NATIONAL INSTITUTES OF HEALTH

CUMULATED INDEX MEDICUS

1997

VOLUME 38 BOOK 3

SUBJECT INDEX
Art–Cas

U.S. DEPARTMENT OF HEALTH
AND HUMAN SERVICES
Public Health Service
National Institutes of Health

NATIONAL LIBRARY OF MEDICINE
8600 Rockville Pike
Bethesda, MD 20894
NIH Publication Number: 98-259

ISSN: 0090-1423

Cumulated Index Medicus

© All or portions of this publication are protected against copying or other reproduction outside of the United States in accordance with the provisions of Article II of the Universal Copyright Convention.

National Library of Medicine Cataloging in Publication

Cumulated Index medicus.
Vol. 1 (Jan.-Dec. 1960)-
--Chicago : American Medical Association ; Washington, D.C. : Supt. of Docs., U.S. G.P.O. [distributor], 1961-
v.

Vols. for 1971-1978 issued as DHEW publication ; no. (NIH) 72-259, etc.; for 1979- as NIH publication ; no. 80-259, etc.
Annual cumulation of the monthly issues of Index medicus.
Continues: Quarterly cumulative Index medicus.
Issues for 1967- include Bibliography of medical reviews.
Vols. for 1965- issued by the National Library of Medicine.

1. Bibliography of Medicine 2. Medicine - indexes I. American Medical Association II. National Library of Medicine (U.S.). III. Bibliography of medical reviews IV. Index medicus V. Series: DHEW publication ; no. (NIH) 72-259, etc. VI. Series: NIH publication ; no. 80-259, etc.

ISSN 0090-1423 = Cumulated Index medicus.

ZW 1 I384

This book is printed on acid-free paper for permanence.

Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 30, 1998.

For sale by the U.S. Government Printing Office
Superintendent of Documents, Mail Stop: SSOP, Washington, DC 20402-9328
ISBN 0-16-049542-3

CUMULATED INDEX MEDICUS 1997

CONTENTS

BOOK 1

Preface v
Index Medicus Citation Format vii
Introduction viii
Materials Indexed viii
The Indexing Operation viii
Subject Headings viii
Subject Heading Changes ix
Arrangement ix
Subject Section ix
Author Section xi
Bibliography of Medical Reviews xi
Access to Articles Cited xii
Interlibrary Loan Policy xii
Other Resources xiv
National Network of Libraries of Medicine xiv
International MEDLARS/MEDLINE Centers xv

MEDICAL SUBJECT HEADINGS (Contents) I-3
Medical Subject Headings 1

JOURNALS INDEXED Abbreviation Listing 1429
Full Title Listing 1529

BOOK 2 Subject Index **A-Ars** 1609

BOOK 3 Subject Index **Art-Cas** 3447

BOOK 4 Subject Index **Cat-De** 5280

BOOK 5 Subject Index **Df-Fil** 7174

BOOK 6 Subject Index **Fim-His** 9065

BOOK 7 Subject Index **Hit-Lh** 10920

BOOK 8 Subject Index **Li-Mu** 12782

BOOK 9 Subject Index **Mv-Pep** 14625

BOOK 10 Subject Index **Per-Rea** 16435

BOOK 11 Subject Index **Reb-St** 18189

BOOK 12 Subject Index **Su-Z** 20080

BOOK 13 Author Index **A-Dif** 21921

BOOK 14 Author Index **Dig-Jeq** 23938

BOOK 15 Author Index **Jer-Mor** 25951

BOOK 16 Author Index **Mos-She** 27971

BOOK 17 Author Index **Shf-Z** 29991

BOOK 18 Bibliography of Medical Reviews **A-H** 1

BOOK 19 Bibliography of Medical Reviews **I-Z** 1177

GSH-depleting agents in arsenite-resistant Chinese hamster ovary cells. Huang RN, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):17–22

PHARMACOLOGY

p70 S6 kinase is activated by sodium arsenite in adult rat cardiomyocytes: roles for phosphatidylinositol 3-kinase and p38 MAP kinase. Wang X, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):207–12

Oxidative and chemical stress mimic insulin by selectively inhibiting the expression of phosphoenolpyruvate carboxykinase in hepatoma cells. Sutherland C, et al. **Diabetes** 1997 Jan;46(1):17–22

The tumor promoter arsenite stimulates AP-1 activity by inhibiting a JNK phosphatase. Cavigelli M, et al. **EMBO J** 1996 Nov 15;15(22):6269–79

Co-amplification of the gamma-glutamylcysteine synthetase gene gsh1 and of the ABC transporter gene pgpA in arsenite-resistant Leishmania tarentolae. Grondin K, et al. **EMBO J** 1997 Jun 2;16(11):3057–65

Inositol phospholipid 3-kinase is activated by cellular stress but is not required for the stress-induced activation of glucose transport in L6 rat skeletal muscle cells. McDowell HE, et al. **Eur J Biochem** 1997 Jul 1;247(1):306–13

Arsenic induces oxidant stress and NF-kappa B activation in cultured aortic endothelial cells. Barchowsky A, et al. **Free Radic Biol Med** 1996;21(6):783–90

Differential activation of ERK, JNK/SAPK and P38/CSBP/RK map kinase family members during the cellular response to arsenite. Liu Y, et al. **Free Radic Biol Med** 1996;21(6):771–81

Effect of arsenite on urea production by long-term cultures of adult rat hepatocytes. Sierra-Santoyo A, et al. **J Appl Toxicol** 1996 Jul-Aug;16(4):281–7

Arsenite induces apoptosis in Chinese hamster ovary cells by generation of reactive oxygen species. Wang TS, et al. **J Cell Physiol** 1996 Nov;169(2):256–68

Mechanisms involved in sodium arsenite-induced apoptosis of human neutrophils. Watson RW, et al. **J Leukoc Biol** 1996 Nov;60(5):625–32

Transkinetoplastidy in arsenite-resistant Leishmania major. Chiang SC, et al. **Mol Biochem Parasitol** 1996 Nov 12; 82(1):121–4

TOXICITY

Interaction of arsenic(III) with nucleotide excision repair in UV-irradiated human fibroblasts. Hartwig A, et al. **Carcinogenesis** 1997 Feb;18(2):399–405

Inhibition of clastogenic effects of arsenic through continued oral administration of garlic extract in mice in vivo. Choudhury AR, et al. **Mutat Res** 1997 Aug 14; 392(3):237–42

Polymerase chain reaction-based deletion analysis of spontaneous and arsenite-enhanced gpt mutants in CHO-AS52 cells. Meng Z, et al. **Mutat Res** 1996 Sep 23; 356(2):255–9

Disruption of microtubule assembly and spindle formation as a mechanism for the induction of aneuploid cells by sodium arsenite and vanadium pentoxide. Ramírez P, et al. **Mutat Res** 1997 Jun;386(3):291–8

Effect of hepatic methyl donor status on urinary excretion and DNA damage in B6C3F1 mice treated with sodium arsenite. Tice RR, et al. **Mutat Res** 1997 Jun;386(3):315–34

Inhibition of poly(ADP-ribose) polymerase by arsenite. Yager JW, et al. **Mutat Res** 1997 Jun;386(3):345–51

Influence of maternal stress on the effects of prenatal exposure to methylmercury and arsenic on postnatal development and behavior in mice: a preliminary evaluation. Colomina MT, et al. **Physiol Behav** 1997 Mar; 61(3):455–9

Arsenic induces overexpression of growth factors in human keratinocytes. Germolec DR, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):308–18

Expression of the 25-kDa heat-shock protein (HSP27) correlates with resistance to the toxicity of cadmium chloride, mercuric chloride, cis-platinum(II)-diammine dichloride, or sodium arsenite in mouse embryonic stem cells transfected with sense or antisense HSP27 cDNA. Wu W, et al. **Toxicol Appl Pharmacol** 1996 Nov; 141(1):330–9

Enhanced arsenite-induced hepatic morphological and biochemical changes in phenobarbital-pretreated rats. Albores A, et al. **Toxicol Pathol** 1996 Mar-Apr; 24(2):172–80

Effects of arsenite pretreatment on the acute toxicity of parathion. Siller FR, et al. **Toxicology** 1997 Jan 15; 116(1-3):59–65

Glutathione peroxidase and catalase modulate the genotoxicity of arsenite. Wang TS, et al. **Toxicology** 1997 Sep 5;121(3):229–37

ARSON see **FIRESETTING BEHAVIOR**

ARSPHENAMINE

HISTORY

The introduction of "606" in New Jersey. Wallhauser HT. **N J Med** 1997 Jul;94(7):43–6

[History of healing; early reception of the anti-syphilitic agent Salvarsan in The Netherlands (1910-1911)] Verhoef P. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2519–23 **(Dut)**

[First results of treatment with salvarsan in Krakow] Maciejasz B. **Przegl Lek** 1996;53(10):763–4 (Eng. Abstr.) **(Pol)**

PHARMACOLOGY

What's in a (compound) name? [letter; comment] Feuer AL. **N C Med J** 1997 Jan-Feb;58(1):7. Comment on: N C Med J 1996 Nov-Dec;57(6):342.

ART

see related
ANATOMY, ARTISTIC
MEDICAL ILLUSTRATION
MEDICINE IN ART

Art glassware and sinonasal cancer: report of three cases. Battista G, et al. **Am J Ind Med** 1996 Jul;30(1):31–5

Using the arts to enhance confluent learning. Peloquin SM. **Am J Occup Ther** 1996 Feb;50(2):148–51

A transfer of technique: from induced song recall to the induced recall of paintings. Díaz de Chumaceiro CL. **Am J Psychoanal** 1996 Sep;56(3):331–6

Skin problems in sugar artists. Bangha E, et al. **Br J Dermatol** 1996 Nov;135(5):772–4

Human figure drawings by schooled and unschooled children in Papua New Guinea. Martlew M, et al. **Child Dev** 1996 Dec;67(6):2743–62

Exposing ourselves to art. Fields S. **Environ Health Perspect** 1997 Mar;105(3):284–9

Safe use of art materials: who is responsible? [letter] Gottsegen M. **Environ Health Perspect** 1997 Jul; 105(7):687–8

Comments on "exposing ourselves to art" [letter] Weiss AL, et al. **Environ Health Perspect** 1997 Jul;105(7):686–7

Art and trauma. Laub D, et al. **Int J Psychoanal** 1995 Oct; 76 (Pt 5):991–1005

Reinstating the person in the professional: reflections on empathy and aesthetic experience. Smyth T. **J Adv Nurs** 1996 Nov;24(5):932–7 (28 ref.)

To see the Thing Itself: the influence of early object loss on the life and art of Edward Weston. Hamilton JW. **J Am Acad Psychoanal** 1995 Winter;23(4):671–91

Experimental evaluation of "The Images Within": an alcohol education and prevention program. Woodside M, et al. **J Drug Educ** 1997;27(1):53–65

Why can't most people draw what they see? Cohen DJ, et al. **J Exp Psychol Hum Percept Perform** 1997 Jun; 23(3):609–21

Motor control differentiates children's from adults' drawings for child and adult judges. Cabe PA, et al. **J Genet Psychol** 1997 Jun;158(2):189–99

Holes and grooves: the contribution of microscopy and taphonomy to the problem of art origins. D'Errico F, et al. **J Hum Evol** 1997 Jul;33(1):1–31

Medicine, the arts and imagination [letter] Evans M, et al. **J Med Ethics** 1997 Aug;23(4):254

Implications of the people = male theory for the interpretation of the Draw-A-Person Test. Merritt RD, et al. **J Pers Assess** 1997 Feb;68(1):211–4

The Hammersmith. Baron JH. **J R Soc Med** 1997 Apr; 90(4):229

Addenbrooke's art and murals. Cannon WG. **J R Soc Med** 1996 Dec;89(12):720

The Isle of Wight embroidery. Eades G. **J R Soc Med** 1996 Oct;89(10):592

Bert Irvin's Hollywood at Chelsea & Westminster Hospital. Loppert S. **J R Soc Med** 1996 Sep;89(9):519–20

The Bird Garden at the West Dorset Hospital. Pitt-Rivers V. **J R Soc Med** 1997 Feb;90(2):113

Some effects of sex, age, and household structure on family drawings of Barbadian children. Payne MA. **J Soc Psychol** 1996 Oct;136(5):567–78

Suicide among artists. Stack S. **J Soc Psychol** 1997 Feb; 137(1):129–30

Medicine and the arts [editorial] Hutchens MP. **JAMA** 1997 Feb 5;277(5):432

Art in hospitals: why is it there and what is it for? Behrman P. **Lancet** 1997 Aug 23;350(9077):584–5

The art of visual neglect. Halligan PW, et al. **Lancet** 1997 Jul 12;350(9071):139–40

Enhanced artistic creativity with temporal lobe degeneration [letter] Miller BL, et al. **Lancet** 1996 Dec 21-28; 348(9043):1744–5

Communicating with children: could you use some help? McElveen KA. **MCN Am J Matern Child Nurs** 1997 Mar-Apr;22(2):108–11

The role of art within the medical setting. Corbat C. **Med Health R I** 1997 Apr;80(4):112–4

The scope of medical informatics as art and science [editorial] Kulikowski CA. **Methods Inf Med** 1996 Sep;35(3):185–8

A celebration of health through art. Rigler M, et al. **Occas Pap R Coll Gen Pract** 1994 Jan;(64):17–20

The inclination of artists to partition line sections in the golden ratio. Macrosson WD, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):707–13

Foreshortening in cube drawings by children and adults. Nicholls AL, et al. **Perception** 1995;24(12):1443–56

On creativity and medicine. Rodenhauser P. **Pharos** 1996 Fall;59(4):2–6

How the blind draw. Kennedy KM. **Sci Am** 1997 Jan; 276(1):76–81

Gender and suicide risk among artists: a multivariate analysis. Stack S. **Suicide Life Threat Behav** 1996 Winter;26(4):374–9

[Physicians for the National Theater (letter)] Hankiss J. **Orv Hetil** 1996 Aug 11;137(32):1786 **(Hun)**

[The phenomenon of deja vu in psychopathology and literature] Farina B, et al. **Minerva Psichiatr** 1996 Jun; 37(2):99–106 (28 ref.) (Eng. Abstr.) **(Ita)**

HISTORY

The artist and defective sight (a book review and commentary). Tannebaum S. **J Am Optom Assoc** 1997 Apr; 68(4):261–4

The college suspended. Gibbs D. **J R Coll Physicians Lond** 1997 May-Jun;31(3):332–5

Art in hospitals [editorial] Baron JH. **J R Soc Med** 1996 Sep; 89(9):482–3

Staffs as walking aids in ancient Egypt and Palestine. Loebl WY, et al. **J R Soc Med** 1997 Aug;90(8):450–4

[20-year anniversary of the Circle of Hungarian Medical Writers and Artists] Hankiss J. **Orv Hetil** 1996 Aug 11; 137(32):1765–9 **(Hun)**

ART THERAPY

Art: an occupation with promise for developing empathy. Peloquin SM. **Am J Occup Ther** 1996 Sep;50(8):655–61 (34 ref.)

Serial self-portrait: a technique to monitor changes in self-concept. Glaister JA. **Arch Psychiatr Nurs** 1996 Oct; 10(5):311–8

Differential aspects of sandplay with 10- and 11-year-old children. Zinni VR. **Child Abuse Negl** 1997 Jul;21(7):657–68

Indicators of abuse or neglect in preschool children's drawings. Carpenter M, et al. **J Psychosoc Nurs Ment Health Serv** 1997 Apr;35(4):10–7

The Isle of Wight embroidery. Eades G. **J R Soc Med** 1996 Oct;89(10):592

Symbol, metaphor and story. The function of group art therapy in palliative care. Mayo S. **Palliat Med** 1996 Jul; 10(3):209–16

[Pictures by pregnant patients with premature labor. Initial experiences with art therapy] Herborn E, et al. **Z Geburtshilfe Neonatol** 1996 Jul-Aug;200(4):151–4 (Eng. Abstr.) **(Ger)**

[Art therapy] Takaesu Y. **Seishin Shinkeigaku Zasshi** 1996; 98(10):694–700 **(Jpn)**

STANDARDS

Suicidal adolescent perceptions after an art future image intervention. Walsh SM, et al. **Appl Nurs Res** 1997 Feb; 10(1):19–26

ART-TRS GENE PROTEIN, HIV see **GENE PRODUCTS, REV**

ART-TRS GENES see **GENES, REV**

ARTEMIA

Accumulation of trimethoprim, sulfamethoxazole, and N-acetylsulfamethoxazole in fish and shrimp fed medicated Artemia franciscana. Chair M, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1649–52

Brine shrimp bioassay for biological activity of medicinal plants used in traditional medicines in Tanzania. Massele AY, et al. **East Afr Med J** 1995 Oct;72(10):661–3

CHEMISTRY

Determination of vitamin E in aquatic organisms by high-performance liquid chromatography with fluorescence detection. Huo JZ, et al. **Anal Biochem** 1996 Nov 1;242(1):123–8

Purification, structure and in vitro molecular-chaperone activity of Artemia p26, a small heat-shock/alpha-crystallin protein. Liang P, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):225–32

DRUG EFFECTS

Effect of endosulfan pesticide on the oxygen consumption rates of nauplii of different Spanish strains of Artemia. Varó I, et al. **J Environ Sci Health B** 1997 May;32(3):363–75

EMBRYOLOGY

Transcriptional regulation during the activation and development of Artemia franciscana encysted embryos. Martinez-Lamparero A, et al. **Int J Dev Biol** 1996;Suppl 1:91S–92S

Molecular characterization of a small heat shock/alpha-crystallin protein in encysted Artemia embryos. Liang P, et al. **J Biol Chem** 1997 Jul 25; 272(30):19051–8

Profiles of nuclear and mitochondrial encoded mRNAs in developing and quiescent embryos of Artemia franciscana. Hardewig I, et al. **Mol Cell Biochem** 1996 May 24; 158(2):139–47

ENZYMOLOGY

Protein kinases in mitochondria of the invertebrate Artemia franciscana. Vallejo CG, et al. **Arch Biochem Biophys** 1997

ARTEMIA

Mar 1;339(1):9-16

Polymorphism and structure of the gene coding for the alpha 1 subunit of the Artemia franciscana Na/K-ATPase. García-Sáez A, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):509-18

GTP:GTP guanylyltransferase activity from encysted embryos of the brine shrimp Artemia is associated with a single 110 kDa polypeptide. Cartwright JL, et al. **Biochem Soc Trans** 1996 Aug;24(3):419S

GENETICS

Polymorphism and structure of the gene coding for the alpha 1 subunit of the Artemia franciscana Na/K-ATPase. García-Sáez A, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):509-18

Artemia mitochondrial genome: molecular biology and evolutive considerations. Garesse R, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jul; 117(3):357-66 (74 ref.)

Satellite DNA from the brine shrimp Artemia affects the expression of a flanking gene in yeast. Maiorano D, et al. **Gene** 1997 Apr 11;189(1):13-8

Transcriptional regulation during the activation and development of Artemia franciscana encysted embryos. Martinez-Lamparero A, et al. **Int J Dev Biol** 1996;Suppl 1:91S-92S

Actin gene structure in two Artemia species, A. franciscana and A. parthenogenetica. Ortega MA, et al. **J Mol Evol** 1996 Sep;43(3):224-35

METABOLISM

The biosynthesis of omega 3 fatty acids from 18:2 omega 6 in Artemia spp. Ito MK, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):69-76

PHYSIOLOGY

Chemoreceptive control of feeding processes in hydra. Grosvenor W, et al. **Chem Senses** 1996 Jun;21(3):313-21

ARTEMISIA

Poison on line--acute renal failure caused by oil of wormwood purchased through the Internet. Weisbord SD, et al. **N Engl J Med** 1997 Sep 18;337(12):825-7

Effects of feeding Artemisia filifolia and Helenium flexuosum on rabbit cytochrome P450 isozymes. Eissa FZ, et al. **Vet Hum Toxicol** 1996 Feb;38(1):19-23

CHEMISTRY

Bioactive constituents of Chinese natural medicines. I. New sesquiterpene ketones with vasorelaxant effect from Chinese moxa, the processed leaves of Artemisia argyi Levl. et Vant.: moxartenone and moxartenolide. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep;44(9):1656-62

Cytotoxic components of Artemisia princeps. Ryu SY, et al. **Planta Med** 1997 Aug;63(4):384-5

IMMUNOLOGY

Allergy to foods in patients monosensitized to Artemisia pollen. Garcia Ortiz JC, et al. **Allergy** 1996 Dec; 51(12):927-31

METABOLISM

Sulfated polysaccharide from the leaves of Artemisia Princeps activates heparin cofactor II independently of the Lys173 and Arg189 residues of heparin cofactor II. Hayashi T, et al. **Thromb Res** 1997 Jul 1;87(1):105-12

ARTERIAL CATHETERIZATION, PERIPHERAL see **CATHETERIZATION, PERIPHERAL**

ARTERIAL LINES see **CATHETERS, INDWELLING**

ARTERIAL OBSTRUCTIVE DISEASES see **ARTERIAL OCCLUSIVE DISEASES**

ARTERIAL OCCLUSIVE DISEASES

Preoperative risk assessment for carotid occlusion by transcranial Doppler ultrasound. Schneweis S, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):485-9

Anticardiolipin antibodies and the risk of recurrent thrombo-occlusive events and death. The Antiphospholipid Antibodies and Stroke Study Group (APASS). **Neurology** 1997 Jan;48(1):91-4

Diseases of the brachiocephalic arteries and their management. Overview. Bower TC, et al. **Semin Vasc Surg** 1996 Jun;9(2):71-6

IgG anticardiolipin antibody titer > 40 GPL and the risk of subsequent thrombo-occlusive events and death. A prospective cohort study. Levine SR, et al. **Stroke** 1997 Sep;28(9):1660-5

Celiac artery compression syndromes. Bech FR. **Surg Clin North Am** 1997 Apr;77(2):409-24 (39 ref.)

Popliteal artery entrapment syndrome: the role of early diagnosis and treatment. Marzo L, et al. **Surgery** 1997 Jul; 122(1):26-31

[Left subclavian artery total occlusion] Anzai T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):479-80 (7 ref.) **(Jpn)**

[Popliteal artery entrapment syndrome] Ishimaru S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):494-6 (9 ref.) **(Jpn)**

[Acute arterial occlusive disease] Ishimaru S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):447-50 (13 ref.) **(Jpn)**

[Juxta renal aortic occlusion] Kosuga K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):345-7 (13 ref.) **(Jpn)**

BLOOD

Potential significance of circulating E-selectin [editorial; comment] Smith CW. **Circulation** 1997 Apr 15;95(8):1986-8 . Comment on: Circulation 1997 Apr 15;95(8):2027-31.

The microvasculature in myeloproliferative disease. A study using retinal fluorescein angiography. Dapling RB, et al. **Clin Lab Haematol** 1996 Dec;18(4):277-9

Raised erythrocyte polyamine levels in non-insulin-dependent diabetes mellitus with great vessel disease and albuminuria. Seghieri G, et al. **Diabetes Res Clin Pract** 1997 Jul;37(1):15-20

Changes in platelet count, coagulation and fibrinogen associated with elective repair of asymptomatic abdominal aortic aneurysm and aortic reconstruction for occlusive disease. Bradbury A, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):375-80

Thrombosis and restenosis after peripheral angioplasty: does acute 111indium-platelet accumulation predict angioplasty outcome? Nyamekye I, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):388-93

Hypercoagulable abnormalities and postoperative failure of arterial reconstruction. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):363-70

Platelets of patients with peripheral arterial disease demonstrate a hypersensitive response to heparin. Reininger CB, et al. **Int Angiol** 1996 Sep;15(3):207-14

Uric acid changes in serum during different forms of hepatic vascular inflow occlusion. Kogure K, et al. **Life Sci** 1997; 60(20):1781-91

Hyperhomocysteinemia as a risk factor for arterial and venous disease. A review of evidence and relevance. Boers GH. **Thromb Haemost** 1997 Jul;78(1):520-2 (25 ref.)

Mild hyperhomocysteinemia and hemostatic factors in patients with arterial vascular diseases. Freyburger G, et al. **Thromb Haemost** 1997 Mar;77(3):466-71

Defective interaction between von Willebrand factor and platelet glycoprotein Ib--a familial study of peripheral arterial occlusive disease. Kauhanen P, et al. **Thromb Haemost** 1997 May;77(5):849-55

Increased circulating plasminogen activator inhibitor-1 in patients with patent femoro-distal venous bypass. Peltonen S, et al. **Thromb Res** 1996 May 15;82(4):369-77

[Modification of some prothrombotic indices after treatment with iloprost in arterial disease patients] Ferlito S, et al. **Minerva Cardioangiol** 1996 Dec;44(12):645-8 (Eng. Abstr.) **(Ita)**

[Hemostatic changes in middle-aged and elderly patients with acute arterial obstruction] Karpenko LN. **Klin Khir** 1996;(7):16-9 **(Rus)**

CHEMICALLY INDUCED

Arterial occlusion in patients with peripheral vascular disease treated with platinum-based regimens for lung cancer. Mathews J, et al. **Cancer Chemother Pharmacol** 1997; 40(1):19-22

[Occlusion of finger arteries and thrombotic angiopathy of the retina during adjuvant tamoxifen therapy of a mammary carcinoma] Schlich B, et al. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):783-6 (Eng. Abstr.) **(Ger)**

CLASSIFICATION

Variability of magnetic resonance angiography and computed tomography angiography in grading middle cerebral artery stenosis using the unweighted kappa statistic [letter; comment] Lavados P, et al. **Stroke** 1996 Dec;27(12):2340 . Comment on: Stroke 1996 Jun;27(6):1084-7.

COMPLICATIONS

Re: embolization of pancreaticoduodenal aneurysms associated with occlusive disease of the celiac artery [letter; comment] Savastano S, et al. **Abdom Imaging** 1996 Sep-Oct; 21(5):475-6. Comment on: Abdom Imaging 1995 Sep-Oct;20(5):470-3.

Partial vascular occlusion causing pseudocompartment syndrome of the leg. A case report. Sammarco GJ, et al. **Am J Sports Med** 1997 May-Jun;25(3):409-11

Abdominal wall hernias with abdominal aortic aneurysmal versus aortoiliac occlusive disease [letter; comment] La Morte WW, et al. **Am J Surg** 1997 May;173(5):457-8. Comment on: Am J Surg 1995 Dec;170(6):572-5; discussion 575-6.

Survival following cardiogenic shock caused by acute left main coronary artery total occlusion. A case report and review of the literature. Itoh T, et al. **Angiology** 1997 Feb; 48(2):163-71 (33 ref.)

The use of intra-arterial urokinase in the management of hand ischemia secondary to palmar and digital arterial occlusion. Wheatley MJ, et al. **Ann Plast Surg** 1996 Oct;37(4):356-62; discussion 362-3

Occlusion of unilateral carotid artery in Down syndrome. Gaggero R, et al. **Brain Dev** 1996 Jan-Feb;18(1):81-3

The phospholipase A2 inhibitor, quinacrine, reduces infarct size in rats after transient middle cerebral artery occlusion. Estevez AY, et al. **Brain Res** 1997 Mar 28;752(1-2):203-8

Sensorimotor impairments in rats with cerebral infarction, induced by unilateral occlusion of the left middle cerebral artery: strain differences and effects of the occlusion site. van der Staay FJ, et al. **Brain Res** 1996 Oct 7;735(2):271-84

C57BL/6 strain is most susceptible to cerebral ischemia following bilateral common carotid occlusion among seven mouse strains: selective neuronal death in the murine transient forebrain ischemia. Yang G, et al. **Brain Res** 1997 Mar 28;752(1-2):209-18

Hypercoagulable abnormalities and postoperative failure of arterial reconstruction. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):363-70

Distal arterial occlusive disease in diabetes is related to medial arterial calcification. Chantelau E, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:11-3

Association between coronary occlusions and myocardial infarcts. The INTACT investigators. International Nifedipine Trial on Antiatherosclerotic Therapy. Jost S, et al. **Int J Cardiol** 1996 Jul 26;55(2):143-8

Pre-operative coronary revascularization: yes or no [clinical conference] Einav S, et al. **Isr J Med Sci** 1997 Jan; 33(1):74-7

Ocular ischemic syndrome as initial manifestation of bilateral carotid occlusive disease. Bennett LW. **J Am Optom Assoc** 1997 Apr;68(4):250-60

Inferior pancreaticoduodenal artery aneurysm associated with common hepatic artery occlusion. Bracale G, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):579-81

Intravenous infusion of adrenomedullin and increase in regional cerebral blood flow and prevention of ischemic brain injury after middle cerebral artery occlusion in rats. Dogan A, et al. **J Cereb Blood Flow Metab** 1997 Jan; 17(1):19-25

Renal autotransplantation for renovascular hypertension caused by midaortic syndrome. Bleacher J, et al. **J Pediatr Surg** 1997 Feb;32(2):248-50; discussion 250-1

Relationship between cavernosal ischemia and corporal veno-occlusive dysfunction in an animal model. Azadzoi KM, et al. **J Urol** 1997 Mar;157(3):1011-7

Buttock claudication from isolated stenosis of the gluteal artery. Batt M, et al. **J Vasc Surg** 1997 Mar;25(3):584-6

Adult minimal change disease presenting with bilateral pulmonary artery thromboses--a reversible complication. Kao SC, et al. **Nephrol Dial Transplant** 1996 Dec; 11(12):2485-8

Renal artery embolization after back massage in a patient with aortic occlusion. Mikhail A, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):797-8

Carotid occlusive disease and stroke risk in coronary artery bypass graft surgery. Dashe JF, et al. **Neurology** 1997 Sep; 49(3):678-86

Rotational vertebral artery occlusion: a mechanism of vertebrobasilar insufficiency. Kuether TA, et al. **Neurosurgery** 1997 Aug;41(2):427-32; discussion 432-3 (26 ref.)

Breathlessness and a widened mediastinum. Bruce-Jones PN, et al. **Postgrad Med J** 1997 Mar;73(857):183-5

Sequential occlusion of the central retinal artery and posterior ciliary artery in a patient with diabetes mellitus. Phillips WB 2nd, et al. **Retina** 1997;17(1):67-70

Cerebral infarcts related to isolated middle cerebral artery stenosis. Lyrer PA, et al. **Stroke** 1997 May;28(5):1022-7

[Arterial complications of Behcet's disease. Report of 13 cases] Bensaid Y, et al. **J Mal Vasc** 1997;22(1):24-8 (25 ref.) (Eng. Abstr.) **(Fre)**

[Global amyotrophy of a limb of ischemic origin (letter)] Masmoudi K, et al. **Rev Med Interne** 1996;17(9):772-3 **(Fre)**

[Cystic degeneration of the adventitia of the popliteal artery after PTA of the superficial femoral artery] Lastdrager WB, et al. **Vasa** 1996;25(1):84-9 (Eng. Abstr.) **(Ger)**

[A case of left subclavian artery occlusion with transient ischemic attacks probably in the internal carotid artery system] Mochizuki A, et al. **Rinsho Shinkeigaku** 1997 Mar; 37(3):257-60 (Eng. Abstr.) **(Jpn)**

[Effect of sufan, lidocaine and their combination on the course of early occlusive and reperfusion arrhythmias in cats] Galenko-Iaroshevskiĭ Pa, et al. **Biull Eksp Biol Med** 1997 May;123(5):545-7 **(Rus)**

[Fever of unknown origin and subacute occurrence of ischemic events in upper limbs] Moro MJ, et al. **Rev Clin Esp** 1996 Jan;196(1):51-2 **(Spa)**

[Untreatable hiccup as un unusual sign in a rostral occlusion syndrome of the basilar artery] Revilla B, et al. **Rev Neurol** 1996 Mar;24(127):306-10 (Eng. Abstr.) **(Spa)**

[The clinical characteristics of endotoxicosis in occlusive diseases of the major arteries of the extremities] Mamchych VI, et al. **Klin Khir** 1996;(7):15-6 **(Ukr)**

DIAGNOSIS

Intracranial stenoocclusive disease: MR angiography with magnetization transfer and variable flip angle. Fürst G, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1749-57

MR detection of secondary changes remote from ischemia: preliminary observations after occlusion of the middle cerebral artery in rats. Nakane M, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):945-50

Cardiac-gated two-dimensional phase-contrast MR

angiography of lower extremity occlusive disease. Steffens JC, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):749–54

Distinction between open and occluded infarct–related arteries using contrast–enhanced magnetic resonance imaging. Dendale P, et al. **Am J Cardiol** 1997 Aug 1; 80(3):334–6

Traumatic occlusion of the external iliac artery in a racing cyclist: a cause of ill defined leg pain. Taylor AJ, et al. **Br J Sports Med** 1997 Jun;31(2):155–6

Dynamic obstruction of the external iliac artery in endurance athletes and its relationship to endothelial function: the case of a long distance runner. Wright IA, et al. **Br J Sports Med** 1997 Jun;31(2):156–8 (10 ref.)

Evaluation of peripheral vascular system disorders in vascular symptom—free Behçet's disease. Kuzu A, et al. **Cardiovasc Surg** 1996 Jun;4(3):381–3

Frequency of a positive modified Allen's test in 1,000 consecutive patients undergoing cardiac catheterization. Benit E, et al. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):352–4

Internal carotid occlusion associated with migraine syndrome: a case study of a 22–year–old female. Micieli G, et al. **Funct Neurol** 1996 Jan–Feb;11(1):45–51

Popliteal artery entrapment syndrome: diagnosis and management. Porcellini M, et al. **G Chir** 1997 Apr; 18(4):182–6

Analysis of laser Doppler flux motion in man: comparison of autoregressive modelling and fast Fourier transformation. Weidenhagen R, et al. **Int J Microcirc Clin Exp** 1996 Mar–Apr;16(2):64–73

The diagnostic value of the measurement of the ankle–brachial systolic pressure index in primary health care. Stoffers HE, et al. **J Clin Epidemiol** 1996 Dec; 49(12):1401–5

"Pseudoocclusion" of the internal carotid artery: a pitfall on intracranial MRA. Okamoto K, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):831–3

Diagnosing peripheral arterial occlusive disease. Zamorski M. **J Fam Pract** 1997 Apr;44(4):340–1

Gadolinium–enhanced breath–hold three–dimensional time–of–flight MR angiography of the abdominal and pelvic vessels: the value of ultrafast MP–RAGE sequences. Yamashita Y, et al. **J Magn Reson Imaging** 1997 Jul–Aug; 7(4):623–8

The diagnosis and treatment of acute aortic occlusions. Buth J, et al. **J Mal Vasc** 1996;21(3):133–5 (11 ref.)

The temporal evolution of MRI tissue signatures after transient middle cerebral artery occlusion in rat. Jiang Q, et al. **J Neurol Sci** 1997 Jan;145(1):15–23

Peripheral ischemic occlusive arterial disease: comparison of color Doppler sonography and angiography. Pinto F, et al. **J Ultrasound Med** 1996 Oct;15(10):697–704; quiz 705–6

Iliac artery evaluation with two–dimensional time–of–flight MR angiography: update. Snidow JJ, et al. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):213–20

Magnetic resonance angiography in the management of lower extremity arterial occlusive disease: a prospective study. Cambria RP, et al. **J Vasc Surg** 1997 Feb;25(2):380–9

High incidence of restenosis/reocclusion of stents in the percutaneous treatment of long–segment superficial femoral artery disease after suboptimal angioplasty. Gray BH, et al. **J Vasc Surg** 1997 Jan;25(1):74–83

A novel case of pediatric abdominal aortic aneurysm with visceral arterial stenoses. Kim LJ, et al. **J Vasc Surg** 1997 Apr;25(4):778–83

Contrast–enhanced MRI with gadodiamide injection in rat disease models. Yamada K, et al. **J Vet Med Sci** 1996 Apr; 58(4):291–5

Diagnostic value of signs and symptoms associated with peripheral arterial occlusive disease seen in general practice: a multivariable approach. Stoffers HE, et al. **Med Decis Making** 1997 Jan–Mar;17(1):61–70

Magnetic resonance imaging detection of vascular occlusion of a pedicled muscle flap. Hui K, et al. **Microsurgery** 1996; 17(6):306–12

Non–invasive diagnosis of traumatic occlusion of extracranial internal carotid artery by magnetic resonance angiography. Göçer AI, et al. **Neurosurg Rev** 1996;19(4):281–3

Bone marrow transplantation in children. Imaging assessment of complications. Benya EC, et al. **Pediatr Clin North Am** 1997 Jun;44(3):741–61 (30 ref.)

Evaluation of the aortoiliac and renal arteries: comparison of breath–hold, contrast–enhanced, three–dimensional MR angiography with conventional catheter angiography. Hany TF, et al. **Radiology** 1997 Aug;204(2):357–62

Peripheral vascular disease evaluated with reduced–dose gadolinium–enhanced MR angiography. Rofsky NM, et al. **Radiology** 1997 Oct;205(1):163–9

MR imaging of cystic adventitial disease of the popliteal artery: 2 cases. Decleir P, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Feb;166(2):167–9 (8 ref.)

MRA flow quantification in patients with a symptomatic internal carotid artery occlusion. The Dutch EC–IC Bypass Study Group. van Everdingen KJ, et al. **Stroke** 1997 Aug; 28(8):1595–600

Fibrinolytic and inflammatory markers for arterial occlusion: the evolving epidemiology of thrombosis and hemostasis. Ridker PM. **Thromb Haemost** 1997 Jul;78(1):53–9 (86 ref.)

ROC analysis of noninvasive tests for peripheral arterial disease. Lijmer JG, et al. **Ultrasound Med Biol** 1996; 22(4):391–8

Non–invasive determination of dermal hemoglobin oxygenation and concentration in patients with peripheral arterial occlusive disease. Thum J, et al. **Vasa** 1997; 26(1):11–7

[MR angiography of the pelvic–leg blood vessels: current status and perspectives] Vosshenrich R, et al. **Aktuelle Radiol** 1997 Jan;7(1):14–8 (24 ref.) (Eng. Abstr.) **(Ger)**

[Chronic, pressure–induced compartment syndrome. A differential diagnosis for peripheral arterial occlusive disease] Stiegler H, et al. **Dtsch Med Wochenschr** 1997 May 30;122(22):723–7 (17 ref.) **(Ger)**

[Atrophic polychondritis with multiple arterial occlusions] Skaria AM, et al. **Hautarzt** 1997 Jun;48(6):420–3 (21 ref.) (Eng. Abstr.) **(Ger)**

[Phase–contrast MR angiography of the lower extremity. Comparison of methods and clinical application] Reimer P, et al. **Radiologe** 1997 Jul;37(7):572–8 (Eng. Abstr.) **(Ger)**

[Value of impedance rheography as a screening method in comparison with Doppler index in peripheral arterial occlusive disease] Quittan M, et al. **Vasa** 1997;26(1):29–32 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Progesterone is neuroprotective after transient middle cerebral artery occlusion in male rats. Jiang N, et al. **Brain Res** 1996 Sep 30;735(1):101–7

Pharmacological preconditioning of ischaemia. Laghi Pasini F, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb; 17(1):73–84

Low–dose intermittent urokinase therapy in chronic symptomatic end–stage arterial disease—clinical relevance for patients with coronary artery disease or peripheral arterial occlusive disease. Leschke M, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb;17(1):59–66 (51 ref.)

Oral naftidrofuryl. A review of its pharmacology and therapeutic use in the management of peripheral occlusive arterial disease. Barradell LB, et al. **Drugs Aging** 1996 Apr; 8(4):299–322 (136 ref.)

Iloprost effects on phagocytes in patients suffering from ischaemic diseases: in vivo evidence for down–regulation of alpha M beta 2 integrin. Mazzone A, et al. **Eur J Clin Invest** 1996 Oct;26(10):860–6

Technetium–99m sestamibi leg scintigraphy for non–invasive assessment of propionyl–L–carnitine induced changes in skeletal muscle metabolism. Cittanti C, et al. **Eur J Nucl Med** 1997 Jul;24(7):762–6

State of the art—treatment of peripheral occlusive arterial disease (POAD) with drugs vs. vascular reconstruction or amputation. Haustein KO. **Int J Clin Pharmacol Ther** 1997 Jul;35(7):266–74 (101 ref.)

Reduction by indobufen of neutrophil activation in peripheral arterial occlusive disease. Chello M, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):417–23

Meta–analysis of some results of clinical trials on sulodexide therapy in peripheral occlusive arterial disease. Gaddi A, et al. **J Int Med Res** 1996 Sep–Oct;24(5):389–406

Thrombolysis in the management of limb arterial occlusion. Towards a consensus interim report. Working Party on Thrombolysis in the Management of Limb Ischaemia. **J Intern Med** 1996 Dec;240(6):343–55 (70 ref.)

Administration of a competitive NMDA antagonist MDL–100,453 reduces infarct size after permanent middle cerebral artery occlusion in rat. Jiang N, et al. **J Neurol Sci** 1996 Jun;138(1–2):36–41

Comparison of streptokinase and urokinase in local thrombolysis of peripheral arterial occlusions for lower limb salvage. Dubé M, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):587–93 (25 ref.)

Long–term beneficial effects of BW619C89 on neurological deficit, cognitive deficit and brain damage after middle cerebral artery occlusion in the rat. Smith SE, et al. **Neuroscience** 1997 Apr;77(4):1123–35

Prediction of hemorrhagic complications after thrombolytic therapy for middle cerebral artery occlusion: value of pre– and post–therapeutic computed tomographic findings and angiographic occlusive site. Yokogami K, et al. **Neurosurgery** 1996 Dec;39(6):1102–7

Local photodynamic therapy reduces tissue hyperplasia in an experimental restenosis model. Gonschior P, et al. **Photochem Photobiol** 1996 Nov;64(5):758–63

Treatment of patients with peripheral arterial occlusive disease Fontaine stage III and IV with intravenous iloprost: an open study in 900 patients. Staben P, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 May; 54(5):327–33

CP–0597, a selective bradykinin B2 receptor antagonist, inhibits brain injury in a rat model of reversible middle cerebral artery occlusion. Relton JK, et al. **Stroke** 1997 Jul;28(7):1430–6

Urokinase thrombolysis as initial therapy for acute and non–acute ischemic extremities. Byrne D, et al. **Va Med Q** 1997 Winter;124(1):41–4

Beta–blockers and nitrates in patients with peripheral arterial occlusive disease: long–term findings. Schweizer J, et al. **Vasa** 1997;26(1):43–6

Treatment with L–arginine is likely to stimulate generation of nitric oxide in patients with peripheral arterial obstructive disease. Gryglewski RJ, et al. **Wien Klin Wochenschr** 1996;108(4):111–6

[Local intra–arterial thrombolysis in acute ischemia of an extremity] Enevoldsen MT, et al. **Ugeskr Laeger** 1996 Sep 2;158(36):5011–4 (29 ref.) (Eng. Abstr.) **(Dan)**

[Thrombolytic therapy in acute lower extremity ischemia] Rørdam P, et al. **Ugeskr Laeger** 1996 Sep 2;158(36):5018–21 (Eng. Abstr.) **(Dan)**

[Use of antithrombotic agents in peripheral arterial diseases] Wütschert R, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1551–5 (23 ref.) (Eng. Abstr.) **(Fre)**

[Local fibrinolytic therapy of arterial occlusions of the lower extremity: initial success and clinical outcome] Müller–Lung U, et al. **Aktuelle Radiol** 1996 Nov;6(6):325–9 (Eng. Abstr.) **(Ger)**

[Oral anticoagulation in activated protein C resistance?] Stiegler H. **Dtsch Med Wochenschr** 1996 Dec 20; 121(51–52):1619 **(Ger)**

[Modified manual rt–PA pulse–spray lysis in occlusions of leg arteries and femoro–popliteal bypasses] Müller–Hülsbeck S, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):557–62 (Eng. Abstr.) **(Ger)**

[Practice guideline—peripheral arterial occlusive disease. Drug Committee of the German Medical Association] **Z Arztl Fortbild Qualitatssich** 1997 Jul;91(4):385–7 **(Ger)**

[Antithrombotic therapy of arterial diseases (letter)] Jakab L. **Orv Hetil** 1997 Apr 13;138(15):963–4 **(Hun)**

[Current applications and perspectives of thrombolytic therapy in peripheral arterial diseases and deep venous thrombosis] Agnelli G. **Cardiologia** 1995 Dec;40(12 Suppl 1):345–9 (27 ref.) **(Ita)**

[Did the arrival of prostanoids modify therapeutic indications in peripheral obstructive arteriopathies? Considerations based on our experience] Cardia G, et al. **G Chir** 1997 May; 18(5):297–300 (Eng. Abstr.) **(Ita)**

[Short– and long–term evaluation of treatment of critical ischemia of the lower lim with PGE1 (alprostadyl alpha–cyclodestrine)] Amitrano M, et al. **Minerva Cardioangiol** 1996 Jul–Aug;44(7–8):391–6 (Eng. Abstr.) **(Ita)**

[Intra–arterial thrombolysis in peripheral bypass and arterial occlusions. Results and predictive factors for thrombolysis] Sandbaek G, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20; 116(25):3000–4 (Eng. Abstr.) **(Nor)**

[Intra–arterial thrombolysis in peripheral bypass and arterial occlusions. Preparation and practical procedure] Sandbaek G, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20; 116(25):3011–3 (Eng. Abstr.) **(Nor)**

[Local thrombolytic treatment of peripheral arterial thrombosis and embolism] Staxrud LE, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):2996–9 (Eng. Abstr.) **(Nor)**

ECONOMICS

Same–day admissions and other cost–saving strategies for elective aortoiliac surgery. Calligaro KD, et al. **J Vasc Surg** 1997 Jan;25(1):141–4

ENZYMOLOGY

Elevations of tissue–type plasminogen activator and differential expression of urokinase–type plasminogen activator in diseased aorta. Shireman PK, et al. **J Vasc Surg** 1997 Jan;25(1):157–64

Sequence analysis of the coding region of human methionine synthase: relevance to hyperhomocysteinaemia in neural–tube defects and vascular disease. van der Put NM, et al. **QJM** 1997 Aug;90(8):511–7

Transgenic rats as models for studying the role of ornithine decarboxylase expression in permanent middle cerebral artery occlusion. Lukkarinen J, et al. **Stroke** 1997 Mar; 28(3):639–45

EPIDEMIOLOGY

Intracranial vertebral artery disease in the New England Medical Center Posterior Circulation Registry. Müller–Küppers M, et al. **Eur Neurol** 1997;37(3):146–56

Association between coronary occlusions and myocardial infarcts. The INTACT investigators. International Nifedipine Trial on Antiatherosclerotic Therapy. Jost S, et al. **Int J Cardiol** 1996 Jul 26;55(2):143–8

The prevalence of asymptomatic and unrecognized peripheral arterial occlusive disease. Stoffers HE, et al. **Int J Epidemiol** 1996 Apr;25(2):282–90

Breast arterial calcifications: association with diabetes mellitus and cardiovascular mortality. Work in progress. Kemmeren JM, et al. **Radiology** 1996 Oct;201(1):75–8

The mutation Ala677—>Val in the methylene tetrahydrofolate reductase gene: a risk factor for arterial disease and venous thrombosis. Arruda VR, et al. **Thromb Haemost** 1997 May;77(5):818–21

Hepatic artery stenosis after liver transplantation—incidence, presentation, treatment, and long term outcome. Abbasoglu O, et al. **Transplantation** 1997 Jan 27;63(2):250–5

[Angiographic findings among Ecuadorian metis population with occlusive cerebrovascular disease of the anterior circulation] del Brutto OH, et al. **Rev Neurol** 1997 Jan; 25(137):40–3 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Racial differences in operation for peripheral vascular disease: results of a population–based study. Brothers TE,

et al. **Cardiovasc Surg** 1997 Feb;5(1):26–31

ETIOLOGY

Occlusion of the anterior cerebral artery after Gamma Knife irradiation in a rat. Kamiryo T, et al.
Acta Neurochir (Wien) 1996;138(8):983–90; discussion 990–1

Lower extremity arterial occlusions in young patients with Crohn's colitis and premature atherosclerosis: report of six cases. Levy PJ, et al. **Am J Gastroenterol** 1997 Mar; 92(3):494–7

Lower extremity arterial disease in sports. Abraham P, et al. **Am J Sports Med** 1997 Jul–Aug;25(4):581–4 (40 ref.)

Congenital total lipodystrophy and peripheral pulmonary artery stenosis. Uzun O, et al. **Arch Dis Child** 1997 May; 76(5):456–7

Effect of the dietary fat type on arterial thrombosis tendency: systematic studies with a rat model. Hornstra G, et al. **Atherosclerosis** 1997 May;131(1):25–33

Elevated lipoprotein(a) and increased incidence of restenosis after femoropopliteal PTA. Rationale for the higher risk of recurrence in females? Maca T, et al. **Atherosclerosis** 1996 Nov 15;127(1):27–34

A complication of intra-arterial shunting during carotid endarterectomy [letter] Dyer MW, et al. **Br J Anaesth** 1996 Nov;77(5):699

Management of arterial occlusive disease following radiation therapy. Andros G, et al. **Cardiovasc Surg** 1996 Apr; 4(2):135–42

Incidence and outcome of radial artery occlusion following transradial artery coronary angioplasty. Stella PR, et al. **Cathet Cardiovasc Diagn** 1997 Feb;40(2):156–8

Predictors of the presence and extent of peripheral arterial occlusive disease. Drexel H, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II199–205

Obstruction of the left pulmonary artery by aortic arch aneurysm. Miroult L, et al. **Clin Nucl Med** 1996 Dec; 21(12):984–6

Subclavian artery stenosis presenting as posterior cerebrovascular events after adjuvant radiotherapy for breast cancer. Lewis J, et al.
Clin Oncol (R Coll Radiol) 1997;9(2):122–3

Does sequential balloon injury of an artery lead to a different outcome than a single injury? An experimental study of angioplasty. Stadius ML, et al. **Coron Artery Dis** 1996 Mar; 7(3):247–55

Coronary intervention: risk stratification and management of abrupt coronary occlusion. de Feyter PJ, et al.
Eur Heart J 1995 Nov;16 Suppl L:97–103 (51 ref.)

Basilar artery occlusion associated with anabolic steroid abuse in a 17-year-old bodybuilder. Pálfi S, et al.
Eur Neurol 1997;37(3):190–1

Left atrial myxoma causing ophthalmic artery occlusion. Rafuse PE, et al. **Eye** 1997;11 (Pt 1):25–9

Fatal occlusion of the left coronary main stem by a fragment from the femoral artery: a previously unreported complication of cardiac catheterization. Veijola M, et al. **Forensic Sci Int** 1997 Aug 4;88(2):111–6

Femoral artery occlusion following pelvic cancer surgery. Hamilton CA, et al. **Gynecol Oncol** 1996 Oct;63(1):151–3

Arterial occlusion complicating treatment of gynecologic cancer: a case series. Levenback C, et al.
Gynecol Oncol 1996 Oct;63(1):40–6

Mild hyperhomocysteinemia and arterial occlusive disease [editorial] Selhub J. **Haematologica** 1997 Mar–Apr; 82(2):129–32 (36 ref.)

Case 2—1997. Aorto-iliac occlusion and rhabdomyolysis after coronary artery revascularization [clinical conference] Menon G, et al. **J Cardiothorac Vasc Anesth** 1997 Apr; 11(2):242–5

Management of radiation-induced occlusive arterial disease: a reassessment. Mellière D, et al.
J Cardiovasc Surg (Torino) 1997 Jun;38(3):261–9

Splenic artery occlusion masking portal hypertension. Bayraktar Y, et al. **J Clin Gastroenterol** 1996 Jun; 22(4):326–8

Microvascular solution for vascular complication in surgery for Dupuytren's contracture: a case report. Chung KC, et al. **J Hand Surg [Am]** 1996 Jul;21(4):711–3

Progressive cerebral occlusive disease after hypothalamic astrocytoma radiation therapy. Sinsawaiwong S, et al.
J Med Assoc Thai 1997 May;80(5):338–42

Rotational occlusion of the vertebral artery caused by transverse process hyperrotation and unilateral apophyseal joint subluxation. Case report. Kawaguchi T, et al.
J Neurosurg 1997 Jun;86(6):1031–5

Traumatic popliteal artery thrombosis and compartment syndrome of the leg following blunt trauma to the knee: a discussion of treatment and complications. Seybold EA, et al. **J Orthop Trauma** 1996;10(2):138–41 (21 ref.)

Ulnar artery occlusion in mountain bikers. Applegate KE, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):232–4

Vascular complications after femoral artery catheterization in burn patients. Riker AI, et al. **J Trauma** 1996 Nov; 41(5):904–5

Isolated common iliac artery occlusion secondary to atherosclerotic plaque rupture from blunt abdominal trauma: case report and review of the literature. Tsai FC, et al. **J Trauma** 1997 Jan;42(1):133–6 (18 ref.)

Left atrial myxoma with embolization presenting as an acute infrarenal aortic occlusion. Horn KD, et al.
J Vasc Surg 1997 Aug;26(2):341–5

Gastroesophageal tumor embolization to the popliteal arteries. Nicholas GG, et al. **J Vasc Surg** 1997 Aug; 26(2):333–6

Middle cerebral artery occlusion after pterional approach to basilar bifurcation aneurysm: technical case report. Hua SE, et al. **Neurosurgery** 1996 Nov;39(5):1050–3; discussion 1053–4

Rotational vertebral artery occlusion: a mechanism of vertebrobasilar insufficiency. Kuether TA, et al.
Neurosurgery 1997 Aug;41(2):427–32; discussion 432–3 (26 ref.)

Middle cerebral artery stenosis caused by relatively low-dose irradiation with stereotactic radiosurgery for cerebral arteriovenous malformations: case report. Yamamoto M, et al. **Neurosurgery** 1997 Aug;41(2):474–7; discussion 477–8

Bone marrow transplantation in children. Imaging assessment of complications. Benya EC, et al.
Pediatr Clin North Am 1997 Jun;44(3):741–61 (30 ref.)

Recovery from rhinocerebral mucormycosis with carotid artery occlusion: a pediatric case and review of the literature. Shah PD, et al. **Pediatr Infect Dis J** 1997 Jan; 16(1):68–71 (27 ref.)

Effect of maternal hyperoxygenation on experimentally produced uteroplacental insufficiency in the rat. Sapunar D, et al. **Reprod Fertil Dev** 1996;8(3):379–81

Compression of the inferior vena cava due to diffuse idiopathic skeletal hyperostosis. Scapinelli R.
Rev Rhum Engl Ed 1997 Mar;64(3):198–201

Survival of a microvascular muscle flap despite the late occlusion of the inflow artery in a neuroischaemic diabetic foot. Mätzke S, et al.
Scand J Plast Reconstr Surg Hand Surg 1997 Mar; 31(1):71–5

Vertebral artery occlusion associated with cervical spine trauma. A prospective analysis. Giacobetti FB, et al.
Spine 1997 Jan 15;22(2):188–92

Vertebral artery occlusion after subarachnoid hemorrhage from a dissecting aneurysm of the vertebral artery: case report. Yasui T, et al. **Surg Neurol** 1997 Feb;47(2):149–52; discussion 152–3

Pulmonary artery occlusion by tuberculous mediastinal lymphadenopathy. Drake WM, et al. **Thorax** 1997 Mar; 52(3):301–2

[Paraneoplastic arterial thrombosis. Apropos of 2 cases] Aboyans V, et al. **Arch Mal Coeur Vaiss** 1996 Oct; 89(10):1297–300 (Eng. Abstr.) **(Fre)**

[Localised primary lesion of the right pulmonary artery in Takayasu's disease] Defaye P, et al.
Arch Mal Coeur Vaiss 1996 Sep;89(9):1217–21 (Eng. Abstr.) **(Fre)**

[Acute upper limb ischemia in a young adult without cardiac disease. Value of transesophageal echocardiography] Sal R, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1317–21 (Eng. Abstr.) **(Fre)**

[Obliterative arteriopathy in chronic rejection after hepatic transplantation. Search of cytomegalovirus genome by in situ hybridization and viral antigens by immunohistochemistry] Martin L, et al.
Gastroenterol Clin Biol 1997;21(4):259–64 (Eng. Abstr.) **(Fre)**

[Tobacco and arterial diseases: the reasons for the present failure (editorial)] Lagrue G, et al. **J Mal Vasc** 1997; 22(1):3–4 **(Fre)**

[Obliteration of the large arteries as a late sequela of radiation-induced vasculopathies] Knaack L, et al.
Dtsch Med Wochenschr 1997 May 16;122(20):655–8 (10 ref.) **(Ger)**

[Restenosis after percutaneous transluminal angioplasty: I. Etiology and clinical significance] Alfke H, et al. **Vasa** 1996; 25(1):13–20 (58 ref.) (Eng. Abstr.) **(Ger)**

[Incidence and therapy of peripheral arterial vascular complications after heart catheter examinations] Heintzen MP, et al. **Z Kardiol** 1997 Apr;86(4):264–72 (Eng. Abstr.) **(Ger)**

[Successful surgical repair of acute DeBakey type I aortic dissection complicated by acute occlusion of the suprarenal abdominal aorta] Shiiya N, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 May;44(5):682–6 (Eng. Abstr.) **(Jpn)**

[A case of middle cerebral artery occlusion caused by dissecting aneurysm] Fu Y, et al. **No Shinkei Geka** 1996 Oct;24(10):955–9 (Eng. Abstr.) **(Jpn)**

[A case of basilar artery occlusion associated with one-and-a-half syndrome, paralytic pontine exotropia and WEBINO-syndrome] Furiya Y, et al. **No To Shinkei** 1997 Jun;49(6):558–62 (Eng. Abstr.) **(Jpn)**

[A case of Prader-Willi syndrome with bilateral middle cerebral artery occlusion and moyamoya phenomenon] Kusuhara T, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):770–3 (Eng. Abstr.) **(Jpn)**

[Internal carotid artery occlusion related to seat belt shoulder strap: report of two cases] Watanabe Y, et al.
Rinsho Shinkeigaku 1996 May;36(5):670–4 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Acute arterial obstruction (its etiology, diagnosis and treatment)] Pokrovskiĭ AV, et al. **Ter Arkh** 1997;69(4):72–6 **(Rus)**

GENETICS

Familial aggregation of medial arterial calcification in Pima Indians with and without diabetes. Narayan KM, et al.
Diabetes Care 1996 Sep;19(9):968–71

Infrarenal aortic dimensions in siblings of patients with infrarenal abdominal aortic aneurysm or aortoiliac occlusive disease. Jaakkola P, et al. **Eur J Surg** 1995 Dec; 161(12):871–5

Expression of interleukin-1 beta converting enzyme gene family and bcl-2 gene family in the rat brain following permanent occlusion of the middle cerebral artery. Asahi M, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):11–8

Defective interaction between von Willebrand factor and platelet glycoprotein Ib—a familial study of peripheral arterial occlusive disease. Kauhanen P, et al.
Thromb Haemost 1997 May;77(5):849–55

HISTORY

History of ultrasonic duplex scanning. Strandness DE Jr.
Cardiovasc Surg 1996 Jun;4(3):273–80

METABOLISM

Molecular biology and post-angioplasty restenosis. Nikol S, et al. **Atherosclerosis** 1996 Jun;123(1–2):17–31 (79 ref.)

Patterns of growth inhibitory factor (GIF) and glial fibrillary acidic protein relative level changes differ following left middle cerebral artery occlusion in rats. Inuzuka T, et al.
Brain Res 1996 Feb 12;709(1):151–31

Altered expression of Bcl-2, Bcl-X, Bax, and c-Fos colocalizes with DNA fragmentation and ischemic cell damage following middle cerebral artery occlusion in rats. Gillardon F, et al. **Brain Res Mol Brain Res** 1996 Sep 1; 40(2):254–60

Biochemical evidence for impaired nitric oxide synthesis in patients with peripheral arterial occlusive disease. Böger RH, et al. **Circulation** 1997 Apr 15;95(8):2068–74

The concentration of high molecular weight compounds in interstitial tissue fluid: a study in patients with post-reconstructive leg oedema. Haaverstad R, et al.
Eur J Vasc Endovasc Surg 1997 Apr;13(4):355–60

Inhibition of ischemia-induced fodrin breakdown by a novel phenylpyrimidine derivative NS-7: an implication for its neuroprotective action in rats with middle cerebral artery occlusion. Takagaki Y, et al. **J Neurochem** 1997 Jun; 68(6):2507–13

Structural alterations in synaptosomal membrane-associated proteins and lipids by transient middle cerebral artery occlusion in the cat. Hall NC, et al. **Neurochem Res** 1995 Oct;20(10):1161–9

Effect of acquired tolerance to ischemia on focal infarction in gerbils. Sorimachi T, et al. **Neurol Med Chir (Tokyo)** 1997 Mar;37(3):236–42

Growth-associated protein GAP-43 detection in the neuronal somata following middle cerebral artery occlusion in the rat. Furuya K, et al. **Neurol Res** 1997 Apr;19(2):160–4

Inhibitory effect of MS-153 on elevated brain glutamate level induced by rat middle cerebral artery occlusion. Umemura K, et al. **Stroke** 1996 Sep;27(9):1624–8

[Dynamic 31-phosphorus magnetic resonance spectroscopy of the m. quadriceps: therapy-induced changes in arterial occlusive disease] Schunk K, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Aug;167(2):139–46 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Atrophy of the corpus callosum associated with cognitive impairment and widespread cortical hypometabolism in carotid artery occlusive disease. Yamauchi H, et al.
Arch Neurol 1996 Nov;53(11):1103–9

Development of an avian model for restenosis. Lucas A, et al. **Atherosclerosis** 1996 Jan 5;119(1):17–41

Tissue plasminogen activator in a vertebral artery dissection. Gasecki AP, et al. **Can J Neurol Sci** 1997 May;24(2):151–4

Histopathology of in-stent restenosis in patients with peripheral artery disease. Kearney M, et al. **Circulation** 1997 Apr 15;95(8):1998–2002

An alternative method for the quantitation of neuronal damage after experimental middle cerebral artery occlusion in rats: analysis of behavioral deficit. Aronowski J, et al.
J Cereb Blood Flow Metab 1996 Jul;16(4):705–13

ARL 17477, a potent and selective neuronal NOS inhibitor decreases infarct volume after transient middle cerebral artery occlusion in rats. Zhang ZG, et al.
J Cereb Blood Flow Metab 1996 Jul;16(4):599–604

Enzyme-histochemical and morphological characteristics of fast- and slow-twitch skeletal muscle after brain infarction in the rat. Ansved T, et al. **J Neurol Sci** 1996 Dec; 144(1–2):14–20

Test and teach. Number eighty three: Part 1. Idiopathic arterial calcification of infancy. Pashankar D, et al.
Pathology 1997 May;29(2):175, 217

Local photodynamic therapy reduces tissue hyperplasia in an experimental restenosis model. Gonschior P, et al.
Photochem Photobiol 1996 Nov;64(5):758–63

Pulmonary artery stenosis and periarteritis nodosa. Le Thi Huong DL, et al. **Scand J Rheumatol** 1996;25(4):266–7

Middle cerebral artery occlusion in the rat by intraluminal suture. Neurological and pathological evaluation of an improved model. Belayev L, et al. **Stroke** 1996 Sep; 27(9):1616–22; discussion 1623

Cerebral hemispheric low-flow infarcts in arterial occlusive disease. Lesion patterns and angiomorphological conditions. Mull M, et al. **Stroke** 1997 Jan;28(1):118–23

[Polydistrectual atherosclerosis in the elderly. Ischemic cardiopathy and obliterative peripheral arteriopathy of the lower limbs] Cimino R, et al. **Minerva Cardioangiol** 1997

May;45(5):223–7 (Eng. Abstr.) **(Ita)**

[A case of simultaneous bilateral carotid occlusion] Yamaguchi S, et al. **No Shinkei Geka** 1997 Mar; 25(3):247–51 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Microcirculatory system of paired hamster cheek pouches during occlusion of the common carotid arteries] Mikhailichenko LA. **Biull Eksp Biol Med** 1996 Feb; 121(2):144–7 **(Rus)**

PHYSIOPATHOLOGY

The influence of unilateral vertebral artery occlusion on brainstem and inner ear blood flow in rat. Ueda T, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):742–6

Hiccups associated with lateral medullary syndrome. A case report. Nickerson RB, et al. **Am J Phys Med Rehabil** 1997 Mar–Apr;76(2):144–6

Cardiovascular reflex responses to ischemia during occlusion of celiac and/or superior mesenteric arteries. Rendig SV, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H791–6

Early collateral and microvascular adaptations to intestinal artery occlusion in rat. Unthank JL, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H914–23

Thromboxane-mediated alveolar responses to acute obstruction of the pulmonary vasculature. Mitra A, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):978–83

Manipulation of cerebrovascular resistance during internal carotid artery occlusion by intraarterial verapamil. Joshi S, et al. **Anesth Analg** 1997 Oct;85(4):753–9

The use of intra-arterial urokinase in the management of hand ischemia secondary to palmar and digital arterial occlusion. Wheatley MJ, et al. **Ann Plast Surg** 1996 Oct;37(4):356–62; discussion 362–3

Nitric oxide synthase: role in the genesis of vascular disease. Cooke JP, et al. **Annu Rev Med** 1997;48:489–509 (116 ref.)

Improvement of microcirculatory blood flow under epidural spinal cord stimulation in patients with nonreconstructible peripheral arterial occlusive disease. Claeys LG. **Artif Organs** 1997 Mar;21(3):201–6 (36 ref.)

The pathophysiology of vascular obstruction in the sickle syndromes. Kaul DK, et al. **Blood Rev** 1996 Mar; 10(1):29–44 (153 ref.)

Neurobehavioral consequences of induced spreading depression following photothrombotic middle cerebral artery occlusion. Alexis NE, et al. **Brain Res** 1996 Jan 15; 706(2):273–82

Quantitative evaluation of blood–brain barrier permeability following middle cerebral artery occlusion in rats. Belayev L, et al. **Brain Res** 1996 Nov 11;739(1–2):88–96

Cardiovascular response to stress after middle cerebral artery occlusion in rats. Cheung RT, et al. **Brain Res** 1997 Feb 7;747(2):181–8

Sequential changes in cerebrovascular reserve capacity in three-vessel occlusion rats. Kawata Y, et al. **Brain Res** 1996 Nov 11;739(1–2):330–4

Ischemic tolerance in moderately symptomatic gerbils after unilateral carotid occlusion. Kitagawa K, et al. **Brain Res** 1996 Apr 15;716(1–2):39–46

Angioplasty of a coronary artery via the translumbar approach in a patient with severe peripheral vascular disease [see comments] Chandler AH 3rd, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):202–4. Comment in: Cathet Cardiovasc Diagn 1996 Jun;38(2):205.

Back to our roots [editorial; comment] Grollman JH Jr. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):205. Comment on: Cathet Cardiovasc Diagn 1996 Jun;38(2):202–4.

Monocyte chemotactic protein-1 increases collateral and peripheral conductance after femoral artery occlusion. Ito WD, et al. **Circ Res** 1997 Jun;80(6):829–37

Diminished postprandial hyperemia in patients with aortic and mesenteric arterial occlusive disease. Quantification by magnetic resonance flow imaging. Dalman RL, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II206–10

The effects of bosentan on cerebral blood flow and histopathology following middle cerebral artery occlusion in the rat. McAuley MA, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):171–81

Pharmacological studies of a novel prolyl endopeptidase inhibitor, JTP-4819, in rats with middle cerebral artery occlusion. Shinoda M, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):31–8

Dilatation of saphenous vein grafts by nitric oxide. Golledge J, et al. **Eur J Vasc Endovasc Surg** 1997 Jul;14(1):41–7

Blood flow rate during orthostatic pressure changes in the pulp skin of the first toe. Midttun M, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):278–84

The regulation of neutrophil activation and adhesion during femorodistal bypass surgery. Spark JI, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):407–12

Intracranial vertebral artery disease in the New England Medical Center Posterior Circulation Registry. Müller-Küppers M, et al. **Eur Neurol** 1997;37(3):146–56

Collateral circulation in distal occlusion of lower limb arteries: an anatomical study and statistical research in 40 elderly subjects by echo-color-Doppler method. Macchi C, et al. **Ital J Anat Embryol** 1996 Oct–Dec;101(4):221–7

Thrombin and restenosis: has the question been answered? [editorial; comment] Stouffer GA, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1856–7. Comment on: J Am Coll Cardiol 1996 Dec;28(7):1849–55.

Angiogenesis in bronchial circulatory system after unilateral pulmonary artery obstruction. Charan NB, et al. **J Appl Physiol** 1997 Jan;82(1):284–91

The accuracy of magnetic resonance phase velocity measurements in stenotic flow. Siegel JM Jr, et al. **J Biomech** 1996 Dec;29(12):1665–72

Two-phase model of blood flow through stenosed tubes in the presence of a peripheral layer: applications. Srivastava VP. **J Biomech** 1996 Oct;29(10):1377–82

On the wave transmission and reflection properties of stenoses. Stergiopulos N, et al. **J Biomech** 1996 Jan; 29(1):31–8

Effects of frictional losses and pulsatile flow on the collapse of stenotic arteries. Downing JM, et al. **J Biomech Eng** 1997 Aug;119(3):317–24

Physical activity monitoring in patients with peripheral arterial occlusive disease. Sieminski DJ, et al. **J Cardiopulm Rehabil** 1997 Jan–Feb;17(1):43–7

Antibodies against adhesion molecules reduce apoptosis after transient middle cerebral artery occlusion in rat brain. Chopp M, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):578–84

Repeat positron emission tomographic studies in transient middle cerebral artery occlusion in cats: residual perfusion and efficacy of postischemic reperfusion. Heiss WD, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):388–400

Spinal cord protection with the use of prostacyclin during aortic occlusion. Katircioğlu SF, et al. **J Surg Res** 1996 Sep;65(1):77–81

Restenosis. pathophysiology and preventive strategies. Phillips-Hughes J, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):321–33 (136 ref.)

Importance of diastolic velocities in the detection of celiac and mesenteric artery disease by duplex ultrasound. Perko MJ, et al. **J Vasc Surg** 1997 Aug;26(2):288–93

Suspension model for blood flow through stenotic arteries with a cell-free plasma layer. Srivastava VP, et al. **Math Biosci** 1997 Jan 15;139(2):79–102

Shear rate dependency of red cell sequestration in skin capillaries in sickle cell disease and its variation with vasoocclusive crisis. Lipowsky HH, et al. **Microcirculation** 1997 Jun;4(2):289–301

Alteration of transglutaminase activity in rat and human spinal cord after neuronal degeneration. Fujita K, et al. **Neurochem Res** 1995 Oct;20(10):1195–201

Age-related ischemia in the brain following bilateral carotid artery occlusion--collateral blood flow and brain metabolism. He Z, et al. **Neurochem Res** 1997 Jan; 22(1):37–42

Assessment of functional impairment following permanent middle cerebral artery occlusion in a non-human primate species. Marshall JW, et al. **Neurodegeneration** 1996 Sep; 5(3):275–86

Hemodynamics in an arterial union--simulation study on therapeutic unilateral vertebral artery occlusion. Kawanishi M, et al. **Neurol Res** 1996 Dec;18(6):564–6

Endovascular suture occlusion of the middle cerebral artery in rats: effect of suture insertion distance on cerebral blood flow, infarct distribution and infarct volume. Zarow GJ, et al. **Neurol Res** 1997 Aug;19(4):409–16

Relationship between the flow pattern and vasomotor reactivity in the ophthalmic artery, siphon and vessels within the circle of Willis in the unilateral internal carotid artery occlusion. Zbornikova V, et al. **Neurol Res** 1996 Dec;18(6):521–7

Electrophysiological studies of rat substantia nigra neurons in an in vitro slice preparation after middle cerebral artery occlusion. Nakanishi H, et al. **Neuroscience** 1997 Apr; 77(4):1021–8

Comparison of sodium pentobarbitone and urethane anaesthesia in a rat model of coronary artery occlusion and reperfusion arrhythmias: interaction with L-NAME. Iskit AB, et al. **Pharmacol Res** 1996 Jan;33(1):13–8

Middle cerebral artery occlusion in the rat by intraluminal suture. Neurological and pathological evaluation of an improved model. Belayev L, et al. **Stroke** 1996 Sep; 27(9):1616–22; discussion 1623

Effect of proximal arterial perfusion pressure on function, spinal cord blood flow, and histopathologic changes after increasing intervals of aortic occlusion in the rat [see comments] Taira Y, et al. **Stroke** 1996 Oct;27(10):1850–8 . Comment in: Stroke 1997 Apr;28(4):878–9.

MRA flow quantification in patients with a symptomatic internal carotid artery occlusion. The Dutch EC-IC Bypass Study Group. van Everdingen KJ, et al. **Stroke** 1997 Aug; 28(8):1595–600

Early reperfusion in the anesthetized baboon reduces brain damage following middle cerebral artery occlusion: a quantitative analysis of infarction volume [published erratum appears in Stroke 1997 May;28(5):1092] Young AR, et al. **Stroke** 1997 Mar;28(3):632–7; discussion 637–8

Bovine hemoglobin increases skeletal muscle oxygenation during 95% artificial arterial stenosis. Horn EP, et al. **Surgery** 1997 Apr;121(4):411–8

[Rheology and occlusive arterial disease of the legs] Dupuy-Fons C, et al. **J Mal Vasc** 1996;21(3):165–70 (Eng. Abstr.) **(Fre)**

[Intraoperative acute aortic obstructive embolism] Bendyk K, et al. **Anaesthesist** 1996 Nov;45(11):1089–92 (Eng. Abstr.) **(Ger)**

[In vitro evaluation of the intravasal Doppler guide wire: determination of hemodynamic effects of stenoses in a flow model] Hoppe M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):544–9 (Eng. Abstr.) **(Ger)**

[Blood pressure of the hepatic artery in measured bleeding and its association with occlusion in experimental animals] Uzhva VP. **Klin Khir** 1996;(8):32–3 **(Rus)**

[Peripheral hemodynamics and the orthostatic phenomenon in patients chronic arterial obliterative diseases of the lower extremities with severe ischemia] Koshkin VM, et al. **Ter Arkh** 1995;67(12):29–31 (Eng. Abstr.) **(Rus)**

[Angiographic findings among Ecuadorian metis population with occlusive cerebrovascular disease of the anterior circulation] del Brutto OH, et al. **Rev Neurol** 1997 Jan; 25(137):40–3 (Eng. Abstr.) **(Spa)**

[Untreatable hiccup as an unusual sign in a rostral occlusion syndrome of the basilar artery] Revilla B, et al. **Rev Neurol** 1996 Mar;24(127):306–10 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

The lack of effect of beta-carotene on restenosis in cholesterol-fed rabbits. Burchenal JE, et al. **Atherosclerosis** 1996 Jun;123(1–2):157–67

Protective effect of beraprost sodium, a stable prostacyclin analogue, on cardiac allograft vasculopathy in rats. Kurisu Y, et al. **Hiroshima J Med Sci** 1997 Mar;46(1):11–9

PSYCHOLOGY

An alternative method for the quantitation of neuronal damage after experimental middle cerebral artery occlusion in rats: analysis of behavioral deficit. Aronowski J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):705–13

[Development of an illness-specific instrument for assessment of quality of life in patients with arterial occlusive disease (Peripheral Arterial Occlusive Disease 86 Questionnaire)] Bullinger M, et al. **Vasa** 1996;25(1):32–40 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

The role of computed tomography in acute bowel ischemia. Regent D, et al. **Acta Gastroenterol Belg** 1996 Apr–Jun; 59(2):143–5

CT angiography of aortoiliac disease with volumetric rendering technique [letter; comment] Marcus CD, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1619–20. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1347–54.

CT angiography versus intraarterial digital subtraction angiography for assessment of aortoiliac occlusive disease. Rieker O, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1133–8

Intraoperative prebypass arteriography for infrageniculate revascularization. Huber TS, et al. **Am J Surg** 1997 Aug; 174(2):205–9

Long-term review of coeliac axis compression syndrome. Holland AJ, et al. **Ann R Coll Surg Engl** 1996 Sep; 78(5):470–2

Re: pseudostenosis in the peripheral circulation [letter] Lesnefsky MH, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):377–8

Greenfield filter caval perforation causing an aortic mural thrombus and femoral artery occlusion. Chintalapudi UB, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):53–5

Peripheral vascular disease and its evaluation. Principato R. **Clin Podiatr Med Surg** 1997 Apr;14(2):265–80 (46 ref.)

Duplex vs. angiography [letter; comment] Dodds S. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):255–6. Comment on: Eur J Vasc Endovasc Surg 1996 Aug;12(2):238–42.

Relation of haemostatic, fibrinolytic, and rheological variables to the angiographic extent of peripheral arterial occlusive disease. Woodburn KR, et al. **Int Angiol** 1995 Sep;14(3):219–25

Acute occlusion of the descending thoracic aorta: report of a case. Kawahito K, et al. **Surg Today** 1996;26(8):652–4

[Cost-effectiveness of and morbidity from digital subtraction angiography. A study of 5,817 cases] Perendreu J, et al. **Ann Radiol (Paris)** 1996;39(3):153–60 (Eng. Abstr.) **(Fre)**

[Semiquantitative detection of pain and heat sensations in evaluation of contrast media in pelvic/leg angiography. Intraindividual double-blind study with iomeprol 350 and iopentol 350] Mathias K, et al. **Radiologe** 1996 Feb; 36(2):164–8 (Eng. Abstr.) **(Ger)**

[Significance of arterial anastomoses of the distal calf and proximal foot for compensation of peripheral arterial occlusive disease] Schwarzenbach BP, et al. **Vasa** 1996; 25(4):331–6 (Eng. Abstr.) **(Ger)**

[Acute occlusion of aortic aneurysms] Yasuda K. **Ryoikibetsu Shokogun Shirizu** 1996;(14):395–8 (13 ref.) **(Jpn)**

RADIONUCLIDE IMAGING

111Indium platelet accumulation as a predictor of vessel occlusion [letter; comment] Rose MR, et al. **Clin Radiol** 1997 Mar;52(3):247. Comment on: Clin Radiol 1996 Jul;51(7):507–10.

Technetium-99m sestamibi leg scintigraphy for non-invasive assessment of propionyl-L-carnitine induced changes in skeletal muscle metabolism. Cittanti C, et al. **Eur J Nucl Med** 1997 Jul;24(7):762–6

Repeat positron emission tomographic studies in transient middle cerebral artery occlusion in cats: residual perfusion and efficacy of postischemic reperfusion. Heiss WD, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):388–400

Scintigraphic evidence of pulmonary vascular occlusion in sickle cell disease. Lisbona R, et al. **J Nucl Med** 1997 Jul;

38(7):1151–3
[Usefulness of measurement of blood flow by RI plethysmography] Kawakami K, et al. **Kaku Igaku** 1997 Mar;34(3):151–7 (Eng. Abstr.) **(Jpn)**

RADIOTHERAPY

Endovascular brachytherapy: the FDA's perspective [letter] Ryan TA. **Int J Radiat Oncol Biol Phys** 1996 Nov 1; 36(4):992–3
192IR endovascular brachytherapy for avoidance of intimal hyperplasia after percutaneous transluminal angioplasty and stent implantation in peripheral vessels: 6 years of experience. Schopohl B, et al.
Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):835–40

REHABILITATION

[Contralateral compression—a new method for stimulating blood flow in the affected extremity of patients with chronic obliterative arteriopathies (a preliminary report)] Koshkin VM, et al. **Ter Arkh** 1996;68(10):82–3 (Eng. Abstr.) **(Rus)**
[Epidural electrostimulation of the spinal cord in obliterating diseases of the peripheral arteries] Horsch S, et al.
Vestn Khir Im I I Grek 1995;154(4–6):111–3 (Eng. Abstr.) **(Rus)**
[The use of physical factors in treating chronic arterial insufficiency of the lower limbs] Dovganiuk AP, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Sep–Oct;(5):7–9 **(Rus)**

SURGERY

Femoropopliteal endobypass: a feasibility study in 41 patients. Casselman F, et al. **Acta Chir Belg** 1997 Jan–Feb;97(1):23–6
Combined revascularization of coronary and femoral arteries, using the ascending aorta as inflow source. Daenens K, et al. **Acta Chir Belg** 1997 Jan–Feb;97(1):47–9
Long–term results of using the in situ saphenous vein bypass. Shah DM, et al. **Adv Surg** 1996;30:123–40
Local anesthesia for infrainguinal arterial reconstruction. Barkmeier LD, et al. **Am J Surg** 1997 Aug;174(2):202–4
Optimal methods for autogenous bypass to the anterior tibial artery. Eslami MH, et al. **Am J Surg** 1997 Aug; 174(2):198–201
Identification of predictors for lower extremity vein graft stenosis. Gentile AT, et al. **Am J Surg** 1997 Aug; 174(2):218–21
Heparin–related thrombosis despite normal platelet counts in vascular surgery. Hach–Wunderle V, et al.
Am J Surg 1997 Feb;173(2):117–9
Is color duplex surveillance of infrainguinal polytetrafluoroethylene grafts worthwhile? Hoballah JJ, et al. **Am J Surg** 1997 Aug;174(2):131–5
Intraoperative prebypass arteriography for infrageniculate revascularization. Huber TS, et al. **Am J Surg** 1997 Aug; 174(2):205–9
Prosthetic bypass with a distal vein patch for limb salvage. Neville RF, et al. **Am J Surg** 1997 Aug;174(2):173–6
Limb loss after lower extremity bypass. Reifsnyder T, et al. **Am J Surg** 1997 Aug;174(2):149–51
The performance of femoropopliteal bypasses using polytetrafluoroethylene above the knee versus autogenous vein below the knee. Woratyla SP, et al. **Am J Surg** 1997 Aug;174(2):169–72
Limb ischemia: surgical therapy in acute arterial occlusion. Neuzil DF, et al. **Am Surg** 1997 Mar;63(3):270–4
Infrarenal aortofemoral bypass surgery: risk factors and mortality in 330 patients with abdominal aortic aneurysm or aortoiliac occlusive disease. Jaakkola P, et al.
Ann Chir Gynaecol 1996;85(1):28–35
Simultaneous subclavian artery reconstruction in coronary artery bypass grafting. Ochi M, et al. **Ann Thorac Surg** 1997 May;63(5):1284–7
Cardiac evaluation of the diabetic patient prior to peripheral vascular surgery. Hood DB, et al. **Ann Vasc Surg** 1996 Jul;10(4):330–5
Published results of surgery for aortoiliac occlusive disease. McDaniel MD, et al. **Ann Vasc Surg** 1997 Jul;11(4):425–41
Fluoroscopically assisted thromboembolectomy: an improved method for treating acute arterial occlusions. Parsons RE, et al. **Ann Vasc Surg** 1996 May;10(3):201–10
Popliteal–to–distal bypass grafts for limb salvage. Verhelst R, et al. **Ann Vasc Surg** 1997 Sep;11(5):505–9
Mechanical thrombectomy of embolic occlusion in both the profunda femoris and superficial femoral arteries in critical limb ischaemia. Rilinger N, et al. **Br J Radiol** 1997 Jan; 70:80–4
Changing patterns in aortoiliac reconstruction: a 7–year audit. Whiteley MS, et al. **Br J Surg** 1996 Oct;83(10):1367–9
Experimental laparoscopic aortobifemoral bypass for occlusive aortoiliac disease. Dion YM, et al.
Can J Surg 1996 Dec;39(6):451–5
Management of arterial occlusive disease following radiation therapy. Andros G, et al. **Cardiovasc Surg** 1996 Apr; 4(2):135–42
Prophylaxis of graft infection with rifampicin–bonded Gelseal graft: 2–year follow–up of a prospective clinical trial. Italian Investigators Group. D'Addato M, et al.
Cardiovasc Surg 1996 Apr;4(2):200–4
Thromboendarterectomy for obstructive disease of the common iliac artery. Oskam J, et al. **Cardiovasc Surg** 1996 Jun;4(3):356–9
Venous allografts for infrainguinal vascular bypass. Rebane E, et al. **Cardiovasc Surg** 1997 Feb;5(1):21–5
Extraluminal endoscopic–assisted ligation of venous tributaries for infrainguinal in situ saphenous vein bypass: a preliminary report. Rosenthal D, et al.
Cardiovasc Surg 1996 Aug;4(4):512–4
Management of severe ischemia of the upper extremity. Pederson WC. **Clin Plast Surg** 1997 Jan;24(1):107–20 (56 ref.)
Recanalization of iliac artery occlusion by subintimal dissection using the ipsilateral and the contralateral approach. Bolia A, et al. **Clin Radiol** 1997 Sep;52(9):684–7
Persistent trigeminal artery as a cause of dizziness. Battista RA, et al. **Ear Nose Throat J** 1997 Jan;76(1):43–5 (18 ref.)
Extraanatomic thoracic aortic bypass grafts: indications, techniques, and results. Heinemann MK, et al.
Eur J Cardiothorac Surg 1997 Jan;11(1):169–75
The value of pre–operative ultrasound mapping of the greater saphenous vein prior to 'closed' in situ bypass operations. van Dijk LC, et al. **Eur J Radiol** 1996 Nov;23(3):235–7
Symptomatic unilateral hydronephrosis: a late complication of aortobifemoral bypass graft surgery. Barber NJ, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):419–20
Risk factors for intestinal ischaemia after aortoiliac surgery: a combined cohort and case–control study of 2824 operations. Björck M, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):531–9
Changes in platelet count, coagulation and fibrinogen associated with elective repair of asymptomatic abdominal aortic aneurysm and aortic reconstruction for occlusive disease. Bradbury A, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):375–80
Adjusting outcome measurements for case–mix in a vascular surgical register—is it possible and desirable? Elfström J, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):459–63
Femorotibial reconstructions for chronic critical leg ischaemia: influence on outcome by diabetes, gender and age. Luther M, et al. **Eur J Vasc Endovasc Surg** 1997 Jun; 13(6):569–77
Falling incidence of amputations for peripheral occlusive arterial disease in Western Australia between 1980 and 1992. Mattes E, et al. **Eur J Vasc Endovasc Surg** 1997 Jan; 13(1):14–22
Thrombosis and restenosis after peripheral angioplasty: does acute 111indium–platelet accumulation predict angioplasty outcome? Nyamekye I, et al.
Eur J Vasc Endovasc Surg 1997 Apr;13(4):388–93
Can lower limb vascular reconstruction be based on colour Duplex imaging alone? Pemberton M, et al.
Eur J Vasc Endovasc Surg 1996 Nov;12(4):452–4
Subclavian carotid transposition: an analysis of a clinical series and a review of the literature. Schardey HM, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):431–6 (27 ref.)
The proximal carotid–vertebral bypass. Scholz H, et al.
Eur J Vasc Endovasc Surg 1997 Feb;13(2):214–6
The regulation of neutrophil activation and adhesion during femorodistal bypass surgery. Spark JI, et al.
Eur J Vasc Endovasc Surg 1997 Apr;13(4):407–12
Popliteal artery entrapment syndrome: diagnosis and management. Porcellini M, et al. **G Chir** 1997 Apr; 18(4):182–6
Pseudo–occlusion of the internal carotid artery: report of 15 cases and review of the literature. Regina G, et al.
Int Angiol 1997 Jun;16(2):147–50 (31 ref.)
Completion arteriography in paramalleolar bypasses: effect of configurational changes, with special reference to spasm, on long–term outcome. Sato O, et al. **Int Angiol** 1997 Sep; 15(3):219–24
State of the art—treatment of peripheral occlusive arterial disease (POAD) with drugs vs. vascular reconstruction or amputation. Haustein KO. **Int J Clin Pharmacol Ther** 1997 Jul;35(7):266–74 (101 ref.)
Intestinal ischemia after aortic surgery. Porcellini M, et al. **Int Surg** 1996 Apr–Jun;81(2):195–9
Combined percutaneous transluminal angioplasty, iliac stent deployment, and femorofemoral bypass for bilateral aortoiliac occlusive disease. Lopez–Galarza LA, et al.
J Am Coll Surg 1997 Mar;184(3):249–58
Geometric design improvements for femoral graft–artery junctions mitigating restenosis. Lei M, et al. **J Biomech** 1996 Dec;29(12):1605–14
Intraoperative urokinase as an alternative to heparin for patients with suspected heparin–induced thrombocytopenia requiring arterial reconstruction: report of a case and review of the literature. Weinmann EE, et al.
J Cardiovasc Surg (Torino) 1996 Oct;37(5):463–5
Superficial femoral endarterectomy with intra–arterial PTFE grafting. Bray AE. **J Endovasc Surg** 1995 Aug;2(3):297–301
Surgical reconstruction of the iliac arteries prior to endovascular aortic aneurysm repair. Chuter TA, et al.
J Endovasc Surg 1997 Aug;4(3):307–11
Endoluminal grafting for aneurysmal and occlusive disease in the superficial femoral artery: early experience. Diethrich EB, et al. **J Endovasc Surg** 1995 Aug;2(3):225–39
Oceans apart: the dichotomy in superficial femoral endarterectomy [comment] Fogarty TJ.
J Endovasc Surg 1995 Aug;2(3):288. Comment on: J Endovasc Surg 1995 Aug;2(3):278–87.
The Mollring Cutter remote endarterectomy: preliminary experience with a new endovascular technique for treatment of occlusive superficial femoral artery disease [see comments] Ho GH, et al. **J Endovasc Surg** 1995 Aug; 2(3):278–87. Comment in: J Endovasc Surg 1995 Aug;2(3):288.
Combined coronary and femoral revascularization using an ascending aorta to bifemoral bypass. Fabiani JN, et al.
J Med Liban 1995;43(3):142–5
Experimental study on the early efficacy of excimer laser with adjunctive balloon angioplasty in dog's femoral artery. Zeng H, et al. **J Tongji Med Univ** 1996;16(2):87–90
Isolated common iliac artery occlusion secondary to atherosclerotic plaque rupture from blunt abdominal trauma: case report and review of the literature. Tsai FC, et al. **J Trauma** 1997 Jan;42(1):133–6 (18 ref.)
Stent–graft repair of aorto–iliac occlusive disease coexisting with common femoral artery disease. Cynamon J, et al.
J Vasc Interv Radiol 1997 Jan–Feb;8(1 Pt 1):19–26
Prosthetic above–knee femoropopliteal bypass grafting: results of a multicenter randomized prospective trial. Above–Knee Femoropopliteal Study Group. Abbott WM, et al. **J Vasc Surg** 1997 Jan;25(1):19–28
Complications of iliac artery stent deployment [see comments] Ballard JL, et al. **J Vasc Surg** 1996 Oct; 24(4):545–53; discussion 553–5. Comment in: J Vasc Surg 1997 May;25(5):960–1.
Same–day admissions and other cost–saving strategies for elective aortoiliac surgery. Calligaro KD, et al.
J Vasc Surg 1997 Jan;25(1):141–4
Long–term results with axillo–axillary bypass grafts for symptomatic subclavian artery insufficiency. Chang JB, et al. **J Vasc Surg** 1997 Jan;25(1):173–8
Intraoperative autologous transfusion during elective infrarenal aortic reconstruction: a decision analysis model. Huber TS, et al. **J Vasc Surg** 1997 Jun;25(6):984–93; discussion 993–4
Endovascular aortounifemoral grafts and femorofemoral bypass for bilateral limb–threatening ischemia. Ohki T, et al. **J Vasc Surg** 1996 Dec;24(6):984–96; discussion 996–7
Clinical, biochemical, and rheologic factors affecting the outcome of infrainguinal bypass grafting. Woodburn KR, et al. **J Vasc Surg** 1996 Oct;24(4):639–46
Results of axillofemoral by–passes for aorto–iliac occlusive disease. Illuminati G, et al. **Langenbecks Arch Chir** 1996, 381(4):212–7
Significative improvement of renal function after correction of critical renal artery stenoses in patients with impaired renal function [letter] Campieri C, et al. **Nephron** 1996; 74(1):243–4
Effectiveness of revascularization surgery evaluated by proton magnetic resonance spectroscopy and single photon emission computed tomography. Uno M, et al.
Neurol Med Chir (Tokyo) 1996 Aug;36(8):560–6; discussion 566–7
Hemodynamics in an arterial union—simulation study on therapeutic unilateral vertebral artery occlusion. Kawanishi M, et al. **Neurol Res** 1996 Dec;18(6):564–6
The risks and benefits of carotid endarterectomy in patients with near occlusion of the carotid artery. North American Symptomatic Carotid Endarterectomy Trial (NASCET) Group. Morgenstern LB, et al. **Neurology** 1997 Apr; 48(4):911–5
The use of bifurcated and not reversed saphenous vein. Report of two cases. Locati P, et al. **Panminerva Med** 1997 Jun;39(2):144–8
Suggested approach for end to side anastomosis to the abdominal aorta in aorto–femoral bypass grafting for aorto–iliac occlusive disease. Nazem N, et al.
Panminerva Med 1996 Sep;38(3):199–200
Pharmacokinetics and pharmacodynamics of intra–graft iloprost in femorodistal bypass surgery. Watson HR, et al.
Prostaglandins Leukot Essent Fatty Acids 1997 May; 56(5):389–93
Occlusive and aneurysmal peripheral arterial disease: assessment of a stent–graft system. Henry M, et al.
Radiology 1996 Dec;201(3):717–24
Surgical management of occlusive disease of the common carotid artery. Chaikof EL, et al. **Semin Vasc Surg** 1996 Jun;9(2):111–7
Femorofemoral bypass: appropriate application based on factors affecting outcome. Criado E, et al.
Semin Vasc Surg 1997 Mar;10(1):34–41
Infrainguinal occlusive disease. Cronenwett JL.
Semin Vasc Surg 1995 Dec;8(4):284–8
Limitations of percutaneous transluminal angioplasty with stenting for femoropopliteal arterial occlusive disease. Gray BH, et al. **Semin Vasc Surg** 1997 Mar;10(1):8–16
Infrainguinal bypass in end–stage renal disease: when is it justified? Isiklar MH, et al. **Semin Vasc Surg** 1997 Mar; 10(1):42–8 (45 ref.)
Endovascular treatment of aortic arch occlusive disease. Queral LA, et al. **Semin Vasc Surg** 1996 Jun;9(2):156–63
Aortoiliac occlusive disease. Schneider JR.
Semin Vasc Surg 1995 Dec;8(4):277–83 (39 ref.)
The pneumatic tourniquet: a useful adjunct in lower extremity distal bypass. Snyder SO Jr. **Semin Vasc Surg** 1997 Mar;10(1):31–3
Total aortic arch reconstruction for multiple great vessel occlusive disease. Takach TJ, et al. **Semin Vasc Surg** 1996 Jun;9(2):118–24
Innominate artery reconstruction for occlusive disease. Whitley D, et al. **Semin Vasc Surg** 1996 Jun;9(2):84–92
Transaortic mesenteric endarterectomy. Hansen KJ, et al.
Surg Clin North Am 1997 Apr;77(2):397–407
Changes in angiographic features and the ankle/brachial

pressure index of femorodistal arterial bypass grafts during knee flexion. Akiyama N, et al. **Surg Today** 1996; 26(2):115–8

The retroperitoneal approach to aortoiliac surgery associated with a horseshoe kidney: report of a case. Moriyasu K, et al. **Surg Today** 1996;26(8):655–7

Use of a nondissection method in lower extremity revascularization: a report on our 12-year experience of autogenous vein bypass surgery. Takayama Y, et al. **Surg Today** 1996;26(11):910–4

Innominate artery occlusive disease: management with central reconstructive techniques. Ligush J Jr, et al. **Surgery** 1997 May;121(5):556–62

Aortoiliofemoral bypass graft in young adults: long-term results in a series of sixty-eight patients. Mingoli A, et al. **Surgery** 1997 Jun;121(6):646–53

Transthoracic reconstruction of the great vessels using minimally invasive technique. Takach TJ, et al. **Tex Heart Inst J** 1996;23(4):284–8

Urgent revascularization of liver allografts after early hepatic artery thrombosis. Pinna AD, et al. **Transplantation** 1996 Dec 15;62(11):1584–7

[Laparoscopically assisted iliofemoral bypass] Dostalík J. **Rozhl Chir** 1997 Apr;76(4):187–9 (Eng. Abstr.) **(Cze)**

[Long-term results of femorocrural arterial reconstruction] Táborský J. **Rozhl Chir** 1997 May;76(5):254–7 (Eng. Abstr.) **(Cze)**

[Initial experience with angioscopy in infrainguinal reconstruction using the in situ saphenous vein technique] Tošenovský P, et al. **Rozhl Chir** 1997 Jun;76(6):289–93 (Eng. Abstr.) **(Cze)**

[Arterial surgery in complicated reconstruction] Merlini M. **Rev Med Suisse Romande** 1997 Feb;117(2):127–30 **(Fre)**

[Current possibilities for endoluminal arterial vascular procedures] Morin D, et al. **Rev Med Suisse Romande** 1997 Feb;117(2):117–25 (10 ref.) **(Fre)**

[The superficial femoral vein in aorto-iliac position—suitable as autogenous vascular replacement in deep prosthesis infection?] Franke S, et al. **Chirurg** 1996 Aug;67(8):843–9 (Eng. Abstr.) **(Ger)**

[Acceptance and effectiveness of surgical vascular consultation. Comment on the contribution by Graupe et al. (letter; comment)] Klein M. **Chirurg** 1996 Jul;67(7):764–6 . Comment on: Chirurg 1995 Dec;66(12):1239–44; discussion 1245–6. **(Ger)**

[Heterotopic ossification of a dacron prosthesis in peripheral arterial occlusive disease (letter; comment)] Sulkowski U, et al. **Dtsch Med Wochenschr** 1996 Dec 20;121(51–52):1621 . Comment on: Dtsch Med Wochenschr 1997 May 16;122(20):667. **(Ger)**

[Long-term outcome after reconstructive interventions of the aorto-iliac segment] Kirsch D, et al. **Langenbecks Arch Chir** 1997;382(1):49–54 (Eng. Abstr.) **(Ger)**

[Anticoagulation after vascular surgery interventions] Breuer P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:870–4 (13 ref.) (Eng. Abstr.) **(Ger)**

[Minimal invasive lumbar sympathectomy--technique and outcome, retroperitoneoscopic approach]] Jantschulev M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:619–21 (Eng. Abstr.) **(Ger)**

[Vascular surgery operations in tumor diseases] Luther B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:186–8 (Eng. Abstr.) **(Ger)**

[What treatment expectations does the elderly patient have from surgery and what can surgery achieve? From the viewpoint of vascular surgery] Rühland D. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:431–3 (Eng. Abstr.) **(Ger)**

[Service intervention for prevention of recurrence] Schweiger H. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:864–5 (Eng. Abstr.) **(Ger)**

[Vascular reconstruction and/or amputation in severely handicapped patients] Schwilden ED. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:866–9 (Eng. Abstr.) **(Ger)**

[Minimally invasive and direct approach for aorto-iliac reconstruction] Weber G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:885–8 (Eng. Abstr.) **(Ger)**

[Presentation of a new self-expanding vascular spiral stent] Rilinger N, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):578–81 (Eng. Abstr.) **(Ger)**

[Emergency carotid endarterectomy in acute infarction—case report and literature review] Eisner L, et al. **Swiss Surg** 1996;2(5):212–4 (17 ref.) (Eng. Abstr.) **(Ger)**

[Carotid endarterectomy—5-year results in St. Gallen canton hospital] Sege D, et al. **Swiss Surg** 1997;3(1):30–4 (Eng. Abstr.) **(Ger)**

[Preliminary results of a prospective randomized study vascular replacement above the knee] Erasmi H, et al. **Zentralbl Chir** 1996;121(3):228–33 (Eng. Abstr.) **(Ger)**

[Aorto-bi-subclavian bypass in the treatment of left subclavian steal syndrome and stenosis of the innominate artery] Balogh A, et al. **Orv Hetil** 1997 Jul 13; 138(28):1797–800 (27 ref.) (Eng. Abstr.) **(Hun)**

[Femoro-femoral crossover bypass in monolateral obstructions of the iliac artery] Bertoglio C, et al. **Chir Ital** 1995;47(4):33–40 (Eng. Abstr.) **(Ita)**

[Reconstructive and non-reconstructive procedures in the treatment of the threatened limb] Falaschi M, et al. **Minerva Chir** 1996 Apr;51(4):203–8 (Eng. Abstr.) **(Ita)**

[Bifurcated prosthesis in infrarenal aortic position in stenosing lesions. Functional results] Illuminati G, et al. **Minerva Chir** 1997 Jun;52(6):789–94 (Eng. Abstr.) **(Ita)**

[Prevention and treatment of early and late postoperative complications of prosthetic surgery of the arterial aorto-iliac area] Tridico F, et al. **Minerva Chir** 1996 Sep; 51(9):675–80 (Eng. Abstr.) **(Ita)**

[Surgical results of two cases of simultaneous carotid endarterectomy and coronary artery bypass grafting] Harada H, et al. **Kyobu Geka** 1996 Jul;49(7):557–61 (Eng. Abstr.) **(Jpn)**

[Reconstruction of the crural artery in atherosclerotic occlusive arterial disease] Tada Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):557–62 (Eng. Abstr.) **(Jpn)**

[The treatment of obliterating arterial diseases of the extremities by a revascularizing osteotrepanation method] Zusmanovich FN. **Khirurgiia (Mosk)** 1996;(6):34–6 (Eng. Abstr.) **(Rus)**

[Our experience in treating patients with embolisms of the aorta and major arteries of the extremities (on the centenary of the first embolectomy)] Barsukov AE, et al. **Vestn Khir Im I I Grek** 1996;(1):10–3 (Eng. Abstr.) **(Rus)**

[Lumbar sympathectomy in the combined treatment of obliterative vascular diseases of the lower extremities] Kudriavtsev BP, et al. **Voen Med Zh** 1996 Dec; 317(12):18–20 **(Rus)**

THERAPY

Comparison of results of stent implantation in small (<20 kg) children versus larger children with pulmonary artery stenoses. Movahhedian H, et al. **Am J Cardiol** 1996 Nov 15;78(10):1180–3

Balloon angioplasty by vascular surgeons. Madera FA, et al. **Am J Surg** 1997 Aug;174(2):152–6

Use of endovascular grafts to treat nonaneurysmal arterial disease. Ohki T, et al. **Ann Vasc Surg** 1997 Mar;11(2):200–5

Gene therapy for vascular disease. Schwartz LB, et al. **Ann Vasc Surg** 1997 Mar;11(2):189–99 (100 ref.)

Elevated lipoprotein(a) and increased incidence of restenosis after femoropopliteal PTA. Rationale for the higher risk of recurrence in females? Maca T, et al. **Atherosclerosis** 1996 Nov 15;127(1):27–34

Re: Percutaneous treatment of a symptomatic brachiocephalic artery stenosis with a Palmaz stent [letter] Brophy DP, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct;20(5):405–6

Perivascular inflammatory reaction after percutaneous placement of covered stents. Link J, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):345–7

The use of below-knee percutaneous transluminal angioplasty in arterial occlusive disease causing chronic critical limb ischemia. Löfberg AM, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):317–22

Percutaneous transluminal rotational atherectomy in the treatment of peripheral vascular disease using a transluminal endatherectomy catheter (TEC): initial results and angiographic follow-Up. Rilinger N, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):263–7

Vascular stents and stent grafts: a vascular surgeon's view. Taylor PR. **Cardiovasc Intervent Radiol** 1997 Jan–Feb; 20(1):1–4 (37 ref.)

Patterns of recurrent disease after recanalization of femoropopliteal artery occlusions. Vroegindeweij D, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):257–62

Endovascular stenting for treatment of an adult patient with pulmonary artery stenosis with 1-year follow-up. Kates MA, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):417–20

Stent redilation in canine models of congenital heart disease: pulmonary artery stenosis and coarctation of the aorta. Mendelsohn AM, et al. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):430–40

Success of an outpatient claudication group training program for patients with peripheral arterial occlusive disease (PAOD): the Tübingen model. Klyscz T, et al. **Cent Eur J Public Health** 1997 Mar;5(1):13–20

Chelation therapy for peripheral arterial occlusive disease: a systematic review. Ernst E. **Circulation** 1997 Aug 5; 96(3):1031–3 (36 ref.)

Endovascular stents in the arterial system—current status. Dyet JF. **Clin Radiol** 1997 Feb;52(2):83–108 (80 ref.)

The usage of heparin in vascular intervention [letter; comment] Randi ML, et al. **Clin Radiol** 1997 Mar; 52(3):247–8. Comment on: Clin Radiol 1996 Feb;51(2):113–6.

Feasibility and effectiveness of peripheral percutaneous transluminal balloon angioplasty in diabetic subjects with foot ulcers. Faglia E, et al. **Diabetes Care** 1996 Nov; 19(11):1261–4

Percutaneous stent implantation in an adult with left pulmonary artery stenosis and absent right pulmonary artery [letter] Dalvi BV, et al. **Eur Heart J** 1997 Apr; 18(4):700–1

Coronary intervention: risk stratification and management of abrupt coronary occlusion. de Feyter PJ, et al. **Eur Heart J** 1995 Nov;16 Suppl L:97–103 (51 ref.)

Evaluation of femoropopliteal arteries with duplex ultrasound after angioplasty. Can we predict results at one year? Spijkerboer AM, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):418–23

Effect of balloon angioplasty in femoropopliteal arteries assessed by intravascular ultrasound. van der Lugt A, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):549–56

Prediction of outcome after femoropopliteal balloon angioplasty by intravascular ultrasound. Vogt KC, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):563–8

The effects of platelet inhibitors on platelet uptake and restenosis after femoral angioplasty. Horrocks M, et al. **Int Angiol** 1997 Jun;16(2):101–6

Anticardiolipin antibodies are not associated with restenosis or endothelial activation after percutaneous transluminal angioplasty. Tsakiris DA, et al. **Int Angiol** 1997 Jun; 16(2):88–93

Management of subacute stent closure. Hasdai D, et al. **Int J Cardiol** 1996 Jul 26;55(2):115–6 (10 ref.)

Angioplasty treatment for peripheral vascular disease. Iannone L, et al. **Iowa Med** 1996 Sep;86(7):281–3

Management of radiation-induced occlusive arterial disease: a reassessment. Mellière D, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):261–9

Carotid angioplasty: is it safe? [see comments] Becquemin JP, et al. **J Endovasc Surg** 1996 Feb;3(1):35–41 (31 ref.). Comment in: J Endovasc Surg 1996 Aug;3(3):359–60.

Techniques for endovascular recanalization of supra-aortic trunks. Criado FJ, et al. **J Endovasc Surg** 1996 Nov; 3(4):405–13 (48 ref.)

Carotid angioplasty on trial [comment] Diethrich EB. **J Endovasc Surg** 1996 Feb;3(1):21. Comment on: J Endovasc Surg 1996 Feb;3(1):16–20.

Stenting in the carotid artery: initial experience in 110 patients. Diethrich EB, et al. **J Endovasc Surg** 1996 Feb; 3(1):42–62

Percutaneous techniques for Palmaz stent deployment. Dorros G, et al. **J Endovasc Surg** 1996 Nov;3(4):449–52

Clinical experience with a new nitinol self-expanding stent in peripheral arteries. Henry M, et al. **J Endovasc Surg** 1996 Nov;3(4):369–79

Percutaneous peripheral atherectomy using the rotablator: a single-center experience [see comments] Henry M, et al. **J Endovasc Surg** 1995 Feb;2(1):51–66. Comment in: J Endovasc Surg 1995 Feb;2(1):74–6.

Infrainguinal atherectomy using the Auth Rotablator: patency rates and clinical success for 36 procedures [see comments] Myers KA, et al. **J Endovasc Surg** 1995 Feb; 2(1):67–73. Comment in: J Endovasc Surg 1995 Feb;2(1):74–6. Comment in: J Endovasc Surg 1995 Aug;2(3):317–9.

Peripheral transluminal angioplasty under ultrasound guidance: initial clinical experience and prevalence of lower limb lesions amenable to ultrasound-guided angioplasty. Ramaswami G, et al. **J Endovasc Surg** 1995 Feb;2(1):27–35

European carotid angioplasty trial [see comments] Sivaguru A, et al. **J Endovasc Surg** 1996 Feb;3(1):16–20. Comment in: J Endovasc Surg 1996 Feb;3(1):21.

Rotablator: the long and short of it [comment] Wholey MH. **J Endovasc Surg** 1995 Feb;2(1):74–6. Comment on: J Endovasc Surg 1995 Feb;2(1):51–66. Comment on: J Endovasc Surg 1995 Feb;2(1):67–73.

Treatment of chronic iliac artery occlusions by means of percutaneous endovascular stent placement. Dyet JF, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):349–53

Prolonged dilation improves an unsatisfactory primary result of femoropopliteal artery angioplasty: usefulness of a perfusion balloon catheter. Manninen HI, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):627–32

Multicenter trial of the wallstent in the iliac and femoral arteries [see comments] Martin EC, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):843–9. Comment in: J Vasc Interv Radiol 1995 Nov–Dec;6(6):841–2.

Percutaneous revascularization of complex iliac artery stenoses and occlusions with use of Wallstents: three-year experience. Murphy TP, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):21–7

Subintimal revascularization of chronic iliac artery occlusions. Murphy TP. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):47–51

Use of a curved needle for true lumen re-entry during subintimal iliac artery revascularization. Murphy TP, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):633–6

Percutaneous transluminal stent placement in the abdominal aorta. Sheeran SR, et al. **J Vasc Interv Radiol** 1997 Jan–Feb; 8(1 Pt 1):55–60

Luminal changes in downsteam arteries after percutaneous interventions in iliac arteries: implications for balloon or stent size determination. Strunk HM, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):361–6

Comparison of balloon angioplasty and Simpson atherectomy for lesions in the femoropopliteal artery: angiographic and clinical results of a prospective randomized trial. Tielbeek AV, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):837–44

Current controversies in the management of aortoiliac occlusive disease. Brewster DC. **J Vasc Surg** 1997 Feb; 25(2):365–79 (152 ref.)

High incidence of restenosis/reocclusion of stents in the percutaneous treatment of long-segment superficial femoral artery disease after suboptimal angioplasty. Gray BH, et al. **J Vasc Surg** 1997 Jan;25(1):74–83

Impact of arterial surgery and balloon angioplasty on amputation: a population-based study of 1155 procedures between 1973 and 1992. Hallett JW Jr, et al. **J Vasc Surg** 1997 Jan;25(1):29–38

Regarding "Impact of arterial surgery and balloon

angioplasty on amputation: a population-based study of 1155 procedures between 1973 and 1992" [letter] Robicsek F. **J Vasc Surg** 1997 Aug;26(2):353

Surgical revascularization versus thrombolysis for nonembolic lower extremity native artery occlusions: results of a prospective randomized trial. The STILE Investigators. Surgery versus Thrombolysis for Ischemia of the Lower Extremity. Weaver FA, et al. **J Vasc Surg** 1996 Oct;24(4):513-21; discussion 521-3

Percutaneous transluminal angioplasty for total occlusion of middle cerebral arteries. Mori T, et al. **Neuroradiology** 1997 Jan;39(1):71-4

Percutaneous vascular intervention: value of hemodynamic measurements [editorial; comment] Bonn J. **Radiology** 1996 Oct;201(1):18-20. Comment on: Radiology 1996 Oct;201(1):155-9.

Meta-analysis of the results of percutaneous transluminal angioplasty and stent placement for aortoiliac occlusive disease. Bosch JL, et al. **Radiology** 1997 Jul;204(1):87-96

A new approach for acute embolus occlusion of the superior mesenteric artery. Mimori K, et al. **Surg Today** 1996; 26(11):949-51

Stenting for occlusion of the subclavian arteries. Technical aspects and follow-up results. Martinez R, et al. **Tex Heart Inst J** 1997;24(1):23-7

Residual stenosis determined by intravascular ultrasound and duplex ultrasound after balloon angioplasty of the superficial femoral artery. Pasterkamp G, et al. **Ultrasound Med Biol** 1996;22(7):801-6

Effects of adjuvant PGE1 therapy following profundaplasty in patients with severe limb ischaemia. Early and long-term results. Gruss JD. **Vasa** 1997 May;26(2):117-21

[Molecular bypass, the application of VEGF to gene therapy of limb ischemia] Zhou A, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):662-6 (Eng. Abstr.) **(Chi)**

[Placing of a Nitiol Memotherm prosthesis: personal experience] Wery D, et al. **J Belge Radiol** 1996 Nov; 79(5):223-6 (Eng. Abstr.) **(Fre)**

Simultaneous endoluminal dilatation and conventional surgery. Importance of programmed revascularization of the legs] Mellière D, et al. **J Mal Vasc** 1997 Jul;22(3):173-9; discussion 179-80 (Eng. Abstr.) **(Fre)**

[Chronic occlusive arteriopathy of the lower limbs: therapeutic approach] Hayoz D. **Schweiz Med Wochenschr** 1997 Mar 29;127(13):549-53 (21 ref.) (Eng. Abstr.) **(Fre)**

[Management of iatrogenic hemorrhage after mechanical vascular recanalization] Görich J, et al. **Aktuelle Radiol** 1996 Jan;6(1):28-31 (Eng. Abstr.) **(Ger)**

[The heterotopic ossification of a Dacron prosthesis in peripheral arterial occlusive disease (letter; comment)] Liebermeister E. **Dtsch Med Wochenschr** 1997 May 16; 122(20):667. Comment on: Dtsch Med Wochenschr 1996 Dec 20;121(51-52):1621. **(Ger)**

[Peripheral arterial occlusive disease. Diagnosis and modern conservative therapy] Zinnagl N. **Hautarzt** 1996 Jan; 47(1):70-8 (11 ref.) **(Ger)**

[Radiologic interventions in anastomosis complications after lung transplantation] Berger H, et al. **Radiologe** 1997 Mar; 37(3):220-4 (Eng. Abstr.) **(Ger)**

[Results of percutaneous implantation of coated vascular prostheses in long-distance femoropopliteal occlusions] Link J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):281-7 (Eng. Abstr.) **(Ger)**

[Restenosis after percutaneous transluminal angioplasty: II. Possibilities for pharmacologic intervention] Böger RH, et al. **Vasa** 1996;25(1):21-31 (105 ref.) (Eng. Abstr.) **(Ger)**

[Comments on guidelines for therapeutic studies in Fontaine's stage II-IV peripheral arterial occlusive disease (comment)] Heidrich H, et al. **Vasa** 1996;25(1):73-5. Comment on: Vasa 1995;24(2):107-19. **(Ger)**

[The effect of Taprostene on platelet activation and clinical course after percutaneous transluminal angioplasty] Heinz M, et al. **Vasa** 1996;25(1):65-72 (Eng. Abstr.) **(Ger)**

[Aortitis and development of an aneurysm after PTA of distal aortic stenosis] Raschke R, et al. **Vasa** 1996;25(3):287-91 (Eng. Abstr.) **(Ger)**

[Coronary stenting for treatment of intimal dissection and occlusive thrombosis during primary PTCA in acute myocardial infarction] Galli M, et al. **G Ital Cardiol** 1997 Apr;27(4):370-3 (Eng. Abstr.) **(Ita)**

[Reconstructive and non-reconstructive procedures in the treatment of the threatened limb] Falaschi M, et al. **Minerva Chir** 1996 Apr;51(4):203-8 (Eng. Abstr.) **(Ita)**

[A case of acute occlusion of left middle cerebral artery due to an embolus treated successfully with percutaneous transluminal angioplasty] Watanabe M, et al. **No Shinkei Geka** 1996 Nov;24(11):1027-32 (Eng. Abstr.) **(Jpn)**

[Biological and clinical effects of violet and blue light] Karandashov VI, et al. **Biull Eksp Biol Med** 1997 Apr; 123(4):452-4 **(Rus)**

[The regional hemodynamics in patients with chronic arterial insufficiency of the lower extremities after the transfusion of UV-irradiated autologous blood] Karandashov VI, et al. **Vestn Khir Im I I Grek** 1996;155(2):76-8 (Eng. Abstr.) **(Rus)**

[Optimization of endovascular methods of the treatment of stenosing lesions of peripheral blood vessels by ultrasound scanning] Demidov IN, et al. **Vestn Rentgenol Radiol** 1996 Sep-Oct;(5):45-6 **(Rus)**

ULTRASONOGRAPHY

Infoson in vascular and renal sonography. Jakobsen JA, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S322-4

Duplex and color Doppler flow sonography of occlusion and near occlusion of the carotid artery. Lee DH, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1267-74

Is color duplex surveillance of infrainguinal polytetrafluoroethylene grafts worthwhile? Hoballah JJ, et al. **Am J Surg** 1997 Aug;174(2):131-5

Noninvasive detection of iliac artery disease and prediction of its severity from Doppler spectral analysis in common femoral artery. Makita S, et al. **Angiology** 1997 Jul; 48(7):615-21

Orbital color Doppler imaging in carotid occlusive disease. Mawn LA, et al. **Arch Ophthalmol** 1997 Apr;115(4):492-6

Occlusive arterial disease of the upper extremity: colour Doppler as a screening technique and for assessment of distal circulation. Taneja K, et al. **Australas Radiol** 1996 Aug;40(3):226-9

Colour-coded duplex imaging can safely replace diagnostic arteriography in patients with lower-limb arterial disease. Pemberton M, et al. **Br J Surg** 1996 Dec;83(12):1725-8

Colour flow duplex imaging of occlusive arterial disease of the lower limb. Pemberton M, et al. **Br J Surg** 1997 Jul; 84(7):912-9 (100 ref.)

The use of color-coded duplex scanning in the selection of patients with lower extremity arterial disease for percutaneous transluminal angioplasty: a prospective study. Elsman BH, et al. **Cardiovasc Intervent Radiol** 1996 Sep-Oct;19(5):313-6

Duplex vs. angiography [letter; comment] Dodds S. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):255-6. Comment on: Eur J Vasc Endovasc Surg 1996 Aug;12(2):238-42.

Underutilisation of duplex scanning for the assessment of lower extremity arterial disease. Legemate DA. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):96-7

Can lower limb vascular reconstruction be based on colour Duplex imaging alone? Pemberton M, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):452-4

Evaluation of femoropopliteal arteries with duplex ultrasound after angioplasty. Can we predict results at one year? Spijkerboer AM, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):418-23

Prediction of outcome after femoropopliteal balloon angioplasty by intravascular ultrasound. Vogt KC, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):563-8

Color-coded duplex sonography of experimentally induced multilevel stenosis. Evaluation of poststenotic Doppler spectrum. Tacke J, et al. **Invest Radiol** 1997 Jul; 32(7):389-95

Value of color duplex sonography for evaluation of tibioperoneal arteries in patients with femoropopliteal obstruction: a prospective comparison with anterograde intraarterial digital subtraction angiography. Larch E, et al. **J Vasc Surg** 1997 Apr;25(4):629-36

Importance of diastolic velocities in the detection of celiac and mesenteric artery disease by duplex ultrasound. Perko MJ, et al. **J Vasc Surg** 1997 Aug;26(2):288-93

Stent remodeling contributes to femoropopliteal artery restenosis: an intravascular ultrasound study. van Lankeren W, et al. **J Vasc Surg** 1997 Apr;25(4):753-6

Prenatal ultrasound diagnosis of abdominal aortic aneurysm with fibrotic occlusion in aortic branch vessels. Malee MP, et al. **Prenat Diagn** 1997 May;17(5):479-82

Do chronic middle cerebral artery stenoses represent an embolic focus? A multirange transcranial Doppler study. Sliwka U, et al. **Stroke** 1997 Jul;28(7):1324-7

Colour duplex ultrasound assessment of lower limb arterial disease: the effect of adjacent disease [letter; comment] Sensier YJ, et al. **Ultrasound Med Biol** 1996;22(3):365-6. Comment on: Ultrasound Med Biol 1995;21(4):471-80.

Interobserver reproducibility of qualitative and quantitative analysis of intravascular ultrasound images before and after peripheral balloon angioplasty. van der Lugt A, et al. **Ultrasound Med Biol** 1996;22(4):399-404

[Intravascular echography] Tardif JC. **Ann Cardiol Angeiol (Paris)** 1996 Oct;45(8):459-63 (Eng. Abstr.) **(Fre)**

[Value of Doppler color ultrasonography in diagnosis of arterial occlusive disease of the lower extremity. A direct comparison with percutaneous angiography] Hendrickx P, et al. **Ultraschall Med** 1997 Jun;18(3):116-23 (Eng. Abstr.) **(Ger)**

[Optimization of endovascular methods of the treatment of stenosing lesions of peripheral blood vessels by ultrasound scanning] Demidov IN, et al. **Vestn Rentgenol Radiol** 1996 Sep-Oct;(5):45-6 **(Rus)**

[Ultrasonic diagnosis in the area of the carotid and vertebrobasilar circulation] Pancák J, et al. **Vnitr Lek** 1996 Jul;42(7):500-2 (Eng. Abstr.) **(Slo)**

VETERINARY

Independent and simultaneous unilateral occlusion of the pulmonary artery and extra-pulmonary primary bronchus in broilers. Wideman RF Jr, et al. **Poult Sci** 1996 Nov; 75(11):1417-27

ARTERIES

see related
ANGIOGRAPHY
ENDARTERECTOMY

Relationship between arterial and peripheral venous lactate levels [letter] Younger JG, et al. **Acad Emerg Med** 1996 Jul;3(7):730-4

Fixation of various porcine arteries with an epoxy compound. Sung HW, et al. **Artif Organs** 1997 Jan;21(1):50-8

Pain during arterial puncture. Giner J, et al. **Chest** 1996 Dec; 110(6):1443-5

Ketone body ratios of capillary blood compared with that of arterial blood [letter] Sakumoto H, et al. **Clin Chim Acta** 1996 Apr 30;248(2):205-7

Determination of appropriate recording force for non-invasive measurement of arterial pressure pulses. Driscoll MD, et al. **Clin Sci (Colch)** 1997 Jun;92(6):559-66

Fractures in cryopreserved elastic arteries. Pegg DE, et al. **Cryobiology** 1997 Mar;34(2):183-92

The arterial wall: a new pharmacological and therapeutic target. Laurent S, et al. **Fundam Clin Pharmacol** 1996; 10(3):243-57 (95 ref.)

Transcutaneous and arterial carbon dioxide tension during intermittent umbilical cord occlusion in fetal sheep. Bergmans MG, et al. **Gynecol Obstet Invest** 1997; 43(3):150-4

The interaction of pulmonary ventilation and the right-left shunt on arterial oxygen levels. Wang T, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2121-9 (28 ref.)

Influence of CO2 tension on hepatic hemodynamics during portal arterialization. Katagiri Y, et al. **J Surg Res** 1996 Feb 15;61(1):39-43

Preferential sites for arterial blood sampling in cattle. Muylle S, et al. **Vet Rec** 1996 Jul 27;139(4):86-8

[Peripheral artery aneurysms. I. Aneurysms of the lower limbs] Defraigne JO, et al. **Rev Med Liege** 1996 Dec; 51(12):771-81 (31 ref.) **(Fre)**

[Aneurysms of the peripheral arteries. II. Aneurysms of the upper limbs] Defraigne JO, et al. **Rev Med Liege** 1997; 52(1):27-30 (23 ref.) **(Fre)**

[Arterial thrombosis associated with anticardiolipin antibodies in a patient with ulcerative colitis (letter)] Zambrana García JL, et al. **Gastroenterol Hepatol** 1997 Jun-Jul;20(6):337 **(Spa)**

ABNORMALITIES

Abnormality of the labyrinthine artery and its topographical relation to the abducent nerve. Melling M, et al. **Acta Anat (Basel)** 1996;156(2):151-4 (38 ref.)

Anomalous first septal perforator artery: anatomic-clinical correlates [see comments] Topaz O, et al. **Clin Anat** 1996; 9(1):14-8. Comment in: Clin Anat 1997;10(1):57-8.

Non-surgical treatment of aneurysms of bilateral persistent sciatic artery. Sogaro F, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):503-5

Variability in origin and topography of the inferior epigastric and obturator arteries. Jakubowicz M, et al. **Folia Morphol (Warsz)** 1996;55(2):121-6

Persistent sciatic artery aneurysm with ruptured internal iliac artery aneurysm. Kuwabara M, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):169-72

Non-invasive evaluation of arterial abnormalities in hypertensive patients. Asmar RG, et al. **J Hypertens Suppl** 1997 Mar;15(2):S99-107 (57 ref.)

Dieulafoy lesion as a cause of massive gastrointestinal bleeding. Renz EM. **S D J Med** 1997 Jul;50(7):225-7

Diagnosis of uterine arteriovenous malformation by color and pulsed Doppler ultrasonography [letter] Sugiyama T, et al. **Ultrasound Obstet Gynecol** 1996 Nov;8(5):359-60 (12 ref.)

[The phenomenon of corrugated arteries. Report of 3 cases] Sironi A, et al. **Radiol Med (Torino)** 1997 May;93(5):641-3 **(Ita)**

[Rapidly deteriorating adult hydronephrosis due to an aberrant vessel: a case report] Urushibara M, et al. **Hinyokika Kiyo** 1996 Jul;42(7):521-3 (Eng. Abstr.) **(Jpn)**

ANATOMY & HISTOLOGY

Anatomical study of the abdominal arterial system in soricids (Insectivora, Mammalia): functional and phylogenetic implications. López-Fuster MJ, et al. **Anat Rec** 1997 May; 248(1):142-7

Arterial wall mechanical characteristics after treatment in collagenase: an in vitro aneurysm model. Dadgar L, et al. **Clin Invest Med** 1997 Feb;20(1):25-34

Variability in origin and topography of the inferior epigastric and obturator arteries. Jakubowicz M, et al. **Folia Morphol (Warsz)** 1996;55(2):121-6

Vascularization of the sartorius muscle. Wysocki J, et al. **Folia Morphol (Warsz)** 1996;55(2):115-20

Wire-core tree technique for accurate three-dimensional modelling of arterial trees. Benjamin R. **Med Biol Eng Comput** 1996 Nov;34(6):481-3

Comments on "Exponentially tapered T-tube model of systemic arterial system in dogs" [letter; comment] Burattini R, et al. **Med Eng Phys** 1996 Jun;18(4):333-8. Comment on: Med Eng Phys 1994 Sep;16(5):370-8.

Microvascular anatomy of striate vessels in dogs: contribution to an experimental model of forebrain ischemia. St-Jacques R, et al. **Neurol Res** 1996 Apr;18(2):157-62

Extraoral ligation of the lingual artery: an anatomic study. Homze EJ, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Mar;83(3):321–4
Vulnerability of great medullary artery. Lu J, et al. **Spine** 1996 Aug 15;21(16):1852–5
[Variations in the origin of the artery of Adamkiewicz] Illuminati G, et al. **Riv Eur Sci Med Farmacol** 1996 Mar–Apr;18(2):61–6 (Eng. Abstr.) **(Ita)**
[The structural organization of arterial branchings] Shormanov SV, et al. **Morfologiia** 1997;111(2):50–5 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Differential expression of nonmuscle myosin II isoforms in human atherosclerotic plaque. Nikol S, et al.
Atherosclerosis 1997 Apr;130(1–2):71–85
Chemical modification of bovine tissues by dye-mediated photooxidation. McIlroy BK, et al. **J Heart Valve Dis** 1997 Jul;6(4):416–23
Immunohistochemical analysis of hepatocyte growth factor in human coronary atherectomy specimens: comparison with transforming growth factor beta isoforms. Ueda H, et al. **Virchows Arch** 1997 May;430(5):407–15

CYTOLOGY

Effect of intra-arterial environment on endothelialization and basement membrane organization in polytetrafluoroethylene grafts. Ombrellaro MP, et al.
Am J Surg 1997 Jul;174(1):29–32
Differentiated properties and proliferation of arterial smooth muscle cells in culture. Thyberg J. **Int Rev Cytol** 1996; 169:183–265 (520 ref.)
Mitogen-activated protein kinase phosphatase-1 in rat arterial smooth muscle cell proliferation. Lai K, et al.
J Clin Invest 1996 Oct 1;98(7):1560–7
Comparison of the effects of mechanical stimulation on venous and arterial smooth muscle cells in vitro. Dethlefsen SM, et al. **J Vasc Res** 1996 Sep–Oct;33(5):405–13
Histological study of decidual spiral arteries and the presence of maternal erythrocytes in the intervillous space during the first trimester of normal human pregnancy. Meekins JW, et al. **Placenta** 1997 Jul–Aug;18(5–6):459–64
Organ culture of arteries for experimental studies of vascular endothelium in situ. Merrick AF, et al.
Transpl Immunol 1997 Mar;5(1):3–9

DRUG EFFECTS

Use of tolazoline to counteract vasospasm in peripheral arterial catheters in neonates. Lemke RP, et al.
Acta Paediatr 1996 Dec;85(12):1497–8
Differentiated effects of vasodilators on myogenic reactivity during partial inhibition of myogenic tone in pressurized skeletal muscle small arteries of the rat. Bülow A.
Acta Physiol Scand 1996 Aug;157(4):419–26
Interactions of minoxidil with vasoconstrictive agents in isolated rat tail artery. Wasiński R, et al.
Acta Pol Pharm 1995 May–Jun;52(3):253–6
Effect of short-term treatment of SHR with the novel calcium channel antagonist mibefradil on function of small arteries. Li JS, et al. **Am J Hypertens** 1997 Jan;10(1):94–100
Bradykinin-mediated relaxation of isolated maternal resistance arteries in normal pregnancy and preeclampsia. Knock GA, et al. **Am J Obstet Gynecol** 1996 Dec; 175(6):1668–74
1,25(OH)2D3 modulates intracellular Ca2+ and force generation in resistance arteries. Bian K, et al.
Am J Physiol 1996 Jan;270(1 Pt 2):H230–7
Response of resistance arteries to reduced PO2 and vasodilators during hypertension and elevated salt intake. Liu Y, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H869–77
Arginine vasopressin modulation of arterial baroreflex responses in fetal and newborn sheep. Nuyt AM, et al.
Am J Physiol 1996 Dec;271(6 Pt 2):R1643–53
Tamoxifen inhibits arterial accumulation of LDL degradation products and progression of coronary artery atherosclerosis in monkeys. Williams JK, et al.
Arterioscler Thromb Vasc Biol 1997 Feb;17(2):403–8
Effect of the oxidation state of LDL on the modulation of arterial vasomotor response in vitro. Mougenot N, et al.
Atherosclerosis 1997 Sep;133(2):183–92
Spasmolytic effect of efonidipine hydrochloride in isolated canine coronary artery: comparison with the effects of nifedipine and nisoldipine. Jin H, et al. **Biol Pharm Bull** 1997 Feb;20(2):196–200
The comparison of the responsiveness of human isolated internal mammary and gastroepiploic arteries to levcromakalim: an alternative approach to the management of graft spasm. Akar F, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):49–56
5-HT1D receptor agonists and human coronary artery reactivity in vitro: crossover comparisons of 5-HT and sumatriptan with rizatriptan and L-741,519. Longmore J, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):431–41
Inhibitory effects of TAK-044 on endothelin induced vasoconstriction in various canine arteries and porcine coronary arteries: a comparison with selective ETA and ETB receptor antagonists. Awane-Igata Y, et al.
Br J Pharmacol 1997 Feb;120(3):516–22
Angiotensin II receptors involved in the enhancement of noradrenergic transmission in the caudal artery of the spontaneously hypertensive rat. Cox SL, et al.
Br J Pharmacol 1996 Nov;119(5):965–75
Multiple prejunctional actions of angiotensin II on noradrenergic transmission in the caudal artery of the rat. Cox SL, et al. **Br J Pharmacol** 1996 Nov;119(5):976–84
Action of probucol in arteries from normal and hypercholesterolaemic rabbits. Del Rio M, et al.
Br J Pharmacol 1996 Aug;118(7):1639–44
Regional differences in the arterial response to vasopressin: role of endothelial nitric oxide. García-Villalón AL, et al.
Br J Pharmacol 1996 Aug;118(7):1848–54
Purinoceptor modulation of noradrenaline release in rat tail artery: tonic modulation mediated by inhibitory P2Y- and facilitatory A2A-purinoceptors. Gonçalves J, et al.
Br J Pharmacol 1996 Jan;117(1):156–60
Agmatine, an endogenous modulator of noradrenergic neurotransmission in the rat tail artery. González C, et al.
Br J Pharmacol 1996 Oct;119(4):677–84
Evidence that mechanisms dependent and independent of nitric oxide mediate endothelium-dependent relaxation to bradykinin in human small resistance-like coronary arteries. Kemp BK, et al. **Br J Pharmacol** 1997 Mar;120(5):757–62
Pharmacological characterization of an alpha 1A-adrenoceptor mediating contractile responses to noradrenaline in isolated caudal artery of rat. Lachnit WG, et al. **Br J Pharmacol** 1997 Mar;120(5):819–26
Augmented contraction of the human isolated coronary artery by sumatriptan: a possible role for endogenous thromboxane. Maassen VanDenBrink A, et al.
Br J Pharmacol 1996 Nov;119(5):855–62
Endothelial modulation of alpha 1-adrenoceptor contractile responses in the tail artery of spontaneously hypertensive rats. Tabernero A, et al. **Br J Pharmacol** 1996 Oct; 119(4):765–71
Sources of calcium and alpha 1-adrenoceptor-mediated contraction in rat tail artery. Tabernero A, et al.
Br J Pharmacol 1996 Aug;118(8):2067–72
Vasoconstrictor responses via P2X-receptors are selectively antagonized by NF023 in rabbit isolated aorta and saphenous artery. Ziyal R, et al. **Br J Pharmacol** 1997 Mar; 120(5):954–60
Why aspirin cannot prevent arterial thrombosis [letter; comment] Altman R, et al. **Circulation** 1996 Dec 1; 94(11):3002–3. Comment on: Circulation 1996 Mar 15;93(6):1201–5.
Angiotensin II increases tissue endothelin and induces vascular hypertrophy: reversal by ET(A)-receptor antagonist. Moreau P, et al. **Circulation** 1997 Sep 2; 96(5):1593–7
Cardiorespiratory and renal responses to arterial chemoreceptor stimulation by hypoxia or almitrine in men. Brauer H, et al. **Clin Exp Pharmacol Physiol** 1996 Dec; 23(12):1021–7
Effect of arterial chemoreceptor stimulation with almitrine bismesylate on plasma renin activity, aldosterone, ACTH and cortisol in anaesthetized, artificially ventilated cats. Honig A, et al. **Clin Exp Pharmacol Physiol** 1996 Feb; 23(2):106–10
Remodelling of resistance arteries in genetically hypertensive rats by treatment with valsartan, an angiotensin II receptor antagonist. Ledingham JM, et al.
Clin Exp Pharmacol Physiol 1996 Jun–Jul;23(6–7):576–8
Towards optimization of wave reflection: therapeutic goal for tomorrow? O'Rourke MF.
Clin Exp Pharmacol Physiol 1996 Aug;23(8):S11–5
alpha1-Adrenoceptor subtypes mediating the contraction of arteries in spontaneously hypertensive rats. Fujimoto S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S91–3
Arterial wall mechanical characteristics after treatment in collagenase: an in vitro aneurysm model. Dadgar L, et al.
Clin Invest Med 1997 Feb;20(1):25–34
Oral naftidrofuryl. A review of its pharmacology and therapeutic use in the management of peripheral occlusive arterial disease. Barradell LB, et al. **Drugs Aging** 1996 Apr; 8(4):299–322 (136 ref.)
Impaired arterial but not venous responsiveness to nitroglycerin in non-insulin-dependent diabetes mellitus. Huvers FC, et al. **Eur J Clin Invest** 1997 May;27(5):360–5
Interaction of 5-methyl-urapidil with alpha 1-adrenoceptors in canine blood vessels: impact of pacing-induced heart failure. Forster C. **Eur J Pharmacol** 1996 Dec 27; 318(1):55–63
Relaxant effect of levcromakalim in isolated human small subcutaneous arteries. Hüsken BC, et al.
Eur J Pharmacol 1995 Dec 20;287(3):313–6
Regulation of intracellular Ca2+ by 8-bromoguanosine 3',5'-cyclic monophosphate, felodipine and ryanodine in rat caudal artery. Lum Min SA, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):97–100
Relaxant effects of 17 beta-estradiol in the rat tail artery are greater in females than males. McNeill AM, et al.
Eur J Pharmacol 1996 Jul 25;308(3):305–9
Effect of ouabain on adenosine receptor-mediated hyperpolarization in porcine coronary artery smooth muscle. Olanrewaju HA, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):185–90
Analysis of the vasodilator nerve function by nicotine in isolated dog skin artery. Uchiyama M, et al.
Eur J Pharmacol 1997 Feb 19;321(1):19–25
Influence of cAMP on cerebrospinal fluid opioid concentration: role in cAMP-induced pial artery dilation. Wilderman MJ, et al. **Eur J Pharmacol** 1996 Aug 15; 309(3):243–9
Endothelium-independent contractile and relaxant responses to histamine in the rabbit aorta and common carotid, mesenteric, renal, and femoral arteries. Krstić MK, et al.
Gen Pharmacol 1996 Apr;27(3):529–33
Influence of the angiotensin II type 1 receptor gene polymorphism on the effects of perindopril and nitrendipine on arterial stiffness in hypertensive individuals. Benetos A, et al. **Hypertension** 1996 Dec;28(6):1081–4
Influence of isradipine and spirapril on left ventricular hypertrophy and resistance arteries. Thürmann PA, et al.
Hypertension 1996 Sep;28(3):450–6
Hormonal therapy increases arterial compliance in postmenopausal women. Rajkumar C, et al.
J Am Coll Cardiol 1997 Aug;30(2):350–6
Liposome encapsulation attenuates hemoglobin-induced vasoconstriction in rabbit arterial segments. Rudolph AS, et al. **J Appl Physiol** 1997 Jun;82(6):1826–35
Effect of clenbuterol on the modulation of noradrenaline release in the rat tail artery. Encabo A, et al.
J Auton Pharmacol 1996 Oct;16(5):243–50
Ouabain amplifies contractile responses to phenylephrine in rat tail arteries in hypertension. Songu-Mize E, et al.
J Basic Clin Physiol Pharmacol 1995;6(3–4):309–19
Effects of in vivo and in vitro L-arginine supplementation on healthy human vessels. Chin-Dusting JP, et al.
J Cardiovasc Pharmacol 1996 Jul;28(1):158–66
Inhibition of vasoconstriction by phosphodiesterase III inhibitor milrinone in human conduit arteries used as coronary bypass grafts. He GW, et al.
J Cardiovasc Pharmacol 1996 Aug;28(2):208–14
Effect of AT1 angiotensin-receptor blockade on structure and function of small arteries in SHR. Li JS, et al.
J Cardiovasc Pharmacol 1997 Jul;30(1):75–83
Contractile effects of neuropeptide Y in human subcutaneous resistance arteries are mediated by Y1 receptors. Nilsson T, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):764–8
Antihypertensive effects and arterial haemodynamic alterations during angiotensin converting enzyme inhibition. London GM, et al. **J Hypertens** 1996 Sep; 14(9):1139–46
Vascular and neuronal hypertensive brain damage: protective effect of treatment with nicardipine. Amenta F, et al.
J Hypertens Suppl 1996 Oct;14(3):S29–35
Actions of diaspirin cross-linked hemoglobin on isolated rat and dog vessels. Hart JL, et al. **J Lab Clin Med** 1997 Mar; 129(3):356–63
Role of vasopressin in altered pial artery responses to dynorphin and beta-endorphin following brain injury. Armstead WM. **J Neurotrauma** 1996 Mar;13(3):115–23
Vasodilator action of calcium antagonists in coronary arteries in vitro. Kalsner S. **J Pharmacol Exp Ther** 1997 May; 281(2):634–42
Effects of adenyl purines in human uterine arteries and uterine myometrium. Tsai EM, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1996 Oct; 12(10):561–6
Statins do more than just lower cholesterol [see comments] [published erratum appears in Lancet 1997 Jan 18;349(9046):214] Vaughan CJ, et al. **Lancet** 1996 Oct 19; 348(9034):1079–82 (29 ref.). Comment in: Lancet 1996 Dec 7;348(9041):1582. Comment in: Lancet 1996 Dec 7;348(9041):1582–3. Comment in: Lancet 1996 Dec 7;348(9041):1583.
Decreased CGRP level with increased sensitivity to CGRP in the pial arteries of spontaneously hypertensive rats. Hong KW, et al. **Life Sci** 1997;60(10):697–705
Regulation of the gene-encoding angiotensin II receptor in vascular tissue. Wang DH, et al. **Microcirculation** 1996 Jun; 3(2):237–9 (22 ref.)
Adenosine modulation of neurotransmission in human uterine arteries. Tsai EM, et al. **Mol Hum Reprod** 1996 Feb; 2(2):105–9
Neomycin inhibits K+-induced force and Ca2+ channel current in rat arterial smooth muscle. Langton PD, et al.
Pflugers Arch 1996 Nov–Dec;433(1–2):188–93
Effect of the new HMG-CoA reductase inhibitor cerivastatin (BAY W 6228)on migration, proliferation and cholesterol synthesis in arterial myocytes. Corsini A, et al.
Pharmacol Res 1996 Jan;33(1):55–61
[Testing lipid metabolism in aortic walls of rats subjected to year-long cadmium intoxication] Janik A, et al.
Folia Med Cracov 1995;36(1–4):47–52 (Eng. Abstr.) **(Pol)**

EMBRYOLOGY

Developmental changes in flow-wave propagation velocity in embryonic chick vascular system. Yoshigi M, et al.
Am J Physiol 1997 Sep;273(3 Pt 2):H1523–9
The posterior gastric and superior polar arteries in human fetuses. Pityński K, et al. **Folia Morphol (Warsz)** 1996; 55(1):43–9
Fetal venous and arterial flow velocity wave forms between eight and twenty weeks of gestation. Van Splunder P, et al. **Pediatr Res** 1996 Jul;40(1):158–62

ENZYMOLOGY

NH2-terminal-inserted myosin II heavy chain is expressed in smooth muscle of small muscular arteries. DiSanto ME, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1532–42
Localization of nonpancreatic secretory phospholipase A2 in normal and atherosclerotic arteries. Activity of the

isolated enzyme on low-density lipoproteins. Hurt-Camejo E, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):300-9

Removal of an inhibitor of marker enzyme activity in artery extracts by chelating agents. Oswald H, et al. **Biotechniques** 1997 Jan;22(1):78-81

Affinity of angiotensin I-converting enzyme (ACE) inhibitors for N- and C-binding sites of human ACE is different in heart, lung, arteries, and veins. Bevilacqua M, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):494-9

Acute and chronic in vivo inhibition of angiotensin-converting enzyme by perindopril in the endothelium and adventitia of large arteries and organs of the rabbit. Zhuo J, et al. **J Cardiovasc Pharmacol** 1997 Mar; 29(3):297-310

GROWTH & DEVELOPMENT

Indicial functions of arterial remodeling in response to locally altered blood pressure. Liu SQ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1323-33

Alterations of mRNA levels of alpha 1-adrenoceptor subtypes with maturation and ageing in different rat blood vessels. Xu KM, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):415-7

Developmental changes in the contractile system of the mesenteric small artery of rabbit. Nakanishi T, et al. **Pediatr Res** 1997 Jan;41(1):65-71

IMMUNOLOGY

Vascular dendritic cells and atherosclerosis. Bobryshev YV, et al. **Pathol Res Pract** 1996 May;192(5):462-7

INJURIES

A reassessment of Doppler pressure indices in the detection of arterial lesions in proximity penetrating injuries of extremities: a prospective study. Nassoura ZE, et al. **Am J Emerg Med** 1996 Mar;14(2):151-6

Regulation and function of an activation-dependent epitope of the beta 1 integrins in vascular cells after balloon injury in baboon arteries and in vitro. Koyama N, et al. **Am J Pathol** 1996 Mar;148(3):749-61

Missed arterial injuries in military patients. Yilmaz AT, et al. **Am J Surg** 1997 Feb;173(2):110-4

Upper-extremity arterial injury. Pillai L, et al. **Am Surg** 1997 Mar;63(3):224-7

Adenovirus-mediated transfer of a dominant-negative H-ras suppresses neointimal formation in balloon-injured arteries in vivo. Ueno H, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):898-904

Nuclear factor-kappaB activity and arterial response to balloon injury. Cercek B, et al. **Atherosclerosis** 1997 May; 131(1):59-66

Long-term outcomes after upper limb arterial injuries. van der Sluis CK, et al. **Can J Surg** 1997 Aug;40(4):265-70

Artery wall damage and platelet uptake from so-called atraumatic arterial clamps: an experimental study. Margovsky AI, et al. **Cardiovasc Surg** 1997 Feb;5(1):42-7

Platelet-derived growth factor and arterial response to injury [editorial; comment] Hart CE, et al. **Circulation** 1997 Feb 4;95(3):555-6. Comment on: Circulation 1997 Feb 4;95(3):669-76.

A ten year audit of surgery for vascular trauma in a British teaching hospital. Magee TR, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):424-7

Late arteriovenous fistulas and pseudoaneurysms of the extremity secondary to civilian firearms. Porcellini M, et al. **G Chir** 1997 Mar;18(3):91-6

Adenovirus-mediated gene transfer into injured arteries: quantitative analysis of repeated administration. Ueno H. **Gerontology** 1996;42 Suppl 1:25-36

Traumatic arterial damage after fine-needle aspirational cytology in mammary complex sclerosing lesions. Davies JD, et al. **Histopathology** 1996 Jan;28(1):65-70

Vascular injuries associated with elbow fractures and dislocations. Moneim MS, et al. **Int Angiol** 1995 Sep; 14(3):307-12

Changing patterns of arterial injuries associated with fractures and dislocations. Atteberry LR, et al. **J Am Coll Surg** 1996 Oct;183(4):377-83

Effects of pemirolast and tranilast on intimal thickening after arterial injury in the rat. Miyazawa N, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):157-62

Tourniquet occlusion technique for lower extremity artery reconstruction in war wound. Lovric Z, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):153-5

Monocyte chemoattractant protein-1 gene expression in injured pig artery coincides with early appearance of infiltrating monocyte/macrophages. Wysocki SJ, et al. **J Cell Biochem** 1996 Sep 1;62(3):303-13

Civilian vascular trauma: an experience of 54 cases. Bhargava JS, et al. **J Indian Med Assoc** 1996 Feb;94(2):47-9

Arterial injuries of the lower extremity from blunt trauma. Sriussadaporn S. **J Med Assoc Thai** 1997 Feb;80(2):121-9

The effect of combined treatment with dextran 40 and acetylsalicylic acid on patency in severely traumatized small veins and arteries: an experimental study in the rabbit. Salemark L, et al. **J Reconstr Microsurg** 1996 May; 12(4):221-6

Lumbar artery hemorrhage: unusual cause of shock treated by angiographic embolization. Armstrong NN, et al. **J Trauma** 1997 Mar;42(3):544-5

Isolated avulsion of the middle colic artery with colonic infarction after blunt abdominal trauma. Patel S, et al. **J Trauma** 1997 Jul;43(1):137-9

Natural history of arterial injuries diagnosed with arteriography. Hoffer EK, et al. **J Vasc Interv Radiol** 1997 Jan-Feb;8(1 Pt 1):43-53

Preliminary clinical outcome and imaging criterion for endovascular prosthesis development in high-risk patients who have aortoiliac and traumatic arterial lesions. White RA, et al. **J Vasc Surg** 1996 Oct;24(4):556-69; discussion 569-71

Influence of early fibrinolysis inhibition on thrombus formation following microvascular trauma. Zhang B, et al. **Microsurgery** 1996;17(5):278-85

Clinical assessment and arteriography for patients with penetrating extremity injuries: a review of 500 cases with the Veterans Affairs West Side Medical Center. Espinosa GA, et al. **Mil Med** 1997 Jan;162(1):19-23

Combined vascular injuries and limb fractures. Porcellini M, et al. **Minerva Cardioangiol** 1997 Apr;45(4):131-8

Superior gluteal artery injury during iliac bone grafting for spinal fusion. A case report and literature review. Lim EV, et al. **Spine** 1996 Oct 15;21(20):2376-8 (10 ref.)

Damage control for vascular injuries. Aucar JA, et al. **Surg Clin North Am** 1997 Aug;77(4):853-62 (27 ref.)

[Pelvic fracture with shock-inducing retroperitoneal bleeding and concomitant lower extremity ischemia syndrome: discussion of management exemplified by a case report] Furrer M, et al. **Swiss Surg** 1996;2(6):238-43 (Eng. Abstr.) **(Ger)**

INNERVATION

Uptake1, Uptake2 and release of 3H-noradrenaline in ovarian artery and in subovarian veno-arterial network of pigs during the ovarian cycle. Dynarowicz I, et al. **Arch Vet Pol** 1994;34(3-4):275-86

Beta-adrenoceptor mediated facilitation of noradrenaline and adenosine 5'-triphosphate release from sympathetic nerves supplying the rat tail artery. Brock JA, et al. **Br J Pharmacol** 1997 Mar;120(5):769-76

Effect of 8-sulfophenyl theophylline on endogenous noradrenaline release from sympathetic nerves of the rabbit ear artery. Ishii R, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):395-6

Analysis of the vasodilator nerve function by nicotine in isolated dog skin artery. Uchiyama M, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):19-25

Absence of innervation of the uteroplacental arteries in normal and abnormal human pregnancies. Khong TY, et al. **Gynecol Obstet Invest** 1997;43(2):89-93

Non-noradrenergic sympathetic neurons project to extramuscular feed arteries and proximal intramuscular arteries of skeletal muscles in guinea-pig hindlimbs. Anderson RL, et al. **J Auton Nerv Syst** 1996 Oct 7; 61(1):51-60

Effects of dl-norephedrine and its enantiomers on norepinephrine uptake and release in isolated rat caudal artery. Hricik JG, et al. **J Auton Nerv Syst** 1996 Nov 6; 61(2):186-90

Identification of histamine H3 receptors in the tail artery from normotensive and spontaneously hypertensive rats. Godlewski G, et al. **J Cardiovasc Pharmacol** 1997 Jun; 29(6):801-7

METABOLISM

Effect of cilazapril and salt on Ca2+ extrusion in arterial smooth muscle of Dahl rats. Ashida T, et al. **Am J Hypertens** 1997 May;10(5 Pt 2):107S-111S

Angiotensin II release from rabbit intrarenal arteries: a critical assessment. Zimmerman BG, et al. **Am J Hypertens** 1997 Mar;10(3):306-14

Regulation and function of an activation-dependent epitope of the beta 1 integrins in vascular cells after balloon injury in baboon arteries and in vitro. Koyama N, et al. **Am J Pathol** 1996 Mar;148(3):749-61

Chronic increases in blood flow upregulate endothelin-B receptors in arterial smooth muscle. Barber DA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H65-71

Low PO2 inhibits calcium channel activity in arterial smooth muscle cells. Franco-Obregón A, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2290-9

Acetylcholine- and flow-induced production and release of nitric oxide in arterial and venous endothelial cells. Fukaya Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H99-106

ATP-sensitive potassium channels in cultured arterial segments. Kleppisch T, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2462-8

Redistribution of intracellular Ca2+ stores after beta-adrenergic stimulation of rat tail artery SMC. Miyashita Y, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H244-55

Localization of the vasopressin V1a and V2 receptors within the renal cortical and medullary circulation. Park F, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R243-51

A model for the initiation and growth of extracellular lipid liposomes in arterial intima. Yin Y, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H1033-46

Intermediate filament proteins in adult human arteries. Johansson B, et al. **Anat Rec** 1997 Apr;247(4):439-48

Esterified estrogens with and without methyltestosterone decrease arterial LDL metabolism in cynomolgus monkeys. Wagner JD, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec; 16(12):1473-80

Tamoxifen inhibits arterial accumulation of LDL degradation products and progression of coronary artery atherosclerosis in monkeys. Williams JK, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):403-8

Accumulation of lipoprotein fractions and subfractions in the arterial wall, determined in an in vitro perfusion system. Björnheden T, et al. **Atherosclerosis** 1996 Jun; 123(1-2):43-56

Effect of olive and sunflower oils on low density lipoprotein level, composition, size, oxidation and interaction with arterial proteoglycans. Carmena R, et al. **Atherosclerosis** 1996 Sep 6;125(2):243-55

Endothelin-1 is increased overlying atherosclerotic plaques in human arteries [published erratum appears in Atherosclerosis 1996 Oct 25;126(2):345-6] Jones GT, et al. **Atherosclerosis** 1996 Jul;124(1):25-35

Plasma protein entry and retention in the vascular wall: possible factors in atherogenesis. Lever MJ, et al. **Can J Physiol Pharmacol** 1996 Jul;74(7):818-23

Pressure and angiotensin II synergistically induce aortic fibronectin expression in organ culture model of rabbit aorta. Evidence for a pressure-induced tissue renin-angiotensin system. Bardy N, et al. **Circ Res** 1996 Jul;79(1):70-8

Lipoprotein lipase increases lipoprotein binding to the artery wall and increases endothelial layer permeability by formation of lipolysis products. Rutledge JC, et al. **Circ Res** 1997 Jun;80(6):819-28

Human connective tissue growth factor is expressed in advanced atherosclerotic lesions. Oemar BS, et al. **Circulation** 1997 Feb 18;95(4):831-9

Effects of low-dose heparin infusion on arterial endothelin-1 release in humans. Piatti PM, et al. **Circulation** 1996 Dec 1;94(11):2703-7

Activation of endogenous c-Src or a related tyrosine kinase by intracellular (pY)EEI peptide increases voltage-operated calcium channel currents in rabbit ear artery cells. Wijetunge S, et al. **FEBS Lett** 1996 Dec 9; 399(1-2):63-6

Increased arterial desaturation in trained cyclists during maximal exercise at 580 m altitude. Gore CJ, et al. **J Appl Physiol** 1996 Jun;80(6):2204-10

Variation in mRNA expression of alpha-adrenergic, neurokinin and muscarinic receptors amongst four arteries of the rat. Phillips JK, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1-2):85-93

Lipoprotein trafficking in vascular cells. Molecular Trojan horses and cellular saboteurs. Hajjar DP, et al. **J Biol Chem** 1997 Sep 12;272(37):22975-8 (64 ref.)

Reactive nitrogen intermediates promote low density lipoprotein oxidation in human atherosclerotic intima. Leeuwenburgh C, et al. **J Biol Chem** 1997 Jan 17; 272(3):1433-6

Pulsatile albumin transport in large arteries: a numerical simulation study. Rappitsch G, et al. **J Biomech Eng** 1996 Nov;118(4):511-9

Monocyte chemoattractant protein-1 gene expression in injured pig artery coincides with early appearance of infiltrating monocyte/macrophages. Wysocki SJ, et al. **J Cell Biochem** 1996 Sep 1;62(3):303-13

Gap junction localization and connexin expression in cytochemically identified endothelial cells of arterial tissue. Yeh HI, et al. **J Histochem Cytochem** 1997 Apr; 45(4):539-50

Pharmacokinetics and pharmacodynamics of pirmenol enantiomers in coronary artery ligated dogs. Janiczek N, et al. **J Pharm Sci** 1997 Apr;86(4):443-9

Acetylcholine-induced K+ currents in smooth muscle cells of intact rat small arteries. Weidelt T, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):617-30

Connexin43 gene expression in the rabbit arterial wall: effects of hypercholesterolemia, balloon injury and their combination. Polacek D, et al. **J Vasc Res** 1997 Jan-Feb; 34(1):19-30

X-ray imaging technique for in vitro tissue composition measurements using saline/iodine displacement: experimental verification. Moreau M, et al. **Med Phys** 1997 Mar;24(3):351-60

The role of heat shock proteins in protection and pathophysiology of the arterial wall. Xu Q, et al. **Mol Med Today** 1996 Sep;2(9):372-9 (40 ref.)

Reciprocal relation between VEGF and NO in the regulation of endothelial integrity. Tsurumi Y, et al. **Nat Med** 1997 Aug;3(8):879-86

Regional arteriovenous differences in P(CO2) and pH can reflect critical organ oxygen delivery during endotoxemia. Zhang H, et al. **Shock** 1996 May;5(5):349-59

PATHOLOGY

Prostacyclin and nitric oxide-related gene transfer in preventing arterial thrombosis and restenosis. Wu KK. **Agents Actions Suppl** 1997;48:107-23 (35 ref.)

Probucol suppresses oxidant stress in hypertensive arteries. Immunohistochemical evidence. Sharma RC, et al. **Am J Hypertens** 1996 Jun;9(6):577-90

Immunohistochemical findings of arterial fibrinoid necrosis in major and lingual minor salivary glands of primary Sjögren's syndrome. Takahashi H, et al. **Anal Cell Pathol** 1996 Dec;12(3):145-57

Inhibition of collagen synthesis, smooth muscle cell

proliferation, and injury-induced intimal hyperplasia by halofuginone. Nagler A, et al.
Arterioscler Thromb Vasc Biol 1997 Jan;17(1):194–202

Water diffusion properties of human atherosclerosis and thrombosis measured by pulse field gradient nuclear magnetic resonance. Toussaint JF, et al.
Arterioscler Thromb Vasc Biol 1997 Mar;17(3):542–6

Prevalence and association of atherosclerosis at three different arterial sites in patients with type III hyperlipoproteinemia. Dobmeyer J, et al. **Atherosclerosis** 1996 Jan 5;119(1):89–98

Is arterial remodeling truly a compensatory biological reaction? A mechanical deformation hypothesis. Oniki T, et al. **Atherosclerosis** 1997 Jul 11;132(1):115–8

Aging of the vascular wall and atherogenesis: role of the elastin–laminin receptor [published erratum appears in Atherosclerosis 1996 Sep 27;126(1):173] Robert L.
Atherosclerosis 1996 Jun;123(1–2):169–79 (56 ref.)

Intimal hyperplasia in human uterine arteries accompanied by impaired synergism between prostaglandin I2 and nitric oxide. Obayashi S, et al. **Br J Pharmacol** 1996 Nov; 119(5):1072–8

Angiotensin II increases tissue endothelin and induces vascular hypertrophy: reversal by ET(A)-receptor antagonist. Moreau P, et al. **Circulation** 1997 Sep 2; 96(5):1593–7

Changes in various tissues in the arterial wall of spontaneously hypertensive rats. Saito N, et al.
Clin Exp Pharmacol Physiol Suppl 1995;1:S126–8

Blood pressure parameters as determinants of small artery structure in human essential hypertension. Cooper A, et al. **Clin Sci (Colch)** 1997 Jun;92(6):551–7

Sephadex induced granulomatous reaction in rats. Buyssens N, et al. **Exp Toxicol Pathol** 1995 Nov;47(5):381–90

Vascular remodeling [letter; comment] Korner PI, et al.
Hypertension 1997 Apr;29(4):1065–6. Comment on: Hypertension 1989 Jun;13(6 Pt 2):968–72. Comment on: Hypertension 1996 Sep;28(3):505–6.

Vascular hypertrophy and remodeling in secondary hypertension. Rizzoni D, et al. **Hypertension** 1996 Nov; 28(5):785–90

Collateral circulation in occlusion of lower limbs arteries: an anatomical study and statistical research in 35 old subjects. Macchi C, et al. **Ital J Anat Embryol** 1996 Apr–Jun;101(2):89–96

Smooth muscle phenotypes in developing and atherosclerotic human arteries demonstrated by myosin expression. Aikawa M, et al. **J Atheroscler Thromb** 1995;2(1):14–23 (12 ref.)

Theoretical study of the effect of stress-dependent remodeling on arterial geometry under hypertensive conditions. Rachev A. **J Biomech** 1997 Aug;30(8):819–27

Compliance and diameter mismatch affect the wall shear rate distribution near an end-to-end anastomosis. Weston MW, et al. **J Biomech** 1996 Feb;29(2):187–98

Effects of pemirolast and tranilast on intimal thickening after arterial injury in the rat. Miyazawa N, et al.
J Cardiovasc Pharmacol 1997 Aug;30(2):157–62

Fibromuscular dysplasia in intramuscular arteries of Japanese quail (Coturnix coturnix japonica). Braga IS 3rd, et al.
J Comp Pathol 1996 Feb;114(2):123–30

Structure and function of resistance arteries of hypertensive patients treated with a beta-blocker or a calcium channel antagonist. Schiffrin EL, et al. **J Hypertens** 1996 Oct; 14(10):1247–55

How to assess vascular remodelling in small and medium-sized muscular arteries in humans. Schiffrin EL, et al. **J Hypertens** 1997 Jun;15(6):571–84 (112 ref.)

Resistance and conduit arteries following converting enzyme inhibition in hypertension. Safar ME, et al. **J Vasc Res** 1997 Mar–Apr;34(2):67–81 (115 ref.)

Histologic study of the small pulmonary arteries in 38 patients with pulmonary atresia and intact ventricular septum. Tanaka T, et al. **Jpn Circ J** 1996 May;60(5):293–9

Cardiac and arterial interactions in end-stage renal disease. London GM, et al. **Kidney Int** 1996 Aug;50(2):600–8

Human arterial smooth muscle cell strains derived from patients with moyamoya disease: changes in biological characteristics and proliferative response during cellular aging in vitro. Fukai N, et al. **Mech Ageing Dev** 1994 Jul; 75(1):21–33

Idiopathic arterial calcification and unexpected infant death. Byard RW. **Pediatr Pathol Lab Med** 1996 Nov–Dec; 16(6):985–94

Characterization of post mortem arterial tissue using time-resolved photoacoustic spectroscopy at 436, 461 and 532 nm. Beard PC, et al. **Phys Med Biol** 1997 Jan; 42(1):177–98

Ablation characteristics of arterial vessel walls irradiated with the pulsed dye laser—an analysis of variance. Arndt VR, et al. **Thromb Haemost** 1996 May;75(5):849–53

Transient interruption of arterial thrombosis by inhibition of factor Xa results in long-term antithrombotic effects in baboons. Kotzé HF, et al. **Thromb Haemost** 1997 Jun; 77(6):1137–42

Contributions of cellular and humoral immunity to arteriopathic lesions in transplanted mouse hearts. Russell PS, et al. **Transplant Proc** 1997 Sep;29(6):2527–8

The arterial shift features in the equine proximal sesamoid bone. Cornelissen BP, et al. **Vet Q** 1996;18 Suppl 2:S110–5

PHYSIOLOGY

Correlation between spinal cord blood flow and arterial diameter following acute spinal cord injury in rats. Ohashi T, et al. **Acta Neurochir (Wien)** 1996;138(3):322–9

Pharmacological evidence that different alpha 1 adrenoceptor subtypes mediate contraction in rabbit prostate and hypogastric artery. Delaflotte S, et al.
Acta Physiol Scand 1996 Nov;158(3):241–51

Neonatal chronic sympathectomy in normotensive rats affects pial arteries: enhanced stiffness and reduced capacity to dilate. Kåhrström J, et al. **Acta Physiol Scand** 1996 Jun; 157(2):217–24

Proceedings of the XIIIth International Symposium on Arterial Chemoreceptors. Santiago, Chile, March 25–29, 1996. **Adv Exp Med Biol** 1996;410:1–480

Modulation of voltage-gated Ca2+ channels by O2 tension. Significance for arterial oxygen chemoreception. Franco-Obregón A, et al. **Adv Exp Med Biol** 1996; 410:97–103 (283 ref.)

Mid- and long-term reproducibility of noninvasive measurements of spontaneous arterial baroreflex sensitivity in healthy volunteers. Herpin D, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):790–7

1,25(OH)2D3 modulates intracellular Ca2+ and force generation in resistance arteries. Bian K, et al.
Am J Physiol 1996 Jan;270(1 Pt 2):H230–7

Daily exercise and gender influence arterial baroreflex regulation of heart rate and nerve activity. Chen CY, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1840–8

Effect of endogenous angiotensin II on renal nerve activity and its arterial baroreflex regulation. DiBona GF, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R361–7

Comparison of linear and nonlinear formulations of the three-element windkessel model. Fogliardi R, et al.
Am J Physiol 1996 Dec;271(6 Pt 2):H2661–8

Ca2+ sequestration as a determinant of chaos and mixed-mode dynamics in agonist-induced vasomotion. Griffith TM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1696–709

Effects of long-term high-altitude hypoxemia on alpha 1-adrenergic receptors in the ovine uterine artery. Hu XQ, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1001–7

A fiber matrix model for the filtration through fenestral pores in a compressible arterial intima. Huang Y, et al.
Am J Physiol 1997 Apr;272(4 Pt 2):H2023–39

Role of cytosolic Ca2+ and protein kinase C in developing myogenic contraction in isolated rat small arteries. Karibe A, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1165–72

Ovariectomy eliminates sex differences in rat tail artery response to adrenergic nerve stimulation. Li Z, et al.
Am J Physiol 1997 Apr;272(4 Pt 2):H1819–25

Endothelial vasodilator production by uterine and systemic arteries. II. Pregnancy effects on NO synthase expression. Magness RR, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1730–40

Muscle chemoreflex causes renal vascular constriction. Mittelstadt SW, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H951–6

Method for determining distribution of reflection sites in the arterial system. Pythoud F, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):H1807–13

Increased reactivity of rat uterine arcuate artery throughout gestation and postpartum. St-Louis J, et al.
Am J Physiol 1997 Sep;273(3 Pt 2):H1148–53

Expression of a recombinant preproendothelin-1 gene in arteries stimulates vascular contractility. Schott E, et al.
Am J Physiol 1997 May;272(5 Pt 2):H2385–93

Iloprost dilates rat small arteries: role of K(ATP)- and K(Ca)-channel activation by cAMP-dependent protein kinase. Schubert R, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1147–56

Ontogeny of the arterial and cardiopulmonary baroreflex during fetal and postnatal life. Segar JL. **Am J Physiol** 1997 Aug;273(2 Pt 2):R457–71 (148 ref.)

Role of endogenous ANG II and AT1 receptors in regulating arterial baroreflex responses in newborn lambs. Segar JL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1862–73

Nitric oxide-mediated neurogenic vasodilatation in isolated monkey lingual arteries. Toda N, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1582–8

Inhibition of oxidative phosphorylation, vascular tone, and [Ca2+]i in the perfused rat tail artery. Tran NN, et al.
Am J Physiol 1997 Sep;273(3 Pt 1):C834–42

Regulatory interaction between myogenic and shear-sensitive arterial segments: conditions for stable steady states. Harrigan TP. **Ann Biomed Eng** 1997 Jul–Aug; 25(4):635–43

Differences in peripheral arterial and venous hemorheologic parameters. Mokken FC, et al. **Ann Hematol** 1996 Sep; 73(3):135–7

The effect of neuropeptides on vessel tone and cAMP production. Yao W, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:784–8

Intramural blood flow of skeletal muscle ventricles functioning as aortic counterpulsators. van Doorn CA, et al. **Ann Thorac Surg** 1997 Jul;64(1):86–93

The Seventh Heymans Memorial Lecture Ghent, February 18, 1995. Physiological aspects of small arteries. Mulvany MJ. **Arch Int Pharmacodyn Ther** 1996 Jan–Feb;331(1):1–31 (141 ref.)

Arterial compliance in obese subjects is improved with dietary plant n-3 fatty acid from flaxseed oil despite increased LDL oxidizability. Nestel PJ, et al.
Arterioscler Thromb Vasc Biol 1997 Jun;17(6):1163–70

Sampling arterialised-venous blood from a dorsal-hand vein during exercise without compromising a competitive cycling position. Weston SB, et al.
Aust J Sci Med Sport 1997 Jun;29(2):51–4

Direction of blood flow and changes in resistance of major arteries supplying the ovary of the pregnant rat. Massa HM, et al. **Biol Reprod** 1997 Jul;57(1):43–8

Alternate method for the analysis of residual strain in the arterial wall. Li X, et al. **Biorheology** 1996 Nov–Dec; 33(6):439–49

Plasticity of contractile endothelin-B receptors in human arteries after organ culture. Adner M, et al.
Br J Pharmacol 1996 Nov;119(6):1159–66

Contribution of alpha-adrenoceptors to depolarization and contraction evoked by continuous asynchronous sympathetic nerve activity in rat tail artery. Brock JA, et al. **Br J Pharmacol** 1997 Apr;120(8):1513–21

An evolution of pulse speed in arteries. Demiray H.
Bull Math Biol 1996 Jan;58(1):129–40

The effect of shear stress on solitary waves in arteries. Demiray H. **Bull Math Biol** 1997 Sep;59(5):993–1012

Arterial remodeling: relation to hemodynamics. Langille BL.
Can J Physiol Pharmacol 1996 Jul;74(7):834–41 (100 ref.)

Termination of reentry by lidocaine in the tricuspid ring in vitro. Role of cycle-length oscillation, fast use-dependent kinetics, and fixed block. Fei H, et al. **Circ Res** 1997 Feb; 80(2):242–52

In vitro modulation of a resistance artery diameter by the tissue renin-angiotensin system of a large donor artery. Henrion D, et al. **Circ Res** 1997 Feb;80(2):189–95

Serial assessment of the cardiovascular system in normal pregnancy. Role of arterial compliance and pulsatile arterial load. Poppas A, et al. **Circulation** 1997 May 20; 95(10):2407–15

Effect of postural changes on arterial baroreflex sensitivity assessed by the spontaneous sequence method and Valsalva manoeuvre in healthy subjects. Kardos A, et al.
Clin Auton Res 1997 Jun;7(3):143–8

Influence of gender on the level of pulse pressure: the role of large conduit arteries. Asmar R, et al.
Clin Exp Hypertens 1997 Jul–Aug;19(5–6):793–811

Mechanisms for regulation of arterial tone by Ca2+-dependent K+ channels in hypertension. Rusch NJ, et al. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1077–81 (30 ref.)

Enhanced contractile responses mediated by different 5-HT receptor subtypes in basilar arteries, superior mesenteric arteries and thoracic aortas from stroke-prone spontaneously hypertensive rats. Nishimura Y, et al.
Clin Exp Pharmacol Physiol Suppl 1995;1:S99–101

Baroreceptors in the carotid sinus contribute to arterial baroreceptor reflexes in normotensive rats. Ohta H, et al.
Clin Exp Pharmacol Physiol Suppl 1995;1:S62–3

A method for fully automated quantitative analysis of arterial flow using flow-sensitized MR images. Chwialkowski MP, et al. **Comput Med Imaging Graph** 1996 Sep–Oct; 20(5):365–78

The deletion polymorphism of the angiotensin-converting enzyme gene is related to phenotypic differences in human arteries. Buikema H, et al. **Eur Heart J** 1996 May; 17(5):787–94

Mechanisms for histamine H1 receptor-mediated vasodilation in isolated canine lingual arteries. Chiba S, et al.
Eur J Pharmacol 1997 Jun 18;329(1):63–8

A new index for assessing arterial oxygen profile in patients with respiratory failure. Iluchev D. **Folia Med (Plovdiv)** 1996;38(1):39–43

Myogenic tone attenuates pressure-induced gene expression in isolated small arteries. Allen SP, et al. **Hypertension** 1997 Aug;30(2 Pt 1):203–8

Flow-mediated vasodilatation is enhanced in normal pregnancy but reduced in preeclampsia. Cockell AP, et al. **Hypertension** 1997 Aug;30(2 Pt 1):247–51

Age-related changes in total arterial capacitance from birth to maturity in a normotensive population. de Simone G, et al. **Hypertension** 1997 Jun;29(6):1213–7

Pressure wave propagation in arteries. A model with radial dilatation for simulating the behavior of a real artery. Wang YY, et al. **IEEE Eng Med Biol Mag** 1997 Jan–Feb; 16(1):51–6

Input impedance and reflection coefficient in fractal-like models of asymmetrically branching compliant tubes. Brown DJ. **IEEE Trans Biomed Eng** 1996 Jul;43(7):715–22

Application of active contours for photochromic tracer flow extraction. Androutsos D, et al.
IEEE Trans Med Imaging 1997 Jun;16(3):284–93

Role of arterial design on pulse wave reflection in a fractal pulmonary network. Bennett SH, et al. **J Appl Physiol** 1996 Mar;80(3):1033–56

Microgravity decreases heart rate and arterial pressure in humans. Fritsch-Yelle JM, et al. **J Appl Physiol** 1996 Mar; 80(3):910–4

Venous and arterial reflex responses to positive-pressure breathing and lower body negative pressure. Peters JK, et al. **J Appl Physiol** 1997 Jun;82(6):1889–96

Liposome encapsulation attenuates hemoglobin-induced vasoconstriction in rabbit arterial segments. Rudolph AS, et al. **J Appl Physiol** 1997 Jun;82(6):1826–35

Estimation of increased flow resistance in a narrow catheterized artery—a theoretical model. Dash RK, et al.
J Biomech 1996 Jul;29(7):917–30

A quasi-linear constitutive relation for arterial wall materials.

Demiray H. **J Biomech** 1996 Aug;29(8):1011-4

Waves in initially stressed fluid-filled thick tubes. Demiray H. **J Biomech** 1997 Mar;30(3):273-6

Numerical simulation of blood flow in an artery with two successive bends. Hoogstraten HW, et al. **J Biomech** 1996 Aug;29(8):1075-83

Effects of friction and nonlinearities on the separation of arterial waves into their forward and backward components. Pythoud F, et al. **J Biomech** 1996 Nov; 29(11):1419-23

Theoretical study of the effect of stress-dependent remodeling on arterial geometry under hypertensive conditions. Rachev A. **J Biomech** 1997 Aug;30(8):819-27

Influence of non-Newtonian behavior of blood on flow in an elastic artery model. Dutta A, et al. **J Biomech Eng** 1996 Feb;118(1):111-9

A counter current vascular network model of heat transfer in tissues. Huang HW, et al. **J Biomech Eng** 1996 Feb; 118(1):120-9

Influence of elastic nonlinearity on arterial anastomotic compliance. Schajer GS, et al. **J Biomech Eng** 1996 Nov; 118(4):445-51

Numerical analysis of an extremity in a cold environment including countercurrent arterio-venous heat exchange. SHitzer A, et al. **J Biomech Eng** 1997 May;119(2):179-86

Acute thrombogenicity of intact and injured natural blood conduits versus synthetic conduits: neutrophil, platelet, and fibrin(ogen) adsorption under various shear-rate conditions. Merhi Y, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):477-85

Cardiac mechanical energy and effects on the arterial tree. Muñoz HR, et al. **J Cardiothorac Vasc Anesth** 1997 May; 11(3):289-98 (61 ref.)

Noradrenaline content and release in male and female rat tail arteries. García-Villalón AL, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):93-6

Circumferential deformation and shear stress induce differential responses in saphenous vein endothelium exposed to arterial flow. Golledge J, et al. **J Clin Invest** 1997 Jun 1;99(11):2719-26

Factors important in arterial narrowing. Schwartz SM, et al. **J Hypertens Suppl** 1996 Dec;14(5):S71-81 (119 ref.)

Arterial pulsation-dependent perivascular cerebrospinal fluid flow into the central canal in the sheep spinal cord. Stoodley MA, et al. **J Neurosurg** 1997 Apr;86(4):686-93

Direct observations of sympathetic cholinergic vasodilatation of skeletal muscle small arteries in the cat. Matsukawa K, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):213-25

Palpable uterine artery pulsation as a clinical indicator of early pregnancy [letter; comment] Sloves RB. **J Reprod Med** 1996 Oct;41(10):780. Comment on: J Reprod Med 1995 Mar;40(3):194-6.

5th International Symposium on Resistance Arteries. Cambridge, United Kingdom, September 25-29, 1996. Abstracts. **J Vasc Res** 1996 Sep;33 Suppl 2:1-57

Duplex Doppler estimation of Pourcelot resistive index in arcuate arteries of sedated normal cats. Rivers BJ, et al. **J Vet Intern Med** 1996 Jan-Feb;10(1):28-33

The role of extracellular cations in the development of myogenic contraction in isolated rat small arteries. Watanabe J, et al. **Jpn Circ J** 1996 Apr;60(4):239-46

Nociceptin: an endogenous agonist for central opioid like1 (ORL1) receptors possesses systemic vasorelaxant properties. Gumusel B, et al. **Life Sci** 1997;60(8):PL141-5

Polyvinyl alcohol cryogel: an ideal phantom material for MR studies of arterial flow and elasticity. Chu KC, et al. **Magn Reson Med** 1997 Feb;37(2):314-9

Characterisation of structural changes in the arterial elastic matrix by a new fractal feature: directional fractal curve. Jiang CF, et al. **Med Biol Eng Comput** 1997 May; 35(3):246-52

Comments on "Exponentially tapered T-tube model of systemic arterial system in dogs" [letter; comment] Burattini R, et al. **Med Eng Phys** 1996 Jun;18(4):333-8. Comment on: Med Eng Phys 1994 Sep;16(5):370-8.

Fit to diastolic arterial pressure by third-order lumped model yields unreliable estimates of arterial compliance. Fogliardi R, et al. **Med Eng Phys** 1996 Apr;18(3):225-33

Disparate effects of antidiabetic drugs on arterial contraction. Peuler JD, et al. **Metabolism** 1997 Oct;46(10):1199-205

Reduction of intracellular glutathione levels produces sustained arterial narrowing. Zhou D, et al. **Neurosurgery** 1996 Nov;39(5):991-7

Pregnancy stimulation of DNA synthesis and uterine blood flow in the guinea pig. Keyes LE, et al. **Pediatr Res** 1997 May;41(5):708-15

Naturally occurring clavines: antagonism/partial agonism at 5-HT2A receptors and antagonism at alpha 1-adrenoceptors in blood vessels. Pertz H. **Planta Med** 1996 Oct;62(5):387-92

Recovery of endothelium-dependent relaxations four weeks after ischemia and progressive reperfusion in canine coronary arteries. Lee JJ, et al. **Proc Assoc Am Physicians** 1996 Sep;108(5):362-7

Blood flow measurement using a highly filled carbon polymer sandwich sensor and an elasto-pseudo compressible vascular flow. Mehdian M, et al. **Proc Inst Mech Eng [H]** 1996;210(4):289-96

The mechanical properties of the arterial wall in hypertension. Levy BI. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):39-43 (29 ref.)

The endothelium of resistance arteries: physiology and role in hypertension. Schiffrin EL. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):17-25 (89 ref.)

Relaxant and contractile responses of porcine pulmonary arteries to thrombin and thrombin receptor activating peptides. Glusa E, et al. **Semin Thromb Hemost** 1996; 22(3):261-5

A noninvasive method to estimate arterial impedance by means of assessment of local diameter change and the local center-line blood flow velocity using ultrasound. Brands PJ, et al. **Ultrasound Med Biol** 1996;22(7):895-905

Variable effects of iodinated contrast media on different rabbit arteries in vitro. Rauch D, et al. **Urol Res** 1997;25 Suppl 1:S21-3

[Mechanical properties of the arteries. Effects of cryopreservation] Rosset E, et al. **Chirurgie** 1996; 121(4):285-97 (Eng. Abstr.) **(Fre)**

[Effects of the tone of arterial vessels on the antiorthostatic response of hemodynamics] Osadchiĭ LI, et al. **Aviakosm Ekolog Med** 1997;31(2):20-4 (Eng. Abstr.) **(Rus)**

[Increase in beta-adrenoreactivity of coronary arteries exposed to blood serum] Tsirkin VI, et al. **Dokl Akad Nauk** 1996 Dec;351(4):565-6 **(Rus)**

[The effect of polarization of the vascular wall on the ion transport and contractile activity of the rat tail artery] Didenko AV, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug-Sep;82(8-9):54-8 (Eng. Abstr.) **(Rus)**

[The effect of the initial (controllable) tonus of arterial vessels on the formation of systemic pressor reactions] Osadchiĭ LI, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug-Sep; 82(8-9):43-53 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Impairment of vascular function is associated with an age-related increase of lipid peroxidation in rats. Davidge ST, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1625-31

Corresponding pulse pressure and arterial compliance variations during ambulatory monitoring. Brinton TJ, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:310-2

Wall shear rate measurements in an elastic curved artery model. Weston MW, et al. **Biorheology** 1997 Jan-Feb; 34(1):1-17

Compliance studies in ELSA. European Lacidipine Study of Atherosclerosis. Giannattasio C, et al. **Blood Press Suppl** 1996;4:39-43

Impaired arterial reactivity following cytomegalovirus infection in the immunosuppressed rat. Eerdmans PH, et al. **Br J Pharmacol** 1996 Oct;119(4):637-46

Arterial stiffening: opposing effects of age- and hypertension-associated structural changes. Laurent S, et al. **Can J Physiol Pharmacol** 1996 Jul;74(7):842-9 (30 ref.)

Systemic arterial compliance early and late after a first acute myocardial infarction. Aakhus S, et al. **Cardiology** 1996 Sep-Oct;87(5):415-22

Characterization of arterial hemodynamics in rats with established hypertension. Chen HI, et al. **Chin J Physiol** 1996;39(1):49-55

Sympathetic alternans. Evidence for arterial baroreflex control of muscle sympathetic nerve activity in congestive heart failure. Ando S, et al. **Circulation** 1997 Jan 21; 95(2):316-9

Arterial baroreflexes and ventricular tachycardia [letter; comment] De Ferrari GM, et al. **Circulation** 1997 Jan 21; 95(2):541-2. Comment on: Circulation 1996 Mar 1;93(5):1033-42.

Platelet-derived growth factor and arterial response to injury [editorial; comment] Hart CE, et al. **Circulation** 1997 Feb 4;95(3):555-6. Comment on: Circulation 1997 Feb 4;95(3):669-76.

Arterial remodeling after balloon angioplasty or stenting in an atherosclerotic experimental model. Post MJ, et al. **Circulation** 1997 Aug 5;96(3):996-1003

Arterial wall remodelling and stiffness in hypertension: heterogeneous aspects. London GM, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S1-5 (38 ref.)

Abnormal vasoreaction of peripheral arteries to cold stimulus of both hands in diabetics. Fushimi H, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1-2):55-9

Age-related changes affecting atherosclerotic risk. Potential for pharmacological intervention. Spagnoli LG, et al. **Drugs Aging** 1996 Apr;8(4):275-98 (270 ref.)

Passive smoking and early arterial damage [editorial] Deanfield J. **Eur Heart J** 1996 May;17(5):645-6

Vasomotor dysfunction early after exposure of normal rabbit arteries to an adenoviral vector. Lafont A, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1033-40

Relation of a decrease in arterial compliance to ST segment depression on exercise electrocardiograms in patients with hypertension. Ohtsuka S, et al. **Hypertens Res** 1997 Mar; 20(1):11-6

Arterial compliance by cuff sphygmomanometer. Application to hypertension and early changes in subjects at genetic risk. Brinton TJ, et al. **Hypertension** 1996 Oct;28(4):599-603

Arterial compliance, systemic blood pressure, and diastolic dysfunction in older adults [editorial; comment] Kuller LH, et al. **J Am Geriatr Soc** 1997 Jul;45(7):889-90. Comment on: J Am Geriatr Soc 1997 Jul;45(7):803-8.

Reduced systemic arterial compliance is associated with left ventricular hypertrophy and diastolic dysfunction in older people [see comments] Rajkumar C, et al. **J Am Geriatr Soc** 1997 Jul;45(7):803-8. Comment in: J Am Geriatr Soc 1997 Jul;45(7):889-90.

Interaction between hypoxia and hypercapnia in regulating canine diaphragm arteriolar diameter. Ward ME. **J Appl Physiol** 1996 Mar;80(3):802-9

Tensile property of atheromatous plaque and an analysis of stress in atherosclerotic wall. Hayashi K, et al. **J Biomech** 1997 Jun;30(6):573-9

Numerical study of wall mechanics and fluid dynamics in end-to-side anastomoses and correlation to intimal hyperplasia. Hofer M, et al. **J Biomech** 1996 Oct; 29(10):1297-308

Pulsatile flow of non-Newtonian fluids through arterial stenoses. Tu C, et al. **J Biomech** 1996 Jul;29(7):899-908

Hemodynamic simulations and computer-aided designs of graft-artery junctions. Lei M, et al. **J Biomech Eng** 1997 Aug;119(3):343-8

7-Nitroindazole inhibits pial arteriolar vasodilation in a rat model of pneumococcal meningitis. Paul R, et al. **J Cereb Blood Flow Metab** 1997 Sep;17(9):985-91

Effects of antihypertensive therapy with angiotensin converting enzyme inhibitors or calcium antagonists on spontaneous cyclic vasomotor activity in small resistance arteries of spontaneously hypertensive rats. Rizzoni D, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1827-32

How to assess vascular remodelling in small and medium-sized muscular arteries in humans. Schiffrin EL, et al. **J Hypertens** 1997 Jun;15(6):571-84 (112 ref.)

Structure and function of resistance arteries of hypertensive patients treated with a beta-blocker or a calcium channel antagonist. Schiffrin EL, et al. **J Hypertens** 1996 Oct; 14(10):1247-55

Large artery stiffness in hypertension. Benetos A, et al. **J Hypertens Suppl** 1997 Mar;15(2):S89-97 (73 ref.)

Alteration of arterial distensibility in systemic sclerosis. Constans J, et al. **J Intern Med** 1997 Feb;241(2):115-8

Arterial tonometry and assessment of cardiovascular alterations with chiropractic spinal manipulative therapy. Driscoll MD. **J Manipulative Physiol Ther** 1997 Jan; 20(1):47-55 (95 ref.)

Modifications of arterial baroreflexes: obligatory roles in cardiovascular regulation in stress and poststress recovery. Nosaka S. **Jpn J Physiol** 1996 Aug;46(4):271-88 (198 ref.)

Arterial stiffness in hypertensive subjects with or without end-stage renal disease. Safar ME, et al. **Kidney Blood Press Res** 1997;20(2):82-9 (56 ref.)

Cardiac and arterial interactions in end-stage renal disease. London GM, et al. **Kidney Int** 1996 Aug;50(2):600-8

Lowering of blood pressure and artery stiffness [letter; comment] [see comments] Sleight P. **Lancet** 1997 Feb 1; 349(9048):362. Comment on: Lancet 1996 Sep 14;348(9029):696-7. Comment in: Lancet 1997 Mar 29;349(9056):955-6.

A transputer-based physiological signal processing system. Part 2--System testing and investigation of flow through models of very small arterial stenoses. Robinson TM, et al. **Med Eng Phys** 1996 Jan;18(1):36-44

The pathogenesis and prevention of atherosclerosis. Hässig A, et al. **Med Hypotheses** 1996 Nov;47(5):409-12 (24 ref.)

Mechanisms underlying arterial fragility and the complications of atherosclerosis. Stehbens WE. **Pathobiology** 1997;65(1):1-13

Increase in elastin gene expression and protein synthesis in arterial smooth muscle cells derived from patients with Moyamoya disease. Yamamoto M, et al. **Stroke** 1997 Sep; 28(9):1733-8

[Arterial hypertension, aging and cardiac decompensation] Safar M, et al. **Ann Cardiol Angeiol (Paris)** 1996 Oct; 45(8):439-44 (22 ref.) (Eng. Abstr.) **(Fre)**

[Assessment of arterial distensibility by ambulatory monitoring of QKD interval. Reproducibility of the method] Gosse P, et al. **Arch Mal Coeur Vaiss** 1996 Aug; 89(8):975-7 (Eng. Abstr.) **(Fre)**

[Hypertension and peripheral arterial hemodynamics] Milio G, et al. **Minerva Cardioangiol** 1997 May;45(5):193-6 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY see ANGIOGRAPHY

SECRETION

Induction of vascular endothelial growth factor in balloon-injured baboon arteries. A novel role for reactive oxygen species in atherosclerosis. Ruef J, et al. **Circ Res** 1997 Jul;81(1):24-33

SURGERY

Replantation by arterialization of the venous system of amputated parts. Veselý J, et al. **Acta Chir Plast** 1995; 37(3):67-70

A prospective, randomized trial limiting perioperative red blood cell transfusions in vascular patients. Bush RL, et al. **Am J Surg** 1997 Aug;174(2):143-8

End-on-side microvascular anastomosis: an experimental study. Tellioğlu AT. **Ann Plast Surg** 1997 Aug;39(2):137-40

Re: Reverse first dorsal metatarsal artery adipofascial flap [letter; comment] Wechselberger G, et al. **Ann Plast Surg** 1996 Oct;37(4):453-4. Comment on: Ann Plast Surg 1996 Feb;36(2):158-61.

Ten-year audit of arterial surgery from a district hospital. Holdsworth J. **Ann R Coll Surg Engl** 1997 Mar;79(2):96-101

Polyester arterial prostheses. Recent developments from the

Czech Republic and Poland. Guidoin R, et al. **ASAIO J** 1997 Jan-Feb;43(1):69-83

Vascugraft polyurethane arterial prosthesis as femoro-popliteal and femoro-peroneal bypasses in humans: pathological, structural and chemical analyses of four excised grafts. Zhang Z, et al. **Biomaterials** 1997 Jan; 18(2):113-24

Recombinant mitotoxin basic fibroblast growth factor-saporin reduces venous anastomotic intimal hyperplasia in the arteriovenous graft. Chen C, et al. **Circulation** 1996 Oct 15;94(8):1989-95

Problems related to the definition of "distal" bypass and "secondary" patency rates. A paper for debate. Panayiotopoulos YP, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):464-70 (37 ref.)

Approaches to postoperative blood flow monitoring after free tissue transfer. Which is the best? Berger A, et al. **Int Angiol** 1995 Sep;14(3):288-96 (92 ref.)

Has the efficacy of penile arterial by-pass surgery in the treatment of arteriogenic erectile dysfunction been determined? Vickers KE, et al. **Int J Impot Res** 1996 Dec; 8(4):247-51; discussion 251-3 (24 ref.)

Laparoscopic ligation of hypogastric arteries using the Hulka clip to arrest massive vaginal bleeding due to stage IIb cervical carcinoma. Gassibe EF, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb;4(2):259-61

Numerical study of wall mechanics and fluid dynamics in end-to-side anastomoses and correlation to intimal hyperplasia. Hofer M, et al. **J Biomech** 1996 Oct; 29(10):1297-308

Flow input waveform effects on the temporal and spatial wall shear stress gradients in a femoral graft-artery connector. Kleinstreuer C, et al. **J Biomech Eng** 1996 Nov; 118(4):506-10

In vitro and in vivo studies of a polyester arterial prosthesis with a warp-knitted sharkskin structure. Mary C, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):459-72

Vessel-wall recovery after diode laser-assisted microvascular anastomosis: clinical and histologic analysis on long-term follow-up. Gelli R, et al. **J Reconstr Microsurg** 1997 Apr; 13(3):199-205

The effect of combined treatment with dextran 40 and acetylsalicylic acid on patency in severely traumatized small veins and arteries: an experimental study in the rabbit. Salemark L, et al. **J Reconstr Microsurg** 1996 May; 12(4):221-6

Preventing gastroepiploic artery spasm: papaverine vs calcium channel blockade. Ali AT, et al. **J Surg Res** 1997 Jul 15;71(1):41-8

Vascular stent prototype: in vivo swine studies. Fontaine AB, et al. **J Vasc Interv Radiol** 1997 Jan-Feb;8(1 Pt 1):107-11

Computational design of a bypass graft that minimizes wall shear stress gradients in the region of the distal anastomosis. Lei M, et al. **J Vasc Surg** 1997 Apr;25(4):637-46

Implant site influence on arterial prosthesis healing: a comparative study with a triple implantation model in the same dog. Wu MH, et al. **J Vasc Surg** 1997 Mar; 25(3):528-36

Adventitial stripping does not strip the adventitia. Kemler MA, et al. **Plast Reconstr Surg** 1997 May;99(6):1626-31

Ceftriaxone versus cefazolin in peripheral arterial operations: a randomized, prospective trial. Ross CB, et al. **South Med J** 1997 Jan;90(1):16-22

Alternative techniques for arterialization in multivisceral grafting. Lodge JP, et al. **Transplant Proc** 1997 May; 29(3):1850

An easy and physiologic arterial reconstruction method (sleeve technique) for orthotopic rat liver transplantation. Sato Y, et al. **Transplant Proc** 1996 Dec;28(6):3649-51

[Coronary revascularization by arterial bypasses: advantages, disadvantages] Bical O, et al. **Ann Cardiol Angeiol (Paris)** 1997 May-Jun;46(5-6):321-7 (18 ref.) (Eng. Abstr.) **(Fre)**

TRANSPLANTATION

Vascular bundle implantation into bone for aseptic necrosis of the lunate. Guo J. **Ann Plast Surg** 1996 Feb;36(2):133-8

Neo-intimal hyperplasia in vascular grafts and its implications for autologous arterial grafting. Purcell C, et al. **Ann R Coll Surg Engl** 1997 May;79(3):164-8 (43 ref.)

Ischemic gastric ulcer after coronary bypass using the right gastroepiploic artery. Schroeyers P, et al. **Ann Thorac Surg** 1997 May;63(5):1470-2

Successful management of an aortoesophageal fistula using a cryopreserved arterial allograft. Debras B, et al. **Ann Vasc Surg** 1996 May;10(3):292-6 (24 ref.)

Below-knee bypass using fresh arterial allografts for limb salvage: early results. Magne JL, et al. **Ann Vasc Surg** 1997 May;11(3):237-41

Morphology and function of preserved microvascular arterial grafts: an experimental study in rats. Vischjager M, et al. **Ann Vasc Surg** 1997 May;11(3):284-91

Visualization of vortex shedding at the proximal side-to-end artery-graft anastomosis. Hughes PE, et al. **Biorheology** 1996 Jul-Oct;33(4-5):305-17

Role of right gastroepiploic artery in myocardial revascularization with arterial grafts. Antona C, et al. **Cardiovasc Surg** 1996 Apr;4(2):217-21

In situ arterial allografting for aortoiliac graft infection: a 6-year experience. Koskas F, et al. **Cardiovasc Surg** 1996 Aug;4(4):495-9

Arterial homografts--a possible solution to an infective dilemma. Wagstaff SA, et al. **Cardiovasc Surg** 1996 Dec; 4(6):796-800

Replacement of right ventricle to pulmonary artery and right atrium to right ventricle homograft after a modified Rastelli operation. Amirghofran AA, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):588-90

Mid-term follow-up of 183 arterial myocardial revascularization procedures. Antona C, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):140-8

Gastroepiploic artery coronary bypass graft: non-invasive patency evaluation using color and duplex Doppler ultrasonography. Gryspeerdt S, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):134-9

Failure of gastroepiploic artery graft due to gastroduodenal artery stenosis. Kawasuji M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):790-2

Arterial bypass graft spasm: an examination of the role of high flow demands and endothelial function in the porcine GEA. Montgomery WD, et al. **Eur J Cardiothorac Surg** 1996;10(1):12-9

Arterial homografts. Callow AD. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):272-81 (73 ref.)

Arterial graft preservation [letter; comment] Faggioli G. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):508-9. Comment on: Eur J Vasc Endovasc Surg 1995 Nov;10(4):431-9.

Inhibitor of angiotensin-converting enzyme modifies myointimal origin in an arterial autograft model. Buján J, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):285-93

Anterior transposition of the posterior interosseous artery flap through the interosseous membrane. Gupta A, et al. **J Hand Surg [Br]** 1997 Feb;22(1):32-3

Successful revascularization of a toe-avulsion injury in a three-year-old child, using a digital artery transfer. Schwentker AR, et al. **J Reconstr Microsurg** 1996 Aug; 12(6):349-53

Preserved endothelial function and morphology in canine arterial grafts under conditions of poor distal runoff. Wei CG, et al. **J Surg Res** 1997 Aug;71(2):117-22

Exclusive use of arterial grafts in coronary artery bypass operations for three-vessel disease: use of both thoracic arteries and the gastroepiploic artery in 256 consecutive patients. Grandjean JG, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):935-42

Early rupture and degeneration of cryopreserved arterial allografts. Lehalle B, et al. **J Vasc Surg** 1997 Apr; 25(4):751-2

Use of distal arteries for microvascular reconstruction in forearm and hand surgery. Ge XZ, et al. **Microsurgery** 1996;17(4):180-3

Iatrogenic external iliac artery disruption during open pelvic lymph node dissection: successful repair with hypogastric artery transposition. Lazzeri M, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):205-7

Choice of peroneal or dorsalis pedis artery bypass for limb salvage. Darling RC 3rd, et al. **Semin Vasc Surg** 1997 Mar; 10(1):17-22

Simultaneous endoluminal dilatation and conventional surgery. Importance of programmed revascularization of the legs] Mellière D, et al. **J Mal Vasc** 1997 Jul;22(3):173-9; discussion 179-80 (Eng. Abstr.) **(Fre)**

[Evaluation of the venous network before arterial revascularization surgery] Puppinck P, et al. **J Mal Vasc** 1997 Jul;22(3):162-7 (25 ref.) (Eng. Abstr.) **(Fre)**

ULTRASONOGRAPHY

Measurement of a cross-sectional area of normal and stenotic arteries with videodensitometric quantitative arteriography and intravascular ultrasound. Molloi S, et al. **Acad Radiol** 1997 Apr;4(4):245-52

Doppler velocimetry of the uterine arteries in nulliparous women. Frusca T, et al. **Early Hum Dev** 1997 Apr 25; 48(1-2):177-85

The clinical value of three-dimensional intravascular ultrasound imaging. Reid DB, et al. **J Endovasc Surg** 1995 Nov;2(4):356-64 (16 ref.)

Use of Fourier shape descriptors to improve the reproducibility of echographic measurements of arterial intima-media thickness. Bruschi G, et al. **J Hypertens** 1997 May;15(5):467-74

Non-invasive evaluation of arterial abnormalities in hypertensive patients. Asmar RG, et al. **J Hypertens Suppl** 1997 Mar;15(2):S99-107 (57 ref.)

Diagnosis of right coronary artery to right atrial fistula in a dog using two-dimensional echocardiography. Jacobs GJ, et al. **J Small Anim Pract** 1996 Aug;37(8):387-90

A transputer-based physiological signal processing system. Part 2--System testing and investigation of flow through models of very small arterial stenoses. Robinson TM, et al. **Med Eng Phys** 1996 Jan;18(1):36-44

Visualization of small vessels in the fingertip of man using color-coded Doppler sonography: a new noninvasive tool reducing the diagnostic gap between macro- and microcirculation. Mück-Weymann M, et al. **Microvasc Res** 1997 Mar;53(2):194-6

Deconvolution process in measurement of arterial velocity profiles via an ultrasonic pulsed Doppler velocimeter for evaluation of the wall shear rate. Flaud P, et al. **Ultrasound Med Biol** 1997;23(3):425-36

Tissue equivalent vessel phantoms for intravascular ultrasound. Ryan LK, et al. **Ultrasound Med Biol** 1997; 23(2):261-73

The application of echo-tracking methods to endothelium-dependent vasoreactivity and arterial compliance measurements. Stadler RW, et al. **Ultrasound Med Biol** 1996;22(1):35-42

Simulating nonstationary in-phase and quadrature Doppler signals using a time-varying impulse response filter [letter] Wang Y, et al. **Ultrasound Med Biol** 1996;22(4):529-31

[Arterial blood flow in congenital idiopathic clubfoot] Vispo Seara JL, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov-Dec; 134(6):533-6 (Eng. Abstr.) **(Ger)**

ULTRASTRUCTURE

Supravital morphology of small branches of lateral striate arteries as observed with Nomarski optics. Gouveia CJ. **Acta Anat (Basel)** 1996;156(1):41-5

Distribution of the arterial supply to the vomeronasal organ in the cat. Salazar I, et al. **Anat Rec** 1997 Jan;247(1):129-36

[Microangioarchitecture of the mucosa of the antrum pyloricum in rabbit] Jackowiak H. **Anat Histol Embryol** 1996 Sep;25(3):155-9 (Eng. Abstr.) **(Ger)**

VIROLOGY

Vasomotor dysfunction early after exposure of normal rabbit arteries to an adenoviral vector. Lafont A, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1033-40

ARTERIO-ARTERIAL FISTULA

Characterization of intra-arterial flow velocity within left coronary to pulmonary artery fistula. Bitar SR, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):208-12

Platelet adhesion following the administration of tissue-type plasminogen activator and its reversal by vitamin E in rats. Jen CJ, et al. **Thromb Haemost** 1996 Jan;75(1):101-6

COMPLICATIONS

Complete circumvention of central retinal artery and venous cilioretinal shunts in optic disc drusen [letter] Auw-Haedrich C, et al. **Arch Ophthalmol** 1996 Oct; 114(10):1285-7

Myocardial ischemia assessed by dobutamine stress echocardiography in a patient with bicoronary to pulmonary artery fistulas. Elhendy A, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):189-91

Coexistent mitral stenosis and coronary artery fistula presenting as myocardial ischemia: case report. Lin CL, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Feb; 13(2):117-22

Case report of association of congenital coronary fistulae with coronary atherosclerosis. Rangel A, et al. **Rev Invest Clin** 1995 Nov-Dec;47(6):481-6

[Three cases of coronary to pulmonary arterial fistulae combined with valvular disease] Iida H, et al. **Kyobu Geka** 1996 May;49(5):384-7 (Eng. Abstr.) **(Jpn)**

CONGENITAL

Congenital coronary fistulas in children and adults: diagnosis, surgical technique and results. Carrel T, et al. **Cardiology** 1996 Jul-Aug;87(4):325-30

Congenital coronary artery fistula: a report of 24 patients. Thongtang V, et al. **J Med Assoc Thai** 1996 Oct; 79(10):630-4

DIAGNOSIS

In vivo detection of perineural circular arterial anastomosis (circle of Zinn-Haller) in a patient with large peripapillary chorioretinal atrophy. Park KH, et al. **Am J Ophthalmol** 1996 Dec;122(6):905-7

Aortic root abscess with fistula formation. Hwang SW, et al. **Chest** 1997 May;111(5):1436-8

Multiple coronary-pulmonary fistulae involving all three coronary arteries: a case report. Abhyankar AD, et al. **Int J Cardiol** 1996 Dec 6;57(2):181-3 (9 ref.)

Congenital coronary artery fistula: a report of 24 patients. Thongtang V, et al. **J Med Assoc Thai** 1996 Oct; 79(10):630-4

Coronary artery to pulmonary artery fistula with two giant saccular aneurysms in an elderly patient determined noninvasively. Yamada Y, et al. **Jpn Circ J** 1996 Aug; 60(8):618-23

[Coronary-to-bronchial artery anastomosis. coronary-to-bronchial artery fistula] Iwasaki K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):800-2 (12 ref.) **(Jpn)**

ETIOLOGY

Aorto-pulmonary fistula: a rare event in the evolution of a dissecting aneurysm of the thoracic aorta. Massetti M, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):994-6

Coronary artery aneurysmal fistula: a late complication of stent deployment. Karim MA. **Int J Cardiol** 1996 Dec 13; 57(3):207-9

PHYSIOPATHOLOGY

Coexistent mitral stenosis and coronary artery fistula presenting as myocardial ischemia: case report. Lin CL, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Feb; 13(2):117-22

ARTERIO-ARTERIAL FISTULA

RADIOGRAPHY

[Coronary artery-cardiac fistulas. Review of the literature. Two accidentally discovered cases] Jazra C, et al. **J Med Liban** 1995;43(3):162-5 (25 ref.) (Eng. Abstr.) **(Fre)**

RADIONUCLIDE IMAGING

Coronary artery fistula. Choe W, et al. **Clin Nucl Med** 1997 Jun;22(6):425-6

SURGERY

Endovascular stenting of an aortopulmonary fistula presenting with hemoptysis. A case report. Campagna AC, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):643-6

Disappearance of coronary artery-ventricular fistulas after a radical operation for tetralogy of Fallot. Kadokami T, et al. **Jpn Circ J** 1996 Aug;60(8):624-7

[A successful surgical treatment of coronary to pulmonary artery fistula with coronary steal phenomenon due to large volume of shunt: a case report] Ikeda M, et al. **Kyobu Geka** 1997 Mar;50(3):230-3 (Eng. Abstr.) **(Jpn)**

THERAPY

Coil embolization of a coronary artery to pulmonary artery fistula from an antegrade approach. Wax DF, et al. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):68-9

Transcatheter embolization of coronary artery fistula: a case report. Fu YC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar;59(3):194-8

Percutaneous coil embolization of coronary to pulmonary arterial fistula in a forty-six year old patient. Mehta SS, et al. **Indian Heart J** 1997 Mar-Apr;49(2):187-8

Transcatheter embolization of a pulmonary collateral vessel in a child with tricuspid atresia: case report. Karaaslan S, et al. **Turk J Pediatr** 1996 Jan-Mar;38(1):107-11

VETERINARY

Diagnosis of right coronary artery to right atrial fistula in a dog using two-dimensional echocardiography. Jacobs GJ, et al. **J Small Anim Pract** 1996 Aug;37(8):387-90

ARTERIOGRAPHY see **ANGIOGRAPHY**

ARTERIOHEPATIC DYSPLASIA see **ALAGILLE SYNDROME**

ARTERIOLES

ANATOMY & HISTOLOGY

Branching patterns and autoregulatory responses of juxtamedullary afferent arterioles. Casellas D, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F416-21

Remarks on the structure and course of renal afferent glomerular arterioles. Kosiński H. **Folia Morphol (Warsz)** 1995;54(4):259-65

Remarks on the structure and course of renal efferent glomerular arterioles. Kosiński H. **Folia Morphol (Warsz)** 1995;54(4):267-72

Development of an Optical Triplicator for intravital video microscopy of oxygen saturation. Mott E, et al. **IEEE Trans Biomed Eng** 1996 Nov;43(11):1116-9

CHEMISTRY

Role of chloride channels in afferent arteriolar constriction. Takenaka T, et al. **Kidney Int** 1996 Sep;50(3):864-72

CYTOLOGY

Enzymatic isolation and characterization of single vascular smooth muscle cells from cremasteric arterioles. Jackson WF, et al. **Microcirculation** 1997 Mar;4(1):35-50

DRUG EFFECTS

Angiotensin II induces a tachyphylactic calcium response in the rabbit afferent arteriole. Kornfeld M, et al. **Acta Physiol Scand** 1997 Jun;160(2):165-73

Blockade of chloride channels by DIDS stimulates renin release and inhibits contraction of afferent arterioles. Jensen BL, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F718-27

In vivo and in vitro vasoactive reactions of coronary arteriolar microvessels to nitroglycerin. Jones CJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H461-8

Effect of nicotine on endothelium-dependent arteriolar dilatation in vivo. Mayhan WG, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2337-42

Extreme vasoreactivity of rat epineurial arterioles to vasopressin. Sasaki H, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1307-13

Direct effects of ropivacaine and bupivacaine on spinal pial vessels in canine. Assessment with closed spinal window technique. Iida H, et al. **Anesthesiology** 1997 Jul;87(1):75-81

Effects of insulin and the combination of insulin plus metformin (glucophage) on microvascular reactivity in control and diabetic hamsters. Bouskela E, et al. **Angiology** 1997 Jun;48(6):503-14

Role of carbon monoxide in heme-induced vasodilation. Kozma F, et al. **Eur J Pharmacol** 1997 Apr 4;323(2-3):R1-2

The effects of two levels of vasomotor tone at physiologic suffusate PO2 on acetylcholine- and sodium nitroprusside-induced relaxation of cremaster third-order arterioles in 5-hour ischemia-reperfusion control rats. Borsch DM, et al. **Int J Microcirc Clin Exp** 1997 May-Jun;17(3):113-22

Vasoactive effects of basic and acidic fibroblast growth factors in hamster cheek pouch arterioles. Brown MD, et al. **Int J Microcirc Clin Exp** 1996 Nov-Dec;16(6):308-12

Effect of L-arginine on reactivity of hamster cheek pouch arterioles during diabetes mellitus. Mayhan WG, et al. **Int J Microcirc Clin Exp** 1997 May-Jun;17(3):107-12

Effect of Ginkgo biloba extract (EGb 761) on the vasospastic response of mouse cutaneous arterioles to platelet activation. Stücker O, et al. **Int J Microcirc Clin Exp** 1997 Mar-Apr;17(2):61-6

Platelet-activating factor dilates efferent arterioles through glomerulus-derived nitric oxide. Arima S, et al. **J Am Soc Nephrol** 1996 Jan;7(1):90-6

Direct evidence that thromboxane mimetic U44069 preferentially constricts the afferent arteriole. Hayashi K, et al. **J Am Soc Nephrol** 1997 Jan;8(1):25-31

Vasodilator effect of insulin on the microcirculation of the rat cremaster muscle. Porter JP, et al. **Life Sci** 1997; 61(7):673-84

Sensitivity of the segmental renal arterioles to angiotensin II in the aging rat. Zhang XZ, et al. **Mech Ageing Dev** 1997 Aug;97(2):183-92

Arteriolar dilation produced by venule endothelium-derived nitric oxide. Falcone JC, et al. **Microcirculation** 1997 Jun; 4(2):303-10

Dietary myo-inositol restores diabetic renal arteriolar reactivity to angiotensin II but not to norepinephrine. Inman SR, et al. **Microcirculation** 1996 Jun;3(2):191-8

Low-affinity hemoglobin increases tissue PO2 and decreases arteriolar diameter and flow in the rat cremaster muscle. Kunert MP, et al. **Microvasc Res** 1996 Jul;52(1):58-68

Canine retinal arterial and arteriolar dilatation induced by nipradilol, a possible glaucoma therapeutic. Okamura T, et al. **Pharmacology** 1996 Nov;53(5):302-10

Depressed arteriolar responsiveness to norepinephrine in streptozotocin-induced diabetes in the rat. Myers TO, et al. **Prostaglandins** 1996 Nov;52(5):415-30

Endotoxin interacts with tumor necrosis factor-alpha to induce vasodilation of isolated rat skeletal muscle arterioles. Glembot TM, et al. **Shock** 1996 Apr;5(4):251-7

GROWTH & DEVELOPMENT

Chronic alpha 1-adrenergic blockade stimulates terminal and arcade arteriolar development. Price RJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H752-9

[Biomorphosis of the kidney boundary interstitium and intrarenal arteries] Strauch G. **Frankf Z Pathol** 1966; 75(4):336-41 **(Ger)**

METABOLISM

Angiotensin II induces a tachyphylactic calcium response in the rabbit afferent arteriole. Kornfeld M, et al. **Acta Physiol Scand** 1997 Jun;160(2):165-73

Localization of adenosine-receptor subtype mRNA in rat outer medullary descending vasa recta by RT-PCR. Kreisberg MS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1231-8

PATHOLOGY

Potential involvement of growth factors in the proliferation of arteriolar smooth muscle cells during chronic graft rejection. Vuillemin T, et al. **Adv Nephrol Necker Hosp** 1996;25:39-49 (26 ref.)

Hyperinsulinemia induces myocardial infarctions and arteriolar medial hypertrophy in spontaneously hypertensive rats. Zimlichman R, et al. **Am J Hypertens** 1997 Jun;10(6):646-53

Myofibroblasts and arteriolar sclerosis in human diabetic nephropathy. Pedagogos E, et al. **Am J Kidney Dis** 1997 Jun;29(6):912-8

Hypertensive arteriolar necrosis revisited. Gustafsson F. **Blood Press** 1997 Mar;6(2):71-7 (53 ref.)

The structural arteriolar changes in diabetes mellitus and essential hypertension. The relative contribution of ageing and high blood pressure [see comments] Longhini CS, et al. **Eur Heart J** 1997 Jul;18(7):1135-40. Comment in: Eur Heart J 1997 Jul;18(7):1049-50.

Structural arteriolar changes in diabetes mellitus [editorial; comment] Mancia G, et al. **Eur Heart J** 1997 Jul; 18(7):1049-50. Comment on: Eur Heart J 1997 Jul;18(7):1135-40.

Smooth muscle cell types at different aortic levels and in microvasculature of rabbits with renovascular hypertension. Pauletto P, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1679-85

Focal narrowing of retinal arterioles in optic nerve atrophy. Papastathopoulos KI, et al. **Ophthalmology** 1995 Nov; 102(11):1706-11

Improvement in conjunctival microangiopathy after simultaneous pancreas-kidney transplants. Cheung AT, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):660-1

Severe cyclosporine arteriolopathy with focal segmental glomerulosclerosis is not a fatal finding in chronic renal allograft failure after year 5 of transplantation using cyclosporine. Takeda A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):96-9

Quantitative ultrastructural study of afferent and efferent arterioles in IgA glomerulonephritis and benign nephrosclerosis. Rázga Z, et al. **Virchows Arch** 1996 Nov; 429(4-5):275-81

PHYSIOLOGY

Motor responses of cultured rat cerebral vascular smooth muscle cells to intra- and extracellular pH changes. Apkon M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H434-45

Branching patterns and autoregulatory responses of juxtamedullary afferent arterioles. Casellas D, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F416-21

Integrin-mediated reduction in vascular smooth muscle [Ca2+]i induced by RGD-containing peptide. D'Angelo G, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H2065-70

Calcium and mechanotransduction of the myogenic response. D'Angelo G, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H175-82

Acetylcholine induces conducted vasodilation by nitric oxide-dependent and -independent mechanisms. Doyle MP, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1364-71

Facilitated transport in vasa recta: theoretical effects on solute exchange in the medullary microcirculation. Edwards A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F505-14

Morphological heterogeneity of renal glomerular arterioles and distinct [Ca2+]i responses to ANG II. Helou CM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F84-96

Gender difference in myogenic tone of rat arterioles is due to estrogen-induced, enhanced release of NO. Huang A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1804-9

Endothelial ATP-sensitive potassium channels mediate coronary microvascular dilation to hyperosmolarity. Ishizaka H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H104-12

Chloride is essential for contraction of afferent arterioles after agonists and potassium. Jensen BL, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F389-96

Arteriolar constriction in skeletal muscle during vascular stunning: role of mast cells. Keller MW. **Am J Physiol** 1997 May;272(5 Pt 2):H2154-63

TNF-alpha induces selectin-mediated leukocyte rolling in mouse cremaster muscle arterioles. Kunkel EJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1391-400

Response of native and stimulated collateral vessels to serotonin. Lamping KG. **Am J Physiol** 1997 May;272(5 Pt 2):H2409-15

Different alpha-adrenoceptor subtypes mediate constriction of arterioles and venules. Leech CJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H710-22

Newborn piglet cerebral microvascular responses to epoxyeicosatrienoic acids. Leffler CW, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H333-8

Interaction between adenosine and flow-induced dilation in coronary microvascular network. Liao JC, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1571-81

Arteriolar responses to extracellular ATP in striated muscle. McCullough WT, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1886-91

Myogenic constriction of human coronary arterioles. Miller FJ Jr, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H257-64

Adenosine A2-receptor mediates ethanol-induced arteriolar dilation in rat stomach. Nagata H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1028-33

Modulation of myogenic responsiveness by CO2 in rat diaphragmatic arterioles: role of the endothelium. Nagi MM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1419-25

Endothelium-derived nitric oxide limits sympathetic neurogenic constriction in intestinal microcirculation. Nase GP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H426-33

Nitric oxide modulates arteriolar responses to increased sympathetic nerve activity. Nase GP, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H860-9

Cumulative conducted vasodilation within a single arteriole and the maximum conducted response. Rivers RJ. **Am J Physiol** 1997 Jul;273(1 Pt 2):H310-6

Components of methacholine-initiated conducted vasodilation are unaffected by arteriolar pressure. Rivers RJ. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2895-901

Cytokine-induced leukocyte rolling in mouse cremaster muscle arterioles in P-selectin dependent. Thorlacius H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1725-9

Coactivation of resistance vessels and muscle fibers with acetylcholine release from motor nerves. Welsh DG, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H156-63

Vascular smooth muscle alpha v beta 3 integrin mediates arteriolar vasodilation in response to RGD peptides. Mogford JE, et al. **Circ Res** 1996 Oct;79(4):821-6

Development of an Optical Triplicator for intravital video microscopy of oxygen saturation. Mott E, et al. **IEEE Trans Biomed Eng** 1996 Nov;43(11):1116-9

Arteriolar dilation to endotoxin is increased in copper-deficient rats. Schuschke DA, et al. **Inflammation** 1997 Feb;21(1):45-53

Effect of L-arginine on reactivity of hamster cheek pouch arterioles during diabetes mellitus. Mayhan WG, et al. **Int J Microcirc Clin Exp** 1997 May-Jun;17(3):107-12

In situ studies of renal arteriolar function using the in vitro-perfused hydronephrotic rat kidney. Loutzenhiser RD. **Int Rev Exp Pathol** 1996;36:145-60

Direct vasodilatory effect of insulin on isolated retinal arterioles. Su EN, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2634-44

Autoregulation during pressor response elevates wall shear rate in arterioles. Kurjiaka DT, et al. **J Appl Physiol** 1996 Feb;80(2):598–604

Arteriolar dilation produced by venule endothelium–derived nitric oxide. Falcone JC, et al. **Microcirculation** 1997 Jun; 4(2):303–10

Vascular communication and endothelial cell function in the control of arteriolar flow distribution. Frame MD, et al. **Microcirculation** 1996 Jun;3(2):233–5 (11 ref.)

Age–related differences in intestinal arteriolar responses to venous pressure elevation in the rat. Gosche JR, et al. **Microcirculation** 1996 Dec;3(4):395–400

The role of mechanical stresses in microvascular remodeling. Skalak TC, et al. **Microcirculation** 1996 Jun;3(2):143–65 (198 ref.)

Morphology favors an endothelial cell pathway for longitudinal conduction within arterioles. Haas TL, et al. **Microvasc Res** 1997 Mar;53(2):113–20

Evidence for K+ channels involvement in capillary sensing and for bidirectionality in capillary communication. Tyml K, et al. **Microvasc Res** 1997 May;53(3):245–53

Elevation of intracellular calcium in smooth muscle causes endothelial cell generation of NO in arterioles. Dora KA, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6529–34

Calcium–activated potassium channel–mediated arteriolar relaxation during endotoxic shock. Price JM, et al. **Shock** 1997 Apr;7(4):294–9

Mechanisms of adrenomedullin–induced dilatation of cerebral arterioles. Lang MG, et al. **Stroke** 1997 Jan;28(1):181–5

Tetrahydrobiopterin, a cofactor for nitric oxide synthase, produces endothelium–dependent dilation of mouse pial arterioles. Rosenblum WI. **Stroke** 1997 Jan;28(1):186–9

PHYSIOPATHOLOGY

Enhanced constrictor responses of skeletal muscle arterioles during chronic myocardial infarction. Didion SP, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1502–8

Effect of chronic myocardial infarction on in vivo reactivity of skeletal muscle arterioles. Didion SP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2403–8

Nitric oxide synthase inhibition reverses arteriolar hyporesponsiveness to endothelin–1 in septic rats. Hollenberg SM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R969–74

A test of the role of flow–dependent dilation in arteriolar responses to occlusion. McGahren ED, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H714–21

Changes in arterioles, arteries, and local perfusion of the brain stem during hemorrhagic hypertension. Toyoda K, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1350–4

Melanoma cell adhesion to injured arterioles: mechanisms of stabilized tethering. Kong L, et al. **Clin Exp Metastasis** 1997 Jul;15(4):426–31

Functional impairment of renal afferent arteriolar voltage–gated calcium channels in rats with diabetes mellitus. Carmines PK, et al. **J Clin Invest** 1996 Dec 1; 98(11):2564–71

Arteriolar constriction in mild–to–moderate essential hypertension: an old concept requiring reconsideration? Muntinga JH, et al. **J Hypertens** 1997 Apr;15(4):411–9

Endothelin production links superoxide generation to altered opioid–induced pial artery vasodilation after brain injury in pigs. Kasemsri T, et al. **Stroke** 1997 Jan;28(1):190–6; discussion 197

ULTRASONOGRAPHY

A high–frequency continuous–wave Doppler ultrasound system for the detection of blood flow in the microcirculation. Christopher DA, et al. **Ultrasound Med Biol** 1996;22(9):1191–203

ULTRASTRUCTURE

Giant renin secretory granules in beige mouse renal afferent arterioles. Jensen BL, et al. **Cell Tissue Res** 1997 May; 288(2):399–406

The vasculature of the peripheral portion of the human eighth cranial nerve. Matsunaga T, et al. **Hear Res** 1996 Nov 1; 101(1–2):119–31

ARTERIOSCLEROSIS

see related

DIET, ATHEROGENIC

Arteriosclerosis. Schettlerballot G. **Eur J Med Res** 1997 Jun 16;2(6):233–5 (7 ref.)

[Arteriosclerotic aneurysms of the subclavian artery] Porcellini M, et al. **Minerva Cardioangiol** 1996 Sep; 44(9):433–6 (Eng. Abstr.) **(Ita)**

BLOOD

[Do increased lipoprotein(a) levels in euthyroid autoimmune thyroid diseases predict an increased risk of arteriosclerosis?] Buchinger W, et al. **Acta Med Austriaca** 1995;22(4):78–1 (Eng. Abstr.) **(Ger)**

[Role of fibrinogen in arterial vascular pathology] Colorio CC, et al. **Sangre (Barc)** 1997 Feb;42(1):47–52 (48 ref.) **(Spa)**

CHEMICALLY INDUCED

The tar fraction of cigarette smoke does not promote arteriosclerotic plaque development. Penn A, et al. **Environ Health Perspect** 1996 Oct;104(10):1108–13

Non cholinergic toxicity of Sarin [editorial; comment] Ishikawa S. **Intern Med** 1997 Jul;36(7):447. Comment on: Intern Med 1997 Jul;36(7):466–70.

Butadiene inhalation accelerates arteriosclerotic plaque development in cockerels. Penn A, et al. **Toxicology** 1996 Oct 28;113(1–3):351–4

Acceleration of arteriosclerosis of the rat aorta allograft by insulin growth factor–I. Motomura N, et al. **Transplantation** 1997 Apr 15;63(7):932–6

COMPLICATIONS

An update on aortic causes of ischemic stroke. Heinzlef O, et al. **Curr Opin Neurol** 1997 Feb;10(1):64–72 (42 ref.)

Arteriosclerotic femoral artery aneurysms. A short review. Levi N, et al. **J Cardiovasc Surg (Torino)** 1997 Aug; 38(4):335–8 (31 ref.)

Arteriosclerosis, apolipoprotein E, and Alzheimer's disease [letter; comment] Kalaria RN. **Lancet** 1997 Apr 19; 349(9059):1174. Comment on: Lancet 1997 Jan 18;349(9046):151–4.

Pathogenesis of acute renal failure: new aspects. Bock HA. **Nephron** 1997;76(2):130–42

[Cerebrovascular accident and aortic thrombosis in a patient with protein S deficiency] Lambermont B, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):99–102 (Eng. Abstr.) **(Fre)**

[Questions of syntropy between carcinoma and arteriosclerosis in 2800 histological cases] Lange HJ, et al. **Frankf Z Pathol** 1966;75(4):362–74 **(Ger)**

[Atherothrombosis and thrombocyte function inhibitors] **Internist (Berl)** 1997 Aug;38(8 Suppl Atheroth):1–8 **(Ger)**

[Risk factors for arteriosclerosis in postmenopausal women] De Carvalho ET, et al. **Arq Bras Cardiol** 1996 Jan; 66(1):37–48 (167 ref.) **(Por)**

[Neuropathy associated with arteriosclerosis] Poza JJ, et al. **Rev Neurol** 1997 Aug;25(144):1194–7 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Phase–contrast MR angiography for detection of arteriosclerotic renal artery stenosis. Duda SH, et al. **Acta Radiol** 1997 Mar;38(2):287–91

Hyperhomocysteinemia in end–stage renal disease: prevalence, etiology, and potential relationship to arteriosclerotic outcomes. Bostom AG, et al. **Kidney Int** 1997 Jul;52(1):10–20 (112 ref.)

[Analysis of the diagnostic value of endovascular ultrasound with roc curves. Practical implications] Finet G, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):59–66 (Eng. Abstr.) **(Fre)**

[Contrast medium enhanced MR angiography of peripheral blood vessels] Vosshenrich R, et al. **Radiologe** 1997 Jul; 37(7):579–86 (Eng. Abstr.) **(Ger)**

[Intravascular MR imaging: the first in–vivo experiences in an animal arteriosclerosis model] Zimmermann GG, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):180–6 (Eng. Abstr.) **(Ger)**

[Vascular imaging for arteriosclerosis obliterans] Matsubara J. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):504–9 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Evaluation of arterial sclerosis by thermography] Iketani T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:697–700 (9 ref.) **(Jpn)**

[A survey of early arteriosclerosis. New possibilities with angiography and ultrasound] Jogestrand T. **Lakartidningen** 1996 Oct 23;93(43):3783–4, 3787 (10 ref.) **(Swe)**

DRUG THERAPY

Angiographic trials of lipid–lowering therapy: an update. Mancini GB. **Curr Opin Lipidol** 1995 Dec;6(6):379–85 (13 ref.)

The antiatherosclerotic effects of calcium antagonists. Paoletti R, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S6–10 (30 ref.)

Determining light dose for photodynamic therapy of atherosclerotic lesions in the Yucatan miniswine. Hsiang YN, et al. **J Endovasc Surg** 1995 Nov;2(4):365–71

Different inhibitory effects of immunosuppressive drugs on human and rat aortic smooth muscle and endothelial cell proliferation stimulated by platelet–derived growth factor or endothelial cell growth factor [see comments] Mohacsi PJ, et al. **J Heart Lung Transplant** 1997 May;16(5):484–92 . Comment in: J Heart Lung Transplant 1997 May;16(5):493–5.

[Recent antithrombotic gold standard? (news)] Keil Tu. **Fortschr Med** 1997 Feb 28;115(6):18 **(Ger)**

[Anti–arteriosclerosis effects due to stimulation of endogenous nitric oxide synthesis] Bode–Böger SM, et al. **Internist (Berl)** 1997 May;38(5):461–5 (30 ref.) **(Ger)**

[Pharmacotherapy of arteriosclerosis and its complications. Effect of ACE inhibitors and HMG–CoA–reductase inhibitors] Tschudi MR, et al. **Schweiz Med Wochenschr** 1997 Apr 12;127(15):636–49 (99 ref.) (Eng. Abstr.) **(Ger)**

ECONOMICS

Economic costs of neoplasms, arteriosclerosis, and diabetes in the United States. Thom TJ. **In Vivo** 1996 Mar–Apr; 10(2):255–9

ENZYMOLOGY

Inducible and endothelial nitric oxide synthase expression during development of transplant arteriosclerosis in rat aortic grafts. Akyürek LM, et al. **Am J Pathol** 1996 Dec; 149(6):1981–90

ETIOLOGY

Hyperhomocysteinemia [letter; comment] Oxley DK. **Am J Clin Pathol** 1997 Jul;108(1):115. Comment on: Am J Clin Pathol 1996 Dec;106(6):709–22.

Inducible and endothelial nitric oxide synthase expression during development of transplant arteriosclerosis in rat aortic grafts. Akyürek LM, et al. **Am J Pathol** 1996 Dec; 149(6):1981–90

Elastin receptor and cell–matrix interactions in heart transplant–associated arteriosclerosis. Hinek A. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):15–29 (114 ref.)

Effect of cyclosporine during initiation of transplant arteriosclerosis. An ultrastructural study in the aorta–transplanted rabbit. Andersen HO, et al. **Atherosclerosis** 1997 Sep;133(2):171–81

Aging of the vascular wall and atherogenesis: role of the elastin–laminin receptor [published erratum appears in Atherosclerosis 1996 Sep 27;126(1):173] Robert L. **Atherosclerosis** 1996 Jun;123(1–2):169–79 (56 ref.)

Medial arterial calcification, calcific aortic stenosis and mitral annular calcification in a diabetic patient with severe autonomic neuropathy. Cronin CC, et al. **Diabet Med** 1996 Aug;13(8):768–70

Arteriosclerosis in dialysis patients. Bommer J, et al. **Int J Artif Organs** 1996 Nov;19(11):638–44

Marked arteriosclerosis of the descending aorta in a teenager with interruption of the aorta. Kawai S, et al. **Intern Med** 1996 May;35(5):383–7

Atherosclerosis and arteriosclerosis in chronic renal failure [editorial] London GM, et al. **Kidney Int** 1997 Jun; 51(6):1678–95 (196 ref.)

Homocysteine – a new arteriosclerotic risk factor in end–stage renal failure [editorial] Zidek W. **Nephron** 1997; 75(3):249–50

Relationship between insulin and carotid atherosclerosis in the general population. The Bruneck Study. Bonora E, et al. **Stroke** 1997 Jun;28(6):1147–52

Chronic allograft arteriosclerosis: contributing factors and molecular mechanisms in the light of experimental studies. Räisänen–Sokolowski A, et al. **Transpl Immunol** 1996 Jun; 4(2):91–8 (87 ref.)

Presensitization accelerates allograft arteriosclerosis. Kolb F, et al. **Transplantation** 1996 Nov 27;62(10):1401–10

[Homocysteine, a risk factor of atherosclerosis] Ambrosi P, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1667–71 (Eng. Abstr.) **(Fre)**

[Arteriosclerosis––an infectious disease? (editorial)] Heinzl S. **Med Monatsschr Pharm** 1997 Jul;20(7):173 **(Ger)**

[Visceral fat syndrome and arteriosclerosis] Matsuzawa Y. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):369–73 (8 ref.) **(Jpn)**

[Abnormalities of vascular wall metabolism and arteriosclerosis] Saito Y. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):365–8 (6 ref.) **(Jpn)**

[Treatment of diabetes mellitus and its complications. 4. Diabetes mellitus and arteriosclerosis] Yamada N. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1479–83 (4 ref.) **(Jpn)**

[Biochemistry of risk factors for cardiovascular diseases in laboratory medicine] Okabe H. **Rinsho Byori** 1996 Nov; 44(11):1050–7 (21 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

[Molecular and cellular mechanisms of arteriosclerosis and restenosis: possibilities of gene therapy] Lüscher TF, et al. **Z Kardiol** 1996 Jul;85(7):495–508 (133 ref.) (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Angiopeptin––an immunological review. Motomura N, et al. **Transpl Immunol** 1996 Jun;4(2):99–104 (72 ref.)

Chronic allograft arteriosclerosis: contributing factors and molecular mechanisms in the light of experimental studies. Räisänen–Sokolowski A, et al. **Transpl Immunol** 1996 Jun; 4(2):91–8 (87 ref.)

CMV as an exacerbating agent in transplant vascular sclerosis: potential immune–mediated mechanisms modelled in vitro. Waldman WJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1545–6

METABOLISM

Expression of the adhesion molecules ICAM, VCAM, and ELAM in the arteriosclerotic plaque. Kasper HU, et al. **Gen Diagn Pathol** 1996 May;141(5–6):289–94

Expression of c–fms on smooth muscle cells isolated from experimental arteriosclerosis. Inaba T, et al. **J Atheroscler Thromb** 1994;1 Suppl 1:S22–8

[Association of atherosclerosis and cardiac cell dysfunction] Yonemochi H, et al. **Rinsho Byori** 1996 Nov;44(11):1037–42 (Eng. Abstr.) **(Jpn)**

ARTERIOSCLEROSIS

MICROBIOLOGY

Detection of Chlamydia pneumoniae in atherosclerotic plaques in the walls of arteries of lower extremities from patients undergoing bypass operation for arterial obstruction. Kuo CC, et al. **J Vasc Surg** 1997 Jul; 26(1):29–31

[Arteriosclerosis—a Chlamydia pneumoniae infection] Stille W. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1086–91 (50 ref.) **(Ger)**

MORTALITY

[Obesity. Increased mortality caused by arteriosclerotic sequelae and carcinomas] Wirth A. **Internist (Berl)** 1997 Mar;38(3):214–23 (42 ref.) **(Ger)**

PATHOLOGY

The angiopathy of subcortical arteriosclerotic encephalopathy (Binswanger's disease): immunohistochemical studies using markers for components of extracellular matrix, smooth muscle actin and endothelial cells. Zhang WW, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):219–24

Homocysteine induced arteriosclerosis-like alterations of the aorta in normotensive and hypertensive rats following application of high doses of methionine. Matthias D, et al. **Atherosclerosis** 1996 May;122(2):201–16

Copper-induced inflammatory reactions of rat carotid arteries mimic restenosis/arteriosclerosis-like neointima formation. Völker W, et al. **Atherosclerosis** 1997 Apr; 130(1–2):29–36

Atherosclerotic plaque components in human aortas contrasted by ex vivo imaging using fast spin-echo magnetic resonance imaging and spiral computed tomography [published erratum appears in Invest Radiol 1997 Jan;32(1):65] Halliburton SS, et al. **Invest Radiol** 1996 Nov;31(11):724–8

Blockade of growth factor synthesis and growth factor action: two possible sites of interference in allograft vessel disease and coronary bypass or balloon injury. Häyry P, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):101–3

Beneficial effect of proteases on allograft arteriosclerosis in a rat aortic model. Gaciong Z, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):987–9

Histological localization of advanced glycosylation end products in the progression of diabetic nephropathy. Imai N, et al. **Nephron** 1997;76(2):153–60

Donor kidney vasculopathy: impact on outcome in kidney transplantation. Minakawa R, et al. **Transpl Immunol** 1996 Dec;4(4):309–12

The role of alloantigen-independent factors in transplant arteriosclerosis. Kouwenhoven EA, et al. **Transplant Proc** 1997 May;29(3):1721–2

[Calciphylactic arteriopathy] Seifert G, et al. **Frankf Z Pathol** 1966;75(4):342–61 **(Ger)**

[Vascular quality of various microsurgical transplants. A histological study] Wolff KD, et al. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):178–82 **(Ger)**

[Significance of endothelin for neointima formation and neovascularization in peripheral arterial occlusive disease] al-Fakhri N, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:25–8 (Eng. Abstr.) **(Ger)**

[Incidence and localization of apoptosis bodies in human arteriosclerosis lesions] Bauriedel G, et al. **Z Kardiol** 1996 Jul;85(7):509–18 (Eng. Abstr.) **(Ger)**

[Pathological study of age-related vascular changes in the spinal cord] Wang Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Aug;33(8):563–8 (Eng. Abstr.) **(Jpn)**

[Pulmonary artery atherosclerosis] Noguchi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):611–3 (17 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Non-lipid-related effects of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors. Corsini A, et al. **Cardiology** 1996 Nov–Dec;87(6):458–68

Age-related changes affecting atherosclerotic risk. Potential for pharmacological intervention. Spagnoli LG, et al. **Drugs Aging** 1996 Apr;8(4):275–98 (270 ref.)

Tensile property of atheromatous plaque and an analysis of stress in atherosclerotic wall. Hayashi K, et al. **J Biomech** 1997 Jun;30(6):573–9

Vasoactive hormones and renal sclerosis. Egido J. **Kidney Int** 1996 Feb;49(2):578–97 (229 ref.)

Local administration of estrogen inhibits transplant arteriosclerosis in rat aorta accelerated by topical exposure to IGF-I. Motomura N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1118–20

Up-regulation of endothelin-converting enzyme during the development of transplant renal arteriosclerosis in human renal allografts. Tanabe S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1517–9

[Significance of the angiotensin-II receptor AT1 in the pathogenesis of arterial hypertension and arteriosclerosis] Nickenig G, et al. **Dtsch Med Wochenschr** 1997 Aug 15; 122(33):1009–13 (21 ref.) **(Ger)**

[Mönckeberg sclerosis—noninvasive blood pressure monitoring] Tepel M. **Internist (Berl)** 1997 Apr;38(4):365 **(Ger)**

[Pathogenetic aspects of the L-arginine-NO metabolic pathway in arteriosclerosis and possible therapeutic aspects] Böger RH, et al. **Vasa** 1996;25(4):305–16 (107 ref.) (Eng. Abstr.) **(Ger)**

[The role of oxidative stress and the preventive effect of free radical scavengers in arteriosclerosis] Fehér J, et al. **Orv Hetil** 1997 Sep 7;138(36 Suppl 2):2283–7 (Eng. Abstr.) **(Hun)**

PREVENTION & CONTROL

Antihypertensive and vasculo- and renoprotective effects of pioglitazone in genetically obese diabetic rats. Yoshimoto T, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E989–96

Effect of cyclosporine during initiation of transplant arteriosclerosis. An ultrastructural study in the aorta-transplanted rabbit. Andersen HO, et al. **Atherosclerosis** 1997 Sep;133(2):171–81

The effect of probucol on low density lipoprotein oxidation and femoral atherosclerosis. Regnström J, et al. **Atherosclerosis** 1996 Sep 6;125(2):217–29

Age-related changes affecting atherosclerotic risk. Potential for pharmacological intervention. Spagnoli LG, et al. **Drugs Aging** 1996 Apr;8(4):275–98 (270 ref.)

Arteriosclerosis prevention by risk prevention. Symposia proceedings. January 13, 1996, Munich and March 9, 1996, Nuremberg, Germany. Dedicated to Prof. Dr. med. Peter Schwandt on the occasion of his 60th birthday. **Eur J Med Res** 1997 Jun 16;2(6):231–74

Potential modification of plaque behavior through the European lacidipine study on atherosclerosis. Bond MG, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S11–6

Ketanserin reduces graft arteriosclerosis after allogeneic aorta transplantation in rats. Geerling RA, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):307–11

2-Chlorodeoxyadenosine in combination with cyclosporine inhibits the development of transplant arteriosclerosis in rat cardiac allografts. Cramer DV, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):616

Protease therapy alleviates allograft arteriosclerosis in rats. Gaciong Z, et al. **Transplant Proc** 1996 Dec;28(6):3439–40

Effect of prostaglandin I2 analogue and thromboxane A2 synthetase inhibitor on chronic rejection in rats. Hirano T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1520

Local administration of estrogen inhibits transplant arteriosclerosis in rat aorta accelerated by topical exposure to IGF-I. Motomura N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1118–20

[Secondary prevention of arteriosclerosis] Hoffmann U, et al. **Schweiz Rundsch Med Prax** 1996 Sep 24;85(39):1201–5 (20 ref.) (Eng. Abstr.) **(Ger)**

[Effect of oxygen aeroions on hemostasis and development of arteriosclerosis in hypodynamia] Inchina VI, et al. **Patol Fiziol Eksp Ter** 1996 Apr–Jun;(2):32–5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Mammograms may convey more than breast cancer risk: breast arterial calcification and arterio-sclerotic related diseases in women of the DOM cohort. van Noord PA, et al. **Eur J Cancer Prev** 1996 Dec;5(6):483–7

Atherosclerotic plaque components in human aortas contrasted by ex vivo imaging using fast spin-echo magnetic resonance imaging and spiral computed tomography [published erratum appears in Invest Radiol 1997 Jan;32(1):65] Halliburton SS, et al. **Invest Radiol** 1996 Nov;31(11):724–8

SURGERY

Plaque removal and thrombus dissolution with the photoacoustic energy of pulsed-wave lasers-biotissue interactions and their clinical manifestations. Topaz O. **Cardiology** 1996 Sep–Oct;87(5):384–91 (77 ref.)

Axillary artery cannulation for cardiopulmonary bypass in the presence of diseased ascending aorta [letter] Isomura T, et al. **Eur J Cardiothorac Surg** 1996;10(6):481

Strecker stent placement in the superior mesenteric artery for recurrent ischemic colitis. Peene P, et al. **J Belge Radiol** 1996 Aug;79(4):168–9

Transfer of the second toe to the hand in a patient with Monckeberg's sclerosis. Amillo Garayoa S, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):181–3

[Vena saphena magna in situ bypass to the ankel and foot. A prospective assessment of results of 101 procedures in 94 patients with threatening amputation] Røder OC, et al. **Ugeskr Laeger** 1997 Aug 4;159(32):4846–9 (Eng. Abstr.) **(Dan)**

[Development and evaluation of a spectroscopy system for classification of laser-induced arterial fluorescence spectra] Morguet AJ, et al. **Biomed Tech (Berl)** 1997 Jun; 42(6):176–82 (Eng. Abstr.) **(Ger)**

THERAPY

Percutaneous transluminal angioplasty of the left subclavian artery to prevent or treat the coronary-subclavian steal syndrome. Marques KM, et al. **Am J Cardiol** 1996 Sep 15; 78(6):687–90

Stent placement in the renal artery: three-year experience with the Palmaz stent. Henry M, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):343–50

Assessment of the hemodynamic result of PTA with a Doppler guide wire: initial experience. Hoppe M, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):89–93

[Molecular and cellular mechanisms of arteriosclerosis and restenosis: possibilities of gene therapy] Lüscher TF, et al. **Z Kardiol** 1996 Jul;85(7):495–508 (133 ref.) (Eng. Abstr.) **(Ger)**

[Angina pectoris: progress in diagnosis and treatment. III. Progress in treatment. 1. Control of risk factors of angina pectoris] Teramoto T. **Nippon Naika Gakkai Zasshi** 1997 Feb 10;86(2):242–7 (5 ref.) **(Jpn)**

ULTRASONOGRAPHY

Assessment of the hemodynamic result of PTA with a Doppler guide wire: initial experience. Hoppe M, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):89–93

Atherosclerotic changes in the carotid artery bulb as measured by B-mode ultrasound are associated with the extent of coronary atherosclerosis. Hulthe J, et al. **Stroke** 1997 Jun;28(6):1189–94

[Factors influencing measuring parameters of beginning arteriosclerotic wall changes in carotid arteries in ultrasound] Delcker A, et al. **Rontgenpraxis** 1996 Sep; 49(9):229–34 **(Ger)**

[Intravascular ultrasound. Initial experience and review of the literature] Ledesma M, et al. **Arch Inst Cardiol Mex** 1996 Jul–Aug;66(4):313–21 (33 ref.) (Eng. Abstr.) **(Spa)**

VETERINARY

Localised arteriosclerotic changes in congenital hyperostosis in pigs. Roels S, et al. **Vet Rec** 1996 Nov 2;139(18):446–7

ARTERIOSCLEROSIS, CORONARY see **CORONARY ARTERIOSCLEROSIS**

ARTERIOSCLEROSIS OBLITERANS

[Risk factor, natural history and prognosis of the patients with arteriosclerosis obliterans] Ito M, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):476–80 (12 ref.) (Eng. Abstr.) **(Jpn)**

[The current status of arteriosclerosis obliterans in Japan] Mishima Y. **Nippon Geka Gakkai Zasshi** 1996 Jul; 97(7):467–70 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Arteriosclerosis obliterans and Buerger's disease] Ishimaru S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):553–6 (3 ref.) **(Jpn)**

BLOOD

Alterations in plasma lipids, lipoproteins and high density lipoprotein subfractions in peripheral arterial disease. Mowat BF, et al. **Atherosclerosis** 1997 Jun;131(2):161–6

Effect of purified eicosapentaenoate ethyl ester on fibrinolytic capacity in patients with stable coronary artery disease and lower extremity ischaemia. Tsuruta K, et al. **Coron Artery Dis** 1996 Nov;7(11):837–42

COMPLICATIONS

[Blood coagulation disorders observed in arteriosclerosis obliterans] Ishimaru S. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):481–5 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Critical limb ischemia] Iwai T. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):486–91 (13 ref.) (Eng. Abstr.) **(Jpn)**

[The metabolic syndrome and hyper-Lp(a)-lipoproteinemia in peripheral obliterative atherosclerosis: 2 case reports] Tešić D, et al. **Med Pregl** 1996;49(7–8):313–7 (Eng. Abstr.) **(Scr)**

DIAGNOSIS

[Clinical diagnosis of arteriosclerosis obliterans] Esato K. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):498–503 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Hemodynamic study for the assessment of atherosclerotic occlusive disease] Shigematsu H, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):510–4 (8 ref.) (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

[Medical treatment of arteriosclerosis obliterans (ASO)] Matsuo H. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):520–5 (23 ref.) (Eng. Abstr.) **(Jpn)**

[Atherosclerosis obliterance; thrombolytic therapy] Terada M, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):540–4 (14 ref.) (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Analysis of chronic rejection and obliterative arteriopathy. Possible contributions of donor antigen-presenting cells and lymphatic disruption. Demetris AJ, et al. **Am J Pathol** 1997 Feb;150(2):563–78

METABOLISM

[31P magnetic resonance spectroscopy: a noninvasive method for studying skeletal muscle metabolism in patients with arteriosclerosis obliterans of the vessels of the lower extremities and for assessing the efficacy of vasoprostan

therapy] Sinitsyn VE, et al. **Ter Arkh** 1996;68(12):69–72 **(Rus)**

PATHOLOGY

[Pathology of arteriosclerosis obliterans] Hosoda Y. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):471–5 (17 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Hypertension and peripheral arterial disease: a plethysmographic study. Milio G, et al. **Angiology** 1997 Mar;48(3):241–5

[The clinico-pathological aspects of acute exacerbation of arteriosclerosis obliterance] Nakajima N. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):492–7 (7 ref.) (Eng. Abstr.) **(Jpn)**

[The central hemodynamic status of patients with arteriosclerosis obliterans of the arteries of the lower extremities] Gubka AV, et al. **Klin Khir** 1996;(7):19–21 **(Rus)**

RADIOGRAPHY

[Angiography of extremities] Yasuda K, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):515–9 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Atherectomy in patients with arteriosclerosis obliterans: angiographic follow-up study of 186 lesions in 146 patients] Kumakura H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):638–43 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Oxygen-15-water PET assessment of muscular blood flow in peripheral vascular disease. Burchert W, et al. **J Nucl Med** 1997 Jan;38(1):93–8

RADIOTHERAPY

[The potentials of laser and electromagnetic-laser therapy in the treatment of patients with arteriosclerosis obliterans of the vessels of the lower extremities] Galimzianov FV. **Vestn Khir Im I I Grek** 1996;155(5):37–9 (Eng. Abstr.) **(Rus)**

SURGERY

The role of low-density lipoprotein apheresis as postoperative care of bypass grafting for chronic arterial occlusion. Takagi M, et al. **Cardiovasc Surg** 1996 Aug; 4(4):459–65

Effect of elastase on primary graft patency after femoralpopliteal arterial bypass for arteriosclerosis obliterans: a randomized, controlled study. Fujioka K, et al. **Int Surg** 1997 Jan-Mar;82(1):94–7

[Clinical experience of laser angioplasty for the peripheral and coronary arterial diseases] Okada M, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):526–31 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Surgical treatment of aorto-iliac occlusive disease] Okadome K, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):545–50 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Femoropopliteal bypass for patients with arteriosclerosis obliterans] Sasajima T. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):551–6 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Reconstruction of the crural artery in atherosclerotic occlusive arterial disease] Tada Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):557–62 (Eng. Abstr.) **(Jpn)**

[Atherectomy in patients with arteriosclerosis obliterans: angiographic follow-up study of 186 lesions in 146 patients] Kumakura H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):638–43 (Eng. Abstr.) **(Jpn)**

[Preoperative efferent therapy of patients with atherosclerosis obliterans of the lower limbs] Neimark MI, et al. **Anesteziol Reanimatol** 1997 Mar-Apr;(2):58–61 (Eng. Abstr.) **(Rus)**

THERAPY

Low-density lipoprotein adsorption for arteriosclerotic patients. Sato Y, et al. **Artif Organs** 1996 Apr;20(4):324–7

Heparin and exercise treatment in a patient with arteriosclerosis obliterans. Shioji K, et al. **Jpn Circ J** 1997 Aug;61(8):715–8

[Treatment of arteriosclerotic obstruction by blood purification] Agishi T. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):563–7 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical results of directional peripheral atherectomy] Hoshino S, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul; 97(7):568–73 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Balloon angioplasty and metallic stent] Nishimine K, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):532–9 (24 ref.) (Eng. Abstr.) **(Jpn)**

[A method for external painful stimulation in the treatment of arteriosclerosis obliterans of the vessels of the lower extremities] Uglov FG, et al. **Vestn Khir Im I I Grek** 1997; 156(2):44–6 (Eng. Abstr.) **(Rus)**

ARTERIOSCLEROTIC DEMENTIA see **DEMENTIA, VASCULAR**

ARTERIOVENOUS ANASTOMOSIS

Single versus dual venous drainage of the radial forearm free flap. Futran ND, et al. **Am J Otolaryngol** 1996 Mar-Apr; 17(2):112–7

ANATOMY & HISTOLOGY

In vivo documentation of an arteriovenous shunt in rat pancreatic acinar tissue. Menger MD, et al. **Pancreas** 1996 Aug;13(2):125–9

DRUG EFFECTS

Effects of S20749, a close analogue of sumatriptan, on porcine carotid haemodynamics and human isolated coronary artery. Saxena PR, et al. **Pharmacol Toxicol** 1996 Oct; 79(4):199–204

EMBRYOLOGY

Development of arteriovenous anastomoses in Rattus norvegicus species during the fetal period. Cimen M, et al. **Okajimas Folia Anat Jpn** 1996 Dec;73(5):253–63

PHYSIOLOGY

Local constriction of arteriovenous anastomoses in the cooled finger. Bergersen TK, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R880–6

Control of arteriovenous anastomoses in rabbit ear model of digital perfusion. Pollock DC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2007–13

ULTRASTRUCTURE

Immunoelectron microscopical characterization of the epithelioid type of smooth muscle cells in human glomus organs. Kasper M, et al. **Ultrastruct Pathol** 1997 Sep-Oct; 21(5):425–30

ARTERIOVENOUS ANEURYSM see **ARTERIOVENOUS FISTULA**

ARTERIOVENOUS FISTULA

see related
ARTERIOVENOUS MALFORMATIONS

Pathogenesis and management of upper-extremity ischemia following angioaccess surgery. Haimov M, et al. **Blood Purif** 1996;14(5):350–4

Ocular fibrinolysis in native arteriovenous fistulas of haemodialysis patients. Haznedaroğlu IC, et al. **Blood Purif** 1996;14(3):227–33

Fistulous connection between the left pulmonary artery and the innominate vein. Aydoğdu S, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):80–1

Streptokinase therapy in treatment of thrombosis of arteriovenous fistula [letter] Taparia BN, et al. **J Assoc Physicians India** 1995 Jun;43(6):445

Relevance of the ulnaris fistula as a dialysis shunt [letter] Kinnaert P. **Nephrol Dial Transplant** 1995 Dec;10(12):2379

The importance of delay in cannulation after hemodialysis vascular access surgery [letter] Diskin CJ, et al. **Nephron** 1996;74(1):245–9

The treatment of chronic hemodialysis vascular access by directional atherectomy. Mizumoto D, et al. **Nephron** 1996; 74(1):45–52

[Idiopathic renal arteriovenous fistula] Bennani S, et al. **Prog Urol** 1996 Jun;6(3):429–33 (Eng. Abstr.) **(Fre)**

[Results of surgical treatment of pregnancy-associated pelvic vein thrombosis] Fruhwirth J, et al. **Z Geburtshilfe Neonatol** 1997 May-Jun;201(3):91–4 (Eng. Abstr.) **(Ger)**

[Arteriovenous fistula] Matsuo H. **Ryoikibetsu Shokogun Shirizu** 1996;(14):531–4 (3 ref.) **(Jpn)**

[Pulmonary arteriovenous fistula] Yamashita M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):311–3 (14 ref.) **(Jpn)**

BLOOD

Local hemostatic kinetics in patent and thrombosed vascular accesses of hemodialysis patients [letter; comment] Erdem Y, et al. **Clin Nephrol** 1997 Mar;47(3):208. Comment on: Clin Nephrol 1996 Jul;46(1):77–8.

COMPLICATIONS

Chronic pain of vascular origin caused by a parietopulmonary fistula of the thoracic wall. Jeanfaivre T, et al. **Ann Thorac Surg** 1997 Mar;63(3):839–41

Aortocaval fistula associated with abdominal aortic aneurysm: a diagnostic challenge. Bednarkiewicz M, et al. **Ann Vasc Surg** 1997 Sep;11(5):464–6

Ocular complications in Ehlers-Danlos syndrome type IV. Pollack JS, et al. **Arch Ophthalmol** 1997 Mar;115(3):416–9

Left ventricular gas emboli in six cases of altitude-induced decompression sickness. Pilmanis AA, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1092–6

A case of large neonatal arteriovenous malformation with heart failure. Color Doppler sonography, MRI and MR angiography as early non-invasive diagnostic procedures. Hayashi T, et al. **Brain Dev** 1996 May-Jun;18(3):236–8

Arterial hypoxemia during pregnancy caused by pulmonary arteriovenous microfistulas. Wilmshurst P, et al. **Chest** 1996 Nov;110(5):1368–9

Recurrent brain abscesses in an HIV-positive patient with hereditary hemorrhagic telangiectasia and arteriovenous malformations of the lung. Thurnheer R, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):407–10 (20 ref.)

Mesenteric arteriovenous fistula causing portal hypertension and bleeding duodenal varices. Baranda J, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1223–5

Inferior vena cava thrombosis, aortocaval fistula and aortic aneurysm: a unique combination. van Keulen CJ, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):501–2

Regression of lupus endocarditis after treatment of an arteriovenous fistula. Herreros-Guilarte B, et al. **Int J Cardiol** 1996 Jul 26;55(2):199–203

Right coronary artery aneurysm with associated arteriovenous fistula. Shimaya K, et al. **Int J Cardiol** 1997 Jan 31;58(2):192–4

NO treatment in a patient with severe right-to-left shunt due to an intrapulmonary av-fistula [letter] Schölly DM, et al. **Intensive Care Med** 1996 Nov;22(11):1281–2

Comment on "Isolated trochlear nerve palsy secondary to dural carotid-cavernous sinus fistula" by Aki K. Selky and Valerie A. Purvin (JNO 14(1): 52–54, 1994) [letter; comment] Sogg RL. **J Neuroophthalmol** 1996 Mar;16(1):69 . Comment on: J Neuroophthalmol 1994 Mar;14(1):52–4.

Transient global amnesia and dural arteriovenous fistula of the anterior cranial fossa. Takahashi Y, et al. **Kurume Med J** 1996;43(3):223–9

Ear buzzing and lumbar pain revealing a late arteriovenous fistula of the kidney. Badid C, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1150–2

Spontaneous renal arteriovenous fistula as a cause of haematuria. Fogazzi GB, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):350–6 (67 ref.)

Cerebellar abscess associated with pulmonary arteriovenous fistula and hereditary hemorrhagic telangiectasia--case report. Ogino M, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):575–9

Choroidal detachment associated with direct spontaneous carotid-cavernous sinus fistula. Berk AT, et al. **Ophthalmologica** 1997;211(1):53–5

Remodelling of choroidal circulation in carotid cavernous sinus fistula. Sutoh N, et al. **Retina** 1996;16(6):497–504

Dural arteriovenous fistula of the spinal cord: an uncommon cause of myelopathy. Wityk RJ. **Semin Neurol** 1996 Mar; 16(1):27–32 (29 ref.)

Simultaneous manifestation of an aortocaval and aortoduodenal fistula. Bengisun U, et al. **Vasa** 1996; 25(1):81–3

Bilateral coronary arteriovenous fistula coexistent with atrial septal defect and pulmonary stenosis. Ha JW, et al. **Yonsei Med J** 1997 Jun;38(3):190–2

[Clinical judgment and decision making in clinical practice. A free spirit with imminent paraplegia (see comments) (published erratum appears in Net Tijdschr Geneeskd 1997 Mar 1;141(9):456)] van Gijn J, et al. **Ned Tijdschr Geneeskd** 1997 Feb 15;141(7):322–7 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Mar 29;141(13):652. **(Dut)**

[Chronic central cyanosis in children; always an indication for further diagnosis] Zeebregts CJ, et al. **Ned Tijdschr Geneeskd** 1997 Apr 19;141(16):753–5 (Eng. Abstr.) **(Dut)**

[Angiosarcoma arising from an arterio-venous fistula in a renal transplant recipient. An unusual complication] Medioni LD, et al. **Ann Pathol** 1996;16(3):200–2 (19 ref.) (Eng. Abstr.) **(Fre)**

[Pulmonary arteriovenous fistula: a rare cause of progressive asymptomatic cyanosis in neonates] Makki-Awada D, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):713–7 (Eng. Abstr.) **(Fre)**

[A rare cause of diplopia: a sinus cavernous dural fistula. A case report] Slaba S, et al. **J Med Liban** 1997;45(2):102–6 (Eng. Abstr.) **(Fre)**

[Painful ophthalmoplegia disclosing dural fistula of the anterior cranial fossa] Derex L, et al. **Rev Neurol (Paris)** 1997 May;153(4):275–7 (Eng. Abstr.) **(Fre)**

[Diarrhea, massive ascites, and portal hypertension: rare case of a splenic arterio-venous fistula (letter)] Paquet KP. **Z Gastroenterol** 1996 Nov;34(11):XXI **(Ger)**

[Symptomatic arteriovenous fistula in a patient with neurofibromatosis type I] Anegawa S, et al. **No Shinkei Geka** 1997 Apr;25(4):373–8 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Recanalization of dural sinus occlusion following the disappearance of dural arteriovenous fistula: report of a case] Mori F, et al. **No Shinkei Geka** 1996 Jul;24(7):631–6 (Eng. Abstr.) **(Jpn)**

[Dural arteriovenous fistulas of the posterior fossa associated with lateral sinus thrombosis presenting as progressive visual impairment] Iwakawa J, et al. **Rinsho Shinkeigaku** 1996 Sep;36(9):1095–9 (Eng. Abstr.) **(Jpn)**

[Disordered visual functions in patients with a traumatic carotid-cavernous fistula] Ryzhova IP. **Lik Sprava** 1997 Mar-Apr;(2):25–31 (44 ref.) **(Rus)**

[Posttraumatic hematuria associated with pelvic arteriovenous fistula] Fernández Gómez JM, et al. **Arch Esp Urol** 1997 May;50(4):400–3 (Eng. Abstr.) **(Spa)**

ARTERIOVENOUS FISTULA

CONGENITAL

Congenital mesenteric aneurysm and mesenteric arterioportal fistula. Paşaoğlu E, et al. **Abdom Imaging** 1996 Sep–Oct; 21(5):451–2 (10 ref.)

Congenital coronary arteriovenous fistula: spontaneous rupture and cardiac tamponade. Bauer HH, et al. **Ann Thorac Surg** 1996 Nov;62(5):1521–3

A case of large neonatal arteriovenous malformation with heart failure. Color Doppler sonography, MRI and MR angiography as early non–invasive diagnostic procedures. Hayashi T, et al. **Brain Dev** 1996 May–Jun;18(3):236–8

Hepatic arterioportal fistula: a curable cause of portal hypertension in infancy. Billing JS, et al. **HPB Surg** 1997; 10(5):311–4

Special imaging casebook. Vein of Galen aneurysm. Herman TE, et al. **J Perinatol** 1996 May–Jun;16(3 Pt 1):234–5

[Congenital arterio–venous coronary fistula associated with patent ductus arteriousus: description of a clinical case and review of the literature] Imperadore F, et al. **Cardiologia** 1997 May;42(5):525–8 (Eng. Abstr.) **(Ita)**

[A case of congenital AVM in temporoparietal muscle] Nishimura T, et al. **No Shinkei Geka** 1996 Mar;24(3):277–80 (Eng. Abstr.) **(Jpn)**

[Coronary arteriovenous fistula] Uematsu M. **Ryoikibetsu Shokogun Shirizu** 1996;(12):797–9 (8 ref.) **(Jpn)**

[Massive pulmonary arteriovenous fistula. A rare, potentially curable cause of hypoxia in the newborn] Amaral FV, et al. **Arq Bras Cardiol** 1996 Jun;66(6):353–5 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Spinal dural arterio–venous fistula: an underdiagnosed disease? Grandin C, et al. **Acta Neurol Belg** 1997 Mar; 97(1):17–21 (6 ref.)

Intracranial dural arteriovenous fistulas with spinal venous drainage: relation between clinical presentation and angiographic findings. Brunereau L, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1549–54

Small isolated paraspinal arteriovenous fistula. Chen CJ, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):359–61

Identification of the feeding arteries of spinal vascular lesions via phase–contrast MR angiography with three–dimensional acquisition and phase display. Mascalchi M, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):351–8

Dural arteriovenous fistula at the craniocervical junction with perimedullary venous drainage. Mascalchi M, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1137–41

Aortocaval fistula: diagnosis with MR angiography. Schott EE 3rd, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):59–61

Aortocaval fistula associated with abdominal aortic aneurysm: a diagnostic challenge. Bednarkiewicz M, et al. **Ann Vasc Surg** 1997 Sep;11(5):464–6

Pontine venous congestion caused by dural carotid–cavernous fistula: report of two cases. Uchino A, et al. **Eur Radiol** 1997;7(3):405–8

Optic chiasmal compression by venous aneurysm: magnetic resonance imaging diagnosis. Wolansky LJ, et al. **J Neuroimaging** 1997 Jan;7(1):46–7

Bilateral diffuse uveal melanocytic proliferation simulating an arteriovenous fistula. Murphy MA, et al. **J Neuroophthalmol** 1997 Sep;17(3):166–9

Spinal dural arteriovenous fistulas: recognizing the spectrum of magnetic resonance imaging findings. Jones BV, et al. **J Spinal Cord Med** 1997 Jan;20(1):43–8

Branham's sign is an exaggerated Bezold–Jarisch reflex of arteriovenous fistula [letter] Wattanasirichaigoon S, et al. **J Vasc Surg** 1997 Jul;26(1):171–2

Vascular lesions in the orbit. Forbes G. **Neuroimaging Clin N Am** 1996 Feb;6(1):113–22 (22 ref.)

Contrast–enhanced MRI in spinal arteriovenous malformations and fistulae before and after embolisation therapy. Hasuo K, et al. **Neuroradiology** 1996 Oct; 38(7):609–14

Vascular complications in lumbar disk surgery: report of four cases. Szolar DH, et al. **Neuroradiology** 1996 Aug; 38(6):521–5

Diagnosis of carotid–cavernous fistulas with magnetic resonance angiography—demonstrating the draining veins utilizing 3–D time–of–flight and 3–D phase–contrast techniques. Ikawa F, et al. **Neurosurg Rev** 1996;19(1):7–12

Diagnosis of traumatic carotid–cavernous sinus fistula by monitoring venous oxygen saturation in the jugular bulb: report of two cases. Delle Corte F, et al. **Neurosurgery** 1996 Aug;39(2):390–2; discussion 392–3

Antepartum diagnosis of pelvic arteriovenous malformation. Ramin KD, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):647–50

Pituitary gland enlargement secondary to dural arteriovenous fistula in the cavernous sinus: appearance at MR imaging. Sato N, et al. **Radiology** 1997 Apr;203(1):263–7

[Dural carotid–cavernous fistula with uveal effusion syndrome] Moldovan SM, et al. **J Fr Ophtalmol** 1997; 20(3):217–20 (Eng. Abstr.) **(Fre)**

[Diagnosis of a post–thrombophlebitic dural fistula using MR angiography] Meyer X, et al. **J Neuroradiol** 1996 Sep; 23(2):69–73 (Eng. Abstr.) **(Fre)**

[Dural carotid–cavernous sinus fistulas: clinical aspects, diagnosis and therapeutic intervention] Hoops JP, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):392–7 (Eng. Abstr.) **(Ger)**

[Arterioportal fistulas in the extra–hepatic circulation of the common hepatic artery. Diagnosis and radiologic interventional therapy] Klinkner J, et al. **Radiologe** 1996 Jul;36(7):586–90 (Eng. Abstr.) **(Ger)**

[Spontaneous carotid–cavernous fistula: correlations between clinical findings and venous drainage] Calzolari F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):358–66 (14 ref.) (Eng. Abstr.) **(Ita)**

[Renal arteriovenous fistula] Taniyama Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):320–2 (10 ref.) **(Jpn)**

[Carotid–cavernous fistula—diagnostic possibilities of color doppler ultrasonography] Stefańczyk L, et al. **Klin Oczna** 1996 Jan;98(1):51–3 (Eng. Abstr.) **(Pol)**

[Myelographic diagnosis of an epidural arterio–venous fistula] Muñoz A, et al. **Rev Neurol** 1997 Aug;25(144):1203–6 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

[An unusual combination of carotid artery–cavernous sinus fistula and sinus thrombosis. Successful therapy with anticoagulation] Yousry TA, et al. **Nervenarzt** 1997 Feb; 68(2):135–8 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Vascular complications of lumbar disc surgery. Fruhwirth J, et al. **Acta Neurochir (Wien)** 1996;138(8):912–6

Traumatic carotid–cavernous sinus fistula with spontaneous resolution. Ferrera PC. **Am J Emerg Med** 1997 Jul; 15(4):386–8

Secondary rupture of an iliac artery aneurysm after exclusion–bypass. Batt M, et al. **Ann Vasc Surg** 1996 May; 10(3):296–9

Traumatic arteriovenous fistula of the superficial temporal vessels: a case for protective headgear when playing squash? Stubington SR, et al. **Br J Sports Med** 1995 Dec; 29(4):275–6

Re: Embolization of posttraumatic high–flow priapism [letter; comment] Kessel D, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):237–8. Comment on: Cardiovasc Intervent Radiol 1996 Jul–Aug;19(4):278–80. Comment on: Cardiovasc Intervent Radiol 1996 Jul–Aug;19(4):281–4.

Internal mammary vein to coronary artery anastomotic fistula. Aroney CN, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):407–9

Traumatic thoracic fistulas. Sebastian MW, et al. **Chest Surg Clin N Am** 1997 May;7(2):385–400 (33 ref.)

Arteriovenous shunting in hepatocellular carcinoma: its prevalence and clinical significance. Ngan H, et al. **Clin Radiol** 1997 Jan;52(1):36–40

Mesenteric arteriovenous fistula after vascularized pancreas transplantation resulting in graft dysfunction. Lowell JA, et al. **Clin Transplant** 1996 Jun;10(3):278–81

Arteriovenous fistula and pseudoaneurysm formation following heel endoscopy. O'Brien SP, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):240–1

Arteriovenous fistula following nephrectomy. Kajbafzadeh AM, et al. **Eur Urol** 1997;31(1):112–4 (12 ref.)

Pseudoaneurysm with an arteriovenous fistula of the tibial vessels after plantar fasciotomy: a case report. Nierenberg G, et al. **Foot Ankle Int** 1997 Aug;18(8):524–5

Arterioportal fistula and hemobilia with associated acute cholecystitis: a complication of percutaneous liver biopsy. Cacho G, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):1020–3

Massive haemorrhage presenting as a complication after percutaneous nephrolithotomy (PCNL). Sacha K, et al. **Int Urol Nephrol** 1996;28(3):315–8

Aortocaval fistula in ruptured inflammatory abdominal aortic aneurysm. A report of two cases and literature review. Farid A, et al. **J Cardiovasc Surg (Torino)** 1996 Dec; 37(6):561–5 (24 ref.)

Ruptured aortic pseudo–aneurysm: a rare presentation as aortocaval fistula. Pagni S, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):165–8

Arteriovenous fistula as a complication of C1–2 transarticular screw fixation. Case report and review of the literature. Coric D, et al. **J Neurosurg** 1996 Aug;85(2):340–3 (20 ref.)

Spinal epidural arteriovenous fistula with intramedullary reflux. Case report. Pirouzmand F, et al. **J Neurosurg** 1997 Oct;87(4):633–5

Intrahepatic arterioportal fistula after hepatic gunshot wound: a case report and review of the literature. Eastridge BJ, et al. **J Trauma** 1997 Sep;43(3):523–6 (29 ref.)

Stroke following central venous cannulation [letter] [see comments] Mainland PA, et al. **Lancet** 1997 Mar 29; 349(9056):921. Comment in: Lancet 1997 Jun 7;349(9066):1699.

Arteriovenous fistula: a complication following renal biopsy of suspected bilateral Wilms' tumor [clinical conference] Coppes MJ, et al. **Med Pediatr Oncol** 1997 Jun;28(6):455–61

Arterial injuries following diagnostic, therapeutic, and accidental arterial cannulation in haemodialysis patients. Cina G, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1448–52

Dural arteriovenous fistula caused by jugular vein stenosis—case report. Matsuyama T, et al. **Neurol Med Chir (Tokyo)** 1997 Apr;37(4):340–2

Direct carotid cavernous fistula after trigeminal balloon microcompression gangliolysis: case report [letter; comment] Brown JA. **Neurosurgery** 1997 Apr;40(4):886. Comment on: Neurosurgery 1996 Oct;39(4):853–5; discussion 855–6.

Deep retinal vascular anomalous complexes in advanced age–related macular degeneration. Hartnett ME, et al. **Ophthalmology** 1996 Dec;103(12):2042–53

Arteriovenous fistula after temporomandibular joint arthroscopy treated with external carotid embolization. Scholl PD, et al. **Otolaryngol Head Neck Surg** 1997 Jul; 117(1):124–6

Arteriovenous fistula of the scalp secondary to punch autograft hair transplantation: angioarchitecture, histopathology, and endovascular and surgical therapy. Davis AJ, et al. **Plast Reconstr Surg** 1997 Jul;100(1):242–9 (35 ref.)

Traumatic arteriovenous fistula. Case report and overview. Matič A, et al. **Rozhl Chir** 1996 Oct;75(10):489–91

Thoracic aortocaval fistula due to gunshot wound. Semiz E, et al. **Thorac Cardiovasc Surg** 1996 Oct;44(5):261–3

Local recurrence of renal cell carcinoma causing duodenal–inferior vena caval fistula: case report and review of the literature. Benjamin DS, et al. **Urology** 1996 Oct; 48(4):636–8 (16 ref.)

[Arteriovenous lung fistula as a pulmonary complication of biliary cirrhosis] Kramann B, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):502–4 (17 ref.) **(Ger)**

[Incidence and therapy of peripheral arterial vascular complications after heart catheter examinations] Heintzen MP, et al. **Z Kardiol** 1997 Apr;86(4):264–72 (Eng. Abstr.) **(Ger)**

[Traumatic common carotid–internal jugular fistula: positive aspect] Avrahami R, et al. **Harefuah** 1997 Jun 15; 132(12):841–3, 911 (Eng. Abstr.) **(Heb)**

[Treatment of intrahepatic arteriovenous fistula after biopsy. Results in 5 chemoembolization candidates with hepatocarcinoma] Maspes F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):418–24 (Eng. Abstr.) **(Ita)**

[Posttraumatic carotid–cavernous fistula: diagnosis and treatment—exemplified by a patient with a fistula following a blunt head injury] Dowżenko A, et al. **Neurol Neurochir Pol** 1997 Jan–Feb;31(1):181–6 (Eng. Abstr.) **(Pol)**

[Pulmonary infarction as a complication of thrombotic changes in an arteriovenous fistula of a patient with terminal renal insufficiency treated with long–term hemodialysis and recombinant human erythropoietin] Wanic–Kossowska M, et al. **Pol Merkuriusz Lek** 1996 Jul; 1(1):47–8 (Eng. Abstr.) **(Pol)**

[Complications of renal oligobiopsy with regard to highly selective renal artery embolization as a method treatment—case report] Hyla–Klekot L, et al. **Przegl Lek** 1996;53(7):582–4 (Eng. Abstr.) **(Pol)**

[Post–traumatic arteriovenous fistulae and pseudoaneurysms] Davidović L, et al. **Vojnosanit Pregl** 1997 Jan–Feb; 54(1):5–10 (Eng. Abstr.) **(Scr)**

[Current knowledge of posttraumatic AV fistulae and pseudoaneurysms] Davidović L. **Vojnosanit Pregl** 1997 Mar–Apr;54(2):155–60 (72 ref.) **(Scr)**

METABOLISM

The role of angiogenic factor bFGF in the development of dural AVFs. Terada T, et al. **Acta Neurochir (Wien)** 1996; 138(7):877–83

MICROBIOLOGY

Infectious arterial aneurysms: patterns and treatment. Illuminati G, et al. **Riv Eur Sci Med Farmacol** 1996 Mar–Apr;18(2):53–60

PATHOLOGY

Giant perimedullary arteriovenous fistulas of the spine: clinical and radiologic features and endovascular treatment. Ricolfi F, et al. **AJNR Am J Neuroradiol** 1997 Apr; 18(4):677–87

Prosthetic arteriovenous fistulas and venous anastomotic stenosis: influence of a high flow velocity on the development of intimal hyperplasia. Hofstra L, et al. **Blood Purif** 1996;14(5):345–9

Anastomotic intimal hyperplasia in prosthetic arteriovenous fistulas for hemodialysis is associated with initial high flow velocity and not with mismatch in elastic properties. Hofstra L, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1625–33

Extracranial vertebral arteriovenous fistula presenting as an osteolytic lesion of the axis. Case report. Shin SH, et al. **J Korean Med Sci** 1996 Dec;11(6):532–6

Vein of Galen aneurysmal malformation in a neonate treated by endovascular surgery—case report. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):893–900

Hypothalamic hamartoma associated with dural arteriovenous fistula of the transverse–sigmoid sinus—case report. Matsuyama T, et al. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):468–71

Spinal A–V fistula [letter; comment] Nacimiento W, et al. **Neurology** 1996 Oct;47(4):1108–9. Comment on: Neurology 1995 Jul;45(7):1309–13.

Histopathological aspects of dural arteriovenous fistulas in the transverse–sigmoid sinus region in nine patients. Hamada Y, et al. **Neurosurgery** 1997 Mar;40(3):452–6; discussion 456–8

[Clinical judgement and decision making in clinical practice. A free spirit with imminent paraplegia (letter; comment)]

Groen RJ, et al. **Ned Tijdschr Geneeskd** 1997 Mar 29; 141(13):652. Comment on: Ned Tijdschr Geneeskd 1997 Feb 15;141(7):322–7. **(Dut)**

[Direct carotid–cavernous fistula. Clinical, radiologic and therapeutic studies. Apropos of 49 cases] Desal H, et al. **J Neuroradiol** 1997 Aug;24(2):141–54 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Effect of angiotensin II on arteriovenous shunting assessed by hepatic arterial perfusion scintigraphy. Inoue Y, et al. **Am J Clin Oncol** 1997 Jun;20(3):237–41

Management of Caesarean delivery in the presence of a large pelvic vascular malformation. Gray C, et al. **Anaesthesia** 1996 Oct;51(10):961–4

Recording of unexpectedly high frequency vibrations of blood vessel walls in experimental arteriovenous fistulae of rabbits using a laser vibrometer. Stehbens WE, et al. **Biorheology** 1995 Nov–Dec;32(6):631–41

Renal effects of concurrent E–24.11 and ACE inhibition in the aorto–venocaval fistula rat. Kirk JE, et al. **Br J Pharmacol** 1996 Nov;119(5):943–8

Ketoprofen and carotico–cavernous fistula. Burton EA, et al. **Cephalalgia** 1997 Feb;17(1):40–1

A case of paradoxical worsening of dural–sinus arteriovenous malformation syndrome after neurosurgery. Nagy ZZ, et al. **Eur J Ophthalmol** 1995 Oct–Dec;5(4):265–70

The arterioportal fistula syndrome: clinicopathologic features, diagnosis, and therapy. Vauthey JN, et al. **Gastroenterology** 1997 Oct;113(4):1390–401

Arteriovenous fistula obstruction and expression of platelet receptors for von Willebrand factor and for fibrinogen (glycoproteins GPib and GPiib/iiia) in hemodialysis patients. Liani M, et al. **Int J Artif Organs** 1996 Aug; 19(8):451–4

Superior oblique myokymia associated with a dural arteriovenous fistula. Geis TC, et al. **J Neuroophthalmol** 1996 Mar;16(1):41–3

Hemodynamic and metabolic disturbances in patients with intracranial dural arteriovenous fistulas: positron emission tomography evaluation before and after treatment [published erratum appears in J Neurosurg 1997 Jul;87(1):138] Iwama T, et al. **J Neurosurg** 1997 May; 86(5):806–11

Arteriovenous fistulas aggravate the hemodynamic effect of vein bypass stenoses: an in vitro study. Nielsen TG, et al. **J Vasc Surg** 1996 Dec;24(6):1043–9

The effect of arteriovenous fistulae in haemodialysis patients on whole body and segmental bioelectrical impedance. Woodrow G, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):524–7

Cerebellar abscess associated with pulmonary arteriovenous fistula and hereditary hemorrhagic telangiectasia––case report. Ogino M, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):575–9

Long–term changes in intracranial dural arteriovenous fistulae leading to worsening in the type of venous drainage. Cognard C, et al. **Neuroradiology** 1997 Jan;39(1):59–66

PREVENTION & CONTROL

Traumatic arteriovenous fistula of the superficial temporal vessels: a case for protective headgear when playing squash? Stubington SR, et al. **Br J Sports Med** 1995 Dec; 29(4):275–6

RADIOGRAPHY

Radiological diagnosis and therapy of pulmonary arteriovenous fistulae in a patient with an atypical clinical history: a case report. Debaere C, et al. **Bull Soc Sci Med Grand Duche Luxemb** 1997;134(1):5–8

Arteriovenous fistula at the site of balloon dilatation complicating femoropopliteal angioplasty. Maicolm PN, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):54–6

Images in cardiovascular medicine. Bilateral congenital coronary arteriovenous fistulas with giant aneurysms. Lee WR, et al. **Circulation** 1997 Apr 15;95(8):2170–1

Angiographical and computed tomographic findings in diffuse pulmonary arteriovenous fistulas. Hamada H, et al. **Int J Cardiol** 1997 Apr 18;59(2):203–5

Transient subsegmental hepatic parenchymal enhancement on dynamic CT: a sign of postbiopsy arterioportal shunt. Lee SJ, et al. **J Comput Assist Tomogr** 1997 May–Jun; 21(3):355–60

Coronary arteriovenous fistula. Kar AK, et al. **J Indian Med Assoc** 1996 Feb;94(2):67, 75

Diagnosis and management of ureteroiliac artery fistula: value of provocative arteriography followed by common iliac artery embolization and extraanatomic arterial bypass grafting. Vandersteen DR, et al. **J Urol** 1997 Sep;158(3 Pt 1):754–8 (31 ref.)

Angiography in the evaluation of head and neck trauma. Gaskill–Shipley MF, et al. **Neuroimaging Clin N Am** 1996 Aug;6(3):607–24 (69 ref.)

Choroidal detachment and dural carotid–cavernous sinus fistula––case report. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):459–63

Direct carotid cavernous fistula after trigeminal balloon microcompression gangliolysis: case report [see comments] Kuether TA, et al. **Neurosurgery** 1996 Oct;39(4):853–5; discussion 855–6. Comment in: Neurosurgery 1997 Apr;40(4):886.

Small arterial–portal venous shunts: a cause of pseudolesions at hepatic imaging. Yu JS, et al. **Radiology** 1997 Jun; 203(3):737–42

[Dural fistulae of the cavernous sinus and interventional neuroradiology. Apropos of 4 cases] Prigent P, et al. **J Fr Ophtalmol** 1996;19(12):761–9 (32 ref.) (Eng. Abstr.) **(Fre)**

[Cyanosis and multiple pulmonary nodules] Jaffuel D, et al. **Rev Mal Respir** 1996 Oct;13(5):527–9 **(Fre)**

[Risks and therapy options in dural arteriovenous fistulas between branches of the external carotid artery and the cavernous sinus. A case report and review of the literature] Thumann G, et al. **Klin Monatsbl Augenheilkd** 1996 Dec; 209(6):aA10–3 (31 ref.) (Eng. Abstr.) **(Ger)**

[Pulmonary arteriovenous fistula––usefulness of three–dimensional computed tomography] Kobayashi S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1136–9 (Eng. Abstr.) **(Jpn)**

SURGERY

Stent grafting in iliac arteriovenous fistulas [letter; comment] Johnstone RD, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1597. Comment on: AJR Am J Roentgenol 1996 Mar;166(3):673–4.

Endocaval suture of aortocaval fistula. Illuminati G, et al. **Am Surg** 1997 May;63(5):399–400

Traumatic arteriovenous fistula. Maher SM, et al. **Ann Thorac Surg** 1997 Jun;63(6):1792–4

Congenital bilateral coronary–to–pulmonary artery fistulas. Olearchyk AS, et al. **Ann Thorac Surg** 1997 Jul;64(1):233–5

Endovascular repair of peripheral aneurysms, pseudoaneurysms, and arteriovenous fistulas. Criado E, et al. **Ann Vasc Surg** 1997 May;11(3):256–63

Proximal arterial dilatation developing after surgical closure of long–standing posttraumatic arteriovenous fistula. Mellière D, et al. **Ann Vasc Surg** 1997 Jul;11(4):391–6 (21 ref.)

Clinical use of omniflow vascular graft as arteriovenous bridging graft for hemodialysis. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1278–81

Intracranial dural arteriovenous fistulae with pial venous drainage: combined endovascular–neurosurgical therapy. Pelz DM, et al. **Can J Neurol Sci** 1997 Aug;24(3):210–8

Aneurysmatic arteriovenous fistula complicating splenic injury. Sarioğlu A, et al. **Eur J Pediatr Surg** 1996 Jun; 6(3):183–5

Late arteriovenous fistulas and pseudoaneurysms of the extremity secondary to civilian firearms. Porcellini M, et al. **G Chir** 1997 Mar;18(3):91–6

Value of transoesophageal echocardiography in surgical ligation of coronary artery fistulas. Cox ID, et al. **Heart** 1996 Aug;76(2):181–2

Cardiac tamponade due to a rupture of the coronary arteriovenous aneurysm––a case report. Ryu JC, et al. **J Korean Med Sci** 1997 Apr;12(2):143–5

Endovascular management of vertebral arteriovenous fistulas: the Toronto experience. Waitzman AA, et al. **J Otolaryngol** 1996 Oct;25(5):322–8

Video–assisted thoracoscopic local excision of pulmonary arteriovenous fistula. Minami M, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1395–7

Proximal bleeding control obtained by a balloon catheter in the surgical repair of a left supraclavicular traumatic arteriovenous fistula. Nemes A, et al. **J Vasc Surg** 1997 Mar;25(3):587–90

Microsurgical interhemispheric approach to dural arteriovenous fistulas of the floor of the anterior cranial fossa. Mayfrank L, et al. **Minim Invasive Neurosurg** 1996 Sep;39(3):74–7

Non–traumatic arteriovenous fistulas of the scalp treated by a combination of embolization and surgical removal. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):162–5

Vein of Galen aneurysmal malformation in a neonate treated by endovascular surgery––case report. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):893–900

Use of the extreme lateral approach in the surgical treatment of an intradural ventral cervical spinal cord vascular malformation: technical case report. Markert JM, et al. **Neurosurgery** 1996 Feb;38(2):412–5

Infectious arterial aneurysms: patterns and treatment. Illuminati G, et al. **Riv Eur Sci Med Farmacol** 1996 Mar–Apr;18(2):53–60

Surgery of complex coronary arteriovenous fistula. Olsen LA, et al. **Scand Cardiovasc J** 1997;31(3):169–71

Early closure of coronary cameral fistula in a 3.9 kg infant. Sim EK, et al. **Singapore Med J** 1997 Feb;38(2):79–80

[Carotid–jugular fistula after an attempt at placement of a vena cava filter] Huart JY, et al. **J Mal Vasc** 1996; 21(5):308–11 (Eng. Abstr.) **(Fre)**

[Femoral arteriovenous fistula and transplant malfunction after allogeneic kidney transplantation. A case report] Reek C, et al. **Urologe A** 1997 Jan;36(1):81–3 (Eng. Abstr.) **(Ger)**

[Traumatic common carotid–internal jugular fistula: positive aspect] Avrahami R, et al. **Harefuah** 1997 Jun 15; 132(12):841–3, 911 (Eng. Abstr.) **(Heb)**

[A case of systemic artery to pulmonary vessel fistula] Akahane T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2196–9 (Eng. Abstr.) **(Jpn)**

[Communication between intercostal artery and pulmonary vein––report of a case] Oura S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):691–6 (32 ref.) (Eng. Abstr.) **(Jpn)**

[Dural arteriovenous fistula presenting as acute–onset dementia: a case report] Nakai K, et al. **No Shinkei Geka** 1997 Apr;25(4):349–54 (Eng. Abstr.) **(Jpn)**

[A case of congenital AVM in temporoparietal muscle] Nishimura T, et al. **No Shinkei Geka** 1996 Mar;24(3):277–80 (Eng. Abstr.) **(Jpn)**

[An arteriosinusal anastomosis between the middle meningeal artery and the cavernous sinus. Its surgical treatment using the balloon catheter] Iakovlev SB. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr–Jun; (2):31–3 (19 ref.) **(Rus)**

THERAPY

False aneurysms of the intracavernous carotid artery––report of 7 cases. Bavinzski G, et al. **Acta Neurochir (Wien)** 1997; 139(1):37–43

Microcatheter embolization of arteriovenous fistulas in the subclavian region. Report on three cases. Leppänen MJ, et al. **Acta Radiol** 1996 Nov;37(6):900–3

Combined endovascular and surgical treatment in vertebral arteriovenous fistula. A case report. Nakstad PH, et al. **Acta Radiol** 1997 Jan;38(1):25–9 (19 ref.)

Experimental arteriovenous fistulas: treatment with silicone–covered metallic stents. Geremia G, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):271–7

Endovascular occlusion of the carotid or vertebral artery with temporary proximal flow arrest and microcoils: clinical results. Graves VB, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1201–6

Dangers of endovascular treatment of an unusual carotid cavernous fistula [letter; comment] Komiyama M, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1198–9. Comment on: AJNR Am J Neuroradiol 1995 Sep;16(8):1626–8. Comment on: AJNR Am J Neuroradiol 1995 Oct;16(9):1808–10.

Trigeminal–cavernous fistula: Saltzman anatomy revisited. McKenzie JD, et al. **AJNR Am J Neuroradiol** 1996 Feb; 17(2):280–2

Embolization of dural cavernous fistulas via superior ophthalmic vein approach. Quiñones D, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):921–8

Covered stent placement for neurovascular disease. Singer RJ, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):507–9

Transarterial embolization of a direct carotid cavernous fistula with Guglielmi detachable coils. Siniluoto T, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):519–23

Clinical use of mechanical detachable coils for dural arteriovenous fistula [see comments] Terada T, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1343–8. Comment in: AJNR Am J Neuroradiol 1997 Jun–Jul;18(6):1195.

Embolization of carotid cavernous fistulas via the superior ophthalmic vein. Gioulekas J, et al. **Aust N Z J Ophthalmol** 1997 Feb;25(1):47–53

Radiological diagnosis and therapy of pulmonary arteriovenous fistulae in a patient with an atypical clinical history: a case report. Debaere C, et al. **Bull Soc Sci Med Grand Duche Luxemb** 1997;134(1):5–8

Re: Embolization of posttraumatic high–flow priapism [letter; comment] Kessel D, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):237–8. Comment on: Cardiovasc Intervent Radiol 1996 Jul–Aug;19(4):278–80. Comment on: Cardiovasc Intervent Radiol 1996 Jul–Aug;19(4):281–4.

Percutaneous occlusion of an iatrogenic aortosaphenous vein––coronary vein fistula via retrograde coronary sinus approach. Lopez JJ, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):339–41

Atypical course of carotid cavernous sinus fistula in a six–year–old child. Kanaan I, et al. **Childs Nerv Syst** 1996 Dec;12(12):789–93

Aortocaval fustulae: a percutaneous model and treatment with stent grafts in sheep. Boudghène F, et al. **Circulation** 1996 Jul 1;94(1):108–12

Coronary arteriovenous fistulas: collective review and management of six new cases––changing etiology, presentation, and treatment strategy. Said SA, et al. **Clin Cardiol** 1997 Sep;20(9):748–52 (33 ref.)

Case report: transvenous embolization of a traumatic arteriovenous fistula. Litherland JC, et al. **Clin Radiol** 1996 Dec;51(12):886–9

Residual arteriovenous fistulae after "closed" in situ bypass grafting: an overrated problem. van Dijk LC, et al. **Eur J Vasc Endovasc Surg** 1997 May;13(5):439–42

The arterioportal fistula syndrome: clinicopathologic features, diagnosis, and therapy. Vauthey JN, et al. **Gastroenterology** 1997 Oct;113(4):1390–401

Transcatheter embolisation of an enlarging acquired coronary arteriovenous fistula in a heart transplant recipient. Eccleshall SC, et al. **Heart** 1997 Aug;78(2):203–5

Transcatheter embolisation of pulmonary arteriovenous fistula. Kothari SS, et al. **Indian Pediatr** 1996 Dec; 33(12):1044–7

Poly–lactic–acid coating for endovascular stents. Preliminary results in canine experimental arteriovenous fistulae. Schellhammer F, et al. **Invest Radiol** 1997 Mar;32(3):180–6

Closure of a popliteal arteriovenous fistula using an autologous vein–covered Palmaz stent [see comments] Dorros G, et al. **J Endovasc Surg** 1995 May;2(2):177–81. Comment in: J Endovasc Surg 1995 May;2(2):182.

Transcatheter embolization of a coronary arteriovenous fistula with a complex, helical–fibered platinum coil. Tsai

CW, et al. **J Formos Med Assoc** 1996 Jul;95(7):558–61
Successful transcatheter coil embolizations of complex pulmonary arteriovenous fistulas: the first case in Thailand. Laohaprasitiporn D, et al. **J Med Assoc Thai** 1996 Dec; 79(12):808–12
Cerebral abscess as an unusual complication of coil embolization in a dural arteriovenous fistula. Case report. Zurin AA, et al. **J Neurosurg** 1997 Jul;87(1):109–12
Angiographic embolization of a penetrating traumatic renal arteriovenous fistula. Reilly KJ, et al. **J Trauma** 1996 Oct; 41(4):763–5
Diagnosis and management of ureteroiliac artery fistula: value of provocative arteriography followed by common iliac artery embolization and extraanatomic arterial bypass grafting. Vandersteen DR, et al. **J Urol** 1997 Sep;158(3 Pt 1):754–8 (31 ref.)
Massive hemolysis: a rare complication of transcatheter coil embolization. Duszak R Jr, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):603–6
Endovascular management of a traumatic subclavian arteriovenous fistula. Gomez-Jorge JT, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):599–602
Coil embolization of an internal iliac artery arteriovenous fistula with a Wallstent. Roberts JA, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):611–3
Transcatheter intravascular embolotherapy of renal arteriovenous fistula—method of choice [letter] Schwab M, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2523–4
Non-traumatic arteriovenous fistulas of the scalp treated by a combination of embolization and surgical removal. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):162–5
Treatment of post-traumatic carotico-cavernous fistulae using electrolytically detachable coils: technical aspects and preliminary experience. Bavinzski G, et al. **Neuroradiology** 1997 Feb;39(2):81–5
Dural arteriovenous shunt involving the superior petrosal sinus: presentation and treatment by transvenous embolisation via the occipital and transverse sinuses. Branco G, et al. **Neuroradiology** 1997 Jan;39(1):67–70
The role of CT in evaluation of the effectiveness of embolisation of spinal dural arteriovenous fistulae with N-butyl cyanoacrylate. Cognard C, et al. **Neuroradiology** 1996 Oct;38(7):603–8
Ehlers-Danlos syndrome with a spontaneous caroticocavernous fistula occluded by detachable balloon: case report and review of literature. Forlodou P, et al. **Neuroradiology** 1996 Aug;38(6):595–7 (16 ref.)
Dual microcatheter and guidewire snare technique for retrieval of intravascular foreign body: technical note. Terada T, et al. **Neuroradiology** 1996 Oct;38(7):615–7
Two unusual cases of multiple dural arteriovenous fistulas. Nakamura M, et al. **Neurosurgery** 1997 Jul;41(1):288–92; discussion 292–3
Embolization of spinal dural arteriovenous fistulae: results and follow-up. Niimi Y, et al. **Neurosurgery** 1997 Apr; 40(4):675–82; discussion 682–3 (13 ref.)
The role of transvenous embolization in the treatment of intracranial dural arteriovenous fistulas. Roy D, et al. **Neurosurgery** 1997 Jun;40(6):1133–41; discussion 1141–4
Successful embolization of coronary arteriovenous fistula using an interlocking detachable coil. Ogoh Y, et al. **Pediatr Cardiol** 1997 Mar–Apr;18(2):152–5
Percutaneous angioplasty of arteriovenous (Brescia-Cimino) fistulae in children. Lahoche A, et al. **Pediatr Nephrol** 1997 Aug;11(4):468–72
Transvenous embolization of high flow carotid cavernous fistula: a case report. Ohkawa M, et al. **Radiat Med** 1996 May–Jun;14(3):163–6
Extracranial aneurysm and arteriovenous fistula: embolization with the Guglielmi detachable coil. Klein GE, et al. **Radiology** 1996 Nov;201(2):489–94
Cirsoid aneurysm treatment by percutaneous injection of sodium tetradecyl sulfate. Hendrix LE, et al. **Surg Neurol** 1996 Dec;46(6):557–60; discussion 560–1
Cervical vertebral arteriovenous fistula balloon embolization in a patient with neurofibromatosis type 1. Koenigsberg RA, et al. **Surg Neurol** 1997 Mar;47(3):265–73 (21 ref.)
A case of gross hematuria arising during embolization for renal arteriovenous malformation. Kamai T, et al. **Urol Int** 1997;58(1):55–7
Ultrasound guided compression therapy in 134 patients with iatrogenic pseudo-aneurysms: advantage of routine duplex ultrasound control of the puncture site following transfemoral catheterization. Ugurluoglu A, et al. **Vasa** 1997 May;26(2):110–6
[Cranial dural arteriovenous fistulas—current status of therapy] Neumaier Probst E, et al. **Wien Med Wochenschr** 1997;147(7–8):178–85 (27 ref.) (Eng. Abstr.) **(Ger)**
[Abdominal arteriovenous and arterio-portal fistulas: etiology, diagnosis, therapeutic possibilities] Tomczak R, et al. **Z Gastroenterol** 1997 Jul;35(7):555–62 (57 ref.) (Eng. Abstr.) **(Ger)**
[Spontaneous carotid-cavernous fistula: correlations between clinical findings and venous drainage] Calzolari F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):358–66 (14 ref.) (Eng. Abstr.) **(Ita)**
[Rendu-Osler-Weber disease: embolization of pulmonary arteriovenous fistulas with tungsten coils. Technique and results in 3 cases] Gasparini D, et al. **Radiol Med (Torino)** 1997 Mar;93(3):310–2 **(Ita)**
[Treatment of intrahepatic arteriovenous fistula after biopsy. Results in 5 chemoembolization candidates with hepatocarcinoma] Maspes F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):418–24 (Eng. Abstr.) **(Ita)**
[Pulmonary arterio-venous aneurysm treated decisively with transcatheter embolization. Report of a case] Petronelli S, et al. **Radiol Med (Torino)** 1996 Jul–Aug;92(1–2):157–9 **(Ita)**
[Pulmonary arterio-venous fistula treated by embolization with steel coils] Yoshimi M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):569–74 (Eng. Abstr.) **(Jpn)**
[Dural arteriovenous fistula involving the superior sagittal and transverse-sigmoid sinuses, treated by thrombolysis: case report] Arai T, et al. **No Shinkei Geka** 1997 Jul; 25(7):621–6 (Eng. Abstr.) **(Jpn)**
[Central retinal vein occlusion after embolization for spontaneous carotid cavernous sinus fistula] Fukami T, et al. **No Shinkei Geka** 1996 Aug;24(8):749–53 (Eng. Abstr.) **(Jpn)**
[A case report of the carotid cavernous fistula treated by endovascular embolization using interlocking detachable coil (IDC)] Kawarabuki K, et al. **No Shinkei Geka** 1996 Mar;24(3):273–6 (Eng. Abstr.) **(Jpn)**
[Transarterial platinum coil embolization for direct carotid-cavernous fistula] Momoji J, et al. **No To Shinkei** 1997 Jan;49(1):85–91 (Eng. Abstr.) **(Jpn)**
[Role of transcatheter embolization in intrahepatic arterioportal fistulas] Granov AM, et al. **Vestn Rentgenol Radiol** 1996 Nov-Dec;(6):23–6 (Eng. Abstr.) **(Rus)**
[Post-traumatic arterial priapism resolved using supraselective embolization] Martín Rodríguez A, et al. **Actas Urol Esp** 1996 Jun;20(6):570–3 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Orbital colour Doppler imaging in carotid-cavernous sinus fistula. Aung T, et al. **Aust N Z J Ophthalmol** 1996 May; 24(2):121–6
Comparison of transesophageal and transthoracic contrast echocardiography for detection of an intrapulmonary shunt in liver disease. Vedrinne JM, et al. **Chest** 1997 May; 111(5):1236–40
Value of transoesophageal echocardiography in surgical ligation of coronary artery fistulas. Cox ID, et al. **Heart** 1996 Aug;76(2):181–2
Echo Doppler color flow (EDCF) evaluation of vascular pathology in pediatric age groups. Verlato F, et al. **Int Angiol** 1996 Dec;15(4):321–7
Transesophageal echocardiography on the presurgical and postsurgical evaluation of a coronary arteriovenous fistula. Almeida J, et al. **J Am Soc Echocardiogr** 1997 Apr; 10(3):224–7
Spontaneous closure of selected iatrogenic pseudoaneurysms and arteriovenous fistulae. Toursarkissian B, et al. **J Vasc Surg** 1997 May;25(5):803–8; discussion 808–9
Prenatal ultrasound diagnosis of cerebral arteriovenous fistula. Paladini D, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):678–81
Diagnosis and follow-up of carotid-cavernous fistulas by carotid duplex sonography and transcranial color Doppler imaging. Chen YW, et al. **Ultrasound Med Biol** 1996; 22(9):1155–62
[Lateral cranial dural fistula. Detection with Doppler and duplex ultrasound] Arning C, et al. **Nervenarzt** 1997 Feb; 68(2):139–46 (Eng. Abstr.) **(Ger)**
[Post-traumatic priapism in a 10-year-old boy] Sperling H, et al. **Urologe A** 1997 Mar;36(2):162–4 (11 ref.) (Eng. Abstr.) **(Ger)**
[Role of color Doppler echography (ECD) in the diagnosis and follow-up of post-biopsy arteriovenous fistula in the transplanted kidney] Carrieri G, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):87–9 (Eng. Abstr.) **(Ita)**
[Diagnosis of carotid-cavernous fistula using color Doppler ultrasonography] Chynoranský M, et al. **Cesk Slov Oftalmol** 1997 May;53(2):112–6 (Eng. Abstr.) **(Slo)**

VETERINARY

Suspected microscopic hepatic arteriovenous fistulae in a young dog. Schermerhorn T, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):70–4

ARTERIOVENOUS HEMOFILTRATION see **HEMOFILTRATION**

ARTERIOVENOUS MALFORMATIONS

see related
ANGIOMATOSIS
ARTERIOVENOUS FISTULA
HEMANGIOMA

Osseous craniofacial arteriovenous malformations in the pediatric population. Shapiro NL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):101–5
A rare case of McCune-Albright syndrome associated with glaucoma retinal degeneration and arteriovenous malformations [letter] Scuderi G, et al. **Eye** 1996;10 (Pt 6):752–5
Intestinal vascular anomalies in children. Frémond B, et al. **J Pediatr Surg** 1997 Jun;32(6):873–7
An electrical network model of intracranial arteriovenous malformations: analysis of variations in hemodynamic and biophysical parameters. Hademenos GJ, et al. **Neurol Res** 1996 Dec;18(6):575–89
Progression of pulmonary arteriovenous malformation during pregnancy: case report and review of the literature. Esplin MS, et al. **Obstet Gynecol Surv** 1997 Apr;52(4):248–53 (22 ref.)
[Arteriovenous malformation of the mandible. Apropos of a case in a 6-year-old child] Mosnier I, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(7–8):434–9 (31 ref.) (Eng. Abstr.) **(Fre)**
[Hemangioma and vascular malformations. Diagnosis and treatment] Roald HE, et al. **Tidsskr Nor Laegeforen** 1997 Apr 20;117(10):1480–2 (14 ref.) (Eng. Abstr.) **(Nor)**

CLASSIFICATION

[New terminology for peripheral vascular malformations. A stringent classification is of advantage for the overall view] Tovi M. **Lakartidningen** 1997 Jun 18;94(25):2373–5 **(Swe)**

COMPLICATIONS

Congenital mesenteric aneurysm and mesenteric arterioportal fistula. Paşaoğlu E, et al. **Abdom Imaging** 1996 Sep–Oct; 21(5):451–2 (10 ref.)
Acquired zosteriform naevus flammeus: a cutaneous marker of central nervous system angiomatosis [letter] Requena L, et al. **Acta Derm Venereol** 1996 Mar;76(2):165–6
Upper airway obstruction caused by vascular anomalies in children. Wu JM, et al. **Acta Paediatr Sin** 1996 Mar–Apr; 37(2):122–7
A rare cause of an acute abdomen in late pregnancy. Simpson I, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):435–6
Arteriovenous malformations of the posterior fossa: a report on 28 cases and review of the literature. Symon L, et al. **Br J Neurosurg** 1995;9(6):721–32 (48 ref.)
Arteriovenous malformation of the ureter—a rare cause of haematuria. Tang CN, et al. **Br J Urol** 1997 Sep;80(3):500–1
Arteriovenous malformation in hypomelanosis of Ito. Urgelles E, et al. **Brain Dev** 1996 Jan–Feb;18(1):78–80
Spontaneous intracranial hemorrhage of structural origin during the first year of life. Tekkök IH, et al. **Childs Nerv Syst** 1997 Mar;13(3):154–65 (98 ref.)
Hormonal therapy for bleeding gastrointestinal mucosal vascular abnormalities: a promising alternative. Marshall JK, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):521–5 (60 ref.)
Spontaneous spinal epidural hematomas: is the role of dural arteriovenous malformations underestimated? Brunori A, et al. **Eur Spine J** 1996;5(4):264–7
Rectal bleeding from a mucous fistula secondary to a Dieulafoy's lesion. Abdelmalek MF, et al. **J Clin Gastroenterol** 1997 Jun;24(4):259–61
Massive gastrointestinal bleeding from a Dieulafoy-like lesion of the rectum. Eguchi S, et al. **J Clin Gastroenterol** 1997 Jun;24(4):262–3 (6 ref.)
Large arteriovenous high-flow mandibular, malformation with exsanguinating dental socket haemorrhage: a case report. Fathi M, et al. **J Craniomaxillofac Surg** 1997 Aug; 25(4):228–31
Foot ulcer due to arteriovenous malformation: report of a case. Lee SG, et al. **J Dermatol** 1997 Apr;24(4):255–7
Massive hemoptysis in a child due to pulmonary arteriovenous malformation. Chung Y, et al. **J Emerg Med** 1997 May–Jun;15(3):317–9
Central vascular malformation of the mandible: a case report. Beziat JL, et al. **J Oral Maxillofac Surg** 1997 Apr; 55(4):415–9
A large vascular malformation of the tongue treated with radiation therapy. Rudman RA, et al. **J Oral Maxillofac Surg** 1997 May;55(5):509–14
Index of suspicion. Case 3 presentation. Wear WE. **Pediatr Rev** 1997 Jul;18(7):248, 250–1
Ulnar distribution of reflex sympathetic dystrophy due to compression of the brachial plexus by a primary venous malformation. Magnussen JS, et al. **Skeletal Radiol** 1997 May;26(5):303–5
Recurrent massive hemothorax in Rendu-Osler-Weber syndrome. Adegboyega PA, et al. **South Med J** 1996 Dec; 89(12):1193–6
Spinal intraosseous arteriovenous malformation as a cause of juvenile scoliosis. A case report. Molina A, et al. **Spine** 1997 Jan 15;22(2):221–4
An unusual cause of the high-output state. Gorden J, et al. **Tenn Med** 1997 May;90(5):197–8
[Heyde syndrome] Larsen NH. **Ugeskr Laeger** 1997 Jul 21; 159(30):4628–30 (29 ref.) (Eng. Abstr.) **(Dan)**
[Klippel-Trenaunay-type congenital angiodysplasia syndrome; medical and psychological aspects (see comments)] van der Ploeg MN, et al. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2502–5 (29 ref.) . Comment in: Ned Tijdschr Geneeskd 1997 Mar 29;141(13):650–1. **(Dut)**
[Fatal double tracheo-esophageal vascular compression and neurofibromatosis] Fischberg C, et al. **Arch Pediatr** 1996 Dec;3(12):1253–7 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Vaginal arteriovenous malformation: MR imaging.

Matsumoto K, et al. **Abdom Imaging** 1996 Nov-Dec; 21(6):554-6

Identification of the feeding arteries of spinal vascular lesions via phase-contrast MR angiography with three-dimensional acquisition and phase display. Mascalchi M, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):351-8

Pulmonary arteriovenous malformation: evaluation by MR angiography [letter] Rotondo A, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):847-9

The diagnostic value of magnetic resonance imaging in combination with angiography in patients with vascular malformations: a prospective study. Hovius SE, et al. **Ann Plast Surg** 1996 Sep;37(3):278-85

MR angiography and MR imaging of symptomatic vascular malformations. Dobson MJ, et al. **Clin Radiol** 1997 Aug; 52(8):595-602

Capillary-venous malformation in the labia majora in a 12-year-old girl. Kempinaire A, et al. **Dermatology** 1997; 194(4):405-7

Watermelon stomach [letter; comment] van Blankenstein M. **Endoscopy** 1996 Mar;28(3):328. Comment on: Endoscopy 1995 Feb;27(2):203-6.

Presumed arteriovenous malformation mimicking hemosuccus pancreaticus of Santorini's duct with normal pancreatic anatomy. Williams DM, et al. **Gastrointest Endosc** 1996 Sep;44(3):348-50

Contrast-enhanced MRA in pre-embolization assessment of a pulmonary arteriovenous malformation. Vrachliotis TG, et al. **J Magn Reson Imaging** 1997 Mar-Apr;7(2):434-6

Pulmonary arteriovenous malformations: diagnosis and transcatheter embolotherapy. White RI Jr, et al. **J Vasc Interv Radiol** 1996 Nov-Dec;7(6):787-804 (56 ref.)

A dural arteriovenous fistula fed entirely by the lateral sacral artery. Abe O, et al. **Neuroradiology** 1996 Oct;38(7):618-20

Contrast-enhanced MRI in spinal arteriovenous malformations and fistulae before and after embolisation therapy. Hasuo K, et al. **Neuroradiology** 1996 Oct; 38(7):609-14

Usefulness of three-dimensional phase contrast MR angiography on arteriovenous malformations. Pant B, et al. **Neurosurg Rev** 1997;20(3):171-6

Aberrant left coronary artery arising from the right sinus of Valsalva with a right coronary arteriovenous malformation. Phoon CK, et al. **Pediatr Cardiol** 1997 Sep-Oct;18(5):385-8

Efficacy of magnetic resonance angiography in the evaluation of vascular malformations of the hand. Disa JJ, et al. **Plast Reconstr Surg** 1997 Jan;99(1):136-44; discussion 145-7

Lung-angiodysplasia and von Willebrand's disease in a family with Rendu-Osler disease. A case report. Girola SS, et al. **Recenti Prog Med** 1996 Dec;87(12):589-91 (9 ref.)

Do we need conventional angiography? The role of magnetic resonance imaging in verifying obliteration of arteriovenous malformations after Gamma Knife surgery. Guo WY, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:71-84

Ipsilateral facial and uveal arteriovenous and capillary angioma, microphthalmos, heterochromia of the iris, and hypotony: an oculocutaneous syndrome simulating Sturge-Weber syndrome. Gass JD. **Trans Am Ophthalmol Soc** 1996;94:227-37; discussion 237-9

[Unilateral gigantism of the extremities, venous ectasia and ischemic foot ulcer in a 33-year-old patient] Taute BM, et al. **Internist (Berl)** 1996 Mar;37(3):304-9 **(Ger)**

[Arteriovenous malformations of the cervical spinal cord] Sträter R, et al. **Klin Padiatr** 1997 Mar-Apr;209(2):84-7 (Eng. Abstr.) **(Ger)**

[Symptomatic congenital arteriovenous malformation in the man] Burkhart C, et al. **Urologe A** 1996 Sep;35(5):418-21 (Eng. Abstr.) **(Ger)**

[Venous angiodysplasias with endoral manifestation. The problems of therapy] Di Giovanni A, et al. **Minerva Stomatol** 1996 Mar;45(3):113-9 (12 ref.) (Eng. Abstr.) **(Ita)**

[Venous angiodysplasias of the cheek. The problems of therapy] Di Giovanni A, et al. **Minerva Stomatol** 1996 Apr; 45(4):169-77 (12 ref.) (Eng. Abstr.) **(Ita)**

[Doppler color, computerized tomography, and magnetic resonance of a case of congenital arteriovenous malformation of the pelvic branches of the hypogastric artery] Valdata A, et al. **Radiol Med (Torino)** 1997 Apr; 93(4):466-8 **(Ita)**

[A patient with spinal arteriovenous malformation] Sugai H, et al. **No To Shinkei** 1996 Nov;48(11):1058 **(Jpn)**

[Pelvic arteriovenous malformation] Toma M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):466-8 (11 ref.) **(Jpn)**

[The structure and hemodynamics of arteriovenous malformations of the spinal cord] Tissen TP. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr-Jun;(2):3-7 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Pharmacologic therapy of arteriovenous malformations. Van Cutsem E, et al. **Gastrointest Endosc Clin N Am** 1996 Oct; 6(4):819-32 (62 ref.)

ETIOLOGY

Cavopulmonary shunt and pulmonary arteriovenous malformations [editorial; comment] Kawashima Y. **Ann Thorac Surg** 1997 Apr;63(4):930-2. Comment on: Ann Thorac Surg 1997 Apr;63(4):960-3.

"Congenital" coronary arteriovenous malformations: are they truly congenital? [see comments] Rozenman Y, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):166-7. Comment in: Cathet Cardiovasc Diagn 1996 Aug;38(4):441.

Arteriovenous communications of the retina. Meinhold JR. **J Am Optom Assoc** 1996 May;67(5):279-82

[Multiple dural arteriovenous fistulas following extensive sinus thrombosis: a case report] Sugiura Y, et al. **No Shinkei Geka** 1996 Apr;24(4):379-83 (Eng. Abstr.) **(Jpn)**

[Uterine arteriovenous malformations, Review of the literature] Noguera-Sánchez MF, et al. **Ginecol Obstet Mex** 1997 Jun;65:258-61 (25 ref.) (Eng. Abstr.) **(Spa)**

GENETICS

The phakomatoses: recent advances in genetics. MacDonald IM, et al. **Can J Ophthalmol** 1997 Feb;32(1):4-11 (81 ref.)

Hepatic vascular malformations in hereditary hemorrhagic telangiectasia: Doppler sonographic screening in a large family. Buscarini E, et al. **J Hepatol** 1997 Jan;26(1):111-8

PATHOLOGY

Spontaneous digital arteriovenous malformation in a 28-year-old pregnant female [letter] Mcculley S, et al. **Br J Dermatol** 1997 Mar;136(3):472-3

Congenital retinal macrovessel with bilateral pigment epithelial changes. Sharma S, et al. **Can J Ophthalmol** 1996 Dec;31(7):386-7

Hemoptysis, hepatopulmonary syndrome, and respiratory failure: clinical conference on management dilemmas [clinical conference] Schnader J, et al. **Chest** 1997 Jun; 111(6):1724-32

Stereotactic radiosurgery of arteriovenous malformations: pathologic changes in resected tissue. Chang SD, et al. **Clin Neuropathol** 1997 Mar-Apr;16(2):111-6

Misalignment of lung vessels and alveolar capillary dysplasia. Oldenburg J, et al. **Histopathology** 1995 Aug;27(2):192-4

Vein of Galen aneurysmal malformation in a neonate treated by endovascular surgery--case report. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):893-900

Unusual intramedullary vascular lesion: report of two cases. Schwartz TH, et al. **Neurosurgery** 1997 Jun;40(6):1295-301

Arteriovenous malformation of the cervical spinal cord with unusual drainage into the cranial cavity. Matsko DE, et al. **Pathol Res Pract** 1996 Sep;192(9):942-7; discussion 948

Diffuse pulmonary arteriovenous malformations (angiodysplasia) with unusual histologic features: case report and review of the literature. Shapiro JL, et al. **Pediatr Pulmonol** 1996 Apr;21(4):255-61 (26 ref.)

[Histopathological examinations of dural arteriovenous malformations of posterior fossa] Momoji J, et al. **No Shinkei Geka** 1997 Feb;25(2):137-42 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Choroid plexus arteriovenous malformations. A report of four pathologically proven cases and review of the literature. Santoreneos S, et al. **Br J Neurosurg** 1996 Aug; 10(4):385-90

Arteriovenous malformations of the posterior fossa: a report on 28 cases and review of the literature. Symon L, et al. **Br J Neurosurg** 1995;9(6):721-32 (48 ref.)

Spinal anaesthesia for Caesarean section in a patient with a cervical arteriovenous malformation. Ong BY, et al. **Can J Anaesth** 1996 Oct;43(10):1052-8

Coronary neovascularity revisited [letter; comment] Grollman JH Jr. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):441. Comment on: Cathet Cardiovasc Diagn 1996 Feb;37(2):166-7.

A ruptured spinal AVM in a patient with migraine [letter; comment] Ravishankar K. **Cephalalgia** 1996 Jun;16(4):280 . Comment on: Cephalalgia 1995 Jun;15(3):237-40.

Spinal arteriovenous malformations: clinical and neurophysiological findings. Linden D, et al. **J Neurol** 1996 Jan;243(1):9-12

RADIOGRAPHY

Neuroradiology case of the day. Multiple cerebral abscesses associated with isolated pulmonary arteriovenous malformation. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):296, 299-302

Congenital or idiopathic hepatic vascular malformations: CT findings. Lu DS, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1155-7

Using biphasic CT to reveal gastrointestinal arteriovenous malformations. Mindelzun RE, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):437-8

Congenital thoracic lesions that mimic neoplastic disease on chest radiographs of adults. Raymond GS, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):763-9

Arteriovenous malformation of the gallbladder. Tajima H, et al. **Eur Radiol** 1997;7(3):333-4

Absence of the inferior vena cava in a patient with omphalocele: two-dimensional echocardiographic and cineangiographic findings. Mori K, et al. **Heart Vessels** 1996;11(2):104-9

Intrapulmonary foreign body simulating pulmonary AVM: CT findings. Davis SW, et al. **J Comput Assist Tomogr** 1997 Sep-Oct;21(5):769-70

Three-dimensional reconstruction of arteriovenous malformations from multiple stereotactic angiograms. Yeung D, et al. **Med Phys** 1996 Oct;23(10):1797-804

Radiation dermatitis after spinal arteriovenous malformation embolization: case report. Carstens GJ, et al. **Neuroradiology** 1996 May;38 Suppl 1:S160-4

Multiple arteriovenous malformations of the spinal cord in an adolescent: case report. Meisel HJ, et al. **Neuroradiology** 1996 Jul;38(5):490-3

Intramedullary angiographically occult vascular malformations of the spinal cord. Furuya K, et al. **Neurosurgery** 1996 Dec;39(6):1123-30; discussion 1131-2

High-flow vascular malformations: literature review and case report. Kula K, et al. **Pediatr Dent** 1996 Jul-Aug; 18(4):322-7 (30 ref.)

Postmyelographic computerized tomographic scan in the differential diagnosis of radiculomeningeal arteriovenous malformation: technical note. Kohno M, et al. **Surg Neurol** 1997 Jan;47(1):68-71

[Spiral CT and color-coded three-dimensional surface reconstruction in the diagnosis of mandibulofacial arteriovenous malformation] Liebig T, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):595-8 **(Ger)**

RADIOTHERAPY

A large vascular malformation of the tongue treated with radiation therapy. Rudman RA. et al. **J Oral Maxillofac Surg** 1997 May;55(5):509-14

SURGERY

Treatment of high-flow vascular malformations in the head and neck with arterial ligation followed by sclerotherapy. Chen MT, et al. **Ann Plast Surg** 1996 Feb;36(2):147-53

Laser treatment of facial venous vascular malformations. Derby LD, et al. **Ann Plast Surg** 1997 Apr;38(4):371-8

Pulmonary AV malformations after superior cavopulmonary connection: resolution after inclusion of hepatic veins in the pulmonary circulation [see comments] Shah MJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):960-3. Comment in: Ann Thorac Surg 1997 Apr;63(4):930-2.

Stereotactic multiple arc radiotherapy. III--Influence of treatment of arteriovenous malformations on associated epilepsy. Falkson CB, et al. **Br J Neurosurg** 1997 Feb; 11(1):12-5

Stereotactic radiosurgery of arteriovenous malformations: pathologic changes in resected tissue. Chang SD, et al. **Clin Neuropathol** 1997 Mar-Apr;16(2):111-6

Pharmacologic therapy of arteriovenous malformations. Van Cutsem E, et al. **Gastrointest Endosc Clin N Am** 1996 Oct; 6(4):819-32 (62 ref.)

Management of a rare case of arteriovenous malformation of the head of the pancreas. Shahrudin MD, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):284-7

Treatment of intraosseous high flow arteriovenous malformation of the mandible by temporary segmental ostectomy for extracorporal tumour resection: a case report. Schneider C, et al. **J Craniomaxillofac Surg** 1996 Oct;24(5):271-5

Microsurgical approach for a venous malformation of the thumb. Adani R, et al. **J Hand Surg [Br]** 1997 Feb; 22(1):30-1

Sinus skeletonization [letter; comment] D'Aliberti G, et al. **J Neurosurg** 1996 Oct;85(4):738-40. Comment on: J Neurosurg 1996 Mar;84(3):514-7.

Treatment of central arteriovenous malformation of the mandible via resection and immediate replantation of the segment: a case report. Behnia H, et al. **J Oral Maxillofac Surg** 1997 Jan;55(1):79-84

Three-dimensional reconstruction of arteriovenous malformations from multiple stereotactic angiograms. Yeung D, et al. **Med Phys** 1996 Oct;23(10):1797-804

Effect of Gamma Knife surgery on the risk of rupture prior to AVM obliteration. Karlsson B, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):21-7

Treatment of benign cutaneous vascular proliferations with the 585-nm flashlamp-pulsed tunable dye laser. Krunic A, et al. **N C Med J** 1996 May-Jun;57(3):180-2

Vein of Galen aneurysmal malformation in a neonate treated by endovascular surgery--case report. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):893-900

Classification and therapeutic modalities of spinal vascular malformations in 80 patients. Bao YH, et al. **Neurosurgery** 1997 Jan;40(1):75-81

Successful surgical treatment of intraorbital arteriovenous malformations: case report. Hieu PD, et al. **Neurosurgery** 1997 Mar;40(3):626-31 (14 ref.)

Brain tissue gases and pH during arteriovenous malformation resection. Hoffman WE, et al. **Neurosurgery** 1997 Feb; 40(2):294-300; discussion 300-1

Treatment for intracranial dural arteriovenous malformations: a meta-analysis from the English language literature. Lucas CP, et al. **Neurosurgery** 1997 Jun;40(6):1119-30; discussion 1130-2

The potential role of myofibroblasts in the obliteration of arteriovenous malformations after radiosurgery. Szeifert GT, et al. **Neurosurgery** 1997 Jan;40(1):61-5; discussion 65-6

Congenital intrahepatic portocaval shunt associated with trimethylaminuria. Fernández MS, et al.

Pediatr Surg Int 1997 Feb;12(2-3):196-7
Do we need conventional angiography? The role of magnetic resonance imaging in verifying obliteration of arteriovenous malformations after Gamma Knife surgery. Guo WY, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:71-84
Intraoperative endoscopy as an adjunct to surgical ligation of multiple arteriovenous malformations. Balserak JC, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):68-70
A new surgical technique for the treatment of life-threatening congenital arteriovenous malformation--intraluminal graft implantation. Ohta T, et al. **Vasa** 1997 May;26(2):128-31
Pulmonary arteriovenous malformations: aspects of surgical therapy. Storck M, et al. **Vasa** 1996;25(1):54-9
[Arteriovenous dysplasia of the hand. A case report and attempts at conservative therapy] Bahm J, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):39-42 (Eng. Abstr.) **(Ger)**
[Diagnosis and therapy of vascular malformations in the head-neck area and their differentiation form hemangiomas] Stocker HI, et al. **Handchir Mikrochir Plast Chir** 1996 Nov;28(6):292-301 (Eng. Abstr.) **(Ger)**
[Surgical approaches to spinal arteriovenous malformations: anatomy and operative methods] Miyamoto S, et al. **No Shinkei Geka** 1997 Feb;25(2):109-15 (30 ref.) **(Jpn)**
[Transient prosopagnosia and lasting topographical disorientation after the total removal of a right occipital arteriovenous malformation] Suzuki K, et al. **Rinsho Shinkeigaku** 1996 Sep;36(9):1114-7 (Eng. Abstr.) **(Jpn)**

THERAPY

Trisacryl gelatin microspheres for therapeutic embolization, II: preliminary clinical evaluation in tumors and arteriovenous malformations. Beaujeux R, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):541-8
Endovascular treatment of arteriovenous malformations with selective intranidal occlusion by detachable platinum electrodes: technical feasibility in a swine model. Massoud TF, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1459-66
Symptomatic hemangiomas and venous malformations in infants, children, and young adults: treatment with percutaneous injection of sodium tetradecyl sulfate. O'Donovan JC, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):723-9
Endoscopic hemoclipping for duodenal Dieulafoy's lesion [letter; comment] Hokama A, et al. **Am J Gastroenterol** 1996 Nov;91(11):2450. Comment on: Am J Gastroenterol 1996 Apr;91(4):818-9.
Pulmonary arteriovenous malformations and hereditary hemorrhagic telangiectasia: embolotherapy using balloons and coils [letter; comment] White RI Jr. **Arch Intern Med** 1996 Dec 9-23;156(22):2627-8. Comment on: Arch Intern Med 1996 Apr 8;156(7):714-9.
Transcatheter embolization of a congenital intrahepatic arterioportal venous malformation: a case report. Sing TM, et al. **Australas Radiol** 1997 Aug;41(3):292-6
Treatment of high-flow vascular malformations by venous embolization aided by flow occlusion techniques. Jackson JE, et al. **Cardiovasc Intervent Radiol** 1996 Sep-Oct; 19(5):323-8
Selective transcatheter embolization of a uterine arteriovenous malformation with preservation of the reproductive capacity. Gaens J, et al. **J Belge Radiol** 1996 Nov;79(5):210-1
Nontoxic embolic liquids for treatment of arteriovenous malformations. Kazekawa K, et al. **J Biomed Mater Res** 1997 Summer;38(2):79-86
Conservatively treated pelvic arteriovenous malformation: noninvasive sonographic monitoring during subsequent pregnancy. Zanetta G, et al. **J Clin Ultrasound** 1997 Sep; 25(7):401-4 (15 ref.)
Uterine arteriovenous malformation in a patient with recurrent pregnancy loss and a bicornuate uterus. A case report. Arredondo-Soberon F, et al. **J Reprod Med** 1997 Apr;42(4):239-43
Pulmonary arteriovenous malformations: diagnosis and transcatheter embolotherapy. White RI Jr, et al. **J Vasc Interv Radiol** 1996 Nov-Dec;7(6):787-804 (56 ref.)
Radiation dermatitis after spinal arteriovenous malformation embolization: case report. Carstens GJ, et al. **Neuroradiology** 1996 May;38 Suppl 1:S160-4
Bilateral congenital anomalies of the extracranial vertebral artery: management with balloon therapy. Gaskill SJ, et al. **Pediatr Neurosurg** 1996 Sep;25(3):147-50
Solitary ileocolic arteriovenous malformation: spongostan and silk therapeutic embolisation. Alcalde M, et al. **Postgrad Med J** 1997 May;73(859):295-6
Percutaneous sclerotherapy of venous malformations of the head and neck using sodium tetradecyl sulphate (sotradecol). Siniluoto TM, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):145-50
Successful management of a giant spinal arteriovenous malformation with multiple communications between primitive arterial and venous structures by embolization: report of a case. Kuga T, et al. **Surg Today** 1996;26(9):756-9

ULTRASONOGRAPHY

Transrectal color Doppler ultrasonography for postejaculation hematuria. Hong SJ, et al. **Abdom Imaging** 1996 Nov-Dec;21(6):551-3
Absence of the inferior vena cava in a patient with omphalocele: two-dimensional echocardiographic and cineangiographic findings. Mori K, et al. **Heart Vessels** 1996;11(2):104-9
Conservatively treated pelvic arteriovenous malformation: noninvasive sonographic monitoring during subsequent pregnancy. Zanetta G, et al. **J Clin Ultrasound** 1997 Sep; 25(7):401-4 (15 ref.)
The noninvasive diagnosis and management of a uterine arteriovenous malformation. Flynn MK, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):650-2
Diagnosis of uterine arteriovenous malformation by color and pulsed Doppler ultrasonography [letter] Sugiyama T, et al. **Ultrasound Obstet Gynecol** 1996 Nov;8(5):359-60 (12 ref.)

VETERINARY

Clinical vignette. Renal arteriovenous malformation in a quarter horse foal. Schott HC 2nd, et al. **J Vet Intern Med** 1996 Jul-Aug;10(4):204-6

ARTERIOVENOUS MALFORMATIONS, CEREBRAL see **CEREBRAL ARTERIOVENOUS MALFORMATIONS**

ARTERIOVENOUS SHUNT, SURGICAL

Pulse oxymetry evaluation of oxygen saturation in the upper extremity with an arteriovenous fistula before and during hemodialysis. Lin G, et al. **Am J Kidney Dis** 1997 Feb; 29(2):230-2
Hemodialysis access blood flow rates can be measured by a differential conductivity technique and are predictive of access clotting. Lindsay RM, et al. **Am J Kidney Dis** 1997 Oct;30(4):475-82
Long-term vascular access for hemodialysis using silicon dual-lumen catheters with guidewire replacement of catheters for technique salvage. McLaughlin K, et al. **Am J Kidney Dis** 1997 Apr;29(4):553-9
Results of arteriovenous fistula revision in the forearm. Yasuhara H, et al. **Am J Surg** 1997 Jul;174(1):83-6
Arteriovenous fistula combined with basal external penile compression: a new cure for male impotence. Godziachvili V, et al. **Am Surg** 1997 Aug;63(8):704-8; discussion 709
Superior patency of perforating antecubital vein arteriovenous fistulae for hemodialysis. Sparks SR, et al. **Ann Vasc Surg** 1997 Mar;11(2):165-7
Venoarterial shunting for the treatment of right sided circulatory failure after left ventricular assist device placement. Goldstein DJ, et al. **ASAIO J** 1997 May-Jun; 43(3):171-6
Arterialization of the venous system in a rat lower limb model. Ozek C, et al. **Br J Plast Surg** 1997 Sep;50(6):402-7
Dialysis grafts arterial plug: retrieval using the tulip sheath device in vitro. Sharafuddin MJ, et al. **Cardiovasc Intervent Radiol** 1997 Mar-Apr;20(2):154-8
A simple trick to facilitate bleeding control after percutaneous hemodialysis fistula and graft interventions. Vorwerk D, et al. **Cardiovasc Intervent Radiol** 1997 Mar-Apr;20(2):159-60
Stent placement on fresh venous thrombosis. Vorwerk D, et al. **Cardiovasc Intervent Radiol** 1997 Sep-Oct; 20(5):359-63
Pantaloon vein graft technique in tibial revascularization with arteriovenous fistula for limb salvage. Sogaro F, et al. **Cardiovasc Surg** 1996 Jun;4(3):377-80
Enhanced cellular proliferation in intact stenotic lesions derived from human arteriovenous fistulas and peripheral bypass grafts. Does it correlate with flow parameters? Hofstra L, et al. **Circulation** 1996 Sep 15;94(6):1283-90
Inhibition of acute stent thrombosis under high-shear flow conditions by a nitric oxide donor, DMHD/NO. An ex vivo porcine arteriovenous shunt study. Kaul S, et al. **Circulation** 1996 Nov 1;94(9):2228-34
Effects of GP IIb/IIIa receptor monoclonal antibody (7E3), heparin, and aspirin in an ex vivo canine arteriovenous shunt model of stent thrombosis. Makkar RR, et al. **Circulation** 1997 Feb 18;95(4):1015-21
Increasing numbers of AV fistulas for hemodialysis access. Sands J, et al. **Clin Nephrol** 1997 Aug;48(2):114-7
Long-term function of vascular access for hemodialysis. Enzler MA, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):511-5
Significant reduction in minute ventilation and peak inspiratory pressures with arteriovenous CO2 removal during severe respiratory failure. Tao W, et al. **Crit Care Med** 1997 Apr;25(4):689-95
The value of pre-operative ultrasound mapping of the greater saphenous vein prior to 'closed' in situ bypass operations. van Dijk LC, et al. **Eur J Radiol** 1996 Nov;23(3):235-7
Vascular rupture complicating transluminal angioplasty applied on a failed dialysis vascular access in a patient under chronic steroid therapy. Melki PS, et al. **Eur Radiol** 1997; 7(3):313-5
Vascular access in pediatric hemodialysis. Kurien R, et al. **Indian Pediatr** 1996 Sep;33(9):767-70
Comparison of survival of an expanded polytetrafluoroethylene graft designed for early cannulation to standard wall polytetrafluoroethylene grafts. Coyne DW, et al. **J Am Coll Surg** 1996 Oct;183(4):401-5
A prospective comparison of two expanded polytetrafluoroethylene grafts for linear forearm hemodialysis access: does the manufacturer matter? Kaufman JL, et al. **J Am Coll Surg** 1997 Jul;185(1):74-9
Graft surveillance and angioplasty prolongs dialysis graft patency. Roberts AB, et al. **J Am Coll Surg** 1996 Nov; 183(5):486-92
Abnormal glomerular response to atrial natriuretic peptide in rats with aortocaval fistulas. Norling LL, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1038-44
Venous obstruction as the cause of retinal/choroidal dysfunction associated with arteriovenous shunts in the cavernous sinus. Kupersmith MJ, et al. **J Neuroophthalmol** 1996 Mar;16(1):1-6
Microsurgical composite tissue transplantation at difficult recipient sites facilitated by preliminary installation of vein grafts as arteriovenous loops. Ritter EF, et al. **J Reconstr Microsurg** 1996 May;12(4):231-40
Analysis of the hemodynamics of a bypass with adjunctive arterio-venous fistula using a direct electrical circuit model. Spivak H, et al. **J Surg Res** 1996 Jul 1;63(2):381-6
Hemodialysis graft declotting: description of the "lyse and wait" technique. Cynamon J, et al. **J Vasc Interv Radiol** 1997 Sep-Oct;8(5):825-9
Percutaneous intervention for permanent hemodialysis access: a review. Gray RJ. **J Vasc Interv Radiol** 1997 May-Jun;8(3):313-27 (105 ref.)
Hemodynamic screening and early percutaneous intervention reduce hemodialysis access thrombosis and increase graft longevity. Sullivan KL, et al. **J Vasc Interv Radiol** 1997 Mar-Apr;8(2):163-70 (45 ref.)
Manual thromboaspiration and dilation of thrombosed dialysis access: mid-term results of a simple concept. Turmel-Rodrigues L, et al. **J Vasc Interv Radiol** 1997 Sep-Oct;8(5):813-24
Distal revascularization-interval ligation for limb salvage and maintenance of dialysis access in ischemic steal syndrome. Berman SS, et al. **J Vasc Surg** 1997 Sep;26(3):393-402; discussion 402-4
Durability of early prosthetic dialysis graft cannulation: results of a prospective, nonrandomized clinical trial. Hakaim AG, et al. **J Vasc Surg** 1997 Jun;25(6):1002-5; discussion 1005-6
Effect of a femoral arteriovenous fistula on lower extremity venous hemodynamics after femorocaval reconstruction. Menawat SS, et al. **J Vasc Surg** 1996 Nov;24(5):793-9
Arteriovenous fistulas aggravate the hemodynamic effect of vein bypass stenoses: an in vitro study. Nielsen TG, et al. **J Vasc Surg** 1996 Dec;24(6):1043-9
Continuous electroencephalographic monitoring and selective shunting reduces neurologic morbidity rates in carotid endarterectomy. Plestis KA, et al. **J Vasc Surg** 1997 Apr;25(4):620-8
Grafts vs fistulas for hemodialysis patients: equal access for all? [editorial; comment] Chertow GM. **JAMA** 1996 Oct 23-30;276(16):1343-4. Comment on: JAMA 1996 Oct 23-30;276(16):1303-8.
Vascular access in patients receiving hemodialysis [letter] Qureshi N. **JAMA** 1997 Feb 12;277(6):455; discussion 456-7
Vascular access in patients receiving hemodialysis [letter] Tesi RJ, et al. **JAMA** 1997 Feb 12;277(6):455-6; discussion 456-7
Vascular access in patients receiving hemodialysis [letter] Tokars JI, et al. **JAMA** 1997 Feb 12;277(6):455; discussion 456-7
Permanent pacemaker wires causing subclavian vein stenosis in presence of AV fistula--is it ever wrong to try angioplasty and stenting? Konner K, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1735-8
Hydrodynamic thrombectomy of haemodialysis grafts and fistulae: results of 51 procedures. Vorwerk D, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1058-64
Effect of haemodynamic variables on surgically created arteriovenous fistula flow. Yerdel MA, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1684-8
Effects of isoproterenol infusion on the myocardial uptake of fatty acids and other substrates in lambs with an aortopulmonary shunt. Gratama JW, et al. **Pediatr Res** 1996 Jan;39(1):98-104
The salvage of a degloved hand skin flap by arteriovenous shunting [letter; comment] Balakrishnan C. **Plast Reconstr Surg** 1997 Jun;99(7):2105. Comment on: Plast Reconstr Surg 1996 Jul;98(1):146-50.
Arteriovenous shunts for hemodialysis: a useful clinical progression from the microsurgical laboratory [letter] Lim LH, et al. **Plast Reconstr Surg** 1997 Sep;100(3):809-10
Influence of indobufen on occlusion of arteriovenous fistulas and some platelet activity in intermittent peritoneal dialysis patients. Dmoszyńska A, et al. **Pol J Pharmacol** 1996 May-Jun;48(3):327-9
Medial and lateral antebrachial cutaneous nerve blocks: an easily learned regional anesthetic for forearm arteriovenous fistula surgery. Viscomi CM, et al. **Reg Anesth** 1996 Jan-Feb;21(1):2-5
Nerve conduction abnormalities in the arms of patients with arteriovenous fistula. Klein C, et al. **Ren Fail** 1996 Jan; 18(1):85-9
[Results of sub-inguinal revascularization in the treatment of diabetic ischemic foot] Chambon JP, et al. **Chirurgie**

1996;121(6):401–5 (Eng. Abstr.) **(Fre)**

[Superinfection with multi-resistant Staphylococcus aureus of the hand caused by shunt vein occlusion in a dialysis patient] Hoch J, et al. **Zentralbl Chir** 1996;121 Suppl:79–81 **(Ger)**

[Calcified EPTFE vascular prosthesis in the Blalock–Taussig shunt after 4 years of implantation: a case report] Takanashi Y, et al. **Kyobu Geka** 1997 Jan;50(1):71–3 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Bacterial endocarditis in hemodialysis patients. Robinson DL, et al. **Am J Kidney Dis** 1997 Oct;30(4):521–4

Preoperative vancomycin prophylaxis decreases incidence of postoperative hemodialysis vascular access infections [see comments] Zibari GB, et al. **Am J Kidney Dis** 1997 Sep; 30(3):343–8. Comment in: Am J Kidney Dis 1997 Sep;30(3):448.

Balloon versus patch angioplasty as an adjuvant treatment to surgical thrombectomy of hemodialysis grafts. Bitar G, et al. **Am J Surg** 1997 Aug;174(2):140–2

Catheter–related bacteremia and outcome of attempted catheter salvage in patients undergoing hemodialysis. Marr KA, et al. **Ann Intern Med** 1997 Aug 15;127(4):275–80

Acute perigraft seroma simulating anastomotic bleeding of a PTFE graft applied as an arteriovenous shunt for hemodialysis. Eid A, et al. **Ann Vasc Surg** 1996 May; 10(3):290–1

In vitro studies on anastomotic intimal hyperplasia. Ojha M. **ASAIO J** 1997 May–Jun;43(3):242 (6 ref.)

Immediate postoperative complications following hemodialysis access procedures. Wada H, et al. **Int Surg** 1996 Jan–Mar;81(1):99–101

Risk factors for vascular disease and arteriovenous fistula dysfunction in hemodialysis patients. De Marchi S, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1169–77

Long–term effects of erythropoietin therapy on fistula stenosis and plasma concentrations of PDGF and MCP–1 in hemodialysis patients. De Marchi S, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1147–56

Pseudo–Kaposi's sarcoma associated with acquired arteriovenous fistula. Kim TH, et al. **J Dermatol** 1997 Jan; 24(1):28–33

Recombinant tissue plasminogen activator to declot dialysis fistulas. Boobes Y, et al. **J Nephrol** 1997 Mar–Apr; 10(2):107–10

Screening for dialysis access graft malfunction: comparison of physical examination with US. Trerotola SO, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):15–20

Prospective randomized comparison of surgical versus endovascular management of thrombosed dialysis access grafts. Marston WA, et al. **J Vasc Surg** 1997 Sep; 26(3):373–80; discussion 380–1

Percutaneous interventions to support failing hemodialysis fistulas and grafts. Vorwerk D. **Kidney Blood Press Res** 1997;20(3):145–7

Cutaneous scleroderma following bilateral arteriovenous fistula formation. Quan VA, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1719–20

Vascular access infection associated with methicillin–resistant Staphylococcus aureus nasal carriage in a hemodialysis patient [letter] Takeda K, et al. **Nephron** 1997;76(3):371–2

Shots and shunts [letter]. Davidson A, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):132–3

Occluded hemodialysis shunts: Dutch multicenter experience with the hydrolyser catheter. Overbosch EH, et al. **Radiology** 1996 Nov;201(2):485–8

An analysis of the patency of vascular access grafts for hemodialysis using the Medicare Part B claims database. Kennedy MT, et al. **Semin Vasc Surg** 1996 Sep;9(3):262–5

[Stenosis and thrombosis of the central venous tract as a cause of manifestations of venous hypertension after establishment of an arteriovenous anastomosis for hemodialysis] Bachleda P, et al. **Rozhl Chir** 1996 Oct; 75(10):492–5 (Eng. Abstr.) **(Cze)**

["Banding" of the venous side of an arteriovenous fistula for hemodialysis complicated with steal syndrome: a clinical case] Staniscia G, et al. **Ann Ital Chir** 1997 Mar–Apr; 68(2):241–3 (Eng. Abstr.) **(Ita)**

[Hand ischemia due to "steal syndrome" in vascular access for hemodialysis] Porcellini M, et al. **G Chir** 1997 Jan–Feb; 18(1–2):27–30 (Eng. Abstr.) **(Ita)**

[Hemostatic system parameters in patients with chronic renal insufficiency and arteriovenous fistula thrombosis] Dimitrijević Z, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:126–7 (Eng. Abstr.) **(Scc)**

ECONOMICS

The economic cost of ESRD, vascular access procedures, and Medicare spending for alternative modalities of treatment. USRDS. United States Renal Data System. **Am J Kidney Dis** 1997 Aug;30(2 Suppl 1):S160–77

Care pathway reduces hospitalizations and cost for hemodialysis vascular access surgery. Becker BN, et al. **Am J Kidney Dis** 1997 Oct;30(4):525–31

INSTRUMENTATION

A collagen coated fabric vascular prosthesis as a punctureable A–V shunt. Noishiki Y, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M687–93

Extended intravascular shunting in an experimental model of vascular injury. Aldridge SD, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):183–6

Cragg covered stents in hemodialysis access: initial and midterm results. Sapoval MR, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):335–42

Reversal of blood flow direction for the salvage of forearm straight and looped ePTFE–shunts. Mickley V, et al. **Vasa** 1996;25(3):257–60

METHODS

A new method of creating an arteriovenous graft access [letter; comment] Leow CK, et al. **Am J Surg** 1997 Feb; 173(2):149–50. Comment on: Am J Surg 1996 Mar;171(3):369–70.

Staged arteriovenous fistula and free flap transfer [letter] Atiyeh BS, et al. **Ann Plast Surg** 1997 Feb;38(2):193–4

Bifurcated anastomosis. Rajaii–Khorasani A. **Ann Thorac Surg** 1997 Apr;63(4):1189–90

Strategies to increase the use of autogenous arteriovenous fistula in end–stage renal disease. Miller A, et al. **Ann Vasc Surg** 1997 Jul;11(4):397–405

Postoperative regional analgesia following basilic vein transposition for vascular access. Butterworth PC, et al. **Br J Surg** 1997 Apr;84(4):561

An unusual approach for difficult dialysis access. Jones JW Jr. **J Am Coll Surg** 1997 Sep;185(3):287–9

Salvage of a "free flap" phalloplasty by distal arteriovenous fistula: case report. Hage JJ, et al. **J Reconstr Microsurg** 1996 Jul;12(5):279–82

Single–anastomosis femoral arteriovenous shunt as recipient vessels for free–flap reconstruction of a massive lumbosacral wound. Rechnic M, et al. **Plast Reconstr Surg** 1997 Jan;99(1):242–4

Renal transplantation without sutures using the vascular clipping system for renal artery and vein anastomosis—a new technique. Mital D, et al. **Transplantation** 1996 Oct 27;62(8):1171–3

[Transposition of the basilic vein in the arm for vascular access in hemodialysis] Lindner J. **Rozhl Chir** 1997 Mar; 76(3):126–8 (Eng. Abstr.) **(Cze)**

["Banding" of the venous side of an arteriovenous fistula for hemodialysis complicated with steal syndrome: a clinical case] Staniscia G, et al. **Ann Ital Chir** 1997 Mar–Apr; 68(2):241–3 (Eng. Abstr.) **(Ita)**

[Surgical treatment of patients with chronic critical ischemia of legs, caused by atherosclerosis] Belov IV, et al. **Khirurgiia (Mosk)** 1997;(2):45–51 (Eng. Abstr.) **(Rus)**

[The vascular surgical aspects of treating chronic kidney failure] Henyk SM, et al. **Klin Khir** 1996;(7):27–8 **(Ukr)**

STANDARDS

Effective cross–circulation technique of venoarterial bypass for differential hypoxia condition. Kitamura M, et al. **Artif Organs** 1997 Jul;21(7):786–8

Clinical experience with an anatomic snuff box arteriovenous fistula in hemodialysis patients. Horimi H, et al. **ASAIO J** 1996 May–Jun;42(3):177–80

STATISTICS & NUMERICAL DATA

Vascular access survival among incident hemodialysis patients in the United States. Woods JD, et al. **Am J Kidney Dis** 1997 Jul;30(1):50–7

Cumulative risk of bypass, amputation or death following percutaneous transluminal angioplasty. Gutteridge W, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):134–9

UTILIZATION

Predictors of type of vascular access in hemodialysis patients [see comments] Hirth RA, et al. **JAMA** 1996 Oct 23–30; 276(16):1303–8. Comment in: JAMA 1996 Oct 23–30;276(16):1343–4.

ARTERITIS

[Pulmonary arteritis] Ito Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):606–10 (15 ref.) **(Jpn)**

[Coronary artery arteritis (vasculitis)] Taniguchi I, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):593–6 (13 ref.) **(Jpn)**

BLOOD

[The clinical importance of determining protein C and protein S in patients with nonspecific aortoarteritis] Baranov AA, et al. **Ter Arkh** 1996;68(4):50–2 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Arteritis following intra–arterial chemotherapy for liver tumors. Belli L, et al. **Eur Radiol** 1997;7(3):323–6

Exacerbation of microscopic polyarteritis with azathioprine [letter] Bofinger AM, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1538–9

Arteritis and increased intracellular calcium as a possible mechanism for tacrolimus–related cardiac toxicity in a pediatric transplant recipient. Atkison PR, et al. **Transplantation** 1997 Sep 15;64(5):773–5

CLASSIFICATION

Classification of periarteritis nodosa and microscopic periarteritis: comment on the article by Watts et al [letter; comment] Mercado U. **Arthritis Rheum** 1997 Apr; 40(4):788–9. Comment on: Arthritis Rheum 1996 Jul;39(7):1208–12.

[Renal arteritis] Hiromura K. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):323–5 (8 ref.) **(Jpn)**

COMPLICATIONS

Complete recovery of right intraventricular thrombus and pulmonary arteritis in Behçet's disease. Huong DL, et al. **Br J Rheumatol** 1997 Jan;36(1):130–2

Peri–arteritis causing ureteric obstruction. Sharma SD, et al. **Br J Urol** 1996 Sep;78(3):475–7

Anterior ischemic optic neuropathy. Hayreh SS. **Clin Neurosci** 1997;4(5):251–63 (48 ref.)

Primary amyloidosis complicated by systemic necrotizing arteritis [letter] Uyama H, et al. **Histopathology** 1997 Aug; 31(2):203–4

Recurrent aortic valve prosthesis dehiscence secondary to aortoarteritis: three case reports and literature review. Chau EM, et al. **Int J Cardiol** 1996 Oct 11;56(2):113–8 (12 ref.)

Delayed–onset hemidystonia secondary to herpes zoster ophthalmicus–related intracerebral arteritis in an adolescent [letter] Burbaud P, et al. **J Neurol** 1997 Jul;244(7):470–2

Association of coronary plaque rupture and atherosclerotic inflammation. Boyle JJ. **J Pathol** 1997 Jan;181(1):93–9

[Ureteral obstruction secondary to inflammatory iliac aneurysm] Pereira Arias JG, et al. **Actas Urol Esp** 1997 Mar;21(3):296–300 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Classical polyarteritis nodosa and microscopic polyarteritis with medium vessel involvement—a comparison of the clinical and laboratory features. Kirkland GS, et al. **Clin Nephrol** 1997 Mar;47(3):176–80

Digital pulse volume recording: an essential test for the assessment of arteritis in diabetic patients. Kreidy R, et al. **J Med Liban** 1997;45(2):73–7

Isolated pulmonary microangiitis mimicking pneumonia in a patient infected with human immunodeficiency virus. Gruber BL, et al. **J Rheumatol** 1997 Apr;24(4):759–62

Intraoperative recognition of retinal vasculitis in a patient with early lens–induced uveitis. Besen G, et al. **Ophthalmic Surg Lasers** 1997 Jan;28(1):67–8

Subretinal fibrovascular proliferation in retinal arteritis with multiple aneurysmal dilatations: a case report. Salvador F, et al. **Ophthalmologica** 1996;210(2):129–31

Fever, cardiac failure and arteritis in a child with rheumatic carditis. Burnell RH, et al. **Pediatr Infect Dis J** 1997 Apr; 16(4):408, 422–3

DRUG THERAPY

Immunosuppressant HR–325 attenuates progression of malignant arteritis in the kidney of Dahl salt–sensitive rats. Uehara Y, et al. **Hypertens Res** 1997 Jun;20(2):91–7

ETIOLOGY

Inflammatory response to coronary artery stenting [letter] Karim MA. **Circulation** 1997 Sep 16;96(6):2091–3

Role of macrophages in the development of arteritis in MRL strains of mice with a deficit in Fas–mediated apoptosis. Taniguchi Y, et al. **Clin Exp Immunol** 1996 Oct; 106(1):26–34

Septic arteritis causing iliac artery rupture and aneurysmal transformation of the distal aorta after iliac artery stent placement. Hoffman AI, et al. **J Vasc Interv Radiol** 1997 Mar–Apr;8(2):215–9

Proinflammatory activity on rat carotid endothelium of albumins obtained by different procedures. Zúñiga A, et al. **Thromb Res** 1997 May 1;86(3):243–54

[A case of necrotizing crescentic glomerulonephritis with arteritis due to secondary amyloidosis following rheumatoid arthritis] Watanabe M, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):421–5 (Eng. Abstr.) **(Jpn)**

[The biochemical and clinical aspects of the participation of granulocytes and their proteinases in a vascular wall lesion] Ogloblina OG, et al. **Ter Arkh** 1996;68(5):78–80 (Eng. Abstr.) **(Rus)**

GENETICS

Arteritis in a novel congenic strain of mice derived from MRL/Lpr lupus mice: genetic dissociation from glomerulonephritis and limited autoantibody production. Nose M, et al. **Am J Pathol** 1996 Nov;149(5):1763–9

IMMUNOLOGY

Role of macrophages in the development of arteritis in MRL strains of mice with a deficit in Fas–mediated apoptosis. Taniguchi Y, et al. **Clin Exp Immunol** 1996 Oct; 106(1):26–34

Inflammatory and immunological nature of atherosclerosis. Watanabe T, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S51–60 (55 ref.)

[Vascular immune reactions in arteritis and atherosclerosis. Receptors for endothelial adhesion] Hansson G. **Lakartidningen** 1997 Mar 5;94(10):852–4 (20 ref.) **(Swe)**

ARTERITIS

METABOLISM

Regulation of human endothelial nitric oxide synthase by hypoxia and inflammation in human pulmonary arteries--implications for the therapy of pulmonary hypertension in COPD patients. Ziesche R, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:97-8

IL-1 beta production by human polymorphonuclear leucocytes stimulated by anti-neutrophil cytoplasmic autoantibodies: relevance to systemic vasculitis. Brooks CJ, et al. **Clin Exp Immunol** 1996 Nov;106(2):273-9

Arteritis and increased intracellular calcium as a possible mechanism for tacrolimus-related cardiac toxicity in a pediatric transplant recipient. Atkison PR, et al. **Transplantation** 1997 Sep 15;64(5):773-5

PATHOLOGY

Arteritis in a novel congenic strain of mice derived from MRL/Lpr lupus mice: genetic dissociation from glomerulonephritis and limited autoantibody production. Nose M, et al. **Am J Pathol** 1996 Nov;149(5):1763-9

Rare vasculitic syndromes. Dillon MJ. **Ann Med** 1997 Apr; 29(2):175-9

Potential role of the adventitia in arteritis and atherosclerosis. Wilcox JN, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S21-35 (102 ref.)

SURGERY

Ruptured inferior mesenteric artery aneurysm due to segmental mediolytic arteritis. Kato T, et al. **Cardiovasc Surg** 1996 Oct;4(5):644-6 (10 ref.)

THERAPY

A decade of subclavian angioplasty: aortoarteritis versus atherosclerosis. Tyagi S, et al. **Indian Heart J** 1996 Nov-Dec;48(6):667-71

Renal vasculitis. D'Amico G, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:69-74 (47 ref.)

ULTRASONOGRAPHY

Visualization of small vessels in the fingertip of man using color-coded Doppler sonography: a new noninvasive tool reducing the diagnostic gap between macro- and microcirculation. Mück-Weymann M, et al. **Microvasc Res** 1997 Mar;53(2):194-6

VETERINARY

[Is there a superantigen effect on steroid-responsive meningitis-arteritis in dogs?] Tipold A, et al. **Tierarztl Prax** 1996 Oct;24(5):514-8 (Eng. Abstr.) **(Ger)**

VIROLOGY

HIV-related vasculitis: clinical presentation and therapeutic approach on six patients [letter] Gisselbrecht M, et al. **AIDS** 1997 Jan;11(1):121-3

ARTERITIS, TAKAYASU'S see **TAKAYASU'S ARTERITIS**

ARTERITIS, TEMPORAL see **TEMPORAL ARTERITIS**

ARTERITIS VIRUS, EQUINE

Fatal experimental equine arteritis virus infection of a pregnant mare: immunohistochemical staining of viral antigens. MacLachlan NJ, et al. **J Vet Diagn Invest** 1996 Jul;8(3):367-74

Transmission of the South African asinine strain of equine arteritis virus (EAV) among horses and between donkeys and horses. Paweska JT, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):189-96

Equine arteritis virus: a review of clinical features and management aspects. Glaser AL, et al. **Vet Q** 1996 Sep; 18(3):95-9 (51 ref.)

[Equine arteritis virus: clinical symptoms and prevention] Glaser AL, et al. **Tijdschr Diergeneeskd** 1997 Jan 1; 122(1):2-7 (51 ref.) (Eng. Abstr.) **(Dut)**

GENETICS

Genetic and amino acid analysis of the GL protein of Canadian, American and European equine arteritis virus isolates. St-Laurent G, et al. **Can J Vet Res** 1997 Jan; 61(1):72-6

An infectious arterivirus cDNA clone: identification of a replicase point mutation that abolishes discontinuous mRNA transcription. van Dinten LC, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):991-6

Sequence determination of the extreme 5' end of equine arteritis virus leader region. Kheyar A, et al. **Virus Genes** 1996;12(3):291-5

Comparison of nucleic and amino acid sequences and phylogenetic analysis of the Gs protein of various equine arteritis virus isolates. Lepage N, et al. **Virus Genes** 1996; 13(1):87-91

Detection of related positive-strand RNA virus genomes by reverse transcription/polymerase chain reaction using degenerate primers for common replicase sequences. Chen Z, et al. **Virus Res** 1995 Dec;39(2-3):365-75

Genetic variation in open reading frame 2 of field isolates and laboratory strains of equine arteritis virus. Hedges JF, et al. **Virus Res** 1996 Jun;42(1-2):41-52

IMMUNOLOGY

A survey for antibodies to equine arteritis virus in donkeys, mules and zebra using virus neutralisation (VN) and enzyme linked immunosorbent assay (ELISA). Paweska JT, et al. **Equine Vet J** 1997 Jan;29(1):40-3

Neutralization determinants of laboratory strains and field isolates of equine arteritis virus: identification of four neutralization sites in the amino-terminal ectodomain of the G(L) envelope glycoprotein. Balasuriya UB, et al. **Virology** 1997 May 26;232(1):114-28

Expression cloning and antigenic analysis of the nucleocapsid protein of equine arteritis virus. Chirnside ED, et al. **Virus Res** 1995 Dec;39(2-3):277-88

ISOLATION & PURIFICATION

Genetic and amino acid analysis of the GL protein of Canadian, American and European equine arteritis virus isolates. St-Laurent G, et al. **Can J Vet Res** 1997 Jan; 61(1):72-6

Equine viral arteritis in newborn foals: clinical, pathological, serological, microbiological and immunohistochemical observations. Del Piero F, et al. **Equine Vet J** 1997 May; 29(3):178-85

Detection of equine arteritis virus in the semen of carrier stallions by using a sensitive nested PCR assay. Gilbert SA, et al. **J Clin Microbiol** 1997 Aug;35(8):2181-3

Is the South African asinine strain of equine arteritis virus a threat to local horses? [letter] Paweska JT. **J S Afr Vet Assoc** 1996 Sep;67(3):102-3

Failure to establish chronic infection of the reproductive tract of the male horse with a South African asinine strain of equine arteritis virus (EAV). Paweska JT. **Onderstepoort J Vet Res** 1997 Mar;64(1):17-24

METABOLISM

Processing of the equine arteritis virus replicase ORF1b protein: identification of cleavage products containing the putative viral polymerase and helicase domains. van Dinten LC, et al. **J Virol** 1996 Oct;70(10):6625-33

PHYSIOLOGY

Experimental pathological studies on mechanism of abortion caused by equine arteritis virus. Wada R. **Jpn J Vet Res** 1996 Aug;44(2):133-5

ARTERIVIRUS

Dual infections of feeder pigs with porcine reproductive and respiratory syndrome virus followed by porcine respiratory coronavirus or swine influenza virus: a clinical and virological study. Van Reeth K, et al. **Vet Microbiol** 1996 Feb;48(3-4):325-35

GENETICS

Sequence of the 3' end of the simian hemorrhagic fever virus genome. Smith SL, et al. **Gene** 1997 Jun 3;191(2):205-10

Characteristics of major structural protein coding gene and leader-body sequence in subgenomic mRNA of porcine reproductive and respiratory syndrome virus isolated in Japan. Saito A, et al. **J Vet Med Sci** 1996 Apr;58(4):377-80

Detection of related positive-strand RNA virus genomes by reverse transcription/polymerase chain reaction using degenerate primers for common replicase sequences. Chen Z, et al. **Virus Res** 1995 Dec;39(2-3):365-75

IMMUNOLOGY

Detection of antibodies against porcine reproductive and respiratory syndrome (PRRS) virus in swine sera by enzyme-linked immunosorbent assay. Takikawa N, et al. **J Vet Med Sci** 1996 Apr;58(4):355-7

ISOLATION & PURIFICATION

Detection of porcine reproductive and respiratory syndrome virus and Mycoplasma hyorhinis antigens in pulmonary lesions of pigs suffering from respiratory distress. Kawashima K, et al. **J Comp Pathol** 1996 Apr;114(3):315-23

Detection of porcine reproductive and respiratory syndrome virus in cell cultures and formalin-fixed tissues by in situ hybridization using a digoxigenin-labeled probe. Larochelle R, et al. **J Vet Diagn Invest** 1996 Jan;8(1):3-10

Isolation of porcine respiratory coronavirus from pigs affected with porcine reproductive and respiratory syndrome. Kamogawa O, et al. **J Vet Med Sci** 1996 Apr; 58(4):385-8

PATHOGENICITY

Comparative pathogenicity of nine US porcine reproductive and respiratory syndrome virus (PRRSV) isolates in a five-week-old cesarean-derived, colostrum-deprived pig model. Halbur PG, et al. **J Vet Diagn Invest** 1996 Jan; 8(1):11-20

PHYSIOLOGY

Fetal microscopic lesions in porcine reproductive and respiratory syndrome virus-induced abortion. Rossow KD, et al. **Vet Pathol** 1996 Jan;33(1):95-9

ARTERIVIRUS INFECTIONS

IMMUNOLOGY

Trojan Horse macrophages: studies with the murine lactate dehydrogenase-elevating virus and implications for sexually transmitted virus infection. Cafruny WA, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3005-12

C58 and AKR mice of all ages develop motor neuron disease after lactate dehydrogenase-elevating virus infection but only if antiviral immune responses are blocked by chemical or genetic means or as a result of old age. Anderson GW, et al. **J Neurovirol** 1995 Sep;1(3-4):244-52

TRANSMISSION

Transmission of the South African asinine strain of equine arteritis virus (EAV) among horses and between donkeys and horses. Paweska JT, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):189-96

VETERINARY

Equine viral arteritis in newborn foals: clinical, pathological, serological, microbiological and immunohistochemical observations. Del Piero F, et al. **Equine Vet J** 1997 May; 29(3):178-85

A survey for antibodies to equine arteritis virus in donkeys, mules and zebra using virus neutralisation (VN) and enzyme linked immunosorbent assay (ELISA). Paweska JT, et al. **Equine Vet J** 1997 Jan;29(1):40-3

Detection of equine arteritis virus in the semen of carrier stallions by using a sensitive nested PCR assay. Gilbert SA, et al. **J Clin Microbiol** 1997 Aug;35(8):2181-3

Detection of porcine reproductive and respiratory syndrome virus and Mycoplasma hyorhinis antigens in pulmonary lesions of pigs suffering from respiratory distress. Kawashima K, et al. **J Comp Pathol** 1996 Apr;114(3):315-23

Is the South African asinine strain of equine arteritis virus a threat to local horses? [letter] Paweska JT. **J S Afr Vet Assoc** 1996 Sep;67(3):102-3

Comparative pathogenicity of nine US porcine reproductive and respiratory syndrome virus (PRRSV) isolates in a five-week-old cesarean-derived, colostrum-deprived pig model. Halbur PG, et al. **J Vet Diagn Invest** 1996 Jan; 8(1):11-20

Detection of porcine reproductive and respiratory syndrome virus in cell cultures and formalin-fixed tissues by in situ hybridization using a digoxigenin-labeled probe. Larochelle R, et al. **J Vet Diagn Invest** 1996 Jan;8(1):3-10

Fatal experimental equine arteritis virus infection of a pregnant mare: immunohistochemical staining of viral antigens. MacLachlan NJ, et al. **J Vet Diagn Invest** 1996 Jul;8(3):367-74

Isolation of porcine respiratory coronavirus from pigs affected with porcine reproductive and respiratory syndrome. Kamogawa O, et al. **J Vet Med Sci** 1996 Apr; 58(4):385-8

Characteristics of major structural protein coding gene and leader-body sequence in subgenomic mRNA of porcine reproductive and respiratory syndrome virus isolated in Japan. Saito A, et al. **J Vet Med Sci** 1996 Apr;58(4):377-80

Detection of antibodies against porcine reproductive and respiratory syndrome (PRRS) virus in swine sera by enzyme-linked immunosorbent assay. Takikawa N, et al. **J Vet Med Sci** 1996 Apr;58(4):355-7

Experimental pathological studies on mechanism of abortion caused by equine arteritis virus. Wada R. **Jpn J Vet Res** 1996 Aug;44(2):133-5

Failure to establish chronic infection of the reproductive tract of the male horse with a South African asinine strain of equine arteritis virus (EAV). Paweska JT. **Onderstepoort J Vet Res** 1997 Mar;64(1):17-24

Dual infections of feeder pigs with porcine reproductive and respiratory syndrome virus followed by porcine respiratory coronavirus or swine influenza virus: a clinical and virological study. Van Reeth K, et al. **Vet Microbiol** 1996 Feb;48(3-4):325-35

Fetal microscopic lesions in porcine reproductive and respiratory syndrome virus-induced abortion. Rossow KD, et al. **Vet Pathol** 1996 Jan;33(1):95-9

Equine arteritis virus: a review of clinical features and management aspects. Glaser AL, et al. **Vet Q** 1996 Sep; 18(3):95-9 (51 ref.)

[Equine arteritis virus: clinical symptoms and prevention] Glaser AL, et al. **Tijdschr Diergeneeskd** 1997 Jan 1; 122(1):2-7 (51 ref.) (Eng. Abstr.) **(Dut)**

VIROLOGY

Coexistence in lactate dehydrogenase-elevating virus pools of variants that differ in neuropathogenicity and ability to establish a persistent infection. Chen Z, et al. **J Virol** 1997 Apr;71(4):2913-20

Determination of the viremia threshold for dental cross-infection in a mouse model. Cafruny WA, et al. **J Virol Methods** 1996 May;59(1-2):83-9

Detection of lactate dehydrogenase-elevating virus in transplantable mouse tumors by biological assay and RT-PCR assays and its removal from the tumor cell. Chen Z, et al. **J Virol Methods** 1997 May;65(2):227-36

Regulation of transplacental virus infection by developmental and immunological factors: studies with lactate dehydrogenase-elevating virus. Haven TR, et al.

Virus Res 1996 Apr;41(2):153–61

ARTHRALGIA

CHEMICALLY INDUCED

Fluoroquinolone induced arthralgia and magnetic resonance imaging [letter; comment] [see comments] Loeuille D, et al. **J Rheumatol** 1996 Jul;23(7):1313–4. Comment on: J Rheumatol 1995 Apr;22(4):793–4. Comment in: J Rheumatol 1997 May;24(5):1015–7.

Rheumatologic aspects of pediatric cystic fibrosis patients treated with fluoroquinolones. Warren RW. **Pediatr Infect Dis J** 1997 Jan;16(1):118–22; discussion 123–6 (34 ref.)

Silicone breast implants and drug-induced arthralgia [letter] Cadier MA, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1464

COMPLICATIONS

Cryofibrinogenemia with polyarthralgia, Raynaud's phenomenon and acral ulcer in a patient with Graves' disease treated with methimazole. Hosoi K, et al. **Intern Med** 1997 Jun;36(6):439–42

DIAGNOSIS

Evaluation of the painful wrist. Kuschner SH, et al. **Am J Orthop** 1997 Feb;26(2):95–102 (66 ref.)

Clubbing, arthralgia and haemoptysis in a patient with metastatic carcinoma of the breast [letter] Gregory RK, et al. **Ann Oncol** 1996 Sep;7(7):756–7 (4 ref.)

Arthroscopic diagnosis of posttraumatic disorders of the wrist. Möllenhoff G, et al. **Arch Orthop Trauma Surg** 1996; 115(6):351–6

Sports medicine. Shoulder pain. Part 1: Clinical assessment. Brukner P. **Aust Fam Physician** 1996 Oct;25(10):1593–5, 1597

Infectious disease case study. A man with fever and multiple joint pains. Golledge C. **Aust Fam Physician** 1996 Oct; 25(10):1639

MRI evidence of high signal intensity and temporomandibular arthralgia and relating pain. Does the high signal correlate to the pain? Murakami K, et al. **Br J Oral Maxillofac Surg** 1996 Jun;34(3):220–4

The painful shoulder: can consultants agree? Bamji AN, et al. **Br J Rheumatol** 1996 Nov;35(11):1172–4

The value of arthroscopy in the evaluation of carpal instability. Sennwald GR, et al. **Bull Hosp Jt Dis** 1996; 54(3):186–9

The hand therapist's role in diagnosing the painful wrist: a philosophical essay. Flowers KR. **J Hand Ther** 1996 Apr–Jun;9(2):94–5

Clinical examination of the wrist. Skirven T. **J Hand Ther** 1996 Apr–Jun;9(2):96–107 (47 ref.)

Fluoroquinolone induced arthralgia and magnetic resonance imaging [letter; comment] [see comments] Loeuille D, et al. **J Rheumatol** 1996 Jul;23(7):1313–4. Comment on: J Rheumatol 1995 Apr;22(4):793–4. Comment in: J Rheumatol 1997 May;24(5):1015–7.

A painful shoulder. O'Reilly MA, et al. **Mil Med** 1996 May; 161(5):306–7

MR imaging of the painful wrist. Oneson SR, et al. **Radiographics** 1996 Sep;16(5):997–1008

Multiorgan sarcoidosis presenting with symmetric polyarthralgia, cutaneous vasculitis, and sicca symptoms. Gran JT. **Scand J Rheumatol** 1997;26(3):225–6

Enlarged peroneal process with peroneus longus tendon entrapment. Boles MA, et al. **Skeletal Radiol** 1997 May; 26(5):313–5

[Assessment of shoulder pain in athletes] Biasca N, et al. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1123–35 (27 ref.) (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Comparative efficacy and tolerability of two diclofenac formulations in the treatment of painful osteoarthritis. Bakshi R. **Br J Clin Pract** 1996 Sep;50(6):294–7

Comparison of electromotive drug administration with ketorolac or with placebo in patients with pain from rheumatic disease: a double-masked study. Saggini R, et al. **Clin Ther** 1996 Nov–Dec;18(6):1169–74

EPIDEMIOLOGY

Hemiplegic shoulder pain (HSP): natural history and investigation of associated features. Wanklyn P, et al. **Disabil Rehabil** 1996 Oct;18(10):497–501

Factors associated with joint pain among postmenopausal women. Huang C, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):349–54

Has musculoskeletal pain become less prevalent? Manninen P, et al. **Scand J Rheumatol** 1996;25(1):37–41

ETIOLOGY

Symptomatic herniation pits of the femoral neck: anatomic and clinical study. Daenen B, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):149–53

Shoulder pain and subluxation after stroke: correlation or coincidence? Zorowitz RD, et al. **Am J Occup Ther** 1996 Mar;50(3):194–201

Chronic, painful ankle instability in skeletally immature athletes. Ununited osteochondral fractures of the distal fibula. Busconi BD, et al. **Am J Sports Med** 1996 Sep–Oct; 24(5):647–51

Chronic arthropathy and musculoskeletal symptoms associated with rubella vaccines. A review of 124 claims submitted to the National Vaccine Injury Compensation Program [published erratum appears in Arthritis Rheum 1996 Nov;39(11):1930] Weibel RE, et al. **Arthritis Rheum** 1996 Sep;39(9):1529–34

Case of the month: painful ankle swelling—diagnosis by MRI. Peh WC, et al. **Br J Radiol** 1996 Sep;69(825):881–2

Muscular imbalance and shoulder pain in volleyball attackers. Kugler A, et al. **Br J Sports Med** 1996 Sep;30(3):256–9

Fever, rash, and arthralgias in a male adolescent. Clough JD. **Cleve Clin J Med** 1996 Nov–Dec;63(7):378–80

Urticaria, arthralgia, and nephropathy without amyloidosis: another variant of the Muckle–Wells syndrome? Throssell D, et al. **Clin Genet** 1996 Mar;49(3):130–3

Case of the month: a five-year-old girl with intractable arthralgias. Zulian F, et al. **Eur J Pediatr** 1997 May; 156(5):415–6

Evaluation and treatment of acute knee pain. Kalb RL. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):61–3

Joint symptoms after restorative proctocolectomy in ulcerative colitis and familial polyposis coli. Andreyev HJ, et al. **J Clin Gastroenterol** 1996 Jul;23(1):35–9

Arthralgia as an early extraintestinal symptom of Whipple's disease. Report of five cases. Schilling D, et al. **J Clin Gastroenterol** 1997 Jan;24(1):18–20

Triangular fibrocartilage and intercarpal ligaments of the wrist: does MR arthrography improve standard MRI? Zanetti M, et al. **J Magn Reson Imaging** 1997 May–Jun; 7(3):590–4

Diffuse arthralgia and myalgia as the first manifestation of benign myeloradiculopathy due to cytomegalovirus infection in an immunocompetent patient. Etaouil N, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):57–8 (7 ref.)

Thromboangiitis obliterans with arthralgia, diarrhea and nodules as the first symptoms [letter] Zarnitsky C, et al. **Rev Rhum Engl Ed** 1997 May;64(5):353–4

[Clinical judgment and decision making in clinical practice. A patient with joint symptoms (letter; comment)] Bruyn GA. **Ned Tijdschr Geneeskd** 1996 Sep 28;140(39):1969. Comment on: Ned Tijdschr Geneeskd 1996 Aug 17;140(33):1675–9. **(Dut)**

[Abdominal colic, petechiae, arthralgia amd tar stools in a 56-year-old kidney transplant patient] Schuster MJ, et al. **Internist (Berl)** 1996 Mar;37(3):310–4 **(Ger)**

[A case from practice (363). Monoarthritis in juvenile chronic arthritis] Stalder H. **Schweiz Rundsch Med Prax** 1996 Nov 26;85(48):1559–61 **(Ger)**

MICROBIOLOGY

Musculoskeletal infections in patients with human immunodeficiency virus infection. Vassilopoulos D, et al. **Medicine (Baltimore)** 1997 Jul;76(4):284–94 (129 ref.)

PATHOLOGY

Madelung's deformity from a rheumatologist's point of view [letter] Tlacuilo-Parra JA, et al. **Br J Rheumatol** 1997 Aug; 36(8):925–6

Survey of gastrointestinal reactions to foods in adults in relation to atopy, presence of mucus in the stools, swelling of joints and arthralgia in patients with gastrointestinal reactions to foods. Bengtsson U, et al. **Clin Exp Allergy** 1996 Dec;26(12):1387–94

Acquired multifocal myofibrillar disruption selective of type II fibres. Putzu GA, et al. **Neuropathol Appl Neurobiol** 1996 Feb;22(1):38–43

PHYSIOPATHOLOGY

Shoulder strength and range of motion in symptomatic and pain-free elite swimmers. Bak K, et al. **Am J Sports Med** 1997 Jul–Aug;25(4):454–9

Anterior knee pain caused by overactivity: a long term prospective followup. Milgrom C, et al. **Clin Orthop** 1996 Oct;(331):256–60

The condylar asymmetry-age relationship in determining myogenous or arthrogenous origin of pain in patients with temporomandibular disorders. Miller VJ, et al. **J Oral Rehabil** 1996 Jun;23(6):392–4

Patellofemoral pain syndrome: diagnosis and management. Papagelopoulos PJ, et al. **Orthopedics** 1997 Feb; 20(2):148–57; quiz 158–9 (76 ref.)

Association of pain with radiological changes in different compartments and views of the knee joint. Cicuttini FM, et al. **Osteoarthritis Cartilage** 1996 Jun;4(2):143–7

RADIOGRAPHY

Hip pain in an adolescent. Pear BL, et al. **Arthritis Rheum** 1997 Mar;40(3):583–5

Madelung's deformity from a rheumatologist's point of view [letter] Tlacuilo-Parra JA, et al. **Br J Rheumatol** 1997 Aug; 36(8):925–6

Association of pain with radiological changes in different compartments and views of the knee joint. Cicuttini FM, et al. **Osteoarthritis Cartilage** 1996 Jun;4(2):143–7

RADIOTHERAPY

Radiotherapy for extreme hypertrophic pulmonary osteoarthropathy associated with malignancy. Yeo W, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):195–7

REHABILITATION

Understanding prognosis to improve rehabilitation: the example of lateral elbow pain. Hudak PL, et al. **Arch Phys Med Rehabil** 1996 Jun;77(6):586–93 (39 ref.)

Rehabilitation of neck/shoulder patients in primary health care clinics. Jordan A, et al. **J Manipulative Physiol Ther** 1996 Jan;19(1):32–5 (43 ref.)

Implementation of neck/shoulder rehabilitation in primary health care clinics. Jordan A, et al. **J Manipulative Physiol Ther** 1996 Jan;19(1):36–40 (25 ref.)

SURGERY

Sauvé-Kapandji procedure for disorders of the distal radioulnar joint: a simplified technique. Rothwell AG, et al. **J Hand Surg [Am]** 1996 Sep;21(5):771–7

Effect of tibial tubercle elevation on patellofemoral compressive force in patellofemoral arthrosis. Taşkiran E, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):31–5

[Femoropatellar pain syndrome: which operation is still sensible?] Biedert R, et al. **Ther Umsch** 1996 Oct; 53(10):775–9 (Eng. Abstr.) **(Ger)**

THERAPY

[Femoropatellar pain syndrome—conservative therapeutic possibilities] Klipstein A, et al. **Ther Umsch** 1996 Oct; 53(10):745–51 (Eng. Abstr.) **(Ger)**

ARTHRITIS

Report of the workshop on training clinical researchers in arthritis and musculoskeletal and skin diseases [letter] DiGiovanna JJ, et al. **Arch Dermatol** 1997 Feb;133(2):241–2

Career counseling for teenagers with arthritis. Brewer EJ. **Bull Rheum Dis** 1996 May;45(3):4–6

Chronic infantile neurological cutaneous articular syndrome in a patient from Japan. Miura M, et al. **Eur J Pediatr** 1997 Aug;156(8):624–6

DBA/1 mice expressing the human TNF-alpha transgene develop a severe, erosive arthritis: characterization of the cytokine cascade and cellular composition. Butler DM, et al. **J Immunol** 1997 Sep 15;159(6):2867–76

OMERACT III. Outcome Measures in Arthritis Clinical Trials. Cairns, Australia, April 16–19, 1996. Proceedings. **J Rheumatol** 1997 Apr;24(4):763–802

Characteristics of peripheral arthritis in Behçet's disease. Calgüneri M, et al. **N Z Med J** 1997 Mar 14;110(1039):80–1

[Use of a laryngeal mask in cricoarytenoid arthritis: risk of airway obstruction (letter; comment)] Gállego-Franco FJ, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):228. Comment on: Rev Esp Anestesiol Reanim 1994 Sep–Oct;41(5):301–2. **(Spa)**

BLOOD

Interleukin-1 in haemophilic arthritis [letter] Tagariello G, et al. **Thromb Haemost** 1996 Jun;75(6):979–80

CHEMICALLY INDUCED

Minocycline induced arthritis associated with fever, livedo reticularis, and pANCA. Elkayam O, et al. **Ann Rheum Dis** 1996 Oct;55(10):769–71

Involvement of endogenous kinins in the pathogenesis of peptidoglycan-induced arthritis in the Lewis rat. Blais C Jr, et al. **Arthritis Rheum** 1997 Jul;40(7):1327–33

Agranulocytosis, arthritis and systemic vasculitis in a patient receiving the oral iron chelator L1 (deferiprone). Castriota-Scanderbeg A, et al. **Br J Haematol** 1997 Feb; 96(2):254–5

Polyarthritis associated with hepatitis B vaccination [letter] Bracci M, et al. **Br J Rheumatol** 1997 Feb;36(2):300–1

Antineutrophil cytoplasmic antibody-positive polyarthritis associated with minocycline therapy [letter] Gaffney K, et al. **Br J Rheumatol** 1996 Dec;35(12):1327

Induction by chronic autoimmune arthritis in DBA/1 mice by oral administration of type II collagen and Escherichia coli lipopolysaccharide. Terato K, et al. **Br J Rheumatol** 1996 Sep;35(9):828–38

Polyarthropathy, orbital myositis and posterior scleritis: an unusual adverse reaction to influenza vaccine. Thurairajan G, et al. **Br J Rheumatol** 1997 Jan;36(1):120–3

Altered (oxidized) C1q induces a rheumatoid arthritis-like destructive and chronic inflammation in joint structures in arthritis-susceptible rats. Trinder PK, et al. **Clin Immunol Immunopathol** 1997 Feb;82(2):149–56

Relationship between osteoporosis and arthritis and effect of corticosteroids and other drugs on bone. Henderson NK, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):365–9 (43 ref.)

Acute arthritis during isotretinoin treatment for acne conglobata [letter] De Francesco V, et al. **Dermatology** 1997;194(2):195

Bradykinin-induced knee joint incapacitation involves bradykinin B2 receptor mediated hyperalgesia and bradykinin B1 receptor-mediated nociception. Tonussi CR, et al. **Eur J Pharmacol** 1997 May 12;326(1):61–5

Quinolone arthropathy in immature rabbits treated with the fluoroquinolone, PD 117596. Gough A, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):225–32

Degradation of articular cartilage during the progression of antigen-induced arthritis in mice. A scanning and

transmission electron microscopic study. Henzgen S, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):255–63

Effect of IL-10 on collagen-induced arthritis in mice. Tanaka Y, et al. **Inflamm Res** 1996 Jun;45(6):283–8

Inflammatory cytokine production induced by an analogue of muramyl dipeptide MDP-Lys(L18) in rat macrophage cultures and dog synovial fluid. Sugawara T, et al. **Inflammation** 1996 Feb;20(1):43–56

Arthritis, hypercalcemia, and lytic bone lesions after hepatitis B vaccination. Cathebras P, et al. **J Rheumatol** 1996 Mar; 23(3):558–60

Interferon-alpha associated arthritis. Chung A, et al. **J Rheumatol** 1997 Sep;24(9):1844–5

Bone marrow stromal cells contribute to synovial cell proliferation in rats with collagen induced arthritis. Nakagawa S, et al. **J Rheumatol** 1996 Dec;23(12):2098–103

An I2 imidazoline ligand, RS 45041, potentiates hyperalgesia in acute arthritis. Houghton AK, et al. **Neuroreport** 1996 Jun 17;7(9):1497–501

Sodium urate arthritis: effects on the sensory properties of articular afferents in the chicken. Gentle MJ. **Pain** 1997 Apr;70(2–3):245–51

Rheumatologic aspects of pediatric cystic fibrosis patients treated with fluoroquinolones. Warren RW. **Pediatr Infect Dis J** 1997 Jan;16(1):118–22; discussion 123–6 (34 ref.)

Pain-related behaviour following sodium urate arthritis is expressed in decerebrate chickens. Gentle MJ. **Physiol Behav** 1997 Sep;62(3):581–4

Drug-induced antisynthetase syndrome. Thickett DR, et al. **Postgrad Med J** 1997 Mar;73(857):165–6

Acute monoarthritis in a patient under isotretinoin [letter] Dubourg G, et al. **Rev Rhum Engl Ed** 1996 Mar;63(3):228–9

[Erosive polyarthritis triggered by vaccination against hepatitis B (letter)] Soubrier M, et al. **Presse Med** 1997 Feb 1;26(2):75 **(Fre)**

[Inhibitory effects of portal venous injection of type II collagen in collagen-induced arthritis] Ogasawara H, et al. **Nippon Ika Daigaku Zasshi** 1997 Jun;64(3):220–4 (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Jaccoud's arthropathy of the hands in overlap syndrome. Paredes JG, et al. **Clin Rheumatol** 1997 Jan;16(1):65–9

COMPLICATIONS

Arthritis in a patient with homozygous familial hypercholesterolemia. Genel F, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):362–3

An unusual case of carcinoma polyarthritis with associated vasculitis. Madiedo JM, et al. **Arthritis Rheum** 1997 Apr; 40(4):779–82

Treatment of collagenous colitis with methotrexate [letter] Bhullar DS, et al. **Aust N Z J Med** 1996 Feb;26(1):114

Pityriasis rubra pilaris and a seronegative polyarthritis [letter] Lister RK, et al. **Br J Dermatol** 1997 Aug;137(2):318–9

Natural remission in inflammatory polyarthritis: issues of definition and prediction [see comments] Harrison BJ, et al. **Br J Rheumatol** 1996 Nov;35(11):1096–100 (21 ref.). Comment in: Br J Rheumatol 1996 Nov;35(11):1039–40.

Interosseous nerve entrapment syndromes complicating inflammatory arthritis [letter] Gaffney K, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):339–40

Erythema multiforme-like manifestations and arthritis in a 3-year-old child with leukocytoclastic vasculitis. Gattorno M, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):329–32

Leukocytoclastic vasculitis and polyarthritis associated with Mycoplasma pneumoniae infection. Perez C, et al. **Clin Infect Dis** 1997 Jul;25(1):154–5

Rheumatologic manifestations of HIV infections. Kaye BR. **Clin Rev Allergy Immunol** 1996–97 Winter;14(4):385–416 (274 ref.)

Palmar fasciitis and polyarthritis syndrome is multicausal [letter] Fernandez-Nebro A, et al. **Clin Rheumatol** 1996 Jan;15(1):99–101 (8 ref.)

Palmar fasciitis and polyarthritis associated with ovarian carcinoma in a young patient. A case report and review of the literature. Vinker S, et al. **Clin Rheumatol** 1996 Sep; 15(5):495–7 (12 ref.)

Hemochromatosis arthropathy. Neumann DP. **Conn Med** 1996 Aug;60(8):465–7

Ileal pouch arthritis: a case report. ter Borg EJ, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):957–9 (7 ref.)

Surgery of systemic lupus erythematosus arthritis of the hand. Nalebuff EA. **Hand Clin** 1996 Aug;12(3):591–602 (23 ref.)

Co-existence of non-Hodgkin's lymphoma in the leukemic phase and polyarthritis simulating rheumatoid arthritis. Nishiya K, et al. **Intern Med** 1997 Mar;36(3):227–31

Septic and non-septic olecranon bursitis in the accident and emergency department--an approach to management. Stell IM. **J Accid Emerg Med** 1996 Sep;13(5):351–3

A sequential trial of pain killers in arthritis: issues of multiple comparisons with control and of interval-censored survival data. Whitehead J, et al. **J Biopharm Stat** 1997 Jul; 7(3):333–53

Mycoplasmas in rheumatoid arthritis and other human arthritides [editorial] Taylor-Robinson D, et al. **J Clin Pathol** 1996 Oct;49(10):781–2

The CINCA syndrome: a rare cause of uveitis in childhood. Sadiq SA, et al. **J Pediatr Ophthalmol Strabismus** 1996 Jan-Feb;33(1):59–63

Arthritis in primary antiphospholipid syndrome? [letter; comment] [see comments] Queyrel V, et al. **J Rheumatol** 1996 Jul;23(7):1305–6. Comment on: J Rheumatol 1992 Dec;19(12):1835–7. Comment in: J Rheumatol 1997 Apr;24(4):808–9.

Liver involvement in familial granulomatous arthritis (Blau syndrome). Saini SK, et al. **J Rheumatol** 1996 Feb; 23(2):396–9

The clinical patterns of arthritis in children with familial Mediterranean fever. Majeed HA, et al. **QJM** 1997 Jan; 90(1):37–43

Acute sacroiliac arthritis and sarcoidosis [letter] Alijotas-Reig J, et al. **Rev Rhum Engl Ed** 1997 Apr; 64(4):278

Evaluation of magnetic resonance imaging for the detection of sacroiliitis in patients with early seronegative spondylarthropathy. Rémy M, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):577–83

Syndromes and arthritis. Chalom EC, et al. **Rheum Dis Clin North Am** 1997 Aug;23(3):709–27 (110 ref.)

Spondylarthropathy with distal joint involvement. de Saint Pierre V, et al. **Scand J Rheumatol** 1996;25(5):331–3

Considerations for nonsteroidal anti-inflammatory drug therapy: safety. Blower AL. **Scand J Rheumatol Suppl** 1996; 105:13–24; discussion 25–7 (51 ref.)

[RS3PE syndrome: presentation of two cases] Parra Ródenas JV, et al. **An Med Interna** 1996 Dec;13(12):601–2 (Eng. Abstr.) **(Spa)**

[Myoclonus associated with tuberculous sacroiliitis (letter)] Fernández-Fernández FJ, et al. **Med Clin (Barc)** 1996 Oct 5;107(11):439 **(Spa)**

DIAGNOSIS

Acute monoarthritis: a practical approach to assessment and treatment. Towheed TE, et al. **Am Fam Physician** 1996 Nov 15;54(7):2239–43 (9 ref.)

Office evaluation of the patient with musculoskeletal complaints. Barth WF. **Am J Med** 1997 Jan 27; 102(1A):3S–10S (23 ref.)

The overdiagnosis of fibromyalgia syndrome. Fitzcharles MA, et al. **Am J Med** 1997 Jul;103(1):44–50

Monarthritis: differential diagnosis. Sack K. **Am J Med** 1997 Jan 27;102(1A):30S–34S (24 ref.)

Biologic markers of arthritis [letter; comment] Slater R. **Am J Orthop** 1996 Aug;25(8):521, 570. Comment on: Am J Orthop 1996 Apr;25(4):263–72.

Management of childhood arthritis. Part 1: Acute arthritis. Malleson PN. **Arch Dis Child** 1997 May;76(5):460–2 (19 ref.)

Oncoprotein expression in human synovial tissue: an immunohistochemical study of different types of arthritis. Roivainen A, et al. **Br J Rheumatol** 1996 Oct;35(10):933–42

Simulators of hand infections. Kann SE, et al. **Instr Course Lect** 1997;46:69–82 (169 ref.)

Migrating monopredominant arthritis in children of Assyrian ancestry [letter; comment] Arisoy N, et al. **J Rheumatol** 1996 Nov;23(11):2002–3; discussion 2003–4. Comment on: J Rheumatol 1996 Jan;23(1):178–80.

Magnetic resonance imaging (MRI) for detection of active sacroiliitis--a prospective study comparing conventional radiography, scintigraphy, and contrast enhanced MRI. Blum U, et al. **J Rheumatol** 1996 Dec;23(12):2107–15

Migrating monopredominant arthritis in children of Assyrian ancestry [letter; comment] Fomberstein B, et al. **J Rheumatol** 1996 Nov;23(11):2002. Comment on: J Rheumatol 1996 Jan;23(1):178–80.

Migrating monopredominant arthritis in children of Assyrian ancestry [letter; comment] Gedalia A, et al. **J Rheumatol** 1996 Nov;23(11):2002. Comment on: J Rheumatol 1996 Jan;23(1):178–80.

Migrating monopredominant arthritis in children of Assyrian ancestry [letter] Gül A, et al. **J Rheumatol** 1996 Nov; 23(11):2003

Arthritis and primary antiphospholipid syndrome [letter; comment] Hachulla E. **J Rheumatol** 1997 Apr;24(4):808–9 . Comment on: J Rheumatol 1996 Jul;23(7):1305–6.

Inflammatory polyarthritis in the community is not a benign disease: predicting functional disability one year after presentation. Harrison BJ, et al. **J Rheumatol** 1996 Aug; 23(8):1326–31

Myelodysplasia presenting as monoarthritis [letter] Kaufman LD, et al. **J Rheumatol** 1997 Jul;24(7):1446–7

Leprosy: an unusual cause of arthritis in children. A report of two cases [letter] Terreri MT, et al. **J Trop Pediatr** 1997 Jun;43(3):186–7

Spondylarthropathies. Edmonds JP. **Med J Aust** 1997 Feb 17;166(4):214–9 (12 ref.)

The evaluation and initial management of arthritis. Dearborn JT, et al. **Prim Care** 1996 Jun;23(2):215–40 (43 ref.)

Arthritic temporomandibular joint: correlation of macromolecular contrast-enhanced MR imaging parameters and histopathologic findings. van Dijke CF, et al. **Radiology** 1997 Sep;204(3):825–32

Evaluation of magnetic resonance imaging for the detection of sacroiliitis in patients with early seronegative spondylarthropathy. Rémy M, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):577–83

HLA-DR genotyping, diagnosis and prognosis of inflammatory arthritis. Roudier J. **Rev Rhum Engl Ed** 1995 Dec;62(11):733–5

[Kikuchi's disease. A rare cause of fever, lymphadenopathies and polyarthritis] Moraes MF, et al. **Acta Med Port** 1997 Jan;10(1):103–6 (27 ref.) (Eng. Abstr.) **(Por)**

[Seronegative arthritis: reexamination of the initial diagnosis and prognosis after 10 years] Castro I, et al. **Rev Med Chil** 1996 Feb;124(2):217–24 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

The appropriate use of NSAIDs in arthritic conditions. Moskowitz RW. **Am J Orthop** 1996 Sep;25(9 Suppl):4–6

Use of an objective measure of articular stiffness to record changes in finger joints after intra-articular injection of corticosteroid. Helliwell PS. **Ann Rheum Dis** 1997 Jan; 56(1):71–3

Radiographic patterns and response to corticosteroid hip injection. Plant MJ, et al. **Ann Rheum Dis** 1997 Aug; 56(8):476–80

Management of childhood arthritis. Part 2: Chronic arthritis. Malleson PN. **Arch Dis Child** 1997 Jun;76(6):541–4 (40 ref.)

The value of arthrography in steroid injection of the shoulder joint [letter] Goh GJ, et al. **Br J Rheumatol** 1997 Jun; 36(6):709–10

Cyclosporin inhibits hyperalgesia and edema in arthritic rats: role of the central nervous system. Francischi JN, et al. **Braz J Med Biol Res** 1997 Jan;30(1):101–11

Thalidomide therapy of established collagen-induced arthritis (CIA) not accompanied by an evident Th2 shift. Hauschild A, et al. **Clin Exp Immunol** 1997 Jun; 108(3):428–31

Suppressive effects of a herbal formula, TBL-1, on type II collagen-induced arthritis in DBA/1J mice. Li SH, et al. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):236–40

Cyclosporine A shows immunosuppressor activity on T lymphocytes from the peripheral blood and synovial fluid of patients with autoimmune arthritis. Guillen C, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):145–53

Relationship between osteoporosis and arthritis and effect of corticosteroids and other drugs on bone. Henderson NK, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):365–9 (43 ref.)

Pyoderma gangrenosum associated with cystic acne and hidradenitis suppurativa controlled by adding minocycline and sulfasalazine to the treatment regimen. Shenefelt PD. **Cutis** 1996 May;57(5):315–9

Interleukin-1 beta converting enzyme inhibition blocks progression of type II collagen-induced arthritis in mice. Ku G, et al. **Cytokine** 1996 May;8(5):377–86

Pathological evaluation of effect of anti-rheumatic drugs on type II collagen-induced arthritis in Lewis rats. Takeshita M, et al. **Exp Anim** 1997 Apr;46(2):165–9

Tenidap, a structurally novel drug for the treatment of arthritis: antiinflammatory and analgesic properties. Moore PF, et al. **Inflamm Res** 1996 Feb;45(2):54–61

The effects of mesoporphyrin on experimental arthritis in mice. Nagai H, et al. **Inflamm Res** 1996 Jun;45(6):293–8

Immunomodulation of rat antigen-induced arthritis by leflunomide alone and in combination with cyclosporin A. Thoss K, et al. **Inflamm Res** 1996 Feb;45(2):103–7

Synergistic effects of thalidomide and poly (ADP-ribose) polymerase inhibition on type II collagen-induced arthritis in mice. Kröger H, et al. **Inflammation** 1996 Apr; 20(2):203–15

Effects of cytogenin on spontaneous arthritis in MRL/1 mice and on pristane-induced arthritis (PIA) in DBA/1J mice. Abe C, et al. **Int J Tissue React** 1995;17(5–6):175–80

A sequential trial of pain killers in arthritis: issues of multiple comparisons with control and of interval-censored survival data. Whitehead J, et al. **J Biopharm Stat** 1997 Jul; 7(3):333–53

Naproxen concentrations in plasma and synovial fluid and effects on prostanoid concentrations [see comments] Day RO, et al. **J Rheumatol** 1995 Dec;22(12):2295–303. Comment in: J Rheumatol 1996 Oct;23(10):1826; discussion 1827–8. Comment in: J Rheumatol 1996 Oct;23(10):1826–7; discussion 1827–8.

Reinstitution of gold after gold induced proteinuria. Klinkhoff AV, et al. **J Rheumatol** 1997 Jul;24(7):1277–9

Biological response modifiers may yield a new class of drugs to treat arthritis [news] Skolnick AA. **JAMA** 1997 Jan 22–29;277(4):276–8

Effect of mizoribine on collagen-induced arthritis in mice. Kamada H, et al. **Jpn J Pharmacol** 1996 Feb;70(2):169–75

Spondylarthropathies. Edmonds JP. **Med J Aust** 1997 Feb 17;166(4):214–9 (12 ref.)

Arthritis and the community [editorial] Muirden KD. **Med J Aust** 1997 Apr 7;166(7):344–5

Arthritis and anti-inflammatory agents as possible protective factors for Alzheimer's disease: a review of 17 epidemiologic studies [see comments] McGeer PL, et al. **Neurology** 1996 Aug;47(2):425–32. Comment in: Neurology 1997 May;48(5):1473–4.

The effect of SM-8849 on experimental arthritis in mice. Nagai H, et al. **Pharmacology** 1996 Jun;52(6):377–86

Response to minocycline of arthritis associated with agammaglobulinemia. A case-report. Soubrier M, et al. **Rev Rhum Engl Ed** 1997 Mar;64(3):195–7

Seizures and hepatotoxicity following sulphasalazine administration. Sentürk T, et al. **Rheumatol Int** 1997; 17(2):75–7

Folate and homocysteine status and haemolysis in patients treated with sulphasalazine for arthritis. Krogh Jensen M, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):421–9

Considerations for nonsteroidal anti-inflammatory drug therapy: safety. Blower AL. **Scand J Rheumatol Suppl** 1996;

105:13–24; discussion 25–7 (51 ref.)
Strategies and practice for use of nonsteroidal anti-inflammatory drugs. Peloso PM.
Scand J Rheumatol Suppl 1996;105:29–43; discussion 44–6 (32 ref.)
Diagnosis and treatment of heel pain in chronic inflammatory arthritis using ultrasound. Cunnane G, et al.
Semin Arthritis Rheum 1996 Jun;25(6):383–9
[Local administration of somatostatin in joint diseases in athletes] Russo S, et al. **Minerva Med** 1997 Jun;88(6):265–70 (Eng. Abstr.) **(Ita)**

ECONOMICS

The impact of insurance on access to physician services for elderly people with arthritis. Grana J, et al. **Inquiry** 1996–97 Winter;33(4):326–38
Arthritis and the community [editorial] Muirden KD.
Med J Aust 1997 Apr 7;166(7):344–5

ENZYMOLOGY

Aggrecan is degraded by matrix metalloproteinases in human arthritis. Evidence that matrix metalloproteinase and aggrecanase activities can be independent. Fosang AJ, et al. **J Clin Invest** 1996 Nov 15;98(10):2292–9

EPIDEMIOLOGY

Arthritis and women's health: prevalence, impact, and prevention. Callahan LF, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):401–9 (122 ref.)
The arthritis of coeliac disease: prevalence and pattern in 200 adult patients. Lubrano E, et al. **Br J Rheumatol** 1996 Dec;35(12):1314–8 (32 ref.)
The case-control study and its potential biases [editorial; comment] Yazici H, et al. **Clin Exp Rheumatol** 1996 Jul–Aug;14(4):355–8. Comment on: Clin Exp Rheumatol 1996 Jul–Aug;14(4):407–12.
Epidemiology of HLA-B27 and Arthritis. Khan MA.
Clin Rheumatol 1996 Jan;15 Suppl 1:10–2 (16 ref.)
Arthritis and HIV infection in Kigali, Rwanda, and Paris, France [letter] Blanche P, et al. **J Rheumatol** 1997 Jul; 24(7):1449–50
Characteristics of persons with self-reported arthritis and other rheumatic conditions who do not see a doctor. Rao JK, et al. **J Rheumatol** 1997 Jan;24(1):169–73
Prevalence of leisure-time physical activity among persons with arthritis and other rheumatic conditions—United States, 1990–1991. **MMWR Morb Mortal Wkly Rep** 1997 May 9;46(18):389–93
Arthropathy in Behçet's disease. Kim HA, et al.
Scand J Rheumatol 1997;26(2):125–9
Epidemiology of chronic arthritis in childhood. Oen KG, et al. **Semin Arthritis Rheum** 1996 Dec;26(3):575–91 (78 ref.)

ETHNOLOGY

Spondyloarthropathies in circumpolar populations: II. Characterization of the populations. Boyer GS, et al.
Arctic Med Res 1996 Oct;55(4):195–203
Spondyloarthropathies in circumpolar populations: I. Design and methods of United States and Russian studies. Lawrence RC, et al. **Arctic Med Res** 1996 Oct;55(4):187–94
Migrating monopredominant arthritis in children of Assyrian ancestry [see comments] Miller JJ 3d, et al.
J Rheumatol 1996 Jan;23(1):178–80. Comment in: J Rheumatol 1996 Nov;23(11):2002. Comment in: J Rheumatol 1996 Nov;23(11):2002–3; discussion 2003–4. Comment in: J Rheumatol 1996 Nov;23(11):2004.
Efficacy of the Tibetan treatment for arthritis. Ryan M.
Soc Sci Med 1997 Feb;44(4):535–9
[An epidemiological study of sacroiliitis among the native inhabitants of Chukotka] Erdes Sh, et al. **Ter Arkh** 1997; 69(5):50–4 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Musculoskeletal case of the day. Metastatic carcinomatous arthritis from mucinous adenocarcinoma of the colon. Hatem SF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):286, 291–2
Monarthritis: differential diagnosis. Sack K. **Am J Med** 1997 Jan 27;102(1A):30S–34S (24 ref.)
Arthritis of systemic disease. Totemchokchyakarn K, et al.
Am J Med 1996 Dec;101(6):642–7 (18 ref.)
Pathological case of the month. Childhood sarcoidosis. Shetty AK, et al. **Arch Pediatr Adolesc Med** 1997 Sep; 151(9):955–6
Severe destructive beta 2-microglobulin arthropathy after 28 years of hemodialysis. Appel H, et al.
Arthritis Rheum 1997 Apr;40(4):709
Alpha1-antitrypsin deficiency, arthritis, and pancreatitis: comment on the dermatologic vignette by Shbeeb et al [letter] Rubinstein HM. **Arthritis Rheum** 1997 Sep; 40(9):1732
Subcutaneous fat necrosis and polyarthritis associated with pancreatic disease. Shbeeb MI, et al. **Arthritis Rheum** 1996 Nov;39(11):1922–5
Chronic arthropathy and musculoskeletal symptoms associated with rubella vaccines. A review of 124 claims submitted to the National Vaccine Injury Compensation Program [published erratum appears in Arthritis Rheum 1996 Nov;39(11):1930] Weibel RE, et al.
Arthritis Rheum 1996 Sep;39(9):1529–34
Patients who develop inflammatory polyarthritis (IP) after immunization are clinically indistinguishable from other patients with IP. Harrison BJ, et al. **Br J Rheumatol** 1997 Mar;36(3):366–9
Metastatic breast cancer presenting as fever, rash, and arthritis. Drenth JP, et al. **Cancer** 1995 Apr 1;75(7):1608–11
Arthritis as the presenting symptom of diverticulitis. Schapira D, et al. **Clin Rheumatol** 1997 May;16(3):310–3
Undiagnosed polyarthritis with positive anti-Ro/SSA antibodies following a biliopancreatic bypass for morbid obesity [letter] Zoli A, et al. **Clin Rheumatol** 1996 Sep; 15(5):514–5
Potential infectious agents in the induction of arthritides. Krause A, et al. **Curr Opin Rheumatol** 1996 May;8(3):203–9 (65 ref.)
Familial Jaccoud's arthropathy. Panja M, et al.
Indian Heart J 1996 Jul–Aug;48(4):395–7
Administration of neutralizing antibody against rabbit IL-1 receptor antagonist exacerbates lipopolysaccharide-induced arthritis in rabbits. Fukumoto T, et al. **Inflamm Res** 1996 Sep;45(9):479–85
IL-12 promotes cellular but not humoral type II collagen-specific Th 1-type responses in C57BL/6 and B10.Q mice and fails to induce arthritis. Szeliga J, et al. **Int Immunol** 1996 Aug;8(8):1221–7
The association between arthritis and the weather. Aikman H. **Int J Biometeorol** 1997 Jun;40(4):192–9
Subtalar dislocation. A study of nineteen cases [see comments] Ruiz Valdivieso T, et al. **Int Orthop** 1996; 20(2):83–6. Comment in: Int Orthop 1997;21(2):142.
Inflammatory polyarthropathy and bone remodeling in HTLV-I Tax-transgenic mice. Saggioro D, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1997 Mar 1;14(3):272–80
Joint symptoms after restorative proctocolectomy in ulcerative colitis and familial polyposis coli. Andreyev HJ, et al. **J Clin Gastroenterol** 1996 Jul;23(1):35–9
Studies on the contribution of c-fos/AP-1 to arthritic joint destruction. Shiozawa S, et al. **J Clin Invest** 1997 Mar 15; 99(6):1210–6
Monocytes/macrophages rather than PMN are involved in early cartilage degradation in cationic immune complex arthritis in mice. Van Lent PL, et al. **J Leukoc Biol** 1997 Mar;61(3):267–78
Delayed diagnosis of acute rheumatic fever in adults: a forgotten cause of febrile polyarthritis. Chan AW, et al.
J Rheumatol 1996 Nov;23(11):1999–2001
Arthritis after bacillus Calmette–Guérin therapy [letter; comment] Goupille P, et al. **J Rheumatol** 1996 Aug; 23(8):1481–2. Comment on: J Rheumatol 1995 Oct;22(10):2010.
Reactive arthritis associated with bacillus Calmette–Guérin immunotherapy for carcinoma of the bladder: immune reactivity against mycobacterial antigens [letter] Miossec P. **J Rheumatol** 1996 Aug;23(8):1485
Arthritis and iritis after bacillus Calmette–Guérin therapy [letter; comment] [see comments] Missioux D, et al.
J Rheumatol 1995 Oct;22(10):2010. Comment on: J Rheumatol 1994 Mar;21(3):564–5. Comment in: J Rheumatol 1996 Aug;23(8):1481–2.
Tumoral joint involvement in multiple myeloma and Waldenström's macroglobulinemia—report of 4 cases. Roux S, et al. **J Rheumatol** 1996 Dec;23(12):2175–8
Clavicular fractures and ipsilateral acromioclavicular arthrosis. Edelson JG. **J Shoulder Elbow Surg** 1996 May–Jun;5(3):181–5
Thromboangiitis obliterans with inaugural rheumatic manifestations. A report of three cases [see comments] Lambotte O, et al. **Rev Rhum Engl Ed** 1997 May; 64(5):334–8. Comment in: Rev Rhum Engl Ed 1997 May;64(5):281.
Prevention of antigen-induced arthritis in rats by oral administration of the inducing antigen. Yoshino S.
Scand J Clin Lab Invest 1996 Apr;56(2):111–5
Arthritis susceptibility in mice expressing human type II collagen in cartilage. Malmström V, et al.
Scand J Immunol 1997 Jun;45(6):670–7
Typhoid arthritis in adults [letter] Ahasan HA. **Trop Doct** 1997 Oct;27(4):249–50
[Clinical judgment and decision making in clinical practice. A patient with joint symptoms (letter; comment)] Kamerling RK. **Ned Tijdschr Geneeskd** 1996 Sep 28; 140(39):1968–9. Comment on: Ned Tijdschr Geneeskd 1996 Aug 17;140(33):1675–9. **(Dut)**
[Diagnosis with joint puncture. 5. "Diagnostic strategies in rheumatology"] Keitel W, et al. **Fortschr Med** 1997 Apr 30;115(12):42–5 **(Ger)**
[50-year-old patient with leukocytoclastic vasculitis and arthralgia] Hennecke T, et al. **Internist (Berl)** 1996 Nov; 37(11):1159–62 **(Ger)**
[Joint examination] Krüger K, et al. **Internist (Berl)** 1997 May;38(5):503–11 **(Ger)**
[Painful hip in children—a differentiated view of coxitis fugax] Benthien JP. **Z Orthop Ihre Grenzgeb** 1997 May–Jun; 135(3):Oa7–10 **(Ger)**
[Migrant polyarthritis and EBV infection] Venuta A, et al.
Pediatr Med Chir 1997 Mar–Apr;19(2):135–6 (Eng. Abstr.) **(Ita)**
[Uremic arthritis] Ogawa H, et al.
Ryoikibetsu Shokogun Shirizu 1997;(16 Pt 1):42–7 (20 ref.) **(Jpn)**
[Ochronosis—case report and literature review] Cnota H, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):585–8 (Eng. Abstr.) **(Pol)**
[Diabetic cheiroarthropathy] Bruscas C, et al.
An Med Interna 1996 Jun;13(6):295–8 (38 ref.) (Eng. Abstr.) **(Spa)**
[Chronic monoarthritis caused by a juxta-articular osteoid osteoma of the astragalus (letter)] Insúa Vilariño SA, et al. **An Med Interna** 1995 Aug;12(8):411–2 **(Spa)**
[Polyarthritis associated with myelodysplastic syndromes] Carvajal Méndez I, et al. **Rev Clin Esp** 1996 Aug; 196(8):539–41 (Eng. Abstr.) **(Spa)**

GENETICS

Genetic linkage of familial granulomatous inflammatory arthritis, skin rash, and uveitis to chromosome 16. Tromp G, et al. **Am J Hum Genet** 1996 Nov;59(5):1097–107
Juvenile rheumatoid arthritis-like polyarthritis in chromosome 22q11.2 deletion syndrome (DiGeorge anomalad/velocardiofacial syndrome/conotruncal anomaly face syndrome). Sullivan KE, et al. **Arthritis Rheum** 1997 Mar;40(3):430–6
Collagen-induced arthritis in DBA/1 mice: cytokine gene activation following immunization with type II collagen. Stasiuk LM, et al. **Cell Immunol** 1996 Nov 1;173(2):269–75
A new autosomal dominant disorder of pyogenic sterile arthritis, pyoderma gangrenosum, and acne: PAPA syndrome. Lindor NM, et al. **Mayo Clin Proc** 1997 Jul; 72(7):611–5
HLA-DR genotyping, diagnosis and prognosis of inflammatory arthritis. Roudier J. **Rev Rhum Engl Ed** 1995 Dec;62(11):733–5
Adult seronegative arthritis with antinuclear antibodies: a distinct group of patients with a different immunogenetic pattern from seropositive rheumatoid arthritis and a good outcome. Saudan-Kister A, et al. **Rev Rhum Engl Ed** 1996 May;63(5):313–20
Susceptibility of DA rats to arthritis induced with adjuvant oil or rat collagen is determined by genes both within and outside the major histocompatibility complex. Lorentzen JC, et al. **Scand J Immunol** 1996 Dec;44(6):592–8
Arthritis susceptibility in mice expressing human type II collagen in cartilage. Malmström V, et al.
Scand J Immunol 1997 Jun;45(6):670–7
[Hemochromatosis arthropathy—an early manifestation of genetic hemochromatosis] Gottschalk R, et al.
Z Rheumatol 1997 May–Jun;56(3):156–62 (Eng. Abstr.) **(Ger)**

HISTORY

"Swapping grief": the role of the laity in alternative medical encounters. Clow B. **J Hist Med Allied Sci** 1997 Apr; 52(2):175–201
The arthritis of Frederic E. Church [letter] Cohen PL.
J Rheumatol 1997 Jul;24(7):1453–4
[Fatal edematous polyarthritis] Deblauwe J, et al.
Rev Med Interne 1997;18 Suppl 3:291s–294s **(Fre)**

IMMUNOLOGY

Characterization of the adjuvant effect of IL-12 and efficacy of IL-12 inhibitors in type II collagen-induced arthritis. Germann T, et al. **Ann N Y Acad Sci** 1996 Oct 31; 795:227–40
Quantitation of IL-2Rp75 (CD122) expression on mononuclear cells in rheumatic disease. Creamer P, et al.
Ann Rheum Dis 1996 Nov;55(11):844–7
Complement in acute and chronic arthritides: assessment of C3c, C9, and protectin (CD59) in synovial membrane. Konttinen YT, et al. **Ann Rheum Dis** 1996 Dec; 55(12):888–94
Nerve growth factor (NGF) autoantibodies and NGF in the synovial fluid: implications in spondylarthropathies. Dicou E, et al. **Autoimmunity** 1996;24(1):1–9
Synovial fluid interleukin-8 and neutrophil function in rheumatoid arthritis and seronegative polyarthritis. Troughton PR, et al. **Br J Rheumatol** 1996 Dec; 35(12):1244–51
Clonal anergy is a potent mechanism of oral tolerance in the suppression of acute antigen-induced arthritis in rats by oral administration of the inducing antigen. Inada S, et al. **Cell Immunol** 1997 Jan 10;175(1):67–75
Identification of MHC class II and TCR binding residues in the type II collagen immunodominant determinant mediating collagen-induced arthritis. Rosloniec EF, et al.
Cell Immunol 1996 Aug 25;172(1):21–8
HLA-B27, rheumatoid factor and spondyloarthritis [editorial] Calin A. **Clin Exp Rheumatol** 1997 May–Jun; 15(3):229–31
Antigen-induced (Dumonde Glynn) arthritis in the sheep: a large joint animal model of arthritis. Highton J, et al.
Clin Exp Rheumatol 1997 Jan–Feb;15(1):25–31
Undiagnosed polyarthritis with positive anti-Ro/SSA antibodies following a biliopancreatic bypass for morbid obesity [letter] Zoli A, et al. **Clin Rheumatol** 1996 Sep; 15(5):514–5
Autoimmunity: when self-tolerance breaks down. Mueller DL, et al. **Curr Biol** 1997 Apr 1;7(4):R255–7 (10 ref.)
Presentation of HLA class I-derived peptides: potential involvement in allorecognition and HLA-B27-associated arthritis. Parham P. **Immunol Rev** 1996 Dec;154:137–54 (70 ref.)

Pristane-induced arthritis is CD4+ T-cell dependent. Stasiuk LM, et al. **Immunology** 1997 Jan;90(1):81–6

Cytokine and nitric oxide production in the acute phase of bacterial cell wall-induced arthritis. Fuseler JW, et al. **Inflammation** 1997 Feb;21(1):113–31

Limiting dilution analysis of the frequency of autoreactive lymph node cells isolated from mice with antigen-induced arthritis. Petrow PK, et al. **J Autoimmun** 1996 Oct; 9(5):629–35

Increased incidence of neutralizing autoantibodies against interleukin-1 alpha (IL-1 alpha) in nondestructive chronic polyarthritis. Jouvenne P, et al. **J Clin Immunol** 1996 Sep; 16(5):283–90

Extrathymic differentiation of resident T cells in the joints of mice with collagen-induced arthritis. Arai K, et al. **J Immunol** 1996 Dec 1;157(11):5170–7

Autoantibodies to murine type II collagen in collagen-induced arthritis: a comparison of susceptible and nonsusceptible strains. Brand DD, et al. **J Immunol** 1996 Dec 1;157(11):5178–84

Reduced susceptibility to collagen-induced arthritis in mice deficient in intercellular adhesion molecule-1. Bullard DC, et al. **J Immunol** 1996 Oct 1;157(7):3153–8

High susceptibility to collagen-induced arthritis in mice lacking IFN-gamma receptors. Manoury-Schwartz B, et al. **J Immunol** 1997 Jun 1;158(11):5501–6

Macrophage migration inhibitory factor is involved in the pathogenesis of collagen type II-induced arthritis in mice. Mikulowska A, et al. **J Immunol** 1997 Jun 1;158(11):5514–7

Induction of a proinflammatory cytokine network by Mycoplasma arthritidis-derived superantigen (MAS). Rink L, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):861–8

Arthritis associated with circulating immune complexes following administration of intravenous immunoglobulin therapy in a patient with chronic inflammatory demyelinating polyneuropathy. Lisak RP. **J Neurol Sci** 1996 Jan;135(1):85–8

Effects of psychological stress on joint inflammation and adrenal function during induction of arthritis in the Lewis rat. Miller SC, et al. **Neuroimmunomodulation** 1995 Nov-Dec;2(6):329–38

Inflammatory joint disease after immunizations. A report of two cases. Ferrazzi V, et al. **Rev Rhum Engl Ed** 1997 Apr; 64(4):227–32 (34 ref.)

Adult seronegative arthritis with antinuclear antibodies: a distinct group of patients with a different immunogenetic pattern from seropositive rheumatoid arthritis and a good outcome. Saudan-Kister A, et al. **Rev Rhum Engl Ed** 1996 May;63(5):313–20

Role of superantigens in experimental arthritis. Abdelnour A, et al. **Springer Semin Immunopathol** 1996;17(4):363–73 (69 ref.)

[Immunoactive peptides in chronic polyarthritis] **Internist (Berl)** 1994 Mar;35(3 Suppl):1–8 **(Ger)**

[Immunologic reaction in patients with arthritis in the course of borreliosis with Lyme disease] Flisiak R, et al. **Przegl Epidemiol** 1996;50(3):253–7 (Eng. Abstr.) **(Pol)**

METABOLISM

Case report: arthropathy as the presenting symptom in hereditary hemochromatosis. Tanglao EC, et al. **Am J Med Sci** 1996 Dec;312(6):306–9

Nitric oxide production during adjuvant-induced and collagen-induced arthritis. Cannon GW, et al. **Arthritis Rheum** 1996 Oct;39(10):1677–84

Monitoring collagen degradation in patients with arthritis. The search for suitable surrogates. Greenwald RA. **Arthritis Rheum** 1996 Sep;39(9):1455–65 (79 ref.)

CR1, CD35 in synovial fluid from patients with inflammatory joint diseases. Sadallah S, et al. **Arthritis Rheum** 1997 Mar; 40(3):520–6

Inflammatory joint disease: the role of cytokines, cyclooxygenases and reactive oxygen species. Moulton PJ. **Br J Biomed Sci** 1996 Dec;53(4):317–24 (133 ref.)

Suppression of inflammatory arthritis by simultaneous inhibition of nitric oxide synthase and NADPH oxidase. Miesel R, et al. **Free Radic Biol Med** 1996;20(1):75–81

Cytokine and nitric oxide production in the acute phase of bacterial cell wall-induced arthritis. Fuseler JW, et al. **Inflammation** 1997 Feb;21(1):113–31

PAF modulates eicosanoids and TNF release in immune-complex arthritis in rats. Rocha FA, et al. **J Lipid Mediat Cell Signal** 1997 May;16(1):1–10

Pharmacological profile of SB 203580, a selective inhibitor of cytokine suppressive binding protein/p38 kinase, in animal models of arthritis, bone resorption, endotoxin shock and immune function. Badger AM, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1453–61

The serine proteinase inhibitor antileukoproteinase specifically accumulates in normal but not in arthritic cartilage. Burkhardt H, et al. **J Rheumatol** 1997 Jun; 24(6):1145–54

The contribution of quantitative confocal laser scanning microscopy in cartilage research: chondrocyte insulin-like growth factor-1 receptors in health and pathology. Verschure PJ, et al. **Microsc Res Tech** 1997 May 15; 37(4):285–98 (65 ref.)

Characterization of time course of spinal amino acids, citrulline and PGE2 release after carrageenan/kaolin-induced knee joint inflammation: a chronic microdialysis study. Yang LC, et al. **Pain** 1996 Oct; 67(2-3):345–54

Expression of basic fibroblast growth factor and angiogenin in arthritis. Hosaka S, et al. **Pathobiology** 1995;63(5):249–56

TSG-6, a glycoprotein associated with arthritis, and its ligand hyaluronan exert opposite effects in a murine model of inflammation. Wisniewski HG, et al. **Pflugers Arch** 1996; 431(6 Suppl 2):R225–6

Activation of the kallikrein-kinin system in arthritis and enterocolitis in genetically susceptible rats: modulation by a selective plasma kallikrein inhibitor. Colman RW, et al. **Proc Assoc Am Physicians** 1997 Jan;109(1):10–22

Quantification of mRNA levels in joint capsule and articular cartilage of the murine knee joint by RT-PCR: kinetics of stromelysin and IL-1 mRNA levels during arthritis. Van Meurs JB, et al. **Rheumatol Int** 1997;16(5):197–205

[Practical significance of cytokine determination in joint fluid in patients with arthroses or rheumatoid arthritis] Neidel J, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul-Aug;134(4):381–5 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Septic arthritis due to local spread of necrotizing fasciitis caused by Streptococcus pyogenes [letter] González-Ruiz A, et al. **Clin Infect Dis** 1996 Feb;22(2):394

Septic bone and joint infections. Hedström SA. **Curr Opin Rheumatol** 1996 Jul;8(4):322–6 (14 ref.)

Unusual features of osteoarticular tuberculosis in children. Zahraa J, et al. **J Pediatr** 1996 Oct;129(4):597–602

Microbial DNA in the synovium--a role in aetiology or a mere bystander? [comment] [see comments] Kingsley G. **Lancet** 1997 Apr 12;349(9058):1038–9. Comment on: Lancet 1997 Apr 12;349(9058):1063–5. Comment in: Lancet 1997 Jul 12;350(9071):145.

Propionibacterium avidum sacroiliitis and osteomyelitis. Estoppey O, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):54–6

Mycoplasmas and arthritides. Schaeverbeke T, et al. **Rev Rhum Engl Ed** 1997 Feb;64(2):120–8 (92 ref.)

PARASITOLOGY

Polyarthritis caused by Leishmania in a patient with AIDS. Perelló-Roso A, et al. **Clin Infect Dis** 1996 Jun;22(6):1113–4

PATHOLOGY

Incidence and distribution of scaphotrapezotrapezoidal arthritis in 73 fresh cadaveric wrists. Bhatia A, et al. **Ann Chir Main Memb Super** 1996;15(4):220–5

Mapping abnormal synovial vascular permeability in temporomandibular joint arthritis in the rabbit using MRI. Demsar F, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:23–5

Survey of gastrointestinal reactions to foods in adults in relation to atopy, presence of mucus in the stools, swelling of joints and arthralgia in patients with gastrointestinal reactions to foods. Bengtsson U, et al. **Clin Exp Allergy** 1996 Dec;26(12):1387–94

Cyclosporine A shows immunosuppressor activity on T lymphocytes from the peripheral blood and synovial fluid of patients with autoimmune arthritis. Guillen C, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):145–53

Lessons for joint destruction from animal models. van den Berg WB. **Curr Opin Rheumatol** 1997 May;9(3):221–8 (71 ref.)

Quinolone arthropathy in immature rabbits treated with the fluoroquinolone, PD 117596. Gough A, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):225–32

Degradation of articular cartilage during the progression of antigen-induced arthritis in mice. A scanning and transmission electron microscopic study. Henzgen S, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):255–63

Increased incidence of neutralizing autoantibodies against interleukin-1 alpha (IL-1 alpha) in nondestructive chronic polyarthritis. Jouvenne P, et al. **J Clin Immunol** 1996 Sep; 16(5):283–90

Aggrecan is degraded by matrix metalloproteinases in human arthritis. Evidence that matrix metalloproteinase and aggrecanase activities can be independent. Fosang AJ, et al. **J Clin Invest** 1996 Nov 15;98(10):2292–9

Studies on the contribution of c-fos/AP-1 to arthritic joint destruction. Shiozawa S, et al. **J Clin Invest** 1997 Mar 15; 99(6):1210–6

Extrathymic differentiation of resident T cells in the joints of mice with collagen-induced arthritis. Arai K, et al. **J Immunol** 1996 Dec 1;157(11):5170–7

Bone marrow stromal cells contribute to synovial cell proliferation in rats with collagen induced arthritis. Nakagawa S, et al. **J Rheumatol** 1996 Dec;23(12):2098–103

The contribution of quantitative confocal laser scanning microscopy in cartilage research: chondrocyte insulin-like growth factor-1 receptors in health and pathology. Verschure PJ, et al. **Microsc Res Tech** 1997 May 15; 37(4):285–98 (65 ref.)

Expression of basic fibroblast growth factor and angiogenin in arthritis. Hosaka S, et al. **Pathobiology** 1995;63(5):249–56

PHYSIOPATHOLOGY

Dynamic situation experienced in vivo under the influence of active muscle contraction and relaxation of viable soft tissue [letter; comment] Pellegrini VD Jr. **Am J Orthop** 1996 Oct;25(10):730. Comment on: Am J Orthop 1996 Jun;25(6):429–36.

Peripheral and spinal actions of opioids in the blockade of the autonomic response evoked by compression of the inflamed knee joint. Nagasaka H, et al. **Anesthesiology** 1996 Oct;85(4):808–16

Phagocytic lining cells determine local expression of inflammation in type II collagen-induced arthritis. van Lent PL, et al. **Arthritis Rheum** 1996 Sep;39(9):1545–55

Differential roles of neurokinin 1 and neurokinin 2 receptors in the development and maintenance of heat hyperalgesia induced by acute inflammation. Sluka KA, et al. **Br J Pharmacol** 1997 Apr;120(7):1263–73

Changes in nociceptive reflex facilitation during carrageenan-induced arthritis. Herrero JF, et al. **Brain Res** 1996 Apr 22;717(1-2):62–8

Impaired incentive learning in treated Parkinson's disease. Charbonneau D, et al. **Can J Neurol Sci** 1996 Nov; 23(4):271–8

The natural course of arthrosis of the knee. Sahlström A, et al. **Clin Orthop** 1997 Jul;(340):152–7

Adhesion molecule expression and complement activation in vessel walls in synovial tissue from patients with chronic inflammatory joint disease. Mellbye OJ, et al. **Clin Rheumatol** 1996 Sep;15(5):441–7

The development of the Pain Management Inventory for patients with arthritis. Davis GC, et al. **J Adv Nurs** 1996 Aug;24(2):236–43

Reflex responses of the masseter muscle in patients with chronic arthritis or internal derangement of the temporomandibular joint. A comparison with symptomfree subjects. Bjørnland T, et al. **J Oral Rehabil** 1996 Dec; 23(12):805–10

Cognitive behavioral control of arthritis pain. Keefe FJ, et al. **Med Clin North Am** 1997 Jan;81(1):277–90 (38 ref.)

Blockade of joint inflammation and secondary hyperalgesia by L-NAME, a nitric oxide synthase inhibitor. Lawand NB, et al. **Neuroreport** 1997 Mar 3;8(4):895–9

Sensitisation of articular afferents in normal and inflamed knee joints by substance P in the rat. Heppelmann B, et al. **Neurosci Lett** 1997 Feb 21;223(2):97–100

Pain and synovial fluid concentration of serotonin in arthritic temporomandibular joints. Alstergren P, et al. **Pain** 1997 Aug;72(1-2):137–43

Sodium urate arthritis: effects on the sensory properties of articular afferents in the chicken. Gentle MJ. **Pain** 1997 Apr;70(2-3):245–51

Recreational exercise in arthritis. Minor MA, et al. **Rheum Dis Clin North Am** 1996 Aug;22(3):563–77 (51 ref.)

Folate and homocysteine status and haemolysis in patients treated with sulphasalazine for arthritis. Krogh Jensen M, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):421–9

[Current knowledge in the etiology of arthritis] Häuselmann HJ. **Ther Umsch** 1996 Oct;53(10):727–31 (Eng. Abstr.) **(Ger)**

[Production of IL-1 ra and its biological significance in experimental arthritis of rabbits] Matsukawa A, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 Nov;70(11):751–8 (11 ref.) **(Jpn)**

PREVENTION & CONTROL

Interleukin-6 reduces cartilage destruction during experimental arthritis. A study in interleukin-6-deficient mice. van de Loo FA, et al. **Am J Pathol** 1997 Jul; 151(1):177–91

Clonal anergy is a potent mechanism of oral tolerance in the suppression of acute antigen-induced arthritis in rats by oral administration of the inducing antigen. Inada S, et al. **Cell Immunol** 1997 Jan 10;175(1):67–75

Anti-CD8 treatment reduces the severity of inflammatory arthritis, but not vasculitis, in mercuric chloride-induced autoimmunity. Kiely PD, et al. **Clin Exp Immunol** 1996 Nov;106(2):280–5

Amelioration of collagen II-induced arthritis in rats by the type IV phosphodiesterase inhibitor Rolipram. Nyman U, et al. **Clin Exp Immunol** 1997 Jun;108(3):415–9

Suppression of murine collagen-induced arthritis by nasal administration of collagen. Myers LK, et al. **Immunology** 1997 Feb;90(2):161–4

Attenuation of collagen-induced arthritis in 55-kDa TNF receptor type 1 (TNFR1)-IgG1-treated and TNFR1-deficient mice. Mori L, et al. **J Immunol** 1996 Oct 1;157(7):3178–82

Amelioration of type II collagen induced arthritis in rats by treatment with thymulin. Aono H, et al. **J Rheumatol** 1997 Aug;24(8):1564–9

Prevention of antigen-induced arthritis in rats by oral administration of the inducing antigen. Yoshino S. **Scand J Clin Lab Invest** 1996 Apr;56(2):111–5

[Inhibitory effects of portal venous injection of type II collagen in collagen-induced arthritis] Ogasawara H, et al. **Nippon Ika Daigaku Zasshi** 1997 Jun;64(3):220–4 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Re: Quality of life measures [letter; comment] Hurst NP. **Br J Rheumatol** 1997 Jan;36(1):147–8. Comment on: Br J Rheumatol 1996 Mar;35(3):275–81.

The pattern of change in leisure activity behavior among older adults with arthritis. Zimmer Z, et al. **Gerontologist** 1997 Jun;37(3):384–92

Patient education in arthritis: randomized controlled trial of a mail-delivered program. Fries JF, et al. **J Rheumatol** 1997 Jul;24(7):1378–83

Measures of physical function and emotional well being for

young adults with arthritis. Taal E, et al. **J Rheumatol** 1997 May;24(5):994–7

RADIOGRAPHY

Angular configuration of the knee. Comparison of conventional measurements and the QUESTOR Precision Radiography system. Sanfridsson J, et al. **Acta Radiol** 1996 Sep;37(5):633–8

Do gold rings protect against articular erosion in rheumatoid arthritis? Mulherin DM, et al. **Ann Rheum Dis** 1997 Aug; 56(8):497–9

Clinico-radiological correlation of enthesitis in seronegative spondyloarthropathies (SNSA). Secundini R, et al. **Clin Rheumatol** 1997 Mar;16(2):129–32

Hemochromatosis arthropathy. Neumann DP. **Conn Med** 1996 Aug;60(8):465–7

Basic differential diagnosis of arthritis. Watt I. **Eur Radiol** 1997;7(3):344–51 (19 ref.)

Diaphysitis in tumoral calcinosis syndrome. Ballina-García FJ, et al. **J Rheumatol** 1996 Dec;23(12):2148–51

The radiology of early arthritis. Rubin DA. **Semin Roentgenol** 1996 Jul;31(3):185–97 (81 ref.)

Radiologic manifestations of the crystal-related arthropathies. Uri DS, et al. **Semin Roentgenol** 1996 Jul; 31(3):229–38 (52 ref.)

[CT-backed injection therapy in lumbago, lumbal radicular syndrome and various forms of arthritis] **Orthopade** 1994 Nov;23(6 Suppl):1–4 **(Ger)**

RADIONUCLIDE IMAGING

Macrophage targeting with 99mTc-labelled J001 for scintigraphy of joint inflammation in ovalbumin-induced arthritis in rabbits. Goupille P, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):269–74

Evaluation of infections of the locomotor system with indium-111-labeled human IgG scintigraphy. Nijhof MW, et al. **J Nucl Med** 1997 Aug;38(8):1300–5

Evaluation of disease activity in rheumatoid arthritis and other arthritides using 99mTechnetium labeled nonspecific human immunoglobulin. Boerbooms AM, et al. **J Rheumatol** 1996 Feb;23(2):405

The influence of two bone agents (99Tcm-pyrophosphate and 99Tcm-methylenediphosphonate) on quantitative sacroiliac joint scintigraphy [see comments] Lin WY, et al. **Nucl Med Commun** 1996 Dec;17(12):1035–8. Comment in: Nucl Med Commun 1997 May;18(5):497.

REHABILITATION

Interventions to reduce the impact of chronic disease: community-based arthritis patient education. Goeppinger J, et al. **Annu Rev Nurs Res** 1997;15:101–22 (63 ref.)

Bipolar hip arthroplasty in ankylosing spondylitis. Bhan S, et al. **Arch Orthop Trauma Surg** 1996;115(2):94–9

Addressing work disability through vocational rehabilitation services. Straaton KV, et al. **Bull Rheum Dis** 1997 May; 46(3):1–3

Rehabilitation advances in the treatment of arthritis and musculoskeletal disease. Hudgins TH, et al. **Curr Opin Rheumatol** 1997 Mar;9(2):112–7 (30 ref.)

A community-oriented programme for rehabilitation of persons with arthritis. Ronen R, et al. **Disabil Rehabil** 1996 Sep;18(9):476–81

What happens to patients awaiting arthritis surgery? Roy CW, et al. **Disabil Rehabil** 1996 Feb;18(2):101–5

Pain in arthritis and musculoskeletal disorders: the role of coping skills training and exercise interventions. Keefe FJ, et al. **J Orthop Sports Phys Ther** 1996 Oct;24(4):279–90 (43 ref.)

Reliability, validity, and sensitivity of a Swedish version of the revised and expanded Arthritis Impact Measurement Scales (AIMS2). Archenholtz B, et al. **J Rheumatol** 1997 Jul;24(7):1370–7

Measures of physical function and emotional well being for young adults with arthritis. Taal E, et al. **J Rheumatol** 1997 May;24(5):994–7

[The treatment of gonarthrosis by local vacuum compression in combination with carbon dioxide (a clinical and rheovasothermmal assessment)] Kosoverov EO, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):132–4 **(Rus)**

[New methodological aspects in the use of cryotherapy, ultrasound, magnetotherapy and therapeutic physical exercise in the rehabilitation of gonarthrosis patients] Grigor'eva VD, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar-Apr; (2):26–8 (Eng. Abstr.) **(Rus)**

SURGERY

Contemporary trends in orthopaedics of the hip joint. 3. Steel's triple pelvic osteotomy in the treatment of arthritis of the hip joint in dysplasia of the acetabulum. Rejholec M. **Acta Univ Carol [Med] (Praha)** 1992;38(1-4):35–47

Dynamic situation experienced in vivo under the influence of active muscle contraction and relaxation of viable soft tissue [letter; comment] Pellegrini VD Jr. **Am J Orthop** 1996 Oct;25(10):730. Comment on: Am J Orthop 1996 Jun;25(6):429–36.

A five to seven years follow-up of 102 cementless Synatomic knee arthroplasties. Rinta-Kiikka I, et al. **Ann Chir Gynaecol** 1996;85(1):77–85

Bipolar hip arthroplasty in ankylosing spondylitis. Bhan S, et al. **Arch Orthop Trauma Surg** 1996;115(2):94–9

Stabilization of high tibial osteotomy with staples. Zuegel NP, et al. **Arch Orthop Trauma Surg** 1996;115(5):290–4

Ankle arthrodesis using an arthroscopic method: long-term follow-up of 34 cases. Glick JM, et al. **Arthroscopy** 1996 Aug;12(4):428–34

Arthroscopic management of trapeziometacarpal joint arthritis of the thumb. Menon J. **Arthroscopy** 1996 Oct; 12(5):581–7

Trochanteric osteotomy and wire fixation: a comparison of 2 techniques. Nercessian OA, et al. **Clin Orthop** 1996 Dec; (333):208–16

Current status of metacarpophalangeal arthroplasty and basilar joint arthroplasty of the thumb. Murray PM. **Clin Plast Surg** 1996 Jul;23(3):395–406 (73 ref.)

What happens to patients awaiting arthritis surgery? Roy CW, et al. **Disabil Rehabil** 1996 Feb;18(2):101–5

Surgery of systemic lupus erythematosus arthritis of the hand. Nalebuff EA. **Hand Clin** 1996 Aug;12(3):591–602 (23 ref.)

Unicompartmental knee arthroplasty with patelloplasty. Antoniou J, et al. **Int Orthop** 1996;20(2):94–9

Results of different surgical procedures on total knee arthroplasty infections. Wasielewski RC, et al. **J Arthroplasty** 1996 Dec;11(8):931–8

Extensor carpi radialis longus tendon arthroplasty in the treatment of primary trapeziometacarpal arthrosis. Atroshi I, et al. **J Hand Surg [Am]** 1997 May;22(3):419–27

The pronator quadratus interposition transfer: an adjunct to resection arthroplasty of the distal radioulnar joint. Ruby LK, et al. **J Hand Surg [Am]** 1996 Jan;21(1):60–5

Wrist arthrodesis using a dynamic compression plate. Sagerman SD, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):437–41

Modular shoulder arthroplasty. Gartsman GM, et al. **J Shoulder Elbow Surg** 1997 Jul-Aug;6(4):333–9

Hemiarthroplasty in rotator cuff-deficient shoulders. Williams GR Jr, et al. **J Shoulder Elbow Surg** 1996 Sep-Oct; 5(5):362–7

Open wedge high tibial osteotomy using fractioned drill osteotomy: a surgical modification that lowers the complication rate. Flierl S, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(3):149–53

Treatment of inflammatory arthritis by synovial ablation: a comparison of the holmium: YAG laser, electrocautery, and mechanical ablation in a rabbit model. Soffa AJ, et al. **Lasers Surg Med** 1996;19(2):143–51

Knee challenges: what would you do? Booth RE Jr, et al. **Orthopedics** 1997 Sep;20(9):875–80

[Complete elbow prosthesis for inflammatory and hemophiliac arthropathy. A retrospective analysis of 22 cases] Chantelot C, et al. **Ann Chir Main Memb Super** 1997; 16(1):49–57 (Eng. Abstr.) **(Fre)**

THERAPY

Acute monoarthritis: a practical approach to assessment and treatment. Towheed TE, et al. **Am Fam Physician** 1996 Nov 15;54(7):2239–43 (9 ref.)

Management of childhood arthritis. Part 1: Acute arthritis. Malleson PN. **Arch Dis Child** 1997 May;76(5):460–2 (19 ref.)

Patient education: essential to good health care for patients with chronic arthritis [editorial; comment] Holman HR, et al. **Arthritis Rheum** 1997 Aug;40(8):1371–3. Comment on: Arthritis Rheum 1997 Aug;40(8):1466–74.

Therapeutic effects of antibodies against adhesion molecules in murine collagen type II-induced arthritis. Zeidler A, et al. **Autoimmunity** 1995;21(4):245–52

Effect of a proprietary herbal medicine on the relief of chronic arthritic pain: a double-blind study. Mills SY, et al. **Br J Rheumatol** 1996 Sep;35(9):874–8

Protective and arthritis-resolving activity in sera of mice infected with Borrelia burgdorferi. Barthold SW, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S9–17

Use of complementary therapies by individuals with 'arthritis'. Resch KL, et al. **Clin Rheumatol** 1997 Jun; 16(4):391–5

Cartilage as a target organ in arthritis: new approaches. Rothschild BM. **Compr Ther** 1996 Nov;22(11):727–30 (18 ref.)

Treatment of experimental inflammatory synovitis with continuous magnetic field. Weinberger A, et al. **Isr J Med Sci** 1996 Dec;32(12):1197–201

Do complementary practitioners have a better bedside manner than physicians? [letter] Ernst E, et al. **J R Soc Med** 1997 Feb;90(2):118–9

Implications of OMERACT outcomes in arthritis and osteoporosis for cochrane metaanalysis. Cranney A, et al. **J Rheumatol** 1997 Jun;24(6):1206–7

Characteristics of persons with self-reported arthritis and other rheumatic conditions who do not see a doctor. Rao JK, et al. **J Rheumatol** 1997 Jan;24(1):169–73

Arthritis patient as an emergency case at a university hospital. Sharma M, et al. **Scand J Rheumatol** 1997;26(1):30–6

Efficacy of the Tibetan treatment for arthritis. Ryan M. **Soc Sci Med** 1997 Feb;44(4):535–9

ULTRASONOGRAPHY

Diagnosis and treatment of heel pain in chronic inflammatory arthritis using ultrasound. Cunnane G, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):383–9

[Ultrasound diagnosis of rheumatic/inflammatory joint diseases] Manger B, et al. **Z Arztl Fortbild Qualitatssich** 1997 Jul;91(4):341–5 (12 ref.) (Eng. Abstr.) **(Ger)**

VETERINARY

Distribution of arthritis and osteomyelitis in turkeys with green liver discoloration. Mutalib A, et al. **Avian Dis** 1996 Jul-Sep;40(3):661–4

Arthrosonography--the use of diagnostic ultrasound in septic and traumatic arthritis in cattle—a retrospective study of 25 patients. Kofler J. **Br Vet J** 1996 Nov;152(6):683–98

Systemic lupus erythematosus and bone marrow necrosis in a dog. Felchle LM, et al. **Can Vet J** 1996 Dec;37(12):742–4

Sporadic bovine leukosis associated with ataxia and tibiotarsal joint swelling: a case report. Oliver-Espinosa O, et al. **Can Vet J** 1994 Dec;35(12):777–9

Naturally occurring inflammatory arthritis of the spondyloarthropathy variety in Cayo Santiago rhesus macaques (Macaca mulatta). Rothschild BM, et al. **Clin Exp Rheumatol** 1997 Jan-Feb;15(1):45–51

Making NO bones about it [editorial; comment] Flower RJ. **Equine Vet J** 1997 Mar;29(2):86–7. Comment on: Equine Vet J 1997 Mar;29(2):98–102.

Destructive polyarthritis in a dog with leishmaniasis. Wolschrijn CF, et al. **J Small Anim Pract** 1996 Dec; 37(12):601–3

Computed tomography and treatment of chronic temporomandibular joint arthritis in a sheep. A case study. Warmerdam EP, et al. **Vet Q** 1996;18 Suppl 2:S94–6

The effect of arthritis in the carpal joint on performance in Norwegian cold-blooded trotters. Dolvik NI, et al. **Vet Res Commun** 1996;20(6):505–12

VIROLOGY

A case of parvovirus-B19 adult acute arthritis with some allergic disease clinical features. Biasi D, et al. **Clin Rheumatol** 1996 Sep;15(5):508–10

Arthritis and HIV infection in Kigali, Rwanda, and Paris, France [letter] Blanche P, et al. **J Rheumatol** 1997 Jul; 24(7):1449–50

[Pathomechanism of HTLV-I associated arthropathy and the role of tax gene] Hasunuma T. **Nippon Rinsho** 1997 Jun; 55(6):1482–5 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Seroprevalence of B19 parvovirus infection in patients with acute polyarthritis] Campoy Reolid E, et al. **Rev Clin Esp** 1996 Dec;196(12):828–30 (Eng. Abstr.) **(Spa)**

ARTHRITIS, ADJUVANT

BLOOD

Twenty-four-hour rhythms of serum ACTH, prolactin, growth hormone, and thyroid-stimulating hormone, and of median-eminence norepinephrine, dopamine, and serotonin, in rats injected with Freund's adjuvant. Selgas L, et al. **Chronobiol Int** 1997 May;14(3):253–65

Presence of an acidic glycoprotein in the serum of arthritic rats: modulation by capsaicin and curcumin. Joe B, et al. **Mol Cell Biochem** 1997 Apr;169(1-2):125–34

CHEMICALLY INDUCED

Pristane-induced arthritis in rats: a new model for rheumatoid arthritis with a chronic disease course influenced by both major histocompatibility complex and non-major histocompatibility complex genes. Vingsbo C, et al. **Am J Pathol** 1996 Nov;149(5):1675–83

Collagen-induced arthritis in mice: synergistic effect of E. coli lipopolysaccharide bypasses epitope specificity in the induction of arthritis with monoclonal antibodies to type II collagen. Terato K, et al. **Autoimmunity** 1995; 22(3):137–47

Adoptive transfer of susceptibility to antigen-induced arthritis into severe combined immunodeficient (SCID) mice: role of CD4+ and CD8+ T cells. Petrow PK, et al. **Immunol Invest** 1996 Jul;25(4):341–53

The analgesic drug buprenorphine inhibits osteoclastic bone resorption in vitro, but is proinflammatory in rat adjuvant arthritis. Hall TJ, et al. **Inflamm Res** 1996 Jun;45(6):299–302

COMPLICATIONS

Ultrasonic vocalization (22–28 kHz) in a model of chronic pain, the arthritic rat: effects of analgesic drugs. Calvino B, et al. **Neuroreport** 1996 Jan 31;7(2):581–4

DIAGNOSIS

Diagnosis of quinolone-induced arthropathy in juvenile dogs by use of magnetic resonance (MR) imaging. Yabe K, et al. **J Vet Med Sci** 1997 Jul;59(7):597–9

DRUG THERAPY

Suppression of type II collagen-induced arthritis by the endogenous estrogen metabolite 2-methoxyestradiol. Josefsson E, et al. **Arthritis Rheum** 1997 Jan;40(1):154–63

Reduction in the incidence and severity of collagen-induced arthritis in DBA/1 mice, using exogenous dehydroepiandrosterone. Williams PJ, et al. **Arthritis Rheum** 1997 May;40(5):907–11

Inhibitory effects of traditional Chinese medicine Shimotsu-to and its included crude fractions on adjuvant-induced chronic inflammation of mice. Kojima

S, et al. **Biol Pharm Bull** 1996 Jan;19(1):47–52
Synthesis and biological evaluation of orally active matrix metalloproteinase inhibitors. Hirayama R, et al. **Bioorg Med Chem** 1997 Apr;5(4):765–78
Methotrexate maintains bone mass by preventing both a decrease in bone formation and an increase in bone resorption in adjuvant-induced arthritic rats. Segawa Y, et al. **Bone** 1997 May;20(5):457–64
Contrast between effects of aminobisphosphonates and non-aminobisphosphonates on collagen-induced arthritis in mice. Nakamura M, et al. **Br J Pharmacol** 1996 Sep; 119(2):205–12
The site of anti-arthritic action of the kappa-opioid, U-50, 488H, in adjuvant arthritis: importance of local administration. Wilson JL, et al. **Br J Pharmacol** 1996 Aug; 118(7):1754–60
Comparison of the effects of tenoxicam and mid-laser irradiation on chronic adjuvant arthritis in rats. Ulugöl A, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):83–6
Pharmacological profile of KE-758, the main metabolite of the antirheumatic agent KE-298. Yasuda Y, et al. **Drugs Exp Clin Res** 1996;22(1):1–8
The therapeutic effect of a combination of cofpropamine, a caffeine derivative, and cyclophosphamide on the development of adjuvant arthritis of rats and collagen arthritis of mice. Kröger H, et al. **Gen Pharmacol** 1996 Oct;27(7):1215–8
Effect of the milk extract of Semecarpus anacardium nut on adjuvant arthritis--a dose-dependent study in Wistar albino rats. Vijayalakshmi T, et al. **Gen Pharmacol** 1996 Oct;27(7):1223–6
Nitric oxide synthase inhibitor influences prostaglandin and interleukin-1 production in experimental arthritic joints. de Mello SB, et al. **Inflamm Res** 1997 Feb;46(2):72–7
Anti-arthritic activity of hydroxamic acid-based pseudopeptide inhibitors of matrix metalloproteinases and TNF alpha processing. DiMartino M, et al. **Inflamm Res** 1997 Jun;46(6):211–5
Analgesic activity of the novel COX-2 preferring NSAID, meloxicam in mono-arthritic rats: central and peripheral components. Laird JM, et al. **Inflamm Res** 1997 Jun; 46(6):203–10
A comparison of clodronate and indomethacin in the treatment of adjuvant arthritis. Osterman T, et al. **Inflamm Res** 1997 Mar;46(3):79–85
Chronic Trypanosoma cruzi infection in the rat: cyclophosphamide-induced recovery of adjuvant arthritis correlates with changes in the levels of lymph node T-lymphocytes and class II+ cells. Didoli G, et al. **Int J Immunopharmacol** 1996 Feb;18(2):127–33
Amelioration of rat experimental arthritides by treatment with the alkaloid sinomenine. Liu L, et al. **Int J Immunopharmacol** 1996 Oct;18(10):529–43
Anti-inflammatory and antiulcer activity of Teucrium buxifolium. Fernández Puntero B, et al. **J Ethnopharmacol** 1997 Jan;55(2):93–8
Stabilized analogs of thymopentin. 3. Evaluation of ketomethylene pseudopeptides for antiarthritic properties. Smith RL, et al. **J Med Chem** 1997 Jul 18;40(15):2407–11
Low-dose pulse methotrexate inhibits articular destruction of adjuvant arthritis in rats. Kawai S, et al. **J Pharm Pharmacol** 1997 Feb;49(2):213–5
Suppression of adjuvant arthritis in rats by oral administration of type II collagen in combination with type I interferon. Yoshino S. **J Pharm Pharmacol** 1996 Jul;48(7):702–5
Slow-release clodronate in prevention of inflammation and bone loss associated with adjuvant arthritis. Osterman T, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1001–7
Outcome of specific COX-2 inhibition in rheumatoid arthritis. Lipsky PE, et al. **J Rheumatol** 1997 Jul;24 Suppl 49:9–14 (21 ref.)
A single capsaicin injection partially depletes neuropeptides but does not ameliorate inflammation severity in established feline antigen induced arthritis. Marshall KW, et al. **J Rheumatol** 1997 Sep;24(9):1765–8
Comparison of the nitric oxide synthase inhibitors methylarginine and aminoguanidine as prophylactic and therapeutic agents in rat adjuvant arthritis. Stefanovic-Racic M, et al. **J Rheumatol** 1995 Oct; 22(10):1922–8
Effect of FR133605, a novel cytokine suppressive agent, on bone and cartilage destruction in adjuvant arthritic rats. Yamamoto N, et al. **J Rheumatol** 1996 Oct;23(10):1778–83
Administration of systemic matrix metalloproteinase inhibitors maintains bone mechanical integrity in adjuvant arthritis. Zernicke RF, et al. **J Rheumatol** 1997 Jul; 24(7):1324–31
Effects of the combined oral administration of NSAIDs and dextromethorphan on behavioral symptoms indicative of arthritic pain in rats. Price DD, et al. **Pain** 1996 Nov; 68(1):119–27
Effect of KE-298 on experimental arthritis in mice. Nagai H, et al. **Pharmacology** 1996 Sep;53(3):190–6
Interleukin-10 suppresses the development of collagen type II-induced arthritis and ameliorates sustained arthritis in rats. Persson S, et al. **Scand J Immunol** 1996 Dec; 44(6):607–14

ENZYMOLOGY

Evidence for activation of cyclooxygenase-1/-2 by endogenous nitric oxide in adjuvant arthritic Lewis rats. Thierse HJ, et al. **Adv Exp Med Biol** 1996;416:343–8

EPIDEMIOLOGY

Reduction in the incidence and severity of collagen-induced arthritis in DBA/1 mice, using exogenous dehydroepiandrosterone. Williams PJ, et al. **Arthritis Rheum** 1997 May;40(5):907–11
Reduced incidence and severity of collagen-induced arthritis in interleukin-12-deficient mice. McIntyre KW, et al. **Eur J Immunol** 1996 Dec;26(12):2933–8

ETIOLOGY

Collagen-induced arthritis in mice: synergistic effect of E. coli lipopolysaccharide bypasses epitope specificity in the induction of arthritis with monoclonal antibodies to type II collagen. Terato K, et al. **Autoimmunity** 1995; 22(3):137–47
Staphylococcal enterotoxin B induces arthritis in female DBA/1 mice but fails to induce activation of type II collagen-reactive lymphocytes. Omata S, et al. **Cell Immunol** 1997 Aug 1;179(2):138–45
Prevention of collagen-induced arthritis (CIA) by treatment with polyethylene glycol-conjugated type II collagen; distinct tolerogenic property of the conjugated collagen from the native one. Ito HO, et al. **Clin Exp Immunol** 1997 May;108(2):213–9
Effect of mu-opioids morphine and buprenorphine on the development of adjuvant arthritis in rats. Walker JS, et al. **Inflamm Res** 1996 Nov;45(11):557–63
Induction of Th2 cytokines and control of collagen-induced arthritis by nondepleting anti-CD4 Abs. Chu CQ, et al. **J Immunol** 1996 Sep 15;157(6):2685–9
Exacerbation of adjuvant arthritis by adrenalectomy is associated with reduced leukocyte lipocortin 1. Yang YH, et al. **J Rheumatol** 1997 Sep;24(9):1758–64
Investigation of silicone oil and fumed silica in an adjuvant animal model. Picha GJ, et al. **Plast Reconstr Surg** 1997 Sep;100(3):643–52
Clinical and histological assessment of collagen-induced arthritis progression in the diabetes-resistant BB/Wor rat. Knoerzer DB, et al. **Toxicol Pathol** 1997 Jan–Feb; 25(1):13–9

GENETICS

Susceptibility of DA rats to arthritis induced with adjuvant oil or rat collagen is determined by genes both within and outside the major histocompatibility complex. Lorentzen JC, et al. **Scand J Immunol** 1996 Dec;44(6):592–8

IMMUNOLOGY

Effects of adjuvant on neuropeptide-like immunoreactivity in experimentally induced temporomandibular arthritis in rats. Carleson J, et al. **Arch Oral Biol** 1996 Jul;41(7):705–12
Nitric oxide production during adjuvant-induced and collagen-induced arthritis. Cannon GW, et al. **Arthritis Rheum** 1996 Oct;39(10):1677–84
Protection of rats from adjuvant arthritis by immunization with naked DNA encoding for mycobacterial heat shock protein 65. Ragno S, et al. **Arthritis Rheum** 1997 Feb; 40(2):277–83
Antigen presentation of type II collagen by B cells. Catchpole B, et al. **Biochem Soc Trans** 1997 May;25(2):238S
Generation of autoreactive CD4 T cells in Lewis rats after immunisation and culture with bovine type II collage. Gibson K, et al. **Biochem Soc Trans** 1997 May;25(2):239S
Nasal tolerance to dominant and subdominant epitopes of collagen type II and protection against collagen-induced arthritis. Staines NA, et al. **Biochem Soc Trans** 1997 May; 25(2):661–4 (32 ref.)
Staphylococcal enterotoxin B induces arthritis in female DBA/1 mice but fails to induce activation of type II collagen-reactive lymphocytes. Omata S, et al. **Cell Immunol** 1997 Aug 1;179(2):138–45
Antigen-driven peripheral immune tolerance: suppression of experimental autoimmmune encephalomyelitis and collagen-induced arthritis by aerosol administration of myelin basic protein or type II collagen. al-Sabbagh A, et al. **Cell Immunol** 1996 Jul 10;171(1):111–9
Characteristics of synovial fluid effusion in collagen-induced arthritis (CIA) in the DA rat; a comparison of histology and antibody reactivities in an experimental chronic arthritis model and rheumatoid arthritis (RA). Erlandsson Harris H, et al. **Clin Exp Immunol** 1997 Mar;107(3):480–4
Cytokine production in synovial tissue of mice with collagen-induced arthritis (CIA). Müssener A, et al. **Clin Exp Immunol** 1997 Mar;107(3):485–93
Conversion in vivo from an early dominant Th0/Th1 response to a Th2 phenotype during the development of collagen-induced arthritis. Doncarli A, et al. **Eur J Immunol** 1997 Jun;27(6):1451–8
Suppression of adjuvant arthritis in rats by induction of oral tolerance to mycobacterial 65-kDa heat shock protein. Haque MA, et al. **Eur J Immunol** 1996 Nov;26(11):2650–6
Protective major histocompatibility complex genes and the role of interleukin-4 in collagen-induced arthritis. Hesse M, et al. **Eur J Immunol** 1996 Dec;26(12):3234–7
Altered Th1/Th2 balance associated with non-major histocompatibility complex genes in collagen-induced arthritis in resistant and non-resistant rat strains. Müssener A, et al. **Eur J Immunol** 1997 Mar;27(3):695–9
The role of E- and P-selectin in neutrophil and monocyte migration in adjuvant-induced arthritis in the rat. Walter UM, et al. **Eur J Immunol** 1997 Jun;27(6):1498–505
The production of arthritis in beagles by an immunological reaction to bovine serum albumin. Ohashi F, et al. **Exp Anim** 1996 Oct;45(4):299–307
Adoptive transfer of susceptibility to antigen-induced arthritis into severe combined immunodeficient (SCID) mice: role of CD4+ and CD8+ T cells. Petrow PK, et al. **Immunol Invest** 1996 Jul;25(4):341–53
B- and T-cell autoantigens in pristane-induced arthritis. Barker RN, et al. **Immunology** 1996 Oct;89(2):189–94
Polyclonal Th1 cells transfer oil-induced arthritis. Svelander L, et al. **Immunology** 1997 Jun;91(2):260–5
Regulatory T cells specific for the same framework 3 region of the Vbeta8.2 chain are involved in the control of collagen II-induced arthritis and experimental autoimmune encephalomyelitis. Kumar V, et al. **J Exp Med** 1997 May 19;185(10):1725–33
Diversification of T cell responses to carboxy-terminal determinants within the 65-kD heat-shock protein is involved in regulation of autoimmune arthritis. Moudgil KD, et al. **J Exp Med** 1997 Apr 7;185(7):1307–16
An HLA-DR1 transgene confers susceptibility to collagen-induced arthritis elicited with human type II collagen. Rosloniec EF, et al. **J Exp Med** 1997 Mar 17; 185(6):1113–22
Dietary Juniperis virginiensis seed oil decreased pentobarbital-associated mortalities among DBA/1 mice treated with collagen-adjuvant emulsions. Yoshida SH, et al. **J Lipid Mediat Cell Signal** 1996 May;13(3):283–93
Analysis of the inflammatory cytokine network among TNF alpha, IL-1 beta, IL-1 receptor antagonist, and IL-8 in LPS-induced rabbit arthritis. Matsukawa A, et al. **Lab Invest** 1997 May;76(5):629–38
Molecular basis of type II collagen autoimmune disease: observations of arthritis, auricular chondritis and tympanitis in mice. Fujiyoshi T, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jul–Aug; 59(4):215–29
Analysis of murine IgG isotype galactosylation in collagen-induced arthritis. Williams PJ, et al. **Scand J Immunol** 1996 Oct;44(4):381–7
SP100030 is a novel T-cell-specific transcription factor inhibitor that possesses immunosuppressive activity in vivo. Goldman ME, et al. **Transplant Proc** 1996 Dec;28(6):3106–9
Comparative susceptibility of DA, LEW, and LEW.1AV1 rats to arthritis induced with different arthritogens: mineral oil, mycobacteria, muramyl dipeptide, avridine and rat collagen type II. Lorentzen JC, et al. **Transplant Proc** 1997 May;29(3):1692–3
[Effects pf captopril and D-penicillamine on kinins-mediated and chronic inflammation] Gáspár R, et al. **Acta Pharm Hung** 1996 Jul;66(4):171–6 (Eng. Abstr.) **(Hun)**
[Development of adjuvant arthritis in ozone-sensitized rats] Sapronov NS, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep; (3):35–7 (Eng. Abstr.) **(Rus)**

METABOLISM

Nitric oxide production during adjuvant-induced and collagen-induced arthritis. Cannon GW, et al. **Arthritis Rheum** 1996 Oct;39(10):1677–84
Twenty-four-hour rhythms of serum ACTH, prolactin, growth hormone, and thyroid-stimulating hormone, and of median-eminence norepinephrine, dopamine, and serotonin, in rats injected with Freund's adjuvant. Selgas L, et al. **Chronobiol Int** 1997 May;14(3):253–65
Dynamics of proinflammatory cytokine expression in the joints of mice with collagen-induced arthritis (CIA). Marinova-Mutafchieva L, et al. **Clin Exp Immunol** 1997 Mar;107(3):507–12
Cytokine production in synovial tissue of mice with collagen-induced arthritis (CIA). Müssener A, et al. **Clin Exp Immunol** 1997 Mar;107(3):485–93
Dynamic expression of transforming growth factor-betas (TGF-beta) and their type I and type II receptors in the synovial tissue of arthritic rats. Müssener A, et al. **Clin Exp Immunol** 1997 Jan;107(1):112–9
The effect of dexamethasone on the expression of activated NF-kappa B in adjuvant arthritis. Tsao PW, et al. **Clin Immunol Immunopathol** 1997 May;83(2):173–8
Histochemical analysis of insulin-like growth factor-1 binding sites in mouse normal and experimentally induced arthritic articular cartilage. Verschure PJ, et al. **Histochem J** 1996 Jan;28(1):13–23
Efferent targets of osseous CGRP-immunoreactive nerve fiber before and after bone destruction in adjuvant arthritic rat: an ultramorphological study on their terminal-target relations. Imai S, et al. **J Bone Miner Res** 1997 Jul; 12(7):1018–27
Differential regulation of hypothalamic pituitary corticotropin releasing hormone receptors during development of adjuvant-induced arthritis in the rat. Aguilera G, et al. **J Endocrinol** 1997 May;153(2):185–91
Low dose methotrexate decreases intraarticular prostaglandin and interleukin 1 levels in antigen induced arthritis in rabbits. Novaes GS, et al. **J Rheumatol** 1996 Dec; 23(12):2092–7
Osteoclasts in normal and adjuvant arthritis bone tissues express the mRNA for both type I and II interleukin-1 receptors. Xu LX, et al. **Lab Invest** 1996 Nov;75(5):677–87
Norepinephrine content in primary and secondary lymphoid organs is altered in rats with adjuvant-induced arthritis.

Lorton D, et al. **Mech Ageing Dev** 1997 Mar;94(1–3):145–63

A model for experimentally induced temperomandibular joint arthritis in rats: effects of carrageenan on neuropeptide–like immunoreactivity. Lundeberg T, et al. **Neuropeptides** 1996 Feb;30(1):37–41

Effect of capsaicin on substance P and nerve growth factor in adjuvant arthritic rats. Garrett NE, et al. **Neurosci Lett** 1997 Jul 11;230(1):5–8

Calcitonin gene–related peptide content, basal outflow and electrically–evoked release from monoarthritic rat spinal cord in vitro. Malcangio M, et al. **Pain** 1996 Aug; 66(2–3):351–8

Increased total body synthesis of prostacyclin in rats with adjuvant arthritis. Stichtenoth DO, et al. **Prostaglandins** 1995 Nov–Dec;50(5–6):331–40

Analysis of murine IgG isotype galactosylation in collagen–induced arthritis. Williams PJ, et al. **Scand J Immunol** 1996 Oct;44(4):381–7

Liver haem metabolism in adjuvant–induced arthritic rats. Toda A, et al. **Xenobiotica** 1996 Apr;26(4):415–23

[The effect of phenobarbital and cimetidine on the elimination kinetics and distribution in the heart and liver of propranolol in rats with acute and chronic inflammations] Lutsevich AN, et al. **Eksp Klin Farmakol** 1996 May–Jun; 59(3):47–52 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Pristane–induced arthritis in rats: a new model for rheumatoid arthritis with a chronic disease course influenced by both major histocompatibility complex and non–major histocompatibility complex genes. Vingsbo C, et al. **Am J Pathol** 1996 Nov;149(5):1675–83

Enkephalinergic and dynorphinergic neurons in the spinal cord and dorsal root ganglia of the polyarthritic rat – in vivo release and cDNA hybridization studies. Pohl M, et al. **Brain Res** 1997 Feb 21;749(1):18–28

Characteristics of synovial fluid effusion in collagen–induced arthritis (CIA) in the DA rat; a comparison of histology and antibody reactivities in an experimental chronic arthritis model and rheumatoid arthritis (RA). Erlandsson Harris H, et al. **Clin Exp Immunol** 1997 Mar;107(3):480–4

Neutrophils and adjuvant arthritis [editorial] Ward PA. **Clin Exp Immunol** 1997 Feb;107(2):225–6

Pathologic study of an experimental canine arthritis induced with Complete Freund's Adjuvant. Haak T, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):633–41

Reduced incidence and severity of collagen–induced arthritis in interleukin–12–deficient mice. McIntyre KW, et al. **Eur J Immunol** 1996 Dec;26(12):2933–8

Aggravation of adjuvant arthritis by carrageenan. Silván AM, et al. **Gen Pharmacol** 1996 Jun;27(4):639–42

Human leukocyte antigen–DRB1*1502 (DR2Dw12) transgene reduces incidence and severity of arthritis in mice. Gonzalez–Gay MA, et al. **Hum Immunol** 1996 Sep 15;50(1):54–60

Recruitment of lymphoblasts derived from peripheral and intestinal lymph to synovium and other tissues in normal rats and rats with adjuvant arthritis. Spargo LD, et al. **J Immunol** 1996 Dec 1;157(11):5198–207

Oxaceprol, an atypical inhibitor of inflammation and joint damage. Ionac M, et al. **Pharmacol Res** 1996 Jun; 33(6):367–73

Clinical and histological assessment of collagen–induced arthritis progression in the diabetes–resistant BB/Wor rat. Knoerzer DB, et al. **Toxicol Pathol** 1997 Jan–Feb; 25(1):13–9

PHYSIOPATHOLOGY

The influence of antagonists of poly(ADP–ribose)polymerase on the activity of antirheumatic drugs on the development of adjuvant arthritis in rats and on the induction of tyrosine aminotransferase in the liver of rats. Kröger H, et al. **Adv Exp Med Biol** 1996;398:523–6

Role of interleukin–4 and interleukin–10 in murine collagen–induced arthritis. Protective effect of interleukin–4 and interleukin–10 treatment on cartilage destruction. Joosten LA, et al. **Arthritis Rheum** 1997 Feb; 40(2):249–60

Adjuvant arthritis as a model of inflammatory cachexia. Roubenoff R, et al. **Arthritis Rheum** 1997 Mar;40(3):534–9

The influence of silicone implantation on type II collagen–induced arthritis in mice. Schaefer CJ, et al. **Arthritis Rheum** 1997 Jun;40(6):1064–72

Effects of indomethacin administration on bone turnover and bone mass in adjuvant–induced arthritis in rats. Aota S, et al. **Calcif Tissue Int** 1996 Nov;59(5):385–91

Changes in bone mineral density in rat adjuvant arthritis. Takagi T, et al. **Clin Immunol Immunopathol** 1997 Aug; 84(2):166–70

Reduction of sensory responses to passive movements of inflamed knee joints by hylan, a hyaluronan derivative. Pozo MA, et al. **Exp Brain Res** 1997 Aug;116(1):3–9

Inhibition of transfer of collagen–induced arthritis into SCID mice by ex vivo infection of spleen cells with retroviruses expressing soluble tumor necrosis factor receptor. Chernajovsky Y, et al. **Gene Ther** 1995 Dec;2(10):731–5

Sympathetically induced paradoxical increases of the cutaneous blood flow in chronically inflamed rats. Tsujii Y, et al. **J Auton Nerv Syst** 1996 Jul 5;59(3):103–12

Collagen–induced arthritis is reduced in 5–lipoxygenase–activating protein–deficient mice. Griffiths RJ, et al. **J Exp Med** 1997 Mar 17;185(6):1123–9

Changes in the responsiveness of parabrachial neurons in the arthritic rat: an electrophysiological study. Matsumoto N, et al. **J Neurophysiol** 1996 Dec;76(6):4113–26

Dorsal root reflexes in articular afferents occur bilaterally in a chronic model of arthritis in rats. Rees H, et al. **J Neurophysiol** 1996 Dec;76(6):4190–3

Slow–release clodronate in prevention of inflammation and bone loss associated with adjuvant arthritis. Osterman T, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1001–7

Protective effects of monoclonal antibody to VLA–4 on leukocyte adhesion and course of disease in adjuvant arthritis in rats. Seiffge D. **J Rheumatol** 1996 Dec; 23(12):2086–91

Major role for interleukin 1 but not for tumor necrosis factor in early cartilage damage in immune complex arthritis in mice. Van Lent PL, et al. **J Rheumatol** 1995 Dec; 22(12):2250–8

Insights into the role of nitric oxide in inflammatory arthritis. Cochran FR, et al. **Med Res Rev** 1996 Nov;16(6):547–63 (114 ref.)

The increase in growth hormone secretion in experimentally induced arthritic rats is an adaptive process involved in the regulation of inflammation. Bluet–Pajot MT, et al. **Neuroendocrinology** 1996 Jan;63(1):85–92

Is the pretreatment effect of low dose Freund's adjuvant on adjuvant arthritis due to an activation of the nervous system? Bileviciute I, et al. **Neuropeptides** 1996 Oct; 30(5):405–11

Biomechanical and morphological studies on osseointegration in immunological arthritis in rabbits. Brånemark R, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):185–95

PREVENTION & CONTROL

Suppression of collagen–induced arthritis through adenovirus–mediated transfer of a modified tumor necrosis factor alpha receptor gene. Le CH, et al. **Arthritis Rheum** 1997 Sep;40(9):1662–9

Protection of rats from adjuvant arthritis by immunization with naked DNA encoding for mycobacterial heat shock protein 65. Ragno S, et al. **Arthritis Rheum** 1997 Feb; 40(2):277–83

Nasal tolerance to dominant and subdominant epitopes of collagen type II and protection against collagen–induced arthritis. Staines NA, et al. **Biochem Soc Trans** 1997 May; 25(2):661–4 (32 ref.)

Z–100, extracted from Mycobacterium tuberculosis strain Aoyama B, inhibits the development of collagen–induced arthritis in mice. Omata T, et al. **Biol Pharm Bull** 1997 Jun;20(6):694–7

The effect of keishi–bushi–to on collagen–induced arthritis. Wakabayashi K, et al. **Biol Pharm Bull** 1997 Apr; 20(4):376–80

Prevention of collagen–induced arthritis (CIA) by treatment with polyethylene glycol–conjugated type II collagen; distinct tolerogenic property of the conjugated collagen from the native one. Ito HO, et al. **Clin Exp Immunol** 1997 May;108(2):213–9

Anti–neutrophil monoclonal antibody therapy inhibits the development of adjuvant arthritis. Santos LL, et al. **Clin Exp Immunol** 1997 Feb;107(2):248–53

Suppression of adjuvant arthritis in rats by induction of oral tolerance to mycobacterial 65–kDa heat shock protein. Haque MA, et al. **Eur J Immunol** 1996 Nov;26(11):2650–6

Protective major histocompatibility complex genes and the role of interleukin–4 in collagen–induced arthritis. Hesse M, et al. **Eur J Immunol** 1996 Dec;26(12):3234–7

Specific and long–lasting suppression of rat adjuvant arthritis by low–dose Mycobacterium butyricum. Conforti A, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):241–7

Inhibition of transfer of collagen–induced arthritis into SCID mice by ex vivo infection of spleen cells with retroviruses expressing soluble tumor necrosis factor receptor. Chernajovsky Y, et al. **Gene Ther** 1995 Dec;2(10):731–5

Human leukocyte antigen–DRB1*1502 (DR2Dw12) transgene reduces incidence and severity of arthritis in mice. Gonzalez–Gay MA, et al. **Hum Immunol** 1996 Sep 15;50(1):54–60

Suppression of adjuvant arthritis by kappa–opioid receptor agonist: effect of route of administration and strain differences. Antić J, et al. **Immunopharmacology** 1996 Sep; 34(2–3):105–12

Suppression of adjuvant arthritis and synovial macrophage inducible nitric oxide by N–iminoethyl–L–ornithine, a nitric oxide synthase inhibitor. Santos LL, et al. **Inflammation** 1997 Jun;21(3):299–311

Induction of Th2 cytokines and control of collagen–induced arthritis by nondepleting anti–CD4 Abs. Chu CQ, et al. **J Immunol** 1996 Sep 15;157(6):2685–9

Comparison of the nitric oxide synthase inhibitors methylarginine and aminoguanidine as prophylactic and therapeutic agents in rat adjuvant arthritis. Stefanovic–Racic M, et al. **J Rheumatol** 1995 Oct; 22(10):1922–8

Prevention of autoimmune disease due to lymphocyte modulation by the B–subunit of Escherichia coli heat–labile enterotoxin. Williams NA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5290–5

PSYCHOLOGY

Pain–related disability and effects of chronic morphine in the adjuvant–induced arthritis model of chronic pain. Cain CK, et al. **Physiol Behav** 1997 Jul;62(1):199–205

RADIONUCLIDE IMAGING

Evaluation of four radiopharmaceuticals for imaging inflammation in a rabbit model of arthritis. Chinol M, et al. **Ann Nucl Med** 1996 Aug;10(3):287–91

Technetium–99m labelled liposomes to image experimental arthritis. Boerman OC, et al. **Ann Rheum Dis** 1997 Jun; 56(6):369–73

Macrophage targeting in experimental arthritis [letter; comment] Oyen WJ, et al. **Eur J Nucl Med** 1996 Jun; 23(6):727–9. Comment on: Eur J Nucl Med 1996 Jan;23(1):61–8.

RADIOTHERAPY

Comparison of the effects of tenoxicam and mid–laser irradiation on chronic adjuvant arthritis in rats. Ulugöl A, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):83–6

THERAPY

Antigen–driven peripheral immune tolerance: suppression of experimental autoimmmune encephalomyelitis and collagen–induced arthritis by aerosol administration of myelin basic protein or type II collagen. al–Sabbagh A, et al. **Cell Immunol** 1996 Jul 10;171(1):111–9

Pathogenic lymphoid cells engineered to express TGF beta 1 ameliorate disease in a collagen–induced arthritis model. Chernajovsky Y, et al. **Gene Ther** 1997 Jun;4(6):553–9

Interleukin 10 suppresses experimental chronic, granulomatous inflammation induced by bacterial cell wall polymers. Herfarth HH, et al. **Gut** 1996 Dec;39(96):836–45

Treatment of established adjuvant arthritis in rats with monoclonal antibody to CD18 and very late activation antigen–4 integrins suppresses neutrophil and T–lymphocyte migration to the joints and improves clinical disease. Issekutz AC, et al. **Immunology** 1996 Aug; 88(4):569–76

Establishment of behavioral parameters for the evaluation of osteopathic treatment principles in a rat model of arthritis [see comments] Hallas B, et al. **J Am Osteopath Assoc** 1997 Apr;97(4):207–14. Comment in: J Am Osteopath Assoc 1997 Apr;97(4):204.

The best studies do one thing well [editorial; comment] Patterson MM. **J Am Osteopath Assoc** 1997 Apr;97(4):204 . Comment on: J Am Osteopath Assoc 1997 Apr;97(4):207–14.

Peptide–induced nasal tolerance for a mycobacterial heat shock protein 60 T cell epitope in rats suppresses both adjuvant arthritis and nonmicrobially induced experimental arthritis. Prakken BJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3284–9

ARTHRITIS, BACTERIAL see **ARTHRITIS, INFECTIOUS**

ARTHRITIS, DEGENERATIVE see **OSTEOARTHRITIS**

ARTHRITIS–ENCEPHALITIS VIRUS, CAPRINE

Type 1 and type 2 cytokine gene expression by viral gp135 surface protein–activated T lymphocytes in caprine arthritis–encephalitis lentivirus infection. Cheevers WP, et al. **J Virol** 1997 Aug;71(8):6259–63

ENZYMOLOGY

Comparative studies of bacterially expressed integrase proteins of caprine arthritis–encephalitis virus, maedi–visna virus and human immunodeficiency virus type 1. Störmann KD, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1651–63

dUTPase–minus caprine arthritis–encephalitis virus is attenuated for pathogenesis and accumulates G–to–A substitutions. Turelli P, et al. **J Virol** 1997 Jun;71(6):4522–30

GENETICS

STAT1 pathway is involved in activation of caprine arthritis–encephalitis virus long terminal repeat in monocytes. Sepp T, et al. **J Virol** 1997 Jan;71(1):771–7

Requirement of caprine arthritis encephalitis virus vif gene for in vivo replication. Harmache A, et al. **Virology** 1996 Oct 1;224(1):246–55

Genetic characterization of two phenotypically distinct North American ovine lentiviruses and their possible origin from caprine arthritis–encephalitis virus. Karr BM, et al. **Virology** 1996 Nov 1;225(1):1–10

GROWTH & DEVELOPMENT

The response of goat brain cells to infection by caprine arthritis–encephalitis virus. Adeyemo O, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Dec;42(8):1195–209

IMMUNOLOGY

Replication in goats in vivo of caprine arthritis–encephalitis virus deleted in vif or tat genes: possible use of these deletion mutants as live vaccines. Harmache A, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):409–11 (9

ref.)
Caprine arthritis encephalitis virus dysregulates the expression of cytokines in macrophages. Lechner F, et al. **J Virol** 1997 Oct;71(10):7488-97
T-lymphocyte populations in the blood of caprine arthritis encephalitis virus-infected goats. Grezel D, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1-2):99-104
Changes in the leukocyte phenotype profile of goats infected with the caprine arthritis encephalitis virus. Jolly PE, et al. **Vet Immunol Immunopathol** 1997 May;56(1-2):97-106
Expression of TNF alpha in arthritis caused by caprine arthritis encephalitis virus. Lechner F, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1-4):281-9
Immune responses in goats to caprine arthritis-encephalitis virus. Ding EY, et al. **Viral Immunol** 1997;10(2):111-5

ISOLATION & PURIFICATION

CAEV infection does not affect prevalence of bacterial mastitis in goats. Nord K. **Acta Vet Scand** 1997;38(2):197-9
Detection of caprine arthritis--encephalitis virus RNA in macrophages by in situ hybridization using fluorescein-labelled single-stranded RNA probes. Storset AK, et al. **Vet Microbiol** 1996 Sep;52(1-2):25-35
Immunohistochemical identification of caprine arthritis-encephalitis virus in paraffin-embedded specimens from naturally infected goats. Storset AK, et al. **Vet Pathol** 1997 May;34(3):180-8
Caprine arthritis-encephalitis virus: detection of proviral DNA in lactoserum cells. Russo P, et al. **Vet Rec** 1997 May 3;140(18):483-4
RT-PCR detection of lentiviruses in milk or mammary secretions of sheep or goats from infected flocks. Leroux C, et al. **Vet Res** 1997;28(2):115-21

METABOLISM

Definition of the RRE binding and activation domains of the caprine arthritis encephalitis virus Rev protein. Schoborg RV, et al. **Virology** 1996 Dec 1;226(1):113-21

PHYSIOLOGY

Productive replication of caprine arthritis-encephalitis virus is associated with induction of apoptosis. Gendelman R, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):801-5
Risk factors for transmission and methods for control of caprine arthritis-encephalitis virus infection. Rowe JD, et al. **Vet Clin North Am Food Anim Pract** 1997 Mar; 13(1):35-53 (69 ref.)
Restrictive type of replication of ovine/caprine lentiviruses in ovine fibroblast cell cultures. Cheboune Y, et al. **Virology** 1996 Aug 1;222(1):21-30

ARTHRITIS, GOUTY

CHEMICALLY INDUCED

Gout secondary to ritonavir and didanosine [letter] Mehlhaff DL, et al. **AIDS** 1996 Dec;10(14):1744

COMPLICATIONS

Recurrent spinal stenosis caused by tophaceous gout: a case report and review of literature. Ko PJ, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):272-6
Reflex sympathetic dystrophy syndrome following acute gouty arthritis. Zucchi F, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):417-20
Intradermal urate tophi. Fam AG, et al. **J Rheumatol** 1997 Jun;24(6):1126-31
Concurrent gout and Mycobacterium tuberculosis arthritis. Lorenzo JP, et al. **J Rheumatol** 1997 Jan;24(1):184-6
Concomitant crystal and septic arthritis. Ilahi OA, et al. **Orthopedics** 1996 Jul;19(7):613-7 (31 ref.)

DIAGNOSIS

Extradural spinal tophaceous gout: evolution with medical treatment. Dhôte R, et al. **Clin Exp Rheumatol** 1997 Jul-Aug;15(4):421-3
Gout presenting as non-union of a patellar fracture. Espinosa-Morales R, et al. **J Rheumatol** 1997 Jul; 24(7):1421-2
[MR imaging in gout] Seidl G, et al. **Radiologe** 1996 Aug; 36(8):632-6 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Anti-inflammatory effect of a PAF receptor antagonist and a new molecule with antiproteinase activity in an experimental model of acute urate crystal arthritis. Miguélez R, et al. **J Lipid Mediat Cell Signal** 1996 Jan; 13(1):35-49
What is the optimal treatment for acute crystal-induced arthritis? [editorial; comment] Pawlotsky Y. **Rev Rhum Engl Ed** 1996 Apr;63(4):231-3. Comment on: Rev Rhum Engl Ed 1996 Apr;63(4):248-54.
Diversity of opinions on the management of gout in France. A survey of 750 rheumatologists. Rozenberg S, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):255-61
Corticosteroid therapy for the treatment of acute attacks of crystal-induced arthritis: an effective alternative to nonsteroidal antiinflammatory drugs [see comments] Werlen D, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):248-54 . Comment in: Rev Rhum Engl Ed 1996 Apr;63(4):231-3.
[Treatment for gouty arthritis] Shimizu T. **Nippon Rinsho** 1996 Dec;54(12):3267-71 (10 ref.) (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Characteristics of gouty arthritis in the Guatemalan population. Garcia CO, et al. **Clin Rheumatol** 1997 Jan; 16(1):45-50

ETIOLOGY

Gouty arthritis and chronic renal insufficiency in a patient with glycogen storage disease of the muscle-energy group [letter] Wang HT, et al. **Aust N Z J Med** 1996 Jun; 26(3):418-9
A former hockey player with knee and calf pain. Patel K, et al. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):17-8

GENETICS

[Familial juvenile gouty nephropathy] Pavelka K Jr, et al. **Cas Lek Cesk** 1996 Oct 23;135(20):668-71 (Eng. Abstr.) **(Cze)**

IMMUNOLOGY

Inhibition of T cell apoptosis in the rheumatoid synovium. Salmon M, et al. **J Clin Invest** 1997 Feb 1;99(3):439-46

METABOLISM

Gouty arthritis and uric acid metabolism [see comments] Wise CM, et al. **Curr Opin Rheumatol** 1996 May;8(3):248-54 (54 ref.). Comment in: Curr Opin Rheumatol 1996 May;8(3):235-7.
[Crystal induced arthritis] Kamatani N. **Ryumachi** 1997 Feb; 37(1):58-66 (24 ref.) **(Jpn)**

MICROBIOLOGY

Pasteurella multocida infectious arthritis with acute gout after a cat bite. Butt TS, et al. **J Rheumatol** 1997 Aug; 24(8):1649-52 (56 ref.)
Coexistent gout and Mycobacterium avium-intracellulare arthritis in a renal transplant recipient. Czachor JS, et al. **Kidney Blood Press Res** 1997;20(1):62-3

PATHOLOGY

Fine-needle aspiration biopsy of gouty tophi: lessons in cost-effective patient management. Nicol KK, et al. **Diagn Cytopathol** 1997 Jul;17(1):30-5

RADIOGRAPHY

Destructive gouty arthritis of the hip [letter] Javier RM, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):279-80
Nodal osteoarthritis and gout: a report of four new cases. Foldes K, et al. **Skeletal Radiol** 1996 Jul;25(5):421-4

SURGERY

[Surgical therapy of pronounced gout tophi in both hands. Case report] Piza-Katzer H, et al. **Handchir Mikrochir Plast Chir** 1997 Mar;29(2):96-100 (Eng. Abstr.) **(Ger)**

THERAPY

Therapy for gouty individuals [letter] Simkin PA. **J Rheumatol** 1996 Jun;23(6):1115-6

ARTHRITIS, INFECTIOUS

Pneumococcal keratitis, bacteremia, and septic arthritis in an asplenic patient. Rivera P, et al. **Cornea** 1996 Jul; 15(4):434-6
Infectious arthritis and immune dysfunction. **Curr Opin Rheumatol** 1996 Jul;8(4):B118-26
Viral arthritis. Phillips PE. **Curr Opin Rheumatol** 1997 Jul; 9(4):337-44 (48 ref.)
Poncet's disease--case report. Thakur S, et al. **Indian J Med Sci** 1996 Jul;50(7):244-6
Streptococcal arthritis in Thai adults: case series and review. Osiri M, et al. **J Med Assoc Thai** 1996 Dec;79(12):755-61
Invasive infections caused by Yersinia enterocolitica in infants. alMohsen I, et al. **Pediatr Infect Dis J** 1997 Feb; 16(2):253-5
Septic arthritis. Pioro MH, et al. **Rheum Dis Clin North Am** 1997 May;23(2):239-58 (102 ref.)
Infection-related arthritis. Rose CD, et al. **Rheum Dis Clin North Am** 1997 Aug;23(3):677-95 (94 ref.)
[Pyoarthritis of the knee--caseload of the Hospital das Clínicas da FMUSP 1990-1994 (86 cases)] Pereira EA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1995 Nov-Dec; 50(6):317-9 (Eng. Abstr.) **(Por)**

COMPLICATIONS

Pneumococcal arthritis and monoclonal gammopathy of undetermined significance [letter] Korman TM, et al. **Aust N Z J Med** 1997 Jun;27(3):342
Mycoplasmal arthritis in patients with primary immunoglobulin deficiency: clinical features and outcome in 18 patients. Franz A, et al. **Br J Rheumatol** 1997 Jun; 36(6):661-8
Mycobacterium kansasii infection in a patient presenting with porphyria cutanea tarda. Jarrett P, et al. **Clin Exp Dermatol** 1996 Jul;21(4):286-7
Coexistence of tuberculous and pyogenic arthritis [letter] Acebes JC, et al. **Clin Exp Rheumatol** 1995 Nov-Dec; 13(6):793
Coexistence of pseudogout and arthritis due to Actinobacillus actinomycetemcomitans. Cuende E, et al. **Clin Infect Dis** 1996 Sep;23(3):657-8
Septic arthritis of the sternoclavicular joint. George S, et al. **Clin Infect Dis** 1995 Dec;21(6):1525-6
Lumbar facet joint infection associated with epidural and paraspinal abscess. Baltz MS, et al. **Clin Orthop** 1997 Jun; (339):109-12
Hemophilus influenzae septic arthritis and pneumonia in an adult as the first presentation of multiple myeloma. Bhatnagar SK, et al. **Conn Med** 1996 Nov;60(11):643-7
Infectious arthritis and immune dysfunction [editorial] Schoen RT. **Curr Opin Rheumatol** 1996 Jul;8(4):317-21 (15 ref.)
Brucellosis of the spine with a synchronous Staphylococcus aureus pyogenic elbow infection. Velan GJ, et al. **Eur Spine J** 1997;6(4):284-5
Candida tropicalis arthritis in a patient with acute myeloid leukemia successfully treated with fluconazole: case report and review of the literature. Weers-Pothoff G, et al. **Infection** 1997 Mar-Apr;25(2):109-11 (25 ref.)
Discitis, infectious arthritis, and bacterial meningitis in a patient with pancreatic diabetes [see comments] Murao S, et al. **Intern Med** 1997 Jun;36(6):443-5. Comment in: Intern Med 1997 Jun;36(6):382-3.
Reconstruction for sequelae of septic hip in children. Chang CH, et al. **J Formos Med Assoc** 1997 May;96(5):353-8
Uncemented total arthroplasty in old quiescent infection of the hip. Wang JW. **J Formos Med Assoc** 1997 Aug; 96(8):634-40
Femoral lengthening after type IVB septic arthritis of the hip in children. Cheng JC, et al. **J Pediatr Orthop** 1996 Jul-Aug;16(4):533-9
Concurrent gout and Mycobacterium tuberculosis arthritis. Lorenzo JP, et al. **J Rheumatol** 1997 Jan;24(1):184-6
Arthritis and meningitis--the first manifestations of bacterial endocarditis in 2 patients. Suzuki J, et al. **Jpn Circ J** 1997 May;61(5):450-4
The association of primary varicella infection and streptococcal infection of the cutaneous and musculoskeletal system: a case report. Poon AH, et al. **Magn Reson Imaging** 1997;15(1):131-3
Concomitant crystal and septic arthritis. Ilahi OA, et al. **Orthopedics** 1996 Jul;19(7):613-7 (31 ref.)
Transient brachial palsy associated with suppurative arthritis of the shoulder. Miron D, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):326-7
Candida arthritis complicating long term total parenteral nutrition. Murphy O, et al. **Pediatr Infect Dis J** 1997 Mar; 16(3):329
Septic arthritis due to Haemophilus parainfluenzae in a patients infected with the human immunodeficiency virus type 1 [letter] Blanche P, et al. **Rev Rhum Engl Ed** 1996 May;63(5):380
[Septic arthritis in an HIV-positive hemophiliac] Bar Dayan Y, et al. **Harefuah** 1996 Sep;131(5-6):145-6, 216 (Eng. Abstr.) **(Heb)**
[Salmonella septic arthritis in a hemophiliac with AIDS: aggressive treatment (letter)] Ferré R, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):573-4 **(Spa)**

DIAGNOSIS

Three cases of pyogenic sacro-iliitis, and factors in the relapse of the disease. Tokuda K, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):385-9 (19 ref.)
Iliacus pyomyositis mimicking septic arthritis of the hip joint. Chen W-S, et al. **Arch Orthop Trauma Surg** 1996; 115(3-4):233-5
The outcome of bacterial arthritis: a prospective community-based study. Kaandorp CJ, et al. **Arthritis Rheum** 1997 May;40(5):884-92
Septic arthritis of the hip in children. Mc Gaughey I. **Aust Fam Physician** 1997 Feb;26(2):158-60
Lyme borreliosis in rheumatological practice: identification of Lyme arthritis and diagnostic aspects in a Swedish county with high endemicity. Berglund J, et al. **Br J Rheumatol** 1996 Sep;35(9):853-60
Comment on the article 'Reactive arthritis, beta-haemolytic Streptococcus and Staphylococcus aureus' by D. N. Leitch and C. D. Holland [letter; comment] Braun J, et al. **Br J Rheumatol** 1997 May;36(5):606-7. Comment on: Br J Rheumatol 1996 Sep;35(9):912.
Persistence of Staphylococcus aureus as detected by polymerase chain reaction in the synovial fluid of a patient with septic arthritis. Canvin JM, et al. **Br J Rheumatol** 1997 Feb;36(2):203-6
Sensitivity of objective parameters in the diagnosis of pediatric septic hips. Klein DM, et al. **Clin Orthop** 1997 May;(338):153-9
Immunoscintigraphy as an adjunct to diagnostic imaging in septic sacroiliitis. Report of a case. Rambaldi PF, et al. **Clin Rheumatol** 1996 Jan;15(1):67-71
Pyogenic arthritis caused by streptococcus equisimilis (group-C streptococcus) in a patient with AIDS. Steinfeld S, et al. **Clin Rheumatol** 1997 May;16(3):314-6 (20 ref.)
Viral arthritis. Schnitzer TJ, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):341-5 (17 ref.)

Imaging in the diagnosis of musculoskeletal infections in children. Mandell GA. **Curr Probl Pediatr** 1996 Aug; 26(7):218–37 (46 ref.)
Sternoclavicular joint septic arthritis with small-colony variant Staphylococcus aureus. Spearman P, et al. **Diagn Microbiol Infect Dis** 1996 Sep;26(1):13–5
Recognition and management of bacterial arthritis. Cimmino MA. **Drugs** 1997 Jul;54(1):50–60 (60 ref.)
A practical guide to the diagnosis and management of bone and joint infections. Mader JT, et al. **Drugs** 1997 Aug; 54(2):253–64 (64 ref.)
A "minority" opinion about the diagnosis and treatment of Lyme arthritis. Graninger W. **Infection** 1996 Jan–Feb; 24(1):95–7
Reactive arthritis associated with Shigella dysenteriae type 1 infection. Mazumder RN, et al. **J Diarrhoeal Dis Res** 1997 Mar;15(1):21–4
Common variable immunodeficiency presenting as a Mycoplasma hominis septic arthritis. Steuer A, et al. **J Infect** 1996 Nov;33(3):235–7
MR imaging of tuberculous arthritis: clinical and experimental studies. Suh JS, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):185–9
Diagnosis and treatment of Lyme arthritis. Steere AC. **Med Clin North Am** 1997 Jan;81(1):179–94 (90 ref.)
Pediatric septic arthritis. Matan AJ, et al. **Orthopedics** 1997 Jul;20(7):630–5; quiz 636–7 (74 ref.)
Primary meningococcal arthritis. Dillon M, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):331–2
Serum C-reactive protein, erythrocyte sedimentation rate and white blood cell count in septic arthritis of children. Kallio MJ, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):411–3
Escherichia coli arthritis as the presenting manifestation of posterior urethral valves [letter] Sferra TJ, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):260–1
Destructive polyarthritis due to a group B streptococcus. Straus C, et al. **Rev Rhum Engl Ed** 1997 May;64(5):339–41
Septic sacroiliitis. Zimmermann B 3rd, et al. **Semin Arthritis Rheum** 1996 Dec;26(3):592–604 (89 ref.)
Imaging of infectious arthritis. Forrester DM, et al. **Semin Roentgenol** 1996 Jul;31(3):239–49 (49 ref.)
Magnetic resonance imaging in coccidioidal arthritis. Lund PJ, et al. **Skeletal Radiol** 1996 Oct;25(7):661–5
Pneumococcal sacroiliitis. Pinson AG, et al. **South Med J** 1997 Jun;90(6):649–52 (36 ref.)
[A case of arthritis of the wrist caused by Mycobacterium marinum. Review of the literature] Flisch CW, et al. **Ann Chir Main Memb Super** 1996;15(4):238–43 (15 ref.) (Eng. Abstr.) **(Fre)**
[Septic sacroiliac arthritis in an adolescent] de Tournemire R, et al. **Arch Pediatr** 1997 May;4(5):420–3 (Eng. Abstr.) **(Fre)**
[Lumbar interapophyseal septic arthritis. Apropos of 3 cases] Douvrin F, et al. **J Neuroradiol** 1996 Dec;23(4):234–40 (Eng. Abstr.) **(Fre)**
[Pyogenic sacroiliitis in children. Apropos of 11 cases] Lenfant J, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(2):139–47 (Eng. Abstr.) **(Fre)**
[Diagnostic strategies in rheumatology. 3: General laboratory diagnosis—detection of pathogenic infections] Genth E. **Fortschr Med** 1997 Apr 10;115(10):42, 45 **(Ger)**
[MRT in tuberculous gonarthritis in childhood] Staatz G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):210–2 (10 ref.) **(Ger)**
[A case with systemic lupus erythematosus complicated with tuberculosis sacroiliac arthritis] Sugiyama K, et al. **Ryumachi** 1997 Feb;37(1):36–41 (Eng. Abstr.) **(Jpn)**
[Non-specific sacroiliitis] Poleksić Z, et al. **Acta Chir Iugosl** 1995;42(1):55–8 (Eng. Abstr.) **(Scr)**

DRUG THERAPY

Pharmacokinetic optimisation of the treatment of septic arthritis. Hamed KA, et al. **Clin Pharmacokinet** 1996 Aug; 31(2):156–63 (32 ref.)
Long-term results in patients with Lyme arthritis following treatment with ceftriaxone. Valešová H, et al. **Infection** 1996 Jan–Feb;24(1):98–102
Candida tropicalis arthritis in a patient with acute myeloid leukemia successfully treated with fluconazole: case report and review of the literature. Weers-Pothoff G, et al. **Infection** 1997 Mar–Apr;25(2):109–11 (25 ref.)
Clinical features and antibiotic treatment of septic arthritis and osteomyelitis due to Yersinia enterocolitica. Crowe M, et al. **J Med Microbiol** 1996 Oct;45(4):302–9 (55 ref.)
Microbiological tolerance in orthopaedic infections: delayed response of septic arthritis and osteomyelitis of the hip due to infection with tolerant Staphylococcus aureus. Thometz JG, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):518–21
Successful therapy of Candida albicans arthritis with a sequential intravenous amphotericin B and oral fluconazole regimen. Barson WJ, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1119–22 (42 ref.)

EPIDEMIOLOGY

Incidence and sources of native and prosthetic joint infection: a community based prospective survey. Kaandorp CJ, et al. **Ann Rheum Dis** 1997 Aug;56(8):470–5
Lyme borreliosis in rheumatological practice: identification of Lyme arthritis and diagnostic aspects in a Swedish county with high endemicity. Berglund J, et al. **Br J Rheumatol** 1996 Sep;35(9):853–60
An 18 year clinical review of septic arthritis from tropical Australia. Morgan DS, et al. **Epidemiol Infect** 1996 Dec; 117(3):423–8
An outbreak of post-streptococcal reactive arthritis. Madhuri V, et al. **Indian J Med Res** 1997 Jun;105:249–53
Nursery outbreak of neonatal fungal arthritis treated with fluconazole. Merchant RH, et al. **J Trop Pediatr** 1997 Apr; 43(2):106–8
Neonatal septic arthritis. Halder D, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):600–5
[Septic arthritis in the last few decades (editorial)] Carreño Pérez L. **Rev Clin Esp** 1997 Aug;197(8):537–9 **(Spa)**
[Study of 112 patients with septic arthritis caused by pyogenic organisms and fungi: changes in the clinical spectrum during the last 2 decades] del Val del Amo N, et al. **Rev Clin Esp** 1997 Aug;197(8):540–4 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Bilateral pyogenic sacroiliitis following uncomplicated pregnancy and labor. Linnet KM, et al. **Acta Obstet Gynecol Scand** 1996 Nov;75(10):950–1
Candida arthritis after total knee arthroplasty—a case of successful treatment without prosthesis removal. Fukasawa N, et al. **Acta Orthop Scand** 1997 Jun;68(3):306–7
Group G streptococcal arthritis: case report and review of the literature. Bronze MS, et al. **Am J Med Sci** 1997 Apr; 313(4):239–43 (33 ref.)
Septic arthritis after arthroscopic anterior cruciate ligament reconstruction. Diagnosis and management. Williams RJ 3rd, et al. **Am J Sports Med** 1997 Mar–Apr;25(2):261–7
Pyogenic arthritis of the hip following an occult open fracture of the pubic rami—a case report. Thiagarajan P, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):590–1
Failure of arthroscopic meniscal repair following septic arthritis. Myerthall S, et al. **Arthroscopy** 1996 Dec; 12(6):746–8
Septic arthritis by Aspergillus fumigatus: a complication of corticosteroid infiltration [letter] García-Porrúa C, et al. **Br J Rheumatol** 1997 May;36(5):610–1
Mycoplasma felis septic arthritis in a patient with hypogammaglobulinemia. Bonilla HF, et al. **Clin Infect Dis** 1997 Feb;24(2):222–5
A diabetic man with persistent joint pain and infection. Cadle R, et al. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):177, 182–4
B7-1 and B7-2 monoclonal antibodies modulate the severity of murine Lyme arthritis. Anguita J, et al. **Infect Immun** 1997 Aug;65(8):3037–41
Septic arthritis caused by chronic osteomyelitis. Marsh JL, et al. **Iowa Orthop J** 1997;17:90–5
Vitamin A deficiency exacerbates murine Lyme arthritis. Cantorna MT, et al. **J Infect Dis** 1996 Oct;174(4):747–51
Pasteurella multocida infectious arthritis with acute gout after a cat bite. Butt TS, et al. **J Rheumatol** 1997 Aug; 24(8):1649–52 (56 ref.)
Septic arthritis of the hip in an adult following repeated femoral venipuncture. Fromm SE, et al. **Orthopedics** 1996 Dec;19(12):1047–8
Major histocompatibility complex class II region confers susceptibility to Staphylococcus aureus arthritis. Abdelnour A, et al. **Scand J Immunol** 1997 Mar;45(3):301–7
[Salmonella no typhi septic arthritis] Centelles Sales I, et al. **An Esp Pediatr** 1997 Jan;46(1):60–2 **(Spa)**

GENETICS

Immunoglobulin allotypes and genetic susceptibility to invasive Haemophilus influenzae type b and Staphylococcus aureus infections in South African children. Goddard EA, et al. **Pediatr Infect Dis J** 1996 May;15(5):419–24

IMMUNOLOGY

False-negative serological HLA-B27 typing results may be due to altered antigenic epitopes and can be detected by polymerase chain reaction. Kirveskari J, et al. **Br J Rheumatol** 1997 Feb;36(2):185–9
Identification and characterization of a DR4-restricted T cell epitope within chlamydia heat shock protein 60. Deane KH, et al. **Clin Exp Immunol** 1997 Sep;109(3):439–45
Infectious arthritis and immune dysfunction. **Curr Opin Rheumatol** 1997 Jul;9(4):B134–42
Infectious arthritis and immune dysfunction [editorial] Schoen RT. **Curr Opin Rheumatol** 1996 Jul;8(4):317–21 (15 ref.)
T-helper-cell cytokines in the early evolution of murine Lyme arthritis. Kang I, et al. **Infect Immun** 1997 Aug; 65(8):3107–11
Role of neutrophils in experimental septicemia and septic arthritis induced by Staphylococcus aureus. Verdrengh M, et al. **Infect Immun** 1997 Jul;65(7):2517–21
Apoptosis of Fashigh CD4+ synovial T cells by borrelia-reactive Fas-ligand(high) gamma delta T cells in Lyme arthritis. Vincent MS, et al. **J Exp Med** 1996 Dec 1;184(6):2109–17
Multiple T cell expansions are found in the blood and synovial fluid of patients with reactive arthritis. Allen RL, et al. **J Rheumatol** 1997 Sep;24(9):1750–7
Immunoglobulin allotypes and genetic susceptibility to invasive Haemophilus influenzae type b and Staphylococcus aureus infections in South African children. Goddard EA, et al. **Pediatr Infect Dis J** 1996 May;15(5):419–24
Major histocompatibility complex class II region confers susceptibility to Staphylococcus aureus arthritis. Abdelnour A, et al. **Scand J Immunol** 1997 Mar;45(3):301–7
Expression of TNF alpha in arthritis caused by caprine arthritis encephalitis virus. Lechner F, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):281–9

MICROBIOLOGY

Bone and joint infections caused by gram-negative bacteria. Kučišec-Tepeš N. **Acta Med Croatica** 1996;50(1):37–44 (39 ref.)
Citrobacter koseri osteomyelitis in an infant. Hayani KC. **Acta Paediatr Jpn** 1997 Jun;39(3):390–1
Viral infection as a cause of arthritis. Siegel LB, et al. **Am Fam Physician** 1996 Nov 1;54(6):2009–15
Host-microbe interaction in HLA-B27-associated diseases. Granfors K. **Ann Med** 1997 Apr;29(2):153–7
Mediterranean spotted fever and arthritis: comment on the article by Sundy et al [letter; comment] Cobeta-García JC, et al. **Arthritis Rheum** 1996 Dec;39(12):2088. Comment on: Arthritis Rheum 1996 Jan;39(1):175–6.
Reactive or septic arthritis? Comment on the article by Li et al [letter; comment] Schaeverbeke T, et al. **Arthritis Rheum** 1997 Mar;40(3):592–3. Comment on: Arthritis Rheum 1996 Jun;39(6):950–8.
Chlamydia pneumoniae—reactive arthritis and persistent infection [letter] Moling O, et al. **Br J Rheumatol** 1996 Nov;35(11):1189–90
Bacterial joint infections in England and Wales: analysis of bacterial isolates over a four year period. Ryan MJ, et al. **Br J Rheumatol** 1997 Mar;36(3):370–3
Brucellar oligoarthritis involving the left temporomandibular, left sternoclavicular and left ankle joints [letter] Adak B, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):122–3
Blocking of TNF-alpha and IL-1 inhibits leukocyte infiltration at early, but not at late stage of S. aureus-induced arthritis and the concomitant cartilage destruction in rabbits. Kimura M, et al. **Clin Immunol Immunopathol** 1997 Jan;82(1):18–25
Severe knee arthritis due to Eikenella corrodens following a human bite. Bonnet M, et al. **Clin Infect Dis** 1997 Jan; 24(1):80–1
Septic sternoclavicular arthritis caused by group B Streptococcus: case report and review. Carrascosa M, et al. **Clin Infect Dis** 1996 Mar;22(3):579–80 (9 ref.)
Isolated septic arthritis due to Streptococcus bovis. Grant RJ, et al. **Clin Infect Dis** 1997 May;24(5):1021
Staphylococcus cohnii: an unusual cause of primary septic arthritis in a patient with AIDS. Mastroianni A, et al. **Clin Infect Dis** 1996 Dec;23(6):1312–3
Pathological manifestations in murine Lyme disease: association with tissue invasion and spirochete persistence. Weis JJ, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S18–24
Decline of bone and joint infections attributable to haemophilus influenzae type b. Bowerman SG, et al. **Clin Orthop** 1997 Aug;(341):128–33
Neonatal polyarthritis caused by Salmonella bareilly [letter] Gupta P, et al. **Indian Pediatr** 1996 Apr;33(4):341–2
Role of the staphylococcal accessory gene regulator (sar) in septic arthritis. Nilsson IM, et al. **Infect Immun** 1996 Nov;64(11):4438–43
Arthritis severity and spirochete burden are determined by serotype in the Borrelia turicatae-mouse model of Lyme disease. Pennington PM, et al. **Infect Immun** 1997 Jan; 65(1):285–92
Use of the isolator 1.5 microbial tube for culture of synovial fluid from patients with septic arthritis. Yagupsky P, et al. **J Clin Microbiol** 1997 Sep;35(9):2410–2
Role of certain virulence factors in a murine model of Staphylococcus aureus arthritis. Gemmell CG, et al. **J Med Microbiol** 1997 Mar;46(3):208–13
Candida albicans arthritis one year after successful treatment of fungemia in a healthy infant. Swanson H, et al. **J Pediatr** 1996 Nov;129(5):688–94 (37 ref.)
Fusobacterium osteomyelitis and pyarthrosis: a classic case of Lemierre's syndrome. Stahlman GC, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):529–32
Pasteurella multocida arthritis of the shoulder associated with postsurgical lymphedema. Fellows L, et al. **J Rheumatol** 1996 Oct;23(10):1824–5
Coexistent gout and Mycobacterium avium-intracellulare arthritis in a renal transplant recipient. Czachor JS, et al. **Kidney Blood Press Res** 1997;20(1):62–3
Musculoskeletal infections in patients with human immunodeficiency virus infection. Vassilopoulos D, et al. **Medicine (Baltimore)** 1997 Jul;76(4):284–94 (129 ref.)
Culture of joint specimens in bacterial arthritis. Impact of blood culture bottle utilization. von Essen R. **Scand J Rheumatol** 1997;26(4):293–300
HLA-B27 presents a peptide from a polymorphic region of its own molecule with homology to proteins from arthritogenic bacteria. García F, et al. **Tissue Antigens** 1997 Jan;49(1):23–8
[Mycobacterium marinum. A rare cause of infection of the skin and joints] Byg KE, et al. **Ugeskr Laeger** 1997 Sep 1;159(36):5384–6 (Eng. Abstr.) **(Dan)**
[Acute gonarthritis—application of current diagnostic study methods exemplified by a case report] Gerber T, et al. **Ther Umsch** 1996 Oct;53(10):724–6 (Eng. Abstr.) **(Ger)**

ARTHRITIS, INFECTIOUS

[Arthritis after BCG treatment of bladder cancer. A rare complication] Rødevand E, et al.
Tidsskr Nor Laegeforen 1996 Nov 10;116(27):3231–2 (Eng. Abstr.) **(Nor)**

[Septic arthritis caused by Erysipelothrix rhusiopathiae (letter)] Bianchi-Llave JL, et al.
Enferm Infecc Microbiol Clin 1996 Aug–Sep;14(7):452–3 **(Spa)**

PATHOLOGY

Macrophage reactions in septic arthritis. Peters KM, et al. **Arch Orthop Trauma Surg** 1996;115(6):347–50

Coexistence of tuberculous and pyogenic arthritis [letter] Acebes JC, et al. **Clin Exp Rheumatol** 1995 Nov–Dec; 13(6):793

Group G streptococcal septic arthritis of an interphalangeal joint [letter] Marinella MA. **Clin Exp Rheumatol** 1996 Sep–Oct;14(5):577–8

Pathological manifestations in murine Lyme disease: association with tissue invasion and spirochete persistence. Weis JJ, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S18–24

Prednisolone reduces experimental arthritis, and inflammatory tissue destruction in SCID mice infected with Borrelia burgdorferi. Hurtenbach U, et al.
Int J Immunopharmacol 1996 May;18(5):281–8

PREVENTION & CONTROL

The effect of prophylactic penicillin treatment on the course of arthritis episodes in patients with Behçet's disease. A randomized clinical trial. Calgüneri M, et al.
Arthritis Rheum 1996 Dec;39(12):2062–5

Addition of corticosteroids to antibiotic treatment ameliorates the course of experimental Staphylococcus aureus arthritis. Sakiniene E, et al. **Arthritis Rheum** 1996 Sep;39(9):1596–605

Protection of rats against Mycoplasma arthritidis-induced arthritis by active and passive immunizations with two surface antigens. Washburn LR, et al.
Clin Diagn Lab Immunol 1997 May;4(3):321–7

Thyroxine administration prevents streptococcal cell wall-induced inflammatory responses. Rittenhouse PA, et al. **Endocrinology** 1997 Apr;138(4):1434–9

Prednisolone reduces experimental arthritis, and inflammatory tissue destruction in SCID mice infected with Borrelia burgdorferi. Hurtenbach U, et al.
Int J Immunopharmacol 1996 May;18(5):281–8

Evaluation of skin bacterial flora before and after aseptic preparation of clipped and nonclipped arthrocentesis sites in horses. Hague BA, et al. **Vet Surg** 1997 Mar–Apr; 26(2):121–5

RADIOGRAPHY

Septic arthritis in osteoarthritic hips. Authors' interpretation of radiograph was wrong [letter; comment] Howlett DC. **BMJ** 1996 Oct 12;313(7062):945. Comment on: BMJ 1996 Jul 6;313(7048):40–1.

[Septic arthritis of posterior lumbar facet joint] Ben Hamouda M, et al. **J Radiol** 1997 May;78(5):373–6 (10 ref.) (Eng. Abstr.) **(Fre)**

RADIONUCLIDE IMAGING

Evaluation of infections of the locomotor system with indium-111-labeled human IgG scintigraphy. Nijhof MW, et al. **J Nucl Med** 1997 Aug;38(8):1300–5

SURGERY

The role of pedicled or free fibular grafts in knee arthrodesis. Hallock GG. **Ann Plast Surg** 1997 Jul;39(1):60–3 (14 ref.)

Angioplasty balloon catheters used for distraction of the ankle joint. Sartoretti C, et al. **Arthroscopy** 1996 Feb; 12(1):82–6

Psoas muscle abscess associated with pyogenic sacroiliitis. Assalia A, et al. **Eur J Surg** 1996 May;162(5):415–7

Candida infection of a silicone metacarpophalangeal arthroplasty. Dunkley AB, et al. **J Hand Surg [Br]** 1997 Jun;22(3):423–4

Septic arthritis of adult hip treated by total hip replacement--a case report. Hsu YP, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1997 Mar; 13(3):195–9

THERAPY

Sporotrichal arthritis of the knee. Zacharias J, et al.
Am J Knee Surg 1997 Summer;10(3):171–4

Septic conditions of the shoulder--an up-dating of treatment strategies. Pfeiffenberger J, et al.
Arch Orthop Trauma Surg 1996;115(6):325–31

Is instillation drainage for the treatment of infected joints, bones and soft tissues still up to date? Schmidt J, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):149–52 (16 ref.)

Arthroscopically assisted treatment of acute septic knees in infants using the Micro-Joint Arthroscope. Sanchez AA, et al. **Arthroscopy** 1997 Jun;13(3):350–4

Recognition and management of bacterial arthritis. Cimmino MA. **Drugs** 1997 Jul;54(1):50–60 (60 ref.)

A practical guide to the diagnosis and management of bone and joint infections. Mader JT, et al. **Drugs** 1997 Aug; 54(2):253–64 (64 ref.)

Percutaneous drainage of septic glenohumoral arthritis. de Witte MT, et al. **Eur J Radiol** 1996 May;22(2):158–60

Treatment of Lyme arthritis. Cimmino MA, et al.
Infection 1996 Jan–Feb;24(1):91–3 (28 ref.)

A "minority" opinion about the diagnosis and treatment of Lyme arthritis. Graninger W. **Infection** 1996 Jan–Feb; 24(1):95–7

Pediatric septic arthritis. Matan AJ, et al. **Orthopedics** 1997 Jul;20(7):630–5; quiz 636–7 (74 ref.)

[Treatment of infectious osteoarthritis in children] Barthes X, et al. **Arch Pediatr** 1997 May;4(5):460–3 (18 ref.) (Eng. Abstr.) **(Fre)**

[Reduced penicillin-sensitivity pneumococcus arthritis and cellulitis. 2 uncommon sites (letter)] Le Moal G, et al.
Presse Med 1997 Mar 15;26(8):370–1 **(Fre)**

[Percutaneous drainage of septic hip arthritis in children] Griffet J, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(3):251–54 (Eng. Abstr.) **(Fre)**

[Septic arthritis in newborns and infants. Treatment of hip arthritis] Lejman T, et al.
Chir Narzadow Ruchu Ortop Pol 1996;61(6):567–77 (Eng. Abstr.) **(Pol)**

TRANSMISSION

Nosocomial neonatal septic arthritis. Abuekteish F, et al.
Eur J Pediatr 1996 Feb;155(2):102–5

ULTRASONOGRAPHY

[Ultrasonography in the diagnostic approach of septic arthritis] Mnif J, et al.
Rev Chir Orthop Reparatrice Appar Mot 1997;83(2):148–55 (Eng. Abstr.) **(Fre)**

VETERINARY

Arthrosonography--the use of diagnostic ultrasound in septic and traumatic arthritis in cattle--a retrospective study of 25 patients. Kofler J. **Br Vet J** 1996 Nov;152(6):683–98

Experimental septic arthritis in rabbits treated by a combination of antibiotic and steroid drugs. Wysenbeek AJ, et al. **Clin Exp Rheumatol** 1996 Sep–Oct;14(5):507–12

Evaluation of sodium hyaluronate therapy in induced septic arthritis in the horse. Brusie RW, et al.
Equine Vet J Suppl 1992 Feb;(11):18–23

Expression of TNF alpha in arthritis caused by caprine arthritis encephalitis virus. Lechner F, et al.
Vet Immunol Immunopathol 1996 Nov;54(1–4):281–9

Non-purulent arthritis in Danish slaughter pigs. I. A study of field cases. Buttenschon J, et al.
Zentralbl Veterinarmed A 1995 Dec;42(10):633–41

The association between tumour necrosis factor-alpha, interleukin-6 and microbiological findings in the synovial fluid of aborted and neonatal calves. Meirom R, et al.
Zentralbl Veterinarmed [B] 1996 Sep;43(7):439–44

[Septic arthritis of the hoof joint in the horse--diagnosis, radiologic changes and therapy] Stanek C.
Schweiz Arch Tierheilkd 1997;139(3):134–43 (Eng. Abstr.) **(Ger)**

VIROLOGY

A case of prolonged human parvovirus B19 DNA-emia associated with polyclonal B cell activation. Nobutoki T, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):348–51

Genetic stability among temporally and geographically diverse isolates of Barmah Forest virus. Poidinger M, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):230–4

Viruses and childhood arthritis. Petty RE. **Ann Med** 1997 Apr;29(2):149–52

HIV infection as a risk factor for septic arthritis. Saraux A, et al. **Br J Rheumatol** 1997 Mar;36(3):333–7

Viral arthritis. Schnitzer TJ, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):341–5 (17 ref.)

Microorganisms in chronic arthritis [letter; comment] Hasunuma T, et al. **Lancet** 1997 Jul 12;350(9071):145. Comment on: Lancet 1997 Apr 12;349(9058):1038–9.

Arthritis syndromes associated with human T cell lymphotropic virus type I infection. McCallum RM, et al. **Med Clin North Am** 1997 Jan;81(1):261–76 (64 ref.)

Varicella arthritis in childhood. Quintero-Del-Rio AI, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):241–3

[What is your diagnosis? Arthritis caused by human parvovirus B 19 (HPV B19 arthritis)] Jelk W, et al.
Schweiz Rundsch Med Prax 1996 Dec 3;85(49):1567–8 **(Ger)**

[Pre-exanthematous varicella arthritis: description of one case] Gutiérrez de Pando EL, et al. **An Esp Pediatr** 1997 May;46(5):511–2 **(Spa)**

ARTHRITIS, JUVENILE CHRONIC see **ARTHRITIS, JUVENILE RHEUMATOID**

ARTHRITIS, JUVENILE RHEUMATOID

International trials in paediatric rheumatology: current status. Lovell DJ. **Ann Med** 1997 Apr;29(2):165–7

Juvenile rheumatoid arthritis. Effects of disease activity and recombinant human growth hormone on insulin-like growth factor 1, insulin-like growth factor binding proteins 1 and 3, and osteocalcin. Davies UM, et al.
Arthritis Rheum 1997 Feb;40(2):332–40

Clinical and therapeutic aspects of juvenile-onset spondyloarthropathies. Malleson PN, et al.
Curr Opin Rheumatol 1997 Jul;9(4):291–4 (20 ref.)

Juvenile rheumatoid arthritis. Pertusi RM, et al.
J Am Osteopath Assoc 1996 May;96(5):298–302 (7 ref.)

Cytokines in juvenile arthritis [editorial; comment] Guerne PA. **Rev Rhum Engl Ed** 1996 Mar;63(3):153–8 (20 ref.). Comment on: Rev Rhum Engl Ed 1996 Mar;63(3):171–7.

[Still's disease] Amano M, et al.
Ryoikibetsu Shokogun Shirizu 1996;(15):165–7 (21 ref.) **(Jpn)**

BLOOD

Myelodysplastic features in juvenile rheumatoid arthritis. Yetgin S, et al. **Am J Hematol** 1997 Feb;54(2):166–9

Increased circulating nerve growth factor is directly correlated with disease activity in juvenile chronic arthritis. Falcini F, et al. **Ann Rheum Dis** 1996 Oct;55(10):745–8

Soluble tumour necrosis factor receptor levels reflect coagulation abnormalities in systemic juvenile chronic arthritis. de Benedetti F, et al. **Br J Rheumatol** 1997 May; 36(5):581–8

Interleukin-1 receptor antagonist in neonates, children and adults, and in patients with pauci- and polyarticular onset juvenile chronic arthritis. Müller K, et al.
Clin Exp Rheumatol 1997 Jul–Aug;15(4):439–44

Vitamin E, thiobarbituric acid reactive substance concentrations and superoxide dismutase activity in the blood of children with juvenile rheumatoid arthritis. Sklodowska M, et al. **Clin Exp Rheumatol** 1996 Jul–Aug; 14(4):433–9

Plasma lipids and lipoproteins in juvenile chronic arthritis. Bakkaloglu A, et al. **Clin Rheumatol** 1996 Jul;15(4):341–5

Interleukin-1, -6, and -8 levels in juvenile chronic arthritis. Ozen S, et al. **Clin Rheumatol** 1997 Mar;16(2):173–8

Rheumatoid factor positive, oligoarticular onset juvenile rheumatoid arthritis. Sailer M, et al. **J Rheumatol** 1997 Mar; 24(3):586–8

CLASSIFICATION

Classifying childhood arthritis. Southwood TR.
Ann Rheum Dis 1997 Feb;56(2):79–81

COMPLICATIONS

Psychosocial factors in children with idiopathic musculoskeletal pain: a prospective, longitudinal study. Aasland A, et al. **Acta Paediatr** 1997 Jul;86(7):740–6

Screening for coeliac disease in Dutch children with associated diseases. George EK, et al.
Acta Paediatr Suppl 1996 May;412:52–3

Successful treatment of juvenile rheumatoid arthritis associated haemophagocytic syndrome by cyclosporin A with transient exacerbation by conventional-dose G-CSF [letter; comment] Quesnel B, et al. **Br J Haematol** 1997 May;97(2):508–10. Comment on: Br J Haematol 1996 Jun;93(3):572–5.

Juvenile rheumatoid arthritis, Crohn's disease and Turner's syndrome [letter] Foeldvari I. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):120

Juvenile chronic arthritis and coeliac disease in The Netherlands. George EK, et al. **Clin Exp Rheumatol** 1996 Sep–Oct;14(5):571–5

Juvenile rheumatoid arthritis, Crohn's disease and Turner's syndrome: a novel association [letter] Scarpa R, et al.
Clin Exp Rheumatol 1996 Jul–Aug;14(4):449–50

Anaemia in juvenile chronic arthritis. Kirel B, et al.
Clin Rheumatol 1996 May;15(3):236–41

Secondary amyloidosis following juvenile chronic arthritis. Sarkar B, et al. **Indian Pediatr** 1996 Feb;33(2):125–7

Prevalence of uveitis in an outpatient juvenile arthritis clinic: onset of uveitis more than a decade after onset of arthritis. Akduman L, et al. **J Pediatr Ophthalmol Strabismus** 1997 Mar–Apr;34(2):101–6

Idiopathic limb edema in children with chronic arthritis: a multicenter report of 12 cases. Bardare M, et al.
J Rheumatol 1997 Feb;24(2):384–8

Bicipital synovial cysts in juvenile rheumatoid arthritis: clinical description and sonographic correlation. Bloom BJ, et al. **J Rheumatol** 1995 Oct;22(10):1953–5

The articular prognosis of pauciarticular onset juvenile arthritis is not influenced by the presence of uveitis. Cimaz RG, et al. **J Rheumatol** 1996 Feb;23(2):357–9

Crescentic glomerulonephritis in juvenile chronic arthritis. Dhib M, et al. **J Rheumatol** 1996 Sep;23(9):1636–40

Systemic juvenile rheumatoid arthritis and associated Isaacs' syndrome. Le Gars L, et al. **J Rheumatol** 1997 Jan; 24(1):178–80

Extracapillary glomerulonephritis in a patient with juvenile chronic arthritis. Mertens JC, et al. **J Rheumatol** 1996 Sep; 23(9):1633–5

The evolution of spondyloarthropathies in relation to gut histology. I. Clinical aspects. Mielants H, et al.
J Rheumatol 1995 Dec;22(12):2266–72

Thrombosis associated with antiphospholipid antibody in juvenile chronic arthritis. Andrews A, et al. **Lupus** 1997; 6(6):556–7

Abnormalities in skeletal growth in children with juvenile rheumatoid arthritis. Cassidy JT, et al.
Rheum Dis Clin North Am 1997 Aug;23(3):499–522 (145 ref.)

Growth retardation and bone loss as determinants of axial

osteopenia in juvenile chronic arthritis. Kotaniemi A. **Scand J Rheumatol** 1997;26(1):14–8

Dialysis treatment in children with amyloidosis due to juvenile rheumatoid arthritis. Sieniawska M, et al. **Turk J Pediatr** 1996 Jan–Mar;38(1):59–66

A case of juvenile ankylosing spondylitis and Crohn's disease. Unsal E, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):277–80

[A case from practice (363). Monoarthritis in juvenile chronic arthritis] Stalder H. **Schweiz Rundsch Med Prax** 1996 Nov 26;85(48):1559–61 **(Ger)**

[A case of macrophage activation syndrome developed with systemic juvenile rheumatoid arthritis] Imagawa T, et al. **Ryumachi** 1997 Jun;37(3):487–92 (Eng. Abstr.) **(Jpn)**

[Seven cases of hemophagocytic syndrome complicated with childhood collagen diseases] Wada Y, et al. **Ryumachi** 1996 Aug;36(4):637–43 (Eng. Abstr.) **(Jpn)**

[Chronic juvenile arthritis, hematuria and renal tuberculosis (letter)] Gómez Rodríguez N, et al. **An Med Interna** 1995 Sep;12(9):462–3 **(Spa)**

DIAGNOSIS

Preschool sarcoidosis mimicking juvenile rheumatoid arthritis: the significance of gallium scintigraphy and skin biopsy in the differential diagnosis. Sakurai Y, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):74–8

Pattern of joint involvement in children with Lyme arthritis. Huppertz HI, et al. **Br J Rheumatol** 1996 Oct;35(10):1016–8

Neurofibromatosis masquerading as monoarticular juvenile arthritis. Till SH, et al. **Br J Rheumatol** 1997 Feb; 36(2):286–8

Idiopathic multicentric osteolysis: a rare disease mimicking juvenile chronic arthritis [letter] Costa MM, et al. **Clin Rheumatol** 1996 Jan;15(1):97–8

Clinical aspects of juvenile rheumatoid arthritis. Miller ML. **Curr Opin Rheumatol** 1997 Sep;9(5):423–7 (25 ref.)

Isolated digital swelling as the initial presentation of juvenile rheumatoid arthritis. Naidu SH, et al. **J Hand Surg [Am]** 1997 Jul;22(4):653–7

Infantile-onset multisystem inflammatory disease: a differential diagnosis of systemic juvenile rheumatoid arthritis [see comments] De Cunto CL, et al. **J Pediatr** 1997 Apr;130(4):551–6. Comment in: J Pediatr 1997 Apr;130(4):513–5.

Recognition of infantile-onset multisystem inflammatory disease as a unique entity [editorial; comment] Hashkes PJ, et al. **J Pediatr** 1997 Apr;130(4):513–5. Comment on: J Pediatr 1997 Apr;130(4):551–6.

Juvenile rheumatoid arthritis: ethnic differences in diagnostic types [editorial; comment] Graham TB, et al. **J Rheumatol** 1997 Sep;24(9):1677–9 (25 ref.). Comment on: J Rheumatol 1997 Sep;24(9):1826–9.

Reliability of the articular examination in children with juvenile rheumatoid arthritis: interobserver agreement and sources of disagreement. Guzmán J, et al. **J Rheumatol** 1995 Dec;22(12):2331–6

Bartonella henselae infection mimicking systemic onset juvenile chronic arthritis in a 2 1/2-year-old girl. Hayem F, et al. **J Rheumatol** 1996 Jul;23(7):1263–5

Serum levels of hyaluronic acid indicate the severity of joint symptoms in patients with systemic and polyarticular juvenile rheumatoid arthritis. Takei S, et al. **J Rheumatol** 1996 Nov;23(11):1956–62

Antiperinuclear factor in the diagnosis of juvenile rheumatoid arthritis. el-Gamal Y, et al. **Pediatr Allergy Immunol** 1995 Aug;6(3):165–9

Juvenile rheumatoid arthritis. Schaller JG. **Pediatr Rev** 1997 Oct;18(10):337–49 (17 ref.)

Juvenile (chronic) arthritis is not juvenile rheumatoid arthritis [editorial] Prieur AM. **Rev Rhum Engl Ed** 1996 Jan; 63(1):1–4

Imaging techniques in childhood arthritis. Harcke HT, et al. **Rheum Dis Clin North Am** 1997 Aug;23(3):523–44 (58 ref.)

Correlates of disablement in systemic onset juvenile chronic arthritis. A cross sectional study. van der Net J, et al. **Scand J Rheumatol** 1997;26(3):188–96

[The chronically ill child with rheumatoid arthritis] Michels H. **Z Arztl Fortbild Qualitatssich** 1997 Jun;91(3):219–26 (11 ref.) (Eng. Abstr.) **(Ger)**

[Thrombocytopenia, arthritis and enteropathy: a casual association or the expression of a unique entity?] Alpigiani MG, et al. **Pediatr Med Chir** 1996 Nov–Dec;18(6):583–4 (10 ref.) (Eng. Abstr.) **(Ita)**

[Rheumatoid arthritis and juvenile rheumatoid arthritis] Fukuda J, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (15):192–4 (7 ref.) **(Jpn)**

[Diagnosis of active inflammatory process in juvenile rheumatoid arthritis] Gromov AA. **Klin Lab Diagn** 1996 Jul–Aug;(4):22–4 (Eng. Abstr.) **(Rus)**

[Joint laxity simulating juvenile chronic arthritis] Duró JC. **An Esp Pediatr** 1997 Jan;46(1):94 **(Spa)**

DRUG THERAPY

Combination of second-line antirheumatic drugs. Haagsma CJ, et al. **Ann Med** 1997 Apr;29(2):169–73 (40 ref.)

Methotrexate-associated appearance and rapid progression of rheumatoid nodules in systemic-onset juvenile rheumatoid arthritis. Falcini F, et al. **Arthritis Rheum** 1997 Jan;40(1):175–8 (22 ref.)

Treatment of juvenile rheumatoid arthritis with oral type II collagen: comment on the article by Barnett et al [letter] Malleson P. **Arthritis Rheum** 1997 Feb;40(2):392–3

Methotrexate in the treatment of children with chronic arthritis—long-term observations of efficacy and safety. Huang JL. **Br J Clin Pract** 1996 Sep;50(6):311–4

Methotrexate treatment every other week in patients with juvenile chronic arthritis [letter] Cimaz R, et al. **Br J Rheumatol** 1996 Oct;35(10):1030–1

Suppression of fever and the acute-phase response in a patient with juvenile chronic arthritis treated with monoclonal antibody to tumour necrosis factor-alpha (cA2). Elliott MJ, et al. **Br J Rheumatol** 1997 May;36(5):589–93

Macrophage activation syndrome in systemic juvenile rheumatoid arthritis [editorial; comment] [see comments] Grom AA, et al. **J Pediatr** 1996 Nov;129(5):630–2. Comment on: J Pediatr 1996 Nov;129(5):750–4. Comment in: J Pediatr 1997 Jun;130(6):1012.

Efficacy of cyclosporine A in the treatment of macrophage activation syndrome in juvenile arthritis: report of five cases [see comments] Mouy R, et al. **J Pediatr** 1996 Nov; 129(5):750–4 (22 ref.). Comment in: J Pediatr 1996 Nov;129(5):630–2. Comment in: J Pediatr 1997 Jun;130(6):1012.

Folinic acid to prevent side effects of methotrexate in juvenile rheumatoid arthritis [letter; comment] Alarcón GS, et al. **J Rheumatol** 1996 Dec;23(12):2184–5. Comment on: J Rheumatol 1996 Feb;23(2):403–4.

Transient suppression of endogenous cortisol production after intraarticular steroid therapy for chronic arthritis in children. Huppertz HI, et al. **J Rheumatol** 1997 Sep; 24(9):1833–7

Folinic acid supplementation in patients with juvenile rheumatoid arthritis treated with methotrexate [see comments] Modesto C, et al. **J Rheumatol** 1996 Feb; 23(2):403–4. Comment in: J Rheumatol 1996 Dec;23(12):2184–5.

Juvenile rheumatoid arthritis. Schaller JG. **Pediatr Rev** 1997 Oct;18(10):337–49 (17 ref.)

Leukaemia during podophyllotoxin treatment in a patient with juvenile chronic arthritis [letter] Kauppi M, et al. **Scand J Rheumatol** 1996;25(5):340

6-methylprednisolone 'mini-pulses': a new modality of glucocorticoid treatment in systemic onset juvenile chronic arthritis. Picco P, et al. **Scand J Rheumatol** 1996;25(1):24–7

Growth retardation in non-steroid treated juvenile rheumatoid arthritis. Polito C, et al. **Scand J Rheumatol** 1997;26(2):99–103

[The use of n-3 fatty acids in chronic juvenile arthritis] Alpigiani MG, et al. **Pediatr Med Chir** 1996 Jul–Aug; 18(4):387–90 (Eng. Abstr.) **(Ita)**

[Nonconventional therapy in a case of systemic juvenile rheumatoid arthritis] Cocchi P, et al. **Pediatr Med Chir** 1996 May–Jun;18(3):319–20 (9 ref.) (Eng. Abstr.) **(Ita)**

[Update drug therapy of juvenile rheumatoid arthritis] Watanabe N. **Ryumachi** 1996 Aug;36(4):670–5 (8 ref.) **(Jpn)**

[Toxic effects of the second dose of sodium aurothiomalate in childhood systemic chronic arthritis] Bustabad Reyes S, et al. **An Esp Pediatr** 1997 Apr;46(4):391–3 **(Spa)**

ENZYMOLOGY

Increased bacterial urease activity in faeces in juvenile chronic arthritis: evidence of altered intestinal microflora? Malin M, et al. **Br J Rheumatol** 1996 Jul;35(7):689–94

EPIDEMIOLOGY

Clinical analysis of 570 cases with juvenile rheumatoid arthritis: results of a nationwide retrospective survey in Japan. Fujikawa S, et al. **Acta Paediatr Jpn** 1997 Apr; 39(2):245–9

Incidence of chronic juvenile rheumatic diseases in Finland during 1980–1990. Kaipiainen-Seppänen O, et al. **Clin Exp Rheumatol** 1996 Jul–Aug;14(4):441–4

Seasonal onset of systemic-onset juvenile rheumatoid arthritis. Feldman BM, et al. **J Pediatr** 1996 Oct; 129(4):513–8

Pediatric rheumatology in the United Kingdom: data from the British Pediatric Rheumatology Group National Diagnostic Register. Symmons DP, et al. **J Rheumatol** 1996 Nov;23(11):1975–80

ETHNOLOGY

Juvenile rheumatoid arthritis: ethnic differences in diagnostic types [editorial; comment] Graham TB, et al. **J Rheumatol** 1997 Sep;24(9):1677–9 (25 ref.). Comment on: J Rheumatol 1997 Sep;24(9):1826–9.

Juvenile rheumatoid arthritis in African Americans [see comments] Schwartz MM, et al. **J Rheumatol** 1997 Sep; 24(9):1826–9. Comment in: J Rheumatol 1997 Sep;24(9):1677–9.

ETIOLOGY

Does food intolerance play a role in juvenile chronic arthritis? Schrander JJ, et al. **Br J Rheumatol** 1997 Aug; 36(8):905–8 (41 ref.)

Interleukin 6 causes growth impairment in transgenic mice through a decrease in insulin-like growth factor-I. A model for stunted growth in children with chronic inflammation. De Benedetti F, et al. **J Clin Invest** 1997 Feb 15; 99(4):643–50

Evaluation of associations between breast feeding and subsequent development of juvenile rheumatoid arthritis. Rosenberg AM. **J Rheumatol** 1996 Jun;23(6):1080–2

[Etiological connection between juvenile rheumatoid arthritis and the chronic form of coxsackie virus infection] Lozovksaia LS, et al. **Vopr Virusol** 1996 May–Jun; 41(3):122–6 (Eng. Abstr.) **(Rus)**

GENETICS

Arthritis associated with deletion of 22q11.2: more common than previously suspected [letter] Keenan GF, et al. **Am J Med Genet** 1997 Sep 5;71(4):488

Juvenile rheumatoid arthritis in velo-cardio-facial syndrome: coincidence or unusual complication? Rasmussen SA, et al. **Am J Med Genet** 1996 Sep 6;64(4):546–50

Juvenile rheumatoid arthritis-like polyarthritis in chromosome 22q11.2 deletion syndrome (DiGeorge anomalad/velocardiofacial syndrome/conotruncal anomaly face syndrome). Sullivan KE, et al. **Arthritis Rheum** 1997 Mar;40(3):430–6

Juvenile chronic arthritis—a time for change? Donn RP, et al. **Eur J Immunogenet** 1996 Jun;23(3):245–60 (109 ref.)

T-cell receptor BV6S1 null alleles and HLA-DR1 haplotypes in polyarticular outcome juvenile rheumatoid arthritis. Grom AA, et al. **Hum Immunol** 1996 Feb; 45(2):152–6

Interleukin 6 causes growth impairment in transgenic mice through a decrease in insulin-like growth factor-I. A model for stunted growth in children with chronic inflammation. De Benedetti F, et al. **J Clin Invest** 1997 Feb 15; 99(4):643–50

VH4-34 (VH4.21) gene expression in the chronic arthritides of childhood: studies of associations with anti-lipid A antibodies, HLA antigens, and clinical features. Miller JJ 3rd, et al. **J Rheumatol** 1996 Dec;23(12):2132–9

Two new DPB1 alleles identified in a study of the genetics of susceptibility to pauciarticular juvenile rheumatoid arthritis. Steiner LL, et al. **Tissue Antigens** 1997 Mar;49(3 Pt 1):262–6

HISTORY

Chronic childhood arthritis: 100 years after the intuition of G. F. Still. Martini A. **Eur J Pediatr** 1996 Nov; 155(11):919–20

IMMUNOLOGY

The cytokine network in juvenile chronic arthritis. Woo P. **Ann Med** 1997 Apr;29(2):145–7 (14 ref.)

Patterns of expression of tumor necrosis factor alpha, tumor necrosis factor beta, and their receptors in synovia of patients with juvenile rheumatoid arthritis and juvenile spondylarthropathy. Grom AA, et al. **Arthritis Rheum** 1996 Oct;39(10):1703–10

Autoreactivity to human heat-shock protein 60 predicts disease remission in oligoarticular juvenile rheumatoid arthritis. Prakken AB, et al. **Arthritis Rheum** 1996 Nov; 39(11):1826–32

HLA-DR expression in synovial membrane of juvenile rheumatoid arthritis (JRA) versus osteoarthritis (OA). Farahat MN. **Biochem Soc Trans** 1997 May;25(2):207S

Synovial fluid T cell clones from oligoarticular juvenile arthritis patients display a prevalent Th1/Th0-type pattern of cytokine secretion irrespective of immunophenotype. Gattorno M, et al. **Clin Exp Immunol** 1997 Jul;109(1):4–11

Circulating levels of interleukin 1 beta and of interleukin 1 receptor antagonist in systemic juvenile chronic arthritis. De Benedetti F, et al. **Clin Exp Rheumatol** 1995 Nov–Dec; 13(6):779–84

Prevalence of anti-neutrophil cytoplasmic antibodies (ANCA) in juvenile chronic arthritis. Speckmaier M, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):211–6

Juvenile chronic arthritis—a time for change? Donn RP, et al. **Eur J Immunogenet** 1996 Jun;23(3):245–60 (109 ref.)

T-cell receptor BV6S1 null alleles and HLA-DR1 haplotypes in polyarticular outcome juvenile rheumatoid arthritis. Grom AA, et al. **Hum Immunol** 1996 Feb; 45(2):152–6

T-cell reactivity to human HSP60 in oligo-articular juvenile chronic arthritis is associated with a favorable prognosis and the generation of regulatory cytokines in the inflamed joint. Prakken AB, et al. **Immunol Lett** 1997 Jun 1; 57(1-3):139–42 (20 ref.)

Immunity to cartilage link protein in patients with juvenile rheumatoid arthritis. Guerassimov A, et al. **J Rheumatol** 1997 May;24(5):959–64

VH4-34 (VH4.21) gene expression in the chronic arthritides of childhood: studies of associations with anti-lipid A antibodies, HLA antigens, and clinical features. Miller JJ 3rd, et al. **J Rheumatol** 1996 Dec;23(12):2132–9

Anti-lipid A antibodies in childhood arthritis: methods of immobilization affect quantitation and crossreactivity measured by ELISA. Miller JJ 3rd, et al. **J Rheumatol** 1996 Dec;23(12):2125–31

Antineutrophil cytoplasmic antibodies in juvenile chronic arthritis. Mulder L, et al. **J Rheumatol** 1997 Mar; 24(3):568–75

Antibodies to the 45 kDa DEK nuclear antigen in pauciarticular onset juvenile rheumatoid arthritis and iridocyclitis: selective association with MHC gene. Murray KJ, et al. **J Rheumatol** 1997 Mar;24(3):560–7

A killing defect of natural killer cells as an underlying immunologic abnormality in childhood systemic lupus

erythematosus. Yabuhara A, et al. **J Rheumatol** 1996 Jan; 23(1):171–7

Evolution of the T cell receptor beta repertoire from synovial fluid T cells of patients with juvenile onset rheumatoid arthritis. Zhang H, et al. **J Rheumatol** 1997 Jul; 24(7):1396–402

Delayed repair of DNA damage by ionizing radiation in cells from patients with juvenile systemic lupus erythematosus and rheumatoid arthritis. McCurdy D, et al. **Radiat Res** 1997 Jan;147(1):48–54

Major histocompatibility complex markers and disease heterogeneity in one hundred eight patients with systemic onset juvenile chronic arthritis. Desaymard C, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):9–16

HLA class II genes in Latvian patients with juvenile rheumatoid arthritis. Rumba I, et al. **Tissue Antigens** 1997 Jan;49(1):56–60

METABOLISM

Differences in synovial fluid cytokine levels between juvenile and adult rheumatoid arthritis. De Benedetti F, et al. **J Rheumatol** 1997 Jul;24(7):1403–9

Immunohistological characteristics of T cell infiltrates in different forms of childhood onset chronic arthritis. Murray KJ, et al. **J Rheumatol** 1996 Dec;23(12):2116–24

NURSING

Juvenile arthritis: a nursing perspective. Hartley B, et al. **J Pediatr Nurs** 1997 Apr;12(2):100–9 (16 ref.)

PATHOLOGY

Myelodysplastic features in juvenile rheumatoid arthritis. Yetgin S, et al. **Am J Hematol** 1997 Feb;54(2):166–9

Identification of childhood arthritis in archaeological material: juvenile rheumatoid arthritis versus juvenile spondyloarthropathy. Rothschild BM, et al. **Am J Phys Anthropol** 1997 Feb;102(2):249–64

Effects of systemic onset juvenile rheumatoid arthritis on facial morphology and temporomandibular joint form and function. Hanna VE, et al. **J Rheumatol** 1996 Jan; 23(1):155–8

The temporomandibular joint in juvenile rheumatoid arthritis: Part II. Relationship between computed tomographic and clinical findings. Hu YS, et al. **Pediatr Dent** 1996 Jul–Aug;18(4):312–9

PHYSIOPATHOLOGY

Correlation between conventional disease activity measures in juvenile chronic arthritis. Ravelli A, et al. **Ann Rheum Dis** 1997 Mar;56(3):197–200

Cytokines in juvenile rheumatoid arthritis. De Benedetti F, et al. **Curr Opin Rheumatol** 1997 Sep;9(5):428–33 (54 ref.)

Outcome in pediatric rheumatic disease. Graham TB, et al. **Curr Opin Rheumatol** 1997 Sep;9(5):434–9 (32 ref.)

Middle ear involvement in children with chronic rheumatoid juvenile arthritis. Giannini P, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S30–3

Altered body water distribution in subjects with juvenile rheumatoid arthritis and its effects on the measurement of water compartments from bioelectric impedance. Bedogni G, et al. **Eur J Clin Nutr** 1996 Jun;50(6):335–9

Functional alpha 1–adrenergic receptors on leukocytes of patients with polyarticular juvenile rheumatoid arthritis. Heijnen CJ, et al. **J Neuroimmunol** 1996 Dec;71(1–2):223–6

Macrophage activation syndrome in systemic juvenile rheumatoid arthritis [editorial; comment] [see comments] Grom AA, et al. **J Pediatr** 1996 Nov;129(5):630–2. Comment on: J Pediatr 1996 Nov;129(5):750–4. Comment in: J Pediatr 1997 Jun;130(6):1012.

The articular prognosis of pauciarticular onset juvenile arthritis is not influenced by the presence of uveitis. Cimaz RG, et al. **J Rheumatol** 1996 Feb;23(2):357–9

Physical fitness and its relationship to other indices of health status in children with chronic arthritis. Malleson PN, et al. **J Rheumatol** 1996 Jun;23(6):1059–65

Effects of polyarticular and pauciarticular onset juvenile rheumatoid arthritis on facial and mandibular growth. Mericle PM, et al. **J Rheumatol** 1996 Jan;23(1):159–65

Temporomandibular joint and mandibular growth alterations in patients with juvenile rheumatoid arthritis. Ronchezel MV, et al. **J Rheumatol** 1995 Oct;22(10):1956–61

The Juvenile Arthritis Functional Status Index (JASI): a validation study. Wright FV, et al. **J Rheumatol** 1996 Jun; 23(6):1066–79

Visual outcomes prognosticators in juvenile rheumatoid arthritis–associated uveitis. Dana MR, et al. **Ophthalmology** 1997 Feb;104(2):236–44

Dynamics of fever and the cytokine network in systemic juvenile arthritis. Prieur AM, et al. **Rev Rhum Engl Ed** 1996 Mar;63(3):163–70

Interleukin–6 and soluble interleukin–2 receptor in juvenile chronic arthritis: correlations with clinical and laboratory parameters [see comments] Spadaro A, et al. **Rev Rhum Engl Ed** 1996 Mar;63(3):171–7. Comment in: Rev Rhum Engl Ed 1996 Mar;63(3):153–8.

The cytokine network in juvenile chronic arthritis. Woo P. **Rheum Dis Clin North Am** 1997 Aug;23(3):491–8 (25 ref.)

Quantitative and qualitative assessments of pain in children with juvenile chronic arthritis based on the Norwegian version of the Pediatric Pain Questionnaire. Benestad B, et al. **Scand J Rheumatol** 1996;25(5):293–9

Cold pressor pain: comparing responses of juvenile arthritis patients and their parents. Thastum M, et al. **Scand J Rheumatol** 1997;26(4):272–9

PSYCHOLOGY

Chronic pain and emotional distress in children and adolescents. Varni JW, et al. **J Dev Behav Pediatr** 1996 Jun;17(3):154–61

A social support intervention for parents of children with juvenile rheumatoid arthritis: results of a randomized trial. Ireys HT, et al. **J Pediatr Psychol** 1996 Oct;21(5):633–41

Mental health of mothers of children with juvenile rheumatoid arthritis: appraisal as a mediator. Lustig JL, et al. **J Pediatr Psychol** 1996 Oct;21(5):719–33

Long–term health outcomes and quality of life in American and Italian inception cohorts of patients with juvenile rheumatoid arthritis. I. Outcome status. Ruperto N, et al. **J Rheumatol** 1997 May;24(5):945–51

Long–term health outcomes and quality of life in American and Italian inception cohorts of patients with juvenile rheumatoid arthritis. II. Early predictors of outcome. Ruperto N, et al. **J Rheumatol** 1997 May;24(5):952–8

RADIOGRAPHY

Cricoarytenoid arthritis as an early sign of juvenile chronic arthritis. Bertolani MF, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):115–6

Juvenile chronic arthritis: radiologic manifestations in the foot and ankle. Tong G, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):260–2

The temporomandibular joint in juvenile rheumatoid arthritis: Part II. Relationship between computed tomographic and clinical findings. Hu YS, et al. **Pediatr Dent** 1996 Jul–Aug;18(4):312–9

REHABILITATION

Validation of the Italian version of the Stanford Childhood Health Assessment Questionnaire for measuring functional status in children with chronic arthritis. Fantini F, et al. **Clin Exp Rheumatol** 1995 Nov–Dec;13(6):785–91

Long–term health outcomes and quality of life in American and Italian inception cohorts of patients with juvenile rheumatoid arthritis. II. Early predictors of outcome. Ruperto N, et al. **J Rheumatol** 1997 May;24(5):952–8

Long–term health outcomes and quality of life in American and Italian inception cohorts of patients with juvenile rheumatoid arthritis. I. Outcome status. Ruperto N, et al. **J Rheumatol** 1997 May;24(5):945–51

[The EHF therapy of children with juvenile rheumatoid arthritis] Shliapak EA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov–Dec; (6):19–21 (Eng. Abstr.) **(Rus)**

SURGERY

Anaesthesia with the difficult airway [letter; comment] Cormack RS. **Anaesthesia** 1997 Jul;52(7):710. Comment on: Anaesthesia 1997 Mar;52(3):285–6.

Total hip arthroplasty with cement for juvenile rheumatoid arthritis. Results at a minimum of ten years in patients less than thirty years old. Chmell MJ, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):44–52

Orthopaedic management of juvenile chronic arthritis (JCA). Pahle JA. **Z Rheumatol** 1996 Nov–Dec;55(6):376–87 (23 ref.)

[Total hip prosthesis for chronic juvenile arthritis. A review of a series of 34 prosthesis] Journeau P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):508–21 (Eng. Abstr.) **(Fre)**

THERAPY

Physiotherapy and occupational therapy for juvenile chronic arthritis: custom and practice in five centres in the UK, USA and Canada. Hackett J, et al. **Br J Rheumatol** 1996 Jul;35(7):695–9

Chronic arthritis in children. Szer IS. **Compr Ther** 1997 Feb; 23(2):124–9 (12 ref.)

Clinical aspects of juvenile rheumatoid arthritis. Miller ML. **Curr Opin Rheumatol** 1997 Sep;9(5):423–7 (25 ref.)

Juvenile rheumatoid arthritis. Simmons BP, et al. **Hand Clin** 1996 Aug;12(3):573–89 (66 ref.)

Clinically important change in treatment trials for juvenile rheumatoid arthritis [letter; comment] Cabral DA. **J Rheumatol** 1997 Mar;24(3):608; discussion 609–10. Comment on: J Rheumatol 1996 Apr;23(4):786–8. Comment on: J Rheumatol 1996 May;23(5):919–24.

Pediatric rheumatology in the 21st century—where's the common sense? [letter] Lehman TJ. **J Rheumatol** 1997 Sep; 24(9):1855–6

Treatment of juvenile rheumatoid arthritis: approach to patients who fail standard therapy. Rosenberg AM. **J Rheumatol** 1996 Sep;23(9):1652–6

ULTRASONOGRAPHY

Bicipital synovial cysts in juvenile rheumatoid arthritis: clinical description and sonographic correlation. Bloom BJ, et al. **J Rheumatol** 1995 Oct;22(10):1953–5

Ultrasonography in the early diagnosis of hip joint involvement in juvenile rheumatoid arthritis. Fedrizzi MS, et al. **J Rheumatol** 1997 Sep;24(9):1820–5

VIROLOGY

Viruses and childhood arthritis. Petty RE. **Ann Med** 1997 Apr;29(2):149–52

A search for persistent rubella virus infection in persons with chronic symptoms after rubella and rubella immunization and in patients with juvenile rheumatoid arthritis. Frenkel LM, et al. **Clin Infect Dis** 1996 Feb;22(2):287–94

Microbial DNA in the synovium—a role in aetiology or a mere bystander? [comment] [see comments] Kingsley G. **Lancet** 1997 Apr 12;349(9058):1038–9. Comment on: Lancet 1997 Apr 12;349(9058):1063–5. Comment in: Lancet 1997 Jul 12;350(9071):145.

Persistence of parvovirus B19 DNA in synovial membranes of young patients with and without chronic arthropathy [see comments] Söderlund M, et al. **Lancet** 1997 Apr 12; 349(9058):1063–5. Comment in: Lancet 1997 Apr 12;349(9058):1038–9.

[A girl with systemic onset juvenile rheumatoid arthritis suspected to be due to human parvovirus B19 infection] Wada Y, et al. **Kansenshogaku Zasshi** 1997 May; 71(5):468–73 (Eng. Abstr.) **(Jpn)**

ARTHRITIS, POSTINFECTIOUS see **ARTHRITIS, REACTIVE**

ARTHRITIS, PSORIATIC

Clinical, immunopathogenic, and therapeutic aspects of psoriatic arthritis. FitzGerald O, et al. **Curr Opin Rheumatol** 1997 Jul;9(4):295–301 (60 ref.)

Psoriatic arthritis in children. Häfner R, et al. **Curr Opin Rheumatol** 1996 Sep;8(5):467–72 (24 ref.)

Clinical and therapeutic aspects of juvenile–onset spondyloarthropathies. Malleson PN, et al. **Curr Opin Rheumatol** 1997 Jul;9(4):291–4 (20 ref.)

[Psoriatic arthritis] Omori H. **Ryoikibetsu Shokogun Shirizu** 1996;(15):345–6 (8 ref.) **(Jpn)**

BLOOD

Low serum hyaluronan in psoriatic arthritis patients in comparison to rheumatoid arthritis patients. Partsch G, et al. **Clin Exp Rheumatol** 1996 Jul–Aug;14(4):381–6

Interleukin–6 and soluble interleukin–2–receptor in psoriatic arthritis: correlations with clinical and laboratory parameters. Spadaro A, et al. **Clin Exp Rheumatol** 1996 Jul–Aug;14(4):413–6

CHEMICALLY INDUCED

Psoriatic arthritis and minocycline induced autoantibodies. Leitch DN, et al. **Clin Rheumatol** 1997 May;16(3):317–8

Accelerated nodulosis in a patient with psoriasis and arthritis during treatment with methotrexate [see comments] Berris B, et al. **J Rheumatol** 1995 Dec;22(12):2359–60. Comment in: J Rheumatol 1996 Nov;23(11):2004.

[Interferon–alpha and development of psoriatic arthropathy (letter)] Piqueras Alcol B, et al. **An Med Interna** 1996 Oct; 13(10):512–3 **(Spa)**

CLASSIFICATION

The classification of psoriatic arthritis: what will happen in the future? Scarpa R, et al. **J Am Acad Dermatol** 1997 Jan; 36(1):78–83 (33 ref.)

Isolated peripheral enthesitis and/or dactylitis: a subset of psoriatic arthritis. Salvarani C, et al. **J Rheumatol** 1997 Jun; 24(6):1106–10

Juvenile psoriatic arthritis: a new clinical entity? [letter; comment] Scarpa R. **J Rheumatol** 1997 Feb;24(2):408–9. Comment on: J Rheumatol 1996 Jan;23(1):166–70.

COMPLICATIONS

Psoriatic arthritis and hypopyon–iridocyclitis. Possible mechanism of the association of psoriasis and anterior uveitis. Iijima S, et al. **Dermatology** 1996;193(4):295–9 (24 ref.)

Alleviation of HIV–associated psoriasis and psoriatic arthritis with cyclosporine. Tourne L, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):501–2

Psoriatic spondyloarthropathy with secondary amyloidosis. Ahmed Q, et al. **J Rheumatol** 1996 Jun;23(6):1107–10 (28 ref.)

Incidence of osteoperiostitis of the great toe in psoriatic arthritis. Goupille P, et al. **J Rheumatol** 1996 Sep; 23(9):1553–6

Listeria monocytogenes joint infection in a patient with psoriatic arthritis [letter] Marangos MN, et al. **J Rheumatol** 1996 Nov;23(11):2005–6 (3 ref.)

Psoriatic arthritis or overlap syndrome. Rechichi CF, et al. **Ophthalmologica** 1997;211(4):266–7

Prospective study of anterior chest wall involvement in ankylosing spondylitis and psoriatic arthritis. Fournié B, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):22–5

Coexisting hyperparathyroidism, renal osteodystrophy and psoriatic arthritis. Marhoffer W, et al. **Rheumatol Int** 1997; 17(2):79–82

Cervical myelopathy in psoriatic spondylitis. Akagi S, et al. **Scand J Rheumatol** 1996;25(5):337–9

DIAGNOSIS

Validation of the revised and expanded version of the Arthritis Impact Measurement Scales for patients with psoriatic Arthritis. Husted J, et al. **J Rheumatol** 1996 Jun; 23(6):1015–9

Relationship of the Arthritis Impact Measurement Scales to changes in articular status and functional performance in patients with psoriatic arthritis. Husted J, et al. **J Rheumatol** 1996 Nov;23(11):1932–7

Juvenile psoriatic arthritis: followup and evaluation of diagnostic criteria [see comments] Roberton DM, et al. **J Rheumatol** 1996 Jan;23(1):166–70. Comment in: J Rheumatol 1997 Feb;24(2):408–9.

Accelerated nodulosis in a patient with psoriasis and arthritis during treatment with methotrexate [letter; comment] Smith MD. **J Rheumatol** 1996 Nov;23(11):2004. Comment on: J Rheumatol 1995 Dec;22(12):2359–60.

Destructive polyarthritis due to a group B streptococcus. Straus C, et al. **Rev Rhum Engl Ed** 1997 May;64(5):339–41

[Psoriatic onycho–pachydermo–periostitis (POPP)] Schröder K, et al. **Hautarzt** 1997 Jul;48(7):500–3 (17 ref.) (Eng. Abstr.) **(Ger)**

[Differential diagnosis and therapy of psoriatic arthritis] Oppolzer R, et al. **Z Hautkr** 1976 Feb 15;51(4):131–42 (38 ref.) **(Ger)**

[Rosenthal's syndrome (hemophilia C) in a patient with psoriatic arthritis (a clinical case)] Nasonova VA, et al. **Ter Arkh** 1997;69(5):77–8 **(Rus)**

[Prognostic factors in the evolution of psoriatic arthritis] Ros Expósito S, et al. **Med Clin (Barc)** 1997 Feb 1;108(4):133–5 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Comparison of sulfasalazine and placebo in the treatment of psoriatic arthritis. A Department of Veterans Affairs Cooperative Study. Clegg DO, et al. **Arthritis Rheum** 1996 Dec;39(12):2013–20

Treatment of psoriatic arthritis with extracorporeal photochemotherapy and conventional psoralen–ultraviolet A irradiation. Vahlquist C, et al. **Arthritis Rheum** 1996 Sep; 39(9):1519–23

Anti–inflammatory efficacy of low–dose cyclosporin A in psoriatic arthritis. A prospective multicentre study. Mahrle G, et al. **Br J Dermatol** 1996 Nov;135(5):752–7

Sulphasalazine in psoriatic arthritis: a randomized, multicentre, placebo–controlled study. Combe B, et al. **Br J Rheumatol** 1996 Jul;35(7):664–8

Therapy for psoriatic arthritis: sometimes a conflict for psoriasis [editorial] Griffiths CE. **Br J Rheumatol** 1997 Apr; 36(4):409–10

Psoriatic arthritis: a quantitative overview of therapeutic options. The Psoriatic Arthritis Meta–Analysis Study Group. Jones G, et al. **Br J Rheumatol** 1997 Jan;36(1):95–9

Cyclosporin A in the long–term treatment of psoriatic arthritis [letter] Porzio F, et al. **Br J Rheumatol** 1996 Dec; 35(12):1331

Methotrexate–induced pneumonitis in patients with rheumatoid arthritis and psoriatic arthritis: report of five cases and review of the literature. Salaffi F, et al. **Clin Rheumatol** 1997 May;16(3):296–304 (53 ref.)

An atypical psoriatic spondylitis case, successfully treated with methotrexate. Tüzün C, et al. **Clin Rheumatol** 1996 Jul;15(4):403–9

Colloidal silicic acid for the treatment of psoriatic skin lesions, arthropathy and onychopathy. A pilot study. Lassus A. **J Int Med Res** 1997 Jul–Aug;25(4):206–9

DNA hypomethylation in inflammatory arthritis: reversal with methotrexate. Kim YI, et al. **J Lab Clin Med** 1996 Aug;128(2):165–72

Is methotrexate really effective in patients with psoriatic arthritis? [letter] Goupille P, et al. **J Rheumatol** 1995 Dec; 22(12):2369–70

Treatment of HIV associated psoriatic arthritis with oral gold. Shapiro DL, et al. **J Rheumatol** 1996 Oct; 23(10):1818–20

Therapy with cyclosporine in psoriatic arthritis. Olivieri I, et al. **Semin Arthritis Rheum** 1997 Aug;27(1):36–43 (69 ref.)

[Differential diagnosis and therapy of psoriatic arthritis] Oppolzer R, et al. **Z Hautkr** 1976 Feb 15;51(4):131–42 (38 ref.) **(Ger)**

EPIDEMIOLOGY

Incidence of psoriatic arthritis in Finland. Kaipiainen–Seppänen O. **Br J Rheumatol** 1996 Dec; 35(12):1289–91

Presence of psoriasis does not influence the presentation or short–term outcome of patients with early inflammatory polyarthritis. Harrison BJ, et al. **J Rheumatol** 1997 Sep; 24(9):1744–9

[Prevalence of post–traumatic psoriatic rheumatism (letter)] Punzi L, et al. **Presse Med** 1997 Mar 22;26(9):420 **(Fre)**

ETIOLOGY

Vasculitis and psoriatic arthritis associated with Down's syndrome. Jorgensen C, et al. **Clin Exp Rheumatol** 1995 Nov–Dec;13(6):749–51

Psoriatic and seronegative inflammatory arthropathy associated with a traumatic onset: 4 cases and a review of the literature. Sandorfi N, et al. **J Rheumatol** 1997 Jan; 24(1):187–92 (23 ref.)

Psoriatic arthritis with spinal involvement in a patient receiving alpha–interferon for chronic hepatitis C. Lombardini F, et al. **Scand J Rheumatol** 1997;26(1):58–60

[Post–traumatic psoriatic rheumatism and post–traumatic spondylarthropathies (letter)] Doury P. **Presse Med** 1997 Feb 15;26(4):172 **(Fre)**

[Comment on H. Kaiser: "Current aspects of SAPHO syndrome" (letter)] Dihlmann W, et al. **Z Rheumatol** 1996 Jan–Feb;55(1):73–4; discussion 75 **(Ger)**

[Comment on "Current aspects of SAPHO syndrome" by H. Kaiser (letter)] Freyschmidt J, et al. **Z Rheumatol** 1996 Jan–Feb;55(1):69–70; discussion 75 **(Ger)**

[Comment on H. Kaiser: "Current aspects of SAPHO syndrome" (letter)] Schilling F, et al. **Z Rheumatol** 1996 Jan–Feb;55(1):71–2; discussion 75 **(Ger)**

GENETICS

LMP polymorphisms do not influence disease expression in psoriatic arthritis. Höhler T, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):661–4

TAP–polymorphisms in juvenile onset psoriasis and psoriatic arthritis. Höhler T, et al. **Hum Immunol** 1996 Nov; 51(1):49–54

A TNF–alpha promoter polymorphism is associated with juvenile onset psoriasis and psoriatic arthritis. Höhler T, et al. **J Invest Dermatol** 1997 Oct;109(4):562–5

HISTORY

Psoriatic arthritis in a fifth–century Judean Desert monastery. Zias J, et al. **Am J Phys Anthropol** 1996 Dec;101(4):491–502

IMMUNOLOGY

Value of synovial fluid interleukin–1 beta determination in predicting the outcome of psoriatic monoarthritis. Punzi L, et al. **Ann Rheum Dis** 1996 Sep;55(9):642–4

Antibodies to streptococcal cell wall in psoriatic arthritis and cutaneous psoriasis. Rantakokko K, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):399–404

Psoriatic arthritis and minocycline induced autoantibodies. Leitch DN, et al. **Clin Rheumatol** 1997 May;16(3):317–8

CD70 expression on T–cell subpopulations: study of normal individuals and patients with chronic immune activation. Brugnoni D, et al. **Immunol Lett** 1997 Feb;55(2):99–104

Interleukin–2 is found in the synovium of psoriatic arthritis and spondyloarthritis, not in rheumatoid arthritis. Wong WM, et al. **Scand J Rheumatol** 1996;25(4):239–45

Significance of antibodies to streptococcal M protein in psoriatic arthritis and their association with HLA–A*0207. Muto M, et al. **Tissue Antigens** 1996 Dec;48(6):645–50

[Expression of IL8 in psoriatic synovitis] König A, et al. **Verh Dtsch Ges Pathol** 1996;80:330 **(Ger)**

METABOLISM

Expression of the cutaneous lymphocyte antigen and its counter–receptor E–selectin in the skin and joints of patients with psoriatic arthritis. Jones SM, et al. **Br J Rheumatol** 1997 Jul;36(7):748–57

Highly increased levels of tumor necrosis factor–alpha and other proinflammatory cytokines in psoriatic arthritis synovial fluid. Partsch G, et al. **J Rheumatol** 1997 Mar; 24(3):518–23

PATHOLOGY

Mast cells in the synovium of patients with psoriasis arthropathy [letter] Yamamoto T, et al. **Dermatology** 1997; 195(1):73–4

Rupioid psoriasis associated with arthropathy. Wang JL, et al. **J Dermatol** 1997 Jan;24(1):46–9

Correlations between peripheral and axial radiological changes in patients with psoriatic polyarthritis. Taccari E, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):17–23

[Expression of IL8 in psoriatic synovitis] König A, et al. **Verh Dtsch Ges Pathol** 1996;80:330 **(Ger)**

PHYSIOPATHOLOGY

Handicap in inflammatory arthritis. Harwood RH, et al. **Br J Rheumatol** 1996 Sep;35(9):891–7

Physical fitness and its relationship to other indices of health status in children with chronic arthritis. Malleson PN, et al. **J Rheumatol** 1996 Jun;23(6):1059–65

RADIOGRAPHY

Correlations between peripheral and axial radiological changes in patients with psoriatic polyarthritis. Taccari E, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):17–23

The seronegative spondyloarthropathies. Kettering JM, et al. **Semin Roentgenol** 1996 Jul;31(3):220–8 (18 ref.)

[Comments on the contribution by Ch. Marx et al. Tumorous space–occupying lesion of the os ilium (letter; comment)] Schilling F. **Radiologe** 1996 Feb;36(2):174. Comment on: Radiologe 1995 Sep;35(9):617–9. **(Ger)**

[Lumbo–sacroiliac hyperostosis with retroperitoneal fibrosis in spondarthritis hyperostotical pustulo–psoriatica—with sternocostoclavicular hyperostosis and superior and inferior venous obstruction syndrome: pathogenetic hypothesis of fibro–osteopathia psoriatica] Schilling F, et al. **Z Rheumatol** 1996 Sep–Oct;55(5):331–47 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

[The "bull horn sign"—scintigraphic pattern in sternocostoclavicular hyperostosis and pustular arthro–osteitis] Freyschmidt J, et al. **Z Rheumatol** 1997 May–Jun;56(3):136–43 (Eng. Abstr.) **(Ger)**

SURGERY

Surgery of psoriatic arthritis of the hand. Nalebuff EA. **Hand Clin** 1996 Aug;12(3):603–14 (16 ref.)

Surgical arthrodesis of the sternomanubrial joint in a patient with psoriatic arthritis. Naranja RJ Jr, et al. **J Shoulder Elbow Surg** 1997 Mar–Apr;6(2):156–9

THERAPY

Management of spondyloarthropathies. Cuellar ML, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):288–95 (52 ref.)

Demographic evaluation of successful antipsoriatic climatotherapy at the Dead Sea (Israel) DMZ Clinic. Harari M, et al. **Int J Dermatol** 1997 Apr;36(4):304–8

Validating the SF–36 health survey questionnaire in patients with psoriatic arthritis. Husted JA, et al. **J Rheumatol** 1997 Mar;24(3):511–7

[Endotoxicosis in the pathogenesis of severe forms of psoriasis and its correction by combined therapy using sillard P and plant species] Trunina TI. **Lik Sprava** 1997 Mar–Apr;(2):126–30 **(Ukr)**

ARTHRITIS, REACTIVE

see related
REITER'S DISEASE

Reactive arthritis: is it a useful concept? Beutler AM, et al. **Br J Clin Pract** 1997 Apr–May;51(3):169–72 (45 ref.)

Dengue arthritis [letter] Adebajo AO. **Br J Rheumatol** 1996 Sep;35(9):909–10

Reactive arthritis, beta–haemolytic Streptococcus and Staphylococcus aureus [letter] [see comments] Leitch DN, et al. **Br J Rheumatol** 1996 Sep;35(9):912. Comment in: Br J Rheumatol 1997 May;36(5):606–7.

Tuberculous rheumatism (Poncet's disease) in a patient infected with human immunodeficiency virus. Lesprit P, et al. **Clin Infect Dis** 1996 Nov;23(5):1179–80

Reactive arthritis. Toivanen A, et al. **Curr Opin Rheumatol** 1997 Jul;9(4):321–7 (80 ref.)

Reactive arthritis due to Gardnerella vaginalis. A case–report [letter] François S, et al. **Rev Rhum Engl Ed** 1997 Feb; 64(2):138–9

[Recent concept and clinical manifestations of reactive arthritis] Kobayashi S. **Ryumachi** 1997 Jun;37(3):504–13 (46 ref.) **(Jpn)**

BLOOD

Antigen–dependent B cell differentiation in the synovial tissue of a patient with reactive arthritis. Schröder AE, et al. **Mol Med** 1997 Apr;3(4):260–72

COMPLICATIONS

Coincident seronegative spondarthritis: a case report. Speed CA, et al. **Clin Rheumatol** 1996 May;15(3):301–2

Musculoskeletal disorders: genitourinary medicine perspective [editorial] Tayal SC, et al. **Int J STD AIDS** 1996 Oct;7(6):396–9 (38 ref.)

Arthritis associated with HIV infection in Zimbabwe. Stein CM, et al. **J Rheumatol** 1996 Mar;23(3):506–11

[Reactive arthritis and hidradenitis suppurativa (letter)] Alba D, et al. **An Med Interna** 1995 Sep;12(9):464–5 **(Spa)**

DIAGNOSIS

Evaluation of commercially available tests for Chlamydia nucleic acid detection in synovial fluid of patients. Bas S, et al. **Br J Rheumatol** 1997 Feb;36(2):198–202

Comment on the article 'Reactive arthritis, beta–haemolytic Streptococcus and Staphylococcus aureus' by D. N. Leitch and C. D. Holland [letter; comment] Braun J, et al. **Br J Rheumatol** 1996 May;36(5):606–7. Comment on: Br J Rheumatol 1996 Sep;35(9):912.

Reactive arthritis with a severe lesion of the cervical spine. Fox B, et al. **Br J Rheumatol** 1997 Jan;36(1):126–9

The co–occurrence of acute rheumatic fever and AIDS. Georgescu L, et al. **J Rheumatol** 1997 Feb;24(2):404–6

Poststreptococcal reactive arthritis in children [letter] Mercado U. **J Rheumatol** 1996 Jun;23(6):1113–4

Are antineutrophil cytoplasmic antibodies of immunodiagnostic value in reactive arthritis? [letter; comment] Stoffel MP, et al. **J Rheumatol** 1996 Sep; 23(9):1670–2. Comment on: J Rheumatol 1995 Dec;22(12):2304–6.

The early diagnosis of reactive arthritis. Rahman A, et al. **Practitioner** 1996 Aug;240(1565):474–6, 478, 480

Diagnostic value of synovial fluid analysis in children with reactive arthritis. Huppertz HI, et al. **Rheumatol Int** 1995; 15(4):167–70

[The concept of reactive arthritis (editorial)] Dougados M. **Presse Med** 1997 Feb 22;26(5):204–6 (Eng. Abstr.) **(Fre)**

[Diagnostic strategies in rheumatology. 3: General laboratory diagnosis—detection of pathogenic infections] Genth E. **Fortschr Med** 1997 Apr 10;115(10):42, 45 **(Ger)**

[The value of serological examination in detecting the etiological agents involved in causing reactive arthritis]

Constantiniu S, et al.
Bacteriol Virusol Parazitol Epidemiol 1996 Jan–Jun; 41(1–2):75–9 **(Rum)**

[The comparative clinico–laboratory characteristics of Lyme arthritis and reactive arthritis] Kufko IT, et al.
Ter Arkh 1997;69(5):12–5 (Eng. Abstr.) **(Rus)**

[Methods for the instrumental diagnosis and verification of Lyme arthritis] Ushakova MA, et al. **Ter Arkh** 1997; 69(5):15–9 (Eng. Abstr.) **(Rus)**

[Post–streptococcal reactive arthritis: diagnostic problems (see comments)] Skitarelić N, et al. **Lijec Vjesn** 1996 Mar–Apr;118(3–4):53–6 (Eng. Abstr.). Comment in: Lijec Vjesn 1996 Oct;118(10):254. **(Scr)**

[Additional dilemmas in the differential diagnosis of rheumatic fever and post–streptococcal reactive arthritis (letter; comment)] Sušković T. **Lijec Vjesn** 1996 Oct; 118(10):254. Comment on: Lijec Vjesn 1996 Mar–Apr;118(3–4):53–6. **(Scr)**

DRUG THERAPY

Limited effect of sulphasalazine treatment in reactive arthritis. A randomised double blind placebo controlled trial. Egsmose C, et al. **Ann Rheum Dis** 1997 Jan;56(1):32–6

Comparison of sulfasalazine and placebo in the treatment of reactive arthritis (Reiter's syndrome). A Department of Veterans Affairs Cooperative Study. Clegg DO, et al. **Arthritis Rheum** 1996 Dec;39(12):2021–7

A peptide sequence from platelet factor 4 (CT–112) is effective in the treatment of type II collagen induced arthritis in mice. Wooley PH, et al. **J Rheumatol** 1997 May; 24(5):890–8

ENZYMOLOGY

Cathepsin G and elastase in synovial fluid and peripheral blood in reactive and rheumatoid arthritis. Nordstrom D, et al. **Clin Rheumatol** 1996 Jan;15(1):35–41

EPIDEMIOLOGY

Reactive arthritis. Toivanen A, et al.
Curr Opin Rheumatol 1996 Jul;8(4):334–40 (90 ref.)

ETHNOLOGY

Spondylarthropathic diseases in indigenous circumpolar populations of Russia and Alaska. Benevolenskaya LI, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):815–22

ETIOLOGY

Reactive arthritis induced by tonsillitis. Kobayashi S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:206–11

Poststreptococcal reactive arthritis: report of one case. Hsu JF, et al. **Acta Paediatr Sin** 1996 Jul–Aug;37(4):295–7

Antigen–presenting cells but not lymphocytes in the joint may indicate the cause of reactive arthritis. Stagg AJ, et al. **Br J Rheumatol** 1996 Nov;35(11):1082–90

Reactive arthritis by staphylococcus epidermidis: report of an unusual case. Giordano N, et al. **Clin Rheumatol** 1996 Jan;15(1):59–61

Relation of YadA to arthritogenicity of Yersinia enterocolitica: experimental studies in the rat.
Gripenberg–Lerche C, et al. **Contrib Microbiol Immunol** 1995;13:188–90

Recent advances in the pathogenesis of reactive arthritis. Sieper J, et al. **Immunol Today** 1996 Apr;17(4):160–3 (18 ref.)

Homing of mucosal leukocytes to joints. Distinct endothelial ligands in synovium mediate leukocyte–subtype specific adhesion. Salmi M, et al. **J Clin Invest** 1997 May 1; 99(9):2165–72

The pathogenesis of HLA–B 27–related reactive arthritis. Huang F, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):537–9

Reactive arthritis to Clostridium difficile in a child. Cron RQ, et al. **West J Med** 1997 Jun;166(6):419–21

[Reactive arthritis. New aspects of pathogenesis, diagnosis and therapy] Sieper J. **Orthopade** 1997 May;26(5):498–502 (9 ref.) **(Ger)**

[Reactive arthritis: terminology, etiology and pathogenesis] Sidel'nikova SM, et al. **Klin Med (Mosk)** 1996;74(8):38–40 (Eng. Abstr.) **(Rus)**

[Toxocara infections in childhood in relation to reactive arthritis] Kinčeková J, et al.
Epidemiol Mikrobiol Imunol 1997 Mar;46(1):39–41 (Eng. Abstr.) **(Slo)**

[Infection and reactive arthritis: clinico–bacteriological correlation in seronegative arthropathies] Gutiérrez F, et al. **Rev Med Chil** 1995 Oct;123(10):1214–24 (Eng. Abstr.) **(Spa)**

GENETICS

Familial Salmonella–triggered reactive arthritis [letter] Aragon A, et al. **Br J Rheumatol** 1996 Sep;35(9):908–9

Non–HLA–B27 genetic factors in HLA–B27 associated diseases. Feltkamp TE. **Clin Rheumatol** 1996 Jan;15 Suppl 1:40–3

HSP70–Hom NcoI polymorphism and HLA–associations in the Finnish population and in patients with ankylosing spondylitis or reactive arthritis. Westman P, et al.
Eur J Immunogenet 1994 Apr;21(2):81–90

IMMUNOLOGY

Increase of HLA–DRB1*0408 and –DQB1*0301 in HLA–B27 positive reactive arthritis. Tuokko J, et al.
Ann Rheum Dis 1997 Jan;56(1):37–40

Selective migration of the human helper/inducer T–cell subset (CD4+) in BCG–induced arthritis. Farahat MN. **Biochem Soc Trans** 1997 May;25(2):371S

Comparison of IgA–alpha 1–antitrypsin levels in rheumatoid and reactive arthritis. Scott LJ, et al.
Biochem Soc Trans 1997 May;25(2):370S

Oligoarthritis in a HLA–B27 positive patient with a variant form of hairy cell leukaemia [letter] Koch B, et al.
Clin Exp Rheumatol 1997 Mar–Apr;15(2):224–5

HLA–B27 and HLA–B73 polymorphism and its role on antigenicity, peptide presentation, and disease susceptibility. Lopez De Castro JA. **Clin Rheumatol** 1996 Jan;15 Suppl 1:67–71 (24 ref.)

Comparison of peptides eluted from the groove of HLA–B27 from Salmonella infected and non–infected cells. Ringrose JH, et al. **Clin Rheumatol** 1996 Jan;15 Suppl 1:74–8

Coincident seronegative spondarthritis: a case report. Speed CA, et al. **Clin Rheumatol** 1996 May;15(3):301–2

Heterogeneity of rearranged T cell receptor V alpha and V beta gene transcripts in synovial fluid T cells of HLA–B27 positive reactive arthritis patients. Verjans GM, et al. **Clin Rheumatol** 1996 Jan;15 Suppl 1:91–6

Reactive arthritis. Toivanen A, et al.
Curr Opin Rheumatol 1996 Jul;8(4):334–40 (90 ref.)

Enterobacteria–infected T cells as antigen–presenting cells for cytotoxic CD8 T cells: a contribution to the self–limitation of cellular immune reactions in reactive arthritis? Ackermann B, et al. **J Infect Dis** 1997 May; 175(5):1121–7

Antineutrophil cytoplasmic antibodies in reactive arthritis [see comments] Locht H, et al. **J Rheumatol** 1995 Dec; 22(12):2304–6. Comment in: J Rheumatol 1996 Sep;23(9):1670–2.

Are antineutrophil cytoplasmic antibodies of immunodiagnostic value in reactive arthritis? [letter; comment] Stoffel MP, et al. **J Rheumatol** 1996 Sep; 23(9):1670–2. Comment on: J Rheumatol 1995 Dec;22(12):2304–6.

B–cell activation and development within chronically inflamed synovium in rheumatoid and reactive arthritis. Berek C, et al. **Semin Immunol** 1997 Aug;9(4):261–8 (38 ref.)

[Explanatory models for HLA–b27 association of reactive arthritis as a paradigm for spondyloarthropathy] Braun J, et al. **Med Klin** 1996 Sep 15;91(9):574–9 (54 ref.) **(Ger)**

METABOLISM

Increased expression of IL–15 in the synovium of patients with rheumatoid arthritis compared with patients with Yersinia–induced arthritis and osteoarthritis. Thurkow EW, et al. **J Pathol** 1997 Apr;181(4):444–50

Synovial membrane cytokine profiles in reactive arthritis secondary to intravesical bacillus Calmette–Guérin therapy. Smith MD, et al. **J Rheumatol** 1997 Apr; 24(4):752–8

MICROBIOLOGY

Host–microbe interaction in HLA–B27–associated diseases. Granfors K. **Ann Med** 1997 Apr;29(2):153–7

Reactive or septic arthritis? Comment on the article by Li et al [letter; comment] Schaeverbeke T, et al.
Arthritis Rheum 1997 Mar;40(3):592–3. Comment on: Arthritis Rheum 1996 Jun;39(6):950–8.

Chlamydia pneumoniae––reactive arthritis and persistent infection [letter] Moling O, et al. **Br J Rheumatol** 1996 Nov;35(11):1189–90

Ligase chain reaction in detection of Chlamydia DNA in synovial fluid cells. Nikkari S, et al. **Br J Rheumatol** 1997 Jul;36(7):763–5

Reactive arthritis in a patient with simultaneous parvovirus B19 infection and Clostridium difficile diarrhoea [letter] Nikkari S, et al. **Br J Rheumatol** 1997 Jan;36(1):143–4

Actinomycotic splenic abscesses presenting with arthritis. Quintero–Del–Rio AI, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):445–8 (13 ref.)

Evaluation of ELISA to detect Chlamydia trachomatis antigen in urine samples from arthritis patients. Wollenhaupt J, et al. **Clin Exp Rheumatol** 1997 Mar–Apr; 15(2):169–74

Reactive arthritis induced by pseudomonas aeruginosa [letter] Kobayashi S, et al. **Clin Rheumatol** 1996 Sep;15(5):516–7

Nested polymerase chain reaction strategy simultaneously targeting DNA sequences of multiple bacterial species in inflammatory joint diseases. II. Examination of sacroiliac and knee joint biopsies of patients with spondyloarthropathies and other arthritides. Braun J, et al. **J Rheumatol** 1997 Jun;24(6):1101–5

Nested polymerase chain reaction strategy simultaneously targeting DNA sequences of multiple bacterial species in inflammatory joint diseases. I. Screening of synovial fluid samples of patients with spondyloarthropathies and other arthritides. Braun J, et al. **J Rheumatol** 1997 Jun; 24(6):1092–100

Poststreptococcal reactive rheumatic syndrome. Schattner A. **J Rheumatol** 1996 Jul;23(7):1297–8

The evolutionarily conserved ribosomal protein L23 and the cationic urease beta–subunit of Yersinia enterocolitica O:3 belong to the immunodominant antigens in Yersinia–triggered reactive arthritis: implications for autoimmunity. Mertz AK, et al. **Mol Med** 1994 Nov; 1(1):44–55

[Does reactive arthritis caused by Brucella exist? Apropos of 4 cases] Dubost JJ, et al. **Presse Med** 1997 Feb 22; 26(5):207–10 (Eng. Abstr.) **(Fre)**

PARASITOLOGY

Reactive arthritis induced by Strongyloides stercoralis. Brocq O, et al. **Rev Rhum Engl Ed** 1996 Mar;63(3):217–9 (12 ref.)

PHYSIOPATHOLOGY

Fast food arthritis––a clinico–pathologic study of post–Salmonella reactive arthritis. Samuel MP, et al.
J Rheumatol 1995 Oct;22(10):1947–52

Anatomic predilection of the spondyloarthropathies(–)a case of the nerves? Segal AH. **J Rheumatol** 1996 Mar; 23(3):491–4 (60 ref.)

PREVENTION & CONTROL

Experimental Yersinia–triggered reactive arthritis: effect of a 3–week course of ciprofloxacin. Zhang Y, et al.
Br J Rheumatol 1997 May;36(5):541–6

REHABILITATION

[Reactive arthritis and its treatment with physical factors] Grigor'eva VD, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1997 May–Jun; (3):39–41 (52 ref.) **(Rus)**

URINE

Evaluation of ELISA to detect Chlamydia trachomatis antigen in urine samples from arthritis patients. Wollenhaupt J, et al. **Clin Exp Rheumatol** 1997 Mar–Apr; 15(2):169–74

VIROLOGY

Reactive arthritis in a patient with simultaneous parvovirus B19 infection and Clostridium difficile diarrhoea [letter] Nikkari S, et al. **Br J Rheumatol** 1997 Jan;36(1):143–4

ARTHRITIS, RHEUMATIC, ACUTE see **RHEUMATIC FEVER**

ARTHRITIS, RHEUMATOID

Detection of oncostatin M in synovial fluid from patients with rheumatoid arthritis. Hui W, et al.
Ann Rheum Dis 1997 Mar;56(3):184–7

Local disruption of the insulin–like growth factor system in the arthritic joint. Fernihough JK, et al.
Arthritis Rheum 1996 Sep;39(9):1556–65

The AIMS2–SF: a short form of the Arthritis Impact Measurement Scales 2. French Quality of Life in Rheumatology Group. Guillemin F, et al.
Arthritis Rheum 1997 Jul;40(7):1267–74

Patient viewpoint: a reconstruction. van der Ende AG.
Baillieres Clin Rheumatol 1997 Feb;11(1):129–43

Early arthritis: outstanding issues. Woolf AD, et al.
Baillieres Clin Rheumatol 1997 Feb;11(1):181–3

Animal models of rheumatoid arthritis [editorial] Cleland LG. **Br J Rheumatol** 1996 Nov;35(11):1041–2

Foot and ankle issues in rheumatoid arthritis. Marks RM, et al. **Bull Rheum Dis** 1997 Aug;46(5):1–3

Rheumatologic view of the rheumatoid foot. Smyth CJ, et al. **Clin Orthop** 1997 Jul;(340):7–17 (41 ref.)

Rheumatoid arthritis. **Curr Opin Rheumatol** 1997 May; 9(3):B93–117

The wrist in rheumatoid arthritis. Shapiro JS. **Hand Clin** 1996 Aug;12(3):477–98 (80 ref.)

Metacarpophalangeal joints in rheumatoid arthritis of the hand. Stirrat CR. **Hand Clin** 1996 Aug;12(3):515–29 (34 ref.)

Co–existence of non–Hodgkin's lymphoma in the leukemic phase and polyarthritis simulating rheumatoid arthritis. Nishiya K, et al. **Intern Med** 1997 Mar;36(3):227–31

Development of an instrument to measure knowledge in individuals with rheumatoid arthritis: the ACREU rheumatoid arthritis knowledge questionnaire. Lineker SC, et al. **J Rheumatol** 1997 Apr;24(4):647–53

Prognostic factors in rheumatoid arthritis. van Zeben D, et al. **J Rheumatol Suppl** 1996 Mar;44:31–3 (37 ref.)

The prognosis of rheumatoid arthritis. Curković B, et al.
Reumatizam 1996;43(1):10–5

From classification criteria to diagnostic criteria for rheumatoid arthritis [editorial] Saraux A, et al.
Rev Rhum Engl Ed 1996 Mar;63(3):159–61

A retrospective analysis of the pathogenesis of rheumatoid arthritis [editorial] Zvaifler NJ. **Rev Rhum Engl Ed** 1996 Dec;63(11):791–6 (39 ref.)

Pregnancy and rheumatoid arthritis. Nelson JL, et al.
Rheum Dis Clin North Am 1997 Feb;23(1):195–212 (126 ref.)

A new mouse model of rheumatoid arthritis: organ–specific disease provoked by systemic autoimmunity. Kouskoff V, et al. **Ryumachi** 1997 Apr;37(2):147

Disease course and prognosis in rheumatoid arthritis: an interdisciplinary prospective longitudinal study. Bendtsen P, et al. **Scand J Soc Med** 1996 Sep;24(3):193–8

[Progresses in rheumatology in China, 1996] Shi G. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):894–5 (0 ref.) **(Chi)**

[Rheumatoid arthritis in the elderly] Yaretzky A, et al. **Harefuah** 1997 Jan 1;132(1):10–3, 72 (Eng. Abstr.) **(Heb)**

[Up-to-date study of rheumatoid factor and the clinical significance] Hirose S. **Ryumachi** 1997 Apr;37(2):149–50 **(Jpn)**

[ACR preliminary definition, of improvement in rheumatoid arthritis] Homma M. **Ryumachi** 1996 Dec;36(6):891–900 (16 ref.) **(Jpn)**

[Fourty Years' Progress in Rheumatology, and future Perspectives in Japan] Shiokawa Y. **Ryumachi** 1996 Aug; 36(4):662–9 (17 ref.) **(Jpn)**

[Adhesion molecules in arthritis rheumatism: cross-talking with cytokines] Tanaka Y. **Ryumachi** 1997 Feb;37(1):48–57 (35 ref.) **(Jpn)**

[New perspectives on rheumatoid arthritis] Klareskog L. **Lakartidningen** 1997 Jan 8;94(1-2):24–7 **(Swe)**

BLOOD

Antiperinuclear factors are present in polyarthritis before ACR criteria for rheumatoid arthritis are fulfilled [letter; comment] Boerbooms AM. **Ann Rheum Dis** 1997 Jun; 56(6):395. Comment on: Ann Rheum Dis 1997 Feb;56(2):123–5.

Serum concentrations of alpha tocopherol, beta carotene, and retinol preceding the diagnosis of rheumatoid arthritis and systemic lupus erythematosus. Comstock GW, et al. **Ann Rheum Dis** 1997 May;56(5):323–5

Effect of disease modifying agents on the lipid profiles of patients with rheumatoid arthritis [see comments] Munro R, et al. **Ann Rheum Dis** 1997 Jun;56(6):374–7. Comment in: Ann Rheum Dis 1997 Jun;56(6):341–2.

Increased serum NG-hydroxy-L-arginine in patients with rheumatoid arthritis and systemic lupus erythematosus as an index of an increased nitric oxide synthase activity. Wigand R, et al. **Ann Rheum Dis** 1997 May;56(5):330–2

High prevalence of serum apolipoprotein E4 isoprotein in rheumatoid arthritis patients with amyloidosis. Hasegawa H, et al. **Arthritis Rheum** 1996 Oct;39(10):1728–32

Hepatocyte growth factor. A cytokine mediating endothelial migration in inflammatory arthritis. Koch AE, et al. **Arthritis Rheum** 1996 Sep;39(9):1566–75

The synovial expression and serum levels of interleukin-6, interleukin-11, leukemia inhibitory factor, and oncostatin M in rheumatoid arthritis. Okamoto H, et al. **Arthritis Rheum** 1997 Jun;40(6):1096–105

Effects of pulse methylprednisolone on inflammatory mediators in peripheral blood, synovial fluid, and synovial membrane in rheumatoid arthritis. Youssef PP, et al. **Arthritis Rheum** 1997 Aug;40(8):1400–8

Lipocortin 1 binding sites on human T-cells: the population of cells with the binding sites is larger in CD8+ T-lymphocytes than in CD4+ T-lymphocytes. Kim HW, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1167–73

Serum galactosyltransferase as a marker of disease activity in rheumatoid arthritis. Alavi A, et al. **Biochem Soc Trans** 1997 May;25(2):313S

Inflammatory alpha-1-acid glycoprotein shows an altered reactivity to the lectin Concanavalin A. Elliott MA, et al. **Biochem Soc Trans** 1996 May;24(2):331S

Plasma selenium levels in rheumatoid arthritis. Köse K, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):51–6

Soluble L-selectin in the connective tissue diseases. Blann AD, et al. **Br J Haematol** 1996 Oct;95(1):192–4

Agalactosyl IgG [Gal(o)]--an analysis of its clinical utility in the long-term follow-up of patients with rheumatoid arthritis. Bodman-Smith K, et al. **Br J Rheumatol** 1996 Nov;35(11):1063–6

Mannan binding protein in sera positive for rheumatoid factor. Kilpatrick DC. **Br J Rheumatol** 1997 Feb; 36(2):207–9

A distinct profile of six soluble adhesion molecules (ICAM-1, ICAM-3, VCAM-1, E-selectin, L-selectin and P-selectin) in rheumatoid arthritis. Littler AJ, et al. **Br J Rheumatol** 1997 Feb;36(2):164–9

HLA DRB1* typing and cartilage oligomeric matrix protein (COMP) as predictors of joint destruction in recent-onset rheumatoid arthritis. Wollheim FA, et al. **Br J Rheumatol** 1997 Aug;36(8):847–9

Increased levels of lipid oxidation products in low density lipoproteins of patients suffering from rheumatoid arthritis. Jira W, et al. **Chem Phys Lipids** 1997 May 30;87(1):81–9

Correlation between blood antioxidant levels and lipid peroxidation in rheumatoid arthritis. Gambhir JK, et al. **Clin Biochem** 1997 Jun;30(4):351–5

Actin polymerisation in neutrophils of rheumatoid arthritis patients in relation to treatment with non-steroidal anti-inflammatory drugs. De Clerck LS, et al. **Clin Chim Acta** 1997 May 6;261(1):19–25

Microheterogeneity of alpha 1-antitrypsin in relation to the concentration of its complex with immunoglobulin A in the sera of patients with rheumatoid arthritis [see comments] Hrycaj P, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):119–23. Comment in: Clin Exp Rheumatol 1997 Jan-Feb;15(1):117–8.

The releasability of lysosomal enzymes from neutrophil leukocytes in patients with rheumatoid arthritis. Marinò I, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):387–94

Plasma renin activity as a marker of renovascular injury in patients with rheumatoid arthritis. Mavrikakis ME, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):613–7

In vitro effects of methotrexate on polyamine levels in lymphocytes from rheumatoid arthritis patients. Nesher G, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):395–9

Low serum hyaluronan in psoriatic arthritis patients in comparison to rheumatoid arthritis patients. Partsch G, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):381–6

Lipoproteins, anticardiolipin antibodies and thrombotic events in rheumatoid arthritis. Seriolo B, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):593–9

The determination of pyridinium crosslinks in urine and serum as a possible marker of cartilage degradation in rheumatoid arthritis. Hein G, et al. **Clin Rheumatol** 1997 Mar;16(2):167–72

Imbalance of tissue-type plasminogen activator (t-PA) and its specific inhibitor (PAI-1) in patients with rheumatoid arthritis associated with disease activity. Kopeikina LT, et al. **Clin Rheumatol** 1997 May;16(3):254–60

Circulating intercellular adhesion molecule 1 in rheumatoid arthritis--relationship to systemic vasculitis and microvascular injury in nailfold capillary microscopy. Kuryliszyn-Moskal A, et al. **Clin Rheumatol** 1996 Jul; 15(4):367–73

Enhanced mitochondrial radical production in patients which rheumatoid arthritis correlates with elevated levels of tumor necrosis factor alpha in plasma. Miesel R, et al. **Free Radic Res** 1996 Aug;25(2):161–9

Glycosylation of alpha1-acid glycoprotein in inflammatory disease: analysis by high-pH anion-exchange chromatography and concanavalin A crossed affinity immunoelectrophoresis. Rydén I, et al. **Glycoconj J** 1997 Jun;14(4):481–8

Lack of expression of c-myc oncogene in peripheral blood mononuclear cells of patients with active rheumatoid arthritis. Wanchu A, et al. **Indian J Med Res** 1996 Sep; 104:223–5

Plasma reactive nitrogen intermediate levels in patients with clinically active rheumatoid arthritis. Wanchu A, et al. **Indian J Med Res** 1996 Oct;104:263–8

Peripheral blood neutrophil leukotriene B4 release and migration in rheumatoid arthritis. Kankaanranta H, et al. **Inflammation** 1996 Oct;20(5):513–22

Investigation into the concanavalin A reactivity, fucosylation and oligosaccharide microheterogeneity of alpha 1-acid glycoprotein expressed in the sera of patients with rheumatoid arthritis. Elliott MA, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):229–37

Circadian relationships between interleukin (IL)-6 and hypothalamic-pituitary-adrenal axis hormones: failure of IL-6 to cause sustained hypercortisolism in patients with early untreated rheumatoid arthritis. Crofford LJ, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1279–83

Heterogeneity of the human corticotropin-releasing factor-binding protein. Woods RJ, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1566–71

Soluble tumor necrosis factor receptor in serum of patients with arthritis. Lee CS, et al. **J Formos Med Assoc** 1997 Aug;96(8):573–8

The thrombin-antithrombin complex in rheumatoid arthritis [letter] Cella G, et al. **J Rheumatol** 1997 Feb;24(2):410

Elevated plasma stromelysin levels in arthritis [letter; comment] Cheung NT, et al. **J Rheumatol** 1995 Oct; 22(10):2004–5. Comment on: J Rheumatol 1994 Dec;21(12):2329–33.

Measurement of serum hyaluronic acid in patients with rheumatoid arthritis: correlation with disease activity. Emlen W, et al. **J Rheumatol** 1996 Jun;23(6):974–8

Increase of bone mineral density and anabolic variables in patients with rheumatoid arthritis resistant to methotrexate after cyclosporin A therapy. Ferraccioli G, et al. **J Rheumatol** 1996 Sep;23(9):1539–42

Plasma levels of granulocyte elastase-alpha-proteinase inhibitor complex in patients with rheumatoid arthritis: measurements with a system free from rheumatoid factor interference [letter] Fujimori J, et al. **J Rheumatol** 1996 Mar;23(3):571

Circulating levels of tumor necrosis factor soluble receptors in systemic lupus erythematosus are significantly higher than in other rheumatic diseases and correlate with disease activity. Gabay C, et al. **J Rheumatol** 1997 Feb;24(2):303–8

The significance of AST changes in patients with rheumatoid arthritis treated with methotrexate [editorial; comment] Heathcote J. **J Rheumatol** 1996 Mar;23(3):413–5. Comment on: J Rheumatol 1996 Mar;23(3):459–61.

Detection of large macrophage colony forming cells in the peripheral blood of patients with rheumatoid arthritis. Horie S, et al. **J Rheumatol** 1997 Aug;24(8):1517–21

Plasma tetranectin levels and disease activity in patients with rheumatoid arthritis. Kamper EF, et al. **J Rheumatol** 1997 Feb;24(2):262–8

Rheumatoid arthritis exhibits reduced acute phase and enhanced constitutive serum amyloid A protein in synovial fluid relative to serum. A comparison with C-reactive protein. Kumon Y, et al. **J Rheumatol** 1997 Jan;24(1):14–9

Serum phospholipase A2 activity in patients with rheumatoid arthritis before and after treatment with methotrexate, auranofin, or combination of the two. Michaels RM, et al. **J Rheumatol** 1996 Feb;23(2):226–9

Distinct alterations in lineage committed progenitor cells exist in the peripheral blood of patients with rheumatoid arthritis and primary Sjogren's syndrome. Santiago-Schwarz F, et al. **J Rheumatol** 1996 Mar; 23(3):439–46

C1 inhibitor deficiency in a patient with rheumatoid arthritis--increased risk of adverse effects of penicillamine? Sturfelt G, et al. **J Rheumatol** 1996 Feb;23(2):378–81

Increased nitric oxide levels in patients with rheumatoid arthritis. Ueki Y, et al. **J Rheumatol** 1996 Feb;23(2):230–6

Cardiovascular morbidity and mortality in patients with seropositive rheumatoid arthritis in Northern Sweden. Wallberg-Jonsson S, et al. **J Rheumatol** 1997 Mar; 24(3):445–51

Comparative usefulness of C-reactive protein and erythrocyte sedimentation rate in patients with rheumatoid arthritis. Wolfe F. **J Rheumatol** 1997 Aug;24(8):1477–85

Increased circulating serum amyloid A protein derivatives in rheumatoid arthritis patients with secondary amyloidosis. Migita K, et al. **Lab Invest** 1996 Sep;75(3):371–5

Ezrin, radixin and moesin are possible auto-immune antigens in rheumatoid arthritis. Wagatsuma M, et al. **Mol Immunol** 1996 Oct;33(15):1171–6

Production of the third component of complement (C3) by peripheral polymorphonuclear neutrophils of the patients with rheumatoid arthritis. Yu CL, et al. **Proc Natl Sci Counc Repub China B** 1995 Oct;19(4):225–32

Increased serum leukotriene B4 level in the active stage of rheumatoid arthritis in children. Gürsel T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Mar; 56(3):205–7

How useful are bone turnover markers in rheumatoid arthritis? Influence of disease activity and corticosteroid therapy. Cortet B, et al. **Rev Rhum Engl Ed** 1997 Mar; 64(3):153–9

Relationship of soluble interleukin-2-receptor and interleukin-6 with class-specific rheumatoid factors during low-dose methotrexate treatment in rheumatoid arthritis. Spadaro A, et al. **Rev Rhum Engl Ed** 1997 Feb;64(2):89–94

Relationship between interleukin-8 and neutrophil adhesion molecules in rheumatoid arthritis. De Gendt CM, et al. **Rheumatol Int** 1996;16(4):169–73

Serum levels of soluble CD44 variant isoforms are elevated in rheumatoid arthritis. Kittl EM, et al. **Rheumatol Int** 1997; 16(5):181–6

Evaluation of interleukin-6 in rheumatoid arthritis as an activity criterion. Sentürk T, et al. **Rheumatol Int** 1996; 16(4):141–4

Assessment of beta-2-microglobulin concentration in serum and urine in rheumatoid arthritis. Lewandowski B, et al. **Rocz Akad Med Bialymst** 1996;41(2):482–91

Peripheral beta-endorphin in rheumatoid arthritis. A correlation with the disease activity. Elbeialy A, et al. **Scand J Rheumatol** 1997;26(2):88–91

Circulating transferrin receptor during erythropoietin medication of anemic patients with rheumatoid arthritis. Pettersson T, et al. **Scand J Rheumatol** 1996;25(5):321–4

Do changes in clinical improvement in rheumatoid arthritis patients treated with immunosuppressive drugs reflect the changes in acute phase proteins? Lacki JK, et al. **Ups J Med Sci** 1995;100(3):233–42

[High levels of blood IgA in patients with rheumatoid arthritis] Ferlazzo B, et al. **Minerva Med** 1997 Jul-Aug; 88(7-8):283–7 (Eng. Abstr.) **(Ita)**

[Regulatory R proteins and lipid peroxidation in rheumatoid arthritis] Kochetova EV, et al. **Ter Arkh** 1996;68(12):76–8 (Eng. Abstr.) **(Rus)**

[The serum level of soluble interleukin-2 receptors in patients with rheumatoid arthritis] Medvedev AN, et al. **Ter Arkh** 1996;68(5):24–7 (Eng. Abstr.) **(Rus)**

[Changes in the unsaturated fatty acids and lipid peroxidation during the treatment of patients with rheumatoid arthritis] Berezhnyts'kyĭ MM, et al. **Lik Sprava** 1996 Mar-Apr; (3-4):53–6 **(Ukr)**

CHEMICALLY INDUCED

Development of arthritis and hypothyroidism during alpha-interferon therapy for chronic hepatitis C. Pittau E, et al. **Clin Exp Rheumatol** 1997 Jul-Aug;15(4):415–9 (25 ref.)

CLASSIFICATION

What is early rheumatoid arthritis?: definition and diagnosis. Emery P, et al. **Baillieres Clin Rheumatol** 1997 Feb; 11(1):13–26 (30 ref.)

Measurement of morning stiffness in rheumatoid arthritis clinical trials. Vliet Vlieland TP, et al. **J Clin Epidemiol** 1997 Jul;50(7):757–63

Classification criteria for rheumatoid arthritis [letter; comment] Saraux A, et al. **Scand J Rheumatol** 1997; 26(3):229. Comment on: Scand J Rheumatol 1996;25(5):277–81.

[Combined forms of rheumatism and rheumatoid arthritis--an attempt at nosological interpretation] Shostak NA. **Ter Arkh** 1997;69(5):36–40 **(Rus)**

COMPLICATIONS

Multiple sclerosis and chronic inflammatory diseases. A case-control study. Midgard R, et al. **Acta Neurol Scand** 1996 May;93(5):322–8

Subaxial cervical spine subluxation in rheumatoid arthritis. A retrospective analysis of 16 operated patients after 1-5 years. Olerud C, et al. **Acta Orthop Scand** 1997 Apr; 68(2):109–15

High-dose ranitidine for the prevention of recurrent peptic

ulcer disease in rheumatoid arthritis patients taking NSAIDs. ten Wolde S, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):347–51

Hepatic hemorrhage in malignant rheumatoid arthritis. Mizuno K, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2624–5

Insulin–dependent diabetes mellitus associated with autoimmune thyroiditis and rheumatoid arthritis. Yamato E, et al. **Am J Med Sci** 1997 Jan;313(1):64–6

Proximal dissection of a popliteal giant synovial cyst: a case report. Rubman MH, et al. **Am J Orthop** 1997 Jan; 26(1):33–6

Interstitial lung disease in recent onset rheumatoid arthritis. Gabbay E, et al. **Am J Respir Crit Care Med** 1997 Aug; 156(2 Pt 1):528–35

Bronchiolar disease in rheumatoid arthritis. Hayakawa H, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1531–6

Gold–induced pulmonary disease: clinical features, outcome, and differentiation from rheumatoid lung disease. Tomioka R, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1011–20 (137 ref.)

The epidemiology of pain: the more you have, the more you get [see comments] Croft P. **Ann Rheum Dis** 1996 Dec; 55(12):859–60. Comment in: Ann Rheum Dis 1997 Jun;56(6):395.

A case of secondary Sjögren's syndrome with a swollen thigh. Deodhar AA, et al. **Ann Rheum Dis** 1997 Mar; 56(3):162–4

Does lymphoma 'cure' rheumatoid arthritis? [letter] Dumas A, et al. **Ann Rheum Dis** 1997 Apr;56(4):278

Finger drop in a patient with rheumatoid arthritis [letter; comment] Ehrlich GE. **Ann Rheum Dis** 1997 Apr;56(4):280 . Comment on: Ann Rheum Dis 1996 Oct;55(10):728–30.

An uncommon cause of finger drop in a patient with rheumatoid arthritis [see comments] McDonald SP, et al. **Ann Rheum Dis** 1996 Oct;55(10):728–30. Comment in: Ann Rheum Dis 1997 Apr;56(4):280.

Prevalence of low body mass in rheumatoid arthritis: association with the acute phase response. Munro R, et al. **Ann Rheum Dis** 1997 May;56(5):326–9

Dyslipidemia and rheumatoid arthritis [comment] Situnayake RD, et al. **Ann Rheum Dis** 1997 Jun;56(6):341–2. Comment on: Ann Rheum Dis 1997 Jun;56(6):374–7.

Pain in the rheumatic diseases [letter; comment] Thompson PW, et al. **Ann Rheum Dis** 1997 Jun;56(6):395. Comment on: Ann Rheum Dis 1996 Dec;55(12):859–60.

Minocycline treatment for leukocytoclastic vasculitis associated with rheumatoid arthritis. Houck HE, et al. **Arch Dermatol** 1997 Jan;133(1):15–6

Rheumatoid neutrophilic dermatitis. Mashek HA, et al. **Arch Dermatol** 1997 Jun;133(6):757–60

Rheumatoid arthritis and the risk of malignancy. Cibere J, et al. **Arthritis Rheum** 1997 Sep;40(9):1580–6

High prevalence of serum apolipoprotein E4 isoprotein in rheumatoid arthritis patients with amyloidosis. Hasegawa H, et al. **Arthritis Rheum** 1996 Oct;39(10):1728–32

Prognosis in rheumatoid vasculitis: comment on the article by Voskuyl et al [letter; comment] Puéchal X, et al. **Arthritis Rheum** 1996 Nov;39(11):1937–8. Comment on: Arthritis Rheum 1996 Feb;39(2):266–71.

Subcutaneous granuloma annulare in a patient with rheumatoid arthritis and diabetes mellitus. Tam MM, et al. **Australas J Dermatol** 1996 Nov;37(4):199–201 (8 ref.)

Pain behavior, spouse responsiveness, and marital satisfaction in patients with rheumatoid arthritis. Williamson D, et al. **Behav Modif** 1997 Jan;21(1):97–118

Bilateral hip replacements in a man with cystic fibrosis and episodic arthritis [letter] Jones SM, et al. **Br J Rheumatol** 1997 Feb;36(2):298–9

The relationship between synovitis and erosions in rheumatoid arthritis. Kirwan JR. **Br J Rheumatol** 1997 Feb; 36(2):225–8

Methods to score vertebral deformities in patients with rheumatoid arthritis. Lems WF, et al. **Br J Rheumatol** 1997 Feb;36(2):220–4

Rheumatoid constrictive pericarditis [clinical conference] McRorie ER, et al. **Br J Rheumatol** 1997 Jan;36(1):100–3

Unusual complications of cervical spine surgery for cervical myelopathy in rheumatoid arthritis. Munro R, et al. **Br J Rheumatol** 1996 Jul;35(7):682–5

Decreased survival in patients with co–existent rheumatoid arthritis and bronchiectasis. Swinson DR, et al. **Br J Rheumatol** 1997 Jun;36(6):689–91

Elevated incidence of hematologic malignancies in patients with Sjögren's syndrome compared with patients with rheumatoid arthritis (Finland). Kauppi M, et al. **Cancer Causes Control** 1997 Mar;8(2):201–4

Preoperative evaluation of a woman with rheumatoid arthritis. Longworth DL, et al. **Cleve Clin J Med** 1997 Mar;64(3):133–5

Polyglandular autoimmune syndrome type II and rheumatoid arthritis [letter] Cicchinelli M, et al. **Clin Exp Rheumatol** 1997 May–Jun;15(3):336–7

Morphea and rheumatoid arthritis [letter] Hernández–Beriain JA, et al. **Clin Exp Rheumatol** 1996 Jul–Aug;14(4):446–7

Low incidence of colorectal cancer in patients with rheumatoid arthritis. Kauppi M, et al. **Clin Exp Rheumatol** 1996 Sep–Oct;14(5):551–3

Detection of distal renal tubular acidosis by urinary blood PCO2 gradient in patients with rheumatoid arthritis [letter] Rosemffet MG, et al. **Clin Exp Rheumatol** 1996 May–Jun; 14(3):351–2

Crohn's disease associated with seropositive rheumatoid arthritis. Toussirot E, et al. **Clin Exp Rheumatol** 1997 May–Jun;15(3):307–11

Extraosseous manifestations of rheumatoid arthritis in the foot and ankle. O'Brien TS, et al. **Clin Orthop** 1997 Jul; (340):26–33 (46 ref.)

Intravenous iron is effective in treating the anaemia of rheumatoid arthritis and is not associated with flares of synovitis [letter] Cimmino MA, et al. **Clin Rheumatol** 1997 Mar;16(2):215–6

Cogan's syndrome as an extra–articular manifestation of rheumatoid arthritis. Dekker JJ, et al. **Clin Rheumatol** 1996 Jul;15(4):374–7

Membranous glomerulonephritis in rheumatoid arthritis unrelated to gold, D–penicillamine or other connective tissue disease. Zarza LP, et al. **Clin Rheumatol** 1996 Jul; 15(4):385–8

Comparison of electromotive drug administration with ketorolac or with placebo in patients with pain from rheumatic disease: a double–masked study. Saggini R, et al. **Clin Ther** 1996 Nov–Dec;18(6):1169–74

Rheumatic aspects of acquired immunodeficiency syndrome. Itescu S. **Curr Opin Rheumatol** 1996 Jul;8(4):346–53 (61 ref.)

Rheumatoid arthritis and lymphatic cancer [editorial] Macfarlane GJ, et al. **Eur J Cancer** 1996 Sep; 32A(10):1630–2

Rheumatoid arthritis and cancer risk. Mellemkjaer L, et al. **Eur J Cancer** 1996 Sep;32A(10):1753–7

Pneumocystis carinii pneumonia in a HIV–seronegative patient with untreated rheumatoid arthritis and CD4+ T–lymphocytopenia. Prekates A, et al. **Eur Respir J** 1997 May;10(5):1184–6

Airway obstruction and rheumatoid arthritis. Vergnenègre A, et al. **Eur Respir J** 1997 May;10(5):1072–8

Finger deformities in rheumatoid arthritis. Rizio L, et al. **Hand Clin** 1996 Aug;12(3):531–40 (25 ref.)

Extensor tendon problems in rheumatoid arthritis. Wilson RL, et al. **Hand Clin** 1996 Aug;12(3):551–9 (30 ref.)

The role of VCAM–1 molecule in the pathogenesis of rheumatoid synovitis. Matsuyama T, et al. **Hum Cell** 1996 Sep;9(3):187–92 (10 ref.)

Pustular panniculitis in a patient with rheumatoid arthritis. Kuniyuki S, et al. **Int J Dermatol** 1997 Apr;36(4):292–3

Musculoskeletal disorders: genitourinary medicine perspective [editorial] Tayal SC, et al. **Int J STD AIDS** 1996 Oct;7(6):396–9 (38 ref.)

Syndrome of inappropriate secretion of antidiuretic hormone in elderly patients with rheumatoid arthritis associated with infections: report of two cases. Furuta E, et al. **Intern Med** 1996 Jun;35(6):478–81

Bullous pemphigoid and rheumatoid arthritis: is there disease association? [letter] Sant SM, et al. **Ir J Med Sci** 1997 Apr–Jun;166(2):106–7

Perceived stressors and coping strategies among individuals with rheumatoid arthritis. Mahat G. **J Adv Nurs** 1997 Jun; 25(6):1144–50

Oral staphylococcus in older subjects with rheumatoid arthritis. Jacobson JJ, et al. **J Am Geriatr Soc** 1997 May; 45(5):590–3

Cervical myelopathy caused by bilateral fibrosis of the dorsal root ganglion in a patient who had rheumatoid arthritis. A case report. Goldberg BA, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1069–72

Mycoplasmas in rheumatoid arthritis and other human arthritides [editorial] Taylor–Robinson D, et al. **J Clin Pathol** 1996 Oct;49(10):781–2

Degos' disease associated with rheumatoid arthritis [letter] Demitsu T, et al. **J Dermatol** 1997 Jul;24(7):488–90

Rheumatoid arthritis associated with ulcerative colitis. Adachi Y, et al. **J Gastroenterol** 1996 Aug;31(4):590–5 (26 ref.)

Fracture of the hook of hamate with rupture of the flexor tendons of the small finger in a rheumatoid patient: a case report. Yang SS, et al. **J Hand Surg [Am]** 1996 Sep; 21(5):916–7

Rheumatoid arthritis and the pulmonary nodule. Byrd RW, et al. **J Ky Med Assoc** 1997 Jan;95(1):19–22

Hepatitis C infection presenting with rheumatic manifestations [letter; comment] Barkhuizen A, et al. **J Rheumatol** 1997 Jun;24(6):1238–9. Comment on: J Rheumatol 1996 Jun;23(6):979–83.

Synovial cyst as differential diagnosis of supraclavicular mass in rheumatoid arthritis. Cuende E, et al. **J Rheumatol** 1996 Aug;23(8):1432–4

Successful treatment with cyclosporin A of pure red cell aplasia associated with rheumatoid arthritis [see comments] Fujii T, et al. **J Rheumatol** 1996 Oct;23(10):1803–5. Comment in: J Rheumatol 1997 Jul;24(7):1444.

Listeria monocytogenes infection in a patient treated with methotrexate for rheumatoid arthritis. Hayem G, et al. **J Rheumatol** 1996 Jan;23(1):198–9

Association of methotrexate, rheumatoid arthritis, and melanoma in 2 patients [letter] Jeannou J, et al. **J Rheumatol** 1997 Jul;24(7):1444–5

Excess risk of lung cancer in patients with rheumatoid arthritis [letter] Kauppi M, et al. **J Rheumatol** 1996 Aug; 23(8):1484–5

The frequency of cutaneous vasculitis is not increased in patients with rheumatoid arthritis treated with methotrexate. Kaye O, et al. **J Rheumatol** 1996 Feb; 23(2):253–7

Is continuous intranasal salmon calcitonin effective in treating axial bone loss in patients with active rheumatoid arthritis receiving low dose glucocorticoid therapy? Kotaniemi A, et al. **J Rheumatol** 1996 Nov;23(11):1875–9

Recovery of erosive rheumatoid arthritis after human immunodeficiency virus–1 infection and hemiplegia. Lapadula G, et al. **J Rheumatol** 1997 Apr;24(4):747–51

Pseudo–synovial cyst arising at the pubic bone region and forming a large femoral–inguinal mass. Morita M, et al. **J Rheumatol** 1997 Feb;24(2):396–9

The diagnosis of iron deficiency in patients with rheumatoid arthritis and anemia: an algorithm using simple laboratory measures [see comments] Mulherin D, et al. **J Rheumatol** 1996 Feb;23(2):237–40. Comment in: J Rheumatol 1997 Apr;24(4):804–5.

Hydrocephalus and secondary syndrome of inappropriate antidiuretic hormone due to rheumatoid vertical atlantoaxial subluxation. Naredo Sánchez E, et al. **J Rheumatol** 1996 Jun;23(6):1098–102

Exacerbation of rheumatoid arthritis after termination of chemotherapy for breast carcinoma. Rosenstein ED, et al. **J Rheumatol** 1996 Nov;23(11):1988–90

Lipoprotein(a) and other risk factors for thrombosis in rheumatoid arthritis [letter; comment] Seriolo B, et al. **J Rheumatol** 1996 Jan;23(1):194–6. Comment on: J Rheumatol 1994 Feb;21(2):220–3. Comment on: J Rheumatol 1994 Dec;21(12):2394.

Non–Hodgkin's lymphoma in patients with rheumatoid arthritis treated with low dose methotrexate [see comments] Usman AR, et al. **J Rheumatol** 1996 Jun;23(6):1095–7. Comment in: J Rheumatol 1997 Apr;24(4):805–6; discussion 806–7. Comment in: J Rheumatol 1997 Apr;24(4):806; discussion 806–7.

Newly diagnosed rheumatoid with lower cranial nerve abnormalities. Oshiro EM. **J Spinal Disord** 1997 Feb; 10(1):87–8; discussion 88–91

Increased circulating serum amyloid A protein derivatives in rheumatoid arthritis patients with secondary amyloidosis. Migita K, et al. **Lab Invest** 1996 Sep;75(3):371–5

Treatment of pustular vasculitis in rheumatoid arthritis with colchicine [letter] Bose SK. **Natl Med J India** 1996 Nov–Dec;9(6):297–8

The management of corneal perforations associated with rheumatoid arthritis. An analysis of 32 eyes. Bernauer W, et al. **Ophthalmology** 1995 Sep;102(9):1325–37

Postsurgical hindfoot deformity of a patient with rheumatoid arthritis treated with custom–made foot orthoses and shoe modifications. Shrader JA, et al. **Phys Ther** 1997 Mar; 77(3):296–305

Focal segmental necrotizing glomerulonephritis in rheumatoid arthritis. Harper L, et al. **QJM** 1997 Feb; 90(2):125–32

Cervical epidural analgesia for management of pain associated with digital vasculitis secondary to rheumatoid arthritis. Green CR, et al. **Reg Anesth** 1997 Mar–Apr; 22(2):188–91

Are somatosensory evoked potential recording and magnetic resonance imaging useful for evaluating the risk of neurologic compromise in rheumatoid arthritis patients with atlantoaxial subluxation? Cartry O, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):584–92

Rheumatoid arthritis and bronchiectasis. A retrospective study of fourteen cases. Despaux J, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):801–8 (36 ref.)

Scintigraphy using iodine 123–labeled serum amyloid P component in ten patients with secondary AA type amyloidosis. A descriptive study [letter] Feutrie ML, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):866–9

Joint sparing in a rheumatoid arthritis patient with an inherited peripheral neuropathy. Pointud P, et al. **Rev Rhum Engl Ed** 1995 Dec;62(11):809–10

Thyroid gland disorders in primary Sjögren's syndrome. Punzi L, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):809–14

Cytokines affecting megakaryocytopoiesis in rheumatoid arthritis with thrombocytosis. Ertenli I, et al. **Rheumatol Int** 1996;16(1):5–8

Availability of iron and degree of inflammation modifies the response to recombinant human erythropoietin when treating anemia of chronic disease in patients with rheumatoid arthritis. Nordström D, et al. **Rheumatol Int** 1997;17(2):67–73

Ocular complications of adult rheumatoid arthritis. Reddy SC, et al. **Rheumatol Int** 1996;16(2):49–52

Effects of desferrioxamine therapy on chronic disease anemia associated with rheumatoid arthritis. Salvarani C, et al. **Rheumatol Int** 1996;16(2):45–8

The lungs in rheumatoid arthritis—a clinical, radiographic and pulmonary function study. Morrison SC, et al. **S Afr Med J** 1996 Jul;86(7):829–33

Comparison of body composition by dual energy X–ray absorptiometry to other estimates of body composition during weight loss in obese patients with rheumatoid arthritis. Pødenphant J, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):615–25

Early diagnosis of rheumatoid cervical myelopathy. Babić–Naglić D, et al. **Scand J Rheumatol** 1997; 26(4):247–52

Protein losing enteropathy associated with Henoch–Schönlein purpura in a patient with rheumatoid arthritis. Cho CS, et al. **Scand J Rheumatol** 1996;25(5):334–6

Bone loss in rheumatoid arthritis. Influence of disease activity, duration of the disease, functional capacity, and

corticosteroid treatment. Hansen M, et al. **Scand J Rheumatol** 1996;25(6):367–76

Undernutrition in rheumatoid arthritis patients with disability. Hernandez-Beriain JA, et al. **Scand J Rheumatol** 1996;25(6):383–7

Pure red cell aplasia in a man with RA. Tsai CY, et al. **Scand J Rheumatol** 1997;26(4):329–31

Is methotrexate oncogenic in patients with rheumatoid arthritis? [editorial; comment] Kremer JM. **Semin Arthritis Rheum** 1997 Jun;26(6):785–7. Comment on: Semin Arthritis Rheum 1997 Jun;26(6):794–804.

Epoetin alfa for autologous blood donation in patients with rheumatoid arthritis and concomitant anemia. Mercuriali F. **Semin Hematol** 1996 Apr;33(2 Suppl 2):18–20; discussion 21 (9 ref.)

Atlantoaxial fusion and retrodental pannus in rheumatoid arthritis. Grob D, et al. **Spine** 1997 Jul 15;22(14):1580–3; discussion 1584

Endoscopic hydrostatic balloon dilation of ulcer-induced pyloric stenosis in rheumatoid arthritis and secondary amyloidosis. Hizawa K, et al. **Surg Endosc** 1997 Jun; 11(6):673–5

[Vascular changes in rheumatoid diseases] Leirisalo-Repo M. **Duodecim** 1995;111(10):951–3 **(Fin)**

[Rheumatoid aortic insufficiency. Apropos of a case treated by mechanical valve replacement. Review of the literature] Moini C, et al. **Ann Cardiol Angeiol (Paris)** 1996 Jun; 45(6):329–33 (20 ref.) (Eng. Abstr.) **(Fre)**

[Bronchial dilatation and rheumatoid arthritis: a little known association] Léna H, et al. **Rev Mal Respir** 1997 Jan; 14(1):37–43 (Eng. Abstr.) **(Fre)**

[Association of Cogan's syndrome and rheumatoid arthritis (letter)] Ben Taarit C, et al. **Rev Med Interne** 1996; 17(10):860–1 **(Fre)**

[Bronchiectasis and rheumatoid arthritis. Incidence and etiopathogenic aspects. Review of the literature] Despaux J, et al. **Rev Med Interne** 1997;18(2):144–52 (81 ref.) (Eng. Abstr.) **(Fre)**

[Yellow nail syndrome associated with rheumatoid arthritis. Regression under chrysotherapy (letter)] Launay D, et al. **Rev Med Interne** 1997;18(6):494–6 **(Fre)**

[Status of the endoprosthesis in rheumatic metacarpophalangeal joints. Long-term results of metacarpophalangeal prostheses using Swanson's silastic spacers] Schmidt K, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):254–64 (Eng. Abstr.) **(Ger)**

[The rheumatic forefoot] Kerschbaumer F, et al. **Orthopade** 1996 Aug;25(4):354–61 (57 ref.) (Eng. Abstr.) **(Ger)**

[Complicated course of rheumatoid arthritis with pulmonary involvement, myocardial fibrosis and sleep apnea syndrome] Offers E, et al. **Pneumologie** 1996 Dec; 50(12):906–11 (Eng. Abstr.) **(Ger)**

[Vasculitis in rheumatoid arthritis] Bély M, et al. **Orv Hetil** 1996 Jul 21;137(29):1571–8 (Eng. Abstr.) **(Hun)**

[Human parvovirus B19 infection in a child suffering from chronic arthritis] Hosszú E, et al. **Orv Hetil** 1997 Mar 9; 138(10):611–13 (Eng. Abstr.) **(Hun)**

[Rheumatoid arthritis and dyspnea] Carroll NR, et al. **Radiol Med (Torino)** 1996 Sep;92(3):332–3 **(Ita)**

[Successful treatment of interstitial pneumonitis with cyclosporin A in a patient with rheumatoid arthritis accompanied by acute interstitial nephritis] Miyazawa S, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):33–9 (Eng. Abstr.) **(Jpn)**

[Focal segmental glomerulosclerosis presenting nephrotic syndrome and acute renal failure in a patient with rheumatoid arthritis] Sugiyama T, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):426–30 (Eng. Abstr.) **(Jpn)**

[A case of necrotizing crescentic glomerulonephritis with arteritis due to secondary amyloidosis following rheumatoid arthritis] Watanabe M, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):421–5 (Eng. Abstr.) **(Jpn)**

[Clinical and immunological study of airway disease in collagen vascular disease] Hayakawa H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:264–7 (Eng. Abstr.) **(Jpn)**

[Bronchiolitis obliterans and no radiographic abnormalities in a patient with rheumatoid arthritis] Kagamu H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):524–9 (Eng. Abstr.) **(Jpn)**

[Follicular bronchiolitis associated with rheumatoid arthritis] Morita S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug;34(8):921–5 (Eng. Abstr.) **(Jpn)**

[Pneumonia caused by varicella-zoster virus in a patient with rheumatoid arthritis] Nakamura M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):610–5 (Eng. Abstr.) **(Jpn)**

[Coping with pathological changes in nerves and blood vessels in collagen disease--vasculitis syndrome and polyneuritis] Nagasawa T, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1822–7 (5 ref.) **(Jpn)**

[Pathology and management of spinal lesions in rheumatoid arthritis] Yonenobu K, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 Sep;70(9):573–82 (30 ref.) **(Jpn)**

[A case of perforated appendix caused by secondary amyloidosis associated with rheumatoid arthritis] Kawashima I, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):569–72 **(Jpn)**

[Avellis syndrome in systemic rheumatoid vasculitis] Kashihara K, et al. **Rinsho Shinkeigaku** 1995 Oct; 35(10):1155–9 (Eng. Abstr.) **(Jpn)**

[Pericarditis in rheumatoid arthritis] Kunitomi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):602–4 (21 ref.) **(Jpn)**

[Pericarditis in collagen vascular diseases] Matsumoto Y. **Ryoikibetsu Shokogun Shirizu** 1996;(13):511–4 (15 ref.) **(Jpn)**

[A case report of systemic calcinosis associated with rheumatoid arthritis] Doita M, et al. **Ryumachi** 1996 Jun; 36(3):559–64 (Eng. Abstr.) **(Jpn)**

[A case of malignant rheumatoid arthritis associated with myelodysplastic syndrome] Hisakawa N, et al. **Ryumachi** 1997 Feb;37(1):30–5 (29 ref.) (Eng. Abstr.) **(Jpn)**

[A case of rheumatoid arthritis associated with pernicious anemia and bronchiolitis obliterans organizing pneumonia] Itoh H, et al. **Ryumachi** 1995 Dec;35(6):920–6 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Incidence of cancer among Japanese patients with rheumatoid arthritis] Miyamoto T, et al. **Ryumachi** 1996 Oct;36(5):741–5 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Endocrine disorders in patients with arthritis rheumatoid] Nagataki S. **Ryumachi** 1997 Apr;37(2):155–6 **(Jpn)**

[Crescentic glomerulonephritis in a patient with rheumatoid arthritis] Nakamura T, et al. **Ryumachi** 1997 Jun; 37(3):476–82 (Eng. Abstr.) **(Jpn)**

[Drug-induced renal disorders in patients with rheumatoid arthritis] Nakano M, et al. **Ryumachi** 1996 Oct;36(5):775–82 (40 ref.) **(Jpn)**

[Disruption of the cervical spine due to rheumatoid arthritis and its treatment] Yonenobu K. **Ryumachi** 1995 Dec; 35(6):943–52 (20 ref.) **(Jpn)**

[Osteoporosis in rheumatoid arthritis] Haugeberg G. **Tidsskr Nor Laegeforen** 1997 Feb 20;117(5):651–4 (46 ref.) (Eng. Abstr.) **(Nor)**

[A case of pleurisy with effusion in the course of rheumatoid arthritis] Sipak M. **Pneumonol Alergol Pol** 1996; 64(5–6):327–30 (Eng. Abstr.) **(Pol)**

[Rheumatoid arthritis as a risk factor for development of multiple myeloma] Usnarska-Zubkiewicz L, et al. **Pol Arch Med Wewn** 1997 Mar;97(3):253–9 (Eng. Abstr.) **(Pol)**

[Rheumatoid arthritis in a patient with osteopoikilosis] Zajdel J, et al. **Wiad Lek** 1996;49(7–12):143–6 (Eng. Abstr.) **(Pol)**

[Incidence of Helicobacter infection in adolescents with and without gastroduodenal diseases] Parkhomenko LK, et al. **Klin Med (Mosk)** 1996;74(4):50–1 **(Rus)**

[Pleural effusion as initial presentation of rheumatoid arthritis. Cytological diagnosis] Fernández-Muixí J, et al. **Arch Bronconeumol** 1996 Oct;32(8):427–9 (Eng. Abstr.) **(Spa)**

[Heart transplantation in a patient with rheumatoid arthritis] Camacho Vázquez C, et al. **Rev Esp Cardiol** 1997 May; 50(5):357–9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Increased serum levels of soluble CD44-isoform v5 in rheumatic diseases are restricted to seropositive rheumatoid arthritis. Haberhauer G, et al. **Acta Med Austriaca** 1997; 24(1):23–5

Antiperinuclear factors are present in polyarthritis before ACR criteria for rheumatoid arthritis are fulfilled [see comments] Berthelot JM, et al. **Ann Rheum Dis** 1997 Feb; 56(2):123–5. Comment in: Ann Rheum Dis 1997 Jun;56(6):395.

Polymyalgia rheumatica vs rheumatoid arthritis in the elderly [letter] González-Gay MA, et al. **Arch Intern Med** 1997 Sep 22;157(17):2016

Preliminary definition of improvement in juvenile arthritis. Giannini EH, et al. **Arthritis Rheum** 1997 Jul;40(7):1202–9

What is early rheumatoid arthritis?: definition and diagnosis. Emery P, et al. **Baillieres Clin Rheumatol** 1997 Feb; 11(1):13–26 (30 ref.)

A practical guide to patient education and information giving. Hill J. **Baillieres Clin Rheumatol** 1997 Feb;11(1):109–27 (53 ref.)

Specialist management: needs and benefits. Stucki G. **Baillieres Clin Rheumatol** 1997 Feb;11(1):97–107 (49 ref.)

Can we predict aggressive disease? Young A, et al. **Baillieres Clin Rheumatol** 1997 Feb;11(1):27–48 (59 ref.)

Serum galactosyltransferase as a marker of disease activity in rheumatoid arthritis. Alavi A, et al. **Biochem Soc Trans** 1997 May;25(2):313S

Diagnostic value of anti-RA33 antibody, antikeratin antibody, antiperinuclear factor and antinuclear antibody in early rheumatoid arthritis: comparison with rheumatoid factor [see comments] Cordonnier C, et al. **Br J Rheumatol** 1996 Jul;35(7):620–4. Comment in: Br J Rheumatol 1997 Jun;36(6):710–2.

Detection of joint pathology by magnetic resonance imaging in patients with early rheumatoid arthritis. Forslind K, et al. **Br J Rheumatol** 1997 Jun;36(6):683–8

Video image analysis of hands: development of an 'anatomic index' as a potential outcome measure in rheumatoid arthritis. Highton J, et al. **Br J Rheumatol** 1996 Dec; 35(12):1274–80

MRI in assessment of the systemic manifestations of rheumatological disease. Kainberger F, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:40–4 (22 ref.)

Quantitative assessment of the synovial membrane in the rheumatoid wrist: an easily obtained MRI score reflects the synovial volume. Ostergaard M, et al. **Br J Rheumatol** 1996 Oct;35(10):965–71

MRI evaluation of the knee in rheumatoid arthritis. Poleksic L, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:36–9

Clinical and laboratory assessments in rheumatoid arthritis and osteoarthritis. Scott DL, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:6–9

Contrast-enhanced MRI of rheumatic joint disease. Smith HJ. **Br J Rheumatol** 1996 Dec;35 Suppl 3:45–7

Predicting and deciding on remission in rheumatoid arthritis [editorial; comment] Stucki G. **Br J Rheumatol** 1996 Nov; 35(11):1039–40. Comment on: Br J Rheumatol 1996 Nov;35(11):1096–100. Comment on: Br J Rheumatol 1996 Nov;35(11):1101–5.

Gliostatin/platelet-derived endothelial cell growth factor as a clinical marker of rheumatoid arthritis and its regulation in fibroblast-like synoviocytes. Waguri Y, et al. **Br J Rheumatol** 1997 Mar;36(3):315–21

Management of the early and late presentations of rheumatoid arthritis: a survey of Ontario primary care physicians. Glazier RH, et al. **Can Med Assoc J** 1996 Sep 15; 155(6):679–87

Contrast enhanced Gd-DTPA magnetic resonance imaging in the evaluation of rheumatoid arthritis during a clinical trial with DMARDs. A prospective two-year follow-up study on hand joints in 31 patients. Jevtic V, et al. **Clin Exp Rheumatol** 1997 Mar–Apr;15(2):151–6

Prognostic criteria in rheumatoid arthritis: can we predict which patients will require specific anti-rheumatoid treatment? Kirwan JR, et al. **Clin Exp Rheumatol** 1997 May–Jun;15 Suppl 17:S15–25 (31 ref.)

Crohn's disease associated with seropositive rheumatoid arthritis. Toussirot E, et al. **Clin Exp Rheumatol** 1997 May–Jun;15(3):307–11

Antikeratin antibodies (AKA) negativity in primary biliary cirrhosis (PBC): confirmation of their specificity in the diagnosis of rheumatoid arthritis (RA) [letter] Fusconi M, et al. **Clin Rheumatol** 1996 Nov;15(6):617–8

Rheumatoid arthritis: a commonly misused diagnosis by the general population. Gram IT, et al. **Clin Rheumatol** 1997 May;16(3):264–6

Multicentric reticulohistiocytosis. Kocanaogullari H, et al. **Clin Rheumatol** 1996 Jan;15(1):62–66

The rheumatoid knee before and after arthrocentesis and prednisolone injection: evaluation by Gd-enhanced MRI. Leitch R, et al. **Clin Rheumatol** 1996 Jul;15(4):358–66

Bilateral fast MR imaging of the rheumatoid wrist. Pierre-Jerome C, et al. **Clin Rheumatol** 1996 Jan;15(1):42–6

The rheumatoid wrist: bilateral MR analysis of the distribution of rheumatoid lesions in axial plan in a female population. Pierre-Jerome C, et al. **Clin Rheumatol** 1997 Jan;16(1):80–6

Standardising joint assessment in rheumatoid arthritis. Scott DL, et al. **Clin Rheumatol** 1996 Nov;15(6):579–82

Established and new biochemical tools for diagnosis and monitoring of rheumatoid arthritis. Wollheim FA. **Curr Opin Rheumatol** 1996 May;8(3):221–5 (42 ref.)

Medical aspects of rheumatoid arthritis. Diagnosis and treatment. Massarotti EM. **Hand Clin** 1996 Aug; 12(3):463–75 (68 ref.)

Cryocrystalglobulinemia mimicking rheumatoid arthritis and vasculitis. Albert L, et al. **J Rheumatol** 1996 Jul; 23(7):1272–7

The continuing challenge of predictive factors in rheumatoid arthritis [letter] Coste J, et al. **J Rheumatol** 1997 Aug; 24(8):1653–4

The Juvenile Arthritis Quality of Life Questionnaire--development of a new responsive index for juvenile rheumatoid arthritis and juvenile spondyloarthritides. Duffy CM, et al. **J Rheumatol** 1997 Apr;24(4):738–46

Inflammatory polyarthritis in the community is not a benign disease: predicting functional disability one year after presentation. Harrison BJ, et al. **J Rheumatol** 1996 Aug; 23(8):1326–31

The validity of self-reported diagnosis of rheumatoid arthritis: results from a population survey followed by clinical examinations. Kvien TK, et al. **J Rheumatol** 1996 Nov;23(11):1866–71

Magnetic resonance imaging of the wrist in defining remission of rheumatoid arthritis. Lee J, et al. **J Rheumatol** 1997 Jul; 24(7):1303–8

Hepatitis C infection presenting with rheumatic manifestations: a mimic of rheumatoid arthritis [see comments] Lovy MR, et al. **J Rheumatol** 1996 Jun; 23(6):979–83. Comment in: J Rheumatol 1997 Jun;24(6):1238–9.

Correlation of erythrocyte sedimentation rate and outdoor temperature in a patient with rheumatoid arthritis [letter] Patberg WR. **J Rheumatol** 1997 May;24(5):1017–8

Distinguishing polymyalgia rheumatica from early elderly onset rheumatoid arthritis [letter] Salvarani C, et al. **J Rheumatol** 1996 Mar;23(3):570

Accelerated nodulosis in a patient with psoriasis and arthritis during treatment with methotrexate [letter; comment] Smith MD. **J Rheumatol** 1996 Nov;23(11):2004. Comment on: J Rheumatol 1995 Dec;22(12):2359–60.

Total assessment of rheumatoid polyarthritis--a postgraduate training program for physical and occupational therapists: a 20 year success story. Stokes BA, et al. **J Rheumatol** 1997 Aug;24(8):1634–8

The continuing challenge of predictive factors in rheumatoid arthritis: prediction or association? [editorial; comment] [published erratum appears in J Rheumatol 1997 Mar;24(3):613] van der Heijde DM. **J Rheumatol** 1997 Jan; 24(1):6–8. Comment on: J Rheumatol 1997 Jan;24(1):28–34.

Recruitment of patients with early rheumatoid arthritis -- the Netherlands experience. Speyer I, et al. **J Rheumatol Suppl** 1996 Mar;44:84–5

Development and evaluation of fuzzy criteria for the diagnosis of rheumatoid arthritis. Leitich H, et al. **Methods Inf Med** 1996 Dec;35(4–5):334–42

Substance P in the serum of patients with rheumatoid arthritis. Anichini M, et al. **Rev Rhum Engl Ed** 1997 Jan; 64(1):18–21

Are somatosensory evoked potential recording and magnetic resonance imaging useful for evaluating the risk of neurologic compromise in rheumatoid arthritis patients with atlantoaxial subluxation? Cartry O, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):584–92

"Very early" rheumatoid arthritis why and how should it be studied? [editorial] Le Loet X, et al. **Rev Rhum Engl Ed** 1996 Jul–Sep;63(7–8):465–7 (31 ref.)

Juvenile (chronic) arthritis is not juvenile rheumatoid arthritis [editorial] Prieur AM. **Rev Rhum Engl Ed** 1996 Jan; 63(1):1–4

Clinical, laboratory, and radiographic features of rheumatoid arthritis with and without nodules. Saraux A, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):11–7

Quantitative analysis of pyridinium crosslinks of collagen in the synovial fluid of patients with rheumatoid arthritis using high–performance liquid chromatography. Müller A, et al. **Rheumatol Int** 1996;16(1):23–8

Antiperinuclear factor: a useful test for the diagnosis of rheumatoid arthritis. Muñoz–Fernández S, et al. **Rheumatol Int** 1995;15(4):145–9

Immunohistochemical detection of factor XIIIa and factor XIIIs in synovial membranes of patients with rheumatoid arthritis or osteoarthritis. Plenz A, et al. **Rheumatol Int** 1996;16(1):29–36

Arthritis diagnosis based upon the near–infrared spectrum of synovial fluid. Shaw RA, et al. **Rheumatol Int** 1995; 15(4):159–65

Clinical assessment of the 1987 American College of Rheumatology criteria for rheumatoid arthritis [see comments] Levin RW, et al. **Scand J Rheumatol** 1996; 25(5):277–81. Comment in: Scand J Rheumatol 1997;26(3):229.

Muscle involvement in rheumatoid arthritis: clinicopathological study of 21 symptomatic cases. Miró O, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):421–8

Clinics in diagnostic imaging (24). Cervical spine instability in seronegative rheumatoid arthritis [published erratum appears in Singapore Med J 1997 Jun;38(6):274] Chu FS, et al. **Singapore Med J** 1997 Apr;38(4):172–6

Gadolinium–enhanced MR imaging of the wrist in rheumatoid arthritis: value of fat suppression pulse sequences. Nakahara N, et al. **Skeletal Radiol** 1996 Oct; 25(7):639–47

The features of rheumatoid arthritis in the patients above the age of 60. Popović R, et al. **Vojnosanit Pregl** 1996 Nov–Dec;53(6):451–61 **(Eng, Scr)**

[Volumes of synovial membrane and joint effusion determined by MR imaging. Markers of severity and/or activity in rheumatoid arthritis? (see comments)] Ostergaard M, et al. **Ugeskr Laeger** 1997 Jun 16; 159(25):3956–61 (Eng. Abstr.). Comment in: Ugeskr Laeger 1997 Aug 11;159(33):4998–9. **(Dan)**

[Hormonal status of the woman and its effect on symptoms and progression of chronic polyarthritis] Siegmeth W, et al. **Acta Med Austriaca** 1996;23(4):124–8 (Eng. Abstr.) **(Ger)**

[Lower abdominal pain. Rheumatologic–orthopedic aspects] Stucki G. **Arch Gynecol Obstet** 1996;259 Suppl 1:S61–5 **(Ger)**

[Diagnostic strategies in rheumatology. 2: Clinical diagnosis--stage 3] Keitel W. **Fortschr Med** 1997 Mar 30; 115(9):46–8 **(Ger)**

[Rheumatoid neutrophilic dermatitis--a rare dermatosis in patients with active rheumatoid arthritis] Mrowietz U, et al. **Hautarzt** 1996 Dec;47(12):921–6 (8 ref.) (Eng. Abstr.) **(Ger)**

[Arthritis: imaging and therapy. Past, present and future] Jewell F, et al. **Radiologe** 1996 Aug;36(8):646–56 (102 ref.) (Eng. Abstr.) **(Ger)**

[MRI and ultrasound in rheumatology] Kainberger F, et al. **Radiologe** 1996 Aug;36(8):609–16 (38 ref.) (Eng. Abstr.) **(Ger)**

[Diagnosis and therapy of chronic polyarthritis] Leeb BF, et al. **Radiologe** 1996 Aug;36(8):657–62 (21 ref.) (Eng. Abstr.) **(Ger)**

[Use of gadoteridol in MR diagnosis of rheumatoid changes in the joints] Link TM, et al. **Radiologe** 1996 Feb; 36(2):141–7 (Eng. Abstr.) **(Ger)**

[Primary chronic polyarthritis of the knee joint] Rand T, et al. **Radiologe** 1996 Aug;36(8):617–23 (16 ref.) (Eng. Abstr.) **(Ger)**

[A proposal for the MR staging of early rheumatoid arthritis in the metacarpophalangeal and proximal interphalangeal joints] Scheck RJ, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):215–20 (Eng. Abstr.) **(Ger)**

[Magnetic resonance tomography in early diagnosis of rheumatoid arthritis] Uhl M, et al. **Rontgenpraxis** 1997 Jun; 50(6):130–4 (22 ref.) **(Ger)**

[The rheumatoid patient as back pain patient. Diagnosis and differential diagnosis of seronegative spondylarthropathies] Lakomek HJ. **Versicherungsmedizin** 1997 Jun 1;49(3):78–81 (8 ref.) (Eng. Abstr.) **(Ger)**

[Nosologic criteria in rheumatology] Genth E. **Z Rheumatol** 1996 Sep–Oct;55(5):319–30 (78 ref.) (Eng. Abstr.) **(Ger)**

[Comparative evaluation of a German version of the Health Assessment Questionnaire and the Hannover Functional Capacity Questionnaire] Lautenschläger J, et al. **Z Rheumatol** 1997 May–Jun;56(3):144–55 (Eng. Abstr.) **(Ger)**

[RA–specific autoantibodies against a 68k antigen] Specker C, et al. **Z Rheumatol** 1997 Mar–Apr;56(2):63–70 (Eng. Abstr.) **(Ger)**

[The diagnostic value of IgG galactosylation in rheumatoid arthritis] Kelemen J, et al. **Orv Hetil** 1997 Jun 15; 138(24):1577–8 (25 ref.) (Eng. Abstr.) **(Hun)**

[Differential diagnosis and treatment of chronic rheumatoid arthritis] Hashimoto H. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):444–7 (8 ref.) **(Jpn)**

[Clinical evaluation of immuno–serological laboratory data] Kasukawa R, et al. **Rinsho Byori** 1996 Dec;44(12):1157–63 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical significance of serum soluble interleukin–2 receptor (sIL–2R) determination in patients with rheumatoid arthritis] Takemura M, et al. **Rinsho Byori** 1996 Jun; 44(6):564–8 (Eng. Abstr.) **(Jpn)**

[Rheumatoid arthritis and juvenile rheumatoid arthritis] Fukuda J, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (15):192–4 (7 ref.) **(Jpn)**

[Is it possible to diagnosis patients with early–stage arthritis?] Matsuhara T. **Ryumachi** 1997 Apr;37(2):161–2 **(Jpn)**

[Antigenic epitopes recognized by autoantibodies to calpastatin in patients with rheumatoid arthritis and their clinical significance] Yasuoka H, et al. **Ryumachi** 1997 Jun; 37(3):458–66 (Eng. Abstr.) **(Jpn)**

[Standardization of quantitative measurement of rheumatoid factor] Yoshinoya S, et al. **Ryumachi** 1996 Dec;36(6):819–29 (Eng. Abstr.) **(Jpn)**

[Rheumatoid arthritis and multiple myeloma--the risk of a combination of the 2 diseases] Lila AM, et al. **Ter Arkh** 1997;69(2):50–2 (21 ref.) **(Rus)**

[The characteristics of arterial hypertension in rheumatoid arthritis] Zvereva KV, et al. **Ter Arkh** 1997;69(5):26–7 (Eng. Abstr.) **(Rus)**

[Incorrect diagnosis of peripheral arthritis in ankylosing spondylitis] Jajić Z, et al. **Reumatizam** 1996;43(2):17–9 (Eng. Abstr.) **(Scr)**

[High titers of rheumatoid factor: clinical significance] Naranjo Hernández A, et al. **Rev Clin Esp** 1997 Apr; 197(4):232–6 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Faecal microbial flora and disease activity in rheumatoid arthritis during a vegan diet. Peltonen R, et al. **Br J Rheumatol** 1997 Jan;36(1):64–8

Nutritional status of Danish rheumatoid arthritis patients and effects of a diet adjusted in energy intake, fish–meal, and antioxidants. Hansen GV, et al. **Scand J Rheumatol** 1996; 25(5):325–30

[English walnuts in the combined treatment of rheumatoid arthritis patients] Virstiuk NH. **Lik Sprava** 1997 Mar–Apr; (2):123–6 **(Ukr)**

DRUG THERAPY

WD–40 and arthritic pain: the squeaky joint gets the grease [letter] Ramratham B, et al. **Am Fam Physician** 1997 Apr; 55(5):1584

Liver toxicity does not have to follow methotrexate therapy of patients with rheumatoid arthritis [editorial] [see comments] Kremer JM. **Am J Gastroenterol** 1997 Feb; 92(2):194–6 (29 ref.). Comment in: Am J Gastroenterol 1997 Aug;92(8):1402–3.

Re: J.M. Kremer--editorial [letter; comment] Levin DM. **Am J Gastroenterol** 1997 Aug;92(8):1402–3. Comment on: Am J Gastroenterol 1997 Feb;92(2):194–6.

Prevention with sucralfate gel of NSAID–induced gastroduodenal damage in arthritic patients. Miglioli M, et al. **Am J Gastroenterol** 1996 Nov;91(11):2367–71

Double–blind, double–dummy endoscopic comparison of the mucosal protective effects of misoprostol versus ranitidine on naproxen–induced mucosal injury to the stomach and duodenum in rheumatic patients. Porro GB, et al. **Am J Gastroenterol** 1997 Apr;92(4):663–7

Emerging treatments for rheumatoid arthritis. Schiff M. **Am J Med** 1997 Jan 27;102(1A):11S–15S (38 ref.)

Clinical efficacy and safety of Naprelan versus Naprosyn in the treatment of rheumatoid arthritis. Lisse JR. **Am J Orthop** 1996 Sep;25(9 Suppl):21–9

Corticosteroid resistance in other disease states and tissues. Lane SJ, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S62–5 (15 ref.)

The safety of weekly low dose oral methotrexate in an Oriental population with rheumatoid arthritis. Thumboo J, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):205–9

Risk factors for methotrexate–induced lung injury in patients with rheumatoid arthritis. A multicenter, case–control study. Methotrexate–Lung Study Group. Alarcón GS, et al. **Ann Intern Med** 1997 Sep 1;127(5):356–64

Calcium and vitamin D3 supplementation prevents bone loss in the spine secondary to low–dose corticosteroids in patients with rheumatoid arthritis. A randomized, double–blind, placebo–controlled trial [see comments] Buckley LM, et al. **Ann Intern Med** 1996 Dec 15; 125(12):961–8. Comment in: Ann Intern Med 1997 Jul 1;127(1):90.

Ibuprofen–induced aseptic meningitis in rheumatoid arthritis. Horn AC, et al. **Ann Pharmacother** 1997 Sep;31(9):1009–11

The timing of glucocorticoid administration in rheumatoid arthritis. Arvidson NG, et al. **Ann Rheum Dis** 1997 Jan; 56(1):27–31

Study of eight cases of cancer in 426 rheumatoid arthritis patients treated with methotrexate. Bologna C, et al. **Ann Rheum Dis** 1997 Feb;56(2):97–102 (33 ref.)

Androgens as adjuvant treatment in postmenopausal female patients with rheumatoid arthritis. Booji A, et al. **Ann Rheum Dis** 1996 Nov;55(11):811–5

Quantitative magnetic resonance imaging of the knee: a method of measuring response to intra–articular treatments. Creamer P, et al. **Ann Rheum Dis** 1997 Jun;56(6):378–81

Combination DMARD therapy for rheumatoid arthritis. Full or low DMARD doses? [letter; comment] Ferraccioli GF, et al. **Ann Rheum Dis** 1997 May;56(5):336–7. Comment on: Ann Rheum Dis 1996 Nov;55(11):781–3.

An open study of pentoxyfylline and thalidomide as adjuvant therapy in the treatment of rheumatoid arthritis. Huizinga TW, et al. **Ann Rheum Dis** 1996 Nov;55(11):833–6

Dilemmas of low dosage glucocorticoid treatment in rheumatoid arthritis: considerations of timing. Masi AT, et al. **Ann Rheum Dis** 1997 Jan;56(1):1–4

Effect of disease modifying agents on the lipid profiles of patients with rheumatoid arthritis [see comments] Munro R, et al. **Ann Rheum Dis** 1997 Jun;56(6):374–7. Comment in: Ann Rheum Dis 1997 Jun;56(6):341–2.

Combination DMARD therapy for rheumatoid arthritis: a step closer to the goal [editorial] [see comments] O'Dell JR. **Ann Rheum Dis** 1996 Nov;55(11):781–3. Comment in: Ann Rheum Dis 1997 May;56(5):336–7.

Dyslipidemia and rheumatoid arthritis [comment] Situnayake RD, et al. **Ann Rheum Dis** 1997 Jun;56(6):341–2. Comment on: Ann Rheum Dis 1997 Jun;56(6):374–7.

Effect of resumption of second line drugs in patients with rheumatoid arthritis that flared up after treatment discontinuation. ten Wolde S, et al. **Ann Rheum Dis** 1997 Apr;56(4):235–9

Guidelines for folate supplementation in rheumatoid arthritis patients treated with methotrexate: comment on the guidelines for monitoring drug therapy [letter] Alarcón GS, et al. **Arthritis Rheum** 1997 Feb;40(2):391; discussion 391–2

Pancytopenia secondary to methotrexate therapy in rheumatoid arthritis: comment on the article by Gutierrez–Ureña et al [letter; comment] Berthelot JM, et al. **Arthritis Rheum** 1997 Jan;40(1):193–4; discussion 195–6 (27 ref.). Comment on: Arthritis Rheum 1996 Feb;39(2):272–6.

Minocycline in rheumatoid arthritis [editorial; comment] Breedveld FC. **Arthritis Rheum** 1997 May;40(5):794–6. Comment on: Arthritis Rheum 1997 May;40(5):842–8.

Could the cytomegalovirus be an innocent bystander in methotrexate–treated rheumatoid arthritis patients? [letter; comment] Gangji V, et al. **Arthritis Rheum** 1996 Sep; 39(9):1608–9. Comment on: Arthritis Rheum 1995 Feb;38(2):291–2. Comment on: Arthritis Rheum 1995 Dec;38(12):1861–2.

Effects of interferon beta–1B in rheumatoid arthritis: a case report [letter] Jabaily JA, et al. **Arthritis Rheum** 1997 Jul; 40(7):1370

Incidence of pancytopenia with methotrexate treatment of rheumatoid arthritis in Germany: comment on the article by Gutierrez–Ureña et al [letter; comment] Kassai A, et al. **Arthritis Rheum** 1997 Jan;40(1):195–6. Comment on: Arthritis Rheum 1996 Feb;39(2):272–6.

Safety, efficacy, and mortality in a long–term cohort of patients with rheumatoid arthritis taking methotrexate: followup after a mean of 13.3 years. Kremer JM. **Arthritis Rheum** 1997 May;40(5):984–5

Biologic agents for treating rheumatoid arthritis. Concepts and progress. Moreland LW, et al. **Arthritis Rheum** 1997 Mar;40(3):397–409 (123 ref.)

Treatment of early rheumatoid arthritis with minocycline or placebo: results of a randomized, double–blind, placebo–controlled trial [see comments] O'Dell JR, et al. **Arthritis Rheum** 1997 May;40(5):842–8. Comment in: Arthritis Rheum 1997 May;40(5):794–6.

Renal biopsy findings and followup of renal function in rheumatoid arthritis patients treated with cyclosporin A. An update from the International Kidney Biopsy Registry. Rodriguez F, et al. **Arthritis Rheum** 1996 Sep;39(9):1491–8

A cautionary approach to clinical guidelines: comment on the guidelines for monitoring drug therapy in rheumatoid arthritis [letter] Russell AS, et al. **Arthritis Rheum** 1997 Feb;40(2):391; discussion 391–2

Rheumatoid arthritis lung disease. Determinants of radiographic and physiologic abnormalities. Saag KG, et al. **Arthritis Rheum** 1996 Oct;39(10):1711–9

Low–dose corticosteroids in rheumatoid arthritis. A

meta-analysis of their moderate-term effectiveness. Saag KG, et al. **Arthritis Rheum** 1996 Nov;39(11):1818-25

Effect of combination therapy with cyclosporine and methotrexate on liver function test results in rheumatoid arthritis. Stein CM, et al. **Arthritis Rheum** 1997 Sep; 40(9):1721-3

Tuberculosis cutis colliquativa during long-term immunosuppressive therapy for rheumatoid arthritis. Sutor GC, et al. **Arthritis Rheum** 1997 Jan;40(1):188-90

A randomized, double-blind study comparing twenty-four-week treatment with recombinant interferon-gamma versus placebo in the treatment of rheumatoid arthritis. Veys EM, et al. **Arthritis Rheum** 1997 Jan;40(1):62-8

Effects of pulse methylprednisolone on inflammatory mediators in peripheral blood, synovial fluid, and synovial membrane in rheumatoid arthritis. Youssef PP, et al. **Arthritis Rheum** 1997 Aug;40(8):1400-8

gamma-Linolenic acid treatment of rheumatoid arthritis. A randomized, placebo-controlled trial. Zurier RB, et al. **Arthritis Rheum** 1996 Nov;39(11):1808-17

Nitritoid reaction in a patient on ACE inhibitor and Myocrisin treatments [letter] Ching DW, et al. **Aust N Z J Med** 1997 Jun;27(3):343

Early rheumatoid arthritis. Future treatment. Breedveld FC. **Baillieres Clin Rheumatol** 1997 Feb;11(1):83-96 (42 ref.)

A practical guide to patient education and information giving. Hill J. **Baillieres Clin Rheumatol** 1997 Feb;11(1):109-27 (53 ref.)

Clinical guidelines for management. Scott DL. **Baillieres Clin Rheumatol** 1997 Feb;11(1):157-79 (78 ref.)

Treatment of early rheumatoid arthritis patients with slow-acting anti-rheumatic drugs (SAARDs). van Gestel AM, et al. **Baillieres Clin Rheumatol** 1997 Feb;11(1):65-82 (33 ref.)

Cyclosporin can be used in early rheumatoid arthritis [letter; comment] Dawson JK, et al. **BMJ** 1997 Jun 21; 314(7097):1828. Comment on: BMJ 1997 Mar 15;314(7083):766-7.

Disease modifying drugs in rheumatoid arthritis [editorial] [see comments] Wollheim FA. **BMJ** 1997 Mar 15; 314(7083):766-7. Comment in: BMJ 1997 Jun 21;314(7097):1828.

Combination of methotrexate and sulphasalazine in patients with rheumatoid arthritis: pharmacokinetic analysis and relationship to clinical response. Haagsma CJ, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):195-200

Corticosteroids in rheumatoid arthritis [letter; comment] Haslock I. **Br J Hosp Med** 1996 Jun 19-Jul 9;56(1):50. Comment on: Br J Hosp Med 1996 Mar 6-19;55(5):235-6.

Are rheumatoid arthritis patients more willing to accept non-steroidal anti-inflammatory drug treatment risks than osteoarthritis patients? Bagge E, et al. **Br J Rheumatol** 1997 Apr;36(4):470-2

Adding low-dose cyclosporin A to parenteral gold therapy in rheumatoid arthritis: a double-blind placebo-controlled study. Bendix G, et al. **Br J Rheumatol** 1996 Nov; 35(11):1142-9

Quantitative liver function in patients with rheumatoid arthritis treated with low-dose methotrexate: a longitudinal study. Beyeler C, et al. **Br J Rheumatol** 1997 Mar; 36(3):338-44

Urinary 6 beta-hydroxycortisol excretion in rheumatoid arthritis. Beyeler C, et al. **Br J Rheumatol** 1997 Jan; 36(1):54-8

Long-term follow-up of 453 rheumatoid arthritis patients treated with methotrexate: an open, retrospective, observational study. Bologna C, et al. **Br J Rheumatol** 1997 May;36(5):535-40

Sulphasalazine in the treatment of rheumatoid arthritis. Box SA, et al. **Br J Rheumatol** 1997 Mar;36(3):382-6 (64 ref.)

Management of oral complications of disease-modifying drugs in rheumatoid arthritis. Carpenter EH, et al. **Br J Rheumatol** 1997 Apr;36(4):473-8

Testosterone metabolism and cyclosporin A treatment in rheumatoid arthritis. Cutolo M, et al. **Br J Rheumatol** 1997 Apr;36(4):433-9

New perspectives on controlling progression of severe rheumatoid arthritis--a summary of the potential role of cyclosporin. Emery P, et al. **Br J Rheumatol** 1996 Sep;35 Suppl 2:1-3 (15 ref.)

Corticosteroid use and abuse by medical practitioners for arthritis and related disorders in Pakistan. Farooqi AZ, et al. **Br J Rheumatol** 1997 Jan;36(1):91-4

Is the control of disease progression within our grasp? Review of the GRISAR study. (Gruppo Reumatologi Italiani Studio Artrite Reumatoide). Ferraccioli GF, et al. **Br J Rheumatol** 1996 Sep;35 Suppl 2:8-13

Auranofin is safe and superior to placebo in elderly-onset rheumatoid arthritis. Glennås A, et al. **Br J Rheumatol** 1997 Aug;36(8):870-7

Why intramuscular methotrexate may be more efficacious than oral dosing in patients with rheumatoid arthritis. Hamilton RA, et al. **Br J Rheumatol** 1997 Jan;36(1):86-90

Central nervous system toxicity of cyclosporin A treatment in rheumatoid arthritis. Kutlay S, et al. **Br J Rheumatol** 1997 Mar;36(3):397-9

Rheumatoid arthritis: a possible sex bias in commencing second-line treatment [letter] Larkin JG, et al. **Br J Rheumatol** 1997 May;36(5):613-4

Effects of disease and corticosteroids on appendicular bone mass in postmenopausal women with rheumatoid arthritis: comparison with axial measurements. Martin JC, et al. **Br J Rheumatol** 1997 Jan;36(1):43-9

Penicillamine. Munro R, et al. **Br J Rheumatol** 1997 Jan; 36(1):104-9 (54 ref.)

A comparison of disease status in rheumatoid arthritis patients attending and not attending a specialist clinic. Newman J, et al. **Br J Rheumatol** 1996 Nov;35(11):1169-71

The use of cyclosporin A microemulsion in rheumatoid arthritis: conclusions of an international review. Panayi GS, et al. **Br J Rheumatol** 1997 Jul;36(7):808-11 (5 ref.)

Comparison of intramuscular methotrexate and gold sodium thiomalate in the treatment of early erosive rheumatoid arthritis: 12 month data of a double-blind parallel study of 174 patients. Rau R, et al. **Br J Rheumatol** 1997 Mar; 36(3):345-52

Relationship between pentosidine levels in serum and urine and activity in rheumatoid arthritis. Takahashi M, et al. **Br J Rheumatol** 1997 Jun;36(6):637-42

Development and validation of response criteria in rheumatoid arthritis: steps towards an international consensus on prognostic markers. van Riel PL, et al. **Br J Rheumatol** 1996 Sep;35 Suppl 2:4-7

The two-year follow-up of a randomized comparison of in-patient multidisciplinary team care and routine out-patient care for active rheumatoid arthritis. Vliet Vlieland TP, et al. **Br J Rheumatol** 1997 Jan;36(1):82-5

Combination therapy with cyclosporin in rheumatoid arthritis. Yocum DE. **Br J Rheumatol** 1996 Sep;35 Suppl 2:19-23 (34 ref.)

Another look at minocycline [letter; comment] Alarcón GS, et al. **Bull Rheum Dis** 1996 Dec;45(8):6-7. Comment on: Bull Rheum Dis 1996 Apr;45(2):2-5.

Benefits of low-dose corticosteroids in rheumatoid arthritis. Cohen MD, et al. **Bull Rheum Dis** 1997 Jun;46(4):4-7 (18 ref.)

Should minocycline be used to treat rheumatoid arthritis? [see comments] Panush RS, et al. **Bull Rheum Dis** 1996 Apr;45(2):2-5 (33 ref.). Comment in: Bull Rheum Dis 1996 Dec;45(8):6-7.

Dangers of low-dose corticosteroid therapy in rheumatoid arthritis. Ramos-Remus C, et al. **Bull Rheum Dis** 1997 Jun; 46(4):1-4 (19 ref.)

Acetylsalicylic acid (ASA) and nonsteroidal anti-inflammatory drugs (NSAIDs) during pregnancy. Are they safe? Theis JG. **Can Fam Physician** 1996 Dec; 42:2347-9

Modulation of hu/mu severe combined immunodeficient (SCID) mouse arthritis by local application of human recombinant IL-1beta, IL-2 and IL-6. Kuhn H, et al. **Clin Exp Immunol** 1997 Jan;107(1):96-102

Direct costs of medical attention to Mexican patients with rheumatoid arthritis in a tertiary care center. Ariza-Ariza R, et al. **Clin Exp Rheumatol** 1997 Jan-Feb;15(1):75-8

Possible role of methotrexate in the distal tibiae fractures in a patient with rheumatoid arthritis [letter] Bologna C, et al. **Clin Exp Rheumatol** 1996 May-Jun;14(3):343-4

Association of methotrexate and corticosteroids in the treatment of patients with rheumatoid arthritis. Bologna C, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):401-6

Statistical considerations concerning clinical studies designed to assess DC-ARTs. Della Casa-Alberighi O, et al. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S45-52 (48 ref.)

Influence of methotrexate on radiographic progression in rheumatoid arthritis: a sixty-month prospective study. Drosos AA, et al. **Clin Exp Rheumatol** 1997 May-Jun; 15(3):263-7

D-penicillamine in early rheumatoid arthritis: experience from a 2-year double blind placebo controlled study. Eberhardt K, et al. **Clin Exp Rheumatol** 1996 Nov-Dec; 14(6):625-31

Effects of cyclosporin on joint damage in rheumatoid arthritis. The Italian Rheumatologists Study Group on Rheumatoid Arthritis. Ferraccioli GF, et al. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S83-9 (32 ref.)

Atypical methotrexate dermatitis in a patient with rheumatoid arthritis [letter] Giordano N, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):450

A stepwise increased dose of auranofin does not influence gastrointestinal side-effects [letter] Johannsen F, et al. **Clin Exp Rheumatol** 1997 Jul-Aug;15(4):454-5

Oxidative burst of neutrophils in patients with rheumatoid arthritis: influence of various cytokines and medication. Mur E, et al. **Clin Exp Rheumatol** 1997 May-Jun; 15(3):233-7

The design of clinical trials aimed at assessing the DC-ART properties of new molecules in rheumatoid arthritis. Ortiz Z, et al. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S39-44 (33 ref.)

Why randomized controlled clinical trials do not depict accurately long-term outcomes in rheumatoid arthritis: some explanations and suggestions for future studies. Pincus T, et al. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S27-38 (59 ref.)

Three-year prospective study on methotrexate in rheumatoid arthritis. Analysis of radiological progression and comparison with a retrospective study [letter] Salaffi F, et al. **Clin Exp Rheumatol** 1996 May-Jun;14(3):350-1

Currently used second-line agents: do they control the disease course? van de Putte LB, et al. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S71-4 (25 ref.)

Adverse drug reactions of DMARDs and DC-ARTs in rheumatoid arthritis. Wolfe F. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S75-81 (77 ref.)

Chloroquine neuromyopathy. Nucci A, et al. **Clin Neuropathol** 1996 Sep-Oct;15(5):256-8

Clinical pharmacokinetics of low-dose pulse methotrexate in rheumatoid arthritis. Bannwarth B, et al. **Clin Pharmacokinet** 1996 Mar;30(3):194-210 (105 ref.)

D-penicillamine-induced myositis in rheumatoid arthritis. Chappel R, et al. **Clin Rheumatol** 1996 Jan;15(1):86-7

Thrombocytopenia in patients with rheumatoid arthritis on long-term treatment with low dose methotrexate. Franck H, et al. **Clin Rheumatol** 1996 May;15(3):266-70

Aceclofenac in rheumatoid arthritis: a useful and novel anti-inflammatory. Hunter JA, et al. **Clin Rheumatol** 1996 Jul;15(4):329-34

The frequency and clinical characteristics of methotrexate (MTX) oral toxicity in rheumatoid arthritis (RA): a masked and controlled study. Ince A, et al. **Clin Rheumatol** 1996 Sep;15(5):491-4

Clinical characteristics related to methotrexate-induced pancytopenia [letter] Ohosone Y, et al. **Clin Rheumatol** 1997 May;16(3):321-3

Comparative study of the efficacy and safety of aceclofenac and tenoxicam in rheumatoid arthritis. Perez-Ruiz F, et al. **Clin Rheumatol** 1996 Sep;15(5):473-7

Methotrexate-induced pneumonitis in patients with rheumatoid arthritis and psoriatic arthritis: report of five cases and review of the literature. Salaffi F, et al. **Clin Rheumatol** 1997 May;16(3):296-304 (53 ref.)

Sustained cough in methotrexate therapy for rheumatoid arthritis. Schnabel A, et al. **Clin Rheumatol** 1996 May; 15(3):277-82

The effect of ranitidine on NSAID related dyspeptic symptoms with and without peptic ulcer disease of patients with rheumatoid arthritis and osteoarthritis. Van Groenendael JH, et al. **Clin Rheumatol** 1996 Sep; 15(5):450-6

Use of colony-stimulating factors in the treatment of neutropenia associated with collagen vascular disease. Starkebaum G. **Curr Opin Hematol** 1997 May;4(3):196-9 (46 ref.)

Differential therapy in early and late stages of rheumatoid arthritis. Breedveld FC, et al. **Curr Opin Rheumatol** 1996 May;8(3):226-9 (33 ref.)

Disease-modifying antirheumatic drugs. Conaghan PG, et al. **Curr Opin Rheumatol** 1997 May;9(3):183-90 (65 ref.)

Meloxicam. Noble S, et al. **Drugs** 1996 Mar;51(3):424-30; discussion 431-32 (43 ref.)

Use of methotrexate in older patients. A risk-benefit assessment. Tett SE, et al. **Drugs Aging** 1996 Dec; 9(6):458-71

Cell adhesion molecules in rheumatoid arthritis. Veale DJ, et al. **Drugs Aging** 1996 Aug;9(2):87-92 (36 ref.)

Leflunomide, a novel immunomodulating drug, inhibits homotypic adhesion of peripheral blood and synovial fluid mononuclear cells in rheumatoid arthritis. Dimitrijevic M, et al. **Inflamm Res** 1996 Nov;45(11):550-6

Induction of Fas-dependent apoptosis in synovial infiltrating cells in rheumatoid arthritis. Hasunuma T, et al. **Int Immunol** 1996 Oct;8(10):1595-602

Benefit of simultaneous rhG-CSF and methylprednisolone 'pulse' therapy for methotrexate-induced bone marrow failure in rheumatoid arthritis. Kondo H, et al. **Int J Hematol** 1997 Feb;65(2):159-63

Suppression of arthritis by the inhibitors of dipeptidyl peptidase IV. Tanaka S, et al. **Int J Immunopharmacol** 1997 Jan;19(1):15-24

In vitro effect of gold sodium thiomalate and methotrexate on tumor necrosis factor production in normal healthy individuals and patients with rheumatoid arthritis. Yadav R, et al. **Int J Immunopharmacol** 1997 Feb;19(2):111-4

An unusual cause for collapse in a patient with arthritis. Heath KJ, et al. **Intensive Care Med** 1996 Oct;22(10):1096-7

Rheumatoid arthritis: changing concepts of treatment [editorial] O'Connell PG. **Ir Med J** 1996 Nov-Dec; 89(6):206

Assessing the relative sensitivity to change of rheumatoid arthritis activity measures: is the type of treatment an important third variable? Ward MM. **J Clin Epidemiol** 1996 Oct;49(10):1161-9

Clonality of Epstein-Barr virus in lymphoproliferative disorders in patients treated with immunosuppressive therapy for rheumatoid arthritis [letter; comment] van de Rijn M, et al. **J Clin Oncol** 1996 Nov;14(11):3050-1. Comment on: J Clin Oncol 1996 Jun;14(6):1943-9.

Cyclosporine and nonsteroidal antiinflammatory drugs: exploring potential drug interactions and their implications for the treatment of rheumatoid arthritis. Kovarik JM, et al. **J Clin Pharmacol** 1997 Apr;37(4):336-43

Reevaluation of some double-blind, randomized studies of dexibuprofen (Seractil): a state-of-the-art overview. Studies in patients with lumbar vertebral column syndrome, rheumatoid arthritis, distortion of the ankle joint, gonarthrosis, ankylosing spondylitis, and activated coxarthrosis. Rahlfs VW, et al. **J Clin Pharmacol** 1996 Dec; 36(12 Suppl):33S-40S

An antagonist of monocyte chemoattractant protein 1 (MCP-1) inhibits arthritis in the MRL-lpr mouse model. Gong JH, et al. **J Exp Med** 1997 Jul 7;186(1):131-7

Intravenous cyclophosphamide combined with

methylprednisolone in the treatment of severe refractory rheumatoid arthritis: the effect on lymphocytes. Lacki JK, et al. **J Investig Allergol Clin Immunol** 1996 Jul–Aug; 6(4):232–6

DNA hypomethylation in inflammatory arthritis: reversal with methotrexate. Kim YI, et al. **J Lab Clin Med** 1996 Aug;128(2):165–72

Analogues of methotrexate in rheumatoid arthritis. 1. Effects of 10–deazaaminopterin analogues on type II collagen–induced arthritis in mice. DeGraw JI, et al. **J Med Chem** 1997 Jan 31;40(3):370–6

Analogues of methotrexate in rheumatoid arthritis. 2. Effects of 5–deazaaminopterin, 5,10–dideazaaminopterin, and analogues on type II collagen–induced arthritis in mice. Piper JR, et al. **J Med Chem** 1997 Jan 31;40(3):377–84

Treatment of rheumatoid joint inflammation with intrasynovial triamcinolone [letter] Alarcón GS. **J Rheumatol** 1997 Sep;24(9):1849–50

Prospectively measured red cell folate levels in methotrexate treated patients with rheumatoid arthritis: relation to withdrawal and side effects. Andersen LS, et al. **J Rheumatol** 1997 May;24(5):830–7

Back to the future: the pyramids of rheumatoid arthritis [editorial] [see comments] Bensen WG, et al. **J Rheumatol** 1997 Jun;24(6):1023–7. Comment in: J Rheumatol 1997 Jun;24(6):1028–30.

Effects on fibrogenesis markers of rheumatoid arthritis therapy with methotrexate. Biasi D, et al. **J Rheumatol** 1996 Mar;23(3):453–4

An update on the Bath Ankylosing Spondylitis Disease Activity and Functional Indices (BASDAI, BASFI): excellent Cronbach's alpha scores. Biasi D, et al. **J Rheumatol** 1996 Feb;23(2):407–8

Radiographic results from the Minocycline in Rheumatoid Arthritis (MIRA) Trial. Bluhm GB, et al. **J Rheumatol** 1997 Jul;24(7):1295–302

Effects of low dose methotrexate on the bone mineral density of patients with rheumatoid arthritis. Buckley LM, et al. **J Rheumatol** 1997 Aug;24(8):1489–94

Effects of bisphosphonates on interleukin 1, tumor necrosis factor alpha, and beta 2 microglobulin in rheumatoid arthritis [letter] Cantatore FP, et al. **J Rheumatol** 1996 Jun; 23(6):1117–8

Tempora! association between the use of methotrexate and development of leukemia in 2 patients with rheumatoid arthritis. Dubin Kerr L, et al. **J Rheumatol** 1995 Dec; 22(12):2356–8

Patients with rheumatoid arthritis benefit from early 2nd line therapy: 5 year followup of a prospective double blind placebo controlled study. Egsmose C, et al. **J Rheumatol** 1995 Dec;22(12):2208–13

Increase of bone mineral density and anabolic variables in patients with rheumatoid arthritis resistant to methotrexate after cyclosporin A therapy. Ferraccioli G, et al. **J Rheumatol** 1996 Sep;23(9):1539–42

Persistence of CD4+ T cells in the arthritic joint after CAMPATH–1H treatment [letter] Finnegan A, et al. **J Rheumatol** 1997 Jul;24(7):1448–9

Cutaneous pseudolymphoma occurring during methotrexate therapy for rheumatoid arthritis [letter] Flipo RM, et al. **J Rheumatol** 1997 Apr;24(4):809–10

The benefit/risk ratio of low dose cyclosporin A in rheumatoid arthritis. Flipo RM, et al. **J Rheumatol** 1996 Feb;23(2):404–5

Response to therapy in rheumatoid arthritis is influenced by immediately prior therapy. Fries JF, et al. **J Rheumatol** 1997 May;24(5):838–44

Results of "satisfaction with disease control" survey [letter] Furst DE, et al. **J Rheumatol** 1996 Sep;23(9):1672–3

Variations and trends in the prescription of initial second line therapy for patients with rheumatoid arthritis. Galindo–Rodriguez G, et al. **J Rheumatol** 1997 Apr; 24(4):633–8

Longterm effect of methotrexate in Felty's syndrome: a 12 year followup [letter] Gerster JC. **J Rheumatol** 1996 Jan; 23(1):200

Malignancy in patients with rheumatoid arthritis treated with methotrexate [letter; comment] Grardel B, et al. **J Rheumatol** 1997 Apr;24(4):805–6; discussion 806–7. Comment on: J Rheumatol 1996 Jun;23(6):1095–7.

Listeria monocytogenes infection in a patient treated with methotrexate for rheumatoid arthritis. Hayem G, et al. **J Rheumatol** 1996 Jan;23(1):198–9

Photochemotherapy for refractory rheumatoid arthritis. Hilliquin P, et al. **J Rheumatol** 1996 Feb;23(2):406–7

Lack of pharmacokinetic interaction of meloxicam with methotrexate in patients with rheumatoid arthritis. Hübner G, et al. **J Rheumatol** 1997 May;24(5):845–51

Sulfasalazine therapy for juvenile rheumatoid arthritis. Imundo LF, et al. **J Rheumatol** 1996 Feb;23(2):360–6

Bucillamine induced pulmonary injury occurs with immunoglobulin decrease. Inokuma S, et al. **J Rheumatol** 1996 Jul;23(7):1282–5

Pancytopenia related eosinophilia in rheumatoid arthritis. Jaffe IA. **J Rheumatol** 1996 Feb;23(2):406

Association of methotrexate, rheumatoid arthritis, and melanoma in 2 patients [letter] Jeannou J, et al. **J Rheumatol** 1997 Jul;24(7):1444–5

The frequency of cutaneous vasculitis is not increased in patients with rheumatoid arthritis treated with methotrexate. Kaye O, et al. **J Rheumatol** 1996 Feb; 23(2):253–7

Diclofenac combined with cyclosporine in treatment refractory rheumatoid arthritis: longitudinal safety assessment and evidence of a pharmacokinetic/dynamic interaction. Kovarik JM, et al. **J Rheumatol** 1996 Dec; 23(12):2033–8

Significant changes in serum AST across hepatic histological biopsy grades: prospective analysis of 3 cohorts receiving methotrexate therapy for rheumatoid arthritis [see comments] Kremer JM, et al. **J Rheumatol** 1996 Mar; 23(3):459–61. Comment in: J Rheumatol 1996 Mar;23(3):413–5.

Longterm low dose cyclosporine in patients with rheumatoid arthritis: renal function loss without structural nephropathy [see comments] Landewé RB, et al. **J Rheumatol** 1996 Jan; 23(1):61–4. Comment in: J Rheumatol 1996 Jan;23(1):4.

Magnetic resonance imaging of the wrist in defining remission of rheumatoid arthritis. Lee J, et al. **J Rheumatol** 1997 Jul; 24(7):1303–8

Efficacy and safety of meloxicam in patients with rheumatoid arthritis. Lemmel EM, et al. **J Rheumatol** 1997 Feb; 24(2):282–90

Monitoring for methotrexate hepatotoxicity in patients with rheumatoid arthritis: another hepatologist's perspective [editorial] Lewis JH. **J Rheumatol** 1997 Aug;24(8):1459–60

Outcome of specific COX–2 inhibition in rheumatoid arthritis. Lipsky PE, et al. **J Rheumatol** 1997 Jul;24 Suppl 49:9–14 (21 ref.)

Herpes zoster encephalomyelitis associated with low dose methotrexate for rheumatoid arthritis. Lyon CC, et al. **J Rheumatol** 1997 Mar;24(3):589–91

Sulfasalazine has a better efficacy/toxicity profile than auranofin––evidence from a 5 year prospective, randomized trial. McEntegart A, et al. **J Rheumatol** 1996 Nov; 23(11):1887–90

Cyclophosphamide pulse in combination therapy for refractory rheumatoid arthritis [letter] Maeyaert B, et al. **J Rheumatol** 1996 Jan;23(1):197–8

Multidrug resistance in rheumatoid arthritis [letter] Maillefert JF, et al. **J Rheumatol** 1996 Dec;23(12):2182

Oral administration of an easily prepared solution of injectable methotrexate diluted in water: A comparison of serum concentrations vs methotrexate tablets and clinical utility. Marshall PS, et al. **J Rheumatol** 1996 Mar; 23(3):455–8

Tenidap reduces the level of interleukin 1 receptors and collagenase expression in human arthritic synovial fibroblasts. Martel–Pelletier J, et al. **J Rheumatol** 1996 Jan; 23(1):24–31

Interleukin–2 receptor levels in sera of patients with rheumatoid arthritis treated with sulfasalazine, parenteral gold, or placebo. Merkel PA, et al. **J Rheumatol** 1996 Nov; 23(11):1856–61

Serum phospholipase A2 activity in patients with rheumatoid arthritis before and after treatment with methotrexate, auranofin, or combination of the two. Michaels RM, et al. **J Rheumatol** 1996 Feb;23(2):226–9

Recombinant soluble tumor necrosis factor receptor (p80) fusion protein: toxicity and dose finding trial in refractory rheumatoid arthritis. Moreland LW, et al. **J Rheumatol** 1996 Nov;23(11):1849–55

Combination drug therapy in rheumatoid arthritis [letter] [see comments] Morris AJ. **J Rheumatol** 1996 Jun;23(6):1113. Comment in: J Rheumatol 1997 Apr;24(4):803–4.

Treatment of rheumatoid joint inflammation with intrasynovial triamcinolone [letter; comment] Neustadt DH. **J Rheumatol** 1996 Sep;23(9):1666–7. Comment on: J Rheumatol 1995 Sep;22(9):1631–5.

The therapeutic pyramid: a work in progress [editorial; comment] O'Dell JR. **J Rheumatol** 1997 Jun;24(6):1028–30 . Comment on: J Rheumatol 1997 Jun;24(6):1023–7.

Changes in synovial membrane and joint effusion volumes after intraarticular methylprednisolone. Quantitative assessment of inflammatory and destructive changes in arthritis by MRI. Ostergaard M, et al. **J Rheumatol** 1996 Jul;23(7):1151–61

In vitro effects of 2 antirheumatic drugs on the synthesis and expression of proinflammatory cytokines in synovial membranes from patients with rheumatoid arthritis. Ounissi–Benkalha H, et al. **J Rheumatol** 1996 Jan; 23(1):16–23

Chronic cyclosporine nephrotoxicity in rheumatoid arthritis [editorial; comment] Pei Y. **J Rheumatol** 1996 Jan;23(1):4–5 . Comment on: J Rheumatol 1996 Jan;23(1):61–4.

Validity, reliability, and sensitivity to change of a French version of the arthritis impact measurement scales 2 (AIMS2) in patients with rheumatoid arthritis treated with methotrexate. Pouchot J, et al. **J Rheumatol** 1996 Jan; 23(1):52–60

Corticosteroid injection in rheumatoid arthritis does not increase rate of total joint arthroplasty. Roberts WN, et al. **J Rheumatol** 1996 Jun;23(6):1001–4

Combination drug therapy in rheumatoid arthritis [letter; comment] Russell AS, et al. **J Rheumatol** 1997 Apr; 24(4):803–4. Comment on: J Rheumatol 1996 Jun;23(6):1113.

Subcutaneous administration of CAMPATH–1H: clinical and biological outcomes. Schnitzer TJ, et al. **J Rheumatol** 1997 Jun;24(6):1031–6

Interleukin 1 (IL–1) receptor antagonist, soluble tumor necrosis factor receptors, IL–1 beta, and IL–8––markers of remission in rheumatoid arthritis during treatment with methotrexate. Seitz M, et al. **J Rheumatol** 1996 Sep; 23(9):1512–6

Zinc, again [editorial; comment] Simkin PA. **J Rheumatol** 1997 Apr;24(4):626–8. Comment on: J Rheumatol 1997 Apr;24(4):643–6.

C1 inhibitor deficiency in a patient with rheumatoid arthritis––increased risk of adverse effects of penicillamine? Sturfelt G, et al. **J Rheumatol** 1996 Feb;23(2):378–81

Malignancy in patients with rheumatoid arthritis treated with methotrexate [letter; comment] Sukenik S, et al. **J Rheumatol** 1997 Apr;24(4):806; discussion 806–7. Comment on: J Rheumatol 1996 Jun;23(6):1095–7.

Excess mortality in rheumatoid arthritis––is it the disease or the drugs? [editorial; comment] Symmons D. **J Rheumatol** 1995 Dec;22(12):2200–2. Comment on: J Rheumatol 1995 Dec;22(12):2214–7.

Interaction between cyclosporin A and nonsteroidal antiinflammatory drugs. Tugwell P, et al. **J Rheumatol** 1997 Jun;24(6):1122–5

Non–Hodgkin's lymphoma in patients with rheumatoid arthritis treated with low dose methotrexate [see comments] Usman AR, et al. **J Rheumatol** 1996 Jun;23(6):1095–7. Comment in: J Rheumatol 1997 Apr;24(4):805–6; discussion 806–7. Comment in: J Rheumatol 1997 Apr;24(4):806; discussion 806–7.

Limited bone loss due to corticosteroids; a systematic review of prospective studies in rheumatoid arthritis and other diseases. Verhoeven AC, et al. **J Rheumatol** 1997 Aug; 24(8):1495–503

Effects of triazolam on sleep, daytime sleepiness, and morning stiffness in patients with rheumatoid arthritis. Walsh JK, et al. **J Rheumatol** 1996 Feb;23(2):245–52

Rheumatoid Arthritis: The Status and Future of Combination Therapy. Proceedings of a meeting. Chatham, Massachusetts, USA, July 13–15, 1995. **J Rheumatol Suppl** 1996 Mar;44:1–110

Cost effectiveness analysis of drug therapies for rheumatoid arthritis. Criswell LA, et al. **J Rheumatol Suppl** 1996 Mar; 44:52–5

Chloroquine combined with cyclosporine in rheumatoid arthritis: more than the addition of 2 drugs alone. Dijkmans BA, et al. **J Rheumatol Suppl** 1996 Mar;44:61–3 (14 ref.)

Effectiveness and toxicity considerations in outcome directed therapy in rheumatoid arthritis. Fries JF. **J Rheumatol Suppl** 1996 Mar;44:102–6 (22 ref.)

Clinical pharmacology of combination DMARD therapy in rheumatoid arthritis. Furst DE. **J Rheumatol Suppl** 1996 Mar;44:86–90 (16 ref.)

The rationale for combination therapy of rheumatoid arthritis based on pathophysiology. Harris ED Jr. **J Rheumatol Suppl** 1996 Mar;44:2–4

Efficacy assessment in trials of combination therapy for rheumatoid arthritis. Johnson K. **J Rheumatol Suppl** 1996 Mar;44:107–9

Historical overview of the treatment of rheumatoid arthritis with an emphasis on methotrexate. Kremer JM. **J Rheumatol Suppl** 1996 Mar;44:34–7

Comparison of the efficacy and safety of etodolac and piroxicam in patients with rheumatoid arthritis. Etodolac Study 326 Rheumatoid Arthritis Investigators Group. Lightfoot R. **J Rheumatol Suppl** 1997 Feb;47:10–6

Double blind evaluation of the long–term effects of etodolac versus ibuprofen in patients with rheumatoid arthritis. Neustadt DH. **J Rheumatol Suppl** 1997 Feb;47:17–22

Efficacy of triple DMARD therapy in patients with RA with suboptimal response to methotrexate. O'Dell JR, et al. **J Rheumatol Suppl** 1996 Mar;44:72–4

Combination therapy in rheumatoid arthritis: the animal model perspective. Oliver SJ, et al. **J Rheumatol Suppl** 1996 Mar;44:56–60 (27 ref.)

Combination sulfasalazine and methotrexate in the management of rheumatoid arthritis. Shiroky JB. **J Rheumatol Suppl** 1996 Mar;44:69–71 (31 ref.)

Low dose etodolac in rheumatoid arthritis: a review of early studies. Spencer–Green G. **J Rheumatol Suppl** 1997 Feb; 47:3–9; discussion 48–50

Combination therapy in rheumatoid arthritis: metaanalysis. Tugwell P. **J Rheumatol Suppl** 1996 Mar;44:43–6

Combination treatment of rheumatoid arthritis using azathioprine and methotrexate: a 48 week controlled clinical trial. Willkens RF, et al. **J Rheumatol Suppl** 1996 Mar;44:64–8

Combination therapy with cyclosporine in rheumatoid arthritis. Yocum DE. **J Rheumatol Suppl** 1996 Mar;44:75–7 (21 ref.)

Photodynamic laser therapy for rheumatoid arthritis. Cell culture studies and animal experiments. Hendrich C, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):58–63

Adverse reactions to parenteral gold salts [letter] Tilelli JA, et al. **Lancet** 1997 Mar 22;349(9055):853

Role of antimalarials in rheumatoid arthritis––the British experience. Davis MJ, et al. **Lupus** 1996 Jun;5 Suppl 1:S37–40 (22 ref.)

The use of antimalarials in combination with other disease modifying agents in RA––the British experience. Duncan MR, et al. **Lupus** 1996 Jun;5 Suppl 1:S50–8 (53 ref.)

The use of antimalarials in combination with other disease modifying agents in rheumatoid arthritis––the French experience. Kahan A, et al. **Lupus** 1996 Jun;5 Suppl 1:S45–9 (27 ref.)

The role of anti–malarials in rheumatoid arthritis––the American experience. Khraishi MM, et al. **Lupus** 1996 Jun; 5 Suppl 1:S41–4 (37 ref.)

Acute phase response in rheumatoid arthritis patients treated with immunosuppressive drugs. Łącki JK, et al. **Mater Med Pol** 1995 Apr-Jun;27(2):47-51

Treatment of rheumatoid arthritis. Jain R, et al. **Med Clin North Am** 1997 Jan;81(1):57-84 (174 ref.)

Rheumatoid arthritis. Ahern MJ, et al. **Med J Aust** 1997 Feb 3;166(3):156-61 (14 ref.)

TNF receptor fusion protein in rheumatoid arthritis [news] O'Brien C. **Mol Med Today** 1996 Jul;2(7):269

Anticytokine therapy in rheumatoid arthritis [editorial; comment] Firestein GS, et al. **N Engl J Med** 1997 Jul 17; 337(3):195-7. Comment on: N Engl J Med 1997 Jul 17;337(3):141-7.

Treatment of rheumatoid arthritis with a recombinant human tumor necrosis factor receptor (p75)-Fc fusion protein [see comments] Moreland LW, et al. **N Engl J Med** 1997 Jul 17;337(3):141-7. Comment in: N Engl J Med 1997 Jul 17;337(3):195-7.

Liver cirrhosis due to methotrexate in a patient with rheumatoid arthritis. ter Borg EJ, et al. **Neth J Med** 1996 Dec;49(6):244-6

Osteonecrosis of the femoral head in patients with inflammatory arthritis or asthma receiving corticosteroid therapy. Colwell CW Jr, et al. **Orthopedics** 1996 Nov; 19(11):941-6

Photodynamic treatment of rheumatoid and inflammatory arthritis. Trauner KB, et al. **Photochem Photobiol** 1996 Nov;64(5):740-50 (124 ref.)

How do French rheumatologists treat early rheumatoid arthritis? de Asit N, et al. **Rev Rhum Engl Ed** 1996 Mar; 63(3):188-95

Pancytopenia in rheumatoid arthritis patients receiving methotrexate [letter; comment] Laroche F, et al. **Rev Rhum Engl Ed** 1996 May;63(5):381-2. Comment on: Rev Rhum Engl Ed 1995 Jul-Sep;62(7-8):477-86.

Autoimmune hypoglycemia occurring in tiopronin-treated rheumatoid arthritis [letter] Le Dantec P, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):300-1

Pneumocystis carinii pneumonia in rheumatoid arthritis patients treated with methotrexate. A report of two cases. Roux N, et al. **Rev Rhum Engl Ed** 1996 Jun;63(6):453-6 (30 ref.)

Relationship of soluble interleukin-2-receptor and interleukin-6 with class-specific rheumatoid factors during low-dose methotrexate treatment in rheumatoid arthritis. Spadaro A, et al. **Rev Rhum Engl Ed** 1997 Feb;64(2):89-94

Cyclosporine, FK-506, rapamycin, and other immunomodulators. Yocum DE. **Rheum Dis Clin North Am** 1996 Feb;22(1):133-54 (161 ref.)

Toxicity profile of dual methotrexate combinations with gold, hydroxychloroquine, sulphasalazine and minocycline in rheumatoid arthritis patients. Elkayam O, et al. **Rheumatol Int** 1997;17(2):49-53

Type II collagen serology: a guide to clinical responsiveness to oral tolerance? Gimsa U, et al. **Rheumatol Int** 1997; 16(6):237-40

NMR monitoring of rheumatoid arthritis patients receiving anti-TNF-alpha monoclonal antibody therapy. Kalden-Nemeth D, et al. **Rheumatol Int** 1997;16(6):249-55

A comparison between bucillamine and D-penicillamine in the treatment of rheumatoid arthritis. Kim HA, et al. **Rheumatol Int** 1997;17(1):5-9

Clinical outcome after one year following samarium-153 particulate hydroxyapatite radiation synovectomy [see comments] Clunie G, et al. **Scand J Rheumatol** 1996; 25(6):360-6. Comment in: Scand J Rheumatol 1997;26(2):136-7.

Positron emission tomography with 11C-D-deprenyl in patients with rheumatoid arthritis. Evaluation of knee joint inflammation before and after intra-articular glucocorticoid treatment. Danfors T, et al. **Scand J Rheumatol** 1997; 26(1):43-8

Randomized, placebo controlled trial of withdrawal of slow-acting antirheumatic drugs and of observer bias in rheumatoid arthritis. Gøtzsche PC, et al. **Scand J Rheumatol** 1996;25(4):194-9

Methotrexate update [editorial] Kremer JM. **Scand J Rheumatol** 1996;25(6):341-4 (31 ref.)

Tenidap in patients with rheumatoid arthritis. A 4-week, placebo-controlled study. Prupas HM, et al. **Scand J Rheumatol** 1996;25(6):345-51

Combination therapy of cyclosporine A with methotrexate or hydroxychloroquine in refractory rheumatoid arthritis. Salaffi F, et al. **Scand J Rheumatol** 1996;25(1):16-23

Low dose cyclosporine in early rheumatoid arthritis: effective and safe after two years of therapy when compared with chloroquine. van den Borne BE, et al. **Scand J Rheumatol** 1996;25(5):307-16

Attacking arthritis. New treatments seek to rebalance the immune system. Nemecek S. **Sci Am** 1997 Jun;276(6):41

Effects of antirheumatic agents on cytokines. Barrera P, et al. **Semin Arthritis Rheum** 1996 Feb;25(4):234-53 (187 ref.)

Dapsone in rheumatoid arthritis. Chang DJ, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):390-403 (78 ref.)

Lymphoma in patients with rheumatoid arthritis: association with the disease state or methotrexate treatment [see comments] Georgescu L, et al. **Semin Arthritis Rheum** 1997 Jun;26(6):794-804 (98 ref.). Comment in: Semin Arthritis Rheum 1997 Jun;26(6):785-7.

The gastroenterologist's caseload: contribution of the rheumatologist. Hawkey CJ. **Semin Arthritis Rheum** 1997 Jun;26(6 Suppl 1):11-5 (13 ref.)

A potential new treatment for rheumatoid arthritis: thunder god vine. Lipsky PE, et al. **Semin Arthritis Rheum** 1997 Apr;26(5):713-23 (81 ref.)

Leflunomide, an immunorestoring drug for the therapy of autoimmune disorders, especially rheumatoid arthritis. Bartlett RR, et al. **Transplant Proc** 1996 Dec;28(6):3074-8 (28 ref.)

[Clinical and experimental study on sustained release tablet of Tripterygium wilfordii in treating rheumatoid arthritis] Li RL, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Jan; 16(1):10-3 (Eng. Abstr.) **(Chi)**

[Clinical and experimental study of RA mixture in treatment of rheumatoid arthritis] Xu DS, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Jan; 16(1):14-7, 23 (Eng. Abstr.) **(Chi)**

[Rheumatoid arthritis. Drug therapy (editorial)] Lorenzen I. **Ugeskr Laeger** 1997 Jul 21;159(30):4618-20 **(Dan)**

[A new approach to rheumatoid arthritis] Breedveld FC. **Ned Tijdschr Geneeskd** 1997 Apr 12;141(15):717-9 (17 ref.) (Eng. Abstr.) **(Dut)**

[Favorable results of early 2nd-stage medication in rheumatoid arthritis] van Jaarsveld CH, et al. **Ned Tijdschr Geneeskd** 1997 Apr 12;141(15):732-6 (Eng. Abstr.) **(Dut)**

[Medical treatment in rheumatoid arthritis and mortality (editorial)] Isomäki H, et al. **Duodecim** 1995;111(13):1185-6 **(Fin)**

[Antibiotic treatment in rheumatoid arthritis? (editorial)] Leirisalo-Repo M. **Duodecim** 1995;111(13):1181-2 **(Fin)**

[Criteria of response to treatment of rheumatoid arthritis] Dougados M. **Presse Med** 1996 Oct 5;25(29):1336-40 (20 ref.) (Eng. Abstr.) **(Fre)**

[Pancytopenia in rheumatoid arthritis treated with methotrexate] Laroche F, et al. **Presse Med** 1996 Sep 7; 25(25):1144-6 (Eng. Abstr.) **(Fre)**

[Pharmacokinetics of methotrexate in rheumatoid arthritis: therapeutic implications] Bannwarth B, et al. **Therapie** 1997 Mar-Apr;52(2):129-32 (19 ref.) (Eng. Abstr.) **(Fre)**

[Treatment with low dose methotrexate in rheumatoid arthritis: risk factors for severe complications] Berthelot JM, et al. **Therapie** 1997 Mar-Apr;52(2):111-6 (40 ref.) (Eng. Abstr.) **(Fre)**

[Methotrexate and non-steroidal anti-inflammatory agent combination in rheumatoid arthritis] Bertin P, et al. **Therapie** 1997 Mar-Apr;52(2):133-7 (20 ref.) (Eng. Abstr.) **(Fre)**

[Low dose methotrexate therapy in chronic polyarthritis--an update] Leeb BF, et al. **Acta Med Austriaca** 1996; 23(4):114-9 (63 ref.) (Eng. Abstr.) **(Ger)**

[Ketoprofen--a first-class nonsteroidal antirheumatic agent] Rass H. **Dtsch Med Wochenschr** 1997 Feb 28;122(9 Suppl):1-8 **(Ger)**

[Rheumatoid arthritis. Begin early aggressive therapy (news)] **Fortschr Med** 1997 Feb 28;115(6):23 **(Ger)**

[Innovations from a middle class house (interview by Dr. rer. nat. Till Uwe Keil) Strathmann D. **Fortschr Med** 1996 Sep 30;114(27):63-4 **(Ger)**

[Innovative therapy with metalloprotease inhibitors] Krejci-Papa NC. **Hautarzt** 1997 Feb;48(2):81-3 **(Ger)**

[Immunosuppressive therapeutic modalities in chronic polyarthritis] Lorenz HM, et al. **Internist (Berl)** 1997 Jun; 38(6):532-40 (32 ref.) **(Ger)**

[Selective cyclooxygenase-2 (COX-2) inhibitor. Progress in rheumatoid therapy?] Reuss-Borst M. **Internist (Berl)** 1997 Mar;38(3):266-71 (35 ref.) **(Ger)**

[Chloroquine-induced bull's eye maculopathy without electrophysiologic changes] Cursiefen C, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):400-1 (Eng. Abstr.) **(Ger)**

[Rational intra-articular corticosteroid injection] Weber M. **Schweiz Med Wochenschr** 1997 May 31;127(22):945-53 (64 ref.) (Eng. Abstr.) **(Ger)**

[Gastroduodenal tolerance and clinical effectiveness of therapy with lonazolac-calcium in rheumatic diseases] Kullich W, et al. **Wien Med Wochenschr** 1996; 146(17):459-64 (Eng. Abstr.) **(Ger)**

[Ketoprofen--a first class nonsteroidal anti-arrhythmia agent] **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb;135(1 Suppl):1-8 **(Ger)**

[Mechanism of action of gold in treatment of rheumatoid arthritis] Burmester GR, et al. **Z Rheumatol** 1996 Sep-Oct; 55(5):299-306 (21 ref.) (Eng. Abstr.) **(Ger)**

[Gold antirheumatic drug: desired and adverse effects of Au(I) and Au(III) [corrected] on the immune system (published erratum appears in Z Rheumatol 1996 Nov-Dec;55(6):430)] Griem P, et al. **Z Rheumatol** 1996 Sep-Oct;55(5):348-58 (56 ref.) (Eng. Abstr.) **(Ger)**

[Radiologic healing phenomena in chronic polyarthritis treated with methotrexate or sodium aurothiomalate (published erratum appears in Z Rheumatol 1996 Sep-Oct;55(5):361)] Menninger H, et al. **Z Rheumatol** 1996 Jul-Aug;55(4):241-8 (Eng. Abstr.) **(Ger)**

[Alprostadil (PGE 1) and cyclosporin A in treatment of vasculitis in rheumatoid arthritis] Peichl P, et al. **Z Rheumatol** 1997 Mar-Apr;56(2):89-91 (Eng. Abstr.) **(Ger)**

[Does parenteral goid inhibit roentgen progression of chronic polyarthritis?] Rau R. **Z Rheumatol** 1996 Sep-Oct; 55(5):307-18 (34 ref.) (Eng. Abstr.) **(Ger)**

[The time for gold therapy has not yet expired (editorial)] Schattenkirchner M. **Z Rheumatol** 1996 Sep-Oct; 55(5):297-8 **(Ger)**

[Combination therapy with remission-inducing drugs in chronic polyarthritis: 1996 update] Wollin D, et al. **Z Rheumatol** 1997 May-Jun;56(3):114-26 (47 ref.) (Eng. Abstr.) **(Ger)**

[The use of low doses of sodium aurothiomalate in the treatment of rheumatoid arthritis. Current trends in basic therapy] Bianucci G, et al. **Clin Ter** 1996 Dec; 147(12):609-20 (Eng. Abstr.) **(Ita)**

[Treatment of rheumatoid arthritis: leave the pyramids to the Egyptians?] Rossi G. **Recenti Prog Med** 1997 Mar; 88(3):107-8 **(Ita)**

[Coronary artery bypass grafting using arterial grafts in a patient with rheumatoid arthritis requiring steroid therapy] Tsuji K, et al. **Kyobu Geka** 1997 Mar;50(3):218-21 (Eng. Abstr.) **(Jpn)**

[Process of articular destruction in chronic rheumatoid arthritis and its treatment with drugs] Abe T. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1583-9 (5 ref.) **(Jpn)**

[Adverse effects of low-dose methotrexate therapy in rheumatoid arthritis] Furuya T, et al. **Ryumachi** 1996 Oct; 36(5):746-52 (Eng. Abstr.) **(Jpn)**

[Today's strategy for treatment of rheumatoid arthritis] Kashiwazaki S, et al. **Ryumachi** 1996 Oct;36(5):791-802 (21 ref.) **(Jpn)**

[Prospective clinical study of the combination therapy of auranofin and methotrexate for rheumatoid arthritis--a multi-center study] Kashiwazaki S, et al. **Ryumachi** 1996 Jun;36(3):528-44 (Eng. Abstr.) **(Jpn)**

[Untoward effects of low dose methotrexate therapy in rheumatoid arthritis] Kawabe Y, et al. **Ryumachi** 1996 Jun; 36(3):514-21 (Eng. Abstr.) **(Jpn)**

[Pancytopenia and Pneumocystis carinii pneumonia associated with low dose methotrexate pulse therapy for rheumatoid arthritis--case report and review of literature] Kitsuwa S, et al. **Ryumachi** 1996 Jun;36(3):551-8 (43 ref.) (Eng. Abstr.) **(Jpn)**

[Toxicity of low-dose methotrexate in rheumatoid arthritis--clinical characteristics in patients with MTX-induced pancytopenia and interstitial pneumonitis] Ohosone Y, et al. **Ryumachi** 1997 Feb;37(1):16-23 (Eng. Abstr.) **(Jpn)**

[A new approach to assessing rheumatoid arthritis (RA) disease activity using the American College of Rheumatology core set of disease activity measures for RA trials--a multi-center study] Okano Y, et al. **Ryumachi** 1997 Jun;37(3):467-75 (Eng. Abstr.) **(Jpn)**

[The effect of immunosuppressive drugs on expression of surface antigens of lymphocytes in patients with rheumatoid arthritis] Łącki JK, et al. **Pol Arch Med Wewn** 1997 Feb;97(2):134-43 (Eng. Abstr.) **(Pol)**

[Prolonged gold therapy for nephrotic syndrome in a patient with undiagnosed polyarthritis] Leszczyński P, et al. **Pol Arch Med Wewn** 1996 Aug;96(2):153-6 (Eng. Abstr.) **(Pol)**

[Comparison of myocardial effects of various antirheumatic modalities in patients with rheumatoid arthritis (prospective clinico-echocardiographic study)] Nemchinov EN, et al. **Klin Med (Mosk)** 1997;75(8):36-40 (Eng. Abstr.) **(Rus)**

[The new nonsteroidal anti-inflammatory preparation meloxicam in the treatment of rheumatoid arthritis] Grishina EI. **Lik Sprava** 1997 Mar-Apr;(2):19-25 (27 ref.) **(Rus)**

[An evaluation of the results of the long-term treatment of rheumatoid arthritis patients with gold salts, aminoquinoline preparations and nonsteroidal anti-inflammatory preparations] Ivanova MM, et al. **Ter Arkh** 1997;69(5):27-32 **(Rus)**

[The treatment of secondary amyloidosis in rheumatoid arthritis] Lukina GV, et al. **Ter Arkh** 1996;68(5):18-21 (25 ref.) **(Rus)**

[The Tauredon treatment of rheumatoid arthritis patients: its efficacy and tolerance when used long term] Murav'ev IuV, et al. **Ter Arkh** 1996;68(5):16-8 **(Rus)**

[The intra-articular therapy with triamcinolone acetonide and betamethasone of rheumatoid arthritis patients: a double-blind study] Murav'ev IuV, et al. **Ter Arkh** 1997; 69(5):32-3 **(Rus)**

[The basic therapy of rheumatoid arthritis at an early stage (editorial)] Nasonova VA, et al. **Ter Arkh** 1996;68(5):5-8 (28 ref.) **(Rus)**

[Combined immunomodulating therapy in rheumatoid arthritis] Oliunin IuA, et al. **Ter Arkh** 1996;68(5):13-6 (Eng. Abstr.) **(Rus)**

[Comparative study of the occurrence of gastrointestinal side-effects of tenoxicam and other nonsteroidal antirheumatic agents in patients with rheumatoid arthritis] Vlak T, et al. **Reumatizam** 1996;43(1):1-9 (Eng. Abstr.) **(Scr)**

[Patients with rheumatoid arthritis: study of the correlation between density of glucocorticoid receptors in synovial cells and clinical response to steroidal treatment] Cuchacovich M, et al. **Rev Med Chil** 1996 Feb;124(2):160-9 (Eng. Abstr.) **(Spa)**

[New therapeutic methods against rheumatoid arthritis--1. Potent pharmaceuticals already at the debute of the disease] Bondeson J. **Lakartidningen** 1997 Jan 8;94(1-2):37-40 (16 ref.) **(Swe)**

[New therapeutic methods against rheumatoid arthritisp6. Antibodies against TNFalpha significant for the progress]

Bondeson J. **Lakartidningen** 1997 Jan 8;94(1-2):42-5 (30 ref.) (Eng. Abstr.) **(Swe)**

[Severe adverse effect of methotrexate in rheumatoid arthritis. Don't forget security routines in intercurrent disease!] Gülfe A, et al. **Lakartidningen** 1997 May 7; 94(19):1811-2 **(Swe)**

ECONOMICS

Resource utilization and cost of care for rheumatoid arthritis and osteoarthritis in a managed care setting: the importance of drug and surgery costs. Lanes SF, et al. **Arthritis Rheum** 1997 Aug;40(8):1475-81

Direct and indirect medical costs incurred by Canadian patients with rheumatoid arthritis: a 12 year study. Clarke AE, et al. **J Rheumatol** 1997 Jun;24(6):1051-60

Direct medical costs unique to people with arthritis. Gabriel SE, et al. **J Rheumatol** 1997 Apr;24(4):719-25

Indirect and nonmedical costs among people with rheumatoid arthritis and osteoarthritis compared with nonarthritic controls [see comments] Gabriel SE, et al. **J Rheumatol** 1997 Jan;24(1):43-8. Comment in: J Rheumatol 1997 Jan;24(1):3-5.

Financial and career losses due to rheumatoid arthritis: a pilot study. Kochevar RJ, et al. **J Rheumatol** 1997 Aug; 24(8):1527-30

In- and out-patient rehabilitation in rheumatoid arthritis. A controlled, open, longitudinal, cost-effectiveness study. Nordström DC, et al. **Scand J Rheumatol** 1996;25(4):200-6

Socioeconomic evaluation of rheumatoid arthritis and osteoarthritis: a literature review. Rothfuss J, et al. **Semin Arthritis Rheum** 1997 Apr;26(5):771-9 (79 ref.)

ENZYMOLOGY

Purine enzyme activities in recent onset rheumatoid arthritis: are there differences between patients and healthy controls? Stolk JN, et al. **Ann Rheum Dis** 1996 Oct;55(10):733-8

Expression of matrix metalloproteinase 9 (96-kd gelatinase B) in human rheumatoid arthritis. Ahrens D, et al. **Arthritis Rheum** 1996 Sep;39(9):1576-87

Matrix metalloproteinase 13 (collagenase 3) in human rheumatoid synovium. Lindy O, et al. **Arthritis Rheum** 1997 Aug;40(8):1391-9

Interleukin-4 inhibits the gene expression and biosyntheis of cytosolic phospholipase A2 in lipopolysaccharide stimulated U937 macrophage cell line and freshly prepared adherent rheumatoid synovial cells. Kuroda A, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):40-3

Superantigen-induced stromelysin production from rheumatoid synovial cells. Migita K, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):222-6

Tyrosine phosphorylation in neutrophils from synovial fluid of patients with rheumatoid arthritis. Lloyds D, et al. **Br J Rheumatol** 1996 Sep;35(9):846-52

Elastase activity in cartilage extracts and synovial fluids from subjects with osteoarthritis or rheumatoid arthritis: the prominent role of metalloproteinases. Chevalier X, et al. **Clin Exp Rheumatol** 1996 May-Jun;14(3):235-41

Elastase from polymorphonuclear leukocyte in articular cartilage and synovial fluids of patients with rheumatoid arthritis. Momohara S, et al. **Clin Rheumatol** 1997 Mar; 16(2):133-40

Human gelatinase B, a marker enzyme in rheumatoid arthritis, is inhibited by D-penicillamine: anti-rheumatic activity by protease inhibition. Norga K, et al. **Clin Rheumatol** 1996 Jan;15(1):31-4

Collagenase (MMP-1) and TIMP-1 in destructive corneal disease associated with rheumatoid arthritis. Riley GP, et al. **Eye** 1995;9 (Pt 6):703-18

Superoxide dismutase activity in arthropathy: its role and measurement in the joints. Sumii H, et al. **Hiroshima J Med Sci** 1996 Jun;45(2):51-5

Serum copper/zinc superoxide dismutase levels in patients with rheumatoid arthritis. Mazzetti I, et al. **Int J Clin Lab Res** 1996;26(4):245-9

Increased expression of blood mononuclear cell nitric oxide synthase type 2 in rheumatoid arthritis patients. St Clair EW, et al. **J Exp Med** 1996 Sep 1;184(3):1173-8

Lipoprotein lipase in relation to inflammatory activity in rheumatoid arthritis. Wållberg-Jonsson S, et al. **J Intern Med** 1996 Dec;240(6):373-80

Bone alkaline phosphatase in rheumatoid arthritis: a longitudinal study. Beyeler C, et al. **J Rheumatol** 1996 Feb; 23(2):241-4

Low serum creatine kinase activity in rheumatoid arthritis [letter; comment] Delanghe JR, et al. **J Rheumatol** 1997 Jan;24(1):231-2. Comment on: J Rheumatol 1996 Apr;23(4):603-8.

Secretory phospholipase A2 as an index of disease activity in rheumatoid arthritis. Prospective double blind study of 212 patients. Lin MK, et al. **J Rheumatol** 1996 Jul; 23(7):1162-6

Mobilization of fibrinolytic enzymes in synovial fluid and plasma of rheumatoid arthritis and spondyloarthropathy and their relation to radiological destruction. Wållberg-Jonsson S, et al. **J Rheumatol** 1996 Oct; 23(10):1704-9

Collagenase-3 (MMP-13) is expressed during human fetal ossification and re-expressed in postnatal bone remodeling and in rheumatoid arthritis. Ståhle-Bäckdahl M, et al. **Lab Invest** 1997 May;76(5):717-28

[CuZn-SOD determination of sera in patients with rheumatic diseases] Yu M, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Feb; 18(1):66-9 (Eng. Abstr.) **(Chi)**

[Levels of matrix metalloproteinase-3 and urokinase-type plasminogen activator in knee synovial fluids from patients with rheumatoid arthritis and osteoarthritis] Gotoh H, et al. **Ryumachi** 1997 Feb;37(1):3-8 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Increase in age at onset of rheumatoid arthritis in Japan over a 30 year period. Imanaka T, et al. **Ann Rheum Dis** 1997 May;56(5):313-6

Incidence of rheumatoid arthritis in Finland during 1980-1990. Kaipiainen-Seppänen O, et al. **Ann Rheum Dis** 1996 Sep;55(9):608-11

A comparison of the clinical features of hospital out-patients with rheumatoid disease and osteoarthritis in Pakistan and England [see comments] Hameed K, et al. **Br J Rheumatol** 1996 Oct;35(10):994-9. Comment in: Br J Rheumatol 1997 Jul;36(7):820.

A comparison of the prevalence of rheumatoid arthritis and other rheumatic diseases amongst Pakistanis living in England and Pakistan. Hameed K, et al. **Br J Rheumatol** 1997 Jul;36(7):781-5

The Nottingham Health Profile as a measure of disease activity and outcome in rheumatoid arthritis. Houssien DA, et al. **Br J Rheumatol** 1997 Jan;36(1):69-73

The impact of HLA-DRB1*0405 on disease severity in Korean patients with seropositive rheumatoid arthritis. Kim HY, et al. **Br J Rheumatol** 1997 Apr;36(4):440-3

Is rheumatoid arthritis becoming a milder disease? Or are we starting second-line therapy in patients with milder disease? Porter DR, et al. **Br J Rheumatol** 1996 Dec; 35(12):1305-8

Remission in a prospective study of patients with rheumatoid arthritis. American Rheumatism Association preliminary remission criteria in relation to the disease activity score [see comments] Prevoo ML, et al. **Br J Rheumatol** 1996 Nov;35(11):1101-5. Comment in: Br J Rheumatol 1996 Nov;35(11):1039-40.

HLA-DRB1* genotypes in Greek rheumatoid arthritis patients: association with disease characteristics, sex and age at onset [letter] Stavropoulos C, et al. **Br J Rheumatol** 1997 Jan;36(1):141-2

Malaria and rheumatoid arthritis in West Africa [letter] Adebajo AO, et al. **Clin Exp Rheumatol** 1996 May-Jun; 14(3):346

Shift in the incidence of rheumatoid arthritis toward elderly patients in Finland during 1975-1990. Kaipiainen-Seppänen O, et al. **Clin Exp Rheumatol** 1996 Sep-Oct;14(5):537-42

Standardising joint assessment in rheumatoid arthritis. Scott DL, et al. **Clin Rheumatol** 1996 Nov;15(6):579-82

Maternal exposure to paternal HLA does not explain the postpartum increase in rheumatoid arthritis. Brennan P, et al. **Genet Epidemiol** 1996;13(4):411-8

Do new cases of rheumatoid arthritis cluster in time or in space? Silman A, et al. **Int J Epidemiol** 1997 Jun; 26(3):628-34

Assessing the relative sensitivity to change of rheumatoid arthritis activity measures: is the type of treatment an important third variable? Ward MM. **J Clin Epidemiol** 1996 Oct;49(10):1161-9

Incidence of rheumatoid arthritis is not related to indicators of socioeconomic deprivation. Bankhead C, et al. **J Rheumatol** 1996 Dec;23(12):2039-42

An update on the Bath Ankylosing Spondylitis Disease Activity and Functional Indices (BASDAI, BASFI): excellent Cronbach's alpha scores. Biasi D, et al. **J Rheumatol** 1996 Feb;23(2):407-8

The association between external weather conditions and pain and stiffness in women with rheumatoid arthritis. Drane D, et al. **J Rheumatol** 1997 Jul;24(7):1309-16 (22 ref.)

Presence of psoriasis does not influence the presentation or short-term outcome of patients with early inflammatory polyarthritis. Harrison BJ, et al. **J Rheumatol** 1997 Sep; 24(9):1744-9

Problems complicating the genetic epidemiology of rheumatoid arthritis. Silman AJ. **J Rheumatol** 1997 Jan; 24(1):194-6

Validity of self-reported rheumatoid arthritis in elderly women. Star VL, et al. **J Rheumatol** 1996 Nov; 23(11):1862-5

Arthritis in Australia: an emerging public health problem [letter] Finocchiaro C, et al. **Med J Aust** 1996 Sep 16; 165(6):352

Randomized, placebo controlled trial of withdrawal of slow-acting antirheumatic drugs and of observer bias in rheumatoid arthritis. Gøtzsche PC, et al. **Scand J Rheumatol** 1996;25(4):194-9

Incidence of ocular complications in rheumatoid arthritis and the relation of keratoconjunctivitis sicca with its systemic activity. Matsuo T, et al. **Scand J Rheumatol** 1997; 26(2):113-6

[Epidemiological aspects of acute rheumatoid arthritis in the South Pacific] Dussarat GV. **Med Trop (Mars)** 1996;56(3 Suppl):25-8 (15 ref.) **(Fre)**

[Management of acute rheumatoid arthritis in French Polynesia] Kamblock J, et al. **Med Trop (Mars)** 1996;56(3 Suppl):29-30 (0 ref.) **(Fre)**

[Epidemiology and pathogenesis of acute rheumatoid arthritis] Olivier C. **Med Trop (Mars)** 1996;56(3 Suppl):17-20 (0 ref.) **(Fre)**

[Epidemiological aspects of acute rheumatoid arthritis in the Maghreb countries] Soulami S, et al. **Med Trop (Mars)** 1996; 56(3 Suppl):21-4 (26 ref.) **(Fre)**

[Rheumatoid arthritis in Black Africa] Mijiyawa M. **Rev Med Interne** 1996;17(8):625-6 (24 ref.) **(Fre)**

[Work disability work in the first year of chronic polyarthritis. A comparison with members of the legal health health insurance] Mau W, et al. **Z Rheumatol** 1997 Jan-Feb;56(1):1-7 (Eng. Abstr.) **(Ger)**

[Rheumatoid patients in rheumatology (editorial)] Imura S. **Ryumachi** 1996 Dec;36(6):815-8 (5 ref.) **(Jpn)**

ETHNOLOGY

Association of complement alleles C4AQ0 and C4B5 with rheumatoid arthritis in Koreans. Park MH, et al. **Ann Rheum Dis** 1996 Oct;55(10):776-8

A comparison of the prevalence of rheumatoid arthritis and other rheumatic diseases amongst Pakistanis living in England and Pakistan. Hameed K, et al. **Br J Rheumatol** 1997 Jul;36(7):781-5

The study of circulating CD5 positive B lymphocytes in Chinese patients with rheumatoid arthritis. Liu ST, et al. **Clin Rheumatol** 1996 May;15(3):250-3

An epidemiological study of rheumatoid arthritis in a northern Ontario clinical practice: the role of ethnicity. Jacono J, et al. **J Adv Nurs** 1996 Jul;24(1):31-5

ETIOLOGY

Synovial fluid levels of proinflammatory interleukins and their inter-relationships in elderly vs younger onset rheumatoid arthritis. Punzi L, et al. **Aging (Milano)** 1996 Aug;8(4):277-81

Granulocyte-macrophage colony stimulating factor exacerbates collagen induced arthritis in mice. Campbell IK, et al. **Ann Rheum Dis** 1997 Jun;56(6):364-8

Smoke gets in your joints? [comment] Deighton C. **Ann Rheum Dis** 1997 Aug;56(8):453-4. Comment on: Ann Rheum Dis 1997 Aug;56(8):463-9.

Cigarette smoking and rheumatoid arthritis severity [see comments] Saag KG, et al. **Ann Rheum Dis** 1997 Aug; 56(8):463-9. Comment in: Ann Rheum Dis 1997 Aug;56(8):453-4.

Role of cytokines in rheumatoid arthritis. Feldmann M, et al. **Annu Rev Immunol** 1996;14:397-440 (226 ref.)

Invasive fibroblast-like synoviocytes in rheumatoid arthritis. Passive responders or transformed aggressors? Firestein GS. **Arthritis Rheum** 1996 Nov;39(11):1781-90 (85 ref.)

The role of T cells in the immunopathogenesis of rheumatoid arthritis: new perspectives. Fox DA. **Arthritis Rheum** 1997 Apr;40(4):598-609 (131 ref.)

Mycoplasma infection and rheumatoid arthritis: analysis of their relationship using immunoblotting and an ultrasensitive polymerase chain reaction detection method. Hoffman RW, et al. **Arthritis Rheum** 1997 Jul;40(7):1219-28

Smoking and rheumatoid arthritis--observations from a multicase family study: comment on the article by Silman et al [letter; comment] McDonagh JE, et al. **Arthritis Rheum** 1997 Mar;40(3):594. Comment on: Arthritis Rheum 1996 May;39(5):732-5.

Adhesion molecules: a rheumatologic perspective. Mojcik CF, et al. **Arthritis Rheum** 1997 Jun;40(6):991-1004 (164 ref.)

Late-onset rheumatoid arthritis: is pitting oedema of the hands at onset a good prognostic indicator? Bhakta BB, et al. **Br J Rheumatol** 1997 Feb;36(2):214-9

Rheumatoid arthritis and the balance of dietary N-6 and N-3 essential fatty acids [editorial] Cleland LG, et al. **Br J Rheumatol** 1997 May;36(5):513-4

Joint destruction in rheumatoid arthritis: biological bases. Kingsley G, et al. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S3-14 (103 ref.)

Y box-binding trans-regulatory nuclear proteins and susceptibility to rheumatoid arthritis. Singal DP, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):669-72

New insights into the pathogenesis and treatment of rheumatoid arthritis. Odeh M. **Clin Immunol Immunopathol** 1997 May;83(2):103-16 (209 ref.)

A multistep molecular mimicry hypothesis for the pathogenesis of rheumatoid arthritis. Albani S, et al. **Immunol Today** 1996 Oct;17(10):466-70 (52 ref.)

Could endogenous self-peptides presented by dendritic cells initiate rheumatoid arthritis? Thomas R, et al. **Immunol Today** 1996 Dec;17(12):559-64 (39 ref.)

Lymphocytes from site of disease indicate probable microbiological etiology of "infective-immune" diseases such as rheumatoid arthritis. Ford DK, et al. **Infect Agents Dis** 1996 Oct;5(4):223-30 (62 ref.)

Cervical spine involvement in rheumatoid arthritis: prevalence and relationship with overall disease severity. Aggarwal A, et al. **J Assoc Physicians India** 1996 Jul; 44(7):468-71

Presence of cyclophilin A in synovial fluids of patients with rheumatoid arthritis. Billich A, et al. **J Exp Med** 1997 Mar 3;185(5):975-80

Constitutive intra-articular expression of human IL-1 beta following gene transfer to rabbit synovium produces all major pathologies of human rheumatoid arthritis. Ghivizzani SC, et al. **J Immunol** 1997 Oct 1;159(7):3604-12

Understanding rheumatoid arthritis [editorial] Ford DK. **J Rheumatol** 1997 Aug;24(8):1464-6 (30 ref.)

Scuba diving: a new risk for lung fibrosis and connective tissue disease? [letter] Koeger AC, et al. **J Rheumatol** 1996 Nov;23(11):2010

Do appendectomy and tonsillectomy reduce the risk of rheumatoid arthritis? [letter] Koumantaki Y, et al. **J Rheumatol** 1997 Jun;24(6):1241–2

Development of polyarthritis after insertion of silicone breast implants followed by remission after implant removal in 2 HLA-identical sisters bearing rheumatoid arthritis susceptibility genes. Meier LG, et al. **J Rheumatol** 1997 Sep;24(9):1838–41

Onset of rheumatoid arthritis after surgical treatment of Cushing's disease. Uthman I, et al. **J Rheumatol** 1995 Oct; 22(10):1964–6

Adrenal and gonadal steroid hormone deficiency in the pathogenesis of rheumatoid arthritis. Wilder RL. **J Rheumatol Suppl** 1996 Mar;44:10–2

Pathogenesis of rheumatoid arthritis. Weyand CM, et al. **Med Clin North Am** 1997 Jan;81(1):29–55

Ross River virus disease and rheumatoid arthritis [letter] Douglas WA. **Med J Aust** 1997 Aug 18;167(4):229–30

Joint pain and weather. A critical review of the literature. Quick DC. **Minn Med** 1997 Mar;80(3):25–9 (24 ref.)

Rheumatoid Arthritis—heresies and speculations. Fox DA. **Perspect Biol Med** 1997 Summer;40(4):479–91

Female hormone therapy and the risk of developing or exacerbating systemic lupus erythematosus or rheumatoid arthritis. Liang MH, et al. **Proc Assoc Am Physicians** 1996 Jan;108(1):25–8 (25 ref.)

The role of T-lymphocytes and cytokines in rheumatoid arthritis. Smolen JS, et al. **Scand J Rheumatol** 1996; 25(1):1–4 (34 ref.)

Rheumatoid arthritis as a bone marrow disorder. Berthelot JM, et al. **Semin Arthritis Rheum** 1996 Oct;26(2):505–14 (117 ref.)

[Tuberculosis and rheumatoid arthritis. Apropos of 4 cases (letter)] Haas C, et al. **Ann Med Interne (Paris)** 1996; 147(5):375–7 **(Fre)**

[Epidemiological aspects of acute rheumatoid arthritis in the South Pacific] Dussarat GV. **Med Trop (Mars)** 1996;56(3 Suppl):25–8 (15 ref.) **(Fre)**

[Epidemiology and pathogenesis of acute rheumatoid arthritis] Olivier C. **Med Trop (Mars)** 1996;56(3 Suppl):17–20 (0 ref.) **(Fre)**

[Epidemiological aspects of acute rheumatoid arthritis in the Maghreb countries] Soulami S, et al. **Med Trop (Mars)** 1996; 56(3 Suppl):21–4 (26 ref.) **(Fre)**

[Erosive nodular rheumatoid arthritis triggered by hepatitis B vaccination (letter)] Treves R, et al. **Presse Med** 1997 Apr 26;26(14):670 **(Fre)**

[Bronchiolitis obliterans preceding rheumatoid arthritis: effect of clarithromycin] Iwata M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Nov; 34(11):1271–6 (Eng. Abstr.) **(Jpn)**

[Expression of Fas/Fas ligand and proto-oncogenes in rheumatoid synovial tissues] Asahara H, et al. **Nippon Rinsho** 1996 Jul;54(7):1960–4 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Etiology of rheumatic diseases (editorial)] Ito K. **Ryumachi** 1996 Jun;36(3):491–2 **(Jpn)**

[An aspect on pathogenesis of rheumatoid arthritis] Kasukawa R, et al. **Ryumachi** 1996 Jun;36(3):580–91 (13 ref.) **(Jpn)**

[The role of superantigens in rheumatic disease] Miyata M, et al. **Ryumachi** 1996 Jun;36(3):598–604 (57 ref.) **(Jpn)**

[Active forms of oxygen and pathogenesis of rheumatoid arthritis and systemic lupus erythematosus] Lisitsyna TA, et al. **Vestn Ross Akad Med Nauk** 1996;(12):15–20 (51 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

A possible association of HLA-DR beta 1*04 subtypes and rheumatoid arthritis of peptide binding region amino acids. Varga E, et al. **Acta Microbiol Immunol Hung** 1996; 43(1):67–74

HLA sharing and history of miscarriage among women with rheumatoid arthritis [letter; comment] Brennan P. **Am J Hum Genet** 1997 Mar;60(3):738–40. Comment on: Am J Hum Genet 1995 Jun;56(6):1456–67.

Apoptosis in rheumatoid arthritis: p53 overexpression in rheumatoid arthritis synovium. Firestein GS, et al. **Am J Pathol** 1996 Dec;149(6):2143–51

Somatic mutation and CDR3 length of immunoglobulin lambda variable region genes in the synovium of patients with rheumatoid arthritis. Mageed RA, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:319–23 (4 ref.)

Immunoglobulin variable region (IgV) gene expression in rheumatoid factors from monozygotic twins with rheumatoid arthritis. Vencovský J, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:324–6

Should patients with recent onset of rheumatoid arthritis be offered genetic screening? [letter; comment] Emery P, et al. **Ann Rheum Dis** 1996 Dec;55(12):934–5. Comment on: Ann Rheum Dis 1996 Jul;55(7):407–10.

Allelic markers close to prolactin are associated with HLA-DRB1 susceptibility alleles among women with rheumatoid arthritis and systemic lupus erythematosus. Brennan P, et al. **Arthritis Rheum** 1997 Aug;40(8):1383–6

Association of rheumatoid arthritis with an amino acid allelic variation of the T cell receptor. Cornélis F, et al. **Arthritis Rheum** 1997 Aug;40(8):1387–90

Alternative splicing of the 5' region of cathepsin B pre-messenger RNA in rheumatoid synovial tissue. Lemaire R, et al. **Arthritis Rheum** 1997 Aug;40(8):1540–2

Use of T cell receptor/HLA-DRB1*04 molecular modeling to predict site-specific interactions for the DR shared epitope associated with rheumatoid arthritis. Penzotti JE, et al. **Arthritis Rheum** 1997 Jul;40(7):1316–26

Tumor necrosis factor a microsatellite polymorphism in rheumatoid arthritis: comment on the article by Hajeer et al [letter; comment] Perdriger A, et al. **Arthritis Rheum** 1997 Jul;40(7):1368–70. Comment on: Arthritis Rheum 1996 Jul;39(7):1109–14.

Polymorphism of the HLA-DMA and DMB genes in rheumatoid arthritis. Pinet V, et al. **Arthritis Rheum** 1997 May;40(5):854–8

HLA-DRB1 genes and disease severity in rheumatoid arthritis. The MIRA Trial Group. Minocycline in Rheumatoid Arthritis. Reveille JD, et al. **Arthritis Rheum** 1996 Nov;39(11):1802–7

H-ras oncogene point mutations in arthritic synovium. Roivainen A, et al. **Arthritis Rheum** 1997 Sep;40(9):1636–43

Polymorphism of the human immunoglobulin heavy chain locus in rheumatoid arthritis. Fakhfakh F, et al. **Autoimmunity** 1997;25(2):109–16

Expression of a human fetal anti-DNA antibody idiotype BEG-2 beta in the families of patients with rheumatoid arthritis. Ravirajan CT, et al. **Autoimmunity** 1995; 21(4):269–75

Identification of human semaphorin E gene expression in rheumatoid synovial cells by mRNA differential display. Mangasser-Stephan K, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):153–6

Tumour necrosis factor alpha gene polymorphisms in rheumatoid arthritis: association with susceptibility to, or severity of, disease? Brinkman BM, et al. **Br J Rheumatol** 1997 May;36(5):516–21

Comparative cytokine gene expression in synovial tissue of early rheumatoid arthritis and seronegative spondyloarthropathies. Cañete JD, et al. **Br J Rheumatol** 1997 Jan;36(1):38–42

Compound heterozygosity for the shared epitope and the risk and severity of rheumatoid arthritis in extended pedigrees. McDonagh JE, et al. **Br J Rheumatol** 1997 Mar; 36(3):322–7

HLA-DRB1* genotypes in Greek rheumatoid arthritis patients: association with disease characteristics, sex and age at onset [letter] Stavropoulos C, et al. **Br J Rheumatol** 1997 Jan;36(1):141–2

The relationship between HLA-DRB1 alleles and disease subsets of rheumatoid arthritis in Japanese. Wakitani S, et al. **Br J Rheumatol** 1997 Jun;36(6):630–6

Evidence for a selected humoral immune response encoded by VH4 family genes in the synovial membrane of a patient with rheumatoid arthritis (RA). Voswinkel J, et al. **Clin Exp Immunol** 1996 Oct;106(1):5–12

HSP70-1 promoter region alleles and susceptibility to rheumatoid arthritis. Quadri SA, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):183–5

Association of DMA and DMB with RA in Japanese. Takeuchi F, et al. **Clin Exp Rheumatol** 1997 Mar-Apr; 15(2):189–92

Analysis of the molecular basis of synovial rheumatoid factors in rheumatoid arthritis. Ermel RW, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):307–17

Prognostic significance of complement alleles Bf and C4 in early rheumatoid arthritis. Paimela L, et al. **Clin Rheumatol** 1996 Nov;15(6):594–8

Chromosomal changes in rheumatoid arthritis patients treated with CPH82. Rantapää Dahlqvist S, et al. **Clin Rheumatol** 1996 Nov;15(6):584–9

Pathways to gene therapy in rheumatoid arthritis. Evans CH, et al. **Curr Opin Rheumatol** 1996 May;8(3):230–4 (26 ref.)

TNF Nco-I RFLP is not an independent risk factor in rheumatoid arthritis. Campbell DA, et al. **Eur J Immunogenet** 1994 Dec;21(6):461–7

A shared HLA-DRB1 sequence confers RA susceptibility in Greeks. Carthy D, et al. **Eur J Immunogenet** 1993 Oct; 20(5):391–8

T cell receptor delta locus polymorphism in rheumatoid arthritis. Vandevyver C, et al. **Eur J Immunogenet** 1994 Dec;21(6):479–83

Polymorphism of the tumour necrosis factor beta gene in multiple sclerosis and rheumatoid arthritis. Vandevyver C, et al. **Eur J Immunogenet** 1994 Oct;21(5):377–82

Frequency of HLA-DPB1 alleles in a Spanish population: their contribution to rheumatoid arthritis susceptibility. Yélamos J, et al. **Eur J Immunogenet** 1994 Apr;21(2):91–8

Complex CD44 splicing combinations in synovial fibroblasts from arthritic joints. Croft DR, et al. **Eur J Immunol** 1997 Jul;27(7):1680–4

Clonal analysis of immunoglobulin mRNA in rheumatoid arthritis synovium: characterization of expanded IgG3 populations. Williams DG, et al. **Eur J Immunol** 1997 Feb; 27(2):476–85

The role of HLA-DR-DR and HLA-DR-DP interactions in genetic susceptibility to rheumatoid arthritis. Perdriger A, et al. **Hum Immunol** 1996 Mar;46(1):42–8

Immunosusceptibility genes in rheumatoid arthritis. Sherritt MA, et al. **Hum Immunol** 1996 Nov;51(1):32–40

Polymorphism of HLA-DRB, -DQA1, and -DQB1 in rheumatoid arthritis in Asian Indians: association with DRB1*0405 and DRB1*1001. Taneja V, et al. **Hum Immunol** 1996 Mar;46(1):35–41

HLA-DQ-binding peptide motifs. 1. Comparative binding analysis of type II collagen-derived peptides to DR and DQ molecules of rheumatoid arthritis-susceptible and non-susceptible haplotypes. Matsushita S, et al. **Int Immunol** 1996 May;8(5):757–64

Genetic bias in immune responses to a cassette shared by different microorganisms in patients with rheumatoid arthritis. La Cava A, et al. **J Clin Invest** 1997 Aug 1; 100(3):658–63

Human IL-1Ra gene transfer into human synovial fibroblasts is chondroprotective. Müller-Ladner U, et al. **J Immunol** 1997 Apr 1;158(7):3492–8

Linkage of rheumatoid arthritis to the candidate gene NRAMP1 on 2q35. Shaw MA, et al. **J Med Genet** 1996 Aug;33(8):672–7

Proceedings of the 5th International Workshop on Rheumatoid Arthritis Genetics. Manchester, United Kingdom, March 13–15, 1996. **J Rheumatol** 1997 Jan; 24(1):193–228

In situ expression of protooncogenes and Fas/Fas ligand in rheumatoid arthritis synovium. Asahara H, et al. **J Rheumatol** 1997 Mar;24(3):430–5

Influence of the QKRAA/QRRAA/RRRAA motifs of the third hypervariable region of HLA-DRB1 in the development of rheumatoid arthritis. Auger I, et al. **J Rheumatol** 1997 Jan;24(1):227–8

Corticotropin releasing hormone promoter region polymorphisms in rheumatoid arthritis. Baerwald CG, et al. **J Rheumatol** 1997 Jan;24(1):215–6

The Dunlop-Dottridge Lecture: prognosis in inflammatory arthritis: the value of HLA genotyping and the oncological analogy. Emery P. **J Rheumatol** 1997 Jul;24(7):1436–42

Tumor necrosis factor microsatellite haplotypes are different in male and female patients with RA. Hajeer A, et al. **J Rheumatol** 1997 Jan;24(1):217–9

Genetic mapping of susceptibility loci in the genes involved in rheumatoid arthritis. Hardwick LJ, et al. **J Rheumatol** 1997 Jan;24(1):197–8

Association of specific amino acid sequence of HLA-DR with rheumatoid arthritis in Koreans and its diagnostic value. Hong GH, et al. **J Rheumatol** 1996 Oct; 23(10):1699–703

Interaction between genes in the T cell receptor-alpha locus and HLA-DR4 in rheumatoid arthritis susceptibility. Ibberson M, et al. **J Rheumatol** 1997 Jan;24(1):223

Investigation of candidate disease susceptibility genes in rheumatoid arthritis: principles and strategies. John S, et al. **J Rheumatol** 1997 Jan;24(1):199–201

Linkage and association studies of the natural resistance associated macrophage protein 1 (NRAMP1) locus in rheumatoid arthritis. John S, et al. **J Rheumatol** 1997 Mar; 24(3):452–7

Association of HLA-DRB1*0405 with extraarticular manifestations and erosions in Singaporean Chinese with rheumatoid arthritis. Koh WH, et al. **J Rheumatol** 1997 Apr;24(4):629–32

Family history as a risk factor for rheumatoid arthritis: a case-control study. Koumantaki Y, et al. **J Rheumatol** 1997 Aug;24(8):1522–6

Rheumatoid factor isotypes in monozygotic and dizygotic twins discordant for rheumatoid arthritis. MacGregor AJ, et al. **J Rheumatol** 1995 Dec;22(12):2203–7

The sensitivity of different analytical methods to detect disease susceptibility genes in rheumatoid arthritis sibling pair families. Marlow A, et al. **J Rheumatol** 1997 Jan; 24(1):208–11

Association of the shared epitope with radiological severity of rheumatoid arthritis. Moreno I, et al. **J Rheumatol** 1996 Jan;23(1):6–9

Role of HLA-DR-DR and DR-DQ associations in the expression of extraarticular manifestations and rheumatoid factor in rheumatoid arthritis. Perdriger A, et al. **J Rheumatol** 1997 Jul;24(7):1272–6

Analysis of the candidate gene NRAMP1 in the first 61 ARC National Repository families for rheumatoid arthritis. Shaw MA, et al. **J Rheumatol** 1997 Jan;24(1):212–4

Problems complicating the genetic epidemiology of rheumatoid arthritis. Silman AJ. **J Rheumatol** 1997 Jan; 24(1):194–6

HLA-DRB1 and DQB typing of Hispanic American patients with rheumatoid arthritis: the "shared epitope" hypothesis may not apply. Teller K, et al. **J Rheumatol** 1996 Aug; 23(8):1363–8

HLA-DMA and DMB genotyping in patients with rheumatoid arthritis. Yen JH, et al. **J Rheumatol** 1997 Mar; 24(3):442–4

Prognostic implications of HLA genotyping in the early assessment of patients with rheumatoid arthritis. Nepom GT, et al. **J Rheumatol Suppl** 1996 Mar;44:5–9 (36 ref.)

Discovery and analysis of inflammatory disease-related genes using cDNA microarrays. Heller RA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2150–5

Influence of the HLA-DRB1 locus on susceptibility and severity in rheumatoid arthritis. Hall FC, et al. **QJM** 1996 Nov;89(11):821–9

Adult seronegative arthritis with antinuclear antibodies: a distinct group of patients with a different immunogenetic pattern from seropositive rheumatoid arthritis and a good outcome. Saudan-Kister A, et al. **Rev Rhum Engl Ed** 1996 May;63(5):313–20

Only weak association between disease severity and HLA-DRB 1 genes in a Swiss population of rheumatoid

arthritis patients. Seitz M, et al. **Rheumatol Int** 1996; 16(1):9–13

Schizophrenia, rheumatoid arthritis and natural resistance genes. Rubinstein G. **Schizophr Res** 1997 Jun 20; 25(3):177–81 (40 ref.)

HLA–DRB1 in eight Finnish monozygotic twin pairs concordant for rheumatoid arthritis. de Vries N, et al. **Tissue Antigens** 1997 Mar;49(3 Pt 1):277–9

Polymorphism of TAP1 and TAP2 in Japanese patients with rheumatoid arthritis. Takeuchi F, et al. **Tissue Antigens** 1997 Mar;49(3 Pt 1):280–2

Heat shock protein 70 gene polymorphisms in rheumatoid arthritis. Vinasco J, et al. **Tissue Antigens** 1997 Jul; 50(1):71–3

Polymorphism at the TNF loci in rheumatoid arthritis. Vinasco J, et al. **Tissue Antigens** 1997 Jan;49(1):74–8

HLA–D region genes and susceptibility to rheumatoid arthritis. Singal DP, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1126

[Analysis of linkage of HLA antigens and rheumatoid arthritis] Miakotkin VA, et al. **Genetika** 1996 Jul; 32(7):985–9 (Eng. Abstr.) **(Rus)**

HISTORY

The treatment of rheumatoid arthritis in this century: from spas to monoclonal antibodies. Pasero G. **Clin Exp Rheumatol** 1997 May–Jun;15 Suppl 17:S67–70

Arthrodesis of the first metatarsophalangeal joint for hallux valgus in rheumatoid arthritis. 1984 [classical article] Mann RA, et al. **Foot Ankle Int** 1997 Feb;18(2):65–7

History of combination therapy of rheumatoid arthritis. Paulus HE. **J Rheumatol Suppl** 1996 Mar;44:38–42

An historical review of rheumatoid arthritis treatment: 1948 to 1952. Karsh J, et al. **Semin Arthritis Rheum** 1997 Aug; 27(1):57–65

IMMUNOLOGY

Comparative analysis of CD45RA– and CD45RO–positive CD4+T cells in peripheral blood, synovial fluid, and synovial tissue in patients with rheumatoid arthritis and osteoarthritis. Ezawa K, et al. **Acta Med Okayama** 1997 Feb;51(1):25–31

Positivity for antinuclear antibody in patients with advanced rheumatoid arthritis. Nishimura S, et al. **Acta Med Okayama** 1996 Oct;50(5):261–5

A possible association of HLA–DR beta 1*04 subtypes and rheumatoid arthritis of peptide binding region amino acids. Varga E, et al. **Acta Microbiol Immunol Hung** 1996; 43(1):67–74

Anti–tumor necrosis factor–alpha therapy of rheumatoid arthritis. Feldmann M, et al. **Adv Immunol** 1997;64:283–350 (271 ref.)

Cytokine expression and cell activation in inflammatory arthritis. Ivashkiv LB. **Adv Immunol** 1996;63:337–76 (190 ref.)

Detecting disease–predisposing variants: the haplotype method. Valdes AM, et al. **Am J Hum Genet** 1997 Mar; 60(3):703–16

Transgenic models for arthritis: useful clues to be gained? [editorial] Brennan FM. **Ann Med** 1996 Aug;28(4):271–4 (23 ref.)

Changes in agalactosyl IgG levels correlate with radiological progression in early rheumatoid arthritis. Lacki JK, et al. **Ann Med** 1996 Jun;28(3):265–9

CDR3 fingerprinting of immunoglobulin kappa light chains expressed in rheumatoid arthritis. Evidence of antigenic selection or dysregulation of gene rearrangement in B cells. Bridges SL Jr, et al. **Ann N Y Acad Sci** 1997 Apr 5; 815:423–6

Fine specificity analysis of autoantibodies to T cell receptor CDR1 segments in rheumatoid arthritis. Landsperger WJ, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:459–61

Evidence for B cell oligoclonality in the blood and joints of patients with rheumatoid arthritis. Patki V, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:472–4

Regulation of rheumatoid factor production by B cells from healthy individuals and patients with rheumatoid arthritis. Van Esch WJ, et al. **Ann N Y Acad Sci** 1997 Apr 5; 815:361–3

Evidence for a selected humoral immune response encoded by VH4 family genes in the synovial membrane of a patient with RA. Voswinkel J, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:312–5

Length diversity of immunoglobulin heavy–chain variable regions from rheumatoid arthritis synovium. Williams DG, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:516–9

Serum immunoglobulins and the risk of rheumatoid arthritis. Aho K, et al. **Ann Rheum Dis** 1997 Jun;56(6):351–6

Rheumatoid arthritis: autoreactive T cells recognising a novel 68k autoantigen. Bläss S, et al. **Ann Rheum Dis** 1997 May; 56(5):317–22

Do sex hormones modulate the synovial macrophages in rheumatoid arthritis? Cutolo M. **Ann Rheum Dis** 1997 May; 56(5):281–4

Influence of the HLA–DR beta shared epitope on susceptibility to and clinical expression of rheumatoid arthritis in Chilean patients. González A, et al. **Ann Rheum Dis** 1997 Mar;56(3):191–3

Generation and molecular characterisation of monoclonal IgG4 rheumatoid factor from a patient with rheumatoid arthritis. Hakoda M, et al. **Ann Rheum Dis** 1997 Jan; 56(1):74–7

Prospective study of the clinical value of determining circulating IgA–alpha 1–antitrypsin complex using a prototype ELISA kit in patients with rheumatoid arthritis. Iwana K, et al. **Ann Rheum Dis** 1996 Nov;55(11):848–51

Absence of peripheral blood T cell responses to "shared epitope' containing peptides in recent onset rheumatoid arthritis. McColl GJ, et al. **Ann Rheum Dis** 1997 Apr; 56(4):240–6

Association of complement alleles C4AQ0 and C4B5 with rheumatoid arthritis in Koreans. Park MH, et al. **Ann Rheum Dis** 1996 Oct;55(10):776–8

Annexin V autoantibodies in rheumatoid arthritis. Rodriguez–García MI, et al. **Ann Rheum Dis** 1996 Dec; 55(12):895–900

The functional affinity of IgM rheumatoid factor is related to the disease duration in patients with rheumatoid arthritis. Saraux A, et al. **Ann Rheum Dis** 1997 Feb;56(2):126–9

Antibody deficiency associated with gold treatment: natural history and management in 22 patients. Snowden N, et al. **Ann Rheum Dis** 1996 Sep;55(9):616–21

Fasting enhances mucosal antigen specific B cell responses in rheumatoid arthritis. Trollmo C, et al. **Ann Rheum Dis** 1997 Feb;56(2):130–4

Use of monoclonal antibodies to detect disease associated HLA–DRB1 alleles and the shared epitope in rheumatoid arthritis. Wicks I, et al. **Ann Rheum Dis** 1997 Feb; 56(2):135–9

Role of cytokines in rheumatoid arthritis. Feldmann M, et al. **Annu Rev Immunol** 1996;14:397–440 (226 ref.)

TNF blockade in rheumatoid arthritis: implications for therapy and pathogenesis. Maini RN, et al. **APMIS** 1997 Apr;105(4):257–63 (34 ref.)

Antibodies to type II collagen in early rheumatoid arthritis. Correlation with disease progression. Cook AD, et al. **Arthritis Rheum** 1996 Oct;39(10):1720–7

The role of T cells in the immunopathogenesis of rheumatoid arthritis: new perspectives. Fox DA. **Arthritis Rheum** 1997 Apr;40(4):598–609 (131 ref.)

Increased responsiveness of rheumatoid factor–producing B cells in seronegative and seropositive rheumatoid arthritis. He X, et al. **Arthritis Rheum** 1996 Sep;39(9):1499–506

The presence of interleukin–13 in rheumatoid synovium and its antiinflammatory effects on synovial fluid macrophages from patients with rheumatoid arthritis. Isomäki P, et al. **Arthritis Rheum** 1996 Oct;39(10):1693–702

Perinuclear antineutrophil cytoplasmic antibody in rheumatoid arthritis: a marker of severe disease with associated nephropathy. Mustila A, et al. **Arthritis Rheum** 1997 Apr;40(4):710–7

T cell responses to human type II collagen in patients with rheumatoid arthritis and healthy controls. Snowden N, et al. **Arthritis Rheum** 1997 Jul;40(7):1210–8

Immunogenetic similarities between patients with Felty's syndrome and those with clonal expansions of large granular lymphocytes in rheumatoid arthritis. Starkebaum G, et al. **Arthritis Rheum** 1997 Apr;40(4):624–6

Human cartilage glycoprotein–39 as a candidate autoantigen in rheumatoid arthritis. Verheijden GF, et al. **Arthritis Rheum** 1997 Jun;40(6):1115–25

HLA markers and prediction of clinical course and outcome in rheumatoid arthritis. Wagner U, et al. **Arthritis Rheum** 1997 Feb;40(2):341–51

Polymorphism of the human immunoglobulin heavy chain locus in rheumatoid arthritis. Fakhfakh F, et al. **Autoimmunity** 1997;25(2):109–16

In vivo migration of tonsil lymphocytes in rheumatoid synovial tissue engrafted in SCID mice: involvement of LFA–1. Jorgensen C, et al. **Autoimmunity** 1996; 24(3):179–85

Agalactosyl IgG and antibody specificity in rheumatoid arthritis, tuberculosis, systemic lupus erythematosus and myasthenia gravis. Pilkington C, et al. **Autoimmunity** 1995; 22(2):107–11

Expression of a human fetal anti–DNA antibody idiotype BEG–2 beta in the families of patients with rheumatoid arthritis. Ravirajan CT, et al. **Autoimmunity** 1995; 21(4):269–75

Restricted heterogeneity and changing spectrotypes in autoantibodies to La/SS–B. Satoh M, et al. **Autoimmunity** 1996;24(4):229–36

The neuroendocrine immunology of rheumatoid arthritis . Chikanza IC. **Baillieres Clin Rheumatol** 1996 May; 10(2):273–93 (59 ref.)

Fas–mediated stimulation induces IL–8 secretion by rheumatoid arthritis synoviocytes independently of CPP32–mediated apoptosis. Sekine C, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):14–20

Do stress proteins have a regulatory role in autoimmune rheumatoid arthritis? Bell CG. **Biochem Soc Trans** 1996 Aug;24(3):494S

Expression of Fc gamma RIII in neutrophils in rheumatoid arthritis. Quayle JA, et al. **Biochem Soc Trans** 1996 Aug; 24(3):489S

Altered protein tyrosine phosphorylation in rheumatoid T cells which is mimicked by hydrogen peroxide. Ritter JL, et al. **Biochem Soc Trans** 1997 May;25(2):303S

Comparison of IgA–alpha 1–antitrypsin levels in rheumatoid and reactive arthritis. Scott LJ, et al. **Biochem Soc Trans** 1997 May;25(2):370S

Gene expression by inflammatory neutrophils: stimulation of interleukin–1 beta production by rheumatoid synovial fluid. White FS, et al. **Biochem Soc Trans** 1996 Aug;24(3):493S

T–cells in the pathogenesis of rheumatoid arthritis villains or accomplices? Kinne RW, et al. **Biochim Biophys Acta** 1997 Apr 12;1360(2):109–41 (360 ref.)

Oligoclonal CD4+ CD57+ T–cell expansions contribute to the imbalanced T–cell receptor repertoire of rheumatoid arthritis patients. Imberti L, et al. **Blood** 1997 Apr 15; 89(8):2822–32

Allogeneic bone marrow transplantation from a donor with severe active rheumatoid arthritis not resulting in adoptive transfer of disease to recipient. Snowden JA, et al. **Bone Marrow Transplant** 1997 Jul;20(1):71–3

CD8 lymphocyte subsets in active polymyalgia rheumatica: comparison with elderly–onset and adult rheumatoid arthritis and influence of prednisone therapy. Boiardi L, et al. **Br J Rheumatol** 1996 Jul;35(7):642–8

Post–partum flare in MRL–lpr/lpr mice is associated with a parallel increase of N–acetylglucosamine on serum IgG. Bond A, et al. **Br J Rheumatol** 1997 Feb;36(2):174–7

T cells in rheumatoid arthritis [editorial] Breedveld FC, et al. **Br J Rheumatol** 1997 Jun;36(6):617–9

ANCA in RA patients [letter] Guang LS. **Br J Rheumatol** 1996 Dec;35(12):1328–9

Compound heterozygosity for the shared epitope and the risk and severity of rheumatoid arthritis in extended pedigrees. McDonagh JE, et al. **Br J Rheumatol** 1997 Mar; 36(3):322–7

The Michael Mason Prize Essay 1996. Role of adhesion mechanisms in the pathogenesis of chronic synovitis. Pitzalis C. **Br J Rheumatol** 1996 Dec;35(12):1198–215 (108 ref.)

Synovial fluid interleukin–8 and neutrophil function in rheumatoid arthritis and seronegative polyarthritis. Troughton PR, et al. **Br J Rheumatol** 1996 Dec; 35(12):1244–51

The relationship between HLA–DRB1 alleles and disease subsets of rheumatoid arthritis in Japanese. Wakitani S, et al. **Br J Rheumatol** 1997 Jun;36(6):630–6

HLA DRB1* typing and cartilage oligomeric matrix protein (COMP) as predictors of joint destruction in recent–onset rheumatoid arthritis. Wollheim FA, et al. **Br J Rheumatol** 1997 Aug;36(8):847–9

The autonomic nervous system and the immune system in juvenile rheumatoid arthritis. Kuis W, et al. **Brain Behav Immun** 1996 Dec;10(4):387–98

Characteristics of synovial fluid effusion in collagen–induced arthritis (CIA) in the DA rat; a comparison of histology and antibody reactivities in an experimental chronic arthritis model and rheumatoid arthritis (RA). Erlandsson Harris H, et al. **Clin Exp Immunol** 1997 Mar;107(3):480–4

Human monoclonal rheumatoid factors augment arthritis in mice by the activation of T cells. Ezaki I, et al. **Clin Exp Immunol** 1996 Jun;104(3):474–82

Characterization of a soluble form of CD58 in synovial fluid of patients with rheumatoid arthritis (RA). Hoffmann JC, et al. **Clin Exp Immunol** 1996 Jun;104(3):460–6

Blood monocyte activation in rheumatoid arthritis: increased monocyte adhesiveness, integrin expression, and cytokine release. Lioté F, et al. **Clin Exp Immunol** 1996 Oct; 106(1):13–9

Inhibitory effect of clarithromycin on costimulatory molecule expression and cytokine production by synovial fibroblast–like cells. Matsuoka N, et al. **Clin Exp Immunol** 1996 Jun;104(3):501–8

The chemoattractant activity of rheumatoid synovial fluid for human lymphocytes is due to multiple cytokines. al–Mughales J, et al. **Clin Exp Immunol** 1996 Nov; 106(2):230–6

The functional CD40 antigen of fibroblasts may contribute to the proliferation of rheumatoid synovium. Rissoan MC, et al. **Clin Exp Immunol** 1996 Dec;106(3):481–90

Evidence for a selected humoral immune response encoded by VH4 family genes in the synovial membrane of a patient with rheumatoid arthritis (RA). Voswinkel J, et al. **Clin Exp Immunol** 1996 Oct;106(1):5–12

Comparable histological appearance of synovitis in seropositive and seronegative rheumatoid arthritis. Fujinami M, et al. **Clin Exp Rheumatol** 1997 Jan–Feb; 15(1):11–7

IgA isotype rheumatoid factor in rheumatoid arthritis: clinical implications. Jorgensen C, et al. **Clin Exp Rheumatol** 1996 May–Jun;14(3):301–4

Lack of evidence for the role of staphylococcal enterotoxins in rheumatoid arthritis. Liu MF, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):67–70

Outcome of radical multiple synovectomy as a novel surgical treatment for refractory rheumatoid arthritis: implication of HLA–DRB1*0405 in post–operative results. Nakamura H, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):53–7

The clinical value of serum immunoglobulin levels in early rheumatoid arthritis [letter] Paimela L, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):450–1

A molecular basis for the association of HLA class II molecules with rheumatoid arthritis [editorial] Sinigaglia F, et al. **Clin Exp Rheumatol** 1995 Nov–Dec;13(6):683–5

Expression of Fas antigen and Fas ligand in the rheumatoid synovial tissue. Asahara H, et al. **Clin Immunol Immunopathol** 1996 Oct;81(1):27–34

Preferential binding with Escherichia coli hsp60 of antibodies prevalent in sera from patients with rheumatoid arthritis. Hirata D, et al. **Clin Immunol Immunopathol** 1997 Feb; 82(2):141–8

Thyroid function and immune profile in rheumatoid arthritis. A controlled study. Andonopoulos AP, et al. **Clin Rheumatol** 1996 Nov;15(6):599–603

Interleukin–10 and interleukin–6 in lupus erythematosus and rheumatoid arthritis, correlations with acute phase proteins. Lacki JK, et al. **Clin Rheumatol** 1997 May;16(3):275–8

The study of circulating CD5 positive B lymphocytes in Chinese patients with rheumatoid arthritis. Liu ST, et al. **Clin Rheumatol** 1996 May;15(3):250–3

Molecular analysis of the T-cell receptor beta-chain repertoire in early rheumatoid arthritis: heterogeneous TCRBV gene usage with shared amino acid profiles in CDR3 regions of T lymphocytes in multiple synovial tissue needle biopsies from the same joint. Struyk L, et al. **Eur J Clin Invest** 1996 Dec;26(12):1092–102

TNF Nco–I RFLP is not an independent risk factor in rheumatoid arthritis. Campbell DA, et al. **Eur J Immunogenet** 1994 Dec;21(6):461–7

A shared HLA–DRB1 sequence confers RA susceptibility in Greeks. Carthy D, et al. **Eur J Immunogenet** 1993 Oct; 20(5):391–8

T cell receptor delta locus polymorphism in rheumatoid arthritis. Vandevyver C, et al. **Eur J Immunogenet** 1994 Dec;21(6):479–83

Attenuation of collagen–induced arthritis in mice by treatment with vector cells engineered to secrete interleukin–13. Bessis N, et al. **Eur J Immunol** 1996 Oct; 26(10):2399–403

Complex CD44 splicing combinations in synovial fibroblasts from arthritic joints. Croft DR, et al. **Eur J Immunol** 1997 Jul;27(7):1680–4

Comparison of rheumatoid factors of rheumatoid arthritis patients, of individuals with mycobacterial infections and of normal controls: evidence for maturation in the absence of an autoimmune response. Djavad N, et al. **Eur J Immunol** 1996 Oct;26(10):2480–6

Cytokine stimulation of T lymphocytes regulates their capacity to induce monocyte production of tumor necrosis factor–alpha, but not interleukin–10: possible relevance to pathophysiology of rheumatoid arthritis. Sebbag M, et al. **Eur J Immunol** 1997 Mar;27(3):624–32

Prevention and amelioration of collagen–induced arthritis by blockade of the CD28 co–stimulatory pathway: requirement for both B7–1 and B7–2. Webb LM, et al. **Eur J Immunol** 1996 Oct;26(10):2320–8

Pleural fluid interferon–gamma and tumour necrosis factor–alpha in tuberculous and rheumatoid pleurisy. Söderblom T, et al. **Eur Respir J** 1996 Aug;9(8):1652–5

Autoimmune disorders, physical activity, and training, with particular reference to rheumatoid arthritis. Shephard RJ, et al. **Exerc Immunol Rev** 1997;3:53–67 (80 ref.)

An improved ELISA for the determination of sialyl Lewis(x) structures on purified glycoconjugates. Katnik I, et al. **Glycoconj J** 1996 Dec;13(6):1043–7

Spread of clonal T–cell expansions in rheumatoid arthritis patients. Lim A, et al. **Hum Immunol** 1996 Jun–Jul; 48(1–2):77–83

The role of macrophages in chronic arthritis. van den Berg WB, et al. **Immunobiology** 1996 Oct;195(4–5):614–23 (19 ref.)

A distinctive peptide binding motif for HLA–DRB1*0407, an HLA–DR4 subtype not associated with rheumatoid arthritis. Davenport MP, et al. **Immunogenetics** 1997; 45(3):229–32

CD70 expression on T–cell subpopulations: study of normal individuals and patients with chronic immune activation. Brugnoni D, et al. **Immunol Lett** 1997 Feb;55(2):99–104

Molecular mechanisms involved in the association of HLA–DR4 and rheumatoid arthritis. Auger I, et al. **Immunol Res** 1997 Feb;16(1):121–6 (17 ref.)

Seeing the wood for the trees: the forgotten role of neutrophils in rheumatoid arthritis. Edwards SW, et al. **Immunol Today** 1997 Jul;18(7):320–4 (46 ref.)

The calpain–calpastatin system in rheumatoid arthritis. Ménard HA, et al. **Immunol Today** 1996 Dec;17(12):545–7 (36 ref.)

Bypassing the antigen to control rheumatoid arthritis. Miossec P, et al. **Immunol Today** 1996 Apr;17(4):170–3

Could endogenous self–peptides presented by dendritic cells initiate rheumatoid arthritis? Thomas R, et al. **Immunol Today** 1996 Dec;17(12):559–64 (39 ref.)

HLA–DR4 restriction, molecular mimicry and rheumatoid arthritis [letter; comment] Wilson C, et al. **Immunol Today** 1997 Feb;18(2):96–7. Comment on: Immunol Today 1996 Feb;17(2):64–70.

Inhibitory effects of interleukin–10 on synovial cells of rheumatoid arthritis. Kawakami A, et al. **Immunology** 1997 Jun;91(2):252–9

TNF–alpha–mediated expression of membrane–type matrix metalloproteinase in rheumatoid synovial fibroblasts. Migita K, et al. **Immunology** 1996 Dec;89(4):553–7

Neutrophils from the synovial fluid of patients with rheumatoid arthritis express the high affinity immunoglobulin G receptor, Fc gamma RI (CD64): role of immune complexes and cytokines in induction of receptor expression. Quayle JA, et al. **Immunology** 1997 Jun;91(2):266–73

Inflammatory and immunological parameters of disease activity in rheumatoid arthritis patients treated with minocycline. Kloppenburg M, et al. **Immunopharmacology** 1996 Mar;31(2–3):163–9

Elevated levels of anti–proteus antibodies in patients with active rheumatoid arthritis. Wanchu A, et al. **Indian J Med Res** 1997 Jan;105:39–42

Lymphocytes from site of disease indicate probable microbiological etiology of "infective–immune" diseases such as rheumatoid arthritis. Ford DK, et al. **Infect Agents Dis** 1996 Oct;5(4):223–30 (62 ref.)

HLA–DQ–binding peptide motifs. 1. Comparative binding analysis of type II collagen–derived peptides to DR and DQ molecules of rheumatoid arthritis–susceptible and non–susceptible haplotypes. Matsushita S, et al. **Int Immunol** 1996 May;8(5):757–64

Expression of the H2–E molecule mediates protection to collagen–induced arthritis in HLA–DQ8 transgenic mice: role of cytokines. Taneja V, et al. **Int Immunol** 1997 Aug; 9(8):1213–9

In vitro effect of gold sodium thiomalate and methotrexate on tumor necrosis factor production in normal healthy individuals and patients with rheumatoid arthritis. Yadav R, et al. **Int J Immunopharmacol** 1997 Feb;19(2):111–4

Lymphocytotoxic antibodies in Israeli patients with rheumatoid arthritis. Livneh A, et al. **Isr J Med Sci** 1997 Jan;33(1):30–5

In situ hybridization study of vascular cell adhesion molecule–1 messenger RNA expression in rheumatoid synovium. Higashiyama H, et al. **J Autoimmun** 1995 Dec; 8(6):947–57

Detection of human–specific anti–la(SSB) antibodies in patients with rheumatoid arthritis. Manoussakis MN, et al. **J Autoimmun** 1995 Dec;8(6):959–69

A structural model for TCR recognition of the HLA class II shared epitope sequence implicated in susceptibility to rheumatoid arthritis. Penzotti JE, et al. **J Autoimmun** 1996 Apr;9(2):287–93

Treatment with a chimeric CD4 monoclonal antibody is associated with a relative loss of CD4+/CD45RA+ cells in patients with rheumatoid arthritis. van der Lubbe PA, et al. **J Autoimmun** 1997 Feb;10(1):87–97

Interleukin–6 and soluble interleukin–6 receptors in the synovial fluids from rheumatoid arthritis patients are responsible for osteoclast–like cell formation. Kotake S, et al. **J Bone Miner Res** 1996 Jan;11(1):88–95

Interleukin–10 (IL–10) secretion in systemic lupus erythematosus and rheumatoid arthritis: IL–10–dependent CD4+CD45RO+ T cell–B cell antibody synthesis. al–Janadi M, et al. **J Clin Immunol** 1996 Jul;16(4):198–207

Genetic bias in immune responses to a cassette shared by different microorganisms in patients with rheumatoid arthritis. La Cava A, et al. **J Clin Invest** 1997 Aug 1; 100(3):658–63

Genetic control of T cell receptor BJ gene expression in peripheral lymphocytes of normal and rheumatoid arthritis monozygotic twins. Nanki T, et al. **J Clin Invest** 1996 Oct 1;98(7):1594–601

Inhibition of T cell apoptosis in the rheumatoid synovium. Salmon M, et al. **J Clin Invest** 1997 Feb 1;99(3):439–46

Anti–A2/RA33 autoantibodies are directed to the RNA binding region of the A2 protein of the heterogeneous nuclear ribonucleoprotein complex. Differential epitope recognition in rheumatoid arthritis, systemic lupus erythematosus, and mixed connective tissue disease. Skriner K, et al. **J Clin Invest** 1997 Jul 1;100(1):127–35

Stimulation of suppressive T cell responses by human but not bacterial 60–kD heat–shock protein in synovial fluid of patients with rheumatoid arthritis. van Roon JA, et al. **J Clin Invest** 1997 Jul 15;100(2):459–63

Diversification of T cell responses to carboxy–terminal determinants within the 65–kD heat–shock protein is involved in regulation of autoimmune arthritis. Moudgil KD, et al. **J Exp Med** 1997 Apr 7;185(7):1307–16

When do microbes stimulate rheumatoid factor? [comment] Posnett DN, et al. **J Exp Med** 1997 May 19;185(10):1721–3 (26 ref.). Comment on: J Exp Med 1997 May 19;185(10):1785–92.

T cell response to Epstein–Barr virus transactivators in chronic rheumatoid arthritis. Scotet E, et al. **J Exp Med** 1996 Nov 1;184(5):1791–800

Selection of T cells reactive against autologous B lymphoblastoid cells during chronic rheumatoid arthritis. David–Ameline J, et al. **J Immunol** 1996 Nov 15; 157(10):4697–706

Increased expression of signaling lymphocytic activation molecule in patients with rheumatoid arthritis and its role in the regulation of cytokine production in rheumatoid synovium. Isomäki P, et al. **J Immunol** 1997 Sep 15; 159(6):2986–93

Defective TCR–mediated signaling in synovial T cells in rheumatoid arthritis. Maurice MM, et al. **J Immunol** 1997 Sep 15;159(6):2973–8

Evidence for the role of an altered redox state in hyporesponsiveness of synovial T cells in rheumatoid arthritis. Maurice MM, et al. **J Immunol** 1997 Feb 1; 158(3):1458–65

T cell receptor of Fas–sensitive T cells in rheumatoid synovium. Sumida T, et al. **J Immunol** 1997 Feb 15; 158(4):1965–70

Accelerated collagen–induced arthritis in IFN–gamma receptor–deficient mice. Vermeire K, et al. **J Immunol** 1997 Jun 1;158(11):5507–13

Critical residues on HLA–DRB1*0402 HV3 peptide for HLA–DQ8–restricted immunogenicity: implications for rheumatoid arthritis predisposition. Zanelli E, et al. **J Immunol** 1997 Apr 1;158(7):3545–51

Effects of the neuropeptide, substance P, on lymphocyte proliferation in rheumatoid arthritis. Covas MJ, et al. **J Int Med Res** 1995 Nov–Dec;23(6):431–8

Unexpected HLA haplotype sharing in dizygotic twin pairs discordant for rheumatoid arthritis. Jawaheer D, et al. **J Med Genet** 1996 Dec;33(12):1015–8

The role of cytokines in rheumatoid arthritis. The Croonian Lecture 1995. Maini RN. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):344–51 (44 ref.)

IgA rheumatoid factor correlates with changes in B and T lymphocyte subsets and disease manifestations in rheumatoid arthritis. Arinbjarnarson S, et al. **J Rheumatol** 1997 Feb;24(2):269–74

Analysis of T cell receptor gamma transcripts in right and left knee synovial fluids of patients with rheumatoid arthritis. Doherty PJ, et al. **J Rheumatol** 1996 Jul; 23(7):1143–50

The Dunlop–Dottridge Lecture: prognosis in inflammatory arthritis: the value of HLA genotyping and the oncological analogy. Emery P. **J Rheumatol** 1997 Jul;24(7):1436–42

Expression of N–acetyl–D–galactosamine associated epitope in synovium: a potential marker of glycoprotein production. El–Gabalawy H, et al. **J Rheumatol** 1997 Jul; 24(7):1355–63

Effects of tenidap and nonsteroidal antiinflammatory drugs on the response of cultured human T cells to interleukin 2 in rheumatoid arthritis. Hall VC, et al. **J Rheumatol** 1997 Aug;24(8):1467–70

Novel mechanisms of selective apoptosis in synovial T cells of patients with rheumatoid arthritis. Hoa TT, et al. **J Rheumatol** 1996 Aug;23(8):1332–7

Continuous progression of radiological destruction in seropositive rheumatoid arthritis. Kaarela K, et al. **J Rheumatol** 1997 Jul;24(7):1285–7

B lymphocytic clonal expansion in rheumatoid arthritis. Mcgee B, et al. **J Rheumatol** 1996 Jan;23(1):36–43

Increased population of high fluorescence 1F7 (CD26) antigen on T cells in synovial fluid of patients with rheumatoid arthritis. Mizokami A, et al. **J Rheumatol** 1996 Dec;23(12):2022–6

Role of HLA–DR–DR and DR–DQ associations in the expression of extraarticular manifestations and rheumatoid factor in rheumatoid arthritis. Perdriger A, et al. **J Rheumatol** 1997 Jul;24(7):1272–6

Evidence for reduced Th1 function in normal pregnancy: a hypothesis for the remission of rheumatoid arthritis. Russell AS, et al. **J Rheumatol** 1997 Jun;24(6):1045–50

Suppression of in vitro IgM rheumatoid factor production by diphtheria toxin interleukin 2 recombinant fusion protein (DAB 486IL–2) in patients with refractory rheumatoid arthritis. Schrohenloher RE, et al. **J Rheumatol** 1996 Nov; 23(11):1845–8

Elevation in anti–Proteus antibodies in patients with rheumatoid arthritis from Bermuda and England. Subair H, et al. **J Rheumatol** 1995 Oct;22(10):1825–8

Synoviocyte proliferation in joints of SCID mice induced by toxic shock syndrome toxin–1 stimulated T cells from patient with rheumatoid arthritis. Suzuki T, et al. **J Rheumatol** 1997 Jun;24(6):1115–21

Routine measurement of IgM, IgG, and IgA rheumatoid factors: high sensitivity, specificity, and predictive value for rheumatoid arthritis. Swedler W, et al. **J Rheumatol** 1997 Jun;24(6):1037–44

Antibodies to Klebsiella, Proteus, and HLA–B27 peptides in Japanese patients with ankylosing spondylitis and rheumatoid arthritis. Tani Y, et al. **J Rheumatol** 1997 Jan; 24(1):109–14

Enhanced expression of CD14 antigen on myeloid lineage cells derived from the bone marrow of patients with severe rheumatoid arthritis. Tomita T, et al. **J Rheumatol** 1997 Mar;24(3):465–9

HLA–DRB1, DQA1, and DQB1 genotypes and risk of vasculitis in patients with rheumatoid arthritis. Voskuyl AE, et al. **J Rheumatol** 1997 May;24(5):852–5

Prognostic implications of HLA genotyping in the early assessment of patients with rheumatoid arthritis. Nepom GT, et al. **J Rheumatol Suppl** 1996 Mar;44:5–9 (36 ref.)

Acute phase response in rheumatoid arthritis patients treated with immunosuppressive drugs. Lacki JK, et al. **Mater Med Pol** 1995 Apr–Jun;27(2):47–51

Effects of progressive resistance training on immune response in aging and chronic inflammation. Rall LC, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1356–65

Ezrin, radixin and moesin are possible auto–immune antigens in rheumatoid arthritis. Wagatsuma M, et al. **Mol Immunol** 1996 Oct;33(15):1171–6

Normal human epidermal keratinocytes express in vitro specific molecular forms of (pro)filaggrin recognized by rheumatoid arthritis–associated antifilaggrin autoantibodies. Girbal–Neuhauser E, et al. **Mol Med** 1997 Feb;3(2):145–56

Multiple mechanisms support oligoclonal T cell expansion in rheumatoid synovitis. Rittner HL, et al. **Mol Med** 1997 Jul;3(7):452–65

The repertoire of CD4+ CD28– T cells in rheumatoid arthritis. Schmidt D, et al. **Mol Med** 1996 Sep;2(5):608–18

Unconventional T–cell activation by IL–15 in rheumatoid arthritis [news; comment] Carson DA. **Nat Med** 1997 Feb; 3(2):148–9 (8 ref.). Comment on: Nat Med 1997 Feb;3(2):189–95.

Interleukin–15 mediates T cell–dependent regulation of tumor necrosis factor–alpha production in rheumatoid arthritis [see comments] McInnes IB, et al. **Nat Med** 1997

Feb;3(2):189–95. Comment in: Nat Med 1997 Feb;3(2):148–9.

Influence of the rheumatoid arthritis–associated shared epitope on T–cell receptor repertoire formation. Kohsaka H, et al. **Proc Assoc Am Physicians** 1996 Jul;108(4):323–8

In vivo gene expression of type 1 and type 2 cytokines in synovial tissues from patients in early stages of rheumatoid, reactive, and undifferentiated arthritis. Kotake S, et al. **Proc Assoc Am Physicians** 1997 May;109(3):286–301

HLA–DR4, 70 kD heat shock proteins, and rheumatoid arthritis [editorial] Auger I, et al. **Rev Rhum Engl Ed** 1997 Mar;64(3):141–4

Antibody to factor VIII in rheumatoid arthritis [letter] Bonnet C, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):871–3 (10 ref.)

Felty's syndrome, pseudo–felty's syndrome, monoclonal or polyclonal CD3 lymphocytosis of undetermined significance. Masson C, et al. **Rev Rhum Engl Ed** 1996 Jan; 63(1):5–8 (32 ref.)

Polyarthritis with perinuclear antineutrophil cytoplasmic antibody inaugurating microscopic polyangiitis. Report of a case. Pizzuti P, et al. **Rev Rhum Engl Ed** 1997 May; 64(5):342–4

Adult seronegative arthritis with antinuclear antibodies: a distinct group of patients with a different immunogenetic pattern from seropositive rheumatoid arthritis and a good outcome. Saudan–Kister A, et al. **Rev Rhum Engl Ed** 1996 May;63(5):313–20

Antiperinuclear factor: a useful test for the diagnosis of rheumatoid arthritis. Muñoz–Fernández S, et al. **Rheumatol Int** 1995;15(4):145–9

Flow cytometric characterisation of the "false naive" (CD45RA+, CD45RO–, CD29 bright+) peripheral blood T–lymphocytes in health and in rheumatoid arthritis. Neidhart M, et al. **Rheumatol Int** 1996;16(2):77–87

Antibody responses to gut bacteria in ankylosing spondylitis, rheumatoid arthritis, Crohn's disease and ulcerative colitis. Tiwana H, et al. **Rheumatol Int** 1997;17(1):11–6

Functional analysis of synovial fluid and peripheral blood T cells from patients with rheumatoid arthritis. van den Broek M, et al. **Rheumatol Int** 1995;15(4):137–43

Analysis of bcl–2+ lymphocyte subpopulations in inflammatory synovial infiltrates by a double–immunostaining technique. Zdichavsky M, et al. **Rheumatol Int** 1996;16(4):151–7

Binding specificities of a polyreactive and a monoreactive human monoclonal IgG rheumatoid factor: role of oligosaccharides. al–Balaghi S, et al. **Scand J Immunol** 1996 Nov;44(5):470–7

CD44 expression by leucocytes in rheumatoid arthritis and modulation by specific antibody: implications for lymphocyte adhesion to endothelial cells and synoviocytes in vitro. Brennan FR, et al. **Scand J Immunol** 1997 Feb; 45(2):213–20

Neurohumoral mechanisms in rheumatoid arthritis [editorial] Baerwald CG, et al. **Scand J Rheumatol** 1997;26(1):1–3

T cell receptor (V beta) bias in the response of rheumatoid arthritis synovial fluid T cells to connective tissue antigens. Cuesta IA, et al. **Scand J Rheumatol** 1997;26(3):166–73

HLA–B27 in French patients with rheumatoid arthritis. Saraux A, et al. **Scand J Rheumatol** 1997;26(4):269–71

Interleukin–2 is found in the synovium of psoriatic arthritis and spondyloarthritis, not in rheumatoid arthritis. Wong WM, et al. **Scand J Rheumatol** 1996;25(4):239–45

Attacking arthritis. New treatments seek to rebalance the immune system. Nemecek S. **Sci Am** 1997 Jun;276(6):41

Total joint arthroplasty and the immune response. Toumbis CA, et al. **Semin Arthritis Rheum** 1997 Aug;27(1):44–7 (47 ref.)

B–cell activation and development within chronically inflamed synovium in rheumatoid and reactive arthritis. Berek C, et al. **Semin Immunol** 1997 Aug;9(4):261–8 (38 ref.)

Dominant clones in immortalized T–cell lines from rheumatoid arthritis synovial membranes. Saadawi AM, et al. **Tissue Antigens** 1997 May;49(5):431–7

Leflunomide, a novel immunomodulating drug, inhibits homotypic adhesion of mononuclear cells in rheumatoid arthritis. Dimitrijevic M, et al. **Transplant Proc** 1996 Dec; 28(6):3086–7

HLA–D region genes and susceptibility to rheumatoid arthritis. Singal DP, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1126

[Possible effect of hormones on immune and inflammatory processes in female patients with chronic polyarthritis] Kullich W, et al. **Acta Med Austriaca** 1996;23(4):119–23 (Eng. Abstr.) **(Ger)**

[Pathogenesis of rheumatoid arthritis. Involvement of the humoral immune system—memory lymphocytes in synovial membranes] Gause–Pfreundschuh A. **Fortschr Med** 1996 Sep 30;114(27):342 **(Ger)**

[Pathogenesis of rheumatoid arthritis] Geiler T, et al. **Med Klin** 1997 Jun 15;92(6):347–53 (85 ref.) (Eng. Abstr.) **(Ger)**

[Connections between antigen presenting cells (synovial dendritic cells) and various histologic types of synovial membrane in rheumatoid arthritis] Becker R, et al. **Verh Dtsch Ges Pathol** 1996;80:328 **(Ger)**

[Intra–articular B–cells in the pathogenesis of rheumatoid arthritis] Krenn V, et al. **Verh Dtsch Ges Pathol** 1996; 80:58–66 (35 ref.) (Eng. Abstr.) **(Ger)**

[Proliferation of T–cells, macrophages, neutrophilic granulocytes and fibroblast–like cells in the synovial membrane of patients with rheumatoid arthritis] Schaser K, et al. **Verh Dtsch Ges Pathol** 1996;80:276–80 (Eng. Abstr.) **(Ger)**

[Quantification of macrophages and granulocytes at the joint cartilage–pannus junction in rheumatoid arthritis] Hansch A, et al. **Z Rheumatol** 1996 Nov–Dec;55(6):401–9 (Eng. Abstr.) **(Ger)**

[Analysis of T–cell repertory in peripheral blood of patients with autoimmune disease] Kamisaka H, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):652 **(Jpn)**

[Analysis of T–cell receptor repertoire in lesions of patients with autoimmune diseases] Kato T, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):651 **(Jpn)**

[Relationship between HLA–DRB1 genotypes and efficacy of oral type II collagen treatment using chicken cartilage soup in rheumatoid arthritis] Toda Y, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Feb;20(1):44–51 (Eng. Abstr.) **(Jpn)**

[Clinical and immunological study of airway disease in collagen vascular disease] Hayakawa H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:264–7 (Eng. Abstr.) **(Jpn)**

[Role of adhesion molecules on autoimmune disease] Eguchi K, et al. **Rinsho Byori** 1996 Sep;Suppl 102:181–90 (22 ref.) **(Jpn)**

[Clinical and immunological effects of leukapheresis therapy using cotton–wool filter for patients with rheumatoid arthritis] Takeda M. **Ryumachi** 1996 Jun;36(3):493–502 (Eng. Abstr.) **(Jpn)**

[Rapidly progressive glomerulonephritis associated with myeloperoxidase specific–antineutrophil cytoplasmic antibody in patients with rheumatoid arthritis : report of three cases] Yoshihara R, et al. **Ryumachi** 1996 Oct; 36(5):762–8 (Eng. Abstr.) **(Jpn)**

[An unusual case of Kartagener's syndrome associated with rheumatoid arthritis] Porawska W, et al. **Pol Arch Med Wewn** 1996 Dec;96(6):577–80 (13 ref.) (Eng. Abstr.) **(Pol)**

[Etiopathogenesis of rheumatoid arthritis] Wisłowska M. **Przegl Lek** 1996;53(10):755–60 (34 ref.) (Eng. Abstr.) **(Pol)**

[Antineutrophil cytoplasmic antibodies in patients with rheumatoid arthritis: prevalence and clinical correlation (letter)] Clerig U, et al. **Med Clin (Barc)** 1997 Jan 18; 108(2):79 **(Spa)**

METABOLISM

Apoptosis in rheumatoid arthritis: p53 overexpression in rheumatoid arthritis synovium. Firestein GS, et al. **Am J Pathol** 1996 Dec;149(6):2143–51

Hydroxyl radical generation by rheumatoid blood and knee joint synovial fluid. Kaur H, et al. **Ann Rheum Dis** 1996 Dec;55(12):915–20

Cartilage and bone macromolecules in knee joint synovial fluid in rheumatoid arthritis: relation to development of knee or hip joint destruction. Månsson B, et al. **Ann Rheum Dis** 1997 Feb;56(2):91–6

Thrombin receptor expression in rheumatoid and osteoarthritic synovial tissue. Morris R, et al. **Ann Rheum Dis** 1996 Nov;55(11):841–3

Glutathione reductase activity, riboflavin status, and disease activity in rheumatoid arthritis. Mulherin DM, et al. **Ann Rheum Dis** 1996 Nov;55(11):837–40

Increased expression of integrins on fibroblast–like synoviocytes from rheumatoid arthritis in vitro correlates with enhanced binding to extracellular matrix proteins. Rinaldi N, et al. **Ann Rheum Dis** 1997 Jan;56(1):45–51

Direct evidence of high DNA binding activity of transcription factor AP–1 in rheumatoid arthritis synovium. Asahara H, et al. **Arthritis Rheum** 1997 May;40(5):912–8

Deficient Fas ligand expression by synovial lymphocytes from patients with rheumatoid arthritis. Cantwell MJ, et al. **Arthritis Rheum** 1997 Sep;40(9):1644–52

Accumulation of soluble Fas in inflamed joints of patients with rheumatoid arthritis. Hasunuma T, et al. **Arthritis Rheum** 1997 Jan;40(1):80–6

Nitric oxide as S–nitrosoproteins in rheumatoid arthritis. Hilliquin P, et al. **Arthritis Rheum** 1997 Aug;40(8):1512–7

Collagenase–3 (matrix metalloprotease 13) is preferentially localized in the deep layer of human arthritic cartilage in situ: in vitro mimicking effect by transforming growth factor beta. Moldovan F, et al. **Arthritis Rheum** 1997 Sep; 40(9):1653–61

Abnormal homocysteine metabolism in rheumatoid arthritis. Roubenoff R, et al. **Arthritis Rheum** 1997 Apr;40(4):718–22

Elevated cytokine messenger RNA levels in the peripheral blood of patients with rheumatoid arthritis suggest different degrees of myeloid cell activation. Schulze–Koops H, et al. **Arthritis Rheum** 1997 Apr;40(4):639–47

Transcriptional regulation of the HOX4C gene by basic fibroblast growth factor on rheumatoid synovial fibroblasts. Xue C, et al. **Arthritis Rheum** 1997 Sep;40(9):1628–35

Effects of pulse methylprednisolone on cell adhesion molecules in the synovial membrane in rheumatoid arthritis. Reduced E–selectin and intercellular adhesion molecule 1 expression. Youssef PP, et al. **Arthritis Rheum** 1996 Dec; 39(12):1970–9

Interleukin–4 stimulates rheumatoid synovial fibroblasts to express matrix metalloproteinase–1 (tissue collagenase) and histamine H1 receptor mRNA. Zenmyo M, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1253–60

Lipid peroxidative markers of inflammation in synovial fluid from rheumatoid patients. Maffei Facino F, et al. **Boll Chim Farm** 1997 Apr;136(4):351–5

Differential expression of IL–1 and TNF receptors in inflammatory arthritis and osteoarthritis. Ruggeri R, et al. **Boll Soc Ital Biol Sper** 1996 Jan–Feb;72(1–2):15–20

Effects of food and antacid on the pharmacokinetics of single doses of mycophenolate mofetil in rheumatoid arthritis patients. Bullingham R, et al. **Br J Clin Pharmacol** 1996 Jun;41(6):513–6

The influence of renal function on the enantioselective pharmacokinetics and pharmacodynamics of ketoprofen in patients with rheumatoid arthritis. Hayball PJ, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):185–93

Lack of interaction between flucloxacillin and methotrexate in patients with rheumatoid arthritis. Herrick AL, et al. **Br J Clin Pharmacol** 1996 Mar;41(3):223–7

The effect of sulphasalazine on neutrophil superoxide generation in rheumatoid arthritis. Bradley SM, et al. **Br J Rheumatol** 1997 May;36(5):530–4

Testosterone metabolism and cyclosporin A treatment in rheumatoid arthritis. Cutolo M, et al. **Br J Rheumatol** 1997 Apr;36(4):433–9

Immunolocalization of inducible nitric oxide synthase in synovium and cartilage in rheumatoid arthritis and osteoarthritis. Grabowski PS, et al. **Br J Rheumatol** 1997 Jun;36(6):651–5

Symmetrical synovial fluid cell cytokine messenger RNA expression in rheumatoid arthritis: analysis by reverse transcription/polymerase chain reaction. Hoy MD, et al. **Br J Rheumatol** 1997 Feb;36(2):170–3

Expression of bcl–2 in rheumatoid arthritis. Isomäki P, et al. **Br J Rheumatol** 1996 Jul;35(7):611–9

Parathyroid hormone–related peptide in synovial fluid and disease activity of rheumatoid arthritis. Okano K, et al. **Br J Rheumatol** 1996 Nov;35(11):1056–62

The relevance of chondroitin and keratan sulphate markers in normal and arthritic synovial fluid. Sharif M, et al. **Br J Rheumatol** 1996 Oct;35(10):951–7

IL–1 modifies system A transport activity in human rheumatoid synovial cells. Le Maire V, et al. **Cell Biol Int** 1997 Jul;21(7):455–60

Restricted expression of Fc gammaRIII (CD16) in synovium and dermis: implications for tissue targeting in rheumatoid arthritis (RA). Edwards JC, et al. **Clin Exp Immunol** 1997 Jun;108(3):401–6

Mononuclear cell retention in rheumatoid synovial tissue engrafted in severe combined immunodeficient (SCID) mice is up–regulated by tumour necrosis factor–alpha (TNF–alpha) and mediated through intercellular adhesion molecule–1 (ICAM–1). Jorgensen C, et al. **Clin Exp Immunol** 1996 Oct;106(1):20–5

Persistent reduction in IL–6 mRNA in peripheral blood mononuclear cells of patients with rheumatoid arthritis after treatment with a monoclonal antibody to CD54 (ICAM–1). Schulze–Koops H, et al. **Clin Exp Immunol** 1996 Nov;106(2):190–6

IgG glycosylation in association with tropical infections and rheumatoid arthritis in the tropics. Adebajo AO, et al. **Clin Exp Rheumatol** 1995 Nov–Dec;13(6):737–40

Kinetics of prolactin release in rheumatoid arthritis. Jorgensen C, et al. **Clin Exp Rheumatol** 1995 Nov–Dec; 13(6):705–9

Oxidative burst of neutrophils in patients with rheumatoid arthritis: influence of various cytokines and medication. Mur E, et al. **Clin Exp Rheumatol** 1997 May–Jun; 15(3):233–7

Effect of treatment with methotrexate, hydroxychloroquine, and prednisone on lymphocyte polyamine levels in rheumatoid arthritis: correlation with the clinical response and rheumatoid factor synthesis. Nesher G, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):343–7

Different cytokine profiles in the synovial fluid of patients with osteoarthritis, rheumatoid arthritis and seronegative spondylarthropathies. Schlaak JF, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):155–62

Correlation between the appearance of gelatinases in the synovial fluid of patients with rheumatoid arthritis and polymorphonuclear elastase, stromelysin–1, and the tissue inhibitor of metalloproteinase–1. Watanabe Y, et al. **Clin Exp Rheumatol** 1997 May–Jun;15(3):255–61

Molecular basis of rheumatoid joint destruction: analogies to the pathogenesis of autoimmunity in diabetes. Gay S, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:131–5 (34 ref.)

Cell adhesion molecules in rheumatoid arthritis. Veale DJ, et al. **Drugs Aging** 1996 Aug;9(2):87–92 (36 ref.)

Characterization of human serum amyloid A protein isoforms separated by two–dimensional electrophoresis by liquid chromatography/electrospray ionization tandem mass spectrometry. Ducret A, et al. **Electrophoresis** 1996 May; 17(5):866–76

Differential changes of corticotropin releasing hormone (CRH) concentrations in plasma and synovial fluids of patients with rheumatoid arthritis (RA). Nishioka T, et al. **Endocr J** 1996 Apr;43(2):241–7

A limited sampling method to estimate methotrexate pharmacokinetics in patients with rheumatoid arthritis using a Bayesian approach and the population data modeling program P–PHARM. Bressolle F, et al.

Eur J Clin Pharmacol 1996;49(4):285–92

Expression of arachidonate platelet–type 12–lipoxygenase in human rheumatoid arthritis type B synoviocytes. Liagre B, et al. **FEBS Lett** 1997 Sep 1;414(1):159–64

A modified form of low–density lipoprotein with increased electronegative charge is present in rheumatoid arthritis synovial fluid. Dai L, et al. **Free Radic Biol Med** 1997; 22(4):705–10

Analysis of human 65 kD heat shock protein mRNA using polymerase chain reaction in synovia of rheumatoid arthritis patients. Kodama E, et al.
Fukushima J Med Sci 1995 Dec;41(2):95–102

Do synovial fluid acute phase proteins from patients with rheumatoid arthritis originate from serum? Havenaar EC, et al. **Glycoconj J** 1997 Jun;14(4):457–65

Quantification of hemostatic proteins and activation products in synovial fluids from arthritic joints prior to and after induction of chemical synoviorthesis. Römisch J, et al. **Haemostasis** 1996 May–Jun;26(3):170–7

Increase in the expression of alpha E beta 7, characteristic of intestinal intraepithelial lymphocytes, on T cells in the lung epithelium of patients with interstitial lung diseases and in synovial fluid of patients with rheumatic diseases. Baumgart M, et al. **Immunobiology** 1996;196(4):415–24

Effect of a CC chemokine receptor antagonist on collagen induced arthritis in DBA/1 mice. Plater–Zyberk C, et al. **Immunol Lett** 1997 Jun 1;57(1–3):117–20

A multistep molecular mimicry hypothesis for the pathogenesis of rheumatoid arthritis. Albani S, et al. **Immunol Today** 1996 Oct;17(10):466–70 (52 ref.)

Immunolocalisation of the kinin moiety and bradykinin (B2) receptors on synovial fluid neutrophils in rheumatoid arthritis. Cassim B, et al. **Immunopharmacology** 1996 Jun; 33(1–3):321–4

Induction of cytokines and ICAM–1 by proinflammatory cytokines in primary rheumatoid synovial fibroblasts and inhibition by N–acetyl–L–cysteine and aspirin. Sakurada S, et al. **Int Immunol** 1996 Oct;8(10):1483–93

Up–regulation of the alpha2–macroglobulin signaling receptor on rheumatoid synovial fibroblasts. Misra UK, et al. **J Biol Chem** 1997 Jan 3;272(1):497–502

Manipulation of distinct NFkappaB proteins alters interleukin–1beta–induced human rheumatoid synovial fibroblast prostaglandin E2 formation. Roshak AK, et al. **J Biol Chem** 1996 Dec 6;271(49):31496–501

Synovial fluids from patients with osteoarthritis and rheumatoid arthritis contain high levels of parathyroid hormone–related peptide. Kohno H, et al.
J Bone Miner Res 1997 May;12(5):847–54

Tumor necrosis factor priming of peripheral blood neutrophils from rheumatoid arthritis patients. Kowanko IC, et al. **J Clin Immunol** 1996 Jul;16(4):216–21

Aggrecan degradation in human cartilage. Evidence for both matrix metalloproteinase and aggrecanase activity in normal, osteoarthritic, and rheumatoid joints. Lark MW, et al. **J Clin Invest** 1997 Jul 1;100(1):93–106

Detection of p53 in inflammatory tissue and lymphocytes using immunohistology and flow cytometry: a critical comment. Nickels A, et al. **J Clin Pathol** 1997 Aug; 50(8):654–60

Differential expression of the urokinase receptor (CD87) in arthritic and normal synovial tissues. Szekanecz Z, et al. **J Clin Pathol** 1997 Apr;50(4):314–9

Production of nitric oxide in the synovial membrane of rheumatoid and osteoarthritis patients. McInnes IB, et al. **J Exp Med** 1996 Oct 1;184(4):1519–24

ICAM–1/LFA–1 expression in acute osteodestructive joint lesions in collagen–induced arthritis in rats. Seidel MF, et al. **J Histochem Cytochem** 1997 Sep;45(9):1247–53

In patients with rheumatoid arthritis IgG binding to denatured collagen type II is in part mediated by IgG–fibronectin complexes. Mannik M, et al.
J Immunol 1997 Feb 1;158(3):1446–52

T cell receptor of Fas–sensitive T cells in rheumatoid synovium. Sumida T, et al. **J Immunol** 1997 Feb 15; 158(4):1965–70

Cytokine expression and networks in rheumatoid arthritis: rationale for anti–TNF alpha antibody therapy and its mechanism of action. Feldmann M, et al. **J Inflamm** 1995–96;47(1–2):90–6 (32 ref.)

Analysis of autoantibodies to plasminogen in the serum of patients with rheumatoid arthritis. Gonzalez–Gronow M, et al. **J Mol Med** 1996 Aug;74(8):463–9

Molecular abnormalities of human plasminogen isolated from synovial fluid of rheumatoid arthritis patients. Shearin TV, et al. **J Mol Med** 1997 May;75(5):378–85

Increased degradation and altered tissue distribution of cartilage oligomeric matrix protein in human rheumatoid and osteoarthritic cartilage. Di Cesare PE, et al.
J Orthop Res 1996 Nov;14(6):946–55

The role of monocyte chemoattractant protein–1 (MCP–1) in the pathogenesis of collagen–induced arthritis in rats. Ogata H, et al. **J Pathol** 1997 May;182(1):106–14

Increased expression of IL–15 in the synovium of patients with rheumatoid arthritis compared with patients with Yersinia–induced arthritis and osteoarthritis. Thurkow EW, et al. **J Pathol** 1997 Apr;181(4):444–50

Glycobiology and medicine: an introduction. Axford J.
J R Soc Med 1997 May;90(5):260–4 (53 ref.)

Presence of ED–A containing fibronectin in human articular cartilage from patients with osteoarthritis and rheumatoid arthritis. Chevalier X, et al. **J Rheumatol** 1996 Jun; 23(6):1022–30

The acute phase and function in early rheumatoid arthritis. C–reactive protein levels correlate with functional outcome. Devlin J, et al. **J Rheumatol** 1997 Jan;24(1):9–13

Lack of interaction between bromfenac and methotrexate in patients with rheumatoid arthritis. Gumbhir–Shah K, et al. **J Rheumatol** 1996 Jun;23(6):984–9

Synovial fluid from patients with rheumatoid arthritis contains a unique inhibitor of interleukin 1 alpha. Higgins GC, et al. **J Rheumatol** 1996 Jun;23(6):965–73

Determination of stromelysin–1, 72 and 92 kDa type IV collagenase, tissue inhibitor of metalloproteinase–1 (TIMP–1), and TIMP–2 in synovial fluid and serum from patients with rheumatoid arthritis. Ishiguro N, et al.
J Rheumatol 1996 Sep;23(9):1599–604

Elevated levels of inflammatory cytokines in bone marrow of patients with rheumatoid arthritis and anemia of chronic disease. Jongen–Lavrencic M, et al. **J Rheumatol** 1997 Aug; 24(8):1504–9

Rheumatoid arthritis exhibits reduced acute phase and enhanced constitutive serum amyloid A protein in synovial fluid relative to serum. A comparison with C–reactive protein. Kumon Y, et al. **J Rheumatol** 1997 Jan;24(1):14–9

The diagnosis of iron deficiency in patients with rheumatoid arthritis and anemia: an algorithm using simple laboratory measures [see comments] Mulherin D, et al.
J Rheumatol 1996 Feb;23(2):237–40. Comment in: J Rheumatol 1997 Apr;24(4):804–5.

Zinc metabolism in rheumatoid arthritis: plasma and urinary zinc and relationship to disease activity [see comments] Naveh Y, et al. **J Rheumatol** 1997 Apr;24(4):643–6. Comment in: J Rheumatol 1997 Apr;24(4):626–8.

Thrombin in the synovial fluid of patients with rheumatoid arthritis mediates proliferation of synovial fibroblast–like cells by induction of platelet derived growth factor. Ohba T, et al. **J Rheumatol** 1996 Sep;23(9):1505–11

Altered integrin expression in rheumatoid synovial lining type B cells: in vitro cytokine regulation of alpha 1 beta 1, alpha 6 beta 1, and alpha v beta 5 integrins. Pirilä L, et al. **J Rheumatol** 1996 Oct;23(10):1691–8

Induction of TNF–alpha and proinflammatory secretory phospholipase A2 by intravenous administration of CAMPATH–1H in patients with rheumatoid arthritis. Pruzanski W, et al. **J Rheumatol** 1995 Oct;22(10):1816–9

Expression of heat shock protein on lymphocytes in peripheral blood and synovial fluid from patients with rheumatoid arthritis. Sato H, et al. **J Rheumatol** 1996 Dec; 23(12):2027–32

A hidden immunoglobulin G2 in patients with rheumatoid arthritis detected by nuclear magnetic resonance. Tokano Y, et al. **J Rheumatol** 1997 Feb;24(2):275–81

Osteoclastogenesis in iliac bone marrow of patients with rheumatoid arthritis. Toritsuka Y, et al. **J Rheumatol** 1997 Sep;24(9):1690–6

Citrate in synovial fluid and its relation to inflammation and crystal presence. Van Linthoudt D, et al. **J Rheumatol** 1996 Mar;23(3):502–5

Laboratory markers of disease activity. Richardson C, et al. **J Rheumatol Suppl** 1996 Mar;44:23–30 (42 ref.)

Positive correlation between levels of IL–1 or IL–2 and 1,25(OH)2D/25–OH–D ratio in synovial fluid of patients with rheumatoid arthritis. Inaba M, et al. **Life Sci** 1997; 61(10):977–85

Release of mast cell mediators and nitrites into knee joint fluid in osteoarthritis––comparison with articular chondrocalcinosis and rheumatoid arthritis. Renoux M, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):175–9

Pleural fluid beta–2–microglobulin and angiotensin–converting enzyme concentrations in rheumatoid arthritis and tuberculosis. Söderblom T, et al. **Respiration** 1996;63(5):272–6

Relations between absolute number of CD4 + CD29+ memory cells and levels of interleukin–6, rheumatoid factors, and acute phase proteins in rheumatoid synovial fluid. Lacki JK, et al. **Rev Rhum Engl Ed** 1997 Mar; 64(3):160–5

An immunohistochemical and immunoelectron microscopic study of adhesion molecules in synovial pannus formation in rheumatoid arthritis. Ishikawa H, et al.
Rheumatol Int 1996;16(2):53–60

Endothelial cells are the major source of sICAM–1 in rheumatoid synovial tissue. Krenn V, et al.
Rheumatol Int 1997;17(1):17–27

Elevated levels of insulin–like growth factor (IGF) binding protein–3 in rheumatoid arthritis synovial fluid inhibit stimulation by IGF–I of articular chondrocyte proteoglycan synthesis. Neidel J, et al. **Rheumatol Int** 1997; 17(1):29–37

Cytokine mRNA repertoire of articular chondrocytes from arthritic patients, infants, and neonatal mice. Tanabe BK, et al. **Rheumatol Int** 1996;16(2):67–76

Mechanisms of oxyradical production in substance P stimulated rheumatoid synovial cells. Tanabe T, et al.
Rheumatol Int 1996;16(4):159–67

Evaluation of synovial cytokine patterns in rheumatoid arthritis and osteoarthritis by quantitative reverse transcription polymerase chain reaction. Wagner S, et al.
Rheumatol Int 1997;16(5):191–6

L–selectin expression on the surface of peripheral blood leucocytes from rheumatoid arthritis patients is linked to disease activity. Bond A, et al. **Scand J Immunol** 1997 Sep; 46(3):312–6

IgG2b inducing factor from rheumatoid arthritis synovial fluid activates antibody production in highly purified mouse B lymphocytes. Lettesjö H, et al.
Scand J Immunol 1997 Jan;45(1):43–9

IgG2b inducing factor from rheumatoid arthritis synovial fluid synergizes with transforming growth factor–beta in promoting IgG2b antibody production in mouse B lymphocytes. Lettesjö H, et al. **Scand J Immunol** 1997 Jan; 45(1):50–4

Fibrin degradation in the synovial fluid of rheumatoid arthritis patients: a model for extravascular fibrinolysis. Carmassi F, et al. **Semin Thromb Hemost** 1996;22(6):489–96 (90 ref.)

[Messenger RNA expression of alternatively spliced CS–1 fibronectin isoforms in Rheumatoid arthritis (RA) synovium] Müller–Ladner U, et al.
Verh Dtsch Ges Pathol 1996;80:329 **(Ger)**

MICROBIOLOGY

Staphylococcus aureus nasal carriage in rheumatoid arthritis: antibody response to toxic shock syndrome toxin–1. Tabarya D, et al. **Ann Rheum Dis** 1996 Nov;55(11):822–8

Lack of evidence of mycobacteria in synovial tissue from patients with rheumatoid arthritis. Pras E, et al.
Arthritis Rheum 1996 Dec;39(12):2080–1

Faecal microbial flora and disease activity in rheumatoid arthritis during a vegan diet. Peltonen R, et al.
Br J Rheumatol 1997 Jan;36(1):64–8

Levels of serum IgG against Porphyromonas gingivalis in patients with rapidly progressive periodontitis, rheumatoid arthritis and adult periodontitis. Yusof Z, et al.
J Nihon Univ Sch Dent 1995 Dec;37(4):197–200

Rheumatoid arthritis: failure to isolate or detect mycoplasmas [letter] Puéchal X, et al. **J Rheumatol** 1997 Jul;24(7):1445–6

Correlation between anti–Proteus antibodies and isolation rates of P. mirabilis in rheumatoid arthritis. Wilson C, et al. **Rheumatol Int** 1997;16(5):187–9

MORTALITY

Safety, efficacy, and mortality in a long–term cohort of patients with rheumatoid arthritis taking methotrexate: followup after a mean of 13.3 years. Kremer JM.
Arthritis Rheum 1997 May;40(5):984–5

Decreased survival in patients with co–existent rheumatoid arthritis and bronchiectasis. Swinson DR, et al.
Br J Rheumatol 1997 Jun;36(6):689–91

Death attributed to antirheumatic medication in a nationwide series of 1666 patients with rheumatoid arthritis who have died [see comments] Myllykangas–Luosujärvi R, et al.
J Rheumatol 1995 Dec;22(12):2214–7. Comment in: J Rheumatol 1995 Dec;22(12):2200–2.

Cardiovascular mortality in rheumatoid arthritis: how harmful are corticosteroids? [editorial; comment] Raynauld JP. **J Rheumatol** 1997 Mar;24(3):415–6. Comment on: J Rheumatol 1997 Mar;24(3):445–51.

Excess mortality in rheumatoid arthritis––is it the disease or the drugs? [editorial; comment] Symmons D.
J Rheumatol 1995 Dec;22(12):2200–2. Comment on: J Rheumatol 1995 Dec;22(12):2214–7.

Cardiovascular morbidity and mortality in patients with seropositive rheumatoid arthritis in Northern Sweden. Wallberg–Jonsson S, et al. **J Rheumatol** 1997 Mar; 24(3):445–51

[Medical treatment in rheumatoid arthritis and mortality (editorial)] Isomäki H, et al. **Duodecim** 1995;111(13):1185–6 **(Fin)**

[Rheumatoid arthritis shortens life] Myllykangas–Luosujärvi R, et al. **Duodecim** 1995;111(13):1209–15 **(Fin)**

PATHOLOGY

Muscle fiber changes of the vastus medialis in rheumatoid patients. Touno M, et al. **Acta Med Okayama** 1996 Jun; 50(3):157–64

Cytokine expression and cell activation in inflammatory arthritis. Ivashkiv LB. **Adv Immunol** 1996;63:337–76 (190 ref.)

Synovial fibroblasts of patients with rheumatoid arthritis attach to and invade normal human cartilage when engrafted into SCID mice. Müller–Ladner U, et al.
Am J Pathol 1996 Nov;149(5):1607–15

Pristane–induced arthritis in rats: a new model for rheumatoid arthritis with a chronic disease course influenced by both major histocompatibility complex and non–major histocompatibility complex genes. Vingsbo C, et al. **Am J Pathol** 1996 Nov;149(5):1675–83

Pannocytes: distinctive cells found in rheumatoid arthritis articular cartilage erosions. Zvaifler NJ, et al.
Am J Pathol 1997 Mar;150(3):1125–38

Cellular distribution of bronchus–associated lymphoid tissue in rheumatoid arthritis. Sato A, et al.
Am J Respir Crit Care Med 1996 Dec;154(6 Pt 1):1903–7

Immunohistochemical analysis of an equine model of synovitis–induced arthritis [published erratum appears in Am J Vet Res 1996 Aug;57(8):1249] Todhunter PG, et al.
Am J Vet Res 1996 Jul;57(7):1080–93

Quantitative magnetic resonance imaging of the knee: a method of measuring response to intra–articular treatments. Creamer P, et al. **Ann Rheum Dis** 1997 Jun;56(6):378–81

Human osteoclast formation and bone resorption by monocytes and synovial macrophages in rheumatoid arthritis. Fujikawa Y, et al. **Ann Rheum Dis** 1996 Nov;

55(11):816–22

Observations on the microenvironmental nature of cartilage degradation in rheumatoid arthritis. Woolley DE, et al. **Ann Rheum Dis** 1997 Mar;56(3):151–61 (57 ref.)

Characterisation of fibroblast-like cells in pannus lesions of patients with rheumatoid arthritis sharing properties of fibroblasts and chondrocytes. Xue C, et al. **Ann Rheum Dis** 1997 Apr;56(4):262–7

Immunohistochemical characterization of the cellular infiltrates in Sjögren's syndrome, rheumatoid arthritis and osteoarthritis with special reference to calprotectin-producing cells. Cuida M, et al. **APMIS** 1996 Dec;104(12):881–90

CD70 (CD27 ligand) expression by synovial fluid CD4+ T lymphocytes in rheumatoid arthritis: comment on the article by Kohem et al [letter; comment] Brugnoni D, et al. **Arthritis Rheum** 1997 Jun;40(6):1186–8. Comment on: Arthritis Rheum 1996 May;39(5):844–54.

Clonal expansion of mycobacterial heat-shock protein-reactive T lymphocytes in the synovial fluid and blood of rheumatoid arthritis patients. Celis L, et al. **Arthritis Rheum** 1997 Mar;40(3):510–9

Involvement of nuclear factor kappa B in the regulation of cyclooxygenase-2 expression by interleukin-1 in rheumatoid synoviocytes. Crofford LJ, et al. **Arthritis Rheum** 1997 Feb;40(2):226–36

Shift toward T lymphocytes with a T helper 1 cytokine-secretion profile in the joints of patients with rheumatoid arthritis. Dolhain RJ, et al. **Arthritis Rheum** 1996 Dec;39(12):1961–9

Invasive fibroblast-like synoviocytes in rheumatoid arthritis. Passive responders or transformed aggressors? Firestein GS. **Arthritis Rheum** 1996 Nov;39(11):1781–90 (85 ref.)

Mast cell responses in rheumatoid synovium. Association of the MCTC subset with matrix turnover and clinical progression. Gotis-Graham I, et al. **Arthritis Rheum** 1997 Mar;40(3):479–89

Macrophage cathepsin L, a factor in the erosion of subchondral bone in rheumatoid arthritis. Iwata Y, et al. **Arthritis Rheum** 1997 Mar;40(3):499–509

Expansion of unusual CD4+ T cells in severe rheumatoid arthritis. Martens PB, et al. **Arthritis Rheum** 1997 Jun; 40(6):1106–14

Adenosine A1 receptor promotion of multinucleated giant cell formation by human monocytes: a mechanism for methotrexate-induced nodulosis in rheumatoid arthritis. Merrill JT, et al. **Arthritis Rheum** 1997 Jul;40(7):1308–15

Inhibition of rheumatoid synovial fibroblast proliferation by antisense oligonucleotides targeting proliferating cell nuclear antigen messenger RNA. Morita Y, et al. **Arthritis Rheum** 1997 Jul;40(7):1292–7

Selective activation of the JNK/AP-1 pathway in Fas-mediated apoptosis of rheumatoid arthritis synoviocytes. Okamoto K, et al. **Arthritis Rheum** 1997 May; 40(5):919–26

The B cell repertoire of patients with rheumatoid arthritis. II. Increased frequencies of IgG+ and IgA+ B cells specific for mycobacterial heat-shock protein 60 or human type II collagen in synovial fluid and tissue. Rudolphi U, et al. **Arthritis Rheum** 1997 Aug;40(8):1409–19

Rheumatoid arthritis synovial fibroblast and U937 macrophage/monocyte cell line interaction in cartilage degradation. Scott BB, et al. **Arthritis Rheum** 1997 Mar; 40(3):490–8

Analysis of the synovial cell infiltrate in early rheumatoid synovial tissue in relation to local disease activity. Tak PP, et al. **Arthritis Rheum** 1997 Feb;40(2):217–25

Interleukin-1beta-stimulated invasion of articular cartilage by rheumatoid synovial fibroblasts is inhibited by antibodies to specific integrin receptors and by collagenase inhibitors. Wang AZ, et al. **Arthritis Rheum** 1997 Jul;40(7):1298–307

CD8high+ (CD57+) T cells in patients with rheumatoid arthritis. Wang EC, et al. **Arthritis Rheum** 1997 Feb; 40(2):237–48

Clinical guidelines for management. Scott DL. **Baillieres Clin Rheumatol** 1997 Feb;11(1):157–79 (78 ref.)

Treatment of early rheumatoid arthritis patients with slow-acting anti-rheumatic drugs (SAARDs). van Gestel AM, et al. **Baillieres Clin Rheumatol** 1997 Feb;11(1):65–82 (33 ref.)

Tyrosine phosphorylation in neutrophils from synovial fluid of patients with rheumatoid arthritis. Lloyds D, et al. **Br J Rheumatol** 1996 Sep;35(9):846–52

Enhanced co-stimulatory ability of synovial fluid accessory cells in rheumatoid arthritis. Robertson SE, et al. **Br J Rheumatol** 1997 Apr;36(4):413–9

Histologic liver abnormalities in an autopsy series of patients with rheumatoid arthritis. Ruderman EM, et al. **Br J Rheumatol** 1997 Feb;36(2):210–3

Complement Cls, a classical enzyme with novel functions at the endochondral ossification center: immunohistochemical staining of activated Cls with a neoantigen-specific antibody. Sakiyama H, et al. **Cell Tissue Res** 1997 Jun;288(3):557–65

Characteristics of synovial fluid effusion in collagen-induced arthritis (CIA) in the DA rat; a comparison of histology and antibody reactivities in an experimental chronic arthritis model and rheumatoid arthritis (RA). Erlandsson Harris H, et al. **Clin Exp Immunol** 1997 Mar;107(3):480–4

Human monoclonal rheumatoid factors augment arthritis in mice by the activation of T cells. Ezaki I, et al. **Clin Exp Immunol** 1996 Jun;104(3):474–82

Effects of rapamycin on apoptosis of rheumatoid synovial cells. Migita K, et al. **Clin Exp Immunol** 1997 May; 108(2):199–203

Comparable histological appearance of synovitis in seropositive and seronegative rheumatoid arthritis. Fujinami M, et al. **Clin Exp Rheumatol** 1997 Jan-Feb; 15(1):11–7

Clinical, laboratory and immunogenetic aspects of arthritis associated with chronic lymphocytic thyroiditis. Punzi L, et al. **Clin Exp Rheumatol** 1997 Jul-Aug;15(4):373–80

Differential influences of gold sodium thiomalate and bucillamine on the generation of CD14+ monocyte-lineage cells from bone marrow of rheumatoid arthritis patients. Hirohata S, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):290–5

Cellular pathways of joint destruction. Müller-Ladner U, et al. **Curr Opin Rheumatol** 1997 May;9(3):213–20 (76 ref.)

Articular cartilage destruction in experimental inflammatory arthritis: insulin-like growth factor-1 regulation of proteoglycan metabolism in chondrocytes. Verschure PJ, et al. **Histochem J** 1996 Dec;28(12):835–57 (263 ref.)

Immunocytochemical identification of metallothionein-positive cells in rheumatoid synovium and analysis of their cell lineage. Winters C, et al. **Histochem J** 1997 Apr;29(4):301–7

Seeing the wood for the trees: the forgotten role of neutrophils in rheumatoid arthritis. Edwards SW, et al. **Immunol Today** 1997 Jul;18(7):320–4 (46 ref.)

Inflammatory and immunological parameters of disease activity in rheumatoid arthritis patients treated with minocycline. Kloppenburg M, et al. **Immunopharmacology** 1996 Mar;31(2–3):163–9

Characterization of a SV40-transformed rheumatoid synovial fibroblast cell line which retains genotypic expression patterns: a model for evaluation of anti-arthritic agents. Zhang HG, et al. **In Vitro Cell Dev Biol Anim** 1997 Jan; 33(1):37–41

Temporomandibular joint involvement in generalized osteoarthritis and rheumatoid arthritis: a clinical, arthroscopic, histologic, and immunohistochemical study. Gynther GW, et al. **Int J Oral Maxillofac Surg** 1997 Feb; 26(1):10–6

Interleukin-6 and soluble interleukin-6 receptors in the synovial fluids from rheumatoid arthritis patients are responsible for osteoclast-like cell formation. Kotake S, et al. **J Bone Miner Res** 1996 Jan;11(1):88–95

The palmaris longus tendon. Another variation in its anatomy. Koo CC, et al. **J Hand Surg [Br]** 1997 Feb; 22(1):138–9

Selection of T cells reactive against autologous B lymphoblastoid cells during chronic rheumatoid arthritis. David-Ameline J, et al. **J Immunol** 1996 Nov 15; 157(10):4697–706

Constitutive intra-articular expression of human IL-1 beta following gene transfer to rabbit synovium produces all major pathologies of human rheumatoid arthritis. Ghivizzani SC, et al. **J Immunol** 1997 Oct 1;159(7):3604–12

Regulation of interleukin (IL)-1beta gene transcription induced by IL-1beta in rheumatoid synovial fibroblast-like cells, E11, transformed with simian virus 40 large T antigen. Abe M, et al. **J Rheumatol** 1997 Mar;24(3):420–9

Antineutrophil cytoplasmic antibodies in synovial fluid and in serum of patients with rheumatoid arthritis and other types of synovitis. Afeltra A, et al. **J Rheumatol** 1996 Jan; 23(1):10–5

Potential pathogenicity of deglycosylated IgG cross reactive with streptokinase and fibronectin in the serum of patients with rheumatoid arthritis. Cuchacovich M, et al. **J Rheumatol** 1996 Jan;23(1):44–51

"Arthritis specific" global health analog scales assess "generic" health related quality-of-life in patients with rheumatoid arthritis. Fries JF, et al. **J Rheumatol** 1997 Sep; 24(9):1697–702

Ultrastructural demonstration of apoptosis, Fas and Bcl-2 expression of rheumatoid synovial fibroblasts. Matsumoto S, et al. **J Rheumatol** 1996 Aug;23(8):1345–52

Increased population of high fluorescence 1F7 (CD26) antigen on T cells in synovial fluid of patients with rheumatoid arthritis. Mizokami A, et al. **J Rheumatol** 1996 Dec;23(12):2022–6

Rheumatoid synovial fibroblasts are stimulated by the cellular adhesion to T cells through lymphocyte function associated antigen-1/intercellular adhesion molecule-1. Nakatsuka K, et al. **J Rheumatol** 1997 Mar;24(3):458–64

Thrombin in the synovial fluid of patients with rheumatoid arthritis mediates proliferation of synovial fibroblast-like cells by induction of platelet derived growth factor. Ohba T, et al. **J Rheumatol** 1996 Sep;23(9):1505–11

Progression of cervical spine changes in patients with early rheumatoid arthritis. Paimela L, et al. **J Rheumatol** 1997 Jul;24(7):1280–4

Rheumatoid arthritis complicated by pachy- and leptomeningeal rheumatoid nodule-like granulomas and systemic vasculitis. Kamio N, et al. **Pathol Int** 1996 Jul; 46(7):526–30

Immunocytomorphopathological studies on the pathogenesis of rheumatoid arthritis. Ciobanu A, et al. **Rom J Morphol Embryol** 1996 Jan-Jun;42(1–2):13–32

A 20-year follow-up study of subtalar changes in rheumatoid arthritis. Belt EA, et al. **Scand J Rheumatol** 1997; 26(4):266–8

Intestinal histological and ultrastructural inflammatory changes in spondyloarthropathy and rheumatoid arthritis. Porzio V, et al. **Scand J Rheumatol** 1997;26(2):92–8

Molecular mechanisms to form leukocyte infiltration patterns distinct between synovial tissue and fluid of rheumatoid arthritis. Yamamoto T, et al. **Semin Thromb Hemost** 1996; 22(6):507–11 (34 ref.)

Atlantoaxial fusion and retrodental pannus in rheumatoid arthritis. Grob D, et al. **Spine** 1997 Jul 15;22(14):1580–3; discussion 1584

[The effects of a single active ingredient (T4) of Tripterygium Wilfordii Hook on the production of tumor necrosis factor by the peripheral blood mononuclear cells and synovium cells of rheumatoid arthritis patients] Zeng X, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):138–42 (Eng. Abstr.) **(Chi)**

[The pathogenesis of joint destruction in chronic polyarthritis] Mohr W. **Radiologe** 1996 Aug;36(8):593–9 (40 ref.) (Eng. Abstr.) **(Ger)**

[Inflammatory cytokine mediated anti-anabolic effects: a potential mechanism in rheumatoid cartilage degeneration] Aigner T, et al. **Verh Dtsch Ges Pathol** 1996;80:282–7 (Eng. Abstr.) **(Ger)**

[Connections between antigen presenting cells (synovial dendritic cells) and various histologic types of synovial membrane in rheumatoid arthritis] Becker R, et al. **Verh Dtsch Ges Pathol** 1996;80:328 **(Ger)**

[Pathology and progression of intra-articular inflammation in rheumatoid arthritis] Geiler G. **Verh Dtsch Ges Pathol** 1996;80:46–57 (50 ref.) (Eng. Abstr.) **(Ger)**

[Intra-articular B-cells in the pathogenesis of rheumatoid arthritis] Krenn V, et al. **Verh Dtsch Ges Pathol** 1996; 80:58–66 (35 ref.) (Eng. Abstr.) **(Ger)**

[Proliferation of T-cells, macrophages, neutrophilic granulocytes and fibroblast-like cells in the synovial membrane of patients with rheumatoid arthritis] Schaser K, et al. **Verh Dtsch Ges Pathol** 1996;80:276–80 (Eng. Abstr.) **(Ger)**

[An autopsy case of rheumatoid arthritis associated with proliferative endarteritis died of sudden severe melaena] Yokoyama T, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Jun;19(3):179–84 (Eng. Abstr.) **(Jpn)**

[Process of articular destruction in chronic rheumatoid arthritis and its treatment with drugs] Abe T. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1583–9 (5 ref.) **(Jpn)**

[Histomorphometric study of the iliac bone in rheumatoid arthritis] Obayashi O. **Ryumachi** 1996 Aug;36(4):627–36 (Eng. Abstr.) **(Jpn)**

[A case study of immunohistochemical findings of rheumatic pseudocystic lesions in the femoral lateral condyle and tibial plateau--the comparison with synovial lesions] Suzuki K, et al. **Ryumachi** 1996 Aug;36(4):656–61 (Eng. Abstr.) **(Jpn)**

[Roentgenological and histomorphological studies of the knee joint in rheumatoid arthritis] Yokota T. **Ryumachi** 1996 Jun;36(3):503–13 (Eng. Abstr.) **(Jpn)**

[Muscular pathology in rheumatoid arthritis: a clinico-morphological study] Itkina IV, et al. **Klin Med (Mosk)** 1996;74(2):23–6 (Eng. Abstr.) **(Rus)**

[Eosinophilic gastroenteritis associated with rheumatoid arthritis. Its presentation as acute abdominal pain (letter)] Medina Pérez M, et al. **Rev Esp Enferm Dig** 1997 Feb; 89(2):143–4 **(Spa)**

PHYSIOPATHOLOGY

Experience of pain in rheumatoid arthritis--an empirical evaluation of the contribution of developmental psychosocial stress. Radanov BP, et al. **Acta Psychiatr Scand** 1996 Jun;93(6):482–8

Synovial fluid levels of proinflammatory interleukins and their inter-relationships in elderly vs younger onset rheumatoid arthritis. Punzi L, et al. **Aging (Milano)** 1996 Aug;8(4):277–81

Prospective analysis of total shoulder arthroplasty biomechanics. Friedman RJ. **Am J Orthop** 1997 Apr; 26(4):265–70

Transgenic models for arthritis: useful clues to be gained? [editorial] Brennan FM. **Ann Med** 1996 Aug;28(4):271–4 (23 ref.)

Parasympathetic dysfunction in rheumatoid arthritis patients with ocular dryness. Barendregt PJ, et al. **Ann Rheum Dis** 1996 Sep;55(9):612–5

Development of a functional scoring system for rheumatoid arthritis patients with cervical myelopathy. Casey AT, et al. **Ann Rheum Dis** 1996 Dec;55(12):901–6

Relation between heel position and the distribution of forefoot plantar pressures and skin callosities in rheumatoid arthritis. Woodburn J, et al. **Ann Rheum Dis** 1996 Nov; 55(11):806–10

Slow progression of joint damage in early rheumatoid arthritis treated with cyclosporin A or methotrexate: comment on the article by Pasero et al [letter; comment] Alarcón GS. **Arthritis Rheum** 1997 Apr;40(4):791–2. Comment on: Arthritis Rheum 1996 Jun;39(6):1006–15.

The pathophysiology and treatment of rheumatoid arthritis [editorial] Arend WP. **Arthritis Rheum** 1997 Apr; 40(4):595–7 (11 ref.)

Mononuclear phagocytes and rheumatoid synovitis. Mastermind or workhorse in arthritis? Burmester GR, et al. **Arthritis Rheum** 1997 Jan;40(1):5–18 (178 ref.)

Assessment of healing phenomena in rheumatoid arthritis: comment on the article by Rau and Herborn [letter; comment] Cabral AR, et al. **Arthritis Rheum** 1996 Nov; 39(11):1934–5. Comment on: Arthritis Rheum 1996 Jan;39(1):162–8.

Selective activation of the JNK/AP-1 pathway in Fas-mediated apoptosis of rheumatoid arthritis synoviocytes. Okamoto K, et al. **Arthritis Rheum** 1997 May; 40(5):919–26

HLA-DRB1 genes and disease severity in rheumatoid arthritis. The MIRA Trial Group. Minocycline in Rheumatoid Arthritis. Reveille JD, et al. **Arthritis Rheum** 1996 Nov;39(11):1802–7

Development of in vitro model systems for destructive joint diseases: novel strategies for establishing inflammatory pannus. Schultz O, et al. **Arthritis Rheum** 1997 Aug; 40(8):1420–8

Effects of pulse methylprednisolone on cell adhesion molecules in the synovial membrane in rheumatoid arthritis. Reduced E-selectin and intercellular adhesion molecule 1 expression. Youssef PP, et al. **Arthritis Rheum** 1996 Dec; 39(12):1970–9

Middle ear mechanics in subjects with rheumatoid arthritis. Colletti V, et al. **Audiology** 1997 May-Jun;36(3):136–46

Perturbations of hypothalamic-pituitary-gonadal (HPG) axis and adrenal androgen (AA) functions in rheumatoid arthritis. Masi AT, et al. **Baillieres Clin Rheumatol** 1996 May;10(2):295–332 (142 ref.)

Evaluation of early rheumatoid arthritis disease activity and outcome. van Gestel AM, et al. **Baillieres Clin Rheumatol** 1997 Feb;11(1):49–63 (50 ref.)

Hormones and autoimmunity: animal models of arthritis. Wilder RL. **Baillieres Clin Rheumatol** 1996 May; 10(2):259–71 (62 ref.)

Iron in synovial fluid: removal by lactoferrin, and relationship to iron regulatory protein (IRP) activity. Guillen C, et al. **Biochem Soc Trans** 1997 May;25(2):315S

Quantified neurological examination with emphasis on motor and sensory functions in patients with rheumatoid arthritis and controls. Bekkelund SI, et al. **Br J Rheumatol** 1996 Nov;35(11):1116–21

Quantitative liver function in patients with rheumatoid arthritis treated with low-dose methotrexate: a longitudinal study. Beyeler C, et al. **Br J Rheumatol** 1997 Mar; 36(3):338–44

The reliability and construct validity of the RAQoL: a rheumatoid arthritis-specific quality of life instrument. de Jong Z, et al. **Br J Rheumatol** 1997 Aug;36(8):878–83

New perspectives on controlling progression of severe rheumatoid arthritis—a summary of the potential role of cyclosporin. Emery P, et al. **Br J Rheumatol** 1996 Sep;35 Suppl 2:1–3 (15 ref.)

Is the control of disease progression within our grasp? Review of the GRISAR study. (Gruppo Reumatologi Italiani Studio Artrite Reumatoide). Ferraccioli GF, et al. **Br J Rheumatol** 1996 Sep;35 Suppl 2:8–13

Handicap in inflammatory arthritis. Harwood RH, et al. **Br J Rheumatol** 1996 Sep;35(9):891–7

Measuring health-related quality of life in rheumatoid arthritis: validity, responsiveness and reliability of EuroQol (EQ-5D). Hurst NP, et al. **Br J Rheumatol** 1997 May; 36(5):551–9

Prognostic value of contrast enhanced Gd-DTPA MRI for development of bone erosive changes in rheumatoid arthritis. Jevtic V, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:26–30

MRI in assessment of the systemic manifestations of rheumatological disease. Kainberger F, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:40–4 (22 ref.)

Radiographic damage in large joints in early rheumatoid arthritis: relationship with radiographic damage in hands and feet, disease activity, and physical disability. Kuper HH, et al. **Br J Rheumatol** 1997 Aug;36(8):855–60

Prediction of permanent work disability in a follow-up study of early rheumatoid arthritis: results of a tree structured analysis using RECPAM. Mau W, et al. **Br J Rheumatol** 1996 Jul;35(7):652–9

Angiogenesis: a critical process in the pathogenesis of RA—a role for VEGF? [editorial] Paleolog EM. **Br J Rheumatol** 1996 Oct;35(10):917–9

Clinical improvement and radiological deterioration in rheumatoid arthritis [letter; comment] Panayi GS. **Br J Rheumatol** 1997 Jul;36(7):820–1. Comment on: Br J Rheumatol 1996 Dec;35(12):1263–8.

Bone matrix degradation by the plasminogen activation system. Possible mechanism of bone destruction in arthritis. Ronday HK, et al. **Br J Rheumatol** 1997 Jan;36(1):9–15

Joint assessment in rheumatoid arthritis. Scott DL, et al. **Br J Rheumatol** 1996 Sep;35 Suppl 2:14–8 (34 ref.)

Use of the short form 36 (SF36) for health status measurement in rheumatoid arthritis. Talamo J, et al. **Br J Rheumatol** 1997 Apr;36(4):463–9

Body composition in rheumatoid arthritis. Westhovens R, et al. **Br J Rheumatol** 1997 Apr;36(4):444–8

Quality of life in rheumatoid arthritis. Whalley D, et al. **Br J Rheumatol** 1997 Aug;36(8):884–8

Measurement of the quality of life in rheumatic disorders using the EuroQol. Wolfe F, et al. **Br J Rheumatol** 1997 Jul;36(7):786–93

The autonomic nervous system and the immune system in juvenile rheumatoid arthritis. Kuis W, et al. **Brain Behav Immun** 1996 Dec;10(4):387–98

Organ-specific disease provoked by systemic autoimmunity. Kouskoff V, et al. **Cell** 1996 Nov 29;87(5):811–22

Middle ear function in rheumatoid arthritis: a multiple frequency tympanometric study. Biasi D, et al. **Clin Exp Rheumatol** 1996 May-Jun;14(3):243–7

Laser Doppler perfusion imaging of proximal interphalangeal joints in patients with rheumatoid arthritis. Ferrell WR, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):649–52

Glucocorticoids and Th-1, Th-2 type cytokines in rheumatoid arthritis, osteoarthritis, asthma, atopic dermatitis and AIDS. Norbiato G, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):315–23 (79 ref.)

The stimulation of mononuclear cells from patients with rheumatoid arthritis to degrade articular cartilage is not modulated by cartilage itself. van Roon JA, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):177–82

A study of serum androgen and cortisol levels in female patients with rheumatoid arthritis. Correlation with disease activity. Mirone L, et al. **Clin Rheumatol** 1996 Jan; 15(1):15–9

Rheumatoid arthritis. **Curr Opin Rheumatol** 1996 May; 8(3):B87–104

Mechanisms of cartilage destruction and novel nonsurgical therapeutic strategies to retard cartilage injury in rheumatoid arthritis. Häuselmann HJ. **Curr Opin Rheumatol** 1997 May;9(3):241–50 (88 ref.)

Cellular pathways of joint destruction. Müller-Ladner U, et al. **Curr Opin Rheumatol** 1997 May;9(3):213–20 (76 ref.)

T-cell-dependent pathways in rheumatoid arthritis. Panayi GS. **Curr Opin Rheumatol** 1997 May;9(3):236–40 (36 ref.)

Assessments of disability in women with rheumatoid arthritis in relation to grip force and pain. Nordenskiöld U, et al. **Disabil Rehabil** 1997 Jan;19(1):13–9

Quantitative analysis of hyaluronan in human synovial fluid using capillary electrophoresis. Grimshaw J, et al. **Electrophoresis** 1996 Feb;17(2):396–400

Plantar pressure distribution after resection of the metatarsal heads in rheumatoid arthritis. Bitzan P, et al. **Foot Ankle Int** 1997 Jul;18(7):391–7

Stressful life events' effects on rheumatoid arthritis disease activity. Potter PT, et al. **J Consult Clin Psychol** 1997 Apr; 65(2):319–23

Are plasminogen antibodies in rheumatoid arthritis of pathogenic significance? Luft FC. **J Mol Med** 1996 Aug; 74(8):413–4

Reported symptoms from the masticatory system and general well-being in rheumatoid arthritis. Kallenberg A, et al. **J Oral Rehabil** 1997 May;24(5):342–9

Autonomic nervous system function in rheumatoid arthritis. A controlled study. Bekkelund SI, et al. **J Rheumatol** 1996 Oct;23(10):1710–4

Prediction of articular destruction in rheumatoid arthritis: disease activity markers revisited [see comments] Coste J, et al. **J Rheumatol** 1997 Jan;24(1):28–34. Comment in: J Rheumatol 1997 Jan;24(1):6–8.

The acute phase and function in early rheumatoid arthritis. C-reactive protein levels correlate with functional outcome. Devlin J, et al. **J Rheumatol** 1997 Jan;24(1):9–13

The assessment of functional status in rheumatoid arthritis: a cross cultural, longitudinal comparison of the Health Assessment Questionnaire and the Groningen Activity Restriction Scale. Doeglas D, et al. **J Rheumatol** 1995 Oct; 22(10):1834–43

Diminished autonomic nervous system responsiveness in rheumatoid arthritis of recent onset. Geenen R, et al. **J Rheumatol** 1996 Feb;23(2):258–64

Musculoskeletal pain and quality of life in patients with noninflammatory joint pain compared to rheumatoid arthritis: a population survey. Hagen KB, et al. **J Rheumatol** 1997 Sep;24(9):1703–9

Self-assessment of disease activity by patients with rheumatoid arthritis. Hanly JG, et al. **J Rheumatol** 1996 Sep;23(9):1531–8

Dysregulation of the hypothalamo-pituitary axis in rheumatoid arthritis. Jorgensen C, et al. **J Rheumatol** 1995 Oct;22(10):1829–33

In vivo migration of radiolabelled lymphocytes in rheumatoid synovial tissue engrafted in SCID mice: implication of beta 2 and beta 7-integrin. Jorgensen C, et al. **J Rheumatol** 1996 Jan;23(1):32–5

Multidrug resistance in rheumatoid arthritis [letter] Maillefert JF, et al. **J Rheumatol** 1996 Dec;23(12):2182

Rheumatoid arthritis and disability depicted in a Dürer engraving [letter] Morales-Tolles J, et al. **J Rheumatol** 1996 Sep;23(9):1673–5

C-reactive protein levels correlate with functional outcome [letter] Munro R, et al. **J Rheumatol** 1997 Sep;24(9):1852–3

Correlation of erythrocyte sedimentation rate and outdoor temperature in a patient with rheumatoid arthritis [letter] Patberg WR. **J Rheumatol** 1997 May;24(5):1017–8

Life events, psychosocial factors, and demographic variables in early rheumatoid arthritis: relations to one-year changes in functional disability [published erratum appears in J Rheumatol 1996 Jul;23(7):1317] Smedstad LM, et al. **J Rheumatol** 1995 Dec;22(12):2218–25

Comparison of standard and alternative health assessment questionnaire scoring procedures for documenting functional outcomes in patients with rheumatoid arthritis. Tomlin GS, et al. **J Rheumatol** 1996 Sep;23(9):1524–30

Assessment of shoulder function in rheumatoid arthritis. van Den Ende CH, et al. **J Rheumatol** 1996 Dec;23(12):2043–8

Individual relationship between progression of radiological damage and the acute phase response in early rheumatoid arthritis. Towards development of a decision support system. van Leeuwen MA, et al. **J Rheumatol** 1997 Jan; 24(1):20–7

Effects of triazolam on sleep, daytime sleepiness, and morning stiffness in patients with rheumatoid arthritis. Walsh JK, et al. **J Rheumatol** 1996 Feb;23(2):245–52

Rheumatology visit frequency and changes in functional disability and pain in patients with rheumatoid arthritis. Ward MM. **J Rheumatol** 1997 Jan;24(1):35–42

The rationale for combination therapy of rheumatoid arthritis based on pathophysiology. Harris ED Jr. **J Rheumatol Suppl** 1996 Mar;44:2–4

Laboratory markers of disease activity. Richardson C, et al. **J Rheumatol Suppl** 1996 Mar;44:23–30 (42 ref.)

Relevance of multidrug resistance to rheumatoid arthritis: development of a new therapeutic hypothesis. Salmon SE, et al. **J Rheumatol Suppl** 1996 Mar;44:97–101 (30 ref.)

The natural history of rheumatoid arthritis. Wolfe F. **J Rheumatol Suppl** 1996 Mar;44:13–22 (115 ref.)

Insights into the role of nitric oxide in inflammatory arthritis. Cochran FR, et al. **Med Res Rev** 1996 Nov;16(6):547–63 (114 ref.)

Scintigraphic evaluation of the severity of inflammation of the joints with 99TCm-HIG in rheumatoid arthritis. Pons F, et al. **Nucl Med Commun** 1996 Jun;17(6):523–8

Characterisation of capsaicin-induced mechanical hyperalgesia as a marker for altered nociceptive processing in patients with rheumatoid arthritis. Morris VH, et al. **Pain** 1997 Jun;71(2):179–86

Cardiorespiratory responses of patients with rheumatoid arthritis during bicycle riding and running in water. Melton-Rogers S, et al. **Phys Ther** 1996 Oct;76(10):1058–65

A continuous patient activity monitor: validation and relation to disability. Walker DJ, et al. **Physiol Meas** 1997 Feb; 18(1):49–59

Cytokines and the pathophysiology of bone erosions in rheumatoid arthritis. Miossec P. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):89S–91S (15 ref.)

Joint sparing in a rheumatoid arthritis patient with an inherited peripheral neuropathy. Pointud P, et al. **Rev Rhum Engl Ed** 1995 Dec;62(11):809–10

Validation of the French version of the arthritis impact measurement scales 2 and comparison with the french version of the Nottingham Health Profile. "Quality of Life in Rheumatology" Task Force. Pouchot J, et al. **Rev Rhum Engl Ed** 1996 Jun;63(6):389–404

The lungs in rheumatoid arthritis—a clinical, radiographic and pulmonary function study. Morrison SC, et al. **S Afr Med J** 1996 Jul;86(7):829–33

Nerve conduction studies in rheumatoid arthritis. Bekkelund SI, et al. **Scand J Rheumatol** 1996;25(5):287–92

Correlates of patients' global assessment of arthritis impact. A 2-year study of 216 patients with RA. Smedstad LM, et al. **Scand J Rheumatol** 1997;26(4):259–65

Role of cytokines, acute-phase proteins, and chemokines in the progression of rheumatoid arthritis. Badolato R, et al. **Semin Arthritis Rheum** 1996 Oct;26(2):526–38 (143 ref.)

A role for histamine receptors in rheumatoid arthritis. Tanaka S, et al. **Semin Arthritis Rheum** 1997 Jun;26(6):824–33 (25 ref.)

Fibrin degradation in the synovial fluid of rheumatoid arthritis patients: a model for extravascular fibrinolysis. Carmassi F, et al. **Semin Thromb Hemost** 1996;22(6):489–96 (90 ref.)

[Physiopathology of rheumatoid polyarthritis] Miossec P. **Ann Biol Clin (Paris)** 1997 Jul-Aug;55(4):319–22 (20 ref.) (Eng. Abstr.) **(Fre)**

[Somatosensory evoked potentials in rheumatoid polyarthritis with radiologic involvement of the cervical spine] Giraud P, et al. **Neurophysiol Clin** 1997;27(1):33–50 (Eng. Abstr.) **(Fre)**

[Synovial fibroblasts from patients with rheumatoid arthritis transplanted in SCID mice destroy normal human cartilage and expressed VCAM-1 and cathepsins] Kriegsmann J, et al. **Verh Dtsch Ges Pathol** 1996;80:281 **(Ger)**

[Mechanism of osteoclastic bone loss of articular cartilages in patients with arthritis] Tanaka S. **Ryumachi** 1997 Apr; 37(2):163–4 **(Jpn)**

[Mechanism of arthritic pain] Yokota T. **Ryumachi** 1996 Oct; 36(5):783–90 (29 ref.) **(Jpn)**

[Evaluation of mineral density in the distal radius during the course of rheumatoid arthritis] Bucka J, et al. **Przegl Lek** 1997;54(4):272–5 (Eng. Abstr.) **(Pol)**

[The morphofunctional changes in the duodenogastric portion of the gastrointestinal tract in patients with rheumatoid arthritis] Barashkov VG, et al. **Vestn Khir Im I I Grek** 1996;155(3):93–5 (47 ref.) **(Rus)**

PREVENTION & CONTROL

From disease modification to disease control in rheumatoid arthritis. Furst DE. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S63–6 (34 ref.)

Adverse drug reactions of DMARDs and DC-ARTs in rheumatoid arthritis. Wolfe F. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S75–81 (77 ref.)

Diet and rheumatoid arthritis in women: a possible protective effect of fish consumption. Shapiro JA, et al. **Epidemiology** 1996 May;7(3):256–63

Oral contraceptives and rheumatoid arthritis: results from a primary care-based incident case-control study. Brennan P, et al. **Semin Arthritis Rheum** 1997 Jun;26(6):817–23 (30

ref.)
[Management of acute rheumatoid arthritis in French Polynesia] Kamblock J, et al. **Med Trop (Mars)** 1996;56(3 Suppl):29–30 (0 ref.) **(Fre)**

PSYCHOLOGY

Psychosocial factors and health status in women with rheumatoid arthritis: predictive models. Dwyer KA. **Am J Prev Med** 1997 Jan–Feb;13(1):66–72
Suffering in people with rheumatoid arthritis. Dildy SP. **Appl Nurs Res** 1996 Nov;9(4):177–83
Margaret Holroyd Prize Essay. A patient–centred approach to evaluation and treatment in rheumatoid arthritis: the development of a clinical tool to measure patient–perceived handicap. Carr AJ. **Br J Rheumatol** 1996 Oct;35(10):921–32 (114 ref.)
Re: Measuring outcomes in rheumatoid arthritis––which measures are suitable for routine use? [letter; comment] Hurst NP. **Br J Rheumatol** 1997 Jan;36(1):146–7. Comment on: Br J Rheumatol 1996 Mar;35(3):301.
Prevalence of self–reported depression in patients with rheumatoid arthritis. Pincus T, et al. **Br J Rheumatol** 1996 Sep;35(9):879–83 (25 ref.)
Quality of life in rheumatoid arthritis. Whalley D, et al. **Br J Rheumatol** 1997 Aug;36(8):884–8
The impact of life events on patients with rheumatoid arthritis: a psychological myth?[see comments] Haller C, et al. **Clin Exp Rheumatol** 1997 Mar–Apr;15(2):175–9. Comment in: Clin Exp Rheumatol 1997 Mar–Apr;15(2):125–8.
Dynamic and static physical training in patients with rheumatoid arthritis: application of a self–appraisal and coping model. Andersson SI, et al. **Disabil Rehabil** 1996 Sep;18(9):469–75
Health effects of emotional disclosure in rheumatoid arthritis patients. Kelley JE, et al. **Health Psychol** 1997 Jul; 16(4):331–40
Illness self–schemas in depressed and nondepressed rheumatoid arthritis patients. Clemmey PA, et al. **J Behav Med** 1997 Jun;20(3):273–90
Stressful life events' effects on rheumatoid arthritis disease activity. Potter PT, et al. **J Consult Clin Psychol** 1997 Apr; 65(2):319–23
A structure of self–conceptions and illness conceptions in rheumatoid arthritis (RA). Persson LO, et al. **J Psychosom Res** 1996 May;40(5):535–49
Determination of future health status expectation in rheumatoid arthritis. Radanov BP, et al. **J Psychosom Res** 1997 Apr;42(4):403–6
The association between external weather conditions and pain and stiffness in women with rheumatoid arthritis. Drane D, et al. **J Rheumatol** 1997 Jul;24(7):1309–16 (23 ref.)
Psychological measures: practical issues in observational studies and clinical monitoring. Lassere M, et al. **J Rheumatol** 1997 May;24(5):1004–7 (10 ref.)
Life events, psychosocial factors, and demographic variables in early rheumatoid arthritis: relations to one–year changes in functional disability [published erratum appears in J Rheumatol 1996 Jul;23(7):1317] Smedstad LM, et al. **J Rheumatol** 1995 Dec;22(12):2218–25
Pain coping strategies and coping efficacy in rheumatoid arthritis: a daily process analysis. Keefe FJ, et al. **Pain** 1997 Jan;69(1–2):35–42
Psychiatric aspects of rheumatology. Moran MG. **Psychiatr Clin North Am** 1996 Sep;19(3):575–87 (53 ref.)
Impact of patient with patient interaction on perceived rheumatoid arthritis overall disease status. Baker PR, et al. **Scand J Rheumatol** 1996;25(4):207–12
Perceived control: a comparison of women with fibromyalgia, rheumatoid arthritis, and systemic lupus erythematosus using a Swedish version of the Rheumatology Attitudes Index. Burckhardt CS, et al. **Scand J Rheumatol** 1996;25(5):300–6
The impact of early rheumatoid arthritis on psychological distress. A comparison between 238 patients with RA and 116 matched controls. Smedstad LM, et al. **Scand J Rheumatol** 1996;25(6):377–82
Compliance in rheumatoid arthritis and the role of formal patient education. Brus H, et al. **Semin Arthritis Rheum** 1997 Feb;26(4):702–10 (77 ref.)
Group education for rheumatoid arthritis patients. Taal E, et al. **Semin Arthritis Rheum** 1997 Jun;26(6):805–16 (56 ref.)
An international study on measuring social support: interactions and satisfaction. Doeglas D, et al. **Soc Sci Med** 1996 Nov;43(9):1389–97
Negotiating spaces in home environments: older women living with arthritis. Moss P. **Soc Sci Med** 1997 Jul; 45(1):23–33
Direct and buffer effects of social support and personal coping resources in individuals with arthritis. Penninx BW, et al. **Soc Sci Med** 1997 Feb;44(3):393–402
Psychotherapy in rheumatoid arthritis––a parallel–process study of psychic state and course of rheumatic disease. Lindberg NE, et al. **Z Rheumatol** 1996 Jan–Feb;55(1):28–39
[Comments on articles of rheumatoid arthritis (letter)] Rekola J. **Duodecim** 1995;111(18):1802–3 **(Fin)**
[Rheumatoid arthritis: an evaluation of treatment efficacy and some aspects of the physician–patient dyad] Korshunov NI, et al. **Ter Arkh** 1997;69(5):33–5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Changes in agalactosyl IgG levels correlate with radiological progression in early rheumatoid arthritis. Lacki JK, et al. **Ann Med** 1996 Jun;28(3):265–9
Rheumatoid arthritis lung disease. Determinants of radiographic and physiologic abnormalities. Saag KG, et al. **Arthritis Rheum** 1996 Oct;39(10):1711–9
Diagnostic radiography in rheumatoid arthritis: benefits and limitations. Bohndorf K, et al. **Baillieres Clin Rheumatol** 1996 Aug;10(3):399–407 (17 ref.)
Plain X–rays in rheumatoid arthritis: overview of scoring methods, their reliability and applicability. van der Heijde DM. **Baillieres Clin Rheumatol** 1996 Aug;10(3):435–53 (59 ref.)
Algorithm to predict radiological erosions in early rheumatoid arthritis. Messages from paper are incorrect [letter; comment] Emery P, et al. **BMJ** 1996 Nov 30; 313(7069):1398. Comment on: BMJ 1996 Aug 24;313(7055):471–6.
Clinical associations of dual–energy X–ray absorptiometry measurement of hand bone mass in rheumatoid arthritis. Devlin J, et al. **Br J Rheumatol** 1996 Dec;35(12):1256–62
Development of radiographic damage during the first 5–6 yr of rheumatoid arthritis. A prospective follow–up study of a Swedish cohort. Fex E, et al. **Br J Rheumatol** 1996 Nov;35(11):1106–15
Radiographic damage in large joints in early rheumatoid arthritis: relationship with radiographic damage in hands and feet, disease activity, and physical disability. Kuper HH, et al. **Br J Rheumatol** 1997 Aug;36(8):855–60
Clinical improvement and radiological deterioration in rheumatoid arthritis: evidence that the pathogenesis of synovial inflammation and articular erosion may differ [see comments] Mulherin D, et al. **Br J Rheumatol** 1996 Dec; 35(12):1263–8. Comment in: Br J Rheumatol 1997 Jul;36(7):820–1. Comment in: Br J Rheumatol 1997 Jul;36(7):821–2.
Clinical improvement and radiological deterioration in rheumatoid arthritis [letter; comment] Panayi GS. **Br J Rheumatol** 1997 Jul;36(7):820–1. Comment on: Br J Rheumatol 1996 Dec;35(12):1263–8.
Influence of methotrexate on radiographic progression in rheumatoid arthritis: a sixty–month prospective study. Drosos AA, et al. **Clin Exp Rheumatol** 1997 May–Jun; 15(3):263–7
The radiological assessment of rheumatoid arthritis. Scott DL, et al. **Clin Exp Rheumatol** 1997 May–Jun;15 Suppl 17:S53–61 (57 ref.)
Roentgenographic evaluation of erosive changes in early cases of rheumatoid arthritis: using magnified view. Rathour DP, et al. **J Indian Med Assoc** 1995 May; 93(5):173–4
Radiographic results from the Minocycline in Rheumatoid Arthritis (MIRA) Trial. Bluhm GB, et al. **J Rheumatol** 1997 Jul;24(7):1295–302
Quantitative measurement of erosion growth and joint space loss in rheumatoid arthritis hand radiographs. Higgs JB, et al. **J Rheumatol** 1996 Feb;23(2):265–72
Continuous progression of radiological destruction in seropositive rheumatoid arthritis. Kaarela K, et al. **J Rheumatol** 1997 Jul;24(7):1285–7
How to apply Larsen score in evaluating radiographs of rheumatoid arthritis in long–term studies. Larsen A. **J Rheumatol** 1995 Oct;22(10):1974–5
Reference curves of radiographic damage in patients with rheumatoid arthritis: application of quantile regression and fractional polynomials. Lassere M, et al. **J Rheumatol** 1997 Jul;24(7):1288–94
Comparison of cystic rheumatoid arthritis and erosive rheumatoid arthritis. Lycklamaà Nijeholt G, et al. **J Rheumatol** 1996 Mar;23(3):447–52
Association of the shared epitope with radiological severity of rheumatoid arthritis. Moreno I, et al. **J Rheumatol** 1996 Jan;23(1):6–9
Quantitative analysis of hand radiographs in rheumatoid arthritis: time course of radiographic changes, relation to joint examination measures, and comparison of different scoring methods. Pincus T, et al. **J Rheumatol** 1995 Oct; 22(10):1983–9
A modified version of Larsen's scoring method to assess radiologic changes in rheumatoid arthritis. Rau R, et al. **J Rheumatol** 1995 Oct;22(10):1976–82
How to evaluate measuring methods in the case of non–defined external validity. Rückmann A, et al. **J Rheumatol** 1995 Oct;22(10):1998–2000
Individual relationship between progression of radiological damage and the acute phase response in early rheumatoid arthritis. Towards development of a decision support system. van Leeuwen MA, et al. **J Rheumatol** 1997 Jan; 24(1):20–7
Mobilization of fibrinolytic enzymes in synovial fluid and plasma of rheumatoid arthritis and spondyloarthropathy and their relation to radiological destruction. Wållberg–Jonsson S, et al. **J Rheumatol** 1996 Oct; 23(10):1704–9
Problems in evaluating radiographic findings in rheumatoid arthritis using different methods of radiographic scoring: examples of difficult cases and a study design to develop an improved scoring method. Wassenberg S, et al. **J Rheumatol** 1995 Oct;22(10):1990–7
Future opportunities using technical advantages in picture processing and data transfer. Willkens RF, et al. **J Rheumatol** 1995 Oct;22(10):2001–3
Natural history of upper cervical lesions in rheumatoid arthritis. Fujiwara K, et al. **J Spinal Disord** 1997 Aug; 10(4):275–81
Positron emission tomography with 11C–D–deprenyl in patients with rheumatoid arthritis. Evaluation of knee joint inflammation before and after intra–articular glucocorticoid treatment. Danfors T, et al. **Scand J Rheumatol** 1997; 26(1):43–8
[Pleural and pulmonary changes within the scope of rheumatoid arthritis] Bankier AA, et al. **Radiologe** 1996 Aug;36(8):637–45 (61 ref.) (Eng. Abstr.) **(Ger)**
[Roentgen diagnosis and computerized tomography in inflammatory rheumatic diseases. Methods with a future?] Lingg G. **Radiologe** 1996 Aug;36(8):600–8 (21 ref.) (Eng. Abstr.) **(Ger)**
[Pulmonary manifestations in rheumatoid arthritis: high–resolution computed tomography in correlation with the skeletal changes and the laboratory chemical changes] Müller–Leisse C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):438–44 (Eng. Abstr.) **(Ger)**
[Radiologic manifestation of rheumatoid arthritis] Kapp HJ. **Rontgenpraxis** 1997 Jun;50(6):135–41 (6 ref.) **(Ger)**
[Development and evaluation of a modified version of the Larsen method for evaluating roentgenologic changes in chronic polyarthritis] Rau R, et al. **Z Rheumatol** 1997 May–Jun;56(3):127–35 (Eng. Abstr.) **(Ger)**
[The ankle and hindfoot of rheumatoid arthritis patients: study with computerized tomography] Riga B, et al. **Radiol Med (Torino)** 1996 Dec;92(6):677–81 (Eng. Abstr.) **(Ita)**
[Quantitative analysis of radiologic progression in rheumatoid arthritis: controversies and perspectives] Salaffi F, et al. **Radiol Med (Torino)** 1997 Mar;93(3):174–84 (77 ref.) (Eng. Abstr.) **(Ita)**
[Roentgenological and histomorphological studies of the knee joint in rheumatoid arthritis] Yokota T. **Ryumachi** 1996 Jun;36(3):503–13 (Eng. Abstr.) **(Jpn)**
[The clinical x–ray variants of the osteolytic forms of rheumatoid arthritis of the temporomandibular joint] Grinin VM, et al. **Stomatologiia (Mosk)** 1996;75(2):40–3 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

A comparison between 111In–anti–E–selectin mAb and 99Tcm–labelled human non–specific immunoglobulin in radionuclide imaging of rheumatoid arthritis. Jamar F, et al. **Br J Radiol** 1997 May;70(833):473–81
F–18 FDG accumulation in inflamed joints. Yasuda S, et al. **Clin Nucl Med** 1996 Sep;21(9):740
Evaluation of disease activity in rheumatoid arthritis and other arthritides using 99mTechnetium labeled nonspecific human immunoglobulin. Boerbooms AM, et al. **J Rheumatol** 1996 Feb;23(2):405
Scintigraphic evaluation of the severity of inflammation of the joints with 99TCm–HIG in rheumatoid arthritis. Pons F, et al. **Nucl Med Commun** 1996 Jun;17(6):523–8
Value of 99mTc–IgG scintigraphy in the prediction of joint destruction in patients with rheumatoid arthritis of recent onset. de Bois MH, et al. **Rheumatol Int** 1995;15(4):155–8
[Radionuclide diagnosis of local inflammation in patients with rheumatoid arthritis] Vezikova NN, et al. **Ter Arkh** 1995; 67(12):43–6 (Eng. Abstr.) **(Rus)**

RADIOTHERAPY

Total lymphoid irradiation in rheumatoid arthritis. A ten–year followup. Westhovens R, et al. **Arthritis Rheum** 1997 Mar;40(3):426–9
Total lymphoid irradiation––not for rheumatoid arthritis. Rackoff P, et al. **Lancet** 1997 Sep 13;350(9080):752–3
Rhenium–188 labeled hydroxyapatite and rhenium–188 sulfur colloid. In vitro comparison of two agents for radiation synovectomy. Grillenberger KG, et al. **Nuklearmedizin** 1997 Mar;36(2):71–5
[Principles of radio–synoviorthesis] Kotzerke J. **Rontgenpraxis** 1997 Jun;50(6):150–4 (42 ref.) **(Ger)**
[Arthroscopic synovectomy and radiosynoviorthesis] Kerschbaumer F, et al. **Z Rheumatol** 1996 Nov–Dec; 55(6):388–93 (Eng. Abstr.) **(Ger)**
[The negative effects of low–intensity laser therapy in rheumatoid arthritis] Zvereva KV, et al. **Ter Arkh** 1996; 68(5):22–4 (Eng. Abstr.) **(Rus)**

REHABILITATION

Soft versus hard resting hand splints in rheumatoid arthritis: pain relief, preference, and compliance. Callinan NJ, et al. **Am J Occup Ther** 1996 May;50(5):347–53
Dance–based exercise program in rheumatoid arthritis. Feasibility in individuals with American College of Rheumatology functional class III disease. Noreau L, et al. **Am J Phys Med Rehabil** 1997 Mar–Apr;76(2):109–13
The two–year follow–up of a randomized comparison of in–patient multidisciplinary team care and routine out–patient care for active rheumatoid arthritis. Vliet Vlieland TP, et al. **Br J Rheumatol** 1997 Jan;36(1):82–5
Dynamic and static physical training in patients with rheumatoid arthritis: application of a self–appraisal and coping model. Andersson SI, et al. **Disabil Rehabil** 1996 Sep;18(9):469–75
Occupational therapy for patients with chronic diseases:

CVA, rheumatoid arthritis and progressive diseases of the central nervous system. Driessen MJ, et al. **Disabil Rehabil** 1997 May;19(5):198–204

Assistive technology selection: a study of participation of users with rheumatoid arthritis. Hass U, et al. **IEEE Trans Rehabil Eng** 1997 Sep;5(3):263–75

Management of rheumatoid arthritis of the wrist. Dell PC, et al. **J Hand Ther** 1996 Apr–Jun;9(2):157–64 (22 ref.)

Evaluation of the effectiveness of a metacarpophalangeal ulnar deviation orthosis. Rennie HJ. **J Hand Ther** 1996 Oct–Dec;9(4):371–7

Development and validation of a rheumatoid hand functional disability scale that assesses functional handicap. Duruöz MT, et al. **J Rheumatol** 1996 Jul;23(7):1167–72

Efficacy of low load resistive muscle training in patients with rheumatoid arthritis functional class II and III. Komatireddy GR, et al. **J Rheumatol** 1997 Aug; 24(8):1531–9

Rehabilitation of the rheumatoid arthritic patient. Swezey RL. **Ryumachi** 1997 Apr;37(2):144–5

In- and out-patient rehabilitation in rheumatoid arthritis. A controlled, open, longitudinal, cost-effectiveness study. Nordström DC, et al. **Scand J Rheumatol** 1996;25(4):200–6

[Health care status of rheumatic patients in rheumatologic centers 1993] Zink A, et al. **Gesundheitswesen** 1996 Dec; 58(12):648–56 (Eng. Abstr.) **(Ger)**

[Results of early rehabilitation using various knee prosthesis models] Sparmann M, et al. **Rehabilitation (Stuttg)** 1996 Aug;35(3):170–5 (Eng. Abstr.) **(Ger)**

[Therapeutic approaches of general practitioners and rheumatologists in South Germany in rheumatoid arthritis and gonarthrosis] Günaydin I, et al. **Z Rheumatol** 1997 Mar–Apr;56(2):80–8 (Eng. Abstr.) **(Ger)**

[Memorandum on the position and development of rehabilitation for patients with rheumatic diseases] Jäckel WH, et al. **Z Rheumatol** 1996 Nov–Dec;55(6):410–22 **(Ger)**

[Rehabilitation of rheumatic diseases (editorial; comment)] Jäckel WH. **Z Rheumatol** 1996 Jul–Aug;55(4):221–2. Comment on: Z Rheumatol 1996 Jul–Aug;55(4):223–9. **(Ger)**

[Deficiencies in rehabilitation measures in the course of early chronic polyarthritis (see comments)] Mau W, et al. **Z Rheumatol** 1996 Jul–Aug;55(4):223–9 (Eng. Abstr.). Comment in: Z Rheumatol 1996 Jul–Aug;55(4):221–2. **(Ger)**

[Indicators of work incapacity in the first year of chronic polyarthritis (see comments)] Mau W, et al. **Z Rheumatol** 1996 Jul–Aug;55(4):233–40 (Eng. Abstr.). Comment in: Z Rheumatol 1996 Jul–Aug;55(4):230–2. **(Ger)**

[The current aspects of the pelotherapy of patients with rheumatoid arthritis] Sidorov VD, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):42–5 (45 ref.) **(Rus)**

SURGERY

Elbow synovectomy in rheumatoid arthritis. Jensen CM, et al. **Acta Orthop Belg** 1996 Sep;62(3):144–7

Does wrist fusion cause destruction of the first carpometacarpal joint in rheumatoid arthritis? 18 patients followed for 2–6 years. Belt EA, et al. **Acta Orthop Scand** 1997 Aug;68(4):352–4

Shoulder hemiarthroplasty in rheumatoid arthritis. 19 cases reexamined after 1–17 years. Koorevaar RC, et al. **Acta Orthop Scand** 1997 Jun;68(3):243–5

The cervical spine in rheumatoid arthritis [letter; comment] Sharp RJ. **Anaesth Intensive Care** 1996 Jun;24(3):401–2. Comment on: Anaesth Intensive Care 1996 Feb;24(1):127.

Musculofascial flaps based on the dorsalis pedis vascular pedicle for coverage of the foot and ankle. Gibstein LA, et al. **Ann Plast Surg** 1996 Aug;37(2):152–7

Marmor modular knee plateau positioning and prosthesis survival in 55 knees with rheumatoid arthritis. Kolstad K, et al. **Arch Orthop Trauma Surg** 1996;115(1):17–21

The surgical management of the rheumatoid foot. Grace DL. **Br J Hosp Med** 1996 Nov 6–19;56(9):473–80

Systemic effects of open and arthroscopic articulosynovectomy compared to radiosynoviorthesis in patients with rheumatoid arthritis [letter] Göbel D, et al. **Br J Rheumatol** 1997 Mar;36(3):402–3

Simultaneous bilateral total knee arthroplasty for rheumatoid arthritis. Lu H, et al. **Chin Med J (Engl)** 1996 Dec; 109(12):937–40

Outcome of radical multiple synovectomy as a novel surgical treatment for refractory rheumatoid arthritis: implication of HLA-DRB1*0405 in post-operative results. Nakamura H, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):53–7

Swanson proximal interphalangeal joint arthroplasty in patients with rheumatoid arthritis. Ashworth CR, et al. **Clin Orthop** 1997 Sep;(342):34–7

Arthroplasty of rheumatoid metatarsophalangeal joints. An outcome study. Clayton ML, et al. **Clin Orthop** 1997 Jul; (340):48–57

Rheumatoid arthritis. Hindfoot disease. Cracchiolo A 3rd. **Clin Orthop** 1997 Jul;(340):58–68

Silastic metacarpophalangeal joint arthroplasty in patients with rheumatoid arthritis. Gellman H, et al. **Clin Orthop** 1997 Sep;(342):16–21

Total wrist arthroplasty in rheumatoid arthritis. A long-term clinical review. Gellman H, et al. **Clin Orthop** 1997 Sep; (342):71–6

Long-term followup of rheumatoid forefoot surgery. Hamalainen M, et al. **Clin Orthop** 1997 Jul;(340):34–8

Swanson metacarpophalangeal joint arthroplasty in patients with rheumatoid arthritis. Hansraj KK, et al. **Clin Orthop** 1997 Sep;(342):11–5

Arthroplasty for rheumatoid forefoot deformities by a shortening oblique osteotomy. Hanyu T, et al. **Clin Orthop** 1997 May;(338):131–8

Management of the rheumatoid hindfoot with special reference to talonavicular arthrodesis. Kindsfater K, et al. **Clin Orthop** 1997 Jul;(340):69–74

Compression arthrodesis of the rheumatoid ankle and hindfoot. Miehlke W, et al. **Clin Orthop** 1997 Jul; (340):75–86

Use of grommets for flexible hinge implant arthroplasty of the great toe. Swanson AB, et al. **Clin Orthop** 1997 Jul; (340):87–94

Surgery of the rheumatoid forefoot with special reference to the plantar approach. Tillmann K. **Clin Orthop** 1997 Jul;(340):39–47 (62 ref.)

Surgical principles and planning for the rheumatoid hand and wrist. O'Brien ET. **Clin Plast Surg** 1996 Jul; 23(3):407–20 (43 ref.)

The long-term results of ankle joint synovectomy for rheumatoid arthritis. Akagi S, et al. **Clin Rheumatol** 1997 May;16(3):284–90

Plantar pressure distribution after resection of the metatarsal heads in rheumatoid arthritis. Bitzan P, et al. **Foot Ankle Int** 1997 Jul;18(7):391–7

Pedodynographic measurements after forefoot reconstruction in rheumatoid arthritis patients. Dereymaeker G, et al. **Foot Ankle Int** 1997 May;18(5):270–6

An approach to complex rheumatoid hand and wrist problems. Blair WF. **Hand Clin** 1996 Aug;12(3):615–28 (16 ref.)

The distal radioulnar joint in rheumatoid arthritis. Blank JE, et al. **Hand Clin** 1996 Aug;12(3):499–513 (87 ref.)

The rheumatoid thumb. Stein AB, et al. **Hand Clin** 1996 Aug; 12(3):541–50 (49 ref.)

Recovery of full flexion after total knee replacement in rheumatoid arthritis--a follow-up study. Yoshino S, et al. **Int Orthop** 1997;21(2):98–100

5- to 18-year follow-up study of cemented total knee arthroplasty for patients 55 years old or younger. Gill GS, et al. **J Arthroplasty** 1997 Jan;12(1):49–54

Primary total knee arthroplasty using the Genesis Total Knee Arthroplasty System: 3- to 6-year follow-up study of 105 knees. Mokris JG, et al. **J Arthroplasty** 1997 Jan;12(1):91–8

The Rotaglide total knee arthroplasty. Prosthesis design and early results [see comments] Polyzoides AJ, et al. **J Arthroplasty** 1996 Jun;11(4):453–9. Comment in: J Arthroplasty 1997 Feb;12(2):213–4.

Pseudomeniscus following total knee arthroplasty as a cause of persistent knee pain. Scher DM, et al. **J Arthroplasty** 1997 Jan;12(1):114–8

Comparison of the results of bilateral total knee arthroplasty with and without patellar replacement for rheumatoid arthritis. A follow-up note. Kajino A, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):570–4

Results of total elbow arthroplasty after excision of the radial head and synovectomy in patients who had rheumatoid arthritis. Schemitsch EH, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1541–7

Wrist arthrodesis in rheumatoid arthritis. A new technique using internal fixation. Pech J, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):783–6

Total shoulder replacement in rheumatoid disease: 7- to 13-year follow-up of 37 joints. Stewart MP, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):68–72

High implant fracture incidence with Sutter silicone metacarpophalangeal joint arthroplasty. Bass RL, et al. **J Hand Surg [Am]** 1996 Sep;21(5):813–8

Biaxial long-stemmed multipronged distal components for revision/bone deficit total-wrist arthroplasty. Cobb TK, et al. **J Hand Surg [Am]** 1996 Sep;21(5):764–70

Synovectomy, radial head excision, and anterior capsular release in stage III inflammatory arthritis of the elbow. Lonner JH, et al. **J Hand Surg [Am]** 1997 Mar;22(2):279–85

Sauvé-Kapandji procedure for disorders of the distal radioulnar joint: a simplified technique. Rothwell AG, et al. **J Hand Surg [Am]** 1996 Sep;21(5):771–7

Candida infection of a silicone metacarpophalangeal arthroplasty. Dunkley AB, et al. **J Hand Surg [Br]** 1997 Jun;22(3):423–4

Anchorage of wrist joint prostheses to bone using the osseointegration principle. Lundborg G, et al. **J Hand Surg [Br]** 1997 Feb;22(1):84–9

Restoration of metacarpophalangeal extension of the thumb in inflammatory arthritis. Manueddu CA, et al. **J Hand Surg [Br]** 1996 Oct;21(5):633–9

Hand function following Silastic arthroplasty of the metacarpophalangeal joints in the rheumatoid hand. Rothwell AG, et al. **J Hand Surg [Br]** 1997 Feb;22(1):90–3

Flexor tenosynovectomy and tenolysis in longstanding rheumatoid arthritis. Tolat AR, et al. **J Hand Surg [Br]** 1996 Aug;21(4):538–43

Management of rheumatoid arthritis of the wrist. Dell PC, et al. **J Hand Ther** 1996 Apr–Jun;9(2):157–64 (22 ref.)

Predictors of outcome in the quadriparetic nonambulatory myelopathic patient with rheumatoid arthritis: a prospective study of 55 surgically treated Ranawat class IIIb patients. Casey AT, et al. **J Neurosurg** 1996 Oct; 85(4):574–81

Risk factors for early wound complications after orthopedic surgery for rheumatoid arthritis. Escalante A, et al. **J Rheumatol** 1995 Oct;22(10):1844–51

Predicting length of stay after hip or knee replacement for rheumatoid arthritis [see comments] Escalante A, et al. **J Rheumatol** 1997 Jan;24(1):146–52. Comment in: J Rheumatol 1997 Jan;24(1):1–2.

The holmium YAG laser in office based arthroscopy of the knee: comparison with standard interventional instruments in patients with arthritis. Wei N, et al. **J Rheumatol** 1997 Sep;24(9):1806–8

Total shoulder replacement in rheumatoid arthritis: proximal migration and loosening. Sneppen O, et al. **J Shoulder Elbow Surg** 1996 Jan–Feb;5(1):47–52

Long-term results of the treatment of severe osteoarthritis and rheumatoid arthritis with 193 total knee replacements. Lozano Gomez MR, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(2):102–12

Uncemented total knee arthroplasty: report of 109 titanium knees with cancellous-structured porous coating. Baldwin JL, et al. **Orthopedics** 1996 Feb;19(2):123–30

Postoperative joint infections in rheumatoid arthritis patients on methotrexate therapy. Carpenter MT, et al. **Orthopedics** 1996 Mar;19(3):207–10

Results of CFV total wrist arthroplasty: review and early report. Ferlic DC, et al. **Orthopedics** 1995 Dec; 18(12):1167–71

Long-term results of 56 revision total knee replacements. Gustilo T, et al. **Orthopedics** 1996 Feb;19(2):99–103

The surgical management of patients with rheumatoid cervical spine disease. Gurley JP, et al. **Rheum Dis Clin North Am** 1997 May;23(2):317–32 (49 ref.)

Polyurethane versus silicone for endoprosthetic replacement of the metacarpophalangeal joints in rheumatoid arthritis. Sollerman CJ, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Jun; 30(2):145–50

Multiple lymphadenopathy induced by wear debris after total knee replacement. Bae SC, et al. **Scand J Rheumatol** 1996; 25(6):388–90

Total joint arthroplasty and the immune response. Toumbis CA, et al. **Semin Arthritis Rheum** 1997 Aug;27(1):44–7 (47 ref.)

Comparison between intravenous and subcutaneous recombinant human erythropoietin (Epoetin alfa) administration in presurgical autologous blood donation in anemic rheumatoid arthritis patients undergoing major orthopedic surgery. Mercuriali F, et al. **Vox Sang** 1997; 72(2):93–100

Arthroscopic synovectomy. When, which diseases and which joints. Paus AC. **Z Rheumatol** 1996 Nov–Dec;55(6):394–400 (63 ref.)

[Simultaneous bilateral total knee replacement for the patients with serious rheumatoid disease] Lu H, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):594–6 (Eng. Abstr.) **(Chi)**

[New metacarpal osteotomy: metacarpal cervicocapital shortening osteotomy of the rheumatoid hand] Leemrijse T, et al. **Ann Chir Main Memb Super** 1996;15(3):132–7 (Eng. Abstr.) **(Fre)**

[Surgical treatment of the rheumatoid hand] Kénési C. **Bull Acad Natl Med** 1996 Oct;180(7):1643–55; discussion 1656–7 (Eng. Abstr.) **(Fre)**

[Surgery of the upper cervical spine in rheumatoid arthritis. Indications and results apropos of 28 cases] Bénazet JP, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(8):681–90 (Eng. Abstr.) **(Fre)**

[Knee endoprosthesis--determining current status] Fuchs S, et al. **Unfallchirurg** 1996 Dec;99(12):958–63 (Eng. Abstr.) **(Ger)**

[Early implantation of a knee endoprosthesis in young rheumatic patients?] Liebau C, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar–Apr;135(2):Oa9–10 **(Ger)**

[Is synovectomy in chronic polyarthritis justified ? (editorial)] Hagena FW. **Z Rheumatol** 1996 Nov–Dec;55(6):371–5 (22 ref.) **(Ger)**

[Arthroscopic synovectomy and radiosynoviorthesis] Kerschbaumer F, et al. **Z Rheumatol** 1996 Nov–Dec; 55(6):388–93 (Eng. Abstr.) **(Ger)**

[Comparison between the arthroscopic and open synovectomies for rheumatoid knee--a retrospective and random study on the results of the two methods] Ryu J, et al. **Ryumachi** 1995 Dec;35(6):880–8 (Eng. Abstr.) **(Jpn)**

[Murata-Chiba (MC) support ring for acetabular defect in rheumatoid hip] Suzuki M, et al. **Ryumachi** 1996 Jun; 36(3):574–9 (Eng. Abstr.) **(Jpn)**

[Early results of total knee arthroplasty using the GSB endoprosthesis] Gaździk T. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):463–5 (Eng. Abstr.) **(Pol)**

[Total knee joint replacement with a rotating hinge endoprosthesis in light of late results] Smiłowicz M. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):409–13 (Eng. Abstr.) **(Pol)**

[Role of human fetal tissue transplantation in rheumatoid arthritis] Aliev RG, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):698–700 **(Rus)**

ARTHRITIS, RHEUMATOID

THERAPY

Anti-tumor necrosis factor-alpha therapy of rheumatoid arthritis. Feldmann M, et al. **Adv Immunol** 1997;64:283–350 (271 ref.)

How vigorously should we exercise our rheumatoid arthritis patients? Hazes JM, et al. **Ann Rheum Dis** 1996 Dec; 55(12):861–2

Effect of recombinant human erythropoietin on anaemia and disease activity in patients with rheumatoid arthritis and anaemia of chronic disease: a randomised placebo controlled double blind 52 weeks clinical trial. Peeters HR, et al. **Ann Rheum Dis** 1996 Oct;55(10):739–44

Comparison of high and low intensity training in well controlled rheumatoid arthritis. Results of a randomised clinical trial. van den Ende CH, et al. **Ann Rheum Dis** 1996 Nov;55(11):798–805

TNF blockade in rheumatoid arthritis: implications for therapy and pathogenesis. Maini RN, et al. **APMIS** 1997 Apr;105(4):257–63 (34 ref.)

The pathophysiology and treatment of rheumatoid arthritis [editorial] Arend WP. **Arthritis Rheum** 1997 Apr; 40(4):595–7 (11 ref.)

Outcome of rheumatoid arthritis and psoriasis following autologous stem cell transplantation for hematologic malignancy. Cooley HM, et al. **Arthritis Rheum** 1997 Sep; 40(9):1712–5

Expectation bias in rheumatoid arthritis clinical trials. The anti-CD4 monoclonal antibody experience. Epstein WV. **Arthritis Rheum** 1996 Nov;39(11):1773–80 (22 ref.)

Repeat treatment of rheumatoid arthritis patients with a murine anti-intercellular adhesion molecule 1 monoclonal antibody. Kavanaugh AF, et al. **Arthritis Rheum** 1997 May; 40(5):849–53

Meaningful improvement criteria sets in a rheumatoid arthritis clinical trial. MIRA Trial Group. Minocycline in Rheumatoid Arthritis. Pillemer SR, et al. **Arthritis Rheum** 1997 Mar;40(3):419–25

Decrease in cell adhesion molecules by treatment with anti-tumor necrosis factor alpha monoclonal antibody [letter; comment] Smith MD. **Arthritis Rheum** 1997 Apr; 40(4):789–90. Comment on: Arthritis Rheum 1996 Jul;39(7):1077–81.

Autologous hemopoietic stem cell transplantation: a possible cure for rheumatoid arthritis? Wicks I, et al. **Arthritis Rheum** 1997 Jun;40(6):1005–11 (59 ref.)

Double filtration plasmapheresis for the treatment of rheumatoid arthritis: a study of 21 cases. Liu JD, et al. **Artif Organs** 1997 Feb;21(2):96–8

The use of biologics in the treatment of rheumatoid arthritis (RA)—the good news and the bad news. McQueen FM. **Aust N Z J Med** 1997 Apr;27(2):175–84 (43 ref.)

Specialist management: needs and benefits. Stucki G. **Baillieres Clin Rheumatol** 1997 Feb;11(1):97–107 (49 ref.)

Gene therapy for arthritis: principles and clinical practice. Kang R, et al. **Biochem Soc Trans** 1997 May;25(2):533–7 (37 ref.)

Science, medicine, and the future. Treatment of rheumatoid arthritis. Buckley CD. **BMJ** 1997 Jul 26;315(7102):236–8 (14 ref.)

Reduction of serum matrix metalloproteinase 1 and matrix metalloproteinase 3 in rheumatoid arthritis patients following anti-tumour necrosis factor-alpha (cA2) therapy. Brennan FM, et al. **Br J Rheumatol** 1997 Jun;36(6):643–50

Margaret Holroyd Prize Essay. A patient-centred approach to evaluation and treatment in rheumatoid arthritis: the development of a clinical tool to measure patient-perceived handicap. Carr AJ. **Br J Rheumatol** 1996 Oct;35(10):921–32 (114 ref.)

Treatment advances—when and how to inform the public? Deighton C, et al. **Br J Rheumatol** 1996 Nov;35(11):1175–7

Video image analysis of hands: development of an 'anatomic index' as a potential outcome measure in rheumatoid arthritis. Highton J, et al. **Br J Rheumatol** 1996 Dec; 35(12):1274–80

Novel strategies for the therapy of rheumatoid arthritis. Hummel KM, et al. **Br J Rheumatol** 1997 Feb;36(2):265–7 (6 ref.)

Re: Measuring outcomes in rheumatoid arthritis—which measures are suitable for routine use? [letter; comment] Hurst NP. **Br J Rheumatol** 1997 Jan;36(1):146–7. Comment on: Br J Rheumatol 1996 Mar;35(3):301.

Is rheumatoid arthritis becoming a milder disease? Or are we starting second-line therapy in patients with milder disease? Porter DR, et al. **Br J Rheumatol** 1996 Dec; 35(12):1305–8

Remission in a prospective study of patients with rheumatoid arthritis. American Rheumatism Association preliminary remission criteria in relation to the disease activity score [see comments] Prevoo ML, et al. **Br J Rheumatol** 1996 Nov;35(11):1101–5. Comment in: Br J Rheumatol 1996 Nov;35(11):1039–40.

Determination of metalloproteinases, plasminogen-activators and their inhibitors in the synovial fluids of patients with rheumatoid arthritis during chemical synoviorthesis. Blaser J, et al. **Clin Chim Acta** 1996 Jan 15;244(1):17–33

Weight reduction in obese patients with rheumatoid arthritis, with preservation of body cell mass and improvement of physical fitness. Engelhart M, et al. **Clin Exp Rheumatol** 1996 May-Jun;14(3):289–93

Rescue of DMARD failures by means of monoclonal antibodies or biological agents. Kalden JR. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S91–8 (42 ref.)

High dose intravenous immunoglobulin (IVIg) in severe refractory rheumatoid arthritis: no evidence for efficacy. Maksymowych WP, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):657–60

New insights into the pathogenesis and treatment of rheumatoid arthritis. Odeh M. **Clin Immunol Immunopathol** 1997 May;83(2):103–16 (209 ref.)

Therapeutic approaches of German and Turkish physicians to rheumatoid arthritis and to osteoarthritis of the knee. Gunaydin I, et al. **Clin Rheumatol** 1996 Jan;15(1):55–8

Rheumatoid arthritis. **Curr Opin Rheumatol** 1996 May; 8(3):B87–104

Pathways to gene therapy in rheumatoid arthritis. Evans CH, et al. **Curr Opin Rheumatol** 1996 May;8(3):230–4 (26 ref.)

Mechanisms of cartilage destruction and novel nonsurgical therapeutic strategies to retard cartilage injury in rheumatoid arthritis. Häuselmann HJ. **Curr Opin Rheumatol** 1997 May;9(3):241–50 (88 ref.)

Management of rheumatoid arthritis. Stucki G, et al. **Curr Opin Rheumatol** 1997 May;9(3):229–35 (42 ref.)

Medical aspects of rheumatoid arthritis. Diagnosis and treatment. Massarotti EM. **Hand Clin** 1996 Aug; 12(3):463–75 (68 ref.)

Clinical trial to assess the safety, feasibility, and efficacy of transferring a potentially anti-arthritic cytokine gene to human joints with rheumatoid arthritis. Evans CH, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1261–80

Bypassing the antigen to control rheumatoid arthritis. Miossec P, et al. **Immunol Today** 1996 Apr;17(4):170–3

Immunoregulatory circuits and potential treatment of connective tissue diseases. Alcocer-Varela J, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):348–54 (51 ref.)

What is the mechanism of action of anti-tumour necrosis factor-alpha antibody in rheumatoid arthritis? Feldmann M. **Int Arch Allergy Immunol** 1996 Dec;111(4):362–5 (25 ref.)

Novel therapies for treatment of rheumatoid arthritis. Piascik P. **J Am Pharm Assoc (Wash)** 1997 Jan-Feb;NS37(1):14–6

Treatment with a chimeric CD4 monoclonal antibody is associated with a relative loss of CD4+/CD45RA+ cells in patients with rheumatoid arthritis. van der Lubbe PA, et al. **J Autoimmun** 1997 Feb;10(1):87–97

Outcome measures, pooled index and quality of life instruments in rheumatoid arthritis. Cheah SY, et al. **J Clin Pharm Ther** 1996 Oct;21(5):297–316 (119 ref.)

Human IL-1Ra gene transfer into human synovial fibroblasts is chondroprotective. Müller-Ladner U, et al. **J Immunol** 1997 Apr 1;158(7):3492–8

The cytokine network in rheumatoid arthritis: definition of TNF alpha as a therapeutic target. Feldmann M. **J R Coll Physicians Lond** 1996 Nov-Dec;30(6):560–70 (86 ref.)

Joint lavage and starling pressures [letter] Ahlqvist J. **J Rheumatol** 1997 Sep;24(9):1858

Variation among rheumatologists in clinical outcomes and frequency of office visits for rheumatoid arthritis. Criswell LA, et al. **J Rheumatol** 1997 Jul;24(7):1266–71

A phase I/II open label study of the safety and efficacy of an anti-ICAM-1 (intercellular adhesion molecule-1; CD54) monoclonal antibody in early rheumatoid arthritis. Kavanaugh AF, et al. **J Rheumatol** 1996 Aug;23(8):1338–44

V beta 17 T cell receptor peptide vaccination in rheumatoid arthritis: results of phase I dose escalation study. Moreland LW, et al. **J Rheumatol** 1996 Aug;23(8):1353–62

Arthroscopic lavage treatment in rheumatoid arthritis of the knee. Sharma A, et al. **J Rheumatol** 1996 Nov;23(11):1872–4

Treatment of rheumatoid arthritis by immunization with mononuclear white blood cells: results of a preliminary trial. Smith JB, et al. **J Rheumatol** 1996 Feb;23(2):220–5

Interruptions in rheumatology subspecialty care among patients with rheumatoid arthritis. Ward MM, et al. **J Rheumatol** 1995 Dec;22(12):2319–26

Rheumatology visit frequency and changes in functional disability and pain in patients with rheumatoid arthritis. Ward MM. **J Rheumatol** 1997 Jan;24(1):35–42

Outcome versus activity in rheumatoid arthritis: a focus blurred [editorial] Zwillich SH. **J Rheumatol** 1997 May; 24(5):826–9

Hematopoietic stem cell transplantation for autoimmune diseases. Brooks PM. **J Rheumatol Suppl** 1997 May; 48:19–22 (22 ref.)

Initial experience combining methotrexate with biologic agents for treating rheumatoid arthritis. Moreland LW. **J Rheumatol Suppl** 1996 Mar;44:78–83 (74 ref.)

Relevance of multidrug resistance to rheumatoid arthritis: development of a new therapeutic hypothesis. Salmon SE, et al. **J Rheumatol Suppl** 1996 Mar;44:97–101 (30 ref.)

The future use of biologic therapies in combination for the treatment of rheumatoid arthritis. Strand V. **J Rheumatol Suppl** 1996 Mar;44:91–6 (51 ref.)

The costs of rheumatoid arthritis: absolute, incremental, and marginal estimates. Yelin E. **J Rheumatol Suppl** 1996 Mar; 44:47–51 (12 ref.)

Cytokine therapy in rheumatoid arthritis [letter] Maini RN, et al. **Lancet** 1996 Sep 21;348(9030):824–5

The promise of a new clinical trial—intra-articular IL-1 receptor antagonist. Evans CH, et al. **Proc Assoc Am Physicians** 1996 Jan;108(1):1–5 (34 ref.)

Living with rheumatoid arthritis. Ford A, et al. **Radiol Technol** 1997 Jul-Aug;68(6):515–9

Effects of exercise on fatigue, aerobic fitness, and disease activity measures in persons with rheumatoid arthritis. Neuberger GB, et al. **Res Nurs Health** 1997 Jun; 20(3):195–204

Gene therapy in rheumatology. From the laboratory to the patient [editorial] Boissier MC, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):1–3

Management of the foot and ankle in rheumatoid arthritis. Mann RA, et al. **Rheum Dis Clin North Am** 1996 Aug; 22(3):457–76 (23 ref.)

Biologic agents for the treatment of rheumatoid arthritis. Strand V, et al. **Rheum Dis Clin North Am** 1996 Feb; 22(1):117–32 (56 ref.)

TNF and anti-TNF treatment in rheumatoid arthritis (RA). What we know and what we still need to know. Weisman MH. **Ryumachi** 1997 Apr;37(2):142–3

Epoetin alfa for autologous blood donation in patients with rheumatoid arthritis and concomitant anemia. Mercuriali F. **Semin Hematol** 1997 Apr;33(2 Suppl 2):18–20; discussion 21

Rheumatoid arthritis. Britton CA, et al. **Semin Roentgenol** 1996 Jul;31(3):198–207 (19 ref.)

[Various opinions of family physicians and rheumatologists about the management of patients with rheumatoid arthritis (see comments)] Pollemans MC, et al. **Ned Tijdschr Geneeskd** 1996 Oct 12;140(41):2040–4 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Dec 7;140(49):2478–9. **(Dut)**

[Various viewpoints of family physicians and rheumatologists on care of patients with rheumatoid arthritis (letter; comment)] van Rijthoven AW. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2478–9. Comment on: Ned Tijdschr Geneeskd 1996 Oct 12;140(41):2040–4. **(Dut)**

[Experimental gene therapy in models of inflammatory arthritis] Bessis N, et al. **C R Seances Soc Biol Fil** 1996; 190(1):159–63 (14 ref.) (Eng. Abstr.) **(Fre)**

[Complicated course of rheumatoid arthritis with pulmonary involvement, myocardial fibrosis and sleep apnea syndrome (letter)] Korte M. **Pneumologie** 1997 Jul;51(7):695 **(Ger)**

[Complicated course of rheumatoid arthritis with pulmonary involvement, myocardial fibrosis and sleep apnea syndrome (letter)] Wessendorf TE, et al. **Pneumologie** 1997 Jul; 51(7):694 **(Ger)**

[Therapy of rheumatoid arthritis (chronic polyarthritis)] Villiger PM, et al. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1102–7 (Eng. Abstr.) **(Ger)**

[Acupuncture in treatment of inflammatory rheumatic diseases] Lautenschläger J. **Z Rheumatol** 1997 Jan-Feb; 56(1):8–20 (Eng. Abstr.) **(Ger)**

[Relationship between HLA-DRB1 genotypes and efficacy of oral type II collagen treatment using chicken cartilage soup in rheumatoid arthritis] Toda Y, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Feb;20(1):44–51 (Eng. Abstr.) **(Jpn)**

[Differential diagnosis and treatment of chronic rheumatoid arthritis] Hashimoto H. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):444–7 (8 ref.) **(Jpn)**

[Therapeutic planning of patients with early-stage arthritis rheumatoid] Kashiwazaki S. **Ryumachi** 1997 Apr;37(2):154 **(Jpn)**

[Therapy of arthritis patients with spinal lesions] Nishibayashi Y. **Ryumachi** 1997 Apr;37(2):157–8 **(Jpn)**

[Clinical and immunological effects of leukapheresis therapy using cotton-wool filter for patients with rheumatoid arthritis] Takeda M. **Ryumachi** 1996 Jun;36(3):493–502 (Eng. Abstr.) **(Jpn)**

[New approaches to the therapy of rheumatoid arthritis] Balabanova RM, et al. **Ter Arkh** 1996;68(12):78–82 (20 ref.) (Eng. Abstr.) **(Rus)**

[Rheumatoid arthritis: an evaluation of treatment efficacy and some aspects of the physician-patient dyad] Korshunov NI, et al. **Ter Arkh** 1997;69(5):33–5 (Eng. Abstr.) **(Rus)**

[Care of rheumatoid arthritis abroad is not comparable with hospital care (letter)] Sahlberg D, et al. **Lakartidningen** 1997 Jun 18;94(25):2355–6 **(Swe)**

[Basic plans for the combined orthopedic treatment of patients with rheumatoid arthritis and involvement of the joints of the lower extremities] Herasymenko SI. **Lik Sprava** 1996 Oct-Dec;(10–12):74–7 (Eng. Abstr.) **(Ukr)**

ULTRASONOGRAPHY

Ultrasound guided synovial biopsy of the wrist. van Vugt RM, et al. **Scand J Rheumatol** 1997;26(3):212–4

[Ultrasound diagnosis of rheumatic/inflammatory joint diseases] Manger B, et al. **Z Arztl Fortbild Qualitatssich** 1997 Jul;91(4):341–5 (12 ref.) (Eng. Abstr.) **(Ger)**

URINE

Urinary 6 beta-hydroxycortisol excretion in rheumatoid arthritis. Beyeler C, et al. **Br J Rheumatol** 1997 Jan; 36(1):54–8

N-acetyl-beta-D-glucosaminidase urinary excretion as an early indicator of kidney dysfunction in rheumatoid arthritis patients on low-dose methotrexate treatment. Wiland P, et al. **Br J Rheumatol** 1997 Jan;36(1):59–63

The determination of pyridinium crosslinks in urine and serum as a possible marker of cartilage degradation in rheumatoid arthritis. Hein G, et al. **Clin Rheumatol** 1997 Mar;16(2):167–72

Evaluation of urinary pyridinoline in healthy adults and

patients with rheumatoid arthritis by an improved high-performance liquid chromatographic assay. Otsuka M, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct; 42(5):485–90

Assessment of beta-2-microglobulin concentration in serum and urine in rheumatoid arthritis. Lewandowski B, et al. **Rocz Akad Med Bialymst** 1996;41(2):482–91

[Urinary acidification and rheumatoid arthritis] Toblli JE, et al. **Medicina (B Aires)** 1996;56(2):150–4 (Eng. Abstr.) **(Spa)**

VIROLOGY

Herpes viruses in multicase families with rheumatoid arthritis and systemic lupus erythematosus. Dostál C, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:334–7

Parvovirus B19 and acute joint swelling in rheumatoid arthritis patients [letter] Kerr JR, et al. **Ann Rheum Dis** 1996 Sep;55(9):648–9

HTLV-I associated uveitis, myelopathy, rheumatoid arthritis and Sjögren's syndrome. Pinheiro SR, et al. **Arq Neuropsiquiatr** 1995 Dec;53(4):777–81

Direct evidence for the expression of multiple endogenous retroviruses in the synovial compartment in rheumatoid arthritis. Nakagawa K, et al. **Arthritis Rheum** 1997 Apr; 40(4):627–38

Rheumatic aspects of acquired immunodeficiency syndrome. Itescu S. **Curr Opin Rheumatol** 1996 Jul;8(4):346–53 (61 ref.)

Detection of Epstein-Barr virus-encoded small RNA 1 and latent membrane protein 1 in synovial lining cells from rheumatoid arthritis patients. Takei M, et al. **Int Immunol** 1997 May;9(5):739–43

HTLV-I arthropathy and Sjögren syndrome. Nishioka K. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S57–62 (34 ref.)

Retroviral risk factors in patients with autoimmune disease. Drevlow BE, et al. **J Rheumatol** 1996 Mar;23(3):428–31

Human parvovirus infection: rheumatic manifestations, angioedema, C1 esterase inhibitor deficiency, ANA positivity, and possible onset of systemic lupus erythematosus. Fawaz-Estrup F. **J Rheumatol** 1996 Jul; 23(7):1180–5

Detection of rubella, mumps, and measles virus genomic RNA in cells from synovial fluid and peripheral blood in early rheumatoid arthritis. Zhang D, et al. **J Rheumatol** 1997 Jul;24(7):1260–5

Spontaneous establishment of an Epstein-Barr virus-infected fibroblast line from the synovial tissue of a rheumatoid arthritis patient. Koide J, et al. **J Virol** 1997 Mar; 71(3):2478–81

ARTHRITIS, SEPTIC see **ARTHRITIS, INFECTIOUS**

ARTHRITIS, VIRAL see **ARTHRITIS, INFECTIOUS**

ARTHROBACTER

CLASSIFICATION

16S rRNA gene sequence of Rubrobacter radiotolerans and its phylogenetic alignment with members of the genus Arthrobacter, gram-positive bacteria, and members of the family Deinococcaceae. Kausar J, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):684–6

The application of serological techniques to the taxonomy of Arthrobacter and related organisms. Gray TR, et al. **Microbiology** 1996 Mar;142 (Pt 3):561–73

DRUG EFFECTS

Plant compounds that induce polychlorinated biphenyl biodegradation by Arthrobacter sp. strain B1B. Gilbert ES, et al. **Appl Environ Microbiol** 1997 May;63(5):1933–8

Influence of chromium (VI) and acidic conditions on removal of pentachlorophenol from soil by Arthrobacter strain ATCC 33790. Edgehill RU. **Bull Environ Contam Toxicol** 1996 Nov;57(5):737–42

ENZYMOLOGY

Cloning, sequencing, and expression of Arthrobacter protophormiae endo-beta-N-acetylglucosaminidase in Escherichia coli. Takegawa K, et al. **Arch Biochem Biophys** 1997 Feb 1;338(1):22–8

Manganese(II) active site mutants of 3,4-dihydroxyphenylacetate 2,3-dioxygenase from Arthrobacter globiformis strain CM-2. Boldt YR, et al. **Biochemistry** 1997 Feb 25;36(8):2147–53

Mechanistic studies of topa quinone biogenesis in phenylethylamine oxidase. Ruggiero CE, et al. **Biochemistry** 1997 Feb 25;36(8):1953–9

2,4-dioxygenases catalyzing N-heterocyclic-ring cleavage and formation of carbon monoxide. Purification and some properties of 1H-3-hydroxy-4-oxoquinaldine 2,4-dioxygenase from Arthrobacter sp. Rü61a and comparison with 1H-3-hydroxy-4-oxoquinoline 2,4-dioxygenase from Pseudomonas putida 33/1. Bauer I, et al. **Eur J Biochem** 1996 Sep 15;240(3):576–83

Transfer of Man9GlcNAc to L-fucose by endo-beta-N-acetylglucosaminidase from Arthrobacter protophormiae. Fan JQ, et al. **Glycoconj J** 1996 Aug; 13(4):643–52

Arthrobacter ureafaciens sialidase isoenzymes, L, M1 and M2, cleave fucosyl GM1. Iwamori M, et al. **Glycoconj J** 1997 Jan;14(1):67–73

A novel Arthrobacter beta-galactosidase with homology to eucaryotic beta-galactosidases. Gutshall K, et al. **J Bacteriol** 1997 May;179(9):3064–7

Crystallographic and fluorescence studies of ligand binding to N-carbamoylsarcosine amidohydrolase from Arthrobacter sp. Zajc A, et al. **J Mol Biol** 1996 Oct 25; 263(2):269–83

Transformation of Arabidopsis thaliana with the codA gene for choline oxidase; accumulation of glycinebetaine and enhanced tolerance to salt and cold stress. Hayashi H, et al. **Plant J** 1997 Jul;12(1):133–42

GENETICS

Cloning, sequencing, and expression of Arthrobacter protophormiae endo-beta-N-acetylglucosaminidase in Escherichia coli. Takegawa K, et al. **Arch Biochem Biophys** 1997 Feb 1;338(1):22–8

A phylogenetic study of Rubrobacter radiotolerans by sequence analysis of the 16S ribosomal RNA gene. Kausar J, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):697–702

16S rRNA gene sequence of Rubrobacter radiotolerans and its phylogenetic alignment with members of the genus Arthrobacter, gram-positive bacteria, and members of the family Deinococcaceae. Kausar J, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):684–6

capA, a cspA-like gene that encodes a cold acclimation protein in the psychrotrophic bacterium Arthrobacter globiformis SI55. Berger F, et al. **J Bacteriol** 1997 Sep; 179(18):5670–6

A novel Arthrobacter beta-galactosidase with homology to eucaryotic beta-galactosidases. Gutshall K, et al. **J Bacteriol** 1997 May;179(9):3064–7

Heavy metal resistant Arthrobacter sp.--a tool for studying conjugational plasmid transfer between gram-negative and gram-positive bacteria. Margesin R, et al. **J Basic Microbiol** 1997;37(3):217–27

IS1473, a putative insertion sequence identified in the plasmid pAO1 from Arthrobacter nicotinovorans: isolation, characterization, and distribution among Arthrobacter species. Menéndez C, et al. **Plasmid** 1997;37(1):35–41

ISOLATION & PURIFICATION

Endophthalmitis involving an Arthrobacter-like organism following intraocular lens implantation. Esteban J, et al. **Clin Infect Dis** 1996 Nov;23(5):1180–1

Isolation of Arthrobacter spp. from clinical specimens and description of Arthrobacter cumminsii sp. nov. and Arthrobacter woluwensis sp. nov. Funke G, et al. **J Clin Microbiol** 1996 Oct;34(10):2356–63

METABOLISM

New metabolites in the degradation of fluorene by Arthrobacter sp. strain F101. Casellas M, et al. **Appl Environ Microbiol** 1997 Mar;63(3):819–26

Plant compounds that induce polychlorinated biphenyl biodegradation by Arthrobacter sp. strain B1B. Gilbert ES, et al. **Appl Environ Microbiol** 1997 May;63(5):1933–8

Biodegradation of 4-chlorophenol via a hydroquinone pathway by Arthrobacter ureafaciens CPR706. Bae HS, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):125–9

YM-30059, a novel quinolone antibiotic produced by Arthrobacter sp. Kamigiri K, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):823–5

Uptake and utilization of n-octacosane and n-nonacosane by Arthrobacter nicotianae KCC B35. Radwan SS, et al. **J Appl Bacteriol** 1996 Apr;80(4):370–4

PHYSIOLOGY

Microbial biosensor for free fatty acids using an oxygen electrode based on thick film technology. Schmidt A, et al. **Biosens Bioelectron** 1996;11(11):1139–45

ARTHRODERMA see **ASCOMYCETES**

ARTHRODESIS

Distal upper extremity function following proximal humeral resection and reconstruction for tumors: contralateral comparison. Damron TA, et al. **Ann Surg Oncol** 1997 Apr-May;4(3):237–46

Total knee arthroplasty in a patient with bilateral Charcot knees. Fullerton BD, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):780–2

Management of the rheumatoid hindfoot with special reference to talonavicular arthrodesis. Kindsfater K, et al. **Clin Orthop** 1997 Jul;(340):69–74

Treatment of acquired adult planovalgus deformities with subtalar fusion. Mangone PG, et al. **Clin Orthop** 1997 Aug; (341):106–12

Compression arthrodesis of the rheumatoid ankle and hindfoot. Miehlke W, et al. **Clin Orthop** 1997 Jul; (340):75–86

Total knee arthroplasty in a previously ankylosed or arthrodesed knee. Naranja RJ Jr, et al. **Clin Orthop** 1996 Oct;(331):234–7

Surgery of the spine in myelodysplasia. An overview. Rodgers WB, et al. **Clin Orthop** 1997 May;(338):19–35 (91 ref.)

Lumbosacral arthrodesis using pedicular screws and ringed rods. Beguiristain JL, et al. **Eur Spine J** 1997;6(4):233–8

Anterior cervical allograft arthrodesis and instrumentation: multilevel interbody grafting or strut graft reconstruction. Swank ML, et al. **Eur Spine J** 1997;6(2):138–43

Primary subtaler arthrodesis for the treatment of comminuted calcaneal fractures. Buch BD, et al. **Foot Ankle Int** 1996 Feb;17(2):61–70

Arthrodesis of the first metatarsophalangeal joint to salvage failed silicone implant arthroplasty. Hecht PJ, et al. **Foot Ankle Int** 1997 Jul;18(7):383–90 (63 ref.)

Talonavicular arthrodesis for the painful adult acquired flatfoot [letter; comment] Mann RA. **Foot Ankle Int** 1997 Jun;18(6):375–6. Comment on: Foot Ankle Int 1996 Nov;17(11):658–61.

Results of ankle arthrodesis for treatment of supramalleolar nonunion and ankle arthrosis. Marsh JL, et al. **Foot Ankle Int** 1997 Mar;18(3):138–43

A new technique of elbow arthrodesis. A case report. Orozco R, et al. **Int Orthop** 1996;20(2):92–9

Long term follow-up of medial column fusion and tibialis anterior transposition for adolescent flatfoot deformity. Sekiya JK, et al. **Iowa Orthop J** 1997;17:121–9

Radiohumeral arthrodesis for salvage of failed total elbow arthroplasty. Presnal BP, et al. **J Arthroplasty** 1995 Oct; 10(5):699–701

Motion of the hindfoot after simulated arthrodesis. Astion DJ, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):241–6

Results of arthrodesis of the tarsometatarsal joints after traumatic injury. Komenda GA, et al. **J Bone Joint Surg Am** 1996 Nov;78(11):1665–76

Compression of the spinal cord due to destructive spondyloarthropathy of the atlanto-axial joints. Mikawa Y, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1911–4

Failed anterior cervical discectomy and arthrodesis. Analysis and treatment of thirty-five patients. Zdeblick TA, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):523–32

The influence of subtalar and triple arthrodesis on the tibiotalar joint. A long-term follow-up study. de Heus JA, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):644–7

The misuse of the Lapidus procedure [letter; comment] Delmonte R, et al. **J Foot Ankle Surg** 1997 Jan-Feb; 36(1):72–3. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):355–61; discussion 371–2.

The misuse of the Lapidus procedure [letter; comment] Frankel JP. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):71–2. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):355–61; discussion 371–2.

Hallux rigidus: the long-term results of dorsal wedge osteotomy and arthrodesis in adults. Southgate JJ, et al. **J Foot Ankle Surg** 1997 Mar-Apr;36(2):136–40; discussion 161

Major arthrodeses in patients with neuropathic arthropathy. Sticha RS, et al. **J Foot Ankle Surg** 1996 Nov-Dec; 35(6):560–6

The misuse of the Lapidus procedure [letter; comment] Wraalstad R, et al. **J Foot Ankle Surg** 1997 Jan-Feb; 36(1):73–4. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):355–61; discussion 371–2.

Wrist arthrodesis for failed wrist implant arthroplasty. Beer TA, et al. **J Hand Surg [Am]** 1997 Jul;22(4):685–93

Treatment of Kienböck's disease with scaphotrapezio-trapezoid arthrodesis. Watson HK, et al. **J Hand Surg [Am]** 1996 Jan;21(1):9–15

Surgical arthrodesis of the sternomanubrial joint in a patient with psoriatic arthritis. Naranja RJ Jr, et al. **J Shoulder Elbow Surg** 1997 Mar-Apr;6(2):156–9

Open knee dislocation associated with vascular injury successfully salvaged by primary arthrodesis in an elderly patient: a case report. Yokoyama K, et al. **J Trauma** 1996 Oct;41(4):757–9

Complications and long-term outcome of upper cervical spine arthrodesis in patients with Down syndrome. Doyle JS, et al. **Spine** 1996 May 15;21(10):1223–31

Degenerative lumbar spondylolisthesis with spinal stenosis, a prospective study comparing decompression with decompression and intertransverse process arthrodesis: a critical analysis. Vaccaro AR, et al. **Spine** 1997 Feb 15; 22(4):368–9

ADVERSE EFFECTS

Does wrist fusion cause destruction of the first carpometacarpal joint in rheumatoid arthritis? 18 patients followed for 2–6 years. Belt EA, et al. **Acta Orthop Scand** 1997 Aug;68(4):352–4

Stress fracture of the tibia following extensive hindfoot and ankle arthrodesis: a report of three cases [letter; comment] Alvarez R. **Foot Ankle Int** 1996 Sep;17(9):583–4. Comment on: Foot Ankle Int 1995 Jul;16(7):445–8.

Complications following arthroscopic ankle arthrodesis. Crosby LA, et al. **Foot Ankle Int** 1996 Jun;17(6):340–2

Sagittal plane correction of a malunited first metatarsophalangeal arthrodesis utilizing a crescentic osteotomy. Geppert MJ. **Foot Ankle Int** 1997 Feb;18(2):102

Salvage of pseudoarthrosis after tibiotalar arthrodesis. Levine SE, et al. **Foot Ankle Int** 1997 Sep;18(9):580–5

Treatment of complications of shoulder arthrodesis. Groh GI, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):881–7

Stress fracture of the tibia after arthrodesis of the ankle or the hindfoot. Lidor C, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):558–64

Nonunion rates of limited carpal arthrodesis: a meta-analysis

ARTHRODESIS

of the literature. Larsen CF, et al. **J Hand Surg [Am]** 1997 Jan;22(1):66–73

HISTORY

Arthrodesis of the first metatarsophalangeal joint for hallux valgus in rheumatoid arthritis. 1984 [classical article] Mann RA, et al. **Foot Ankle Int** 1997 Feb;18(2):65–7

INSTRUMENTATION

An experimental study of small-joint compression arthrodesis. Breibart AS, et al. **Ann Plast Surg** 1997 Jul; 39(1):47–52

Hip fusion through an anterior approach with the use of a ventral plate. Matta JM, et al. **Clin Orthop** 1997 Apr; (337):129–39

New possibilities in L2–L5 lumbar arthrodesis using a lateral retroperitoneal approach assisted by laparoscopy: preliminary results. de Peretti F, et al. **Eur Spine J** 1996; 5(3):210–6

The use of the Synthes 7.3–mm. cannulated screw in rearfoot and ankle surgery: a preliminary prospective study. Rockett MS, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):87–94; discussion 159

Distal interphalangeal joint arthrodesis comparing tension-band wire and Herbert screw: a biomechanical and dimensional analysis. Wyrsch B, et al.
J Hand Surg [Am] 1996 May;21(3):438–43

Biodegradable pins versus Kirschner wires in hand surgery. Jensen CH, et al. **J Hand Surg [Br]** 1996 Aug;21(4):507–10

Wrist arthrodesis using a dynamic compression plate. Sagerman SD, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):437–41

Cervical interbody xenograft with plate fixation: evaluation of fusion after 7 years of use in post-traumatic discoligamentous instability. Malca SA, et al. **Spine** 1996 Mar 15;21(6):685–90

[Revision operations after failed arthrodeses of the upper ankle joint] Eingartner C, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:941–4 (Eng. Abstr.) **(Ger)**

[Shoulder arthrodesis in deltoid paralysis] Kohn D, et al.
Orthopade 1997 Jul;26(7):630–3 (21 ref.) (Eng. Abstr.) **(Ger)**

[Case report on management of grade 4 infected open comminuted tarsus fracture by tibio-Chopart arthrodesis] Klauss R, et al. **Zentralbl Chir** 1996;121(11):1000–4 (Eng. Abstr.) **(Ger)**

METHODS

Ankle arthrodesis with cross screw fixation. Good results in 36/40 cases followed 3–7 years. Chen YJ, et al.
Acta Orthop Scand 1996 Oct;67(5):473–8

Sauvé–Kapandji operation for disorders of the distal radioulnar joint after Colles' fracture. Good results in 12 patients followed for 1.5–4 years. Mikkelsen SS, et al.
Acta Orthop Scand 1997 Feb;68(1):64–6

Intra-articular hip arthrodesis without subtrochanteric osteotomy in adolescents: technique and short-term follow-up. Schoenecker PL, et al. **Am J Orthop** 1997 Apr; 26(4):257–64

Translocation of the fifth finger by intracarpal osteotomy. Le Viet D. **Ann Chir Main** 1982;1(1):45–56 (9 ref.) **(Eng, Fre)**

Surgical treatment of Madelung disease by the Sauvé–Kapandji technique. Angelini LC, et al.
Ann Chir Main Memb Super 1996;15(4):257–64

The role of pedicled or free fibular grafts in knee arthrodesis. Hallock GG. **Ann Plast Surg** 1997 Jul;39(1):60–3 (14 ref.)

Arthroscopically assisted arthrodesis of the ankle joint. Jerosch J, et al. **Arch Orthop Trauma Surg** 1996; 115(3–4):182–9 (87 ref.)

Role of internal and external fixation in ankle fusion. Pfahler M, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):146–8

Ankle arthrodesis using an arthroscopic method: long-term follow-up of 34 cases. Glick JM, et al. **Arthroscopy** 1996 Aug;12(4):428–34

Radiolunate fusion. The forgotten partial arthrodesis. Halikis MN, et al. **Clin Orthop** 1997 Aug;(341):30–5

Use of demineralized bone matrix in hindfoot arthrodesis. Michelson JD, et al. **Clin Orthop** 1996 Apr;(325):203–8 (24 ref.)

Wrist arthrodesis. Technique and functional evaluation. Moneim MS, et al. **Clin Orthop** 1997 Aug;(341):23–9

Current status of wrist arthrodesis and wrist arthroplasty. Murray PM. **Clin Plast Surg** 1996 Jul;23(3):385–94 (63 ref.)

Surgical principles and planning for the rheumatoid hand and wrist. O'Brien ET. **Clin Plast Surg** 1996 Jul; 23(3):407–20 (43 ref.)

Arthrodesis of the first metatarsophalangeal joint in active people. Bouché RT, et al. **Clin Podiatr Med Surg** 1996 Jul; 13(3):461–84 (21 ref.)

End-to-end arthrodesis with absorbable pin and suture fixation. Giovinco JD. **Clin Podiatr Med Surg** 1996 Apr; 13(2):251–4 (6 ref.)

The Lapidus procedure. Hofbauer MH, et al.
Clin Podiatr Med Surg 1996 Jul;13(3):485–96 (25 ref.)

A comparison of end-to-end versus "V" arthrodesis procedures for the correction of digital deformities. Kimmel HM, et al. **Clin Podiatr Med Surg** 1996 Apr; 13(2):239–50 (17 ref.)

Subtalar arthrodesis using interposition iliac crest bone graft after calcaneal fracture. Amendola A, et al.
Foot Ankle Int 1996 Oct;17(10):608–14

Revision ankle fusion using internal compression arthrodesis with screw fixation [published erratum appears in Foot Ankle Int 1997 Jun;18(6):379] Anderson JG, et al.
Foot Ankle Int 1997 May;18(5):300–9

A method to facilitate compression of intramedullary ankle arthrodesis. Donatto KC. **Foot Ankle Int** 1997 Apr; 18(4):247–8

Heel anatomy for retrograde tibiotalocalcaneal roddings: a roentgenographic and anatomic analysis. Flock TJ, et al. **Foot Ankle Int** 1997 Apr;18(4):233–5

Clinical and radiographic outcome of revision surgery for failed triple arthrodesis. Haddad SL, et al.
Foot Ankle Int 1997 Aug;18(8):489–99

Talonavicular arthrodesis for the painful adult acquired flatfoot [see comments] Harper MC, et al.
Foot Ankle Int 1996 Nov;17(11):658–61. Comment in: Foot Ankle Int 1997 Jun;18(6):375–6.

Application of the tension band technique for arthrodesis of the forefoot and midfoot. Kupcha PC, et al.
Foot Ankle Int 1996 Dec;17(12):784

Triple arthrodesis: a biomechanical evaluation of screw versus staple fixation. Meyer MS, et al. **Foot Ankle Int** 1996 Dec;17(12):764–7

Results of distal tibial bone grafting in hindfoot arthrodeses. O'Malley DF Jr, et al. **Foot Ankle Int** 1996 Jul;17(7):374–7

Anterior sliding graft for tibiotalar arthrodesis. Patterson BM, et al. **Foot Ankle Int** 1997 Jun;18(6):330–4

Estimating the insertion site during retrograde intramedullary tibiotalocalcaneal arthrodesis. Stephenson KA, et al.
Foot Ankle Int 1996 Dec;17(12):781–2

Hallux valgus in the elderly: metatarsophalangeal arthrodesis of the first ray. Tourné Y, et al. **Foot Ankle Int** 1997 Apr; 18(4):195–8

Technical factors in hindfoot arthrodesis. Manoli A 2nd, et al. **Instr Course Lect** 1997;46:347–56 (23 ref.)

The role of shoulder fusion in the era of arthroplasty. González-Díaz R, et al. **Int Orthop** 1997;21(3):204–9 (25 ref.)

Resection arthrodesis of the knee in the treatment of tumours--a long-term follow-up. Salai M, et al.
Int Orthop 1997;21(2):101–3

Closed kinetic chain tarsal mechanics of subtalar joint arthroereisis. Christensen JC, et al.
J Am Podiatr Med Assoc 1996 Oct;86(10):467–73

Podiatry Institute ankle fusion technique. Mahan KT, et al.
J Am Podiatr Med Assoc 1997 Mar;87(3):101–16 (63 ref.)

Arthrodesis of the knee with a modular titanium intramedullary nail. Arroyo JS, et al.
J Bone Joint Surg Am 1997 Jan;79(1):26–35

Wrist arthrodesis in rheumatoid arthritis. A new technique using internal fixation. Pech J, et al.
J Bone Joint Surg Br 1996 Sep;78(5):783–6

Graft-enhanced arthrodesis. Catanzariti AR.
J Foot Ankle Surg 1996 Sep–Oct;35(5):463–73 (31 ref.)

Coralline hydroxyapatite bone graft substitutes. Elsinger EC, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):396–9 (17 ref.)

The misuse of the Lapidus procedure: re-evaluation of the preoperative criteria [see comments] Frankel JP, et al.
J Foot Ankle Surg 1996 Jul–Aug;35(4):355–61; discussion 371–2 (29 ref.). Comment in: J Foot Ankle Surg 1997 Jan–Feb;36(1):71–2. Comment in: J Foot Ankle Surg 1997 Jan–Feb;36(1);72–3. Comment in: J Foot Ankle Surg 1997 Jan–Feb;36(1);73–4. Comment in: J Foot Ankle Surg 1997 Jan–Feb;36(1):74–6.

The misuse of the Lapidus procedure [letter; comment] Rutherford RL. **J Foot Ankle Surg** 1997 Jan–Feb;36(1):74–6 . Comment on: J Foot Ankle Surg 1996 Jul–Aug;35(4):355–61; discussion 371–2.

Valenti arthroplasty [letter] [published erratum appears in J Foot Ankle Surg 1996 Mar–Apr;35(2):185] Saxena A.
J Foot Ankle Surg 1996 Jan–Feb;35(1):86–7

A critical look at intercarpal arthrodesis: review of the literature. Siegel JM, et al. **J Hand Surg [Am]** 1996 Jul; 21(4):717–23 (36 ref.)

A modified dorsal approach to the wrist for arthrodesis of the non-rheumatoid wrist. An anatomical study. Biyani A, et al. **J Hand Surg [Br]** 1996 Aug;21(4):434–6

Total wrist fusion. A functional assessment. Field J, et al.
J Hand Surg [Br] 1996 Aug;21(4):429–33

Effectiveness of the chevron arthrodesis in small joints of the hand. Pribyl CR, et al. **J Hand Surg [Br]** 1996 Nov; 21(6):1052–8

Clinical outcomes and radiological instability following decompressive lumbar laminectomy for degenerative spinal stenosis: a comparison of patients undergoing concomitant arthrodesis versus decompression alone. Fox MW, et al.
J Neurosurg 1996 Nov;85(5):793–802

Arthrodesis of knee joint by vascularized fibular graft. Usui M, et al. **Microsurgery** 1996;17(1):2–8

Knee Arthrodesis. Bozarth GR, et al. **Nebr Med J** 1996 Nov; 81(11):363–7; discussion 367–8

Arthrodesis after resection of bone tumors. Scarborough MT, et al. **Semin Surg Oncol** 1997 Jan–Feb;13(1):25–33 (31 ref.)

[Trapezoid–metacarpal arthrodesis] Kenesi C, et al.
Chirurgie 1996;121(6):487–91 (Eng. Abstr.) **(Fre)**

[Arthrodesis of the shoulder for post-traumatic palsy of the brachial plexus. Analysis of a series of 18 cases] Chammas M, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(5):386–95 (Eng. Abstr.) **(Fre)**

[Anterior tenoarthrolysis in flexion contracture of the fingers. Apropos of 41 cases] Foucher G, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(6):529–34 (Eng. Abstr.) **(Fre)**

[Kapandji corrective operation of post-traumatic disorder of the distal radio-ulnar joint] Zilch H, et al.
Unfallchirurg 1996 Nov;99(11):841–4 (Eng. Abstr.) **(Ger)**

[Surgical fusion of the subtalar joint--changing concepts in changing times] Fellmann J, et al.
Z Orthop Ihre Grenzgeb 1996 Jul–Aug;134(4):341–5 (35 ref.) (Eng. Abstr.) **(Ger)**

[Preliminary experiences on triscaphoid arthrodesis] Marcuzzi A, et al. **Minerva Chir** 1996 Jul–Aug; 51(7–8):537–45 (Eng. Abstr.) **(Ita)**

[Hip joint arthrodesis with vascularized bone autotransplant on fixed neurovascular pedicle] Sikilinda VD, et al.
Khirurgiia (Mosk) 1996;(4):64–6 (Eng. Abstr.) **(Rus)**

NURSING

Triple arthrodesis. Schramm CA, et al. **AORN J** 1996 Jul; 64(1):31–52; quiz 54–61 (22 ref.)

VETERINARY

Arthrodesis of the equine distal tarsal joints by perforated stainless steel cylinders. Archer RM, et al.
Equine Vet J Suppl 1988 Sep;(6):125–30

ARTHROGRAPHY

CT scans and arthro-CT scans. Drape JL, et al.
Baillieres Clin Rheumatol 1996 Nov;10(4):615–34 (13 ref.)

The value of arthrography in steroid injection of the shoulder joint [letter] Goh GJ, et al. **Br J Rheumatol** 1997 Jun; 36(6):709–10

Radiographic damage in large joints in early rheumatoid arthritis: relationship with radiographic damage in hands and feet, disease activity, and physical disability. Kuper HH, et al. **Br J Rheumatol** 1997 Aug;36(8):855–60

The radiological assessment of rheumatoid arthritis. Scott DL, et al. **Clin Exp Rheumatol** 1997 May–Jun;15 Suppl 17:S53–61 (57 ref.)

Radiographic and computed tomographic evaluation of Lisfranc dislocation: a cadaver study. Lu J, et al.
Foot Ankle Int 1997 Jun;18(6):351–5

Site and size of rotator-cuff tear. Findings at ultrasound, double-contrast arthrography, and computed tomography arthrography with surgical correlation. Farin PU, et al.
Invest Radiol 1996 Jul;31(7):387–94

Arthrography of the wrist. Assessment of the ligaments in young asymptomatic adults [letter; comment] Gilula LA, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):312–3. Comment on: J Bone Joint Surg Am 1995 Aug;77(8):1207–9.

Wrist arthrography versus arthroscopy: a comparative study of 150 cases. Chung KC, et al. **J Hand Surg [Am]** 1996 Jul;21(4):591–4

Triangular fibrocartilage and intercarpal ligaments of the wrist: does MR arthrography improve standard MRI? Zanetti M, et al. **J Magn Reson Imaging** 1997 May–Jun; 7(3):590–4

Use of ionising radiation by professional football clubs to assess asymptomatic transfer candidates. Bailey D, et al.
J R Army Med Corps 1996 Oct;142(3):114–5

Quantitative measurement of erosion growth and joint space loss in rheumatoid arthritis hand radiographs. Higgs JB, et al. **J Rheumatol** 1996 Feb;23(2):265–72

Future opportunities using technical advantages in picture processing and data transfer. Willkens RF, et al.
J Rheumatol 1995 Oct;22(10):2001–3

Magnetic resonance arthrography in the assessment of anterior instability of the shoulder: comparison with double-contrast computed tomography arthrography. Sano H, et al. **J Shoulder Elbow Surg** 1996 Jul–Aug;5(4):280–5

[MR arthrography of the shoulder joint in a postoperative patient sample] Rand T, et al. **Radiologe** 1996 Dec; 36(12):966–70 (Eng. Abstr.) **(Ger)**

[Indirect MR arthrography of the shoulder. An alternative to direct MR arthrography?] Vahlensieck M, et al.
Radiologe 1996 Dec;36(12):960–5 (Eng. Abstr.) **(Ger)**

[Pulmonary manifestations in rheumatoid arthritis: high-resolution computed tomography in correlation with the skeletal changes and the laboratory chemical changes] Müller-Leisse C, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Nov;165(5):438–44 (Eng. Abstr.) **(Ger)**

[Periarticular fractures--what should be observed?] Hald HJ.
Rontgenpraxis 1997 Jun;50(6):158–67 (41 ref.) **(Ger)**

[Development and evaluation of a modified version of the Larsen method for evaluating roentgenologic changes in chronic polyarthritis] Rau R, et al. **Z Rheumatol** 1997 May–Jun;56(3):127–35 (Eng. Abstr.) **(Ger)**

[Does parenteral gold inhibit roentgen progression of chronic polyarthritis?] Rau R. **Z Rheumatol** 1996 Sep–Oct; 55(5):307–18 (34 ref.) (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Correlation of MR imaging, CT arthrography, and arthroscopy of the shoulder. Imhoff AB, et al.
Bull Hosp Jt Dis 1996;54(3):146–52

METHODS

Diagnostic radiography in rheumatoid arthritis: benefits and limitations. Bohndorf K, et al. **Baillieres Clin Rheumatol** 1996 Aug;10(3):399–407 (17 ref.)

Quantitative radiography in osteoarthritis: microfocal radiography. Buckland-Wright JC. **Baillieres Clin Rheumatol** 1996 Aug;10(3):415–20 (18 ref.)

Quantitative radiography in osteoarthritis: computerized measurement of radiographic knee and hip joint space. Conrozier T, et al. **Baillieres Clin Rheumatol** 1996 Aug; 10(3):429–33 (13 ref.)

Quantitative radiography in osteoarthritis: analysis. Hochberg MC. **Baillieres Clin Rheumatol** 1996 Aug;10(3):421–8 (55 ref.)

Quantitative radiography in osteoarthritis: plain radiographs. Ravaud P. **Baillieres Clin Rheumatol** 1996 Aug;10(3):409–14 (23 ref.)

Plain X-rays in rheumatoid arthritis: overview of scoring methods, their reliability and applicability. van der Heijde DM. **Baillieres Clin Rheumatol** 1996 Aug;10(3):435–53 (59 ref.)

Imaging of articular pathology: MRI, CT, arthrography. Berquist TH. **Clin Anat** 1997;10(1):1–13 (35 ref.)

Contemporary imaging of athletic injuries. Tung GA, et al. **Clin Sports Med** 1997 Jul;16(3):393–417 (46 ref.)

Subtalar stress radiography using forced dorsiflexion and supination. Ishii T, et al. **J Bone Joint Surg Br** 1996 Jan; 78(1):56–60

How to apply Larsen score in evaluating radiographs of rheumatoid arthritis in long-term studies. Larsen A. **J Rheumatol** 1995 Oct;22(10):1974–5

Quantitative analysis of hand radiographs in rheumatoid arthritis: time course of radiographic changes, relation to joint examination measures, and comparison of different scoring methods. Pincus T, et al. **J Rheumatol** 1995 Oct; 22(10):1983–9

A modified version of Larsen's scoring method to assess radiologic changes in rheumatoid arthritis. Rau R, et al. **J Rheumatol** 1995 Oct;22(10):1976–82

How to evaluate measuring methods in the case of non-defined external validity. Rückmann A, et al. **J Rheumatol** 1995 Oct;22(10):1998–2000

Problems in evaluating radiographic findings in rheumatoid arthritis using different methods of radiographic scoring: examples of difficult cases and a study design to develop an improved scoring method. Wassenberg S, et al. **J Rheumatol** 1995 Oct;22(10):1990–7

The scapholunate interosseous ligament in MR arthrography of the wrist: correlation with non-enhanced MRI and wrist arthroscopy. Scheck RJ, et al. **Skeletal Radiol** 1997 May; 26(5):263–71

[Roentgen studies and arthrography of the hip joint in infancy] Tönnis D. **Orthopade** 1997 Jan;26(1):49–58 (53 ref.) (Eng. Abstr.) **(Ger)**

[Computer analysis of the radiographic image of bones and joints] Czerwiński E, et al. **Przegl Lek** 1997;54(4):257–9 (Eng. Abstr.) **(Pol)**

STANDARDS

Reference curves of radiographic damage in patients with rheumatoid arthritis: application of quantile regression and fractional polynomials. Lassere M, et al. **J Rheumatol** 1997 Jul;24(7):1288–94

VETERINARY

Characterization of anatomic communications of the fetlock in cattle, using intra-articular latex injection and positive-contrast arthrography. Desrochers A, et al. **Am J Vet Res** 1997 Jul;58(7):710–2

Arthrosonography--the use of diagnostic ultrasound in septic and traumatic arthritis in cattle--a retrospective study of 25 patients. Kofler J. **Br Vet J** 1996 Nov;152(6):683–98

Synovial fluid cavitation during distraction radiography of the coxofemoral joint in dogs. LaFond E, et al. **J Am Vet Med Assoc** 1997 May 1;210(9):1294–7

ARTHROGRYPOSIS

Transient neonatal arthrogryposis: another case [letter] Robinow M, et al. **Am J Med Genet** 1996 Dec 30;66(4):475

Nosology of fetal hypokinesia sequence based on CNS abnormalities: is there an Aase-Smith syndrome? David A, et al. **Clin Genet** 1996 Oct;50(4):251–4

Arthrogryposis, renal tubular dysfunction, cholestasis, ichthyosis syndrome (ARCI) [letter; comment] Franceschini P, et al. **Eur J Pediatr** 1997 Jan;156(1):78. Comment on: Eur J Pediatr 1995 Oct;154(10):835–9.

Freeman Sheldon syndrome: severe upper airway obstruction requiring neonatal tracheostomy. Robinson PJ. **Pediatr Pulmonol** 1997 Jun;23(6):457–9 (5 ref.)

CLASSIFICATION

A revised and extended classification of the distal arthrogryposes. Bamshad M, et al. **Am J Med Genet** 1996 Nov 11;65(4):277–81 (47 ref.)

The spectrum of arthrogryposis in 33 chinese children. Wong V. **Brain Dev** 1997 Apr;19(3):187–96

Arthrogryposis multiplex congenita: etiology, genetics, classification, diagnostic approach, and general aspects [see comments] Hall JG. **J Pediatr Orthop B** 1997 Jul; 6(3):159–66 (36 ref.). Comment in: J Pediatr Orthop B 1997 Jul;6(3):157.

COMPLICATIONS

Severe form of Freeman-Sheldon syndrome associated with brain anomalies and hearing loss. Zampino G, et al. **Am J Med Genet** 1996 Mar 29;62(3):293–6

Lethal congenital muscular dystrophy in two sibs with arthrogryposis multiplex: new entity or variant of cobblestone lissencephaly syndrome? Seidahmed MZ, et al. **Neuropediatrics** 1996 Dec;27(6):305–10

Hyperthermia during sevoflurane anaesthesia in arthrogryposis multiplex congenita with central nervous system dysfunction [letter] Kanaya N, et al. **Paediatr Anaesth** 1996;6(5):428–9

[Hip in arthrogryposis multiplex congenita] Södergard J. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):403–9 (Eng. Abstr.) **(Fre)**

[A rare cause of chronic respiratory insufficiency: arthrogryposis in adults] Rivaud E, et al. **Rev Pneumol Clin** 1997;53(1):37–40 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Arthrogryposis multiplex congenita: perinatal and electromyographic findings, disability, and psychosocial outcome. Södergård J, et al. **J Pediatr Orthop B** 1997 Jul; 6(3):167–71

ETIOLOGY

Arthrogryposis multiplex congenita: etiology, genetics, classification, diagnostic approach, and general aspects [see comments] Hall JG. **J Pediatr Orthop B** 1997 Jul; 6(3):159–66 (36 ref.). Comment in: J Pediatr Orthop B 1997 Jul;6(3):157.

Multiple congenital contractures. Vanpaemel L, et al. **J Pediatr Orthop B** 1997 Jul;6(3):172–8

Fetal akinesia sequence caused by nemaline myopathy. Lammens M, et al. **Neuropediatrics** 1997 Apr;28(2):116–9

GENETICS

A variant of Freeman-Sheldon syndrome maps to 11p15.5-pter. Krakowiak PA, et al. **Am J Hum Genet** 1997 Feb;60(2):426–32

Familial distal arthrogryposis type I. Stoll C, et al. **Ann Genet** 1996;39(2):75–80

Survival motor neuron gene deletion in the arthrogryposis multiplex congenita-spinal muscular atrophy association. Bürglen L, et al. **J Clin Invest** 1996 Sep 1;98(5):1130–2

Arthrogryposis multiplex congenita in a monozygotic twin. An intrauterine lesion? Mennen U, et al. **J Hand Surg [Br]** 1996 Oct;21(5):647–8

Arthrogryposis due to infantile neuronal degeneration associated with deletion of the SMNT gene. Bingham PM, et al. **Neurology** 1997 Sep;49(3):848–51

HISTORY

Earliest evidence for arthrogryposis multiplex congenita or Larsen syndrome? Anderson T. **Am J Med Genet** 1997 Aug 8;71(2):127–9

IMMUNOLOGY

Association of arthrogryposis multiplex congenita with maternal antibodies inhibiting fetal acetylcholine receptor function. Riemersma S, et al. **J Clin Invest** 1996 Nov 15; 98(10):2358–63

NURSING

Astute assessment by a perioperative nurse in an expanded role saves patient from malignant hyperthermia. Murphy JM. **AORN J** 1997 Jul;66(1):146

PHYSIOPATHOLOGY

Distal arthrogryposis type 1: clinical analysis of a large kindred. Bamshad M, et al. **Am J Med Genet** 1996 Nov 11;65(4):282–5

Extending the spectrum of distal arthrogryposis. Gripp KW, et al. **Am J Med Genet** 1996 Nov 11;65(4):286–90

Continuous spinal anesthesia for cesarean delivery in a patient with arthrogryposis multiplex congenita. A clinical report. Rozkowski A, et al. **Reg Anesth** 1996 Sep–Oct;21(5):477–9

PSYCHOLOGY

Arthrogryposis multiplex congenita: perinatal and electromyographic findings, disability, and psychosocial outcome. Södergård J, et al. **J Pediatr Orthop B** 1997 Jul; 6(3):167–71

RADIOGRAPHY

New syndrome of spondylospinal thoracic dysostosis with multiple pterygia and arthrogryposis. Johnson VP, et al. **Am J Med Genet** 1997 Mar 3;69(1):73–8

REHABILITATION

Principles of treatment of the upper extremity in arthrogryposis multiplex congenita type I. Axt MW, et al. **J Pediatr Orthop B** 1997 Jul;6(3):179–85

Management of knee deformity in classical arthrogryposis multiplex congenita (amyoplasia congenita). Murray C, et al. **J Pediatr Orthop B** 1997 Jul;6(3):186–91

SURGERY

Surgical treatment of clubfoot deformity in arthrogryposis multiplex congenita. Chang CH, et al. **J Formos Med Assoc** 1997 Jan;96(1):30–5

Principles of treatment of the upper extremity in arthrogryposis multiplex congenita type I. Axt MW, et al. **J Pediatr Orthop B** 1997 Jul;6(3):179–85

Arthrogrypotic joint contracture at the knee and the foot: correction with a circular frame. Brunner R, et al. **J Pediatr Orthop B** 1997 Jul;6(3):192–7

[Arthrogryposis multiplex congenita: special anesthesiological aspects] Standl T, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Feb; 31(1):53–7 (Eng. Abstr.) **(Ger)**

[Difficult tracheal intubation and abnormal response to thiopental in a patient with arthrogryposis multiplex congenita] Kimura F, et al. **Masui** 1996 Aug;45(8):1022–5 (Eng. Abstr.) **(Jpn)**

THERAPY

Arthrogryposis multiplex congenita [editorial; comment] Grill F. **J Pediatr Orthop B** 1997 Jul;6(3):157–8. Comment on: J Pediatr Orthop B 1997 Jul;6(3):159–66.

Multiple congenital contractures. Vanpaemel L, et al. **J Pediatr Orthop B** 1997 Jul;6(3):172–8

ULTRASONOGRAPHY

Lethal congenital arthrogryposis presents with increased nuchal translucency at 10–14 weeks of gestation. Hyett J, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):310–3

VETERINARY

Arthrogryposis in the foal and its possible relation to autosomal trisomy [see comments] Buoen LC, et al. **Equine Vet J** 1997 Jan;29(1):60–2. Comment in: Equine Vet J 1997 Jan;29(1):3–4.

Hydranencephaly, cerebellar hypoplasia, and myopathy in chick embryos infected with aino virus. Kitano Y, et al. **Vet Pathol** 1996 Nov;33(6):672–81

ARTHROMYODYSPLASIA, CONGENITAL see **ARTHROGRYPOSIS**

ARTHROPATHY, NEUROGENIC

CHEMICALLY INDUCED

Pefloxacin-induced arthropathy in an adolescent with brain abscess. Chang H, et al. **Scand J Infect Dis** 1996;28(6):641–3

COMPLICATIONS

Healing rates of diabetic foot ulcers associated with midfoot fracture due to Charcot's arthropathy. Lavery LA, et al. **Diabet Med** 1997 Jan;14(1):46–9

Periosteal proliferation of the fibula in Charcot foot [letter] Bituin BV, et al. **J Am Podiatr Med Assoc** 1997 Apr; 87(4):184–7

Neuropathic spinal arthropathy in Charcot-Marie-Tooth disease. A case report. Anand N, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1235–9

Cervical spine pseudogout with myelopathy and Charcot joints. Fidler WK, et al. **J Rheumatol** 1996 Aug; 23(8):1445–8

Charcot spinal arthropathy in congenital insensitivity to pain. Igram CM, et al. **Orthopedics** 1996 Mar;19(3):251–55 (44 ref.)

DIAGNOSIS

MR imaging of osteomyelitis and neuropathic osteoarthropathy in the feet of diabetics. Marcus CD, et al. **Radiographics** 1996 Nov;16(6):1337–48

[Neuro-arthropathy, a painless but very destructive disorder of frequently one joint] Geurts MA, et al. **Ned Tijdschr Geneeskd** 1996 Sep 14;140(37):1869–72 (Eng. Abstr.) **(Dut)**

ETIOLOGY

Charcot spine as a late complication of traumatic spinal cord injury. Standaert C, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):221–5

Treatment of chronic cervical zygapophyseal-joint pain [letter; comment] Drinka PJ, et al. **N Engl J Med** 1997 May 22;336(21):1530–1. Comment on: N Engl J Med 1996 Dec 5;335(23):1721–6.

PATHOLOGY

Charcot knee arthropathy with articular amyloid deposition in familial amyloidotic polyneuropathy. Shiraishi M, et al. **Scand J Rheumatol** 1997;26(1):61–4

PHYSIOPATHOLOGY

Charcot spine as a late complication of traumatic spinal cord injury. Standaert C, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):221–5

The natural history of acute Charcot's arthropathy in a

diabetic foot specialty clinic. Armstrong DG, et al. **Diabet Med** 1997 May;14(5):357–63

Measurement of markers of osteoclast and osteoblast activity in patients with acute and chronic diabetic Charcot neuroarthropathy. Gough A, et al. **Diabet Med** 1997 Jul; 14(7):527–31

Plantar pressure analysis of diabetic rockerbottom deformity in total contact casts. Martin RL, et al. **Foot Ankle Int** 1996 Aug;17(8):470–2

Monitoring healing of acute Charcot's arthropathy with infrared dermal thermometry. Armstrong DG, et al. **J Rehabil Res Dev** 1997 Jul;34(3):317–21

Infrared dermal thermometry for the high-risk diabetic foot. Armstrong DG, et al. **Phys Ther** 1997 Feb;77(2):169–75; discussion 176–7

RADIOGRAPHY

Computed tomography scanning may be misleading in imaging of neuropathic joints. Markiewitz AD, et al. **Orthopedics** 1997 Mar;20(3):268–9

SURGERY

Total knee arthroplasty in a patient with bilateral Charcot knees. Fullerton BD, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):780–2

THERAPY

The natural history of acute Charcot's arthropathy in a diabetic foot specialty clinic. Armstrong DG, et al. **Diabet Med** 1997 May;14(5):357–63

The natural history of acute Charcot's arthropathy in a diabetic foot specialty clinic. Armstrong DG, et al. **J Am Podiatr Med Assoc** 1997 Jun;87(6):272–8

Use of bivalved ankle-foot orthosis in neuropathic foot and ankle lesions. Boninger ML, et al. **J Rehabil Res Dev** 1996 Feb;33(1):16–22

ARTHROPLASTY

MR imaging findings in anterior cruciate ligament reconstruction: evaluation of notchplasty. May DA, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):217–22

MR imaging of anterior cruciate ligament reconstruction. Schatz JA, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):223–8

Total shoulder arthroplasty. Owens RA. **AORN J** 1997 May; 65(5):927–32

Arthroscopic meniscal repair in conjunction with anterior cruciate ligament reconstruction: factors affecting the healing rate. Asahina S, et al. **Arthroscopy** 1996 Oct; 12(5):541–5

Calcium phosphate ceramic coatings as carriers of vancomycin. Radin S, et al. **Biomaterials** 1997 Jun; 18(11):777–82

Propofol patient-controlled sedation during hip or knee arthroplasty in elderly patients. Ganapathy S, et al. **Can J Anaesth** 1997 Apr;44(4):385–9

Arthroplasty of rheumatoid metatarsophalangeal joints. An outcome study. Clayton ML, et al. **Clin Orthop** 1997 Jul; (340):48–57

Total joint replacement and golf. Mallon WJ, et al. **Clin Sports Med** 1996 Jan;15(1):179–90 (32 ref.)

Arthrodesis of the first metatarsophalangeal joint to salvage failed silicone implant arthroplasty. Hecht PJ, et al. **Foot Ankle Int** 1997 Jul;18(7):383–90 (63 ref.)

Is prophylactic diabetic foot surgery dangerous? Armstrong DG, et al. **J Foot Ankle Surg** 1996 Nov–Dec;35(6):585–9

X-ray changes after expanded polytetrafluoroethylene (Gore-Tex) interpositional arthroplasty. Greenberg JA, et al. **J Hand Surg [Am]** 1997 Jul;22(4):658–63

Hemiarthroplasty in rotator cuff-deficient shoulders. Williams GR Jr, et al. **J Shoulder Elbow Surg** 1996 Sep–Oct; 5(5):362–7

Total joint arthroplasty and the immune response. Toumbis CA, et al. **Semin Arthritis Rheum** 1997 Aug;27(1):44–7 (47 ref.)

ADVERSE EFFECTS

Who decides on the need for antibiotic prophylaxis in patients with major arthroplasties requiring dental treatment: is it a joint responsibility? Sandhu SS, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):143–7

Osteoarthritis and recurrences after Putti-Platt and Eden-Hybbinette operations for recurrent dislocation of the shoulder. König DP, et al. **Int Orthop** 1997;21(2):72–6

Neurologic complications after total shoulder arthroplasty. Lynch NM, et al. **J Shoulder Elbow Surg** 1996 Jan–Feb; 5(1):53–61

Is duplex venous surveillance worthwhile after arthroplasty? Brothers TE, et al. **J Surg Res** 1997 Jan;67(1):72–8

Arteriovenous fistula after temporomandibular joint arthroscopy treated with external carotid embolization. Scholl PD, et al. **Otolaryngol Head Neck Surg** 1997 Jul; 117(1):124–6

INSTRUMENTATION

Prevention of potential fracture between two implants using interlocking bipolar cut short GK nail and Enders nail. Yip KM. **Arch Orthop Trauma Surg** 1997;116(4):229–32

METHODS

Acute hemiarthroplasty after proximal humerus fracture in old patients. A retrospective evaluation of 18 patients followed for 2–7 years. Wretenberg P, et al. **Acta Orthop Scand** 1997 Apr;68(2):121–3

Chronic rupture of a patellar tendon: a technique for reconstruction with Achilles allograft. Falconiero RP, et al. **Arthroscopy** 1996 Oct;12(5):623–6

Arthroscopically assisted combined posterior cruciate ligament/posterior lateral complex reconstruction. Fanelli GC, et al. **Arthroscopy** 1996 Oct;12(5):521–30

Anterior cruciate ligament reconstruction in athletes with an ossicle associated with Osgood-Schlatter's disease. McCarroll JR, et al. **Arthroscopy** 1996 Oct;12(5):556–60

A comparison of abrasion burr arthroplasty and subchondral drilling in the treatment of full-thickness cartilage lesions in the rabbit. Menche DS, et al. **Arthroscopy** 1996 Jun; 12(3):280–6

Arthroscopic management of trapeziometacarpal joint arthritis of the thumb. Menon J. **Arthroscopy** 1996 Oct; 12(5):581–7

Arthroscopic posterior cruciate ligament reconstruction using hamstring tendons: one-incision technique with Endobutton. Shino K, et al. **Arthroscopy** 1996 Oct; 12(5):638–42

Comparison of different materials for interposition arthroplasty in treatment of temporomandibular joint ankylosis surgery: long-term follow-up in 25 cases. Chossegros C, et al. **Br J Oral Maxillofac Surg** 1997 Jun; 35(3):157–60

The use of customized long stem hemiarthroplasty in ipsilateral femoral neck and pending shaft fracture: case report. Yip KM. **Bull Hosp Jt Dis** 1996;55(2):81–2

Hemiarthroplasty in the treatment of comminuted intraarticular fractures of the proximal humerus. Dimakopoulos P, et al. **Clin Orthop** 1997 Aug;(341):7–11

Ligament reconstruction basal joint arthroplasty without tendon interposition. Gerwin M, et al. **Clin Orthop** 1997 Sep;(342):42–5

A modified darrach procedure for treatment of the painful distal radioulnar joint. Sotereanos DG, et al. **Clin Orthop** 1996 Apr;(325):140–7

Current status of wrist arthrodesis and wrist arthroplasty. Murray PM. **Clin Plast Surg** 1996 Jul;23(3):385–94 (63 ref.)

Current status of metacarpophalangeal arthroplasty and basilar joint arthroplasty of the thumb. Murray PM. **Clin Plast Surg** 1996 Jul;23(3):395–406 (73 ref.)

Surgical principles and planning for the rheumatoid hand and wrist. O'Brien ET. **Clin Plast Surg** 1996 Jul; 23(3):407–20 (43 ref.)

The combined hammer toe-mallet toe deformity with associated double corns: a retrospective review. Oliver TP, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):263–8 (9 ref.)

Digital implant arthroplasty. Sgarlato TE, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):255–62 (12 ref.)

Tendon arthroplasty of the first metatarsophalangeal joint in hallux rigidus: preliminary communication. Barca F. **Foot Ankle Int** 1997 Apr;18(4):222–8

Roger Mann Award 1995. Capsular interposition arthroplasty for severe hallux rigidus. Hamilton WG, et al. **Foot Ankle Int** 1997 Feb;18(2):68–70

Unicompartmental knee arthroplasty with patelloplasty. Antoniou J, et al. **Int Orthop** 1996;20(2):94–9

Arthrolysis of the shoulder for ruptures of the rotator cuff. Bruns J, et al. **Int Orthop** 1997;21(3):157–60

Measurement of the anteroposterior translation of the humeral head using MRI. Kiss J, et al. **Int Orthop** 1997; 21(2):77–82

Osteoarthritis and recurrences after Putti-Platt and Eden-Hybbinette operations for recurrent dislocation of the shoulder. König DP, et al. **Int Orthop** 1997;21(2):72–6

Graft selection in anterior cruciate ligament reconstruction--prospective analysis of patellar tendon autografts compared with allografts. Victor J, et al. **Int Orthop** 1997;21(2):93–7

Anterior cruciate ligament reconstruction by mini-arthrotomy. al-Zarahini S, et al. **Int Orthop** 1997; 21(3):161–3

Resection arthroplasty of the sternoclavicular joint. Rockwood CA Jr, et al. **J Bone Joint Surg Am** 1997 Mar; 79(3):387–93

Colonna arthroplasty with concomitant femoral shortening and rotational osteotomy. Long-term results. Stans AA, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):84–96

Autogenous fibular graft and silicone implant arthroplasty following resection of giant cell tumor of the metacarpal: a report of two cases. Athanasian EA, et al. **J Hand Surg [Am]** 1997 May;22(3):504–7

Extensor carpi radialis longus tendon arthroplasty in the treatment of primary trapeziometacarpal arthrosis. Atroshi I, et al. **J Hand Surg [Am]** 1997 May;22(3):419–27

Carpometacarpal arthritis of the thumb. Damen A, et al. **J Hand Surg [Am]** 1996 Sep;21(5):807–12

Kinematics of the trapeziometacarpal joint: a biomechanical analysis comparing tendon interposition arthroplasty and total-joint arthroplasty. Imaeda T, et al. **J Hand Surg [Am]** 1996 Jul;21(4):544–53

Palmar plate interposition (Tupper) arthroplasty for post-traumatic metacarpophalangeal osteoarthritis. Bolis GU, et al. **J Hand Surg [Br]** 1997 Feb;22(1):94–5

Bilateral osteoarthritis of the trapeziometacarpal joint treated by bilateral tendon interposition arthroplasty. Damen A, et al. **J Hand Surg [Br]** 1997 Feb;22(1):96–9

Arthroplasty in the goat hip. Khalily C, et al. **J Invest Surg** 1997 May–Jun;10(3):119–23

Modular shoulder arthroplasty. Gartsman GM, et al. **J Shoulder Elbow Surg** 1997 Jul–Aug;6(4):333–9

Weinert and Giachino ligament arthroplasty for the surgical treatment of chronic superior tibiofibular joint instability. Cazeneuve JF, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):36–7

Vascularized fibular graft for reconstruction of the wrist after excision of giant cell tumor. Ono H, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1086–93

[Comparative study of the treatment of radial head fractures by resection or by Swanson silastic implant] Maynou C, et al. **Acta Orthop Belg** 1996;62 Suppl 1:105–11 **(Fre)**

[Resection arthroplasty in the treatment of hallux valgus] Viladot R, et al. **Orthopade** 1996 Aug;25(4):324–31 (Eng. Abstr.) **(Ger)**

[The results of operations for open reduction with capsular hip joint arthroplasty in congenital hip dislocation in children] Khalkhodzhaev M, et al. **Vestn Khir Im I I Grek** 1996;155(4):45–6 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Fatigue after major joint arthroplasty: relationship to preoperative fatigue and postoperative emotional state. Aarons H, et al. **J Psychosom Res** 1996 Sep;41(3):225–33

STATISTICS & NUMERICAL DATA

Need for a national arthroplasty register. Funding is important [letter; comment] Fender D, et al. **BMJ** 1996 Oct 19;313(7063):1007. Comment on: BMJ 1996 Jul 13;313(7049):66–7.

Need for a national arthroplasty register. Intensive Care Society has set up a centre for national audit [letter; comment] Rowan K. **BMJ** 1996 Oct 19;313(7063):1007–8 . Comment on: BMJ 1996 Jul 13;313(7049):66–7.

Total joint arthroplasty in a predominantly African-American population, part one: knee arthroplasty. Horton RM, et al. **J Natl Med Assoc** 1996 Mar;88(3):153–7

TRENDS

Prevalence of hip problems in the population aged 55 years and over: access to specialist care and future demand for hip arthroplasty. Fear J, et al. **Br J Rheumatol** 1997 Jan; 36(1):74–6

VETERINARY

[Excision arthroplasty of the hip joint in dogs and cats. Clinical, radiographic and gait analysis findings at the surgical veterinary clinic of the Ludwig Maximilians University of Munich] Off W, et al. **Tierarztl Prax** 1997 Jul;25(4):379–87 (Eng. Abstr.) **(Ger)**

[Excision arthroplasty of the hip joint in dogs and cats. Long-term results of the veterinary surgery clinic at the Justus Liebig University of Giessen] Tacke S, et al. **Tierarztl Prax** 1997 Jul;25(4):373–8 (Eng. Abstr.) **(Ger)**

ARTHROPLASTY, REPLACEMENT see **JOINT PROSTHESIS**

ARTHROPLASTY, REPLACEMENT, HIP see **HIP PROSTHESIS**

ARTHROPLASTY, REPLACEMENT, KNEE see **KNEE PROSTHESIS**

ARTHROPOD-BORNE VIRUSES see **ARBOVIRUSES**

ARTHROPOD VECTORS

Remotely sensed surrogates of meteorological data for the study of the distribution and abundance of arthropod vectors of disease. Hay SI, et al. **Ann Trop Med Parasitol** 1996 Feb;90(1):1–19 (93 ref.)

Ecological implications of control strategies: arthropods of domestic and production animals. Petney TN. **Int J Parasitol** 1997 Feb;27(2):155–65 (121 ref.)

Primary isolation of spotted fever group rickettsiae from Amblyomma cooperi collected from Hydrochaeris hydrochaeris in Brazil. de Lemos ER, et al. **Mem Inst Oswaldo Cruz** 1996 May–Jun;91(3):273–5

Borrelia burgdorferi sensu lato in an endemic environment: wild sika deer (Cervus nippon yesoensis) with infected ticks and antibodies. Isogai E, et al. **Microbiol Immunol** 1996; 40(1):13–19

Biological control. Aspects of biological control--with special reference to arthropods, protozoans and helminths of domesticated animals. Grønvold J, et al. **Vet Parasitol** 1996 Aug;64(1-2):47–64 (61 ref.)

[Population density of chigger mites, the vector of tsutsugamushi disease in Chollanam-do, Korea] Song HJ, et al. **Korean J Parasitol** 1996 Mar;34(1):27–33 (Eng. Abstr.) **(Kor)**

[Ticks as a reservoir of Borrelia burgdorferi and Coxiella burnetii on Polish terrain] Tylewska-Wierzbanowska S, et al. **Przegl Epidemiol** 1996;50(3):245–51 (Eng. Abstr.) **(Pol)**

GENETICS

Genetic variation in arthropod vectors of disease-causing organisms: obstacles and opportunities. Gooding RH. **Clin Microbiol Rev** 1996 Jul;9(3):301-20 (196 ref.)

MICROBIOLOGY

Characterization of Orientia tsutsugamushi isolated in Taiwan by immunofluorescence and restriction fragment length polymorphism analyses. Tamura A, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):225-31

Fatal attraction or how do we get tick bites? Kahl O. **Infection** 1996 Sep-Oct;24(5):394-5 (5 ref.)

Ixodes pacificus (Acari: Ixodidae) as a vector of Ehrlichia equi (Rickettsiales: Ehrlichieae). Richter PJ Jr, et al. **J Med Entomol** 1996 Jan;33(1):1-5

The etiological agent of Lyme disease, Borrelia burgdorferi, in ticks (Acari:Ixodidae) from eastern Poland. Wegner Z, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):93-106

PARASITOLOGY

Ticks and Borrelia: model systems for investigating pathogen-arthropod interactions. Schwan TG. **Infect Agents Dis** 1996 Jun;5(3):167-81 (120 ref.)

Description of cysticercoid of Coronacanthus vassilevi Genov, 1980 (Cestoda:Hymenolepididae). Tkach VV. **Parasite** 1994 Jun;1(2):161-5

PATHOGENICITY

[The concept of medical entomology: the management of the influence of arthropods on human health] Rasnitsyn SP. **Izv Akad Nauk Ser Biol** 1997 Mar-Apr;(2):196-203 (Eng. Abstr.) **(Rus)**

VIROLOGY

Detection of the tick-borne encephalitis virus (TBEV) in ticks in several federal "Länder" of Germany by means of the polymerase chain reaction (PCR)--characterization of the virus. Süss J, et al. **Infection** 1996 Sep-Oct;24(5):403-4

ARTHROPOD VENOMS

Preventing insect sting anaphylaxis. Hollingsworth H. **JAMA** 1997 Apr 16;277(15):1196-7

ADMINISTRATION & DOSAGE

The sting challenge test in Hymenoptera venom allergy. Position paper of the Subcommittee on Insect Venom Allergy of the European Academy of Allergology and Clinical Immunology. Ruëff F, et al. **Allergy** 1996 Apr; 51(4):216-25 (79 ref.)

ADVERSE EFFECTS

Intracerebral haemorrhage after contact with Lonomia caterpillars [letter] Duarte AC, et al. **Lancet** 1996 Oct 12; 348(9033):1033

Giant millipede 'burns' and the eye. Hudson BJ, et al. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr;91(2):183-5

ANALYSIS

Effect of cooking on the concentration of toxins associated with paralytic shellfish poison in lobster hepatopancreas. Lawrence JF, et al. **Toxicon** 1994 Jan;32(1):57-64

BIOSYNTHESIS

Toxins produced by arthropod parasites: salivary gland proteins of human body lice and venom proteins of chelonine wasps. Jones D, et al. **Toxicon** 1996 Nov-Dec; 34(11-12):1421-9 (32 ref.)

CHEMISTRY

Hymenoptera venom proteins. Hoffman DR. **Adv Exp Med Biol** 1996;391:169-86 (159 ref.)

IMMUNOLOGY

Effect of immunotherapy on sCD23 levels in patients allergic to Hymenoptera venom. Forman SO, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):282-4

CD28 expression is increased in venom allergic patients but is not modified by specific immunotherapy [see comments] Tsicopoulos A, et al. **Clin Exp Allergy** 1996 Oct; 26(10):1119-24. Comment in: Clin Exp Allergy 1996 Oct;26(10):1101-4.

The renin-angiotensin system in patients with repeated anaphylactic reactions during hymenoptera venom hyposensitization and sting challenge. Hermann K, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):251-6

Immunochemical studies of stinging insect venom allergens. King TP. **Toxicon** 1996 Nov-Dec;34(11-12):1455-8 (23 ref.)

[Histamine liberation in vitro or histamine release (HR). Study of the threshold of positivity in allergy to hymenopteran venoms] Sabbah A, et al. **Allerg Immunol (Paris)** 1997 Apr;29(4):92-100 (Eng. Abstr.) **(Fre)**

METABOLISM

Structure and experimental uses of arthropod venom proteins. Jones D. **Adv Exp Med Biol** 1996;391:379-86 (45 ref.)

PHARMACOLOGY

Degradation of human factor XIII by lonomin V, a purified fraction of Lonomia achelous caterpillar venom. Guerrero BA, et al. **Thromb Res** 1997 Jul 15;87(2):171-81

Lonomia achelous caterpillar venom (LACV) selectively inactivates blood clotting factor XIII. Guerrero Guerrero BA, et al. **Thromb Res** 1997 Jul 1;87(1):83-93

THERAPEUTIC USE

CD28 expression is increased in venom allergic patients but is not modified by specific immunotherapy [see comments] Tsicopoulos A, et al. **Clin Exp Allergy** 1996 Oct; 26(10):1119-24. Comment in: Clin Exp Allergy 1996 Oct;26(10):1101-4.

Stinging insect hypersensitivity in children. Graft DF. **Curr Opin Pediatr** 1996 Dec;8(6):597-600 (23 ref.)

TOXICITY

A microinjection technique using Drosophila melanogaster for bioassay-guided isolation of neurotoxins in arthropod venoms. Escoubas P, et al. **Toxicon** 1995 Dec; 33(12):1549-55

Toxins produced by arthropod parasites: salivary gland proteins of human body lice and venom proteins of chelonine wasps. Jones D, et al. **Toxicon** 1996 Nov-Dec; 34(11-12):1421-9 (32 ref.)

ARTHROPODS

Incidence of Armillifer armillatus (pentastome) calcification in the abdomen. Nzeh DA, et al. **Cent Afr J Med** 1996 Jan;42(1):29-31 (08 ref.)

Bugs and bites. Elston DM. **Del Med J** 1996 Sep;68(9):445-50 (13 ref.)

Ecological implications of control strategies: arthropods of domestic and production animals. Petney TN. **Int J Parasitol** 1997 Feb;27(2):155-65 (121 ref.)

Arthropod succession on exposed carrion in three contrasting tropical habitats on Hawaii Island, Hawaii. Richards EN, et al. **J Med Entomol** 1997 May;34(3):328-39

Viper's blood and bile. Zhang QY, et al. **Lancet** 1997 Jan 25;349(9047):250

Biology and biological action of the defensive secretion from a Jamaican millipede. Williams LA, et al. **Naturwissenschaften** 1997 Apr;84(4):143-4

The comparative host status of red veld rats (Aethomys chrysophilus) and bushveld gerbils (Tatera leucogaster) for epifaunal arthropods in the southern Kruger National Park, South Africa. Braack LE, et al. **Onderstepoort J Vet Res** 1996 Jun;63(2):149-58

[The concept of medical entomology: the determination of the effect of arthropods on human health] Rasnitsyn SP. **Izv Akad Nauk Ser Biol** 1996 Jul-Aug;(4):437-45 (87 ref.) (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

Improved fixation and contrast of insect Malpighian tubules using osmium tetroxide-potassium ferricyanide. Felgenhauer BE, et al. **Microsc Res Tech** 1996 Nov 1; 35(4):361-2

CHEMISTRY

Giant millipede 'burns' and the eye. Hudson BJ, et al. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr;91(2):183-5

[Antineoplastic glycoproteins in marine invertebrates] Yamazaki M, et al. **Gan To Kagaku Ryoho** 1997 Sep; 24(11):1477-85 (19 ref.) (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

A comparison of parasitic helminths and arthropods from two subspecies of fox squirrels (Sciurus niger) in Florida. Coyner DF, et al. **J Wildl Dis** 1996 Jul;32(3):492-7

Mitochondrial gene arrangement of the horseshoe crab Limulus polyphemus L.: conservation of major features among arthropod classes. Staton JL, et al. **Mol Biol Evol** 1997 Aug;14(8):867-74

Evidence for a clade of nematodes, arthropods and other moulting animals. Aguinaldo AM, et al. **Nature** 1997 May 29;387(6632):489-93

[Collecting insects, spiders and crustaceans for criminal forensic study] Benecke M. **Arch Kriminol** 1997 May-Jun; 199(5-6):167-76 (40 ref.) (Eng. Abstr.) **(Ger)**

[Parasitic arthropods of Bison bonasus from the Białowieza primeval forest] Kadulski S, et al. **Wiad Parazytol** 1996; 42(2):255-60 (Eng. Abstr.) **(Pol)**

DRUG EFFECTS

The impact of insecticides on beneficial arthropods in cotton agro-ecosystems in South Africa. van Hamburg H, et al. **Arch Environ Contam Toxicol** 1997 Jan;32(1):63-8

Effect of dimethoate on body growth of representatives of the soil living mesofauna. Folker-Hansen P, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):207-16

Effects of terbuthylazine on soil fauna and decomposition processes. Salminen J, et al. **Ecotoxicol Environ Saf** 1996 Jul;34(2):184-9

Effects of temperature on the relative toxicities of Cd, Cu, Pb, and Zn to Folsomia candida (Collembola). Sandifer RD, et al. **Ecotoxicol Environ Saf** 1997 Jul;37(2):125-30

The influence of soil moisture content on the bioavailability and toxicity of cadmium for Folsomia candida Willem (Collembola: Isotomidae). van Gestel CA, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):123-32

EMBRYOLOGY

Genetic evidence for the subdivision of the arthropod limb into coxopodite and telopodite. González-Crespo S, et al. **Development** 1996 Dec;122(12):3921-8

Dorsal or ventral: similarities in fate maps and gastrulation patterns in annelids, arthropods and chordates. Arendt D, et al. **Mech Dev** 1997 Jan;61(1-2):7-21 (97 ref.)

Investigation of different ontogenetic stages of Raillietiella sp. (Pentastomida:Cephalobaenida): the embryonic gland--glandula embryonalis--or dorsalorgan. Stender-Seidel S, et al. **Parasitol Res** 1997;83(2):157-62

GENETICS

Evolution of the entire arthropod Hox gene set predated the origin and radiation of the onychophoran/arthropod clade. Grenier JK, et al. **Curr Biol** 1997 Aug 1;7(8):547-53

Five major subfamilies of mariner transposable elements in insects, including the Mediterranean fruit fly, and related arthropods. Robertson HM, et al. **Insect Mol Biol** 1993; 2(3):125-39

Phylogenetic relationships of annelids, molluscs, and arthropods evidenced from molecules and morphology. Kim CB, et al. **J Mol Evol** 1996 Sep;43(3):207-15

Molecular phylogeny of the major arthropod groups indicates polyphyly of crustaceans and a new hypothesis for the origin of hexapods. Regier JC, et al. **Mol Biol Evol** 1997 Sep;14(9):902-13

GROWTH & DEVELOPMENT

Linguatula serrata (Frolich 1789) nymphs in lungs of goats in iran. Saiyari M, et al. **Trop Anim Health Prod** 1996 Nov; 28(4):312-4

IMMUNOLOGY

Importance of tropomyosin in the allergy to household arthropods. Cross-reactivity with other invertebrate extracts. Martinez A, et al. **Allergol Immunopathol (Madr)** 1997 May-Jun;25(3):118-26

Silverfish protein in house dust in relation to mite and total arthropod level. Witteman AM, et al. **Clin Exp Allergy** 1996 Oct;26(10):1171-6

MICROBIOLOGY

Spiroplasmas: infectious agents of plants, arthropods and vertebrates. Bové JM. **Wien Klin Wochenschr** 1997 Aug 8;109(14-15):604-12 (70 ref.)

PARASITOLOGY

Host recognition behaviour predicts host suitability in the entomopathogenic nematode Steinernema carpocapsae (Rhabditida:Steinernematidae). Lewis EE, et al. **Parasitology** 1996 Dec;113 (Pt 6):573-9

PATHOGENICITY

[The concept of medical entomology: the management of the influence of arthropods on human health] Rasnitsyn SP. **Izv Akad Nauk Ser Biol** 1997 Mar-Apr;(2):196-203 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Molecular biology and electrophysiology of glutamate-gated chloride channels of invertebrates. Cully DF, et al. **Parasitology** 1996;113 Suppl:S191-200 (64 ref.)

Millipede defense: use of detachable bristles to entangle ants. Eisner T, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):10848-51

[Further studies on parasitic arthropods of the elk Alces alces in Poland] Kadulski S. **Wiad Parazytol** 1996;42(3):349-55 (Eng. Abstr.) **(Pol)**

ULTRASTRUCTURE

Investigation of different ontogenetic stages of Raillietiella sp. (Pentastomida:Cephalobaenida): accessory genital glands. Stender-Seidel S, et al. **Parasitol Res** 1997; 83(3):264-8

Investigation of different ontogenetic stages of Raillietiella sp. (Pentastomida:Cephalobaenida): hypodermal gland cells. Stender-Seidel S, et al. **Parasitol Res** 1997; 83(3):269-72

Investigation of different ontogenetic stages of Raillietiella sp. (Pentastomida:Cephalobaenida): the embryonic gland--glandula embryonalis--or dorsalorgan. Stender-Seidel S, et al. **Parasitol Res** 1997;83(2):157-62

Investigation of different ontogenetic stages of Raillietiella sp. (Pentastomida: Cephalobaenida). Structure of the foregut and considerations about the feeding process. Thomas G, et al. **Parasitol Res** 1996;82(5):459-67

ARTHROSCOPY

No additional analgesic effect of intra-articular morphine or

bupivacaine compared with placebo after elective knee arthroscopy. Aasbø V, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):585–8

Analgesia following arthroscopy—a comparison of intra-articular morphine, pethidine and fentanyl. Söderlund A, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):6–11

Knee arthroscopy and venous blood flow in the lower leg. Sperber A, et al. **Acta Orthop Scand** 1996 Dec;67(6):553–6

Osteonecrosis after contact neodymium:yttrium aluminum garnet arthroscopic laser meniscectomy. Janzen DL, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):855–8

Endoscopic anterior cruciate ligament reconstruction: complication of graft rupture and a method of salvage. Arciero RA. **Am J Knee Surg** 1996 Winter;9(1):27–31

Arthroscopic reconstruction of the ACL with semitendinosus–gracilis autograft in skeletally immature adolescent patients. Matava MJ, et al. **Am J Knee Surg** 1997 Spring;10(2):60–9

Arthroscopic anterior labral reconstruction using a transglenoid suture technique: results in active-duty military patients [letter; comment] Fleiss DJ. **Am J Sports Med** 1996 Nov–Dec;24(6):866–7. Comment on: Am J Sports Med 1996 May–Jun;24(3):268–74.

Elongation of arthroscopically tied knots. Mishra DK, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):113–7

A comparison of results in acute and chronic anterior cruciate ligament ruptures of arthroscopically assisted autogenous patellar tendon reconstruction. Noyes FR, et al. **Am J Sports Med** 1997 Jul–Aug;25(4):460–71

Lack of efficacy of intra-articular opioids for analgesia after day-case arthroscopy. Wrench IJ, et al. **Anaesthesia** 1996 Oct;51(10):920–2

Postarthroscopic meniscus repair analgesia with intraarticular ketorolac or morphine [letter; comment] Cook TM, et al. **Anesth Analg** 1997 Feb;84(2):466–7. Comment on: Anesth Analg 1996 May;82(5):1036–9.

A comparison of oral ketorolac and hydrocodone-acetaminophen for analgesia after ambulatory surgery: arthroscopy versus laparoscopic tubal ligation. White PF, et al. **Anesth Analg** 1997 Jul;85(1):37–43

Intravascular absorption of glycine irrigating solution during shoulder arthroscopy: a case report and follow-up study. Ichai C, et al. **Anesthesiology** 1996 Dec;85(6):1481–5

Arthroscopic treatment of osteochondral lesion of the talus. Chin TW, et al. **Ann Acad Med Singapore** 1996 Mar; 25(2):236–40

Clinical experience in temporomandibular joint arthroscopy. Go WS, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):679–82

Arthroscopy of the knee. Satku K, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):703–7 (29 ref.)

Impact of MRI on a knee arthroscopy waiting list. Williams RL, et al. **Ann R Coll Surg Engl** 1996 Sep;78(5):450–2

Cardiovascular toxicity following preincisional intra-articular injection of bupivicaine [letter] Abbott PJ Jr, et al. **Arthroscopy** 1997 Apr;13(2):282

Ankle arthroscopy: outcome in 79 consecutive patients. Amendola A, et al. **Arthroscopy** 1996 Oct;12(5):565–73

Arthroscopic internal fixation of fractures of the intercondylar eminence of the tibia. Ando T, et al. **Arthroscopy** 1996 Oct;12(5):616–22

Arthroscopic meniscal repair in conjunction with anterior cruciate ligament reconstruction: factors affecting the healing rate. Asahina S, et al. **Arthroscopy** 1996 Oct; 12(5):541–5

Preliminary results of the T-fix endoscopic meniscus repair technique in an anterior cruciate ligament reconstruction population. Barrett GR, et al. **Arthroscopy** 1997 Apr; 13(2):218–23

Arthroscopic assistance for unselected tibial plateau fractures. Bernfeld B, et al. **Arthroscopy** 1996 Oct;12(5):598–602

Total ulnar nerve transection during endoscopic carpal tunnel release. del Piñal F, et al. **Arthroscopy** 1997 Apr;13(2):235–7

The efficacy of arthroscopy following total knee replacement. Diduch DR, et al. **Arthroscopy** 1997 Apr; 13(2):166–71

Partial necrosis of the neck of the talus treated with arthroscopy. Espejo Baena A, et al. **Arthroscopy** 1997 Apr; 13(2):245–7

Arthroscopically assisted combined posterior cruciate ligament/posterior lateral complex reconstruction. Fanelli GC, et al. **Arthroscopy** 1996 Oct;12(5):521–30

Arthroscopic assessment of rotator cuff tear reparability. Gartsman GM. **Arthroscopy** 1996 Oct;12(5):546–9

Arthroscopic management of refractory shoulder stiffness. Harryman DT 2nd, et al. **Arthroscopy** 1997 Apr; 13(2):133–47

Direct posterior-posterior triangulation of the knee joint. Kim JM. **Arthroscopy** 1997 Apr;13(2):262–4

Bilateral complete discoid medial menisci combined with anomalous insertion and cyst formation. Kim SJ, et al. **Arthroscopy** 1996 Feb;12(1):112–5

Arthroscopic anatomy of the infrapatellar plica. Kim SJ, et al. **Arthroscopy** 1996 Oct;12(5):561–4

The 'N + 7 rule' for tibial tunnel placement in endoscopic anterior cruciate ligament reconstruction [letter; comment] Kurzweil PR. **Arthroscopy** 1996 Jun;12(3):392–4. Comment on: Arthroscopy 1996 Feb;12(1):124–6.

An intermeniscal fibrous band in a recreational runner [letter; comment] Lambert KL. **Arthroscopy** 1996 Jun;12(3):391–2 . Comment on: Arthroscopy 1995 Dec;11(6):735–7.

Local anesthesia in outpatient knee arthroscopy: a comparison of efficacy and cost. Lintner S, et al. **Arthroscopy** 1996 Aug;12(4):482–8

Arthroscopic repair of the posterior cruciate ligament in a 3-year-old child. Lobenhoffer P, et al. **Arthroscopy** 1997 Apr;13(2):248–53

Arthroscopic management of trapeziometacarpal joint arthritis of the thumb. Menon J. **Arthroscopy** 1996 Oct; 12(5):581–7

Symptomatic cyamella. Mishra AK, et al. **Arthroscopy** 1996 Jun;12(3):327–9

Osteonecrosis of the knee following arthroscopic meniscectomy in patients over 50-years old. Muscolo DL, et al. **Arthroscopy** 1996 Jun;12(3):273–9

Arthroscopic management of tibial plateau fractures: special techniques. Perez Carro L. **Arthroscopy** 1997 Apr; 13(2):265–7

Endoscopically assisted patella-tendon graft femoral fixation failure [letter; comment] Prietto MP. **Arthroscopy** 1997 Apr;13(2):281. Comment on: Arthroscopy 1996 Apr;12(2):232–5.

Arthroscopic extra-articular Bankart repair for the treatment of recurrent anterior shoulder dislocation. Resch H, et al. **Arthroscopy** 1997 Apr;13(2):188–200

Arthroscopic reconstruction of traumatic anterior instability of the shoulder: the Caspari technique. Savoie FH 3rd, et al. **Arthroscopy** 1997 Apr;13(2):201–9

Arthroscopically assisted reconstruction of the anterior cruciate ligament: initial clinical experience and minimal 2-year follow-up comparing endoscopic transtibial and two-incision techniques. Sgaglione NA, et al. **Arthroscopy** 1997 Apr;13(2):156–65

Arthroscopic posterior cruciate ligament reconstruction using hamstring tendons: one-incision technique with Endobutton. Shino K, et al. **Arthroscopy** 1996 Oct; 12(5):638–42

Completing arthroscopic knots with a broken suture limb. Tauro JC. **Arthroscopy** 1997 Apr;13(2):268–70

Arthroscopic repair of the triangular fibrocartilage complex. Trumble TE, et al. **Arthroscopy** 1996 Oct;12(5):588–97

Arthroscopy of the ankle joint. van Dijk CN, et al. **Arthroscopy** 1997 Feb;13(1):90–6

The bifurcate coracoacromial ligament: an arthroscopic variant. Williams A, et al. **Arthroscopy** 1997 Apr; 13(2):233–4

Arthroscopic surgery [letter; comment] McNamara D, et al. **Aust Dent J** 1997 Apr;42(2):140–1. Comment on: Aust Dent J 1997 Feb;42(1):67.

Efficacy of arthroscopic surgery and midlaser treatments for chronic temporomandibular joint articular disc derangement following motor vehicle accident [see comments] McNamara DC, et al. **Aust Dent J** 1996 Dec; 41(6):377–87. Comment in: Aust Dent J 1997 Feb;42(1):67.

Day case knee arthroscopy under regional anaesthesia, performed by rheumatologists. Smith MD, et al. **Aust N Z J Med** 1996 Feb;26(1):108–9

Clinical results of therapeutic temporomandibular joint arthroscopy: a prospective study of 34 arthroscopies with prediscal section and retrodiscal coagulation. Chossegros C, et al. **Br J Oral Maxillofac Surg** 1996 Dec;34(6):504–7

Proposed scoring system for assessing synovial membrane abnormalities at arthroscopy in knee osteoarthritis. Ayral X, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:14–7

A comparison of three regional anaesthesia techniques for outpatient knee arthroscopy. Goranson BD, et al. **Can J Anaesth** 1997 Apr;44(4):371–6

Arthroscopy assisted operative management of tibial plateau fractures. Buchko GM, et al. **Clin Orthop** 1996 Nov; (332):29–36 (19 ref.)

Treatment of tibial pilon fractures using ring fixators and arthroscopy. Kim HS, et al. **Clin Orthop** 1997 Jan; (334):244–50

Shoulder arthroscopy. New concepts. Burkhart SS. **Clin Sports Med** 1996 Oct;15(4):635–53 (106 ref.)

Rehabilitation of the athlete after shoulder arthroscopy. Buuck DA, et al. **Clin Sports Med** 1996 Oct;15(4):655–72 (29 ref.)

Introduction to the basics of arthroscopy of the knee. Cautilli R Jr. **Clin Sports Med** 1997 Jan;16(1):1–16 (23 ref.)

Arthroscopy of the foot and ankle in the athlete. Cooper PS, et al. **Clin Sports Med** 1996 Oct;15(4):805–24 (68 ref.)

Shoulder arthroscopy in the throwing athlete. Craig EV. **Clin Sports Med** 1996 Oct;15(4):673–700 (13 ref.)

Elbow arthroscopy in the athlete. Day B. **Clin Sports Med** 1996 Oct;15(4):785–97 (21 ref.)

Arthroscopic medial meniscal repair in the athlete. DeHaven KE, et al. **Clin Sports Med** 1997 Jan;16(1):69–86 (49 ref.)

Synovial plicae of the knee. Controversies and review. Dupont JY. **Clin Sports Med** 1997 Jan;16(1):87–122 (86 ref.)

Arthroscopy of the wrist in athletes. Ekman EF, et al. **Clin Sports Med** 1996 Oct;15(4):753–68 (40 ref.)

Open or arthroscopic lateral release. Indications, techniques, and rehabilitation. Ford DH, et al. **Clin Sports Med** 1997 Jan;16(1):29–49 (55 ref.)

Arthroscopic treatment of the degenerative knee in older athletes. Goldman RT, et al. **Clin Sports Med** 1997 Jan; 16(1):51–68 (45 ref.)

Arthroscopic findings in ankle ligament reconstruction. Kibler WB. **Clin Sports Med** 1996 Oct;15(4):799–804

Arthroscopic decompression of the shoulder in athletes. Kolowich PA. **Clin Sports Med** 1996 Oct;15(4):701–13 (44 ref.)

Arthroscopic treatment of rotator cuff disorders. Peterson CA 2nd, et al. **Clin Sports Med** 1996 Oct;15(4):715–36 (78 ref.)

Arthroscopy of the patellofemoral joint. Pidoriano AJ, et al. **Clin Sports Med** 1997 Jan;16(1):17–28 (30 ref.)

Arthroscopic posterior cruciate ligament reconstruction. Schulte KR, et al. **Clin Sports Med** 1997 Jan;16(1):145–56 (22 ref.)

Arthroscopic Bankart repair. Shea KP. **Clin Sports Med** 1996 Oct;15(4):737–51 (37 ref.)

Arthroscopic anterior cruciate ligament reconstruction. Veltri DM. **Clin Sports Med** 1997 Jan;16(1):123–44 (56 ref.)

Intraarticular morphine administration provides pain relief after knee arthroscopy. Kanbak M, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):153–6

Arthroscopic treatment of anterior ankle impingement. Branca A, et al. **Foot Ankle Int** 1997 Jul;18(7):418–23

Knee arthroscopy in the office. Michalska M. **Hosp Pract (Off Ed)** 1997 Mar 15;32(3):179–82, 184, 190

Temporomandibular arthropathy: correlation between clinical signs and symptoms and arthroscopic findings. Holmlund AB, et al. **Int J Oral Maxillofac Surg** 1996 Jun; 25(3):178–81

MRI can prevent unnecessary arthroscopy [see comments] Carmichael IW, et al. **J Bone Joint Surg Br** 1997 Jul; 79(4):624–5. Comment in: J Bone Joint Surg Br 1997 Jul;79(4):520.

Arthroscopy and MRI for the knee [editorial; comment] Dandy DJ. **J Bone Joint Surg Br** 1997 Jul;79(4):520. Comment on: J Bone Joint Surg Br 1997 Jul;79(4):624–5.

Treatment of chronic rotator-cuff impingement by arthroscopic subacromial decompression. Nutton RW, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):73–6

Arthroscopy for problems after ankle fracture. van Duk CN, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):280–4

Wrist arthrography versus arthroscopy: a comparative study of 150 cases. Chung KC, et al. **J Hand Surg [Am]** 1996 Jul;21(4):591–4

Ulna-shortening osteotomy after failed arthroscopic debridement of the triangular fibrocartilage complex. Hulsizer D, et al. **J Hand Surg [Am]** 1997 Jul;22(4):694–8

Isolated tears of the triangular fibrocartilage: management by early arthroscopic repair. Trumble TE, et al. **J Hand Surg [Am]** 1997 Jan;22(1):57–65

Arthroscopic debridement alone for intercarpal ligament tears. Weiss AP, et al. **J Hand Surg [Am]** 1997 Mar; 22(2):344–9

The role of arthroscopy in the investigation of wrist disorders. Jones WA, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):442–5

Virtual reality in surgical arthroscopic training. Müller WK, et al. **J Image Guid Surg** 1995;1(5):288–94

Correlation between arthroscopic diagnosis of osteoarthritis and synovitis of the human temporomandibular joint and keratan sulfate levels in the synovial fluid. Israel HA, et al. **J Oral Maxillofac Surg** 1997 Mar;55(3):210–7; discussion 217–8

The efficacy of cryotherapy following arthroscopic knee surgery. Lessard LA, et al. **J Orthop Sports Phys Ther** 1997 Jul;26(1):14–22

Osteochondral lesions in the radiocapitellar joint in the skeletally immature: radiographic, MRI, and arthroscopic findings in 13 consecutive cases. Janarv PM, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):311–4

Deliberate self-harm as a cause of persistent discharge from arthroscopic portals. Brown JN, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):252–3

Arthroscopic anterior cruciate ligament transection induces canine osteoarthritis. Marshall KW, et al. **J Rheumatol** 1996 Feb;23(2):338–43

Arthroscopic debridement of knee joint arthritis: effect of advancing articular degeneration. Linschoten NJ, et al. **J South Orthop Assoc** 1997 Spring;6(1):25–36

Caveat arthroscopy: definition and guidelines for prevention. Schwartz HS, et al. **J South Orthop Assoc** 1996 Summer; 5(2):96–100

Magnetic resonance imaging versus arthroscopy for the investigation of the osteochondral humeral defect in anterior shoulder instability. A double-blind prospective study. Denti M, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):184–6

Comparison between magnetic resonance imaging and arthroscopy in the diagnosis of patellar cartilage lesions: a prospective study. Vallotton JA, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):157–62

Coronal fat suppression fast spin echo images of the knee: evaluation of 202 patients with arthroscopic correlation. Kojima KY, et al. **Magn Reson Imaging** 1996;14(9):1017–22

Diagnostic and therapeutic spinal arthroscopy. Kambin P. **Neurosurg Clin N Am** 1996 Jan;7(1):65–76 (49 ref.)

Rotator cuff disease. An arthroscopic view. Warner JJ. **Orthop Clin North Am** 1997 Apr;28(2):251–65

Efficacy of prophylactic antibiotics in arthroscopic surgery. Wieck JA, et al. **Orthopedics** 1997 Feb;20(2):133–4

Peripheral analgesic effect of intra-articular clonidine. Gentili M, et al. **Pain** 1996 Mar;64(3):593–6

Meniscal tears of the knee: accuracy of detection with fast spin-echo MR imaging and arthroscopic correlation in 293 patients. Cheung LP, et al. **Radiology** 1997 May; 203(2):508–12

Pain relief after knee arthroscopy: intra-articular morphine, intra-articular bupivacaine, or subcutaneous morphine? Cepeda MS, et al. **Reg Anesth** 1997 May–Jun;22(3):233–8

Arthroscopy-assisted synovectomy in the treatment of chronic synovitis of the knee. Ayral X, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):215-26

Ankle arthroscopy under local and general anaesthesia for diagnostic evaluation and treatment. Rolf C, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):255-8

Working knowledge. Arthroscopoic surgery. Pierce MA. **Sci Am** 1997 Feb;276(2):108

Rehabilitation programmes following arthroscopic meniscectomy in athletes. Wheatley WB, et al. **Sports Med** 1996 Jun;21(6):447-56 (22 ref.)

[Arthroscopic aspects and chronologic outcome of lesions of the labro-ligament complex in post-traumatic antero-inferior instability of the shoulder. A prospective study of 91 cases] Gleyze P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(4):288-98 (46 ref.) (Eng. Abstr.) **(Fre)**

[Comparison between magnetic resonance imaging and arthroscopy for the diagnosis of knee meniscal lesions] Imhoff A, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):229-36 (Eng. Abstr.) **(Fre)**

[Arthroscopic treatment of chronic anterior instability of the shoulder by staple capsulorrhaphy. Apropos of a series of 55 patients with a minimum of 18 months follow-up] Nérisson D, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(4):275-87 (Eng. Abstr.) **(Fre)**

[The contribution of arthroscopic treatment in temporomandibular disk-condyle displacements] Bellot V, et al. **Rev Stomatol Chir Maxillofac** 1996 Oct;97(5):308-12 (Eng. Abstr.) **(Fre)**

[Spinal anesthesia for ambulatory arthroscopy. The view of the patients: results and patient's viewpoint] Fritz KW, et al. **Anaesthesist** 1997 May;46(5):430-3 (Eng. Abstr.) **(Ger)**

[Remarks on the work of G. Hege-Scheuing et al. Analgesia with intra-articular morphine after knee joint arthroscopy? Anaesthesist (1995) 44:351-358 (comment)] Stein C, et al. **Anaesthesist** 1996 Mar;45(3):287-8. Comment on: Anaesthesist 1995 May;44(5):351-8. **(Ger)**

[Remifentanil with propofol or isoflurane. A comparison of the recovery times after arthroscopic surgery] Wilhelm W, et al. **Anaesthesist** 1997 Apr;46(4):335-8 (Eng. Abstr.) **(Ger)**

[Fulminant air embolism in arthroscopy of the shoulder joint using CO2] Bauereis C, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Dec; 31(10):654-7 (Eng. Abstr.) **(Ger)**

[Use of lasers in orthopedics. 3rd world congress of the International Musculoskeletal Laser Society (IMLAS), 7-10 November 1966, Kassel] Siebert W. **Orthopade** 1997 Apr;26(4):394-8 **(Ger)**

[MRI in hemarthrosis of the knee joint: assessment of cause of bleeding, injury pattern and therapy] Bachmann G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):270-5 (Eng. Abstr.) **(Ger)**

[Arthroscopic findings in the unstable upper ankle joint] Schäfer D, et al. **Sportverletz Sportschaden** 1996 Sep; 10(3):63-6 (Eng. Abstr.) **(Ger)**

[Intermediate term results after arthroscopic meniscus suture] Villiger A, et al. **Swiss Surg** 1997;3(4):149-53 (Eng. Abstr.) **(Ger)**

[Arthroscopic capsule-labrum refixation in anterior shoulder dislocation. Primary or secondary management?] Hehl G, et al. **Unfallchirurg** 1996 Nov;99(11):831-5 (Eng. Abstr.) **(Ger)**

[Arthroscopic therapy of tendinitis calcarea--acromioplasty or removal of calcium?] Jerosch J, et al. **Unfallchirurg** 1996 Dec;99(12):946-52 (Eng. Abstr.) **(Ger)**

[Value of arthro-CT in decision for arthroscopic or open stabilization in ventral shoulder instability] Jürgensen I, et al. **Unfallchirurg** 1996 Dec;99(12):940-5 (Eng. Abstr.) **(Ger)**

[Prospective comparison of ARTOSCAN-MRI and arthroscopy in knee injuries] Riel KA, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep-Oct;134(5):430-4 (Eng. Abstr.) **(Ger)**

[Arthroscopic trans-glenoid stabilization of post-traumatic anterior shoulder instability] Steinbeck J, et al. **Z Orthop Ihre Grenzgeb** 1997 May-Jun;135(3):228-32 (Eng. Abstr.) **(Ger)**

[Subarachnoid anesthesia with minimal doses of lidocaine in ambulatory arthroscopic surgery of the knee] Raich-Brufau M, et al. **Rev Esp Anestesiol Reanim** 1997 May;44(5):204-6 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Intra-articular tenoxicam relieves post-arthroscopy pain. Elhakim M, et al. **Acta Anaesthesiol Scand** 1996 Nov; 40(10):1223-6

Femoral nerve palsy after arthroscopic surgery with an infusion pump irrigation system [letter; comment] Zarins B. **Am J Orthop** 1996 Aug;25(8):521. Comment on: Am J Orthop 1996 Feb;25(2):145-8.

Compartment syndrome after arthroscopic surgery of knee. A report of two cases managed nonoperatively [see comments] Kaper BP, et al. **Am J Sports Med** 1997 Jan-Feb;25(1):123-5. Comment in: Am J Sports Med 1997 Jul-Aug;25(4):589-90.

Compartment syndrome after arthroscopic surgery of the knee. A report of two cases managed nonoperatively [letter; comment] Siegel MG. **Am J Sports Med** 1997 Jul-Aug; 25(4):589-90. Comment on: Am J Sports Med 1997 Jan-Feb;25(1):123-5.

Failure of arthroscopic meniscal repair following septic arthritis. Myerthall S, et al. **Arthroscopy** 1996 Dec; 12(6):746-8

Complications following arthroscopic ankle arthrodesis. Crosby LA, et al. **Foot Ankle Int** 1996 Jun;17(6):340-2

Pseudoaneurysm formation after ankle arthroscopy. O'Farrell D, et al. **Foot Ankle Int** 1997 Sep;18(9):578-9

Venous pseudoaneurysm as a complication of shoulder arthroscopy. Cameron SE. **J Shoulder Elbow Surg** 1996 Sep-Oct;5(5):404-6

Arteriovenous fistula after temporomandibular joint arthroscopy treated with external carotid embolization. Scholl PD, et al. **Otolaryngol Head Neck Surg** 1997 Jul; 117(1):124-6

ECONOMICS

Potential cost savings of MR imaging obtained before arthroscopy of the knee: evaluation of 50 consecutive patients. Bui-Mansfield LT, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):913-8

The price to pay for education. Tippett JW. **Arthroscopy** 1997 Aug;13(4):533-6

Knee arthroscopy: a cost analysis of general and local anesthesia. Trieshmann HW Jr. **Arthroscopy** 1996 Feb; 12(1):60-3

Economic considerations for the diagnosis and therapy of meniscal lesions: can magnetic resonance imaging help reduce the expense? Weinstabl R, et al. **World J Surg** 1997 May;21(4):363-8

INSTRUMENTATION

A new approach to dome high tibial osteotomy. Korn MW. **Am J Knee Surg** 1996 Winter;9(1):12-21

Goble technique of meniscus transplantation. Wilcox TR, et al. **Am J Knee Surg** 1996 Winter;9(1):37-42

Use of a 14-gauge needle as a wire guide. Waldron VD. **Am J Orthop** 1997 Jan;26(1):51

Comparison of an optical catheter office arthroscope with a standard rigid rod-lens arthroscope in the evaluation of the knee. Meister K, et al. **Am J Sports Med** 1996 Nov-Dec; 24(6):819-23

Aquaflo pump vs FMS 4 pump for shoulder arthroscopic surgery. Ampat G, et al. **Ann R Coll Surg Engl** 1997 Sep; 79(5):341-4

Locked posterior dislocation of the shoulder: treatment using arthroscopic removal of a loose body. Alamo GG, et al. **Arthroscopy** 1996 Feb;12(1):109-11

Effects of knee flexion angle at graft fixation on the outcome of anterior cruciate ligament reconstruction. Asahina S, et al. **Arthroscopy** 1996 Feb;12(1):70-5

Suture anchor strength revisited. Barber FA, et al. **Arthroscopy** 1996 Feb;12(1):32-38

Arthroscopic assisted rotator cuff repair: results using a mini-open deltoid splitting approach. Blevins FT, et al. **Arthroscopy** 1996 Feb;12(1):50-9

Comparison of "inside-out" and "outside-in" interference screw fixation for anterior cruciate ligament surgery in a bovine knee. Bryan JM, et al. **Arthroscopy** 1996 Feb; 12(1):76-81

Arthroscopic subscapularis tenolysis: a technique for treating refractory glenohumeral stiffness following open reduction and internal fixation of a displaced three-part proximal humerus fracture. Burkhart SS. **Arthroscopy** 1996 Feb; 12(1):87-91

Margin convergence: a method of reducing strain in massive rotator cuff tears. Burkhart SS, et al. **Arthroscopy** 1996 Jun; 12(3):335-8

Regional anesthesia in knee arthroscopy: a new technique involving femoral and sciatic nerve blocks in knee arthroscopy. Cappellino A, et al. **Arthroscopy** 1996 Feb; 12(1):120-3

Avulsion of the femoral attachment of the anterior cruciate ligament in a 3-year-old boy. Corso SJ, et al. **Arthroscopy** 1996 Feb;12(1):95-8

Translaminar lumbar epidural endoscopy: anatomy, technique, and indications. De Antoni DJ, et al. **Arthroscopy** 1996 Jun;12(3):330-4

New Tuohy needle technique for triangular fibrocartilage complex repair: preliminary studies. de Araujo W, et al. **Arthroscopy** 1996 Dec;12(6):699-703

A secure arthroscopic knot. Delimar D. **Arthroscopy** 1996 Jun;12(3):345-7

Spontaneous pneumothorax after shoulder arthroscopy: a report of four cases. Dietzel DP, et al. **Arthroscopy** 1996 Feb;12(1):99-102

Noninvasive ankle distraction: relationship between force, magnitude of distraction, and nerve conduction abnormalities. Dowdy PA, et al. **Arthroscopy** 1996 Feb; 12(1):64-9

Interference screw divergence in endoscopic anterior cruciate ligament reconstruction. Dworsky BD, et al. **Arthroscopy** 1996 Feb;12(1):45-9

Arthroscopically assisted combined anterior and posterior cruciate ligament reconstruction. Fanelli GC, et al. **Arthroscopy** 1996 Feb;12(1):5-14

Endoscopy of the deep infrapatellar bursa. Klein W. **Arthroscopy** 1996 Feb;12(1):127-31

The acetabular labral tear: an arthroscopic classification. Lage LA, et al. **Arthroscopy** 1996 Jun;12(3):269-72

Use of an endoscopic aimer for femoral tunnel placement in anterior cruciate ligament reconstruction. McGuire DA, et al. **Arthroscopy** 1996 Feb;12(1):26-31

Arthroscopic treatment of bilateral Freiberg's infraction. Maresca G, et al. **Arthroscopy** 1996 Feb;12(1):103-8

Arthroscopic partial medial meniscectomy in patients over 40 years old: a 5- to 11-year follow-up study. Matsusue Y, et al. **Arthroscopy** 1996 Feb;12(1):39-44

The "N + 7 rule" for tibial tunnel placement in endoscopic anterior cruciate ligament reconstruction [see comments] Miller MD, et al. **Arthroscopy** 1996 Feb;12(1):124-6. Comment in: Arthroscopy 1996 Jun;12(3):392-4.

Percutaneous tensioning of the glenohumeral ligaments during arthroscopic bankart repair. Post WR. **Arthroscopy** 1996 Feb;12(1):116-9

Effects of holmium: YAG laser energy on cartilage metabolism, healing, and biochemical properties of lesional and perilesional tissue in a weight-bearing model. Pullin JG, et al. **Arthroscopy** 1996 Feb;12(1):15-25

Arthroscopic intra-articular biopsy using a suction trap device. Redmond BJ, et al. **Arthroscopy** 1996 Jun; 12(3):343-4

The antero-inferior (transmuscular) approach for arthroscopic repair of the Bankart lesion: an anatomic and clinical study. Resch H, et al. **Arthroscopy** 1996 Jun; 12(3):309-19; discussion 320-2

Arthroscopic repair of radial-sided triangular fibrocartilage complex tears. Sagerman SD, et al. **Arthroscopy** 1996 Jun; 12(3):339-42

Arthroscopically assisted treatment of acute septic knees in infants using the Micro-Joint Arthroscope. Sanchez AA, et al. **Arthroscopy** 1997 Jun;13(3):350-4

Angioplasty balloon catheters used for distraction of the ankle joint. Sartoretti C, et al. **Arthroscopy** 1996 Feb; 12(1):82-6

Development and clinical application of a flexible arthroscopy system. Takahashi T, et al. **Arthroscopy** 1997 Feb;13(1):42-50

Delayed articular cartilage slough: two cases resulting from holmium:YAG laser damage to normal articular cartilage and a review of the literature. Thal R, et al. **Arthroscopy** 1996 Feb;12(1):92-4 (8 ref.)

A simple and secure anchoring system for Caspari's transglenoid multiple suture technique using a biodegradable poly-l-lactic acid button. Yoneda M, et al. **Arthroscopy** 1996 Jun;12(3):293-9

Trephination and suturing of avascular meniscal tears: a clinical study of the trephination procedure. Zhang Z, et al. **Arthroscopy** 1996 Dec;12(6):726-31

The holmium YAG laser in office based arthroscopy of the knee: comparison with standard interventional instruments in patients with arthritis. Wei N, et al. **J Rheumatol** 1997 Sep;24(9):1806-8

Fire during arthroscopy--an unusual complication. Sadat-Ali M, et al. **Knee Surg Sports Traumatol Arthrosc** 1995; 3(3):178-9

Arthroscopic synovectomy. When, which diseases and which joints. Paus AC. **Z Rheumatol** 1996 Nov-Dec;55(6):394-400 (63 ref.)

[Endoscopic carpal tunnel ligament release--a risky current technique or a modern patient-oriented therapy] Lauterbach HH, et al. **Chirurg** 1997 May;68(5):525-9; discussion 530 (Eng. Abstr.) **(Ger)**

[Voice control of endoscopic instruments by the operator--development and perspectives] Lobenhoffer P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:631-3 (Eng. Abstr.) **(Ger)**

[Therapy of extension deficits of the knee joint by arthroscopic arthrolysis and dorsal capsulotomy (published erratum appears in Unfallchirurg 1996 Sep;99(9):707)] Lobenhoffer P, et al. **Unfallchirurg** 1996 Jul;99(7):487-91 (Eng. Abstr.) **(Ger)**

[Minimally invasive osteosynthesis of fractures of the tibial head] Lobenhoffer P, et al. **Unfallchirurg** 1996 Aug; 99(8):569-75 (Eng. Abstr.) **(Ger)**

[Scapholunar ligament injuries in acute wrist trauma. Arthroscopic diagnosis and minimally invasive surgery] Peicha G, et al. **Unfallchirurg** 1997 Jun;100(6):430-7 (Eng. Abstr.) **(Ger)**

[Arthroscopic replacement of the anterior cruciate ligament with a double semitendinosus tendon] Sperner G, et al. **Unfallchirurg** 1996 Nov;99(11):869-74 (Eng. Abstr.) **(Ger)**

[Arthroscopic synovectomy and radiosynoviorthesis] Kerschbaumer F, et al. **Z Rheumatol** 1996 Nov-Dec; 55(6):388-93 (Eng. Abstr.) **(Ger)**

[Arthroscopes] Hubert P, et al. **Harefuah** 1997 Feb 16; 132(4):305-7 **(Heb)**

METHODS

MRI preferable to diagnostic arthroscopy in knee joint injuries. A double-blind comparison of 47 patients. Rappeport ED, et al. **Acta Orthop Scand** 1997 Jun; 68(3):277-81

Arthroscopic excision of intra-articular ossifications. A case report and review of the literature. Rooney RC, et al. **Am J Orthop** 1996 Jun;25(6):437-40 (7 ref.)

The anterior approach to the shoulder from the lateral position. Steingard MA. **Am J Orthop** 1996 Nov; 25(11):801-2

Arthroscopic diagnosis of posttraumatic disorders of the

wrist. Möllenhoff G, et al. **Arch Orthop Trauma Surg** 1996; 115(6):351–6

Does arthroscopic abrasion arthroplasty promote cartilage regeneration in osteoarthritic knees with eburnation? A prospective study of high tibial osteotomy with abrasion arthroplasty versus high tibial osteotomy alone. Akizuki S, et al. **Arthroscopy** 1997 Feb;13(1):9–17

Arthroscopic Bankart repair in a high demand patient population. Bacilla P, et al. **Arthroscopy** 1997 Feb; 13(1):51–60

Arthroscopic anterior cruciate ligament reconstruction using a patellar tendon graft in press-fit technique: surgical technique and follow-up. Boszotta H. **Arthroscopy** 1997 Jun;13(3):332–9

Clinical and anatomic considerations in the use of a new anterior inferior subaxillary nerve arthroscopy portal. Burkhart SS, et al. **Arthroscopy** 1996 Oct;12(5):634–7

Traction versus distension for distraction of the joint during hip arthroscopy. Byrd JW, et al. **Arthroscopy** 1997 Jun; 13(3):346–9

Noninvasive distraction for ankle arthroscopy. Cameron SE. **Arthroscopy** 1997 Jun;13(3):366–9

Arthroscopic one-piece excision technique for the treatment of symptomatic lateral discoid meniscus [letter; comment] Clark BW. **Arthroscopy** 1997 Jun;13(3):413–4. Comment on: Arthroscopy 1996 Dec;12(6):752–5.

Arthroscopic repair of peripheral avulsions of the triangular fibrocartilage complex of the wrist: a multicenter study. Corso SJ, et al. **Arthroscopy** 1997 Feb;13(1):78–84

Pigmented villonodular synovitis and synovial chondromatosis arthroscopically diagnosed and treated in the same elbow. Ekman EF, et al. **Arthroscopy** 1997 Feb; 13(1):114–6

Radial avulsion of the triangular fibrocartilage complex in acute wrist trauma: a new technique for arthroscopic repair. Fellinger M, et al. **Arthroscopy** 1997 Jun;13(3):370–4

Arthroscopic decompression of a ganglion cyst causing suprascapular nerve compression. Iannotti JP, et al. **Arthroscopy** 1996 Dec;12(6):739–45

Arthroscopic one-piece excision technique for the treatment of symptomatic lateral discoid meniscus [see comments] Kim SJ, et al. **Arthroscopy** 1996 Dec;12(6):752–5. Comment in: Arthroscopy 1997 Jun;13(3):413–4.

Knee arthroscopy in Chinese children and adolescents: an eight-year prospective study. Maffulli N, et al. **Arthroscopy** 1997 Feb;13(1):18–23

Osteochondritis dissecans of the patella: arthroscopic fixation with bioabsorbable pins. Matava MJ, et al. **Arthroscopy** 1997 Feb;13(1):124–8

A comparison of abrasion burr arthroplasty and subchondral drilling in the treatment of full-thickness cartilage lesions in the rabbit. Menche DS, et al. **Arthroscopy** 1996 Jun; 12(3):280–6

Arthroscopically assisted reduction and fixation of an adult Tillaux fracture of the ankle. Miller MD. **Arthroscopy** 1997 Feb;13(1):117–9

Arthroscopic-assisted allograft anterior cruciate ligament reconstruction in patients with symptomatic arthrosis. Noyes FR, et al. **Arthroscopy** 1997 Feb;13(1):24–32

The adduction distraction maneuver. O'Brien SJ, et al. **Arthroscopy** 1997 Aug;13(4):530–2

The diabetic frozen shoulder: arthroscopic release. Ogilvie-Harris DJ, et al. **Arthroscopy** 1997 Feb;13(1):1–8

Core decompression and arthroscopic bone grafting for avascular necrosis of the knee. Perez Carro L, et al. **Arthroscopy** 1996 Jun;12(3):323–6

Arthroscopic reduction and internal fixation of a displaced intra-articular lateral femoral condyle fracture of the knee: case report [letter; comment] Stern RE. **Arthroscopy** 1996 Dec;12(6):760–1. Comment on: Arthroscopy 1996 Apr;12(2):224–7.

Development and clinical application of a flexible arthroscopy system. Takahashi T, et al. **Arthroscopy** 1997 Feb;13(1):42–50

Rotator interval capsule closure: an arthroscopic technique. Treacy SH, et al. **Arthroscopy** 1997 Feb;13(1):103–6

Arthroscopic meniscal suture with the "double-loop technique". Wageck JM, et al. **Arthroscopy** 1997 Feb; 13(1):120–3

Diagnostic and quantitative arthroscopy: quantitative arthroscopy. Ayral X. **Baillieres Clin Rheumatol** 1996 Aug; 10(3):477–94 (28 ref.)

Diagnostic arthroscopy. Ike RW. **Baillieres Clin Rheumatol** 1996 Aug;10(3):495–517

Systemic effects of open and arthroscopic articulosynovectomy compared to radiosynoviorthesis in patients with rheumatoid arthritis [letter] Göbel D, et al. **Br J Rheumatol** 1997 Mar;36(3):402–3

Out-patient arthroscopy. Pellacci F, et al. **Chir Organi Mov** 1996 Apr-Jun;81(2):165–72 (22 ref.) **(Eng, Ita)**

Results of arthroscopic versus open Bankart suture repair. Geiger DF, et al. **Clin Orthop** 1997 Apr;(337):111–7

Arthroscopic discectomy of the lumbar spine. Kambin P, et al. **Clin Orthop** 1997 Apr;(337):49–57 (54 ref.)

Lumbar percutaneous endoscopic interbody fusion. Leu HF, et al. **Clin Orthop** 1997 Apr;(337):58–63

Arthroscopic release of the posterior cruciate ligament for stiff total knee arthroplasty. Williams RJ 3rd, et al. **Clin Orthop** 1996 Oct;(331):185–91

Arthroscopy in hand surgery. Jones KJ. **Clin Plast Surg** 1996 Jul;23(3):463–76 (30 ref.)

A simple way to establish the posterolateral portal in ankle arthroscopy. Katchis SD, et al. **Foot Ankle Int** 1997 Mar; 18(3):178–9

Technique tips. Skeletal traction for ankle arthroscopy. Wright G. **Foot Ankle Int** 1996 Feb;17(2):119

Meniscal repair: arthroscopic repair techniques. Cannon WD Jr, et al. **Instr Course Lect** 1994;43:77–96 (19 ref.)

Minimally invasive arthroscopic spinal surgery. Kambin P, et al. **Instr Course Lect** 1997;46:143–61 (79 ref.)

Minimally invasive approaches to the spine. Regan JJ, et al. **Instr Course Lect** 1997;46:127–41 (44 ref.)

Arthroscopic debridement versus arthroplasty in the osteoarthritic knee. Jackson RW, et al. **J Arthroplasty** 1997 Jun;12(4):465–9; discussion 469–70 (13 ref.)

Photography of operative techniques and pathology during arthroscopy using a second arthroscope. Bryson D. **J Audiov Media Med** 1997 Mar;20(1):19–21

An arthroscopic technique for anterior stabilization of the shoulder with a bioabsorbable tack. Speer KP, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1801–7

Arthroscopic release for chronic, refractory adhesive capsulitis of the shoulder. Warner JJ, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1808–16

An anatomical study of a new portal for ankle arthroscopy. Buckingham RA, et al. **J Bone Joint Surg Br** 1997 Jul; 79(4):650–2

Arthroscopic reconstruction of the anterior cruciate ligament using bone-patellar tendon-bone grafts with and without augmentation. A prospective randomised study. Grøntvedt T, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):817–22

Articular debridement versus washout for degeneration of the medial femoral condyle [letter; comment] Livesley PJ. **J Bone Joint Surg Br** 1996 Sep;78(5):854. Comment on: J Bone Joint Surg Br 1996 Mar;78(2):217–9.

Arthroscopic reconstruction of the anterior cruciate ligament using bone-patellar tendon-bone grafts with and without augmentation. A prospective randomised study. Grøntvedt T, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):817–22

Articular debridement versus washout for degeneration of the medial femoral condyle [letter; comment] Noble J. **J Bone Joint Surg Br** 1996 Sep;78(5):854. Comment on: J Bone Joint Surg Br 1996 Mar;78(2):217–9.

Clinical results of treatment of triangular fibrocartilage complex tears by arthroscopic debridement. Minami A, et al. **J Hand Surg [Am]** 1996 May;21(3):406–11

Arthroscopic management of partial scapholunate and lunotriquetral injuries of the wrist. Ruch DS, et al. **J Hand Surg [Am]** 1996 May;21(3):412–7

A balloon pumping technique for treatment of internal derangement of the temporomandibular joint. Sasaki K. **J Oral Maxillofac Surg** 1997 Sep;55(9):947–52

Chronic ankle pain in soldiers: the role of ankle arthroscopy and soft tissue excision. Clasper JC, et al. **J R Army Med Corps** 1996 Oct;142(3):107–9

Arthroscopy in the elderly. Hambidge JE, et al. **J R Army Med Corps** 1994 Feb;140(1):29–31

Arthroscopic repair of glenolabral injuries with an absorbable fixation device. Segmüller HE, et al. **J Shoulder Elbow Surg** 1997 Jul-Aug;6(4):383–92

Arthroscopic stabilization of acute initial anterior shoulder dislocation: the West Point experience. DeBerardino TM, et al. **J South Orthop Assoc** 1996 Winter;5(4):263–71

Hip arthroscopy. Hunter DM, et al. **J South Orthop Assoc** 1996 Winter;5(4):243–50

Arthroscopic acromioplasty. Current status. Altchek DW, et al. **Orthop Clin North Am** 1997 Apr;28(2):157–68 (40 ref.)

The rotator cuff. Full-thickness tears. Mini-open repair. Pollock RG, et al. **Orthop Clin North Am** 1997 Apr; 28(2):169–77 (28 ref.)

Technique of arthroscopic rotator cuff repair using implantable 4-mm Revo suture anchors, suture Shuttle Relays, and no. 2 nonabsorbable mattress sutures. Snyder SJ. **Orthop Clin North Am** 1997 Apr;28(2):267–75

A prospective, clinical study evaluating arthroscopic ACL reconstruction using the semitendinosus and iliotibial band: 2- to 5-year follow up. Billotti JD, et al. **Orthopedics** 1997 Feb;20(2):125–31

The scapholunate interosseous ligament in MR arthrography of the wrist: correlation with non-enhanced MRI and wrist arthroscopy. Scheck RJ, et al. **Skeletal Radiol** 1997 May; 26(5):263–71

[Arthroscopic reconstruction using the Leeds-Keio ligament following anterior cruciate ligament lesions in 200 patients (see comments)] Meins GA, et al. **Ned Tijdschr Geneeskd** 1996 Nov 9;140(45):2231–4 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Apr 26;141(17):845–6. **(Dut)**

[Arthroscopic reconstruction using the Leeds-Keio ligament in anterior cruciate ligament lesions (comment)] van Kampen A. **Ned Tijdschr Geneeskd** 1996 Nov 9; 140(45):2225–6. Comment on: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2231–4. **(Dut)**

[Gleno-humeral arthroscopic arthrolysis for shoulder stiffness. Apropos of 26 cases. Société Française d'Arthroscopie] Beaufils P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):608–14 (Eng. Abstr.) **(Fre)**

[Arthroscopic image of wrist joint instability] Preissler P, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):233–8 (Eng. Abstr.) **(Ger)**

[The use of lasers in surgical orthopedics. A current review] Schmolke S, et al. **Orthopade** 1997 Mar;26(3):267–72 (25 ref.) (Eng. Abstr.) **(Ger)**

[Carpal ligament lesions associated with fresh distal radius fractures: arthroscopic study of 54 cases] Fischer M, et al. **Swiss Surg** 1996;2(6):269–72; discussion 272–3 (Eng. Abstr.) **(Ger)**

[Needle arthroscopy in rheumatology--its role in diagnosis and therapy] Brühlmann P. **Ther Umsch** 1996 Oct; 53(10):713–5 (Eng. Abstr.) **(Ger)**

[Arthroscopy: possibilities and limitations in the diagnosis and therapy of meniscus lesions] Hackenbruch W. **Ther Umsch** 1996 Oct;53(10):767–74 (36 ref.) (Eng. Abstr.) **(Ger)**

[Arthroscopic therapy of the unstable shoulder joint--acceptance and critical considerations] Jerosch J. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb;135(1):79–83 (40 ref.) (Eng. Abstr.) **(Ger)**

[Arthroscopic repair of the glenoid labrum using the 3-point knot technique. Early results with consideration to different postoperative immobilization time periods] Merk H, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov-Dec;134(6):546–52 (Eng. Abstr.) **(Ger)**

[Arthroscopic reconstruction of the capsule-ligament using Landsiedl's technique for treating recurrent anterior shoulder dislocation] Pawlas R, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):527–30 (Eng. Abstr.) **(Pol)**

[Arthroscopy in trauma related anterior dislocation of the shoulder] Pawlas R, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):361–4 (Eng. Abstr.) **(Pol)**

STANDARDS

[Knee arthroscopy--the gold standard with a smear] Jerosch J. **Z Orthop Ihre Grenzgeb** 1996 Jul-Aug;134(4):Oa7–10 **(Ger)**

TRENDS

Arthroscopic surgery--three decades. Jackson DW. **Arthroscopy** 1997 Aug;13(4):537–40

Trends in temporomandibular joint surgery. Gerard MW, et al. **Med Prog Technol** 1996–97;21(4):171–5

VETERINARY

Characterization of anatomic communications among the antebrachiocarpal, middle carpal, and carpometacarpal joints in cattle, using intra-articular latex, positive-contrast arthrography, and fluoroscopy. Desrochers A, et al. **Am J Vet Res** 1997 Jan;58(1):7–10

A retrospective evaluation of the surgical management of equine carpal injury. Raidal SL, et al. **Aust Vet J** 1996 Sep;74(3):198–202

Fracture of the intercondylar eminence of the tibia treated by arthroscopic internal fixation. Walmsley JP. **Equine Vet J** 1997 Mar;29(2):148–50

Use of tenoscopy for management of septic tenosynovitis caused by a penetrating porcupine quill in the synovial sheath surrounding the digital flexor tendons of a horse. Magee AA, et al. **J Am Vet Med Assoc** 1997 Jun 15; 210(12):1768–70

Frank Beattie Travel Scholarship. Examination of arthroscopy as a clinical tool in small animal practice. Abercromby R. **J Small Anim Pract** 1997 Apr;38(4):174–8

Advances in equine arthroscopy. Trotter GW, et al. **Vet Clin North Am Equine Pract** 1996 Aug;12(2):261–81 (34 ref.)

Arthroscopic findings in 100 dogs with elbow lameness. Van Ryssen B, et al. **Vet Rec** 1997 Apr 5;140(14):360–2

Repair and function of synovium after arthroscopic synovectomy of the dorsal compartment of the equine antebrachiocarpal joint. Theoret CL, et al. **Vet Surg** 1996 Mar-Apr;25(2):142–53

ARTHUS PHENOMENON see **ARTHUS REACTION**

ARTHUS REACTION

Comparison of the reversed passive Arthus and local Shwartzman reactions of rabbit skin: effects of the long-acting PAF antagonist UK-74,505. Norman KE, et al. **Br J Pharmacol** 1997 Apr;120(7):1286–93

A dominant role for mast cell Fc receptors in the Arthus reaction. Sylvestre DL, et al. **Immunity** 1996 Oct; 5(4):387–90

CHEMICALLY INDUCED

Differences in immune responses to a low-molecular compound in three guinea-pig strains. Aida T, et al. **J Toxicol Sci** 1997 May;22(2):135–40

DRUG THERAPY

Platelet-activating factor is an effector of rapid reactions and an inductor of late responses in immune-mediated injury. Sanchez Crespo M, et al. **Adv Exp Med Biol** 1996;416:195–9

ETIOLOGY

Development of antibodies to fetal calf serum with arthus-like reactions in human immunodeficiency virus-infected patients given syngeneic lymphocyte infusions. Selvaggi TA, et al. **Blood** 1997 Feb 1;89(3):776–9

Role of P-selectin in the early stage of the Arthus reaction. Ohnishi M, et al. **Immunopharmacology** 1996 Sep; 34(2-3):161–70

IMMUNOLOGY

Development of antibodies to fetal calf serum with arthus-like reactions in human immunodeficiency virus-infected patients given syngeneic lymphocyte infusions. Selvaggi TA, et al. **Blood** 1997 Feb 1;89(3):776-9

Effect of soluble P55 tumour-necrosis factor binding fusion protein on the local Shwartzman and Arthus reactions. Norman KE, et al. **Br J Pharmacol** 1996 Feb;117(3):471-478

Impaired IgG-dependent anaphylaxis and Arthus reaction in Fc gamma RIII (CD16) deficient mice. Hazenbos WL, et al. **Immunity** 1996 Aug;5(2):181-8

Impaired inflammatory responses in the reverse arthus reaction through genetic deletion of the C5a receptor. Höpken UE, et al. **J Exp Med** 1997 Aug 29;186(5):749-56

METABOLISM

PAF modulates eicosanoids and TNF release in immune-complex arthritis in rats. Rocha FA, et al. **J Lipid Mediat Cell Signal** 1997 May;16(1):1-10

PATHOLOGY

Histochemical investigations of the skeletal muscle fibres during the reversed passive Arthus reaction in guinea pigs. Gendek-Kubiak H. **Folia Histochem Cytobiol** 1997; 35(2):125-6

Light and electron microscopic examination of skeletal muscles in the reversed passive Arthus reaction. Gendek-Kubiak H, et al. **Pol J Pathol** 1997;48(2):121-8

ARTICAINE see **CARTICAINE**

ARTICULAR DISK, TEMPOROMANDIBULAR see **TEMPOROMANDIBULAR JOINT DISK**

ARTICULATION DISORDERS

COMPLICATIONS

Articulation in Down's syndrome adolescents and adults. Van Borsel J. **Eur J Disord Commun** 1996;31(4):415-44

DIAGNOSIS

Hearing, language, speech, vestibular, and dentofacial disorders in fetal alcohol syndrome. Church MW, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):227-37

A proposal for standardization of speech and hearing evaluations to assess velopharyngeal function. Hirschberg J, et al. **Folia Phoniatr Logop** 1997;49(3-4):158-67

Diagnostic value of articulation tests with individuals having clefts. Van Demark DR. **Folia Phoniatr Logop** 1997; 49(3-4):147-57

Preliminary study of articulatory reorganisation of fricative consonants following osteotomy. Wakumoto M, et al. **Folia Phoniatr Logop** 1996;48(6):275-89

Slowly progressive anarthria with late anterior opercular syndrome: a variant form of frontal cortical atrophy syndromes. Broussolle E, et al. **J Neurol Sci** 1996 Dec; 144(1-2):44-58

Construct validity of the motor profile with preschool children with speech-language delays: component of the early screening profiles. Reeves L. **Percept Mot Skills** 1997 Aug;85(1):335-43

[Articulatory capacity and intelligibility of speech of patients with carcinomas of the mouth cavity. A comparison of pre- and postoperative results of various reconstruction techniques] Schönweiler R, et al. **HNO** 1996 Nov; 44(11):634-9 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Early speech development, articulation and reading ability up to the age of 9. Luotonen M. **Folia Phoniatr Logop** 1995; 47(6):310-7

ETIOLOGY

Effects of retainers on the articulation of speech. Haydar B, et al. **Am J Orthod Dentofacial Orthop** 1996 Nov; 110(5):535-40

Aerodynamic and acoustic characteristics of a speaker with turbulent nasal emission: a case report. Zajac DJ, et al. **Cleft Palate Craniofac J** 1996 Sep;33(5):440-4

Skull base metastases causing acute bilateral hypoglossal nerve palsy. Rotta FT, et al. **J Neurol Sci** 1997 May 1; 148(1):127-9

Analysis of the articulation after glossectomy. Wakumoto M, et al. **J Oral Rehabil** 1996 Nov;23(11):764-70

Speech defect associated with Class III jaw relationship [letter] Taher A. **Plast Reconstr Surg** 1997 Apr;99(4):1200

Speech in diagnosis of craniomandibular disorders [letter] Taher AA. **Plast Reconstr Surg** 1997 Apr;99(4):1201

PSYCHOLOGY

[A rare case of psychogenic dysarthrophonia or a complex dyskinesia of the pharynx?] Kiese-Himmel C, et al. **Fortschr Neurol Psychiatr** 1997 Jun;65(6):256-60 (Eng. Abstr.) **(Ger)**

REHABILITATION

Functional results with the team care of cleft lip and palate patients in Bergen, Norway. The Bergen Cleft Palate-Craniofacial Team, Norway. Tindlund RS, et al. **Folia Phoniatr Logop** 1997;49(3-4):168-76

THERAPY

Stimulability considerations in the phonological treatment of a child with a persistent disorder of speech-sound production. Powell TW. **J Commun Disord** 1996 Jul-Aug; 29(4):315-33

ARTICULATORS see **DENTAL ARTICULATORS**

ARTIFACTS

Ultrafast Papanicolaou stain: one year's experience in a fine needle aspiration service [letter] Lemos LB, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1630-1

Aneurysm clips made of titanium: magnetic characteristics and artifacts in MR. Wichmann W, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):939-44

Re: An unusual artifact [letter; comment] Feinstein RS, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):278. Comment on: AJR Am J Roentgenol 1995 Aug;165(2):485-6.

MR imaging truncation artifacts can create a false laminar appearance in cartilage. Frank LR, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):547-54

The rope ladder: an uncommon artifact and potential pitfall in MR arthrography of the shoulder. Gückel C, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):947-50

Rotational phantom for evaluating MR biopsy needle artifacts [letter] Hor CJ, et al. **AJR Am J Roentgenol** 1997 May;168(5):1383-4

Gadolinium-enhanced MR imaging of the spleen: artifacts and potential pitfalls. Ito K, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1147-51

Truncation artifact in dynamic MR imaging for small adrenal mass [letter] Kanematsu M, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1070

Motion suppression in MR imaging of the liver: comparison of respiratory-triggered and nontriggered fast spin-echo sequences. Low RN, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):225-31

Ghosting of pulmonary nodules with respiratory motion: comparison of helical and conventional CT using an in vitro pediatric model. Luker GD, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1189-93

CT angiography of carotid bifurcation: artifacts and pitfalls in shaded-surface display. Takahashi M, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):813-7

Evaluation of agonal artifacts in the myocardium using a combination of histological stains and immunohistochemistry. Edston E. **Am J Forensic Med Pathol** 1997 Jun;18(2):163-7

Artifact from an electrosurgical ground pad. Revercomb CH, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):293-4

Inadvertent concentrating of EDTA by ion exchange chromatography: avoiding artifacts that can interfere with protein purification. Sharpe JC, et al. **Anal Biochem** 1997 Jul 15;250(1):124-5

Influence of debris and aggregates on image cytometry DNA measurement of archival tumors. Boudry C, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):153-7

Linear reverberation in the ascending aorta: a cause of multiplane transesophageal echocardiographic artifact [letter] Ducart AR, et al. **Anesthesiology** 1996 Dec; 85(6):1497-8

Computed tomography artifacts associated with craniofacial fixation devices: an experimental study. Anastakis DJ, et al. **Ann Plast Surg** 1996 Oct;37(4):349-55

Pneumatic transport exacerbates interference of room air contamination in blood gas samples. Astles JR, et al. **Arch Pathol Lab Med** 1996 Jul;120(7):642-7

Stimulus artifact reduction in evoked potential measurements. McLean L, et al. **Arch Phys Med Rehabil** 1996 Dec; 77(12):1286-92

Effect of endothelium on the aortic contraction induced by norepinephrine and KCl in isolated rat aorta. Wong KK. **Artery** 1996;22(1):55-60

Use of manganese in RT-PCR eliminates PCR artifacts resulting from DNase I digestion. Bauer P, et al. **Biotechniques** 1997 Jun;22(6):1128-32

Foreign bodies and radiographs [letter] Dyer TA, et al. **Br Dent J** 1997 Mar 22;182(6):208

Incisional biopsy: reducing artefact [letter; comment] Kerawala CJ. **Br J Oral Maxillofac Surg** 1995 Dec; 33(6):396. Comment on: Br J Oral Maxillofac Surg 1995 Aug;33(4):244-7.

Uberschwinger artefact in computed radiographs [letter] Tan TH, et al. **Br J Radiol** 1997 Apr;70:431

Peripheral magnetic resonance angiography: review of techniques, indications and artifacts. Mclennan A, et al. **Can Assoc Radiol J** 1997 Apr;48(2):108-18 (33 ref.)

Equipment-dependent mechanical distortion of a tortuous right coronary artery during PTCA. Schlaifer JD, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):281-3

Facts and artifacts of ancient DNA [comment] Lindahl T. **Cell** 1997 Jul 11;90(1):1-3 (7 ref.). Comment on: Cell 1997 Jul 11;90(1):19-30.

Subnuclear localization of S/MAR-binding proteins is differently affected by in vitro stabilization with heat or Cu2+. Neri LM, et al. **Chromosoma** 1997 Jul;106(2):81-93

Interferences of o-raffinose cross-linked hemoglobin in three methods for serum creatinine. Ali AC, et al. **Clin Chem** 1997 Sep;43(9):1738-43

In vitro effects of a novel hemoglobin-based oxygen carrier on routine chemistry, therapeutic drug, coagulation, hematology, and blood bank assays. Callas DD, et al. **Clin Chem** 1997 Sep;43(9):1744-8

Thiocyanate in smokers interferes with the Nova magnesium ion-selective electrode. Rehak NN, et al. **Clin Chem** 1997 Sep;43(9):1595-600

Appearance of a common catheter in an uncommon location. Gandhi SM, et al. **Clin Nucl Med** 1996 Dec;21(12):973-4

Artifact on bone SPECT of the lumbar spine. Rehm PK, et al. **Clin Nucl Med** 1997 Feb;22(2):133-4

MR imaging of soft tissues adjacent to orthopaedic hardware: techniques to minimize susceptibility artefact. Eustace S, et al. **Clin Radiol** 1997 Aug;52(8):589-94 (9 ref.)

Evaluation of QRS morphological classifiers in the presence of noise. Morales RO, et al. **Comput Biomed Res** 1997 Jun; 30(3):200-10

Artifacts and contaminants in the analysis of food flavor. Etiévant PX. **Crit Rev Food Sci Nutr** 1996 Oct;36(7):733-45 (95 ref.)

An unusual artefact in the terminal deoxynucleotidyl transferase assay for apoptotic cells. Detre S, et al. **Cytometry** 1997 Jul 1;28(3):264-7

Increased urinary IgG/albumin index in normoalbuminuric insulin-dependent diabetic patients: a laboratory artefact. Hoogenberg K, et al. **Diabet Med** 1996 Jul;13(7):651-5

Commercial laboratory practice evaluation of air-dried/rehydrated cervicovaginal smears vs. traditionally-fixed smears. Randall B, et al. **Diagn Cytopathol** 1997 Feb;16(2):174-6

Identification of sequence motifs causing band compressions on human cDNA sequencing. Yamakawa H, et al. **DNA Res** 1996 Apr 30;3(2):81-6

Extraction of ocular artefacts from EEG using independent component analysis. Vigário RN. **Electroencephalogr Clin Neurophysiol** 1997 Sep; 103(3):395-404

Phantom evaluation of simultaneous thallium-201/technetium-99m aquisition in single-photon emission tomography. Cao Z, et al. **Eur J Nucl Med** 1996 Nov;23(11):1514-20

Prevalence of motion artifact simulating aortic dissection on spiral CT using a 180 degree linear interpolation algorithm for reconstruction of the images. Loubeyre P, et al. **Eur Radiol** 1997;7(3):320-2

Gas compression artefacts when testing peak expiratory flow meters with mechanically-driven syringes. Navajas D, et al. **Eur Respir J** 1997 Apr;10(4):901-4

The quantitative alteration of the DNA content in strangulation marks is an artefact. Grellner W, et al. **Forensic Sci Int** 1997 Sep 19;89(1-2):15-20

Ammonium containing buffers should be avoided during enzymatic release of glycans from glycoproteins when followed by reducing terminal derivatization [letter] Küster B, et al. **Glycobiology** 1997 Mar;7(2):vii-ix

Mistyping frequency of the angiotensin-converting enzyme gene polymorphism and an improved method for its avoidance. Odawara M, et al. **Hum Genet** 1997 Aug; 100(2):163-6

Adaptive noise removal from biomedical signals using warped polynomials. Philips W. **IEEE Trans Biomed Eng** 1996 May;43(5):480-92

Multishot rosette trajectories for spectrally selective MR imaging. Noll DC. **IEEE Trans Med Imaging** 1997 Aug; 16(4):372-7 (18 ref.)

Functional neuromuscular stimulation controlled by surface electromyographic signals produced by volitional activation of the same muscle: adaptive removal of the muscle response from the recorded EMG-signal. Sennels S, et al. **IEEE Trans Rehabil Eng** 1997 Jun;5(2):195-206

Is 'diaphragmatic' attenuation a misnomer?. Evaluation of the anatomic cause of 'diaphragmatic' attenuation in SPECT thallium scanning. Elson SH, et al. **Int J Card Imaging** 1997 Apr;13(2):161-4

MRI misinterpretation of spontaneous echo-contrast as a large left atrial thrombus. Raggi P, et al. **Int J Card Imaging** 1996 Jun;12(2):85-8

In vivo ANA is a fixation artifact: nucleosome-complexed antinucleosome autoantibodies bind to the cell surface and are internalized. Kramers K, et al. **J Am Soc Nephrol** 1996 Jun;7(6):946-54

Radiological case of the month. Motion artifact simulating aortic dissection. Nokes SR, et al. **J Ark Med Soc** 1997 Feb;93(9):459-60

Optimal digital filtering requires a different cut-off frequency strategy for the determination of the higher derivatives. Giakas G, et al. **J Biomech** 1997 Aug;30(8):851-5

Artifactual nonlinearity due to wear grooves and friction in four-point bending experiments of cortical bone. Griffin LV, et al. **J Biomech** 1997 Feb;30(2):185-8

Correction for respiration artifact in pulmonary blood pressure signals of ventilated patients. Hoeksel SA, et al. **J Clin Monit** 1996 Sep;12(5):397-403

Identification of movement artefact by the Nellcor N-200 and N-3000 pulse oximeters. Plummer JL, et al. **J Clin Monit** 1997 Mar;13(2):109-13

Blurring of vessels in spiral CT angiography: effects of collimation width, pitch, viewing plane, and windowing in maximum intensity projection. Diederichs CG, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):965-74

"Pseudoocclusion" of the internal carotid artery: a pitfall on

intracranial MRA. Okamoto K, et al.
J Comput Assist Tomogr 1997 Sep–Oct;21(5):831–3

Total hip prosthesis metal–artifact suppression using iterative deblurring reconstruction. Robertson DD, et al.
J Comput Assist Tomogr 1997 Mar–Apr;21(2):293–8

High levels of alpha–amylase in seminal fluid may represent a simple artifact in the collection process [letter] Hochmeister MN, et al. **J Forensic Sci** 1997 May; 42(3):535–6

Amplification of human beta–actin gene by the reverse transcriptase–polymerase chain reaction: implications for assessment of RNA from formalin–fixed, paraffin–embedded material. Dakhama A, et al.
J Histochem Cytochem 1996 Oct;44(10):1205–7

Automatic removal of extrameningeal tissues from MR images of human brain. Bedell BJ, et al.
J Magn Reson Imaging 1996 Nov–Dec;6(6):939–43

Cancellation of metal–induced MRI artifacts with dual–component paramagnetic and diamagnetic material: mathematical modelization and experimental verification. Chauvel B, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):936–8

Motion artifact in T2–weighted fast spin–echo images of the liver: effect on image contrast and reduction of artifact using respiratory triggering in normal volunteers. Choe KA, et al. **J Magn Reson Imaging** 1997 Mar–Apr; 7(2):298–302

Artifact in SE phase images can mimic aortic dissection. den Boer JA, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):964–5

Effect of artifacts due to flowing blood on the reproducibility of phase–contrast measurements of myocardial motion. Drangova M, et al. **J Magn Reson Imaging** 1997 Jul–Aug; 7(4):664–8

Multislice T1–weighted hybrid RARE in CNS imaging: assessment of magnetization transfer effects and artifacts. Melhem ER, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):903–8

Theory and application of static field inhomogeneity effects in gradient–echo imaging. Reichenbach JR, et al.
J Magn Reson Imaging 1997 Mar–Apr;7(2):266–79 (23 ref.)

Additional information pertaining to the MR–compatibility of biopsy needles and devices [letter; comment] Shellock FG, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):411 . Comment on: J Magn Reson Imaging 1995 May–Jun;5(3):369–72.

Combined analysis of spatial and velocity displacement artifacts in phase contrast measurements of complex flows. Steinman DA, et al. **J Magn Reson Imaging** 1997 Mar–Apr; 7(2):339–46

MR navigator–echo monitoring of temporal changes in diaphragm position: implications for MR coronary angiography. Taylor AM, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):629–36

Analysis and comparison of motion–correction techniques in diffusion–weighted imaging. Trouard TP, et al.
J Magn Reson Imaging 1996 Nov–Dec;6(6):925–35

Inadequacy of motion correction algorithms in functional MRI: role of susceptibility–induced artifacts. Wu DH, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):365–70

Separation of water and fat MR images in a single scan at .35 T using "sandwich" echoes. Zhang W, et al.
J Magn Reson Imaging 1996 Nov–Dec;6(6):909–17

Subcellular translocation of Ca2+/calmodulin–dependent protein kinase II: fact or artifact? [letter; comment] Margrie TW, et al. **J Neurochem** 1997 Jul;69(1):435–7. Comment on: J Neurochem 1994 Oct;63(4):1529–37.

Stimulus artifact removal in EMG from muscles adjacent to stimulated muscles. Hines AE, et al.
J Neurosci Methods 1996 Jan;64(1):55–62

Attenuation artifacts in SPECT: effect of wrap–around lung in 180 degrees cardiac studies. Di Bella EV, et al.
J Nucl Med 1996 Nov;37(11):1891–6

Whole–body PET: physiological and artifactual fluorodeoxyglucose accumulations. Engel H, et al.
J Nucl Med 1996 Mar;37(3):441–6

Three–dimensional correction for spillover and recovery of myocardial PET images. Nuyts H, et al. **J Nucl Med** 1996 May;37(5):767–74

Nonuniformity intrinsic flood artifact caused by point–source syringe needle. Hackett MT, et al. **J Nucl Med Technol** 1997 Mar;25(1):41–3

Role of knowledge in human visual temporal integration in spatiotemporal noise. Eckstein MP, et al.
J Opt Soc Am A 1996 Oct;13(10):1960–8

Local luminance nonlinearity and receptor aliasing in the detection of high–frequency gratings. He S, et al.
J Opt Soc Am A 1996 Jun;13(6):1139–51

Perceptual characterization of images degraded by blur and noise: experiments. Kayargadde V, et al.
J Opt Soc Am A 1996 Jun;13(6):1166–77

Perceptual characterization of images degraded by blur and noise: model. Kayargadde V, et al. **J Opt Soc Am A** 1996 Jun;13(6):1178–88

Artifacts in recording immediate mandibular translation: a laboratory investigation. Craddock MR, et al.
J Prosthet Dent 1997 Aug;78(2):172–8

Muscle artifacts in the sleep EEG: automated detection and effect on all–night EEG power spectra. Brunner DP, et al. **J Sleep Res** 1996 Sep;5(3):155–64

Influence of rigid spinal instrumentation on the neurogenic motor evoked potential. Schwartz DM, et al.
J Spinal Disord 1996 Oct;9(5):439–45

Isotope effect in the binding of tritium and 14C–labelled cortisol to corticosteroid–binding–globulin in serum. Lentjes EG, et al. **J Steroid Biochem Mol Biol** 1997 Feb; 60(3–4):255–60

A study of the effects of patient anxiety, perceptions and equipment on motion artifacts in magnetic resonance imaging. Dantendorfer K, et al. **Magn Reson Imaging** 1997; 15(3):301–6

Nonlinear motion artifact reduction in event–triggered gradient–echo FMRI. Langenberger KW, et al.
Magn Reson Imaging 1997;15(2):163–7

MR imaging and cervical fixation devices: evaluation of ferromagnetism, heating, and artifacts at 1.5 Tesla. Shellock FG. **Magn Reson Imaging** 1996;14(9):1093–8

Direct visualisation of B1 inhomogeneity by flip angle dependency. Zelaya FO, et al. **Magn Reson Imaging** 1997; 15(4):497–504

Ghost artifact reduction for echo planar imaging using image phase correction. Buonocore MH, et al.
Magn Reson Med 1997 Jul;38(1):89–100

Alternate k–space sampling in EPI: possible sources of ringing artifacts [letter; comment] Chung HW.
Magn Reson Med 1997 Jul;38(1):173–5. Comment on: Magn Reson Med 1996 Apr;35(4):617–20.

Elimination of artifacts in short echo time H MR spectroscopy of the frontal lobe. Ernst T, et al.
Magn Reson Med 1996 Sep;36(3):462–8

Characterization of and correction for artifacts in linogram MRI. Gai N, et al. **Magn Reson Med** 1997 Feb;37(2):275–84

Artifact reduction in EPI with phase–encoded reference scan. Hu X, et al. **Magn Reson Med** 1996 Jul;36(1):166–71

Biopsy needle susceptibility artifacts. Ladd ME, et al.
Magn Reson Med 1996 Oct;36(4):646–51

Reduction of motion artifacts in cine MRI using variable–density spiral trajectories. Liao JR, et al.
Magn Reson Med 1997 Apr;37(4):569–75

Frequency resolved single–shot MR imaging using stochastic k–space trajectories. Scheffler K, et al.
Magn Reson Med 1996 Apr;35(4):569–76

Algorithms for extracting motion information from navigator echoes. Wang Y, et al. **Magn Reson Med** 1996 Jul; 36(1):117–23

Motion–adapted gating based on k–space weighting for reduction of respiratory motion artifacts. Weiger M, et al.
Magn Reson Med 1997 Aug;38(2):322–33

Correction for vascular artifacts in cerebral blood flow values measured by using arterial spin tagging techniques. Ye FQ, et al. **Magn Reson Med** 1997 Feb;37(2):226–35

Noise–driven neuroplasticity in self–organizing feature maps: a neurocomputational model of phantom limbs. Spitzer M. **MD Comput** 1997 May–Jun;14(3):192–9

Information in magnetic resonance images: evaluation of signal, noise and contrast. De Wilde JP, et al.
Med Biol Eng Comput 1997 May;35(3):259–65

Stimulus artefact in somatosensory evoked potential measurement. Scott RN, et al. **Med Biol Eng Comput** 1997 May;35(3):211–5

How (not) to diagnose growth hormone deficiency in adults: stimulated serum concentrations of growth hormone in healthy subjects and in patients with pituitary macroadenomas. Vierhapper H, et al. **Metabolism** 1997 Jun; 46(6):680–3

Effects of new titanium cerebral aneurysm clips on MRI and CT images. Kato Y, et al. **Minim Invasive Neurosurg** 1996 Sep;39(3):82–5

A new source of electromyographic artifact: mobile phones [letter] Uludağ B, et al. **Muscle Nerve** 1997 Jan;20(1):121–2

Transmission scanning for attenuation correction of myocardial 201Tl images in obese patients. Prvulovich EM, et al. **Nucl Med Commun** 1997 Mar;18(3):207–18

Molecular basis of artifacts in the detection of telomerase activity and a modified primer for a more robust 'TRAP' assay. Krupp G, et al. **Nucleic Acids Res** 1997 Feb 15; 25(4):919–21

Laser artifacts and diagnostic biopsy [letter] Eversole LR. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):639–40

Diagnostic value of magnetic resonance imaging for malignant tumors in the oral and maxillofacial region. Nakayama E, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Dec;82(6):691–7

Unusual radiographic fault [letter] Sansare K.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Mar;83(3):309

Autonomic effects on noise recorded during signal–averaged electrocardiography. Ahmed MW, et al.
Pacing Clin Electrophysiol 1997 Jul;20(7):1796–9

Free and bound biotin molecules in helminths: a source of artifacts for avidin biotin–based immunoassays. Romaris F, et al. **Parasitol Res** 1996;82(7):617–22

Neurone–specific enolase and Sangtec 100 assays during cardiac surgery: Part III—Dose haemolysis affect their accuracy? Gao F, et al. **Perfusion** 1997 May;12(3):171–7

Transient aggregates in protein folding are easily mistaken for folding intermediates. Silow M, et al.
Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6084–6

Chloroquine minimizes sampling artefacts for radioimmunological determination of thromboxane B2 in plasma. Oguogho A, et al.
Prostaglandins Leukot Essent Fatty Acids 1997 May; 56(5):385–8

Motion related artifacts in spin–echo MR imaging: effects of sequence parameters on image quality at 1.5 Tesla. Adjei ON, et al. **Radiat Med** 1996 Jul–Aug;14(4):179–83

Artifacts and pitfalls in MR imaging of the orbit: a clinical review. Herrick RC, et al. **Radiographics** 1997 May–Jun; 17(3):707–24

A guide for technical query contributors. **Radiol Technol** 1997 May–Jun;68(5):432

Bili–beads. Czyz C. **Radiol Technol** 1997 Mar–Apr;68(4):354

Types of diaphragmatic motion during hepatic angiography. Katsuda T, et al. **Radiol Technol** 1997 Jul–Aug;68(6):481–6

Reducing misregistration of mask image in hepatic DSA. Katsuda T, et al. **Radiol Technol** 1997 Jul–Aug;68(6):487–90

Strip drip. Livett PP. **Radiol Technol** 1996 Jul–Aug;67(6):538

Swatchyamacallit. Martin NJ. **Radiol Technol** 1996 Jan–Feb; 67(3):262

It isn't in the wrists? Martin NJ. **Radiol Technol** 1997 Jul–Aug;68(6):512

But for one key factor.... Query T. **Radiol Technol** 1996 Sep–Oct;68(1):100

Gliomas: correlation of magnetic susceptibility artifact with histologic grade. Bagley LJ, et al. **Radiology** 1997 Feb; 202(2):511–6

Memory artifact related to selenium–based digital radiography systems. Chotas HG, et al. **Radiology** 1997 Jun;203(3):881–3

Iterative image reconstruction reduces apparent tumor distortion [letter; comment] Diederichs CG, et al.
Radiology 1997 Jul;204(1):279. Comment on: Radiology 1996 Dec;201(3):873–6.

Hyaline cartilage: truncation artifact as a cause of trilaminar appearance with fat–suppressed three–dimensional spoiled gradient–recalled sequences [see comments] Erickson SJ, et al. **Radiology** 1996 Oct;201(1):260–4. Comment in: Radiology 1997 Jul;204(1):15–6; discussion 17–8.

Internally stabilized spine: optimal choice of frequency–encoding gradient direction during MR imaging minimizes susceptibility artifact from titanium vertebral body screws. Frazzini VI, et al. **Radiology** 1997 Jul; 204(1):268–72

PET data analysis of pulmonary abnormalities [letter; comment] Keyes JW Jr. **Radiology** 1997 Jul;204(1):282–3 . Comment on: Radiology 1997 Feb;202(2):435–9.

Spiral CT artifact that simulates aortic dissection: image reconstruction with use of 180 degrees and 360 degrees linear–interpolation algorithms. Loubeyre P, et al.
Radiology 1997 Oct;205(1):153–7

Laminar structures on MR images of articular cartilage [letter; comment] Rubenstein J, et al. **Radiology** 1997 Jul; 204(1):15–6; discussion 17–8. Comment on: Radiology 1996 Oct;201(1):260–4.

Coronary arteries: retrospective cardiac gating technique to reduce cardiac motion artifact at spiral CT. Woodhouse CE, et al. **Radiology** 1997 Aug;204(2):566–9

The association of nonsense mutation with exon–skipping in hprt mRNA of Chinese hamster ovary cells results from an artifact of RT–PCR. Valentine CR, et al. **RNA** 1997 Jun;3(6):660–76

Normal physiological and benign pathological variants of 18–fluoro–2–deoxyglucose positron–emission tomography scanning: potential for error in interpretation. Cook GJ, et al. **Semin Nucl Med** 1996 Oct;26(4):308–14 (12 ref.)

Technical pitfalls in image acquisition, processing, and display. Forstrom LA, et al. **Semin Nucl Med** 1996 Oct; 26(4):278–94 (44 ref.)

Patient–related pitfalls and artifacts in nuclear medicine imaging. Howarth DM, et al. **Semin Nucl Med** 1996 Oct; 26(4):295–307 (32 ref.)

Radiopharmaceutical–related pitfalls and artifacts. Hung JC, et al. **Semin Nucl Med** 1996 Oct;26(4):208–55 (465 ref.)

Instrument– and computer–related problems and artifacts in nuclear medicine. O'Connor MK. **Semin Nucl Med** 1996 Oct;26(4):256–77 (21 ref.)

The influence of chemical shift artifact on magnetic resonance imaging of the ligamentum flavum at 0.5 tesla. Whitehouse RW, et al. **Spine** 1997 Jan 15;22(2):200–2

In vivo modelling of coagulation factor concentrate thrombogenicity [letter] MacGregor I, et al.
Thromb Haemost 1997 Feb;77(2):405–6

The magic angle effect in musculoskeletal MR imaging. Hayes CW, et al. **Top Magn Reson Imaging** 1996 Feb; 8(1):51–6

False–positive hepatitis B surface antigen screening test results in patients receiving granulocyte–colony–stimulating factor. Mair DC, et al.
Transfusion 1996 Nov–Dec;36(11–12):948–51 (11 ref.)

Methods and reagents. Eliminating banding artifacts from SDS–PAGE. Hengen PN. **Trends Biochem Sci** 1996 May; 21(5):191–3

Differentiation between emboli and artefacts using dual–gated transcranial Doppler ultrasound. Smith JL, et al. **Ultrasound Med Biol** 1996;22(8):1031–6

Artifacts and technical errors presented as part of the 1996 ACVR oral certification examination. Widmer WR, et al.
Vet Radiol Ultrasound 1997 Mar–Apr;38(2):156–8

Citrate–dependent auto–antibody causing error in blood grouping. Joshi SR. **Vox Sang** 1997;72(4):229–32

[Pseudodefects in myocardial SPECT after implantation of defibrillator patches: phantom measurement with SPECT and PET] Buchert R, et al. **Nuklearmedizin** 1996 Dec; 35(6):212–9 (Eng. Abstr.) **(Ger)**

[Artifacts in MR imaging of the temporomandibular joint caused by dental alloys: a phantom model study at T1.5] Fellner C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):421–8 (Eng. Abstr.) **(Ger)**

[Effect of wall thickness of left ventricle on 201Tl myocardial SPECT images: myocardial phantom study] Koto M, et al. **Kaku Igaku** 1996 Jul;33(7):771–7 (Eng. Abstr.) **(Jpn)**

[Spectral methods for automatic determination of artefacts in digital EEG systems] Alhasan A, et al. **Med Tekh** 1996 Jul–Aug;(4):5–7 (Eng. Abstr.) **(Rus)**

[Effect of acute intestinal obstruction on infrared systems for measuring anesthetic gases (letter)] Martinéz A, et al. **Rev Esp Anestesiol Reanim** 1996 Feb;43(2):74 **(Spa)**

ARTIFICIAL FATS see **FAT SUBSTITUTES**

ARTIFICIAL INSEMINATION see **INSEMINATION, ARTIFICIAL**

ARTIFICIAL INTELLIGENCE

see related
NEURAL NETWORKS (COMPUTER)

Cardiac risk stratification in renal transplantation using a form of artificial intelligence. Heston TF, et al. **Am J Cardiol** 1997 Feb 15;79(4):415–7

Can artificial intelligence be of help to psychoanalysis ... or ... vice versa? Rodado J, et al. **Am J Psychoanal** 1996 Dec; 56(4):395–413 (59 ref.)

Decision support techniques for the interpretation of quantitative amino acid data. Briddon A. **Ann Clin Biochem** 1996 May;33 (Pt 3):227–33 (26 ref.)

A process–oriented reasoner about physiology. Arana I, et al. **Artif Intell Med** 1997 Feb;9(2):173–97

Design and validation of an intelligent patient monitoring and alarm system based on a fuzzy logic process model. Becker K, et al. **Artif Intell Med** 1997 Sep;11(1):33–53

Deep assessment of machine learning techniques using patient treatment in acute abdominal pain in children. Blazadonakis M, et al. **Artif Intell Med** 1996 Nov;8(6):527–42

An expert system for the detection of cervical cancer cells using knowledge–based image analyzer. Chan SW, et al. **Artif Intell Med** 1996 Feb;8(1):67–90

An evaluation of machine–learning methods for predicting pneumonia mortality. Cooper GF, et al. **Artif Intell Med** 1997 Feb;9(2):107–38

Don't care values in induction. Diamantidis N, et al. **Artif Intell Med** 1996 Oct;8(5):505–14

Application of the fuzzy ARTMAP neural network model to medical pattern classification tasks. Downs J, et al. **Artif Intell Med** 1996 Aug;8(4):403–28

Temporal reasoning in medicine [editorial] Eravnou ET. **Artif Intell Med** 1996 Jul;8(3):187–91

Abstract temporal diagnosis in medical domains. Gamper J, et al. **Artif Intell Med** 1997 Jul;10(3):209–34

Feasibility analysis of a case–based reasoning system for automated detection of coronary heart disease from myocardial scintigrams. Haddad M, et al. **Artif Intell Med** 1997 Jan;9(1):61–78

Clinical monitoring using regression–based trend templates. Haimowitz IJ, et al. **Artif Intell Med** 1995 Dec;7(6):473–96

Managing temporal worlds for medical trend diagnosis. Haimowitz IJ, et al. **Artif Intell Med** 1996 Jul;8(3):299–321

Temporal diagnostic reasoning based on time–objects. Keravnou ET. **Artif Intell Med** 1996 Jul;8(3):235–65 (61 ref.)

Machine learning in prognosis of the femoral neck fracture recovery. Kukar M, et al. **Artif Intell Med** 1996 Oct; 8(5):431–51

Machine learning techniques in early screening for gastric and oesophageal cancer. Liu WZ, et al. **Artif Intell Med** 1996 Aug;8(4):327–41

Temporal reasoning for diagnosis in a causal probabilistic knowledge base. Long W. **Artif Intell Med** 1996 Jul; 8(3):193–215

Reasoning requirements for diagnosis of heart disease. Long WJ, et al. **Artif Intell Med** 1997 May;10(1):5–24

Case–based learning of plans and goal states in medical diagnosis. López B, et al. **Artif Intell Med** 1997 Jan; 9(1):29–60

Case–based reasoning: opportunities and applications in health care [editorial] Macura RT, et al. **Artif Intell Med** 1997 Jan;9(1):1–4

Utilizing temporal data abstraction for data validation and therapy planning for artificially ventilated newborn infants. Miksch S, et al. **Artif Intell Med** 1996 Nov;8(6):543–76

Synthesis of an anaesthetic agent administration system using fuzzy inductive reasoning. Nebot A, et al. **Artif Intell Med** 1996 May;8(2):147–66

Combining a neural network with case–based reasoning in a diagnostic system. Reategui EB, et al. **Artif Intell Med** 1997 Jan;9(1):5–27

The GRAIL concept modelling language for medical terminology. Rector AL, et al. **Artif Intell Med** 1997 Feb; 9(2):139–71

Diagnosing congenital heart defects using the Fallot computational model. Reed NE, et al. **Artif Intell Med** 1997 May;10(1):25–40

Learning temporal probabilistic causal models from longitudinal data. Riva A, et al. **Artif Intell Med** 1996 Jul; 8(3):217–34

An intelligent system for the diagnosis of complex images. Salvetti O, et al. **Artif Intell Med** 1996 May;8(2):167–85

Knowledge–based temporal abstraction in clinical domains. Shahar Y, et al. **Artif Intell Med** 1996 Jul;8(3):267–98

Introducing spatio–temporal reasoning into the inverse problem in electroencephalography. Siregar P, et al. **Artif Intell Med** 1996 May;8(2):97–122

The interpretation of time–varying data with DIAMON–1. Steimann F. **Artif Intell Med** 1996 Aug;8(4):343–57

A temporal extension to the parsimonious covering theory. Wainer J, et al. **Artif Intell Med** 1997 Jul;10(3):235–55

An implementation of von Neumann's self–reproducing machine. Pesavento U. **Artif Life** 1995 Summer;2(4):337–54

Subassembly generation via mechanical conformational switches. Saitou K, et al. **Artif Life** 1995 Summer; 2(4):377–416

Emergent models of supple dynamics in life and mind. Bedau MA. **Brain Cogn** 1997 Jun;34(1):5–27 (48 ref.)

Artificial evolution: a new path for artificial intelligence? Husbands P, et al. **Brain Cogn** 1997 Jun;34(1):130–59 (65 ref.)

Computing machinery and mentality. McMullin B. **Brain Cogn** 1997 Jun;34(1):28–47 (24 ref.)

Artificial life: a bridge toward a new artificial intelligence. Moreno A, et al. **Brain Cogn** 1997 Jun;34(1):1–4

Cognition and life: the autonomy of cognition. Moreno A, et al. **Brain Cogn** 1997 Jun;34(1):107–29 (65 ref.)

Artificial life and higher level cognition. Parisi D. **Brain Cogn** 1997 Jun;34(1):160–84 (60 ref.)

Autonomy in robots and other agents. Smithers T. **Brain Cogn** 1997 Jun;34(1):88–106

Symbol grounding: a bridge from artificial life, to artificial intelligence. Thompson E. **Brain Cogn** 1997 Jun;34(1):48–71 (42 ref.)

Patterns of life: intertwining identity and cognition. Varela FJ. **Brain Cogn** 1997 Jun;34(1):72–87 (14 ref.)

On the role of a mutational database in building artificial intelligence models for understanding gene expression [letter] Nair TM, et al. **Cell Biochem Biophys** 1995; 27(3):227–30

DROSOPOSON: a knowledge base on chromosomal localization of transposable element insertions in Drosophila. Hoogland C, et al. **Comput Appl Biosci** 1997 Feb;13(1):61–8

AUDILAB: a knowledge–based quality audit simulator for testing laboratories. Brai A, et al. **Comput Biol Med** 1997 May;27(3):201–10

THEMPO: a knowledge–based system for therapy planning in pediatric oncology. Müller R, et al. **Comput Biol Med** 1997 May;27(3):177–200

Artificial intelligence in pediatrics: important clinical signs in newborn syndromes. Braaten O. **Comput Biomed Res** 1996 Jun;29(3):153–61

Qualitative process modeling of cell–cell–pathogen interactions in the immune system. Trelease RB, et al. **Comput Methods Programs Biomed** 1996 Nov;51(3):171–81

Computer–assisted management of primary open–angle glaucoma. Knowledge acquisition and prototype testing. Martin L. **Comput Nurs** 1996 Sep–Oct;14(5):267–71

Knowledge–based patient screening for rare and emerging infectious/parasitic diseases: a case study of brucellosis and murine typhus. Carter CN, et al. **Emerg Infect Dis** 1997 Jan–Mar;3(1):73–6

Validation of a knowledge–based boundary detection algorithm: a multicenter study. Groch MW, et al. **Eur J Nucl Med** 1996 Jun;23(6):662–8

An automated intelligent diagnostic system for the interpretation of umbilical artery Doppler velocimetry. Beksaç MS, et al. **Eur J Radiol** 1996 Sep;23(2):162–7

Building Knowledge–based systems with an assembling technique. Xiao S, et al. **IEEE Eng Med Biol Mag** 1997 Mar–Apr;16(2):81–3

Automatic extraction and measurement of leukocyte motion in microvessels using spatiotemporal image analysis. Sato Y, et al. **IEEE Trans Biomed Eng** 1997 Apr;44(4):225–36

Methodology for using the UMLS as a background knowledge for the description of surgical procedures. Burgun A, et al. **Int J Biomed Comput** 1996 Dec; 43(3):189–202

Building intelligent alarm systems by combining mathematical models and inductive machine learning techniques. Müller B, et al. **Int J Biomed Comput** 1996 Apr; 41(2):107–24 (18 ref.)

Building intelligent alarm systems by combining mathematical models and inductive machine learning techniques Part 2––sensitivity analysis. Müller B, et al. **Int J Biomed Comput** 1996 Aug;42(3):165–79

Cognitive integration of data in intensive care and anaesthesia. Cole WG. **Int J Clin Monit Comput** 1996 May; 13(2):77–9

Self–organizing multi–resolution grid for motion planning and control. Fomin T, et al. **Int J Neural Syst** 1996 Dec; 7(6):757–76

Learning activation rules rather than connection weights. Grundstrom EL, et al. **Int J Neural Syst** 1996 May; 7(2):129–47 (28 ref.)

Attraction basin of bidirectional association memories. Leung CS, et al. **Int J Neural Syst** 1996 Dec;7(6):715–25

Concept hierarchy memory model: a neural architecture for conceptual knowledge representation, learning, and commonsense reasoning. Tan AH, et al. **Int J Neural Syst** 1996 Jul;7(3):305–19

VLSI neural system architecture for finite ring recursive reduction. Zhang D, et al. **Int J Neural Syst** 1996 Dec; 7(6):697–708

A temporal analysis of QMR. Aliferis CF, et al. **J Am Med Inform Assoc** 1996 Jan–Feb;3(1):79–91

The Digital Anatomist distributed framework and its applications to knowledge–based medical imaging [see comments] Brinkley JF, et al. **J Am Med Inform Assoc** 1997 May–Jun;4(3):165–83 (55 ref.). Comment in: J Am Med Inform Assoc 1997 May–Jun;4(3):252–3.

Artificial intelligence in medicine: the challenges ahead. Coiera EW. **J Am Med Inform Assoc** 1996 Nov–Dec; 3(6):363–6

AIM: quo vadis? [editorial] Kulikowski CA. **J Am Med Inform Assoc** 1996 Nov–Dec;3(6):432–3

EON: a component–based approach to automation of protocol–directed therapy. Musen MA, et al. **J Am Med Inform Assoc** 1996 Nov–Dec;3(6):367–88

Automated brain segmentation from single slice, multislice, or whole–volume MR scans using prior knowledge. Saeed N, et al. **J Comput Assist Tomogr** 1997 Mar–Apr; 21(2):192–201

Automatic learning of rules. A practical example of using artificial intelligence to improve computer–based detection of myocardial infarction and left ventricular hypertrophy in the 12–lead ECG. Kaiser W, et al. **J Electrocardiol** 1996; 29 Suppl:17–20

Data mining: sophisticated forms of managed care modeling through artificial intelligence. Borok LS. **J Health Care Finance** 1997 Spring;23(3):20–36 (0 ref.)

The network paradigm [editorial] Bhatty GB. **J Indian Med Assoc** 1996 May;94(5):165–6

Predicting the duration of the first stage of spontaneous labor using a neural network. Devoe LD, et al. **J Matern Fetal Med** 1996 Sep–Oct;5(5):256–61

Object–oriented development of a concept learning system for time–centered clinical data. Sakamoto N. **J Med Syst** 1996 Aug;20(4):183–96

Knowledge–based modeling of a legume lectin and docking of the carbohydrate ligand: the Ulex europaeus lectin I and its interaction with fucose. Gohier A, et al. **J Mol Graph** 1996 Dec;14(6):322–7, 363–4

The contribution of image cytometry and artificial intelligence–related methods of numerical data analysis for adipose tumor histopathologic classification. Goldschmidt D, et al. **Lab Invest** 1996 Sep;75(3):295–306 (62 ref.)

Artificial intelligence and pathology: ready or not? [editorial] Melamed M. **Lab Invest** 1996 Sep;75(3):291–3

Medical housecall, an interactive home medical guide. Abramson R. **MD Comput** 1996 May–Jun;13(3):221–3

ANCA–Tutor: a program that teaches interpretation of an immunofluorescence assay. Wener MH, et al. **MD Comput** 1996 May–Jun;13(3):216–20

Decision–theoretic refinement planning in medical decision making: management of acute deep venous thrombosis [see comments] Haddawy P, et al. **Med Decis Making** 1996 Oct–Dec;16(4):315–25. Comment in: Med Decis Making 1996 Oct–Dec;16(4):419–20.

Decision–theoretic refinement planning [editorial; comment] Hillner BE. **Med Decis Making** 1996 Oct–Dec;16(4):419–20 . Comment on: Med Decis Making 1996 Oct–Dec;16(4):315–25.

Query–handling in MLM–based decision support systems. Arkad K, et al. **Med Inf (Lond)** 1995 Jul–Sep;20(3):229–40

Terminology support for development of sharable knowledge modules. Carlsson M, et al. **Med Inf (Lond)** 1996 Jul–Sep; 21(3):207–14

Computers in diabetes '96. Lehmann ED. **Med Inf (Lond)** 1997 Jan–Mar;22(1):105–18

Using CommonKADS to create a conceptual model of a guideline system for breast cancer prognosis. Sacile R, et al. **Med Inf (Lond)** 1996 Jan–Mar;21(1):45–59

A microcomputer teaching and decision–support system for emergency medicine: use of hypermedia and artificial intelligence in combination. Thoreux PH, et al. **Med Inf (Lond)** 1996 Jan–Mar;21(1):35–43

Methodology for a medical expert system on fuzzy analog ganglionar lattices. Non–approximate reasoning with multiple antecendents of different relative importance and limited uncertainty. Holzmann CA, et al. **Med Prog Technol** 1995–96;21(3):147–58

Medical expert system on fuzzy analog ganglionar lattices: explication and prospection based on sensitivity. Holzmann CA, et al. **Med Prog Technol** 1996–97;21(4):195–203

Representing clinical narratives using conceptual graphs. Baud RH, et al. **Methods Inf Med** 1995 Mar;34(1–2):176–86

Decision support systems from the standpoint of knowledge representation. Degoulet P, et al. **Methods Inf Med** 1995 Mar;34(1–2):202–8

Extended telemedical consultation using Arden Syntax based decision support, hypertext and WWW technique. Karlsson D, et al. **Methods Inf Med** 1997 Feb;36(2):108–14

Supporting multi–level medical education with knowledge–based systems. King K, et al. **Methods Inf Med** 1997 Feb;36(2):102–7

Knowledge–based medical image analysis and representation for integrating content definition with the radiological report. Kulikowski CA, et al. **Methods Inf Med** 1995 Mar; 34(1–2):96–103

Knowledge–acquisition tools for medical knowledge–based systems. Lanzola G, et al. **Methods Inf Med** 1995 Mar; 34(1–2):25–39

ARTIFICIAL INTELLIGENCE

The representation of meaning in the UMLS. McCray AT, et al. **Methods Inf Med** 1995 Mar;34(1–2):193–201

Concepts, knowledge, and language in health–care information systems [editorial] McCray AT, et al. **Methods Inf Med** 1995 Mar;34(1–2):1–4

Computer–aided diagnosis in jaundice: comparison of knowledge–based and probabilistic approaches. Molino G, et al. **Methods Inf Med** 1996 Mar;35(1):41–51

Development of a controlled medical terminology: knowledge acquisition and knowledge representation. Musen MA, et al. **Methods Inf Med** 1995 Mar;34(1–2):85–95

Read Codes Version 3: a user led terminology. O'Neil M, et al. **Methods Inf Med** 1995 Mar;34(1–2):187–92

Cognitive models of clinical reasoning and conceptual representation. Patel VL, et al. **Methods Inf Med** 1995 Mar; 34(1–2):47–56

FreeCall, a system for emergency–call–handling support. Post WM, et al. **Methods Inf Med** 1996 Sep;35(3):242–55

Conceptual analysis for knowledge–base design. Sowa JF. **Methods Inf Med** 1995 Mar;34(1–2):165–71

The use of knowledge–based systems in medicine in developing countries: a luxury or a necessity? Tolmie CJ, et al. **Methods Inf Med** 1997 Feb;36(2):154–9

Navigating to knowledge. Tuttle MS, et al. **Methods Inf Med** 1995 Mar;34(1–2):214–31

Instantiating and monitoring skeletal treatment plans. Uckun S. **Methods Inf Med** 1996 Dec;35(4–5):324–33

The separation of reviewing knowledge from medical knowledge. van der Lei J, et al. **Methods Inf Med** 1995 Mar;34(1–2):131–9

Objects and domains for managing medical data and knowledge. Wiederhold G. **Methods Inf Med** 1995 Mar; 34(1–2):40–6

A nonlinear Hebbian network that learns to detect disparity in random–dot stereograms. Lee CW, et al. **Neural Comput** 1996 Apr 1;8(3):545–66

Application of an artificial intelligence program to therapy of high–risk surgical patients. Patil RS, et al. **New Horiz** 1996 Nov;4(4):541–50

Splice site prediction in Arabidopsis thaliana pre–mRNA by combining local and global sequence information. Hebsgaard SM, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3439–52

Qualitative analysis of temporal information in Iliad: implications for linking Iliad to an electronic medical record as a knowledge server. Bouhaddou O, et al. **Proc AMIA Annu Fall Symp** 1996;:199–203

Making generic guidelines site–specific. Fridsma DB, et al. **Proc AMIA Annu Fall Symp** 1996;:597–601

Automatic knowledge acquisition from medical texts. Hahn U, et al. **Proc AMIA Annu Fall Symp** 1996;:383–7

Assessment of a knowledge–acquisition tool for writing Medical Logic Modules in the Arden Syntax. Jenders RA, et al. **Proc AMIA Annu Fall Symp** 1996;:567–71

Database and knowledge base integration in decision support systems. Johansson B, et al. **Proc AMIA Annu Fall Symp** 1996;:249–53

A design for a World Wide Web decision–support system using a controlled medical terminology. Karlsson D, et al. **Proc AMIA Annu Fall Symp** 1996;:189–93

The patient advocate: a cooperative agent to support patient–centered needs and demands. Miksch S, et al. **Proc AMIA Annu Fall Symp** 1996;:244–8

Knowledge acquisition for temporal abstraction. Stein A, et al. **Proc AMIA Annu Fall Symp** 1996;:204–8

An evaluation of statistical approaches to MEDLINE indexing. Yang Y. **Proc AMIA Annu Fall Symp** 1996; :358–62

Rule induction and instance–based learning applied in medical diagnosis. Džeroski S, et al. **Technol Health Care** 1996 Aug;4(2):203–21

[Computer–assisted evaluation of a "medium resolution" HLA–DRB oligotyping of bone marrow donors] Helmberg W, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:66–71 (Eng. Abstr.) **(Ger)**

[Analytic design and clinical application of an intelligent control system for pharmacotherapy with insulin––1] Peters A, et al. **Biomed Tech (Berl)** 1996 Jan–Feb;41(1–2):2–13 (Eng. Abstr.) **(Ger)**

[Expert systems in medicine] Puppe B. **Chirurg** 1996 Jul; 67(7):suppl 163–6 **(Ger)**

ARTIFICIAL LIMBS

Developing a computer–based expert system for pediatric prosthetic training: a pilot project. Stelzer LM, et al. **Am J Occup Ther** 1997 Jan;51(1):70–3

Effect of prosthetic mass on swing phase work during above–knee amputee ambulation. Gitter A, et al. **Am J Phys Med Rehabil** 1997 Mar–Apr;76(2):114–21

Results of humeral stump angulation osteotomy. Neusel E, et al. **Arch Orthop Trauma Surg** 1997;116(5):263–5

Energy cost of walking: comparison of "intelligent prosthesis" with conventional mechanism. Buckley JG, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):330–3

Lower extremity residual limb slippage within the prosthesis. Commean PK, et al. **Arch Phys Med Rehabil** 1997 May; 78(5):476–85

Transtibial prosthesis for a patient with Kaposi's sarcoma lesions on the residual limb. Ethans KD, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):106–8

Four limb amputations due to electrical burn caused by TV antenna contact with overhead electric cables. Celiköz B, et al. **Burns** 1997 Feb;23(1):81–4 (17 ref.)

Daily functioning of the lower extremity amputee: an overview of the literature. Pernot HF, et al. **Clin Rehabil** 1997 May;11(2):93–106 (71 ref.)

Predicting the use of prostheses by vascular amputees. Campbell WB, et al. **Eur J Vasc Endovasc Surg** 1996 Oct; 12(3):342–5

A quantitative method for comparing and evaluating manual prosthetic socket modifications. Lemaire ED, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):303–9

Rehabilitation of the older amputee [letter] Wainapel SF. **J Am Geriatr Soc** 1997 Aug;45(8):1033

Ingenious use of prosthesis in China [letter] Cheng TO. **J Biocommun** 1997;24(1):2

Silicone suspension of external prostheses. A new era in artificial limb usage. Heim M, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):638–40

Amputation and prostheses in Khartoum. Mohamed IA, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):248–51

Design of a 3–D surface scanner for lower limb prosthetics: a technical note. Commean PK, et al. **J Rehabil Res Dev** 1996 Jul;33(3):267–78

Stability of walking frames. Deathe AB, et al. **J Rehabil Res Dev** 1996 Feb;33(1):30–5

Analysis of a vertical compliance prosthetic foot. Miller LA, et al. **J Rehabil Res Dev** 1997 Jan;34(1):52–7

Interface pressures and shear stresses at thirteen socket sites on two persons with transtibial amputation. Sanders JE, et al. **J Rehabil Res Dev** 1997 Jan;34(1):19–43

A modular six–directional force sensor for prosthetic assessment: a technical note. Sanders JE, et al. **J Rehabil Res Dev** 1997 Apr;34(2):195–202

Generic, geometric finite element analysis of the transtibial residual limb and prosthetic socket. Silver–Thorn MB, et al. **J Rehabil Res Dev** 1997 Apr;34(2):171–86

Parametric analysis using the finite element method to investigate prosthetic interface stresses for persons with trans–tibial amputation. Silver–Thorn MB, et al. **J Rehabil Res Dev** 1996 Jul;33(3):227–38

A review of prosthetic interface stress investigations. Silver–Thorn MB, et al. **J Rehabil Res Dev** 1996 Jul; 33(3):253–66 (64 ref.)

Frictional action at lower limb/prosthetic socket interface. Zhang M, et al. **Med Eng Phys** 1996 Apr;18(3):207–14

The performance of the ICEROSS prostheses amongst transtibial amputees with a special reference to the workplace––a preliminary study. Icelandic Roll on Silicone Socket. Dasgupta AK, et al. **Occup Med (Oxf)** 1997 May; 47(4):228–36

A modular endoprosthetic system for tumor and non–tumor reconstruction: preliminary experience. Freedman EL, et al. **Orthopedics** 1997 Jan;20(1):27–36

Stump–socket interface pressure as an aid to socket design in prostheses for trans–femoral amputees––a preliminary study. Lee VS, et al. **Proc Inst Mech Eng [H]** 1997; 211(2):167–80

A new biomechanical method for determination of static prosthetic alignment. Blumentritt S. **Prosthet Orthot Int** 1997 Aug;21(2):107–13

The life style of young persons after lower limb amputation caused by injury. Burger H, et al. **Prosthet Orthot Int** 1997 Apr;21(1):35–9

The effects of prosthesis mass on metabolic cost of ambulation in non–vascular trans–tibial amputees. Gailey RS, et al. **Prosthet Orthot Int** 1997 Apr;21(1):9–16

The effect of changing the inertia of a trans–tibial dynamic elastic response prosthesis on the kinematics and ground reaction force patterns. Hillery SC, et al. **Prosthet Orthot Int** 1997 Aug;21(2):114–23

Influence of speed on gait parameters and on symmetry in trans–tibial amputees. Isakov E, et al. **Prosthet Orthot Int** 1996 Dec;20(3):153–8

Static versus dynamic prosthetic weight bearing in elderly trans–tibial amputees. Jones ME, et al. **Prosthet Orthot Int** 1997 Aug;21(2):100–6

The population of users of upper limb prostheses attending the Oxford Limb Fitting Service. Kyberd PJ, et al. **Prosthet Orthot Int** 1997 Aug;21(2):85–91

Lifelikeness in multilayered digital prostheses. Leow EL, et al. **Prosthet Orthot Int** 1997 Apr;21(1):40–51

ICEROSS––a consensus view: a questionnaire survey of the use of ICEROSS in the United Kingdom. McCurdie I, et al. **Prosthet Orthot Int** 1997 Aug;21(2):124–8

Synthesis of a cycloidal mechanism of the prosthetic ankle. Pitkin MR. **Prosthet Orthot Int** 1996 Dec;20(3):159–71

Congenital limb anomalies and amputees Tayside, Scotland 1965–1994. Stewart CP, et al. **Prosthet Orthot Int** 1995 Dec;19(3):148–54 (14 ref.)

Double–limb support and step–length asymmetry in below–knee amputees. Isakov E, et al. **Scand J Rehabil Med** 1997 Jun;29(2):75–9

[Prosthesis edge nodule and verrucous hyperplasia in leg amputees] Wlotzke U, et al. **Z Orthop Ihre Grenzgeb** 1997 May–Jun;135(3):233–5 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Control of the residual tibia in transtibial amputation. Pinzur MS, et al. **Foot Ankle Int** 1996 Sep;17(9):538–40

Outcome of fitting an ICEROSS prosthesis: views of trans–tibial amputees. Datta D, et al. **Prosthet Orthot Int** 1996 Aug;20(2):111–5

Painful neuromata following upper limb amputation. Geraghty TJ, et al. **Prosthet Orthot Int** 1996 Dec; 20(3):176–81

Neurapraxia of the common peroneal nerve– a rare complication resulting from wearing a KBM prosthesis: a case report. Reinders MF, et al. **Prosthet Orthot Int** 1996 Dec;20(3):197–8

CLASSIFICATION

Energy storage and release of prosthetic feet. Part 2: Subjective ratings of 2 energy storing and 2 conventional feet, user choice of foot and deciding factor. Postema K, et al. **Prosthet Orthot Int** 1997 Apr;21(1):28–34

Energy storage and release of prosthetic feet. Part 1: Biomechanical analysis related to user benefits. Postema K, et al. **Prosthet Orthot Int** 1997 Apr;21(1):17–27

INSTRUMENTATION

Interface mechanics in lower–limb external prosthetics: a review of finite element models. Zachariah SG, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):288–302 (35 ref.)

A finite element analysis of the load transfer between an above–knee residual limb and its prosthetic socket––roles of interface friction and distal–end boundary conditions. Zhang M, et al. **IEEE Trans Rehabil Eng** 1996 Dec; 4(4):337–46 (45 ref.)

Clinical evaluation of the Modular Electromechanical Lock Actuator (MELA) for above–elbow prostheses: a final report. Cupo ME, et al. **J Rehabil Res Dev** 1996 Feb; 33(1):56–67

Lower limb prosthetic weight limitation. Stewart CP. **Prosthet Orthot Int** 1996 Dec;20(3):195–6

PSYCHOLOGY

Prosthesis satisfaction outcome measurement in pediatric limb deficiency. Pruitt SD, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):750–4

Upper limb traumatic amputees. Review of prosthetic use. Gaine WJ, et al. **J Hand Surg [Br]** 1997 Feb;22(1):73–6

REHABILITATION

Predicting prosthetic rehabilitation outcome in lower limb amputee patients with the functional independence measure. Leung EC, et al. **Arch Phys Med Rehabil** 1996 Jun;77(6):605–8

Stair ambulation in persons with transtibial amputation: an analysis of the Seattle LightFoot. Powers CM, et al. **J Rehabil Res Dev** 1997 Jan;34(i):9–18

STANDARDS

Prosthesis satisfaction outcome measurement in pediatric limb deficiency. Pruitt SD, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):750–4

Mechanism and computer simulation of a new robot hand for potential use as an artificial hand. Lin LR, et al. **Artif Organs** 1997 Jan;21(1):59–69

Outcome of fitting an ICEROSS prosthesis: views of trans–tibial amputees. Datta D, et al. **Prosthet Orthot Int** 1996 Aug;20(2):111–5

Is body powered operation of upper limb prostheses feasible for young limb deficient children? Shaperman J, et al. **Prosthet Orthot Int** 1995 Dec;19(3):165–75

A comparison of energy expenditure by a high level trans–femoral amputee using the Intelligent Prosthesis and conventionally damped prosthetic limbs. Taylor MB, et al. **Prosthet Orthot Int** 1996 Aug;20(2):116–21

UTILIZATION

Mobility of persons after traumatic lower limb amputation. Burger H, et al. **Disabil Rehabil** 1997 Jul;19(7):272–7

ARTIFICIAL LIVER see **LIVER, ARTIFICIAL**

ARTIFICIAL ORGANS

A preliminary evaluation of an innovative synthetic soft tissue simulation module ('Skilltray') for use in basic surgical skills workshops. Thomas WE, et al. **Ann R Coll Surg Engl** 1996 Nov;78(6 Suppl):268–71

XIth World Congress of the International Society for Artificial Organs. Providence, Rhode Island, June 29–July 1, 1997. Abstracts. **Artif Organs** 1997 Jun;21(6):473–586

Organs: allo, artificial, and hybrid. Calne R. **Artif Organs** 1996 Dec;20(12):1269

Sweep gas flowrate and CO2 exchange in artificial lungs. Federspiel WJ, et al. **Artif Organs** 1996 Sep;20(9):1050–2

Membranes in artificial organs. Schmidt B. **Artif Organs** 1996 May;20(5):375–80 (16 ref.)

American Society for Artificial Internal Organs 43rd annual conference. Atlanta, Georgia, May 1–3, 1997. Abstracts. **ASAIO J** 1997 Mar–Apr;43(2):1–97

American Society for Artificial Internal Organs 42nd Annual Conference. Washington, D.C., May 2–4, 1996. Abstracts. **ASAIO J** 1996 Mar–Apr;42(2):1–132

Small intrapulmonary artery lung prototypes. Mathematical modeling of gas transfer. Baskaran H, et al. **ASAIO J** 1996 Sep–Oct;42(5):M597–603

Testing of an intrathoracic artificial lung in a pig model. Cook KE, et al. **ASAIO J** 1996 Sep–Oct;42(5):M604–9

Adult placenta: vascular access for peripheral organ support.

Dembitsky WP. **ASAIO J** 1996 Jan-Feb;42(1):12-5
Adult placenta: heparin bonded extracorporeal life support systems. Golding LA. **ASAIO J** 1996 Jan-Feb;42(1):16-8 (24 ref.)
Polysulfone coating for hollow fiber artificial lungs operated at hypobaric and hyperbaric pressures. High KM, et al. **ASAIO J** 1996 Sep-Oct;42(5):M442-5
A novel method for measuring hollow fiber membrane permeability in a gas-liquid system. Lund LW, et al. **ASAIO J** 1996 Sep-Oct;42(5):M446-51
Adult placenta: the ECMO experience in patients with a coronary artery bypass graft and post cardiotomy cardiogenic shock. Magovern GJ Jr. **ASAIO J** 1996 Jan-Feb;42(1):19-23
New design for a pumping artificial lung. Makarewicz AJ, et al. **ASAIO J** 1996 Sep-Oct;42(5):M615-9
Development of an integrated artificial heart-lung device for long-term cardiopulmonary support. Tatsumi E, et al. **ASAIO J** 1996 Sep-Oct;42(5):M827-32
Keratoprosthesis: preliminary results of an artificial corneal button as a full-thickness implant in the rabbit model. Hicks CR, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):297-303
Transport characterization of membranes for immunoisolation. Dionne KE, et al. **Biomaterials** 1996 Feb; 17(3):257-66
Artificial retina design restores sight to blind. **Biomed Instrum Technol** 1997 Mar-Apr;31(2):169-70
Artificial liver support. Sussman NL, et al. **Clin Invest Med** 1996 Oct;19(5):393-9 (36 ref.)
Oral grasping of a surrogate nipple by the newborn rat. Smotherman WP, et al. **Dev Psychobiol** 1997 Jul;31(1):3-17
XXIIIrd annual congress of the European Society for Artificial Organs. Warsaw, Poland, October 17-19, 1996, Abstracts. **Int J Artif Organs** 1996 Sep;19(9):499-568
Testosterone replacement therapy for male hypogonadism with a radiation-polymerized testicular prosthesis. Imai K, et al. **Int J Urol** 1997 Mar;4(2):157-62
Bladder neck support prosthesis: a nonoperative treatment for stress or mixed urinary incontinence [see comments] Kondo A, et al. **J Urol** 1997 Mar;157(3):824-7. Comment in: J Urol 1997 Mar;157(3):828-9.
Alloplastic replacement of the urinary bladder. Rohrmann D, et al. **J Urol** 1996 Dec;156(6):2094-7
Combined reconstructive and prosthetic surgery in complicated lower urinary tract dysfunction [see comments] Theodorou C, et al. **J Urol** 1997 Feb; 157(2):472-4. Comment in: J Urol 1997 Feb;157(2):475.
Hybrid devices offer hope for the failing liver [news] Bonn D. **Lancet** 1996 Nov 16;348(9038):1372
Artificial lungs on the way—but don't hold your breath [news] Jack D. **Lancet** 1997 Jan 25;349(9047):260
Make a muscle [news] Gibbs WW. **Sci Am** 1996 May; 274(5):33

ADVERSE EFFECTS

Separated flows in artificial organs. A cause of early thrombogenesis? Mandrusov E, et al. **ASAIO J** 1996 Sep-Oct;42(5):M506-13
Unfavorable mechanical effects of heat and moisture exchangers in ventilated patients. Iotti GA, et al. **Intensive Care Med** 1997 Apr;23(4):399-405

ECONOMICS

Cost effectiveness of artificial organ technologies versus conventional therapy. Mussivand T, et al. **ASAIO J** 1997 May-Jun;43(3):230-6

STANDARDS

Surface modification of silicone rubber membrane by plasma induced graft copolymerization as artificial cornea. Hsiue GH, et al. **Artif Organs** 1996 Nov;20(11):1196-207
Seeking a common language for artificial organists, transplantologists, and immunologists [editorial] Nosé Y. **Artif Organs** 1996 Oct;20(10):1061
Long-term evaluation of gas exchange and hydrodynamic performance of a heparinized artificial lung: comparison of two different hollow fiber pore sizes. Crotti S, et al. **Int J Artif Organs** 1997 Jan;20(1):22-8
Laboratory animals for artificial organ evaluation. Giardino R, et al. **Int J Artif Organs** 1997 Feb;20(2):76-80 (12 ref.)
[Severe anal incontinence: treatment by implantation of an artificial anal sphincter] Michot F, et al. **Contracept Fertil Sex** 1997 Jun;25(6):XII-XVII (18 ref.) **(Fre)**

TRENDS

Congress presidential address. Lee CJ. **Artif Organs** 1996 Dec;20(12):1266-8
Medical gas and water: new frontier for artificial organ technologies [editorial] Nosé Y. **Artif Organs** 1997 Jan; 21(1):1
Artificial organs, quo vadis? [editorial] Nosé Y. **Artif Organs** 1997 May;21(5):347-8

ARTIFICIAL PANCREAS see **PANCREAS, ARTIFICIAL**

ARTIFICIAL SKIN see **SKIN, ARTIFICIAL**

ARTIFICIAL SWEETENERS see **SWEETENING AGENTS**

ARTIFICIAL TEARS see **OPHTHALMIC SOLUTIONS**

ARTIFICIAL VENTRICLE see **HEART-ASSIST DEVICES**

ARTIODACTYLA

Parasites and selected diseases of collared peccaries (Tayassu tajacu) in the trans-pecos region of Texas. Gruver KS, et al. **J Wildl Dis** 1996 Jul;32(3):560-2
Husbandry and diseases of captive wild swine and peccaries. Fowler ME. **Rev Sci Tech** 1996 Mar;15(1):141-54 (14 ref.)
The horizontal cells of artiodactyl retinae: a comparison with Cajal's descriptions. Sandmann D, et al. **Vis Neurosci** 1996 Jul-Aug;13(4):735-46
[A comparative study on amino acids of guang horn, buffalo horn and cattle horn] Fan G, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Mar;21(3):139-41, 189 (Eng. Abstr.) **(Chi)**

CLASSIFICATION

More DNA support for a Cetacea/Hippopotamidae clade: the blood-clotting protein gene gamma-fibrinogen. Gatesy J. **Mol Biol Evol** 1997 May;14(5):537-43
Phylogenetic relationships of artiodactyls and cetaceans as deduced from the comparison of cytochrome b and 12S rRNA mitochondrial sequences. Montgelard C, et al. **Mol Biol Evol** 1997 May;14(5):550-9
Phylogenetic evidence from the IRBP gene for the paraphyly of toothed whales, with mixed support for Cetacea as a suborder of Artiodactyla. Smith MR, et al. **Mol Biol Evol** 1996 Sep;13(7):918-22
K-casein gene phylogeny of higher ruminants (Pecora, Artiodactyla). Cronin MA, et al. **Mol Phylogenet Evol** 1996 Oct;6(2):295-311
Evolutionary biology. Even-toed fingerprints on whale ancestry [news; comment] Millinkovitch MC, et al. **Nature** 1997 Aug 14;388(6643):622-4. Comment on: Nature 1997 Aug 14;388(6643):666-70.
Molecular evidence from retroposons that whales form a clade within even-toed ungulates [see comments] Shimamura M, et al. **Nature** 1997 Aug 14;388(6643):666-70 . Comment in: Nature 1997 Aug 14;388(6643):622-4.

GENETICS

A swine SINE (PRE-1 sequence) distribution in swine-related animal species and its phylogenetic analysis in swine genome. Yasue H, et al. **Anim Genet** 1996 Apr; 27(2):95-8
Localization of the 18S, 5.8S and 28S rRNA genes and the 5S rRNA genes in the babirusa and the white-lipped peccary. Zijlstra C, et al. **Cytogenet Cell Genet** 1997; 77(3-4):273-7
DNA sequences of RAPD fragments in artiodactyls. Kostia S, et al. **Genome** 1996 Apr;39(2):456-8
Artiodactyl interspersed DNA repeats in cetacean genomes. Buntjer JB, et al. **J Mol Evol** 1997 Jul;45(1):66-9
More DNA support for a Cetacea/Hippopotamidae clade: the blood-clotting protein gene gamma-fibrinogen. Gatesy J. **Mol Biol Evol** 1997 May;14(5):537-43
Evidence from milk casein genes that cetaceans are close relatives of hippopotamid artiodactyls. Gatesy J, et al. **Mol Biol Evol** 1996 Sep;13(7):954-63
Phylogenetic relationships of artiodactyls and cetaceans as deduced from the comparison of cytochrome b and 12S rRNA mitochondrial sequences. Montgelard C, et al. **Mol Biol Evol** 1997 May;14(5):550-9
The complete mitochondrial DNA sequence of the greater Indian rhinoceros, Rhinoceros unicornis, and the Phylogenetic relationship among Carnivora, Perissodactyla, and Artiodactyla (+ Cetacea). Xu X, et al. **Mol Biol Evol** 1996 Nov;13(9):1167-73
Characterization of microsatellite loci in caribou Rangifer tarandus, and their use in other artiodactyls. Wilson GA, et al. **Mol Ecol** 1997 Jul;6(7):697-9
Instability of quartet analyses of molecular sequence data by the maximum likelihood method: the Cetacea/Artiodactyla relationships. Adachi J, et al. **Mol Phylogenet Evol** 1996 Aug;6(1):72-6
Mitochondrial gene sequences and the molecular systematics of the artiodactyl subfamily bovinae. Janecek LL, et al. **Mol Phylogenet Evol** 1996 Aug;6(1):107-19

METABOLISM

Comparative biochemistry of a cytosolic artiodactyl glycosidase. Cygan J, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):437-46

PHYSIOLOGY

Chemical immobilisation of giraffe to facilitate short procedures. Vogelnest L, et al. **Aust Vet J** 1997 Mar; 75(3):180-2
Serial tranquilization of a reticulated giraffe (Giraffa camelopardalis reticulata) using xylazine. Fischer MT, et al. **J Zoo Wildl Med** 1997 Jun;28(2):182-4

ARVICOLINAE see **MICROTINAE**

ARVICOLINES see **MICROTINAE**

ARYL HYDROCARBON HYDROXYLASES

BLOOD

Lymphocyte esterases and hydroxylases in neurotoxicology. Fournier L, et al. **Vet Hum Toxicol** 1996 Jun;38(3):190-5

CHEMISTRY

Functional interaction between amino-acid residues 242 and 290 in cytochromes P-450 2B1 and 2B11. Harlow GR, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):259-66

DRUG EFFECTS

Effect of hexavalent chromium on drug-metabolizing enzymes in male domesticated rabbits. Anjum F, et al. **J Environ Pathol Toxicol Oncol** 1996;15(1):41-50

ISOLATION & PURIFICATION

Aryl monooxygenase: a detoxifying enzyme from Candida pulcherrima MCMY2. Dey S. **Indian J Biochem Biophys** 1996 Dec;33(6):523-6

METABOLISM

Stability of cytochrome P4501A-associated enzyme activity in cryogenically stored teleost liver samples. Anulacion BF, et al. **Chemosphere** 1997 May;34(9-10):2029-39

ARYL HYDROCARBON RECEPTORS see **RECEPTORS, ARYL HYDROCARBON**

ARYLAMIDASES see **AMINO ACID NAPHTHYLAMIDASES**

ARYLAMINE ACETYLASES see **ARYLAMINE ACETYLTRANSFERASES**

ARYLAMINE ACETYLTRANSFERASES

ANALYSIS

MDA in plasma as a biomarker of exposure to pyrolysed MDI-based polyurethane: correlations with estimated cumulative dose and genotype for N-acetylation. Dalene M, et al. **Int Arch Occup Environ Health** 1996;68(3):165-9
[A test to evaluate the activity of n-acetyltransferase and catalase in pathologic states of pregnancy] Jochemczyk-Banek U, et al. **Ginekol Pol** 1996 Jun; 67(6):279-82 (Eng. Abstr.) **(Pol)**

ANTAGONISTS & INHIBITORS

Pharmacological modifications in dopaminergic neurotransmission affect the quinpirole-evoked suppression of serotonin N-acetyltransferase activity in chick retina: an impact on dopamine D4-like receptors. Zawilska JB, et al. **J Neural Transm** 1996;103(12):1405-14
Prolonged exposure of chicks to light or darkness differentially affects the quinpirole-evoked suppression of serotonin N-acetyltransferase activity in chick retina: an impact on dopamine D4-like receptor. Zawilska JB, et al. **J Pineal Res** 1997 Mar;22(2):59-64
[The effect of light with various wavelengths and impulse times on nocturnal suppression of N'acetyltransferase activation by serotonin in the pineal gland of the chick] Jarmak A, et al. **Klin Oczna** 1996;98(6):417-22 (Eng. Abstr.) **(Pol)**

BIOSYNTHESIS

The human serotonin N-acetyltransferase (EC 2.3.1.87) gene (AANAT): structure, chromosomal localization, and tissue expression. Coon SL, et al. **Genomics** 1996 May 15; 34(1):76-84
Chick pineal clock regulates serotonin N-acetyltransferase mRNA rhythm in culture. Bernard M, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):304-9
Transcriptional control of circadian hormone synthesis via the CREM feedback loop. Foulkes NS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14140-5
Induction of the rat hepatic cytosolic arylamine oxidase by a series of polychlorinated biphenyls: association with the Ah locus. Marczylo T, et al. **Toxicol Lett** 1997 Jul 21; 92(2):81-91

BLOOD

Arylamine N-acetyltransferase in erythrocytes of cystic fibrosis patients. Risch A, et al. **Pharmacol Toxicol** 1996 Apr;78(4):235-40

CHEMISTRY

Study of the role of the highly conserved residues Arg9 and Arg64 in the catalytic function of human N-acetyltransferases NAT1 and NAT2 by site-directed mutagenesis. Deloménie C, et al. **Biochem J** 1997 Apr 1; 323 (Pt 1):207-15
Purification and characterization of arylalkylamine N-acetyltransferase from cockroach testicular organs. Ichihara N, et al. **Insect Biochem Mol Biol** 1997 Mar;

27(3):241–6

DEFICIENCY

Cytosolic arylamine N-acetyltransferase (NAT) deficiency in the dog and other canids due to an absence of NAT genes. Trepanier LA, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):73–80

DRUG EFFECTS

Effects of interferon-gamma and streptolysin O on hepatic procainamide N-acetyltransferase and various microsomal cytochrome P450-dependent monooxygenases in rats. Walter R, et al. **Immunopharmacol Immunotoxicol** 1996 Nov;18(4):571–86

GENETICS

CYP2D6, NAT2 and CYP2E1 genetic polymorphisms in nonagenarians. Agúndez JA, et al. **Age Ageing** 1997 Mar; 26(2):147–51

Polymorphisms in drug-metabolizing enzymes: what is their clinical relevance and why do they exist? [editorial; comment] Nebert DW. **Am J Hum Genet** 1997 Feb; 60(2):265–71 (35 ref.). Comment on: Am J Hum Genet 1997 Feb;60(2):284–95.

Trimodality of isoniazid elimination: phenotype and genotype in patients with tuberculosis. Parkin DP, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1717–22

Heterocyclic amines, cytochrome P4501A2, and N-acetyltransferase: issues involved in incorporating putative genetic susceptibility markers into epidemiological studies. Sinha R, et al. **Ann Epidemiol** 1997 Jul;7(5):350–6

Recombinant expression and catalytic analysis of rapid and slow acetylator Syrian hamster chimeric NAT2 alleles. Hein DW, et al. **Arch Toxicol** 1997;71(5):306–13

Identification of a novel allele at the human NAT1 acetyltransferase locus. Doll MA, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):584–91

Cytosolic arylamine N-acetyltransferase (NAT) deficiency in the dog and other canids due to an absence of NAT genes. Trepanier LA, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):73–80

Determination of human NAT2 acetylator genotype by oligonucleotide ligation assay. Bigler J, et al. **Biotechniques** 1997 Apr;22(4):682–4, 686, 688 passim

Hierarchical modeling of gene–environment interactions: estimating NAT2 genotype-specific dietary effects on adenomatous polyps. Aragaki CC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):307–14

Predictors of N-acetyltransferase activity: should caffeine phenotyping and NAT2 genotyping be used interchangeably in epidemiological studies? Le Marchand L, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun; 5(6):449–55

Arylamine N-acetyltransferase 1 (NAT1) and 2 (NAT2) polymorphisms in susceptibility to bladder cancer: the influence of smoking. Okkels H, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr;6(4):225–31

Lack of association between the polyadenylation polymorphism in the NAT1 (acetyltransferase 1) gene and colorectal adenomas. Probst-Hensch NM, et al. **Carcinogenesis** 1996 Oct;17(10):2125–9

Influence of polymorphic N-acetyltransferase phenotype on the inhibition and induction of acetaminophen bioactivation with long-term isoniazid. Chien JY, et al. **Clin Pharmacol Ther** 1997 Jan;61(1):24–34

Genotyping of N-acetylation polymorphism and correlation with procainamide metabolism. Okumura K, et al. **Clin Pharmacol Ther** 1997 May;61(5):509–17

Mapping AAC1, AAC2 and AACP, the genes for arylamine N-acetyltransferases, carcinogen metabolising enzymes on human chromosome 8p22, a region frequently deleted in tumours. Matas N, et al. **Cytogenet Cell Genet** 1997; 77(3–4):290–5

Xenobiotic metabolism genes and the risk of recurrent spontaneous abortion. Hirvonen A, et al. **Epidemiology** 1996 Mar;7(2):206–8

Association of extracolonic manifestations of familial adenomatous polyposis with acetylation phenotype in a large FAP kindred. Scott RJ, et al. **Eur J Hum Genet** 1997 Jan–Feb;5(1):43–9

The human serotonin N-acetyltransferase (EC 2.3.1.87) gene (AANAT): structure, chromosomal localization, and tissue expression. Coon SL, et al. **Genomics** 1996 May 15; 34(1):76–84

N-acetyltransferase 2 genotype in colorectal cancer and selective gene retention in cancers with chromosome 8p deletions. Hubbard AL, et al. **Gut** 1997 Aug;41(2):229–34

The rat arylalkylamine N-acetyltransferase gene promoter. cAMP activation via a cAMP-responsive element-CCAAT complex. Baler R, et al. **J Biol Chem** 1997 Mar 14;272(11):6979–85

Acetylator phenotype in relation to age and gender in the Baltimore Longitudinal Study of Aging. Korrapati MR, et al. **J Clin Pharmacol** 1997 Feb;37(2):83–91

Glutathione S-transferase and N-acetyltransferase genotypes and asbestos-associated pulmonary disorders. Hirvonen A, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1853–6

Avian melatonin synthesis: photic and circadian regulation of serotonin N-acetyltransferase mRNA in the chicken pineal gland and retina. Bernard M, et al. **J Neurochem** 1997 Jan;68(1):213–24

N-acetyltransferases: pharmacogenetics and clinical consequences of polymorphic drug metabolism. Spielberg SP. **J Pharmacokinet Biopharm** 1996 Oct;24(5):509–19

Cigarette smoking, N-acetyltransferase 2 genetic polymorphisms, and breast cancer risk [see comments] Ambrosone CB, et al. **JAMA** 1996 Nov 13; 276(18):1494–501. Comment in: JAMA 1996 Nov 13;276(18):1511–2. Comment in: JAMA 1997 Feb 19;277(7):533; discussion 534. Comment in: JAMA 1997 Feb 19;277(7):533–4; discussion 534.

Genetic polymorphisms and breast cancer risk [letter; comment] Kazandjian VA. **JAMA** 1997 Feb 19;277(7):533; discussion 534. Comment on: JAMA 1996 Nov 13;276(18):1494–501.

Smokers and breast cancer. 'Chemical individuality' and cancer predisposition [editorial; comment] Lin HJ. **JAMA** 1996 Nov 13;276(18):1511–2. Comment on: JAMA 1996 Nov 13;276(18):1494–501.

Genetic polymorphisms and breast cancer risk [letter; comment] Zahm SH, et al. **JAMA** 1997 Feb 19; 277(7):533–4; discussion 534. Comment on: JAMA 1996 Nov 13;276(18):1494–501.

Human acetyltransferase polymorphisms. Grant DM, et al. **Mutat Res** 1997 May 12;376(1–2):61–70

Identification and prevalence study of 17 allelic variants of the human NAT2 gene in a white population. Agúndez JA, et al. **Pharmacogenetics** 1996 Oct;6(5):423–8

Genetic analysis of the NAT2 and CYP2D6 polymorphisms in white patients with non-insulin-dependent diabetes mellitus. Agúndez JA, et al. **Pharmacogenetics** 1996 Oct; 6(5):465–72

Increased risk for hepatocellular carcinoma in NAT2-slow acetylators and CYP2D6-rapid metabolizers. Agúndez JA, et al. **Pharmacogenetics** 1996 Dec;6(6):501–12

N-acetylation polymorphism in Japanese patients with sarcoidosis. Asada M, et al. **Pharmacogenetics** 1997 Aug; 7(4):341–4

Arylamine N-acetyltransferase (NAT2) genotypes in a Turkish population. Aynacioglu AS, et al. **Pharmacogenetics** 1997 Aug;7(4):327–31

Polymorphic enzymes of xenobiotic metabolism as modulators of acquired P53 mutations in bladder cancer. Brockmöller J, et al. **Pharmacogenetics** 1996 Dec; 6(6):535–45

NAT2*12A (803A−>G) codes for rapid arylamine n-acetylation in humans. Cascorbi I, et al. **Pharmacogenetics** 1996 Jun;6(3):257–9

Genotyping of the polymorphic N-acetyltransferase (NAT2*) gene locus in two native African populations. Deloménie C, et al. **Pharmacogenetics** 1996 Apr;6(2):177–85

Relationship between human genotype and phenotype of N-acetyltransferase (NAT2) as estimated by discriminant analysis and multiple linear regression: 1. Genotype and N-acetylation in vivo. Meisel P, et al. **Pharmacogenetics** 1997 Jun;7(3):241–6

NAT2 genotyping and efficacy of sulfasalazine in patients with chronic discoid lupus erythematosus. Sabbagh N, et al. **Pharmacogenetics** 1997 Apr;7(2):131–5

Polymorphic N-acetyltransferase (NAT2) genotyping of Emiratis. Woolhouse NM, et al. **Pharmacogenetics** 1997 Feb;7(1):73–82

A new mutation C759T in the polymorphic N-acetyltransferase (NAT2) gene. Woolhouse NM, et al. **Pharmacogenetics** 1997 Feb;7(1):83–4

Arylamine N-acetyltransferase in erythrocytes of cystic fibrosis patients. Risch A, et al. **Pharmacol Toxicol** 1996 Apr;78(4):235–40

Cloning of an arylalkylamine N-acetyltransferase (aaNAT1) from Drosophila melanogaster expressed in the nervous system and the gut. Hintermann E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12315–20

Overexpression and large-scale purification of recombinant hamster polymorphic arylamine N-acetyltransferase as a dihydrofolate reductase fusion protein. Sticha KR, et al. **Protein Expr Purif** 1997 Jun;10(1):141–53

3,2'-Dimethyl-4-aminobiphenyl-DNA adduct formation in tumor target and nontarget organs of rapid and slow acetylator Syrian hamsters cogenic at the NAT2 locus. Feng Y, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):315–21

Cloning, sequencing, and recombinant expression of NAT1, NAT2, and NAT3 derived from the C3H/HeJ (rapid) and A/HeJ (slow) acetylator inbred mouse: functional characterization of the activation and deactivation of aromatic amine carcinogens. Fretland AJ, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):360–6

[Genetic and phenotypic polymorphisms in carcinogen-metabolizing enzymes and cancer susceptibility] Watanabe M. **Nippon Rinsho** 1996 Aug; 54(8):2261–75 (60 ref.) (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Localization of polymorphic N-acetyltransferase (NAT2) in tissues of inbred mice. Stanley LA, et al. **Pharmacogenetics** 1997 Apr;7(2):121–30

METABOLISM

A circadian component of the retinal dark-light switch. Firth SI, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):85–7

A fragment consisting of the first 204 amino-terminal amino acids of human arylamine N-acetyltransferase one (NAT1) and the first transacetylation step of catalysis. Sinclair J, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):11–6

Longitudinal distribution of arylamine N-acetyltransferases in the intestine of the hamster, mouse, and rat. Evidence for multiplicity of N-acetyltransferases in the intestine. Ware JA, et al. **Biochem Pharmacol** 1996 Nov 22; 52(10):1613–20

A N(alpha)-acetyltransferase selectively transfers an acetyl group to NH2-terminal methionine residues: purification and partial characterization. Lee FJ, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):244–52

No short-term effects of high-frequency electromagnetic fields on the mammalian pineal gland. Vollrath L, et al. **Bioelectromagnetics** 1997;18(5):376–87

Caffeine as a metabolic probe: NAT2 phenotyping. Notarianni LJ, et al. **Br J Clin Pharmacol** 1996 Mar; 41(3):169–73

Correspondence re: S. H. McQuilkin et al., analysis of within-subject variation of caffeine metabolism when used to determine cytochrome P4501A2 and N-Acetyltransferase-2 activities. Cancer Epidemiol., Biomarkers & Prev., 4: 139–146, 1995 [letter] [see comments] Tang BK, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):231. Comment in: Cancer Epidemiol Biomarkers Prev 1996 Sep;5(9):757–8.

Evidence for arylamine N-acetyltransferase in the nematode Anisakis simplex. Chung JG, et al. **Cancer Lett** 1996 Aug 23;106(1):1–8

Kinetics of arylamine N-acetyltransferase in tissues from human breast cancer. Lee JH, et al. **Cancer Lett** 1997 Jan 1;111(1–2):39–50

Urinary excretion of unmetabolized and phase II conjugates of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline in humans: relationship to cytochrome P4501A2 and N-acetyltransferase activity. Stillwell WG, et al. **Cancer Res** 1997 Aug 15;57(16):3457–64

Structure-activity relationships for substrates and inhibitors of pineal 5-hydroxytryptamine-N-acetyltransferase: preliminary studies. Shen S, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):133–40

Effects of nerve growth factor on splenic norepinephrine and pineal N-acetyl-transferase in neonate rats exposed to alcohol in utero: neuroimmune correlates. Gottesfeld Z, et al. **Int J Dev Neurosci** 1996 Aug;14(5):655–62

Relationship between N-acetyltransferase (NAT) activity and liver protoporphyrin level in experimental porphyria. Watanabe M, et al. **J Dermatol** 1996 Apr;23(4):238–42

Immunochemical detection of arylamine N-acetyltransferase in normal and neoplastic bladder. Stanley LA, et al. **J Histochem Cytochem** 1996 Sep;44(9):1059–67

Demonstration of slow acetylator genotype of N-acetyltransferase in isoniazid neuropathy using an archival hematoxylin and eosin section of a sural nerve biopsy specimen. Yamamoto M, et al. **J Neurol Sci** 1996 Jan;135(1):51–4

Cigarette smoking, N-acetyltransferase 2 genetic polymorphisms, and breast cancer risk [see comments] Ambrosone CB, et al. **JAMA** 1996 Nov 13; 276(18):1494–501. Comment in: JAMA 1996 Nov 13;276(18):1511–2. Comment in: JAMA 1997 Feb 19;277(7):533; discussion 534. Comment in: JAMA 1997 Feb 19;277(7):533–4; discussion 534.

Smokers and breast cancer. 'Chemical individuality' and cancer predisposition [editorial; comment] Lin HJ. **JAMA** 1996 Nov 13;276(18):1511–2. Comment on: JAMA 1996 Nov 13;276(18):1494–501.

Rodent models of the human acetylation polymorphism: comparisons of recombinant acetyltransferases. Hein DW, et al. **Mutat Res** 1997 May 12;376(1–2):101–6

Role of acetyltransferases in the metabolism and carcinogenicity of aromatic amines. King CM, et al. **Mutat Res** 1997 May 12;376(1–2):123–8 (23 ref.)

Evaluation of caffeine as a test drug for CYP1A2, NAT2 and CYP2E1 phenotyping in man by in vivo versus in vitro correlations. Fuhr U, et al. **Pharmacogenetics** 1996 Apr; 6(2):159–76

The early response of pineal N-acetyltransferase activity, melatonin and catecholamine levels in rats irradiated with gamma rays. Kassayová M, et al. **Physiol Res** 1995; 44(5):315–20

The melatonin rhythm-generating enzyme: molecular regulation of serotonin N-acetyltransferase in the pineal gland. Klein DC, et al. **Recent Prog Horm Res** 1997; 52:307–57; discussion 357–8 (72 ref.)

Evidence for arylamine N-acetyltransferase activity in the bacterium Helicobacter pylori. Chung JG, et al. **Toxicol Lett** 1997 Mar 14;91(1):63–71

Evidence for arylamine N-acetyltransferase activity in the fungi Candida albicans. Fang SH, et al. **Toxicol Lett** 1997 Jul 21;92(2):109–16

[The effect of light of various wave lengths on suppression of nocturnal serotonin N-acetyltransferase activity in chick retina] Jarmak A, et al. **Klin Oczna** 1996;98(5):347–51 (Eng. Abstr.) **(Pol)**

[Isoniazid acetylation, its relation to genetic and environmental altitude factors] Taboada Lopez G, et al. **Arch Biol Med Exp (Santiago)** 1987;20(1):13–9 (Eng. Abstr.) **(Spa)**

ARYLSULFATASE A see **CEREBROSIDE-SULFATASE**

ARYLSULFATASE B see **CHONDRO-4-SULFATASE**

ARYLSULFATASES

ANALYSIS

Familial spasmodic dysphonia with low arylsulphatase A (ASA) level [letter; comment] Philpot M. **Acta Neurol Scand** 1996 Jun;93(6):473. Comment on: Acta Neurol Scand 1995 Mar;91(3):196–9.

ANTAGONISTS & INHIBITORS

Daidzein sulfoconjugates are potent inhibitors of sterol sulfatase (EC 3.1.6.2). Wong CK, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):579–83

In vivo activity of 4-methylcoumarin-7-O-sulfamate, a nonsteroidal, nonestrogenic steroid sulfatase inhibitor. Purohit A, et al. **Cancer Res** 1996 Nov 1;56(21):4950–5

Memory enhancement mediated by the steroid sulfatase inhibitor (p-O-sulfamoyl)-N-tetradecanoyl tyramine. Li PK, et al. **Life Sci** 1997;60(3):PL45–51

BIOSYNTHESIS

Expression of the arylsulphatase reporter gene under the control of the nit1 promoter in Chlamydomonas reinhardtii. Ohresser M, et al. **Curr Genet** 1997 Mar;31(3):264–71

DEFICIENCY

Steroid sulphatase deficiency: identification of heterozygotes using hydrolysis of dehydroepiandrosterone sulphate by peripheral leucocytes. Lowis EI, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):219–26

Diagnosis of a deletion of steroid sulfatase by polymerase chain reaction and high-performance liquid chromatography. Sugawara T, et al. **Clin Chim Acta** 1997 Jul 4;263(1):25–32

DIAGNOSTIC USE

Accuracy of the clinical diagnosis of recessive X-linked ichthyosis vs ichthyosis vulgaris. Cuevas-Covarrubias SA, et al. **J Dermatol** 1996 Sep;23(9):594–7

GENETICS

Genes located in and near the human pseudoautosomal region are located in the X-Y pairing region in dog and sheep. Toder R, et al. **Chromosome Res** 1997 Aug;5(5):301–6

Diagnosis of a deletion of steroid sulfatase by polymerase chain reaction and high-performance liquid chromatography. Sugawara T, et al. **Clin Chim Acta** 1997 Jul 4;263(1):25–32

Two isoforms of orthodenticle-related proteins (HpOtx) bind to the enhancer element of sea urchin arylsulfatase gene. Sakamoto N, et al. **Dev Biol** 1997 Jan 15;181(2):284–95

Identification by shotgun sequencing, genomic organization, and functional analysis of a fourth arylsulfatase gene (ARSF) from the Xp22.3 region. Puca AA, et al. **Genomics** 1997 Jun 1;42(2):192–9

A model of corrective gene transfer in X-linked ichthyosis. Freiberg RA, et al. **Hum Mol Genet** 1997 Jun;6(6):927–33

Characterization of point mutations in patients with X-linked ichthyosis. Effects on the structure and function of the steroid sulfatase protein. Alperin ES, et al. **J Biol Chem** 1997 Aug 15;272(33):20756–63

A novel point mutation in the steroid sulfatase gene in X-linked ichthyosis. Morita E, et al. **J Invest Dermatol** 1997 Aug;109(2):244–5

Cloning of the rat steroid sulfatase gene (Sts), a non-pseudoautosomal X-linked gene that undergoes X inactivation. Li XM, et al. **Mamm Genome** 1996 Jun; 7(6):420–4

Gene replacement by homologous recombination in the multicellular green alga Volvox carteri. Hallmann A, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7469–74

METABOLISM

Steroid sulfatase activity in osteoblast cells. Fujikawa H, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):42–7

Epidermal steroid sulfatase and cholesterol sulfotransferase are regulated during late gestation in the fetal rat. Hanley K, et al. **J Invest Dermatol** 1997 Jun;108(6):871–5

Distribution of cholesterol sulfate and its anabolic and catabolic enzymes in various rabbit tissues. Cui Y, et al. **Lipids** 1997 Jun;32(6):599–604

Murine steroid sulfatase gene expression in the brain during postnatal development and adulthood. Mortaud S, et al. **Neurosci Lett** 1996 Sep 13;215(3):145–8

PHYSIOLOGY

The putative role of arylsulfatase in interleukin-2-mediated cytotoxicity and interleukin-7-mediated bactericidal activity of natural killer cells. Toren A, et al. **Ann Hematol** 1997 Feb;74(2):83–7

Immune enhancing effects of dehydroepiandrosterone and dehydroepiandrosterone sulphate and the role of steroid sulphatase. Suitters AJ, et al. **Immunology** 1997 Jun; 91(2):314–21

ARYLSULFATE SULFOHYDROLASES see **ARYLSULFATASES**

ARYLSULFONATES

[Physicochemical properties of suplatast tosilate racemate and enantiomers] Ushio T, et al. **Yakugaku Zasshi** 1996 Nov;116(11):866–75 (Eng. Abstr.) **(Jpn)**

METABOLISM

Conjugative plasmids and the degradation of arylsulfonates in Comamonas testosteroni. Junker F, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2403–10

Assimilation of sulfur from alkyl- and arylsulfonates by Clostridium spp. Denger K, et al. **Arch Microbiol** 1997 Feb-Mar;167(2-3):177–81

Assessment of delta muH+ in Schizosaccharomyces pombe; intracellular inclusion of impermeable agents by electroporation. Höfer M, et al. **Folia Microbiol (Praha)** 1996;41(1):98–100

PHARMACOLOGY

Suplatast tosilate, a new type of antiallergic agent, prevents the expression of airway hyperresponsiveness in guinea pigs [published erratum appears in Eur J Pharmacol 1997 Mar 5;321(3):397] Taniguchi H, et al. **Eur J Pharmacol** 1996 Dec 30;318(2-3):447–54

THERAPEUTIC USE

Anti-inflammatory effect of suplatast tosilate on mild asthma [letter] Sano Y, et al. **Chest** 1997 Sep;112(3):862–3

[Successful treatment of chronic eosinophilic pneumonia with suplatast tosilate] Kusumoto H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):550–4 (Eng. Abstr.) **(Jpn)**

ARYLSULFOTRANSFERASE

ANALYSIS

Differential expression and immunohistochemical localisation of the phenol and hydroxysteroid sulphotransferase enzyme families in the developing lung. Hume R, et al. **Histochem Cell Biol** 1996 Feb;105(2):147–52

ANTAGONISTS & INHIBITORS

Oxidation-dependent inactivation of aryl sulfotransferase IV by primary N-hydroxy arylamines during in vitro assays. King RS, et al. **Carcinogenesis** 1997 Apr;18(4):843–9

BLOOD

Dietary modulation of human platelet phenolsulphotransferase activity. Harris RM, et al. **Xenobiotica** 1996 Dec;26(12):1241–7

CHEMISTRY

Human phenol sulfotransferase pharmacogenetics: STP1 gene cloning and structural characterization. Raftogianis RB, et al. **Pharmacogenetics** 1996 Dec;6(6):473–87

GENETICS

Genomic organization and DNA sequences of two human phenol sulfotransferase genes (STP1 and STP2) on the short arm of chromosome 16. Dooley TP, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):134–40

Detection of a SacI restriction fragment length polymorphism at the human phenolsulphotransferase locus. Jones AL, et al. **Clin Genet** 1996 Mar;49(3):164–5

Human phenol sulfotransferase gene contains two alternative promoters: Structure and expression of the gene. Bernier F, et al. **DNA Cell Biol** 1996 May;15(5):367–75

Improved bacterial expression of the human P form phenolsulfotransferase. Applications to drug metabolism. Lewis AJ, et al. **Drug Metab Dispos** 1996 Nov; 24(11):1180–5

Isolation and characterization of a bovine gene encoding phenol sulfotransferase. Henry T, et al. **Gene** 1996 Oct 3; 174(2):221–4

Cloning, structural organization, and chromosomal mapping of the human phenol sulfotransferase STP2 gene. Gaedigk A, et al. **Genomics** 1997 Mar 1;40(2):242–6

Cloning and sequencing of the Klebsiella K-36 astA gene, encoding an arylsulfate sulfotransferase. Baek MC, et al. **Microbiol Immunol** 1996;40(8):531–7

Human phenol sulfotransferase pharmacogenetics: STP1 gene cloning and structural characterization. Raftogianis RB, et al. **Pharmacogenetics** 1996 Dec;6(6):473–87

METABOLISM

Detection of a SacI restriction fragment length polymorphism at the human phenolsulphotransferase locus. Jones AL, et al. **Clin Genet** 1996 Mar;49(3):164–5

Two phenol sulfotransferase species from one cDNA: nature of the differences. Yang YS, et al. **Protein Expr Purif** 1996 Dec;8(4):423–9

Design, production and characterization of antibodies discriminating between the phenol- and monoamine-sulphating forms of human phenol sulphotransferase. Rubin GL, et al. **Xenobiotica** 1996 Nov; 26(11):1113–9

ARYTENOID CARTILAGE

[Use of a laryngeal mask in cricoarytenoid arthritis: risk of airway obstruction (letter; comment)] Gállego-Franco FJ, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):228. Comment on: Rev Esp Anestesiol Reanim 1994 Sep-Oct;41(5):301–2. **(Spa)**

ANATOMY & HISTOLOGY

Human posterior cricoarytenoid muscle compartments. Anatomy and mechanics. Bryant NJ, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec;122(12):1331–6

The attachments of the conus elasticus to the laryngeal skeleton: physiologic and clinical implications. Reidenbach MM. **Clin Anat** 1996;9(6):363–70

INJURIES

Arytenoid subluxation: implications for the anaesthetist. Hiong YT, et al. **Anaesth Intensive Care** 1996 Oct; 24(5):609–10

Arytenoid dislocation and the laryngeal mask airway [letter] Brimacombe JR. **Anesth Analg** 1997 Aug;85(2):463

Arytenoid cartilage dislocation caused by a laryngeal mask airway treated with chemical splinting. Rosenberg MK, et al. **Anesth Analg** 1996 Dec;83(6):1335–6

[The treatment of dislocation of the arytenoid cartilage by mobilization in indirect microlaryngoscopy] Pascher W, et al. **Vestn Otorinolaringol** 1996 Nov-Dec;(6):27–9 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Arytenoid cartilage necrosis: a rare complication of prolonged endotracheal intubation. Brosch S, et al. **Anesth Analg** 1996 Nov;83(5):1112–4

Changes in length and spatial orientation of the vocal fold with arytenoid adduction in cadaver larynges. Woodson GE, et al. **Ann Otol Rhinol Laryngol** 1997 Jul;106(7 Pt 1):552–5

RADIOGRAPHY

Cricoarytenoid arthritis as an early sign of juvenile chronic arthritis. Bertolani MF, et al. **Clin Exp Rheumatol** 1997 Jan-Feb;15(1):115–6

SURGERY

Endoscopic laser medial arytenoidectomy versus total arytenoidectomy in the management of bilateral vocal fold paralysis. Wani MK, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):857–62

Changes in length and spatial orientation of the vocal fold with arytenoid adduction in cadaver larynges. Woodson GE, et al. **Ann Otol Rhinol Laryngol** 1997 Jul;106(7 Pt 1):552–5

Severe functional laryngeal stenoses treated by endoscopic arytenoidectomy. Plch J, et al. **Eur Arch Otorhinolaryngol** 1996;253(1-2):39–41

Arytenoidopexy for bilateral vocal fold paralysis in young children. Triglia JM, et al. **J Laryngol Otol** 1996 Nov; 110(11):1027–30

[The treatment of dislocation of the arytenoid cartilage by mobilization in indirect microlaryngoscopy] Pascher W, et al. **Vestn Otorinolaringol** 1996 Nov-Dec;(6):27–9 (Eng. Abstr.) **(Rus)**

AS IF PERSONALITY see **PERSONALITY DISORDERS**

ASAFOETIDA see **FERULA**

ASBESTOS

Gastrointestinal cancer mortality of workers in occupations with high asbestos exposures. Kang SK, et al. **Am J Ind Med** 1997 Jun;31(6):713–8

The protective effect of beta-carotene and retinol on ventilatory function in an asbestos-exposed cohort. Chuwers P, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1066–71

Exposure to asbestos fibres during gasket removal. Spence SK, et al. **Ann Occup Hyg** 1996 Oct;40(5):583–8

Canada and France fall out over the risks of asbestos [news] Butler D, et al. **Nature** 1997 Jan 30;385(6615):379

Mesothelioma in a community in the north of England [letter; comment] Greenberg M. **Occup Environ Med** 1997 Jan; 54(1):67–8. Comment on: Occup Environ Med 1996 Aug;53(8):547–52.

New glovebag regulations allow safer, cheaper asbestos removal. Ross K. **Occup Health Saf** 1996 Sep;65(9):52–5

Two dimensional protein patterns of bronchoalveolar lavage fluid from non-smokers, smokers, and subjects exposed to asbestos. Lindahl M, et al. **Thorax** 1996 Oct;51(10):1028–35

Pleural epidermoid carcinoma from displaced skin following extrapleural pneumothorax in a patient exposed to asbestos. Sapino A, et al. **Virchows Arch** 1996 Oct;429(2-3):173–6 (10 ref.)

[Tumor mortality and from other causes in asbestos cement workers at the Casale Montferrato plant]] Magnani C, et al. **Med Lav** 1996 Mar-Apr;87(2):133–46 (Eng. Abstr.) **(Ita)**

ASBESTOS

ADVERSE EFFECTS

Unrecognized asbestos-induced disease. Barroetavena MC, et al. **Am J Ind Med** 1996 Feb;29(2):183–5

Lung cancer and asbestos exposure: asbestosis is not necessary. Egilman D, et al. **Am J Ind Med** 1996 Oct; 30(4):398–406 (55 ref.)

Toxic torts: are they poisoning the scientific literature? [comment] Enterline PE. **Am J Ind Med** 1996 Jul; 30(1):121–2. Comment on: Am J Ind Med 1995 Apr;27(4):593–606.

Asbestos-associated cancers in the Ontario refinery and petrochemical sector. Finkelstein MM. **Am J Ind Med** 1996 Nov;30(5):610–5

Radiographic asbestosis is not a prerequisite for asbestos-associated lung cancer in Ontario asbestos-cement workers. Finkelstein MM. **Am J Ind Med** 1997 Oct; 32(4):341–8

Malignant mesothelioma in paper mill workers: where might the asbestos have come from? [letter; comment] Greenberg M. **Am J Ind Med** 1996 Nov;30(5):641. Comment on: Am J Ind Med 1996 Feb;29(2):123–30.

Screening for asbestos-induced diseases in Finland. Koskinen K, et al. **Am J Ind Med** 1996 Sep;30(3):241–51

Pulmonary function, smoking habits, and high resolution computed tomography (HRCT) early abnormalities of lung and pleural fibrosis in shipyard workers exposed to asbestos. Neri S, et al. **Am J Ind Med** 1996 Nov;30(5):588–95

Smoking intervention in subjects at risk of asbestos-related lung cancer. Waage HP, et al. **Am J Ind Med** 1997 Jun; 31(6):705–12

Respiratory impairments due to dust exposure: a comparative study among workers exposed to silica, asbestos, and coalmine dust. Wang X, et al. **Am J Ind Med** 1997 May; 31(5):495–502

Asbestos-related disorders. A realistic perspective [comment] Rosenberg DM. **Chest** 1997 May;111(5):1424–6. Comment on: Chest 1997 May;111(5):1427–8.

Latency periods in asbestos-related mesothelioma of the pleura. Bianchi C, et al. **Eur J Cancer Prev** 1997 Apr; 6(2):162–6

Cancer risk in the work place, including asbestos. Nicholson WJ. **Eur J Cancer Prev** 1996 Oct;5(5):393–6 (5 ref.)

Malignant pleural mesothelioma from nonoccupational asbestos exposure in Metsovo (north–west Greece): slow end of an epidemic? Sakellariou K, et al. **Eur Respir J** 1996 Jun;9(6):1206–10

Chemoprevention of lung cancer: the beta–Carotene and Retinol Efficacy Trial (CARET) in high–risk smokers and asbestos–exposed workers. Omenn GS, et al. **IARC Sci Publ** 1996;(136):67–85

Respiratory effects of occupational exposure to asbestos. Mukhtar MS, et al. **Indian J Physiol Pharmacol** 1996 Jan; 40(1):98–102

Memory deficits and industrial toxicant exposure: a comparative study of hard metal, solvent and asbestos workers. Jordan CM, et al. **Int J Neurosci** 1997 Jun; 90(1–2):113–28

Non–ischemic myocardial fibrosis after long–term asbestos exposure. Kohama A, et al. **Intern Med** 1996 Aug; 35(8):605–10

Nitric oxide (NO) synthase activity in the lung and NO synthesis in alveolar macrophages of rats increased on exposure to asbestos. Iguchi H, et al. **J Appl Toxicol** 1996 Jul–Aug;16(4):309–15

Malignant peritoneal mesothelioma following asbestos exposure. Manavoğlu O, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):191–4 (27 ref.)

Glutathione S–transferase and N–acetyltransferase genotypes and asbestos–associated pulmonary disorders. Hirvonen A, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1853–6

Asbestos disease in foundrymen [letter] Langer AM, et al. **J Occup Environ Med** 1997 Aug;39(8):699–700

Asbestos disease in foundrymen [letter] Wyart–Remy M. **J Occup Environ Med** 1997 Aug;39(8):700

Radiographic small lung opacities and pleural abnormalities in relation to smoking, urbanization status, and occupational asbestos exposure in Finland. Zitting AJ, et al. **J Occup Environ Med** 1996 Jun;38(6):602–9

Occupational and geographical factors in the epidemiology of malignant mesothelioma. Ross D, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):459–63 (47 ref.)

Lung cinescintigraphy in the dynamic assessment of ventilation and mucociliary clearance of asbestos cement workers. Di Lorenzo L, et al. **Occup Environ Med** 1996 Sep;53(9):628–35

Retention of asbestos fibres in lungs of workers with asbestosis, asbestosis and lung cancer, and mesothelioma in Asbestos township. Dufresne A, et al. **Occup Environ Med** 1996 Dec;53(12):801–7

Routes of asbestos exposure and the development of mesothelioma in an English region. Howel D, et al. **Occup Environ Med** 1997 Jun;54(6):403–9

A meta–analysis of the relation between cumulative exposure to asbestos and relative risk of lung cancer. Lash TL, et al. **Occup Environ Med** 1997 Apr;54(4):254–63

Relation of spirometric function to radiographic interstitial fibrosis in two large workforces exposed to asbestos: an evaluation of the ILO profusion score. Miller A, et al. **Occup Environ Med** 1996 Dec;53(12):808–12

Malignant localized fibrous tumor of the pleura occurring in a person environmentally exposed to tremolite asbestos. Metintas M, et al. **Respiration** 1997;64(3):236–9

Pleural mesothelioma and household asbestos exposure. Schneider J, et al. **Rev Environ Health** 1996 Jan–Jun; 11(1–2):65–70 (68 ref.)

Asbestos, asbestosis, pleural plaques and lung cancer. Hillerdal G, et al. **Scand J Work Environ Health** 1997 Apr; 23(2):93–103 (153 ref.)

Asbestos—a continuing concern [editorial] Karjalainen A. **Scand J Work Environ Health** 1997 Apr;23(2):81–2

Surveillance and intervention studies on respiratory cancers in asbestos–exposed workers. Merler E, et al. **Scand J Work Environ Health** 1997 Apr;23(2):83–92 (86 ref.)

Radiographic small lung opacities and pleural abnormalities as a consequence of asbestos exposure in an adult population. Zitting AJ, et al. **Scand J Work Environ Health** 1995 Dec;21(6):470–7

The aetiology of mesothelioma: are risk factors other than asbestos exposure important? [editorial] Hubbard R. **Thorax** 1997 Jun;52(6):496–7

Asbestos exposure, asbestosis, and asbestos–attributable lung cancer [see comments] Jones RN, et al. **Thorax** 1996 Aug; 51 Suppl 2:S9–15 (41 ref.). Comment in: Thorax 1997 Mar;52(3):306.

Malignant mesothelioma in south east England: clinicopathological experience of 272 cases. Yates DH, et al. **Thorax** 1997 Jun;52(6):507–12

[Asbestos and protection of the population exposed to inhalation of asbestos fibers in public and private buildings] Fournier E. **Bull Acad Natl Med** 1996 Apr;180(4):887–905 **(Fre)**

[Malignant mesothelioma of the pleura] Erika V, et al. **Orv Hetil** 1996 Feb 4;137(5):233–8 (Eng. Abstr.) **(Hun)**

[Lung cancer mortality in Casale Monferrato (Italy) and attributable risk to occupations in the asbestos–cement production] Magnani C, et al. **Epidemiol Prev** 1995 Dec; 19(65):338–41 (Eng. Abstr.) **(Ita)**

[The INSERM report "The effects on health of the main asbestos exposures" and the decision to ban asbestos in France] Merler E. **Epidemiol Prev** 1997 Jan–Mar;21(1):10–3 **(Ita)**

[Diffuse malignant mesothelioma associated with asbestos pleurisy] Hirano K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1390–4 (Eng. Abstr.) **(Jpn)**

[Mortality from malignant neoplasms in men occupationally exposed to asbestos dust] Wilczyńska U, et al. **Med Pr** 1996; 47(5):437–43 (Eng. Abstr.) **(Pol)**

[Assessment of lung cancer risk due to environmental asbestos dust exposure in the general population] Szeszenia–Dąbrowska N, et al. **Przegl Epidemiol** 1995; 49(4):407–16 (Eng. Abstr.) **(Pol)**

[Assessment of cancer risk in the general population of Poland due to asbestos exposure. I. Basis of methodology] Szymczak W, et al. **Przegl Epidemiol** 1995;49(4):399–406 (Eng. Abstr.) **(Pol)**

[Consequences of exposure to asbestos dust] Kotela I, et al. **Przegl Lek** 1996;53(8):631–3 (Eng. Abstr.) **(Pol)**

[Prevention of bronchitis in workers of the integrated asbestos mining–enriching works] Andreev LP. **Probl Tuberk** 1997;(1):62 **(Rus)**

ANALYSIS

Analysis of asbestos bodies in BAL from subjects with particular exposures. De Vuyst P, et al. **Am J Ind Med** 1997 Jun;31(6):699–704

Fiber analysis in lungs of residents of a Japanese town with endemic pleural plaques. Murai Y, et al. **Arch Environ Health** 1997 Jul–Aug;52(4):263–9

You're the flight surgeon. Stoner PS Jr. **Aviat Space Environ Med** 1996 Apr;67(4):382–3

Asbestos bodies in bronchoalveolar lavage in relation to asbestos bodies and asbestos fibres in lung parenchyma. Karjalainen A, et al. **Eur Respir J** 1996 May;9(5):1000–5

Relevance of asbestos bodies in sputum. Teschler H, et al. **Eur Respir J** 1996 Apr;9(4):680–6

Asbestos bodies in bronchoalveolar lavage fluid and sputum. Capellaro E, et al. **Med Lav** 1997 Mar–Apr;88(2):99–107

Asbestos bodies in sputum of asbestos exposed workers. Scansetti G, et al. **Med Lav** 1996 Jul–Aug;87(4):283–8

Asbestos exposure of building maintenance personnel. Mlynarek S, et al. **Regul Toxicol Pharmacol** 1996 Jun; 23(3):213–24

Relationship between asbestos bodies in sputum and the number of specimens. Sulotto F, et al. **Scand J Work Environ Health** 1997 Feb;23(1):48–53

[Concentration of asbestos fibers in urothelial tumors and in the neoplasm–free bladder wall] Pollice L, et al. **G Ital Med Lav** 1995 Jan–Nov;17(1–6):11–5 (Eng. Abstr.) **(Ita)**

[The requirements for the reproducibility of an analysis of background environmental pollution by fibrous particulates (letter)] Maddalon G. **Med Lav** 1996 Sep–Oct;87(5):437–8 **(Ita)**

[The determination of asbestos fiber concentration by scanning electron microscopy: a comparison of the results obtained by different laboratories] Paoletti L, et al. **Med Lav** 1996 Sep–Oct;87(5):386–93 (Eng. Abstr.) **(Ita)**

CHEMISTRY

A study of the synergistic interaction of asbestos fibers with cigarette tar extracts for the generation of hydroxyl radicals in aqueous buffer solution. Valavanidis A, et al. **Free Radic Biol Med** 1996;20(6):853–8

Free radical activity associated with the surface of particles: a unifying factor in determining biological activity? Donaldson K, et al. **Toxicol Lett** 1996 Nov;88(1–3):293–8

HISTORY

The asbestos TLV: early evidence of inadequacy. Egilman D, et al. **Am J Ind Med** 1996 Sep;30(3):369–70

Magic, menace, myth and malice [editorial; comment] Liddell FD. **Ann Occup Hyg** 1997 Jan;41(1):3–12. Comment on: Ann Occup Hyg 1997 Jan;41(1):13–36.

[The judgement of the Civil and Criminal Court of Turin, Section II, in the suit of the British Asbestos Company Limited versus Il Progresso del Canavese e delle Valli di Stura (31 August 1906)] Carnevale F. **Epidemiol Prev** 1997 Jan–Mar;21(1):65–73 **(Ita)**

ISOLATION & PURIFICATION

Asbestos bodies in the sputum of workers exposed to environmental pollution. Alderisio M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2965–8

Relationships between ferruginous bodies and uncoated asbestos fibers in lung tissue. Dodson RF, et al. **Arch Environ Health** 1996 Nov–Dec;51(6):462–6

Analysis of asbestos fiber burden in lung tissue from mesothelioma patients. Dodson RF, et al. **Ultrastruct Pathol** 1997 Jul–Aug;21(4):321–36

PHARMACOKINETICS

Is there transplacental transfer of asbestos? A study of 40 stillborn infants. Haque AK, et al. **Pediatr Pathol Lab Med** 1996 Nov–Dec;16(6):877–92

PHARMACOLOGY

Asbestos causes translocation of p65 protein and increases NF–kappa B DNA binding activity in rat lung epithelial and pleural mesothelial cells. Janssen YM, et al. **Am J Pathol** 1997 Aug;151(2):389–401

Inhaled asbestos fibers induce p53 expression in the rat lung. Mishra A, et al. **Am J Respir Cell Mol Biol** 1997 Apr; 16(4):479–85

Asbestos induction of nuclear transcription factors and interleukin 8 gene regulation. Simeonova PP, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):787–95

Induction of ferritin synthesis in human lung epithelial cells treated with crocidolite asbestos. Fang R, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):369–75

Inhibition of protein kinase C prevents asbestos–induced c–fos and c–jun proto–oncogene expression in mesothelial cells. Fung H, et al. **Cancer Res** 1997 Aug 1;57(15):3101–5

Asbestos causes stimulation of the extracellular signal–regulated kinase 1 mitogen–activated protein kinase cascade after phosphorylation of the epidermal growth factor receptor. Zanella CL, et al. **Cancer Res** 1996 Dec 1;56(23):5334–8

TOXICITY

Asbestos promotes morphological transformation and elevates expression of a gene family invariably induced by tumor promoters in C3H/10T1/2 cells. Parfett CL, et al. **Carcinogenesis** 1996 Dec;17(12):2719–26

Protective effect of natural flavonoids on rat peritoneal macrophages injury caused by asbestos fibers. Kostyuk VA, et al. **Free Radic Biol Med** 1996;21(4):487–93

Transfection of a manganese–containing superoxide dismutase gene into hamster tracheal epithelial cells ameliorates asbestos–mediated cytotoxicity. Mossman BT, et al. **Free Radic Biol Med** 1996;21(2):125–31

Asbestos induces apoptosis of human and rabbit pleural mesothelial cells via reactive oxygen species. Broaddus VC, et al. **J Clin Invest** 1996 Nov 1;98(9):2050–9

In vitro effects of large and small glass fibers on rat alveolar macrophages. Castranova V, et al. **J Toxicol Environ Health** 1996 Nov;49(4):357–69

Sister chromatid exchange frequency in inhabitants exposed to asbestos in Turkey. Dönmez H, et al. **Mutat Res** 1996 Dec 12;361(2–3):129–32

Induction of micronuclei, hyperdiploidy and chromosomal breakage affecting the centric/pericentric regions of chromosomes 1 and 9 in human amniotic fluid cells after treatment with asbestos and ceramic fibers. Dopp E, et al. **Mutat Res** 1997 Jun 9;377(1):77–87

Spontaneous p53 mutation in murine mesothelial cells: increased sensitivity to DNA damage induced by asbestos and ionizing radiation. Cistulli CA, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):264–71

[Asbestos risk for companion animals] Misdorp W. **Tijdschr Diergeneeskd** 1997 Jan 15;122(2):50–1 **(Dut)**

ASBESTOS, AMOSITE

ADVERSE EFFECTS

Progression of pleural and parenchymal disease on chest radiographs of workers exposed to amosite asbestos. Shepherd JR, et al. **Occup Environ Med** 1997 Jun; 54(6):410–5

ANALYSIS

Talc and amosite/crocidolite preferentially deposited in the lungs of nonoccupational female lung cancer cases in urban areas of Japan. Yamada H, et al. **Environ Health Perspect** 1997 May;105(5):504–8

CHEMISTRY

Mineral phases and some reexamined characteristics of the International Union Against Cancer standard asbestos samples. Kohyama N, et al. **Am J Ind Med** 1996 Nov; 30(5):515–28

TOXICITY

Differential effects of tumor necrosis factor and asbestos fibers on manganese superoxide dismutase induction and oxidant-induced cytotoxicity in human mesothelial cells. Pietarinen-Runtti P, et al. **Cell Biol Toxicol** 1996 Jun; 12(3):167–75

Neutrophil and asbestos fiber-induced cytotoxicity in cultured human mesothelial and bronchial epithelial cells. Kinnula VL, et al. **Free Radic Biol Med** 1995 Mar; 18(3):391–9

ASBESTOS, AMPHIBOLE

Acid leaching studies of neutron-irradiated chyrsotile asbestos. Morgan A, et al. **Ann Occup Hyg** 1997 Jun; 41(3):269–79

Acid leaching studies of chrysotile asbestos from mines in the Coalinga region of California and from Quebec and British Columbia. Morgan A. **Ann Occup Hyg** 1997 Jun; 41(3):249–68

ADVERSE EFFECTS

An epidemiological study in an Anatolian village in Turkey environmentally exposed to tremolite asbestos. Cöplü L, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):177–82

Mesothelioma in a community in the north of England [see comments] Edward AT, et al. **Occup Environ Med** 1996 Aug;53(8):547–52. Comment in: Occup Environ Med 1997 Jan;54(1):67–8.

Malignant localized fibrous tumor of the pleura occurring in a person environmentally exposed to tremolite asbestos. Metintas M, et al. **Respiration** 1997;64(3):236–9

CHEMISTRY

Mineral phases and some reexamined characteristics of the International Union Against Cancer standard asbestos samples. Kohyama N, et al. **Am J Ind Med** 1996 Nov; 30(5):515–28

TOXICITY

Asbestos-related cancer and the amphibole hypothesis. The amphibole hypothesis: neither gone nor forgotten [letter; comment] Langer AM, et al. **Am J Public Health** 1997 Apr;87(4):688–9; discussion 690–1. Comment on: Am J Public Health 1996 Feb;86(2):158–9. Comment on: Am J Public Health 1996 Feb;86(2):179–86.

Asbestos-related cancer and the amphibole hypothesis. The hypothesis is still supported by scientists and scientific data [letter; comment] Mossman BT, et al. **Am J Public Health** 1997 Apr;87(4):689–90; discussion 690–1. Comment on: Am J Public Health 1996 Feb;86(2):158–9. Comment on: Am J Public Health 1996 Feb;86(2):179–86.

Asbestos-related cancer and the amphibole hypothesis. The first documentation of the association [letter; comment] Wagner JC. **Am J Public Health** 1997 Apr;87(4):687–8. Comment on: Am J Public Health 1996 Feb;86(2):158–9. Comment on: Am J Public Health 1996 Feb;86(2):179–86.

ASBESTOS, CROCIDOLITE

Lung mesothelial cell and fibroblast responses to pleural and alveolar macrophage supernatants and to lavage fluids from crocidolite-exposed rats. Adamson IY, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):650–6

Were asbestos-filtered Kent cigarettes sold in Australia? [letter] Chapman S, et al. **Aust N Z J Public Health** 1996 Apr;20(2):218–9

Glutathione modulates the formation of 8-hydroxydeoxyguanosine in isolated DNA and mutagenicity in Salmonella typhimurium TA100 induced by mineral fibres. Howden PJ, et al. **Carcinogenesis** 1996 Oct;17(10):2275–7

ADVERSE EFFECTS

Comparison of measures of exposure to asbestos in former crocidolite workers from Wittenoom Gorge, W. Australia. de Klerk NH, et al. **Am J Ind Med** 1996 Nov;30(5):579–87

Asbestos-related mortality among Italian migrants to Western Australia [letter] Merler E, et al. **Epidemiology** 1996 Sep;7(5):556–7

Crocidolite and not chrysotile was mainly used by the Italian railroad system [letter; comment] Merler E, et al. **Med Lav** 1996 May–Jun;87(3):268–9. Comment on: Med Lav 1995 Sep–Oct;86(5):461–77.

ANALYSIS

Talc and amosite/crocidolite preferentially deposited in the lungs of nonoccupational female lung cancer cases in urban areas of Japan. Yamada H, et al. **Environ Health Perspect** 1997 May;105(5):504–8

CHEMISTRY

Mineral phases and some reexamined characteristics of the International Union Against Cancer standard asbestos samples. Kohyama N, et al. **Am J Ind Med** 1996 Nov; 30(5):515–28

Biological durability and oxidative potential of a stonewool mineral fibre compared to crocidolite asbestos fibres. Hippeli S, et al. **Arch Toxicol** 1997;71(8):532–5

PHARMACOLOGY

Novel cell imaging techniques show induction of apoptosis and proliferation in mesothelial cells by asbestos. Goldberg JL, et al. **Am J Respir Cell Mol Biol** 1997 Sep;17(3):265–71

Asbestos causes stimulation of the extracellular signal-regulated kinase 1 mitogen-activated protein kinase cascade after phosphorylation of the epidermal growth factor receptor. Zanella CL, et al. **Cancer Res** 1996 Dec 1;56(23):5334–8

Differences in the sensitivity of hamster and rat lung cells exposed in vitro to natural and man-made fibres. Aufderheide M, et al. **Exp Toxicol Pathol** 1996 Nov; 48(6):505–7

TOXICITY

Asbestos induces apoptosis in human alveolar macrophages. Hamilton RF, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L813–9

Iron mobilization from crocidolite as enhancer of collagen content in rat lung fibroblasts. Gardi C, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1659–65

Detection of 8-oxo-2'-deoxyguanosine, a marker of oxidative DNA damage, in culture medium from human mesothelial cells exposed to crocidolite asbestos. Chen Q, et al. **Carcinogenesis** 1996 Nov;17(11):2525–7

Patterns of 8-hydroxydeoxyguanosine formation in DNA and indications of oxidative stress in rat and human pleural mesothelial cells after exposure to crocidolite asbestos. Fung H, et al. **Carcinogenesis** 1997 Apr;18(4):825–32

Long crocidolite asbestos fibers cause polyploidy by sterically blocking cytokinesis. Jensen CG, et al. **Carcinogenesis** 1996 Sep;17(9):2013–21

Differential diagnosis of malignant tumours in the abdominal cavity of rats after intraperitoneal injection of crocidolite or benzo[a]pyrene. Friemann J, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):13–7

Macrophage phagocytic activity and cell phagocytic capacity following intratracheal instillation of a comixture of asbestos fibers. Trosic I, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):238–40

Mesothelial cell proliferation and biopersistence of wollastonite and crocidolite asbestos fibers. Macdonald JL, et al. **Fundam Appl Toxicol** 1997 Aug;38(2):173–83

Cytotoxicity and multinucleate giant cell formation in Chinese hamster lung fibroblast caused by crocidolite and chrysotile. Hong YC, et al. **J Korean Med Sci** 1997 Apr; 12(2):99–104

In vivo accumulation of iron on crocidolite is associated with decrements in oxidant generation by the fiber. Ghio AJ, et al. **J Toxicol Environ Health** 1997 Feb 7;50(2):125–42

ASBESTOS, SERPENTINE

Acid leaching studies of neutron-irradiated chyrsotile asbestos. Morgan A, et al. **Ann Occup Hyg** 1997 Jun; 41(3):269–79

Acid leaching studies of chrysotile asbestos from mines in the Coalinga region of California and from Quebec and British Columbia. Morgan A. **Ann Occup Hyg** 1997 Jun; 41(3):249–68

ADVERSE EFFECTS

Colorectal cancer in asbestos cement workers in Denmark. Raffn E, et al. **Am J Ind Med** 1996 Sep;30(3):267–72

Chrysotile asbestos is the main cause of pleural mesothelioma. Smith AH, et al. **Am J Ind Med** 1996 Sep;30(3):252–66 (113 ref.)

Pulmonary fibrogenesis after three consecutive inhalation exposures to chrysotile asbestos. Coin PG, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1511–9

The 1891–1920 birth cohort of Quebec chrysotile miners and millers: development from 1904 and mortality to 1992 [see comments] Liddell FD, et al. **Ann Occup Hyg** 1997 Jan; 41(1):13–36. Comment in: Ann Occup Hyg 1997 Jan;41(1):3–12.

Immunohistochemical localization of transforming growth factor-beta and insulin-like growth factor-I in asbestosis in the sheep model. Lee TC, et al. **Int Arch Occup Environ Health** 1997;69(3):157–64

Crocidolite and not chrysotile was mainly used by the Italian railroad system [letter; comment] Merler E, et al. **Med Lav** 1996 May–Jun;87(3):268–9. Comment on: Med Lav 1995 Sep–Oct;86(5):461–77.

Reanalysis of mortality from lung cancer among diatomaceous earth industry workers, with consideration of potential confounding by asbestos exposure. Checkoway H, et al. **Occup Environ Med** 1996 Sep;53(9):645–7

Exposure and mineralogical correlates of pulmonary fibrosis in chrysotile asbestos workers. Green FH, et al. **Occup Environ Med** 1997 Aug;54(8):549–59

Lung cancer in asbestos cement workers in Denmark [letter; comment] Greenberg M. **Occup Environ Med** 1997 Feb; 54(2):143. Comment on: Occup Environ Med 1996 Jun;53(6):399–402.

ANALYSIS

[Concentration and fiber size of asbestos in lungs of residents living close to the serpentinite area] Sakai K, et al. **Nippon Koshu Eisei Zasshi** 1996 Jul;43(7):551–62 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Mineral phases and some reexamined characteristics of the International Union Against Cancer standard asbestos samples. Kohyama N, et al. **Am J Ind Med** 1996 Nov; 30(5):515–28

PHARMACOKINETICS

A comparative study of the clearance of respirable para-aramid, chrysotile and glass fibres from rat lungs. Searl A. **Ann Occup Hyg** 1997 Apr;41(2):217–33

PHARMACOLOGY

Alveolar macrophages stimulated with titanium dioxide, chrysotile asbestos, and residual oil fly ash upregulate the PDGF receptor-alpha on lung fibroblasts through an IL-1beta-dependent mechanism. Lindroos PM, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):283–92

[Effect of chrysotile-asbestos and zeolites dust on generations of reactive oxygen species by alveolar macrophages and granulocytes] Gusev VA, et al. **Vopr Med Khim** 1997 May–Jun;43(3):148–52 (Eng. Abstr.) **(Rus)**

TOXICITY

Asbestos induces apoptosis in human alveolar macrophages. Hamilton RF, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L813–9

Rapid activation of PDGF-A and -B expression at sites of lung injury in asbestos-exposed rats. Liu JY, et al. **Am J Respir Cell Mol Biol** 1997 Aug;17(2):129–40

Effect of kerosene and its soot on the chrysotile-mediated toxicity to the rat alveolar macrophages. Arif JM, et al. **Environ Res** 1997 Feb;72(2):151–61

Chrysotile asbestos and H2O2 increase permeability of alveolar epithelium. Gardner SY, et al. **Exp Lung Res** 1997 Jan–Feb;23(1):1–16

Incorporation of bromodeoxyuridine (BrdU) in the bronchiolar-alveolar regions of the lungs following two inhalation exposures to chrysotile asbestos in strain A/J mice. Dixon D, et al. **J Environ Pathol Toxicol Oncol** 1995; 14(3–4):205–13

Cytotoxicity and multinucleate giant cell formation in Chinese hamster lung fibroblast caused by crocidolite and chrysotile. Hong YC, et al. **J Korean Med Sci** 1997 Apr; 12(2):99–104

Chrysotile asbestos fibers mediate homologous recombination in Rat2 lambda fibroblasts: implications for carcinogenesis. Lezon-Geyda K, et al. **Mutat Res** 1996 Dec 12; 361(2–3):113–20

Chrysotile inhibits glutathione-dependent protection against the onset of lipid peroxidation in rat lung microsomes. Arif JM, et al. **Pharmacol Toxicol** 1996 Oct;79(4):205–10

Cultured airway epithelium responses to mineral particles: role of the oxidative stress. Guilianelli C, et al. **Toxicol Lett** 1996 Nov;88(1–3):39–44

Pulmonary effects in rats inhaling size-separated chrysotile asbestos fibres or p-aramid fibrils: differences in cellular proliferative responses. Warheit DB, et al. **Toxicol Lett** 1996 Nov;88(1–3):287–92

ASBESTOSIS

Asbestosis and silicosis. Wagner GR. **Lancet** 1997 May 3; 349(9061):1311–5 (36 ref.)

CLASSIFICATION

Computer-assisted classification system for chest X-ray and computed tomography findings in occupational lung disease. Kraus T, et al. **Int Arch Occup Environ Health** 1997;69(6):482–6

COMPLICATIONS

Talc and amosite/crocidolite preferentially deposited in the lungs of nonoccupational female lung cancer cases in urban areas of Japan. Yamada H, et al. **Environ Health Perspect** 1997 May;105(5):504–8

Acquired nasopharyngeal obstruction and "Metsovo lung". Shevas AT, et al. **Rhinology** 1995 Dec;33(4):240–3

Asbestos exposure, asbestosis, and asbestos-attributable lung cancer [see comments] Jones RN, et al. **Thorax** 1996 Aug; 51 Suppl 2:S9–15 (41 ref.). Comment in: Thorax 1997 Mar;52(3):306.

Asbestos and lung cancer [letter; comment] Rudd R. **Thorax** 1997 Mar;52(3):306. Comment on: Thorax 1996

Aug;51 Suppl 2:S9–15.
[Asbestosis and primary Gougerot–Sjögren syndrome (letter)] Delbrel X, et al. **Rev Med Interne** 1996;17(9):775–6 **(Fre)**
[Biological autoimmune syndrome with antiphospholipid antibodies in occupational asbestosis (letter)] Vernhes JP, et al. **Rev Med Interne** 1997;18(4):342 **(Fre)**
[Information for expanding occupational disease 4104 regarding "laryngeal carcinoma" diagnosis] Nowak D. **Pneumologie** 1996 Dec;50(12):895–6 **(Ger)**
[Benign asbestos pleural effusion. Report of a first series in Spain] Ferrer J, et al. **Med Clin (Barc)** 1996 Oct 26; 107(14):535–8 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Diagnosis of asbestosis. Primum non nocere [see comments] Beckett WS. **Chest** 1997 May;111(5):1427–8. Comment in: Chest 1997 May;111(5):1424–6.
Asbestos–related disorders. A realistic perspective [comment] Rosenberg DM. **Chest** 1997 May;111(5):1424–6. Comment on: Chest 1997 May;111(5):1427–8.
Relevance of asbestos bodies in sputum. Teschler H, et al. **Eur Respir J** 1996 Apr;9(4):680–6
Differentiation of the ILO boundary chest roentgenograph (0/1 to 1/0) in asbestosis by high–resolution computed tomography scan, alveolitis, and respiratory impairment. Harkin TJ, et al. **J Occup Environ Med** 1996 Jan; 38(1):46–52
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 20–1997. A 74–year–old man with progressive cough, dyspnea, and pleural thickening [clinical conference] Scully RE, et al. **N Engl J Med** 1997 Jun 26;336(26):1895–903
[Criteria for diagnosis of occupational asbestosis of the pulmonary parenchyma and pleura (letter)] Kurajica L. **Arh Hig Rada Toksikol** 1996 Dec;47(4):421–3 **(Scr)**
[On the article by M. Zavalić, A. Bogadi–Sare "Criteria for diagnosis of occupational asbestosis of the pulmonary parenchyma and pleura" (letter; comment)] Kurajica L. **Arh Hig Rada Toksikol** 1996 Jun;47(2):229–32. Comment on: Arh Hig Rada Toksikol 1995 Dec;46(4):433–44. **(Scr)**

EPIDEMIOLOGY

Unrecognized asbestos–induced disease. Barroetavena MC, et al. **Am J Ind Med** 1996 Feb;29(2):183–5
Lung cancer and asbestos exposure: asbestosis is not necessary. Egilman D, et al. **Am J Ind Med** 1996 Oct; 30(4):398–406 (55 ref.)
Pulmonary function, smoking habits, and high resolution computed tomography (HRCT) early abnormalities of lung and pleural fibrosis in shipyard workers exposed to asbestos. Neri S, et al. **Am J Ind Med** 1996 Nov;30(5):588–95
Asbestos, asbestosis, pleural plaques and lung cancer. Hillerdal G, et al. **Scand J Work Environ Health** 1997 Apr; 23(2):93–103 (153 ref.)

ETIOLOGY

Non–ischemic myocardial fibrosis after long–term asbestos exposure. Kohama A, et al. **Intern Med** 1996 Aug; 35(8):605–10
Exposure and mineralogical correlates of pulmonary fibrosis in chrysotile asbestos workers. Green FH, et al. **Occup Environ Med** 1997 Aug;54(8):549–59
Asbestosis: clinical spectrum and pathogenic mechanisms. Kamp DW, et al. **Proc Soc Exp Biol Med** 1997 Jan; 214(1):12–26 (149 ref.)
[Further evaluation of occupational activities of recipients of compensation for asbestosis (letter)] Germani D, et al. **Med Lav** 1997 Mar–Apr;88(2):166–8 **(Ita)**

GENETICS

The glutathione S–transferase theta and mu deletion polymorphisms in asbestosis. Kelsey KT, et al. **Am J Ind Med** 1997 Mar;31(3):274–9

HISTORY

An early study of pulmonary asbestosis among manufacturing workers: original data and reconstruction of the 1932 cohort. Borron SW, et al. **Am J Ind Med** 1997 Mar; 31(3):324–34
The asbestos TLV: early evidence of inadequacy. Egilman D, et al. **Am J Ind Med** 1996 Sep;30(3):369–70
Magic, menace, myth and malice [editorial; comment] Liddell FD. **Ann Occup Hyg** 1997 Jan;41(1):3–12. Comment on: Ann Occup Hyg 1997 Jan;41(1):13–36.

MORTALITY

Radiographic asbestosis is not a prerequisite for asbestos–associated lung cancer in Ontario asbestos–cement workers. Finkelstein MM. **Am J Ind Med** 1997 Oct; 32(4):341–8
Cancer incidence and mortality among Finnish asbestos sprayers and in asbestosis and silicosis patients. Oksa P, et al. **Am J Ind Med** 1997 Jun;31(6):693–8
Clinical predictors of mortality from asbestosis in the North American Insulator Cohort, 1981 to 1991. Markowitz SB, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):101–8
The 1891–1920 birth cohort of Quebec chrysotile miners and millers: development from 1904 and mortality to 1992 [see comments] Liddell FD, et al. **Ann Occup Hyg** 1997 Jan; 41(1):13–36. Comment in: Ann Occup Hyg 1997 Jan;41(1):3–12.
Asbestos–related mortality among Italian migrants to Western Australia [letter] Merler E, et al. **Epidemiology** 1996 Sep;7(5):556–7
[A mortality study of recipients of compensation for asbestosis in Italy (1980–1990)] Germani D, et al. **Med Lav** 1996 Sep–Oct;87(5):371–85 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Immunohistochemical localization of transforming growth factor–beta and insulin–like growth factor–I in asbestosis in the sheep model. Lee TC, et al. **Int Arch Occup Environ Health** 1997;69(3):157–64
Retention of asbestos fibres in lungs of workers with asbestosis, asbestosis and lung cancer, and mesothelioma in Asbestos township. Dufresne A, et al. **Occup Environ Med** 1996 Dec;53(12):801–7
Relationship between asbestos bodies in sputum and the number of specimens. Sulotto F, et al. **Scand J Work Environ Health** 1997 Feb;23(1):48–53
[Mesothelioma. Pathology/pathogenesis/mesothelioma register] Müller KM. **Pneumologie** 1997 Apr;51(4):335–44 (18 ref.) **(Ger)**
[Use of a bronchoscope for thoracoscopic observation and diagnosis of pleural plaques] Mizuno K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr;35(4):471–6 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Asbestos–related bilateral diffuse pleural thickening: natural history of radiographic and lung function abnormalities [letter; comment] Miller A. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1919–20. Comment on: Am J Respir Crit Care Med 1996 Jan;153(1):301–6.
[A 5–year before–and–after comparison of lung function in asbestos workers] Wang M, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):94–6 (Eng. Abstr.) **(Chi)**
[Characteristics of respiratory and cardiovascular systems of workers with extended length of service at asbestos plants] Milishnikova VV, et al. **Med Tr Prom Ekol** 1997;(4):12–5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Radiographic asbestosis is not a prerequisite for asbestos–associated lung cancer in Ontario asbestos–cement workers. Finkelstein MM. **Am J Ind Med** 1997 Oct; 32(4):341–8
Asbestos plaques in a typical Veteran's hospital population. Miller JA, et al. **Am J Ind Med** 1996 Dec;30(6):726–9
Asbestos–related bilateral diffuse pleural thickening: natural history of radiographic and lung function abnormalities [letter; comment] Miller A. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1919–20. Comment on: Am J Respir Crit Care Med 1996 Jan;153(1):301–6.
Computer–assisted classification system for chest X–ray and computed tomography findings in occupational lung disease. Kraus T, et al. **Int Arch Occup Environ Health** 1997;69(6):482–6

VETERINARY

[Asbestos risk for companion animals] Misdorp W. **Tijdschr Diergeneeskd** 1997 Jan 15;122(2):50–1 **(Dut)**

ASCARIASIS

Biliary ascariasis: a worm in the bag. Nyugen H, et al. **Aust N Z J Surg** 1997 Aug;67(8):574–5
Endoscopy and biliary parasites. Bhargava DK. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):139–52 (65 ref.)
Ascariasis and hookworm. Sarinas PS, et al. **Semin Respir Infect** 1997 Jun;12(2):130–7 (45 ref.)
[The trend of the gallstone disease in China over the past decade] Zhu X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):652–8 (Eng. Abstr.) **(Chi)**
[Presence of Ascaris lumbricoides in the esophagus and stomach: an exceptional endoscopic observation (letter)] Tomás A, et al. **Gastroenterol Hepatol** 1997 Jun–Jul; 20(6):335 **(Spa)**

COMPLICATIONS

Intestinal obstruction due to ascariasis. Wasadikar PP, et al. **Br J Surg** 1997 Mar;84(3):410–2
Intestinal obstruction caused by Ascaris lumbricoides. Akgun Y. **Dis Colon Rectum** 1996 Oct;39(10):1159–63
Gastric ascariasis: a rare cause of upper gastrointestinal bleeding. Pontes JM, et al. **Endoscopy** 1996 Nov;28(9):792–3
Acalculous cholecystitis: ascariasis as an unusual cause. Kuzu MA, et al. **J Gastroenterol** 1996 Oct;31(5):747–9 (4 ref.)
Management of intestinal obstruction caused by ascariasis. Salman AB. **J Pediatr Surg** 1997 Apr;32(4):585–7
An unusual cause of haemobilia: biliary ascariasis. Corr P, et al. **Pediatr Radiol** 1997 Apr;27(4):348–9
Ascaris lumbricoides appendicitis in the tropics. Singh PA, et al. **Trop Doct** 1997 Oct;27(4):241
[Recurrent palpebral edema caused by ascaridiasis] Castellazzo R. **Minerva Oftalmol** 1967 Jul–Aug;9(4):146–9 (Eng. Abstr.) **(Ita)**
[A case of severe malnutrition due to Ascaris lumbricoides infestation in a boy] Castiglione N, et al. **Pediatr Med Chir** 1996 Nov–Dec;18(6):615–7 (8 ref.) (Eng. Abstr.) **(Ita)**

DIAGNOSIS

A case of biliary ascariasis associated with calculi in the gall bladder and the common bile duct. Tan TH. **Singapore Med J** 1995 Aug;36(4):442–3
[An ascaris in the lacrimal duct. Apropos of a case in Zaire] Kanapumbi N, et al. **Sante** 1996 Jul–Aug;6(4):258–9 (Eng. Abstr.) **(Fre)**
[Recurrent abdominal pain] Alsalameh S, et al. **Med Klin** 1997 Aug 15;92(8):471 **(Ger)**
[Liver abscess caused by Ascaris lumbricoides. Memorandum about hepatic changes in adopted children from developing countries] Sandholm E. **Lakartidningen** 1997 Jul 9; 94(28–29):2553–4 **(Swe)**

DRUG THERAPY

Intraductal administration of albendazole for biliary ascariasis. van den Bogaerde JB, et al. **Am J Gastroenterol** 1997 Sep;92(9):1531–3
Biliary ascariasis—a letter to the editor [letter; comment] Shuaib IL, et al. **Med J Malaysia** 1995 Sep;50(3):284. Comment on: Med J Malaysia 1995 Mar;50(1):118–9.
Improvements in appetite and growth in helminth–infected schoolboys three and seven weeks after a single dose of pyrantel pamoate. Hadju V, et al. **Parasitology** 1996 Nov; 113 (Pt 5):497–504
Ascariasis in the subdistrict of Cavacos, municipality of alterosa (MG), Brazil: effect of mass treatment with albendazole on the intensity of infection. Machado MT, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug; 38(4):265–71

EPIDEMIOLOGY

Intestinal parasitic infestation among different population groups of Andaman and Nicobar islands. Sugunan AP, et al. **J Commun Dis** 1996 Dec;28(4):253–9
Ascaris, people and pigs in a rural community of Jiangxi Province, China. Peng W, et al. **Parasitology** 1996 Dec;113 (Pt 6):545–57
Morbidity and mortality due to Ascaris–induced intestinal obstruction. de Silva NR, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):31–6
Surgical ascariasis in children [letter] Erskine JA. **Trop Doct** 1997 Oct;27(4):253
Morbidity and mortality due to ascariasis: re–estimation and sensitivity analysis of global numbers at risk. de Silva NR, et al. **Trop Med Int Health** 1997 Jun;2(6):519–28
[Ecoepidemiology of Ascaris lumbricoides in an endemic area and its relation with blood groups] Morales GA, et al. **Acta Cient Venez** 1994;45(4):287–91 (Eng. Abstr.) **(Spa)**
[Intestinal geohelminthosis in man and domestic animals in the riverside sections of the Valdivia River Basin, Chile] Torres P, et al. **Bol Chil Parasitol** 1995 Jul–Dec; 50(3–4):57–66 (82 ref.) (Eng. Abstr.) **(Spa)**
[Degree of aggregation of Ascaris lumbricoides according to age groups after a massive antihelmilthic intervention] Ruíz A, et al. **Salud Publica Mex** 1996 Jul–Aug; 38(4):249–56 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Evaluation of IgG4 response in ascariasis by ELISA for serodiagnosis. Chatterjee BP, et al. **Trop Med Int Health** 1996 Oct;1(5):633–9
Peripheral and nasal eosinophilia and serum total immunoglobulin E levels in children with ascariasis. Yazicioğlu M, et al. **Turk J Pediatr** 1996 Oct–Dec; 38(4):477–84

METABOLISM

Relationship of childhood protein–energy malnutrition and parasite infections in an urban African setting. Tshikuka JG, et al. **Trop Med Int Health** 1997 Apr;2(4):374–82

PARASITOLOGY

Ascariasis. Khuroo MS. **Gastroenterol Clin North Am** 1996 Sep;25(3):553–77 (58 ref.)
Ascaris suum: a revision of its early migratory path and implications for human ascariasis. Murrell KD, et al. **J Parasitol** 1997 Apr;83(2):255–60

PATHOLOGY

Transient multiple hepatic nodules with marked infiltration of eosinophils caused by ascariasis. Arao S, et al. **Am J Gastroenterol** 1997 May;92(5):897–8

PHYSIOPATHOLOGY

A possible influence of diet composition on the establishment of nematodes in the pig. Bjørn H, et al. **Vet Parasitol** 1996 May;63(1–2):167–71

PREVENTION & CONTROL

A school-based approach to the control of urinary schistosomiasis and intestinal helminth infections in children in Matuga, Kenya: impact of a two-year chemotherapy programme on prevalence and intensity of infections. Magnussen P, et al. **Trop Med Int Health** 1997 Sep;2(9):825–31

Immunisation regimes used to elevate serum IgE in sheep. Yilmaz H, et al. **Vet Immunol Immunopathol** 1996 Dec; 55(1–3):141–50

RADIOGRAPHY

CT findings in pediatric gastrointestinal ascariasis. Beitia AO, et al. **Comput Med Imaging Graph** 1997 Jan–Feb;21(1):47–9

SURGERY

Surgical ascariasis in children in Kashmir. Pandit SK, et al. **Trop Doct** 1997 Jan;27(1):13–4

THERAPY

Endoscopy-assisted emergency treatment of gastroduodenal and pancreatobiliary ascariasis. Misra SP, et al. **Endoscopy** 1996 Sep;28(7):629–32

The whirlpool jet technique for removal of pancreatic duct ascaris. Sandouk F, et al. **Gastrointest Endosc** 1997 Aug; 46(2):180–2

TRANSMISSION

Experimental transfer of Ascaris suum from donor pigs to helminth naive pigs. Jungersen G, et al. **J Parasitol** 1996 Oct;82(5):752–6

Socioeconomic and behavioral factors affecting the prevalence of geohelminths in preschool children. de Silva NR, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar;27(1):36–42

ULTRASONOGRAPHY

Biliary ascariasis. Kubaska SM, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):492

Sonographic evaluation of biliary ascariasis. Mani S, et al. **Australas Radiol** 1997 May;41(2):204–6

The role of sonography in the early diagnosis of biliopancreatic Ascaris infestation. Larrubia JR, et al. **J Clin Gastroenterol** 1996 Jan;22(1):48–50

Intestinal ascariasis as a cause of bowel obstruction in two patients: sonographic diagnosis. Coşkun A, et al. **J Clin Ultrasound** 1996 Jul–Aug;24(6):326–8

In vivo and in vitro studies on the sonographical detection of Ascaris lumbricoides. Hoffmann H, et al. **Pediatr Radiol** 1997 Mar;27(3):226–9

[Sonographic imaging of Ascaris lumbricoides] Barzilai M, et al. **Harefuah** 1996 Oct;131(7–8):247–8, 295 (Eng. Abstr.) **(Heb)**

VETERINARY

False-positive Ascaris suum egg counts in pigs. Boes J, et al. **Int J Parasitol** 1997 Jul;27(7):833–8

The effect of fasting on Ascaris suum and Oesophagostomum spp. in growing pigs. Petkevičius S, et al. **Int J Parasitol** 1997 Apr;27(4):431–7

Transmission dynamics of helminth parasites of pigs on continuous pasture: Ascaris suum and Trichuris suis. Roepstorff A, et al. **Int J Parasitol** 1997 May;27(5):563–72

Improved method for the recovery of Ascarus suum larvae from pig intestinal mucosa. Murrell KD, et al. **J Parasitol** 1997 Apr;83(2):321–4

Immunisation regimes used to elevate serum IgE in sheep. Yilmaz H, et al. **Vet Immunol Immunopathol** 1996 Dec; 55(1–3):141–50

[Occurrence of Parascaris equorum in foals and adult horses under different breeding conditions] Gawor JJ. **Wiad Parazytol** 1996;42(2):213–9 (Eng. Abstr.) **(Pol)**

[Effect of Hydrochloric acid on invasion of Ascaris suum; enzyme activity in the digestive system and serum of newborn piglets] Jabłonowski Z, et al. **Wiad Parazytol** 1995; 41(4):413–9 (Eng. Abstr.) **(Pol)**

ASCARIDIA

METABOLISM

Vasoactive intestinal polypeptide–like and peptide histidine isoleucine–like proteins excreted/secreted by Nippostrongylus brasiliensis, Nematodirus battus and Ascaridia galli. Foster N, et al. **Parasitology** 1996 Sep;113 (Pt 3):287–92

PHYSIOLOGY

Ascaridia galli populations in chickens following single infections with different dose levels. Permin A, et al. **Parasitol Res** 1997;83(6):614–7

ASCARIDIA GALLI see **ASCARIDIA**

ASCARIDIASIS

DRUG THERAPY

[Efficacy of pyrantel pamoate in ascaridiasis in Vietmanese children (letter)] Bui XV, et al. **Med Trop (Mars)** 1997; 57(1):99–100 **(Fre)**

PREVENTION & CONTROL

[Impact of improved sanitary conditions and domestic hygiene on the incidence of ascaridiasis and ancylostomiasis in children two to four years old in the rural zones of Ivory Coast] Messou E, et al. **Bull Soc Pathol Exot** 1997; 90(1):48–50 (Eng. Abstr.) **(Fre)**

VETERINARY

Ascaridia galli populations in chickens following single infections with different dose levels. Permin A, et al. **Parasitol Res** 1997;83(6):614–7

[Effect of vitamin A and protein levels in the diet of chickens infected with Ascaridia galli on activity of digestive enzymes in pancreas and small intestine] Zóttowska K, et al. **Wiad Parazytol** 1995;41(4):421–8 (Eng. Abstr.) **(Pol)**

ASCARIDIDA

DRUG EFFECTS

Effects of the synergistic action of febantel and pyrantel on the nematode Heterakis spumosa: a light and transmission electron microscopy study. Mehlhorn H, et al. **Parasitol Res** 1997;83(5):419–34

In vitro anthelmintic activity of root-tuber extract of Flemingia vestita, an indigenous plant in Shillong, India. Tandon V, et al. **Parasitol Res** 1997;83(5):492–8

GENETICS

Chromatin diminution in nematodes. Müller F, et al. **Bioessays** 1996 Feb;18(2):133–8 (43 ref.)

ISOLATION & PURIFICATION

Natural superinfection of Parascaris equorum in a stall-confined orphan horse foal. Lyons ET, et al. **Vet Parasitol** 1996 Nov 1;66(1–2):119–23

ASCARIDIDA INFECTIONS

Infestation from Lagochilascaris minor in Mexico. Vargas-Ocampo F, et al. **Int J Dermatol** 1997 Jan; 36(1):56–8

DRUG THERAPY

Effect of ivermectin on the migration of Baylisascaris transfuga larvae into the brain of mice. Papini R, et al. **Folia Parasitol (Praha)** 1996;43(2):157–8

PARASITOLOGY

Effects of the synergistic action of febantel and pyrantel on the nematode Heterakis spumosa: a light and transmission electron microscopy study. Mehlhorn H, et al. **Parasitol Res** 1997;83(5):419–34

VETERINARY

Baylisascaris procyonis larva migrans in a puppy: a case report and update for the veterinarian. Rudmann DG, et al. **J Am Anim Hosp Assoc** 1996 Jan–Feb;32(1):73–6

Baylisascaris larva migrans in a spider monkey (Ateles sp.). Garlick DS, et al. **J Med Primatol** 1996 Apr;25(2):133–6

Naturally occurring cerebral nematodiasis due to Baylisascaris larval migration in two black-and-white ruffed lemurs (Varecia variegata variegata) and suspected cases in three emus (Dromaius novaehollandiae). Campbell GA, et al. **J Zoo Wildl Med** 1997 Jun;28(2):204–7

Experimental infection/transmission of sculpins (Myoxocephalus scorpius) and cod (Gadus morhua) by sealworm (Pseudoterranova decipiens) larvae. Jensen T. **Parasitol Res** 1997;83(4):380–2

Natural superinfection of Parascaris equorum in a stall-confined orphan horse foal. Lyons ET, et al. **Vet Parasitol** 1996 Nov 1;66(1–2):119–23

ASCARIDOIDEA

Infestation from Lagochilascaris minor in Mexico. Vargas-Ocampo F, et al. **Int J Dermatol** 1997 Jan; 36(1):56–8

Baylisascaris larva migrans in a spider monkey (Ateles sp.). Garlick DS, et al. **J Med Primatol** 1996 Apr;25(2):133–6

Experimental infection/transmission of sculpins (Myoxocephalus scorpius) and cod (Gadus morhua) by sealworm (Pseudoterranova decipiens) larvae. Jensen T. **Parasitol Res** 1997;83(4):380–2

DRUG EFFECTS

Effect of ivermectin on the migration of Baylisascaris transfuga larvae into the brain of mice. Papini R, et al. **Folia Parasitol (Praha)** 1996;43(2):157–8

ISOLATION & PURIFICATION

Baylisascaris procyonis larva migrans in a puppy: a case report and update for the veterinarian. Rudmann DG, et al. **J Am Anim Hosp Assoc** 1996 Jan–Feb;32(1):73–6

PHYSIOLOGY

Settling rate and dispersal of sealworm eggs (Nematoda) determined using a revised protocol for myxozoan spores. McConnell CJ, et al. **J Parasitol** 1997 Apr;83(2):203–6

ASCARIS

Biliary ascariasis: a worm in the bag. Nyugen H, et al. **Aust N Z J Surg** 1997 Aug;67(8):574–5

CHEMISTRY

Structural analysis of neutral glycosphingolipids from Ascaris suum adults (Nematoda:Ascaridida). Lochnit G, et al. **Glycoconj J** 1997 Apr;14(3):389–99

ASABF, a novel cysteine-rich antibacterial peptide isolated from the nematode Ascaris suum. Purification, primary structure, and molecular cloning of cDNA. Kato Y, et al. **J Biol Chem** 1996 Nov 29;271(48):30493–8

Structural characteristics of the Ascaris allergen, ABA-1. McGibbon AM, et al. **Parasite** 1995 Mar;2(1):41–8

DRUG EFFECTS

Actions of neuroactive peptides and nitric oxide on Ascaris, Achatina and Helix tissues. Walker RJ, et al. **Acta Biol Hung** 1995;46(2–4):183–93

ISOLATION & PURIFICATION

[Occurrence of Parascaris equorum in foals and adult horses under different breeding conditions] Gawor JJ. **Wiad Parazytol** 1996;42(2):213–9 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Actions of neuroactive peptides and nitric oxide on Ascaris, Achatina and Helix tissues. Walker RJ, et al. **Acta Biol Hung** 1995;46(2–4):183–93

ASCARIS LUMBRICOIDES

Biliary ascariasis. Kubaska SM, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):492

Intraductal administration of albendazole for biliary ascariasis. van den Bogaerde JB, et al. **Am J Gastroenterol** 1997 Sep;92(9):1531–3

Sonographic evaluation of biliary ascariasis. Mani S, et al. **Australas Radiol** 1997 May;41(2):204–6

Intestinal obstruction caused by Ascaris lumbricoides. Akgun Y. **Dis Colon Rectum** 1996 Oct;39(10):1159–63

The whirlpool jet technique for removal of pancreatic duct ascaris. Sandouk F, et al. **Gastrointest Endosc** 1997 Aug; 46(2):180–2

The role of sonography in the early diagnosis of biliopancreatic Ascaris infestation. Larrubia JR, et al. **J Clin Gastroenterol** 1996 Jan;22(1):48–50

Intestinal ascariasis as a cause of bowel obstruction in two patients: sonographic diagnosis. Coşkun A, et al. **J Clin Ultrasound** 1996 Jul–Aug;24(6):326–8

Biliary ascariasis—a letter to the editor [letter; comment] Shuaib IL, et al. **Med J Malaysia** 1995 Sep;50(3):284. Comment on: Med J Malaysia 1995 Mar;50(1):118–9.

In vivo and in vitro studies on the sonographical detection of Ascaris lumbricoides. Hoffmann H, et al. **Pediatr Radiol** 1997 Mar;27(3):226–9

Ascariasis in the subdistrict of Cavacos, municipality of alterosa (MG), Brazil: effect of mass treatment with albendazole on the intensity of infection. Machado MT, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug; 38(4):265–71

Ascariasis and hookworm. Sarinas PS, et al. **Semin Respir Infect** 1997 Jun;12(2):130–7 (45 ref.)

Socioeconomic and behavioral factors affecting the prevalence of geohelminths in preschool children. de Silva NR, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar;27(1):36–42

Morbidity and mortality due to Ascaris-induced intestinal obstruction. de Silva NR, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):31–6

Surgical ascariasis in children in Kashmir. Pandit SK, et al. **Trop Doct** 1997 Jan;27(1):13–4

Morbidity and mortality due to ascariasis: re-estimation and sensitivity analysis of global numbers at risk. de Silva NR, et al. **Trop Med Int Health** 1997 Jun;2(6):519–28

Peripheral and nasal eosinophilia and serum total immunoglobulin E levels in children with ascariasis. Yazicioğlu M, et al. **Turk J Pediatr** 1996 Oct–Dec; 38(4):477–84

[Recurrent abdominal pain] Alsalameh S, et al. **Med Klin** 1997 Aug 15;92(8):471 **(Ger)**

[Sonographic imaging of Ascaris lumbricoides] Barzilai M, et al. **Harefuah** 1996 Oct;131(7–8):247–8, 295 (Eng. Abstr.) **(Heb)**

[Recurrent palpebral edema caused by ascaridiasis] Castellazzo R. **Minerva Oftalmol** 1967 Jul–Aug;9(4):146–9 (Eng. Abstr.) **(Ita)**

[A case of severe malnutrition due to Ascaris lumbricoides infestation in a boy] Castiglione N, et al. **Pediatr Med Chir** 1996 Nov–Dec;18(6):615–7 (8 ref.) (Eng. Abstr.) **(Ita)**

[Ecoepidemiology of Ascaris lumbricoides in an endemic area and its relation with blood groups] Morales GA, et al. **Acta Cient Venez** 1994;45(4):287–91 (Eng. Abstr.) **(Spa)**

ASCARIS LUMBRICOIDES

[New interpretation of the quantitative fecal examination in humans] Pino LA, et al. **Acta Cient Venez** 1994;45(4):292–5 (Eng. Abstr.) **(Spa)**

[Degree of aggregation of Ascaris lumbricoides according to age groups after a massive antihelmilthic intervention] Ruiz A, et al. **Salud Publica Mex** 1996 Jul–Aug; 38(4):249–56 (Eng. Abstr.) **(Spa)**

[Liver abscess caused by Ascaris lumbricoides. Memorandum about hepatic changes in adopted children from developing countries] Sandholm E. **Lakartidningen** 1997 Jul 9; 94(28–29):2553–4 **(Swe)**

GENETICS

Histone H4 mRNA from the nematode Ascaris lumbricoides is cis-spliced and polyadenylated. Wyler-Duda P, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):259–61

cut-1-like genes of Ascaris lumbricoides. Timinouni M, et al. **Gene** 1997 Jul 1;193(1):81–7

IMMUNOLOGY

Evaluation of IgG4 response in ascariasis by ELISA for serodiagnosis. Chatterjee BP, et al. **Trop Med Int Health** 1996 Oct;1(5):633–9

ISOLATION & PURIFICATION

CT findings in pediatric gastrointestinal ascariasis. Beitia AO, et al. **Comput Med Imaging Graph** 1997 Jan–Feb;21(1):47–9

Ascaris, people and pigs in a rural community of Jiangxi Province, China. Peng W, et al. **Parasitology** 1996 Dec;113 (Pt 6):545–57

Ascaris lumbricoides in the paranasal sinuses of a Jamaican adult. Naravane A, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):37

Ascaris lumbricoides appendicitis in the tropics. Singh PA, et al. **Trop Doct** 1997 Oct;27(4):241

Field evaluation of an improved Kato-Katz thick smear technique for quantitative determination of helminth eggs in faeces. Odongo-Aginya EI, et al. **Trop Med Parasitol** 1995 Dec;46(4):275–7

[Presence of Ascaris lumbricoides in the esophagus and stomach: an exceptional endoscopic observation (letter)] Tomás A, et al. **Gastroenterol Hepatol** 1997 Jun–Jul; 20(6):335 **(Spa)**

ASCARIS SUUM

Effects of local and systemic budesonide on allergen-induced airway reactions in the pig. Fornhem C, et al. **Br J Pharmacol** 1996 Jun;118(4):989–97

The effect of fasting on Ascaris suum and Oesophagostomum spp. in growing pigs. Petkevičius S, et al. **Int J Parasitol** 1997 Apr;27(4):431–7

Transmission dynamics of helminth parasites of pigs on continuous pasture: Ascaris suum and Trichuris suis. Roepstorff A, et al. **Int J Parasitol** 1997 May;27(5):563–72

Survival of model helminth eggs and larvae (Ascaris suum, Oesophagostomum sp.) in the ensilaging process. Jurič P, et al. **Vet Med (Praha)** 1997 Jun;42(6):165–9

A possible influence of diet composition on the establishment of nematodes in the pig. Bjørn H, et al. **Vet Parasitol** 1996 May;63(1–2):167–71

ANATOMY & HISTOLOGY

The pharynx of the nematode Ascaris suum: structure and function. Brownlee DJ, et al. **Acta Biol Hung** 1995; 46(2–4):195–204

CHEMISTRY

Structural analysis of neutral glycosphingolipids from Ascaris suum adults (Nematoda:Ascaridida). Lochnit G, et al. **Glycoconj J** 1997 Apr;14(3):389–99

Lophotoxin-insensitive nematode nicotinic acetylcholine receptors. Tornøe C, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2161–8

Structure of the ascarosides from Ascaris suum. Bartley JP, et al. **J Nat Prod** 1996 Oct;59(10):921–6

Repetitive peptide motifs in the cuticlin of Ascaris suum. Bisoffi M, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):55–64

cDNA cloning for mitochondrial cytochrome c and its adult-specific isoform from Ascaris suum. Takamiya S, et al. **Mol Biochem Parasitol** 1996 Feb–Mar;76(1–2):293–7

Molecular and functional properties of cytochrome c from adult Ascaris suum muscle. Takamiya S, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):61–70

Isolation and partial characterization of a fatty-acid-binding protein from Ascaris suum reproductive tissue. Timanova AM, et al. **Parasitol Res** 1997;83(5):518–21

DRUG EFFECTS

Characterization of subtypes of gamma-aminobutyric acid receptors in an Ascaris muscle preparation by binding assay and binding of PF1022A, a new anthelmintic, on the receptors. Chen W, et al. **Parasitol Res** 1996;82(2):97–101

[Effect of Hydrochloric acid on invasion of Ascaris suum; enzyme activity in the digestive system and serum of newborn piglets] Jablonowski Z, et al. **Wiad Parazytol** 1995; 41(4):413–9 (Eng. Abstr.) **(Pol)**

[The development of Ascaris suum eggs in the presence of moxidectin] Zółtowska K, et al. **Wiad Parazytol** 1996; 42(2):205–12 (Eng. Abstr.) **(Pol)**

[The effect of cydectin on the survival of second stage larvae and mature Ascaris suum cultured in vitro] Zółtowska K, et al. **Wiad Parazytol** 1996;42(3):319–26 (Eng. Abstr.) **(Pol)**

[Use of hydrated lime for disinfection of sewage sludge containing Salmonella typhimurium and Ascaris suum as model pathogens] Plachý P, et al. **Vet Med (Praha)** 1996 Aug;41(8):255–9 (Eng. Abstr.) **(Slo)**

ENZYMOLOGY

Expression of Ascaris suum malic enzyme in a mutant Escherichia coli allows production of succinic acid from glucose. Stols L, et al. **Appl Biochem Biotechnol** 1997 Spring;63–65:153–8

Structural and functional analysis of a glutathione S-transferase from Ascaris suum. Liebau E, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):659–66

Acetyl-CoA hydrolase activity and function in Ascaris suum muscle mitochondria. de Mata ZS, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Mar; 116(3):379–83

Localization of cytochrome oxidase and the 2-methyl branched-chain enoyl CoA reductase in muscle and hypodermis of Ascaris suum larvae and adults. Mei B, et al. **J Parasitol** 1997 Aug;83(4):760–3

Purification and characterization of gamma-glutamyl transpeptidase from Ascaris suum. Hussein AS, et al. **Mol Biochem Parasitol** 1996 Apr;77(1):41–7

Metabolism of AF1 (KNEFIRF-NH2) in the nematode, Ascaris suum, by aminopeptidase, endopeptidase and deamidase enzymes. Sajid M, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):159–68

Protein phosphotyrosine phosphatases in Ascaris suum muscle. Schmid B, et al. **Mol Biochem Parasitol** 1996 May; 77(2):183–92

Effect of haloallylamines on polyamine oxidase activity and spermine levels in Ascaris suum. Müller S, et al. **Parasitol Res** 1996;82(6):571–3

Inhibition of superoxide dismutase from Ascaris suum by benzimidazoles and synthesized pyrimidine and glycine derivatives. Sanchez-Moreno M, et al. **Pharmacology** 1996 Jan;52(1):61–8

Expression, purification, and characterization of the recombinant NAD-malic enzyme from Ascaris suum. Chooback L, et al. **Protein Expr Purif** 1997 Jun;10(1):51–4

GENETICS

Expression of Ascaris suum malic enzyme in a mutant Escherichia coli allows production of succinic acid from glucose. Stols L, et al. **Appl Biochem Biotechnol** 1997 Spring;63–65:153–8

The nucleotide sequence of 5S ribosomal RNA from the parasitic nematode Ascaris suum. Evolutionary relationships in nematodes. Szymański M, et al. **Biochim Biophys Acta** 1996 Sep 11;1308(3):251–5

Primary sequence of mitochondrial tRNA(Arg) of a nematode Ascaris suum: occurrence of unmodified adenosine at the first position of the anticodon. Watanabe Y, et al. **Biochim Biophys Acta** 1997 Feb 7;1350(2):119–22

GROWTH & DEVELOPMENT

The impact of diets varying in carbohydrates resistant to endogenous enzymes and lignin on populations of Ascaris suum and Oesophagostomum dentatum in pigs. Petkevičius S, et al. **Parasitology** 1997 Jun;114 (Pt 6):555–68

Growth and cuticular synthesis in Ascaris suum larvae during development from third to fourth stage in vitro. Fetterer RH. **Vet Parasitol** 1996 Oct 25;65(3–4):275–82

IMMUNOLOGY

Cyclosporine A inhibits airway reactivity and remodeling after chronic antigen challenge in cats. Padrid PA, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1812–8

Granulocyte function in the airways of allergen-challenged pigs: effects of inhaled and systemic budesonide. Fornhem C, et al. **Clin Exp Allergy** 1996 Dec;26(12):1436–48

Increase of eosinophilic cell population in bone marrow of rats by immunization with Ascaris suum antigen. Nittoh T, et al. **Immunol Invest** 1997 Jun;26(4):439–51

The effect of 5-lipoxygenase inhibition on Ascaris antigen (Ag)-induced responses in atopic monkeys. Turner CR, et al. **Inflamm Res** 1996 Jan;45(1):42–9

Case report: eosinophilic colitis with high antibody titre against Ascaris suum. Takeyama Y, et al. **J Gastroenterol Hepatol** 1997 Mar;12(3):204–6

Experimental granulomatous vasculitis induced by sensitization with Ascaris suum antigen in mice. Alwie ML, et al. **Pathol Int** 1995 Dec;45(12):914–24

Enhanced immunity to Hyalomma anatolicum anatolicum ticks in cross-bred (Bos indicus x Bos taurus) calves using ascaris extract immunomodulator with the tick salivary gland extract antigens. Sran HS, et al. **Vet Immunol Immunopathol** 1996 Jun 1;51(3–4):333–43

ISOLATION & PURIFICATION

False-positive Ascaris suum egg counts in pigs. Boes J, et al. **Int J Parasitol** 1997 Jul;27(7):833–8

Improved method for the recovery of Ascarus suum larvae from pig intestinal mucosa. Murrell KD, et al. **J Parasitol** 1997 Apr;83(2):321–4

METABOLISM

Heterogeneity of cholecystokinin/gastrin-like immunoreactivity in the nervous system of the nematode Ascaris suum. Sithigorngul P, et al. **J Comp Neurol** 1996 Jul 8;370(4):427–42

2.5 A resolution crystal structure of the motile major sperm protein (MSP) of Ascaris suum. Bullock TL, et al. **J Mol Biol** 1996 Oct 25;263(2):284–96

Cellular and subcellular localization of SALMFamide (S1)-like immunoreactivity within the central nervous system of the nematode Ascaris suum (Nematoda, Ascaroidea). Brownlee DJ, et al. **Parasitol Res** 1996; 82(2):149–56

PHYSIOLOGY

The pharynx of the nematode Ascaris suum: structure and function. Brownlee DJ, et al. **Acta Biol Hung** 1995; 46(2–4):195–204

The effects of the peptide KPNFIRFamide (PF4) on the somatic muscle cells of the parasitic nematode Ascaris suum. Holden-Dye L, et al. **Br J Pharmacol** 1997 Feb; 120(3):379–86

Effects of acetylcholine on a slow voltage-activated non-selective cation current mediated by non-nicotinic receptors on isolated Ascaris muscle bags. Martin RJ, et al. **Exp Physiol** 1996 Nov;81(6):909–25

Experimental transfer of Ascaris suum from donor pigs to helminth naive pigs. Jungersen G, et al. **J Parasitol** 1996 Oct;82(5):752–6

Ascaris suum: a revision of its early migratory path and implications for human ascariasis. Murrell KD, et al. **J Parasitol** 1997 Apr;83(2):255–60

A patch clamp study of a glutamatergic chloride channel on pharyngeal muscle of the nematode Ascaris suum. Adelsberger H, et al. **Neurosci Lett** 1997 Jul 25;230(3):183–6

Novel azole derivatives are antagonists at the inhibitory GABA receptor on the somatic muscle cells of the parasitic nematode Ascaris suum. Bascal Z, et al. **Parasitology** 1996 Feb;112 (Pt 2):253–9

The motornervous system of Ascaris: electrophysiology and anatomy of the neurons and their control by neuromodulators. Davis RE, et al. **Parasitology** 1996;113 Suppl:S97–117 (114 ref.)

Electrophysiology of Ascaris muscle and anti-nematodal drug action. Martin RJ, et al. **Parasitology** 1996;113 Suppl:S137–56 (76 ref.)

An electrophysiological preparation of Ascaris suum pharyngeal muscle reveals a glutamate-gated chloride channel sensitive to the avermectin analogue, milbemycin D. Martin RJ. **Parasitology** 1996 Feb;112 (Pt 2):247–52

Ascaris suum: molecular cloning of an intermediate filament. Bisoffi M, et al. **Trop Med Int Health** 1996 Oct;1(5):640–5

ASCAROIDEA see **ASCARIDOIDEA**

ASCHELMINTHES see **HELMINTHS**

ASCHOFF BODIES see **RHEUMATIC NODULE**

ASCITES

Adenovirus-mediated gene transfer of herpes simplex virus thymidine kinase in an ascites model of human breast cancer. Yee D, et al. **Hum Gene Ther** 1996 Jun 20; 7(10):1251–7

Effects of captopril on renal functions, renal and portal hemodynamics in patients with cirrhosis. Tsai YT, et al. **Proc Natl Sci Counc Repub China B** 1996 Apr;20(2):44–50

Serum/ascites albumin gradient: its value as a rational approach to the differential diagnosis of ascites. Akriviadis EA, et al. **Scand J Gastroenterol** 1996 Aug;31(8):814–7

[Ascites] Komarov FI, et al. **Klin Med (Mosk)** 1997;75(4):45–7 (2 ref.) **(Rus)**

BLOOD

The association between myxedematous ascites and extreme elevation of serum tumor markers [letter] Depczynski B, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4175

Changes in plasma endothelin-1 and Big endothelin-1 induced by transjugular intrahepatic portosystemic shunts in patients with cirrhosis and refractory ascites. Martinet JP, et al. **J Hepatol** 1996 Nov;25(5):700–6

CHEMICALLY INDUCED

A unique case of massive ascites before ovulation associated with gonadotropin therapy. Akman MA, et al. **Fertil Steril** 1996 Dec;66(6):1026–7

Inflammatory peritonitis with ascites after methylene blue dye chromopertubation during diagnostic laparoscopy. Nolan DG. **J Am Assoc Gynecol Laparosc** 1995 Aug; 2(4):483–5

COMPLICATIONS

Hemoperitoneum in patients with ascites. Akriviadis EA. **Am J Gastroenterol** 1997 Apr;92(4):567–75 (87 ref.)

Ovarian fibromatosis, ascites and omental fibrosis. Scurry J, et al. **Histopathology** 1996 Jan;28(1):81–4 (6 ref.)

Eosinophilic gastroenteritis with ileus and ascites. Miyamoto

T, et al. **Intern Med** 1996 Oct;35(10):779–82

Ascites in Nephrotic syndrome. Incidence, patients' characteristics, and complications. Ackerman Z. **J Clin Gastroenterol** 1996 Jan;22(1):31–4

Ascites and the acquired immunodeficiency syndrome. Report of 54 cases. Saab S, et al. **Medicine (Baltimore)** 1996 May;75(3):131–41 (76 ref.)

Ascites in a polycystic patient. Chauveau D, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):228–30

The patient with end-stage renal failure and ascites. Franz M, et al. **Nephrol Dial Transplant** 1997 May;12(5):1070–8 (58 ref.)

Successful maintenance CAPD in a diabetic patient with ascites and cavernous transformation of the portal vein. Macia M, et al. **Perit Dial Int** 1996 Sep–Oct;16(5):533–5

[Spontaneous ascites infections] Lata J. **Vnitr Lek** 1996 Nov; 42(11):789–91 (20 ref.) (Eng. Abstr.) **(Cze)**

[Therapy of spontaneous bacterial peritonitis] Gräter H. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):98–101 (Eng. Abstr.) **(Ger)**

[Bacteremia caused by Neisseria subflava and neutrocytic ascites in a female patient with hepatic cirrhosis (letter)] Len O, et al. **Enferm Infecc Microbiol Clin** 1996 May; 14(5):334–5 **(Spa)**

CONGENITAL

Fetal abuse: a cause of fetal ascites. Akduman EI, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1035–6

Cutis marmorata telangiectatica congenita associated with an elevated maternal serum human chorionic gonadotrophin level and transitory isolated fetal ascites. Chen CP, et al. **Br J Dermatol** 1997 Feb;136(2):267–71

Congenital nonchylous ascites due to intestinal malrotation. Easley DJ, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul; 23(1):86–8

Congenital bladder perforation and urinary ascites caused by posterior urethral valves: a case report. Sahdev S, et al. **J Perinatol** 1997 Mar–Apr;17(2):164–5

Case Records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 23–1997. A premature newborn infant with congenital ascites [clinical conference] **N Engl J Med** 1997 Jul 24;337(4):260–7

DIAGNOSIS

A 58-year-old man with shortness of breath, ascites, and leg edema [clinical conference] Kronzon I, et al. **Circulation** 1996 Sep 15;94(6):1483–8

Diagnostic paracentesis. A two-step approach. Sartori M, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):81–5

A 54-year-old stockbreeder with ascites. Bourantas KL, et al. **Lancet** 1997 Apr 5;349(9057):994

A simple bedside manoeuvre to detect ascites. Chongtham DS, et al. **Natl Med J India** 1997 Jan–Feb;10(1):13–4

Management of ascites. Paracentesis as a guide. Habeeb KS, et al. **Postgrad Med** 1997 Jan;101(1):191–2, 195–200 (15 ref.)

Spontaneous bacterial peritonitis in cirrhosis: enhancement of ascites on delayed MR imaging. Kanematsu M, et al. **Radiat Med** 1997 May–Jun;15(3):185–7

The exudate-transudate definition is dated [letter] Kyriacou E. **Scand J Gastroenterol** 1997 Jul;32(7):736

Giant omental cyst in children presenting as pseudoascites. Klin B, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):291–3

[Giant mesenteric cyst mimicking ascites] Zamir D, et al. **Harefuah** 1996 May 15;130(10):683–4, 727 (Eng. Abstr.) **(Heb)**

DRUG THERAPY

Intraperitoneal regional chemotherapy with mitroxantrone. Link KH, et al. **Cancer Treat Res** 1996;81:31–40

Case report: successful palliative treatment with intraperitoneal OK-432 injection for epithelioid haemangioendothelioma presenting with intractable ascites. Wei SC, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):39–43

Natriuretic response to the combination of atrial natriuretic peptide and terlipressin in patients with cirrhosis and refractory ascites. Gadano A, et al. **J Hepatol** 1997 Jun; 26(6):1229–34

Tumor necrosis factor effects on ascites formation in an experimental tumor model. Behammer W, et al. **J Interferon Cytokine Res** 1996 May;16(5):403–8

[Treatment of refractory ascites with clonidine and spironolactone (letter)] Lenaerts A, et al. **Gastroenterol Clin Biol** 1997;21(6–7):524–5 **(Fre)**

[Comparison between torasemide and furosemide in the treatment of ascites in cirrhotic patients] Marelli A, et al. **Minerva Med** 1997 Mar;88(3):109–15 (Eng. Abstr.) **(Ita)**

[A case of pancreatic pleural effusion and ascites treated successfully with conservative measures including octreotide and nafamostat mesilate] Miyasaka Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):937–41 **(Jpn)**

[Hyperaldosteronism, spironolactone and liver cirrhosis] Sort P, et al. **Gastroenterol Hepatol** 1997 Mar;20(3):151–9 (80 ref.) **(Spa)**

ENZYMOLOGY

Ascitic fluid adenosine deaminase insensitivity in detecting tuberculous peritonitis in the United States. Hillebrand DJ, et al. **Hepatology** 1996 Dec;24(6):1408–12

Increased nitric oxide synthase expression in arterial vessels of cirrhotic rats with ascites. Morales-Ruiz M, et al. **Hepatology** 1996 Dec;24(6):1481–6

ETIOLOGY

Ascites in a patient undergoing maintenance hemodialysis. Kes P, et al. **Acta Med Croatica** 1997;51(1):57–61

Ascites and malignant ovarian neoplasms [letter] Winter RD. **Am Fam Physician** 1997 Jun;55(8):2612

Case records of the Medical College of Virginia, Virginia Commonwealth University, clinicopathologic conference. Case presentation. A 38-year-old woman with new-onset ascites [clinical conference] Edmond M, et al. **Am J Med Sci** 1997 Mar;313(3):170–5

Fetal ascites associated with ABO incompatibility: case report and review of the literature. Stiller RJ, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1371–2

Internal pancreatic fistulae with serous effusions in chronic pancreatitis. Dhar P, et al. **Aust N Z J Surg** 1996 Sep; 66(9):608–11

Urinoma and urinary ascites secondary to calyceal perforation in neonatal posterior urethral valves. Ahmed S, et al. **Br J Urol** 1997 Jun;79(6):991–2

Malignant biliary obstruction complicated by ascites: closure of the transhepatic tract with cyanoacrylate glue after placement of an endoprosthesis. Cekirge S, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):228–31

Leiomyomatosis peritonealis disseminata (LPD) with acute ascites induced by gonadotropin-releasing hormone (GnRH) agonist: a case report. Tseng CW, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):352–7

Scintigraphic findings in cerebrospinal fluid ascites complicating a ventriculoperitoneal shunt. Phillips WE 2nd, et al. **Clin Nucl Med** 1996 Jul;21(7):586

A further case of eosinophilic gastroenteritis with ascites [letter; comment] Lerza P. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):407. Comment on: Eur J Gastroenterol Hepatol 1995 Jul;7(7):675–8.

Intra-uterine ascites associated with ductal plate malformation of the liver [letter] Rosgaard A, et al. **Eur J Pediatr** 1996 Nov;155(11):990–1

Low albumin gradient ascites complicating severe pseudomembranous colitis. Zuckerman E, et al. **Gastroenterology** 1997 Mar;112(3):991–4

Henoch-Schönlein purpura with hemorrhagic ascites and intestinal serositis. Santiago J, et al. **Gastrointest Endosc** 1996 Nov;44(5):624–5

Renal function after elective hepatic resection. Matsumata T, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):602–7

Impairment of renal function during moderate physical exercise in cirrhotic patients with ascites: relationship with the activity of neurohormonal systems. Saló J, et al. **Hepatology** 1997 Jun;25(6):1338–42

Massive ascites due to abdominal pregnancy. Ross JA, et al. **Hum Reprod** 1997 Feb;12(2):390–1

Hereditary angioedema with ascites [letter; comment] Laurent J, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):999. Comment on: J Allergy Clin Immunol 1995 Aug;96(2):259–61.

Endometriosis with massive bloody ascites. Mejia EM, et al. **J Am Board Fam Pract** 1997 Jan–Feb;10(1):59–61

Plasmacytic ascites. Wahid B, et al. **J Assoc Physicians India** 1996 Mar;44(3):224

Therapeutic effects of diuretics and paracentesis on lung function in patients with non-alcoholic cirrhosis and tense ascites. Chang SC, et al. **J Hepatol** 1997 Apr;26(4):833–8

Transjugular intrahepatic portosystemic shunts: comparison with paracentesis in patients with cirrhosis and refractory ascites: a randomized trial. French Group of Clinicians and a Group of Biologists. Lebrec D, et al. **J Hepatol** 1996 Aug;25(2):135–44

Congenital nonchylous ascites due to intestinal malrotation. Easley DJ, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul; 23(1):86–8

Percutaneous needle biopsy in exudative ascites. Shah LA, et al. **JPMA J Pak Med Assoc** 1996 Nov;46(11):260–1

Optic chiasm glioma, electrolyte abnormalities, nonobstructive hydrocephalus and ascites. Shuper A, et al. **Med Pediatr Oncol** 1997 Jul;29(1):33–5

Fluid retention and intravenous hydration in the dying [letter] Musgrave CF, et al. **Palliat Med** 1996 Jan;10(1):53

Neonatal urinary ascites due to unilateral vesicoureteric junction obstruction. Chun KE, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):455–7

The effects of chronic administration of indomethacin and misoprostol on renal function in cirrhotic patients with and without ascites. Hsia HC, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1194–9

Ascites associated with antibiotic-associated pseudomembranous colitis [see comments] Jafri SF, et al. **South Med J** 1996 Oct;89(10):1014–7 (18 ref.). Comment in: South Med J 1997 Apr;90(4):460.

Ascites associated with antibiotic-associated pseudomembranous colitis [letter; comment] Parikh VA, et al. **South Med J** 1997 Apr;90(4):460. Comment on: South Med J 1996 Oct;89(10):1014–7.

A rare right hepatic duct anatomical variant discovered after laparoscopic bile duct transection. Seibert D, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):61–4

Pancreatic ascites [editorial] Sharma AK, et al. **Trop Gastroenterol** 1995 Oct–Dec;16(4):1–3

A case of intraperitoneal testicular cancer with ascites. Hibi H, et al. **Urol Int** 1996;57(4):259–61

[Pancreatic involvement, ascites and diarrhea in idiopathic hypereosinophilic syndrome] Bellaiche G, et al. **Gastroenterol Clin Biol** 1997;21(6–7):519–22 (49 ref.) (Eng. Abstr.) **(Fre)**

[Ascites disclosing Crohn disease (letter)] Verger P, et al. **Presse Med** 1996 Jul 6–13;25(24):1126 **(Fre)**

[Lymphangiomatosis as the cause of therapy refractory chylothorax and ascites] Hemmerling A, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Sep; 31(7):434–7 (Eng. Abstr.) **(Ger)**

[Rapidly progressive ascites (clinical conference)] Hadengue A, et al. **Schweiz Med Wochenschr** 1996 Nov 2; 126(44):1891–7 (Eng. Abstr.) **(Ger)**

[Diarrhea, massive ascites, and portal hypertension: rare case of a splenic arterio-venous fistula (letter)] Paquet KP. **Z Gastroenterol** 1996 Nov;34(11):XXI **(Ger)**

[A case of encapsulating peritonitis associated with pancreatic ascites induced by carcinoma of the pancreas] Marusawa H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec; 93(12):932–6 **(Jpn)**

[A case of ascites in the course of acute pancreatitis] Jarosz M, et al. **Pol Arch Med Wewn** 1997 Jan;97(1):56–61 (Eng. Abstr.) **(Pol)**

[Ascitic peritonitis] Didenko VM, et al. **Vestn Khir Im I I Grek** 1996;155(2):111–3 (35 ref.) **(Rus)**

[Diagnostic efficacy of albumin gradient in different causes of ascitis] Laudanno OM, et al. **Acta Gastroenterol Latinoam** 1995;25(5):285–90 (Eng. Abstr.) **(Spa)**

[Sero-ascitic gradient of albumin: usefulness and diagnostic limitations] Alba D, et al. **An Med Interna** 1995 Aug; 12(8):404–7 (51 ref.) (Eng. Abstr.) **(Spa)**

[Benign peritoneal multicystic mesothelioma as a cause of ascites (letter)] Moreira VF, et al. **Rev Clin Esp** 1997 May; 197(5):384–5 **(Spa)**

[Value of laparoscopy in ascites of undetermined origin] Porcel A, et al. **Rev Esp Enferm Dig** 1996 Jul;88(7):485–9 (Eng. Abstr.) **(Spa)**

[New concepts in the pathology and management of ascites in the cirrhotic patient] Tagle M. **Rev Gastroenterol Peru** 1996 May–Aug;16(2):148–52 (30 ref.) **(Spa)**

GENETICS

Discordance in p53 mutations when comparing ascites and solid tumors from patients with serous ovarian cancer. Provencher DM, et al. **Tumour Biol** 1997;18(3):167–74

IMMUNOLOGY

In vivo antitumor effects of murine interferon-gamma-inducing factor/interleukin-18 in mice bearing syngeneic Meth A sarcoma malignant ascites. Micallef MJ, et al. **Cancer Immunol Immunother** 1997 Jan; 43(6):361–7

Differences in the recognition of tumor-specific CD8+ T cells derived from solid tumor, metastatic lymph nodes and ascites in patients with gastric cancer. Kono K, et al. **Int J Cancer** 1997 Jun 11;71(6):978–81

Rapid purification and monitoring of immunoglobulin M from ascites by perfusion ion-exchange chromatography. McCarthy E, et al. **J Chromatogr A** 1996 Aug 30; 743(1):163–70

Clinical significance of complements in ascitic diseases: elevated complement levels disapproving the liver disease origin. Wang SS, et al. **Proc Natl Sci Counc Repub China B** 1996 Apr;20(2):51–7

Evidence for an unknown component of pancreatic ascites that induces adult respiratory distress syndrome through an interleukin-1 and tumor necrosis factor-dependent mechanism. Denham W, et al. **Surgery** 1997 Aug; 122(2):295–301; discussion 301–2

METABOLISM

Increased concentrations of neopterin in plasma, ascites and ovarian cyst fluid in malignant tumours compared with benign ovarian tumours. Haeger M, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3189–92

Modification of the erythrocyte surface in rats bearing Yoshida ascites sarcoma is brought about by a tumour variant of alpha2-macroglobulin. Sanjay A, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):379–84

The significance of urokinase- type plasminogen activator, its inhibitors, and its receptor in ascites of patients with epithelial ovarian cancer. Chambers SK, et al. **Cancer** 1995 Apr 1;75(7):1627–33

Pharmacokinetics of amifostine and its metabolites in the plasma and ascites of a cancer patient. Korst AE, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):162–6

Purification and characterization of a DNA binding protein in a nuclear scaffold fraction from rat ascites hepatoma cells. Hibino Y, et al. **Carcinogenesis** 1997 Apr;18(4):707–13

Ascitic pseudouridine discriminates between hepatocarcinoma-derived ascites and cirrhotic ascites. Castaldo G, et al. **Clin Chem** 1996 Nov;42(11):1843–6

Inhibition of HSP47 during the transition from solid to ascitic form of Sarcoma 180 in vivo. Shirakami T, et al. **In Vivo** 1995 Sep–Oct;9(5):509–12

Pharmacokinetics and pharmacodynamics of torasemide and furosemide in patients with diuretic resistant ascites. Gentilini P, et al. **J Hepatol** 1996 Oct;25(4):481–90

Pharmacokinetics of Dextran-70 in patients with cirrhosis and ascites undergoing therapeutic paracentesis. Terg R, et al. **J Hepatol** 1996 Sep;25(3):329-33

Cardiac modifications occurring in the ascitic rat with biliary cirrhosis are nitric oxide related. van Obbergh L, et al. **J Hepatol** 1996 Jun;24(6):747-52

Ascites with a raised CA 125. D'Souza DJ, et al. **J R Soc Med** 1997 Aug;90(8):448-9

Serum-ascitic fluid albumin gradient, portal hypertension, and ascites [letter; comment] Rubin E. **Mayo Clin Proc** 1997 May;72(5):487. Comment on: Mayo Clin Proc 1996 Sep;71(9):874-81.

PATHOLOGY

Cytologic study of ascites and the endometrium in ovarian carcinoma. Clinical significance. Hirasawa T, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1451-5

Cytology of pleural, peritoneal and pericardial fluids in children. A 40-year summary. Wong JW, et al. **Acta Cytol** 1997 Mar-Apr;41(2):467-73 (13 ref.)

Interphase fluorescence in situ hybridization improves the detection of malignant cells in effusions from breast cancer patients. Zojer N, et al. **Br J Cancer** 1997;75(3):403-7

Excessive formation of basement membrane substance in clear-cell carcinoma of the ovary: diagnostic value of the "raspberry body" in ascites cytology. Ito H, et al. **Diagn Cytopathol** 1997 Jun;16(6):500-4

Ascitic growth of a T cell lymphoma in mice alters the humoral and cellular immune response to exogenous antigens. Parajuli P, et al. **Tumour Biol** 1997;18(2):104-12

PHYSIOPATHOLOGY

Physiopathology of ascites in portal hypertension. Michielsen PP. **Acta Gastroenterol Belg** 1996 Jul-Sep;59(3):191-7 (43 ref.)

Discrepancy between solute transport rate and drain volume in CAPD patients with ascites. Yoon SN, et al. **Adv Perit Dial** 1996;12:39-42

Cardiovascular and renal effects of low-dose atrial natriuretic peptide in compensated cirrhosis. La Villa G, et al. **Am J Gastroenterol** 1997 May;92(5):852-7

Respiratory mechanics in patients with tense cirrhotic ascites. Duranti R, et al. **Eur Respir J** 1997 Jul;10(7):1622-30

Tyrosine kinase inhibition ameliorates the hyperdynamic state and decreases nitric oxide production in cirrhotic rats with portal hypertension and ascites. López-Talavera JC, et al. **J Clin Invest** 1997 Aug 1;100(3):664-70

Review: the controversy over the pathophysiology of ascites formation in cirrhosis. Wong F, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):437-44 (84 ref.)

Cerebral autoregulation in patients with cirrhosis and ascites. A transcranial Doppler study. Lagi A, et al. **J Hepatol** 1997 Jul;27(1):114-20

Pathogenesis and treatment of ascites [editorial] Rodés J. **J Intern Med** 1996 Sep;240(3):111-4

Sequential hemodynamic changes for large volume paracentesis in post-hepatitic cirrhotic patients with massive ascites. Wang SS, et al. **Proc Natl Sci Counc Repub China B** 1996 Oct;20(4):117-22

Respiratory muscle length and strength in patients with chronic abdominal distension. Flintrop M, et al. **Respiration** 1997;64(1):66-72

[Natural course and physiopathology of ascites in the cirrhotic patient] Bernardi M, et al. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:30S-38S (113 ref.) (Eng. Abstr.) **(Ita)**

PREVENTION & CONTROL

Treatment and prevention of malignant ascites associated with disseminated intraperitoneal malignancies by aggressive combined-modality therapy. Loggie BW, et al. **Am Surg** 1997 Feb;63(2):137-43

RADIONUCLIDE IMAGING

Scintigraphic findings in cerebrospinal fluid ascites complicating a ventriculoperitoneal shunt. Phillips WE 2nd, et al. **Clin Nucl Med** 1996 Jul;21(7):586

SURGERY

TIPS for refractory ascites: neither hemlock nor panacea. The Montreal experience and review of the literature. Martinet JP, et al. **Acta Gastroenterol Belg** 1996 Jul-Sep; 59(3):202-6 (68 ref.)

Clinical response after transjugular intrahepatic portosystemic stent shunt insertion for refractory ascites in cirrhosis. Forrest EH, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):801-6

Budd-Chiari syndrome: intractable ascites managed by a trans-hepatic portacaval shunt. Nicoll A, et al. **Australas Radiol** 1997 May;41(2):169-72

Treatment of refractory ascites using transjugular intrahepatic portosystemic shunt (TIPS): a caution. Martinet JP, et al. **Dig Dis Sci** 1997 Jan;42(1):161-6

Mechanisms of changes in renal handling of sodium following transjugular intrahepatic portal systemic stent-shunt (TIPSS). Jalan R, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1111-6

Surgical treatment of pancreatic ascites and pancreatic pleural effusions. da Cunha JE, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):748-51

Experimental, clinical, and metabolic results of side-to-side portacaval shunt for intractable cirrhotic ascites [see comments] Orloff MJ, et al. **J Am Coll Surg** 1997 Jun; 184(6):557-70. Comment in: J Am Coll Surg 1997 Jun;184(6):650-1.

Portacaval shunts for ascites: another perspective [editorial; comment] Rikkers LF. **J Am Coll Surg** 1997 Jun; 184(6):650-1. Comment on: J Am Coll Surg 1997 Jun;184(6):557-70.

TIPS and refractory ascites. Lessons from the recent history of ascites therapy [editorial] Arroyo V, et al. **J Hepatol** 1996 Aug;25(2):221-3 (24 ref.)

Transjugular intrahepatic portosystemic shunts: comparison with paracentesis in patients with cirrhosis and refractory ascites: a randomized trial. French Group of Clinicians and a Group of Biologists. Lebrec D, et al. **J Hepatol** 1996 Aug;25(2):135-44

Laparoscopic maneuvers in the presence of ascites. Greene FL. **J Surg Oncol** 1997 Jun;65(2):141-2

Peritoneovenous shunting for malignant ascites. Wickremesekera SK, et al. **N Z Med J** 1997 Feb 14; 110(1037):33-5

Refractory ascites: midterm results of treatment with a transjugular intrahepatic portosystemic shunt. Nazarian GK, et al. **Radiology** 1997 Oct;205(1):173-80

Hemodynamic and metabolic effects of transjugular intrahepatic portosystemic shunt (TIPS) during anesthesia for orthotopic liver transplantation. Antonini M, et al. **Transpl Int** 1996;9(4):403-7 (9 ref.)

Transjugular intrahepatic portosystemic shunt and liver transplantation. Lerut JP, et al. **Transpl Int** 1996;9(4):370-5

Peritoneal venous shunting for the treatment of lymphatic ascites following retroperitoneal lymph node dissection. See WA, et al. **Urology** 1996 Nov;48(5):783-5

[Early complications and long-term results of the LeVeen peritoneo-venous shunt in the treatment of refractory ascites] Arciero G, et al. **Minerva Chir** 1996 Nov; 51(11):897-901 (Eng. Abstr.) **(Ita)**

[The surgical treatment of diuretic-resistant ascites in liver cirrhosis] Khokhlov AV. **Vestn Khir Im I I Grek** 1996; 155(4):107-9 (4 ref.) **(Rus)**

[New concepts in the pathology and management of ascites in the cirrhotic patient] Tagle M. **Rev Gastroenterol Peru** 1996 May-Aug;16(2):148-52 (30 ref.) **(Spa)**

THERAPY

Ascites: medical therapy and paracentesis. Fevery J, et al. **Acta Gastroenterol Belg** 1996 Jul-Sep;59(3):198-201

Cardiovascular, renal, and neurohumoral responses to single large-volume paracentesis in patients with cirrhosis and diuretic-resistant ascites [see comments] Peltekian KM, et al. **Am J Gastroenterol** 1997 Mar;92(3):394-9. Comment in: Am J Gastroenterol 1997 Mar;92(3):371-3.

Patient selection is important in studying the impact of large-volume paracentesis on intravascular volume [editorial; comment] Runyon BA. **Am J Gastroenterol** 1997 Mar;92(3):371-3. Comment on: Am J Gastroenterol 1997 Mar;92(3):394-9.

Concentrated ascitic fluid reinfusion in cirrhotic patients: a simplified method [published erratum appears in Am J Kidney Dis 1997 May;29(5):815] Albalate M, et al. **Am J Kidney Dis** 1997 Mar;29(3):392-8

Hemodialysis alternative with ascites ultrafiltration for an end-stage renal failure patient associated with tense ascites secondary to decompensated liver cirrhosis. Hwang JC, et al. **Am J Kidney Dis** 1996 Dec;28(6):899-903

Treatment of ascites: old and new remedies. Inturri P, et al. **Dig Dis** 1996 May-Jun;14(3):145-56 (75 ref.)

Reinfusion of concentrated ascitic fluid versus total paracentesis. A randomized prospective trial. Graziotto A, et al. **Dig Dis Sci** 1997 Aug;42(8):1708-14

Vascular targeting of solid and ascites tumours with antibodies to vascular endothelial growth factor. Ke-Lin, et al. **Eur J Cancer** 1996 Dec;32A(14):2467-73

A randomized trial of paracentesis plus intraperitoneal tumor necrosis factor-alpha versus paracentesis alone in patients with symptomatic ascites from recurrent ovarian carcinoma. Hirte HW, et al. **Gynecol Oncol** 1997 Jan; 64(1):80-7

Transjugular intrahepatic portosystemic shunt for refractory ascites: shunt diameter-optimizing risks and benefits [letter; comment] Somberg KA. **Hepatology** 1997 Jan;25(1):254-5 . Comment on: Hepatology 1995 Jul;22(1):358-64.

Abdominal ascites [editorial] Cross KS. **Ir Med J** 1997 Apr-May;90(3):91

A new treatment of refractory ascites: ascitoapheresis [letter] Stefanutti C, et al. **J Clin Apheresis** 1996;11(1):46-7

TIPS and refractory ascites. Lessons from the recent history of ascites therapy [editorial] Arroyo V, et al. **J Hepatol** 1996 Aug;25(2):221-3 (24 ref.)

Diuretic requirements after therapeutic paracentesis in non-azotemic patients with cirrhosis. A randomized double-blind trial of spironolactone versus placebo [published erratum appears in J Hepatol 1997 Jun;26(6):1430] Fernández-Esparrach G, et al. **J Hepatol** 1997 Mar;26(3):614-20

Pharmacokinetics of Dextran-70 in patients with cirrhosis and ascites undergoing therapeutic paracentesis. Terg R, et al. **J Hepatol** 1996 Sep;25(3):329-33

Management of ascites. A review. Watanabe A. **J Med** 1997; 28(1-2):21-30 (17 ref.)

Outcome of non-immune hydrops fetalis and a fetus with hydrothorax and/or ascites: with some trials of intrauterine treatment. Negishi H, et al. **J Perinat Med** 1997;25(1):71-7

Application of gastrointestinal suture anchor to prevent pericatheter fluid leakage in percutaneous biliary drainage. Hayashi N, et al. **J Vasc Interv Radiol** 1996 Jul-Aug; 7(4):555-6

Treatment of hemodialysis ascites with continuous ambulatory peritoneal dialysis [letter] Duranay M, et al. **Nephron** 1996;73(2):327-8

[Transjugular intrahepatic portosystemic shunt in the treatment of refractory ascites in 21 patients] Vandistel G, et al. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2455-8 (Eng. Abstr.) **(Dut)**

[Prevention and therapy of complications of liver cirrhosis: ascites, encephalopathy and malnutrition] Köllinger M, et al. **Med Klin** 1996 Feb 15;91(2):89-102 (143 ref.) **(Ger)**

[Current ascites therapy] Ochs A. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):94-7 (Eng. Abstr.) **(Ger)**

[Experimental methods in hepatology. Guidelines of the German Work Group for Study of the Liver. Therapy of ascites in liver diseases. German Work Group for Study of the Liver] Gerbes AL. **Z Gastroenterol** 1997 Apr; 35(4):295-300 (47 ref.) (Eng. Abstr.) **(Ger)**

[Embolization of the hepatic artery in the treatment of liver cirrhosis complicated by resistant ascites] Bulanov KI, et al. **Klin Khir** 1996;(9):19-22 **(Rus)**

[Treatment patients with ascites] Podymova SD. **Klin Med (Mosk)** 1997;75(4):47-8 (1 ref.) **(Rus)**

ULTRASONOGRAPHY

Abdomino-amniotic shunting in isolated fetal ascites with polyhydramnios. Fung TY, et al. **Acta Obstet Gynecol Scand** 1997 Aug;76(7):706-7

Fetal functional pulmonary atresia with ascites resolving spontaneously before birth. A case report. Włoch A, et al. **Fetal Diagn Ther** 1997 Jan-Feb;12(1):43-5

Ultrasonographic determination of ascitic volume. Inadomi J, et al. **Hepatology** 1996 Sep;24(3):549-51

Ultrasound demonstration of gallbladder wall thickening as a method to differentiate cirrhotic ascites from other ascites [see comments] Brogna A, et al. **Invest Radiol** 1996 Feb; 31(2):80-3. Comment in: Invest Radiol 1996 Sep;31(9):599.

Ultrasound demonstration of gallbladder wall thickening as a method to differentiate cirrhotic ascites from other ascites [letter; comment] Marti-Bonmati L. **Invest Radiol** 1996 Sep; 31(9):599. Comment on: Invest Radiol 1996 Feb;31(2):80-3.

VETERINARY

The effect of photoperiod and nutrition on ascites incidence in broilers. Lott BD, et al. **Avian Dis** 1996 Oct-Dec; 40(4):788-91

Experimental production of ascites in broiler chickens using infectious bronchitis virus and Escherichia coli. Tottori J, et al. **Avian Dis** 1997 Jan-Mar;41(1):214-20

Effect of dietary flax oil and hypobaric hypoxia on right ventricular hypertrophy and ascites in broiler chickens. Bond JM, et al. **Br Poult Sci** 1996 Sep;37(4):731-41

Different characteristics in chick embryos of two broiler lines differing in susceptibility to ascites. Dewil E, et al. **Br Poult Sci** 1996 Dec;37(5):1003-13

Protective effect of ubiquinone (coenzyme Q9) on ascites in broiler chickens. Nakamura K, et al. **Br Poult Sci** 1996 Mar;37(1):189-95

What is your diagnosis? Ruptured bladder with uroperitoneum. Worth LT, et al. **J Am Vet Med Assoc** 1997 Jun 1;210(11):1601-2

Hepatic and cardiac oxidative stress and other metabolic changes in broilers with the ascites syndrome. Díaz-Cruz A, et al. **Poult Sci** 1996 Jul;75(7):900-3

Evaluation of logistic versus linear regression models for predicting pulmonary hypertension syndrome (ascites) using cold exposure or pulmonary artery clamp models in broilers. Kirby YK, et al. **Poult Sci** 1997 Feb;76(2):392-9

Artificial neural network prediction of ascites in broilers. Roush WB, et al. **Poult Sci** 1996 Dec;75(12):1479-87

The effect of strain of broiler on physiological parameters associated with the ascites syndrome. Silversides FG, et al. **Poult Sci** 1997 May;76(5):663-7

Chronic unilateral occlusion of an extrapulmonary primary bronchus induces pulmonary hypertension syndrome (ascites) in male and female broilers. Wideman RF Jr, et al. **Poult Sci** 1997 Feb;76(2):400-4

Evidence of ultracytochemical mitochondria-derived hydrogen peroxide activity in myocardial cells from broiler chickens with an ascites syndrome. Maxwell MH, et al. **Res Vet Sci** 1996 Jul;61(1):7-12

VIROLOGY

Distinct composition of viral quasispecies between ascites and serum samples from patients with late stage chronic hepatitis C. Yeh CT, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):524-9

ASCITES, CHYLOUS see **CHYLOPERITONEUM**

ASCITES, GELATINOUS see **PSEUDOMYXOMA PERITONEI**

ASCITES SHUNT, PERITONEOVENOUS see **PERITONEOVENOUS SHUNT**

ASCITIC FLUID

see related
PERITONEAL LAVAGE

Concentrated ascitic fluid reinfusion in cirrhotic patients: a simplified method [published erratum appears in Am J Kidney Dis 1997 May;29(5):815] Albalate M, et al. **Am J Kidney Dis** 1997 Mar;29(3):392–8

Effect of peritoneal fluid on sperm motility parameters in women with endometriosis. Chen CD, et al. **Arch Androl** 1997 Jan–Feb;38(1):49–55

Acid–base balance in plasmatic, pericardial and peritoneal fluids in 2 species of amphibians. Dejours P, et al. **C R Acad Sci III** 1996 Aug;319(8):693–7

Reinfusion of concentrated ascitic fluid versus total paracentesis. A randomized prospective trial. Graziotto A, et al. **Dig Dis Sci** 1997 Aug;42(8):1708–14

In vitro culture of endometrial stromal and gland cells as a model for endometriosis: the effect of peritoneal fluid on proliferation. Overton CE, et al. **Fertil Steril** 1997 Jan; 67(1):51–6

Ascitic tapping by the vaginal route. Sheth SS, et al. **Int J Gynaecol Obstet** 1997 Jan;56(1):65–6

Posttraumatic peritoneal fluid: is it a reliable indicator of intraabdominal injury in children? [letter; comment] Akgür FM, et al. **J Pediatr Surg** 1996 Sep;31(9):1332. Comment on: J Pediatr Surg 1995 Dec;30(12):1644–8.

Effect of the environment on fetal skin wound healing. Sancho MA, et al. **J Pediatr Surg** 1997 May;32(5):663–6

Management of ascites. Paracentesis as a guide. Habeeb KS, et al. **Postgrad Med** 1997 Jan;101(1):191–2, 195–200 (15 ref.)

CHEMISTRY

Tumor markers in the diagnosis of malignant serous effusions. Cascinu S, et al. **Am J Clin Oncol** 1997 Jun;20(3):247–50

Association of protease activity against IGFBP-3 with peritoneal fluid mitogens: possible implications for the ectopic growth of endometrial cells in women with endometriosis. Koutsilieris M, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1239–44

Identification of a meiotically expressed carbohydrate antigen in ovarian carcinoma: II. Association with proteins in tumors and peritoneal fluid. Skinner SM, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):907–11

Evaluation of tumor-associated antigens and total sialic acid levels in effusions of malignant and benign origin. Yenisey C, et al. **Biochem Soc Trans** 1996 May;24(2):301S

Chemotaxis of macrophages by a peritoneal fluid protein in women with endometriosis. Weil SJ, et al. **Fertil Steril** 1997 May;67(5):865–9

Early detection of anastomotic leaks after colorectal surgery by measuring endotoxin in the drainage fluid. Junger W, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1523–9

Levels of human hepatocyte growth factor (hHGF) in peritoneal fluid after partial hepatectomy. Miyata K, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1594–600

Expression of the 60 kDa heat shock protein in peritoneal fluids from women with endometriosis: implications for endometriosis-associated infertility. Kligman I, et al. **Hum Reprod** 1996 Dec;11(12):2736–8

Diagnostic paracentesis. A two-step approach. Sartori M, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):81–5

Features of the Renin-angiotensin system in ascites and pleural effusion during severe ovarian hyperstimulation syndrome. Delbaere A, et al. **J Assist Reprod Genet** 1997 May;14(5):241–4

Determination of hydroxyurea in plasma and peritoneal fluid by high-performance liquid chromatography using electrochemical detection. Pujari MP, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):185–91

Effusion cytology of hepatocellular carcinoma with in situ hybridisation for human albumin. Stephen MR, et al. **J Clin Pathol** 1997 May;50(5):442–4

Alpha feto-protein and albumin in ascitic fluid in hepatocellular carcinoma patients. Sadek A, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):455–64

Peritoneal dialysis in a 6-weeks old preterm infant with severe theophylline intoxication. Colonna F, et al. **Minerva Pediatr** 1996 Sep;48(9):383–5

Nature's motility blockers: controlling human sperm motility machinery from the outside. Chemical characterization of a peritoneal fluid lipid that induces sperm immobilization. Keller F, et al. **Mol Hum Reprod** 1997 Mar;3(3):241–8

Interference of creatinine measurement in CAPD fluid is dependent on glucose and creatinine concentrations. Mak TW, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):184–6

Growth-regulated alpha expression in the peritoneal environment with endometriosis. Oral E, et al. **Obstet Gynecol** 1996 Dec;88(6):1050–6

Peritoneal growth factors and endometriosis. Oral E, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):257–67 (99 ref.)

[Phthalic acid esters in the peritoneal cavity of patients treated with continuous ambulatory peritoneal dialysis] Sevela K, et al. **Vnitr Lek** 1996 Jun;42(6):404–7 (Eng. Abstr.) **(Cze)**

[Prostaglandins E in the primary tumor, metastases, and ascitic fluid of patients with ovarian cancer] Kushlinskii NE, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):83–6 **(Rus)**

[Diagnostic efficacy of albumin gradient in different causes of ascitis] Laudanno OM, et al. **Acta Gastroenterol Latinoam** 1995;25(5):285–90 (Eng. Abstr.) **(Spa)**

[Sero-ascitic gradient of albumin: usefulness and diagnostic limitations] Alba D, et al. **An Med Interna** 1995 Aug; 12(8):404–7 (51 ref.) (Eng. Abstr.) **(Spa)**

[Influence of the nutritional status on the characteristics of the ascitic fluid in alcoholic hepatic cirrhosis] Ledesma Castaña F, et al. **Nutr Hosp** 1996 Jul–Aug;11(4):238–44 (Eng. Abstr.) **(Spa)**

[Echographic parameters in the evaluation of the degree of portal hypertension] Torres E, et al. **Rev Gastroenterol Peru** 1996 May–Aug;16(2):125–32 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

[Bialbunemia and pancreatic ascites (letter)] Le Gall P, et al. **Gastroenterol Clin Biol** 1997;21(6–7):531–4 **(Fre)**

CYTOLOGY

Pigment-laden macrophages in ascitic fluid associated with melanosis coli [letter] Allen EA, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1249–51

DNA ploidy and proliferating cell nuclear antigen image analysis of peritoneal and pleural effusions. A possible diagnostic role. el-Habashi AH, et al. **Acta Cytol** 1997 May–Jun;41(3):636–48

Value of Gram's stain of cell block material from peritoneal fluid in bacterial peritonitis. Renshaw AA, et al. **Acta Cytol** 1997 May–Jun;41(3):755–8

Cytologic diagnosis of peritoneal fluids. Applicability to the laparoscopic diagnosis of endometriosis. Stowell SB, et al. **Acta Cytol** 1997 May–Jun;41(3):817–22

Isolation and characterization of myeloperoxidase from leukocytes of rat peritoneal fluid. Morozov VI, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):623–30

Appearance of "collagen balls" in ascitic fluid cytology with abdominal cocoon (encapsulating peritonitis) [letter; comment] Kobayashi TK, et al. **Diagn Cytopathol** 1997 May;16(5):469–70. Comment on: Diagn Cytopathol 1995 Aug;13(2):124–7.

Intraperitoneal cell movement during abdominal carbon dioxide insufflation and laparoscopy. An in vivo model. Hewett PJ, et al. **Dis Colon Rectum** 1996 Oct;39(10 Suppl):S62–6

Inhibitory effect of tea polyphenols on histamine and leukotriene B4 release from rat peritoneal exudate cells. Matsuo N, et al. **In Vitro Cell Dev Biol Anim** 1996 Jun; 32(6):340–4

nm23 expression in tissue sections and tumor effusion cells of ovarian neoplasms. Harłozińska A, et al. **Int J Cancer** 1996 Oct 21;69(5):415–9

Diagnostic paracentesis. A two-step approach. Sartori M, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):81–5

Effects of fatty acids on accumulation and secretion of histamine in RBL-2H3 cells and leukotriene release from peritoneal exudate cells isolated from Wistar rats. Yamada K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Aug; 42(4):301–11

Long-term continuous ambulatory peritoneal dialysis reduces the expression of CD11b, CD14, CD16, and CD64 on peritoneal macrophages. Cárcamo C, et al. **Perit Dial Int** 1996 Nov–Dec;16(6):582–9

[Tumor cells in peritoneal irrigation fluid in conventional and laparoscopic surgery for colorectal carcinoma] Buchmann P, et al. **Swiss Surg** 1996;Suppl 4:45–9 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Comparison of conventional microscopy and digitized imaging for diagnosis in serous effusions. da Silva VD, et al. **Anal Quant Cytol Histol** 1997 Jun;19(3):202–6

The value of adenosine deaminase (ADA) determination in the diagnosis of tuberculous ascites. Brant CQ, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep–Oct;37(5):449–53

DRUG THERAPY

Therapeutic effect of the matrix metalloproteinase inhibitor, batimastat, in a human colorectal cancer ascites model. Watson SA, et al. **Br J Cancer** 1996 Nov;74(9):1354–8

ENZYMOLOGY

Potent bactericidal activity towards gram-positive bacteria of mammalian group II phospholipase A2 mobilized in inflammatory fluids. Madsen LM, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:250–2

Isolation and characterization of myeloperoxidase from leukocytes of rat peritoneal fluid. Morozov VI, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):623–30

Tuberculous peritonitis: can ADA keep the laparoscope away? Harlan WR 3rd, et al. **Gastroenterology** 1997 Aug; 113(2):687–9

Peritoneal fluid lactate dehydrogenase in ovarian cancer. Schneider D, et al. **Gynecol Oncol** 1997 Sep;66(3):399–404

Group II phospholipase A2 is increased in peritoneal and pleural effusions in patients with various types of cancer. Abe T, et al. **Int J Cancer** 1997 Jun 20;74(3):245–50

ETIOLOGY

Increased angiotensin II in ascites during severe ovarian hyperstimulation syndrome: role of early pregnancy and ovarian gonadotropin stimulation. Delbaere A, et al. **Fertil Steril** 1997 Jun;67(6):1038–45

[Pancreatic and extrapancreatic fluid collections following acute and chronic pancreatitis] Diaconescu MR, et al. **Chirurgia (Bucur)** 1996 Sep–Oct;45(5):239–43 (Eng. Abstr.) **(Rum)**

IMMUNOLOGY

Increased natural killer cells in fluids. A new, sensitive means of detecting carcinoma. Green LK, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1240–5

Increased interleukin-6 levels in peritoneal fluid of infertile patients with active endometriosis. Harada T, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):593–7

The suppression of peritoneal cellular immunity in women with endometriosis could be restored after gonadotropin releasing hormone agonist treatment. Wu MY, et al. **Am J Reprod Immunol** 1996 Jun;35(6):510–6

Prostate-specific antigen in ascitic fluid. Mannello F, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1461–2

Relevance of CA-125 in the evaluation of endometriosis. Colacurci N, et al. **Clin Exp Obstet Gynecol** 1996; 23(3):150–4

Detection of the TP53 tumour suppressor gene product and p53 auto-antibodies in the ascites of women with ovarian cancer. Angelopoulou K, et al. **Eur J Cancer** 1997 Jan; 33(1):115–21

Serum and peritoneal CA-125 levels as diagnostic test for endometriosis. Colacurci N, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 May;66(1):41–3

Monocyte chemotactic protein-1 concentration in peritoneal fluid of women with endometriosis and its modulation of expression in mesothelial cells. Arici A, et al. **Fertil Steril** 1997 Jun;67(6):1065–72

Enhanced interleukin-4 expression in patients with endometriosis. Hsu CC, et al. **Fertil Steril** 1997 Jun; 67(6):1059–64

Decreased amounts of antibodies to 22 and 18 kDa antigens in the peritoneal fluid of patients with endometriosis. LE Group d'Investigation en Gynecologie. Berkova N, et al. **Hum Reprod** 1996 Apr;11(4):861–7

Decreased levels of the potent regulator of monocyte/macrophage activation, interleukin-13, in the peritoneal fluid of patients with endometriosis. McLaren J, et al. **Hum Reprod** 1997 Jun;12(6):1307–10

Identification and characterization of an active soluble form of human CD38 in normal and pathological fluids. Funaro A, et al. **Int Immunol** 1996 Nov;8(11):1643–50

NK 1+ CD4- CD8- alphabeta T cells in the peritoneal cavity: specific T cell receptor-mediated cytotoxicity and selective IFN-gamma production against B cell leukemia and myeloma cells. Sugie T, et al. **J Immunol** 1996 Nov 1;157(9):3925–35

p53 and PCNA coexpression of 81 pleural and peritoneal effusion specimens: an immunohistochemical study. El-Habashi AH, et al. **Pathol Res Pract** 1996 Aug; 192(8):834–9

[Monitoring immunity factors in serum and peritoneal fluid after laparoscopy in women. II. Sperm and zona pellucida antibodies] Ulčová-Gallová Z, et al. **Ceska Gynekol** 1996 Jun;61(3):139–41 (Eng. Abstr.) **(Cze)**

[Changes in NK activities and TGF- beta concentrations in the peritoneal cavity in endometriosis and their interaction related with infertility] Mizumoto Y. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jun;48(6):379–85 (Eng. Abstr.) **(Jpn)**

[Immunologic characteristics of peritoneal fluid in endometriosis] Topalski-Fišteš N, et al. **Med Pregl** 1996; 49(9–10):356–60 (Eng. Abstr.) **(Scr)**

METABOLISM

Serum and ascitic levels of soluble intercellular adhesion molecule-1 in patients with alcoholic liver cirrhosis: relation to biochemical markers of disease activity and alcohol intake. Nagy I, et al. **Alcohol Clin Exp Res** 1996 Aug;20(5):929–33

Decrease in interferon gamma production and impairment of T-lymphocyte proliferation in peritoneal fluid of women with endometriosis. Ho HN, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1236–41

Increased levels of interleukin-6 and interleukin-10 in the peritoneal fluid of patients with endometriosis. Punnonen J, et al. **Am J Obstet Gynecol** 1996 May;174(5):1522–6

Pressure threshold for fluid loss from the peritoneal cavity. Flessner MF, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F377–90

Preincubation in peritoneal fluid decreases the follicular fluid-induced acrosomal reactivity of human spermatozoa. Revelli A, et al. **Andrologia** 1997 Jan–Feb;29(1):43–8

Lyphatic absorption in CAPD patients with loss of ultrafiltration capacity. Heimbürger O, et al. **Blood Purif** 1995 Nov–Dec;13(6):327–39

Sieving coefficients for small solutes during experimental peritoneal dialysis in rats. Park MS, et al. **Blood Purif** 1995 Nov–Dec;13(6):289–300

Coagulation and fibrinolytic responses of human peritoneal fluid and plasma to bacterial peritonitis. van Goor H, et al. **Br J Surg** 1996 Aug;83(8):1133–5

Peritoneal-plasma barrier. Jacquet P, et al. **Cancer Treat Res** 1996;82:53–63 (29 ref.)

Pharmacokinetics of the peritoneal-plasma barrier after

systemic mitomycin C administration. Sugarbaker PH, et al. **Cancer Treat Res** 1996;82:41–52

Severe ovarian hyperstimulation syndrome: serum and ascitic fluid concentrations of vascular endothelial growth factor. Agrawal R, et al. **Curr Opin Obstet Gynecol** 1997 Apr; 9(2):141–4

Homocysteine accumulation in human ovarian carcinoma ascitic/cystic fluids possibly caused by metabolic alteration of the methionine cycle in ovarian carcinoma cells. Corona G, et al. **Eur J Cancer** 1997 Jul;33(8):1284–90

Elevated concentration and biologic activity of monocyte chemotactic protein-1 in the peritoneal fluid of patients with endometriosis. Akoum A, et al. **Fertil Steril** 1996 Jul; 66(1):17–23

Characterization of intraperitoneal cytokines and nitrites in women with severe ovarian hyperstimulation syndrome. Revel A, et al. **Fertil Steril** 1996 Jul;66(1):66–71

Soluble CD23 protein in the peritoneal fluid of patients with endometriosis. Odukoya OA, et al. **Hum Reprod** 1996 Sep; 11(9):2018–21

Peritoneal fluid cytokines and the relationship with endometriosis and pain. Overton C, et al. **Hum Reprod** 1996 Feb;11(2):380–6

Insulin-like growth factor binding proteins in peritoneal fluid of women with minimal and mild endometriosis. Taskin O, et al. **Hum Reprod** 1996 Aug;11(8):1741–6

Protein exudation induced by manipulation of the intestines and mesentery during laparotomy in rat. A study of the mechanism of 'third space' loss. Moriwaki K, et al. **In Vivo** 1997 Jul–Aug;11(4):325–7

Simple models for fluid transport during peritoneal dialysis. Waniewski J, et al. **Int J Artif Organs** 1996 Aug; 19(8):455–66

Periovulatory elevation of angiotensin II in the peritoneal fluid during the human menstrual cycle. Delbaere A, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2810–5

Ovarian origin of plasma and peritoneal fluid prorenin in early pregnancy and in patients with ovarian hyperstimulation syndrome. Itskovitz-Eldor J, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):461–4

Disturbed host defense in peritoneal cavity during CAPD: characterization of responsible factors in dwell fluid. Vanholder R, et al. **Kidney Int** 1996 Aug;50(2):643–52

Serum-ascitic fluid albumin gradient, portal hypertension, and ascites [letter; comment] Rubin E. **Mayo Clin Proc** 1997 May;72(5):487. Comment on: Mayo Clin Proc 1996 Sep;71(9):874–81.

Endogenous induction of transient oxidant-imbalances in Ehrlich cells as a possible trigger to fast tumor fluid accumulation. Schwartsburd PM, et al. **Med Oncol** 1995 Dec;12(4):203–7

Interleukin-8 concentration in peritoneal fluid of patients with endometriosis and modulation of interleukin-8 expression in human mesothelial cells. Arici A, et al. **Mol Hum Reprod** 1996 Jan;2(1):40–5

Advanced glycation end-products in the peritoneal fluid and in the peritoneal membrane of continuous ambulant peritoneal dialysis patients. Mahiout A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:2–6

Peritoneal leak and chronic pericardial effusion in a CAPD patient. Näther S, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):1155–8

p53 and PCNA coexpression of 81 pleural and peritoneal effusion specimens: an immunohistochemical study. El-Habashi AH, et al. **Pathol Res Pract** 1996 Aug; 192(8):834–9

MICROBIOLOGY

Effect of omentectomy on peritoneal defence mechanisms in rats. Agalar F, et al. **Eur J Surg** 1997 Aug;163(8):605–9

Cokeromyces recurvatus isolated from pleural and peritoneal fluid: case report. Munipalli B, et al. **J Clin Microbiol** 1996 Oct;34(10):2601–3

Blood culture for spontaneous bacterial peritonitis [letter] Kapil A, et al. **Natl Med J India** 1997 Jan–Feb;10(1):47

[Echographic recognition of tuberculous peritonitis] Portielje JE, et al. **Ned Tijdschr Geneeskd** 1997 Jan 11;141(2):89–93 (Eng. Abstr.) **(Dut)**

[Pasteurella multocida as a cause of spontaneous bacterial peritonitis in a cirrhotic patient (letter)] Espinosa MD, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):644–5 **(Spa)**

[Infection of ascitic fluid by campylobacter jejuni in cirrhotic patients (letter)] Pinel Julián LM, et al. **Rev Esp Enferm Dig** 1997 Jun;89(6):489–90 **(Spa)**

PARASITOLOGY

Filarial ascites clinically mimicking malignancy [letter] Mehrotra R, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1329–30

Microfilariae of Wuchereria bancrofti in ascitic fluid. Handa R, et al. **Indian J Med Sci** 1996 Oct;50(10):368–9

PATHOLOGY

Rhabdoid cells in peritoneal fluid. A case report. Stastny JF, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1289–92

Cytologic diagnosis of primary serous lymphoma. Jones D, et al. **Am J Clin Pathol** 1996 Sep;106(3):359–64

Significance of peritoneal washings in gynecologic oncology. The experience with 901 intraoperative washings at an academic medical center. Mathew S, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):604–6

Identification of second malignancies on effusions and fine-needle aspirates using a panel of monoclonal antibodies. Mottolese M, et al. **Br J Cancer** 1997;75(4):572–8

p53 immunostaining is a highly specific and moderately sensitive marker of malignancy in serous fluid cytology. Mayall F, et al. **Cytopathology** 1997 Feb;8(1):9–12

Cytologic diagnosis of Ki-1 lymphoma in pleural and peritoneal effusions: a case report. Burja IT, et al. **Diagn Cytopathol** 1997 Aug;17(2):134–7

Taxol effect: bizarre mitotic figures (abnormal spindle asters) in a malignant peritoneal effusion: report of a case. Jordan CD, et al. **Diagn Cytopathol** 1997 Sep;17(3):209–12

Pericellular lacunae in the diagnosis of metastatic carcinoma in effusions: is this a useful sign? Thomson T, et al. **Diagn Cytopathol** 1996 Sep;15(3):193–6

Prognostic value of peritoneal cytology in patients with carcinoma of the uterine cervix. Takeshima N, et al. **Gynecol Oncol** 1997 Jan;64(1):136–40

Primary effusion Burkitt's lymphoma with t(8;22) in a patient with hepatitis C virus-related cirrhosis. Ascoli V, et al. **Hum Pathol** 1997 Jan;28(1):101–4

Effect of endometriosis on white blood cell subpopulations in peripheral blood and peritoneal fluid of baboons. D'Hooghe TM, et al. **Hum Reprod** 1996 Aug;11(8):1736–40

Tumor-associated lympho-monocytes from neoplastic effusions are immunologically defective in comparison with patient autologous PBMCs but are capable of releasing high amounts of various cytokines. Mantovani G, et al. **Int J Cancer** 1997 May 29;71(5):724–31

False positive malignant peritoneal cytology and psammoma bodies in benign gynecologic disease. Fanning J, et al. **J Reprod Med** 1996 Jul;41(7):504–8

Detection of carcinoembryonic antigen-expressing free tumor cells in peritoneal washes from patients with gastric carcinoma by polymerase chain reaction. Nakanishi H, et al. **Jpn J Cancer Res** 1997 Jul;88(7):687–92

Cytological diagnosis of serous effusions in a cancer hospital in Brazil. Oyafuso MS, et al. **Pathologica** 1996 Apr; 88(2):128–31

Peritoneal cytology in the determination of free tumour cells within the abdomen in colon cancer. Uras C, et al. **Surg Oncol** 1996 Oct–Dec;5(5–6):259–63

[Plasmacytic ascitis. Apropos of a case (letter)] Ramdani M, et al. **Presse Med** 1996 Sep 7;25(25):1167 **(Fre)**

[Death of cells from mouse peritoneal exudate induced by products of reaction of Fe2+ ions with previously photo-oxidized psoralen] Kiagova AA, et al. **Biofizika** 1997 Jan–Feb;42(1):191–5 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Highly malignant rat hepatoma AH66F cells respond to ascitic fluid. Nomura M, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):209–14

Effect of peritoneal fluid from patients with mild and severe endometriosis on endometrial stromal cell proliferation. Meresman GF, et al. **Arch Gynecol Obstet** 1997; 259(3):109–15

Hydrogen peroxide generation by polymorphonuclear leukocytes exposed to peritoneal dialysis effluent. Daniels I, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):682–8

Peritoneal fluid from women with moderate or severe endometriosis inhibits sperm motility: the role of seminal fluid components. Oral E, et al. **Fertil Steril** 1996 Nov; 66(5):787–92

RADIONUCLIDE IMAGING

Diagnosis of postoperative urinary ascites using renal scintigraphy. Powsner RA, et al. **Clin Nucl Med** 1997 Aug; 22(8):523–5

THERAPY

Home ascites drainage using a permanent Tenckhoff catheter. Po CL, et al. **Adv Perit Dial** 1996;12:235–6

Local immunotherapy with interferon-alpha in metastatic pleural and peritoneal effusions: correlation with immunologic parameters. Stathopoulos GP, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3855–60

ULTRASONOGRAPHY

Emergency physician use of ultrasonography in blunt abdominal trauma. Ingeman JE, et al. **Acad Emerg Med** 1996 Oct;3(10):931–7

Intussusception: trapped peritoneal fluid detected with US—relationship to reducibility and ischemia. del-Pozo G, et al. **Radiology** 1996 Nov;201(2):379–83

URINE

Diagnosis of postoperative urinary ascites using renal scintigraphy. Powsner RA, et al. **Clin Nucl Med** 1997 Aug; 22(8):523–5

VETERINARY

Peritoneal fluid analysis in peripartum mares. Van Hoogmoed L, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1280–2

Effusive-constrictive pericardial disease secondary to osseous metaplasia of the pericardium in a dog. Wright KN, et al. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2091–5

Fibronectin concentrations in pleural and abdominal effusions in dogs and cats. Hirschberger J, et al. **J Vet Intern Med** 1996 Sep–Oct;10(5):321–5

ASCOMYCETES

137Cs content in the fruit bodies of various Tuber species. Lorenzelli R, et al. **Health Phys** 1996 Dec;71(6):956–9

Effects of the mycelial extract of cultured Cordyceps sinensis on in vivo hepatic energy metabolism in the mouse. Manabe N, et al. **Jpn J Pharmacol** 1996 Jan;70(1):85–8

Lachnellins A, B, C, D, and naphthalene-1,3,8-triol, biologically active compounds from a Lachnellula species (ascomycetes). Semar M, et al. **Z Naturforsch [C]** 1996 Jul–Aug;51(7–8):500–12

CHEMISTRY

Polysaccharides in fungi. XXXVI. Hypoglycemic activity of a polysaccharide (CS-F30) from the cultural mycelium of Cordyceps sinensis and its effect on glucose metabolism in mouse liver. Kiho T, et al. **Biol Pharm Bull** 1996 Feb; 19(2):294–6

A new series of coumarin derivatives having monoamine oxidase inhibitory activity from Monascus anka. Hossain CF, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1535–9

Isolation of three new azaphilones, luteusins C, D, and E, from an ascomycete, talaromyces luteus. Yoshida E, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):284–7

Cercophorins A–C: novel antifungal and cytotoxic metabolites from the coprophilous fungus Cercophora areolata. Whyte AC, et al. **J Nat Prod** 1996 Aug; 59(8):765–9

Rapid isolation of double-stranded RNAs from entomopathogenic species of the fungus Paecilomyces using a commercial minicolumn system. Inglis PW, et al. **J Virol Methods** 1997 Aug;67(1):113–6

Identification and quantification of Tuber melanosporum Vitt. sterols. Harki E, et al. **Steroids** 1996 Oct;61(10):609–12

CLASSIFICATION

Carbon source utilization and isoenzyme analysis as taxonomic aids for toxigenic Neosartorya species and their relatives. Varga J, et al. **Acta Microbiol Immunol Hung** 1997;44(1):1–11

Candida novakii, sp. nov. a new anamorphic yeast species of ascomycetous affinity. Péter G, et al. **Antonie Van Leeuwenhoek** 1997 May;71(4):375–8

Typing Tuber melanosporum and Chinese black truffle species by molecular markers. Paolocci F, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):255–60

Phylogenetic relationships among members of the ascomycetous yeast genera Brettanomyces, Debaryomyces, Dekkera, and Kluyveromyces deduced by small-subunit rRNA gene sequences. Cai J, et al. **Int J Syst Bacteriol** 1996 Apr;46(2):542–9

Phylogenetic origins of the asexual mycorrhizal symbiont Cenococcum geophilum Fr. and other mycorrhizal fungi among the ascomycetes. LoBuglio KF, et al. **Mol Phylogenet Evol** 1996 Oct;6(2):287–94

Molecular evidence that the asexual industrial fungus Trichoderma reesei is a clonal derivative of the ascomycete Hypocrea jecorina. Kuhls K, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7755–60

CYTOLOGY

Melanogenesis, tyrosinase expression, and reproductive differentiation in black and white truffles (Ascomycotina). Miranda M, et al. **Pigment Cell Res** 1997 Feb–Apr; 10(1–2):46–53

DRUG EFFECTS

Effect of plant extracts and systemic fungicide on the pineapple fruit-rotting fungus, Ceratocystis paradoxa. Damayanti M, et al. **Cytobios** 1996;86(346):155–65

ENZYMOLOGY

Carbonyl reducing 17 beta-hydroxysteroid dehydrogenase from the filamentous fungus Cochliobolus lunatus. Rižner TL, et al. **Adv Exp Med Biol** 1997;414:569–77

Cloning, disruption, and expression of two endo-beta 1, 4-xylanase genes, XYL2 and XYL3, from Cochliobolus carbonum. Apel-Birkhold PC, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4129–35

Trihydroxynaphthalene reductase from Magnaporthe grisea: realization of an active center inhibitor and elucidation of the kinetic mechanism. Thompson JE, et al. **Biochemistry** 1997 Feb 18;36(7):1852–60

Polygalacturonase isolated from the culture of the psychrophilic fungus Sclerotinia borealis. Takasawa T, et al. **Can J Microbiol** 1997 May;43(5):417–24

Expression of the Sclerotinia sclerotiorum polygalacturonase pg1 gene: possible involvement of CREA in glucose catabolite repression. Reymond-Cotton P, et al. **Curr Genet** 1996 Aug;30(3):240–5

A flexible lid controls access to the active site in 1,3,8-trihydroxynaphthalene reductase. Andersson A, et al. **FEBS Lett** 1997 Jan 3;400(2):173–6

Aryl beta-galactosidase from Sclerotium rolfsii: physiological and biochemical studies. Bhosale JH, et al. **Hindustan Antibiot Bull** 1995 Feb–Nov;37(1–4):25–36

Ent-kaurene synthase from the fungus Phaeosphaeria sp. L487. cDNA isolation, characterization, and bacterial expression of a bifunctional diterpene cyclase in fungal gibberellin biosynthesis. Kawaide H, et al. **J Biol Chem**

1997 Aug 29;272(35):21706–12
Purification and characterization of 17beta-hydroxysteroid dehydrogenase from the filamentous fungus Cochliobolus lunatus. Rizner TL, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):205–14
Identification of putative phosphoinositide-specific phospholipase C genes in filamentous fungi. Jung OJ, et al. **Mol Cells** 1997 Apr 30;7(2):192–9
[Endoglucanase induction in Nectria catalinenesis with various carbon sources] Pardo AG, et al. **Rev Argent Microbiol** 1996 Oct–Dec;28(4):182–9 (Eng. Abstr.) **(Spa)**

GENETICS

Cloning, disruption, and expression of two endo-beta 1, 4-xylanase genes, XYL2 and XYL3, from Cochliobolus carbonum. Apel-Birkhold PC, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4129–35
Recovery of genomic DNA from a fungus (Sclerotinia homoeocarpa) with high polysaccharide content. Raina K, et al. **Biotechniques** 1996 Dec;21(6):1030–2
Interchromosomal transfer of epigenetic states in Ascobolus: transfer of DNA methylation is mechanistically related to homologous recombination. Colot V, et al. **Cell** 1996 Sep 20;86(6):855–64
Molecular aspects of pesticide degradation by microorganisms. Kumar S, et al. **Crit Rev Microbiol** 1996; 22(1):1–26 (129 ref.)
Plasticity of the mitochondrial genome in Podospora. Polymorphism for 15 optional sequences: group-I, group-II introns, intronic ORFs and an intergenic region. Belcour L, et al. **Curr Genet** 1997 Apr;31(4):308–17
Disparate sequence characteristics of the Erysiphe graminis f.sp. hordei glyceraldehyde-3-phosphate dehydrogenase gene. Christiansen SK, et al. **Curr Genet** 1997 Jun; 31(6):525–9
Intramolecular cross-overs generate deleted mitochondrial DNA molecules in Podospora anserina. Jamet-Vierny C, et al. **Curr Genet** 1997 Feb;31(2):162–70
Contribution of various classes of defective mitochondrial DNA molecules to senescence in Podospora anserina. Jamet-Vierny C, et al. **Curr Genet** 1997 Feb;31(2):171–8
A comparison of the nucleotide sequence of the cerato-ulmin gene and the rDNA ITS between aggressive and non-aggressive isolates of Ophiostoma ulmi sensu lato, the causal agent of Dutch elm disease. Jeng R, et al. **Curr Genet** 1996 Jan;29(2):168–73
Meiotic behaviour of the minichromosome in the phytopathogenic ascomycete Leptosphaeria maculans. Leclair S, et al. **Curr Genet** 1996 Dec;30(6):541–8
Transfer of an autonomously replicating vector between vegetatively incompatible biotypes of Colletotrichum gloeosporioides. Poplawski AM, et al. **Curr Genet** 1997 Jul; 32(1):66–72
Expression of the Sclerotinia sclerotiorum polygalacturonase pg1 gene: possible involvement of CREA in glucose catabolite repression. Reymond-Cotton P, et al. **Curr Genet** 1996 Aug;30(3):240–5
Rearrangements at a DNA-fingerprint locus in the rice blast fungus. Shull V, et al. **Curr Genet** 1996 Aug;30(3):263–71
Elimination of mitochondrial mutations by sexual reproduction: two Podospora anserina mitochondrial mutants yield only wild-type progeny when mated. Silliker ME, et al. **Curr Genet** 1996 Sep;30(4):318–24
Structure of a Gelasinospora linear plasmid closely related to the kalilo plasmid of Neurospora intermedia. Yuewang W, et al. **Curr Genet** 1996 Jan;29(2):150–8
Efficient cloning of ascomycete mating type genes by PCR amplification of the conserved MAT HMG Box. Arie T, et al. **Fungal Genet Biol** 1996 Feb;21(1):118–30
Characterization of mycobionts of photomorph pairs in the peltigerineae (lichenized ascomycetes) based on internal transcribed spacer sequences of the nuclear ribosomal DNA. Goffinet B, et al. **Fungal Genet Biol** 1997 Apr; 21(2):228–37
Multicellular ascomycetous fungal genomes contain more than 8000 genes. Kupfer DM, et al. **Fungal Genet Biol** 1997 Jun;21(3):364–72
Cross-pathway and pathway-specific control of amino acid biosynthesis in Magnaporthe grisea. Shen WC, et al. **Fungal Genet Biol** 1996 Feb;21(1):40–9
A large-insert (130 kbp) bacterial artificial chromosome library of the rice blast fungus Magnaporthe grisea: genome analysis, contig assembly, and gene cloning. Zhu H, et al. **Fungal Genet Biol** 1997 Jun;21(3):337–47
New cosmid vectors for library construction, chromosome walking and restriction mapping in filamentous fungi. An Z, et al. **Gene** 1996 Oct 17;176(1–2):93–6
Transposon-like sequences at the TOX2 locus of the plant-pathogenic fungus Cochliobolus carbonum. Panaccione DG, et al. **Gene** 1996 Oct 17;176(1–2):103–9
Premature death in Podospora anserina: sporadic accumulation of the deleted mitochondrial genome, translational parameters and innocuity of the mating types. Contamine V, et al. **Genetics** 1996 Oct;144(2):541–55
Cytosolic ribosomal mutations that abolish accumulation of circular intron in the mitochondria without preventing senescence of Podospora anserina. Silar P, et al. **Genetics** 1997 Mar;145(3):697–705
Origin and inheritance of group I introns in 26S rRNA genes of Gaeumannomyces graminis. Tan MK. **J Mol Evol** 1997 Jun;44(6):637–45
Genes that control longevity in Podospora anserina. Rossignol M, et al. **Mech Ageing Dev** 1996 Sep 30; 90(3):183–93
Ascus dissection. Saunders-Singer C. **Methods Mol Biol** 1996; 53:59–67 (3 ref.)
Meiotic analysis. Spencer JF, et al. **Methods Mol Biol** 1996; 53:51–8 (9 ref.)
A secreted aspartic proteinase from Glomerella cingulata: purification of the enzyme and molecular cloning of the cDNA. Clark SJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1395–403
Evolution of the frequency (frq) clock locus in Ascomycete fungi. Lewis MT, et al. **Mol Biol Evol** 1996 Nov; 13(9):1233–41
Intron open reading frames as mobile elements and evolution of a group I intron. Sellem CH, et al. **Mol Biol Evol** 1997 May;14(5):518–26
Identification of putative phosphoinositide-specific phospholipase C genes in filamentous fungi. Jung OJ, et al. **Mol Cells** 1997 Apr 30;7(2):192–9
Molecular cloning and sequence analysis of a putative ras gene of the phytopathogenic fungus Botryotinia fuckeliana. Park SY, et al. **Mol Cells** 1997 Apr 30;7(2):300–4
Isolation and characterization of a benomyl-resistant form of beta-tubulin-encoding gene from the phytopathogenic fungus Botryotinia fuckeliana. Park SY, et al. **Mol Cells** 1997 Feb 28;7(1):104–9
Homologous and heterologous expression of a ribosomal protein gene in Podospora anserina requires an intron. Dequard-Chablat M, et al. **Mol Gen Genet** 1997 Feb 20; 253(5):546–52
A meiotically reproducible chromosome length polymorphism in the asco..ycete fungus Ophiostoma ulmi (sensu lato). Dewar K, et al. **Mol Gen Genet** 1997 Jun; 255(1):38–44
Isolation and characterization of a laccase gene from Podospora anserina. Fernández-Larrea J, et al. **Mol Gen Genet** 1996 Oct 16;252(5):539–51
CgT1: a non-LTR retrotransposon with restricted distribution in the fungal phytopathogen Colletotrichum gloeosporioides. He C, et al. **Mol Gen Genet** 1996 Sep 13; 252(3):320–31
Analysis of frequency (frq) clock gene homologs: evidence for a helix-turn-helix transcription factor. Lewis MT, et al. **Mol Gen Genet** 1997 Jan 27;253(4):401–14
GRISEA, a putative copper-activated transcription factor from Podospora anserina involved in differentiation and senescence. Osiewacz HD, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):115–24
The melanin biosynthesis genes of Alternaria alternata can restore pathogenicity of the melanin-deficient mutants of Magnaporthe grisea. Kawamura C, et al. **Mol Plant Microbe Interact** 1997 May;10(4):446–53
The Cryphonectria parasitica plasmid pUG1 contains a large ORF with motifs characteristic of family B DNA polymerases. Gobbi E, et al. **Nucleic Acids Res** 1997 Aug 15;25(16):3275–80
Native DNA repeats and methylation in Ascobolus. Goyon C, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3348–56
The protein product of the het-s heterokaryon incompatibility gene of the fungus Podospora anserina behaves as a prion analog. Coustou V, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9773–8
Molecular evidence that the asexual industrial fungus Trichoderma reesei is a clonal derivative of the ascomycete Hypocrea jecorina. Kuhls K, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7755–60
Self-primed reverse transcription is a mechanism shared by several LTR-containing retrotransposons [letter] Lin JH, et al. **RNA** 1997 Sep;3(9):952–3
Mating systems in ascomycetes: a romp in the sac. Nelson MA. **Trends Genet** 1996 Feb;12(2):69–74
Epigenetic phenomena in filamentous fungi: useful paradigms or repeat-induced confusion? [see comments] Selker EU. **Trends Genet** 1997 Aug;13(8):296–301 (57 ref.). Comment in: Trends Genet 1997 Aug;13(8):293–5.
Cloning, mapping and characterization of a genomic copy of the Lipomyces kononenkoae alpha-amylase-encoding gene (LKA1). Steyn AJ, et al. **Yeast** 1996 Aug; 12(10):925–37

GROWTH & DEVELOPMENT

An apparatus (Georgiou-Petri dish) for growing fungi and other microorganisms on liquid media in a Petri dish. Georgiou CD. **Biotech Histochem** 1996 Nov;71(6):295–7
Determination of radial growth rate of colonies of Sclerotium rolfsii F-6656 for the evaluation of culture medium, optimum incubation temperature, osmo- and halotolerance. Fariña JI, et al. **Rev Argent Microbiol** 1996 Oct-Dec; 28(4):190–6

ISOLATION & PURIFICATION

Ascomycetous yeasts associated with naturally occurring fruits in a tropical rain forest. Prada GM, et al. **Folia Microbiol (Praha)** 1997;42(1):39–46
Chronic basidiomycetous endophthalmitis after extracapsular cataract extraction and intraocular lens implantation. Bartz-Schmidt KU, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Sep;234(9):591–3
Incidence and detection of thermotolerant and thermophilic fungi from maize with particular reference to Thermoascus species. Wareing PW. **Int J Food Microbiol** 1997 Apr 1; 35(2):137–45
First European cases of onychomycosis caused by Onychocola canadensis. Koenig H, et al. **J Med Vet Mycol** 1997 Jan-Feb;35(1):71–2
Maxillary sinusitis caused by Ascotricha chartarum Berk. (anamorph Dicyma ampullifera Boul.): a new phaeoid opportunistic human pathogen. Singh SM, et al. **J Med Vet Mycol** 1996 Jun-Jul;34(3):215–8

METABOLISM

Sorption of cadmium by filamentous soil fungi. Plaza G, et al. **Acta Microbiol Pol** 1996;45(2):193–201
Lignin biodegradation by the ascomycete Chrysonilia sitophila. Rodríguez J, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2-3):233–42 (70 ref.)
Scleroglucan. Wang Y, et al. **Crit Rev Biotechnol** 1996; 16(3):185–215 (160 ref.)
Analysis of host-induced response in the rice blast fungus Magnaporthe grisea using two-dimensional polyacrylamide gel electrophoresis. Kachroo P, et al. **Electrophoresis** 1997 Jan;18(1):163–9
Benesudon, a new antibiotic fungal metabolite from cultures of Mollisia benesuada (Tul.) Phill. Thines E, et al. **J Antibiot (Tokyo)** 1997 Jan;50(1):13–7
Lignocellulolysis by ascomycetes (fungi) of a saltmarsh grass (smooth cordgrass). Newell SY, et al. **Microsc Res Tech** 1996 Jan 1;33(1):32–46
[Cellulolytic activity of coprophilic fungi] Levin LN, et al. **Rev Argent Microbiol** 1996 Jul-Sep;28(3):132–8 (Eng. Abstr.) **(Spa)**

PATHOGENICITY

Breaking and entering: host penetration by the fungal rice blast pathogen Magnaporthe grisea. Howard RJ, et al. **Annu Rev Microbiol** 1996;50:491–512 (98 ref.)
The melanin biosynthesis genes of Alternaria alternata can restore pathogenicity of the melanin-deficient mutants of Magnaporthe grisea. Kawamura C, et al. **Mol Plant Microbe Interact** 1997 May;10(4):446–53
A single gene encodes a selective toxin causal to the development of tan spot of wheat. Ciuffetti LM, et al. **Plant Cell** 1997 Feb;9(2):135–44
Genetic characterization of five powdery mildew disease resistance loci in Arabidopsis thaliana. Adam L, et al. **Plant J** 1996 Mar;9(3):341–56

PHYSIOLOGY

Physiological characterization of a microbial sensor containing the yeast Arxula adeninivorans LS3. Riedel K, et al. **Antonie Van Leeuwenhoek** 1997 May;71(4):345–51
Self-fertility and uni-directional mating-type switching in Ceratocystis coerulescens, a filamentous ascomycete. Harrington TC, et al. **Curr Genet** 1997 Jul;32(1):52–9
Cancer is a hybrid produced by a relationship between a plant bacterium and a mammalian cell: an original concept. White MW. **Med Hypotheses** 1996 Jul;47(1):35–8
Studies on the response of carrot cells to a Sclerotinia sclerotiorum elicitor: induction of the expression of an extracellular glycoprotein mRNA. Bertinetti C, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):658–63
Inhibition of pathogenicity of the rice blast fungus by Saccharomyces cerevisiae alpha-factor. Beckerman JL, et al. **Science** 1997 May 16;276(5315):1116–9

ASCORBASE see **ASCORBATE OXIDASE**

ASCORBATE OXIDASE

ANTAGONISTS & INHIBITORS

Inhibition of ascorbate oxidase by phenolic compounds. Enzymatic and spectroscopic studies. Gaspard S, et al. **Biochemistry** 1997 Apr 22;36(16):4852–9

BLOOD

Redox potential regulation and ascorbate oxidase/gene expression in humans. Rao PS, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:289–304

CHEMISTRY

Role of quaternary structure in the stability of dimeric proteins: the case of ascorbate oxidase. Mei G, et al. **Biochemistry** 1997 Sep 9;36(36):10917–22
The type 2 copper of ascorbate oxidase. Reinhammar B, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):191–7

GENETICS

Cloning of the pumpkin ascorbate oxidase gene and analysis of a cis-acting region involved in induction by auxin. Kisu Y, et al. **Plant Cell Physiol** 1997 May;38(5):631–7
Melon ascorbate oxidase: cloning of a multigene family, induction during fruit development and repression by wounding. Diallinas G, et al. **Plant Mol Biol** 1997 Jul; 34(5):759–70

METABOLISM

Laser flash photolysis experiments on the effects of freezing and salt addition on intramolecular electron transfer within

one-electron reduced ascorbate oxidase. Hazzard JT, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):24-32
Ascorbic acid determination with an automated enzymatic procedure. Lee W, et al. **Clin Chem** 1997 Jan;43(1):154-7
Oxymetric and spectrophotometric study of the ascorbate oxidase activity shown by frog epidermis tyrosinase. Ramón Ros J, et al. **Int J Biochem Cell Biol** 1996 Aug; 28(8):917-23

PHYSIOLOGY

Effect of ascorbate oxidase on radical intensity and cytotoxic activity of ascorbate. Sakagami H, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1163-6

ASCORBIC ACID

Trp oxidation by copper-ascorbate under physiological conditions. Moreaux V, et al. **Adv Exp Med Biol** 1996; 398:719-26
Repeated measurements of vegetables, fruits, beta-carotene, and vitamins C and E in relation to lung cancer. The Zutphen Study. Ocké MC, et al. **Am J Epidemiol** 1997 Feb 15;145(4):358-65
Iron absorption from a traditional Sri Lankan weaning food and the enhancing effect of ascorbic acid in adult male volunteers. Liyanage C, et al. **Ceylon Med J** 1996 Dec; 41(4):135-40
Vitamin C status and colonic neoplasia. Lysy J, et al. **Dis Colon Rectum** 1996 Nov;39(11):1235-7
Liposomes containing alpha-tocopherol and ascorbate are protected from an external oxidant stress. Waters RE 2nd, et al. **Free Radic Res** 1997 Apr;26(4):373-9
A study of some important vitamins and antioxidants in a blackcurrant jam with low sugar content and without additives. Viberg U, et al. **Int J Food Sci Nutr** 1997 Jan; 48(1):57-66
Dietary vitamin C, beta-carotene and 30-year risk of stroke: results from the Western Electric Study. Daviglus ML, et al. **Neuroepidemiology** 1997;16(2):69-77
Beta-carotene, vitamin C, and vitamin E: the protective micronutrients. Charleux JL. **Nutr Rev** 1996 Nov;54(11 Pt 2):S109-14 (28 ref.)
Vitamins C and E and LDL oxidation. Frei B, et al. **Vitam Horm** 1996;52:1-34 (122 ref.)

ADMINISTRATION & DOSAGE

Weekly micronutrient supplementation to build iron stores in female Indonesian adolescents. Angeles-Agdeppa I, et al. **Am J Clin Nutr** 1997 Jul;66(1):177-83
Use of a new vitamin C-deficient diet in a depletion/repletion clinical trial. King J, et al. **Am J Clin Nutr** 1997 May; 65(5):1434-40
Fruits and vegetables: there is no substitute [editorial; comment] Levine M. **Am J Clin Nutr** 1996 Sep;64(3):381-2 . Comment on: Am J Clin Nutr 1996 Sep;64(3):336-46.
Intake of vitamins E, C, and A and risk of lung cancer. The NHANES I epidemiologic followup study. First National Health and Nutrition Examination Survey. Yong LC, et al. **Am J Epidemiol** 1997 Aug 1;146(3):231-43
Morphological and biochemical studies of daunorubicin hepatotoxicity including the protective effects of tocopherol and ascorbic acid. Chibowska I, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:183-91
Reduced resuscitation fluid volume for second-degree burns with delayed initiation of ascorbic acid therapy. Tanaka H, et al. **Arch Surg** 1997 Feb;132(2):158-61
Effects of dietary vitamin C and E supplementation on the copper mediated oxidation of HDL and on HDL mediated cholesterol efflux. Rifici VA, et al. **Atherosclerosis** 1996 Nov 15;127(1):19-26
Vitamins C and E, retinol, beta-carotene and dietary fibre in relation to breast cancer risk: a prospective cohort study. Verhoeven DT, et al. **Br J Cancer** 1997;75(1):149-55
Vitamin C intake and susceptibility to the common cold. Hemilä H. **Br J Nutr** 1997 Jan;77(1):59-72
Dietary ascorbic acid raises iron absorption in anaemic rats through enhancing mucosal iron uptake independent of iron solubility in the digesta. Wienk KJ, et al. **Br J Nutr** 1997 Jan;77(1):123-31
Dietary intake of specific carotenoids and vitamins A, C, and E, and prevalence of colorectal adenomas. Enger SM, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar; 5(3):147-53
Dietary beta-carotene, vitamin C, and risk of prostate cancer: results from the Western Electric Study [see comments] Daviglus ML, et al. **Epidemiology** 1996 Sep;7(5):472-7. Comment in: Epidemiology 1997 Jan;8(1):114-5.
The effect of vitamin C in high doses on plasma and biliary lipid composition in patients with cholesterol gallstones: prolongation of the nucleation time. Gustafsson U, et al. **Eur J Clin Invest** 1997 May;27(5):387-91
Response to an iron fortification programme in relation to vitamin A status in 6-12-year-old school children. van Stuijvenberg ME, et al. **Int J Food Sci Nutr** 1997 Jan; 48(1):41-9
The value of antioxidant supplements vs their natural counterparts [letter; comment] Herbert V. **J Am Diet Assoc** 1997 Apr;97(4):375-6. Comment on: J Am Diet Assoc 1996 Jul;96(7):693-702; quiz 703-4.
Dietary intake and plasma concentrations of vitamin E, vitamin C, and beta carotene in patients with coronary artery disease. Mandel CH, et al. **J Am Diet Assoc** 1997 Jun;97(6):655-7
Vitamin C and cardiovascular disease: a systematic review. Ness AR, et al. **J Cardiovasc Risk** 1996 Dec;3(6):513-21 (63 ref.)
Vitamin C and blood pressure--an overview. Ness AR, et al. **J Hum Hypertens** 1997 Jun;11(6):343-50 (51 ref.)
Influence of combined use of selenious acid and SH compounds in parenteral preparations. Terada A, et al. **J Trace Elem Med Biol** 1997 Jun;11(2):105-9
Determination of the L-ascorbic acid requirements in Wistar osteogenic disorder Shionogi rats for prolonged carcinogenesis experiments. Chan SW, et al. **Lab Anim** 1996 Oct;30(4):337-46
In situ kinetics: an approach to recommended intake of vitamin C. Levine M, et al. **Methods Enzymol** 1997; 281:425-37
Principles involved in formulating recommendations for vitamin C intake: a paradigm for water-soluble vitamins. Levine M, et al. **Methods Enzymol** 1997;279:43-54 (44 ref.)
New data on vitamin C intake [editorial] Bendich A. **Nutrition** 1997 Feb;13(2):154-5
Analysis of types I, II, III, IX and XI collagens synthesized by fetal bovine chondrocytes in high-density culture. Ronzière MC, et al. **Osteoarthritis Cartilage** 1997 May; 5(3):205-14
A double-blind, placebo-controlled, crossover trial of oral vitamin C in erythropoietic protoporphyria. Boffa MJ, et al. **Photodermatol Photoimmunol Photomed** 1996 Feb; 12(1):27-30
Evidence for a recommended dietary allowance for vitamin C from pharmacokinetics: a comment and analysis. Young VR. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14344-8
Ascorbic acid and chronic diseases. How strong is the evidence? Boeing H, et al. **Subcell Biochem** 1996;25:117-36 (106 ref.)
[Nonconventional therapy in a case of systemic juvenile rheumatoid arthritis] Cocchi P, et al. **Pediatr Med Chir** 1996 May-Jun;18(3):319-20 (9 ref.) (Eng. Abstr.) **(Ita)**
[The effect of the use of milk fortified with iron and vitamin C on hemoglobin levels and nutritional status of children under 2] Torres MA, et al. **Rev Saude Publica** 1995 Aug; 29(4):301-7 (Eng. Abstr.) **(Por)**
[The effect of vitamins on the natural body resistance of patients with malignant lymphomas] Kindzel'skiĭ LP, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):164-6 **(Rus)**
[The laser-magnetic phoresis of ascorbic acid in the combined health-resort therapy of osteoarthrosis patients] Ibadova GD, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul-Aug;(4):17-9 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Interventional therapy with megadose of antioxidant vitamins in patients with acute myocardial infarction: could we throw caution to the winds? [letter] Anand U, et al. **Am J Cardiol** 1997 Sep 15;80(6):823-4
Dietary beta-carotene, vitamin C, and risks of prostate cancer [letter; comment] Singh PN. **Epidemiology** 1997 Jan; 8(1):114-5. Comment on: Epidemiology 1996 Sep;7(5):472-7.
Secondary oxalosis: a cause of delayed recovery of renal function in the setting of acute renal failure. Alkhunaizi AM, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2320-6
Does vitamin C cause hemolysis in premature newborn infants? Results of a multicenter double-blind, randomized, controlled trial. Doyle J, et al. **J Pediatr** 1997 Jan; 130(1):103-9

ANALOGS & DERIVATIVES

Reduced ischemia-reperfusion injury in muscle. Experiments in rats with EPC-K1, a new radical scavenger. Hirose J, et al. **Acta Orthop Scand** 1997 Aug;68(4):369-73
L-ascorbic acid regulates growth and metabolism of renal cells: improvements in cell culture. Nowak G, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C2072-80
EPC-K1 is effective in lung preservation in an ex vivo rabbit lung perfusion model. Nagahiro I, et al. **Ann Thorac Surg** 1997 Apr;63(4):954-9
Zilascorb(2H), a new reversible protein synthesis inhibitor: clinical study of an oral preparation. Semb KA, et al. **Anticancer Drugs** 1997 Mar;8(3):296-303
Relationship between ascorbyl radical intensity and apoptosis-inducing activity. Sakagami H, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2635-44
Ca2+ mobilization during cell death induction by sodium 5, 6-benzylidene-L-ascorbate. Takahashi H, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2629-34
Ascorbic acid 2-O-alpha-glucoside-induced redox modulation in human keratinocyte cell line, SCC: mechanisms of photoprotective effect against ultraviolet light B. Miyai E, et al. **Biol Pharm Bull** 1997 Jun; 20(6):632-6
Ascorbic acid 2-O-alpha-glucoside, a stable form of ascorbic acid, rescues human keratinocyte cell line, SCC, from cytotoxicity of ultraviolet light B. Miyai E, et al. **Biol Pharm Bull** 1996 Jul;19(7):984-7
Synthesis of novel vitamin C phosphodiesters: stability and antioxidant activity. Morisaki K, et al. **Carbohydr Res** 1996 Jun 5;286:123-38
Design of novel hybrid vitamin C derivatives: thermal stability and biological activity. Morisaki K, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep;44(9):1647-55
Comparison of the effects of ascorbyl gamma-linolenic acid and gamma-linolenic acid in the correction of neurovascular deficits in diabetic rats. Cameron NE, et al. **Diabetologia** 1996 Sep;39(9):1047-54
Accessibility and reactivity of ascorbate 6-palmitate bound to erythrocyte membranes. May JM, et al. **Free Radic Biol Med** 1996;21(4):471-80
Enhanced protection against peroxidation-induced mortality of aortic endothelial cells by ascorbic acid-2-O-phosphate abundantly accumulated in the cell as the dephosphorylated form. Fujiwara M, et al. **Free Radic Res** 1997 Jul; 27(1):97-104
Inhibitory effects of a phosphate diester of alpha-tocopherol and ascorbic acid (EPC-K1) on myocardial infarction in rats. Kuribayashi Y, et al. **Int J Tissue React** 1996; 18(2-3):73-9
High-performance liquid chromatographic analysis of ascorbyl-2-phosphate in fish tissues. Sakai T, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):196-8
Stability of vitamin C derivatives in solution and topical formulations. Austria R, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):795-801
Ascorbic acid and 6-deoxy-6-chloro-ascorbic acid: potential anticancer drugs. Osmak M, et al. **Neoplasma** 1997; 44(2):101-7
Positron-labeled antioxidant 6-deoxy-6-[18F]fluoro-L-ascorbic acid: increased uptake in transient global ischemic rat brain. Yamamoto F, et al. **Nucl Med Biol** 1996 May;23(4):479-86
Ascorbyl-2-sulfate compared with ascorbic acid in Atlantic salmon: uptake and distribution confirmed by mass spectroscopy. Felton SP, et al. **Proc Soc Exp Biol Med** 1997 Jul;215(3):248-57
Hepatropic soluble vitamin E derivative EPC-K1 prevents warm ischemia/reperfusion injury of non-heart-beating donor liver transplantation in pigs. Yagi T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1390-3
[Effect of phosphate diester linkage of vitamin E and vitamin C (EPC-K1) on myocardial ischemia reperfusion injury in the isolated working rat heart] Inoue M. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):742-9 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Measurement of ascorbate and dehydroascorbate contents in biological fluids. Koshiishi I, et al. **Anal Chem** 1997 Jan 15;69(2):216-20
Flow injection fluorimetric determination of ascorbic acid based on its photooxidation by thionine blue. Pérez-Ruiz T, et al. **Analyst** 1997 Feb;122(2):115-8
Tissue-specific development of antioxidant systems during avian embryogenesis. Speake BK, et al. **Biochem Soc Trans** 1996 May;24(2):182S
Seasonal- and temperature-dependent variation in CNS ascorbate and glutathione levels in anoxia-tolerant turtles. Pérez-Pinzón MA, et al. **Brain Res** 1995 Dec 24; 705(1-2):45-52
Detection of an ascorbate radical in an irradiated mice using electron spin resonance (ESR). Isoda H, et al. **Indian J Exp Biol** 1996 Sep;34(9):898-900
Ascorbic acid levels in maternal and cord serum. Bairwa A, et al. **Indian Pediatr** 1995 Sep;32(9):999-1001
Vitamin c status and undiagnosed angina. Ness AR, et al. **J Cardiovasc Risk** 1996 Aug;3(4):373-7
Liquid chromatographic measurement of L-ascorbic acid and D-ascorbic acid in biological samples. Margolis SA, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):25-33
In vivo determination of extracellular brain ascorbate. Miele M, et al. **J Neurosci Methods** 1996 Dec;70(1):15-9
Determination of vitamin C in effervescent tablets containing other vitamins together with trace elements. Kovács-Hadady K, et al. **J Pharm Biomed Anal** 1996 Aug; 14(11):1479-86
Gas chromatographic/mass spectrometric measurement of ascorbic acid and analysis of ascorbic acid degradation in solution. Deutsch JC. **Methods Enzymol** 1997;279:13-24 (10 ref.)
Analysis of ascorbic acid, dehydroascorbic acid, and transformation products by ion-pairing high-performance liquid chromatography with multiwavelength ultraviolet and electrochemical detection. Kimoto E, et al. **Methods Enzymol** 1997;279:3-12 (29 ref.)
Proximate composition and mineral content of selected Tanzanian vegetables and the effect of traditional processing on the retention of ascorbic acid, riboflavin and thiamine. Mosha TC, et al. **Plant Foods Hum Nutr** 1995 Oct;48(3):235-45
Decreasing the NO3 and increasing the vitamin C contents in spinach by a nitrogen deprivation method. Mozafar A. **Plant Foods Hum Nutr** 1996 Feb;49(2):155-62
[Regeneration of endogenous antioxidants, ascorbic acid, alpha tocopherol, by the oligomeric procyanide fraction of Vitus vinifera L.:ESR study] Maffei Facino R, et al. **Boll Chim Farm** 1997 Apr;136(4):340-4 **(Ita)**

ANTAGONISTS & INHIBITORS

Inhibition of cytotoxic activity of ascorbate by human cancer patient sera. Sakagami H, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):425-8

The effect of quinolinate on rat brain lipid peroxidation is dependent on iron. Stípek S, et al. **Neurochem Int** 1997 Feb;30(2):233–7

BIOSYNTHESIS

D-arabinose dehydrogenase and biosynthesis of erythroascorbic acid in Candida albicans. Kim ST, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):1–8

Evolutionary significance of vitamin C biosynthesis in terrestrial vertebrates. Nandi A, et al. **Free Radic Biol Med** 1997;22(6):1047–54

Reduction of dehydroascorbate to ascorbate by the selenoenzyme thioredoxin reductase. May JM, et al. **J Biol Chem** 1997 Sep 5;272(36):22607–10

Effect of dietary vitamin C on compression injury of the spinal cord in a rat mutant unable to synthesize ascorbic acid and its correlation with that of vitamin E. Katoh D, et al. **Spinal Cord** 1996 Apr;34(4):234–8

Biochemistry and molecular biology of ascorbic acid biosynthesis. Nishikimi M, et al. **Subcell Biochem** 1996; 25:17–39 (77 ref.)

[Recent advance in the study of ascorbic acid biosynthesis] Nishikimi M. **Seikagaku** 1996 May;68(5):377–80 **(Jpn)**

BLOOD

Erythrocyte vitamin E and plasma ascorbate concentrations in relation to erythrocyte peroxidation in smokers and nonsmokers: dose response to vitamin E supplementation [see comments] Brown KM, et al. **Am J Clin Nutr** 1997 Feb;65(2):496–502. Comment in: Am J Clin Nutr 1997 Feb;65(2):562–3. Comment in: Am J Clin Nutr 1997 Sep;66(3):708–10.

Serum beta-carotene and vitamin C as biomarkers of vegetable and fruit intakes in a community-based sample of French adults. Drewnowski A, et al. **Am J Clin Nutr** 1997 Jun;65(6):1796–802

Effect of haptoglobin on the metabolism of vitamin C. Langlois MR, et al. **Am J Clin Nutr** 1997 Sep;66(3):606–10

Ascorbic acid and dehydroascorbic acid as biomarkers of oxidative stress caused by smoking. Lykkesfeldt J, et al. **Am J Clin Nutr** 1997 Apr;65(4):959–63

Racial group differences in plasma concentrations of antioxidant vitamins and carotenoids in hemodialysis patients. Rock CL, et al. **Am J Clin Nutr** 1997 Mar; 65(3):844–50

Vitamin E supplementation and plasma ascorbate [letter; comment] Santos MS, et al. **Am J Clin Nutr** 1997 Sep; 66(3):708–10. Comment on: Am J Clin Nutr 1997 Feb;65(2):496–502. Comment on: Am J Clin Nutr 1997 Feb;65(2):562–3.

Plasma vitamin C concentrations in patients with cystic fibrosis: evidence of associations with lung inflammation [see comments] Winklhofer-Roob BM, et al. **Am J Clin Nutr** 1997 Jun;65(6):1858–66. Comment in: Am J Clin Nutr 1997 Jun;65(6):1891–2.

Vitamin E and exercise in the Northern Ireland population. Duly EB, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):234–40

Increased levels of autoantibodies to cardiolipin and oxidised low density lipoprotein are inversely associated with plasma vitamin C status in cigarette smokers. Fickl H, et al. **Atherosclerosis** 1996 Jul;124(1):75–81

Ascorbate and urate are the strongest determinants of plasma antioxidative capacity and serum lipid resistance to oxidation in Finnish men. Nyyssönen K, et al. **Atherosclerosis** 1997 Apr;130(1–2):223–33

Plasminogen activator inhibitor-1, the acute phase response and vitamin C. Woodhouse PR, et al. **Atherosclerosis** 1997 Aug;133(1):71–6

Ascorbic acid determination with an automated enzymatic procedure. Lee W, et al. **Clin Chem** 1997 Jan;43(1):154–7

Plasma concentrations of vitamin C, vitamin E and/or malondialdehyde as markers of oxygen free radical production during hemodialysis. Hultqvist M, et al. **Clin Nephrol** 1997 Jan;47(1):37–46

Nutrition and therapeutics [editorial] Samman S. **Curr Opin Lipidol** 1997 Aug;8(4):U47–8

Vitamin C status and serum lipids. Ness AR, et al. **Eur J Clin Nutr** 1996 Nov;50(11):724–9

Vitamin C status and respiratory function. Ness AR, et al. **Eur J Clin Nutr** 1996 Sep;50(9):573–9

Plasma ascorbic acid level and erythrocyte fragility in preeclampsia and eclampsia. Ozan H, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan;71(1):35–40

Effects of exhaustive exercise and vitamin B6 deficiency on free radical oxidative process in male trained rats. Benderitter M, et al. **Free Radic Biol Med** 1996;21(4):541–9

Increased ascorbate radical formation and ascorbate depletion in plasma from women with preeclampsia: implications for oxidative stress. Hubel CA, et al. **Free Radic Biol Med** 1997;23(4):597–609

Vitamin C redox reactions in blood of normal and malaria-infected mice studied with isoascorbate as a nonisotopic marker. Iheanacho EN, et al. **Free Radic Biol Med** 1995 Mar;18(3):543–52

Ascorbate recycling in human erythrocytes: role of GSH in reducing dehydroascorbate. May JM, et al. **Free Radic Biol Med** 1996;20(4):543–51

Role of ascorbate and protein thiols in the release of nitric oxide from S-nitroso-albumin and S-nitroso-glutathione in human plasma. Scorza G, et al. **Free Radic Biol Med** 1997;22(4):633–42

Validation of dietary assessment methods in the UK arm of EPIC using weighed records, and 24-hour urinary nitrogen and potassium and serum vitamin C and carotenoids as biomarkers. Bingham SA, et al. **Int J Epidemiol** 1997;26 Suppl 1:S137–51

Vitamin C status of patients with chronic renal failure, dialysis patients and patients after renal transplantation. Böhm V, et al. **Int J Vitam Nutr Res** 1997;67(4):262–6

Plasma and blood cells vitamin A, vitamin E and vitamin C concentrations in pre- and postmenopausal healthy women. Ortiz-Apodaca MA, et al. **Int J Vitam Nutr Res** 1997;67(1):62–3

Vitamin C status of adults living in Valencia, Spain. Influence of non-nutritional factors on plasma vitamin C. Pons IF, et al. **Int J Vitam Nutr Res** 1997;67(4):255–61

Validation of a micromethod for determining oxidized and reduced vitamin C in plasma by HPLC-fluorescence. Tessier F, et al. **Int J Vitam Nutr Res** 1996;66(2):166–70

Estimation of vitamin needs—riboflavin, vitamin B6 and ascorbic acid-according to blood parameters and functional-cognitive and emotional indices in a selected well-established group of elderly in a home for the aged in Israel. Dror Y, et al. **J Am Coll Nutr** 1996 Oct; 15(5):481–8

Dietary intake and plasma concentrations of vitamin E, vitamin C, and beta carotene in patients with coronary artery disease. Mandel CH, et al. **J Am Diet Assoc** 1997 Jun;97(6):655–7

The relation between antioxidants and memory performance in the old and very old. Perrig WJ, et al. **J Am Geriatr Soc** 1997 Jun;45(6):718–24

Antioxidant activity of vitamin C in iron-overloaded human plasma. Berger TM, et al. **J Biol Chem** 1997 Jun 20; 272(25):15656–60

Determination of ascorbic and dehydroascorbic acids in blood plasma and serum by liquid chromatography. Esteve MJ, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24; 688(2):345–9

Plasma cholesterol, B-carotene and ascorbic acid changes in human malaria. Njoku OU, et al. **J Commun Dis** 1995 Sep;27(3):186–90

Evaluation of the changes in serum lipid profile and ferritin concentrations in relation to body ascorbic acid status in healthy pre- and postmenopausal women. Oner P, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):1–9

[Frequency of HPV infection and the level of ascorbic acid in serum of women with cervix dysplasia] Kwaśniewska A, et al. **Med Dosw Mikrobiol** 1996;48(3–4):183–8 (Eng. Abstr.) **(Pol)**

CHEMISTRY

Ascorbic acid and dehydroascorbic acid interconversion without net oxidation or reduction. Deutsch JC. **Anal Biochem** 1997 Apr 5;247(1):58–62

Redox cycling of polycyclic aromatic hydrocarbon o-quinones: reversal of superoxide dismutase inhibition by ascorbate. Jarabak R, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):92–8

Iron bound to ferritin catalyzes ascorbate oxidation: effects of chelating agents. Roginsky VA, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):33–9

Remarkable enhancement of antioxidant activity of vitamin C in an artificial bilayer by making it lipo-soluble. Liu XY, et al. **Chem Phys Lipids** 1996 Sep 16;83(1):39–43

Quantitation of hydroxyl radicals produced by radiation and copper-linked oxidation of ascorbate by 2-deoxy-D-ribose method. Biaglow JE, et al. **Free Radic Biol Med** 1997; 22(7):1129–38

beta-phosphorylated nitroxides in the pyrrolidine series: reduction by ascorbate. Mathieu C, et al. **Free Radic Biol Med** 1997;22(5):803–6

Stopped-flow kinetic investigation of the oxidation of ascorbic acid by iron (III) benzohydroxamic acid. Lakshmi S, et al. **J Inorg Biochem** 1996 Feb 15;61(3):155–63

Short term storage of samples containing monoamines: ascorbic acid and glutathione give better protection against degradation than perchloric acid. Boix F, et al. **J Neurosci Methods** 1997 Jul 18;75(1):69–73

Stability of vitamin C derivatives in solution and topical formulations. Austria R, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):795–801

Sodium ascorbate induces DNA single-strand breaks in human cells in vitro. Singh NP. **Mutat Res** 1997 Apr 29; 375(2):195–203

Michael reactions of ascorbic acid, 4th communication: nitrostyrene as a Michael acceptor toward vitamin C. Schmidt M, et al. **Pharmazie** 1996 Jan;51(1):11–6

DEFICIENCY see ASCORBIC ACID DEFICIENCY

GENETICS

Did the loss of endogenous ascorbate propel the evolution of Anthropoidea and Homo sapiens? Challem JJ. **Med Hypotheses** 1997 May;48(5):387–92 (52 ref.)

HISTORY

Questions and reflections "go read Crandon's paper". Fritts HW Jr. **Pharos** 1996 Winter;59(1):37

Three eras of vitamin C discovery. Jacob RA. **Subcell Biochem** 1996;25:1–16 (81 ref.)

IMMUNOLOGY

Vitamin C supplementation does not alter the immune response to 2.5 hours of running. Nieman DC, et al. **Int J Sport Nutr** 1997 Sep;7(3):173–84

METABOLISM

Metabolism of vitamin C in health and disease. Bode AM. **Adv Pharmacol** 1997;38:21–47 (156 ref.)

Prolonged coronary artery occlusion-reperfusion sequences reduce myocardial free radical production: an electron paramagnetic resonance study. Lindower PD, et al. **Am Heart J** 1996 Dec;132(6):1147–55

Effects of erythorbic acid on vitamin C metabolism in young women [see comments] Sauberlich HE, et al. **Am J Clin Nutr** 1996 Sep;64(3):336–46. Comment in: Am J Clin Nutr 1996 Sep;64(3):381–2.

Evaluation of ascorbate and urate antioxidant capacity in human semen. Gavella M, et al. **Andrologia** 1997 Jan–Feb; 29(1):29–35

Stimulation of two step degradation of sodium ascorbate by lignins. Sakagami H, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):2849–51

Ascorbyl radical scavenging activity of polyphenols. Satoh K, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2885–90

Enhancement of radical intensity and cytotoxic activity of ascorbate by PSK and lignins. Satoh K, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2981–6

Enhancement of radical intensity and cytotoxic activity of ascorbate by hyperthermia. Satoh K, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2987–91

Influence of L-galactonic acid gamma-lactone on ascorbate production in some yeasts. Onofri S, et al. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):277–80

Increased oxidation of LDL in patients with coronary artery disease is independent from dietary vitamins E and C. Halevy D, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul; 17(7):1432–7

Ascorbate stabilization is stimulated in rho(0)HL-60 cells by CoQ10 increase at the plasma membrane. Gómez-Díaz C, et al. **Biochem Biophys Res Commun** 1997 May 8; 234(1):79–81

Nitrogen dioxide depletes uric acid and ascorbic acid but not glutathione from lung lining fluid. Kelly FJ, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):95–9

Two distinct uptake mechanisms for ascorbate and dehydroascorbate in human lymphoblasts and their interaction with glucose. Ngkeekwong FC, et al. **Biochem J** 1997 May 15;324 (Pt 1):225–30

Active oxygen metabolism in the senescence of pea leaves: ascorbate and glutathione contents in different cell compartments. Jimenez A, et al. **Biochem Soc Trans** 1996 May;24(2):198S

Ascorbate metabolism in relation to oxidative stress. Smirnoff N, et al. **Biochem Soc Trans** 1996 May;24(2):472–8 (50 ref.)

Changes in extracellular brain ascorbate in rat striatum in response to administration of non-volatile anaesthetic agents. Miele M, et al. **Br J Anaesth** 1997 May;78(5):588–90

Vitamin C and copper interactions in guinea-pigs and a study of collagen cross-links. Tsuchiya H, et al. **Br J Nutr** 1997 Feb;77(2):315–25

Effects of morphine treatment and withdrawal on striatal and limbic monoaminergic activity and ascorbic acid oxidation in the rat. Desole MS, et al. **Brain Res** 1996 Jun 3;723(1–2):154–61

Effect of morphine on striatal dopamine metabolism and ascorbic and uric acid release in freely moving rats. Enrico P, et al. **Brain Res** 1997 Jan 16;745(1–2):173–82

Effect of antiproliferative flavonoids on ascorbic acid accumulation in human colon adenocarcinoma cells. Kuo SM, et al. **Cancer Lett** 1997 Jun 24;116(2):131–7

Change in ascorbate radical production in an irradiated experimental tumor with increased tumor size. Isoda H, et al. **Cancer Res** 1996 Dec 15;56(24):5741–4

Extracellular glutathione peroxidase and ascorbic acid in aqueous humor and serum of patients operated on for cataract. Haung W, et al. **Clin Chim Acta** 1997 May 28; 261(2):117–30

Lipid peroxidation and ascorbic acid status in respiratory organs of male and female freshwater catfish Heteropneustes fossilis exposed to temperature increase. Parihar MS, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1995 Nov;112(3):309–13

Cysteine and ascorbate loss in the diabetic rat lens prior to hydration changes. Mitton KP, et al. **Curr Eye Res** 1997 Jun;16(6):564–71

Determination of ascorbic acid in human vitreous humor by high-performance liquid chromatography with UV detection. Takano S, et al. **Curr Eye Res** 1997 Jun; 16(6):589–94

High galactose levels in vitro and in vivo impair ascorbate regeneration and increase ascorbate-mediated glycation in cultured rat lens. Saxena P, et al. **Exp Eye Res** 1996 Nov; 63(5):535–45

Ascorbate metabolism and its regulation in animals. Bánhegyi G, et al. **Free Radic Biol Med** 1997;23(5):793–803 (83 ref.)

Ascorbate as a substrate for glycolysis or gluconeogenesis: evidence for an interorgan ascorbate cycle. Braun L, et al. **Free Radic Biol Med** 1997;23(5):804–8

Vitamins C and E interact in juvenile Atlantic salmon (Salmo salar, L.). Hamre K, et al. **Free Radic Biol Med** 1997;

22(1-2):137-49
Uric acid and ascorbic acid redox ratios in plasma and tracheal aspirate of preterm babies with acute and chronic lung disease. Moison RM, et al. **Free Radic Biol Med** 1997; 23(2):226-34
In vivo exposure to ozone depletes vitamins C and E and induces lipid peroxidation in epidermal layers of murine skin. Thiele JJ, et al. **Free Radic Biol Med** 1997;23(3):385-91
Phospholipid hydroperoxides and lipid peroxidation in liver and plasma of ODS rats supplemented with alpha-tocopherol and ascorbic acid. Cadenas S, et al. **Free Radic Res** 1996 Jun;24(6):485-93
Iron (II) ions induced oxidation of ascorbic acid and glucose. Mlakar A, et al. **Free Radic Res** 1996 Dec;25(6):525-39
Ferrous-ascorbate complexes as carriers of nitric oxide. Kuropteva ZV, et al. **Gen Physiol Biophys** 1997 Mar; 16(1):91-6
Ascorbic acid and amino acid values in the aqueous humor of a patient with Lowe's syndrome. Hayasaka S, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Apr;235(4):217-21
Interrelationship of dietary lipids and ascorbic acid with hepatic enzymes of cholesterol metabolic pathway. Sen S, et al. **Indian J Exp Biol** 1997 Jan;35(1):42-5
Oxymetric and spectrophotometric study of the ascorbate oxidase activity shown by frog epidermis tyrosinase. Ramón Ros J, et al. **Int J Biochem Cell Biol** 1996 Aug; 28(8):917-23
Lipid peroxidation and antioxidant vitamins C and E in hypertensive patients. Wen Y, et al. **Ir J Med Sci** 1996 Jul-Sep;165(3):210-2
Extracellular ascorbate stabilization as a result of transplasma electron transfer in Saccharomyces cerevisiae. Santos-Ocaña C, et al. **J Bioenerg Biomembr** 1995 Dec; 27(6):597-603
Efficient transport and accumulation of vitamin C in HL-60 cells depleted of glutathione. Guaiquil VH, et al. **J Biol Chem** 1997 Apr 11;272(15):9915-21
Increased uptake and accumulation of vitamin C in human immunodeficiency virus 1-infected hematopoietic cell lines. Rivas CI, et al. **J Biol Chem** 1997 Feb 28;272(9):5814-20
In vivo, continuous and automatic monitoring of extracellular ascorbic acid by microdialysis and on-line liquid chromatography. Tsai PJ, et al. **J Chromatogr B Biomed Appl** 1996 Nov 15;686(2):151-6
Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275-81
Osmotic swelling stimulates ascorbate efflux from cerebral astrocytes. Siushansian R, et al. **J Neurochem** 1996 Mar; 66(3):1227-33
Cerebral astrocytes transport ascorbic acid and dehydroascorbic acid through distinct mechanisms regulated by cyclic AMP. Siushansian R, et al. **J Neurochem** 1997 Jun;68(6):2378-85
A positive correlation between catalase activity and ascorbate uptake in the tissues of guinea pigs and cultured cells of mammals. Nemoto S, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):387-95
Transepithelial transport of ascorbic acid by the isolated intact ciliary epithelial bilayer of the rabbit eye. Mead A, et al. **J Ocul Pharmacol Ther** 1996 Fall;12(3):253-8
Microplate assay of ascorbic acid in aqueous humor with bicinchoninic acid. Shichi H, et al. **J Ocul Pharmacol Ther** 1997 Jun;13(3):201-6
Ischemia/reperfusion alters uric acid and ascorbic acid levels in liver. Layton ME, et al. **J Surg Res** 1996 Jul 15;64(1):1-5
Age and gender differences in hepatic ascorbic acid concentrations and NADPH-dehydroascorbic acid reductase activity. Rikans LE, et al. **Mech Ageing Dev** 1996 Nov 13;91(3):165-9
Did the loss of endogenous ascorbate propel the evolution of Anthropoidea and Homo sapiens? Challem JJ. **Med Hypotheses** 1997 May;48(5):387-92 (52 ref.)
Ascorbate availability and neurodegeneration in amyotrophic lateral sclerosis. Kok AB. **Med Hypotheses** 1997 Apr; 48(4):281-96 (171 ref.)
In situ kinetics: an approach to recommended intake of vitamin C. Levine M, et al. **Methods Enzymol** 1997; 281:425-37
Ascorbate uptake by microvascular endothelial cells of rat skeletal muscle. Wilson JX, et al. **Microcirculation** 1996 Jun;3(2):211-21
Ascorbic acid-dependent activation of the osteocalcin promoter in MC3T3-E1 preosteoblasts: requirement for collagen matrix synthesis and the presence of an intact OSE2 sequence. Xiao G, et al. **Mol Endocrinol** 1997 Jul; 11(8):1103-13
Consequences of hypoxia on the cell size of neuropeptide-Y neurons and the role of ascorbate in cultured neurons from chick embryo. Sharma P. **Neurochem Int** 1997 Mar; 30(3):337-44
Concomitant in vivo electrophysiological and voltammetric analysis indicate that ascorbic acid is a biochemical index of early ischaemia. Crespi F. **Neurosci Lett** 1996 Sep 13; 215(3):189-92
Decreased absolute levels of ascorbic acid and unaltered vasoactive intestinal polypeptide receptor binding in the frontal cortex in acquired immunodeficiency syndrome. Everall IP, et al. **Neurosci Lett** 1997 Mar 14;224(2):119-22
Intracameral ascorbic acid, glutathione and protein levels in albino and pigmented rabbits. Numata K, et al. **Ophthalmic Res** 1995;27(6):347-9
Interactions between vitamin E homologues and ascorbate free radicals in murine skin homogenates irradiated with ultraviolet light. Kitazawa M, et al. **Photochem Photobiol** 1997 Feb;65(2):355-65
The role of retinal pigment epithelium melanin in photoinduced oxidation of ascorbate. Różanowska M, et al. **Photochem Photobiol** 1997 Mar;65(3):472-9
Adenohypophyseal ascorbic acid: influences of oestradiol and methylene blue. Haluzík M, et al. **Physiol Res** 1995; 44(5):333-5
The effects of selenium on the antioxidant defense system in the liver of rats exposed to cadmium. Ognjanović B, et al. **Physiol Res** 1995;44(5):293-300
The activities of superoxide dismutase, catalase and ascorbic acid content in the liver of goldfish (Carassius auratus gibelio Bloch.) exposed to cadmium. Zikič RV, et al. **Physiol Res** 1996;45(6):479-81
Moderate alcohol consumption and vitamin C status in the guinea-pig and the rat. Zloch Z, et al. **Physiol Res** 1995; 44(3):173-8
Cloning and expression of an Arabidopsis gene encoding a putative peroxisomal ascorbate peroxidase. Zhang H, et al. **Plant Mol Biol** 1997 Aug;34(6):967-71
Production of ascorbate and hydroxyl radicals in the liver of LEC rats in relation to hepatitis. Suzuki KT, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):137-46
Hypoxia depletes ascorbate in the cat carotid body. Pokorski M, et al. **Respir Physiol** 1997 Mar;107(3):213-8
Ascorbic acid transport and availability. Elmadfa I, et al. **Subcell Biochem** 1996;25:137-55 (52 ref.)
Ascorbic acid and prostaglandin synthesis. Horrobin DF. **Subcell Biochem** 1996;25:109-15 (29 ref.)

PHARMACOKINETICS

Pharmacokinetic study of ascorbic acid in sheep. Black WD, et al. **Can J Vet Res** 1996 Jul;60(3):216-21
Increased facilitated transport of dehydroascorbic acid without changes in sodium-dependent ascorbate transport in human melanoma cells. Spielholz C, et al. **Cancer Res** 1997 Jun 15;57(12):2529-37
Evaluation for intrinsic skin permeation of unstable compounds. Lee AR, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1621-3
Hormone induction of ascorbic acid transport in immature granulosa cells. Behrman HR, et al. **Endocrinology** 1996 Oct;137(10):4316-21
Bioavailability of vitamin C. Bates CJ. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S28-33 (55 ref.)
Effect of supplementation of smoking men with plain or slow release ascorbic acid on lipoprotein oxidation. Nyyssönen K, et al. **Eur J Clin Nutr** 1997 Mar;51(3):154-63
Ascorbic acid enhances hydroxyl radical formation in iron-fortified infant cereals and infant formulas. Almaas R, et al. **Eur J Pediatr** 1997 Jun;156(6):488-92
Ascorbyl-2-sulfate compared with ascorbic acid in Atlantic salmon: uptake and distribution confirmed by mass spectroscopy. Felton SP, et al. **Proc Soc Exp Biol Med** 1997 Jul;215(3):248-57
[An experimental study of the pharmacokinetics of a new pediatric drug form--Paravit tablets] Shapovalova VA. **Eksp Klin Farmakol** 1996 Nov-Dec;59(6):29-30 (Eng. Abstr.) **(Rus)**
[Paracetamol pharmacokinetics in the blood plasma of sexually immature rabbits with the use of the new Paravit preparation] Shapovalova VO. **Fiziol Zh** 1995 Sep-Dec; 41(5-6):57-60 (Eng. Abstr.) **(Ukr)**

PHARMACOLOGY

Effect of retinyl acetate, ascorbic acid and tocopherol supplementation of the feed on egg vitamin A content in Japanese quail. Bárdos L, et al. **Acta Vet Hung** 1996; 44(2):213-9
NF-kappa B-independent suppression of HIV expression by ascorbic acid. Harakeh S, et al. **AIDS Res Hum Retroviruses** 1997 Feb 10;13(3):235-9
Supplementation with vitamins C and E enhances cytokine production by peripheral blood mononuclear cells in healthy adults [see comments] Jeng KC, et al. **Am J Clin Nutr** 1996 Dec;64(6):960-5. Comment in: Am J Clin Nutr 1997 Jun;65(6):1899-901. Comment in: Am J Clin Nutr 1997 Jun;65(6):1901-3.
No effect of supplementation with vitamin E, ascorbic acid, or coenzyme Q10 on oxidative DNA damage estimated by 8-oxo-7,8-dihydro-2'-deoxyguanosine excretion in smokers. Priemé H, et al. **Am J Clin Nutr** 1997 Feb; 65(2):503-7
Jeng et al paper a disappointment [letter; comment] Santos MS, et al. **Am J Clin Nutr** 1997 Jun;65(6):1899-901. Comment on: Am J Clin Nutr 1996 Dec;64(6):960-5.
Effects of erythorbic acid on vitamin C metabolism in young women [see comments] Sauberlich HE, et al. **Am J Clin Nutr** 1996 Sep;64(3):336-46. Comment in: Am J Clin Nutr 1996 Sep;64(3):381-2.
Purine nucleotides and phospholipids in ischemic and reperfused rat skeletal muscle: effect of ascorbate. Lagerwall K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H83-90
L-ascorbic acid regulates growth and metabolism of renal cells: improvements in cell culture. Nowak G, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C2072-80
Dopamine requires ascorbic acid to be the prolactin release-inhibiting factor. Shin SH, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E593-8
Hematologic, hemostatic, and biochemical effects in dogs receiving an oral chondroprotective agent for thirty days. McNamara PS, et al. **Am J Vet Res** 1996 Sep;57(9):1390-4
Inhibition by L-ascorbic acid and other antioxidants of the 2,2'-azino-bis(3-ethylbenzthiazoline-6-sulfonic acid) oxidation catalyzed by peroxidase: a new approach for determining total antioxidant status of foods. Arnao MB, et al. **Anal Biochem** 1996 May 1;236(2):255-61
Ascorbic acid inhibits spinal meningeal catechol-o-methyl transferase in vitro, markedly increasing epinephrine bioavailability. Kern C, et al. **Anesthesiology** 1997 Feb; 86(2):405-9
Effect of ascorbate oxidase on radical intensity and cytotoxic activity of ascorbate. Sakagami H, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1163-6
Stimulation of ascorbate-induced hypoxia by lignin. Sakagami H, et al. **Anticancer Res** 1997 Mar-Apr; 17(2A):1213-6
Methionine oxidation and apoptosis induction by ascorbate, gallate and hydrogen peroxide. Sakagami H, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2565-70
Relationship between ascorbyl radical intensity and apoptosis-inducing activity. Sakagami H, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2635-44
Prooxidant action of two antioxidants: ascorbic acid and gallic acid. Sakagami H, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):221-4
Effect of metal ions on radical intensity and cytotoxic activity of ascorbate. Satoh K, et al. **Anticancer Res** 1997 Mar-Apr; 17(2A):1125-9
Ascorbate and alpha-tocopherol prevent apoptosis induced by serum removal independent of Bcl-2. Barroso MP, et al. **Arch Biochem Biophys** 1997 Jul 15;343(2):243-8
Mitochondrial ATP synthase: Fe2+-catalyzed fragmentation of the soluble F1-ATPase. Belogrudov GI. **Arch Biochem Biophys** 1996 Nov 1;335(1):131-8
Role of dehydroascorbate in rabbit erythrocyte hexokinase inactivation induced by ascorbic acid/Fe(II). Fiorani M, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):357-61
Hexokinase inactivation induced by ascorbic acid/Fe(II) in rabbit erythrocytes is independent of glutathione-reductive processes and appears to be mediated by dehydroascorbic acid. Fiorani M, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):191-6
Vitamin C inhibits random migration of malignant pleural effusion mononuclear cells. Prokić L, et al. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):87-91
Influence of vitamin C, vitamin E and beta-carotene on the osmotic fragility and the primary antioxidant system of erythrocytes in zinc-deficient rats. Kraus A, et al. **Arch Tierernahr** 1997;50(3):257-69
Vitamin C reduces cholesterol-induced microcirculatory changes in rabbits. Freyschuss A, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1178-84
Both intracellular and extracellular vitamin C inhibit atherogenic modification of LDL by human vascular endothelial cells. Martin A, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1583-90
Effect of ascorbate supplementation on low density lipoprotein oxidation in smokers. Fuller CJ, et al. **Atherosclerosis** 1996 Jan 26;119(2):139-50
Inhibition of rabbit muscle adenylate kinase by vitamin C. Russell PJ, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):386-8
Role of ascorbate in the activation of NF-kappaB by tumour necrosis factor-alpha in T-cells. Muñoz E, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):23-8
The effects of ascorbate and dehydroascorbate on the oxidation of low-density lipoprotein. Stait SE, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):373-81
Independent antioxidant action of vitamins E and C in cultured rat hepatocytes intoxicated with allyl alcohol. Glascott PA Jr, et al. **Biochem Pharmacol** 1996 Oct 25; 52(8):1245-52
Vitamin C inhibits NF kappa B activation in endothelial cells. Bowie A, et al. **Biochem Soc Trans** 1997 Feb;25(1):131S
Oxidative DNA damage in human cells: the influence of antioxidants and DNA repair. Collins AR, et al. **Biochem Soc Trans** 1997 Feb;25(1):326-31
An investigation of the radioprotective effect of dietary antioxidants on isolated murine lymphocytes. Galligan ES, et al. **Biochem Soc Trans** 1997 Feb;25(1):136S
Ascorbate promotes low density lipoprotein oxidation in the presence of ferritin. Dai L, et al. **Biochim Biophys Acta** 1996 Dec 13;1304(3):223-8
Comparative studies of enhanced iron-mediated production of hydroxyl radical by glutathione, cysteine, ascorbic acid, and selected catechols. Nappi AJ, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):295-302
Effect on free radical processes of some ascorbic acid analogues. Coudert P, et al. **Biol Pharm Bull** 1996 Feb; 19(2):220-3
Magnesium-mediated reversal of the apparent virucidal effect of ascorbic acid or congo red reacted in vitro with the human immunodeficiency virus. Rawal BD, et al. **Biologicals** 1996 Jun;24(2):113-6
A study on ascorbate inhibition of ceruloplasmin ferroxidase activity. Løvstad RA. **Biometals** 1997 Apr;10(2):123-6
The effect of pharmacological supplementation with vitamin C on low-density lipoprotein oxidation. Wen Y, et al.

Br J Clin Pharmacol 1997 Jul;44(1):94–7
Vitamin C supplementation and fear-reduction in Japanese quail: short-term cumulative effects. Jones RB, et al. **Br Poult Sci** 1996 Mar;37(1):33–42
Ascorbate attenuates the systemic kainate-induced neurotoxicity in the rat hippocampus. MacGregor DG, et al. **Brain Res** 1996 Jul 15;727(1–2):133–44
Contribution of plasma membrane and endoplasmic reticulum Ca(2+)-ATPases to the synaptosomal [Ca2+]i increase during oxidative stress. Pereira C, et al. **Brain Res** 1996 Mar 25;713(1–2):269–77
Ascorbic acid augments the adenylyl cyclase-cAMP system mediated POMC mRNA expression and beta-endorphin secretion from hypothalamic neurons in culture. Yang Z, et al. **Brain Res** 1996 Jan 15;706(2):243–8
Age-related response of human dermal fibroblasts to L-ascorbic acid: study of type I and III collagen synthesis. Dumas M, et al. **C R Acad Sci III** 1996 Dec;319(12):1127–32
Increased turnover of small proteoglycans synthesized by human osteoblasts during cultivation with ascorbate and beta-glycerophosphate. Blumberg P, et al. **Calcif Tissue Int** 1997 Jun;60(6):554–60
Ascorbate increases the 1,25 dihydroxyvitamin D3-induced monocytic differentiation of HL-60 cells. Quesada JM, et al. **Calcif Tissue Int** 1996 Oct;59(4):277–82
A clinical trial to evaluate the effect of vitamin C supplementation on in vitro mutagen sensitivity. The University of Texas M. D. Anderson Clinical Community Oncology Program Network. King TM, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):537–42
Retinol, ascorbic acid and alpha-tocopherol prevent DNA adduct formation in mice treated with the mycotoxins ochratoxin A and zearalenone. Grosse Y, et al. **Cancer Lett** 1997 Mar 19;114(1–2):225–9
Ascorbic acid and beta-carotene as modulators of oxidative damage. Cozzi R, et al. **Carcinogenesis** 1997 Jan;18(1):223–8
Synergistic antitumour activity of vitamins C and K3 against human prostate carcinoma cell lines. Venugopal M, et al. **Cell Biol Int** 1996 Dec;20(12):787–97
Nitroxide reduction with ascorbic acid in spin labeled human plasma LDL and VLDL. Kveder M, et al. **Chem Phys Lipids** 1997 Jan 17;85(1):1–12
Influence of maternal nicotine exposure on neonatal rat lung structure: protective effect of ascorbic acid. Maritz GS, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):159–65
High glucose inhibits effect of ascorbic acid on [35S] sulphate incorporation in mesangial cell and matrix proteoglycan. McAuliffe AV, et al. **Diabetes Res Clin Pract** 1997 Aug; 37(2):101–8
Ascorbic acid alters collagen integrins in bone culture. Ganta DR, et al. **Endocrinology** 1997 Sep;138(9):3606–12
The effects of sulfur dioxide inhalation and antioxidant vitamins on red blood cell lipoperoxidation. Etlik O, et al. **Environ Res** 1995 Oct;71(1):25–8
Bilirubin oxidation provoked by endotoxin treatment is suppressed by feeding ascorbic acid in a rat mutant unable to synthesize ascorbic acid. Yamaguchi T, et al. **Eur J Biochem** 1997 Apr 15;245(2):233–40
Inhibition by vitamins C and E of in vivo nitrosation and vitamin C occurrence in the stomach. Mirvish SS. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:131–6 (37 ref.)
The effect of ascorbic acid on plasma lipids and oxidisability of LDL in male smokers. Samman S, et al. **Eur J Clin Nutr** 1997 Jul;51(7):472–7
Vitamin C and E prevent lipopolysaccharide-induced apoptosis in human endothelial cells by modulation of Bcl-2 and Bax. Haendeler J, et al. **Eur J Pharmacol** 1996 Dec 19;317(2–3):407–11
The effect of vitamin C and vitamin E supplementation on bacterial translocation in chronic portal hypertensive and common-bile-duct-ligated rats. Schimpl G, et al. **Eur Surg Res** 1997;29(3):187–94
Can the wound healing process be improved by vitamin supplementation? Experimental study on humans. Vaxman F, et al. **Eur Surg Res** 1996 Jul-Aug;28(4):306–14
Mechanisms by which ascorbic acid increases ferritin levels in cultured lens epithelial cells. Goralska M, et al. **Exp Eye Res** 1997 Mar;64(3):413–21
Phytoalexin production elicited by exogenously applied jasmonic acid in rice leaves (Oryza sativa L.) is under the control of cytokinins and ascorbic acid. Tamogami S, et al. **FEBS Lett** 1997 Jul 21;412(1):61–4
Cupric ion/ascorbate/hydrogen peroxide-induced DNA damage: DNA-bound copper ion primarily induces base modifications. Drouin R, et al. **Free Radic Biol Med** 1996; 21(3):261–73
On the molecular mechanism of metmyoglobin-catalyzed reduction of hydrogen peroxide by ascorbate. Galaris D, et al. **Free Radic Biol Med** 1997;22(4):657–67
Ascorbyl radical formation in patients with sepsis: effect of ascorbate loading. Galley HF, et al. **Free Radic Biol Med** 1996;20(1):139–43
The effect of ascorbate and ubiquinone supplementation on plasma and CSF total antioxidant capacity. Lönnrot K, et al. **Free Radic Biol Med** 1996;21(2):211–7
Effect on an iron-chelator on ascorbate-induced cytotoxicity. Sakagami H, et al. **Free Radic Biol Med** 1997; 23(2):260–70
Peroxynitrite-induced apoptosis in T84 and RAW 264.7 cells: attenuation by L-ascorbic acid. Sandoval M, et al. **Free Radic Biol Med** 1997;22(3):489–95
Role of ascorbate and protein thiols in the release of nitric oxide from S-nitroso-albumin and S-nitroso-glutathione in human plasma. Scorza G, et al. **Free Radic Biol Med** 1997;22(4):633–42
Quercetin protects cutaneous tissue-associated cell types including sensory neurons from oxidative stress induced by glutathione depletion: cooperative effects of ascorbic acid. Skaper SD, et al. **Free Radic Biol Med** 1997; 22(4):669–78
Metal-catalyzed oxidation and cleavage of octopus glutathione transferase by the Cu(II)-ascorbate system. Tang SS, et al. **Free Radic Biol Med** 1996;21(7):955–64
Effects of co-supplementation of iron with ascorbic acid on antioxidant—pro-oxidant balance in the guinea pig. Collis CS, et al. **Free Radic Res** 1997 Jul;27(1):113–21
The effects of ascorbic acid and iron co-supplementation on the proliferation of 3T3 fibroblasts. Collis CS, et al. **Free Radic Res** 1996 Jul;25(1):87–93
Vitamin C: antioxidant or pro-oxidant in vivo? Halliwell B. **Free Radic Res** 1996 Nov;25(5):439–54 (182 ref.)
Ascorbic acid inhibits lipid peroxidation but enhances DNA damage in rat liver nuclei incubated with iron ions. Hu ML, et al. **Free Radic Res** 1997 Jun;26(6):585–92
Protection against peroxynitrite-dependent tyrosine nitration and alpha 1-antiproteinase inactivation by ascorbic acid. A comparison with other biological antioxidants. Whiteman M, et al. **Free Radic Res** 1996 Sep;25(3):275–83
Adaptation to ozone in rats and its association with ascorbic acid in the lung. Wiester MJ, et al. **Fundam Appl Toxicol** 1996 May;31(1):56–64
The mechanism of the relaxing effect of ascorbic acid in guinea pig isolated tracheal muscle. Sipahi E, et al. **Gen Pharmacol** 1997 May;28(5):757–60
Enhancement of natural killer cell activity and T and B cell function by buffered vitamin C in patients exposed to toxic chemicals: the role of protein kinase-C. Heuser G, et al. **Immunopharmacol Immunotoxicol** 1997 Aug;19(3):291–312
Intraperitoneal administration of ascorbic acid delays the turnover of 3H-labelled cortisol in the plasma of an ODS rat, but not in the Wistar rat. Evidence in support of the cardinal role of vitamin C in the progression of glucocorticoid synthesis. Kodama M, et al. **In Vivo** 1996 Jan-Feb;10(1):97–102
Anticlastogenicity of vitamin C in vivo against the cytogenetic toxicity of muriate of potash in murine bone marrow cells. Sinha AK, et al. **In Vivo** 1996 Jan-Feb; 10(1):111–2
The effect of 2,4-dichlorophenol on lipid peroxidation in tissues of guinea pigs with different ascorbic acid intake. Clerhata D, et al. **Ind Health** 1996;34(4):415–9
Effect of ascorbic acid on in vitro synthesis of testosterone in rat testis. Biswas NM, et al. **Indian J Exp Biol** 1996 Jun;34(6):612–3
Investigation of ascorbate-Cu (II) induced cleavage of DNA by scanning tunneling microscopy. Zareie MH, et al. **Int J Biol Macromol** 1996 Jul;19(1):69–73
Exercise-induced oxidative stress before and after vitamin C supplementation. Alessio HM, et al. **Int J Sport Nutr** 1997 Mar;7(1):1–9
Influence of ascorbic acid on the response to mitogens and interleukin production of porcine lymphocytes. Schwager J, et al. **Int J Vitam Nutr Res** 1997;67(1):10–6
Cigarette smoking is associated with increased human monocyte adhesion to endothelial cells: reversibility with oral L-arginine but not vitamin C. Adams MR, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):491–7
Effect of vitamin C concentration and co-injection with calcium chloride on beef retail display color. Wheeler TL, et al. **J Anim Sci** 1996 Aug;74(8):1846–53
Differential effect of alpha-tocopherol and ascorbate on oxidative injury induced in immune cells by thermal stress. Franci O, et al. **J Biol Regul Homeost Agents** 1996 Apr-Sep;10(2–3):54–9
Rapid chondrocyte maturation by serum-free culture with BMP-2 and ascorbic acid. Leboy PS, et al. **J Cell Biochem** 1997 Sep 1;66(3):394–403
Vitamin C blocks inflammatory platelet-activating factor mimetics created by cigarette smoking [see comments] Lehr HA, et al. **J Clin Invest** 1997 May 15;99(10):2358–64. Comment in: J Clin Invest 1997 May 15;99(10):2300–1.
Regulations of collagen synthesis by ascorbic acid, transforming growth factor-beta and interferon-gamma in human dermal fibroblasts cultured in three-dimensional collagen gel are photoaging- and aging-independent. Chung JH, et al. **J Dermatol Sci** 1997 Sep;15(3):188–200
Ascorbic acid reduces tropoelastin levels in culture medium of chick skin fibroblasts. Hayashi A, et al. **J Dermatol Sci** 1996 Feb;11(2):161–6
Effects of vitamins E, C and catalase on bromobenzene- and hydrogen peroxide-induced intracellular oxidation and DNA single-strand breakage in Hep G2 cells. Wu J, et al. **J Hepatol** 1997 Mar;26(3):669–77
The formation of competent barrier lipids in reconstructed human epidermis requires the presence of vitamin C. Ponec M, et al. **J Invest Dermatol** 1997 Sep;109(3):348–55
L-ascorbic acid inhibits UVA-induced lipid peroxidation and secretion of IL-1alpha and IL-6 in cultured human keratinocytes in vitro. Tebbe B, et al. **J Invest Dermatol** 1997 Mar;108(3):302–6
Inhibition of glutamate transport in synaptosomes by dopamine oxidation and reactive oxygen species. Berman SB, et al. **J Neurochem** 1997 Sep;69(3):1185–95
Vitamin C nutriture has little short-term effect on vitamin E concentrations in healthy women. Jacob RA, et al. **J Nutr** 1996 Sep;126(9):2268–77
Supplementation with vitamin C, vitamin E or beta-carotene influences osmotic fragility and oxidative damage of erythrocytes of zinc-deficient rats. Kraus A, et al. **J Nutr** 1997 Jul;127(7):1290–6
Milk inhibits and ascorbic acid favors ferrous bis-glycine chelate bioavailability in humans. Olivares M, et al. **J Nutr** 1997 Jul;127(7):1407–11
Vitamin C supplementation does not modify bone mineral content or mineral absorption in growing pigs. Pointillart A, et al. **J Nutr** 1997 Aug;127(8):1514–8
Effect of high concentration of ascorbate on catalase activity in cultured cells and tissues of guinea pigs. Nemoto S, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Jun;43(3):297–309
Nitrite-induced photo-oxidation of thiol and its implications in smog toxicity to the eye: prevention by ascorbate. Varma SD, et al. **J Ocul Pharmacol Ther** 1997 Apr;13(2):179–87
Activation of the ATP.Mg-dependent type 1 protein phosphatase by the Fe2+/ascorbate system. Yu JS, et al. **J Protein Chem** 1996 Jul;15(5):455–60
Effect of preoperative supplementation with alpha-tocopherol and ascorbic acid on myocardial injury in patients undergoing cardiac operations. Westhuyzen J, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):942–8
Effect of vitamin C in modulating the hypothermic influence on nerve conduction. Panjwani U, et al. **Jpn J Physiol** 1996 Oct;46(5):397–402
Synergistic antitumor activity of vitamins C and K3 on human urologic tumor cell lines. Venugopal M, et al. **Life Sci** 1996;59(17):1389–400
Nerve growth factor enhances antigen-specific antibody production in ascorbate-stimulated murine splenocytes. Yanagida M, et al. **Life Sci** 1996;59(24):2075–81
Effect of physical exercise and vitamin C on absorption of ferric sodium citrate. Schmid A, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):1470–3
NADPH-initiated cytochrome P450-dependent free iron-independent microsomal lipid peroxidation: specific prevention by ascorbic acid. Ghosh MK, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):35–44
In vitro influence of ascorbate on lipid peroxidation in rat testis and heart microsomes. Melin AM, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):171–6
Synergistic effect of BMP-2 and ascorbate on the phenotypic expression of osteoblastic MC3T3-E1 cells. Torii Y, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):25–9
Ascorbate induction of collagen synthesis as a means for elucidating a mechanism of quantitative control of tissue-specific function. Schwarz RI, et al. **Mol Cell Biol** 1981 Sep;1(9):843–53
Ascorbic acid and 6-deoxy-6-chloro-ascorbic acid: potential anticancer drugs. Osmak M, et al. **Neoplasma** 1997; 44(2):101–7
Amelioration of oxidative stress by antioxidants and resveratrol in PC12 cells. Chanvitayapongs S, et al. **Neuroreport** 1997 Apr 14;8(6):1499–502
Intracellular free Na+ concentration increases in cultured retinal cells under oxidative stress conditions. Agostinho P, et al. **Neurosci Res** 1996 Aug;25(4):343–51
Effect of antioxidant vitamin supplementation on DNA damage and repair in human lymphoblastoid cells. Sweetman SF, et al. **Nutr Cancer** 1997;27(2):122–30
The effect of ascorbic acid on human T cells [letter; comment] González MJ, et al. **P R Health Sci J** 1996 Dec; 15(4):309–10. Comment on: P R Health Sci J 1996 Mar;15(1):21–6.
Maternal infusion of antioxidants (Trolox and ascorbic acid) protects the fetal heart in rabbit fetal hypoxia. Tan S, et al. **Pediatr Res** 1996 Mar;39(3):499–503
The influence of ascorbic acid on the hepatic cytochrome P-450, and glutathione in guinea-pigs exposed to 2,4-dichlorophenol. Nagyová A, et al. **Physiol Res** 1995; 44(5):301–5
Ultrastructural studies of daunorubicin hepatotoxicity in rats including protective effects of tocopherol and ascorbic acid. Chibowska I, et al. **Pol J Pathol** 1996;47(3):119–26
Influence of vitamins E and C on the toxic effects of ochratoxin A and T-2 toxin in chicks. Hoehler D, et al. **Poult Sci** 1996 Dec;75(12):1508–15
The effect of different levels of vitamin C and cholecalciferol with adequate or marginal levels of dietary calcium on performance and eggshell quality of laying hens. Keshavarz K. **Poult Sci** 1996 Oct;75(10):1227–35
Effect of ascorbic acid and cooling during egg incubation on hatchability, culling, mortality, and the body weights of broiler chickens. Zakaria AH, et al. **Poult Sci** 1996 Oct; 75(10):1204–9
Effect of vitamin C on prostate cancer cells in vitro: effect on cell number, viability, and DNA synthesis. Maramag C, et al. **Prostate** 1997 Aug 1;32(3):188–95
Oxygen free radical scavenging abilities of vitamins C and E, and a grape seed proanthocyanidin extract in vitro. Bagchi D, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):179–89
Antioxidant effects of vitamin C in mice following X-irradiation. Harapanhalli RS, et al. **Res Commun Mol Pathol Pharmacol** 1996 Dec;94(3):271–87
Protective effects of trolox C, vitamin C, and catalase on bromobenzene-induced damage to rat hepatocytes. Wu J,

et al. **Scand J Gastroenterol** 1996 Aug;31(8):797–803

No evidence for a protective effect of ascorbic acid on free radical generation and liver injury after hemorrhagic shock in rats. Minor T, et al. **Shock** 1996 Apr;5(4):280–3

Role of ascorbic acid in modulation of gene expression. Hitomi K, et al. **Subcell Biochem** 1996;25:41–56 (60 ref.)

Ascorbic acid and diabetes mellitus. Hunt JV. **Subcell Biochem** 1996;25:369–405 (164 ref.)

Antiviral and immunomodulatory activities of ascorbic acid. Jariwalla RJ, et al. **Subcell Biochem** 1996;25:213–31 (92 ref.)

The antihistamine action of ascorbic acid. Johnston CS. **Subcell Biochem** 1996;25:189–213 (157 ref.)

Protective effects of ascorbic acid against radiation-induced clastogenesis. Kesavan PC, et al. **Subcell Biochem** 1996; 25:407–21 (79 ref.)

Ascorbic acid and atherosclerotic cardiovascular disease. Lynch SM, et al. **Subcell Biochem** 1996;25:331–67 (165 ref.)

Ascorbic acid. Protection of lung tissue against damage. Maritz GS. **Subcell Biochem** 1996;25:265–91 (125 ref.)

Ascorbic acid and connective tissue. Ronchetti IP, et al. **Subcell Biochem** 1996;25:249–64 (94 ref.)

Ascorbic acid and cancer. Shklar G, et al. **Subcell Biochem** 1996;25:233–47 (33 ref.)

Ascorbic acid protects guinea pigs from acute aflatoxin toxicity. Netke SP, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):429–35

Renal cell regeneration following oxidant exposure: inhibition by TGF-beta1 and stimulation by ascorbic acid. Nowak G, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):175–83

Effect of vitamin C supplementation on hepatic cytochrome P450 mixed-function oxidase activity in streptozotocin-diabetic rats. Clarke J, et al. **Toxicol Lett** 1996 Dec 31;89(3):249–56

Ascorbic acid prevents ischemia–reperfusion injury in the rat small intestine. Nakamura M, et al. **Transpl Int** 1997; 10(2):89–95

Postprandial hyperinsulinaemia, insulin resistance and inappropriately high phosphaturia are features of younger males with idiopathic calcium urolithiasis: attenuation by ascorbic acid supplementation of a test meal. Schwille PO, et al. **Urol Res** 1997;25(1):49–58

[Bioavailability of cadmium: effect of vitamin C and phytase in broiler chickens] Rambeck WA, et al. **Tierarztl Prax** 1996 Oct;24(5):467–70 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Quenching of UV-induced fluorescence by ascorbic acid in the aqueous humour. Ringvold A. **Acta Ophthalmol Scand** 1995 Dec;73(6):529–33

Studies on the essential role of ascorbic acid in the energy dependent release of insulin from pancreatic islets. Dou C, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):820–2

Lack of involvement of glutamate-induced excitotoxicity in MPP+ toxicity in striatal dopaminergic terminals: possible involvement of ascorbate. Matarredona ER, et al. **Br J Pharmacol** 1997 Jul;121(5):1038–44

Antioxidant defense: vitamins E and C and carotenoids. Stahl W, et al. **Diabetes** 1997 Sep;46 Suppl 2:S14–8

Ascorbate and alpha–tocopherol depletion inhibit aldosterone stimulation by sodium deficiency in the guinea pig. Bähr V, et al. **Endocr Res** 1996 Nov;22(4):595–600

Vitamin C, neutrophil function, and upper respiratory tract infection risk in distance runners: the missing link. Peters-Futre EM. **Exerc Immunol Rev** 1997;3:32–52 (99 ref.)

Vitamin C prevents oxidative damage. Ghosh MK, et al. **Free Radic Res** 1996 Aug;25(2):173–9

Ascorbate differentially regulates elastin and collagen biosynthesis in vascular smooth muscle cells and skin fibroblasts by pretranslational mechanisms. Davidson JM, et al. **J Biol Chem** 1997 Jan 3;272(1):345–52

The antioxidant function of the physiological content of vitamin C. Glascott PA Jr, et al. **Mol Pharmacol** 1996 Oct; 50(4):994–9

Does diabetes mellitus increase the requirement for vitamin C? Will JC, et al. **Nutr Rev** 1996 Jul;54(7):193–202 (77 ref.)

Ascorbic acid and aging. Barja G. **Subcell Biochem** 1996; 25:157–88 (196 ref.)

Ascorbic acid, cell proliferation, and cell differentiation in culture. Brigelius-Flohé R, et al. **Subcell Biochem** 1996; 25:83–107 (130 ref.)

Ascorbic acid and the eye. Delamere NA. **Subcell Biochem** 1996;25:313–29 (88 ref.)

Ascorbic acid transport and availability. Elmadfa I, et al. **Subcell Biochem** 1996;25:137–55 (52 ref.)

Vitamin C and nervous tissue. In vivo and in vitro aspects. Katsuki H. **Subcell Biochem** 1996;25:293–311 (133 ref.)

Ascorbate and the plasma membrane. A new view of cell growth control. Villalba JM, et al. **Subcell Biochem** 1996; 25:57–8 (146 ref.)

SECRETION

Evidence for the involvement of a muscarinic receptor in ascorbic acid secretion in the rat stomach. Muto N, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):553–9

STANDARDS

Ascorbic acid: hype, hoax, or healer? [editorial; comment] Halliwell B. **Am J Clin Nutr** 1997 Jun;65(6):1891–2. Comment on: Am J Clin Nutr 1997 Jun;65(6):1858–66.

[The Ascorbic Acid Reference Standard (Control 931) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):183–4 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Effectiveness of antioxidants (vitamin C and E) with and without sunscreens as topical photoprotectants. Darr D, et al. **Acta Derm Venereol** 1996 Jul;76(4):264–8

Reversal of fluorosis in children. Gupta SK, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):513–9

Possible prevention of postangioplasty restenosis by ascorbic acid. Tomoda H, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1284–6

Vitamin C for paroxetine- and fluvoxamine-associated bleeding [letter] Tielens JA. **Am J Psychiatry** 1997 Jun; 154(6):883–4

Does dietary intake of vitamins C and E influence lung function in older people? Dow L, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1401–4

Anti-oxidant treatment for shock: vitamin E but not vitamin C improves survival. Daughters K, et al. **Am Surg** 1996 Oct;62(10):789–92

Effect of micronutrient supplementation on infection in institutionalized elderly subjects: a controlled trial. Girodon F, et al. **Ann Nutr Metab** 1997;41(2):98–107

Potentiation of an antimalarial oxidant drug. Winter RW, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1449–54

Blocking effect of vitamin C in exercise-induced asthma. Cohen HA, et al. **Arch Pediatr Adolesc Med** 1997 Apr; 151(4):367–70

Antioxidants in the treatment of severe pre-eclampsia: an explanatory randomised controlled trial. Gülmezoğlu AM, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):689–96

Myositis ossificans progressive. Palhares DB. **Calcif Tissue Int** 1997 Apr;60(4):394

Antioxidant vitamins and stomach cancer: the role of ecologic studies. Kromhout D, et al. **Cancer Lett** 1997 Mar 19;114(1–2):333–4

Randomized, controlled trial of antioxidant vitamins and cardioprotective diet on hyperlipidemia, oxidative stress, and development of experimental atherosclerosis: the diet and antioxidant trial on atherosclerosis (DATA). Singh RB, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):763–71

Effect of supplementary antioxidant vitamin intake on carotid arterial wall intima–media thickness in a controlled clinical trial of cholesterol lowering. Azen SP, et al. **Circulation** 1996 Nov 15;94(10):2369–72

Antioxidant vitamin C improves endothelial dysfunction in chronic smokers. Heitzer T, et al. **Circulation** 1996 Jul 1; 94(1):6–9

Modulation of oxidant stress in vivo in chronic cigarette smokers. Reilly M, et al. **Circulation** 1996 Jul 1;94(1):19–25

Vitamin C improves endothelial dysfunction of epicardial coronary arteries in hypertensive patients. Solzbach U, et al. **Circulation** 1997 Sep 2;96(5):1513–9

Vitamin C improves endothelium-dependent vasodilation in forearm resistance vessels of humans with hypercholesterolemia. Ting HH, et al. **Circulation** 1997 Jun 17;95(12):2617–22

Topical vitamin C in aging. Colven RM, et al. **Clin Dermatol** 1996 Mar-Apr;14(2):227–34 (58 ref.)

The role of ascorbic acid and xylitol in etomidate-induced adrenocortical suppression in humans. Schraag S, et al. **Eur J Anaesthesiol** 1996 Jul;13(4):346–51

The effect of vitamin C on the hamster cheek pouch treated with the water soluble carcinogen 4-nitroquinoline-1-oxide (4NQO). Kandarkar SV, et al. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):230–7

Vitamin C and gastric cancer: supplements for some or fruit for all? O'Toole P, et al. **Gut** 1996 Sep;39(3):345–7 (54 ref.)

Is it time to say yes to antioxidants? Kuritzky L. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):96, 99–100 (12 ref.)

The ability of bile to scavenge superoxide radicals and pigment gallstone formation in guinea pigs. Lin C, et al. **HPB Surg** 1996;10(2):73–6; discussion 76–7

The value of the dehydroepiandrosterone-annexed vitamin C infusion treatment in the clinical control of chronic fatigue syndrome (CFS). I. A Pilot study of the new vitamin C infusion treatment with a volunteer CFS patient. Kodama M, et al. **In Vivo** 1996 Nov-Dec;10(6):575–84

The value of the dehydroepiandrosterone-annexed vitamin C infusion treatment in the clinical control of chronic fatigue syndrome (CFS). II. Characterization of CFS patients with special reference to their response to a new vitamin C infusion treatment. Kodama M, et al. **In Vivo** 1996 Nov-Dec;10(6):585–96

Vitamin C and common cold incidence: a review of studies with subjects under heavy physical stress. Hemilä H. **Int J Sports Med** 1996 Jul;17(5):379–83

The effect of antioxidant vitamin supplementation on traditional cardiovascular risk factors. Miller ER 3rd, et al. **J Cardiovasc Risk** 1997 Feb;4(1):19–24

Vitamin C, the placebo effect, and the common cold: a case study of how preconceptions influence the analysis of results. Hemilä H. **J Clin Epidemiol** 1996 Oct; 49(10):1079–84; discussion 1085, 1087

Vitamin C abrogates the deleterious effects of UVB radiation on cutaneous immunity by a mechanism that does not depend on TNF-alpha. Nakamura T, et al. **J Invest Dermatol** 1997 Jul;109(1):20–4

Acid-induced gastric damage in rats is aggravated by starvation and prevented by several nutrients. Hung CR, et al. **J Nutr** 1997 Apr;127(4):630–6

Probucol and multivitamins in the prevention of restenosis after coronary angioplasty. Multivitamins and Probucol Study Group [see comments] Tardif JC, et al. **N Engl J Med** 1997 Aug 7;337(6):365–72. Comment in: N Engl J Med 1997 Aug 7;337(6):418–9.

Vitamin C supplementation and common cold symptoms: problems with inaccurate reviews. Hemilä H. **Nutrition** 1996 Nov-Dec;12(11–12):804–9 (69 ref.)

Update on dietary antioxidants and cancer. Gaziano JM, et al. **Pathol Biol (Paris)** 1996 Jan;44(1):42–5 (15 ref.)

Alternative therapy for colds [letter] Turow V. **Pediatrics** 1997 Aug;100(2 Pt 1):274–5

Vitamin C intake and cardiovascular disease risk factors in persons with non-insulin-dependent diabetes mellitus. From the Insulin Resistance Atherosclerosis Study and the San Luis Valley Diabetes Study. Mayer-Davis EJ, et al. **Prev Med** 1997 May-Jun;26(3):277–83

Chemoprevention of colorectal tumors: role of lactulose and of other agents. Ponz de Leon M, et al. **Scand J Gastroenterol Suppl** 1997;222:72–5

Simulated bleeding--a forgotten disease in a land of plenty. Lim KH, et al. **Singapore Med J** 1996 Apr;37(2):157–9

The possible value of ascorbic acid as a prophylactic agent for urinary tract infection. Castelló T, et al. **Spinal Cord** 1996 Oct;34(10):592–3

Effect of dietary vitamin C on compression injury of the spinal cord in a rat mutant unable to synthesize ascorbic acid and its correlation with that of vitamin E. Katoh D, et al. **Spinal Cord** 1996 Apr;34(4):234–8

The effectiveness of ascorbic acid in the prevention of calf neonatal diarrhoea. Seifi HA, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):189–91

[The molecular, cellular and systemic mechanisms of the radioprotective action of multivitamin antioxidant complexes] Riabchenko NI, et al. **Radiats Biol Radioecol** 1996 Nov-Dec;36(6):895–9 (Eng. Abstr.) **(Rus)**

[Pathogenetic validation of optimal antioxidant therapy in suppurative inflammatory otic diseases in children] Karabaev KE, et al. **Vestn Otorinolaringol** 1997;(1):5–7 (Eng. Abstr.) **(Rus)**

TOXICITY

Effect of copper and iron ions on cytotoxicity induced by ascorbate, gallate and caffeate. Satoh K, et al. **Anticancer Res** 1997 May-Jun;17(3C):2181–4

Quantitative trait loci associated with promoting effects of sodium L-ascorbate on two-stage bladder carcinogenesis in rats. Kamoto T, et al. **Jpn J Cancer Res** 1997 Jul; 88(7):633–8

Strain differences in sensitivity to the promoting effect of sodium L-ascorbate in a two-stage rat urinary bladder carcinogenesis model. Murai T, et al. **Jpn J Cancer Res** 1997 Mar;88(3):245–53

Dose-dependent amplification by L-ascorbic acid of NaHCO3 promotion of rat urinary bladder carcinogenesis. Iwata H, et al. **Toxicol Pathol** 1997 May-Jun;25(3):284–90

ASCORBIC ACID DEFICIENCY

see related

SCURVY

Use of a new vitamin C-deficient diet in a depletion/repletion clinical trial. King J, et al. **Am J Clin Nutr** 1997 May; 65(5):1434–40

The BMJ's Nuremberg issue. Nobody died during experiments on vitamin C and vitamin A intakes in Sheffield [letter; comment] [see comments] Pemberton J. **BMJ** 1997 Feb 8;314(7078):440. Comment on: BMJ 1996 Dec 7;313(7070):1467–70. Comment in: BMJ 1997 Apr 12;314(7087):1128.

BLOOD

Effect of ascorbic acid deficiency on plasma prothrombin time and partial thromboplastin time in guinea pigs [letter] Roomi MW, et al. **Clin Chim Acta** 1996 Apr 30; 248(2):209–11

Vitamin C depletion is associated with alterations in blood histamine and plasma free carnitine in adults. Johnston CS, et al. **J Am Coll Nutr** 1996 Dec;15(6):586–91

COMPLICATIONS

Anemia related to ascorbic acid deficiency [letter] Ural AU. **Am J Hematol** 1997 Sep;56(1):69

Vitamin C deficiency and risk of myocardial infarction: prospective population study of men from eastern Finland. Nyyssönen K, et al. **BMJ** 1997 Mar 1;314(7081):634–8

Ascorbic acid deficiency in porphyria cutanea tarda. Sinclair PR, et al. **J Lab Clin Med** 1997 Aug;130(2):197–201

[Vitamin C deficiency and hemorrhagic syndrome (letter)] Rodríguez Cuartero A. **Rev Clin Esp** 1996 Aug;196(8):570 **(Spa)**

ENZYMOLOGY

Ascorbic acid deficiency decreases the expression of CYP4A1 in liver microsomes of guinea pigs. Roomi MW, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan; 95(1):3–10

GENETICS

Effect of dietary paraquat on a rat mutant unable to synthesize ascorbic acid [letter] Minakata K, et al. **Arch Toxicol** 1996;70(3–4):256–8

Ascorbic acid deficiency reduces hepatic apolipoprotein A–I mRNA in scurvy–prone ODS rats. Ikeda S, et al. **J Nutr** 1996 Oct;126(10):2505–11

HISTORY

[Correlations between cribra orbitalia, archeometric findings on the skeleton and habitat conditions] Schutkowski H, et al. **Anthropol Anz** 1997 Jun;55(2):155–66 (Eng. Abstr.) **(Ger)**

METABOLISM

Antioxidants in bronchoalveolar lavage fluid cells isolated from ozone–-exposed normal and ascorbate–deficient guinea pigs. Kodavanti UP, et al. **Exp Lung Res** 1996 Jul–Aug;22(4):435–48

Vitamin C prevents oxidative damage. Ghosh MK, et al. **Free Radic Res** 1996 Aug;25(2):173–9

Less induced 1–methyl–4–phenylpyridinium ion neurotoxicity on striatal slices from guinea–pigs fed with a vitamin C–deficient diet. Revuelta M, et al. **Neuroscience** 1997 Mar;77(1):167–74

Interaction of iron with other nutrients. Lynch SR. **Nutr Rev** 1997 Apr;55(4):102–10 (92 ref.)

PATHOLOGY

[Etiology of the cribra orbitalia: effect of amino acid profile in bone collagen and the iron content of bone minerals] Grupe G. **Z Morphol Anthropol** 1995 Dec;81(1):125–37 (Eng. Abstr.) **(Ger)**

THERAPY

Multilocational hepatocyte transplantation for treatment of congenital ascorbic acid deficiency rats. Nakazawa F, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S23–5

Functional assessment of proliferating hepatocytes stimulated by hepatic stimulatory substance in ascorbic acid biosynthetic enzyme–deficient rats. Nakazawa F, et al. **Hepatology** 1997 Aug;26(2):437–43

ASCORBINO DEHYDROGENASE see **ASCORBATE OXIDASE**

ASEPSIS

Central venous catheter infections [letter; comment] Bach A. **Intensive Care Med** 1996 Jun;22(6):613. Comment on: Intensive Care Med 1995 Feb;21(2):177–83.

Sterile operating conditions for the placement of intraoral implants. Friberg B. **J Oral Maxillofac Surg** 1996 Nov; 54(11):1334–6 (22 ref.)

Clean operating conditions for the placement of intraoral implants. Kraut RA. **J Oral Maxillofac Surg** 1996 Nov; 54(11):1337–8 (22 ref.)

Space, sterility and surgery: circuits of hygiene in the operating theatre. Fox NJ. **Soc Sci Med** 1997 Sep; 45(5):649–57

METHODS

Asepsis in ophthalmic operating room. Sharma S, et al. **Indian J Ophthalmol** 1996 Sep;44(3):173–7 (6 ref.)

Barrier technology for TPN compounding; advantages and limitations. Lee MG. **Nutrition** 1997 Mar;13(3):245–6

Evaluation of skin bacterial flora before and after aseptic preparation of clipped and nonclipped arthrocentesis sites in horses. Hague BA, et al. **Vet Surg** 1997 Mar–Apr; 26(2):121–5

STANDARDS

Cannulating central venous access devices. Menonna–Quinn D, et al. **Am J Nurs** 1997 Aug;97(8):22

Proposed recommended practices for establishing and maintaining a sterile field. Association of Operating Room Nurses. **AORN J** 1996 Jan;63(1):211–7

Recommended practices for maintaining a sterile field. Association of Operating Room Nurses. **AORN J** 1996 Nov;64(5):817–21

ASIALIA see **XEROSTOMIA**

ASIALOGANGLIOSIDES see **GLYCOSPHINGOLIPIDS**

ASIALOGLYCOPROTEINS

Receptor–mediated transfer of pSV2CAT DNA to mouse liver cells using asialofetuin–labeled liposomes. Hara T, et al. **Gene Ther** 1995 Dec;2(10):784–8

ANALYSIS

Isoelectric focusing (IEF) and immunofixation for determination of disialotransferrin. Dumon MF, et al. **Clin Biochem** 1996 Dec;29(6):549–53

Compartmental analysis of asialoglycoprotein receptor scintigraphy for quantitative measurement of liver function: a multicentre study. Ha–Kawa SK, et al. **Eur J Nucl Med** 1997 Feb;24(2):130–7

Detection of human asialo–alpha(1)–acid glycoprotein using a heterosandwich immunoassay in conjunction with the light addressable potentiometric sensor. Dill K, et al. **Glycoconj J** 1996 Aug;13(4):637–41

[Asialotransferrin discriminating excessive, subacute and chronic active alcohol consumption. Clinical usefulness in hepatic disease] Peneda JA, et al. **Acta Med Port** 1996 Feb–Mar;9(2–3):103–11 (Eng. Abstr.) **(Por)**

CHEMISTRY

Preparative purification of tetraantennary oligosaccharides from human asialyl orosomucoid. Stubbs HJ, et al. **Anal Biochem** 1997 May 1;247(2):357–65

Association of asialo–galactosyl beta 1–3N–acetylgalactosamine on the hinge with a conformational instability of Jacalin–reactive immunoglobulin A1 in immunoglobulin A nephropathy. Hiki Y, et al. **J Am Soc Nephrol** 1996 Jun;7(6):955–60

DIAGNOSTIC USE

Contrast enhancement in experimental radiation–induced liver injury: comparison of hepatocellular and reticuloendothelial particulate contrast agents. Stiskal M, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):286–90

METABOLISM

Interaction of human erythrocyte glycophorin with immunoglobulins G. Mikulska J, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):27–32

Binding of mouse sperm to beta–galactose residues on egg zona pellucida and asialofetuin–coupled beads. Mori E, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):95–9

Impairment of the asialoglycoprotein receptor by ethanol oxidation. Clemens DL, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1499–505

Uptake and intracellular trafficking of asialoglycoprotein–polylysine–DNA complexes in isolated rat hepatocytes. Edwards RJ, et al. **Gene Ther** 1996 Oct; 3(10):937–40

Comparative cross–linking activities of lactose–specific plant and animal lectins and a natural lactose–binding immunoglobulin G fraction from human serum with asialofetuin. Gupta D, et al. **Glycobiology** 1996 Dec; 6(8):843–9

Differential ligand binding by two subunits of the rat liver asialoglycoprotein receptor. Ruiz NI, et al. **Glycobiology** 1996 Jul;6(5):551–9

Association of asialo–galactosyl beta 1–3N–acetylgalactosamine on the hinge with a conformational instability of Jacalin–reactive immunoglobulin A1 in immunoglobulin A nephropathy. Hiki Y, et al. **J Am Soc Nephrol** 1996 Jun;7(6):955–60

The oligomerization domain of the asialoglycoprotein receptor preferentially forms 2:2 heterotetramers in vitro. Bider MD, et al. **J Biol Chem** 1996 Dec 13; 271(50):31996–2001

Cytoplasmic protein mRNA interaction mediates cGMP–modulated translational control of the asialoglycoprotein receptor. Stockert RJ, et al. **J Biol Chem** 1997 Apr 4;272(14):9161–5

Three–dimensional organization of rat hepatocyte cytoskeleton: relation to the asialoglycoprotein endocytosis pathway. Novikoff PM, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):21–32

Bafilomycin A1, a specific inhibitor of vacuolar–type H(+)–ATPases, inhibits the receptor–mediated endocytosis of asialoglycoproteins in isolated rat hepatocytes. Harada M, et al. **J Hepatol** 1996 May; 24(5):594–603

Automatic preparation of radiopharmacokinetic data for in vivo estimation of receptor biochemistry. Xu JC, et al. **J Nucl Med** 1996 Nov;37(11):1896–902

Composition, antigenic properties and hepatocyte surface expression of the woodchuck asialoglycoprotein receptor. Diao J, et al. **J Recept Signal Transduct Res** 1996 Sep–Nov; 16(5–6):243–71

Asialoglycoprotein/asialoglycoprotein receptor (AGP–AGPr) interaction is an important mechanism for the uptake of FK506 by hepatocytes. Marks WH, et al. **Transplantation** 1997 Jan 27;63(2):293–8

PHARMACOLOGY

Covalent grafting of fibronectin and asialofetuin at surface of poly(ethylene terephthalate) track–etched membranes improves adhesion but not differentiation of rat hepatocytes. Jaumotte–Thelen S, et al. **J Biomed Mater Res** 1996 Dec;32(4):569–82

ASIAN AMERICANS

The efficacy of brief group counseling in HIV risk reduction among homosexual Asian and Pacific Islander men. Choi KH, et al. **AIDS** 1996 Jan;10(1):81–7

Organizing Asian Pacific Islanders in an urban community to reduce HIV risk: a case study. Loue S, et al. **AIDS Educ Prev** 1996 Oct;8(5):381–93

Prevalence of dementia and its subtypes in the Japanese American population of King County, Washington state. The Kame Project. Graves AB, et al. **Am J Epidemiol** 1996 Oct 15;144(8):760–71

Differences in patterns of tobacco use in Vietnamese, African–American, Hispanic, and Caucasian adolescents in Worcester, Massachusetts. Wiecha JM. **Am J Prev Med** 1996 Jan–Feb;12(1):29–37

Cardiovascular risk factors and hyperinsulinemia in elderly men: the Honolulu Heart Program. Burchfiel CM, et al. **Ann Epidemiol** 1996 Nov;6(6):490–7

Outcome of hypertension management in Asian Americans. Hui KK, et al. **Arch Intern Med** 1997 Jun 23;157(12):1345–8

Breast cancer screening and related attitudes among Filipino–American women. Maxwell AE, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep;6(9):719–26

Serum micronutrients and prostate cancer in Japanese Americans in Hawaii. Nomura AM, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):487–91

Tofu and risk of breast cancer in Asian–Americans. Wu AH, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov; 5(11):901–6

Severity of disturbance among Asian American outpatients. Durvasula R, et al. **Cult Divers Ment Health** 1996; 2(1):43–51

Incidence of non–insulin–dependent diabetes mellitus and its risk factors in Japanese–Americans living in Hawaii and Los Angeles. Hara H, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S133–42

Proinsulin levels predict the development of non–insulin–dependent diabetes mellitus (NIDDM) in Japanese–American men. Kahn SE, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S63–6

A cross–cultural validation of coping strategies and their associations with caregiving distress. Shaw WS, et al. **Gerontologist** 1997 Aug;37(4):490–504

Association of body mass index with blood pressure in elderly Japanese American men. The Honolulu Heart Program. Masaki KH, et al. **Hypertension** 1997 Feb;29(2):673–7

Birthweight outcomes among Asian American and Pacific Islander subgroups in the United States. Le LT, et al. **Int J Epidemiol** 1996 Oct;25(5):973–9

Visceral adiposity, fasting plasma insulin, and lipid and lipoprotein levels in Japanese Americans. Boyko EJ, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):801–8

Ethnicity and body dissatisfaction: are Hispanic and Asian girls at increased risk for eating disorders? [see comments] Robinson TN, et al. **J Adolesc Health** 1996 Dec; 19(6):384–93. Comment in: J Adolesc Health 1997 Jul;21(1):1.

Hepatitis B status of Hmong patients. Gjerdingen DK, et al. **J Am Board Fam Pract** 1997 Sep–Oct;10(5):322–8

Growth patterns of first–generation Southeast Asian Americans from birth to 5 years of age. Hyslop AE, et al. **J Am Board Fam Pract** 1996 Sep–Oct;9(5):328–35

Cholesterol levels among Japanese Americans and other populations: Seattle Nikkei Health Study. Namekata T, et al. **J Atheroscler Thromb** 1996;3(2):105–13

Incidence rates of falls among Japanese men and women living in Hawaii. Davis JW, et al. **J Clin Epidemiol** 1997 May;50(5):589–94

HIV prevention in U.S. Asian Pacific Islander communities: an innovative approach. Loue S, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):364–76

Somatoform disorders in Caucasian and Chinese Americans. Hsu LK, et al. **J Nerv Ment Dis** 1997 Jun;185(6):382–7

Hawaiian–style "talkstory": psychosocial assessment and intervention during and after pregnancy. Affonso DD, et al. **J Obstet Gynecol Neonatal Nurs** 1996 Nov–Dec; 25(9):737–42

A comparison of Asian–American and American Jewish involvement in the medical profession. Juthani M. **JAMA** 1997 Mar 5;277(9):768–9

Frequency and characteristics of silent dementia among elderly Japanese–American men. The Honolulu–Asia Aging Study [see comments] Ross GW, et al. **JAMA** 1997 Mar 12;277(10):800–5. Comment in: JAMA 1997 Jun 11;277(22):1757; discussion 1758–9. Comment in: JAMA 1997 Jun 11;277(22):1757–8; discussion 1758–9. Comment in: JAMA 1997 Jun 11;277(22):1758; discussion 1758–9.

Postpartum nursing for Korean mothers. Schneiderman JU. **MCN Am J Matern Child Nurs** 1996 May–Jun;21(3):155–8

Behavioral Risk Factor Survey of Korean Americans–-Alameda County, California, 1994. **MMWR Morb Mortal Wkly Rep** 1997 Aug 22;46(33):774–7

Selective language aphasia from herpes simplex encephalitis. Ku A, et al. **Pediatr Neurol** 1996 Sep;15(2):169–71

Ethnicity in the pharmacologic treatment process [editorial] Rudorfer MV. **Psychopharmacol Bull** 1996;32(2):181–2

Papers form the National Heart, Lung, and Blood Institute workshop on hypertension in selected U.S. minority populations. Washington, D.C. **Public Health Rep** 1996;111 Suppl 2:1–79

Hypertension in elderly Japanese Americans and adult native Hawaiians. Curb JD, et al. **Public Health Rep** 1996;111 Suppl 2:53–5

Hypertension in Japanese Americans: the Seattle Japanese–American Community Diabetes Study. Fujimoto W, et al. **Public Health Rep** 1996;111 Suppl 2:56–8

Putting it all together: summary of the NHLBI Workshop on the Epidemiology of Hypertension in Hispanic American, Native American, and Asian/Pacific Islander American Populations. Havas S, et al. **Public Health Rep** 1996;111 Suppl 2:77–9

The NHLBI workshop on Hypertension in Hispanic Americans, Native Americans, and Asian/Pacific Islander

Americans. Havas S, et al. **Public Health Rep** 1996 Sep–Oct;111(5):451–8
Cardiovascular risk factors among Asian Americans. Klatsky AL, et al. **Public Health Rep** 1996;111 Suppl 2:62–4
Comparisons of blood pressure between Asian–American children and children from other racial groups in Chicago. Liu K, et al. **Public Health Rep** 1996;111 Suppl 2:65–7
Cultural barriers between obstetrician–gynecologists and Vietnamese/Chinese immigrant women. Vu HH. **Tex Med** 1996 Oct;92(10):47–52

GENETICS

Frequency of deletional alpha–thalassemia genotypes in a predominantly Asian–American population. Hofgärtner WT, et al. **Am J Clin Pathol** 1997 May;107(5):576–81
Alcohol metabolism in Asian–American men with genetic polymorphisms of aldehyde dehydrogenase [see comments] Wall TL, et al. **Ann Intern Med** 1997 Sep 1;127(5):376–9 . Comment in: Ann Intern Med 1997 Sep 1;127(5):401–3.
Predominance of slow acetylators of N–acetyltransferase in a Hmong population residing in the United States. Straka RJ, et al. **J Clin Pharmacol** 1996 Aug;36(8):740–7

PSYCHOLOGY

A national study of factors influencing primary care career choices among underrepresented–minority, white, and Asian American physicians. Xu G, et al. **Acad Med** 1996 Oct;71(10 Suppl):S10–2
The validity of screening for post–traumatic stress disorder and major depression among Vietnamese former political prisoners. Smith Fawzi MC, et al. **Acta Psychiatr Scand** 1997 Feb;95(2):87–93
Acculturative stress among Amerasian refugees: gender and racial differences. Nwadiora E, et al. **Adolescence** 1996 Summer;31(122):477–87
The collectivistic nature of ethnic identity development among Asian–American college students. Yeh CJ, et al. **Adolescence** 1996 Fall;31(123):645–61
Differences between Asian–American and white American dentists in attitudes toward treatment of HIV–positive patients. Raphael KG, et al. **AIDS Educ Prev** 1996 Apr; 8(2):155–64
Control beliefs and faith as stress moderators for Korean American versus Caucasian American protestants. Bjorck JP, et al. **Am J Community Psychol** 1997 Feb;25(1):61–72
Ethnocultural differences in prevalence of adolescent depression. Roberts RE, et al. **Am J Community Psychol** 1997 Feb;25(1):95–110
Conformity with nature: a theory of Chinese American elders' health promotion and illness prevention processes. Chen YL. **ANS Adv Nurs Sci** 1996 Dec;19(2):17–26
Social anxiety and perception of early parenting among American, Chinese American, and social phobic samples. Leung AW, et al. **Anxiety** 1994;1(2):80–9
Comparative levels of psychological distress in a pre–migratory refugee population. McKelvey RS, et al. **Aust N Z J Psychiatry** 1997 Aug;31(4):543–8
A prospective study of psychological distress related to refugee camp experience. McKelvey RS, et al. **Aust N Z J Psychiatry** 1997 Aug;31(4):549–54
Ethnocultural factors in the development of an Asian American psychiatrist. Chung H, et al. **Cult Divers Ment Health** 1996;2(2):99–106 (12 ref.)
Predictors of hostility in a group of relocated refugees. Westermeyer J, et al. **Cult Divers Ment Health** 1997; 3(1):53–60
Egg phobia in retirement homes: health risk perceptions among elderly Chinese. Lew–Ting CY. **Cult Med Psychiatry** 1997 Mar;21(1):27–51
Cultural formulation of psychiatric diagnosis. Case no. 03. Psychosis following Qi–gong in a Chinese immigrant. Lim RF, et al. **Cult Med Psychiatry** 1996 Sep;20(3):369–78
Cultural issues in death and dying. Braun KL, et al. **Hawaii Med J** 1996 Dec;55(12):260–4
Perception of self in the intensive care unit after cardiac surgery among adult Taiwanese and American–Chinese patients. Shih FJ. **Int J Nurs Stud** 1997 Feb;34(1):17–26
Geriatric Depression Scale as a community screening instrument for elderly Chinese immigrants. Mui AC. **Int Psychogeriatr** 1996 Fall;8(3):445–58
Sources of ethnic differences between Asian American and white American college students on measures of depression and social anxiety. Okazaki S. **J Abnorm Psychol** 1997 Feb; 106(1):52–60
Human immunodeficiency virus risk behavior among white and Asian/Pacific Islander high school students in the United States: does culture make a difference? Hou SI, et al. **J Adolesc Health** 1997 Jan;20(1):68–74
Body dissatisfaction among Hispanic and Asian–American girls [letter; comment] Pumariega AJ. **J Adolesc Health** 1997 Jul;21(1):1. Comment on: J Adolesc Health 1996 Dec;19(6):384–93.
Asian–American patient ratings of physician primary care performance. Taira DA, et al. **J Gen Intern Med** 1997 Apr; 12(4):237–42
Explanatory style, family expressiveness, and self–esteem among Asian American and European American college students. Kao EM, et al. **J Soc Psychol** 1997 Aug; 137(4):435–44
Visual memory skills in Japanese and Caucasians. Flaherty M, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1319–29
The effects of violence on health and adjustment of Southeast Asian refugee children: an integrative review. Fox PG, et al. **Public Health Nurs** 1994 Jun;11(3):195–201 (28 ref.)
Depression among elderly Chinese immigrants: an exploratory study. Mui AC. **Soc Work** 1996 Nov; 41(6):633–45
Help–seeking among Asian and Pacific Americans: a multiperspective analysis. Yamashiro G, et al. **Soc Work** 1997 Mar;42(2):176–86 (41 ref.)

STATISTICS & NUMERICAL DATA

Impact of Asian ethnicity and national origin on infant birth weight. Fuentes–Afflick E, et al. **Am J Epidemiol** 1997 Jan 15;145(2):148–55
Acculturation and prevalence of diabetes among Japanese–American men in Hawaii. Huang B, et al. **Am J Epidemiol** 1996 Oct 1;144(7):674–81
Hip fracture incidence among elderly Asian–American populations. Lauderdale DS, et al. **Am J Epidemiol** 1997 Sep 15;146(6):502–9
A prospective study of colon and rectal cancer among Hawaii Japanese men. Chyou PH, et al. **Ann Epidemiol** 1996 Jul; 6(4):276–82
Life and death in Hawaii: ethnic variations in life expectancy and mortality, 1980 and 1990. Braun KL, et al. **Hawaii Med J** 1996 Dec;55(12):278–83, 302
Managed care and Asian Pacific Island women. Wang GM. **J Am Med Womens Assoc** 1996 Aug–Oct;51(4):146, 152
Demographic and psychosocial risk for alcohol use: ethnic differences. Keefe K, et al. **J Stud Alcohol** 1996 Sep; 57(5):521–30
Cross–cultural considerations in health care delivery: Chinese viewpoints. Jones SM. **Md Med J** 1996 Mar;45(3):231–4
Suicide among immigrants from the Indian subcontinent: a review [see comments] Patel SP, et al. **Psychiatr Serv** 1996 May;47(5):517–21. Comment in: Psychiatr Serv 1996 Oct;47(10):1128.
A portrait of Asians and Pacific Islanders in the United States. Pollard KM, et al. **Stat Bull Metrop Insur Co** 1997 Jul–Sep; 78(3):2–9
Southeast Asians: Asian–Pacific Americans at risk for substance misuse. D'Avanzo CE. **Subst Use Misuse** 1997 Jun;32(7–8):829–48 (65 ref.)
Suicide in San Francisco, CA: a comparison of Caucasian and Asian groups, 1987–1994. Shiang J, et al. **Suicide Life Threat Behav** 1997 Spring;27(1):80–91

ASIATIC COBRA see **COBRA**

ASIATIC RACE see **MONGOLOID RACE**

ASP see **VIPERIDAE**

ASPARAGINASE

[Chemical modification of proteins by polyethylene glycol] Uemura T, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep; 41(11):1607–13 (26 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Dose reduction of asparaginase under pharmacokinetic and pharmacodynamic control during induction therapy in children with acute lymphoblastic leukaemia. Ahlke E, et al. **Br J Haematol** 1997 Mar;96(4):675–81
Thyroid function is not affected by second exposure to erwinia asparaginase for childhood acute lymphoblastic leukemia [letter] Bossi G, et al. **Haematologica** 1997 Jul–Aug;82(4):507–8
Accidental intramuscular vincristine: lack of untoward effects and recommendations for management. Clark BS, et al. **Med Pediatr Oncol** 1997 Apr;28(4):314–5

ADVERSE EFFECTS

Asparaginase–associated lipid abnormalities in children with acute lymphoblastic leukemia. Parsons SK, et al. **Blood** 1997 Mar 15;89(6):1886–95
Hyperglycemia and acute parotitis related to L–asparaginase therapy. Uysal K, et al. **J Pediatr Endocrinol Metab** 1996 Nov–Dec;9(6):627–9
Surgical pancreatic complications induced by L–asparaginase. Sadoff J, et al. **J Pediatr Surg** 1997 Jun; 32(6):860–3
Acute tumor lysis syndrome in a cat with lymphoma. Calia CM, et al. **J Vet Intern Med** 1996 Nov–Dec;10(6):409–11
Transient hyperlipidemia during treatment of ALL with L–asparaginase is related to decreased lipoprotein lipase activity [letter] Hoogerbrugge N, et al. **Leukemia** 1997 Aug; 11(8):1377–9

ANALYSIS

An analytical methodology to quantify the incorporation of enzymes in polyalkylcyanoacrylate nanoparticles based on size exclusion chromatography. Martins MB, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):811–8

CHEMISTRY

Polysialylated asparaginase: preparation, activity and pharmacokinetics. Fernandes AI, et al. **Biochim Biophys Acta** 1997 Aug 15;1341(1):26–34
Biochemical characterization of an L–asparaginase bioconjugate. Martins MB, et al. **Bioconjug Chem** 1996 Jul–Aug;7(4):430–5
Crystal structure and amino acid sequence of Wolinella succinogenes L–asparaginase. Lubkowski J, et al. **Eur J Biochem** 1996 Oct 1;241(1):201–7
Investigation of physicochemical changes to L–asparaginase during freeze–thaw cycling. Jameel F, et al. **J Pharm Pharmacol** 1997 May;49(5):472–7
Optimizing the lyophilization cycle and the consequences of collapse on the pharmaceutical acceptability of Erwinia L–asparaginase. Adams GD, et al. **J Pharm Sci** 1996 Dec; 85(12):1301–5

GENETICS

Transcriptional co–activation at the ansB promoters: involvement of the activating regions of CRP and FNR when bound in tandem. Scott S, et al. **Mol Microbiol** 1995 Nov;18(3):521–31

IMMUNOLOGY

[The role of anti L–asparaginase antibody in childhood acute lymphoblastic leukemia] Akazai A, et al. **Rinsho Ketsueki** 1996 Feb;37(2):95–100 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Purification and preliminary characterization of L–asparaginase from Erwinia aroideae NRRL B–138. Tiwari N, et al. **Indian J Biochem Biophys** 1996 Oct; 33(5):371–6

METABOLISM

L–Asparagine depletion in plasma and cerebro–spinal fluid of children with acute lymphoblastic leukemia during subsequent exposures to Erwinia L–asparaginase [see comments] Gentili D, et al. **Ann Oncol** 1996 Sep;7(7):725–30 . Comment in: Ann Oncol 1997 Feb;8(2):204–6.
Asparaginase II of Saccharomyces cerevisiae. GLN3/URE2 regulation of a periplasmic enzyme. Bon EP, et al. **Appl Biochem Biotechnol** 1997 Spring;63–65:203–12
Polysialylated asparaginase: preparation, activity and pharmacokinetics. Fernandes AI, et al. **Biochim Biophys Acta** 1997 Aug 15;1341(1):26–34
Isolation and characterization of Rhizobium etli mutants altered in degradation of asparagine. Huerta–Zepeda A, et al. **J Bacteriol** 1997 Mar;179(6):2068–72

PHARMACOKINETICS

The chemical modification of E. coli L–asparaginase by N,O–carboxymethyl chitosan. Qian G, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):567–77
Pharmacokinetics and drug monitoring of L–asparaginase treatment. Boos J. **Int J Clin Pharmacol Ther** 1997 Mar; 35(3):96–8

PHARMACOLOGY

Amino acid control of asparagine synthetase: relation to asparaginase resistance in human leukemia cells. Hutson RG, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1691–9

THERAPEUTIC USE

L–asparagine–depletion: another opinion [letter; comment] Baumgart J, et al. **Ann Oncol** 1997 Feb;8(2):204–6. Comment on: Ann Oncol 1996 Sep;7(7):725–30.
L–Asparagine depletion in plasma and cerebro–spinal fluid of children with acute lymphoblastic leukemia during subsequent exposures to Erwinia L–asparaginase [see comments] Gentili D, et al. **Ann Oncol** 1996 Sep;7(7):725–30 . Comment in: Ann Oncol 1997 Feb;8(2):204–6.
Pegaspargase: an alternative? Holle LM. **Ann Pharmacother** 1997 May;31(5):616–24 (30 ref.)
Changes in coagulation and fibrinolysis in childhood ALL: a two–step dose reduction of one E. coli asparaginase preparation. Nowak–Göttl U, et al. **Br J Haematol** 1996 Oct;95(1):123–6
Monitoring of asparaginase activity and asparagine levels in children on different asparaginase preparations. Boos J, et al. **Eur J Cancer** 1996 Aug;32A(9):1544–50
Metabolism of proteins and glycoproteins in tumour bearing mice treated with Aeromonas L–asparaginase. Benny PJ, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):527–30
Doxorubicin alone or in combination with asparaginase, followed by cyclophosphamide, vincristine, and prednisone for treatment of multicentric lymphoma in dogs: 121 cases (1987–1995). Valerius KD, et al. **J Am Vet Med Assoc** 1997 Feb 15;210(4):512–6
Chemical modification of L–asparaginase with comb–shaped copolymer of poly(ethylene glycol) derivative and maleic anhydride. Saito T, et al. **Leukemia** 1997 Apr;11 Suppl 3:408–9
[The efficacy of using prolonged–action L–asparaginase in a treatment program for acute lymphoblastic leukemia in adults] Tretiak NM, et al. **Lik Sprava** 1997 Jan–Feb;(1):81–3 **(Ukr)**

TOXICITY

Tolerance evaluation of L–asparaginase loaded in red blood cells. Kravtzoff R, et al. **Eur J Clin Pharmacol** 1996;

51(3-4):221-5

ASPARAGINE

Biosynthesis and N-glycosylation of human interferon-gamma. Asn25 and Asn97 differ markedly in how efficiently they are glycosylated and in their oligosaccharide composition. Sareneva T, et al. **Eur J Biochem** 1996 Dec 1;242(2):191-200

FMRP is associated to the ribosomes via RNA. Tamanini F, et al. **Hum Mol Genet** 1996 Jun;5(6):809-13

Expression of beta 1,6 branched asparagine-linked oligosaccharides in non-mitotic and non-migratory cells of normal human and rat tissues. Li WP, et al. **Int J Cancer** 1997 May 2;71(3):483-90

Structure-function relationships among wild-type variants of Staphylococcus aureus beta-lactamase: importance of amino acids 128 and 216. Voladri RK, et al. **J Bacteriol** 1996 Dec;178(24):7248-53

The conserved asparagine and arginine are essential for catalysis of mammalian adenylyl cyclase. Yan SZ, et al. **J Biol Chem** 1997 May 9;272(19):12342-9

ADMINISTRATION & DOSAGE

Supplementation of aspartate, asparagine and carnitine in the diet causes marked changes in the ultrastructure of soleus muscle. Lancha Júnior AH, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):405-8

ANALOGS & DERIVATIVES

Persistent depression of synaptic responses occurs in quisqualate sensitized hippocampal slices after exposure to L-aspartate-beta-hydroxamate. Roon RJ, et al. **Brain Res** 1996 Sep 23;734(1-2):223-8

ANALYSIS

NMR evidence for a novel asparagine-linked oligosaccharide on cellobiohydrolase I from Trichoderma reesei RUTC 30. De Bruyn A, et al. **FEBS Lett** 1997 Mar 17;405(1):111-3

BIOSYNTHESIS

Mutagenesis and chemical rescue indicate residues involved in beta-aspartyl-AMP formation by Escherichia coli asparagine synthetase B. Boehlein SK, et al. **J Biol Chem** 1997 May 9;272(19):12384-92

CHEMISTRY

Glycosylation beyond the Asn78-linked GlcNAc residue has a significant enhancing effect on the stability of the alpha subunit of human chorionic gonadotropin. van Zuylen CW, et al. **Biochem Biophys Res Commun** 1997 Mar 6; 232(1):117-20

The oligosaccharide side chain on Asn-135 of alpha-antithrombin, absent in beta-antithrombin, decreases the heparin affinity of the inhibitor by affecting the heparin-induced conformational change. Turk B, et al. **Biochemistry** 1997 Jun 3;36(22):6682-91

Modulation of protein structure and function by asparagine-linked glycosylation. O'Connor SE, et al. **Chem Biol** 1996 Oct;3(10):803-12 (54 ref.)

Rarity of the Asn291Ser mutation of lipoprotein lipase gene in Japanese NIDDM patients. Arai K, et al. **Diabetes Res Clin Pract** 1997 Jan;34(3):181-2

Role of complex asparagine-linked glycans in the allergenicity of plant glycoproteins. Garcia-Casado G, et al. **Glycobiology** 1996 Jun;6(4):471-7

Isolation, characterization and inactivation of the mouse Mgat3 gene: the bisecting N-acetylglucosamine in asparagine-linked oligosaccharides appears dispensable for viability and reproduction. Priatel JJ, et al. **Glycobiology** 1997 Feb;7(1):45-56

HB Hinwil or beta 38(C4)Thr-->Asn: a new beta chain variant detected in a Swiss family. Frischknecht H, et al. **Hemoglobin** 1996 Feb;20(1):31-40

Molecular dynamics simulations of hybrid and complex type oligosaccharides. Balaji PV, et al. **Int J Biol Macromol** 1996 Feb;18(1-2):101-14

Protection of asparagine and glutamine during N alpha-Bpoc-based solid-phase peptide synthesis. Carey RI, et al. **Int J Pept Protein Res** 1996 Mar;47(3):209-13

Aza-peptides. II. X-ray structures of aza-alanine and aza-asparagine-containing peptides. André F, et al. **J Pept Res** 1997 Jun;49(6):556-62

Novel N omega-xanthenyl-protecting groups for asparagine and glutamine, and applications to N alpha-9-fluorenylmethyloxycarbonyl (Fmoc) solid-phase peptide synthesis. Han Y, et al. **Pept Res** 1996 Jul-Aug; 9(4):166-73

Kinetics and mechanism of the cleavage of the peptide bond next to asparagine. Capasso S, et al. **Peptides** 1996; 17(6):1075-7

Involvement of a residue at position 75 in the catalytic mechanism of a fungal aspartic proteinase, Rhizomucor pusillus pepsin. Replacement of tyrosine 75 on the flap by asparagine enhances catalytic efficiency. Park YN, et al. **Protein Eng** 1996 Oct;9(10):869-75

The 'Asx-Pro turn' as a local structural motif stabilized by alternative patterns of hydrogen bonds and a consensus-derived model of the sequence Asn-Pro-Asn. Wilson DR, et al. **Protein Eng** 1997 May;10(5):519-29

Thermodynamic analysis of the effect of selective monodeamidation at asparagine 67 in ribonuclease A. Catanzano F, et al. **Protein Sci** 1997 Aug;6(8):1682-93

Genetic diagnosis of dysplasminogenemia: detection of an Ala601-Thr mutation in 118 out of 125 families and identification of a new Asp676-Asn mutation. Tsutsumi S, et al. **Thromb Haemost** 1996 Aug;76(2):135-8

[Simultaneous stereoinversion, racemization and isomerization at specific amino acid residues in the proteins during aging] Fujii N. **Seikagaku** 1996 Oct;68(10):1641-5 (12 ref.) **(Jpn)**

GENETICS

Asparagine-344 is a key residue for ligand binding in keratinocyte growth factor receptor. Gray TE, et al. **Biochemistry** 1996 Dec 10;35(49):15640-5

Inhibition of the M1-->M2 (M(closed) --> M(open)) transition in the D96N mutant photocycle and its relation to the corresponding transition in wild-type bacteriorhodopsin. Radionov AN, et al. **FEBS Lett** 1997 Jun 9;409(2):137-40

The conformational change responsible for AT1 receptor activation is dependent upon two juxtaposed asparagine residues on transmembrane helices III and VII. Balmforth AJ, et al. **J Biol Chem** 1997 Feb 14;272(7):4245-51

Mutation of Asn111 in the third transmembrane domain of the AT1A angiotensin II receptor induces its constitutive activation. Groblewski T, et al. **J Biol Chem** 1997 Jan 17; 272(3):1822-6

Buried asparagines determine the dimerization specificities of leucine zipper mutants. Zeng X, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3673-8

RNA cleavage without hydrolysis. Splitting the catalytic activities of binase with Asn101 and Thr101 mutations. Okorokov AL, et al. **Protein Eng** 1997 Mar;10(3):273-8

IMMUNOLOGY

Recognition of phage-expressed peptides containing Asx-Pro sequences by monoclonal antibodies produced against Plasmodium falciparum circumsporozoite protein. Wilson DR, et al. **Protein Eng** 1997 May;10(5):531-40

METABOLISM

L-asparagine-depletion: another opinion [letter; comment] Baumgart J, et al. **Ann Oncol** 1997 Feb;8(2):204-6. Comment on: Ann Oncol 1996 Sep;7(7):725-30.

Heterogeneity in utilization of N-glycosylation sites Asn624 and Asn138 in human lactoferrin: a study with glycosylation-site mutants. van Berkel PH, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):117-22

Recombinant human glycosylasparaginase catalyzes hydrolysis of L-asparagine. Noronkoski T, et al. **FEBS Lett** 1997 Jul 21;412(1):149-52

Isolation of new nonconditional Saccharomyces cerevisiae mutants defective in asparagine-linked glycosylation. Mañas P, et al. **Glycobiology** 1997 Jun;7(4):487-97

Comparison of the biological activity of synthetic N-acylated asparagine or serine linked monosaccharide lipid A analogs. Shimizu T, et al. **Immunobiology** 1996;196(4):321-31

Analysis of deamidation of small, acid-soluble spore proteins from Bacillus subtilis in vitro and in vivo. Hayes CS, et al. **J Bacteriol** 1997 Oct;179(19):6020-7

Isolation and characterization of Rhizobium etli mutants altered in degradation of asparagine. Huerta-Zepeda A, et al. **J Bacteriol** 1997 Mar;179(6):2068-72

A mouse amidase specific for N-terminal asparagine. The gene, the enzyme, and their function in the N-end rule pathway. Grigoryev S, et al. **J Biol Chem** 1996 Nov 8; 271(45):28521-32

Intracellular disposal of incompletely folded human alpha1-antitrypsin involves release from calnexin and post-translational trimming of asparagine-linked oligosaccharides. Liu Y, et al. **J Biol Chem** 1997 Mar 21; 272(12):7946-51

Asparagine 394 in putative helix 11 of the galactose-H+ symport protein (GalP) from Escherichia coli is associated with the internal binding site for cytochalasin B and sugar. McDonald TP, et al. **J Biol Chem** 1997 Jun 13; 272(24):15189-99

Multiple dimeric forms of human CD69 result from differential addition of N-glycans to typical (Asn-X-Ser/Thr) and atypical (Asn-X-cys) glycosylation motifs. Vance BA, et al. **J Biol Chem** 1997 Sep 12; 272(37):23117-22

Amino acid utilisation and deamination of glutamine and asparagine by Helicobacter pylori. Stark RM, et al. **J Med Microbiol** 1997 Sep;46(9):793-800

A glutamate/glutamine/aspartate/asparagine transport operon in Rhodobacter capsulatus. Zheng S, et al. **Mol Microbiol** 1996 Jun;20(5):1001-11

Study of the interaction between aryloxypropanolamines and Asn386 in helix VII of the human 5-hydroxytryptamine1A receptor. Kuipers W, et al. **Mol Pharmacol** 1997 May; 51(5):889-96

Asparagine 212 is essential for abasic site recognition by the human DNA repair endonuclease HAP1. Rothwell DG, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4217-21

Asparagine-127 of xylanase A from Streptomyces lividans, a key residue in glycosyl hydrolases of superfamily 4/7: kinetic evidence for its involvement in stabilization of the catalytic intermediate. Roberge M, et al. **Protein Eng** 1997 Apr;10(4):399-403

Can malignancy in insulinoma be predicted by the expression patterns of beta 1,6 branching of asparagine-linked oligosaccharides and polysialic acid of the neural cell adhesion molecule? Li WP, et al. **Virchows Arch** 1996 Nov; 429(4-5):197-204

[Simultaneous stereoinversion, racemization and isomerization at specific amino acid residues in the proteins during aging] Fujii N. **Seikagaku** 1996 Oct;68(10):1641-5 (12 ref.) **(Jpn)**

PHARMACOLOGY

Expression of the ornithine decarboxylase gene in response to asparagine in intestinal epithelial cells. Wang JY, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G164-71

Characterization of Ca(2+) flows essential in ornithine decarboxylase induction by L-asparagine in rat hepatoma cells using Ca(2+) flow inhibitors. Wong PC, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):1041-7

ASPARAGINE SYNTHASE see **ASPARTATE-AMMONIA LIGASE**

ASPARTAME

ADMINISTRATION & DOSAGE

The effect of aspartame as part of a multidisciplinary weight-control program on short- and long-term control of body weight. Blackburn GL, et al. **Am J Clin Nutr** 1997 Feb;65(2):409-18

Evaluation of an aspartame loading test for the detection of heterozygotes for classical phenylketonuria. Silva LC, et al. **Clin Genet** 1997 Apr;51(4):231-5

ADVERSE EFFECTS

Aspartame consumption in relation to childhood brain tumor risk: results from a case-control study. Gurney JG, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1072-4

"Increasing brain tumor rates: is there a link to aspartame?" [letter; comment] Flamm WG. **J Neuropathol Exp Neurol** 1997 Jan;56(1):105-6. Comment on: J Neuropathol Exp Neurol 1996 Nov;55(11):1115-23.

"Increasing brain tumor rates: is there a link to aspartame?" [letter; comment] Koestner A. **J Neuropathol Exp Neurol** 1997 Jan;56(1):107-9. Comment on: J Neuropathol Exp Neurol 1996 Nov;55(11):1115-23.

Statistical and epidemiological treatment of the SEER incidence data [letter; comment] Levy PS, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1280. Comment on: J Neuropathol Exp Neurol 1996 Nov;55(11):1115-23.

Increasing brain tumor rates: is there a link to aspartame? [see comments] Olney JW, et al. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1115-23. Comment in: J Neuropathol Exp Neurol 1996 Dec;55(12):1280. Comment in: J Neuropathol Exp Neurol 1997 Jan;56(1):105-6. Comment in: J Neuropathol Exp Neurol 1997 Jan;56(1):107-9.

Safety of aspartame [letter; comment] Butchko HH. **Lancet** 1997 Apr 12;349(9058):1105. Comment on: Lancet 1997 Feb 1;349(9048):362.

Aspartame and brain cancer [letter] [see comments] Roberts HJ. **Lancet** 1997 Feb 1;349(9048):362. Comment in: Lancet 1997 Apr 12;349(9058):1105.

ANALOGS & DERIVATIVES

Sweet and bitter taste: structure and conformations of two aspartame dipeptide analogues. Benedetti E, et al. **J Pept Sci** 1995 Nov-Dec;1(6):349-59

ANALYSIS

Amperometric bienzymic sensor for aspartame. Compagnone D, et al. **Analyst** 1997 May;122(5):487-90

CHEMISTRY

Solid state stability studies of model dipeptides: aspartame and aspartylphenylalanine. Leung SS, et al. **J Pharm Sci** 1997 Jan;86(1):64-71

METABOLISM

Simple and rapid high-performance liquid chromatographic method for the determination of aspartame and its metabolites in foods. Gibbs BF, et al. **J Chromatogr A** 1996 Feb 23;725(2):372-7

PHARMACOKINETICS

Aspartame pharmacokinetics: the effect of ageing [letter; comment] Sayer AP. **Age Ageing** 1996 Sep;25(5):413. Comment on: Age Ageing 1996 May;25(3):217-20.

PHARMACOLOGY

Cephalic phase responses to sweet taste. Abdallah L, et al. **Am J Clin Nutr** 1997 Mar;65(3):737-43

Reduction of the ochratoxin A-induced cytotoxicity in Vero cells by aspartame. Baudrimont I, et al. **Arch Toxicol** 1997; 71(5):290-8

The effect of satiety on responses of gustatory neurons in the amygdala of alert cynomolgus macaques. Yan J, et al. **Brain Res** 1996 Nov 18;740(1-2):193-200

ASPARTAME

The effect of sucrose- and aspartame-sweetened drinks on energy intake, hunger and food choice of female, moderately restrained eaters. Lavin JH, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):37-42

Aspartame's effects on behavioral thermoregulation in albino rats. Vitulli WF, et al. **Percept Mot Skills** 1996 Aug; 83(1):15-20

THERAPEUTIC USE

Cariostatic effect of aspartame in rats. Das S, et al. **Caries Res** 1997;31(1):78-83

Aspartame as a preventive agent of chronic toxic effects of ochratoxin A in experimental animals. Creppy EE, et al. **Food Addit Contam** 1996;13 Suppl:51-2 (6 ref.)

ASPARTASE see **ASPARTATE AMMONIA-LYASE**

ASPARTATE AMINOTRANSFERASE

ANALYSIS

A multi-center clinical trial of a new chairside test in distinguishing between diseased and healthy periodontal sites. II. Association between site type and test outcome before and after therapy. Magnusson I, et al. **J Periodontol** 1996 Jun;67(6):589-96

Aspartate aminotransferase (AST) levels in human periodontium-derived cells. Mizuho F, et al. **J Periodontol** 1996 Aug;67(8):733-6

Activity of aspartate aminotransferase and acid phosphatase in cryopreserved trout sperm. Glogowski J, et al. **Reprod Fertil Dev** 1996;8(8):1179-84

ANTAGONISTS & INHIBITORS

In vitro effects of the novel anti-epileptic agent vigabatrin on alanine aminotransferase and aspartate aminotransferase activities in rat serum. Okumura H, et al. **Arzneimittelforschung** 1996 May;46(5):459-62

Irreversible inactivation of aspartate aminotransferase by 2-oxoglutaconic acid and its dimethyl ester. Kato Y, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):531-9

BLOOD

Serum aminotransferase levels and histological disease in chronic hepatitis C. Michielsen PP, et al. **Acta Gastroenterol Belg** 1997 Jan-Mar;60(1):11-4

Effect of weight changes on serum transaminase activities in obese children. Tazawa Y, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):210-4

Effects of histamine on gizzard erosions and on the activity of selected enzymes in chickens. Džaja P, et al. **Acta Vet Hung** 1995;43(4):431-41

New 'state' markers for the detection of alcoholism. Lesch OM, et al. **Alcohol Alcohol** 1996 Mar;31 Suppl 1:59-62 (30 ref.)

Nitric oxide and liver injury in alcohol-fed rats after lipopolysaccharide administration. Chamulitrat W, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):1065-70

The effects of cigarette smoking and alcohol consumption on serum liver enzyme activities: a dose-related study in men. Whitehead TP, et al. **Ann Clin Biochem** 1996 Nov; 33 (Pt 6):530-5

Muscle protein release following down hill walking. Forrester W, et al. **Biochem Soc Trans** 1996 May;24(2):318S

Comparison of effect of cafetière and filtered coffee on serum concentrations of liver aminotransferases and lipids: six month randomised controlled trial [see comments] Urgert R, et al. **BMJ** 1996 Nov 30;313(7069):1362-6. Comment in: BMJ 1997 Mar 1;314(7081):680.

Correlation between the severity of acute hepatic necrosis induced by acetaminophen and serum aminotransferase levels in fasted and sucrose-fed rats. Hessel G, et al. **Braz J Med Biol Res** 1996 Jun;29(6):793-6

Serum enzymes in heat stroke: prognostic implication. Alzeer AH, et al. **Clin Chem** 1997 Jul;43(7):1182-7

Characterization of the aspartate aminotransferase-immunoglobulin M complex in a Japanese woman. Asanuma K, et al. **Clin Chem** 1997 Apr; 43(4):686-7

Mitochondrial aspartate aminotransferase isoenzyme: a biochemical marker for the clinical management of alcoholics? Macchia T, et al. **Clin Chim Acta** 1997 Jul 4; 263(1):79-96

Some factors influencing plasma AST/CK activities in thoroughbred racehorses. Harris PA, et al. **Equine Vet J Suppl** 1990 Jun;(9):66-71

Influence of the presence or absence of pyridoxal-5'-phosphate in control sera on the interlaboratory comparability in measuring aspartate aminotransferase catalytic concentration [letter] Friedecký B, et al. **Eur J Clin Chem Clin Biochem** 1996 Dec; 34(12):981-2

Importance of pyridoxal-5'-phosphate addition to the assay medium for the measurement of catalytic concentrations of plasma aspartate and alanine aminotransferases in patients undergoing antineoplastic chemotherapy. Mastroianni A, et al. **Eur J Clin Chem Clin Biochem** 1996 Jun;34(6):507-10

Effect of ursodeoxycholic acid on hypertransaminasaemia and bile acid composition in patients undergoing bone marrow transplantation--a double-blind randomized control study. Clerici C, et al. **Ital J Gastroenterol** 1996 May;28(4):191-8

Incidence of hepatitis C in patients with chronic elevations of aminotransferases [see comments] Salazar AE, et al. **J Am Board Fam Pract** 1996 May-Jun;9(3):157-61. Comment in: J Am Board Fam Pract 1996 Sep-Oct;9(5):391.

Divergent concentrations of plasma metabolites in swine selected for seven generations for high or low plasma total cholesterol. Pond WG, et al. **J Anim Sci** 1997 Feb; 75(2):311-6

Simultaneous assay for aspartate aminotransferase and guanase in human serum by high-performance liquid chromatography. Carunchio V, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):305-11

Abnormal serum biochemistries in association with arterial gas embolism. Smith RM, et al. **J Emerg Med** 1997 May-Jun;15(3):285-9

Elevated serum liver enzymes in coke oven and by-product workers. Wu MT, et al. **J Occup Environ Med** 1997 Jun; 39(6):527-33

Vitamin dependent erythrocyte enzymes in newborns in relation to gestational age and birth weight. Ramos JL, et al. **J Perinat Med** 1996;24(3):221-5

The significance of AST changes in patients with rheumatoid arthritis treated with methotrexate [editorial; comment] Heathcote J. **J Rheumatol** 1996 Mar;23(3):413-5. Comment on: J Rheumatol 1996 Mar;23(3):459-61.

Significant changes in serum AST across hepatic histological biopsy grades: prospective analysis of 3 cohorts receiving methotrexate therapy for rheumatoid arthritis [see comments] Kremer JM, et al. **J Rheumatol** 1996 Mar; 23(3):459-61. Comment in: J Rheumatol 1996 Mar;23(3):413-5.

Relationships between plasma ferritin and aminotransferase profile in haemodialysis patients with hepatitis C virus. Caramelo C, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1792-6

Influence of hepatitis C virus (HCV) viraemia upon serum aminotransferase activity in chronic dialysis patients. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1394-8

Revised cutoff values of serum aminotransferase in detecting viral hepatitis among CAPD patients: experience from Taiwan, an endemic area for hepatitis B. Hung KY, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):180-3

Absence of heparin interference in the measurement of aspartate aminotransferase activity with the Ektachem AST "visible" slides [letter] Duvillard L, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):191-2

Plasma enzymic changes in insulin-induced hypoglycemia in experimental rabbits. Jiang ZL, et al. **Tohoku J Exp Med** 1996 Jul;179(3):219-22

[The effect of blood AST, ALT and lactate after short and middle distance exercise training] Chuang CC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Sep; 12(9):544-8 (Eng. Abstr.) **(Jpn)**

CEREBROSPINAL FLUID

Diagnosis of Alzheimer's disease with cerebrospinal fluid tau protein and aspartate aminotransferase [letter] Riemenschneider M, et al. **Lancet** 1997 Sep 13; 350(9080):784

CHEMISTRY

Chloroplastic aspartate aminotransferase from Arabidopsis thaliana: an examination of the relationship between the structure of the gene and the spatial structure of the protein. Wilkie SE, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):969-76

Use of 1H-15N heteronuclear multiple-quantum coherence NMR spectroscopy to study the active site of aspartate aminotransferase. Mollova ET, et al. **Biochemistry** 1997 Jan 21;36(3):615-25

Short-lived intermediates in aspartate aminotransferase systems. Czerlinski G, et al. **Biophys J** 1997 Mar; 72(3):1135-42

Molecular-dynamics simulation of domain movements in aspartate aminotransferase. Kasper P, et al. **Eur J Biochem** 1996 Sep 15;240(3):751-5

Aspartate aminotransferase from an alkalophilic Bacillus contains an additional 20-amino acid extension at its functionally important N-terminus. Battchikova N, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):425-32

An aspartate aminotransferase from an extremely thermophilic bacterium, Thermus thermophilus HB8. Okamoto A, et al. **J Biochem (Tokyo)** 1996 Jan; 119(1):135-44

Refinement and comparisons of the crystal structures of pig cytosolic aspartate aminotransferase and its complex with 2-methylaspartate. Rhee S, et al. **J Biol Chem** 1997 Jul 11;272(28):17293-302

Nuclear magnetic resonance in study of active sites of pyridoxal-dependent enzymes. Metzler DE. **Methods Enzymol** 1997;280:30-40

DRUG EFFECTS

Protective effects of Gynostemma pentaphyllum in gamma-irradiated mice. Chen WC, et al. **Am J Chin Med** 1996;24(1):83-92

Effect of naklofen, alcohol and naklofen administered simultaneously with alcohol on transaminase levels. Łąkowska H, et al. **Folia Morphol (Warsz)** 1996;55(4):380-1

GENETICS

Inheritance and linkage of aspartate aminotransferase in Anopheles stephensi. Adak T, et al. **Biochem Genet** 1996 Oct;34(9-10):363-6

Chloroplastic aspartate aminotransferase from Arabidopsis thaliana: an examination of the relationship between the structure of the gene and the spatial structure of the protein. Wilkie SE, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):969-76

Characterization and mapping of cDNA encoding aspartate aminotransferase in rice, Oryza sativa L. Song J, et al. **DNA Res** 1996 Oct 31;3(5):303-10

Cytosolic aspartate aminotransferase encoded by the AAT2 gene is targeted to the peroxisomes in oleate-grown Saccharomyces cerevisiae. Verleur N, et al. **Eur J Biochem** 1997 Aug 1;247(3):972-80

The Saccharomyces cerevisiae RTG2 gene is a regulator of aconitase expression under catabolite repression conditions. Vélot C, et al. **Genetics** 1996 Nov;144(3):893-903

Aspartate aminotransferase from an alkalophilic Bacillus contains an additional 20-amino acid extension at its functionally important N-terminus. Battchikova N, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):425-32

Contribution of a nuclear factor 1 binding site to the glucocorticoid regulation of the cytosolic aspartate aminotransferase gene promoter. Garlatti M, et al. **J Biol Chem** 1996 Dec 20;271(51):32629-34

Cysteine-191 in aspartate aminotransferases appears to be conserved due to the lack of a neutral mutation pathway to the functional equivalent, alanine-191. Gloss LM, et al. **Proteins** 1996 Feb;24(2):195-208

A system for tissue-specific copper-controllable gene expression in transgenic plants: nodule-specific antisense of aspartate aminotransferase-P2. Mett VL, et al. **Transgenic Res** 1996 Mar;5(2):105-113

ISOLATION & PURIFICATION

Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from Bacillus stearothermophilus, cloning of the corresponding gene, aspC, and application in a coupled transaminase process. Bartsch K, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3794-9

Hydrophobic interaction chromatography. O'Farrell P. **Methods Mol Biol** 1996;59:151-5

METABOLISM

Pre-operative time course changes in liver function tests in biliary atresia: its usefulness in the discrimination of biliary atresia in early infancy. Yamagiwa I, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):506-12

Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from Bacillus stearothermophilus, cloning of the corresponding gene, aspC, and application in a coupled transaminase process. Bartsch K, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3794-9

Interaction of a dimeric mitochondrial precursor with phospholipid vesicles: direct association of each subunit with the membrane is required for loss of functionality. Berezov A, et al. **Arch Biochem Biophys** 1996 Dec 1; 336(1):173-83

Noncoded amino acid replacement probes of the aspartate aminotransferase mechanism. Park Y, et al. **Biochemistry** 1997 Aug 26;36(34):10517-25

Aspartate aminotransferase complexed with erythro-beta-hydroxyaspartate: crystallographic and spectroscopic identification of the carbinolamine intermediate. von Stosch AG. **Biochemistry** 1996 Dec 3; 35(48):15260-8

Analysis of wild-type and mutant aspartate aminotransferases using integrated rate equations. Schiller MR, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):17-27

Short-lived intermediates in aspartate aminotransferase systems. Czerlinski G, et al. **Biophys J** 1997 Mar; 72(3):1135-42

Inactivation of brain and kidney aspartate aminotransferases by S-(1,2,-dichlorovinyl)-L-cysteine and by S-(1,1,2,2,-tetrafluoroethyl)-L-cysteine. Kato Y, et al. **Dev Neurosci** 1996;18(5-6):505-14

The mechanism of high-yielding chiral syntheses catalysed by wild-type and mutant forms of aspartate aminotransferase. Contestabile R, et al. **Eur J Biochem** 1996 Aug 15;240(1):150-5

3-hydroxykynurenine transamination leads to the formation of the fluorescent substances in human lenses. Malina HZ, et al. **Eur J Ophthalmol** 1996 Jul-Sep;6(3):250-6

Abnormal liver enzymes in outpatients with eating disorders. Mickley D, et al. **Int J Eat Disord** 1996 Nov;20(3):325-9

Alcohol consumption and serum liver-derived enzymes in a Danish population aged 30-50 years. Steffensen FH, et al. **Int J Epidemiol** 1997 Feb;26(1):92-9

Refolding intermediates of acid-unfolded mitochondrial aspartate aminotransferase bind to hsp70. Artigues A, et al. **J Biol Chem** 1997 Jul 4;272(27):16852-61

Active-site Arg --> Lys substitutions alter reaction and substrate specificity of aspartate aminotransferase. Vacca RA, et al. **J Biol Chem** 1997 Aug 29;272(35):21932-7

Novel sources of mammalian C-S lyase activity. Adcock HJ, et al. **J Pharm Pharmacol** 1996 Feb;48(2):150-3

Prolactin regulation of mitochondrial aspartate aminotransferase and protein kinase C in human prostate cancer cells. Franklin RB, et al. **Mol Cell Endocrinol** 1997 Mar 14;127(1):19–25

Determination of half-reaction equilibrium in a ping-pong enzyme mechanism. Smith GD, et al. **Neurochem Res** 1996 Sep;21(9):1061–4

Stability of aspartate aminotransferase from Sulfolobus solfataricus. Arnone MI, et al. **Protein Eng** 1997 Mar; 10(3):237–48

A large compressibility change of protein induced by a single amino acid substitution. Gekko K, et al. **Protein Sci** 1996 Mar;5(3):542–5

[The effect of alimentary vitamin B6 supply during pregnancy and lactation on the activity of specific transaminases of lactating rats] Roth-Maier DA, et al. **Z Ernahrungswiss** 1996 Sep;35(3):282–7 (Eng. Abstr.) **(Ger)**

[Aspartatergic pyramidal neurons of Betz in the cat motor cortex] Okhotin VE, et al. **Biull Eksp Biol Med** 1996 Jul; 122(7):100–2 **(Rus)**

STANDARDS

[Normal values of the de Ritis coefficient] Ivanov DE. **Klin Lab Diagn** 1997 Apr;(4):42–3 **(Rus)**

ASPARTATE AMINOTRANSFERASE ISOENZYMES see **ASPARTATE AMINOTRANSFERASE**

ASPARTATE AMINOTRANSFERASE ISOZYMES see **ASPARTATE AMINOTRANSFERASE**

ASPARTATE-AMMONIA LIGASE

BIOSYNTHESIS

Phytochrome-regulated repression of gene expression requires calcium and cGMP. Neuhaus G, et al. **EMBO J** 1997 May 15;16(10):2554–64

Molecular cloning and expression of two cDNAs encoding asparagine synthetase in soybean. Hughes CA, et al. **Plant Mol Biol** 1997 Jan;33(2):301–11

CHEMISTRY

Mutagenesis and chemical rescue indicate residues involved in beta-aspartyl-AMP formation by Escherichia coli asparagine synthetase B. Boehlein SK, et al. **J Biol Chem** 1997 May 9;272(19):12384–92

GENETICS

Cloning of cDNA for asparagine synthetase from rat Sertoli cell. Hongo S, et al. **Biochem Mol Biol Int** 1996 Feb; 38(1):189–96

Cloning of the ASN1 and ASN2 genes encoding asparagine synthetases in Saccharomyces cerevisiae: differential regulation by the CCAAT-box-binding factor. Dang VD, et al. **Mol Microbiol** 1996 Nov;22(4):681–92

Nitrogen assimilation in alfalfa: isolation and characterization of an asparagine synthetase gene showing enhanced expression in root nodules and dark-adapted leaves. Shi L, et al. **Plant Cell** 1997 Aug;9(8):1339–56

METABOLISM

Amino acid control of asparagine synthetase: relation to asparaginase resistance in human leukemia cells. Hutson RG, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1691–9

Identification of cysteine-523 in the aspartate binding site of Escherichia coli asparagine synthetase B. Boehlein SK, et al. **Biochemistry** 1997 Aug 19;36(33):10168–77

ASPARTATE AMMONIA-LYASE

ANALYSIS

Enhancement of catalytic activity by gene truncation: activation of L-aspartase from Escherichia coli. Jayasekera MM, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):411–4

CHEMISTRY

Site-directed mutagenesis of cysteinyl residues in aspartase of Escherichia coli. Chen HH, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:70–3

Mapping the mechanism-based modification sites in L-aspartase from Escherichia coli. Giorgianni F, et al. **Arch Biochem Biophys** 1997 May 15;341(2):329–36

Evaluation of functionally important amino acids in L-aspartate ammonia-lyase from Escherichia coli. Jayasekera MM, et al. **Biochemistry** 1997 Jul 29; 36(30):9145–50

The structure of L-aspartate ammonia-lyase from Escherichia coli. Shi W, et al. **Biochemistry** 1997 Jul 29; 36(30):9136–44

GENETICS

Purification and characterisation of a plasminogen-binding protein from Haemophilus influenzae. Sequence determination reveals identity with aspartase. Sjöström I, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):182–90

ISOLATION & PURIFICATION

Purification of L-aspartase by gene fusion. Zhang H, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:429–33

METABOLISM

Isolation and characterization of Rhizobium etli mutants altered in degradation of asparagine. Huerta-Zepeda A, et al. **J Bacteriol** 1997 Mar;179(6):2068–72

PHYSIOLOGY

Evaluation of functionally important amino acids in L-aspartate ammonia-lyase from Escherichia coli. Jayasekera MM, et al. **Biochemistry** 1997 Jul 29; 36(30):9145–50

ASPARTATE CARBAMOYLTRANSFERASE

ANALYSIS

A continuous spectrophotometric assay for aspartate transcarbamylase and ATPases. Rieger CE, et al. **Anal Biochem** 1997 Mar 1;246(1):86–95

CHEMISTRY

Functionally linked hydration changes in Escherichia coli aspartate transcarbamylase and its catalytic subunit. LiCata VJ, et al. **Biochemistry** 1997 Aug 19;36(33):10161–7

Conversion of the allosteric regulatory patterns of aspartate transcarbamoylase by exchange of a single beta-strand between diverged regulatory chains. Liu L, et al. **Biochemistry** 1997 Mar 18;36(11):3126–32

Allosteric regulation in a family of enterobacterial aspartate transcarbamylases: intramolecular transmission of regulatory signals in chimeric enzymes. Cunin R, et al. **J Mol Biol** 1996 Sep 20;262(2):258–69

Random circular permutation of genes and expressed polypeptide chains: application of the method to the catalytic chains of aspartate transcarbamoylase. Graf R, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11591–6

In vivo formation of allosteric aspartate transcarbamoylase containing circularly permuted catalytic polypeptide chains: implications for protein folding and assembly. Zhang P, et al. **Protein Sci** 1996 Jul;5(7):1290–300

Identification and analysis of long-range electrostatic effects in proteins by computer modeling:aspartate transcarbamylase. Oberoi H, et al. **Proteins** 1996 Jul; 25(3):300–14

Large differences are observed between the crystal and solution quaternary structures of allosteric aspartate transcarbamylase in the R state. Svergun DI, et al. **Proteins** 1997 Jan;27(1):110–7

GENETICS

Molecular cloning and characterization of the pyrB gene of Lactobacillus leichmannii encoding aspartate transcarbamylase. Becker J, et al. **Biochimie** 1996;78(1):3–13

Aspartate transcarbamylase from the deep-sea hyperthermophilic archaeon Pyrococcus abyssi: genetic organization, structure, and expression in Escherichia coli. Purcarea C, et al. **J Bacteriol** 1997 Jul;179(13):4143–57

Engineered complementation in Escherichia coli aspartate transcarbamoylase. Heterotropic regulation by quaternary structure stabilization. Aucoin JM, et al. **J Biol Chem** 1996 Nov 22;271(47):29865–9

Inefficient growth arrest in response to dNTP starvation stimulates gene amplification through bridge-breakage-fusion cycles. Poupon MF, et al. **Mol Biol Cell** 1996 Mar;7(3):345–54

Myc versus USF: discrimination at the cad gene is determined by core promoter elements. Boyd KE, et al. **Mol Cell Biol** 1997 May;17(5):2529–37

Multiple mechanisms of N-phosphonacetyl-L-aspartate resistance in human cell lines: carbamyl-P synthetase/aspartate transcarbamylase/dihydro-orotase gene amplification is frequent only when chromosome 2 is rearranged. Smith KA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1816–21

METABOLISM

Conversion of the allosteric regulatory patterns of aspartate transcarbamoylase by exchange of a single beta-strand between diverged regulatory chains. Liu L, et al. **Biochemistry** 1997 Mar 18;36(11):3126–32

Is substrate inhibition a consequence of allostery in aspartate transcarbamylase? LiCata VJ, et al. **Biophys Chem** 1997 Feb 28;64(1-3):225–34

Trapping an activated conformation of mammalian carbamyl-phosphate synthetase. Guy HI, et al. **J Biol Chem** 1997 Aug 8;272(32):19906–12

Random circular permutation of genes and expressed polypeptide chains: application of the method to the catalytic chains of aspartate transcarbamoylase. Graf R, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11591–6

The allosteric activator ATP induces a substrate-dependent alteration of the quaternary structure of a mutant aspartate transcarbamoylase impaired in active site closure. Baker DP, et al. **Protein Sci** 1996 Nov;5(11):2276–86

ASPARTATE KINASE

BLOOD

Bacterial aspartate kinase-like activity in human platelet. Arenas-Díaz G, et al. **Cell Mol Biol Res** 1995;41(5):461–5

CHEMISTRY

Molecular characterization of an Arabidopsis thaliana cDNA coding for a monofunctional aspartate kinase. Frankard V, et al. **Plant Mol Biol** 1997 May;34(2):233–42

GENETICS

A mutant of Arabidopsis thaliana (L.) Heynh. with modified control of aspartate kinase by threonine. Heremans B, et al. **Biochem Genet** 1997 Apr;35(3–4):139–53

Engineering of the aspartate family biosynthetic pathway in barley (Hordeum vulgare L.) by transformation with heterologous genes encoding feed-back-insensitive aspartate kinase and dihydrodipicolinate synthase. Brinch-Pedersen H, et al. **Plant Mol Biol** 1996 Nov; 32(4):611–20

Molecular characterization of an Arabidopsis thaliana cDNA coding for a monofunctional aspartate kinase. Frankard V, et al. **Plant Mol Biol** 1997 May;34(2):233–42

Cloning and expression of an Arabidopsis thaliana cDNA encoding a monofunctional aspartate kinase homologous to the lysine-sensitive enzyme of Escherichia coli. Tang G, et al. **Plant Mol Biol** 1997 May;34(2):287–93

ISOLATION & PURIFICATION

A mutant of Arabidopsis thaliana (L.) Heynh. with modified control of aspartate kinase by threonine. Heremans B, et al. **Biochem Genet** 1997 Apr;35(3–4):139–53

METABOLISM

Specificity of aspartokinase III from Escherichia coli and an examination of important catalytic residues. Keng YF, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):73–81

Biosynthesis of diaminopimelate, the precursor of lysine and a component of peptidoglycan, is an essential function of Mycobacterium smegmatis. Pavelka MS Jr, et al. **J Bacteriol** 1996 Nov;178(22):6496–507

FKBP12 physically and functionally interacts with aspartokinase in Saccharomyces cerevisiae. Alarcón CM, et al. **Mol Cell Biol** 1997 Oct;17(10):5968–75

ASPARTATE-SEMIALDEHYDE DEHYDROGENASE

GENETICS

Complete nucleotide sequence of the Campylobacter jejuni 72Dz asd gene. Pawelec D, et al. **Acta Microbiol Pol** 1996; 45(3–4):299–304

Characterization of Campylobacter jejuni asd gene cloned in Escherichia coli. Raczyńska-Pawelec A, et al. **Acta Microbiol Pol** 1995;44(3–4):227–41

Comparison of the gene expression of aspartate beta-D-semialdehyde dehydrogenase at elevated hydrostatic pressure in deep-sea bacteria. Kato C, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):717–23

Molecular genetic analysis of the region containing the essential Pseudomonas aeruginosa asd gene encoding aspartate-beta-semialdehyde dehydrogenase. Hoang TT, et al. **Microbiology** 1997 Mar;143 (Pt 3):899–907

ASPARTATE TRANSCARBAMYLASE see **ASPARTATE CARBAMOYLTRANSFERASE**

ASPARTIC ACID

Aspartate 196 in the first extracellular loop of the human VIP1 receptor is essential for VIP binding and VIP-stimulated cAMP production. Du K, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):289–92

Importance of aspartate-70 in organophosphate inhibition, oxime re-activation and aging of human butyrylcholinesterase. Masson P, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):53–61

Asp-49 is not an absolute prerequisite for the enzymic activity of low-M(r) phospholipases A2: purification, characterization and computer modelling of an enzymically active Ser-49 phospholipase A2, ecarpholin S, from the venom of Echis carinatus sochureki (saw-scaled viper). Polgár J, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):961–8

Evidence that the carboxy groups of Asp158 in papain and caricain have abnormally low pKa values and thus do not contribute the key ionisations with pKa 4 that generate catalytic competence. Noble M, et al. **Biochem Soc Trans** 1997 Feb;25(1):90S

Effects of site-specific mutations on the kinetically influential ionizations of papain. Watts A, et al. **Biochem Soc Trans** 1997 Feb;25(1):84S

Mannanase A from Pseudomonas fluorescens ssp. cellulosa is a retaining glycosyl hydrolase in which E212 and E320 are the putative catalytic residues. Bolam DN, et al. **Biochemistry** 1996 Dec 17;35(50):16195–204

Effects of Asp residues near the L-side pigments in bacterial reaction centers. Heller BA, et al. **Biochemistry** 1996 Dec

3;35(48):15418–27
Structural and functional significance of aspartic acid 89 of the troponin C central helix in Ca2+ signaling. Ramakrishnan S, et al. **Biochemistry** 1996 Dec 3; 35(48):15515–21
Phospholipase A2 engineering. Structural and functional roles of the highly conserved active site residue aspartate–99. Sekar K, et al. **Biochemistry** 1997 Mar 18; 36(11):3104–14
Evidence that aspartate–85 has a higher pK(a) in all–trans than in 13–cisbacteriorhodopsin. Balashov SP, et al. **Biophys J** 1996 Oct;71(4):1973–84
The residues Leu 93 and Asp 96 act independently in the bacteriorhodopsin photocycle: studies with the leu 93—>Ala, Asp 96—>Asn double mutant. Delaney JK, et al. **Biophys J** 1996 May;70(5):2366–72
Effect of mutations on the sensitivity of human beta–cell glucokinase to liver regulatory protein. Veiga–da–Cunha M, et al. **Diabetologia** 1996 Oct;39(10):1173–9
The influence of aspartate 26 on the tautomeric forms of folate bound to Lactobacillus casei dihydrofolate reductase. Birdsall B, et al. **FEBS Lett** 1997 Feb 3;402(2–3):157–61
Identification of Asp804 and Asp808 as Na+ and K+ coordinating residues in alpha–subunit of renal Na,K–ATPase. Pedersen PA, et al. **FEBS Lett** 1997 Jan 3;400(2):206–10
Substitutions of Ser for Asn–163 and Pro for Leu–264 are important for stabilization of lipase from Pseudomonas aeruginosa. Shinkai A, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):915–21
Uncoupled phosphorylation and activation in bacterial chemotaxis. The 2.3 A structure of an aspartate to lysine mutant at position 13 of CheY. Jiang M, et al. **J Biol Chem** 1997 May 2;272(18):11850–5
The role of Asp578 in maintaining the inactive conformation of the human lutropin/choriogonadotropin receptor. Kosugi S, et al. **J Biol Chem** 1996 Dec 13;271(50):31813–7
Conversion of serine to aspartate imitates phosphorylation–induced changes in the structure and function of microtubule–associated protein tau. Léger J, et al. **J Biol Chem** 1997 Mar 28;272(13):8441–6
Switch of coenzyme specificity of mouse lung carbonyl reductase by substitution of threonine 38 with aspartic acid. Nakanishi M, et al. **J Biol Chem** 1997 Jan 24;272(4):2218–22
A single nucleotide change in the E protein gene of dengue virus 2 Mexican strain affects neurovirulence in mice. Sánchez IJ, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2541–5
High–resolution structures of the ligand binding domain of the wild–type bacterial aspartate receptor. Yeh JI, et al. **J Mol Biol** 1996 Sep 20;262(2):186–201
Structural relationship between a bacterial developmental protein and eukaryotic PP2C protein phosphatases. Adler E, et al. **Mol Microbiol** 1997 Jan;23(1):57–62
Aspartic acid 413 is important for the normal allosteric functioning of ADP–glucose pyrophosphorylase. Greene TW, et al. **Plant Physiol** 1996 Nov;112(3):1315–20
[Endogenous free D–aspartate and D–serine in mammals] Hashimoto A, et al. **Seikagaku** 1996 Aug;68(8):1458–62 (17 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Magnesium in the prophylaxis of migraine—a double–blind placebo–controlled study. Pfaffenrath V, et al. **Cephalalgia** 1996 Oct;16(6):436–40
Supplementation of aspartate, asparagine and carnitine in the diet causes marked changes in the ultrastructure of soleus muscle. Lancha Júnior AH, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):405–8
Aspartate/glutamate–enriched blood does not improve myocardial energy metabolism during ischemia–reperfusion: a 31P magnetic resonance spectroscopic study in isolated pig hearts. Ghomeshi HR, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1068–77; discussion 1077–80
[The effect of continuous perfusion with St. Thomas' Hospital cardioplegic solution containing glucose, insulin and L–aspartate on functional recovery after myocardial preservation in the rat] Shimada Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1742–8 (Eng. Abstr.) **(Jpn)**

ANALOGS & DERIVATIVES

Proton MR spectroscopy of childhood adrenoleukodystrophy. Rajanayagam V, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1013–24
Decreased left frontal lobe N–acetylaspartate in schizophrenia. Deicken RF, et al. **Am J Psychiatry** 1997 May;154(5):688–90
Assay of Escherichia coli dihydroorotase with enantiomeric substrate: practical preparation of carbamyl L–aspartate and high–performance liquid chromatography analysis of catalysis product. Daniel R, et al. **Anal Biochem** 1996 Aug 1;239(2):130–5
Reduced hippocampal volume and n–acetyl aspartate in posttraumatic stress disorder. Schuff N, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:516–20
Hippocampal N–acetylaspartate in neocortical epilepsy and mesial temporal lobe epilepsy. Vermathen P, et al. **Ann Neurol** 1997 Aug;42(2):194–9
Synthesis of an amino acid analogue to incorporate p–aminobenzyl–EDTA in peptides. Song AI, et al. **Bioconjug Chem** 1997 Mar–Apr;8(2):249–52
In vivo proton magnetic resonance spectroscopy of Alzheimer's disease in the parietal and temporal lobes. Frederick BB, et al. **Biol Psychiatry** 1997 Jul 15; 42(2):147–50
Proton magnetic resonance spectroscopy of basal ganglia in chronic schizophrenia. Fujimoto T, et al. **Biol Psychiatry** 1996 Jul 1;40(1):14–8
Neuronal maturation and N–acetyl–L–aspartic acid development in human fetal and child brains. Kato T, et al. **Brain Dev** 1997 Mar;19(2):131–3
Identification of N–acetylaspartate in the lens of the vertebrate eye: a new model for the investigation of the function of N–acetylated amino acids in vertebrates [letter] Baslow MH, et al. **Exp Eye Res** 1997 Feb;64(2):283–6
Proton magnetic resonance spectroscopy in dementia of Alzheimer type. Heun R, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):349–58
Design of protecting groups for the beta–carboxylic group of aspartic acid that minimize base–catalyzed aspartimide formation. Karlström A, et al. **Int J Pept Protein Res** 1996 Oct;48(4):305–11
Phase I trial of fluorouracil modulation by N–phosphonacetyl–L–aspartate and 6–methylmercaptopurine ribonucleoside (MMPR), and leucovorin in patients with advanced cancer. Hageboutros A, et al. **Invest New Drugs** 1997;15(2):139–45
1H magnetic resonance spectroscopy reveals neuronal injury in a simian immunodeficiency virus macaque model. Tracey I, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):21–7
Mutagenesis and chemical rescue indicate residues involved in beta–aspartyl–AMP formation by Escherichia coli asparagine synthetase B. Boehlein SK, et al. **J Biol Chem** 1997 May 9;272(19):12384–92
Lactate accumulation during moderate hypoxic hypoxia in neocortical rat brain. Payen JF, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1345–52
Observing N–acetyl aspartate via both its N–acetyl and its strongly coupled aspartate groups in in vivo proton magnetic resonance spectroscopy. Wilman AH, et al. **J Magn Reson B** 1996 Dec;113(3):203–13
Aspartic acid conjugates of 2–(3,4–dichlorophenyl)–N–methyl–N–[(1S)–1(3–aminophenyl)–2–(1–pyrrolidi nyl) ethyl]acetamide: kappa opioid receptor agonists with limited access to the central nervous system. Chang AC, et al. **J Med Chem** 1996 Oct 25;39(22):4478–82
A review of phylogenetic and metabolic relationships between the acylamino acids, N–acetyl–L–aspartic acid and N–acetyl–L–histidine, in the vertebrate nervous system. Baslow MH. **J Neurochem** 1997 Apr;68(4):1335–44 (50 ref.)
Mast cells contain large quantities of secretagogue–sensitive N–acetylaspartate. Burlina AP, et al. **J Neurochem** 1997 Sep;69(3):1314–7
Brain tissue acidosis: effects on the extracellular concentration of N–acetylaspartate. Gotoh M, et al. **J Neurochem** 1997 Aug;69(2):655–61
Transient elevation of interstitial N–acetylaspartate in reversible global brain ischemia. Sager TN, et al. **J Neurochem** 1997 Feb;68(2):675–82
Decreased N–acetyl–aspartate/choline ratio and increased lactate in the frontal lobe of patients with Huntington's disease: a proton magnetic resonance spectroscopy study. Harms L, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan; 62(1):27–30
Contrast enhancement of PC–3 prostate cancer for magnetic resonance imaging: animal studies using tumor–localizing Mn–metalloporphyrin (THF–Mn–Asp). Suzuki T, et al. **J Urol** 1996 Nov;156(5):1850–2
Correlation of seizure frequency with N–acetyl–aspartate levels determined by 1H magnetic resonance spectroscopic imaging. Garcia PA, et al. **Magn Reson Imaging** 1997; 15(4):475–8
Lactate, N–acetylaspartate, choline and creatine concentrations, and spin–spin relaxation in thalamic and occipito–parietal regions of developing human brain. Cady EB, et al. **Magn Reson Med** 1996 Dec;36(6):878–86
Effects of severe global ischemia on N–acetylaspartate and other metabolites in the rat brain. Higuchi T, et al. **Magn Reson Med** 1997 Jun;37(6):851–7
Estimating NAA in cortical gray matter with applications for measuring changes due to aging. Lim KO, et al. **Magn Reson Med** 1997 Mar;37(3):372–7
Inefficient growth arrest in response to dNTP starvation stimulates gene amplification through bridge–breakage–fusion cycles. Poupon MF, et al. **Mol Biol Cell** 1996 Mar;7(3):345–54
Inhibition of the interleukin–1 beta converting enzyme family rescues neurons from apoptotic death. Lynch T, et al. **Mol Psychiatry** 1997 May;2(3):227–38
A possible role for topoisomerase II in cell death and N–phosphonoacetyl–L–aspartate–resistance frequency and its enhancement by 1–beta–D–arabinofuranosyl cytosine and 5–fluoro–2'–deoxyuridine. Goz B, et al. **Mutat Res** 1997 Aug;384(2):89–106
Metabolism of N–acetyl–L–aspartate in rat brain. Miller SL, et al. **Neurochem Res** 1996 May;21(5):615–8
Changes in putamen N–acetylaspartate and choline ratios in untreated and levodopa–treated Parkinson's disease: a proton magnetic resonance spectroscopy study. Ellis CM, et al. **Neurology** 1997 Aug;49(2):438–44
Inhibition of N–acetylaspartate production: implications for 1H MRS studies in vivo. Bates TE, et al. **Neuroreport** 1996 May 31;7(8):1397–400
Effect on the content of n–acetylaspartate, total creatine, choline containing compounds, and lactate in the hippocampus of rats exposed to aromatic white spirit for three weeks measured by NMR spectroscopy. Steensgaard A, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):785–92
Differential distribution of NAA and NAAG in human brain as determined by quantitative localized proton MRS. Pouwels PJ, et al. **NMR Biomed** 1997 Apr;10(2):73–8
Multiple mechanisms of N–phosphonacetyl–L–aspartate resistance in human cell lines: carbamyl–P synthetase/aspartate transcarbamylase/dihydro–orotase gene amplification is frequent only when chromosome 2 is rearranged. Smith KA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1816–21
An in vivo proton magnetic resonance spectroscopy study of schizophrenia patients. Stanley JA, et al. **Schizophr Bull** 1996;22(4):597–609
Induction of heat shock protein 70 by zinc–bis–(DL–hydrogenaspartate) reduces cytokine liberation, apoptosis, and mortality rate in a rat model of LD100 endotoxemia. Klosterhalfen B, et al. **Shock** 1997 Apr;7(4):254–62
Evidence that resistance to osmotic stress is mediated by gene amplification. Harris M. **Somat Cell Mol Genet** 1997 Jan; 23(1):19–25
Inhibition of vaccinia virus replication by N–(phosphonoacetyl)–L–aspartate: differential effects on viral gene expression result from a reduced pyrimidine nucleotide pool. Katsafanas GC, et al. **Virology** 1997 Sep 15;236(1):177–87
[Effect of aspartic acid derivatives, N–acetyl–aspartate and its phosphonic analog PIR–87–6–0, on dopamine release from the rat striatum during perfusion in vitro] Budygin EA, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):57–60 **(Rus)**
[N–butylaspartic acid—a partial agonist of NMDA receptors?] Kamri M, et al. **Eksp Klin Farmakol** 1996 May–Jun;59(3):9–11 (Eng. Abstr.) **(Rus)**
[The stress–protector properties of new analogs of mediator amino acids] Petrov VI, et al. **Eksp Klin Farmakol** 1996 Sep–Oct;59(5):6–8 (Eng. Abstr.) **(Rus)**

ANALYSIS

Spectrophotometric assay of D–aspartate and D–glutamate using D–aspartate oxidase with malate dehydrogenase and glutamate dehydrogenase. Wakayama M, et al. **Anal Biochem** 1997 Aug 1;250(2):252–3
D–aspartic acid localization during postnatal development of rat adrenal gland. Sakai K, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):433–6
In vivo blockade of thalamic GABA(B) receptors increases excitatory amino–acid levels. Nyitrai G, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):295–300
Extracellular aspartate concentration increases in nucleus accumbens after cocaine sensitization. Robinson SE, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):31–6
The development of excitatory transmitter amino acid–containing neurons in the rat visual cortex. A light and electron microscopic immunocytochemical study. Dori I, et al. **Exp Brain Res** 1996 Aug;110(3):347–59
Immunohistochemical studies of localization and co–localization of glutamate, aspartate and GABA in the anterior thalamic nuclei, retrosplenial granular cortex, thalamic reticular nucleus and mammillary nuclei of the rat. Gonzalo–Ruiz A, et al. **J Chem Neuroanat** 1996 Dec; 12(2):77–84
Improved method for the measurement of glutamate and aspartate using capillary electrophoresis with laser induced fluorescence detection and its application to brain microdialysis. Dawson LA, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):455–60
Glutamate and aspartate immunoreactive neurons of the rat basolateral amygdala: colocalization of excitatory amino acids and projections to the limbic circuit. Mcdonald AJ. **J Comp Neurol** 1996 Feb 12;365(3):367–79
D–aspartate localizations imply neuronal and neuroendocrine roles. Schell MJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2013–8
Glutamate immunoreactivity in the cat retina: a quantitative study. Jojich L, et al. **Vis Neurosci** 1996 Jan–Feb; 13(1):117–33
[Age determination by measurement of the ratio of D– and L– forms of aspartic acid. II. Chiral separation of amino acids from human dentin] Pilin A, et al. **Soud Lek** 1997 Feb;42(1):12–6 (Eng. Abstr.) **(Cze)**
[Present possibilities of age determination in forensic medicine with emphasis on the importance of measurement of D– and L– forms of aspartic acid. I. An overview] Pilin A, et al. **Soud Lek** 1997 Feb;42(1):9–11 (Eng. Abstr.) **(Cze)**

BIOSYNTHESIS

Streptomyces akiyoshiensis differs from other gram–positive bacteria in the organization of a core biosynthetic pathway gene for aspartate family amino acids. Le Y, et al. **Microbiology** 1996 Apr;142 (Pt 4):791–8
Engineering of the aspartate family biosynthetic pathway in barley (Hordeum vulgare L.) by transformation with

heterologous genes encoding feed-back-insensitive aspartate kinase and dihydrodipicolinate synthase. Brinch-Pedersen H, et al. **Plant Mol Biol** 1996 Nov; 32(4):611-20

CEREBROSPINAL FLUID

Increased cerebrospinal fluid concentration of aspartate but decreased concentration of nitric oxide breakdown products in women experiencing visceral pain during active labour. Olofsson C, et al. **Neuroreport** 1997 Mar 3; 8(4):995-8

High levels of cerebrospinal fluid glutamate in Rett syndrome. Lappalainen R, et al. **Pediatr Neurol** 1996 Oct; 15(3):213-6

CHEMISTRY

Enzyme-substrate interaction in the catalytic triad of serine proteases: increase in the pKa of Asp102 [letter] Neuvonen H. **Biochem J** 1997 Feb 15;322 (Pt 1):351-2

How enzymes control the reactivity of adenosylcobalamin: effect on coenzyme binding and catalysis of mutations in the conserved histidine-aspartate pair of glutamate mutase. Chen HP, et al. **Biochemistry** 1997 Jun 24;36(25):7884-9

Time-resolved titrations of ASP-85 in bacteriorhodopsin: the multicomponent kinetic mechanism. Friedman N, et al. **Biochemistry** 1997 Sep 23;36(38):11369-80

Interaction between Asp-85 and the proton-releasing group in bacteriorhodopsin. A study of an O-like photocycle intermediate. Gat Y, et al. **Biochemistry** 1997 Apr 8; 36(14):4135-48

Ion-pair and charged hydrogen-bond interactions between histidine and aspartate in a peptide helix. Huyghues-Despointes BM, et al. **Biochemistry** 1997 Feb 25;36(8):1965-70

Aspartate-407 in Rhodobacter sphaeroides cytochrome c oxidase is not required for proton pumping or manganese binding. Qian J, et al. **Biochemistry** 1997 Mar 4; 36(9):2539-43

Ribonuclease T1 is active when both catalytic histidines are replaced by aspartate. Landt O, et al. **Biol Chem** 1997 Jun; 378(6):553-8

Conservation of amino acids in multiple alignments: aspartic acid has unexpected conservation. Fiser A, et al. **FEBS Lett** 1996 Nov 18;397(2-3):225-9

Aspartate-474 in the first exoplasmic loop of the thyrotropin receptor is crucial for receptor activation. Kosugi S, et al. **FEBS Lett** 1997 Apr 7;406(1-2):139-41

Hb J-Baltimore [beta 16(A13)Gly-->Asp] associated with beta(+)-thalassemia in a Spanish family. Arribalzaga K, et al. **Hemoglobin** 1996 Feb;20(1):79-84

HB Swan River [alpha 6(A4)ASP-->Gly] observed in a Japanese man. Harano T, et al. **Hemoglobin** 1996 Feb; 20(1):75-8

Kinetic study of racemization of aspartyl residues in model peptides of alpha A-crystallin. Fujii N, et al. **Int J Pept Protein Res** 1996 Aug;48(2):118-22

Design of protecting groups for the beta-carboxylic group of aspartic acid that minimize base-catalyzed aspartimide formation. Karlström A, et al. **Int J Pept Protein Res** 1996 Oct;48(4):305-11

The effects of aspartic acid-bond isomerization on in vitro properties of the amyloid beta-peptide as modeled with N-terminal decapeptide fragments. Szendrei GI, et al. **Int J Pept Protein Res** 1996 Apr;47(4):289-96

Bond-specific chemical cleavages of peptides and proteins with perfluoric acid vapors: novel peptide bond cleavages of glycyl-threonine, the amino side of serine residues and the carboxyl side of aspartic acid residues. Kawakami T, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):68-76

Asp804 and Asp808 in the transmembrane domain of the Na,K-ATPase alpha subunit are cation coordinating residues. Kuntzweiler TA, et al. **J Biol Chem** 1996 Nov 22;271(47):29682-7

Ionization states of the catalytic residues in HIV-1 protease. Smith R, et al. **Nat Struct Biol** 1996 Nov;3(11):946-50

Ultrastructural localization of glutamate and aspartate immunoreactivities in gerbil inner hair cells. Liu TC. **ORL J Otorhinolaryngol Relat Spec** 1997 May-Jun; 59(3):131-4

Proposal for new catalytic roles for two invariant residues in Escherichia coli ribonuclease HI. Kashiwagi T, et al. **Protein Eng** 1996 Oct;9(10):857-67

The 'Asx-Pro turn' as a local structural motif stabilized by alternative patterns of hydrogen bonds and a consensus-derived model of the sequence Asn-Pro-Asn. Wilson DR, et al. **Protein Eng** 1997 May;10(5):519-29

Beta-methylthio-aspartic acid: identification of a novel posttranslational modification in ribosomal protein S12 from Escherichia coli. Kowalak JA, et al. **Protein Sci** 1996 Aug;5(8):1625-32

Genetic diagnosis of dysplasminogenemia: detection of an Ala601-Thr mutation in 118 out of 125 families and identification of a new Asp676-Asn mutation. Tsutsumi S, et al. **Thromb Haemost** 1996 Aug;76(2):135-8

[Lysine residue as an amino acid substitute for conformational constraint of Xaa-Asp fragment of biologically active peptides using side chain lactamization] Kostetskii PV, et al. **Bioorg Khim** 1997 Mar;23(3):168-73 (Eng. Abstr.) **(Rus)**

GENETICS

Gly(247)-->Asp proenkephalin A mutation is rare in schizophrenia populations. Mikesell MJ, et al. **Am J Med Genet** 1997 Apr 18;74(2):213-5

Effects of two hypertrophic cardiomyopathy mutations in alpha-tropomyosin, Asp175Asn and Glu180Gly, on Ca2+ regulation of thin filament motility. Bing W, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):760-4

Effects of buried charged groups on cysteine thiol ionization and reactivity in Escherichia coli thioredoxin: structural and functional characterization of mutants of Asp 26 and Lys 57. Dyson HJ, et al. **Biochemistry** 1997 Mar 4; 36(9):2622-36

Effects of mutations of aspartic acid 63 on the metal-binding properties of the recombinant N-lobe of human serum transferrin. He QY, et al. **Biochemistry** 1997 May 6; 36(18):5522-8

Functional effects on the acetylcholine receptor of multiple mutations of gamma Asp174 and delta Asp180. Martin MD, et al. **Biochemistry** 1997 Sep 2;36(35):10742-50

Mutagenesis and crystallographic studies of Zymomonas mobilis tRNA-guanine transglycosylase reveal aspartate 102 as the active site nucleophile. Romier C, et al. **Biochemistry** 1996 Dec 10;35(49):15734-9

The T transcription factor functions as a dimer and exhibits a common human polymorphism Gly-177-Asp in the conserved DNA-binding domain. Papapetrou C, et al. **FEBS Lett** 1997 Jun 9;409(2):201-6

Inhibition of the M1-->M2 (M(closed) --> M(open)) transition in the D96N mutant photocycle and its relation to the corresponding transition in wild-type bacteriorhodopsin. Radionov AN, et al. **FEBS Lett** 1997 Jun 9;409(2):137-40

IMMUNOLOGY

Glutamate and aspartate immunoreactivity in the reciprocal projections between the anterior thalamic nuclei and the retrosplenial granular cortex in the rat. Gonzalo-Ruiz A, et al. **Brain Res Bull** 1997;42(4):309-21

Recognition of phage-expressed peptides containing Asx-Pro sequences by monoclonal antibodies produced against Plasmodium falciparum circumsporozoite protein. Wilson DR, et al. **Protein Eng** 1997 May;10(5):531-40

METABOLISM

Release of taurine and its effects on release of neurotransmitter amino acids in rat cerebral cortex. Kamisaki Y, et al. **Adv Exp Med Biol** 1996;403:445-54

Circadian rhythm and response to light of extracellular glutamate and aspartate in rat suprachiasmatic nucleus. Honma S, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R579-85

Mercuric chloride uncouples glutamate uptake from the countertransport of hydroxyl equivalents. Nagaraja TN, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1487-93

Changes in myocardial concentration of glutamate and aspartate during coronary artery surgery. Suleiman MS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1063-9

Deficient glutamate transport is associated with neurodegeneration in Alzheimer's disease. Masliah E, et al. **Ann Neurol** 1996 Nov;40(5):759-66

Immunohistochemical localization of D-aspartate in the rat pineal gland. Lee JA, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):505-8

Interaction of aspartic acid-104 and proline-287 with the active site of m-calpain. Arthur JS, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):535-41

A critical amino acid residue, asp446, in UDP-glucuronosyltransferase. Iwano H, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):587-91

Actions of the anticonvulsant agent 2-amino-4-phosphonobutyrate on the release of [3H]D-aspartate from rat forebrain slices. Sundaralingam J, et al. **Biochem Soc Trans** 1996 May;24(2):294S

Identification of cysteine-523 in the aspartate binding site of Escherichia coli asparagine synthetase B. Boehlein SK, et al. **Biochemistry** 1997 Aug 19;36(33):10168-77

Trichodiene synthase. Probing the role of the highly conserved aspartate-rich region by site-directed mutagenesis. Cane DE, et al. **Biochemistry** 1996 Sep 24; 35(38):12369-76

Cytoplasmic disposition of aspartate 821 in anion exchanger from human erythrocytes. Erickson HK. **Biochemistry** 1997 Aug 19;36(33):9958-67

Trp86 --> Phe replacement in bacteriorhodopsin affects a water molecule near Asp85 and light adaptation. Hatanaka M, et al. **Biochemistry** 1997 May 6;36(18):5493-8

Producing positive, negative, and no cooperativity by mutations at a single residue located at the subunit interface in the aspartate receptor of Salmonella typhimurium. Kolodziej AF, et al. **Biochemistry** 1996 Nov 26; 35(47):14782-92

Role of aspartate 70 and tryptophan 82 in binding of succinyldithiocholine to human butyrylcholinesterase. Masson P, et al. **Biochemistry** 1997 Feb 25;36(8):2266-77

Design, synthesis, and in vitro activities of benzamide-core glycoprotein IIb/IIIa antagonists: 2,3-diaminopropionic acid derivatives as surrogates of aspartic acid. Xue CB, et al. **Bioorg Med Chem** 1997 Apr;5(4):693-705

Metabotropic glutamate receptors, transmitter output and fatty acids: studies in rat brain slices. Lombardi G, et al. **Br J Pharmacol** 1996 Jan;117(1):189-95

Extracellular levels of glutamate and aspartate in the entopeduncular nucleus of the rat determined by microdialysis: regulation by striatal dopamine D2 receptors via the indirect striatal output pathway? Biggs CS, et al. **Brain Res** 1997 Apr 4;753(1):163-75

Putative excitatory amino acid projections to the suprachiasmatic nucleus in the rat. Moga MM, et al. **Brain Res** 1996 Dec 16;743(1-2):171-7

Mechanisms of glutamate and aspartate release in the ischemic rat cerebral cortex. Phillis JW, et al. **Brain Res** 1996 Aug 19;730(1-2):150-64

Aspartate is enriched in sensory cells and subpopulations of non-neuronal cells in the guinea pig inner ear: a quantitative immunoelectron microscopic analysis. Usami S, et al. **Brain Res** 1996 Dec 2;742(1-2):43-9

Distribution of D-aspartate oxidase and free D-glutamate and D-aspartate in chicken and pigeon tissues. Kera Y, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep;115(1):121-6

Evidence for increased cellular uptake of glutamate and aspartate in the rat hippocampus during kainic acid seizures. A microdialysis study using the 'indicator diffusion' method. Bruhn T, et al. **Epilepsy Res** 1997 Jan;26(2):363-71

Evidence for release of glutamic acid, aspartic acid and substance P but not gamma-aminobutyric acid from primary afferent fibres in rat spinal cord. Teoh H, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):27-36

Glutamate, aspartate and co-localization with calbindin in the medial thalamus. An immunohistochemical study in the rat. Frassoni C, et al. **Exp Brain Res** 1997 Jun;115(1):95-104

Evidence for collateral projections to the retrosplenial granular cortex and thalamic reticular nucleus from glutamate and/or aspartate-containing neurons of the anterior thalamic nuclei in the rat. Gonzalo-Ruiz A, et al. **Exp Brain Res** 1997 Aug;116(1):63-72

Impairment of excitatory amino acid transporter activity by oxidative stress conditions in retinal cells: effect of antioxidants. Agostinho P, et al. **FASEB J** 1997 Feb; 11(2):154-63

Signal transduction via the histidyl-aspartyl phosphorelay. Egger LA, et al. **Genes Cells** 1997 Mar;2(3):167-84 (148 ref.)

Free alanine, aspartic acid, or glutamic acid reduce the glycation of human lens proteins. Ramakrishnan S, et al. **Glycoconj J** 1996 Aug;13(4):519-23

D-aspartate content of erythrocyte membrane proteins is decreased in uremia: implications for the repair of damaged proteins. Perna AF, et al. **J Am Soc Nephrol** 1997 Jan; 8(1):95-104

Biosynthesis of diaminopimelate, the precursor of lysine and a component of peptidoglycan, is an essential function of Mycobacterium smegmatis. Pavelka MS Jr, et al. **J Bacteriol** 1996 Nov;178(22):6496-507

Negatively charged anabaena flavodoxin residues (Asp144 and Glu145) are important for reconstitution of cytochrome P450 17alpha-hydroxylase activity. Jenkins CM, et al. **J Biol Chem** 1997 Sep 5;272(36):22509-13

Evidence for electron transfer-dependent formation of a nitrogenase iron protein-molybdenum-iron protein tight complex. The role of aspartate 39. Lanzilotta WN, et al. **J Biol Chem** 1997 Feb 14;272(7):4157-65

Aspartate 19 and glutamate 121 are critical for transport function of the myo-inositol/H+ symporter from Leishmania donovani. Seyfang A, et al. **J Biol Chem** 1997 Sep 26;272(39):24210-5

Mammalian cell death proteases: a family of highly conserved aspartate specific cysteine proteases. Alnemri ES. **J Cell Biochem** 1997 Jan;64(1):33-42 (45 ref.)

Distribution and role of aspartate in the nervous system of the chaetognath Sagitta. Duvert M, et al. **J Comp Neurol** 1997 Apr 21;380(4):485-94

Anatomical evidence for glutamate and/or aspartate as neurotransmitters in the geniculo-, claustro-, and cortico-cortical pathways to the cat striate cortex. Pérez-Cerdá F, et al. **J Comp Neurol** 1996 Sep 23; 373(3):422-32

Glutamatergic connections of the auditory midbrain: selective uptake and axonal transport of D-[3H]aspartate. Saint Marie RL. **J Comp Neurol** 1996 Sep 16;373(2):255-70

Human lysosomal acid lipase/cholesteryl ester hydrolase and human gastric lipase: identification of the catalytically active serine, aspartic acid, and histidine residues. Lohse P, et al. **J Lipid Res** 1997 May;38(5):892-903

Post-translational modification from methionine to aspartic acid-residue on a variant hemoglobin, Hb Bristol, a proof by ESI-MS-MS [letter] Miyazaki A, et al. **J Mass Spectrom** 1996 Nov;31(11):1311-3

Rapid swelling of a CHO-K1 aspartate/glutamate transport mutant in hypo-osmotic medium. Tong X, et al. **J Membr Biol** 1997 Mar 15;156(2):131-9

L-aspartate but not the D form is secreted through microvesicle-mediated exocytosis and is sequestered through Na+-dependent transporter in rat pinealocytes. Yatsushiro S, et al. **J Neurochem** 1997 Jul;69(1):340-7

Release of [3H]-D-aspartate from primary astrocyte cultures in response to raised external potassium. Rutledge EM, et al. **J Neurosci** 1996 Dec 15;16(24):7803-11

The role of a single aspartate residue in ionic selectivity and block of a murine inward rectifier K+ channel Kir2.1. Abrams CJ, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):643-9

Aspartate transport by the Dct system in Rhizobium

leguminosarum negatively affects nitrogen-regulated operons. Reid CJ, et al. **Microbiology** 1996 Sep;142 (Pt 9):2603-12

Residues in the WD repeats of Tup1 required for interaction with alpha2. Komachi K, et al. **Mol Cell Biol** 1997 Oct; 17(10):6023-8

A glutamate/glutamine/aspartate/asparagine transport operon in Rhodobacter capsulatus. Zheng S, et al. **Mol Microbiol** 1996 Jun;20(5):1001-11

Unchanged basal ganglia N-acetylaspartate and glutamate in idiopathic Parkinson's disease measured by proton magnetic resonance spectroscopy. Clarke CE, et al. **Mov Disord** 1997 May;12(3):297-301

Aspartate residue 7 in amyloid beta-protein is critical for classical complement pathway activation: implications for Alzheimer's disease pathogenesis. Velazquez P, et al. **Nat Med** 1997 Jan;3(1):77-9

Bicarbonate-sensitive cysteine induced elevation of extracellular aspartate and glutamate in rat hippocampus in vitro. Abbas AK, et al. **Neurochem Int** 1997 Mar; 30(3):253-9

Characterization of glutamate and [3H]D-aspartate outflow from various in vitro preparations of the rat hippocampus. Muzzolini A, et al. **Neurochem Int** 1997 Jul;31(1):113-24

Kainic acid, AMPA, and dihydrokainic acid effect on uptake and efflux of D-[3H] aspartic acid in cerebellar slices. Bouazzaoui M, et al. **Neurochem Res** 1996 Dec; 21(12):1527-33

Differences in the release of L-glutamate and D-aspartate from primary neuronal chick cultures. Lewin L, et al. **Neurochem Res** 1996 Jan;21(1):79-85

Glutamate receptor agonists evoked Ca(2+)-dependent and Ca(2+)-independent release of [3H]D-aspartate from cultured chick retina cells. Santos PF, et al. **Neurochem Res** 1996 Mar;21(3):361-8

Effectors of D-[3H]aspartate release from rat cerebellum. Svarna R, et al. **Neurochem Res** 1996 May;21(5):603-8

Reduced brain N-acetyl-aspartate in frontal lobes suggests neuronal loss in patients with amyotrophic lateral sclerosis. Giroud M, et al. **Neurol Res** 1996 Jun;18(3):241-3

The effects of ethanol on striatal dopamine and frontal cortical D-[3H]aspartate efflux oscillate with repeated treatment. Relevance to individual differences in drug responsiveness. Caggiula AR, et al. **Neuropsychopharmacology** 1996 Aug;15(2):125-32

On the release of glutamate and aspartate in the basal ganglia of the rat: interactions with monoamines and neuropeptides. Herrera-Marschitz M, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):489-95 (73 ref.)

Release of the excitotoxic amino acids, glutamate and aspartate, from the isolated ischemic/anoxic rat heart. Song D, et al. **Neurosci Lett** 1996 Dec 6;220(1):1-4

In vivo elevation of extracellular potassium in the rat amygdala increases extracellular glutamate and aspartate and damages neurons. Fujikawa DG, et al. **Neuroscience** 1996 Oct;74(3):695-706

Evidence for aspartate-immunoreactive neurons in the neostriatum of the rat: modulation by the mesencephalic dopamine pathway via D1-subtype of receptor. Pettersson E, et al. **Neuroscience** 1996 Sep;74(1):51-66

L-2-chloropropionic acid inhibits glutamate and aspartate release from rat cerebellar slices but does not activate cerebellar NMDA receptors: implications for L-2-chloropropionic acid-induced neurotoxicity. Widdowson PS, et al. **Neurotoxicology** 1997;18(1):169-77

Free D-aspartate and D-serine in the mammalian brain and periphery. Hashimoto A, et al. **Prog Neurobiol** 1997 Jul; 52(4):325-53 (351 ref.)

Attractant signaling by an aspartate chemoreceptor dimer with a single cytoplasmic domain [see comments] Gardina PJ, et al. **Science** 1996 Oct 18;274(5286):425-6. Comment in: Science 1996 Oct 18;274(5286):370-1.

Signaling by the Escherichia coli aspartate chemoreceptor Tar with a single cytoplasmic domain per dimer [see comments] Tatsuno I, et al. **Science** 1996 Oct 18; 274(5286):423-5. Comment in: Science 1996 Oct 18;274(5286):370-1.

[The participation of the serotoninergic system in regulating the activity of the central glutamatergic/aspartatergic and GABA-ergic synapses] Grigor'ev IP, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug-Sep;82(8-9):22-7 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Therapeutic availability of iron administered orally as the ferrous gluconate together with magnesium-L-aspartate hydrochloride. Disch G, et al. **Arzneimittelforschung** 1996 Mar;46(3):302-6

Selective excitatory amino acid uptake in glutamatergic nerve terminals and in glia in the rat striatum: quantitative electron microscopic immunocytochemistry of exogenous (D)-aspartate and endogenous glutamate and GABA. Gundersen V, et al. **Eur J Neurosci** 1996 Apr;8(4):758-65

Intracellular acidification of the leech giant glial cell evoked by glutamate and aspartate. Deitmer JW, et al. **Glia** 1997 Feb;19(2):111-22

Age-related changes of sodium-dependent D-[3H]aspartate and [3H]FK506 binding in rat brain. Araki T, et al. **J Neural Transm** 1997;104(2-3):259-67

Inhibition of the high-affinity uptake of D-[3H]aspartate in rate by L-alpha-aminoadipate and arachidonic acid. Lundy DF, et al. **J Neurol Sci** 1996 Aug;139 Suppl:1-9

The rapid L- and D-aspartate uptake in cultured astrocytes. Bender AS, et al. **Neurochem Res** 1997 Jun;22(6):721-6

Size-related properties of vestibular afferent fibers in the frog: uptake of and immunoreactivity for glycine and aspartate/glutamate. Straka H, et al. **Neuroscience** 1996 Feb;70(3):685-96

PHARMACOLOGY

Involvement of aspartate/glutamate antiporter in fatty acid-induced uncoupling of liver mitochondria. Samartsev VN, et al. **Biochim Biophys Acta** 1997 Apr 11; 1319(2-3):251-7

Origin of aspartate-induced responses in rat cerebellar Purkinje cells. Renard A, et al. **Eur J Neurosci** 1996 May; 8(5):978-87

Arginine-aspartate and haloperidol-induced neurobehavioral effects in the rat. Patacchioli FR, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):29-32

Effect of aspartate and glutamate on nociception, catalepsy and core temperature in rats. Singh J, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):123-8

Effects of organic acid and monensin treatment on in vitro mixed ruminal microorganism fermentation of cracked corn. Callaway TR, et al. **J Anim Sci** 1996 Aug; 74(8):1982-9

New beta-hydroxyaspartate derivatives are competitive blockers for the bovine glutamate/aspartate transporter. Lebrun B, et al. **J Biol Chem** 1997 Aug 15;272(33):20336-9

Distribution and role of aspartate in the nervous system of the chaetognath Sagitta. Duvert M, et al. **J Comp Neurol** 1997 Apr 21;380(4):485-94

Invited editorial on "effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest" [editorial; comment] Buckberg GD. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1661-3. Comment on: J Thorac Cardiovasc Surg 1996 Dec;112(6):1651-60.

Effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest [see comments] Reed MK, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1651-60. Comment in: J Thorac Cardiovasc Surg 1996 Dec;112(6):1661-3.

Induction of heat shock protein 70 (HSP70) by zinc bis (DL-hydrogen aspartate) reduces ischemic small-bowel tissue damage in rats. Töns C, et al. **Langenbecks Arch Chir** 1997;382(1):43-8

The role of the aspartate-arginine-tyrosine triad in the m1 muscarinic receptor: mutations of aspartate 122 and tyrosine 124 decrease receptor expression but do not abolish signaling. Lu ZL, et al. **Mol Pharmacol** 1997 Feb; 51(2):234-41

Cholecystokinin modulation of spontaneous and excitatory amino acid-induced activity in the opossum cerebellum. Bishop GA. **Neuropeptides** 1996 Dec;30(6):533-40

Deficits of [3H]D-aspartate binding to glutamate uptake sites in striatal and accumbens tissue in patients with schizophrenia. Aparicio-Legarza MI, et al. **Neurosci Lett** 1997 Aug 22;232(1):13-6

Antibodies to glutamate, aspartate and glycyl-D-aspartate reversibly suppress stimulus-evoked, extracellularly recorded responses in slices of rat neocortex. Meadows KN, et al. **Neurosci Lett** 1996 Sep 13;215(3):141-4

L-aspartate-evoked inhibition of melatonin production in rat pineal glands. Yamada H, et al. **Neurosci Lett** 1997 Jun 6;228(2):103-6

Promoting effect of monosodium aspartate, but not glycine, on renal pelvis and urinary bladder carcinogenesis in rat induced by N-butyl-N-(4-hydroxybutyl)nitrosamine. Kitamura M, et al. **Toxicol Pathol** 1996 Sep-Oct; 24(5):573-9

Antidotal efficacy of glutamate and aspartate for colchicine toxicity. Wang RY, et al. **Vet Hum Toxicol** 1997 Aug; 39(4):207-10

PHYSIOLOGY

Identification of an N-capping box that affects the alpha 6-helix propensity in glutathione S-transferase superfamily proteins: a role for an invariant aspartic residue. Aceto A, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):229-34

Roles of aspartic acid-181 and serine-222 in intermediate formation and hydrolysis of the mammalian protein-tyrosine-phosphatase PTP1. Lohse DL, et al. **Biochemistry** 1997 Apr 15;36(15):4568-75

Aspartate 55 in the Na+/proline permease of Escherichia coli is essential for Na+-coupled proline uptake. Quick M, et al. **Biochemistry** 1997 Apr 15;36(15):4631-6

The type III connecting segment of fibronectin contains an aspartic acid residue that regulates the rate of binding to integrin alpha 4 beta 1. Jongewaard IN, et al. **Cell Adhes Commun** 1996 Apr;3(6):487-95

Role of glutamate and aspartate in epileptogenesis; contribution of microdialysis studies in animal and man. Chapman AG, et al. **Epilepsy Res Suppl** 1996;12:239-46

Identification of essential aspartic acid and histidine residues of hormone-sensitive lipase: apparent residues of the catalytic triad. Osterlund T, et al. **FEBS Lett** 1997 Feb 24;403(3):259-62

Asp-193 and Glu-218 of subunit II are involved in the Mn2+-binding of Paracoccus denitrificans cytochrome c oxidase. Witt H, et al. **FEBS Lett** 1997 Jun 9;409(2):128-30

OHIO-1 beta-lactamase mutants: Asp179Gly mutation confers resistance to ceftazidime. Bonomo RA, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):275-8

A population of supramammillary area calretinin neurons terminating on medial septal area cholinergic and lateral septal area calbindin-containing cells are aspartate/glutamatergic. Leranth C, et al. **J Neurosci** 1996 Dec 1;16(23):7699-710

Activation of N-methyl-D-aspartate receptors by glycine: role of an aspartate residue in the M3-M4 loop of the NR1 subunit. Williams K, et al. **Mol Pharmacol** 1996 Oct; 50(4):701-8

The activation process of the alpha1B-adrenergic receptor: potential role of protonation and hydrophobicity of a highly conserved aspartate. Scheer A, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):808-13

THERAPEUTIC USE

Effect of glutamate-aspartate reperfusion on postischemic neonatal myocardium. Sett SS, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):462-6

TOXICITY

Evaluation of D-amino acid levels in rat by gas chromatography-selected ion monitoring mass spectrometry: no evidence for subacute toxicity of orally fed D-proline and D-aspartic acid. Schieber A, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):1-12

ASPARTIC ACID-SPECIFIC TRNA see **RNA, TRANSFER, ASP**

ASPARTIC PROTEINASES

ANALYSIS

Immunocytochemical localization of prohormone convertases PC1 and PC2 in the anuran pituitary gland: subcellular localization in corticotrope and melanotrope cells. Kurabuchi S, et al. **Cell Tissue Res** 1997 Jun; 288(3):485-96

Immunological identification and localization of yeast aspartic protease 3-like prohormone-processing enzymes in mammalian brain and pituitary. Cawley NX, et al. **Endocrinology** 1996 Nov;137(11):5135-43

Gene expression and autoradiographic localization of endothelin-1 and its receptors A and B in the different zones of the normal human prostate. Prayer-Galetti T, et al. **J Urol** 1997 Jun;157(6):2334-9

Fluorometric determination of acid proteinase activity in vulvovaginal candidosis. Kiliç N, et al. **Mycoses** 1996 Sep-Oct;39(9-10):347-51

Prohormone convertases (PC1/3 and PC2) in rat and human pancreas and islet cell tumors: subcellular immunohistochemical analysis. Itoh Y, et al. **Pathol Int** 1996 Oct;46(10):726-37

ANTAGONISTS & INHIBITORS

HIV protease inhibitors. Carr A, et al. **AIDS** 1996;10 Suppl A:S151-7 (51 ref.)

Characterization of endothelin converting enzyme from intact cells of a permanent human endothelial cell line, EA.hy926. Ahn K, et al. **Biochem Mol Biol Int** 1996 Jun; 39(3):573-80

Crystal structures of the inactive D30N mutant of feline immunodeficiency virus protease complexed with a substrate and an inhibitor. Laco GS, et al. **Biochemistry** 1997 Sep 2;36(35):10696-708

C2-symmetrical tetrahydroxyazepanes as inhibitors of glycosidases and HIV/FIV proteases. Qian X, et al. **Bioorg Med Chem** 1996 Dec;4(12):2055-69

Vasodilator effects of endothelin-converting enzyme inhibition and endothelin ETA receptor blockade in chronic heart failure patients treated with ACE inhibitors. Love MP, et al. **Circulation** 1996 Nov 1;94(9):2131-7

Endothelin in heart failure: a promising therapeutic target? [editorial] Love MP, et al. **Heart** 1997 Feb;77(2):93-4

Stereospecific determination of an HIV aspartyl protease inhibitor, PNU-103017, in rat, dog and human plasma using a Pirkle-concept high-performance liquid chromatographic column. Williams MG, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):169-77

Accelerated amyloid deposition in mice treated with the aspartic protease inhibitor, pepstatin. Yamada T, et al. **J Immunol** 1996 Jul 15;157(2):901-7

Daleformis, a new phytoalexin from the roots fo Dalea filiciformis: an inhibitor of endothelin converting enzyme. Patil AD, et al. **J Nat Prod** 1997 Mar;60(3):306-8

Peptide inhibitors of HIV-1 and HIV-2 proteases: a comparative study. Pichová I, et al. **Leukemia** 1997 Apr; 11 Suppl 3:120-2

Phosphoramidon, an endothelin converting enzyme inhibitor attenuates local gastric ischemia-reperfusion injury in rats. Hassan M, et al. **Life Sci** 1997;61(10):PL 141-7

Structure and inhibition of plasmepsin II, a hemoglobin-degrading enzyme from Plasmodium falciparum. Silva AM, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10034-9

BIOSYNTHESIS

Vascular endothelial growth factor increases

endothelin-converting enzyme expression in vascular endothelial cells. Matsuura A, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):713-6

Comparative analysis of expression of the proprotein convertases furin, PACE4, PC1 and PC2 in human lung tumours. Mbikay M, et al. **Br J Cancer** 1997;75(10):1509-14

Kainic acid increases the expression of the prohormone convertases furin and PC1 in the mouse hippocampus. Meyer A, et al. **Brain Res** 1996 Sep 2;732(1-2):121-32

Cloning and expression of an isovaleryl pepstatin-insensitive carboxyl proteinase gene from Xanthomonas sp. T-22. Oda K, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):564-72

Biosynthesis and maturation of the malaria aspartic hemoglobinases plasmepsins I and II. Francis SE, et al. **J Biol Chem** 1997 Jun 6;272(23):14961-8

Evidence of alternative promoters directing isoform-specific expression of human endothelin-converting enzyme-1 mRNA in cultured endothelial cells. Orzechowski HD, et al. **J Mol Med** 1997 Jul;75(7):512-21

Expression and localization of endothelin converting enzyme in rat vas deferens. Wan DC, et al. **Life Sci** 1997; 60(18):1605-12

Solid state production of a Mucor bacilliformis acid protease. Fernández Lahore HM, et al. **Rev Argent Microbiol** 1997 Jan-Mar;29(1):1-6

Up-regulation of endothelin-converting enzyme during the development of transplant renal arteriosclerosis in human renal allografts. Tanabe S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1517-9

BLOOD

Pregnancy-specific protein B and progesterone concentrations in relation to nutritional regimen, placental mass and pregnancy outcome in growing adolescent ewes carrying singleton fetuses. Wallace JM, et al. **J Reprod Fertil** 1997 Jan;109(1):53-8

Lysosomal aspartic and cysteine proteinases serum levels in patients with pancreatic cancer or pancreatitis. Leto G, et al. **Pancreas** 1997 Jan;14(1):22-7

CHEMICAL SYNTHESIS

Comparative properties of feline immunodeficiency virus (FIV) and human immunodeficiency virus type 1 (HIV-1) proteinases prepared by total chemical synthesis. Schnölzer M, et al. **Virology** 1996 Oct 1;224(1):268-75

CHEMISTRY

The specificity of the neuroendocrine convertase PC3 is determined by residues NH2- and COOH-terminal to the cleavage site. Ledgerwood EC, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1167-76

Mutagenesis and modeling of endothelin converting enzyme. Hoang VM, et al. **Biochem Soc Trans** 1996 Aug;24(3):471S

Three-dimensional structures of HIV-1 and SIV protease product complexes. Rose RB, et al. **Biochemistry** 1996 Oct 1;35(39):12933-44

Aspartic proteinases: Fourier transform infrared spectroscopic studies of a model of the active side. Iliadis G, et al. **Biophys J** 1996 Nov;71(5):2840-7

Molecular cloning of Aplysia neuronal cDNAs that encode carboxypeptidases related to mammalian prohormone processing enzymes. Fan X, et al. **DNA Cell Biol** 1996 Nov; 15(11):937-45

Bacterial aspartic proteinases. Hill J, et al. **FEBS Lett** 1997 Jun 16;409(3):357-60

Substrate specificities of pepstatin-insensitive carboxyl proteinases from gram-negative bacteria. Ito M, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):845-50

Structure of D-3-hydroxyacyl-CoA dehydratase/D-3-hydroxyacyl-CoA dehydrogenase bifunctional protein. Jiang LL, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):364-9

Characterization of the S1 subsite specificity of aspergillopepsin I by site-directed mutagenesis. Shintani T, et al. **J Biochem (Tokyo)** 1996 Nov;120(5):974-81

Mechanism of action of aspartic proteinases: application of transition-state analogue theory. Oldziej S, et al. **J Comput Aided Mol Des** 1996 Dec;10(6):583-8

The three-dimensional structure at 2.4 A resolution of glycosylated proteinase A from the lysosome-like vacuole of Saccharomyces cerevisiae. Aguilar CF, et al. **J Mol Biol** 1997 Apr 11;267(4):899-915

The 80's loop (residues 78 to 85) is important for the differential activity of retroviral proteases. Stebbins J, et al. **J Mol Biol** 1997 Apr 4;267(3):467-75

Computer-aided molecular modeling of cathepsin E, a possible endothelin-converting enzyme. Mahmoudian M. **J Mol Graph** 1996 Aug;14(4):213-6, 225-6

Immunohistochemical localization of the pro-peptide processing enzymes PC1/PC3 and PC2 in the human anal canal. Hörsch D, et al. **Peptides** 1997;18(5):755-60

Structure and inhibition of plasmepsin II, a hemoglobin-degrading enzyme from Plasmodium falciparum. Silva AM, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10034-9

Comparative modelling and analysis of amino acid substitutions suggests that the family of pregnancy-associated glycoproteins includes both active and inactive aspartic proteinases. Guruprasad K, et al. **Protein Eng** 1996 Oct;9(10):849-56

Protein engineering loops in aspartic proteinases: site-directed mutagenesis, biochemical characterization and X-ray analysis of chymosin with a replaced loop from rhizopuspepsin. Nugent PG, et al. **Protein Eng** 1996 Oct; 9(10):885-93

GENETICS

Acasp, a gene encoding a cathepsin D-like aspartic protease from the hookworm Ancylostoma caninum. Harrop SA, et al. **Biochem Biophys Res Commun** 1996 Oct 3; 227(1):294-302

Proinsulin processing in the rat insulinoma cell line INS after overexpression of the endoproteases PC2 or PC3 by recombinant adenovirus. Irminger JC, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):11-5

An Aspergillus awamori acetylesterase: purification of the enzyme, and cloning and sequencing of the gene. Koseki T, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):485-90

The integrity of the RRGDL sequence of the proprotein convertase PC1 is critical for its zymogen and C-terminal processing and for its cellular trafficking. Lusson J, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):737-44

Mutagenesis and modeling of endothelin converting enzyme. Hoang VM, et al. **Biochem Soc Trans** 1996 Aug;24(3):471S

Crystal structures of the inactive D30N mutant of feline immunodeficiency virus protease complexed with a substrate and an inhibitor. Laco GS, et al. **Biochemistry** 1997 Sep 2;36(35):10696-708

Escape mutants of HIV-1 proteinase: enzymic efficiency and susceptibility to inhibition. Wilson SI, et al. **Biochim Biophys Acta** 1997 Apr 25;1339(1):113-25

Expression of the proprotein convertases PC1 and PC2 mRNAs in thyrotropin releasing hormone neurons of the rat paraventricular nucleus of hypothalamus. Sánchez E, et al. **Brain Res** 1997 Jun 27;761(1):77-86

Expression and characterisation of plasmepsin I from Plasmodium falciparum. Moon RP, et al. **Eur J Biochem** 1997 Mar 1;244(2):552-60

Expression, characterisation and mutagenesis of the aspartic proteinase from equine infectious anaemia virus [published erratum appears in Eur J Biochem 1997 May 15;246(1):258] Powell DJ, et al. **Eur J Biochem** 1996 Oct 15;241(2):664-74

Expression of PC3, carboxypeptidase E and enkephalin in human monocyte-derived macrophages as a tool for genetic studies. LaMendola J, et al. **FEBS Lett** 1997 Mar 3;404(1):19-22

Molecular cloning of a novel mouse aspartic protease-like protein that is expressed abundantly in the kidney. Mori K, et al. **FEBS Lett** 1997 Jan 20;401(2-3):218-22

Temperature-related expression of the vacuolar aspartic proteinase (APR1) gene and beta-N-acetylglucosaminidase (HEX1) gene during Candida albicans morphogenesis. Niimi M, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):247-54

Disruption of each of the secreted aspartyl proteinase genes SAP1, SAP2, and SAP3 of Candida albicans attenuates virulence. Hube B, et al. **Infect Immun** 1997 Sep; 65(9):3529-38

A triple deletion of the secreted aspartyl proteinase genes SAP4, SAP5, and SAP6 of Candida albicans causes attenuated virulence. Sanglard D, et al. **Infect Immun** 1997 Sep;65(9):3539-46

Analysis of the mosquito lysosomal aspartic protease gene: an insect housekeeping gene with fat body-enhanced expression. Dittmer NT, et al. **Insect Biochem Mol Biol** 1997 Apr;27(4):323-35

Site-directed mutagenesis of conserved Trp39 in Rhizomucor pusillus pepsin: possible role of Trp39 in maintaining Tyr75 in the correct orientation for maximizing catalytic activity. Park YN, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):118-21

Cell type-specific protein-DNA interactions at the cAMP response elements of the prohormone convertase 1 promoter. Evidence for additional transactivators distinct from CREB/ATF family members. Jansen E, et al. **J Biol Chem** 1997 Jan 24;272(4):2500-8

Engineering of porcine pepsin. Alteration of S1 substrate specificity of pepsin to those of fungal aspartic proteinases by site-directed mutagenesis. Shintani T, et al. **J Biol Chem** 1997 Jul 25;272(30):18855-61

Virulence of an aspergillopepsin-deficient mutant of Aspergillus fumigatus and evidence for another aspartic proteinase linked to the fungal cell wall. Reichard U, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):189-96

Evidence of alternative promoters directing isoform-specific expression of human endothelin-converting enzyme-1 mRNA in cultured endothelial cells. Orzechowski HD, et al. **J Mol Med** 1997 Jul;75(7):512-21

Expression of endothelin-converting enzyme in both neuroblastoma and glial cell lines and its localization in rat hippocampus. Barnes K, et al. **J Neurochem** 1997 Feb; 68(2):570-7

A secreted aspartic proteinase from Glomerella cingulata: purification of the enzyme and molecular cloning of the cDNA. Clark SJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1395-403

The signal peptidase II (Isp) gene of Bacillus subtilis. Prágai Z, et al. **Microbiology** 1997 Apr;143 (Pt 4):1327-33

The extracellular acid protease gene of Yarrowia lipolytica: sequence and pH-regulated transcription. Young TW, et al. **Microbiology** 1996 Oct;142 (Pt 10):2913-21

Molecular cloning and characterisation of a putative aspartate proteinase associated with a gut membrane protein complex from adult Haemonchus contortus. Longbottom D, et al. **Mol Biochem Parasitol** 1997 Sep;88(1-2):63-72

Obesity and impaired prohormone processing associated with mutations in the human prohormone convertase 1 gene [see comments] Jackson RS, et al. **Nat Genet** 1997 Jul; 16(3):303-6. Comment in: Nat Genet 1997 Jul;16(3):218-20.

Aspartic proteinase genes in the Brassicaceae Arabidopsis thaliana and Brassica napus. D'Hondt K, et al. **Plant Mol Biol** 1997 Jan;33(1):187-92

Molecular cloning of a tomato leaf cDNA encoding an aspartic protease, a systemic wound response protein. Schaller A, et al. **Plant Mol Biol** 1996 Aug;31(5):1073-7

Sequence analysis of a 37.6 kbp cosmid clone from the right arm of Saccharomyces cerevisiae chromosome XII, carrying YAP3, HOG1, SNR6, tRNA-Arg3 and 23 new open reading frames, among which several homologies to proteins involved in cell division control and to mammalian growth factors and other animal proteins are found. Verhasselt P, et al. **Yeast** 1997 Mar 15;13(3):241-50

[Gene analysis of acid proteases] Azuma T. **Nippon Rinsho** 1996 Apr;54(4):1149-54 (12 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Protective role of antimannan and anti-aspartyl proteinase antibodies in an experimental model of Candida albicans vaginitis in rats. De Bernardis F, et al. **Infect Immun** 1997 Aug;65(8):3399-405

Application of the multiple antigenic peptides (MAP) strategy to the production of prohormone convertases antibodies: synthesis, characterization and use of 8-branched immunogenic peptides. Basak A, et al. **J Pept Sci** 1995 Nov-Dec;1(6):385-95

ISOLATION & PURIFICATION

Aspartic proteinases from parasites. Kay J, et al. **Adv Exp Med Biol** 1996;389:247-50 (13 ref.)

Identification of a fungal protein of Syncephalastrum racemosum as aspartic proteinase. Ho HC, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):97-103

An Aspergillus awamori acetylesterase: purification of the enzyme, and cloning and sequencing of the gene. Koseki T, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):485-90

Purification and characterization of an extracellular aspartate protease from Phycomyces blakesleeanus. De Vicente JI, et al. **Fungal Genet Biol** 1996 Jun;20(2):115-24

Isolation and identification of porcine embryonic basic protein as a fragment of pregnancy-associated glycoprotein-2. Doré JJ Jr, et al. **Int J Biochem Cell Biol** 1996 Nov;28(11):1249-55

Purification and properties of rat D-3-hydroxyacyl-CoA dehydratase: D-3-hydroxyacyl-CoA dehydratase/D-3-hydroxyacyl-CoA dehydrogenase bifunctional protein. Jiang LL, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):633-41

Analysis of secreted aspartic proteinases from Candida albicans: purification and characterization of individual Sap1, Sap2 and Sap3 isoenzymes. Smolenski G, et al. **Microbiology** 1997 Feb;143 (Pt 2):349-56

METABOLISM

Identification and expression of prohormone-converting enzymes in the rat stomach. Macro JA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G87-93

Elevated expression of endothelin-1 and endothelin-converting enzyme-1 in idiopathic pulmonary fibrosis: possible involvement of proinflammatory cytokines. Saleh D, et al. **Am J Respir Cell Mol Biol** 1997 Feb;16(2):187-93

Potency comparison of peptidomimetic inhibitors against HIV-1 and HIV-2 proteinases: design of equipotent lead compounds. Weber J, et al. **Arch Biochem Biophys** 1997 May 1;341(1):62-9

Immunocytochemical localization of prohormone convertases PC1/PC3 and PC2 in rat pancreatic islets. Tanaka S, et al. **Arch Histol Cytol** 1996 Aug;59(3):261-71

Lysosomal cysteine and aspartic proteinases and ubiquitin in rat and human urinary bladder epithelium. Tokunaga H, et al. **Arch Histol Cytol** 1996 Aug;59(3):249-60

Mechanism and ion-dependence of in vitro autoactivation of yeast proteinase A: possible implications for compartmentalized activation in vivo. Van Den Hazel H, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):339-44

Procorticotrophin releasing hormone is endoproteolytically processed by the prohormone convertase PC2 but not by PC1 within stably transfected CHO-K1 cells. Perone MJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):497S

Action on bovine alpha s1-casein of cardosins A and B, aspartic proteinases from the flowers of the cardoon Cynara cardunculus L. Ramalho-Santos M, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):83-9

Trophoblast-specific processing and phosphorylation of pregnancy-associated glycoprotein-1 in day 15 to 25 sheep placenta. Xie S, et al. **Biol Reprod** 1996 Jan;54(1):122-9

Endothelin-converting enzyme expression in the rat vascular injury model and human coronary atherosclerosis [published erratum appears in Circulation 1997 Apr 1;95(7):1975] Minamino T, et al. **Circulation** 1997 Jan 7; 95(1):221-30

Yeast aspartic protease 3 is sorted to secretory granules and activated to process proopiomelanocortin in PC12 cells. Cool DR, et al. **Endocrinology** 1996 Dec;137(12):5441-6

ASPARTIC PROTEINASES

Identification of the thyrotropin-releasing hormone precursor, its processing products, and its coexpression with convertase 1 in primary cultures of hypothalamic neurons: anatomic distribution of PC1 and PC2. Nillni EA, et al. **Endocrinology** 1996 Dec;137(12):5651-61

The glycosylation of the aspartic proteinases from barley (Hordeum vulgare L.) and cardoon (Cynara cardunculus L.). Costa J, et al. **Eur J Biochem** 1997 Feb 1;243(3):695-700

An aspartic endopeptidase is involved in the breakdown of propeptides of storage proteins in protein-storage vacuoles of plants. Hiraiwa N, et al. **Eur J Biochem** 1997 May 15; 246(1):133-41

Processing of proendothelin-1 at the C-terminus of big endothelin-1 is essential for proteolysis by endothelin-converting enzyme-1 in vivo. Kido T, et al. **Eur J Biochem** 1997 Mar 1;244(2):520-6

Expression and characterisation of plasmepsin I from Plasmodium falciparum. Moon RP, et al. **Eur J Biochem** 1997 Mar 1;244(2):552-60

Disruption of three acid proteases in Aspergillus niger--effects on protease spectrum, intracellular proteolysis, and degradation of target proteins. van den Hombergh JP, et al. **Eur J Biochem** 1997 Jul 15; 247(2):605-13

Purification and characterization of an extracellular aspartate protease from Phycomyces blakesleeanus. De Vicente JI, et al. **Fungal Genet Biol** 1996 Jun;20(2):115-24

Evidence for degradation of gastrointestinal mucin by Candida albicans secretory aspartyl proteinase. Colina AR, et al. **Infect Immun** 1996 Nov;64(11):4514-9

Physiological role of D-3-hydroxyacyl-CoA dehydratase/D-3-hydroxyacyl-CoA dehydrogenase bifunctional protein. Jiang LL, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):506-13

Purification and properties of rat D-3-hydroxyacyl-CoA dehydratase: D-3-hydroxyacyl-CoA dehydratase/D-3-hydroxyacyl-CoA dehydrogenase bifunctional protein. Jiang LL, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):633-41

Site-directed mutagenesis of conserved Trp39 in Rhizomucor pusillus pepsin: possible role of Trp39 in maintaining Tyr75 in the correct orientation for maximizing catalytic activity. Park YN, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):118-21

Two activation states of the prohormone convertase PC1 in the secretory pathway. Jutras I, et al. **J Biol Chem** 1997 Jun 13;272(24):15184-8

Prohormone convertase 1 is necessary for the formation of cholecystokinin 8 in Rin5F and STC-1 cells. Yoon J, et al. **J Biol Chem** 1997 Apr 4;272(14):9450-6

Metallopeptidase inhibitors induce an up-regulation of endothelin-converting enzyme levels and its redistribution from the plasma membrane to an intracellular compartment. Barnes K, et al. **J Cell Sci** 1996 May;109 (Pt 5):919-28

Mechanism of action of aspartic proteinases: application of transition-state analogue theory. Ołdziej S, et al. **J Comput Aided Mol Des** 1996 Dec;10(6):583-8

Potent HIV protease inhibitors containing a novel (hydroxyethyl)amide isostere. Beaulieu PL, et al. **J Med Chem** 1997 Jul 4;40(14):2164-76

The 80's loop (residues 78 to 85) is important for the differential activity of retroviral proteases. Stebbins J, et al. **J Mol Biol** 1997 Apr 4;267(3):467-75

Histidine-rich human salivary peptides are inhibitors of proprotein convertases furin and PC7 but act as substrates for PC1. Basak A, et al. **J Pept Res** 1997 Jun;49(6):596-603

Molecular analysis of the feline immunodeficiency virus protease: generation of a novel form of the protease by autoproteolysis and construction of cleavage-resistant proteases. Laco GS, et al. **J Virol** 1997 Jul;71(7):5505-11

Specific cleavage sites of Nef proteins from human immunodeficiency virus types 1 and 2 for the viral proteases. Schorr J, et al. **J Virol** 1996 Dec;70(12):9051-4

Substrates and inhibitors of human T-cell leukemia virus type 1 (HTLV-1) proteinase. Hrušková-Heidingsfeldová O, et al. **Leukemia** 1997 Apr;11 Suppl 3:45-6

Kinetic analysis of plasmepsins I and II aspartic proteases of the Plasmodium falciparum digestive vacuole. Luker KE, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):71-8

Peptide biosynthetic processing: distinguishing prohormone convertases PC1 and PC2. Paquet L, et al. **Mol Cell Endocrinol** 1996 Jul 1;120(2):161-8

Rat big endothelin-1-induced bronchoconstriction and vasoconstriction in the isolated perfused rat lung: role of endothelin converting enzyme and neutral endopeptidase 24.11. Held HD, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):619-24

Endoproteolysis at tetrabasic amino acid sites in procalcitonin gene-related peptide by pituitary cell lines. Rosenblatt MI, et al. **Peptides** 1997;18(4):567-76

Vacuolar and extracellular maturation of Saccharomyces cerevisiae proteinase A. Wolff AM, et al. **Yeast** 1996 Jul; 12(9):823-32

[Mechanism of aspartic proteinase action. I. Theory and method] Popov EM, et al. **Bioorg Khim** 1996 May; 22(5):323-38 (44 ref.) (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effect of histone-H2A (H-H2A), platelet activating factor (PAF) and pregnancy specific protein B (PSPB) on secretion of prostaglandins E and F2 alpha (PGE; PGF2 alpha) by bovine endometrium and H-H2A on basal secretion of luteinizing hormone (LH) by bovine pituitary cells in vitro. Weems CW, et al. **Chin J Physiol** 1996; 39(3):147-54 (53 ref.)

PHYSIOLOGY

Role of aspartic proteases in disseminated Candida albicans infection in mice. Fallon K, et al. **Infect Immun** 1997 Feb; 65(2):551-6

Characterization of a nucleotide stimulated aspartic proteinase in rat liver plasma membranes. Paule CR, et al. **J Basic Clin Physiol Pharmacol** 1996;7(2):121-36

SECRETION

Degradation of human subendothelial extracellular matrix by proteinase-secreting Candida albicans. Morschhäuser J, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):349-55

ULTRASTRUCTURE

Crystal structure of the aspartic proteinase from Rhizomucor miehei at 2.15 A resolution. Yang J, et al. **J Mol Biol** 1997 May 2;268(2):449-59

ASPARTOKINASE see **ASPARTATE KINASE**

ASPARTYL PROTEINASES see **ASPARTIC PROTEINASES**

ASPARTYL T RNA SYNTHETASE

CHEMISTRY

Aspartyl-tRNA synthetase from rat: in vitro functional analysis of its assembly into the multisynthetase complex. Agou F, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):259-67

Unusual enzyme characteristics of aspartyl-tRNA synthetase from hyperthermophilic archaeon Pyrococcus sp. KOD1. Fujiwara S, et al. **FEBS Lett** 1996 Sep 23;394(1):66-70

GENETICS

Additional copies of the mitochondrial Ef-Tu and aspartyl-tRNA synthetase genes can compensate for a mutation affecting the maturation of the mitochondrial tRNAAsp. Rinaldi T, et al. **Curr Genet** 1997 Jun; 31(6):494-6

Genomic organization of the rat aspartyl-tRNA synthetase gene family: a single active gene and several retropseudogenes. Lazard M, et al. **Gene** 1996 Nov 21; 180(1-2):197-205

Characterization of a thermosensitive Escherichia coli aspartyl-tRNA synthetase mutant. Martin F, et al. **J Bacteriol** 1997 Jun;179(11):3691-6

ISOLATION & PURIFICATION

Existence of two distinct aspartyl-tRNA synthetases in Thermus thermophilus. Structural and biochemical properties of the two enzymes. Becker HD, et al. **Biochemistry** 1997 Jul 22;36(29):8785-97

METABOLISM

Conformational flexibility of tRNA: structural changes in yeast tRNA(Asp) upon binding to aspartyl-tRNA synthetase. Rees B, et al. **Biochimie** 1996;78(7):624-31 (31 ref.)

Unusual enzyme characteristics of aspartyl-tRNA synthetase from hyperthermophilic archaeon Pyrococcus sp. KOD1. Fujiwara S, et al. **FEBS Lett** 1996 Sep 23;394(1):66-70

Expression of rat aspartyl-tRNA synthetase in Saccharomyces cerevisiae. Role of the NH2-terminal polypeptide extension on enzyme activity and stability. Agou F, et al. **J Biol Chem** 1996 Nov 15;271(46):29295-303

Electrostatic potential in aminoacylation by aspartyl-tRNAs synthetase. Tsunoda M, et al. **Nucleic Acids Symp Ser** 1995; (34):65-6

ASPARTYLGLUCOSAMINIDASE see **ASPARTYLGLUCOSYLAMINASE**

ASPARTYLGLUCOSYLAMINASE

CHEMISTRY

Crystallization and preliminary crystallographic study of the pentamerizing domain from cartilage oligomeric matrix protein: a five-stranded alpha-helical bundle. Efimov VP, et al. **Proteins** 1996 Feb;24(2):259-62

Large-scale purification and preliminary x-ray diffraction studies of human aspartylglucosaminidase. Tikkanen R, et al. **Proteins** 1996 Feb;24(2):253-8

DEFICIENCY

Two novel mutations in a Canadian family with aspartylglucosaminuria and early outcome post bone marrow transplantation. Laitinen A, et al. **Clin Genet** 1997 Mar;51(3):174-8

A mouse model for the human lysosomal disease aspartylglycosaminuria. Kaartinen V, et al. **Nat Med** 1996 Dec;2(12):1375-8

GENETICS

Two novel mutations in a Canadian family with aspartylglucosaminuria and early outcome post bone marrow transplantation. Laitinen A, et al. **Clin Genet** 1997 Mar;51(3):174-8

Purification, biochemistry and molecular cloning of an insect glycosylasparaginase from Spodoptera frugiperda. Liu Y, et al. **Glycobiology** 1996 Jul;6(5):527-36

Ser72Pro active-site disease mutation in human lysosomal aspartylglucosaminidase: abnormal intracellular processing and evidence for extracellular activation. Peltola M, et al. **Hum Mol Genet** 1996 Jun;5(6):737-43

Expression and regulation of the human and mouse aspartylglucosaminidase gene. Uusitalo A, et al. **J Biol Chem** 1997 Apr 4;272(14):9524-30

Bone-marrow transplantation in aspartylglucosaminuria [letter] Autti T, et al. **Lancet** 1997 May 10;349(9062):1366-7

METABOLISM

Recombinant human glycosylasparaginase catalyzes hydrolysis of L-asparagine. Noronkoski T, et al. **FEBS Lett** 1997 Jul 21;412(1):149-52

Lysosomal glycosylasparaginase: a member of a family of amidases that employ a processed N-terminal threonine, serine or cysteine as a combined base-nucleophile catalyst. Aronson NN Jr. **Glycobiology** 1996 Oct;6(7):669-75 (60 ref.)

Influence of L-fucose attached alpha 1-->6 to the asparagine-linked N-acetylglucosamine on the hydrolysis of the N-glycosidic linkage by human glycosylasparaginase. Noronkoski T, et al. **Glycobiology** 1997 Mar;7(2):217-20

ASPARTYLGLUCOSYLAMINE DEASPARTYLASE see **ASPARTYLGLUCOSYLAMINASE**

ASPARTYLGLYCOSAMINE AMIDOHYDROLASE see **ASPARTYLGLUCOSYLAMINASE**

ASPARTYLPHENYLALANINE METHYL ESTER see **ASPARTAME**

ASPERGILLOSIS

Clinically unsuspected bilateral Aspergillus endophthalmitis. Myles WM, et al. **Can J Ophthalmol** 1997 Apr;32(3):182-4

Chronic invasive aspergillosis in apparently immunocompetent hosts. Karim M, et al. **Clin Infect Dis** 1997 Apr;24(4):723-33

Cutaneous aspergillosis. Smith WF, et al. **Cutis** 1997 Mar; 59(3):138-40

Cutaneous aspergillosis. Isaac M. **Dermatol Clin** 1996 Jan; 14(1):137-40 (21 ref.)

Fatal Aspergillus pericarditis in acquired immunodeficiency syndrome [letter] Dalhoff K, et al. **Intensive Care Med** 1996 Aug;22(8):831-3

HIV-associated respiratory disease [letter; comment] Antinori S, et al. **Lancet** 1996 Sep 28;348(9031):892-3. Comment on: Lancet 1996 Aug 3;348(9023):307-12.

Invasive Aspergillus sinusitis in patients with human immunodeficiency virus infection. Report of 2 cases and review. Mylonakis E, et al. **Medicine (Baltimore)** 1997 Jul; 76(4):249-55 (18 ref.)

Aspergilloma in the paracavernous region--two case reports. Goel A, et al. **Neurol Med Chir (Tokyo)** 1996 Oct; 36(10):733-6

Aspergillus endophthalmitis in orthotopic liver transplant [letter; comment] Pararajasegaram P, et al. **Ophthalmology** 1997 Jul;104(7):1061-2. Comment on: Ophthalmology 1996 May;103(5):757-67.

Invasive aspergillosis in human immunodeficiency virus-infected children. Shetty D, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):216-21

[Aspergillus lung pathology in transplant patients] Kaiser L, et al. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S93-101 (75 ref.) (Eng. Abstr.) **(Fre)**

[Two cases of Aspergillus endocarditis after cardiac surgery in childhood] Kawasaki S, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):673-6 (Eng. Abstr.) **(Jpn)**

[Otomastoiditis caused by Aspergillus in AIDS] Martínez-Berriotxoa A, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):200-2 (Eng. Abstr.) **(Spa)**

BLOOD

Evaluation of the diagnostic value of the measurement of (1-->3)-beta-D-glucan in patients with pulmonary aspergillosis. Yuasa K, et al. **Respiration** 1996;63(2):78-83

CHEMICALLY INDUCED

[Invasive disseminated aspergillosis in combined immunosuppressive therapy in systemic lupus erythematosus] Teuber G, et al. **Med Klin** 1996 Dec 15; 91(12):798-801 **(Ger)**

COMPLICATIONS

Aspergilloma formation in a pneumatocele associated with Pneumocystis carinii pneumonia [letter] Schouwink JH, et al. **AIDS** 1997 Jan;11(1):135-7

Osteomyelitis of the base of the skull secondary to

Aspergillus. Kountakis SE, et al. **Am J Otolaryngol** 1997 Jan–Feb;18(1):19–22 (19 ref.)

Autologous bone marrow transplantation is feasible in patients with a prior history of invasive pulmonary aspergillosis. Michailov G, et al. **Bone Marrow Transplant** 1996 Apr;17(4):569–72

Aspergillar fungemia in an infant with hepatoblastoma. Marec–Bérard P, et al. **Clin Infect Dis** 1996 Dec; 23(6):1326–7

Survival of a liver graft recipient treated for an aspergillar liver abscess. Mazza D, et al. **Clin Infect Dis** 1996 Oct; 23(4):831–2

Flourishing otomycosis. Pak MW, et al. **Ear Nose Throat J** 1997 Jan;76(1):10

Aspergillus infection of the epiglottis in a HIV positive patient. Sriskandabalan P, et al. **Genitourin Med** 1996 Dec; 72(6):431–2

Small bowel infarction by Aspergillus. Catalano L, et al. **Haematologica** 1997 Mar–Apr;82(2):182–3

Changes in the natural history of invasive pulmonary aspergillosis in neutropenic leukemic patients. Ruchlemer R, et al. **Isr J Med Sci** 1996 Nov;32(11):1089–92

Comparative analysis of prognostic indicators of aspergillosis in haematological malignancies and HIV infection. Tumbarello M, et al. **J Infect** 1997 Jan;34(1):55–60

Aspergillus nidulans infection in a patient with chronic granulomatous disease. Kim M, et al. **J Korean Med Sci** 1997 Jun;12(3):244–8

Rare fatal simultaneous mould infection of the lung caused by Aspergillus flavus and the basidiomycete Coprinus sp. in a leukemic patient. Nenoff P, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):65–9

Antibiotic–induced or Aspergillus infection related acute interstitial nephritis? [letter] Renoult E, et al. **Nephron** 1996; 72(3):493–4

Tracheoesophageal fistula and sinusitis from invasive aspergillosis. Stack BC Jr, et al. **Otolaryngol Head Neck Surg** 1997 Jan;116(1):116–9

Pneumatocele complicated by fungal lung abscess in Job's syndrome. Successful lobectomy with the aid of videothoracoscopy. Santambrogio L, et al. **Scand Cardiovasc J** 1997;31(3):177–9

Aspergillus endocarditis, myocarditis and pericarditis complicating necrotizing fasciitis. Case report and subject review. Sergi C, et al. **Virchows Arch** 1996 Oct; 429(2–3):177–80 (44 ref.)

[Disseminated aspergillosis and mucormycosis. A case report] Mölle M, et al. **Mycoses** 1996;39 Suppl 1:59–64 (Eng. Abstr.) **(Ger)**

[Water intoxication in pulmonary tuberculosis complicated by aspergillosis] Pató E, et al. **Orv Hetil** 1996 Apr 7; 137(14):751–3 (Eng. Abstr.) **(Hun)**

[Kartagener's syndrome with aspergilloma] Ashitani J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar;35(3):371–4 (Eng. Abstr.) **(Jpn)**

[Chronic necrotizing pulmonary aspergillosis in a patient with chronic pulmonary emphysema] Hitsuda Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1469–74 (Eng. Abstr.) **(Jpn)**

[Coping with opportunistic mycoses in patients with collagen diseases] Kono S. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1889–94 (5 ref.) **(Jpn)**

[Aspergillosis and AIDS (editorial)] Moreno S, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):517–8 **(Spa)**

DIAGNOSIS

Cranial and intracranial aspergillosis of sino–nasal origin. Report of nine cases. Naim–Ur–Rahman, et al. **Acta Neurochir (Wien)** 1996;138(8):944–50

Invasive aspergillosis of the orbit. Eskey CJ, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1588

Pulmonary aspergilloma and AIDS. A comparison of HIV–infected and HIV–negative individuals. Addrizzo–Harris DJ, et al. **Chest** 1997 Mar;111(3):612–8

Cardiac aspergillosis presenting as myocardial infarction. Cishek MB, et al. **Clin Cardiol** 1996 Oct;19(10):824–7 (11 ref.)

Primary cutaneous aspergillosis in neonates: case report and review. Papouli M, et al. **Clin Infect Dis** 1996 Jun; 22(6):1102–4 (14 ref.)

Diagnosis of Aspergillus keratitis in vivo with confocal microscopy. Winchester K, et al. **Cornea** 1997 Jan; 16(1):27–31

Detection of Aspergillus DNA in bronchoalveolar lavage fluid of AIDS patients by the polymerase chain reaction [letter] Bart–Delabesse E, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):24–5

Study of fungi associated with bronchopulmonary disorders. Gupta BK, et al. **Indian J Med Sci** 1996 Sep;50(9):333–6

Central nervous system aspergillosis. Sahayaraj V, et al. **Indian Pediatr** 1996 Feb;33(2):131–2

Aspergillus infections: problems in diagnosis and treatment [letter; comment] Verweij PE, et al. **Infect Agents Dis** 1996 Oct;5(4):245–6. Comment on: Infect Agents Dis 1996 Jan;5(1):47–54.

Serial monitoring of Aspergillus antigen in the early diagnosis of invasive aspergillosis. Preliminary investigations with two examples. Verweij PE, et al. **Infection** 1997 Mar–Apr; 25(2):86–9

Aspergillosis in the ICU: the glass half–empty? [editorial; comment] Crawford SW. **Intensive Care Med** 1996 Dec; 22(12):1291–3 (16 ref.). Comment on: Intensive Care Med 1996 Dec;22(12):1315–22.

Laboratory implementation of a rapid three–stain technique for detection of microorganisms from lower respiratory specimens. Maymind M, et al. **J Clin Lab Anal** 1996; 10(2):104–9

Immunohistologic identification of Aspergillus spp. and other hyaline fungi by using polyclonal fluorescent antibodies. Kaufman L, et al. **J Clin Microbiol** 1997 Sep;35(9):2206–9

Improved management of invasive pulmonary aspergillosis in neutropenic patients using early thoracic computed tomographic scan and surgery. Caillot D, et al. **J Clin Oncol** 1997 Jan;15(1):139–47

Immunoperoxidase staining for identification of Aspergillus species in routinely processed tissue sections. Verweij PE, et al. **J Clin Pathol** 1996 Oct;49(10):798–801

Aspergillus osteomyelitis after heart–lung transplantation. Taillandier J, et al. **J Heart Lung Transplant** 1997 Apr; 16(4):436–8

Hospital–acquired candida and aspergillus pneumonia—diagnostic approaches and clinical findings. von Eiff M, et al. **J Hosp Infect** 1996 Jan;32(1):17–28

One–stage surgical treatment of pulmonary aspergilloma with cavernostomy and muscle transposition flap: a case report. Klinjongol C, et al. **J Med Assoc Thai** 1995 Dec; 78(12):692–6

Mycotic common carotid artery aneurysm in an immunosuppressed pediatric patient: case report. Willemsen P, et al. **J Vasc Surg** 1997 Apr;25(4):784–5

Aspergillus endocarditis in a leukemia patient diagnosed by a PCR assay. Kanda Y, et al. **Kansenshogaku Zasshi** 1997 Mar;71(3):269–72

In situ hybridization for Aspergillus and Penicillium in allergic fungal sinusitis: a rapid means of speciating fungal pathogens in tissues. Perez–Jaffe LA, et al. **Laryngoscope** 1997 Feb;107(2):233–40

Specific antibody detection in human aspergillosis: a GEMO* multicentre evaluation of a rapid immunoelectrophoresis method (Paragon). Group d'Etude des Mycoses Opportunistes. Persat F, et al. **Mycoses** 1996 Nov–Dec; 39(11–12):427–32

Images in clinical medicine. Palate destruction by Aspergillus. Schwartz S, et al. **N Engl J Med** 1997 Jul 24;337(4):241

Cutaneous aspergillosis in a neonate. Gupta M, et al. **Pediatr Infect Dis J** 1996 May;15(5):464–5

Aspergillus flavus cultured from a saline–filled implant [letter] Rosenblatt WB, et al. **Plast Reconstr Surg** 1997 Apr; 99(5):1470–2

A painful knee in an immunocompromised patient. Pattison RM, et al. **Postgrad Med J** 1997 Jan;73(855):49–50

Aspergillus fumigatus Asp fI DNA is prevalent in sputum from patients with coal workers' pneumoconiosis. Nomoto Y, et al. **Respiration** 1997;64(4):291–5

Evaluation of the diagnostic value of the measurement of (1-->3)-beta-D-glucan in patients with pulmonary aspergillosis. Yuasa K, et al. **Respiration** 1996;63(2):78–83

Nosocomial cerebral aspergillosis: a report of 3 cases. Darras–Joly C, et al. **Scand J Infect Dis** 1996;28(3):317–9 (28 ref.)

Aspergillosis in systemic lupus erythematosus. Katz A, et al. **Semin Arthritis Rheum** 1996 Dec;26(3):635–40

Aspergillosis: a disease with many faces. Miller WT. **Semin Roentgenol** 1996 Jan;31(1):52–66 (56 ref.)

Pulmonary aspergillosis masquerading as progressive post–transplant lymphoma. Kirn D, et al. **Transpl Int** 1996; 9(5):517–9

Procalcitonin: a new marker for differential diagnosis of acute rejection and bacterial infection in heart transplantation. Staehler M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):584–5

[Nosocomial invasive aspergillosis. Diagnosis, prevention and means of control integrated in a hospital setting] Derouin F. **Bull Acad Natl Med** 1996 Apr;180(4):859–68; discussion 868–70 (20 ref.) (Eng. Abstr.) **(Fre)**

[Invasive mold infections in the university clinics of Leipzig in the period from 1992–1994] Nenoff P, et al. **Mycoses** 1996;39 Suppl 1:107–12 (Eng. Abstr.) **(Ger)**

[Invasive aspergillosis—experimental and clinical study] Andriole VT. **Kansenshogaku Zasshi** 1997 Jan;71(1):1–7 **(Jpn)**

[Significance of Aspergillus fumigatus rDNA detected by polymerase chain reaction in diagnosis of pulmonary aspergillosis] Ohgoe K, et al. **Kansenshogaku Zasshi** 1997 Jun;71(6):507–12 (Eng. Abstr.) **(Jpn)**

[Genetic diagnosis of aspergillosis] Murayama SY, et al. **Kekkaku** 1997 Feb;72(2):83–90 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Sero–diagnosis for pulmonary aspergillosis—its utility in early diagnosis] Niki Y. **Rinsho Byori** 1996 Jun;44(6):518–23 (Eng. Abstr.) **(Jpn)**

[Aspergillosis in the anterior ethmoid: case report] Krzeski A, et al. **Otolaryngol Pol** 1995;49(5):457–61 (Eng. Abstr.) **(Pol)**

[Fever and inhabited pulmonary cavity in an AIDS patient] Aguirre A, et al. **Enferm Infecc Microbiol Clin** 1996 Dec; 14(10):621–2 **(Spa)**

DRUG THERAPY

Administering itraconazole via nasogastric tube [letter] Ong DL, et al. **Am J Health Syst Pharm** 1996 Aug 15; 53(16):1962

Amphotericin B–associated hypertension. Le Y, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):765–7

Itraconazole resistance in Aspergillus fumigatus. Denning DW, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1364–8

Efficacy of UK–109496, a new azole antifungal agent, in an experimental model of invasive aspergillosis. George D, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):86–91

Efficacy of ER–30346, a novel oral triazole antifungal agent, in experimental models of aspergillosis, candidiasis, and cryptococcosis. Hata K, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2243–7

Comparison of voriconazole (UK–109,496) and itraconazole in prevention and treatment of Aspergillus fumigatus endocarditis in guinea pigs. Martin MV, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):13–6

Efficacy of SCH–56592 in a temporarily neutropenic murine model of invasive aspergillosis with an itraconazole–susceptible and an itraconazole–resistant isolate of Aspergillus fumigatus. Oakley KL, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1504–7

Analysis of compassionate use itraconazole therapy for invasive aspergillosis by the NIAID Mycoses Study Group criteria. Stevens DA, et al. **Arch Intern Med** 1997 Sep 8; 157(16):1857–62

Fungal infections in patients undergoing bone marrow transplantation: an approach to a rational management protocol. Castagnola E, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:97–106 (41 ref.)

Resolution of invasive central nervous system aspergillosis in a transplant recipient. Khoury H, et al. **Bone Marrow Transplant** 1997 Jul;20(2):179–80

Successful treatment of cerebral aspergillosis with a novel triazole (voriconazole) in a patient with acute leukaemia. Schwartz S, et al. **Br J Haematol** 1997 Jun;97(3):663–5

Relapsing Aspergillus bronchitis in a double lung transplant patient, successfully treated with a new oral antimycotic agent [letter] Harari S, et al. **Chest** 1997 Mar;111(3):835–6

Therapeutic outcome in invasive aspergillosis. Denning DW. **Clin Infect Dis** 1996 Sep;23(3):608–15 (110 ref.)

Survival of a liver graft recipient treated for an aspergillar liver abscess. Mazza D, et al. **Clin Infect Dis** 1996 Oct; 23(4):831–2

Aspergillus meningitis in an immunocompetent adult successfully treated with itraconazole. Mikolich DJ, et al. **Clin Infect Dis** 1996 Dec;23(6):1318–9

Treatment of cerebral Aspergillosis with itraconazole: do high doses improve the prognosis? [see comments] Sánchez C, et al. **Clin Infect Dis** 1995 Dec;21(6):1485–7 (12 ref.). Comment in: Clin Infect Dis 1996 Nov;23(5):1196–7.

High–dose itraconazole for the treatment of cerebral aspergillosis [letter; comment] Verweij PE, et al. **Clin Infect Dis** 1996 Nov;23(5):1196–7. Comment on: Clin Infect Dis 1995 Dec;21(6):1485–7.

Amphotericin B colloidal dispersion vs. amphotericin B as therapy for invasive aspergillosis. White MH, et al. **Clin Infect Dis** 1997 Apr;24(4):635–42

Characterization of amphotericin B aerosols for inhalation treatment of pulmonary aspergillosis. Roth C, et al. **Infection** 1996 Sep–Oct;24(5):354–60

Empyema following the percutaneous instillation of antifungal agents in patients with aspergillosis. Nakanishi Y, et al. **Intern Med** 1996 Aug;35(8):657–9

Changes in the natural history of invasive pulmonary aspergillosis in neutropenic leukemic patients. Ruchlemer R, et al. **Isr J Med Sci** 1996 Nov;32(11):1089–92

Liposomal amphotericin B (AmBisome) reduces dissemination of infection as compared with amphotericin B deoxycholate (Fungizone) in a rate model of pulmonary aspergillosis. Leenders AC, et al. **J Antimicrob Chemother** 1996 Aug;38(2):215–25

The in–vivo activity of an antifungal antibiotic, benanomicin A, in comparison with amphotericin B and fluconazole. Ohtsuka K, et al. **J Antimicrob Chemother** 1997 Jan; 39(1):71–7

Successful treatment of primary cutaneous Aspergillus flavus infection of the hand with oral itraconazole. Epstein MD, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1106–8

Evaluation of himachalol in murine invasive aspergillosis. Chowdhry L, et al. **Mycoses** 1996 Nov–Dec; 39(11–12):449–52

Tracheobronchial aspergillosis in a patient with AIDS treated with aerosolized amphotericin B combined with itraconazole. Dal Conte I, et al. **Mycoses** 1996 Sep–Oct; 39(9–10):371–4

FDA clears new treatment for invasive aspergillosis. **Oncol Nurs Forum** 1997 Jan–Feb;24(1):107

Itraconazole in the treatment of orbital aspergillosis. Massry GG, et al. **Ophthalmology** 1996 Sep;103(9):1467–70

Aspergillus osteomyelitis in chronic granulomatous disease: treatment with recombinant gamma–interferon and itraconazole. Pasic S, et al. **Pediatr Infect Dis J** 1996 Sep; 15(9):833–4

Salvage lung resection for massive hemoptysis after resolution of pulmonary aspergillosis in a patient with acute leukemia. Venuta F, et al. **Scand Cardiovasc J** 1997; 31(1):51–3

Nosocomial cerebral aspergillosis: a report of 3 cases. Darras–Joly C, et al. **Scand J Infect Dis** 1996;28(3):317–9 (28 ref.)

[A multiple center clinical trial on fluconazole for deep–seated fungal infections] Liang D, et al.

Chung Hua Nei Ko Tsa Chih 1995 Dec;34(12):823–6 (Eng. Abstr.) **(Chi)**

[Palliative percutaneous treatment under ultrasonographic control of inoperable pulmonary aspergilloma: Galenic analysis (letter)] Meges B, et al. **Rev Mal Respir** 1996 Dec; 13(6):614–5 **(Fre)**

[Drug treatment of invasive aspergillosis of the paranasal sinuses] Streppel M, et al. **Laryngorhinootologie** 1997 Jan; 76(1):19–22 (Eng. Abstr.) **(Ger)**

[Treatment of chronic pulmonary aspergillosis (fungus ball type, mural thickness type)] Ogawa K. **Kekkaku** 1997 Feb; 72(2):119–24 (Eng. Abstr.) **(Jpn)**

[Conversion of chronic necrotizing pulmonary aspergillosis to invasive pulmonary aspergillosis, and successful treatment with fluconazole] Hirano K, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 Apr; 35(4):408–13 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Chronic semi-invasive aspergillosis with broncho-pleural fistula treated with itraconazole and surgically] Nalepa P, et al. **Pneumonol Alergol Pol** 1996;64(7–8):472–7 (Eng. Abstr.) **(Pol)**

ENZYMOLOGY

Chitinase levels in guinea pig blood are increased after systemic infection with Aspergillus fumigatus. Overdijk B, et al. **Glycobiology** 1996 Sep;6(6):627–34

EPIDEMIOLOGY

Postmortem analysis of invasive aspergillosis in a tertiary care hospital. Vogeser M, et al.
Eur J Clin Microbiol Infect Dis 1997 Jan;16(1):1–6

Hospital epidemiologic surveillance for invasive aspergillosis: patient demographics and the utility of antigen detection. Patterson JE, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):104–8

Epidemiology of Aspergillus infections in a large cohort of patients undergoing bone marrow transplantation. Wald A, et al. **J Infect Dis** 1997 Jun;175(6):1459–66

[Invasive aspergillosis: nosocomial origin of epidemics. Review of the literature] Nolard N.
Bull Acad Natl Med 1996 Apr;180(4):849–56; discussion 856–8 (35 ref.) (Eng. Abstr.) **(Fre)**

[Epidemiology and diagnosis of invasive fungal mold infections in immunosuppressed patients: results of a 3 year study at Leipzig University] Horn LC, et al.
Verh Dtsch Ges Pathol 1996;80:337 **(Ger)**

ETIOLOGY

Aspergillus endocarditis in chronic granulomatous disease. Casson DH, et al. **Acta Paediatr** 1996 Jun;85(6):758–9

Disseminated aspergillosis after mobilization with intensive chemotherapy prior to autologous stem-cell transplant in chronic myeloid leukemia [letter] Ferrer F, et al.
Am J Hematol 1997 Feb;54(2):170–1

Esophageal aspergillosis after bone marrow transplant. Choi JH, et al. **Bone Marrow Transplant** 1997 Feb;19(3):293–4

Septic arthritis by Aspergillus fumigatus: a complication of corticosteroid infiltration [letter] García-Porrúa C, et al. **Br J Rheumatol** 1997 May;36(5):610–1

Localization of aspergillosis to the central nervous system among patients with acute leukemia: report of 14 cases. Gruppo Italiano Malattie Ematologiche dell'Adulto Infection Program. Pagano L, et al. **Clin Infect Dis** 1996 Sep;23(3):628–30

Black corneal ulcer. Kumar M, et al. **Cornea** 1997 Sep; 16(5):590–1

Exogenous lipoid pneumonia complicated by Mycobacterium fortuitum and Aspergillus fumigatus infections. Jouannic I, et al. **Eur Respir J** 1996 Jan;9(1):172–4

Intervertebral disc space infection caused by Aspergillus fumigatus. Lang EW, et al. **Eur Spine J** 1996;5(3):207–9

Exacerbation of invasive aspergillosis by the immunosuppressive fungal metabolite, gliotoxin. Sutton P, et al. **Immunol Cell Biol** 1996 Aug;74(4):318–22

Primary cutaneous aspergillosis: case report and review of the literature. Larkin JA, et al.
Infect Control Hosp Epidemiol 1996 Jun;17(6):365–6

Th1 and Th2 cytokines in mice with invasive aspergillosis. Cenci E, et al. **Infect Immun** 1997 Feb;65(2):564–70

Murine model of invasive pulmonary aspergillosis following an earlier stage, noninvasive Aspergillus infection. Nawada R, et al. **J Clin Microbiol** 1996 Jun;34(6):1433–9

Saprophytic fungal infections and lung transplantation--revisited. Paradowski LJ.
J Heart Lung Transplant 1997 May;16(5):524–31

Fatal primary cutaneous aspergillosis in a bone marrow transplant recipient: nosocomial acquisition in a laminar-air flow room. Bretagne S, et al. **J Hosp Infect** 1997 Jul; 36(3):235–9

Aspergillus wound infection following laparostomy. Carlson GL, et al. **J Infect** 1996 Sep;33(2):119–21

Renal invasive aspergilloma: unusual infection in AIDS. Fiteni I, et al. **J Infect** 1996 Jul;33(1):61–3

Staphylococcus aureus bacteraemia, Absidia corymbifera infection and probable pulmonary aspergillosis in a recipient of orthotopic liver transplantation for end stage liver disease secondary to hepatitis C [letter] Viscoli C, et al. **J Infect** 1997 May;34(3):281–3

Post-traumatic intracranial epidural Aspergillus fumigatus abscess. Letscher V, et al. **J Med Vet Mycol** 1997 Jul-Aug; 35(4):279–82

Aspergillus fumigatus specific antibodies in multitransfused children with human immunodeficiency virus (HIV) infection in relation to serum levels of Interleukin-2, gamma Interferon and tumour necrosis factor. Bhatnagar PK, et al. **J Trop Pediatr** 1996 Apr;42(2):85–90

Influence of zinc oxide on Aspergillus species: a possible cause of local, non-invasive aspergillosis of the maxillary sinus. Willinger B, et al. **Mycoses** 1996 Sep-Oct; 39(9–10):361–6

Destruction of the nasal septum by aspergillus infection after autologous bone marrow transplantation [letter] Siberry GK, et al. **N Engl J Med** 1997 Jul 24;337(4):275–6

Aspergillus infection of a renal allograft without evidence of a site of origin. Marañés A, et al.
Nephrol Dial Transplant 1996 Aug;11(8):1639–42

Oral aspergillosis in compromised patients [letter] Sugata T, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Jun;81(6):632–3

Aspergillus fumigatus infection of an automatic internal cardiac defibrillator. Dunn CJ, et al.
Pacing Clin Electrophysiol 1996 Dec;19(12 Pt 1):2156–7

Invasive pulmonary aspergillosis with cerebromeningeal involvement after short-term intravenous corticosteroid therapy in a patient with asthma. Monlun E, et al.
Respir Med 1997 Aug;91(7):435–7

Invasive aspergillosis in liver transplant recipients in the 1990s. Singh N, et al. **Transplantation** 1997 Sep 15; 64(5):716–20

[Aspergillus niger osteitis of the middle ear in a patient with HIV infection (letter)] Lesueur A, et al. **Presse Med** 1997 Jul 5;26(23):1098 **(Fre)**

[A nidulans bronchial aspergillosis after treatment of low-grade lymphoma with fludarabine] Peyrade F, et al. **Rev Med Interne** 1997;18(3):235–6 (Eng. Abstr.) **(Fre)**

[Invasive pulmonary aspergillosis caused by aspiration of polluted water after nearly drowning] Mizukane R, et al. **Kansenshogaku Zasshi** 1996 Nov;70(11):1181–5 (Eng. Abstr.) **(Jpn)**

[Intralobar pulmonary sequestration associated with asymptomatic aspergillosis: a case report] Kadoyama C, et al. **Kyobu Geka** 1996 Oct;49(11):959–62 (Eng. Abstr.) **(Jpn)**

[A case of cerebral aspergillosis associated with induction chemotherapy for acute lymphoblastic leukemia] Okamoto K, et al. **No To Shinkei** 1996 Nov;48(11):1047–51 (Eng. Abstr.) **(Jpn)**

GENETICS

Genetic diversity among isolates of Aspergillus fumigatus in patients with cystic fibrosis. Rath PM, et al.
Zentralbl Bakteriol 1997 Feb;285(3):450–5

HISTORY

Aspergillus fumigatus antigens: the Pepys' years. Longbottom JL. **Clin Exp Allergy** 1997 May;27 Suppl 1:6–8

IMMUNOLOGY

Detection of galactomannan and complement activation in the pregnant mouse during experimental systemic aspergillosis. Jensen HE, et al. **APMIS** 1996 Dec; 104(12):926–32

Th1 and Th2 cytokines in mice with invasive aspergillosis. Cenci E, et al. **Infect Immun** 1997 Feb;65(2):564–70

Serial monitoring of Aspergillus antigen in the early diagnosis of invasive aspergillosis. Preliminary investigations with two examples. Verweij PE, et al. **Infection** 1997 Mar-Apr; 25(2):86–9

Disseminated aspergillosis in a dog: an immunohistochemical study. Pérez J, et al. **J Comp Pathol** 1996 Aug;115(2):191–6

Impaired host defense, hematopoiesis, granulomatous inflammation and type 1-type 2 cytokine balance in mice lacking CC chemokine receptor 1. Gao JL, et al.
J Exp Med 1997 Jun 2;185(11):1959–68

Prospective sandwich enzyme-linked immunosorbent assay for serum galactomannan: early predictive value and clinical use in invasive aspergillosis. Rohrlich P, et al.
Pediatr Infect Dis J 1996 Mar;15(3):232–7

[Pneumocystis carinii and aspergillus pneumonia in immunosuppression in rapidly progressing glomerulonephritis of the anti-glomerular basement membrane type] Späth M, et al. **Med Klin** 1996 Sep 15; 91(9):603–6 **(Ger)**

MICROBIOLOGY

Detection of hyphae in pus with Fungiflora Y [letter] Kimura M, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1327–8

Muscle abscess due to Aspergillus fumigatus in a patient with AIDS. Mylonakis E, et al. **Clin Infect Dis** 1996 Dec; 23(6):1323–4

Aspergillus in cytology specimens: a review of 45 specimens from 36 patients. Fischler DF, et al. **Diagn Cytopathol** 1997 Jan;16(1):26–30

Primary lymph node invasive aspergillosis. Mazzoni A, et al. **Infection** 1996 Jan-Feb;24(1):37–42

Polymerase chain reaction amplification of Asp f I and alkaline protease genes from fungus balls: clinical application in pulmonary aspergillosis. Urata T, et al.
Intern Med 1997 Jan;36(1):19–27

Multicentric epidemiological study of Aspergillus fumigatus isolates by multilocus enzyme electrophoresis. Rodriguez E, et al. **J Clin Microbiol** 1996 Oct;34(10):2559–68

PCR detection of DNA specific for Aspergillus species in serum of patients with invasive aspergillosis. Yamakami Y, et al. **J Clin Microbiol** 1996 Oct;34(10):2464–8

Increasing fungal isolation from clinical specimens: experience in a university hospital over a decade. Weinberger M, et al. **J Hosp Infect** 1997 Mar;35(3):185–95

Invasive aspergillosis in mice immunosuppressed with cyclosporin A, tacrolimus (FK506), or sirolimus (rapamycin). High KP, et al. **J Infect Dis** 1997 Jan; 175(1):222–5

Virulence of an aspergillopepsin-deficient mutant of Aspergillus fumigatus and evidence for another aspartic proteinase linked to the fungal cell wall. Reichard U, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):189–96

Association between incidence of Aspergillus antigenemia and exposure to construction works at a hospital site. Ansorg R, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):146–52

[Aspergillus prostatitis and prolonged corticotherapy. Apropos of a case report] Cherasse A, et al.
Acta Urol Belg 1997 Mar;65(1):43–8 (Eng. Abstr.) **(Fre)**

[Effect of zinc oxide on Aspergillus species: a possible cause of local noninvasive aspergillosis of the maxillary sinus] Willinger B, et al. **Mycoses** 1996;39 Suppl 1:20–5 (Eng. Abstr.) **(Ger)**

[Detection of Aspergillus species DNA in serum samples of the patients with non-invasive pulmonary aspergillosis] Hashimoto A, et al. **Kansenshogaku Zasshi** 1997 Mar; 71(3):255–9 (Eng. Abstr.) **(Jpn)**

[Detection of DNA specific for Aspergillus species in serum samples from two patients with invasive pulmonary aspergillosis] Yamakami Y, et al. **Kansenshogaku Zasshi** 1996 Dec;70(12):1284–9 (Eng. Abstr.) **(Jpn)**

[Aspergillosis of maxillary sinus: a case report] Landa Aranzábal M, et al. **Acta Otorrinolaringol Esp** 1996 Jul-Aug;47(4):321–4 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Case report: pathomorphology of an experimental disseminated Aspergillus fumigatus infection in rabbits. Vissiennon T, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jan;110(1):12–4

Aspergillus in cytology specimens: a review of 45 specimens from 36 patients. Fischler DF, et al. **Diagn Cytopathol** 1997 Jan;16(1):26–30

Tricuspid valve endocarditis. De Leval L, et al. **Heart** 1997 Jun;77(6):501

The histological spectrum of chronic necrotizing forms of pulmonary aspergillosis. Yousem SA. **Hum Pathol** 1997 Jun;28(6):650–6

Caprine mastitis due to aspergillosis and zygomycosis: a pathological and immunohistochemical study. Jensen HE, et al. **J Comp Pathol** 1996 Feb;114(2):183–91

Disseminated aspergillosis in a dog: an immunohistochemical study. Pérez J, et al. **J Comp Pathol** 1996 Aug;115(2):191–6

Aspergilloma within intralobar pulmonary sequestration. Park JY, et al. **Korean J Intern Med** 1996 Jun;11(2):183–5

The spectrum of orbital aspergillosis: a clinicopathological review. Levin LA, et al. **Surv Ophthalmol** 1996 Sep-Oct; 41(2):142–54 (119 ref.)

[Pathology of bronchopulmonary aspergillosis] Hebisawa A, et al. **Kekkaku** 1997 Feb;72(2):109–18 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Rabbit as an animal model of paranasal sinus mycoses. Chakrabarti A, et al. **J Med Vet Mycol** 1997 Jul-Aug; 35(4):295–7

Allergic fungal sinusitis: clinicopathological characteristics. Chhabra A, et al. **Mycoses** 1996 Nov-Dec;39(11–12):437–41

Chronic systemic aspergillosis [letter] Rüchel R, et al.
Mycoses 1997 Jan-Feb;40(1–2):1

[Peracute, fatal Aspergillus sepsis as a complication of systemic lupus erythematosus and rheumatic diseases] Nenoff P, et al. **Verh Dtsch Ges Pathol** 1996;80:332 **(Ger)**

PREVENTION & CONTROL

Aerosolized amphotericin B in prophylaxis of pulmonary aspergillosis. Tsourounis C, et al. **Ann Pharmacother** 1996 Oct;30(10):1175–6

Efficacy of prophylactic aerosol amphotericin B lipid complex in a rat model of pulmonary aspergillosis. Cicogna CE, et al. **Antimicrob Agents Chemother** 1997 Feb; 41(2):259–61

Retroviral-mediated gene transfer of gp91phox into bone marrow cells rescues defect in host defense against Aspergillus fumigatus in murine X-linked chronic granulomatous disease. Björgvinsdóttir H, et al. **Blood** 1997 Jan 1;89(1):41–8

Successful program to prevent aspergillus infections in children undergoing marrow transplantation: use of nasal amphotericin. Trigg ME, et al.
Bone Marrow Transplant 1997 Jan;19(1):43–7

Tolerance and efficacy of Amphotericin B inhalations for prevention of invasive pulmonary aspergillosis in haematological patients. Erjavec Z, et al.
Eur J Clin Microbiol Infect Dis 1997 May;16(5):364–8

Control of construction-associated nosocomial aspergillosis

in an antiquated hematology unit. Loo VG, et al. **Infect Control Hosp Epidemiol** 1996 Jun;17(6):360–4

Significant reduction in the number of fungal infections after lung–, heart–lung, and heart transplantation using aerosolized amphotericin B prophylaxis. Reichenspurner H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):627–8

[Contribution of air mycological control for the prevention of invasive nosocomial aspergillosis] Paugam A, et al. **Pathol Biol (Paris)** 1997 May;45(5):410–3 (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

High–resolution computed tomography and pathologic findings in pulmonary aspergillosis: a pictorial essay. Logan PM, et al. **Can Assoc Radiol J** 1996 Dec;47(6):444–52

Pulmonary aspergillosis: a spectrum of disease. Broderick LS, et al. **Crit Rev Diagn Imaging** 1996 Dec;37(6):491–531 (26 ref.)

Bilateral pulmonary aspergilloma: case report. Aderaye G, et al. **East Afr Med J** 1996 Jul;73(7):487–8

Aspergillus mastoiditis in a patient with acquired immunodeficiency syndrome. Yates PD, et al. **J Laryngol Otol** 1997 Jun;111(6):560–1

[Radiological case of the month. Chronic septic granulomatous disease revealed by pulmonary aspergillosis in a girl] Ben Meriem C, et al. **Arch Pediatr** 1997 Jul; 4(7):683–4 **(Fre)**

[The typical radiological findings and course of invasive pulmonary aspergillosis in the immunosuppressed patient] Leutner C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):24–31 (Eng. Abstr.) **(Ger)**

[Chronic calcifying aspergilloma (clinical conference)] Aschoff AJ, et al. **Rontgenpraxis** 1996 Jan;49(1):12–3 **(Ger)**

[Saprophytic and invasive pulmonary aspergillosis] Nagai H. **Kekkaku** 1997 Feb;72(2):99–107 (Eng. Abstr.) **(Jpn)**

[Pulmonary aspergilloma with ring enhancement on chest CT scans] Muro K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):227–30 (Eng. Abstr.) **(Jpn)**

[Primary pulmonary aspergilloma presenting as an isolated nodular shadow] Suyama H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):179–83 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

111In–chloride uptake in pulmonary aspergillosis. Ohta H, et al. **Ann Nucl Med** 1997 May;11(2):151–3

SURGERY

Early surgical management of invasive gingival aspergillosis in a neutropenic patient with leukemia: a case report. Myoken Y, et al. **Int J Oral Maxillofac Surg** 1997 Feb; 26(1):51–3

One–stage surgical treatment of pulmonary aspergilloma with cavernostomy and muscle transposition flap: a case report. Klinjongol C, et al. **J Med Assoc Thai** 1995 Dec; 78(12):692–6

Intracerebral Aspergillus abscess: case report and review of the literature. Artico M, et al. **Neurosurg Rev** 1997; 20(2):135–8 (34 ref.)

Aspergillomas of the sphenoid sinus: a series of 10 cases treated by endoscopic sinus surgery. Klossek JM, et al. **Rhinology** 1996 Sep;34(3):179–83

[Paranasal sinus aspergilloma. A propos of 45 cases] Serrano E, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(2):86–91 (Eng. Abstr.) **(Fre)**

[Surgical treatment for pulmonary aspergillosis] Yamamoto H. **Kekkaku** 1997 Feb;72(2):125–31 (Eng. Abstr.) **(Jpn)**

[Cavernostomy, thoracoplasty and muscle plombage with the pedicled latissimus dorsi and serratus anterior flap for pulmonary aspergilloma] Horio H, et al. **Kyobu Geka** 1997 May;50(5):377–80 (Eng. Abstr.) **(Jpn)**

[Pulmonary aspergillosis: clinical findings and surgical treatment] Kitada M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):755–8 (Eng. Abstr.) **(Jpn)**

[Skull base aspergillosis granuloma originating from the sphenoid sinus: a case report] Yamamoto H, et al. **No Shinkei Geka** 1997 May;25(5):433–6 (Eng. Abstr.) **(Jpn)**

THERAPY

Invasive aspergillosis of the paranasal sinuses and orbit: can you save the eye? Adler SC, et al. **Am J Otolaryngol** 1997 Jul–Aug;18(4):230–4

Chronic necrotizing pulmonary aspergillosis: approach to management. Saraceno JL, et al. **Chest** 1997 Aug; 112(2):541–8 (24 ref.)

Isolated cerebral aspergilloma—long–term survival of a renal transplant recipient. Mrowka C, et al. **Clin Nephrol** 1997 Jun;47(6):394–6

Combined treatment with amphotericin–B and granulocyte transfusion from G–CSF–stimulated donors in an aplastic patient with invasive aspergillosis undergoing bone marrow transplantation. Catalano L, et al. **Haematologica** 1997 Jan–Feb;82(1):71–2

Aspergillosis in the ICU: the glass half–empty? [editorial; comment] Crawford SW. **Intensive Care Med** 1996 Dec; 22(12):1291–3 (16 ref.). Comment on: Intensive Care Med 1996 Dec;22(12):1315–22.

Outcome of ICU treatment in invasive aspergillosis [see comments] Janssen JJ, et al. **Intensive Care Med** 1996 Dec; 22(12):1315–22. Comment in: Intensive Care Med 1996 Dec;22(12):1291–3.

Treatment outcomes in a 10–year study of endogenous fungal endophthalmitis. Essman TF, et al. **Ophthalmic Surg Lasers** 1997 Mar;28(3):185–94

Successful combination of amphotericin therapy and surgical resection for fungal necrotizing pneumoniae in a child receiving chemotherapy for leukemia. Suc A, et al. **Pediatr Pulmonol** 1997 May;23(5):386–8

ULTRASONOGRAPHY

Cardiac aspergillosis: importance of transesophageal echocardiography [letter] Blanc–Jouvan M, et al. **Intensive Care Med** 1996 Dec;22(12):1462

VETERINARY

Development of a method for the identification, using the polymerase chain reaction, of Aspergillus fumigatus isolated from ostriches. Katz ME, et al. **Aust Vet J** 1996 Jul;74(1):50–4

Suspected drug eruption in seven dogs during administration of flucytosine. Malik R, et al. **Aust Vet J** 1996 Oct; 74(4):285–8

Pathology of acute aspergillosis in turkeys. Kunkle RA, et al. **Avian Dis** 1996 Oct–Dec;40(4):875–86

Pulmonary and mammary aspergillosis in a dairy cow. Vestweber JG, et al. **Can Vet J** 1994 Dec;35(12):780

Caprine mastitis due to aspergillosis and zygomycosis: a pathological and immunohistochemical study. Jensen HE, et al. **J Comp Pathol** 1996 Feb;114(2):183–91

Route of infections in bovine aspergillosis. Sarfati J, et al. **J Med Vet Mycol** 1996 Nov–Dec;34(6):379–83

Multifocal Aspergillus terreus discospondylitis in two German shepherd dogs. Berry WL, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):222–8

Development of murine monoclonal antibodies for the immunohistochemical diagnosis of systemic bovine aspergillosis. Jensen HE, et al. **J Vet Diagn Invest** 1996 Jan;8(1):68–75

Treatment of renal aspergillosis in a dog using nephrostomy tubes. Starkey RJ, et al. **J Vet Intern Med** 1996 Sep–Oct; 10(5):336–8

Natural occurrence of gliotoxin in turkeys infected with Aspergillus fumigatus, Fresenius. Richard JL, et al. **Mycopathologia** 1996;134(3):167–70

ASPERGILLOSIS, ALLERGIC BRONCHOPULMONARY

Recurrence of allergic bronchopulmonary aspergillosis in the posttransplant lungs of a cystic fibrosis patient. Fitzsimons EJ, et al. **Chest** 1997 Jul;112(1):281–2

Allergic bronchopulmonary aspergillosis. Elliott MW, et al. **Clin Exp Allergy** 1997 May;27 Suppl 1:55–9 (53 ref.)

BLOOD

Allergic bronchopulmonary aspergillosis: serologic update for 1995. Krasnick J, et al. **J Clin Lab Immunol** 1995; 46(3):137–42

Evaluation of the diagnostic value of the measurement of (1—>3)–beta–D–glucan in patients with pulmonary aspergillosis. Yuasa K, et al. **Respiration** 1996;63(2):78–83

COMPLICATIONS

Allergic bronchopulmonary aspergillosis: an unusual complication of bronchial asthma. Hussain SF, et al. **JPMA J Pak Med Assoc** 1995 Dec;45(12):329–31

ABPA in CF: a devastating combination [editorial; comment] Slavin RG. **Pediatr Pulmonol** 1996 Jan;21(1):1–2. Comment on: Pediatr Pulmonol 1996 Jan;21(1):6–10.

[Allergic bronchopulmonary aspergillosis (ABPA) in patients with cystic fibrosis (CF): clinical significance, diagnosis and therapy] Paul KD, et al. **Mycoses** 1996;39 Suppl 1:55–8 (Eng. Abstr.) **(Ger)**

[A case of allergic bronchopulmonary aspergillosis following active pulmonary tuberculosis] Yanase K, et al. **Arerugi** 1996 Nov;45(11):1181–4 **(Jpn)**

[Case of allergic bronchopulmonary aspergillosis with bronchiectasis —long–term follow–up study] Tsuboi N. **Jpn J Antibiot** 1997 Jan;50(1):65–8; discussion 68–70,75–6 **(Jpn)**

DIAGNOSIS

Allergic fungal sinusitis: experience in an ambulatory allergy practice. Schwartz HJ. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):500–2

Allergic bronchopulmonary aspergillosis with aspergilloma mimicking fibrocavitary pulmonary tuberculosis. Agarwal AK, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):5–8

Automated specific IgE assay with recombinant allergens: evaluation of the recombinant Aspergillus fumigatus allergen I in the Pharmacia Cap System. Crameri R, et al. **Clin Exp Allergy** 1996 Dec;26(12):1411–9

Cough, chest pain and haemoptysis in a young nurse. Mobeireek AF. **Eur Respir J** 1996 Jun;9(6):1326–8

Skin test reactivity to recombinant Aspergillus fumigatus allergen I/a in patients with cystic fibrosis. Nikolaizik WH, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):403–8

Allergic bronchopulmonary aspergillosis with low serum IgE levels in a child with cystic fibrosis. Máiz L, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):431–2

Allergic bronchopulmonary aspergillosis: serologic update for 1995. Krasnick J, et al. **J Clin Lab Immunol** 1995; 46(3):137–42

A review of allergic bronchopulmonary aspergillosis. Zhaoming W, et al. **J Investig Allergol Clin Immunol** 1996 May–Jun;6(3):144–51 (38 ref.)

Purification and characterization of a 93 kDa Aspergillus fumigatus antigen with diagnostic potential. Haynes KA, et al. **J Med Vet Mycol** 1996 Nov–Dec;34(6):421–6

Allergic bronchopulmonary aspergillosis: an unusual complication of bronchial asthma. Hussain SF, et al. **JPMA J Pak Med Assoc** 1995 Dec;45(12):329–31

Aspergillus organisms in patients with cystic fibrosis [letter; comment] Taccetti G, et al. **Pediatr Pulmonol** 1997 Apr; 23(4):317–8. Comment on: Pediatr Pulmonol 1996 Jan;21(1):6–10.

Evaluation of the diagnostic value of the measurement of (1—>3)–beta–D–glucan in patients with pulmonary aspergillosis. Yuasa K, et al. **Respiration** 1996;63(2):78–83

[Allergic bronchopulmonary aspergillosis] Menz G, et al. **Pneumologie** 1996 Jun;50(6):419–27 (121 ref.) **(Ger)**

[Diagnosis of ABPA during a life–threatening asthma attack] Meyer A, et al. **Pneumologie** 1996 Jun;50(6):428–9 (Eng. Abstr.) **(Ger)**

[Case of allergic bronchopulmonary aspergillosis without complication of asthma attack] Umezawa Y. **Jpn J Antibiot** 1997 Jan;50(1):55–57; discussion 57,75–6 **(Jpn)**

[Allergic bronchopulmonary aspergillosis (ABPA)] Kudo K, et al. **Kekkaku** 1997 Feb;72(2):91–8 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Activity of voriconazole (UK–109,496) against clinical isolates of Aspergillus species and its effectiveness in an experimental model of invasive pulmonary aspergillosis. Murphy M, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):696–8

Successful treatment of fungus ball in a patient with allergic bronchopulmonary aspergillosis: continuous percutaneous instillation of antifungal agents into the cavity. Tsushima K, et al. **Intern Med** 1996 Sep;35(9):736–41

Liposomal amphotericin B as early empiric antimycotic therapy of pneumonia in granulocytopenic patients. Böhme A, et al. **Mycoses** 1996 Nov–Dec;39(11–12):419–26

[Allergic bronchopulmonary aspergillosis successfully treated with itraconazole] Matsuzaki Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar;35(3):352–6 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Allergic bronchopulmonary aspergillosis in lung allograft recipients. Egan JJ, et al. **Eur Respir J** 1996 Jan;9(1):169–71

Allergic bronchopulmonary aspergillosis and common variable hypogammaglobulinemia in an adult male patient: case report. Schwartz HJ, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):708–10

A review of allergic bronchopulmonary aspergillosis. Zhaoming W, et al. **J Investig Allergol Clin Immunol** 1996 May–Jun;6(3):144–51 (38 ref.)

IMMUNOLOGY

Anti–Candida albicans IgE and IgG subclasses in sera of patients with allergic bronchopulmonary aspergillosis (ABPA). Roig E, et al. **Allergy** 1997 Apr;52(4):394–403

Immunohistochemical detection of GM–CSF, IL–4 and IL–5 in a murine model of allergic bronchopulmonary aspergillosis. Chu HW, et al. **Clin Exp Allergy** 1996 Apr; 26(4):461–8

Dexamethasone and cyclosporin A modulation of cytokine expression and specific antibody synthesis in an allergic bronchopulmonary aspergillosis murine model. Wang JM, et al. **Eur J Clin Invest** 1996 Nov;26(11):951–9

Purification of a major allergen, Asp f 2 binding to IgE in allergic bronchopulmonary aspergillosis, from culture filtrate of Aspergillus fumigatus. Banerjee B, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):821–7

Interleukin–10 is a natural suppressor of cytokine production and inflammation in a murine model of allergic bronchopulmonary aspergillosis. Grünig G, et al. **J Exp Med** 1997 Mar 17;185(6):1089–99

Molecular cloning and expression of a recombinant Aspergillus fumigatus protein Asp f II with significant immunoglobulin E reactivity in allergic bronchopulmonary aspergillosis. Banerjee B, et al. **J Lab Clin Med** 1996 Mar; 127(3):253–62

Identification of 45 kD antigen in immune complexes of patients of allergic bronchopulmonary aspergillosis. Madan T, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):111–6

MICROBIOLOGY

Successful treatment of fungus ball in a patient with allergic bronchopulmonary aspergillosis: continuous percutaneous instillation of antifungal agents into the cavity. Tsushima K, et al. **Intern Med** 1996 Sep;35(9):736–41

Variation in virulence of Aspergillus fumigatus strains in a

murine model of invasive pulmonary aspergillosis. Mondon P, et al. **J Med Microbiol** 1996 Sep;45(3):186–91

PATHOLOGY

[Surgical case of allergic bronchopulmonary aspergillosis] Tamura A. **Jpn J Antibiot** 1997 Jan;50(1):62–64; discussion 75–6 **(Jpn)**

PREVENTION & CONTROL

Liposomal amphotericin B as early empiric antimycotic therapy of pneumonia in granulocytopenic patients. Böhme A, et al. **Mycoses** 1996 Nov–Dec;39(11–12):419–26

RADIOGRAPHY

High-attenuation mucous plugging in allergic bronchopulmonary aspergillosis. Logan PM, et al. **Can Assoc Radiol J** 1996 Oct;47(5):374–7

Pulmonary aspergillosis: a spectrum of disease. Broderick LS, et al. **Crit Rev Diagn Imaging** 1996 Dec;37(6):491–531 (26 ref.)

Allergic bronchopulmonary aspergillosis: the spectrum of computed tomography appearances. Panchal N, et al. **Respir Med** 1997 Apr;91(4):213–9

[Asthmatic patient, with thoracic pain and hemoptysis] Carroll NR, et al. **Radiol Med (Torino)** 1996 Jul–Aug; 92(1–2):162–3 **(Ita)**

SURGERY

Cough, chest pain and haemoptysis in a young nurse. Mobeireek AF. **Eur Respir J** 1996 Jun;9(6):1326–8

[Surgical management of pulmonary aspergilloma] Csekeö A, et al. **Orv Hetil** 1997 Sep 7;138(36):2219–21 (Eng. Abstr.) **(Hun)**

VETERINARY

Chronic bronchopulmonary aspergillosis in a horse with Cushing's syndrome. Carrasco L, et al. **Mycoses** 1996 Nov–Dec;39(11–12):443–7

ASPERGILLUS

Fungal infections in patients undergoing bone marrow transplantation: an approach to a rational management protocol. Castagnola E, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:97–106 (41 ref.)

Successful program to prevent aspergillus infections in children undergoing marrow transplantation: use of nasal amphotericin. Trigg ME, et al. **Bone Marrow Transplant** 1997 Jan;19(1):43–7

Small bowel infarction by Aspergillus. Catalano L, et al. **Haematologica** 1997 Mar–Apr;82(2):182–3

Desensitization to itraconazole [letter; comment] Douglas R, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):269. Comment on: J Allergy Clin Immunol 1994 Aug;94(2 Pt 1):270–1.

Air sampling for aspergillus spp. during building activity in a paediatric hospital ward [letter] Kennedy HF, et al. **J Hosp Infect** 1995 Dec;31(4):322–5

[Contribution of air mycological control for the prevention of invasive nosocomial aspergillosis] Paugam A, et al. **Pathol Biol (Paris)** 1997 May;45(5):410–3 (Eng. Abstr.) **(Fre)**

[Clinical effects of beni-koji in mild essential hypertension—a multi-center double-blind comparison with placebo] Kushiro T, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec; 38(12):625–33 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Ochratoxin A: an antiinsectan metabolite from the sclerotia of Aspergillus carbonarius NRRL 369. Wicklow DT, et al. **Can J Microbiol** 1996 Nov;42(11):1100–3

Prevalence of phthioic acid in Aspergillus species. Birch M, et al. **J Med Vet Mycol** 1997 Mar–Apr;35(2):143–5

Molecular structure of terrecyclodiol: a derivative of the antifungal metabolite terrecyclic acid A from Aspergillus terreus. Almassi F, et al. **J Nat Prod** 1996 Jan;59(1):59–61

Sclerotiamide: a new member of the paraherquamide class with potent antiinsectan activity from the sclerotia of Aspergillus sclerotiorum. Whyte AC, et al. **J Nat Prod** 1996 Nov;59(11):1093–5

Immunochemical detection of ochratoxin A in black Aspergillus strains. Téren J, et al. **Mycopathologia** 1996; 134(3):171–6

Insights into specificity of cleavage and mechanism of cell entry from the crystal structure of the highly specific Aspergillus ribotoxin, restrictocin. Yang X, et al. **Structure** 1996 Jul 15;4(7):837–52

CLASSIFICATION

Characterization of Aspergillus isolates by pyrolysis mass spectrometry. Law D, et al. **Mycoses** 1996 Nov–Dec; 39(11–12):433–6

DRUG EFFECTS

Fungicidal activity of cecropin A. DeLucca AJ, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):481–3

N-acetylcysteine inhibits germination of conidia and growth of Aspergillus spp. and Fusarium spp. De Lucca AJ, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1274–6

Activity of voriconazole (UK-109,496) against clinical isolates of Aspergillus species and its effectiveness in an experimental model of invasive pulmonary aspergillosis. Murphy M, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):696–8

In vitro activity of SCH-56592 and comparison with activities of amphotericin B and itraconazole against Aspergillus spp. Oakley KL, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1124–6

Aflastatin A, a novel inhibitor of aflatoxin production by aflatoxigenic fungi. Ono M, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):111–8

Invasive aspergillosis in mice immunosuppressed with cyclosporin A, tacrolimus (FK506), or sirolimus (rapamycin). High KP, et al. **J Infect Dis** 1997 Jan; 175(1):222–5

Influence of zinc oxide on Aspergillus species: a possible cause of local, non-invasive aspergillosis of the maxillary sinus. Willinger B, et al. **Mycoses** 1996 Sep–Oct; 39(9–10):361–6

[Effect of zinc oxide on Aspergillus species: a possible cause of local noninvasive aspergillosis of the maxillary sinus] Willinger B, et al. **Mycoses** 1996;39 Suppl 1:20–5 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Sequence determination and molecular characterization of gigantin, a cytotoxic protein produced by the mould Aspergillus giganteus IFO 5818. Wirth J, et al. **Arch Biochem Biophys** 1997 Jul 15;343(2):188–93

Disulfide bonds are necessary for structure and activity in Aspergillus ficuum phytase. Ullah AH, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):311–7

Pectin methyl esterase from Aspergillus aculeatus: expression cloning in yeast and characterization of the recombinant enzyme. Christgau S, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):705–12

An Aspergillus awamori acetylesterase: purification of the enzyme, and cloning and sequencing of the gene. Koseki T, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):485–90

Identification of enzyme-substrate and enzyme-product complexes in the catalytic mechanism of glucoamylase from Aspergillus awamori. Natarajan SK, et al. **Biochemistry** 1996 Dec 3;35(48):15269–79

Stability and chemical modification of xylanase from Aspergillus sp. (2M1 strain). Angelo R, et al. **Biotechnol Appl Biochem** 1997 Feb;25 (Pt 1):19–27

Purification and characterization of the esterases involved in aflatoxin biosynthesis in Aspergillus parasiticus. Kusumoto K, et al. **Can J Microbiol** 1996 Aug;42(8):804–10

Primary structure and characterization of an exopolygalacturonase from Aspergillus tubingensis. Kester HC, et al. **Eur J Biochem** 1996 Sep 15;240(3):738–46

A rejoinder to the commentary on 'Thermostability of B-xylosidase from Aspergillus sydowii MG49' by M. Ghosh and G. Nanda, FEBS Letters 330 (1993) 275–278 by D. Ananthapadmanavan (Institute of Microbial Technology, Chandigarh, India). Nandi P. **FEBS Lett** 1996 Sep 23;394(1):107

Thermostable xylanases produced at 37 degrees C and 45 degrees C by a thermotolerant Aspergillus strain. Mendicuti Castro LP, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):97–102

Purification and characterization of xylanase from alkali-tolerant Aspergillus fischeri Fxn1. Raj KC, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):457–61

Cloning and sequencing of the cDNA encoding beta-glucosidase 1 from Aspergillus aculeatus. Kawaguchi T, et al. **Gene** 1996 Sep 16;173(2):287–8

Fast dissociation of phe-tRNA synthetase from Aspergillus nidulans immobilized on sepharose-6B column by NaCl. Singh NK, et al. **J Basic Microbiol** 1996;36(1):59–62

Isozyme polymorphism of cellulases in Aspergillus terreus. Singh S, et al. **J Basic Microbiol** 1996;36(4):289–96

Molecular cloning, primary structure, and properties of a new glycoamidase from the fungus Aspergillus tubigensis. Ftouhi-Paquin N, et al. **J Biol Chem** 1997 Sep 5; 272(36):22960–5

Heterologous expression, isolation, and characterization of versicolorin B synthase from Aspergillus parasiticus. A key enzyme in the aflatoxin B1 biosynthetic pathway. Silva JC, et al. **J Biol Chem** 1997 Jan 10;272(2):804–13

Isolation, purification, and characterization of amadoriase isoenzymes (fructosyl amine-oxygen oxidoreductase EC 1.5.3) from Aspergillus sp. Takahashi M, et al. **J Biol Chem** 1997 Feb 7;272(6):3437–43

Fungal fermentation of whey incorporated with certain supplements for the production of proteases. Ashour SA, et al. **Microbios** 1996;86(346):59–69

Crystal structure of phytase from Aspergillus ficuum at 2.5 A resolution [letter] Kostrewa D, et al. **Nat Struct Biol** 1997 Mar;4(3):185–90

Effect of replacing helical glycine residues with alanines on reversible and irreversible stability and production of Aspergillus awamori glucoamylase. Chen HM, et al. **Protein Eng** 1996 Jun;9(6):499–505

Deletion analysis of the starch-binding domain of Aspergillus glucoamylase. Chen L, et al. **Protein Eng** 1995 Oct; 8(10):1049–55

1H and 15N nuclear magnetic resonance assignment and secondary structure of the cytotoxic ribonuclease alpha-Sarcin. Campos-Olivas R, et al. **Protein Sci** 1996 May;5(5):969–72

The crystal structure of rhamnogalacturonase A from Aspergillus aculeatus: a right-handed parallel beta helix. Petersen TN, et al. **Structure** 1997 Apr 15;5(4):533–44

[Comparative characteristics of microbial proteases by the level of hydrolysis of protein substrates] Rimareva LV, et al. **Prikl Biokhim Mikrobiol** 1997 Jan–Feb;33(1):43–8 (Eng. Abstr.) **(Rus)**

GENETICS

Molecular polymorphism and phenotypic variation in Aspergillus carbonarius. Kevei F, et al. **Antonie Van Leeuwenhoek** 1996 Jul;70(1):59–66

Expression and functional analysis of a hyperglycosylated glucoamylase in a parental host, Aspergillus awamori var. kawachi. Goto M, et al. **Appl Environ Microbiol** 1997 Jul; 63(7):2940–3

Glucoamylase gene fusions alleviate limitations for protein production in Aspergillus awamori at the transcriptional and (post) translational levels. Gouka RJ, et al. **Appl Environ Microbiol** 1997 Feb;63(2):488–97

Kinetics of mRNA and protein synthesis of genes controlled by the 1,4-beta-endoxylanase A promoter in controlled fermentations of Aspergillus awamori. Gouka RJ, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3646–9

Analysis of mechanisms regulating expression of the ver-1 gene, involved in aflatoxin biosynthesis. Liang SH, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1058–65

Characterization of the function of the ver-1A and ver-1B genes, involved in aflatoxin biosynthesis in Aspergillus parasiticus. Liang SH, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4568–75

avnA, a gene encoding a cytochrome P-450 monooxygenase, is involved in the conversion of averantin to averufin in aflatoxin biosynthesis in Aspergillus parasiticus. Yu J, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1349–56

Characterization of prokaryotic recombinant Aspergillus ribotoxin alpha-sarcin. Sylvester ID, et al. **Biochim Biophys Acta** 1997 Aug 21;1358(1):53–60

Arabinoxylan degradation by fungi: characterization of the arabinoxylan-arabinofuranohydrolase encoding genes from Aspergillus niger and Aspergillus tubingensis. Gielkens MM, et al. **Curr Genet** 1997 Jan;31(1):22–9

Identification of regulatory mutants of Aspergillus aculeatus affected in rhamnogalacturonan hydrolase expression. Suykerbuyk MEG, et al. **Curr Genet** 1996 Nov;30(5):439–46

A temperature-sensitive splicing mutation in the bimG gene of Aspergillus produces an N-terminal fragment which interferes with type 1 protein phosphatase function. Hughes M, et al. **EMBO J** 1996 Sep 2;15(17):4574–83

Detection of Aspergillus DNA in bronchoalveolar lavage fluid of AIDS patients by the polymerase chain reaction [letter] Bart-Delabesse E, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):24–5

Cloning and molecular analysis of the Aspergillus terreus arg1 gene coding for an ornithine carbamoyltransferase. Ventura L, et al. **FEMS Microbiol Lett** 1997 Apr 15; 149(2):207–12

Overproduction of fungal ribotoxin alpha-sarcin in Escherichia coli: generation of an active immunotoxin. Rathore D, et al. **Gene** 1997 Apr 29;190(1):31–5

Cloning and functional analysis of a beta-tubulin gene from a benomyl resistant mutant of Aspergillus parasiticus. Wu TS, et al. **Gene** 1996 Dec 5;182(1–2):7–12

Cloning of the polyketide synthase gene atX from Aspergillus terreus and its identification as the 6-methylsalicylic acid synthase gene by heterologous expression. Fujii I, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):1–10

Deletion analysis of the starch-binding domain of Aspergillus glucoamylase. Chen L, et al. **Protein Eng** 1995 Oct; 8(10):1049–55

Expression in Pichia pastoris and purification of Aspergillus awamori glucoamylase catalytic domain. Heimo H, et al. **Protein Expr Purif** 1997 Jun;10(1):70–9

Characterization of a new ribotoxin gene (c-sar) from Aspergillus clavatus. Huang KC, et al. **Toxicon** 1997 Mar; 35(3):383–92

[Detection of Aspergillus species DNA in serum samples of the patients with non-invasive pulmonary aspergillosis] Hashimoto A, et al. **Kansenshogaku Zasshi** 1997 Mar; 71(3):255–9 (Eng. Abstr.) **(Jpn)**

GROWTH & DEVELOPMENT

Growth and aflatoxin B1 production on olives and olive paste by moulds isolated from 'Turkish-style' natural black olives in brine. Eltem R. **Int J Food Microbiol** 1996 Sep; 32(1–2):217–23

Comparison of the Petrifilm dry rehydratable film and conventional culture methods for enumeration of yeasts and molds in foods: collaborative study. Knight MT, et al. **J AOAC Int** 1997 Jul–Aug;80(4):806–23

Development of greenhouse screening for resistance to Aspergillus parasiticus infection and preharvest aflatoxin contamination in peanut. Anderson WF, et al. **Mycopathologia** 1996;135(2):115–8

Effects of extracts of fiberglass insulations on the growth of Aspergillus fumigatus and A. versicolor. Ezeonu IM, et al. **Mycopathologia** 1995 Nov;132(2):65–9

IMMUNOLOGY

Identification of the reactive subunits of Aspergillus umbrosus involved in the antigenic response in farmer's

lung. Kaukonen K, et al. **Clin Exp Allergy** 1996 Jun; 26(6):689–96

Hospital epidemiologic surveillance for invasive aspergillosis: patient demographics and the utility of antigen detection. Patterson JE, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):104–8

Serial monitoring of Aspergillus antigen in the early diagnosis of invasive aspergillosis. Preliminary investigations with two examples. Verweij PE, et al. **Infection** 1997 Mar–Apr; 25(2):86–9

IgE antibody response against Aspergillus umbrosus in farmer's lung disease. Kaukonen K, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):313–6

A model for the prediction of relative titres of avian malaria and Aspergillus spp. IgG in Jackass penguin (Spheniscus demersus) females based on maternal IgG in egg–yolk. Graczyk TK, et al. **Int J Parasitol** 1996 Jul;26(7):749–54

Immunohistologic identification of Aspergillus spp. and other hyaline fungi by using polyclonal fluorescent antibodies. Kaufman L, et al. **J Clin Microbiol** 1997 Sep;35(9):2206–9

Prospective sandwich enzyme–linked immunosorbent assay for serum galactomannan: early predictive value and clinical use in invasive aspergillosis. Rohrlich P, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):232–7

ISOLATION & PURIFICATION

Detection of hyphae in pus with Fungiflora Y [letter] Kimura M, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1327–8

Clinical review of nasal allergy due to fungus. Kim Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:105–7

Anaerobes and fungi in chronic suppurative otitis media. Ibekwe AO, et al. **Ann Otol Rhinol Laryngol** 1997 Aug; 106(8):649–52

Development of polyclonal antibodies for detection of aflatoxigenic molds involving culture filtrate and chimeric proteins expressed in Escherichia coli. Shapira R, et al. **Appl Environ Microbiol** 1997 Mar;63(3):990–5

Clinically unsuspected bilateral Aspergillus endophthalmitis. Myles WM, et al. **Can J Ophthalmol** 1997 Apr;32(3):182–4

Aspergillus in cytology specimens: a review of 45 specimens from 36 patients. Fischler DF, et al. **Diagn Cytopathol** 1997 Jan;16(1):26–30

Detection and identification of fungal pathogens in blood by using molecular probes. Einsele H, et al. **J Clin Microbiol** 1997 Jun;35(6):1353–60

Specificity of a sandwich enzyme–linked immunosorbent assay for detecting Aspergillus galactomannan. Swanink CM, et al. **J Clin Microbiol** 1997 Jan;35(1):257–60

Contamination of microscope slides with Aspergillus glaucus group A: a laboratory problem in the diagnosis of suspected mycotic infections. Ghadjari A, et al. **J Clin Pathol** 1997 Aug;50(8):699–700

Analysis of the recent cluster of invasive fungal sinusitis at the Toronto Hospital for Sick Children. Lueg EA, et al. **J Otolaryngol** 1996 Dec;25(6):366–70

In situ hybridization for Aspergillus and Penicillium in allergic fungal sinusitis: a rapid means of speciating fungal pathogens in tissues. Perez–Jaffe LA, et al. **Laryngoscope** 1997 Feb;107(2):233–40

Chronic bronchopulmonary aspergillosis in a horse with Cushing's syndrome. Carrasco L, et al. **Mycoses** 1996 Nov–Dec;39(11–12):443–7

Characterization of Aspergillus isolates by pyrolysis mass spectrometry. Law D, et al. **Mycoses** 1996 Nov–Dec; 39(11–12):433–6

Non–value of Aspergillus antigen detection in bronchoalveolar lavage fluids of patients undergoing bone marrow transplantation. Rath PM, et al. **Mycoses** 1996 Sep–Oct;39(9–10):367–70

Clinical significance of the recovery of Aspergillus species from the respiratory secretions of cystic fibrosis patients [see comments] Milla CE, et al. **Pediatr Pulmonol** 1996 Jan; 21(1):6–10. Comment in: Pediatr Pulmonol 1996 Jan;21(1):1–2. Comment in: Pediatr Pulmonol 1997 Apr;23(4):317–8.

Aspergillus organisms in patients with cystic fibrosis [letter; comment] Taccetti G, et al. **Pediatr Pulmonol** 1997 Apr; 23(4):317–8. Comment on: Pediatr Pulmonol 1996 Jan;21(1):6–10.

Association between incidence of Aspergillus antigenemia and exposure to construction works at a hospital site. Ansorg R, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):146–52

METABOLISM

Expression and functional analysis of a hyperglycosylated glucoamylase in a parental host, Aspergillus awamori var. kawachi. Goto M, et al. **Appl Environ Microbiol** 1997 Jul; 63(7):2940–3

Aflatoxin and cyclopiazonic acid production by a sclerotium–producing Aspergillus tamarii strain. Goto T, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4036–8

Ochratoxin production by Aspergillus species. Varga J, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4461–4

Characterization of a natural larger form of the antifungal protein (AFP) from Aspergillus giganteus. Martínez–Ruiz A, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):81–7

Carbon repression in Aspergilli. Ruijter GJ, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):103–14 (51 ref.)

Production of patulin and cytochalasin E by Aspergillus clavatus during malting of barley and wheat. Lopez–Diaz TM, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):129–36

Aflastatin A, a novel inhibitor of aflatoxin production by aflatoxigenic fungi. Ono M, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):111–8

Sterigmatocystin: incidence, fate and production by Aspergillus versicolor in Ras cheese. Abd Alla EA, et al. **Nahrung** 1996 Dec;40(6):310–3

Aspergillus has distinct fatty acid synthases for primary and secondary metabolism. Brown DW, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14873–7

PATHOGENICITY

Fungal ribotoxins: a family of naturally engineered targeted toxins? Kao R, et al. **Biochem Cell Biol** 1995 Nov–Dec; 73(11–12):1151–9 (70 ref.)

Virulence factors of medically important fungi. Hogan LH, et al. **Clin Microbiol Rev** 1996 Oct;9(4):469–88 (326 ref.)

PHYSIOLOGY

Regulation of gene expression by ambient pH in Aspergillus: genes expressed at acid pH. Sarkar S, et al. **Biochem Soc Trans** 1996 May;24(2):360–3 (17 ref.)

Relationship between aflatoxin biosynthesis and sporulation in Aspergillus parasiticus. Guzmán–de–Peña D, et al. **Fungal Genet Biol** 1997 Apr;21(2):198–205

Effects of the infection of toxigenic fungi and an antagonistic Streptomyces strain on wheat spikes. Fulgueira CL, et al. **Mycopathologia** 1996;134(3):137–42

ASPERGILLUS FLAVUS

see related

AFLATOXINS

Osteomyelitis of the base of the skull secondary to Aspergillus. Kountakis SE, et al. **Am J Otolaryngol** 1997 Jan–Feb;18(1):19–22 (19 ref.)

Successful treatment of primary cutaneous Aspergillus flavus infection of the hand with oral itraconazole. Epstein MD, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1106–8

Rabbit as an animal model of paranasal sinus mycoses. Chakrabarti A, et al. **J Med Vet Mycol** 1997 Jul–Aug; 35(4):295–7

Rare fatal simultaneous mould infection of the lung caused by Aspergillus flavus and the basidiomycete Coprinus sp. in a leukemic patient. Nenoff P, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):65–9

Tracheobronchial aspergillosis in a patient with AIDS treated with aerosolized amphotericin B combined with itraconazole. Dal Conte I, et al. **Mycoses** 1996 Sep–Oct; 39(9–10):371–4

ENZYMOLOGY

Molecular genetic evidence for the involvement of a specific polygalacturonase, P2c, in the invasion and spread of Aspergillus flavus in cotton bolls. Shieh MT, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3548–52

Production, purification and characterization of an extracellular alpha–amylase enzyme isolated from Aspergillus flavus. Abou–Zeid AM. **Microbios** 1997; 89(358):55–66

GENETICS

ord1, an oxidoreductase gene responsible for conversion of O–methylsterigmatocystin to aflatoxin in Aspergillus flavus. Prieto R, et al. **Appl Environ Microbiol** 1997 May; 63(5):1661–6

Identification of aflatoxin biosynthesis genes by genetic complementation in an Aspergillus flavus mutant lacking the aflatoxin gene cluster. Prieto R, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3567–71

GROWTH & DEVELOPMENT

Growth and toxigenesis of Aspergillus flavus isolates on selected spices. Bartine H, et al. **J Environ Pathol Toxicol Oncol** 1997;16(1):61–5

Polyamines as modulators of microcycle conidiation in Aspergillus flavus. Khurana N, et al. **Microbiology** 1996 Mar;142 (Pt 3):517–23

ISOLATION & PURIFICATION

Diagnosis of Aspergillus keratitis in vivo with confocal microscopy. Winchester K, et al. **Cornea** 1997 Jan; 16(1):27–31

Cough, chest pain and haemoptysis in a young nurse. Mobeireek AF. **Eur Respir J** 1996 Jun;9(6):1326–8

Detection of aflatoxinogenic fungi in figs by a PCR reaction. Färber P, et al. **Int J Food Microbiol** 1997 May 20; 36(2–3):215–20

Identification of Fourier transform infrared photoacoustic spectral features for detection of Aspergillus flavus infection in corn. Gordon SH, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):179–86

Immunoperoxidase staining for identification of Aspergillus species in routinely processed tissue sections. Verweij PE, et al. **J Clin Pathol** 1996 Oct;49(10):798–801

High incidence of Aspergillus flavus and aflatoxins in stored groundnut in Ghana and the use of a microbial assay to assess the inhibitory effects of plant extracts on aflatoxin synthesis. Awuah RT, et al. **Mycopathologia** 1996; 134(2):109–14

Aspergillus flavus cultured from a saline–filled implant [letter] Rosenblatt WB, et al. **Plast Reconstr Surg** 1997 Apr; 99(5):1470–2

METABOLISM

Co–production of aflatoxins and cyclopiazonic acid in isolates of Aspergillus flavus. Gqaleni N, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):677–85

Growth and toxigenesis of Aspergillus flavus isolates on selected spices. Bartine H, et al. **J Environ Pathol Toxicol Oncol** 1997;16(1):61–5

Influence of white light, near–UV irradiation and other environmental conditions on production of aflatoxin B1 by Aspergillus flavus and ochratoxin A by Aspergillus ochraceus. Aziz NH, et al. **Nahrung** 1997 Jun;41(3):150–4

PATHOGENICITY

Fungal flora and aflatoxin contamination of feedstuff samples in Beida Governorate, Libya. el–Maraghy SS. **Folia Microbiol (Praha)** 1996;41(1):53–60

Aflatoxin formation and varietal difference of cow pea (Vigna unguiculata (L.) Walp.) and garden pea (Pisum sativum L.) cultivars. El–Kady IA, et al. **Mycopathologia** 1996;133(3):185–8

RADIATION EFFECTS

Influence of white light, near–UV irradiation and other environmental conditions on production of aflatoxin B1 by Aspergillus flavus and ochratoxin A by Aspergillus ochraceus. Aziz NH, et al. **Nahrung** 1997 Jun;41(3):150–4

ASPERGILLUS FUMIGATUS

Invasive aspergillosis of the orbit. Eskey CJ, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1588

Administering itraconazole via nasogastric tube [letter] Ong DL, et al. **Am J Health Syst Pharm** 1996 Aug 15; 53(16):1962

Amphotericin B–associated hypertension. Le Y, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):765–7

Efficacy of prophylactic aerosol amphotericin B lipid complex in a rat model of pulmonary aspergillosis. Cicogna CE, et al. **Antimicrob Agents Chemother** 1997 Feb; 41(2):259–61

Case report: pathomorphology of an experimental disseminated Aspergillus fumigatus infection in rabbits. Vissiennon T, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jan;110(1):12–4

Retroviral–mediated gene transfer of gp91phox into bone marrow cells rescues defect in host defense against Aspergillus fumigatus in murine X–linked chronic granulomatous disease. Björgvinsdóttir H, et al. **Blood** 1997 Jan 1;89(1):41–8

Relapsing Aspergillus bronchitis in a double lung transplant patient, successfully treated with a new oral antimycotic agent [letter] Harari S, et al. **Chest** 1997 Mar;111(3):835–6

Primary cutaneous aspergillosis in neonates: case report and review. Papouli M, et al. **Clin Infect Dis** 1996 Jun; 22(6):1102–4 (14 ref.)

Treatment of cerebral Aspergillosis with itraconazole: do high doses improve the prognosis? [see comments] Sánchez C, et al. **Clin Infect Dis** 1995 Dec;21(6):1485–7 (12 ref.). Comment in: Clin Infect Dis 1996 Nov;23(5):1196–7.

Isolated cerebral aspergilloma—long–term survival of a renal transplant recipient. Mrowka C, et al. **Clin Nephrol** 1997 Jun;47(6):394–6

Pulmonary aspergillosis: a spectrum of disease. Broderick LS, et al. **Crit Rev Diagn Imaging** 1996 Dec;37(6):491–531 (26 ref.)

Cutaneous aspergillosis. Smith WF, et al. **Cutis** 1997 Mar; 59(3):138–40

Allergic bronchopulmonary aspergillosis in lung allograft recipients. Egan JJ, et al. **Eur Respir J** 1996 Jan;9(1):169–71

Exogenous lipoid pneumonia complicated by Mycobacterium fortuitum and Aspergillus fumigatus infections. Jouannic I, et al. **Eur Respir J** 1996 Jan;9(1):172–4

Aspergillus infection of the epiglottis in a HIV positive patient. Sriskandabalan P, et al. **Genitourin Med** 1996 Dec; 72(6):431–2

Fatal Aspergillus pericarditis in acquired immunodeficiency syndrome [letter] Dalhoff K, et al. **Intensive Care Med** 1996 Aug;22(8):831–3

Murine model of invasive pulmonary aspergillosis following an earlier stage, noninvasive Aspergillus infection. Nawada R, et al. **J Clin Microbiol** 1996 Jun;34(6):1433–9

Interleukin–10 is a natural suppressor of cytokine production and inflammation in a murine model of allergic bronchopulmonary aspergillosis. Grünig G, et al. **J Exp Med** 1997 Mar 17;185(6):1089–99

Aspergillus osteomyelitis after heart–lung transplantation. Taillandier J, et al. **J Heart Lung Transplant** 1997 Apr; 16(4):436–8

Aspergillus mastoiditis in a patient with acquired immunodeficiency syndrome. Yates PD, et al. **J Laryngol Otol** 1997 Jun;111(6):560–1

Post–traumatic intracranial epidural Aspergillus fumigatus abscess. Letscher V, et al. **J Med Vet Mycol** 1997 Jul–Aug; 35(4):279–82

Route of infections in bovine aspergillosis. Sarfati J, et al. **J Med Vet Mycol** 1996 Nov–Dec;34(6):379–83

ASPERGILLUS FUMIGATUS

Aspergillus endocarditis in a leukemia patient diagnosed by a PCR assay. Kanda Y, et al. **Kansenshogaku Zasshi** 1997 Mar;71(3):269–72

Evaluation of himachalol in murine invasive aspergillosis. Chowdhry L, et al. **Mycoses** 1996 Nov–Dec; 39(11–12):449–52

Chronic systemic aspergillosis [letter] Rüchel R, et al. **Mycoses** 1997 Jan–Feb;40(1–2):1

Intracerebral Aspergillus abscess: case report and review of the literature. Artico M, et al. **Neurosurg Rev** 1997; 20(2):135–8 (34 ref.)

Aspergillus fumigatus infection of an automatic internal cardiac defibrillator. Dunn CJ, et al. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 1):2156–7

Aspergillomas of the sphenoid sinus: a series of 10 cases treated by endoscopic sinus surgery. Klossek JM, et al. **Rhinology** 1996 Sep;34(3):179–83

[Invasive aspergillosis: nosocomial origin of epidemics. Review of the literature] Nolard N. **Bull Acad Natl Med** 1996 Apr;180(4):849–56; discussion 856–8 (35 ref.) (Eng. Abstr.) **(Fre)**

[Disseminated aspergillosis and mucormycosis. A case report] Mölle M, et al. **Mycoses** 1996;39 Suppl 1:59–64 (Eng. Abstr.) **(Ger)**

[Allergic bronchopulmonary aspergillosis (ABPA) in patients with cystic fibrosis (CF): clinical significance, diagnosis and therapy] Paul KD, et al. **Mycoses** 1996;39 Suppl 1:55–8 (Eng. Abstr.) **(Ger)**

[Pulmonary aspergilloma with ring enhancement on chest CT scans] Muro K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):227–30 (Eng. Abstr.) **(Jpn)**

[Primary pulmonary aspergilloma presenting as an isolated nodular shadow] Suyama H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):179–83 (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Molecular typing of Aspergillus fumigatus strains by sequence-specific DNA primer (SSDP) analysis. Mondon P, et al. **FEMS Immunol Med Microbiol** 1997 Feb; 17(2):95–102

DRUG EFFECTS

Mechanisms of resistance to azole antifungals. Marichal P, et al. **Acta Biochim Pol** 1995;42(4):509–16 (57 ref.)

Itraconazole resistance in Aspergillus fumigatus. Denning DW, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1364–8

Efficacy of UK–109496, a new azole antifungal agent, in an experimental model of invasive aspergillosis. George D, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):86–91

Comparison of voriconazole (UK–109,496) and itraconazole in prevention and treatment of Aspergillus fumigatus endocarditis in guinea pigs. Martin MV, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):13–6

Efficacy of SCH–56592 in a temporarily neutropenic murine model of invasive aspergillosis with an itraconazole–susceptible and an itraconazole–resistant isolate of Aspergillus fumigatus. Oakley KL, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1504–7

T–8581, a new orally and parenterally active triazole antifungal agent: in vitro and in vivo evaluations. Yotsuji A, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):30–4

A comparative study of the broth micro– and macro–dilution techniques for the determination of the in vitro susceptibility of Aspergillus fumigatus. Manavathu EK, et al. **Can J Microbiol** 1996 Sep;42(9):960–4

Biochemical characterisation of ketoconazole inhibitory action on Aspergillus fumigatus. Venkateswarlu K, et al. **FEMS Immunol Med Microbiol** 1996 Nov;16(1):11–20

Effect of nitric oxide donors on survival of conidia, germination and growth of Aspergillus fumigatus in vitro. Kunert J. **Folia Microbiol (Praha)** 1995;40(3):238–44

Effects of synthetic form of tracheal antimicrobial peptide on respiratory pathogens. Lawyer C, et al. **J Antimicrob Chemother** 1996 Mar;37(3):599–604

Stereoselective interaction of SCH 39304, a triazole, with sterol 14alpha–demethylase of Aspergillus fumigatus. Venkateswarlu K, et al. **J Antimicrob Chemother** 1997 May; 39(5):597–601

In–vitro activity of D0870, a new triazole antifungal drug, in comparison with fluconazole and itraconazole against Aspergillus fumigatus and Candida krusei. Venkateswarlu K, et al. **J Antimicrob Chemother** 1997 Jun;39(6):731–6

Colorimetric susceptibility testing for Aspergillus fumigatus: comparison of menadione–augmented 3–(4,5–dimethyl–2–thiazolyl)–2,5–diphenyl–2H–tetrazolium bromide and Alamar blue tests. Jahn B, et al. **J Clin Microbiol** 1996 Aug;34(8):2039–41

IL–10 exerts suppressive and enhancing effects on antifungal activity of mononuclear phagocytes against Aspergillus fumigatus. Roilides E, et al. **J Immunol** 1997 Jan 1; 158(1):322–9

Antileukoprotease: an endogenous protein in the innate mucosal defense against fungi. Tomee JF, et al. **J Infect Dis** 1997 Sep;176(3):740–7

ENZYMOLOGY

Gene cloning, purification, and characterization of a heat–stable phytase from the fungus Aspergillus fumigatus. Pasamontes L, et al. **Appl Environ Microbiol** 1997 May; 63(5):1696–700

Purification and characterization of an endo–1,3–beta–glucanase from Aspergillus fumigatus. Fontaine T, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):315–21

Expression of the Cu,Zn superoxide dismutase of Aspergillus fumigatus as determined by immunochemistry and immunoelectron microscopy. Hamilton AJ, et al. **FEMS Immunol Med Microbiol** 1996 Jun;14(2–3):95–102

Cloning and characterization of chsD, a chitin synthase–like gene of Aspergillus fumigatus. Mellado E, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):69–76

An extracellular phosphatase from Aspergillus fumigatus. Yadav R, et al. **Indian J Exp Biol** 1996 Dec;34(12):1257–60

Dipeptidyl–peptidase IV secreted by Aspergillus fumigatus, a fungus pathogenic to humans. Beauvais A, et al. **Infect Immun** 1997 Aug;65(8):3042–7

Differential patterns of activity displayed by two exo–beta–1,3–glucanases associated with the Aspergillus fumigatus cell wall. Fontaine T, et al. **J Bacteriol** 1997 May;179(10):3154–63

Biochemical and antigenic characterization of a new dipeptidyl–peptidase isolated from Aspergillus fumigatus. Beauvais A, et al. **J Biol Chem** 1997 Mar 7;272(10):6238–44

A novel beta–(1–3)–glucanosyltransferase from the cell wall of Aspergillus fumigatus. Hartland RP, et al. **J Biol Chem** 1996 Oct 25;271(43):26843–9

Molecular cloning and expression of amadoriase isoenzyme (fructosyl amine:oxygen oxidoreductase, EC 1.5.3) from Aspergillus fumigatus. Takahashi M, et al. **J Biol Chem** 1997 May 9;272(19):12505–7

Proteases from Aspergillus fumigatus induce release of proinflammatory cytokines and cell detachment in airway epithelial cell lines. Tomee JF, et al. **J Infect Dis** 1997 Jul;176(1):300–3

Increased cytochrome P–450 activity in Aspergillus fumigatus after xenobiotic exposure. Baillie GS, et al. **J Med Vet Mycol** 1996 Sep–Oct;34(5):341–7

The Aspergillus fumigatus chsC and chsG genes encode class III chitin synthases with different functions. Mellado E, et al. **Mol Microbiol** 1996 May;20(3):667–79

GENETICS

Gene cloning, purification, and characterization of a heat–stable phytase from the fungus Aspergillus fumigatus. Pasamontes L, et al. **Appl Environ Microbiol** 1997 May; 63(5):1696–700

Molecular typing of Aspergillus fumigatus strains by sequence–specific DNA primer (SSDP) analysis. Mondon P, et al. **FEMS Immunol Med Microbiol** 1997 Feb; 17(2):95–102

Cloning and characterization of chsD, a chitin synthase–like gene of Aspergillus fumigatus. Mellado E, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):69–76

Genetic diversity among clinical and environmental isolates of Aspergillus fumigatus. Debeaupuis JP, et al. **Infect Immun** 1997 Aug;65(8):3080–5

Polymerase chain reaction amplification of Asp f I and alkaline protease genes from fungus balls: clinical application in pulmonary aspergillosis. Urata T, et al. **Intern Med** 1997 Jan;36(1):19–27

PCR detection of DNA specific for Aspergillus species in serum of patients with invasive aspergillosis. Yamakami Y, et al. **J Clin Microbiol** 1996 Oct;34(10):2464–8

The Aspergillus fumigatus mepB gene encodes an 82 kDa intracellular metalloproteinase structurally related to mammalian thimet oligopeptidases. Ibrahim–Granet O, et al. **Microbiology** 1997 Jul;143 (Pt 7):2247–53

Genetic diversity among isolates of Aspergillus fumigatus in patients with cystic fibrosis. Rath PM, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):450–5

[Significance of Aspergillus fumigatus rDNA detected by polymerase chain reaction in diagnosis of pulmonary aspergillosis] Ohgoe K, et al. **Kansenshogaku Zasshi** 1997 Jun;71(6):507–12 (Eng. Abstr.) **(Jpn)**

GROWTH & DEVELOPMENT

Expression and identification of a laminin–binding protein in Aspergillus fumigatus conidia. Tronchin G, et al. **Infect Immun** 1997 Jan;65(1):9–15

Inhibition of growth of fungi pathogenic to man by Stenotrophomonas maltophilia. Kerr JR. **J Med Microbiol** 1996 Nov;45(5):380–2

IMMUNOLOGY

Clinical responses to ingested fungal alpha–amylase and hemicellulase in persons sensitized to Aspergillus fumigatus? Cullinan P, et al. **Allergy** 1997 Mar;52(3):346–9

Sensitization to Aspergillus fumigatus and lung function in children with cystic fibrosis. Wojnarowski C, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1902–7

Automated specific IgE assay with recombinant allergens: evaluation of the recombinant Aspergillus fumigatus allergen I in the Pharmacia Cap System. Crameri R, et al. **Clin Exp Allergy** 1996 Dec;26(12):1411–9

Aspergillus fumigatus antigens: the Pepys' years. Longbottom JL. **Clin Exp Allergy** 1997 May;27 Suppl 1:6–8

Development of bone marrow eosinophilia in mice induced by Aspergillus fumigatus antigens. Murali PS, et al. **Clin Immunol Immunopathol** 1997 Aug;84(2):216–20

Sialic acid–dependent recognition of laminin and fibrinogen by Aspergillus fumigatus conidia. Bouchara JP, et al. **Infect Immun** 1997 Jul;65(7):2717–24

Binding of pulmonary surfactant proteins A and D to Aspergillus fumigatus conidia enhances phagocytosis and killing by human neutrophils and alveolar macrophages. Madan T, et al. **Infect Immun** 1997 Aug;65(8):3171–9

Cloning, production, characterization and IgE cross–reactivity of different manganese superoxide dismutases in individuals sensitized to Aspergillus fumigatus. Mayer C, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):213–5

Skin test reactivity to recombinant Aspergillus fumigatus allergen I/a in patients with cystic fibrosis. Nikolaizik WH, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):403–8

Purification of a major allergen, Asp f 2 binding to IgE in allergic bronchopulmonary aspergillosis, from culture filtrate of Aspergillus fumigatus. Banerjee B, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):821–7

IL–10 exerts suppressive and enhancing effects on antifungal activity of mononuclear phagocytes against Aspergillus fumigatus. Roilides E, et al. **J Immunol** 1997 Jan 1; 158(1):322–9

Granulocyte colony–stimulating factor administered in vivo augments neutrophil–mediated activity against opportunistic fungal pathogens. Liles WC, et al. **J Infect Dis** 1997 Apr;175(4):1012–5

Purification and characterization of a 93 kDa Aspergillus fumigatus antigen with diagnostic potential. Haynes KA, et al. **J Med Vet Mycol** 1996 Nov–Dec;34(6):421–6

Aspergillus fumigatus specific antibodies in multitransfused children with human immunodeficiency virus (HIV) infection in relation to serum levels of Interleukin–2, gamma Interferon and tumour necrosis factor. Bhatnagar PK, et al. **J Trop Pediatr** 1996 Apr;42(2):85–90

Identification and evaluation of a major cytotoxin of A. fumigatus. Madan T, et al. **Mol Cell Biochem** 1997 Feb; 167(1–2):89–97

ISOLATION & PURIFICATION

Development of a method for the identification, using the polymerase chain reaction, of Aspergillus fumigatus isolated from ostriches. Katz ME, et al. **Aust Vet J** 1996 Jul;74(1):50–4

Aspergillar fungemia in an infant with hepatoblastoma. Marec–Bérard P, et al. **Clin Infect Dis** 1996 Dec; 23(6):1326–7

Aspergillus meningitis in an immunocompetent adult successfully treated with itraconazole. Mikolich DJ, et al. **Clin Infect Dis** 1996 Dec;23(6):1318–9

Muscle abscess due to Aspergillus fumigatus in a patient with AIDS. Mylonakis E, et al. **Clin Infect Dis** 1996 Dec; 23(6):1323–4

Intervertebral disc space infection caused by Aspergillus fumigatus. Lang EW, et al. **Eur Spine J** 1996;5(3):207–9

Chitinase levels in guinea pig blood are increased after systemic infection with Aspergillus fumigatus. Overdijk B, et al. **Glycobiology** 1996 Sep;6(6):627–34

Primary lymph node invasive aspergillosis. Mazzoni A, et al. **Infection** 1996 Jan–Feb;24(1):37–42

Laboratory implementation of a rapid three–stain technique for detection of microorganisms from lower respiratory specimens. Maymind M, et al. **J Clin Lab Anal** 1996; 10(2):104–9

Multicentric epidemiological study of Aspergillus fumigatus isolates by multilocus enzyme electrophoresis. Rodriguez E, et al. **J Clin Microbiol** 1996 Oct;34(10):2559–68

Genotypic characterization of sequential Aspergillus fumigatus isolates from patients with cystic fibrosis. Verweij PE, et al. **J Clin Microbiol** 1996 Oct;34(10):2595–7

Immunoperoxidase staining for identification of Aspergillus species in routinely processed tissue sections. Verweij PE, et al. **J Clin Pathol** 1996 Oct;49(10):798–801

Invasive Aspergillus sinusitis in patients with human immunodeficiency virus infection. Report of 2 cases and review. Mylonakis E, et al. **Medicine (Baltimore)** 1997 Jul; 76(4):249–55 (18 ref.)

Natural occurrence of gliotoxin in turkeys infected with Aspergillus fumigatus, Fresenius. Richard JL, et al. **Mycopathologia** 1996;134(3):167–70

A painful knee in an immunocompromised patient. Pattison RM, et al. **Postgrad Med J** 1997 Jan;73(855):49–50

Aspergillus fumigatus Asp fI DNA is prevalent in sputum from patients with coal workers' pneumoconiosis. Nomoto Y, et al. **Respiration** 1997;64(4):291–5

[Invasive pulmonary aspergillosis caused by aspiration of polluted water after nearly drowning] Mizukane R, et al. **Kansenshogaku Zasshi** 1996 Nov;70(11):1181–5 (Eng. Abstr.) **(Jpn)**

[Otomastoiditis caused by Aspergillus in AIDS] Martínez–Berriotxoa A, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):200–2 (Eng. Abstr.) **(Spa)**

METABOLISM

Apolipoprotein B inhibits the hemolytic activity of asp–hemolysin from Aspergillus fumigatus. Fukuchi Y, et al. **Biol Pharm Bull** 1996 Apr;19(4):547–50

Polyamine metabolism in the thermotolerant mesophilic fungus Aspergillus fumigatus. Walters DR, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):433–7

Exacerbation of invasive aspergillosis by the immunosuppressive fungal metabolite, gliotoxin. Sutton P, et al. **Immunol Cell Biol** 1996 Aug;74(4):318–22

Spirotryprostatin B, a novel mammalian cell cycle inhibitor produced by Aspergillus fumigatus [letter] Cui CB, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):832–5

Novel reduction and hydroxylation products formed by Aspergillus fumigatus from Reichstein's substance S. Garai S, et al. **Steroids** 1997 Feb;62(2):253–7

PATHOGENICITY

Murine macrophage elastolytic activity induced by Aspergillus fumigatusstrains in vitro: evidence of the expression of two macrophage–induced protease genes. Rodriguez E, et al. **Can J Microbiol** 1997 Jul;43(7):649–57

Attenuated virulence of uridine–uracil auxotrophs of Aspergillus fumigatus. D'Enfert C, et al. **Infect Immun** 1996 Oct;64(10):4401–5

Absence of respiratory burst in X–linked chronic granulomatous disease mice leads to abnormalities in both host defense and inflammatory response to Aspergillus fumigatus. Morgenstern DE, et al. **J Exp Med** 1997 Jan 20;185(2):207–18

Variation in virulence of Aspergillus fumigatus strains in a murine model of invasive pulmonary aspergillosis. Mondon P, et al. **J Med Microbiol** 1996 Sep;45(3):186–91

Virulence of an aspergillopepsin–deficient mutant of Aspergillus fumigatus and evidence for another aspartic proteinase linked to the fungal cell wall. Reichard U, et al. **J Med Vet Mycol** 1997 May–Jun;35(3):189–96

PHYSIOLOGY

Septic arthritis by Aspergillus fumigatus: a complication of corticosteroid infiltration [letter] García–Porrúa C, et al. **Br J Rheumatol** 1997 May;36(5):610–1

Aspergillus fumigatus chsE: a gene related to CHS3 of Saccharomyces cerevisiae and important for hyphal growth and conidiophore development but not pathogenicity. Aufauvre–Brown A, et al. **Fungal Genet Biol** 1996 Feb; 21(1):141–52

Binding of extracellular matrix proteins to Aspergillus fumigatus conidia. Gil ML, et al. **Infect Immun** 1996 Dec; 64(12):5239–47

Internalization of Aspergillus fumigatus conidia by epithelial and endothelial cells. Paris S, et al. **Infect Immun** 1997 Apr; 65(4):1510–4

Binding and germination of Aspergillus fumigatus conidia on cultured A549 pneumocytes. DeHart DJ, et al. **J Infect Dis** 1997 Jan;175(1):146–50

Binding of Aspergillus fumigatus spores to lung epithelial cells and basement membrane proteins: relevance to the asthmatic lung. Bromley IM, et al. **Thorax** 1996 Dec; 51(12):1203–9

ASPERGILLUS NIDULANS

Aspergillus endocarditis in chronic granulomatous disease. Casson DH, et al. **Acta Paediatr** 1996 Jun;85(6):758–9

Aspergillus nidulans infection in a patient with chronic granulomatous disease. Kim M, et al. **J Korean Med Sci** 1997 Jun;12(3):244–8

CHEMISTRY

The Aspergillus nidulans transcription factor AlcR forms a stable complex with its half–site DNA: a NMR study. Cerdan R, et al. **FEBS Lett** 1997 May 19;408(2):235–40

The uvsF gene region in Aspergillus nidulans codes for a protein with homology to DNA replication factor C. Kafer E, et al. **Gene** 1997 Jun 3;191(2):155–9

CYTOLOGY

The G2/M DNA damage checkpoint inhibits mitosis through Tyr15 phosphorylation of p34cdc2 in Aspergillus nidulans. Ye XS, et al. **EMBO J** 1997 Jan 2;16(1):182–92

The role of gamma–tubulin in mitotic spindle formation and cell cycle progression in Aspergillus nidulans. Martin MA, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):623–33

Cytokinesis in Aspergillus nidulans is controlled by cell size, nuclear positioning and mitosis. Wolkow TD, et al. **J Cell Sci** 1996 Aug;109 (Pt 8):2179–88

DRUG EFFECTS

Multidrug resistance in Aspergillus nidulans involves novel ATP–binding cassette transporters. Del Sorbo G, et al. **Mol Gen Genet** 1997 Apr 28;254(4):417–26

ENZYMOLOGY

Spectrophotometric determination of homogentisate using Aspergillus nidulans homogentisate dioxygenase. Fernández–Cañón JM, et al. **Anal Biochem** 1997 Feb 15; 245(2):218–21

Aspergillus nidulans stcP encodes an O–methyltransferase that is required for sterigmatocystin biosynthesis. Kelkar HS, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4296–8

Induction of beta–oxidation enzymes and microbody proliferation in Aspergillus nidulans. Valenciano S, et al. **Arch Microbiol** 1996 Nov;166(5):336–41

Purification and characterization of the precursor tRNA 3'–end processing nuclease from Aspergillus nidulans. Han SJ, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):354–8

Conformational changes and the role of metals in the mechanism of type II dehydroquinase from Aspergillus nidulans. Bottomley JR, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):269–78

Differential poisoning of human and Aspergillus nidulans DNA topoisomerase I by bi– and terbenzimidazoles. Goldman GH, et al. **Biochemistry** 1997 May 27; 36(21):6488–94

The cloning and sequencing of the alcB gene, coding for alcohol dehydrogenase II, in Aspergillus nidulans. Hunter GD, et al. **Curr Genet** 1996 Jan;29(2):122–9

Glutamine–330 is not essential for activity in isopenicillin N synthase from Aspergillus nidulans. Sami M, et al. **FEBS Lett** 1997 Mar 24;405(2):191–4

Pyruvate decarboxylase and anaerobic survival in Aspergillus nidulans. Lockington RA, et al. **Gene** 1997 May 20; 191(1):61–7

Identification, isolation and sequence of the Aspergillus nidulans xlnC gene encoding the 34–kDa xylanase. MacCabe AP, et al. **Gene** 1996 Oct 10;175(1–2):29–33

Two divergent catalase genes are differentially regulated during Aspergillus nidulans development and oxidative stress. Kawasaki L, et al. **J Bacteriol** 1997 May; 179(10):3284–92

Expression of a constitutively active Ca2+/calmodulin–dependent kinase in Aspergillus nidulans spores prevents germination and entry into the cell cycle. Dayton JS, et al. **J Biol Chem** 1997 Feb 7; 272(6):3223–30

Allotopic expression of mitochondrial ATP synthase genes in nucleus of Saccharomyces cerevisiae. Gray RE, et al. **Methods Enzymol** 1996;264:369–89

Characterization of NIMA protein kinase in Aspergillus nidulans. Ye XS, et al. **Methods Enzymol** 1997;283:520–32

Purification and properties of beta–galactosidase from Aspergillus nidulans. Díaz M, et al. **Microbiologia** 1996 Dec;12(4):585–92

Separation and partial purification of beta–glucosidase and two endoglucanases in Aspergillus niveus. Taj–Aldeen SJ, et al. **Microbiologia** 1996 Mar;12(1):91–8

New evidence for old detective work [letter] Arst HN Jr. **Microbiology** 1997 May;143 (Pt 5):1481–2

Ca(2+)/calmodulin–dependent kinase is essential for both growth and nuclear division in Aspergillus nidulans. Dayton JS, et al. **Mol Biol Cell** 1996 Oct;7(10):1511–9

Cloning and characterization of the citA gene encoding the mitochondrial citrate synthase of Aspergillus nidulans. Park BW, et al. **Mol Cells** 1997 Apr 30;7(2):290–5

delta–(L–alpha–aminoadipyl)–L–cysteinyl–D–valine synthetase is a rate limiting enzyme for penicillin production in Aspergillus nidulans. Kennedy J, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):189–97

The orlA gene from Aspergillus nidulans encodes a trehalose–6–phosphate phosphatase necessary for normal growth and chitin synthesis at elevated temperatures. Borgia PT, et al. **Mol Microbiol** 1996 Jun;20(6):1287–96

Molecular characterization of the Aspergillus nidulans treA gene encoding an acid trehalase required for growth on trehalose. d'Enfert C, et al. **Mol Microbiol** 1997 Apr; 24(1):203–16

The gene encoding the major proline transporter of Aspergillus nidulans is upregulated during conidiospore germination and in response to proline induction and amino acid starvation. Tazebay UH, et al. **Mol Microbiol** 1997 Apr;24(1):105–17

GENETICS

The base analog 6–N–hydroxylaminopurine (HAP) mutagenesis is dependent on the integrity of the uvsE, uvsF and uvsB genes in Aspergillus nidulans. Babudri N, et al. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):249–55

Aspergillus nidulans stcP encodes an O–methyltransferase that is required for sterigmatocystin biosynthesis. Kelkar HS, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4296–8

Analysis of mutations in the creA gene involved in carbon catabolite repression in Aspergillus nidulans. Shroff RA, et al. **Can J Microbiol** 1996 Sep;42(9):950–9

RNA–mediated transformation in Aspergillus nidulans recovers gene functions lost by deletion or by point mutations. Zucchi TM. **Cell Mol Biol (Noisy–le–grand)** 1996 Sep;42(6):889–904

Cloning and characterization of the Aspergillus nidulans cysB gene encoding cysteine synthase. Topczewski J, et al. **Curr Genet** 1997 Apr;31(4):348–56

The integration of nitrogen and carbon catabolite repression in Aspergillus nidulans requires the GATA factor AreA and an additional positive–acting element, ADA. Gonzalez R, et al. **EMBO J** 1997 May 15;16(10):2937–44

The Aspergillus nidulans sepA gene encodes an FH1/2 protein involved in cytokinesis and the maintenance of cellular polarity. Harris SD, et al. **EMBO J** 1997 Jun; 16(12):3474–83

Subtle hydrophobic interactions between the seventh residue of the zinc finger loop and the first base of an HGATAR sequence determine promoter–specific recognition by the Aspergillus nidulans GATA factor AreA. Ravagnani A, et al. **EMBO J** 1997 Jul 1;16(13):3974–86

Properties of yeast expressed Aspergillus nidulans chitin synthase B which is essential for hyphal growth. Tatsuno K, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):279–84

Autonomous plasmid replication in Aspergillus nidulans: AMA1 and MATE elements. Aleksenko A, et al. **Fungal Genet Biol** 1997 Jun;21(3):373–87 (83 ref.)

The amdA regulatory gene of Aspergillus nidulans: characterization of gain–of–function mutations and identification of binding sites for the gene product. Andrianopoulos A, et al. **Fungal Genet Biol** 1996 Feb; 21(1):50–63

The design of pooling experiments for screening a clone map. Balding DJ, et al. **Fungal Genet Biol** 1997 Jun;21(3):302–7

The chsB gene of Aspergillus nidulans is necessary for normal hyphal growth and development [published erratum appears in Fungal Genet Biol 1996 Dec;20(4):314] Borgia PT, et al. **Fungal Genet Biol** 1996 Sep;20(3):193–203

The validity of the Aspergillus nidulans linkage map. Clutterbuck AJ. **Fungal Genet Biol** 1997 Jun;21(3):267–77 (55 ref.)

Isolation of Aspergillus nidulans mutants that overcome brlA–induced growth arrest. Marhoul J, et al. **Fungal Genet Biol** 1996 Feb;21(1):109–17

The Aspergillus nidulans septin encoding gene, aspB, is essential for growth. Momany M, et al. **Fungal Genet Biol** 1996 Feb;21(1):92–100

The chsD and chsE genes of Aspergillus nidulans and their roles in chitin synthesis. Specht CA, et al. **Fungal Genet Biol** 1996 Jun;20(2):153–67

Evolution of transcription–regulating proteins: caveat lector! [letter; comment] Arst HN Jr, et al. **Gene** 1997 Jul 11;173 Suppl:S1–4. Comment on: Gene 1994 Sep 2;146(2):145–58.

The uvsF gene region in Aspergillus nidulans codes for a protein with homology to DNA replication factor C. Kafer E, et al. **Gene** 1997 Jun 3;191(2):155–9

The sequence of palF, an environmental pH response gene in Aspergillus nidulans. Maccheroni W Jr, et al. **Gene** 1997 Jul 31;194(2):163–7

Genetic and molecular analysis of a tRNA(Leu) missense suppressor of nudC3, a mutation that blocks nuclear migration in Aspergillus nidulans. Chiu YH, et al. **Genetics** 1997 Mar;145(3):707–14

An extragenic suppressor of the mitosis–defective bimD6 mutation of Aspergillus nidulans codes for a chromosome scaffold protein. Holt CL, et al. **Genetics** 1996 Mar; 142(3):777–87

Isolation of two apsA suppressor strains in Aspergillus nidulans. Krüger M, et al. **Genetics** 1996 Oct;144(2):533–40

Aspergillus fabM encodes an essential product that is related to poly(A)–binding proteins and activates development when overexpressed. Marhoul JF, et al. **Genetics** 1996 Dec; 144(4):1463–70

Expression of human recombinant beta 2–microglobulin by Aspergillus nidulans and its activity. O'Herrin SM, et al. **Hum Immunol** 1996 Dec;51(2):63–72

Characterization of the Aspergillus nidulans aspnd1 gene demonstrates that the ASPND1 antigen, which it encodes, and several Aspergillus fumigatus immunodominant antigens belong to the same family. Calera JA, et al. **Infect Immun** 1997 Apr;65(4):1335–44

Two divergent catalase genes are differentially regulated during Aspergillus nidulans development and oxidative stress. Kawasaki L, et al. **J Bacteriol** 1997 May; 179(10):3284–92

Characterization of the pH signal transduction pathway gene palA of Aspergillus nidulans and identification of possible homologs. Negrete–Urtasun S, et al. **J Bacteriol** 1997 Mar; 179(5):1832–5

Aspergillus nidulans stcL encodes a putative cytochrome P–450 monooxygenase required for bisfuran desaturation during aflatoxin/sterigmatocystin biosynthesis. Kelkar HS, et al. **J Biol Chem** 1997 Jan 17;272(3):1589–94

The zinc binuclear cluster activator AlcR is able to bind to single sites but requires multiple repeated sites for synergistic activation of the alcA gene in Aspergillus nidulans. Panozzo C, et al. **J Biol Chem** 1997 Sep 5; 272(36):22859–65

Allotopic expression of mitochondrial ATP synthase genes in nucleus of Saccharomyces cerevisiae. Gray RE, et al. **Methods Enzymol** 1996;264:369–89

nuvA, an Aspergillus nidulans gene involved in DNA repair and recombination, is a homologue of Saccharomyces cerevisiae RAD18 and Neurospora crassa uvs–2. Iwanejko L, et al. **Microbiology** 1996 Mar;142 (Pt 3):505–15

hymA (hypha–like metulae), a new developmental mutant of Aspergillus nidulans. Karos M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3211–8

The TBP gene from Aspergillus nidulans–structure and expression in Saccharomyces cerevisiae. Kucharski R, et al. **Microbiology** 1997 Apr;143 (Pt 4):1263–70

Aspergillus asexual reproduction and sexual reproduction are differentially affected by transcriptional and translational mechanisms regulating stunted gene expression. Wu J, et al. **Mol Cell Biol** 1997 Oct;17(10):6191–201

Cloning and characterization of the citA gene encoding the mitochondrial citrate synthase of Aspergillus nidulans. Park BW, et al. **Mol Cells** 1997 Apr 30;7(2):290–5

Gene expression from replicating plasmids in Aspergillus nidulans. Aleksenko A, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):242–6

Gene targeting is locus dependent in the filamentous fungus Aspergillus nidulans. Bird D, et al. **Mol Gen Genet** 1997 Jun;255(2):219–25

Two uvs genes of Aspergillus nidulans with different functions in error–prone repair: uvsI, active in mutation–specific reversion, and uvsC, a recA homolog,

required for all UV mutagenesis. Chae SK, et al. **Mol Gen Genet** 1997 May;254(6):643–53

An Aspergillus nidulans nuclear protein, AnCP, involved in enhancement of Taka-amylase A gene expression, binds to the CCAAT-containing taaG2, amdS, and gatA promoters. Kato M, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):119–26

The Aspergillus nidulans genes chsA and chsD encode chitin synthases which have redundant functions in conidia formation [corrected and republished article originally appeared in Mol Gen Genet 1996 Jun; 251(4):442–50] Motoyama T, et al. **Mol Gen Genet** 1997 Jan 27; 253(4):520–8

The acetate regulatory gene facB of Aspergillus nidulans encodes a Zn(II)2Cys6 transcriptional activator. Todd RB, et al. **Mol Gen Genet** 1997 May 20;254(5):495–504

Cloning, sequencing, disruption and phenotypic analysis of uvsC, an Aspergillus nidulans homologue of yeast RAD51. van Heemst D, et al. **Mol Gen Genet** 1997 May; 254(6):654–64

The Aspergillus nidulans lysF gene encodes homoaconitase, an enzyme involved in the fungus-specific lysine biosynthesis pathway. Weidner G, et al. **Mol Gen Genet** 1997 Jul;255(3):237–47

Mutations in the heavy chain of cytoplasmic dynein suppress the nudF nuclear migration mutation of Aspergillus nidulans. Willins DA, et al. **Mol Gen Genet** 1997 Jun; 255(2):194–200

Multiple copies of MATE elements support autonomous plasmid replication in Aspergillus nidulans. Aleksenko A, et al. **Mol Microbiol** 1996 Apr;20(2):427–34

A newly identified gene cluster in Aspergillus nidulans comprises five novel genes localized in the alc region that are controlled both by the specific transactivator AlcR and the general carbon-catabolite repressor CreA. Fillinger S, et al. **Mol Microbiol** 1996 May;20(3):475–88

Identification of amdX, a new Cys-2-His-2 (C2H2) zinc-finger gene involved in the regulation of the amdS gene of Aspergillus nidulans. Murphy RL, et al. **Mol Microbiol** 1997 Feb;23(3):591–602

A protein encoded by a group I intron in Aspergillus nidulans directly assists RNA splicing and is a DNA endonuclease. Ho Y, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):8994–9

GROWTH & DEVELOPMENT

Salt sensitivity and arginase activity in Aspergillus nidulans. Attwell NA, et al. **Biochem Soc Trans** 1997 Feb;25(1):98S

The Aspergillus FlbA RGS domain protein antagonizes G protein signaling to block proliferation and allow development. Yu JH, et al. **EMBO J** 1996 Oct 1; 15(19):5184–90

The chsB gene of Aspergillus nidulans is necessary for normal hyphal growth and development [published erratum appears in Fungal Genet Biol 1996 Dec;20(4):314] Borgia PT, et al. **Fungal Genet Biol** 1996 Sep;20(3):193–203

hymA (hypha-like metulae), a new developmental mutant of Aspergillus nidulans. Karos M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3211–8

Aspergillus nidulans maintains short telomeres throughout development. Bhattacharyya A, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1426–31

METABOLISM

Induction of beta-oxidation enzymes and microbody proliferation in Aspergillus nidulans. Valenciano S, et al. **Arch Microbiol** 1996 Nov;166(5):336–41

Characterization of gamma-tubulin complexes in Aspergillus nidulans and detection of putative gamma-tubulin interacting proteins. Akashi T, et al. **Cell Motil Cytoskeleton** 1997;37(2):149–58

Cloning and characterization of the Aspergillus nidulans cysB gene encoding cysteine synthase. Topczewski J, et al. **Curr Genet** 1997 Apr;31(4):348–56

The phenylacetic acid uptake system of Aspergillus nidulans is under a creA-independent model of catabolic repression which seems to be mediated by acetyl-CoA. Fernández-Cañón JM, et al. **J Antibiot (Tokyo)** 1997 Jan; 50(1):45–52

Three binding sites for the Aspergillus nidulans PacC zinc-finger transcription factor are necessary and sufficient for regulation by ambient pH of the isopenicillin N synthase gene promoter. Espeso EA, et al. **J Biol Chem** 1996 Nov 15;271(46):28825–30

An Aspergillus nidulans nuclear protein, AnCP, involved in enhancement of Taka-amylase A gene expression, binds to the CCAAT-containing taaG2, amdS, and gatA promoters. Kato M, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):119–26

Mutations in a dispensable region of the UaY transcription factor of Aspergillus nidulans differentially affect the expression of structural genes. Oestreicher N, et al. **Mol Microbiol** 1997 Jun;24(6):1189–99

A protein encoded by a group I intron in Aspergillus nidulans directly assists RNA splicing and is a DNA endonuclease. Ho Y, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):8994–9

[Regulation of folate metabolism in fungi: Aspergillus nidulans as an experimental model] Paszewski A, et al. **Postepy Biochem** 1996;42(2):129–32 (21 ref.) **(Pol)**

PHYSIOLOGY

Analysis of nuclear migration in Aspergillus nidulans. Xiang X, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:813–9

Isolation of differentially expressed cDNA clones from salt-adapted Aspergillus nidulans. Redkar RJ, et al. **Curr Genet** 1996 Jan;29(2):130–5

Aspergillus sporulation and mycotoxin production both require inactivation of the FadA G alpha protein-dependent signaling pathway. Hicks JK, et al. **EMBO J** 1997 Aug 15;16(16):4916–23

Factors affecting the spread of double-stranded RNA viruses in Aspergillus nidulans. Coenen A, et al. **Genet Res** 1997 Feb;69(1):1–10

VIROLOGY

Factors affecting the spread of double-stranded RNA viruses in Aspergillus nidulans. Coenen A, et al. **Genet Res** 1997 Feb;69(1):1–10

ASPERGILLUS NIGER

[Aspergillus niger osteitis of the middle ear in a patient with HIV infection (letter)] Lesueur A, et al. **Presse Med** 1997 Jul 5;26(23):1098 **(Fre)**

CHEMISTRY

Supplemental phytases of microbial and cereal sources improve dietary phytate phosphorus utilization by pigs from weaning through finishing. Han YM, et al. **J Anim Sci** 1997 Apr;75(4):1017–25

CYTOLOGY

Cell wall analysis in Aspergillus niger strains characterized by different tolerance to toxic compounds of beet molasses. Zakowska Z, et al. **Acta Microbiol Pol** 1997;46(1):27–36

DRUG EFFECTS

Cell wall analysis in Aspergillus niger strains characterized by different tolerance to toxic compounds of beet molasses. Zakowska Z, et al. **Acta Microbiol Pol** 1997;46(1):27–36

DNA topoisomerase inhibitors as antifungal agents. Shen LL, et al. **Adv Pharmacol** 1994;29B:227–44 (45 ref.)

A major bioactive component of plant cell walls, ferulic acid, influences feruloyl esterase production in Aspergillus niger. Faulds CB, et al. **Biochem Soc Trans** 1996 Aug;24(3):386S

ENZYMOLOGY

Localization of an endoglucanase and a xylanase from Aspergillus niger in soybean by immunogold-cytochemical labeling. Varzakas T, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:176–82

Synthesis of isopropyl-1-thio-beta-D-glucopyranoside (IPTGlc), an inducer of Aspergillus niger B1 beta-glucosidase production. Birk R, et al. **Appl Biochem Biotechnol** 1997 Apr;66(1):25–30

An Aspergillus niger esterase (ferulic acid esterase III) and a recombinant Pseudomonas fluorescens subsp. cellulosa esterase (Xy1D) release a 5-5' ferulic dehydrodimer (diferulic acid) from barley and wheat cell walls. Bartolomé B, et al. **Appl Environ Microbiol** 1997 Jan;63(1):208–12

Secretion of two beta-fructofuranosidases by Aspergillus niger growing in sucrose. Wallis GL, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):214–22

Molecular cloning and heterologous expression of the isopullulanase gene from Aspergillus niger A.T.C.C. 9642. Aoki H, et al. **Biochem J** 1997 May 1;323 (Pt 3):757–64

A major bioactive component of plant cell walls, ferulic acid, influences feruloyl esterase production in Aspergillus niger. Faulds CB, et al. **Biochem Soc Trans** 1996 Aug;24(3):386S

Substrate binding mechanism of Glu180-->Gln, Asp176-->Asn, and wild-type glucoamylases from Aspergillus niger. Christensen U, et al. **Biochemistry** 1996 Nov 26;35(47):15009–18

Function of conserved tryptophans in the Aspergillus niger glucoamylase 1 starch binding domain. Williamson MP, et al. **Biochemistry** 1997 Jun 17;36(24):7535–9

Overexpression of phosphofructokinase and pyruvate kinase in citric acid-producing Aspergillus niger. Ruijter GJ, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):317–26

Subsite structure of the beta-glucosidase from Aspergillus niger, evaluated by steady-state kinetics with cello-oligosaccharides as substrates. Yazaki T, et al. **Carbohydr Res** 1997 Feb 20;298(1-2):51–7

Production of the homologous pectin lyase B protein in six genetically defined protease-deficient Aspergillus niger mutant strains. van den Hombergh JP, et al. **Curr Genet** 1997 Jul;32(1):73–81

Cloning and biochemical characterisation of an Aspergillus niger glucokinase. Evidence for the presence of separate glucokinase and hexokinase enzymes. Panneman H, et al. **Eur J Biochem** 1996 Sep 15;240(3):518–25

Disruption of three acid proteases in Aspergillus niger--effects on protease spectrum, intracellular proteolysis, and degradation of target proteins. van den Hombergh JP, et al. **Eur J Biochem** 1997 Jul 15; 247(2):605–13

beta-Xylosidase activity, encoded by xlnD, is essential for complete hydrolysis of xylan by Aspergillus niger but not for induction of the xylanolytic enzyme spectrum. van Peij NN, et al. **Eur J Biochem** 1997 Apr 1;245(1):164–73

Expression in a wine yeast strain of the Aspergillus niger abfB gene. Sánchez-Torres P, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):189–94

Purification and properties of two forms of glucoamylase from Aspergillus niger. Amirul AA, et al. **Folia Microbiol (Praha)** 1996;41(2):165–74

The stability of extracellular beta-glucosidase from Aspergillus niger is significantly enhanced by non-covalently attached polysaccharides. Rashid MH, et al. **Folia Microbiol (Praha)** 1996;41(4):341–6

Selective isolation of Aspergillus niger mutants with enhanced glucose oxidase production. Gromada A, et al. **J Appl Microbiol** 1997 May;82(5):648–52

Optimization of catalase biosynthesis in submerged cultures of Aspergillus niger mutant. Gromada A, et al. **J Basic Microbiol** 1997;37(2):85–91

Fine substrate specificities of four exo-type cellulases produced by Aspergillus niger, Trichoderma reesei, and Irpex lacteus on (1-->3), (1-->4)-beta-D-glucans and xyloglucan. Amano Y, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1123–9

The filamentous fungus Aspergillus niger contains two "differentially regulated" trehalose-6-phosphate synthase-encoding genes, tpsA and tpsB. Wolschek MF, et al. **J Biol Chem** 1997 Jan 31;272(5):2729–35

Comparison of kinetic properties between plant and fungal amine oxidases. Luhová L, et al. **J Enzyme Inhib** 1996; 10(4):251–262

Structure and energetics of the glucoamylase-isomaltose transition-state complex probed by using modeling and deoxygenated substrates coupled with site-directed mutagenesis. Frandsen TP, et al. **J Mol Biol** 1996 Oct 18; 263(1):79–89

Three-dimensional structure of Endo-1,4-beta-xylanase I from Aspergillus niger: molecular basis for its low pH optimum. Krengel U, et al. **J Mol Biol** 1996 Oct 18; 263(1):70–8

Fungal fermentation of whey incorporated with certain supplements for the production of proteases. Ashour SA, et al. **Microbios** 1996;86(346):59–69

Secretion of active recombinant phytase from soybean cell-suspension cultures. Li J, et al. **Plant Physiol** 1997 Jul; 114(3):1103–11

Glucoamylase mutants in the conserved active-site segment Trp170-Tyr175 located at a distance from the site of catalysis. Stoffer BB, et al. **Protein Eng** 1997 Jan;10(1):81–7

Overexpression and characterization of Aspergillus awamori wild-type and mutant glucoamylase secreted by the methylotrophic yeast Pichia pastoris: comparison with wild-type recombinant glucoamylase produced using Saccharomyces cerevisiae and Aspergillus niger as hosts. Fierobe HP, et al. **Protein Expr Purif** 1997 Mar;9(2):159–70

Two crystal structures of pectin lyase A from Aspergillus reveal a pH driven conformational change and striking divergence in the substrate-binding clefts of pectin and pectate lyases. Mayans O, et al. **Structure** 1997 May 15; 5(5):677–89

Solution structure of the granular starch binding domain of Aspergillus niger glucoamylase bound to beta-cyclodextrin. Sorimachi K, et al. **Structure** 1997 May 15;5(5):647–61

GENETICS

Cloning and characterization of two rhamnogalacturonan hydrolase genes from Aspergillus niger. Suykerbuyk ME, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2507–15

An attempt on using the method of R-Q double-factor analysis to identify and group fusants. Ai Y, et al. **Chin J Biotechnol** 1996;12(1):31–7

Cloning and function determination of promoter region of glucoamylase gene from Aspergillus niger T21. Tang G, et al. **Chin J Biotechnol** 1996;12(2):131–6

Integration of glucoamylase gene from Aspergillus niger into Saccharomyces cerevisiae genome and its stable expression. Tang G, et al. **Chin J Biotechnol** 1995;11(4):237–41

Arabinoxylan degradation by fungi: characterization of the arabinoxylan-arabinofuranohydrolase encoding genes from Aspergillus niger and Aspergillus tubingensis. Gielkens MM, et al. **Curr Genet** 1997 Jan;31(1):22–9

Isolation and characterisation of a gene encoding protein disulphide isomerase, pdiA, from Aspergillus niger. Ngiam C, et al. **Curr Genet** 1997 Feb;31(2):133–8

Isolation by genetic complementation of two differentially expressed genes for beta-isopropylmalate dehydrogenase from Aspergillus niger and Aspergillus tubingensis. Gielkens MM, et al. **Curr Genet** 1996 Sep;30(4):305–11

Cloning and biochemical characterisation of an Aspergillus niger glucokinase. Evidence for the presence of separate glucokinase and hexokinase enzymes. Panneman H, et al. **Eur J Biochem** 1996 Sep 15;240(3):518–25

Expression in a wine yeast strain of the Aspergillus niger abfB gene. Sánchez-Torres P, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):189–94

Isolation and characterisation of a novel stress-inducible PDI-family gene from Aspergillus niger. Jeenes DJ, et al. **Gene** 1997 Jul 9;193(2):151–6

The filamentous fungus Aspergillus niger contains two "differentially regulated" trehalose-6-phosphate synthase-encoding genes, tpsA and tpsB. Wolschek MF, et al. **J Biol Chem** 1997 Jan 31;272(5):2729–35

Characterization and overexpression of the Aspergillus niger gene encoding the cAMP-dependent protein kinase

catalytic subunit. Bencina M, et al. **Microbiology** 1997 Apr; 143 (Pt 4):1211–20

Recombination of mitochondrial DNAs following transmission of mitochondria among incompatible strains of black Aspergilli. Kevei F, et al. **Mol Gen Genet** 1997 Apr 28;254(4):379–88

The transposable element Tan1 of Aspergillus niger var. awamori, a new member of the Fot1 family. Nyyssönen E, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):50–6

The Aspergillus niger GCN4 homologue, cpcA, is transcriptionally regulated and encodes an unusual leucine zipper. Wanke C, et al. **Mol Microbiol** 1997 Jan;23(1):23–33

Overexpression and characterization of Aspergillus awamori wild-type and mutant glucoamylase secreted by the methylotrophic yeast Pichia pastoris: comparison with wild-type recombinant glucoamylase produced using Saccharomyces cerevisiae and Aspergillus niger as hosts. Fierobe HP, et al. **Protein Expr Purif** 1997 Mar;9(2):159–70

GROWTH & DEVELOPMENT

Analysis of the role of the Spitzenkörper in fungal morphogenesis by computer simulation of apical branching in Aspergillus niger. Reynaga-Peña CG, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9096–101

ISOLATION & PURIFICATION

Flourishing otomycosis. Pak MW, et al. **Ear Nose Throat J** 1997 Jan;76(1):10

Positive vitreous cultures from eyes without signs of infectious endophthalmitis. Mames RN, et al. **Ophthalmic Surg Lasers** 1997 May;28(5):365–9

METABOLISM

Production of gibberellic acid by Aspergillus niger using some food industry wastes. Cihangir N, et al. **Acta Microbiol Pol** 1996;45(3–4):291–7

Effect of the copper concentration on citric acid productivity by an Aspergillus niger strain. Benuzzi DA, et al. **Appl Biochem Biotechnol** 1996 Dec;61(3):393–7

A spontaneous change in the intracellular cyclic AMP level in Aspergillus niger is influenced by the sucrose concentration in the medium and by light. Gradišnik-Grapulin M, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2844–9

Novel metabolites in phenanthrene and pyrene transformation by Aspergillus niger. Sack U, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2906–9

Uptake and export of citric acid by Aspergillus niger is reciprocally regulated by manganese ions. Netik A, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):287–94

Isolation and properties of an ATP transporter from a strain of Aspergillus niger. Chowdhury B, et al. **Eur J Biochem** 1997 Jul 15;247(2):673–80

Enhancement and repression of cyanide-insensitive respiration in Aspergillus niger. Kirimura K, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):251–4

Optimization of catalase biosynthesis in submerged cultures of Aspergillus niger mutant. Gromada A, et al. **J Basic Microbiol** 1997;37(2):85–91

Glycerol is not an inhibitor of mitochondrial citrate oxidation by Aspergillus niger. Arisan-Atac I, et al. **Microbiology** 1996 Oct;142 (Pt 10):2937–42

Biodegradation of wool by Trichophyton simii and Aspergillus niger. Shrivastava JN, et al. **Mycoses** 1996 Nov-Dec;39(11–12):483–7

PHYSIOLOGY

Tailing of thermal inactivation curve of Aspergillus niger spores. Fujikawa H, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3745–9

Enhancement and repression of cyanide-insensitive respiration in Aspergillus niger. Kirimura K, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):251–4

ASPERGILLUS NUCLEASE S1

[Influenced factors of nuclease P1-enhanced 32 P-postlabeling method] Chang P, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 Mar; 30(2):111–3 (22 ref.) **(Chi)**

CHEMISTRY

Determination of the nucleotide conformation in the productive enzyme-substrate complexes of RNA-depolymerases. Moiseyev GP, et al. **FEBS Lett** 1997 Mar 10;404(2–3):169–72

METABOLISM

Y-box proteins interact with the S1 nuclease-sensitive site in the chicken alpha 2(I) collagen gene promoter. Bayarsaihan D, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):203–7

Selective hydrolysis of damaged DNA by nuclease P1. Falcone JM, et al. **Biochim Biophys Acta** 1997 Feb 8; 1337(2):267–75

Effect of modified nucleotides on structure of yeast tRNA(Phe). Comparative studies by metal ion-induced hydrolysis and nuclease mapping. Michałowski D, et al. **Biochimie** 1996;78(2):131–8

PCR mutagenesis: treatment of the megaprimer with mung bean nuclease improves yield. Chattopadhyay D, et al. **Biotechniques** 1997 Jun;22(6):1054–6

Simplified probe preparation facilitates S1 nuclease analysis. Noti JD, et al. **Biotechniques** 1996 Feb;20(2):174–8

DNA segments sensitive to single-strand-specific nucleases are present in chromatin of mitotic cells. Juan G, et al. **Exp Cell Res** 1996 Sep 15;227(2):197–202

The quantitative analysis of multiple mRNA species using oligonucleotide probes in an S1 nuclease protection assay. Tanay VA, et al. **Mol Biotechnol** 1997 Jun;7(3):217–29

Clusters of S1 nuclease-hypersensitive sites induced in vivo by DNA damage. Legault J, et al. **Mol Cell Biol** 1997 Sep; 17(9):5437–52

[Determination of segments of yeast artificial chromosomes, hypersensitive to nuclease S1, including a domain of human beta-globin genes] Svetlova EIu, et al. **Dokl Akad Nauk** 1997 Apr;353(4):562–4 **(Rus)**

[Mapping segments of the S1 nuclease hypersensitive sites in chromosome III of Saccharomyces cerevisiae] Svetlova EIu, et al. **Dokl Akad Nauk** 1997 Apr;353(6):831–3 **(Rus)**

ASPERGILLUS OCHRACEUS

CHEMISTRY

6-L-alanineferrirubin, a ferrichrome-type siderophore from the fungus Aspergillus ochraceus. Hossain MB, et al. **Acta Crystallogr C** 1997 Jun 15;53 (Pt 6):716–8

METABOLISM

Influence of white light, near-UV irradiation and other environmental conditions on production of aflatoxin B1 by Aspergillus flavus and ochratoxin A by Aspergillus ochraceus. Aziz NH, et al. **Nahrung** 1997 Jun;41(3):150–4

RADIATION EFFECTS

Influence of white light, near-UV irradiation and other environmental conditions on production of aflatoxin B1 by Aspergillus flavus and ochratoxin A by Aspergillus ochraceus. Aziz NH, et al. **Nahrung** 1997 Jun;41(3):150–4

ASPERGILLUS ORYZAE

ENZYMOLOGY

Structure of the Aspergillus oryzae alpha-amylase complexed with the inhibitor acarbose at 2.0 A resolution. Brzozowski AM, et al. **Biochemistry** 1997 Sep 9;36(36):10837–45

Heating inactivates the enzymatic activity and partially inactivates the allergenic activity of Asp o 2. Baur X, et al. **Clin Exp Allergy** 1996 Feb;26(2):232–4

Isolation and characterization of the nuclease O gene (nucO) from Aspergillus oryzae. Sano M, et al. **Curr Genet** 1996 Sep;30(4):312–7

Purification and characterization of an Aspergillus oryzae-produced carboxylesterase that catalyzes O-deacetylation of a fully acetylated O-glucoside of N-phenylacetohydroxamic acid. Yoshioka T, et al. **Eur J Biochem** 1997 Aug 15;248(1):58–62

Cloning and nucleotide sequence of the mono- and diacylglycerol lipase gene (mdlB) of Aspergillus oryzae. Tsuchiya A, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):63–7

Separation of enzymes from polyenzyme mixtures used in medicine and pharmacy. I. Isolation and characterization of xylanase from Aspergillus oryzae. Bakalova N, et al. **Pharmazie** 1996 Oct;51(10):761–4

New international F.I.P. method for the determination of the activity of Aspergillus oryzae proteases. Haussner K, et al. **Pharmazie** 1996 Dec;51(12):946–50

GENETICS

Characterization of the gene encoding an extracellular laccase of Myceliophthora thermophila and analysis of the recombinant enzyme expressed in Aspergillus oryzae. Berka RM, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3151–7

Efficient expression of a Phanerochaete chrysosporium manganese peroxidase gene in Aspergillus oryzae. Stewart P, et al. **Appl Environ Microbiol** 1996 Mar;62(3):860–4

Molecular cloning of a cDNA encoding enolase from the filamentous fungus, Aspergillus oryzae. Machida M, et al. **Curr Genet** 1996 Nov;30(5):423–31

Deletion analysis of promoter elements of the Aspergillus oryzae agdA gene encoding alpha-glucosidase. Minetoki T, et al. **Curr Genet** 1996 Nov;30(5):432–8

Cloning and nucleotide sequence of the mono- and diacylglycerol lipase gene (mdlB) of Aspergillus oryzae. Tsuchiya A, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):63–7

Cloning and sequencing of the gene encoding tannase and a structural study of the tannase subunit from Aspergillus oryzae [published erratum appears in Gene 1997 Feb 20;186(1):153] Hatamoto O, et al. **Gene** 1996 Oct 10; 175(1–2):215–21

PHYSIOLOGY

Influence of tallow and Aspergillus oryzae fermentation extract in dairy cattle rations. Bertrand JA, et al. **J Dairy Sci** 1997 Jun;80(6):1179–84

ASPHYXIA

COMPLICATIONS

A randomized, blinded trial of high-dose epinephrine versus standard-dose epinephrine in a swine model of pediatric asphyxial cardiac arrest. Berg RA, et al. **Crit Care Med** 1996 Oct;24(10):1695–700

Fracture of the hyoid bone in strangulation: comparison of fractured and unfractured hyoids from victims of strangulation. Pollanen MS, et al. **J Forensic Sci** 1996 Jan; 41(1):110–3

Petechial hemorrhage of the conjunctiva and histological findings of the lung and pancreas in infantile asphyxia--evaluation of 85 cases. Matsumura F, et al. **Kurume Med J** 1996;43(4):259–66

Are bedding and rebreathing suffocation a cause of SIDS? Guntheroth WG, et al. **Pediatr Pulmonol** 1996 Dec; 22(6):335–41 (68 ref.)

Ventricular fibrillation in a swine model of acute pediatric asphyxial cardiac arrest. Berg RA, et al. **Resuscitation** 1996 Dec;33(2):147–53

Anesthetic regimen effects on a pediatric porcine model of asphyxial arrest. Jasani MS, et al. **Resuscitation** 1997 Aug; 35(1):69–75

Asphyxiation versus ventricular fibrillation cardiac arrest in dogs. Differences in cerebral resuscitation effects--a preliminary study. Vaagenes P, et al. **Resuscitation** 1997 Aug;35(1):41–52

[Coma caused by traumatic asphyxia: a severe neurological manifestation of Perthes syndrome] Ben Miled M, et al. **Cah Anesthesiol** 1996;44(3):229–30 **(Fre)**

CONGENITAL see ASPHYXIA NEONATORUM

DIAGNOSIS

DNA typing of epithelial cells after strangulation. Wiegand P, et al. **Int J Legal Med** 1997;110(4):181–3

DRUG THERAPY

Magnesium sulfate therapy during asphyxia in near-term fetal lambs does not compromise the fetus but does not reduce cerebral injury. de Haan HH, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):18–27

ETIOLOGY

Deaths of infants on polystyrene-filled beanbags. Gilbert-Barness E, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):202–6

Difficult airway management in a patient with traumatic asphyxia. Ibarra P, et al. **Anesth Analg** 1997 Jul;85(1):216–8

Suspended rocking cradles, positional asphyxia, and sudden infant death. Ackerman J, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):573–5

Fatal asphyxiations in children involving drawstrings on clothing [see comments] Petruk J, et al. **Can Med Assoc J** 1996 Nov 15;155(10):1417–9. Comment in: Can Med Assoc J 1996 Nov 15;155(10):1429–31.

Mesh-sided cots--yet another potentially dangerous infant sleeping environment. Byard RW, et al. **Forensic Sci Int** 1996 Dec 2;83(2):105–9

Accidental strangulation in a rickshaw [see comments] Kohli A, et al. **Forensic Sci Int** 1996 Mar 5;78(1):7–11. Comment in: Forensic Sci Int 1996 Sep 30;82(2):191–2.

Sudden, persistent facial discoloration after chest trauma. Fred HL, et al. **Hosp Pract (Off Ed)** 1996 Sep 15; 31(9):100–2

Traumatic asphyxia: an indicator of potentially severe injury in trauma. Dunne JR, et al. **Injury** 1996 Dec;27(10):746–9 (29 ref.)

Traumatic asphyxia in children. Campbell-Hewson G, et al. **J Accid Emerg Med** 1997 Jan;14(1):47–9

Traumatic asphyxia in children. Sarihan H, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):93–5

Diethyl ether, a chemical asphyxiant used as a prelude to homicide: a report of three cases. Ward ME, et al. **J Forensic Sci** 1997 Mar;42(2):344–8

V-shaped pillows and unsafe infant sleeping. Byard RW, et al. **J Paediatr Child Health** 1997 Apr;33(2):171–3

Comparison of two methods of determining asphyxial potential of infant bedding. Campbell AJ, et al. **J Pediatr** 1997 Feb;130(2):245–9

Asphyxial death of a young skier. Shephard RJ. **J Sports Med Phys Fitness** 1996 Sep;36(3):223–7

Pediatric window-cord strangulations [letter] Bishai DM. **JAMA** 1997 Oct 8;278(14):1152

Pediatric window-cord strangulations in the United States, 1981–1995. Rauchschwalbe R, et al. **JAMA** 1997 Jun 4; 277(21):1696–8

Suffocations in grain bins--Minnesota, 1992–1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 4;45(39):837–41

Automatic garage door openers: hazard for children. Kriel RL, et al. **Pediatrics** 1996 Oct;98(4 Pt 1):770–3

Traumatic asphyxia syndrome. Nunn CR, et al. **Tenn Med** 1997 Apr;90(4):144–6 (19 ref.)

[Differential diagnosis of circulatory failure in hypothermic avalanche victims: retrospective analysis of 32 avalanche accidents] Locher T, et al. **Schweiz Rundsch Med Prax** 1996 Oct 8;85(41):1275–82 (Eng. Abstr.) **(Ger)**

ASPHYXIA

METABOLISM

Plasma and cerebrospinal fluid hyperinsulinism in asphyxiated piglets. Abrahám CS, et al. **Biol Neonate** 1996;70(5):296–303

Effects of perinatal asphyxia on the mesostriatal/mesolimbic dopamine system of neonatal and 4-week-old male rats. Ungethüm U, et al. **Exp Brain Res** 1996 Dec;112(3):403–10

MORTALITY

Risk factors of sudden infant death in Chinese babies. Knöbel HH, et al. **Am J Epidemiol** 1996 Dec 1;144(11):1070–3

Asphyxial suicides using plastic bags. Haddix TL, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):308–11

Hanging and poisoning autopsies in Fiji. Pridmore S, et al. **Aust N Z J Psychiatry** 1996 Oct;30(5):685–7

[Discrepancies in homicide statistics by suffocation] Heinemann A, et al. **Arch Kriminol** 1996 May–Jun; 197(5–6):129–41 (Eng. Abstr.) **(Ger)**

PATHOLOGY

The quantitative alteration of the DNA content in strangulation marks is an artefact. Grellner W, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):15–20

Macrophage subtype patterns in protracted asphyxiation. Du Chesne A, et al. **Int J Legal Med** 1996;109(4):163–6

Delayed death after attempted suicide by hanging. Hausmann R, et al. **Int J Legal Med** 1997;110(3):164–6

Intra-alveolar pulmonary siderophages in sudden infant death: a marker for previous imposed suffocation. Becroft DM, et al. **Pathology** 1997 Feb;29(1):60–3 (19 ref.)

The pathology of hanging deaths in Western Australia. Samarasekera A, et al. **Pathology** 1996 Nov;28(4):334–8

Neurological features of perinatal asphyxia: a clinical and pathological study of a neonate with multicystic encephalopathy. Butefisch C, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):236–42

[Death caused by Perthes pressure congestion] Grellner W, et al. **Arch Kriminol** 1996 Nov–Dec;198(5–6):167–75 (Eng. Abstr.) **(Ger)**

[An extended case of autoerotic accident] Schumann M, et al. **Arch Kriminol** 1997 Jan–Feb;199(1–2):27–31 (Eng. Abstr.) **(Ger)**

[Putrefaction-induced green discoloration of cadaver skin with circumscribed sparing of areas in contact with tape strips in suicidal asphyxia] Yamamoto K, et al. **Arch Kriminol** 1996 Nov–Dec;198(5–6):139–44 (Eng. Abstr.) **(Ger)**

[The forensic medical possibilities for reconstructing the circumstances of a hanging] Molin IuA. **Sud Med Ekspert** 1996 Jul–Sep;39(3):46–8 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Bilirubinemia in asphyxiated term infants. A clinical observation. Harrison H Jr, et al. **Alaska Med** 1996 Jul–Sep; 38(3):98–100

Fetal heart rate changes do not reflect cardiovascular deterioration during brief repeated umbilical cord occlusions in near-term fetal lambs. de Haan HH, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):8–17

Testing the suffocation false alarm theory of panic disorder [see comments] Klein DF. **Anxiety** 1994;1(1):1–7 (38 ref.) . Comment in: Anxiety 1994–95;1(3):144–8.

Klein's suffocation false alarm theory: another perspective [letter; comment] Panzarella C. **Anxiety** 1994–95;1(3):144–8 . Comment on: Anxiety 1994;1(1):1–7.

Cerebral blood flow regulation in neonatal rabbits is altered by chronic cocaine administration. Feuer P, et al. **Brain Res** 1997 Apr 25;755(1):142–5

Sequential arousal and airway-defensive behavior of infants in asphyxial sleep environments. Lijowska AS, et al. **J Appl Physiol** 1997 Jul;83(1):219–28

Use of the Morris water maze and acoustic startle chamber to evaluate neurologic injury after asphyxial arrest in rats. Hickey RW, et al. **Pediatr Res** 1996 Jan;39(1):77–84

Acidaemia enhances the inhibitory effect of hypoxia on fetal lung liquid secretion in sheep. Wallace MJ, et al. **Reprod Fertil Dev** 1996;8(3):327–33

PSYCHOLOGY

Anxiety symptoms in panic disorder and social phobia: support for suffocation theory of panic? Hazen AL, et al. **Anxiety** 1996;2(2):102–5

The Ondine curse, false suffocation alarms, trait-state suffocation fear, and dyspnea-suffocation fear in panic attacks [letter; comment] Ley R. **Arch Gen Psychiatry** 1997 Jul;54(7):677–8. Comment on: Arch Gen Psychiatry 1996 Jan;53(1):83–5.

Anxiety sensitivity, suffocation fear, trait anxiety, and breath-holding duration as predictors of response to carbon dioxide challenge. Eke M, et al. **Behav Res Ther** 1996 Aug; 34(8):603–7

Voluntary breath holding: not a suitable probe of the suffocation alarm in panic disorder. Willem Van der Does AJ. **Behav Res Ther** 1997 Aug;35(8):779–84

THERAPY

Difficult airway management in a patient with traumatic asphyxia. Ibarra P, et al. **Anesth Analg** 1997 Jul;85(1):216–8

Assessment of mouth-to-mask ventilation in resuscitation of asphyxic newborn babies. A pilot study. Massawe A, et al. **Trop Med Int Health** 1996 Dec;1(6):865–73

[Avalanche emergency. New aspects of the pathophysiology and therapy of buried avalanche victims] Brugger H, et al. **Wien Klin Wochenschr** 1997 Mar 14;109(5):145–59 (114 ref.) (Eng. Abstr.) **(Ger)**

[The treatment of posthypoxic encephalopathy in suicide patients by hyperbaric oxygenation] Kharchenko EN. **Lik Sprava** 1995 Mar–Apr;(3–4):165–7 (Eng. Abstr.) **(Rus)**

[Traumatic asphyxia and continuous venovenous hemofiltration. Report of a case] Casas ML, et al. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):30–2 (Eng. Abstr.) **(Spa)**

ASPHYXIA NEONATORUM

Prenatal diagnosis of asphyxiating thoracic dysplasia (Jeune syndrome). Chen CP, et al. **Am J Perinatol** 1996 Nov; 13(8):495–8

Ethical decision making in perinatal asphyxia. Sexson WR, et al. **Clin Perinatol** 1996 Sep;23(3):509–18 (9 ref.)

Fetal/neonatal neurologic injury and "ACOG Technical Bulletin 163": a light at the end of the tunnel [editorial] Morrison JC. **J Perinatol** 1996 Nov–Dec;16(6):421

Clinicopathological correlations in postasphyxial organ damage: a donor organ perspective. Barnett CP, et al. **Pediatrics** 1997 Jun;99(6):797–9

Intrapartum hypoxic-ischemic cerebral injury and subsequent cerebral palsy: medicolegal issues. Perlman JM. **Pediatrics** 1997 Jun;99(6):851–9 (107 ref.)

BLOOD

Plasma thrombomodulin level in newborn infants with and without perinatal asphyxia. Nako Y, et al. **Acta Paediatr** 1997 Jan;86(1):91–5

Transient elevation of aldosterone levels in perinatal asphyxia. Pereira DN, et al. **Acta Paediatr** 1997 Aug; 86(8):851–3

Plasma somatostatin and cholecystokinin levels in sick preterm infants during their first six weeks of life. Törnhage CJ, et al. **Acta Paediatr** 1997 Aug;86(8):847–50

Red blood cell magnesium and hypoxic-ischaemic encephalopathy. Harrison V, et al. **Early Hum Dev** 1997 Feb 20;47(3):287–96

Growth hormone in birth asphyxia. Kapoor RK, et al. **Indian Pediatr** 1997 Feb;34(2):133–5

CEREBROSPINAL FLUID

Cerebrospinal fluid of newborn infants contains a deglycosylated form of the intermediate filament nestin. Grigelioniené G, et al. **Pediatr Res** 1996 Dec;40(6):809–14

CHEMICALLY INDUCED

[Determination of diazepam concentration in maternal and fetal serum after intravenous administration during active phase of labor and its effects on neonates] Pan B, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Dec;30(12):707–10 (Eng. Abstr.) **(Chi)**

CLASSIFICATION

The value of a scoring system for hypoxic ischaemic encephalopathy in predicting neurodevelopmental outcome. Thompson CM, et al. **Acta Paediatr** 1997 Jul; 86(7):757–61

Intrapartum fetal asphyxia: definition, diagnosis, and classification. Low JA. **Am J Obstet Gynecol** 1997 May; 176(5):957–9 (17 ref.)

COMPLICATIONS

Use of brain lactate levels to predict outcome after perinatal asphyxia. Leth H, et al. **Acta Paediatr** 1996 Jul;85(7):859–64

Cholestasis in newborn infants with perinatal asphyxia. Vajro P, et al. **Acta Paediatr** 1997 Aug;86(8):895–8

"Abruption" and assumption [letter; comment] Perkins RP. **Am J Obstet Gynecol** 1997 May;176(5):1119–20. Comment on: Am J Obstet Gynecol 1996 Nov;175(5):1383–5.

Neonatal complications in newborns with an umbilical artery pH < 7.00. van den Berg PP, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1152–7

Prediction of outcome after perinatal asphyxia. Patel J, et al. **Curr Opin Pediatr** 1997 Apr;9(2):128–32 (44 ref.)

Primary sensory and forebrain motor systems in the newborn brain are preferentially damaged by hypoxia-ischemia. Martin LJ, et al. **J Comp Neurol** 1997 Jan 13;377(2):262–85

Analysis of the risk of brain damage in asphyxiated infants. Lin Y, et al. **J Perinat Med** 1996;24(6):581–9

The possible role of uric acid in renal hyper-echogenicity in neonatal hypoxic acute shock. Tálosi G, et al. **J Perinat Med** 1996;24(6):693–7

Reperfusion injury as the mechanism of brain damage after perinatal asphyxia. Fellman V, et al. **Pediatr Res** 1997 May; 41(5):599–606 (138 ref.)

Nonprotein-bound iron in postasphyxial reperfusion injury of the newborn. Dorrepaal CA, et al. **Pediatrics** 1996 Nov; 98(5):883–9

Perinatal asphyxia, hypoxia, ischemia and hearing loss. An overview. Borg E. **Scand Audiol** 1997;26(2):77–91 (53 ref.)

[Etiology of cerebral palsy] Jaisle F. **Z Geburtshilfe Neonatol** 1996 Sep–Oct;200(5):169–75 (83 ref.) (Eng. Abstr.) **(Ger)**

[Hypoxic-ischemic brain damage in the newborn (editorial)] Zanardo V, et al. **Pediatr Med Chir** 1997 Jan–Feb;19(1):1–2 (Eng. Abstr.) **(Ita)**

[Delayed-onset dystonia due to asphyxia in the perinatal period] Kostić VS, et al. **Srp Arh Celok Lek** 1997 Mar–Apr; 125(3–4):84–8 (Eng. Abstr.) **(Scc)**

[Asphyxia and intracranial hemorrhage in high-risk neonates of various gestational ages] Konstantinidis G, et al. **Med Pregl** 1997 Jan–Feb;50(1–2):33–6 (Eng. Abstr.) **(Scr)**

[Perinatal differences in asphyxic full-term newborns in relation to the presence of hypoxic-ischemic encephalopathy] González de Dios J, et al. **Rev Neurol** 1997 Aug;25(144):1187–94 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Magnetic resonance imaging in children with neonatal asphyxia: correlation with developmental sequelae. Yokochi K, et al. **Acta Paediatr** 1996 Jan;85(1):88–95

Intrapartum fetal asphyxia: definition, diagnosis, and classification. Low JA. **Am J Obstet Gynecol** 1997 May; 176(5):957–9 (17 ref.)

Influence of neonatal idiopathic respiratory distress syndrome on serum enzyme activities in premature healthy and asphyxiated newborns. Lackmann GM. **Am J Perinatol** 1996 Aug;13(6):329–34

Middle cerebral artery velocimetry as a predictor of hypoxemia in fetuses with increased resistance to blood flow in the umbilical artery. Dubiel M, et al. **Early Hum Dev** 1997 Jan 20;47(2):177–84

Brainstem auditory evoked response in neonates with birth asphyxia. Misra PK, et al. **Indian Pediatr** 1997 Mar; 34(3):199–205

ACOG committee opinion. Use and abuse of the Apgar score. Number 174–July 1996 (replaces No. 49, November 1986). Committee on Obstetric Practice and American Academy of Pediatrics: Committee on Fetus and Newborn. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1996 Sep;54(3):303–5

Simplified assessment of asphyxia at birth. Ghosh D, et al. **J Trop Pediatr** 1997 Apr;43(2):108–11

Metabolite concentrations and relaxation in perinatal cerebral hypoxic-ischemic injury. Cady EB. **Neurochem Res** 1996 Sep;21(9):1043–52

Activity alterations of chosen parameters of cord blood hemostasis in newborns from complicated pregnancies with premature ablation of placenta. Bielecki M, et al. **Rocz Akad Med Bialymst** 1996;41(2):374–80

[Ohtahara syndrome] Romann D, et al. **Geburtshilfe Frauenheilkd** 1996 Jul;56(7):393–5 (Eng. Abstr.) **(Ger)**

[Magnetic resonance tomography studies of the hypophysis in children with growth hormone deficiency, born with umbilical cord entanglement] Butenandt O, et al. **Klin Padiatr** 1996 Jan–Feb;208(1):26–8 (Eng. Abstr.) **(Ger)**

[Fetal heart rate and acidosis] Butterwegge M, et al. **Z Geburtshilfe Neonatol** 1997 Jan–Feb;201(1):30–3 **(Ger)**

[Heart rate accelerations in the fetus during fetal blood sampling sub partu] Tzanov G, et al. **Z Geburtshilfe Neonatol** 1997 Jan–Feb;201(1):6–10 (Eng. Abstr.) **(Ger)**

[Obligatory monitoring methods during delivery] Wolff F. **Z Geburtshilfe Neonatol** 1997 Jan–Feb;201(1):1–5 (22 ref.) (Eng. Abstr.) **(Ger)**

[Pre-pathologic-pathologic cardiotocographic pattern in second stage of labor. Analysis of the incidence of acidosis and recommendations for fetal blood gas analysis] Schlotter CM. **Zentralbl Gynakol** 1997;119(3):117–22 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Prevention of postasphyxia electroretinal dysfunction with a pyridoxal hydrazone. Bhattacharya M, et al. **Free Radic Biol Med** 1997;22(1–2):11–6

ENZYMOLOGY

Decrease of heart protein kinase C and cyclin-dependent kinase precedes death in perinatal asphyxia of the rat. Lubec B, et al. **FASEB J** 1997 May;11(6):482–92

Long term changes in NADPH-diaphorase reactivity in striatal and cortical neurons following experimental perinatal asphyxia: neuroprotective effects of hypothermia. Fabián Loidl C, et al. **Int J Neurosci** 1997 Jan;89(1–2):1–14

Decrease of brain protein kinase C, protein kinase A, and cyclin-dependent kinase correlating with pH precedes neuronal death in neonatal asphyxia. Lubec B, et al. **J Investig Med** 1997 Jun;45(5):284–94

Perinatal asphyxia-induced changes in rat brain tyrosine hydroxylase-immunoreactive cell body number: effects of nicotine treatment. Chen Y, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):77–80

EPIDEMIOLOGY

Obstetric interventions and perinatal asphyxia in growth retarded term infants. Langhoff-Roos J, et al. **Acta Obstet Gynecol Scand Suppl** 1997;165:39–43

Changes in risk factors for hypoxic-ischaemic seizures in term infants. Gunn AJ, et al.

Aust N Z J Obstet Gynaecol 1997 Feb;37(1):36–9

ETIOLOGY

The problem of relating fetal outcome with breech presentation to mode of delivery. Koike T, et al. **Arch Gynecol Obstet** 1996;258(3):119–23

Maternal factors contributing to asphyxia neonatorum. Hall DR, et al. **J Trop Pediatr** 1996 Aug;42(4):192–5

[Perinatally-induced hypoxic-ischemic encephalopathy? Possibilities of retrospective evaluation from the neuropediatric viewpoint] Niemann G, et al. **Z Geburtshilfe Neonatol** 1996 Sep–Oct;200(5):202–5 (31 ref.) (Eng. Abstr.) **(Ger)**

METABOLISM

Perinatal asphyxia induces long-term changes in dopamine D1, D2, and D3 receptor binding in the rat brain. Chen Y, et al. **Exp Neurol** 1997 Jul;146(1):74–80

Striatal cytomegalic neurons containing nitric oxide are associated with experimental perinatal asphyxia: implication of cold treatment. Loidl CF, et al. **Medicina (B Aires)** 1996;56(2):169–72

Metabolite concentrations and relaxation in perinatal cerebral hypoxic-ischemic injury. Cady EB. **Neurochem Res** 1996 Sep;21(9):1043–52

Development of GABA and calcium binding proteins immunoreactivity in the rat hippocampus following neonatal anoxia. Dell'Anna E, et al. **Neurosci Lett** 1996 Jun 21;211(2):93–6

Increased levels of lipid peroxidation products malondialdehyde and 4-hydroxynonenal after perinatal hypoxia. Schmidt H, et al. **Pediatr Res** 1996 Jul;40(1):15–20

MORTALITY

Perinatal asphyxia: multivariate analysis of risk factors in hospital births. Chandra S, et al. **Indian Pediatr** 1997 Mar; 34(3):206–12

Correlates of mortality among hospital-born neonates with birth asphyxia [see comments] Paul VK, et al. **Natl Med J India** 1997 Mar–Apr;10(2):54–7. Comment in: Natl Med J India 1997 Mar–Apr;10(2):51–2.

PATHOLOGY

Delayed neuronal death following perinatal asphyxia in rat. Dell'Anna E, et al. **Exp Brain Res** 1997 Jun;115(1):105–15

Proton magnetic resonance spectroscopy of the brain in normal preterm and term infants, and early changes after perinatal hypoxia-ischemia. Penrice J, et al. **Pediatr Res** 1996 Jul;40(1):6–14

[A clinical-pathological study on hypoxic ischemic encephalopathy in 124 cases of perinates] Zhang L, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Feb;31(2):100–2 (Eng. Abstr.) **(Chi)**

PHYSIOPATHOLOGY

Animal models for the study of perinatal hypoxic-ischemic encephalopathy: a critical analysis. Roohey T, et al. **Early Hum Dev** 1997 Jan 20;47(2):115–46

Effects of acute total and prolonged partial asphyxia on the central nervous system of the foetal neonatal and juvenile rhesus monkey: a review. Brann AW. **Equine Vet J Suppl** 1988 Sep;(5):25–7 (17 ref.)

A model for detecting early metabolic changes in neonatal asphyxia by 1H-MRS. Nakai T, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):445–52

Diagnostic and prognostic value of cerebral 31P magnetic resonance spectroscopy in neonates with perinatal asphyxia. Martin E, et al. **Pediatr Res** 1996 Nov; 40(5):749–58

Changes in cerebral cyclic nucleotides and cerebral blood flow during prolonged asphyxia and recovery in newborn pigs. Pourcyrous M, et al. **Pediatr Res** 1997 May; 41(5):617–23

Development of heart inter-beat interval variability in preweanling rats: effects of exposure to alcohol and hypoxia. Kelly SJ, et al. **Physiol Behav** 1997 Feb; 61(2):231–41

[Electrophysiological studies in the follow-up of children with perinatal asphyxia history] González de Dios J, et al. **An Esp Pediatr** 1997 Jun;46(6):597–602 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

[Critique of the quality of clinical studies of intensive fetal monitoring sub partu and subsequent conclusions. Final comment on the article by H. Schneider: "Intensive fetal monitoring sub partu or the quality of clinical research" (letter; comment)] Saling E. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):M126–9. Comment on: Geburtshilfe Frauenheilkd 1996 Aug;56(8):397–400. **(Ger)**

[Intensive fetal monitoring sub partu or the quality of clinical research (see comments)] Schneider H. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):397–400 (7 ref.) (Eng. Abstr.). Comment in: Geburtshilfe Frauenheilkd 1996 Aug;56(8):M126–9. **(Ger)**

[Fetal pulse oximetry sub partu: on morbidity of infection and acceptance in intrapartum monitoring] Butterwegge M, et al. **Z Geburtshilfe Neonatol** 1996 Nov–Dec; 200(6):221–6 (Eng. Abstr.) **(Ger)**

[Satellite symposium "Fetal Pulse Oximetry Sub Partu" of the North German Society of Gynecology and Obstetrics in Göttingen 29 September 1995] Butterwegge M. **Zentralbl Gynakol** 1996;118(3):174–5 **(Ger)**

PSYCHOLOGY

Neuropsychological consequences of very low birth weight and asphyxia at term: follow-up until school-age. Korkman M, et al. **J Clin Exp Neuropsychol** 1996 Apr;18(2):220–33

THERAPY

Use of albumin in neonatal resuscitation. Roberton NR. **Eur J Pediatr** 1997 Jun;156(6):428–31 (38 ref.)

Resuscitation of asphyxiated newborn [letter; comment] Mamman KC. **Indian Pediatr** 1996 Oct;33(10):870–1. Comment on: Indian Pediatr 1996 Apr;33(4):326–9.

Changing profile of birth asphyxia [see comments] Mane AV, et al. **Indian Pediatr** 1996 Apr;33(4):326–9. Comment in: Indian Pediatr 1996 Oct;33(10):870–1.

Failure to breathe at birth [editorial; comment] Harvey D. **Natl Med J India** 1997 Mar–Apr;10(2):51–2. Comment on: Natl Med J India 1997 Mar–Apr;10(2):54–7.

Urinary excretion of human epidermal growth factor in premature infants requiring assisted ventilation over the first week of life [letter] Plebani M, et al. **Nephron** 1997; 76(2):225–6

[Reversal of a right-left shunt and permanent improvement of oxygenation by inhalation of nitrogen monoxide in a premature infant with lung hypoplasia and asphyxia] Hoehn T, et al. **Z Geburtshilfe Neonatol** 1997 May–Jun; 201(3):105–7 (Eng. Abstr.) **(Ger)**

[Management of respiratory failure in the neonate] Domagalska A, et al. **Pol Merkuriusz Lek** 1996 Jul; 1(1):60–2 (19 ref.) (Eng. Abstr.) **(Pol)**

[Effects of hyperbaric oxygenation on free radical oxidation and antioxidant system of blood in the newborn who had acute hypoxia at birth] Baĭborodov BD, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):56–8 (Eng. Abstr.) **(Rus)**

[High-frequency jet ventilation of the lungs in intensive care of the newborn born with asphyxia] Kuz'min VV, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):24–7 **(Rus)**

ULTRASONOGRAPHY

Quantitative sonographic feature analysis of clinical infant hypoxia: a pilot study. Barr LL, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1025–31

Anterior cerebral artery Doppler ultrasonography for prediction of outcome after perinatal asphyxia. Liao HT, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 May–Jun;38(3):208–12

URINE

Indices of renal tubular function in perinatal asphyxia. Willis F, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul; 77(1):F57–60

Effects of hypoxia on urinary organic acid and hypoxanthine excretion in fetal sheep. Walker V, et al. **Pediatr Res** 1996 Aug;40(2):309–18

VETERINARY

Effects of the level of asphyxia during delivery on viability at birth and early postnatal vitality of newborn pigs. Herpin P, et al. **J Anim Sci** 1996 Sep;74(9):2067–75

ASPICULARIASIS see **OXYURIASIS**

ASPIDIUM see **PLANTS, MEDICINAL**

ASPIRATION

Exposures to inhalable and "total" oil mist aerosol by metal machining shop workers. Wilsey PW, et al. **Am Ind Hyg Assoc J** 1996 Dec;57(12):1149–53

Cocaine balloon aspiration: successful removal with bronchoscopy. Cobaugh DJ, et al. **Am J Emerg Med** 1997 Sep;15(5):544–6

Indications for flexible versus rigid bronchoscopy in children with suspected foreign-body aspiration. Martinot A, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1676–9

Role of flexible laryngoscopy in evaluating aspiration. Kaye GM, et al. **Ann Otol Rhinol Laryngol** 1997 Aug; 106(8):705–9

Importance of diffuse aspiration bronchiolitis caused by chronic occult aspiration in the elderly. Matsuse T, et al. **Chest** 1996 Nov;110(5):1289–93

Aeroallergen contact dermatitis. Taïeb A, et al. **Clin Rev Allergy Immunol** 1996 Summer;14(2):209–23 (64 ref.)

Impact of community educational programmes on foreign body aspiration in Israel [letter; comment] Hussein A. **Eur J Pediatr** 1996 Jun;155(6):523. Comment on: Eur J Pediatr 1995 Oct;154(10):859–62.

Inhalant use patterns among Eskimo school children in western Alaska. Zebrowski PL, et al. **J Addict Dis** 1996; 15(3):67–77

A comparison of drug delivery from a metered-dose inhaler plus an inspiratory flow control device with a metered-dose inhaler plus a spacer device. Kanner RE, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):853–4

Bronchial foreign bodies in adults. Lai YF, et al. **J Formos Med Assoc** 1996 Mar;95(3):213–7

Bronchial necrosis induced by inhalation of an iron tablet. Babatasi G, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1397–9

Management of pediatric aspirated foreign bodies. Deskin R, et al. **Laryngoscope** 1997 Apr;107(4):540–3

Massive bronchoalveolar aspiration of barium sulfate during a radiologic study of the upper digestive tract [letter] López-Castilla JD, et al. **Pediatr Pulmonol** 1997 Aug; 24(2):126–7

Bronchoesophageal fistula secondary to aspiration of tongue adhesion button in a child with glossoptosis. Zunzunegui J, et al. **Pediatr Pulmonol** 1997 Feb;23(2):120–2

The sniff-like aspiration reflex evoked by electrical stimulation of the nasopharynx. Benacka R, et al. **Respir Physiol** 1995 Dec;102(2–3):163–74

[Scintigraphic evidence of silent aspiration after bilateral lung transplantation] Tönshoff G, et al. **Nuklearmedizin** 1996 Aug;35(4):140–2 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

Bronchodilatation and the inspiratory flow volume curve. Reddy R, et al. **Chest** 1996 Nov;110(5):1226–8

Nicotine regulates smoking patterns. Djordjevic MV, et al. **Prev Med** 1997 Jul–Aug;26(4):435–40

PHYSIOLOGY

Quantitative aspiration during sleep in normal subjects. Gleeson K, et al. **Chest** 1997 May;111(5):1266–72

Aspiration following stroke: is it related to the side of the stroke? Smithard DG, et al. **Clin Rehabil** 1997 Feb; 11(1):73–6

Patient-ventilator interaction and inspiratory effort during pressure support ventilation in patients with different pathologies. Nava S, et al. **Eur Respir J** 1997 Jan; 10(1):177–83

Effects of lung volume and thoracic gas compression on maximal and partial flow-volume curves. Pellegrino R, et al. **Eur Respir J** 1996 Oct;9(10):2168–73

The impact of inspiratory effort on inspiratory flow through Turbuhaler in asthmatic patients. Persson G, et al. **Eur Respir J** 1997 Mar;10(3):681–4

Effect of pattern of preceding inspiration on FEV1 in asthmatic children. Sette L, et al. **Eur Respir J** 1996 Sep; 9(9):1902–6

Sniff nasal inspiratory pressure in patients with chronic obstructive pulmonary disease. Uldry C, et al. **Eur Respir J** 1997 Jun;10(6):1292–6

Quantitative evaluation of sympathetic nervous system dysfunction in patients with reflex sympathetic dystrophy. Ide J, et al. **J Hand Surg [Br]** 1997 Feb;22(1):102–6

The effects of breathing He-O2 mixtures on maximal oxygen consumption in normoxic and hypoxic men. Esposito F, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):215–22

Activities of expiratory neurones of the Bötzinger complex during vocalization in decerebrate cats. Sakamoto T, et al. **Neuroreport** 1996 Oct 2;7(14):2353–6

Inspiratory work of breathing in ventilated preterm infants. Lorino H, et al. **Pediatr Pulmonol** 1996 May;21(5):323–7

Management of upper gastrointestinal tract dysfunction. Nowak TV. **Semin Neurol** 1996 Sep;16(3):281–8 (44 ref.)

ASPIRATION BIOPSY see **BIOPSY, NEEDLE**

ASPIRATION LIPECTOMY see **LIPECTOMY**

ASPIRATION, MECHANICAL see **SUCTION**

ASPIRATION, MECONIUM see **MECONIUM ASPIRATION**

ASPIRATION OF GASTRIC CONTENTS see **PNEUMONIA, ASPIRATION**

ASPIRATION PNEUMONIA see **PNEUMONIA, ASPIRATION**

ASPIRATIONS (PSYCHOLOGY)

The development and validation of the Children's Hope Scale. Snyder CR, et al. **J Pediatr Psychol** 1997 Jun; 22(3):399–421

Biomedical research in an era of unlimited aspirations and limited resources. Fauci AS. **Lancet** 1996 Oct 12; 348(9033):1002–3

Heros and memories [editorial] Thomas JR. **Mo Med** 1996 Apr;93(4):150–1

Intelligence, personality, and interests: evidence for overlapping traits. Ackerman PL, et al. **Psychol Bull** 1997 Mar;121(2):219–45 (210 ref.)

Personality and educational choice of general versus vocational studies among 16- to 19-year-olds. Halvari H. **Psychol Rep** 1996 Jun;78(3 Pt 2):1379–88

Occupational aspirations of black South African adolescents. Watson MB, et al. **Psychol Rep** 1997 Apr;80(2):627–35

[Life change event--life history--life plant: psychopathologic and forensic aspects] Janzarik W. **Nervenarzt** 1996 Jul;67(7):545–51 (15 ref.) (Eng. Abstr.) **(Ger)**

ASPIRIN

Aspirin: tiger or pussy cat? Zinn WJ. **Ear Nose Throat J** 1996 Apr;75(4):200–7 (34 ref.)

Risk factors between analgesic use and chronic nephropathy in Thailand. Kantachuvesiri S, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):350–5

[Aspirin. A wonder drug? (editorial)] Diez-Ewald M. **Invest Clin** 1997 Jun;38(2):59–61 **(Spa)**

ADMINISTRATION & DOSAGE

Topically applied aspirin rapidly decreases histamine-induced itch. Yosipovitch G, et al. **Acta Derm Venereol** 1997 Jan;77(1):46–8

Effect of aspirin dosage and enteric coating on platelet reactivity. Feng D, et al. **Am J Cardiol** 1997 Jul 15; 80(2):189–93

Antiphospholipid antibody-associated recurrent pregnancy loss: treatment with heparin and low-dose aspirin is superior to low-dose aspirin alone. Kutteh WH. **Am J Obstet Gynecol** 1996 May;174(5):1584–9

Randomized trial of aspirin versus aspirin and heparin in pregnant women with the antiphospholipid syndrome] Cohen H. **Ann Med Interne (Paris)** 1996 Sep;147 Suppl 1:44

Ticlopidine and aspirin therapy following implantation of coronary artery stents. Hobson AG, et al. **Ann Pharmacother** 1997 Jun;31(6):770–2 (16 ref.)

Aspirin in chloroform as an effective adjuvant in the management of chronic neurogenic pain. Tharion G, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):437–9

Low dose aspirin for the treatment of fetal growth restriction: a randomized controlled trial. Newnham JP, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):370–4

Development of chitosan/polyethylene vinyl acetate co-matrix: controlled release of aspirin-heparin for preventing cardiovascular thrombosis. Vasudev SC, et al. **Biomaterials** 1997 Mar;18(5):375–81

A randomised controlled trial of feedback to general practitioners of their prophylactic aspirin prescribing. McCartney P, et al. **BMJ** 1997 Jul 5;315(7099):35–6

Formulation of aspirin–magaldrate double-layer tablets: in vitro evaluation and cytoprotective activity in rats. al Gohary OM, et al. **Boll Chim Farm** 1996 Jul–Aug; 135(7):421–8

Evidence-based general practice [letter] Campion-Smith C. **Br J Gen Pract** 1997 Jul;47(420):462

Aspirin use in middle-aged men with cardiovascular disease: are opportunities being missed? McCallum AK, et al. **Br J Gen Pract** 1997 Jul;47(420):417–21

Antiplatelet therapy [comment] Wood SF. **Br J Gen Pract** 1996 Aug;46(409):494–5. Comment on: Br J Gen Pract 1996 Jun;46(407):367–70.

Low-dose aspirin in polycythaemia vera: a pilot study. Gruppo Italiano Studio Policitemia (GISP). **Br J Haematol** 1997 May;97(2):453–6

A meta-analysis of low dose aspirin for the prevention of intrauterine growth retardation. Leitich H, et al. **Br J Obstet Gynaecol** 1997 Apr;104(4):450–9

Comparison of high-dose with low-dose aspirin in patients with mechanical heart valve replacement treated with oral anticoagulant. Altman R, et al. **Circulation** 1996 Nov 1; 94(9):2113–6

Transdermal aspirin and gastric ulcer healing after coronary artery stent placement [letter] Keimowitz RM, et al. **Circulation** 1996 Dec 1;94(11):3002

Fibrin D-dimer and beta-thromboglobulin as markers of thrombogenesis and platelet activation in atrial fibrillation. Effects of introducing ultra-low-dose warfarin and aspirin [see comments] Lip GY, et al. **Circulation** 1996 Aug 1; 94(3):425–31. Comment in: Circulation 1997 Aug 5;96(3):1053–4; discussion 1055–6. Comment in: Circulation 1997 Aug 5;96(3):1054–6.

Comparative bioavailability of aspirin and paracetamol following single dose administration of soluble and plain tablets. Muir N, et al. **Curr Med Res Opin** 1997; 13(9):491–500

Risk factors for pregnancy-induced hypertension in women at high risk for the condition. Italian Study of Aspirin in Pregnancy Group. Parazzini F, et al. **Epidemiology** 1996 May;7(3):306–8

Treating the non-electrical risks of atrial fibrillation. Gershlick AH. **Eur Heart J** 1997 May;18 Suppl C:C19–26 (39 ref.)

Antiplatelet agents in thrombotic thrombocytopenic purpura (TTP). Results of a randomized multicenter trial by the Italian Cooperative Group for TTP. Bobbio-Pallavicini E, et al. **Haematologica** 1997 Jul–Aug;82(4):429–35

Aspirin protects low density lipoprotein from oxidative modification. Steer KA, et al. **Heart** 1997 Apr;77(4):333–7

Use of aspirin to facilitate vomiting in a young woman with bulimia nervosa: a case report. Gordon J, et al. **Int J Eat Disord** 1997 Mar;21(2):201–3

The use of low-dose aspirin to prevent preeclampsia. Herabutya Y, et al. **Int J Gynaecol Obstet** 1996 Aug; 54(2):177–8

Aspirin desensitization treatment of aspirin-sensitive patients with rhinosinusitis-asthma: long-term outcomes. Stevenson DD, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):751–8

Ticlopidine and aspirin pretreatment reduces coagulation and platelet activation during coronary dilation procedures. Gregorini L, et al. **J Am Coll Cardiol** 1997 Jan;29(1):13–20

High pressure assisted coronary stent implantation accomplished without intravascular ultrasound guidance and subsequent anticoagulation. Nakamura S, et al. **J Am Coll Cardiol** 1997 Jan;29(1):21–7

Coronary stent placement in patients with acute myocardial infarction: comparison of clinical and angiographic outcome after randomization to antiplatelet or anticoagulant therapy [see comments] Schömig A, et al. **J Am Coll Cardiol** 1997 Jan;29(1):28–34. Comment in: ACP J Club 1997 Jul–Aug;127(1):4.

Progression of the culprit lesion in unstable coronary artery disease with warfarin and aspirin versus aspirin alone: preliminary study. Williams MJ, et al. **J Am Coll Cardiol** 1997 Aug;30(2):364–9

Anti-platelet effects of 100 mg alternate day oral aspirin: a randomized, double-blind, placebo-controlled trial of regular and enteric coated formulations in men and women. Ridker PM, et al. **J Cardiovasc Risk** 1996 Apr;3(2):209–12

Aspirin preparation and risk of GI bleeding. Rao G. **J Fam Pract** 1997 Mar;44(3):242–3

Combined dipyridamole and aspirin pellet formulation for improved oral drug delivery. Part 1: Development pharmaceutics. Deasy PB, et al. **J Microencapsul** 1996 Jul–Aug;13(4):385–94

Combined dipyridamole and aspirin pellet formulation for improved oral drug delivery. Part 2: In-vivo evaluation and stability. Murtagh PW, et al. **J Microencapsul** 1996 Jul–Aug;13(4):395–405

The influence of microencapsulation using Eudragit RS100 on the hydrolysis kinetics of acetylsalicylic acid. Vachon MG, et al. **J Microencapsul** 1997 May–Jun;14(3):281–301

Suppression of human colorectal mucosal prostaglandins: determining the lowest effective aspirin dose. Ruffin MT 4th, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1152–60

European Stroke Prevention Study 2. Efficacy and safety data. **J Neurol Sci** 1997 Sep;151 Suppl:S1–77

Early outcome in acute ischemic stroke is not influenced by the prophylactic use of low-dose aspirin. De Keyser J, et al. **J Neurol Sci** 1997 Jan;145(1):93–6

European Stroke Prevention Study. 2. Dipyridamole and acetylsalicylic acid in the secondary prevention of stroke. Diener HC, et al. **J Neurol Sci** 1996 Nov;143(1–2):1–13

Effect of particle shape of acetyl salicylic acid powders on gastric damages in rats. Zolfaghari ME, et al. **J Pharm Belg** 1997 Jan–Feb;52(1):1–6

Aspirin plus either dipyridamole or ticlopidine is effective in preventing recurrent myocardial infarction. Secondary Prevention Group. Ishikawa K, et al. **Jpn Circ J** 1997 Jan; 61(1):38–45

Randomised double-blind trial of fixed low-dose warfarin with aspirin after myocardial infarction. Coumadin Aspirin Reinfarction Study (CARS) Investigators. **Lancet** 1997 Aug 9;350(9075):389–96

Gastric safety and enteric-coated aspirin [letter] Elwood P. **Lancet** 1997 Feb 8;349(9049):432

Safety profile of low-dose aspirin [comment] Symmons DP. **Lancet** 1996 Nov 23;348(9039):1394–5. Comment on: Lancet 1996 Nov 23;348(9039):1413–6.

Topical acetylsalicylate attenuates capsaicin induced pain, flare and allodynia but not thermal hyperalgesia. Schmelz M, et al. **Neurosci Lett** 1996 Aug 16;214(1):72–4

Discrepancy among dissolution rates of commercial tables as a function of the dissolution method.Part 7: Aspirin. Ammar HA, et al. **Pharmazie** 1997 Feb;52(2):145–9

Effect of low dose aspirin on thrombus formation at arterial and venous microanastomoses and on the tissue microcirculation. Peter FW, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1112–21

Effects of ultra-low-dose aspirin on embolization in a model of laser-induced thrombus formation. Doutremepuich C, et al. **Semin Thromb Hemost** 1996;22 Suppl 1:67–70

Enhanced response to chemotactic activation of polymorphonuclear leukocytes from patients with heart valve replacement. Maugeri N, et al. **Thromb Haemost** 1997 Jan;77(1):71–4

Development of large platelet aggregates from small aggregates as determined by laser-light scattering: effects of aggregant concentration and antiplatelet medication [see comments] Tohgi H, et al. **Thromb Haemost** 1996 May; 75(5):838–43. Comment in: Thromb Haemost 1997 Mar;77(3):608.

Antithrombotic effects of aspirin and LMWH in a laser-induced model of arterials and venous thrombosis. Imbault P, et al. **Thromb Res** 1996 Jun 15;82(6):469–78

Effect of aspirin-dipyridamole and heparin and their combination on venous thrombosis in hypercoagulable or thrombotic animals. Iomhair MM, et al. **Thromb Res** 1996 Jun 15;82(6):479–83

Effectiveness of low-dose ASA in prevention of secondary ischemic stroke, the ASA Study Group in Taiwan. Lee TK, et al. **Thromb Res** 1997 Jul 15;87(2):215–24

Effect on fetal circulation of low-dose aspirin for prevention and treatment of pre-eclampsia and intrauterine growth restriction: Doppler flow study. Bar J, et al. **Ultrasound Obstet Gynecol** 1997 Apr;9(4):262–5

[Antithrombotic treatment of acute ischemic apoplexy] Boysen G, et al. **Ugeskr Laeger** 1997 Sep 1;159(36):5387–9 **(Dan)**

[The combination of oral lysine-acetylsalicylate and metoclopramide compared with oral sumatriptan in the treatment of migraine attacks. A randomized, double-blind, placebo-controlled clinical trial] Tfelt-Hansen P, et al. **Ugeskr Laeger** 1996 Nov 4;158(45):6435–9 (Eng. Abstr.) **(Dan)**

[A fixed combination of acetylsalicylic acid and paracetamol is absolutely effective (interview by Dr. rer. nat. Anita Schweiger)] Schweiger A. **Fortschr Med** 1996 Feb 10; 114(4):46–7 **(Ger)**

[Dosage of acetylsalicylic acid in cerebral ischemia] Stiegler H. **Internist (Berl)** 1997 Mar;38(3):262–3 **(Ger)**

[Comment on the contribution: "Usefulness of fixed analgesic combinations exemplified by thomapyrin" (letter; comment)] Hörl WH. **Wien Klin Wochenschr** 1997 Apr 11; 109(7):255–6. Comment on: Wien Klin Wochenschr 1996;108(8):219–33. **(Ger)**

[Does regular administration of aspirin reduce the risk of gastrointestinal carcinomas?] Folwaczny C, et al. **Z Gastroenterol** 1996 Dec;34(12):823–5 **(Ger)**

[Early treatment of acute myocardial infarct: implementation of therapy guidelines in routine clinical practice, MITRA pilot phase] Schuster S, et al. **Z Kardiol** 1997 Apr; 86(4):273–83 (Eng. Abstr.) **(Ger)**

[Coumarin combined with low-dose acetylsalicylic acid in the prevention of thromboembolic complications in patients with mitral and aortic valve prostheses] Voith L, et al. **Orv Hetil** 1997 Apr 13;138(15):925–9 (Eng. Abstr.) **(Hun)**

[A case of antiphospholipid antibody syndrome successfully treated with prednisolone and low-dose aspirin, with subsequent normal pregnancy] Yamamoto M, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Feb;20(1):67–72 (Eng. Abstr.) **(Jpn)**

[Antiplatelet drugs as a preventive measure of stroke--treatment strategies by subtypes of ischemic stroke] Yamaguchi T. **Rinsho Ketsueki** 1996 Sep;37(9):808–12 (14 ref.) **(Jpn)**

[Changes in the functional status of the hemostatic system with the administration of heparin combined with aspirin to animals with experimental diabetes] Liapina LA, et al. **Izv Akad Nauk Ser Biol** 1996 Sep–Oct;(5):624–7 (Eng. Abstr.) **(Rus)**

[Should individuals without evidence of coronary disease and with risk factors receive continuous treatment with aspirin? Arguments in favor] Calvo F, et al. **Rev Esp Cardiol** 1996 Nov;49(11):793–800 (Eng. Abstr.) **(Spa)**

[Should individuals without evidence of coronary disease and with risk factors receive continuous treatment with aspirin? Arguments against] López de Sá E. **Rev Esp Cardiol** 1996 Nov;49(11):788–92 (Eng. Abstr.) **(Spa)**

[Secondary prevention of ischemic strokes: effect of dosage of aspirin] Alvarez-Sabín J, et al. **Rev Neurol** 1997 Apr; 25(140):541–4 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Increased in vitro cysteinyl leukotriene release from blood leukocytes in patients with asthma, nasal polyps, and aspirin intolerance. Mewes T, et al. **Allergy** 1996 Jul;51(7):506–10

Urinary leukotriene E4 and 11-dehydrothromboxane B2 in patients with aspirin-sensitive asthma. Oosaki R, et al. **Allergy** 1997 Apr;52(4):470–3

Autoimmune vasculitis and aortic stenosis in aspirin-induced asthma (AIA). Szczeklik A, et al. **Allergy** 1997 Mar; 52(3):352–4

Mechanism of aspirin-induced asthma. Szczeklik A. **Allergy** 1997 Jun;52(6):613–9 (76 ref.)

Hemorrhagic events during therapy with recombinant tissue plasminogen activator, heparin, and aspirin for unstable angina (Thrombolysis in Myocardial Ischemia, phase IIIB trial). Bovill EG, et al. **Am J Cardiol** 1997 Feb 15; 79(4):391–6

Primary amino-bisphosphonates: a new class of gastrotoxic drugs--comparison of alendronate and aspirin. Graham DY, et al. **Am J Gastroenterol** 1997 Aug;92(8):1322–5

Attenuation of aspirin-induced bronchoconstriction by sodium cromoglycate and nedocromil sodium. Robuschi M, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1461–4

Bronchial aspirin challenge causes specific eicosanoid response in aspirin-sensitive asthmatics. Szczeklik A, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1608–14

Low-dose aspirin and intracranial surgery. A survey of the opinions of consultant neuroanaesthetists in the UK. James DN, et al. **Anaesthesia** 1997 Feb;52(2):169–72

Henoch-Schönlein purpura associated with acetylsalicylic acid [letter] Solà Alberich R, et al. **Ann Intern Med** 1997 Apr 15;126(8):665

Drug toxicity and surveillance in children. Choonara I, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):407–10 (47 ref.)

Angioedema and acute asthma attack due to the unexpected occurrence of aspirin in an over-the-counter cold preparation [letter] Chan TY. **Br J Clin Pract** 1996 Oct–Nov;50(7):412–3

Acetylsalicylic acid (ASA) and nonsteroidal anti-inflammatory drugs (NSAIDs) during pregnancy. Are they safe? Theis JG. **Can Fam Physician** 1996 Dec; 42:2347–9

Differential expression of platelet activation markers in aspirin-sensitive asthmatics and normal subjects. Taylor ML, et al. **Clin Exp Allergy** 1996 Feb;26(2):202–15

A new triad: sensitivity to aspirin, allergic rhinitis, and severe allergic reaction to ingested aeroallergens. Sánchez-Borges M, et al. **Cutis** 1997 Jun;59(6):311–4 (11 ref.)

Effect of combined anticoagulation and low-dose aspirin

treatment on upper gastrointestinal bleeding. Younossi ZM, et al. **Dig Dis Sci** 1997 Jan;42(1):79–82

Which prophylactic aspirin? **Drug Ther Bull** 1997 Jan; 35(1):7–8 (19 ref.)

Gastric toxicity of antiplatelet therapy with low-dose aspirin. Guslandi M. **Drugs** 1997 Jan;53(1):1–5 (40 ref.)

Pharmacological prophylaxis of bleeding in surgical patients treated with aspirin. Flordal PA.
Eur J Anaesthesiol Suppl 1997 Mar;14:38–41 (29 ref.)

The use of low-dose aprotinin, epsilon-aminocaproic acid or tranexamic acid for prevention of mediastinal bleeding in patients receiving aspirin before coronary artery bypass operations [letter] Landymore RW, et al.
Eur J Cardiothorac Surg 1997 Apr;11(4):798–800

Aspirin renders the oesophageal mucosa more permeable to acid and pepsin [letter; comment] Brewer NR, et al.
Eur J Gastroenterol Hepatol 1997 Mar;9(3):315. Comment on: Eur J Gastroenterol Hepatol 1995 Nov;7(11):1065–72.

Epileptic seizure during aspirin and caffeine withdrawal in a drug induced headache. Antonaci F, et al.
Funct Neurol 1996 Nov-Dec;11(6):333–7

Evidence of aspirin use in both upper and lower gastrointestinal perforation [see comments] Lanas A, et al. **Gastroenterology** 1997 Mar;112(3):683–9. Comment in: ACP J Club 1997 Sep–Oct;127(2):47.

Co-existence of hepatitis A and adult Reye's syndrome. Duerksen DR, et al. **Gut** 1997 Jul;41(1):121–4

Effect of sucralfate on aspirin induced mucosal injury and impaired haemostasis in humans. Hudson N, et al. **Gut** 1997 Jul;41(1):19–23

Aspirin related gastrointestinal bleeders have an exaggerated bleeding time response due to aspirin use. Lanas AI, et al. **Gut** 1996 Nov;39(5):654–60

Effects of aspirin and Helicobacter pylori on the gastroduodenal mucosal permeability to sucrose. Rabassa AA, et al. **Gut** 1996 Aug;39(2):159–63

Effects of aspirin on human psychophysical tuning curves in forward and simultaneous masking. Beveridge HA, et al. **Hear Res** 1996 Sep 15;99(1–2):110–8

Profound overexpression of leukotriene C4 synthase in bronchial biopsies from aspirin-intolerant asthmatic patients. Sampson AP, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):355–7

Low dose aspirin and secondary myocardial infarction [letter; comment] Lowenthal MN. **Isr J Med Sci** 1996 Sep; 32(9):789–90. Comment on: Isr J Med Sci 1996 May;32(5):288–91.

The use of a synthetic prostaglandin E1 analog as a gastric protectant against aspirin-induced hemorrhage in the dog. Bowersox TS, et al. **J Am Anim Hosp Assoc** 1996 Sep–Oct; 32(5):401–7

Massive gastric hemorrhage induced by buffered aspirin in a greyhound. Shaw N, et al. **J Am Anim Hosp Assoc** 1997 May-Jun;33(3):215–9

Growth markers in the human gastric mucosa during adaptation to continued aspirin administration. Stachura J, et al. **J Clin Gastroenterol** 1996 Jun;22(4):282–7

Aspirin-induced post-gingivectomy haemorrhage: a timely reminder. Thomason JM, et al. **J Clin Periodontol** 1997 Feb;24(2):136–8

Aspirin preparation and risk of GI bleeding. Rao G.
J Fam Pract 1997 Mar;44(3):242–3

Recovery of mucin content in surface layer of rat gastric mucosa after HCl-aspirin-induced mucosal damage. Sakai T, et al. **J Gastroenterol** 1997 Apr;32(2):157–63

Case report: gastrointestinal haemorrhage from jejunal diverticulosis, probably induced by low dose aspirin. Kaushik SP, et al. **J Gastroenterol Hepatol** 1996 Oct; 11(10):908–10

Non-steroidal anti-inflammatory drugs and variceal bleeding: a case-control study. de Lédinghen V, et al.
J Hepatol 1996 May;24(5):570–3

Granulomatous hepatitis induced by aspirin-kodein analgesics. Elzouki AN, et al. **J Intern Med** 1996 Mar; 239(3):279–81

The influence of misoprostol (synthetic analogue of prostaglandin E1) on aspirin-induced bronchoconstriction in aspirin-sensitive asthma. Szmidt M, et al.
J Investig Allergol Clin Immunol 1996 Mar–Apr;6(2):121–5

Drug allergy: identification and characterization of IgE-reactivities to aspirin and related compounds. Zhu DX, et al. **J Investig Allergol Clin Immunol** 1997 May-Jun; 7(3):160–8

Effect of particle shape of acetyl salicylic acid powders on gastric damages in rats. Zolfaghari ME, et al.
J Pharm Belg 1997 Jan-Feb;52(1):1–6

Physiological, immunohistochemical and molecular aspects of gastric adaptation to stress, aspirin and to H. pylori-derived gastrotoxins. Konturek PC.
J Physiol Pharmacol 1997 Mar;48(1):3–42 (89 ref.)

Plasma zinc, copper and copper/zinc ratio in intrinsic asthma. Kadrabová J, et al. **J Trace Elem Med Biol** 1996 Apr; 10(1):50–3

Complete resolution of airway hyperresponsiveness in aspirin-sensitive asthmatic patients. Park HS.
Korean J Intern Med 1996 Jun;11(2):157–60

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Członkowska A, et al. **Lancet** 1997 Aug 9;350(9075):441–2; discussion 443–4

Gastric safety and enteric-coated aspirin [letter; comment] Guslandi M. **Lancet** 1997 Feb 8;349(9049):431. Comment on: Lancet 1996 Nov 23;348(9039):1413–6.

Risk of aspirin-associated major upper-gastrointestinal bleeding with enteric-coated or buffered product [see comments] Kelly JP, et al. **Lancet** 1996 Nov 23; 348(9039):1413–6. Comment in: Lancet 1996 Nov 23;348(9039):1394–5. Comment in: Lancet 1997 Feb 8;349(9049):430–1. Comment in: Lancet 1997 Feb 8;349(9049):431.

Neutropenia with ticlopidine plus aspirin [letter; comment] Neumann FJ, et al. **Lancet** 1997 May 24;349(9064):1552–3 . Comment on: Lancet 1997 Feb 15;349(9050):474–5.

Gastric safety and enteric-coated aspirin [letter; comment] Petroski D. **Lancet** 1997 Feb 8;349(9049):430–1. Comment on: Lancet 1996 Nov 23;348(9039):1413–6.

Gastric safety and enteric-coated aspirin [letter] Sullivan JL.
Lancet 1997 Feb 8;349(9049):431–2

Orbital complications of sinusitis in the aspirin triad syndrome. McFadden EA, et al. **Laryngoscope** 1996 Sep; 106(9 Pt 1):1103–7

A copper-complex reduced gastric damage caused by acetylsalicylic acid and ethanol. Franco L, et al.
Prostaglandins 1996 May;51(5):331–8

Blood loss in long-term aspirin users undergoing transurethral prostatectomy. Ala-Opas MY, et al.
Scand J Urol Nephrol 1996 Jun;30(3):203–6

Acetylsalicylic acid-induced bleeding disorder [letter] Werner W, et al. **Scand J Urol Nephrol** 1997 Aug;31(4):381

Oral anticoagulation alone or in combination with aspirin: risks and benefits. Hafner J, et al. **Vasa** 1996;25(1):1–12 (75 ref.)

[Acetylsalicylic acid and gastrointestinal hemorrhages: preferably a lower dosage] Tytgat GN, et al.
Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2219–23 (32 ref.) **(Dut)**

[Importance of in vivo and in vitro studies of leukotrienes. Application to the particular instance of aspirin] Sainte-Laudy J. **Allerg Immunol (Paris)** 1997 Feb; 29(2):28–35 (65 ref.) (Eng. Abstr.) **(Fre)**

[Studies on the protective effect of lansoprazole on human gastric mucosa against low-dose acetylsalicylic acid. An endoscopic controlled double-blind study] Müller P, et al.
Arzneimittelforschung 1997 Jun;47(6):758–60 (Eng. Abstr.) **(Ger)**

[Oral exposure testing in non-aspirin-induced analgesic intolerance] Wiedow O, et al. **Hautarzt** 1996 Dec; 47(12):901–8 (Eng. Abstr.) **(Ger)**

[Recurrent infarct during aspirin therapy] Stiegler H.
Internist (Berl) 1997 Apr;38(4):361 **(Ger)**

[Nephrotoxicity of analgesic combination preparations (letter; comment)] Schwarz A. **Wien Klin Wochenschr** 1997 Apr 11;109(7):247–8; discussion 249–54. Comment on: Wien Klin Wochenschr 1996;108(8):219–33. **(Ger)**

[Use of aspirin for fever by Russian immigrant children] Ben-Noun L. **Harefuah** 1996 Jun 16;130(12):820–1, 879 (Eng. Abstr.) **(Heb)**

[The antagonistic effect of aspirin on the expression of prostaglandin participation in the antihypertensive activity of ACE inhibitors] Alimento M, et al. **Cardiologia** 1997 Jun;42(6):605–10 (Eng. Abstr.) **(Ita)**

[The epidemiology of the gastroduodenal damage induced by aspirin and other nonsteroidal anti-inflammatory drugs] Dobrilla G, et al. **Recenti Prog Med** 1997 May;88(5):202–11 (78 ref.) (Eng. Abstr.) **(Ita)**

[Aspirin-induced asthma as an important type of bronchial asthma] Sakakibara H, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:106–15 (Eng. Abstr.) **(Jpn)**

[Aspirin-induced asthma (its clinical picture, pathogenesis and treatment)] Fedoseev GB, et al. **Ter Arkh** 1997; 69(3):64–8 (43 ref.) **(Rus)**

[Pulmonary hemorrhage after thrombolysis in acute myocardial infarct (letter) (corrected and republished letter originally printed in An Med Interna 1996 Oct;13(10):514–5)] Rodríguez Blanco VM, et al.
An Med Interna 1997 Apr;14(4):209 (7 ref.) **(Spa)**

[Chronic anemia protects against gastric damage by alcohol and aspirin. The role of the toxic radicals and lipid peroxidation] Marroni NP, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):497–502 (Eng. Abstr.) **(Spa)**

[Metabolic changes in arachidonic acid during aspirin desensitization] Salazar Villa RM, et al. **Rev Alerg Mex** 1996 May–Jun;43(3):56–61 (Eng. Abstr.) **(Spa)**

ANALOGS & DERIVATIVES

Role of ET and NO in resuscitative effect of diaspirin cross-linked hemoglobin after hemorrhage in rat. Gulati A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H827–36

Lysine acetylsalicylate modifies aphagia and thermogenic changes induced by lateral hypothalamic lesion. Monda M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1638–42

Effect on postoperative analgesia of small-dose lysine acetylsalicylate added to prilocaine during intravenous regional anesthesia. Corpataux JB, et al. **Anesth Analg** 1997 May;84(5):1081–5

The effects of cross-linked hemoglobin on regional vascular conductance in dogs. Dietz NM, et al. **Anesth Analg** 1997 Aug;85(2):265–73

Dose response effect of diaspirin crosslinked hemoglobin (DCLHb) on systemic hemodynamics and regional blood circulation in rats. Barve A, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan–Mar; 25(1–2):75–84

Effect of subarachnoid administration of alpha-alpha diaspirin crosslinked hemoglobin on cerebral blood flow in rats. Cole DJ, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan–Mar; 25(1–2):95–104

Alpha-alpha diaspirin crosslinked hemoglobin, nitric oxide, and cerebral ischemic injury in rats. Cole DJ, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan–Mar; 25(1–2):141–52

The cytotoxic activities of human hemoglobin and diaspirin crosslinked hemoglobin. Hsia N, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 Sep; 24(5):533–51

Diaspirin cross-linked hemoglobin does not alter isolated human umbilical artery or vein tone. Jing M, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 Nov; 24(6):621–8

Resuscitation with diaspirin crosslinked hemoglobin increases cerebral and renal blood perfusion in hemorrhaged rats. Kumar A, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan–Mar; 25(1–2):85–94

Resuscitation with increasing doses of diaspirin crosslinked hemoglobin in swine. Marchand G, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 Sep; 24(5):469–87

Diaspirin crosslinked hemoglobin (DCLHb): more effective than lactated Ringer's solution in restoring central venous oxygen saturation after hemorrhagic shock in rats. Powell CC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May;24(3):197–200

Effect of diaspirin crosslinked hemoglobin on systemic and regional blood circulation in pregnant rats. Sen AP, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 May; 25(3):275–88

Salicylate levels in rat stomach tissues after administration of aspalatone and acetylsalicylic acid in relation to their ulcerogenicity. Suh DY, et al. **Arzneimittelforschung** 1997 Jul;47(7):826–8

In vitro study of the anti-aggregating activity of two nitroderivatives of acetylsalicylic acid. Lechi C, et al.
Blood Coagul Fibrinolysis 1996 Mar;7(2):206–9

Mechanism of the contractile effect of diaspirin-cross-linked hemoglobin in rat isolated aorta strip denuded of endothelium as revealed using an oil-immersion procedure. Rioux F, et al. **Can J Physiol Pharmacol** 1996 Oct; 74(10):1171–9

Resuscitation of pulmonary contusion: effects of a red cell substitute. Cohn SM, et al. **Crit Care Med** 1997 Mar; 25(3):484–91

Nitric oxide overproduction in septic shock—methemoglobin concentrations and blockade with diaspirin cross-linked hemoglobin [editorial; comment] Kilbourn RG.
Crit Care Med 1997 Sep;25(9):1446–7. Comment on: Crit Care Med 1997 Sep;25(9):1588–93.

Phase I study of the safety and pharmacologic effects of diaspirin cross-linked hemoglobin solution. Przybelski RJ, et al. **Crit Care Med** 1996 Dec;24(12):1993–2000

Initial evaluation of diaspirin cross-linked hemoglobin (DCLHb) as a vasopressor in critically ill patients. Reah G, et al. **Crit Care Med** 1997 Sep;25(9):1480–8

Comparative pharmacokinetics of Aspegic 1000 mg i.v. versus 1000 mg i.m. thrice daily. Nia B, et al.
Eur J Drug Metab Pharmacokinet 1996 Oct–Dec; 21(4):333–8

Comparative study of the efficacy of lysine acetylsalicylate, indomethacin and pethidine in acute renal colic. al-Sahlawi KS, et al. **Eur J Emerg Med** 1996 Sep;3(3):183–6

Changes in neurokinin A airway responsiveness with inhaled lysine-acetylsalicylate in asthma. Crimi N, et al.
Eur Respir J 1996 Jun;9(6):1139–45

Activity of inhaled lysine acetylsalicylate (L-ASA) on bradykinin-induced bronchoconstriction in asthmatics: evidence of contribution of prostaglandins. Polosa R, et al. **Eur Respir J** 1997 Apr;10(4):866–71

Crosslinked hemoglobin inhibits endothelium-dependent relaxations in isolated canine arteries. Katušić ZS, et al.
Gen Pharmacol 1996 Mar;27(2):239–44

Protective effects of ticlopidine and aspirin, administered alone and in combination, on thrombus formation in rat cerebral vessels. Sasaki Y, et al. **Haemostasis** 1996 May-Jun;26(3):150–6

Repeated doses of combined oral lysine acetylsalicylate and metoclopramide in the acute treatment of migraine. Hugues FC, et al. **Headache** 1997 Jul-Aug;37(7):452–4

Protective effect of inhaled lysine acetylsalicylate on allergen-induced early and late asthmatic reactions. Sestini P, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):71–7

Effects of polymerization on the hypertensive action of diaspirin cross-linked hemoglobin in rats [see comments] Abassi Z, et al. **J Lab Clin Med** 1997 Jun;129(6):603–10. Comment in: J Lab Clin Med 1997 Jun;129(6):580–3.

Actions of diaspirin cross-linked hemoglobin on isolated rat and dog vessels. Hart JL, et al. **J Lab Clin Med** 1997 Mar; 129(3):356–63

Effect of hemodilution with diaspirin cross-linked hemoglobin on intracranial pressure, cerebral perfusion pressure, and fluid requirements after head injury and shock. Chappell JE, et al. **J Neurosurg** 1997 Jan;86(1):131–8

Hypervolemic-hemodilution during cerebral ischemia in rats: effect of diaspirin cross-linked hemoglobin (DCLHb) on neurologic outcome and infarct volume. Cole DJ, et al.

J Neurosurg Anesthesiol 1997 Jan;9(1):44–50

Diaspirin cross-linked hemoglobin resuscitation improves cerebral perfusion after head injury and shock. Chappell JE, et al. **J Trauma** 1996 Nov;41(5):781–8

Resuscitation from hemorrhagic shock with diaspirin cross-linked hemoglobin, blood, or hetastarch. DeAngeles DA, et al. **J Trauma** 1997 Mar;42(3):406–12; discussion 412–4

Pulmonary hypertension and systemic vasoconstriction may offset the benefits of acellular hemoglobin blood substitutes. de Figueiredo LF, et al. **J Trauma** 1997 May;42(5):847–54; discussion 854–6

Effect of small-volume resuscitation on intracranial pressure and related cerebral variables. Shackford SR. **J Trauma** 1997 May;42(5 Suppl):S48–53

Cellular responses to surgical trauma, hemorrhage, and resuscitation with diaspirin cross-linked hemoglobin in rats. Xu L, et al. **J Trauma** 1997 Jan;42(1):32–41

A new antithrombotic agent, aspalatone, attenuated cardiotoxicity induced by doxorubicin in the mouse; possible involvement of antioxidant mechanism. Kim C, et al. **Life Sci** 1997;60(4–5):PL75–82

Epileptogenic activity induced by combined treatment with antiinflammatory drugs and enoxacin and its inhibition by a calcium antagonist, nicardipine. Kamei C, et al. **Methods Find Exp Clin Pharmacol** 1996 Nov;18(9):579–88

Combined neuroprotection and reperfusion therapy for stroke. Effect of lubeluzole and diaspirin cross-linked hemoglobin in experimental focal ischemia. Aronowski J, et al. **Stroke** 1996 Sep;27(9):1571–6; discussion 1576–7

The antiplatelet effects of a new nitroderivative of acetylsalicylic acid--an in vitro study of inhibition on the early phase of platelet activation and on TXA2 production. Lechi C, et al. **Thromb Haemost** 1996 Nov;76(5):791–8

[Comparison between effects of morning and evening administration of effervescent calcium carbasalate (equivalent of 160 mg aspirin) on the gastroduodenal mucosa in healthy volunteers] Berlin I, et al. **Pathol Biol (Paris)** 1997 Jun;45(6):514–20 (Eng. Abstr.) **(Fre)**

[Antiaggregant effect and tolerance of calcium carbasalate administrated immediately after aorto-coronary bypass. Results of a double-blind versus placebo study] Mathieu P, et al. **Pathol Biol (Paris)** 1996 Jun;44(6):571–80 (Eng. Abstr.) **(Fre)**

[Comparative trial of lysine acetylsalicylate and paracetamol on pain in daily medical practice] Čabane J, et al. **Presse Med** 1996 Oct 12;25(30):1367–71 (Eng. Abstr.) **(Fre)**

ANALYSIS

Acetylsalicylate and salicylates in foods. Janssen PL, et al. **Cancer Lett** 1997 Mar 19;114(1–2):163–4

Development and validation of a reversed-phase liquid chromatographic method for analysis of aspirin and warfarin in a combination tablet formulation. Montgomery ER, et al. **J Pharm Biomed Anal** 1996 Oct;15(1):73–82

Spectrofluorometric estimation of aspirin and dipyridamole in pure admixtures and in dosage forms. Umapathi P, et al. **J Pharm Biomed Anal** 1997 Jul;15(11):1703–8

A highly sensitive HPLC method for the simultaneous determination of acetylsalicylic, salicylic and salicyluric acids in biologic fluids: pharmacokinetic, metabolic and monitoring implications. Krivosíková Z, et al. **Methods Find Exp Clin Pharmacol** 1996 Oct;18(8):527–32

Total organic carbon method for aspirin cleaning validation. Holmes AJ, et al. **PDA J Pharm Sci Technol** 1997 Jul–Aug; 51(4):149–52

ANTAGONISTS & INHIBITORS

Nitric oxide reverses aspirin antagonism of t-PA thrombolysis in a rabbit model of thromboembolic stroke. Bednar MM, et al. **Exp Neurol** 1997 Aug;146(2):513–7

BLOOD

Simultaneous determination of acetylsalicylic acid and salicylic acid in human plasma by high-performance liquid chromatography. Kees F, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):172–7

Measurement of serum acetylsalicylic acid in a porcine model of aspirin overdose. Eppler J, et al. **Vet Hum Toxicol** 1996 Dec;38(6):409–12

CHEMISTRY

Tensides from the group of propylene oxide and ethylene oxide copolymers. Part XI. Solubilization of acetylsalicylic acid (ASA) by monomethoxypoly(ethylene glycol) (M-PEG) micelles. Zgoda MM. **Acta Pol Pharm** 1995 Jan–Feb;52(1):61–5

Need for quality-control testing of extemporaneously prepared oral solids [letter] al-Achi A, et al. **Am J Health Syst Pharm** 1996 May 15;53(10):1194–5

The influence of microencapsulation using Eudragit RS100 on the hydrolysis kinetics of acetylsalicylic acid. Vachon MG, et al. **J Microencapsul** 1997 May–Jun;14(3):281–301

Hydrolysis of aspirin studied by spectrophotometric and fluorometric variable-temperature kinetics. Alibrandi G, et al. **J Pharm Sci** 1996 Oct;85(10):1105–8

Interaction of small ligands with human serum albumin IIIA subdomain. How to determine the affinity constant using an easy steady state fluorescent method [letter] Bagatolli LA, et al. **J Pharm Sci** 1996 Oct;85(10):1131–2

CONTRAINDICATIONS

[Preoperative aspirin therapy--a contraindication for kidney transplantation?] Werner W, et al. **Zentralbl Chir** 1997; 122(5):374–7 (Eng. Abstr.) **(Ger)**

DIAGNOSTIC USE

Intranasal challenge with aspirin induces cell influx and activation of eosinophils and mast cells in nasal secretions of ASA-sensitive patients. Kowalski ML, et al. **Clin Exp Allergy** 1996 Jul;26(7):807–14

Acetylsalicylic acid (aspirin) test for the diagnosis of renovascular hypertension. Gluszek J, et al. **Clin Invest Med** 1997 Jun;20(3):171–5

[The in-vivo test of the inhibition of leukocyte natural migration with aspirin and analgin in the specific diagnosis of the asthmatic triad] Kanchurina NA, et al. **Ter Arkh** 1996;68(12):25–8 (Eng. Abstr.) **(Rus)**

ECONOMICS

[Cost-effectiveness analysis of prevention of reinfarction using low-dose acetylsalicylic acid; model calculation] Schädlich PK, et al. **Soz Praventivmed** 1997;42(2):114–20 (Eng. Abstr.) **(Ger)**

HISTORY

One hundred years of aspirin. Jack DB. **Lancet** 1997 Aug 9;350(9075):437–9

IMMUNOLOGY

Acetaminophen anaphylaxis with aspirin and sodium salicylate sensitivity: a case report. Schwarz N, et al. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):473–4

Intranasal challenge with aspirin induces cell influx and activation of eosinophils and mast cells in nasal secretions of ASA-sensitive patients. Kowalski ML, et al. **Clin Exp Allergy** 1996 Jul;26(7):807–14

Aspirin desensitization treatment of aspirin-sensitive patients with rhinosinusitis-asthma: long-term outcomes. Stevenson DD, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):751–8

Drug allergy: identification and characterization of IgE-reactivities to aspirin and related compounds. Zhu DX, et al. **J Investig Allergol Clin Immunol** 1997 May–Jun; 7(3):160–8

METABOLISM

The potential of aspirin in prodrug synthesis: a new potential delivery system of AZT and FLT. Zahran MA, et al. **Arch Pharm (Weinheim)** 1996 Aug–Sep;329(8–9):417–20

Effect of portal vein ligation and silymarin treatment on aspirin metabolism and disposition in rats. Favari L, et al. **Biopharm Drug Dispos** 1997 Jan;18(1):53–64

Drug toxicity and surveillance in children. Choonara I, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):407–10 (47 ref.)

Laser induced resonance energy transfer--a novel approach towards achieving high sensitivity in capillary electrophoresis. I. Clinical diagnostic application. Petersen JR, et al. **J Chromatogr A** 1996 Sep 13;744(1–2):37–44

The disposition of aspirin and salicylic acid in the isolated perfused rat liver: the effect of normal and retrograde flow on availability and mean transit time. Mellick GD, et al. **J Pharm Pharmacol** 1996 Jul;48(7):738–43

PHARMACOKINETICS

Evidence for increased oxidative stress in alcohol-dependent patients provided by quantification of in vivo salicylate hydroxylation products. Thome J, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):82–5

Comparative bioavailability of aspirin and paracetamol following single dose administration of soluble and plain tablets. Muir N, et al. **Curr Med Res Opin** 1997; 13(9):491–500

Effect of Tamarindus indica L. on the bioavailability of aspirin in healthy human volunteers. Mustapha A, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jul–Sep;21(3):223–6

Lack of influence of glycine on the single dose pharmacokinetics of acetylsalicylic acid in man. Schurer M, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):282–7

Variability in the pharmacokinetics and pharmacodynamics of low dose aspirin in healthy male volunteers. Benedek IH, et al. **J Clin Pharmacol** 1995 Dec;35(12):1181–6

Combined dipyridamole and aspirin pellet formulation for improved oral drug delivery. Part 2: In-vivo evaluation and stability. Murtagh PW, et al. **J Microencapsul** 1996 Jul–Aug;13(4):395–405

Suppression of human colorectal mucosal prostaglandins: determining the lowest effective aspirin dose. Ruffin MT 4th, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1152–60

Development and validation of a dissolution method for warfarin sodium and aspirin combination tablets. McCormick TJ, et al. **J Pharm Biomed Anal** 1997 Aug; 15(12):1881–91

Fluorimetric determination of tissue distribution and differences between the activity of aspirin esterases I and II in mice and rats. Benedito MA. **J Pharm Pharmacol** 1997 Mar;49(3):273–6

Pharmacokinetics of a new nitroderivative of acetylsalicylic acid after a single dose in rats. Tagliaro F, et al. **Life Sci** 1997;60(2):101–6

Gastrointestinal permeability following aspirin intake and prolonged running. Ryan AJ, et al. **Med Sci Sports Exerc** 1996 Jun;28(6):698–705

Discrepancy among dissolution rates of commercial tables as a function of the dissolution method.Part 7: Aspirin. Ammar HA, et al. **Pharmazie** 1997 Feb;52(2):145–9

PHARMACOLOGY

Aspirin-like drugs, besides a cyclooxygenase inhibitor, what's more in the mode of analgesic action? [editorial; comment] Lui PW. **Acta Anaesthesiol Sin** 1996 Jun;34(2):i–ii. Comment on: Acta Anaesthesiol Sin 1996 Jun;34(2):81–8.

Stimulation of newborn-like hemoglobin synthesis in adult rats by recombinant human erythropoietin and suppression by aspirin. Abdelrahman HG, et al. **Acta Haematol** 1996; 96(4):214–20

Vitamins and analgesics in the prevention of collagen ageing. Malik NS, et al. **Age Ageing** 1996 Jul;25(4):279–84

Drug actions in preeclampsia: aspirin, but not magnesium chloride or dihydralazine, differentially inhibits cultured human trophoblast release of thromboxane and prostacyclin without affecting angiotensin II, endothelin-1, or leukotriene B4 secretion. Cervar M, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):66–72

Aspirin induces increased expression of both prostaglandin H synthase-1 and prostaglandin H synthase-2 in cultured human placental trophoblast. Johnson RD, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):78–85

Regional differentiation in the rat aorta: effects of cyclooxygenase inhibitors. Schachter D, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1478–83

Aspirin-interleukin-3 interrelationships in patients with anti-phospholipid syndrome. Fishman P, et al. **Am J Reprod Immunol** 1996 Feb;35(2):80–4

A clinical trial for the treatment of antiphospholipid antibody-associated recurrent pregnancy loss with lower dose heparin and aspirin. Kutteh WH, et al. **Am J Reprod Immunol** 1996 Apr;35(4):402–7

Cyclo-oxygenase and colon cancer: clues to the aspirin effect? Gustafson-Svärd C, et al. **Ann Med** 1997 Jun; 29(3):247–52 (68 ref.)

Effects of aspirin on platelet aggregation in smokers and nonsmokers. Chant C, et al. **Ann Pharmacother** 1997 Mar; 31(3):290–3

Inhibition of the growth of 12V-ras-transformed rat fibroblasts by acetylsalicylic acid correlates with inhibition of NF-kappa B. Ljungdahl S, et al. **Anticancer Drugs** 1997 Jan;8(1):62–6

Effect of acetylsalicylic acid, paracetamol, caffeine and a combination of these substances on the renal prostaglandin E2, 6-keto-prostaglandin F1 alpha, water, creatinine and electrolyte excretion of the rat. Engelhardt G. **Arzneimittelforschung** 1996 May;46(5):509–12

Effects of acetylsalicylic acid, paracetamol and caffeine and a combination of these substances on kidney glutathione levels. Engelhardt G, et al. **Arzneimittelforschung** 1996 May;46(5):513–8

Effects of aspirin and garlic on cyclooxygenase-induced chemiluminescence in human term placenta. Das I, et al. **Biochem Soc Trans** 1997 Feb;25(1):99S

Detection of an Fe2+-protoporphyrin-IX intermediate during aspirin-treated prostaglandin H2 synthase II catalysis of arachidonic acid to 15-HETE. Tang MS, et al. **Biochemistry** 1997 Jun 17;36(24):7527–34

Analysis of hydroperoxide-induced tyrosyl radicals and lipoxygenase activity in aspirin-treated human prostaglandin H synthase-2. Xiao G, et al. **Biochemistry** 1997 Feb 18;36(7):1836–45

Uncoupling effects of diclofenac and aspirin in the perfused liver and isolated hepatic mitochondria of rat. Petrescu I, et al. **Biochim Biophys Acta** 1997 Feb 15;1318(3):385–94

The effect of acetylsalicylic acid on fibrin gel lysis by tissue plasminogen activator. Williams S, et al. **Blood Coagul Fibrinolysis** 1995 Dec;6(8):718–25

Effect of captopril on prostacyclin and nitric oxide formation in healthy human subjects: interaction with low dose acetylsalicylic acid. Böger RH, et al. **Br J Clin Pharmacol** 1996 Dec;42(6):721–7

A comparison of the effects of aspirin on bleeding time measured using the Simplate method and closure time measured using the PFA-100, in healthy volunteers. Marshall PW, et al. **Br J Clin Pharmacol** 1997 Aug; 44(2):151–5

Chemopreventive efficacies of aspirin and sulindac against lung tumorigenesis in A/J mice. Duperron C, et al. **Carcinogenesis** 1997 May;18(5):1001–6

Thromboxane A2 receptor density increases during chronic exposure to thromboxane A2 receptor antagonists after porcine carotid bypass. Brothers TE, et al. **Cardiovasc Surg** 1997 Feb;5(1):92–8

Aspirin suppresses 1,2-dimethylhydrazine-induced alteration of proliferative parameters in rat colonic crypts. Barnes CJ, et al. **Cell Prolif** 1996 Aug;29(8):467–73

Potentiation of heat stress-induced hsp70 expression in vivo by aspirin. Fawcett TW, et al. **Cell Stress Chaperones** 1997 Jun;2(2):104–9

Effect of acetylsalicylic acid on pulmonary gas exchange in patients with severe pneumonia: a pilot study. Ferrer M, et al. **Chest** 1997 Apr;111(4):1094–100

Both dietary fish-oil supplementation and aspirin fail to

inhibit atherosclerosis in long-term vein bypass grafts in moderately hypercholesterolemic nonhuman primates. Boerboom LE, et al. **Circulation** 1997 Aug 5;96(3):968–74

Differential suppression of thromboxane biosynthesis by indobufen and aspirin in patients with unstable angina. Cipollone F, et al. **Circulation** 1997 Aug 19;96(4):1109–16

Improvement of alveolar-capillary membrane diffusing capacity with enalapril in chronic heart failure and counteracting effect of aspirin. Guazzi M, et al. **Circulation** 1997 Apr 1;95(7):1930–6

Aspirin-stimulated nitric oxide production by neutrophils after acute myocardial ischemia in rabbits. López-Farré A, et al. **Circulation** 1996 Jul 1;94(1):83–7

Effects of GP IIb/IIIa receptor monoclonal antibody (7E3), heparin, and aspirin in an ex vivo canine arteriovenous shunt model of stent thrombosis. Makkar RR, et al. **Circulation** 1997 Feb 18;95(4):1015–21

Simply read: erythrocytes modulate platelet function. Should we rethink the way we give aspirin? [editorial; comment] Rocca B, et al. **Circulation** 1997 Jan 7;95(1):11–3. Comment on: Circulation 1997 Jan 7;95(1):63–8.

Prothrombotic effects of erythrocytes on platelet reactivity. Reduction by aspirin [see comments] Santos MT, et al. **Circulation** 1997 Jan 7;95(1):63–8. Comment in: Circulation 1997 Jan 7;95(1):11–3.

Butyrate, aspirin and colorectal cancer [see comments] Csordas A. **Eur J Cancer Prev** 1996 Aug;5(4):221–31 (68 ref.). Comment in: Eur J Cancer Prev 1996 Aug;5(4):219–20.

Red blood cell aggregability is increased by aspirin and flow stress, whereas dipyridamole induces cell shape alterations: measurements by digital image analysis. Bozzo J, et al. **Eur J Clin Invest** 1996 Sep;26(9):747–54

Effects of single oral doses of lysine clonixinate and acetylsalicylic acid on platelet functions in man. Pallapies D, et al. **Eur J Clin Pharmacol** 1996;49(5):351–4

Effects of acetysal, dexamethasone and their combination on drug metabolizing enzyme systems in rat liver microsomes. Tantcheva LP, et al. **Eur J Drug Metab Pharmacokinet** 1995 Oct-Dec;20(4):281–6

Nitric oxide reverses aspirin antagonism of t-PA thrombolysis in a rabbit model of thromboembolic stroke. Bednar MM, et al. **Exp Neurol** 1997 Aug;146(2):513–7

Aspirin inhibits expression of the interleukin-1beta-inducible group II phospholipase A2. Vervoordeldonk MJ, et al. **FEBS Lett** 1996 Nov 11;397(1):108–12

Aspirin inhibits both lipid peroxides and thromboxane in preeclamptic placentas. Wang Y, et al. **Free Radic Biol Med** 1995 Mar;18(3):585–91

The direct effect of hepatic peroxisome proliferators on rat Leydig cell function in vitro. Liu RC, et al. **Fundam Appl Toxicol** 1996 Mar;30(1):102–8

Combination of aspirin and metoclopramide produces a synergistic antithrombotic effect in a canine model of coronary artery thrombosis. Duval N, et al. **Fundam Clin Pharmacol** 1997;11(1):57–62

Aspirin changes the secretion rate and amino acid composition of human small intestinal mucin in subjects with ileal conduits. Roberton AM, et al. **Glycoconj J** 1996 Oct;13(5):781–9

Time-dependent effects of low-dose aspirin administration on blood pressure in pregnant women. Hermida RC, et al. **Hypertension** 1997 Sep;30(3 Pt 2):589–95

Influence of pentoxifylline and dispirin on aggregation and deformability of erythrocytes under in vitro conditions. Singh M, et al. **Indian J Biochem Biophys** 1996 Jun; 33(3):199–205

Induction of cytokines and ICAM-1 by proinflammatory cytokines in primary rheumatoid synovial fibroblasts and inhibition by N-acetyl-L-cysteine and aspirin. Sakurada S, et al. **Int Immunol** 1996 Oct;8(10):1483–93

The efficacy and potency of antiplatelet activity of ticlopidine is increased by aspirin. Splawinska B, et al. **Int J Clin Pharmacol Ther** 1996 Aug;34(8):352–6

Comparison of the effects of diltiazem and aspirin on platelet aggregation in cats. Behrend EN, et al. **J Am Anim Hosp Assoc** 1996 Jan-Feb;32(1):11–8

Inhibition of activator protein 1 activity and neoplastic transformation by aspirin. Dong Z, et al. **J Biol Chem** 1997 Apr 11;272(15):9962–70

Aspirin and NSAID use in older women: effect on bone mineral density and fracture risk. Study of Osteoporotic Fractures Research Group. Bauer DC, et al. **J Bone Miner Res** 1996 Jan;11(1):29–35

Dietary (n-3) and (n-6) polyunsaturates and acetylsalicylic acid alter ex vivo PGE2 biosynthesis, tissue IGF-I levels, and bone morphometry in chicks. Watkins BA, et al. **J Bone Miner Res** 1996 Sep;11(9):1321–32

Aspirin inhibits vasopressin-induced hypothalamic-pituitary-adrenal activity in normal humans. Nye EJ, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):812–7

Interaction of meloxicam with cimetidine, Maalox, or aspirin. Busch U, et al. **J Clin Pharmacol** 1996 Jan;36(1):79–84

Aspirin-triggered 15-epi-lipoxin A4 (LXA4) and LXA4 stable analogues are potent inhibitors of acute inflammation: evidence for anti-inflammatory receptors. Takano T, et al. **J Exp Med** 1997 May 5;185(9):1693–704

Aspirin does not prevent the attenuation of myocardial stunning by the ACE inhibitor ramiprilat. Rose J, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):603–13

Pentoxifylline and acetylsalicylic acid in a pig random skin-flap model. Pratt MF, et al. **J Otolaryngol** 1996 Dec; 25(6):393–8

Inhibition of DNA synthesis by aspirin in Swiss 3T3 fibroblasts. Castaño E, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):366–72

Effect of aspirin plus dipyridamole on the retinal vascular pattern in experimental diabetes mellitus. De la Cruz JP, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):454–9

Aspirin and nonsteroidal antiinflammatory drug use in elderly women: effects on a marker of bone resorption. The Study of Osteoporotic Fractures Research Group. Lane NE, et al. **J Rheumatol** 1997 Jun;24(6):1132–6

Aspirin enhances platelet-derived growth factor-induced vascular smooth muscle cell proliferation. Harvey R, et al. **J Vasc Surg** 1997 Apr;25(4):689–95

The pharmacokinetics of salicylate in dairy cattle are not altered by simultaneous intravenous ceftiofur sodium and DL-lysine-acetyl salicylate (aspirin). Whittem T, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):104–8

Effect of acetylsalicylic acid on metabolism and contractility in the ischemic reperfused heart. Kawabata H, et al. **Jpn Circ J** 1996 Dec;60(12):961–71

Oral acetylsalicylic acid induces biliary cholesterol secretion in the rat. Prigge WF, et al. **Lipids** 1997 Jul;32(7):753–8

Aspirin-triggered lipoxins (15-epi-LX) are generated by the human lung adenocarcinoma cell line (A549)-neutrophil interactions and are potent inhibitors of cell proliferation. Clària J, et al. **Mol Med** 1996 Sep;2(5):583–96

Effects of aspirin on nitric oxide formation and de novo protein synthesis by RINm5F cells and rat islets. Kwon G, et al. **Mol Pharmacol** 1997 Sep;52(3):398–405

Altered sensitivity of aspirin-acetylated prostaglandin G/H synthase-2 to inhibition by nonsteroidal anti-inflammatory drugs. Mancini JA, et al. **Mol Pharmacol** 1997 Jan; 51(1):52–60

Aspirin inhibits tumor necrosis factoralpha gene expression in murine tissue macrophages. Shackelford RE, et al. **Mol Pharmacol** 1997 Sep;52(3):421–9

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Cahill MR, et al. **N Engl J Med** 1997 Aug 7;337(6):422–3; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.

Janus faces of NF-kappa B: neurodestruction versus neuroprotection [news] Lipton SA. **Nat Med** 1997 Jan; 3(1):20–2

Aspirin promotes hepatic triacylglycerol accumulation in essential fatty acid-deficient Japanese quail. Murai A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):689–92

Functional stability of hippocampal slices after treatment with cyclooxygenase inhibitors. Pakhotin PI, et al. **Neuroreport** 1997 May 6;8(7):1755–9

Influence of aspirin on the contingent negative wave in healthy subjects. Vein AM, et al. **Neurosci Behav Physiol** 1996 Sep-Dec;26(5):489–91

The effect of oral antiplatelet agents on tissue plasminogen activator-mediated thrombolysis in a rabbit model of thromboembolic stroke. Bednar MM, et al. **Neurosurgery** 1996 Aug;39(2):352–9

Changes in formalin-evoked spinal Fos expression and nociceptive behaviour after oral administration of Bufferin A (aspirin) and L-5409709 (ibuprofen + caffeine + paracetamol). Carrive P, et al. **Pain** 1997 Apr; 70(2-3):253–66

Intimal injury in a transiently occluded coronary artery increases myocardial necrosis. Effect of aspirin. Barrabés JA, et al. **Pflugers Arch** 1996 Aug;432(4):663–70

Effects of meloxicam compared to acetylsalicylic acid in human articular chondrocytes. Bassleer C, et al. **Pharmacology** 1997 Jan;54(1):49–56

Serotonin and opiate involvement in the antinociceptive effect of acetylsalicylic acid. Pini LA, et al. **Pharmacology** 1997 Feb;54(2):84–91

Leukocyte lipid body formation and eicosanoid generation: cyclooxygenase-independent inhibition by aspirin. Bozza PT, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):11091–6

Dose-related effects of low dose aspirin on hemostasis parameters and prostacyclin/thromboxane ratios in late pregnancy. Martin C, et al. **Prostaglandins** 1996 May; 51(5):321–30

Lipoxins and novel aspirin-triggered 15-epi-lipoxins (ATL): a jungle of cell-cell interactions or a therapeutic opportunity? Serhan CN. **Prostaglandins** 1997 Feb; 53(2):107–37 (119 ref.)

Expression of recombinant human cyclooxygenase isoenzymes in transfected COS-7 cells in vitro and inhibition by tenoxicam, indomethacin and aspirin. Lora M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 May;56(5):361–7

Neuroprotection by aspirin and sodium salicylate through blockade of NF-kappaB activation. Grilli M, et al. **Science** 1996 Nov 22;274(5291):1383–5

Mechanism of action of aspirin-like drugs. Vane JR, et al. **Semin Arthritis Rheum** 1997 Jun;26(6 Suppl 1):2–10 (78 ref.)

The antiaggregating and antithrombotic activity of ticlopidine is potentiated by aspirin in the rat. Herbert JM, et al. **Thromb Haemost** 1996 Jul;76(1):94–8

Acetylsalicylic acid and sodium salicylate inhibit LPS-induced NF-kappa B/c-Rel nuclear translocation, and synthesis of tissue factor (TF) and tumor necrosis factor alfa (TNF-alpha) in human monocytes. Osnes LT, et al. **Thromb Haemost** 1996 Dec;76(6):970–6

Red wine, aspirin and platelet function [letter] Rotondo S, et al. **Thromb Haemost** 1996 Nov;76(5):818–9

Aspirin fails to prevent experimental arterial thrombosis induced by oxygen free radicals. Belougne E, et al. **Thromb Res** 1996 Nov 1;84(3):207–12

Aspirin delays thrombin generation in vitro through interaction with platelet phospholipids [letter; comment] Musial J, et al. **Thromb Res** 1997 Feb 15;85(4):367–8. Comment on: Thromb Res 1996 Aug 15;83(4):329–38.

Is platelet phospholipid-dependent thrombin generation altered by acute myocardial infarction or aspirin? [see comments] Rota S, et al. **Thromb Res** 1996 Aug 15; 83(4):329–38. Comment in: Thromb Res 1997 Feb 15;85(4):367–8.

Transcriptional induction of multiple cytokines by human respiratory syncytial virus requires activation of NF-kappa B and is inhibited by sodium salicylate and aspirin. Bitko V, et al. **Virology** 1997 Jun 9;232(2):369–78

[The relationship between resorption and the morphological changes in the gastric mucosa of rats after acute and chronic exposures to acetylsalicylic acid] Tsaneva M, et al. **Eksp Med Morfol** 1994;32(3-4):69–79 (Eng. Abstr.) **(Bul)**

[Effects of aspirin and nifedipine alone or in combination on hemodynamics in anesthetized dogs] Song YM, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):72–4 (Eng. Abstr.) **(Chi)**

[The effect of Val'kofen tablets for children on the function of the gastrointestinal tract and liver in an experiment] Shapovalova VO. **Fiziol Zh** 1995 Sep-Dec;41(5-6):111–6 (Eng. Abstr.) **(Ukr)**

POISONING

The risk of severe salicylate poisoning following the ingestion of topical medicaments or aspirin. Chan TY. **Postgrad Med J** 1996 Feb;72(844):109–12

[Successful therapy of salicylate poisoning using glycine and activated charcoal] Mühlebach S, et al. **Schweiz Med Wochenschr** 1996 Dec 7;126(49):2127–9 (Eng. Abstr.) **(Ger)**

STANDARDS

Total organic carbon method for aspirin cleaning validation. Holmes AJ, et al. **PDA J Pharm Sci Technol** 1997 Jul-Aug; 51(4):149–52

SUPPLY & DISTRIBUTION

Acetylsalicylic-acid-containing drugs and nonsteroidal anti-inflammatory drugs available in Canada. Brigden M, et al. **Can Med Assoc J** 1997 Apr 1;156(7):1025–8 (30 ref.)

THERAPEUTIC USE

Acetylsalicylic acid is unlikely to beneficially interfere with radiation-induced vasculopathy [letter; comment] Sinzinger H, et al. **Acta Oncol** 1997;36(3):341. Comment on: Acta Oncol 1995;34(1):126.

Atrial fibrillation and stroke prevention in the community. O'Connell JE, et al. **Age Ageing** 1996 Jul;25(4):307–9

After peripheral angioplasty should we prescribe both aspirin and Persantin (dipyridamole), or one of them, and how much? Regan JD. **AJR Am J Roentgenol** 1997 Mar; 168(3):839–40

Treatment of acute myocardial infarction today. Maggioni AP, et al. **Am Heart J** 1997 Aug;134(2 Pt 2):S9–14 (29 ref.)

Comparison of aspirin alone versus aspirin plus ticlopidine after coronary artery stenting. Goods CM, et al. **Am J Cardiol** 1996 Nov 1;78(9):1042–4

Effect of aspirin on mortality in women with symptomatic or silent myocardial ischemia. Israeli BIP Study Group. Harpaz D, et al. **Am J Cardiol** 1996 Dec 1;78(11):1215–9

Comparison of heparin therapy for < or = 48 hours to > 48 hours in unstable angina pectoris. Klein LW, et al. **Am J Cardiol** 1997 Feb 1;79(3):259–63

Reactivation of the coagulation system: rationale for long-term antithrombotic treatment. Kontny F. **Am J Cardiol** 1997 Sep 4;80(5A):55E–60E (63 ref.)

Pretreatment with aspirin and ticlopidine confers lower thrombogenic potential of radiofrequency catheter ablation. Manolis AS, et al. **Am J Cardiol** 1997 Feb 15;79(4):494–7

Interaction between enalapril and aspirin on mortality after acute myocardial infarction: subgroup analysis of the Cooperative New Scandinavian Enalapril Survival Study II (CONSENSUS II). Nguyen KN, et al. **Am J Cardiol** 1997 Jan 15;79(2):115–9

Primary thrombocythemia and pregnancy: treatment and outcome in fifteen cases. Pagliaro P, et al. **Am J Hematol** 1996 Sep;53(1):6–10

Effects of antiplatelet drugs on dialysis-associated platelet deposition in polytetrafluoroethylene grafts. Windus DW, et al. **Am J Kidney Dis** 1997 Apr;29(4):560–4

Aspirin therapy in nonarteritic anterior ischemic optic neuropathy. Beck RW, et al. **Am J Ophthalmol** 1997 Feb; 123(2):212–7

Aspirin does not increase allogeneic blood transfusion in reoperative coronary artery surgery. Tuman KJ, et al. **Anesth Analg** 1996 Dec;83(6):1178–84

A comparison between aspirin and pentoxifylline in relieving claudication due to peripheral vascular disease in the

elderly. Ciocon JO, et al. **Angiology** 1997 Mar;48(3):237–40
Aspirin after myocardial infarction in the elderly [letter; comment] Ring BL. **Ann Intern Med** 1996 Dec 1; 125(11):938. Comment on: Ann Intern Med 1996 Feb 1;124(3):292–8.
Emergency department use of aspirin in patients with possible acute myocardial infarction. Saketkhou BB, et al. **Ann Intern Med** 1997 Jul 15;127(2):126–9
A technique to investigate microvascular mural thrombus formation in arteries and veins: II. Effects of aspirin, heparin, r-hirudin, and G-4120. Stockmans F, et al. **Ann Plast Surg** 1997 Jan;38(1):63–8
Anticoagulation in children with mechanical valve prostheses. Bradley SM, et al. **Ann Thorac Surg** 1997 Jul; 64(1):30–4; discussion 35–6
Aspirin in the treatment and prevention of cardiovascular disease. Hennekens CH. **Annu Rev Public Health** 1997; 18:37–49 (30 ref.)
Tufted angioma associated with platelet trapping syndrome: response to aspirin. Léauté-Labrèze C, et al. **Arch Dermatol** 1997 Sep;133(9):1077–9 (12 ref.)
The efficacy of aspirin in patients with atrial fibrillation. Analysis of pooled data from 3 randomized trials. The Atrial Fibrillation Investigators. **Arch Intern Med** 1997 Jun 9;157(11):1237–40
Protection by indomethacin and aspirin against genotoxicity of ochratoxin A, particularly in the urinary bladder and kidney. Obrecht-Pflumio S, et al. **Arch Toxicol** 1996; 70(3–4):244–8
Treatment of an acute bacterial infection with a combination of acetylsalicylic acid/ibuprofen and interferon gamma. Hockertz S, et al. **Arzneimittelforschung** 1996 Oct; 46(10):1012–5
Prevention of preeclampsia with heparin and antiplatelet drugs in women with renal disease. North RA, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):357–62
Efficacy of low dose prednisone plus aspirin in preventing spontaneous abortions and/or fetal deaths due to antiphospholipid antibodies: results of a pilot study [letter] Mazzucconi MG, et al. **Autoimmunity** 1996;24(2):123–5
Heparin as an adjuvant to thrombolytic therapy in acute myocardial infarction. Metz BK, et al. **Biomed Pharmacother** 1996;50(6–7):243–53 (33 ref.)
A comparison of aspirin and anticoagulation following thrombolysis for myocardial infarction (the AFTER study): a multicentre unblinded randomised clinical trial. Julian DG, et al. **BMJ** 1996 Dec 7;313(7070):1429–31
Randomised controlled trial of aspirin and aspirin plus heparin in pregnant women with recurrent miscarriage associated with phospholipid antibodies (or antiphospholipid antibodies) [see comments] Rai R, et al. **BMJ** 1997 Jan 25;314(7076):253–7. Comment in: BMJ 1997 Jan 25;314(7076):244. Comment in: BMJ 1997 Aug 9;315(7104):372. Comment in: BMJ 1997 Aug 9;315(7104):372; discussion 373. Comment in: BMJ 1997 Aug 9;315(7104):372–3; discussion 373.
Aspirin and colorectal cancer. La Vecchia C, et al. **Br J Cancer** 1997;76(5):675–7
Who needs antiplatelet therapy? [see comments] Moher M, et al. **Br J Gen Pract** 1996 Jun;46(407):367–70 (24 ref.). Comment in: Br J Gen Pract 1996 Aug;46(409):494–5.
Prevention and treatment of thrombotic complications in essential thrombocythaemia: efficacy and safety of aspirin. van Genderen PJ, et al. **Br J Haematol** 1997 Apr; 97(1):179–84
Multicentre trials in obstetrics and gynaecology. Smaller explanatory trials are required [letter; comment] Morris JM. **Br J Obstet Gynaecol** 1996 Dec;103(12):1271–2. Comment on: Br J Obstet Gynaecol 1996 Jul;103(7):599–602.
Acetylsalicylic acid and vitamin E in prevention of arterial thrombosis. Polasek J. **Can J Cardiol** 1997 May;13(5):533–5
The case of low-dose aspirin for the prevention of myocardial infarction: but how low is low? Förster W, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):727–34 (51 ref.)
Unstable coronary artery disease: need for long-term antithrombotic treatment? Aspirin alone may not be the ideal antithrombotic strategy, but that's what we have adequate trial data for. Patrono C. **Cardiovasc Res** 1997 Feb;33(2):295–6
Unstable coronary artery disease--need for long-term antithrombotic treatment. Aspirin alone is not sufficient, I would associate an anticoagulant. Wallentin L. **Cardiovasc Res** 1997 Feb;33(2):292–4
Use of aspirin in ischaemic heart disease [letter] Constantine GR, et al. **Ceylon Med J** 1996 Dec;41(4):167–8
Results of a consecutive series of patients receiving only antiplatelet therapy after optimized stent implantation. Comparison of aspirin alone versus combined ticlopidine and aspirin therapy [see comments] Albiero R, et al. **Circulation** 1997 Mar 4;95(5):1145–56. Comment in: Circulation 1997 Mar 4;95(5):1098–100.
Why aspirin cannot prevent arterial thrombosis [letter; comment] Altman R, et al. **Circulation** 1996 Dec 1; 94(11):3002–3. Comment on: Circulation 1996 Mar 15;93(6):1201–5.
Stent thrombosis. Closing in on the best preventive treatment [editorial; comment] Baim DS, et al. **Circulation** 1997 Mar 4;95(5):1098–100 (14 ref.). Comment on: Circulation 1997 Mar 4;95(5):1145–56.
Combined ticlopidine and aspirin versus aspirin therapy alone after stent implantation [letter; comment] Lowe H, et al. **Circulation** 1996 Dec 1;94(11):2993–4. Comment on: Circulation 1996 Jan 15;93(2):215–22.
Modulation of oxidant stress in vivo in chronic cigarette smokers. Reilly M, et al. **Circulation** 1996 Jul 1;94(1):19–25
Major benefit from antiplatelet therapy for patients at high risk for adverse cardiac events after coronary Palmaz-Schatz stent placement: analysis of a prospective risk stratification protocol in the Intracoronary Stenting and Antithrombotic Regimen (ISAR) trial. Schühlen H, et al. **Circulation** 1997 Apr 15;95(8):2015–21
Refining the treatment of women with unstable angina--a randomized, double-blind, comparative safety and efficacy evaluation of Integrelin versus aspirin in the management of unstable angina. Goldschmidt-Clermont PJ, et al. **Clin Cardiol** 1996 Nov;19(11):869–74
Low incidence of colorectal cancer in patients with rheumatoid arthritis. Kauppi M, et al. **Clin Exp Rheumatol** 1996 Sep-Oct;14(5):551–3
Angiographic studies demonstrating the need for conjunctive anticoagulation. Bleich SD. **Coron Artery Dis** 1996 Jul; 7(7):516–21 (29 ref.)
Intraoperative and postoperative bleeding problems in patients taking warfarin, aspirin, and nonsteroidal antiinflammatory agents. A prospective study. Billingsley EM, et al. **Dermatol Surg** 1997 May;23(5):381–3; discussion 384–5
Is low-dose aspirin a useful adjuvant therapy in the treatment of NIDDM? [letter] Mubarak AA. **Diabet Med** 1997 May; 14(5):405–6
Effects of aspirin or basic amino acids on collagen cross-links and complications in NIDDM. Contreras I, et al. **Diabetes Care** 1997 May;20(5):832–5
Prevention of vascular events in diabetes mellitus: which "antithrombotic" therapy? [comment] [see comments] Ceriello A, et al. **Diabetologia** 1996 Nov;39(11):1405–6. Comment on: Diabetologia 1996 Nov;39(11):1402–4. Comment in: Diabetologia 1996 Nov;39(11):1407–8.
Diabetes mellitus and peripheral vascular disease: is aspirin effective in preventing vascular events? [see comments] Cimminiello C, et al. **Diabetologia** 1996 Nov;39(11):1402–4 (26 ref.). Comment in: Diabetologia 1996 Nov;39(11):1405–6. Comment in: Diabetologia 1996 Nov;39(11):1407–8.
Aspirin therapy in diabetes mellitus [letter] Colwell JA. **Diabetologia** 1997 Jul;40(7):867
Assessing the evidence on aspirin in diabetes mellitus. Gemini or Libra; lumping or splitting; surrogate or hard; low or high; interventionist or nihilist [comment] Yudkin JS. **Diabetologia** 1996 Nov;39(11):1407–8. Comment on: Diabetologia 1996 Nov;39(11):1402–4. Comment on: Diabetologia 1996 Nov;39(11):1405–6.
Nimesulide in the treatment of patients intolerant of aspirin and other NSAIDs. Senna GE, et al. **Drug Saf** 1996 Feb; 14(2):94–103 (73 ref.)
Recognition and treatment of unstable angina. Brunelli C, et al. **Drugs** 1996 Aug;52(2):196–208 (80 ref.)
Use of aspirin in preeclampsia [editorial; comment] Ogola ES. **East Afr Med J** 1995 Nov;72(11):689. Comment on: East Afr Med J 1995 Nov;72(11):690–3.
Low dose aspirin in prevention of pregnancy-induced hypertension in primigravidae at the Muhimbili Medical Center, Dar es Salaam [see comments] Ramaiya C, et al. **East Afr Med J** 1995 Nov;72(11):690–3. Comment in: East Afr Med J 1995 Nov;72(11):689.
Acetylsalicylic acid may protect the patient by increasing fibrin gel porosity. Is withdrawing of treatment harmful to the patient? Fatah K, et al. **Eur Heart J** 1996 Sep; 17(9):1362–6
Combined antiplatelet therapy with ticlopidine and aspirin. A simplified approach to intracoronary stent management [see comments] Lablanche JM, et al. **Eur Heart J** 1996 Sep;17(9):1373–80. Comment in: Eur Heart J 1996 Sep;;17(9):1296–8.
Aspirin, NSAIDS and human cancer [editorial; comment] Hill MJ. **Eur J Cancer Prev** 1996 Aug;5(4):219–20. Comment on: Eur J Cancer Prev 1996 Aug;5(4):221–31.
Aspirin chemoprevention of colorectal and oesophageal cancers. An overview of the literature and homeopathic explanation. Morgan G. **Eur J Cancer Prev** 1996 Dec; 5(6):439–43 (41 ref.)
Evaluation of ibuprofen versus aspirin and paracetamol on efficacy and comfort in children with fever. Autret E, et al. **Eur J Clin Pharmacol** 1997;51(5):367–71
Total protein content of human gallbladder bile: relation to cholesterol gallstone disease and effects of treatment with bile acids and aspirin. Sahlin S. **Eur J Surg** 1996 Jun; 162(6):463–9
NSAID use and decreased risk of gastrointestinal cancers. Thun MJ. **Gastroenterol Clin North Am** 1996 Jun; 25(2):333–48 (71 ref.)
Platelet angiotensin II receptor status during pregnancy in Chinese women at high-risk of developing pregnancy-induced hypertension. Rogers MS, et al. **Gynecol Obstet Invest** 1996;42(2):88–94
Ticlopidine and aspirin interactions. Gregorini L, et al. **Heart** 1997 Jan;77(1):11–2
Changing from intensive anticoagulation to treatment with aspirin alone for coronary stents: the experience of one centre in the United Kingdom. Stephens NG, et al. **Heart** 1996 Sep;76(3):238–42
Effect of antiphospholipid antibodies in women undergoing in-vitro fertilization: role of heparin and aspirin. Kutteh WH, et al. **Hum Reprod** 1997 Jun;12(6):1171–5
Low-dose aspirin in prevention of miscarriage in women with unexplained or autoimmune related recurrent miscarriage: effect on prostacyclin and thromboxane A2 production. Tulppala M, et al. **Hum Reprod** 1997 Jul; 12(7):1567–72
Aspirin and other nonsteroid anti-inflammatory drugs as cancer-preventive agents. Greenberg ER, et al. **IARC Sci Publ** 1996;(139):91–8 (29 ref.)
Aspirin and other nonsteroidal anti-inflammatory agents in the prevention of colorectal cancer. Sandler RS. **Important Adv Oncol** 1996;:123–37 (77 ref.)
The effects of platelet inhibitors on platelet uptake and restenosis after femoral angioplasty. Horrocks M, et al. **Int Angiol** 1997 Jun;16(2):101–6
Surgery for left main spasm. Is it indicated? Ng WL, et al. **Int J Cardiol** 1996 Jun;54(3):213–6
Use of early aspirin in suspected acute myocardial infarction by General Practitioners in Sri Lanka. Seneviratne SL, et al. **Int J Cardiol** 1997 Jan 31;58(2):171–3
European stroke prevention study 2: dipyridamole and acetylsalicylic acid in the secondary prevention of stroke. Forbes CD. **Int J Clin Pract** 1997 Jun;51(4):205–8
The choleretic effect of nonsteroidal anti-inflammatory drugs in total parenteral nutrition-associated cholestasis. Nussinovitch M, et al. **Isr J Med Sci** 1996 Dec; 32(12):1262–4
Aspirin and suspected myocardial infarction: a life-saving treatment we too often forget. Hardern RD. **J Accid Emerg Med** 1995 Dec;12(4):302–3
More uses of drugs [letter] Jauhari J. **J Assoc Physicians India** 1996 May;44(5):360
Prevention of heterotopic ossification after total hip replacement. A prospective, randomised study using acetylsalicylic acid, indomethacin and fractional or single-dose irradiation. Knelles D, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):596–602
Hemostaseologic and hematologic parameters with aspirin and ticlopidine treatment in patients with cerebrovascular disease: a cross-over study. Droste DW, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):591–4
Anticoagulants in acute MI. Santiago T, et al. **J Fam Pract** 1997 Jan;44(1):28–9
Aspirin after thrombolysis for MI. Seaton TL. **J Fam Pract** 1997 Mar;44(3):249–50
Aspirin improves uterine blood flow in the peri-implantation period. Kuo HC, et al. **J Formos Med Assoc** 1997 Apr; 96(4):253–7
Racial differences in the medical treatment of elderly Medicare patients with acute myocardial infarction. Allison JJ, et al. **J Gen Intern Med** 1996 Dec;11(12):736–43
The effect of comorbidity on use of thrombolysis or aspirin in patients with acute myocardial infarction eligible for treatment [see comments] McLaughlin TJ, et al. **J Gen Intern Med** 1997 Jan;12(1):1–6. Comment in: J Gen Intern Med 1997 Jan;12(1):73–4.
Do comorbidities influence the treatment of myocardial infarction? [editorial; comment] Passman R, et al. **J Gen Intern Med** 1997 Jan;12(1):73–4. Comment on: J Gen Intern Med 1997 Jan;12(1):1–6.
Is there any evidence for a protective effect of antithrombotic medication on cognitive function in men at risk of cardiovascular disease? Some preliminary findings. Richards M, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):269–72
Dipyridamole and acetylsalicylic acid in the secondary prevention of stroke [letter] Rosendaal FR, et al. **J Neurol Sci** 1997 Sep 1;150(1):85, 87
Aspirin improves the enhanced erythrocyte aggregability in patients with cerebral infarction. Tanahashi N, et al. **J Neurol Sci** 1996 Jul;139(1):137–40
Second European Stroke Prevention Study (ESPS 2): clinical and pharmacological implications [editorial] Vane JR, et al. **J Neurol Sci** 1997 Feb 12;145(2):123–5
Neonatal outcome in a randomized, controlled trial of low-dose aspirin in high-risk pregnancies. Leslie GI, et al. **J Paediatr Child Health** 1995 Dec;31(6):549–52
The effect of combined treatment with dextran 40 and acetylsalicylic acid on patency in severely traumatized small veins and arteries: an experimental study in the rabbit. Salemark L, et al. **J Reconstr Microsurg** 1996 May; 12(4):221–6
Pneumatic compression or aspirin prophylaxis against thromboembolism in total hip arthroplasty. Lachiewicz PF, et al. **J South Orthop Assoc** 1996 Winter;5(4):272–80
Low-intensity oral anticoagulation plus low-dose aspirin versus high-intensity oral anticoagulation alone: a randomized trial in patients with mechanical prosthetic heart valves. Meschengieser SS, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):910–6
Benefit of heparin plus aspirin vs aspirin alone in unstable angina [letter; comment] Blankfield RP. **JAMA** 1996 Dec 18;276(23):1873–4; discussion 1874. Comment on: JAMA 1996 Sep 11;276(10):811–5.
Benefit of heparin plus aspirin vs aspirin alone in unstable angina [letter; comment] Brophy J. **JAMA** 1996 Dec 18; 276(23):1873; discussion 1874. Comment on: JAMA 1996 Sep 11;276(10):811–5.
Benefit of heparin plus aspirin vs aspirin alone in unstable angina [letter; comment] Collins R, et al. **JAMA** 1996 Dec 18;276(23):1873; discussion 1874. Comment on: JAMA 1996 Sep 11;276(10):811–5.
Aspirin's role in prevention now official [news] Marwick C.

JAMA 1997 Mar 5;277(9):701–2

The International Stroke Trial (IST): a randomised trial of aspirin, subcutaneous heparin, both, or neither among 19435 patients with acute ischaemic stroke. International Stroke Trial Collaborative Group [see comments] **Lancet** 1997 May 31;349(9065):1569–81. Comment in: Lancet 1997 May 31;349(9065):1563.

CAST: randomised placebo–controlled trial of early aspirin use in 20,000 patients with acute ischaemic stroke. CAST (Chinese Acute Stroke Trial) Collaborative Group. **Lancet** 1997 Jun 7;349(9066):1641–9

A randomised, blinded, trial of clopidogrel versus aspirin in patients at risk of ischaemic events (CAPRIE). CAPRIE Steering Committee [see comments] **Lancet** 1996 Nov 16; 348(9038):1329–39. Comment in: Lancet 1997 Feb 1;349(9048):354; discussion 356. Comment in: Lancet 1997 Feb 1;349(9048):354–5; discussion 356. Comment in: Lancet 1997 Feb 1;349(9048):355; discussion 356. Comment in: Lancet 1997 Feb 1;349(9048);355–6. Comment in: Lancet 1997 Mar 15;349(9054):806–7. Comment in: ACP J Club 1997 May–Jun;126(3):59.

CAPRIE trial [letter; comment] [see comments] Barer D. **Lancet** 1997 Feb 1;349(9048):355–6. Comment on: Lancet 1996 Nov 16;348(9038):1329–39. Comment in: Lancet 1997 Mar 15;349(9054):806–7.

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Barer D. **Lancet** 1997 Aug 9;350(9075):440; discussion 443–4

Aspirin versus clopidogrel: the wrong question? [letter; comment] Born GV, et al. **Lancet** 1997 Mar 15; 349(9054):806–7. Comment on: Lancet 1996 Nov 16;348(9038):1329–39. Comment on: Lancet 1997 Feb 1;349(9048):354; discussion 356. Comment on: Lancet 1997 Feb 1;349(9048):355; discussion 356. Comment on: Lancet 1997 Feb 1;349(9048):355–6.

Aspirin or heparin immediately after a stroke? [see comments] Bousser MG. **Lancet** 1997 May 31;349(9065):1564–5. Comment in: Lancet 1997 May 31;349(9065):1563.

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Bradford AP, et al. **Lancet** 1997 Aug 9;350(9075):440–1; discussion 443–4

CAPRIE trial [letter; comment] [see comments] Davie AP, et al. **Lancet** 1997 Feb 1;349(9048):355; discussion 356. Comment on: Lancet 1996 Nov 16;348(9038):1329–39. Comment in: Lancet 1997 Mar 15;349(9054):806–7.

Aspirin for bowel cancer: an old friend finds a new role [news] Featherstone C. **Lancet** 1997 Aug 9;350(9075):418

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Lip GY, et al. **Lancet** 1997 Aug 9;350(9075):442–3; discussion 443–4

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Ricci S, et al. **Lancet** 1997 Aug 9;350(9075):441; discussion 443–4

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Tan LB. **Lancet** 1997 Aug 9;350(9075):443; discussion 443–4

CAPRIE trial [letter; comment] [see comments] Toplak H, et al. **Lancet** 1997 Feb 1;349(9048):354; discussion 356. Comment on: Lancet 1996 Nov 16;348(9038):1329–39. Comment in: Lancet 1997 Mar 15;349(9054):806–7.

CAPRIE trial [letter; comment] Violi F. **Lancet** 1997 Feb 1;349(9048):354; discussion 356. Comment on: Lancet 1996 Nov 16;348(9038):1329–39.

Aspirin in polycythemia vera and essential thrombocythemia: current facts and perspectives. Landolfi R, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:83–6 (22 ref.)

Prevalence of aspirin use to prevent heart disease--Wisconsin, 1991, and Michigan, 1994. **MMWR Morb Mortal Wkly Rep** 1997 Jun 6;46(22):498–502

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Bruno JJ. **N Engl J Med** 1997 Aug 7; 337(6):422; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.

Aspirin, heparin, and fibrinolytic therapy in suspected acute myocardial infarction. Collins R, et al. **N Engl J Med** 1997 Mar 20;336(12):847–60 (97 ref.)

Prednisone and aspirin in women with autoantibodies and unexplained recurrent fetal loss [see comments] Laskin CA, et al. **N Engl J Med** 1997 Jul 17;337(3):148–53. Comment in: N Engl J Med 1997 Jul 17;337(3):197–8.

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Murray WM. **N Engl J Med** 1997 Aug 7;337(6):422; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9. Comment on: N Engl J Med 1997 Apr 3;336(14):1014–6.

Inflammation, aspirin, and the risk of cardiovascular disease in apparently healthy men [see comments] [published erratum appears in N Engl J Med 1997 Jul 31;337(5):356] Ridker PM, et al. **N Engl J Med** 1997 Apr 3;336(14):973–9 . Comment in: N Engl J Med 1997 Apr 3;336(14):1014–6. Comment in: N Engl J Med 1997 Aug 7;337(6):422; discussion 423–4. Comment in: N Engl J Med 1997 Aug 7;337(6):422–3; discussion 423–4. Comment in: N Engl J Med 1997 Aug 7;337(6):423; discussion 423–4.

Asymptomatic circulating cerebral emboli and cerebral blood flow velocity under aspirin and ticlopidine in patients with cerebrovascular disease. Droste DW, et al. **Neurol Res** 1996 Oct;18(5):449–53

Aspirin and heart disease. **Nurse Pract** 1996 Nov;21(11):111–2 (14 ref.)

Inhibition of prostaglandins may be mechanism by which aspirin protects against certain cancers [news] **Oncology (Huntingt)** 1996 Jan;10(1):85

Retinal blood flow increases following short–term aspirin usage in type I diabetics with no or minimal retinopathy. Feke GT, et al. **Ophthalmic Res** 1996;28(2):108–16

Comments on De Benedittis and Lorenzetti: on topical aspirin/diethyl ether for postherpetic neuralgia, PAIN, 65 (1996) 45–51 [letter; comment] Bonicalzi V, et al. **Pain** 1997 Apr;70(2–3):287–9. Comment on: Pain 1996 Apr;65(1):45–51.

Topical aspirin/diethyl ether mixture versus indomethacin and diclofenac/diethyl ether mixtures for acute herpetic neuralgia and postherpetic neuralgia: a double–blind crossover placebo–controlled study [see comments] De Benedittis G, et al. **Pain** 1996 Apr;65(1):45–51. Comment in: Pain 1997 Apr;70(2–3):287–9.

Dose–dependent competitive block by topical acetylsalicylic and salicylic acid of low pH–induced cutaneous pain. Steen KH, et al. **Pain** 1996 Jan;64(1):71–82

Antipyretic effect of parenteral paracetamol (propacetamol) in pediatric oncologic patients: a randomized trial. Reymond D, et al. **Pediatr Hematol Oncol** 1997 Jan–Feb; 14(1):51–7

Current approaches to stable angina. Jackson G. **Practitioner** 1996 Nov;240(1568):642–4, 647–8

Lack of any additional benefit in combining aspirin with iloprost in a canine model of myocardial reperfusion injury. Maulik M, et al. **Prostaglandins** 1997 May;53(5):291–303

Effect of acetylsalicylic acid on radiation and cosmetic results after conservative surgery for early breast cancer: a randomized trial. Olivotto IA, et al. **Radiother Oncol** 1996 Oct;41(1):1–6

Aspirin, non–steroidal anti–inflammatory drugs and protection from colorectal cancer: a review of the epidemiological evidence. Weiss HA, et al. **Scand J Gastroenterol Suppl** 1996;220:137–41 (29 ref.)

Aspirin and stroke [letter; comment] Barner A. **Science** 1997 Feb 28;275(5304):1246–7. Comment on: Science 1996 Dec 20;274(5295):2004–5.

Fraud and ethics charges hit stroke drug trial [news] [see comments] Enserink M. **Science** 1996 Dec 20; 274(5295):2004–5. Comment in: Science 1997 Feb 28;275(5304):1246–7.

US National Survey of Physician Practices for the Secondary and Tertiary Prevention of Ischemic Stroke. Medical therapy in patients with carotid artery stenosis. Goldstein LB, et al. **Stroke** 1996 Sep;27(9):1473–8

Reduced effect of aspirin on thrombus formation at high shear and disturbed laminar blood flow. Barstad RM, et al. **Thromb Haemost** 1996 May;75(5):827–32

Effect of fixed minidose warfarin, conventional dose warfarin and aspirin on INR and prothrombin fragment 1 + 2 in patients with atrial fibrillation. Koefoed BG, et al. **Thromb Haemost** 1997 May;77(5):845–8

Aspirin, vitamin E and heart attack prevention [letter] Polasek J. **Thromb Haemost** 1996 May;75(5):863

Antiplatelet therapy with aspirin in acute ischaemic stroke. Sandercock P. **Thromb Haemost** 1997 Jul;78(1):180–2

Experimental thrombosis model induced by laser beam. Application of aspirin and an extract of Ginkgo biloba: EGb 761. Belougne E, et al. **Thromb Res** 1996 Jun 1; 82(5):453–8

Plasma glycocalicin levels are not elevated in patients with a history of transient ischaemic event and are normal in aspirinated normal volunteers. Huggan PJ, et al. **Thromb Res** 1996 Feb 1;81(3):339–43

Platelets of patients with peripheral arterial disease are hypersensitive to heparin. Reininger CB, et al. **Thromb Res** 1996 Mar 15;81(6):641–9

[Antithrombotic therapy of atrial fibrillation] Chalon S, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1533–42 (47 ref.) (Eng. Abstr.) **(Fre)**

[Aspirin, non–steroidal anti–inflammatory agents and colonic carcinogenesis] Benamouzig R, et al. **Gastroenterol Clin Biol** 1997;21(3):188–96 (129 ref.) **(Fre)**

[Pregnancy in primary antiphospholipid syndrome. Proposal for a common management protocol] el Kouri D, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(8):828–31 (Eng. Abstr.) **(Fre)**

[Aspirin during pregnancy in women at risk of pregnancy–induced hypertension (letter)] Robillard PY, et al. **Presse Med** 1996 Jul 6–13;25(24):1127 **(Fre)**

[Antivitamin K, aspirin: treatments still of significance] Lechat P. **Rev Med Interne** 1997;18 Suppl 2:91s–92s **(Fre)**

[Recent antithrombotic gold standard? (news)] Keil Tu. **Fortschr Med** 1997 Feb 28;115(6):18 **(Ger)**

[Cost–effectiveness analysis of prevention of reinfarction using low–dose acetylsalicylic acid; model calculation] Schädlich PK, et al. **Soz Praventivmed** 1997;42(2):114–20 (Eng. Abstr.) **(Ger)**

[Acetylsalicylic acid after myocardial infarct] Sinzinger H, et al. **Wien Klin Wochenschr Suppl** 1997;2:25–8 (34 ref.) (Eng. Abstr.) **(Ger)**

[Use of aspirin for fever by Russian immigrant children] Ben–Noun L. **Harefuah** 1996 Jun 16;130(12):820–1, 879 (Eng. Abstr.) **(Heb)**

[Clinical studies of the effectiveness of aspirin in the prevention of major cardio–cerebrovascular occurrences] Mariani M, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):423–8 (43 ref.) **(Ita)**

[A biochemiluminescent analysis of the pharmacotherapeutic activity of acetylsalicylic acid in combination with quercetin in a hypoxic syndrome] Luk'ianchuk VD, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):62–4 (Eng. Abstr.) **(Rus)**

[The combined pharmacological correction of oxidative homeostasis in a hypoxic syndrome] Savchenkova LV. **Lik Sprava** 1996 Mar–Apr;(3–4):117–20 (Eng. Abstr.) **(Rus)**

[The use of acetylsalicylic acid in IHD] Lenkovsky F, et al. **Ter Arkh** 1996;68(8):79–83 (66 ref.) **(Rus)**

[A 100 years of aspirin: a drug with a future?] Sánchez García P. **An R Acad Nac Med (Madr)** 1997;114(1):157–63; discussion 164–7 **(Spa)**

[Aspirin: can it prevent colorectal cancer?] Cabeza E, et al. **Gastroenterol Hepatol** 1996 Aug–Sep;19(7):366–73 (37 ref.) **(Spa)**

[Antithrombotic treatment in acute ischemia stroke] Díez–Tejedor E, et al. **Neurologia** 1995 Dec;10 Suppl 2:48–54 (42 ref.) (Eng. Abstr.) **(Spa)**

[Secondary prevention of ischemic strokes: effect of dosage of aspirin] Alvarez–Sabín J, et al. **Rev Neurol** 1997 Apr; 25(140):541–4 (Eng. Abstr.) **(Spa)**

TOXICITY

Studies on the chronic oral toxicity of an analgesic drug combination consisting of acetylsalicylic acid, paracetamol and caffeine in rats including an electron microscopical evaluation of kidneys. Lehmann H, et al. **Arzneimittelforschung** 1996 Sep;46(9):895–905

Formulation of aspirin–magaldrate double–layer tablets: in vitro evaluation and cytoprotective activity in rats. al Gohary OM, et al. **Boll Chim Farm** 1996 Jul–Aug; 135(7):421–8

Toxicity to transferred rat embryos after aspirin treatment during preimplantation stage in vivo. Lou YJ, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):52–4

Influence of hydrocortisone on the analgesic effect, toxicity and metabolism of aspirin in mice. Tantcheva L, et al. **Gen Pharmacol** 1997 Jan;28(1):123–8

Role of neutrophil–endothelial cell interactions in gastric mucosal injury induced by aspirin. Yoshida N, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S73–7

A characteristic of aspirin–induced hearing loss in auditory brainstem response of conscious rats. Kurata K, et al. **J Vet Med Sci** 1997 Jan;59(1):9–15

Effects of dietary restriction on experimental gastric mucosal injury in Fischer 344 rats. Lee M, et al. **Mech Ageing Dev** 1996 Jul 31;89(1):11–20

Effect of aspirin on transiently evoked otoacoustic emissions in guinea pigs. Ueda H, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Mar–Apr; 58(2):61–7

[Effects of blastocyst deficiencies induced by aspirin treatment during preimplantation period in rats on development of embryos after implantation] Ying Y, et al. **Yao Hsueh Hsueh Pao** 1996;31(6):416–9 (Eng. Abstr.) **(Chi)**

[An evaluation of the chronic toxicity of the new preparation val'kofen for children] Shapovalova VA, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):47–50 (Eng. Abstr.) **(Rus)**

URINE

Acetylsalicylate and salicylates in foods. Janssen PL, et al. **Cancer Lett** 1997 Mar 19;114(1–2):163–4

Laser induced resonance energy transfer—a novel approach towards achieving high sensitivity in capillary electrophoresis. I. Clinical diagnostic application. Petersen JR, et al. **J Chromatogr A** 1996 Sep 13;744(1–2):37–44

ASPIRIN–LIKE AGENTS see **ANTI–INFLAMMATORY AGENTS, NON–STEROIDAL**

ASSAULTIVE BEHAVIOR see **VIOLENCE**

ASSERTIVENESS

An empirical investigation of the construct of personality authority in late adolescent women and their level of college adjustment. Protinsky H, et al. **Adolescence** 1996 Summer;31(122):291–5

Controlling ourselves, controlling our world. Psychology's role in understanding positive and negative consequences of seeking and gaining control. Shapiro DH Jr, et al. **Am Psychol** 1996 Dec;51(12):1213–30 (330 ref.)

Assertion training therapy in psychiatric milieus. Aschen SR. **Arch Psychiatr Nurs** 1997 Feb;11(1):46–51

Effects of music on assertive behavior during exercise by middle–school–age students. Mills BD. **Percept Mot Skills** 1996 Oct;83(2):423–6

Social skills training for drug prevention in high–risk female adolescents. Palinkas LA, et al. **Prev Med** 1996 Nov–Dec; 25(6):692–701

Saying "no" to environmental tobacco smoke: determinants of assertiveness among nonsmoking employees. Willemsen MC, et al. **Prev Med** 1996 Sep–Oct;25(5):575–82

Objective detection of faking on role–play tests of assertion: gender differences [see comments] Kern JM. **Psychol Rep** 1996 Apr;78(2):355–61. Comment in: Psychol Rep 1994 Apr;74(2):367–70.

Self–defeating personality, argumentativeness, and assertive

ASSERTIVENESS

self-statements. Schill T. **Psychol Rep** 1996 Dec;79(3 Pt 2):1103–6
[Disorders of assertiveness and social anxiety] Azaïs F, et al. **Ann Med Psychol (Paris)** 1995 Dec;153(10):667–75 (33 ref.) (Eng. Abstr.) **(Fre)**

ASSESSMENT, EDUCATIONAL see **EDUCATIONAL MEASUREMENT**

ASSESSMENT OF HEALTH CARE NEEDS see **HEALTH SERVICES NEEDS AND DEMAND**

ASSESSMENT, RISK see **RISK ASSESSMENT**

ASSIMILATION see **ACCULTURATION**

ASSISTED CIRCULATION

see related
HEART-ASSIST DEVICES
Development of an intravascular pumping oxygenator using a new silicone membrane. Sueda T, et al. **Artif Organs** 1997 Jan;21(1):75–8
Determinants of clinical results of mechanical circulatory support for ventricular failure after cardiotomy. Kitamura M, et al. **ASAIO J** 1996 Sep–Oct;42(5):M729–32
Bridge experience with long-term implantable left ventricular assist devices. Are they an alternative to transplantation? Oz MC, et al. **Circulation** 1997 Apr 1; 95(7):1844–52
Resurrection after mechanical circulatory support [editorial; comment] Rose EA, et al. **Circulation** 1997 Jul 15; 96(2):393–5. Comment on: Circulation 1997 Jul 15;96(2):542–9.
Cardiac transplantation for auxiliary circulatory support [editorial; comment] Reemtsma K.
J Thorac Cardiovasc Surg 1997 Jun;113(6):1041. Comment on: J Thorac Cardiovasc Surg 1997 Jun;113(6):1042–8; discussion 1048–9.
Mechanical circulatory support: lessons from a single centre. el-Banayosy A, et al. **Perfusion** 1996 Mar;11(2):93–102 (44 ref.)
[Indication of mechanical circulatory assistance] Dubois-Randé JL, et al. **Chirurgie** 1997 Jan; 121(9–10):676–84 (24 ref.) (Eng. Abstr.) **(Fre)**
[Circulatory assistance. II. Complications and results] Defraigne JO, et al. **Rev Med Liege** 1996 May;51(5):359–67 (97 ref.) **(Fre)**
[Percutaneous "high risk" angioplasty with prophylactic cardiopulmonary support. High risk PTCA with mechanical circulatory support] Borges AC, et al.
Z Kardiol 1996;85 Suppl 4:21–8 (Eng. Abstr.) **(Ger)**
[Cardiopulmonary support in high-risk percutaneous coronary angioplasty] Bartorelli AL. **Cardiologia** 1997 May; 42(5):533–9 (5 ref.) **(Ita)**
[Enoximone in weaning from mechanical circulation support in pediatric patients] Bevilacqua S, et al.
Minerva Anestesiol 1997 Jan–Feb;63(1–2):9–16 (Eng. Abstr.) **(Ita)**
[Weaning in cardiopulmonary bypass patients with compromised cardiac function. Comparison of enoximone and dopamine] Menichetti A, et al. **Minerva Anestesiol** 1997 Jan–Feb;63(1–2):1–8 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS
Effect of surface roughness on hemolysis in a centrifugal blood pump. Takami Y, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M858–62

INSTRUMENTATION
Permanent mechanical circulatory support with an implantable left ventricular assist device. McCarthy PM, et al. **Ann Thorac Surg** 1997 May;63(5):1458–61
Development of a new blood pump using a shape memory alloy actuator. Lee DJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M765–8
Experimental study of extraaortic balloon counterpulsation as a bridge to other mechanical assists. Odaguchi H, et al. **ASAIO J** 1996 May–Jun;42(3):190–4
Effect of surface roughness on hemolysis in a centrifugal blood pump. Takami Y, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M858–62
[Survival of a patient with postinfarction ventricular septal defect following venoarterial bypass with centrifugal pump and reoperation for residual shunt] Ohuchi H, et al.
Kyobu Geka 1996 Sep;49(10):838–41 (6 ref.) (Eng. Abstr.) **(Jpn)**
[Long term assisted circulation by non-pulsatile pumps] Nishimura K. **Nippon Geka Hokan** 1996 Jan 1;65(1):1–2 **(Jpn)**

METHODS
Technique of right heart protection and deairing during heartmate vented electric LVAD implantation. Van Meter CH Jr, et al. **Ann Thorac Surg** 1997 Apr;63(4):1191–2
Mechanical circulatory support for post cardiotomy cardiogenic shock in infants. Ishino K, et al. **ASAIO J** 1996 Sep–Oct;42(5):M735–8
Improved management of selective cerebral perfusion in aortic arch surgery. Matsuwaka R, et al. **ASAIO J** 1996 Sep–Oct;42(5):M794–6
Ferromagnetic artificial cells for artificial circulation. Mitamura Y, et al. **ASAIO J** 1996 Sep–Oct;42(5):M402–6
Apico-aortic shunt: a support technique during surgery on the descending thoracic aorta. Kuribayashi R, et al.
J Cardiovasc Surg (Torino) 1997 Jun;38(3):271–6
Dynamic cardiac compression improves contractile efficiency of the heart. Kawaguchi O, et al.
J Thorac Cardiovasc Surg 1997 May;113(5):923–31
[Terminal cardiac failure. Circulatory assist devices] Duveau D, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:51–4 (Eng. Abstr.) **(Fre)**
[Uni- or biventricular circulatory assist devices. Selection criteria and patients' follow-up, choice of device] Villemot JP, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:55–63 (21 ref.) (Eng. Abstr.) **(Fre)**

STANDARDS
Hydraulic assessment of the floating impeller phenomena in a centrifugal pump. Nakazawa T, et al. **Artif Organs** 1997 Jan;21(1):78–82

ASSISTED SUICIDE see **SUICIDE, ASSISTED**

ASSOCIATED VIRUSES see **SATELLITE VIRUSES**

ASSOCIATESHIP PRACTICE, DENTAL see **PARTNERSHIP PRACTICE, DENTAL**

ASSOCIATION

see related
WORD ASSOCIATION TESTS
Perspectives on the place of environmental health and protection in public health and public health agencies. Kotchian S. **Annu Rev Public Health** 1997;18:245–59 (36 ref.)
Explicit and implicit memory bias in social phobia. The role of subdiagnostic type. Lundh LG, et al.
Behav Res Ther 1997 Apr;35(4):305–17
Time course of attentional bias for threat information in non-clinical anxiety. Mogg K, et al. **Behav Res Ther** 1997 Apr;35(4):297–303
Functional transitions between epileptiform-like activity and associative memory in hippocampal region CA3. Wallenstein GV, et al. **Brain Res Bull** 1997;43(5):485–93
Human hippocampus establishes associations in memory. Henke K, et al. **Hippocampus** 1997;7(3):249–56
Equilibrium and attractivity analysis for a class of hetero-associative neural memories. Lee DL, et al.
Int J Neural Syst 1996 Jul;7(3):287–304
Memory activation and expectancy as prospective predictors of alcohol and marijuana use. Stacy AW.
J Abnorm Psychol 1997 Feb;106(1):61–73
James W. Kincaid, MD. 1859–1933. Conner EH.
J Ky Med Assoc 1996 Aug;94(8):344
American Association of Electrodiagnostic Medicine guidelines in electrodiagnostic medicine: implanted cardioverters and defibrillators. AAEM Professional Practice Committee [corrected] [published erratum appears in Muscle Nerve 1996 Dec;19(12):1655] **Muscle Nerve** 1996 Oct;19(10):1359–60
American Association of Electrodiagnostic Medicine guidelines for establishing a quality assurance program in an electrodiagnostic laboratory. AAEM Professional Practice Committee. **Muscle Nerve** 1996 Nov; 19(11):1496–502
American Association of Electrodiagnostic Medicine guidelines for outcome studies in electrodiagnostic medicine. Jablecki CK, et al. **Muscle Nerve** 1996 Dec; 19(12):1626–35
The deterioration of semantic networks in patients with Alzheimer's disease: a cross-sectional study. Chan AS, et al. **Neuropsychologia** 1997 Mar;35(3):241–8
Within-compound associations mediate the retrospective revaluation of causality judgements. Dickinson A, et al. **Q J Exp Psychol B** 1996 Feb;49(1):60–80

ASSOCIATION, FREE see **FREE ASSOCIATION**

ASSOCIATION LEARNING

Food- and nonfood-related differential outcomes in equivalence learning by adults with Prader-Willi syndrome. Joseph B, et al. **Am J Ment Retard** 1997 Jan; 101(4):374–86
Reasoning and learning by analogy. Gentner D, et al.
Am Psychol 1997 Jan;52(1):32–4 (23 ref.)
The analogical mind. Holyoak KJ, et al. **Am Psychol** 1997 Jan;52(1):35–44
Educational implications of analogy. A view from case-based reasoning. Kolodner JL. **Am Psychol** 1997 Jan;52(1):57–66
Safety signals and human anxiety: a fear-potentiated startle study. Grillon C, et al. **Anxiety** 1994;1(1):13–21
Origins of specific fears: a comparison of associative and nonassociative accounts. Harris LM, et al. **Anxiety** 1996; 2(5):248–50
Sensitization of ingestive responding in preweanling rats: time course and specificity. Myers KP, et al. **Behav Neurosci** 1997 Apr;111(2):413–23
Associative learning in patients with cerebellar ataxia. Tucker J, et al. **Behav Neurosci** 1996 Dec;110(6):1229–34
Manipulation of dangerousness judgements to fear-relevant stimuli: effects on a priori UCS expectancy and a posteriori covariation assessment. Davey GC, et al.
Behav Res Ther 1997 Jul;35(7):607–17
The expectancy bias model of selective associations: the relationship of judgements of CS dangerousness, CS-UCS similarity and prior fear to a priori and a posteriori covariation assessments. Davey GC, et al.
Behav Res Ther 1996 Mar;34(3):235–52
Long-term potentiation in the in vitro perirhinal cortex displays associative properties. Bilkey DK. **Brain Res** 1996 Sep 16;733(2):297–300
Negative priming without overt prime selection. Milliken B, et al. **Can J Exp Psychol** 1996 Dec;50(4):333–46
Nonverbal local context cues explicit but not implicit memory. Mori M, et al. **Conscious Cogn** 1996 Mar-Jun; 5(1–2):91–116
Automatic retrieval of new associations under shallow encoding conditions. Reingold EM, et al.
Conscious Cogn 1996 Mar-Jun;5(1–2):117–30
Learning and retention of conditioned aversions by freely feeding chicks. Hayne H, et al. **Dev Psychobiol** 1996 Jul; 29(5):417–31
A developmental analysis of contextual fear conditioning. Pugh CR, et al. **Dev Psychobiol** 1996 Mar;29(2):87–100
Classical conditioning in the fetal rat with a long delay between presentation of CS and US. Varlinskaya EI, et al. **Dev Psychobiol** 1997 Jan;30(1):49–59
Challenging the notion of a thematic preference in young children. Waxman SR, et al. **Dev Psychol** 1997 May; 33(3):555–67
Pharmacotherapeutic education through problem based learning and its impact on cognitive and motivational attitude of Indian students. Chandra D, et al.
Eur J Clin Pharmacol 1996;51(1):1–5
The effects of lesions to the mammillary region and the hippocampus on conditional associative learning by rats. Sziklas V, et al. **Eur J Neurosci** 1996 Jan;8(1):106–15
Pavlov's position toward Konorski and Miller's distinction between Pavlovian and motor conditioning paradigms. Windholz G, et al. **Integr Physiol Behav Sci** 1996 Oct-Dec; 31(4):338–49
The S-R issue: its status in behavior analysis and in Donahoe and Palmer's learning and complex behavior [see comments] Donahoe JW, et al. **J Exp Anal Behav** 1997 Mar;67(2):193–211. Comment in: J Exp Anal Behav 1997 Mar;67(2):214–6. Comment in: J Exp Anal Behav 1997 Mar;67(2):229–31. Comment in: J Exp Anal Behav 1997 Mar;67(2):246–53.
Some questions about unification of conditioning processes, stimulus-response psychology, and neural network models [comment] Dworkin SI, et al. **J Exp Anal Behav** 1997 Mar; 67(2):214–6. Comment on: J Exp Anal Behav 1997 Mar;67(2):193–211.
R-S and S(-O)-R: alternative designs for neural networks [comment] Kemp SM. **J Exp Anal Behav** 1997 Mar; 67(2):229–31. Comment on: J Exp Anal Behav 1997 Mar;67(2):193–211.
Differences in the effect of Pavlovian contingencies upon behavioral momentum using auditory versus visual stimuli. Mauro BC, et al. **J Exp Anal Behav** 1996 Mar;65(2):389–99
A transformation of respondently conditioned stimulus function in accordance with arbitrarily applicable relations. Roche B, et al. **J Exp Anal Behav** 1997 May;67(3):275–301
Conditioned reinforcement dynamics in three-link chained schedules. Williams BA. **J Exp Anal Behav** 1997 Jan; 67(1):145–59
Infants' memory for context: timing effects of postevent information. Boller K, et al. **J Exp Child Psychol** 1996 Dec; 63(3):583–602
Props and children's event reports: the impact of a 1-year delay. Salmon K, et al. **J Exp Child Psychol** 1997 Jun; 65(3):261–92
Converging evidence for one-trial context fear conditioning with an immediate shock: importance of shock potency. Bevins RA, et al. **J Exp Psychol Anim Behav Process** 1997 Jul;23(3):312–24
Models of ratio schedule performance. Bizo LA, et al.
J Exp Psychol Anim Behav Process 1997 Jul;23(3):351–67
Blocking of subsequent and antecedent events.
Esmoris-Arranz FJ, et al.
J Exp Psychol Anim Behav Process 1997 Apr;23(2):145–56
Additivity of the effects of retention interval and context change on latent inhibition: toward resolution of the context forgetting paradox. Rosas JM, et al.
J Exp Psychol Anim Behav Process 1997 Jul;23(3):283–94
Two loci of repetition priming in the recognition of familiar faces. Ellis AW, et al. **J Exp Psychol Learn Mem Cogn** 1996 Mar;22(2):295–308
Translation priming with different scripts: masked priming with cognates and noncognates in Hebrew-English bilinguals. Gollan TH, et al.
J Exp Psychol Learn Mem Cogn 1997 Sep;23(5):1122–39
Implicit memory for nonverbal associations. Musen G, et al.
J Exp Psychol Learn Mem Cogn 1997 Sep;23(5):1192–202
Personality, punishment, and procedural learning: a test of J.A. Gray's anxiety theory. Corr PJ, et al.
J Pers Soc Psychol 1997 Aug;73(2):337–44
Generation effects and the lack thereof: the role of transfer-appropriate processing. de Winstanley PA, et al.
Memory 1996 Jan;4(1):31–48
Errorless learning of novel associations in amnesia. Squires EJ, et al. **Neuropsychologia** 1997 Aug;35(8):1103–11

Remote and proximal US preexposure and aging effects in taste aversion learning in rats. Misanin JR, et al. **Physiol Behav** 1997 Feb;61(2):221–4
Reinforcer revaluation and conditioned place preference. Perks SM, et al. **Physiol Behav** 1997 Jan;61(1):1–5
The cognitive representation of action: automatic integration of perceived action effects. Hommel B. **Psychol Res** 1996; 59(3):176–86
On the mental representation of conditional sentences. Evans JS, et al. **Q J Exp Psychol A** 1996 Nov;49(4):1086–114
The topography of sexually conditioned behaviour: effects of a trace interval. Akins CK, et al. **Q J Exp Psychol B** 1996 Nov;49(4):346–56
Latent inhibition in schizophrenia. Swerdlow NR, et al. **Schizophr Res** 1996 May;20(1–2):91–103

DRUG EFFECTS

Low dose of ethanol induces conditioned place preference in rats after repeated exposures to ethanol or saline injections. Bienkowski P, et al. **Alcohol Alcohol** 1996 Nov; 31(6):547–53
Amphetamine disrupts negative patterning but does not produce configural association deficits on an alternative task. Blackburn JR, et al. **Behav Brain Res** 1996 Oct; 80(1–2):41–9
DHEA–S selectively impairs contextual–fear conditioning: support for the antiglucocorticoid hypothesis. Fleshner M, et al. **Behav Neurosci** 1997 Jun;111(3):512–7
Analyses of response patterns clarify lead effects in olfactory reversal and extradimensional shift tasks: assessment of inhibitory control, associative ability, and memory. Hilson JA, et al. **Behav Neurosci** 1997 Jun;111(3):532–42
Functional inactivation of the lateral and basal nuclei of the amygdala by muscimol infusion prevents fear conditioning to an explicit conditioned stimulus and to contextual stimuli. Muller J, et al. **Behav Neurosci** 1997 Aug; 111(4):683–91
Effects of excitotoxic lesions of the central amygdaloid nucleus on the potentiation of reward–related stimuli by intra–accumbens amphetamine. Robledo P, et al. **Behav Neurosci** 1996 Oct;110(5):981–90
Establishing preference for oral cocaine without an associative history with a reinforcer. Falk JL, et al. **Drug Alcohol Depend** 1997 Jul 4;46(3):159–66
Reversible inactivations of the cerebellum with muscimol prevent the acquisition and extinction of conditioned nictitating membrane responses in the rabbit. Hardiman MJ, et al. **Exp Brain Res** 1996 Jul;110(2):235–47
The nitric oxide synthesis inhibitor L–NAME facilitates associative learning. Du W, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1183–95

PHYSIOLOGY

Molecular and biophysical steps in the storage of associative memory. Alkon DL, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:500–4
What's elementary about associative learning? Wasserman EA, et al. **Annu Rev Psychol** 1997;48:573–607 (245 ref.)
Serotonergic regulation of associative learning. Harvey JA. **Behav Brain Res** 1996;73(1–2):47–50 (22 ref.)
Resistance of experientially–induced changes in murine plus–maze behaviour to altered retest conditions. Rodgers RJ, et al. **Behav Brain Res** 1997 Jun;86(1):71–7
Sensitization to the psychomotor stimulant effects of amphetamine: modulation by associative learning. Anagnostaras SG, et al. **Behav Neurosci** 1996 Dec; 110(6):1397–414
Hippocampal lesions impair contextual fear conditioning in two strains of mice. Chen C, et al. **Behav Neurosci** 1996 Oct;110(5):1177–80
Fear–potentiated startle in two strains of inbred mice. Falls WA, et al. **Behav Neurosci** 1997 Aug;111(4):855–61
Potentiation of phototactic suppression in Hermissenda by a chemosensory stimulus during compound conditioning. Farley J, et al. **Behav Neurosci** 1997 Apr;111(2):320–41
Potentiation of phototactic suppression in Hermissenda by compound conditioning results in potentiated excitability changes in type B and A photoreceptors. Farley J, et al. **Behav Neurosci** 1997 Apr;111(2):309–19
Normal conditioned inhibition and extinction of freezing and fear–potentiated startle following electrolytic lesions of medical prefrontal cortex in rats. Gewirtz JC, et al. **Behav Neurosci** 1997 Aug;111(4):712–26
Dissociable effects of selective lesions to hippocampal subsystems on exploratory behavior, contextual learning, and spatial learning. Good M, et al. **Behav Neurosci** 1997 Jun;111(3):487–93
Contextual control of conditioned responding in rats with dorsal hippocampal lesions. Hall G, et al. **Behav Neurosci** 1996 Oct;110(5):933–45
Intact perceptual memory in the absence of conscious memory. Hamann SB, et al. **Behav Neurosci** 1997 Aug; 111(4):850–4
Disturbances of neophobia and taste–aversion learning after bilateral kainate microlesions in the rat pallidum. Hernadi I, et al. **Behav Neurosci** 1997 Feb;111(1):137–46
Motor cortex lesions do not affect learning or performance of the eyeblink response in rabbits. Ivkovich D, et al. **Behav Neurosci** 1997 Aug;111(4):727–38
Tail–flick test: II. The role of supraspinal systems and avoidance learning. King TE, et al. **Behav Neurosci** 1997 Aug;111(4):754–67
Partial hippocampal kindling affects retention but not acquisition and place but not cue tasks on the radial arm maze. Leung LS, et al. **Behav Neurosci** 1996 Oct; 110(5):1017–24
Variations in learning reflect individual differences in sensory function and synaptic integration. Matzel LD, et al. **Behav Neurosci** 1996 Oct;110(5):1084–95
Cold shock before associative conditioning blocks memory retrieval, but cold shock after conditioning blocks memory retention in Caenorhabditis elegans. Morrison GE, et al. **Behav Neurosci** 1997 Jun;111(3):564–78
Role of the hippocampus plus subjacent cortex but not amygdala in visuomotor conditional learning in rhesus monkeys. Murray EA, et al. **Behav Neurosci** 1996 Dec; 110(6):1261–70
Incremental redistribution of protein kinase C underlies the acquisition curve during in vitro associative conditioning in Hermissenda. Muzzio IA, et al. **Behav Neurosci** 1997 Aug;111(4):739–53
A selective role for corticosterone in contextual–fear conditioning. Pugh CR, et al. **Behav Neurosci** 1997 Jun; 111(3):503–11
Gustatory thalamus lesions in the rat: II. Aversive and appetitive taste conditioning. Reilly S, et al. **Behav Neurosci** 1996 Aug;110(4):746–59
Stimulus configuration, occasion setting, and the hippocampus. Schmajuk NA, et al. **Behav Neurosci** 1997 Apr;111(2):235–57; appendix 258 (90 ref.)
Early acquisition, but not retention, of the classically conditioned eyeblink response is N–methyl–D–aspartate (NMDA) receptor dependent. Servatius RJ, et al. **Behav Neurosci** 1996 Oct;110(5):1040–8
Classical conditioning with electrical stimulation of cerebellum as both conditioned and unconditioned stimulus. Shinkman PG, et al. **Behav Neurosci** 1996 Oct; 110(5):914–21
Effect of tone–dependent fear conditioning on heart rate and behavior of C57BL/6N mice. Stiedl O, et al. **Behav Neurosci** 1997 Aug;111(4):703–11
Involvement of the dorsal periaqueductal gray in the loss of fear–potentiated startle accompanying high footshock training. Walker DL, et al. **Behav Neurosci** 1997 Aug; 111(4):692–702
Cooling the area postrema induces conditioned taste aversions in male rats and blocks acquisition of LiCl–induced aversions. Wang Y, et al. **Behav Neurosci** 1997 Aug;111(4):768–76
Mutations that prevent associative learning in C. elegans. Wen JY, et al. **Behav Neurosci** 1997 Apr;111(2):354–68
UCS inflation and human aversive autonomic conditioning. de Jong PJ, et al. **Biol Psychol** 1996 Jun 28;43(3):227–39
Early auditory filial learning in degus (Octodon degus): behavioral and autoradiographic studies. Poeggel G, et al. **Brain Res** 1996 Dec 16;743(1–2):162–70
Phospholipases and arachidonic acid contribute independently to sensory transduction and associative neuronal facilitation in Hermissenda type B photoreceptors. Talk AC, et al. **Brain Res** 1997 Mar 21;751(2):196–205
Associative and perceptual learning and the concept of memory systems. Gaffan D. **Brain Res Cogn Brain Res** 1996 Dec;5(1–2):69–80
Shifts in children's ear asymmetry during verbal and nonverbal auditory–visual association tasks: a "virtual stimulus" effect. Hiscock M, et al. **Cortex** 1996 Jun; 32(2):367–74
Learning–induced changes in rat piriform cortex activity mapped using multisite recording with voltage sensitive dye. Litaudon P, et al. **Eur J Neurosci** 1997 Aug; 9(8):1593–602
Age–related differences in perceptual learning. Gilbert DK, et al. **Hum Factors** 1996 Sep;38(3):417–24
The effects of neonatal jaundice and respiratory complications on learning and habituation in 5– to 11–month–old infants. Weir C, et al. **J Child Psychol Psychiatry** 1997 Feb;38(2):199–206
Perseverations during paired–associate learning in Huntington's disease. Rich JB, et al. **J Clin Exp Neuropsychol** 1997 Apr;19(2):191–203
Biological substrates of operant conditioning and the operant–respondent distinction [comment] Stein L. **J Exp Anal Behav** 1997 Mar;67(2):246–53. Comment on: J Exp Anal Behav 1997 Mar;67(2):193–211.
Sequence of single neuron changes in CA1 hippocampus of rabbits during acquisition of trace eyeblink conditioned responses. McEchron MD, et al. **J Neurophysiol** 1997 Aug; 78(2):1030–44
Orbitofrontal cortex neurons: role in olfactory and visual association learning. Rolls ET, et al. **J Neurophysiol** 1996 May;75(5):1970–81
Emotional and behavioral correlates of mediodorsal thalamic neurons during associative learning in rats. Oyoshi T, et al. **J Neurosci** 1996 Sep 15;16(18):5812–29
Ventral prefrontal cortex is not essential for working memory. Rushworth MF, et al. **J Neurosci** 1997 Jun 15; 17(12):4829–38
Functional structuration of the cerebellar efferent network involved in forelimb control, during processing of an associative conditioning. Rispal–Padel L, et al. **J Physiol Paris** 1996;90(5–6):373–9
Olfactory learning deficits in mutants for leonardo, a Drosophila gene encoding a 14–3–3 protein. Skoulakis EM, et al. **Neuron** 1996 Nov;17(5):931–44
Visuo–motor conditional associative learning after frontal and temporal lesions in the human brain. Petrides M. **Neuropsychologia** 1997 Jul;35(7):989–97
Effects of aging on conditional associative learning: process analyses and comparison with focal frontal lesions. Levine B, et al. **Neuropsychology** 1997 Jul;11(3):367–81
A functional magnetic resonance imaging study of episodic memory. Busatto G, et al. **Neuroreport** 1997 Aug 18; 8(12):2671–5
Changes in the electrical characteristics of command neurons on development of a conditioned defensive reflex in the edible snail. Gainutdinov KLh, et al. **Neurosci Behav Physiol** 1997 Jul–Aug;27(4):367–9
NMDA receptors and associative–type ultrastructural synaptic plasticity in the rat neocortex. Khludova GG, et al. **Neurosci Behav Physiol** 1997 Jul–Aug;27(4):391–3
Participation of the glutamatergic input of the nucleus accumbens in the regulation of the synaptic release of dopamine during associative learning. Saul'skaya NB, et al. **Neurosci Behav Physiol** 1996 Mar–Apr;26(2):174–81
Retention of conditioned taste aversion to NaCl after chorda tympani transection in Fischer 344 and Wistar rats. Sollars SI, et al. **Physiol Behav** 1996 Jul;60(1):65–9
An ear for quality: differential associative characteristics of taste–potentiated auditory and odor avoidance. von Kluge S, et al. **Physiol Behav** 1996 Aug;60(2):331–9
Reversible antisense inhibition of Shaker–like Kv1.1 potassium channel expression impairs associative memory in mouse and rat. Meiri N, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4430–4
Learning the temporal dynamics of behavior. Machado A. **Psychol Rev** 1997 Apr;104(2):241–65
[NMDA receptors and the ultrastructural synaptic plasticity of the associative type in the rat neocortex] Khludova GG, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul–Aug; 46(4):808–10 **(Rus)**

ASTASIA–ABASIA see **CONVERSION DISORDER**

ASTATINE

CHEMISTRY

Evaluation of an internal cyclotron target for the production of 211At via the 209Bi (alpha,2n)211 at reaction. Larsen RH, et al. **Appl Radiat Isot** 1996 Feb;47(2):135–43
Monoclonal antibody F(ab')2 fragment labeled with N–succinimidyl 2,4–dimethoxy–3–halobenzoates: in vivo comparison of iodinated and astatinated fragments. Vaidyanathan G, et al. **Nucl Med Biol** 1994 Jan; 21(1):105–10

DIAGNOSTIC USE

Evaluation of meta–[211At]astatobenzylguanidine in an athymic mouse human neuroblastoma xenograft model. Vaidyanathan G, et al. **Nucl Med Biol** 1996 Aug; 23(6):851–6

PHARMACOKINETICS

Two ways to establish potential At–211 radiopharmaceuticals. Wunderlich G, et al. **Anticancer Res** 1997 May–Jun;17(3B):1809–13 (28 ref.)
3–[211At]astato–4–fluorobenzylguanidine: a potential therapeutic agent with prolonged retention by neuroblastoma cells. Vaidyanathan G, et al. **Br J Cancer** 1997;76(2):226–33
Preparation and biological evaluation of an astatine–211 labeled biotin conjugate: biotinyl–3–[211 At]astatoanilide. Foulon CF, et al. **Nucl Med Biol** 1997 Feb;24(2):135–43
Tissue distribution and radiation dosimetry of astatine–211–labeled chimeric 81C6, an alpha–particle–emitting immunoconjugate. Zalutsky MR, et al. **Nucl Med Biol** 1997 Apr;24(3):255–61

PHARMACOLOGY

Cytotoxicity of alpha–particle–emitting 5–[211At]astato–2'–deoxyuridine in human cancer cells. Larsen RH, et al. **Int J Radiat Biol** 1997 Jul;72(1):79–90

THERAPEUTIC USE

Two ways to establish potential At–211 radiopharmaceuticals. Wunderlich G, et al. **Anticancer Res** 1997 May–Jun;17(3B):1809–13 (28 ref.)
211At–methylene blue for targeted radiotherapy of disseminated melanoma: microscopic analysis of tumour versus normal tissue damage. Link EM, et al. **Eur J Cancer** 1996 Oct;32A(11):1986–94
Targeted therapy using alpha emitters. Vaidyanathan G, et al. **Phys Med Biol** 1996 Oct;41(10):1915–31 (76 ref.)

ASTEMIZOLE

ADVERSE EFFECTS

Safety profiles of tramadol, lindane, and astemizole updated [news] **Am J Health Syst Pharm** 1996 May 15;53(10):1116, 1122
Nonsedating antihistamines in pregnancy. Mazzotta P, et al. **Can Fam Physician** 1997 Sep;43:1509–11

ASTEMIZOLE

Drug-induced torsades de pointes in one patient with congenital long QT syndrome. Hsieh MH, et al. **Int J Cardiol** 1996 Apr 19;54(1):85–8

Effects of magnesium sulfate on the canine cardiovascular system complicating astemizole overdose. Sugiyama A, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):795–800

Combined use of astemizole and ketoconazole resulting in torsade de pointes. Tsai WC, et al. **J Formos Med Assoc** 1997 Feb;96(2):144–6

ANALOGS & DERIVATIVES

Torsade de pointes with an antihistamine metabolite: potassium channel blockade with desmethylastemizole. Vorperian VR, et al. **J Am Coll Cardiol** 1996 Nov 15; 28(6):1556–61

PHARMACOKINETICS

Influence of itraconazole on the pharmacokinetics and electrocardiographic effects of astemizole. Lefebvre RA, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):319–22

PHARMACOLOGY

Late phase response during nasal challenge: effect of astemizole on leukotriene B4 levels. Kumar NS, et al. **Allergy Asthma Proc** 1996 Mar–Apr;17(2):93–9

Efficacy and tolerability of astemizole-D and Loratadine-D during prolonged, controlled allergen challenge in the Vienna Challenge Chamber. Horak F, et al. **Arzneimittelforschung** 1996 Nov;46(11):1077–81

Effects of the anti-allergics astemizole and norastemizole on Fc epsilon RI receptor-mediated signal transduction processes. Fischer MJ, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):97–105

POISONING

Arrhythmias after astemizole overdose. Heidemann SM, et al. **Pediatr Emerg Care** 1996 Apr;12(2):102–4 (17 ref.)

THERAPEUTIC USE

Onset of action and efficacy of terfenadine, astemizole, cetirizine, and loratadine for the relief of symptoms of allergic rhinitis. Day JH, et al. **Ann Allergy Asthma Immunol** 1997 Aug;79(2):163–72

Antihistamine responsive cluster headache in a teenaged girl. Neubauer D, et al. **Headache** 1997 May;37(5):296–8

The safety of astemizole in pregnancy. Pastuszak A, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):748–50

Treatment of aquagenic urticaria with PUVA and astemizole. Martínez-Escribano JA, et al. **J Am Acad Dermatol** 1997 Jan;36(1):118–9

A parallel-group comparison of astemizole and loratadine for the treatment of perennial allergic rhinitis. al-Muhaimeed H. **J Int Med Res** 1997 Jul–Aug; 25(4):175–81

Clinical trials of Astemizol in children with cow's milk hypersensitivity. Cudowska B, et al. **Rocz Akad Med Bialymst** 1995;40(3):613–8

TOXICITY

Effects of nonsedating antihistamine, astemizole, on the in situ canine heart assessed by cardiohemodynamic and monophasic action potential monitoring. Sugiyama A, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):89–95

ASTEROIDS see **MINOR PLANETS**

ASTHENIA

see related

NEURASTHENIA

[Isolated general malaise of unknown origin. A new syndrome (editorial) (see comments)] Teran Díaz E. **An Med Interna** 1996 Oct;13(10):467–70. Comment in: An Med Interna 1997 Apr;14(4):209–10. **(Spa)**

[Unexplained general malaise syndrome] de Portugal Alvarez DJ. **An R Acad Nac Med (Madr)** 1996;113(1):227–36 **(Spa)**

DIAGNOSIS

[Isolated general malaise of unknown origin. A new syndrome (letter; comment)] Suárez-Lozano I. **An Med Interna** 1997 Apr;14(4):209–10. Comment on: An Med Interna 1996 Oct;13(10):467–70. Comment on: An Med Interna 1996 Oct;13(10):471–5. **(Spa)**

ETIOLOGY

Anorexia and cachexia, asthenia, and lethargy. Watanabe S, et al. **Hematol Oncol Clin North Am** 1996 Feb;10(1):189–206 (100 ref.)

[Etiology of isolated general malaise (see comments)] de Portugal Alvarez J, et al. **An Med Interna** 1996 Oct; 13(10):471–5 (Eng. Abstr.). Comment in: An Med Interna 1997 Apr;14(4):209–10. **(Spa)**

THERAPY

[Current interest in thalassotherapy in stress and asthenic conditions] San Martín Bacaicoa J. **An R Acad Nac Med (Madr)** 1996;113(2):457–69; discussion 469–71 **(Spa)**

ASTHENOPIA

ETIOLOGY

Bilateral striate cortex contusion presenting with cerebral asthenopia rather than cortical blindness. Arakawa K, et al. **Fukuoka Igaku Zasshi** 1997 Jul;88(7):283–7

Refractive aniseikonia: a source of binocular vision stress and asthenopia [letter] Enoch J. **J Refract Surg** 1996 Jul–Aug; 12(5):565–6

[The influence of computer work on reaction time and accuracy in VDT operators] Borodulin-Nadzieja L, et al. **Med Pr** 1997;48(2):139–44 (Eng. Abstr.) **(Pol)**

[Eye fatigue during work with computer monitors] Salomon E, et al. **Med Pr** 1997;48(3):341–6 (39 ref.) **(Pol)**

PHYSIOPATHOLOGY

Oculomotor responses with aviator helmet-mounted displays and their relation to in-flight symptoms. Kotulak JC, et al. **Hum Factors** 1995 Dec;37(4):699–710

Accumulation of VDT work-related visual fatigue assessed by visual evoked potential, near point distance and critical flicker fusion. Murata K, et al. **Ind Health** 1996;34(2):61–9

Measurement of pupillary unrest in eyestrain. Nakamura Y. **Jpn J Ophthalmol** 1996;40(4):533–9

[Disparity of fixation in asthenopic syndrome] Paris V. **Bull Soc Belge Ophtalmol** 1995;259:165–73 (Eng. Abstr.) **(Fre)**

PREVENTION & CONTROL

Computer eye-strain [letter; comment] Johnston MP. **J Am Optom Assoc** 1996 Jun;67(6):314. Comment on: J Am Optom Assoc 1996 Apr;67(4):204–8.

The use of yoked base-up and base-in prism for reducing eye strain at the computer [see comments] [published erratum appears in J Am Optom Assoc 1996 Jun;67(6):315] Lazarus SM. **J Am Optom Assoc** 1996 Apr;67(4):204–8. Comment in: J Am Optom Assoc 1996 Jun;67(6):314.

PSYCHOLOGY

Psychology of computer use: XXXVI. Visual discomfort and different types of work at videodisplay terminals. Rechichi C, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):935–8

REHABILITATION

[Computer eyeglasses--aspects of a confusing topic] Huber-Spitzy V, et al. **Wien Med Wochenschr** 1997; 147(12–13):291–2 (Eng. Abstr.) **(Ger)**

THERAPY

Consultation section. Cataract and refractive surgical problems. **J Cataract Refract Surg** 1997 Apr;23(3):308–22

Colored filters and reading difficulties: a continuing controversy [editorial; comment] Evans BJ. **Optom Vis Sci** 1997 May;74(5):239–40. Comment on: Optom Vis Sci 1997 May;74(5):298–302.

ASTHMA

see related

ANTI-ASTHMATIC AGENTS

Does adenotonsillectomy affect the course of bronchial asthma and nasal allergy? Saito H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:212–5

XVth World Congress of Asthmology. April 24–27, 1996. Abstracts. **Allergy** 1996;51(30 Suppl):1–126

Asthma: from childhood to adulthood. Grol MH, et al. **Allergy** 1996 Dec;51(12):855–69 (115 ref.)

Scuba diving in individuals with asthma. Schanker HM, et al. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):311–3

Eight key questions to ask when your patient with asthma doesn't get better. Berlow BA. **Am Fam Physician** 1997 Jan;55(1):183–9, 192–4 (34 ref.)

Attenuated response to repeated daily ozone exposures in asthmatic subjects. Gong H Jr, et al. **Arch Environ Health** 1997 Jan–Feb;52(1):34–41

Managing asthma in general practice. Broomhall GR. **Aust Fam Physician** 1996 Feb;25(2):143–5, 148–51 (19 ref.)

Asthma [editorial] Gutch R. **Aust Fam Physician** 1997 Jan; 26 Suppl 1:S1–2

The future of asthma. Hall IP. **BMJ** 1997 Jan 4; 314(7073):45–9 (6 ref.)

Asthma in the elderly [see comments] Luce PJ. **Br J Hosp Med** 1996 Feb 7–20;55(3):118–20 (21 ref.). Comment in: Br J Hosp Med 1996 Nov 6–19;56(9):488.

Warn asthmatics of scuba diving risks [letter] Benlifer GE. **Chest** 1997 Jul;112(1):298

Does the mast cell still have a key role in asthma? Rossi GL, et al. **Chest** 1997 Aug;112(2):523–9 (75 ref.)

Reduction of environmental tobacco smoke exposure in asthmatic children. A 2-year follow-up. Wahlgren DR, et al. **Chest** 1997 Jan;111(1):81–8

Asthma programme in Finland 1994–2004. Report of a Working Group. Haahtela T, et al. **Clin Exp Allergy** 1996 Jan;26 Suppl 1:i–ii, 1–24

Asthma and allergy in pregnancy. Schatz M, et al. **Clin Perinatol** 1997 Jun;24(2):407–32 (82 ref.)

Asthma in the elderly: the importance of patient education. Anderson CJ, et al. **Compr Ther** 1996 Jun;22(6):375–83 (26 ref.)

Asthma patient education: a primer for the primary care physician. Oppedisano R, et al. **Compr Ther** 1996 Nov; 22(11):695–702 (19 ref.)

Asthma. **Curr Opin Pulm Med** 1997 Jan;3(1):B1–24

Is maternal asthma a risk factor for low birth weight? Results of an epidemiologic survey. Corchia C, et al. **Eur J Epidemiol** 1995 Dec;11(6):627–31

Oesophageal reflux and asthma. Ayres JG, et al. **Eur Respir J** 1996 May;9(5):1073–8 (45 ref.)

A hospital-based case-control study of quality of life in older asthmatics. Dyer CA, et al. **Eur Respir J** 1997 Feb; 10(2):337–41

Is there a place for intrinsic asthma as a distinct immunopathological entity? [editorial; comment] Kroegel C, et al. **Eur Respir J** 1997 Mar;10(3):513–5 (23 ref.). Comment on: Eur Respir J 1997 Mar;10(3):624–32.

The Asthma Impact Record (AIR) index: a rating scale to evaluate the quality of life of asthmatic patients in France. Letrait M, et al. **Eur Respir J** 1996 Jun;9(6):1167–73

Tracheobronchial deposition and clearance in small airways in asthmatic subjects [see comments] Svartengren K, et al. **Eur Respir J** 1996 Jun;9(6):1123–9. Comment in: Eur Respir J 1996 Jun;9(6):1118–22.

Outcome measures in early childhood asthma and other wheezing disorders. Proceedings of a workshop. Gerona, Spain, 21–23 September 1995. **Eur Respir J Suppl** 1996 Apr; 21:1s–49s

Immunological outcome measures. Björkstén B. **Eur Respir J Suppl** 1996 Apr;21:22s–27s (26 ref.)

Long-term outcome of early childhood wheezing: population data. Strachan D, et al. **Eur Respir J Suppl** 1996 Apr; 21:42s–47s (59 ref.)

Asthma in the elderly patient. Jack CI, et al. **Gerontology** 1996;42(2):61–8 (24 ref.)

Inhibitory effect of indomethacin on tachyphylaxis in response to acetaldehyde-induced bronchoconstriction in patients with asthma. Fujimura M, et al. **J Allergy Clin Immunol** 1997 May;99(5):620–3

The role of pharmacology and forensics in the death of an asthmatic. Merigian K, et al. **J Anal Toxicol** 1995 Oct; 19(6):522–8

Assessment of the severity of asthma in a family practice. Morris NV, et al. **J Asthma** 1996;33(6):425–39

Pregnancy and asthma [editorial; comment] Schatz M. **J Asthma** 1997;34(4):263–4. Comment on: J Asthma 1997 ;34(4):265–71.

Clinical impact versus factor analysis for quality of life questionnaire construction. Juniper EF, et al. **J Clin Epidemiol** 1997 Mar;50(3):233–8

Management of acute asthma in Canada: an assessment of emergency physician behaviour [see comments] Grunfeld A, et al. **J Emerg Med** 1997 Jul–Aug;15(4):547–56. Comment in: J Emerg Med 1997 Jul–Aug;15(4):533–4.

Asthma guidelines--beyond physician behavior [editorial; comment] Nowak RM. **J Emerg Med** 1997 Jul–Aug; 15(4):533–4. Comment on: J Emerg Med 1997 Jul–Aug;15(4):547–56.

Evaluation of an asthma severity score. Yung M, et al. **J Paediatr Child Health** 1996 Jun;32(3):261–4

Asthma and gastroesophageal reflux. Vandenplas Y. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):89–99 (114 ref.)

The use of continuous quality improvement methods to implement practice guidelines in asthma. Gibson PG, et al. **J Qual Clin Pract** 1996 Jun;16(2):87–102

Asthma in children. **J R Soc Health** 1997 Feb;117(1):57

Occupational asthma. Venables KM, et al. **Lancet** 1997 May 17;349(9063):1465–9 (36 ref.)

Asthma in pregnancy and lactation. A position paper for the Thoracic Society of Australia and New Zealand. McDonald CF, et al. **Med J Aust** 1996 Nov 4;165(9):485–8

Oesophageal reflux and asthma. Ayres JG. **Monaldi Arch Chest Dis** 1995 Dec;50(6):469–71 (21 ref.)

Role of leukotrienes in asthma pathogenesis. Fabbri L, et al. **Monaldi Arch Chest Dis** 1996 Dec;51(6):548–55 (112 ref.)

Low-dose theophylline: a new anti-inflammatory role in asthma management? MacLeod D, et al. **Monaldi Arch Chest Dis** 1996 Feb;51(1):30–4 (49 ref.)

Maintenance therapy: the compliance issue. Olivieri D, et al. **Monaldi Arch Chest Dis** 1996 Dec;51(6):557

Asthma but not smoking-related airflow limitation is associated with a high fat diet in men: results from the population study "Men born in 1914", Malmö, Sweden. Ström K, et al. **Monaldi Arch Chest Dis** 1996 Feb; 51(1):16–21

Proceedings of the joint meeting of the European Society of Pediatric Allergy and Clinical Immunology (ESPACI) and the Paediatric Assembly of the European Respiratory Society (ERS). Odense, Denmark, May 22–25, 1996. **Pediatr Allergy Immunol** 1996;7(9 Suppl):1–122

Dental management of children with asthma. Zhu JF, et al. **Pediatr Dent** 1996 Sep–Oct;18(5):363–70 (62 ref.)

An audit of asthma care at Khayelitsha Community Health Centre [letter] Mash B, et al. **S Afr Med J** 1997 Apr; 87(4):475–6

An evaluation of parental knowledge of childhood asthma in a family practice setting. Moosa SE, et al. **S Afr Med J** 1997 Jan;87(1):42–5

Asthma in pregnancy. Witlin AG. **Semin Perinatol** 1997 Aug; 21(4):284–97 (54 ref.)

Update on childhood asthma. Evans R 3rd. **West J Med** 1997 May;166(5):340–1

[Progresses of respiraology in China, 1996] Lin Y. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):883–4 (0 ref.) **(Chi)**

[General considerations on asthma] Sabbah A. **Allerg Immunol (Paris)** 1996 Sep;28(7):242–5 (0 ref.) (Eng. Abstr.) **(Fre)**

[On the subject of asthma (editorial)] Michel FB, et al. **Rev Mal Respir** 1996 Oct;13(5):453–4 **(Fre)**

[Reversible broncho–obstruction (asthma and COPD) in the elderly patient. Epidemiologic, diagnostic, and therapeutic features] Leonardi R, et al. **Recenti Prog Med** 1996 Sep; 87(9):437–44 (40 ref.) (Eng. Abstr.) **(Ita)**

[A reformation of asthma diary] Matsumura Y, et al. **Arerugi** 1997 May;46(5):438–44 **(Jpn)**

[High epidural anesthesia for asthmatic patients—case reports and philological Investigation] Enguchi T. **Masui** 1997 Mar;46(3):401–5 (Eng. Abstr.) **(Jpn)**

[Obstetric anesthesia for cesarean section of patients with bronchial asthma] Ueda K. **Masui** 1996 Dec;45 Suppl:S208–11 (1 ref.) **(Jpn)**

[Changing understanding and definition of bronchial asthma] Makino S. **Nippon Rinsho** 1996 Nov;54(11):2881–5 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Latinamerican consensus on diagnosis and treatment of asthma. Puebla, Mexico, 26–28, February 1993] **Rev Alerg Mex** 1994 Jul–Aug;41(4 Suppl):1–26 (0 ref.) **(Spa)**

[The allergist in the education of asthma concepts for the non–specialist (editorial)] Pérez Martín J. **Rev Alerg Mex** 1996 May–Jun;43(3):50–1 **(Spa)**

[Help the patient with asthma to life–long smoking cessation (letter; comment)] Lykken K, et al. **Lakartidningen** 1997 Jan 29;94(5):317. Comment on: Lakartidningen 1996 Oct 16;93(42):3711–3. **(Swe)**

BLOOD

Value of serum IgG subclasses in the prognosis of asthma in children with immunotherapy treatment. Canós Molinos J, et al. **Allergol Immunopathol (Madr)** 1997 Jan–Feb; 25(1):10–7

Serum levels of eosinophil cationic protein and eosinophil protein x in pollen atopic patients with stable asthma and its relation with bronchial hyperresponsiveness. Chivato T, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec; 24(6):243–7

Cytokine serum profiles in allergic and non–allergic asthma. Increased production of IL–10 by non–allergic asthmatic patients. Sánchez–Guerrero I, et al. **Allergol Immunopathol (Madr)** 1997 Mar–Apr;25(2):98–103

Blood markers of early and late airway responses to allergen in asthmatic subjects. Relationship with functional findings. Bancalari L, et al. **Allergy** 1997 Jan;52(1):32–40

Increased in vitro cysteinyl leukotriene release from blood leukocytes in patients with asthma, nasal polyps, and aspirin intolerance. Mewes T, et al. **Allergy** 1996 Jul;51(7):506–10

Plasma histamine in patients with tropical disorders and acute asthma who exhibit eosinophilia. Bruce C, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):249–52

PAF–induced eosinophil chemotaxis increases during an asthmatic attack and is inhibited by prednisolone in vivo and in vitro. Shindo K, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):146–51

Cytokine mRNA profiles of normal and asthmatic peripheral blood cells and endobronchial biopsies. Gelder CM, et al. **Biochem Soc Trans** 1996 May;24(2):315S

Selenium status is decreased in patients with intrinsic asthma. Kadrabová J, et al. **Biol Trace Elem Res** 1996 Jun; 52(3):241–8

Density of eosinophils reflects activity of disease in allergic asthmatic children. Krouwels FH, et al. **Clin Exp Allergy** 1995 Dec;25(12):1171–8

PAF and asthma—time for an appraisal? Kuitert L, et al. **Clin Exp Allergy** 1995 Dec;25(12):1159–62 (35 ref.)

Gene expression of interleukin–3 and granulocyte macrophage colony–stimulating factor in circulating CD4+ T cells in acute severe asthma. Lai CK, et al. **Clin Exp Allergy** 1996 Feb;26(2):138–46

Reduced platelet glutathione peroxidase activity and serum selenium concentration in atopic asthmatic patients. Misso NL, et al. **Clin Exp Allergy** 1996 Jul;26(7):838–47

Expression of adhesion molecules on mononuclear cells from individuals with stable atopic asthma. Tomita K, et al. **Clin Exp Allergy** 1997 Jun;27(6):664–71

Elevation of serum soluble tumour necrosis factor (TNF) receptor and IL–1 receptor antagonist levels in bronchial asthma. Yoshida S, et al. **Clin Exp Immunol** 1996 Oct; 106(1):73–8

Adrenocortical function in asthmatic children: low levels of adrenocortical hormones in children with persistent attacks. Nomura S, et al. **Eur J Pediatr** 1997 Apr;156(4):323–8

The glutamine 27 beta2–adrenoceptor polymorphism is associated with elevated IgE levels in asthmatic families. Dewar JC, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):261–5

Relevance of serum ECP measurements for monitoring acute asthma in children. Niggemann B, et al. **J Asthma** 1996; 33(5):327–30

Gas chromatographic–mass spectrometric determination of beta 2–agonists in postmortem blood: application in forensic medicine. Couper FJ, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):265–72

Cytokine profiles of stimulated blood lymphocytes in asthmatic and healthy adolescents across the school year. Kang DH, et al. **J Interferon Cytokine Res** 1997 Aug; 17(8):481–7

Plasma zinc, copper and copper/zinc ratio in intrinsic asthma. Kadrabová J, et al. **J Trace Elem Med Biol** 1996 Apr; 10(1):50–3

An accelerated increase of plasma adrenomedullin in acute asthma. Kohno M, et al. **Metabolism** 1996 Nov; 45(11):1323–5

Leukotriene B4 and C4 generation by human leukocytes after ex vivo stimulation with Ca–ionophore and opsonized zymosan in children with atopic asthma. Kristjánsson S, et al. **Pediatr Allergy Immunol** 1995 Aug;6(3):155–60

(n–6)–Fatty acids in plasma lipids of children with atopic bronchial asthma. Leichsenring M, et al. **Pediatr Allergy Immunol** 1995 Nov;6(4):209–12

Serum eosinophil cationic protein and interleukin–5 in children with bronchial asthma and acute bronchiolitis. Oymar K, et al. **Pediatr Allergy Immunol** 1996 Nov; 7(4):180–6

Circulating nerve growth factor levels are increased in humans with allergic diseases and asthma. Bonini S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10955–60

Clinical significance of serum concentration of interleukin 8 in patients with bronchial asthma or chronic pulmonary emphysema. Kanazawa H, et al. **Respiration** 1996; 63(4):236–40

[Effect of inhaled corticosteroids on serum eosinophil cationic protein and sIL–2R levels in asthmatics pulmonary hypertension] Wang H, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):306–8, 319 (Eng. Abstr.) **(Chi)**

[Changes in serum eosinophil cation protein level and blood eosinophil density in patients with asthma] Wang H, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):802–4 (Eng. Abstr.) **(Chi)**

[Pattern of circulating eosinophils in allergic children suffering from infectious disease] Montesanti M, et al. **Minerva Pediatr** 1997 May;49(5):187–91 (Eng. Abstr.) **(Ita)**

[The study of the relationship between serum eosinophil cationic protein and bronchial responsiveness in the patients with bronchial asthma] Endo S, et al. **Arerugi** 1996 Jan; 45(1):11–16 (Eng. Abstr.) **(Jpn)**

[Serum levels and in vitro production of IL–5 in children with bronchial asthma] Ikeda N, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Jun;20(3):159–65 (Eng. Abstr.) **(Jpn)**

[Usefulness of "Biotrack Theophylline kit" for measuring serum theophylline concentration in patients with chronic asthma] Iwata T. **Nippon Rinsho** 1996 Nov;54(11):3113–8 (Eng. Abstr.) **(Jpn)**

[Level of GM–CSF and IL–4 in serum of children with bronchial asthma] Lewandowicz–Uszyńska A, et al. **Pneumonol Alergol Pol** 1996;64(7–8):450–4 (Eng. Abstr.) **(Pol)**

[Blood platelets as one hemostatic indicator in patients with bronchial asthma] Rybacka–Chabros B, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 1:59–62 (Eng. Abstr.) **(Pol)**

[Hemorheological profiles in patients with arterial hypertension and bronchial asthma] Murav'ev AV, et al. **Vestn Ross Akad Med Nauk** 1997;(8):19–22 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Occupational asthma caused by mink urine. Jiménez Gómez I, et al. **Allergy** 1996 May;51(5):364–5

Reactive airways dysfunction syndrome induced by exposure to a mixture containing isocyanate: functional and histopathologic behaviour. Lemière C, et al. **Allergy** 1996 Apr;51(4):262–5

Autoimmune vasculitis and aortic stenosis in aspirin–induced asthma (AIA). Szczeklik A, et al. **Allergy** 1997 Mar; 52(3):352–4

Mechanism of aspirin–induced asthma. Szczeklik A. **Allergy** 1997 Jun;52(6):613–9 (76 ref.)

Occupational rhinitis and bronchial asthma due to morphine: evidence from inhalational and nasal challenges. Uliński S, et al. **Allergy** 1996 Dec;51(12):914–8

Psyllium laxative–induced anaphylaxis, asthma, and rhinitis. Vaswani SK, et al. **Allergy** 1996 Apr;51(4):266–8

Particulate air pollution: possible relevance in asthma. Glovsky MM, et al. **Allergy Asthma Proc** 1997 May–Jun; 18(3):163–6

Severe asthmatic reaction to contraindicated anti–inflammatory drug [letter] Hailemeskel B, et al. **Am J Health Syst Pharm** 1997 Jan 15;54(2):199–200

Work–related asthma and respiratory symptoms among workers exposed to metal–working fluids. Rosenman KD, et al. **Am J Ind Med** 1997 Oct;32(4):325–31

Hypersensitivity pneumonitis–like reaction and occupational asthma associated with 1,3–bis(isocyanatomethyl) cyclohexane pre–polymer. Simpson C, et al. **Am J Ind Med** 1996 Jul;30(1):48–55

Epidemic of asthma in a wood products plant using methylene diphenyl diisocyanate. Woellner RC, et al. **Am J Ind Med** 1997 Jan;31(1):56–63

Attenuation of aspirin–induced bronchoconstriction by sodium cromoglycate and nedocromil sodium. Robuschi M, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1461–4

Toluene diisocyanate–induced in vitro tracheal hyperreactivity in the mouse. Scheerens H, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):858–65

Bronchial aspirin challenge causes specific eicosanoid response in aspirin–sensitive asthmatics. Szczeklik A, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1608–14

Summertime haze air pollution and children with asthma. Thurston GD, et al. **Am J Respir Crit Care Med** 1997 Feb; 155(2):654–60

Linking isocyanates and asthma [news] Bradley D. **Anal Chem** 1997 Jun 1;69(11):339A

Asthma following inhalation accidents reported to the SWORD Project. Surveillance of Work–related and Occupational Respiratory Disease. Ross DJ, et al. **Ann Occup Hyg** 1996 Dec;40(6):645–50

Acute asthma associated with sustained–release verapamil. Ben–Noun L. **Ann Pharmacother** 1997 May;31(5):593–5

Exacerbation of asthma by topical diclofenac [letter] Sharir M. **Arch Ophthalmol** 1997 Feb;115(2):294–5

Angioedema and acute asthma attack due to the unexpected occurrence of aspirin in an over–the–counter cold preparation [letter] Chan TY. **Br J Clin Pract** 1996 Oct–Nov;50(7):412–3

Aspirin–induced asthma and HLA–DRB1 and HLA–DPB1 genotypes. Dekker JW, et al. **Clin Exp Allergy** 1997 May; 27(5):574–7

Occupational asthma caused by triglycidyl isocyanurate (TGIC). Piirilä P, et al. **Clin Exp Allergy** 1997 May; 27(5):510–4

Human laboratory studies of the health effects of air pollutants. Wardlaw AJ, et al. **Clin Exp Allergy** 1995 Nov; 25 Suppl 3:44–6 (0 ref.)

Problem drugs for the patient with asthma. Craig T, et al. **Compr Ther** 1996 Jun;22(6):339–44 (21 ref.)

The effects on asthmatics of exposure to a conventional water–based and a volatile organic compound–free paint. Beach JR, et al. **Eur Respir J** 1997 Mar;10(3):563–6

Reactive airways dysfunction syndrome (RADS) following exposure to toxic gases of a swine confinement building. Cormier Y, et al. **Eur Respir J** 1996 May;9(5):1090–1

Rhinitis caused by ninhydrin develops into occupational asthma. Piirilä P, et al. **Eur Respir J** 1997 Aug; 10(8):1918–21

Allergic disease, immunoglobulins, exposure to mercury and dental amalgam in Swedish adolescents. Herrström P, et al. **Int Arch Occup Environ Health** 1997;69(5):339–42

Asthma and the indoor environment: the significance of emission of formaldehyde and volatile organic compounds from newly painted indoor surfaces. Wieslander G, et al. **Int Arch Occup Environ Health** 1997;69(2):115–24

Acute bronchial asthma associated with the administration of ophthalmic indomethacin. Polachek J, et al. **Isr J Med Sci** 1996 Nov;32(11):1107–9

New insights into the pathogenesis of severe corticosteroid–dependent asthma. Vrugt B, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S22–6; discussion S33–40 (29 ref.)

Alcohol–induced asthma: not only in Asians [letter; comment] Zellweger JP. **J Allergy Clin Immunol** 1997 Jun; 99(6 Pt 1):860. Comment on: J Allergy Clin Immunol 1996 Jan;97(1 Pt 1):74–84.

Evaluation of the sensitizing potential of eugenol and isoeugenol in mice and guinea pigs. Hilton I, et al. **J Appl Toxicol** 1996 Sep–Oct;16(5):459–64

The influence of misoprostol (synthetic analogue of prostaglandin E1) on aspirin–induced bronchoconstriction in aspirin–sensitive asthma. Szmidt M, et al. **J Investig Allergol Clin Immunol** 1996 Mar–Apr;6(2):121–5

Study of employees with anhydride–induced respiratory disease after removal from exposure. Grammer LC, et al. **J Occup Environ Med** 1996 Aug;38(8):771–4

Increased neutrophil chemotactic activity is noted in alminum–induced occupational asthma. Park HS, et al. **Korean J Intern Med** 1996 Jan;11(1):69–73

Asthma and consumption of salt [letter] Matthews J, et al. **Lancet** 1997 Sep 27;350(9082):957

ADP–sugar as a cause of disease [letter] Stockdale T. **Nutr Health** 1996;11(1):79–80

Occupational asthma and rhinitis caused by 1,2–benzisothiazolin–3–one in a chemical worker. Moscato G, et al. **Occup Med (Oxf)** 1997 May;47(4):249–51

A case of acute deterioration in asthma symptoms induced by isoniazid prophylaxis. Polosa R, et al. **Respir Med** 1997 Aug;91(7):438–40

Airway isocyanate–adducts in asthma induced by exposure to hexamethylene diisocyanate. Redlich CA, et al. **Scand J Work Environ Health** 1997 Jun;23(3):227–31

Risk of severe life threatening asthma [editorial] Barnes NC, et al. **Thorax** 1996 Nov;51(11):1073

Occupational asthma due to chrome and nickel electroplating. Bright P, et al. **Thorax** 1997 Jan;52(1):28–32

Risk of severe life threatening asthma and beta agonist type: an example of confounding by severity. Garrett JE, et al. **Thorax** 1996 Nov;51(11):1093–9

Adjuvant effect of respiratory irritation on pulmonary allergic sensitization: time and site dependency. Siegel PD, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):356–62

[Recognizing drug–induced lung injury] Chen E. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):259–60 **(Chi)**

[Asthma and rhinitis due to chloramine T-powder in instrument maintenance personnel] Keskinen H, et al. **Duodecim** 1995;111(10):921–5 **(Fin)**

[Does the pork/cat syndrome constitute a predisposition to heparin allergy?] Drouet M, et al. **Allerg Immunol (Paris)** 1997 Feb;29(2):43–5 (Eng. Abstr.) **(Fre)**

[Asthma and intolerance to benzoates] Petrus M, et al. **Arch Pediatr** 1996 Oct;3(10):984–7 (Eng. Abstr.) **(Fre)**

[Clinical aspects and diagnosis of sulfite intolerance. Apropos of 9 patients] Miltgen J, et al. **Rev Pneumol Clin** 1996; 52(6):363–71 (41 ref.) (Eng. Abstr.) **(Fre)**

[Cough or asthma crisis induced by propylene glycol (letter)] Spreux A, et al. **Therapie** 1996 Sep–Oct;51(5):561–2 **(Fre)**

[Absence of association of specific and nonspecific bronchial hyperreactivity in occupational asthma caused by platinum salts] Merget R, et al. **Pneumologie** 1997 Apr;51(4):345–50 (Eng. Abstr.) **(Ger)**

[Occupational asthma caused by cefmetazole and 7-aminocephalosporanic acid: description of a clinical case] Fracchia G, et al. **G Ital Med Lav Ergon** 1996 Jan–May; 18(1–3):3–5 (Eng. Abstr.) **(Ita)**

[Aspirin-induced asthma as an important type of bronchial asthma] Sakakibara H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:106–15 (Eng. Abstr.) **(Jpn)**

[Problems of environmental exposure to toxic effects of glutaraldehyde in medicine] Leszczyszyn J, et al. **Med Pr** 1997;48(3):335–40 (39 ref.) (Eng. Abstr.) **(Pol)**

[Alcohol and bronchial asthma] Maevskii AA. **Klin Med (Mosk)** 1996;74(7):68–9 (14 ref.) **(Rus)**

[Occupational bronchial asthma due to organic solvents] Ozhiganova VN, et al. **Med Tr Prom Ekol** 1997;(3):24–6 (Eng. Abstr.) **(Rus)**

[Aspirin-induced asthma (its clinical picture, pathogenesis and treatment)] Fedoseev GB, et al. **Ter Arkh** 1997; 69(3):64–8 (43 ref.) **(Rus)**

[The reactive airways dysfunction syndrome induced by glue (letter)] Alvarez MJ, et al. **Med Clin (Barc)** 1996 Apr 6; 106(13):517–8 (5 ref.) **(Spa)**

[Metabolic changes in arachidonic acid during aspirin desensitization] Salazar Villa RM, et al. **Rev Alerg Mex** 1996 May–Jun;43(3):56–61 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

A new index for early prediction of hospitalization in patients with acute asthma. Rodrigo G, et al. **Am J Emerg Med** 1997 Jan;15(1):8–13

The use of administrative data to risk-stratify asthmatic patients. Grana J, et al. **Am J Med Qual** 1997 Summer; 12(2):113–9

IL-4 and IL-5 mRNA and protein in bronchial biopsies from patients with atopic and nonatopic asthma: evidence against "intrinsic" asthma being a distinct immunopathologic entity. Humbert M, et al. **Am J Respir Crit Care Med** 1996 Nov; 154(5):1497–504

Alveolar tissue inflammation in asthma. Kraft M, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1505–10

Asthma—time for a change of name? Silverman M, et al. **Arch Dis Child** 1997 Jul;77(1):62–4; discussion 64–5

Chronic disease management system for asthma [letter; comment] Sturdy P, et al. **Br J Gen Pract** 1997 Jan; 47(414):53. Comment on: Br J Gen Pract 1996 Oct;46(411):583–7.

Pathological changes according to the severity of asthma. Cho SH, et al. **Clin Exp Allergy** 1996 Oct;26(10):1210–9

A comprehensive graphic approach to peak flow "traffic light system" -interpretation [letter] Rothe TB. **Eur Respir J** 1997 Apr;10(4):961–2

Severity of childhood asthma by socioeconomic status. Mielck A, et al. **Int J Epidemiol** 1996 Apr;25(2):388–93 (33 ref.)

Assessment of asthma using automated and full-text medical records. Donahue JG, et al. **J Asthma** 1997;34(4):273–81

The association of nocturnal asthma with asthma severity. Fix A, et al. **J Asthma** 1997;34(4):329–36

Comparison of three definitions of asthma: a longitudinal perspective. Toelle BG, et al. **J Asthma** 1997;34(2):161–7

Toward a simplified measure of asthma severity for applied research. Wahlgren DR, et al. **J Asthma** 1997;34(4):291–303

Predicting need for hospitalization in adults with asthma. Ebell M. **J Fam Pract** 1997 May;44(5):440–1

[Classification of asthma according to etiology, pathophysiology, and treatment: effects of antiallergic drugs] Fujimura M. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:125–33 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Classification of asthma based on genetics] Hiroyuki MM, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:97–9 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Classification for bronchial asthma from the viewpoint of autonomic nerve function and airway hyperreactivity] Inoue H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:104–5 (Eng. Abstr.) **(Jpn)**

[Classification of bronchial asthma based on immunological mechanisms] Morita Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:100–3 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Classification of bronchial asthma according to steroid and immunosuppressive treatment] Nagasaka Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:134–9 (22 ref.) (Eng. Abstr.) **(Jpn)**

[A new system for classifying bronchial asthma] Nemoto T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:91–6 (Eng. Abstr.) **(Jpn)**

[Classification approach to prognostication of the severity of bronchial asthma] Provotorov VM, et al. **Med Tekh** 1997 May–Jun;(3):7–10 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Bronchial asthma and allergic rhinitis in patients with hereditary palmoplantar keratoderma [letter] Gamborg Nielsen P. **Acta Derm Venereol** 1996 Sep;76(5):407–8

Asthma and atopy in schoolchildren in a defined population. Remes ST, et al. **Acta Paediatr** 1996 Aug;85(8):965–70

Are respiratory infections more frequent in glucocorticoid-dependent asthmatic patients? [editorial; comment] Demoly P, et al. **Allergy** 1997 Feb;52(2):122–3 (17 ref.). Comment on: Allergy 1997 Feb;52(2):144–54.

The clinical relationship of nasal polyps to asthma. Larsen K. **Allergy Asthma Proc** 1996 Sep–Oct;17(5):243–9

Nonobstetric conditions causing hypoxia during pregnancy: asthma and epilepsy. Coleman MT, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):1–7 (34 ref.)

Eosinophil-associated TGF-beta1 mRNA expression and airways fibrosis in bronchial asthma. Minshall EM, et al. **Am J Respir Cell Mol Biol** 1997 Sep;17(3):326–33

Atopy, asthma, and emphysema in patients with severe alpha-1-antitrypsin deficiency. Eden E, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):68–74

Experimental rhinovirus 16 infection. Effects on cell differentials and soluble markers in sputum in asthmatic subjects. Grünberg K, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):609–16

Unusually low PaCO2 as a sign of pulmonary embolism in acute severe asthma? [letter] Clarke RC, et al. **Anaesth Intensive Care** 1996 Oct;24(5):617–8

Anesthesia for patients with asthma. Low risk but not no risk [editorial; comment] Bishop MJ, et al. **Anesthesiology** 1996 Sep;85(3):455–6. Comment on: Anesthesiology 1996 Sep;85(3):460–7.

Perioperative respiratory complications in patients with asthma [see comments] Warner DO, et al. **Anesthesiology** 1996 Sep;85(3):460–7. Comment in: Anesthesiology 1996 Sep;85(3):455–6.

Persistent urticarial eruption in an asthmatic patient. Mukkamala R, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):359–64

Perioperative management for childhood asthma. Zachary CY, et al. **Ann Allergy Asthma Immunol** 1996 Dec; 77(6):468–72

Asthma and growth—cause for concern? Asthma & Growth in Tayside Children. Neville RG, et al. **Ann Hum Biol** 1996 Jul–Aug;23(4):323–31

Clinical significance of cough and wheeze in the diagnosis of asthma. Kelly YJ, et al. **Arch Dis Child** 1996 Dec; 75(6):489–93

Persistent nocturnal cough in childhood: a population based study [letter; comment] Madlom MM, et al. **Arch Dis Child** 1996 Aug;75(2):169–70. Comment on: Arch Dis Child 1995 Nov;73(5):403–7.

Stability of respiratory symptoms in unlabelled wheezy illness and nocturnal cough. Powell CV, et al. **Arch Dis Child** 1996 Nov;75(5):385–91

Is there a specific relationship between asthma and panic disorder? Van Peski-Oosterbaan AS, et al. **Behav Res Ther** 1996 Apr;34(4):333–40

Propranolol is contraindicated in asthma [letter] Fallowfield JM, et al. **BMJ** 1996 Dec 7;313(7070):1486

Emergency laparoscopy in a patient with severe asthma. Arrowsmith JE, et al. **Br J Hosp Med** 1996 May 1–14; 55(9):593

Bone disease in asthma. Walsh LJ, et al. **Br J Hosp Med** 1997 Apr 16–May 6;57(8):390–3

Rattlesnake bite in a patient with horse allergy and von Willebrand's disease: case report. Dubinsky I. **Can Fam Physician** 1996 Nov;42:2207–11

Coexistent asthma and functional upper airway obstruction. Case reports and review of the literature. Elshami AA, et al. **Chest** 1996 Nov;110(5):1358–61 (16 ref.)

Comparison between hypertonic and isotonic saline-induced sputum in the evaluation of airway inflammation in subjects with moderate asthma. Bacci E, et al. **Clin Exp Allergy** 1996 Dec;26(12):1395–400

Airways inflammation in asthma and chronic bronchitis [editorial; comment] Humbert M. **Clin Exp Allergy** 1996 Jul;26(7):735–7 (33 ref.). Comment on: Clin Exp Allergy 1996 Jul;26(7):766–74.

Esophageal dysmotility and gastroesophageal reflux in intrinsic asthma. Campo S, et al. **Dig Dis Sci** 1997 Jun; 42(6):1184–8

Influence of carriage of pneumococci in the nasopharynx of children on pneumococcal antigen detection [letter] Boersma WG, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):426–8

Association of gastroesophageal reflux (GER) with bronchial asthma. Chopra K, et al. **Indian Pediatr** 1995 Oct; 32(10):1083–6

Effect of regular nedocromil sodium or albuterol on bronchial inflammation in chronic asthma. Altraja A, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S58–64; discussion S64–6

Allergic rhinitis and asthma: how important is the link? Corren J. **J Allergy Clin Immunol** 1997 Feb;99(2):S781–6 (55 ref.)

Exercise-induced anaphylaxis after food contaminant ingestion in double-blinded, placebo-controlled, food-exercise challenge. Fiocchi A, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):424–5

Reversal of intractable acute severe asthma by first-trimester termination of pregnancy. Shanies HM, et al. **J Asthma** 1997;34(2):169–72

Clinical efficacy of a vaccine-immunostimulant combination in the prevention of influenza in patients with chronic obstructive pulmonary disease and chronic asthma. Centanni S, et al. **J Chemother** 1997 Aug;9(4):273–8

Cardiovascular effects of tricyclic antidepressants in childhood asthma: a case series and review. Wamboldt MZ, et al. **J Child Adolesc Psychopharmacol** 1997 Spring; 7(1):45–64 (63 ref.)

Bilateral lung collapse in an asthmatic patient during thoracotomy. Nesbitt EH, et al. **J Clin Anesth** 1997 Sep; 9(6):499–500

Acute, reversible myocardial ischemia in a patient with an asthmatic attack. Myrianthefs MM, et al. **J Electrocardiol** 1996 Oct;29(4):337–9 (10 ref.)

Cough with asthma: variant or norm? [letter; comment] Callahan CW. **J Pediatr** 1996 Mar;128(3):440. Comment on: J Pediatr 1995 Sep;127(3):339–47.

Allergic bronchopulmonary aspergillosis: an unusual complication of bronchial asthma. Hussain SF, et al. **JPMA J Pak Med Assoc** 1995 Dec;45(12):329–31

An unconscious man with asthma and a fixed, dilated pupil [see comments] Dimond JP, et al. **Lancet** 1997 Jan 11; 349(9045):98. Comment in: Lancet 1997 Mar 1;349(9052):652. Comment in: Lancet 1997 Mar 22;349(9055):883.

Disturbed consciousness and asthma [letter; comment] Ohrui T, et al. **Lancet** 1997 Mar 1;349(9052):652. Comment on: Lancet 1997 Jan 11;349(9045):98.

Commentary on recent clinical advances: magnesium depletion, magnesium deficiency and asthma. Durlach J. **Magnes Res** 1995 Dec;8(4):403–5 (10 ref.)

Asthma and cough [letter; comment] [see comments] Carter ER. **Pediatr Ann** 1996 Oct;25(10):536, 560. Comment on: Pediatr Ann 1996 Mar;25(3):156–8, 161. Comment in: Pediatr Ann 1997 May;26(5):278.

More on asthma and cough [letter; comment] Sayed A. **Pediatr Ann** 1997 May;26(5):278. Comment on: Pediatr Ann 1996 Oct;25(10):536, 560.

Pneumomediastinum in childhood asthma. Stack AM, et al. **Pediatr Emerg Care** 1996 Apr;12(2):98–101

The course of chickenpox in asthmatic children receiving inhaled budesonide. Nursoy MA, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):74–7

Neonatal chronic lung disease, oxygen dependency, and a family history of asthma [see comments] Hagan R, et al. **Pediatr Pulmonol** 1995 Nov;20(5):277–83. Comment in: Pediatr Pulmonol 1995 Nov;20(5):276.

The relation between physician-diagnosed sinusitis, asthma, and skin test reactivity to allergens in 8-year-old children. Lombardi E, et al. **Pediatr Pulmonol** 1996 Sep;22(3):141–6

Epidural emphysema in children with asthma [letter] Pifferi M, et al. **Pediatr Pulmonol** 1997 Aug;24(2):125–6

Endobronchial inflammatory pseudotumour exacerbating asthma. Jayne D, et al. **Postgrad Med J** 1997 Feb; 73(856):98–9

Prevalence of anxiety disorders in a clinic-based sample of pediatric asthma patients. Bussing R, et al. **Psychosomatics** 1996 Mar–Apr;37(2):108–15

Cough threshold for capsaicin increases by azelastine in patients with cough-variant asthma. Shioya T, et al. **Pulm Pharmacol** 1996 Feb;9(1):59–62

Tropical pulmonary eosinophilia masquerading as acute bronchial asthma. Jiva TM, et al. **Respiration** 1996; 63(1):55–8

The treatment of allergic rhinitis improves the recovery from asthma and upper respiratory infections. Sarti W, et al. **Rev Paul Med** 1995 Sep–Oct;113(5):968–72

Heterozygous alpha 1-antitrypsin deficiency (PiSZ) in an adolescent with asthma. Nuckton TJ, et al. **South Med J** 1996 Oct;89(10):1011–3 (21 ref.)

Antiallergic and antitussive medications: extent of use and relationship to asthma exacerbations. Van Ganse E, et al. **Therapie** 1996 Jul–Aug;51(4):373–7

[Relationship of asthma to gastroesophageal reflux] Vincent D. **Allerg Immunol (Paris)** 1997 Mar;29(3):63, 66–8 (Eng. Abstr.) **(Fre)**

[Inferior turbinectomy in asthmatic children] Ducroz V, et al. **Ann Otolaryngol Chir Cervicofac** 1997;114(1–2):36–40 (14 ref.) (Eng. Abstr.) **(Fre)**

[Acidosis in severe acute asthma] Lissac J. **Presse Med** 1996 Oct 19;25(31):1411–4 (21 ref.) (Eng. Abstr.) **(Fre)**

[Pattern of circulating eosinophils in allergic children suffering from infectious disease] Montesanti M, et al. **Minerva Pediatr** 1997 May;49(5):187–91 (Eng. Abstr.) **(Ita)**

[Clinical features of allergic granulomatosis and angiitis (Churg-Strauss syndrome). Association with asthma symptoms] Higashimoto I, et al. **Arerugi** 1996 Nov; 45(11):1154–60 (Eng. Abstr.) **(Jpn)**

[Epidural anesthesia for patients with bronchial asthma] Kasaba T, et al. **Masui** 1996 Oct;45(10):1260–4 (Eng. Abstr.) **(Jpn)**

[Combined spinal and epidural anesthesia for laparotomy in

a geriatric patient with severe obstructive lung disease] Yokoyama T, et al. **Masui** 1997 Mar;46(3):409–12 (Eng. Abstr.) **(Jpn)**

[Swyer–James syndrome with pneumomediastinum and subcutaneous emphysema due to bronchial asthma] Ando M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):898–903 (Eng. Abstr.) **(Jpn)**

[Pneumocystis pneumonia in patients with steroid–dependent asthma] Dziedziczko A, et al. **Pneumonol Alergol Pol** 1997; 65(5–6):399–405 (24 ref.) **(Pol)**

[Pulmonary function tests and bronchial reactiveness with histamine in patients with atopic dermatitis and bronchial asthma] Paluchowska E, et al. **Pol Merkuriusz Lek** 1996 Nov;1(5):313–5 (Eng. Abstr.) **(Pol)**

[The effect of co–existing diseases with cholelithiasis on the course and results of laparoscopic cholecystectomy] Modrzejewski A, et al. **Pol Tyg Lek** 1996 Apr; 51(14–18):200–2 (Eng. Abstr.) **(Pol)**

[Characteristics of the course of bronchial asthma in patients with associated diseases of the upper respiratory tract] Makolkin VI, et al. **Klin Med (Mosk)** 1996;74(3):39–42 (Eng. Abstr.) **(Rus)**

[Disseminated pulmonary process developing in concurrent diseases and their multimodal treatment] Parizhskiĭ ZM, et al. **Vestn Rentgenol Radiol** 1997 Mar–Apr;(2):41–3 **(Rus)**

[Asthma and cyclic neutropenia] Salazar Cabrera AN, et al. **Allergol Immunopathol (Madr)** 1996 Jan–Feb;24(1):25–8 (Eng. Abstr.) **(Spa)**

[Diarrhea and eosinophilia in a patient with bronchial asthma] Nevado N, et al. **Enferm Infecc Microbiol Clin** 1996 May; 14(5):327–8 **(Spa)**

[Asthma and gastroesophageal reflux. The importance of the anecdote and risks of inertia (editorial)] Ponce García J, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):165–6 **(Spa)**

DIAGNOSIS

Spirometry, bronchodilator test or symptom scoring for the assessment of childhood asthma. Linna O. **Acta Paediatr** 1996 May;85(5):564–9

Guidelines for the diagnosis and management of bronchial asthma. Committee on the Definition, Treatment, and Management of Bronchial Asthma. Japanese Society of Allergology. **Allergy** 1995;50(27 Suppl):1–42 (116 ref.)

Leukotriene E4 plasma levels in adult asthmatic patients with variable disease severity. Chavis C, et al. **Allergy** 1997 May; 52(5):589–92

Diagnostic significance of in vitro T–cell proliferative responses to house–dust mite Der p 1 in children with dust–mite allergy. Horneff G, et al. **Allergy** 1996 Nov; 51(11):842–6

Occupational asthma to amaryllis. Jansen AP, et al. **Allergy** 1996 Nov;51(11):847–9

Urinary eosinophil protein X in relation to disease activity in childhood asthma. Lugosi E, et al. **Allergy** 1997 May; 52(5):584–8

Can early asthma be confirmed by laboratory tests? [see comments] Metso T, et al. **Allergy** 1996 Apr;51(4):226–31 . Comment in: Allergy 1996 Apr;51(4):203–5.

Placebo–controlled challenges with perfume in patients with asthma–like symptoms. Millqvist E, et al. **Allergy** 1996 Jun; 51(6):434–9

Occupational asthma in poultry–slaughterhouse workers. Perfetti L, et al. **Allergy** 1997 May;52(5):594–5

Physical capacity and dyspnea in patients with asthma–like symptoms but negative asthma tests. Ringsberg KC, et al. **Allergy** 1997 May;52(5):532–40

Occupational asthma caused by fish inhalation. Rodríguez J, et al. **Allergy** 1997 Aug;52(8):866–9

A cost–effective approach to the diagnosis and treatment of the wheezing infant. Mamlok R. **Allergy Asthma Proc** 1997 May–Jun;18(3):149–52 (20 ref.)

NHLBI issues updated guidelines for the diagnosis and management of asthma. **Am Fam Physician** 1997 Aug; 56(2):621–3

Changes in peak flow, symptom score, and the use of medications during acute exacerbations of asthma. Chan–Yeung M, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):889–93

Corticosteroid reversibility in COPD is related to features of asthma. Chanez P, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1529–34

On adjusting measurements of airway responsiveness for lung size and airway caliber. Peat JK, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):870–5

Spontaneous and induced sputum to measure indices of airway inflammation in asthma. Pizzichini MM, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):866–9

Kinetics of the development and recovery of the lung from IgE–mediated inflammation: dissociation of pulmonary eosinophilia, lung injury, and eosinophil–active cytokines. Shaver JR, et al. **Am J Respir Crit Care Med** 1997 Feb; 155(2):442–8

Air pollution and respiratory health among children with asthmatic or cough symptoms. Timonen KL, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):546–52

Bronchial responsiveness to ultrasonic "fog" in occupational asthma due to low molecular weight chemicals. Dellabianca A, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):378–84

A wheezy infant unresponsive to bronchodilators [clinical conference] Go RO, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):449–56

Steroid–resistant asthma: evaluation and management. Nimmagadda SR, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):345–55; quiz 355–6 (76 ref.)

Incidence and prevalence of physician–diagnosed asthma in a suburban population of young adults. Ownby DR, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):304–8

New occupational allergen in a pharmaceutical industry: serratial peptidase and lysozyme chloride. Park HS, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):225–9

New guidelines for diagnosis and management of asthma [editorial] Sly RM. **Ann Allergy Asthma Immunol** 1997 May;78(5):427–37

Skin sensitization in asthmatic children less than 36 months of age. Song CH. **Ann Allergy Asthma Immunol** 1997 Sep; 79(3):273–6

The allergist as an educator: an evolving relationship between specialty and primary care clinicians [editorial] Squillace SP, et al. **Ann Allergy Asthma Immunol** 1996 Nov; 77(5):341–4 (16 ref.)

Spirometric testing in acute asthma [letter] Ben Zemenick R. **Ann Emerg Med** 1997 Sep;30(3):356

Clinical significance of cough and wheeze in the diagnosis of asthma. Kelly YJ, et al. **Arch Dis Child** 1996 Dec; 75(6):489–93

Asthma and panic disorder. Schmaling KB, et al. **Arch Fam Med** 1997 Jan–Feb;6(1):20–3

Interpretation of positive results of a methacholine inhalation challenge and 1 week of inhaled bronchodilator use in diagnosing and treating cough–variant asthma. Irwin RS, et al. **Arch Intern Med** 1997 Sep 22;157(17):1981–7

The role of the methacholine inhalation challenge in adult patients presenting with chronic cough. Wongtim S, et al. **Asian Pac J Allergy Immunol** 1997 Mar;15(1):9–14

A survey on the diagnosis and management of asthma in young children. Kourdoulos D, et al. **Aust Fam Physician** 1997 Jul;26 Suppl 2:S71–5

Incidence and prognosis of asthma to age 33. Respiratory sections of questionnaires are imprecise [letter; comment] Clifford R. **BMJ** 1996 Sep 28;313(7060):814; discussion 815 . Comment on: BMJ 1996 May 11;312(7040):1195–9.

Making the diagnosis of asthma [editorial] Taylor DR. **BMJ** 1997 Jul 5;315(7099):4–5

Spirometry in general practice: the performance of practice assistants scored by lung function technicians [see comments] den Otter JJ, et al. **Br J Gen Pract** 1997 Jan; 47(414):41–2. Comment in: Br J Gen Pract 1997 Apr;47(417):252–3.

Testing bronchial hyper–responsiveness: provocation or peak expiratory flow variability? den Otter JJ, et al. **Br J Gen Pract** 1997 Aug;47(421):487–92

Diagnosis of asthma and chronic obstructive airway disease [letter; comment] Goyal M, et al. **Br J Gen Pract** 1997 Jan;47(414):53–4. Comment on: Br J Gen Pract 1996 Mar;46(404):193–7.

Asthma in the child under five. Bush A. **Br J Hosp Med** 1996 Feb 7–20;55(3):110–4 (33 ref.)

Bronchial hyperresponsiveness and bronchial provocation tests. Myers JD, et al. **Br J Hosp Med** 1996 Feb 7–20; 55(3):107–10 (19 ref.)

Asthma in pregnancy. Nelson–Piercy C, et al. **Br J Hosp Med** 1996 Feb 7–20;55(3):115–7 (38 ref.)

Allergy testing in respiratory medicine. Varney VA, et al. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):406–8 (16 ref.)

Measurement of respiratory resistance in the emergency department: feasibility in young children with acute asthma. Ducharme FM, et al. **Chest** 1997 Jun;111(6):1519–25

A new index of prognostic severity for chronic asthma. Ellman MS, et al. **Chest** 1997 Sep;112(3):582–90

Methacholine challenge testing: safety of low starting FEV1. Asthma Clinical Research Network (ACRN). Martin RJ, et al. **Chest** 1997 Jul;112(1):53–6

Postesophagectomy mediastinal chylothorax causing upper airway obstruction misdiagnosed as asthma: a report of two cases. Theaker NJ, et al. **Chest** 1997 Apr;111(4):1126–8

Occupational asthma caused by triglycidyl isocyanurate (TGIC). Piirilä P, et al. **Clin Exp Allergy** 1997 May; 27(5):510–4

Pocket–sized spirometer for monitoring bronchial challenge procedures. Keskinen H, et al. **Clin Physiol** 1996 Nov; 16(6):633–43

National and international guidelines for the diagnosis and treatment of asthma. Nicklas RA. **Curr Opin Pulm Med** 1997 Jan;3(1):51–5 (28 ref.)

Asthma: an important disease to otolaryngologists—Part I: Suspecting and diagnosing asthma. Gordon BR. **Ear Nose Throat J** 1996 Feb;75(2):97–101 (29 ref.)

Adolescents with active or inactive epilepsy or asthma: a comparison of quality of life. Austin JK, et al. **Epilepsia** 1996 Dec;37(12):1228–38

A portable device based on the interrupter technique to measure bronchodilator response in schoolchildren [see comments] Bridge PD, et al. **Eur Respir J** 1996 Jul; 9(7):1368–73. Comment in: Eur Respir J 1997 Jun;10(6):1428–9.

Snoring: analysis, measurement, clinical implications and applications. Dalmasso F, et al. **Eur Respir J** 1996 Jan; 9(1):146–59 (92 ref.)

Comparison of two methods of collecting induced sputum in asthmatic subjects [see comments] Gershman NH, et al. **Eur Respir J** 1996 Dec;9(12):2448–53. Comment in: Eur Respir J 1996 Dec;9(12):2448–53.

Atopy, lung function and bronchial responsiveness in symptom–free paediatric asthma patients. Gruber W, et al. **Eur Respir J** 1997 May;10(5):1041–5

Eosinophils and eosinophil–derived proteins in children with moderate asthma. Hoekstra MO, et al. **Eur Respir J** 1996 Nov;9(11):2231–5

Repeatability of cellular and soluble markers of inflammation in induced sputum from patients with asthma [see comments] in 't Veen JC, et al. **Eur Respir J** 1996 Dec; 9(12):2441–7. Comment in: Eur Respir J 1996 Dec;9(12):2435–6.

Hydrogen peroxide in exhaled air is increased in stable asthmatic children. Jöbsis Q, et al. **Eur Respir J** 1997 Mar; 10(3):519–21

Measurement of the specific airway resistance by plethysmography in young children accompanied by an adult. Klug B, et al. **Eur Respir J** 1997 Jul;10(7):1599–605

Changing prevalence of asthma in school children: evidence for diagnostic changes in asthma in two surveys 13 yrs apart. Nystad W, et al. **Eur Respir J** 1997 May; 10(5):1046–51

Induced sputum to assess airway inflammation in asthma [editorial; comment] O'Byrne PM, et al. **Eur Respir J** 1996 Dec;9(12):2435–6. Comment on: Eur Respir J 1996 Dec;9(12):2441–7. Comment on: Eur Respir J 1996 Dec;9(12):2448–53.

Evaluation of a new interrupter device for measuring bronchial responsiveness and the response to bronchodilator in 3 year old children [see comments] Phagoo SB, et al. **Eur Respir J** 1996 Jul;9(7):1374–80. Comment in: Eur Respir J 1997 Jun;10(6):1428–9.

Variability of markers of airway inflammation in BAL [letter; comment] Pizzichini E, et al. **Eur Respir J** 1996 Dec; 9(12):2700–1. Comment on: Eur Respir J 1995 Nov;8(11):1866–71.

Variability in airway inflammation sampled by bronchoalveolar lavage [letter] Ruffin RE. **Eur Respir J** 1996 Aug;9(8):1766–7; 1996 discussion

Measurement characteristics of two asthma symptom diary scales for use in clinical trials. Santanello NC, et al. **Eur Respir J** 1997 Mar;10(3):646–51

Chronic cough and wheeze in children: do they all have asthma? Seear M, et al. **Eur Respir J** 1997 Feb;10(2):342–5

Improvement of tidal breathing pattern analysis in children with asthma by on–line automatic data processing. van der Ent CK, et al. **Eur Respir J** 1996 Jun;9(6):1306–13

Comparison of bronchial challenge with ultrasonic nebulized distilled water and hypertonic saline in children with mild–to–moderate asthma. Wojnarowski C, et al. **Eur Respir J** 1996 Sep;9(9):1896–901

Measurement of peak flow variability in community populations: methodology. Britton J. **Eur Respir J Suppl** 1997 Feb;24:42S–44S

The relationship between peak expiratory flow and respiratory symptoms. Burge PS. **Eur Respir J Suppl** 1997 Feb;24:67S–68S

Serial peak expiratory flow measurement in the diagnosis of occupational asthma. Gannon PF, et al. **Eur Respir J Suppl** 1997 Feb;24:57S–63S (32 ref.)

Inflammatory markers of outcome. Grigg J, et al. **Eur Respir J Suppl** 1996 Apr;21:16s–21s (31 ref.)

Environmental factors in PEF variability. Paoletti P, et al. **Eur Respir J Suppl** 1997 Feb;24:64S–66S

Peak expiratory flow: conclusions and recommendations of a Working Party of the European Respiratory Society. Quanjer PH, et al. **Eur Respir J Suppl** 1997 Feb;24:2S–8S (74 ref.)

Use of peak expiratory flow meters in adults: practical aspects. Sears MR. **Eur Respir J Suppl** 1997 Feb;24:72S–74S

Relationship between change in PEF and symptoms: questions to ask in paediatric clinics. Sly PD. **Eur Respir J Suppl** 1997 Feb;24:80S–83S

Asthma: a six–part strategy for managing older patients. Smyrnios NA. **Geriatrics** 1997 Feb;52(2):36–40, 42–4 (25 ref.)

The role of history taking in the diagnosis of asthma. Stoloff SW. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):155–6

Superior mediastinal mass in a 14–year–old male child. Gaur SN, et al. **Indian J Chest Dis Allied Sci** 1996 Jul–Sep; 38(3):191–5

Asthma and wheeze in schoolchildren. Taylor MR, et al. **Ir Med J** 1996 Jan–Feb;89(1):34–5

Asthma management [letter; comment] Goodacre SW, et al. **J Accid Emerg Med** 1996 Sep;13(5):366. Comment on: J Accid Emerg Med 1996 Mar;13(2):93–7.

Quantitative bronchial challenge tests with wheat flour dust administered by spinhaler: comparison with aqueous wheat flour extract inhalation. Merget R, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):199–207

Measuring airway inflammation in asthma: eosinophils and eosinophilic cationic protein in induced sputum compared with peripheral blood. Pizzichini E, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):539–44

Development and validation of a rhinoconjunctivitis and asthma symptom score for use as an outcome measure in clinical trials. Wasserfallen JB, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):16–22

Detection of eosinophils in hypertonic saline–induced sputum in patients with chronic nonproductive cough. Fujimura M, et al. **J Asthma** 1997;34(2):119–26

Comparison between peak expiratory flow and forced expiratory volume in one second (FEV1) during

bronchoconstriction induced by different stimuli. Giannini D, et al. **J Asthma** 1997;34(2):105–11

Comparison of sputum and serum eosinophil cationic protein (ECP) levels in nonatopic asthma and chronic obstructive pulmonary disease. Gürsel G, et al. **J Asthma** 1997; 34(4):313–9

A minimal response to albuterol challenge does not exclude a diagnosis of asthma. Plaut TF, et al. **J Asthma** 1997; 34(3):255–6

Laboratory and clinical evaluation of a portable computerized peak flow meter. Quirce S, et al. **J Asthma** 1997;34(4):305–12

Comparison of three definitions of asthma: a longitudinal perspective. Toelle BG, et al. **J Asthma** 1997;34(2):161–7

Partial effective time (teffp7): a new spirometric parameter for lung function assessment [published erratum appears in J Int Med Res 1996 Jul–Aug;24(4):387] Tatsis G, et al. **J Int Med Res** 1996 May–Jun;24(3):284–90

Comparative study between skin prick tests and TOP–CAST allergen leukocyte stimulation in diagnosis of allergic status. Mędrala W, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):115–8

Quantitative skin prick tests and serum IgE antibodies in atopic asthmatics. Rosario NA, et al. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):40–5

Expired nitric oxide as a marker for childhood asthma. Nelson BV, et al. **J Pediatr** 1997 Mar;130(3):423–7

Asthma: confidence in definition and diagnosis? Wiggins J. **J Pharm Pharmacol** 1997 May;49 Suppl 3:5–7 (17 ref.)

Screening to help asthmatics breathe easier [news] Skolnick AA. **JAMA** 1997 Jun 25;277(24):1921

Methacholine dose–response slopes from maximal bronchial challenge tests in asthmatic children: methodological aspects. Gamboa T, et al. **Lung** 1997;175(4):243–52

Application of multivariate linear discriminant analysis to lung sounds in some pulmonary diseases. Celebi G, et al. **Monaldi Arch Chest Dis** 1996 Feb;51(1):42–9

Eosinophil cationic protein in induced sputum as a marker of inflammation in asthmatic children. Sorva R, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):45–50

Vocal cord dysfunction presenting as acute asthma in a pediatric patient. Poirier MP, et al. **Pediatr Emerg Care** 1996 Jun;12(3):213–4 (14 ref.)

Hopkins syndrome associated with Mycoplasma infection. Acharya AB, et al. **Pediatr Neurol** 1997 Jan;16(1):54–5 (15 ref.)

Respiratory system reactance as an indicator of the intrathoracic airway response to methacholine in children. Bouaziz N, et al. **Pediatr Pulmonol** 1996 Jul;22(1):7–13

Effect of capsaicin on airway responsiveness to hypertonic saline challenge in asthmatic and non–asthmatic children. Chang AB, et al. **Pediatr Pulmonol** 1997 Jun;23(6):412–6

Repeatability of methacholine challenges in 2– to 4–year–old children with asthma, using a new technique for quantitative delivery of aerosol. Klug B, et al. **Pediatr Pulmonol** 1997 Apr;23(4):278–86

Asthma: too much diagnosis and too much medicine [letter; comment] Giannini AV. **Pediatrics** 1996 Oct;98(4 Pt 1):800–1. Comment on: Pediatrics 1993 Jul;92(1):144–6.

All that wheezes is not asthma. Goldman J. **Practitioner** 1997 Jan;241(1570):35–8 (6 ref.)

Lung auscultation in airway challenge testing. Purohit A, et al. **Respir Med** 1997 Mar;91(3):151–7

Adenosine monophosphate and histamine induced bronchoconstriction: repeatability and protection by terbutaline. Egbagbe E, et al. **Thorax** 1997 Mar; 52(3):239–43

Bronchiolitis and asthma in infancy and early childhood. Godfrey S. **Thorax** 1996 Aug;51 Suppl 2:S60–4 (34 ref.)

Standardization of methacholine inhalation challenge. Sekerel BE, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):165–72

[Diagnosis and treatment of recurrent coughing and wheezing in children younger than 4 years old] Brand PL, et al. **Ned Tijdschr Geneeskd** 1997 Mar 8;141(10):464–7 (Eng. Abstr.) **(Dut)**

[Acute asthma in children; guidelines by pediatric pulmonologists for diagnosis and treatment] van Nierop JC, et al. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):520–4 (Eng. Abstr.) **(Dut)**

[How to get evidence of the bronchial obstruction in a child?] Malmberg P, et al. **Duodecim** 1995;111(16):1623–9 **(Fin)**

[Use of inflammatory protein in asthma diagnosis] Metso T, et al. **Duodecim** 1995;111(16):1616–22 (27 ref.) **(Fin)**

[Severe asthma in children] Majdalani PE. **J Med Liban** 1995; 43(2):83–8 (23 ref.) **(Fre)**

[Moderate asthma in adults: diagnosis and management in general medical practice] Vernejoux JM, et al. **Rev Mal Respir** 1996 Oct;13(5):499–505 (Eng. Abstr.) **(Fre)**

[Peak flow measurement from the pediatric viewpoint] Gruber W, et al. **Klin Padiatr** 1997 Jan–Feb;209(1):11–7 (Eng. Abstr.) **(Ger)**

[Vocal cord dysfunction, an important differential diagnosis of severe and implausible bronchial asthma] Kenn K, et al. **Pneumologie** 1997 Jan;51(1):14–8 (Eng. Abstr.) **(Ger)**

[Bronchial asthma] Magnussen H. **Pneumologie** 1996 Sep;50 Suppl 2:578–81 (14 ref.) **(Ger)**

[Serologic and skin test diagnosis of birch pollen allergy with recombinant Bet v 1, the chief allergen of birch] Menz G, et al. **Pneumologie** 1996 Sep;50(9):632–40 (Eng. Abstr.) **(Ger)**

[Diagnosis of ABPA during a life–threatening asthma attack] Meyer A, et al. **Pneumologie** 1996 Jun;50(6):428–9 (Eng. Abstr.) **(Ger)**

[Tachyphylaxis of airway response to inhaled bradykinin over several days] Schmidt D, et al. **Pneumologie** 1996 Nov; 50(11):779–82 (Eng. Abstr.) **(Ger)**

[Not all coughing is asthma––on differential bronchial asthma diagnosis in childhood] Leupold W. **Wien Med Wochenschr** 1996;146(15):419–22 (9 ref.) (Eng. Abstr.) **(Ger)**

[Bronchial asthma in childhood] Hofmann D, et al. **Z Arztl Fortbild Qualitatssich** 1997 Jun;91(3):251–6 (7 ref.) (Eng. Abstr.) **(Ger)**

[Carinal, adenoid, cystic carcinoma mimicking bronchial asthma] Weizman Y, et al. **Harefuah** 1996 Aug; 131(3–4):90–2, 143 (Eng. Abstr.) **(Heb)**

[A comparative study of MAST and CAP RAST with 90 patients with bronchial asthma] Mita S, et al. **Arerugi** 1995 Dec;44(12):1394–400 (Eng. Abstr.) **(Jpn)**

[Optimal time of the day for measuring peak expiratory flow rates in patients with asthma] Iwasaki Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):885–9 (Eng. Abstr.) **(Jpn)**

[Meanings of the clinical parameters of airway hyperresponsiveness] Munakata M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:42–7 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Methods of evaluating airway inflammation] Mita S, et al. **Nippon Rinsho** 1996 Nov;54(11):2898–902 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Effectiveness of PEF monitoring in chronic management of asthma patients] Takishima T, et al. **Nippon Rinsho** 1996 Nov;54(11):2919–26 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Function testing of bronchial responsiveness] Tohda Y, et al. **Nippon Rinsho** 1996 Nov;54(11):2903–7 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Function testing of bronchial responsiveness] Tohda Y, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:55–7 (3 ref.) **(Jpn)**

[Bronchial inhalation challenge with antigens] Tohda Y, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:58–61 (5 ref.) **(Jpn)**

[The usefulness of certain diagnostic tests for diagnosis of bronchial asthma in epidemiologic investigations] Dziedziczko A. **Pneumonol Alergol Pol** 1997;65(1–2):11–8 (Eng. Abstr.) **(Pol)**

[The influence of multiple histamine inhalation on nonspecific airway hyperresponsiveness to histamine in patients with bronchial asthma] Kroczyńska–Bednarek J, et al. **Pneumonol Alergol Pol** 1997;65(1–2):19–26 (Eng. Abstr.) **(Pol)**

[Chronic cough as the sole symptom of bronchial asthma. Corrao syndrome] Zielińska–Wyderkiewicz E, et al. **Pneumonol Alergol Pol** 1996;64(5–6):352–8 (31 ref.) **(Pol)**

[Analysis of measurements: arterial blood pressure, pulse rate and oxygen saturation in arterial blood during broncho–fibroscopy and bronchoalveolar lavage in patients with bronchial asthma and chronic bronchitis] Jahnz–Różyk K, et al. **Pol Merkuriusz Lek** 1996 Jul; 1(1):18–21 (Eng. Abstr.) **(Pol)**

[Gas chromatographic analysis of lipids in exhaled air condensate in children with bronchopulmonary diseases] Iatsenko VP, et al. **Klin Lab Diagn** 1997 Apr;(4):16–7 (Eng. Abstr.) **(Rus)**

[The diagnosis of allergy to industrial chemical compounds using a method of immunothermistometry] Zaĭkov SV, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):148–50 (Eng. Abstr.) **(Rus)**

[The in–vivo test of the inhibition of leukocyte natural migration with aspirin and analgin in the specific diagnosis of the asthmatic triad] Kanchurina NA, et al. **Ter Arkh** 1996;68(12):25–8 (Eng. Abstr.) **(Rus)**

[Differential diagnosis of bronchial asthma and chronic obstructive lung diseases. Current recommendations for the treatment of bronchial asthma and chronic obstructive lung diseases] Kummer F. **Ter Arkh** 1995;67(12):66–71 **(Rus)**

[R proteins in the assessment of the inflammation in bronchial asthma] Moskalev MN. **Ter Arkh** 1997;69(3):26–7 (Eng. Abstr.) **(Rus)**

[Eosinophil cationic protein in the asthmatic infant: correlation with the clinic and pulmonary function] Villa Asensi JR, et al. **An Esp Pediatr** 1996 Nov;45(5):479–82 (Eng. Abstr.) **(Spa)**

[Relationship between peak expiratory flow and clinical exploration and arterial gas analysis in assessing the severity of an asthma attack] Fábregas ML, et al. **Arch Bronconeumol** 1996 Jan;32(1):4–9 (Eng. Abstr.) **(Spa)**

[Asthma or asthma–like condition?] Löwhagen O, et al. **Nord Med** 1997 Apr;112(4):119–21 (Eng. Abstr.) **(Swe)**

DIET THERAPY

Reduced asthma symptoms with n–3 fatty acid ingestion are related to 5–series leukotriene production. Broughton KS, et al. **Am J Clin Nutr** 1997 Apr;65(4):1011–7

[Absolute diet therapy and antibiotic tolerance in bronchial asthma patients] Fedoseev GB, et al. **Ter Arkh** 1996; 68(8):28–31 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Magnesium attenuates the neutrophil respiratory burst in adult asthmatic patients [see comments] Cairns CB, et al. **Acad Emerg Med** 1996 Dec;3(12):1093–7. Comment in: Acad Emerg Med 1996 Dec;3(12):1082–4. Comment in: Acad Emerg Med 1996 Dec;3(12):1084–5.

Why magnesium for asthma? [editorial; comment] Cydulka RK. **Acad Emerg Med** 1996 Dec;3(12):1084–5. Comment on: Acad Emerg Med 1996 Dec;3(12):1093–7.

Efficacy of atropine sulfate in combination with albuterol in the treatment for acute asthma. Díaz JE, et al. **Acad Emerg Med** 1997 Feb;4(2):107–13

The effects of combined intravenous and inhaled steroids (beclomethasone dipropionate) for the emergency treatment of acute asthma. The Asthma ED Study Group. Guttman A, et al. **Acad Emerg Med** 1997 Feb;4(2):100–6

Continuous vs intermittent nebulized albuterol for emergency management of asthma. Khine H, et al. **Acad Emerg Med** 1996 Nov;3(11):1019–24

An ion for the lungs [editorial; comment] Skobeloff EM. **Acad Emerg Med** 1996 Dec;3(12):1082–4 (15 ref.). Comment on: Acad Emerg Med 1996 Dec;3(12):1093–7.

Inaccuracy of portable peak flow meters: correction is not needed. Dutch CNSLD Study Group. Brand PL, et al. **Acta Paediatr** 1997 Aug;86(8):888–9

Growth of asthmatic children is slower during than before treatment with inhaled glucocorticoids. Saha MT, et al. **Acta Paediatr** 1997 Feb;86(2):138–42

Changes in bone markers in children with asthma during inhaled budesonide and nedocromil treatments. Sorva R, et al. **Acta Paediatr** 1996 Oct;85(10):1176–80

Efficacy of salmeterol in the treatment of childhood asthma. Tomaç N, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):489–94

Effect of a potent platelet–activating factor antagonist, WEB–2086, on asthma. A multicenter, double–blind placebo–controlled study in Japan. Tamura G, et al. **Adv Exp Med Biol** 1996;416:371–80

Biosynthesis inhibitors for leukotrienes in bronchial asthma. Negro JM, et al. **Allergol Immunopathol (Madr)** 1997 Jul–Aug;25(4):209–16 (48 ref.)

Comparison of three different oral corticosteroids in steroid–dependent asthma patients. Chanez P, et al. **Allergy** 1996 Nov;51(11):850–1

Are respiratory infections more frequent in glucocorticoid–dependent asthmatic patients? [editorial; comment] Demoly P, et al. **Allergy** 1997 Feb;52(2):122–3 (17 ref.). Comment on: Allergy 1997 Feb;52(2):144–54.

Aggressive treatment of childhood asthma with local steroids. Good or bad? Foucard T. **Allergy** 1996 Jun; 51(6):367–71 (52 ref.)

Effects of ketotifen on symptoms and on bronchial mucosa in patients with atopic asthma. Hoshino M, et al. **Allergy** 1997 Aug;52(8):814–20

Ex vivo pharmacologic modulation of basophil histamine release in asthmatic patients. Lebel B, et al. **Allergy** 1996 Jun;51(6):394–400

Antihistamines in the treatment of asthma. Malick A, et al. **Allergy** 1997;52(34 Suppl):55–66 (120 ref.)

Suppression of the immune system by oral glucocorticoid therapy in bronchial asthma [see comments] Oehling AG, et al. **Allergy** 1997 Feb;52(2):144–54. Comment in: Allergy 1997 Feb;52(2):122–3.

A comparison of the efficacy and safety of inhaled corticosteroids in asthma. Pedersen S, et al. **Allergy** 1997; 52(39 Suppl):1–34 (173 ref.)

Sodium cromoglycate as a replacement for inhaled corticosteroids in mild–to–moderate childhood asthma. Petersen W, et al. **Allergy** 1996 Dec;51(12):870–5

Formoterol inhaled as dry powder or via pressurized metered–dose inhaler in a cumulative dose–response study. Ullman A, et al. **Allergy** 1996 Oct;51(10):745–8

Serum eosinophil cationic protein (ECP) as a marker of disease activity and treatment efficacy in seasonal asthma. Vatrella A, et al. **Allergy** 1996 Aug;51(8):547–55

Theophylline revisited. D'Alonzo GE. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):335–9 (58 ref.)

Inhalational therapy in asthma. Oppenheimer J. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):351–3 (21 ref.)

The role of glucocorticoids in the management of asthma. Spahn JD, et al. **Allergy Asthma Proc** 1996 Nov–Dec; 17(6):341–50 (39 ref.)

Treatment of the unusually difficult asthmatic patient. Spector SL. **Allergy Asthma Proc** 1997 May–Jun; 18(3):153–5 (17 ref.)

Salmeterol in the treatment of chronic asthma. D'Alonzo GE, et al. **Am Fam Physician** 1997 Aug;56(2):558–62 (30 ref.)

Magnesium sulfate therapy in certain emergency conditions. Frakes MA, et al. **Am J Emerg Med** 1997 Mar;15(2):182–7 (81 ref.)

Metered dose inhaler salbutamol treatment of asthma in the ED: comparison of two doses with plasma levels. Rodrigo G, et al. **Am J Emerg Med** 1996 Mar;14(2):144–50

Confounding by indication and channeling over time: the risks of beta 2–agonists. Blais L, et al. **Am J Epidemiol** 1996 Dec 15;144(12):1161–9

Asthma group issues guidelines for safe use of salmeterol [news] **Am J Health Syst Pharm** 1996 Dec 15;53(24):2943–4

Antileukotriene therapy for asthma. Larsen JS, et al. **Am J Health Syst Pharm** 1996 Dec 1;53(23):2821–30; quiz 2877–8 (100 ref.)

Isoetherine or albuterol for acute asthma [letter; comment]

Finkelstein F. **Am J Med** 1997 Jan;102(1):130. Comment on: Am J Med 1996 Mar;100(3):323–7.

The influence of parasympatholytics on the resolution of acute attacks of asthma. McFadden ER Jr, et al. **Am J Med** 1997 Jan;102(1):7–13

Improving ambulatory management of asthmatic patients [letter; comment] Ruffin DM, et al. **Am J Med** 1997 Aug; 103(2):168–70. Comment on: Am J Med 1996 Apr;100(4):381–2.

Decreased Cu,Zn–SOD activity in asthmatic airway epithelium: correction by inhaled corticosteroid in vivo. De Raeve HR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L148–54

Corticosteroid Action and Resistance in Asthma. Proceedings of a meeting. Buckinghamshire, United Kingdom, October 1995. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S1–79

Steroid resistance in asthma. Molecular mechanisms. Adcock IM. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S58–61 (30 ref.)

Mechanisms of action of glucocorticoids in asthma. Barnes PJ. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S21–6; discussion S26–7 (36 ref.)

Is there a role for immunotherapy in the treatment of asthma? No [editorial] Barnes PJ. **Am J Respir Crit Care Med** 1996 Nov;154(5):1227–8

Current management of asthma patients with corticosteroid resistance. Busse WW, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S70–2; discussion S72–3 (16 ref.)

Endothelin–1–induced bronchoconstriction in asthma. Chalmers GW, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):382–8

Changes in peak flow, symptom score, and the use of medications during acute exacerbations of asthma. Chan–Yeung M, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):889–93

Glucocorticoid–resistant asthma. T–lymphocyte defects. Corrigan CJ. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S53–5; discussion S55–7 (20 ref.)

The effect of treatment with oral corticosteroids on asthma symptoms and airway inflammation. Djukanović R, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):826–32

Effects of a potent platelet–activating factor antagonist, SR27417A, on allergen–induced asthmatic responses. Evans DJ, et al. **Am J Respir Crit Care Med** 1997 Jul; 156(1):11–6

Endothelin production and effects of endothelin antagonism during experimental airway inflammation. Finsnes F, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1404–12

Fluticasone propionate in children with moderate asthma. Hoekstra MO, et al. **Am J Respir Crit Care Med** 1996 Oct; 154(4 Pt 1):1039–44

Effects of inhaled and oral glucocorticoids on inflammatory indices in asthma and COPD. Keatings VM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):542–8

Corticosteroid resistance in other disease states and tissues. Lane SJ, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S62–5 (15 ref.)

Mononuclear cells in corticosteroid–resistant asthma. Lane SJ, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S49–51; discussion S52 (17 ref.)

Identifying patients at risk from the use of beta–adrenergic agonists [editorial; comment] Leff AR. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1593. Comment on: Am J Respir Crit Care Med 1996 Dec;154(6 Pt 1):1598–1602.

Induction of corticosteroid resistance in vitro. Leung DY, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S34–7; discussion S37–8 (32 ref.)

Nebulized glutathione induces bronchoconstriction in patients with mild asthma. Marrades RM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):425–30

Effect of short–term treatment with low–dose inhaled fluticasone propionate on airway inflammation and remodeling in mild asthma: a placebo–controlled study. Olivieri D, et al. **Am J Respir Crit Care Med** 1997 Jun; 155(6):1864–71

The epithelium as a target of glucocorticoid action in the treatment of asthma. Schwiebert LM, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S16–9; discussion S19–20 (35 ref.)

Bronchodilators and acute cardiac death [letter; comment] Sears MR. **Am J Respir Crit Care Med** 1997 Jul;156(1):333 . Comment on: Am J Respir Crit Care Med 1996 Dec;154(6 Pt 1):1598–602.

Inhaled salmeterol or oral theophylline in nocturnal asthma? Selby C, et al. **Am J Respir Crit Care Med** 1997 Jan; 155(1):104–8

Observations on the effects of aerosolized albuterol in acute asthma. Strauss L, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):454–8

Bronchodilators and acute cardiac death [see comments] Suissa S, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1598–602. Comment in: Am J Respir Crit Care Med 1996 Dec;154(6 Pt 1):1593. Comment in: Am J Respir Crit Care Med 1997 Jul;156(1):333.

Leukotriene antagonist prevents exacerbation of asthma during reduction of high–dose inhaled corticosteroid. The Tokyo Joshi–Idai Asthma Research Group. Tamaoki J, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1235–40

Systemic corticosteriod rapidly reverses bronchodilator subsensitivity induced by formoterol in asthmatic patients. Tan KS, et al. **Am J Respir Crit Care Med** 1997 Jul; 156(1):28–35

Fluticasone propionate, salmeterol xinafoate, and their combination in the treatment of nocturnal asthma. Weersink EJ, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1241–6

Corticosteroid–resistant asthma. Definitions. Woolcock AJ. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S45–8

An inhaled glucocorticoid does not prevent tolerance to the bronchoprotective effect of a long–acting inhaled beta 2–agonist. Yates DH, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1603–7

Intravenous magnesium sulphate in the management of refractory bronchospasm in a ventilated asthmatic. Mills R, et al. **Anaesthesia** 1997 Aug;52(8):782–5

Asthma self care efficacy and morbidity in polyclinic outpatients. Lee KA, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):846–50

Inhaled drugs for treatment of asthma: nothing is ever as simple as it seems [editorial] Ahrens RC. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):260–2

Albuterol via Turbuhaler versus albuterol via pressurized metered–dose inhaler in asthma. Chapman KR, et al. **Ann Allergy Asthma Immunol** 1997 Jan;78(1):59–63

The current dilemma with spirometric inclusion criteria for asthma drug trials [see comments] Cockcroft DW, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):226–8. Comment in: Ann Allergy Asthma Immunol 1997 Sep;79(3):173–5.

Steroid–resistant asthma: evaluation and management. Nimmagadda SR, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):345–55; quiz 355–6 (76 ref.)

A comparison of bronchodilator responses to albuterol delivered by ultrasonic versus jet nebulization in moderate to severe asthma. Pallares DE, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):292–7

Comparative efficacy and safety of twice daily fluticasone propionate powder versus placebo in the treatment of moderate asthma. Pearlman DS, et al. **Ann Allergy Asthma Immunol** 1997 Apr;78(4):356–62

Salmeterol versus theophylline in the treatment of asthma. Pollard SJ, et al. **Ann Allergy Asthma Immunol** 1997 May; 78(5):457–64

Effect of inhaled furosemide and cromolyn on bronchoconstriction induced by ultrasonically nebulized distilled water in asthmatic subjects. Siffredi M, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):238–43

Urinary N–methylhistamine in asthmatic children receiving azelastine hydrochloride. Takei S, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):492–6

Intravenous versus oral corticosteroids in the management of acute asthma in children. Barnett PL, et al. **Ann Emerg Med** 1997 Feb;29(2):212–7

Refractory asthma, Part 1: Epidemiology, pathophysiology, pharmacologic interventions. Jagoda A, et al. **Ann Emerg Med** 1997 Feb;29(2):262–74 (159 ref.)

Efficacy of nebulized ipratropium in severely asthmatic children. Qureshi F, et al. **Ann Emerg Med** 1997 Feb; 29(2):205–11

Corticosteroids and asthma in children [letter] Singer AJ. **Ann Emerg Med** 1997 Sep;30(3):355–6

Update in allergy and immunology. Condemi JJ. **Ann Intern Med** 1996 Nov 1;125(9):744–50 (2 ref.)

Antileukotrienes in the treatment of asthma. O'Byrne PM, et al. **Ann Intern Med** 1997 Sep 15;127(6):472–80 (109 ref.)

Effectiveness of the leukotriene receptor antagonist zafirlukast for mild–to–moderate asthma. A randomized, double–blind, placebo–controlled trial. Suissa S, et al. **Ann Intern Med** 1997 Feb 1;126(3):177–83

Basic aspects of vasorelaxant and bronchodilating peptides in clinical use: urodilatin (INN: Ularitide), VIP, and PACAP. Meyer M, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:443–61; discussion 461–3 (104 ref.)

Effect of inhaled corticosteroids on the risk of cataract formation in patients with steroid–dependent asthma. Barenholtz H. **Ann Pharmacother** 1996 Nov;30(11):1324–7

Zileuton: a new therapy for asthma or just the first of a new class of drugs [comment] Hendeles L, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):873–5. Comment on: Ann Pharmacother 1996 Jul–Aug;30(7–8):858–64.

Zafirlukast for chronic asthma: convenient and generally safe, but is it effective? [comment] Hendeles L, et al. **Ann Pharmacother** 1997 Sep;31(9):1084–6 (21 ref.). Comment on: Ann Pharmacother 1997 Sep;31(9):1012–21.

Zafirlukast: the first leukotriene–receptor antagonist approved for the treatment of asthma [see comments] Kelloway JS. **Ann Pharmacother** 1997 Sep;31(9):1012–21 (43 ref.). Comment in: Ann Pharmacother 1997 Sep;31(9):1084–6.

Zileuton: the first 5–lipoxygenase inhibitor for the treatment of asthma [see comments] Wenzel SE, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):858–64 (34 ref.). Comment in: Ann Pharmacother 1996 Jul–Aug;30(7–8):873–5.

Epogam evening primrose oil treatment in atopic dermatitis and asthma. Hederos CA, et al. **Arch Dis Child** 1996 Dec; 75(6):494–7

Effects of inhaled steroid treatment on serum eosinophilic cationic protein (ECP) and low affinity receptor for IgE (Fc epsilon RII/sCD23) in childhood bronchial asthma. Türktaş I, et al. **Arch Dis Child** 1996 Oct;75(4):314–8

Monoclonal antibody analysis of glomerular and renal interstitial immune cells in steroid–resistant and steroid–responsive minimal change disease in children. Wągrowska–Danilewicz M, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2–3):165–70

Interpretation of positive results of a methacholine inhalation challenge and 1 week of inhaled bronchodilator use in diagnosing and treating cough–variant asthma. Irwin RS, et al. **Arch Intern Med** 1997 Sep 22;157(17):1981–7

Guidelines and realities of asthma management. The Philadelphia story. Lang DM, et al. **Arch Intern Med** 1997 Jun 9;157(11):1193–200

Leukotrienes in asthma. The potential therapeutic role of antileukotriene agents. Smith LJ. **Arch Intern Med** 1996 Oct 28;156(19):2181–9 (95 ref.)

Specialty differences in the management of asthma. A cross–sectional assessment of allergists' patients and generalists' patients in a large HMO. Vollmer WM, et al. **Arch Intern Med** 1997 Jun 9;157(11):1201–8

Metered–dose inhaler accessory devices in acute asthma: efficacy and comparison with nebulizers: a literature review. Amirav I, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):876–82 (60 ref.)

Antipyretic effect of Lumbricus spencer in acetylsalicylic acid–induced asthma. Kurosawa M, et al. **Arzneimittelforschung** 1996 Feb;46(2):172–4

Comparison of bronchodilating effects of two salbutamol dry powder inhalers in asthmatic patients. Laurikainen K, et al. **Arzneimittelforschung** 1997 Jan;47(1):44–6

Effectiveness of the anticholinergic agent oxitropium bromide in elderly patients with bronchial asthma. Shioya T, et al. **Arzneimittelforschung** 1996 Dec;46(12):1130–3

Bronchial responsiveness of aged asthmatic patients to bronchodilator and methacholine. Chuang CC, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):1–4

The START study: inhaled steroid treatment as regular therapy in early asthma. **Aust Fam Physician** 1996 Nov; 25(11):1675

Options in asthma management. Adams R, et al. **Aust Fam Physician** 1996 Mar;25(3):309–15 (8 ref.)

Do patients with asthma fill their prescriptions? [letter] Holberton P. **Aust Fam Physician** 1997 Jul;26 Suppl 2:S112

A survey on the diagnosis and management of asthma in young children. Kourdoulos D, et al. **Aust Fam Physician** 1997 Jul;26 Suppl 2:S71–5

Do patients with asthma fill their prescriptions? A primary compliance study. Watts RW, et al. **Aust Fam Physician** 1997 Jan;26 Suppl 1:S4–6

Adult asthma and gastro–oesophageal reflux: the effects of omeprazole therapy on asthma. Teichtahl H, et al. **Aust N Z J Med** 1996 Oct;26(5):671–6

Significance of the therapeutic range of serum theophylline concentration in the treatment of an attack of bronchial asthma. Nakahara Y, et al. **Biol Pharm Bull** 1996 May; 19(5):710–5

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. Prescribing data need to be available by age [letter; comment] Baumer JH. **BMJ** 1997 Mar 1;314(7081):681; discussion 682. Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

Several studies have shown salmeterol to be more potent than salbutamol for systemic effects [letter; comment] Bennett J, et al. **BMJ** 1997 Jul 12;315(7100):121. Comment on: BMJ 1997 Apr 12;314(7087):1061–2.

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. More adequate information systems are needed [letter; comment] Currie CJ, et al. **BMJ** 1997 Mar 1;314(7081):681; discussion 682 . Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. Outcome measures need to reflect morbidity and quality of care [letter; comment] Griffiths C, et al. **BMJ** 1997 Mar 1;314(7081):681–2. Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

New guidelines on asthma management [editorial] Keeley D, et al. **BMJ** 1997 Feb 1;314(7077):315–6

Spacer devices in the treatment of asthma [editorial] [see comments] O'Callaghan C, et al. **BMJ** 1997 Apr 12; 314(7087):1061–2. Comment in: BMJ 1997 Jul 12;315(7100):121.

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. Authors discuss a result that was not shown [letter; comment] Roberts SJ. **BMJ** 1997 Mar 1;314(7081):680–1; discussion 682. Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

Is the ratio of inhaled corticosteroid to bronchodilator a good indicator of the quality of asthma prescribing? Cross sectional study linking prescribing data to data on admissions [see comments] Shelley M, et al. **BMJ** 1996 Nov 2;313(7065):1124–6. Comment in: BMJ 1997 Mar 1;314(7081):680–1; discussion 682. Comment in: BMJ 1997 Mar 1;314(7081):681; discussion 682. Comment in: BMJ 1997 Mar 1;314(7081):681–2.

Effect of long–term treatment with salmeterol on asthma control: a double blind, randomised crossover study. Wilding P, et al. **BMJ** 1997 May 17;314(7092):1441–6

Equivalence of asthma control with new CFC–free formulation HFA–134a beclomethasone dipropionate and CFC–beclomethasone dipropionate [published erratum appears in Br J Clin Pract 1997 Mar;51(2):124] Dahl R, et al. **Br J Clin Pract** 1997 Jan–Feb;51(1):11–5

Seventy–two hour comparison of methylprednisolone

suleptanate and methylprednisolone sodium succinate in patients with acute asthma. Muir JF, et al. **Br J Clin Pract** 1996 Dec;50(8):440–5

The duration of action of inhaled formoterol dry powder. Quebe-Fehling E, et al. **Br J Clin Pract** 1996 Dec; 50(8):446–9

Ease of handling and clinical efficacy of fluticasone propionate Accuhaler/Diskus inhaler compared with the Turbohaler inhaler in paediatric patients. UK Study Group. Williams J, et al. **Br J Clin Pract** 1997 Apr–May; 51(3):147–53

Potentially hazardous co–prescribing of beta–adrenoceptor antagonists and agonists in the community. Evans JM, et al. **Br J Gen Pract** 1996 Jul;46(408):423–5

Inhaled drug delivery in asthma patients [letter; comment] Lenney W. **Br J Gen Pract** 1996 Dec;46(413):757. Comment on: Br J Gen Pract 1995 Dec;45(401):683–7.

Respiratory drug delivery devices [letter; comment] Lenney W. **Br J Gen Pract** 1996 Aug;46(409):492–3. Comment on: Br J Gen Pract 1995 Dec;45(401):683–7.

Non–compliance to long–term asthma treatment—our greatest achievement [letter] Morris A. **Br J Gen Pract** 1997 Jun;47(419):406

Use of steroids in the treatment of asthma in children. **Br J Hosp Med** 1997 Apr 2–15;57(7):307

Asthma in the child under five. Bush A. **Br J Hosp Med** 1996 Feb 7–20;55(3):110–4 (33 ref.)

Asthma in the elderly [letter; comment] Jolobe OM. **Br J Hosp Med** 1996 Nov 6–19;56(9):488. Comment on: Br J Hosp Med 1996 Feb 7–20;55(3):118–20.

Pathogenesis of steroid–resistant asthma. Lane SJ. **Br J Hosp Med** 1997 Apr 16–May 6;57(8):394–8 (20 ref.)

Self–management plans: uses and limitations. Partridge MR. **Br J Hosp Med** 1996 Feb 7–20;55(3):120–2 (11 ref.)

Impaired activation of adenylyl cyclase in lung of the Basenji–greyhound model of airway hyperresponsiveness: decreased numbers of high affinity beta–adrenoceptors. Emala CW, et al. **Br J Pharmacol** 1996 Aug;118(8):2009–16

Steroid–induced prepartum psychosis [letter] [see comments] Johnson I. **Br J Psychiatry** 1996 Oct;169(4):522. Comment in: Br J Psychiatry 1997 Jan;170:90.

Doping taboos [letter; comment] Wolstenholme RJ. **Br J Sports Med** 1995 Dec;29(4):279. Comment on: Br J Sports Med 1995 Jun;29(2):75.

Practical aspects of aerosol therapy in asthma (3): Dry powder inhalers (DPI). Ariyananda PL, et al. **Ceylon Med J** 1997 Jun;42(2):96–7

Practical aspects of aerosol therapy in asthma (2): Metered dose inhalers and spacers. Ariyananda PL, et al. **Ceylon Med J** 1997 Mar;42(1):26–9

Practical aspects of aerosol therapy in asthma (1) [published erratum appears in Ceylon Med J 1997 Mar;42(1):29] Ariyananda PL, et al. **Ceylon Med J** 1996 Dec;41(4):162–5

Current therapies for asthma. Promise and limitations. Barnes PJ. **Chest** 1997 Feb;111(2 Suppl):17S–26S (95 ref.)

The effects of the combination of inhaled ipratropium and oral theophylline in asthma. Burki NK. **Chest** 1997 Jun; 111(6):1509–13

The clinical efficacy of combination nebulized anticholinergic and adrenergic bronchodilators vs nebulized adrenergic bronchodilator alone in acute asthma. Canadian Combivent Study Group. FitzGerald JM, et al. **Chest** 1997 Feb;111(2):311–5

Asthma therapy: what's new and is it necessarily better? [editorial; comment] Georgitis JW. **Chest** 1997 Jul; 112(1):3–5. Comment on: Chest 1997 Jul;112(1):34–9.

Tolerance to the protective effect of salmeterol on allergen challenge. Giannini D, et al. **Chest** 1996 Dec;110(6):1452–7

Effect of inhaled salmeterol on sulfur dioxide–induced bronchoconstriction in asthmatic subjects. Gong H Jr, et al. **Chest** 1996 Nov;110(5):1229–35

Prehospitalization inhaled corticosteroid use in patients with COPD or asthma. Jackevicius C, et al. **Chest** 1997 Feb; 111(2):296–302

Emergency treatment of acute asthma with albuterol metered–dose inhaler plus holding chamber: how often should treatments be administered? Karpel JP, et al. **Chest** 1997 Aug;112(2):348–56

The effect of salmeterol on nocturnal symptoms, airway function, and inflammation in asthma. Kraft M, et al. **Chest** 1997 May;111(5):1249–54

Future directions in asthma therapy. Is a cure possible? Leff AR. **Chest** 1997 Feb;111(2 Suppl):61S–68S (18 ref.)

Low–dose methotrexate spares steroid usage in steroid–dependent asthmatic patients: a meta–analysis [see comments] Marin MG. **Chest** 1997 Jul;112(1):29–33. Comment in: Chest 1997 Jul;112(1):1–3.

Methotrexate revisited [editorial; comment] Mullarkey MF. **Chest** 1997 Jul;112(1):1–3. Comment on: Chest 1997 Jul;112(1):29–33.

Ultrasonic nebulization of albuterol is no more effective than jet nebulization for the treatment of acute asthma in children. Nakanishi AK, et al. **Chest** 1997 Jun;111(6):1505–8

A comparison of double–strength beclomethasone dipropionate (84 microg) MDI with beclomethasone dipropionate (42 microg) MDI in the treatment of asthma [see comments] Nathan RA, et al. **Chest** 1997 Jul; 112(1):34–9. Comment in: Chest 1997 Jul;112(1):3–5.

Treatment of acute severe asthma with inhaled albuterol delivered via jet nebulizer, metered dose inhaler with spacer, or dry powder. Raimondi AC, et al. **Chest** 1997 Jul;112(1):24–8

Effect of age on bronchodilator response in acute severe asthma treatment. Rodrigo G, et al. **Chest** 1997 Jul; 112(1):19–23

Anti–inflammatory effect of suplatast tosilate on mild asthma [letter] Sano Y, et al. **Chest** 1997 Sep;112(3):862–3

Dose–ranging study of the clinical efficacy of twice–daily triamcinolone acetonide inhalation aerosol in moderately severe asthma. Welch MJ, et al. **Chest** 1997 Sep; 112(3):597–606

Steroid–resistant asthma immunologic characteristics. Sun Y, et al. **Chin Med J (Engl)** 1996 Jul;109(7):527–32

Utilization of anti–asthma medications in two Quebec populations of anti–asthma medication users: a prescription database analysis. Laurier C, et al. **Chronic Dis Can** 1997; 18(1):20–6

Double–blind placebo–controlled study of oxatomide in the treatment of childhood asthma. Chiu CP, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan–Feb;38(1):14–20

Disturbing asthma statistics reflect suboptimal management. Grum CM. **Cleve Clin J Med** 1997 Mar;64(3):123–5

Proceedings of the Theophylline Forum. Stockholm, 25 June 1994. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:1–59

New drugs for asthma [see comments] Barnes PJ. **Clin Exp Allergy** 1996 Jul;26(7):738–45. Comment in: Clin Exp Allergy 1996 Oct;26(10):1220.

A comparison of the effects of oral cetirizine and inhaled beclomethasone on early and late asthmatic responses to allergen and the associated increase in airways hyperresponsiveness. Bentley AM, et al. **Clin Exp Allergy** 1996 Aug;26(8):909–17

The efficacy of inhaled disodium cromoglycate and glucocorticoids. Carlsen KH, et al. **Clin Exp Allergy** 1996 Jun;26 Suppl 4:8–17 (98 ref.)

Theophylline in chronic asthma—evidence for disease–modifying properties. Chung KF. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:22–7 (59 ref.)

The effect of inhaled thiorphan on allergen–induced airway responses in asthmatic subjects. Diamant Z, et al. **Clin Exp Allergy** 1996 May;26(5):525–32

Studies of the effects of inhaled magnesium on airway reactivity to histamine and adenosine monophosphate in asthmatic subjects. Hill J, et al. **Clin Exp Allergy** 1997 May; 27(5):546–51

The in vitro and in vivo effect of corticosteroids on basophil releasability in patients with mild and severe bronchial asthma. Kivity S, et al. **Clin Exp Allergy** 1997 Aug; 27(8):909–14

A comparison of serum haptoglobin levels between acute exacerbation and clinical remission in asthma. Koh YY, et al. **Clin Exp Allergy** 1996 Oct;26(10):1202–9

Effects of prednisolone on bone turnover in patients with corticosteroid resistant asthma. Lane SJ, et al. **Clin Exp Allergy** 1996 Oct;26(10):1197–201

Anti–inflammatory treatment in clinical practice: a summary. Larsson K, et al. **Clin Exp Allergy** 1996 Jun;26 Suppl 4:18–9 (8 ref.)

The role of theophylline in the management of chronic asthma in adults. McDonald CJ, et al. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:42–6 (64 ref.)

Theophylline in the treatment of asthma. Makino S. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:47–54 (57 ref.)

Increased numbers of dendritic cells in the bronchial mucosa of atopic asthmatic patients: downregulation by inhaled corticosteroids. Möller GM, et al. **Clin Exp Allergy** 1996 May;26(5):517–24

Challenge tests in nose and bronchi: pharmacological modulation of rhinitis and asthma. Mygind N, et al. **Clin Exp Allergy** 1996 May;26 Suppl 3:39–43 (35 ref.)

Chloride transport and the action of sodium cromoglycate and nedocromil sodium in asthma. Norris AA, et al. **Clin Exp Allergy** 1996 Mar;26(3):250–3 (35 ref.)

Anti–asthma effect of an antiviral drug, acyclovir: a clinical case and experimental study. Okada H, et al. **Clin Exp Allergy** 1997 Apr;27(4):431–7

Granulocyte proteins in serum in childhood asthma: relation to spirometry and therapy. Scher H, et al. **Clin Exp Allergy** 1996 Oct;26(10):1131–41

Effect of long–term administration of theophylline on serum immunoglobulin E level in asthmatic children—preliminary study. Toyoshima K, et al. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:28–31

The use of serum eosinophil cationic protein (ECP) in the management of steroid therapy in chronic asthma. Wever AM, et al. **Clin Exp Allergy** 1997 May;27(5):519–29

Inhaled and nasal glucocorticoids and the risks of ocular hypertension or open–angle glaucoma. Friday GA. **Clin Pediatr (Phila)** 1997 Sep;36(9):551

Dose–response of inhaled drugs in asthma. An update. Clark DJ, et al. **Clin Pharmacokinet** 1997 Jan;32(1):58–74 (78 ref.)

Montelukast causes prolonged, potent leukotriene D4–receptor antagonism in the airways of patients with asthma. De Lepeleire I, et al. **Clin Pharmacol Ther** 1997 Jan;61(1):83–92

Concerns regarding the current use of beta–agonists in the therapy of asthma. Aberg G, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):3–6

Chinese herbal medicine in the treatment of asthma and allergies. But P, et al. **Clin Rev Allergy Immunol** 1996 Fall; 14(3):253–69 (40 ref.)

Complementary and alternative medicine and asthma. Hackman RM, et al. **Clin Rev Allergy Immunol** 1996 Fall; 14(3):321–36 (95 ref.)

Differential responses of asthmatic airways to enantiomers of albuterol. Implications for clinical treatment of asthma. Perrin–Fayolle M, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):139–47

Unconventional therapy in asthma. Ziment I. **Clin Rev Allergy Immunol** 1996 Fall;14(3):289–320 (38 ref.)

A retrospective assessment of cost avoidance associated with the use of nedocromil sodium metered–dose inhaler in the treatment of patients with asthma. Thomas P, et al. **Clin Ther** 1996 Sep–Oct;18(5):939–52

Effectiveness of fluticasone propionate in patients with moderate asthma: a dose–ranging study. Wolfe JD, et al. **Clin Ther** 1996 Jul–Aug;18(4):635–46

Out–patient management of asthma & COPD. Cosentino AM. **Compr Ther** 1997 Jan;23(1):67–72

New developments in the immunology of asthma, with a focus on mechanisms and treatment. Bousquet J, et al. **Curr Opin Pulm Med** 1997 Jan;3(1):42–50 (119 ref.)

Changing delivery methods for obstructive lung diseases. Dolovich M. **Curr Opin Pulm Med** 1997 May;3(3):177–89 (112 ref.)

Experimental treatments for asthma. Floreani AA, et al. **Curr Opin Pulm Med** 1997 Jan;3(1):30–41 (108 ref.)

Bronchodilators: new drugs and controversies. Kleerup EC. **Curr Opin Pulm Med** 1997 Jan;3(1):17–22 (26 ref.)

Alternative treatments in the patient with intractable asthma. Spector SL. **Curr Opin Pulm Med** 1997 Jan;3(1):23–9 (64 ref.)

Antileukotriene agents. Tan RA, et al. **Curr Opin Pulm Med** 1997 May;3(3):215–20 (46 ref.)

Asthma [editorial] Ziment I. **Curr Opin Pulm Med** 1997 Jan; 3(1):1–5

Asthma treatment during pregnancy. What can be safely taken? Schatz M. **Drug Saf** 1997 May;16(5):342–50 (28 ref.)

Nimesulide in the treatment of patients intolerant of aspirin and other NSAIDs. Senna GE, et al. **Drug Saf** 1996 Feb; 14(2):94–103 (73 ref.)

A risk–benefit assessment of methotrexate in corticosteroid–dependent asthma. Shulimzon TR, et al. **Drug Saf** 1996 Oct;15(4):283–90 (51 ref.)

Using beta 2–stimulants in asthma. **Drug Ther Bull** 1997 Jan; 35(1):1–4 (32 ref.)

Salmeterol. A review of its pharmacological properties and clinical efficacy in the management of children with asthma. Adkins JC, et al. **Drugs** 1997 Aug;54(2):331–54 (172 ref.)

Drug treatment of asthma in the elderly. Braman SS. **Drugs** 1996 Mar;51(3):415–23 (41 ref.)

Compliance and outcomes in patients with asthma. Cochrane GM. **Drugs** 1996;52 Suppl 6:12–9 (44 ref.)

Oral vs inhaled asthma therapy. Pros, cons and combinations. Fabbri LM, et al. **Drugs** 1996;52 Suppl 6:20–8 (82 ref.)

Clinical management of asthma in the 1990s. Current therapy and new directions. Jain P, et al. **Drugs** 1996;52 Suppl 6:1–11 (135 ref.)

Management of asthma with zafirlukast. Clinical experience and tolerability profile. Spector SL. **Drugs** 1996;52 Suppl 6:36–46 (46 ref.)

Low–dose methotrexate in the management of Chinese patients with steroid–dependent asthma. Yew WW, et al. **Drugs Exp Clin Res** 1996;22(6):317–21

Relaxin counteracts asthma–like reaction induced by inhaled antigen in sensitized guinea pigs. Bani D, et al. **Endocrinology** 1997 May;138(5):1909–15

Medication use modifies the health effects of particulate sulfate air pollution in children with asthma. Peters A, et al. **Environ Health Perspect** 1997 Apr;105(4):430–5

Controlled trial of methotrexate in patients with severe chronic asthma. Hedman J, et al. **Eur J Clin Pharmacol** 1996;49(5):347–9

Relative efficacy of three different inhalers containing salbutamol in patients with asthma. Mahadewsingh JV, et al. **Eur J Clin Pharmacol** 1996;50(6):467–9

Reproducibility of airway response to inhaled bradykinin and effect of the neurokinin receptor antagonist FK–224 in asthmatic subjects. Schmidt D, et al. **Eur J Clin Pharmacol** 1996;50(4):269–73

Actual use of inhaled corticosteroids and risk of hospitalisation: a case–control study. van Ganse E, et al. **Eur J Clin Pharmacol** 1997;51(6):449–54

Study of the bronchodilating effect of three doses of nebulized oxitropium bromide in asthmatic preschool children using the forced oscillation technique. Pauwels JH, et al. **Eur J Pediatr** 1997 Apr;156(4):329–32

Short–term knemometry and urine cortisol excretion in children treated with fluticasone propionate and budesonide: a dose response study. Agertoft L, et al. **Eur Respir J** 1997 Jul;10(7):1507–12

Can clinical response to cyclosporin in chronic severe asthma be predicted by an in vitro T–lymphocyte proliferation assay? Alexander AG, et al. **Eur Respir J** 1996 Jul; 9(7):1421–6

A controlled assessment of an asthma self–management plan involving a budesonide dose regimen. OPTIONS Research Group. Ayres JG, et al. **Eur Respir J** 1996 May;9(5):886–92

Compliance with nedocromil sodium and a nedocromil sodium/salbutamol combination. Compliance Working Group. Braunstein GL, et al. **Eur Respir J** 1996 May; 9(5):893–8

Does ketotifen have a steroid–sparing effect in childhood asthma? Canny GJ, et al. **Eur Respir J** 1997 Jan;10(1):65–70

Glucocorticoid resistant asthma: T-lymphocyte steroid metabolism and sensitivity to glucocorticoids and immunosuppressive agents. Corrigan CJ, et al. **Eur Respir J** 1996 Oct;9(10):2077–86

Changes in neurokinin A airway responsiveness with inhaled lysine-acetylsalicylate in asthma. Crimi N, et al. **Eur Respir J** 1996 Jun;9(6):1139–45

Salmeterol in exercise-induced bronchoconstriction in asthmatic children: comparison of two doses [published erratum appears in Eur Respir J 1997 Jan;10(1):256] de Benedictis FM, et al. **Eur Respir J** 1996 Oct;9(10):2099–103

Effect of addition of inhaled salmeterol to the treatment of moderate-to-severe asthmatics uncontrolled on high-dose inhaled steroids. European Respiratory Study Group. Faurschou P, et al. **Eur Respir J** 1996 Sep;9(9):1885–90

Effects of theophylline on inflammatory cells and cytokines in asthmatic subjects: a placebo-controlled parallel group study. Finnerty JP, et al. **Eur Respir J** 1996 Aug; 9(8):1672–7

Effect of the 21-aminosteroid U-74006F on antigen-induced bronchoconstriction and bronchoalveolar eosinophilia in allergic sheep. Fujimoto K, et al. **Eur Respir J** 1996 Oct; 9(10):2044–9

The effect of a novel orally active selective PDE4 isoenzyme inhibitor (CDP840) on allergen-induced responses in asthmatic subjects. Harbinson PL, et al. **Eur Respir J** 1997 May;10(5):1008–14

Fluticasone propionate compared with budesonide: a double-blind trial in asthmatic children using powder devices at a dosage of 400 microg x day(-1). Hoekx JC, et al. **Eur Respir J** 1996 Nov;9(11):2263–72

The effect of inhaled sodium cromoglycate on cellular infiltration into the bronchial mucosa and the expression of adhesion molecules in asthmatics. Hoshino M, et al. **Eur Respir J** 1997 Apr;10(4):858–65

Anti-inflammatory effects of inhaled beclomethasone dipropionate in nonatopic asthmatics. Hoshino M, et al. **Eur Respir J** 1996 Apr;9(4):696–702

Physician-diagnosed asthma and drug utilization in the European Community Respiratory Health Survey. Janson C, et al. **Eur Respir J** 1997 Aug;10(8):1795–802

Comparison of inhaled salmeterol and individually dose-titrated slow-release theophylline in patients with reversible airway obstruction. European Study Group. Paggiaro PL, et al. **Eur Respir J** 1996 Aug;9(8):1689–95

Accuracy of asthma treatment in schoolchildren in NSW, Australia. Paterson NA, et al. **Eur Respir J** 1997 Mar; 10(3):658–64

Effect of inhaled beclomethasone dipropionate on isocapnic hyperventilation with cold air in asthmatics, measured with forced oscillation technique. Pennings HJ, et al. **Eur Respir J** 1997 Mar;10(3):665–71

Activity of inhaled lysine acetylsalicylate (L-ASA) on bradykinin-induced bronchoconstriction in asthmatics: evidence of contribution of prostaglandins. Polosa R, et al. **Eur Respir J** 1997 Apr;10(4):866–71

Airway endothelin levels in asthma: influence of endobronchial allergen challenge and maintenance corticosteroid therapy. Redington AE, et al. **Eur Respir J** 1997 May;10(5):1026–32

Nedocromil sodium in obstructive airways disease: effect on symptoms and plasma protein leakage in sputum. Schoonbrood DF, et al. **Eur Respir J** 1997 Jul;10(7):1500–6

A dose-response study with formoterol Turbuhaler as maintenance therapy in asthmatic patients. Schreurs AJ, et al. **Eur Respir J** 1996 Aug;9(8):1678–83

Glucocorticoid-resistant asthma: pathogenesis and clinical implications for management. Szefler SJ, et al. **Eur Respir J** 1997 Jul;10(7):1640–7 (45 ref.)

Compliance with inhaled medication and self-treatment guidelines following a self-management programme in adult asthmatics. van der Palen J, et al. **Eur Respir J** 1997 Mar;10(3):652–7

Salmeterol versus formoterol in patients with moderately severe asthma: onset and duration of action. van Noord JA, et al. **Eur Respir J** 1996 Aug;9(8):1684–8

Compliance with and accuracy of daily self-assessment of peak expiratory flows (PEF) in asthmatic subjects over a three month period. Verschelden P, et al. **Eur Respir J** 1996 May;9(5):880–5

Effect of cessation of short-term therapy with ipratropium bromide on lung function and airway responsiveness. Wilding PJ, et al. **Eur Respir J** 1996 Aug;9(8):1627–31

Long-, intermediate- and short-term growth studies in asthmatic children treated with inhaled glucocorticosteroids. Wolthers OD. **Eur Respir J** 1996 Apr; 9(4):821–7 (78 ref.)

Effect of short- and long-acting inhaled beta2-agonists on exhaled nitric oxide in asthmatic patients. Yates DH, et al. **Eur Respir J** 1997 Jul;10(7):1483–8

Immunomodulation as asthma therapy: where do we stand? Barnes PJ. **Eur Respir J Suppl** 1996 Aug;22:154s–159s (48 ref.)

Safety of treatment. Bisgaard H, et al. **Eur Respir J Suppl** 1996 Apr;21:28s–34s (57 ref.)

The effect of salmeterol and nimesulide on chemotaxis and synthesis of PAF and LTC4 by human eosinophils. Tool AT, et al. **Eur Respir J Suppl** 1996 Aug;22:141s–145s

Molecular mechanisms of steroid action: a novel type of cross-talk between glucocorticoids and NF-kappa B transcription factors. van der Saag PT, et al. **Eur Respir J Suppl** 1996 Aug;22:146s–153s

Zizyphi fructus, a constituent of antiasthmatic herbal medicine, stimulates airway epithelial ciliary motility through nitric oxide generation. Tamaoki J, et al. **Exp Lung Res** 1996 May-Jun;22(3):255–66

Evaluation of different doses of formoterol from a newly developed powder inhalation device in asthmatic patients. van den Berg BT, et al. **Fundam Clin Pharmacol** 1995; 9(6):593–603

Corticosteroid-induced delirium and dependency [clinical conference] Stoudemire A, et al. **Gen Hosp Psychiatry** 1996 May;18(3):196–202

Comparison of responses to SF-36 Health Survey questions with one-week and four-week recall periods. Keller SD, et al. **Health Serv Res** 1997 Aug;32(3):367–84

A stepped-care approach to asthma management. Stoloff SW. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):33–4, 39

Nitric oxide and asthmatic inflammation [letter] Racke K, et al. **Immunol Today** 1996 Mar;17(3):147–8

Efficacy and tolerability of Icatibant (Hoe 140) in patients with moderately severe chronic bronchial asthma. Akbary AM, et al. **Immunopharmacology** 1996 Jun;33(1-3):238–42

No significant effect of age of onset on response to anti-asthmatic medications in adult asthmatics. Oosaki R, et al. **In Vivo** 1996 May-Jun;10(3):377–82

Role of ketotifen in bronchial asthma. Kumar L. **Indian Pediatr** 1996 Nov;33(11):983–4

Suppressive effects of Y-24180, a receptor antagonist to platelet activating factor (PAF), on antigen-induced asthmatic responses in guinea pigs. Kagoshima M, et al. **Inflamm Res** 1997 Apr;46(4):147–53

Characterization of a primate model of asthma using anti-allergy/anti-asthma agents. Turner CR, et al. **Inflamm Res** 1996 May;45(5):239–45

Continuous isoproterenol inhalation therapy in children with severe asthmatic attack. Iikura Y, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):370–2

Mechanisms of corticosteroid resistance in asthmatic patients. Lane SJ, et al. **Int Arch Allergy Immunol** 1997 May-Jul; 113(1-3):193–5 (33 ref.)

Therapeutic effect of pranlukast, a selective cysteinyl leukotriene receptor antagonist, on bronchial asthma. Oosaki R, et al. **Int Arch Allergy Immunol** 1997 Sep; 114(1):97–100

Sialyl Lewis X analog inhibits eosinophil accumulation and late asthmatic response in a guinea-pig model of asthma. Sagara H, et al. **Int Arch Allergy Immunol** 1996;111 Suppl 1:32–6

Oral fenoterol versus sustained release theophylline in adult asthmatics. Lucena MI, et al. **Int J Clin Pharmacol Ther** 1997 Jan;35(1):19–23

Anorexia nervosa and steroid withdrawal. Morgan J, et al. **Int J Eat Disord** 1996 Mar;19(2):213–5

Disodium cromoglycate as a controller for asthma [editorial; comment] Nakagawa T. **Intern Med** 1996 Dec;35(12):922–3 . Comment on: Intern Med 1996 Dec;35(12):976–8.

Inhibitory effects of theophylline and procaterol on eosinophil function. Okubo Y, et al. **Intern Med** 1997 Apr; 36(4):276–82

EC squeeze on CFCs means time for change in asthma treatment [news] **Ir Med J** 1996 Jul-Aug;89(4):146

Safety and appropriate use of salmeterol in the treatment of asthma. AAAAI Committee on Drugs, American Academy of Allergy, Asthma and Immunology. **J Allergy Clin Immunol** 1996 Sep;98(3):475–80

A randomized, double-blind dose reduction study to compare the minimal effective dose of budesonide Turbuhaler and fluticasone propionate Diskhaler. Agertoft L, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):773–80

Salmeterol does not cause tolerance during long-term asthma therapy. Arledge TE, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1116–9

Retention of asthmatic patients in a longitudinal clinical trial. Bender BG, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):197–203

Protective effect of inhaled budesonide against unlimited airway narrowing to methacholine in atopic patients with asthma. Booms P, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):330–7

A twelve-week comparison of salmeterol and salbutamol in the treatment of mild-to-moderate asthma: a Canadian multicenter study. Boulet LP, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):13–21

Undertreatment in a nonselected population of adult patients with asthma. Bousquet J, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):514–21

Effect of nedocromil sodium pretreatment on the immediate and late responses of the airway to segmental antigen challenge. Calhoun WJ, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S46–50; discussion S64–6

Effects of nedocromil sodium on inflammation and symptoms in therapeutic studies. Creticos PS. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S143–9; discussion S149–50 (27 ref.)

Bronchoscopy as a research tool for the study of asthma pathogenesis and effects of antiasthma drugs. Djukanović R. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S41–5; discussion S64–6 (35 ref.)

Nebulized salbutamol with and without ipratropium bromide in the treatment of acute asthma. Garrett JE, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):165–70

Failure of a breath-actuated bronchodilator inhaler to deliver aerosol during a bout of near fatal asthma [letter] Hannaway PJ. **J Allergy Clin Immunol** 1996 Oct;98(4):853

A rationale for the use of nedocromil sodium in the treatment of asthma. Holgate ST. **J Allergy Clin Immunol** 1996 Nov; 98(5 Pt 2):S157–60

Asthma mechanisms, determinants of severity and treatment. Forward. Holgate ST. **J Allergy Clin Immunol** 1996 Nov; 98(5 Pt 2):S1–2

How should inhaled glucocorticoids be compared? [editorial] Kamada AK, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):735–7

Nasal nitric oxide is increased in patients with asthma and allergic rhinitis and may be modulated by nasal glucocorticoids. Kharitonov SA, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):58–64

The effect of drug therapy on long-term outcome of childhood asthma: a possible preview of the international guidelines. König P, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1103–11

Rifampin-induced deterioration in steroid-dependent asthma. Lin FL. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1125

Acute and chronic effects of a 5-lipoxygenase inhibitor in asthma: a 6-month randomized multicenter trial. Zileuton Study Group. Liu MC, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):859–71

Inhaled beclomethasone dipropionate downregulates CD4 and CD8 T-lymphocyte activation in peripheral blood of patients with asthma. Majori M, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):379–82

Noncompliance and treatment failure in children with asthma. Milgrom H, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1051–7

Failure of colchicine to reduce inhaled triamcinolone dose in patients with asthma. Newman KB, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):176–8

The current place of nedocromil sodium in the treatment of asthma. Pauwels R. **J Allergy Clin Immunol** 1996 Nov; 98(5 Pt 2):S151–5; discussion S155–6 (10 ref.)

Time course of changes in adenosine 5'-monophosphate airway responsiveness with inhaled heparin in allergic asthma. Polosa R, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):338–44

Effects of montelukast (MK-0476), a new potent cysteinyl leukotriene (LTD4) receptor antagonist, in patients with chronic asthma. Reiss TF, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):528–34

The safety of asthma and allergy medications during pregnancy. Schatz M, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):301–6

Protective effect of inhaled lysine acetylsalicylate on allergen-induced early and late asthmatic reactions. Sestini P, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):71–7

Attained adult height after childhood asthma: effect of glucocorticoid therapy. Silverstein MD, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):466–74

Effects of glucocorticoids on lymphocyte activation in patients with steroid-sensitive and steroid-resistant asthma. Spahn JD, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1073–9

Comparison of the antiasthmatic, oropharyngeal, and systemic glucocorticoid effects of budesonide administered through a pressurized aerosol plus spacer or the Turbuhaler dry powder inhaler. Toogood JH, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):186–93

Agonizing over long-acting beta-agonists [letter] Wolf BL, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):717–8

The effectiveness of once-daily dosing of inhaled flunisolide in maintaining asthma control. ZuWallack RL, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):278–85

Effect of furosemide on hyperpnea-induced airway obstruction, injury, and microvascular leakage. Freed AN, et al. **J Appl Physiol** 1996 Dec;81(6):2461–7

Effect of thromboxane A2-receptor antagonist on bradykinin-induced bronchoconstriction in asthma. Rajakulasingam K, et al. **J Appl Physiol** 1996 Jun; 80(6):1973–7

Aerosol systems in asthma: selection and practice [see comments] Jayakrishnan B. **J Assoc Physicians India** 1996 Mar;44(3):186–8 (20 ref.). Comment in: J Assoc Physicians India 1996 Mar;44(3):165.

Dum spiro, spero—while I breathe, I hope [editorial; comment] Joshi JM. **J Assoc Physicians India** 1996 Mar; 44(3):165. Comment on: J Assoc Physicians India 1996 Mar;44(3):186–8.

Short-term regular beta 2-adrenergic agonists treatment is safe in mild asthmatics taking low doses of inhaled steroids. Ganassini A, et al. **J Asthma** 1997;34(1):61–6

Results of the first U.S. double-blind, placebo-controlled, multicenter clinical study in asthma with pranlukast, a novel leukotriene receptor antagonist. Grossman J, et al. **J Asthma** 1997;34(4):321–8

Impact of fluticasone propionate powder on health-related quality of life in patients with moderate asthma. Mahajan P, et al. **J Asthma** 1997;34(3):227–34

Anti-leukotriene agents: a new direction in asthma therapy [see comments] Nathan RA. **J Asthma** 1996;33(6):353–66 (95 ref.). Comment in: J Asthma 1996;33(6):351–2.

Furosemide given by inhalation ameliorates acute exacerbation of asthma. Ono Y, et al. **J Asthma** 1997; 34(4):283–9

The effect of structured versus conventional inhaler education in medical housestaff. Rebuck D, et al. **J Asthma** 1996;33(6):385–93

Efficacy and side effects of beta 2-agonists by inhaled route in acute asthma in children: comparison of salbutamol, terbutaline, and fenoterol. Scalabrin DM, et al. **J Asthma** 1996;33(6):407-15

Roxithromycin attenuates acid-induced cough and water-induced bronchoconstriction in children with asthma. Shimizu T, et al. **J Asthma** 1997;34(3):211-7

New insights into the pathogenesis and management of steroid-resistant asthma. Spahn JD, et al. **J Asthma** 1997; 34(3):177-94 (150 ref.)

A one-week dose-ranging study of inhaled salmeterol in children with asthma. Weinstein S, et al. **J Asthma** 1997; 34(1):43-52

Properties controlling the diffusion and release of water-soluble solutes from poly(ethylene oxide) hydrogels: 3. Device geometry. McNeill ME, et al. **J Biomater Sci Polym Ed** 1996;7(11):937-51

Properties controlling the diffusion and release of water-soluble solutes from poly(ethylene oxide) hydrogels. 4. Extended constant rate release from partly-coated spheres. McNeill ME, et al. **J Biomater Sci Polym Ed** 1996; 7(11):953-63

Prescribing trends for anti-asthma drugs in Tasmania following the National Asthma Campaign. Jacobson GA, et al. **J Clin Pharm Ther** 1996 Oct;21(5):317-24

Application of population pharmacokinetics to the optimization of theophylline therapy. Otero MJ, et al. **J Clin Pharm Ther** 1996 Apr;21(2):113-25

Treating acute asthma in adults. Forsch R. **J Fam Pract** 1996 Oct;43(4):339-40

Oral vs i.v. steroids for asthma. Margo K, et al. **J Fam Pract** 1997 May;44(5):441

Approach to aerosol therapy in management of asthma at primary care level. Athavale AU, et al. **J Indian Med Assoc** 1997 Jan;95(1):12-3

Metered-dose inhaler technique and quality of life with airways disease: assessing the value of the Vitalograph in educational intervention. Skaer TL, et al. **J Int Med Res** 1996 Jul-Aug;24(4):369-75

P-glycoprotein expression in circulating blood leukocytes of patients with steroid-resistant asthma. Montano E, et al. **J Investig Allergol Clin Immunol** 1996 Jan-Feb;6(1):14-21

Abuse of therapy with corticosteroids in the asthmatic patient and the deficient control of suprarenal function. Indication of therapy with ACTH. Oehling A, et al. **J Investig Allergol Clin Immunol** 1996 Nov-Dec; 6(6):349-55

Methotrexate in the treatment of corticodependent asthmatic children. Solé D, et al. **J Investig Allergol Clin Immunol** 1996 Mar-Apr;6(2):126-30

The influence of misoprostol (synthetic analogue of prostaglandin E1) on aspirin-induced bronchoconstriction in aspirin-sensitive asthma. Szmidt M, et al. **J Investig Allergol Clin Immunol** 1996 Mar-Apr;6(2):121-5

Pharmacological characterisation of a new model of antigen-induced pulmonary late-phase reaction in the conscious guinea pig which uses additional polymyxin B inhalation. Heuer HO, et al. **J Lipid Mediat Cell Signal** 1996 Dec;15(1):17-28

Preliminary experience with triamcinolone acetonide during pregnancy. Dombrowski MP, et al. **J Matern Fetal Med** 1996 Nov-Dec;5(6):310-3

Anti-inflammatory 17beta-thioalkyl-16alpha,17alpha-ketal and -acetal androstanes: a new class of airway selective steroids for the treatment of asthma. Ashton MJ, et al. **J Med Chem** 1996 Dec 6;39(25):4888-96

Influence of a potential anti-asthmatic drug, CR 2039, upon the anticonvulsive activity of conventional antiepileptics against maximal electroshock-induced seizures in mice. Czuczwar SJ, et al. **J Neural Transm** 1996;103(12):1371-9

Potential adverse endocrine effects of inhaled corticosteroids. Batch JA. **J Paediatr Child Health** 1996 Aug;32(4):278-80 (32 ref.)

Parents' perceptions towards their child's use of inhaled medications for asthma therapy. Lim SH, et al. **J Paediatr Child Health** 1996 Aug;32(4):306-9

Hypokalaemia following nebulized salbutamol in children with acute attack of bronchial asthma. Singhi SC, et al. **J Paediatr Child Health** 1996 Dec;32(6):495-7

Intravenous magnesium therapy for moderate to severe pediatric asthma: results of a randomized, placebo-controlled trial [see comments] Ciarallo L, et al. **J Pediatr** 1996 Dec;129(6):809-14. Comment in: J Pediatr 1996 Dec;129(6):783-5.

Management of acute asthma: a continuing challenge [editorial; comment] Kattan M. **J Pediatr** 1996 Dec; 129(6):783-5 (28 ref.). Comment on: J Pediatr 1996 Dec;129(6):809-14.

Current therapy for asthma: time for a change? Barnes NC. **J Pharm Pharmacol** 1997 May;49 Suppl 3:13-6 (36 ref.)

Community care of asthma: the pharmacist as counsellor? Chrystyn H. **J Pharm Pharmacol** 1997 May;49 Suppl 3:51-4 (37 ref.)

Novel approaches to the inhibition of cytokine responses in asthma. Higgs OA. **J Pharm Pharmacol** 1997 May;49 Suppl 3:25-31 (92 ref.)

Effect of YM934, a novel potassium-channel opener, in various experimental asthma models in guinea-pigs. Ishikawa J, et al. **J Pharm Pharmacol** 1996 Oct; 48(10):1034-40

Current drug treatment of asthma. Jack D. **J Pharm Pharmacol** 1997 May;49 Suppl 3:17-8 (3 ref.)

Phosphodiesterase inhibitors: knockout drops? Raeburn D, et al. **J Pharm Pharmacol** 1997 May;49 Suppl 3:19-24 (22 ref.)

Leukotriene receptor antagonists: clinical effects. Barnes N. **J R Soc Med** 1997 Apr;90(4):200-4 (63 ref.)

Inhaled steroids and the risk of hospitalization for asthma. Donahue JG, et al. **JAMA** 1997 Mar 19;277(11):887-91

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Macris N. **JAMA** 1997 Jun 25;277(24):1929; discussion 1930. Comment on: JAMA 1997 Mar 5;277(9):722-7.

Taking asthma seriously [news] Voelker R. **JAMA** 1997 Jul 2;278(1):11

Difficulties with CFC-free salbutamol inhaler [letter] [see comments] Bamber MG. **Lancet** 1996 Dec 21-28; 348(9043):1737. Comment in: Lancet 1997 Feb 1;349(9048):364.

Randomised trial of intravenous salbutamol in early management of acute severe asthma in children [see comments] Browne GJ, et al. **Lancet** 1997 Feb 1; 349(9048):301-5. Comment in: Lancet 1997 Apr 5;349(9057):1030.

High-dose inhaled steroids in asthmatic children [letter; comment] Cade A, et al. **Lancet** 1996 Sep 21;348(9030):819 . Comment on: Lancet 1996 Jul 6;348(9019):27-9.

High-dose inhaled steroids in asthmatic children [letter; comment] Lenney W. **Lancet** 1996 Sep 21;348(9030):819-20 . Comment on: Lancet 1996 Jul 6;348(9019):27-9.

High-dose inhaled steroids in asthmatic children [letter; comment] Lipworth BJ, et al. **Lancet** 1996 Sep 21; 348(9030):820; discussion 821. Comment on: Lancet 1996 Jul 6;348(9019):27-9.

Treatment of mild asthma. O'Byrne PM. **Lancet** 1997 Mar 22;349(9055):818

Early management of acute severe asthma [letter; comment] Robertson C. **Lancet** 1997 Apr 5;349(9057):1030. Comment on: Lancet 1997 Feb 1;349(9048):301-5.

CFC-free inhalers [letter; comment] Spiers R. **Lancet** 1997 Feb 1;349(9048):364. Comment on: Lancet 1996 Dec 21-28;348(9043):1737.

Use of spacers with metered dose inhalers. Woodcock A. **Lancet** 1997 Feb 15;349(9050):446

Nocturnal asthma: mechanisms and therapy. Di Stefano A, et al. **Lung** 1997;175(1):53-61 (60 ref.)

Leukotriene receptor antagonists: the newest in asthma drugs. Stevenson AM. **MCN Am J Matern Child Nurs** 1997 May-Jun;22(3):170, 169

Impact of inhaled corticosteroids on acute asthma hospitalization in Sweden 1978 to 1991. Gerdtham UG, et al. **Med Care** 1996 Dec;34(12):1188-98

Asthma in children. Wainwright C, et al. **Med J Aust** 1997 Aug 18;167(4):218-23 (29 ref.)

Zafirlukast for asthma. **Med Lett Drugs Ther** 1996 Dec 20; 38(990):111-2

Zileuton for asthma. **Med Lett Drugs Ther** 1997 Feb 28; 39(995):18-9

Antiasthma activity of the novel antihistamine E-4716 in guinea pigs in vivo. Cortijo J, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):465-73

Treatment of airways inflammation in asthma. Djukanović R. **Monaldi Arch Chest Dis** 1996 Dec;51(6):475-8 (26 ref.)

Inhaled beclomethasone dipropionate (BDP) prevents seasonal changes in atopic asthmatics. Ponticiello A, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):112-7

Interaction between corticosteroids and beta-agonists in asthma. Wilding PJ, et al. **Monaldi Arch Chest Dis** 1996 Feb;51(1):39-41 (24 ref.)

Albuterol in mild asthma [letter; comment] Suissa S, et al. **N Engl J Med** 1997 Mar 6;336(10):729; discussion 730. Comment on: N Engl J Med 1996 Sep 19;335(12):841-7.

Albuterol in mild asthma [letter; comment] Zahger D. **N Engl J Med** 1997 Mar 6;336(10):729-30; discussion 730 . Comment on: N Engl J Med 1996 Sep 19;335(12):841-7.

Inhaled steroids in the treatment of asthma. Bielory L, et al. **N J Med** 1996 Mar;93(3):180-2

Prudent use of beta2-agonists in the treatment of asthma. Giangrasso T. **N J Med** 1996 Mar;93(3):171-4 (22 ref.)

Under the volcano: fire, ash and asthma? Bradshaw L, et al. **N Z Med J** 1997 Mar 28;110(1040):90-1

Intravenous glucocorticoids in adult acute severe asthma [see comments] Harper JP, et al. **N Z Med J** 1997 May 9; 110(1043):159-61 (26 ref.). Comment in: N Z Med J 1997 Jun 27;110(1046):238.

Inhaled v. oral bronchodilators [letter; comment] Aggarwal AN. **Natl Med J India** 1997 Jan-Feb;10(1):47-8. Comment on: Natl Med J India 1996 Jul-Aug;9(4):159-62.

Oral bronchodilators in the control of asthma [editorial; comment] Rees PJ. **Natl Med J India** 1996 Jul-Aug; 9(4):153-4. Comment on: Natl Med J India 1996 Jul-aug;9(4):159-62.

Cost-effectiveness of inhaled beta-agonists v. oral salbutamol in asthma: a randomized double-blind cross-over study [see comments] Thomas K, et al. **Natl Med J India** 1996 Jul-Aug;9(4):159-62. Comment in: Natl Med J India 1996 Jul-Aug;9(4):153-4. Comment in: Natl Med J India 1997 Jan-Feb;10(1):47-8.

DNA antisense therapy for asthma in an animal model [see comments] Nyce JW, et al. **Nature** 1997 Feb 20; 385(6618):721-5. Comment in: Nature 1997 Feb 20;385(6618):684-5.

Asthma. Blocking adenosine with antisense [news; comment] Richardson PJ. **Nature** 1997 Feb 20;385(6618):684-5. Comment on: Nature 1997 Feb 20;385(6618):721-5.

Zafirlukast: a new treatment for asthma [news] Kupecz D. **Nurse Pract** 1997 May;22(5):182, 185-6, 189-90 (41 ref.)

Pharmacologic therapy of asthma during pregnancy. Dombrowski MP. **Obstet Gynecol Clin North Am** 1997 Sep; 24(3):559-74 (64 ref.)

Osteonecrosis of the femoral head in patients with inflammatory arthritis or asthma receiving corticosteroid therapy. Colwell CW Jr, et al. **Orthopedics** 1996 Nov; 19(11):941-6

Evaluation of efficacy of traditional Chinese medicines in the treatment of childhood bronchial asthma: clinical trial, immunological tests and animal study. Taiwan Asthma Study Group. Hsieh KH. **Pediatr Allergy Immunol** 1996 Aug;7(3):130-40

Delivery of albuterol in a pediatric emergency department. Williams JR, et al. **Pediatr Emerg Care** 1996 Aug; 12(4):263-7

Theophylline in acute asthma [letter; comment] Carter ER. **Pediatr Pulmonol** 1996 Nov;22(5):331-2. Comment on: Pediatr Pulmonol 1996 Apr;21(4):211-8.

Nebulized flunisolide in infants and young children with asthma: a pilot study. de Benedictis FM, et al. **Pediatr Pulmonol** 1996 May;21(5):310-5

Theophylline in acute childhood asthma: a meta-analysis of its efficacy [see comments] Goodman DC, et al. **Pediatr Pulmonol** 1996 Apr;21(4):211-8. Comment in: Pediatr Pulmonol 1996 Nov;22(5):331-2.

Effect of asthma treatment on urinary growth hormone excretion in children [letter; comment] Nikolaizik WH. **Pediatr Pulmonol** 1997 Feb;23(2):126-7. Comment on: Pediatr Pulmonol 1996 Jun;21(6):361-6.

Effect of asthma treatment on urinary growth hormone excretion in children [see comments] O'Leary PC, et al. **Pediatr Pulmonol** 1996 Jun;21(6):361-6. Comment in: Pediatr Pulmonol 1997 Feb;23(2):126-7.

rhDNase in acute asthma [letter] Puterman AS, et al. **Pediatr Pulmonol** 1997 Apr;23(4):316-7

Dose response to inhaled terbutaline powder and peak inspiratory flow through Turbuhaler in children with mild to moderate asthma. Ståhl E, et al. **Pediatr Pulmonol** 1996 Aug;22(2):106-10

Dose titration of nebulized budesonide in young children. Vikre-Jørgensen J, et al. **Pediatr Pulmonol** 1997 Apr; 23(4):270-7

Aerosol delivery to wheezy infants: a comparison between a nebulizer and two small volume spacers. Wildhaber JH, et al. **Pediatr Pulmonol** 1997 Mar;23(3):212-6

Are beta-adrenergic bronchodilators safe?[comment] Eggleston PA. **Pediatrics** 1997 May;99(5):729-30. Comment on: Pediatrics 1997 May;99(5):655-9.

Asthma: too much diagnosis and too much medicine [letter; comment] Giannini AV. **Pediatrics** 1996 Oct;98(4 Pt 1):800-1. Comment on: Pediatrics 1993 Jul;92(1):144-6.

Children and adult perceptions of childhood asthma. Guyatt GH, et al. **Pediatrics** 1997 Feb;99(2):165-8

The clinical relevance of chronopharmacology in therapeutics. Lemmer B. **Pharmacol Res** 1996 Feb; 33(2):107-15 (65 ref.)

Effects of Y-24180, a long-acting and potent antagonist to platelet-activating factor, on immediate asthmatic response in guinea pigs. Kagoshima M, et al. **Pharmacology** 1997 Jan;54(1):1-7

Relation between theophylline and circulating vitamin levels in children with asthma. Shimizu T, et al. **Pharmacology** 1996 Dec;53(6):384-9

Pharmacology of leukotriene receptor antagonists and 5-lipoxygenase inhibitors in the management of asthma. Drazen JM. **Pharmacotherapy** 1997 Jan-Feb;17(1 Pt 2):22S-30S (58 ref.)

New frontiers in asthma therapy: leukotriene receptor antagonists and 5-lipoxygenase inhibitors. Introduction. Hendeles L. **Pharmacotherapy** 1997 Jan-Feb;17(1 Pt 2):1S-2S

Use of allergen bronchoprovocation to screen drugs for anti-asthma activity. Hendeles L, et al. **Pharmacotherapy** 1997 Jan-Feb;17(1 Pt 2):39S-49S (53 ref.)

Asthma pharmacotherapy: current practices and outlook. Kelly HW. **Pharmacotherapy** 1997 Jan-Feb;17(1 Pt 2):13S-21S (35 ref.)

The use of 5-lipoxygenase inhibitors and leukotriene receptor antagonists in the treatment of chronic asthma. Sorkness CA. **Pharmacotherapy** 1997 Jan-Feb;17(1 Pt 2):50S-54S (14 ref.)

Generic inhaled salbutamol versus branded salbutamol. A randomised double-blind study. Williamson IJ, et al. **Postgrad Med J** 1997 Mar;73(857):156-8

A GP guide to the new asthma guidelines. Holmes B. **Practitioner** 1997 Apr;241(1573):218-9

Automated application of clinical practice guidelines for asthma management. Ertle AR, et al. **Proc AMIA Annu Fall Symp** 1996;:552-6

Speeds of action of single doses of formoterol and salbutamol compared with placebo in reversing methacholine-induced bronchoconstriction. Beach JR, et al. **Pulm Pharmacol** 1996 Aug;9(4):245-9

Airway and systemic effects of inhaled corticosteroids in asthma: dose response relationship. Lipworth BJ. **Pulm Pharmacol** 1996 Feb;9(1):19-27 (48 ref.)

Sodium cromoglycate and nedocromil sodium in the therapy of asthma, a critical comparison. Parnham MJ. **Pulm Pharmacol** 1996 Apr;9(2):95-105 (81 ref.)

Additive effect of nitroglycerine inhalation on beta2-agonist-induced bronchodilatation in asthmatics. Rolla G, et al. **Pulm Pharmacol** 1995 Apr-Jun; 8(2-3):137-41

Impact of the global on patient perceivable change in an asthma specific QOL questionnaire. Barber BL, et al. **Qual Life Res** 1996 Feb;5(1):117-22

Inhibitory effects of pituitary adenylate cyclase activating polypeptide on histamine-induced respiratory resistance in anesthetized guinea pigs. Saguchi Y, et al. **Regul Pept** 1997 May 14;70(1):9-13

The Spacehaler for delivery of salbutamol: a comparison with the standard metered-dose inhaler plus Volumatic spacer device. Gunawardena KA, et al. **Respir Med** 1997 May; 91(5):311-6

Influence of inspiratory capacity on bronchodilatation via Turbuhaler or pressurized metered-dose inhaler in asthmatic children: a comparison. Hirsch T, et al. **Respir Med** 1997 Jul;91(6):341-6

Anti-leukotriene intervention: is there adequate information for clinical use in asthma? Ind PW. **Respir Med** 1996 Nov; 90(10):575-86 (70 ref.)

Fluticasone propionate 1 mg daily and beclomethasone dipropionate 2 mg daily: a comparison over 1 yr. Lorentzen KA, et al. **Respir Med** 1996 Nov;90(10):609-17

Invasive pulmonary aspergillosis with cerebromeningeal involvement after short-term intravenous corticosteroid therapy in a patient with asthma. Monlun E, et al. **Respir Med** 1997 Aug;91(7):435-7

A long-term study of symptoms, spirometry and survival amongst home nebulizer users. O'Driscoll BR, et al. **Respir Med** 1996 Oct;90(9):561-6

Quality of life in a cross-over design [letter] Ringbaek T. **Respir Med** 1996 Nov;90(10):641

An assessment of steroid hypersensitivity in asthma. Wilkinson SM, et al. **Respir Med** 1997 Apr;91(4):231-3

Therapeutic equivalence of a novel HFA134a-containing metered-dose inhaler and the conventional CFC inhaler (Berodual) for the delivery of a fixed combination of fenoterol/ipratropium bromide. A randomized double-blind placebo-controlled crossover study in patients with asthma. Maesen FP, et al. **Respiration** 1997; 64(4):273-80

Rapid response to inhaled frusemide in severe acute asthma with hypercapnia. Tanigaki T, et al. **Respiration** 1997; 64(1):108-10

An evaluative study of the short-term effects of once-daily, sustained-release theophylline on sleep in nocturnal asthmatics. Richardt D, et al. **S Afr Med J** 1996 Jul; 86(7):803-4

The changing face of asthma therapy. Marchiando RJ. **S D J Med** 1997 Mar;50(3):103-4

Insufficient control of asthma: increase the dose of inhaled steroids or add long-acting beta 2-agonists? Aubert JD, et al. **Schweiz Med Wochenschr** 1997 Feb 1;127(5):176-81 (28 ref.)

Potential for tolerance, morbidity, and mortality resulting from regular use of beta 2-adrenergic agonists in asthma. Giangrasso T. **South Med J** 1997 Feb;90(2):173-9 (31 ref.)

The lack of respiratory effects of the ocular hypotensive drug latanoprost in patients with moderate-steroid treated asthma. Hedner J, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S111-5

Asthma in adults and schoolchildren. The General Practioner in Asthma Group, the British Association of Accident and Emergency Medicine, the British Paediatric Respiratory Society and the Royal College of Paediatrics and Child Health [see comments] **Thorax** 1997 Feb;52 Suppl 1:S2-8, S11-5, S20-1. Comment in: Thorax 1997 Jul;52(7):665; discussion 665-6.

Asthma in children under five years of age. The General Practitioner in Asthma Group, the British Association of Accident and Emergency Medicine, the British Paediatric Respiratory Society and the Royal College of Paediatrics and Child Health. **Thorax** 1997 Feb;52 Suppl 1:S9-10, S18-21

Asthma guidelines [letter; comment] Adu H. **Thorax** 1997 Jul;52(7):665; discussion 665-6. Comment on: Thorax 1997 Feb;52 Suppl 1:S2-8, S11-5, S20-1.

Pranlukast, a novel leukotriene receptor antagonist: results of the first European, placebo controlled, multicentre clinical study in asthma. Barnes NC, et al. **Thorax** 1997 Jun;52(6):523-7

Salmeterol tachyphylaxis in steroid treated asthmatic subjects. Booth H, et al. **Thorax** 1996 Nov;51(11):1100-4

Relative effects of inhaled corticosteroids on immunopathology and physiology in asthma: a controlled study. Burke CM, et al. **Thorax** 1996 Oct;51(10):993-9

Adrenal suppression with inhaled budesonide and fluticasone propionate given by large volume spacer to asthmatic children. Clark DJ, et al. **Thorax** 1996 Sep;51(9):941-3

Functional antagonism: tolerance produced by inhaled beta 2 agonists. Cockcroft DW, et al. **Thorax** 1996 Oct; 51(10):1051-6 (34 ref.)

Asthma guidelines [letter; comment] Emerton D. **Thorax** 1997 Jul;52(7):665; discussion 665-6. Comment on: Thorax 1997 Feb;52 Suppl 1:S2-8, S11-5, S20-1.

Effect of a leukotriene B4 receptor antagonist, LY293111, on allergen induced responses in asthma [see comments] Evans DJ, et al. **Thorax** 1996 Dec;51(12):1178-84. Comment in: Thorax 1996 Dec;51(12):1171-3.

Steroids in exacerbations of asthma: tablets or inhalers? [editorial] Griffiths C. **Thorax** 1996 Nov;51(11):1071-2

Asthma guidelines [letter; comment] Jack D. **Thorax** 1997 Jul;52(7):665; discussion 665-6. Comment on: Thorax 1997 Feb;52 Suppl 1:S2-8, S11-5, S20-1.

Comparison of short courses of oral prednisolone and fluticasone propionate in the treatment of adults with acute exacerbations of asthma in primary care. Levy ML, et al. **Thorax** 1996 Nov;51(11):1087-92

Overview of nebuliser treatment. Muers MF. **Thorax** 1997 Apr;52 Suppl 2:S25-30

How general practitioners manage acute asthma attacks. Neville RG, et al. **Thorax** 1997 Feb;52(2):153-6

The science of nebulised drug delivery. O'Callaghan C, et al. **Thorax** 1997 Apr;52 Suppl 2:S31-44 (104 ref.)

Aerosol kinetics and bronchodilator efficacy during continuous positive airway pressure delivered by face mask. Parkes SN, et al. **Thorax** 1997 Feb;52(2):171-5

Treating asthma in developing countries: a problem of inaccessible unavailable essential medication [editorial; comment] Parry E. **Thorax** 1997 Jul;52(7):589. Comment on: Thorax 1997 Jul;52(7):605-7.

Nebulisers for the elderly. Pounsford JC. **Thorax** 1997 Apr; 52 Suppl 2:S53-5 (24 ref.)

Effects of montelukast (MK-0476); a potent cysteinyl leukotriene receptor antagonist, on bronchodilation in asthmatic subjects treated with and without inhaled corticosteroids. Reiss TF, et al. **Thorax** 1997 Jan;52(1):45-8

Effect of inhaled frusemide and oral indomethacin on the airway response to hypertonic saline challenge in asthmatic subjects. Rodwell LT, et al. **Thorax** 1997 Jan;52(1):59-66

Effect of cyclosporin A on the allergen-induced late asthmatic reaction. Sihra BS, et al. **Thorax** 1997 May; 52(5):447-52

Asthma guidelines [letter; comment] Todd G. **Thorax** 1997 Jul;52(7):665; discussion 665-6. Comment on: Thorax 1997 Feb;52 Suppl 1:S2-8, S11-5, S20-1.

Effects of the long acting beta agonist formoterol on asthma control in asthmatic patients using inhaled corticosteroids. The Netherlands and Canadian Formoterol Study Investigators. van der Molen T, et al. **Thorax** 1997 Jun; 52(6):535-9

Nebulisers for asthma. Ward MJ. **Thorax** 1997 Apr;52 Suppl 2:S45-8

Effect of regular terbutaline on the airway response to inhaled budesonide. Wilding PJ, et al. **Thorax** 1996 Oct; 51(10):989-92

Tachykinin and kinin receptor antagonists: therapeutic perspectives in allergic airway disease. Bertrand C, et al. **Trends Pharmacol Sci** 1996 Jul;17(7):255-9 (58 ref.)

Phosphodiesterase 4 and tolerance to beta 2-adrenoceptor agonists in asthma. Giembycz MA. **Trends Pharmacol Sci** 1996 Sep;17(9):331-6 (62 ref.)

Influenza vaccination in patients with asthma: effect on peak expiratory flow, asthma symptoms and use of medication. Ahmed AH, et al. **Vaccine** 1997 Jun;15(9):1008-9

[A preliminary observation on the effects of inhaled nitric oxide on bronchial asthma] Zhang H, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):805-7 (Eng. Abstr.) **(Chi)**

[Study on effect of strengthening body resistance method on asthmatic attack] Xu DS, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Apr; 16(4):198-200 (Eng. Abstr.) **(Chi)**

[A modern approach to the treatment of bronchial asthma] Chlumský J. **Cas Lek Cesk** 1996 Jul 31;135(15):477-81 (26 ref.) (Eng. Abstr.) **(Cze)**

[Guidelines for treatment of bronchial asthma in children. Dansk Paediatrisk Selkabs Astma- og Allergiudvalg] Pedersen S. **Ugeskr Laeger** 1997;159 Suppl 4:1-10 **(Dan)**

[Beta2 agonists and anticholinergics. Inhalation therapy in acute deterioriation of asthma and chronic obstructive pulmonary disease (see comments)] Ringbaek TJ, et al. **Ugeskr Laeger** 1996 Oct 14;158(42):5957-62 (40 ref.). Comment in: Ugeskr Laeger 1997 Mar 3;159(10):1470-1. **(Dan)**

[Diagnosis and treatment of recurrent coughing and wheezing in children younger than 4 years old] Brand PL, et al. **Ned Tijdschr Geneeskd** 1997 Mar 8;141(10):464-7 (Eng. Abstr.) **(Dut)**

[Can inhaled corticosteroid used for asthma cure allergic rhinitis? (letter)] Säynävälammi P. **Duodecim** 1995; 111(18):1805 **(Fin)**

[Asthmatic children are inhaling steroids--should we be afraid of side-effects?] Sorva R, et al. **Duodecim** 1995; 111(16):1630-5 (43 ref.) **(Fin)**

[Leukotriene antagonists. A new therapeutic approach in asthma] Chanez P, et al. **Presse Med** 1997 Feb 22; 26(5):234-9 (70 ref.) (Eng. Abstr.) **(Fre)**

[Pharmacological specificities and modalities of prescriptions for corticoids for asthmatic adults] Demoly P, et al. **Presse Med** 1996 Dec 21;25(40):2025-30 (32 ref.) (Eng. Abstr.) **(Fre)**

[Bronchial asthma. Long-term treatment] Pariente R. **Presse Med** 1997 Apr 19;26(13):633-8 (15 ref.) (Eng. Abstr.) **(Fre)**

[Moderate asthma in adults: diagnosis and management in general medical practice] Vernejoux JM, et al. **Rev Mal Respir** 1996 Oct;13(5):499-505 (Eng. Abstr.) **(Fre)**

[Asthma and obstructive bronchopneumopathies: the consensus] Yernault JC. **Rev Med Brux** 1996 Sep; 17(4):263-5 (Eng. Abstr.) **(Fre)**

[Pharma Clinics. Metallic inhalation chamber for the young asthmatic child: the Kidspacer] Leclercq-Foucart J. **Rev Med Liege** 1997 Feb;52(2):123-5 **(Fre)**

[Evaluation of the everyday use of a metered dose aerosol triggered by inhalation (the "Autohaler" system)] Le Cocguic Y, et al. **Rev Pneumol Clin** 1997;53(1):13-9 (Eng. Abstr.) **(Fre)**

[Practicability, effectiveness and tolerance of a standardized prepared theophylline infusion] Pohl WR, et al. **Acta Med Austriaca** 1996;23(3):105-8 (Eng. Abstr.) **(Ger)**

[Acute theophylline intoxication as differential diagnosis of pneumothorax in an asthma patient] Schaarschmidt S, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jan;32(1):61-4 (Eng. Abstr.) **(Ger)**

[Leukotriene-receptor antagonists: a new therapeutic principle in bronchial asthma? (editorial)] Pforte A. **Dtsch Med Wochenschr** 1996 Sep 13;121(37):1111-2 **(Ger)**

[Theophylline in therapy of bronchial asthma--is a reevaluation necessary?] Ukena D, et al. **Med Klin** 1996 Dec 15;91(12):751-2 **(Ger)**

[Recommendations for treatment of asthma in pregnancy] Worth H, et al. **Med Klin** 1996 Jul 15;91(7):435-7 **(Ger)**

[Leukotriene receptor antagonists] Bornkessel B. **Med Monatsschr Pharm** 1996 Oct;19(10):284-6 (3 ref.) **(Ger)**

[Foradil p (Formoterol)--a new long-acting beta2-sympathomimetic for inhalation] **Pneumologie** 1997 Feb;51(2 Suppl):1-8 **(Ger)**

[Effect of the beta-2 mimetic drug terbutaline of growth hormone secretion in prepubertal asthmatic children] Baum WF, et al. **Pneumologie** 1997 May;51(5):513-6 (Eng. Abstr.) **(Ger)**

[Inhibition of growth hormone secretion by theophylline in asthmatic children] Baum WF, et al. **Pneumologie** 1996 Mar; 50(3):238-41 (Eng. Abstr.) **(Ger)**

[Controlled clinical comparative evaluation of fluticasone powder inhalation versus flunisolide dose aerosol in patients with mild to moderate asthma] Bergmann KC. **Pneumologie** 1997 Jan;51(1):27-32 (Eng. Abstr.) **(Ger)**

[Comparison of serum concentrations of once and twice daily administration of ultra-retard theophylline in school children with bronchial asthma] Liebke C, et al. **Pneumologie** 1996 Nov;50(11):752-5 (Eng. Abstr.) **(Ger)**

[Anti-leukotrienes--a new perspective in treatment of bronchial asthma. 1. Scientific Pneumology Symposium, Cannes, 14-16 February 1997] Steinkamp G. **Pneumologie** 1997 Jul;51(7):688-93 **(Ger)**

[Therapy of nocturnal asthma: salmeterol versus nocturnal administration of retard theophylline--comparison of effectiveness and tolerance] Ukena D, et al. **Pneumologie** 1997 Mar;51(3):317-23 (Eng. Abstr.) **(Ger)**

[Bronchial asthma in infants, children and youths: recommendations for therapy 1997. Work Group for Pediatric Pneumology. Swiss Pediatric Society. Swiss Pneumology Society] **Schweiz Med Wochenschr** 1997 Mar 8;127(10):406-10 **(Ger)**

[Antibiotics and bronchial asthma (letter)] Endre L. **Orv Hetil** 1997 Feb 16;138(7):448 **(Hun)**

[Cortisone-resistant bronchial asthma] Matucci A, et al. **Ann Ital Med Int** 1996 Jul-Sep;11(3):187-95 (47 ref.) (Eng. Abstr.) **(Ita)**

[The effect of formoterol on light or moderate bronchial asthma due to allergy to Parietaria officinalis] Pacor ML, et al. **Clin Ter** 1996 Nov;147(11):567-70 (Eng. Abstr.) **(Ita)**

[Update on treatment of asthma] Battistini A. **Pediatr Med Chir** 1996 Jul-Aug;18(4):333-40 (52 ref.) (Eng. Abstr.) **(Ita)**

[Effect of long-term treatment with an inhaled corticosteroid on bronchial hyper-responsiveness and clinical asthma in asthmatic subjects] Ikuta N, et al. **Arerugi** 1996 Dec; 45(12):1231-6 (Eng. Abstr.) **(Jpn)**

[The efficacy of Turbuhaler dry powder inhaler in Japanese asthma--measurement of peak inspiratory flow when using Turbuhaler] Kaneko N, et al. **Arerugi** 1996 Jul;45(7):649-54 (Eng. Abstr.) **(Jpn)**

[Bronchodilating effect of inhalation of aerosolized aminophylline in asthmatic patients] Kokubu H. **Arerugi** 1995 Dec;44(12):1379-86 (Eng. Abstr.) **(Jpn)**

[Evaluations of a specified number of inhalations and how to assess the contents in metered-dose inhalers] Obata T, et al. **Arerugi** 1996 Oct;45(10):1089-97 (Eng. Abstr.) **(Jpn)**

[Clinical study of bronchial asthma in adult, intractable asthmatics after introduction of guideline therapy] Soda R, et al. **Arerugi** 1995 Dec;44(12):1387-93 (Eng. Abstr.) **(Jpn)**

[Serum concentrations of the pyridoxal and pyridoxal-5'-phosphate in children during sustained-release theophylline therapy] Tanaka I, et al. **Arerugi** 1996 Oct;45(10):1098-105 (Eng. Abstr.) **(Jpn)**

[Myoglobinuria following anesthesia with enflurane and succinylcholine in an asthmatic child on theophylline] Shono S, et al. **Masui** 1996 Jan;45(1):91-5 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Treatment of atopic diseases by controlling IL-5 production] Mori A, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):598-601 (13 ref.) **(Jpn)**

[Classification of asthma according to etiology, pathophysiology, and treatment: effects of antiallergic

drugs] Fujimura M.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:125–33 (12 ref.) (Eng. Abstr.) **(Jpn)**
[High-dose inhaled beclomethasone in long-term management of chronic severe asthma—usefulness and dose-dependence] Kudo K, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1996 May; 34(5):536–44 (Eng. Abstr.) **(Jpn)**
[Involvement of G proteins between receptors and KCa channels in the regulation of airway tone by the autonomic nervous system] Kume H, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:116–24 (Eng. Abstr.) **(Jpn)**
[Classification of bronchial asthma according to steroid and immunosuppressive treatment] Nagasaka Y, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:134–9 (22 ref.) (Eng. Abstr.) **(Jpn)**
[Cough-variant asthma successfully treated with a peptide leukotriene receptor antagonist] Nishi K, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 Jan; 35(1):117–23 (Eng. Abstr.) **(Jpn)**
[Indication and effect of inhaled DSCG for the treatment of adult asthmatics] Arai Y. **Nippon Rinsho** 1996 Nov; 54(11):3023–8 (19 ref.) (Eng. Abstr.) **(Jpn)**
[Chronopharmacology and chronotherapy for asthma by using PEF] Burioka N, et al. **Nippon Rinsho** 1996 Nov; 54(11):2956–61 (31 ref.) (Eng. Abstr.) **(Jpn)**
[Thromboxane A2 receptor antagonist in asthma therapy] Endo S, et al. **Nippon Rinsho** 1996 Nov;54(11):3045–8 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Inhibitor of chemical mediator release] Fujimura M.
Nippon Rinsho 1996 Nov;54(11):3029–33 (8 ref.) (Eng. Abstr.) **(Jpn)**
[Inhaled corticosteroid therapy in long-term management of adult asthma] Imai T, et al. **Nippon Rinsho** 1996 Nov; 54(11):2969–75 (28 ref.) (Eng. Abstr.) **(Jpn)**
[Development of beta 2-selective, long-acting agonists] Inagaki N, et al. **Nippon Rinsho** 1996 Nov;54(11):3062–7 (12 ref.) (Eng. Abstr.) **(Jpn)**
[Problems of inhaled steroid therapy in children with asthma] Inoue T, et al. **Nippon Rinsho** 1996 Nov;54(11):2987–92 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Inhaled corticosteroid in out-patient management of asthma] Ishihara K. **Nippon Rinsho** 1996 Nov;54(11):2976–81 (26 ref.) (Eng. Abstr.) **(Jpn)**
[Slow-release theophylline for the treatment of asthmatic children] Iwasaki E, et al. **Nippon Rinsho** 1996 Nov; 54(11):3102–7 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Bronchial asthma as an inflammation and the use of inhaled steroid] Kaneko F, et al. **Nippon Rinsho** 1996 Nov; 54(11):2962–8 (18 ref.) (Eng. Abstr.) **(Jpn)**
[The management of chronic asthma with inhaled beta 2 agonists—regular use? symptomatic use?] Kitamura S, et al. **Nippon Rinsho** 1996 Nov;54(11):3078–80 (6 ref.) (Eng. Abstr.) **(Jpn)**
[Molecular pharmacology and application to the bronchial asthma of thromboxane A2 antagonists] Kohno S.
Nippon Rinsho 1996 Feb;54(2):551–8 (25 ref.) (Eng. Abstr.) **(Jpn)**
[High dose inhaled steroid therapy—usefulness and limitation] Kudo K. **Nippon Rinsho** 1996 Nov;54(11):2993–7 (6 ref.) (Eng. Abstr.) **(Jpn)**
[Thromboxane A2 synthetase inhibitor in asthma therapy] Machida K, et al. **Nippon Rinsho** 1996 Nov;54(11):3034–9 (17 ref.) (Eng. Abstr.) **(Jpn)**
[The development of slow-release theophylline products and revaluation of theophylline's role as a bronchodilator] Mano K. **Nippon Rinsho** 1996 Nov;54(11):3093–101 (33 ref.) (Eng. Abstr.) **(Jpn)**
[A role of inhaled disodium cromoglycate in child asthma] Nishikawa K. **Nippon Rinsho** 1996 Nov;54(11):3017–22 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Inhaled beta agonists as a bronchodilator are a mainstay of asthma therapy: focusing on inhaled beta agonists and oral theophylline] Nishimura K, et al. **Nippon Rinsho** 1996 Nov; 54(11):3073–7 (14 ref.) (Eng. Abstr.) **(Jpn)**
[Long-term effects of inhaled beta 2-agonists on bronchial hyperresponsiveness in asthmatics] Ogawa C, et al.
Nippon Rinsho 1996 Nov;54(11):3081–6 (14 ref.) (Eng. Abstr.) **(Jpn)**
[PAF receptor antagonist in asthma therapy] Sagara H, et al. **Nippon Rinsho** 1996 Nov;54(11):3056–61 (24 ref.) (Eng. Abstr.) **(Jpn)**
[Peptidoleukotriene receptor antagonists in asthma therapy] Sakakibara H, et al. **Nippon Rinsho** 1996 Nov; 54(11):3049–55 (36 ref.) (Eng. Abstr.) **(Jpn)**
[A new trend of inhaled corticosteroid therapy in Japan] Sano Y. **Nippon Rinsho** 1996 Nov;54(11):3004–10 (16 ref.) (Eng. Abstr.) **(Jpn)**
[A comparison of the pharmacological actions between DSCG (disodium cromoglycate) and BDP (beclomethasone dipropionate) in the treatment of bronchial asthma] Shida T. **Nippon Rinsho** 1996 Nov; 54(11):3011–6 (17 ref.) (Eng. Abstr.) **(Jpn)**
[The clinical application of long-acting preparations of theophylline] Tanaka K. **Nippon Rinsho** 1996 Nov; 54(11):3108–12 (8 ref.) (Eng. Abstr.) **(Jpn)**
[5-lipoxygenase inhibitors in asthma therapy] Tanaka R.
Nippon Rinsho 1996 Nov;54(11):3040–4 (5 ref.) (Eng. Abstr.) **(Jpn)**
[Effects of reducing or stopping inhaled beclomethasone dipropionate on airway hyperresponsiveness in stable chronic asthma] Tsukino M, et al. **Nippon Rinsho** 1996 Nov; 54(11):2982–6 (Eng. Abstr.) **(Jpn)**
[The clinical usefulness of the combined use of inhaled beta 2-agonist and inhaled steroid in asthma] Yamamoto C, et al. **Nippon Rinsho** 1996 Nov;54(11):3087–92 (16 ref.) (Eng. Abstr.) **(Jpn)**
[Leukotrienes and asthma. Clinical and experimental experiences with leukotriene receptor antagonists and leukotriene synthesis inhibitors] Henriksen AH, et al.
Tidsskr Nor Laegeforen 1997 Feb 20;117(5):647–51 (27 ref.) (Eng. Abstr.) **(Nor)**
[Pneumocystis pneumonia in patients with steroid-dependent asthma] Dziedziczko A, et al. **Pneumonol Alergol Pol** 1997; 65(5–6):399–405 (24 ref.) **(Pol)**
[The possibility of using heparin for treatment of bronchial asthma] Miecielica J, et al. **Pneumonol Alergol Pol** 1996; 64(11–12):829–33 (43 ref.) **(Pol)**
[Evaluation of efficacy and tolerance of an antiasthmatic preparation—Ditec, consisting of low doses of disodium cromoglycate and fenoterol] Siergiejko Z, et al.
Pneumonol Alergol Pol 1996;64(11–12):758–65 (Eng. Abstr.) **(Pol)**
[Chemotactic activity of neutrophils from atopic and non-atopic subjects—effect of sodium cromoglycate (DSCG)] Szkudlińska B, et al. **Pneumonol Alergol Pol** 1996; 64(7–8):379–85 (Eng. Abstr.) **(Pol)**
[The influence of heparin on histamine level in plasma during the early reaction phase of asthma] Antczak-Marczak M, et al. **Pol Arch Med Wewn** 1997 Jan;97(1):7–14 (Eng. Abstr.) **(Pol)**
[Clinical evaluation of the isotonic solution of theophylline for intravenous injection] Chazan R, et al.
Pol Merkuriusz Lek 1996 Nov;1(5):340–3 (Eng. Abstr.) **(Pol)**
[Secondary osteoporosis in patients with steroid-dependent asthma] Pluskiewicz W, et al. **Przegl Lek** 1997;54(1):21–4 (Eng. Abstr.) **(Pol)**
[Current concepts on the treatment of bronchial asthma] Stelmach R, et al. **Arq Bras Cardiol** 1995 Nov;65(5):439–43 **(Por)**
[Serevent in the treatment of moderate bronchial asthma] Panghea P, et al. **Pneumoftiziologia** 1996 Jul-Dec; 45(3–4):145–8 (Eng. Abstr.) **(Rum)**
[Fluticasone propionate—a new name common in asthma and rhinitis] Ulmeanu R, et al. **Pneumoftiziologia** 1997 Jan-Mar; 46(1):63–4 (8 ref.) **(Rum)**
[Magnesium sulfate in management of bronchial asthma] Emel'ianova AV, et al. **Klin Med (Mosk)** 1996;74(8):55–8 (Eng. Abstr.) **(Rus)**
[Effects of becotide and becodisk glucocorticoid drugs on bronchial reactivity in patients with bronchial asthma] Pol'ner SA. **Klin Med (Mosk)** 1997;75(6):44–6 (Eng. Abstr.) **(Rus)**
[Tailed. New options in therapy of bronchial asthma] Pribylova NN, et al. **Klin Med (Mosk)** 1997;75(1):38–40 (Eng. Abstr.) **(Rus)**
[Comparative efficacy of single Berodual inhalation in patients with bronchial asthma: nebulization against dose-adjusted aerosol] Tsoĭ AN, et al.
Klin Med (Mosk) 1997;75(8):51–5 (Eng. Abstr.) **(Rus)**
[Recovery of immunological responsiveness in patients with bronchial asthma during nicotinamide treatment] Kosogorova LS, et al. **Probl Tuberk** 1996;(5):41–4 (Eng. Abstr.) **(Rus)**
[The effect of glucocorticoids on mineral metabolism in bronchial asthma patients] Emel'ianov AV, et al.
Ter Arkh 1995;67(12):31–3 (Eng. Abstr.) **(Rus)**
[The efficacy of the magnesium sulfate aerosol treatment of bronchial asthma patients] Emel'ianov AV, et al.
Ter Arkh 1997;69(3):35–9 (Eng. Abstr.) **(Rus)**
[The effect of polyunsaturated fatty acids on the biochemical indices of bronchial asthma patients] Masuev KA.
Ter Arkh 1997;69(3):33–5 (Eng. Abstr.) **(Rus)**
[The effect of polyunsaturated fatty acids of the omega-3 class on the late phase of the allergic reaction in bronchial asthma patients] Masuev KA. **Ter Arkh** 1997;69(3):31–3 (Eng. Abstr.) **(Rus)**
[The effect of the liposomal form of hydrocortisone on the status of cellular and humoral immunity in patients with steroid-dependent bronchial asthma] Prishchepa IV, et al.
Ter Arkh 1997;69(3):39–42 (Eng. Abstr.) **(Rus)**
[The efficacy of inhaled glucocorticosteroids in different dosage regimens and in combination with theophylline preparations in bronchial asthma patients] Tsoĭ AN, et al.
Ter Arkh 1997;69(3):27–30 (Eng. Abstr.) **(Rus)**
[New developments in the treatment of bronchial asthma: leukotriene inhibitors] Tsoĭ AN, et al. **Ter Arkh** 1997; 69(2):83–8 (54 ref.) **(Rus)**
[The principles of rendering emergency care in bronchial asthma] Dmitriev IuK, et al. **Voen Med Zh** 1997 Feb; 318(2):21–5 **(Rus)**
[The inhalation administration of liposomes for the transport of broncholytic preparations in bronchial asthma] Nevzorova VA, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Nov-Dec; (6):12–4 (Eng. Abstr.) **(Rus)**
[Treatment of asthma using aerosols] Negro JM, et al.
Allergol Immunopathol (Madr) 1996 Jul-Aug;24(4):139–45 (42 ref.) (Eng. Abstr.) **(Spa)**
[Usefulness of oxygen saturation and peak expiratory flow in the management of acute asthma] Benito Fernández J, et al. **An Esp Pediatr** 1996 Oct;45(4):361–4 (Eng. Abstr.) **(Spa)**
[Acute muscular weakness during childhood in cases of severe asthma due to the use of corticoids and neuromuscular blockers] Campistol Plana J, et al.
An Esp Pediatr 1996 Aug;45(2):196–8 (5 ref.) **(Spa)**
[Evaluation of inhalation treatment in asthmatic infants] Gracia Antequera M, et al. **An Esp Pediatr** 1997 Jan; 46(1):13–9 (Eng. Abstr.) **(Spa)**
[Sympathomimetics and theophylline: combined use?] Alvarez Sintes R, et al. **An Med Interna** 1995 Sep; 12(9):438–41 (Eng. Abstr.) **(Spa)**
[New drugs in the treatment of asthma] de Diego Damiá A. **Arch Bronconeumol** 1996 Aug-Sep;32(7):357–65 (73 ref.) **(Spa)**
[The exercise bronchoconstriction test in the hyperreactive sports players and its report (letter)] Drobnic F.
Arch Bronconeumol 1997 Apr;33(4):206 **(Spa)**
[Adrenergic beta-2 agonists and their impact on physical performance] Drobnic F. **Arch Bronconeumol** 1997 Mar; 33(3):136–42 (56 ref.) (Eng. Abstr.) **(Spa)**
[Theophyllines of 12- and 24-hour sustained-release. Comparative study] Vendrell M, et al.
Arch Bronconeumol 1996 Oct;32(8):397–402 (Eng. Abstr.) **(Spa)**
[Specialized care and primary care in the treatment of asthma: do differences exist?] Cimas JE, et al. **Aten Primaria** 1997 May 31;19(9):477–81 (Eng. Abstr.) **(Spa)**
[Adrenergic beta-2 agents and the Olympic Games (letter)] Drobnic F. **Med Clin (Barc)** 1996 Nov 23;107(18):717–8 **(Spa)**
[Beta-adrenergic agents in asthma (editorial)] Morales AM, et al. **Rev Alerg Mex** 1996 Jan-Feb;43(1):2–4 **(Spa)**
[Severe asthma was found to be an asthma-like condition. Consider reduced doses of cortisone (see comments)] Löwhagen O, et al. **Lakartidningen** 1996 Oct 16; 93(42):3711–3 (Eng. Abstr.). Comment in: Lakartidningen 1997 Jan 29;94(5):317. **(Swe)**
[New drugs in asthma treatment. Leukotriene receptor blockers and leukotriene synthesis inhibitors] Männistö J, et al. **Nord Med** 1997 Apr;112(4):122–5 (15 ref.) (Eng. Abstr.) **(Swe)**
[The physiological characteristics of the antioxidant properties of Lipin in bronchial asthma in children] Tymchenko OH, et al. **Fiziol Zh** 1996;42(1–2):47–52 (Eng. Abstr.) **(Ukr)**

ECONOMICS

Economic analysis of two structured treatment and teaching programs on asthma. Neri M, et al. **Allergy** 1996 May; 51(5):313–9
A cost-effective approach to the diagnosis and treatment of the wheezing infant. Mamlok R. **Allergy Asthma Proc** 1997 May-Jun;18(3):149–52 (20 ref.)
Cost effectiveness of an allergy consultation in the management of asthma. Westley CR, et al.
Allergy Asthma Proc 1997 Jan-Feb;18(1):15–8
Quality-of-life measures in asthma—do they matter to the GP? Gruffydd-Jones K. **Br J Gen Pract** 1997 Jun; 47(419):392–4
Calculating the cost of asthma in Canada [letter; comment] Liss GM, et al. **Can Med Assoc J** 1996 Oct 1;155(7):863; discussion 864. Comment on: Can Med Assoc J 1996 Mar 15;154(6):821–31.
Calculating the cost of asthma in Canada [letter; comment] Ungar W. **Can Med Assoc J** 1996 Oct 1;155(7):862–3; discussion 864. Comment on: Can Med Assoc J 1996 Mar 15;154(6):821–31.
A disease management case study on asthma. DaSilva RV. **Clin Ther** 1996 Nov-Dec;18(6):1374–82
Consequences of occupational asthma on employment and financial status: a follow-up study. Ameille J, et al.
Eur Respir J 1997 Jan;10(1):55–8
The costs of asthma. Barnes PJ, et al. **Eur Respir J** 1996 Apr;9(4):636–42 (46 ref.)
Asthma: a cause for public and governmental concern? Calman K. **J Pharm Pharmacol** 1997 May;49 Suppl 3:3–4
Series on the quality of health care [letter; comment] Friedman SA. **N Engl J Med** 1997 Mar 13;336(11):805; discussion 807. Comment on: N Engl J Med 1996 Oct 17;335(16):1227–31.
Cost-effective treatment of asthma [see comments] Bielory L, et al. **N J Med** 1996 Mar;93(3):168–70. Comment in: N J Med 1996 Sep;93(9):10.
Health care utilization and cost among children with asthma who were enrolled in a health maintenance organization. Lozano P, et al. **Pediatrics** 1997 Jun;99(6):757–64
Average hospital charges for asthma treatment: United States, 1995. Mushinski M. **Stat Bull Metrop Insur Co** 1997 Apr-Jun;78(2):26–32
[Revolution in asthma related hospital treatment (editorial)] Keistinen T, et al. **Duodecim** 1995;111(16):1590–1 **(Fin)**
[Cost of asthma therapy in relation to severity. An empirical study] Graf von der Schulenburg JM, et al. **Med Klin** 1996 Oct 15;91(10):670–6 (Eng. Abstr.) **(Ger)**
[Cost-effectiveness studies of ambulatory educational programs for children with asthma and their families] Scholtz W, et al. **Pneumologie** 1996 Aug;50(8):538–43 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Serum eosinophil peroxidase (EPO) levels in asthmatic

patients. Sanz ML, et al. **Allergy** 1997 Apr;52(4):417–22
Decreased Cu,Zn–SOD activity in asthmatic airway epithelium: correction by inhaled corticosteroid in vivo. De Raeve HR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L148–54
Eosinophils as a source of matrix metalloproteinase–9 in asthmatic airway inflammation. Ohno I, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):212–9
Enhanced expression of neutral endopeptidase (NEP) in airway epithelium in biopsies from steroid– versus nonsteroid–treated patients with atopic asthma. Sont JK, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):549–56
Prostaglandin H synthase 1 and 2 immunoreactivities in the bronchial mucosa of asthmatics. Demoly P, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):670–5
Characterization of platelet–activating factor acetylhydrolase in human bronchoalveolar lavage. Triggiani M, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):94–100
Cellular protein kinase C activity in asthma. Vachier I, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1211–6
Airway neuropeptides and neutral endopeptidase in asthma [editorial] Chung KF. **Clin Exp Allergy** 1996 May; 26(5):491–3
Lyso–PAF acetyltransferase activity in neutrophils of patients during acute asthma and after recovery. Misso NL, et al. **Eur Respir J** 1996 Nov;9(11):2243–9
Reduced superoxide dismutase in lung cells of patients with asthma. Smith LJ, et al. **Free Radic Biol Med** 1997; 22(7):1301–7
Profound overexpression of leukotriene C4 synthase in bronchial biopsies from aspirin–intolerant asthmatic patients. Sampson AP, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):355–7
Matrix metalloproteinases in bronchoalveolar lavage fluid following antigen challenge. Warner JA, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):318–20
Enzyme–potentiated desensitization in children with asthma and mite allergy: a double–blind study. Cantani A, et al. **J Investig Allergol Clin Immunol** 1996 Jul–Aug;6(4):270–6
Secretory phospholipase A2 activity is elevated in bronchoalveolar lavage fluid after ovalbumin sensitization of guinea pigs. Sane AC, et al. **J Leukoc Biol** 1996 Dec; 60(6):704–9
Serum angiotensin converting enzyme activity in pulmonary diseases: correlation with lung function parameters. Uçar G, et al. **Life Sci** 1997;61(11):1075–82
Alpha 1–antitrypsin deficiency and asthma. The continuing search for the relationship. Pina JS, et al. **Postgrad Med** 1997 Apr;101(4):153–6, 159–62, 167–8 (19 ref.)
[Increased production of nitric oxide in the immediate and late asthmatic responses in guinea pigs] Uchida Y, et al. **Nippon Rinsho** 1996 Feb;54(2):364–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Prevalence of asthma at school age: a clinical population–based study in eastern Finland. Remes ST, et al. **Acta Paediatr** 1996 Jan;85(1):59–63
Wheezing bronchitis reinvestigated at the age of 10 years. Wennergren G, et al. **Acta Paediatr** 1997 Apr;86(4):351–5
Prevalence of asthma, rhinitis and eczema among schoolchildren in Kelantan, Malaysia. Quah BS, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):329–35
Prevalence of asthma and allergic diseases in Turkish university students in Ankara. Kalyoncu AF, et al. **Allergol Immunopathol (Madr)** 1996 Jul–Aug;24(4):152–7
Sex difference in asthma prevalence. Berlier M, et al. **Allergy** 1997 Aug;52(8):871–2
Hospital admissions of asthmatics by age and sex. Harju T, et al. **Allergy** 1996 Oct;51(10):693–6
The prevalence of asthmatic respiratory symptoms among adults in Estonian and Swedish university cities. Jõgi R, et al. **Allergy** 1996 May;51(5):331–6
Prevalence of childhood asthma in Istanbul, Turkey. Oneş U, et al. **Allergy** 1997 May;52(5):570–5
Serum IgE levels, atopy, and asthma in young adults: results from a longitudinal cohort study. Peat JK, et al. **Allergy** 1996 Nov;51(11):804–10
Relevance of birth month in respiratory allergy. Singh BP, et al. **Allergy** 1997 Feb;52(2):232–3
Is the increase in asthma prevalence linked to increase in allergen load? Woolcock AJ, et al. **Allergy** 1995 Dec; 50(12):935–40 (64 ref.)
Reexamination of epidemic asthma in New Orleans, Louisiana, in relation to the presence of soy at the harbor. White MC, et al. **Am J Epidemiol** 1997 Mar 1;145(5):432–8
Exposure to potential occupational asthmogens: prevalence data from the National Occupational Exposure Survey. de la Hoz RE, et al. **Am J Ind Med** 1997 Feb;31(2):195–201
A strategy to reduce healthy worker effect in a cross–sectional study of asthma and metalworking fluids. Eisen EA, et al. **Am J Ind Med** 1997 Jun;31(6):671–7
Prevalence of physician–diagnosed asthma by occupational groupings in Manitoba, Canada. Kraut A, et al. **Am J Ind Med** 1997 Sep;32(3):275–82
An epidemiologic investigation of asthma in welders. Beach JR, et al. **Am J Respir Crit Care Med** 1996 Nov; 154(5):1394–400
Income level and asthma prevalence and care patterns. Erzen D, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1060–5
No evidence for effects of family environment on asthma. A retrospective study of Norwegian twins. Harris JR, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):43–9
Adult patients may outgrow their asthma: a 25–year follow–up study. Panhuysen CI, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1267–72
Trends in asthma prevalence: the Bogalusa Heart Study. Farber HJ, et al. **Ann Allergy Asthma Immunol** 1997 Mar; 78(3):265–9
Prevalence of asthma and wheezing in public schoolchildren: association with maternal smoking during pregnancy. Hu FB, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):80–4
Ethnic differences in the prevalence of asthma in middle class children. Nelson DA, et al. **Ann Allergy Asthma Immunol** 1997 Jan;78(1):21–6
Incidence and prevalence of physician–diagnosed asthma in a suburban population of young adults. Ownby DR, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):304–8
Prevalence of asthma and wheeze in primary school children in northern Jordan. Abuekteish F, et al. **Ann Trop Paediatr** 1996 Sep;16(3):227–31
Near–fatal asthma in South Australia: descriptive features and medication use [see comments] Campbell DA, et al. **Aust N Z J Med** 1996 Jun;26(3):356–62. Comment in: Aust N Z J Med 1996 Aug;26(4):487–9.
The asthma health outcome indicators study. Smith MA, et al. **Aust N Z J Public Health** 1996 Feb;20(1):69–75
The prevalence of adult onset wheeze: longitudinal study. Bodner C, et al. **BMJ** 1997 Mar 15;314(7083):792–3
Incidence and prognosis of asthma to age 33. Bleeding in first 27 weeks of pregnancy had protective effect [letter; comment] Hinshaw K. **BMJ** 1996 Sep 28;313(7060):814; discussion 815. Comment on: BMJ 1996 May 11;312(7040):1195–9.
Incidence and prognosis of asthma to age 33. Registers in general practice give cumulative rather than point prevalence [letter; comment] Livingstone A. **BMJ** 1996 Sep 28;313(7060):815. Comment on: BMJ 1996 May 11;312(7040):1195–9.
Secular trend in the occurrence of asthma among children and young adults: critical appraisal of repeated cross sectional surveys. Magnus P, et al. **BMJ** 1997 Jun 21; 314(7097):1795–9
Incidence and prognosis of asthma to age 33. Asthma or wheezy bronchitis in childhood is independent risk factor for wheezing symptoms in adulthood [letter; comment] Ross S, et al. **BMJ** 1996 Sep 28;313(7060):815. Comment on: BMJ 1996 May 11;312(7040):1195–9.
Asthma in the community and in general practice [letter; comment] Kennedy T, et al. **Br J Gen Pract** 1996 Sep; 46(410):553. Comment on: Br J Gen Pract 1996 May;46(406):277–81. Comment on: Br J Gen Pract 1996 May;46(406):295–97.
Evaluating asthma [letter; comment] Guidotti TL. **Can J Public Health** 1997 Mar–Apr;88(2):138–40. Comment on: Can J Public Health 1996 Nov–Dec;87(6):397–400.
Asthma and limitation of activities in Fort Saskatchewan, Alberta [see comments] Hessel PA, et al. **Can J Public Health** 1996 Nov–Dec;87(6):397–400. Comment in: Can J Public Health 1997 Mar–Apr;88(2):138–40.
Evidence for occupational asthma among compensation claimants at a polyurethane utilizing facility. Liss GM, et al. **Can J Public Health** 1996 Nov–Dec;87(6):401–3
Incidence and outcomes of asthma in the elderly. A population–based study in Rochester, Minnesota. Bauer BA, et al. **Chest** 1997 Feb;111(2):303–10
One airway, one disease. Grossman J. **Chest** 1997 Feb;111(2 Suppl):11S–16S (55 ref.)
Periodicity of asthma, emphysema, and chronic bronchitis in a northwest health maintenance organization. Osborne ML, et al. **Chest** 1996 Dec;110(6):1458–62
The impact of asthma in an inner city general practice. Chadwick S. **Child Care Health Dev** 1996 May;22(3):175–86
Interpretation of epidemiological surveys of asthma. Burney P. **Ciba Found Symp** 1997;206:111–8; discussion 118–21, 157–9 (28 ref.)
Inferences from occupational asthma. Cullinan P, et al. **Ciba Found Symp** 1997;206:160–8; discussion 168–72 (30 ref.)
Evidence for the increase in asthma worldwide. Woolcock AJ, et al. **Ciba Found Symp** 1997;206:122–34; discussion 134–9, 157–9 (72 ref.)
Comparative degree and type of sensitization to common indoor and outdoor allergens in subjects with allergic rhinitis and/or asthma. Boulet LP, et al. **Clin Exp Allergy** 1997 Jan;27(1):52–9
Purification and characterization of a soybean hull allergen responsible for the Barcelona asthma outbreaks. II. Purification and sequencing of the Gly m 2 allergen. Codina R, et al. **Clin Exp Allergy** 1997 Apr;27(4):424–30
Possible explanation for the different trends of asthma and allergy in East and West Germany and immigrants [letter; comment] Kalyoncu AF. **Clin Exp Allergy** 1996 Oct; 26(10):1220. Comment on: Clin Exp Allergy 1996 Jun;26(6):621–3.
Prevalence of childhood asthma based on questionnaires and methacholine bronchial provocation test in Korea. Kim YY, et al. **Clin Exp Allergy** 1997 Jul;27(7):761–8
Variability and repeatability of house dust mite allergen measurement: implications for study design and interpretation. Marks GB, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1190–7
Hay fever, asthma and number of older siblings—a twin study. Räsänen M, et al. **Clin Exp Allergy** 1997 May; 27(5):515–8
The prevalence of atopic sensitization and respiratory symptoms among Estonian schoolchildren. Riikjärv MA, et al. **Clin Exp Allergy** 1995 Dec;25(12):1198–204
The prevalence of allergic diseases in primary school children in Edirne, Turkey. Selçuk ZT, et al. **Clin Exp Allergy** 1997 Mar;27(3):262–9
Thunderstorm–related asthma—the epidemic of 24/25 June 1994. Venables KM, et al. **Clin Exp Allergy** 1997 Jul; 27(7):725–36
Possible explanation for the different trends of asthma and allergy in East and West Germany [see comments] Wichmann HE. **Clin Exp Allergy** 1996 Jun;26(6):621–3 (18 ref.). Comment in: Clin Exp Allergy 1996 Oct;26(10):1220.
Why is asthma becoming more of a problem? Meza C, et al. **Curr Opin Pulm Med** 1997 Jan;3(1):6–9 (23 ref.)
Prevalence of asthma, allergic rhinitis and dermatitis in primary school children in Uasin Gishu district, Kenya. Esamai F, et al. **East Afr Med J** 1996 Jul;73(7):474–8
The attack of asthma. Friebele E. **Environ Health Perspect** 1996 Jan;104(1):22–5
Asthma and the environment. Koren HS, et al. **Environ Health Perspect** 1997 May;105(5):534–7
Association between ozone and asthma emergency department visits in Saint John, New Brunswick, Canada. Stieb DM, et al. **Environ Health Perspect** 1996 Dec; 104(12):1354–60
The association between self–reported symptoms of asthma and allergic rhinitis and self–reported traffic density on street of residence in adolescents. Duhme H, et al. **Epidemiology** 1996 Nov;7(6):578–82
The indoor air and children's health study: methods and incidence rates. Marbury MC, et al. **Epidemiology** 1996 Mar;7(2):166–74
Factors associated with asthma in school children. Moussa MA, et al. **Eur J Epidemiol** 1996 Dec;12(6):583–8
Seasonal variation in childhood asthma hospitalisations in Finland, 1972–1992. Harju T, et al. **Eur J Pediatr** 1997 Jun;156(6):436–9
Variations in the prevalence of respiratory symptoms, self–reported asthma attacks, and use of asthma medication in the European Community Respiratory Health Survey (ECRHS). **Eur Respir J** 1996 Apr;9(4):687–95
Asthma and respiratory symptoms in 6–7 yr old Italian children: gender, latitude, urbanization and socioeconomic factors. SIDRIA (Italian Studies on Respiratory Disorders in Childhood and the Environment). **Eur Respir J** 1997 Aug;10(8):1780–6
Prevalence of asthma–related symptoms and bronchial responsiveness to exercise in children aged 13–14 yrs in Barcelona, Spain. Busquets RM, et al. **Eur Respir J** 1996 Oct;9(10):2094–8
Respiratory infections and the autumn increase in asthma morbidity. Dales RE, et al. **Eur Respir J** 1996 Jan;9(1):72–7
Physician–diagnosed asthma and drug utilization in the European Community Respiratory Health Survey. Janson C, et al. **Eur Respir J** 1997 Aug;10(8):1795–802
Increased prevalence of sleep disturbances and daytime sleepiness in subjects with bronchial asthma: a population study of young adults in three European countries. Janson C, et al. **Eur Respir J** 1996 Oct;9(10):2132–8
Prevalence of asthma and allergy in Hong Kong schoolchildren: an ISAAC study. Leung R, et al. **Eur Respir J** 1997 Feb;10(2):354–60
Changing prevalence of asthma in school children: evidence for diagnostic changes in asthma in two surveys 13 yrs apart. Nystad W, et al. **Eur Respir J** 1997 May; 10(5):1046–51
Prevalence of asthma symptoms in video and written questionnaires among children in four regions of Finland. Pekkanen J, et al. **Eur Respir J** 1997 Aug;10(8):1787–94
Disinfectant use as a risk factor for atopic sensitization and symptoms consistent with asthma: an epidemiological study. Preller L, et al. **Eur Respir J** 1996 Jul;9(7):1407–13
Comparison of reported prevalences of recent asthma in longitudinal and cross–sectional studies. Sears MR, et al. **Eur Respir J** 1997 Jan;10(1):51–4
The relationship between asthma admission rates, routes of admission, and socioeconomic deprivation. Watson JP, et al. **Eur Respir J** 1996 Oct;9(10):2087–93
Higher asthma occurrence in an urban than a suburban area: role of house dust mite skin allergy. Wieringa MH, et al. **Eur Respir J** 1997 Jul;10(7):1460–6
Emergency department visits and hospitalizations for respiratory disease on the island of Hawaii, 1981 to 1991. Mannino DM, et al. **Hawaii Med J** 1996 Mar;55(3):48–54
Increase of asthma and allergic rhinitis prevalence in young Italian men. Ciprandi G, et al. **Int Arch Allergy Immunol** 1996 Nov;111(3):278–83
Frequency of patients with acute asthma in relation to ozone, nitrogen dioxide, other pollutants of ambient air and meteorological observations. Holmén A, et al. **Int Arch Occup Environ Health** 1997;69(5):317–22
Prevalence and reliability of asthma symptoms in primary school children in Cape Town. Ehrlich RI, et al. **Int J Epidemiol** 1995 Dec;24(6):1138–45
Childhood asthma in four regions in Scandinavia: risk factors and avoidance effects. Forsberg B, et al. **Int J Epidemiol** 1997 Jun;26(3):610–9

Severity of childhood asthma by socioeconomic status. Mielck A, et al. **Int J Epidemiol** 1996 Apr;25(2):388–93 (33 ref.)

Asthma presentations to emergency departments in western Sydney during the January 1994 Bushfires. Smith MA, et al. **Int J Epidemiol** 1996 Dec;25(6):1227–36

The effect of season–of–response to ISAAC questions about asthma, rhinitis and eczema in children. Stewart AW, et al. **Int J Epidemiol** 1997 Feb;26(1):126–36

Follow–up after the Hanshin–Awaji earthquake: diverse influences on pneumonia, bronchial asthma, peptic ulcer and diabetes mellitus. Takakura R, et al. **Intern Med** 1997 Feb;36(2):87–91

Asthma, hay fever and eczema in Irish teenagers (ISAAC protocol). Manning PJ, et al. **Ir Med J** 1997 Apr–May; 90(3):110–2

A national census of those attending UK accident and emergency departments with asthma. The UK National Asthma Task Force. Partridge MR, et al. **J Accid Emerg Med** 1997 Jan;14(1):16–20

The distribution of total and specific serum IgE in the European Community Respiratory Health Survey. Burney P, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):314–22

Late–phase inflammation: influence on morbidity. Charlesworth EN. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 3):S291–7 (59 ref.)

Prevalence of cross–sensitivity with acetaminophen and other nonsteroidal antiinflammatory drugs in asthmatic patients [letter; comment] Kalyoncu AF, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):713–4. Comment on: J Allergy Clin Immunol 1995 Oct;96(4):480–5.

Factors associated with pediatric asthma readmissions. Macarthur C, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):992–3

Compliance with peak expiratory flow readings affects the within– and between–reader reproducibility of interpretation of graphs in subjects investigated for occupational asthma. Malo JL, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1132–4

Asthma, nasal allergies, and multiple sclerosis [letter; comment] Neukirch F, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):270–1. Comment on: J Allergy Clin Immunol 1996 Jun;97(6):1402–8.

An epidemiological study of asthma prevalence and related factors among young adults. Hu FB, et al. **J Asthma** 1997; 34(1):67–76

Smoking and asthma among 23–year–olds. Kaplan BA, et al. **J Asthma** 1997;34(3):219–26

Characteristics of predominantly nonwhite patients with frequent hospitalizations for acute asthma in Chicago. Olopade CO, et al. **J Asthma** 1997;34(3):243–8

Has the prevalence of asthma increased in children? Evidence from a long term study in Israel. Goren AI, et al. **J Epidemiol Community Health** 1997 Jun;51(3):227–32

Asthma and thunderstorms: description of an epidemic in general practice in Britain using data from a doctors' deputising service in the UK. Higham J, et al. **J Epidemiol Community Health** 1997 Jun;51(3):233–8

Occurrence of asthma and chronic bronchitis among female hairdressers. A questionnaire study. Leino T, et al. **J Occup Environ Med** 1997 Jun;39(6):534–9

Repeated case–control studies as a method of surveillance for asthma in occupations. Mastrangelo G, et al. **J Occup Environ Med** 1997 Jan;39(1):51–7

A state–based surveillance system for work–related asthma. Rosenman KD, et al. **J Occup Environ Med** 1997 May; 39(5):415–25

Erratum: Prevalence, severity and medical management of asthma in European children [letter] Mitchell EA, et al. **J Paediatr Child Health** 1997 Apr;33(2):177

Prevalence of possible undiagnosed asthma and associated morbidity among urban schoolchildren. Joseph CL, et al. **J Pediatr** 1996 Nov;129(5):735–42

Epidemiologic evidence of an association between air quality and asthma. Leaderer BP, et al. **J Pharm Pharmacol** 1997 May;49 Suppl 3:39–44 (54 ref.)

Reducing hospitalisation in town and country asthma [letter; comment] Watson JP, et al. **Lancet** 1996 Sep 28; 348(9031):897. Comment on: Lancet 1996 Jul 20;348(9021):143–4.

Prevalence of wheeze and asthma and relation to atopy in urban and rural Ethiopia. Yemaneberhan H, et al. **Lancet** 1997 Jul 12;350(9071):85–90

Hospital discharges with asthma, 1991–1995. Buechner JS. **Med Health R I** 1997 Aug;80(8):264–5

Asthma—disease of a modern lifestyle [editorial] Woolcock AJ. **Med J Aust** 1996 Oct 7;165(7):358–9

The relationship between prevalence of asthma and environmental factors in rural households. Noorhassim I, et al. **Med J Malaysia** 1995 Sep;50(3):263–7

Asthma surveillance programs in public health departments—United States. **MMWR Morb Mortal Wkly Rep** 1996 Sep 20;45(37):802–4

Asthma hospitalizations and readmissions among children and young adults—Wisconsin, 1991–1995. **MMWR Morb Mortal Wkly Rep** 1997 Aug 8;46(31):726–9

Asthma: The inner–city problem in New Jersey. Bielory L. **N J Med** 1996 Mar;93(3):176–9

Geographical variation in the prevalence of asthma symptoms in New Zealand. Lewis S, et al. **N Z Med J** 1997 Aug 8;110(1049):286–9

Measuring morbidity from asthma in children. Mitchell EA, et al. **N Z Med J** 1997 Jan 24;110(1036):3–6

Occupational asthma and other nonasbestos occupational respiratory diseases notified between 1993 and 1996. Walls C, et al. **N Z Med J** 1997 Jul 11;110(1047):246–9

Occupational asthma in New Zealanders: a population based study. Fishwick D, et al. **Occup Environ Med** 1997 May; 54(5):301–6

Self reported rate of occupational asthma in Sweden 1990–2. Torén K. **Occup Environ Med** 1996 Nov;53(11):757–61

An estimate of the prevalence, severity and seasonality of asthma in visitors to a Ponce shopping center. Montealegre F, et al. **P R Health Sci J** 1996 Jun;15(2):113–7

The prevalence of respiratory symptoms and asthma among school children in three different areas of Norway. Nystad W, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):35–40

Prevalence of bronchial hyperreactivity as determined by several methods among Estonian schoolchildren. Vasar M, et al. **Pediatr Allergy Immunol** 1996 Aug;7(3):141–6

Epidemiology of asthma: ISAAC—International Study of Asthma and Allergies in Childhood. von Mutius E. **Pediatr Allergy Immunol** 1996;7(9 Suppl):54–6

Risks of developing asthma. Landau LI. **Pediatr Pulmonol** 1996 Nov;22(5):314–8 (33 ref.)

Hospitalization patterns in severe acute asthma in children. Schuh S, et al. **Pediatr Pulmonol** 1997 Mar;23(3):184–92

Comparison of males and females presenting with acute asthma to the emergency department. Awadh N, et al. **Respir Med** 1996 Sep;90(8):485–9

Hospitalization of adults for asthma and inhaled corticosteroid use in an island population. Cacciottolo JM, et al. **Respir Med** 1997 Aug;91(7):411–6

Prevalence of asthma and asthma–like symptoms in Athens, Greece. Papageorgiou N, et al. **Respir Med** 1997 Feb; 91(2):83–8

The epidemiology of atopic diseases in Germany: an east–west comparison. Trepka MJ, et al. **Rev Environ Health** 1996 Jul–Sep;11(3):119–31 (49 ref.)

Clinical characteristics of childhood asthmatics in Johannesburg. Green R, et al. **S Afr Med J** 1997 Jul; 87(7):878–82

Population ageing will lead to an increase in hospitalisation for chronic illnesses like asthma and COPD [letter] Vilkman S, et al. **Scand J Soc Med** 1997 Mar;25(1):26–7

Occurrence of self–reported asthma among Swedish bakers. Brisman SJ, et al. **Scand J Work Environ Health** 1995 Dec; 21(6):487–93

Asthma in patients with farmer's lung during a five–year follow–up. Kokkarinen JI, et al. **Scand J Work Environ Health** 1997 Apr;23(2):149–51

Comparison of soybean epidemic asthma and occupational asthma. Antó JM, et al. **Thorax** 1996 Jul;51(7):743–9 (39 ref.)

Study of the aetiology of wheezing illness at age 16 in two national British birth cohorts. Lewis S, et al. **Thorax** 1996 Jul;51(7):670–6

Occupational asthma [letter; comment] Malo JL, et al. **Thorax** 1996 Nov;51(11):1168. Comment on: Thorax 1996 Apr;51(4):435–40.

Effect of gender on hospital admissions for asthma and prevalence of self–reported asthma: a prospective study based on a sample of the general population. Copenhagen City Heart Study Group. Prescott E, et al. **Thorax** 1997 Mar;52(3):287–9

[The prevalence of bronchial asthma is increasing and mortality varies] Vondra V, et al. **Cas Lek Cesk** 1996 Jul 31;135(15):471–6 (15 ref.) (Eng. Abstr.) **(Cze)**

[The epidemiology and genetics of asthma. II. Genetic aspects of the epidemiology of asthma and atopy] Demoly P, et al. **Rev Mal Respir** 1996 Dec;13(6):547–53 (61 ref.) (Eng. Abstr.) **(Fre)**

[The epidemiology and genetics of asthma. I. Descriptive epidemiology and analysis of environmental factors] Jaffuel D, et al. **Rev Mal Respir** 1996 Oct;13(5):455–65 (105 ref.) (Eng. Abstr.) **(Fre)**

[NO2 concentration in outdoor air and ambulatory physician consultations by children with asthma. Collaboration with the Lower Saxony and Saxony–Anhalt district health offices] Seidler A, et al. **Pneumologie** 1996 Dec; 50(12):889–94 (Eng. Abstr.) **(Ger)**

[The SAPALDIA Study—no results? (editorial)] Künzli N. **Soz Praventivmed** 1997;42(3):131–2 **(Ger)**

[EC Respiratory Health Surgery in the north of Italy: methodological problems of a multicenter study of prevalence of asthma] DeMarco R, et al. **Epidemiol Prev** 1994 Dec;18(61):211–7 (Eng. Abstr.) **(Ita)**

[Occupational asthma: considerations on epidemiology and criteria of damage evaluation] Innocenti A. **Med Lav** 1997 Jan–Feb;88(1):3–12 (Eng. Abstr.) **(Ita)**

[Occurrence of asthma among school children in Norway during the period 1985–94] Nystad W, et al. **Tidsskr Nor Laegeforen** 1997 Feb 20;117(5):644–7 (Eng. Abstr.) **(Nor)**

[Evaluation of the prevalence sensitization to common inhaled allergens in children of school age using skin tests] Bręborowicz A, et al. **Pediatr Pol** 1996 Jan;71(1):11–4 (Eng. Abstr.) **(Pol)**

[Frequency of positive skin tests in asthma patients over 30 years] Buczyłko K, et al. **Pneumonol Alergol Pol** 1997; 65(1–2):61–4 (Eng. Abstr.) **(Pol)**

[Atmospheric air pollution as a factor potentiating the risk of asthma in school children. Epidemiologic studies in Krakow] Jędrychowski W, et al. **Przegl Lek** 1997; 54(3):158–62 (Eng. Abstr.) **(Pol)**

[The prevalence of bronchial asthma, chronic bronchitis and COBP in representative samples of the adult population] Dutu S, et al. **Pneumoftiziologia** 1996 Jul–Dec; 45(3–4):139–43 (Eng. Abstr.) **(Rum)**

[Epidemiology of bronchial asthma in children in the Arkhangelsk region] Shraga MKh, et al. **Med Tr Prom Ekol** 1997;(1):42–5 (Eng. Abstr.) **(Rus)**

[Characteristics of infantile asthma in patients seen in primary care] Alba F, et al. **Aten Primaria** 1996 Jun 30;18(2):83–6 (Eng. Abstr.) **(Spa)**

[There is not data on the epidemiology and mortality of asthma in Mexico (letter)] Ramos Herrera IM. **Gac Med Mex** 1996 Mar–Apr;132(2):240 **(Spa)**

[Epidemiologic aspects of childhood asthma in Mexico. Asthma in the Child Study Group] Vargas MH, et al. **Gac Med Mex** 1996 May–Jun;132(3):255–65 (Eng. Abstr.) **(Spa)**

[Soy–seed asthma epidemics in small cities (letter)] García–Ortega P, et al. **Med Clin (Barc)** 1997 May 3; 108(17):677 **(Spa)**

[Asthma in a population of children and its relation to airborne environmental pollutants in Mexico City. A cohort study. Mexico, 1991. Experimental design] Meneses González F, et al. **Rev Alerg Mex** 1996 May–Jun; 43(3):66–72 (Eng. Abstr.) **(Spa)**

[Prevalence of asthma: survey of a school population in Coatzacoalcos, Veracruz, Mexico] Salgado Gama JI, et al. **Rev Alerg Mex** 1996 Jul–Aug;43(4):80–3 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Race, asthma, and persistent wheeze in Philadelphia schoolchildren [see comments] Cunningham J, et al. **Am J Public Health** 1996 Oct;86(10):1406–9. Comment in: Am J Public Health 1996 Oct;86(10):1361–2.

Social class and asthma—distinguishing between the disease and the diagnosis [editorial; comment] Gergen P. **Am J Public Health** 1996 Oct;86(10):1361–2. Comment on: Am J Public Health 1996 Oct;86(10):1406–9.

Asthma among Puerto Rican Hispanics: a multi–ethnic comparison study of risk factors. Beckett WS, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):894–9

Asthma in a Vietnamese refugee population. Ries AL, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1895–901

Ethnic differences in the prevalence of asthma in middle class children. Nelson DA, et al. **Ann Allergy Asthma Immunol** 1997 Jan;78(1):21–6

Study in London confirms influence of ethnic group on treatment for asthma [letter] Sturdy P, et al. **BMJ** 1996 Nov 16;313(7067):1260

Family size, atopic disorders in parents, asthma in children, and ethnicity. Rona RJ, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):454–60

Organizing the community to target poor Latino children with asthma. Lewis MA, et al. **J Asthma** 1996;33(5):289–97

Characteristics of predominantly nonwhite patients with frequent hospitalizations for acute asthma in Chicago. Olopade CO, et al. **J Asthma** 1997;34(3):243–8

A genome–wide search for asthma susceptibility loci in ethnically diverse populations. The Collaborative Study on the Genetics of Asthma (CSGA). **Nat Genet** 1997 Apr; 15(4):389–92

ETIOLOGY

Association between substance abuse and acute exacerbation of bronchial asthma [letter] Gaeta TJ, et al. **Acad Emerg Med** 1996 Dec;3(12):1170–2

New–onset bronchospasm or recrudescence of asthma associated with cocaine abuse. Osborn HH, et al. **Acad Emerg Med** 1997 Jul;4(7):689–92

Risk of asthma in children with a history of croup. Nicolai T, et al. **Acta Paediatr** 1996 Nov;85(11):1295–9

Effects of an acaricide on mite allergen levels in the homes of asthmatic children. Chew FT, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):483–8

Childhood asthma and atmospheric conditions. Yüksel H, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):606–10

Occupational asthma in a cheese worker. Añibarro Bausela B, et al. **Allergy** 1996 Dec;51(12):960–1

Bronchial asthma—no more doubts? [editorial; comment] Bonini S. **Allergy** 1996 Apr;51(4):203–5 (20 ref.). Comment on: Allergy 1996 Apr;51(4):226–31.

Recombinant mite allergens. New technologies for the management of patients with asthma. Chapman MD, et al. **Allergy** 1997 Apr;52(4):374–9 (34 ref.)

Changed allergy pattern in outpatients. Ciprandi G, et al. **Allergy** 1997 Mar;52(3):351–2

Birch pollinosis and atopy caused by apple, peach, and hazelnut; comparison of three extraction procedures with two apple strains. de Groot H, et al. **Allergy** 1996 Oct; 51(10):712–8

Occupational asthma and rhinitis caused by ash (Fraxinus excelsior) wood dust. Fernández–Rivas M, et al. **Allergy** 1997 Feb;52(2):196–9

Occupational asthma induced by aniseed. Fraj J, et al. **Allergy** 1996 May;51(5):337–9

Snail ingestion and asthma. Grembiale RD, et al. **Allergy** 1996 May;51(5):361

Studies of bronchial asthma induced by chironomid midges

(Diptera) around a hypereutrophic lake in Japan. Hirabayashi K, et al. **Allergy** 1997 Feb;52(2):188–95
Bronchospasm induced by royal jelly. Laporte JR, et al. **Allergy** 1996 Jun;51(6):440
Occupational asthma caused by aromatic herbs. Lemière C, et al. **Allergy** 1996 Sep;51(9):647–9
Occupational asthma to lobster and shrimp. Lemière C, et al. **Allergy** 1996 Apr;51(4):272–3
Urinary leukotriene E4 and 11-dehydrothromboxane B2 in patients with aspirin-sensitive asthma. Oosaki R, et al. **Allergy** 1997 Apr;52(4):470–3
Indoor mite allergens in patients with respiratory allergy living in Porto, Portugal. Plácido JL, et al. **Allergy** 1996 Sep;51(9):633–9
Occupational asthma caused by fish inhalation. Rodríguez J, et al. **Allergy** 1997 Aug;52(8):866–9
Occupational asthma caused by black henna. Scibilia J, et al. **Allergy** 1997 Feb;52(2):231–2
Domestic mites from an acarologic perspective. Spieksma FT. **Allergy** 1997 Apr;52(4):360–8 (71 ref.)
Mechanism of aspirin-induced asthma. Szczeklik A. **Allergy** 1997 Jun;52(6):613–9 (76 ref.)
Asthma after consumption of snails in house-dust-mite-allergic patients: a case of IgE cross-reactivity. van Ree R, et al. **Allergy** 1996 Jun; 51(6):387–93
Is the increase in asthma prevalence linked to increase in allergen load? Woolcock AJ, et al. **Allergy** 1995 Dec; 50(12):935–40 (64 ref.)
Asthma and rhinitis in wooding workers. De Zotti R, et al. **Allergy Asthma Proc** 1996 Jul–Aug;17(4):199–203
Effects of growth and development on lung function. Models for study of childhood asthma. Busse WW, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):314–9
Clinical improvement of asthma after anthelminthic treatment in a tropical situation. Lynch NR, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):50–4
The risk of asthma attributable to occupational exposures: a population-based study in Spain [letter; comment] Milton D, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):382–3 . Comment on: Am J Respir Crit Care Med 1996 Jul;154(1):137–43.
Respiratory effects are associated with the number of ultrafine particles. Peters A, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1376–83
Smoking and asthma in the workplace [letter; comment] Siracusa A, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1168. Comment on: Am J Respir Crit Care Med 1996 Jul;154(1);137–43.
Occupational asthma from welding: a case report. Khoo GT. **Ann Acad Med Singapore** 1996 Mar;25(2):293–5
Identification of IgE-binding components in occupational asthma caused by corn dust. Park HS, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):75–9
Occupational allergic rhinoconjunctivitis and asthma due to fennel seed. Schwartz HJ, et al. **Ann Allergy Asthma Immunol** 1997 Jan;78(1):37–40
Epigallocatechin gallate-induced histamine release in patients with green tea-induced asthma. Shirai T, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):65–9
Parental smoking behavior and passive smoke exposure in children with asthma. Winkelstein ML, et al. **Ann Allergy Asthma Immunol** 1997 Apr;78(4):419–23
IL-4 differentiates naive CD8+ T cells to a "Th2-like" phenotype: a link between viral infections and bronchial asthma. Coyle AJ, et al. **Ann N Y Acad Sci** 1996 Oct 31; 796:97–103
Parental and neonatal risk factors for atopy, airway hyper-responsiveness, and asthma. Sears MR, et al. **Arch Dis Child** 1996 Nov;75(5):392–8
Associations between health and air pollution in time-series analyses. Goldsmith JR, et al. **Arch Environ Health** 1996 Sep–Oct;51(5):359–67
Airborne fungus allergen in association with residential characteristics in atopic and control children in a subtropical region. Li CS, et al. **Arch Environ Health** 1997 Jan–Feb;52(1):72–9
Nutrition and asthma. Monteleone CA, et al. **Arch Intern Med** 1997 Jan 13;157(1):23–34 (61 ref.)
Patients' perceptions of food-induced asthma. Woods RK, et al. **Aust N Z J Med** 1996 Aug;26(4):504–12
Asthma: early predisposing factors. Doull IJ, et al. **Br Med Bull** 1997 Jan;53(1):71–80 (42 ref.)
Are cockroaches really harmless? Frank J, et al. **Can Fam Physician** 1997 Sep;43:1529–30 (2 ref.)
Asthma pathogenesis and the peripatetic polymorphonuclear granulocyte. The phlogistic plot thickens [editorial; comment] Bernstein IL. **Chest** 1996 Nov;110(5):1138–9. Comment on: Chest 1996 Nov;110(5):1236–42.
New insights into the understanding of asthma. Davies RJ, et al. **Chest** 1997 Feb;111(2 Suppl):2S–10S (41 ref.)
The role of gastroesophageal reflux in chronic cough and asthma. Harding SM, et al. **Chest** 1997 May; 111(5):1389–402 (85 ref.)
Leukotrienes in the pathogenesis of asthma. O'Byrne PM. **Chest** 1997 Feb;111(2 Suppl):27S–34S (94 ref.)
Air pollution and trends in asthma. Anderson HR. **Ciba Found Symp** 1997;206:190–202; discussion 203–7 (50 ref.)
Maternal risk factors in asthma. Martinez FD. **Ciba Found Symp** 1997;206:233–9; discussion 239–43 (40 ref.)
Diet as a risk factor for asthma. Weiss ST. **Ciba Found Symp** 1997;206:244–57: discussion 253–7 (53 ref.)
Diversity of allergens causing occupational asthma among cereal workers as demonstrated by exposure procedures [see comments] Alvarez MJ, et al. **Clin Exp Allergy** 1996 Feb;26(2):147–53. Comment in: Clin Exp Allergy 1996 Feb;26(2):128–31.
Human late asthmatic reactions. Bentley AM, et al. **Clin Exp Allergy** 1997 May;27 Suppl 1:71–86 (159 ref.)
Purification and characterization of a soybean hull allergen responsible for the Barcelona asthma outbreaks. II. Purification and sequencing of the Gly m 2 allergen. Codina R, et al. **Clin Exp Allergy** 1997 Apr;27(4):424–30
Aetiology of occupational asthma. Cullinan P, et al. **Clin Exp Allergy** 1997 May;27 Suppl 1:41–6 (29 ref.)
The inflammatory basis of asthma and its implications for drug treatment. Holgate ST. **Clin Exp Allergy** 1996 Jun; 26 Suppl 4:1–4 (28 ref.)
Wheat antigen exposure assessment for epidemiological studies in bakeries using personal dust sampling and inhibition ELISA [see comments] Houba R, et al. **Clin Exp Allergy** 1996 Feb;26(2):154–63. Comment in: Clin Exp Allergy 1996 Feb;26(2):128–31.
The association of family size with atopy and atopic disease. Jarvis D, et al. **Clin Exp Allergy** 1997 Mar;27(3):240–5
Mechanisms of occupational asthma. Maestrelli P, et al. **Clin Exp Allergy** 1997 May;27 Suppl 1:47–54 (83 ref.)
Buckwheat flour hypersensitivity: an occupational asthma in a noodle maker. Park HS, et al. **Clin Exp Allergy** 1996 Apr;26(4):423–7
Cereal-induced occupational asthma [editorial; comment] Sandiford CP. **Clin Exp Allergy** 1996 Feb;26(2):128–31. Comment on: Clin Exp Allergy 1996 Feb;26(2):147–53. Comment on: Clin Exp Allergy 1996 Feb;26(2):154–63.
Asthma and anaphylaxis induced by royal jelly. Thien FC, et al. **Clin Exp Allergy** 1996 Feb;26(2):216–22
Immunotherapy for house dust allergy. Vóna I. **Clin Otolaryngol** 1997 Feb;22(1):52–6
Occupational asthma. Dykewicz MS. **Compr Ther** 1997 Feb; 23(2):141–7 (7 ref.)
Special problems of the asthmatic patient. Wallace JM, et al. **Curr Opin Pulm Med** 1997 Jan;3(1):72–9 (60 ref.)
New asthma efforts in the Bronx [news] Claudio L. **Environ Health Perspect** 1996 Oct;104(10):1028–9
The effect of outdoor fungal spore concentrations on daily asthma severity. Delfino RJ, et al. **Environ Health Perspect** 1997 Jun;105(6):622–35
The attack of asthma. Friebele E. **Environ Health Perspect** 1996 Jan;104(1):22–5
Particulate air pollution and respiratory disease in Anchorage, Alaska. Gordian ME, et al. **Environ Health Perspect** 1996 Mar;104(3):290–7
Asthma and the environment. Koren HS, et al. **Environ Health Perspect** 1997 May;105(5):534–7
Air pollution and emergency room visits for asthma in Santa Clara County, California. Lipsett M, et al. **Environ Health Perspect** 1997 Feb;105(2):216–22
Indoor risk factors for asthma and wheezing among Seattle school children. Maier WC, et al. **Environ Health Perspect** 1997 Feb;105(2):208–14
Medication use modifies the health effects of particulate sulfate air pollution in children with asthma. Peters A, et al. **Environ Health Perspect** 1997 Apr;105(4):430–5
Clinical characteristics of chemical sensitivity: an illustrative case history of asthma and MCS. Ross GH. **Environ Health Perspect** 1997 Mar;105 Suppl 2:437–41
Association of Chlamydia pneumoniae IgA antibodies with recently symptomatic asthma. Hahn DL, et al. **Epidemiol Infect** 1996 Dec;117(3):513–7
Influence of environmental tobacco smoke on asthma in nonallergic and allergic children. Chen Y, et al. **Epidemiology** 1996 Sep;7(5):536–9
The role of passive smoking in the development of bronchial obstruction during the first 2 years of life. Nafstad P, et al. **Epidemiology** 1997 May;8(3):293–7
Dietary fat and asthma: is there a connection? Black PN, et al. **Eur Respir J** 1997 Jan;10(1):6–12 (72 ref.)
Occupational asthma due to a widely used soft solder flux not containing colophony. Convery RP, et al. **Eur Respir J** 1997 Jan;10(1):238–40
Priming of circulating human eosinophils following late response to allergen challenge [see comments] Evans DJ, et al. **Eur Respir J** 1996 Apr;9(4):703–8. Comment in: Eur Respir J 1997 Jan;10(1):251–2.
Prevalence and intensity of rhinoconjunctivitis in subjects with occupational asthma. Malo JL, et al. **Eur Respir J** 1997 Jul;10(7):1513–5
Biological effects of diesel exhaust particles (DEP). III. Pathogenesis of asthma like symptoms in mice. Sagai M, et al. **Free Radic Biol Med** 1996;21(2):199–209
Thromboxane A2 and related prostaglandins in airways. Devillier P, et al. **Fundam Clin Pharmacol** 1997;11(1):2–18 (186 ref.)
Genetic and environmental factors associated with asthma. Bener A, et al. **Hum Biol** 1996 Jun;68(3):405–14
Interleukin-5 and eosinophils induce airway damage and bronchial hyperreactivity during allergic airway inflammation in BALB/c mice. Hogan SP, et al. **Immunol Cell Biol** 1997 Jun;75(3):284–8
Adverse effects of colophony. Keira T, et al. **Ind Health** 1997;35(1):1–7 (63 ref.)
Experimental asthma developed by room air contamination with cockroach allergen. Kang BC, et al. **Int Arch Allergy Immunol** 1996 Nov;111(3):299–306
Environmental risk factors in atopic asthma. Koren HS. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):65–8 (27 ref.)
Allergen sensitization and perennial asthma. Platts-Mills TA, et al. **Int Arch Allergy Immunol** 1997 May–Jul; 113(1–3):83–6 (33 ref.)
Evaluating the factors that relate to asthma severity in adolescents. Togias A, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):87–95
The medical importance of cockroaches. Baumholtz MA, et al. **Int J Dermatol** 1997 Feb;36(2):90–6 (19 ref.)
Eosinophils, respiratory viruses and allergic asthma. Handzel ZT. **Isr J Med Sci** 1997 Jan;33(1):66–70 (40 ref.)
Attitudes of primary care physicians to the management of asthma and their perception of its relationship to patients' work. Kahan E, et al. **Isr J Med Sci** 1996 Sep;32(9):757–62
Alcohol-induced bronchial asthma [letter; comment] Ayres JG. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):860. Comment on: J Allergy Clin Immunol 1996 Jan;97(1 Pt 1):74–84.
Inhaled mite allergen [letter; comment] Carswell F. **J Allergy Clin Immunol** 1997 Feb;99(2):269–70. Comment on: J Allergy Clin Immunol 1996 May;97(5):1040–4.
Asthma caused by Dermestidae (black carpet beetle): a new allergen in house dust. Cuesta-Herranz J, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):147–9
Bronchoscopy as a research tool for the study of asthma pathogenesis and effects of antiasthma drugs. Djukanović R. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S41–5; discussion S64–6 (35 ref.)
Occupational asthma caused by hypersensitivity to ground bugs. García Lázaro MA, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):267–8
High levels of eosinophil cationic protein in wheezing infants predict the development of asthma. Koller DY, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):752–6
Sensitization to inhaled allergens as a risk factor for asthma and allergic diseases in Chinese population. Leung R, et al. **J Allergy Clin Immunol** 1997 May;99(5):594–9
Compliance with peak expiratory flow readings affects the within- and between-reader reproducibility of interpretation of graphs in subjects investigated for occupational asthma. Malo JL, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1132–4
Asthma, nasal allergies, and multiple sclerosis [letter; comment] Neukirch F, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):270–1. Comment on: J Allergy Clin Immunol 1996 Jun;97(6):1402–8.
Carrot-induced asthma: immunodetection of allergens. Quirce S, et al. **J Allergy Clin Immunol** 1997 May; 99(5):718–9
New insights into the pathogenesis and management of steroid-resistant asthma. Spahn JD, et al. **J Asthma** 1997; 34(3):177–94 (150 ref.)
Complexity and redundancy in the pathogenesis of asthma: reassessing the roles of mast cells and T cells. Galli SJ. **J Exp Med** 1997 Aug 4;186(3):343–7 (46 ref.)
Ambient air quality and asthma: a northern perspective. Guidotti TL. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):7–13 (55 ref.)
Arnold's nerve reflex among pollinosis patients: sign of predictable asthma? May KL. **J Investig Allergol Clin Immunol** 1996 Jan–Feb;6(1):47–9
Asthma and its relation with Dermatophagoides pteronyssinus and Dermatophagoides farinae in Andean altitudes (Quito, Ecuador). Valdivieso R, et al. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):46–50
Modification of human LDL by in vitro incubation with cigarette smoke or copper ions: implications for allergies, asthma and atherosclerosis. Vruwink KG, et al. **J Investig Allergol Clin Immunol** 1996 Sep–Oct; 6(5):294–300
Total serum IgE in trimellitic anhydride-induced asthma. Backman KS, et al. **J Occup Environ Med** 1996 Apr; 38(4):347–51
Allergy and asthma in central Australia [letter] Weiner JM, et al. **Med J Aust** 1996 Nov 4;165(9):526
Pharmacological characteristics of leukotriene antagonists. Nicosia S. **Monaldi Arch Chest Dis** 1996 Dec;51(6):556
Cockroach allergen and asthma [letter] Jaén CR. **N Engl J Med** 1997 Sep 11;337(11):791–2
Asthma and indoor exposure to allergens [editorial; comment] Platts-Mills TA, et al. **N Engl J Med** 1997 May 8; 336(19):1382–4. Comment on: N Engl J Med 1997 May 8;336(19):1356–63.
A study of occupational asthma in New Jersey. Hudgins JF, et al. **N J Med** 1996 Jan;93(1):32–4 (18 ref.)
Under the volcano: fire, ash and asthma? Bradshaw L, et al. **N Z Med J** 1997 Mar 28;110(1040):90–1
House dust mite and cat allergen levels in domestic dwellings in Christchurch. Martin IR, et al. **N Z Med J** 1997 Jun 27;110(1046):229–31
Occupational asthma and other nonasbestos occupational respiratory diseases notified between 1993 and 1996. Walls C, et al. **N Z Med J** 1997 Jul 11;110(1047):246–9
Gastroesophageal reflux: a common exacerbating factor in adult asthma. Sullivan CA, et al. **Nurse Pract** 1996 Nov; 21(11):82–4, 93–4, 96 (28 ref.)
Longitudinal decline in lung function in patients with

occupational asthma due to western red cedar. Lin FJ, et al. **Occup Environ Med** 1996 Nov;53(11):753–6
Nonspecific bronchial hyperresponsiveness and development of asthma in children with hay fever. Añibarro B, et al. **Pediatr Allergy Immunol** 1995 Nov;6(4):200–3
Asthma induced by ice water ingestion in ethnic Chinese asthmatic children: a challenge. Lin YZ, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):11–6
House dust mite exposure in asthmatic and healthy children: the difference is carpeting. Meijer GG, et al. **Pediatr Allergy Immunol** 1995 Nov;6(4):187–91
Childhood asthma and exposure to indoor allergens: low mite levels are associated with sensitivity. Warner AM, et al. **Pediatr Allergy Immunol** 1996 May;7(2):61–7
The effect of human calcitonin gene-related peptide on eosinophil chemotaxis in the rat airway. Bellibaş SE. **Peptides** 1996;17(3):563–4
On the scent of asthma. Kerrigan P. **Practitioner** 1997 Jan; 241(1570):48 (0 ref.)
Emerging drug targets in the molecular pathogenesis of asthma. Jucker JF, et al. **Prog Drug Res** 1996;47:165–210 (130 ref.)
Role of the respiratory epithelium in asthma. Jacoby DB. **Res Immunol** 1997 Jan;148(1):48–58 (139 ref.)
Interleukins involved in the pathogenesis of chronic airway inflammation. Lasky JA, et al. **Res Immunol** 1997 Jan; 148(1):39–47 (90 ref.)
Asthma and its pathogenesis—clinical and scientific aspects. Abstracts of the 15th summer meeting of the British Association for Lung Research. Southampton, United Kingdom, 19–20 September 1996. **Respir Med** 1997 Jan; 91(1):A1–46
Risk factors for development of asthma in children and adolescents: findings from a longitudinal population study. Ulrik CS, et al. **Respir Med** 1996 Nov;90(10):623–30
Asthma in goldminers. Cowie RL, et al. **S Afr Med J** 1996 Jul;86(7):804–7
Asthma in goldminers [letter] Cowie RL. **S Afr Med J** 1997 Mar;87(3):337
Latex allergy: a South Dakota problem. Bubak ME. **S D J Med** 1996 Apr;49(4):119–20
Serology of chlamydia in relation to asthma and bronchial hyperresponsiveness. Bjornsson E, et al. **Scand J Infect Dis** 1996;28(1):63–9
Bronchial asthma and air pollution at workplaces. Flodin U, et al. **Scand J Work Environ Health** 1996 Dec;22(6):451–6
Asthma: an epidemic in the absence of infection? [comment] Cookson WO, et al. **Science** 1997 Jan 3;275(5296):41–2. Comment on: Science 1996 Jan 3;275(5296):77–9.
The home environment and asthma symptoms in childhood: two population based case–control studies 13 years apart. Butland BK, et al. **Thorax** 1997 Jul;52(7):618–24
Climate and aeroallergen levels in asthma: a 12 month prospective study. Epton MJ, et al. **Thorax** 1997 Jun; 52(6):528–34
Association between type of training and risk of asthma in elite athletes. Helenius IJ, et al. **Thorax** 1997 Feb; 52(2):157–60
Premenstrual asthma: still poorly understood [editorial; comment] O'Connor BJ. **Thorax** 1997 Jul;52(7):591–2. Comment on: Thorax 1997 Jul;52(7):608–11.
Bronchial reactivity and dietary antioxidants. Soutar A, et al. **Thorax** 1997 Feb;52(2):166–70
Does influenza immunisation cause exacerbations of chronic airflow obstruction or asthma? Watson JM, et al. **Thorax** 1997 Feb;52(2):190–4 (51 ref.)
Damp housing and asthma: a case–control study. Williamson IJ, et al. **Thorax** 1997 Mar;52(3):229–34
NF-kappa B: a pivotal role in asthma and a new target for therapy. Barnes PJ, et al. **Trends Pharmacol Sci** 1997 Feb; 18(2):46–50 (37 ref.)
Nitric oxide, nitrogen metabolism and inflammatory respiratory disease. An hypothesis. Janson L, et al. **Ups J Med Sci** 1997;102(1):21–33 (51 ref.)
Self-reported food reactions and their associations with asthma. Emery NL, et al. **West J Nurs Res** 1996 Dec; 18(6):643–54
[A sample survey and multiple factor analysis on asthma in urban area of Shanghai] Lin S, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1996 Feb; 19(1):11–3 (Eng. Abstr.) **(Chi)**
[Impact on the development of extrinsic asthma caused by dust mites exposure, and its sensitization in Jiangsu] Liu Y, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun;17(3):157–9 (Eng. Abstr.) **(Chi)**
[ICAM-1 and allergic inflammation] Canonica GW. **Allerg Immunol (Paris)** 1997 Mar;29(3):77–9; discussion 84 (17 ref.) (Eng. Abstr.) **(Fre)**
[Respiratory inflammation] Holgate ST. **Allerg Immunol (Paris)** 1997 Mar;29(3):75–6; discussion 82 (11 ref.) (Eng. Abstr.) **(Fre)**
[Home environment and severe asthma in adolescence] Neukirch F. **Rev Epidemiol Sante Publique** 1996 Jan; 44(1):94–5 **(Fre)**
[Study by questionnaire of the influence of weather conditions, particularly fog, on the symptomatology of asthmatic subjects] Kopferschmitt-Kübler MC, et al. **Rev Mal Respir** 1996;13(4):421–7 (Eng. Abstr.) **(Fre)**
[Asthma caused by food allergy] Moneret-Vautrin DA, et al. **Rev Med Interne** 1996;17(7):551–7 (73 ref.) (Eng. Abstr.) **(Fre)**
[Clinical aspects of environmental illnesses of the nose and paranasal sinuses—science and clinical practice] Bachert C. **Eur Arch Otorhinolaryngol Suppl** 1996;1:73–153 (651 ref.) **(Ger)**
[Ficus benjamina allergy] Brehler R, et al. **Hautarzt** 1996 Oct;47(10):780–2 (Eng. Abstr.) **(Ger)**
[Different threshold concentrations for sensitization by cattle hair allergen Bos d 2 in atopic and non-atopic farmers] Hinze S, et al. **Pneumologie** 1996 Feb;50(2):177–81 (Eng. Abstr.) **(Ger)**
[Room air allergens: clinical significance, detection and prevention] Müsken H. **Pneumologie** 1996 Feb;50(2):168–76 (119 ref.) **(Ger)**
[List of potential etiological agents in occupationally-induced asthmatic diseases] Nowak D. **Pneumologie** 1996 Dec; 50(12):875–88 (258 ref.) **(Ger)**
[Bronchial asthma: extrinsic, intrinsic or mixed?] Virchow JC Jr. **Wien Med Wochenschr** 1996;146(15):415–8 (36 ref.) (Eng. Abstr.) **(Ger)**
[Indoor chemical pollutants and their effects on health] De Luca D'Alessandro E, et al. **Ann Ig** 1996 Sep–Oct; 8(5):593–5 (Eng. Abstr.) **(Ita)**
[Clinical significant correlation between to the onset of bronchial asthma in children and family history of allergic diseases. Part 2. The onset of allergic diseases of their parents and bronchial asthma in children] Shiigai N. **Arerugi** 1995 Dec;44(12):1369–78 (Eng. Abstr.) **(Jpn)**
[Clinical significant correlation between to the onset of bronchial asthma in children and family history of allergic diseases. Part 1. Comparison of various allergic diseases in the family history and onset of bronchial asthma in children] Shiigai N. **Arerugi** 1995 Nov;44(11):1262–71 (Eng. Abstr.) **(Jpn)**
[A case of asthmatic patient with gastroesophageal reflux] Tanaka S, et al. **Arerugi** 1997 May;46(5):433–7 **(Jpn)**
[Role of fungi in pathogenesis of adulthood bronchial asthma] Akiyama K. **Jpn J Antibiot** 1997 Jan;50(1):71–4; discussion 75–6 **(Jpn)**
[Two cases of asthmatic attack caused by spinal anesthesia] Kawabata KM. **Masui** 1996 Jan;45(1):102–6 (Eng. Abstr.) **(Jpn)**
[Role of nitric oxide in asthma-like symptoms induced by diesel exhaust particles in mice] Sagai M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:212–7 (Eng. Abstr.) **(Jpn)**
[Regulation of gene expression of L-histidine decarboxylase and histamine N-methyl-transferase, and its relevance to the pathogenesis of bronchial asthma] Yamauchi K. **Nippon Rinsho** 1996 Feb;54(2):377–88 (34 ref.) (Eng. Abstr.) **(Jpn)**
[Bronchial asthma in the elderly: special reference to pathogenesis and treatment] Kida K. **Nippon Ronen Igakkai Zasshi** 1997 Mar;34(3):180–4 (19 ref.) **(Jpn)**
[Environmental allergens and allergic diseases] Akiyama K. **Rinsho Byori** 1997 Jan;45(1):13–8 (16 ref.) (Eng. Abstr.) **(Jpn)**
[The roles of adhesion molecules, cytokines and chemokines in relation to eosinophil activation in allergic inflammation] Chihara J. **Rinsho Byori** 1996 Dec;44(12):1147–51 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Usefulness of allergen extract Aquagen® SQ-Dpt for administering bronchial provocation tests] Siergiejko Z, et al. **Pneumonol Alergol Pol** 1996;64(11–12):750–7 (Eng. Abstr.) **(Pol)**
[The effect of bronchial inhalation provocation tests on levels of interleukin-8 in material from broncho-alveolar fluid of patients with atopic bronchial asthma] Jahnz-Różyk K, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):32–5 (Eng. Abstr.) **(Pol)**
[Domestic factors and respiratory symptoms in children] Wojtyniak B, et al. **Przegl Epidemiol** 1995;49(4):417–24 (Eng. Abstr.) **(Pol)**
[Adhesion molecules and their role in bronchial asthma] Stoicescu P, et al. **Pneumoftiziologia** 1997 Jan–Mar; 46(1):59–61 (7 ref.) **(Rum)**
[New proofs of active oxygen forms involvement in pathogenesis of bronchial asthma] Bolevich S, et al. **Klin Med (Mosk)** 1997;75(8):34–6 **(Rus)**
[Pathogenesis of bronchial asthma] Maianskii DN. **Ter Arkh** 1995;67(12):77–80 (31 ref.) **(Rus)**
[Risk factors for allergic bronchial asthma] Tomić-Spirić V, et al. **Srp Arh Celok Lek** 1996 Sep–Oct;124(9–10):267–70 (43 ref.) (Eng. Abstr.) **(Scc)**
[Platelet activating factor and bronchial asthma. Is it relevant? (editorial)] Rodríguez Roisin R. **Arch Bronconeumol** 1997 Apr;33(4):161–3 **(Spa)**
[Viruses precipitating asthmatic crises] López Pérez GT, et al. **Rev Alerg Mex** 1993 Sep–Oct;40(5):135–8 (Eng. Abstr.) **(Spa)**
[Evaluation of the RAST in the diagnosis of children with food allergy] Medina RR, et al. **Rev Alerg Mex** 1996 Jan–Feb;43(1):9–12 (Eng. Abstr.) **(Spa)**
[Exposure to pollutants and allergens in the asthmatic child compared with the healthy child] Sarrazola Sanjuan DM, et al. **Rev Alerg Mex** 1997 Jan–Feb;44(1):13–6 (Eng. Abstr.) **(Spa)**
[Occupational asthma. Occupational environment may be the cause of asthma debut in adults] Torén K, et al. **Lakartidningen** 1997 Mar 12;94(11):949–52 **(Swe)**

GENETICS

Genetic factors in asthma. Cookson W. **Adv Exp Med Biol** 1996;409:55–60 (29 ref.)
Sensitization to neumoallergens influence in mothers of asthmatic children. Sánchez Palacios A, et al. **Allergol Immunopathol (Madr)** 1996 Jan–Feb;24(1):7–12
Susceptibility genes for allergy and asthma. Ruffilli A, et al. **Allergy** 1997 Mar;52(3):256–73 (176 ref.)
Bronchial mucosal expression of the genes encoding chemokines RANTES and MCP-3 in symptomatic atopic and nonatopic asthmatics: relationship to the eosinophil-active cytokines interleukin (IL)-5, granulocyte macrophage-colony-stimulating factor, and IL-3. Humbert M, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):1–8
Susceptibility loci regulating total serum IgE levels, bronchial hyperresponsiveness, and clinical asthma map to chromosome 5q. Amelung PJ, et al. **Chest** 1997 Jun;111(6 Suppl):77S–78S
Association of the Gln 27 beta 2-adrenoceptor polymorphism and IgE variability in asthmatic families. Dewar J, et al. **Chest** 1997 Jun;111(6 Suppl):78S–79S
Genetics of atopy and asthma. The rationale behind promoter-based can.didate gene studies. Rosenwasser LJ. **Chest** 1997 Jun;111(6 Suppl):74S–77S (20 ref.)
Genetic susceptibility to asthma in a changing environment. Bleecker ER, et al. **Ciba Found Symp** 1997;206:90–9; discussion 99–105, 106–10 (67 ref.)
Aspirin-induced asthma and HLA-DRB1 and HLA-DPB1 genotypes. Dekker JW, et al. **Clin Exp Allergy** 1997 May; 27(5):574–7
Evidence for and against chromosome 5q as a region of interest in asthma and atopy [editorial] Wilkinson J, et al. **Clin Exp Allergy** 1996 Aug;26(8):861–4
Airway responsiveness and atopy in families of patients with asthma. Laprise C, et al. **Clin Invest Med** 1996 Dec; 19(6):461–9
Pattern of usage and somatic hypermutation in the V(H)5 gene segments of a patient with asthma: implications for IgE. Snow RE, et al. **Eur J Immunol** 1997 Jan;27(1):162–70
Regressive logistic modeling of familial aggregation for asthma in 7,394 population-based nuclear families. Jenkins MA, et al. **Genet Epidemiol** 1997;14(3):317–32
Linkage of asthma and total serum IgE concentration to markers on chromosome 12q: evidence from Afro-Caribbean and Caucasian populations. Barnes KC, et al. **Genomics** 1996 Oct 1;37(1):41–50
Genetic and environmental factors associated with asthma. Bener A, et al. **Hum Biol** 1996 Jun;68(3):405–14
Tumour necrosis factor haplotypes and asthma. Moffatt MF, et al. **Hum Mol Genet** 1997 Apr;6(4):551–4
Association between atopic asthma and a coding variant of Fc epsilon RI beta in a Japanese population. Shirakawa T, et al. **Hum Mol Genet** 1996 Dec;5(12):2068
Association between atopic asthma and a coding variant of Fc epsilon RI beta in a Japanese population [published erratum appears in Hum Mol Genet 1996 Dec;5(12):2068] Shirakawa T, et al. **Hum Mol Genet** 1996 Aug;5(8):1129–30
Genetics of atopy and asthma: promoter-based candidate gene studies for IL-4. Rosenwasser LJ. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):61–4 (19 ref.)
High frequency of a deletion polymorphism of the angiotensin-converting enzyme gene in asthma. Benessiano J, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):53–7
T-cell receptor V beta gene segment expression in diisocyanate-induced occupational asthma. Bernstein JA, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):245–50
The glutamine 27 beta2-adrenoceptor polymorphism is associated with elevated IgE levels in asthmatic families. Dewar JC, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):261–5
Polymorphism in transporter antigen peptides gene (TAP1) associated with atopy in Tunisians. Ismaïl A, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):216–23
Nucleotide sequence analysis of a complementary DNA coding for a Blomia tropicalis allergen. Puerta L, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):932–7
Naturally occurring mutations in the human 5-lipoxygenase gene promoter that modify transcription factor binding and reporter gene transcription. In KH, et al. **J Clin Invest** 1997 Mar 1;99(5):1130–7
Association between serotonin type 2 receptor (HTR2) and bronchial asthma in humans [letter] Mao HQ, et al. **J Med Genet** 1996 Jun;33(6):525
Investigation of an interleukin-4 promoter polymorphism for associations with asthma and atopy. Walley AJ, et al. **J Med Genet** 1996 Aug;33(8):689–92
Candidate locus approach for studying the genetics of asthma and atopy. Thomas NS, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):296–302
Polymorphism at the tumour necrosis factor locus and asthma. Campbell DA, et al. **Monogr Allergy** 1996; 33:125–37 (58 ref.)
Regulation of cytokine genes implicated in asthma and atopy. Cousins DJ, et al. **Monogr Allergy** 1996;33:138–52 (86 ref.)
Beta 2-adrenoceptor polymorphisms and asthma. Hall IP. **Monogr Allergy** 1996;33:153–67 (42 ref.)
Candidate loci and random marker approaches to studying the genetics of asthma. Wilkinson J, et al. **Monogr Allergy** 1996;33:109–24 (66 ref.)
A genome-wide search for asthma susceptibility loci in ethnically diverse populations. The Collaborative Study on the Genetics of Asthma (CSGA). **Nat Genet** 1997 Apr; 15(4):389–92

Asthma genetics: waiting to exhale [news] Holgate ST. **Nat Genet** 1997 Mar;15(3):227–9 (31 ref.)
T-lymphocytes regulate genetically determined airway hyperresponsiveness in mice [see comments] De Sanctis GT, et al. **Nat Med** 1997 Apr;3(4):460–2. Comment in: Nat Med 1997 Apr;3(4):382–3.
Genetic studies of cystic fibrosis and atopic asthma: current approaches and future aspects. Barnes KC. **Pediatr Allergy Immunol** 1996;7(9 Suppl):74–81 (87 ref.)
Neonatal chronic lung disease and a family history of asthma [editorial] Chan KN, et al. **Pediatr Pulmonol** 1995 Nov; 20(5):273–5
Bronchopulmonary dysplasia and family history of asthma [editorial; comment] Nickerson B. **Pediatr Pulmonol** 1995 Nov;20(5):276. Comment on: Pediatr Pulmonol 1995 Nov;20(5):277–83.
A scientific result without the science [news] Vogel G. **Science** 1997 May 30;276(5317):1327
Atopy, airway responsiveness, and genes. Boguniewicz M, et al. **Thorax** 1996 Aug;51 Suppl 2:S55–9 (28 ref.)
Beta 2 adrenoceptor polymorphisms [letter; comment] Drazen JM, et al. **Thorax** 1996 Nov;51(11):1168. Comment on: Thorax 1996 Apr;51(4):351–3.
[The epidemiology and genetics of asthma. II. Genetic aspects of the epidemiology of asthma and atopy] Demoly P, et al. **Rev Mal Respir** 1996 Dec;13(6):547–53 (61 ref.) (Eng. Abstr.) **(Fre)**
[The epidemiology and genetics of asthma. I. Descriptive epidemiology and analysis of environmental factors] Jaffuel D, et al. **Rev Mal Respir** 1996 Oct;13(5):455–65 (105 ref.) (Eng. Abstr.) **(Fre)**
[Genetic analysis of bronchial asthma in Japanese population—Fc epsilon RI beta gene and beta 2 adrenergic receptor gene] Hizawa N, et al. **Nippon Rinsho** 1996 Feb; 54(2):539–43 (23 ref.) (Eng. Abstr.) **(Jpn)**

HISTORY

Asthma among the famous. A continuing series. Cohen SG. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):365–79
Asthma among the famous. Lemuel Shaw (1781–1860), American jurist. Cohen SG. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):366–9
Asthma among the famous. Martin Van Buren (1792–1862), eighth president of the United States. Cohen SG. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):370–2
Asthma among the famous. Daniel Webster (1782–1852), American lawyer, U.S. Senator, and statesman. Cohen SG. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):373–6
Asthma among the famous. Giacomo Leopardi (1798–1837), Italian poet and author. Cohen SG. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):377–9
Asthma among the famous. Robert Bree (1759–1839). Cohen SG. **Allergy Asthma Proc** 1996 May–Jun;17(3):167–9
Asthma among the famous. Thomas W. King (1809–1847). Cohen SG. **Allergy Asthma Proc** 1996 May–Jun; 17(3):169–71
Asthma among the famous. William P. Kirkman (1827–1852). Cohen SG. **Allergy Asthma Proc** 1996 May–Jun;17(3):171–2
Asthma among the famous. William E. Steavenson (1850–1891). Cohen SG. **Allergy Asthma Proc** 1996 May–Jun;17(3):172
Asthma among the famous. John Millar (1733–1805). Cohen SG. **Allergy Asthma Proc** 1996 May–Jun;17(3):162–3
Asthma among the famous. Thomas Fowler (1736–1801). Cohen SG. **Allergy Asthma Proc** 1996 May–Jun;17(3):163–5
Asthma among the famous. James Anderson (1738–1809). Cohen SG. **Allergy Asthma Proc** 1996 May–Jun;17(3):165–7
John Paul Jones (1747–1792), American Naval Officer. Cohen SG. **Allergy Asthma Proc** 1996 Jul–Aug;17(4):222–3
William IV (1765–1837), King of Great Britain, Ireland and Hanover. Cohen SG. **Allergy Asthma Proc** 1996 Jul–Aug; 17(4):224–5
Ludwig van Beethoven (1770–1827), German composer. Cohen SG, et al. **Allergy Asthma Proc** 1996 Jul–Aug; 17(4):226–8
Asthma among the famous. Charles Dickens (1812–1870), English author. Cohen SG. **Allergy Asthma Proc** 1997 Jul–Aug;18(4):263–8
Asthma among the famous. Nathan Tucker (1838–1920), American physician. Cohen SG. **Allergy Asthma Proc** 1997 Jul–Aug;18(4):252–5
Asthma among the famous. Henry Hyde Salter (1823–1871), British physician. Cohen SG. **Allergy Asthma Proc** 1997 Jul–Aug;18(4):256–8
Asthma among the famous. Morrill Wyman (1812–1903), American physician. Cohen SG. **Allergy Asthma Proc** 1997 Jul–Aug;18(4):259–62
Tobias G. Smollett (1721–1771), British physician and author. Cohen SG. **Allergy Asthma Proc** 1996 Mar–Apr;17(2):104–7
Edmund Burke (1729–1797), Irish/British statesman and political philosopher. Cohen SG. **Allergy Asthma Proc** 1996 Mar–Apr;17(2):108–12
Asthma among the famous. Brazilian literary figures. Machodo de Assis (1839–1908). Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):108–9
Asthma among the famous. Brazilian literary figures. Augusto dos Anjos (1884–1914). Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):110–1
Asthma among the famous. Brazilian literary figures. Graciliano Ramos (1892–1953). Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):112–3
Asthma among the famous. Brazilian literary figures. Otto Lara Resende (1922–1992). Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):114–5
Asthma among the famous. Antonio Guzman Blanco (1829–1899). Eleventh president of Venezuela. Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):116–8
Asthma among the famous. Juan Vicente Gomez (1857–1935). Eighteenth president of Venezuela. Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):119–21
Asthma among the famous. Gabriel Turbay (1901–1948). Columbian physician and diplomat. Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):122–7
Asthma among the famous. Ernesto "Che" Guevara (1928–1967). Argentinean physician and revolutionary. Cohen SG. **Allergy Asthma Proc** 1997 Mar–Apr; 18(2):128–32
Asthma among the famous. Tseng Kuo–Fan (1811–1872) Chinese Scholar, statesman, and general. Cohen SG, et al. **Allergy Asthma Proc** 1997 May–Jun;18(3):182–6
Asthma among the famous. Austin Flint (1812–1886) American physician. Cohen SG. **Allergy Asthma Proc** 1997 May–Jun;18(3):187–90
Asthma among the famous. Henry Ward Beecher (1813–1887) American churchman and orator. Cohen SG. **Allergy Asthma Proc** 1997 May–Jun;18(3):191–5
Asthma among the famous. Charles H. Blackley (1820–1900) British physician. Cohen SG. **Allergy Asthma Proc** 1997 May–Jun;18(3):196–8
Asthma among the famous. Armand Trousseau (1801–1867), French physician. Cohen SG. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):40–2
Asthma among the famous. Benjamin Disraeli (1804–1881), British statesman and author. Cohen SG. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):43–9
Asthma among the famous. Adb el–Kader (1808–1883), founder of the Algerian state. Cohen SG. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):50–2
Asthma among the famous. Oliver Wendell Holmes (1809–1894), American physician, author, and philosopher. Cohen SG. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):53–6
Asthma among the famous. Sydney Smith (1771–1845), British clergyman. Cohen SG. **Allergy Asthma Proc** 1996 Sep–Oct;17(5):298–300
Asthma among the famous. Augustus Frederick (1773–1843), British Duke of Sussex. Cohen SG. **Allergy Asthma Proc** 1996 Sep–Oct;17(5):301–3
Asthma among the famous. John Bostock (1773–1846), British physician and medicinal chemist. Cohen SG. **Allergy Asthma Proc** 1996 Sep–Oct;17(5):304–5
Asthma among the famous. René Theophile–Hyacinthe Laënnec (1781–1826), French physician. Cohen SG. **Allergy Asthma Proc** 1996 Sep–Oct;17(5):306–9

IMMUNOLOGY

Use of recombinant group 5 allergens to investigate IgE–mediated sensitization to Blomia tropicalis and Dermatophagoides pteronyssinus. Arruda LK, et al. **Adv Exp Med Biol** 1996;409:173–6
Structural and antigenic studies of cockroach allergens and their relevance to asthma. Chapman MD, et al. **Adv Exp Med Biol** 1996;409:95–101 (29 ref.)
Automated serology with recombinant allergens. A feasibility study. Crameri R, et al. **Adv Exp Med Biol** 1996;409:111–6
Identification of differentially expressed genes in CD19+ve B lymphocytes in allergic asthma. Harun RB, et al. **Adv Exp Med Biol** 1996;409:375–80
A major allergen involved in IgE mediated cockroach hypersensitivity is a 90 kD protein with multiple IgE binding domains. Helm RM, et al. **Adv Exp Med Biol** 1996; 409:267–8
Enhanced production and gene expression of IL–5 in bronchial asthma. Possible management of atopic diseases with IL–5 specific gene transcription inhibitor. Mori A, et al. **Adv Exp Med Biol** 1996;409:439–50 (36 ref.)
Molecular cloning and immunological characterization of the group 7 allergens of house dust mites. Shen HD, et al. **Adv Exp Med Biol** 1996;409:241–2
Role of interleukin–4 in the development of allergic airway inflammation and airway hyperresponsiveness. Wills–Karp M, et al. **Adv Exp Med Biol** 1996;409:343–7 (37 ref.)
Effect of preseasonal enzyme potentiated desensitisation (EPD) on plasma–IL–6 and IL–10 of grass pollen–sensitive asthmatic children. Ippoliti F, et al. **Allerg Immunol (Paris)** 1997 May;29(5):120, 123–5
Nasal response to allergen challenge in patients with immediate asthmatic reaction. Palczynski C, et al. **Allergol Immunopathol (Madr)** 1996 Jul–Aug;24(4):163–8
Nasal response to allergen challenge in patients with immediate asthmatic reaction. Palczynski C, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec;24(6):237–42
Bronchial epithelial cells in asthma. Campbell AM. **Allergy** 1997 May;52(5):483–9 (68 ref.)
Leukotriene E4 plasma levels in adult asthmatic patients with variable disease severity. Chavis C, et al. **Allergy** 1997 May; 52(5):589–92
Purine derivatives in the study of allergic inflammation in respiratory diseases. Crimi N, et al. **Allergy** 1997;52(34 Suppl):48–54 (70 ref.)
Clinical and immunologic evaluation of workers exposed to glutaraldehyde. Curran AD, et al. **Allergy** 1996 Nov; 51(11):826–32
Dust–mite–allergen concentrations in asthmatics' bedrooms in the Quad Cities (Illinois, USA) after the Mississippi River floods of 1993. Curtis L, et al. **Allergy** 1997 Jun;52(6):642–9
The degree of natural allergen exposure modifies eosinophil activity markers in the circulation of patients with mild asthma. Fernvik E, et al. **Allergy** 1996 Oct;51(10):697–705
Sensitization to Dermatophagoides siboney, Blomia tropicalis, and other domestic mites in asthmatic patients. Ferrándiz R, et al. **Allergy** 1996 Jul;51(7):501–5
Increased allergen–specific Th2 responses in vitro in atopic subjects receiving subclinical allergen challenge. Gabrielsson S, et al. **Allergy** 1997 Aug;52(8):860–5
A comparison of three standard methods of identifying mast cells in endobronchial biopsies in normal and asthmatic subjects. Heaney LG, et al. **Allergy** 1997 Aug;52(8):836–43
Studies of bronchial asthma induced by chironomid midges (Diptera) around a hypereutrophic lake in Japan. Hirabayashi K, et al. **Allergy** 1997 Feb;52(2):188–95
Diagnostic significance of in vitro T–cell proliferative responses to house–dust mite Der p 1 in children with dust–mite allergy. Horneff G, et al. **Allergy** 1996 Nov; 51(11):842–6
Occupational asthma to amaryllis. Jansen AP, et al. **Allergy** 1996 Nov;51(11):847–9
Occupational asthma caused by mink urine. Jiménez Gómez I, et al. **Allergy** 1996 May;51(5):364–5
A preceding airway reaction to one allergen may lead to priming of the airway responses to another allergen. Koh YY, et al. **Allergy** 1997 Mar;52(3):284–92
IgE antibodies against midge and moth found in Japanese asthmatic subjects and comparison of allergenicity between these insects. Komase Y, et al. **Allergy** 1997 Jan;52(1):75–81
Cross–reactivity of Olea europaea with other Oleaceae species in allergic rhinitis and bronchial asthma. Pajarón MJ, et al. **Allergy** 1997 Aug;52(8):829–35
Serum IgE levels, atopy, and asthma in young adults: results from a longitudinal cohort study. Peat JK, et al. **Allergy** 1996 Nov;51(11):804–10
Exposure chamber for allergen challenge. A placebo–controlled, double–blind trial in house–dust–mite asthma. Rønborg SM, et al. **Allergy** 1997 Aug;52(8):821–8
The link between the nose and lung, perennial rhinitis and asthma—is it the same disease? Rowe–Jones JM. **Allergy** 1997;52(36 Suppl):20–8 (124 ref.)
Allergy to cockroaches in patients with asthma and rhinitis in an urban area (Madrid). Sastre J, et al. **Allergy** 1996 Aug;51(8):582–6
Serum eosinophil cationic protein (ECP) as a marker of disease activity and treatment efficacy in seasonal asthma. Vatrella A, et al. **Allergy** 1996 Aug;51(8):547–55
Allergic bronchial asthma: eosinophil chemotaxis and antihistaminic drug modulation. Ventura MT, et al. **Allergy** 1996 Nov;51(11):777–81
An update on the immunopathogenesis of asthma as an inflammatory disease enhanced by environmental pollutants. Casillas AM, et al. **Allergy Asthma Proc** 1997 Jul–Aug;18(4):227–33 (34 ref.)
Distribution of Dermatophagoides spp., D. farinae and D. pteronyssinus, antigen in homes of patients with asthma in eastern Massachusetts. Hannaway PJ, et al. **Allergy Asthma Proc** 1997 May–Jun;18(3):177–80
The perennial pattern of clinical symptoms in children monosensitized to Olea europaea pollen allergens in comparison with subjects with Parietaria and Gramineae pollinosis. Liccardi G, et al. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):99–105
Does allergen immunotherapy have a role in the treatment of bronchial asthma? Nelson HS. **Allergy Asthma Proc** 1997 May–Jun;18(3):157–62 (51 ref.)
T cell activation in a murine model of asthma. Krinzman SJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):L476–83
Myofibroblast involvement in the allergen–induced late response in mild atopic asthma. Gizycki MJ, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):664–73
Asthma: does IL–5 have a more provocative role? [comment] Lee NA, et al. **Am J Respir Cell Mol Biol** 1997 May; 16(5):497–500. Comment on: Am J Respir Cell Mol Biol 1997 May;16(5):510–20.
Allergen–induced cytokine production in atopic disease and its relationship to disease severity. Leonard C, et al. **Am J Respir Cell Mol Biol** 1997 Sep;17(3):368–75
Transforming growth factor beta 1 (TGF beta 1) gene expression by eosinophils in asthmatic airway inflammation. Ohno I, et al. **Am J Respir Cell Mol Biol** 1996 Sep; 15(3):404–9
Infiltration of eosinophils into the asthmatic airways caused by interleukin 5. Shi H, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):220–4
Murine CTLA4–IgG treatment inhibits airway eosinophilia and hyperresponsiveness and attenuates IgE upregulation in a murine model of allergic asthma. Van Oosterhout AJ, et al. **Am J Respir Cell Mol Biol** 1997 Sep;17(3):386–92
Sensitization to Blomia tropicalis in patients with asthma and identification of allergen Blo t 5. Arruda LK, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):343–50
Inhibitory effects of an anti–IgE antibody E25 on allergen–induced early asthmatic response [see comments] Boulet LP, et al. **Am J Respir Crit Care Med** 1997 Jun; 155(6):1835–40. Comment in: Am J Respir Crit Care Med 1997 Jun;155(6):1825–7.
Alternaria as a major allergen for asthma in children raised in a desert environment. Halonen M, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1356–61
The immediate and late allergic response to segmental

bronchopulmonary provocation in asthma. Jarjour NN, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1515–21

How important is IgE–mediated reaction in childhood asthma? [letter; comment] Kondo S, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):769–70. Comment on: Am J Respir Crit Care Med 1995 May;151(5):1388–92.

Sensitization to cat allergen is associated with asthma in older men and predicts new–onset airway hyperresponsiveness. The Normative Aging Study. Litonjua AA, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):23–7

Seasonal variations in house dust mite influence the circadian peak expiratory flow amplitude. Meijer GG, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):881–4

Transforming growth factor–beta 1 in asthma. Measurement in bronchoalveolar lavage fluid. Redington AE, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):642–7

Combined antagonism of leukotrienes and histamine produces predominant inhibition of allergen–induced early and late phase airway obstruction in asthmatics. Roquet A, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1856–63

Diesel exhaust particles enhance antigen–induced airway inflammation and local cytokine expression in mice. Takano H, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):36–42

Seasonal comparison of cytokine profiles in atopic asthmatics and atopic non–asthmatics. Tang C, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1615–22

Phenotypic analysis of alveolar macrophages and monocytes in allergic airway inflammation. I. Evidence for activation of alveolar macrophages, but not peripheral blood monocytes, in subjects with allergic rhinitis and asthma. Viksman MY, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):858–63

Continuous avoidance measures with or without acaricide in dust mite–allergic asthmatic children. Bahir A, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):506–12

Inhibitory effects of BAY x 7195, a CYS leukotriene 1 receptor antagonist, on allergen–induced asthmatic responses. Boulet LP, et al. **Ann Allergy Asthma Immunol** 1997 Aug;79(2):155–61

Identification of IgE–binding components in occupational asthma caused by corn dust. Park HS, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):75–9

New occupational allergen in a pharmaceutical industry: serratial peptidase and lysozyme chloride. Park HS, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):225–9

Immune and clinical impact of Lactobacillus acidophilus on asthma. Wheeler JG, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):229–33

Role of eosinophil mobilization and activation in experimental airway inflammation and bronchopulmonary hyperreactivity. Pretolani M, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:72–81 (49 ref.)

House dust mite allergens (Der p I and Der p V) within domestic environments of atopic and control children. Li CS, et al. **Arch Environ Health** 1997 May–Jun;52(3):208–12

Cytokine mRNA profiles of normal and asthmatic peripheral blood cells and endobronchial biopsies. Gelder CM, et al. **Biochem Soc Trans** 1996 May;24(2):315S

T cell receptor repertoire in peripheral blood and bronchial biopsies from normal and asthmatic subjects. Gelder CM, et al. **Biochem Soc Trans** 1996 May;24(2):316S

Two distinct pathways of interleukin–5 synthesis in allergen–specific human T–cell clones are suppressed by glucocorticoids. Mori A, et al. **Blood** 1997 Apr 15; 89(8):2891–900

Allergen avoidance. Custovic A, et al. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):409–12 (26 ref.)

Academic examinations significantly impact immune responses, but not lung function, in healthy and well–managed asthmatic adolescents. Kang DH, et al. **Brain Behav Immun** 1996 Jun;10(2):164–81

Antigen stimulation of human pulmonary smooth muscle: an in vitro model of inflammation. Gorenne I, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):239–44

Specific immunoglobulins to soybean hull allergens in soybean asthma. Codina RM, et al. **Chest** 1997 Jan; 111(1):75–80

Asthma: a dynamic disease of inflammation and repair. Holgate ST. **Ciba Found Symp** 1997;206:5–28; discussion 28–34, 106–10 (110 ref.)

Allergen recognition in the origin of asthma. Holt PG, et al. **Ciba Found Symp** 1997;206:35–49; discussion 49–55, 106–10 (53 ref.)

T cells as orchestrators of the asthmatic response. Kay AB. **Ciba Found Symp** 1997;206:56–67; discussion 67–70, 106–10 (50 ref.)

The structural and functional consequences of chronic allergic inflammation of the airways. Paré PD, et al. **Ciba Found Symp** 1997;206:71–86; discussion 86–9, 106–10 (67 ref.)

The role of domestic allergens. Platts–Mills TA, et al. **Ciba Found Symp** 1997;206:173–85; discussion 185–9 (52 ref.)

Prenatal origins of asthma and allergy. Warner JA, et al. **Ciba Found Symp** 1997;206:220–8; discussion 228–32 (48 ref.)

Detection of transforming growth factor–beta in sputum from patients with bronchial asthma by eosinophil survival assay and enzyme–linked immunosorbent assay. Adachi T, et al. **Clin Exp Allergy** 1996 May;26(5):557–62

Cell adhesion molecules and asthma. Bloemen PG, et al. **Clin Exp Allergy** 1997 Feb;27(2):128–41 (164 ref.)

The role of leukotrienes in asthma and allergic rhinitis. Busse WW. **Clin Exp Allergy** 1996 Aug;26(8):868–79 (75 ref.)

The respiratory effects of reduction of mite allergen in the bedrooms of asthmatic children--a double–blind controlled trial. Carswell F, et al. **Clin Exp Allergy** 1996 Apr; 26(4):386–96

Diminution of T cells with gamma delta receptor in the peripheral blood of allergic asthmatic individuals. Chen KS, et al. **Clin Exp Allergy** 1996 Mar;26(3):295–302

Mite allergy is associated with a specific profile of IgG epitopes recognized on antigen p1 of Dermatophagoides pteronyssinus. Duchateau J, et al. **Clin Exp Allergy** 1997 Mar;27(3):296–305

Asthma, bronchial hyperreactivity and mediator release in children with birch pollinosis. ECP and EPX levels are not related to bronchial hyperreactivity. Ferdousi HA, et al. **Clin Exp Allergy** 1997 May;27(5):530–9

Influence of endogenous cortisol on eosinophil function in sensitized pigs: direct measurements of eosinophil peroxidase. Fornhem C, et al. **Clin Exp Allergy** 1996 Apr; 26(4):469–78

Major grass pollen allergen Lol p 1 binds to diesel exhaust particles: implications for asthma and air pollution. Knox RB, et al. **Clin Exp Allergy** 1997 Mar;27(3):246–51

The Th2 cell in asthma: initial expectations yet to be realised. Krug N, et al. **Clin Exp Allergy** 1997 Feb;27(2):142–50 (82 ref.)

Effect of surfactant inhalation on allergic bronchoconstriction in guinea pigs. Kurashima K, et al. **Clin Exp Allergy** 1997 Mar;27(3):337–42

Mechanisms of occupational asthma. Maestrelli P, et al. **Clin Exp Allergy** 1997 May;27 Suppl 1:47–54 (83 ref.)

Altered compartmentalization of transforming growth factor–beta in asthmatic airways. Magnan A, et al. **Clin Exp Allergy** 1997 Apr;27(4):389–95

Detection of snow–crab antigens by air sampling of a snow–crab production plant. Malo JL, et al. **Clin Exp Allergy** 1997 Jan;27(1):75–8

Correlation between IgA antibody and eosinophil cationic protein levels in induced sputum from asthmatic patients. Nahm DH, et al. **Clin Exp Allergy** 1997 Jun;27(6):676–81

House dust mite immunotherapy results in a decrease in Der p 2–specific IFN–gamma and IL–4 expression by circulating T lymphocytes. O'Brien RM, et al. **Clin Exp Allergy** 1997 Jan;27(1):46–51

Comparison of basophil histamine release, eosinophil cationic protein and non–specific airway responsiveness between mite–sensitive asthmatic and non–asthmatic children and non–allergic controls. Takeda K, et al. **Clin Exp Allergy** 1996 Aug;26(8):918–25

Identification of neutrophil chemotactic factors in bronchoalveolar lavage fluid of asthmatic patients. Teran LM, et al. **Clin Exp Allergy** 1997 Apr;27(4):396–405

Immune reactivity of cow–asthmatic dairy farmers to the major allergen of cow (BDA20) and to other cow–derived proteins. The use of purified BDA20 increases the performance of diagnostic tests in respiratory cow allergy. Virtanen T, et al. **Clin Exp Allergy** 1996 Feb;26(2):188–96

The interaction of tumour necrosis factor alpha and endothelin–1 in pathogenetic models of asthma. Xu J, et al. **Clin Exp Allergy** 1997 May;27(5):568–73

Release of transforming growth factor–beta (TGF–beta) and fibronectin by alveolar macrophages in airway diseases. Vignola AM, et al. **Clin Exp Immunol** 1996 Oct; 106(1):114–9

Therapeutic effects of preferential induction of mite–specific T helper 0 clones. Yamashita N, et al. **Clin Exp Immunol** 1997 Aug;109(2):332–41

Elevation of serum soluble tumour necrosis factor (TNF) receptor and IL–1 receptor antagonist levels in bronchial asthma. Yoshida S, et al. **Clin Exp Immunol** 1996 Oct; 106(1):73–8

Characterization of the antigen–presenting cell and T cell requirements for induction of pulmonary eosinophilia in a murine model of asthma. Lambert LE, et al. **Clin Immunol Immunopathol** 1996 Dec;81(3):307–11

New developments in the immunology of asthma, with a focus on mechanisms and treatment. Bousquet J, et al. **Curr Opin Pulm Med** 1997 Jan;3(1):42–50 (119 ref.)

Relaxin counteracts asthma–like reaction induced by inhaled antigen in sensitized guinea pigs. Bani D, et al. **Endocrinology** 1997 May;138(5):1909–15

Bronchial and skin reactivity in asthmatic patients with and without atopic dermatitis. Brinkman L, et al. **Eur Respir J** 1997 May;10(5):1033–40

Priming of circulating human eosinophils following late response to allergen challenge [see comments] Evans DJ, et al. **Eur Respir J** 1996 Apr;9(4):703–8. Comment in: Eur Respir J 1997 Jan;10(1):251–2.

Bronchial gamma delta T–lymphocytes and expression of heat shock proteins in mild asthma. Fajac I, et al. **Eur Respir J** 1997 Mar;10(3):633–8

Priming of circulating human eosinophils following late response to allergen challenge [letter; comment] Koenderman L. **Eur Respir J** 1997 Jan;10(1):251–2. Comment on: Eur Respir J 1996 Apr;9(4):703–8.

Allergic and nonallergic interactions between house dust mite allergens and airway mucosa. Roche N, et al. **Eur Respir J** 1997 Mar;10(3):719–26 (83 ref.)

Total serum IgE is associated with asthma independently of specific IgE levels. The Spanish Group of the European Study of Asthma. Sunyer J, et al. **Eur Respir J** 1996 Sep; 9(9):1880–4

Immunopathology of fatal soybean dust–induced asthma. Synek M, et al. **Eur Respir J** 1996 Jan;9(1):54–7

Higher asthma occurrence in an urban than a suburban area: role of house dust mite skin allergy. Wieringa MH, et al. **Eur Respir J** 1997 Jul;10(7):1460–6

Immunoregulation of Asthma II. Proceedings of a symposium. Amsterdam, 23–24 June 1994. **Eur Respir J Suppl** 1996 Aug;22:54s–159s

Immunomodulation as asthma therapy: where do we stand? Barnes PJ. **Eur Respir J Suppl** 1996 Aug;22:154s–159s (48 ref.)

Characteristics of airway eosinophils. Busse WW, et al. **Eur Respir J Suppl** 1996 Aug;22:132s–135s (10 ref.)

T–cell/eosinophil interactions in the induction of asthma. Corrigan CJ, et al. **Eur Respir J Suppl** 1996 Aug;22:72s–78s (79 ref.)

The role of basophils in allergic disease. Knol EF, et al. **Eur Respir J Suppl** 1996 Aug;22:126s–131s (68 ref.)

Cytokine production by T–cell clones from bronchoalveolar lavage fluid of patients with asthma and healthy subjects. Krouwels FH, et al. **Eur Respir J Suppl** 1996 Aug; 22:95s–103s

Immunoregulation of asthma. II. Introduction. Raaijmakers JA, et al. **Eur Respir J Suppl** 1996 Aug;22:54s–57s (43 ref.)

The effect of salmeterol and nimesulide on chemotaxis and synthesis of PAF and LTC4 by human eosinophils. Tool AT, et al. **Eur Respir J Suppl** 1996 Aug;22:141s–145s

Molecular mediators of asthma: current insights. Krishna MT, et al. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):115–9, 124, 126 passim (0 ref.)

Association between atopic asthma and a coding variant of Fc epsilon RI beta in a Japanese population [published erratum appears in Hum Mol Genet 1996 Dec;5(12):2068] Shirakawa T, et al. **Hum Mol Genet** 1996 Aug;5(8):1129–30

Macrophages and allergic lung disease. Poulter LW, et al. **Immunobiology** 1996 Oct;195(4–5):574–87

The role of Th2 type CD4+ T cells and Th2 type CD8+ T cells in asthma. Erb KJ, et al. **Immunol Cell Biol** 1996 Apr;74(2):206–8 (16 ref.)

The relevance of murine animal models to study the development of allergic bronchial asthma. Herz U, et al. **Immunol Cell Biol** 1996 Apr;74(2):209–17 (61 ref.)

Products from mast cells influence T lymphocyte proliferation and cytokine production--relevant to allergic asthma? de Pater–Huijsen FL, et al. **Immunol Lett** 1997 Jun 1;57(1–3):47–51 (33 ref.)

A comparison of the inhibitory effect of cromoline and nedocromil Na on histamine release from airway metachromatic cells and from peripheral basophils. Kivity S, et al. **Immunol Lett** 1996 Nov;53(2–3):147–51

Immunoglobulin response to intrapulmonary immunization of asthmatics. Schuyler M, et al. **Immunology** 1997 Jun; 91(2):167–75

Does inhalation allergy to pig exist? Larsen FO, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S65–6

Allergen–specific conjunctival challenge in asthma. An additional diagnostic tool to define sensitization. Ciprandi G, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):247–50

Circulating intracellular adhesion molecule–1 concentrations following bronchial provocation in atopic asthma. Gonokami Y, et al. **Int Arch Allergy Immunol** 1997 Apr; 112(4):386–91

Factors influencing immediate responses to intradermal allergen administration in patients with respiratory allergy. Hong CS, et al. **Int Arch Allergy Immunol** 1997 May–Jul; 113(1–3):360–2

Relationship between activated eosinophils of the bronchial mucosa and serum eosinophil cationic protein in atopic asthma. Hoshino M, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):59–64

Mite–induced allergic airway inflammation in guinea pigs. Hsiue TR, et al. **Int Arch Allergy Immunol** 1997 Mar; 112(3):295–302

Eosinophils and eosinophil–associated cytokines in allergic inflammation. Kay AB, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):196–9 (26 ref.)

Decrease in CD23+ B lymphocytes and clinical outcome in asthmatic patients receiving specific rush immunotherapy. Kljaic–Turkalj M, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):188–94

Role of IL–13 in CD4 T cell–dependent IgE production in atopy. Levy F, et al. **Int Arch Allergy Immunol** 1997 Jan; 112(1):49–58

Correlation between bronchoalveolar lavage (BAL) fluid cell lysate histamine content and BAL fluid eosinophil count in atopic and nonatopic asthmatics. Louis R, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):309–12

IgE responsiveness to Dermatophagoides farinae in asthma and atopic dermatitis. Noguchi E, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):489–94

A monoclonal antibody against very late activation antigen–4 inhibits eosinophil accumulation and late asthmatic response in a guinea pig model of asthma. Sagara H, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):287–94

Allergen bronchoprovocation of patients with mild allergic asthma after ozone exposure. Balf BA, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):563–72

T–cell receptor V beta gene segment expression in diisocyanate–induced occupational asthma. Bernstein JA, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):245–50

The distribution of total and specific serum IgE in the European Community Respiratory Health Survey. Burney P, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):314–22

Inhaled mite allergen [letter; comment] Carswell F. **J Allergy Clin Immunol** 1997 Feb;99(2):269–70. Comment on: J Allergy Clin Immunol 1996 May;97(5):1040–4.

In vitro T–lymphocyte response and house dust mite–induced bronchoconstriction. Chang JH, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):922–31

Depletion of circulating allergen–specific TH2 T lymphocytes after allergen exposure in asthma. Crimi E, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):788–97

A new murine model of pulmonary eosinophilic hypersensitivity: contribution to experimental asthma. de Siqueira AL, et al. **J Allergy Clin Immunol** 1997 Sep; 100(3):383–8

Recombinant Bet v 1, the major birch pollen allergen, induces hypersensitivity reactions equal to those induced by natural Bet v 1 in the airways of patients allergic to tree pollen. Godnic–Cvar J, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):354–9

The Melbourne house dust mite study: eliminating house dust mites in the domestic environment. Hill DJ, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):323–9

The immunopharmacology of mild asthma. Holgate ST. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S7–16; discussion S33–40 (64 ref.)

Immunotherapy suppresses the production of monocyte chemotactic and activating factor and augments the production of IL–8 in children with asthma. Hsieh KH, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):580–7

Late response to allergen is associated with increased concentrations of tumor necrosis factor–alpha and IL–5 in induced sputum. Keatings VM, et al. **J Allergy Clin Immunol** 1997 May;99(5):693–8

Induction of allergen–specific IL–2 responsiveness of lymphocytes after respiratory syncytial virus infection and prediction of onset of recurrent wheezing and bronchial asthma. Noma T, et al. **J Allergy Clin Immunol** 1996 Oct; 98(4):816–26

The role of mattress bases in the mite infestation of dwellings. Pauli G, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):261–3

Effects of glucocorticoids on lymphocyte activation in patients with steroid–sensitive and steroid–resistant asthma. Spahn JD, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1073–9

Increased levels of IL–4 in CD8+ T cells in atopic asthma. Stanciu LA, et al. **J Allergy Clin Immunol** 1997 Sep; 100(3):373–8

Failure of aged rats to accumulate eosinophils in allergic inflammation of the airway. Yagi T, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):38–47

Asthma as an inflammatory disease: implications for management. Dolen WK. **J Am Board Fam Pract** 1996 May–Jun;9(3):182–90 (75 ref.)

Role of animal danders as inhalant allergens in bronchial asthma in India. Gupta S, et al. **J Asthma** 1996;33(5):339–48

Stimulation of blood mononuclear cells of atopic children with the relevant allergen induces the release of eosinophil chemotaxins such as IL–3, IL–5, and GM–CSF. Lantero S, et al. **J Asthma** 1997;34(2):141–52

Distribution of IgE and IgG antibody levels against house dust mites in schoolchildren, and their relation with asthma. Shibasaki M, et al. **J Asthma** 1997;34(3):235–42

Anti–interleukin–4 inhibits immunoglobulin E production in a murine model of atopic asthma. Zhou CY, et al. **J Asthma** 1997;34(3):195–201

Nonatopic asthma: in vivo airway hyperreactivity adoptively transferred to naive mice by THY–1(+) and B220(+) antigen–specific cells that lack surface expression of CD3. Geba GP, et al. **J Clin Invest** 1997 Aug 1;100(3):629–38

Autocrine role of interleukin 1beta in altered responsiveness of atopic asthmatic sensitized airway smooth muscle. Hakonarson H, et al. **J Clin Invest** 1997 Jan 1;99(1):117–24

Allergic eosinophil–rich inflammation develops in lungs and airways of B cell–deficient mice. Korsgren M, et al. **J Exp Med** 1997 Mar 3;185(5):885–92

Reduced production of IL–12 and IL–12–dependent IFN–gamma release in patients with allergic asthma. van der Pouw Kraan TC, et al. **J Immunol** 1997 Jun 1; 158(11):5560–5

Expression of IL–4 and IL–5 mRNA and protein product by CD4+ and CD8+ T cells, eosinophils, and mast cells in bronchial biopsies obtained from atopic and nonatopic (intrinsic) asthmatics. Ying S, et al. **J Immunol** 1997 Apr 1;158(7):3539–44

Anti–Staphylococcus aureus, anti–Streptococcus pneumoniae and anti–Moraxella catarrhalis specific IgE in asthmatic children. Brarda OA, et al. **J Investig Allergol Clin Immunol** 1996 Jul–Aug;6(4):266–9

Skin prick tests with standardized extracts of inhalant allergens in 7099 adult patients with asthma or rhinitis: cross–sensitizations and relationships to age, sex, month of birth and year of testing. Eriksson NE, et al. **J Investig Allergol Clin Immunol** 1996 Jan–Feb;6(1):36–46

Why are nasal and bronchial symptoms mostly perennial in patients with monosensitization to Olea europaea pollen allergens? Liccardi G, et al. **J Investig Allergol Clin Immunol** 1996 Nov–Dec;6(6):371–7

Comparative study between skin prick tests and TOP–CAST allergen leukocyte stimulation in diagnosis of allergic status. Mędrala W, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):115–8

Quantitative skin prick tests and serum IgE antibodies in atopic asthmatics. Rosario NA, et al. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):40–5

C3–containing IgE immune complexes in asthmatic patients. Nahm DH, et al. **J Korean Med Sci** 1996 Jun;11(3):217–21

Isocyanate–induced occupational asthma: challenge and immunologic studies. Park HS, et al. **J Korean Med Sci** 1996 Aug;11(4):314–8

Allergen skin test reactivities among asthmatic Thai children. Kongpanichkul A, et al. **J Med Assoc Thai** 1997 Feb; 80(2):69–75

The eosinophil: new insights into its function in human health and disease [editorial] Wardlaw A. **J Pathol** 1996 Aug; 179(4):355–7

Cytokine production by cell cultures from bronchial subepithelial myofibroblasts. Zhang S, et al. **J Pathol** 1996 Sep;180(1):95–101

Humoral immunity in steroid–dependent children with asthma and hypogammaglobulinemia. Lack G, et al. **J Pediatr** 1996 Dec;129(6):898–903

Interleukin–5 production by peripheral blood mononuclear cells of asthmatic patients is suppressed by T–440: relation to phosphodiesterase inhibition. Kaminuma O, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):240–6

Bronchial and bronchoalveolar inflammation in single early and dual responders after allergen inhalation challenge. Silvestri M, et al. **Lung** 1997;175(4):277–85

Could parasitic infections protect aboriginal children against asthma and allergies? [letter] Prociv P. **Med J Aust** 1997 Apr 7;166(7):391–2

Tumor necrosis factor–alpha and interleukin–1 beta. Two possible mediators of allergic inflammation. Pellegrino M, et al. **Minerva Pediatr** 1996 Jul–Aug;48(7–8):309–12

Allergen–induced airways inflammation in asthma. Robinson DS. **Monaldi Arch Chest Dis** 1996 Dec;51(6):469–74 (81 ref.)

The role of cockroach allergy and exposure to cockroach allergen in causing morbidity among inner–city children with asthma [see comments] Rosenstreich DL, et al. **N Engl J Med** 1997 May 8;336(19):1356–63. Comment in: N Engl J Med 1997 May 8;336(19):1382–4.

T–lymphocytes regulate genetically determined airway hyperresponsiveness in mice [see comments] De Sanctis GT, et al. **Nat Med** 1997 Apr;3(4):460–2. Comment in: Nat Med 1997 Apr;3(4):382–3.

T lymphocytes: setting the tone of the airways [news; comment] Gelfand EW, et al. **Nat Med** 1997 Apr;3(4):382–3 . Comment on: Nat Med 1997 Apr;3(4):460–2.

Immune responses to final exams in healthy and asthmatic adolescents. Kang DH, et al. **Nurs Res** 1997 Jan–Feb; 46(1):12–9

Isolation of type 1 and type 2 cloned mite allergen–specific T cells from an asthmatic child. Chiang BL, et al. **Pediatr Allergy Immunol** 1996 Nov;7(4):193–8

Domestic fungal viable propagules and sensitization in children with IgE mediated allergic diseases. Dill I, et al. **Pediatr Allergy Immunol** 1996 Aug;7(3):151–5

Cockroach sensitivity in asthmatic Egyptian children. el–Gamal Y, et al. **Pediatr Allergy Immunol** 1995 Nov; 6(4):220–2

House dust mite exposure in asthmatic and healthy children: the difference is carpeting. Meijer GG, et al. **Pediatr Allergy Immunol** 1995 Nov;6(4):187–91

Eosinophils and basophilic cells in sputum and nasal smears taken from infants and young children during acute asthma. Nagayama Y, et al. **Pediatr Allergy Immunol** 1995 Nov; 6(4):204–8

Varicella vaccination for adolescents with asthma. Schaffner W. **Pediatr Infect Dis J** 1997 Jul;16(7):723

Inhaled glucocorticoid therapy of childhood asthma is associated with reduced peripheral blood T cell activation and 'Th2–type' cytokine mRNA expression. Gemou–Engesaeth V, et al. **Pediatrics** 1997 May; 99(5):695–703

Azelastine hydrochloride inhibits platelet activating factor–like activity in human eosinophils. Shindo K, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):217–21

Inhaled albuterol does not inhibit cellular influx or lung injury produced by segmental antigen challenge in humans. O'Connor J, et al. **Pulm Pharmacol** 1995 Dec;8(6):237–43

Adhesion molecules and the recruitment of eosinophils to the airways. Henricks PA, et al. **Res Immunol** 1997 Jan; 148(1):18–28 (116 ref.)

Inflammatory changes in proximal and peripheral airways of asthmatic patients. Oddera S, et al. **Respir Med** 1997 Jul;91(6):323–6 (29 ref.)

Asthmatic reactions after nasal allergen provocation. Baur X. **Respiration** 1996;63(2):84–7

Magnitude and determinants of short–term tachyphylaxis to methacholine in subjects with symptomatic or asymptomatic airway hyperresponsiveness and in normal controls. Laprise C, et al. **Respiration** 1996;63(5):304–8

Lymphocyte activation markers in peripheral blood before and after natural exposure to allergen in asthmatic patients. Majori M, et al. **Respiration** 1997;64(1):45–9

Leukotriene B4 and asthma [editorial; comment] Christie PE, et al. **Thorax** 1996 Dec;51(12):1171–3. Comment on: Thorax 1996 Dec;51(12):1178–84.

Eicosanoid mediator expression in mononuclear and polymorphonuclear cells in normal subjects and patients with atopic asthma and cystic fibrosis. Kuitert LM, et al. **Thorax** 1996 Dec;51(12):1223–8

The use of induced sputum to investigate airway inflammation [editorial] Pavord ID, et al. **Thorax** 1997 Jun; 52(6):498–501 (39 ref.)

Airway response of asthmatic subjects to inhaled allergen after exposure to pollutants. Rusznak C, et al. **Thorax** 1996 Nov;51(11):1105–8

Serology of respiratory viruses in relation to asthma and bronchial hyperresponsiveness. Björnsson E, et al. **Ups J Med Sci** 1996;101(2):159–68

[Glucocorticosteroids and ambroxol inhibit secretion of inflammatory cytokines in tracheobronchial epithelial cells: Possible role of the NF–kappa B transcription factor] Betz R. **Pneumologie** 1997 May;51(5):491–2 **(Ger)**

[Oral testing for sulfite asthma] Hein H, et al. **Pneumologie** 1996 Jun;50(6):394–8 (Eng. Abstr.) **(Ger)**

[Cell biology of bronchial asthma: interesting new methods. Intracellular determination of cytokines in T–cells and basic proteins in eosinophilic granulocytes using flow cytometry] Krug N, et al. **Pneumologie** 1997 Apr;51(4):381–5 (26 ref.) (Eng. Abstr.) **(Ger)**

[Autoantibodies in bronchial asthma] Fujimori K, et al. **Arerugi** 1996 Jul;45(7):655–9 (Eng. Abstr.) **(Jpn)**

[Measurement of proliferation of allergen–stimulated peripheral blood lymphocytes by flow cytometry] Kimura M, et al. **Arerugi** 1996 Oct;45(10):1119–26 (Eng. Abstr.) **(Jpn)**

[Enhanced lymphocyte proliferative response to house dust mite in the older but not in the younger asthmatic children] Kimura M, et al. **Arerugi** 1997 Apr;46(4):384–90 (Eng. Abstr.) **(Jpn)**

[Activation status of eosinophils in the bronchial mucosa in symptomatic and asymptomatic asthmatics] Sato M, et al. **Arerugi** 1997 Jan;46(1):16–25 (Eng. Abstr.) **(Jpn)**

[Anti–allergic effects of beta–adrenoceptor agonists in the clinical pharmacological studies] Horikoshi S, et al. **Nippon Rinsho** 1996 Nov;54(11):3068–72 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Anomalous reaction to adenosine of lymphocytes from patients with atopic bronchial asthma. Is it a link in pathogenesis or a compensatory reaction?] Poriadin GV, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):474–7 **(Rus)**

[Sensitization to industrial chemical allergens in bronchial asthma in children in environmental pollution] Dueva LA, et al. **Med Tr Prom Ekol** 1997;(2):41–5 (Eng. Abstr.) **(Rus)**

[Relation between asthma and atopy markers in children and young adults] Pereira Vega A, et al. **Arch Bronconeumol** 1997 Jun;33(6):272–7 (Eng. Abstr.) **(Spa)**

METABOLISM

Evaluation of pre– and posttreatment pulse oximetry in acute childhood asthma. Wright RO, et al. **Acad Emerg Med** 1997 Feb;4(2):114–7

Bronchial epithelial cells in asthma. Campbell AM. **Allergy** 1997 May;52(5):483–9 (68 ref.)

Purine derivatives in the study of allergic inflammation in respiratory diseases. Crimi N, et al. **Allergy** 1997;52(34 Suppl):48–54 (70 ref.)

Reduced asthma symptoms with n–3 fatty acid ingestion are related to 5–series leukotriene production. Broughton KS, et al. **Am J Clin Nutr** 1997 Apr;65(4):1011–7

Asthma and endotoxin: lipopolysaccharide–binding protein and soluble CD14 in bronchoalveolar compartment. Dubin W, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L736–44

Expression of laminins in the airways in various types of asthmatic patients: a morphometric study. Altraja A, et al. **Am J Respir Cell Mol Biol** 1996 Oct;15(4):482–8

Increased expression of interleukin–16 in bronchial mucosa of subjects with atopic asthma. Laberge S, et al. **Am J Respir Cell Mol Biol** 1997 Aug;17(2):193–202

Expression of CD44 isoforms is increased in the airway epithelium of asthmatic subjects. Lackie PM, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):14–22

Allergen–induced cytokine production in atopic disease and its relationship to disease severity. Leonard C, et al. **Am J Respir Cell Mol Biol** 1997 Sep;17(3):368–75

Expression of RANTES mRNA and protein in airways of patients with mild asthma. Berkman N, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1804–11

Phospholipase A2 and arachidonate increase in bronchoalveolar lavage fluid after inhaled antigen challenge in asthmatics. Bowton DL, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):421–5

Endothelin production and effects of endothelin antagonism during experimental airway inflammation. Finsnes F, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1404–12

Levels of amino acids and related compounds in bronchoalveolar lavage fluids of asthmatic patients. Hofford JM, et al. **Am J Respir Crit Care Med** 1997 Feb; 155(2):432–5

Granulocyte activation markers in induced sputum: comparison between chronic obstructive pulmonary disease, asthma, and normal subjects. Keatings VM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):449–53

Cell infiltration, ICAM–1 expression, and eosinophil chemotactic activity in asthmatic sputum. Louis R, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):466–72

Expression of IL–12 and IL–13 mRNA in asthma and their modulation in response to steroid therapy. Naseer T, et

al. **Am J Respir Crit Care Med** 1997 Mar;155(3):845–51

Allergen exposure decreases glucocorticoid receptor binding affinity and steroid responsiveness in atopic asthmatics. Nimmagadda SR, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):87–93

Sputum in severe exacerbations of asthma: kinetics of inflammatory indices after prednisone treatment. Pizzichini MM, et al. **Am J Respir Crit Care Med** 1997 May; 155(5):1501–8

Pulmonary and cardiac beta-adrenoceptor density in vivo in asthmatic subjects. Qing F, et al.
Am J Respir Crit Care Med 1997 Mar;155(3):1130–4

Systemic oxidative stress in asthma, COPD, and smokers. Rahman I, et al. **Am J Respir Crit Care Med** 1996 Oct; 154(4 Pt 1):1055–60

Free and complexed interleukin-8 in blood and bronchial mucosa in asthma. Shute JK, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):1877–83

Expression of interleukin-1 beta (IL-1beta) and interleukin-1 receptor antagonist (IL-1ra) on asthmatic bronchial epithelium. Sousa AR, et al.
Am J Respir Crit Care Med 1996 Oct;154(4 Pt 1):1061–6

Bronchial aspirin challenge causes specific eicosanoid response in aspirin-sensitive asthmatics. Szczeklik A, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1608–14

Membrane-bound and soluble alpha IL-5 receptor mRNA in the bronchial mucosa of atopic and nonatopic asthmatics. Yasruel Z, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1413–8

Inflammatory markers in childhood asthma. Kristjánsson S, et al. **Ann Med** 1996 Oct;28(5):395–9 (43 ref.)

The mast cell as a source of cytokines in asthma. Bradding P, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:272–81 (56 ref.)

Eosinophil-derived cytokines in allergic inflammation and asthma. Moqbel R. **Ann N Y Acad Sci** 1996 Oct 31; 796:209–17 (41 ref.)

Exhaled nitric oxide in paediatric asthma and cystic fibrosis. Lundberg JO, et al. **Arch Dis Child** 1996 Oct;75(4):323–6

A comparative population pharmacokinetic analysis for methylprednisolone following multiple dosing of two prodrugs in patients with acute asthma. Parker TJ, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):589–92

The influence of orally deposited budesonide on the systemic availability of budesonide after inhalation from a Turbuhaler. Pedersen S, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):211–4

Exhaled pentane levels in acute asthma. Olopade CO, et al. **Chest** 1997 Apr;111(4):862–5

Cell adhesion molecules and asthma. Bloemen PG, et al. **Clin Exp Allergy** 1997 Feb;27(2):128–41 (164 ref.)

Altered compartmentalization of transforming growth factor-beta in asthmatic airways. Magnan A, et al.
Clin Exp Allergy 1997 Apr;27(4):389–95

Airway function correlates with circulating eosinophil, but not mast cell, markers of inflammation in childhood asthma. Rao R, et al. **Clin Exp Allergy** 1996 Jul;26(7):789–93

Airway eosinophilia and expression of interleukin-5 protein in asthma and in exacerbations of chronic bronchitis [see comments] Saetta M, et al. **Clin Exp Allergy** 1996 Jul; 26(7):766–74. Comment in: Clin Exp Allergy 1996 Jul;26(7):735–7.

The measurement of reticular basement membrane and submucosal collagen in the asthmatic airway [see comments] Wilson JW, et al. **Clin Exp Allergy** 1997 Apr; 27(4):363–71. Comment in: Clin Exp Allergy 1997 Apr;27(4):351–3.

Oxygen radical production by blood eosinophils is reduced during birch pollen season in allergic patients. Woschnagg C, et al. **Clin Exp Allergy** 1996 Sep;26(9):1064–72

Differential responses of asthmatic airways to enantiomers of albuterol. Implications for clinical treatment of asthma. Perrin-Fayolle M, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):139–47

IL-1 beta release from cultured bronchial epithelial cells and bronchoalveolar lavage cells from allergic and normal humans following segmental challenge with ragweed. Hastie AT, et al. **Cytokine** 1996 Sep;8(9):730–8

Ketotifen pharmacokinetics in children with atopic perennial asthma. McFadyen ML, et al. **Eur J Clin Pharmacol** 1997; 52(5):383–6

Exhaled nitric oxide in childhood asthma. Artlich A, et al. **Eur J Pediatr** 1996 Aug;155(8):698–701

Increased hydrogen peroxide and thiobarbituric acid-reactive products in expired breath condensate of asthmatic patients. Antczak A, et al. **Eur Respir J** 1997 Jun;10(6):1235–41

Airway nitric oxide in asthmatic children and patients with cystic fibrosis. Dötsch J, et al. **Eur Respir J** 1996 Dec; 9(12):2537–40

Expression of CD44 and integrins in bronchial mucosa of normal and mildly asthmatic subjects. Peroni DG, et al. **Eur Respir J** 1996 Nov;9(11):2236–42

Increased expression of mRNA encoding RANTES and MCP-3 in the bronchial mucosa in atopic asthma. Powell N, et al. **Eur Respir J** 1996 Dec;9(12):2454–60

Airway endothelin levels in asthma: influence of endobronchial allergen challenge and maintenance corticosteroid therapy. Redington AE, et al.
Eur Respir J 1997 May;10(5):1026–32

IL-5 production by bronchoalveolar lavage and peripheral blood mononuclear cells in asthma and atopy [see comments] Tang C, et al. **Eur Respir J** 1997 Mar; 10(3):624–32. Comment in: Eur Respir J 1997 Mar;10(3):513–5.

Defective inhibition of sodium on basophil histamine release in patients with allergic rhinitis and bronchial asthma. Tedeschi A, et al. **Eur Respir J** 1996 Oct;9(10):2070–6

Histamine and tryptase in bronchoalveolar lavage fluid samples from asthmatic children. Turner G, et al.
Inflamm Res 1997 Mar;46 Suppl 1:S69–70

The pharmacokinetics of pranlukast in healthy young and elderly subjects. Brocks DR, et al.
Int J Clin Pharmacol Ther 1996 Sep;34(9):375–9

Clinical significance of the increased peak levels of exhaled nitric oxide in patients with bronchial asthma. Satouchi M, et al. **Intern Med** 1996 Apr;35(4):270–5

Chloride transport and the actions of nedocromil sodium and cromolyn sodium in asthma. Alton EW, et al.
J Allergy Clin Immunol 1996 Nov;98(5 Pt 2):S102–5; discussion S105–6 (36 ref.)

Elevated expression of messenger ribonucleic acid encoding IL-13 in the bronchial mucosa of atopic and nonatopic subjects with asthma. Humbert M, et al.
J Allergy Clin Immunol 1997 May;99(5):657–65

Increased levels of nitric oxide derivatives in induced sputum in patients with asthma. Kanazawa H, et al.
J Allergy Clin Immunol 1997 May;99(5):624–9

Nasal nitric oxide is increased in patients with asthma and allergic rhinitis and may be modulated by nasal glucocorticoids. Kharitonov SA, et al.
J Allergy Clin Immunol 1997 Jan;99(1 Pt 1):58–64

Upregulation of alpha GM-CSF-receptor in nonatopic asthma but not in atopic asthma. Kotsimbos AT, et al.
J Allergy Clin Immunol 1997 May;99(5):666–72

Histamine H2 receptor-mediated airway goblet cell secretion and its modulation by histamine-degrading enzymes. Tamaoki J, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):233–8

Abnormalities of cell and mediator levels in bronchoalveolar lavage fluid of patients with mild asthma. Wenzel SE.
J Allergy Clin Immunol 1996 Nov;98(5 Pt 2):S17–21; discussion S33–40 (21 ref.)

Eicosanoids and lipocortin-1 in BAL fluid in asthma: effects of smoking and inhaled glucocorticoids. Van Hal PT, et al. **J Appl Physiol** 1996 Aug;81(2):548–55

Anti-interleukin-4 inhibits immunoglobulin E production in a murine model of atopic asthma. Zhou CY, et al.
J Asthma 1997;34(3):195–201

Analytical methods for the measurement of leukotrienes and other eicosanoids in biological samples from asthmatic subjects. Kumlin M. **J Chromatogr A** 1996 Feb 19; 725(1):29–40 (56 ref.)

Beta-endorphin concentrations in the sera of asthmatic patients. Jankowska R, et al.
J Investig Allergol Clin Immunol 1996 Nov-Dec;6(6):356–8

P-glycoprotein expression in circulating blood leukocytes of patients with steroid-resistant asthma. Montano E, et al.
J Investig Allergol Clin Immunol 1996 Jan-Feb;6(1):14–21

Increased plasma level of platelet-activating factor (PAF) and decreased serum PAF acetylhydrolase (PAFAH) activity in adults with bronchial asthma. Tsukioka K, et al. **J Investig Allergol Clin Immunol** 1996 Jan-Feb;6(1):22–9

Adhesion molecules and asthma. Nourshargh S.
J Pharm Pharmacol 1997 May;49 Suppl 3:33–8 (48 ref.)

Orbital complications of sinusitis in the aspirin triad syndrome. McFadden EA, et al. **Laryngoscope** 1996 Sep; 106(9 Pt 1):1103–7

Expression of cytokine mRNA in bronchoalveolar lavage cells from atopic asthmatics before late antigen-induced reaction. Miadonna A, et al. **Lung** 1997;175(3):195–209

Arachidonic acid metabolites: mediators of inflammation in asthma. Wenzel SE. **Pharmacotherapy** 1997 Jan-Feb;17(1 Pt 2):3S–12S (42 ref.)

Interleukin-13 and interleukin-4 are coexpressed in atopic asthma. Kotsimbos TC, et al.
Proc Assoc Am Physicians 1996 Sep;108(5):368–73

Effect of azelastine hydrochloride on release and production of platelet activating factor in human neutrophils. Shindo K, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 May;56(5):373–7

Granulocyte-macrophage colony stimulating factors (GM-CSF) and interleukin 8 (IL-8) production by human bronchial epithelial cells (HBEC) in asthmatics and controls. Lack of in vitro effect of salbutamol compared to sodium nedocromil. Gormand F, et al.
Pulm Pharmacol 1995 Apr-Jun;8(2-3):107–13

Cardiovascular autonomic regulation in asthmatic children evidenced by spectral analysis of heart rate and blood pressure variability. Jartti TT, et al.
Scand J Clin Lab Invest 1996 Oct;56(6):545–54

Endothelin-1 levels in induced sputum samples from asthmatic and normal subjects. Chalmers GW, et al.
Thorax 1997 Jul;52(7):625–7

Effect of inhaled glucocorticoids on IL-1 beta and IL-1 receptor antagonist (IL-1 ra) expression in asthmatic bronchial epithelium. Sousa AR, et al. **Thorax** 1997 May; 52(5):407–10

Loss of normal cyclical beta 2 adrenoceptor regulation and increased premenstrual responsiveness to adenosine monophosphate in stable female asthmatic patients [see comments] Tan KS, et al. **Thorax** 1997 Jul;52(7):608–11. Comment in: Thorax 1997 Jul;52(7):591–2.

Synthetic functions of airway smooth muscle in asthma. Johnson SR, et al. **Trends Pharmacol Sci** 1997 Aug; 18(8):288–92 (60 ref.)

[Breath condensate as a method of noninvasive assessment of inflammation mediators from the lower airways] Becher G, et al. **Pneumologie** 1997 Apr;51 Suppl 2:456–9 (Eng. Abstr.) **(Ger)**

[Increased production of nitric oxide in the immediate and late asthmatic responses in models of guinea pig experimental asthma] Uchida Y, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:190–2 (Eng. Abstr.) **(Jpn)**

[The effect of glucocorticoids on mineral metabolism in bronchial asthma patients] Emel'ianov AV, et al.
Ter Arkh 1995;67(12):31–3 (Eng. Abstr.) **(Rus)**

[Coupling of calcium homeostasis and lipid peroxidation in mechanisms of bronchial hyperreactivity in patients with bronchial asthma] Amatuni VG, et al. **Vopr Med Khim** 1996 Oct-Dec;42(4):314–8 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Binding of Aspergillus fumigatus spores to lung epithelial cells and basement membrane proteins: relevance to the asthmatic lung. Bromley IM, et al. **Thorax** 1996 Dec; 51(12):1203–9

[Asthma and Chlamydia pneumoniae. A future prospect for macrolides in general and roxithromycin in particular?] Mayaud C. **Presse Med** 1997 Mar;26 Suppl 2:27–9 (21 ref.) **(Fre)**

MORTALITY

Cost-effective management of malignant potentially fatal asthma. Levenson T, et al. **Allergy Asthma Proc** 1997 Mar-Apr;18(2):73–8

Identifying the reasons for increased asthma mortality [letter; comment] Mack AN. **Am Fam Physician** 1996 Oct; 54(5):1478. Comment on: Am Fam Physician 1995 Dec;52(8):2225–35.

Asthma mortality and occupation in Sweden 1981–1992. Torén K, et al. **Am J Ind Med** 1997 Jun;31(6):678–81

Trends in US asthma mortality: good news and bad news [editorial; comment] Lang DM.
Ann Allergy Asthma Immunol 1997 Apr;78(4):333–7 (58 ref.) . Comment on: Ann Allergy Asthma Immunol 1997 Apr;78(4):347–54.

Stabilization of asthma mortality [see comments] Sly RM, et al. **Ann Allergy Asthma Immunol** 1997 Apr;78(4):347–54 (66 ref.). Comment in: Ann Allergy Asthma Immunol 1997 Apr;78(4):333–7.

Observations on asthma mortality. McFadden ER Jr, et al. **Ann Intern Med** 1997 Jul 15;127(2):142–7 (93 ref.)

Age specific trends in asthma mortality in England and Wales, 1983–95: results of an observational study [see comments] Campbell MJ, et al. **BMJ** 1997 May 17; 314(7092):1439–41. Comment in: BMJ 1997 May 17;314(7092):1427–8.

Learning from asthma deaths [editorial; comment] Woolcock AJ. **BMJ** 1997 May 17;314(7092):1427–8. Comment on: BMJ 1997 May 17;314(7092):1439–41.

The asthma death problem revisited [letter; comment] Ernst P, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):339. Comment on: Br J Clin Pharmacol 1996 Jul;42(1):11–4.

The asthma death problem revisited [see comments] Fuller RW. **Br J Clin Pharmacol** 1996 Jul;42(1):11–4 (27 ref.). Comment in: Br J Clin Pharmacol 1997 Mar;43(3):339.

A confidential enquiry into deaths caused by asthma in an English health region: implications for general practice [see comments] Mohan G, et al. **Br J Gen Pract** 1996 Sep; 46(410):529–32. Comment in: Br J Gen Pract 1997 Feb;47(415):125.

Deaths caused by asthma [letter; comment] Rickenbach M. **Br J Gen Pract** 1997 Feb;47(415):125. Comment on: Br J Gen Pract 1996 Sep;46(410):529–32.

International trends in asthma mortality. Beasley R, et al. **Ciba Found Symp** 1997;206:140–50; discussion 150–6, 157–9 (54 ref.)

Why is asthma becoming more of a problem? Meza C, et al. **Curr Opin Pulm Med** 1997 Jan;3(1):6–9 (23 ref.)

Asthma mortality and antipsychotic or sedative use. What is the link? Joseph KS. **Drug Saf** 1997 Jun;16(6):351–4 (32 ref.)

Using computer-based medical records to predict mortality risk for inner-city patients with reactive airways disease. Tierney WM, et al. **J Am Med Inform Assoc** 1997 Jul-Aug; 4(4):313–21

Asthma in Hawaii: a tradition of excess mortality. Massey DG, et al. **J Asthma** 1997;34(2):113–7

International trends in sales of inhaled fenoterol, all inhaled beta-agonists, and asthma mortality, 1970–1992. Lanes SF, et al. **J Clin Epidemiol** 1997 Mar;50(3):321–8

Deaths from asthma in Italy (1974–1988): is there a relationship with changing pharmacological approaches? Mormile F, et al. **J Clin Epidemiol** 1996 Dec;49(12):1459–66

Can regional variation in "avoidable" mortality be explained by deaths outside hospital? A study from Sweden, 1987–90. Westerling R. **J Epidemiol Community Health** 1996 Jun; 50(3):326–33

Asthma mortality: the worldwide response. Lieberman JS, et al. **J R Soc Med** 1997 May;90(5):265–7

Asthma mortality -- Illinois, 1979–1994.
MMWR Morb Mortal Wkly Rep 1997 Sep 19;46(37):877–80

Asthma mortality in New Jersey residents. Huss H, et al. **N J Med** 1996 Mar;93(3):164–6

Variability of airway structure and inflammation in normal subjects and in cases of nonfatal and fatal asthma. Carroll N, et al. **Pathol Res Pract** 1996 Mar;192(3):238–48

Asthma statistics in The Netherlands 1980–94. Wever-Hess J, et al. **Respir Med** 1997 Aug;91(7):417–22

Death due to asthma at workplace in a diphenylmethane diisocyanate-sensitized subject. Carino M, et al. **Respiration** 1997;64(1):111–3 (16 ref.)

Mortality from asthma in the state of S. Paulo, Brazil (1970–1992). Lotufo PA, et al. **Rev Saude Publica** 1995 Dec; 29(6):434–9

Acute severe asthma--are deaths preventable? [editorial; comment] Abisheganaden J, et al. **Singapore Med J** 1997 Jun;38(6):235–6. Comment on: Singapore Med J 1997 Jun;38(6):238–40, 243.

Severe asthma [see comments] Lee KH, et al. **Singapore Med J** 1997 Jun;38(6):238–40, 243. Comment in: Singapore Med J 1997 Jun;38(6):235–6.

Potential for tolerance, morbidity, and mortality resulting from regular use of beta 2-adrenergic agonists in asthma. Giangrasso T. **South Med J** 1997 Feb;90(2):173–9 (31 ref.)

Health service accessibility and deaths from asthma [editorial; comment] Garrett JE. **Thorax** 1997 Mar;52(3):205–6. Comment on: Thorax 1997 Mar;52(3):218–22.

Accuracy of recording of deaths from asthma in the UK: the false negative rate [see comments] Guite HF, et al. **Thorax** 1996 Sep;51(9):924–8. Comment in: Thorax 1997 Apr;52(4):397.

Mortality of adults with asthma: a prospective cohort study. Huovinen E, et al. **Thorax** 1997 Jan;52(1):49–54

Health service accessibility and deaths from asthma in 401 local authority districts in England and Wales, 1988–92 [see comments] Jones AP, et al. **Thorax** 1997 Mar;52(3):218–22 . Comment in: Thorax 1997 Mar;52(3):205–6.

Drug use and pulmonary death rates in increasingly symptomatic asthma patients in the UK. Meier CR, et al. **Thorax** 1997 Jul;52(7):612–7

[Mortality in adults with asthma. Results from the Osterbro study] Lange P, et al. **Ugeskr Laeger** 1997 Jul 14; 159(29):4516–20 (Eng. Abstr.) **(Dan)**

[A comparison of asthma deaths and near-fatal asthma attacks] Sudo M, et al. **Arerugi** 1996 Dec;45(12):1262–9 (Eng. Abstr.) **(Jpn)**

[Deaths from asthma, bronchitis and pulmonary heart disease in Warsaw in the years 1993–1994] May K, et al. **Pol Merkuriusz Lek** 1996 Jul;1(1):34–7 (Eng. Abstr.) **(Pol)**

[Asthma-related mortality in the city of Rosário] Nannini LJ. **Medicina (B Aires)** 1995;55(6):647–51 (Eng. Abstr.) **(Spa)**

[Asthma mortality in the state of Nuevo León, México] Canseco González C, et al. **Rev Alerg Mex** 1993 Sep–Oct; 40(5):119–23 (Eng. Abstr.) **(Spa)**

NURSING

Adult asthma review in general practice: nurses' perception of their role. Robertson R, et al. **Fam Pract** 1997 Jun; 14(3):227–32

The hospitalized child with asthma. Meng A, et al. **MCN Am J Matern Child Nurs** 1997 May–Jun;22(3):128–34

An asthma day camp. Meng A. **MCN Am J Matern Child Nurs** 1997 May–Jun;22(3):135–41

PARASITOLOGY

Occupational asthma in greenhouse tomato growing. Erlam AR, et al. **Occup Med (Oxf)** 1996 Apr;46(2):163–4

[Parasitic invasions and bronchial obstruction] Shchennikov EL, et al. **Klin Med (Mosk)** 1996;74(7):48–50 (Eng. Abstr.) **(Rus)**

PATHOLOGY

High-resolution computed tomography of airway changes after induced bronchoconstriction and bronchodilation in asthmatic volunteers. Kee ST, et al. **Acad Radiol** 1996 May; 3(5):389–94

Similarities and dissimilarities between asthma and inflammatory bowel diseases. Collins SM. **Aliment Pharmacol Ther** 1996;10 Suppl 2:25–31 (51 ref.)

Airway inflammation and asthma. O'Byrne PM. **Aliment Pharmacol Ther** 1996;10 Suppl 2:18–24 (55 ref.)

Reactive airways dysfunction syndrome induced by exposure to a mixture containing isocyanate: functional and histopathologic behaviour. Lemière C, et al. **Allergy** 1996 Apr;51(4):262–5

Morphologic and functional properties of bronchial cells isolated from normal and asthmatic subjects. Goulet F, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):312–8

Successful transfer of late phase eosinophil infiltration in the lung by infusion of helper T cell clones. Kaminuma O, et al. **Am J Respir Cell Mol Biol** 1997 Apr;16(4):448–54

Bronchial blood vessel dimensions in asthma. Carroll NG, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):689–95

Prostaglandin H synthase 1 and 2 immunoreactivities in the bronchial mucosa of asthmatics. Demoly P, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):670–5

Eosinophils and T cells in fatal asthma [letter; comment] Jahnsen FL, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1167–8. Comment on: Am J Respir Crit Care Med 1996 Jul;154(1):224–30.

Pathology of mild, severe, and fatal asthma. Kay AB. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S66–9 (35 ref.)

Alveolar tissue inflammation in asthma. Kraft M, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1505–10

Increased vascularity of the bronchial mucosa in mild asthma. Li X, et al. **Am J Respir Crit Care Med** 1997 Jul; 156(1):229–33

Human airway narrowing measured using high resolution computed tomography. Okazawa M, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1557–62

Inflammation in bronchial biopsies of subjects with chronic bronchitis: inverse relationship of CD8+ T lymphocytes with FEV1. O'Shaughnessy TC, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):852–7

Transforming growth factor-beta expression in mucosal biopsies in asthma and chronic bronchitis. Vignola AM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):591–9

Antigen stimulation of human pulmonary smooth muscle: an in vitro model of inflammation. Gorenne I, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):239–44

Bronchial subepithelial fibrosis correlates with airway responsiveness to methacholine. Boulet LP, et al. **Chest** 1997 Jul;112(1):45–52

Airways remodeling is a distinctive feature of asthma and is related to severity of disease. Chetta A, et al. **Chest** 1997 Apr;111(4):852–7

BAL neutrophilia in asthmatic patients. A by-product of eosinophil recruitment? [see comments] Frangova V, et al. **Chest** 1996 Nov;110(5):1236–42. Comment in: Chest 1996 Nov;110(5):1138–9.

Human late asthmatic reactions. Bentley AM, et al. **Clin Exp Allergy** 1997 May;27 Suppl 1:71–86 (159 ref.)

Pathological changes according to the severity of asthma. Cho SH, et al. **Clin Exp Allergy** 1996 Oct;26(10):1210–9

Theophylline in chronic asthma--evidence for disease-modifying properties. Chung KF. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:22–7 (59 ref.)

Pathology of rhinitis and bronchial asthma. Djukanović R, et al. **Clin Exp Allergy** 1996 May;26 Suppl 3:44–51 (68 ref.)

Comparison of inflammatory cell counts in asthma: induced sputum vs bronchoalveolar lavage and bronchial biopsies. Grootendorst DC, et al. **Clin Exp Allergy** 1997 Jul; 27(7):769–79

Airway remodelling takes place in asthma--what are the clinical implications? [editorial; comment] Haahtela T. **Clin Exp Allergy** 1997 Apr;27(4):351–3 (30 ref.). Comment on: Clin Exp Allergy 1997 Apr;27(4):363–71.

The investigation of airway inflammation in asthma: sputum examination. Hargreave FE. **Clin Exp Allergy** 1997 May; 27 Suppl 1:36–40 (39 ref.)

A comparison of serum haptoglobin levels between acute exacerbation and clinical remission in asthma. Koh YY, et al. **Clin Exp Allergy** 1996 Oct;26(10):1202–9

The role of theophylline in the management of chronic asthma in adults. McDonald CJ, et al. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:42–6 (64 ref.)

Increased numbers of dendritic cells in the bronchial mucosa of atopic asthmatic patients: downregulation by inhaled corticosteroids. Möller GM, et al. **Clin Exp Allergy** 1996 May;26(5):517–24

Dendritic cells in the lung: what is their relevance to asthma? [editorial] Semper AE, et al. **Clin Exp Allergy** 1996 May; 26(5):485–90

Dendritic cells in normal and asthmatic airways: expression of the alpha subunit of the high affinity immunoglobulin E receptor (Fc epsilon RI -alpha). Tunon-De-Lara JM, et al. **Clin Exp Allergy** 1996 Jun;26(6):648–55

Airway structure and inflammatory cells in fatal attacks of asthma. Carroll N, et al. **Eur Respir J** 1996 Apr;9(4):709–15

The distribution of eosinophils and lymphocytes in the large and small airways of asthmatics. Carroll N, et al. **Eur Respir J** 1997 Feb;10(2):292–300

Size and strength of the respiratory and quadriceps muscles in patients with chronic asthma. de Bruin PF, et al. **Eur Respir J** 1997 Jan;10(1):59–64

Induced sputum cell and fluid-phase indices of inflammation: comparison of treatment with dithiothreitol vs phosphate-buffered saline. Efthimiadis A, et al. **Eur Respir J** 1997 Jun;10(6):1336–40

Lung immunopathology in cases of sudden asthma death. Faul JL, et al. **Eur Respir J** 1997 Feb;10(2):301–7

Comparison of an expert system with other clinical scores for the evaluation of severity of asthma. Gautier V, et al. **Eur Respir J** 1996 Jan;9(1):58–64

Airway smooth muscle cell culture: application to studies of airway wall remodelling and phenotype plasticity in asthma. Hirst SJ. **Eur Respir J** 1996 Apr;9(4):808–20 (107 ref.)

Bronchial brush biopsies for studies of epithelial inflammation in stable asthma and nonobstructive chronic bronchitis [see comments] Riise GC, et al. **Eur Respir J** 1996 Aug; 9(8):1665–71. Comment in: Eur Respir J 1996 Aug;9(8):1583.

Continuity of airway goblet cells and intraluminal mucus in the airways of patients with bronchial asthma. Shimura S, et al. **Eur Respir J** 1996 Jul;9(7):1395–401

Assessment of airway inflammation in children with acute asthma using induced sputum. Twaddell SH, et al. **Eur Respir J** 1996 Oct;9(10):2104–8

Regulation of eosinophil cell death by adhesion to fibronectin. Higashimoto I, et al. **Int Arch Allergy Immunol** 1996;111 Suppl 1:66–9

Effect of T-440, a novel type IV phosphodiesterase inhibitor, on allergen-induced immediate and late asthmatic reaction and leukocyte infiltration into the airways of guinea pigs. Kaminuma O, et al. **Int Arch Allergy Immunol** 1997 Apr; 112(4):406–11

Enhancement of hypoxemia by right-to-left atrial shunting in severe asthma [letter; comment] Boon ES. **Intensive Care Med** 1996 Feb;22(2):176. Comment on: Intensive Care Med 1994 Nov;20(8):585–7.

Late-phase inflammation: influence on morbidity. Charlesworth EN. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 3):S291–7 (59 ref.)

Eosinophils, mast cells, and basophils in induced sputum from patients with seasonal allergic rhinitis and perennial asthma: relationship to methacholine responsiveness. Foresi A, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):58–64

Inflammation of small airways in asthma. Hamid Q, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):44–51

The effect of drug therapy on long-term outcome of childhood asthma: a possible preview of the international guidelines. König P, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1103–11

Bronchial biopsy findings in intermittent or "early" asthma. Laitinen LA, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S3–6; discussion S33–40

Rifampin-induced deterioration in steroid-dependent asthma. Lin FL. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1125

Repair mechanisms in asthma. Rennard SI. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S278–86 (85 ref.)

Inflammatory determinants of asthma severity: mediator and cellular changes in bronchoalveolar lavage fluid of patients with severe asthma. Virchow JC Jr, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S27–33; discussion S33–40 (23 ref.)

Interleukin-5 expression in the lung epithelium of transgenic mice leads to pulmonary changes pathognomonic of asthma. Lee JJ, et al. **J Exp Med** 1997 Jun 16; 185(12):2143–56

International study of asthma and allergies in childhood. Results of the first phase of the I.S.A.A.C. project in Pamplona, Spain. Fernández Benítez M, et al. **J Investig Allergol Clin Immunol** 1996 Sep–Oct;6(5):288–93

Lower airways remodeling in nonasthmatic subjects with allergic rhinitis. Chakir J, et al. **Lab Invest** 1996 Nov; 75(5):735–44

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 4–1997. A 37-year-old man with AIDS and wheezing refractory to bronchodilator medication [clinical conference] **N Engl J Med** 1997 Jan 30;336(5):357–64

Variability of airway structure and inflammation in normal subjects and in cases of nonfatal and fatal asthma. Carroll N, et al. **Pathol Res Pract** 1996 Mar;192(3):238–48

Cellular profiles in asthmatic airways: a comparison of induced sputum, bronchial washings, and bronchoalveolar lavage fluid. Keatings VM, et al. **Thorax** 1997 Apr; 52(4):372–4

Sputum differential cell counts [letter; comment] Maziak W. **Thorax** 1997 May;52(5):494. Comment on: Thorax 1996 Oct;51(10):1000–4.

Airway wall remodelling in asthma [editorial] Redington AE, et al. **Thorax** 1997 Apr;52(4):310–2

Role of sputum differential cell count in detecting airway inflammation in patients with chronic bronchial asthma or COPD [see comments] Ronchi MC, et al. **Thorax** 1996 Oct; 51(10):1000–4. Comment in: Thorax 1997 May;52(5):494.

[Inflammation in asthma] **J Pharm Belg** 1997 May–Jun; 52(3):129–30 (0 ref.) **(Fre)**

[Dysregulated apoptosis in chronic eosinophilic diseases--new therapeutic strategies for allergies and bronchial asthma] Simon HU. **Pneumologie** 1996 Nov; 50(11):790–6 (56 ref.) **(Ger)**

[Histological evaluation of bronchial tissue from elderly individuals with bronchial asthma] Aoki K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1421–9 (Eng. Abstr.) **(Jpn)**

[Infiltration of inflammatory cells and expression of adhesion molecules in bronchial mucosa of patients with asthma] Nakamura Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34(12):1317–25 (Eng. Abstr.) **(Jpn)**

[Histopathological changes and hyperresponsiveness in asthmatic airways: relationship to peak expiratory flow] Sugiyama K, et al. **Nippon Rinsho** 1996 Nov;54(11):2944–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Regulation of expression of the surface structure of the lymphocyte membrane by purine compounds in health and in disease] Poriadin GV, et al. **Patol Fiziol Eksp Ter** 1997 Jan–Mar;(1):42–5 (82 ref.) **(Rus)**

[The morphometric characteristics of the blood and sputum eosinophils in bronchial asthma patients] Anaev EKh, et al. **Ter Arkh** 1997;69(3):23–5 (Eng. Abstr.) **(Rus)**

[Asthma-like inflammation--a new term is needed (editorial)] Haahtela T. **Nord Med** 1997 Apr;112(4):110–1 **(Swe)**

PHYSIOPATHOLOGY

Asthma and chronic obstructive pulmonary disease--pathophysiology and treatment. Kneussl MP. **Acta Anaesthesiol Scand Suppl** 1996;109:184–5

Spirometry, bronchodilator test or symptom scoring for the assessment of childhood asthma. Linna O. **Acta Paediatr** 1996 May;85(5):564–9

Growth of asthmatic children is slower during than before treatment with inhaled glucocorticoids. Saha MT, et al. **Acta Paediatr** 1997 Feb;86(2):138–42

Pathophysiology of bronchial asthma. Widdicombe J. **Adv Exp Med Biol** 1995;381:27–36 (40 ref.)

Serum levels of eosinophil cationic protein and eosinophil protein x in pollen atopic patients with stable asthma and its relation with bronchial hyperresponsiveness. Chivato T, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec; 24(6):243–7

Value of the peak expiratory flow in bronchodynamic tests. Pino JM, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):54–7

Effects of immunotherapy on symptoms, PEFR, spirometry, and airway responsiveness in patients with allergic asthma to house-dust mites (D. pteronyssinus) on inhaled steroid therapy. Costa JC, et al. **Allergy** 1996 Apr;51(4):238–44

Allergen-induced changes in airway responsiveness are related to baseline airway responsiveness. de Bruin-Weller MS, et al. **Allergy** 1996 Jun;51(6):401–6

The prevalence of asthmatic respiratory symptoms among adults in Estonian and Swedish university cities. Jõgi R, et al. **Allergy** 1996 May;51(5):331–6

Voice reactions to histamine inhalation in asthma. Leinonen L, et al. **Allergy** 1997 Jan;52(1):27–31

Physical capacity and dyspnea in patients with asthma-like symptoms but negative asthma tests. Ringsberg KC, et al. **Allergy** 1997 May;52(5):532–40

Eosinophil activity markers in peripheral blood have high predictive value for bronchial hyperreactivity in patients with suspected mild asthma. Roquet A, et al. **Allergy** 1996 Jul;51(7):482–8

Airway responsiveness in asthma: bronchial challenge with histamine and 4.5% sodium chloride before and after budesonide. du Toit JI, et al. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):7–14

Serum ECP levels in asthmatic patients: comparison with other follow-up parameters. Parra A, et al. **Allergy Asthma Proc** 1996 Jul–Aug;17(4):191–7

Leukotrienes: pathophysiologic role and therapeutic potentials in asthma. Sanico AM, et al. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):331–4 (41 ref.)

Localization of eosinophils to airway nerves and effect on neuronal M2 muscarinic receptor function. Costello RW, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L93–103

Morphologic and functional properties of bronchial cells isolated from normal and asthmatic subjects. Goulet F, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):312–8

Development of airway hyperresponsiveness is dependent on interferon-gamma and independent of eosinophil infiltration. Hessel EM, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):325–34

Perhaps airway smooth muscle dysfunction contributes to asthmatic bronchial hyperresponsiveness after all. Solway J, et al. **Am J Respir Cell Mol Biol** 1997 Aug;17(2):144–6

Effects of bronchomotor tone and gas density on time dependence of forced expiratory vital capacity maneuver. D'Angelo E, et al. **Am J Respir Crit Care Med** 1996 Nov; 154(5):1318–22

The effect of inhaled leukotriene D4 and methacholine on sputum cell differentials in asthma. Diamant Z, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1247–53

Inhibition of PAF-induced gas exchange defects by beta-adrenergic agonists in mild asthma is not due to bronchodilation. Díaz O, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):17–22

Lactoferrin, a potent tryptase inhibitor, abolishes late-phase airway responses in allergic sheep. Elrod KC, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):375–81

Similar RANTES levels in healthy and asthmatic airways by immunoassay and in situ hybridization. Fahy JV, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1095–100

Autotoxicity of nitric oxide in airway disease. Flak TA, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S202–6 (46 ref.)

Acute effects of summer air pollution on respiratory health of asthmatic children. Gielen MH, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2105–8

Intravenous lidocaine and oral mexiletine block reflex bronchoconstriction in asthmatic subjects. Groeben H, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):885–8

Effects of experimental rhinovirus 16 infection on airway hyperresponsiveness to bradykinin in asthmatic subjects in vivo. Grünberg K, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):833–8

Is endothelin-1 a mediator in asthma? Hay DW, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1594–7 (40 ref.)

Hyperpnea-induced changes in parenchymal lung mechanics in normal subjects and in asthmatics. Kaminsky DA, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1260–6

Surface activity of sputum from acute asthmatic patients. Kurashima K, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1254–9

Asymptomatic airway hyperresponsiveness: a three-year follow-up. Laprise C, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):403–9

Severity of asthma is related to endotoxin in house dust. Michel O, et al. **Am J Respir Crit Care Med** 1996 Dec; 154(6 Pt 1):1641–6

Prolonged effect of tiotropium bromide on methacholine-induced bronchoconstriction in asthma. O'Connor BJ, et al. **Am J Respir Crit Care Med** 1996 Oct; 154(4 Pt 1):876–80

The effect of inhaled leukotriene B4 in normal and in asthmatic subjects. Sampson SE, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1789–92

Ventilatory function in British adults after asthma or wheezing illness at ages 0–35. Strachan DP, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1629–35

Nitrogen dioxide exposure enhances asthmatic reaction to inhaled allergen in subjects with asthma. Strand V, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):881–7

Modulation of airway reactivity and peak flow variability in asthmatics receiving the oral contraceptive pill. Tan KS, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1273–7

The effect of ABT-761, a novel 5-lipoxygenase inhibitor, on exercise- and adenosine-induced bronchoconstriction in asthmatic subjects. Van Schoor J, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):875–80

Safety of one method of sputum induction in asthmatic subjects. Wong HH, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):299–303

Prevalence of asthma and wheezing in public schoolchildren: association with maternal smoking during pregnancy. Hu FB, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):80–4

Characteristics of bronchial asthma with incomplete reversibility of airflow obstruction. Hudon C, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):195–202

Effect of cow milk on pulmonary function in atopic asthmatic patients. Nguyen MT. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):62–4

Improvement of bronchial hyperresponsiveness in asthmatic children treated for concomitant sinusitis. Oliveira CA, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):70–4

Sleep disturbances in clinically stable young asthmatic adults. Vir R, et al. **Ann Allergy Asthma Immunol** 1997 Sep; 79(3):251–5

LFA-1 and ICAM-1 are crucial for the induction of hyperreactivity in the mouse airways. Buckley TL, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:149–61

TH2-type cytokines in asthma. Kay AB. **Ann N Y Acad Sci** 1996 Oct 31;796:1–8 (45 ref.)

The role of interleukin-5 (IL-5) in allergic airway hyperresponsiveness in mice. Nagai H, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:91–6

Effects of breathing cold and warm air on lung function and physical performance in asthmatic and nonasthmatic athletes during exercise in the cold. Sandsund M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:751–6

Adrenal function and high dose inhaled corticosteroids for asthma. Yiallouros PK, et al. **Arch Dis Child** 1997 May; 76(5):405–10

Leukotrienes in asthma. The potential therapeutic role of antileukotriene agents. Smith LJ. **Arch Intern Med** 1996 Oct 28;156(19):2181–9 (95 ref.)

Alpha-adrenergic bronchoconstriction in man. Marcelle R. **Arch Physiol Biochem** 1996 Dec;104(7):851–4

Relationship of non-specific airway hyperresponsiveness (AHR) to measures of peak expiratory flow (PEF) variability. Kolbe J, et al. **Aust N Z J Med** 1996 Feb; 26(1):59–65

Eotaxin expression and eosinophilic inflammation in asthma. Mattoli S, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):299–301

The allergen Der p1 induces NF-kappaB activation through interference with IkappaB alpha function in asthmatic bronchial epithelial cells. Stacey MA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):522–6

Propofol or halothane anaesthesia for children with asthma: effects on respiratory mechanics. Habre W, et al. **Br J Anaesth** 1996 Dec;77(6):739–43

Effect of anaesthesia on lung function in children with asthma. May HA, et al. **Br J Anaesth** 1996 Aug;77(2):200–2

Pathophysiology of asthma. Barnes PJ. **Br J Clin Pharmacol** 1996 Jul;42(1):3–10 (61 ref.)

Effect of intravenous magnesium sulphate on airway calibre and airway reactivity to histamine in asthmatic subjects. Hill JM, et al. **Br J Clin Pharmacol** 1996 Nov;42(5):629–31

Deficiency of nitric oxide in allergen-induced airway hyperreactivity to contractile agonists after the early asthmatic reaction: an ex vivo study. de Boer J, et al. **Br J Pharmacol** 1996 Nov;119(6):1109–16

Anaesthetic management in patients with asthma [letter] Mercier FJ, et al. **Can J Anaesth** 1996 Feb;43(2):195–6

The patient with reactive airways disease. Moudgil GC. **Can J Anaesth** 1997 May;44(5 Pt 2):R77–89 (35 ref.) **(Eng, Fre)**

Clinical studies of effects of nitrogen oxides in healthy and asthmatic subjects. Kjaergaard SK, et al. **Cent Eur J Public Health** 1996;4 Suppl:23–6 (18 ref.)

'Circa Menstrual' rhythmicity and asthma [editorial; comment] Alberts WM. **Chest** 1997 Apr;111(4):840–2. Comment on: Chest 1997 Apr;111(4):847–51.

Lung epithelial permeability and bronchial responsiveness in subjects with stable asthma. Del Donno M, et al. **Chest** 1997 May;111(5):1255–60

Autonomic regulation in asthmatics with gastroesophageal reflux [see comments] Lodi U, et al. **Chest** 1997 Jan; 111(1):65–70. Comment in: Chest 1997 Jan;111(1):8–11.

The effect of nebulized albuterol on the activity of the renin-angiotensin system in asthma. Millar EA, et al. **Chest** 1997 Jan;111(1):71–4

Effect of inhaled magnesium sulfate on sodium metabisulfite-induced bronchoconstriction in asthma. Nannini LJ Jr, et al. **Chest** 1997 Apr;111(4):858–61

The association between asthma drugs and severe life-threatening attacks. Rea HH, et al. **Chest** 1996 Dec; 110(6):1446–51

Vagotonia and bronchial asthma [editorial; comment] Szentivaneji A, et al. **Chest** 1997 Jan;111(1):8–11. Comment on: Chest 1997 Jan;111(1):65–70.

Paradoxical down-regulation and desensitization of beta2-adrenoceptors by exogenous progesterone in female asthmatics [see comments] Tan KS, et al. **Chest** 1997 Apr; 111(4):847–51. Comment in: Chest 1997 Apr;111(4):840–2.

The incidence of respiratory tract infection in adults requiring hospitalization for asthma. Teichtahl H, et al. **Chest** 1997 Sep;112(3):591–6

Reevaluation of the relationship between within-day bronchial variability and bronchial responsiveness in asthmatic children. Kondo S, et al. **Chronobiol Int** 1997 Jan;14(1):61–9

Seasonal variation in the circadian rhythm of pulmonary function in stable asthmatic children who have nearly outgrown their asthma. Kondo S, et al. **Chronobiol Int** 1996 Oct;13(4):295–303

A practical guide for peak expiratory flow monitoring in asthma patients. Jain P, et al. **Cleve Clin J Med** 1997 Apr; 64(4):195–202 (42 ref.)

Beta-blocker induced asthma: a role for sensory nerve hyperresponsiveness? [editorial; comment] Belvisi M. **Clin Exp Allergy** 1996 Dec;26(12):1343–6 (29 ref.). Comment on: Clin Exp Allergy 1996 Dec;26(12):1428–35.

Airway neuropeptides and neutral endopeptidase in asthma [editorial] Chung KF. **Clin Exp Allergy** 1996 May; 26(5):491–3

Asthma, bronchial hyperreactivity and mediator release in children with birch pollinosis. ECP and EPX levels are not related to bronchial hyperreactivity. Ferdousi HA, et al. **Clin Exp Allergy** 1997 May;27(5):530–9

Role of sensory neuropeptides in post-allergic propranolol-induced bronchoconstriction in guinea pigs in vivo [see comments] Fujimura M, et al. **Clin Exp Allergy** 1996 Dec;26(12):1428–35. Comment in: Clin Exp Allergy 1996 Dec;26(12):1343–6.

Cell matrix interactions in asthma. Goldring K, et al. **Clin Exp Allergy** 1997 Jan;27(1):22–7 (87 ref.)

Effect of experimental rhinovirus 16 colds on airway hyperresponsiveness to histamine and interleukin-8 in nasal lavage in asthmatic subjects in vivo [see comments] Grünberg K, et al. **Clin Exp Allergy** 1997 Jan;27(1):36–45 . Comment in: Clin Exp Allergy 1997 Jan;27(1):7–9.

Airway remodelling takes place in asthma--what are the clinical implications? [editorial; comment] Haahtela T. **Clin Exp Allergy** 1997 Apr;27(4):351–3 (30 ref.). Comment on: Clin Exp Allergy 1997 Apr;27(4):363–71.

Pro-eosinophilic cytokines in asthma [editorial] Humbert M. **Clin Exp Allergy** 1996 Feb;26(2):123–7

Bronchial hyperresponsiveness and cytokines in virus-induced asthma exacerbations [editorial; comment] Johnston SL. **Clin Exp Allergy** 1997 Jan;27(1):7–9. Comment on: Clin Exp Allergy 1997 Jan;27(1):36–45.

Comparison of the ISAAC video questionnaire (AVQ3.0) with the ISAAC written questionnaire for estimating asthma associated with bronchial hyperreactivity. Lai CK, et al. **Clin Exp Allergy** 1997 May;27(5):540–5

Dysfunction of guinea-pig pulmonary surfactant and type II pneumocytes after repetitive challenge with aerosolized ovalbumin. Liu M, et al. **Clin Exp Allergy** 1997 Jul; 27(7):802–7

Airway function correlates with circulating eosinophil, but not mast cell, markers of inflammation in childhood asthma. Rao R, et al. **Clin Exp Allergy** 1996 Jul;26(7):789–93

Mouse models of allergic disease; how do they relate to asthma in man? [editorial; comment] Richards IM. **Clin Exp Allergy** 1996 Jun;26(6):618–20. Comment on: Clin Exp Allergy 1996 Jun;26(6):642–7.

The leukotrienes: mediators of chronic inflammation in asthma. Sampson AP. **Clin Exp Allergy** 1996 Sep; 26(9):995–1004 (103 ref.)

Granulocyte proteins in serum in childhood asthma: relation to spirometry and therapy. Scher H, et al. **Clin Exp Allergy** 1996 Oct;26(10):1131–41

Differential expression of platelet activation markers in aspirin-sensitive asthmatics and normal subjects. Taylor ML, et al. **Clin Exp Allergy** 1996 Feb;26(2):202–15

Seasonal differences in airway hyperresponsiveness in asthmatic patients: relationship with allergen exposure and sensitization to house dust mites. van der Heide S, et al. **Clin Exp Allergy** 1997 Jun;27(6):627–33

Mediators on human airway smooth muscle. Armour C, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr; 24(3–4):269–72 (32 ref.)

Glucocorticoids and Th-1, Th-2 type cytokines in rheumatoid arthritis, osteoarthritis, asthma, atopic dermatitis and AIDS. Norbiato G, et al. **Clin Exp Rheumatol** 1997 May–Jun;15(3):315–23 (79 ref.)

Airway responsiveness and atopy in families of patients with asthma. Laprise C, et al. **Clin Invest Med** 1996 Dec; 19(6):461–9

Repeatability of a rapid dosimetric method for methacholine challenge using a pocket turbine spirometer for FEV1 measurements. Hedman J, et al. **Clin Physiol** 1996 Jul; 16(4):353–9

Classification of lung sounds in patients with asthma,

emphysema, fibrosing alveolitis and healthy lungs by using self-organizing maps. Malmberg LP, et al. **Clin Physiol** 1996 Mar;16(2):115-29

The etiology and control of bronchial hyperresponsiveness in children. Spahn JD, et al. **Curr Opin Pediatr** 1996 Dec; 8(6):591-6 (41 ref.)

Mechanisms of asthma. Li JT. **Curr Opin Pulm Med** 1997 Jan;3(1):10-6 (47 ref.)

No alteration of biophysical parameters in the skin of subjects with respiratory atopy. Conti A, et al. **Dermatology** 1996; 192(4):317-20

Leukotriene activity modulation in asthma. Spector SL. **Drugs** 1997 Sep;54(3):369-84 (124 ref.)

Acute exposure to realistic acid fog: effects on respiratory function and airway responsiveness in asthmatics. Leduc D, et al. **Environ Res** 1995 Nov;71(2):89-98

Dysfunctional muscarinic M2 autoreceptors in vagally induced bronchoconstriction of conscious guinea pigs after the early allergic reaction. Ten Berge RE, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):131-9

Increased levels of protein kinase C in lymphocytes in asthma: possible mechanism of regulation. Bansal SK, et al. **Eur Respir J** 1997 Feb;10(2):308-13

Effect of ageing on peak expiratory flow variability and nocturnal exacerbations in bronchial asthma. Bellia V, et al. **Eur Respir J** 1997 Aug;10(8):1803-8

Changes in respiratory drive account for the magnitude of dyspnoea during bronchoconstriction in asthmatics. Bellofiore S, et al. **Eur Respir J** 1996 Jun;9(6):1155-9

Comparison of early and late asthmatic responses between patients with allergic rhinitis and mild asthma. Bonavia M, et al. **Eur Respir J** 1996 May;9(5):905-9

Peak flow variation in childhood asthma: relationship to symptoms, atopy, airways obstruction and hyperresponsiveness. Dutch CNSLD Study Group. Brand PL, et al. **Eur Respir J** 1997 Jun;10(6):1242-7

Night cough in a population-based sample of children: characteristics, relation to symptoms and associations with measures of asthma severity. Brooke AM, et al. **Eur Respir J** 1996 Jan;9(1):65-71

Vital capacities in acute and chronic airway obstruction: dependence on flow and volume histories. Brusasco V, et al. **Eur Respir J** 1997 Jun;10(6):1316-20

Voluntary decrease in breathing frequency in exercising asthmatic subjects. Ceugniet F, et al. **Eur Respir J** 1996 Nov;9(11):2273-9

Mucociliary clearance during and after isocapnic hyperventilation with dry air in the presence of frusemide. Daviskas E, et al. **Eur Respir J** 1996 Apr;9(4):716-24

Inhalation of hypertonic saline aerosol enhances mucociliary clearance in asthmatic and healthy subjects. Daviskas E, et al. **Eur Respir J** 1996 Apr;9(4):725-32

Effect of a bed covering system in children with asthma and house dust mite hypersensitivity. Frederick JM, et al. **Eur Respir J** 1997 Feb;10(2):361-6

Exhaled nitric oxide during acute changes of airways calibre in asthma. Garnier P, et al. **Eur Respir J** 1996 Jun; 9(6):1134-8

Change in osmolarity of disodium cromoglycate solution and protection against exercise-induced bronchospasm in children with asthma. Kano S, et al. **Eur Respir J** 1996 Sep;9(9):1891-5

Endobronchial secretion of interleukin-13 following local allergen challenge in atopic asthma: relationship to interleukin-4 and eosinophil counts. Kroegel C, et al. **Eur Respir J** 1996 May;9(5):899-904

Respiratory resistance by the forced oscillation technique in asthmatic children and cystic fibrosis patients. Lebecque P, et al. **Eur Respir J** 1997 Apr;10(4):891-5

Acute bronchial obstruction following inhalation of PAF in asthmatic and normal subjects: comparison with methacholine. Louis RE, et al. **Eur Respir J** 1996 Jul; 9(7):1414-20

The influence of breathhold on peak expiratory flow in normal and asthmatic children. Matsumoto I, et al. **Eur Respir J** 1996 Jul;9(7):1363-7

Effects of fluticasone propionate on methacholine dose-response curves in nonsmoking atopic asthmatics. Overbeek SE, et al. **Eur Respir J** 1996 Nov;9(11):2256-62

Lung hyperinflation and flow limitation in chronic airway obstruction. Pellegrino R, et al. **Eur Respir J** 1997 Mar; 10(3):543-9

Effect of inhaled beclomethasone dipropionate on isocapnic hyperventilation with cold air in asthmatics, measured with forced oscillation technique. Pennings HJ, et al. **Eur Respir J** 1997 Mar;10(3):665-71

The impact of inspiratory effort on inspiratory flow through Turbuhaler in asthmatic patients. Persson G, et al. **Eur Respir J** 1997 Mar;10(3):681-4

Short-term effects of particulate air pollution on respiratory morbidity in asthmatic children. Peters A, et al. **Eur Respir J** 1997 Apr;10(4):872-9

Measurement of inflammatory indices in induced sputum: effects of selection of sputum to minimize salivary contamination. Pizzichini E, et al. **Eur Respir J** 1996 Jun; 9(6):1174-80

Do sputum eosinophils and ECP relate to the severity of asthma? Ronchi MC, et al. **Eur Respir J** 1997 Aug; 10(8):1809-13

Effect of nitrogen dioxide and other combustion products on asthmatic subjects in a home-like environment. Salome CM, et al. **Eur Respir J** 1996 May;9(5):910-8

Exercise performance in children with asthma: is it different from that of healthy controls? Santuz P, et al. **Eur Respir J** 1997 Jun;10(6):1254-60

Effect of pattern of preceding inspiration on FEV1 in asthmatic children. Sette L, et al. **Eur Respir J** 1996 Sep; 9(9):1902-6

Effect of influenza A virus infection on acid-induced cough response in children with asthma. Shimizu T, et al. **Eur Respir J** 1997 Jan;10(1):71-4

Immediate and delayed effects of nitrogen dioxide exposure at an ambient level on bronchial responsiveness to histamine in subjects with asthma. Strand V, et al. **Eur Respir J** 1996 Apr;9(4):733-40

Oropharyngeal deposition of 3.5 microns particles inhaled through an elongated mouthpiece. Svartengren K, et al. **Eur Respir J** 1996 Jul;9(7):1556-9

Asthmatic bronchial hyperresponsiveness varies with ambient levels of summertime air pollution. Taggart SC, et al. **Eur Respir J** 1996 Jun;9(6):1146-54

Short-term variations in oscillatory and spirometric lung function indices among school children. Timonen KL, et al. **Eur Respir J** 1997 Jan;10(1):82-7

Increased bronchial responsiveness to exercise as a risk factor for symptomatic asthma: findings from a longitudinal population study of children and adolescents. Ulrik CS, et al. **Eur Respir J** 1996 Aug;9(8):1696-700

Effect of short-term NO2 exposure on induced sputum in normal, asthmatic and COPD subjects. Vagaggini B, et al. **Eur Respir J** 1996 Sep;9(9):1852-7

Gas exchange, expiratory flow obstruction and the clinical spectrum of asthma. Wagner PD, et al. **Eur Respir J** 1996 Jun;9(6):1278-82 (17 ref.)

Effects of long-acting and short-acting beta-agonists on methacholine dose-response curves in asthmatics. Wong AG, et al. **Eur Respir J** 1997 Feb;10(2):330-6

The effect of alcohol ingestion on exhaled nitric oxide. Yates DH, et al. **Eur Respir J** 1996 Jun;9(6):1130-3

Short-term clinical measurement: acute severe episodes. de Blic J, et al. **Eur Respir J Suppl** 1996 Apr;21:4s-7s (32 ref.)

Diurnal variation of PEF and its use in epidemiological studies. Lebowitz MD, et al. **Eur Respir J Suppl** 1997 Feb; 24:49S-56S

The role of alpha 4 integrins in lung pathophysiology. Lobb RR, et al. **Eur Respir J Suppl** 1996 Aug;22:104s-108s (34 ref.)

Physiological outcomes. Tepper R, et al. **Eur Respir J Suppl** 1996 Apr;21:12s-15s (44 ref.)

Overall symptom measurement: which approach? Wilson N, et al. **Eur Respir J Suppl** 1996 Apr;21:8s-11s

The eosinophil and its role in asthma. Thomas LH, et al. **Gen Pharmacol** 1996 Jun;27(4):593-7 (50 ref.)

A stepped-care approach to asthma management. Stoloff SW. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):33-4, 39

Innate defect? Bronchial epithelial cells of atopic patients with asthma lack the ability to activate allergens. Kimber I. **Hum Exp Toxicol** 1996 May;15(5):455

A study of autonomic status and its effect on ventilatory functions in bronchial asthma. Gupta S, et al. **Indian J Chest Dis Allied Sci** 1996 Jul-Sep;38(3):147-56

Recent concepts in the pathogenesis of bronchial asthma. Kumar S, et al. **Indian J Chest Dis Allied Sci** 1997 Jan-Mar; 39(1):27-45 (136 ref.)

Autonomic nervous system and asthma [editorial] Pande JN, et al. **Indian J Chest Dis Allied Sci** 1996 Jul-Sep;38(3):143-5 (20 ref.)

Study of pulmonary and autonomic functions of asthma patients after yoga training. Khanam AA, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):318-24

Bone marrow progenitors in allergic airways diseases: studies in canine and human models. Denburg JA, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):181-3

Effect of T-440, a novel type IV phosphodiesterase inhibitor, on allergen-induced immediate and late asthmatic reaction and leukocyte infiltration into the airways of guinea pigs. Kaminuma O, et al. **Int Arch Allergy Immunol** 1997 Apr; 112(4):406-11

Differences in nonspecific bronchial responsiveness between patients with asthma and patients with rhinitis are not explained by type and degree of inhalant allergy. Witteman AM, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):65-72

Effect of 3 hours' passive smoke exposure in the evening on airway tone and responsiveness until next morning. Nowak D, et al. **Int Arch Occup Environ Health** 1997; 69(2):125-33

Diurnal change of bronchial caliber and airway responsiveness in asthmatics during long-term treatment with long-acting beta 2-agonist salmeterol. Dottorini ML, et al. **Int J Clin Pharmacol Ther** 1996 Oct;34(10):438-43

Individualized training reduces excessive exercise hyperventilation in asthmatics. Varray AL, et al. **Int J Rehabil Res** 1995 Dec;18(4):297-312

Influence of high dose inhaled steroids on hypothalamo-pituitary-adrenal axis function in Japanese patients with asthma: a comparison over the course of time [published erratum appears in Intern Med 1996 Aug;35(8):674] Hasegawa T, et al. **Intern Med** 1996 May; 35(5):362-6

The protective effect of nedocromil sodium and other drugs on airway narrowing provoked by hyperosmolar stimuli: a role for the airway epithelium? Anderson SD, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S124-34; discussion S140-2

Allergen bronchoprovocation of patients with mild allergic asthma after ozone exposure. Ball BA, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):563-72

Asthma control versus asthma severity. Cockcroft DW, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1016-8 (5 ref.)

The relationship between airway hyperreactivity (AHR) and sodium, potassium adenosine triphosphatase (Na+,K+ ATPase) enzyme inhibition. Gentile DA, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):367-73

Asthma mechanisms, determinants of severity and treatment. Forward. Holgate ST. **J Allergy Clin Immunol** 1996 Nov; 98(5 Pt 2):S1-2

Determinants of airway responses to cat allergen: comparison of environmental challenge to quantitative nasal and bronchial allergen challenge. Sicherer SH, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):798-805

Histamine H2 receptor-mediated airway goblet cell secretion and its modulation by histamine-degrading enzymes. Tamaoki J, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):233-8

A methodological assessment of diurnal variability of peak flow as a basis for comparing different inhaled steroid formulations. Toogood JH, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):555-62

Influence of specific emotional states on autonomic reactivity and pulmonary function in asthmatic children. Miller BD, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):669-77

Friction in airway smooth muscle: mechanism, latch, and implications in asthma. Fredberg JJ, et al. **J Appl Physiol** 1996 Dec;81(6):2703-12

Effects of the combination of skin cooling and hyperpnea of frigid air in asthmatic and normal subjects. McDonald JS, et al. **J Appl Physiol** 1997 Feb;82(2):453-9

Lung mechanics during induced bronchoconstriction. Pellegrino R, et al. **J Appl Physiol** 1996 Aug;81(2):964-75

Residual abnormalities of pulmonary function in asymptomatic young adult asthmatics with childhood-onset asthma. Chiang CH, et al. **J Asthma** 1997; 34(1):15-21

Throwing the baby out with the bath water [editorial; comment] Irvin CG. **J Asthma** 1996;33(5):275-6. Comment on: J Asthma 1996;33(5):277-87.

Effect of pretreatment with heparin on pulmonary and cutaneous response. Kalpaklioğlu AF, et al. **J Asthma** 1997; 34(4):337-43

Peak expiratory flow monitoring in pediatric asthma: is there a role? [see comments] Sly PD. **J Asthma** 1996;33(5):277-87 (35 ref.). Comment in: J Asthma 1996;33(5):275-6.

FEF25-75 as a marker of airway obstruction in asthmatic children during reduced mite exposure at high altitude. Valletta EA, et al. **J Asthma** 1997;34(2):127-31

Role of macrophages in pulmonary late-phase reaction in guinea pigs. Yamada N, et al. **J Asthma** 1996;33(6):395-405

The importance of leukotrienes in airway inflammation in a mouse model of asthma. Henderson WR Jr, et al. **J Exp Med** 1996 Oct 1;184(4):1483-94

Kinetics of eotaxin generation and its relationship to eosinophil accumulation in allergic airways disease: analysis in a guinea pig model in vivo. Humbles AA, et al. **J Exp Med** 1997 Aug 18;186(4):601-12

Monocyte chemotactic protein-3 (MCP-3)/fibroblast-induced cytokine (FIC) in eosinophilic inflammation of the airways and the inhibitory effects of an anti-MCP-3/FIC antibody. Stafford S, et al. **J Immunol** 1997 May 15;158(10):4953-60

High-resolution computed tomography in patients with bronchial asthma: correlation with clinical features, pulmonary functions and bronchial hyperresponsiveness. Park JW, et al. **J Investig Allergol Clin Immunol** 1997 May-Jun;7(3):186-92

"Ovarian asthma"-- act or fancy? Gotthardt M, et al. **J Ky Med Assoc** 1996 Mar;94(3):105-8

C-C chemokine-induced eosinophil chemotaxis during allergic airway inflammation. Lukacs NW, et al. **J Leukoc Biol** 1996 Nov;60(5):573-8

Clinical characteristics of adult asthmatics requiring intubation. Lin RY, et al. **J Med** 1995;26(5-6):261-77

Increased variability in bronchial responsiveness in aluminum potroom workers with work-related asthma-like symptoms. Soyseth V, et al. **J Occup Environ Med** 1996 Jan;38(1):66-9

Conceptual and methodologic issues in quantifying perceptual accuracy in childhood asthma. Fritz GK, et al. **J Pediatr Psychol** 1996 Apr;21(2):153-73 (64 ref.)

Novel approaches to the inhibition of cytokine responses in asthma. Higgs OA. **J Pharm Pharmacol** 1997 May;49 Suppl 3:25-31 (92 ref.)

Augmentation of parasympathetic nerve function in patients with extrinsic bronchial asthma--evaluation by coefficiency of variance of R-R interval with modified long-term ECG monitoring system. Hashimoto A, et al. **Kobe J Med Sci** 1996 Dec;42(6):347-59

Complete resolution of airway hyperresponsiveness in aspirin-sensitive asthmatic patients. Park HS. **Korean J Intern Med** 1996 Jun;11(2):157-60

New asthma drugs target inflammatory cascade [news] Larkin M. **Lancet** 1997 Apr 5;349(9057):1004

Nocturnal asthma: mechanisms and therapy. Di Stefano A, et al. **Lung** 1997;175(1):53-61 (60 ref.)

Does puberty interfere with asthma? Zannolli R, et al. **Med Hypotheses** 1997 Jan;48(1):27–32 (38 ref.)

Routine pulmonary function tests in young adolescents with asthma in general practice [see comments] Hewson PH, et al. **Med J Aust** 1996 Nov 4;165(9):469–72. Comment in: Med J Aust 1996 Nov 4;165(9):463–4.

Caring for adolescents with asthma: do we know how to? [editorial; comment] Sawyer S, et al. **Med J Aust** 1996 Nov 4;165(9):463–4. Comment on: Med J Aust 1996 Nov 4;165(9):469–72.

Wingate test performance in children with asthma: aerobic or anaerobic limitation? Counil FP, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):430–5

The tracheobronchial vasculature: a possible role in asthma. Widdicombe J. **Microcirculation** 1996 Jun;3(2):129–41 (68 ref.)

Acute cardiovascular effects of salmeterol in subjects with stable bronchial asthma. Bagnato GF, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):275–8

Relationship between airway inflammation and mechanics in asthma. Brusasco V. **Monaldi Arch Chest Dis** 1996 Dec; 51(6):466–8 (36 ref.)

Knowledge of inflammatory cytokines and mediators in asthma: what is its importance in clinical practice? Nardini S. **Monaldi Arch Chest Dis** 1997 Feb;52(1):86–8

Ineffectiveness of a four week treatment with the thromboxane synthetase inhibitor, imidazole salycilate, in reducing airway hyperresponsiveness to methacholine in asthmatics. Peccini F, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):130–7

Acute airway inflammation: morphology. Saetta M. **Monaldi Arch Chest Dis** 1996 Dec;51(6):463–5 (22 ref.)

Assessment of chest wall kinematics by using optical reflectance movement analysis (ORMA) system in asthma. Scano G, et al. **Monaldi Arch Chest Dis** 1996 Dec; 51(6):479–82

Markers of acute airway inflammation. Vignola AM, et al. **Monaldi Arch Chest Dis** 1997 Feb;52(1):83–5 (39 ref.)

Growth factors in asthma. Vignola AM, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):159–69 (151 ref.)

Myofacial pain: asthma of the back and back pain in the workplace [letter] Thompson E. **Pain** 1996 Apr;65(1):111–4

Glucocorticoids and growth in asthmatic children. Kamada AK, et al. **Pediatr Allergy Immunol** 1995 Aug;6(3):145–54 (73 ref.)

Short stature in children with respiratory allergy. Sant'Anna CA, et al. **Pediatr Allergy Immunol** 1996 Nov;7(4):187–92

Differences in the effect of allergen avoidance on bronchial hyperresponsiveness as measured by methacholine, adenosine 5'-monophosphate, and exercise in asthmatic children. Benckhuijsen J, et al. **Pediatr Pulmonol** 1996 Sep; 22(3):147–53

Measurement of lung function in awake 2–4–year–old asthmatic children during methacholine challenge and acute asthma: a comparison of the impulse oscillation technique, the interrupter technique, and transcutaneous measurement of oxygen versus whole–body plethysmography. Klug B, et al. **Pediatr Pulmonol** 1996 May;21(5):290–300

Effect of age, height, and prechallenge respiratory resistance on bronchial hyperresponsiveness in childhood asthma using the forced oscillation technique. Mochizuki H, et al. **Pediatr Pulmonol** 1996 Jul;22(1):1–6

Childhood asthma and lung function in mid–adult life. Oswald H, et al. **Pediatr Pulmonol** 1997 Jan;23(1):14–20

Measurements of respiratory system resistance by the interrupter technique in healthy and asthmatic children. Oswald–Mammosser M, et al. **Pediatr Pulmonol** 1997 Aug; 24(2):78–85

Chest surface mapping of lung sounds during methacholine challenge. Pasterkamp H, et al. **Pediatr Pulmonol** 1997 Jan; 23(1):21–30

Premenstrual asthma: the effect of estrogen on symptoms, pulmonary function, and beta 2–receptors. Chandler MH, et al. **Pharmacotherapy** 1997 Mar–Apr;17(2):224–34

Bronchial asthma: lessons from murine models [comment] Gleich GJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2101–2 (27 ref.). Comment on: Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1344–9.

Allergen–induced bronchial hyperreactivity and eosinophilic inflammation occur in the absence of IgE in a mouse model of asthma [see comments] Mehlhop PD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1344–9. Comment in: Proc Natl Acad Sci U S A 1997 Mar 18;94(6):2101–2.

Effect of TYB–2285 on antigen–induced airway responses in sheep. Abraham WM, et al. **Pulm Pharmacol** 1996 Feb; 9(1):49–58

The role of sensory neuropeptides in airway hyperresponsiveness. Baraniuk JN. **Pulm Pharmacol** 1995 Aug–Oct;8(4–5):195–202 (52 ref.)

Overview of neural mechanisms in asthma. Barnes PJ. **Pulm Pharmacol** 1995 Aug–Oct;8(4–5):151–9 (68 ref.)

Involvement of thromboxane A2 in bronchial hyperresponsiveness of asthma. Kanazawa Asthma Research Group. Fujimura M, et al. **Pulm Pharmacol** 1995 Dec;8(6):251–7

Challenge interval determines tachyphylaxis to aerosolized LTD4. Madsen F, et al. **Pulm Pharmacol** 1995 Dec; 8(6):245–9

The effects of nedocromil sodium and sodium cromoglycate on airway nerves and neurogenic responses in asthma. Norris AA. **Pulm Pharmacol** 1995 Aug–Oct;8(4–5):227–30 (31 ref.)

Airway sensory nerves in asthma—targets for therapy? Spina D, et al. **Pulm Pharmacol** 1996 Feb;9(1):1–18 (257 ref.)

Nitric oxide and asthma. Barnes PJ. **Res Immunol** 1995 Nov–Dec;146(9):698–702 (51 ref.)

Genetics of airway responsiveness in the inbred mouse. De Sanctis GT, et al. **Res Immunol** 1997 Jan;148(1):73–9; discussion 79–83 (17 ref.)

Smooth muscle as a direct or indirect target accounting for bronchopulmonary hyperresponsiveness. Wills–Karp M. **Res Immunol** 1997 Jan;148(1):59–72 (125 ref.)

Recommendations for peak flow monitoring in children. British Thoracic Society. Clough JB. **Respir Med** 1996 Sep; 90(8):459–61

Assessment of accuracy and applicability of a portable electronic diary card spirometer for asthma treatment. Godschalk I, et al. **Respir Med** 1996 Nov;90(10):619–22

(A)symptomatic bronchial hyper–responsiveness and asthma. Jansen DF, et al. **Respir Med** 1997 Mar;91(3):121–34 (117 ref.)

Evaluation of a pocket–sized turbine spirometer for clinical use with children. Paul KP, et al. **Respir Med** 1997 Jul; 91(6):369–72

Bronchodilator response in pulmonary disease at two different states of respiratory mechanics. Ahmad HR, et al. **Respiration** 1996;63(5):288–91

Prediction of the need for mechanical ventilation in acute severe asthma. de Diego A, et al. **Respiration** 1996; 63(2):73–7

Relationship between serum heat–stable neutrophil chemotactic activity during early airway reaction to allergen and the pattern of airway response (early versus late reactions) in asthmatic subjects. Dente FL, et al. **Respiration** 1997;64(4):285–90

Nocturnal waking and morning dip of peak expiratory flow in clinically stable asthma patients during treatment. Occurrence and patient characteristics. Van Keimpema AR, et al. **Respiration** 1997;64(1):29–34

Effect of acute alterations in inspired oxygen tension on methacholine induced bronchoconstriction in patients with asthma. Dagg KD, et al. **Thorax** 1997 May;52(5):453–7

Effect of allergen challenge on airway responsiveness to histamine and sodium metabisulphite in mild asthma. Evans DJ, et al. **Thorax** 1996 Dec;51(12):1185–91

Safety of fibreoptic bronchoscopy in asthmatic and control subjects and effect on asthma control over two weeks. Humbert M, et al. **Thorax** 1996 Jul;51(7):664–9

Evaluation of nocturnal bronchoconstriction by all night tracheal sound monitoring. Lenclud C, et al. **Thorax** 1996 Jul;51(7):694–8

Effect of altitude on children with asthma [letter; comment] Polosa R. **Thorax** 1997 May;52(5):494. Comment on: Thorax 1996 Jun;51(6):582–4.

Comparison of pulmonary responses of asthmatic and nonasthmatic subjects performing light exercise while exposed to a low level of ozone. Horstman DH, et al. **Toxicol Ind Health** 1995 Jul–Aug;11(4):369–85

Influenza vaccination in patients with asthma: effect on peak expiratory flow, asthma symptoms and use of medication. Ahmed AH, et al. **Vaccine** 1997 Jun;15(9):1008–9

[The role of endothelin–1 and tumor necrosis factor–alpha in the development of asthma sarcoidosis] Liu Z, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Dec; 18(6):366–8, 384 (Eng. Abstr.) **(Chi)**

[The comparison of positive rates and clinical significance of 8 bronchodilator testing parameters sarcoidosis] Wang S, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Dec;18(6):363–5, 384 (Eng. Abstr.) **(Chi)**

[Asthma: facts and statistics] **J Pharm Belg** 1997 May–Jun; 52(3):127–8 **(Fre)**

[The role of leukotrienes in asthma] Sibille Y. **J Pharm Belg** 1997 May–Jun;52(3):133 **(Fre)**

[Bronchial asthma: current concepts] Bousquet J, et al. **Presse Med** 1996 Sep 7;25(25):1152–5 (25 ref.) (Eng. Abstr.) **(Fre)**

[Bronchial asthma. Physiopathology. Classic conception and new concepts] Michel FB, et al. **Presse Med** 1997 Apr 19; 26(13):621–31 (157 ref.) (Eng. Abstr.) **(Fre)**

[Interaction between tumor necrosis factor–alpha and the smooth muscle cells of the airway: implication in the physiopathology of asthma] Amrani Y, et al. **Rev Mal Respir** 1996 Dec;13(6):539–46 (49 ref.) (Eng. Abstr.) **(Fre)**

[Physiopathology of asthma: what role for leukotrienes?] Lockhart A, et al. **Rev Pneumol Clin** 1997;53(3):119–27 (79 ref.) (Eng. Abstr.) **(Fre)**

[Comparison of nasal and bronchial production of nitric oxide in healthy probands and patients with asthma] Kirsten AM, et al. **Pneumologie** 1997 Apr;51(4):359–64 (Eng. Abstr.) **(Ger)**

[Asthma and sleep in children] Leupold W. **Pneumologie** 1997 Apr;51 Suppl 2:440–3 (Eng. Abstr.) **(Ger)**

[Gastroesophageal reflux and involvement of the airways] Micklefield GH, et al. **Pneumologie** 1996 Jun;50(6):430–6 (80 ref.) **(Ger)**

[Peak–flow monitoring in asthmatic patients: indications and therapeutic implications of the measurements with reference to the 'traffic–light system' (published erratum appears in Schweiz Rundsch Med Prax 1997 Jan 14;86(3):64)] Rothe TB. **Schweiz Rundsch Med Prax** 1996 Nov 26;85(48):1542–9 (40 ref.) (Eng. Abstr.) **(Ger)**

[Leukotrienes: their significance in the pathogenesis of asthma] Bianco S. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:90S–92S (19 ref.) (Eng. Abstr.) **(Ita)**

[Changes in blood eosinophils and nonspecific bronchial reactivity after exposure tests to wheat flour and TDI] De Zotti R, et al. **Med Lav** 1996 Mar–Apr;87(2):152–61 (Eng. Abstr.) **(Ita)**

[Study of spontaneous resolution of bronchial spasm after methacholine challenge. Comparison of patients with different degree of hyperreactivity] Mannino F, et al. **Recenti Prog Med** 1997 Mar;88(3):115–9 (Eng. Abstr.) **(Ita)**

[The relationship of eosinophil viability enhancing activity in sputum and clinical symptoms in asthma] Atsuta J, et al. **Arerugi** 1996 Oct;45(10):1082–8 (Eng. Abstr.) **(Jpn)**

[Effect of long–term treatment with an inhaled corticosteroid on bronchial hyper–responsiveness and clinical asthma in asthmatic subjects] Ikuta N, et al. **Arerugi** 1996 Dec; 45(12):1231–6 (Eng. Abstr.) **(Jpn)**

[Inhibitory effect of low molecular weight heparin on the bronchoconstriction in ovalbumin–sensitized guinea pigs after antigen exposure] Maeda H, et al. **Arerugi** 1995 Nov; 44(11):1282–9 (Eng. Abstr.) **(Jpn)**

[A study of relation between pulmonary function and bronchial hypersensitivity in severe asthmatic children] Matsuda S, et al. **Arerugi** 1996 Jan;45(1):5–10 (Eng. Abstr.) **(Jpn)**

[Measurement of serum and sputum eosinophil cationic protein concentrations in asthma] Motojima S, et al. **Arerugi** 1995 Nov;44(11):1272–81 (Eng. Abstr.) **(Jpn)**

[A study on peak expiratory flow monitoring maneuver as compared to forced expiratory flow maneuver] Nagasaka Y, et al. **Arerugi** 1996 Jan;45(1):34–40 (Eng. Abstr.) **(Jpn)**

[Physiopathology of patients with asthma and the therapy] Aizawa H. **Fukuoka Igaku Zasshi** 1996 Aug;87(8):169–72 (3 ref.) **(Jpn)**

[Classification for bronchial asthma from the viewpoint of autonomic nerve function and airway hyperreactivity] Inoue H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:104–5 (Eng. Abstr.) **(Jpn)**

[Optimal time of the day for measuring peak expiratory flow rates in patients with asthma] Iwasaki Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):885–9 (Eng. Abstr.) **(Jpn)**

[Relation between the sialic acid/fucose ratio in airway secretions and the degree of airway remodeling in bronchial asthma—reversibility of airflow limitation by beta–agonists and airway remodeling in bronchial asthma] Kobayashi H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:54–8 (Eng. Abstr.) **(Jpn)**

[Hypertonic saline induced bronchoconstriction in sensitized rabbits] Morimoto R, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):545–51 (Eng. Abstr.) **(Jpn)**

[Comparison of asthma score and peak flow rate (PEF) monitoring] Okada C. **Nippon Rinsho** 1996 Nov; 54(11):2939–43 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Histopathological changes and hyperresponsiveness in asthmatic airways: relationship to peak expiratory flow] Sugiyama K, et al. **Nippon Rinsho** 1996 Nov;54(11):2944–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The brittle asthmatic and the morning dipper] Tamura G. **Nippon Rinsho** 1996 Nov;54(11):2949–55 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Function testing of bronchial responsiveness] Tohda Y, et al. **Nippon Rinsho** 1996 Nov;54(11):2903–7 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Effects of reducing or stopping inhaled beclomethasone dipropionate on airway hyperresponsiveness in stable chronic asthma] Tsukino M, et al. **Nippon Rinsho** 1996 Nov; 54(11):2982–6 (Eng. Abstr.) **(Jpn)**

[A study of gastroesophageal reflux by 24–hour esophageal pH monitoring in patients with bronchial asthma] Suzuki J, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):519–25 (Eng. Abstr.) **(Jpn)**

[An increase of nonspecific airway hyperreactivity after repeated challenge with subthreshold doses of allergen in asthma patients] Grzelewska–Rzymowska I, et al. **Pneumonol Alergol Pol** 1997;65(1–2):45–52 (Eng. Abstr.) **(Pol)**

[Circadian variation of lung function in bronchial asthma] Kowalski J, et al. **Pneumonol Alergol Pol** 1997; 65(1–2):104–12 (35 ref.) **(Pol)**

[Effect of altitude on blood oxygenation during sleep in patients with bronchial asthma] Mańkowski M, et al. **Pneumonol Alergol Pol** 1996;64(9–10):658–63 (Eng. Abstr.) **(Pol)**

[Nonspecific bronchial hyperreactivity in patients with seasonal bronchial asthma observed through two consecutive years] Kroczyńska–Bednarek J, et al. **Pol Arch Med Wewn** 1997 Mar;97(3):216–23 (Eng. Abstr.) **(Pol)**

[Adaptation of regulatory physiological systems in surgical treatment of patients with bronchial asthma] Savchenko ZI, et al. **Klin Med (Mosk)** 1996;74(7):38–9 (Eng. Abstr.) **(Rus)**

[Bronchial hyperreactivity to the inhalation of hypo– and hyperosmolar aerosols and its correction by halotherapy] Gorbenko PP, et al. **Ter Arkh** 1996;68(8):24–8 (Eng. Abstr.) **(Rus)**

[Humoral transport of the bronchi and its correction in

bronchial asthma] Osipov AK. **Ter Arkh** 1997;69(3):74–8 (37 ref.) **(Rus)**

[Premenstrual asthma: relation to hormones] Hernández Colin D, et al. **Rev Alerg Mex** 1997 Mar–Apr;44(2):35–8 (33 ref.) (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Reduced nocturnal asthma by improved nasal breathing. Petruson B, et al. **Acta Otolaryngol (Stockh)** 1996 May; 116(3):490–2

Preventive strategies for young children with wheezing bronchitis. Rylander E. **Acta Paediatr** 1997 Jun;86(6):554–6

Effects of an acaricide on mite allergen levels in the homes of asthmatic children. Chew FT, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):483–8

Clinical tolerance, parasitological efficacy and environmental effects of dehumidifiers in stable asthmatics sensitized to house dust mites. Chivato T, et al. **Allergol Immunopathol (Madr)** 1997 Mar–Apr;25(2):67–72

Control of ethyl methacrylate exposures during the application of artificial fingernails. Spencer AB, et al. **Am Ind Hyg Assoc J** 1997 Mar;58(3):214–8

Omeprazole to treat asthma? Kahrilas PJ, et al. **Am J Gastroenterol** 1996 Oct;91(10):2245–6

FDA approves zafirlukast, first of new type of asthma drug [news] **Am J Health Syst Pharm** 1996 Dec 1;53(23):2778

Attenuation of aspirin-induced bronchoconstriction by sodium cromoglycate and nedocromil sodium. Robuschi M, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1461–4

Continuous avoidance measures with or without acaricide in dust mite–allergic asthmatic children. Bahir A, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):506–12

Asthma in Australia: dawning of a public health approach [editorial] Bauman A. **Aust N Z J Public Health** 1996 Feb; 20(1):7–8

The facilitator effect: results from a four-year follow-up of children with asthma. McCowan C, et al. **Br J Gen Pract** 1997 Mar;47(416):156–60

Allergen avoidance. Custovic A, et al. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):409–12 (26 ref.)

Even young children's assessments provide useful information about asthma control. Logan S. **Child Care Health Dev** 1997 Jul;23(4):355–6

Effects of Microstop-treated anti-mite bedding on children with mite-sensitive asthma. Chen CC, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov–Dec;37(6):420–7

The respiratory effects of reduction of mite allergen in the bedrooms of asthmatic children—a double-blind controlled trial. Carswell F, et al. **Clin Exp Allergy** 1996 Apr; 26(4):386–96

Pulmonary surfactant given prophylactically alleviates an asthma attack in guinea-pigs. Liu M, et al. **Clin Exp Allergy** 1996 Mar;26(3):270–5

Der p I concentrations in mattress surface and floor dust collected from infants' bedrooms. van Strien RT, et al. **Clin Exp Allergy** 1995 Dec;25(12):1184–9

A combined approach to reduce mite allergen in the bedroom. Weeks J, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1179–83

Three steps toward better management of asthma. Li JT. **Compr Ther** 1996 Jun;22(6):345–52 (30 ref.)

Helping schoolchildren with asthma breathe easier: partnerships in community-based environmental health education. O'Neill MS. **Environ Health Perspect** 1996 May; 104(5):464–6

Prevention of asthma. Peat JK. **Eur Respir J** 1996 Jul; 9(7):1545–55 (185 ref.)

Tolerability of mofebutazone in asthmatic patients. Khayyal MT, et al. **Int J Clin Pharmacol Res** 1995;15(4):145–51

House dust mite avoidance measures improve peak flow and symptoms in patients with allergy but without asthma: a possible delay in the manifestation of clinical asthma? [see comments] Cloosterman SG, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):313–9. Comment in: J Allergy Clin Immunol 1997 Sep;100(3):290–2.

Asthma control versus asthma severity. Cockcroft DW, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1016–8 (5 ref.)

Introduction: risk management in asthma and allergic diseases. Du Buske LM. **J Allergy Clin Immunol** 1996 Dec; 98(6 Pt 3):S289–90

The Melbourne house dust mite study: eliminating house dust mites in the domestic environment. Hill DJ, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):323–9

Aspirin desensitization treatment of aspirin-sensitive patients with rhinosinusitis-asthma: long-term outcomes. Stevenson DD, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):751–8

Indoor allergens: thrill of victory or agony of defeat? [editorial; comment] Wood RA. **J Allergy Clin Immunol** 1997 Sep;100(3):290–2. Comment on: J Allergy Clin Immunol 1997 Sep;100(3):307–12. Comment on: J Allergy Clin Immunol 1997 Sep;100(3):313–9. Comment on: J Allergy Clin Immunol 1997 Sep;100(3):428–30.

Study of ipratropium bromide inhalation in stable asthma. Ailani RK, et al. **J Assoc Physicians India** 1995 Jan;43(1):36, 41

Teacher initiated improvement of asthma policy in schools. Hazell J, et al. **J Paediatr Child Health** 1995 Dec; 31(6):519–22

An educational approach to successful management of childhood asthma as a chronic illness. Baldaia L. **J Pediatr Nurs** 1996 Oct;11(5):335–6

Occupational asthma—a lawyer's view. Evans W. **J R Soc Health** 1996 Aug;116(4):229–30

A discussion of the environmental influences on asthma and the role of Environmental Health Officers in combating it. Griffiths SD. **J R Soc Health** 1996 Aug;116(4):223–9

Interaction of ozone exposure with airway hyperresponsiveness and inflammation induced by trimellitic anhydride in sensitized guinea pigs. Sun J, et al. **J Toxicol Environ Health** 1997 May;51(1):77–87

Helping city children control asthma [news] Marwick C. **JAMA** 1997 May 21;277(19):1503–4

Standards of care for acutely ill children with asthma. Andersen CL, et al. **MCN Am J Matern Child Nurs** 1996 Nov–Dec;21(6):280–7 (18 ref.)

Could parasitic infections protect aboriginal children against asthma and allergies? [letter] Prociv P. **Med J Aust** 1997 Apr 7;166(7):391–2

Zileuton for asthma. **Med Lett Drugs Ther** 1997 Feb 28; 39(995):18–9

Asthma surveillance programs in public health departments—United States. **MMWR Morb Mortal Wkly Rep** 1996 Sep 20;45(37):802–4

International guidelines and educational experiences in an out-patient clinic for asthma. Aiolfi S, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):477–81

Prevention of asthma as a public health priority [editorial] Peat JK, et al. **Monaldi Arch Chest Dis** 1995 Dec; 50(6):423–6

The impact of the COSHH regulations on workers with occupational asthma. Siriruttanapruk S, et al. **Occup Med (Oxf)** 1997 Feb;47(2):101–4

Strategies for the prevention of atopic asthma. Hide DW. **Pediatr Allergy Immunol** 1996;7(9 Suppl):117–22 (35 ref.)

Differences in the effect of allergen avoidance on bronchial hyperresponsiveness as measured by methacholine, adenosine 5'-monophosphate, and exercise in asthmatic children. Benckhuijsen J, et al. **Pediatr Pulmonol** 1996 Sep; 22(3):147–53

Short-term compliance with peak flow monitoring: results from a study of inner city children with asthma. Redline S, et al. **Pediatr Pulmonol** 1996 Apr;21(4):203–10

Outpatient management practices associated with reduced risk of pediatric asthma hospitalization and emergency department visits. Lieu TA, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):334–41

A bradykinin antagonist inhibits both bradykinin- and the allergen-induced airway response in primates. Hogan MB, et al. **Proc Assoc Am Physicians** 1997 May;109(3):269–74

Asthma. The states' challenge. Brown CM, et al. **Public Health Rep** 1997 May–Jun;112(3):198–205

Allergen avoidance measures. British Thoracic Society. Durham SR. **Respir Med** 1996 Sep;90(8):441–5

Effective asthma control—time for physician and pharmacist to join forces [letter] Morris A. **S Afr Med J** 1997 Jul; 87(7):908

Adrenal suppression with chronic dosing of fluticasone propionate compared with budesonide in adult asthmatic patients. Clark DJ, et al. **Thorax** 1997 Jan;52(1):55–8

Inhibition of allergen-induced airway obstruction and leukotriene generation in atopic asthmatic subjects by the leukotriene biosynthesis inhibitor BAYx 1005. Dahlén B, et al. **Thorax** 1997 Apr;52(4):342–7

Attenuation of early and late phase allergen-induced bronchoconstriction in asthmatic subjects by a 5-lipoxygenase activating protein antagonist, BAYx 1005. Hamilton AL, et al. **Thorax** 1997 Apr;52(4):348–54

Asthma management—a call for action [editorial; comment] Dales RE. **West J Med** 1996 Sep;165(3):157–9. Comment on: West J Med 1996 Sep;165(3):149–53.

Decreasing work disability from asthma. Harber P. **West J Med** 1996 Sep;165(3):142–3

Action plans in asthma management. Why, when, and how? [see comments] Janson S. **West J Med** 1996 Sep; 165(3):149–53. Comment in: West J Med 1996 Sep;165(3):157–9.

The Medical Outcomes Research Project Asthma Study. Berry BB, et al. **Wis Med J** 1997 Apr;96(4):58–64

[Strategy for preventing upper respiratory tract infections. Consensus of the Consulting Committee] **Allerg Immunol (Paris)** 1997 Mar;29(3):80–2 (Eng. Abstr.) **(Fre)**

[A new oral therapy for the preventive treatment of asthma. Accolate: clinical profile] Pauwels R. **J Pharm Belg** 1997 May–Jun;52(3):134 **(Fre)**

[Prevention of asthma in children] Casimir G. **Rev Med Brux** 1996 Sep;17(4):253–5 (Eng. Abstr.) **(Fre)**

[Role of education in the patient with chronic diseases: example of asthma and chronic obstructive lung disease] Uldry C, et al. **Rev Med Suisse Romande** 1997 May; 117(5):433–7 (28 ref.) **(Fre)**

[Patients with asthma of difficult control (editorial)] Pérez Martín J. **Rev Alerg Mex** 1996 Sep–Oct;43(5):106–8 **(Spa)**

PSYCHOLOGY

Perceived control of asthma: development and validation of a questionnaire. Katz PP, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):577–82

Measurement of quality of life in pediatric asthma clinical trials. Bender BG. **Ann Allergy Asthma Immunol** 1996 Dec; 77(6):438–45; quiz 446–7 (23 ref.)

Asthma and allergy avoidance knowledge and behavior in postpartum women. Joyce DP, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):35–42

Behavioral correlates of health and illness in youths with chronic illness. Frey M. **Appl Nurs Res** 1996 Nov; 9(4):167–76

Aetiology of asthma [letter] Kraemer S. **Arch Dis Child** 1997 Aug;77(2):188

Quality-of-life measures in asthma—do they matter to the GP? Gruffydd-Jones K. **Br J Gen Pract** 1997 Jun; 47(419):392–4

Differences in meanings of health: and exploratory study of general practitioners and their patients. St Claire L, et al. **Fam Pract** 1996 Dec;13(6):511–6

Perceptions of the body interior by children with asthma and children with no known chronic disease. Clarke F, et al. **Int J Nurs Stud** 1997 Jun;34(3):183–91

Fixation of asthma and sexual impotence at different pregenital stages. Adroer S. **Int J Psychoanal** 1996 Aug; 77 (Pt 4):787–802

Chronic illness and emotional distress in adolescence. Suris JC, et al. **J Adolesc Health** 1996 Aug;19(2):153–6

Perception of airway obstruction in asthma: sequential daily analyses of symptoms, peak expiratory flow rate, and mood. Apter AJ, et al. **J Allergy Clin Immunol** 1997 May; 99(5):605–12

Influence of specific emotional states on autonomic reactivity and pulmonary function in asthmatic children. Miller BD, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):669–77

What makes patients think that their pharmacists' services are of value? Nau DP, et al. **J Am Pharm Assoc (Wash)** 1997 Jan–Feb;NS37(1):91–8; discussion 90

The Revised Asthma Problem Behavior Checklist: adaptation for use in Spanish asthmatic patients. Belloch A, et al. **J Asthma** 1997;34(1):31–41

Health beliefs of adults with asthma: toward an understanding of the difference between symptomatic and preventive use of inhaler treatment. Hand CH, et al. **J Asthma** 1996; 33(5):331–8

Articulation of asthma and its care among low-income emergency care recipients. Munro JF, et al. **J Asthma** 1996; 33(5):313–25

Caring for the severely asthmatic child and family. I. The rationale for family systems integrated medical/psychological treatment. Weinstein AG, et al. **J Asthma** 1997;34(4):345–52

Childhood asthma complicated by anxiety: an application of cognitive behavioural therapy. Park SJ, et al. **J Paediatr Child Health** 1996 Apr;32(2):183–7

Conceptual and methodologic issues in quantifying perceptual accuracy in childhood asthma. Fritz GK, et al. **J Pediatr Psychol** 1996 Apr;21(2):153–73 (64 ref.)

Controlling for general and disease-specific effects in child and family adjustment to chronic childhood illness. Holden EW, et al. **J Pediatr Psychol** 1997 Feb;22(1):15–27

The influence of lung function information on self-reports of dyspnea by children with asthma. Rietveld S, et al. **J Pediatr Psychol** 1996 Jun;21(3):367–77

Alexithymia and impoverished dream recall in asthmatic patients: evidence from self-report measures. Nielsen T, et al. **J Psychosom Res** 1997 Jan;42(1):53–9

Caring for adolescents with asthma: do we know how to? [editorial; comment] Sawyer S, et al. **Med J Aust** 1996 Nov 4;165(9):463–4. Comment on: Med J Aust 1996 Nov 4;165(9):469–72.

The emotions and asthma [letter; comment] Philipp E. **N Z Med J** 1997 Jun 27;110(1046):238. Comment on: N Z Med J 1997 May 9;110(1043):159–61.

The effects of a series of volcanic eruptions on emotional and behavioural functioning in children with asthma. Ronan KR. **N Z Med J** 1997 Apr 25;110(1042):145–7

Asthma compliance and psychological factors [letter] Levine DA. **Pediatrics** 1997 Oct;100(4):731–2

Voluntary control of breathing pattern in asthmatic children. Blanc-Gras N, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1384–6

Behavioral task-induced bronchodilation in asthma during active and passive tasks: a possible cholinergic link to psychologically induced airway changes. Lehrer PM, et al. **Psychosom Med** 1996 Sep–Oct;58(5):413–22

Improving perception of air flow obstruction in asthma patients. Stout C, et al. **Psychosom Med** 1997 Mar–Apr; 59(2):201–6

Impact of the global on patient perceivable change in an asthma specific QOL questionnaire. Barber BL, et al. **Qual Life Res** 1996 Feb;5(1):117–22

Measuring quality of life in the parents of children with asthma. Juniper EF, et al. **Qual Life Res** 1996 Feb; 5(1):27–34

Measuring quality of life in children with asthma. Juniper EF, et al. **Qual Life Res** 1996 Feb;5(1):35–46

Discriminative aspects of two generic and two asthma-specific instruments: relation with symptoms, bronchodilator use and lung function in patients with mild asthma. van der Molen T, et al. **Qual Life Res** 1997 May; 6(4):353–61

Psychosocial factors and asthma. Bosley CM, et al. **Respir Med** 1996 Sep;90(8):453–7 (32 ref.)

Medication, chronic illness and identity: the perspective of

people with asthma. Adams S, et al. **Soc Sci Med** 1997 Jul;45(2):189–201

Association of anxiety with perception of histamine induced bronchoconstriction in patients with asthma. Spinhoven P, et al. **Thorax** 1997 Feb;52(2):149–52

[Extensive psychological study in managing patients with asthma] Pheulpin MC. **Rev Pneumol Clin** 1996;52(4):235–42 (Eng. Abstr.) **(Fre)**

[Psychophysiological training of rhythmic regulatory nervous processes in patients with bronchial asthma] Lovitskiĭ SV. **Fiziol Cheloveka** 1997 Jan–Feb;23(1):140–2 **(Rus)**

[The psychosomatic correlations in bronchial asthma] Berezin FB, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997; 97(4):35–8 (Eng. Abstr.) **(Rus)**

[Aggression and group dependence in asthmatic children and a control group] de Hinojosa Vallejo P, et al. **Rev Alerg Mex** 1996 May–Jun;43(3):62–5 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

High–resolution computed tomography in patients with bronchial asthma: correlation with clinical features, pulmonary functions and bronchial hyperresponsiveness. Park JW, et al. **J Investig Allergol Clin Immunol** 1997 May–Jun;7(3):186–92

Airway obstruction in asthmatic and healthy individuals: inspiratory and expiratory thin–section CT findings. Park CS, et al. **Radiology** 1997 May;203(2):361–7

[The x–ray anatomical changes in the lungs of patients with chronic obstructive bronchitis and bronchial asthma during exacerbation] Druzhinina VS, et al. **Ter Arkh** 1996; 68(6):61–4 **(Rus)**

RADIONUCLIDE IMAGING

[The possibility of evaluation on inflammatory change at respiratory tract in chronic bronchial asthma using 67Ga scintigraphy] Fukumitsu N, et al. **Kaku Igaku** 1997 May; 34(5):337–41 (Eng. Abstr.) **(Jpn)**

RADIOTHERAPY

[Changes in blood viscosity in patients with infectious–allergic form of bronchial asthma undergoing photohemotherapy with low–energy helium–neon laser] Paleev NR, et al. **Biull Eksp Biol Med** 1996 Nov; 122(11):564–7 **(Rus)**

REHABILITATION

The effects of a community–based pulmonary rehabilitation programme on exercise tolerance and quality of life: a randomized controlled trial. Cambach W, et al. **Eur Respir J** 1997 Jan;10(1):104–13

A scale for Assessing Health Care Providers' Teaching and Communication Behavior regarding asthma. Clark NM, et al. **Health Educ Behav** 1997 Apr;24(2):245–56

Individualized training reduces excessive exercise hyperventilation in asthmatics. Varray AL, et al. **Int J Rehabil Res** 1995 Dec;18(4):297–312

Asthma management by preschool children and their families: a developmental framework. Brown JV, et al. **J Asthma** 1996;33(5):299–311

Differences in follow–up visits between African American and white Medicaid children hospitalized with asthma. Ali S, et al. **J Health Care Poor Underserved** 1997 Feb; 8(1):83–98

Parental criticism and treatment outcome in adolescents hospitalized for severe, chronic asthma. Wamboldt FS, et al. **J Psychosom Res** 1995 Nov;39(8):995–1005

[Differentiation and modification of compliance with reference to topical corticoid medication in patients with bronchial asthma] Müller C, et al. **Pneumologie** 1996 Mar; 50(3):257–9 (Eng. Abstr.) **(Ger)**

[Outcome of structured asthma education in childhood and adolescence] Szczepanski R, et al. **Pneumologie** 1996 Aug; 50(8):544–8 (Eng. Abstr.) **(Ger)**

[Asthma education in the German speaking region––current status] Szczepanski R. **Pneumologie** 1996 Aug;50(8):549–50 **(Ger)**

[New aspects in the treatment of bronchial asthma and chronic obstructive lung diseases] Wyser C, et al. **Schweiz Med Wochenschr** 1997 May 24;127(21):885–90 (27 ref.) (Eng. Abstr.) **(Ger)**

[Rehabilitation in asthmatic diseases] Lübcke P. **Z Arztl Fortbild (Jena)** 1996 Oct;90(6):495–500 (17 ref.) (Eng. Abstr.) **(Ger)**

[Studies on the use of music therapy as a form of breathing exercise in bronchial asthma] Janiszewski M, et al. **Pol Merkuriusz Lek** 1996 Jul;1(1):32–3 (Eng. Abstr.) **(Pol)**

[Eosinophilic reactions in bronchial asthma patients and the possibilities to neutralize them under sanatorium treatment] Zorin VN, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):132–5 (Eng. Abstr.) **(Rus)**

[The rehabilitative treatment of children with bronchial asthma] Alymkulov DA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr; (2):13–5 (Eng. Abstr.) **(Rus)**

[The effect of interference currents on bronchial patency and bronchial hyperreactivity in children with bronchial asthma] Bykova MV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr; (2):15–8 (Eng. Abstr.) **(Rus)**

[Intravenous laser irradiation of the blood at the health–resort stage of treatment for bronchial asthma patients] Iusupalieva MM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):9–12 (Eng. Abstr.) **(Rus)**

SURGERY

[Adaptation of regulatory physiological systems in surgical treatment of patients with bronchial asthma] Savchenko ZI, et al. **Klin Med (Mosk)** 1996;74(7):38–9 (Eng. Abstr.) **(Rus)**

THERAPY

Change of chemokines during immunotherapy in asthmatic children. Chiang BL, et al. **Acta Paediatr Sin** 1996 Sep–Oct; 37(5):324–32

Production of recombinant allergens and their application for immunotherapy. Okumura Y. **Adv Exp Med Biol** 1996; 409:163–71 (6 ref.)

The efficacy of E.P.D., a new immunotherapy, in the treatment of allergic diseases in children. Caramia G, et al. **Allerg Immunol (Paris)** 1996 Nov;28(9):308–10

Effect of immunotherapy in allergic bronchial asthma. Al–Nahdi MS. **Allerg Immunol (Paris)** 1996 Jan;28(1):4–6

Rush sublingual immunotherapy in Parietaria allergic patients [published erratum appears in Allergol Immunopathol (Madr) 1996 Nov–Dec;24(6):262] D'Ambrosio FP, et al. **Allergol Immunopathol (Madr)** 1996 Jul–Aug;24(4):146–51

Specific immunotherapy in asthma: reflexions of an "old" allergist. The need for more clinical works. Panzani RC. **Allergol Immunopathol (Madr)** 1997 Jan–Feb;25(1):52–7 (18 ref.)

Guidelines for the diagnosis and management of bronchial asthma. Committee on the Definition, Treatment, and Management of Bronchial Asthma. Japanese Society of Allergology. **Allergy** 1995;50(27 Suppl):1–42 (116 ref.)

Effects of immunotherapy on symptoms, PEFR, spirometry, and airway responsiveness in patients with allergic asthma to house–dust mites (D. pteronyssinus) on inhaled steroid therapy. Costa JC, et al. **Allergy** 1996 Apr;51(4):238–44

Immunotherapy with a standardized Dermatophagoides pteronyssinus extract. V. Duration of the efficacy of immunotherapy after its cessation. Des Roches A, et al. **Allergy** 1996 Jun;51(6):430–3

A prospective safety–monitoring study of immunotherapy in mite–allergy patients with mass–units–standardized extract. González de la Cuesta C, et al. **Allergy** 1997 May; 52(5):580–3

Unconventional therapies in asthma: an overview. Lewith GT, et al. **Allergy** 1996 Nov;51(11):761–9 (105 ref.)

Economic analysis of two structured treatment and teaching programs on asthma. Neri M, et al. **Allergy** 1996 May; 51(5):313–9

Immunotherapy with standardized extract of Dermatophagoides pteronyssinus in bronchial asthma: a dose–titration study. Olaguibel JM, et al. **Allergy** 1997 Feb; 52(2):168–78

A 1–year, placebo–controlled, double–blind house–dust–mite immunotherapy study in asthmatic adults. Olsen OT, et al. **Allergy** 1997 Aug;52(8):853–9

Cost–effective management of malignant potentially fatal asthma. Levenson T, et al. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):73–8

Does allergen immunotherapy have a role in the treatment of bronchial asthma? Nelson HS. **Allergy Asthma Proc** 1997 May–Jun;18(3):157–62 (51 ref.)

Cost effectiveness of an allergy consultation in the management of asthma. Westley CR, et al. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):15–8

NHLBI issues updated guidelines for the diagnosis and management of asthma. **Am Fam Physician** 1997 Aug; 56(2):621–3

Providing asthma education in primary care practice. Stoloff SW, et al. **Am Fam Physician** 1997 Jul;56(1):117–26, 131–4, 142 (31 ref.)

Applying hypnosis in a preschool family asthma education program: uses of storytelling, imagery, and relaxation. Kohen DP, et al. **Am J Clin Hypn** 1997 Jan;39(3):169–81

Characteristics of subjects with a high frequency of emergency visits for asthma. Boulet LP, et al. **Am J Emerg Med** 1996 Nov;14(7):623–8

Patient education, early anti–inflammatory therapy are keys to better asthma care, say new federal guidelines [news] **Am J Health Syst Pharm** 1997 Apr 15;54(8):862, 867

Managing asthma: it takes teamwork. Middleton AD. **Am J Nurs** 1997 Jan;97(1):39–43

The Australian National Asthma Campaign: effects of public education activities based on mass media. Comino EJ, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):251–6

Factors associated with emergency department visits by children with asthma: implications for health education. Wasilewski Y, et al. **Am J Public Health** 1996 Oct; 86(10):1410–5

Inhibitory effects of an anti–IgE antibody E25 on allergen–induced early asthmatic response [see comments] Boulet LP, et al. **Am J Respir Crit Care Med** 1997 Jun; 155(6):1835–40. Comment in: Am J Respir Crit Care Med 1997 Jun;155(6):1825–7.

Current management of asthma patients with corticosteroid resistance. Busse WW, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S70–2; discussion S72–3 (16 ref.)

Influence on asthma morbidity of asthma education programs based on self–management plans following treatment optimization. Coté J, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1509–14

Anti–IgE therapy for asthma [editorial; comment] Demoly P, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1825–7 . Comment on: Am J Respir Crit Care Med 1997 Jun;155(6):1828–34. Comment on: Am J Respir Crit Care Med 1997 Jun;155(6):1828–34.

The effect of an anti–IgE monoclonal antibody on the early– and late–phase responses to allergen inhalation in asthmatic subjects [see comments] Fahy JV, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1828–34. Comment in: Am J Respir Crit Care Med 1997 Jun;155(6):1825–7.

Is there a role for immunotherapy in the treatment of asthma? Yes [editorial] Norman PS. **Am J Respir Crit Care Med** 1996 Nov;154(5):1225–6

Nonadherence in asthmatic patients: is there a solution to the problem? Bender B, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):177–85; quiz 185–6 (67 ref.)

Peak expiratory flow rate control chart: a breakthrough in asthma care [editorial] [see comments] Boggs PB. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):429–32. Comment in: Ann Allergy Asthma Immunol 1997 Apr;78(4):425.

Profile of children requiring emergency treatment for asthma. Friday GA Jr, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):221–4

Care of asthma: allergy clinic versus emergency room. Moore CM, et al. **Ann Allergy Asthma Immunol** 1997 Apr; 78(4):373–80

New guidelines for diagnosis and management of asthma [editorial] Sly RM. **Ann Allergy Asthma Immunol** 1997 May;78(5):427–37

Perioperative management for childhood asthma. Zachary CY, et al. **Ann Allergy Asthma Immunol** 1996 Dec; 77(6):468–72

Effect of a pediatric observation unit on the rate of hospitalization for asthma. Gouin S, et al. **Ann Emerg Med** 1997 Feb;29(2):218–22

Refractory asthma, Part 2: Airway interventions and management. Jagoda A, et al. **Ann Emerg Med** 1997 Feb; 29(2):275–81 (59 ref.)

Improving outcomes in asthma: role of pharmacy [editorial] Self TH, et al. **Ann Pharmacother** 1997 Apr;31(4):495–7

Spontaneous motility and chemotaxis of neutrophils is influenced by glycocorticosteroid therapy. Zak–Nejmark T, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):77–80

One–year experience with an inpatient asthma clinical pathway. Kwan–Gett TS, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):684–9

Teenagers with asthma [editorial] Sawyer S, et al. **Aust Fam Physician** 1996 Nov;25(11):1661

Socio–economic disadvantage, quality of medical care and admission for acute severe asthma. Kolbe J, et al. **Aust N Z J Med** 1997 Jun;27(3):294–300

Biofeedback–induced voluntary reduction of respiratory resistance in severe bronchial asthma. Mass R, et al. **Behav Res Ther** 1996 Oct;34(10):815–9

Hospital admissions for asthma in east London: associations with characteristics of local general practices, prescribing, and population. Griffiths C, et al. **BMJ** 1997 Feb 15; 314(7079):482–6

Assessing the performance of general practices caring for patients with asthma. Aveyard P. **Br J Gen Pract** 1997 Jul;47(420):423–6

Observations on the structure, process and clinical outcomes of asthma care in general practice [see comments] Neville RG, et al. **Br J Gen Pract** 1996 Oct;46(411):583–7. Comment in: Br J Gen Pract 1997 Jan;47(414):53.

Classification and management of brittle asthma. Ayres JG. **Br J Hosp Med** 1997 Apr 16–May 6;57(8):387–9 (18 ref.)

Immunosuppressive treatment in asthma. Kon OM, et al. **Br J Hosp Med** 1997 Apr 16–May 6;57(8):383–6 (20 ref.)

Asthma in pregnancy. Nelson–Piercy C, et al. **Br J Hosp Med** 1996 Feb 7–20;55(3):115–7 (38 ref.)

An asthmatic becomes hypotensive on mechanical ventilator support. **Chest** 1996 Dec;110(6):1613–4

Asthma: better outcome at lower cost? The role of the expert in the care system. Bartter T, et al. **Chest** 1996 Dec; 110(6):1589–96

Evidence–based asthma guidelines [editorial] FitzGerald JM, et al. **Chest** 1996 Dec;110(6):1382–3

Differential influences on asthma self–management knowledge and self–management behavior in acute severe asthma. Kolbe J, et al. **Chest** 1996 Dec;110(6):1463–8

The effect of volume infusion on dead space in mechanically ventilated patients with severe asthma. Manthous CA, et al. **Chest** 1997 Sep;112(3):843–6

Immunotherapy for house dust allergy. Vóna I. **Clin Otolaryngol** 1997 Feb;22(1):52–6

Controversial forms of treatment for asthma. Chanez P, et al. **Clin Rev Allergy Immunol** 1996 Fall;14(3):247–52 (26 ref.)

Alternative and complementary therapy for asthma. Gershwin ME, et al. **Clin Rev Allergy Immunol** 1996 Fall; 14(3):241–5 (0 ref.)

Update on the management of status asthmaticus. Downey P, et al. **Curr Opin Pediatr** 1996 Jun;8(3):226–33 (47 ref.)
Managing asthma with the adolescent. Rich M, et al. **Curr Opin Pediatr** 1996 Aug;8(4):301–9 (82 ref.)
National and international guidelines for the diagnosis and treatment of asthma. Nicklas RA. **Curr Opin Pulm Med** 1997 Jan;3(1):51–5 (28 ref.)
Asthma in the managed care setting. O'Brien KP. **Curr Opin Pulm Med** 1997 Jan;3(1):56–60
Alternative therapies for asthma. Ziment I. **Curr Opin Pulm Med** 1997 Jan;3(1):61–71 (93 ref.)
Asthma [editorial] Ziment I. **Curr Opin Pulm Med** 1997 Jan; 3(1):1–5
Asthma: an important disease to Otolaryngologists--part III: anti-inflammatory therapy. Gordon BR. **Ear Nose Throat J** 1996 Apr;75(4):216–24 (49 ref.)
Asthma: an important disease to otolaryngologists--Part II: Asthma management strategy. Gordon BR. **Ear Nose Throat J** 1996 Mar;75(3):136–8, 140–2 (62 ref.)
Environmental control: an idea whose time has come [editorial; comment] Becker AB, et al. **Eur Respir J** 1997 Jun;10(6):1203–4. Comment on: Eur Respir J 1997 Jun;10(6):1217–23.
Use of peak flow-based self-management plans by adult asthmatic patients [editorial] Fishwick D, et al. **Eur Respir J** 1996 May;9(5):861–5
Asthma in Greenwich, UK: impact of the disease and current management practices. Marks GB, et al. **Eur Respir J** 1997 Jun;10(6):1224–9
Comparison of guidelines and self-management plans in asthma. Meijer RJ, et al. **Eur Respir J** 1997 May; 10(5):1163–72 (45 ref.)
Asthma self-management programmes in a population of Italian children: a multicentric study. Italian Study Group on Asthma Self-Management Programmes. Ronchetti R, et al. **Eur Respir J** 1997 Jun;10(6):1248–53
Home recording of PEF in young asthmatics: does it contribute to management? Uwyyed K, et al. **Eur Respir J** 1996 May;9(5):872–9
Allergen reduction measures in houses of allergic asthmatic patients: effects of air-cleaners and allergen-impermeable mattress covers [see comments] van der Heide S, et al. **Eur Respir J** 1997 Jun;10(6):1217–23. Comment in: Eur Respir J 1997 Jun;10(6):1203–4.
Measuring quality of life for young children with asthma and their families. Osman L, et al. **Eur Respir J Suppl** 1996 Apr;21:35s–41s (39 ref.)
Gene therapy strategies for asthma. Demoly P, et al. **Gene Ther** 1997 Jun;4(6):507–16 (95 ref.)
Asthma: a six-part strategy for managing older patients. Smyrnios NA. **Geriatrics** 1997 Feb;52(2):36–40, 42–4 (25 ref.)
Management of asthma in the geriatric population. Masood D, et al. **Gerontology** 1996;42(4):183–9
Study of pulmonary and autonomic functions of asthma patients after yoga training. Khanam AA, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):318–24
Advances in the management of bronchial asthma [editorial] Landau LI. **Indian Pediatr** 1996 Jun;33(6):453–7
Therapeutic efficacy of allergen-monomethoxypolyethylene glycol conjugates in the treatment of allergen-induced asthmatic responses in guinea pigs. I-ijima H, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):323–5
Decrease in CD23+ B lymphocytes and clinical outcome in asthmatic patients receiving specific rush immunotherapy. Kljaic-Turkalj M, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):188–94
Potential therapeutic efficacy of allergen-monomethoxypolyethylene glycol conjugates for in vivo inactivation of sensitized mast cells responsible for common allergies and asthma. Lang GM, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):58–60
Fel d 1 peptides: effect on skin tests and cytokine synthesis in cat-allergic human subjects. Simons FE, et al. **Int Immunol** 1996 Dec;8(12):1937–45
A one-year prospective audit of an asthma education programme in an out-patient setting. Mulloy E, et al. **Ir Med J** 1996 Nov-Dec;89(6):226–8
Attitudes of primary care physicians to the management of asthma and their perception of its relationship to patients' work. Kahan E, et al. **Isr J Med Sci** 1996 Sep;32(9):757–62
A national census of those attending UK accident and emergency departments with asthma. The UK National Asthma Task Force. Partridge MR, et al. **J Accid Emerg Med** 1997 Jan;14(1):16–20
Asthma management in accident and emergency and the BTS guidelines--a study of the impact of clinical audit. Stell IM. **J Accid Emerg Med** 1996 Nov;13(6):392–4
Introduction: risk management in asthma and allergic diseases. Du Buske LM. **J Allergy Clin Immunol** 1996 Dec; 98(6 Pt 3):S289–90
Immunotherapy suppresses the production of monocyte chemotactic and activating factor and augments the production of IL-8 in children with asthma. Hsieh KH, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):580–7
Development and validation of a rhinoconjunctivitis and asthma symptom score for use as an outcome measure in clinical trials. Wasserfallen JB, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):16–22
Assessment of care of patients with asthma in a family practice training program. Craig TJ. **J Am Osteopath Assoc** 1996 May;96(5):305–8
The Asthma Action Plan: at the fulcrum of individualized asthma care [editorial; comment] Atkins FM. **J Asthma** 1997;34(1):1–3. Comment on: J Asthma 1997 ;34(1):5–14.
Acceptability and feasibility of a community approach to asthma management: the Neighborhood Asthma Coalition (NAC). Fisher EB Jr, et al. **J Asthma** 1996;33(6):367–83
Take control of high-cost asthma [see comments] Flaum M, et al. **J Asthma** 1997;34(1):5–14 (18 ref.). Comment in: J Asthma 1997 ;34(1):1–3.
Assessing the family asthma management system. Klinnert MD, et al. **J Asthma** 1997;34(1):77–88
Reversal of intractable acute severe asthma by first-trimester termination of pregnancy. Shanies HM, et al. **J Asthma** 1997;34(2):169–72
Assessing asthma management from interviews of patients and family physicians. Van Ganse E, et al. **J Asthma** 1997; 34(3):203–9
Pregnancy and asthma [see comments] Venkataraman MT, et al. **J Asthma** 1997;34(4):265–71 (31 ref.). Comment in: J Asthma 1997 ;34(4):263–4.
Caring for the severely asthmatic child and family. I. The rationale for family systems integrated medical/psychological treatment. Weinstein AG, et al. **J Asthma** 1997;34(4):345–52
Health care use by inner-city patients with asthma. Murray MD, et al. **J Clin Epidemiol** 1997 Feb;50(2):167–74
Predicting need for hospitalization in adults with asthma. Ebell M. **J Fam Pract** 1997 May;44(5):440–1
Desensitization therapy for asthma in allergic children. Johnson KH, et al. **J Fam Pract** 1997 May;44(5):439–40
Enzyme-potentiated desensitization in children with asthma and mite allergy: a double-blind study. Cantani A, et al. **J Investig Allergol Clin Immunol** 1996 Jul-Aug;6(4):270–6
A three-year prospective study of specific immunotherapy to inhalant allergens: evidence of safety and efficacy in 300 children with allergic asthma. Cantani A, et al. **J Investig Allergol Clin Immunol** 1997 Mar-Apr;7(2):90–7
Bacterial immunotherapy in bronchial asthma. Oehling A. **J Investig Allergol Clin Immunol** 1997 Jan-Feb;7(1):14–9 (33 ref.)
Effect of allergen specific immunotherapy (IT) on natural killer cell activity (NK), IgE, IFN-gamma levels and clinical response in patients with allergic rhinitis and asthma. Sin B, et al. **J Investig Allergol Clin Immunol** 1996 Nov-Dec;6(6):341–7
Clinical characteristics of adult asthmatics requiring intubation. Lin RY, et al. **J Med** 1995;26(5–6):261–77
Practice variations in treating urban minority asthmatics in Chicago. McDermott M, et al. **J Med Syst** 1996 Oct; 20(5):255–66
The prediction of hospital admission in children with acute asthma. Twaddell SH, et al. **J Paediatr Child Health** 1996 Dec;32(6):532–5
HELIOX in children with acute severe asthma [letter] Carter ER, et al. **J Pediatr** 1997 Aug;131(2):333–4
Management of asthma in childhood. Everard ML. **J Pharm Pharmacol** 1997 May;49 Suppl 3:45–50 (58 ref.)
An audit on hospital management of bronchial asthma. Khan JA, et al. **JPMA J Pak Med Assoc** 1995 Nov; 45(11):298–300
Practical considerations for managing asthma in adults. Patel AM, et al. **Mayo Clin Proc** 1997 Aug;72(8):749–56 (38 ref.)
Reported use of asthma management plans in South Australia [see comments] Beilby JJ, et al. **Med J Aust** 1997 Mar 17; 166(6):298–301. Comment in: Med J Aust 1997 Mar 17;166(6):287–8.
Asthma management plans: progress and problems [editorial; comment] Jenkins CR, et al. **Med J Aust** 1997 Mar 17; 166(6):287–8. Comment on: Med J Aust 1997 Mar 17;166(6):298–301.
Asthma in adults. Jenkins CR, et al. **Med J Aust** 1997 Aug 4;167(3):160–5
Caring for adolescents with asthma: do we know how to? [editorial; comment] Sawyer S, et al. **Med J Aust** 1996 Nov 4;165(9):463–4. Comment on: Med J Aust 1996 Nov 4;165(9):469–72.
Reduction in length of hospital stay for acute childhood asthma associated with the introduction of casemix funding. South M. **Med J Aust** 1997 Jul 7;167(1):11–3
Asthma: analysis of intubated patients over a one-year period. Kurohara ML, et al. **Mil Med** 1996 Sep;161(9):567–70
Are you "missing the boat" in modern asthma therapy? [see comments] Bode FR. **Mo Med** 1997 May;94(5):231–7 (11 ref.). Comment in: Mo Med 1997 Jul;94(7):311.
Allergen immunotherapy [letter; comment] Vandewalker ML. **Mo Med** 1997 Jul;94(7):311. Comment on: Mo Med 1997 May;94(5):231–7.
Management of life-threatening asthma in the emergency department. Richardson L, et al. **Mt Sinai J Med** 1997 Sep-Oct;64(4–5):275–82 (82 ref.)
A controlled trial of immunotherapy for asthma in allergic children [see comments] Adkinson NF Jr, et al. **N Engl J Med** 1997 Jan 30;336(5):324–31. Comment in: N Engl J Med 1997 Jun 26;336(26):1911; discussion 1913. Comment in: N Engl J Med 1997 Jun 26;336(26):1911–2; discussion 1913. Comment in: N Engl J Med 1997 Jun 26;336(26):1912. Comment in: N Engl J Med 1997 Jun 26;336(26);1912; discussion 1913. Comment in: N Engl J Med 1997 Jun 26;336(26):1912–3.
Immunotherapy for asthma [letter; comment] Bousquet J, et al. **N Engl J Med** 1997 Jun 26;336(26):1912; discussion 1913 . Comment on: N Engl J Med 1997 Jan 30;336(5):324–31.
Immunotherapy for asthma [letter; comment] Coifman RE. **N Engl J Med** 1997 Jun 26;336(26):1911–2; discussion 1913 . Comment on: N Engl J Med 1997 Jan 30;336(5):324–31.
Consequences of cupping [letter; comment] Dearlove O, et al. **N Engl J Med** 1997 Apr 10;336(15):1109. Comment on: N Engl J Med 1996 Oct 24;335(17):1281.
Immunotherapy for asthma [letter; comment] Des Roches A, et al. **N Engl J Med** 1997 Jun 26;336(26):1912. Comment on: N Engl J Med 1997 Jan 30;336(5):324–31.
Immunotherapy for asthma [letter; comment] Gordon BR. **N Engl J Med** 1997 Jun 26;336(26):1912; discussion 1913 . Comment on: N Engl J Med 1997 Jan 30;336(5):324–31.
Immunotherapy for asthma [letter; comment] Marinkovich VA. **N Engl J Med** 1997 Jun 26;336(26):1912–3. Comment on: N Engl J Med 1997 Jan 30;336(5):324–31.
Immunotherapy for asthma [letter; comment] Marino JT. **N Engl J Med** 1997 Jun 26;336(26):1912; discussion 1913 . Comment on: N Engl J Med 1997 Jan 30;336(5):324–31.
Immunotherapy for asthma [letter; comment] Wray BB. **N Engl J Med** 1997 Jun 26;336(26):1911; discussion 1913 . Comment on: N Engl J Med 1997 Jan 30;336(5):324–31.
Asthma: the disease and its management [see comments] Bielory L. **N J Med** 1996 Mar;93(3):158–62 (19 ref.). Comment in: N J Med 1996 May;93(5):8.
One breath at a time: treating asthma. Cornell DH. **N J Med** 1997 Aug;94(8):31–4
Asthma care [letter; comment] Yawn BP. **N J Med** 1996 Sep;93(9):10. Comment on: N J Med 1996 Mar;93(3):168–70.
Out of hours attendance for asthmatics [letter; comment] Garrett J. **N Z Med J** 1996 Sep 27;109(1030):366–7. Comment on: N Z Med J 1996 Jul 12;109(1025):254–7.
Out of hours services and asthma [letter; comment] Kljakovic M. **N Z Med J** 1996 Oct 25;109(1032):410. Comment on: N Z Med J 1996 Aug 23;109(1028):325.
IL-4 may unlock asthma and allergic diseases [news] Kling J. **Nat Biotechnol** 1997 Apr;15(4):316–7
Double-blind placebo-controlled study of sublingual immunotherapy with house dust mite extract (D.pt.) in children. Hirsch T, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):21–7
Terbutaline nebulization and epinephrine injection in treating acute asthmatic children. Lin YZ, et al. **Pediatr Allergy Immunol** 1996 May;7(2):95–9
An observational asthma study alters emergency department use: the Hawthorne effect. Zinman R, et al. **Pediatr Emerg Care** 1996 Apr;12(2):78–80
On pressure-controlled ventilation in severe asthma [letter] López-Herce J, et al. **Pediatr Pulmonol** 1996 Jun; 21(6):401–3
Improving care for minority children with asthma: professional education in public health clinics [see comments] Evans D, et al. **Pediatrics** 1997 Feb;99(2):157–64 . Comment in: Pediatrics 1997 Feb;99(2):252–4.
The Red Alert Program for life-threatening asthma. Sherman JM, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):187–91
Improving our public health system's care for children with asthma [comment] Weiss KB, et al. **Pediatrics** 1997 Feb; 99(2):252–4. Comment on: Pediatrics 1997 Feb;99(2):157–64.
Occupational asthma: a GP's guide. Burge PS. **Practitioner** 1997 Jan;241(1570):28, 32–4 (3 ref.)
Occupational asthma in a new employee. Gray P, et al. **Practitioner** 1996 Nov;240(1568):619–22, 625
Who owns the guidelines? [editorial] Holmes B. **Practitioner** 1996 Nov;240(1568):617
Managing asthma in the under twos. Paton J. **Practitioner** 1996 Oct;240(1567):576–8, 580, 582, passim (10 ref.)
The EON model of intervention protocols and guidelines. Tu SW, et al. **Proc AMIA Annu Fall Symp** 1996;:587–91
'Functional relaxation' reduces acute airway obstruction in asthmatics as effectively as inhaled terbutaline. Loew TH, et al. **Psychother Psychosom** 1996;65(3):124–8
Cytokines involved in the downregulation of allergic airway inflammation. Pretolani M, et al. **Res Immunol** 1997 Jan; 148(1):33–8 (63 ref.)
Biology of airway inflammation: from immunology to altered responsiveness. Vargaftig BB. **Res Immunol** 1997 Jan; 148(1):7–8
Definitions of severity and outcome measures. Bucknall CE. **Respir Med** 1996 Sep;90(8):447–52
Comparison of the process of care of acute severe asthma in adults admitted to hospital before and 1 yr after the publication of national guidelines. Pearson MG, et al. **Respir Med** 1996 Oct;90(9):539–45
A reliable method to retrieve accident & emergency data stored on a free-text basis. Premaratne UN, et al. **Respir Med** 1997 Feb;91(2):61–6
Prediction of the need for mechanical ventilation in acute severe asthma. de Diego A, et al. **Respiration** 1996; 63(2):73–7
New clues to asthma therapies [news] Vogel G. **Science** 1997 Jun 13;276(5319):1643–6
A repeat audit of hospital discharge letters in patients admitted with acute asthma. Mathur R, et al. **Scott Med J** 1997 Feb;42(1):19–21
A profile of acute asthma patients presenting to the emergency room. Abisheganaden J, et al. **Singapore Med J** 1996 Jun;37(3):252–4
Department audit of inpatient management of asthma [see comments] Chee CB, et al. **Singapore Med J** 1996 Aug; 37(4):370–3. Comment in: Singapore Med J 1996 Aug;37(4

):340.
Asthma practice guidelines: common sense, expert opinion or evidence based approach? [editorial; comment] Lim TK. **Singapore Med J** 1996 Aug;37(4):340–1. Comment on: Singapore Med J 1996 Aug;37(4):370–3.
Noninvasive positive pressure ventilation. Clark DR, et al. **South Med J** 1997 Jan;90(1):72–4
Intravenous immunoglobulin therapy for asthma: time for a closer look? [editorial] Corrigan CJ. **Thorax** 1997 Jul; 52(7):593–4
Impact of a nurse–led home management training programme in children admitted to hospital with acute asthma: a randomised controlled study [see comments] Madge P, et al. **Thorax** 1997 Mar;52(3):223–8. Comment in: Thorax 1997 Mar;52(3):207–8.
Preventing readmissions to hospital for asthma [editorial; comment] Mitchell EA. **Thorax** 1997 Mar;52(3):207–8. Comment on: Thorax 1997 Mar;52(3):223–8.
Who should look after asthma? [letter; comment] Pearson MG, et al. **Thorax** 1996 Sep;51(9):967. Comment on: Thorax 1995 Jun;50(6):597–9.
Anti–interleukin 5 strategies as a potential treatment for asthma. Singh AD, et al. **Thorax** 1997 May;52(5):483–5
Effects of high dose intravenous immunoglobulin in two severe corticosteroid insensitive asthmatic patients. Vrugt B, et al. **Thorax** 1997 Jul;52(7):662–4
Rush immunotherapy with house dust extract in patients with mild extrinsic asthma. Hirokawa Y, et al. **Tohoku J Exp Med** 1996 Apr;178(4):371–80
[Scandinavian guidelines for asthma. Nationalforeningen til Bekaempelse af Lungesygdomme] Dahl R, et al. **Nord Med** 1997 Apr;112(4):112–4 (0 ref.) **(Dan)**
[Acute asthma in children; guidelines by pediatric pulmonologists for diagnosis and treatment] van Nierop JC, et al. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):520–4 (Eng. Abstr.) **(Dut)**
[Severe asthma in children] Majdalani PE. **J Med Liban** 1995; 43(2):83–8 (23 ref.) **(Fre)**
[Bronchial asthma; Therapeutic management of acute severe asthma in adults (excluding mechanical ventilation)] Jaffuel D, et al. **Presse Med** 1997 Apr 19;26(13):640–5 (35 ref.) (Eng. Abstr.) **(Fre)**
[Therapeutic management of asthma: what is safe? What is new? What is being done incorrectly] **Pneumologie** 1996 Feb;50(2 Suppl):1–8 **(Ger)**
[Compliance in bronchial asthma––a problem for the patient and physician] Niggemann B, et al. **Pneumologie** 1996 Mar; 50(3):253–6 **(Ger)**
[Inhalation therapy in chronic obstructive bronchial diseases (see comments)] Barandun J. **Schweiz Med Wochenschr** 1996 Oct 5;126(40):1693–703 (46 ref.) (Eng. Abstr.). Comment in: Schweiz Med Wochenschr 1997 Mar 8;127(10):411. **(Ger)**
[A method of physical training for asthmatic children] Sugimoto H. **Arerugi** 1997 Jan;46(1):1–6 **(Jpn)**
[Physiopathology of patients with asthma and the therapy] Aizawa H. **Fukuoka Igaku Zasshi** 1996 Aug;87(8):169–72 (3 ref.) **(Jpn)**
[Characteristics of childhood asthma and guideline for its management] Iikura Y, et al. **Nippon Rinsho** 1996 Nov; 54(11):2893–6 (4 ref.) **(Jpn)**
[Guidelines for the diagnosis and management of bronchial asthma––a comparison of the Japanese guidelines for the adult asthma with GINA and ICR] Kabe J. **Nippon Rinsho** 1996 Nov;54(11):2886–92 (4 ref.) (Eng. Abstr.) **(Jpn)**
[Bronchial asthma in the elderly: special reference to pathogenesis and treatment] Kida K. **Nippon Ronen Igakkai Zasshi** 1997 Mar;34(3):180–4 (19 ref.) **(Jpn)**
[The effect of dietary fish oil supplementation on the clinical course of asthma in children] Machura E, et al. **Pediatr Pol** 1996 Feb;71(2):97–102 (Eng. Abstr.) **(Pol)**
[Interasthma in Montpellier] May KL. **Pneumonol Alergol Pol** 1996;64(11–12):851–4 **(Pol)**
[The effect of specific immunotherapy on the concentration of some chemokines in BALF in patients with atopic bronchial asthma] Jahnz–Różyk K, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):223–6 (Eng. Abstr.) **(Pol)**
[Hemosorption in intensive care treatment of severe forms of bronchial asthma in children] Repina EG, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):54–5 (Eng. Abstr.) **(Rus)**
[The results of the clinical use of plasmapheresis in patients in a "preasthma" state] Samotolkin AK. **Klin Med (Mosk)** 1996;74(2):64 **(Rus)**
[The comparative efficacy of hemosorption and xenosorption in bronchial asthma patients] Kovalenko NN, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):159–62 (Eng. Abstr.) **(Rus)**
[The clinico–immunological characteristics of the treatment of patients with a severe course of bronchial asthma using the method of the extracorporeal incorporation of pig donor spleen] Kovalenko NN, et al. **Lik Sprava** 1996 Oct–Dec;(10–12):88–91 (Eng. Abstr.) **(Rus)**
[Correction of the breathing in the treatment of bronchial asthma by means of biological feedback] Anokhin MI, et al. **Med Tekh** 1996 Jan–Feb;(1):26–9 (Eng. Abstr.) **(Rus)**
[The effect of the education of bronchial asthma patients on the course of the disease] Bulkina LS, et al. Ter **Arkh** 1996; 68(12):30–5 (91 ref.) (Eng. Abstr.) **(Rus)**
[The effect of positive end–expiratory pressure on respiratory biomechanics in bronchial asthma] Dukov LG, et al. **Ter Arkh** 1997;69(3):42–5 (Eng. Abstr.) **(Rus)**
[A bronchoscopic aid in the therapy of bronchial asthma patients with a severe course] Makolkin VI, et al. **Ter Arkh** 1996;68(4):12–5 **(Rus)**
[A comparative assessment of the clinical efficacy of standard and low–volume plasmapheresis in treating patients with bronchial asthma and chronic bronchitis] Provotorov VM, et al. **Ter Arkh** 1996;68(12):28–30 (Eng. Abstr.) **(Rus)**
[The immunotherapy of bronchial asthma with a multicomponent vaccine administered intranasally and orally] Chuchalin AK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):84–8 (Eng. Abstr.) **(Rus)**
[Education of patients with asthma, chronic bronchitis and pulmonary emphysema] Krstić–Burić M, et al. **Lijec Vjesn** 1997 Feb;119(2):60–3 (Eng. Abstr.) **(Scr)**
[Treatment protocol of infantile asthma? Letter] Pérez Santos JL. **An Esp Pediatr** 1996 Aug;45(2):227–9 **(Spa)**
[Desensitizing treatment in bronchial asthma] Duce Gracia F, et al. **Arch Bronconeumol** 1996 Oct;32(8):414–20 (57 ref.) **(Spa)**
[Treatment of asthmatic crises at a hospital emergency service. Are the protocols followed?] Rogado MC, et al. **Arch Bronconeumol** 1997 Apr;33(4):179–84 (Eng. Abstr.) **(Spa)**
[Evaluation of activities and effectiveness of an asthmatic child program developed in primary care] Díaz Vázquez CA, et al. **Aten Primaria** 1997 Mar 15;19(4):199–206 (Eng. Abstr.) **(Spa)**
[Curing asthma (editorial)] Pérez Martín J. **Rev Alerg** 1993 Mar–Apr;40(2):25–6 **(Spa)**
[Use of transfer++factor in allergic bronchial asthma] Salazar Villa RM, et al. **Rev Alerg** 1993 Mar–Apr; 40(2):42–5 (41 ref.) (Eng. Abstr.) **(Spa)**
[The importance of the correct treatment of asthma (editorial)] **Rev Alerg Mex** 1996 Nov–Dec;43(6):138 **(Spa)**
[Inhalation therapy in asthma] Gameros Gardea RA. **Rev Alerg Mex** 1996 Sep–Oct;43(5):109–15 (32 ref.) (Eng. Abstr.) **(Spa)**
[Treatment of extrinsic bronchial asthma with transfer factor] Valdés Sánchez AF, et al. **Rev Alerg Mex** 1993 Sep–Oct; 40(5):124–31 (Eng. Abstr.) **(Spa)**
[Quality assurance of asthma care within primary health care in the E–county. Fewer symptoms and emergency visits with a local care program] Dahlberg U, et al. **Lakartidningen** 1997 Sep 10;94(37):3135–9 **(Swe)**
[Poor quality of care of asthmatic patients] Lindberg M, et al. **Lakartidningen** 1997 May 7;94(19):1817–9 **(Swe)**
[Therapeutic recommendations in asthma. The specialist reads them but not allways follows them] Lötvall J, et al. **Lakartidningen** 1997 Sep 10;94(37):3140–3 **(Swe)**

URINE

Urinary eosinophil protein X in relation to disease activity in childhood asthma. Lugosi E, et al. **Allergy** 1997 May; 52(5):584–8
Urinary leukotriene E4 and 11–dehydrothromboxane B2 in patients with aspirin–sensitive asthma. Oosaki R, et al. **Allergy** 1997 Apr;52(4):470–3
Urinary N–methylhistamine in asthmatic children receiving azelastine hydrochloride. Takei S, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):492–6
Urinary nitrite/nitrate levels in children with bronchial asthma [letter] Tsukahara H, et al. **Eur J Pediatr** 1997 Aug; 156(8):667
Urinary glycosaminoglycan levels are increased in acute severe asthma––a role for eosinophil–derived gelatinase B? Shute JK, et al. **Int Arch Allergy Immunol** 1997 May–Jul; 113(1–3):366–7
[Clinical evaluation of urinary leukotriene E4 levels in asymptomatic bronchial asthma] Yamamoto H, et al. **Arerugi** 1996 Oct;45(10):1106–11 (Eng. Abstr.) **(Jpn)**
[Immunoglobulin E and eosinophils in urine of children with bronchial asthma] Puchnarewicz A, et al. **Pediatr Pol** 1996 Jan;71(1):19–24 (Eng. Abstr.) **(Pol)**

VIROLOGY

Role of nasal interleukin–8 in neutrophil recruitment and activation in children with virus–induced asthma. Teran LM, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1362–6
The role of respiratory viruses in asthma. Busse WW, et al. **Ciba Found Symp** 1997;206:208–13; discussion 213–9 (27 ref.)
Viruses in asthma. Busse WW, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):147–50 (12 ref.)
Clinical effects of nedocromil sodium on challenges invoking neuronal mechanisms and on virally induced symptoms. König P. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S135–40; discussion S140–2 (33 ref.)
Mechanisms of virus induced exacerbations of asthma. Corne JM, et al. **Thorax** 1997 Apr;52(4):380–9 (29 ref.)

ASTHMA, BRONCHIAL see **ASTHMA**

ASTHMA, CARDIAC see **DYSPNEA, PAROXYSMAL**

ASTHMA, EXERCISE–INDUCED

Exercise–induced asthma: a practical guide to definitions, diagnosis, prevalence, and treatment. Weiler JM. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):315–25 (67 ref.)
Obstructive symptoms in athletes: is it asthma and what to do about it? [editorial] Bjermer L, et al. **Respir Med** 1996 Jan;90(1):1–3
[Exercise–induced asthma (editorial)] Pérez Martín J. **Rev Alerg Mex** 1996 Jul–Aug;43(4):78–9 **(Spa)**

DIAGNOSIS

Exercise–induced asthma: update on pathophysiology, clinical diagnosis, and treatment. Randolph C. **Curr Probl Pediatr** 1997 Feb;27(2):53–77 (209 ref.)
Exercise–induced anaphylaxis after food contaminant ingestion in double–blinded, placebo–controlled, food–exercise challenge. Fiocchi A, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):424–5
The free–running asthma screening test: an approach to screening for exercise–induced asthma in rural Alabama. Heaman DJ, et al. **J Sch Health** 1997 Mar;67(3):83–8
Vocal cord dysfunction mimicking exercise–induced bronchospasm in adolescents [see comments] Landwehr LP, et al. **Pediatrics** 1996 Nov;98(5):971–4. Comment in: Pediatrics 1997 Jun;99(6):923–4.
Vocal cord dysfunction mimicking exercise–induced bronchospasm in adolescents [letter; comment] Weir M, et al. **Pediatrics** 1997 Jun;99(6):923–4. Comment on: Pediatrics 1996 Nov;98(5):971–4.
[Asthma induced by exercise] Nicolet–Chatelain G. **Rev Med Suisse Romande** 1997 Jun;117(6):465–70 (33 ref.) (Eng. Abstr.) **(Fre)**
[Clinical manifestations, diagnosis and treatment of exercise induced asthma] Liebhart J, et al. **Pneumonol Alergol Pol** 1996;64(7–8):481–8 (46 ref.) **(Pol)**
[Evaluation of hyperresponsiveness to the exercise challenge test in school children] Lis G, et al. **Pneumonol Alergol Pol** 1997;65(1–2):53–60 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Serum theophylline concentration levels and preventative effects on exercise–induced asthma. Iikura Y, et al. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:38–41
Salmeterol in exercise–induced bronchoconstriction in asthmatic children: comparison of two doses [published erratum appears in Eur Respir J 1997 Jan;10(1):256] de Benedictis FM, et al. **Eur Respir J** 1996 Oct;9(10):2099–103
Prolonged protection against exercise–induced bronchoconstriction by the leukotriene D4–receptor antagonist cinalukast. Adelroth E, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):210–5
Comparative efficacy of inhaled furosemide and disodium cromoglycate in the treatment of exercise–induced asthma in children. Melo RE, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):204–9
Tolerance to the bronchoprotective effect of salmeterol in adolescents with exercise–induced asthma using concurrent inhaled glucccorticoid treatment [see comments] Simons FE, et al. **Pediatrics** 1997 May;99(5):655–9. Comment in: Pediatrics 1997 May;99(5):729–30.
[Asthma induced by exercise] Nicolet–Chatelain G. **Rev Med Suisse Romande** 1997 Jun;117(6):465–70 (33 ref.) (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Role of neutral endopeptidase in exercise–induced bronchoconstriction in asthmatic subjects. de Gouw HW, et al. **J Appl Physiol** 1996 Aug;81(2):673–8

EPIDEMIOLOGY

Incidence of exercise–induced asthma in high school population in British Columbia. Vacek L. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):89–91
The impact of asthma in an inner city general practice. Chadwick S. **Child Care Health Dev** 1996 May;22(3):175–86
Prevalence of asthma–related symptoms and bronchial responsiveness to exercise in children aged 13–14 yrs in Barcelona, Spain. Busquets RM, et al. **Eur Respir J** 1996 Oct;9(10):2094–8
Exercise–induced bronchial hyperresponsiveness and parental ISAAC questionnaire responses. Ponsonby AL, et al. **Eur Respir J** 1996 Jul;9(7):1356–62
Exercise induced bronchospasm in Ghana: differences in prevalence between urban and rural schoolchildren. Addo Yobo EO, et al. **Thorax** 1997 Feb;52(2):161–5

ETHNOLOGY

Exercise–induced bronchoconstriction by ethnicity and presence of asthma in British nine year olds. Jones CO, et al. **Thorax** 1996 Nov;51(11):1134–6

ETIOLOGY

Exercise–induced asthma and exercise–induced gastroesophageal reflux: is there a nexus? Minocha A, et al. **Am J Gastroenterol** 1996 Dec;91(12):2628–9
Special problems of the asthmatic patient. Wallace JM, et al. **Curr Opin Pulm Med** 1997 Jan;3(1):72–9 (60 ref.)
[Exercise–induced asthma] Horie T.

Nippon Kyobu Shikkan Gakkai Zasshi 1996 Dec;34 Suppl:13–8 (24 ref.) (Eng. Abstr.) **(Jpn)**
[Pathomechanism of exercise induced bronchospasm] Dor A, et al. **Pneumonol Alergol Pol** 1996;64(7–8):489–96 (41 ref.) **(Pol)**

PATHOLOGY

Response of nose and bronchi to exercise in asthma and rhinitis: similarities and differences. Picado C.
Clin Exp Allergy 1996 May;26 Suppl 3:36–8 (9 ref.)

PHYSIOPATHOLOGY

Absence of late responses after exercise challenges in patients with mild and moderate extrinsic asthma. Arias Irigoyen J. **Allergol Immunopathol (Madr)** 1996 Jul–Aug; 24(4):169–73
Roles of calcitonin gene-related peptide (CGRP) in hyperpnea-induced constriction in guinea pigs. Nagase T, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1551–6
Effect of inhaled indomethacin on exercise-induced bronchoconstriction in children with asthma. Shimizu T, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):170–3
Effects of breathing cold and warm air on lung function and physical performance in asthmatic and nonasthmatic athletes during exercise in the cold. Sandsund M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:751–6
Occurrence of a late response to exercise in asthmatic children: multiple regression approach using time-matched baseline and histamine control days [see comments] Hofstra WB, et al. **Eur Respir J** 1996 Jul;9(7):1348–55. Comment in: Eur Respir J 1996 Jul;9(7):1335–8.
Exercise-induced asthma: is there space for late-phase reactions? [editorial; comment] Peroni DG, et al.
Eur Respir J 1996 Jul;9(7):1335–8 (46 ref.). Comment on: Eur Respir J 1996 Jul;9(7):1348–55.
The asthmatic athlete: metabolic and ventilatory responses to exercise with and without pre-exercise medication. Ienna TM, et al. **Int J Sports Med** 1997 Feb;18(2):142–8
Reduced pulmonary function in multiple food-induced, exercise-related episodes of anaphylaxis. Caffarelli C, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):762–5
Role of neutral endopeptidase in exercise-induced bronchoconstriction in asthmatic subjects. de Gouw HW, et al. **J Appl Physiol** 1996 Aug;81(2):673–8
Exercise-induced bronchoconstriction: elucidating the roles of leukotrienes and prostaglandins. O'Byrne PM.
Pharmacotherapy 1997 Jan–Feb;17(1 Pt 2):31S–38S (39 ref.)

PREVENTION & CONTROL

Duration of action of formoterol and salbutamol dry-powder inhalation in prevention of exercise-induced asthma in children. Daugbjerg P, et al. **Acta Paediatr** 1996 Jun; 85(6):684–7
Comparative study of inhaled amiloride and inhaled furosemide in exercise-induced asthma. Larramendi CH, et al. **Allergol Immunopathol (Madr)** 1997 Mar–Apr; 25(2):85–90
Exercise-induced asthma prophylaxis in athletes using inhaled nedocromil sodium. Valero A, et al.
Allergol Immunopathol (Madr) 1996 Mar–Apr;24(2):81–6
The free running athletic screening test as a screening test for exercise-induced asthma in high school. Randolph C, et al. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):93–8
Proventil HFA provides protection from exercise-induced bronchoconstriction comparable to proventil and ventolin. Dockhorn RJ, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):85–8
Blocking effect of vitamin C in exercise-induced asthma. Cohen HA, et al. **Arch Pediatr Adolesc Med** 1997 Apr; 151(4):367–70
Serum theophylline concentration levels and preventative effects on exercise-induced asthma. Iikura Y, et al.
Clin Exp Allergy 1996 Mar;26 Suppl 2:38–41
Change in osmolarity of disodium cromoglycate solution and protection against exercise-induced bronchospasm in children with asthma. Kano S, et al. **Eur Respir J** 1996 Sep;9(9):1891–5
Prolonged protection against exercise-induced bronchoconstriction by the leukotriene D4-receptor antagonist cinalukast. Adelroth E, et al.
J Allergy Clin Immunol 1997 Feb;99(2):210–5

THERAPY

Exercise-induced asthma: update on pathophysiology, clinical diagnosis, and treatment. Randolph C.
Curr Probl Pediatr 1997 Feb;27(2):53–77 (209 ref.)

ASTHMATIC CRISIS see **STATUS ASTHMATICUS**

ASTHMATIC SHOCK see **STATUS ASTHMATICUS**

ASTIGMATISM

Demonstrating astigmatism [letter] Harvey PA. **Eye** 1996;10 (Pt 6):750
Scalar representation of astigmatism [letter] Rabbetts RB.
Ophthalmic Physiol Opt 1996 May;16(3):257–63
[How to evaluate surgically induced astigmatism] Roman S, et al. **J Fr Ophtalmol** 1997;20(3):241–5 **(Fre)**

COMPLICATIONS

Crohn's colitis and the cornea. Geerards AJ, et al.
Cornea 1997 Mar;16(2):227–31
Astigmatic refractive errors associated with limbal dermoids. Robb RM. **J Pediatr Ophthalmol Strabismus** 1996 Jul–Aug; 33(4):241–3
Astigmatism and corneal curvature [letter] Colin J, et al.
J Refract Surg 1996 Jan–Feb;12(1):7
Posterior polymorphous dystrophy associated with astigmatism and amblyopia in children. DeRespinis PA, et al. **J Refract Surg** 1996 Sep–Oct;12(6):709–14

DIAGNOSIS

Determination of the influence of effectivity upon residual astigmatism. Dunne MC, et al. **Acta Ophthalmol Scand** 1997 Apr;75(2):170–3
Ocular findings in children operated on for plagiocephaly and trigonocephaly. Denis D, et al. **Childs Nerv Syst** 1996 Nov;12(11):683–9
A comparison of three subjective tests for astigmatism and their interexaminer reliabilities. Johnson BL, et al.
J Am Optom Assoc 1996 Oct;67(10):590–8
Correlation between polar values and vector analysis. Naeser K, et al. **J Cataract Refract Surg** 1997 Jan–Feb;23(1):76–81
Multivariate analysis versus vector analysis to assess surgically induced astigmatism [see comments] Toulemont PJ. **J Cataract Refract Surg** 1996 Sep;22(7):977–82. Comment in: J Cataract Refract Surg 1997 Mar;23(2):149.
Measurement of irregular astigmatism using semimeridian data from videokeratographs. Borderie VM, et al.
J Refract Surg 1996 Jul–Aug;12(5):595–600
Measurement of astigmatism by automated infrared photoretinoscopy. Gekeler F, et al. **Optom Vis Sci** 1997 Jul;74(7):472–82
[A clinical report on mixed astigmatism] Xu G, et al.
Chung Hua Yen Ko Tsa Chih 1996 Mar;32(2):126–9 (Eng. Abstr.) **(Chi)**
[Modification of axial length and astigmatism by scleral buckling surgery] Grimm G, et al.
Klin Monatsbl Augenheilkd 1997 Mar;210(3):144–6 (16 ref.) (Eng. Abstr.) **(Ger)**
[Effect of strabismus operation of corneal topography] Schworm HD, et al. **Klin Monatsbl Augenheilkd** 1996 Nov; 209(5):275–82 (Eng. Abstr.) **(Ger)**
[Comparison of classical keratometry and computer-assisted corneal topography in high grade postoperative astigmatism after perforating keratoplasty] Weindler J, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep; 209(2–3):105–8 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Corneal astigmatism in preschool Native Americans [see comments] Maples WC, et al. **J Am Optom Assoc** 1997 Feb;68(2):87–94. Comment in: J Am Optom Assoc 1997 Jul;68(7):412.
Validity of surveys reporting myopia, astigmatism, and presbyopia. Walline JJ, et al. **Optom Vis Sci** 1996 Jun; 73(6):376–81

ETHNOLOGY

Astigmatism in Bangladeshi and white school entrants in East London: a prospective comparative study. Fuller JR, et al. **Eye** 1995;9 (Pt 6):794–6
Corneal astigmatism in native American children [letter; comment] Kershner RM. **J Am Optom Assoc** 1997 Jul; 68(7):412. Comment on: J Am Optom Assoc 1997 Feb;68(2):87–94.
Distribution of astigmatism among Sioux Indians in South Dakota. Pensyl CD, et al. **J Am Optom Assoc** 1997 Jul; 68(7):425–31

ETIOLOGY

Comparison of astigmatism after penetrating keratoplasty by experienced cornea surgeons and cornea fellows. Gross RH, et al. **Am J Ophthalmol** 1997 May;123(5):636–43
The annular tinted contact lens syndrome: corneal topographic analysis of ring-shaped irregular astigmatism caused by annular tinted contact lenses. Bucci FA Jr, et al. **CLAO J** 1997 Jul;23(3):161–7
Surgically induced astigmatism after manual extracapsular cataract extraction or after phacoemulsification procedure. Cavallini GM, et al. **Eur J Ophthalmol** 1996 Jul–Sep; 6(3):257–63
Natural and imposed astigmatism and their relation to emmetropization in the chick. Schmid K, et al.
Exp Eye Res 1997 May;64(5):837–47
Astigmatism decay immediately following suture removal. Potamitis T, et al. **Eye** 1997;11 (Pt 1):84–6
Postoperative astigmatism and relative strength of tunnel incisions: a prospective clinical trial. Anders N, et al.
J Cataract Refract Surg 1997 Apr;23(3):332–6
Corneal topography and astigmatism after superior sutured 8 mm scleral tunnel incisions. Bellucci R, et al.
J Cataract Refract Surg 1996 Jul–Aug;22(6):690–5
Temporal versus superior approach phacoemulsification: short-term postoperative astigmatism. Cillino S, et al.
J Cataract Refract Surg 1997 Mar;23(2):267–71
Computer-assisted videokeratography to measure changes in astigmatism induced by sutureless cataract surgery. Joo CK, et al. **J Cataract Refract Surg** 1997 May;23(4):555–61
Corneal shape changes and astigmatic aspects of scleral and corneal tunnel incisions [editorial] Kohnen T.
J Cataract Refract Surg 1997 Apr;23(3):301–2
Astigmatism after phacoemulsification with adjusted and unadjusted sutured versus sutureless 5.2 mm superior scleral incisions. Lyhne N, et al. **J Cataract Refract Surg** 1996 Nov;22(9):1206–10
Multivariate versus vector analysis [letter; comment] Nielsen PJ. **J Cataract Refract Surg** 1997 Mar;23(2):149. Comment on: J Cataract Refract Surg 1996 Sep;22(7):977–82.
Corneal versus scleral tunnel incision in cataract surgery: a randomized study. Olsen T, et al.
J Cataract Refract Surg 1997 Apr;23(3):337–41
Corneal astigmatism after clear corneal and corneoscleral incisions for cataract surgery. Poort-van Nouhuijs HM, et al. **J Cataract Refract Surg** 1997 Jun;23(5):758–60
Surgically induced astigmatism following a 4.0 mm sclerocorneal valve incision. Rainer G, et al.
J Cataract Refract Surg 1997 Apr;23(3):358–64
Lenticular astigmatism after penetrating eye injury. Rumelt S, et al. **J Cataract Refract Surg** 1996 Sep;22(7):994–6
Two-incision radial keratotomy for low myopia with astigmatism. Suarez E, et al. **J Cataract Refract Surg** 1997 May;23(4):502–8
Effects of strabismus surgery on corneal topography. Nardi M, et al. **J Pediatr Ophthalmol Strabismus** 1997 Jul–Aug; 34(4):244–6
Slipped flap, irregular astigmatism, and undercorrection after automated lamellar keratoplasty [published erratum appears in J Refract Surg 1996 Sep–Oct;12(6):676]
J Refract Surg 1996 Jul–Aug;12(5):645–8
Transient central corneal steepening after radial keratotomy. Buzard KA, et al. **J Refract Surg** 1996 May–Jun;12(4):520–4
Holmium:YAG laser thermokeratoplasty for astigmatism in rabbits. Lim KH, et al. **J Refract Surg** 1996 Jan–Feb; 12(1):190–3
Relationships between preoperative astigmatism and corneal optical power, axial length, intraocular pressure, gender, and patient age. Ninn-Pedersen K. **J Refract Surg** 1996 May–Jun;12(4):472–82
Frequency of induced astigmatism following phacoemulsification with suturing versus without suturing. Mendivil A. **Ophthalmic Surg Lasers** 1997 May; 28(5):377–81
Astigmatic shift following sutureless, triplanar, curvilinear, single hinge, clear corneal incision for phacoemulsification and intraocular lens implantation. Sajjadi H, et al.
Ophthalmic Surg Lasers 1996 Oct;27(10):844–8
Corneal shape changes after scleral buckling surgery. Hayashi H, et al. **Ophthalmology** 1997 May;104(5):831–7
Resolution of astigmatism after surgical resection of capillary hemangiomas in infants. Plager DA, et al.
Ophthalmology 1997 Jul;104(7):1102–6
Astigmatism induced by spherical photorefractive keratectomy corrections. Shah S, et al. **Ophthalmology** 1997 Aug;104(8):1317–20
[Astigmatism caused by superior and temporal corneal incisions in cataract surgery] Roman S, et al.
J Fr Ophtalmol 1997;20(4):277–83 (Eng. Abstr.) **(Fre)**
[Regularity of corneal topography after penetrating keratoplasty--comparison between non-mechanical (excimer laser 193 nm) and mechanical trepanation] Langenbucher A, et al. **Klin Monatsbl Augenheilkd** 1996 Jun;208(6):450–8; discussion 450 (Eng. Abstr.) **(Ger)**
["Central islands"--an early postoperative complication after photorefractive keratectomy] Schmidt-Petersen H, et al. **Klin Monatsbl Augenheilkd** 1996 Jun;208(6):423–7 (Eng. Abstr.) **(Ger)**
[Long-term prospective study of the development of corneal astigmatism in no-stitch cataract surgery] Anders N, et al. **Ophthalmologe** 1997 Jul;94(7):506–8 (Eng. Abstr.) **(Ger)**
[Outcome of corneal astigmatism after pars plana vitrectomy with or without simultaneous cataract extraction] Eckert T, et al. **Ophthalmologe** 1996 Feb;93(1):38–44 (Eng. Abstr.) **(Ger)**
[Vector analysis of surgically-induced astigmatism in cataract operation with 4 tunnel incision techniques] Haubrich T, et al. **Ophthalmologe** 1996 Feb;93(1):12–6 (Eng. Abstr.) **(Ger)**
[Corneal astigmatism after tunnel incision for cataract extraction] Skubiszewska T, et al. **Klin Oczna** 1996; 98(6):429–32 (Eng. Abstr.) **(Pol)**

PATHOLOGY

Computer-assisted videokeratography to measure changes in astigmatism induced by sutureless cataract surgery. Joo CK, et al. **J Cataract Refract Surg** 1997 May;23(4):555–61
Ultrastructural and immunohistochemical findings after linear excimer laser keratectomy. Winter M, et al.
J Refract Surg 1997 Jan–Feb;13(1):60–8

PHYSIOPATHOLOGY

Visual performance after photorefractive keratectomy. A prospective study. Verdon W, et al. **Arch Ophthalmol** 1996 Dec;114(12):1465–72
Visual function in velocardiofacial syndrome. Kok LL, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):53–5
Relation of hormone and menopausal status to outcomes following excimer laser photorefractive keratectomy in women. Melbourne Excimer Laser Group. McCarty CA,

et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):215–22

Comparative study of astigmatism through superior and lateral small incisions. Mendivil A. **Eur J Ophthalmol** 1996 Oct–Dec;6(4):389–92

Astigmatic stabilization of 3.0 mm temporal clear corneal cataract incisions. Masket S, et al. **J Cataract Refract Surg** 1996 Dec;22(10):1451–5

Long–term astigmatic changes after clear corneal cataract surgery. Müller–Jensen K, et al. **J Cataract Refract Surg** 1997 Apr;23(3):354–7

Astigmatic change 1 year after excimer laser treatment of myopia and myopic astigmatism. Melbourne Excimer Laser Group. Tabin GC, et al. **J Cataract Refract Surg** 1996 Sep; 22(7):924–30

Benefit of against–the–rule astigmatism to uncorrected near acuity. Trindade F, et al. **J Cataract Refract Surg** 1997 Jan–Feb;23(1):82–5

Effect of incision location on preoperative oblique astigmatism after scleral tunnel incision. Wirbelauer C, et al. **J Cataract Refract Surg** 1997 Apr;23(3):365–71

Predictable and unpredictable parameters of photorefractive keratectomy. Jourdan T. **J Refract Surg** 1997 Aug;13(5 Suppl):S463–4

Resolution of astigmatism after surgical resection of capillary hemangiomas in infants. Plager DA, et al. **Ophthalmology** 1997 Jul;104(7):1102–6

Wavefronts and their propagation in astigmatic optical systems. Harris WF. **Optom Vis Sci** 1996 Sep;73(9):606–12 (31 ref.)

The relation between corneal and total astigmatism. Keller PR, et al. **Optom Vis Sci** 1996 Feb;73(2):86–91

Oblique (off–axis) astigmatism of the reduced schematic eye with elliptical refracting surface. Wang YZ, et al. **Optom Vis Sci** 1997 Jul;74(7):557–62

[The relations of corneal, lenticular and total astigmatism] Liang D, et al. **Yen Ko Hsueh Pao** 1995 Jun;11(2):70–2 (Eng. Abstr.) **(Chi)**

[Effect of corneal astigmatism on contrast sensitivity in mono– and multifocal pseudophakia––a theoretical study of the physical eye] Eisenmann D, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep;209(2–3):125–31 (Eng. Abstr.) **(Ger)**

[Visual acuity in astigmatic subjects and their fitness for service in the Air Force] Rota P, et al. **Riv Med Aeronaut Spaz** 1975 Jan–Mar;38(1):21–6 (Eng. Abstr.) **(Ita)**

PREVENTION & CONTROL

Comparison of suture–in and suture–out postkeratoplasty astigmatism with single running suture or combined running and interrupted sutures [see comments] Filatov V, et al. **Am J Ophthalmol** 1996 Nov;122(5):696–700. Comment in: Am J Ophthalmol 1997 May;123(5):715–6.

Comparison of suture–in and suture–out postkeratoplasty astigmatism with single running suture or combined running and interrupted sutures [letter; comment] Naumann GO. **Am J Ophthalmol** 1997 May;123(5):715–6. Comment on: Am J Ophthalmol 1996 Nov;122(5):696–700.

Post–operative astigmatism control by selective suture removal. Churchill AJ, et al. **Eye** 1996;10 (Pt 1):103–6

Elastic polypropylene suture in cataract surgery: long–term follow–up. O Driscoll AM, et al. **Eye** 1996;10 (Pt 1):99–102

Astigmatism reduction: no–stitch 4.0 mm versus sutured 12.0 mm clear corneal incisions. Müller–Jensen K, et al. **J Cataract Refract Surg** 1996 Oct;22(8):1108–12

Optimum form of posterior chamber intraocular lenses to minimize aberrational astigmatism. Takei K, et al. **Jpn J Ophthalmol** 1995;39(4):390–401

Corneal topography after selective suture removal for astigmatism following keratoplasty. Goren MB, et al. **Ophthalmic Surg Lasers** 1997 Mar;28(3):208–14

Evaluation of 6.5–mm BENT incision to reduce postoperative astigmatism. Nagata S, et al. **Ophthalmologica** 1996;210(4):207–10

Randomized clinical trial of penetrating keratoplasty. Before and after suture removal comparison of intraoperative and postoperative suture adjustment. Serdarevic ON, et al. **Ophthalmology** 1995 Oct;102(10):1497–503

The efficacy of a single continuous nylon suture for control of post keratoplasty astigmatism. Van Meter W. **Trans Am Ophthalmol Soc** 1996;94:1157–80

[Reduction of induced corneal astigmatism after IOL implantation by small incision technique] Liu Y, et al. **Yen Ko Hsueh Pao** 1995 Dec;11(4):202–4 (Eng. Abstr.) **(Chi)**

[Minimizing astigmatism by controlled localization of cataract approach with the no stitch technique. A prospective study] Volkmer C, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep;209(2–3):100–4 (Eng. Abstr.) **(Ger)**

[Factors modifying postoperative astigmatism after no–stitch cataract surgery] Anders N, et al. **Ophthalmologe** 1997 Jan; 94(1):6–11 (Eng. Abstr.) **(Ger)**

SURGERY

Experiences with photorefractive excimer laser treatment in compound myopic astigmatism. Nagy ZZ, et al. **Acta Chir Hung** 1995–96;35(3–4):333–8

Undercorrection after excimer laser refractive surgery. Excimer Laser Group. Vajpayee RB, et al. **Am J Ophthalmol** 1996 Dec;122(6):801–7

Autorefraction/autokeratometry and subjective refraction in untreated and photorefractive keratectomy–treated eyes. Oyo–Szerenyi KD, et al. **Arch Ophthalmol** 1997 Feb; 115(2):157–64

Laser intrastromal keratomileusis for high myopia and myopic astigmatism. Condon PI, et al. **Br J Ophthalmol** 1997 Mar;81(3):199–206

Photoastigmatic keratectomy for correction of astigmatism in corneal grafts. Tuunanen TH, et al. **Cornea** 1997 Jan; 16(1):48–53

Cyanoacrylate glue treatment for persistent aqueous leak following postkeratoplasty relaxing incisions with compression sutures. Karabatsas CH, et al. **Doc Ophthalmol** 1996–97;92(2):93–6

Compound myopic astigmatism correction using a mask in–the–rail excimer laser delivery system. Preliminary results. Carones F, et al. **Eur J Ophthalmol** 1996 Jul–Sep; 6(3):221–33

The early results of excimer laser photorefractive keratectomy for compound myopic astigmatism. Horgan SE, et al. **Eur J Ophthalmol** 1996 Apr–Jun;6(2):113–20

Excimer laser photorefractive keratectomy (PRK) in myopic astigmatism. Tasindi E, et al. **Eur J Ophthalmol** 1996 Apr–Jun;6(2):121–4

Photorefractive keratectomy for correction of astigmatism after penetrating keratoplasty. Deschênes J, et al. **Int Ophthalmol Clin** 1996 Fall;36(4):113–8

"Designer surgery" in the correction of astigmatism and hyperopia. Rocha G, et al. **Int Ophthalmol Clin** 1996 Fall; 36(4):79–88

LASIK for correction of hyperopia and hyperopia with astigmatism. Suarez E, et al. **Int Ophthalmol Clin** 1996 Fall; 36(4):65–72 (9 ref.)

Refractive surgery for myopic and hyperopic astigmatism. Thompson V. **Int Ophthalmol Clin** 1997 Winter;37(1):37–49 (16 ref.)

Consultation section. Refractive surgical problem. **J Cataract Refract Surg** 1997 Jul–Aug;23(6):824–7

Consultation section. Advise for improving uncorrected acuity in an eye 10 years after a combined RK and AK. **J Cataract Refract Surg** 1996 Dec;22(10):1395–400

Dilute ethanol versus mechanical debridement before photorefractive keratectomy. Abad JC, et al. **J Cataract Refract Surg** 1996 Dec;22(10):1427–33

New method of targeting vectors to treat astigmatism. Alpins NA. **J Cataract Refract Surg** 1997 Jan–Feb;23(1):65–75

Correcting postoperative astigmatism using curved lamellating keratotomy. Anders N, et al. **J Cataract Refract Surg** 1997 Mar;23(2):196–201

Clinical results of arcuate incisions to correct astigmatism. Buzard KA, et al. **J Cataract Refract Surg** 1996 Oct; 22(8):1062–9

Radial and astigmatic keratotomy experience by residents and fellows at a teaching institution. Couvillion JT, et al. **J Cataract Refract Surg** 1997 Jan–Feb;23(1):59–64

Effect of incision direction on refractive outcome after radial keratotomy. Flanagan GW, et al. **J Cataract Refract Surg** 1996 Sep;22(7):915–23

Compression keratoplasty [letter; comment] Fugo RJ. **J Cataract Refract Surg** 1996 Nov;22(9):1131–2. Comment on: J Cataract Refract Surg 1996 Apr;22(3):283–7. Comment on: J Cataract Refract Surg 1996 Apr;22(3):304–6.

Excimer laser photorefractive keratectomy to correct astigmatism. Gallinaro C, et al. **J Cataract Refract Surg** 1996 Jun;22(5):557–63

Optical zone size [letter] Gills JP, et al. **J Cataract Refract Surg** 1996 Jul–Aug;22(6):651

Vector analysis of residual cylinder [letter] Goggin M. **J Cataract Refract Surg** 1996 Sep;22(7):872–3

Optical zone size [letter] Hall GW. **J Cataract Refract Surg** 1996 Nov;22(9):1130

Evaluation of bidirectional radial and astigmatic keratotomy. Kershner RM. **J Cataract Refract Surg** 1996 Jun; 22(5):564–7

Arcuate keratotomy to correct naturally occurring astigmatism. Kwitko ML, et al. **J Cataract Refract Surg** 1996 Dec;22(10):1439–42

Natural history of central topographic islands following excimer laser photorefractive keratectomy. McGhee CN, et al. **J Cataract Refract Surg** 1996 Nov;22(9):1151–8

Endophthalmitis after astigmatic myopic laser in situ keratomileusis. Mulhern MG, et al. **J Cataract Refract Surg** 1997 Jul–Aug;23(6):948–50

Two–incision radial keratotomy for low myopia with astigmatism. Suarez E, et al. **J Cataract Refract Surg** 1997 May;23(4):502–8

Astigmatic change 1 year after excimer laser treatment of myopia and myopic astigmatism. Melbourne Excimer Laser Group. Tabin GC, et al. **J Cataract Refract Surg** 1996 Sep; 22(7):924–30

Excimer photorefractive keratectomy for low myopia and astigmatism with the Coherent–Schwind Keratom. Vidaurri–Leal JS, et al. **J Cataract Refract Surg** 1996 Oct; 22(8):1052–61

Laser in situ keratomileusis for astigmatism and myopia after penetrating keratoplasty. Arenas E, et al. **J Refract Surg** 1997 Jan–Feb;13(1):27–32

Photorefractive keratectomy for compound myopic astigmatism with an eye cup erodible mask delivery system. Brancato R, et al. **J Refract Surg** 1996 May–Jun; 12(4):501–10

Hot needle thermal keratoplasty to correct naturally occurring hyperopic astigmatism. Charpentier DY, et al. **J Refract Surg** 1996 Sep–Oct;12(6):705–8

Seasonal variations in refractive results following excimer laser photorefractive keratectomy. Chatterjee A, et al. **J Refract Surg** 1997 Aug;13(5 Suppl):S447–9

Astigmatism and corneal curvature [letter] Colin J, et al. **J Refract Surg** 1996 Jan–Feb;12(1):7

Photorefractive keratectomy for hyperopic and mixed astigmatism. Dausch DG, et al. **J Refract Surg** 1996 Sep–Oct;12(6):684–92

Photoastigmatic refractive keratectomy for compound myopic astigmatism with a Nidek laser. Goggin MJ, et al. **J Refract Surg** 1997 Mar–Apr;13(2):162–6

Comparison of intersecting trapezoidal keratotomy and arcuate transverse keratotomy in the correction of high astigmatism. Harto MA, et al. **J Refract Surg** 1996 Jul–Aug; 12(5):585–94

Retrephination keratoplasty for high astigmatism after penetrating keratoplasty. Krueger RR, et al. **J Refract Surg** 1996 Nov–Dec;12(7):806–8

Improved technique of circular keratotomy for the correction of corneal astigmatism. Krumeich JH, et al. **J Refract Surg** 1997 May–Jun;13(3):255–62

Effect of variations in surgical technique and patient management on outcomes of photorefractive keratectomy. Melbourne Excimer Laser Group. McCarty CA, et al. **J Refract Surg** 1997 Jan–Feb;13(1):55–9

Photorefractive keratectomy for myopia and photoastigmatic keratectomy for astigmatism. Ohashi Y, et al. **J Refract Surg** 1997 Aug;13(5 Suppl):S452–3

Arcuate transverse keratotomy for astigmatism followed by subsequent radial or transverse keratotomy. ARC–T Study Group. Astigmatism Reduction Clinical Trial. Price FW Jr, et al. **J Refract Surg** 1996 Jan–Feb;12(1):68–76

Double clear zone photorefractive keratectomy to correct compound myopic astigmatism. Vinciguerra P, et al. **J Refract Surg** 1997 Aug;13(5 Suppl):S450

Hexagonal keratotomy––should we still be trying? [see comments] Werblin TP. **J Refract Surg** 1996 Jul–Aug; 12(5):613–7; discussion 617–20. Comment in: J Refract Surg 1997 Mar–Apr;13(2):128.

Excimer laser keratectomy for astigmatism after PK [letter; comment] Alpins N. **Ophthalmology** 1996 Dec; 103(12):1985–6. Comment on: Ophthalmology 1996 Mar;103(3):458–64.

Clear corneal cataract surgery and the correction of myopia, hyperopia, and astigmatism. Kershner RM. **Ophthalmology** 1997 Mar;104(3):381–9

One–year results of a prospective multicenter study of the Casebeer system of refractive keratotomy. Casebeer Chiron Study Group. Waring GO 3rd, et al. **Ophthalmology** 1996 Sep;103(9):1337–47

[Excimer laser photorefractive keratectomy in myopia and astigmatism––1 year experience] Autrata R, et al. **Cesk Slov Oftalmol** 1995 Oct;51(5):277–83 (Eng. Abstr.) **(Cze)**

[Surgical treatment of astigmatism caused by penetrating keratoplasty using the Hanna arcuate keratome] Chastang P, et al. **J Fr Ophtalmol** 1997;20(5):360–5 (Eng. Abstr.) **(Fre)**

[Corneal astigmatism after pterygium excision and subsequent phototherapeutic keratectomy with the excimer laser (193 rm)] Walkow T, et al. **Klin Monatsbl Augenheilkd** 1996 Oct;209(4):199–204 (Eng. Abstr.) **(Ger)**

[Is cranial corneoscleral 6 mm "no–stitch" tunnel incision contraindicated in against–the–rule astigmatism?] Weindler J, et al. **Klin Monatsbl Augenheilkd** 1996 Jun;208(6):428–30 (Eng. Abstr.) **(Ger)**

[Excimer laser method for correction of vision disorders. A chance for life without eyeglasses?] Huber I. **Med Monatsschr Pharm** 1996 Dec;19(12):365–70 (15 ref.) **(Ger)**

[Corneal topography after cataract surgery with tunnel incision on a steeper meridian in inverse and oblique astigmatism] Heider W, et al. **Ophthalmologe** 1997 Jan; 94(1):16–9 (Eng. Abstr.) **(Ger)**

[Refractive laser surgery of the cornea] Kaminski S, et al. **Wien Med Wochenschr** 1997;147(12–13):302–7 (48 ref.) (Eng. Abstr.) **(Ger)**

[Results of photorefractive keratectomy for myopic astigmatism] Kremer I, et al. **Harefuah** 1996 Aug; 131(3–4):73–6, 144 (Eng. Abstr.) **(Heb)**

[The incision in the surgery of cataract and postoperative astigmatism] Spineanu L. **Oftalmologia** 1997;41(1):53–6 (Eng. Abstr.) **(Rum)**

[Interlamellar sectoral keratoplasty in the surgical correction of astigmatism] Frolov MA, et al. **Vestn Oftalmol** 1996 Apr–Jun;112(2):15–8 (Eng. Abstr.) **(Rus)**

THERAPY

Corneal curvature changes in soft and rigid gas permeable contact lens wearers after two years of lens wear. Sanaty M, et al. **CLAO J** 1996 Jul;22(3):186–8

Spectacle lenses which correct oblique astigmatism at all ocular rotations: investigation of "Merté's' conicoidal surfaces. Atchison DA, et al. **Ophthalmic Physiol Opt** 1996 Sep;16(5):438–46

Ray vector fields, prismatic effect, and thick astigmatic optical systems. Harris WF. **Optom Vis Sci** 1996 Jun; 73(6):418–23 (14 ref.)

Equivalent dioptric power asymmetry relations for thick

astigmatic systems [see comments] Keating MP. **Optom Vis Sci** 1997 Jun;74(6):388–92 (11 ref.). Comment in: Optom Vis Sci 1997 Jun;74(6):339–41.
[Early correction of hyperopia and astigmatism in children leads to better development of visual acuity] Friedburg D, et al. **Klin Monatsbl Augenheilkd** 1996 Jul;209(1):21–4 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Complications of misdiagnosed and inadequately treated necrotizing scleritis studied by ultrasound biomicroscopy and computerized corneal topography. Meller D, et al. **Int Ophthalmol** 1997;21(1):35–7
Ultrasound biomicroscopy of tangential keratotomy incision depth after penetrating keratoplasty. Kaminski S, et al. **J Cataract Refract Surg** 1997 Jan–Feb;23(1):54–8

ASTRAGALUS see **TALUS**

ASTRINGENTS

ADVERSE EFFECTS

Astringent subqualities in acids. Thomas CJ, et al. **Chem Senses** 1995 Dec;20(6):593–600

ANALYSIS

Development and validation of a flow–injection method for the determination of albumin tannate, the active component of a pharmaceutical preparation. Gámiz Gracia L, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):447–52

PHARMACOKINETICS

Absorption and elimination of trivalent and hexavalent chromium in humans following ingestion of a bolus dose in drinking water. Kerger BD, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):145–58

PHARMACOLOGY

Astringent subqualities in acids. Thomas CJ, et al. **Chem Senses** 1995 Dec;20(6):593–600
Intake, digestion, and nitrogen utilization by sheep fed tropical legumes with contrasting tannin concentration and astringency. Barahona R, et al. **J Anim Sci** 1997 Jun; 75(6):1633–40
Smear layer instability caused by hemostatic agents. Land MF, et al. **J Prosthet Dent** 1996 Nov;76(5):477–82

THERAPEUTIC USE

Topical aluminum chloride for social phobia–related hyperhidrosis [letter] Bohn P, et al. **Am J Psychiatry** 1996 Oct;153(10):1368
A comparison of topical tannic acid versus iontophoresis in the medical treatment of palmar hyperhidrosis. Goh CL, et al. **Singapore Med J** 1996 Oct;37(5):466–8

TOXICITY

Effects of aluminum chloride on normal and uremic adult male rats. Tissue distribution, brain choline acetyltransferase activity, and some biological variables. Cherroret G, et al. **Biol Trace Elem Res** 1996 Jul; 54(1):43–53
Effects of aluminum chloride on the kinetics of rat cortex synaptosomal ATP diphosphohydrolase (EC 3.6.1.5). Schetinger MR, et al. **Biol Trace Elem Res** 1995 Dec; 50(3):209–19

ASTROBIOLOGY see **EXOBIOLOGY**

ASTROCYTES

see related
BLOOD–BRAIN BARRIER

CHEMISTRY

Glial fibrillary acidic protein–immunoreactive astrocytosis in elderly patients with schizophrenia and dementia. Arnold SE, et al. **Acta Neuropathol (Berl)** 1996;91(3):269–77
Astrocytic processes compensate for the apparent lack of GABA transporters in the axon terminals of cerebellar Purkinje cells. Ribak CE, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):379–90
Fluorescence detection of a neurotoxic astroglia–released factor using gradient liquid chromatography after precolumn derivatization. Hubert P, et al. **Biomed Chromatogr** 1997 Mar–Apr;11(2):93–5
Histological markers of neuronal, axonal and astrocytic changes after lateral rigid impact traumatic brain injury. Dunn–Meynell AA, et al. **Brain Res** 1997 Jun 27; 761(1):25–41
Ultrastructural immunocytochemical localization of the N–methyl–D–aspartate receptor and tyrosine hydroxylase in the shell of the rat nucleus accumbens. Gracy KN, et al. **Brain Res** 1996 Nov 11;739(1–2):169–81
kappa–opioid receptor expression defines a phenotypically distinct subpopulation of astroglia: relationship to Ca2+ mobilization, development, and the antiproliferative effect of opioids. Gurwell JA, et al. **Brain Res** 1996 Oct 21; 737(1–2):175–87
beta–Amyloid peptide–induced morphological changes coincide with increased K+ and Cl– channel activity in rat cortical astrocytes. Jalonen TO, et al. **Brain Res** 1997 Jan 23;746(1–2):85–97
Astroglial expression of hepatocyte growth factor and hepatocyte growth factor activator in human brain tissues. Yamada T, et al. **Brain Res** 1997 Jul 11;762(1–2):251–5
Development of astrocytes and neurons in cultured brain slices from mice lacking connexin43. Perez Velazquez JL, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):293–6
Nuclear localization of functional FGF receptor 1 in human astrocytes suggests a novel mechanism for growth factor action. Stachowiak MK, et al. **Brain Res Mol Brain Res** 1996 May;38(1):161–5
Evidence for reactive astrocytes in rat vestibular and cochlear nuclei following unilateral inner ear lesion. de Waele C, et al. **Eur J Neurosci** 1996 Sep;8(9):2006–18
Quinolinate immunoreactivity in experimental rat brain tumors is present in macrophages but not in astrocytes. Moffett JR, et al. **Exp Neurol** 1997 Apr;144(2):287–301
Glial cells in Alzheimer's disease: preferential effect of APOE risk on scattered microglia. Saitoh T, et al. **Gerontology** 1997;43(1–2):109–18
Astrocytes, not neurons, show most prominent staining for spermidine/spermine–like immunoreactivity in adult rat brain. Laube G, et al. **Glia** 1997 Feb;19(2):171–9
Novel expression and localization of active thrombomodulin on the surface of mouse brain astrocytes. Pindon A, et al. **Glia** 1997 Mar;19(3):259–68
Evidence for the existence of galanin receptors on cultured astrocytes of rat CNS: colocalization with cholinergic receptors. Hösli E, et al. **J Chem Neuroanat** 1997 Jul; 13(2):95–103
Sprouting adult CNS cholinergic axons express NILE and associate with astrocytic surfaces expressing neural cell adhesion molecule. Chalmers GR, et al. **J Comp Neurol** 1996 Jul 22;371(2):287–99
Mab22C11 antibody to amyloid precursor protein recognizes a protein associated with specific astroglial cells of the rat central nervous system characterized by their capacity to support axonal outgrowth. Chauvet N, et al. **J Comp Neurol** 1997 Jan 27;377(4):550–64
Immunolocalization of glutathione reductase in the murine brain. Knollema S, et al. **J Comp Neurol** 1996 Sep 16; 373(2):157–72
Differential expression of tenascin by astrocytes associated with the supraoptic nucleus (SON) of hydrated and dehydrated adult rats. Singleton PA, et al. **J Comp Neurol** 1996 Sep 16;373(2):186–99
Neurotrophins and their trk receptors in cultured cells of the glial lineage and in white matter of the central nervous system. Condorelli DF, et al. **J Mol Neurosci** 1995; 6(4):237–48
Metabotropic glutamate receptor mGluR5 in astrocytes: pharmacological properties and agonist regulation. Balázs R, et al. **J Neurochem** 1997 Jul;69(1):151–63
Inhibition of muscarinic receptor–stimulated glial cell proliferation by ethanol. Guizzetti M, et al. **J Neurochem** 1996 Dec;67(6):2236–45
Comparison of type 2 inositol 1,4,5–trisphosphate receptor distribution and subcellular Ca2+ release sites that support Ca2+ waves in cultured astrocytes. Sheppard CA, et al. **J Neurochem** 1997 Jun;68(6):2317–27
Down–regulation of 5–hydroxytryptamine7 receptors by dexamethasone in rat frontocortical astrocytes. Shimizu M, et al. **J Neurochem** 1997 Jun;68(6):2604–9
Distinct patterns of expression and physiological effects of sst1 and sst2 receptor subtypes in mouse hypothalamic neurons and astrocytes in culture. Viollet C, et al. **J Neurochem** 1997 Jun;68(6):2273–80
Neuritic outgrowth associated with astroglial phenotypic changes induced by antisense glial fibrillary acidic protein (GFAP) mRNA in injured neuron–astrocyte cocultures. Lefrançois T, et al. **J Neurosci** 1997 Jun 1;17(11):4121–8
In vitro differentiation of neural progenitor cells from prenatal rat brain: common cell surface glycoprotein on three glial cell subsets. Blass–Kampmann S, et al. **J Neurosci Res** 1997 Apr 15;48(2):95–111
Kainate/AMPA receptors expressed on human fetal astrocytes in long–term culture. Cauley K, et al. **J Neurosci Res** 1997 Feb 1;47(3):311–21
Ex vivo astroglial–induced radial glia express in vivo markers. Colombo JA, et al. **J Neurosci Res** 1996 Dec 15; 46(6):674–7
Differential expression in glial cells derived from chick embryo cerebral hemispheres at an advanced stage of development. Kentroti S, et al. **J Neurosci Res** 1997 Feb 1;47(3):322–31
Molecular mimicry between HIV–1 gp41 and an astrocyte isoform of alpha–actinin. Spehar T, et al. **J Neurovirol** 1995 Dec;1(5–6):381–90
Metabotropic glutamate receptor expression in cultured rat astrocytes and human gliomas. Condorelli DF, et al. **Neurochem Res** 1997 Sep;22(9):1127–33
Presence of macrophage migration inhibitory factor (MIF) in ependyma, astrocytes and neurons in the bovine brain. Nishibori M, et al. **Neurosci Lett** 1996 Aug 9;213(3):193–6

CYTOLOGY

Interlaminar astroglial processes in the cerebral cortex of adult monkeys but not of adult rats. Colombo JA. **Acta Anat (Basel)** 1996;155(1):57–62
Shrinkage–induced activation of Na+/H+ exchange: role of cell density and myosin light chain phosphorylation. Shrode LD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1968–79
Calcium–dependent activation of Erk–1 and Erk–2 after hypo–osmotic astrocyte swelling. Schliess F, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):167–71
S100 beta induces apoptotic cell death in cultured astrocytes via a nitric oxide–dependent pathway. Hu J, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):239–45
Neural tissue engineering: from polymer to biohybrid organs. Woerly S, et al. **Biomaterials** 1996 Feb;17(3):301–10
Time–dependent influence of the somatostatin analogue octreotide on the proliferation of rat astrocytes and glioma cells. Feindt J, et al. **Brain Res** 1997 Jan 23;746(1–2):309–13
Rubral astrocytic reactions to proximal and distal axotomy of rubrospinal neurons in the rat. Tseng GF, et al. **Brain Res** 1996 Dec 2;742(1–2):115–28
Cell cycle kinetics and commitment in newborn, adult, and tumoral astrocytes. Li V, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):138–47
Microglia–astrocyte interactions after cortisone treatment in a neonatal hypoxia–ischemia model. McRae A, et al. **Brain Res Dev Brain Res** 1996 Jun 14;94(1):44–51
Differential expression of Rho family GTP–binding proteins and protein kinase C isozymes during C6 glial cell differentiation. Yoshimura S, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):90–8
Id genes encoding inhibitors of transcription are expressed during in vitro astrocyte differentiation and in cell lines derived from astrocytic tumors. Andres–Barquin PJ, et al. **Cancer Res** 1997 Jan 15;57(2):215–20
Influence of culture conditions on monoamine oxidase A and B activity in rat astrocytes. Carlo P, et al. **Cell Biochem Funct** 1996 Mar;14(1):19–25
Effects of extracellular matrix macromolecules on the differentiation of plasma membrane structure in cultured astrocytes. Sasaki H, et al. **Cell Struct Funct** 1996 Apr; 21(2):133–41
Live astrocytes visualized by green fluorescent protein in transgenic mice. Zhuo L, et al. **Dev Biol** 1997 Jul 1; 187(1):36–42
Transience of astrocytes in the newborn macaque monkey retina. Distler C, et al. **Eur J Neurosci** 1996 Apr;8(4):847–51
Role of thyroid hormone in the morphological differentiation and maturation of astrocytes: temporal correlation with synthesis and organization of actin. Paul S, et al. **Eur J Neurosci** 1996 Nov;8(11):2361–70
Morphological and immunophenotypic microglial changes in the denervated fascia dentata of adult rats: correlation with blood–brain barrier damage and astroglial reactions. Jensen MB, et al. **Exp Neurol** 1997 Jan;143(1):103–16
Expression of neural cell adhesion molecule (NCAM) characterizes a subpopulation of type 1 astrocytes in human optic nerve head. Kobayashi S, et al. **Glia** 1997 Jul; 20(3):262–73
Effects of tenascin–C in cultured hippocampal astrocytes: NCAM and fibronectin immunoreactivity changes. Mahler M, et al. **Glia** 1997 Jul;20(3):231–42
Neuronal regulation of astrocyte morphology in vitro is mediated by GABAergic signaling. Matsutani S, et al. **Glia** 1997 May;20(1):1–9
Age–related changes in GFAP–immunoreactive astrocytes in the rat ventral cochlear nucleus. Jalenques I, et al. **Hear Res** 1997 May;107(1–2):113–24
In vitro induction of radial–like cells by leptomeningeal and cortical astroglial conditioned media. Effect of protease inhibitors. Colombo JA, et al. **Int J Dev Neurosci** 1996 Jul;14(4):489–96
Temporal characterization of microglia, IL–1 beta–like immunoreactivity and astrocytes in the dentate gyrus of hippocampal organotypic slice cultures. Coltman BW, et al. **Int J Dev Neurosci** 1996 Oct;14(6):707–19
Growth stimulation and chemotropic attraction of rat retinal ganglion cell axons in vitro by co–cultured optic nerves, astrocytes and astrocyte conditioned medium. Lucius R, et al. **Int J Dev Neurosci** 1996 Jul;14(4):387–98
Spatial relationship of lectin–labelled extracellular matrix and glutamine synthetase–immunoreactive astrocytes in rat cortical forebrain regions. Derouiche A, et al. **J Anat** 1996 Oct;189 (Pt 2):363–72
Astroglial and vascular interactions of noradrenaline terminals in the rat cerebral cortex. Cohen Z, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):894–904
Reactive astrocytosis from excitotoxic injury in hippocampal organ culture parallels that seen in vivo. Kunkler PE, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):26–43
Neuritic differentiation and synaptogenesis in serum–free neuronal cultures of the rat cerebral cortex. de Lima AD, et al. **J Comp Neurol** 1997 Jun 2;382(2):230–46
Reactive astrocyte formation in vivo is regulated by noradrenergic axons. Griffith R, et al. **J Comp Neurol** 1996 Jul 29;371(3):362–75
Subventricular zone–olfactory bulb migratory pathway in the adult mouse: cellular composition and specificity as determined by heterochronic and heterotopic transplantation. Jankovski A, et al. **J Comp Neurol** 1996 Jul 29;371(3):376–96
Taurine in rat posterior pituitary: localization in astrocytes and selective release by hypoosmotic stimulation. Miyata S, et al. **J Comp Neurol** 1997 May 19;381(4):513–23
Glial fibrillary acidic protein and vimentin in radial glia of

Ambystoma mexicanum and Triturus carnifex: an immunocytochemical study. Lazzari M, et al. **J Hirnforsch** 1997;38(2):187–94

A common morphological response of astrocytes to various injuries: "dark" astrocytes. A light and electron microscopic analysis. Tóth Z, et al. **J Hirnforsch** 1997;38(2):173–86

Hypoxia dramatically increases the nonspecific transport of blood–borne proteins to the brain. Plateel M, et al. **J Neurochem** 1997 Feb;68(2):874–7

Morphological plasticity of cultured astrocytes derived from the subfornical organ of the adult rat. Ramsell KD, et al. **J Neurocytol** 1997 Apr;26(4):249–56

Growth factor activity of endothelin–1 in primary astrocytes mediated by adhesion–dependent and –independent pathways. Cazaubon S, et al. **J Neurosci** 1997 Aug 15; 17(16):6203–12

Conditional ablation of cerebellar astrocytes in postnatal transgenic mice. Delaney CL, et al. **J Neurosci** 1996 Nov 1;16(21):6908–18

Astrocyte growth, reactivity, and the target of the antiproliferative antibody, TAPA. Geisert EE Jr, et al. **J Neurosci** 1996 Sep 1;16(17):5478–87

Astrogliosis in the neonatal and adult murine brain post–trauma: elevation of inflammatory cytokines and the lack of requirement for endogenous interferon–gamma. Rostworowski M, et al. **J Neurosci** 1997 May 15; 17(10):3664–74

Kainate/AMPA receptors expressed on human fetal astrocytes in long–term culture. Cauley K, et al. **J Neurosci Res** 1997 Feb 1;47(3):311–21

Ex vivo astroglial–induced radial glia express in vivo markers. Colombo JA, et al. **J Neurosci Res** 1996 Dec 15; 46(6):674–7

Attempts to produce astrocyte cultures devoid of oligodendrocyte generating potential by the use of antimitotic treatment reveal the presence of quiescent oligodendrocyte precursors. Crang AJ, et al. **J Neurosci Res** 1997 Jul 1;49(1):64–71

Multipotential and lineage restricted precursors coexist in the mammalian perinatal subventricular zone. Levison SW, et al. **J Neurosci Res** 1997 Apr 15;48(2):83–94

Histamine induces oscillations of mitochondrial free Ca2+ concentration in single cultured rat brain astrocytes. Jou MJ, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):299–308

Age–dependent morphological changes in dBcAMP–treated astrocytes. Gicovate DG, et al. **Medicina (B Aires)** 1996; 56(4):389–92

The adult rat hippocampus contains primordial neural stem cells. Palmer TD, et al. **Mol Cell Neurosci** 1997; 8(6):389–404

Bipotent progenitor cell lines from the human CNS. Sah DW, et al. **Nat Biotechnol** 1997 Jun;15(6):574–80

Retinal ganglion cell axons drive the proliferation of astrocytes in the developing rodent optic nerve. Burne JF, et al. **Neuron** 1997 Feb;18(2):223–30

Bone morphogenetic proteins promote astroglial lineage commitment by mammalian subventricular zone progenitor cells. Gross RE, et al. **Neuron** 1996 Oct;17(4):595–606

Cultured rat neuronal and glial cells entrapped within hydrogel polymer matrices: a potential tool for neural tissue replacement. Woerly S, et al. **Neurosci Lett** 1996 Mar 1; 205(3):197–201

Neurons are generated in confluent astroglial cultures of rat neonatal neocortex. Hildebrand B, et al. **Neuroscience** 1997 Jun;78(4):957–66

Nuclear accumulation of FGF–2 is associated with proliferation of human astrocytes and glioma cells. Joy A, et al. **Oncogene** 1997 Jan 16;14(2):171–83

Glucocorticoid receptor pathways are involved in the inhibition of astrocyte proliferation. Crossin KL, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2687–92

Rapid laminar–dependent changes in GFAP immunoreactive astrocytes in the visual cortex of rats reared in a complex environment. Jones TA, et al. **Psychoneuroendocrinology** 1996 Feb;21(2):189–201

[Monoclonal antibodies against P–epitope of chordin in glial cultures detect astrocytes of the second type] Khalanskiĭ AS, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):209–13 **(Rus)**

[Effect of hypoxia on morphofunctional parameters of astrocytes in a monolayer culture] Mezen NI, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):581–4 **(Rus)**

DRUG EFFECTS

Glutamate, arachidonic acid, and calcium regulation in cultured hippocampal astrocytes: involvement in ischemia? Madden KS, et al. **Adv Neurol** 1996;71:53–9

Acetaldehyde–induced growth inhibition in cultured rat astroglial cells. Holownia A, et al. **Alcohol** 1996 Jan–Feb; 13(1):93–7

Increase of glutamate uptake in astrocytes: a possible mechanism of action of volatile anesthetics. Miyazaki H, et al. **Anesthesiology** 1997 Jun;86(6):1359–66; discussion 8A

Identity of neurotrophic molecules released from astroglia by vasoactive intestinal peptide. Brenneman DE, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:167–73 (30 ref.)

Acute and chronic administration of ibogaine to the rat results in astrogliosis that is not confined to the cerebellar vermis. O'Callaghan JP, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:205–16

Pituitary adenylate cyclase–activating polypeptide (PACAP) is a regulator of astrocytes: PACAP stimulates proliferation and production of interleukin 6 (IL–6), but not nerve growth factor (NGF), in cultured rat astrocyte. Tatsuno I, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:482–8

Intracellular calcium rise through L–type calcium channels, as molecular mechanism for prion protein fragment 106–126–induced astroglial proliferation. Florio T, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):397–405

Somatostatin inhibits interleukin 6 release from rat cortical type I astrocytes via the inhibition of adenylyl cyclase. Grimaldi M, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):242–8

Mastoparan elicits prostaglandin E2 generation and inhibits inositol phosphate accumulation via different mechanisms in rabbit astrocytes. Nakahata N, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):60–6

Neurotropic pyrimidine heterocyclic compounds. II. Effects of novel neurotropic pyrimidine derivatives on astrocytic morphological differentiation. Koyama Y, et al. **Biol Pharm Bull** 1997 Feb;20(2):138–41

Carbamazepine inhibits the potentiation by adenosine analogues of agonist induced inositolphosphate formation in hippocampal astrocyte cultures. Biber K, et al. **Biol Psychiatry** 1996 Oct 1;40(7):563–7

Interleukin–1, nitric oxide and reactive astrocytes. Lee SC, et al. **Brain Behav Immun** 1995 Dec;9(4):345–54 (48 ref.)

Distinct expressions of three cytokines by IL–1–stimulated astrocytes in vitro and in AIDS brain. Vitkovic L, et al. **Brain Behav Immun** 1995 Dec;9(4):378–88

Human amylin mimics amyloid beta protein–induced reactive gliosis and inhibition of cellular redox activity in cultured astrocytes. Abe K, et al. **Brain Res** 1997 Jul 11; 762(1–2):285–8

Basic fibroblast growth factor (bFGF) injection activates the glial reaction in the injured adult rat brain. Eclancher F, et al. **Brain Res** 1996 Oct 21;737(1–2):201–14

Serotonin induces inward potassium and calcium currents in rat cortical astrocytes. Jalonen TO, et al. **Brain Res** 1997 May 30;758(1–2):69–82

Proliferation of astroglia from the adult human cerebrum is inhibited by ethanol in vitro. Kane CJ, et al. **Brain Res** 1996 Aug 26;731(1–2):39–44

Protection of astrocytes by fructose 1,6–bisphosphate and citrate ameliorates neuronal injury under hypoxic conditions. Kelleher JA, et al. **Brain Res** 1996 Jul 8; 726(1–2):167–73

Protein tyrosine kinase inhibitors suppress the production of nitric oxide in mixed glia, microglia–enriched or astrocyte–enriched cultures. Kong LY, et al. **Brain Res** 1996 Aug 5;729(1):102–9

Effects of phorbol ester on expression of CNTF–mRNA in cultured astrocytes from rat olfactory bulb. Nagao H, et al. **Brain Res** 1996 May 6;719(1–2):23–8

Isolation, cloning and characterization of a putative type–1 astrocyte cell line. Seidman KJ, et al. **Brain Res** 1997 Apr 4;753(1):18–26

Heat stress reduces glutamate toxicity in cultured neurons without hsp70 expression. Snider BJ, et al. **Brain Res** 1996 Aug 12;729(2):273–6

Removal after addition of NO–generating agents and 8–bromo–cyclic GMP causes morphological change of cultured cerebellar astrocytes: a new mode of NO action. Tomita A, et al. **Brain Res** 1997 Jan 9;744(2):344–6

Endogenous endothelin–1 initiates astrocytic growth after spinal cord injury. Uesugi M, et al. **Brain Res** 1996 Jul 29;728(2):255–9

Metallothionein induction protects swollen rat primary astrocyte cultures from methylmercury–induced inhibition of regulatory volume decrease. Vitarella D, et al. **Brain Res** 1996 Nov 4;738(2):213–21

Prenatal cocaine delays astroglial maturation: immunodensitometry shows increased markers of immaturity (vimentin and GAP–43) and decreased proliferation and production of the growth factor S–100. Clarke C, et al. **Brain Res Dev Brain Res** 1996 Feb 26; 91(2):268–73

Deficiency of essential neurotrophic factors in conditioned media produced by ethanol–exposed cortical astrocytes. Kim JA, et al. **Brain Res Dev Brain Res** 1996 Oct 23; 96(1–2):1–10

Co–expression of MAP–2 and GFAP in cells developing from rat EGF responsive precursor cells. Rosser AE, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):291–5

Tetrahydrobiopterin biosynthesis in C6 glioma cells: induction of GTP cyclohydrolase I gene expression by lipopolysaccharide and cytokine treatment. D'Sa C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):105–10

Glucocorticoid upregulation of glutamate dehydrogenase gene expression in vitro in astrocytes. Hardin–Pouzet H, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):324–8

The endogenous benzodiazepine receptor ligand ODN increases cytosolic calcium in cultured rat astrocytes. Lamacz M, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1–2):290–6

1,25–Dihydroxyvitamin D3 regulates the expression of the low–affinity neurotrophin receptor. Naveilhan P, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):259–68

Effect of serotonin on cytokine mRNA expression in rat hippocampal astrocytes. Pousset F, et al. **Brain Res Mol Brain Res** 1996 May;38(1):54–62

GDNF mRNA levels are induced by FGF–2 in rat C6 glioblastoma cells. Suter–Crazzolara C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):175–82

Effects of benzodiazepines on potassium–induced increase in free cytosolic calcium concentration in astrocytes: interactions with nifedipine and the peripheral–type benzodiazepine antagonist PK 11195. Zhao Z, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):273–7

Potent inhibition of interleukin–6 expression in a human astrocytoma cell line by tenidap. Lieb K, et al. **Cell Tissue Res** 1997 May;288(2):251–7

Trophic actions of extracellular ATP on astrocytes, synergistic interactions with fibroblast growth factors and underlying signal transduction mechanisms. Neary JT. **Ciba Found Symp** 1996;198:130–9; discussion 139–41 (31 ref.)

Cytotoxicity of bilirubin for human fibroblasts and rat astrocytes in culture. Effect of the ratio of bilirubin to serum albumin. Chuniaud L, et al. **Clin Chim Acta** 1996 Dec 30;256(2):103–14

Glutathione protects astrocytes from peroxynitrite–mediated mitochondrial damage: implications for neuronal/astrocytic trafficking and neurodegeneration. Barker JE, et al. **Dev Neurosci** 1996;18(5–6):391–6

Low concentrations of ethanol inhibits prolactin–induced mitogenesis and cytokine expression in cultured astrocytes. DeVito WJ, et al. **Endocrinology** 1997 Mar;138(3):922–8

Hypothalamic astrocytes respond to transforming growth factor–alpha with the secretion of neuroactive substances that stimulate the release of luteinizing hormone–releasing hormone. Ma YJ, et al. **Endocrinology** 1997 Jan; 138(1):19–25

Endothelins promote the activation of astrocytes in rat neostriatum through ET(B) receptors. Ishikawa N, et al. **Eur J Neurosci** 1997 May;9(5):895–901

Potentiated cAMP rise in metabotropically stimulated rat cultured astrocytes by a Ca2+–related A1/A2 adenosine receptor cooperation. Ogata T, et al. **Eur J Neurosci** 1996 Jun;8(6):1124–31

The competitive transport inhibitor L–trans–pyrrolidine–2, 4–dicarboxylate triggers excitotoxicity in rat cortical neuron–astrocyte co–cultures via glutamate release rather than uptake inhibition. Volterra A, et al. **Eur J Neurosci** 1996 Sep;8(9):2019–28

Pharmacological characterization of protease–activated receptor (PAR–1) in rat astrocytes. Debeir T, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):111–7

Anethole dithiolethione prevents oxidative damage in glutathione–depleted astrocytes. Drukarch B, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):259–62

The stimulatory effect of the octadecaneuropeptide (ODN) on cytosolic Ca2+ in rat astrocytes is not mediated through classical benzodiazepine receptors. Gandolfo P, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):275–81

Selegiline is neuroprotective in primary brain cultures treated with 1–methyl–4–phenylpyridinium. Koutsilieri E, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):181–6

Selegiline enhances NGF synthesis and protects central nervous system neurons from excitotoxic and ischemic damage. Semkova I, et al. **Eur J Pharmacol** 1996 Nov 7; 315(1):19–30

Regulation by interleukin–1beta of formation of a line of delimiting astrocytes following prenatal trauma to the brain of the mouse. Scripter JL, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):329–41

Astrocytes and microglia respond to estrogen with increased apoE mRNA in vivo and in vitro. Stone DJ, et al. **Exp Neurol** 1997 Feb;143(2):313–8

Effect of substance P on cytokine production by human astrocytic cells and blood mononuclear cells: characterization of novel tachykinin receptor antagonists. Derocq JM, et al. **FEBS Lett** 1996 Dec 16;399(3):321–5

Differential toxicity of ganciclovir for rat neurons and astrocytes in primary culture following adenovirus–mediated transfer of the HSVtk gene. Maron A, et al. **Gene Ther** 1997 Jan;4(1):25–31

A neurotoxic prion protein fragment enhances proliferation of microglia but not astrocytes in culture. Brown DR, et al. **Glia** 1996 Sep;18(1):59–67

ATP–evoked inositol phosphates formation through activation of P2U purinergic receptors in cultured astrocytes: regulation by PKC subtypes alpha, delta, and theta. Chen CC, et al. **Glia** 1996 May;17(1):63–71

Neurosteroids modulate the reaction of astroglia to high extracellular potassium levels. Del Cerro S, et al. **Glia** 1996 Dec;18(4):293–305

Effects of GM–CSF and ordinary supplements on the ramification of microglia in culture: a morphometrical study. Fujita H, et al. **Glia** 1996 Dec;18(4):269–81

Differential regulation by cytokines of human astrocyte nitric oxide production. Hu S, et al. **Glia** 1995 Dec;15(4):491–4

Toxicity of ricin and volkensin, two ribosome–inactivating proteins, to microglia, astrocyte, and neuron cultures. Sparapani M, et al. **Glia** 1997 Jul;20(3):203–9

Stimulation of glutamine synthetase activity by excitatory amino acids in astrocyte cultures derived from aged mouse cerebral hemispheres may be associated with non–N–methyl–D–aspartate receptor activation. Fleischer–Lambropoulos E, et al. **Int J Dev Neurosci** 1996 Jul;14(4):523–30

Autoradiographic studies on the uptake of 3H–dopamine by neurons and astrocytes in explant and primary cultures of rat CNS: effects of uptake inhibitors. Hösli E, et al. **Int J Dev Neurosci** 1997 Feb;15(1):45–53

Lead cytotoxicity in primary cultured rat astrocytes and

Schwann cells. Tang HW, et al. **J Appl Toxicol** 1996 May-Jun;16(3):187-96
Regulation of nerve growth factor mRNA by interleukin-1 in rat hippocampal astrocytes is mediated by NFkappaB. Friedman WJ, et al. **J Biol Chem** 1996 Dec 6; 271(49):31115-20
Interleukin-8 released into the cerebrospinal fluid after brain injury is associated with blood-brain barrier dysfunction and nerve growth factor production. Kossmann T, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):280-9
Cortical application of potassium chloride induces the low-molecular weight heat shock protein (Hsp27) in astrocytes. Plumier JC, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):781-90
Thyroid hormone induces protein secretion and morphological changes in astroglial cells with an increase in expression of glial fibrillary acidic protein. Lima FR, et al. **J Endocrinol** 1997 Jul;154(1):167-75
Endogenous nitric oxide activates prostaglandin F2 alpha production in human microglial cells but not in astrocytes: a study of interactions between eicosanoids, nitric oxide, and superoxide anion (O2-) regulatory pathways. Janabi N, et al. **J Immunol** 1996 Sep 1;157(5):2129-35
IFN-gamma-activated primary murine astrocytes express B7 costimulatory molecules and prime naive antigen-specific T cells. Nikcevich KM, et al. **J Immunol** 1997 Jan 15; 158(2):614-21
Inosine mediates the protective effect of adenosine in rat astrocyte cultures subjected to combined glucose-oxygen deprivation. Haun SE, et al. **J Neurochem** 1996 Nov; 67(5):2051-9
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) decreases glutamate uptake in cultured astrocytes. Hazell AS, et al. **J Neurochem** 1997 May;68(5):2216-9
Lysophosphatidic acid decreases glutamate and glucose uptake by astrocytes. Keller JN, et al. **J Neurochem** 1996 Dec;67(6):2300-5
Lysophosphatidic acid-induced proliferation-related signals in astrocytes. Keller JN, et al. **J Neurochem** 1997 Sep; 69(3):1073-84
Cytokine- and endotoxin-induced nitric oxide synthase in rat astroglial cultures: differential modulation by angiotensin II. Kopnisky KL, et al. **J Neurochem** 1997 Mar; 68(3):935-44
Effect of Ca2+ on in vitro astrocyte injury. Rzigalinski BA, et al. **J Neurochem** 1997 Jan;68(1):289-96
Cyclic GMP inhibits a pharmacologically distinct Na+/H+ exchanger variant in cultured rat astrocytes via an extracellular site of action. Touyz RM, et al. **J Neurochem** 1997 Apr;68(4):1451-61
Effects of ketone bodies on astrocyte amino acid metabolism. Yudkoff M, et al. **J Neurochem** 1997 Aug;69(2):682-92
The neuroprotective activity of group-II metabotropic glutamate receptors requires new protein synthesis and involves a glial-neuronal signaling. Bruno V, et al. **J Neurosci** 1997 Mar 15;17(6):1891-7
Thrombin induces apoptosis in cultured neurons and astrocytes via a pathway requiring tyrosine kinase and RhoA activities. Donovan FM, et al. **J Neurosci** 1997 Jul 15;17(14):5316-26
Metabotropic glutamate receptor activation modulates kainate and serotonin calcium response in astrocytes. Haak LL, et al. **J Neurosci** 1997 Mar 1;17(5):1825-37
Bone morphogenetic proteins induce astroglial differentiation of oligodendroglial-astroglial progenitor cells. Mabie PC, et al. **J Neurosci** 1997 Jun 1;17(11):4112-20
Mechanisms of H+ and Na+ changes induced by glutamate, kainate, and D-aspartate in rat hippocampal astrocytes. Rose CR, et al. **J Neurosci** 1996 Sep 1;16(17):5393-404
Release of [3H]-D-aspartate from primary astrocyte cultures in response to raised external potassium. Rutledge EM, et al. **J Neurosci** 1996 Dec 15;16(24):7803-11
Interleukin-1 enhances the ATP-evoked release of arachidonic acid from mouse astrocytes. Stella N, et al. **J Neurosci** 1997 May 1;17(9):2939-46
Different pathways of apoptosis revealed by 2-chloro-adenosine and deoxy-D-ribose in mammalian astroglial cells. Ceruti S, et al. **J Neurosci Res** 1997 Feb 15;47(4):372-83
Regulation of nerve growth factor secretion and mRNA expression by bacterial lipopolysaccharide in primary cultures of rat astrocytes. Galve-Roperh I, et al. **J Neurosci Res** 1997 Sep 1;49(5):569-75
Mercury-stimulated histamine uptake and binding in cultured astroglial and cerebral endothelial cells. Huszti Z, et al. **J Neurosci Res** 1997 Apr 1;48(1):71-81
Proliferation of ramified microglia on an astrocyte monolayer: characterization of stimulatory and inhibitory cytokines. Kloss CU, et al. **J Neurosci Res** 1997 Jul 15; 49(2):248-54
beta-Amyloid peptide induced cytoskeletal reorganization in cultured astrocytes. Salinero O, et al. **J Neurosci Res** 1997 Jan 15;47(2):216-23
Adrenomedullin, a novel vasoactive hormone, binds to mouse astrocytes and stimulates cyclic AMP production. Yeung VT, et al. **J Neurosci Res** 1996 Nov 1;46(3):330-5
Endothelin-3 attenuates the cyclic GMP responses to C-type natriuretic peptide in cultured mouse astrocytes. Yeung VT, et al. **J Neurosci Res** 1996 Dec 15;46(6):686-96
Effects of ATP on phosphoinositide hydrolysis and prostaglandin E2 generation in rabbit astrocytes. Ishimoto H, et al. **J Pharm Pharmacol** 1997 May;49(5):520-4
Compared effects of extracellular K+ ions and soman, a neurotoxic, on cerebral astrocyte morphology. An in vitro study. Grange-Messent V, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):151-9
Menadione toxicity in cultured rat cortical astrocytes. Abe K, et al. **Jpn J Pharmacol** 1996 Dec;72(4):299-306
Prostanoid receptor-mediated calcium signaling in cultured rat astrocytes. Kitanaka J, et al. **Jpn J Pharmacol** 1996 May; 71(1):85-7
Ouabain-induced cell proliferation in cultured rat astrocytes. Murata Y, et al. **Jpn J Pharmacol** 1996 Dec;72(4):347-53
Ca2+ depletion facilitates taurine release in cultured rat astrocytes. Takuma K, et al. **Jpn J Pharmacol** 1996 Sep; 72(1):75-8
Effects of ethanol on GLUT1 protein and gene expression in rat astrocytes. Singh LD, et al. **Metab Brain Dis** 1996 Dec;11(4):343-57
Inhibition of astrocyte glutamate uptake by reactive oxygen species: role of antioxidant enzymes. Sorg O, et al. **Mol Med** 1997 Jul;3(7):431-40
Glutamine synthetase gene expression in a glioblastoma cell-line of clonal origin: regulation by dexamethasone and dibutyryl cyclic AMP. Arcuri C, et al. **Neurochem Res** 1995 Oct;20(10):1133-9
The gamma-glutamyl transpeptidase inhibitor acivicin preserves glutathione released by astroglial cells in culture. Dringen R, et al. **Neurochem Res** 1997 Jun;22(6):727-33
Hypothalamic extract influences a blood-brain barrier model of porcine brain capillary endothelial cells. Guerin JL, et al. **Neurochem Res** 1997 Mar;22(3):321-6
Induction of astrocyte argininosuccinate synthetase and argininosuccinate lyase by dibutyryl cyclic AMP and dexamethasone. Jackson MJ, et al. **Neurochem Res** 1996 Oct;21(10):1161-5
Release of ciliary neurotrophic factor from cultured astrocytes and its modulation by cytokines. Kamiguchi H, et al. **Neurochem Res** 1995 Oct;20(10):1187-93
Cytokine-induced selective increase of high-molecular-weight bFGF isoforms and their subcellular kinetics in cultured rat hippocampal astrocytes. Kamiguchi H, et al. **Neurochem Res** 1996 Jun;21(6):701-6
DHEAS inhibits TNF production in monocytes, astrocytes and microglial cells. Di Santo E, et al. **Neuroimmunomodulation** 1996 Sep-Oct;3(5):285-8
Topical application of fibrin adhesive in the rat brain: effects on different cellular elements of the wound. Ghulam Muhammad AK, et al. **Neurol Res** 1997 Feb;19(1):84-8
Anion exchange proteins and regulation of intracellular pH in cultured rat astrocytes and neurones. Bosman GJ, et al. **Neuroreport** 1997 Jan 20;8(2):427-30
Adenosine-induced release of nitric oxide from cortical astrocytes. Janigro D, et al. **Neuroreport** 1996 Jul 8; 7(10):1640-4
Selective increase in astrocytic elements in the rat dentate gyrus after chronic toluene exposure studied by GFAP immunocytochemistry and electron microscopy. Fukui K, et al. **Neurosci Lett** 1996 Jan 19;203(2):85-8
Adrenergic activation of phospholipase D in primary rat astrocytes. Gonzalez R, et al. **Neurosci Lett** 1996 Nov 15; 219(1):53-6
Riluzole promotes survival of rat motoneurons in vitro by stimulating trophic activity produced by spinal astrocyte monolayers. Peluffo H, et al. **Neurosci Lett** 1997 Jun 13; 228(3):207-11
Increased Na(+)-dependent high affinity uptake of glutamate in astrocytes chronically exposed to ethanol. Smith TL, et al. **Neurosci Lett** 1996 Nov 1;218(2):142-4
Acute 3-nitropropionic acid intoxication induces striatal astrocytic cell death and dysfunction of the blood-brain barrier: involvement of dopamine toxicity. Nishino H, et al. **Neurosci Res** 1997 Apr;27(4):343-55
Lactate spares glucose as a metabolic fuel in neurons and astrocytes from primary culture. Tabernero A, et al. **Neurosci Res** 1996 Dec;26(4):369-76
Heparan sulfate potentiates the autocrine action of basic fibroblast growth factor in astrocytes: an in vivo and in vitro study. Gómez-Pinilla F, et al. **Neuroscience** 1997 Jan; 76(1):137-45
The interleukin-1beta-mediated regulation of proenkephalin and opioid receptor messenger RNA in primary astrocyte-enriched cultures. Ruzicka BB, et al. **Neuroscience** 1997 Jul;79(2):517-24
Metabolic alterations produced by 3-nitropropionic acid in rat striata and cultured astrocytes: quantitative in vitro 1H nuclear magnetic resonance spectroscopy and biochemical characterization. Tsai MJ, et al. **Neuroscience** 1997 Aug; 79(3):819-26
Inhibition of glutamine synthetase reduces ammonia-induced astrocyte swelling in rat. Willard-Mack CL, et al. **Neuroscience** 1996 Mar;71(2):589-99
Ethanol-induced cell death in cultured rat astroglia. Holownia A, et al. **Neurotoxicol Teratol** 1997 Mar-Apr; 19(2):141-6
Astrocytes as modulators of mercury-induced neurotoxicity. Aschner M. **Neurotoxicology** 1996 Fall-Winter; 17(3-4):663-9 (59 ref.)
Differential sensitivity of neonatal rat astrocyte cultures to mercuric chloride (MC) and methylmercury (MeHg): studies on K+ and amino acid transport and metallothionein (MT) induction. Aschner M, et al. **Neurotoxicology** 1996 Spring;17(1):107-16
Methylmercury in astrocytes--what possible significance? Aschner M. **Neurotoxicology** 1996 Spring;17(1):93-106 (75 ref.)
Characterization of the morphological variations of astrocytes in culture following ethanol exposure. Barret L, et al. **Neurotoxicology** 1996 Summer;17(2):497-507
Changes in the number of astrocytes and microglia in the thalamus of the monkey Macaca fascicularis following long-term subclinical methylmercury exposure. Charleston JS, et al. **Neurotoxicology** 1996 Spring;17(1):127-38
Astrocytes as the site for bioactivation of neurotoxins. Di Monte DA, et al. **Neurotoxicology** 1996 Fall-Winter; 17(3-4):697-703 (32 ref.)
The effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure in primary rat astroglia: identification of biochemical and cellular targets. Legare ME, et al. **Neurotoxicology** 1997; 18(2):515-24
Regulatory volume decrease in primary astrocyte cultures: relevance to methylmercury neurotoxicity. Vitarella D, et al. **Neurotoxicology** 1996 Spring;17(1):117-23 (50 ref.)
(R)-methanandamide inhibits receptor-induced calcium responses by depleting internal calcium stores in cultured astrocytes. Venance L, et al. **Pflugers Arch** 1997 May; 434(1):147-9
Modulation of prostaglandin production by nitric oxide in astroglia. Busija DW, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 May; 56(5):355-9
Purine- and pyrimidine nucleotide-stimulated changes in intracellular calcium concentration in cultured astrocytes. Langley D, et al. **Receptors Channels** 1996;4(4):253-9
Action and binding of the endothelin antagonist bosentan on astrocytes of cultured rat central nervous system. Electrophysiological and autoradiographic studies. Hösli E, et al. **Regul Pept** 1996 Oct 22;66(3):149-53
Effect of interferon gamma and TNF alpha on the differentiation/activation of human glial cells: implication for the TNF alpha receptor I. Janabi N, et al. **Res Virol** 1996 Mar-Jun;147(2-3):147-53
Effects of tiagabine and vigabatrin on GABA uptake into primary cultures of rat cortical astrocytes. Leach JP, et al. **Seizure** 1996 Sep;5(3):229-34
Tyrosine prevents capsaicin-induced protein synthesis inhibition in cultured cells. Cochereau C, et al. **Toxicology** 1997 Feb 28;117(2-3):133-9

ENZYMOLOGY

Localisation of NADPH diaphorase activity and NOS immunoreactivity in astroglia in normal adult rat brain. Gabbott PL, et al. **Brain Res** 1996 Apr 1;714(1-2):135-44
Local injection of kainic acid causes widespread degeneration of NADPH-d neurons and induction of NADPH-d in neurons, endothelial cells and reactive astrocytes. Lei DL, et al. **Brain Res** 1996 Aug 19;730(1-2):199-206
Identification and cellular localization of protein kinase C isoforms in cultures of rat type-1 astrocytes. Roisin MP, et al. **Brain Res** 1995 Dec 1;701(1-2):297-300
Astroglial expression of hepatocyte growth factor and hepatocyte growth factor activator in human brain tissues. Yamada T, et al. **Brain Res** 1997 Jul 11;762(1-2):251-5
Evidence that carbon monoxide stimulates prostaglandin endoperoxide synthase activity in rat hypothalamic explants and in primary cultures of rat hypothalamic astrocytes. Mancuso C, et al. **Brain Res Mol Brain Res** 1997 May; 45(2):294-300
Cloning, localization and induction of mouse brain glycogen synthase. Pellegri G, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):191-9
Influence of culture conditions on monoamine oxidase A and B activity in rat astrocytes. Carlo P, et al. **Cell Biochem Funct** 1996 Mar;14(1):19-25
Differential expression of Na,K-ATPase isoforms in oligodendrocytes and astrocytes. Fink D, et al. **Dev Neurosci** 1996;18(4):319-26
Effect of carbonic anhydrase inhibition and acetoacetate on anaplerotic pyruvate carboxylase activity in cultured rat astrocytes. Hazen SA, et al. **Dev Neurosci** 1997;19(2):162-71
Long-term induction of haem oxygenase-1 (HSP-32) in astrocytes and microglia following transient focal brain ischaemia in the rat. Koistinaho J, et al. **Eur J Neurosci** 1996 Nov;8(11):2265-72
Ca2+/calmodulin-dependent cyclic GMP phosphodiesterase activity in granule neurons and astrocytes from rat cerebellum. Agulló L, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):119-25
Nitric oxide synthase in reactive astrocytes adjacent to beta-amyloid plaques. Wallace MN, et al. **Exp Neurol** 1997 Apr;144(2):266-72
TPA induces translocation but not down-regulation of new PKC isoform eta in macrophages, MDCK cells and astrocytes. Chen CC, et al. **FEBS Lett** 1997 Jul 21; 412(1):30-4
Characteristics of nitric oxide synthase type I of rat cerebellar astrocytes. Arbonés ML, et al. **Glia** 1996 Nov;18(3):224-32
Changes in astrocytic glutamate catabolism enzymes following neuronal degeneration or viral infection. Belin MF, et al. **Glia** 1997 Sep;21(1):154-61 (80 ref.)
Regulation of aldose reductase expression in rat astrocytes in culture. Jacquin-Becker C, et al. **Glia** 1997 Jun; 20(2):135-44
Astrocytes and Bergmann glia as an important site of nitric oxide synthase I. Kugler P, et al. **Glia** 1996 Feb; 16(2):165-73

ASTROCYTES

Ultrastructural localization of glycogen phosphorylase predominantly in astrocytes of the gerbil brain. Richter K, et al. **Glia** 1996 Aug;17(4):263–73

Stimulation of glutamate uptake and Na,K–ATPase activity in rat astrocytes exposed to ischemia–like insults. Stanimirovic DB, et al. **Glia** 1997 Feb;19(2):123–34

A comparative study of the distribution of alpha– and gamma–enolase subunits in cultured rat neural cells and fibroblasts. Deloulme JC, et al. **Int J Dev Neurosci** 1997 Apr;15(2):183–94

Bacterial lipopolysaccharide plus interferon–gamma elicit a very fast inhibition of a Ca2+–dependent nitric–oxide synthase activity in human astrocytoma cells. Colasanti M, et al. **J Biol Chem** 1997 Mar 21;272(12):7582–5

Inducible nitric–oxide synthase and nitric oxide production in human fetal astrocytes and microglia. A kinetic analysis. Ding M, et al. **J Biol Chem** 1997 Apr 25;272(17):11327–35

Increasing cAMP attenuates induction of inducible nitric–oxide synthase in rat primary astrocytes. Pahan K, et al. **J Biol Chem** 1997 Mar 21;272(12):7786–91

Expression of the type II iodothyronine deiodinase in cultured rat astrocytes is selenium–dependent. Pallud S, et al. **J Biol Chem** 1997 Jul 18;272(29):18104–10

Selective distribution of lactate dehydrogenase isoenzymes in neurons and astrocytes of human brain. Bittar PG, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1079–89

Immunofluorescent localization of constitutive and inducible prostaglandin H synthase in ovine astroglia. Thore CR, et al. **J Comp Neurol** 1996 Mar 25;367(1):1–9

Nonspecific esterase activity in astrocytes of the goldfish brain. Pepperell C, et al. **J Histochem Cytochem** 1996 Oct; 44(10):1195–203

Expression of type II nitric oxide synthase in primary human astrocytes and microglia: role of IL–1beta and IL–1 receptor antagonist. Liu J, et al. **J Immunol** 1996 Oct 15; 157(8):3569–76

Endothelin stimulates phospholipase D in striatal astrocytes. Desagher S, et al. **J Neurochem** 1997 Jan;68(1):78–87

Long–term effect of forskolin on the activation of adenylyl cyclase in astrocytes. el Jamali A, et al. **J Neurochem** 1996 Dec;67(6):2532–9

Cytokine– and endotoxin–induced nitric oxide synthase in rat astroglial cultures: differential modulation by angiotensin II. Kopnisky KL, et al. **J Neurochem** 1997 Mar; 68(3):935–44

Cyclic AMP inhibits activation of mitogen–activated protein kinase and cell proliferation in response to growth factors in cultured rat cortical astrocytes. Kurino M, et al. **J Neurochem** 1996 Dec;67(6):2246–55

Regulation of astrocyte nitric oxide synthase type II expression by ATP and glutamate involves loss of transcription factor binding to DNA. Lin HL, et al. **J Neurochem** 1997 Aug;69(2):612–6

Nitric oxide synthase type II mRNA stability is translation– and transcription–dependent. Park SK, et al. **J Neurochem** 1996 Oct;67(4):1766–9

Opposite regulation of adenylyl cyclase by protein kinase C in astrocyte and microglia cultures. Patrizio M, et al. **J Neurochem** 1997 Sep;69(3):1267–77

Prion protein fragment 106–126 differentially induces heme oxygenase–1 mRNA in cultured neurons and astroglial cells. Rizzardini M, et al. **J Neurochem** 1997 Feb; 68(2):715–20

Pretreatment of astrocytes with interferon–alpha/beta impairs interferon–gamma induction of nitric oxide synthase. Stewart VC, et al. **J Neurochem** 1997 Jun; 68(6):2547–51

Astrocytes and microglia express inducible nitric oxide synthase in mice with experimental allergic encephalomyelitis. Tran EH, et al. **J Neuroimmunol** 1997 Apr;74(1–2):121–9

Enhanced superoxide dismutase–2 immunoreactivity of astrocytes and occasional neurons in amyotrophic lateral sclerosis. Blaauwgeers HG, et al. **J Neurol Sci** 1996 Sep 1;140(1–2):21–9

Distinct properties of neuronal and astrocytic endopeptidase 3.4.24.16: a study on differentiation, subcellular distribution, and secretion processes. Vincent B, et al. **J Neurosci** 1996 Aug 15;16(16):5049–59

Activation of CPP32 during apoptosis of neurons and astrocytes. Keane RW, et al. **J Neurosci Res** 1997 Apr 15; 48(2):168–80

Mechanism of oxidative stress–induced intracellular acidosis in rat cerebellar astrocytes and C6 glioma cells. Tsai KL, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):161–74

Imbalanced expression of glutamate–glutamine cycle enzymes induced by human T–cell lymphotropic virus type 1 Tax protein in cultivated astrocytes. Akaoka H, et al. **J Virol** 1996 Dec;70(12):8727–36

NADPH diaphorase activity in activated astrocytes representing inducible nitric oxide synthase. Wallace MN. **Methods Enzymol** 1996;268:497–503

Inhibition of astrocyte glutamate uptake by reactive oxygen species: role of antioxidant enzymes. Sorg O, et al. **Mol Med** 1997 Jul;3(7):431–40

Induction of cytochrome P450 2E1 expression in rat and gerbil astrocytes by inflammatory factors and ischemic injury. Tindberg N, et al. **Mol Pharmacol** 1996 Nov; 50(5):1065–72

Cyclic AMP potentiation of cytokine–induced nitric oxide synthase activity in a murine astrocyte cell line. Burgher KL, et al. **Neurochem Int** 1997 Apr–May;30(4–5):483–9

Acute and chronic effects of potassium and noradrenaline on Na+, K+–ATPase activity in cultured mouse neurons and astrocytes. Hajek I, et al. **Neurochem Int** 1996 Mar; 28(3):335–42

Differential responsiveness of late passage C–6 glial cells and advanced passages of astrocytes derived from aged mouse cerebral hemispheres to cytokines and growth factors: glutamine synthetase activity. Kazazoglou T, et al. **Neurochem Res** 1996 May;21(5):609–14

Regulation of matrix metalloproteinase expressions in astrocytes, microglia and neurons. Gottschall PE, et al. **Neuroimmunomodulation** 1996 Mar–Jun;3(2–3):69–75 (57 ref.)

Induction of glutamine synthetase by L–alpha–aminoadipate in developmental stages of cultured astrocytes. Koyama Y, et al. **Neurosci Lett** 1997 Feb 14;223(1):65–8

Immunocytochemical localization of cysteine sulfinate decarboxylase in astrocytes in the cerebellum and hippocampus: a quantitative double immunofluorescence study with glial fibrillary acidic protein and S–100 protein. Reymond I, et al. **Neuroscience** 1996 Nov;75(2):619–33

Activation of type III nitric oxide synthase in astrocytes following a neurotropic viral infection. Barna M, et al. **Virology** 1996 Sep 15;223(2):331–43

IMMUNOLOGY

The M22 antibody identifies highly activated reactive astrocytes responding to central nervous system disease. Eddleston M, et al. **Acta Neuropathol (Berl)** 1996; 91(3):298–308

A monoclonal antibody to astrocytes, subepithelial fibroblasts of small intestinal villi and interstitial cells of the myenteric plexus layer. Furuya S, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):113–26

Astrocytes and microglia produce interleukin–12 p40. Constantinescu CS, et al. **Ann N Y Acad Sci** 1996 Oct 31; 795:328–33

Glucocorticoid regulation of in vitro astrocyte phagocytosis. Roldán A, et al. **Biocell** 1997 Apr;21(1):83–9

Cytokine responses induced by Toxoplasma gondii in astrocytes and microglial cells. Fischer HG, et al. **Eur J Immunol** 1997 Jun;27(6):1539–48

Neuronal control of MHC class II inducibility in rat astrocytes and microglia. Neumann H, et al. **Eur J Neurosci** 1996 Dec;8(12):2582–90

Expression of neuronal antigens by astrocytes derived from EGF–generated neuroprogenitor cells. Schinstine M, et al. **Exp Neurol** 1996 Sep;141(1):67–78

Complement regulatory protein expression by a human oligodendrocyte cell line: cytokine regulation and comparison with astrocytes. Gasque P, et al. **Immunology** 1996 Nov;89(3):338–47

Induction of experimental autoimmune encephalomyelitis by CD4+ T cells specific for an astrocyte protein, S100 beta. Kojima K, et al. **J Neural Transm Suppl** 1997;49:43–51 (45 ref.)

Modulation of major histocompatibility complex class I genes by interferon–gamma and ganglioside GT 1b in astrocytes: involvement of protein tyrosine phosphatases. Massa PT, et al. **J Neurochem** 1996 Nov;67(5):1831–9

Recombinant human interleukin 1 beta induces production of prostaglandins in primary human fetal astrocytes and immortalized human fetal astrocyte cultures. Dayton ET, et al. **J Neuroimmunol** 1996 Dec;71(1–2):11–8

Expression of glial antigens in mouse astrocytes: species differences and regulation in vitro. Bambrick LL, et al. **J Neurosci Res** 1996 Nov 1;46(3):305–15

Mouse astrocytes respond to the chemokines MCP–1 and KC, but reverse transcriptase–polymerase chain reaction does not detect mRNA for the KC or new MCP–1 receptor. Heesen M, et al. **J Neurosci Res** 1996 Aug 15; 45(4):382–91

Effect of Theiler's murine encephalomyelitis virus and cytokines on cultured oligodendrocytes and astrocytes. Qi Y, et al. **J Neurosci Res** 1996 Aug 15;45(4):364–74

Role of muIP–10 in interferon–gamma induction of Ia in rat astrocytes. Vanguri P, et al. **Mol Immunol** 1996 Sep; 33(13):1079–87

Inflammation in EAE: role of chemokine/cytokine expression by resident and infiltrating cells. Eng LF, et al. **Neurochem Res** 1996 Apr;21(4):511–25 (133 ref.)

Immunohistochemical investigation of human leukocyte antigen (HLA)–DR–positive astrocytes in adrenoleukodystrophy brain. Katsuragi T, et al. **Neurosci Lett** 1996 Nov 29;219(3):207–10

METABOLISM

Tumor necrosis factor–alpha, microglia and astrocytes in AIDS dementia complex. Seilhean D, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):508–17

Regressive changes of astroglia in white matter lesions in cerebrovascular disease and Alzheimer's disease patients. Tomimoto H, et al. **Acta Neuropathol (Berl)** 1997 Aug; 94(2):146–52

Opiates, glia, and neurotoxicity. Chao CC, et al. **Adv Exp Med Biol** 1996;402:29–33 (20 ref.)

Modulation of extracellular kynurenic acid content by excitatory amino acids in primary cultures of rat astrocytes. Curatolo L, et al. **Adv Exp Med Biol** 1996;398:273–6

Taurine is a substrate of the anion exchanger transport systems. del Río RM, et al. **Adv Exp Med Biol** 1996; 403:401–7

Presence of opiate alkaloid–selective mu3 receptors in cultured astrocytes and in brain and retina. Makman MH, et al. **Adv Exp Med Biol** 1996;402:23–8

Protective effect of taurine against reperfusion injury in cultured rat astrocytes. Matsuda T, et al. **Adv Exp Med Biol** 1996;403:491–7

Identification of AT1 receptors on cultured astrocytes. Tallant EA, et al. **Adv Exp Med Biol** 1996;396:121–9 (42 ref.)

There is not simple method to maintain a constant ethanol concentration in long–term cell culture: keys to a solution applied to the survey of astrocytic ethanol absorption. Eysseric H, et al. **Alcohol** 1997 Mar–Apr;14(2):111–5

Chronic ethanol effects on the expression of phospholipase C isozymes and Gq/11–protein in primary cultures of astrocytes. Pandey SC, et al. **Alcohol** 1996 Sep–Oct; 13(5):487–92

Tumor necrosis factor–alpha expression in the brain during fatal murine cerebral malaria: evidence for production by microglia and astrocytes. Medana IM, et al. **Am J Pathol** 1997 Apr;150(4):1473–86

Mercuric chloride uncouples glutamate uptake from the countertransport of hydroxyl equivalents. Nagaraja TN, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1487–93

Regulation of taurine transport in rat astrocytes by protein kinase C: role of calcium and calmodulin. Tchoumkeu–Nzouessa GC, et al. **Am J Physiol** 1996 Apr; 270(4 Pt 1):C1022–8

Total number of astrocytes in the molecular layer of the dentate gyrus of rats at different ages. Pilegaard K, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):279–85

Increase of glutamate uptake in astrocytes: a possible mechanism of action of volatile anesthetics. Miyazaki H, et al. **Anesthesiology** 1997 Jun;86(6):1359–66; discussion 8A

Astrocytes are one of the main target cells for pituitary adenylate cyclase–activating polypeptide in the central nervous system. Astrocytes are very heterogeneous regarding both basal movement of intracellular free calcium ([Ca2+]i) and the [Ca2+]i response to PACAP at a single cell level. Tatsuno I, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:613–9

Dopaminergic transmitter up–regulation of brain–derived neurotrophic factor (BDNF) and nerve growth factor (NGF) synthesis in mouse astrocytes in culture. Inoue S, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):468–72

A putative tetrapeptide antagonist prevents beta–amyloid–induced long–term elevation of [Ca2+]i in rat astrocytes. Laskay G, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):479–81

Modulation of the glutathione redox state in adult astrocytes. Peuchen S, et al. **Biochem Soc Trans** 1996 Aug;24(3):449S

Effect of astroglial cell swelling on pH of acidic intracellular compartments. Busch GL, et al. **Biochim Biophys Acta** 1996 Dec 4;1285(2):212–8

Astrocytes cultured in vitro produce estradiol–17beta and express aromatase cytochrome P–450 (P–450 AROM) mRNA. Zwain IH, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):338–48

Effects of a low–voltage static electric field on energy metabolism in astrocytes. Huang R, et al. **Bioelectromagnetics** 1997;18(1):77–80

Identification of 5–hydroxytryptamine receptors positively coupled to adenylyl cyclase in rat cultured astrocytes. Hirst WD, et al. **Br J Pharmacol** 1997 Feb;120(3):509–15

Tumour necrosis factor–alpha increases intracellular Ca2+ and induces a depolarization in cultured astroglial cells. Köller H, et al. **Brain** 1996 Dec;119 (Pt 6):2021–7

Isolation and characterization of tightly coupled mitochondria from neurons and astrocytes in primary culture. Almeida A, et al. **Brain Res** 1997 Aug 1; 764(1–2):167–72

bFGF and FGFR–3 immunoreactivity in the rat brain following systemic kainic acid administration at convulsant doses: localization of bFGF and FGFR–3 in reactive astrocytes, and FGFR–3 in reactive microglia. Ballabriga J, et al. **Brain Res** 1997 Mar 28;752(1–2):315–8

Comparison of neurotrophin regulation of human and rat neuropeptide Y (NPY) neurons: induction of NPY production in aggregate cultures derived from rat but not from human fetal brains. Barnea A, et al. **Brain Res** 1996 Sep 2;732(1–2):52–60

Effect of lactic acid on L–glutamate uptake in cultured astrocytes: mechanistic considerations. Bender AS, et al. **Brain Res** 1997 Mar 7;750(1–2):59–66

Effects of ether lipid 1–O–octadecyl–2–methoxy–rac–glycero–3–phosphocholine and its analogs PAF and CPAF on the release of nitric oxide in primary cultures of rat astrocytes. Cardile V, et al. **Brain Res** 1996 Apr 9;715(1–2):98–103

Metallothionein induction by bismuth in neonatal rat primary astrocyte cultures. Cowan K, et al. **Brain Res** 1996 Sep 2;732(1–2):106–12

Involvement of glutathione peroxidase and catalase in the disposal of exogenous hydrogen peroxide by cultured astroglial cells. Dringen R, et al. **Brain Res** 1997 Jun 6; 759(1):67–75

mu–Opioid receptor–induced Ca2+ mobilization and astroglial development: morphine inhibits DNA synthesis and stimulates cellular hypertrophy through a Ca(2+)–dependent mechanism. Hauser KF, et al.

Brain Res 1996 May 13;720(1–2):191–203

Cultured astrocytes express proteins involved in vesicular glutamate release. Jeftinija SD, et al. **Brain Res** 1997 Mar 7;750(1–2):41–7

Glutathione release and catabolism during energy substrate restriction in astrocytes. Juurlink BH, et al. **Brain Res** 1996 Feb 26;710(1–2):229–33

Astrocytes in the aged rat spinal cord fail to increase GFAP mRNA following sciatic nerve axotomy. Kane CJ, et al. **Brain Res** 1997 Jun 6;759(1):163–5

Monoclonal antibody, KK1, recognizes human retinal astrocytes and distinguishes a subtype of astrocytes in mouse brain. Kobayashi K, et al. **Brain Res** 1996 Nov 18; 740(1–2):57–65

Interleukin–6 released in human cerebrospinal fluid following traumatic brain injury may trigger nerve growth factor production in astrocytes. Kossmann T, et al. **Brain Res** 1996 Mar 25;713(1–2):143–52

SC1: a marker for astrocytes in the adult rodent brain is upregulated during reactive astrocytosis. McKinnon PJ, et al. **Brain Res** 1996 Feb 12;709(1):27–36

Insulin–like growth factors and insulin stimulate erythropoietin production in primary cultured astrocytes. Masuda S, et al. **Brain Res** 1997 Jan 23;746(1–2):63–70

SC1, a brain extracellular matrix glycoprotein related to SPARC and follistatin, is expressed by rat cerebellar astrocytes following injury and during development. Mendis DB, et al. **Brain Res** 1996 Aug 19;730(1–2):95–106

The promoting effects of bFGF and astrocyte extracellular matrix on process outgrowth by adult human oligodendrocytes are mediated by protein kinase C. Oh LY, et al. **Brain Res** 1997 May 23;757(2):236–44

Vulnerability to glucose deprivation injury correlates with glutathione levels in astrocytes. Papadopoulos MC, et al. **Brain Res** 1997 Feb 14;748(1–2):151–6

The inhibitory effects of beta–amyloid on glutamate and glucose uptakes by cultured astrocytes. Parpura–Gill A, et al. **Brain Res** 1997 Apr 18;754(1–2):65–71

Characterization of L–alpha–aminoadipic acid transport in cultured rat astrocytes. Tsai MJ, et al. **Brain Res** 1996 Nov 25;741(1–2):166–73

The dephosphorylation of glial fibrillary acidic protein (GFAP) in the immature rat hippocampus is catalyzed mainly by a type 1 protein phosphatase. Vinadé L, et al. **Brain Res** 1996 Sep 2;732(1–2):195–200

Identification of adrenomedullin receptors in cultured rat astrocytes and in neuroblastboma x glioma hybrid cells (NG108–15). Zimmermann U, et al. **Brain Res** 1996 Jun 17;724(2):238–45

Excitatory amino acid regulation of astrocyte proteoglycans. Chisamore B, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):22–8

Differential expression of gangliosides and galactolipids in fetal human oligodendrocytes and astrocytes in culture. Satoh JI, et al. **Brain Res Dev Brain Res** 1996 May 31; 93(1–2):172–81

Appearance of neurofilament subunit epitopes correlates with electrophysiological maturation in cortical embryonic neurons cocultured with mature astrocytes. Steinschneider R, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):15–27

Protein phosphorylation in response to PDGF stimulation in cultured neurons and astrocytes. Zhang FX, et al. **Brain Res Dev Brain Res** 1997 Apr 18;99(2):216–25

Cloning of focal adhesion kinase, pp125FAK, from rat brain reveals multiple transcripts with different patterns of expression. Burgaya F, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):63–73

Variable subcellular localization of a neuron–specific protein during NTera 2 differentiation into post–mitotic human neurons. Carlock L, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):202–12

Transcriptional regulation of the human S100 beta gene. Castets F, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1–2):208–16

Differential induction of heat shock mRNA in oligodendrocytes, microglia, and astrocytes following hyperthermia. Foster JA, et al. **Brain Res Mol Brain Res** 1997 May;45(2):207–18

High frequency transcranial magnetic stimulation mimics the effects of ECS in upregulating astroglial gene expression in the murine CNS. Fujiki M, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):301–8

Regulatory sequences for the transcription of the laminin B2 gene in astrocytes. Kedar V, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):87–98

Differential neuronal and astrocytic expression of transforming growth factor beta isoforms in rat hippocampus following transient forebrain ischemia. Knuckey NW, et al. **Brain Res Mol Brain Res** 1996 Aug; 40(1):1–14

Cultured astrocytes express biglycan, a chondroitin/dermatan sulfate proteoglycan supporting the survival of neocortical neurons. Koops A, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):65–73

Expression of serotonin receptors in human fetal astrocytes and glioma cell lines: a possible role in glioma cell proliferation and migration. Merzak A, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):1–7

Differential expression patterns of GABA transporters (GAT1–3) in the rat olfactory bulb. Nishimura M, et al. **Brain Res Mol Brain Res** 1997 May;45(2):268–74

Evidence for different mechanisms of induction of HSP70i: a comparison of cultured rat cortical neurons with astrocytes. Nishimura RN, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):227–39

Cell–specific expression of beta–amyloid precursor protein isoform mRNAs and proteins in neurons and astrocytes. Rohan de Silva HA, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):147–56

AMPA receptor subunits expressed by single astrocytes in the juvenile mouse hippocampus. Seifert G, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):286–94

Localization of V1a vasopressin receptor mRNA expression in cultured neurons, astroglia, and oligodendroglia of rat cerebral cortex. Yamazaki RS, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):138–40

Expression of L1 in primary astrocytes via a defective herpes simplex virus vector promotes neurite outgrowth and neural cell migration. Yazaki T, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):311–20

Glial cell–specific differences in repair of O6–methylguanine. LeDoux SP, et al. **Cancer Res** 1996 Dec 15;56(24):5615–9

Tenascin–C mRNA and tenascin–C protein immunoreactivity increase in astrocytes after activation by bFGF. Mahler M, et al. **Cell Adhes Commun** 1996 Sep; 4(3):175–86

Metabolism of acetate in rat brain neurons, astrocytes and cocultures: metabolic interactions between neurons and glia cells, monitored by NMR spectroscopy. Brand A, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Jul;43(5):645–57

Analysis of carbon metabolism in cultured cerebellar and cortical astrocytes. Martin M, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Jul;43(5):631–43

Trophic roles of P2 purinoceptors in central nervous system astroglial cells. Abbracchio MP, et al. **Ciba Found Symp** 1996;198:142–7; discussion 147–8 (23 ref.)

Increased immunoreactivities for the basic fibroblast growth factor and its receptor in astrocytes at the site of cerebral lesions and oedematous change in SHR. Kataoka H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S262–4

Production of eicosanoids derived from 20:4n–6 and 20:5n–3 in primary cultures of turbot (Scophthalmus maximus) brain astrocytes in response to platelet activating factor, substance P and interleukin–1 beta. Tocher DR, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):215–22

Regulation of preproenkephalin expression in astrocytes: is there a role for glia–derived opioid peptides in reactive gliosis? McMillian MK, et al. **Crit Rev Neurobiol** 1994; 9(1):91–103 (109 ref.)

Retinal development: communication helps you see the light. Wechsler–Reya RJ, et al. **Curr Biol** 1997 Jul 1;7(7):R433–6 (16 ref.)

Immobilization of primary astrocytes and neurons for online monitoring of biochemical processes by NMR. Alves PM, et al. **Dev Neurosci** 1996;18(5–6):478–83

Studies on fructose metabolism in cultured astroglial cells and control hepatocytes: lack of fructokinase activity and immunoreactivity in astrocytes. Bergbauer K, et al. **Dev Neurosci** 1996;18(5–6):371–9

Molecular identification of astroglial neutral amino acid transport systems. Bröer S. **Dev Neurosci** 1996; 18(5–6):484–91 (60 ref.)

Inhibition of fatty acid beta–oxidation in rat brain cultured astrocytes exposed to the neurotoxin 3–nitropropionic acid. Esfandiari A, et al. **Dev Neurosci** 1997;19(4):312–20

New insights into the compartmentation of glutamate and glutamine in cultured rat brain astrocytes. McKenna MC, et al. **Dev Neurosci** 1996;18(5–6):380–90

[1–13C]glucose metabolism in brain cells: isotopomer analysis of glutamine from cerebellar astrocytes and glutamate from granule cells. Merle M, et al. **Dev Neurosci** 1996; 18(5–6):460–8

Astrocytic lineage analysis by detection of GFAP promoter activity in vitro. Morita N, et al. **Dev Neurosci** 1997; 19(2):210–8

Excitatory amino acids stimulate aerobic glycolysis in astrocytes via an activation of the Na+/K+ ATPase. Pellerin L, et al. **Dev Neurosci** 1996;18(5–6):336–42

Pharmacological and developmental evidence that the potassium–induced stimulation of deoxyglucose uptake in astrocytes is a metabolic manifestation of increased Na(+)–K(+)–ATPase activity. Peng L, et al. **Dev Neurosci** 1996;18(5–6):353–9

Modulation of oxygen–radical–scavenging enzymes by oxidative stress in primary cultures of rat astroglial cells. Pinteaux E, et al. **Dev Neurosci** 1996;18(5–6):397–404

Contribution of astroglia to functionally activated energy metabolism. Sokoloff L, et al. **Dev Neurosci** 1996; 18(5–6):344–52

Astrocyte glucose metabolism under normal and pathological conditions in vitro. Swanson RA, et al. **Dev Neurosci** 1996; 18(5–6):515–21

Use of intracellular versus extracellular specific activities in calculation of glutamine metabolism in astrocytes: effect of dibutyryl cyclic AMP. Zielke HR, et al. **Dev Neurosci** 1996;18(3):224–30

Low concentrations of ethanol inhibits prolactin–induced mitogenesis and cytokine expression in cultured astrocytes. DeVito WJ, et al. **Endocrinology** 1997 Mar;138(3):922–8

Transforming growth factor–beta and astrocytic conditioned medium influence luteinizing hormone–releasing hormone gene expression in the hypothalamic cell line GT1. Galbiati M, et al. **Endocrinology** 1996 Dec;137(12):5605–9

Growth hormone regulates AT–1a angiotensin receptors in astrocytes. Wyse B, et al. **Endocrinology** 1997 Oct; 138(10):4176–80

Clusterin (SGP–2) induction in rat astroglial cells exposed to prion protein fragment 106–126. Chiesa R, et al. **Eur J Neurosci** 1996 Mar;8(3):589–97

Expression of kainate–selective glutamate receptor subunits in glial cells of the adult bovine white matter. García–Barcina JM, et al. **Eur J Neurosci** 1996 Nov; 8(11):2379–87

Involvement of Na+–Ca2+ exchanger in reperfusion–induced delayed cell death of cultured rat astrocytes. Matsuda T, et al. **Eur J Neurosci** 1996 May; 8(5):951–8

Role of thyroid hormone in the morphological differentiation and maturation of astrocytes: temporal correlation with synthesis and organization of actin. Paul S, et al. **Eur J Neurosci** 1996 Nov;8(11):2361–70

Adenosine A1 receptor–mediated inhibition of cyclic AMP accumulation in type–2 but not type–1 rat astrocytes. Peakman MC, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1–3):281–9

Cellular retinaldehyde binding protein in developing retinal astrocytes. Johnson PT, et al. **Exp Eye Res** 1997 May; 64(5):759–66

Leukemia inhibitory factor is expressed in astrocytes following cortical brain injury. Banner LR, et al. **Exp Neurol** 1997 Sep;147(1):1–9

3–Nitropropionic acid increases the intracellular Ca2+ in cultured astrocytes by reverse operation of the Na+–Ca2+ exchanger. Deshpande SB, et al. **Exp Neurol** 1997 May; 145(1):38–45

Altered immunoreactivity for glial fibrillary acidic protein in astrocytes within 1 h after cervical spinal cord injury. Hadley SD, et al. **Exp Neurol** 1997 Aug;146(2):380–7

Astrocytes promote or impair the survival and function of embryonic ventral mesencephalon co–grafts: effects of astrocyte age and expression of recombinant brain–derived neurotrophic factor. Krobert K, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):511–23

Differential effects of Th1 and Th2 derived cytokines on NGF synthesis by mouse astrocytes. Brodie C. **FEBS Lett** 1996 Sep 30;394(2):117–20

A comparative study of arachidonic acid metabolism in rabbit cultured astrocytes and human astrocytoma cells (1321N1). Ishimoto H, et al. **Gen Pharmacol** 1996 Mar;27(2):313–17

Abnormal calcium homeostasis in astrocytes from the trisomy 16 mouse. Bambrick LL, et al. **Glia** 1997 Apr;19(4):352–8

Chronic complement C3 gene expression in the CNS of transgenic mice with astrocyte–targeted interleukin–6 expression. Barnum SR, et al. **Glia** 1996 Oct;18(2):107–17

Induction of astroglial gene expression by experimental seizures in the rat: spatio–temporal patterns of the early stages. Belluardo N, et al. **Glia** 1996 Feb;16(2):174–86

Intracellular pH as a regulatory signal in astrocyte metabolism. Brookes N. **Glia** 1997 Sep;21(1):64–73 (106 ref.)

The 5HT5A serotonin receptor is expressed predominantly by astrocytes in which it inhibits cAMP accumulation: a mechanism for neuronal suppression of reactive astrocytes. Carson MJ, et al. **Glia** 1996 Aug;17(4):317–26

Potentiation of bradykinin–induced inositol phosphates production by cyclic AMP elevating agents and endothelin–1 in cultured astrocytes. Chen CC, et al. **Glia** 1996 Mar;16(3):210–7

Expression of NR1 and NR2A/B subunits of the NMDA receptor in cortical astrocytes. Conti F, et al. **Glia** 1996 Jul;17(3):254–8

Compartmental distribution of sulfated glycosaminoglycans in lateral and medial midbrain astroglial cultures. García–Abreu J, et al. **Glia** 1996 Aug;17(4):339–44

Metabolic trafficking through astrocytic gap junctions. Giaume C, et al. **Glia** 1997 Sep;21(1):114–23 (89 ref.)

Glutamate metabolism is down–regulated in astrocytes during experimental allergic encephalomyelitis. Hardin–Pouzet H, et al. **Glia** 1997 May;20(1):79–85

Differential regulation by cytokines of human astrocyte nitric oxide production. Hu S, et al. **Glia** 1995 Dec;15(4):491–4

Bovine serum albumin and lysophosphatidic acid stimulate calcium mobilization and reversal of cAMP–induced stellation in rat spinal cord astrocytes. Manning TJ Jr, et al. **Glia** 1997 Jun;20(2):163–72

Interleukin–4 down–regulates MHC class II antigens on cultured rat astrocytes. Morga E, et al. **Glia** 1996 Jun; 17(2):175–9

Regulation of energy metabolism by neurotransmitters in astrocytes in primary culture and in an immortalized cell line. Pellerin L, et al. **Glia** 1997 Sep;21(1):74–83

Gap junctions equalize intracellular Na+ concentration in astrocytes. Rose CR, et al. **Glia** 1997 Aug;20(4):299–307

Trafficking between glia and neurons of TCA cycle intermediates and related metabolites. Schousboe A, et al. **Glia** 1997 Sep;21(1):99–105

Energetic demands of the Na+/K+ ATPase in mammalian astrocytes. Silver IA, et al. **Glia** 1997 Sep;21(1):35–45

Glutamate transport and metabolism in astrocytes. Sonnewald U, et al. **Glia** 1997 Sep;21(1):56–63

Endothelin–1 regulates glucose utilization in cultured astrocytes by controlling intercellular communication through gap junctions. Tabernero A, et al. **Glia** 1996 Mar; 16(3):187–95

Blockade of AMPA receptors by nickel in cultured rat astrocytes. Telgkamp P, et al. **Glia** 1996 Feb;16(2):140–6

Isolation of carbohydrate metabolic clones from cultured astrocytes. Vergé V, et al. **Glia** 1996 Nov;18(3):244–54
Quantitation of matrix metalloproteinases in cultured rat astrocytes using the polymerase chain reaction with a multi-competitor cDNA standard. Wells GM, et al. **Glia** 1996 Dec;18(4):332–40
Evaluation of the importance of transamination versus deamination in astrocytic metabolism of [U-13C]glutamate. Westergaard N, et al. **Glia** 1996 Jun;17(2):160–8
Metabolic pathways for glucose in astrocytes. Wiesinger H, et al. **Glia** 1997 Sep;21(1):22–34 (172 ref.)
Immunoreactivity for brain-fatty acid binding protein in gomori-positive astrocytes. Young JK, et al. **Glia** 1996 Mar; 16(3):218–26
Brain metabolism of branched-chain amino acids. Yudkoff M. **Glia** 1997 Sep;21(1):92–8 (54 ref.)
Age-related changes in GFAP-immunoreactive astrocytes in the rat ventral cochlear nucleus. Jalenques I, et al. **Hear Res** 1997 May;107(1-2):113–24
Hormone-mediated positive and negative regulation of a silencer region containing laminin B2 promoter in astrocytes. Kedar V, et al. **Indian J Exp Biol** 1996 Oct; 34(10):939–44
Brain glutamate transporter proteins form homomultimers. Haugeto O, et al. **J Biol Chem** 1996 Nov 1;271(44):27715–22
Spatial patterns of Ca2+ signals define intracellular distribution of a signaling by Ca2+/Calmodulin-dependent protein kinase II. Inagaki N, et al. **J Biol Chem** 1997 Oct 3;272(40):25195–9
A 3' cis-acting element is involved in tumor necrosis factor-alpha gene expression in astrocytes. Kwon J, et al. **J Biol Chem** 1996 Sep 13;271(37):22383–90
Cloning of a putative vesicle transport-related protein, RA410, from cultured rat astrocytes and its expression in ischemic rat brain. Matsuo N, et al. **J Biol Chem** 1997 Jun 27;272(26):16438–44
Expression of GTP-dependent and GTP-independent tissue-type transglutaminase in cytokine-treated rat brain astrocytes [published erratum appears in J Biol Chem 1997 Mar 14;272(11):7565] Monsonego A, et al. **J Biol Chem** 1997 Feb 7;272(6):3724–32
A novel glycosylphosphatidylinositol-anchored form of ceruloplasmin is expressed by mammalian astrocytes. Patel BN, et al. **J Biol Chem** 1997 Aug 8;272(32):20185–90
Induced nitric oxide synthesis is dependent on induced alternatively spliced CAT-2 encoding L-arginine transport in brain astrocytes. Stevens BR, et al. **J Biol Chem** 1996 Sep 27;271(39):24017–22
Changes in cyclin-dependent kinase 2 and p27kip1 accompany glial cell differentiation of central glia-4 cells. Tikoo R, et al. **J Biol Chem** 1997 Jan 3;272(1):442–7
Regulation of CCAAT/enhancer-binding protein family members by stimulation of glutamate receptors in cultured rat cortical astrocytes. Yano S, et al. **J Biol Chem** 1996 Sep 20;271(38):23520–7
Beta-secretase processing of the beta-amyloid precursor protein in transgenic mice is efficient in neurons but inefficient in astrocytes. Zhao J, et al. **J Biol Chem** 1996 Dec 6;271(49):31407–11
Transcription regulation of alpha B-crystallin in astrocytes: analysis of HSF and AP1 activation by different types of physiological stress. Head MW, et al. **J Cell Sci** 1996 May; 109 (Pt 5):1029–39
Expression of ionotropic glutamate receptor subunits in glial cells of the hippocampal CA1 area following transient forebrain ischemia. Gottlieb M, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):290–300
Cortical application of potassium chloride induces the low-molecular weight heat shock protein (Hsp27) in astrocytes. Plumier JC, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):781–90
Eicosanoids and nitric oxide influence induction of reactive gliosis from spreading depression in microglia but not astrocytes. Caggiano AO, et al. **J Comp Neurol** 1996 May 20;369(1):93–108
Ciliary neurotrophic factor stimulates the expression of glial fibrillary acidic protein by brain astrocytes in vivo. Clatterbuck RE, et al. **J Comp Neurol** 1996 Jun 10; 369(4):543–51
Selective distribution of the NMDA-R1 glutamate receptor in astrocytes and presynaptic axon terminals in the nucleus locus coeruleus of the rat brain: an immunoelectron microscopic study. Van Bockstaele EJ, et al. **J Comp Neurol** 1996 Jun 10;369(4):483–96
Endogenous nitric oxide activates prostaglandin F2 alpha production in human microglial cells but not in astrocytes: a study of interactions between eicosanoids, nitric oxide, and superoxide anion (O2-) regulatory pathways. Janabi N, et al. **J Immunol** 1996 Sep 1;157(5):2129–35
IFN-gamma-activated primary murine astrocytes express B7 costimulatory molecules and prime naive antigen-specific T cells. Nikcevich KM, et al. **J Immunol** 1997 Jan 15; 158(2):614–21
Lipopolysaccharide-induced IL-12 expression in the central nervous system and cultured astrocytes and microglia. Stalder AK, et al. **J Immunol** 1997 Aug 1;159(3):1344–51
Functional expression of the CXC-chemokine receptor-4/fusin on mouse microglial cells and astrocytes. Tanabe S, et al. **J Immunol** 1997 Jul 15;159(2):905–11
Induction of nitric oxide synthase inhibits gap junction permeability in cultured rat astrocytes. Bolaños JP, et al. **J Neurochem** 1996 May;66(5):2091–9
Interferon-beta is a potent promoter of nerve growth factor production by astrocytes. Boutros T, et al. **J Neurochem** 1997 Sep;69(3):939–46
beta-Adrenergic stimulation promotes homocysteic acid release from astrocyte cultures: evidence for a role of astrocytes in the modulation of synaptic transmission. Do KQ, et al. **J Neurochem** 1997 Jun;68(6):2386–94
Use of dipeptides for the synthesis of glutathione by astroglia-rich primary cultures. Dringen R, et al. **J Neurochem** 1997 Aug;69(2):868–74
Glutathione content as an indicator for the presence of metabolic pathways of amino acids in astroglial cultures. Dringen R, et al. **J Neurochem** 1996 Oct;67(4):1375–82
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) decreases glutamate uptake in cultured astrocytes. Hazell AS, et al. **J Neurochem** 1997 May;68(5):2216–9
Noradrenaline increases the expression of the proenkephalin gene in cultured astroglial cells by acting on beta 1- and alpha 1-adrenoceptors. Hildebrand B, et al. **J Neurochem** 1996 May;66(5):1860–7
Exposure of astrocytes to hypoxia/reoxygenation enhances expression of glucose-regulated protein 78 facilitating astrocyte release of the neuroprotective cytokine interleukin 6. Hori O, et al. **J Neurochem** 1996 Mar; 66(3):973–9
Nanomolar amyloid beta protein-induced inhibition of cellular redox activity in cultured astrocytes. Kato M, et al. **J Neurochem** 1997 May;68(5):1889–95
Transmitter-induced calcium responses differ in astrocytes acutely isolated from rat brain and in culture. Kimelberg HK, et al. **J Neurochem** 1997 Mar;68(3):1088–98
Alterations in phosphatidylcholine metabolism of stretch-injured cultured rat astrocytes. Lamb RG, et al. **J Neurochem** 1997 May;68(5):1904–10
Oleic acid inhibits gap junction permeability and increases glucose uptake in cultured rat astrocytes. Lavado E, et al. **J Neurochem** 1997 Aug;69(2):721–8
Processing of amyloid precursor protein in human primary neuron and astrocyte cultures. LeBlanc AC, et al. **J Neurochem** 1997 Mar;68(3):1183–90
Metabotropic glutamate receptors increase amyloid precursor protein processing in astrocytes: inhibition by cyclic AMP. Lee RK, et al. **J Neurochem** 1997 May;68(5):1830–5
Net glutamate release from astrocytes is not induced by extracellular potassium concentrations attainable in brain. Longuemare MC, et al. **J Neurochem** 1997 Aug; 69(2):879–82
Exposure of astrocytes to thrombin reduces levels of the metabotropic glutamate receptor mGluR5. Miller S, et al. **J Neurochem** 1996 Oct;67(4):1435–47
Brain microvascular and astrocyte localization of P-glycoprotein. Pardridge WM, et al. **J Neurochem** 1997 Mar;68(3):1278–85
Regulation of alpha 2A-adrenergic receptor mRNA in rat astroglial cultures: role of cyclic AMP and protein kinase C. Reutter MA, et al. **J Neurochem** 1997 Jan;68(1):47–57
Insulin promotes the hydrolysis of a glycosyl phosphatidylinositol in cultured rat astroglial cells. Ruiz-Albusac JM, et al. **J Neurochem** 1997 Jan;68(1):10–9
Glutathione efflux from cultured astrocytes. Sagara J, et al. **J Neurochem** 1996 May;66(5):1876–81
Endothelin evokes efflux of glutamate in cultures of rat astrocytes. Sasaki Y, et al. **J Neurochem** 1997 May; 68(5):2194–200
Stimulation of interleukin-6 secretion and gene transcription in primary astrocytes by adenosine. Schwaninger M, et al. **J Neurochem** 1997 Sep;69(3):1145–50
Comparison of type 2 inositol 1,4,5-trisphosphate receptor distribution and subcellular Ca2+ release sites that support Ca2+ waves in cultured astrocytes. Sheppard CA, et al. **J Neurochem** 1997 Jun;68(6):2317–27
Cerebral astrocytes transport ascorbic acid and dehydroascorbic acid through distinct mechanisms regulated by cyclic AMP. Siushansian R, et al. **J Neurochem** 1997 Jun;68(6):2378–85
Osmotic swelling stimulates ascorbate efflux from cerebral astrocytes. Siushansian R, et al. **J Neurochem** 1996 Mar; 66(3):1227–33
Portacaval anastomosis results in altered neuron--astrocytic metabolic trafficking of amino acids: evidence from 13C-NMR studies. Sonnewald U, et al. **J Neurochem** 1996 Oct;67(4):1711–7
Metabolism of [U-13C5] glutamine in cultured astrocytes studied by NMR spectroscopy: first evidence of astrocytic pyruvate recycling. Sonnewald U, et al. **J Neurochem** 1996 Dec;67(6):2566–72
Role of Na(+)-Ca2+ exchanger in agonist-induced Ca2+ signaling in cultured rat astrocytes. Takuma K, et al. **J Neurochem** 1996 Nov;67(5):1840–5
Effects of ketone bodies on astrocyte amino acid metabolism. Yudkoff M, et al. **J Neurochem** 1997 Aug;69(2):682–92
Transient increase of tenascin-C in immature hippocampus: astroglial and neuronal expression. Ferhat L, et al. **J Neurocytol** 1996 Jan;25(1):53–66
Identification and characterization of angiotensinIV binding sites in rat neurone and astrocyte cell cultures. Greenland K, et al. **J Neuroendocrinol** 1996 Sep;8(9):687–93
Induction of RANTES expression by astrocytes and astrocytoma cell lines. Barnes DA, et al. **J Neuroimmunol** 1996 Dec;71(1-2):207–14
Differential regulation of cytokine-induced major histocompatibility complex class II expression and nitric oxide release in rat microglia and astrocytes by effectors of tyrosine kinase, protein kinase C, and cAMP. Hellendall RP, et al. **J Neuroimmunol** 1997 Apr;74(1-2):19–29
Complement expression on astrocytes and astrocytoma cell lines: failure of complement regulation at the C3 level correlates with very low CD55 expression. Spiller OB, et al. **J Neuroimmunol** 1996 Dec;71(1-2):97–106
Astroglial overproduction of TGF-beta 1 enhances inflammatory central nervous system disease in transgenic mice . Wyss-Coray T, et al. **J Neuroimmunol** 1997 Jul; 77(1):45–50
Astrocyte-apolipoprotein E associations in senile plaques in Alzheimer disease and vascular lesions: a regional immunohistochemical study. Shao Y, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):376–81
Adenosine A1 receptor-mediated activation of phospholipase C in cultured astrocytes depends on the level of receptor expression. Biber K, et al. **J Neurosci** 1997 Jul 1; 17(13):4956–64
Intracellular calcium transients and potassium current oscillations evoked by glutamate in cultured rat astrocytes. Chen J, et al. **J Neurosci** 1997 Oct 1;17(19):7278–87
Differential regulation of ciliary neurotrophic factor (CNTF) and CNTF receptor alpha expression in astrocytes and neurons of the fascia dentata after entorhinal cortex lesion. Lee MY, et al. **J Neurosci** 1997 Feb 1;17(3):1137–46
GAT-3, a high-affinity GABA plasma membrane transporter, is localized to astrocytic processes, and it is not confined to the vicinity of GABAergic synapses in the cerebral cortex. Minelli A, et al. **J Neurosci** 1996 Oct 1;16(19):6255–64
Extracellular synthesis of cADP-ribose from nicotinamide-adenine dinucleotide by rat cortical astrocytes in culture. Pawlikowska L, et al. **J Neurosci** 1996 Sep 1;16(17):5372–81
Tissue inhibitor of metalloproteinases-1 (TIMP-1) is differentially induced in neurons and astrocytes after seizures: evidence for developmental, immediate early gene, and lesion response. Rivera S, et al. **J Neurosci** 1997 Jun 1;17(11):4223–35
Release of [3H]-D-aspartate from primary astrocyte cultures in response to raised external potassium. Rutledge EM, et al. **J Neurosci** 1996 Dec 15;16(24):7803–11
Neuronal regulation of glutamate transporter subtype expression in astrocytes. Swanson RA, et al. **J Neurosci** 1997 Feb 1;17(3):932–40
Murine astrocytes express a functional chemokine receptor. Tanabe S, et al. **J Neurosci** 1997 Sep 1;17(17):6522–8
The brain chondroitin sulfate proteoglycan brevican associates with astrocytes ensheathing cerebellar glomeruli and inhibits neurite outgrowth from granule neurons. Yamada H, et al. **J Neurosci** 1997 Oct 15;17(20):7784–95
Upregulation of F-actin and alpha-actinin in reactive astrocytes. Abd-El-Basset EM, et al. **J Neurosci Res** 1997 Sep 1;49(5):608–16
NMR spectroscopy study of the effect of 3-nitropropionic acid on glutamate metabolism in cultured astrocytes. Bakken IJ, et al. **J Neurosci Res** 1997 Mar 15;47(6):642–9
Regulation by calcium of the nitric oxide/cyclic GMP system in cerebellar granule cells and astroglia in culture. Baltrons MA, et al. **J Neurosci Res** 1997 Aug 1;49(3):333–41
Effects of phenylsuccinate on potassium-stimulated taurine release in cultured neurons and astrocytes and in rat hippocampus in vivo. Bruhn T, et al. **J Neurosci Res** 1996 Oct 15;46(2):198–203
Ganglioside GD3 in radial glia and astrocytes in situ in brains of young and adult mice. Cammer W, et al. **J Neurosci Res** 1996 Oct 1;46(1):18–23
Increased expression of the neurofibromatosis 1 (NF1) gene product, neurofibromin, in astrocytes in response to cerebral ischemia. Giordano MJ, et al. **J Neurosci Res** 1996 Jan 15;43(2):246–53
Reduction of hippocampal long-term potentiation in transgenic mice ectopically expressing the neural cell adhesion molecule L1 in astrocytes. Lüthi A, et al. **J Neurosci Res** 1996 Oct 1;46(1):1–6
Differential expression of rab3 isoforms in oligodendrocytes and astrocytes. Madison DL, et al. **J Neurosci Res** 1996 Aug 1;45(3):258–68
Transcriptional regulation of chemokine gene expression in astrocytes. Majumder S, et al. **J Neurosci Res** 1996 Sep 15;45(6):758–69 (79 ref.)
Overexpression of E2F1 in astrocytes leads to neoplastic transformation and changes in expression of retinoblastoma family members. Miyajima M, et al. **J Neurosci Res** 1996 Oct 1;46(1):108–13
Rat oligodendrocytes and astrocytes preferentially express fibroblast growth factor receptor-2 and -3 mRNAs. Miyake A, et al. **J Neurosci Res** 1996 Sep 1;45(5):534–41
Regulation of connexin-43, GFAP, and FGF-2 is not accompanied by changes in astroglial coupling in MPTP-lesioned, FGF-2-treated parkinsonian mice. Rufer M, et al. **J Neurosci Res** 1996 Dec 1;46(5):606–17
Effects of ATP on phosphoinositide hydrolysis and prostaglandin E2 generation in rabbit astrocytes. Ishimoto H, et al. **J Pharm Pharmacol** 1997 May;49(5):520–4
Chronic antidepressant exposure enhances 5-hydroxytryptamine7 receptor-mediated cyclic adenosine monophosphate accumulation in rat frontocortical astrocytes. Shimizu M, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1551–8
Molecular determinants for cellular uptake of Tat protein

of human immunodeficiency virus type 1 in brain cells. Ma M, et al. **J Virol** 1997 Mar;71(3):2495–9

AP–1 derived from mature monocytes and astrocytes preferentially interacts with the HTLV–I promoter central 21 bp repeat. Wessner R, et al. **Leukemia** 1997 Apr;11 Suppl 3:21–4

Characterization of beta–adrenergic receptors of freshly isolated astrocytes and neurons from rat brain. Morin D, et al. **Life Sci** 1997;60(4–5):315–24

Effect of 6–aminonicotinamide on metabolism of astrocytes and C6–glioma cells. Haghighat N, et al. **Metab Brain Dis** 1996 Mar;12(1):29–45

Coupling of the thrombin receptor to G12 may account for selective effects of thrombin on gene expression and DNA synthesis in 1321N1 astrocytoma cells. Post GR, et al. **Mol Biol Cell** 1996 Nov;7(11):1679–90

The contribution of astrocytes to the 18F–2–deoxyglucose signal in PET activation studies. Magistretti PJ, et al. **Mol Psychiatry** 1996 Dec;1(6):445–52 (92 ref.)

Synthesis and secretion of active alpha 1–antichymotrypsin by murine primary astrocytes. Kanemaru K, et al. **Neurobiol Aging** 1996 Sep–Oct;17(5):767–71

Astrocytes, brain aging, and neurodegeneration. Langston W. **Neurobiol Aging** 1996 May–Jun;17(3):483–5; discussion 488–90

Elusive roles for astrocytes in neurodegenerative disorders. Mattson MP, et al. **Neurobiol Aging** 1996 May–Jun; 17(3):485–7; discussion 488–90

Astrocytes, brain aging, and neurodegeneration. Schipper HM. **Neurobiol Aging** 1996 May–Jun;17(3):467–80 (109 ref.)

Human brain S100 beta and S100 beta mRNA expression increases with age: pathogenic implications for Alzheimer's disease. Sheng JG, et al. **Neurobiol Aging** 1996 May–Jun; 17(3):359–63

Re–expression of the intermediate filament nestin in reactive astrocytes. Lin RCS, et al. **Neurobiol Dis** 1995 Apr; 2(2):79–85

Dephosphorylation of 2–deoxyglucose 6–phosphate and 2–deoxyglucose export from cultured astrocytes. Forsyth RJ, et al. **Neurochem Int** 1996 Mar;28(3):243–50

Okadaic acid stimulates nerve growth factor production via an induction of interleukin–1 in primary cultures of cortical astroglial cells. Pshenichkin SP, et al. **Neurochem Int** 1997 Apr–May;30(4–5):507–14

The rapid L– and D–aspartate uptake in cultured astrocytes. Bender AS, et al. **Neurochem Res** 1997 Jun;22(6):721–6

Effects of ammonia on L–glutamate uptake in cultured astrocytes. Bender AS, et al. **Neurochem Res** 1996 May; 21(5):567–73

Interactions of triethyltin–chloride (TET) with the energy metabolism of cultured rat brain astrocytes: studies by multinuclear magnetic resonance spectroscopy. Brand A, et al. **Neurochem Res** 1997 Feb;22(2):123–31

ATP–induced oscillations of cytosolic Ca2+ activity in cultured astrocytes from rat brain are modulated by medium osmolarity indicating a control of [Ca2+]i oscillations by cell volume. Reetz G, et al. **Neurochem Res** 1997 May;22(5):621–8

Identification of mRNAs regulated by interferon–gamma in cultured rat astrocytes by PCR differential display. Kuchinke W, et al. **Neuroimmunomodulation** 1995 Nov–Dec;2(6):347–55

The LHRH–astroglial network of signals as a model to study neuroimmune interactions: assessment of messenger systems and transduction mechanisms at cellular and molecular levels. Marchetti B. **Neuroimmunomodulation** 1996 Jan–Feb;3(1):1–27 (179 ref.)

Immunocytochemically detectable metallothionein is expressed by astrocytes in the ischaemic human brain. Neal JW, et al. **Neuropathol Appl Neurobiol** 1996 Jun;22(3):243–7

Astrocytic adhesion molecules are increased in HIV–1–associated cognitive/motor complex. Seilhean D, et al. **Neuropathol Appl Neurobiol** 1997 Apr;23(2):83–92

Glutamate receptor agonists up–regulate glutamate transporter GLAST in astrocytes. Gegelashvili G, et al. **Neuroreport** 1996 Dec 20;8(1):261–5

Presence of glutathione immunoreactivity in cultured neurones and astrocytes. Langeveld CH, et al. **Neuroreport** 1996 Jul 29;7(11):1833–6

Interleukin–15 gene expression in human astrocytes and microglia in culture. Lee YB, et al. **Neuroreport** 1996 Apr 10;7(5):1062–6

Extracellular ATP induces formation of AP–1 complexes in astrocytes via P2 purinoceptors. Neary JT, et al. **Neuroreport** 1996 Nov 25;7(18):2893–6

Over–expression of HSP–70 protects astrocytes from combined oxygen–glucose deprivation. Papadopoulos MC, et al. **Neuroreport** 1996 Jan 31;7(2):429–32

L–deprenyl potentiates cAMP–induced elevation of FGF–2 mRNA levels in rat cortical astrocytes. Riva MA, et al. **Neuroreport** 1997 Jul 7;8(9–10):2165–8

Selective induction of c–Jun and NGF in reactive astrocytes after cholinergic degenerations in rat basal forebrain. Rossner S, et al. **Neuroreport** 1997 Jul 7;8(9–10):2199–202

Expression of calbindin–D28K by reactive astrocytes in gerbil hippocampus after ischaemia. Toyoshima T, et al. **Neuroreport** 1996 Sep 2;7(13):2087–91

Associative learning down–regulates PKC beta 2– and gamma–immunoreactivity in astrocytes. Van der Zee EA, et al. **Neuroreport** 1996 Nov 4;7(15–17):2753–6

Vasoactive intestinal polypeptide–like immunoreactivity in astrocytes of the human brain. Virgintino D, et al. **Neuroreport** 1996 Jul 8;7(10):1577–81

Astroglial acid–base dynamics in hyperglycemic and normoglycemic global ischemia. Lascola C, et al. **Neurosci Biobehav Rev** 1997 Mar;21(2):143–50 (58 ref.)

Carnosine–synthesis in cultures of rat glial cells is restricted to oligodendrocytes and carnosine uptake to astrocytes. Hoffmann AM, et al. **Neurosci Lett** 1996 Aug 30; 215(1):29–32

Glial fibrillary acidic protein (GFAP) immunochemical profile after junin virus infection of rat cultured astrocytes. Iacono RF, et al. **Neurosci Lett** 1995 Nov 24;200(3):175–8

Astroglial cells inhibit the increasing permeability of brain endothelial cell monolayer following hypoxia/reoxygenation. Kondo T, et al. **Neurosci Lett** 1996 Apr 19;208(2):101–4

Differential response in the release of hydrogen peroxide between astroglial cells and endothelial cells following hypoxia/reoxygenation. Kondo T, et al. **Neurosci Lett** 1996 Sep 6;215(2):103–6

Different preferences in the utilization of amino acids for glutathione synthesis in cultured neurons and astroglial cells derived from rat brain. Kranich O, et al. **Neurosci Lett** 1996 Nov 29;219(3):211–4

Impaired Ca–signaling in astrocytes from the Ts16 mouse model of Down syndrome. Müller W, et al. **Neurosci Lett** 1997 Feb 21;223(2):81–4

HSP70 protects murine astrocytes from glucose deprivation injury. Xu L, et al. **Neurosci Lett** 1997 Mar 7;224(1):9–12

A chronological study of the expression of glial fibrillary acidic protein and calbindin–D28 k by reactive astrocytes in the electrically lesioned rat brain. Ahmed BY, et al. **Neurosci Res** 1996 Nov;26(3):271–8

Dorsal rhizotomy induces transient expression of the highly sialylated isoform of the neural cell adhesion molecule in neurons and astrocytes of the adult rat spinal cord. Bonfanti L, et al. **Neuroscience** 1996 Oct;74(3):619–23

P2 purinoceptors in rat cortical astrocytes: expression, calcium–imaging and signalling studies. King BF, et al. **Neuroscience** 1996 Oct;74(4):1187–96

Evidence for the co–localization of another connexin with connexin–43 at astrocytic gap junctions in rat brain. Nagy JI, et al. **Neuroscience** 1997 May;78(2):533–48

Connexin–43 in rat spinal cord: localization in astrocytes and identification of heterotypic astro–oligodendrocytic gap junctions. Ochalski PA, et al. **Neuroscience** 1997 Feb; 76(3):931–45

Energy metabolism of adult astrocytes in vitro. Peuchen S, et al. **Neuroscience** 1996 Apr;71(3):855–70

Mechanisms of intracellular calcium regulation in adult astrocytes. Peuchen S, et al. **Neuroscience** 1996 Apr; 71(3):871–83

Release of ATP from cultured rat astrocytes elicited by glutamate receptor activation. Queiroz G, et al. **Neuroscience** 1997 Jun;78(4):1203–8

The transforming activities of MDM2 in cultured neonatal rat astrocytes. Kondo S, et al. **Oncogene** 1996 Oct 17; 13(8):1773–9

Binding of CNP–22 and CNP–53 to cultured mouse astrocytes and effects on cyclic GMP. Yeung VT, et al. **Peptides** 1996;17(1):101–6

Na+ pump low and high ouabain affinity alpha subunit isoforms are differently distributed in cells. Juhaszova M, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1800–5

Transcription factor NF–kappaB is activated in primary neurons by amyloid beta peptides and in neurons surrounding early plaques from patients with Alzheimer disease. Kaltschmidt B, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2642–7

Stimulation of amyloid precursor protein synthesis by adrenergic receptors coupled to cAMP formation. Lee RKK, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):5422–6

Endothelin peptides in brain diseases. Nie XJ, et al. **Rev Neurosci** 1996 Jul–Sep;7(3):177–86 (70 ref.)

Human brain endothelial cells and astrocytes produce IL–1 beta but not IL–10. Corsini E, et al. **Scand J Immunol** 1996 Nov;44(5):506–11

Functional role of high–affinity anandamide transport, as revealed by selective inhibition. Beltramo M, et al. **Science** 1997 Aug 22;277(5329):1094–7

Spatially and functionally distinct Ca2+ stores in sarcoplasmic and endoplasmic reticulum. Golovina VA, et al. **Science** 1997 Mar 14;275(5306):1643–8

Calcium waves in retinal glial cells. Newman EA, et al. **Science** 1997 Feb 7;275(5301):844–7

Short– and long–term changes in striatal neurons and astroglia after transient forebrain ischemia in rats. Zoli M, et al. **Stroke** 1997 May;28(5):1049–58; discussion 1059

[Glial cells–derived neurotrophic factors] Nakajima K, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):489–95 (20 ref.) **(Jpn)**

PARASITOLOGY

Compromised blood–nerve barrier, astrogliosis, and myelin disruption in optic nerves during fatal murine cerebral malaria. Ma N, et al. **Glia** 1997 Feb;19(2):135–51

Growth and development of Toxoplasma gondii in human neurons and astrocytes. Halonen SK, et al. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1150–6

Influence of cytokines on Toxoplasma gondii growth in human astrocytoma–derived cells. Pelloux H, et al. **Parasitol Res** 1996;82(7):598–603

PATHOLOGY

Expression of the receptor for complement C5a (CD88) is up–regulated on reactive astrocytes, microglia, and endothelial cells in the inflamed human central nervous system. Gasque P, et al. **Am J Pathol** 1997 Jan;150(1):31–41

Pathological characterization of astrocytic hyaline inclusions in familial amyotrophic lateral sclerosis. Kato S, et al. **Am J Pathol** 1997 Aug;151(2):611–20

Hypoxia–ischemia causes abnormalities in glutamate transporters and death of astroglia and neurons in newborn striatum. Martin LJ, et al. **Ann Neurol** 1997 Sep; 42(3):335–48

Differences between phosphotyrosine accumulation and Neu/ErbB–2 receptor expression in astrocytic proliferative processes. Implications for glial oncogenesis [published erratum appears in Cancer 1997 Feb 1;79(3):633–4] Kristt DA, et al. **Cancer** 1996 Sep 15;78(6):1272–83

Astrocytes in kindling: relevance to epileptogenesis. Khurgel M, et al. **Epilepsy Res** 1996 Dec;26(1):163–75 (72 ref.)

Laminar damage of neurons and astrocytes in neocortex and hippocampus of rat after long–lasting status epilepticus induced by pilocarpine. Schmidt–Kastner R, et al. **Epilepsy Res Suppl** 1996;12:309–16

Rapid astroglial reactions in the motor cortex of adult rats following peripheral facial nerve lesions. Laskawi R, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):81–5

Effect of astroglial degeneration on neonatal blood–brain barrier marker expression. Krum JM. **Exp Neurol** 1996 Nov;142(1):29–35

Expression of blood–brain barrier characteristics following neuronal loss and astroglial damage after administration of anti–Thy–1 immunotoxin. Krum JM, et al. **Exp Neurol** 1997 Jul;146(1):33–45

Flow cytometric analysis of major histocompatibility complex (MHC) class II antigen expression on brain cells from Borna disease virus–infected rats without an intervening in vitro culture step. Rubin SA, et al. **Exp Neurol** 1997 Jul;146(1):286–90

A subpopulation of reactive astrocytes at the immediate site of cerebral cortical injury. Yang HY, et al. **Exp Neurol** 1997 Jul;146(1):199–205

Trypanosoma brucei brucei: a long–term model of human African trypanosomiasis in mice, meningo–encephalitis, astrocytosis, and neurological disorders. Keita M, et al. **Exp Parasitol** 1997 Feb;85(2):183–92

Intermediate filament change in astrocytes following mild cortical contusion. Baldwin SA, et al. **Glia** 1996 Mar; 16(3):266–75

Lens–specific expression of PDGF–A in transgenic mice results in retinal astrocytic hamartomas. Reneker LW, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2455–66

Apoptosis induced by HIV–1 infection of the central nervous system. Shi B, et al. **J Clin Invest** 1996 Nov 1;98(9):1979–90

Connexin43 and astrocytic gap junctions in the rat spinal cord after acute compression injury. Theriault E, et al. **J Comp Neurol** 1997 Jun 2;382(2):199–214

Astrocyte–specific but not neuron–specific transmembrane TNF triggers inflammation and degeneration in the central nervous system of transgenic mice. Akassoglou K, et al. **J Immunol** 1997 Jan 1;158(1):438–45

The CDK inhibitor, p27Kip1, is required for IL–4 regulation of astrocyte proliferation. Liu J, et al. **J Immunol** 1997 Jul 15;159(2):812–9

Effect of Ca2+ on in vitro astrocyte injury. Rzigalinski BA, et al. **J Neurochem** 1997 Jan;68(1):289–96

Reactive astrogliosis of the spinal cord in amyotrophic lateral sclerosis. Schiffer D, et al. **J Neurol Sci** 1996 Aug;139 Suppl:27–33

Quantitative chromatin pattern description in Feulgen–stained nuclei as a diagnostic tool to characterize the oligodendroglial and astroglial components in mixed oligo–astrocytomas. Decaestecker C, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):391–402

Regional heterogeneity in the response of astrocytes following traumatic brain injury in the adult rat. Hill SJ, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1221–9

Familial amyotrophic lateral sclerosis with a two base pair deletion in superoxide dismutase 1: gene multisystem degeneration with intracytoplasmic hyaline inclusions in astrocytes. Kato S, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1089–101

Glial–neuronal interactions in Alzheimer disease: progressive association of IL–1alpha+ microglia and S100beta+ astrocytes with neurofibrillary tangle stages. Sheng JG, et al. **J Neuropathol Exp Neurol** 1997 Mar;56(3):285–90

Role of glial filaments in cells and tumors of glial origin: a review. Rutka JT, et al. **J Neurosurg** 1997 Sep; 87(3):420–30 (122 ref.)

Role of gemistocytes in astrocytoma progression. Watanabe K, et al. **Lab Invest** 1997 Feb;76(2):277–84

Retinal pathology in Alzheimer's disease. II. Regional neuron loss and glial changes in GCL. Blanks JC, et al. **Neurobiol Aging** 1996 May–Jun;17(3):385–95

Characterization of glial cultures from rapid autopsies of Alzheimer's and control patients. Lue LF, et al. **Neurobiol Aging** 1996 May–Jun;17(3):421–9

The influence of gastrin and/or cholecystokinin antagonists on the proliferation of three human astrocytic tumor cell lines. Camby I, et al. **Neuropeptides** 1996 Oct;30(5):433–7

Advanced glycation modification of Rosenthal fibers in patients with Alexander disease. Castellani RJ, et al. **Neurosci Lett** 1997 Aug 8;231(2):79–82

Purkinje cell loss and astrocytosis in the cerebellum in familial and sporadic Alzheimer's disease. Fukutani Y, et al. **Neurosci Lett** 1996 Aug 16;214(1):33–6

Anticoagulant factor protein S inhibits the proliferation of rat astrocytes after injury. Tomobe YI, et al. **Neurosci Lett** 1996 Aug 16;214(1):57–60

Astrocytic reaction in long–term resuscitation. Fassina G, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):77–82

Aicardi syndrome: a morphologic description with particular reference to intracytoplasmic inclusions in cortical astrocytes. Buchino JJ, et al. **Pediatr Pathol Lab Med** 1996 Mar–Apr;16(2):285–91

Astrocytic–ammonia interactions in hepatic encephalopathy. Norenberg MD. **Semin Liver Dis** 1996 Aug;16(3):245–53 (165 ref.)

Alterations in glia and axons in the brains of Binswanger's disease patients. Akiguchi I, et al. **Stroke** 1997 Jul; 28(7):1423–9

[Isolation, culture and characterization of astrocytes from adult monkey brains] Guillemin G, et al. **C R Seances Soc Biol Fil** 1996;190(5–6):595–601 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Remote astroglial response associated with synaptic degeneration results in a net increase of perisynaptic glial fibrillary acidic protein. Hajós F, et al. **Acta Biol Hung** 1996;47(1–4):173–9

Neuronal integrity and astrocytic reaction in cold injury: an immunohistochemical investigation. Maeda M, et al. **Acta Neuropathol (Berl)** 1997 Aug;94(2):116–23

Observations on the pathology of several types of human spinal cord injury, with emphasis on the astrocyte response to penetrating injuries. Bunge RP, et al. **Adv Neurol** 1997; 72:305–15

In situ hybridization analysis of glial fibrillary acidic protein mRNA reveals evidence of biphasic astrocyte activation during acute experimental autoimmune encephalomyelitis. Tani M, et al. **Am J Pathol** 1996 Mar;148(3):889–96

Changes of actin cytoskeleton during swelling and regulatory volume decrease in cultured astrocytes. Morán J, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1901–7

Shrinkage–induced activation of Na+/H+ exchange: role of cell density and myosin light chain phosphorylation. Shrode LD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1968–79

IL–6 secreted by astroglial cells regulates Na–K–Cl cotransport in brain microvessel endothelial cells. Sun D, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1829–35

Astroglial–mediated phosphorylation of the Na–K–Cl cotransporter in brain microvessel endothelial cells. Sun D, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C620–7

Vasoactive intestinal peptide releases interleukin–1 from astrocytes. Brenneman DE, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:280–7; discussion 287–9

Nitric oxide regulates nitric oxide synthase–2 gene expression by inhibiting NF–kappaB binding to DNA. Park SK, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):609–13

Postnatal retinal ganglion cells in vitro: protection against reactive oxygen species (ROS)–induced axonal degeneration by cocultured astrocytes. Lucius R, et al. **Brain Res** 1996 Dec 16;743(1–2):56–62

Vulnerability to glucose deprivation injury correlates with glutathione levels in astrocytes. Papadopoulos MC, et al. **Brain Res** 1997 Feb 14;748(1–2):151–6

Heat shock protects cultured rat astrocytes in a model of reperfusion injury. Takuma K, et al. **Brain Res** 1996 Oct 7;735(2):265–70

Inhibition of regulatory volume decrease in swollen rat primary astrocyte cultures by methylmercury is due to increased amiloride–sensitive Na+ uptake. Vitarella D, et al. **Brain Res** 1996 Sep 2;732(1–2):169–78

Monitoring the temporal and spatial activation pattern of astrocytes in focal cerebral ischemia using in situ hybridization to GFAP mRNA: comparison with sgp–2 and hsp70 mRNA and the effect of glutamate receptor antagonists. Yamashita K, et al. **Brain Res** 1996 Oct 7; 735(2):285–97

Plasticity of astrocytes derived from aged mouse cerebral hemispheres: changes with cell passage and immortalization. Grove J, et al. **Brain Res Bull** 1996; 39(4):211–7

Immunocytochemical analyses of astrocyte development in the olfactory bulb. Chiu K, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):28–37

Gliogenesis in postnatal rat optic nerve: LC1 + microglia and S100–beta + astrocytes. Zhang MZ, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):27–36

Expression and functional role of the Id HLH family in cultured astrocytes. Tzeng SF, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):136–42

Recruitment of brain macrophages: roles of cytokines and extracellular matrix proteins produced by glial or neuronal cells. Maliat M, et al. **Braz J Med Biol Res** 1996 Sep; 29(9):1173–7

Gonadal steroids and astroglial plasticity. Garcia–Segura LM, et al. **Cell Mol Neurobiol** 1996 Apr;16(2):225–37 (80 ref.)

Astrocytes and regenerating axons at the proximal stump of the severed frog optic nerve. Blanco RE, et al. **Cell Tissue Res** 1996 Dec;286(3):337–45

Expression and regulation of glial–cell–line–derived neurotrophic factor (GDNF) mRNA in human astrocytes in vitro. Moretto G, et al. **Cell Tissue Res** 1996 Nov; 286(2):257–62

Cellular bases of brain energy metabolism and their relevance to functional brain imaging: evidence for a prominent role of astrocytes. Magistretti PJ, et al. **Cereb Cortex** 1996 Jan–Feb;6(1):50–61 (136 ref.)

GFAP gene expression during development of astrocyte. Baba H, et al. **Dev Neurosci** 1997;19(1):49–57 (25 ref.)

A role for astrocytes in glucose delivery to neurons? Forsyth R, et al. **Dev Neurosci** 1996;18(5–6):360–70 (74 ref.)

Influence of basic fibroblast growth factor and astroglial cells on the ultrastructure of developing rat brain neuronal precursors in vitro. Miehe M, et al. **Dev Neurosci** 1996; 18(3):210–23

Astrocytes may contribute to the latent period in progressive neuron loss, axon sprouting, and chronic seizures in rat kainate hippocampal epilepsy. Babb TL, et al. **Epilepsy Res Suppl** 1996;12:343–54

Adult nestin–expressing subependymal cells differentiate to astrocytes in response to brain injury. Holmin S, et al. **Eur J Neurosci** 1997 Jan;9(1):65–75

Bone morphogenetic proteins: neurotrophic roles for midbrain dopaminergic neurons and implications of astroglial cells. Jordan J, et al. **Eur J Neurosci** 1997 Aug; 9(8):1699–709

Neurite outgrowth on non–permissive substrates in vitro is enhanced by ectopic expression of the neural adhesion molecule L1 by mouse astrocytes. Mohajeri MH, et al. **Eur J Neurosci** 1996 Jun;8(6):1085–97

Interactions between astrocytes and oligodendroglia in human and experimental Creutzfeldt–Jakob disease and scrapie. Liberski PP, et al. **Exp Neurol** 1997 Mar; 144(1):227–34

HIV–1 gp120 glycoprotein affects the astrocyte control of extracellular glutamate by both inhibiting the uptake and stimulating the release of the amino acid. Vesce S, et al. **FEBS Lett** 1997 Jul 7;411(1):107–9

The role of astroglial cell–derived nitric oxide and prostanoids in neurodegenerative disorders. Mollace V, et al. **Funct Neurol** 1997 May–Aug;12(3–4):199–203 (24 ref.)

Analysis of ion channel expression by astrocytes in red nucleus brain stem slices of the rat. Akopian G, et al. **Glia** 1997 Mar;19(3):234–46

Astrocyte reactivity in neonatal mice: apparent dependence on the presence of reactive microglia/macrophages. Balasingam V, et al. **Glia** 1996 Sep;18(1):11–26

Astrocytes and microglial cells incorporate degenerating fibers following entorhinal lesion: a light, confocal, and electron microscopical study using a phagocytosis–dependent labeling technique. Bechmann I, et al. **Glia** 1997 Jun;20(2):145–54

Angiostatic role of astrocytes: suppression of vascular endothelial cell growth by TGF–beta and other inhibitory factor(s). Behzadian MA, et al. **Glia** 1995 Dec;15(4):480–90

Astrocyte activation by Sindbis virus: expression of GFAP, cytokines, and adhesion molecules. Brodie C, et al. **Glia** 1997 Apr;19(4):275–85

Cytokine–stimulated astrocytes damage human neurons via a nitric oxide mechanism. Chao CC, et al. **Glia** 1996 Mar; 16(3):276–84

Characterization of the hypo–osmolarity–induced Ca2+ response in cultured rat astrocytes. Fischer R, et al. **Glia** 1997 May;20(1):51–8

Hyperpolarization–activated ion currents in cultured rat cortical and spinal cord astrocytes. Guatteo E, et al. **Glia** 1996 Mar;16(3):196–209

Induction of various blood–brain barrier properties in non–neural endothelial cells by close apposition to co–cultured astrocytes. Hayashi Y, et al. **Glia** 1997 Jan; 19(1):13–26

Establishment of spontaneously immortalized rat type 1 astroglial cell lines: the role of p53 in astroglial carcinogenesis. Hiraga S, et al. **Glia** 1996 Nov;18(3):185–99

Beta–adrenergic receptors regulate astrogliosis and cell proliferation in the central nervous system in vivo. Hodges–Savola C, et al. **Glia** 1996 May;17(1):52–62

Plasma albumin induces calcium waves in rat cortical astrocytes. Nadal A, et al. **Glia** 1997 Apr;19(4):343–51

Astrocyte survival and HSP70 heat shock protein induction following heat shock and acidosis. Narasimhan P, et al. **Glia** 1996 Jun;17(2):147–59

Astrocytes promote process outgrowth by adult human oligodendrocytes in vitro through interaction between bFGF and astrocyte extracellular matrix. Oh LY, et al. **Glia** 1996 Jul;17(3):237–53

Increased potassium, chloride, and taurine conductances in astrocytes during hypoosmotic swelling. Olson JE, et al. **Glia** 1997 Jul;20(3):254–61

Does astrocytic glycogen benefit axon function and survival in CNS white matter during glucose deprivation? Ransom BR, et al. **Glia** 1997 Sep;21(1):134–41 (53 ref.)

AMPA/kainate receptor activation blocks K+ currents via internal Na+ increase in mouse cultured stellate astrocytes. Robert A, et al. **Glia** 1997 May;20(1):38–50

Identification of the delayed rectifier potassium channel, Kv1.6, in cultured astrocytes. Smart SL, et al. **Glia** 1997 Jun;20(2):127–34

Astrocyte energetics, function, and death under conditions of incomplete ischemia: a mechanism of glial death in the penumbra. Swanson RA, et al. **Glia** 1997 Sep;21(1):142–53

Angiotensin II activates distinct signal transduction pathways in astrocytes isolated from neonatal rat brain. Tallant EA, et al. **Glia** 1997 Apr;19(4):333–42

Young neurons from the adult subependymal zone proliferate and migrate along an astrocyte, extracellular matrix–rich pathway. Thomas LB, et al. **Glia** 1996 May;17(1):1–14

Different voltage–gated sodium currents are expressed by human neuroblastoma NB69 cells when cultured in defined serum–free and in astroglial–conditioned media. Urbano FJ, et al. **Glia** 1997 Feb;19(2):161–70

Differential expression of voltage–gated Ca2+ conductances in human neuroblastoma NB69 cells cultured in defined serum–free and astrocyte–conditioned media. Urbano FJ, et al. **Glia** 1997 May;20(1):70–8

Inhibition of endotoxin–induced nitric oxide synthase production in microglial cells by the presence of astroglial cells: a role for transforming growth factor beta. Vincent VA, et al. **Glia** 1997 Mar;19(3):190–8

Asymmetric gap junctional coupling between glial cells in the rat retina. Zahs KR, et al. **Glia** 1997 May;20(1):10–22

Migrating fetal astrocytes do not intravasate since they are excluded from blood vessels by vital basement membrane. Bernstein JJ, et al. **Int J Dev Neurosci** 1996 Jun; 14(3):177–80

A potent inhibitor of neurite outgrowth that predominates in the extracellular matrix of reactive astrocytes. Canning DR, et al. **Int J Dev Neurosci** 1996 Jun;14(3):153–75

Development of astrocytes and their relation to blood vessels in fetal monkey retina. Gariano RF, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2367–75

Role of astrocytes in the control of developing retinal vessels. Zhang Y, et al. **Invest Ophthalmol Vis Sci** 1997 Aug; 38(9):1653–66

Genetic influences on cellular reactions to spinal cord injury: activation of macrophages/microglia and astrocytes is delayed in mice carrying a mutation (WldS) that causes delayed Wallerian degeneration. Fujiki M, et al. **J Comp Neurol** 1996 Jul 29;371(3):469–84

Taurine in rat posterior pituitary: localization in astrocytes and selective release by hypoosmotic stimulation. Miyata S, et al. **J Comp Neurol** 1997 May 19;381(4):513–23

Genetic influences on cellular reactions to CNS injury: the reactive response of astrocytes in denervated neuropil regions in mice carrying a mutation (Wld(S)) that causes delayed Wallerian degeneration. Steward O, et al. **J Comp Neurol** 1997 Mar 31;380(1):70–81

Fate of developing astrocytes in the optic nerve of the myelin–deficient rat. Struckhoff G, et al. **J Comp Neurol** 1997 Feb 3;378(1):105–16

Soman–induced seizures rapidly activate astrocytes and microglia in discrete brain regions. Zimmer LA, et al. **J Comp Neurol** 1997 Feb 24;378(4):482–92

IL–12 production by central nervous system microglia is inhibited by astrocytes. Aloisi F, et al. **J Immunol** 1997 Aug 15;159(4):1604–12

The role of protein tyrosine phosphatase SHP–1 in the regulation of IFN–gamma signaling in neural cells. Massa PT, et al. **J Immunol** 1996 Dec 1;157(11):5139–44

A rapid replacement of vimentin–containing radial glia by glial fibrillary acidic protein–containing astrocytes in transplanted telencephalon. Tuba A, et al. **J Neural Transplant Plast** 1997 Jan–Mar;6(1):21–9

TNF alpha in cerebrospinal fluid of meningitis patients reduces astrocytes membrane potential. Köller H. **J Neuroimmunol** 1997 Jun;76(1–2):185–8

Nonactivated astrocytes downregulate T cell receptor expression and reduce antigen–specific proliferation and cytokine production of myelin basic protein (MBP)–reactive T cells. Sun D, et al. **J Neuroimmunol** 1997 Sep;78(1–2):69–78

GABA receptors precede glutamate receptors in hypothalamic development; differential regulation by astrocytes. Chen G, et al. **J Neurophysiol** 1995 Oct; 74(4):1473–84

Astrocytic inwardly rectifying potassium currents are dependent on external sodium ions. Ransom CB, et al. **J Neurophysiol** 1996 Jul;76(1):626–30

Intracellular calcium transients and potassium current oscillations evoked by glutamate in cultured rat astrocytes. Chen J, et al. **J Neurosci** 1997 Oct 1;17(19):7278–87

Astrocyte growth, reactivity, and the target of the antiproliferative antibody, TAPA. Geisert EE Jr, et al. **J Neurosci** 1996 Sep 1;16(17):5478–87

Phenotypic alteration of astrocytes induced by ciliary neurotrophic factor in the intact adult brain, As revealed by adenovirus–mediated gene transfer. Lisovoski F, et al. **J Neurosci** 1997 Oct 1;17(19):7228–36

Heterogeneity of astrocyte resting membrane potentials and intercellular coupling revealed by whole–cell and gramicidin–perforated patch recordings from cultured neocortical and hippocampal slice astrocytes. McKhann GM 2nd, et al. **J Neurosci** 1997 Sep 15;17(18):6850–63

Intracellular calcium oscillations in astrocytes: a highly plastic, bidirectional form of communication between neurons and astrocytes in situ. Pasti L, et al. **J Neurosci** 1997 Oct 15;17(20):7817–30

Hippocampal astrocytes in situ respond to glutamate released from synaptic terminals. Porter JT, et al. **J Neurosci** 1996 Aug 15;16(16):5073–81

Mechanism involved in initiation and propagation of receptor–induced intercellular calcium signaling in cultured rat astrocytes. Venance L, et al. **J Neurosci** 1997 Mar 15; 17(6):1981–92

Impact of cytoplasmic calcium buffering on the spatial and temporal characteristics of intercellular calcium signals in astrocytes. Wang Z, et al. **J Neurosci** 1997 Oct 1; 17(19):7359–71

Cell surface amyloid beta-protein precursor colocalizes with beta 1 integrins at substrate contact sites in neural cells. Yamazaki T, et al. **J Neurosci** 1997 Feb 1;17(3):1004–10

Upregulation of F-actin and alpha-actinin in reactive astrocytes. Abd-El-Basset EM, et al. **J Neurosci Res** 1997 Sep 1;49(5):608–16

Establishment of human adult astrocyte cultures derived from postmortem multiple sclerosis and control brain and spinal cord regions: immunophenotypical and functional characterization. De Groot CJ, et al. **J Neurosci Res** 1997 Aug 1;49(3):342–54

Obtention and characterization of primary astrocyte and microglial cultures from adult monkey brains. Guillemin G, et al. **J Neurosci Res** 1997 Sep 1;49(5):576–91

Role of endothelin-1 in astrocyte responses after acute brain damage. Hama H, et al. **J Neurosci Res** 1997 Mar 15; 47(6):590–602

NMDA receptor-mediated cGMP synthesis in primary cultures of mouse cerebellar granule cells appears to involve neuron-astrocyte communication with NO operating as the intercellular messenger. Malcolm C, et al. **J Neurosci Res** 1996 Jul 15;45(2):129–42

Altered gap junctional communication, intercellular signaling, and growth in cultured astrocytes deficient in connexin43. Naus CC, et al. **J Neurosci Res** 1997 Sep 1; 49(5):528–40

Reactive astrocytes in acute stage after experimental brain injury: relationship to extravasated plasma protein and expression of heat shock protein. Okimura Y, et al. **J Neurotrauma** 1996 Jul;13(7):385–93

Intracellular sodium homeostasis in rat hippocampal astrocytes. Rose CR, et al. **J Physiol (Lond)** 1996 Mar 1; 491 (Pt 2):291–305

Neurotrophic activity in cytokine-activated astrocytes. Yoshida K, et al. **Keio J Med** 1997 Jun;46(2):55–60 (50 ref.)

Electrically induced NGF production by astroglial cells. Koyama S, et al. **Nat Biotechnol** 1997 Feb;15(2):164–6

A role for Cajal-Retzius cells and reelin in the development of hippocampal connections [see comments] Del Río JA, et al. **Nature** 1997 Jan 2;385(6611):70–4. Comment in: Nature 1997 Jan 2;385(6611):23–4.

Differential susceptibility of senile and lesion-induced astrogliosis to phosphatidylserine. Jegliński W, et al. **Neurobiol Aging** 1997 Jan-Feb;18(1):81–6

Activation of astrocytes during epileptogenesis in the absence of neuronal degeneration. Khurgel M, et al. **Neurobiol Dis** 1995 Feb;2(1):23–35

Hereditary deficiencies in complement C5 are associated with intensified neurodegenerative responses that implicate new roles for the C-system in neuronal and astrocytic functions. Pasinetti GM, et al. **Neurobiol Dis** 1996;3(3):197–204

Glutamate toxicity in neuron-enriched and neuron-astrocyte co-cultures: effect of the glutamate uptake inhibitor L-trans-pyrrolidine-2,4-dicarboxylate. Amin N, et al. **Neurochem Int** 1997 Mar;30(3):271–6

Astrocytes and the delivery of glucose from plasma to neurons. Forsyth RJ. **Neurochem Int** 1996 Mar;28(3):231–41 (46 ref.)

Astrocytic contributions to blood-brain barrier (BBB) formation by endothelial cells: a possible use of aortic endothelial cell for in vitro BBB model. Isobe I, et al. **Neurochem Int** 1996 May-Jun;28(5–6):523–33

ALS-linked SOD1 mutant G85R mediates damage to astrocytes and promotes rapidly progressive disease with SOD1-containing inclusions. Bruijn LI, et al. **Neuron** 1997 Feb;18(2):327–38

PDGF mediates a neuron-astrocyte interaction in the developing retina. Fruttiger M, et al. **Neuron** 1996 Dec; 17(6):1117–31

Rat astroglial P2Z (P2X7) receptors regulate intracellular calcium and purine release. Ballerini P, et al. **Neuroreport** 1996 Nov 4;7(15–17):2533–7

beta-Amyloid-mediated inhibition of redox activity (MTT reduction) is not an indicator of astroglial degeneration. Patel AJ, et al. **Neuroreport** 1996 Aug 12;7(12):2026–30

Chloride: an anaplastic anion? [see comments] Richerson GB. **Neuroreport** 1996 Apr 10;7(5):969–70. Comment in: Neuroreport 1996 Apr 10;7(5):1020–4.

Astrocyte-neuron interaction during one-trial aversive learning in the neonate chick. Hertz L, et al. **Neurosci Biobehav Rev** 1996 Autumn;20(3):537–51 (96 ref.)

Role of astrocytes in the spreading depression signal between ischemic core and penumbra. Walz W. **Neurosci Biobehav Rev** 1997 Mar;21(2):135–42 (38 ref.)

Distinct soluble astrocytic factors induce expression of outward K+ currents and ramification of brain macrophages. Eder C, et al. **Neurosci Lett** 1997 May 2; 226(3):147–50

Complement gene expression in mouse microglia and astrocytes in culture: comparisons with mouse peritoneal macrophages. Haga S, et al. **Neurosci Lett** 1996 Oct 4; 216(3):191–4

The status and organization of astrocytes, oligodendroglia and microglia in grafts of fetal rat cerebral cortex. Harvey AR, et al. **Neurosci Lett** 1997 May 30;228(1):58–62

Induction of glutamine synthetase by L-alpha-aminoadipate in developmental stages of cultured astrocytes. Koyama Y, et al. **Neurosci Lett** 1997 Feb 14;223(1):65–8

Tissue extract from dopamine-depleted striatum enhances differentiation of cultured striatal type-1 astrocytes. Shimano Y, et al. **Neurosci Lett** 1996 Mar 1;205(3):193–6

Induction of macrophage inflammatory protein MIP-1alpha mRNA on glial cells after focal cerebral ischemia in the rat. Takami S, et al. **Neurosci Lett** 1997 May 23; 227(3):173–6

The promoter of macrophage colony-stimulating factor receptor is active in astrocytes. Tkachuk M, et al. **Neurosci Lett** 1997 Apr 4;225(2):121–5

Recovery potential in glucose deprived astrocytes. Mertens-Strijthagen J, et al. **Neurosci Res** 1996 Oct; 26(2):133–9

Astrocyte differentiation in primary culture followed by flow cytometry. Tabernero A, et al. **Neurosci Res** 1996 Jan; 24(2):131–8

Blood-brain barrier permeability in astrocyte-free regions of the central nervous system remyelinated by Schwann cells. Felts PA, et al. **Neuroscience** 1996 Nov;75(2):643–55

Astrocytes and extracellular matrix following intracerebral transplantation of embryonic ventral mesencephalon or lateral ganglionic eminence. Gates MA, et al. **Neuroscience** 1996 Sep;74(2):579–97

Infraorbital nerve transection and whisker follicle removal in adult rats affect microglia and astrocytes in the trigeminal brainstem. A study with lipocortin1- and S100beta-immunohistochemistry. Melzer P, et al. **Neuroscience** 1997 Sep;80(2):459–72

Enhanced tolerance of neuroblastoma cells towards the neurotoxin 6-hydroxydopamine following specific cell-cell interaction with primary astrocytes. Yu PH, et al. **Neuroscience** 1997 Jun;78(3):903–12

The transcription factor E2F-1 modulates TGF-beta1 RNA expression in glial cells. Thatikunta P, et al. **Oncogene** 1997 Jun 19;14(24):2959–69

Glucocorticoid receptor pathways are involved in the inhibition of astrocyte proliferation. Crossin KL, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2687–92

An extracellular signaling component in propagation of astrocytic calcium waves. Hassinger TD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13268–73

Astrocytes in the mammalian circadian clock: putative roles. Serviѐre J, et al. **Prog Brain Res** 1996;111:57–73 (104 ref.)

Interrelationships between astrocyte function, oxidative stress and antioxidant status within the central nervous system. Peuchen S, et al. **Prog Neurobiol** 1997 Jul;52(4):261–81 (311 ref.)

Astrocytic neurotransmitter receptors in situ and in vivo. Porter JT, et al. **Prog Neurobiol** 1997 Mar;51(4):439–55 (150 ref.)

Regulation of brain capillary endothelial thrombomodulin mRNA expression. Tran ND, et al. **Stroke** 1996 Dec; 27(12):2304–10; discussion 2310–1

Rapid disruption of an astrocyte interaction with the extracellular matrix mediated by integrin alpha 6 beta 4 during focal cerebral ischemia/reperfusion. Wagner S, et al. **Stroke** 1997 Apr;28(4):858–65

Control of gap-junctional communication in astrocytic networks. Giaume C, et al. **Trends Neurosci** 1996 Aug; 19(8):319–25 (74 ref.)

[Physiology and pathology of astrocytes] Baba A. **Nippon Yakurigaku Zasshi** 1997 Mar;109(3):101–2 **(Jpn)**

[Astrocytes and endothelins: possibilities for tissue-repair in damaged central nervous system] Hama H, et al. **Nippon Yakurigaku Zasshi** 1997 Mar;109(3):129–43 (38 ref.) (Eng. Abstr.) **(Jpn)**

[Activation and cell death of astrocytes] Matsuda T, et al. **Nippon Yakurigaku Zasshi** 1997 Mar;109(3):153–9 (40 ref.) (Eng. Abstr.) **(Jpn)**

[Stress response of cultured astrocytes to hypoxia/reoxygenation] Tohyama M, et al. **Nippon Yakurigaku Zasshi** 1997 Mar;109(3):145–51 (25 ref.) (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

Microglial responses after focal radiation-induced injury are affected by alpha-difluoromethylornithine. Nakagawa M, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):113–23

Failure of a second X-ray dose to activate nuclear factor kappaB in normal rat astrocytes. Raju U, et al. **J Biol Chem** 1997 Sep 26;272(39):24624–30

X-ray-mediated reduction in basic fibroblast growth factor expression in primary rat astrocyte cultures. Noel F, et al. **Radiat Res** 1997 Apr;147(4):484–9

SECRETION

Mechanisms for nitric oxide-induced cell death: involvement of apoptosis. Nicotera P, et al. **Adv Neuroimmunol** 1995; 5(4):411–20 (58 ref.)

Identity of neurotrophic molecules released from astroglia by vasoactive intestinal peptide. Brenneman DE, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:167–73 (30 ref.)

Human fetal astrocytes as an ex vivo gene therapy vehicle for delivering biologically active nerve growth factor. Lin Q, et al. **Hum Gene Ther** 1997 Feb 10;8(3):331–9

Thyroid hormone induces protein secretion and morphological changes in astroglial cells with an increase in expression of glial fibrillary acidic protein. Lima FR, et al. **J Endocrinol** 1997 Jul;154(1):167–75

Altered apolipoprotein E secretion in cytokine treated human astrocyte cultures. Baskin F, et al. **J Neurol Sci** 1997 May 1;148(1):15–8

TRANSPLANTATION

Human fetal astrocytes as an ex vivo gene therapy vehicle for delivering biologically active nerve growth factor. Lin Q, et al. **Hum Gene Ther** 1997 Feb 10;8(3):331–9

Serial changes in granuloprival cerebellar cultures after transplantation with granule cells and glia: a timed ultrastructural study. Seil FJ. **Neuroscience** 1997 Apr; 77(3):695–711

ULTRASTRUCTURE

Ultrastructural changes of macroglial cells in the rat brain following an exposure to a non-penetrative blast. Kaur C, et al. **Ann Acad Med Singapore** 1997 Jan;26(1):27–9

mu-Opioid receptor-induced Ca2+ mobilization and astroglial development: morphine inhibits DNA synthesis and stimulates cellular hypertrophy through a Ca(2+)-dependent mechanism. Hauser KF, et al. **Brain Res** 1996 May 13;720(1–2):191–203

Glutathione protects astrocytes from peroxynitrite-mediated mitochondrial damage: implications for neuronal/astrocytic trafficking and neurodegeneration. Barker JE, et al. **Dev Neurosci** 1996;18(5–6):391–6

Immunocytochemical studies of cellular reaction in human ischemic brain stroke. MAB anti-CD68 stains macrophages, astrocytes and microglial cells in infarcted area. Krupinski J, et al. **Folia Neuropathol** 1996;34(1):17–24

A morphometric evaluation of morphological types of microglia and astroglia in human fetal mesencephalon. Wierzba-Bobrowicz T, et al. **Folia Neuropathol** 1997; 35(1):29–35

Leptomeningeal cells modulate the neurite growth promoting properties of astrocytes in vitro. Ness R, et al. **Glia** 1997 Jan;19(1):47–57

Ultrastructural localization of glycogen phosphorylase predominantly in astrocytes of the gerbil brain. Richter K, et al. **Glia** 1996 Aug;17(4):263–73

A combined staining method for argyrophilic nucleolar organizer regions and for glial fibrillary acidic protein in astrocytes of human brain. Fushiki S, et al. **Histochem J** 1996 Jul;28(7):523–30

Plasticity of astrocytes of the ventral glial limitans subjacent to the supraoptic nucleus. Bobak JB, et al. **J Comp Neurol** 1996 Dec 9;376(2):188–97

Microtubule dynamics regulates the level of endothelin-B receptor in rat cultured astrocytes. Ozawa F, et al. **J Neurochem** 1997 Aug;69(2):562–9

Nimodipine maintains in vivo the increase in GFAP and enhances the astroglial ensheathment of surviving motoneurons in the rat following permanent target deprivation. Guntinas-Lichius O, et al. **J Neurocytol** 1997 Apr;26(4):241–8

Nitric oxide induces morphological changes in cultured neurohypophysial astrocytes. Ramsell KD, et al. **J Neuroendocrinol** 1996 Mar;8(3):235–40

Immunocytochemical and electron microscope observations on astroglial interlaminar processes in the primate neocortex. Colombo JA, et al. **J Neurosci Res** 1997 May 15;48(4):352–7

Quantification of the effects of astrocytes on oligodendroglial morphology. Morley M, et al. **J Neurosci Res** 1997 Jul 15;49(2):219–28

Compared effects of extracellular K+ ions and soman, a neurotoxic, on cerebral astrocyte morphology. An in vitro study. Grange-Messent V, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):151–9

Neuronal and glial processes in neuropathology. Hirano A. **Neurol Med Chir (Tokyo)** 1997 Jan;37(1):1–5

Perivascular astrocytes within Alzheimer's disease plaques. Cullen KM. **Neuroreport** 1997 May 27;8(8):1961–6

Serial changes in granuloprival cerebellar cultures after transplantation with granule cells and glia: a timed ultrastructural study. Seil FJ. **Neuroscience** 1997 Apr; 77(3):695–711

Inhibition of glutamine synthetase reduces ammonia-induced astrocyte swelling in rat. Willard-Mack CL, et al. **Neuroscience** 1996 Mar;71(2):589–99

Ultrastructural alterations of synaptic contacts and astrocytes in postmortem caudate nucleus of schizophrenic patients [letter] Uranova NA, et al. **Schizophr Res** 1996 Oct 18; 22(1):81–3

Evolution of a strain of CJD that induces BSE-like plaques. Manuelidis L, et al. **Science** 1997 Jul 4;277(5322):94–8

Myelin-containing corpora amylacea in vestibular root entry zone. Sbarbati A, et al. **Ultrastruct Pathol** 1996 Sep-Oct; 20(5):437–42

Comparative study of astrocytes in human and rabbit retinae. Triviño A, et al. **Vision Res** 1997 Jul;37(13):1707–11

VIROLOGY

Rabies viruses infect primary cultures of murine, feline, and human microglia and astrocytes. Ray NB, et al. **Arch Virol** 1997;142(5):1011–9

Stepwise transformation of astrocytes by simian virus 40 large T antigen and epidermal growth factor receptor overexpression. Frisa PS, et al. **Cell Growth Differ** 1996 Feb;7(2):223–33

Astrocyte activation by Sindbis virus: expression of GFAP, cytokines, and adhesion molecules. Brodie C, et al. **Glia**

ASTROCYTES

1997 Apr;19(4):275–85

Adenoviral vector–mediated gene expression in the nervous system of immunocompetent Wistar and T cell–deficient nude rats: preferential survival of transduced astroglial cells in nude rats. Hermens WT, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1049–63

Chick embryo brain cultures enriched for neurons or astroglial cells support the replication of influenza A, B, and C viruses [letter] Parker MS, et al.
In Vitro Cell Dev Biol Anim 1997 Jun;33(6):416–21

Growth inhibition of herpes simplex virus–type 1 in calphostin C–treated astrocytes. Castagnino CG, et al.
Intervirology 1995;38(6):332–8

Isolation and long–term culture of primary ocular human immunodeficiency virus type 1 isolates in primary astrocytes. Canki M, et al. **J Neurovirol** 1997 Feb;3(1):10–5

Regulation of HIV–1 infection in astrocytes: expression of Nef, TNF–alpha and IL–6 is enhanced in coculture of astrocytes with macrophages. Fiala M, et al.
J Neurovirol 1996 Jun;2(3):158–66

Use of primary CNS cultures to investigate HIV neurotropism. González–Scarano F, et al. **J Neurovirol** 1997 May;3 Suppl 1:S11–3

Establishment and characterization of conditionally immortalized astrocytes to study their interaction with ts1, a neuropathogenic mutant of Moloney murine leukemia virus. Lin YC, et al. **J Neurovirol** 1997 Feb;3(1):28–37

Further observations on coronavirus infection of primate CNS. Murray RS, et al. **J Neurovirol** 1997 Feb;3(1):71–5

Infection of primary cultures of human neural cells by human coronaviruses 229E and OC43. Bonavia A, et al.
J Virol 1997 Jan;71(1):800–6

Astrocyte apoptosis induced by HIV–1 transactivation of the c–kit protooncogene. He J, et al.
Proc Natl Acad Sci U S A 1997 Apr 15;94(8):3954–9

Immunohistochemical demonstration of equine herpesvirus–1 antigen in neurons and astrocytes of horses with acute paralysis. Schultheiss PC, et al. **Vet Pathol** 1997 Jan; 34(1):52–4

[Effect of infection with herpes simplex and rubella virus of highly differentiated human and guinea pig astrocytes] Poleshchuk NN, et al. **Biull Eksp Biol Med** 1996 Oct; 122(10):413–7 **(Rus)**

ASTROCYTOMA

Desmoplastic cerebral astrocytoma in intraventricular location: simplifying histogenesis by broadening the spectrum of desmoplastic neuroepithelial tumors of infancy? [letter; comment] Vajtai I.
AJR Am J Roentgenol 1997 May;168(5):1385. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1459–61.

Glucocorticoid induced the expression of mRNA and the secretion of lipocortin 1 in rat astrocytoma cells. Mizuno H, et al. **Brain Res** 1997 Jan 23;746(1–2):256–64

Modulation of the alpha 2 macroglobulin receptor/low density lipoprotein receptor related protein by interferon–gamma in human astroglial cells. Businaro R, et al. **J Neuroimmunol** 1997 Jan;72(1):75–81

Cerebellar astrocytomas in children. Campbell JW, et al.
J Neurooncol 1996 May–Jun;28(2–3):223–31 (41 ref.)

Expression of stromelysin 1 in human astrocytoma cell lines. Matsuzawa K, et al. **J Neurooncol** 1996 Dec;30(3):181–8

High–grade astrocytomas: resource use, clinical outcomes, and cost of care. Silverstein MD, et al.
Mayo Clin Proc 1996 Oct;71(10):936–44

Influence of epidermal growth factor and gastrin on the cell proliferation of human meningiomas versus astrocytic tumors maintained as ex vivo tissue cultures. Camby I, et al. **Neuropeptides** 1997 Jun;31(3):217–25

BLOOD SUPPLY

Superselective angio–CT of brain tumors. Tomura N, et al.
AJNR Am J Neuroradiol 1996 Jun–Jul;17(6):1073–80

Probing tumor microvascularity by measurement, analysis and display of contrast agent uptake kinetics. Parker GJ, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):564–74

CHEMISTRY

Melanotic astrocytoma. Vajtai I, et al.
Acta Neuropathol (Berl) 1996;91(5):549–53

Immunohistochemical detection of p53 protein expression in various childhood astrocytoma subtypes: significance in tumor progression. Bodey B, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1187–94

Association of pleomorphic xanthoastrocytoma with cortical dysplasia and neuronal tumors. A report of three cases. Lach B, et al. **Cancer** 1996 Dec 15;78(12):2551–63

Determination of in situ dissociation constant for Fura–2 and quantitation of background fluorescence in astrocyte cell line U373–MG. Petr MJ, et al. **Cell Calcium** 1997 Mar; 21(3):233–40

Immunohistochemically detectable p53 and mdm–2 oncoprotein expression in astrocytic gliomas and their correlation to cell proliferation. Dietzmann K, et al.
Gen Diagn Pathol 1996 May;141(5–6):339–44

Analysis of proliferation markers and p53 expression in gliomas of astrocytic origin: relationships and prognostic value [see comments] Cunningham JM, et al.
J Neurosurg 1997 Jan;86(1):121–30. Comment in: J Neurosurg 1997 Jul;87(1):133–4.

Expression of epidermal growth factor receptors and c–erbB–2 proteins in human astrocytic tumors. Hwang SL, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jul; 13(7):417–24

CLASSIFICATION

Data–driven approaches to decision making in automated tumor grading. An example of astrocytoma grading. Kolles H, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):298–304

Classification and grading of low–grade astrocytic tumors in children. Giannini C, et al. **Brain Pathol** 1997 Apr; 7(2):785–98 (128 ref.)

Classification of astrocytomas and malignant astrocytomas by principal components analysis and a neural net. McKeown MJ, et al. **J Neuropathol Exp Neurol** 1996 Dec; 55(12):1238–45

[The revised WHO classification of brain tumors. Radiological aspects of 4 new tumor entities] Zimmer C, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jun;166(6):522–7 (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Normal evoked otoacoustic emissions with a profound hearing loss due to a juvenile pilocytic astrocytoma. Monroe JA, et al. **Am J Otol** 1996 Jul;17(4):639–42

Diencephalic syndrome and disseminated juvenile pilocytic astrocytomas of the hypothalamic–optic chiasm region. Perilongo G, et al. **Cancer** 1997 Jul 1;80(1):142–6

Klinefelter syndrome and neoplasia presentation of three new cases [letter] Wysocka B, et al. **Cancer Genet Cytogenet** 1996 Nov;92(1):85–6

24–year preoperative evolution of a temporal astrocytoma. Pascual–Castroviejo I, et al. **Childs Nerv Syst** 1996 Jul; 12(7):417–20

Subependymal giant cell astrocytoma associated with tuberous sclerosis: diagnostic and surgical characteristics of five cases with unusual features. Turgut M, et al.
Clin Neurol Neurosurg 1996 Aug;98(3):217–21

Chronic compulsive foot rubbing. Breningstall GN, et al.
Clin Pediatr (Phila) 1996 Aug;35(8):411–3

Speech and the dominant superior frontal gyrus: correlation of ictal symptoms, EEG, and results of surgical resection. Chee MW, et al. **J Clin Neurophysiol** 1997 May;14(3):226–9

Adult respiratory distress syndrome in patients with malignant astrocytoma—three case reports. Kumabe T, et al. **Neurol Med Chir (Tokyo)** 1997 Jul;37(7):560–5

Low grade astrocytoma in the medial part of the frontal lobe manifesting as paroxysmal speech disturbance—case report. Takano S, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):185–8

Pure amnesia caused by bilateral temporal lobe astrocytoma—case report. Umemura A, et al.
Neurol Med Chir (Tokyo) 1997 Jul;37(7):556–9

Central neurogenic hyperventilation in an awake patient with a pontine glioma. Siderowf AD, et al. **Neurology** 1996 Apr; 46(4):1160–2

Choroidal neovascular membrane as a feature of optic nerve glioma. Shields JA, et al. **Retina** 1997;17(4):349–50

[Central pontine myelinolysis as potential complication of cerebellar astrocytoma: report of a case] Riva M, et al.
Ann Ital Med Int 1996 Apr–Jun;11(2):144–6 (Eng. Abstr.) **(Ita)**

[Familial astrocytoma associated with von Recklinghausen's disease: report of two cases] Ito Y, et al.
No Shinkei Geka 1997 Mar;25(3):283–8 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Localized glioma in the occipital lobe manifesting as scintillating scotoma: case report] Maruya J, et al.
No Shinkei Geka 1997 Mar;25(3):265–9 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Spontaneous decrease of a pilocytic astrocytoma in neurofibromatosis type 1. Leisti EL, et al.
AJNR Am J Neuroradiol 1996 Oct;17(9):1691–4

MR of recurrent high–grade astrocytomas after intralesional immunotherapy. Smith MM, et al.
AJNR Am J Neuroradiol 1996 Jun–Jul;17(6):1065–71

Juvenile pilocytic astrocytoma masquerading as amblyopia. Roh S, et al. **Am J Ophthalmol** 1997 May;123(5):692–4

Prognostic significance of Hsp–27 in astrocytic brain tumors: an immunohistochemical study. Assimakopoulou M, et al.
Anticancer Res 1997 Jul–Aug;17(4A):2677–82

December 1996—cervicomedullary tumor. Hamilton RL.
Brain Pathol 1997 Apr;7(2):841–2

Use of magnetic resonance imaging in the diagnosis of central vestibular disease. Bayens–Simmonds J, et al. **Can Vet J** 1997 Jan;38(1):38

Malignant gliomas in children. Johnson JH Jr, et al.
Cancer Invest 1996;14(6):609–21 (72 ref.)

Neural networks analysis of astrocytic gliomas from MRI appearances. Abdolmaleki P, et al. **Cancer Lett** 1997 Sep 16;118(1):69–78

Technique of stereotactic biopsy in a 5–month–old child. Kondziolka D, et al. **Childs Nerv Syst** 1996 Oct; 12(10):615–8

Hemidystonia as presenting symptom of an optic glioma. Vandertop WP, et al. **Childs Nerv Syst** 1997 May; 13(5):289–92 (22 ref.)

Supratentorial diffuse astrocytic tumours: proposal of an MRI classification. Pierallini A, et al. **Eur Radiol** 1997;7(3):395–9

Correlation of medical and neurosurgical events with neuropsychological status in children at diagnosis of astrocytoma: utilization of a neurological severity score. Ater JL, et al. **J Child Neurol** 1996 Nov;11(6):462–9

Preliminary experience with the application of gadolinium–DTPA before MR imaging–guided laser–induced interstitial thermotherapy of brain tumors. Kahn T, et al. **J Magn Reson Imaging** 1997 Jan–Feb; 7(1):226–9

Prediction of posterior fossa tumor type in children by means of magnetic resonance image properties, spectroscopy, and neural networks. Arle JE, et al. **J Neurosurg** 1997 May; 86(5):755–61

Pituitary astrocytoma: magnetic resonance and hormonal characteristics. Case illustration. Nishizawa S, et al.
J Neurosurg 1997 Jul;87(1):131

Role of gemistocytes in astrocytoma progression. Watanabe K, et al. **Lab Invest** 1997 Feb;76(2):277–84

MR diffusion imaging of human intracranial tumours. Krabbe K, et al. **Neuroradiology** 1997 Jul;39(7):483–9

MRI of high–grade glial tumors: correlation between the degree of contrast enhancement and the volume of surrounding edema. Pronin IN, et al. **Neuroradiology** 1997 May;39(5):348–50

Pleomorphic xanthoastrocytoma: some observations. Cervoni L, et al. **Neurosurg Rev** 1996;19(1):13–6 (20 ref.)

Proton spectroscopy of suprasellar tumors in pediatric patients. Sutton LN, et al. **Neurosurgery** 1997 Aug; 41(2):388–94; discussion 394–5

Pleomorphic xanthoastrocytoma with neurofibromatosis type 1: case report. Kubo O, et al. **Noshuyo Byori** 1996 Apr; 13(1):79–83

Dorsally exophytic brain stem tumors and midbrain tumors. Hoffman HJ. **Pediatr Neurosurg** 1996;24(5):256–62

Astrocytomas arising in the tectal region of the mesencephalon: report of two cases. Toyoda T, et al.
Radiat Med 1995 Nov–Dec;13(6):315–7 (17 ref.)

Gliomas: correlation of magnetic susceptibility artifact with histologic grade. Bagley LJ, et al. **Radiology** 1997 Feb; 202(2):511–6

Pleomorphic xanthoastrocytoma: report of six cases with special consideration of diagnostic and therapeutic pitfalls. Tonn JC, et al. **Surg Neurol** 1997 Feb;47(2):162–9 (27 ref.)

[Computed tomographic and magnetic resonance tomographic findings in pilocytic astrocytoma] Huber G, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Feb;166(2):125–32 (Eng. Abstr.) **(Ger)**

[The revised WHO classification of brain tumors. Radiological aspects of 4 new tumor entities] Zimmer C, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jun;166(6):522–7 (Eng. Abstr.) **(Ger)**

[Pleomorphic xanthoastrocytoma] Vajtai I, et al.
Orv Hetil 1997 Apr 20;138(16):991–7 (41 ref.) (Eng. Abstr.) **(Hun)**

[Clinical study of intraspinal neoplasms in children] Takahashi I, et al. **No Shinkei Geka** 1996 Jul;24(7):605–11 (Eng. Abstr.) **(Jpn)**

[Multiple pleomorphic xanthoastrocytoma tumors in a 12–year–old girl] Daszkiewicz P, et al.
Neurol Neurochir Pol 1996 May–Jun;30(3):517–24 (Eng. Abstr.) **(Pol)**

[Multifocal astrocytoma diagnosed by peroperative ultrasound scanning] Harat M, et al.
Neurol Neurochir Pol 1996 Sep–Oct;30(5):861–6 (Eng. Abstr.) **(Pol)**

[The level of embryonic antigens in the blood serum and cerebrospinal fluid of neuro–oncological patients] Rudenko VA, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul–Sep;(3):32–5 (Eng. Abstr.) **(Rus)**

[Astrocytomas in pediatrics. The prognostic factors and survival] López–Aguilar E, et al. **Gac Med Mex** 1997 May–Jun;133(3):231–5 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Pre–radiation chemotherapy for malignant glioma in adults. Kirby S, et al. **Can J Neurol Sci** 1996 May;23(2):123–7

Preclinical development of a recombinant toxin containing circularly permuted interleukin 4 and truncated Pseudomonas exotoxin for therapy of malignant astrocytoma. Puri RK, et al. **Cancer Res** 1996 Dec 15; 56(24):5631–7

Ukrain therapy of a recurrent astrocytoma of the optic nerve (case report). Steinacker J, et al. **Drugs Exp Clin Res** 1996; 22(3–5):279–81

Ukrain therapy in a frontal anaplastic grade III astrocytoma (case report). Steinacker J, et al. **Drugs Exp Clin Res** 1996; 22(3–5):275–7

Cisplatin and low dose rate irradiation in cisplatin resistant and sensitive human glioma cells. Wilkins DE, et al.
Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):105–11

Recurrent cerebellar gliomas: salvage therapy with oral etoposide. Chamberlain MC. **J Child Neurol** 1997 Apr; 12(3):200–4

Phase II study of continuous infusion carmustine and cisplatin followed by cranial irradiation in adults with newly diagnosed high–grade astrocytoma. Grossman SA, et al.
J Clin Oncol 1997 Jul;15(7):2596–603

Heterogeneity of chemosensitivity in six clonal cell lines derived from a spontaneous murine astrocytoma and its

relationship to genotypic and phenotypic characteristics. Bradford R, et al. **J Neurooncol** 1997 Sep;34(3):247–61

Phase II study of 5-fluorouracil and leucovorin in recurrent primary brain tumor. Cascino TL, et al. **J Neurooncol** 1996 Dec;30(3):243–6

All-trans-retinoic acid: a phase II Radiation Therapy Oncology Group study (RTOG 91-13) in patients with recurrent malignant astrocytoma. Phuphanich S, et al. **J Neurooncol** 1997 Sep;34(2):193–200

Procarbazine, lomustine, and vincristine (PCV) chemotherapy for grade III and grade IV oligoastrocytomas. Kim L, et al. **J Neurosurg** 1996 Oct; 85(4):602–7

Polyunsaturated fatty acids increase the sensitivity of 36B10 rat astrocytoma cells to radiation-induced cell kill. Vartak S, et al. **Lipids** 1997 Mar;32(3):283–92

Chemotherapy for spinal cord astrocytoma. Bouffet E, et al. **Med Pediatr Oncol** 1997 Dec;29(6):560–2

Phase II study of DTIC, ACNU, and vincristine combination chemotherapy for supratentorial malignant astrocytomas. Ikeda J, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):555–8; discussion 558–9

Chemotherapy response criteria in malignant glioma. Grant R, et al. **Neurology** 1997 May;48(5):1336–40

Expansion and shrinkage of central nervous system tumor coinciding with human growth hormone therapy: case report. Connors MH, et al. **Neurosurgery** 1996 Dec; 39(6):1243–5; discussion 1245–6

Profound hearing loss from intravertebral artery cisplatin. Wetmore SJ, et al. **Otolaryngol Head Neck Surg** 1997 Feb; 116(2):234–7

Is there a role for high-dose chemotherapy with stem cell rescue for brain stem tumors of childhood? Dunkel IJ, et al. **Pediatr Neurosurg** 1996;24(5):263–6

ENZYMOLOGY

Increased expression of telomerase RNA component is associated with increased cell proliferation in human astrocytomas. Sallinen P, et al. **Am J Pathol** 1997 Apr; 150(4):1159–64

Cytosolic phospholipase A2 is coupled to muscarinic receptors in the human astrocytoma cell line 1321N1: characterization of the transducing mechanism. Bayon Y, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):281–7

Mycobacterium tuberculosis enhances iNOS mRNA expression and HIV replication in human astrocytoma cells. Persichini T, et al. **Neuroreport** 1997 May 27;8(8):1897–901

EPIDEMIOLOGY

Descriptive epidemiology of cerebral gliomas in France. Fleury A, et al. **Cancer** 1997 Mar 15;79(6):1195–202

Allelism at the glutathione S-transferase GSTM3 locus: interactions with GSTM1 and GSTT1 as risk factors for astrocytoma. Hand PA, et al. **Carcinogenesis** 1996 Sep; 17(9):1919–22

ETIOLOGY

A malignant astrocytoma in a patient with AIDS: a possible association between astrocytomas and HIV infection. Neal JW, et al. **J Infect** 1996 Nov;33(3):159–62 (24 ref.)

GENETICS

Immunohistochemical analysis of the nm23 gene product (NDP kinase) expression in astrocytic neoplasms. Nawashiro H, et al. **Acta Neurochir (Wien)** 1996; 138(4):445–50

Molecular pathogenesis of astrocytoma and glioblastoma multiforme. Van de Kelft E. **Acta Neurochir (Wien)** 1997; 139(7):589–99 (87 ref.)

Molecular genetic alterations in pleomorphic xanthoastrocytoma. Paulus W, et al. **Acta Neuropathol (Berl)** 1996;91(3):293–7

Increased expression of telomerase RNA component is associated with increased cell proliferation in human astrocytomas. Sallinen P, et al. **Am J Pathol** 1997 Apr; 150(4):1159–64

Expression of vascular endothelial growth factor and its receptors in pilocytic astrocytoma. Leung SY, et al. **Am J Surg Pathol** 1997 Aug;21(8):941–50

Genetic alterations in astrocytic tumors: hints to a molecular epidemiological interpretation. Fronza G, et al. **Ann Ist Super Sanita** 1996;32(1):159–66 (53 ref.)

Loss of tuberin from cerebral tissues with tuberous sclerosis and astrocytoma [see comments] Mizuguchi M, et al. **Ann Neurol** 1996 Dec;40(6):941–4. Comment in: Ann Neurol 1997 Aug;42(2):270–2.

Reduced TSC2 RNA and protein in sporadic astrocytomas and ependymomas. Wienecke R, et al. **Ann Neurol** 1997 Aug;42(2):230–5

Redox regulation of lipopolysaccharide (LPS)-induced interleukin-8 (IL-8) gene expression mediated by NF kappa B and AP-1 in human astrocytoma U373 cells. Tanaka C, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):568–73

Infrequent methylation of CDKN2A(MTS1/p16) and rare mutation of both CDKN2A and CDKN2B(MTS2/p15) in primary astrocytic tumours. Schmidt EE, et al. **Br J Cancer** 1997;75(1):2–8

A molecular genetic model of astrocytoma histopathology. Louis DN. **Brain Pathol** 1997 Apr;7(2):755–64 (81 ref.)

Extensive splice variation and localization of the EHK-1 receptor tyrosine kinase in adult human brain and glial tumors. Miescher GC, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):17–24

Chromosomal characteristics of childhood brain tumors. Bigner SH, et al. **Cancer Genet Cytogenet** 1997 Sep; 97(2):125–34

Cytogenetics of pediatric central nervous system tumors. Sainati L, et al. **Cancer Genet Cytogenet** 1996 Oct 1; 91(1):13–27

Microsatellite instability and mutated type II transforming growth factor-beta receptor gene in gliomas. Izumoto S, et al. **Cancer Lett** 1997 Jan 30;112(2):251–6

Id genes encoding inhibitors of transcription are expressed during in vitro astrocyte differentiation and in cell lines derived from astrocytic tumors. Andres-Barquin PJ, et al. **Cancer Res** 1997 Jan 15;57(2):215–20

Expression of oligodendrocytic mRNAs in glial tumors: changes associated with tumor grade and extent of neoplastic infiltration. Landry CF, et al. **Cancer Res** 1997 Sep 15;57(18):4098–104

Allelism at the glutathione S-transferase GSTM3 locus: interactions with GSTM1 and GSTT1 as risk factors for astrocytoma. Hand PA, et al. **Carcinogenesis** 1996 Sep; 17(9):1919–22

Expression of the somatostatin gene in human astrocytoma cell lines. Mercure L, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):151–5

Mdr1 mRNA expression differs between grade III astrocytomas and glioblastomas. Kirches E, et al. **Clin Neuropathol** 1997 Jan-Feb;16(1):34–6

Chromosome 17 allelic loss in astrocytic tumors and its clinico-pathologic implications. Muhammad AK, et al. **Clin Neuropathol** 1997 Jul-Aug;16(4):220–6

Correlative immunohistochemistry and molecular genetic study of the inactivation of the p16INK4A genes in astrocytomas. Rao LS, et al. **Diagn Mol Pathol** 1997 Apr; 6(2):115–22

Malignant astrocytoma-derived region of common amplification in chromosomal band 17p12 is frequently amplified in high-grade osteosarcomas. Hulsebos TJ, et al. **Genes Chromosomes Cancer** 1997 Apr;18(4):279–85

Numerical aberrations of chromosomes 1, 2, and 7 in astrocytomas studied by interphase cytogenetics. Wernicke C, et al. **Genes Chromosomes Cancer** 1997 May;19(1):6–13

Loss of heterozygosity of microsatellite loci on chromosome 9p in astrocytic tumors and its prognostic implications. Maruno M, et al. **J Neurooncol** 1996 Oct;30(1):19–24

DNA ploidy and S-phase in recurrent astrocytomas: a retrospective study by flow cytometry of deparaffinized specimens. Vavruch L, et al. **J Neurooncol** 1996 Oct; 30(1):37–45

Malignant astrocytomas with homozygous CDKN2/p16 gene deletions have higher Ki-67 proliferation indices. Ono Y, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1026–31

Transcription factor AP-2 regulates human apolipoprotein E gene expression in astrocytoma cells. Garcia MA, et al. **J Neurosci** 1996 Dec 1;16(23):7550–6

The familial occurrence of brain tumors. Chang DS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):268–71

Reappraisal of p53 mutations in human malignant astrocytic neoplasms by p53 functional assay: comparison with conventional structural analyses. Tada M, et al. **Mol Carcinog** 1997 Mar;18(3):171–6

Chromosome 22q allelic losses at microsatellite loci in human astrocytic tumors. Muhammad AK, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):606–10; discussion 611

Infrequent mutation of Waf1/p21 gene, a CDK inhibitor gene, in brain tumors. Tsumanuma I, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):150–6; discussion 156–7

Expression of the tumor over-expressed ch-TOG gene in human and baboon brain. Charrasse S, et al. **Neurosci Lett** 1996 Jul 12;212(2):119–22

Loss of heterozygosity of a locus on 17p13.3, independent of p53, is associated with higher grades of astrocytic tumours. Chattopadhyay P, et al. **Oncogene** 1997 Aug 14; 15(7):871–4

Development and malignant progression of astrocytomas in GFAP-v-src transgenic mice. Weissenberger J, et al. **Oncogene** 1997 May 1;14(17):2005–13

Molecular biology of malignant degeneration of astrocytoma. Furnari FB, et al. **Pediatr Neurosurg** 1996;24(1):41–9 (109 ref.)

[Analysis of telomere restriction fragments in human astrocytomas and glioblastomas] Liu J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):588–90 (Eng. Abstr.) **(Chi)**

[Familial astrocytoma associated with von Recklinghausen's disease: report of two cases] Ito Y, et al. **No Shinkei Geka** 1997 Mar;25(3):283–8 (20 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Fas ligand expression in glioblastoma cell lines and primary astrocytic brain tumors. Gratas C, et al. **Brain Pathol** 1997 Jul;7(3):863–9

Prognostic analysis of astrocytic gliomas correlating histological parameters with the proliferating cell nuclear antigen labelling index (PCNA-LI). Cruz-Sánchez FF, et al. **Histol Histopathol** 1997 Jan;12(1):43–9

Fas ligand expression by astrocytoma in vivo: maintaining immune privilege in the brain? Saas P, et al. **J Clin Invest** 1997 Mar 15;99(6):1173–8

Comparative evaluation of p53-protein expression and the PCNA and Ki-67 proliferating cell indices in human astrocytomas. Kordek R, et al. **Pathol Res Pract** 1996 Mar; 192(3):205–9

METABOLISM

Differential expression of tenascin-C and tenascin-X in human astrocytomas. Hasegawa K, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):431–7

Accumulation of wild-type p53 in astrocytomas is associated with increased p21 expression. Ono Y, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):21–7

Preferential expression of Fas/APO1 (CD95) and apoptotic cell death in perinecrotic cells of glioblastoma multiforme. Tachibana O, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):431–4

Alterations in reactive oxygen, pH, and calcium in astrocytoma cells during lethal injury. Wu Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C115–24

Loss of tuberin from cerebral tissues with tuberous sclerosis and astrocytoma [see comments] Mizuguchi M, et al. **Ann Neurol** 1996 Dec;40(6):941–4. Comment in: Ann Neurol 1997 Aug;42(2):270–2.

Concentration of rare earth elements, As, and Th in human brain and brain tumors, determined by neutron activation analysis. Zhuang G, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):45–9

Tamoxifen metabolic patterns within a glioma patient population treated with high-dose tamoxifen. Ducharme J, et al. **Br J Clin Pharmacol** 1997 Feb;43(2):189–93

Retinoblastoma protein expression and MIB-1 correlate with survival of patients with malignant astrocytoma. Nakamura M, et al. **Cancer** 1997 Jul 15;80(2):242–9

Increased expression of low density lipoprotein receptor-related protein/alpha2-macroglobulin receptor in human malignant astrocytomas. Yamamoto M, et al. **Cancer Res** 1997 Jul 1;57(13):2799–805

Accumulation of nuclear p53 protein and prognosis of astrocytomas in childhood and adolescence. Drach LM, et al. **Clin Neuropathol** 1996 Mar-Apr;15(2):67–73

A comparative study of arachidonic acid metabolism in rabbit cultured astrocytes and human astrocytoma cells (1321N1). Ishimoto H, et al. **Gen Pharmacol** 1996 Mar;27(2):313–17

Contrasting migratory response of astrocytoma cells to tenascin mediated by different integrins. Giese A, et al. **J Cell Sci** 1996 Aug;109 (Pt 8):2161–8

The uptake of Li+ into human 1321 N1 astrocytomas using 7Li NMR spectroscopy. Bramham J, et al. **J Inorg Biochem** 1996 Mar;61(4):273–84

Expression of androgen receptors in astrocytoma. Chung YG, et al. **J Korean Med Sci** 1996 Dec;11(6):517–21

Interleukin-1 beta and tumor necrosis factor-alpha induce expression of alpha 1-antichymotrypsin in human astrocytoma cells by activation of nuclear factor-kappa B. Lieb K, et al. **J Neurochem** 1996 Nov;67(5):2039–44

Regulation of glutamate in cultures of human monocytic THP-1 and astrocytoma U-373 MG cells. Klegeris A, et al. **J Neuroimmunol** 1997 Sep;78(1-2):152–61

Complement expression on astrocytes and astrocytoma cell lines: failure of complement regulation at the C3 level correlates with very low CD55 expression. Spiller OB, et al. **J Neuroimmunol** 1996 Dec;71(1-2):97–106

High-grade human brain tumors exhibit increased expression of myelin transcription factor 1 (MYT1), a zinc finger DNA-binding protein. Armstrong RC, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):772–81

Cyclin and cyclin-dependent kinase expression in human astrocytoma cell lines. Dirks PB, et al. **J Neuropathol Exp Neurol** 1997 Mar;56(3):291–300

Astrocytoma and Ki-67 [letter; comment] Joseph JT. **J Neurosurg** 1997 Jul;87(1):133–4. Comment on: J Neurosurg 1997 Jan;86(1):121–30.

Pituitary astrocytoma: magnetic resonance and hormonal characteristics. Case illustration. Nishizawa S, et al. **J Neurosurg** 1997 Jul;87(1):131

Proton chemical shift imaging, metabolic maps, and single voxel spectroscopy of glial brain tumors. Mader I, et al. **MAGMA** 1996 Jun;4(2):139–50

Subependymal giant cell astrocytoma: a clinicopathologic study with HMB45 and MIB-1 immunohistochemical analysis. Gyure KA, et al. **Mod Pathol** 1997 Apr; 10(4):313–7

Evaluation of human astrocytoma and glioblastoma cell lines for nerve growth factor release. Emmett CJ, et al. **Neurochem Int** 1997 Apr-May;30(4-5):465–74

Cyclin D1 in astrocytic tumours: an immunohistochemical study. Chakrabarty A, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):311–6

Automated classification of human brain tumours by neural network analysis using in vivo 1H magnetic resonance spectroscopic metabolite phenotypes. Usenius JP, et al. **Neuroreport** 1996 Jul 8;7(10):1597–600

Effects of ectopic overexpression of p21(WAF1/CIP1) on aneuploidy and the malignant phenotype of human brain tumor cells. Chen J, et al. **Oncogene** 1996 Oct 3; 13(7):1395–403

A clinicopathologic study of 30 cases of oligoastrocytoma including p53 immunohistochemistry. Beckmann MJ, et al.

Pathology 1997 May;29(2):159–64

Molecular variants of epidermal growth factor in malignant astrocytoma. Rao RK, et al. **Peptides** 1996;17(1):179–81

Keratin expression in astrocytomas: an immunofluorescent and biochemical reassessment. Kriho VK, et al. **Virchows Arch** 1997 Aug;431(2):139–47

[An immunohistochemical study of the expression of the oncoprotein p53 in astrocytic gliomas of the cerebral hemispheres] Korshunov AG, et al. **Arkh Patol** 1996 Nov–Dec;58(6):37–42 (Eng. Abstr.) **(Rus)**

MORTALITY

5–year survival and clinical prognostic factors in progressive supratentorial diffuse "low–grade" astrocytoma: a retrospective analysis of 46 cases. Schuurman PR, et al. **Acta Neurochir (Wien)** 1997;139(1):2–7

Supratentorial gliomas: a comparative study by grade and histologic type. Shaw EG, et al. **J Neurooncol** 1997 Feb; 31(3):273–8

Prognostic value of complete response after the initial treatment for malignant astrocytoma. Kayama T, et al. **Neurol Res** 1996 Aug;18(4):321–4 (16 ref.)

[The prognostic factors in astrocytic tumors: analysis by the Kaplan–Meier method and the Weibull log–linear model] Hirano H, et al. **No Shinkei Geka** 1996 Sep;24(9):809–15 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Proliferating cell nuclear antigen (PCNA) and Ki–67 immunopositivity in human astrocytic tumours. Kordek R, et al. **Acta Neurochir (Wien)** 1996;138(5):509–12; discussion 513

The relationship between cortical injury and brain tumour. Report of two cases and review of the literature. Stendel R, et al. **Acta Neurochir (Wien)** 1997;139(3):208–14 (52 ref.)

Melanotic cerebral astrocytoma: case report and literature review. Kanzawa T, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):200–4 (21 ref.)

Molecular genetic alterations in pleomorphic xanthoastrocytoma. Paulus W, et al. **Acta Neuropathol (Berl)** 1996;91(3):293–7

Melanotic astrocytoma. Vajtai I, et al. **Acta Neuropathol (Berl)** 1996;91(5):549–53

The combined determination of proliferative activity and cell density in the prognosis of adult patients with supratentorial high–grade astrocytic tumors. Kiss R, et al. **Am J Clin Pathol** 1997 Mar;107(3):321–31

Interphase cytogenetic (in situ hybridization) analysis of astrocytomas using archival, formalin–fixed, paraffin–embedded tissue and nonfluorescent light microscopy. Perry A, et al. **Am J Clin Pathol** 1997 Aug; 108(2):166–74

Composite pleomorphic xanthoastrocytoma and ganglioglioma: report of four cases and review of the literature. Perry A, et al. **Am J Surg Pathol** 1997 Jul; 21(7):763–71 (23 ref.)

CD44 is involved in migration but not spreading of astrocytoma cells in vitro. Radotra B, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):945–9

Cerebellar astrocytoma: report of 13 cases aged over 20 years and review of the literature. Hassounah M, et al. **Br J Neurosurg** 1996 Aug;10(4):365–71

Classification and grading of low–grade astrocytic tumors in children. Giannini C, et al. **Brain Pathol** 1997 Apr; 7(2):785–98 (128 ref.)

A molecular genetic model of astrocytoma histopathology. Louis DN. **Brain Pathol** 1997 Apr;7(2):755–64 (81 ref.)

Cell cycle kinetics and commitment in newborn, adult, and tumoral astrocytes. Li V, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):138–47

Supratentorial World Health Organization Grade 2 astrocytomas and oligoastrocytomas. A new pattern of prognostic factors. Kreth FW, et al. **Cancer** 1997 Jan 15; 79(2):370–9

Association of pleomorphic xanthoastrocytoma with cortical dysplasia and neuronal tumors. A report of three cases. Lach B, et al. **Cancer** 1996 Dec 15;78(12):2551–63

Substance P–induced mitogenesis in human astrocytoma cells correlates with activation of the mitogen–activated protein kinase signaling pathway. Luo W, et al. **Cancer Res** 1996 Nov 1;56(21):4983–91

Intra–axial endophytic tumors in the pons and/or medulla oblongata. II. Intraoperative findings, postoperative results, and 2–year follow up in 25 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):135–46

Localized proton magnetic resonance spectroscopy of a cerebellar tumor in a two–year–old child. Wilken B, et al. **Childs Nerv Syst** 1996 Oct;12(10):626–9

Acquired immune deficiency syndrome (AIDS) and cerebral astrocytoma. Tacconi L, et al. **Clin Neurol Neurosurg** 1996 May;98(2):149–51

Prognostic analysis of astrocytic gliomas correlating histological parameters with the proliferating cell nuclear antigen labelling index (PCNA–LI). Cruz–Sánchez FF, et al. **Histol Histopathol** 1997 Jan;12(1):43–9

Pleomorphic xanthoastrocytoma. Pai MR, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):329–31

Low–grade astrocytoma: a decade of experience at St. Jude Children's Research Hospital. Gajjar A, et al. **J Clin Oncol** 1997 Aug;15(8):2792–9

Fine needle aspiration biopsy of astrocytoma brain—a case report. Arora B, et al. **J Indian Med Assoc** 1996 Jun; 94(6):244

Expression of bFGF and VEGF in brain astrocytoma. Shim JW, et al. **J Korean Med Sci** 1996 Apr;11(2):149–57

Lectin histochemistry of astrocytic tumors and in vitro characterization of lectin–induced modifications on the proliferation of the SW1088, U373 and U87 human astrocytic cell lines. Camby I, et al. **J Neurooncol** 1997 Sep;34(2):111–22

Late sequelae of treated pleomorphic xanthoastrocytoma: malignant brain stem astrocytoma occurring 15 years after radiation therapy. Fuller GN, et al. **J Neurooncol** 1997 Mar; 32(1):57–61

Proliferative activity and prognosis of low–grade astrocytomas. Schiffer D, et al. **J Neurooncol** 1997 Aug; 34(1):31–5

Nearest–neighbor classification for identification of aggressive versus nonaggressive low–grade astrocytic tumors by means of image cytometry–generated variables. Decaestecker C, et al. **J Neurosurg** 1997 Mar;86(3):532–7

Astrocytoma and Ki–67 [letter; comment] Joseph JT. **J Neurosurg** 1997 Jul;87(1):133–4. Comment on: J Neurosurg 1997 Jan;86(1):121–30.

Observer reliability in histological grading of astrocytoma stereotactic biopsies. Mittler MA, et al. **J Neurosurg** 1996 Dec;85(6):1091–4

Implantation of C6 astrocytoma spheroid into collagen type I gels: invasive, proliferative, and enzymatic characterizations. Tamaki M, et al. **J Neurosurg** 1997 Oct; 87(4):602–9

Intramedullary astrocytoma with cartilage formation. Case report. Maleci A, et al. **J Neurosurg Sci** 1996 Jun; 40(2):157–60

In vitro and in vivo antineoplastic effects of orthovanadate. Cruz TF, et al. **Mol Cell Biochem** 1995 Dec 6–20; 153(1–2):161–6

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 12–1997. A 50–year–old woman with multiple sclerosis and an enlarging frontal–lobe mass [clinical conference] Paydarfar D, et al. **N Engl J Med** 1997 Apr 17;336(16):1163–71

Local invasion and intraparenchymal metastasis of astrocytomas. Bernstein JJ. **Neuropathol Appl Neurobiol** 1996 Oct;22(5):421–4 (12 ref.)

Neurotensin–mediated effects on astrocytic tumor cell proliferation. Camby I, et al. **Neuropeptides** 1996 Apr; 30(2):133–9

The influence of gastrin and/or cholecystokinin antagonists on the proliferation of three human astrocytic tumor cell lines. Camby I, et al. **Neuropeptides** 1996 Oct;30(5):433–7

Growth–inhibitory and differentiation–inducing activity of dimethylformamide in cultured human malignant glioma cells. Li XN, et al. **Neurosurgery** 1997 Jun;40(6):1250–8; discussion 1258–9

Hypoxia–mediated selection of cells with diminished apoptotic potential to solid tumours [letter] Van Meir E. **Neurosurgery** 1996 Oct;39(4):878–9

Tubular bodies (Weibel–Palade bodies) in endothelial cells of glioblastomas and astrocytomas. Miyagami M, et al. **Noshuyo Byori** 1996 Nov;13(2):107–13

Palisades in cerebral astrocytoma simulating the so–called polar spongioblastoma: a histological, immunohistochemical, and electron microscopical study of an adult case. Yagishita S, et al. **Noshuyo Byori** 1996 Apr; 13(1):21–5

Loss of heterozygosity of a locus on 17p13.3, independent of p53, is associated with higher grades of astrocytic tumours. Chattopadhyay P, et al. **Oncogene** 1997 Aug 14; 15(7):871–4

MIB1 and p53 immunoreactivity in protoplasmic astrocytomas. Prayson RA, et al. **Pathol Int** 1996 Nov; 46(11):862–6

A clinicopathologic study of 30 cases of oligoastrocytoma including p53 immunohistochemistry. Beckmann MJ, et al. **Pathology** 1997 May;29(2):159–64

Pathology of brain stem astrocytomas. Burger PC. **Pediatr Neurosurg** 1996;24(1):35–40 (28 ref.)

Neoplasms of the pineal region. Prahlow JA, et al. **South Med J** 1996 Nov;89(11):1081–7

[Multifocal astrocytoma diagnosed by peroperative ultrasound scanning] Harat M, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):861–6 (Eng. Abstr.) **(Pol)**

[Morphologic analysis of of microglia in astrocytomas] Wierzba–Bobrowicz T, et al. **Neurol Neurochir Pol** 1997 Jan–Feb;31(1):51–62 (Eng. Abstr.) **(Pol)**

[An analysis of the interconnections between the proliferative activity of benign and anaplastic astrocytomas of the cerebral hemispheres and their histological structural characteristics] Korshunov AG, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Jan–Mar; (1):30–4 (Eng. Abstr.) **(Rus)**

[Low grade disseminated astrocytoma in childhood] Pérez MJ, et al. **Rev Neurol** 1997 Jun;25(142):877–81 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Biophysical and pharmacological characterization of chloride currents in human astrocytoma cells. Ullrich N, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1511–21

Establishment of spontaneously immortalized rat type 1 astroglial cell lines: the role of p53 in astroglial carcinogenesis. Hiraga S, et al. **Glia** 1996 Nov;18(3):185–99

Astrocytoma and Schwann cells in coculture. Lal PG, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):93–104

Human astrocytoma cells express a unique chloride current. Ullrich N, et al. **Neuroreport** 1996 Apr 10;7(5):1020–4

RADIOGRAPHY

Radiograph of the month. Pilocytic astrocytoma. Bose B. **Del Med J** 1996 Aug;68(8):397–8

A flight of fantasy: false memories in frontal lobe disease [letter] De Villiers C, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):652–3

RADIONUCLIDE IMAGING

Uptake of radioactive octanoate in astrocytoma cells: basic studies for application of [11C]octanoate as a PET tracer. Yamazaki S, et al. **Ann Nucl Med** 1996 Nov;10(4):395–9

Target imaging diagnosis of human brain glioma. Clinical analysis of 40 cases. Huang Q, et al. **Chin Med J (Engl)** 1996 Jan;109(1):93–6

Unexpected detection of an astrocytoma by poorly labeled Tc–99m HMPAO. Giordano A, et al. **Clin Nucl Med** 1996 Sep;21(9):741–2

Early delineation of cerebral glioma using amino acid positron tracers. Mineura K, et al. **Comput Med Imaging Graph** 1997 Jan–Feb;21(1):63–6

Fluorine–18–FDG PET and iodine–123–IMT SPECT in the evaluation of brain tumors. Weber W, et al. **J Nucl Med** 1997 May;38(5):802–8

[Histological prediction of cerebral tumors using SPECT with 201T1] Prat–Acín R, et al. **Rev Neurol** 1997 Aug; 25(144):1168–70 (Eng. Abstr.) **(Spa)**

RADIOTHERAPY

Fast neutrons in the treatment of grade IV astrocytomas. Breteau N, et al. **Bull Cancer Radiother** 1996;83 Suppl:135s–41s (42 ref.)

Quality of life and neuropsychological evaluation for patients with malignant astrocytomas: RTOG 91–14. Radiation Therapy Oncology Group. Choucair AK, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):9–20

Radiotherapy after hyperbaric oxygenation for malignant gliomas: a pilot study. Kohshi K, et al. **J Cancer Res Clin Oncol** 1996;122(11):676–8

Phase II study of continuous infusion carmustine and cisplatin followed by cranial irradiation in adults with newly diagnosed high–grade astrocytoma. Grossman SA, et al. **J Clin Oncol** 1997 Jul;15(7):2596–603

Progressive cerebral occlusive disease after hypothalamic astrocytoma radiation therapy. Sinsawaiwong S, et al. **J Med Assoc Thai** 1997 May;80(5):338–42

Late sequelae of treated pleomorphic xanthoastrocytoma: malignant brain stem astrocytoma occurring 15 years after radiation therapy. Fuller GN, et al. **J Neurooncol** 1997 Mar; 32(1):57–61

Boron neutron capture therapy. Clinical brain tumor studies. Nakagawa Y, et al. **J Neurooncol** 1997 May;33(1–2):105–15

Polyunsaturated fatty acids increase the sensitivity of 36B10 rat astrocytoma cells to radiation–induced cell kill. Vartak S, et al. **Lipids** 1997 Mar;32(3):283–92

Phase II study of DTIC, ACNU, and vincristine combination chemotherapy for supratentorial malignant astrocytomas. Ikeda J, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):555–8; discussion 558–9

Long–term follow–up after high–activity 125I brachytherapy for pediatric brain tumors. Sneed PK, et al. **Pediatr Neurosurg** 1996 Jun;24(6):314–22

Acute effects on neuropsychological function and quality of life by high–dose multiple daily fractionated radiotherapy for malignant astrocytomas: assessing the tolerability of a new radiotherapy regimen. Jason GW, et al. **Psychooncology** 1997 Jun;6(2):151–7

Low–grade astrocytoma: treatment with conventionally fractionated stereotactic radiation therapy. van Kampen M, et al. **Radiology** 1996 Oct;201(1):275–8

High–dose–rate brachytherapy for poor–prognosis, high–grade glioma: (phase II) preliminary results. Micheletti E, et al. **Tumori** 1996 Jul–Aug;82(4):339–44

[Radiation therapy for low–grade astrocytomas: survival and QOL] Nemoto K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May; 57(6):336–40 (Eng. Abstr.) **(Jpn)**

SECONDARY

Spinal metastases as a first presentation of malignant astrocytoma. Dubé M, et al. **Can Assoc Radiol J** 1996 Oct; 47(5):370–3

Cerebellar pilocytic astrocytoma with leptomeningeal dissemination: case report. Morikawa M, et al. **Surg Neurol** 1997 Jul;48(1):49–51; discussion 51–2

SURGERY

Significant reduction of seizure incidence and increase of benzodiazepine receptor density after interstitial radiosurgery in low–grade gliomas. Warnke PC, et al. **Acta Neurochir Suppl (Wien)** 1997;68:90–2

Arteriovenous malformation associated with pleomorphic xanthoastrocytoma. Lee TT, et al. **Acta Neurochir (Wien)** 1996;138(5):590–1 (5 ref.)

Re–operations of supratentorial anaplastic astrocytomas.

Sipos L, et al. **Acta Neurochir (Wien)** 1997;139(2):99–104
Fractionated stereotactic radiotherapy with cis-platinum radiosensitization in the treatment of recurrent, progressive, or persistent malignant astrocytoma. Glass J, et al. **Am J Clin Oncol** 1997 Jun;20(3):226–9
Anaplastic pleomorphic xanthoastrocytoma. Bayindir C, et al. **Childs Nerv Syst** 1997 Jan;13(1):50–6
Intra-axial endophytic tumors in the pons and/or medulla oblongata. II. Intraoperative findings, postoperative results, and 2-year follow up in 25 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):135–46
Cerebellar pilocytic astrocytoma: a treatment protocol based upon analysis of 73 cases and a review of the literature. Dirven CM, et al. **Childs Nerv Syst** 1997 Jan;13(1):17–23 (38 ref.)
Intramedullary astrocytomas and ependymomas in the pediatric age group: a retrospective study. Innocenzi G, et al. **Childs Nerv Syst** 1996 Dec;12(12):776–80
Malignant supratentorial astrocytomas of late childhood. Our experience with 25 cases. Raco A, et al. **Childs Nerv Syst** 1997 Jun;13(6):341–4
Pleomorphic xanthoastrocytoma: clinical, imaging and pathological features of four cases. Bucciero A, et al. **Clin Neurol Neurosurg** 1997 Feb;99(1):40–5
Prognostic factors in intramedullary astrocytomas. Innocenzi G, et al. **Clin Neurol Neurosurg** 1997 Feb;99(1):1–5
Surgery of intramedullary spinal cord tumors. Zileli M, et al. **Eur Spine J** 1996;5(4):243–50
Tumors and approaches to the lateral ventricles. Introduction and overview. Piepmeier JM. **J Neurooncol** 1996 Dec; 30(3):267–74 (36 ref.)
Unusual early recurrence of a cerebellar pilocytic astrocytoma following complete surgical resection. Case report and review of the literature. Sioutos PJ, et al. **J Neurooncol** 1996 Oct;30(1):47–54
Cerebellar astrocytoma: experience with 54 cases surgically treated at the Mayo Clinic, Rochester, Minnesota, from 1978 to 1990. Morreale VM, et al. **J Neurosurg** 1997 Aug; 87(2):257–61
Brain tumors of childhood. Duncan JA 3rd. **Med Health R I** 1996 Jun;79(6):229–31 (11 ref.)
Management of pilocytic astrocytoma. Kayama T, et al. **Neurosurg Rev** 1996;19(4):217–20
Transcingulate approach to lateral ventricle tumors. Technical case report. Tominaga T, et al. **Neurosurg Rev** 1996;19(2):105–8
Variations in the natural history and survival of patients with supratentorial low-grade astrocytomas. Piepmeier J, et al. **Neurosurgery** 1996 May;38(5):872–8; discussion 878–9
Early outcomes after stereotactic radiosurgery for growing pilocytic astrocytomas in children. Somaza SC, et al. **Pediatr Neurosurg** 1996 Sep;25(3):109–15
Pathobiology of cerebral gliomas in children and the role of radiosurgery. Inoue HK, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:278–87
Radical resection of intramedullary spinal cord tumors without cavitron ultrasonic aspirator or CO2 laser: a "two stage" technique. Kalangu KK, et al. **Surg Neurol** 1996 Oct; 46(4):310–4; discussing 314–6
Pleomorphic xanthoastrocytoma: report of six cases with special consideration of diagnostic and therapeutic pitfalls. Tonn JC, et al. **Surg Neurol** 1997 Feb;47(2):162–9 (27 ref.)
[Spinal cord astrocytomas and ependymomas: therapeutic strategy] Fischer G. **Chirurgie** 1997;122(2):127–9 (Eng. Abstr.) **(Fre)**
[Intensive care (letter)] Lidlbauer M. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):391 **(Ger)**
[Transient mutism after resection of left frontal lobe astrocytoma in adult: case report] Kunishio K, et al. **No Shinkei Geka** 1997 Jan;25(1):61–5 (Eng. Abstr.) **(Jpn)**
[Surgical case of cerebral pilocytic astrocytoma—clinicopathologic study and analysis of proliferation potential by PCNA staining] Nakayama Y, et al. **No To Shinkei** 1996 Mar;48(3):265–8 (Eng. Abstr.) **(Jpn)**

THERAPY

Malignant gliomas in children. Johnson JH Jr, et al. **Cancer Invest** 1996;14(6):609–21 (72 ref.)
Controversies in the treatment of low-grade astrocytomas and oligodendrogliomas [editorial] Levin VA. **Curr Opin Oncol** 1996 May;8(3):175–7
Treatment of advanced CNS malignancies with the recombinant adenovirus H5.010RSVTK: a phase I trial. Eck SL, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1465–82
Conservative surgery and radiotherapy in the treatment of spinal cord astrocytoma. Jyothirmayi R, et al. **J Neurooncol** 1997 Jul;33(3):205–11
Toxicity studies in thymidine kinase-deficient herpes simplex virus therapy for malignant astrocytoma. Jia WW, et al. **J Neurosurg** 1996 Oct;85(4):662–6
Application of United States advance directives on Italian soil. Kinney ML, et al. **Mil Med** 1997 Aug;162(8):571–2
Effects of ectopic overexpression of p21(WAF1/CIP1) on aneuploidy and the malignant phenotype of human brain tumor cells. Chen J, et al. **Oncogene** 1996 Oct 3; 13(7):1395–403
Weekly paclitaxel with and without concurrent radiation therapy: toxicity, pharmacokinetics, and response. Glantz MJ, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):128–35
Stereotactic high-activity brachytherapy for malignant intra-axial brain tumors. Status report as of March, 1995. Bernstein M, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):167–70 (9 ref.)

ULTRASTRUCTURE

Microsatellite instability and mutated type II transforming growth factor-beta receptor gene in gliomas. Izumoto S, et al. **Cancer Lett** 1997 Jan 30;112(2):251–6
Mitochondrial damage following exposure of organotypic cultures of human malignant gliomas to 2-chloro- and 2-bromo-2'-deoxyadenosine. Matyja E, et al. **Folia Neuropathol** 1996;34(1):31–9
Unique intracerebral tumor with divergent differentiation in a patient presenting as NF2: report of a case with features of astrocytoma, ependymoma, and PNET. Jay V, et al. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):57–71
[AgNOR analysis of astrocytoma in childhood] Haberland C, et al. **Zentralbl Neurochir** 1996;57(1):5–11 (Eng. Abstr.) **(Ger)**

VETERINARY

Use of magnetic resonance imaging in the diagnosis of central vestibular disease. Bayens-Simmonds J, et al. **Can Vet J** 1997 Jan;38(1):38
Fibrillary astrocytoma in a goat: pathologic, immunohistochemical, and ultrastructural study. Martín de las Mulas J, et al. **J Vet Diagn Invest** 1996 Jul;8(3):387–9
Primary brain tumors in two dogs treated by surgical resection in combination with postoperative radiation therapy. Nakaichi M, et al. **J Vet Med Sci** 1996 Aug; 58(8):773–5
X-ray phototherapy for canine brain masses. Norman A, et al. **Radiat Oncol Investig** 1997;5(1):8–14

VIROLOGY

Mycobacterium tuberculosis enhances iNOS mRNA expression and HIV replication in human astrocytoma cells. Persichini T, et al. **Neuroreport** 1997 May 27;8(8):1897–901

ASTROCYTOMA, SUBEPENDYMAL GIANT CELL see **GLIOMA**

ASTROGLIA see **ASTROCYTES**

ASTROLOGY

HISTORY

Foretelling the future. Arabic astrology and English medicine in the late twelfth century. French R. **Isis** 1996 Sep; 87(3):453–80

ASTRONAUTS

Comparison of ground-based and space flight energy expenditure and water turnover in middle-aged healthy male US astronauts. Lane HW, et al. **Am J Clin Nutr** 1997 Jan;65(1):4–12
The use of IQ assessment in astronaut screening and evaluation. Bishop SL, et al. **Aviat Space Environ Med** 1996 Dec;67(12):1130–7
Investigations of immune parameters in a cosmonaut after a long-duration flight [letter] Tuschl H, et al. **Aviat Space Environ Med** 1997 Jun;68(6):552
Human physiology in space. Vernikos J. **Bioessays** 1996 Dec; 18(12):1029–37 (50 ref.)
Effects of 1- and 6-month spaceflight on bone mass and biochemistry in two humans. Collet P, et al. **Bone** 1997 Jun;20(6):547–51
Assessment of electrophysiological state of heart in astronauts in terms of decartographic and conventional electrocardiographic characteristics. Baevskii RM, et al. **Bratisl Lek Listy** 1996 Sep;97(9):516–20
Molecular analysis of mutations in T-lymphocytes from experienced Soviet cosmonauts. Khaidakov M, et al. **Environ Mol Mutagen** 1997;30(1):21–30
Older astronauts: next giant leap for mankind [editorial] Butler RN. **Geriatrics** 1997 Apr;52(4):14, 16
Radiation-induced chromosome damage in astronauts' lymphocytes. Testard I, et al. **Int J Radiat Biol** 1996 Oct; 70(4):403–11
Specific ventilation distribution in microgravity. Verbanck S, et al. **J Appl Physiol** 1996 May;80(5):1458–65
Locomotor head-trunk coordination strategies following space flight. Bloomberg JJ, et al. **J Vestib Res** 1997 Mar-Jun;7(2-3):161–77
[Effect of short- and long-time space flights on some biochemical and physical-chemical parameters of cosmonauts' blood] Grigorév AI, et al. **Aviakosm Ekolog Med** 1996;30(1):4–10 (Eng. Abstr.) **(Rus)**
[Awareness of the subjective vertical in weightlessness (results of Austrian-Russian experiment Optovert performed within the framework of the program Austromir, part III)] Kornilova LN, et al. **Aviakosm Ekolog Med** 1996;30(2):11–5 (Eng. Abstr.) **(Rus)**
[Evolution of methodical approaches to solve problem of evaluating and predicting the thermal status of cosmonauts in the real flight] Kuznets EI, et al. **Aviakosm Ekolog Med** 1996;30(5):52–4 (7 ref.) (Eng. Abstr.) **(Rus)**
[Lipid peroxidation and activity of diagnostically significant enzymes in cosmonauts after flights of various durations] Markin AA, et al. **Aviakosm Ekolog Med** 1997;31(3):14–8 (Eng. Abstr.) **(Rus)**

HISTORY

[Man, cosmos, medicine (35th anniversary of space flight by Iu. A. Gagarin) (editorial)] Giurdzhian AA. **Aviakosm Ekolog Med** 1996;30(2):4–5 **(Rus)**

PSYCHOLOGY

Crewmember interactions during a Mir space station simulation. Kanas N, et al. **Aviat Space Environ Med** 1996 Oct;67(10):969–75
Dual-task performance in space: results from a single-case study during a short-term space mission. Manzey D, et al. **Hum Factors** 1995 Dec;37(4):667–81

STATISTICS & NUMERICAL DATA

[Radiation doses of cosmonauts by ionizing radiation during professional activity (data base)] Bondarenko VA, et al. **Aviakosm Ekolog Med** 1996;30(1):57–8 **(Rus)**

ASTRONOMY

A rotating disk of gas and dust around a young counterpart to beta Pictoris. Mannings V, et al. **Nature** 1997 Aug 7; 388(6642):555–7
The nature and evolution of interstellar ices. Chiar JE. **Orig Life Evol Biosph** 1997 Jun;27(1–3):79–100 (95 ref.)
Physics and chemistry of the solar nebula. Lunine JI. **Orig Life Evol Biosph** 1997 Jun;27(1–3):205–24 (46 ref.)
Detection of organic matter in interstellar grains. Pendleton YJ. **Orig Life Evol Biosph** 1997 Jun;27(1–3):53–78 (108 ref.)
The search for interstellar glycine. Snyder LE. **Orig Life Evol Biosph** 1997 Jun;27(1–3):115–33 (59 ref.)
Circumstellar and interstellar synthesis of organic molecules. Tielens AG, et al. **Orig Life Evol Biosph** 1997 Jun; 27(1–3):23–51 (149 ref.)
The origin of low mass stars. Wilking BA. **Orig Life Evol Biosph** 1997 Jun;27(1–3):135–55 (70 ref.)
Nucleosynthesis in stars: recent developments. Arnett D, et al. **Science** 1997 May 30;276(5317):1359–62
A combined experimental and theoretical study on the formation of interstellar C3H isomers [see comments] Kaiser RI, et al. **Science** 1996 Nov 29;274(5292):1508–11. Comment in: Science 1996 Nov 29;274(5292):1480–1.
X-ray and molecular emission from the nearest region of recent star formation. Kastner JH, et al. **Science** 1997 Jul 4;277(5322):67–71
Type Ia supernovae: their origin and possible applications in cosmology. Nomoto K, et al. **Science** 1997 May 30; 276(5317):1378–82 (42 ref.)
Planetary nebulae: understanding the physical and chemical evolution of dying stars. Weinberger R, et al. **Science** 1997 May 30;276(5317):1382–6 (38 ref.)

HISTORY

Carl Sagan (1934–96) [news] Burns JA. **Nature** 1997 Jan 30; 385(6615):400

METHODS

Interstellar ices studied with the Infrared Space Observatory. Whittet DC. **Orig Life Evol Biosph** 1997 Jun;27(1–3):101–13

ASTROVIRIDAE INFECTIONS

DIAGNOSIS

[Diagnosis and clinical manifestations of diarrheal virus infections in Maizuru area from 1991 to 1994—especially focused on small round structured viruses] Ueda Y, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1092–7 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

The changing epidemiology of astrovirus-associated gastroenteritis: a review. Glass RI, et al. **Arch Virol Suppl** 1996;12:287–300 (72 ref.)
Annual incidence, serotype distribution, and genetic diversity of human astrovirus isolates from hospitalized children in Melbourne, Australia. Palombo EA, et al. **J Clin Microbiol** 1996 Jul;34(7):1750–3
Viral gastroenteritis: small round structured viruses, caliciviruses and astroviruses. Part II. The epidemiological perspective. Caul EO. **J Clin Pathol** 1996 Dec; 49(12):959–64 (72 ref.)

VIROLOGY

The molecular biology of astroviruses. Carter MJ, et al. **Arch Virol Suppl** 1996;12:277–85 (25 ref.)
Historical background and classification of caliciviruses and astroviruses. Cubitt WD. **Arch Virol Suppl** 1996;12:225–35 (40 ref.)
Annual incidence, serotype distribution, and genetic diversity of human astrovirus isolates from hospitalized children in Melbourne, Australia. Palombo EA, et al.

ASTROVIRIDAE INFECTIONS

J Clin Microbiol 1996 Jul;34(7):1750–3
Outbreak of gastroenteritis in military recruits associated with serotype 3 astrovirus infection. Belliot G, et al.
J Med Virol 1997 Feb;51(2):101–6

ASTROVIRUS

Historical background and classification of caliciviruses and astroviruses. Cubitt WD. **Arch Virol Suppl** 1996;12:225–35 (40 ref.)

CHEMISTRY

Capsid protein composition of reference strains and wild isolates of human astroviruses. Belliot G, et al.
Virus Res 1997 May;49(1):49–57

CLASSIFICATION

Detection and genetic differentiation of human astroviruses: phylogenetic grouping varies by coding region. Belliot G, et al. **Arch Virol** 1997;142(7):1323–34
Annual incidence, serotype distribution, and genetic diversity of human astrovirus isolates from hospitalized children in Melbourne, Australia. Palombo EA, et al.
J Clin Microbiol 1996 Jul;34(7):1750–3
Viral gastroenteritis: small round structured viruses, caliciviruses and astroviruses. Part I. The clinical and diagnostic perspective. Caul EO. **J Clin Pathol** 1996 Nov; 49(11):874–80 (58 ref.)

GENETICS

Studies of the astrovirus signal that induces (–1) ribosomal frameshifting. Lewis TL, et al. **Adv Exp Med Biol** 1997; 412:323–30
Detection and genetic differentiation of human astroviruses: phylogenetic grouping varies by coding region. Belliot G, et al. **Arch Virol** 1997;142(7):1323–34
Molecular characterisation of the 3'-end of the astrovirus genome. Monceyron C, et al. **Arch Virol** 1997; 142(4):699–706
The molecular biology of astroviruses. Carter MJ, et al.
Arch Virol Suppl 1996;12:277–85 (25 ref.)
Annual incidence, serotype distribution, and genetic diversity of human astrovirus isolates from hospitalized children in Melbourne, Australia. Palombo EA, et al.
J Clin Microbiol 1996 Jul;34(7):1750–3
Construction of a genome-length cDNA clone for human astrovirus serotype 1 and synthesis of infectious RNA transcripts. Geigenmüller U, et al. **J Virol** 1997 Feb; 71(2):1713–7
[Detection and genotyping of astroviruses by RT-PCR and sequencing] Yue HJ, et al. **Kansenshogaku Zasshi** 1996 Dec; 70(12):1220–6

GROWTH & DEVELOPMENT

Propagation of human astrovirus in the PLC/PRF/5 hepatoma cell line. Taylor MB, et al. **J Virol Methods** 1997 Aug;67(1):13–8

ISOLATION & PURIFICATION

Astrovirus survival in drinking water. Abad FX, et al.
Appl Environ Microbiol 1997 Aug;63(8):3119–22
The changing epidemiology of astrovirus-associated gastroenteritis: a review. Glass RI, et al.
Arch Virol Suppl 1996;12:287–300 (72 ref.)
[Detection and genotyping of astroviruses by RT-PCR and sequencing] Yue HJ, et al. **Kansenshogaku Zasshi** 1996 Dec; 70(12):1220–6
[Diagnosis and clinical manifestations of diarrheal virus infections in Maizuru area from 1991 to 1994—especially focused on small round structured viruses] Ueda Y, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1092–7 (Eng. Abstr.) **(Jpn)**

ASYMMETRIC SEPTAL HYPERTROPHY see **CARDIOMYOPATHY, HYPERTROPHIC**

ASYSTOLE see **HEART ARREST**

ATARACTICS see **TRANQUILIZING AGENTS**

ATAXIA

Miller Fisher syndrome in infancy. Benito-León J, et al.
Childs Nerv Syst 1996 Sep;12(9):559–61

CHEMICALLY INDUCED

Sensitivity to ethanol-induced ataxia in HOT and COLD selected lines of mice. Schafer GL, et al.
Alcohol Clin Exp Res 1996 Dec;20(9):1604–12
Gait ataxia during omeprazole therapy [letter] Varona L, et al. **Ann Pharmacother** 1996 Feb;30(2):192
Mouse cerebellar GABAB participation in the expression of acute ethanol-induced ataxia and in its modulation by the cerebellar adenosinergic A1 system. Dar MS.
Brain Res Bull 1996;41(1):53–9
Tolerance to the ataxic effects of diazepam in guinea pig is not associated with a reduced sensitivity of GABAA receptors in the vestibular nucleus. Hutchinson MA, et al.
Eur J Pharmacol 1996 Apr 22;301(1–3):83–90
Selective cyclodextrin inhibition of alfaxolone-induced ataxia. Koetzner L, et al. **J Pharm Pharmacol** 1996 May; 48(5):529–31
Ataxia and slurred speech after artesunate treatment for falciparum malaria [letter] Miller LG, et al.
N Engl J Med 1997 May 1;336(18):1328
Disruption of tolerance to the ataxic effect of ethanol by an extraneous stimulus. Siegel S, et al.
Pharmacol Biochem Behav 1996 Sep;55(1):125–30
Propofol-induced ataxia and hypnosis in rat lines selected for differential alcohol sensitivity. Yildirim Y, et al.
Pharmacol Toxicol 1997 Jan;80(1):44–8
Neuronal and muscular inclusions in rats with hindlimb dysfunction after treating with difluorobenzhydrylpiperadine. Yamanaka Y, et al.
Toxicol Pathol 1997 Mar-Apr;25(2):150–7
[A case of chronic bromvalerylurea intoxication with episodic neurological manifestations such as optic neuropathy ophthalmoplegia and ataxia] Fukazawa T, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):790–2 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Miller Fisher syndrome in a patient with HIV infection [letter] Arranz Caso JA, et al. **AIDS** 1997 Mar 15; 11(4):550–1
Ophthalmologic findings in patients with ataxia. Rabiah PK, et al. **Am J Ophthalmol** 1997 Jan;123(1):108–17
Voice onset time in ataxic dysarthria. Ackermann H, et al. **Brain Lang** 1997 Feb 15;56(3):321–33
Chronic sensory ataxic neuropathy and ophthalmoplegia with oculomotor nerve hypertrophy associated with IgM antibodies against gangliosides containing disialosyl groups [letter] Umehara F, et al.
J Neurol Neurosurg Psychiatry 1997 Jun;62(6):673–4
Multi-system signs and symptoms in X-linked ataxia carriers. Verhagen WI, et al. **J Neurol Sci** 1996 Sep 1;140(1–2):85–90
Kinematic analysis of lower lip movements in ataxic dysarthria. Ackermann H, et al. **J Speech Hear Res** 1995 Dec;38(6):1252–9
[Guillain-Barré syndrome and Fisher syndrome] Kusunoki S, et al. **Nippon Rinsho** 1997 Apr;55(4):940–4 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Fisher's syndrome with profound hypotension] Arai M, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):797–9 (Eng. Abstr.) **(Jpn)**

CONGENITAL

X-linked neurodegenerative syndrome with congenital ataxia, late-onset progressive myoclonic encephalopathy and selective macular degeneration, linked to Xp22.33-pter. des Portes V, et al. **Am J Med Genet** 1996 Jul 12;64(1):69–72
COACH syndrome: report of two brothers with congenital hepatic fibrosis, cerebellar vermis hypoplasia, oligophrenia, ataxia, and mental retardation. Gentile M, et al.
Am J Med Genet 1996 Aug 23;64(3):514–20

DIAGNOSIS

[Instrumental studies of motor function using "Stabilotest" and "Ataxitest" devices in preschool children] Osipenko TN, et al. **Med Tekh** 1997 May-Jun;(3):20–5 (Eng. Abstr.) **(Rus)**
[Clinical identification of hereditary ataxias. A study of 38 cases in Colombia] Pedraza OL, et al. **Rev Neurol** 1997 Jul;25(143):1016–22 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Chronic anti-ataxic actions of the novel thyrotropin-releasing hormone (TRH) analog, TA-0910, during and after repeated administration in Rolling mouse Nagoya: behavioral and pharmacokinetic studies. Kinoshita K, et al. **Biol Pharm Bull** 1997 Jan;20(1):36–9
Acetazolamide-responsive episodic ataxia in an Italian family refines gene mapping on chromosome 19p13. Calandriello L, et al. **Brain** 1997 May;120 (Pt 5):805–12
A controlled trial of 5-hydroxy-L-tryptophan for ataxia in progressive myoclonus epilepsy. Pranzatelli MR, et al.
Clin Neurol Neurosurg 1996 May;98(2):161–4
Effect of intranasal administration of thyrotropin-releasing hormone on ataxic gait in staggerer mice. Matsui K, et al. **Neurosci Lett** 1996 Jul 12;212(2):115–8
Neurobehavioral profile of subcutaneously administered MK-801 in the rat. Haggerty GC, et al.
Neurotoxicology 1996 Fall-Winter;17(3–4):913–21

ETIOLOGY

Vomiting, ataxia, and altered mental status in an adolescent: late-onset ornithine transcarbamylase deficiency. Myers JH, et al. **Am J Emerg Med** 1996 Oct;14(6):553–7
Disorientation and postural ataxia following flight simulation. Kennedy RS, et al. **Aviat Space Environ Med** 1997 Jan; 68(1):13–7
Developmental expression of BPAG1-n: insights into the spastic ataxia and gross neurologic degeneration in dystonia musculorum mice. Dowling J, et al. **Dev Biol** 1997 Jul 15; 187(2):131–42
Hemiataxia-hypesthesia in thalamic hemorrhage. Significance of sensory deficit patterns and presence or absence of weakness. Heo JH, et al. **Eur Neurol** 1996; 36(4):243–4
Clinical and etiological profile of ataxic hemiparesis. Kumar N, et al. **J Assoc Physicians India** 1996 Jun;44(6):383–4
Balint's syndrome. Sood AK, et al.
J Assoc Physicians India 1996 Jul;44(7):500–1
Bilateral medial medullary infarction manifested as sensory ataxia: a case report and review of the literature. Roh JK, et al. **J Korean Med Sci** 1996 Apr;11(2):193–6
Ataxic type of Creutzfeldt-Jakob disease with disproportionate enlargement of the fourth ventricle: a serial CT study [letter] Berciano J, et al.
J Neurol Neurosurg Psychiatry 1997 Mar;62(3):295–7
A 56-year-old man with progressive dysphagia, dysarthria and ataxia. Wolfsthal SD, et al. **Md Med J** 1996 Nov; 45(11):933–7
Neurosarcoidosis following augmentation mammoplasty with silicone. Yoshida T, et al. **Neurol Res** 1996 Aug; 18(4):319–20
Ataxic hemiparesis and hemiageusia from an isolated post-traumatic midbrain lesion. Johnson TM. **Neurology** 1996 Nov;47(5):1348–9
Vestibular dysfunction due to cryptococcal meningitis. Hughes KV 3rd, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):536–40
[Ataxic crural hemiparesis caused by posterior spinal arterial infarction] Masson C, et al. **Rev Neurol (Paris)** 1997 Feb; 155(1):65–6 (Eng. Abstr.) **(Fre)**
[Chronic neuroborreliosis with gait ataxia and cognitive disorders] Pennekamp A, et al.
Schweiz Rundsch Med Prax 1997 May 14;86(20):867–9 **(Ger)**
[A case of Nothnagel syndrome] Aizawa H, et al.
Rinsho Shinkeigaku 1996 Jul;36(7):889–91 (Eng. Abstr.) **(Jpn)**
[A case of relapsing Guillain-Barré syndrome following Miller Fisher syndrome] Mochizuki A, et al.
Rinsho Shinkeigaku 1996 May;36(5):675–9 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Progressive ataxic hemiparesis with asymmetric cortical and cerebral peduncular atrophy—report of two cases] Nishimura Y, et al. **Rinsho Shinkeigaku** 1996 Jun; 36(6):764–9 (Eng. Abstr.) **(Jpn)**
[A case of adult type adrenoleukodystrophy with an acute onset and repeated episodes of ataxic dysarthria] Ochi H, et al. **Rinsho Shinkeigaku** 1996 Nov;36(11):1229–33 (Eng. Abstr.) **(Jpn)**
[A 21-year-old man with myoclonic jerks cognitive deterioration and progressive ataxia] Ballabriga J, et al.
Rev Neurol 1996 Apr;24(128):464–7 **(Spa)**
[Posterior columns syndrome as an onset form of Guillain-Barre syndrome. Letter] Tornero C, et al.
Rev Neurol 1997 Mar;25(139):474 **(Spa)**

GENETICS

Episodic ataxia and myokymia syndrome: a new mutation of potassium channel gene Kv1.1. Comu S, et al.
Ann Neurol 1996 Oct;40(4):684–7
Otolith-ocular responses in familial episodic ataxia linked to chromosome 19p. Furman JM. **Ann Neurol** 1997 Aug; 42(2):189–93
Periodic vestibulocerebellar ataxia, an autosomal dominant ataxia with defective smooth pursuit, is genetically distinct from other autosomal dominant ataxias. Damji KF, et al.
Arch Neurol 1996 Apr;53(4):338–44 (42 ref.)
Ocular changes in patients with spinocerebellar degeneration and repeated trinucleotide expansion of spinocerebellar ataxia type 1 gene. Abe T, et al. **Arch Ophthalmol** 1997 Feb;115(2):231–6
Acetazolamide-responsive episodic ataxia in an Italian family refines gene mapping on chromosome 19p13. Calandriello L, et al. **Brain** 1997 May;120 (Pt 5):805–12
Mutation of the Ca2+ channel beta subunit gene Cchb4 is associated with ataxia and seizures in the lethargic (lh) mouse. Burgess DL, et al. **Cell** 1997 Feb 7;88(3):385–92
Degenerative ataxias: genetics, pathogenesis and animal models. Kakizuka A. **Curr Opin Neurol** 1997 Aug; 10(4):285–90 (50 ref.)
An approximately 1.2-Mb bacterial artificial chromosome contig refines the genetic and physical maps of the lurcher locus on mouse chromosome 6 [letter] De Jager PL, et al. **Genome Res** 1997 Jul;7(7):736–46
Ataxic gait and mental retardation with absence of the paternal chromosome 8 and an idic(8)(p23.3): imprinting effect or nullisomy for distal 8p genes? Piantanida M, et al. **Hum Genet** 1997 Jun;99(6):766–71
Multi-system signs and symptoms in X-linked ataxia carriers. Verhagen WI, et al. **J Neurol Sci** 1996 Sep 1;140(1–2):85–90
Ocular motility in North Carolina autosomal dominant ataxia. Small KW, et al. **J Neuroophthalmol** 1996 Jun;16(2):91–5
Location of the 9257 and ataxia mutations on mouse chromosome 18. Griffith AJ, et al. **Mamm Genome** 1996 Jun;7(6):417–9
A 10-year follow-up—genotypic analysis disproves phenotypic classification [letter] Nutt JG, et al.
Mov Disord 1997 May;12(3):472
Retinitis pigmentosa and ataxia caused by a mutation in the gene for the alpha-tocopherol-transfer protein [letter] Yokota T, et al. **N Engl J Med** 1996 Dec 5;335(23):1770–1
Trinucleotide repeats and hereditary ataxias [news] Klockgether T, et al. **Nat Med** 1997 Feb;3(2):149–50
alpha-Tocopherol transfer protein gene: exon skipping of all transcripts causes ataxia. Tamaru Y, et al. **Neurology** 1997 Aug;49(2):584–8
[Clinical identification of hereditary ataxias. A study of 38

cases in Colombia] Pedraza OL, et al. **Rev Neurol** 1997 Jul;25(143):1016–22 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Cholinergic neuron–specific ganglioside GQ1b alpha a possible target molecule for serum IgM antibodies in some patients with sensory ataxia. Tagawa Y, et al. **J Neuroimmunol** 1997 May;75(1–2):196–9

Chronic sensory ataxic neuropathy and ophthalmoplegia with oculomotor nerve hypertrophy associated with IgM antibodies against gangliosides containing disialosyl groups [letter] Umehara F, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):673–4

Anti–gabaergic neuron autoantibodies in a patient with stiff–man syndrome and ataxia. Giometto B, et al. **J Neurol Sci** 1996 Nov;143(1–2):57–9

Antineuronal antibody in a patient with neuroblastoma and opsoclonus–myoclonus–ataxia: a case report. Salmaggi A, et al. **Tumori** 1997 May–Jun;83(3):709–11

METABOLISM

Deficiency of complex II of the mitochondrial respiratory chain in late–onset optic atrophy and ataxia. Taylor RW, et al. **Ann Neurol** 1996 Feb;39(2):224–32

Distribution of thyrotropin–releasing hormone (TRH) receptors in the brain of the ataxic mutant mouse, rolling mouse Nagoya. Kinoshita K, et al. **Biol Pharm Bull** 1997 Jan;20(1):86–7

Mutation of the Ca2+ channel beta subunit gene Cchb4 is associated with ataxia and seizures in the lethargic (lh) mouse. Burgess DL, et al. **Cell** 1997 Feb 7;88(3):385–92

Ataxia associated with increased plasma concentrations of pristanic acid, phytanic acid and C27 bile acids but normal fibroblast branched–chain fatty acid oxidation. Clayton PT, et al. **J Inherit Metab Dis** 1996;19(6):761–8

PATHOLOGY

Endoplasmic reticulum is missing in dendritic spines of Purkinje cells of the ataxic mutant rat. Dekker–Ohno K, et al. **Brain Res** 1996 Apr 1;714(1–2):226–30

Is ataxic gait the predominant presenting manifestation of Creutzfeldt–Jakob disease? Experience of 14 Chinese cases from Taiwan. Liou HH, et al. **J Neurol Sci** 1996 Sep 1; 140(1–2):53–60

Cranial nerve enhancement on three–dimensional MRI in Miller Fisher syndrome. Nagaoka U, et al. **Neurology** 1996 Dec;47(6):1601–2

PHYSIOPATHOLOGY

Quantification of upper extremity function using kinematic analysis. Ramos E, et al. **Arch Phys Med Rehabil** 1997 May; 78(5):491–6

A new variant of sensory ataxic neuropathy with autosomal dominant inheritance [letter; comment] Gemignani F, et al. **Brain** 1997 Feb;120 (Pt 2):379–80. Comment on: Brain 1995 Dec;118 (Pt 6):1557–63.

The effects of (+)–SKF10047 and ketamine hydrochloride on stereotyped behaviour, locomotor activity and ataxia in guinea pig. Jerram AH, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):269–73

Clinical correlates of quantitative acoustic analysis in ataxic dysarthria. Chiu MJ, et al. **Eur Neurol** 1996;36(5):310–4

Hering's law for eyelids [letter; comment] Eggenberger E, et al. **Neurology** 1996 Nov;47(5):1352. Comment on: Neurology 1995 Sep;45(9):1781–3.

A study of motor performance and motor learning in episodic ataxia. Miall RC, et al. **Neuroreport** 1997 Jul 7; 8(9–10):2159–64

Mechanisms of ataxia. Bastian AJ. **Phys Ther** 1997 Jun; 77(6):672–5 (23 ref.)

Ataxia and altered dendritic calcium signaling in mice carrying a targeted null mutation of the calbindin D28k gene. Airaksinen MS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1488–93

[The Miller Fisher syndrome. Review of the cases of the Santa Maria Hospital] Carvalho M, et al. **Acta Med Port** 1996 Apr–Jun;9(4–6):167–70 (Eng. Abstr.) **(Por)**

THERAPY

Treatment with intravenously administered immunoglobulins of the neuroblastoma–associated opsoclonus–myoclonus [letter; comment] Borgna–Pignatti C, et al. **J Pediatr** 1996 Jul;129(1):179–80. Comment on: J Pediatr 1995 Aug;127(2):328–9.

[Immunoadsorption therapy for Fisher's syndrome: analysis of the recovery process of external ophthalmoplegia and the removal ability of anti–GQ1b antibodies] Chida K, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):551–6 (Eng. Abstr.) **(Jpn)**

[A case of Miller Fisher syndrome with good response to immunoglobulins (letter)] Lorente L, et al. **An Med Interna** 1996 Jun;13(6):304 **(Spa)**

VETERINARY

Sporadic bovine leukosis associated with ataxia and tibiotarsal joint swelling: a case report. Oliver–Espinosa O, et al. **Can Vet J** 1994 Dec;35(12):777–9

Ataxia in pheasants [letter; comment] Pennycott TW. **Vet Rec** 1997 Mar 22;140(12):320. Comment on: Vet Rec 1997 Feb 22;140(8):211.

Ataxia in pheasants [letter] [see comments] Welchman DD, et al. **Vet Rec** 1997 Feb 22;140(8):211. Comment in: Vet Rec 1997 Mar 22;140(12):320.

VIROLOGY

Ocular flutter and truncal ataxia may be associated with enterovirus infection. Wiest G, et al. **J Neurol** 1997 May; 244(5):288–92

ATAXIA, CEREBELLAR see **CEREBELLAR ATAXIA**

ATAXIA TELANGIECTASIA

Analysis of the ATM protein in wild–type and ataxia telangiectasia cells. Lakin ND, et al. **Oncogene** 1996 Dec 19;13(12):2707–16

BLOOD

Vitamin E serum levels are normal in ataxia telangiectasia (Louis–Bar disease). Battisti C, et al. **J Neurol Sci** 1996 Sep 15;141(1–2):114–6

CHEMICALLY INDUCED

Hypersensitivity of ataxia–telangiectasia fibroblasts to a nitric oxide donor. Green MH, et al. **Free Radic Biol Med** 1997; 22(1–2):343–7

COMPLICATIONS

Ataxia telangiectasia syndrome with B cell lymphoma [letter] Kaneko H, et al. **Clin Genet** 1996 Jun;49(6):331–2

Splenic leiomyoma: an uncommon localization. Oğuzkurt P, et al. **Eur J Pediatr Surg** 1996 Aug;6(4):235–7

Ataxia telangiectasia and mucoepidermoid carcinoma of the parotid gland: a case report. Hoşal AS, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):79–84

Diffuse large cell lymphoma presenting as inflammatory bowel disease in an adolescent with ataxia telangiectasia [letter] Kapoor G, et al. **Leuk Res** 1996 Nov–Dec; 20(11–12):997–8

An unusual case of urinary incontinence, ataxia–telangiectasia, and metastatic dysgerminoma: case report and review of the literature. deVries CR, et al. **Urology** 1997 Sep;50(3):453–5 (15 ref.)

Bronchiolitis obliterans in ataxia–telangiectasia. Ito M, et al. **Virchows Arch** 1997 Feb;430(2):131–7

DIAGNOSIS

[Leukemia lymphoma T–cell as first manifestation of ataxia–telangiectasia] de Laet C, et al. **Arch Pediatr** 1996 Jul;3(7):681–4 (Eng. Abstr.) **(Fre)**

[Microcephaly with chromosomal instability and immunodeficiency––Nijmegen syndrome] Chrzanowska KH. **Pediatr Pol** 1996 Mar;71(3):223–34 (44 ref.) (Eng. Abstr.) **(Pol)**

[Ataxia telangiectasia: review of 13 new cases] Valbuena O, et al. **Rev Neurol** 1996 Jan;24(125):77–80 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Chromosomal breakage correlates with delayed lethality in normal and ataxia telangiectasia cell lines treated with bleomycin. MacLeod RA, et al. **Mutat Res** 1996 Nov 11; 372(1):33–42

Rapamycin resistance in ataxia–telangiectasia. Beamish H, et al. **Oncogene** 1996 Sep 5;13(5):963–70

ENZYMOLOGY

Ataxia telangiectasia mutant protein activates c–Abl tyrosine kinase in response to ionizing radiation [see comments] Baskaran R, et al. **Nature** 1997 May 29;387(6632):516–9. Comment in: Nature 1997 May 29;387(6632):450–1.

ETHNOLOGY

Ataxia–telangiectasia: founder effect among north African Jews. Gilad S, et al. **Hum Mol Genet** 1996 Dec;5(12):2033–7

ETIOLOGY

Strange bedfellows in even stranger places: the role of ATM in meiotic cells, lymphocytes, tumors, and its functional links to p53 [comment] Hawley RS, et al. **Genes Dev** 1996 Oct 1;10(19):2383–8 (49 ref.). Comment on: Genes Dev 1996 Oct 1;10(19):2423–37. Comment on: Genes Dev 1996 Oct 1;10(19):2401–10. Comment on: Genes Dev 1996 Oct 1;10(19):2411–22.

Targeted disruption of ATM leads to growth retardation, chromosomal fragmentation during meiosis, immune defects, and thymic lymphoma [see comments] Xu Y, et al. **Genes Dev** 1996 Oct 1;10(19):2411–22. Comment in: Genes Dev 1996 Oct 1;10(19):2383–8.

GENETICS

Genetic mapping using microcell–mediated chromosome transfer suggests a locus for Nijmegen breakage syndrome at chromosome 8q21–24. Matsuura S, et al. **Am J Hum Genet** 1997 Jun;60(6):1487–94

The gene for the ataxia–telangiectasia variant, Nijmegen breakage syndrome, maps to a 1–cM interval on chromosome 8q21. Saar K, et al. **Am J Hum Genet** 1997 Mar;60(3):605–10

Noncomplementation of radiation–induced chromosome aberrations in ataxia–telangiectasia/ataxia–telangiectasia–variant heterodikaryons [letter] Stumm M, et al. **Am J Hum Genet** 1997 May;60(5):1246–51

A high frequency of distinct ATM gene mutations in ataxia–telangiectasia. Wright J, et al. **Am J Hum Genet** 1996 Oct;59(4):839–46

The genetic defect in ataxia–telangiectasia. Lavin MF, et al. **Annu Rev Immunol** 1997;15:177–202 (208 ref.)

Alterations in p53 do not correlate with radioresistant DNA synthesis. Laderoute MP. **Anticancer Res** 1996 Sep–Oct; 16(5A):2825–30

Dose–rate effect on induction and repair rate of radiation–induced DNA double–strand breaks in a normal and an ataxia telangiectasia human fibroblast cell line. Foray N, et al. **Biochimie** 1995;77(11):900–5

The phakomatoses: recent advances in genetics. MacDonald IM, et al. **Can J Ophthalmol** 1997 Feb;32(1):4–11 (81 ref.)

Molecular genotyping shows that ataxia–telangiectasia heterozygotes are predisposed to breast cancer. Athma P, et al. **Cancer Genet Cytogenet** 1996 Dec;92(2):130–4

Cytogenetic and molecular studies of siblings with ataxia telangiectasia followed for 7 years. Renedo M, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):178–82

Mammalian X ray sensitive mutants: a tool for the elucidation of the cellular response to ionizing radiation. Zdzienicka MZ. **Cancer Surv** 1996;28:281–93 (62 ref.)

Linkage studies exclude the AT–V gene(s) from the translocation breakpoints in an AT–V patient. Chrzanowska K, et al. **Clin Genet** 1997 May;51(5):309–13

Ataxia–telangiectasia: a multifaceted genetic disorder associated with defective signal transduction. Lavin MF, et al. **Curr Opin Immunol** 1996 Aug;8(4):459–64 (47 ref.)

Exon–scanning mutation analysis of the ATM gene in patients with ataxia–telangiectasia. Vořechovský I, et al. **Eur J Hum Genet** 1996;4(6):352–5

Ataxia–telangiectasia locus: sequence analysis of 184 kb of human genomic DNA containing the entire ATM gene. Platzer M, et al. **Genome Res** 1997 Jun;7(6):592–605

The structure and organization of the human NPAT gene. Imai T, et al. **Genomics** 1997 Jun 15;42(3):388–92

Construction of a transcription map around the gene for ataxia telangiectasia: identification of at least four novel genes. Stankovic T, et al. **Genomics** 1997 Mar 1; 40(2):267–76

A gene transcribed from the bidirectional ATM promoter coding for a serine rich protein: amino acid sequence, structure and expression studies. Byrd PJ, et al. **Hum Mol Genet** 1996 Nov;5(11):1785–91

Diversity of ATM gene mutations detected in patients with ataxia–telangiectasia. Concannon P, et al. **Hum Mutat** 1997; 10(2):100–7 (40 ref.)

Cytogenetic studies in ataxia telangiectasia & their use in prenatal diagnosis. Chowdhury MR, et al. **Indian J Med Res** 1996 Mar;103:155–8

Chromosomal sensitivity to clastogenic agents and cell cycle perturbations in Nijmegen breakage syndrome lymphoblastoid cell lines. Antoccia A, et al. **Int J Radiat Biol** 1997 Jan;71(1):41–9

Comments on the paper: the ATM gene and the radiobiology of ataxia–telangiectasia [letter; comment] Foray N, et al. **Int J Radiat Biol** 1997 Apr;71(4):449–50. Comment on: Int J Radiat Biol 1996 May;69(5):527–37.

Dose–rate sparing for micronucleus induction in lymphocytes of controls and ataxia–telangiectasia heterozygotes exposed to 60Co gamma–irradiation in vitro. Scott D, et al. **Int J Radiat Biol** 1996 Nov;70(5):521–7

Prolonged c–jun expression in irradiated ataxia telangiectasia fibroblasts. Hallahan DE, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):355–60

Regulation of p53 in response to ionizing radiation in ataxia telangiectasia fibroblasts. Jung M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):417–22

Ataxia–telangiectasia and the ATM gene: linking neurodegeneration, immunodeficiency, and cancer to cell cycle checkpoints. Shiloh Y, et al. **J Clin Immunol** 1996 Sep;16(5):254–60 (95 ref.)

Nijmegen breakage syndrome. van der Burgt I, et al. **J Med Genet** 1996 Feb;33(2):153–6 (25 ref.)

A–T research is "A work in progress" [news] Kuska B. **J Natl Cancer Inst** 1996 Oct 16;88(20):1424–6

"AT risk" for breast cancer. Bebb G, et al. **Lancet** 1997 Jun 21;349(9068):1784–5

Ataxia telangiectasia and risk of breast cancer [letter] Swift M. **Lancet** 1997 Sep 6;350(9079):740

Ataxia telangiectasia and risk of breast cancer [letter] Werneke U. **Lancet** 1997 Sep 6;350(9079):739–40

CAND3: a ubiquitously expressed gene immediately adjacent and in opposite transcriptional orientation to the ATM gene at 11q23.1. Chen X, et al. **Mamm Genome** 1997 Feb; 8(2):129–33

A frequent polymorphism of the gene mutated in ataxia telangiectasia. Dörk T, et al. **Mol Cell Probes** 1997 Feb; 11(1):71–3

The defect in the AT–like hamster cell mutants is complemented by mouse chromosome 9 but not by any of the human chromosomes. Jongmans W, et al. **Mutat Res** 1996 Oct 18;364(2):91–102

Chromosomal breakage correlates with delayed lethality in normal and ataxia telangiectasia cell lines treated with bleomycin. MacLeod RA, et al. **Mutat Res** 1996 Nov 11; 372(1):33–42

Reduced telomere length in ataxia–telangiectasia fibroblasts. Xia SJ, et al. **Mutat Res** 1996 Sep 2;364(1):1–11

Clustering of missense mutations in the ataxia–telangiectasia gene in a sporadic T–cell leukaemia. Vořechovský I, et al. **Nat Genet** 1997 Sep;17(1):96–9

Ataxia–telangiectasia: structural diversity of untranslated sequences suggests complex post–transcriptional regulation of ATM gene expression. Savitsky K, et al. **Nucleic Acids Res** 1997 May 1;25(9):1678–84

Loss of heterozygosity in human breast carcinomas in the ataxia telangiectasia, Cowden disease and BRCA1 gene regions. Kerangueven F, et al. **Oncogene** 1997 Jan 23; 14(3):339–47

Chromosome end–to–end associations and telomerase activity during cancer progression in human cells after treatment with alpha–particles simulating radon progeny. Pandita TK, et al. **Oncogene** 1996 Oct 3;13(7):1423–30

Cellular localisation of the ataxia–telangiectasia (ATM) gene product and discrimination between mutated and normal forms. Watters D, et al. **Oncogene** 1997 Apr 24; 14(16):1911–21

Pleiotropic defects in ataxia–telangiectasia protein–deficient mice. Elson A, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13084–9

Overexpression of a truncated human topoisomerase III partially corrects multiple aspects of the ataxia–telangiectasia phenotype. Fritz E, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4538–42

Isolation of full–length ATM cDNA and correction of the ataxia–telangiectasia cellular phenotype. Zhang N, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8021–6

Molecular perspectives on cancer, the cell cycle and the inherited disorder ataxia–telangiectasia. Brown KD, et al. **Prog Clin Biol Res** 1997;396:101–13 (81 ref.)

Generation of a panel of radiation–reduced hybrids containing human 11q22–23 fragments bearing a HPRT selective marker: identification of hybrids carrying various subregions around the ataxia–telangiectasia locus. Ejima Y, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):499–509

[Genetic predisposition and radiation sensitivity of tumors] Budach W. **Strahlenther Onkol** 1997 Sep;173(9):469–79 (52 ref.) (Eng. Abstr.) **(Ger)**

[Genetic instability and human diseases] Umezu K, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2335–48 (60 ref.) **(Jpn)**

IMMUNOLOGY

Ataxia–telangiectasia and the ATM gene: linking neurodegeneration, immunodeficiency, and cancer to cell cycle checkpoints. Shiloh Y, et al. **J Clin Immunol** 1996 Sep;16(5):254–60 (95 ref.)

METABOLISM

Genomic Organization of the ATM gene. Uziel T, et al. **Genomics** 1996 Apr 15;33(2):317–20

Elevated frequency of p53–independent apoptosis after irradiation increases levels of DNA breaks in ataxia telangiectasia lymphoblasts. Humar B, et al. **Int J Radiat Biol** 1997 Sep;72(3):257–69

Interaction between ATM protein and c–Abl in response to DNA damage [see comments] Shafman T, et al. **Nature** 1997 May 29;387(6632):520–3. Comment in: Nature 1997 May 29;387(6632):450–1.

[The mechanism of radioresistant DNA synthesis in ataxia telangiectasia] Barenfel'd LS, et al. **Tsitologiia** 1997; 39(1):20–4 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Kinetics of G1/S and G2/M transition in X–irradiated ataxia–telangiectasia cells. Skog S, et al. **Cancer Detect Prev** 1997;21(1):91–102

Cutaneous granulomas as a presenting sign in ataxia–telangiectasia. Drolet BA, et al. **Dermatology** 1997; 194(3):273–5 (16 ref.)

Hypersensitivity of ataxia telangiectasia fibroblasts to ionizing radiation is associated with a repair deficiency of DNA double–strand breaks. Foray N, et al. **Int J Radiat Biol** 1997 Sep;72(3):271–83

Elevated frequency of p53–independent apoptosis after irradiation increases levels of DNA breaks in ataxia telangiectasia lymphoblasts. Humar B, et al. **Int J Radiat Biol** 1997 Sep;72(3):257–69

Enhancement of frequencies of restriction endonuclease–induced chromatid breaks by arabinoside adenine in normal human and ataxia telangiectasia cells. Liu N, et al. **Int J Radiat Biol** 1997 Sep;72(3):285–92

Increased apoptotic response to 2–deoxy–D–ribose in ataxia–telangiectasia. Battisti C, et al. **J Neurol Sci** 1996 Dec;144(1–2):128–34

Reduced telomere length in ataxia–telangiectasia fibroblasts. Xia SJ, et al. **Mutat Res** 1996 Sep 2;364(1):1–11

PHYSIOPATHOLOGY

M. Stephen Meyn, ataxia telangiectasia and cellular responses to DNA damage. Cancer Res., 55:5991–6001, 1995 [letter] Brown JM. **Cancer Res** 1997 Jun 1;57(11):2313–5

Ataxia telangiectasia: cell signaling, cell death and the cell cycle. Heintz N. **Curr Opin Neurol** 1996 Apr;9(2):137–40

Defective signaling through the B cell antigen receptor in Epstein–Barr virus–transformed ataxia–telangiectasia cells. Khanna KK, et al. **J Biol Chem** 1997 Apr 4;272(14):9489–95

Fragments of ATM which have dominant–negative or complementing activity. Morgan SE, et al. **Mol Cell Biol** 1997 Apr;17(4):2020–9

The role of Ataxia telangiectasia and the DNA–dependent protein kinase in the p53–mediated cellular response to ionising radiation. Jongmans W, et al. **Oncogene** 1996 Sep 19;13(6):1133–8

THERAPY

Transfusion–associated graft–versus–host disease in ataxia telangiectasia [letter] Watson HG, et al. **Lancet** 1997 Jan 18;349(9046):179

ATAXIAS, HEREDITARY see **SPINOCEREBELLAR DEGENERATION**

ATELECTASIS

Middle ear gas composition in pathologic conditions: mass spectrometry in otitis media with effusion and atelectasis. Hergils L, et al. **Ann Otol Rhinol Laryngol** 1997 Sep; 106(9):743–5

CLASSIFICATION

Types and mechanisms of pulmonary atelectasis. Woodring JH, et al. **J Thorac Imaging** 1996 Spring;11(2):92–108 (70 ref.)

COMPLICATIONS

Percutaneous balloon catheter closure of a patent foramen ovale in a patient with pulmonary disease, profound hypoxemia, and normal right heart pressures. Allan JJ, et al. **Clin Cardiol** 1997 Mar;20(3):307–9

Microatelectasis in patients with secundum atrial septal defect and its relation to pulmonary hypertension. Yamaki S, et al. **Jpn Circ J** 1997 May;61(5):384–9

Left recurrent nerve paralysis associated with complete lung collapse with consolidation in an adult with cystic fibrosis. Thompson RD, et al. **Respir Med** 1996 Oct;90(9):567–9

[A study on the mechanism of severe hypoxemia associated with acute unilateral atelectasis in dogs] Deng X, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1996 Feb; 19(1):22–5 (Eng. Abstr.) **(Chi)**

DIAGNOSIS

Rounded atelectasis. Batra P, et al. **J Thorac Imaging** 1996 Summer;11(3):187–97 (34 ref.)

Imaging evaluation of obstructive atelectasis. Molina PL, et al. **J Thorac Imaging** 1996 Summer;11(3):176–86 (49 ref.)

Magnetic resonance imaging of rounded atelectasis. Yamaguchi T, et al. **J Thorac Imaging** 1997 Jul;12(3):188–94

[High resolution computed tomography in the diagnosis of lung disease in a 13–year–old boy] Kalaciński W, et al. **Pediatr Pol** 1996 Jun;71(6):549–53 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Effect of modulators of hypoxic pulmonary vasoconstriction on the response to inhaled nitric oxide in a neonatal model of severe pulmonary atelectasis. Eyal FG, et al. **Semin Perinatol** 1996 Jun;20(3):186–93

EPIDEMIOLOGY

[Postoperative early complication of primary lung cancer] Yamanda T, et al. **Kyobu Geka** 1996 Aug;49(9):721–4 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Atelectasis and pulmonary shunting during induction of general anaesthesia—can they be avoided? Rothen HU, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):524–9

Endotracheal suctioning causes right upper lobe collapse in intubated children. Boothroyd AE, et al. **Acta Paediatr** 1996 Dec;85(12):1422–5

Pseudomass due to atelectasis in patients with severe bullous emphysema. Gierada DS, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):85–92

Postoperative pulmonary function after laparoscopic and open cholecystectomy. Karayiannakis AJ, et al. **Br J Anaesth** 1996 Oct;77(4):448–52

Predictors of postoperative pulmonary complications following abdominal surgery. Brooks–Brunn JA. **Chest** 1997 Mar;111(3):564–71

Complete lobar collapse following pulmonary lobectomy. Its incidence, predisposing factors, and clinical ramifications. Korst RJ, et al. **Chest** 1997 May;111(5):1285–9

Is atelectasis following aortocoronary bypass related to temperature? Thomas JA, et al. **Chest** 1997 May; 111(5):1290–4

Obstructive atelectasis in patients with small cell lung cancer. Incidence and response to treatment. Vaaler AK, et al. **Chest** 1997 Jan;111(1):115–20

Bilateral lung collapse in an asthmatic patient during thoracotomy. Nesbitt EH, et al. **J Clin Anesth** 1997 Sep; 9(6):499–500

Obstructive atelectasis associated with nasotracheal intubation: a case report. Vikari CA, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):992–6 (15 ref.)

Thoracic complications in patients undergoing intraperitoneal heated chemotherapy with mitomycin following cytoreductive surgery. Chen MY, et al. **J Surg Oncol** 1997 Sep;66(1):19–23

Atypical manifestations of pulmonary atelectasis. Gurney JW. **J Thorac Imaging** 1996 Summer;11(3):165–75 (41 ref.)

[Hypoxemia and pulmonary atelectasis after laparoscopic cholecystectomy] Di Vita G, et al. **G Chir** 1997 Jan–Feb; 18(1–2):19–22 (Eng. Abstr.) **(Ita)**

[The lung reventilation syndrome after a superior lobectomy for a giant ectopic thymoma with prolonged compression of the chest organs] Volchkov AS, et al. **Vestn Khir Im I I Grek** 1996;155(4):22–3 **(Rus)**

[Atelectasis and active pulmonary tuberculosis in an 18–year–old male] Yus Fuertes M, et al. **Rev Clin Esp** 1996 Aug;196(8):557–8 **(Spa)**

PATHOLOGY

The influence of collapse of the lung parenchyma on the morphology of pulmonary blood vessels in the rat. Buyssens N, et al. **Acta Anat (Basel)** 1996;155(1):22–8

PHYSIOPATHOLOGY

Surfactant dysfunction makes lungs vulnerable to repetitive collapse and reexpansion. Taskar V, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):313–20

Chronic maxillary atelectasis. Kass ES, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):109–16

V/Q distribution and correlation to atelectasis in anesthetized paralyzed humans. Tokics L, et al. **J Appl Physiol** 1996 Oct;81(4):1822–33

PREVENTION & CONTROL

Value of body plethysmography in preoperative assessment of thoracotomy candidates. Scholz S, et al. **Eur J Cardiothorac Surg** 1996;10(5):312–9

Chest physiotherapy and post–extubation atelectasis in infants. Al–Alaiyan S, et al. **Pediatr Pulmonol** 1996 Apr; 21(4):227–30

[A study of surgical treatment in lung cancer over 75 years of age–effect of epidural anesthesia for protection of postoperative coughing disturbance] Tabata T, et al. **Kyobu Geka** 1996 May;49(5):347–51; discussion 351–2 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Lobar collapse: basic concepts. Proto AV. **Eur J Radiol** 1996 Aug;23(1):9–22 (28 ref.)

Evaluation of the reliability of computed tomographic criteria used in the diagnosis of round atelectasis. O'Donovan PB, et al. **J Thorac Imaging** 1997 Jan;12(1):54–8

Bronchoarterial inversion: radiographic–CT correlation in combined right middle and lower lobe collapse. Saida Y, et al. **J Thorac Imaging** 1997 Jan;12(1):59–63

Effects of lobar atelectasis on the distribution of pleural effusion and pneumothorax. Stark P, et al. **J Thorac Imaging** 1996 Spring;11(2):145–9

Radiographic manifestations of lobar atelectasis. Woodring JH, et al. **J Thorac Imaging** 1996 Spring;11(2):109–44 (38 ref.)

Rounded atelectasis formation following decrease of pleural effusion: a case report. Sasaki M, et al. **Radiat Med** 1996 Nov–Dec;14(6):331–3

[Unilateral lung transradiency. Swyer–James or MacLeod syndrome] Köcher M, et al. **Radiologe** 1997 Jun;37(6):486–9 **(Ger)**

[A case of enlarging rounded atelectasis difficult to distinguish from a pulmonary neoplasm] Nishizaki K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1416–9 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Pseudostripe sign in lobar collapse. Feldman DR, et al. **J Nucl Med** 1996 Oct;37(10):1682–3

RADIOTHERAPY

Treatment delay in lung cancer–associated atelectasis [letter] Ampil FL. **Intensive Care Med** 1997 Mar;23(3):351

THERAPY

Direct tracheobronchial suction for massive post–extubation atelectasis in premature infants. Soong WJ, et al. **Acta Paediatr Sin** 1996 Jul–Aug;37(4):266–71

Therapeutic fibreoptic bronchoscopy in critically ill patients via laryngeal mask. Llagunes J, et al. **Anaesth Intensive Care** 1996 Jun;24(3):396–7

Bronchoscopic insufflation in lobar atelectasis [letter; comment] Ntoumenopoulos G. **Anaesth Intensive Care** 1996 Dec;24(6):730–1. Comment on: Anaesth Intensive Care 1995 Apr;23(2):175–7.

As originally published in 1988: Reexpansion pulmonary edema. Updated in 1997. Trachiotis GD, et al. **Ann Thorac Surg** 1997 Apr;63(4):1206–7

Resolution of recurrent atelectasis in spinal cord injury patients with administration of recombinant human DNase. Voelker KG, et al. **Intensive Care Med** 1996 Jun;

22(6):582–4
Rigid bronchoscopy and jet ventilation in an extremely low birthweight infant. Fan PC, et al. **J Formos Med Assoc** 1996 Dec;95(12):937–9
Ipsilateral bronchial intubation in a neonate for expansion of post–operative unilateral atelectasis—case report. Baraka A, et al. **Middle East J Anesthesiol** 1997 Jun;14(2):83–90
Persistent pulmonary consolidation treated with intrapulmonary percussive ventilation: a preliminary report. Birnkrant DJ, et al. **Pediatr Pulmonol** 1996 Apr;21(4):246–9
The effectiveness of incentive spirometry with physical therapy for high–risk patients after coronary artery bypass surgery. Crowe JM, et al. **Phys Ther** 1997 Mar;77(3):260–8
Catastrophic circulatory collapse following re–expansion pulmonary oedema. Gascoigne A, et al. **Resuscitation** 1996 Jun;31(3):265–9
[Surfactant administration and laterally independent positive pressure ventilation in acute lung failure and atelectasis after septic abortion. Case report] Hoheisel G, et al. **Pneumologie** 1997 Mar;51(3):270–3 (Eng. Abstr.) **(Ger)**

ATELECTASIS, CONGESTIVE see **RESPIRATORY DISTRESS SYNDROME, ADULT**

ATELES see **CEBIDAE**

ATELINAE see **CEBIDAE**

ATENOLOL

ADMINISTRATION & DOSAGE

Effects of bunazosin and atenolol on serum lipids and apolipoproteins in a randomised trial. Schmitz G, et al. **Blood Press** 1996 Nov;5(6):354–9
Use of ratings of perceived exertion for predicting maximal work rate and prescribing exercise intensity in patients taking atenolol [see comments] Eston RG, et al. **Br J Sports Med** 1997 Jun;31(2):114–9. Comment in: Br J Sports Med 1997 Jun;31(2):93.
Exercise metabolism in healthy volunteers taking celiprolol, atenolol, and placebo [see comments] Head A, et al. **Br J Sports Med** 1997 Jun;31(2):120–5. Comment in: Br J Sports Med 1997 Jun;31(2):93.
Comparative bioavailability of two atenolol tablet formulations in healthy male volunteers after a single dose administration. Martins ML, et al. **Int J Clin Pharmacol Ther** 1997 Aug;35(8):324–8
The effects of atenolol and zofenopril on plasma atrial natriuretic peptide are due to their interactions with target organ damage of essential hypertensive patients. Elijovich F, et al. **J Hum Hypertens** 1997 May;11(5):313–9
Structure and function of resistance arteries of hypertensive patients treated with a beta–blocker or a calcium channel antagonist. Schiffrin EL, et al. **J Hypertens** 1996 Oct; 14(10):1247–55
Effects of atenolol as add–on therapy to fosinopril in heart failure. Pacher R, et al. **Wien Klin Wochenschr** 1997 Apr 11;109(7):232–8

ADVERSE EFFECTS

Effect of atenolol on birth weight. Lip GY, et al. **Am J Cardiol** 1997 May 15;79(10):1436–8
Refractory anaphylactoid shock potentiated by beta–blockers. Javeed N, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):383–4 (8 ref.)
Quality of life before and during antihypertensive treatment: a comparative study of celiprolol and atenolol. Cleophas TJ, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):312–7
Atenolol–induced lupus erythematosus. McGuiness M, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):298–9 (16 ref.)
Antenatal exposure to atenolol and retroperitoneal fibromatosis. Satgé D, et al. **Reprod Toxicol** 1997 Jul–Aug; 11(4):539–41
Atenolol induced memory impairment: a case report. Ramanathan M. **Singapore Med J** 1996 Apr;37(2):218–9
[Atenolol: its cardiorespiratory effects at birth in a premature infant] Zanardo V, et al. **Pediatr Med Chir** 1997 May–Jun; 19(3):149–51 (8 ref.) **(Ita)**

ANALYSIS

Development and validation of a capillary zone electrophoretic method for the determination of atenolol in presence of its related substances in bulk and tablet dosage form. Shafaati A, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1547–54

BLOOD

Chiral assay of atenolol present in microdialysis and plasma samples of rats using chiral CBH as stationary phase. Fornstedt T, et al. **Chirality** 1997;9(4):329–34
Efficient assay for the determination of atenolol in human plasma and urine by high–performance liquid chromatography with fluorescence detection. Chiu FC, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):473–7
A micro liquid chromatographic assay for the determination of plasma–unbound atenolol. Cheng FC, et al. **J Pharm Biomed Anal** 1996 Jun;14(8–10):1169–74

CHEMISTRY

Preformulation studies of atenolol in oral liquid dosage form. I. Effect of pH and temperature. Hatem A, et al. **Acta Pharm Hung** 1996 Jul;66(4):177–80

ISOLATION & PURIFICATION

Chiral separation in capillary electrophoresis. Wren SA. **Electrophoresis** 1995 Nov;16(11):2127–31

PHARMACOKINETICS

Pharmacokinetics of atenolol in clinically normal cats. Quiñones M, et al. **Am J Vet Res** 1996 Jul;57(7):1050–3
Comparative pharmacokinetics of two brands of atenolol following a single oral administration. Irshaid YM, et al. **Int J Clin Pharmacol Ther** 1996 Oct;34(10):457–61
Comparative bioavailability of two atenolol tablet formulations in healthy male volunteers after a single dose administration. Martins ML, et al. **Int J Clin Pharmacol Ther** 1997 Aug;35(8):324–8

PHARMACOLOGY

Effects of atenolol versus enalapril on cardiovascular fitness and serum lipids in physically active hypertensive men. Gordon NF, et al. **Am J Cardiol** 1997 Apr 15;79(8):1065–9
Beta–blockade reduces effects of adenosine and carbachol by transregulation of inhibitory receptors and Gi proteins. Borst MM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1672–9
Effect of calcium channel blockade on skin blood flow in diabetic hypertension: a comparison of isradipine and atenolol. Rendell MS, et al. **Angiology** 1997 Mar; 48(3):203–13
Cardiovascular responses to beta–blockade and 5 degrees C cold air stress. Headley SA, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):112–5
Effects of carvedilol and atenolol on arterial pulse curves (plethysmography) and finger temperature after hand cooling. Klemsdal TO, et al. **Eur J Clin Pharmacol** 1996; 50(6):483–9
Pharmacological properties of nebivolol in man. Van Bortel LM, et al. **Eur J Clin Pharmacol** 1997;51(5):379–84
Effect of chronic treatment with atenolol and prazosin in streptozotocin induced diabetic rats. Goyal RK, et al. **Indian J Physiol Pharmacol** 1996 Jul;40(3):220–4
Beta 1–adrenoreceptors regulate resting metabolic rate. Lamont LS, et al. **Med Sci Sports Exerc** 1997 Jun; 29(6):769–74
Central propranolol and pindolol, but not atenolol nor metoprolol, inhibit sexual behavior in male rats. Smith ER, et al. **Physiol Behav** 1996 Feb;59(2):241–6
Effect of atenolol on nocturnal sleep and temperature in young men: reversal by pharmacological doses of melatonin. Van Den Heuvel CJ, et al. **Physiol Behav** 1997 Jun;61(6):795–802
[Comparison between digoxin and atenolol in chronic atrial fibrillation] Lanas F, et al. **Rev Med Chil** 1995 Oct; 123(10):1252–62 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Effect of atenolol on QT interval and dispersion in patients with syndrome X. Leonardo F, et al. **Am J Cardiol** 1997 Sep 15;80(6):789–90
Effect of atenolol and reserpine on selected events in the systolic hypertension in the elderly program (SHEP). Kostis JB, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1147–53
Metabolic and cardiovascular effects of carvedilol and atenolol in non–insulin–dependent diabetes mellitus and hypertension. A randomized, controlled trial. Giugliano D, et al. **Ann Intern Med** 1997 Jun 15;126(12):955–9
Proximal tubular function in essential hypertensives on beta–blocker therapy with atenolol. Krusell LR, et al. **Blood Press** 1997 May;6(3):166–70
Comparison of temocapril and atenolol in the long–term treatment of mild to moderate essential hypertension. Sierakowski B, et al. **Blood Press** 1997 Jul;6(4):229–34
A study to investigate the comparative efficacy and tolerability of nisoldipine coat–core and atenolol in the treatment of mild to moderate hypertension. Murray TS. **Br J Clin Pract** 1996 Oct–Nov;50(7):368–72
PROTECT (Prospective Reinfarction Outcomes in the Thrombolytic Era Cardizem CD Trial): a randomized, double–blind clinical trial of diltiazem versus atenolol in secondary prophylaxis post non–Q wave myocardial infarction [see comments] Goodman S, et al. **Can J Cardiol** 1996 Nov;12(11):1183–90. Comment in: Can J Cardiol 1997 Jul;13(7):693, 696.
Evaluation of the sympathetic nervous system using heart rate variability and plasma hormones in hypertensive patients treated with cilazapril and atenolol. Campelo M, et al. **Cardiology** 1996 Sep–Oct;87(5):402–8
Effect of bunazosin and atenolol on glucose metabolism in obese, nondiabetic patients with primary hypertension. Bönner G, et al. **Cardiovasc Drugs Ther** 1997 Mar; 11(1):21–6
Acute hemodynamic effects of amlodipine 15 days after a myocardial infarction in normotensive patients treated with atenolol. Rocha P, et al. **Cardiovasc Drugs Ther** 1997 Apr; 11(2):139–47
Comparison of clinical efficacy and adverse effects between extended–release felodipine and atenolol in patients with mild and moderate essential hypertension. Chern MS, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):86–93
Asymptomatic Cardiac Ischemia Pilot (ACIP) study two–year follow–up: outcomes of patients randomized to initial strategies of medical therapy versus revascularization [see comments] Davies RF, et al. **Circulation** 1997 Apr 15; 95(8):2037–43. Comment in: Circulation 1997 Apr 15;95(8):1992–3.
Hypertension in Diabetes Study IV. Therapeutic requirements to maintain tight blood pressure control [published erratum appears in Diabetologia 1997 Mar;40(3):366] **Diabetologia** 1996 Dec;39(12):1554–61
Renal and metabolic effects of 1–year treatment with ramipril or atenolol in NIDDM patients with microalbuminuria. Schnack C, et al. **Diabetologia** 1996 Dec;39(12):1611–6
Lisinopril reduces postexercise albuminuria more effectively than atenolol in primary hypertension. Rangemark C, et al. **Eur J Clin Pharmacol** 1996;49(4):267–71
Atenolol prophylaxis in migraine secondary to an arteriovenous malformation. Kowacs PA, et al. **Headache** 1996 Nov–Dec;36(10):625–7
Impaired left ventricular filling dynamics in patients with angina and angiographically normal coronary arteries: effect of beta adrenergic blockade. Fragasso G, et al. **Heart** 1997 Jan;77(1):32–9
Effect of calcium channel or beta–blockade on the progression of diabetic nephropathy in African Americans. Bakris GL, et al. **Hypertension** 1997 Mar;29(3):744–50
Nifedipine gastrointestinal therapeutic system versus atenolol in stable angina pectoris. The Netherlands Working Group on Cardiovascular Research (WCN). de Vries RJ, et al. **Int J Cardiol** 1996 Dec 6;57(2):143–50
Heart rate variability after acute myocardial infarction in patients treated with atenolol and metoprolol. Lurje L, et al. **Int J Cardiol** 1997 Jul 25;60(2):157–64
Quality of life before and during antihypertensive treatment: a comparative study of celiprolol and atenolol. Cleophas TJ, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):312–7
Randomized controlled trial of ACE–inhibitors and beta–blockers with and without vasodilating activity in chronic glomerulonephritis. Erley CM, et al. **Int J Clin Pharmacol Ther** 1996 Nov;34(11):504–9
Metabolic effects of spirapril and atenolol: results from a randomized, long–term study. Hakamäki T, et al. **Int J Clin Pharmacol Ther** 1997 Jun;35(6):227–30
Direct effects of chronic beta–adrenergic receptor blockade on left ventricular and myocyte function in a model of tachycardia–induced congestive heart failure. Spinale FG, et al. **J Card Fail** 1996 Dec;2(4):311–8
Long–term beta 1–adrenergic blockade restores adrenomedullary activity in primary hypertension. Jacobs MC, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):338–42
Atenolol for prevention of postsurgical cardiovascular events. Shapley–Quinn K, et al. **J Fam Pract** 1997 Mar; 44(3):243, 247
ACE inhibitor ramipril is more effective than the beta–blocker atenolol in reducing left ventricular mass in hypertension. Results of the RACE (ramipril cardioprotective evaluation) study on behalf of the RACE study group. Agabiti–Rosei E, et al. **J Hypertens** 1995 Nov; 13(11):1325–34
Insulin sensitivity following treatment with the alpha 1–blocker bunazosin retard and the beta 1–blocker atenolol in hypertensive non–insulin–dependent diabetes mellitus patients. Eriksson JW, et al. **J Hypertens** 1996 Dec; 14(12):1469–75
Prevention of heart failure by antihypertensive drug treatment in older persons with isolated systolic hypertension. SHEP Cooperative Research Group. Kostis JB, et al. **JAMA** 1997 Jul 16;278(3):212–6
Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery [letter; comment] Devereaux PJ, et al. **N Engl J Med** 1997 May 15;336(20):1452–3; discussion 1453–4. Comment on: N Engl J Med 1996 Dec 5;335(23):1713–20.
Reducing cardiovascular risk in patients undergoing noncardiac surgery [editorial; comment] Eagle KA, et al. **N Engl J Med** 1996 Dec 5;335(23):1761–3. Comment on: N Engl J Med 1996 Dec 5;335(23):1713–20.
Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery. Multicenter Study of Perioperative Ischemia Research Group [see comments] [published erratum appears in N Engl J Med 1997 Apr 3;336(14):1039] Mangano DT, et al. **N Engl J Med** 1996 Dec 5;335(23):1713–20. Comment in: N Engl J Med 1996 Dec 5;335(23):1761–3. Comment in: N Engl J Med 1997 May 15;336(20):1452; discussion 1453–4. Comment in: N Engl J Med 1997 May 15;336(20):1452–3; discussion 1453–4. Comment in: N Engl J Med 1997 May 15;336(20):1453; discussion 1453–4. Comment in: ACP J Club 1997 May–Jun;126(3):58.
Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery [letter; comment] Petros JA. **N Engl J Med** 1997 May 15;336(20):1452; discussion 1453–4 . Comment on: N Engl J Med 1996 Dec 5;335(23):1713–20.
Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery [letter; comment] Reis SE, et al. **N Engl J Med** 1997 May 15;336(20):1453; discussion 1453–4 . Comment on: N Engl J Med 1996 Dec 5;335(23):1713–20.
Long–term efficacy and safety of atenolol for supraventricular tachycardia in children. Mehta AV, et al.

ATENOLOL

Pediatr Cardiol 1996 Jul-Aug;17(4):231-6

Cardiovascular collapse due to intravenous verapamil in two patients with persistent atrial tachycardia. Lawrenson JB, et al. **S Afr Med J** 1995 Nov;85(11 Suppl):1236-8

Beta-blockers and nitrates in patients with peripheral arterial occlusive disease: long-term findings. Schweizer J, et al. **Vasa** 1997;26(1):43-6

Use of beta-blockade to prevent death after noncardiac surgery. Wallace A, et al. **West J Med** 1997 Mar; 166(3):203-4

[Comparative effects of captopril and atenolol on lipid metabolism in hypertensive hypercholesterolemic patients treated with pravastatin. A multicenter controlled trial] Witchitz S, et al. **Presse Med** 1996 Dec 21;25(40):2013-6 (Eng. Abstr.) **(Fre)**

[Comparative antihypertensive action of 20 mg delayed-action nifedipine with either 25 or 50 mg atenolol. A study on the treatment of patients with mild to moderately severe arterial hypertension] Kraft K, et al. **Schweiz Rundsch Med Prax** 1996 Sep 3;85(36):1081-6 (Eng. Abstr.) **(Ger)**

[Atenolol in treatment of patients with airway obstruction] Chazan R. **Pol Merkuriusz Lek** 1996 Dec;1(6):428-30 (44 ref.) (Eng. Abstr.) **(Pol)**

URINE

Efficient assay for the determination of atenolol in human plasma and urine by high-performance liquid chromatography with fluorescence detection. Chiu FC, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):473-7

ATHERECTOMY

see related

ENDARTERECTOMY

Intraoperative vascular endoscopy: early and late results. Ahn SS, et al. **Ann Vasc Surg** 1996 Sep;10(5):443-51

Directional atherectomy and balloon angioplasty for lower extremity arterial disease. Osborn JJ, et al. **Ann Vasc Surg** 1997 May;11(3):278-83

Percutaneous transluminal rotational atherectomy in the treatment of peripheral vascular disease using a transluminal endatherectomy catheter (TEC): initial results and angiographic follow-Up. Rilinger N, et al. **Cardiovasc Intervent Radiol** 1997 Jul-Aug;20(4):263-7

Transluminal extraction atherectomy for aortosaphenous vein graft stent restenosis. Patel JJ, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):320-4

Remodeling of human coronary arteries undergoing coronary angioplasty or atherectomy. Kimura T, et al. **Circulation** 1997 Jul 15;96(2):475-83

Comparison of coronary luminal quantification obtained from intracoronary ultrasound and both geometric and videodensitometric quantitative angiography before and after balloon angioplasty and directional atherectomy. Ozaki Y, et al. **Circulation** 1997 Jul 15;96(2):491-9

Comparison of balloon angioplasty and Simpson atherectomy for lesions in the femoropopliteal artery: angiographic and clinical results of a prospective randomized trial. Tielbeek AV, et al. **J Vasc Interv Radiol** 1996 Nov-Dec;7(6):837-44

The treatment of chronic hemodialysis vascular access by directional atherectomy. Mizumoto D, et al. **Nephron** 1996; 74(1):45-52

[Atherectomy in patients with arteriosclerosis obliterans: angiographic follow-up study of 186 lesions in 146 patients] Kumakura H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):638-43 (Eng. Abstr.) **(Jpn)**

[A case of mycotic ICA petrous portion aneurysm treated with endovascular surgery] Kawakami K, et al. **No Shinkei Geka** 1996 Mar;24(3):253-7 (Eng. Abstr.) **(Jpn)**

[Evaluation of efficacy and mechanism of action of angioplasty and directed atherectomy assisted by intravascular ultrasonography] Kubica J, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):104-7 (Eng. Abstr.) **(Pol)**

ADVERSE EFFECTS

Subacute narrowing of the left main coronary artery following directional atherectomy for proximal obstructive coronary artery disease. Piek JJ, et al. **Cathet Cardiovasc Diagn** 1997 Apr;40(4):361-3

INSTRUMENTATION

Clinical and vascular laboratory determinants for outcome after infrainguinal atherectomy. Myers KA, et al. **Cardiovasc Surg** 1996 Aug;4(4):449-55

Transluminal extraction catheter for acute myocardial infarction. Topaz O, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):291-6 (31 ref.)

Infrainguinal atherectomy using the Auth Rotablator [letter; comment] Ahn SS. **J Endovasc Surg** 1995 Aug;2(3):317-9 . Comment on: J Endovasc Surg 1995 Feb;2(1):67-73.

Percutaneous peripheral atherectomy using the rotablator: a single-center experience [see comments] Henry M, et al. **J Endovasc Surg** 1995 Feb;2(1):51-66. Comment in: J Endovasc Surg 1995 Feb;2(1):74-6.

Infrainguinal atherectomy using the Auth Rotablator: patency rates and clinical success for 36 procedures [see comments] Myers KA, et al. **J Endovasc Surg** 1995 Feb; 2(1):67-73. Comment in: J Endovasc Surg 1995 Feb;2(1):74-6. Comment in: J Endovasc Surg 1995 Aug;2(3):317-9.

Infrainguinal atherectomy using the transluminal endarterectomy catheter: patency rates and clinical success for 144 procedures. Myers KA, et al. **J Endovasc Surg** 1994 Sep;1:61-70

Rotablator: the long and short of it [comment] Wholey MH. **J Endovasc Surg** 1995 Feb;2(1):74-6. Comment on: J Endovasc Surg 1995 Feb;2(1):51-66. Comment on: J Endovasc Surg 1995 Feb;2(1):67-73.

Percutaneous ureteral biopsy with the Simpson atherectomy catheter. Eastwood JD, et al. **J Vasc Interv Radiol** 1996 Mar-Apr;7(2):253-4

Valvectomy with use of a percutaneous directional atherectomy catheter in failing in situ saphenous vein grafts. Weintraub JL, et al. **J Vasc Interv Radiol** 1997 May-Jun; 8(3):355-8

METHODS

[Coronary rotational atherectomy: initial experience at a hospital without a special department for heart surgery] Belli R, et al. **G Ital Cardiol** 1996 Jul;26(7):765-74 (Eng. Abstr.) **(Ita)**

[Clinical results of directional peripheral atherectomy] Hoshino S, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul; 97(7):568-73 (16 ref.) (Eng. Abstr.) **(Jpn)**

ATHERECTOMY, CORONARY

Angiographic predictors of neointimal thickening after successful coronary wall healing following percutaneous revascularization. de Lezo JS, et al. **Am Heart J** 1997 Feb; 133(2):210-20

Short- and long-term outcome of narrowed saphenous vein bypass graft: a comparison of Palmaz-Schatz stent, directional coronary atherectomy, and balloon angioplasty. Waksman R, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):274-81

Rotational coronary atherectomy with adjunctive balloon angioplasty: evaluation of lumen enlargement by quantitative angiographic analysis. Zimarino M, et al. **Am Heart J** 1997 Feb;133(2):203-9

Absence of correlation between coronary thrombosis and postatherectomy restenosis. Arbustini E, et al. **Am J Cardiol** 1997 Jan 15;79(2):188-90

A comparison of debulking versus dilatation of bifurcation coronary arterial narrowings (from the CAVEAT I Trial). Coronary Angioplasty Versus Excisional Atherectomy Trial-I. Brener SJ, et al. **Am J Cardiol** 1996 Nov 1; 78(9):1039-41

Impact of restenosis after optimal directional coronary atherectomy on regional left ventricular function. Coste P, et al. **Am J Cardiol** 1997 Mar 1;79(5):545-52

Use of evidence-based medical therapy in patients undergoing percutaneous coronary revascularization in the United States, Europe, and Canada. Coronary Angioplasty Versus Excisional Atherectomy Trial (CAVEAT-I) and Canadian Coronary Atherectomy Trial (CCAT) investigators. Eisenberg MJ, et al. **Am J Cardiol** 1997 Apr 1;79(7):867-72

Long-term clinical follow-up after directional coronary atherectomy. Grewal KS, et al. **Am J Cardiol** 1997 Mar 1;79(5):553-8

Transluminal extraction atherectomy for restenosis following Palmaz-Schatz stent implantation. Hara K, et al. **Am J Cardiol** 1997 Mar 15;79(6):801-2

Comparison of balloon angioplasty versus debulking devices versus stenting in right coronary ostial lesions. Jain SP, et al. **Am J Cardiol** 1997 May 15;79(10):1334-8

Usefulness of directional coronary atherectomy in patients with acute anterior myocardial infarction. Kurisu S, et al. **Am J Cardiol** 1997 May 15;79(10):1392-4

Impact of diabetes mellitus on percutaneous revascularization (CAVEAT-I). CAVEAT-I Investigators. Coronary Angioplasty Versus Excisional Atherectomy Trial [see comments] Levine GN, et al. **Am J Cardiol** 1997 Mar 15; 79(6):748-55. Comment in: ACP J Club 1997 Sep-Oct;127(2):33.

Results of directional coronary atherectomy in Northern New England. Northern New England Cardiovascular Disease Study Group. O'Rourke DJ, et al. **Am J Cardiol** 1997 Jun 1;79(11):1465-70

Comparison of patients with either < 70% diameter narrowing or > or = 70% narrowing of the right coronary artery when performing rotational atherectomy on > or = 1 narrowing in the left coronary arteries. Reisman M, et al. **Am J Cardiol** 1997 Feb 1;79(3):305-8

Levels of expression of P-selectin, E-selectin, and intercellular adhesion molecule-1 in coronary atherectomy specimens from patients with stable and unstable angina pectoris. Tenaglia AN, et al. **Am J Cardiol** 1997 Mar 15; 79(6):742-7

Effect of rotational atherectomy on quality of life. Dodek A, et al. **Can J Cardiol** 1997 Feb;13(2):131-4

Should we spark interest in rotational atherectomy for in-stent restenosis? [editorial; comment] Belli G, et al. **Cathet Cardiovasc Diagn** 1997 Feb;40(2):150-1. Comment on: Cathet Cardiovasc Diagn 1997 Feb;40(2):144-9.

High-speed rotational atherectomy of tortuous coronary arteries with guidewire-associated pseudostenosis. Bowling LS, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:82-4

Coronary perforation complicating rotational ablation: the U.S. multicenter experience. Cohen BM, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:55-9

Incremental value of intravascular ultrasound during rotational coronary atherectomy. De Franco AC, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:23-33 (26 ref.)

Strategies for the palliation of severe unprotected left main coronary artery disease: use of newer technologies. Foster-Smith K, et al. **Cathet Cardiovasc Diagn** 1995 Dec; 36(4):364-7

Safety and efficacy of elective stent implantation following rotational atherectomy in large calcified coronary arteries. Hong MK, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:50-4

Transcatheter aspiration of atheroma prolapsing through saphenous vein graft stents. Jaffar A, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):258-61

Coronary physiology of percutaneous rotational atherectomy. Khoury A, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:15-22 (19 ref.)

Coronary blood flow velocities during rotational atherectomy. Kumar K, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):152-6

High-speed rotational atherectomy for chronic total coronary occlusions. Levin TN, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:34-9

Urgent rotational ablation of a partially protected, totally occluded left main coronary artery. Lotan C, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:78-81

Salvage atherectomy: using retrieved tissue to determine the etiology of acute closure. Mayeda GS, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):283-6

Plaque rupture as a cause of apparent coronary aneurysm formation following directional coronary atherectomy. Moriuchi M, et al. **Cathet Cardiovasc Diagn** 1997 May; 41(1):48-50

Coronary hemodynamics before and after rotational atherectomy with adjunctive balloon angioplasty. Núñez BD, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:40-9

Technique and strategy of rotational atherectomy. Reisman M. **Cathet Cardiovasc Diagn** 1996;Suppl 3:2-14 (41 ref.)

Primary DCA for MI: an exception to the "bigger is better" hypothesis? [editorial; comment] Rodriguez S, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):166-7. Comment on: Cathet Cardiovasc Diagn 1996 Oct;39(2):157-65.

Short- and long-term clinical effects of primary directional coronary atherectomy for acute myocardial infarction [see comments] Saito S, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):157-65. Comment in: Cathet Cardiovasc Diagn 1996 Oct;39(2):166-7.

"Remedies" for in-stent restenosis [editorial; comment] Satler LF. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):320-1. Comment on: Cathet Cardiovasc Diagn 1996 Mar;37(3):317-9.

Rotational atherectomy for treatment of in-stent restenosis: role of intracoronary ultrasound guidance. Stone GW. **Cathet Cardiovasc Diagn** 1996;Suppl 3:73-7

Significance of mild transient release of creatine kinase-MB fraction after percutaneous coronary interventions. Abdelmeguid AE, et al. **Circulation** 1996 Oct 1; 94(7):1528-36

Effect of Rotablator atherectomy and adjunctive balloon angioplasty on coronary blood flow. Bowers TR, et al. **Circulation** 1997 Mar 4;95(5):1157-64

Coronary stenting after rotational atherectomy in calcified and complex lesions. Angiographic and clinical follow-up results. Moussa I, et al. **Circulation** 1997 Jul 1;96(1):128-36

Directional coronary atherectomy for coronary artery spasm refractory to medical therapy. Hilton TC, et al. **Clin Cardiol** 1996 Aug;19(8):662-4

Current approaches to coronary intervention. King SB 3rd. **Compr Ther** 1996 Nov;22(11):731-6 (24 ref.)

Coronary revascularization in the elderly: Florida multicenter consecutive case experience with coronary revascularization in patients age 75 years and older. The Program Committee Florida Chapter American College of Cardiology. Safford RE. **Compr Ther** 1996 Aug; 22(8):477-84

Lessons from the CAVEAT: will the BOAT answer the questions? Coronary Atherectomy Versus Excisional Atherectomy Trial. Balloon Angioplasty Versus Optimal Atherectomy Trial. Hinohara T, et al. **Coron Artery Dis** 1996 Apr;7(4):282-9

Effect of rotational atherectomy in noncalcified atherosclerotic plaque: a volumetric intravascular ultrasound study. Dussaillant GR, et al. **J Am Coll Cardiol** 1996 Oct;28(4):856-60

Ticlopidine and aspirin pretreatment reduces coagulation and platelet activation during coronary dilation procedures. Gregorini L, et al. **J Am Coll Cardiol** 1997 Jan;29(1):13-20

Comparison of early and recent results with rotational atherectomy. Reisman M, et al. **J Am Coll Cardiol** 1997 Feb;29(2):353-7

Interventional cardiology: present and future. Chambers CE, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):211-9 (91 ref.)

[Predictive factors of coronary restenosis after optimal directional atherectomy. A multivariate analysis apropos of 102 patients] Coste P, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):225-31 (30 ref.) (Eng. Abstr.) **(Fre)**

[Histological findings of specimens obtained by directional coronary atherectomy from patients with acute myocardial infarction] Kurisu S, et al. **J Cardiol** 1997 Mar;29(3):141-8

(Eng. Abstr.) **(Jpn)**

[Directional coronary atherectomy after unsuccessful angioplasty] Villavicencio R, et al. **Arch Inst Cardiol Mex** 1996 Sep–Oct;66(5):406–14 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Incidence, predictors, and consequences of coronary dissection following high-speed rotational atherectomy. Brown DL, et al. **Am J Cardiol** 1996 Dec 15;78(12):1416–9

The alpha-1 adrenergic blocking agent urapidil counteracts postrotational atherectomy "elastic recoil" where nitrates have failed. Gregorini L, et al. **Am J Cardiol** 1997 Apr 15;79(8):1100–3

Risk factors for the development of slow flow during rotational coronary atherectomy. Sharma SK, et al. **Am J Cardiol** 1997 Jul 15;80(2):219–22

Bail-out stenting for flow limiting dissections after rotational atherectomy in complex coronary lesions [see comments] Levin TN, et al. **Cathet Cardiovasc Diagn** 1996 Mar; 37(3):300–4. Comment in: Cathet Cardiovasc Diagn 1996 Mar;37(3):305–6.

Reduced distal embolization with transluminal extraction atherectomy compared to balloon angioplasty for saphenous vein graft disease. Misumi K, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):246–51

Stents following rotablator for flow limiting dissections: device synergy or dys-synergy [editorial; comment] Tommaso CL. **Cathet Cardiovasc Diagn** 1996 Mar; 37(3):305–6. Comment on: Cathet Cardiovasc Diagn 1996 Mar;37(3):300–4.

Mechanisms of luminal enlargement and quantification of vessel wall trauma following balloon coronary angioplasty and directional atherectomy. Baptista J, et al. **Eur Heart J** 1995 Nov;16(11):1603–12

An overview of the results of the EPIC trial. Califf RM, et al. **Eur Heart J** 1995 Nov;16 Suppl L:43–9

Intravascular ultrasound: a guide for management of complications during intervention? Görge G, et al. **Eur Heart J** 1995 Nov;16 Suppl L:86–92 (57 ref.)

Vascular complications of coronary interventions. Davis C, et al. **Heart Lung** 1997 Mar–Apr;26(2):118–27 (21 ref.)

Fatal coronary embolization following high-speed rotational atherectomy. Duong van Huyen JP, et al. **Histopathology** 1996 Jul;29(1):73–6

Aortic dissection during directional coronary atherectomy. Ohmoto Y, et al. **Int J Cardiol** 1996 Aug;55(3):289–91

Troponin T, creatine kinase MB mass, and creatine kinase MB isoform ratio in the detection of myocardial damage during non-surgical coronary revascularization. Reimers B, et al. **Int J Cardiol** 1997 Jun 27;60(1):7–13

Increased risk of non-Q wave myocardial infarction after directional atherectomy is platelet dependent: evidence from the EPIC trial. Evaluation of c7E3 for the Prevention of Ischemic Complications. Lefkovits J, et al. **J Am Coll Cardiol** 1996 Oct;28(4):849–55

Prevalence and timing of regional myocardial dysfunction after rotational coronary atherectomy. Williams MJ, et al. **J Am Coll Cardiol** 1996 Oct;28(4):861–9

Coagulation activation in patients undergoing directional coronary atherectomy. Lins M, et al. **Thromb Res** 1997 Jun 15;86(6):433–41

[A case of coronary perforation after directional coronary atherectomy] Baba H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2151–4 (Eng. Abstr.) **(Jpn)**

[Coronary artery perforation with rotational coronary atherectomy] Moreira AE, et al. **Arq Bras Cardiol** 1996 Jun;66(6):357–60 (Eng. Abstr.) **(Por)**

INSTRUMENTATION

Directional atherectomy, rotational atherectomy and coronary stent, followed by coronary bypass operation in a patient with the aggressive restenotic process. Cigarroa JE, et al. **Acta Cardiol** 1995;50(6):469–75

A case of favorable dilation of protected left main coronary artery lesion achieved through performance of adjunctive DCA on residual stenosis following use of rotablator. Taniguchi M, et al. **Angiology** 1997 Jun;48(6):529–34

Clinical and vascular laboratory determinants for outcome after infrainguinal atherectomy. Myers KA, et al. **Cardiovasc Surg** 1996 Aug;4(4):449–55

Pullback atherectomy for the treatment of intrastent restenosis [letter; comment] Chow WH, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):94–5. Comment on: Cathet Cardiovasc Diagn 1996 Dec;39(4):377–82.

Pullback atherectomy (PAC) for the treatment of complex bifurcation coronary artery disease. Fischell TA, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):218–21

Guidewire bias: potential source of complications with rotational atherectomy. Reisman M, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:64–8

The "furrowing effect": guidewire-induced "directional" lesion ablation in rotational atherectomy of angulated coronary artery lesions. Stuver TP, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):385–95 (8 ref.)

Pullback atherectomy with the Arrow-Fischell atherectomy device. Webb J, et al. **Cathet Cardiovasc Diagn** 1997 Sep; 42(1):79–83

[Alternatives to balloon angioplasty. Radio frequency angioplasty, directional coronary atherectomy, high frequency rational angioplasty and coronary extraction atherectomy] Hombach V, et al. **Internist (Berl)** 1997 Jan; 38(1):11–9 (41 ref.) **(Ger)**

[New studies, new trends: directional coronary atherectomy] Haberbosch W, et al. **Z Kardiol** 1997 May;86(5):320–6 (35 ref.) (Eng. Abstr.) **(Ger)**

[High frequency rotational angioplasty] Haude M, et al. **Z Kardiol** 1996;85 Suppl 1:17–23 (41 ref.) (Eng. Abstr.) **(Ger)**

[Directional coronary atherectomy in coronary dissection?] Höfling B. **Z Kardiol** 1996;85 Suppl 1:59–66 (Eng. Abstr.) **(Ger)**

[Value of rotational ablation in reopening chronic coronary artery occlusion] Jacksch R, et al. **Z Kardiol** 1996;85 Suppl 1:25–31 (Eng. Abstr.) **(Ger)**

METHODS

Optimal burr and adjunctive balloon sizing reduces the need for target artery revascularization after coronary mechanical rotational atherectomy. Kaplan BM, et al. **Am J Cardiol** 1996 Dec 1;78(11):1224–9

Intravascular ultrasound in the setting of directional coronary atherectomy and percutaneous transluminal coronary rotational atherectomy. Timmis SB, et al. **Cardiol Clin** 1997 Feb;15(1):39–48 (63 ref.)

High-speed rotational ablation for in-stent restenosis [see comments] Bottner RK, et al. **Cathet Cardiovasc Diagn** 1997 Feb;40(2):144–9. Comment in: Cathet Cardiovasc Diagn 1997 Feb;40(2):150–1.

Cocktail attenuation of rotational ablation flow effects (CARAFE) study: pilot. Cohen BM, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:69–72

Intravascular ultrasound-guided transluminal extraction atherectomy for restenosis after Gianturco-Roubin coronary stent implantation [see comments] Goods CM, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):317–9. Comment in: Cathet Cardiovasc Diagn 1996 Mar;37(3):320–1.

Forward slide maneuver: a new method of advancing the Rotablator system. Raybuck BD. **Cathet Cardiovasc Diagn** 1996;Suppl 3:60–3

Effects of technique modification on immediate results of high speed rotational atherectomy in 710 procedures on 656 patients [see comments] Stertzer SH, et al. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):304–10. Comment in: Cathet Cardiovasc Diagn 1995 Dec;36(4):311–2.

Extraction atherectomy for the recanalization of totally occluded aortocoronary saphenous vein grafts. Sullebarger JT, et al. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):339–43

Rotablator technique and complications? [editorial; comment] Whitlow PL. **Cathet Cardiovasc Diagn** 1995 Dec; 36(4):311–2. Comment on: Cathet Cardiovasc Diagn 1995 Dec;36(4):304–10.

Randomized comparison of angioplasty of complex coronary lesions at a single center. Excimer Laser, Rotational Atherectomy, and Balloon Angioplasty Comparison (ERBAC) Study. Reifart N, et al. **Circulation** 1997 Jul 1; 96(1):91–8

Coronary artery and saphenous vein graft remodeling: a review of histologic findings after various interventional procedures--Part VI. Waller BF, et al. **Clin Cardiol** 1997 Feb;20(2):153–60 (25 ref.)

Acute results of directional coronary atherectomy in the Balloon Versus Optimal Atherectomy Trial (BOAT) pilot phase. Baim DS, et al. **Coron Artery Dis** 1996 Apr; 7(4):290–3

Intravascular ultrasound, directional coronary atherectomy, and the Optimal Atherectomy Restenosis Study (OARS). Dussaillant GR, et al. **Coron Artery Dis** 1996 Apr; 7(4):294–8 (26 ref.)

Directional coronary atherectomy: development and early experience. Whitlow PL. **Coron Artery Dis** 1996 Apr; 7(4):275–81 (29 ref.)

Ultrasound-guided atherectomy: the vision for the future? Yock PG, et al. **Coron Artery Dis** 1996 Apr;7(4):299–303 (16 ref.)

Transluminal extraction atherectomy for stent restenosis in a saphenous vein bypass graft [letter] Virk SJ, et al. **Eur Heart J** 1997 Feb;18(2):350–1

High speed rotablation to treat instent restenosis in both branches of a coronary bifurcation stenosis. Gambhir DS, et al. **Indian Heart J** 1997 May-Jun;49(3):311–2

Procedural outcome and follow-up results of balloon angioplasty versus new device interventions for treatment of true bifurcation stenoses. Gambhir DS, et al. **Indian Heart J** 1996 Jul-Aug;48(4):389–94, 430

Transluminal extraction catheter atherectomy followed by immediate stenting in treatment of saphenous vein grafts. Braden GA, et al. **J Am Coll Cardiol** 1997 Sep;30(3):657–63

[Efficacy and limitation of directional coronary atherectomy for acute myocardial infarction assessed by depth of tissue resection] Kurisu S, et al. **J Cardiol** 1996 Sep;28(3):131–6 (Eng. Abstr.) **(Jpn)**

[Usefulness of directional coronary atherectomy as a bail-out device for acute closure after coronary angioplasty] Nishio R, et al. **J Cardiol** 1997 Jun;29(6):325–30 (Eng. Abstr.) **(Jpn)**

NURSING

Understanding coronary atherectomy. Hayes DD. **Am J Nurs** 1996 Dec;96(12):38–44; quiz 45 (8 ref.)

REHABILITATION

Flying status and coronary revascularization procedures in military aviators. Khan MA, et al. **Aviat Space Environ Med** 1996 Feb;67(2):165–70 (32 ref.)

UTILIZATION

The changing face of coronary interventional practice. The Mayo Clinic experience. Hasdai D, et al. **Arch Intern Med** 1997 Mar 24;157(6):677–82

[Quality assurance in invasive and interventional cardiology in Austria in 1994. Commissioned by the Interventional Cardiology Working Group of the Austrian Cardiology Society] Mühlberger V, et al. **Z Kardiol** 1996 Sep; 85(9):647–55 (Eng. Abstr.) **(Ger)**

ATHEROEMBOLISM see **EMBOLISM, CHOLESTEROL**

ATHEROMA see **ATHEROSCLEROSIS**

ATHEROSCLEROSIS

see related
ATHERECTOMY
EMBOLISM, CHOLESTEROL

Atherosclerosis vascular damage in elderly athletes and sedentary people. Galetta F, et al. **Angiology** 1997 Jul; 48(7):623–8

Atheromatous disease of the thoracic aorta: pathologic and clinical implications. Kronzon I, et al. **Ann Intern Med** 1997 Apr 15;126(8):629–37 (41 ref.)

Human lesion studies. Fuster V. **Ann N Y Acad Sci** 1997 Apr 15;811:207–24; discussion 224–5 (44 ref.)

Transgenic rabbit models for the study of atherosclerosis. Taylor JM. **Ann N Y Acad Sci** 1997 Apr 15;811:146–52; discussion 152–4 (23 ref.)

Endothelial cell injury in cardiovascular surgery: atherosclerosis. Boyle EM Jr, et al. **Ann Thorac Surg** 1997 Mar;63(3):885–94 (81 ref.)

Young women with advanced aortoiliac occlusive disease: new insights. Gagne PJ, et al. **Ann Vasc Surg** 1996 Nov; 10(6):546–57

10th National Congress of the Italian Society for the Study of Atherosclerosis. Rome, Italy, 2–3 December 1996. Abstracts. **Atherosclerosis** 1997 Sep;133(2):265–80

Proceedings of the 64th European Atherosclerosis Society Congress. Utrecht, 10–13 June 1995. **Atherosclerosis** 1995 Dec;118 Suppl:S1–149

Atherosclerosis and pentoxifylline. Proceedings of an international symposium. Prague, 10–12 October 1996. **Atherosclerosis** 1997 Jun;131 Suppl:S1–41

68th Meeting of the European Atherosclerosis Society. Molecular Cell Biology and Atherogenesis. Brugge, Belgium, 7–10 May 1997. Abstracts. **Atherosclerosis** 1997 May;130 Suppl:S1–40

Stress proteins and atherosclerosis. Roma P, et al. **Atherosclerosis** 1996 Dec 20;127(2):147–54 (97 ref.)

Calcium, calcium antagonists and experimental atherosclerosis. Paoletti R, et al. **Blood Press Suppl** 1996; 4:12–5 (35 ref.)

Atherosclerotic popliteal aneurysm. Dawson I, et al. **Br J Surg** 1997 Mar;84(3):293–9 (82 ref.)

A lipid clinic associated with a research laboratory working on dyslipoproteinemias and atherosclerosis. Davignon J. **Can J Cardiol** 1996 Oct;12(10):885–90

Pathophysiology of plaque rupture and the concept of plaque stabilization. Shah PK. **Cardiol Clin** 1996 Feb;14(1):17–29 (137 ref.)

Endothelial adhesion molecules in atherogenesis. A concerto or a solo? [editorial; comment] Vadas MA, et al. **Circ Res** 1996 Dec;79(6):1216–7. Comment on: Circ Res 1996 Dec;79(6):1205–15.

22nd Annual scientific meeting of the Australian Atherosclerosis Society. Perth, Western Australia, 9–12 October 1996. Proceedings and abstracts. **Clin Exp Pharmacol Physiol** 1997 May;24(5):A21–52

Scavenger receptors in atherosclerosis. Freeman MW. **Curr Opin Hematol** 1997 Jan;4(1):41–7 (52 ref.)

Atherosclerosis: cell biology and lipoproteins. **Curr Opin Lipidol** 1996 Oct;7(5):B57–77

Atherosclerosis: cell biology and lipoproteins. Brown AJ. **Curr Opin Lipidol** 1996 Oct;7(5):U162–7

Atherosclerosis: cell biology and lipoproteins. Heinecke JW. **Curr Opin Lipidol** 1996 Aug;7(4):U131–6

Atherosclerosis: cell biology and lipoproteins [editorial] Tabas I. **Curr Opin Lipidol** 1997 Apr;8(2):U25–7 (16 ref.)

Potential role of an endothelium-specific growth factor, hepatocyte growth factor, on endothelial damage in diabetes. Morishita R, et al. **Diabetes** 1997 Jan;46(1):138–42

Oxygen toxicity, free radicals and antioxidants in human disease: biochemical implications in atherosclerosis and the problems of premature neonates. Rice-Evans CA, et al. **Essays Biochem** 1995;29:39–63 (25 ref.)

Lipid peroxidation and ceroid accumulation in macrophages cultured with oxidized low density lipoprotein. Shimasaki H, et al. **Gerontology** 1995;41 Suppl 2:39–51

Atherosclerosis in the human brachial artery. Sorensen KE, et al. **J Am Coll Cardiol** 1997 Feb;29(2):318–22

Spouse concordance of obesity, blood pressures and serum risk factors for atherosclerosis. Inoue K, et al. **J Hum Hypertens** 1996 Jul;10(7):455–9

Clinical analysis of abdominal aortic aneurysms associated

with iliofemoral occlusive disease. Sugawara Y, et al. **Jpn Circ J** 1997 Jan;61(1):14–8

Antioxidants, dietary fat saturation, lipoprotein oxidation and atherogenesis [editorial] Schwenke DC. **Nutrition** 1996 May;12(5):377–9

Does the association of risk factors and atherosclerosis change with age? An analysis of the combined ARIC and CHS cohorts. The Atherosclerosis Risk in Communities (ARIC) and Cardiovascular Health Study (CHS) investigators. Howard G, et al. **Stroke** 1997 Sep; 28(9):1693–701

Is chronic rejection of liver transplants different from graft arteriosclerosis of kidney and heart transplants? Neil DA, et al. **Transplant Proc** 1997 Sep;29(6):2539–40

Knockout models of chronic cardiac rejection and graft arteriosclerosis: intimal thickening develops independent of Th1 and Th2 cytokines. Russell ME, et al. **Transplant Proc** 1997 Sep;29(6):2531–2

Graft atherosclerosis and chronic rejection in the kidney. Solez K. **Transplant Proc** 1997 Sep;29(6):2541

[Review and prospect of making blood–stasis animal model] Zhang WH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):184–6 (26 ref.) **(Chi)**

[Aortic atherosclerosis, aortic atheroma] Fukui R, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):378–82 (18 ref.) **(Jpn)**

[Non–atherosclerotic acute myocardial infarction] Goto Y. **Ryoikibetsu Shokogun Shirizu** 1996;(12):753–7 (16 ref.) **(Jpn)**

[Spontaneous perforation of the atherosclerotic aorta] Origuchi N, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (14):399–402 (22 ref.) **(Jpn)**

[Nonatherosclerotic coronary artery disease] Toyofuku M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):762–5 (20 ref.) **(Jpn)**

[Atherosclerosis: a dynamic disease of the arterial intima with a chronic evolution in a predictable phase and an unpredictable phase] Vaquero M. **Med Clin (Barc)** 1997 Jul 5;109(6):229–35 (59 ref.) **(Spa)**

BLOOD

Tryptophan and atherosclerosis. Baldo–Enzi G, et al. **Adv Exp Med Biol** 1996;398:429–32

Relationships among oxidation of low–density lipoprotein, antioxidant protection, and atherosclerosis. Esterbauer H, et al. **Adv Pharmacol** 1997;38:425–56 (150 ref.)

Changes in plasma lipids and lipoproteins associated with starting or stopping postmenopausal hormone replacement therapy. Atherosclerosis Risk in Communities Study. Folsom AR, et al. **Am Heart J** 1996 Nov;132(5):952–8

Correlation between plasma homocyst(e)ine and aortic atherosclerosis. Konecky N, et al. **Am Heart J** 1997 May; 133(5):534–40

Putting low–density lipoproteins at center stage in atherogenesis. Sniderman AD, et al. **Am J Cardiol** 1997 Jan 1;79(1):64–7

Plasma thrombomodulin in atherosclerosis and its risk factors [letter; comment] Lip GY, et al. **Am J Med** 1997 Apr; 102(4):423–5. Comment on: Am J Med 1996 Aug;101(2):160–4.

Aortoiliac occlusion associated with the lupus anticoagulant. Report of two cases. Setoguchi M, et al. **Angiology** 1997 Apr;48(4):359–64

Relationship between lipoprotein (a) and both stroke and carotid atheroma. Markus HS, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):360–5

Correlates of uric acid and its association with asymptomatic carotid atherosclerosis: the ARIC Study. Atherosclerosis Risk in Communities. Iribarren C, et al. **Ann Epidemiol** 1996 Jul;6(4):331–40

Glycated lipoprotein and atherosclerosis. Numano F, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:100–13; discussion 113–4

Effects of malnutrition and atherosclerosis on the fatty acid composition of plasma phospholipids in the elderly. Bamberg T, et al. **Ann Nutr Metab** 1997;41(3):166–72

Fasting total plasma homocysteine and atherosclerotic peripheral vascular disease. Cheng SW, et al. **Ann Vasc Surg** 1997 May;11(3):217–23

Project meeting report: atherosclerosis & omega 3 fatty acids in Arctic Natives. Boudreau DA, et al. **Arctic Med Res** 1996 Jan;55(1):27–31

Role of leukocyte–specific LDL receptors on plasma lipoprotein cholesterol and atherosclerosis in mice. Boisvert WA, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):340–7

Circulating vascular cell adhesion molecule–1 correlates with the extent of human atherosclerosis in contrast to circulating intercellular adhesion molecule–1, E–selectin, P–selectin, and thrombomodulin. Peter K, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):505–12

Relation of C4b–binding protein to athero–sclerosis of the descending thoracic aorta. Kimoto K, et al. **Artery** 1996; 22(2):101–14

Soluble L–selectin in peripheral arterial disease: relationship with soluble E–selectin and soluble P–selectin. Blann A, et al. **Atherosclerosis** 1996 Oct 25;126(2):227–31

Leukocyte activation in atherosclerosis: correlation with risk factors. Elneihoum AM, et al. **Atherosclerosis** 1997 May; 131(1):79–84

Does an acidic pH explain why low density lipoprotein is oxidised in atherosclerotic lesions? Leake DS. **Atherosclerosis** 1997 Mar 21;129(2):149–57 (100 ref.)

Women have a larger and less atherogenic low density lipoprotein particle size than men. Nikkilä M, et al. **Atherosclerosis** 1996 Jan 26;119(2):181–90

Intermediate density lipoprotein cholesterol as the best lipoprotein predictor of atherosclerosis severity in the Watanabe Heritable Hyperlipidemic rabbit [letter] Nordestgaard BG, et al. **Atherosclerosis** 1997 Jul 11; 132(1):119–22

Increased oxidation resistance of atherogenic plasma lipoproteins at high vitamin E levels in non–vitamin E supplemented men. Porkkala–Sarataho E, et al. **Atherosclerosis** 1996 Jul;124(1):83–94

Atherogenic lipoprotein changes in the absence of hyperlipidemia in patients with chronic renal failure treated by hemodialysis. Shoji T, et al. **Atherosclerosis** 1997 Jun; 131(2):229–36

Lipoprotein(a) and peripheral atherosclerosis in older adults. Sutton–Tyrrell K, et al. **Atherosclerosis** 1996 Apr 26; 122(1):11–9

Processes in atherogenesis: complement activation. Torzewski J, et al. **Atherosclerosis** 1997 Jul 25;132(2):131–8 (77 ref.)

LDL receptor–independent and –dependent uptake of lipoproteins. van Berkel TJ, et al. **Atherosclerosis** 1995 Dec; 118 Suppl:S43–50 (59 ref.)

Should patients with atherosclerosis or peripheral vascular disease be stratified for factor V Leiden? [letter] Irvine CD, et al. **Blood** 1997 Sep 1;90(5):2114

Haemostatic factors, atherosclerosis and risk of abdominal aortic aneurysm. Lee AJ, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):695–701

Activated protein C resistance, factor V Leiden and peripheral vascular disease. Foley PW, et al. **Cardiovasc Surg** 1997 Apr;5(2):157–60

Effect of supplementary antioxidant vitamin intake on carotid arterial wall intima–media thickness in a controlled clinical trial of cholesterol lowering. Azen SP, et al. **Circulation** 1996 Nov 15;94(10):2369–72

Lipoprotein lipase variants D9N and N291S are associated with increased plasma triglyceride and lower high–density lipoprotein cholesterol concentrations: studies in the fasting and postprandial states: the European Atherosclerosis Research Studies. Gerdes C, et al. **Circulation** 1997 Aug 5;96(3):733–40

Intermediate–density lipoproteins and progression of carotid arterial wall intima–media thickness. Hodis HN, et al. **Circulation** 1997 Apr 15;95(8):2022–6

Low–density lipoprotein composition and oxidability in atherosclerotic cardiovascular disease. Schreier LE, et al. **Clin Biochem** 1996 Oct;29(5):479–87

Changes in serum apolipoprotein and lipoprotein profile induced by chronic alcohol consumption and withdrawal: determinant effect on heart disease? Lecomte E, et al. **Clin Chem** 1996 Oct;42(10):1666–75

Automated measurement of mouse apolipoprotein B: convenient screening tool for mouse models of atherosclerosis. Levine DM, et al. **Clin Chem** 1997 Apr; 43(4):669–74

The effects of low–density lipoprotein and high–density lipoprotein on blood viscosity correlate with their association with risk of atherosclerosis in humans. Sloop GD, et al. **Clin Sci (Colch)** 1997 May;92(5):473–9

LDL subfractions and atherogenicity: an hypothesis from the University of Glasgow. Packard CJ. **Curr Med Res Opin** 1996;13(7):379–90

Homocyst(e)ine: an important risk factor for atherosclerotic vascular disease. Duell PB, et al. **Curr Opin Lipidol** 1997 Feb;8(1):28–34 (86 ref.)

Atherosclerosis: cell biology and lipoproteins [editorial] Williams KJ. **Curr Opin Lipidol** 1996 Dec;7(6):U202–8 (26 ref.)

Lipoprotein(a) and atherosclerotic disease in insulin–dependent diabetic patients with declining glomerular filtration rate [letter] Earle KA, et al. **Diabet Med** 1996 Dec;13(12):1071–2

Whither lipoprotein(a): is this lipid subclass a causative or predictive factor in diabetic macrovascular disease? [editorial; comment] Fineberg SE. **Diabetes Care** 1997 Aug; 20(8):1225–7. Comment on: Diabetes Care 1997 Aug;20(8):1242–7.

Carotid atherosclerosis and serum lipoprotein(a) concentrations in patients with NIDDM. Yamamoto M, et al. **Diabetes Care** 1997 May;20(5):829–31

Relationship between fasting insulin and cardiovascular risk factors is already present in young men: the Verona Young Men Atherosclerosis Risk Factors Study. Bonora E, et al. **Eur J Clin Invest** 1997 Mar;27(3):248–54

Lipoprotein (a) and its relationship to risk factors and severity of atherosclerotic peripheral vascular disease. Cheng SW, et al. **Eur J Vasc Endovasc Surg** 1997 Jul;14(1):17–23

Genes, greens, and homocysteine [editorial] Meleady RA, et al. **Heart** 1996 Aug;76(2):103–4

Increased platelet and coagulatory activity in peripheral atherosclerosis flow mediated platelet function is a sensitive and specific disease indicator. Reininger CB, et al. **Int Angiol** 1996 Dec;15(4):335–43

Association between serum sialic acid concentration and carotid atherosclerosis measured by B–mode ultrasound. The ARIC Investigators. Atherosclerosis Risk in Communities Study. Råstam L, et al. **Int J Epidemiol** 1996 Oct;25(5):953–8

Endogenously elicited antibodies to platelet derived growth factor–BB and platelet cytosolic protein inhibit aortic lesion development in the cholesterol–fed rabbit. Rutherford C, et al. **Int J Exp Pathol** 1997 Feb;78(1):21–32

Relationship of uric acid concentration to cardiovascular risk factors in young men. Role of obesity and central fat distribution. The Verona Young Men Atherosclerosis Risk Factors Study. Bonora E, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):975–80

Atherogenesis and the homocysteine–folate–cobalamin triad: do we need standardized analyses? Flynn MA, et al. **J Am Coll Nutr** 1997 Jun;16(3):258–67

Contribution of Lp(a) to the occurrence of vascular diseases: correlation of several risk factors including diabetes mellitus. Kubo M, et al. **J Atheroscler Thromb** 1995;2 Suppl 1:S22–5

Serum sialic acid concentration and atherosclerotic risk factors. Wakabayashi I, et al. **J Atheroscler Thromb** 1994; 1(2):113–7

Angiotensin converting enzyme gene polymorphism and carotid atherosclerosis in a low–risk population. Dessi–Fulgheri P, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1593–6

Plasma homocysteine as a risk factor for vascular disease. The European Concerted Action Project. Graham IM, et al. **JAMA** 1997 Jun 11;277(22):1775–81

In situ localization of tissue factor in human atherosclerotic plaques by binding of digoxigenin–labeled factors VIIa and X [published erratum appears in Lab Invest 1997 Feb;76(2):297–9] Thiruvikraman SV, et al. **Lab Invest** 1996 Oct;75(4):451–61

High plasma HDL concentrations associated with enhanced atherosclerosis in transgenic mice overexpressing lecithin–cholesteryl acyltransferase. Bérard AM, et al. **Nat Med** 1997 Jul;3(7):744–9

The cholesterol century [editorial; comment] Erkelens DW. **Neth J Med** 1997 Jul;51(1):v–vii (15 ref.). Comment on: Neth J Med 1997 Jul;51(1):1–9. Comment on: Neth J Med 1997 Jul;51(1):10–5. Comment on: Neth J Med 1997 Jul;51(1):16–27.

Lipoprotein[a]: a predictor of atherosclerotic disease. Harris ED. **Nutr Rev** 1997 Mar;55(3):61–4 (23 ref.)

Lipoprotein subfraction concentrations in preeclampsia: pathogenic parallels to atherosclerosis. Sattar N, et al. **Obstet Gynecol** 1997 Mar;89(3):403–8

Actions of heparin in the atherosclerotic process. Engelberg H. **Pharmacol Rev** 1996 Jun;48(2):327–52 (464 ref.)

Thrombin receptor antagonists. Seiler SM. **Semin Thromb Hemost** 1996;22(3):223–32 (118 ref.)

Markers of platelet activation and oxidant stress in atherothrombotic disease. FitzGerald GA, et al. **Thromb Haemost** 1997 Jul;78(1):280–4 (68 ref.)

Leucocyte rheological properties are altered in patients with diffuse atherosclerosis. Galante A, et al. **Thromb Haemost** 1997 Jun;77(6):1073–6

The VITA Project: population–based distributions of protein C, antithrombin III, heparin–cofactor II and plasminogen––relationship with physiological variables and establishment of reference ranges. Rodeghiero F, et al. **Thromb Haemost** 1996 Aug;76(2):226–33

Effect of isradipine on in–vivo platelet function. O'Grady J, et al. **Thromb Res** 1997 Jun 1;86(5):363–71

A global view on the role of monocytes and platelets in atherogenesis. Osterud B. **Thromb Res** 1997 Jan 1; 85(1):1–22 (116 ref.)

Passive smoking, platelet function and atherosclerosis. Kritz H, et al. **Wien Klin Wochenschr** 1996;108(18):582–8 (50 ref.)

Genetic, metabolic, and dietary influences on the atherogenic lipoprotein phenotype. Krauss RM. **World Rev Nutr Diet** 1997;80:22–43 (110 ref.)

[Single passive smoking exposure induces no measurable oxidation of low density lipoproteins] Oguogho A, et al. **Wien Klin Wochenschr** 1996;108(18):589–92 (Eng. Abstr.) **(Ger)**

[Fibrinolysis and vascular diseases] Udvardy M, et al. **Orv Hetil** 1996 Aug 25;137(34):1851–5 (45 ref.) (Eng. Abstr.) **(Hun)**

[Hyperhomocysteinemia and vascular disease] Zampolli A, et al. **G Ital Cardiol** 1996 Jul;26(7):821–37 (81 ref.) (Eng. Abstr.) **(Ita)**

[Lipoprotein (a) and plasminogen in atherosclerosis] Danese C, et al. **Minerva Cardioangiol** 1996 Nov;44(11):529–33 (Eng. Abstr.) **(Ita)**

[Lipoprotein(a). Its importance as an additional atherosclerosis marker] Campos E. **Acta Med Port** 1997 Jan;10(1):87–93 (67 ref.) (Eng. Abstr.) **(Por)**

[Comparison between HDL and LDL cholesterol as risk factors for carotid atherosclerosis] Gagliardi RJ, et al. **Arq Neuropsiquiatr** 1995 Dec;53(4):730–6 (Eng. Abstr.) **(Por)**

CHEMICALLY INDUCED

Effects of contraceptive estrogen and progestin on the atherogenic potential of plasma LDLs in cynomolgus monkeys. Manning JM, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1216–23

Hypothesis: UK consumption of dietary lipid hydroperoxides––a possible contributory factor to atherosclerosis [letter] Wolff SP, et al. **Atherosclerosis** 1996 Jan 26;119(2):261–3

Cholesterol reduction in cyclosporine–treated renal

transplant patients: effect on platelet-derived growth factor levels and platelet activation. Rigatto O, et al. **Transplant Proc** 1997 Sep;29(6):2591-2

CLASSIFICATION

The application of an artificial neural network to Doppler ultrasound waveforms for the classification of arterial disease. Smith JH, et al. **Int J Clin Monit Comput** 1996 May;13(2):85-91

COMPLICATIONS

Splenic infarction: report of three cases of atherosclerotic embolization originating in the aorta and retrospective study of 64 cases. Frippiat F, et al. **Acta Clin Belg** 1996; 51(6):395-402

Spontaneous rupture of thoracic aorta through an atheromatous plaque: case report and literature review. Ma TK, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):38-42 (15 ref.)

Lower extremity arterial occlusions in young patients with Crohn's colitis and premature atherosclerosis: report of six cases. Levy PJ, et al. **Am J Gastroenterol** 1997 Mar; 92(3):494-7

Detection of preclinical atherosclerosis may optimize the management of hypertension. Simon A, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):813-24 (95 ref.)

A prospective study of disease progression in patients with atherosclerotic renal artery stenosis. Zierler RE, et al. **Am J Hypertens** 1996 Nov;9(11):1055-61

Atherosclerotic ischemic renal disease. Greco BA, et al. **Am J Kidney Dis** 1997 Feb;29(2):167-87 (144 ref.)

Atherosclerotic vascular complications in diabetic transplant candidates. Manske CL, et al. **Am J Kidney Dis** 1997 Apr; 29(4):601-7

Pathobiochemistry of combined diabetes and atherosclerosis studied on a novel animal model. The hyperlipemic-hyperglycemic hamster. Simionescu M, et al. **Am J Pathol** 1996 Mar;148(3):997-1014

Abdominal aortic aneurysm screening in elderly males with atherosclerosis: the value of physical exam. Arnell TD, et al. **Am Surg** 1996 Oct;62(10):861-4

Aortic atheroma is related to outcome but not numbers of emboli during coronary bypass. Barbut D, et al. **Ann Thorac Surg** 1997 Aug;64(2):454-9

Serotonin-induced constriction of ocular arteries in atherosclerotic monkeys. Implications for ischemic disorders of the retina and optic nerve head. Hayreh SS, et al. **Arch Ophthalmol** 1997 Feb;115(2):220-8

Ischemic heart disease in chronic uremia. Parfrey PS, et al. **Blood Purif** 1996;14(4):321-6 (32 ref.)

Atherosclerotic renovascular disease as a cause of end-stage renal disease: cost considerations. Textor SC. **Blood Purif** 1996;14(4):305-14

Tissue factor modulates the thrombogenicity of human atherosclerotic plaques. Toschi V, et al. **Circulation** 1997 Feb 4;95(3):594-9

Urinary albumin excretion and atherosclerosis in essential hypertension. Pedrinelli R, et al. **Clin Sci (Colch)** 1997 Jan; 92(1):45-50

New thoughts and unsolved problems in atheromatous renovascular disease. Missouris CG, et al. **Contrib Nephrol** 1996;119:39-44 (11 ref.)

Cholesterol is the major atherogenic lipid in NIDDM. Betteridge D. **Diabetes Metab Rev** 1997 Jun;13(2):99-104 (29 ref.)

Triglyceride is the major atherogenic lipid in NIDDM. Taskinen MR. **Diabetes Metab Rev** 1997 Jun;13(2):93-8 (31 ref.)

What is the effect of hyperglycemia on atherogenesis and can it be reversed by aminoguanidine? Bucala R. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:123-30 (42 ref.)

Patients with diabetes mellitus and atherosclerosis; a role for cytomegalovirus? Visseren FL, et al. **Diabetes Res Clin Pract** 1997 Apr;36(1):49-55

No relation between excess fatigue and asymptomatic carotid atherosclerosis. McGovern PG, et al. **Epidemiology** 1996 Nov;7(6):638-40

Acute coronary thrombosis--the role of plaque disruption and its initiation and prevention. Davies MJ. **Eur Heart J** 1995 Nov;16 Suppl L:3-7 (31 ref.)

Atherosclerosis, aortic stenosis and sudden onset central diabetes insipidus. Hensen J, et al. **Exp Clin Endocrinol Diabetes** 1997;105(4):227-33

Increased blood plasminogen activator inhibitor-1 and intercellular adhesion molecule-1 as possible risk factors of atherosclerosis in Werner syndrome. Murano S, et al. **Gerontology** 1997;43 Suppl 1:43-52

Plaque rupture, thrombosis, and therapeutic implications. Fuster V, et al. **Haemostasis** 1996 Oct;26 Suppl 4:269-84 (53 ref.)

Treatment of ulcerated atherosclerotic carotid artery bifurcation stenosis using a self-expanding mesh stent. Joseph G, et al. **Indian Heart J** 1996 Jul-Aug;48(4):412-4

Atherosclerotic abdominal aorta saccular protrusion. Iwai T, et al. **Int Surg** 1996 Apr-Jun;81(2):189-94

Carotid artery disease in patients with retinal artery occlusion. Kimura K, et al. **Intern Med** 1996 Dec; 35(12):937-40

Cholesterol embolization in renal allografts. Bolander JE 2d, et al. **J Am Soc Nephrol** 1996 Jan;7(1):18-22

The extracranial carotid artery in familial hypercholesterolaemia: relationship of intimal-medial thickness and plaque morphology with plasma lipids and coronary heart disease. Sidhu PS, et al. **J Cardiovasc Risk** 1996 Feb;3(1):61-7

Paradoxical enhancement of atherosclerosis by probucol treatment in apolipoprotein E-deficient mice. Zhang SH, et al. **J Clin Invest** 1997 Jun 15;99(12):2858-66

Detection of Chlamydia pneumoniae but not Helicobacter pylori in atherosclerotic plaques of aortic aneurysms. Blasi F, et al. **J Clin Microbiol** 1996 Nov;34(11):2766-9

Limited joint mobility in non-insulin-dependent diabetic (NIDDM) patients: correlation to control of diabetes, atherosclerotic vascular disease, and other diabetic complications. Arkkila PE, et al. **J Diabetes Complications** 1997 Jul-Aug;11(4):208-17

Atherosclerotic risk factors are less intensively treated in patients with peripheral arterial disease than in patients with coronary artery disease. McDermott MM, et al. **J Gen Intern Med** 1997 Apr;12(4):209-15

Atherosclerosis and the kidney. Scoble JE. **J R Coll Physicians Lond** 1997 Jan-Feb;31(1):19-22 (19 ref.)

Renovascular disease: the fifth frontier. Nicholls A. **J R Soc Med** 1997 Jun;90(6):315-8 (43 ref.)

Isolated common iliac artery occlusion secondary to atherosclerotic plaque rupture from blunt abdominal trauma: case report and review of the literature. Tsai FC, et al. **J Trauma** 1997 Jan;42(1):133-6 (18 ref.)

Results of percutaneous transluminal angioplasty for atherosclerotic renal artery stenosis: a follow-up study with duplex ultrasonography. Tullis MJ, et al. **J Vasc Surg** 1997 Jan;25(1):46-54

Inflammatory abdominal aortic aneurysms and atherosclerotic abdominal aortic aneurysms--comparisons of clinical features and long-term results. Sasaki S, et al. **Jpn Circ J** 1997 Mar;61(3):231-5

Atherosclerosis, apolipoprotein E, and prevalence of dementia and Alzheimer's disease in the Rotterdam Study [see comments] Hofman A, et al. **Lancet** 1997 Jan 18; 349(9046):151-4. Comment in: Lancet 1997 Apr 19;349(9059):1174.

Atherosclerosis in SLE and Hughes syndrome [editorial] Vaarala O. **Lupus** 1997;6(6):489-90

Medial elastic structure alterations in atherosclerotic arteries in minipigs: plaque proximity and arterial site specificity. Augier T, et al. **Matrix Biol** 1997 Mar;15(7):455-67

Atherosclerotic disease of the aortic arch as a risk factor for recurrent ischemic stroke [letter; comment] Di Tullio MR, et al. **N Engl J Med** 1996 Nov 7;335(19):1464; discussion 1464-5. Comment on: N Engl J Med 1996 May 9;334(19):1216-21.

Curable hypertensive renal failure due to iliac artery stenosis in a kidney transplant recipient. Gossmann J, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):596-8

Unsuspected atherosclerotic renal artery stenosis causing renal failure in a patient with adult polycystic kidney disease. Makanjuola D, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):591-2

Renal vascular lesions in the elderly: nephrosclerosis or atheromatous renal disease? Meyrier A. **Nephrol Dial Transplant** 1996;11 Suppl 9:45-52 (60 ref.)

Cholesterol atheromatous embolism: an increasingly recognized cause of acute renal failure. Scolari F, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1607-12

Surgical methods for renal revascularization. Fujitani RM, et al. **Semin Vasc Surg** 1996 Sep;9(3):198-217 (58 ref.)

Arterial disease in women: intestinal ischemia. Taylor LM Jr, et al. **Semin Vasc Surg** 1995 Dec;8(4):317-20

Disc degeneration/back pain and calcification of the abdominal aorta. A 25-year follow-up study in Framingham. Kauppila LI, et al. **Spine** 1997 Jul 15; 22(14):1642-7; discussion 1648-9

Proteinuria predicts stroke and other atherosclerotic vascular disease events in nondiabetic and non-insulin-dependent diabetic subjects. Miettinen H, et al. **Stroke** 1996 Nov; 27(11):2033-9

Perforation of acalculous cholecystitis associated with localized atherosclerosis: report of a case. Aihara N, et al. **Surg Today** 1997;27(4):357-9

Amaurosis fugax in the young. [Clinical Conference] Slavin ML. **Surv Ophthalmol** 1997 May-Jun;41(6):481-7

Collagen induced thrombus formation at the apex of eccentric stenoses--a time course study with non-anticoagulated human blood. Barstad RM, et al. **Thromb Haemost** 1996 Apr;75(4):685-92

Platelet anti-aggregating activity and tolerance of clopidogrel in atherosclerotic patients. Boneu B, et al. **Thromb Haemost** 1996 Dec;76(6):939-43

[Cerebrovascular complication caused by aortic atheroma] Malaterre HR, et al. **Ann Med Interne (Paris)** 1996; 147(5):347-51 (40 ref.) (Eng. Abstr.) **(Fre)**

[Penetrating atheromatous ulcer of the thoracic aorta. Apropos of a case] Habis M, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):907-11 (Eng. Abstr.) **(Fre)**

[The aortic arch as an embolism source for cerebral infarcts] Kaps M, et al. **Fortschr Neurol Psychiatr** 1996 Sep; 64(9):367-74 (Eng. Abstr.) **(Ger)**

[Atherosclerosis and nephropathy--calcium antagonists in preventive therapy] **Internist (Berl)** 1994 Jan;35(1 Suppl atherosk):1-8 **(Ger)**

[Sympathetic reflex dystrophy in circumscribed stenosis of the abdominal aorta. Case report and discussion of pathophysiologic principles] Haarmeier T, et al. **Nervenarzt** 1997 Feb;68(2):147-9 (Eng. Abstr.) **(Ger)**

[Erectile dysfunction of arterial origin as possible primary manifestation of atherosclerosis] Lochmann A, et al. **Minerva Cardioangiol** 1996 May;44(5):243-6 (Eng. Abstr.) **(Ita)**

[Surgical treatment of patients with chronic critical ischemia of legs, caused by atherosclerosis] Belov IV, et al. **Khirurgiia (Mosk)** 1997;(2):45-51 (Eng. Abstr.) **(Rus)**

[Arteriopathy of the lower limbs (editorial; comment)] Rodríguez Padial L, et al. **Med Clin (Barc)** 1997 Jun 7; 109(2):53-4. Comment on: Med Clin (Barc) 1997 Jun 7;109(2):41-4. **(Spa)**

DIAGNOSIS

Intrapelvic two-dimensional time-of-flight magnetic resonance angiography in healthy and diseased subjects. Swan JS. **Acad Radiol** 1996 Jul;3(7):607-9; discussion 609-10

Aortic wall sarcoma with tumor emboli and peripheral ischemia: case report with review of literature. Khan A, et al. **Am J Clin Oncol** 1997 Feb;20(1):73-7

Detection of preclinical atherosclerosis may optimize the management of hypertension. Simon A, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):813-24 (95 ref.)

Rupture of the perivisceral aorta: atherosclerotic versus mycotic aneurysm. Quiñones-Baldrich WJ, et al. **Ann Vasc Surg** 1997 Jul;11(4):331-41

Ability of ankle-brachial index to detect lower-extremity atherosclerotic disease progression. McLafferty RB, et al. **Arch Surg** 1997 Aug;132(8):836-40; discussion 840-1

Angioscopy of culprit lesions. Ueda Y, et al. **Cardiologia** 1997 Aug;42(8):827-32 (44 ref.)

An attempt to 3D reconstruct vessel morphology from X-ray projections and intravascular ultrasounds modeling and fusion. Pellot C, et al. **Comput Med Imaging Graph** 1996 May-Jun;20(3):141-51

Development of an intravascular impedance catheter for detection of fatty lesions in arteries. Konings MK, et al. **IEEE Trans Med Imaging** 1997 Aug;16(4):439-46

Atherosclerosis of the carotid artery: evaluation by magnetic resonance angiography. Wildy KS, et al. **J Magn Reson Imaging** 1996 Sep-Oct;6(5):726-32

In vitro targeting of antibody-conjugated echogenic liposomes for site-specific ultrasonic image enhancement. Demos SM, et al. **J Pharm Sci** 1997 Feb;86(2):167-71

Atherosclerotic femoral artery aneurysms: increase in deep femoral aneurysms? Levi N, et al. **Panminerva Med** 1996 Sep;38(3):164-6

Arterial imaging: comparison of high-resolution US and MR imaging with histologic correlation. Martin AJ, et al. **Radiographics** 1997 Jan-Feb;17(1):189-202

Hemodynamically significant atherosclerotic renal artery stenosis: MR angiographic features. Prince MR, et al. **Radiology** 1997 Oct;205(1):128-36

Intravascular MR imaging of atherosclerotic plaque: ex vivo analysis of human femoral arteries with histologic correlation. Zimmermann GG, et al. **Radiology** 1997 Sep; 204(3):769-74

Imaging of atherosclerosis (Part I). Kritz H, et al. **Wien Klin Wochenschr** 1996;108(4):87-97 (110 ref.)

[Early detection of atherosclerosis] Cristol R. **J Mal Vasc** 1996;21(2):98-101 (Eng. Abstr.) **(Fre)**

[Laser-Doppler flowmetry and arterial diseases of the limbs. Correlations with measurement of transcutaneous oxygen pressure] Schmidt C, et al. **J Mal Vasc** 1996;21(5):294-8 (Eng. Abstr.) **(Fre)**

[MR angiography of pelvic arteries] Steffens JC, et al. **Radiologe** 1997 Jul;37(7):566-71 (Eng. Abstr.) **(Ger)**

[Progression and regression of the plaque: comparison of diagnostic methods] Balbarini A, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):273-82 **(Ita)**

[Evaluation of the degree of atherosclerosis by pulse wave velocity (PWV)] Hasegawa M. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:688-90 (8 ref.) **(Jpn)**

[Advances in clinical diagnosis of the atherosclerosis grading] Tsushima M. **Nippon Ronen Igakkai Zasshi** 1996 Oct; 33(10):727-33 (21 ref.) **(Jpn)**

[Subfractionation of serum high density lipoproteins and its clinical significance] Hua F, et al. **Rinsho Byori** 1996 Aug; 44(8):802-6 (Eng. Abstr.) **(Jpn)**

[Risk factors and intervention in cardiovascular diseases in general practice] Svilaas A, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2562-5 (Eng. Abstr.) **(Nor)**

[The diagnosis and treatment of chronic cerebrovascular insufficiency in atherosclerotic stenosis or occlusion of the carotid artery] Zubkov IuN, et al. **Vestn Khir Im I I Grek** 1997;156(3):15-8 (Eng. Abstr.) **(Rus)**

DIET THERAPY

Dietary fish oil. Influence on lesion regression in the porcine model of atherosclerosis. Barbeau ML, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):688-94

Soybean hull and its effect on atherosclerosis in non-human primates (Macaca fascicularis). Piliang WG, et al. **Biomed Environ Sci** 1996 Sep;9(2-3):137-43

[Dietary fats and athero-thrombosis: approach to the knowledge of a balanced lipid diet] Fossati P. **Therapie**

1996 Nov-Dec;51(6):615-21 **(Fre)**

DRUG THERAPY

Reversal of atherosclerosis with therapy: update of coronary angiographic trials. Hodis HN. **Adv Pharmacol** 1996; 35:307-20

Antimitotic actions of vasodilatory prostaglandins--clinical aspects. Sinzinger H, et al. **Agents Actions Suppl** 1997; 48:92-106 (33 ref.)

Study design and baseline characteristics of the study to evaluate carotid ultrasound changes in patients treated with ramipril and vitamin E: SECURE. Lonn EM, et al. **Am J Cardiol** 1996 Oct 15;78(8):914-9

Improved endothelial function with angiotensin-converting enzyme inhibitors. Pepine CJ. **Am J Cardiol** 1997 Mar 6; 79(5A):29-32

Pathogenic mechanisms of atherosclerosis: effect of lipid lowering on the biology of atherosclerosis. Ganz P, et al. **Am J Med** 1996 Oct 8;101(4A):4A10S-16S (87 ref.)

Effects of 17 alpha-dihydroequilenin sulfate on atherosclerotic male and female rhesus monkeys. Washburn SA, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):341-9; discussion 349-51

"Tall oil"-derived phytosterols reduce atherosclerosis in ApoE-deficient mice. Moghadasian MH, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):119-26

Confirmation of efficacy of etofibrate against peripheral atherosclerosis in non-human primates which model human lesion types I-VII. Fincham JE, et al. **Arzneimittelforschung** 1996 May;46(5):519-25

Effects of the new antioxidant nicanartine in an experimental model of atherosclerosis. Heinle H, et al. **Arzneimittelforschung** 1996 Oct;46(10):956-9

The L-arginine-nitric oxide pathway: role in atherosclerosis and therapeutic implications. Böger RH, et al. **Atherosclerosis** 1996 Nov 15;127(1):1-11 (120 ref.)

Anti-atherosclerotic effect of E5324, an inhibitor of acyl-CoA:cholesterol acyltransferase, in Watanabe heritable hyperlipidemic rabbits. Kogushi M, et al. **Atherosclerosis** 1996 Aug 2;124(2):203-10

The effect of isradipine administration on existing fatty streaks in the cholesterol-fed rabbit: a morphometric study. Skepper JN, et al. **Atherosclerosis** 1996 Jan 26;119(2):247-60

Restorative effect of shosaikoto (kampo medicine) on diminution of nitric oxide synthesis in murine peritoneal macrophages induced by hypercholesterolemia. Inoue M, et al. **Biol Pharm Bull** 1996 Nov;19(11):1468-73

Anti-hyperlipidemic and anti-atherosclerotic actions of shosaikoto (kampo medicine). Shen YR, et al. **Biol Pharm Bull** 1996 Sep;19(9):1160-5

Compliance studies in ELSA. European Lacidipine Study of Atherosclerosis. Giannattasio C, et al. **Blood Press Suppl** 1996;4:39-43

Data collection and statistical analyses in ELSA. European Lacidipine Study on Atherosclerosis. Hennig M, et al. **Blood Press Suppl** 1996;4:24-9

Ambulatory blood pressure monitoring in the ELSA study. European Lacidipine Study on Atherosclerosis. Mancia G, et al. **Blood Press Suppl** 1996;4:36-8

Ultrasound protocol and quality control procedures in the European Lacidipine Study on Atherosclerosis (ELSA). Mercuri M, et al. **Blood Press Suppl** 1996;4:20-3

Hypertension, atherosclerosis and microalbuminuria in ELSA. European Lacidipine Study of Atherosclerosis. Ruilope LM, et al. **Blood Press Suppl** 1996;4:48-52 (60 ref.)

Suppression of neointimal thickening by a newly developed HMG-CoA reductase inhibitor, BAYw6228, and its inhibitory effect on vascular smooth muscle cell growth. Igarashi M, et al. **Br J Pharmacol** 1997 Mar;120(6):1172-8

Attenuation of diet-induced atherosclerosis in rabbits with a highly selective 15-lipoxygenase inhibitor lacking significant antioxidant properties. Sendobry SM, et al. **Br J Pharmacol** 1997 Apr;120(7):1199-206

The role of diltiazem in treating hypertension and coronary artery disease: new approaches to preventing first events. Fodor JG, et al. **Can J Cardiol** 1997 May;13(5):495-503 (85 ref.)

Effect of supplementary antioxidant vitamin intake on carotid arterial wall intima-media thickness in a controlled clinical trial of cholesterol lowering. Azen SP, et al. **Circulation** 1996 Nov 15;94(10):2369-72

Dietary L-arginine reduces the progression of atherosclerosis in cholesterol-fed rabbits: comparison with lovastatin. Böger RH, et al. **Circulation** 1997 Aug 19;96(4):1282-90

Arginine: a new therapy for atherosclerosis? [editorial; comment] Cooke JP, et al. **Circulation** 1997 Jan 21; 95(2):311-2 (23 ref.). Comment on: Circulation 1997 Jan 21;95(2):430-7.

Contrasting effects of conjugated estrogens and tamoxifen on dilator responses of atherosclerotic epicardial coronary arteries in nonhuman primates. Williams JK, et al. **Circulation** 1997 Sep 16;96(6):1970-5

Low-dose intermittent urokinase therapy in chronic symptomatic end-stage arterial disease--clinical relevance for patients with coronary artery disease or peripheral arterial occlusive disease. Leschke M, et al. **Clin Hemorheol Microcirc** 1997 Jan-Feb;17(1):59-66 (51 ref.)

Registry of multicenter clinical trials: 14th and 15th report 1992-1993. Bossard N, et al. **Control Clin Trials** 1996 Apr; 17(2):130-75

Therapy and clinical trials [editorial] Dutta-Roy AK. **Curr Opin Lipidol** 1996 Feb;7(1):U34-7

Biological mechanisms for the clinical success of lipid-lowering in coronary artery disease and the use of surrogate end-points. Kinlay S, et al. **Curr Opin Lipidol** 1996 Dec;7(6):389-97 (104 ref.)

Calcium antagonists and atherosclerosis. Experimental evidence. Catapano AL. **Eur Heart J** 1997 Jan;18 Suppl A:A80-6 (73 ref.)

Potential role of angiotensin converting enzyme inhibitors in treatment of atherosclerosis. Pitt B. **Eur Heart J** 1995 Nov;16 Suppl K:49-54 (37 ref.)

High-density lipoproteins from probucol-treated patients have increased capacity to promote cholesterol efflux from mouse peritoneal macrophages loaded with acetylated low-density lipoproteins. Ishigami M, et al. **Eur J Clin Invest** 1997 Apr;27(4):285-92

Prostaglandin E1 decreases human arterial accumulation of radiolabeled apo B-containing lipoproteins in vivo. Kritz H, et al. **Eur J Clin Pharmacol** 1997;52(3):191-7

Lipid-lowering effects of fluvastatin in renal transplant patients. A clinical observation. Lal SM, et al. **Int J Artif Organs** 1997 Jan;20(1):18-21

Effects of estrogen on atherosclerosis formation and serum nitrite/nitrate concentrations in cholesterol-fed ovariectomized rabbits. Akishita M, et al. **J Atheroscler Thromb** 1996;3(2):114-9

Apolipoprotein E2 transgenic rabbits. Modulation of teh type III hyperlipoproteinemic phenotype by estrogen and occurrence of spontaneous atherosclerosis. Huang Y, et al. **J Biol Chem** 1997 Sep 5;272(36):22685-94

Therapeutic effects of nitric oxide-donor isosorbide dinitrate on atherosclerosis-induced alterations in hemodynamics and arterial viscoelasticity are independent of the wall elastic component. Augier T, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):752-9

Reversibility of atherosclerosis--evolving perspectives from two arterial imaging clinical trials: the cholesterol lowering atherosclerosis regression study and the monitored atherosclerosis regression study. Hodis HN. **J Cardiovasc Pharmacol** 1995;25 Suppl 4:S25-31

Tyrosine kinase inhibitor markedly suppresses the development of coronary lesions induced by long-term treatment with platelet-derived growth factor in pigs in vivo. Kozai T, et al. **J Cardiovasc Pharmacol** 1997 Apr; 29(4):536-45

Animal studies on antioxidants. Afridi N, et al. **J Cardiovasc Risk** 1996 Aug;3(4):358-62 (42 ref.)

Evaluating the benefits of an antihypertensive agent using trials based on event and organ damage: the Systolic Hypertension in the Elderly Long-term Lacidipine (SHELL) trial and the European Lacidipine Study on Atherosclerosis (ELSA). Zanchetti A. **J Hypertens Suppl** 1995 Dec;13(4):S35-9 (28 ref.)

Trials investigating the anti-atherosclerotic effects of antihypertensive drugs. Zanchetti A. **J Hypertens Suppl** 1996 Sep;14(2):S77-80; discussion S80-1 (14 ref.)

Heterocyclic amides: inhibitors of acyl-CoA:cholesterol O-acyl transferase with hypocholesterolemic activity in several species and antiatherosclerotic activity in the rabbit. White AD, et al. **J Med Chem** 1996 Sep 27;39(20):3908-19

The effect of ACE inhibitors on atheroma formation is potentiated by association with a calcium channel blocker. A biochemical and ultrastructural study. Raicu M, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):317-28

Local delivery of antithrombotic drug prevents restenosis after balloon angioplasty in atherosclerotic rabbit artery. Tomaru T, et al. **Jpn Circ J** 1996 Dec;60(12):981-92

In vivo intravascular laser photodynamic therapy in rabbit atherosclerotic lesions using a lateral direction fiber. Katoh T, et al. **Lasers Surg Med** 1997;20(4):373-81

Anti-atherosclerotic properties of antihypertensive drugs: effect of antihypertensive therapy on platelet receptors for von Willebrand factor and for fibrinogen [letter] Liani M, et al. **Nephron** 1996;73(2):361-2

Improved survival with statin therapy. Clem JR. **S D J Med** 1996 Aug;49(8):273-4

Approaches for the design of novel anti-atherogenic compounds. Biessen EA, et al. **Subcell Biochem** 1997; 28:507-39 (204 ref.)

Effect of evening primrose oil on platelet aggregation in rabbits fed an atherogenic diet. De La Cruz JP, et al. **Thromb Res** 1997 Jul 1;87(1):141-9

Effect of isradipine on in-vivo platelet function. O'Grady J, et al. **Thromb Res** 1997 Jun 1;86(5):363-71

Atherosclerotic vascular disease: will folate or gene therapy be useful? Heistad DD, et al. **Trans Am Clin Climatol Assoc** 1996;108:69-76; discussion 76-7 (21 ref.)

Treatment with L-arginine is likely to stimulate generation of nitric oxide in patients with peripheral arterial obstructive disease. Gryglewski RJ, et al. **Wien Klin Wochenschr** 1996;108(4):111-6

[Course of ischemic risk in treated atheromatous hypertensive patients. The PRIHAM study (Prognosis of Ischemic Risk in Atheromatous Patients under Mediatensyl)] Godeau P, et al. **Ann Med Interne (Paris)** 1996;147(6):403-7 (Eng. Abstr.) **(Fre)**

[Regression of the plaque after prolonged pharmacologic treatment] Coccheri S, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):287-93 **(Ita)**

[Anti-atherosclerotic action of angiotensin converting enzyme II. Effect on metabolism of kinin, free radical reaction, sensitivity to insulin and lipid metabolism] Stajszczyk M, et al. **Postepy Hig Med Dosw** 1996; 50(6):635-47 (71 ref.) (Eng. Abstr.) **(Pol)**

[The effect of garlic preparation alisat on the level of lipid peroxidation products, activity of various antioxidant enzymes, and blood level of lipoproteins in patients with atherosclerosis] Mikhin VP, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):502-4 **(Rus)**

[The possible means for the pharmacological correction of lipid metabolic disorders in atherosclerosis] Piskun RP, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):78-85 (128 ref.) (Eng. Abstr.) **(Rus)**

[The hypolipidemic and antiatherosclerotic properties of the ammonium salt of glycyrrhetic acid and of 18-dehydroglycyrrhetic acid] Zakirov UB, et al. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):53-5 (Eng. Abstr.) **(Rus)**

[The role of nicotinic acid in the treatment of atherosclerosis and atherogenic dyslipidemia] Aronov DM. **Klin Med (Mosk)** 1996;74(9):48-52 (25 ref.) **(Rus)**

[The correction of the pathological changes in the neuroendocrine system in hyperlipoproteinogenic microangiopathy] Pozdniakov OM, et al. **Patol Fiziol Eksp Ter** 1997 Apr-Jun;(2):9-11 (Eng. Abstr.) **(Rus)**

[The effect of olivomycin on the spontaneous regression of experimental atherosclerosis in rabbits of different ages] Frol'kis VV, et al. **Fiziol Zh** 1997;43(3-4):3-10 (Eng. Abstr.) **(Ukr)**

ENZYMOLOGY

Increased activity of vascular ACE related to atherosclerotic lesions in hyperlipidemic rabbits. Mitani H, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1065-71

Induction of nitric oxide synthase in the neointima induced by a periarterial collar in rabbits. Arthur JF, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):737-40

Localization of nonpancreatic secretory phospholipase A2 in normal and atherosclerotic arteries. Activity of the isolated enzyme on low-density lipoproteins. Hurt-Camejo E, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):300-9

New aspects on the role of plasma lipases in lipoprotein catabolism and atherosclerosis. Beisiegel U. **Atherosclerosis** 1996 Jul;124(1):1-8 (111 ref.)

Expression of secretory group II phospholipase A2 by CD1a positive cells-in human atherosclerotic plaques [letter; comment] Bobryshev YV, et al. **Atherosclerosis** 1996 Dec 20;127(2):283-5. Comment on: Atherosclerosis 1995 Dec;118(2):173-81.

Expression of inducible nitric oxide synthase in T lymphocytes and macrophages of cholesterol-fed rabbits. Esaki T, et al. **Atherosclerosis** 1997 Jan 3;128(1):39-46

Vascular angiotensin-converting enzyme activity in cholesterol-fed rabbits: effects of enalapril. Hoshida S, et al. **Atherosclerosis** 1997 Apr;130(1-2):53-9

Potential involvement of type II phospholipase A2 in atherosclerosis. Hurt-Camejo E, et al. **Atherosclerosis** 1997 Jul 11;132(1):1-8 (91 ref.)

Increased secretion of gelatinases A and B from the aortas of cholesterol fed rabbits: relationship to lesion severity. Zaltsman AB, et al. **Atherosclerosis** 1997 Apr; 130(1-2):61-70

Expression of human cholesterol 7alpha-hydroxylase in atherosclerosis-susceptible mice via adenovirus infection. Moore GL, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):863-7

Localization of sterol 27-hydroxylase immuno-reactivity in human atherosclerotic plaques. Crisby M, et al. **Biochim Biophys Acta** 1997 Feb 18;1344(3):278-85

Increased activity of guanylate cyclase in the atherosclerotic rabbit aorta: role of non-endothelial nitric oxide synthases. Rupin A, et al. **Br J Pharmacol** 1996 Nov;119(6):1233-8

Regulation of matrix metalloproteinase expression in human vascular smooth muscle cells by T lymphocytes: a role for CD40 signaling in plaque rupture? Schönbeck U, et al. **Circ Res** 1997 Sep;81(3):448-54

The role of 15-lipoxygenase in atherogenesis: pro- and antiatherogenic actions. Kühn H, et al. **Curr Opin Lipidol** 1997 Apr;8(2):111-7 (68 ref.)

Hepatic lipase deficiency increases plasma cholesterol but reduces susceptibility to atherosclerosis in apolipoprotein E-deficient mice. Mezdour H, et al. **J Biol Chem** 1997 May 23;272(21):13570-5

Rabbit aorta and human atherosclerotic lesions hydrolyze the sphingomyelin of retained low-density lipoprotein. Proposed role for arterial-wall sphingomyelinase in subendothelial retention and aggregation of atherogenic lipoproteins. Schissel SL, et al. **J Clin Invest** 1996 Sep 15; 98(6):1455-64

Effect of dietary cholesterol on the activities of key enzymes of cholesterol metabolism in hyperlipidemia- and atherosclerosis-prone Japanese quail. Nagata J, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Aug;42(4):287-300

Effect of tamoxifen on lipids and lipid metabolising marker enzymes in experimental atherosclerosis in Wistar rats. Vinitha R, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):13-9

[Metalloproteinase in carotid endarterectomy plaques: increased activity in critical stenosis zones] Mertens R, et al. **Rev Med Chil** 1996 Jun;124(6):669-74 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Iron status and risk of cardiovascular disease. Corti MC, et al. **Ann Epidemiol** 1997 Jan;7(1):62–8 (48 ref.)

Current estrogen–progestin and estrogen replacement therapy in elderly women: association with carotid atherosclerosis. CHS Collaborative Research Group. Cardiovascular Health Study. Jonas HA, et al. **Ann Epidemiol** 1996 Jul;6(4):314–23

Epidemiological evidence for the association of hyperglycaemia and atherosclerotic vascular disease in non–insulin–dependent diabetes mellitus. Laakso M, et al. **Ann Med** 1996 Oct;28(5):415–8 (23 ref.)

Difference in atherosclerosis between the populations of a fishing and a farming village in Japan. Yamada T, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:412–9

Asymptomatic carotid artery stenosis screening in patients with lower extremity atherosclerosis: a prospective study. de Virgilio C, et al. **Ann Vasc Surg** 1997 Jul;11(4):374–7

Atherosclerotic disease in patients undergoing cataract extraction. A nationwide case–control study. The Cataract Patient Outcomes Research Team. Street DA, et al. **Arch Ophthalmol** 1996 Nov;114(11):1407–11

Hopelessness and 4–year progression of carotid atherosclerosis. The Kuopio Ischemic Heart Disease Risk Factor Study. Everson SA, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1490–5

Hazards, risks, and threats of heart disease from the early stages to symptomatic coronary heart disease and cardiac failure. Kannel WB. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:199–212 (46 ref.)

Workplace demands, economic reward, and progression of carotid atherosclerosis. Lynch J, et al. **Circulation** 1997 Jul 1;96(1):302–7

A prospective study of coronary heart disease in relation to fasting insulin, glucose, and diabetes. The Atherosclerosis Risk in Communities (ARIC) Study. Folsom AR, et al. **Diabetes Care** 1997 Jun;20(6):935–42

Serum Lp AI lipoprotein particles and other antiatherogenic lipid parameters in normolipidaemic obese subjects. Lecerf JM, et al. **Diabetes Metab** 1996 Oct;22(5):331–40

Hypertriglyceridemia and its metabolic consequences as a risk factor for atherosclerotic cardiovascular disease in non–insulin–dependent diabetes mellitus. Lewis GF, et al. **Diabetes Metab Rev** 1996 Apr;12(1):37–56 (204 ref.)

Fibrinogen and diabetes mellitus: is it time for intervention trials? [see comments] Ceriello A. **Diabetologia** 1997 Jun; 40(6):731–4 (46 ref.). Comment in: Diabetologia 1997 Jun;40(6):735–7. Comment in: Diabetologia 1997 Jun;40(6):738–40.

Fibrin(ogen) and diabetes mellitus: don't forget fibrinolysis [comment] [see comments] Morale M, et al. **Diabetologia** 1997 Jun;40(6):735–7 (28 ref.). Comment on: Diabetologia 1997 Jun;40(6):731–4. Comment in: Diabetologia 1997 Jun;40(6):738–40.

Atherogenic risk reduction in patients with dyslipidaemia. comparison between bezafibrate and lovastatin. Sinzinger H, et al. **Eur Heart J** 1995 Nov;16(11):1491–501

Snoring and atherosclerotic manifestations in a 70–year–old population. Jennum P, et al. **Eur J Epidemiol** 1996 Jun; 12(3):285–90

Screening for concomitant diseases in peripheral vascular patients. Results of a systematic approach. von Kemp K, et al. **Int Angiol** 1997 Jun;16(2):114–22

The distribution of peripheral arterial disease in a defined population of elderly high–risk Saudi patients. Al Zahrani HA, et al. **Int Angiol** 1997 Jun;16(2):123–8

Intraindividual variations in lipoprotein (a) levels and factors related to these changes. Nakajima K, et al. **J Atheroscler Thromb** 1996;2(2):96–106

Prevalence of carotid atherosclerosis in middle–aged hypertensive and control subjects. A cross–sectional systematic study with duplex ultrasound. Päivänsalo M, et al. **J Hypertens** 1996 Dec;14(12):1433–9

Increased serum levels of interleukin–1beta in the systemic circulation of patients with essential hypertension: additional risk factor for atherogenesis in hypertensive patients? [see comments] Dalekos GN, et al. **J Lab Clin Med** 1997 Mar;129(3):300–8. Comment in: J Lab Clin Med 1997 Mar;129(3):283–4.

Plasma homocysteine as a risk factor for vascular disease. The European Concerted Action Project. Graham IM, et al. **JAMA** 1997 Jun 11;277(22):1775–81

Association of serum lipoprotein(a) levels and apolipoprotein(a) size polymorphism with target–organ damage in arterial hypertension. Sechi LA, et al. **JAMA** 1997 Jun 4;277(21):1689–95

Renovasculopathies of nephrosclerosis in relation to atherosclerosis at ages 25 to 54 years. Tracy RE, et al. **Kidney Int** 1996 Feb;49(2):564–70

Remnant–like particle cholesterol may indicate atherogenic risk in patients on chronic hemodialysis. Oda H, et al. **Nephron** 1997;76(1):7–14

A study of the development of atherosclerosis in childhood and young adults: risk factors and the prevention of progression in Japan and the USA. The Pathobiological Determinants of Atherosclerosis in Youth (PDAY) Research Group. Komatsu A, et al. **Pathol Int** 1996 Aug; 46(8):541–7 (38 ref.)

Prevalence and determinants of carotid atherosclerosis in healthy postmenopausal women. Lassila HC, et al. **Stroke** 1997 Mar;28(3):513–7

Prevalence of asymptomatic carotid atherosclerotic lesions detected by high–resolution ultrasonography and its relation to cardiovascular risk factors in the general population of a Japanese city: the Suita study. Mannami T, et al. **Stroke** 1997 Mar;28(3):518–25

Associations between carotid atherosclerosis and high factor VIII activity, dyslipidemia, and hypertension. Pan WH, et al. **Stroke** 1997 Jan;28(1):88–94

The prevalence of lung cancer in vascular surgery patients. Gawenda M, et al. **Thorac Cardiovasc Surg** 1996 Dec; 44(6):304–7

Correlation between oxidized low density lipoproteins and von Willebrand factor in chronic renal failure. Holvoet P, et al. **Thromb Haemost** 1996 Nov;76(5):663–9

Factor VII and fibrinogen levels examined by age, sex, and other atherosclerotic risk factors in a Japanese population. The Jichi Medical School Cohort Study. Ishikawa S, et al. **Thromb Haemost** 1997 May;77(5):890–3

Dilemma: maintenance therapy enhances sclerogenic risk profile. Jacobs U, et al. **Transplant Proc** 1996 Dec; 28(6):3227–30

[The prevalence and risk factors of carotid atherosclerosis in elderly patients] Shi Z, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):25–7 (Eng. Abstr.) **(Chi)**

[Hyperhomocysteinemia: a new risk factor for atherosclerosis] Störk S, et al. **Dtsch Med Wochenschr** 1997 Jan 3;122(1–2):1–2 (15 ref.) **(Ger)**

[Characteristics of apolipoprotein polymorphism in a Hungarian population] Császár A. **Orv Hetil** 1997 Sep 7; 138(36 Suppl 2):2296–7 (Eng. Abstr.) **(Hun)**

[Precursors of atherosclerosis in a population of adolescents in northern Italy] Mussi A, et al. **Ann Ig** 1996 Nov–Dec; 8(6):639–47 **(Ita)**

[Lipoprotein(a) as an athero–thrombotic risk factor: epidemiologic evidence and possible pathogenetic mechanisms] Lenzi S, et al. **G Ital Cardiol** 1996 Oct; 26(10):1203–25 (189 ref.) (Eng. Abstr.) **(Ita)**

[Estrogen–progestin contraception and biohumoral response of new markers of the atheroma risk. Behavior of lipoprotein(a) and apolipoproteins A and B] Porcelli A, et al. **Minerva Ginecol** 1997 Mar;49(3):63–6 (Eng. Abstr.) **(Ita)**

[Is there a relationship between sex, age, Lp(a) blood levels, lipid values, and atherosclerotic carotid lesions?] Postorino G, et al. **Minerva Med** 1996 Sep;87(9):379–83 (Eng. Abstr.) **(Ita)**

[Atherosclerotic cardiovascular disease, lipemic disorders, hypertension, obesity and diabetes mellitus in the population of a metropolitan area of southeastern Brazil. II—Lipemic disorders] Martins IS, et al. **Rev Saude Publica** 1996 Feb;30(1):75–84 (Eng. Abstr.) **(Por)**

[Atherosclerosis in diabetes mellitus (repeated epidemiologic studies of atherosclerosis with an interval of 25 years)] Zhdanov VS, et al. **Arkh Patol** 1996 Sep–Oct;58(5):35–9 (Eng. Abstr.) **(Rus)**

ETHNOLOGY

Racial differences in risk factors for atherosclerosis. The ARIC Study. Atherosclerosis Risk in Communities. Hutchinson RG, et al. **Angiology** 1997 Apr;48(4):279–90

Relationship of cardiovascular risk factors to racial differences in femoral bypass surgery and abdominal aortic aneurysmectomy in Massachusetts. LaMorte WW, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:25–35 (27 ref.)

Hypertension and subclinical carotid artery atherosclerosis in blacks and whites. The Atherosclerosis Risk in Communities Study. ARIC Investigators [see comments] Arnett DK, et al. **Arch Intern Med** 1996 Sep 23; 156(17):1983–9. Comment in: Arch Intern Med 1996 Sep 23;156(17):1922–3.

Racial differences in operation for peripheral vascular disease: results of a population–based study. Brothers TE, et al. **Cardiovasc Surg** 1997 Feb;5(1):26–31

Ethnic differences in carotid wall thickness. The Insulin Resistance Atherosclerosis Study. D'Agostino RB Jr, et al. **Stroke** 1996 Oct;27(10):1744–9

Race–ethnicity and determinants of carotid atherosclerosis in a multiethnic population. The Northern Manhattan Stroke Study. Sacco RL, et al. **Stroke** 1997 May; 28(5):929–35

ETIOLOGY

Body composition, atherogenic risk factors and apolipoproteins following growth hormone treatment. Hassan HM, et al. **Acta Paediatr** 1996 Aug;85(8):899–901

The role of endothelin in the pathogenesis of atherosclerosis. Kowala MC. **Adv Pharmacol** 1997;37:299–318 (159 ref.)

Atherosclerosis and the vascular biology of aging. Bilato C, et al. **Aging (Milano)** 1996 Aug;8(4):221–34 (131 ref.)

Cigarette smoking and antioxidant vitamins: the smoke screen continues to clear but has a way to go [editorial; comment] [see comments] Cross CE, et al. **Am J Clin Nutr** 1997 Feb; 65(2):562–3. Comment on: Am J Clin Nutr 1997 Feb;65(2):496–502. Comment in: Am J Clin Nutr 1997 Sep;66(3):708–10.

Relation of plasma phospholipid and cholesterol ester fatty acid composition to carotid artery intima–media thickness: the Atherosclerosis Risk in Communities (ARIC) Study. Ma J, et al. **Am J Clin Nutr** 1997 Feb;65(2):551–9

Dietary fat and insulin sensitivity in a triethnic population: the role of obesity. The Insulin Resistance Atherosclerosis Study (IRAS) [see comments] Mayer–Davis EJ, et al. **Am J Clin Nutr** 1997 Jan;65(1):79–87. Comment in: Am J Clin Nutr 1997 Jan;65(1):164–5.

Femoral atherosclerosis in middle–aged subjects: association with cardiovascular risk factors and insulin resistance. Kekäläinen P, et al. **Am J Epidemiol** 1996 Oct 15; 144(8):742–8

Specificity of detection of Chlamydia pneumoniae in cardiovascular atheroma: evaluation of the innocent bystander hypothesis. Jackson LA, et al. **Am J Pathol** 1997 May;150(5):1785–90

Increased activity of vascular ACE related to atherosclerotic lesions in hyperlipidemic rabbits. Mitani H, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1065–71

The oxidation hypothesis of atherosclerosis: an update. Westhuyzen J. **Ann Clin Lab Sci** 1997 Jan–Feb;27(1):1–10 (90 ref.)

Risk factors for atherosclerosis in young subjects: the PDAY Study. Pathobiological Determinants of Atherosclerosis in Youth. Malcom GT, et al. **Ann N Y Acad Sci** 1997 May 28;817:179–88 (16 ref.)

Hyperhomocyst(e)inemia and atherothrombosis. Welch GN, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:48–58; discussion 58–9 (64 ref.)

Macrophage products inhibit human aortic smooth muscle cell proliferation and alter 1 alpha (I) procollagen expression. Halloran BG, et al. **Ann Vasc Surg** 1997 Jan; 11(1):80–4

Oxidized low density lipoproteins in atherogenesis: role of dietary modification. Reaven PD, et al. **Annu Rev Nutr** 1996;16:51–71 (94 ref.)

Cytomegalovirus and atherosclerosis. Melnick JL, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):297–302 (30 ref.)

Exacerbation of atherosclerosis by hypertension. Potential mechanisms and clinical implications [see comments] Chobanian AV, et al. **Arch Intern Med** 1996 Sep 23; 156(17):1952–6 (54 ref.). Comment in: Arch Intern Med 1996 Sep 23;156(17):1919–20. Comment in: Arch Intern Med 1997 Jun 9;157(11):1265–6.

Exacerbation of atherosclerosis by hypertension: potential mechanisms and clinical implications [letter; comment] Lip GY. **Arch Intern Med** 1997 Jun 9;157(11):1265–6. Comment on: Arch Intern Med 1996 Sep 23;156(17):1952–6.

Urbanization elicits a more atherogenic lipoprotein profile in carriers of the apolipoprotein A–IV–2 allele than in A–IV–1 homozygotes. Campos H, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1074–81

Influence of the geometry of the left main coronary artery bifurcation on the distribution of sudanophilia in the daughter vessels. Ding Z, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1356–60

Vitamin C reduces cholesterol–induced microcirculatory changes in rabbits. Freyschuss A, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1178–84

Association of serum vitamin levels, LDL susceptibility to oxidation, and autoantibodies against MDA–LDL with carotid atherosclerosis. A case–control study. The ARIC Study Investigators. Atherosclerosis Risk in Communities. Iribarren C, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1171–7

Effects of serum lipoproteins and smoking on atherosclerosis in young men and women. The PDAY Research Group. Pathobiological Determinants of Atherosclerosis in Youth. McGill HC Jr, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):95–106

Alcohol increases plasma levels of cholesterol diet–induced atherogenic lipoproteins and aortic atherosclerosis in rabbits. Shaish A, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1091–7

Complement–induced release of monocyte chemotactic protein–1 from human smooth muscle cells. A possible initiating event in atherosclerotic lesion formation. Torzewski J, et al. **Arterioscler Thromb Vasc Biol** 1996 May;16(5):673–7

Autoantibodies against oxidized LDL do not predict atherosclerotic vascular disease in non–insulin–dependent diabetes mellitus. Uusitupa MI, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct;16(10):1236–42

Increased proliferation of explanted vascular smooth muscle cells: a marker presaging atherogenesis. Absher PM, et al. **Atherosclerosis** 1997 Jun;131(2):187–94

Smokeless tobacco use and atherosclerosis: an ultrasonographic investigation of carotid intima media thickness in healthy middle–aged men. Bolinder G, et al. **Atherosclerosis** 1997 Jul 11;132(1):95–103

The possible role of copper ions in atherogenesis: the Blue Janus. Ferns GA, et al. **Atherosclerosis** 1997 Sep; 133(2):139–52 (219 ref.)

Effects of low–dose pravastatin sodium on plasma cholesterol levels and aortic atherosclerosis of heterozygous WHHL rabbits fed a low cholesterol (0.03%) enriched diet for one year. Harsch M, et al. **Atherosclerosis** 1997 Feb 10; 128(2):139–47

Nitric oxide—biological mediator, modulator and factor of injury: its role in the pathogenesis of atherosclerosis. Radomski MW, et al. **Atherosclerosis** 1995 Dec;118 Suppl:S69–80 (122 ref.)

Cellular and molecular studies of atherogenesis. Ross R. **Atherosclerosis** 1997 Jun;131 Suppl:S3–4 (2 ref.)

Lipoprotein(a) induces cell growth in rat peritoneal

macrophages through inhibition of transforming growth factor-beta activation. Sato Y, et al. **Atherosclerosis** 1996 Aug 23;125(1):15–26

Haemostatic factors and atherogenesis. Smith EB. **Atherosclerosis** 1996 Aug 2;124(2):137–43 (80 ref.)

A critical look at the evidence for the oxidation of LDL in atherogenesis. Steinberg D. **Atherosclerosis** 1997 Jun;131 Suppl:S5–7 (7 ref.)

Expression of vascular cell adhesion molecule-1 (VCAM-1) in the aortae of hypercholesterolemic rabbits with high (HAR) and low (LAR) atherosclerotic response. Teupser D, et al. **Atherosclerosis** 1997 Feb 10;128(2):157–64

Wall shear rate measurements in an elastic curved artery model. Weston MW, et al. **Biorheology** 1997 Jan–Feb; 34(1):1–17

How to study the role of hypertension in atherosclerosis. Lessons from MIDAS. Multicentre Isradipine Diuretic Atherosclerosis Study. Hansson L. **Blood Press Suppl** 1996; 4:16–9 (19 ref.)

Prevalence of carotid atherosclerosis in hypertension: preliminary baseline data from the European Lacidipine Study on Atherosclerosis (ELSA). Zanchetti A. **Blood Press Suppl** 1996;4:30–5

Postprandial lipaemia is exacerbated in fat-cholesterol-fed rabbits: relationship to atheroma deposition. Juhel C, et al. **Br J Nutr** 1997 Aug;78(2):301–11

Fibrinogen, fibrin turnover, endothelial products and vascular surgery. Woodburn KR, et al. **Br J Surg** 1997 Aug;84(8):1059–64 (87 ref.)

Dietary antioxidants and cardioprotection--fact or fallacy? Steinbrecher UP. **Can J Physiol Pharmacol** 1997 Mar; 75(3):228–33 (66 ref.)

Long-term evaluation of vein bypass grafts: lessons to be learned [editorial; comment] Clark DA. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):151. Comment on: Cathet Cardiovasc Diagn 1997 Jun;41(2):141–50.

Progression of atherosclerosis after venous coronary artery bypass graft surgery: a 15-year follow-up study [see comments] van Brussel BL, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):141–50. Comment in: Cathet Cardiovasc Diagn 1997 Jun;41(2):151.

Magnesium and cardiovascular biology: an important link between cardiovascular risk factors and atherogenesis. Altura BM, et al. **Cell Mol Biol Res** 1995;41(5):347–59 (95 ref.)

Risk factors, endothelial cell turnover and lipid transport in atherogenesis. Lin SJ. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov; 58(5):309–16 (55 ref.)

Induction of vascular endothelial growth factor in balloon-injured baboon arteries. A novel role for reactive oxygen species in atherosclerosis. Ruef J, et al. **Circ Res** 1997 Jul;81(1):24–33

Comparison of aorta and pulmonary artery: I. Early cholesterol accumulation and relative susceptibility to atheromatous lesions. Schwenke DC. **Circ Res** 1997 Sep; 81(3):338–45

Comparison of aorta and pulmonary artery: II. LDL transport and metabolism correlate with susceptibility to atherosclerosis. Schwenke DC. **Circ Res** 1997 Sep; 81(3):346–54

Calcifying subpopulation of bovine aortic smooth muscle cells is responsive to 17 beta-estradiol. Balica M, et al. **Circulation** 1997 Apr 1;95(7):1954–60

Hyperhomocysteinemia confers an independent increased risk of atherosclerosis in end-stage renal disease and is closely linked to plasma folate and pyridoxine concentrations. Robinson K, et al. **Circulation** 1996 Dec 1;94(11):2743–8

Is atherosclerosis exclusively a postprandial phenomenon? Mamo JC, et al. **Clin Exp Pharmacol Physiol** 1997 Mar-Apr;24(3–4):288–93 (48 ref.)

Regulation and role of urokinase plasminogen activator in vascular remodelling. Tkachuk V, et al. **Clin Exp Pharmacol Physiol** 1996 Sep;23(9):759–65 (75 ref.)

Regulation of leucocyte-endothelial interactions of special relevance to atherogenesis. Vadas MA, et al. **Clin Exp Pharmacol Physiol** 1997 May;24(5):A33–5 (20 ref.)

The role of hyperglycemia and hyperinsulinemia in the pathogenesis of diabetic angiopathy. Haller H, et al. **Clin Nephrol** 1996 Oct;46(4):246–55 (89 ref.)

Lipoprotein alterations and atherosclerosis in the elderly. Corti MC, et al. **Curr Opin Lipidol** 1997 Aug;8(4):236–41 (47 ref.)

Atherosclerosis: cell biology and lipoproteins [editorial] Wahle KW. **Curr Opin Lipidol** 1996 Feb;7(1):U25–33

Atherogenic lipoproteins and human disease: extending concepts beyond the heart to the kidney. Kamanna VS, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):205–11 (57 ref.)

Endothelial dysfunction: cause of the insulin resistance syndrome. Pinkney JH, et al. **Diabetes** 1997 Sep;46 Suppl 2:S9–13

Recent progress in advanced glycation end products and diabetic complications. Vlassara H. **Diabetes** 1997 Sep;46 Suppl 2:S19–25

Cellular mechanisms in the development of atherosclerosis. Rosenfeld ME. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:1–11 (68 ref.)

Adhesion molecules influencing atherosclerosis. Tschoepe D. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:19–24 (60 ref.)

Hyperinsulinaemia accelerates accumulation of cholesterol ester in aorta of rats with transplanted pancreas. Abe H, et al. **Diabetologia** 1996 Nov;39(11):1276–83

Are insulin resistance and atherosclerosis the consequences of oxidative stress? [letter; comment] Wittmann I, et al. **Diabetologia** 1996 Aug;39(8):1002–3. Comment on: Diabetologia 1995 Dec;38(12):1484–5.

Abdominal aortic aneurysms [editorial; comment] Bergqvist D. **Eur Heart J** 1997 Apr;18(4):545–6. Comment on: Eur Heart J 1997 Apr;18(4):671–6.

Smoking, atherosclerosis and risk of abdominal aortic aneurysm [see comments] Lee AJ, et al. **Eur Heart J** 1997 Apr;18(4):671–6. Comment in: Eur Heart J 1997 Apr;18(4):545–6.

Relationship between fasting insulin and cardiovascular risk factors is already present in young men: the Verona Young Men Atherosclerosis Risk Factors Study. Bonora E, et al. **Eur J Clin Invest** 1997 Mar;27(3):248–54

Plasma factor VII and its relation to adipose tissue fatty acids and other atherogenic risk factors in healthy men. Cigolini M, et al. **Eur J Clin Invest** 1996 Mar;26(3):247–53

Triglyceride-rich lipoproteins in non-insulin-dependent diabetes mellitus: post-prandial metabolism and relation to premature atherosclerosis. De Man FH, et al. **Eur J Clin Invest** 1996 Feb;26(2):89–108 (264 ref.)

Glycated low-density lipoprotein and atherogenesis: the missing link between diabetes mellitus and hypercholesterolaemia? [editorial] Graier WF, et al. **Eur J Clin Invest** 1997 Jun;27(6):457–9 (32 ref.)

Indications of an autoimmune component in LP(a) associated disorders. Dahlén GH. **Eur J Immunogenet** 1994 Oct; 21(5):301–12

Nitric oxide in coronary artery disease: roles in atherosclerosis, myocardial reperfusion and heart failure. Dusting GJ. **EXS** 1996;76:33–55 (108 ref.)

Dietary fatty acids in athero-thrombogenesis: influence of palm oil ingestion. de Bosch NB, et al. **Haemostasis** 1996 Oct;26 Suppl 4:46–54 (35 ref.)

Of plaques and stones: the SR-B1 (scavenger receptor class B, type 1). Arrese MA, et al. **Hepatology** 1997 Oct; 26(4):1072–4

Homocysteine, oxidative stress, and vascular disease [see comments] Welch GN, et al. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):81–2, 85, 88–92 (13 ref.). Comment in: Hosp Pract (Off Ed) 1997 Aug 15;32(8):44.

Major risk factors for atherosclerosis are manifested in experimental Ca-deficiency. Koide M, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S35–40

Association of serum antibodies to heat-shock protein 65 with borderline hypertension. Frostegård J, et al. **Hypertension** 1997 Jan;29(1 Pt 1):40–4

The role of mast cells in atherosclerosis. Metzler B, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):10–4 (34 ref.)

Oxidized low-density lipoprotein and atherosclerosis. Devaraj S, et al. **Int J Clin Lab Res** 1996;26(3):178–84 (86 ref.)

Visceral fat accumulation and vascular complications associated with VMH lesioning of spontaneously non-insulin-dependent diabetic GK rat. Yoshida S, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):909–16

An adult case of Cockayne syndrome without sclerotic angiopathy. Inoue T, et al. **Intern Med** 1997 Aug; 36(8):565–70

Symposium on treatment of diabetic complications. 4. Diabetes and atherosclerosis. Yamada N. **Intern Med** 1997 Feb;36(2):142–4

Non-traditional risk factors for atherosclerosis in high risk children. Blieden LC, et al. **Isr J Med Sci** 1996 Dec; 32(12):1255–61

The role of inflammation in atherosclerosis. Blum A, et al. **Isr J Med Sci** 1996 Nov;32(11):1059–65 (79 ref.)

Effects of estrogen on atherosclerosis formation and serum nitrite/nitrate concentrations in cholesterol-fed ovariectomized rabbits. Akishita M, et al. **J Atheroscler Thromb** 1996;3(2):114–9

Immune and inflammatory mechanisms in the pathogenesis of atherosclerosis. Hansson GK. **J Atheroscler Thromb** 1994;1 Suppl 1:S6–9 (42 ref.)

Development of atherosclerosis in alloxan diabetic rats. Uchida K, et al. **J Atheroscler Thromb** 1994;1(2):118–28

Lipoprotein trafficking in vascular cells. Molecular Trojan horses and cellular saboteurs. Hajjar DP, et al. **J Biol Chem** 1997 Sep 12;272(37):22975–8 (64 ref.)

Accelerated atherosclerosis in mice lacking tumor necrosis factor receptor p55. Schreyer SA, et al. **J Biol Chem** 1996 Oct 18;271(42):26174–8

Low density lipoprotein oxidation and its pathobiological significance. Steinberg D. **J Biol Chem** 1997 Aug 22; 272(34):20963–6 (74 ref.)

The role of the vascular endothelium in inflammatory syndromes, atherogenesis, and the propagation of disease. Hill GE, et al. **J Cardiothorac Vasc Anesth** 1997 May; 11(3):316–21 (76 ref.)

Editorial on CHD. Riesen WF. **J Cardiovasc Pharmacol** 1995; 25 Suppl 4:S1–2 (30 ref.)

Basic research in antioxidant inhibition of steps in atherogenesis. Gokce N, et al. **J Cardiovasc Risk** 1996 Aug; 3(4):352–7 (65 ref.)

In vivo action of 15-lipoxygenase in early stages of human atherogenesis. Kühn H, et al. **J Clin Invest** 1997 Mar 1; 99(5):888–93

Is lipid oxidation essential for atherogenesis? Mitchinson MJ. **J Clin Pathol** 1997 Apr;50(4):268

Atherosclerotic renovascular disease: clinical clues and natural history. Gosset J, et al. **J Endovasc Surg** 1997 Aug; 4(3):316–20 (27 ref.)

Novel vascular molecule involved in monocyte adhesion to aortic endothelium in models of atherogenesis. McEvoy LM, et al. **J Exp Med** 1997 Jun 16;185(12):2069–77

Hypertension and atherosclerosis. Dal Palù C. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S89–92 (38 ref.)

Murine models of Chlamydia pneumoniae infection and atherosclerosis. Moazed TC, et al. **J Infect Dis** 1997 Apr; 175(4):883–90

Transplantation atherosclerosis [editorial] Fellström B. **J Intern Med** 1996 Nov;240(5):253–7

The emergence of mouse models of atherosclerosis and their relevance to clinical research. Smith JD, et al. **J Intern Med** 1997 Aug;242(2):99–109 (99 ref.)

Modification of human LDL by in vitro incubation with cigarette smoke or copper ions: implications for allergies, asthma and atherosclerosis. Vruwink KG, et al. **J Investig Allergol Clin Immunol** 1996 Sep–Oct; 6(5):294–300

Endotoxin: possible roles in initiation and development of atherosclerosis. Liao W. **J Lab Clin Med** 1996 Nov; 128(5):452–60 (101 ref.)

Lipoprotein lipase and lipolysis: central roles in lipoprotein metabolism and atherogenesis. Goldberg IJ. **J Lipid Res** 1996 Apr;37(4):693–707 (163 ref.)

Perindopril treatment prevents the loss of endothelial nitric oxide function and development of neo-intima in rabbits. Hickey H, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1985–94

Atherosclerosis resistance in rats correlates with lack of expansion of an immature smooth muscle cell population [see comments] Amore B, et al. **J Vasc Res** 1996 Nov–Dec; 33(6):442–53. Comment in: J Vasc Res 1997 Jul-Aug;34(4):321–3.

Inflammation as an early component of atherosclerosis and vascular damage--a role for P-selectin and platelet-activating factor. Prescott SM, et al. **Jpn Circ J** 1996 Mar;60(3):137–41 (26 ref.)

Does iron cause atherosclerosis? Meyers DG. **Kans Med** 1995 Winter;96(4):178–9

Impact of nitric oxide on renal hemodynamics and glomerular function: modulation by atherogenic lipoproteins? Galle J, et al. **Kidney Blood Press Res** 1996;19(1):2–15 (180 ref.)

Atherosclerosis and arteriosclerosis in chronic renal failure [editorial] London GM, et al. **Kidney Int** 1997 Jun; 51(6):1678–95 (196 ref.)

Homocysteinemia and vascular disease in end-stage renal disease. Dennis VW, et al. **Kidney Int Suppl** 1996 Dec; 57:S11–7 (59 ref.)

Acceleration of atherosclerotic lesions in transgenic mice with hypertension by the activated renin-angiotensin system. Sugiyama F, et al. **Lab Invest** 1997 Jun;76(6):835–42

Oryzanol decreases cholesterol absorption and aortic fatty streaks in hamsters. Rong N, et al. **Lipids** 1997 Mar; 32(3):303–9

Antiphospholipid antibodies and atherosclerosis. Vaarala O. **Lupus** 1996 Oct;5(5):442–7 (48 ref.)

A focal stress gradient-dependent mass transfer mechanism for atherogenesis in branching arteries. Lei M, et al. **Med Eng Phys** 1996 Jun;18(4):326–32

A unifying theory of atherogenesis. Sloop GD. **Med Hypotheses** 1996 Oct;47(4):321–5 (35 ref.)

The elusive local factor in atherosclerosis. Stehbens WE. **Med Hypotheses** 1997 Jun;48(6):503–9 (55 ref.)

Premature atherosclerosis in familial chylomicronemia [letter; comment] Pedro-Botet J, et al. **N Engl J Med** 1997 Apr 3;336(14):1026–7; discussion 1027. Comment on: N Engl J Med 1996 Sep 19;335(12):848–54.

Site-specific modification of apolipoprotein B by advanced glycosylation end-products: implications for lipoprotein clearance and atherogenesis. Bucala R. **Nephrol Dial Transplant** 1996;11 Suppl 5:17–9 (20 ref.)

Extra- and intracellular localization of advanced glycation end-products in human atherosclerotic lesions. Horiuchi S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:81–6 (36 ref.)

The role of advanced glycosylation end-products in the pathogenesis of atherosclerosis. Makita Z, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:31–3 (14 ref.)

Childhood nutrition and adult cardiovascular disease. McGill HC. **Nutr Rev** 1997 Jan;55(1 Pt 2):S2–8; discussion S8–11 (54 ref.)

Antiatherogenic properties of zinc: implications in endothelial cell metabolism. Hennig B, et al. **Nutrition** 1996 Oct; 12(10):711–7 (90 ref.)

Lipoproteins in heart disease. Basile-Borgia A, et al. **Perfusion** 1996 Jul;11(4):338–45 (24 ref.)

Fibrinogen and fibrinolytic activity in CAPD patients with atherosclerosis and its correlation with serum albumin. Kim KJ, et al. **Perit Dial Int** 1997 Mar-Apr;17(2):157–61

Is CAPD atherogenic? [editorial] Siamopoulos KC, et al. **Perit Dial Int** 1997 May-Jun;17(3):227–31 (61 ref.)

Cholesterol crystals, smooth muscle cells and new data on the genesis of atherosclerosis. Kiyak JH. **Pol J Pathol** 1997; 48(1):49–55

Atherosclerosis as a microvascular disease: impaired angiogenesis mediated by suppressed basic fibroblast growth factor expression. Chen CH, et al. **Proc Assoc Am Physicians** 1997 Jul;109(4):351–61 (59 ref.)

Psychosocial factors, sex differences, and atherosclerosis: lessons from animal models. Kaplan JR, et al.

Psychosom Med 1996 Nov-Dec;58(6):598-611 (126 ref.)
Chlamydia pneumoniae and atherosclerosis--an update. Saikku P. **Scand J Infect Dis Suppl** 1997;104:53-6 (41 ref.)
Evidence that endogenous heparin activity deficiency may be an important factor in atherogenesis. Engelberg H. **Semin Thromb Hemost** 1997;23(2):159-66 (86 ref.)
Smoking, haemostatic factors and the severity of aorto-iliac and femoro-popliteal disease. Smith FB, et al. **Thromb Haemost** 1996 Jan;75(1):19-24
Embolism from the aortic arch in patients with cerebral ischemia. Kessler C, et al. **Thromb Res** 1996 Nov 1; 84(3):145-55
Oxidized LDL, T lymphocytes, and graft atherosclerosis. Caspar-Bauguil S, et al. **Transplant Proc** 1997 Aug; 29(5):2328-9
Chronic rejection and graft arteriosclerosis: 4 years after the Alexis Carrel proposal on diagnostic criteria. Paul LC, et al. **Transplant Proc** 1997 Sep;29(6):2628-9 (28 ref.)
[The role of the oxidative modification of LDL in the pathogenesis of atherosclerosis] Gudev A. **Mol Med (Sofia)** 1996;1(1):31-8 (44 ref.) **(Bul)**
[Microalbuminuria as predictor of atherosclerotic cardiovascular disease in IDDM] Deckert T, et al. **Ugeskr Laeger** 1997 May 12;159(20):3010-4 (Eng. Abstr.) **(Dan)**
[Atherosclerosis and cardio-vascular complications of diabetes] Capron L. **Ann Endocrinol (Paris)** 1996; 57(3):161-5 (40 ref.) (Eng. Abstr.) **(Fre)**
[Hyperhomocysteinemia, atherosclerosis and arterial and venous thrombosis] Cacoub P, et al. **Ann Med Interne (Paris)** 1996;147(5):352-60 (70 ref.) **(Fre)**
[Evaluation of atherogenic risk in homozygous sickle cell disease: study of lipid and apolipoprotein AI and B plasma levels] Monnet PD, et al. **Bull Soc Pathol Exot** 1996; 89(4):278-81 (Eng. Abstr.) **(Fre)**
[Rupture to the skin of atheromatous aneurysm on a femoropopliteal venous bypass using an in situ vein] Fukui S, et al. **Presse Med** 1996 Nov 9;25(34):1631-2 (Eng. Abstr.) **(Fre)**
[Hyperhomocysteinemia: risk factor for premature atheromatosis] Wautrecht JC. **Rev Med Brux** 1997 Jun; 18(3):103-6 (11 ref.) (Eng. Abstr.) **(Fre)**
[Morphological aspects of the effect of magnesium orotate therapy on changes in the vascular walls induced by cholesterol-rich diet] Jellinek H, et al. **Orv Hetil** 1997 Sep 7;138(36 Suppl 2):2276-80 (Eng. Abstr.) **(Hun)**
[Risk factors, ageing, and asymptomatic carotid plaque] Novo S, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):263-72 **(Ita)**
[Products of advanced glycosylation and the pathogenesis of accelerated atherosclerosis in diabetes] Basta G, et al. **G Ital Cardiol** 1996 Jun;26(6):699-719 (122 ref.) (Eng. Abstr.) **(Ita)**
[Atherosclerosis in childhood: the role of obesity] Sarni P, et al. **Pediatr Med Chir** 1997 May-Jun;19(3):183-6 (Eng. Abstr.) **(Ita)**
[Case of thrombotic-occlusive type dissecting aneurysm appeared during the course of thoracic aortic aneurysm] Fukushima S, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10;85(1):118-20 **(Jpn)**
[Atherosclerosis in subjects with mild hyperglycemia] Yamasaki Y, et al. **Nippon Rinsho** 1996 Oct;54(10):2700-3 (4 ref.) (Eng. Abstr.) **(Jpn)**
[Diabetes and atherosclerosis] Okeda T. **Rinsho Byori** 1996 Nov;44(11):1027-30 (Eng. Abstr.) **(Jpn)**
[Significance of the coagulation and fibrinolytic parameters as predictors for carotid atherosclerosis] Nomura E, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):741-5 (Eng. Abstr.) **(Jpn)**
[150 years of investigation of atherosclerosis--present status and perspectives] Naruszewicz M. **Pol Arch Med Wewn** 1997;97 Spec No:37-45 (26 ref.) **(Pol)**
[Diabetes mellitus as a risk factor for atherosclerosis--a reminder of the facts] Czech A, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):46-8 (22 ref.) (Eng. Abstr.) **(Pol)**
[Selected directions for evaluating pathogenesis of atherosclerosis in a population of patients with diabetes] Przybyś W. **Pol Merkuriusz Lek** 1997 Jan;2(7):52-6 (40 ref.) **(Pol)**
[Lipids and atherosclerosis] Gmiński J. **Wiad Lek** 1996; 49(7-12):153-8 (0 ref.) (Eng. Abstr.) **(Pol)**
[Virus-induced morphological changes in arterial vessels of rabbits with herpetic keratoconjunctivitis and in patients with generalized herpetic infection] Amvros'eva TV, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):702-6 **(Rus)**
[Some factors of atherosclerosis risk in obese youths] Gurevich VS, et al. **Klin Med (Mosk)** 1996;74(4):49-50 (Eng. Abstr.) **(Rus)**
[Chronic insulin overdosage, hyperinsulinemia, atherosclerosis] Krasil'nikova EI, et al. **Klin Med (Mosk)** 1996;74(8):40-3 (Eng. Abstr.) **(Rus)**
[The phenomenon of focal sympathetic denervation of the major vessels in the development of atherosclerosis] Shvalev VN, et al. **Morfologiia** 1996;110(4):102-4 (Eng. Abstr.) **(Rus)**
[Biochemical aspects of atherogenesis: the role of antioxidants] Dmitriev LF. **Ter Arkh** 1995;67(12):73-7 (67 ref.) **(Rus)**
[Endothelial dysfunction--an important stage in the development of atherosclerotic vascular lesions (a review of the literature--1)] Ivanova OV, et al. **Ter Arkh** 1997; 69(6):75-8 (37 ref.) **(Rus)**
[The pathogenetic problems of atherosclerosis: the regional aspects] Oteva EA, et al. **Ter Arkh** 1997;69(1):20-2 (27 ref.) **(Rus)**
[Adaptation to exercises after exposure to restriction stress] Inchina VI, et al. **Vestn Ross Akad Med Nauk** 1996; (9):18-20 (Eng. Abstr.) **(Rus)**
[Risk of cardiovascular complications in patients with type II diabetes mellitus in relation to serum triacylglycerols] Habán P. **Bratisl Lek Listy** 1997 Mar;98(3):158-62 (Eng. Abstr.) **(Slo)**

GENETICS

Alcohol feeding impedes early atherosclerosis in low-density lipoprotein receptor knockout mice: factors in addition to high-density lipoprotein-apolipoprotein A1 are involved. Dai J, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):11-8
Expression of very low density lipoprotein receptor mRNA in rabbit atherosclerotic lesions. Nakazato K, et al. **Am J Pathol** 1996 Dec;149(6):1831-8
Role of macrophage colony-stimulating factor in atherosclerosis: studies of osteopetrotic mice. Qiao JH, et al. **Am J Pathol** 1997 May;150(5):1687-99
Atherosclerosis and the mouse: a decade of experience. Plump A. **Ann Med** 1997 Jun;29(3):193-8 (48 ref.)
Expression of fibrinolytic genes in tissues from human atherosclerotic aneurysms and from obese mice. Samad F, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:350-8; discussion 358-60 (68 ref.)
Polymorphism of the apolipoprotein E gene and early carotid atherosclerosis defined by ultrasonography in asymptomatic adults. Cattin L, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):91-4
Effect of probucol treatment on gene expression of VCAM-1, MCP-1, and M-CSF in the aortic wall of LDL receptor-deficient rabbits during early atherogenesis. Fruebis J, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul; 17(7):1289-302
Angiotensin-converting enzyme gene and atherosclerosis. Krege JH, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul; 17(7):1245-50
Cellular radiosensitivity, radioresistant DNA synthesis, and defect in radioinduction of p53 in fibroblasts from atherosclerosis patients. Nasrin N, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):947-53
Instability at the H-ras minisatellite in human atherosclerotic plaques. Kiaris H, et al. **Atherosclerosis** 1996 Aug 23; 125(1):47-51
Antioxidant enzymes and atherosclerosis in Japanese quail: heritability and genetic correlation estimates. Cheng KM, et al. **Can J Cardiol** 1997 Jul;13(7):669-76
Cytogenetic aspects of cell proliferation in atherosclerotic plaques. Matturri L, et al. **Cardiologia** 1997 Aug;42(8):833-6
Lack of mutations in K-ras codons 12 and 13 in human atherosclerotic lesions. Bogliolo M, et al. **Chem Biol Interact** 1996 Sep 27;102(1):55-62
Small genetic effects in complex diseases: a review of regulatory sequence variants in dyslipoproteinemia and atherosclerosis. Hegele RA. **Clin Biochem** 1997 Apr; 30(3):183-8 (56 ref.)
Genetic determinants of atherosclerosis-related dyslipidemias and their clinical implications. Galton DJ. **Clin Chim Acta** 1997 Jan 17;257(2):181-97
The atherogenic lipoprotein phenotype is not caused by a mutation in the coding region of the low density lipoprotein receptor gene. Naggert JK, et al. **Clin Genet** 1997 Apr; 51(4):236-40
Deletion polymorphism in angiotensin converting enzyme gene associated with carotid wall thickening in a healthy male population. Pujia A, et al. **Coron Artery Dis** 1996 Jan;7(1):51-5
Upregulation of IGF-I and collagen I mRNA in human atherosclerotic tissue is not accompanied by changes in type 1 IGF receptor or collagen III mRNA: an in situ hybridization study. Wilson VJ, et al. **Coron Artery Dis** 1996 Aug;7(8):569-72
Candidate genes, small effects, and the prediction of atherosclerosis. Hegele RA. **Crit Rev Clin Lab Sci** 1997 Aug;34(4):343-67 (91 ref.)
Genetics and molecular biology [editorial] Chan L, et al. **Curr Opin Lipidol** 1997 Apr;8(2):57-9
Genetics and molecular biology [editorial] Chan L, et al. **Curr Opin Lipidol** 1996 Apr;7(2):57-8
Atherosclerosis: cell biology and lipoproteins [editorial] Karpe F. **Curr Opin Lipidol** 1996 Apr;7(2):U65-70
Regulatory mutations in human lipoprotein disorders and atherosclerosis. Kontula K, et al. **Curr Opin Lipidol** 1996 Apr;7(2):64-8 (28 ref.)
Genetics and molecular biology [editorial] Ochoa A, et al. **Curr Opin Lipidol** 1997 Apr;8(2):U18-9 (10 ref.)
How to tackle genetic loci predisposing to atherosclerosis? Pajukanta P, et al. **Curr Opin Lipidol** 1997 Apr;8(2):95-100 (39 ref.)
Genetics and molecular biology [editorial] Seedorf U. **Curr Opin Lipidol** 1996 Apr;7(2):U44-8
Atherosclerosis: cell biology and lipoproteins [editorial] Stocks J. **Curr Opin Lipidol** 1997 Aug;8(4):U56-7
Insulin sensitivity and abdominal obesity in African-American, Hispanic, and non-Hispanic white men and women. The Insulin Resistance and Atherosclerosis Study. Karter AJ, et al. **Diabetes** 1996 Nov;45(11):1547-55
Aortic atherosclerosis in diabetes mellitus is associated with an insertion/deletion polymorphism in the angiotensin I-converting enzyme gene. No relation between the polymorphism and aortic collagen content. Rasmussen LM, et al. **Diabetologia** 1996 Jun;39(6):696-700
HindIII DNA polymorphism in the lipoprotein lipase gene and plasma lipid phenotypes and carotid artery atherosclerosis. Chen L, et al. **Hum Genet** 1996 Nov; 98(5):551-6
Genetic analysis of atherosclerosis: a research paradigm for the common chronic diseases. Boerwinkle E, et al. **Hum Mol Genet** 1996;5 Spec No:1405-10 (52 ref.)
Angiotensin-converting enzyme gene I/D polymorphism and carotid plaques in Japanese. Watanabe Y, et al. **Hypertension** 1997 Sep;30(3 Pt 2):569-73
The genetic basis of atherosclerosis. Hegele RA. **Int J Clin Lab Res** 1997;27(1):2-13 (104 ref.)
Targeted replacement of the mouse apolipoprotein E gene with the common human APOE3 allele enhances diet-induced hypercholesterolemia and atherosclerosis. Sullivan PM, et al. **J Biol Chem** 1997 Jul 18; 272(29):17972-80
Reduced aortic lesions and elevated high density lipoprotein levels in transgenic mice overexpressing mouse apolipoprotein A-IV. Cohen RD, et al. **J Clin Invest** 1997 Apr 15;99(8):1906-16
Absence of P-selectin delays fatty streak formation in mice. Johnson RC, et al. **J Clin Invest** 1997 Mar 1;99(5):1037-43
Macrophage-mediated 15-lipoxygenase expression protects against atherosclerosis development. Shen J, et al. **J Clin Invest** 1996 Nov 15;98(10):2201-8
Susceptibility to atherosclerosis in mice expressing exclusively apolipoprotein B48 or apolipoprotein B100. Véniant MM, et al. **J Clin Invest** 1997 Jul 1;100(1):180-8
Association between angiotensin converting enzyme gene polymorphism and carotid atherosclerosis. Kauma H, et al. **J Hypertens** 1996 Oct;14(10):1183-7
Cholesterol 7alpha-hydroxylase influences the expression of hepatic apoA-I in two inbred mouse strains displaying different susceptibilities to atherosclerosis and in hepatoma cells. Dueland S, et al. **J Lipid Res** 1997 Jul;38(7):1445-53
Lipoprotein changes in relation to body mass index in Native American adolescents. Blackett PR, et al. **Pediatr Res** 1996 Jul;40(1):77-81
Dyslipoproteinaemia in children with or without family history of premature myocardial infarction. Rašlová K, et al. **Physiol Res** 1995;44(6):429-32
Dramatically decreased high density lipoprotein cholesterol, increased remnant clearance, and insulin hypersensitivity in apolipoprotein A-II knockout mice suggest a complex role for apolipoprotein A-II in atherosclerosis susceptibility. Weng W, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14788-94
Plasminogen deficiency accelerates vessel wall disease in mice predisposed to atherosclerosis. Xiao Q, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10335-40
The identification and significance of a Thr-->Pro polymorphism in kringle IV type 8 of apolipoprotein(a). Prins J, et al. **Thromb Haemost** 1997 May;77(5):949-54
Thrombosis in the young: effect of atherosclerotic risk factors on the risk of myocardial infarction associated with prothrombotic factors. Siscovick DS, et al. **Thromb Haemost** 1997 Jul;78(1):7-12 (46 ref.)
[Familial hyperhomocysteinemia with early development of atherosclerosis] Domagała TB, et al. **Pol Arch Med Wewn** 1996 Oct;96(4):354-8 (Eng. Abstr.) **(Pol)**
[Genetic cardiovascular risk factors] García Fuentes M, et al. **An Esp Pediatr** 1997 Jan;46(1):3-7 (30 ref.) **(Spa)**
[The genetic bases of the lipid metabolic disorders in atherosclerosis] Tseliko VI. **Tsitol Genet** 1996 Mar-Apr; 30(2):74-82 (56 ref.) (Eng. Abstr.) **(Ukr)**

HISTORY

[Atherosclerosis and ischemic heart disease. Short historical notes] Treviño-Treviño AJ. **Gac Med Mex** 1996 Jul-Aug; 132(4):425-9 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Lymphocyte subsets in severe atherosclerosis before revascularization [letter] Clerc G, et al. **Ann Intern Med** 1997 Jun 15;126(12):1004-5
Role of T lymphocytes in the pathogenesis of atherosclerosis: animal studies using athymic nude rats. Haraoka S, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:515-8
Epitope specificity of anti-heat shock protein 65/60 serum antibodies in atherosclerosis. Metzler B, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):536-41
Immunological response to oxidized LDL. Witztum JL. **Atherosclerosis** 1997 Jun;131 Suppl:S9-11 (11 ref.)
Regulation of matrix metalloproteinase expression in human vascular smooth muscle cells by T lymphocytes: a role for CD40 signaling in plaque rupture? Schönbeck U, et al. **Circ Res** 1997 Sep;81(3):448-54
Emerging cross-regulatory roles of immunity and autoimmunity in atherosclerosis. George J, et al. **Immunol Res** 1996;15(4):315-22 (42 ref.)
CD40-CD40L interactions in atherosclerosis. Laman JD, et al. **Immunol Today** 1997 Jun;18(6):272-7 (31 ref.)
Additive effect of diabetes and systemic hypertension on the immune mechanisms of atherosclerosis. Mantov S, et al.

Int J Cardiol 1996 Oct 11;56(2):145–8
Inflammatory and immunological nature of atherosclerosis. Watanabe T, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S51–60 (55 ref.)
Atheroarteritis: a combined immunological and lipid imbalance. Wissler RW, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S37–49 (126 ref.)
Participation of T lymphocytes and macrophages in atherogenesis. Shimokama T, et al. **J Atheroscler Thromb** 1994;1 Suppl 1:S14–20
IFN-gamma potentiates atherosclerosis in ApoE knock-out mice. Gupta S, et al. **J Clin Invest** 1997 Jun 1; 99(11):2752–61
Isolated coronary artery transplantation in pigs: a new model to study transplantation arteriosclerosis and humoral rejection. Tixier DB, et al. **J Heart Lung Transplant** 1996 Sep;15(9):919–27
AM-3K, a novel monoclonal antibody allegedly specific for tissue macrophages, also reacts with vascular endothelial cells in the atherosclerotic plaque [letter] Beranek JT. **J Pathol** 1996 Dec;180(4):460–1
A role for macrophage scavenger receptors in atherosclerosis and susceptibility to infection. Suzuki H, et al. **Nature** 1997 Mar 20;386(6622):292–6
Both acute phase and constitutive serum amyloid A are present in atherosclerotic lesions. Yamada T, et al. **Pathol Int** 1996 Oct;46(10):797–800
Vascular dendritic cells and atherosclerosis. Bobryshev YV, et al. **Pathol Res Pract** 1996 May;192(5):462–7
T and B lymphocytes play a minor role in atherosclerotic plaque formation in the apolipoprotein E-deficient mouse. Dansky HM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4642–6
Prothrombin-related antigens in human aortic intima. Smith EB, et al. **Semin Thromb Hemost** 1996;22(4):347–50
Graft arteriosclerosis: molecular features of macrophage activation. Russell ME. **Transplant Proc** 1997 Sep; 29(6):2542–3
[Atherogenesis and immune inflammation] Nagornev VA. **Biull Eksp Biol Med** 1996 Jul;122(7):4–8 (27 ref.) **(Rus)**
[Vascular immune reactions in arteritis and atherosclerosis. Receptors for endothelial adhesion] Hansson G. **Lakartidningen** 1997 Mar 5;94(10):852–4 (20 ref.) **(Swe)**

METABOLISM

VCAM-1 expression and network of VCAM-1 positive vascular dendritic cells in advanced atherosclerotic lesions of carotid arteries and aortas. Bobryshev YV, et al. **Acta Histochem** 1996 Apr;98(2):185–94
Collagen subtypes III and IV expression in human vein graft atherosclerosis. Denning SM, et al. **Am J Cardiol** 1996 Sep 15;78(6):691–4
Vascular endothelial growth factor/vascular permeability factor (VEGF/VPF) in normal and atherosclerotic human arteries. Couffinhal T, et al. **Am J Pathol** 1997 May; 150(5):1673–85
Expression of very low density lipoprotein receptor mRNA in rabbit atherosclerotic lesions. Nakazato K, et al. **Am J Pathol** 1996 Dec;149(6):1831–8
Trace elements, atherosclerosis, and abdominal aneurysms. Klevay LM. **Ann N Y Acad Sci** 1996 Nov 18;800:239–42 (31 ref.)
Thrombin activates NF-kappa B through thrombin receptor and results in proliferation of vascular smooth muscle cells: role of thrombin in atherosclerosis and restenosis. Maruyama I, et al. **Ann N Y Acad Sci** 1997 Apr 15; 811:429–36
Involvement of selectins in atherogenesis: a primary or secondary event? Miyasaka M, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:25–34; discussion 34–5 (19 ref.)
Identification of uric acid in aortic aneurysms and atherosclerotic artery. Patetsios P, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:243–5
Atherogenesis and advanced glycation: promotion, progression, and prevention. Stitt AW, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:115–27; discussion 127–9 (56 ref.)
Cholesteryl ester transfer protein and atherogenesis. Tall A, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:178–82; discussion 182–4 (23 ref.)
The role of oxidized LDL in atherogenesis: immunological response and anti-phospholipid antibodies. Witztum JL, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:88–96; discussion 96–9 (27 ref.)
Macrophages isolated from human atherosclerotic plaques produce IL-8, and oxysterols may have a regulatory function for IL-8 production. Liu Y, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):317–23
Increased immunolocalization of paraoxonase, clusterin, and apolipoprotein A-I in the human artery wall with the progression of atherosclerosis. Mackness B, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1233–8
In vivo transfer of lipoprotein(a) into human atherosclerotic carotid arterial intima. Nielsen LB, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):905–11
Ischemia-induced transplant arteriosclerosis in the rat. Induction of peptide growth factor expression. Waltenberger J, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1516–23
In vitro and in situ magnetic resonance imaging signal features of atherosclerotic plaque-associated lipids. Yuan C, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug; 17(8):1496–503
Ubiquitin expression in atherosclerotic lesions of wistar fatty and wistar lean rats. Igarashi M, et al. **Artery** 1994; 21(5):256–70
Collagen-synthesizing cells in initial and advanced atherosclerotic lesions of human aorta. Andreeva ER, et al. **Atherosclerosis** 1997 Apr;130(1–2):133–42
Formation of Birbeck granule-like structures in vascular dendritic cells in human atherosclerotic aorta. Lag-antibody to epidermal Langerhans cells recognizes cells in the aortic wall. Bobryshev YV, et al. **Atherosclerosis** 1997 Sep;133(2):193–202
Costimulatory molecules in human atherosclerotic plaques: an indication of antigen specific T lymphocyte activation. de Boer OJ, et al. **Atherosclerosis** 1997 Sep;133(2):227–34
Monocyte/macrophage recruitment and expression of endothelial adhesion proteins in human atherosclerotic lesions. Duplàa C, et al. **Atherosclerosis** 1996 Apr 5; 121(2):253–66
Endothelin-1 is increased overlying atherosclerotic plaques in human arteries [published erratum appears in Atherosclerosis 1996 Oct 25;126(2):345–6] Jones GT, et al. **Atherosclerosis** 1996 Jul;124(1):25–35
Vitamin E levels in human atherosclerotic plaque: the influence of risk factors. Killion SL, et al. **Atherosclerosis** 1996 Oct 25;126(2):289–97
Detection and localization of tumor necrosis factor-alpha in WHHL rabbit arteries. Lei X, et al. **Atherosclerosis** 1996 Aug 23;125(1):81–9
Transfer of low density lipoprotein into the arterial wall and risk of atherosclerosis. Nielsen LB. **Atherosclerosis** 1996 Jun;123(1–2):1–15 (102 ref.)
Differential expression of nonmuscle myosin II isoforms in human atherosclerotic plaque. Nikol S, et al. **Atherosclerosis** 1997 Apr;130(1–2):71–85
Interleukin-6 and interleukin-8 protein and gene expression in human arterial atherosclerotic wall. Rus HG, et al. **Atherosclerosis** 1996 Dec 20;127(2):263–71
Interaction of endothelial cells and fibroblasts with modified fibrin networks: role in atherosclerosis. Shats EA, et al. **Atherosclerosis** 1997 Feb 28;129(1):9–15
Properties of low density lipoproteins relevant to oxidative modifications change paradoxically during aging. Stulnig TM, et al. **Atherosclerosis** 1996 Sep 27;126(1):85–94
Isolation and characterization of a proteoglycan variant from human aorta exhibiting a marked affinity for low density lipoprotein and demonstration of its enhanced expression in atherosclerotic plaques. Vijayagopal P, et al. **Atherosclerosis** 1996 Dec 20;127(2):195–203
Iron in human atheroma and LDL oxidation by macrophages following erythrophagocytosis. Yuan XM, et al. **Atherosclerosis** 1996 Jul;124(1):61–73
Cholesterol-dependent changes of glycosaminoglycan pattern in human aorta. Kruse R, et al. **Basic Res Cardiol** 1996 Sep-Oct;91(5):344–52
Nitrotyrosine bound to beta-VLDL-apoproteins: a biomarker of peroxynitrite formation in experimental atherosclerosis. Moriel P, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):332–5
Multiple growth factors are associated with lesions of atherosclerosis: specificity or redundancy? Raines EW, et al. **Bioessays** 1996 Apr;18(4):271–82 (70 ref.)
Does (anti) growth factor intervention in the mechanism scheme of atheroma offer us a synthetic simplification or more chaotic complexity? [editorial] Mathé G. **Biomed Pharmacother** 1996;50(6–7):233–4 (13 ref.)
Plasma protein entry and retention in the vascular wall: possible factors in atherogenesis. Lever MJ, et al. **Can J Physiol Pharmacol** 1996 Jul;74(7):818–23
Localisation and differential expression of the fibroblast growth factor receptor (FGFR) multigene family in normal and atherosclerotic human arteries. Hughes SE. **Cardiovasc Res** 1996 Sep;32(3):557–69
Elevation of macrophage SeGSHPx gene expression prevents from its formation of foam cell and inhibits atherogenesis. Chen Y, et al. **Chin Med J (Engl)** 1996 Jan;109(1):51–4 (17 ref.)
Residence time of low-density lipoprotein in the normal and atherosclerotic rabbit aorta. Tozer EC, et al. **Circ Res** 1997 Feb;80(2):208–18
Arterial thrombin activity after angioplasty in an atherosclerotic rabbit model: time course and effect of hirudin. Barry WL, et al. **Circulation** 1996 Jul 1;94(1):88–93
Collagen content is significantly lower in restenotic versus nonrestenotic vessels after balloon angioplasty in the atherosclerotic rabbit model. Coats WD Jr, et al. **Circulation** 1997 Mar 4;95(5):1293–300
Mechanical pressure and stretch release endothelin-1 from human atherosclerotic coronary arteries in vivo. Hasdai D, et al. **Circulation** 1997 Jan 21;95(2):357–62
Angiotensin-converting enzyme inhibition prevents arterial nuclear factor-kappa B activation, monocyte chemoattractant protein-1 expression, and macrophage infiltration in a rabbit model of early accelerated atherosclerosis. Hernández-Presa M, et al. **Circulation** 1997 Mar 18;95(6):1532–41
Mast cells in rupture-prone areas of human coronary atheromas produce and store TNF-alpha. Kaartinen M, et al. **Circulation** 1996 Dec 1;94(11):2787–92
Identification of active tissue factor in human coronary atheroma. Marmur JD, et al. **Circulation** 1996 Sep 15; 94(6):1226–32
Human connective tissue growth factor is expressed in advanced atherosclerotic lesions. Oemar BS, et al. **Circulation** 1997 Feb 18;95(4):831–9
HDL heterogeneity and atherosclerosis. Tailleux A, et al. **Crit Rev Clin Lab Sci** 1996 Jun;33(3):163–201 (168 ref.)
Pharmacology of apolipoprotein A-I. Andersson LO. **Curr Opin Lipidol** 1997 Aug;8(4):225–8 (18 ref.)
Mast cells in human fatty streaks and atheromas: implications for intimal lipid accumulation. Kovanen PT. **Curr Opin Lipidol** 1996 Oct;7(5):281–6 (35 ref.)
Macrophages and atherosclerotic plaque stability. Libby P, et al. **Curr Opin Lipidol** 1996 Oct;7(5):330–5 (45 ref.)
Cell death in atherosclerotic plaques. Mitchinson MJ, et al. **Curr Opin Lipidol** 1996 Oct;7(5):324–9 (67 ref.)
Modification of macrophage function and effects on atherosclerosis. Murakami T, et al. **Curr Opin Lipidol** 1996 Oct;7(5):320–3 (24 ref.)
Atherogenic lipoproteins and human disease: extending concepts beyond the heart to the kidney. Kamanna VS, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):205–11 (57 ref.)
Cholesterol is the major atherogenic lipid in NIDDM. Betteridge D. **Diabetes Metab Rev** 1997 Jun;13(2):99–104 (29 ref.)
Triglyceride is the major atherogenic lipid in NIDDM. Taskinen MR. **Diabetes Metab Rev** 1997 Jun;13(2):93–8 (31 ref.)
Effects of troglitazone on in vitro oxidation of LDL and HDL induced by copper ions and endothelial cells. Cominacini L, et al. **Diabetologia** 1997 Feb;40(2):165–72
Interaction of oxidized low density lipoprotein with macrophages in atherosclerosis, and the antiatherogenicity of antioxidants. Aviram M. **Eur J Clin Chem Clin Biochem** 1996 Aug;34(8):599–608 (95 ref.)
Glycated low-density lipoprotein and atherogenesis: the missing link between diabetes mellitus and hypercholesterolaemia? [editorial] Graier WF, et al. **Eur J Clin Invest** 1997 Jun;27(6):457–9 (32 ref.)
Lipid and lipoprotein modification by advanced glycosylation end-products: role in atherosclerosis. Bucala R. **Exp Physiol** 1997 Mar;82(2):327–37 (38 ref.)
Induction of chymase that forms angiotensin II in the monkey atherosclerotic aorta. Takai S, et al. **FEBS Lett** 1997 Jul 21;412(1):86–90
Similarity between naturally occurring modified desialylated, electronegative and aortic low density lipoprotein. Tertov VV, et al. **Free Radic Res** 1996 Oct;25(4):313–9
Accumulation of glycosphingolipids in human atherosclerotic plaque and unaffected aorta tissues. Chatterjee SB, et al. **Glycobiology** 1997 Feb;7(1):57–65
Immunohistochemical detection of platelet derived growth factor (PDGF) in the aortic wall of atherosclerotic rabbits. Agapitos E, et al. **Int Angiol** 1996 Sep;15(3):249–51
Relationships between left hemisphere predominance and disturbances of lipid metabolism in different ethnic groups. Nikolaeva EI, et al. **Int J Cardiol** 1995 Dec;52(3):207–11
Oxidized low-density lipoprotein and atherosclerosis. Devaraj S, et al. **Int J Clin Lab Res** 1996;26(3):178–84 (86 ref.)
Injury-induced alterations in newly synthesized sulphated proteoglycans from rabbit arterial neointima covered by regenerated endothelium. Ismail NA, et al. **Int J Exp Pathol** 1997 Apr;78(2):71–9
The role of inflammation in atherosclerosis. Blum A, et al. **Isr J Med Sci** 1996 Nov;32(11):1059–65 (79 ref.)
Cellular binding and degradation of lipoprotein (a). Fless GM. **J Atheroscler Thromb** 1995;2 Suppl 1:S1–4 (20 ref.)
Immunohistochemical and quantitative analysis of cellular and extracellular components of aortic atherosclerosis in WHHL rabbits. Ito T, et al. **J Atheroscler Thromb** 1994; 1(1):45–52
Genes expressed in monocyte/macrophage cell differentiation and atherosclerotic plaques in WHHL rabbits. Kumabe T, et al. **J Atheroscler Thromb** 1994;1 Suppl 1:S21
Multi-functional aspects of high density lipoprotein as an anti-atherogenic lipoprotein in vivo: evidence from in vitro experiments using macrophages. Miyazaki A, et al. **J Atheroscler Thromb** 1995;2(1):30–6 (34 ref.)
Characterization of vitronectins in atherosclerotic lesions. Mori M, et al. **J Atheroscler Thromb** 1996;3(1):25–31
Accumulation of vitronectin in atherosclerotic lesions where lipids deposited. Sato R, et al. **J Atheroscler Thromb** 1994; 1 Suppl 1:S50–4
Cholesteryl ester accumulation in foam cells and extracellular space of atherosclerotic lesions. Takano T. **J Atheroscler Thromb** 1994;1 Suppl 1:S1–5 (18 ref.)
Altered bile acid metabolism related to atherosclerosis in alloxan diabetic rats. Uchida K, et al. **J Atheroscler Thromb** 1996;3(1):52–8
Local expression of inflammatory cytokines in human atherosclerotic plaques. Wilcox JN, et al. **J Atheroscler Thromb** 1994;1 Suppl 1:S10–3 (22 ref.)
Role of apolipoprotein E in lipoprotein metabolism and in the process of atherosclerosis. Yamada N, et al. **J Atheroscler Thromb** 1995;2 Suppl 1:S29–33
The nuclear factor kappa-B signaling pathway participates in dysregulation of vascular smooth muscle cells in vitro and in human atherosclerosis. Bourcier T, et al. **J Biol Chem** 1997 Jun 20;272(25):15817–24

Mass spectrometric quantification of markers for protein oxidation by tyrosyl radical, copper, and hydroxyl radical in low density lipoprotein isolated from human atherosclerotic plaques. Leeuwenburgh C, et al. **J Biol Chem** 1997 Feb 7;272(6):3520–6

Reactive nitrogen intermediates promote low density lipoprotein oxidation in human atherosclerotic intima. Leeuwenburgh C, et al. **J Biol Chem** 1997 Jan 17; 272(3):1433–6

Modification of apolipoprotein(a) lysine binding site reduces atherosclerosis in transgenic mice. Boonmark NW, et al. **J Clin Invest** 1997 Aug 1;100(3):558–64

Reduced aortic lesions and elevated high density lipoprotein levels in transgenic mice overexpressing mouse apolipoprotein A–IV. Cohen RD, et al. **J Clin Invest** 1997 Apr 15;99(8):1906–16

3-Chlorotyrosine, a specific marker of myeloperoxidase-catalyzed oxidation, is markedly elevated in low density lipoprotein isolated from human atherosclerotic intima. Hazen SL, et al. **J Clin Invest** 1997 May 1;99(9):2075–81

Significant reduction of the antiatherogenic effect of estrogen by long-term inhibition of nitric oxide synthesis in cholesterol-clamped rabbits. Holm P, et al. **J Clin Invest** 1997 Aug 15;100(4):821–8

Absence of P-selectin delays fatty streak formation in mice. Johnson RC, et al. **J Clin Invest** 1997 Mar 1;99(5):1037–43

Rabbit aorta and human atherosclerotic lesions hydrolyze the sphingomyelin of retained low-density lipoprotein. Proposed role for arterial-wall sphingomyelinase in subendothelial retention and aggregation of atherogenic lipoproteins. Schissel SL, et al. **J Clin Invest** 1996 Sep 15; 98(6):1455–64

150-kD oxygen-regulated protein is expressed in human atherosclerotic plaques and allows mononuclear phagocytes to withstand cellular stress on exposure to hypoxia and modified low density lipoprotein. Tsukamoto Y, et al. **J Clin Invest** 1996 Oct 15;98(8):1930–41

Endothelial prostaglandin and nitric oxide synthesis in atherogenesis and thrombosis. Wu KK. **J Formos Med Assoc** 1996 Sep;95(9):661–6 (41 ref.)

A novel technique for mapping the lipid composition of atherosclerotic fatty streaks by en face fluorescence microscopy. Klinkner AM, et al. **J Histochem Cytochem** 1997 May;45(5):743–53

Soluble adhesion molecule P-selectin and endothelial dysfunction in essential hypertension: implications for atherogenesis? A preliminary report. Lip GY, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1674–8

Oxidation products of cholesteryl linoleate are resistant to hydrolysis in macrophages, form complexes with proteins, and are present in human atherosclerotic lesions. Hoppe G, et al. **J Lipid Res** 1997 Jul;38(7):1347–60

Detection and cellular localization of heparin-binding epidermal growth factor-like growth factor mRNA and protein in human atherosclerotic tissue. Reape TJ, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1639–48

Foam cell apoptosis and the development of the lipid core of human atherosclerosis. Hegyi L, et al. **J Pathol** 1996 Dec;180(4):423–9

Is the phenotypic change in vascular smooth muscle cells a prerequisite for the efficacy of environmental cues as inducers of arterial wall lesions? [letter; comment] Bobik A. **J Vasc Res** 1997 Jul-Aug;34(4):321–3. Comment on: J Vasc Res 1996 Nov-Dec;33(6):442–53.

In situ localization of tissue factor in human atherosclerotic plaques by binding of digoxigenin-labeled factors VIIa and X [published erratum appears in Lab Invest 1997 Feb;76(2):297–9] Thiruvikraman SV, et al. **Lab Invest** 1996 Oct;75(4):451–61

MRI and NMR spectroscopy of the lipids of atherosclerotic plaque in rabbits and humans. Trouard TP, et al. **Magn Reson Med** 1997 Jul;38(1):19–26

Collagen quantitation by video-microdensitometry in rabbit atherosclerosis. Kratky RG, et al. **Matrix Biol** 1996 Jul; 15(2):141–4

X-ray imaging technique for in vitro tissue composition measurements using saline/iodine displacement: experimental verification. Moreau M, et al. **Med Phys** 1997 Mar;24(3):351–60

Immunoreactive macrophage colony-stimulating factor is increased in atherosclerotic lesions of Watanabe heritable hyperlipidemic rabbits after recombinant human macrophage colony-stimulating factor therapy. Donnelly LH, et al. **Mol Reprod Dev** 1997 Jan;46(1):92–5

Site-specific modification of apolipoprotein B by advanced glycosylation end-products: implications for lipoprotein clearance and atherogenesis. Bucala R. **Nephrol Dial Transplant** 1996;11 Suppl 5:17–9 (20 ref.)

Extra- and intracellular localization of advanced glycation end-products in human atherosclerotic lesions. Horiuchi S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:81–6 (36 ref.)

The role of advanced glycosylation end-products in the pathogenesis of atherosclerosis. Makita Z, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:31–3 (14 ref.)

Chemical characterization of peroxidized low-density lipoprotein in plasma and aortic atheroma. Kanazawa T, et al. **Pathobiology** 1996;64(1):18–26

The localization of tissue factor and apolipoprotein(a) in atherosclerotic lesions of the human aorta and their relation to fibrinogen-fibrin transition. Ichikawa K, et al. **Pathol Res Pract** 1996 Mar;192(3):224–32

Increased atherosclerosis in mice reconstituted with apolipoprotein E null macrophages. Fazio S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4647–52

Functional CD40 ligand is expressed on human vascular endothelial cells, smooth muscle cells, and macrophages: implications for CD40-CD40 ligand signaling in atherosclerosis. Mach F, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1931–6

Is a (n inborn) deficiency of prostacyclin synthesis stimulating plasma factor associated with increased lipoprotein(a)? Kritz H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Nov; 55(5):363–72

Antioxidants, atherosclerosis and thrombosis. Rao GH, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Mar; 54(3):155–66 (154 ref.)

Focal expression of intercellular adhesion molecule-1 in the human carotid bifurcation. Endres M, et al. **Stroke** 1997 Jan;28(1):77–82

Bone changes and carotid atherosclerosis in postmenopausal women. Uyama O, et al. **Stroke** 1997 Sep;28(9):1730–2

Cholesterol deposition in atherosclerotic lesions. Kruth HS. **Subcell Biochem** 1997;28:319–62 (273 ref.)

Oxidized lipids in atherogenesis: formation, destruction and action. Berliner J, et al. **Thromb Haemost** 1997 Jul; 78(1):195–9 (34 ref.)

Soluble P-selectin in atherosclerosis: a comparison with endothelial cell and platelet markers. Blann AD, et al. **Thromb Haemost** 1997 Jun;77(6):1077–80

Localization of fibrinolytic activators and inhibitors in normal and atherosclerotic vessels. Falkenberg M, et al. **Thromb Haemost** 1996 Jun;75(6):933–8

Enhanced expression of tissue factor activity in the atherosclerotic aortas of cholesterol-fed rabbits. Kato K, et al. **Thromb Res** 1996 May 15;82(4):335–47

A new butadiene derivative, T-686, inhibits plasminogen activator inhibitor type-1 production in vitro by cultured human vascular endothelial cells and development of atherosclerotic lesions in vivo in rabbits. Vinogradsky B, et al. **Thromb Res** 1997 Feb 15;85(4):305–14

Nitric oxide generation by nitric oxide synthase isoforms in transplanted vessels. Akyürek ML, et al. **Transplant Proc** 1997 Sep;29(6):2571–2 (12 ref.)

Ischemia induced upregulation of growth factor expression in experimental transplant arteriosclerosis. Fellström B, et al. **Transplant Proc** 1997 Sep;29(6):2558

[Distribution and quantification of oxidative low density lipoprotein in the development of atherosclerotic lesions of human aorta] Mao Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):224–7 (Eng. Abstr.) **(Chi)**

[Role of oxidation of lipoproteins in the pathogenesis of atherosclerosis] Picard S. **Pathol Biol (Paris)** 1996 Jan; 44(1):46–50 (35 ref.) (Eng. Abstr.) **(Fre)**

[Localization of collagen-synthesizing cells in normal and atherosclerotic intima of human aorta] Andreeva ER, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):95–7 **(Rus)**

[An unusual pathway of export from the cell of synthesized protein] Klimov AN, et al. **Biull Eksp Biol Med** 1996 Sep; 122(9):268–70 **(Rus)**

[Biochemical aspects of atherogenesis: the role of antioxidants] Dmitriev LF. **Ter Arkh** 1995;67(12):73–7 (67 ref.) **(Rus)**

MICROBIOLOGY

Specificity of detection of Chlamydia pneumoniae in cardiovascular atheroma: evaluation of the innocent bystander hypothesis. Jackson LA, et al. **Am J Pathol** 1997 May;150(5):1785–90

Endovascular presence of Chlamydia pneumoniae in patients with hemodynamically effective carotid artery stenosis. Maass M, et al. **Angiology** 1997 Aug;48(8):699–706

Immunohistochemical detection of Chlamydia pneumoniae in abdominal aortic aneurysms. Juvonen J, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:236–8

Incidence and pathophysiologic significance of infected carotid artery plaque. Paget CJ, et al. **Ann Vasc Surg** 1997 Mar;11(2):129–32

No evidence for the presence of Helicobacter pylori in atherosclerotic plaques in abdominal aortic aneurysm specimens [letter] Blasi F, et al. **Atherosclerosis** 1996 Oct 25;126(2):339–40

Bacteriosclerosis [editorial] MacInnis BJ. **Can J Ophthalmol** 1997 Jun;32(4):217–8 **(Eng, Fre)**

The relation between Chlamydia pneumoniae and atherosclerosis [editorial] Gupta S, et al. **Heart** 1997 Jan; 77(1):7–8

Detection of Chlamydia pneumoniae but not Helicobacter pylori in atherosclerotic plaques of aortic aneurysms. Blasi F, et al. **J Clin Microbiol** 1996 Nov;34(11):2766–9

Infectious agents and atherosclerotic vascular disease. Cook PJ, et al. **QJM** 1996 Oct;89(10):727–35 (127 ref.)

[Chlamydia pneumoniae and atherosclerosis] Andreasen JJ. **Ugeskr Laeger** 1997 Sep 8;159(37):5503–7 (40 ref.) (Eng. Abstr.) **(Dan)**

[Is infection the cause of atherosclerosis? (editorial)] Skinhøj P. **Ugeskr Laeger** 1997 Sep 8;159(37):5499 **(Dan)**

[Chlamydia pneumoniae and atherosclerosis] Marre R, et al. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1092–5 **(Ger)**

MORTALITY

Atherosclerotic cardiovascular mortality during the 1992 riots in Los Angeles. Birnbaum Y, et al. **Am J Cardiol** 1997 Apr 15;79(8):1155–8

An analysis of perioperative surgical mortality and morbidity in the asymptomatic carotid atherosclerosis study [letter; comment] Lownie SP. **Stroke** 1997 Aug;28(8):1648. Comment on: Stroke 1996 Dec;27(12):2216–24.

PATHOLOGY

Impact of local atherosclerotic remodeling on the calculation of percent luminal narrowing. Pasterkamp G, et al. **Am J Cardiol** 1997 Feb 15;79(4):402–5

Licorice extract and its major polyphenol glabridin protect low-density lipoprotein against lipid peroxidation: in vitro and ex vivo studies in humans and in atherosclerotic apolipoprotein E-deficient mice. Fuhrman B, et al. **Am J Clin Nutr** 1997 Aug;66(2):267–75

Association of coronary heart disease incidence with carotid arterial wall thickness and major risk factors: the Atherosclerosis Risk in Communities (ARIC) Study, 1987–1993. Chambless LE, et al. **Am J Epidemiol** 1997 Sep 15;146(6):483–94

Spontaneous rupture of thoracic aorta through an atheromatous plaque: case report and literature review. Ma TK, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):38–42 (15 ref.)

The presence of apoptotic cells in human atherosclerotic lesions [letter; comment] Hegyi L, et al. **Am J Pathol** 1997 Jan;150(1):371–3. Comment on: Am J Pathol 1996 Aug;149(2):367–80.

Monoclonality of smooth muscle cells in human atherosclerosis. Murry CE, et al. **Am J Pathol** 1997 Sep; 151(3):697–705

Pathobiochemistry of combined diabetes and atherosclerosis studied on a novel animal model. The hyperlipemic-hyperglycemic hamster. Simionescu M, et al. **Am J Pathol** 1996 Mar;148(3):997–1014

In vivo aortic wall characteristics at the early stage of atherosclerosis in rabbits. Hironaka K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1142–7

Atheromatous aortic plaque as a cause of resistance to needle passage during transaortic celiac plexus block. Naveira FA, et al. **Anesth Analg** 1996 Dec;83(6):1327–9

Common carotid intima-media thickness as an indicator of atherosclerosis at other sites of the carotid artery. The Rotterdam Study. Bots ML, et al. **Ann Epidemiol** 1996 Mar; 6(2):147–53

Inhibition of neointimal formation by natural heparan sulfate proteoglycans of the arterial wall. Bingley JA, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:238–42; 242–4 (19 ref.)

Hemodynamics, endothelial gene expression, and atherogenesis. Gimbrone MA Jr, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:1–10; discussion 10–1 (60 ref.)

Molecular determinants of atherosclerotic plaque vulnerability. Libby P, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:134–42; discussion 142–5 (33 ref.)

Arteriosclerotic lesions of the distal small coronary artery in cholesterol-fed rabbits differ from those in watanabe heritable-hyperlipidemic rabbits. Nakamura M, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:420–3

Is overamplification of the normal macrophage defensive role critical to lesion development? Raines EW, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:76–85; discussion 85–7 (54 ref.)

Pathology of the radial and internal thoracic arteries used as coronary artery bypass grafts. Kaufer E, et al. **Ann Thorac Surg** 1997 Apr;63(4):1118–22

The role of triglyceride-rich lipoprotein families in the progression of atherosclerotic lesions as determined by sequential coronary angiography from a controlled clinical trial. Alaupovic P, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):715–22

Megakaryocyte ploidy and platelet changes in human diabetes and atherosclerosis. Brown AS, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):802–7

Relation of plaque lipid composition and morphology to the stability of human aortic plaques. Felton CV, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1337–45

Cellular dynamics in early atherosclerotic lesion progression in white carneau pigeons. Spatial and temporal analysis of monocyte and smooth muscle invasion of the intima. Jerome WG, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr; 17(4):654–64

Macrophages isolated from human atherosclerotic plaques produce IL-8, and oxysterols may have a regulatory function for IL-8 production. Liu Y, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):317–23

Do plaques grow upstream or downstream?: an angiographic study in the femoral artery. Smedby O. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):912–8

Water diffusion properties of human atherosclerosis and thrombosis measured by pulse field gradient nuclear magnetic resonance. Toussaint JF, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):542–6

In vitro and in situ magnetic resonance imaging signal features of atherosclerotic plaque-associated lipids. Yuan C, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug; 17(8):1496–503

A comparison of the quantitation of macrophage foam cell

populations and the extent of apolipoprotein E deposition in developing atherosclerotic lesions in young people: high and low serum thiocyanate groups as an indication of smoking. PDAY Research Group. Pathobiological Determinants of Atherosclerosis in Youth. Botti TP, et al. **Atherosclerosis** 1996 Aug 2;124(2):191–202

Modifications induced by atherogenic diet in the capacity of the arterial wall in rats to respond to surgical insult. Buján J, et al. **Atherosclerosis** 1996 May;122(2):141–52

Cell death in human atherosclerotic plaques involves both oncosis and apoptosis. Crisby M, et al. **Atherosclerosis** 1997 Apr;130(1–2):17–27

Prevalence and association of atherosclerosis at three different arterial sites in patients with type III hyperlipoproteinemia. Dobmeyer J, et al. **Atherosclerosis** 1996 Jan 5;119(1):89–98

Localization and activity of tissue factor in human aortic atherosclerotic lesions. Hatakeyama K, et al. **Atherosclerosis** 1997 Sep;133(2):213–9

Different effects of hypertension and hypercholesterolemia on the natural history of aortic atherosclerosis by the stage of intimal lesions. Homma S, et al. **Atherosclerosis** 1997 Jan 3;128(1):85–95

Mast cells accompany microvessels in human coronary atheromas: implications for intimal neovascularization and hemorrhage. Kaartinen M, et al. **Atherosclerosis** 1996 Jun; 123(1–2):123–31

New indices to classify location, severity and progression of calcific lesions in the abdominal aorta: a 25-year follow-up study. Kauppila LI, et al. **Atherosclerosis** 1997 Jul 25;132(2):245–50

Atherosclerosis-prone branch regions in human aorta: microarchitecture and cell composition of intima. Kolpakov V, et al. **Atherosclerosis** 1996 May;122(2):173–89

Effect of age, race, body surface area, heart weight and atherosclerosis on coronary artery dimensions in young males. Litovsky SH, et al. **Atherosclerosis** 1996 Jun; 123(1–2):243–50

Development of an avian model for restenosis. Lucas A, et al. **Atherosclerosis** 1996 Jan 5;119(1):17–41

Induction of human endothelial cell growth by mildly oxidized low density lipoprotein. Maier JA, et al. **Atherosclerosis** 1996 Jun;123(1–2):115–21

Is arterial remodeling truly a compensatory biological reaction? A mechanical deformation hypothesis. Oniki T, et al. **Atherosclerosis** 1997 Jul 11;132(1):115–8

The intima: development and monoclonal responses to injury. Schwartz SM, et al. **Atherosclerosis** 1995 Dec;118 Suppl:S125–40 (125 ref.)

Effects of ultraviolet light in vascular cells in vitro and in intact atherosclerotic explants: potential role of apoptosis in vascular biology. López-Candales A, et al. **Biochem Cell Biol** 1996;74(3):333–45

13C MAS NMR studies of crystalline cholesterol and lipid mixtures modeling atherosclerotic plaques. Guo W, et al. **Biophys J** 1996 Nov;71(5):2857–68

Effect of verapamil on intimal thickening and vascular reactivity in the collared carotid artery of the rabbit. Ustünes L, et al. **Br J Pharmacol** 1996 Aug;118(7):1681–8

Atherosclerotic renal artery stenosis. Scoble JE, et al. **Br J Surg** 1997 Sep;84(9):1188–9

Pathology of acute and chronic ischaemic neuropathy in atherosclerotic peripheral vascular disease. Nukada H, et al. **Brain** 1996 Oct;119 (Pt 5):1449–60

The microcirculation in atherogenesis. Lehr HA, et al. **Cardiovasc Res** 1996 Oct;32(4):781–8 (61 ref.)

Lesion width as a discriminator of plaque characteristics. Ricotta JJ, et al. **Cardiovasc Surg** 1996 Apr;4(2):124–9

Salvage atherectomy: using retrieved tissue to determine the etiology of acute closure. Mayeda GS, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):283–6

Nuclear microprobe applied to the study of coronary artery walls--a distinct look at atherogenesis. Pinheiro T, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Feb;42(1):89–102

Elemental changes in atherosclerotic lesions using nuclear microscopy. Thong PS, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Feb;42(1):103–10

Colocalization of CPP-32 with apoptotic cells in human atherosclerotic plaques. Mallat Z, et al. **Circulation** 1997 Jul 15;96(2):424–8

Angiotensin-converting enzyme inhibitors and atherosclerosis: relevance of animal models to human disease. Fennessy PA, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S30–2 (14 ref.)

Megalodolichobasilaris: the effect of atherosclerosis on a previously weakened arterial wall? De Caro R, et al. **Clin Neuropathol** 1996 Jul–Aug;15(4):187–91 (32 ref.)

Effects of curvature and stenosis-like narrowing on wall shear stress in a coronary artery model with phasic flow. Nosovitsky VA, et al. **Comput Biomed Res** 1997 Feb; 30(1):61–82

The effects of disease severity and sex on coronary endothelium-dependent vasomotor function in an atherosclerotic primate model. Honoré EK, et al. **Coron Artery Dis** 1996 Aug;7(8):579–85

Atherosclerosis: cell biology and lipoproteins [editorial] Daugherty A. **Curr Opin Lipidol** 1997 Feb;8(1):U11–2

Atherosclerosis: cell biology and lipoproteins [editorial] Groves PH. **Curr Opin Lipidol** 1996 Jun;7(3):U99–104 (11 ref.)

Atherosclerosis: cell biology and lipoproteins [editorial] Williams KJ. **Curr Opin Lipidol** 1996 Dec;7(6):U202–8 (26 ref.)

Role of nuclear factor-kappa B in atherogenesis. Brand K, et al. **Exp Physiol** 1997 Mar;82(2):297–304 (26 ref.)

Estimation of the percentage of carotid atheromatous plaque components and investigation of a probable correlation with the neurologic status of the patients. Agapitos E, et al. **Gen Diagn Pathol** 1996 Oct;142(2):105–8

Macrophages, lipid oxidation, ceroid accumulation and alpha-tocopherol depletion in human atherosclerotic lesions. Carpenter KL, et al. **Gerontology** 1995;41 Suppl 2:53–67

Leukocyte-endothelial cell interactions and vascular injury in the earliest preclinical stages of atherosclerosis [letter] Lombardini R, et al. **Haematologica** 1997 Mar–Apr; 82(2):253

Assessing atherosclerotic plaque morphology: comparison of optical coherence tomography and high frequency intravascular ultrasound. Brezinski ME, et al. **Heart** 1997 May;77(5):397–403

Localization of vitronectin in the normal and atherosclerotic human vessel wall. van Aken BE, et al. **Histochem Cell Biol** 1997 Apr;107(4):313–20

Ultrastructure of atheromatous lesions experimentally induced in Syrian hamsters of the APA strain. Yamanouchi J, et al. **Histol Histopathol** 1997 Apr;12(2):433–8

Potential role of the adventitia in arteritis and atherosclerosis. Wilcox JN, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S21–35 (102 ref.)

Evidence that the initial up-regulation of phosphatidylcholine biosynthesis in free cholesterol-loaded macrophages is an adaptive response that prevents cholesterol-induced cellular necrosis. Proposed role of an eventual failure of this response in foam cell necrosis in advanced atherosclerosis. Tabas I, et al. **J Biol Chem** 1996 Sep 13;271(37):22773–81

Oxidative hypothesis of atherogenesis. Klatt P, et al. **J Cardiovasc Risk** 1996 Aug;3(4):346–51 (50 ref.)

Left, right, near or far wall common carotid intima-media thickness measurements: associations with cardiovascular disease and lower extremity arterial atherosclerosis. Bots ML, et al. **J Clin Epidemiol** 1997 Jul;50(7):801–7

The extracellular matrix as a cell cycle control element in atherosclerosis and restenosis. Assoian RK, et al. **J Clin Invest** 1996 Dec 1;98(11):2436–9 (33 ref.)

Perspectives series: cell adhesion in vascular biology. Smooth muscle migration in atherosclerosis and restenosis. Schwartz SM. **J Clin Invest** 1997 Jun 15;99(12):2814–6 (22 ref.)

Paradoxical enhancement of atherosclerosis by probucol treatment in apolipoprotein E-deficient mice. Zhang SH, et al. **J Clin Invest** 1997 Jun 15;99(12):2858–66

Early morphologic changes of atherosclerosis induced by ventromedial hypothalamic lesion in the spontaneously diabetic Goto-Kakizaki rat. Nishida M, et al. **J Lab Clin Med** 1997 Feb;129(2):200–7

Mast cell distribution, activation, and phenotype in atherosclerotic lesions of human carotid arteries. Jeziorska M, et al. **J Pathol** 1997 May;182(1):115–22

Structural heterogeneity and contacting interactions of vascular dendritic cells in early atherosclerotic lesions of the human aorta. Bobryshev YV, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):49–60

Ultrastructural evidence for association of vascular dendritic cells with T-lymphocytes and with B-cells in human atherosclerosis. Bobryshev YV, et al. **J Submicrosc Cytol Pathol** 1997 Apr;29(2):209–21

An atypical aortic atherosclerotic lesion in cynomolgus monkeys during hypercholesterolemia: a protection by smooth muscle cells against advanced lesions? Bouissou H, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):109–20

Differential effect of two calcium channel blockers--nifedipine and diltiazem--on atherogenesis in hypercholesterolemic hamster. Raicu M, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):265–75

The effect of ACE inhibitors on atheroma formation is potentiated by association with a calcium channel blocker. A biochemical and ultrastructural study. Raicu M, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):317–28

MR microscopy of the arterial wall in an experimental model of atherosclerosis: preliminary results. Ford JC, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):93–9

Phenotypic characterization of human smooth muscle cells derived from atherosclerotic tibial and peroneal arteries. Jones BA, et al. **J Vasc Surg** 1996 Nov;24(5):883–91

Superficial femoral artery stenoses: characteristics of progressing lesions. Walsh DB, et al. **J Vasc Surg** 1997 Mar;25(3):512–21

Atheromatous and atheroma-like lesions of the central retinal artery: histopathological correlations. Eberle MM, et al. **Jpn J Ophthalmol** 1996;40(3):377–84

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Rus H, et al. **N Engl J Med** 1997 Aug 7;337(6):423; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.

Carotid atherosclerosis. Definition, pathogenesis, and clinical significance. Garcia JH, et al. **Neuroimaging Clin N Am** 1996 Nov;6(4):801–10 (36 ref.)

Uterine artery atherosclerotic disease: histologic features and clinical correlation. Crawford BS, et al. **Obstet Gynecol** 1997 Aug;90(2):210–5

Chemical characterization of peroxidized low-density lipoprotein in plasma and aortic atheroma. Kanazawa T, et al. **Pathobiology** 1996;64(1):18–26

The localization of tissue factor and apolipoprotein(a) in atherosclerotic lesions of the human aorta and their relation to fibrinogen-fibrin transition. Ichikawa K, et al. **Pathol Res Pract** 1996 Mar;192(3):224–32

Atherosclerosis in youth: are hypertension and other coronary heart disease risk factors already at work? Oalmann MC, et al. **Pediatr Nephrol** 1997 Feb;11(1):99–107 (84 ref.)

Delivery of benzoporphyrin derivative, a photosensitizer, into atherosclerotic plaque of Watanabe heritable hyperlipidemic rabbits and balloon-injured New Zealand rabbits. Allison BA, et al. **Photochem Photobiol** 1997 May; 65(5):877–83

Characterization of post mortem arterial tissue using time-resolved photoacoustic spectroscopy at 436, 461 and 532 nm. Beard PC, et al. **Phys Med Biol** 1997 Jan; 42(1):177–98

Cholesterol crystals, smooth muscle cells and new data on the genesis of atherosclerosis. Kiyak JH. **Pol J Pathol** 1997; 48(1):49–55

A new approach to determining the rates of recruitment of circulating leukocytes into tissues: application to the measurement of leukocyte recruitment into atherosclerotic lesions. Steinberg D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4040–4

Relationship between plaque mass and neointimal hyperplasia after stent placement in Yucatan micropigs. de Smet BJ, et al. **Radiology** 1997 May;203(2):484–8

Thrombin and vascular smooth muscle cell proliferation: implications for atherosclerosis and restenosis. McNamara CA, et al. **Semin Thromb Hemost** 1996;22(2):139–44 (55 ref.)

Relationship between carotid intima-media thickness and symptomatic and asymptomatic peripheral arterial disease. The Edinburgh Artery Study. Allan PL, et al. **Stroke** 1997 Feb;28(2):348–53

Apolipoprotein E-deficient mouse model of human atherosclerosis. O'Neill TP. **Toxicol Pathol** 1997 Jan–Feb; 25(1):20–1 (9 ref.)

Gap junctional vesicles in intimal smooth muscle cells in human atherosclerotic arteries [letter] Bobryshev YV, et al. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):93–4

Declining density of intimal smooth muscle cells as a precondition for atheronecrosis in the coronary artery. Tracy RE. **Virchows Arch** 1997 Feb;430(2):155–62

[Effect of concentrated xuefu zhuyu pill on proliferation of vascular smooth muscle cells in experimental atheriosclerosis rabbits observed by serologic pharmacological test] Zhang QH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):156–9 (Eng. Abstr.) **(Chi)**

[Atherosclerosis. Formal pathogenesis, classification and functional significance] Bräsen JH, et al. **Pathologe** 1997 May;18(3):218–27 (74 ref.) (Eng. Abstr.) **(Ger)**

[In vitro study of endothelium-dependent relaxation and contraction of human atherosclerotic femoral artery] Mohácsi A, et al. **Orv Hetil** 1997 Sep 7;138(36 Suppl 2):2311–6 (1 ref.) (Eng. Abstr.) **(Hun)**

[Polydistrectual atherosclerosis in the elderly. Ischemic cardiopathy and obliterative peripheral arteriopathy of the lower limbs] Cimino R, et al. **Minerva Cardioangiol** 1997 May;45(5):223–7 (Eng. Abstr.) **(Ita)**

[Atherosclerosis regression in the elderly--correlation between centrally depressed lesions and risk factors] Ohni S, et al. **Nippon Ronen Igakkai Zasshi** 1996 Dec; 33(12):923–7 (Eng. Abstr.) **(Jpn)**

[Autopsy findings of atheromatous embolism to the spinal cord] Wang Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Dec;33(12):935–9 (Eng. Abstr.) **(Jpn)**

[Ruptured fusiform aneurysm of the basilar artery with minimal atherosclerosis--report of a case (published erratum appears in No To Shinkei 1997 Jul;49(7):645)] Takao M, et al. **No To Shinkei** 1997 Jun;49(6):553–7 (Eng. Abstr.) **(Jpn)**

[Varying expression of atherosclerosis in the aortic regions with high and low density of the adrenergic nervous plexuses] Shvalev VN, et al. **Arkh Patol** 1996 Sep–Oct; 58(5):28–30 (Eng. Abstr.) **(Rus)**

[Mediacalcinosis of the aorta (pathomorphology and pathogenesis of arterial calcification and its relationship to atherosclerosis)] Sokolova RI. **Arkh Patol** 1996 Sep–Oct; 58(5):31–5 (Eng. Abstr.) **(Rus)**

[Heterogeneity of smooth muscle cells and intima thickening of various genesis and in organized thrombi] Shekhonin BV, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):222–7 **(Rus)**

[The relationship between Chlamydia pneumoniae and atherosclerotic lesions of the aorta] Gloria Breceda F, et al. **Arch Inst Cardiol Mex** 1997 Jan–Feb;67(1):17–23 (Eng. Abstr.) **(Spa)**

[Hypertension, kidney failure and angina in renovascular and coronary disease (CLINICAL CONFERENCE)] **Medicina (B Aires)** 1996;56(2):173–82 **(Spa)**

PHYSIOPATHOLOGY

Coronary segmental responses to acetylcholine and bradykinin in patients with atherosclerotic risk factors. Kato M, et al. **Am J Cardiol** 1997 Sep 15;80(6):751–5

Cell dysfunction in atherosclerosis and the ischemic manifestations of coronary artery disease. Selwyn AP, et al. **Am J Cardiol** 1997 Mar 6;79(5A):17–23 (106 ref.)

Putting low-density lipoproteins at center stage in atherogenesis. Sniderman AD, et al. **Am J Cardiol** 1997 Jan 1;79(1):64–7

Insulin resistance in atherosclerosis [editorial; comment] Eckel RH. **Am J Clin Nutr** 1997 Jan;65(1):164–5. Comment on: Am J Clin Nutr 1997 Jan;65(1):79–87.

Pathogenic mechanisms of atherosclerosis: effect of lipid lowering on the biology of atherosclerosis. Ganz P, et al. **Am J Med** 1996 Oct 8;101(4A):4A10S–16S (87 ref.)

Immunohistochemical localization of defensin in human coronary vessels. Barnathan ES, et al. **Am J Pathol** 1997 Mar;150(3):1009–20

In vivo aortic wall characteristics at the early stage of atherosclerosis in rabbits. Hironaka K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1142–7

Macromolecular transport in the arterial intima: comparison of chronic and acute injuries. Penn MS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1560–70

Postischemic hyperemia in subjects with lower limbs obstructive arteriopathy: role of PGI2 and endothelin. Pancera P, et al. **Angiology** 1997 Feb;48(2):149–55

Advanced glycation end-products and atherosclerosis. Vlassara H. **Ann Med** 1996 Oct;28(5):419–26 (60 ref.)

The PDAY Study: natural history, risk factors, and pathobiology. Pathobiological Determinants of Atherosclerosis in Youth. Strong JP, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:226–35; discussion 235–7 (22 ref.)

Atherosclerosis and angiogenesis. Its pathophysiological significance in humans as well as in an animal model induced by the gene transfer of vascular endothelial growth factor. Sueishi K, et al. **Ann N Y Acad Sci** 1997 Apr 15; 811:311–22; 322–4 (37 ref.)

Microcirculatory compensation to progressive atherosclerotic disease. Cisek PL, et al. **Ann Vasc Surg** 1997 Jan;11(1):49–53

Nitric oxide synthase: role in the genesis of vascular disease. Cooke JP, et al. **Annu Rev Med** 1997;48:489–509 (116 ref.)

Role of leukocyte-specific LDL receptors on plasma lipoprotein cholesterol and atherosclerosis in mice. Boisvert WA, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):340–7

Cellular consequences of the association of apoB lipoproteins with proteoglycans. Potential contribution to atherogenesis. Hurt-Camejo E, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1011–7 (101 ref.)

Low-density lipoprotein apheresis versus lipid lowering drugs in the treatment of severe hypercholesterolemia: four years' experience. Schiel R, et al. **Artif Organs** 1996 Apr; 20(4):318–23

The L-arginine–nitric oxide pathway: role in atherosclerosis and therapeutic implications. Böger RH, et al. **Atherosclerosis** 1996 Nov 15;127(1):1–11 (120 ref.)

Phagocyte implications in advanced atherosclerosis. de Prost D, et al. **Atherosclerosis** 1997 Jun;131 Suppl:S19–21 (6 ref.)

Mechanical determinants of plaque modeling, remodeling and disruption. Glagov S, et al. **Atherosclerosis** 1997 Jun;131 Suppl:S13–4 (6 ref.)

Atherosclerosis progression/regression: lipoprotein and vessel wall determinants. Kramsch DM. **Atherosclerosis** 1995 Dec;118 Suppl:S29–36 (53 ref.)

Arterial remodeling in atherosclerosis and restenosis: a vague concept of a distinct phenomenon. Post MJ, et al. **Atherosclerosis** 1995 Dec;118 Suppl:S115–23 (68 ref.)

The effects of renin-angiotensin system inhibition on aortic cholesterol content in cholesterol-fed rabbits. Sugano M, et al. **Atherosclerosis** 1996 Nov 15;127(1):123–9

Regression of arteriosclerotic lesions induced by immunization with heat shock protein 65-containing material in normocholesterolemic, but not hypercholesterolemic, rabbits. Xu Q, et al. **Atherosclerosis** 1996 Jun;123(1–2):145–55

Associations of ankle-brachial index with clinical coronary heart disease, stroke and preclinical carotid and popliteal atherosclerosis: the Atherosclerosis Risk in Communities (ARIC) Study. Zheng ZJ, et al. **Atherosclerosis** 1997 May; 131(1):115–25

Leucocyte adhesion under flow conditions: principles important in tissue engineering. Jones DA, et al. **Biomaterials** 1996 Feb;17(3):337–47 (92 ref.)

Hypertension, atherosclerosis and LVH in ELSA. European Lacidipine Study of Atherosclerosis. Agabiti Rosei E. **Blood Press Suppl** 1996;4:44–7 (19 ref.)

Effect of verapamil on intimal thickening and vascular reactivity in the collared carotid artery of the rabbit. Ustünes L, et al. **Br J Pharmacol** 1996 Aug;118(7):1681–8

Vitamin K status and bone mass in women with and without aortic atherosclerosis: a population-based study. Jie KG, et al. **Calcif Tissue Int** 1996 Nov;59(5):352–6

Oxygen-derived free radicals contribute to baroreceptor dysfunction in atherosclerotic rabbits. Li Z, et al. **Circ Res** 1996 Oct;79(4):802–11

Angiotensin-converting enzyme inhibition prevents arterial nuclear factor-kappa B activation, monocyte chemoattractant protein-1 expression, and macrophage infiltration in a rabbit model of early accelerated atherosclerosis. Hernández-Presa M, et al. **Circulation** 1997 Mar 18;95(6):1532–41

Effects of dietary L-arginine on atherosclerosis and endothelium-dependent vasodilatation in the hypercholesterolemic rabbit. Response according to treatment duration, anatomic site, and sex. Jeremy RW, et al. **Circulation** 1996 Aug 1;94(3):498–506

Activation of monocyte/macrophage functions related to acute atheroma complication by ligation of CD40: induction of collagenase, stromelysin, and tissue factor. Mach F, et al. **Circulation** 1997 Jul 15;96(2):396–9

Contribution of inadequate arterial remodeling to the development of focal coronary artery stenoses. An intravascular ultrasound study. Mintz GS, et al. **Circulation** 1997 Apr 1;95(7):1791–8

Arterial remodeling after balloon angioplasty or stenting in an atherosclerotic experimental model. Post MJ, et al. **Circulation** 1997 Aug 5;96(3):996–1003

Lipoprotein oxidation and progression of carotid atherosclerosis. Salonen JT, et al. **Circulation** 1997 Feb 18; 95(4):840–5

Lewis A. Conner Memorial Lecture. Oxidative modification of LDL and atherogenesis. Steinberg D. **Circulation** 1997 Feb 18;95(4):1062–71 (96 ref.)

Coronary vasoreactivity in humans [letter; comment] Tousoulis D, et al. **Circulation** 1997 Mar 18;95(6):1667. Comment on: Circulation 1995 Oct 15;92(8):2087–94.

Atherosclerotic arterial remodeling in the superficial femoral artery: individual variation in local compensatory enlargement response [letter; comment] Wong CB. **Circulation** 1997 Jan 7;95(1):279–80. Comment on: Circulation 1996 May 15;93(10):1818–25.

Coronary risk factors, endothelial function, and atherosclerosis: a review. Vogel RA. **Clin Cardiol** 1997 May;20(5):426–32 (79 ref.)

Angiotensin-converting enzyme inhibitors and atherosclerosis: relevance of animal models to human disease. Fennessy PA, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S30–2 (14 ref.)

Gender-related differences in the development of atherosclerosis: studies at the cellular level. Fitzpatrick LA. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):267–9

Oestrogen and endothelial cell angiogenic activity. Schnaper HW, et al. **Clin Exp Pharmacol Physiol** 1996 Mar; 23(3):247–50 (20 ref.)

Stroke-prone SHR and arteriolipidosis-prone SHR as models for atherosclerosis: their mechanisms and application for nutritional and pharmacological studies. Yamori Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S244–5

Effects of curvature and stenosis-like narrowing on wall shear stress in a coronary artery model with phasic flow. Nosovitsky VA, et al. **Comput Biomed Res** 1997 Feb; 30(1):61–82

Thrombotic risk factors for atherosclerosis. Dobroski DR, et al. **Coron Artery Dis** 1996 Dec;7(12):919–32 (100 ref.)

Role of leukocytes in neointimal formation after balloon angioplasty in the rabbit atherosclerotic model. Guzman LA, et al. **Coron Artery Dis** 1995 Sep;6(9):693–701

An emerging understanding of the interactions of plasma lipoproteins with the arterial wall that leads to the development of atherosclerosis [editorial] Beisiegel U, et al. **Curr Opin Lipidol** 1996 Oct;7(5):265–8 (24 ref.)

Atherosclerosis: cell biology and lipoproteins [editorial] Lester LB, et al. **Curr Opin Lipidol** 1995 Dec;6(6):U165–71

Atherosclerosis [editorial] Rees A. **Curr Opin Lipidol** 1997 Jun;8(3):U42–3

The atherosclerosis-calcification link? Watson KE, et al. **Curr Opin Lipidol** 1996 Apr;7(2):101–4 (34 ref.)

Chromium deficiency might contribute to insulin resistance, type 2 diabetes mellitus, dyslipidaemia, and atherosclerosis. [letter] Mahdi GS. **Diabet Med** 1996 Apr;13(4):389–90

The mystery of diabetes and atherosclerosis: time for a new plot. Semenkovich CF, et al. **Diabetes** 1997 Mar; 46(3):327–34 (121 ref.)

Effect of exogenous hyperinsulinaemia on atherogenesis in cholesterol-fed rabbits. Nordestgaard BG, et al. **Diabetologia** 1997 May;40(5):512–20

Fibrinogen, fibrinolysis and diabetes mellitus: a comment [comment] Vague P, et al. **Diabetologia** 1997 Jun; 40(6):738–40 (30 ref.). Comment on: Diabetologia 1997 Jun;40(6):731–4. Comment on: Diabetologia 1997 Jun;40(6):735–7.

Acute coronary thrombosis--the role of plaque disruption and its initiation and prevention. Davies MJ. **Eur Heart J** 1995 Nov;16 Suppl L:3–7 (31 ref.)

Free radicals, atherosclerosis, ageing and related dysmetabolic pathologies: biochemical and molecular aspects. Cestaro B, et al. **Eur J Cancer Prev** 1997 Mar;6 Suppl 1:S25–30 (33 ref.)

Free radicals, atherosclerosis, ageing, and related dysmetabolic pathologies: pathological and clinical aspects. Scarfiotti C, et al. **Eur J Cancer Prev** 1997 Mar;6 Suppl 1:S31–6 (31 ref.)

Wall shear stress and early atherosclerotic lesions in the abdominal aorta in young adults. Pedersen EM, et al. **Eur J Vasc Endovasc Surg** 1997 May;13(5):443–51

Soy isoflavones enhance coronary vascular reactivity in atherosclerotic female macaques. Honoré EK, et al. **Fertil Steril** 1997 Jan;67(1):148–54

Possible participation of Fas-mediated apoptosis in the mechanism of atherosclerosis. Fukuo K, et al. **Gerontology** 1997;43 Suppl 1:35–42

Involvement of enhanced coagulation and fibrinolysis system in induction of atherosclerosis in hyperlipidemic rabbits fed on a high cholesterol diet. Ichino K, et al. **In Vivo** 1997 Mar-Apr;11(2):115–23

Experimental models of accelerated atherosclerosis syndromes. Mehta D, et al. **Int J Cardiol** 1996 Oct 25; 56(3):235–57 (182 ref.)

Lipoprotein(a): structural implications for pathophysiology. Koschinsky ML, et al. **Int J Clin Lab Res** 1997;27(1):14–23 (94 ref.)

Lipoprotein (a) in the regulation of fibrinolysis. Edelberg JM, et al. **J Atheroscler Thromb** 1995;2 Suppl 1:S5–7 (27 ref.)

The role of oxidized LDL in the atherogenic process. Witztum JL. **J Atheroscler Thromb** 1994;1(2):71–5 (32 ref.)

Residual stresses in oscillating thoracic arteries reduce circumferential stresses and stress gradients. Chaudhry HR, et al. **J Biomech** 1997 Jan;30(1):57–62

Development of femoral atherosclerosis in relation to flow disturbances. Smedby O, et al. **J Biomech** 1996 Apr; 29(4):543–7 (34 ref.)

Composition- and history-dependent radial compressive behavior of human atherosclerotic plaque. Topoleski LD, et al. **J Biomed Mater Res** 1997 Apr;35(1):117–27

In vivo action of 15-lipoxygenase in early stages of human atherogenesis. Kühn H, et al. **J Clin Invest** 1997 Mar 1; 99(5):888–93

Reactive oxygen species produced by macrophage-derived foam cells regulate the activity of vascular matrix metalloproteinases in vitro. Implications for atherosclerotic plaque stability. Rajagopalan S, et al. **J Clin Invest** 1996 Dec 1;98(11):2572–9

Different effects of hypertension, atherosclerosis and hyperlipidaemia on arterial distensibility. Barenbrock M, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1712–7

Delayed cardiac protection against harmful consequences of stress can be induced in experimental atherosclerosis in rabbits. Szekeres L, et al. **J Mol Cell Cardiol** 1997 Jul; 29(7):1977–83

Lipoprotein and apoprotein profiles of hyperlipidemic atherosclerosis-prone Japanese quail. Nagata J, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):47–57

Endothelial dysfunction in atherosclerosis. Busse R, et al. **J Vasc Res** 1996 May-Jun;33(3):181–94 (185 ref.)

Pathogenesis of atherosclerosis. Ylä-Herttuala S, et al. **Maturitas** 1996 May;23 Suppl:S47–9 (13 ref.)

Hypertension, aging, and atherosclerosis. The endothelial interface. Susic D. **Med Clin North Am** 1997 Sep; 81(5):1231–40 (55 ref.)

The pathogenesis and prevention of atherosclerosis. Hässig A, et al. **Med Hypotheses** 1996 Nov;47(5):409–12 (24 ref.)

A unifying theory of atherogenesis. Sloop GD. **Med Hypotheses** 1996 Oct;47(4):321–5 (35 ref.)

Is endothelial cell autocrine production of tumor necrosis factor a mediator of lipid-induced endothelial dysfunction? Toborek M, et al. **Med Hypotheses** 1996 Nov;47(5):377–82 (49 ref.)

Nitric oxide and atherosclerosis: possible implications for therapy. Bult H. **Mol Med Today** 1996 Dec;2(12):510–8 (47 ref.)

Is interdialytic blood pressure profile related to structural changes of arteries in haemodialysis patients [letter] Fabbian F, et al. **Nephron** 1996;74(2):491–2

Diurnal systolic blood pressure variability is the strongest predictor of early carotid atherosclerosis. Sander D, et al. **Neurology** 1996 Aug;47(2):500–7

Laser-Doppler flux in the normal and atherosclerotic carotid artery wall in normotensive and hypertensive subjects. Incandela L, et al. **Panminerva Med** 1996 Dec;38(4):203–6

Role of atheroma liposomes and malondialdehyde-modified low-density lipoproteins in complement activation. Sorace JM, et al. **Pathobiology** 1996;64(2):73–8

Mechanisms underlying arterial fragility and the complications of atherosclerosis. Stehbens WE. **Pathobiology** 1997;65(1):1–13

Estrogen reduces atherosclerotic lesion development in apolipoprotein E-deficient mice. Bourassa PA, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10022–7

More problems with the endothelium [editorial] Crossman DC. **QJM** 1997 Mar;90(3):157–60

In vivo association between low wall shear stress and plaque in subjects with asymmetrical carotid atherosclerosis. Gnasso A, et al. **Stroke** 1997 May;28(5):993–8

Vascular events during follow-up in patients with aortic arch atherosclerosis. Mitusch R, et al. **Stroke** 1997 Jan;28(1):36–9

Tissue factor in health and disease. Semeraro N, et al. **Thromb Haemost** 1997 Jul;78(1):759–64 (77 ref.)

Tissue factor in the pathogenesis of atherosclerosis. Taubman MB, et al. **Thromb Haemost** 1997 Jul;78(1):200–4 (57 ref.)

Genes upregulated in ischemia-induced arteriosclerosis in rat aortic transplants. Chen J, et al. **Transplant Proc** 1997 Sep; 29(6):2559–60

[Modifications of lipids and lipoproteins due to end products of advanced glycosylation: role in atherosclerosis] Bucala R. **Journ Annu Diabetol Hotel Dieu** 1996;:133–44 (38 ref.) **(Fre)**

[Isoprostanes, a new substance group in angiology--of future significance?] Aghajanian AA, et al. **Vasa** 1997 May; 26(2):65–9 (24 ref.) (Eng. Abstr.) **(Ger)**

[Physiopathological mechanisms in the natural history of the atherosclerotic plaque] Montrucchio G, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):257–61 **(Ita)**

[Lipoprotein(a) as an athero-thrombotic risk factor: epidemiologic evidence and possible pathogenetic mechanisms] Lenzi S, et al. **G Ital Cardiol** 1996 Oct; 26(10):1203–25 (189 ref.) (Eng. Abstr.) **(Ita)**

[Potential role of the endothelium in pathogenesis of atherosclerosis] Budziszewska BK, et al. **Pol Merkuriusz Lek** 1996 Dec;1(6):421–3 (34 ref.) (Eng.

Abstr.) **(Pol)**

[Tissue plasminogen activator and inhibitor and the severity and extensiveness of vascular lesions in peripheral atherosclerosis of the legs] Rość D, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):235–7 (Eng. Abstr.) **(Pol)**

[Pathophysioiogic basis of cellular insulin resistance—independent risk factor for atherosclerosis (editorial)] Tatoń J, et al. **Pol Merkuriusz Lek** 1997 Jan; 2(7):1–4 **(Pol)**

[The formation of atherosclerotic prodromes in risk-group adolescents at stages in their sexual maturation] Bogmat LF. **Lik Sprava** 1997 Mar–Apr;(2):68–72 (Eng. Abstr.) **(Rus)**

[Immune and fibrinolytic system functions in the cardiac manifestations of atherosclerosis] Kamenev VF, et al. **Lik Sprava** 1997 Jan–Feb;(1):33–7 (Eng. Abstr.) **(Rus)**

[Lipids and the endothelium (editorial)] Manojlović D. **Med Pregl** 1997 Jan–Feb;50(1–2):5–8 **(Scr)**

[Molecular approach in the current understanding of the onset and development of atherosclerosis] Dinčić D. **Vojnosanit Pregl** 1997 Jan–Feb;54(1):55–60 (18 ref.) **(Scr)**

PREVENTION & CONTROL

Cigarette smoking and antioxidant vitamins: the smoke screen continues to clear but has a way to go [editorial; comment] [see comments] Cross CE, et al. **Am J Clin Nutr** 1997 Feb; 65(2):562–3. Comment on: Am J Clin Nutr 1997 Feb;65(2):496–502. Comment in: Am J Clin Nutr 1997 Sep;66(3):708–10.

The effect of metabolic programming on atherosclerosis and obesity risk factors in UK adolescents living in poor socioeconomic areas. Harland PS, et al. **Ann N Y Acad Sci** 1997 May 28;817:361–4

Prevention and regression of atherosclerosis: effects of HMG-CoA reductase inhibitors. Bjelajac A, et al. **Ann Pharmacother** 1996 Nov;30(11):1304–15 (53 ref.)

Estrogens and atherosclerosis. Nathan L, et al. **Annu Rev Pharmacol Toxicol** 1997;37:477–515 (279 ref.)

Nutrient intakes by young children in a prospective randomized trial of a low-saturated fat, low-cholesterol diet [letter] Olson RE. **Arch Pediatr Adolesc Med** 1997 Sep; 151(9):960–2

Nutrient intakes by young children in a prospective randomized trial of a low-saturated fat, low-cholesterol diet [letter] Zlotkin S. **Arch Pediatr Adolesc Med** 1997 Sep; 151(9):962–4

Antiatherogenic effect of estrogen abolished by balloon catheter injury in cholesterol-clamped rabbits. Holm P, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug; 17(8):1504–11

Both intracellular and extracellular vitamin C inhibit atherogenic modification of LDL by human vascular endothelial cells. Martin A, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1583–90

Deficiency of inflammatory cell adhesion molecules protects against atherosclerosis in mice. Nageh MF, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1517–20

The hypocholesterolemic and antiatherogenic effects of topically applied phosphatidylcholine in rabbits with heritable hypercholesterolemia. Hsia SL, et al. **Artery** 1996; 22(1):1–23

Combined treatment of probucol with diltiazem regresses atherosclerosis induced by 196 cholesterol diet in rabbit aorta. Kouzuma R, et al. **Artery** 1995;21(6):337–51

Dietary conjugated linoleic acid reduces plasma lipoproteins and early aortic atherosclerosis in hypercholesterolemic hamsters. Nicolosi RJ, et al. **Artery** 1997;22(5):266–77

The effect of the aged garlic extract, 'Kyolic', on the development of experimental atherosclerosis. Efendy JL, et al. **Atherosclerosis** 1997 Jul 11;132(1):37–42

Effect of ascorbate supplementation on low density lipoprotein oxidation in smokers. Fuller CJ, et al. **Atherosclerosis** 1996 Jan 26;119(2):139–50

The impact of female sex hormones on secondary prevention of atherosclerosis in ovariectomized cholesterol-fed rabbits. Haarbo J, et al. **Atherosclerosis** 1996 Jun;123(1–2):139–44

Interleukin-2 receptor-specific fusion toxin inhibits barotrauma-induced arterial atherosclerosis. Miller DD, et al. **Atherosclerosis** 1996 Sep 27;126(1):1–14

The resistance of low density lipoprotein to oxidation promoted by copper and its use as an index of antioxidant therapy. O'Leary VJ, et al. **Atherosclerosis** 1996 Jan 26; 119(2):169–79

Dietary flax seed in prevention of hypercholesterolemic atherosclerosis. Prasad K. **Atherosclerosis** 1997 Jul 11; 132(1):69–76

Antiatherogenic effects of long-term benfluorex treatment in male insulin resistant JCR:LA-cp rats. Russell JC, et al. **Atherosclerosis** 1997 Jul 25;132(2):187–97

The angiotensin-II receptor antagonist, losartan, inhibits LDL lipid peroxidation and atherosclerosis in apolipoprotein E-deficient mice. Keidar S, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):622–5

Acetylsalicylic acid and vitamin E in prevention of arterial thrombosis. Polasek J. **Can J Cardiol** 1997 May;13(5):533–5

Emerging concepts: angiotensin-converting enzyme inhibition in coronary artery disease. Mancini GB. **Cardiovasc Drugs Ther** 1996 Nov;10 Suppl 2:609–12 (22 ref.)

Randomized, controlled trial of antioxidant vitamins and cardioprotective diet on hyperlipidemia, oxidative stress, and development of experimental atherosclerosis: the diet and antioxidant trial on atherosclerosis (DATA). Singh RB, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):763–71

Oral health of 3-year-old children and their parents after 29 months of child-focused antiatherosclerotic dietary intervention in a prospective randomized trial. Karjalainen S, et al. **Caries Res** 1997;31(3):180–5

L-arginine prevents xanthoma development and inhibits atherosclerosis in LDL receptor knockout mice [see comments] Aji W, et al. **Circulation** 1997 Jan 21;95(2):430–7 . Comment in: Circulation 1997 Jan 21;95(2):311–2.

Raloxifene inhibits aortic accumulation of cholesterol in ovariectomized, cholesterol-fed rabbits. Bjarnason NH, et al. **Circulation** 1997 Sep 16;96(6):1964–9

Both dietary fish-oil supplementation and aspirin fail to inhibit atherosclerosis in long-term vein bypass grafts in moderately hypercholesterolemic nonhuman primates. Boerboom LE, et al. **Circulation** 1997 Aug 5;96(3):968–74

Can a viral serine proteinase inhibitor prevent postangioplasty restenosis? [editorial; comment] Haber E. **Circulation** 1996 Dec 1;94(11):2694–5. Comment on: Circulation 1996 Dec 1;94(11):2890–900.

Virus-encoded serine proteinase inhibitor SERP-1 inhibits atherosclerotic plaque development after balloon angioplasty [see comments] Lucas A, et al. **Circulation** 1996 Dec 1;94(11):2890–900. Comment in: Circulation 1996 Dec 1;94(11):2694–5.

Therapy and clinical trials [editorial] Jialal I, et al. **Curr Opin Lipidol** 1995 Dec;6(6):U171–5

Antioxidants in the prevention of atherosclerosis. Olsson AG, et al. **Curr Opin Lipidol** 1996 Dec;7(6):374–80 (45 ref.)

Lipid-lowering trials in the primary and secondary prevention of coronary heart disease: new evidence, implications and outstanding issues. Watts GF, et al. **Curr Opin Lipidol** 1996 Dec;7(6):341–55 (108 ref.)

Pharmacological strategies to prevent macrovascular disease in NIDDM. Colwell JA. **Diabetes** 1997 Sep;46 Suppl 2:S131–4

Fibrinogen and diabetes mellitus: is it time for intervention trials? [see comments] Ceriello A. **Diabetologia** 1997 Jun; 40(6):731–4 (46 ref.). Comment in: Diabetologia 1997 Jun;40(6):735–7. Comment in: Diabetologia 1997 Jun;40(6):738–40.

The potential of antioxidants to prevent atherosclerosis development and its clinical manifestations. Pettersson KS, et al. **EXS** 1996;76:21–31 (47 ref.)

Effect of estrogen on isoforms of nitric oxide synthase: possible mechanism of anti-atherosclerotic effect of estrogen. Hayashi T, et al. **Gerontology** 1997;43 Suppl 1:24–34

Chronic dietary L-arginine prevents endothelial dysfunction secondary to environmental tobacco smoke in normocholesterolemic rabbits. Hutchison SJ, et al. **Hypertension** 1997 May;29(5):1186–91

beta-Carotene and alpha-tocopherol inhibit the development of atherosclerotic lesions in hypercholesterolemic rabbits. Sun J, et al. **Int J Vitam Nutr Res** 1997;67(3):155–63

Preservation of endogenous antioxidant activity and inhibition of lipid peroxidation as common mechanisms of antiatherosclerotic effects of vitamin E, lovastatin and amlodipine. Chen L, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):569–75

The effect of dietary fat, antioxidants, and pro-oxidants on blood lipids, lipoproteins, and atherosclerosis. Kwiterovich PO Jr. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S31–41 (75 ref.)

Moderate alcohol feeding attenuates postinjury vascular cell proliferation in rabbit angioplasty model. Merritt R, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):19–25

The effect of antioxidant vitamin supplementation on traditional cardiovascular risk factors. Miller ER 3rd, et al. **J Cardiovasc Risk** 1997 Feb;4(1):19–24

Macrophage-mediated 15-lipoxygenase expression protects against atherosclerosis development. Shen J, et al. **J Clin Invest** 1996 Nov 15;98(10):2201–8

Antioxidants, cholesterol, and ischaemic heart disease: CHAOS or confusion? Winder AF. **J Clin Pathol** 1997 Apr;50(4):269–70

Modulation of endothelial function: strategy for long-term cardiovascular protection. Haller H. **J Hypertens Suppl** 1996 Nov;14(4):S27–32 (81 ref.)

Effects of bifemelane hydrochloride on atherosclerosis in aged rats fed low-calcium diets. Yasui M, et al. **J Int Med Res** 1996 Nov–Dec;24(6):454–65

Direct drug control of the vascular wall. Paoletti R, et al. **J Med Liban** 1995;43(3):122–5 (44 ref.)

Exercise in the prevention of atherosclerotic, metabolic and hypertensive diseases: a review. Hardman AE. **J Sports Sci** 1996 Jun;14(3):201–18 (145 ref.)

Cholesterol lowering with statin drugs, risk of stroke, and total mortality. An overview of randomized trials. Hebert PR, et al. **JAMA** 1997 Jul 23–30;278(4):313–21 (53 ref.)

Effects of ovariectomy and estrogen replacement on aorta angiotensin-converting enzyme activity in rats. Tanaka M, et al. **Jpn J Pharmacol** 1997 Apr;73(4):361–3

A randomised, blinded, trial of clopidogrel versus aspirin in patients at risk of ischaemic events (CAPRIE). CAPRIE Steering Committee [see comments] **Lancet** 1996 Nov 16; 348(9038):1329–39. Comment in: Lancet 1997 Feb 1;349(9048):354; discussion 356. Comment in: Lancet 1997 Feb 1;349(9048):354–5; discussion 356. Comment in: Lancet 1997 Feb 1;349(9048):355; discussion 356. Comment in: Lancet 1997 Mar 15;349(9054):806–7. Comment in: ACP J Club 1997 May–Jun;126(3):59.

Effect of trifluoperazine on certain arterial wall lipid-metabolizing enzymes inducing atherosclerosis in rhesus monkeys. Mohindroo A, et al. **Lipids** 1997 Aug; 32(8):867–72

Estrogen-progestin replacement therapy and atherosclerosis. Punnonen R, et al. **Maturitas** 1996 May;23 Suppl:S61–4 (15 ref.)

The pathogenesis and prevention of atherosclerosis. Hässig A, et al. **Med Hypotheses** 1996 Nov;47(5):409–12 (24 ref.)

Reported antiatherosclerotic activity of silicon may reflect increased endothelial synthesis of heparan sulfate proteoglycans. McCarty MF. **Med Hypotheses** 1997 Aug; 49(2):175–6

Glucosamine may retard atherogenesis by promoting endothelial production of heparan sulfate proteoglycans. McCarty MF. **Med Hypotheses** 1997 Mar;48(3):245–51 (94 ref.)

Effects of omega 3-PUFA on plasma fibrinogen levels in hypertriglyceridemic hemodialysis patients. Persichetti S, et al. **Minerva Urol Nefrol** 1996 Sep;48(3):137–8

LDL-cholesterol lowering and atherosclerosis—clinical benefit and possible mechanisms: an update [see comments] Kroon AA, et al. **Neth J Med** 1997 Jul;51(1):16–27 (140 ref.). Comment in: Neth J Med 1997 Jul;51(1):v–vii.

A study of the development of atherosclerosis in childhood and young adults: risk factors and the prevention of progression in Japan and the USA. The Pathobiological Determinants of Atherosclerosis in Youth (PDAY) Research Group. Komatsu A, et al. **Pathol Int** 1996 Aug; 46(8):541–7 (38 ref.)

Carvedilol inhibits aortic lipid deposition in the hypercholesterolemic rat. Feuerstein GZ, et al. **Pharmacology** 1997 Jan;54(1):24–32

Estrogen reduces atherosclerotic lesion development in apolipoprotein E-deficient mice. Bourassa PA, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10022–7

Overexpression of lecithin:cholesterol acyltransferase in transgenic rabbits prevents diet-induced atherosclerosis. Hoeg JM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11448–53

Hormone replacement: effects on atherogenesis. Wild RA. **Semin Reprod Endocrinol** 1996 Feb;14(1):63–9 (77 ref.)

Ascorbic acid and atherosclerotic cardiovascular disease. Lynch SM, et al. **Subcell Biochem** 1996;25:331–67 (165 ref.)

A vitamin D analog, MC1288, inhibits adventitial inflammation and suppresses intimal lesions in rat aortic allografts. Räisänen-Sokolowski AK, et al. **Transplantation** 1997 Apr 15;63(7):936–41

[What kind of fat on the bread? (editorial)] Uusitupa M, et al. **Duodecim** 1995;111(14):1281–2 (13 ref.) **(Fin)**

[Calcium antagonists and development of the atheromatous plaque] Weber S. **Arch Mal Coeur Vaiss** 1997 May;90 Spec No 2:51–3 (Eng. Abstr.) **(Fre)**

[Prevention of cardiovascular diseases in the elderly—what is still useful?] Donat K. **Z Gerontol Geriatr** 1996 Jul–Aug; 29(4):280–94 (96 ref.) (Eng. Abstr.) **(Ger)**

[Dichotomy between cholesterol-lowering drugs in clinical trials and practice. Experience of the DiSCO Project (District of Serra Community Control of Chronic Degenerative Diseases)] Volpe R, et al. **Cardiologia** 1997 Aug;42(8):815–25 (70 ref.) **(Ita)**

[n-3 fatty acids and cardiovascular diseases: update to 1996] De Caterina R, et al. **G Ital Cardiol** 1996 May;26(5):563–78 (61 ref.) (Eng. Abstr.) **(Ita)**

[School-based intervention trial for cardiovascular health] Yanagi H, et al. **Nippon Koshu Eisei Zasshi** 1997 Mar; 44(3):174–83 (Eng. Abstr.) **(Jpn)**

[Hormone replacement therapy (HRT) and hyperlipidemia: effect of HRT on serum lipids and it's atheroprotective function] Honjo H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug; 48(8):694–707 (43 ref.) **(Jpn)**

[Measurement of treatment efficacy in diabetes: effect of atherosclerosis prevention and general effects] Czech A, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):49–51 (8 ref.) (Eng. Abstr.) **(Pol)**

[Insulin resistance and hyperinsulinemia—clinical aspects] Kozek E. **Przegl Lek** 1996;53(9):647–52 (51 ref.) (Eng. Abstr.) **(Pol)**

[Anti-atherosclerotic action of hypotensive drugs] Gmiński J, et al. **Wiad Lek** 1996;49(7–12):182–98 (0 ref.) (Eng. Abstr.) **(Pol)**

[Prevention and therapy of atherosclerosis] Gajdoš M, et al. **Bratisl Lek Listy** 1996 Jul;97(7):382–7 (Eng. Abstr.) **(Slo)**

PSYCHOLOGY

Hopelessness and 4-year progression of carotid atherosclerosis. The Kuopio Ischemic Heart Disease Risk Factor Study. Everson SA, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1490–5

Socioeconomic status and progression of carotid atherosclerosis. Prospective evidence from the Kuopio Ischemic Heart Disease Risk Factor Study. Lynch J, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):513–9

Interaction of workplace demands and cardiovascular reactivity in progression of carotid atherosclerosis: population based study. Everson SA, et al. **BMJ** 1997 Feb

22;314(7080):553–8

RADIOGRAPHY

Tortuosity and atherosclerosis in the femoral artery: what is cause and what is effect? Smedby O, et al. **Ann Biomed Eng** 1996 Jul–Aug;24(4):474–80

Geometric risk factors for atherosclerosis in the aortic bifurcation: a digitized angiography study. Smedby O. **Ann Biomed Eng** 1996 Jul–Aug;24(4):481–8

Serial magnetic resonance imaging of experimental atherosclerosis allows visualization of lesion characteristics and lesion progression in vivo. Kaneko E, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:245–52; discussion 252–4

Quantitative assessment of abdominal aortic atherosclerosis observed in CT scans. Dougherty G. **Comput Med Imaging Graph** 1997 May–Jun;21(3):185–93

Use of panoramic radiography among an ambulatory dental population to detect patients at risk of stroke. Carter LC, et al. **J Am Dent Assoc** 1997 Jul;128(7):977–84

Lateral cephalometric radiographs: an aid in detecting patients at risk of stroke. Friedlander AH, et al. **J Am Dent Assoc** 1996 Dec;127(12):1745–50

Radiological case of the month. Bilateral iliac artery atherosclerosis treated with balloon angioplasty and stent placement. Christy GW, et al. **J Ark Med Soc** 1997 Mar; 93(10):499–501

Contrast-enhanced magnetic resonance angiography of carotid arterial wall in pigs. Lin W, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):183–90

X-ray imaging technique for in vitro tissue composition measurements using saline/iodine displacement: experimental verification. Moreau M, et al. **Med Phys** 1997 Mar;24(3):351–60

X-ray imaging technique for in vitro tissue composition measurements using saline/iodine displacement: technique optimization. Moreau M, et al. **Med Phys** 1997 Jan; 24(1):37–49

The role of angiography in the assessment of atherosclerotic disease. Assessment of the carotid bifurcation. Fox AJ. **Neuroimaging Clin N Am** 1996 Aug;6(3):645–9 (16 ref.)

Segmental arterial calcification and atheromatosis in a limb with venous angiodysplasia (Klippel–Trenaunay syndrome). Hafner J, et al. **Vasa** 1996;25(3):292–4

[Severe calcifying atherosclerosis of the thoracic aorta with symptoms of aortic isthmus stenosis. Case report] Froelich JJ, et al. **Radiologe** 1997 Feb;37(2):173–6 (Eng. Abstr.) **(Ger)**

[A case of DeBakey type IIIb acute aortic dissection extending through an atherosclerotic abdominal aortic aneurysm] Iino M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):985–7 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Preparation and biodistribution of 99m technetium labelled oxidized LDL in man. Iuliano L, et al. **Atherosclerosis** 1996 Sep 27;126(1):131–41

Noninvasive detection of atherosclerotic lesions by 99mTc-based immunoscintigraphic targeting of proliferating smooth muscle cells. Narula J, et al. **Chest** 1997 Jun;111(6):1684–90

Gamma imaging of atherosclerotic lesions: the role of antibody affinity in in vivo target localization [see comments] Narula J, et al. **J Nucl Cardiol** 1996 May–Jun; 3(3):231–41. Comment in: J Nucl Cardiol 1996 May–Jun;3(3):278–80.

Maximizing radiotracer delivery to experimental atherosclerotic lesions with high-dose, negative charge-modified Z2D3 antibody for immunoscintigraphic targeting [see comments] Narula J, et al. **J Nucl Cardiol** 1997 May–Jun;4(3):226–33. Comment in: J Nucl Cardiol 1997 May–Jun;4(3):246–8.

Imaging of atherosclerosis--a worthy challenge [editorial; comment] Strauss HW. **J Nucl Cardiol** 1996 May–Jun; 3(3):278–80. Comment on: J Nucl Cardiol 1996 May–Jun;3(3):231–41.

Distal vessel atherosclerosis as a cause for false-positive renal scintigraphy. Cristol L, et al. **Ren Fail** 1996 Nov; 18(6):923–30

Imaging of atherosclerosis (Part II). Kritz H, et al. **Wien Klin Wochenschr** 1996;108(5):123–32 (98 ref.)

[Nuclear medicine diagnosis in the characterization of atherosclerotic plaques] Richter WS, et al. **Dtsch Med Wochenschr** 1997 Jun 6;122(23):761–6 (45 ref.) **(Ger)**

RADIOTHERAPY

Management of peripheral vascular disease: innovative approaches using radiation therapy. Nori D, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):847–56 (71 ref.)

[The influence of laser radiation on blood flow in patients with ischemia of the lower limbs (based on the analysis of the hyperemia reactive test)] Radziszewski K, et al. **Pol Merkuriusz Lek** 1996 Dec;1(6):374–6 (Eng. Abstr.) **(Pol)**

SURGERY

Corotid endarterectomy for symptomatic carotid artery disease demonstrated by duplex ultrasound with minimal arteriographic findings. AbuRahma AF, et al. **Ann Vasc Surg** 1996 Jul;10(4):385–9

Use of the splenic and hepatic artery for renal revascularization in patients with atherosclerotic renal artery disease. Geroulakos G, et al. **Ann Vasc Surg** 1997 Jan;11(1):85–9

Automatic postoperative monitoring of infrainguinal bypass procedures. Blebea J, et al. **Arch Surg** 1997 Mar; 132(3):286–91

Ability of ankle-brachial index to detect lower-extremity atherosclerotic disease progression. McLafferty RB, et al. **Arch Surg** 1997 Aug;132(8):836–40; discussion 840–1

A rare case of multiple atherosclerotic aneurysms involving the femoral artery. Okada K, et al. **Cardiovasc Surg** 1996 Oct;4(5):641–3

Spontaneous perforation of a non-aneurysmal atherosclerotic abdominal aorta or femoral artery. Origuchi N, et al. **Cardiovasc Surg** 1996 Jun;4(3):351–5

Changing patterns of atheroembolism. Sharma PV, et al. **Cardiovasc Surg** 1996 Oct;4(5):573–9

Comparison of transperitoneal and retroperitoneal approaches for infrarenal aortic surgery: early and late results. Sieunarine K, et al. **Cardiovasc Surg** 1997 Feb; 5(1):71–6

Salvage atherectomy: using retrieved tissue to determine the etiology of acute closure. Mayeda GS, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):283–6

Bilateral internal mammary artery atherosclerosis: a late complication of delayed repair of coarctation of the aorta. Dlingea M, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):788–9

Significantly reduced incidence of stroke during coronary artery bypass grafting using transesophageal echocardiography. Trehan N, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):234–42

Aortoiliac occlusion treated by a combination of aortoiliac stent and femorofemoral crossover grafting. Wilkinson JM, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):372–4

Evaluation of radial artery as used for coronary vessel grafting in human heart. Jędrzejczyk T, et al. **Folia Morphol (Warsz)** 1996;55(4):298–300

Our experience with carotid endarterectomy without patch and shunt. Andrikopoulos V, et al. **Int Angiol** 1996 Dec; 15(4):307–11

Experimental models of accelerated atherosclerosis syndromes. Mehta D, et al. **Int J Cardiol** 1996 Oct 25; 56(3):235–57 (182 ref.)

Protein concentration of subcutaneous interstitial fluid in the human leg. A comparison between the wick technique and the blister suction technique. Haaverstad R, et al. **Int J Microcirc Clin Exp** 1996 May–Jun;16(3):111–7

Intraoperative epiaortic ultrasound during cardiac surgery. Nicolosi AC, et al. **J Card Surg** 1996 Jan–Feb;11(1):49–55

Infrainguinal atherectomy using the Auth Rotablator [letter; comment] Ahn SS. **J Endovasc Surg** 1995 Aug;2(3):317–9 . Comment on: J Endovasc Surg 1995 Feb;2(1):67–73.

Aberrant right subclavian artery aneurysm--a surgical review. Jebara VA, et al. **J Med Liban** 1995;43(3):157–61 (32 ref.)

Is renal revascularization in diabetic patients worthwhile? Novick AC. **J Urol** 1997 Mar;157(3):1178–9

Long-term survival after surgical revascularization for atherosclerotic renal artery disease. Steinbach F, et al. **J Urol** 1997 Jul;158(1):38–41

Current and future treatment of carotid bifurcation atherosclerotic disease: a perspective. Becker GJ. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):3–8 (34 ref.)

Balloon-expandable endobypass for femoropopliteal atherosclerotic occlusive disease. A preliminary evaluation of fifty-five patients. Spoelstra H, et al. **J Vasc Surg** 1996 Oct;24(4):647–54

Progressive renal dysfunction despite successful renal artery angioplasty in a single kidney [letter] Mikhail A, et al. **Lancet** 1997 Mar 29;349(9056):926

Amputation for premature peripheral atherosclerosis: do young patients do better? [comment] [see comments] Skinner JA, et al. **Lancet** 1996 Nov 23;348(9039):1396. Comment on: Lancet 1996 Nov 23;348(9039):1417–9. Comment in: Lancet 1997 Feb 1;349(9048):362.

Comparative study of Nd:YAG laser angioplasty at 1.06 microns, 1.32 microns, and 1.44 microns wavelengths: decreased vascular spasm and early mortality with 1.44 microns laser ablation. Bauer J, et al. **Lasers Surg Med** 1996;19(3):299–310

Occurrence and magnitude of pressure waves during Er:YAG laser ablation of atherosclerotic tissue: comparison to XeCl excimer laser ablation. Rose CH, et al. **Lasers Surg Med** 1996;19(3):273–83

Atherosclerotic femoral artery aneurysms: increase in deep femoral aneurysms? Levi N, et al. **Panminerva Med** 1996 Sep;38(3):164–6

Posterior exposure for popliteal-crural bypass: a useful approach. Ouriel K. **Semin Vasc Surg** 1997 Mar;10(1):23–30

An analysis of perioperative surgical mortality and morbidity in the asymptomatic carotid atherosclerosis study [letter; comment] Lownie SP. **Stroke** 1997 Aug;28(8):1648. Comment on: Stroke 1996 Dec;27(12):2216–24.

Late outcome of patients with premature carotid atherosclerosis after carotid endarterectomy. Valentine RJ, et al. **Stroke** 1996 Sep;27(9):1502–6

An analysis of perioperative surgical mortality and morbidity in the asymptomatic carotid atherosclerosis study. ACAS Investigators. Asymptomatic Carotid Artheriosclerosis Study [see comments] Young B, et al. **Stroke** 1996 Dec; 27(12):2216–24. Comment in: Stroke 1997 Aug;28(8):1648.

Videoendoscopic vascular surgery on aortoiliac vessels. An experimental study. Said S, et al. **Surg Endosc** 1996 Dec; 10(12):1140–4

Impact of cholesterol reduction on peripheral arterial disease in the Program on the Surgical Control of the Hyperlipidemias (POSCH). Buchwald H, et al. **Surgery** 1996 Oct;120(4):672–9

Revascularization of the solitary kidney: a challenging problem in a high risk population. Reilly JM, et al. **Surgery** 1996 Oct;120(4):732–6; discussion 736–7

The prevalence of lung cancer in vascular surgery patients. Gawenda M, et al. **Thorac Cardiovasc Surg** 1996 Dec; 44(6):304–7

[Should aortic atheromatous plaques be excised?] Gandjbakhch I, et al. **Arch Mal Coeur Vaiss** 1997 May;90 Spec No 2:25–8 (Eng. Abstr.) **(Fre)**

[Laparoscopy-assisted aortoiliac reconstructions] Kolvenbach R, et al. **Langenbecks Arch Chir** 1997; 382(3):119–22 (Eng. Abstr.) **(Ger)**

[Debakey IIIb aortic dissection from a distal arch atherosclerotic aneurysm--a case report] Hayashi S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):569–71 (9 ref.) (Eng. Abstr.) **(Jpn)**

[The treatment problems in atherosclerotic vascular occlusions] Genyk SN. **Vestn Khir Im I I Grek** 1996; 155(4):104–6 (34 ref.) **(Rus)**

[The diagnosis and treatment of chronic cerebrovascular insufficiency in atherosclerotic stenosis or occlusion of the carotid artery] Zubkov IuN, et al. **Vestn Khir Im I I Grek** 1997;156(3):15–8 (Eng. Abstr.) **(Rus)**

[Restenosis--elusive shadow of vascular biology. New discoveries set hopes about future therapy] Hedin U. **Lakartidningen** 1997 Jun 25;94(26–27):2481–4 (20 ref.) **(Swe)**

THERAPY

Anti-adhesion therapy. Cornejo CJ, et al. **Adv Pharmacol** 1997;39:99–142 (200 ref.)

Low-density lipoprotein removal methods by membranes and future perspectives. Matsuda Y, et al. **Artif Organs** 1996 Apr;20(4):346–54 (37 ref.)

Complications during renal artery stent placement for atherosclerotic ostial stenosis. Beek FJ, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):184–90

Arterial thrombin activity after angioplasty in an atherosclerotic rabbit model: time course and effect of hirudin. Barry WL, et al. **Circulation** 1996 Jul 1;94(1):88–93

Collagen content is significantly lower in restenotic versus nonrestenotic vessels after balloon angioplasty in the atherosclerotic rabbit model. Coats WD Jr, et al. **Circulation** 1997 Mar 4;95(5):1293–300

Can a viral serine proteinase inhibitor prevent postangioplasty restenosis? [editorial; comment] Haber E. **Circulation** 1996 Dec 1;94(11):2694–5. Comment on: Circulation 1996 Dec 1;94(11):2890–900.

Arterial remodeling after balloon angioplasty or stenting in an atherosclerotic experimental model. Post MJ, et al. **Circulation** 1997 Aug 5;96(3):996–1003

Reduction of restenosis after angioplasty in an atheromatous rabbit model by suicide gene therapy. Steg PG, et al. **Circulation** 1997 Jul 15;96(2):408–11

Improved procedural results of coronary angioplasty with intravascular ultrasound-guided balloon sizing: the CLOUT Pilot Trial. Clinical Outcomes With Ultrasound Trial (CLOUT) Investigators. Stone GW, et al. **Circulation** 1997 Apr 15;95(8):2044–52

A four-year audit of interventional treatment for atheromatous renal artery stenosis. Donohoe P, et al. **Contrib Nephrol** 1996;119:78–82

A decade of subclavian angioplasty: aortoarteritis versus atherosclerosis. Tyagi S, et al. **Indian Heart J** 1996 Nov–Dec;48(6):667–71

Iliac transluminal angioplasty and distal surgical revascularisation can be performed in a one-step technique. Alimi Y, et al. **Int Angiol** 1997 Jun;16(2):83–7

Gene therapy for atherosclerosis. Rader DJ. **Int J Clin Lab Res** 1997;27(1):35–43 (85 ref.)

Radiological case of the month. Bilateral iliac artery atherosclerosis treated with balloon angioplasty and stent placement. Christy GW, et al. **J Ark Med Soc** 1997 Mar; 93(10):499–501

Treatment of coronary heart disease by diet and exercise. Schlierf G, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 4:S32–4

Iliac and femoropopliteal lesions: evaluation of balloon angioplasty and classical surgery. Becquemin JP, et al. **J Endovasc Surg** 1995 Feb;2(1):42–50

Strecker stents in the femoropopliteal arteries: value of duplex ultrasonography in restenosis assessment. Bray AE, et al. **J Endovasc Surg** 1995 May;2(2):150–60

Techniques for endovascular recanalization of supra-aortic trunks. Criado FJ, et al. **J Endovasc Surg** 1996 Nov; 3(4):405–13 (48 ref.)

Atherosclerotic risk factors are less intensively treated in patients with peripheral arterial disease than in patients with coronary artery disease. McDermott MM, et al. **J Gen Intern Med** 1997 Apr;12(4):209–15

Albuminuria predicts renal functional outcome after intervention in atheromatous renovascular disease. Halimi JM, et al. **J Hypertens** 1995 Nov;13(11):1335–42

Supra-aortic arterial stenoses: management with Palmaz balloon-expandable intraluminal stents. Lyon RD, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):825–35

Cragg Endopro System I: early experience. I.Femoral arteries. Maynar M, et al. **J Vasc Interv Radiol** 1997 Mar–Apr;8(2):203–7

Percutaneous transluminal angioplasty and primary stenting of the iliac arteries in 288 patients. Sullivan TM, et al. **J Vasc Surg** 1997 May;25(5):829–38; discussion 838–9

Effect of renal-artery stenting on progression of renovascular renal failure [see comments] Harden PN, et al. **Lancet** 1997 Apr 19;349(9059):1133–6. Comment in: Lancet 1997 Apr 19;349(9059):1115–6. Comment in: Lancet 1997 Jun 21;349(9068):1839–40. Comment in: Lancet 1997 Jun 21;349(9068):1840.

Spinal cord stimulation for premature peripheral atherosclerosis [letter; comment] Miles J. **Lancet** 1997 Feb 1;349(9048):362. Comment on: Lancet 1996 Nov 23;348(9039):1396.

Nitric oxide and atherosclerosis: possible implications for therapy. Bult H. **Mol Med Today** 1996 Dec;2(12):510–8 (47 ref.)

Vaccine for atherosclerosis [news] O'Brien C. **Mol Med Today** 1997 Jun;3(6):231

Treatment of ostial renal-artery stenoses with vascular endoprostheses after unsuccessful balloon angioplasty [see comments] Blum U, et al. **N Engl J Med** 1997 Feb 13; 336(7):459–65. Comment in: N Engl J Med 1997 Jul 10;337(2):132–3.

Regression of atherosclerosis: a review. Schell WD, et al. **Prog Cardiovasc Dis** 1997 Mar–Apr;39(5):483–96 (46 ref.)

Carotid angioplasty [editorial; comment] Hurst RW. **Radiology** 1996 Dec;201(3):613–6. Comment on: Radiology 1996 Dec;201(3):627–36.

Stent placement after iliac angioplasty: comparison of hemodynamic and angiographic criteria. Dutch Iliac Stent Trial Study Group [see comments] Tetteroo E, et al. **Radiology** 1996 Oct;201(1):155–9. Comment in: Radiology 1996 Oct;201(1):18–20.

Carotid artery stenosis: treatment with protected balloon angioplasty and stent placement [see comments] Theron JG, et al. **Radiology** 1996 Dec;201(3):627–36. Comment in: Radiology 1996 Dec;201(3):613–6.

Growth-arrest homeobox gene Gax: a molecular strategy to prevent arterial restenosis. Maillard L, et al. **Schweiz Med Wochenschr** 1996 Oct 12;126(41):1721–6

A new paradigm: the vascular center. Whittemore A. **Semin Vasc Surg** 1997 Jun;10(2):93–7

Percutaneous transluminal angioplasty of the symptomatic atherosclerotic carotid arteries. Results, complications, and follow-up. Gil-Peralta A, et al. **Stroke** 1996 Dec; 27(12):2271–3

Stenting for abdominal aortic occlusive disease. Long-term results. Martinez R, et al. **Tex Heart Inst J** 1997;24(1):15–22

Atherosclerotic vascular disease: will folate or gene therapy be useful? Heistad DD, et al. **Trans Am Clin Climatol Assoc** 1996;108:69–76; discussion 76–7 (21 ref.)

Blue toes due to floating plaque of the abdominal aorta: endovascular repair with stent. Do DD, et al. **Vasa** 1997 May;26(2):132–4

[Use of PTCA in a gastroepiploic aortocoronary graft] Kováč J, et al. **Vnitr Lek** 1997 Feb;43(2):98–101 (Eng. Abstr.) **(Cze)**

[Compensatory enlargement versus chronic constriction. The two features of vascular remodelling after experimental angioplasty] Lafont A, et al. **Arch Mal Coeur Vaiss** 1997 Jun;90(6):827–34 (54 ref.) (Eng. Abstr.) **(Fre)**

[Angioplasty of three intracranial vertebro-basilar atherosclerotic stenoses] Houdart E. **Bull Acad Natl Med** 1997 Feb;181(2):333–9; discussion 339–40 (Eng. Abstr.) **(Fre)**

[The successful percutaneous revascularization of a subacute renal artery obstruction] Weishaupt D, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):269–72 (15 ref.) **(Ger)**

[Current problems in treating atherosclerosis (editorial)] Kukharchuk VV. **Ter Arkh** 1996;68(12):5–7 **(Rus)**

[The efficacy of antithrombotic therapy after total obliteration-reversing therapy in atherosclerotic arterial occlusion of the lower extremities] Luk'ianov IuV, et al. **Vestn Khir Im I I Grek** 1997;156(1):62–5 (Eng. Abstr.) **(Rus)**

[A comparison of the results of the surgical and the conservative corrections of hyperlipidemia in treating atherosclerosis] Ratner GL, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):31–3 (Eng. Abstr.) **(Rus)**

[Prevention and therapy of atherosclerosis] Gajdoš M, et al. **Bratisl Lek Listy** 1996 Jul;97(7):382–7 (Eng. Abstr.) **(Slo)**

ULTRASONOGRAPHY

Role of Doppler ultrasound in screening for carotid atherosclerotic disease. Halpern EJ. **Acad Radiol** 1996 Aug; 3(8):688–91; discussion 691–3

Depiction of carotid plaque ulceration and other plaque-related disorders by intravascular sonography: a flow chamber study. Miskolczi L, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1881–90

Are soft echoes really soft? Intravascular ultrasound assessment of mechanical properties in human atherosclerotic tissue. Hiro T, et al. **Am Heart J** 1997 Jan; 133(1):1–7

Variability in tissue characterization of atherosclerotic plaque by intravascular ultrasound: a comparison of four intravascular ultrasound systems. Hiro T, et al. **Am J Card Imaging** 1996 Oct;10(4):209–18

Frequency and distribution of atherosclerotic plaques in the thoracic aorta as determined by transesophageal echocardiography in patients with coronary artery disease. Khoury Z, et al. **Am J Cardiol** 1997 Jan 1;79(1):23–7

Comparison of intravascular ultrasound measurements at the sites of balloon dilatations of femoral arteries with measurements of postmortem gross arterial segments at the same sites. Luo H, et al. **Am J Cardiol** 1997 Jun 1; 79(11):1564–7

Influence of lifestyle modification on atherosclerotic progression determined by ultrasonographic change in the common carotid intima-media thickness. Markus RA, et al. **Am J Clin Nutr** 1997 Apr;65(4):1000–4

Echo color Doppler imaging of carotid vessels in hemodialysis patients: evidence of high levels of atherosclerotic lesions. Pascazio L, et al. **Am J Kidney Dis** 1996 Nov;28(5):713–20

Use of intravascular ultrasound in the endovascular management of atherosclerotic aortoiliac occlusive disease. Arko F, et al. **Am J Surg** 1996 Nov;172(5):546–9; discussion 549–50

Severity of aortic atheromatous disease diagnosed by transesophageal echocardiography predicts stroke and other outcomes associated with coronary artery surgery: a prospective study. Hartman GS, et al. **Anesth Analg** 1996 Oct;83(4):701–8

Ultrasonographic and histologic characteristics of symptom-free and symptomatic carotid plaque. Kardoulas DG, et al. **Cardiovasc Surg** 1996 Oct;4(5):580–90

Atherosclerotic aortic plaque detected by transesophageal echocardiography: its significance and limitation as a marker for coronary artery disease in the elderly. Matsumura Y, et al. **Chest** 1997 Jul;112(1):81–6

Estrogen therapy, atherosclerosis, and clinical cardiovascular events [editorial; comment] Anderson HV. **Circulation** 1996 Oct 15;94(8):1809–11. Comment on: Circulation 1996 Oct 15;94(8):1857–63.

Intravascular and intracardiac ultrasound: a tool of the future. Hoit BD. **Crit Care Clin** 1996 Apr;12(2):451–70 (70 ref.)

Carotid intima-media thickness in hyperlipidemic type I and type II diabetic patients. Kanters SD, et al. **Diabetes Care** 1997 Mar;20(3):276–80

Cerebral microembolism in atherosclerotic carotid artery disease: facts and perspectives. Sitzer M, et al. **Funct Neurol** 1995 Nov–Dec;10(6):251–8 (45 ref.)

The relative effect of carotid plaque heterogeneity and echogenicity on ipsilateral cerebral infarction and symptoms of cerebrovascular disease. el-Barghouti N, et al. **Int Angiol** 1996 Dec;15(4):300–6

The ultrasonic evaluation of the carotid intima-media thickness and its relation to risk factors of atherosclerosis in normal and diabetic population. el-Barghouti N, et al. **Int Angiol** 1997 Mar;16(1):50–4

Aortic atherosclerosis and perioperative stroke in patients undergoing coronary artery bypass: role of intra-operative transesophageal echocardiography. Choudhary SK, et al. **Int J Cardiol** 1997 Aug 29;61(1):31–8

Intraoperative transesophageal echocardiography and epiaortic ultrasound for assessment of atherosclerosis of the thoracic aorta. Dávila-Román VG, et al. **J Am Coll Cardiol** 1996 Oct;28(4):942–7

Intraoperative epiaortic ultrasound during cardiac surgery. Nicolosi AC, et al. **J Card Surg** 1996 Jan–Feb;11(1):49–55

Strecker stents in the femoropopliteal arteries: value of duplex ultrasonography in restenosis assessment. Bray AE, et al. **J Endovasc Surg** 1995 May;2(2):150–60

In vivo detection of carotid plaque thrombus by ultrasonic tissue characterization. Noritomi T, et al. **J Ultrasound Med** 1997 Feb;16(2):107–11

The Multicenter Isradipine Diuretic Atherosclerosis Study (MIDAS) [letter; comment] Kaufman JL. **JAMA** 1997 Jan 22–29;277(4):297; discussion 297–8. Comment on: JAMA 1996 Sep 11;276(10):785–91.

Echographical assessment of the early stage of experimental atherosclerosis of the descending aorta in rabbits. Hiromoto M, et al. **Jpn Circ J** 1996 Sep;60(9):691–8

Preoperative detection of the composition of atherosclerotic plaque in the carotid artery using ultrasonography and magnetic resonance imaging. Tenjin H, et al. **Neurol Med Chir (Tokyo)** 1997 Jul;37(7):505–10; discussion 510–1

Evaluation and characterization of carotid plaque. Bluth EI. **Semin Ultrasound CT MR** 1997 Feb;18(1):57–65 (52 ref.)

Ultrasound densitometric analysis of carotid plaque composition. Pathoanatomic correlation. Beletsky VY, et al. **Stroke** 1996 Dec;27(12):2173–7

Ethnic differences in carotid wall thickness. The Insulin Resistance Atherosclerosis Study. D'Agostino RB Jr, et al. **Stroke** 1996 Oct;27(10):1744–9

In vivo association between low wall shear stress and plaque in subjects with asymmetrical carotid atherosclerosis. Gnasso A, et al. **Stroke** 1997 May;28(5):993–8

Echolucent carotid artery plaques are associated with elevated levels of fasting and postprandial triglyceride-rich lipoproteins. Grønholdt ML, et al. **Stroke** 1996 Dec; 27(12):2166–72

Bone changes and carotid atherosclerosis in postmenopausal women. Uyama O, et al. **Stroke** 1997 Sep;28(9):1730–2

Possible sources of cryptogenic cerebral emboli as revealed by transesophageal echocardiography. Ansari A, et al. **Tex Heart Inst J** 1996;23(2):184

Ultrasonic-pathologic comparison of postangioplasty myointimal hyperplasia and primary atheroma of the superficial femoral artery. Baumgartner I, et al. **Ultrasound Med Biol** 1996;22(7):815–21

Correlation of ultrasonic attenuation (30 to 50 MHz and constituents of atherosclerotic plaque. Bridal SL, et al. **Ultrasound Med Biol** 1997;23(5):691–703

Variability in B-mode ultrasound measurements in the atherosclerosis risk in communities (ARIC) study. Chambless LE, et al. **Ultrasound Med Biol** 1996; 22(5):545–54

Intravascular elasticity imaging using ultrasound: feasibility studies in phantoms. de Korte CL, et al. **Ultrasound Med Biol** 1997;23(5):735–46

Reproducibility of extracranial carotid atherosclerotic lesions assessed by B-mode ultrasound: the Atherosclerosis Risk in Communities Study. Li R, et al. **Ultrasound Med Biol** 1996;22(7):791–9

Carotid plaque typing by multiple-parameter ultrasonic tissue characterization. Noritomi T, et al. **Ultrasound Med Biol** 1997;23(5):643–50

Assessment of temporal bias in longitudinal measurements of carotid intimal-medial thickness in the Asymptomatic Carotid Artery Progression Study (ACAPS). ACAPS Research Group. Riley WA, et al. **Ultrasound Med Biol** 1996;22(4):405–11

The effect of variations in transducer position and sound speed in intravascular ultrasound: a theoretical study. Thompson RS, et al. **Ultrasound Med Biol** 1996; 22(6):719–34

[Transesophageal echographic demonstration of ulcerated atheromatous plaques of the thoracic aorta responsible for cholesterol emboli] Mirode A, et al. **Ann Cardiol Angeiol (Paris)** 1997 Mar;46(3):151–3 (Eng. Abstr.) **(Fre)**

[Intravascular echography] Tardif JC. **Ann Cardiol Angeiol (Paris)** 1996 Oct;45(8):459–63 (Eng. Abstr.) **(Fre)**

[Evaluation of aortic atherosclerosis by transesophageal echocardiography. Prognostic implications] Cohen A, et al. **Arch Mal Coeur Vaiss** 1997 May;90 Spec No 2:11–23 (88 ref.) (Eng. Abstr.) **(Fre)**

[Ultrasonographic study of the arterial walls: application to the detection of preclinical atherosclerosis] Simon A, et al. **Arch Mal Coeur Vaiss** 1997 May;90 Spec No 2:7–10 (26 ref.) (Eng. Abstr.) **(Fre)**

[Evaluation of a computer graphic representation of echo-Doppler (Echotrace) in the assessment of atherosclerosis of the legs] Fauvel G, et al. **J Mal Vasc** 1996;21(3):136–40 (Eng. Abstr.) **(Fre)**

[Usefulness of Doppler color ultrasonography for the non-invasive diagnosis of the atherosclerotic plaque] Ciccone M, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):283–5 **(Ita)**

[White coat arterial hypertension: ultrasonographic study of the carotid arteries] Pellegrino L, et al. **Cardiologia** 1996 Aug;41(8):767–75 (49 ref.) (Eng. Abstr.) **(Ita)**

[Evaluation of the degree of atherosclerosis by ultrasonic echo phase tracking system (Use-PT system)] Hasegawa M. **Nippon Rinsho** 1997 Mar;55 Suppl 1:691–3 (3 ref.) **(Jpn)**

[Evaluation of atherosclerosis by ultrasonography] Teranishi J, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:694–6 (7 ref.) **(Jpn)**

[Risk factors related to the wall thickness of the common carotid artery in elderly patients] Kawamoto R, et al. **Nippon Ronen Igakkai Zasshi** 1996 Nov;33(11):835–9 (Eng. Abstr.) **(Jpn)**

[Protruding plaques of the thoracic aorta in the transesophageal echocardiogram: clinical and echographic characteristics] Cárdenas F. **Rev Med Chil** 1996 Sep; 124(9):1093–9 (Eng. Abstr.) **(Spa)**

URINE

Albuminuria predicts renal functional outcome after intervention in atheromatous renovascular disease. Halimi JM, et al. **J Hypertens** 1995 Nov;13(11):1335–42

VETERINARY

Heart failure in a macaw with atherosclerosis of the aorta and brachiocephalic arteries. Phalen DN, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1435–40

VIROLOGY

Viral activation of coagulation: implications for thrombosis and atherosclerosis. Hajjar DP, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:155–65; discussion 165–7 (68 ref.)

Patients with diabetes mellitus and atherosclerosis; a role for cytomegalovirus? Visseren FL, et al. **Diabetes Res Clin Pract** 1997 Apr;36(1):49–55

ATHEROSCLEROSIS, CORONARY see **CORONARY**

ARTERIOSCLEROSIS

ATHETOSIS

CHEMICALLY INDUCED

Dyskinesia from manganism in a hepatic dysfunction patient. Sue WC, et al. **Acta Paediatr Sin** 1996 Jan–Feb;37(1):59–64
Choreoathetosis as a side effect of gabapentin therapy in severely neurologically impaired patients. Chudnow RS, et al. **Arch Neurol** 1997 Jul;54(7):910–2
Pemoline induced acute choreoathetosis: case report and review of the literature. Stork CM, et al. **J Toxicol Clin Toxicol** 1997;35(1):105–8 (22 ref.)
Neurological manifestations of kava intoxication [letter] Spillane PK, et al. **Med J Aust** 1997 Aug 4;167(3):172–3

COMPLICATIONS

[Kinesigenic supplementary motor seizure? A case report] Takahashi K, et al. **Rinsho Shinkeigaku** 1997 Jan;37(1):67–9 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Epilepsy or paroxysmal kinesigenic choreoathetosis? Beaumanoir A, et al. **Brain Dev** 1996 Mar–Apr;18(2):139–41
Paroxysmal choreoathetosis. Lüders HO. **Eur Neurol** 1996; 36 Suppl 1:20–3 (13 ref.)
Paroxysmal choreoathetosis in a patient with idiopathic basal ganglia calcification, chorea, and dystonia. Klein C, et al. **Mov Disord** 1997 Mar;12(2):254–5
Choreoathetosis in acquired immune deficiency syndrome patients with cerebral toxoplasmosis. Maggi P, et al. **Mov Disord** 1996 Jul;11(4):434–6
Paroxysmal kinesigenic choreoathetosis [letter; comment] Lambroso CT. **Neurology** 1997 Aug;49(2):642. Comment on: Neurology 1996 Oct;47(4):1104–6.

ETIOLOGY

Extracardiac Fontan operation without cardiopulmonary bypass. Burke RP, et al. **Ann Thorac Surg** 1997 Apr; 63(4):1175–7

GENETICS

Absent nails, kinesogenic choreoathetosis, epilepsy and developmental delay—a new autosomal dominant disorder? Lynch SA, et al. **Clin Dysmorphol** 1997 Apr;6(2):133–8
Paroxysmal choreoathetosis—a disorder related to Huntington's disease? [letter] Scheidtmann K, et al. **J Neurol** 1997 Jun;244(6):395–8
Familial paroxysmal dystonic choreoathetosis revisited. Schloesser DT, et al. **Mov Disord** 1996 May;11(3):317–20
Paroxysmal dystonic choreoathetosis linked to chromosome 2q: clinical analysis and proposed pathophysiology. Fink JK, et al. **Neurology** 1997 Jul;49(1):177–83

PHYSIOPATHOLOGY

Spinal pseudoathetosis: a rare, forgotten syndrome, with a review of old and recent descriptions. Ghika J, et al. **Neurology** 1997 Aug;49(2):432–7
Paroxysmal kinesigenic choreoathetosis [letter; comment] Lambroso CT. **Neurology** 1997 Aug;49(2):642. Comment on: Neurology 1996 Oct;47(4):1104–6.
Paroxysmal kinesigenic choreoathetosis. Choi IS, et al. **Yonsei Med J** 1996 Feb;37(1):68–71 (22 ref.)

ATHIORHODACEAE see **RHODOSPIRILLACEAE**

ATHLETE'S FOOT see **TINEA PEDIS**

ATHLETIC INJURIES

Direct injury to the axillary nerve in athletes playing contact sports. Perlmutter GS, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):65–8
Sports medicine. Shoulder pain. Part III: Shoulder instability. Brukner P. **Aust Fam Physician** 1996 Dec;25(12):1853–5
Injury surveillance at a national multi-sport event. Cunningham C, et al. **Aust J Sci Med Sport** 1996 Jun; 28(2):50–6
Head injuries in sport. Cantu RC. **Br J Sports Med** 1996 Dec;30(4):289–96 (50 ref.)
Exercise induced leg pain–chronic compartment syndrome. Is the increase in intra-compartment pressure exercise specific? Padhiar N, et al. **Br J Sports Med** 1996 Dec; 30(4):360–2
Tournament water skiing trauma. Roberts SN, et al. **Br J Sports Med** 1996 Jun;30(2):90–3
Lower leg, foot, and ankle injuries in young athletes. Stanish WD. **Clin Podiatr Med Surg** 1997 Jul;14(3):559–78 (71 ref.)
Achilles and peroneal tendon injuries in the athlete. An expert's perspective. Subotnick SI. **Clin Podiatr Med Surg** 1997 Jul;14(3):447–58 (25 ref.)
Soft-tissue injuries and muscle tears. Best TM. **Clin Sports Med** 1997 Jul;16(3):419–34 (44 ref.)
Leg injuries. Blue JM, et al. **Clin Sports Med** 1997 Jul; 16(3):467–78 (37 ref.)
Athletic head injuries. Cantu RC. **Clin Sports Med** 1997 Jul; 16(3):531–42 (18 ref.)
Primary care of foot and ankle injuries in the athlete. Clanton TO, et al. **Clin Sports Med** 1997 Jul;16(3):435–66 (71 ref.)
Common athletic knee injuries. Fadale PD, et al. **Clin Sports Med** 1997 Jul;16(3):479–99 (67 ref.)
Sports-related facial injuries. Kaufman BR, et al. **Clin Sports Med** 1997 Jul;16(3):543–62 (6 ref.)
Stress fractures: general concepts. Knapp TP, et al. **Clin Sports Med** 1997 Apr;16(2):339–56 (39 ref.)
Stress injury to bone in the female athlete. Nattiv A, et al. **Clin Sports Med** 1997 Apr;16(2):197–224 (131 ref.)
Nonarticular rheumatism, sports-related injuries, and related conditions. **Curr Opin Rheumatol** 1997 Mar;9(2):B42–65
Sports-related and other soft-tissue injuries, tendinitis, bursitis, and occupation-related syndromes [see comments] Biundo JJ Jr, et al. **Curr Opin Rheumatol** 1997 Mar; 9(2):151–4 (20 ref.). Comment in: Curr Opin Rheumatol 1997 Mar;9(2):133–43.
Nonarticular rheumatism, sports-related injuries, and related conditions [editorial; comment] Pinals RS. **Curr Opin Rheumatol** 1997 Mar;9(2):133–4. Comment on: Curr Opin Rheumatol 1997 Mar;9(2):144–50. Comment on: Curr Opin Rheumatol 1997 Mar;9(2):151–4. Comment on: Curr Opin Rheumatol 1997 Mar;9(2):155–8. Comment on: Curr Opin Rheumatol 1997 Mar;9(2):159–64. Comment on: Curr Opin Rheumatol 1997 Mar;9(2):165–73.
Hyperextension injury causing abdominal aortic rupture. Almeida AA, et al. **Eur J Vasc Endovasc Surg** 1997 Feb; 13(2):247–8
A study of intrinsic factors in patients with stress fractures of the tibia. Ekenman I, et al. **Foot Ankle Int** 1996 Aug; 17(8):477–82
Traumatology—the Achilles heel in the rehabilitation of cardiovascular outpatients? Unverdorben M, et al. **Int J Sports Med** 1997 Jan;18(1):62–5
Cutaneous manifestations of sports participation. Pharis DB, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):448–59 (110 ref.)
Proximal rupture of the biceps brachii with slingshot displacement into the forearm. A case report. Moorman CT, et al. **J Bone Joint Surg Am** 1996 Nov;78(11):1749–52
Lower extremity problems in female athletes. Baker CL Jr. **J Med Assoc Ga** 1997 Sep;86(3):193–6 (25 ref.)
Avulsion fractures of the anterior superior iliac spine in adolescents. Rosenberg N, et al. **J Orthop Trauma** 1996; 10(6):440–3
Rupture of the long head of the triceps muscle in a child: case report and review of the literature. Sheps D, et al. **J Trauma** 1997 Feb;42(2):318–20
From the Centers for Disease Control and Prevention. Sports-related recurrent brain injuries—United States. **JAMA** 1997 Apr 16;277(15):1190–1
Serious injuries in jet skiers. Swinburn EE. **Med J Aust** 1996 Dec 2–16;165(11–12):606–9
Stingers, transient quadriplegia, and cervical spinal stenosis: return to play criteria. Cantu RC. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S233–5
Suggested management guidelines for participation in collision activities with congenital, developmental, or postinjury lesions involving the cervical spine. Torg JS, et al. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S256–72
Sports-related recurrent brain injuries—United States. **MMWR Morb Mortal Wkly Rep** 1997 Mar 14;46(10):224–7
Acute focal neuropathy in male weight lifters. Bird SJ, et al. **Muscle Nerve** 1996 Jul;19(7):897–9
Injuries associated with personal watercraft. An emerging epidemic in need of legislative action. Tyler BC, et al. **N C Med J** 1997 Jul–Aug;58(4):284–7
A young man with acute renal failure and severe loin pain. Izumi M, et al. **Nephron** 1997;76(2):215–7
Traumatic inferior hip dislocation in an adult (luxatio erecta). Bartley RE 3d, et al. **Orthopedics** 1995 Dec;18(12):1173–4
Sports-related eye injuries. Jeffers JB. **Pa Med** 1996 Mar;99 Suppl:76–83
Tendons—a source of major concern in competitive and recreational athletes [editorial] Kannus P. **Scand J Med Sci Sports** 1997 Apr;7(2):53–4
Diagnosis and treatment of chronic tendon disorders in sports. Sandmeier R, et al. **Scand J Med Sci Sports** 1997 Apr;7(2):96–106
Skateboarding injuries. Fountain JL, et al. **Sports Med** 1996 Dec;22(6):360–6 (46 ref.)
Medial collateral ligament injuries in athletes. Reider B. **Sports Med** 1996 Feb;21(2):147–56 (56 ref.)
Out-of-control snowboarders [letter; comment] Wise SA. **West J Med** 1996 Oct;165(4):252. Comment on: West J Med 1996 Mar;164(3):231–7.
[Injury pattern in a sports club with its own sports physician] Fredberg U, et al. **Ugeskr Laeger** 1997 May 19; 159(21):3147–50 (Eng. Abstr.) **(Dan)**
[Knee instability in sportsmen due to anterior cruciate ligament tear] Soudry M, et al. **Harefuah** 1996 Jun 16; 130(12):863–7 (42 ref.) **(Heb)**
[Minor athletic head injuries (letter)] Austgulen OK. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):410 **(Nor)**

BLOOD

ABO blood group and Achilles tendon rupture. Leppilahti J, et al. **Ann Chir Gynaecol** 1996;85(4):369–71

CLASSIFICATION

Shoulder symptoms in healthy athletes: a comparison of outcome scoring systems. Soldatis JJ, et al. **J Shoulder Elbow Surg** 1997 May–Jun;6(3):265–71
Alternative approaches to the assessment of mild head injury in athletes. Guskiewicz KM, et al. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S213–21
Athletes with cervical spine injury. Maroon JC, et al. **Spine** 1996 Oct 1;21(19):2294–9 (21 ref.)

COMPLICATIONS

Acute myocardial infarction with origin of the left circumflex coronary artery from the right (anterior) aortic sinus with retroaortic course to the left atrioventricular sulcus. Schoebel FC, et al. **Am J Cardiol** 1996 Sep 15;78(6):720–1
Lower extremity arterial disease in sports. Abraham P, et al. **Am J Sports Med** 1997 Jul–Aug;25(4):581–4 (40 ref.)
Posterior shoulder laxity in asymptomatic athletes. McFarland EG, et al. **Am J Sports Med** 1996 Jul–Aug; 24(4):468–71
Distant entry pneumothorax in a competitive fencer. Harmer PA, et al. **Br J Sports Med** 1996 Sep;30(3):265–6
Blunt impact to the chest and sudden death in young athletes. Janda DH. **Clin J Sport Med** 1996 Jan;6(1):68
Injuries from hovercraft racing. Cattermole HR. **Injury** 1997 Jan;28(1):25–7 (0 ref.)
Does participation in sports cause osteoarthritis? Buckwalter JA, et al. **Iowa Orthop J** 1997;17:80–9 (73 ref.)
False aneurysm—a complication following an inversion ankle sprain: a case report. Bandy WD, et al. **J Orthop Sports Phys Ther** 1996 Apr;23(4):272–9
Posttraumatic gallbladder torsion in a child. Salman AB, et al. **J Pediatr Surg** 1996 Nov;31(11):1586
Complications of type I coronoid fractures in competitive athletes: report of two cases and review of the literature. Liu SH, et al. **J Shoulder Elbow Surg** 1996 May–Jun; 5(3):223–7 (18 ref.)
Chondromalacia of the trochlear notch in athletes who throw. Robla J, et al. **J Shoulder Elbow Surg** 1996 Jan–Feb; 5(1):69–72
The biomechanics of fast bowling in men's cricket: a review. Bartlett RM, et al. **J Sports Sci** 1996 Oct;14(5):403–24 (80 ref.)
Hypothenar hammer syndrome in sports. Müller LP, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(3):167–70 (23 ref.)
Surgical treatment of symptomatic, posttraumatic heterotopic ossification in the adductor mass off the pubic arch. Doukas WC, et al. **Orthopedics** 1996 Oct;19(10):893–5
Traumatic spinal cord injuries in Istanbul [letter; comment] [see comments] Pringle RG. **Spinal Cord** 1996 Aug; 34(8):498. Comment on: Paraplegia 1995 Aug;33(8):469–71. Comment in: Spinal Cord 1997 Mar;35(3):189.
[Fractures of the tibial tuberosity associated with avulsion of the patellar ligament in adolescents] Schiedts D, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995;81(7):635–8 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Diagnosis of lateral ankle ligament injuries. Comparison between talar tilt, MRI and operative findings in 112 athletes. Gaebler C, et al. **Acta Orthop Scand** 1997 Jun; 68(3):286–90
Chondrolysis of the shoulder following a "color test"-assisted rotator cuff repair—a report of 2 cases. Tamai K, et al. **Acta Orthop Scand** 1997 Aug;68(4):401–2
Medial elbow pain in the throwing athlete: MR imaging evaluation. Gaary EA, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):795–800
The diagnosis of meniscal tears in athletes. A comparison of clinical and magnetic resonance imaging investigations [letter; comment] Bernstein J. **Am J Sports Med** 1997 Jul–Aug;25(4):588–9. Comment on: Am J Sports Med 1997 Jan–Feb;25(1):7–12.
Diagnosis of anterolateral ankle impingement. Comparison between magnetic resonance imaging and clinical examination. Liu SH, et al. **Am J Sports Med** 1997 May–Jun;25(3):389–93
The superiority of magnetic resonance imaging in differentiating the cause of hip pain in endurance athletes. Shin AY, et al. **Am J Sports Med** 1996 Mar–Apr; 24(2):168–76
An intermeniscal fibrous band in a recreational runner [letter; comment] Lambert KL. **Arthroscopy** 1996 Jun;12(3):391–2 . Comment on: Arthroscopy 1995 Dec;11(6):735–7.
Symptomatic cyamella. Mishra AK, et al. **Arthroscopy** 1996 Jun;12(3):327–9
An intermeniscal fibrous band in a recreational runner [letter; comment] Warren RF, et al. **Arthroscopy** 1996 Jun; 12(3):390–1. Comment on: Arthroscopy 1995 Dec;11(6):735–7.
Overuse injuries. Part 2: tendons. Brukner P. **Aust Fam Physician** 1996 May;25(5):731, 734, 737
Sports medicine. Pain in the Achilles region. Brukner P. **Aust Fam Physician** 1997 Apr;26(4):463–5
Pain in the lower leg. Brukner P. **Aust Fam Physician** 1997 Mar;26(3):286–9
Injuries presenting to an Australian sports medicine centre: a 12-month study. Baquie P, et al. **Clin J Sport Med** 1997 Jan;7(1):28–31
Reflections on head injuries in sport and the concussion controversy [editorial] Cantu RC. **Clin J Sport Med** 1997 Apr;7(2):83–4
The anterior slide test for identifying superior glenoid labral tears. Wright SA, et al. **Clin J Sport Med** 1996 Jan;6(1):64

ATHLETIC INJURIES

The use of MR imaging in the assessment and clinical management of stress reactions of bone in high-performance athletes. Arendt EA, et al. **Clin Sports Med** 1997 Apr;16(2):291–306 (15 ref.)

Contemporary imaging of athletic injuries. Tung GA, et al. **Clin Sports Med** 1997 Jul;16(3):393–417 (46 ref.)

Radiology of sports-related injuries. Byers GE 3d, et al. **Curr Probl Diagn Radiol** 1996 Jan–Feb;25(1):1–49 (148 ref.)

Rupture of the anterior cruciate ligament--a quiet epidemic? Bollen SR, et al. **Injury** 1996 Jul;27(6):407–9

Sports injuries of the hand. Palmer RE. **Instr Course Lect** 1994;43:25–30 (1 ref.)

Tendon problems in athletic individuals. Teitz CC, et al. **Instr Course Lect** 1997;46:569–82 (76 ref.)

Ischial tuberosity apophysitis and avulsion among athletes. Kujala UM, et al. **Int J Sports Med** 1997 Feb;18(2):149–55

Thoracic outlet syndrome in a throwing athlete diagnosed with MRI and MRA. Esposito MD, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):598–9

Gamekeeper thumb: diagnosis of ulnar collateral ligament injury using magnetic resonance imaging, magnetic resonance arthrography and stress radiography. Harper MT, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):322–8

Diagnosis and treatment of stress fracture of the patella in athletes. Orava S, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(4):206–11

The imaging of sports injuries. Nelson MC. **Md Med J** 1996 Aug;45(8):659–69 (80 ref.)

The diagnosis and treatment of cervical radiculopathy. Malanga GA. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S236–45 (88 ref.)

Pitcher's arm: an electrodiagnostic enigma. Long RR, et al. **Muscle Nerve** 1996 Oct;19(10):1276–81

Diagnosis and management of concussion in sports. Kelly JP, et al. **Neurology** 1997 Mar;48(3):575–80 (49 ref.)

Neuropsychological functioning and recovery after mild head injury in collegiate athletes. Macciocchi SN, et al. **Neurosurgery** 1996 Sep;39(3):510–4

Tennis calf or tennis leg [see comments] Gilbert TJ Jr, et al. **Orthopedics** 1996 Feb;19(2):179, 182, 184. Comment in: Orthopedics 1996 May;19(5):377. Comment in: Orthopedics 1996 Aug;19(8):643.

Shin splints: MR appearance in a preliminary study. Anderson MW, et al. **Radiology** 1997 Jul;204(1):177–80

Acute injuries and specific problems in adult athletes. Barry NN, et al. **Rheum Dis Clin North Am** 1996 Aug; 22(3):531–49 (51 ref.)

The sportsman's hernia--fact or fiction? Fredberg U, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):201–4 (22 ref.)

MR arthrography of elbow: evaluation of the ulnar collateral ligament of elbow. Nakanishi K, et al. **Skeletal Radiol** 1996 Oct;25(7):629–34

MRI of complete rupture of the pectoralis major muscle. Ohashi K, et al. **Skeletal Radiol** 1996 Oct;25(7):625–8

Stress fractures. Current concepts of diagnosis and treatment. Reeder MT, et al. **Sports Med** 1996 Sep;22(3):198–212 (109 ref.)

[Outpatient sports clinic, first impressions (letter; comment)] Jansen FA. **Ned Tijdschr Geneeskd** 1996 Sep 28; 140(39):1967–8. Comment on: Ned Tijdschr Geneeskd 1996 Jul 27;140(30):1548–51. **(Dut)**

[Contusio cordis--too seldom diagnosed?] Hoppe UC, et al. **Med Klin** 1997 Jul 15;92(7):444–6 (Eng. Abstr.) **(Ger)**

[Assessment of shoulder pain in athletes] Biasca N, et al. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1123–35 (27 ref.) (Eng. Abstr.) **(Ger)**

[Osteolysis of the lateral clavicle after Tossy II injury in ice hockey players] Stöhr H, et al. **Sportverletz Sportschaden** 1996 Sep;10(3):70–3 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

The management of shoulder pain [letter] Downie WA. **Br J Hosp Med** 1997 May 21-Jun 3;57(10):531

Lovastatin increases exercise-induced skeletal muscle injury. Thompson PD, et al. **Metabolism** 1997 Oct;46(10):1206–10

Local corticosteroid injection in sport: review of literature and guidelines for treatment. Fredberg U. **Scand J Med Sci Sports** 1997 Jun;7(3):131–9 (128 ref.)

Injection techniques and use in the treatment of sports injuries. Scott WA. **Sports Med** 1996 Dec;22(6):406–16 (64 ref.)

[Topical treatment of soft tissue rheumatism and athletic injuries. Effectiveness and tolerance of a new ketoprofen gel] Link R, et al. **Fortschr Med** 1996 Sep 10;114(25):311–4 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Correlations between traffic, occupational, sports, and home accidents. Salminen S, et al. **Accid Anal Prev** 1997 Jan; 29(1):33–6

Repeated measures analysis of binary outcomes: applications to injury research. Williamson DS, et al. **Accid Anal Prev** 1996 Sep;28(5):571–9

The New Zealand Rugby Injury and Performance Project: alcohol use patterns within a cohort of rugby players. Quarrie KL, et al. **Addiction** 1996 Dec;91(12):1865–8

Epidemiology of anterior cruciate ligament injuries in soccer. Bjordal JM, et al. **Am J Sports Med** 1997 May–Jun; 25(3):341–5

Injuries in the sport of luge. Epidemiology and analysis. Cummings RS Jr, et al. **Am J Sports Med** 1997 Jul–Aug; 25(4):508–13

A statistics primer. Prevalence, incidence, relative risks, and odds ratios: some epidemiologic concepts in the sports medicine literature. Kuhn JE, et al. **Am J Sports Med** 1997 May–Jun;25(3):414–6

Knee injuries in women collegiate rugby players. Levy AS, et al. **Am J Sports Med** 1997 May–Jun;25(3):360–2

Is prevention of sports injuries a realistic goal? A four-year prospective investigation of sports injuries among physical education students. Twellaar M, et al. **Am J Sports Med** 1996 Jul–Aug;24(4):528–34

A retrospective study of cervical spine injuries in American rugby, 1970 to 1994. Wetzler MJ, et al. **Am J Sports Med** 1996 Jul–Aug;24(4):454–8

Sports injuries in children: should we be concerned? Helms PJ. **Arch Dis Child** 1997 Aug;77(2):161–3

The incidence of injury in surfboat rowers. Moseley L. **Aust J Sci Med Sport** 1996 Dec;28(4):97–100

Golf-related injuries seen at hospital emergency departments. Wilks J, et al. **Aust J Sci Med Sport** 1996 Jun;28(2):43–5

A descriptive epidemiology of netball injuries during competition: a five year study. Hopper D, et al. **Br J Sports Med** 1995 Dec;29(4):223–8

Trampoline injury in New Zealand: emergency care. Hume PA, et al. **Br J Sports Med** 1996 Dec;30(4):327–30

Provision of physiotherapy services at the sixth All Africa Games. Jelsma J, et al. **Br J Sports Med** 1997 Sep; 31(3):246–8

Influence of players' physique on rugby football injuries. Lee AJ, et al. **Br J Sports Med** 1997 Jun;31(2):135–8

Orienteering competition injuries: injuries incurred in the Finnish Jukola and Venla relay competitions. Linko PE, et al. **Br J Sports Med** 1997 Sep;31(3):205–8

Paediatric sports injuries in Hong Kong: a seven year survey. Maffulli N, et al. **Br J Sports Med** 1996 Sep;30(3):218–21

Low back pain and other overuse injuries in a group of Japanese triathletes. Manninen JS, et al. **Br J Sports Med** 1996 Jun;30(2):134–9

Injury consequences from participation in professional rugby league: a preliminary investigation. Meir RA, et al. **Br J Sports Med** 1997 Jun;31(2):132–4

The epidemiology of sports and exercise related injury in the United Kingdom. Nicholl JP, et al. **Br J Sports Med** 1995 Dec;29(4):232–8

Study of aeroball injuries. Sinha A, et al. **Br J Sports Med** 1997 Sep;31(3):200–4

Skiing injuries: the increasing workload. Williams RL, et al. **Br J Sports Med** 1995 Dec;29(4):252–4

A prospective study of rock climbing injuries. Wyatt JP, et al. **Br J Sports Med** 1996 Jun;30(2):148–50

Epidemiological analysis of injury in one year of Canadian professional rodeo. Butterwick DJ, et al. **Clin J Sport Med** 1996 Jul;6(3):171–7

Injuries in female collegiate swimmers due to swimming and cross training. McFarland EG, et al. **Clin J Sport Med** 1996 Jul;6(3):178–82

Head, neck, and facial injuries in ice hockey: the effect of protective equipment. Rampton J, et al. **Clin J Sport Med** 1997 Jul;7(3):162–7

Head injuries from bicycle accidents. Zentner J, et al. **Clin Neurol Neurosurg** 1996 Nov;98(4):281–5

Epidemiology and site specificity of stress fractures. Bennell KL, et al. **Clin Sports Med** 1997 Apr;16(2):179–96 (53 ref.)

The incidence of Achilles tendon rupture in Copenhagen. Levi N. **Injury** 1997 May;28(4):311–3

Differing injury patterns in snowboarding and alpine skiing. Sutherland AG, et al. **Injury** 1996 Jul;27(6):423–5

An epidemiological analysis of the injury pattern in indoor and in beach volleyball. Aagaard H, et al. **Int J Sports Med** 1997 Apr;18(3):217–21

Sports injuries in school gaelic football: a study over one season. Watson AW. **Ir J Med Sci** 1996 Jan–Mar; 165(1):12–6

A twelve month study of sports injuries in one Irish school. Weir MA, et al. **Ir J Med Sci** 1996 Jul–Sep;165(3):165–9

Eye injury and sport: sport-related eye injuries presenting to an eye casualty department throughout 1995. Lynch P, et al. **Ir Med J** 1997 Apr–May;90(3):112–4

Sports related ocular trauma: a preventable epidemic [editorial] Classe JG. **J Am Optom Assoc** 1996 Feb; 67(2):66–7

Ocular sports trauma: a private practice study. Orlando RG, et al. **J Am Optom Assoc** 1996 Feb;67(2):77–80

Trends in the incidence and cause of sport-related mandibular fractures: a retrospective analysis. Emshoff R, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):585–92

Sports injuries in British troops deployed on Operation Resolute (Bosnia). Adams MS, et al. **J R Army Med Corps** 1997 Feb;143(1):35–8

American football injuries in Germany. First results from Bundesliga football. Baltzer AW, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):46–9

Subject-related risk factors for sports injuries: a 1-yr prospective study in young adults. Van Mechelen W, et al. **Med Sci Sports Exerc** 1996 Sep;28(9):1171–9

Bull riding-related brain and spinal cord injuries--Louisiana, 1994–1995. **MMWR Morb Mortal Wkly Rep** 1996 Sep 20; 45(37):796–8

Snowboard traumatology: an epidemiological study. Pigozzi F, et al. **Orthopedics** 1997 Jun;20(6):505–9

Single rope tree swing injuries among children. Albanese CT, et al. **Pediatrics** 1997 Apr;99(4):548–50

Sports, exercise, and other causes of injuries: results of a population survey. Uitenbroek DG. **Res Q Exerc Sport** 1996 Dec;67(4):380–5

Injuries in elite volleyball. Aagaard H, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):228–32

Incidence of acute volleyball injuries: a prospective cohort study of injury mechanisms and risk factors. Bahr R, et al. **Scand J Med Sci Sports** 1997 Jun;7(3):166–71

The epidemiology of sports injuries in school-aged children. Sørensen L, et al. **Scand J Med Sci Sports** 1996 Oct; 6(5):281–6

Sports-related spinal cord injury in Japan (from the nationwide spinal cord injury registry between 1990 and 1992). Katoh S, et al. **Spinal Cord** 1996 Jul;34(7):416–21

Eye injuries in athletics and recreation. Napier SM, et al. **Surv Ophthalmol** 1996 Nov–Dec;41(3):229–44 (70 ref.)

Snowboarding injuries, a four-year study with comparison with alpine ski injuries [see comments] Davidson TM, et al. **West J Med** 1996 Mar;164(3):231–7. Comment in: West J Med 1996 Oct;165(4):252.

Medical coverage analysis for Wisconsin's Olympics: the Badger State Games. Greene JJ, et al. **Wis Med J** 1997 Jun;96(6):41–4

Football injuries in a rural area. Zoch TW, et al. **Wis Med J** 1996 Aug;95(8):570–3

[Severe injuries in winter sports are on the increase (interview by Dr. rer. nat. Anita Schweiger)] Neugebauer R. **Fortschr Med** 1997 Feb 20;115(5):36 **(Ger)**

[Scene and extreme sports varieties: the injury spectrum is changing (interview)] Jerosch J. **Sportverletz Sportschaden** 1996 Sep;10(3):VII–VIII **(Ger)**

[Sports medicine aspects of gymnastics] Konrad G, et al. **Sportverletz Sportschaden** 1997 Mar;11(1):35–7 (Eng. Abstr.) **(Ger)**

[Emergency service utilization and athletic injuries--data collection from the Fulda district] Raschka C, et al. **Sportverletz Sportschaden** 1996 Jun;10(2):43–4 (Eng. Abstr.) **(Ger)**

[Typical sports injuries, sports specific risks and comparison with other sources of accidents] Menke W, et al. **Versicherungsmedizin** 1997 Apr 1;49(2):41–4 (Eng. Abstr.) **(Ger)**

[Injuries of the spine and the spinal cord in sports] Shingu H, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jul; 70(7):353–65 **(Jpn)**

ETIOLOGY

Risk for exercise-induced myocardial injury for athletes performing prolonged strenuous endurance exercise [letter; comment] Mair J, et al. **Am J Cardiol** 1997 Aug 15; 80(4):543–4. Comment on: Am J Cardiol 1996 Aug 15;78(4):488–90.

Obturator nerve entrapment. A cause of groin pain in athletes. Bradshaw C, et al. **Am J Sports Med** 1997 May–Jun;25(3):402–8

Ulnar diaphyseal stress fracture in a bowler. Escher SA. **Am J Sports Med** 1997 May–Jun;25(3):412–3

I have often wondered... [editorial] Leach RE. **Am J Sports Med** 1997 May–Jun;25(3):281

Knee joint dynamics predict patellar tendinitis in elite volleyball players. Richards DP, et al. **Am J Sports Med** 1996 Sep–Oct;24(5):676–83

At work and play in a hazardous environment: injuries aboard a deployed U.S. Navy aircraft carrier. Krentz MJ, et al. **Aviat Space Environ Med** 1997 Jan;68(1):51–5

Sports injuries of the hand and wrist. Barton N. **Br J Sports Med** 1997 Sep;31(3):191–6 (50 ref.)

Models for the pathogenesis of stress fractures in athletes. Bennell KL, et al. **Br J Sports Med** 1996 Sep;30(3):200–4 (76 ref.)

Advances in the understanding of throwing injuries of the shoulder. Hackney RG. **Br J Sports Med** 1996 Dec; 30(4):282–8 (28 ref.)

Muscular imbalance and shoulder pain in volleyball attackers. Kugler A, et al. **Br J Sports Med** 1996 Sep;30(3):256–9

Repetitive strain injury to the foot in elite women kendoka. Nunn NR, et al. **Br J Sports Med** 1997 Mar;31(1):68–9

Major pelvic injuries in equestrian sports. O'Farrell DA, et al. **Br J Sports Med** 1997 Sep;31(3):249–51

Myocardial contusion caused by a baseball [see comments] Morikawa M, et al. **Clin Cardiol** 1996 Oct;19(10):831–3 (19 ref.). Comment in: Clin Cardiol 1996 Dec;19(12):921.

Safety in Canadian junior ice hockey: the association between ice surface size and injuries and aggressive penalties in the Ontario Hockey League. Watson RC, et al. **Clin J Sport Med** 1997 Jul;7(3):192–5

Leg injuries. Blue JM, et al. **Clin Sports Med** 1997 Jul; 16(3):467–78 (37 ref.)

Stress fractures in the pediatric athlete. Coady CM, et al. **Clin Sports Med** 1997 Apr;16(2):225–38 (43 ref.)

Plantarflexion injury to the metatarsophalangeal joint ("sand toe"). Frey C, et al. **Foot Ankle Int** 1996 Sep;17(9):576–81

Factors predisposing to skiing injuries in Britons. Harlow T. **Injury** 1996 Dec;27(10):691–3

Closed rupture of the common peroneal nerve: an unusual sporting injury. Holt MD, et al. **Injury** 1996 Nov; 27(9):668–9

Knee flexion to extension peak torque ratios and low-back injuries in highly active individuals. Koutedakis Y, et al. **Int J Sports Med** 1997 May;18(4):290–5

Physical characteristics as risk factors for sports injuries: a

four year prospective study. Twellaar M, et al. **Int J Sports Med** 1997 Jan;18(1):66–71

Thrower's fractures of the humerus [letter; comment] Callanan I, et al. **J Accid Emerg Med** 1996 Jul;13(4):303–4 . Comment on: J Accid Emerg Med 1995 Sep;12(3):222–4.

A survey of croquet injuries. Appleton DR. **J R Soc Med** 1997 Apr;90(4):218–20

Isolated triceps weakness in exercise-induced radial neuropathy. Nukada H, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):287–90

Compression or distraction of the anterior cruciate injured knee. Variations in injury pattern in contact sports and downhill skiing. Fridén T, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):144–7

Does running exercise cause osteoarthritis? Lahr DD. **Md Med J** 1996 Aug;45(8):641–4 (18 ref.)

Spine problems in the athlete. Stinson JT. **Md Med J** 1996 Aug;45(8):655–8 (25 ref.)

Orbital emphysema as a complication of bungee jumping. Krott R, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):850–2

Jump distance of dance landings influencing internal joint forces: II. Shear forces. Simpson KJ, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):928–36

Sports-related ocular injuries [letter] Burillon C, et al. **Ophthalmology** 1997 Oct;104(10):1528

Sports-related ocular injuries. A three-year follow-up study. Filipe JA, et al. **Ophthalmology** 1997 Feb;104(2):313–8

ACL injury patterns in women. Traina SM, et al. **Orthopedics** 1997 Jun;20(6):545–9; quiz 550–1 (28 ref.)

Intracranial hematoma in experienced teenage equestrians. McAbee GN, et al. **Pediatr Neurol** 1996 Oct;15(3):235–6

Etiology and pathophysiology of chronic tendon disorders in sports. Kannus P. **Scand J Med Sci Sports** 1997 Apr; 7(2):78–85

Etiology and pathophysiology of tendon ruptures in sports. Kannus P, et al. **Scand J Med Sci Sports** 1997 Apr; 7(2):107–12

High prevalence of elbow problems among goalkeepers in European team handball -- 'handball goalie's elbow'. Tyrdal S, et al. **Scand J Med Sci Sports** 1996 Oct; 6(5):297–302

A prospective study of injuries in licensed floorball players. Wikström J, et al. **Scand J Med Sci Sports** 1997 Feb; 7(1):38–42

Traumatic spinal cord injuries in Istanbul [letter; comment] Acikgoz B. **Spinal Cord** 1997 Mar;35(3):189. Comment on: Paraplegia 1995 Aug;33(8):469–71. Comment on: Spinal Cord 1996 Aug;34(8):498.

Muscle damage occurring in wheelchair sports people. Ide M, et al. **Spinal Cord** 1997 Apr;35(4):234–7

Ankle injury risk factors in sports. Barker HB, et al. **Sports Med** 1997 Feb;23(2):69–74 (33 ref.)

[Gunshot fatalities in connection with hunting and hunting rifles—causes, prevention and expert evaluation] Janssen W, et al. **Arch Kriminol** 1996 Jan–Feb;197(1–2):1–15 (Eng. Abstr.) **(Ger)**

[Snowboard sports technique, injury pattern, prevention] Dingerkus ML, et al. **Fortschr Med** 1997 Feb 20; 115(5):26–8, 30–1 (16 ref.) (Eng. Abstr.) **(Ger)**

[Case report: a traumatic facial paralysis caused by a fish] Zwisler H, et al. **Laryngorhinootologie** 1997 Jan;76(1):53–4 (Eng. Abstr.) **(Ger)**

[Golf: a safe sport?] **Sportverletz Sportschaden** 1996 Sep; 10(3):X–XI **(Ger)**

[Injuries due to inline skating] Eingartner C, et al. **Sportverletz Sportschaden** 1997 Jun;11(2):48–51 (Eng. Abstr.) **(Ger)**

[Inline skating—typical injuries and prevention] Jerosch J, et al. **Sportverletz Sportschaden** 1997 Jun;11(2):43–7 (Eng. Abstr.) **(Ger)**

[Injuries during handball. A comparative, retrospective study between regional and upper league teams] Seil R, et al. **Sportverletz Sportschaden** 1997 Jun;11(2):58–62 (Eng. Abstr.) **(Ger)**

[Minor head injuries in sport. Occurrence, management, sequelae and prevention] Ingebrigtsen T, et al. **Tidsskr Nor Laegeforen** 1996 Dec 10;116(30):3594–7 (39 ref.) (Eng. Abstr.) **(Nor)**

HISTORY

The philosophy of sports medicine care: an historical review. Leadbetter JD, et al. **Md Med J** 1996 Aug;45(8):618–31

MORTALITY

[Bicycle accidents. A retrospective study 1986–1991] Reinhardt G, et al. **Versicherungsmedizin** 1996 Feb 1; 48(1):15–7 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Pattern of burn injury in hang-glider pilots. Campbell DC, et al. **Burns** 1996 Jun;22(4):328–30

Isolated infraspinatus atrophy in a collegiate volleyball player. Wang DH, et al. **Clin J Sport Med** 1996 Oct; 6(4):255–8

Neuropathology of human spinal cord injury sustained in sports-related activities. Hayes KC, et al. **J Neurotrauma** 1997 Apr;14(4):235–48

Isolated popliteus muscle rupture in polo players. Winge S, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(2):89–91

Anatomical factors associated with overuse sports injuries. Krivickas LS. **Sports Med** 1997 Aug;24(2):132–46

[Differentiation of hunting accident and suicide with rifles] Karger B. **Versicherungsmedizin** 1996 Feb 1;48(1):11–5 (24 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Impotence and nerve entrapment in long distance amateur cyclists. Andersen KV, et al. **Acta Neurol Scand** 1997 Apr; 95(4):233–40

The effects of joint position and direction of joint motion on proprioceptive sensibility in anterior cruciate ligament-deficient athletes. Borsa PA, et al. **Am J Sports Med** 1997 May–Jun;25(3):336–40

Neuromuscular performance characteristics in elite female athletes. Huston LJ, et al. **Am J Sports Med** 1996 Jul–Aug; 24(4):427–36

The role of proprioception in the management and rehabilitation of athletic injuries. Lephart SM, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):130–7

Anterior cruciate ligament functional brace use in sports. Wojtys EM, et al. **Am J Sports Med** 1996 Jul–Aug; 24(4):539–46

Lower extremity injuries in college athletes: relation between ligamentous laxity and lower extremity muscle tightness. Krivickas LS, et al. **Arch Phys Med Rehabil** 1996 Nov; 77(11):1139–43

Precompetition injury and subsequent tournament performance in full-contact taekwondo. Feehan M, et al. **Br J Sports Med** 1995 Dec;29(4):258–62

Isokinetic strength of the quadriceps and hamstrings and functional ability of anterior cruciate deficient knees in recreational athletes. Li RC, et al. **Br J Sports Med** 1996 Jun;30(2):161–4

Stabilometric assessment in the anterior cruciate ligament-reconstructed knee. Shiraishi M, et al. **Clin J Sport Med** 1996 Jan;6(1):32–9

Injury rates and physiological changes associated with lateral motion training in females. Williford HN, et al. **Int J Sports Med** 1996 Aug;17(6):452–7

The relationship between static posture and ACL injury in female athletes. Loudon JK, et al. **J Orthop Sports Phys Ther** 1996 Aug;24(2):91–7

The biomechanics of cervical spine injury and implications for injury prevention. Winkelstein BA, et al. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S246–55

Etiology and pathophysiology of tendon ruptures in sports. Kannus P, et al. **Scand J Med Sci Sports** 1997 Apr; 7(2):107–12

Etiology and pathophysiology of chronic tendon disorders in sports. Kannus P. **Scand J Med Sci Sports** 1997 Apr; 7(2):78–85

Biomechanics of overhand throwing with implications for injuries. Fleisig GS, et al. **Sports Med** 1996 Jun;21(6):421–37 (68 ref.)

[Pronation angle of the rear foot during running in relation to load] Fromme A, et al. **Sportverletz Sportschaden** 1997 Jun;11(2):52–7 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Injuries and use of protective equipment among college in-line skaters. Williams-Avery RM, et al. **Accid Anal Prev** 1996 Nov;28(6):779–84

AAP and AAO release statement on protective eyewear for young athletes. American Academy of Pediatrics. American Academy of Ophthalmology. **Am Fam Physician** 1997 Feb 1;55(2):705

The making of a winner. Orthopedic research keeps professional athletes on the playing field [editorial] Szabo RM, et al. **Am J Orthop** 1996 Nov;25(11):742, 747

Developing a health surveillance strategy for professional footballers in compliance with UK health and safety legislation. Fuller CW, et al. **Br J Sports Med** 1997 Jun; 31(2):148–9; discussion 150

Rugby, injury, and the lions. Williams JP. **Br J Sports Med** 1997 Jun;31(2):95

Correlates of facial protection use by adult recreational ice hockey players. Voaklander DC, et al. **Can J Public Health** 1996 Nov–Dec;87(6):381–2

Screening echocardiography [letter; comment] Kiningham R. **Clin J Sport Med** 1996 Jan;6(1):70–1. Comment on: Clin J Sport Med 1995;5(2):86–9.

The athletic trainer's perspective. George FJ. **Clin Sports Med** 1997 Jul;16(3):361–74 (33 ref.)

Sports-related oral injury and mouthguard use among Sheffield school children. Rodd HD, et al. **Community Dent Health** 1997 Mar;14(1):25–30

Ankle bracing in running: the effect of a Push type medium ankle brace upon movements of the foot and ankle during the stance phase. De Clercq DL. **Int J Sports Med** 1997 Apr;18(3):222–8

Athletic mouth guards prevent orofacial injuries. Woodmansey KF. **J Am Coll Health** 1997 Jan;45(4):179–82 (26 ref.)

Sports related ocular trauma: a preventable epidemic [editorial] Classe JG. **J Am Optom Assoc** 1996 Feb; 67(2):66–7

Dynamics of human flight on skis: improvements in safety and fairness in ski jumping. Müller W, et al. **J Biomech** 1996 Aug;29(8):1061–8

Diseases and injuries in athletes. A review. Ficarra BJ. **J Med** 1996;27(5–6):241–75 (72 ref.)

Giving your patients a sporting chance [editorial] Laskin DM. **J Oral Maxillofac Surg** 1997 Feb;55(2):113

Combating abuses in high-level adolescent sport [letter] Kovachev LS. **Lancet** 1996 Oct 12;348(9033):1034–5

Care of collegiate athletes. Brandon TA, et al. **Md Med J** 1996 Aug;45(8):669–75 (31 ref.)

The relationship of the certified athletic trainer and the team physician in sports medicine. Gertsen KC, et al. **Md Med J** 1996 Aug;45(8):675–7

Risk factors for injuries from in-line skating and the effectiveness of safety gear [see comments] Schieber RA, et al. **N Engl J Med** 1996 Nov 28;335(22):1630–5. Comment in: N Engl J Med 1996 Nov 28;335(22):1680–5.

Protective equipment for in-line skaters [editorial; comment] Thompson RS, et al. **N Engl J Med** 1996 Nov 28; 335(22):1680–2. Comment on: N Engl J Med 1996 Nov 28;335(22):1630–5.

The preparticipation athletic examination: a closer look. Krowchuk DP. **Pediatr Ann** 1997 Jan;26(1):37–49 (34 ref.)

Lateral cervical spine films in Down syndrome [editorial] Berdon WE. **Pediatr Radiol** 1996 Oct;26(10):748

Commentary: atlantoaxial instability in Down syndrome: reassessment by the Committee on Sports Medicine and Fitness of the American Academy of Pediatrics. O'Connor JF, et al. **Pediatr Radiol** 1996 Oct;26(10):748–9

Bungi jumping 'unphysiological' [letter] Robertson S. **S Afr Med J** 1997 Jan;87(1):82

A twofold reduction in the incidence of acute ankle sprains in volleyball after the introduction of an injury prevention program: a prospective cohort study. Bahr R, et al. **Scand J Med Sci Sports** 1997 Jun;7(3):172–7

Injuries during leisure physical activity in a Swedish municipality. Lindqvist KS, et al. **Scand J Soc Med** 1996 Dec;24(4):282–92

Preventing equestrian injuries. Locking the stable door. Watt GM, et al. **Sports Med** 1996 Sep;22(3):187–97 (56 ref.)

Catastrophic injury of the brain and spinal cord. Cantu RC. **Va Med Q** 1996 Spring;123(2):98–102

Sports participation in children and adolescents with neurological impairments. Rothner AD. **Va Med Q** 1996 Spring;123(2):94–7, 114 (30 ref.)

[Hockey injuries: consultations in a hospital center in Quebec] Laflamme P, et al. **Can J Public Health** 1996 Jul–Aug; 87(4):240–3 (Eng. Abstr.) **(Fre)**

[Report of experiences: personal experience in sports participation. Dominance of the over-performance principle in sports] Artus HG. **Sportverletz Sportschaden** 1996 Sep;10(3):XII–XIII **(Ger)**

PSYCHOLOGY

Perspectives of sport physiotherapists on the frequency and significance of psychological factors in professional practice: implications for curriculum design in professional training. Ford IW, et al. **Aust J Sci Med Sport** 1997 Jun; 29(2):34–40

Mild head injury and speed of information processing: a prospective study of professional rugby league players. Hinton-Bayre AD, et al. **J Clin Exp Neuropsychol** 1997 Apr;19(2):275–89

Psychological sequelae of mountain accidents: a preliminary study. Peck DF, et al. **J Psychosom Res** 1996 Jul; 41(1):55–63

Threat and coping appraisal as determinants of compliance with sports injury rehabilitation: an application of Protection Motivation Theory. Taylor AH, et al. **J Sports Sci** 1996 Dec;14(6):471–82

Diving the wreck: risk and injury in sport scuba diving. Hunt JC. **Psychoanal Q** 1996 Jul;65(3):591–622

Psychological rehabilitation from sports injuries. Crossman J. **Sports Med** 1997 May;23(5):333–9 (52 ref.)

Psychological impact of injuries in athletes. Smith AM. **Sports Med** 1996 Dec;22(6):391–405 (78 ref.)

Psychological effects of chronic injury in elite athletes. Correction [letter] **West J Med** 1997 Apr;166(4):291

Psychological effects of chronic injury in elite athletes [published erratum appears in West J Med 1997 Apr;166(4):291] Shuer ML, et al. **West J Med** 1997 Feb; 166(2):104–9

RADIOGRAPHY

Stress fracture of the body of the talus in athletes demonstrated with computer tomography [see comments] Bradshaw C, et al. **Clin J Sport Med** 1996 Jan;6(1):48–51 . Comment in: Clin J Sport Med 1996 Oct;6(4):278–9.

Split fracture of the proximal phalanx of thumb—an unusual cricket injury. Constantinides H, et al. **Injury** 1996 Oct; 27(8):591–2

Craniocervical bone pneumatisation. Sadler DJ, et al. **Neuroradiology** 1996 May;38(4):330–2

[Diving-associated pulmonary barotrauma as a rare differential diagnosis in internal medicine-pneumologic ambulatory care] Tetzlaff K, et al. **Pneumologie** 1996 Dec; 50(12):902–5 (Eng. Abstr.) **(Ger)**

[Apophyseolysis and avulsion fractures of the anterior inferior iliac spine. A case report] Bartl R, et al. **Unfallchirurgie** 1997 Apr;23(2):74–7 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Sports nuclear medicine: an emerging field [news] Kotz D. **J Nucl Med** 1996 Dec;37(12):17N–18N, 23N

ATHLETIC INJURIES

REHABILITATION

Rehabilitation of the shoulder. Hawkins R, et al. **Ann Chir Gynaecol** 1996;85(2):173–84 (22 ref.)

Sports medicine. Pain in the Achilles region. Brukner P. **Aust Fam Physician** 1997 Apr;26(4):463–5

Rehabilitation of foot and ankle injuries. Losito JM, et al. **Clin Podiatr Med Surg** 1997 Jul;14(3):533–57 (39 ref.)

Rehabilitation of the athlete after shoulder arthroscopy. Buuck DA, et al. **Clin Sports Med** 1996 Oct;15(4):655–72 (29 ref.)

Shoulder rehabilitation: clinical application, evaluation, and rehabilitation protocols. Kibler WB, et al. **Instr Course Lect** 1997;46:43–51 (11 ref.)

Threat and coping appraisal as determinants of compliance with sports injury rehabilitation: an application of Protection Motivation Theory. Taylor AH, et al. **J Sports Sci** 1996 Dec;14(6):471–82

Medical coverage of high school sports. Harries TJ. **Md Med J** 1996 Aug;45(8):686–9

Caring for athletes in youth sports. Steele MK 3rd. **Md Med J** 1996 Aug;45(8):689–91

Being a team physician. Patterson PH, et al. **Pediatr Ann** 1997 Jan;26(1):13–6, 18

Diagnosis, treatment and rehabilitation principles in complete tendon ruptures in sports. Kibler WB. **Scand J Med Sci Sports** 1997 Apr;7(2):119–29

Psychological rehabilitation from sports injuries. Crossman J. **Sports Med** 1997 May;23(5):333–9 (52 ref.)

Rehabilitation of injuries in competitive swimmers. Kenal KA, et al. **Sports Med** 1996 Nov;22(5):337–47 (28 ref.)

Psychological impact of injuries in athletes. Smith AM. **Sports Med** 1996 Dec;22(6):391–405 (78 ref.)

Rehabilitation programmes following arthroscopic meniscectomy in athletes. Wheatley WB, et al. **Sports Med** 1996 Jun;21(6):447–56 (22 ref.)

[Objectivity in physical therapy evaluation] **Sportverletz Sportschaden** 1996 Sep;10(3):XII **(Ger)**

[Muscle strains: recommendations for the athlete (news)] **Sportverletz Sportschaden** 1997 Jun;11(2):XII **(Ger)**

[A new dimension—proprioceptive training of the upper extremities and trunk. Case report of a 13-year-old tennis player after shoulder dislocation] Stommel A. **Sportverletz Sportschaden** 1997 Mar;11(1):XV–XVII **(Ger)**

[Mobilizing joint drainage. A new therapeutic concept in treatment of pathologic edema in the postoperative and post-traumatic field] Winter J. **Sportverletz Sportschaden** 1997 Jun;11(2):XVIII–XIX **(Ger)**

[Conservative functional therapy of closed rupture of the Achilles tendon. Treatment approach and analysis of results] Reilmann H, et al. **Unfallchirurg** 1996 Aug; 99(8):576–80 (Eng. Abstr.) **(Ger)**

SURGERY

Clinical and functional outcome of anterior cruciate ligament reconstruction in the recreational athlete over the age of 35. Novak PJ, et al. **Am J Knee Surg** 1996 Summer; 9(3):111–6

Arthroscopically assisted semitendinosus and gracilis tendon graft in reconstruction for acute anterior cruciate ligament injuries in athletes. Aglietti P, et al. **Am J Sports Med** 1996 Nov–Dec;24(6):726–31

Functional treatment of patellar dislocation in an athletic population. Garth WP Jr, et al. **Am J Sports Med** 1996 Nov–Dec;24(6):785–91

Simultaneous rupture of the anterior cruciate ligament and the patellar tendon. Six case reports. Levakos Y, et al. **Am J Sports Med** 1996 Jul–Aug;24(4):498–503

Arthroscopic treatment of partial rotator cuff tears in young athletes. A preliminary report. Payne LZ, et al. **Am J Sports Med** 1997 May–Jun;25(3):299–305

Internal fixation of acute stable scaphoid fractures in the athlete. Rettig AC, et al. **Am J Sports Med** 1996 Mar–Apr; 24(2):182–6

Hamstring muscle injuries among water skiers. Functional outcome and prevention. Sallay PI, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):130–6

Rodeo thumb: an unusual etiology of avulsion amputation of the thumb. Isenberg JS. **Ann Plast Surg** 1996 Aug; 37(2):187–90

Single versus two-incision arthroscopic anterior cruciate ligament reconstruction. Arciero RA, et al. **Arthroscopy** 1996 Aug;12(4):462–9

Arthroscopic Bankart repair in a high demand patient population. Bacilla P, et al. **Arthroscopy** 1997 Feb; 13(1):51–60

Arthroscopic treatment of soft-tissue impingement of the ankle in athletes. DeBerardino TM, et al. **Arthroscopy** 1997 Aug;13(4):492–8

Autograft versus allograft anterior cruciate ligament reconstruction. Shelton WR, et al. **Arthroscopy** 1997 Aug; 13(4):446–9

Laparoscopic and conventional repair of groin disruption in sportsmen [letter] Foster ME, et al. **Br J Surg** 1997 Aug; 84(8):1171–2

Laparoscopic and conventional repair of groin disruption in sportsmen. Ingoldby CJ. **Br J Surg** 1997 Feb;84(2):213–5

Laparoscopic and conventional repair of groin disruption in sportsmen [letter] Nagy J, et al. **Br J Surg** 1997 Aug; 84(8):1172

Percutaneous longitudinal tenotomy in chronic Achilles tendonitis. Testa V, et al. **Bull Hosp Jt Dis** 1996;54(4):241–4

Stabilometric assessment in the anterior cruciate ligament-reconstructed knee. Shiraishi M, et al. **Clin J Sport Med** 1996 Jan;6(1):32–9

Arthroscopy of the foot and ankle in the athlete. Cooper PS, et al. **Clin Sports Med** 1996 Oct;15(4):805–24 (68 ref.)

Arthroscopic medial meniscal repair in the athlete. DeHaven KE, et al. **Clin Sports Med** 1997 Jan;16(1):69–86 (49 ref.)

Arthroscopy of the wrist in athletes. Ekman EF, et al. **Clin Sports Med** 1996 Oct;15(4):753–68 (40 ref.)

Arthroscopic decompression of the shoulder in athletes. Kolowich PA. **Clin Sports Med** 1996 Oct;15(4):701–13 (44 ref.)

Primary repair without augmentation for early neglected Achilles tendon ruptures in the recreational athlete. Porter DA, et al. **Foot Ankle Int** 1997 Sep;18(9):557–64

Acute exertional compartment syndrome of the medial foot. Blacklidge DK, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):19–22

Grand rounds: sports medicine. Saxena A, et al. **J Foot Ankle Surg** 1996 Nov–Dec;35(6):595–9

Combined extensor pollicis brevis and radial collateral ligament injury: three case reports. Failla JM. **J Hand Surg [Am]** 1996 May;21(3):434–7

Delayed onset of posterior interosseous nerve palsy after distal biceps tendon repair. Katzman BM, et al. **J Shoulder Elbow Surg** 1997 Jul–Aug;6(4):393–5

Equine-related neurosurgical trauma: a prospective series of 30 patients. Kriss TC, et al. **J Trauma** 1997 Jul;43(1):97–9

Treatment of acute combined knee instabilities and subsequent sport performance. Ekeland A, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):180–3

Arthroscopic reconstruction of the anterior cruciate ligament with Leeds-Keio ligament in non-professional athletes. Results after a minimum 5 years' follow-up. Marcacci M, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(1):9–13

Diagnosis and treatment of stress fracture of the patella in athletes. Orava S, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(4):206–11

Sports ability after Bankart procedure in professional athletes. Pavlik A, et al. **Knee Surg Sports Traumatol Arthrosc** 1996; 4(2):116–20

Avulsion of the anterior inferior iliac spine. Saluan PM, et al. **Orthopedics** 1997 Jun;20(6):558–9

[Anterior instability of the shoulder in athletes: apropos of 51 cases of stabilization using the Latarjet-Patte intervention] Huguet D, et al. **Acta Orthop Belg** 1996 Dec; 62(4):200–6 (Eng. Abstr.) **(Fre)**

[Traumatic thrombosis of the distal ulnar artery (hypothenar hammer syndrome) in a golf player with an accessory muscle loop around Guyon's canal. Case report] Müller LP, et al. **Handchir Mikrochir Plast Chir** 1997 Jul; 29(4):183–6 (Eng. Abstr.) **(Ger)**

[Functional disorders of the foot after tenodeses: is the method still currently acceptable?] Becker HP, et al. **Sportverletz Sportschaden** 1996 Dec;10(4):94–9 (47 ref.) (Eng. Abstr.) **(Ger)**

[Dwyer osteotomy with or without lateral stabilization in calcaneus varus with lateral ligament insufficiency of the upper ankle joint] Csizy M, et al. **Sportverletz Sportschaden** 1996 Dec;10(4):100–2 (Eng. Abstr.) **(Ger)**

[Surgical treatment of chronic ankle joint instability—many variations in German clinics. Analysis of a 1994 German survey] Schmidt R, et al. **Sportverletz Sportschaden** 1997 Mar;11(1):21–6 (Eng. Abstr.) **(Ger)**

[Weber fibular ligament-plasty with plantar tendon with Segesser modification] Segesser B, et al. **Sportverletz Sportschaden** 1996 Dec;10(4):88–93 (Eng. Abstr.) **(Ger)**

[Results of reconstruction of acromioclavicular joint rupture with PDS implants] Hessmann M, et al. **Unfallchirurg** 1997 Mar;100(3):193–7 (Eng. Abstr.) **(Ger)**

THERAPY

The role of proprioception in the management and rehabilitation of athletic injuries. Lephart SM, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):130–7

The effect of a pneumatic leg brace on return to play in athletes with tibial stress fractures. Swenson EJ Jr, et al. **Am J Sports Med** 1997 May–Jun;25(3):322–8

Role of ankle taping and bracing in the athlete. Callaghan MJ. **Br J Sports Med** 1997 Jun;31(2):102–8 (64 ref.)

Management of groin pain in athletes. Fricker PA. **Br J Sports Med** 1997 Jun;31(2):97–101 (22 ref.)

Sports injury clinics. Knill-Jones R. **Br J Sports Med** 1997 Jun;31(2):95–6

Family doctors: players or spectators in the future? [editorial] MacAuley D. **Br J Sports Med** 1997 Jun;31(2):91

An alternative method of treatment for metacarpal fractures in athletes. Toronto R, et al. **Clin J Sport Med** 1996 Jan; 6(1):4–8

Management guidelines for participation in collision activities with congenital, developmental, or post-injury lesions involving the cervical spine. Torg JS, et al. **Clin Sports Med** 1997 Jul;16(3):501–30 (18 ref.)

Office treatment of elbow injuries in the athlete. Curl WW. **Instr Course Lect** 1994;43:55–61 (7 ref.)

Sports injuries of the hand. Palmer RE. **Instr Course Lect** 1994;43:25–30 (1 ref.)

Medical team coverage of motor sports events. Hunter HC. **J Am Osteopath Assoc** 1996 Mar;96(3):179–80

Team physician preferences at National Collegiate Athletic Association Division I universities. Stockard AR. **J Am Osteopath Assoc** 1997 Feb;97(2):89–95

Prospects for gene therapy in sports medicine. Gerich TG, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(3):180–7 (86 ref.)

Management of anterior cruciate ligament injuries in skeletally immature adolescents. Shelbourne KD, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(2):68–74

Were you knocked out? A team physician's approach to initial concussion management. McCrory PR. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S207–12 (55 ref.)

The diagnosis and treatment of cervical radiculopathy. Malanga GA. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S236–45 (88 ref.)

The disc at risk in athletes: perspectives on operative and nonoperative care. Young JL, et al. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S222–32 (74 ref.)

Practice parameter: the management of concussion in sports (summary statement). Report of the Quality Standards Subcommittee. **Neurology** 1997 Mar;48(3):581–5

Pediatric and adolescent sports medicine. Saperstein AL, et al. **Pediatr Clin North Am** 1996 Oct;43(5):1013–33 (59 ref.)

Acute injuries and specific problems in adult athletes. Barry NN, et al. **Rheum Dis Clin North Am** 1996 Aug; 22(3):531–49 (51 ref.)

Cryotherapy in sports medicine. Swenson C, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):193–200 (75 ref.)

Immediate external compression in the management of an acute muscle injury. Thorsson O, et al. **Scand J Med Sci Sports** 1997 Jun;7(3):182–90

Athletes with cervical spine injury. Maroon JC, et al. **Spine** 1996 Oct 1;21(19):2294–9 (21 ref.)

Stress fractures. Current concepts of diagnosis and treatment. Reeder MT, et al. **Sports Med** 1996 Sep;22(3):198–212 (109 ref.)

Hyperbaric oxygen chambers and the treatment of sports injuries. Staples J, et al. **Sports Med** 1996 Oct;22(4):219–27 (78 ref.)

Medical coverage analysis for Wisconsin's Olympics: the Badger State Games. Greene JJ, et al. **Wis Med J** 1997 Jun;96(6):41–4

[Sports medicine service in Denmark (editorial)] Nielsen AB. **Ugeskr Laeger** 1997 May 19;159(21):3123 **(Dan)**

[Hyperbaric oxygen therapy in sports injuries (editorial)] Sipinen SA. **Duodecim** 1995;111(13):1187–8 (12 ref.) **(Fin)**

[Conservative treatment of stress fractures of the tarsal navicular in athletes] Bojanic I, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(2):133–8 (Eng. Abstr.) **(Fre)**

[Rupture of the anterior cruciate ligament] Romero J. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1136–45 (76 ref.) (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Relationship between symptoms of jumper's knee and the ultrasound characteristics of the patellar tendon among high level male volleyball players. Lian O, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):291–6

[Blunt testicular trauma] Wymenga LF, et al. **Ned Tijdschr Geneeskd** 1996 Nov 23;140(47):2317–9 **(Dut)**

ATHLETICS see **SPORTS**

ATHYMIC MICE see **MICE, NUDE**

ATHYMIC RATS see **RATS, NUDE**

ATLANTO-AXIAL JOINT

Subaxial cervical spine subluxation in rheumatoid arthritis. A retrospective analysis of 16 operated patients after 1–5 years. Olerud C, et al. **Acta Orthop Scand** 1997 Apr; 68(2):109–15

Pathogenesis of non-traumatic atlanto-axial subluxation (Grisel's syndrome). Welinder NR, et al. **Eur Arch Otorhinolaryngol** 1997;254(5):251–4

Synovial cyst and degeneration of the transverse ligament: an unusual cause of high cervical myelopathy. Case report. Fransen P, et al. **J Neurosurg** 1997 Jun;86(6):1027–30 (17 ref.)

Cervical cord compression complicating atlantoaxial subluxation in ankylosing spondylitis [letter; comment] Dellestable F, et al. **J Rheumatol** 1996 Sep;23(9):1668–70 . Comment on: J Rheumatol 1995 Nov;22(11):2120–5.

Anterior atlantoaxial subluxation in a patient with diffuse idiopathic skeletal hyperostosis. Oostveen JC, et al. **J Rheumatol** 1996 Aug;23(8):1441–4

Screening of children with Down syndrome for atlantoaxial (C1–2) instability: another contentious health question. Taylor TK, et al. **Med J Aust** 1996 Oct 21;165(8):448–50 (20 ref.)

Injuries involving the transverse atlantal ligament: classification and treatment guidelines based upon experience with 39 injuries [letter; comment] Dickman CA, et al. **Neurosurgery** 1997 Apr;40(4):886–7. Comment on: Neurosurgery 1996 Jul;39(1):210.

Are somatosensory evoked potential recording and magnetic

resonance imaging useful for evaluating the risk of neurologic compromise in rheumatoid arthritis patients with atlantoaxial subluxation? Cartry O, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):584–92

Atlanto–axial rotatory fixation. Lukhele M. S **Afr Med J** 1996 Dec;86(12):1549–52

Tophaceous pseudogout. Rivera–Sanfeliz G, et al. **Skeletal Radiol** 1996 Oct;25(7):699–701

Conservative therapy of atlantoaxial osteomyelitis. A case report. Lam CH, et al. **Spine** 1996 Aug 1;21(15):1820–3

Myelopathy resulting from the atlantodental hypertrophic osteoarthritis accompanying the dens hypertrophy. Two case reports. Sato K, et al. **Spine** 1996 Jun 15;21(12):1467–71

Atlantoaxial instability in Lesch–Nyhan syndrome. Shewell PC, et al. **Spine** 1996 Mar 15;21(6):757–62

Application of ventral pins and polymethylmethacrylate for the management of atlantoaxial instability: results in nine dogs. Schulz KS, et al. **Vet Surg** 1997 Jul–Aug;26(4):317–25

[Atlanto–axial dislocation in os odontoideum] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):588–90 **(Ger)**

[Pathology and management of spinal lesions in rheumatoid arthritis] Yonenobu K, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 Sep;70(9):573–82 (30 ref.) **(Jpn)**

ABNORMALITIES

Hydrocephalus and secondary syndrome of inappropriate antidiuretic hormone due to rheumatoid vertical atlantoaxial subluxation. Naredo Sánchez E, et al. **J Rheumatol** 1996 Jun;23(6):1098–102

INJURIES

Atlantoaxial rotatory fixation. A case report and proposal of a new classification system. Waegeneers S, et al. **Acta Orthop Belg** 1997 Mar;63(1):35–9

Atlantoaxial dislocation related to instilling eyedrops in a patient with Down's syndrome. Nucci P, et al. **Am J Ophthalmol** 1996 Dec;122(6):908–10

Reactive arthritis with a severe lesion of the cervical spine. Fox B, et al. **Br J Rheumatol** 1997 Jan;36(1):126–9

Atlantoaxial subluxation in an ankylosing spondylitis patient with cervical spine ossification [letter] Toussirot E, et al. **Br J Rheumatol** 1997 Feb;36(2):293–5

Atlanto–axial dislocation without fracture: case report of an ejection injury. Boos N, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):204–5 (8 ref.)

Triple anterior screw fixation of an acute combination atlas–axis fracture. Case report. Apostolides PJ, et al. **J Neurosurg** 1997 Jul;87(1):96–9

Two year followup of anterior and vertical atlantoaxial subluxation in ankylosing spondylitis. Ramos–Remus C, et al. **J Rheumatol** 1997 Mar;24(3):507–10

Occipitocervical fusion with C1 laminectomy in children. Nakagawa T, et al. **Spine** 1997 Jun 1;22(11):1209–14

Traumatic vertical atlantoaxial instability in a case of atlanto–occipital coalition. Weiner BK, et al. **Spine** 1997 May 1;22(9):1033–5

[Os odontoideum. A neurologic syndrome after orthopedic reduction of a C1–C2 subluxation] Himmer O, et al. **Acta Orthop Belg** 1997 Jun;63(2):118–21 (Eng. Abstr.) **(Fre)**

[Post–traumatic atlanto–axial arthrosis] Ehrat C, et al. **Orthopade** 1996 Nov;25(6):542–5 (Eng. Abstr.) **(Ger)**

[A case of atlanto–axial rotatory fixation associated with Jefferson's fracture] Kurimoto M, et al. **No Shinkei Geka** 1996 Jul;24(7):671–4 (Eng. Abstr.) **(Jpn)**

[Atlantoaxial dislocation with ventilatory insufficiency—report of two cases] Nemoto M, et al. **No To Shinkei** 1996 Feb;48(2):155–60 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Atlantoaxial degenerative articular cysts. Birch BD, et al. **J Neurosurg** 1996 Nov;85(5):810–6

Comparison of neurologic deficits with atlanto–dens intervals in patients with Down syndrome. Ferguson RL, et al. **J Spinal Disord** 1997 Jun;10(3):246–52 (30 ref.)

MRI of atlanto–odontoid osteoarthritis. Zapletal J, et al. **Neuroradiology** 1997 May;39(5):354–6

Atlantoaxial dislocation. A follow–up study of surgical results. Sumi M, et al. **Spine** 1997 Apr 1;22(7):759–63; discussion 763–4

PHYSIOLOGY

Magnetic resonance angiographic analysis of atlanto–axial rotation: anatomic bases of compression of the vertebral arteries. Dumas JL, et al. **Surg Radiol Anat** 1996; 18(4):303–13

PHYSIOPATHOLOGY

Chiropractic correction of atlantoaxial rotatory fixation. Knutson GA. **J Manipulative Physiol Ther** 1996 May; 19(4):268–72

Atlantoaxial subluxation after tonsillectomy and adenoidectomy. Onerci M, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):271–3

Factors related to the severity of myelopathy in atlantoaxial instability. Nakajima K, et al. **Spine** 1996 Jun 15; 21(12):1440–5

Occipitoatlantal and occipitoaxial hypermobility in Down syndrome. Uno K, et al. **Spine** 1996 Jun 15;21(12):1430–4

Atlantoaxial instability in os odontoideum with myelopathy. Watanabe M, et al. **Spine** 1996 Jun 15;21(12):1435–9

RADIOGRAPHY

Radiological and anatomical evaluation of the atlantoaxial transarticular screw fixation technique. Madawi AA, et al. **J Neurosurg** 1997 Jun;86(6):961–8 (18 ref.)

Lateral cervical spine films in Down syndrome [editorial] Berdon WE. **Pediatr Radiol** 1996 Oct;26(10):748

Commentary: atlantoaxial instability in Down syndrome: reassessment by the Committee on Sports Medicine and Fitness of the American Academy of Pediatrics. O'Connor JF, et al. **Pediatr Radiol** 1996 Oct;26(10):748–9

Radiographic classification of Os odontoideum and its clinical significance. Matsui H, et al. **Spine** 1997 Aug 1; 22(15):1706–9

Os odontoideum. A case report of one identical twin. Verska JM, et al. **Spine** 1997 Mar 15;22(6):706–9

SURGERY

Dysphagia caused by a hard cervical collar. Houghton DJ, et al. **Br J Neurosurg** 1996 Oct;10(5):501–2

Compression of the spinal cord due to destructive spondyloarthropathy of the atlanto–axial joints. Mikawa Y, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1911–4

Radiological and anatomical evaluation of the atlantoaxial transarticular screw fixation technique. Madawi AA, et al. **J Neurosurg** 1997 Jun;86(6):961–8 (18 ref.)

Threaded steinmann pin fusion of the craniovertebral junction. Apostolides PJ, et al. **Spine** 1996 Jul 15; 21(14):1630–7

Atlantoaxial fusion and retrodental pannus in rheumatoid arthritis. Grob D, et al. **Spine** 1997 Jul 15;22(14):1580–3; discussion 1584

One piece cervical device for cervical spine surgery. Mitsui H. **Spine** 1996 Jan 1;21(1):39–44

ATLANTO–OCCIPITAL JOINT

ABNORMALITIES

Cervical pain due to atlanto–occipital fusion in a swimmer. Hill JM, et al. **Orthopedics** 1997 Mar;20(3):270–2

ANATOMY & HISTOLOGY

Anatomic relation between the rectus capitis posterior minor muscle and the dura mater [letter; comment] Rutten HP, et al. **Spine** 1997 Apr 15;22(8):924–6. Comment on: Spine 1995 Dec 1;20(23):2484–6.

INJURIES

Multiple noncontiguous injuries of the spine in a child: atlantooccipital dislocation and seat–belt injury of the lumbar spine. Vedantam R, et al. **Acta Orthop Belg** 1997 Mar;63(1):23–7

Case of the month: the lateral cervical spine in major trauma. Logan PM, et al. **Br J Radiol** 1996 Dec;69(828):1197–8

Reactive arthritis with a severe lesion of the cervical spine. Fox B, et al. **Br J Rheumatol** 1997 Jan;36(1):126–9

Retropharyngeal pseudomeningocele after atlanto–occipital dislocation: report of two cases. Naso WB, et al. **Neurosurgery** 1997 Jun;40(6):1288–90; discussion 1290–1

Craniocervical junction subarachnoid hemorrhage associated with atlanto–occipital dislocation. Przybylski GJ, et al. **Spine** 1996 Aug 1;21(15):1761–8

Atlanto–occipital fusion for dislocation in children with neurologic preservation. A case report. Sponseller PD, et al. **Spine** 1997 Feb 1;22(3):344–7

[Diagnostic problems in fractures of the occipital condyles] Heinz BC, et al. **Unfallchirurg** 1997 Feb;100(2):100–4 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Reproducibility in the measurement of atlanto–occipital instability in children with Down syndrome. Karol LA, et al. **Spine** 1996 Nov 1;21(21):2463–7; discussion 2468

Occipitoatlantal and occipitoaxial hypermobility in Down syndrome. Uno K, et al. **Spine** 1996 Jun 15;21(12):1430–4

SURGERY

Atlanto–occipital fusion for dislocation in children with neurologic preservation. A case report. Sponseller PD, et al. **Spine** 1997 Feb 1;22(3):344–7

ATLAS

Synovial cyst of the transverse ligament of the atlas causing tetraparesia in a context of generalized osteoarthritis [letter] Pizzolato GP, et al. **Clin Exp Rheumatol** 1997 Jan–Feb; 15(1):121–2

Employers ... road signs intended help employers put the atlas to use [news] **Hosp Health Netw** 1997 Jul 5;71(13):13

Aneurysmal bone cyst of the atlas: operative removal through an anterolateral approach. A case report. Bongioanni F, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1574–7

ABNORMALITIES

Myelopathy due to hypoplasia of the atlas. A case report. Yamashita K, et al. **Clin Orthop** 1997 May;(338):90–3

[Abnormality as differential diagnosis in atlas fracture] Haakonsen M, et al. **Tidsskr Nor Laegeforen** 1997 Apr 30; 117(11):1602–3 (Eng. Abstr.) **(Nor)**

ANATOMY & HISTOLOGY

Transverse process of the atlas(C1)—an important surgical landmark of the upper neck. Sheen TS, et al. **Head Neck** 1997 Jan;19(1):37–40

INJURIES

Craniocervical bone pneumatisation. Sadler DJ, et al. **Neuroradiology** 1996 May;38(4):330–2

Injuries involving the transverse atlantal ligament: classification and treatment guidelines based upon experience with 39 injuries [letter; comment] [see comments] Findlay JM. **Neurosurgery** 1996 Jul;39(1):210. Comment on: Neurosurgery 1996 Jan;38(1):44–50. Comment in: Neurosurgery 1997 Apr;40(4):886–7.

[Unstable Jefferson variant atlas fractures: an unrecognized cervical injury] Yang H, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):707–10 (Eng. Abstr.) **(Chi)**

[A case of atlanto–axial rotatory fixation associated with Jefferson's fracture] Kurimoto M, et al. **No Shinkei Geka** 1996 Jul;24(7):671–4 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Osteomyelitis of the atlas in an infant. Buxton N, et al. **Childs Nerv Syst** 1997 Mar;13(3):175–7

PHYSIOPATHOLOGY

Spinal cord compression caused by ossification of the transverse ligament of the atlas. Perera S, et al. **Br J Neurosurg** 1995;9(6):787–8

SURGERY

The ISG viewing wand: an application to atlanto–axial cervical surgery using the Le Fort I maxillary osteotomy. Dyer PV, et al. **Br J Oral Maxillofac Surg** 1995 Dec; 33(6):370–4

ATLASES

Publications. Atlas at the head of its class [news] **Hosp Health Netw** 1996 Dec 5;70(23):23

[1995 Berlin social structure atlas—a planning instrument for health and social planning within the scope of administrative reform in Berlin] Meinlschmidt G. **Gesundheitswesen** 1996 Feb;58(2):72–81 (Eng. Abstr.) **(Ger)**

ATLOIDO–OCCIPITAL JOINT see **ATLANTO–OCCIPITAL JOINT**

ATLV see **HTLV–I**

ATLV ANTIBODIES see **HTLV–I ANTIBODIES**

ATLV ANTIGENS see **HTLV–I ANTIGENS**

ATLV–ASSOCIATED LEUKEMIA–LYMPHOMA see **LEUKEMIA–LYMPHOMA, T–CELL, ACUTE, HTLV–I–ASSOCIATED**

ATMOSPHERE

Ultraviolet B radiation was increased at ground level in scotland during a period of ozone depletion. Moseley H, et al. **Br J Dermatol** 1997 Jul;137(1):101–2

Oxygen appeared in the Earth's atmosphere 3 million years ago [letter] Nunn JF. **Eur J Anaesthesiol** 1997 Mar; 14(2):228

Atmospheric electromagnetism: individual differences in brain electrical response to simulated sferics. Schienle A, et al. **Int J Psychophysiol** 1996 Feb–Mar;21(2–3):177–88

Effect of atmosphere on phase transformation in plasma–sprayed hydroxyapatite coatings during heat treatment. Chen J, et al. **J Biomed Mater Res** 1997 Jan; 34(1):15–20

Chemical characterization of the PM10 fraction of airborne particulate matter in the urban atmosphere. Bagnoli P, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2–3):219–25

Emission of isoprenoids by plants: their role in atmospheric chemistry, response to the environment, and biochemical pathways. Loreto F. **J Environ Pathol Toxicol Oncol** 1997; 16(2–3):119–24

Dengue fever epidemics in the South Pacific: driven by El Niño Southern Oscillation? [letter] [see comments] Hales S, et al. **Lancet** 1996 Dec 14;348(9042):1664–5. Comment in: Lancet 1997 Mar 8;349(9053):729.

Estimates of ozone depletion and skin cancer incidence to examine the Vienna Convention achievements. Slaper H, et al. **Nature** 1996 Nov 21;384(6606):256–8

Is extraterrestrial organic matter relevant to the origin of life on Earth? Whittet DC. **Orig Life Evol Biosph** 1997 Jun;27(1–3):249–62 (50 ref.)

ATMOSPHERE

Significant reduction of UVB caused by smoke from biomass burning in Brazil. Mims FM 3rd. **Photochem Photobiol** 1996 Nov;64(5):814–6

Solar UVB-induced DNA damage and photoenzymatic DNA repair in antarctic zooplankton. Malloy KD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1258–63

Predicting tropospheric degradation of chemicals: from estimation to computation. Güsten H, et al. **SAR QSAR Environ Res** 1995;4(4):197–209

[Degradation of the ozone layer and heliotherapy] Gushchin GK, et al. **Dokl Akad Nauk** 1997 May;354(1):127–30 **(Rus)**

ANALYSIS

Mt. Cimone Observatory: baseline station for the measurement of gaseous substances and radioactive tracers in the atmosphere. Bonasoni P, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2–3):239–44

Soil microorganisms as controllers of atmospheric trace gases (H2, CO, CH4, OCS, N2O, and NO). Conrad R. **Microbiol Rev** 1996 Dec;60(4):609–40 (602 ref.)

Near the lights of Vegas, chemists are on a roll [news] Service RF. **Science** 1997 Oct 3;278(5335):32–3

ATMOSPHERE EXPOSURE CHAMBERS

A test chamber for experimental hydrogen fluoride exposure in humans. Søstrand P, et al. **Am Ind Hyg Assoc J** 1997 Jul;58(7):521–5

The construction and validation of a high containment nose-only rodent inhalation facility. Hoskins JA, et al. **Ann Occup Hyg** 1997 Jan;41(1):51–61

Psychological reactions during polar expeditions and isolation in hyperbaric chambers. Sandal GM, et al. **Aviat Space Environ Med** 1996 Mar;67(3):227–34

Design and evaluation of an olfactometer for the assessment of 3-methylindole-induced hyposmia. Owens JG, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):60–70

Generation of stable test atmospheres of cocaine base and its pyrolyzate, methylecgonidine, and demonstration of their biological activity. Wood RW, et al. **Pharmacol Biochem Behav** 1996 Oct;55(2):237–48

Chamber challenges: the necessity of objective observation. Selner JC. **Regul Toxicol Pharmacol** 1996 Aug;24(1 Pt 2):S87–95

A small chamber for making optical measurements on single living cells at elevated hydrostatic pressure. Besch SR, et al. **Undersea Hyperb Med** 1996 Sep;23(3):175–84

[Indications for hyperbaric oxygen therapy. Organization of the treatment unit. Training of personnel] Wattel F, et al. **Bull Acad Natl Med** 1996 May;180(5):949–63; discussion 963–4 (Eng. Abstr.) **(Fre)**

[Theoretical evaluation of parameters of equally probable safe single-step hypobaric decompression] Nikolaev VP. **Dokl Akad Nauk** 1997 Apr;353(4):565–8 **(Rus)**

[Experience in treating patients with cardiovascular diseases by means of adaptation to periodic barochamber hypoxia] Aleshin IA, et al. **Ter Arkh** 1997;69(1):54–8 (Eng. Abstr.) **(Rus)**

[Barotherapy in the combined treatment of lymphovenous insufficiency of the lower extremities] Salimzhanov NN. **Vestn Khir Im I I Grek** 1997;156(2):104–6 **(Rus)**

VETERINARY

Chronic exposure of pigs to airborne dust and endotoxins in an environmental chamber: technical note. Urbain B, et al. **Vet Res** 1996;27(6):569–78

ATMOSPHERIC PRESSURE

see related
ALTITUDE
ANOXIA
BAROTRAUMA
DECOMPRESSION SICKNESS
HYPERBARIC OXYGENATION

Electrocochleographic effects of ear canal pressure change in subjects with Menière's disease. Storms RF, et al. **Am J Otol** 1996 Nov;17(6):874–82

Blood pressure and atmospheric pressure. Weinbacher M, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:335–6

Pressure gradients affecting the labyrinth during hypobaric pressure. Experimental study. Konrádsson KS, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):495–502

Eustachian tube function and middle ear barotrauma associated with extremes in atmospheric pressure. Miyazawa T, et al. **Ann Otol Rhinol Laryngol** 1996 Nov; 105(11):887–92

Clothing insulation in a hypobaric environment. Chang SK, et al. **Aviat Space Environ Med** 1996 Sep;67(9):827–34

A probabilistic model of hypobaric decompression sickness based on 66 chamber tests. Conkin J, et al. **Aviat Space Environ Med** 1996 Feb;67(2):176–83

Acute ventilatory response to simulated altitude, normobaric hypoxia, and hypobaria. Loeppky JA, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1019–22

The initial signs and symptoms of altitude decompression sickness. Ryles MT, et al. **Aviat Space Environ Med** 1996 Oct;67(10):983–9 (25 ref.)

Physiological training in Jordan. al-Wedyan IA, et al. **Aviat Space Environ Med** 1996 Sep;67(9):882–4

Hypoxic syncope. Westendorp RG, et al. **Aviat Space Environ Med** 1997 May;68(5):410–4

Cerebrospinal fluid transmitter metabolites and atmospheric pressure [letter; comment] Nordin C, et al. **Biol Psychiatry** 1996 Oct 1;40(7):682–4. Comment on: Biol Psychiatry 1996 Feb 15;39(4):299–301.

The effect of changes in barometric pressure on the risk of rupture of intracranial aneurysms. Landers AT, et al. **Br J Neurosurg** 1997 Jun;11(3):191–5

Effect of dietary flax oil and hypobaric hypoxia on right ventricular hypertrophy and ascites in broiler chickens. Bond JM, et al. **Br Poult Sci** 1996 Sep;37(4):731–41

Effects of physical training in a hypobaric chamber on the physical performance of competitive triathletes. Vallier JM, et al. **Eur J Appl Physiol** 1996;73(5):471–8

The effect of exposure to increased hydrostatic pressure up to 46 ATA on respiratory sinus arrhythmia in humans. Byrne DE, et al. **Exp Physiol** 1996 May;81(3):465–74

Muscle fatigue and exhaustion during dynamic leg exercise in normoxia and hypobaric hypoxia. Fulco CS, et al. **J Appl Physiol** 1996 Nov;81(5):1891–900

Acute mountain sickness: increased severity during simulated altitude compared with normobaric hypoxia. Roach RC, et al. **J Appl Physiol** 1996 Nov;81(5):1908–10

Prediction of barometric pressures at high altitude with the use of model atmospheres. West JB. **J Appl Physiol** 1996 Oct;81(4):1850–4

Association between significant decrease in barometric pressure and onset of labor. King EA, et al. **J Nurse Midwifery** 1997 Jan–Feb;42(1):32–4

Hypercoagulable state in a hypobaric, hypoxic environment causes non-bacterial thrombotic endocarditis in rats. Nakanishi K, et al. **J Pathol** 1997 Mar;181(3):338–46

Effects of exposure to hypobaric-hypoxia on body weight, muscular and hematological characteristics, and work performance in rats. Tanaka M, et al. **Jpn J Physiol** 1997 Feb;47(1):51–7

Effect of pressure on cultured smooth muscle cells. Watase M, et al. **Life Sci** 1997;61(10):987–96

Middle ear overpressure treatment of endolymphatic hydrops in guinea pigs. Sakikawa Y, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):84–90

Pulmonary, vascular responses in rats exposed to chronic hypobaric hypoxia at two different altitude levels. Nakanishi K, et al. **Pathol Res Pract** 1996 Oct; 192(10):1057–67

Inert gas and raised pressure: evidence that motor decrements are due to pressure per se and cognitive decrements due to narcotic action. Abraini JH. **Pflugers Arch** 1997 Apr; 433(6):788–91

Effects of prolonged exposure to and physical training in hypobaric conditions on skeletal muscle morphology and metabolic enzymes in rats. Perhonen M, et al. **Pflugers Arch** 1996 May;432(1):50–8

Role of 5-HT1b receptor in the pressure-induced behavioral and neurochemical disorders in rats. Kriem B, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):257–64

Forced expiration and inspiration under hyperbaric conditions. Hrnčíř E. **Physiol Res** 1996;45(6):471–3

Time course of lung growth following exposure to hypobaria and/or hypoxia in rats. Sekhon HS, et al. **Respir Physiol** 1996 Sep;105(3):241–52

Insensitivity of VO2max to hemoglobin-P50 as sea level and altitude. Wagner PD. **Respir Physiol** 1997 Mar; 107(3):205–12

A comparison of pathophysiological changes during hypobaric and normobaric hypoxia in rats. Sheedy W, et al. **Respiration** 1996;63(4):217–22

The effect of Losartan, an angiotensin II antagonist, on cardiac function, mass and morphology in rats after repeated hyperbaric exposures. Stuhr LE, et al. **Scand J Clin Lab Invest** 1997 May;57(3):253–61

Natural atmospherics and occurrence of seizures in six adolescents with epilepsy: a cross correlation study. Ruhenstroth-Bauer G, et al. **Seizure** 1995 Dec;4(4):303–6

[Role of hypoxia in the development of epileptiform seizures] Agadzhanian NA, et al. **Aviakosm Ekolog Med** 1996; 30(4):40–4 (Eng. Abstr.) **(Rus)**

[Compensatory reactions of the rabbit respiratory system to hypoxic stimulation in hyperbaric conditions] Donina ZhA, et al. **Aviakosm Ekolog Med** 1996;30(4):34–8 (Eng. Abstr.) **(Rus)**

[Normalizing effect of normobaric hypoxic hypoxia] Chizhov AIa, et al. **Fiziol Cheloveka** 1997 Jan–Feb;23(1):108–12 **(Rus)**

[The function of the brain structures in rabbits under the action of hyperbaric helium and nitrogen-oxygen mixtures] Sledkov AIu, et al. **Fiziol Zh** 1995 Sep–Dec;41(5–6):50–6 (Eng. Abstr.) **(Rus)**

[Monitoring brain PO2 as a means of predicting brain PN2 changes under hyperbaric oxygenation simulating free-floating conditions] Selivra AI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):98–105 (Eng. Abstr.) **(Rus)**

[A comparative analysis of monoamine oxidase activity in the tissues of the deep-sea squid (Berryteuthis magister) and the mouse under normal and elevated atmospheric pressure] Antipov AD, et al. **Zh Evol Biokhim Fiziol** 1996 May–Jun;32(3):233–40 (Eng. Abstr.) **(Rus)**

ATOMIC ENERGY see **NUCLEAR ENERGY**

ATOMIC FORCE MICROSCOPY see **MICROSCOPY, ATOMIC FORCE**

ATOMIC MEDICINE see **NUCLEAR MEDICINE**

ATOMIC WARFARE see **NUCLEAR WARFARE**

ATOMIZERS see **NEBULIZERS AND VAPORIZERS**

ATOPIC HYPERSENSITIVITY see **HYPERSENSITIVITY, IMMEDIATE**

ATP see **ADENOSINE TRIPHOSPHATE**

ATP-BINDING CASSETTE TRANSPORTERS see **ABC TRANSPORTERS**

ATP CHOLINE TRANSPHOSPHATASE see **CHOLINE KINASE**

ATP CITRATE LYASE

The reductive tricarboxylic acid cycle of carbon dioxide assimilation: initial studies and purification of ATP-citrate lyase from the green sulfur bacterium Chlorobium tepidum. Wahlund TM, et al. **J Bacteriol** 1997 Aug;179(15):4859–67

ANALYSIS

Vanadate induces normolipidemia and a reduction in the levels of hepatic lipogenic enzymes in obese Zucker rat. Pugazhenthi S, et al. **Mol Cell Biochem** 1995 Dec 6–20; 153(1–2):211–5

BIOSYNTHESIS

Transcriptional regulatory region for expression of the rat ATP citrate-lyase gene. Fukuda H, et al. **Eur J Biochem** 1997 Jul 15;247(2):497–502

GENETICS

Transcriptional regulatory region for expression of the rat ATP citrate-lyase gene. Fukuda H, et al. **Eur J Biochem** 1997 Jul 15;247(2):497–502

Variant cDNA sequences of human ATP:citrate lyase: cloning, expression, and purification from baculovirus-infected insect cells. Lord KA, et al. **Protein Expr Purif** 1997 Feb;9(1):133–41

Regulation of ATP-citrate lyase gene transcription. Kim KS, et al. **Yonsei Med J** 1996 Jun;37(3):214–24

ISOLATION & PURIFICATION

Variant cDNA sequences of human ATP:citrate lyase: cloning, expression, and purification from baculovirus-infected insect cells. Lord KA, et al. **Protein Expr Purif** 1997 Feb;9(1):133–41

METABOLISM

Correlation of ATP/citrate lyase activity with lipid accumulation in developing seeds of Brassica napus L. Ratledge C, et al. **Lipids** 1997 Jan;32(1):7–12

PHYSIOLOGY

Adenosine triphosphate citrate lyase mediates hypocitraturia in rats. Melnick JZ, et al. **J Clin Invest** 1996 Nov 15; 98(10):2381–7

ATP-DIPHOSPHATASE see **APYRASE**

ATP RECEPTORS see **RECEPTORS, PURINERGIC P2**

ATP SULFURYLASE see **SULFATE ADENYLYLTRANSFERASE**

ATPASE see **ADENOSINETRIPHOSPHATASE**

ATPASE, ACTOMYOSIN see **MYOSIN ATPASE**

ATPASE, CALCIUM see **CA(2+)-TRANSPORTING ATPASE**

ATPASE, CALCIUM MAGNESIUM see **CA(2+) MG(2+)-ATPASE**

ATPASE, DYNEIN see **DYNEIN ATPASE**

ATPASE, F0 see **H(+)-TRANSPORTING ATP SYNTHASE**

ATPASE, F1 see **H(+)-TRANSPORTING ATP SYNTHASE**

ATPASE, HYDROGEN, POTASSIUM see **H(+)-K(+)-EXCHANGING ATPASE**

ATPASE, MAGNESIUM see **CA(2+) MG(2+)-ATPASE**

ATPASE, MYOSIN see **MYOSIN ATPASE**

ATPASE, SODIUM, POTASSIUM see

NA(+)-K(+)-EXCHANGING ATPASE

ATRACTYLIC ACID see **ATRACTYLOSIDE**

ATRACTYLOSIDE

ANALOGS & DERIVATIVES

Carboxyatractylate- and cyclosporin A- sensitive uncoupling in liver mitochondria of ground squirrels during hibernation and arousal. Amerkhanov ZG, et al.
Biochem Mol Biol Int 1996 Apr;38(5):863–70

[Inhibitors of the ADP/ATP antiporter induce two Ca2+-dependent uncoupling systems in rat liver mitochondria] Mikhailova LM, et al. **Biokhimiia** 1996 Jul; 61(7):1270–8 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Lipid profiling in renal and hepatic tissue slices following exposure to atractyloside. Thanh NT, et al.
Biochem Soc Trans 1997 Feb;25(1):35S

Human papillomavirus (HPV) 16 E6 sensitizes cells to atractyloside-induced apoptosis: role of p53, ICE-like proteases and the mitochondrial permeability transition. Brown J, et al. **J Cell Biochem** 1997 Aug 1;66(2):245–55

TOXICITY

Selective cytotoxicity associated with in vitro exposure of fresh rat renal fragments and continuous cell lines to atractyloside. Obatomi DK, et al. **Arch Toxicol** 1996; 71(1–2):93–8

Inhibition of mitochondrial respiration and oxygen uptake in isolated rat renal tubular fragments by atractyloside. Obatomi DK, et al. **Toxicol Lett** 1996 Dec 16;89(2):155–61

ATRACURIUM

Pharmacokinetics, effects on renal function, and potentiation of atracurium-induced neuromuscular blockade after administration of a high dose of gentamicin in isoflurane-anesthetized dogs. Martinez EA, et al.
Am J Vet Res 1996 Nov;57(11):1623–6

Comparison of intubation conditions under propofol in children--alfentanil vs atracurium. Senel AC, et al.
Middle East J Anesthesiol 1996 Oct;13(6):605–11

[Drug onset time of atracurium after pancuronium priming in elderly patients] Geldner G, et al.
Anaesthesiol Reanim 1997;22(2):46–9 (Eng. Abstr.) **(Ger)**

[The effects of age on onset and recovery from atracurium, rocuronium and vecuronium blockade] de Almeida MC, et al. **Anaesthesist** 1996 Oct;45(10):903–6 (Eng. Abstr.) **(Ger)**

[New muscle relaxants. Update on mivacurium, rocuronium and cis-atracurium] Fuchs-Buder T. **Anaesthesist** 1997 Apr;46(4):350–9 (17 ref.) **(Ger)**

ADMINISTRATION & DOSAGE

Anthropometric variables as predictors for duration of action of atracurium-induced neuromuscular block.
Kirkegaard-Nielsen H, et al. **Anesth Analg** 1996 Nov; 83(5):1076–80

Pharmacodynamic dose-response and safety study of cisatracurium (51W89) in adult surgical patients during N2O-O2-opioid anesthesia. Lepage JY, et al.
Anesth Analg 1996 Oct;83(4):823–9

A comparison of cisatracurium and atracurium: onset of neuromuscular block after bolus injection and recovery after subsequent infusion. Mellinghoff H, et al.
Anesth Analg 1996 Nov;83(5):1072–5

Self-learning fuzzy logic control of neuromuscular block. Ross JJ, et al. **Br J Anaesth** 1997 Apr;78(4):412–5

Increased cis-atracurium requirements during prolonged administration to a child. Tobias JD. **Can J Anaesth** 1997 Jan;44(1):82–4

Double burst monitoring during recovery from atracurium-induced neuromuscular blockade: a comparison with train-of-four. Kirkegaard-Nielsen H, et al.
Int J Clin Monit Comput 1996 Nov;13(4):209–15

The infusion requirements and recovery characteristics of cisatracurium or atracurium in intensive care patients. Pearson AJ, et al. **Intensive Care Med** 1996 Jul;22(7):694–8

Model-driven closed-loop feedback infusion of atracurium and vecuronium during hypothermic cardiopulmonary bypass. Kansanaho M, et al.
J Cardiothorac Vasc Anesth 1997 Feb;11(1):58–61

Rocuronium priming of atracurium-induced neuromuscular blockade: the use of short priming intervals. Abdulatif M, et al. **J Clin Anesth** 1996 Aug;8(5):376–81

[Gynecologic laparoscopy with or without curare] Chassard D, et al. **Ann Fr Anesth Reanim** 1996;15(7):1013–7 (Eng. Abstr.) **(Fre)**

ADVERSE EFFECTS

Leg ischaemia in an infant following accidental intra-arterial administration of atracurium treated with caudal anaesthesia. Kessell G, et al. **Anaesthesia** 1996 Dec; 51(12):1154–6

Aortomyoplasty and muscle relaxants [letter] Pandit JJ.
Anesth Analg 1997 Sep;85(3):708–9

Atracurium and persistent paralysis [letter; comment] Marinella MA. **South Med J** 1997 Jan;90(1):95. Comment on: South Med J 1996 Jun;89(6):624–6.

[Importance of plasma (histamine and tryptase) and urinary (methylhistamine) in peri-anesthetic anaphylactic and/or anaphylactoid reactions] Cottineau C, et al.
Allerg Immunol (Paris) 1996 Oct;28(8):270, 273–6 (Eng. Abstr.) **(Fre)**

[Cardiovascular effects after bolus administration of cisatracurium. A comparison with vecuronium] Soukup J, et al. **Anaesthesist** 1996 Nov;45(11):1024–9 (Eng. Abstr.) **(Ger)**

[Acute rhabdomyolysis in status asthmaticus] Eisenhuber E, et al. **Wien Klin Wochenschr** 1996;108(16):521–4 (Eng. Abstr.) **(Ger)**

ANALOGS & DERIVATIVES

Compatibility of cisatracurium besylate with selected drugs during simulated Y-site administration. Trissel LA, et al.
Am J Health Syst Pharm 1997 Aug 1;54(15):1735–41

The lack of histamine release with cisatracurium: a double-blind comparison with vecuronium. Doenicke A, et al. **Anesth Analg** 1997 Mar;84(3):623–8

Importance of the organ-independent elimination of cisatracurium [see comments] Kisor DF, et al.
Anesth Analg 1996 Nov;83(5):1065–71. Comment in: Anesth Analg 1996 Nov;83(5):901–3.

Pharmacodynamic dose-response and safety study of cisatracurium (51W89) in adult surgical patients during N2O-O2-opioid anesthesia. Lepage JY, et al.
Anesth Analg 1996 Oct;83(4):823–9

A comparison of cisatracurium and atracurium: onset of neuromuscular block after bolus injection and recovery after subsequent infusion. Mellinghoff H, et al.
Anesth Analg 1996 Nov;83(5):1072–5

Nimbex (cis-atracurium). **Anesthesiology** 1996 Sep;85(3):31A

Effects of 0.86 mg/kg cisatracurium in an infant [letter] Brandom BW, et al. **Anesthesiology** 1996 Sep;85(3):688–9

Anaphylactic reaction after cisatracurium. Clendenen SR, et al. **Anesthesiology** 1997 Sep;87(3):690–2

Rocuronium and cisatracurium. Pollard BJ.
Br J Hosp Med 1997 Apr 2–15;57(7):346–8

Evaluation of cisatracurium, a new neuromuscular blocking agent, for tracheal intubation. Bluestein LS, et al.
Can J Anaesth 1996 Sep;43(9):925–31

A comparison of cisatracurium (51W89) and atracurium by infusion in critically ill patients. Newman PJ, et al.
Crit Care Med 1997 Jul;25(7):1139–42

Cisatracurium besilate. A review of its pharmacology and clinical potential in anaesthetic practice. Bryson HM, et al. **Drugs** 1997 May;53(5):848–66 (66 ref.)

The infusion requirements and recovery characteristics of cisatracurium or atracurium in intensive care patients. Pearson AJ, et al. **Intensive Care Med** 1996 Jul;22(7):694–8

Dose proportionality of cisatracurium. Schmith VD, et al.
J Clin Pharmacol 1997 Jul;37(7):625–9

Cisatracurium during halothane and balanced anaesthesia in children. Meretoja OA, et al. **Paediatr Anaesth** 1996; 6(5):373–8

Prospective use of population pharmacokinetics/pharmacodynamics in the development of cisatracurium. Schmith VD, et al. **Pharm Res** 1997 Jan; 14(1):91–7

[The clinical pharmacology of cisatracurium] Mellinghoff H, et al. **Anaesthesist** 1997 Jun;46(6):481–5 (30 ref.) (Eng. Abstr.) **(Ger)**

[Cisatracurium--is the stereoisomer an "ideal" relaxant? Histamine liberation and tryptase determination after bolus administration of cistracurium: a comparison with vecuronium] Soukup J, et al. **Anaesthesist** 1997 Jun; 46(6):486–91 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

Optimum time for neostigmine reversal of atracurium-induced neuromuscular blockade.
Kirkegaard-Nielsen H, et al. **Can J Anaesth** 1996 Sep; 43(9):932–8

CHEMISTRY

Chemical stability and adsorption of atracurium besylate injections in disposable plastic syringes. Pramar YV, et al.
J Clin Pharm Ther 1996 Jun;21(3):173–5

PHARMACOKINETICS

A pharmacokinetic-pharmacodynamic model for a muscle relaxant: atracurium. Nigrovic V, et al.
Eur J Clin Pharmacol 1996;49(4):325–32

Chemical stability and adsorption of atracurium besylate injections in disposable plastic syringes. Pramar YV, et al.
J Clin Pharm Ther 1996 Jun;21(3):173–5

PHARMACOLOGY

Comparison of neuromuscular block of atracurium and rocuronium in adults. Hans P, et al.
Acta Anaesthesiol Belg 1996;47(2):53–8

Potentiation of atracurium by pancuronium during propofol-fentanyl-N2O anesthesia. Nathan N, et al.
Acta Anaesthesiol Belg 1996;47(4):187–93

Resistance to atracurium [letter] Gronert GA.
Acta Anaesthesiol Scand 1997 Feb;41(2):327

A comparison of the neuromuscular blocking effects of atracurium, mivacurium, and vecuronium on the adductor pollicis and the orbicularis oculi muscle in humans. Rimaniol JM, et al. **Anesth Analg** 1996 Oct;83(4):808–13

Free revascularized jejunal loop repair following total pharyngolaryngectomy for carcinoma of the hypopharynx: report of 90 patients. Jones AS, et al. **Br J Surg** 1996 Sep; 83(9):1279–3

Fasciculations, myalgia and biochemical changes following succinylcholine with atracurium and lidocaine pretreatment. Raman SK, et al. **Can J Anaesth** 1997 May; 44(5 Pt 1):498–502

Cisatracurium: a new nondepolarizing neuromuscular blocking agent. Owens CA, et al. **Conn Med** 1996 Aug; 60(8):461–3 (22 ref.)

Atracurium induced vasodilatation is not mediated by histamine in the isolated femoral artery of the rabbit. de Jong DM, et al. **Eur J Anaesthesiol** 1996 Jul;13(4):333–9

Cardiovascular responses to neuromuscular blockade in the anemic ovine fetus. Shields LE, et al.
J Matern Fetal Med 1997 Jul-Aug;6(4):195–9

[Delay of clinical recovery from paralysis induced by atracurium: comparison between orbicularis oculi and adductor pollicis] Cohendy R, et al.
Ann Fr Anesth Reanim 1996;15(7):1028–31 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

A comparison of cisatracurium (51W89) and atracurium by infusion in critically ill patients. Newman PJ, et al.
Crit Care Med 1997 Jul;25(7):1139–42

Treatment of congenital endplate acetylcholinesterase deficiency by neuromuscular blockade. Breningstall GN, et al. **J Child Neurol** 1996 Jul;11(4):345–6

ATRACURIUM BESYLATE see **ATRACURIUM**

ATRACURIUM DIBESYLATE see **ATRACURIUM**

ATRAZINE

ANALOGS & DERIVATIVES

The inhibition of estrogen receptor-mediated responses by chloro-S-triazine-derived compounds is dependent on estradiol concentration in yeast. Tran DQ, et al.
Biochem Biophys Res Commun 1996 Oct 3;227(1):140–6

Enhanced degradation of deethylatrazine in an atrazine-history soil of Iowa. Arthur EL, et al.
J Environ Sci Health B 1997 Sep;32(5):599–620

ANALYSIS

Analytical performance testing of an atrazine immunoassay system. Comber SD, et al. **Analyst** 1996 Oct;121(10):1485–8

Comparison of gas chromatography/mass spectrometry and immunoassay techniques on concentrations of atrazine in storm runoff. Lydy MJ, et al.
Arch Environ Contam Toxicol 1996 Oct;31(3):378–85

Construction and characterization of the direct piezoelectric immunosensor for atrazine operating in solution. Steegborn C, et al. **Biosens Bioelectron** 1997;12(1):19–27

Electrochemiluminescence flow injection immunoassay for atrazine. Wilson R, et al. **Biosens Bioelectron** 1997; 12(4):277–86

Comparison of an enzyme immunoassay with gas chromatography for atrazine determination in water and soil. Jenks BM, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):696–703

Determination of atrazine in water by magnetic particle immunoassay: collaborative study. Hayes MC, et al.
J AOAC Int 1996 Mar-Apr;79(2):529–37

Evaluation of atrazine positive and false positive immunoassay detections in ground water. Watts DW, et al. **J Environ Sci Health B** 1997 Sep;32(5):659–71

Factors affecting atrazine fate in north central U.S. soils. Koskinen WC, et al. **Rev Environ Contam Toxicol** 1997; 151:117–65 (225 ref.)

CHEMISTRY

Modeling the environmental fate of atrazine. Devillers J, et al. **SAR QSAR Environ Res** 1997;6(1–2):63–79

ISOLATION & PURIFICATION

Molecularly imprinted solid phase extraction of atrazine from beef liver extracts. Muldoon MT, et al. **Anal Chem** 1997 Mar 1;69(5):803–8

METABOLISM

The atzB gene of Pseudomonas sp. strain ADP encodes the second enzyme of a novel atrazine degradation pathway. Boundy-Mills KL, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):916–23

Manganese-enhanced biotransformation of atrazine by the white rot fungus Pleurotus pulmonarius and its correlation with oxidation activity. Masaphy S, et al.
Appl Environ Microbiol 1996 Oct;62(10):3587–93

Atrazine movement and dissipation in a sandy loam soil under irrigation: an immunoenzymatic study. Tasli S, et al.
Bull Environ Contam Toxicol 1996 Mar;56(3):359–66

Movement of three s-triazine herbicides atrazine, simazine, and ametryn in subtropical soils. Wang Y, et al.
Bull Environ Contam Toxicol 1996 Nov;57(5):743–50

ATRAZINE

Effect of Ozonation on the biodegradability of atrazine in GAC columns. Huang CM, et al.
J Environ Sci Health B 1996 Nov;31(6):1253–66

PHARMACOKINETICS

Determination of atrazine levels in whole saliva and plasma in rats: potential of salivary monitoring for occupational exposure. Lu C, et al. **J Toxicol Environ Health** 1997 Feb 7;50(2):101–11

PHARMACOLOGY

The inhibition of estrogen receptor-mediated responses by chloro-S-triazine-derived compounds is dependent on estradiol concentration in yeast. Tran DQ, et al.
Biochem Biophys Res Commun 1996 Oct 3;227(1):140–6

Failure of chloro-S-triazine-derived compounds to induce estrogen receptor-mediated responses in vivo and in vitro. Connor K, et al. **Fundam Appl Toxicol** 1996 Mar; 30(1):93–101

Induced new mutation of D1 serine-268 in soybean photosynthetic cell cultures produced atrazine resistance, increased stability of S2QB- and S3QB- states, and increased sensitivity to light stress. Alfonso M, et al.
Plant Physiol 1996 Dec;112(4):1499–508

Partial molecular analysis of the psbA gene in Euglena gracilis mutants exhibiting resistance to DCMU and atrazine. Thuillier-Bruston F, et al. **Z Naturforsch [C]** 1996 Sep-Oct;51(9–10):711–20

TOXICITY

Effects of organic solvents and solvent-atrazine interactions on two algae, Chlorella vulgaris and Selenastrum capricornutum. El Jay A. **Arch Environ Contam Toxicol** 1996 Jul;31(1):84–90

Comparative studies on the effects of herbicide atrazine on freshwater fish Oreochromis niloticus and Chrysichthyes auratus at Assiut, Egypt. Hussein SY, et al.
Bull Environ Contam Toxicol 1996 Sep;57(3):503–10

Differential toxicity of atrazine to selected freshwater algae. Tang J, et al. **Bull Environ Contam Toxicol** 1997 Oct; 59(4):631–7

Assessing the estrogenic and dioxin-like activities of chemicals and complex mixtures using in vitro recombinant receptor-reporter gene assays. Balaguer P, et al.
Can J Physiol Pharmacol 1996 Feb;74(2):216–22

Biochemical and genetic interactions of two commercial pesticides with the monooxygenase system and chlorophyllin. Della Croce C, et al.
J Environ Pathol Toxicol Oncol 1996;15(1):21–8

Effect of atrazine on ovarian function in the rat. Cooper RL, et al. **Reprod Toxicol** 1996 Jul-Aug;10(4):257–64

ATRESIA, BILIARY see **BILIARY ATRESIA**

ATRESIA, CHOANAL see **CHOANAL ATRESIA**

ATRESIA, ESOPHAGEAL see **ESOPHAGEAL ATRESIA**

ATRESIA, FOLLICULAR see **FOLLICULAR ATRESIA**

ATRESIA, INTESTINAL see **INTESTINAL ATRESIA**

ATRESIA, PULMONARY see **PULMONARY ATRESIA**

ATRESIA, TRICUSPID see **TRICUSPID ATRESIA**

ATRIAL ECTOPIC BEATS see **ATRIAL PREMATURE COMPLEXES**

ATRIAL ECTOPIC TACHYCARDIA see **TACHYCARDIA, ECTOPIC ATRIAL**

ATRIAL FIBRILLATION

New-onset atrial fibrillation: when is admission medically justified? [see comments] Mulcahy B, et al.
Acad Emerg Med 1996 Feb;3(2):114–19. Comment in: Acad Emerg Med 1996 Aug;3(8):819–20; discussion 821. Comment in: Acad Emerg Med 1996 Aug;3(8):820–1.

Atrial fibrillation. Kastor JA. **Adv Intern Med** 1996;41:365–97 (193 ref.)

Quality of life in patients with atrial fibrillation. Jenkins LS, et al. **Cardiol Clin** 1996 Nov;14(4):597–606 (35 ref.)

Configuration of unipolar atrial electrograms during electrically induced atrial fibrillation in humans. Konings KT, et al. **Circulation** 1997 Mar 4;95(5):1231–41

Mechanism of ventricular rate control after radiofrequency modification of atrioventricular conduction in patients with atrial fibrillation. Markowitz SM, et al. **Circulation** 1996 Dec 1;94(11):2856–64

Atrial fibrillation in the elderly. Reardon M, et al.
Clin Cardiol 1996 Oct;19(10):765–75 (134 ref.)

Unravelling the electrical mysteries of atrial fibrillation. Allessie MA, et al. **Eur Heart J** 1996 Jul;17 Suppl C:2–9 (5 ref.)

Alteration of peripheral vasodilatory reserve capacity after cardioversion of atrial fibrillation. Gosselink AT, et al.
Eur Heart J 1996 Jun;17(6):926–34

Spontaneous restoration of sinus rhythm after cardiac surgery [letter] Sechi LA, et al. **Eur Heart J** 1996 Dec;17(12):1914 (5 ref.)

Blind atrial pacing for patients with sinus node disease who develop atrial fibrillation during permanent pacemaker implantation. Fyfe T, et al. **Int J Cardiol** 1997 Jan 31; 58(2):188–91

[Paroxysmal atrial fibrillation, paroxysmal atrial flutter, paroxysmal atrial fibrillo-flutter] Kitamura M, et al.
Ryoikibetsu Shokogun Shirizu 1996;(12):523–5 (18 ref.) **(Jpn)**

[Atrial fibrillation, atrial flutter] Nakata Y.
Ryoikibetsu Shokogun Shirizu 1996;(12):337–41 **(Jpn)**

[Paroxysmal atrial fibrillation, atrial flutter, and atrial flutter-fibrillation] Sumiyoshi M, et al.
Ryoikibetsu Shokogun Shirizu 1996;(12):440–3 (7 ref.) **(Jpn)**

[Atrial fibrillation--no malignant heart arrhythmia (letter; comment)] Stavem P. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1187–8. Comment on: Tidsskr Nor Laegeforen 1997 Feb 10;117(4):490–1. **(Nor)**

[Atrial fibrillation in medical practice] Rodríguez Suárez ML, et al. **Aten Primaria** 1996 Nov 15;18(8):458–64 (27 ref.) **(Spa)**

BLOOD

Thyrotropin testing in recent-onset atrial fibrillation [letter; comment] Schreiber R. **Arch Intern Med** 1997 Jun 23; 157(12):1385, 1390. Comment on: Arch Intern Med 1996 Oct 28;156(19):2221–4.

Platelet activation in embolic and preembolic status of patients with nonrheumatic atrial fibrillation. Pongratz G, et al. **Chest** 1997 Apr;111(4):929–33

Coagulation in chronic atrial fibrillation [letter; comment] Meloni L, et al. **Circulation** 1997 Aug 5;96(3):1053–4; discussion 1055–6. Comment on: Circulation 1996 Aug 1;94(3):425–31.

Coagulation in chronic atrial fibrillation [letter; comment] Peverill RE, et al. **Circulation** 1997 Aug 5;96(3):1054–6. Comment on: Circulation 1996 Aug 1;94(3):425–31.

Biochemical markers of coagulation activation in mitral stenosis, atrial fibrillation, and cardiomyopathy. Ikeda U, et al. **Clin Cardiol** 1997 Jan;20(1):7–10 (36 ref.)

Nonvalvular atrial fibrillation: evidence for a prothrombotic state [see comments] Kahn SR, et al. **CMAJ** 1997 Sep 15; 157(6):673–81. Comment in: CMAJ 1997 Sep 15;157(6):695–7.

Increased tissue plasminogen activator levels in patients with nonvalvular atrial fibrillation [see comments] Kahn SR, et al. **CMAJ** 1997 Sep 15;157(6):685–9. Comment in: CMAJ 1997 Sep 15;157(6):695–7.

Hypercoagulability and haemodynamic abnormalities in atrial fibrillation [comment] Lip GY. **Heart** 1997 May;77(5):395–6 . Comment on: Heart 1997 May;77(5):407–11.

Atrial fibrillation activates platelets and coagulation in a time-dependent manner: a study in patients with paroxysmal atrial fibrillation. Sohara H, et al.
J Am Coll Cardiol 1997 Jan;29(1):106–12

Increase in erythrocyte volume in patients with chronic atrial fibrillation. Takahashi N, et al. **Jpn Heart J** 1997 May; 38(3):387–91

Failure of plasma atrial natriuretic peptide levels to increase during exercise in patients with chronic atrial fibrillation. Kelly PA, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):10–6

Relationship between prothrombin activation fragment F1.2 and international normalized ratio in patients with atrial fibrillation. Stroke Prevention in Atrial Fibrillation Investigators. Feinberg WM, et al. **Stroke** 1997 Jun; 28(6):1101–6

CHEMICALLY INDUCED

Adenosine-induced atrial arrhythmia: a prospective analysis. Strickberger SA, et al. **Ann Intern Med** 1997 Sep 15; 127(6):417–22

Alcohol concentration determines the type of atrial arrhythmia induced in a porcine model of acute alcoholic intoxication. Anadon MJ, et al.
Pacing Clin Electrophysiol 1996 Nov;19(11 Pt 2):1962–7

[Clinico-pharmacological case (4). Epileptic seizure as an unwanted drug effect on theophylline poisoning] Schlienger RG, et al. **Schweiz Rundsch Med Prax** 1996 Oct 29;85(44):1407–12 (39 ref.) (Eng. Abstr.) **(Ger)**

CLASSIFICATION

Classification of atrial fibrillation [editorial] Gallagher MM, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1603–5

Repeatability of discrete classifications: application to the initiation of atrial fibrillation. Hnatkova K, et al.
Pacing Clin Electrophysiol 1997 Mar;20(3 Pt 1):726–9

COMPLICATIONS

Neurally mediated syncope complicated with paroxysmal atrial fibrillation. Kato H, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):695–8

Atrial fibrillation and stroke prevention in the community. O'Connell JE, et al. **Age Ageing** 1996 Jul;25(4):307–9

Silent lacunar infarcts in elderly patients with chronic non valvular atrial fibrillation. Zito M, et al. **Aging (Milano)** 1996 Oct;8(5):341–6

The intravascular mobile structure detected with duplex carotid ultrasound in patients with cardioembolic carotid artery occlusion [letter] [see comments] Kimura K, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1390–1. Comment in: AJNR Am J Neuroradiol 1997 Aug;18(7):1391–2.

The intravascular mobile structure detected with duplex carotid ultrasound in patients with cardioembolic carotid artery occlusion [letter; comment] Ullrich CG.
AJNR Am J Neuroradiol 1997 Aug;18(7):1391–2. Comment on: AJNR Am J Neuroradiol 1997 Aug;18(7):1390–1.

Recurrent dilated cardiomyopathy reversed with conversion of atrial fibrillation. Kessler G, et al. **Am Heart J** 1997 Mar;133(3):384–6

Atrial fibrillation and stroke: elucidating a newly discovered risk factor. Giardina EG. **Am J Cardiol** 1997 Aug 28; 80(4C):11D–18D; discussion 35D–39D (42 ref.)

The efficacy of aspirin in patients with atrial fibrillation. Analysis of pooled data from 3 randomized trials. The Atrial Fibrillation Investigators. **Arch Intern Med** 1997 Jun 9;157(11):1237–40

Underuse of warfarin in atrial fibrillation [letter; comment] Cheng TO. **Arch Intern Med** 1997 Jul 14;157(13):1505. Comment on: Arch Intern Med 1996 Nov 11;156(20):2311–6.

Atrial fibrillation and stroke prevention with warfarin in the long-term care setting. Gurwitz JH, et al.
Arch Intern Med 1997 May 12;157(9):978–84

Is warfarin underused in the treatment of elderly persons with atrial fibrillation? [see comments] Whittle J, et al.
Arch Intern Med 1997 Feb 24;157(4):441–5. Comment in: Arch Intern Med 1997 Jul 28;157(14):1613, 1617.

Stroke prevention in atrial fibrillation [editorial] Lancaster T, et al. **BMJ** 1997 May 31;314(7094):1563–4

Prevention of thromboembolism in patients with atrial fibrillation. Cohen IS, et al. **Cardiol Clin** 1996 Nov; 14(4):537–42 (30 ref.)

Fibrin D-dimer and beta-thromboglobulin as markers of thrombogenesis and platelet activation in atrial fibrillation. Effects of introducing ultra-low-dose warfarin and aspirin [see comments] Lip GY, et al. **Circulation** 1996 Aug 1; 94(3):425–31. Comment in: Circulation 1997 Aug 5;96(3):1053–4; discussion 1055–6. Comment in: Circulation 1997 Aug 5;96(3):1054–6.

Clarithromycin-associated digoxin toxicity in the elderly. Brown BA, et al. **Clin Infect Dis** 1997 Jan;24(1):92–3

Atrial fibrillation and stroke: what we know, what's new, and what we should do now [editorial; comment] Landefeld CS. **CMAJ** 1997 Sep 15;157(6):695–7. Comment on: CMAJ 1997 Sep 15;157(6):673–81. Comment on: CMAJ 1997 Sep 15;157(6):685–9.

Atrial fibrillation, anticoagulation, and electroconvulsive therapy. Petrides G, et al. **Convuls Ther** 1996 Jun;12(2):91–8

Atrial fibrillation and embolic complications [see comments] Maru M. **East Afr Med J** 1997 Jan;74(1):3–5. Comment in: East Afr Med J 1997 Jan;74(1):1–2.

Stroke and atrial fibrillation in sick sinus syndrome [editorial] Alt E, et al. **Heart** 1997 Jun;77(6):495–7

Haemostatic and haemodynamic abnormalities associated with left atrial thrombosis in non-rheumatic atrial fibrillation [see comments] Heppell RM, et al. **Heart** 1997 May;77(5):407–11. Comment in: Heart 1997 May;77(5):395–6.

Heart failure and atrial fibrillation: current concepts and controversies. Van den Berg MP, et al. **Heart** 1997 Apr; 77(4):309–13 (38 ref.)

Atrial fibrillation begets trouble [editorial] Waktare JE, et al. **Heart** 1997 May;77(5):393–4

Paroxysmal atrial fibrillation: is anticoagulation justified? [editorial] [see comments] Aboaf AP, et al.
Hosp Pract (Off Ed) 1996 Dec 15;31(12):11, 15–6, 19. Comment in: Hosp Pract (Off Ed) 1997 Mar 15;32(3):38, 41.

Predictors of ischemic stroke in non-rheumatic atrial fibrillation. Yoshida M, et al. **Int J Cardiol** 1996 Sep; 56(1):61–70

An adverse reaction to angiotensin-converting enzyme inhibitors in a patient with neglected C1 esterase inhibitor deficiency. Ebo DG, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):425–6

Improving survival for patients with atrial fibrillation and advanced heart failure. Stevenson WG, et al.
J Am Coll Cardiol 1996 Nov 15;28(6):1458–63

Physician attitudes concerning warfarin for stroke prevention in atrial fibrillation: results of a survey of long-term care practitioners. Monette J, et al. **J Am Geriatr Soc** 1997 Sep; 45(9):1060–5

Incidence of ischemic strokes in hypertrophic cardiomyopathy is markedly increased if complicated by atrial fibrillation. Higashikawa M, et al. **Jpn Circ J** 1997 Aug;61(8):673–81

Does paroxysmal atrial fibrillation confer a paroxysmal thromboembolic risk? Lip GY. **Lancet** 1997 May 31; 349(9065):1565–6

Splenic and renal infarctions complicating atrial fibrillation. Argiris A. **Mt Sinai J Med** 1997 Sep-Oct;64(4–5):342–9

Clinical characteristics and management of acute stroke in patients with atrial fibrillation admitted to US university hospitals. Albers GW, et al. **Neurology** 1997 Jun; 48(6):1598–604

Embolic brain infarction in nonrheumatic atrial fibrillation: a clinicopathologic study in the elderly. Yamanouchi H, et al. **Neurology** 1997 Jun;48(6):1593–7

Atrial fibrillation and dilated cardiomyopathy [letter] Cheng TO. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1892–3

Atrial electrophysiological features in patients with

Wolff-Parkinson-White and atrial fibrillation: absence of rate adaptation of intraatrial conduction time parameters. Riccardi R, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1318-27

Anticoagulation for atrial fibrillation: epidemiology informing a difficult clinical decision. Singer DE. **Proc Assoc Am Physicians** 1996 Jan;108(1):29-36 (30 ref.)

Carotid stenosis associated with atrial fibrillation. Ruivo A, et al. **Rev Neurol** 1996 Jan;24(125):55-8

Acute stroke with atrial fibrillation. The Copenhagen Stroke Study. Jørgensen HS, et al. **Stroke** 1996 Oct;27(10):1765-9

Stroke severity in atrial fibrillation. The Framingham Study [see comments] Lin HJ, et al. **Stroke** 1996 Oct; 27(10):1760-4. Comment in: ACP J Club 1997 Mar-Apr;126(2):47.

Stroke prevention in non-rheumatic atrial fibrillation. Duncan GW. **Tenn Med** 1997 Jan;90(1):21-2

[Prevention of thromboembolism in patients with atrial fibrillation] Veselka J, et al. **Vnitr Lek** 1996 Nov; 42(11):792-5 (29 ref.) (Eng. Abstr.) **(Cze)**

[Embolic splenic infarction: a rare complication of atrial fibrillation] Merims D, et al. **Harefuah** 1997 Jun 15; 132(12):844-6, 911 (Eng. Abstr.) **(Heb)**

[Association of AV reciprocating tachycardia, using a concealed bundle of Kent, and paroxysmal atrial fibrillation in neurocardiogenic syncope] Fazekas T, et al. **Orv Hetil** 1996 Aug 18;137(33):1815-9 (Eng. Abstr.) **(Hun)**

[Prevention of thromboembolism in atrial fibrillation of non-valvular etiology] Cattaneo M. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:15S-17S (10 ref.) (Eng. Abstr.) **(Ita)**

[Cardiomyopathy induced by tachycardia: description of a typical clinical case] Gardini A, et al. **G Ital Cardiol** 1997 Jul;27(7):697-700 (Eng. Abstr.) **(Ita)**

[Transesophageal echocardiography in patients with chronic atrial fibrillation and cerebral ischemia] Pennacchietti L, et al. **Minerva Cardioangiol** 1995 Oct;43(10):419-22 (Eng. Abstr.) **(Ita)**

[Transesophageal echocardiographic findings of cortical and perforating infarctions in patients with atrial fibrillation] Shinokawa N, et al. **J Cardiol** 1997;29 Suppl 2:43-8 (Eng. Abstr.) **(Jpn)**

[Atrial fibrillation. What's new in treatment and prophylaxis of embolic complications?] Musiał WJ. **Pol Merkuriusz Lek** 1996 Nov;1(5):351-4 (41 ref.) (Eng. Abstr.) **(Pol)**

[Anatomo-clinical correlation. Case 2/96 (letter)] Sternick EB. **Arq Bras Cardiol** 1996 Nov;67(5):367-8 **(Por)**

[Antithrombotic therapy in atrial fibrillation] Farré J, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:42-9 (27 ref.) (Eng. Abstr.) **(Spa)**

CONGENITAL

Left isomerism in a middle-aged woman with early-onset atrial fibrillation. Wang TD, et al. **Int J Cardiol** 1997 Feb; 58(3):269-72

DIAGNOSIS

Sleep-disordered breathing: a novel predictor of atrial fibrillation after coronary artery bypass surgery. Mooe T, et al. **Coron Artery Dis** 1996 Jun;7(6):475-8

Re-evaluation of the role of P-wave duration and morphology as predictors of atrial fibrillation and flutter after coronary artery bypass surgery. Frost L, et al. **Eur Heart J** 1996 Jul;17(7):1065-71

Signal averaged P wave compared with standard electrocardiography or echocardiography for prediction of atrial fibrillation after coronary bypass grafting. Stafford PJ, et al. **Heart** 1997 May;77(5):417-22

The role of signal averaged P wave duration and serum magnesium as a combined predictor of atrial fibrillation after elective coronary artery bypass surgery. Zaman AG, et al. **Heart** 1997 Jun;77(6):527-31

Detection of patients at risk for recurrence of atrial fibrillation after successful electrical cardioversion by signal-averaged P-wave ECG. Opolski G, et al. **Int J Cardiol** 1997 Jul 25;60(2):181-5

P-wave dispersion index: a marker of patients with paroxysmal atrial fibrillation. Villani GQ, et al. **Int J Cardiol** 1996 Jul 26;55(2):169-75

Feasibility of atrial fibrillation detection and use of a preceding synchronization interval as a criterion for shock delivery in humans with atrial fibrillation. Sra JS, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1532-8

Mode switch despite undersensing of atrial fibrillation in DDD pacing. Bonnet JL, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1724-8

Immediate and short-term reproducibility of the P wave signal-averaged electrocardiogram. Ehlert FA, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1636-45

What's wrong with this atrial fibrillation? Ide B, et al. **Prog Cardiovasc Nurs** 1997 Spring;12(2):40

Cardioversion of atrial fibrillation. State of the art, 1995. Rydén L, et al. **S Afr Med J** 1996 Jun;86 Suppl 3:C152-8 (45 ref.)

[What is your diagnosis? Ventricular tachycardia with capture beats in bradycardiac atrial fibrillation] Kohler HP. **Schweiz Rundsch Med Prax** 1996 Dec 10;85(50):1599-600 **(Ger)**

[Atrial fibrillation and the short P-Q interval syndrome] Paleev NR, et al. **Ter Arkh** 1997;69(3):52-5 **(Rus)**

[Electrocardiographic diagnosis and acute treatment of atrial fibrillation and flutter episodes] Pastor Fuentes A, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:22-31 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Efficacy and safety of sotalol in patients with refractory atrial fibrillation or flutter. Gallik DM, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):155-60

Acute treatment of atrial fibrillation and flutter. Anderson JL. **Am J Cardiol** 1996 Oct 17;78(8A):17-21 (23 ref.)

Conversion of recent-onset Atrial Fibrillation by a single oral dose of Pilsicainide (Pilsicainide Suppression Trial on atrial fibrillation). The PSTAF Investigators. Atarashi H, et al. **Am J Cardiol** 1996 Sep 15;78(6):694-7

Control of heart rate during transition from intravenous to oral diltiazem in atrial fibrillation or flutter. Blackshear JL, et al. **Am J Cardiol** 1996 Dec 1;78(11):1246-50

Intravenous clofilium for conversion of atrial fibrillation. Borzak S, et al. **Am J Cardiol** 1997 Jan 1;79(1):94-7

Quinidine versus propafenone for conversion of atrial fibrillation to sinus rhythm. Di Benedetto S. **Am J Cardiol** 1997 Aug 15;80(4):518-9

Efficacy of ibutilide for termination of atrial fibrillation and flutter. Ellenbogen KA, et al. **Am J Cardiol** 1996 Oct 17; 78(8A):42-5 (18 ref.)

Safety and risk/benefit analysis of ibutilide for acute conversion of atrial fibrillation/flutter. Kowey PR, et al. **Am J Cardiol** 1996 Oct 17;78(8A):46-52 (15 ref.)

Comparisons of oral propafenone and sotalol as an initial treatment in patients with symptomatic paroxysmal atrial fibrillation. Lee SH, et al. **Am J Cardiol** 1997 Apr 1; 79(7):905-8

Management of atrial fibrillation after coronary artery bypass graft. Olshansky B. **Am J Cardiol** 1996 Oct 17;78(8A):27-34 (57 ref.)

Pilot study and protocol of the Canadian Trial of Atrial Fibrillation (CTAF). Roy D, et al. **Am J Cardiol** 1997 Aug 15;80(4):464-8

Propafenone for conversion and prophylaxis of atrial fibrillation. Propafenone Atrial Fibrillation Trial Investigators. Stroobandt R, et al. **Am J Cardiol** 1997 Feb 15;79(4):418-23

Efficacy, safety, and determinants of conversion of atrial fibrillation and flutter with oral amiodarone. Tieleman RG, et al. **Am J Cardiol** 1997 Jan 1;79(1):53-7

Introduction: acute treatment of atrial fibrillation and flutter--ibutilide in perspective. Waldo AL, et al. **Am J Cardiol** 1996 Oct 17;78(8A):1-2

Dilemmas in the acute pharmacologic treatment of uncontrolled atrial fibrillation. Elam K, et al. **Am J Emerg Med** 1997 Jul;15(4):418-9 (11 ref.)

Atrial fibrillation: prospective role of calcium channel blockers in open heart surgery [letter; comment] Tofukuji M, et al. **Am J Med** 1997 May;102(5):503. Comment on: Am J Med 1996 Oct;101(4):413-21.

Verapamil or diltiazem for acute rate control [letter] Ben Zemenick R. **Ann Emerg Med** 1997 Sep;30(3):354-5

Effectiveness of verapamil-quinidine versus digoxin-quinidine in the emergency department treatment of paroxysmal atrial fibrillation. Innes GD, et al. **Ann Emerg Med** 1997 Jan;29(1):126-34

Emergency management of atrial fibrillation and flutter: intravenous diltiazem versus intravenous digoxin. Schreck DM, et al. **Ann Emerg Med** 1997 Jan;29(1):135-40

Oral propafenone to convert recent-onset atrial fibrillation in patients with and without underlying heart disease. A randomized, controlled trial. Boriani G, et al. **Ann Intern Med** 1997 Apr 15;126(8):621-5

Risk of initiating antiarrhythmic drug therapy for atrial fibrillation in patients admitted to a university hospital. Maisel WH, et al. **Ann Intern Med** 1997 Aug 15; 127(4):281-4

Potential interaction between clarithromycin and warfarin. Recker MW, et al. **Ann Pharmacother** 1997 Sep;31(9):996-8

Anticoagulant therapy in patients aged 80 years or more with atrial fibrillation. More caution is needed [editorial; comment] Ackermann RJ. **Arch Fam Med** 1997 Mar-Apr; 6(2):105-10 (82 ref.). Comment on: Arch Fam Med 1995 Dec;4(12):1017-26.

Status of antithrombotic therapy for patients with atrial fibrillation in university hospitals [see comments] Albers GW, et al. **Arch Intern Med** 1996 Nov 11;156(20):2311-6 . Comment in: Arch Intern Med 1997 Jul 14;157(13):1505.

Warfarin use in Medicare patients with atrial fibrillation [letter; comment] Bratzler DW, et al. **Arch Intern Med** 1997 Jul 28;157(14):1613, 1617. Comment on: Arch Intern Med 1997 Feb 24;157(4):441-5.

National patterns of warfarin use in atrial fibrillation. Stafford RS, et al. **Arch Intern Med** 1996 Dec 9-23;156(22):2537-41

A case of a naval aviator on quinidine for lone atrial fibrillation. Wingard DM, et al. **Aviat Space Environ Med** 1996 Apr;67(4):341-3

Comorbidity increases benefit of anticoagulation in patients with atrial fibrillation [letter; comment] Morgan S. **BMJ** 1997 Mar 29;314(7085):978. Comment on: BMJ 1996 Dec 14;313(7071):1534.

Population based study of use of anticoagulants among patients with atrial fibrillation in the community. Sudlow M, et al. **BMJ** 1997 May 24;314(7093):1529-30

Warfarin therapy in primary care [letter; comment] Eisenberg JN, et al. **Br J Gen Pract** 1996 Feb;46(403):123-4. Comment on: Br J Gen Pract 1995 Mar;45(392):153-8.

Atrial fibrillation in a primary health care district in rural Crete [letter; comment] Lionis C, et al. **Br J Gen Pract** 1996 Oct;46(411):624. Comment on: Br J Gen Pract 1995 Mar;45(392):153-8.

A survey of atrial fibrillation in general practice: the West Birmingham Atrial Fibrillation Project. Lip GY, et al. **Br J Gen Pract** 1997 May;47(418):285-9

Warfarin anticoagulation in primary care: a regional survey of present practice and clinicians' views. Rodgers H, et al. **Br J Gen Pract** 1997 May;47(418):309-10

Anticoagulation trials. Grahame-Clarke C, et al. **Br J Hosp Med** 1996 Jun 19-Jul 9;56(1):25-8 (25 ref.)

Pharmacologic control of heart rate in atrial fibrillation. Falk RH. **Cardiol Clin** 1996 Nov;14(4):521-36 (71 ref.)

Antiarrhythmic drug therapy in the treatment of atrial fibrillation. Jung F, et al. **Cardiol Clin** 1996 Nov; 14(4):507-20 (101 ref.)

Intravenous propafenone: efficacy and safety in the conversion to sinus rhythm of recent onset atrial fibrillation--a single-blind placebo-controlled study. Bellandi F, et al. **Cardiovasc Drugs Ther** 1996 May; 10(2):153-7

Nonsustained polymorphous ventricular tachycardia during amiodarone therapy for atrial fibrillation complicating cardiomyopathy. Management with intravenous magnesium sulfate. Winters SL, et al. **Chest** 1997 May; 111(5):1454-7 (6 ref.)

Effect of verapamil and procainamide on atrial fibrillation-induced electrical remodeling in humans. Daoud EG, et al. **Circulation** 1997 Sep 2;96(5):1542-50

Activation of the hemostatic mechanism after pharmacological cardioversion of acute nonvalvular atrial fibrillation. Oltrona L, et al. **Circulation** 1997 Apr 15; 95(8):2003-6

Ibutilide and the treatment of atrial arrhythmias. A new drug--almost unheralded--is now available to US physicians [editorial; comment] Roden DM. **Circulation** 1996 Oct 1;94(7):1499-502. Comment on: Circulation 1996 Oct 1;94(7):1613-21.

Efficacy and safety of repeated intravenous doses of ibutilide for rapid conversion of atrial flutter or fibrillation. Ibutilide Repeat Dose Study Investigators [see comments] Stambler BS, et al. **Circulation** 1996 Oct 1;94(7):1613-21. Comment in: Circulation 1996 Oct 1;94(7):1499-502.

Atrial fibrillation/flutter: rapid conversion to sinus rhythm with ibutilide [editorial] Conti CR. **Clin Cardiol** 1997 Sep; 20(9):745-6

Atrial fibrillation in acute myocardial infarction: a prospective study based on data from a consecutive series of patients admitted to the coronary unit [letter; comment] Lemberg L. **Clin Cardiol** 1996 Aug;19(8):605, 619. Comment on: Clin Cardiol 1996 Mar;19(3):180-6.

Clarithromycin-associated digoxin toxicity in the elderly. Brown BA, et al. **Clin Infect Dis** 1997 Jan;24(1):92-3

A new interference in some digoxin assays: anti-murine heterophilic antibodies. Liendo C, et al. **Clin Pharmacol Ther** 1996 Nov;60(5):593-8

Drug treatment of atrial fibrillation: what have we learned? Hohnloser SH, et al. **Curr Opin Cardiol** 1997 Jan; 12(1):24-32 (57 ref.)

When, and when not, to use digoxin in the elderly. Gosselink AT, et al. **Drugs Aging** 1997 Jun;10(6):411-20 (54 ref.)

Is anticoagulation therapy underused in elderly patients with atrial fibrillation? Turazza FM, et al. **Drugs Aging** 1997 Mar;10(3):174-84 (37 ref.)

Pharmacological management of arrhythmias in the elderly. Van Gelder IC, et al. **Drugs Aging** 1997 Aug;11(2):96-110 (65 ref.)

Intravenous digoxin in acute atrial fibrillation. Results of a randomized, placebo-controlled multicentre trial in 239 patients. The Digitalis in Acute Atrial Fibrillation (DAAF) Trial Group. **Eur Heart J** 1997 Apr;18(4):649-54

Should all patients with atrial fibrillation receive warfarin? Evidence from randomized clinical trials. Cleland JG, et al. **Eur Heart J** 1996 May;17(5):674-81 (56 ref.)

Using the right drug. A treatment algorithm for atrial fibrillation. Cobbe SM. **Eur Heart J** 1997 May;18 Suppl C:C33-9 (59 ref.)

SPAF-III results. Cowburn P, et al. **Eur Heart J** 1996 Jul; 17(7):1129

Management of atrial fibrillation in the setting of heart failure. Crijns HJ, et al. **Eur Heart J** 1997 May;18 Suppl C:C45-9 (35 ref.)

Treating the non-electrical risks of atrial fibrillation. Gershlick AH. **Eur Heart J** 1997 May;18 Suppl C:C19-26 (39 ref.)

Conversion of atrial fibrillation to sinus rhythm and rate control by digoxin in comparison to placebo [see comments] Jordaens L, et al. **Eur Heart J** 1997 Apr; 18(4):643-8. Comment in: Eur Heart J 1997 Apr;18(4):546-7.

Follow-up of atrial fibrillation: The initial experience of the Canadian Registry of Atrial Fibrillation. Kerr C, et al. **Eur Heart J** 1996 Jul;17 Suppl C:48-51 (12 ref.)

Intravenous digoxin: still the drug of choice for acute termination of atrial fibrillation? [editorial; comment] Lévy S. **Eur Heart J** 1997 Apr;18(4):546-7. Comment on: Eur Heart J 1997 Apr;18(4):643-8.

Impact of local evidence-based clinical guidelines--a Danish intervention study. Steffensen FH, et al. **Fam Pract** 1997 Jun;14(3):209-15

Myocardial infarction related atrial fibrillation: role of endogenous adenosine. Bertolet BD, et al. **Heart** 1997 Jul; 78(1):88–90

Acute hepatitis complicating parenteral amiodarone does not preclude subsequent oral therapy. James PR, et al. **Heart** 1997 Jun;77(6):583–4

Paroxysmal atrial fibrillation: is anticoagulation justified? [editorial] [see comments] Aboaf AP, et al. **Hosp Pract (Off Ed)** 1996 Dec 15;31(12):11, 15–6, 19. Comment in: Hosp Pract (Off Ed) 1997 Mar 15;32(3):38, 41.

Paroxysmal atrial fibrillation [letter; comment] Cheng TO. Hosp **Pract (Off Ed)** 1997 Mar 15;32(3):38, 41. Comment on: Hosp Pract (Off Ed) 1996 Dec 15;31(12):11, 15–6, 19.

Conversion of recent onset atrial fibrillation to sinus rhythm using a single oral loading dose of propafenone: comparison of two regimens. Botto GL, et al. **Int J Cardiol** 1997 Jan 3;58(1):55–61

Efficacy and safety of dofetilide, a new class III antiarrhythmic agent, in acute termination of atrial fibrillation or flutter after coronary artery bypass surgery. Dofetilide Post–CABG Study Group. Frost L, et al. **Int J Cardiol** 1997 Jan 31;58(2):135–40

Akinesia and amiodarone therapy [letter] Malaterre HR, et al. **Int J Cardiol** 1997 Mar;59(1):107–8

The incidence of asymptomatic paroxysmal atrial fibrillation in patients treated with propranolol or propafenone. Wolk R, et al. **Int J Cardiol** 1996 Jun;54(3):207–11

Intravenous dofetilide, a class III antiarrhythmic agent, for the termination of sustained atrial fibrillation or flutter. Intravenous Dofetilide Investigators [see comments] Falk RH, et al. **J Am Coll Cardiol** 1997 Feb;29(2):385–90. Comment in: J Am Coll Cardiol 1997 Feb;29(2):391–3.

Intravenous amiodarone in treatment of recent–onset atrial fibrillation [letter; comment] Lip GY. **J Am Coll Cardiol** 1996 Oct;28(4):1080–2. Comment on: J Am Coll Cardiol 1996 Apr;27(5):1079–82.

The efficacy and safety of intravenous propafenone versus intravenous amiodarone in the conversion of atrial fibrillation or flutter after cardiac surgery. Larbuisson R, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):229–34

Amiodarone instilled into the canine pericardial sac migrates transmurally to produce electrophysiologic effects and suppress atrial fibrillation. Ayers GM, et al. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):713–21

Insights into mechanisms of antiarrhythmic drug action from experimental models of atrial fibrillation. Nattel S, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):469–80 (53 ref.)

Pharmacologic management of atrial fibrillation. Riley RD, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):818–29 (95 ref.)

Clinical and electrophysiologic effects of dofetilide in patients with supraventricular tachyarrhythmias. Kobayashi Y, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):367–73

Failure to prescribe warfarin to patients with nonrheumatic atrial fibrillation [see comments] Antani MR, et al. **J Gen Intern Med** 1996 Dec;11(12):713–20. Comment in: J Gen Intern Med 1996 Dec;11(12):768–70.

Why isn't warfarin prescribed to patients with nonrheumatic atrial fibrillation? [see comments] Beyth RJ, et al. **J Gen Intern Med** 1996 Dec;11(12):721–8. Comment in: J Gen Intern Med 1996 Dec;11(12):768–70.

Should we just let the anticoagulation service do it? The conundrum of anticoagulation for atrial fibrillation [editorial; comment] [see comments] Matchar DB, et al. **J Gen Intern Med** 1996 Dec;11(12):768–70. Comment on: J Gen Intern Med 1996 Dec;11(12):713–20. Comment on: J Gen Intern Med 1996 Dec;11(12):721–8. Comment in: J Gen Intern Med 1997 Apr;12(4):258–9.

Comparisons of oral propafenone and quinidine as an initial treatment option in patients with symptomatic paroxysmal atrial fibrillation: a double–blind, randomized trial. Lee SH, et al. **J Intern Med** 1996 Mar;239(3):253–60

Anticoagulation for nonrheumatic atrial fibrillation [letter; comment] Hart RG. **N Engl J Med** 1997 Feb 6; 336(6):441–2; discussion 442. Comment on: N Engl J Med 1996 Aug 22;335(8):540–6.

Atrial arrhythmias after cardiac surgery [letter] Hobbs WJ, et al. **N Engl J Med** 1997 Sep 18;337(12):860–1; discussion 861

Atrial arrhythmias after cardiothoracic surgery [published erratum appears in N Engl J Med 1997 Jul 17;337(3):209] Ommen SR, et al. **N Engl J Med** 1997 May 15; 336(20):1429–34 (58 ref.)

Atrial arrhythmias after cardiac surgery [letter] Walker WE. **N Engl J Med** 1997 Sep 18;337(12):861

Antithrombotic treatment in chronic non–rheumatic atrial fibrillation. ten Bokkel Huinink D, et al. **Neth J Med** 1997 Aug;51(2):51–6 (25 ref.)

Conversion of recent onset atrial fibrillation with single loading oral dose of propafenone: is in–hospital admission absolutely necessary? Botto GL, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1939–43

Effect of digoxin on the ventricular rate variability during paroxysmal atrial fibrillation. Hnatkova K, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1968–71

Pharmacologic conversion of atrial fibrillation and atrial flutter to normal sinus rhythm: the role of ibutilide [editorial] Katcher MS, et al. **Pharmacotherapy** 1997 Jan–Feb;17(1):177–80

Antiarrhythmic drug therapy--part III: atrial fibrillation. Kayser SR. **Prog Cardiovasc Nurs** 1996 Fall;11(4):35–43,45 (19 ref.)

Ibutilide--a new drug for the rapid termination of atrial fibrillation and atrial flutter [news] Kayser SR. **Prog Cardiovasc Nurs** 1997 Winter;12(1):39–43 (10 ref.)

Antithrombotic therapy for non–rheumatic atrial fibrillation [letter; comment] Lip GY. **QJM** 1996 Oct;89(10):799–800; discussion 801–2. Comment on: QJM 1996 Jun;89(6):409–14.

Anti–thrombotic therapy for non–rheumatic atrial fibrillation [see comments] More RS, et al. **QJM** 1996 Jun;89(6):409–14 (34 ref.). Comment in: QJM 1996 Oct;89(10):799–800; discussion 801–2.

Antithrombotic therapy for non–rheumatic atrial fibrillation [letter] Wheeldon NM. **QJM** 1996 Oct;89(10):800–1; discussion 801–2

Is hospitalisation necessary for recent–onset atrial fibrillation? **S Afr Med J** 1997 Jun;87 Suppl 3:C183

Thromboembolism prophylaxis in chronic atrial fibrillation: practice patterns in community and tertiary–care hospitals [letter; comment] Cheng TO. **Stroke** 1997 Apr;28(4):874. Comment on: Stroke 1997 Jan;28(1):72–6.

Indobufen versus warfarin in the secondary prevention of major vascular events in nonrheumatic atrial fibrillation. SIFA (Studio Italiano Fibrillazione Atriale) Investigators. Morocutti C, et al. **Stroke** 1997 May;28(5):1015–21

Thromboembolism prophylaxis in chronic atrial fibrillation. Practice patterns in community and tertiary–care hospitals [see comments] Munschauer FE, et al. **Stroke** 1997 Jan; 28(1):72–6. Comment in: Stroke 1997 Apr;28(4):874.

Prevention of thromboembolic events in atrial fibrillation. Koefoed BG, et al. **Thromb Haemost** 1997 Jul;78(1):377–81 (40 ref.)

Effect of fixed minidose warfarin, conventional dose warfarin and aspirin on INR and prothrombin fragment 1 + 2 in patients with atrial fibrillation. Koefoed BG, et al. **Thromb Haemost** 1997 May;77(5):845–8

[Antithrombotic therapy of atrial fibrillation] Chalon S, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1533–42 (47 ref.) (Eng. Abstr.) **(Fre)**

[Pharmacological treatment of atrial fibrillation] Leenhardt A, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90 Spec No 1:41–6 (28 ref.) (Eng. Abstr.) **(Fre)**

[Paroxysmal atrial fibrillation: which patients need anti–arrhythmia drugs? (interview by Dr. med. Ulrike Hennemann)] Meinertz T. **Fortschr Med** 1996 Aug 30; 114(24):42–3 **(Ger)**

[Heart frequency control in chronic and paroxysmal atrial fibrillation. Critical evaluation of traditional therapy concepts] Ostermaier R, et al. **Fortschr Med** 1997 Jan 20; 115(1–2):26–8, 30, 32, passim (23 ref.) (Eng. Abstr.) **(Ger)**

[Medicamentous anti–arrhythmia therapy. Is oral adjuvant therapy with electrolytes of value?] Haberl R. **Herz** 1997 Jun;22 Suppl 1:77–80 (20 ref.) (Eng. Abstr.) **(Ger)**

[Torsade de pointes tachycardia during administration of quinidine and verapamil in atrial fibrillation] Karch M, et al. **Herz** 1997 Feb;22(1):51–6 (Eng. Abstr.) **(Ger)**

[Successful treatment of cardiac arrhythmias. Current and future therapeutic possibilities] **Internist (Berl)** 1994 Nov; 35(11 Suppl):1–12 **(Ger)**

[Conversion rate and prevention of recurrence of paroxysmal and sustained atrial fibrillation or atrial flutter with verapamil/quinidine] Trappe HJ, et al. **Med Klin** 1996 Oct 15;91(10):617–25 (Eng. Abstr.) **(Ger)**

[Drug therapy of tachycardic atrial arrhythmias] Wietholt D, et al. **Med Klin** 1997 Apr 15;92(4):197–201 (12 ref.) (Eng. Abstr.) **(Ger)**

[Drug therapy of atrial fibrillation] Gloor HO. **Schweiz Med Wochenschr** 1996 Oct 12;126(41):1739–47 (43 ref.) (Eng. Abstr.) **(Ger)**

[Should every patient with atrial fibrillation get anticoagulants?] Turina J. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):258–60 (Eng. Abstr.) **(Ger)**

[Drug therapy of atrial fibrillation: control of heart rate versus establishing sinus rhythm] Steinbeck G. **Z Kardiol** 1996;85 Suppl 6:69–74 (32 ref.) (Eng. Abstr.) **(Ger)**

[Anticoagulant therapy in patients with atrial fibrillation: the experience of the Centers of Surveillance. Study group of the "Italian Study on Complications of Oral Anticoagulant Therapy" (ISCOAT)] Palareti G. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:18S–20S (Eng. Abstr.) **(Ita)**

[Beta–blocker therapy in tachycardic atrial fibrillation with heart failure (letter)] Misumi K. **J Cardiol** 1996 Nov; 28(5):301–3 **(Jpn)**

[Therapeutic drug monitoring in perioperative period--management of atrial fibrillation in a patient with bradycardia due to relative overdose of digitalis] Murakawa T, et al. **Masui** 1997 Apr;46(4):521–4 (Eng. Abstr.) **(Jpn)**

[Atrial fibrillation--no benign heart arrhythmia (see comments)] Eriksen J. **Tidsskr Nor Laegeforen** 1997 Feb 10;117(4):490–1. Comment in: Tidsskr Nor Laegeforen 1997 Feb 28;117(6):851. Comment in: Tidsskr Nor Laegeforen 1997 Mar 20;117(8):1187–8. **(Nor)**

[The effect of sotalol hydrochloride therapy on atrial signal–averaged ECG in patients with paroxysmal atrial fibrillation] Telichowski A, et al. **Pol Merkuriusz Lek** 1996 Nov;1(5):303–9 (Eng. Abstr.) **(Pol)**

[Propafenone, flecainide, procainamide in the treatment of a fresh attack of atrial fibrillation] Kosmala W, et al. **Wiad Lek** 1994 Nov–Dec;47(21–24):801–7 (Eng. Abstr.) **(Pol)**

[Comparative evaluation of the anti–arrhythmia efficacy of fencarol and dimebon during neurogenic atrial fibrillation] Galenko Iaroshevskii PA, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):81–5 **(Rus)**

[Comparative evaluation of the anti–arrhythmia effect of KLN–93, dicaine, and lidocaine during neurogenic atrial fibrillation] Leonidov NB, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):77–80 **(Rus)**

[Pharmacologic maintenance of sinusal rhythm and/or control of the ventricular response in patients with atrial fibrillation or flutter] López Gil M, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:32–41 (Eng. Abstr.) **(Spa)**

[Comparison between digoxin and atenolol in chronic atrial fibrillation] Lanas F, et al. **Rev Med Chil** 1995 Oct; 123(10):1252–62 (Eng. Abstr.) **(Spa)**

[How risky is chemical conversion of atrial fibrillation (letter)] Sandvik CJ. **Lakartidningen** 1997 Jan 8; 94(1–2):18–9 **(Swe)**

ECONOMICS

Cost–effectiveness of transesophageal echocardiographic–guided cardioversion: a decision analytic model for patients admitted to the hospital with atrial fibrillation. Seto TB, et al. **J Am Coll Cardiol** 1997 Jan;29(1):122–30

EPIDEMIOLOGY

Silent lacunar infarcts in elderly patients with chronic non valvular atrial fibrillation. Zito M, et al. **Aging (Milano)** 1996 Oct;8(5):341–6

Epidemiology and mechanism of atrial fibrillation and atrial flutter. Camm AJ, et al. **Am J Cardiol** 1996 Oct 17; 78(8A):3–11 (90 ref.)

Atrial fibrillation in elderly patients: prevalence and comorbidity in general practice [see comments] Langenberg M, et al. **BMJ** 1996 Dec 14;313(7071):1534. Comment in: BMJ 1997 Mar 29;314(7085):978.

A survey of atrial fibrillation in general practice: the West Birmingham Atrial Fibrillation Project. Lip GY, et al. **Br J Gen Pract** 1997 May;47(418):285–9

Atrial fibrillation and stroke. Mortality and causes of death after the first acute ischemic stroke. Kaarisalo MM, et al. **Stroke** 1997 Feb;28(2):311–5 (27 ref.)

Atrial fibrillation and dementia in a population–based study. The Rotterdam Study. Ott A, et al. **Stroke** 1997 Feb; 28(2):316–21

[Epidemiology and therapy of atrial fibrillation] Capucci A, et al. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:5S–10S (51 ref.) (Eng. Abstr.) **(Ita)**

[Cerebrovascular accidents and atrial fibrillation in the elderly patient] Alcalde Tirado P, et al. **An Med Interna** 1995 Aug;12(8):369–73 (Eng. Abstr.) **(Spa)**

[Epidemiology, risk factors, and pathogeny of atrial fibrillation and atrial flutter] Berjón Reyero J, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:1–7 (Eng. Abstr.) **(Spa)**

[Auricular fibrillation and stroke in patients with sick sinus syndromeusing permanent pacemakers] Sanjuán Máñez R, et al. **Rev Esp Cardiol** 1996 Jul;49(7):492–500 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Acute admissions with atrial fibrillation in a British multiracial hospital population. Zarifis J, et al. **Br J Clin Pract** 1997 Mar;51(2):91–6

ETIOLOGY

Effect of left atrial size on recurrence of atrial fibrillation after electrical cardioversion: atrial dimension versus volume. Volgman AS, et al. **Am J Card Imaging** 1996 Oct; 10(4):261–5

Atrial fibrillation induced by atrioventricular nodal reentrant tachycardia. Brugada J, et al. **Am J Cardiol** 1997 Mar 1; 79(5):681–2

Epidemiology and mechanism of atrial fibrillation and atrial flutter. Camm AJ, et al. **Am J Cardiol** 1996 Oct 17; 78(8A):3–11 (90 ref.)

Comparison of quantitation of left ventricular volume, ejection fraction, and cardiac output in patients with atrial fibrillation by cine magnetic resonance imaging versus invasive measurements. Hundley WG, et al. **Am J Cardiol** 1996 Nov 15;78(10):1119–23

Value of cardiac ultrafast computed tomography for detecting right atrial thrombi in chronic atrial fibrillation. Kitayama H, et al. **Am J Cardiol** 1997 May 1;79(9):1292–5

How useful is thyroid function testing in patients with recent–onset atrial fibrillation? The Canadian Registry of Atrial Fibrillation Investigators [see comments] Krahn AD, et al. **Arch Intern Med** 1996 Oct 28;156(19):2221–4. Comment in: Arch Intern Med 1997 Jun 23;157(12):1385, 1390.

Left atrial appendage thrombus in atrial fibrillation post coronary artery bypass grafting (CABG) [letter] Ward M, et al. **Aust N Z J Med** 1996 Aug;26(4):565–66

Lunar influence on atrial fibrillation? Mikulecky M, et al. **Braz J Med Biol Res** 1996 Aug;29(8):1073–5

Cardiopulmonary complications of esophageal surgery. Amar D. **Chest Surg Clin N Am** 1997 Aug;7(3):449–56 (23 ref.)

Predictors of atrial fibrillation after coronary artery surgery. Current trends and impact on hospital resources. Aranki SF, et al. **Circulation** 1996 Aug 1;94(3):390–7

Predictors of atrial fibrillation after coronary artery surgery [letter] Cheng TO. **Circulation** 1997 Sep 16;96(6):2084–5

Zones of atrial vulnerability. Relationships to basic cycle length. Friedman HS, et al. **Circulation** 1996 Sep 15; 94(6):1456–64

Effects of atrial dilatation on refractory period and vulnerability to atrial fibrillation in the isolated Langendorff-perfused rabbit heart. Ravelli F, et al. **Circulation** 1997 Sep 2;96(5):1686–95

Incidence of induced atrial fibrillation/flutter in complete atrioventricular block. A concept of 'atrial-malfunctioning' atrio-hisian block. Yamashita T, et al. **Circulation** 1997 Feb 4;95(3):650–4

Atrial fibrillation. A tachycardia-induced atrial cardiomyopathy [editorial; comment] Zipes DP. **Circulation** 1997 Feb 4;95(3):562–4. Comment on: Circulation 1997 Feb 4;95(3):572–6.

Atrial fibrillation: a review of mechanism, etiology, and therapy. Mackstaller LL, et al. **Clin Cardiol** 1997 Jul; 20(7):640–50 (58 ref.)

Uncommon etiologies of atrial fibrillation. Raggi P, et al. **Clin Cardiol** 1996 Jun;19(6):513–6

Evaluation of atrial vulnerability with transoesophageal stimulation in patients with atrioventricular junctional reentrant tachycardia. Comparison with patients with ventricular pre-excitation and with normal subjects. D'Este D, et al. **Eur Heart J** 1995 Nov;16(11):1632–6

Why does atrial fibrillation occur? Janse MJ. **Eur Heart J** 1997 May;18 Suppl C:C12–8 (29 ref.)

Surgical stratification of patients with atrial fibrillation secondary to organic cardiac lesions. Kawaguchi AT, et al. **Eur J Cardiothorac Surg** 1996;10(11):983–9; discussion 989–90

Myocardial infarction related atrial fibrillation: role of endogenous adenosine. Bertolet BD, et al. **Heart** 1997 Jul; 78(1):88–90

Risk for atrial fibrillation in patients with hypertrophic cardiomyopathy assessed by signal averaged P wave duration. Cecchi F, et al. **Heart** 1997 Jul;78(1):44–9

Atrial fibrillation and the pituitary-thyroid axis: a re-evaluation [editorial] Forfar JC. **Heart** 1997 Jan; 77(1):3–4

Atrial fibrillation in the setting of acute myocardial infarction: the GUSTO-I experience. Global Utilization of Streptokinase and TPA for Occluded Coronary Arteries. Crenshaw BS, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):406–13

Unequal atrial stretch in dogs increases dispersion of refractoriness conducive to developing atrial fibrillation. Satoh T, et al. **J Cardiovasc Electrophysiol** 1996 Sep; 7(9):833–42

Atrial fibrillation following coronary artery bypass graft surgery [letter; comment] Cheng TO. **JAMA** 1996 Dec 4; 276(21):1719; discussion 1719–20. Comment on: JAMA 1996 Jul 24–31;276(4):300–6.

Atrial fibrillation following coronary artery bypass graft surgery [letter; comment] Khan SS. **JAMA** 1996 Dec 4; 276(21):1719; discussion 1719–20. Comment on: JAMA 1996 Jul 24–31;276(4):300–6.

Atrial fibrillation in patients with permanent VVI pacemakers: risk factors for atrial fibrillation. Cho JG, et al. **Korean J Intern Med** 1997 Jan;12(1):34–8

Transient atrial fibrillation after subcutaneous apomorphine bolus. Stocchi F, et al. **Mov Disord** 1996 Sep;11(5):584–5

The heart and thyroid disease [clinical conference] Ladenson PW. **Mt Sinai J Med** 1996 Mar;63(2):118–25

[An explanation of the mechanism of attacks of atrial fibrillation in individuals without detectable heart disease] Malinovská V, et al. **Vnitr Lek** 1997 Mar;43(3):142–5 (Eng. Abstr.) **(Cze)**

[Cardio-thyrotoxicosis with arrhythmia disclosed by an embolic cerebrovascular accident] Caroff P, et al. **Ann Fr Anesth Reanim** 1996;15(2):196–8 (Eng. Abstr.) **(Fre)**

[Bradycardiac atrial fibrillation after consuming herbal tea] Brustbauer R, et al. **Dtsch Med Wochenschr** 1997 Jul 25; 122(30):930–2 (12 ref.) (Eng. Abstr.) **(Ger)**

["Atrial fibrillation" as the leading symptom--procedure in general practice. Diagnosis-therapy diagram for the family physician] Schnur S. **Fortschr Med** 1997 Jan 20; 115(1–2):39–41 (Eng. Abstr.) **(Ger)**

[Prevention of thromboembolism in atrial fibrillation of non-valvular etiology] Cattaneo M. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:15S–17S (10 ref.) (Eng. Abstr.) **(Ita)**

[Prospectives in catheter ablation: treatment of atrial fibrillation and recurrent post-infarct ventricular tachycardia] Della Bella P, et al. **Cardiologia** 1996 Aug; 41(8):747–50 (28 ref.) **(Ita)**

GENETICS

Is atrial fibrillation sometimes a genetic disease? [editorial; comment] Allessie MA. **N Engl J Med** 1997 Mar 27; 336(13):950–2. Comment on: N Engl J Med 1997 Mar 27;336(13):905–11.

Identification of a genetic locus for familial atrial fibrillation [see comments] Brugada R, et al. **N Engl J Med** 1997 Mar 27;336(13):905–11. Comment in: N Engl J Med 1997 Mar 27;336(13):950–2. Comment in: N Engl J Med 1997 Jul 31;337(5):350.

Familial atrial fibrillation [letter; comment] MacRae CA. **N Engl J Med** 1997 Jul 31;337(5):350. Comment on: N Engl J Med 1997 Mar 27;336(13):905–11.

[Is isolated atrial fibrillation genetically determined? Apropos of a familial history] Poret P, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1197–1203 (Eng. Abstr.) **(Fre)**

[Atrial fibrillation: is the solution in the genes?] Brugada R. **Rev Esp Cardiol** 1997 Jun;50(6):367 **(Spa)**

[Familial auricular fibrillation] Girona J, et al. **Rev Esp Cardiol** 1997 Aug;50(8):548–51 (Eng. Abstr.) **(Spa)**

METABOLISM

Outward K+ current densities and Kv1.5 expression are reduced in chronic human atrial fibrillation. Van Wagoner DR, et al. **Circ Res** 1997 Jun;80(6):772–81

Altered protein binding of quinidine in patients with atrial fibrillation and flutter. McCollam PL, et al. **Pharmacotherapy** 1997 Jul-Aug;17(4):753–9

PATHOLOGY

Histological substrate of atrial biopsies in patients with lone atrial fibrillation. Frustaci A, et al. **Circulation** 1997 Aug 19;96(4):1180–4

PHYSIOPATHOLOGY

Patterns of Doppler-measured blood flow velocity in the normal and fibrillating human left atrial appendage. Fatkin D, et al. **Am Heart J** 1996 Nov;132(5):995–1003

Low-energy intracardiac shocks during atrial fibrillation: effects on cardiac rhythm. Gjorgov N, et al. **Am Heart J** 1997 Jan;133(1):101–7

Effect of an irregular ventricular rhythm on cardiac output. Daoud EG, et al. **Am J Cardiol** 1996 Dec 15;78(12):1433–6

Interval-dependent changes in left ventricular contractile state in lone atrial fibrillation and in atrial fibrillation associated with coronary artery disease. Schneider F, et al. **Am J Cardiol** 1997 Sep 1;80(5):586–90

Ambulatory blood pressure monitoring in patients with single chamber ventricular pacemakers (VVI pacing mode) [letter] Lip GY, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1240–1

Differing sympathetic and vagal effects on atrial fibrillation in dogs: role of refractoriness heterogeneity. Liu L, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H805–16

Autonomic modulation of ventricular rate in atrial fibrillation. Nagayoshi H, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 2):H1643–9

Pharmacologic control of heart rate in atrial fibrillation. Falk RH. **Cardiol Clin** 1996 Nov;14(4):521–36 (71 ref.)

Electrophysiologic aspects of human atrial fibrillation. Lindsay BD, et al. **Cardiol Clin** 1996 Nov;14(4):483–505 (63 ref.)

On the mechanism(s) of atrioventricular nodal transmission in atrial fibrillation. Meijler FL, et al. **Cardiologia** 1997 Apr; 42(4):375–84 (83 ref.)

Interference of mitral valve stenosis with left ventricular diastole and left atrial appendage flow. Lin JM, et al. **Cardiology** 1996 Nov-Dec;87(6):537–44

Chaos in the Hall of Mirrors [comment] Weber KT. **Cardiovasc Res** 1995 Sep;30(3):336. Comment on: Cardiovasc Res 1995 Sep;30(3):337–44.

Oxygen uptake kinetics and cardiopulmonary performance in lone atrial fibrillation and the effects of sotalol. Lok NS, et al. **Chest** 1997 Apr;111(4):934–40

Effect of verapamil and procainamide on atrial fibrillation-induced electrical remodeling in humans. Daoud EG, et al. **Circulation** 1997 Sep 2;96(5):1542–50

Effect of atrial fibrillation on atrial refractoriness in humans. Daoud EG, et al. **Circulation** 1996 Oct 1;94(7):1600–6

Pacing-induced chronic atrial fibrillation impairs sinus node function in dogs. Electrophysiological remodeling. Elvan A, et al. **Circulation** 1996 Dec 1;94(11):2953–60

Electrical remodeling in atrial fibrillation. Time course and mechanisms. Goette A, et al. **Circulation** 1996 Dec 1; 94(11):2968–74

Incomplete reentry and epicardial breakthrough patterns during atrial fibrillation in the sheep heart. Gray RA, et al. **Circulation** 1996 Nov 15;94(10):2649–61

Mechanism of spontaneous termination of functional reentry in isolated canine right atrium. Evidence for the presence of an excitable but nonexcited core. Ikeda T, et al. **Circulation** 1996 Oct 15;94(8):1962–73

Safety of atrial defibrillation shocks synchronized to narrow and wide QRS complexes during atrial pacing protocols simulating atrial fibrillation in dogs. Keelan ET, et al. **Circulation** 1997 Sep 16;96(6):2022–30

Relationship between local atrial fibrillation interval and refractory period in the isolated canine atrium. Kim KB, et al. **Circulation** 1996 Dec 1;94(11):2961–7

Simultaneous multisite mapping studies during induced atrial fibrillation in the sterile pericarditis model. Insights into the mechanism of its maintenance. Kumagai K, et al. **Circulation** 1997 Jan 21;95(2):511–21

Fibrin D-dimer and beta-thromboglobulin as markers of thrombogenesis and platelet activation in atrial fibrillation. Effects of introducing ultra-low-dose warfarin and aspirin [see comments] Lip GY, et al. **Circulation** 1996 Aug 1; 94(3):425–31. Comment in: Circulation 1997 Aug 5;96(3):1053–4; discussion 1055–6. Comment in: Circulation 1997 Aug 5;96(3):1054–6.

Assessment of left ventricular filling pressures by Doppler in the presence of atrial fibrillation. Nagueh SF, et al. **Circulation** 1996 Nov 1;94(9):2138–45

Activation of the hemostatic mechanism after pharmacological cardioversion of acute nonvalvular atrial fibrillation. Oltrona L, et al. **Circulation** 1997 Apr 15; 95(8):2003–6

Site-dependent intra-atrial conduction delay. Relationship to initiation of atrial fibrillation. Papageorgiou P, et al. **Circulation** 1996 Aug 1;94(3):384–9

Heart rate variability in patients with atrial fibrillation is related to vagal tone. van den Berg MP, et al. **Circulation** 1997 Aug 19;96(4):1209–16

Circadian variation of paroxysmal atrial fibrillation. Yamashita T, et al. **Circulation** 1997 Sep 2;96(5):1537–41

Contraction-excitation feedback in human atrial fibrillation. Antoniou A, et al. **Clin Cardiol** 1997 May;20(5):473–6

The effect of atrial fibrillation and the ventricular rate control on exercise capacity. Ostermaier RH, et al. **Clin Cardiol** 1997 Jan;20(1):23–7

Activation of atria in chronic atrial fibrillation is not a random phenomenon in man [editorial; comment] Brembilla-Perrot B. **Eur Heart J** 1997 Feb;18(2):186–7. Comment on: Eur Heart J 1997 Feb;18(2):290–310.

Epicardial right atrial free wall mapping in chronic atrial fibrillation. Documentation of repetitive activation with a focal spread--a hitherto unrecognised phenomenon in man [see comments] Holm M, et al. **Eur Heart J** 1997 Feb; 18(2):290–310. Comment in: Eur Heart J 1997 Feb;18(2):186–7.

Electrocardiographic nature of restored sinus rhythm after Cox maze procedure in patients with chronic atrial fibrillation who also had other cardiac surgery. Kamata J, et al. **Heart** 1997 Jan;77(1):50–5

Effect of phenylephrine infusion on atrial electrophysiological properties. Leitch JW, et al. **Heart** 1997 Aug;78(2):166–70

Reproducibility of the signal averaged P wave: time and frequency domain analysis. Stafford PJ, et al. **Heart** 1997 May;77(5):412–6

Hypertrophic cardiomyopathy: value of atrial programmed electrical stimulation in patients with or without syncope with special reference to the role of atrial arrhythmias. Brembilla-Perrot B, et al. **Int J Cardiol** 1997 Mar; 59(1):47–56

Carotid sinus pressure: a new application of an old maneuver. A preliminary report. Raev D. **Int J Cardiol** 1996 Dec 13;57(3):241–4

Estimating mean pulmonary wedge pressure in patients with chronic atrial fibrillation from transthoracic Doppler indexes of mitral and pulmonary venous flow velocity. Chirillo F, et al. **J Am Coll Cardiol** 1997 Jul;30(1):19–26

Measurement of atrial refractoriness dispersion: is there a better way? [letter; comment] Wang L. **J Am Coll Cardiol** 1997 Jan;29(1):228. Comment on: J Am Coll Cardiol 1996 Jun;27(7):1713–21.

Optimal number of beats for the Doppler measurement of cardiac output in atrial fibrillation. Dubrey SW, et al. **J Am Soc Echocardiogr** 1997 Jan-Feb;10(1):67–71

Paroxysmal atrial fibrillation and stroke (cerebrovascular accidents) in males and females above and below age 65 on days of different geomagnetic activity levels. Stoupel E, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul-Dec; 5(3-4):315–29

Myocardial contractility of the canine left ventricle during unsynchronized dual chamber pacing. Hosoya K, et al. **J Cardiol** 1997 Jun;29(6):337–43

Autonomic influences in atrial tachyarrhythmias. Coumel P. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):999–1007 (22 ref.)

AV nodal function during atrial fibrillation: the role of electrotonic modulation of propagation. Meijler FL, et al. **J Cardiovasc Electrophysiol** 1996 Sep;7(9):843–61 (59 ref.)

Prevalence of retrograde accessory pathway conduction during atrial fibrillation. Ong JJ, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):377–87

The seventh annual Gordon K. Moe Lecture. Atrial fibrillation: from cell t bedside. Zipes DP. **J Cardiovasc Electrophysiol** 1997 Aug;8(8):927–38 (59 ref.)

Effects of premature responses on vulnerability to fibrillation in a computer model. Abildskov JA, et al. **J Electrocardiol** 1996 Jul;29(3):213–21

The role of atrial anatomy in clinical atrial arrhythmias. Lesh MD, et al. **J Electrocardiol** 1996;29 Suppl:101–13 (38 ref.)

Electrophysiologic differences in young patients with atrial fibrillation. Influence of preexcitation. Misra A, et al. **J Electrocardiol** 1996 Jul;29(3):185–8

Spectrotemporal and spectral turbulence analysis of the signal-averaged P wave in paroxysmal atrial fibrillation. Stafford PJ, et al. **J Electrocardiol** 1997 Apr;30(2):79–86

Prediction of outcome of electrical cardioversion by left atrial appendage flow velocities in atrial fibrillation. Tanabe K, et al. **Jpn Circ J** 1997 Jan;61(1):19–24

Pressure-interval relationship characterizes left ventricular irregular beat contractilities and their mean level during atrial fibrillation. Yamaguchi H, et al. **Jpn J Physiol** 1997 Feb;47(1):101–10

Transient atrial fibrillation after subcutaneous apomorphine bolus. Stocchi F, et al. **Mov Disord** 1996 Sep;11(5):584–5

Dissimilar right atrial rhythms: a case report. Bhagwat AR, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1363–4

Atrial fibrillation [letter; comment] de Elizalde G. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):375. Comment on: Pacing Clin Electrophysiol 1996 Jul;19(7):1122-3.

Maintenance of atrial fibrillation in anesthetized and unanesthetized sheep using cholinergic drive. Geddes LA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):165-75

Mode switching anomalies: a patient who remained symptomatic during paroxysmal atrial tachyarrhythmias despite a mode switching pacemaker. Giudici MC, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1883-4

Regional disparities of endocardial atrial activation in paroxysmal atrial fibrillation. Jaïs P, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1998-2003

Comparison of bipolar atrial electrogram amplitude in sinus rhythm, atrial fibrillation, and atrial flutter. Wood MA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):150-6

Automated blood pressure measurement in special situations: patients with chronic atrial fibrillation or chronic aortic regurgitation. Eckert S, et al. **Z Kardiol** 1996;85 Suppl 3:92-8

[Value of the study of latent atrial vulnerability in unexplained ischemic cerebrovascular accident of young subjects] Somody E, et al. **Arch Mal Coeur Vaiss** 1996 Nov; 89(11):1365-73 (Eng. Abstr.) **(Fre)**

[Let's modulate the AV modulation (editorial; comment)] Della Bella P. **Cardiologia** 1995 Dec;40(12):887-8. Comment on: Cardiologia 1995 Dec;40(12):927-40. **(Ita)**

[The electrophysiological bases of aberrant intraventricular conduction during atrial fibrillation] Nave C, et al. **Cardiologia** 1996 Dec;41(12):1193-8 (Eng. Abstr.) **(Ita)**

[Electrophysiologic characteristics of the atrium during chronic atrial fibrillation in man] Pandozi C, et al. **G Ital Cardiol** 1997 Mar;27(3):270-7 (Eng. Abstr.) **(Ita)**

[Assessment of auscultatory blood pressure measurements versus intra-arterial pressure in patients with atrial fibrillation] Ochiai H, et al. **J Cardiol** 1997 Jun;29(6):331-6 (Eng. Abstr.) **(Jpn)**

[Characteristics of atrial activation sequence of atrial fibrillation and flutter in a canine model] Sugimoto T. **Nippon Ika Daigaku Zasshi** 1996 Apr;63(2):140-53 (Eng. Abstr.) **(Jpn)**

[Electrophysiologic mechanisms of atrial fibrillation] Brugada J. **Rev Esp Cardiol** 1996;49 Suppl 2:8-12 (Eng. Abstr.) **(Spa)**

[Atrial fibrillation, carotid stenosis and stroke (editorial)] Martín R. **Rev Neurol** 1996 Jan;24(125):26-7 **(Spa)**

PREVENTION & CONTROL

Effectiveness of digitalis with or without acebutolol in preventing atrial arrhythmias after coronary artery surgery. Kowey PR, et al. **Am J Cardiol** 1997 Apr 15;79(8):1114-7

Pacing strategies to prevent atrial fibrillation. Fahy GJ, et al. **Cardiol Clin** 1996 Nov;14(4):591-6 (44 ref.)

Propafenone versus disopyramide for maintenance of sinus rhythm after electrical cardioversion of chronic atrial fibrillation: a randomized, double-blind study. PRODIS Study Group. Crijns HJ, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):145-52

Coronary sinus pacing prevents induction of atrial fibrillation. Papageorgiou P, et al. **Circulation** 1997 Sep 16;96(6):1893-8

Beta-blocker effects on postoperative atrial fibrillation. Ali IM, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1154-7

Management of atrial fibrillation. Coumel P. **Isr J Med Sci** 1996 Oct;32(10):871-2 (0 ref.)

Atrial fibrillation after coronary artery bypass surgery: predictors and the role of MgSO4 replacement. Nurözler F, et al. **J Card Surg** 1996 Nov-Dec;11(6):421-7

Long-term prevention of atrial fibrillation after coronary artery bypass surgery: comparison of quinidine, verapamil, and amiodarone in maintaining sinus rhythm. Yilmaz AT, et al. **J Card Surg** 1996 Jan-Feb;11(1):61-4

Foundation project promotes stroke prevention. **J Miss State Med Assoc** 1997 Jan;38(1):16-7

Effects of posterior pericardiotomy on the incidence of atrial fibrillation and chest drainage after coronary revascularization: a prospective randomized trial. Asimakopoulos G, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):797-9

Fibrillation, chaos and clinical control [news] Lab MJ. **Nat Med** 1997 Apr;3(4):385-6

Atrial arrhythmias during chronic follow-up of surgery for complex congenital heart disease. Kanter RJ, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):502-11 (31 ref.)

Long-term prevention of atrial fibrillation after coronary artery surgery. Yilmaz AT, et al. **Panminerva Med** 1997 Jun;39(2):103-5

The effect of low-dose amiodarone in prevention of paroxysmal atrial fibrillation. Zdrenghea D, et al. **Rom J Intern Med** 1996 Jul-Dec;34(3-4):199-204

Prevention of atrial tachyarrhythmias after non-cardiac thoracic surgery by infusion of magnesium sulfate. Terzi A, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):300-3

[Comparative study of cibenzoline and flecainide by oral route for preventing recurrence of paroxysmal atrial tachyarrhythmias] Maison-Blanche P, et al. **Ann Cardiol Angeiol (Paris)** 1997 Feb;46(2):109-16 (Eng. Abstr.) **(Fre)**

[Comparison of anti-arrhythmic therapy guided by the transesophageal electropharmacologic test and emperic therapy in the prophylaxis of atrial fibrillation recurrence] Fera MS, et al. **G Ital Cardiol** 1997 Feb;27(2):152-63 (Eng. Abstr.) **(Ita)**

[Preventive use of diltiazem to suppress supraventricular tachyarrhythmia in the patients after esophagectomy] Shimada M, et al. **Masui** 1997 May;46(5):658-63 (Eng. Abstr.) **(Jpn)**

[Area reduction effects on atrial fibrillation inducibility] Hosaka H. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun; 45(6):812-20 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Role of atrial ischaemia in development of atrial fibrillation following coronary artery bypass surgery. Kolvekar S, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):70-5

Reversible high rate atrial fibrillation dilated cardiomyopathy. Lazzari JO, et al. **Heart** 1997 May; 77(5):486

SURGERY

Clinical usefulness of slow pathway ablation in patients with both paroxysmal atrioventricular nodal reentrant tachycardia and atrial fibrillation. Delise P, et al. **Am J Cardiol** 1997 May 15;79(10):1421-3

Influence of additional partition on the recovery of atrial function after atrial compartment operation for atrial fibrillation. Lin JM, et al. **Am J Cardiol** 1997 Feb 15; 79(4):497-9

Effect of the maze procedure for atrial fibrillation on atrial and brain natriuretic peptide. Nakamura M, et al. **Am J Cardiol** 1997 Apr 1;79(7):966-70

Impact on ventricular function and quality of life of transcatheter ablation of the atrioventricular junction in chronic atrial fibrillation with a normal ventricular response. Natale A, et al. **Am J Cardiol** 1996 Dec 15; 78(12):1431-3

An 8 1/2-year clinical experience with surgery for atrial fibrillation. Cox JL, et al. **Ann Surg** 1996 Sep;224(3):267-73; discussion 273-5

Predictors of sinus rhythm restoration after Cox maze procedure concomitant with other cardiac operations. Kamata J, et al. **Ann Thorac Surg** 1997 Aug;64(2):394-8

Right atrial separation for chronic atrial fibrillation with atrial septal defects. Sueda T, et al. **Ann Thorac Surg** 1997 Aug; 64(2):541-2

Efficacy of a simple left atrial procedure for chronic atrial fibrillation in mitral valve operations. Sueda T, et al. **Ann Thorac Surg** 1997 Apr;63(4):1070-5

Simple left atrial procedure for chronic atrial fibrillation associated with mitral valve disease. Sueda T, et al. **Ann Thorac Surg** 1996 Dec;62(6):1796-800

The surgical management of atrial fibrillation. Cox JL, et al. **Annu Rev Med** 1997;48:511-23 (37 ref.)

Hemodynamic effects of cardiomyoplasty in an experimental model of acute heart failure and atrial fibrillation. Cabrera Fischer EI, et al. **Artif Organs** 1996 Nov;20(11):1215-9

Atrioventricular junctional ablation and modification for atrial fibrillation. Homoud M, et al. **Cardiol Clin** 1996 Nov; 14(4):555-67 (50 ref.)

Primary ablation of atrial flutter and atrial fibrillation. Miller JM, et al. **Cardiol Clin** 1996 Nov;14(4):569-90 (81 ref.)

Operative risks of the maze procedure associated with mitral valve surgery. Melo JQ, et al. **Cardiovasc Surg** 1997 Feb; 5(1):112-6

Radiofrequency ablation to cure atrial fibrillation: mechanisms and strategies. Guo C, et al. **Chin Med J (Engl)** 1996 Aug;109(8):648-53 (39 ref.)

Radiofrequency catheter ablation of the atria eliminates pacing-induced sustained atrial fibrillation and reduces connexin 43 in dogs. Elvan A, et al. **Circulation** 1997 Sep 2;96(5):1675-85

A focal source of atrial fibrillation treated by discrete radiofrequency ablation [see comments] Jaïs P, et al. **Circulation** 1997 Feb 4;95(3):572-6. Comment in: Circulation 1997 Feb 4;95(3):562-4.

Factors affecting rhythm after the maze procedure for atrial fibrillation. Kawaguchi AT, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II139-42

Cost comparison of radiofrequency modification and ablation of the atrioventricular junction in patients with chronic atrial fibrillation. Knight BP, et al. **Circulation** 1997 Sep 2;96(5):1532-6

Role of catheter ablation for atrial fibrillation. Haïssaguerre M, et al. **Curr Opin Cardiol** 1997 Jan;12(1):18-23 (32 ref.)

Restoration of atrial function after the maze procedure [editorial; comment] Darpö B, et al. **Eur Heart J** 1997 Mar; 18(3):360-1. Comment on: Eur Heart J 1997 Mar;18(3):496-502.

Serial evaluation of atrial function by Doppler echocardiography after the maze procedure for chronic atrial fibrillation [see comments] Yashima N, et al. **Eur Heart J** 1997 Mar;18(3):496-502. Comment in: Eur Heart J 1997 Mar;18(3):360-1.

Inhibition of atrial fibrillation by pulmonary vein isolation and auricular resection--experimental study in a sheep model. Fieguth HG, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):714-21

Surgical stratification of patients with atrial fibrillation secondary to organic cardiac lesions. Kawaguchi AT, et al. **Eur J Cardiothorac Surg** 1996;10(11):983-9; discussion 989-90

Spontaneous cardioversion and mitral valve repair: a role for surgical cardioversion (Cox-maze)? Large SR, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):76-80

Surgery for atrial fibrillation. Viganò M, et al. **Eur J Cardiothorac Surg** 1996;10(7):490-7

Temporary loss of cardiac autonomic innervation after the maze procedure. Vogt PR, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):75-81

Exercise capacity after His bundle ablation and rate response ventricular pacing for drug refractory chronic atrial fibrillation. Buys EM, et al. **Heart** 1997 Mar;77(3):238-41

Mitral valve replacement for pacing-induced severe mitral regurgitation after radiofrequency ablation of the atrioventricular junction [letter] Le Tourneau T, et al. **Heart** 1996 Nov;76(5):457

Radiofrequency catheter ablation of accessory atrioventricular pathways: primary failure and recurrence of conduction. Xie B, et al. **Heart** 1997 Apr;77(4):363-8

Atrial dissection for atrial fibrillation: when, how much and where? [editorial; comment] Doevendans PA, et al. **J Am Coll Cardiol** 1996 Oct;28(4):991-3. Comment on: J Am Coll Cardiol 1996 Oct;28(4):985-90.

Risks and benefits of combined maze procedure for atrial fibrillation associated with organic heart disease [see comments] Kawaguchi AT, et al. **J Am Coll Cardiol** 1996 Oct;28(4):985-90. Comment in: J Am Coll Cardiol 1996 Oct;28(4):991-3.

Long-term follow-up after radiofrequency modification of the atrioventricular node in patients with atrial fibrillation. Morady F, et al. **J Am Coll Cardiol** 1997 Jan;29(1):113-21

Right and left atrial radiofrequency catheter therapy of paroxysmal atrial fibrillation. Haïssaguerre M, et al. **J Cardiovasc Electrophysiol** 1996 Dec;7(12):1132-44

Endoscopy-assisted radiofrequency ablation around the coronary sinus ostium in dogs: its effects on atrioventricular nodal properties and ventricular response during atrial fibrillation. Tanaka K, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1063-73

Can the maze procedure be combined safely with mitral valve repair? Izumoto H, et al. **J Heart Valve Dis** 1997 Mar; 6(2):166-70

Rationale of the Cox maze procedure for atrial fibrillation during redo mitral valve operations. Kobayashi J, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1216-21; discussion 1222

Recovery of atrial function after combined treatment with surgical repair for organic heart disease and maze procedure for atrial fibrillation. Ueshima K, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):214-5

Right atrial separation procedure for eliminating chronic atrial fibrillation associated with atrial septal defect. Sueda T, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1870-3

Selective catheter ablation of the slow atrioventricular nodal pathway for atrial fibrillation. Okreglicki AM, et al. **S Afr Med J** 1997 Jun;87 Suppl 3:C147-8

A modified maze procedure performed only on the left atrium for chronic atrial fibrillation associated with mitral valve disease: report of a case. Sueda T, et al. **Surg Today** 1996; 26(2):135-7

[Modulation of atrioventricular conduction in patients with atrial fibrillation or flutter. Immediate and long-term results (see comments)] Carbucicchio C, et al. **Cardiologia** 1995 Dec;40(12):927-40 (Eng. Abstr.). Comment in: Cardiologia 1995 Dec;40(12):887-8. **(Ita)**

[Let's modulate the AV modulation (editorial; comment)] Della Bella P. **Cardiologia** 1995 Dec;40(12):887-8. Comment on: Cardiologia 1995 Dec;40(12):927-40. **(Ita)**

[Maze operation for chronic atrial fibrillation with valvular heart diseases] Abe T, et al. **Kyobu Geka** 1996 Aug; 49(9):709-13; discusssion 13-15 (Eng. Abstr.) **(Jpn)**

[Left atrial isolation for chronic atrial fibrillation associated with valvular disease and coronary artery disease in an 82-year-old man] Okada K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):191-4 (Eng. Abstr.) **(Jpn)**

[Ablation of the bundle of His in atrial arrhythmia. A solution when the drugs fail] Gjesdal K, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10;116(27):3222-5 (Eng. Abstr.) **(Nor)**

[Catheter ablation of atrial tachyarrhythmias] Moreira D, et al. **Arq Bras Cardiol** 1996 Mar;66 Suppl 1:11-9 (63 ref.) **(Por)**

[Ablation of the bundle of His versus modulation of the atrioventricular conduction system in patients with atrial tachyarrhythmia] Oliveira M, et al. **Rev Port Cardiol** 1997 Mar;16(3):281-5 **(Por)**

[New method for the modulation of the atrioventricular conduction system in the treatment of atrial tachyarrhythmia. Preliminary study] Sousa L, et al. **Rev Port Cardiol** 1997 Mar;16(3):287-91 **(Por)**

[Surgical treatment of atrial fibrillation] Fernández Lozano I, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:64-70 (27 ref.) (Eng. Abstr.) **(Spa)**

[Catheter ablation of atrial flutter and fibrillation] García-Cosío Mir F, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:55-63 (61 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Atrial fibrillation and hospital admission [letter; comment] Hollander JE. **Acad Emerg Med** 1996 Aug;3(8):819-20; discussion 821. Comment on: Acad Emerg Med 1996 Feb;3(2):114-19.

Atrial fibrillation and hospital admission [letter; comment]

Phibbs BP. **Acad Emerg Med** 1996 Aug;3(8):820–1. Comment on: Acad Emerg Med 1996 Feb;3(2):114–19.

An aggressive approach in converting resistant atrial fibrillation. Bleyer FL, et al. **Am Heart J** 1996 Dec; 132(6):1304–6

Low-energy intracardiac shocks during atrial fibrillation: effects on cardiac rhythm. Gjorgov N, et al. **Am Heart J** 1997 Jan;133(1):101–7

Atrial fibrillation follow-up investigation of rhythm management — the AFFIRM study design. The Planning and Steering Committees of the AFFIRM study for the NHLBI AFFIRM investigators. **Am J Cardiol** 1997 May 1;79(9):1198–202

Effect of electrode position on outcome of low-energy intracardiac cardioversion of atrial fibrillation. Alt E, et al. **Am J Cardiol** 1997 Mar 1;79(5):621–5

Should physicians participate in affirming the best approach to atrial fibrillation management? [editorial] Brodsky MA, et al. **Am J Cardiol** 1996 Nov 15;78(10):1152–3

Cardioversion of atrial fibrillation in the elderly. ALKK-Study Group. Arbeitsgemeinschaft Leitender Kardiologischer Krankenhausaerzte. Carlsson J, et al. **Am J Cardiol** 1996 Dec 15;78(12):1380–4

Active compression cardioversion for refractory atrial fibrillation. Cohen TJ, et al. **Am J Cardiol** 1997 Aug 1; 80(3):354–5

Efficacy of serial electrical cardioversion therapy in patients with chronic atrial fibrillation after valve replacement and implications for surgery to cure atrial fibrillation. Crijns HJ, et al. **Am J Cardiol** 1996 Nov 15;78(10):1140–4

Atrial defibrillation: can modifications in current implantable cardioverter-defibrillators achieve this? Heisel A, et al. **Am J Cardiol** 1996 Sep 12;78(5A):119–27 (73 ref.)

Transthoracic cardioversion of atrial fibrillation and flutter: standard techniques and new advances. Kerber RE. **Am J Cardiol** 1996 Oct 17;78(8A):22–6 (33 ref.)

Failure of single- and multisite high-frequency atrial pacing to terminate atrial fibrillation. Paladino W, et al. **Am J Cardiol** 1997 Jul 15;80(2):226–7

Prospective assessment of the minimum energy needed for external electrical cardioversion of atrial fibrillation. Ricard P, et al. **Am J Cardiol** 1997 Mar 15;79(6):815–6

Evaluation of left atrial appendage function by measurement of changes in flow velocity patterns after electrical cardioversion in patients with isolated atrial fibrillation. Tabata T, et al. **Am J Cardiol** 1997 Mar 1;79(5):615–20

Transesophageal echocardiographic predictors for maintenance of sinus rhythm after electrical cardioversion of atrial fibrillation. Verhorst PM, et al. **Am J Cardiol** 1997 May 15;79(10):1355–9

Atrial fibrillation: an increasingly common and provocative arrhythmia. Futterman LG, et al. **Am J Crit Care** 1996 Sep;5(5):379–87 (33 ref.)

The management of atrial fibrillation [see comments] Gilligan DM, et al. **Am J Med** 1996 Oct;101(4):413–21. Comment in: Am J Med 1997 May;102(5):503.

Transesophageal echocardiography-guided cardioversion: going for broke? [letter] Klein AL, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):652–3

Cardioversion guided by transesophageal echocardiography: the ACUTE Pilot Study. A randomized, controlled trial. Assessment of Cardioversion Using Transesophageal Echocardiography [see comments] Klein AL, et al. **Ann Intern Med** 1997 Feb 1;126(3):200–9. Comment in: Ann Intern Med 1997 Feb 1;126(3):244–6.

Management of atrial fibrillation: simplicity surrounded by controversy [editorial; comment] Prystowsky EN. **Ann Intern Med** 1997 Feb 1;126(3):244–6. Comment on: Ann Intern Med 1997 Feb 1;126(3):200–9.

Risk for clinical thromboembolism associated with conversion to sinus rhythm in patients with atrial fibrillation lasting less than 48 hours. Weigner MJ, et al. **Ann Intern Med** 1997 Apr 15;126(8):615–20

Regional attitudes of generalists, specialists, and subspecialists about management of atrial fibrillation. Brodsky MA, et al. **Arch Intern Med** 1996 Dec 9–23;156(22):2553–62

Hemodynamic changes after cardioversion of chronic atrial fibrillation. Upshaw CB Jr. **Arch Intern Med** 1997 May 26;157(10):1070–6 (62 ref.)

Chronic atrial fibrillation. Success of serial cardioversion therapy and safety of oral anticoagulation. Van Gelder IC, et al. **Arch Intern Med** 1996 Dec 9–23;156(22):2585–92

Atrial defibrillation. New frontiers. Carlson MD, et al. **Cardiol Clin** 1996 Nov;14(4):607–22 (70 ref.)

Therapeutic strategies for atrial fibrillation. The value of decision analysis. Greenberg ML, et al. **Cardiol Clin** 1996 Nov;14(4):623–40 (109 ref.)

DDD(R) pacing with automatic mode switch in patients with paroxysmal atrial fibrillation following AV nodal ablation. Schuchert A, et al. **Cardiology** 1997 Jul-Aug;88(4):323–7

Atrial fibrillation. Problems in Management. Tavel ME. **Chest** 1996 Oct;110(4):1089–91

Internal atrial defibrillation in humans. Improved efficacy of biphasic waveforms and the importance of phase duration. Cooper RA, et al. **Circulation** 1997 Mar 18; 95(6):1487–96

Low-energy cardioversion of spontaneous atrial fibrillation. Immediate and long-term results. Lévy S, et al. **Circulation** 1997 Jul 1;96(1):253–9

Local capture by atrial pacing in spontaneous chronic atrial fibrillation. Pandozi C, et al. **Circulation** 1997 May 20; 95(10):2416–22

Safety of transvenous atrial defibrillation: studies in the canine sterile pericarditis model. Sokoloski MC, et al. **Circulation** 1997 Aug 19;96(4):1343–50

Cardioversion or rate control for atrial fibrillation: balancing risks and benefits. Ellenbogen KA, et al. **Cleve Clin J Med** 1997 Jan;64(1):31–6

Strategies for managing atrial fibrillation. Katcher MS, et al. **Cleve Clin J Med** 1996 Sep;63(5):282–94 (54 ref.)

Long-term management of atrial fibrillation. Gallagher MM, et al. **Clin Cardiol** 1997 Apr;20(4):381–90 (73 ref.)

Atrial fibrillation: a review of mechanism, etiology, and therapy. Mackstaller LL, et al. **Clin Cardiol** 1997 Jul; 20(7):640–50 (58 ref.)

Amiodarone in restoration and maintenance of sinus rhythm in patients with chronic atrial fibrillation after unsuccessful direct-current cardioversion. Opolski G, et al. **Clin Cardiol** 1997 Apr;20(4):337–40

Management of atrial fibrillation. Alpert MA, et al. **Compr Ther** 1996 Aug;22(8):501–8 (5 ref.)

The future role of defibrillators in the management of atrial fibrillation. Ayers GM, et al. **Curr Opin Cardiol** 1997 Jan; 12(1):12–7 (59 ref.)

The treatment of atrial fibrillation: pharmacologic and nonpharmacologic strategies. Viskin S, et al. **Curr Probl Cardiol** 1997 Feb;22(2):37–108 (229 ref.)

Clinical challenge. II. Management of recent onset atrial fibrillation. PAFIT-2 Investigators. Fresco C, et al. **Eur Heart J** 1996 Jul;17 Suppl C:41–7 (38 ref.)

Clinical challenge. I: Control of recurrent symptomatic atrial fibrillation. Reimold SC. **Eur Heart J** 1996 Jul;17 Suppl C:35–40 (23 ref.)

Atrial reservoir and active transport function after cardioversion of chronic atrial fibrillation. Ito Y, et al. **Heart Vessels** 1996;11(1):30–8

Therapeutic options in atrial flutter and fibrillation. Wilber DJ, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):143–4, 149–50, 153–9 passim

Left atrial appendage "stunning" after electrical cardioversion of atrial flutter: an attenuated response compared with atrial fibrillation as the mechanism for lower susceptibility to thromboembolic events. Grimm RA, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):582–9

Clinical variables affecting recovery of left atrial mechanical function after cardioversion from atrial fibrillation. Harjai KJ, et al. **J Am Coll Cardiol** 1997 Aug;30(2):481–6

Multicenter low energy transvenous atrial defibrillation (XAD) trial results in different subsets of atrial fibrillation. Lévy S, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):750–5

Left atrial chamber and appendage function after internal atrial defibrillation: a prospective and serial transesophageal echocardiographic study. Omran H, et al. **J Am Coll Cardiol** 1997 Jan;29(1):131–8

Acute effects of dual-site right atrial pacing in patients with spontaneous and inducible atrial flutter and fibrillation. Prakash A, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1007–14

Changes in intracardiac atrial cardioversion threshold at rest and during exercise. Santini M, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):576–81

Low energy intracardiac cardioversion after failed conventional external cardioversion of atrial fibrillation. Schmitt C, et al. **J Am Coll Cardiol** 1996 Oct;28(4):994–9

Cost-effectiveness of transesophageal echocardiographic-guided cardioversion: a decision analytic model for patients admitted to the hospital with atrial fibrillation. Seto TB, et al. **J Am Coll Cardiol** 1997 Jan;29(1):122–30

Acute conversion of atrial fibrillation and flutter: direct current cardioversion versus intravenously administered pure class III agents [editorial; comment] Singh BN. **J Am Coll Cardiol** 1997 Feb;29(2):391–3. Comment on: J Am Coll Cardiol 1997 Feb;29(2):385–90.

Feasibility of atrial fibrillation detection and use of a preceding synchronization interval as a criterion for shock delivery in humans with atrial fibrillation. Sra JS, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1532–8

D.C. cardioversion and pregnancy. Wadhwa J, et al. **J Assoc Physicians India** 1996 Nov;44(11):836

Is the automatic atrial defibrillator a promising approach? Griffin JC, et al. **J Cardiovasc Electrophysiol** 1996 Dec; 7(12):1217–24 (59 ref.)

Low-energy transvenous cardioversion of atrial fibrillation using a single atrial lead system. Heisel A, et al. **J Cardiovasc Electrophysiol** 1997 Jun;8(6):607–14

Regional entrainment of atrial fibrillation in man. kalman JM, et al. **J Cardiovasc Electrophysiol** 1996 Sep;7(9):867–76

Case study: analysis of dual chamber rate responsive pacing in atrial fibrillation. McCauley KM, et al. **J Cardiovasc Nurs** 1997 Jan;11(2):82–5

Dysrhythmia update. Case study: analysis of dual chamber rate responsive pacing in atrial fibrillation. McCauley KM, et al. **J Cardiovasc Nurs** 1997 Apr;11(3):93–6

Anticoagulation in nonvalvular atrial fibrillation. Borresen T. **J La State Med Soc** 1996 Nov;148(11):479–84

Cardioversion of atrial arrhythmias: audit of anticoagulation management. Mayet J, et al. **J R Coll Physicians Lond** 1997 May-Jun;31(3):313–6

Atrial fibrillation. Narayan SM, et al. **Lancet** 1997 Sep 27; 350(9082):943–50 (43 ref.)

Pain threshold for low energy intracardiac cardioversion of atrial fibrillation with low or no sedation [published erratum appears in Pacing Clin Electrophysiol 1997 Apr;20(4 Pt 1):viii] Ammer R, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 2):230–6

Preimplant atrial defibrillation testing with a temporary catheter in sheep. Elabbady TZ, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1754–8

Failure of automatic mode switching: recognition and management. Ellenbogen KA, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):268–75

High energy transcatheter cardioversion for chronic, poorly tolerated atrial fibrillation. Forgione NF, et al. **Pacing Clin Electrophysiol** 1996 Jul;19(7):1049–52

Optimized standby rate reduces the ventricular rate variability in pacemaker patients with atrial fibrillation. Greenhut SE, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1780–5

Rounded biphasic waveform reduces energy requirements for transvenous catheter cardioversion of atrial fibrillation and flutter. Harbinson MT, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 2):226–9

Distortion of intracardiac electrograms following defibrillator shocks for atrial tachyarrhythmias. Khalighi K, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1682–5

Delayed exercise rate response kinetics due to sensor cross-checking in a dual sensor rate adaptive pacing system: the importance of individual sensor programming. Lau CP, et al. **Pacing Clin Electrophysiol** 1996 Jul; 19(7):1021–5

Hemodynamic effects and clinical determinants of defibrillation threshold for transvenous atrial defibrillation using biatrial biphasic shocks in patients with chronic atrial fibrillation. Lok NS, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):899–908

Reliability of a new algorithm for automatic mode switching from DDDR to DDIR pacing mode in sinus node disease patients with chronotropic incompetence and recurrent paroxysmal atrial fibrillation. Ricci R, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1719–23

Atrial fibrillation and dilated cardiomyopathy: therapeutic strategies when sinus rhythm cannot be maintained. Saxon LA. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):720–5 (58 ref.)

The effect of biphasic waveform tilt in transvenous atrial defibrillation. Sra J, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1613–8

Cardioversion of atrial fibrillation [letter; comment] Jolobe OM. **Postgrad Med J** 1996 Feb;72(844):126. Comment on: Postgrad Med J 1995 Aug;71(838):457–65.

[Precordial and transesophageal echocardiography in the diagnosis and treatment of patients with atrial fibrillation] Kamp O, et al. **Ned Tijdschr Geneeskd** 1996 Nov 16; 140(46):2277–81 (37 ref.) **(Dut)**

[Atrial defibrillation] Levy S. **J Med Liban** 1995;43(3):146–7 (10 ref.) **(Fre)**

[The therapy of atrial fibrillation. Rhythm or rate control?] Carlsson J, et al. **Dtsch Med Wochenschr** 1997 Jan 24; 122(4):97–103 (58 ref.) **(Ger)**

[What is the value of digitalis for maintaining sinus rhythm after cardioversion of atrial fibrillation of various origin?] Haverkamp W, et al. **Internist (Berl)** 1997 Jan;38(1):81–2 **(Ger)**

[Interventional treatment methods in atrial fibrillation] Osswald S. **Schweiz Med Wochenschr** 1996 Oct 12; 126(41):1732–8 (34 ref.) (Eng. Abstr.) **(Ger)**

[Biatrial stimulation in therapy of paroxysmal atrial tachycardia: a case report (see comments)] Heisel A, et al. **Z Kardiol** 1997 Jul;86(7):524–9 (Eng. Abstr.). Comment in: Z Kardiol 1997 Jul;86(7):483–4. **(Ger)**

[Initial clinical experiences with low energy internal cardioversion of chronic atrial fibrillation after unsuccessful external cardioversion] Heisel A, et al. **Z Kardiol** 1996 Dec; 85(12):943–8 (Eng. Abstr.) **(Ger)**

[Intra-atrial defibrillation--limits and possibilities] Jung W, et al. **Z Kardiol** 1996;85 Suppl 6:75–81 (33 ref.) (Eng. Abstr.) **(Ger)**

[Diagnostic value of auto-capture: detection of lead dislocation] Liebold A, et al. **Z Kardiol** 1997 Jul;86(7):521–3 (Eng. Abstr.) **(Ger)**

[Frequency of atrial pacing in patients with intermittent atrial fibrillation and 2nd or 3rd degree atrioventricular block. Thera DR Pacemaker Study Group] Schuchert A, et al. **Z Kardiol** 1997 Feb;86(2):81–4 (Eng. Abstr.) **(Ger)**

[To pace or not to pace. Biatrial stimulation--a therapeutic option in atrial fibrillation? (editorial; comment)] Seipel L. **Z Kardiol** 1997 Jul;86(7):483–4. Comment on: Z Kardiol 1997 Jul;86(7):524–9. **(Ger)**

[Epidemiology and therapy of atrial fibrillation] Capucci A, et al. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:5S–10S (51 ref.) (Eng. Abstr.) **(Ita)**

[Anticoagulation and electrical cardioversion of chronic atrial fibrillation: proposal for an abbreviated protocol] Antonielli E, et al. **G Ital Cardiol** 1997 Aug;27(8):803–10 (Eng. Abstr.) **(Ita)**

[Low energy endocavitary cardioversion in atrial fibrillation: effectiveness, safety, tolerability and future prospects] Santini M, et al. **G Ital Cardiol** 1997 Feb;27(2):191–6 (19 ref.) **(Ita)**

[DDD pacemaker implantation in the patient underwent Maze procedure] Watanabe H, et al. **Kyobu Geka** 1997 Mar; 50(3):235–8 (Eng. Abstr.) **(Jpn)**

[Efficacy of permanent pacing in the management of patients with paroxysmal atrial fibrillation] Mizutani N. **Nippon Rinsho** 1996 Aug;54(8):2144–9 (16 ref.) (Eng. Abstr.) **(Jpn)**

ATRIAL FIBRILLATION

[The use of extracorporeal blood purification for the treatment of cardiac rhythm disorders] Nedostup AV, et al. **Ter Arkh** 1996;68(4):9–11 (Eng. Abstr.) **(Rus)**

[Electric treatment of atrial fibrillation] Almendral J, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:50–4 (Eng. Abstr.) **(Spa)**

[Electrocardiographic diagnosis and acute treatment of atrial fibrillation and flutter episodes] Pastor Fuentes A, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:22–31 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Evaluation of left atrial appendage anatomy and function in recent-onset atrial fibrillation by transesophageal echocardiography. Rubin DN, et al. **Am J Cardiol** 1996 Oct 1;78(7):774–8

Transesophageal echocardiographic predictors for maintenance of sinus rhythm after electrical cardioversion of atrial fibrillation. Verhorst PM, et al. **Am J Cardiol** 1997 May 15;79(10):1355–9

Role of echocardiography in the evaluation and management of atrial fibrillation. Dent JM. **Cardiol Clin** 1996 Nov; 14(4):543–53 (54 ref.)

Assessment of left ventricular filling pressures by Doppler in the presence of atrial fibrillation. Nagueh SF, et al. **Circulation** 1996 Nov 1;94(9):2138–45

Serial evaluation of atrial function by Doppler echocardiography after the maze procedure for chronic atrial fibrillation [see comments] Yashima N, et al. **Eur Heart J** 1997 Mar;18(3):496–502. Comment in: Eur Heart J 1997 Mar;18(3):360–1.

Recovery of atrial systolic function after pharmacological conversion of chronic atrial fibrillation to sinus rhythm: a Doppler echocardiographic study. Jović A, et al. **Heart** 1997 Jan;77(1):46–9

Prevalence and clinical significance of left atrial thrombus in nonrheumatic atrial fibrillation. Tsai LM, et al. **Int J Cardiol** 1997 Jan 31;58(2):163–9

Estimating mean pulmonary wedge pressure in patients with chronic atrial fibrillation from transthoracic Doppler indexes of mitral and pulmonary venous flow velocity. Chirillo F, et al. **J Am Coll Cardiol** 1997 Jul;30(1):19–26

Transesophageal echocardiography in atrial fibrillation: standards for acquisition and interpretation and assessment of interobserver variability. Stroke Prevention in Atrial Fibrillation Investigators Committee on Echocardiography. **J Am Soc Echocardiogr** 1996 Jul–Aug; 9(4):556–66

Quantification of blood echogenicity: evaluation of a semiquantitative method of grading spontaneous echo contrast. Fatkin D, et al. **Ultrasound Med Biol** 1995; 21(9):1191–8

Role of echocardiography in primary care medicine. Controversies in hypertension, atrial fibrillation, stroke, and endocarditis. Amidon TM, et al. **West J Med** 1996 Mar; 164(3):269–75 (61 ref.)

[Precordial and transesophageal echocardiography in the diagnosis and treatment of patients with atrial fibrillation] Kamp O, et al. **Ned Tijdschr Geneeskd** 1996 Nov 16; 140(46):2277–81 (37 ref.) **(Dut)**

[Value of transesophageal echocardiography in the therapeutic management of non-valvular atrial fibrillation] Baubion N. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1291–5 (Eng. Abstr.) **(Fre)**

[Transesophageal echocardiography and risk factors for embolism] Jacopi F, et al. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:11S–14S (32 ref.) (Eng. Abstr.) **(Ita)**

VETERINARY

Atrial fibrillation in a cow with fetal maceration. Rezakhani A, et al. **Can Vet J** 1996 Oct;37(10):625–6

What is your diagnosis? Dunn K. **J Small Anim Pract** 1996 Jul;37(7):339, 50

Relationship between atrial fibrillation and primary hypothyroidism in the dog. Gerritsen RJ, et al. **Vet Q** 1996 Jun;18(2):49–51

ATRIAL FLUTTER

Neonatal atrial flutter: significant early morbidity and excellent long-term prognosis. Casey FA, et al. **Am Heart J** 1997 Mar;133(3):302–6

Oversensing of atrial flutter in the recipient atrium of a heart transplant patient with a permanent atrial pacemaker. Woodard DA, et al. **Clin Cardiol** 1996 Jul;19(7):597–8

Atrial flutter in the human fetus: diagnosis, hemodynamic consequences, and therapy. Soyeur DJ. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):989–98 (33 ref.)

[Paroxysmal atrial fibrillation, paroxysmal atrial flutter, paroxysmal atrial fibrillo-flutter] Kitamura M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):523–5 (18 ref.) **(Jpn)**

[Atrial fibrillation, atrial flutter] Nakata Y. **Ryoikibetsu Shokogun Shirizu** 1996;(12):337–41 **(Jpn)**

[Paroxysmal atrial fibrillation, atrial flutter, and atrial flutter-fibrillation] Sumiyoshi M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):440–3 (7 ref.) **(Jpn)**

CHEMICALLY INDUCED

Unusual atrial pro-arrhythmic effect of flecainide: a contemporary review. De Meester A, et al. **Acta Cardiol** 1996;51(6):529–34

Adenosine-induced atrial arrhythmia: a prospective analysis. Strickberger SA, et al. **Ann Intern Med** 1997 Sep 15; 127(6):417–22

Atrial flutter with 1:1 conduction after administration of the antimalarial drug mefloquine. Fonteyne W, et al. **Clin Cardiol** 1996 Dec;19(12):967–8

Fetal atrial flutter associated with maternal beta-sympathomimetic drug exposure. Baker ER, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):861

Alcohol concentration determines the type of atrial arrhythmia induced in a porcine model of acute alcoholic intoxication. Anadon MJ, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1962–7

CLASSIFICATION

[Classification of regular atrial tachycardia] Davy JM, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90 Spec No 1:33–40 (29 ref.) (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Diastolic mitral regurgitation with atrial flutter [letter] Malcolm I. **Am Heart J** 1996 Dec;132(6):1321–2

Risk of thromboembolism in chronic atrial flutter. Wood KA, et al. **Am J Cardiol** 1997 Apr 15;79(8):1043–7

Tachycardia in a 60-year-old man. Hancock EW. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):15–6

Co-existence of atrial tachycardia and common atrial flutter: electrophysiological characteristics and radiofrequency catheter ablation. Chiou CW, et al. **Int J Cardiol** 1996 Jul 5;55(1):79–85

CONGENITAL

[Congenital arrhythmia, atrial flutter, supraventricular tachycardia, ventricular tachycardia, congenital complete atrioventricular block] Ogawa K. **Ryoikibetsu Shokogun Shirizu** 1996;(12):360–3 (14 ref.) **(Jpn)**

DIAGNOSIS

Cases in electrocardiography. Zimmers T. **Am J Emerg Med** 1997 May;15(3):313–5

Re-evaluation of the role of P-wave duration and morphology as predictors of atrial fibrillation and flutter after coronary artery bypass surgery. Frost L, et al. **Eur Heart J** 1996 Jul;17(7):1065–71

ECG of the month. Three Rs. Atrial flutter. Martinez-Lopez JI. **J La State Med Soc** 1996 Nov;148(11):447–50

[Electrocardiographic diagnosis and acute treatment of atrial fibrillation and flutter episodes] Pastor Fuentes A, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:22–31 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Efficacy and safety of sotalol in patients with refractory atrial fibrillation or flutter. Gallik DM, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):155–60

Acute treatment of atrial fibrillation and flutter. Anderson JL. **Am J Cardiol** 1996 Oct 17;78(8A):17–21 (23 ref.)

Effectiveness of sotalol for atrial flutter in children after surgery for congenital heart disease. Beaufort-Krol GC, et al. **Am J Cardiol** 1997 Jan 1;79(1):92–4

Control of heart rate during transition from intravenous to oral diltiazem in atrial fibrillation or flutter. Blackshear JL, et al. **Am J Cardiol** 1996 Dec 1;78(11):1246–50

Efficacy of ibutilide for termination of atrial fibrillation and flutter. Ellenbogen KA, et al. **Am J Cardiol** 1996 Oct 17; 78(8A):42–5 (18 ref.)

Safety and risk/benefit analysis of ibutilide for acute conversion of atrial fibrillation/flutter. Kowey PR, et al. **Am J Cardiol** 1996 Oct 17;78(8A):46–52 (15 ref.)

Efficacy, safety, and determinants of conversion of atrial fibrillation and flutter with oral amiodarone. Tieleman RG, et al. **Am J Cardiol** 1997 Jan 1;79(1):53–7

Introduction: acute treatment of atrial fibrillation and flutter—ibutilide in perspective. Waldo AL, et al. **Am J Cardiol** 1996 Oct 17;78(8A):1–2

Verapamil or diltiazem for acute rate control [letter] Ben Zemenick R. **Ann Emerg Med** 1997 Sep;30(3):354–5

Emergency management of atrial fibrillation and flutter: intravenous diltiazem versus intravenous digoxin. Schreck DM, et al. **Ann Emerg Med** 1997 Jan;29(1):135–40

Action of adenine derivatives on experimental atrial flutter in the canine heart. Alvarado JL, et al. **Arch Med Res** 1997 Autumn;28(3):329–35

Effects of procainamide on the excitable gap composition in a canine model of atrial flutter. Jalil E, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):1–8

Ibutilide and the treatment of atrial arrhythmias. A new drug—almost unheralded—is now available to US physicians [editorial; comment] Roden DM. **Circulation** 1996 Oct 1;94(7):1499–502. Comment on: Circulation 1996 Oct 1;94(7):1613–21.

Efficacy and safety of repeated intravenous doses of ibutilide for rapid conversion of atrial flutter or fibrillation. Ibutilide Repeat Dose Study Investigators [see comments] Stambler BS, et al. **Circulation** 1996 Oct 1;94(7):1613–21. Comment in: Circulation 1996 Oct 1;94(7):1499–502.

Pharmacological management of arrhythmias in the elderly. Van Gelder IC, et al. **Drugs Aging** 1997 Aug;11(2):96–110 (65 ref.)

Facilitating influence of procainamide on conversion of atrial flutter by rapid atrial pacing. Heisel A, et al. **Eur Heart J** 1997 May;18(5):866–9

Efficacy and safety of dofetilide, a new class III antiarrhythmic agent, in acute termination of atrial fibrillation or flutter after coronary artery bypass surgery. Dofetilide Post-CABG Study Group. Frost L, et al. **Int J Cardiol** 1997 Jan 31;58(2):135–40

Intravenous dofetilide, a class III antiarrhythmic agent, for the termination of sustained atrial fibrillation or flutter. Intravenous Dofetilide Investigators [see comments] Falk RH, et al. **J Am Coll Cardiol** 1997 Feb;29(2):385–90. Comment in: J Am Coll Cardiol 1997 Feb;29(2):391–3.

The efficacy and safety of intravenous propafenone versus intravenous amiodarone in the conversion of atrial fibrillation or flutter after cardiac surgery. Larbuisson R, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):229–34

Antiarrhythmic and electrophysiologic effects of intravenous ibutilide and sotalol in the canine sterile pericarditis model. Buchanan LV, et al. **J Cardiovasc Electrophysiol** 1996 Feb; 7(2):113–9

Pharmacologic therapy of atrial flutter. Campbell RW. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):1008–12 (32 ref.)

Electrophysiologic effects of the new class III antiarrhythmic drug dofetilide compared to the class IA antiarrhythmic drug quinidine in experimental canine atrial flutter: role of dispersion of refractoriness in antiarrhythmic efficacy [see comments] Cha Y, et al. **J Cardiovasc Electrophysiol** 1996 Sep;7(9):809–27. Comment in: J Cardiovasc Electrophysiol 1996 Sep;7(9):828–32.

Dofetilide versus quinidine for atrial flutter: viva la difference!? [editorial; comment] Olshansky B. **J Cardiovasc Electrophysiol** 1996 Sep;7(9):828–32 (18 ref.) . Comment on: J Cardiovasc Electrophysiol 1996 Sep;7(9):809–27.

Electrophysiologic effects of SD-3212, a new class I antiarrhythmic drug, on canine atrial flutter and atrial action-potential characteristics. Fujiki A, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):471–5

Effects of class IA antiarrhythmic drugs on the reentrant circuit in common human atrial flutter. Ohga N, et al. **Jpn Circ J** 1995 Dec;59(12):799–807

Amiodarone as treatment for atrial tachycardias after surgery. Villain E. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2130–2

Pharmacologic conversion of atrial fibrillation and atrial flutter to normal sinus rhythm: the role of ibutilide [editorial] Katcher MS, et al. **Pharmacotherapy** 1997 Jan-Feb;17(1):177–80

Ibutilide—a new drug for the rapid termination of atrial fibrillation and atrial flutter [news] Kayser SR. **Prog Cardiovasc Nurs** 1997 Winter;12(1):39–43 (10 ref.)

[Conversion rate and prevention of recurrence of paroxysmal and sustained atrial fibrillation or atrial flutter with verapamil/quinidine] Trappe HJ, et al. **Med Klin** 1996 Oct 15;91(10):617–25 (Eng. Abstr.) **(Ger)**

[Pharmacologic maintenance of sinusal rhythm and/or control of the ventricular response in patients with atrial fibrillation or flutter] López Gil M, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:32–41 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Epidemiology and mechanism of atrial fibrillation and atrial flutter. Camm AJ, et al. **Am J Cardiol** 1996 Oct 17; 78(8A):3–11 (90 ref.)

Arrhythmia and mortality after the Mustard procedure: a 30-year single-center experience. Gelatt M, et al. **J Am Coll Cardiol** 1997 Jan;29(1):194–201

[Epidemiology, risk factors, and pathogeny of atrial fibrillation and atrial flutter] Berjón Reyero J, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:1–7 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Interatrial septal aneurysms and atrial arrhythmias in infants. Miga DE, et al. **Am Heart J** 1996 Oct;132(4):776–8

Incidence of induced atrial fibrillation/flutter in complete atrioventricular block. A concept of 'atrial-malfunctioning' atrio-hisian block. Yamashita T, et al. **Circulation** 1997 Feb 4;95(3):650–4

Prenatal diagnosis of idiopathic stenosis of the ductus arteriosus associated with fetal atrial flutter. Mielke G, et al. **Fetal Diagn Ther** 1997 Jan-Feb;12(1):46–9

Mechanism and location of atrial flutter in transplanted hearts: observations during transient entrainment from distant sites. Arenal A, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):539–46

Conduction block in the inferior vena caval-tricuspid valve isthmus: association with outcome of radiofrequency ablation of type I atrial flutter. Schwartzman D, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1519–31

Atrial fibrillation/flutter induced by implantable ventricular defibrillator shocks: difference between epicardial and endocardial energy delivery. Katz A, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):35–41

Factors that influence the development of atrial flutter after the Fontan operation. Fishberger SB, et al.

J Thorac Cardiovasc Surg 1997 Jan;113(1):80–6

Left-sided atrial flutter: characterization of a novel complication of pediatric lung transplantation in an acute canine model. Gandhi SK, et al.
J Thorac Cardiovasc Surg 1996 Oct;112(4):992–1001

Atrial flutter: a newly recognized complication of pediatric lung transplantation. Gandhi SK, et al.
J Thorac Cardiovasc Surg 1996 Oct;112(4):984–91

Anatomically based ablation of atrial flutter in an acute canine model of the modified Fontan operation. Rodefeld MD, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):898–907

HISTORY

Atrial flutter: historical background. Mary-Rabine L, et al. **J Cardiovasc Electrophysiol** 1997 Mar;8(3):353–8 (41 ref.)

PATHOLOGY

The upper turnover site in the reentry circuit of common atrial flutter. Tsuchiya T, et al. **Am J Cardiol** 1996 Dec 15;78(12):1439–42

PHYSIOPATHOLOGY

Effects of procainamide on the excitable gap composition in a canine model of atrial flutter. Jalil E, et al.
Can J Physiol Pharmacol 1997 Jan;75(1):1–8

Activation and entrainment mapping defines the tricuspid annulus as the anterior barrier in typical atrial flutter [see comments] Kalman JM, et al. **Circulation** 1996 Aug 1; 94(3):398–406. Comment in: Circulation 1996 Aug 1;94(3):244–6.

Role of the tricuspid annulus and the eustachian valve/ridge on atrial flutter. Relevance to catheter ablation of the septal isthmus and a new technique for rapid identification of ablation success [see comments] Nakagawa H, et al.
Circulation 1996 Aug 1;94(3):407–24. Comment in: Circulation 1996 Aug 1;94(3):244–6.

Site-dependent intra-atrial conduction delay. Relationship to initiation of atrial fibrillation. Papageorgiou P, et al.
Circulation 1996 Aug 1;94(3):384–9

Radiofrequency catheter ablation of atrial flutter. Further insights into the various types of isthmus block: application to ablation during sinus rhythm. Poty H, et al.
Circulation 1996 Dec 15;94(12):3204–13

Elucidating the mechanisms of atrial flutter cycle length variability using power spectral analysis techniques. Stambler BS, et al. **Circulation** 1996 Nov 15;94(10):2515–25

The atrial flutter reentrant circuit. Additional pieces of the puzzle [editorial; comment] Van Hare GF, et al.
Circulation 1996 Aug 1;94(3):244–6. Comment on: Circulation 1996 Aug 1;94(3):398–406. Comment on: Circulation 1996 Aug 1;94(3):407–24.

Mechanism of initiation of atrial flutter in humans: site of unidirectional block and direction of rotation. Olgin JE, et al. **J Am Coll Cardiol** 1997 Feb;29(2):376–84

Electrophysiologic effects of the new class III antiarrhythmic drug dofetilide compared to the class IA antiarrhythmic drug quinidine in experimental canine atrial flutter: role of dispersion of refractoriness in antiarrhythmic efficacy [see comments] Cha Y, et al.
J Cardiovasc Electrophysiol 1996 Sep;7(9):809–27. Comment in: J Cardiovasc Electrophysiol 1996 Sep;7(9):828–32.

Autonomic influences in atrial tachyarrhythmias. Coumel P.
J Cardiovasc Electrophysiol 1996 Oct;7(10):999–1007 (22 ref.)

Electrocardiographic and electrophysiologic characterization of atypical atrial flutter in man: use of activation and entrainment mapping and implications for catheter ablation. Kalman JM, et al. **J Cardiovasc Electrophysiol** 1997 Feb; 8(2):121–44

Conduction properties of the inferior vena cava–tricuspid annular isthmus in patients with typical atrial flutter. Kinder C, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):727–37

Conduction barriers in human atrial flutter: correlation of electrophysiology and anatomy. Olgin JE, et al.
J Cardiovasc Electrophysiol 1996 Nov;7(11):1112–26 (73 ref.)

Effects of azimilide dihydrochloride on circus movement atrial flutter in the canine sterile pericarditis model. Restivo M, et al. **J Cardiovasc Electrophysiol** 1996 Jul;7(7):612–24

Electrocardiographic patterns and results of radiofrequency catheter ablation of clockwise type I atrial flutter. Saoudi N, et al. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):931–42

Electrophysiologic characteristics and radiofrequency catheter ablation in patients with clockwise atrial flutter. Tai CT, et al. **J Cardiovasc Electrophysiol** 1997 Jan; 8(1):24–34

The role of atrial anatomy in clinical atrial arrhythmias. Lesh MD, et al. **J Electrocardiol** 1996;29 Suppl:101–13 (38 ref.)

Effects of verapamil and diltiazem on the ventricular rate during simulated atrial flutter in isolated guinea pig hearts. Stark U, et al. **J Pharmacol Toxicol Methods** 1996 Aug; 35(4):203–9

Splitting of high right atrial potentials in atrial flutter with rapid pacing. Tanoiri T, et al. **Jpn Circ J** 1995 Dec; 59(12):775–85

Essential pathway of reentry in the canine model of atrial flutter. Analysis using radiofrequency ablation. Tani M, et al. **Jpn Heart J** 1997 May;38(3):419–32

Comparison of bipolar atrial electrogram amplitude in sinus rhythm, atrial fibrillation, and atrial flutter. Wood MA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):150–6

[Value of the study of latent atrial vulnerability in unexplained ischemic cerebrovascular accident of young subjects] Somody E, et al. **Arch Mal Coeur Vaiss** 1996 Nov; 89(11):1365–73 (Eng. Abstr.) **(Fre)**

[Different kinds of atrial flutter after transesophageal stimulation: two case reports] Ducceschi V, et al.
Cardiologia 1995 Oct;40(10):779–81 **(Ita)**

[Characteristics of atrial activation sequence of atrial fibrillation and flutter in a canine model] Sugimoto T.
Nippon Ika Daigaku Zasshi 1996 Apr;63(2):140–53 (Eng. Abstr.) **(Jpn)**

[Mechanism and location of typical atrial flutter. Information drawn from experimental models and clinical electrophysiology] Arenal Maíz A, et al.
Rev Esp Cardiol 1996;49 Suppl 2:13–21 (Eng. Abstr.) **(Spa)**

[Transient atrioventricular conduction 1:1 in a patient with common atrial flutter following the administration of adenosine triphosphate] Falces Salvador C, et al.
Rev Esp Cardiol 1996 Oct;49(10):767–9 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Effectiveness of digitalis with or without acebutolol in preventing atrial arrhythmias after coronary artery surgery. Kowey PR, et al. **Am J Cardiol** 1997 Apr 15;79(8):1114–7

Propafenone versus disopyramide for maintenance of sinus rhythm after electrical cardioversion of chronic atrial fibrillation: a randomized, double-blind study. PRODIS Study Group. Crijns HJ, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):145–52

[Comparative study of cibenzoline and flecainide by oral route for preventing recurrence of paroxysmal atrial tachyarrhythmias] Maison-Blanche P, et al.
Ann Cardiol Angeiol (Paris) 1997 Feb;46(2):109–16 (Eng. Abstr.) **(Fre)**

SURGERY

Simultaneous surgical correction of a common atrium and impure flutter. Yamauchi S, et al. **Ann Thorac Surg** 1997 Aug;64(2):548–52

Primary ablation of atrial flutter and atrial fibrillation. Miller JM, et al. **Cardiol Clin** 1996 Nov;14(4):569–90 (81 ref.)

Role of the tricuspid annulus and the eustachian valve/ridge on atrial flutter. Relevance to catheter ablation of the septal isthmus and a new technique for rapid identification of ablation success [see comments] Nakagawa H, et al.
Circulation 1996 Aug 1;94(3):407–24. Comment in: Circulation 1996 Aug 1;94(3):244–6.

Radiofrequency catheter ablation of atrial flutter. Further insights into the various types of isthmus block: application to ablation during sinus rhythm. Poty H, et al.
Circulation 1996 Dec 15;94(12):3204–13

Radiofrequency catheter ablation of atrial tachycardia and atrial flutter. Simons GR, et al. **Coron Artery Dis** 1996 Jan; 7(1):12–9 (48 ref.)

Radiofrequency ablation of an unusual variant of atrial flutter. Nair M, et al. **Indian Heart J** 1997 Mar–Apr;49(2):195–7

Conduction block in the inferior vena caval–tricuspid valve isthmus: association with outcome of radiofrequency ablation of type I atrial flutter. Schwartzman D, et al.
J Am Coll Cardiol 1996 Nov 15;28(6):1519–31

Radiofrequency catheter ablation of common atrial flutter in 200 patients. Fischer B, et al.
J Cardiovasc Electrophysiol 1996 Dec;7(12):1225–33

Radiofrequency catheter ablation of atrial flutter after orthotopic heart transplantation. Li YG, et al.
J Cardiovasc Electrophysiol 1996 Nov;7(11):1086–90

Temperature monitoring in radiofrequency catheter ablation of atrial flutter using the linear ablation technique. Wen ZC, et al. **J Cardiovasc Electrophysiol** 1996 Nov; 7(11):1050–7

Radiofrequency catheter ablation in type I atrial flutter: preliminary experience of 10 cases. Raungratanaamporn O, et al. **J Med Assoc Thai** 1997 Jul;80(7):466–72

Anatomically based ablation of atrial flutter in an acute canine model of the modified Fontan operation. Rodefeld MD, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):898–907

Essential pathway of reentry in the canine model of atrial flutter. Analysis using radiofrequency ablation. Tani M, et al. **Jpn Heart J** 1997 May;38(3):419–32

Nomenclature and characterization of transisthmus conduction after ablation of typical atrial flutter [editorial] Barold SS, et al. **Pacing Clin Electrophysiol** 1997 Jul; 20(7):1751–3

Atrial flutter mapping and ablation II. Radiofrequency ablation of atrial flutter circuits. Cosio FG, et al.
Pacing Clin Electrophysiol 1996 Jun;19(6):965–75 (32 ref.)

Atrial flutter: lessons from surgical interventions (musing on atrial flutter mechanism). Guiraudon GM, et al.
Pacing Clin Electrophysiol 1996 Nov;19(11 Pt 2):1933–8

Radiofrequency ablation of atrial flutter and atrial tachycardias in patients with permanent indwelling catheters. Newby KH, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1612–7

Radiofrequency catheter ablation of atrial flutter that elicits inappropriate implantable cardioverter defibrillator discharge. Schumacher B, et al.
Pacing Clin Electrophysiol 1997 Jan;20(1 Pt 1):125–7

[Radiofrequency ablation of resistant atrial flutter: a new anatomical approach] Ricard P, et al.
Arch Mal Coeur Vaiss 1997 Mar;90(3):379–83 (19 ref.) (Eng. Abstr.) **(Fre)**

[Atrial flutter in young patients after corrective operation of congenital heart defects: therapy by high frequency catheter ablation] Paul T, et al. **Z Kardiol** 1996 Jan; 85(1):59–64 (Eng. Abstr.) **(Ger)**

[Modulation of atrioventricular conduction in patients with atrial fibrillation or flutter. Immediate and long-term results (see comments)] Carbucicchio C, et al. **Cardiologia** 1995 Dec;40(12):927–40 (Eng. Abstr.). Comment in: Cardiologia 1995 Dec;40(12):887–8. **(Ita)**

[Ablation of the bundle of His in atrial arrhythmia. A solution when the drugs fail] Gjesdal K, et al.
Tidsskr Nor Laegeforen 1996 Nov 10;116(27):3222–5 (Eng. Abstr.) **(Nor)**

[Catheter ablation of atrial tachyarrhythmias] Moreira D, et al. **Arq Bras Cardiol** 1996 Mar;66 Suppl 1:11–9 (63 ref.) **(Por)**

[Catheter ablation of the common atrial flutter --preliminary clinical results] Campos J, et al. **Rev Port Cardiol** 1997 Mar;16(3):293–8 **(Por)**

[Catheter ablation of atrial flutter and fibrillation] García-Cosio Mir F, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:55–63 (61 ref.) (Eng. Abstr.) **(Spa)**

[Radiofrequency catheter ablation in patients with common atrial flutter] Viteri M, et al. **Rev Med Chil** 1996 Oct; 124(10):1225–31 (Eng. Abstr.) **(Spa)**

THERAPY

Efficacy of intravenous propafenone in termination of atrial flutter by overdrive transesophageal pacing previously ineffective. D'Este D, et al. **Am J Cardiol** 1997 Feb 15; 79(4):500–2

P-wave morphology during right atrial pacing before and after atrial flutter ablation—a new marker for success. Hamdan MH, et al. **Am J Cardiol** 1997 May 15; 79(10):1417–20

Transthoracic cardioversion of atrial fibrillation and flutter: standard techniques and new advances. Kerber RE.
Am J Cardiol 1996 Oct 17;78(8A):22–6 (33 ref.)

Thromboembolism following cardioversion of "common" atrial flutter. Risk factors and limitations of transesophageal echocardiography. Mehta D, et al. **Chest** 1996 Oct; 110(4):1001–3

Prevalence of thrombus, spontaneous echo contrast, and atrial stunning in patients undergoing cardioversion of atrial flutter. A prospective study using transesophageal echocardiography. Irani WN, et al. **Circulation** 1997 Feb 18;95(4):962–6

Direct conversion of atrial flutter to sinus rhythm with low-output, short-duration transesophageal atrial pacing. Ajisaka H, et al. **Clin Cardiol** 1997 Sep;20(9):762–6

Long-term outcome of electrical cardioversion in patients with chronic atrial flutter. Crijns HJ, et al. **Heart** 1997 Jan; 77(1):56–61

Therapeutic options in atrial flutter and fibrillation. Wilber DJ, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):143–4, 149–50, 153–9 passim

Cerebral thromboembolism after direct current cardioversion for pure atrial flutter. Liaudet L, et al.
Intensive Care Med 1997 Feb;23(2):196–7

Left atrial appendage "stunning" after electrical cardioversion of atrial flutter: an attenuated response compared with atrial fibrillation as the mechanism for lower susceptibility to thromboembolic events. Grimm RA, et al.
J Am Coll Cardiol 1997 Mar 1;29(3):582–9

Acute effects of dual-site right atrial pacing in patients with spontaneous and inducible atrial flutter and fibrillation. Prakash A, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1007–14

Acute conversion of atrial fibrillation and flutter: direct current cardioversion versus intravenously administered pure class III agents [editorial; comment] Singh BN.
J Am Coll Cardiol 1997 Feb;29(2):391–3. Comment on: J Am Coll Cardiol 1997 Feb;29(2):385–90.

Atrial flutter: entrainment characteristics. Waldo AL.
J Cardiovasc Electrophysiol 1997 Mar;8(3):337–52 (40 ref.)

Cardioversion of atrial arrhythmias: audit of anticoagulation management. Mayet J, et al. **J R Coll Physicians Lond** 1997 May-Jun;31(3):313–6

Type II atrial flutter interruption with transesophageal pacing: use of propafenone and possible change of the substrate. Doni F, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1958–61

Failure of automatic mode switching: recognition and management. Ellenbogen KA, et al.
Pacing Clin Electrophysiol 1997 Feb;20(2 Pt 1):268–75

Rounded biphasic waveform reduces energy requirements for transvenous catheter cardioversion of atrial fibrillation and flutter. Harbinson MT, et al.
Pacing Clin Electrophysiol 1997 Jan;20(1 Pt 2):226–9

Combined transesophageal left atrial pacing and antiarrhythmic therapy in the treatment of atrial flutter. Matiouchine GV, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1947–50

[Specific percutaneous radiofrequency ablation of atrial flutter] Schläpfer J, et al. **Schweiz Med Wochenschr** 1996 Sep 21;126(38):1591–6 (Eng. Abstr.) **(Fre)**

[Biatrial stimulation in therapy of paroxysmal atrial tachycardia: a case report (see comments)] Heisel A, et al. **Z Kardiol** 1997 Jul;86(7):524–9 (Eng. Abstr.). Comment in: Z Kardiol 1997 Jul;86(7):483–4. **(Ger)**

ATRIAL FLUTTER

[Different kinds of atrial flutter after transesophageal stimulation: two case reports] Ducceschi V, et al. **Cardiologia** 1995 Oct;40(10):779–81 **(Ita)**

[Electrocardiographic diagnosis and acute treatment of atrial fibrillation and flutter episodes] Pastor Fuentes A, et al. **Rev Esp Cardiol** 1996;49 Suppl 2:22–31 (Eng. Abstr.) **(Spa)**

[A simple and safe method with few complications. Transesophageal stimulation interrupted atrial flutter] Fredriksson B, et al. **Lakartidningen** 1996 Oct 23; 93(43):3800, 3803–4 **(Swe)**

ULTRASONOGRAPHY

Reversal of atrioventricular flow during part of atrial flutter wave [letter] Mittal SR, et al. **Indian Heart J** 1997 May–Jun;49(3):337

Left atrial appendage thrombus in atrial flutter with no associated heart disease. Sasson Z, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):730–2

ATRIAL FUNCTION

Effects of changes in atrioventricular gradient and contractility on left ventricular filling in human diastolic cardiac dysfunction. Lenihan DJ, et al. **Am Heart J** 1996 Dec;132(6):1179–88

Diastolic SR Ca efflux in atrial pacemaker cells and Ca-overloaded myocytes. Bassani RA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H886–92

Atrial systolic pressure, as well as stretch, is a principal stimulus for release of ANF. Christensen G, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H820–6

Reflex vagal control of atrial repolarization. Euler DE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H870–5

Properties of sodium and potassium currents of cultured adult human atrial myocytes. Feng J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1676–86

Differential regulation of voltage-activated potassium currents in cultured human atrial myocytes. Hatem SN, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1609–19

Transmembrane chloride currents in human atrial myocytes. Li GR, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C500–7

Properties of human atrial ICa at physiological temperatures and relevance to action potential. Li GR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H227–35

A model of the action potential and underlying membrane currents in a rabbit atrial cell. Lindblad DS, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1666–96

Relationship of the fourth heart sound to atrial systolic transmitral flow deceleration. McGuire AM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1527–36

Potassium currents in atrial and ventricular myocytes from a rat model of cirrhosis. Ward CA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G537–44

Effect of atrial fibrillation on atrial refractoriness in humans. Daoud EG, et al. **Circulation** 1996 Oct 1;94(7):1600–6

Effect of verapamil and procainamide on atrial fibrillation-induced electrical remodeling in humans. Daoud EG, et al. **Circulation** 1997 Sep 2;96(5):1542–50

Differential effects of changes in local myocardial refractoriness on atrial and ventricular latency. Fananapazir L, et al. **Circulation** 1996 Sep 15;94(6):1364–71

Relationship between local atrial fibrillation interval and refractory period in the isolated canine atrium. Kim KB, et al. **Circulation** 1996 Dec 1;94(11):2961–7

Spatial resolution of atrial pace mapping as determined by unipolar atrial pacing at adjacent sites. Man KC, et al. **Circulation** 1996 Sep 15;94(6):1357–63

Local capture by atrial pacing in spontaneous chronic atrial fibrillation. Pandozi C, et al. **Circulation** 1997 May 20; 95(10):2416–22

Site-dependent intra-atrial conduction delay. Relationship to initiation of atrial fibrillation. Papageorgiou P, et al. **Circulation** 1996 Aug 1;94(3):384–9

Effects of atrial dilatation on refractory period and vulnerability to atrial fibrillation in the isolated Langendorff-perfused rabbit heart. Ravelli F, et al. **Circulation** 1997 Sep 2;96(5):1686–95

Fetal atrioventricular flow-velocity waveforms and their relation to arterial and venous flow-velocity waveforms at 8 to 20 weeks of gestation. van Splunder P, et al. **Circulation** 1996 Sep 15;94(6):1372–8

Modulation of atrial repolarization by site of pacing in the isolated rabbit heart. Wood MA, et al. **Circulation** 1996 Sep 15;94(6):1465–70

Incidence of induced atrial fibrillation/flutter in complete atrioventricular block. A concept of 'atrial-malfunctioning' atrio-hisian block. Yamashita T, et al. **Circulation** 1997 Feb 4;95(3):650–4

Atrial fibrillation. A tachycardia-induced atrial cardiomyopathy [editorial; comment] Zipes DP. **Circulation** 1997 Feb 4;95(3):562–4. Comment on: Circulation 1997 Feb 4;95(3):572–6.

Evaluation of atrial vulnerability with transoesophageal stimulation in patients with atrioventricular junctional reentrant tachycardia. Comparison with patients with ventricular pre-excitation and with normal subjects. D'Este D, et al. **Eur Heart J** 1995 Nov;16(11):1632–6

Spectral analysis of short term R-Tapex interval variability during sinus rhythm and fixed atrial rate. Lombardi F, et al. **Eur Heart J** 1996 May;17(5):769–78

The left atrium in hypertension, an appendage often forgotten. Lip GY. **J Hum Hypertens** 1997 Mar;11(3):145–7 (33 ref.)

Ventricular protection against atrial arrhythmias in DDD pacing based on a statistical approach: clinical results. Gencel L, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1729–33

Long-term survival of chosen atrial-based pacing modalities. Irwin M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1796–8

Exercise induced sympathetic influences do not change interatrial conduction times in VDD and DDD pacing. Ismer B, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1786–90

Regional disparities of endocardial atrial activation in paroxysmal atrial fibrillation. Jaïs P, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1998–2003

Clinical significance of a new P wave lead vector for pacemaker follow-up of atrial functions. Lu RM, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1805–8

Effect of varying atrial sensitivity, AV interval, and detection algorithm on automatic mode switching. Palma EC, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1735–9

Evolution of atrial signals from a single lead VDD pacemaker. AddVent European Multicentre Study Group. Papouchado M, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1772–6

Lack of evidence of areas of slow conduction early after radiofrequency current application at porcine atrial myocardium. Paul T, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):2009–13

Ventricular output failure in a DDD permanent pacemaker associated with increased atrial output. Santucci PA, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):739–42

[Atrial standstill] Hara M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):342–5 (15 ref.) **(Jpn)**

[Intraatrial block] Kawara T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):346–8 (4 ref.) **(Jpn)**

DRUG EFFECTS

Nonspecific inhibition of adenosine-activated K+ current by glibenclamide in guinea pig atrial myocytes. Song Y, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2430–7

Phenylephrine suppresses outward K+ currents in rat atrial myocytes. Van Wagoner DR, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H937–46

Effects of the new class III antiarrhythmic drug dofetilide on the atrial and ventricular intracardiac monophasic action potential in patients with angina pectoris. Sedgwick ML, et al. **Eur Heart J** 1995 Nov;16(11):1641–6

Chronotropic and inotropic effects of terikalant on isolated, blood-perfused atrial and ventricular preparations of dogs. Lakhe M, et al. **Fundam Clin Pharmacol** 1997;11(4):331–8

Effect of phenylephrine infusion on atrial electrophysiological properties. Leitch JW, et al. **Heart** 1997 Aug;78(2):166–70

PHYSIOLOGY

Atrial rhythm after atrioventricular junctional ablation. Mitchell MA, et al. **Am J Cardiol** 1996 Dec 1;78(11):1251–4

Contribution of Na+/Ca2+ exchange to action potential of human atrial myocytes. Bénardeau A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1151–61

Restoration of atrial function after the maze procedure [editorial; comment] Darpö B, et al. **Eur Heart J** 1997 Mar; 18(3):360–1. Comment on: Eur Heart J 1997 Mar;18(3):496–502.

Serial evaluation of atrial function by Doppler echocardiography after the maze procedure for chronic atrial fibrillation [see comments] Yashima N, et al. **Eur Heart J** 1997 Mar;18(3):496–502. Comment in: Eur Heart J 1997 Mar;18(3):360–1.

Effect of high intensity drive train stimulation on dispersion of atrial refractoriness: role of autonomic nervous system. Yu WC, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1000–6

Origin of the sinus impulse. Schuessler RB, et al. **J Cardiovasc Electrophysiol** 1996 Mar;7(3):263–74 (57 ref.)

Hysteresis in atrial refractoriness in the conscious dog: influence of stimulation parameters and control by the autonomic nervous system. Boucher M, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):842–7

ATRIAL FUNCTION, LEFT

Evaluation of the effect of transthoracic cardioversion from ventricular tachycardia to sinus rhythm on left atrial mechanical function. Dodds GA 3rd, et al. **Am J Cardiol** 1996 Dec 15;78(12):1436–9

Contribution of left atrial pressure and dimension to signal-averaged P-wave duration in patients with chronic congestive heart failure. Faggiano P, et al. **Am J Cardiol** 1997 Jan 15;79(2):219–22

Left atrial abnormality in acute myocardial infarction. Mehta A, et al. **Am J Cardiol** 1997 Mar 15;79(6):807–11

Evaluation of left atrial appendage function by measurement of changes in flow velocity patterns after electrical cardioversion in patients with isolated atrial fibrillation. Tabata T, et al. **Am J Cardiol** 1997 Mar 1;79(5):615–20

Left atrial systolic and diastolic function after cessation of pacing in tachycardia-induced heart failure. Hoit BD, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H921–7

Left ventricular diastolic suction with zero left atrial pressure in open-chest dogs. Ingels NB Jr, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1217–24

The clinical case report: a tool for hypothesis generation. Sniderman AD. **Can J Cardiol** 1996 Oct;12(10):1031–6

Determinants of increased regional left atrial coagulation activity in patients with mitral stenosis. Peverill RE, et al. **Circulation** 1996 Aug 1;94(3):331–9

Transesophageal pulsed Doppler echocardiographic evaluation of left atrial systolic performance in hypertrophic cardiomyopathy: combined analysis of transmitral and pulmonary venous flow velocities. Oki T, et al. **Clin Cardiol** 1997 Jan;20(1):47–54

Left atrial appendage function during DDD and VVI pacing. Simantirakis EN, et al. **Heart** 1997 May;77(5):428–31

Correlation of end-diastolic pressure and myocardial elasticity with the transit time of the left atrial pressure wave (A–Ar interval). Brennan EG, et al. **J Am Soc Echocardiogr** 1997 May;10(4):293–9

Left ventricular Doppler filling pattern in dilated cardiomyopathy: relation to hemodynamics and left atrial function. Ito T, et al. **J Am Soc Echocardiogr** 1997 Jun; 10(5):518–25

Relationship between atrial function, left ventricular isovolumic relation time, and early filling in dual chamber-paced patients. Rossi R, et al. **J Am Soc Echocardiogr** 1997 May;10(4):300–9

Influence of left atrial pressure on left atrial appendage flow velocity patterns in patients in sinus rhythm. Tabata T, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):857–64

Prediction of outcome of electrical cardioversion by left atrial appendage flow velocities in atrial fibrillation. Tanabe K, et al. **Jpn Circ J** 1997 Jan;61(1):19–24

Effect of pneumoperitoneum on interatrial pressure gradient during laparoscopic cholecystectomy. Iwase K, et al. **World J Surg** 1996 Feb;20(2):234–7

[Left atrial contractility function in hypertension] Qirko S, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1003–7 (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

Effects of antihypertensive therapy on left atrial function. Dernellis JM, et al. **J Hum Hypertens** 1996 Dec; 10(12):789–94

PHYSIOLOGY

Improved Doppler echocardiographic assessment of the left atrial appendage by peripheral vein injection of sonicated albumin microbubbles. Yao SS, et al. **Am Heart J** 1997 Apr;133(4):400–5

Load dependence of left atrial and left ventricular filling dynamics by transthoracic and transesophageal Doppler echocardiography. Keren G, et al. **Am J Card Imaging** 1996 Apr;10(2):108–16

Left atrial function as a reliable predictor of exercise capacity in patients with recent myocardial infarction. Jikuhara T, et al. **Chest** 1997 Apr;111(4):922–8

Atrial reservoir and active transport function after cardioversion of chronic atrial fibrillation. Ito Y, et al. **Heart Vessels** 1996;11(1):30–8

Clinical variables affecting recovery of left atrial mechanical function after cardioversion from atrial fibrillation. Harjai KJ, et al. **J Am Coll Cardiol** 1997 Aug;30(2):481–6

Left atrial chamber and appendage function after internal atrial defibrillation: a prospective and serial transesophageal echocardiographic study. Omran H, et al. **J Am Coll Cardiol** 1997 Jan;29(1):131–8

The normal pattern of pulmonary venous flow on pulsed Doppler examination of the human fetus. Better DJ, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):281–5

Influence of aging on left atrial appendage flow velocity patterns in normal subjects. Tabata T, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):274–80

The influence of oxidative stress on various inotropic responses in isolated rat left atria. Peters SL, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):390–7

Acute changes in left atrial and left ventricular diameters after physiological pacing. Ishikawa T, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):143–9

ATRIAL FUNCTION, RIGHT

Pulsatile venous Doppler flow in lower limbs: highly indicative of elevated right atrium pressure. Abu-Yousef MM, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):977–80

Reduction of right atrial peak systolic velocity in growth-restricted discordant twins. Forouzan I, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1033–5

Capacitive function of the heart: influence of acute changes in heart volume on mean right atrial pressure. Sheriff DD, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H553–8

Mechanism of spontaneous termination of functional reentry in isolated canine right atrium. Evidence for the presence of an excitable but nonexcited core. Ikeda T, et al. **Circulation** 1996 Oct 15;94(8):1962–73

Echocardiographic estimation of mean right atrial pressure: how to obtain an estimate in all patients? [letter; comment] Lanzarini L. **Circulation** 1997 Jan 21;95(2):537–8. Comment on: Circulation 1996 Mar 15;93(6):1160–9.

Experimental and numerically modeled effects of altered loading conditions on pulmonary venous flow and left atrial pressure in patients with mitral regurgitation. Klein AL, et al. **J Am Soc Echocardiogr** 1997 Jan-Feb;10(1):41-51

Preoptic recess lesions reduce right atrial pressure responses to volume expansion. Bealer SL. **J Auton Nerv Syst** 1996 Sep 12;60(3):175-81

Single lead DDD system: a comparative evaluation of unipolar, bipolar, and overlapping biphasic stimulation and the effects of right atrial floating electrode location on atrial pacing and sensing thresholds. Tse HF, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1758-63

Effect of pneumoperitoneum on interatrial pressure gradient during laparoscopic cholecystectomy. Iwase K, et al. **World J Surg** 1996 Feb;20(2):234-7

[Estimation of the mean right atrial pressure using echocardiography] Veselka J, et al. **Vnitr Lek** 1997 Feb; 43(2):70-3 (Eng. Abstr.) **(Cze)**

[Atrial filling fraction predicts left ventricular systolic function after myocardial infarction: pre-discharge echocardiographic evaluation] Galderisi M, et al. **Cardiologia** 1995 Oct;40(10):763-8 (Eng. Abstr.) **(Ita)**

DRUG EFFECTS

Meandering and unstable reentrant wave fronts induced by acetylcholine in isolated canine right atrium. Ikeda T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H356-70

PHYSIOLOGY

A cellular mechanism contributing to postvagal tachycardia studied in isolated pacemaker cells from cat right atrium. Wang YG, et al. **Circ Res** 1996 Jul;79(1):109-14

Atrial reservoir and active transport function after cardioversion of chronic atrial fibrillation. Ito Y, et al. **Heart Vessels** 1996;11(1):30-8

Dissimilar right atrial rhythms: a case report. Bhagwat AR, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1363-4

ATRIAL NATRIURETIC FACTOR

see related

RECEPTORS, ATRIAL NATRIURETIC FACTOR

The natriuretic-peptide family. Wilkins MR, et al. **Lancet** 1997 May 3;349(9061):1307-10 (55 ref.)

Cardiac hormones: diagnostic and therapeutic potential. Lainchbury JG, et al. **N Z Med J** 1997 Jun 27; 110(1046):219-21 (34 ref.)

Past and current perspectives on the natriuretic peptides. Flynn TG. **Proc Soc Exp Biol Med** 1996 Nov;213(2):98-104 (61 ref.)

The heart as an endocrine organ [editorial] Lee D, et al. **Singapore Med J** 1996 Feb;37(1):7-17 (174 ref.)

ADMINISTRATION & DOSAGE

Renal and hormonal actions of atrial natriuretic peptide during angiotensin II or noradrenaline infusion in man. Eiskjaer H, et al. **Eur J Clin Invest** 1996 Jul;26(7):584-95

ANP enhances bradycardic reflexes in normotensive but not spontaneously hypertensive rats. Thomas CJ, et al. **Hypertension** 1997 May;29(5):1126-32

Differing biological effects of equimolar atrial and brain natriuretic peptide infusions in normal man. Hunt PJ, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3871-6

In vivo vasodilatory action of atrial natriuretic peptides in canine coronary circulation. Liu Q, et al. **Jpn Circ J** 1996 May;60(5):300-10

Central and peripheral administration of atriopeptin is anxiolytic in rats. Ströhle A, et al. **Neuroendocrinology** 1997 Mar;65(3):210-5

[Hemodynamic and renal effects of strong diuretic atrial natriuretic peptide in patients with acute myocardial infarction] Wu H, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):816-8 (Eng. Abstr.) **(Chi)**

[Application of alpha-hANP for the management following open-heart surgery: report of two cases] Mohara J, et al. **Kyobu Geka** 1997 Jun;50(6):466-8 (Eng. Abstr.) **(Jpn)**

[Experience of carperitide (synthetic human-atrial natriuretic peptide) after cardiovascular surgery] Taniyasu N, et al. **Kyobu Geka** 1996 May;49(5):359-63 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Atrial natriuretic peptide and endothelin concentrations in human milk during postpartum lactation. Ken-Dror S, et al. **Acta Paediatr** 1997 Aug;86(8):793-5

Mechanisms of release of atrial natriuretic factor in vivo. Ledsome JR, et al. **Adv Exp Med Biol** 1995;381:175-86

Correlations between ANP concentrations in atria, plasma and cerebral structures and sodium chloride preference in Wistar rats. Glass H, et al. **Braz J Med Biol Res** 1997 Jan; 30(1):65-8

Characterization of the atrial natriuretic peptide system in the oviduct. Kim SH, et al. **Endocrinology** 1997 Jun; 138(6):2410-6

Presence of atriopeptin-like immunoreactivity in human and rat milk. Ježová D, et al. **Gen Physiol Biophys** 1996 Aug; 15(4):333-8

Natriuretic peptide immunoreactivity in nerve structures and Purkinje fibres of human, pig and sheep hearts. Hansson M, et al. **Histochem J** 1997 Apr;29(4):329-36

ANF system in the newborn piglet pulmonary vessels. Perreault T, et al. **J Cardiovasc Pharmacol** 1997 Jun; 29(6):740-6

Immunocytochemical localization of atrial natriuretic factor and autoradiographic distribution of atrial natriuretic factor binding sites in the brain of the African lungfish, Protopterus annectens. Vallarino M, et al. **J Comp Neurol** 1996 Nov 18;375(3):345-62

Atrial natriuretic peptide, bradykinin, and angiotensin II-like immunoreactivity in the harderian gland of the terrapin Pseudemys scripta: response to osmotic stress. Masini MA, et al. **J Exp Zool** 1996 Dec 15;276(6):425-31

The effect of aging on ANP levels in the plasma, heart, and brain of rats. Wu SQ, et al. **J Gerontol A Biol Sci Med Sci** 1997 Sep;52(5):B250-4

Effects of lidocaine on atrial natriuretic peptide concentrations in plasma and urine. Wyeth RP, et al. **Life Sci** 1997;60(7):473-7

Innervation of the pancreas of the one-humped camel (Camelus dromedarius) by neuropeptide-Y, galanin, calcitonin-gene-related-peptide, atrial natriuretic peptide and cholecystokinin. Adeghate E, et al. **Neuropeptides** 1996 Oct;30(5):420-4

[Cardiac natriuretic peptides as markers of left ventricular dysfunction (letter; comment)] Talstad I. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2527. Comment on: Tidsskr Nor Laegeforen 1997 Mar 10;117(7):943-8. **(Nor)**

ANTAGONISTS & INHIBITORS

Central antagonism of atrial natriuretic peptides on behavioral and hormonal responses to angiotensin II: mapping with c-fos. Zhu B, et al. **Brain Res** 1996 Sep 23; 734(1-2):55-60

BIOSYNTHESIS

Effect of three hours of hypoxia on atrial natriuretic factor gene expression in the ovine fetal heart. Johnson DD, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):42-8

Humoral factor(s) produced by pressure overload enhance cardiac hypertrophy and natriuretic peptide expression. Iso T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H113-8

Atrial natriuretic peptide expression in rats with different pulmonary hypertensive responses to hypoxia. Klinger JR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H411-7

Induction of cardiac natriuretic peptide gene expression in rats trained in hypobaric hypoxic conditions. Perhonen M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R344-52

Changes in atrial natriuretic factor (ANF) and Ca+2 ATPase mRNA transcriptional activity are markers of myocardial integrity during continuous warm blood cardioplegia (CWBCP) in rats. Remsey ES, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:419-22

Adrenomedullin stimulates cAMP accumulation and inhibits atrial natriuretic peptide gene expression in cardiomyocytes. Sato A, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):311-4

Expression of atrial natriuretic peptide by third-trimester placental cytotrophoblasts in women. Graham CH, et al. **Biol Reprod** 1996 Apr;54(4):834-40

Early changes in plasma brain and atrial natriuretic peptides in premature infants: correlation with pulmonary arterial pressure. Ikemoto Y, et al. **Early Hum Dev** 1996 Sep 20; 46(1-2):55-62

Characterization of the atrial natriuretic peptide system in the oviduct. Kim SH, et al. **Endocrinology** 1997 Jun; 138(6):2410-6

Synthesis and secretion of natriuretic peptides in the hypertensive TGR(mREN-2)27 transgenic rat. Marttila M, et al. **Hypertension** 1996 Dec;28(6):995-1004

Increased atrial natriuretic peptide mRNA expression in the kidney of diabetic rats. Shin SJ, et al. **Kidney Int** 1997 Apr; 51(4):1100-5

Influence of salt intake on atrial natriuretic peptide gene expression in rats. Wolf K, et al. **Pflugers Arch** 1997 Apr; 433(6):809-16

BLOOD

Atrial natriuretic peptide and N-terminal atrial natriuretic peptide in plasma reflect right ventricular volumes following coronary artery surgery. Honkonen EL, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):685-93

Atrial natriuretic peptide in normotensive and hypertensive heart transplanted patients. Cugini P, et al. **Acta Cardiol** 1996;51(3):252-8

ANP concentrations during interchanging DDD-VVI pacing modes in patients with retrograde ventriculoatrial conduction. Papadopoulos CL, et al. **Acta Cardiol** 1997; 52(1):37-47

Atrial plasma ANP and NH2-terminal proANP during right atrial pressure increase in humans. Arjamaa O, et al. **Acta Physiol Scand** 1996 Aug;157(4):481-5

Increased plasma atrial natriuretic peptide after ingestion of low doses of ethanol in humans. Gianoulakis C, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):162-70

Effect of chronic ethanol consumption on the atrial natriuretic system of spontaneously hypertensive rats. Guillaume P, et al. **Alcohol Clin Exp Res** 1996 Dec; 20(9):1653-61

Plasma levels of brain and atrial natriuretic peptides elevate in proportion to left ventricular end-systolic wall stress in patients with aortic stenosis. Ikeda T, et al. **Am Heart J** 1997 Mar;133(3):307-14

Effect of the maze procedure for atrial fibrillation on atrial and brain natriuretic peptide. Nakamura M, et al. **Am J Cardiol** 1997 Apr 1;79(7):966-70

Left atrial function and atrial natriuretic factor/cyclic guanosine monophosphate changes in DDD and VVI pacing modes. Theodorakis GN, et al. **Am J Cardiol** 1997 Feb 1;79(3):366-70

Endothelin and atrial natriuretic peptide levels following radiocontrast exposure in humans. Clark BA, et al. **Am J Kidney Dis** 1997 Jul;30(1):82-6

Circadian relationships between circulating atrial natriuretic peptides and serum sodium and chloride in healthy humans. Sothern RB, et al. **Am J Nephrol** 1996;16(6):462-70

Increased release of kaliuretic peptide during immersion-induced central hypervolemia in cirrhotic humans. Vesely DL, et al. **Am J Nephrol** 1996;16(2):128-37

Metabolic clearance studies of atrial natriuretic peptide in normal pregnancy [letter; comment] Rizk DE. **Am J Obstet Gynecol** 1997 Mar;176(3):730-1. Comment on: Am J Obstet Gynecol 1996 Aug;175(2):449-54.

Atrial natriuretic peptide in multiple system atrophy. Bevilacqua M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1047-53

BNP: pathophysiological and potential therapeutic roles in acute congestive heart failure. Grantham JA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1077-83

Endogenous plasma atrial natriuretic peptide and the control of salt gland function in the Pekin duck. Gray DA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1080-5

Atrial natriuretic peptide and sodium homeostasis in compensated heart failure. Lohmeier TE, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1353-63

Chronic effects of ANG II antagonist in heart failure: improvement of cGMP generation from ANP. Maeda Y, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2139-45

Natriuretic peptide responses to acute and chronic ventricular pacing in sheep. Rademaker MT, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H594-602

Plasma ANP levels and protein extravasation during graded expansion with equilibrated whole blood. Tucker VL. **Am J Physiol** 1996 Sep;271(3 Pt 2):R601-9

Effects of naturally acquired decompensated mitral valve regurgitation on the renin-angiotensin-aldosterone system and atrial natriuretic peptide concentration in dogs. Häggström J, et al. **Am J Vet Res** 1997 Jan;58(1):77-82

Significance of raised natriuretic peptides after bicaval and standard cardiac transplantation. El Gamel A, et al. **Ann Thorac Surg** 1997 Apr;63(4):1095-100

Contribution of the ventricles and the atrial appendages to the elevation of plasma atrial natriuretic factor (ANF) during pacing-induced heart failure in conscious dogs. Shen W, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):319-28

The effect of the neutral endopeptidase inhibitor drug, candoxatril, on circulating levels of two of the most potent vasoactive peptides. McDowell G, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):329-32

Changes in maternal heart dimensions and plasma atrial natriuretic peptide levels in the early puerperium of normal and pre-eclamptic pregnancies. Pouta AM, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):988-92

Early prediction of pre-eclampsia by measurement of kallikrein and creatinine on a random urine sample [letter; comment] Stratta P, et al. **Br J Obstet Gynaecol** 1997 Jun; 104(6):759-60. Comment on: Br J Obstet Gynaecol 1996 May;103(5):421-6.

Plasma concentration of atrial natriuretic peptide after acute reduction in functioning renal mass in the rat. Valentin JP. **Can J Physiol Pharmacol** 1997 Feb;75(2):153-7

Responses of plasma catecholamines, renin-angiotensin-aldosterone system, and atrial natriuretic peptide to exercise in patients with essential hypertension. Kinugawa T, et al. **Cardiology** 1997 May-Jun;88(3):238-45

Activation of the neuroendocrine response in heart failure: adaptive or maladaptive process? Ferrari R, et al. **Cardiovasc Drugs Ther** 1996 Nov;10 Suppl 2:623-9 (68 ref.)

Cardiopulmonary effects of endothelin-1 in man. Kiely DG, et al. **Cardiovasc Res** 1997 Feb;33(2):378-86

Plasma endothelin and atrial natriuretic peptide in normal and hypertensive pregnancy. Gao S, et al. **Chin Med J (Engl)** 1996 Nov;109(11):823-6

Atrial natriuretic peptide levels after different types of inferior wall myocardial infarction. Assali A, et al. **Clin Cardiol** 1997 Aug;20(8):717-22

Analytical performance and clinical usefulness of a commercially available IRMA kit for measuring atrial natriuretic peptide in patients with heart failure. Clerico A, et al. **Clin Chem** 1996 Oct;42(10):1627-33

Comparison of N-terminal pro-atrial natriuretic peptide and atrial natriuretic peptide in human plasma as measured with commercially available radioimmunoassay kits. Boomsma F, et al. **Clin Chim Acta** 1996 Aug 15;252(1):41-9

Rapid detection of alpha-human atrial natriuretic peptide in plasma by a sensitive immuno-PCR sandwich assay. Numata Y, et al. **Clin Chim Acta** 1997 Mar 18; 259(1-2):169-76

Natriuretic peptides in sheep with pressure overload left ventricular hypertrophy. Charles CJ, et al. **Clin Exp Hypertens** 1996 Nov;18(8):1051-71

Different secretion patterns of adrenomedullin, brain natriuretic peptide, and atrial natriuretic peptide during exercise in hypertensive and normotensive subjects.

Nishikimi T, et al. **Clin Exp Hypertens** 1997 May; 19(4):503–18

Effect of exercise on plasma adrenomedullin and natriuretic peptide levels in myocardial infarction. Morimoto A, et al. **Clin Exp Pharmacol Physiol** 1997 May;24(5):315–20

Effect of progesterone therapy on arginine vasopressin and atrial natriuretic factor in premenstrual syndrome. Watanabe H, et al. **Clin Invest Med** 1997 Aug;20(4):211–23

Relationship between blood pressure and renin, angiotensin II and atrial natriuretic factor after renal transplantation. Hestin D, et al. **Clin Nephrol** 1997 Aug;48(2):98–103

Neutral endopeptidase inhibition: augmented atrial and brain natriuretic peptide, haemodynamic and natriuretic responses in ovine heart failure. Rademaker MT, et al. **Clin Sci (Colch)** 1996 Sep;91(3):283–91

Effect of manidipine chloride on various aspects of endocrine function, including plasma levels of endothelin-1 and human atrial natriuretic peptide, in patients with essential hypertension. Nishikawa T, et al. **Clin Ther** 1996 Jul–Aug; 18(4):680–6

Impaired guanosine 3',5'-cyclic phosphate production in severe pregnancy-induced hypertension with high plasma levels of atrial and brain natriuretic peptides. Itoh H, et al. **Endocr J** 1997 Jun;44(3):389–93

Serum N-terminal proatrial natriuretic factor in children with congenital heart disease. Holmström H, et al. **Eur Heart J** 1996 Nov;17(11):1737–46

Diastolic dysfunction and ANP/BNP levels [editorial; comment] Struthers AD. **Eur Heart J** 1996 Nov; 17(11):1617–8. Comment on: Eur Heart J 1996 Nov;17(11):1694–702.

Plasma ANP and systolic function in myocardial infarction [letter; comment] Trovato GM, et al. **Eur Heart J** 1996 Nov;17(11):1756. Comment on: Eur Heart J 1995 Apr;16(4):485–9.

Diastolic dysfunction and natriuretic peptides in systolic heart failure. Higher ANP and BNP levels are associated with the restrictive filling pattern [see comments] Yu CM, et al. **Eur Heart J** 1996 Nov;17(11):1694–702. Comment in: Eur Heart J 1996 Nov;17(11):1617–8.

Diurnal rhythms of plasma renin activity, atrial natriuretic peptide and arterial pressure during head-down bed rest in humans. Gauquelin G, et al. **Eur J Appl Physiol** 1996; 73(6):536–43

Atrial natriuretic factor secretion: a role for atrial systolic ejection force? Geny B, et al. **Eur J Appl Physiol** 1996; 72(5–6):440–4

Plasma arginine vasopressin, atrial natriuretic peptide and brain natriuretic peptide responses to long-term field training in the heat: effects of fluid ingestion and acclimatization. Mudambo KS, et al. **Eur J Appl Physiol** 1997;75(3):219–25

Responses of atrial natriuretic peptide and brain natriuretic peptide to exercise in patients with chronic heart failure and normal control subjects. Steele IC, et al. **Eur J Clin Invest** 1997 Apr;27(4):270–6

Cocaine increases circulating levels of atrial natriuretic peptide and pro atrial natriuretic peptide N-terminal fragment in conscious rats. Pelkonen M, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):55–62

Plasma levels of atrial natriuretic peptide and endothelin-1 in experimental fat embolism. Rautanen M, et al. **Eur Surg Res** 1997;29(2):124–32

Atrial and ventricular natriuretic peptide concentrations in plasma of freshwater- and seawater-adapted eels. Kaiya H, et al. **Gen Comp Endocrinol** 1996 May;102(2):183–90

Changes in plasma atrial and ventricular natriuretic peptide concentrations after transfer of eels from freshwater to seawater or vice versa. Kaiya H, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):337–45

Effects of adenosine infusion on renal function, plasma ANP and ADH concentrations and central hemodynamics in anesthetized pigs. Elias AN, et al. **Gen Pharmacol** 1997 Mar;28(3):429–33

Responses of catecholamines, renin-angiotensin system, and atrial natriuretic peptide to exercise in untrained men and women. Kinugawa T, et al. **Gen Pharmacol** 1997 Feb; 28(2):225–8

Natriuretic peptides and cyclic guanosine 3',5'-monophosphate in asymptomatic and symptomatic left ventricular dysfunction. Friedl W, et al. **Heart** 1996 Aug;76(2):129–36

Stability of plasma concentrations of N- and C-terminal atrial natriuretic peptides at room temperature [letter; comment] McDowell G, et al. **Heart** 1997 Apr;77(4):392. Comment on: Heart 1996 Apr;75(4):410–3.

Plasma cardiac natriuretic peptide determination as a screening test for the detection of patients with mild left ventricular impairment. Omland T, et al. **Heart** 1996 Sep; 76(3):232–7

Vasopressin and atrial natriuretic hormone response to hypertonic saline during the follicular and luteal phases of the menstrual cycle. Trigoso WF, et al. **Hum Reprod** 1996 Nov;11(11):2392–5

Chronic effect of beta-adrenoceptor blockade on plasma levels of brain natriuretic peptide during exercise in essential hypertension. Tanaka M, et al. **Hypertens Res** 1996 Dec;19(4):239–45

Salt intake and plasma atrial natriuretic peptide and nitric oxide in hypertension. Campese VM, et al. **Hypertension** 1996 Sep;28(3):335–40

Superiority of brain natriuretic peptide as a hormonal marker of ventricular systolic and diastolic dysfunction and ventricular hypertrophy [see comments] Yamamoto K, et al. **Hypertension** 1996 Dec;28(6):988–94. Comment in: Hypertension 1997 Aug;30(2 Pt 1):305–6.

Plasma levels of atrial natriuretic peptide and of other vasoconstricting hormones in patients with chronic heart failure: relationship to exercise capacity. Chati Z, et al. **Int J Cardiol** 1996 Dec 6;57(2):135–42

Plasma atrial natriuretic peptide is elevated in patients with hypertrophic cardiomyopathy. Fahy GJ, et al. **Int J Cardiol** 1996 Jul 26;55(2):149–55

Changes in plasma cardiac natriuretic peptides concentrations during 1 year treatment with angiotensin-converting enzyme inhibitor in elderly hypertensive patients with left ventricular hypertrophy. Kohno M, et al. **Int J Clin Pharmacol Ther** 1997 Jan;35(1):38–42

Effects of extreme lateral posture on hemodynamics and plasma atrial natriuretic peptide levels in critically ill patients. Bein T, et al. **Intensive Care Med** 1996 Jul; 22(7):651–5

Effect of continuous positive airway pressure on mitral regurgitant fraction and atrial natriuretic peptide in patients with heart failure. Tkacova R, et al. **J Am Coll Cardiol** 1997 Sep;30(3):739–45

Erythropoietin-induced hypertension in rat is not mediated by alterations of plasma endothelin, vasopressin, or atrial natriuretic peptide levels. Zhou XJ, et al. **J Am Soc Nephrol** 1997 Jun;8(6):901–5

Plasma N-terminal atrial natriuretic factor: a predictor of survival in patients with congestive heart failure. Dickstein K, et al. **J Card Fail** 1997 Jun;3(2):83–9

Effects of angiotensin II receptor blockade on N-terminal proatrial natriuretic factor plasma levels in chronic heart failure. Klinge R, et al. **J Card Fail** 1997 Jun;3(2):75–81

Enalaprilat decreases plasma endothelin and atrial natriuretic peptide levels and preload in patients with left ventricular dysfunction after cardiac surgery. Tohmo H, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):585–90

Effect of plasma osmolality on pituitary-adrenal responses to corticotropin-releasing hormone and atrial natriuretic peptide changes in central diabetes insipidus. Elias LL, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1243–7

Plasma concentrations of cyclic 3', 5'-guanosine monophosphate in patients with cirrhosis: relationship with atrial natriuretic peptide and haemodynamics. Kirstetter P, et al. **J Gastroenterol Hepatol** 1997 Mar;12(3):233–6

The effects of atenolol and zofenopril on plasma atrial natriuretic peptide are due to their interactions with target organ damage of essential hypertensive patients. Elijovich F, et al. **J Hum Hypertens** 1997 May;11(5):313–9

Associations between atrial natriuretic peptides, echocardiographic findings and mortality in an elderly population sample [see comments] Iivanainen AM, et al. **J Intern Med** 1997 Apr;241(4):261–8. Comment in: J Intern Med 1997 Apr;241(4):257–9.

Cardiac natriuretic peptides as predictors of mortality [editorial; comment] Lainchbury JG, et al. **J Intern Med** 1997 Apr;241(4):257–9 (31 ref.). Comment on: J Intern Med 1997 Apr;241(4):261–8. Comment on: J Intern Med 1997 Apr;241(4):269–75.

Atrial natriuretic peptides predict mortality in the elderly [see comments] Wallén T, et al. **J Intern Med** 1997 Apr; 241(4):269–75. Comment in: J Intern Med 1997 Apr;241(4):257–9.

Natriuretic peptide system and endothelin in aneurysmal subarachnoid hemorrhage. Wijdicks EF, et al. **J Neurosurg** 1997 Aug;87(2):275–80

Comparison of plasma concentrations of arginine vasopressin (AVP) and atrial natriuretic peptide (ANP) in normal and preeclamptic pregnancies. Eguchi K, et al. **J Perinat Med** 1996;24(5):437–43

Atrial natriuretic peptide secretion following subarachnoid hemorrhage in spontaneously hypertensive rats. Jośko J, et al. **J Physiol Pharmacol** 1996 Dec;47(4):641–8

Augmented response in plasma atrial natriuretic peptide to dynamic exercise in patients with congestive heart failure. Kato M, et al. **Jpn Circ J** 1996 Dec;60(12):909–16

Serum angiotensin-converting enzyme and plasma atrial natriuretic peptide levels in hyperthyroid and hypothyroid rabbits. Yeğin E, et al. **Jpn Heart J** 1997 Mar;38(2):273–9

Circadian rhythms of plasma atriopeptin, plasma renin activity and plasma aldosterone in patients with hepatorenal syndrome. Pasqualetti P, et al. **Life Sci** 1997;60(4–5):289–97

Circadian relationships between circulating atrial natriuretic peptides and serum calcium and phosphate in healthy humans. Vesely DL, et al. **Metabolism** 1996 Aug; 45(8):1021–8

Atrial natriuretic peptide, sodium retention, and proteinuria in nephrotic syndrome. Plum J, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1034–42

Assessment of dry weight in haemodialysis patients by the volume markers ANP and cGMP. Wolfram G, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:28–30 (13 ref.)

Effects of the intravenous magnesium administration on aldosterone and atrial natriuretic factor plasma concentrations [letter] Corica F, et al. **Nephron** 1996; 73(4):739–41

Plasma atrial natriuretic peptide, body weight and twenty-four-hour blood pressure monitoring in chronic hemodialysis patients. Ojanen S, et al. **Nephron** 1996; 73(2):174–8

Plasma atrial natriuretic peptide levels in continuous ambulatory peritoneal dialysis patients [letter] Shiota J, et al. **Nephron** 1997;75(3):360–1

Atrial natriuretic peptide levels in fetal blood in relation to inferior vena cava velocity waveforms. Capponi A, et al. **Obstet Gynecol** 1997 Feb;89(2):242–7

An increase of the plasma N-terminal peptide of proatrial natriuretic peptide in preeclampsia. Pouta AM, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):747–53

Failure of plasma atrial natriuretic peptide levels to increase during exercise in patients with chronic atrial fibrillation. Kelly PA, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):10–6

Processing of kaliuretic peptide in human plasma and serum. Overton RM, et al. **Peptides** 1996;17(6):1041–6

Processing of long-acting natriuretic peptide and vessel dilator in human plasma and serum. Overton RM, et al. **Peptides** 1996;17(7):1155–62

Peripheral measures of arginine vasopressin, atrial natriuretic peptide and adrenocorticotropic hormone in premenstrual syndrome. Rosenstein DL, et al. **Psychoneuroendocrinology** 1996 Apr;21(3):347–59

Plasma levels of atrial natriuretic peptide and brain natriuretic peptide following intravenous saline infusion in oedematous chronic obstructive pulmonary disease and non-oedematous chronic obstructive pulmonary disease. Sheedy W, et al. **Respiration** 1996;63(6):376–80

The influence of endocrine changes in donors and recipients on the immediate outcome of kidney transplantation. Rowiński W, et al. **Transplant Proc** 1996 Dec;28(6):3494–6

Plasma human atrial natriuretic peptide under compression therapy in patients with chronic venous insufficiency with or without cardiac insufficiency. Galm O, et al. **Vasa** 1996; 25(1):48–53

Atrial natriuretic peptide and plasma volume of dogs suffering from heart failure or dehydration. Vollmar AM, et al. **Zentralbl Veterinarmed A** 1994 Sep;41(7):548–57

[The significance of changes in plasma renin angiotensin aldosterone system and atrial natriuretic factor in patients with high altitude myocardial hypoxidosis] Li Y, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):812–5 (Eng. Abstr.) **(Chi)**

[Atrial natriuretic factor (ANF) in massive pulmonary embolism: the effects of heparin treatment] Bartolucci L, et al. **Clin Ter** 1996 May;147(5):239–44 (Eng. Abstr.) **(Ita)**

[Clinical relevance and methodological limitations of the determination of atrial natriuretic peptide (ANP) in chronic heart failure (editorial)] Derchi G. **G Ital Cardiol** 1996 Aug; 26(8):875–7 **(Ita)**

[Acute changes in the hemodynamic profile and circulating levels of atrial natriuretic peptide induced by dobutamine in severe heart failure] La Vecchia L, et al. **G Ital Cardiol** 1996 Aug;26(8):863–74 (Eng. Abstr.) **(Ita)**

[Effects of naloxone on plasma levels of atrial natriuretic factor and noradrenaline during water load in moderate heart failure] Tarsi G, et al. **G Ital Cardiol** 1996 Aug; 26(8):879–85 (Eng. Abstr.) **(Ita)**

[Serial changes of atrial natriuretic peptide and brain natriuretic peptide during cesarean section under spinal anesthesia] Ohara R, et al. **Masui** 1996 Oct;45(10):1209–11 (Eng. Abstr.) **(Jpn)**

[ProANF and heart failure in general practice (letter; comment)] Hall C, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):3048. Comment on: Tidsskr Nor Laegeforen 1996 May 20;116(13):1560–1. Comment on: Tidsskr Nor Laegeforen 1996 Aug 10;116(18):2214–5. **(Nor)**

[Cardiac natriuretic peptides as markers of left ventricular dysfunction (see comments)] Omland T, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):943–8 (Eng. Abstr.). Comment in: Tidsskr Nor Laegeforen 1997 Jun 30;117(17):2527. **(Nor)**

[Levels of atrial natriuretic peptide in stable and exacerbated chronic obstructive pulmonary disease] Skwarski K, et al. **Pneumonol Alergol Pol** 1996;64(9–10):627–37 (Eng. Abstr.) **(Pol)**

[Level of endothelin-1,2,6-keto-pgf1-alpha and atrial natriuretic peptide in serum of pregnant women with late hypertension] Halawa B, et al. **Pol Arch Med Wewn** 1996 Jun;95(6):509–13 (Eng. Abstr.) **(Pol)**

[Plasmatic determination of natriuretic peptides in demented patients. Letter] Albadalejo MD, et al. **Rev Neurol** 1997 Mar;25(139):475 **(Spa)**

CEREBROSPINAL FLUID

Possible regulation of intracranial pressure by human atrial natriuretic peptide in cerebrospinal fluid. Yamasaki H, et al. **Eur Neurol** 1997;38(2):88–93

CHEMICAL SYNTHESIS

Synthesis of phospho-urodilatin by combination of global phosphorylation with the segment coupling approach. Mostafavi H, et al. **Int J Pept Protein Res** 1996 Aug; 48(2):200–7

CHEMISTRY

Immunohistochemical expression of atrial natriuretic peptide (ANP) in the conducting system and internodal atrial myocardium of human hearts. Benvenuti LA, et al. **Acta Histochem** 1997 Jun;99(2):187–93

A new natriuretic peptide isolated from cardiac atria of trout, Oncorhynchus mykiss. Takei Y, et al. **FEBS Lett** 1997 Sep

8;414(2):377–80
Stability of atrial natriuretic peptide during storage at –20 degrees C. Buckley MG, et al. **J Hum Hypertens** 1996 Jun; 10(6):431–2

CLASSIFICATION

[The family of natriuretic peptides] Damas J, et al. **Rev Med Liege** 1997 Mar;52(3):169–73 **(Fre)**

DRUG EFFECTS

Indomethacin attenuates the renal actions of atrial natriuretic factor in dogs with chronic heart failure. Villarreal D, et al. **Am J Med Sci** 1997 Aug;314(2):67–72

GENETICS

Endothelin ETA receptor regulates signaling and ANF gene expression via multiple G protein-linked pathways. Hilal-Dandan R, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H130–7
Coronary vascular and endothelial reactivity changes in transgenic mice overexpressing atrial natriuretic factor. Ku DD, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2368–76
Congestive heart failure: increased cardiac and extracardiac atrial natriuretic peptide gene expression. Poulos JE, et al. **Cardiovasc Res** 1996 Nov;32(5):909–19
Ras inhibits Jun-activated human atrial natriuretic peptide gene transcription in cultured ventricular myocytes. Kovacic-Milivojevic B, et al. **Circ Res** 1997 Apr; 80(4):580–8
PCR-SSCP analysis of the glucocorticoid-responsive element of the atrial natriuretic peptide gene in familial primary open-angle glaucoma. Richardson KA, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):427–9
Atrial natriuretic factor (ANF) and ANF receptor C gene expression and localization in the respiratory system: effects induced by hypoxia and hemodynamic overload. Di Nardo P, et al. **Endocrinology** 1996 Oct;137(10):4339–50
Hypoxia stimulates atrial natriuretic peptide gene expression in cultured atrial cardiocytes. Chen YF, et al. **Hypertension** 1997 Jan;29(1 Pt 1):75–82
Differential effects of protein kinase C, Ras, and Raf-1 kinase on the induction of the cardiac B-type natriuretic peptide gene through a critical promoter-proximal M-CAT element. Thuerauf DJ, et al. **J Biol Chem** 1997 Mar 14; 272(11):7464–72
Identification of a cis-acting regulatory element conferring inducibility of the atrial natriuretic factor gene in acute pressure overload. Harsdorf R, et al. **J Clin Invest** 1997 Sep 1;100(5):1294–304
Atrial natriuretic peptide gene polymorphism is not associated with essential hypertension: evidence of association with ethnic origin [letter] Chiang FT, et al. **J Hum Hypertens** 1996 May;10(5):334
The atrial natriuretic peptide gene and essential hypertension in African-Caribbeans from St Vincent and the Grenadines. Daniel HI, et al. **J Hum Hypertens** 1997 Feb;11(2):113–7
Hpa II polymorphism of the atrial natriuretic peptide gene and the blood pressure response to salt intake in normotensive men. Schorr U, et al. **J Hypertens** 1997 Jul; 15(7):715–8
A novel A/T-rich element mediates ANF gene expression during cardiac myocyte hypertrophy. Harris AN, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):515–25
Organization of the mouse cardiac natriuretic peptide locus encoding BNP and ANP. Huang H, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1823–8
Two cardiac natriuretic peptide genes (atrial natriuretic peptide and brain natriuretic peptide) are organized in tandem in the mouse and human genomes. Tamura N, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1811–5
Serum from patients with chronic renal insufficiency alters growth characteristics and ANP mRNA expression of adult rat cardiac myocytes. Yu JZ, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2429–41
Increased atrial natriuretic peptide mRNA expression in the kidney of diabetic rats. Shin SJ, et al. **Kidney Int** 1997 Apr; 51(4):1100–5
Stabilization of the B-type natriuretic peptide mRNA in cardiac myocytes by alpha-adrenergic receptor activation: potential roles for protein kinase C and mitogen-activated protein kinase. Hanford DS, et al. **Mol Endocrinol** 1996 Dec;10(12):1719–27
Sensitivity to cerebral ischaemic insult in a rat model of stroke is determined by a single genetic locus. Jeffs B, et al. **Nat Genet** 1997 Aug;16(4):364–7
Angiotensinogen and natriuretic peptide mRNAs in rat brain: localization and differential regulation by adrenal steroids in hypothalamus. Ryan MC, et al. **Peptides** 1997; 18(4):495–504
Role of calcium in stretch-induced release and mRNA synthesis of natriuretic peptides in isolated rat atrium. Laine M, et al. **Pflugers Arch** 1996 Oct;432(6):953–60
[Study on expression and regulation of atrial natriuretic factor (ANF) gene in nasal mucosa] Zhao X, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(6):332–4 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Atrial natriuretic factor (ANF)-like immunoreactivity and secretory granules in internal gills tadpoles of South American toad Bufo arenarum (Hensel). Alonso D, et al. **Eur J Morphol** 1996 Nov;34(4):285–94

ISOLATION & PURIFICATION

Immunohistochemical identification and effects of atrial natriuretic peptide, pancreastatin, leucine-enkephalin, and galanin in the porcine pancreas. Adeghate E, et al. **Peptides** 1996;17(3):503–9

METABOLISM

Immunohistochemical detection of atrial natriuretic peptide (ANP) in the chief cells of human carotid bodies. Benvenuti LA, et al. **Acta Histochem** 1996 Jan;98(1):89–92
Effect of lesions to the supramammillary area of the posterior hypothalamus on atrial natriuretic peptide release following acute blood volume expansion in conscious Wistar rats. Belova N, et al. **Acta Physiol Pharmacol Bulg** 1995; 21(3):63–6
The metabolic clearance of atrial natriuretic peptide during human pregnancy [see comments] Irons DW, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):449–54. Comment in: Am J Obstet Gynecol 1997 Mar;176(3):730–1.
Atrial systolic pressure, as well as stretch, is a principal stimulus for release of ANF. Christensen G, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H820–6
Comparison of ANP binding and sensitivity in brains from hypertensive and normotensive rats. Grove KL, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1344–53
Changes of atrial natriuretic peptide in brain areas of rats with chronic myocardial infarction. Hu K, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H312–6
Coronary vascular and endothelial reactivity changes in transgenic mice overexpressing atrial natriuretic factor. Ku DD, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2368–76
Increased renal atrial natriuretic peptide synthesis in rats with deoxycorticosterone acetate-salt treatment. Lee YJ, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F779–89
Effect of nitric oxide inhibition on secretion of atrial natriuretic factor in isolated rat heart. Melo LG, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H306–11
Whole body autoradiography and microautoradiography in eels after intra-arterial administration of 125I-labeled eel ANP. Sakaguchi H, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R926–35
ATP-sensitive potassium channels regulate stimulated ANF secretion in isolated rat heart. Xu T, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2339–45
Fluid preload and atrial natriuretic peptide [letter; comment] Rout CC. **Anaesthesia** 1996 Sep;51(9):889–90. Comment on: Anaesthesia 1996 Feb;51(2):128–32.
Rat natriuretic peptide binds specifically to plant membranes and induces stomatal opening. Gehring CA, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):739–44
Stimulation by retinoids of the natriuretic peptide system of osteoblastic MC3T3-E1 cells. Inoue A, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):182–6
Modulation by low sodium intake of glomerular response to cicletanine and atrial natriuretic factor. Kalinowski L, et al. **Br J Pharmacol** 1997 Jun;121(4):635–42
Atrial natriuretic factor responses to submaximal and maximal exercise. Mandroukas K, et al. **Br J Sports Med** 1995 Dec; 29(4):248–51
Ectopic production and processing of atrial natriuretic peptide in a small cell lung carcinoma cell line and tumor from a patient with hyponatremia. Johnson BE, et al. **Cancer** 1997 Jan 1;79(1):35–44
Mechanical and neuroendocrine regulation of the endocrine heart. de Bold AJ, et al. **Cardiovasc Res** 1996 Jan;31(1):7–18 (154 ref.)
Til death do us part: a case of failed affection [comment] Waber KT. **Cardiovasc Res** 1995 Jul;30(1):26. Comment on: Cardiovasc Res 1995 Jul;30(1):27–30.
Characterization of human platelet receptors for atrial natriuretic peptide: evidence for clearance receptors. Blaise V, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Dec; 42(8):1173–9
Inhibition of neutral endopeptidase, the degradative enzyme for natriuretic peptides, in rat kidney after oral SCH 42495. Burrell LM, et al. **Clin Sci (Colch)** 1997 Jul;93(1):43–50
Specific binding sites for atrial natriuretic peptide in the freshwater turtle, Amyda japonica. Kim SZ, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Sep;115(1):67–73
Endogenous nitric oxide production and atrial natriuretic peptide biological activity in infants undergoing cardiac operations. Seghaye MC, et al. **Crit Care Med** 1997 Jun; 25(6):1063–70
The natriuretic peptide family. Nakao K, et al. **Curr Opin Nephrol Hypertens** 1996 Jan;5(1):4–11 (73 ref.)
Impaired vasopressin suppression and enhanced atrial natriuretic hormone release following an acute water load in primary aldosteronism. Kimura T, et al. **Eur J Endocrinol** 1997 Aug;137(2):154–61
Mutations in B-type natriuretic peptide mediating receptor-A selectivity. Schoenfeld JR, et al. **FEBS Lett** 1997 Sep 8;414(2):263–7
Differential gene expression of the three natriuretic peptides and natriuretic peptide receptor subtypes in human liver [see comments] Vollmar AM, et al. **Gut** 1997 Jan; 40(1):145–50. Comment in: Gut 1997 Jan;40(1):151–2.
Natriuretic peptides: are these new links in the hepatorenal connections? [comment] Wong F, et al. **Gut** 1997 Jan; 40(1):151–2. Comment on: Gut 1997 Jan;40(1):145–50.
Atrial natriuretic peptide in renal transplantation. Plum J, et al. **Horm Res** 1996;46(2):74–82
Clonidine and ST-91 may activate imidazoline binding sites in the heart to release atrial natriuretic peptide. Mukaddam-Daher S, et al. **Hypertension** 1997 Jul;30(1 Pt 1):83–7
Thrombin inhibits atrial natriuretic peptide receptor activity in cultured bovine endothelial cells. Zlock DW, et al. **Hypertension** 1997 Jan;29(1 Pt 1):83–90
Venticular expression of atrial and brain natriuretic peptides in patients with myocarditis. Takemura G, et al. **Int J Cardiol** 1995 Dec;52(3):213–22
Atrial natriuretic peptide levels and plasma volume contraction in acute alveolar hypoxia. Albert TS, et al. **J Appl Physiol** 1997 Jan;82(1):102–10
Acute alveolar hypoxia increases blood-to-tissue albumin transport: role of atrial natriuretic peptide. Albert TS, et al. **J Appl Physiol** 1997 Jan;82(1):111–7
Fluid and electrolyte hormonal responses to exercise and acute plasma volume expansion. Grant SM, et al. **J Appl Physiol** 1996 Dec;81(6):2386–92
The guanylyl cyclase-deficient mouse defines differential pathways of natriuretic peptide signaling. Lopez MJ, et al. **J Biol Chem** 1997 Sep 12;272(37):23064–8
Vasoactive peptides modulate vascular endothelial cell growth factor production and endothelial cell proliferation and invasion. Pedram A, et al. **J Biol Chem** 1997 Jul 4; 272(27):17097–103
Atrial natriuretic peptide and cardiac electrophysiology: autonomic and direct effects. Clemo HF, et al. **J Cardiovasc Electrophysiol** 1996 Feb;7(2):149–62 (124 ref.)
Angiotensin II-induced phosphoinositide production and atrial natriuretic peptide release in rat atrial tissue. Soualmia H, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):605–11
Evidence that atrial natriuretic peptide tissue extraction is not changed by large increases in its plasma levels induced by pacing in humans. Iervasi G, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):884–8
Atrial natriuretic factor and digoxin-like immunoreactive factor in diabetic patients: their interrelation and the influence of the autonomic nervous system [letter; comment] Paci A, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2375–6. Comment on: J Clin Endocrinol Metab 1996 Sep;81(9):3385–9.
Localization of natriuretic peptide-activated guanylate cyclase mRNAs in the rat brain. Herman JP, et al. **J Comp Neurol** 1996 May 27;369(2):165–87
Regulation of the natriuretic peptide system in rat uterus during the estrous cycle. Reis AM, et al. **J Endocrinol** 1997 Jun;153(3):345–55
Alterations in atrial natriuretic peptide (ANP) secretion and renal effects in aging. Pollack JA, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul;52(4):B196–202
Effects of long-term administration of octreotide on sodium retention and atrial natriuretic peptide in carbon tetrachloride-induced cirrhotic rats. Wang SS, et al. **J Hepatol** 1997 May;26(5):1128–34
Altered expression of atrial natriuretic peptide and contractile protein genes in hypertrophied ventricle of JVS mice with systemic carnitine deficiency. Yoshimine K, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):571–8
C-type natriuretic peptide in chronic renal failure and its action in humans. Igaki T, et al. **Kidney Int Suppl** 1996 Jun;55:S144–7
Changes of atrial natriuretic peptide level in patients with nephrotic syndrome after supine bicycle exercise. Park SK, et al. **Korean J Intern Med** 1996 Jan;11(1):18–24
Changes of vasoactive peptides and effects of inhaled nitric oxide after pneumonectomy. Ohtsuka S. **Kurume Med J** 1996;43(4):295–304
Characteristics of ANP-binding sites in the adrenal capsules of term-pregnant rats. Forcier I, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):189–94
Processing of kaliuretic peptide in human plasma and serum. Overton RM, et al. **Peptides** 1996;17(6):1041–6
Binding of CNP-22 and CNP-53 to cultured mouse astrocytes and effects on cyclic GMP. Yeung VT, et al. **Peptides** 1996;17(1):101–6
Glibenclamide suppresses stretch-activated ANP secretion: involvements of K+ATP channels and L-type Ca2+ channel modulation. Kim SH, et al. **Pflugers Arch** 1997 Aug;434(4):362–72
ANP gene expression in rat hearts during hypoxia. Pfeifer M, et al. **Pflugers Arch** 1997 May;434(1):63–9
Atrial natriuretic peptide in brain and pituitary gland. Gutkowska J, et al. **Physiol Rev** 1997 Apr;77(2):465–515 (468 ref.)
Neutral endopeptidase inhibition increases the potency of ANP in isolated rat pulmonary resistance vessels and isolated blood perfused lungs. Thompson JS, et al. **Pulm Pharmacol** 1995 Apr-Jun;8(2-3):143–7
Elevated levels of natriuretic peptides in lungs of hamsters with genetic cardiomyopathy. Cárnio EC, et al. **Regul Pept** 1997 May 14;70(1):67–73
Circadian blood pressure rhythm and atrial natriuretic peptide in prednisolone-induced blood pressure elevation. Ivarsen P, et al. **Scand J Clin Lab Invest** 1995 Dec; 55(8):655–62
Serum N-terminal pro-atrial natriuretic factor 1–98 before and during thyroxine replacement therapy in severe

hypothyroidism. Bernstein R, et al. **Thyroid** 1997 Jun; 7(3):415–9

[Changes in endothelin–1 and atrial natriuretic peptide in peritoneal fluid of pelvic venous congestion syndrome after tubal sterilization] Li H, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Sep;31(9):533–6 (Eng. Abstr.) **(Chi)**

PHARMACOKINETICS

Atrial natriuretic peptide in preeclampsia: metabolic clearance, sodium excretion and renal hemodynamics. Irons DW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F483–7

Comparative bioactivity of atrial and brain natriuretic peptides in an ovine model of heart failure. Rademaker MT, et al. **Clin Sci (Colch)** 1997 Feb;92(2):159–65

Neutral endopeptidase inhibition potentiates the effects of natriuretic peptides in renin transgenic rats. Wegner M, et al. **Hypertens Res** 1996 Dec;19(4):229–38

Disposition of vessel dilator and long–acting natriuretic peptide in healthy humans after a one–hour infusion. Ackerman BH, et al. **J Pharmacol Exp Ther** 1997 Aug; 282(2):603–8

PHARMACOLOGY

The goat mammary gland as a target organ for atrial natriuretic peptide. Cvek K, et al. **Acta Physiol Scand** 1997 May;160(1):9–14

Cardiovascular and renal effects of endothelin receptor blockade with PD 145065 and interaction with urodilatin. Dobrowolski L, et al. **Acta Physiol Scand** 1997 Jan; 159(1):7–13

Effect of atrial natriuretic factor and fate of cyclic–guanosine–monophosphate in the rat kidney. Syrén ML. **Acta Physiol Scand** 1997 May;160(1):1–7

Cardiovascular and renal effects of low–dose atrial natriuretic peptide in compensated cirrhosis. La Villa G, et al. **Am J Gastroenterol** 1997 May;92(5):852–7

Effect of luminal angiotensin II and ANP on early and late cortical distal tubule HCO3– reabsorption. Barreto–Chaves ML, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F977–84

Enhanced natriuretic response to intrarenal infusion of atrial natriuretic factor during ovine pregnancy. Fan L, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1132–40

BNP: pathophysiological and potential therapeutic roles in acute congestive heart failure. Grantham JA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1077–83

Comparison of ANP binding and sensitivity in brains from hypertensive and normotensive rats. Grove KL, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1344–53

cGMP produced in response to ANP and CNP regulates proliferation and differentiation of osteoblastic cells. Hagiwara H, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1311–8

ANP protects against reoxygenation–induced hypercontracture in adult cardiomyocytes. Hempel A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H244–9

Atrial natriuretic peptide in preeclampsia: metabolic clearance, sodium excretion and renal hemodynamics. Irons DW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F483–7

Atrial natriuretic hormone inhibits angiotensin II–stimulated sympathetic nerve activity in humans. Matsukawa T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R464–71

ANP–stimulated cGMP egression in renal principal cells: abrogation of polarity by SV40 large T. Millul V, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1051–60

Effects of natriuretic peptides and nitroprusside on venous function in trout. Olson KR, et al. **Am J Physiol** 1997 Aug; 273(2 Pt 2):R527–39

Reduced vasodilator response to ANF in hypoxia–induced pulmonary hypertension in the newborn piglet. Perreault T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L289–95

Regulation of human erythrocyte Na+/H+ exchange by soluble and particulate guanylate cyclase. Petrov V, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1556–64

Dual modulation of Na/H antiport by atrial natriuretic factor in rat aortic smooth muscle cells. Ricci R, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C643–52

Renal resistance to ANF in salt–depleted rats is independent of sympathetic or ANG–aldosterone systems. Veress AT, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F545–50

The effects of atrial natriuretic peptide infusion on hemodynamic, renal, and hormonal responses during gastrectomy. Shirakami G, et al. **Anesth Analg** 1997 Oct; 85(4):907–12

C–type natriuretic protein inhibits intimal thickening after vascular injury. Matsuo H, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:45–7 (10 ref.)

Natriuretic peptide family as a novel antimigration factor of vascular smooth muscle cells. Ikeda M, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):731–6

Atrial natriuretic factor modifies the biosynthesis and turnover of norepinephrine in the rat adrenal medulla. Fernández BE, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):343–6

Regulation of water channel activity of aquaporin 1 by arginine vasopressin and atrial natriuretic peptide. Patil RV, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):392–6

Differential regulation of natriuretic peptide receptors on ciliary body epithelial cells. Crook RB, et al. **Biochem J** 1997 May 15;324 (Pt 1):49–55

Effect of cyclic GMP produced by natriuretic peptides on osteoblast–like MC3T3–E1 cells. Nashida T, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1243–51

Direct chronotropic effects of atrial and C–type natriuretic peptides in anaesthetized dogs. Beaulieu P, et al. **Br J Pharmacol** 1996 Aug;118(7):1790–6

Modulation by atrial natriuretic factor of receptor–mediated cyclic AMP–dependent responses in canine pulmonary artery during heart failure. Mathew R, et al. **Br J Pharmacol** 1996 Aug;118(8):1886–90

Effects of natriuretic peptides and dopamine on single–unit activity of dorsomedial arcuate neurons in rat brain slices. Pan JT, et al. **Brain Res** 1996 Oct 21;737(1–2):78–82

Central interaction between atrial natriuretic peptide and angiotensin II in the control of sodium intake and excretion in female rats. De–Angelis PR, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1671–4

Atrial and C–type natriuretic peptides amplify growth factor activity in primary aortic smooth muscle cells. Dhaunsi GS, et al. **Cardiovasc Res** 1996 Jan;31(1):37–47

Mechanisms of natriuretic–peptide–induced growth inhibition of vascular smooth muscle cells. Hutchinson HG, et al. **Cardiovasc Res** 1997 Jul;35(1):158–67

Stimulation of collagen synthesis in rat cardiac fibroblasts by exposure to hypoxic culture conditions and suppression of the effect by natriuretic peptides. Tamamori M, et al. **Cell Biol Int** 1997 Mar;21(3):175–80

Effect of atrial natriuretic factor on corticotrophin–releasing hormone–induced adrenocorticotrophin release in the mature ovine foetus. McFarlane AC, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):428–31

Increasing resting vascular tone in conscious dogs does not alter the mesenteric vasoconstrictor responses to ANP. Woods RL, et al. **Clin Exp Pharmacol Physiol** 1996 Jan; 23(1):95–7

Regulation of renal tubular sodium transport by angiotensin II and atrial natriuretic factor. Harris PJ, et al. **Clin Exp Pharmacol Physiol Suppl** 1996;3:S112–8 (74 ref.)

Plasma and urinary digitalis–like substance levels during atrial natriuretic peptide infusion in essential hypertensive patients. Baldoncini R, et al. **Clin Invest Med** 1996 Feb; 19(1):13–9

Renal natriuretic effects of atrial natriuretic peptide in dogs with alloxan–induced acute pulmonary edema. Levy M, et al. **Clin Invest Med** 1996 Dec;19(6):435–43

Endotoxin–induced acute renal failure in the rat: effects of urodilatin and diltiazem on renal function. Schramm L, et al. **Clin Nephrol** 1996 Aug;46(2):117–24

Effect of urodilatin infusion on renal haemodynamics, tubular function and vasoactive hormones. Carstens J, et al. **Clin Sci (Colch)** 1997 Apr;92(4):397–407

Ularitide: from renal natriuretic peptide to clinical trials. Meyer M, et al. **Curr Opin Nephrol Hypertens** 1996 Jul; 5(4):364–8 (40 ref.)

Atrial natriuretic peptide and cyclic nucleotides affect glucose–induced Ca2+ responses in single pancreatic islet beta–cells: correlation with (Ca[2+] + Mg2+)–ATPase activity. Lee B, et al. **Diabetes** 1997 Aug;48(8):1312–8

Atrial natriuretic peptide accelerates proliferation of chick embryonic cardiomyocytes in vitro. Koide M, et al. **Differentiation** 1996 Oct;61(1):1–11

Effect of eel ventricular natriuretic peptide on the kidney and cardiovascular system in the dog. Arai M, et al. **Endocr J** 1996 Apr;43(2):205–10

Effects of different natriuretic peptides on nitric oxide synthesis in macrophages. Kiemer AK, et al. **Endocrinology** 1997 Oct;138(10):4282–90

Atrial natriuretic peptide (ANP) inhibits its own secretion via ANP(A) receptors: altered effect in experimental hypertension. Leskinen H, et al. **Endocrinology** 1997 May; 138(5):1893–902

Acute effects of atrial natriuretic peptide on left ventricular diastolic function. a pulsed wave Doppler study in man. Clarkson PB, et al. **Eur Heart J** 1995 Nov;16(11):1710–15

Interactions between endothelin–1 and atrial natriuretic peptide influence cultured chick cardiac myocyte contractility. Bézie Y, et al. **Eur J Pharmacol** 1996 Sep 12;311(2–3):241–8

Inhibition of neural ATP release by atrial natriuretic peptide in guinea–pig vas deferens. Driessen B, et al. **Eur J Pharmacol** 1996 Feb 5;296(3):261–5

Involvement of K+ channels in the relaxant effect of vasoactive intestinal peptide and atrial natriuretic peptide in isolated guinea–pig trachea. Thirstrup S, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):253–9

Effects of atrial natriuretic peptide on phagocytosis and respiratory burst in murine macrophages. Vollmar AM, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):279–85

Mutations in B–type natriuretic peptide mediating receptor–A selectivity. Schoenfeld JR, et al. **FEBS Lett** 1997 Sep 8;414(2):263–7

Effects of natriuretic peptides on vascular smooth–muscle cells derived from different vascular beds. Arjona AA, et al. **Gen Pharmacol** 1997 Mar;28(3):387–92

Expression of guanylyl cyclase–A/atrial natriuretic peptide receptor blocks the activation of protein kinase C in vascular smooth muscle cells. Role of cGMP and cGMP–dependent protein kinase. Kumar R, et al. **Hypertension** 1997 Jan;29(1 Pt 2):414–21

Potentiation of human polymorphonuclear leukocyte activation by atrial natriuretic peptide. Inhibitory effect of carnitine congeners. Biselli R, et al. **Inflammation** 1996 Feb; 20(1):33–42

Atrial natriuretic peptide, brain natriuretic peptide and c–type natriuretic peptide: effects on testicular microcirculation and immunohistochemical localization. Collin O, et al. **Int J Androl** 1997 Feb;20(1):55–60

Oxygen modulation of guanylate cyclase–mediated retinal pericyte relaxations with 3–morpholino–sydnonimine and atrial natriuretic peptide. Haefliger IO, et al. **Invest Ophthalmol Vis Sci** 1997 Jul;38(8):1563–8

Mechanisms contributing to renal resistance to atrial natriuretic peptide in rats with common bile–duct ligation. Ni X, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2110–8

Abnormal glomerular response to atrial natriuretic peptide in rats with aortocaval fistulas. Norling LL, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1038–44

Phosphodiesterase inhibitors correct resistance to natriuretic peptides in rats with Heymann Nephritis. Valentin JP, et al. **J Am Soc Nephrol** 1996 Apr;7(4):582–93

Inhibitory effect of atrial natriuretic peptide on accelerated endothelin secretion from cultured human endothelial cells. Yoshida H, et al. **J Atheroscler Thromb** 1994;1(2):76–9

Atrial natriuretic peptide induces apoptosis in neonatal rat cardiac myocytes. Wu CF, et al. **J Biol Chem** 1997 Jun 6;272(23):14860–6

Effects of human atrial natriuretic peptide in patients after coronary artery bypass surgery. Bergman A, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):490–6

Effect of atrial natriuretic factor on skin microcirculation versus skeletal muscle blood flow. Branten AJ, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):303–6

Excretory responses to renal nerve stimulation during inhibition of neutral metalloendopeptidase and angiotensin–converting enzyme in the rat. Golin R, et al. **J Cardiovasc Pharmacol** 1996 Nov;28(5):665–71

Phosphatidylinositol– and phosphatidylcholine–dependent phospholipases C are involved in the mechanism of action of atrial natriuretic factor in cultured rat aortic smooth muscle cells. Zannetti A, et al. **J Cell Physiol** 1997 Mar; 170(3):272–8

Natriuretic peptides modulate nitric oxide synthesis in cytokine–stimulated cardiac myocytes. Yamamoto K, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2375–82

Particulate ANP–sensitive guanylyl cyclase: induction in cultured human peripheral CD3+ mononuclear blood cells. Heim JM, et al. **J Mol Med** 1996 Oct;74(10):629–35

Influence of atrial natriuretic peptide on thymocyte development in fetal thymic organ culture. Vollmar AM. **J Neuroimmunol** 1997 Sep;78(1–2):90–6

Atriopeptin lowers aqueous humor formation and intraocular pressure and elevates ciliary cyclic GMP but lacks uveal vascular effects in the bovine perfused eye. Millar JC, et al. **J Ocul Pharmacol Ther** 1997 Feb;13(1):1–11

Influence of atrial natriuretic factor on fluid efflux from the splenic circulation of the rat. Deng Y, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):225–30

Natriuretic peptide receptors mediate different responses in rat renal microvessels. Endlich K, et al. **Kidney Int** 1997 Jul;52(1):202–7

C–type natriuretic peptide in chronic renal failure and its action in humans. Igaki T, et al. **Kidney Int Suppl** 1996 Jun;55:S144–7

PGF2 alpha causes bronchoconstriction and pulmonary vasoconstriction via thromboxane receptors in rat lung. Kang KH, et al. **Korean J Intern Med** 1996 Jan;11(1):74–81

The effects of atrial natriuretic peptide (ANP1–28) on corticotropin releasing factor in brain of rats. Biró E, et al. **Life Sci** 1996;59(16):1351–6

Endothelin production in cultured vascular smooth muscle cells—modulation by the atrial, brain, and C–type natriuretic peptide system. Hanehira T, et al. **Metabolism** 1997 May;46(5):487–93

Atrial natriuretic peptides increase calcitonin gene–related peptide within human circulation. Vesely DL, et al. **Metabolism** 1997 Jul;46(7):818–25

Comparative study of cardiac electrophysiological effects of atrial natriuretic peptide. Kecskemeti V, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:53–9

Atrial natriuretic peptide inhibits the phosphoinositide hydrolysis in murine Leydig tumor cells. Khurana ML, et al. **Mol Cell Biochem** 1996 May 24;158(2):97–105

The H295R human adrenocortical cell line contains functional atrial natriuretic peptide receptors that inhibit aldosterone biosynthesis. Bodart V, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1–2):137–44

Effect of urodilatin on platelet–activating factor–induced bronchoconstriction, vasoconstriction and edema formation in isolated rat lung. Uhlig S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):684–8

Atrial natriuretic peptide and C–type natriuretic peptide do not acutely inhibit the release of adrenocorticotropin from equine pituitary cells in vitro. Mulligan RS, et al. **Neuroendocrinology** 1997 Jan;65(1):64–9

Anxiolytic activity of intraventricularly administered atrial natriuretic peptide in the rat. Bhattacharya SK, et al. **Neuropsychopharmacology** 1996 Aug;15(2):199–206

Immediate early gene induction by natriuretic peptides in PC12 phaeochromocytoma and C6 glioma cells. Thiriet N, et al. **Neuroreport** 1997 Jan 20;8(2):399–402

Atrial natriuretic factor increases peritoneal dialysis efficiency in nephrectomized rats. Bianciotti LG, et al. **Peptides** 1996;17(1):87–92

Atrial natriuretic peptide (ANP)-induced inhibition of glucagon secretion: mechanism of action in isolated rat pancreatic islets. Verspohl EJ, et al. **Peptides** 1996; 17(6):1023-9

Atrial natriuretic factor modifies the composition of induced-salivary secretion in the rat. Bianciotti LG, et al. **Regul Pept** 1996 Sep 9;65(2):139-43

Effects of atrial natriuretic factor on glucose metabolism in isolated adipocytes. Crilley CT, et al. **Regul Pept** 1997 Jan 29;68(2):125-30

Endothelin-3 reduces C-type natriuretic peptide-induced cyclic GMP formation in C6 glioma cells. Tsang D, et al. **Regul Pept** 1997 Jun 18;70(2-3):91-6

B and C types natriuretic peptides modulate norepinephrine uptake and release in the rat hypothalamus. Vatta MS, et al. **Regul Pept** 1996 Sep 16;65(3):175-84

Inhibition of cGMP-phosphodiesterase restores the glomerular effects of atrial natriuretic factor in low sodium diet rats. Kalinowski L, et al. **Ren Physiol Biochem** 1995 Sep-Oct;18(5):254-66

Lack of inhibitory effect of atrial natriuretic factor on renin release induced by renal hypotension. Naess PA, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):665-70

Influence of vasoactive intestinal peptide (VIP), atrial natriuretic peptide (ANP) and insulin-like growth factor-I (IGF-I) on in vitro maturation of prepubertal and adult sheep oocytes. Ledda S, et al. **Zygote** 1996 Nov;4(4):343-8

[cGMP synthesis induced by atrial natriuretic peptide, C-type natriuretic peptide, and nitric oxide in the rat retina] Moriwaki Y, et al. **Nippon Ganka Gakkai Zasshi** 1996 Mar; 100(3):187-91 (Eng. Abstr.) **(Jpn)**

[Effect of atrial peptides on proliferative processes in the myocardium of albino rats during early stage of postnatal ontogenesis] Goncharova EN, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):321-4 **(Rus)**

[Effect of adrenocorticotropic hormone fragments and atriopeptides on the development of toxic brain edema-swelling] Platonov IA, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):521-3 **(Rus)**

PHYSIOLOGY

Postprandial natriuresis in humans: further evidence that urodilatin, not ANP, modulates sodium excretion. Drummer C, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F301-10

Protein kinase A activity modulates natriuretic peptide-dependent cGMP accumulation in renal cells. Ledoux S, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C82-9

Urodilatin is involved in sodium homeostasis and exerts sodium-state-dependent natriuretic and diuretic effects. Meyer M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F489-97

Atrial natriuretic peptide accounts for increased cGMP in hypoxia-induced hypertensive rat lungs. Muramatsu M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1126-32

Contribution of ANP to plasma protein escape during VE: effects of thiorphan and atrial appendectomy. Tucker VL. **Am J Physiol** 1996 Sep;271(3 Pt 2):R610-8

Endogenous atrial natriuretic peptide inhibits endothelin-1 secretion in dogs with severe congestive heart failure. Wada A, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1819-24

Significance of vascular natriuretic peptide system in vascular remodeling in humans and its application to gene therapy. Itoh H, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:533-41 (32 ref.)

Metoclopramide does not inhibit atrial natriuretic factor-stimulated diuresis in man. Farrow S, et al. **Aviat Space Environ Med** 1996 Mar;67(3):248-52

Remodeling of the brain post myocardial infarction: focus on central ANF. Ertl G, et al. **Basic Res Cardiol** 1997 Apr; 92(2):82-4 (11 ref.)

Stimulation of atrial natriuretic peptide receptor/guanylyl cyclase- A signaling pathway antagonizes the activation of protein kinase C-alpha in murine Leydig cells. Kumar R, et al. **Biochim Biophys Acta** 1997 Apr 24;1356(2):221-8

Vascular action of circulating and local natriuretic peptide systems is potentiated in obese/hyperglycemic and hypertensive rats. Yoshimoto T, et al. **Endocrinology** 1996 Dec;137(12):5552-7

Brain natriuretic peptide versus atrial natriuretic peptide--physiological and pathophysiological significance in children and adults: a review. Yoshibayashi M, et al. **Eur J Endocrinol** 1996 Sep;135(3):265-8 (22 ref.)

Interaction of osmotic and volemic mechanisms in secretion of atrial and ventricular natriuretic peptides in eels. Kaiya H, et al. **Gen Comp Endocrinol** 1997 Sep;107(3):322-6

The renin-angiotensin-aldosterone system and the cardiac natriuretic peptides. Richards AM. **Heart** 1996 Nov;76(3 Suppl 3):36-44 (80 ref.)

Functional role of atrial natriuretic peptide in acute renal transplant rejection. Naicker S, et al. **Immunopharmacology** 1996 Jun;33(1-3):161-3

C-type natriuretic peptide-mediated coronary vasodilation: role of the coronary nitric oxide and particulate guanylate cyclase systems. Wright RS, et al. **J Am Coll Cardiol** 1996 Oct;28(4):1031-8

Pathophysiological role and diuretic efficacy of atrial natriuretic peptide in renal patients. De Nicola L, et al. **J Am Soc Nephrol** 1997 Mar;8(3):445-55

Effects of age on the role of atrial natriuretic factor in renal adaptation to physiologic variations of dietary salt intake. Leosco D, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1045-51

Roles of natriuretic peptides in heart failure. Nakao K, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S129-33

Renal role of the endogenous natriuretic peptide system in acute congestive heart failure. Stevens TL, et al. **J Card Fail** 1996 Jun;2(2):119-25

Atrial natriuretic peptide regulation of noradrenaline release in the anterior hypothalamic area of spontaneously hypertensive rats. Peng N, et al. **J Clin Invest** 1996 Nov 1;98(9):2060-5

Atrial natriuretic peptide modulates synaptic transmission from osmoreceptor afferents to the supraoptic nucleus. Richard D, et al. **J Neurosci** 1996 Dec 1;16(23):7526-32

Alpha-atrial natriuretic peptide-induced attenuation of vasoconstriction in the fetal circulation of the human isolated perfused placenta. Stebbing PN, et al. **J Perinat Med** 1996;24(3):253-60

The peripheral action of clonidine analog ST-91: involvement of atrial natriuretic factor. Gutkowska J, et al. **J Pharmacol Exp Ther** 1997 May;281(2):670-6

Role of atrial natriuretic factor, hemodynamic changes and renal nerves in the renal effects of intraperitoneal morphine in conscious rats. Flores O, et al. **Kidney Blood Press Res** 1997;20(1):18-24

Role of atrial natriuretic factor in volume control. Maack T. **Kidney Int** 1996 Jun;49(6):1732-7 (20 ref.)

Physiologic role and diuretic efficacy of atrial natriuretic peptide in health and chronic renal disease. Conte G, et al. **Kidney Int Suppl** 1997 Jun;59:S28-32 (21 ref.)

Region-specific developmental patterns of atrial natriuretic factor- and nitric oxide-activated guanylyl cyclases in the postnatal frontal rat brain. Markerink-Van Ittersum M, et al. **Neuroscience** 1997 May;78(2):571-87

Regulation of the renal response to atrial natriuretic peptide by sodium intake in preweaned rats. Chevalier RL, et al. **Pediatr Res** 1996 Aug;40(2):294-9

Natriuretic peptides in water-deprived and in salt-loaded rats. Makino Y, et al. **Peptides** 1996;17(6):1031-9

Interactions of angiotensin II and atrial natriuretic peptide in the brain: fish to rodent. Galli SM, et al. **Proc Soc Exp Biol Med** 1996 Nov;213(2):128-37 (65 ref.)

Neural control of atrial natriuretic peptide actions on fluid intake and excretion. McCann SM, et al. **Proc Soc Exp Biol Med** 1996 Nov;213(2):117-27 (53 ref.)

The atrial natriuretic peptide-renin-aldosterone system in hepatorenal syndrome. Pasqualetti P, et al. **Riv Eur Sci Med Farmacol** 1996 Jul-Aug;18(4):137-41

The renal paracrine peptide system--possible urologic implications of urodilatin. Meyer M, et al. **World J Urol** 1996;14(6):375-9 (49 ref.)

[The atrial natriuretic factor] Brankova Iu. **Mol Med (Sofia)** 1996;1(1):21-30 (125 ref.) **(Bul)**

[Heart failure and circulatory control peptides] Takeshita A. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):138-42 (10 ref.) **(Jpn)**

SECRETION

Pre-eclampsia: the effect of intravenous fluid preload on atrial natriuretic peptide secretion during caesarean section under spinal anaesthesia. Pouta A, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1203-9

Different secretion profiles of atrial and brain natriuretic peptides after acute volume loading in patients with ischemic heart disease. Matsumoto N, et al. **Acta Cardiol** 1997;52(3):261-72

Stimulation of atrial natriuretic peptide release by neurokinins in neonatal rat ventricular cardiomyocytes. Church DJ, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H935-44

Autonomic reactivity and hormonal secretion in lactate-induced panic attacks. Seier FE, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2630-8

Endothelin and nitric oxide interact to regulate stretch-induced ANP secretion. Skvorak JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R301-6

Effect of age on stretch-induced secretion of atrial natriuretic factor. Zhang Y, et al. **Can J Physiol Pharmacol** 1996 Feb; 74(2):132-6

Atrial natriuretic peptide (ANP) inhibits its own secretion via ANP(A) receptors: altered effect in experimental hypertension. Leskinen H, et al. **Endocrinology** 1997 May; 138(5):1893-902

Effect of short-term endurance training on exercise capacity, haemodynamics and atrial natriuretic peptide secretion in heart transplant recipients. Geny B, et al. **Eur J Appl Physiol** 1996;73(3-4):259-66

Atrial natriuretic hormone responses to clonidine in patients with panic disorder and in healthy control subjects [letter; comment] Kellner M, et al. **Eur J Endocrinol** 1997 Jul; 137(1):84-5. Comment on: Eur J Endocrinol 1995 Feb;132(2):147-51.

Stretch-induced increase in atrial natriuretic peptide secretion is blocked by thapsigargin. Taskinen P, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):295-300

Age-related changes in secretion and metabolic effects of a trial natriuretic factor in rats. Rakotondrazafy J, et al. **Gerontology** 1996;42(2):79-86

Effect of rapid intra-atrial saline infusion on atrial pressures and atrial natriuretic hormone secretion. Shenker Y, et al. **Horm Metab Res** 1997 Jan;29(1):33-7

Relaxin stimulates atrial natriuretic peptide secretion in perfused rat heart. Toth M, et al. **J Endocrinol** 1996 Sep; 150(3):487-95

Mechanisms for the secretion of ANP. Cho KW, et al. **J Korean Med Sci** 1997 Apr;12(2):83-91 (68 ref.)

Atrial natriuretic peptide release after cardiac transplantation [letter] El Gamel A, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1128-9

[Secretion of atrial natriuretic peptide from the left ventricle and heart in patients with hypertrophic cardiomyopathy: relationship with hemodynamic and echocardiographic profiles] Ishii Y, et al. **J Cardiol** 1997 Jul;30(1):19-28 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Supersensitive dilator response to nitroglycerin but not to atrial natriuretic peptide in spastic coronary arteries in coronary spastic angina. Kugiyama K, et al. **Am J Cardiol** 1997 Mar 1;79(5):606-10

The effect of atrial natriuretic peptide on pulmonary acid injury in a pig model. Tanabe M, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1351-6

Myocardial circulatory and metabolic effects of atrial natriuretic peptide after coronary artery bypass grafting. Valsson F, et al. **Anesth Analg** 1996 Nov;83(5):928-34

Basic aspects of vasorelaxant and bronchodilating peptides in clinical use: urodilatin (INN: Ularitide), VIP, and PACAP. Meyer M, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:443-61; discussion 461-3 (104 ref.)

The beneficial effects of atrial natriuretic peptide on arrhythmias and myocardial high-energy phosphates after reperfusion. Takata Y, et al. **Cardiovasc Res** 1996 Aug; 32(2):286-93

Atrial natriuretic peptide and brain natriuretic peptide in cor pulmonale. Hemodynamic and endocrine effects [see comments] Cargill RI, et al. **Chest** 1996 Nov;110(5):1220-5 . Comment in: Chest 1996 Nov;110(5):1136-8.

The natriuretic peptides. Clinical applications in patients with COPD [editorial; comment] Klinger JR, et al. **Chest** 1996 Nov;110(5):1136-8. Comment on: Chest 1996 Nov;110(5):1220-5.

Urodilatin (INN:ularitide) as a new drug for the therapy of acute renal failure following cardiac surgery. Meyer M, et al. **Clin Exp Pharmacol Physiol** 1997 May;24(5):374-6

Natriuretic peptides in the treatment of heart failure. Yasue H, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S277-85

Natriuretic response to the combination of atrial natriuretic peptide and terlipressin in patients with cirrhosis and refractory ascites. Gadano A, et al. **J Hepatol** 1997 Jun; 26(6):1229-34

Beneficial effect of synthetic human atrial natriuretic polypeptide on renal function in a patient with giant atria. Nishimura K, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):793-5

Anaritide in acute tubular necrosis. Auriculin Anaritide Acute Renal Failure Study Group [see comments] Allgren RL, et al. **N Engl J Med** 1997 Mar 20;336(12):828-34. Comment in: N Engl J Med 1997 Mar 20;336(12):870-1.

Acute renal failure--the promise of new therapies [editorial; comment] Humes HD. **N Engl J Med** 1997 Mar 20; 336(12):870-1. Comment on: N Engl J Med 1997 Mar 20;336(12):828-34.

URINE

Development of a urodilatin-specific antibody and radioimmunoassay for urodilatin in human urine. Carstens J, et al. **Clin Chem** 1997 Apr;43(4):638-43

Increased renal natriuretic peptide (urodilatin) excretion in heart failure patients. Drummer C, et al. **Eur J Med Res** 1997 Aug 28;2(8):347-54

Urinary excretion of urodilatin in patients with cirrhosis. Saló J, et al. **Hepatology** 1996 Dec;24(6):1428-32

ATRIAL NATRIURETIC FACTOR RECEPTORS see **RECEPTORS, ATRIAL NATRIURETIC FACTOR**

ATRIAL NATRIURETIC PEPTIDES see **ATRIAL NATRIURETIC FACTOR**

ATRIAL NATRIURETIC PEPTIDES RECEPTORS see **RECEPTORS, ATRIAL NATRIURETIC FACTOR**

ATRIAL PREMATURE COMPLEXES

Rhythm annotation and interobserver reproducibility of measures of heart rate variability. Kroll DJ, et al. **Am J Cardiol** 1996 Nov 1;78(9):1055-7

COMPLICATIONS

[Fetal supraventricular tachycardia with anasarca complicating benign extrasystole: treatment with flecainide. Apropos of a case] Hamel P, et al. **Arch Mal Coeur Vaiss** 1997 Mar;90(3):407-10 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Intrapartum fetal atrial bigeminy--diagnostic and therapeutic role of the fetal scalp stimulation test. Wax JR, et al. **Am J Obstet Gynecol** 1996 May;174(5):1649-50

Delineation of premature P waves on four-dimensional electrocardiography, a new display of electrical forces by computer techniques. Morikawa J, et al. **Angiology** 1996 Nov;47(11):1101-6

An irregularly irregular cardiac rhythm in a man with a

pacemaker. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):29–30
ECG of the month. Identity crisis. Ectopic atrial rhythm. Martinez–Lopez JI. **J La State Med Soc** 1996 Dec; 148(12):507–10
ECG of the month. Group beating. Atrial and ventricular premature impulses. Martinez–Lopez JI. **J La State Med Soc** 1997 May;149(5):139–40
ECG of the month. Two–getherness. Atrial premature impulses. Martinez–Lopez JI. **J La State Med Soc** 1996 Aug;148(8):325–8
Pauses and causes. Martinez–Lopez JI. **J La State Med Soc** 1996 Apr;148(4):139–41

ETIOLOGY

Interatrial septal aneurysms and atrial arrhythmias in infants. Miga DE, et al. **Am Heart J** 1996 Oct;132(4):776–8
An irregularly irregular cardiac rhythm in a man with a pacemaker. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):29–30
Incidence and risk factors of guidewire–induced arrhythmia during internal jugular venous catheterization: comparison of marked and plain J–wires. Lee TY, et al. **J Clin Anesth** 1996 Aug;8(5):348–51

PHYSIOPATHOLOGY

Explain the change in PR Interval and bundle branch block pattern with comparably coupled atrial premature beats. Pavri BB, et al. **J Cardiovasc Electrophysiol** 1997 Feb; 8(2):237–9

THERAPY

Intrapartum fetal atrial bigeminy––diagnostic and therapeutic role of the fetal scalp stimulation test. Wax JR, et al. **Am J Obstet Gynecol** 1996 May;174(5):1649–50

VETERINARY

ECG of the month. Sinus arrhythmia with occasional premature atrial complexes. Abbott JA. **J Am Vet Med Assoc** 1997 Apr 1;210(7):900–1

ATRIAL SEPTAL DEFECTS see **HEART SEPTAL DEFECTS, ATRIAL**

ATRIOPEPTIN RECEPTORS see **RECEPTORS, ATRIAL NATRIURETIC FACTOR**

ATRIOPEPTINS see **ATRIAL NATRIURETIC FACTOR**

ATRIOVENTRICULAR BLOCK see **HEART BLOCK**

ATRIOVENTRICULAR BUNDLE see **BUNDLE OF HIS**

ATRIOVENTRICULAR NODAL REENTRY TACHYCARDIA see **TACHYCARDIA, ATRIOVENTRICULAR NODAL REENTRY**

ATRIOVENTRICULAR NODE

Assessment of left ventricular function after radiofrequency and direct current atrioventricular node ablation. Wong J, et al. **Aust N Z J Med** 1996 Feb;26(1):82–8

ABNORMALITIES

The atrioventricular canal defect is the congenital heart disease connecting short rib–polydactyly and oral–facial–digital syndromes [letter; comment] Digilio MC, et al. **Am J Med Genet** 1997 Jan 10;68(1):110–2. Comment on: Am J Med Genet 1994 Nov 20;59(3):365–8.
One–stage repair of truncus arteriosus, CAVC, and TAPVC. Conte S, et al. **Ann Thorac Surg** 1997 Jun;63(6):1781–3
Predicting feasibility of biventricular repair of right–dominant unbalanced atrioventricular canal. van Son JA, et al. **Ann Thorac Surg** 1997 Jun;63(6):1657–63
A new ECG algorithm for the localization of accessory pathways using only the polarity of the QRS complex. Iturralde P, et al. **J Electrocardiol** 1996 Oct;29(4):289–99
Right atrial appendage to right ventricle accessory atrioventricular connection: a case report. Milstein S, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1877–80
Unbalanced atrioventricular septal defects. Drinkwater DC Jr, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):21–5
The two–patch technique for complete atrioventricular canal. Mavroudis C, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):35–43
Intermediate and complete forms of atrioventricular canal. Pearl JM, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan; 9(1):8–20 (21 ref.)
Late results and reoperation after repair of complete and partial atrioventricular canal defect. Permut LC, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):44–54
["Double nodal pathway" as a common electrogenic pathway at the base of first and second degree paroxysmal atrioventricular node and nodal reentrant tachycardia] Tritto M, et al. **Cardiologia** 1996 Oct;41(10):1001–4 (Eng. Abstr.) **(Ita)**
[A comparison of unipolar versus bipolar mapping in the ablation of left–sided accessory atrioventricular conduction pathways] Sousa J, et al. **Rev Port Cardiol** 1997 May; 16(5):449–55, 439 (Eng. Abstr.) **(Por)**

ANATOMY & HISTOLOGY

Therapy of Wolff–Parkinson–White syndrome [letter; comment] Anderson RH. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):787. Comment on: J Cardiovasc Electrophysiol 1996 Jan;7(1):85–93.
The artery of the atrioventricular node: an anatomic study based on 38 injection–dissections. Sow ML, et al. **Surg Radiol Anat** 1996;18(3):183–7

CYTOLOGY

Atrioventricular junctional tissue. Discrepancy between histological and electrophysiological characteristics. McGuire MA, et al. **Circulation** 1996 Aug 1;94(3):571–7
Morphological classification of atrial muscle in the atrioventricular junctional area––3–dimensional reconstruction of serial sections of the human heart. Makishima N, et al. **Jpn Circ J** 1997 Jun;61(6):510–6

DRUG EFFECTS

Effects of verapamil, propranolol, and procainamide on adenosine–induced negative dromotropism in human beings. Lai WT, et al. **Am Heart J** 1996 Oct;132(4):768–75
Stereospecific effect of bupivacaine isomers on atrioventricular conduction in the isolated perfused guinea pig heart. Graf BM, et al. **Anesthesiology** 1997 Feb; 86(2):410–9
Effects of magnesium sulphate on atrioventricular conduction times and surface electrocardiogram in dogs anaesthetized with sevoflurane. Akazawa S, et al. **Br J Anaesth** 1997 Jan;78(1):75–80
Atrioventricular conduction during adenosine–induced hypotension in dogs anaesthetized with sevoflurane. Ishii R, et al. **Br J Anaesth** 1996 Sep;77(3):393–8
Actions of the digitalis analogue strophanthidin on action potentials and L–type calcium current in single cells isolated from the rabbit atrioventricular node. Hancox JC, et al. **Br J Pharmacol** 1996 Jul;118(6):1447–54
Inhibition of L–type calcium current by propafenone in single myocytes isolated from the rabbit atrioventricular node. Hancox JC, et al. **Br J Pharmacol** 1997 May;121(1):7–14
Role of nitric oxide, cyclic GMP and superoxide in inhibition by adenosine of calcium current in rabbit atrioventricular nodal cells. Martynyuk AE, et al. **Cardiovasc Res** 1997 May; 34(2):360–7
Rate–dependent effects of ajmaline and propafenone on atrioventricular conduction. Stark G, et al. **Eur J Pharmacol** 1996 Aug 22;310(1):29–35
The antiarrhythmic effect of verapamil on atrioventricular re–entry in the Wolff–Parkinson–White syndrome: a computer model study. Fleischmann PH, et al. **Int J Biomed Comput** 1996 Apr;41(2):125–36
Developmental effects of d–sotalol on anterograde and retrograde atrioventricular conduction in the rabbit. Case CL, et al. **J Cardiovasc Electrophysiol** 1996 May;7(5):406–14
Effects of 2,3–butanedione monoxime on atrial–atrioventricular nodal conduction in isolated rabbit heart. Cheng Y, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):790–802
Dopaminergic responses in the Fischer 344 rat heart: preserved chronotropic and dromotropic responses with aging. Schwartz JB. **J Gerontol A Biol Sci Med Sci** 1997 Jan;52(1):M36–43
Quantification of rate–dependent effects of verapamil, diltiazem, and digoxin on atrioventricular conduction. Schwarzl I, et al. **J Pharmacol Toxicol Methods** 1996 Dec; 36(4):205–10
Effects of adenosine triphosphate on ventriculoatrial conduction––usefulness and problems in assessment of catheter ablation of accessory pathways. Miyata A, et al. **Jpn Circ J** 1997 Apr;61(4):323–30
Aberrant atrioventricular conduction triggered by antimalarial prophylaxis with mefloquine. Richter J, et al. **Lancet** 1997 Jan 11;349(9045):101–2
How to measure AV nodal refractoriness in the presence of verapamil, amiodarone, digoxin, and diltiazem. Stark G, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):157–64
[Transient atrioventricular conduction 1:1 in a patient with common atrial flutter following the administration of adenosine triphosphate] Falces Salvador C, et al. **Rev Esp Cardiol** 1996 Oct;49(10):767–9 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Measurement of adenylylcyclase activity in the AV nodal region of the canine heart: evidence for inhibition by adenosine and acetylcholine. Sugiyama A, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):734–9

INNERVATION

Selective slow pathway ablation does not alter enhancement of vagal tone on sinus and atrioventricular nodal function. Olsovsky MR, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1289–92
Efferent vagal innervation of the canine atria and sinus and atrioventricular nodes. The third fat pad. Chiou CW, et al. **Circulation** 1997 Jun 3;95(11):2573–84

METABOLISM

Sodium channel distribution within the rabbit atrioventricular node as analysed by confocal microscopy. Petrecca K, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):263–74
Angiotensin II receptor expression in the conduction system and arterial duct of neonatal and adult rat hearts. Bastien NR, et al. **Regul Pept** 1996 May 7;63(1):9–16

PATHOLOGY

Scleroatrophy of the atrioventricular junctional specialized tissue (Lenegre–Lev Disease) in chronic chagas' heart disease. Ramos S, et al. **Acta Cardiol** 1995;50(6):483–7
Morphology of the atrioventricular node in relation to the mechanism of atrioventricular nodal reentry tachycardia––a preliminary report. Kozłowski D, et al. **Folia Morphol (Warsz)** 1996;55(4):353–5
A modified method for examining the cardiac conduction system. Song Y, et al. **Forensic Sci Int** 1997 Apr 18; 86(1–2):135–8
Intrinsic atrioventricular conductive function in horses with a second degree atrioventricular block. Yamaya Y, et al. **J Vet Med Sci** 1997 Mar;59(3):149–51
Anatomy of the atrioventricular junctions with regard to ventricular preexcitation. Anderson RH, et al. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2072–6 (26 ref.)
Electrocardiographic identification of mid–septal accessory pathways in close proximity to the atrioventricular conduction system. Lorga Filho A, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1984–7

PHYSIOLOGY

Similar time–dependent recovery property of fast and slow atrioventricular nodal pathways. Young ML, et al. **Am J Cardiol** 1997 Feb 15;79(4):424–30
NO modulates autonomic effects on sinus discharge rate and AV nodal conduction in open–chest dogs. Elvan A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H263–71
Mechanism of atrioventricular nodal facilitation in the rabbit heart: role of the distal AV node. Fahy GJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2815–25
Regulation by acetylcholine of Ca2+ current in rabbit atrioventricular node cells. Habuchi Y, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2274–82
Effect of phasic vagal stimulation and atrial pacing site on atrioventricular conduction time. Igel DA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2289–98
Electrotonic modulation of electrical activity in rabbit atrioventricular node myocytes. Spitzer KW, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H767–76
A novel guinea pig heart model for studying AV nodal conduction and triggered activity in vivo. Xu J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1850–7
Atrial inputs as determinants of atrioventricular nodal conduction: re–evaluation and new concepts. Scherlag BJ, et al. **Cardiologia** 1995 Oct;40(10):753–61
Modulation of atrioventricular nodal function by metabolic and allosteric regulators of endogenous adenosine in guinea pig heart. Dennis DM, et al. **Circulation** 1996 Nov 15; 94(10):2551–9
Atrioventricular junctional tissue. Discrepancy between histological and electrophysiological characteristics. McGuire MA, et al. **Circulation** 1996 Aug 1;94(3):571–7
Unmasking of fast and slow atrioventricular nodal pathways by successful radiofrequency ablation of two accessory atrioventricular connections. Centurión OA, et al. **Clin Cardiol** 1997 Jan;20(1):75–8
Multisolutional clustering and quantization algorithm (MCQ). Dvorchik I, et al. **Comput Biol Med** 1996 Sep;26(5):439–50
Multiple mechanisms of successful slow–pathway catheter ablation of common atrioventricular nodal re–entrant tachycardia. Brignole M, et al. **Eur Heart J** 1997 Jun; 18(6):985–93
Dual AV node pathway physiology in patients with Wolff–Parkinson–White syndrome. Chen YJ, et al. **Int J Cardiol** 1996 Oct 25;56(3):275–81
Electrophysiologic properties of the atrioventricular node in pediatric patients. Cohen MI, et al. **J Am Coll Cardiol** 1997 Feb;29(2):403–7
Electrophysiology of the right anterior approach to the atrioventricular node: studies in vivo and in the isolated perfused dog heart. Antz M, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):47–61
High–resolution fluorescent imaging does not reveal a distinct atrioventricular nodal anterior input channel (fast pathway) in the rabbit heart during sinus rhythm. Efimov IR, et al. **J Cardiovasc Electrophysiol** 1997 Mar; 8(3):295–306
Electrophysiology of the atrio–AV nodal inputs and exits in the normal dog heart: radiofrequency ablation using an epicardial approach. Hirao K, et al. **J Cardiovasc Electrophysiol** 1997 Aug;8(8):904–15
Quantification of rate–dependent effects of verapamil, diltiazem, and digoxin on atrioventricular conduction. Schwarzl I, et al. **J Pharmacol Toxicol Methods** 1996 Dec; 36(4):205–10
Electrophysiological properties of morphologically distinct cells isolated from the rabbit atrioventricular node. Munk AA, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):801–18
Assessment of atrioventricular nodal electrophysiological characteristics after radiofrequency catheter ablation of the slow pathway in atrioventricular nodal reentrant tachycardia––3–month follow up. Enjoji Y, et al.

Jpn Circ J 1996 Nov;60(11):853–60

Electrophysiology of the A–V node in relation to A–V nodal reentry. Janse MJ, et al. **Jpn Heart J** 1996 Sep;37(5):785–91 (9 ref.)

Modification of atrioventricular nodal electrophysiology by selective radiofrequency delivery on the anterior or posterior approaches. Chorro FJ, et al.
Pacing Clin Electrophysiol 1997 May;20(5 Pt 1):1261–73

The importance of different atrioventricular delay for left ventricular filling in sequential pacing: clinical implications. Modena MG, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 1):1595–604

Effect of varying atrial sensitivity, AV interval, and detection algorithm on automatic mode switching. Palma EC, et al.
Pacing Clin Electrophysiol 1996 Nov;19(11 Pt 2):1735–9

[Atrioventricular conduction time in premature infants is about half of that in adults] van Wezel-Meijler G, et al. **Ned Tijdschr Geneeskd** 1997 Feb 1;141(5):244–7 (Eng. Abstr.) **(Dut)**

[The atrioventricular node: the ultimate "black box"?] Della Bella P. **Cardiologia** 1997 May;42(5):445–6 **(Ita)**

[Dual atrioventricular nodal pathways] Usui M, et al.
Ryoikibetsu Shokogun Shirizu 1996;(12):432–5 (20 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Comparison of atrial–His intervals in patients with and without dual atrioventricular nodal physiology and atrioventricular nodal reentrant tachycardia. Bogun F, et al. **Am Heart J** 1996 Oct;132(4):758–64

Evidence of three clinical subgroups in patients with dual atrioventricular nodal pathways. Serita T, et al.
Am J Med Sci 1997 Jul;314(1):11–6

On the mechanism(s) of atrioventricular nodal transmission in atrial fibrillation. Meijler FL, et al. **Cardiologia** 1997 Apr; 42(4):375–84 (83 ref.)

QRS polarity on 12-lead surface ECG. A criterion for the differentiation of right and left posteroseptal accessory atrioventricular pathways. Diker E, et al. **Cardiology** 1997 Jul–Aug;88(4):328–32

Mechanism of ventricular rate control after radiofrequency modification of atrioventricular conduction in patients with atrial fibrillation. Markowitz SM, et al. **Circulation** 1996 Dec 1;94(11):2856–64

Automatic arrhythmia identification using analysis of the atrioventricular association. Application to a new generation of implantable defibrillators. Participating Centers of the Automatic Recognition of Arrhythmia Study Group. Nair M, et al. **Circulation** 1997 Feb 18; 95(4):967–73

Electrocardiographic manifestations of dual atrioventricular node conduction during sinus rhythm. Fisch C, et al.
J Am Coll Cardiol 1997 Apr;29(5):1015–22

The influence of atrioventricular conduction and heart rate on the pulmonary venous flow pattern. Steen T, et al.
J Am Soc Echocardiogr 1996 Mar–Apr;9(2):129–34

Alternation of atrioventricular nodal conduction time during atrioventricular reentrant tachycardia: are dual pathways necessary? Amellal F, et al. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):943–51

Wide QRS tachycardia with atrioventricular dissociation and an HV interval of 60 msec: what is the tachycardia mechanism? Bogun F, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):481–4

An unusual pattern of AV conduction. Fisch C.
J Cardiovasc Electrophysiol 1996 Mar;7(3):277

Adenosine-sensitive atrial reentrant tachycardia originating from the atrioventricular nodal transitional area. Iesaka Y, et al. **J Cardiovasc Electrophysiol** 1997 Aug;8(8):854–64

Variants of preexcitation--specialized atriofascicular pathways, nodofascicular pathways, and fasciculoventricular pathways: electrophysiologic findings and target sites for radiofrequency catheter ablation. Kottkamp H, et al. **J Cardiovasc Electrophysiol** 1996 Oct; 7(10):916–30

Symptomatic atrioventricular block in an atriofascicular pathway inserting into the left bundle branch without apparent atrioventricular node function. Mecca A, et al.
J Cardiovasc Electrophysiol 1997 Aug;8(8):922–6

AV nodal function during atrial fibrillation: the role of electrotonic modulation of propagation. Meijler FL, et al.
J Cardiovasc Electrophysiol 1996 Sep;7(9):843–61 (59 ref.)

Electrocardiographic patterns and results of radiofrequency catheter ablation of clockwise type I atrial flutter. Saoudi N, et al. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):931–42

Endoscopy-assisted radiofrequency ablation around the coronary sinus ostium in dogs: its effects on atrioventricular nodal properties and ventricular response during atrial fibrillation. Tanaka K, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1063–73

Persistence of single echo beat inducibility after selective ablation of the slow pathway in patients with atrioventricular nodal reentrant tachycardia: relationship to the functional properties of the atrioventricular node and clinical implications. Tondo C, et al.
J Cardiovasc Electrophysiol 1996 Aug;7(8):689–96

Similar recovery properties in fast and slow atrioventricular nodal pathways. Young ML, et al. **J Electrocardiol** 1996; 29 Suppl:226

Effect of radiofrequency catheter ablation of the slow pathway on the atrioventricular node. Enjoji Y, et al.
Jpn Heart J 1996 Jul;37(4):471–81

Is vagal innervation to the atrioventricular node impaired after radiofrequency ablation of the slow atrioventricular nodal pathway? Kautzner J, et al.
Pacing Clin Electrophysiol 1996 Nov;19(11 Pt 2):1993–7

Use of automatic mode change between DDD and AAI to facilitate native atrioventricular conduction in patients with sick sinus syndrome or transient atrioventricular block. Mayumi H, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1740–7

Atrioventricular node reentry: physiology and radiofrequency ablation. Prystowsky EN.
Pacing Clin Electrophysiol 1997 Feb;20(2 Pt 2):552–71 (53 ref.)

[Atrial sensing and atrioventricular synchrony in single lead VDD pacemakers. Can the appearance of atrial undersensing be predicted?] Wiegand UK, et al.
Z Kardiol 1997 Feb;86(2):95–104 (Eng. Abstr.) **(Ger)**

[Let's modulate the AV modulation (editorial; comment)] Della Bella P. **Cardiologia** 1995 Dec;40(12):887–8. Comment on: Cardiologia 1995 Dec;40(12):927–40. **(Ita)**

[Electrophysiological analysis of atrioventricular and intraventricular conduction in bi- and tri-fascicular blocks] Ducceschi V 2nd, et al. **Minerva Cardioangiol** 1997 Mar; 45(3):87–93 (Eng. Abstr.) **(Ita)**

[Transient atrioventricular conduction 1:1 in a patient with common atrial flutter following the administration of adenosine triphosphate] Falces Salvador C, et al.
Rev Esp Cardiol 1996 Oct;49(10):767–9 (Eng. Abstr.) **(Spa)**

SURGERY

Long-term pacemaker dependency after radiofrequency ablation of the atrioventricular junction. Deharo JC, et al.
Am Heart J 1997 May;133(5):580–4

Atrial rhythm after atrioventricular junctional ablation. Mitchell MA, et al. **Am J Cardiol** 1996 Dec 1;78(11):1251–4

Predicting feasibility of biventricular repair of right-dominant unbalanced atrioventricular canal. van Son JA, et al. **Ann Thorac Surg** 1997 Jun;63(6):1657–63

Atrioventricular junctional ablation and modification for atrial fibrillation. Homoud M, et al. **Cardiol Clin** 1996 Nov; 14(4):555–67 (50 ref.)

DDD(R) pacing with automatic mode switch in patients with paroxysmal atrial fibrillation following AV nodal ablation. Schuchert A, et al. **Cardiology** 1997 Jul–Aug;88(4):323–7

Cost comparison of radiofrequency modification and ablation of the atrioventricular junction in patients with chronic atrial fibrillation. Knight BP, et al. **Circulation** 1997 Sep 2;96(5):1532–6

Transcatheter laser ablation of atrioventricular nodal reentrant tachycardia--do we really need a newer energy source? [editorial; comment] Borbola J. **Eur Heart J** 1997 Mar;18(3):357–8. Comment on: Eur Heart J 1997 Mar;18(3):487–95.

Laser catheter coagulation of atrial myocardium for ablation of atrioventricular nodal reentrant tachycardia. First clinical experience [see comments] Weber HP, et al.
Eur Heart J 1997 Mar;18(3):487–95. Comment in: Eur Heart J 1997 Mar;18(3):357–8.

Selective ablation of slow atrioventricular node conduction pathways: how safe is the anatomic posterior approach? [letter; comment] Lauer MR, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1432–3. Comment on: J Am Coll Cardiol 1996 Apr;27(5):1098–105.

Long-term follow-up after radiofrequency modification of the atrioventricular node in patients with atrial fibrillation. Morady F, et al. **J Am Coll Cardiol** 1997 Jan;29(1):113–21

Radiofrequency ablation of concealed left free-wall accessory pathways without coronary sinus catheterization: results in 100 consecutive patients. Brugada J, et al.
J Cardiovasc Electrophysiol 1997 Mar;8(3):249–53

Radiofrequency catheter ablation of the anterosuperior and posteroinferior atrial approaches to the AV node for treatment of AV nodal reentrant tachycardia: techniques for selective ablation of "fast" and "slow" AV node pathways. Kottkamp H, et al.
J Cardiovasc Electrophysiol 1997 Apr;8(4):451–68 (64 ref.)

Randomized comparison of two techniques for titrating power during radiofrequency ablation of accessory pathways. Strickberger SA, et al.
J Cardiovasc Electrophysiol 1996 Sep;7(9):795–801

Microwave catheter ablation of the atrioventricular junction in closed-chest dogs. Lin JC, et al.
Med Biol Eng Comput 1996 Jul;34(4):295–8

Slow AV nodal pathway ablation utilizing a unique temperature controlled radiofrequency energy system. Epstein LM, et al. **Pacing Clin Electrophysiol** 1997 Mar; 20(3 Pt 1):664–70

Safety of slow pathway ablation in patients with long PR interval: further evidence of fast and slow pathway interaction. Natale A, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1698–703

Lack of evidence of areas of slow conduction early after radiofrequency current application at porcine atrial myocardium. Paul T, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):2009–13

Initial and long-term evaluation of escape rhythm after radiofrequency ablation of the AV junction in 50 patients. Piot O, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1988–92

Mapping guided laser catheter ablation of the atrioventricular conduction in dogs. Weber HP, et al.
Pacing Clin Electrophysiol 1996 Feb;19(2):176–87

Selective catheter ablation of the slow atrioventricular nodal pathway for atrial fibrillation. Okreglicki AM, et al.
S Afr Med J 1997 Jun;87 Suppl 3:C147–8

Unbalanced atrioventricular septal defects. Drinkwater DC Jr, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):21–5

The two-patch technique for complete atrioventricular canal. Mavroudis C, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):35–43

Intermediate and complete forms of atrioventricular canal. Pearl JM, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan; 9(1):8–20 (21 ref.)

Late results and reoperation after repair of complete and partial atrioventricular canal defect. Permut LC, et al.
Semin Thorac Cardiovasc Surg 1997 Jan;9(1):44–54

Radiofrequency catheter ablation of accessory pathways and modification of atrioventricular node in children and adolescents. Celiker A, et al. **Turk J Pediatr** 1996 Oct–Dec; 38(4):467–75

[Ventricular fibrillation after radiofrequency ablation of the atrioventricular node] Kouakam C, et al.
Arch Mal Coeur Vaiss 1997 Mar;90(3):411–4 (Eng. Abstr.) **(Fre)**

[Modulation of atrioventricular conduction in patients with atrial fibrillation or flutter. Immediate and long-term results (see comments)] Carbucicchio C, et al. **Cardiologia** 1995 Dec;40(12):927–40 (Eng. Abstr.). Comment in: Cardiologia 1995 Dec;40(12):887–8. **(Ita)**

[Let's modulate the AV modulation (editorial; comment)] Della Bella P. **Cardiologia** 1995 Dec;40(12):887–8. Comment on: Cardiologia 1995 Dec;40(12):927–40. **(Ita)**

[Catheter ablation of atrioventricular junction] Pachón Mateos JC, et al. **Arq Bras Cardiol** 1996 Mar;66 Suppl 1:3–10 (45 ref.) **(Por)**

[Surgical treatment of an anomaly of the conduction system in a case of supraventricular paroxysmal tachycardia with WPW syndrome resistant to four conventional antiarrhythmic agents] Mesihović H, et al. **Med Arh** 1996; 50(1–2):35–7 (Eng. Abstr.) **(Scr)**

ULTRASONOGRAPHY

Dilated coronary sinus in the fetus: misinterpretation as an atrioventricular canal defect. Park JK, et al.
Ultrasound Obstet Gynecol 1997 Aug;10(2):126–9

ULTRASTRUCTURE

Angiotensin II receptor expression in the conduction system and arterial duct of neonatal and adult rat hearts. Bastien NR, et al. **Regul Pept** 1996 May 7;63(1):9–16

ATROCITIES see **VIOLENCE**

ATROPA BELLADONNA see **BELLADONNA**

ATROPHY

Decreased cortical glucose metabolism correlates with hippocampal atrophy in Alzheimer's disease as shown by MRI and PET. Yamaguchi S, et al.
J Neurol Neurosurg Psychiatry 1997 Jun;62(6):596–600

CHEMICALLY INDUCED

Effects of pneumadin (PNM) on the adrenal glands. 6. Further studies on the inhibitory effect of PNM on dexamethasone-induced atrophy of the rat adrenal cortex. Markowska A, et al. **Histol Histopathol** 1997 Jul; 12(3):677–82

COMPLICATIONS

Peculiar snoring in patients with multiple system atrophy: its sound source, acoustic characteristics, and diagnostic significance. Kakitsuba N, et al.
Ann Otol Rhinol Laryngol 1997 May;106(5):380–4

Congenital cerebellar ataxia, mental retardation, and atrophic retinal lesions in two brothers [letter] Ferri R, et al.
J Neurol Neurosurg Psychiatry 1996 Oct;61(4):424–5

DRUG THERAPY

Variations in axial, proximal, and distal motor response to L-dopa in multisystem atrophy and Parkinson's disease. Fetoni V, et al. **Clin Neuropharmacol** 1997 Jun;20(3):239–44

ETIOLOGY

[Atrophy of the oro-pharyngeal mucosa caused by vitamin B12 and folic acid deficiency. Etiopathologic aspects and clinico-therapeutic problems] Bottero A, et al.
Minerva Stomatol 1997 Jul–Aug;46(7–8):359–74 (99 ref.) (Eng. Abstr.) **(Ita)**

GENETICS

Lack of expansion of cytosine adenine guanine trinucleotide repeat in the dentatorubral and pallidoluysian atrophy gene in Swedish schizophrenic patients. Jönsson E, et al.
Biol Psychiatry 1996 Aug 1;40(3):228–9

DRPLA gene (atrophin-1) sequence and mRNA expression in human brain. Margolis RL, et al.
Brain Res Mol Brain Res 1996 Mar;36(2):219–26

Congenital cerebellar ataxia, mental retardation, and atrophic retinal lesions in two brothers [letter] Ferri R, et al.

ATROPHY

J Neurol Neurosurg Psychiatry 1996 Oct;61(4):424–5
Dentatorubral–pallidoluysian atrophy. Clinical features of a five–generation Danish family. Nielsen JE, et al. **Mov Disord** 1996 Sep;11(5):533–41

PATHOLOGY

Myonuclear loss in atrophied soleus muscle fibers. Hikida RS, et al. **Anat Rec** 1997 Mar;247(3):350–4
Thymus atrophy and changes in thymocyte subpopulations of BN rats with mercury–induced renal autoimmune disease. Kosuda LL, et al. **Autoimmunity** 1996;23(2):77–89
Frontal cortical atrophy and negative symptoms in patients with chronic alcohol dependence. Rosse RB, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):280–2
Mitochondrial respiratory chain function in multiple system atrophy. Gu M, et al. **Mov Disord** 1997 May;12(3):418–22
Magnetic brain stimulation in multiple system atrophy. Wenning GK, et al. **Mov Disord** 1997 May;12(3):452–3

PHYSIOPATHOLOGY

Peculiar snoring in patients with multiple system atrophy: its sound source, acoustic characteristics, and diagnostic significance. Kakitsuba N, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):380–4
Lack of expansion of cytosine adenine guanine trinucleotide repeat in the dentatorubral and pallidoluysian atrophy gene in Swedish schizophrenic patients. Jönsson E, et al. **Biol Psychiatry** 1996 Aug 1;40(3):228–9
Focal cortical atrophy syndromes. Black SE. **Brain Cogn** 1996 Jul;31(2):188–229 (207 ref.)
Congenital cerebellar ataxia, mental retardation, and atrophic retinal lesions in two brothers [letter] Ferri R, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):424–5
Progressive biparietal atrophy: an atypical presentation of Alzheimer's disease. Ross SJ, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):388–95
Cerebellar atrophy and prognosis after temporal lobe resection. Specht U, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):501–6
Migration of the anterior segment following anterior commissure advancement: a case report. Rosen CA, et al. **J Voice** 1996 Dec;10(4):405–9
Sensory and motor evoked potentials in multiple system atrophy: a comparative study with Parkinson's disease. Abbruzzese G, et al. **Mov Disord** 1997 May;12(3):315–21
Dentatorubral–pallidoluysian atrophy. Clinical features of a five–generation Danish family. Nielsen JE, et al. **Mov Disord** 1996 Sep;11(5):533–41
Sensorimotor learning in three cerebellar mutant mice. Lalonde R, et al. **Neurobiol Learn Mem** 1996 Mar; 65(2):113–20
A mild form of infantile isolated sulphite oxidase deficiency. Barbot C, et al. **Neuropediatrics** 1995 Dec;26(6):322–4

SURGERY

Management of facial contour deformities with deepithelialized lateral intercostal free flap. Badran HA, et al. **Ann Plast Surg** 1996 Jul;37(1):94–101; discussion 101–5

THERAPY

Magnetic brain stimulation in multiple system atrophy. Wenning GK, et al. **Mov Disord** 1997 May;12(3):452–3

ATROPINE

ADMINISTRATION & DOSAGE

Atropine premedication attenuates heart rate variability during high thoracic epidural anesthesia. Kawamoto M, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1132–7
Nervous control of the spleen in the red–blooded Antarctic fish, Pagothenia borchgrevinki. Nilsson S, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R599–604
Intramuscular atropine sulfate in children: comparison of injection sites. Sullivan KJ, et al. **Anesth Analg** 1997 Jan; 84(1):54–8
The effects of reversal of neuromuscular blockade on autonomic control in the perioperative period. van Vlymen JM, et al. **Anesth Analg** 1997 Jan;84(1):148–54
Pharmacokinetics of atropine in dogs after i.m. injection with newly developed dry/wet combination autoinjectors containing HI 6 or HLö 7. Thiermann H, et al. **Arch Toxicol** 1996;70(5):293–9
Sinus node recovery time assessment revisited: role of pharmacologic blockade of the autonomic nervous system. Bergfeldt L, et al. **J Cardiovasc Electrophysiol** 1996 Feb; 7(2):95–101
Medical treatment of idiopathic hypertrophic pyloric stenosis: should we marinate or slice the "olive"? [editorial] Rudolph CD. **J Pediatr Gastroenterol Nutr** 1996 Nov; 23(4):399–401
Plasma concentration following oral and intramuscular atropine in children and their clinical effects. Gervais HW, et al. **Paediatr Anaesth** 1997;7(1):13–8
Comparison of the effect of a high and low dose of atropin on the ultrastructure of the tracheal epithelium. Konrádová V, et al. **Respiration** 1996;63(3):150–4

ADVERSE EFFECTS

Angle closure glaucoma complicating systemic atropine use in the cardiac catheterization laboratory. Mandak JS, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):262–4
Take care in use of atropine [letter] Means C, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1840–1
Medication–induced adynamic ileus. Beall DP, et al. **Md Med J** 1996 May;45(5):415–6
Interventions during transport [letter; comment] [published erratum appears in Pediatr Emerg Care 1997 Jun;13(3):245] Harris EM. **Pediatr Emerg Care** 1996 Oct;12(5):390. Comment on: Pediatr Emerg Care 1996 Feb;12(1):23–6.
Atrioventricular block after administration of atropine in patients following cardiac transplantation. Brunner–La Rocca HP, et al. **Transplantation** 1997 Jun 27;63(12):1838–9

ANALOGS & DERIVATIVES see ATROPINE DERIVATIVES

ANALYSIS

Determination of diphenoxylate hydrochloride and atropine sulfate in combination drug formulations by liquid chromatography. Lehr GJ. **J AOAC Int** 1996 Nov–Dec; 79(6):1288–93

ANTAGONISTS & INHIBITORS

Glucose attenuation of atropine–induced deficits in paradoxical sleep and memory. Stone WS, et al. **Brain Res** 1995 Oct 2;694(1–2):133–8
Tachykinin receptors mediate atropine–resistant rat duodenal reflex contractions in vivo. Giuliani S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep; 354(3):327–35

BIOSYNTHESIS

[How is atropine made in belladonna? New findings on the regulation of plant secondary metabolites] Dräger B. **Pharm Unserer Zeit** 1996 Sep;25(5):242–9 (35 ref.) **(Ger)**

BLOOD

Development and validation of an LC/MS/MS method for the determination of L–hyoscyamine in human plasma. Xu A, et al. **J Pharm Biomed Anal** 1995 Dec;14(1–2):33–42
Serum anticholinergic activity and behavior following atropine sulfate administration in the rat. O'Hare E, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):151–4

CONTRAINDICATIONS

Disregard the small print? [letter] Moore EW, et al. **Eur J Anaesthesiol** 1997 Jan;14(1):107–8

DIAGNOSTIC USE

Early chronotropic incompetence predicts the need for atropine during dobutamine stress echocardiography. Hepner AM, et al. **Am J Cardiol** 1997 Feb 1;79(3):365–6
Assessment of the functional significance of coronary artery stenosis by dobutamine–atropine stress echocardiography. Ho YL, et al. **Cardiology** 1997 Jul–Aug;88(4):386–92
Dipyridamole and dobutamine–atropine stress echocardiography in the diagnosis of coronary artery disease. Comparison with exercise stress test, analysis of agreement, and impact of antianginal treatment. San Román JA, et al. **Chest** 1996 Nov;110(5):1248–54
Cardiac imaging for risk stratification with dobutamine–atropine stress testing in patients with chest pain. Echocardiography, perfusion scintigraphy, or both? Geleijnse ML, et al. **Circulation** 1997 Jul 1;96(1):137–47
Safety and accuracy of dobutamine–atropine stress echocardiography for the detection of residual stenosis of the infarct–related artery and multivessel disease during the first week after acute myocardial infarction. Smart SC, et al. **Circulation** 1997 Mar 18;95(6):1394–401
Effects of antianginal therapy with a calcium antagonist and nitrates on dobutamine–atropine stress echocardiography. Comparison with exercise electrocardiography [see comments] Dodi C, et al. **Eur Heart J** 1997 Feb;18(2):242–7 . Comment in: Eur Heart J 1997 Feb;18(2):180–1.
Prognostic value of dobutamine–atropine stress echocardiography for peri–operative and late cardiac events in patients scheduled for vascular surgery. Poldermans D, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D86–96 (56 ref.)
Effects of combined beta–adrenergic and cholinergic blockade on the initial ventilatory response to exercise in humans. Ishida K, et al. **Eur J Appl Physiol** 1997; 76(3):230–5
Safety and feasibility of dobutamine–atropine stress testing in hypertensive patients. Elhendy A, et al. **Hypertension** 1997 Jun;29(6):1232–9
Detection of patients with restenosis after PTCA by dipyridamole–atropine–stress–echocardiography. Scherhag AW, et al. **Int J Card Imaging** 1997 Apr;13(2):115–23
Transesophageal dobutamine–atropine stress echocardiography: diagnostic accuracy for coronary stenosis detection and localization. Shahi M, et al. **Int J Cardiol** 1996 Oct 11;56(2):185–92
Effect of an additional atropine injection during dobutamine infusion for myocardial SPET. Caner B, et al. **Nucl Med Commun** 1997 Jun;18(6):567–73
Cycloplegic refractions in Japanese children: a comparison of atropine and cyclopentolate. Kawamoto K, et al. **Ophthalmologica** 1997;211(2):57–60
Measurement of cardiac vagal tone in cattle: a possible aid to the diagnosis of BSE [letter] Little CJ, et al. **Vet Rec** 1996 Nov 23;139(21):527–8
[Value of dipyridamole–atropine stress echocardiography for detection of patients with restenosis after PTCA] Scherhag A, et al. **Z Kardiol** 1996 Aug;85(8):570–9 (Eng. Abstr.) **(Ger)**
[Comparison of the echo–dobutamine–atropine test and ergometric test in the diagnosis of coronary disease] Sarullo FM, et al. **G Ital Cardiol** 1996 Nov;26(11):1279–90 (Eng. Abstr.) **(Ita)**
[The exercise test with atropine] Variola A, et al. **G Ital Cardiol** 1997 Mar;27(3):255–62 (Eng. Abstr.) **(Ita)**

METABOLISM

Enzymology of oxidation of tropic acid to phenylacetic acid in metabolism of atropine by Pseudomonas sp. strain AT3. Long MT, et al. **J Bacteriol** 1997 Feb;179(4):1044–50

PHARMACOKINETICS

Pharmacokinetics of atropine in dogs after i.m. injection with newly developed dry/wet combination autoinjectors containing HI 6 or HLö 7. Thiermann H, et al. **Arch Toxicol** 1996;70(5):293–9

PHARMACOLOGY

Effects of alpha–MSH and cholinergic agents on cGMP and IP3 levels in rat brain slices. Lezcano NE, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(3):193–201
Electrophoretic analysis of rat parotid salivary protein composition: investigation of the parasympathetic atropine–resistant secretion. Ekström J, et al. **Acta Physiol Scand** 1996 Jan;156(1):75–9
Cardiac electrophysiologic measurements in dogs before and after intravenous administration of atropine and propranolol. Wright KN, et al. **Am J Vet Res** 1996 Dec; 57(12):1695–701
Primacy and recency effects in rhesus monkeys (Macaca mulatta) using a serial probe recognition task: II. Effects of atropine sulfate. Castro CA. **Behav Neurosci** 1997 Aug; 111(4):676–82
Anticholinergic effects on acquisition of place learning in the Morris water task: spatial mapping deficit or inability to inhibit nonplace strategies? Day LB, et al. **Behav Neurosci** 1996 Oct;110(5):998–1005
Effects of atropine and loperamide on the agitating force and GI transit time in dogs in drug absorption studies. Katori N, et al. **Biol Pharm Bull** 1996 Oct;19(10):1338–40
Atropine decreases drinking but not feeding and induces less hypothalamic acetylcholine release in diabetic rats. Murzi E, et al. **Brain Res** 1997 Mar 28;752(1–2):184–8
Glucose attenuation of atropine–induced deficits in paradoxical sleep and memory. Stone WS, et al. **Brain Res** 1995 Oct 2;694(1–2):133–8
Regulation of tyrosine hydroxylase gene expression by the m1 muscarinic acetylcholine receptor in rat pheochromocytoma cells. Chen Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):42–54
Should atropine be routine in children? [letter; comment] Guyton DC, et al. **Can J Anaesth** 1996 Jul;43(7):754–5. Comment on: Can J Anaesth 1995 Aug;42(8):724–9.
Heart rate and cardiac output after atropine in anaesthetised infants and children. McAuliffe G, et al. **Can J Anaesth** 1997 Feb;44(2):154–9
Atropine and neuromuscular fade in the mouse phrenic nerve–diaphragm. Storella RJ, et al. **Can J Anaesth** 1996 Feb;43(2):169–71
Functional responses of the rat isolated seminal vesicle to electrical field stimulation: a pharmacological analysis. Gokhale SD, et al. **Clin Exp Pharmacol Physiol** 1996 Jan; 23(1):22–9
Cholinergic factors are not involved in the delayed diet passage from the crop of chicks given medium chain triacylglycerol. Mabayo RT, et al. **Comp Biochem Physiol A Physiol** 1997 Feb;116(2):89–92
Effect of cholecystokinin octapeptide and atropine on human colonic motility, tone, and transit. O'Brien MD, et al. **Dig Dis Sci** 1997 Jan;42(1):26–33
Gastric lipase secretion after sham feeding and cholinergic blockade. Wøjdemann M, et al. **Dig Dis Sci** 1997 May; 42(5):1070–5
Atropine reduces but does not eliminate the age–related decline in perfusion outflow facility in monkeys. Kiland JA, et al. **Exp Eye Res** 1997 May;64(5):831–5
Peroxidase and kallikrein in atropine–resistant secretion of submandibular saliva on parasympathetic nerve stimulation in anaesthetized rats. Garrett JR, et al. **Exp Physiol** 1996 May;81(3):361–6
Effects of beta–blockade and atropine on ischemic responses in left ventricular regions subtending coronary stenosis during dobutamine stress echocardiography. Chen L, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1866–76
Further cholinergic aspects of carotid body chemotransduction of hypoxia in cats. Fitzgerald RS, et al. **J Appl Physiol** 1997 Mar;82(3):819–27
Spectral analysis of intercycle heart fluctuations in the diethyl–ether–anaesthetized or pithed rat treated with l–hyoscyamine. Bernardi M, et al. **J Auton Pharmacol** 1997

Feb;17(1):27–34
The antilesion actions of anticholinergic agents on ethanol–induced injury in rat stomachs: the importance of gastric vascular integrity and tonicity. Ko JK, et al. **J Auton Pharmacol** 1996 Jun;16(3):117–24
Muscarinic receptor subtypes in the submandibular gland and the urinary bladder of the rabbit: in vivo and in vitro functional comparisons of receptor antagonists. Tobin G. **J Auton Pharmacol** 1995 Dec;15(6):451–63
Effect of atropine on milk protein yield by dairy cows with different beta–lactoglobulin phenotypes. Prosser CG, et al. **J Dairy Sci** 1997 Jul;80(7):1281–7
Central cholinergic regulation of pancreatic polypeptide secretion in conscious dogs. Okita M, et al. **J Endocrinol** 1997 Aug;154(2):311–7
Effect of activated charcoal and atropine on absorption and/or exsorption of organophosphorus compounds in rats. Tomimaru A, et al. **J Pharm Pharmacol** 1996 Apr; 48(4):351–6
Mechanisms of the atrium–specific positive inotropic activities of quinidine– and atropine–like agents in rats. Deng XF, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):322–9
Cholinergic autoantibodies in sinus–node dysfunction [letter] Ferrari I, et al. **Lancet** 1997 Jul 26;350(9073):262–3
Pharmacology of muscarinic receptor subtypes constitutively activated by G proteins. Burstein ES, et al. **Mol Pharmacol** 1997 Feb;51(2):312–9
Influence of atropine on the cardiovascular effects of noradrenaline and tyramine in elder volunteers. Poller U, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):100–6
Potassium, but not atropine–stimulated cortical acetylcholine efflux, is reduced in aged rats. Moore H, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):565–71
Stereoselective effects of (R)– and (S)–zacopride on cognitive performance in a spatial navigation task in rats. Fontana DJ, et al. **Neuropharmacology** 1996 Mar;35(3):321–7
Stereoselective increase in cholinergic transmission by R–(+)–hyoscyamine. Ghelardini C, et al. **Neuropharmacology** 1997 Mar;36(3):281–94
Atropine inhibits associative potentiation in the hippocampus. Sokolov MV, et al. **Neurosci Behav Physiol** 1997 May–Jun; 27(3):225–8
Increased beta–amyloid precursor protein mRNA in the rat cerebral cortex and hippocampus after chronic systemic atropine treatment. Beach TG, et al. **Neurosci Lett** 1996 May 24;210(1):13–6
The role of cholinergic systems in the expression of morphine withdrawal. Sharif SI, et al. **Neurosci Res** 1996 Jun; 25(2):155–60
The effect of pancreatic denervation and atropine on the cholecystokinin–induced pancreatic exocrine response. Berry SM, et al. **Pancreas** 1996 Jan;12(1):84–91
Serum anticholinergic activity and behavior following atropine sulfate administration in the rat. O'Hare E, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):151–4
Alternating lever cyclic–ratio schedule analysis of the effects of atropine sulfate. Weldon DT, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):753–7
Preventive effect of atropine on indomethacin–induced gastrointestinal mucosal and vascular damage in rats. Karádi O, et al. **Pharmacology** 1996 Jan;52(1):46–55
Cardiopulmonary effects of combinations of medetomidine hydrochloride and atropine sulphate in dogs. Alibhai HI, et al. **Vet Rec** 1996 Jan 6;138(1):11–3
Increased airway pressure in response to xylazine is inhibited by both atipamezole and atropine in sheep. Papazoglou L, et al. **Zentralbl Veterinarmed A** 1994 Sep;41(7):568–72

POISONING

Anticholinergic poisoning in colicky infants treated with hyoscyamine sulfate. Myers JH, et al. **Am J Emerg Med** 1997 Sep;15(5):532–5
Hyoscyamus falezlez C: a poisonous plant of north Africa. el Bahri L, et al. **Vet Hum Toxicol** 1996 Oct;38(5):378–9 (19 ref.)

THERAPEUTIC USE

Efficacy of atropine sulfate in combination with albuterol in the treatment for acute asthma. Díaz JE, et al. **Acad Emerg Med** 1997 Feb;4(2):107–13
Atropine as a treatment of diarrhea after celiac plexus block [letter; comment] Cataldo R, et al. **Anesth Analg** 1996 Nov; 83(5):1131–2. Comment on: Anesth Analg 1996 Jan;82(1):205–7.
Atropine penalisation versus occlusion as the primary treatment for amblyopia. Foley–Nolan A, et al. **Br J Ophthalmol** 1997 Jan;81(1):54–7
Central antiemetic effect of atropine: our personal experience [letter] Ramaioli F, et al. **Can J Anaesth** 1996 Oct; 43(10):1079
Value of sedative premedication in female sterilization via minilaparotomy: a prospective study of two local anaesthesia regimen. Ruminjo JK, et al. **East Afr Med J** 1995 Oct;72(10):678–83
A prospective, double–blind trial of L–hyoscyamine versus glucagon for the inhibition of small intestinal motility during ERCP. Lahoti S, et al. **Gastrointest Endosc** 1997 Aug;46(2):139–42
Use of atropine during endoscopy: benefit during photodynamic therapy [letter] Van de Mierop F, et al. **Gastrointest Endosc** 1996 Oct;44(4):512
The effectiveness of 0.5% atropine in controlling high myopia in children. Chou AC, et al. **J Ocul Pharmacol Ther** 1997 Feb;13(1):61–7
Management and ultrasonographic appearance of infantile hypertrophic pyloric stenosis with intravenous atropine sulfate. Nagita A, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):172–7
Atropine versus cyclopentolate plus tropicamide in esodeviations. Goldstein JH, et al. **Ophthalmic Surg Lasers** 1996 Dec;27(12):1030–4
"Relative" sinus bradycardia. Drew BJ, et al. **Prog Cardiovasc Nurs** 1996 Summer;11(3):47–8

TOXICITY

Development of an animal model for neuroleptic malignant syndrome: heat–exposed rabbits with haloperidol and atropine administration exhibit increased muscle activity, hyperthermia, and high serum creatine phosphokinase level. Tanii H, et al. **Brain Res** 1996 Dec 16;743(1–2):263–70

ATROPINE DERIVATIVES

PHARMACOLOGY

Intracerebroventricular injection of methylatropine suppresses insulin response to oral glucose load in rats. Ohnuma H, et al. **J Auton Nerv Syst** 1996 Feb 5; 57(1–2):43–8
Peripheral atropinization does not change meal size controlled by prepyloric mechanisms. Rauhofer EA, et al. **Physiol Behav** 1996 Feb;59(2):237–40

THERAPEUTIC USE

[Use of fast–acting adaptogens and symptomatic means during evacuation of trauma victims by air transportation] Grechko AT, et al. **Aviakosm Ekolog Med** 1997;31(2):47–9 **(Rus)**

ATT SITES see **ATTACHMENT SITES (MICROBIOLOGY)**

ATTACHMENT LOSS, PERIODONTAL see **PERIODONTAL ATTACHMENT LOSS**

ATTACHMENT SITES (MICROBIOLOGY)

Consequences of attachment of Helicobacter pylori to gastric cells. Segal ED. **Biomed Pharmacother** 1997;51(1):5–12 (69 ref.)
Mutational analysis of protein binding sites involved in formation of the bacteriophage lambda attL complex. MacWilliams M, et al. **J Bacteriol** 1997 Feb;179(4):1059–67
Mutational analysis of bacteriophage phi CTX cos site. Xiong G, et al. **Virus Res** 1996 Dec;46(1–2):149–56

GENETICS

Identification and sequence analysis of the region encoding the site–specific integration system from Leuconostoc oenos (OEnococcus oeni) temperate bacteriophage phi 10MC. Gindreau E, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):279–85
Architectural flexibility in lambda site–specific recombination: three alternate conformations channel the attL site into three distinct pathways. Segall AM, et al. **Genes Cells** 1996 May;1(5):453–63
Bacteriophage T12 of Streptococcus pyogenes integrates into the gene encoding a serine tRNA. McShan WM, et al. **Mol Microbiol** 1997 Feb;23(4):719–28

ATTENDING PHYSICIANS, HOSPITAL see **MEDICAL STAFF, HOSPITAL**

ATTENTION

Implications of task–induced fatigue effects for in–vehicle countermeasures to driver fatigue. Desmond PA, et al. **Accid Anal Prev** 1997 Jul;29(4):515–23
The influence of sustained attention on railway accidents. Edkins GD, et al. **Accid Anal Prev** 1997 Jul;29(4):533–9
Black times: temporal determinants of transport safety. Folkard S. **Accid Anal Prev** 1997 Jul;29(4):417–30 (25 ref.)
Time of day variations in driving performance. Lenné MG, et al. **Accid Anal Prev** 1997 Jul;29(4):431–7
Fatigue, mindset and ecology in the hazard dominant environment. Nelson TM. **Accid Anal Prev** 1997 Jul; 29(4):409–15
Development of fatigue symptoms during simulated driving. Nilsson T, et al. **Accid Anal Prev** 1997 Jul;29(4):479–88
Adaptation to the driver as part of a driver monitoring and warning system. Onken R, et al. **Accid Anal Prev** 1997 Jul; 29(4):507–13
Aircrew fatigue in long–haul operations. Samel A, et al. **Accid Anal Prev** 1997 Jul;29(4):439–52
Attentional deficits in Alzheimer's, Parkinson's, and Huntington's diseases. Claus JJ, et al. **Acta Neurol Scand** 1996 May;93(5):346–51
Antisaccadic eye movements and attentional asymmetry in schizophrenia in three Pacific populations. Allen JS, et al. **Acta Psychiatr Scand** 1996 Oct;94(4):258–65
The effects of decision characteristics on children's selective search of predecisional information. Davidson D. **Acta Psychol (Amst)** 1996 Aug;92(3):263–81
Response bias in color priming. Di Pace E, et al. **Acta Psychol (Amst)** 1997 Jan;95(1):3–14
Threefold effect of peripheral precues: alertness, orienting, and response tendencies. van der Lubbe RH, et al. **Acta Psychol (Amst)** 1996 Dec;94(3):319–37
The influence of enactment on short–term recognition. Zimmer HD, et al. **Acta Psychol (Amst)** 1997 Jan; 95(1):85–95
Awareness of variability in awareness [editorial; comment] Neundorfer MM. **Alzheimer Dis Assoc Disord** 1997 Sep; 11(3):121–2. Comment on: Alzheimer Dis Assoc Disord 1997 Sep;11(3):125–31.
The role of attention in a spatial memory task in Alzheimer disease patients. Simone PM, et al. **Alzheimer Dis Assoc Disord** 1997 Sep;11(3):140–52
Unawareness of cognitive deficit in Alzheimer disease and related dementias [see comments] Wagner MT, et al. **Alzheimer Dis Assoc Disord** 1997 Sep;11(3):125–31. Comment in: Alzheimer Dis Assoc Disord 1997 Sep;11(3):121–2.
Joint attention and language gains in children with Down syndrome. Harris S, et al. **Am J Ment Retard** 1996 May; 100(6):608–19
Negative priming and mental retardation: the processing of distractor information. Merrill EC, et al. **Am J Ment Retard** 1996 Jul;101(1):63–71
Comparison of sustained and selective attention in children who have mental retardation with and without attention deficit hyperactivity disorder. Pearson DA, et al. **Am J Ment Retard** 1996 May;100(6):592–607
Attentional impairments in deficit and nondeficit forms of schizophrenia. Buchanan RW, et al. **Am J Psychiatry** 1997 Mar;154(3):363–70
Visual information–processing impairments in deficit and nondeficit schizophrenia. Bustillo JR, et al. **Am J Psychiatry** 1997 May;154(5):647–54
Attentional functioning in schizotypal personality disorder. Roitman SE, et al. **Am J Psychiatry** 1997 May; 154(5):655–60
The item–order distinction and the generation effect: the importance of order information in long–term memory. Burns DJ. **Am J Psychol** 1996 Winter;109(4):567–80
Odor intensity and color lightness are correlated sensory dimensions. Kemp SE, et al. **Am J Psychol** 1997 Spring; 110(1):35–46
Improving text memory by organizing interfering text at retrieval. Mann T, et al. **Am J Psychol** 1996 Winter; 109(4):539–49
Visual attention: control, representation, and time course. Egeth HE, et al. **Annu Rev Psychol** 1997;48:269–97 (110 ref.)
Dot–probe evaluation of cognitive processing biases in patients with panic disorder: a failure to replicate and extend. Asmundson GJ, et al. **Anxiety** 1994–95;1(3):123–8
Cognitive differences between anxious, normal, and ADHD children on a dichotic listening task. Manassis K, et al. **Anxiety** 1996;2(6):279–85
Cognitive processing in post–traumatic stress disorder. Weinstein AM, et al. **Anxiety** 1996;2(3):130–9
Hypervigilance in patients with obsessive–compulsive disorder. Wiggs CL, et al. **Anxiety** 1996;2(3):123–9
Eye tracking, attention, and schizotypal symptoms in nonpsychotic relatives of patients with schizophrenia. Keefe RS, et al. **Arch Gen Psychiatry** 1997 Feb;54(2):169–76
Psychosocial influences on central and peripheral vision and reaction time during demanding tasks. Williams JM, et al. **Behav Med** 1997 Winter;22(4):160–7
Spatial orienting of attention in adult and aged rhesus monkeys. Baxter MG, et al. **Behav Neurosci** 1996 Oct; 110(5):898–904
An analysis of blocking in odorant mixtures: an increase but not a decrease in intensity of reinforcement produces unblocking. Smith BH. **Behav Neurosci** 1997 Feb; 111(1):57–69
Suppression of the emotional Stroop effect by increased anxiety in patients with social phobia. Amir N, et al. **Behav Res Ther** 1996 Nov–Dec;34(11–12):945–8
Implicit memory bias in clinical and non–clinical depression. Bradley BP, et al. **Behav Res Ther** 1996 Nov–Dec; 34(11–12):865–79
The disruptive nature of pain: an experimental investigation. Crombez G, et al. **Behav Res Ther** 1996 Nov–Dec; 34(11–12):911–8
Conditional reasoning and phobic fear: evidence for a fear–confirming reasoning pattern. de Jong PJ, et al. **Behav Res Ther** 1997 Jun;35(6):507–16
Selective encoding of threat in panic disorder: application of a dual priming paradigm. McNally RJ, et al. **Behav Res Ther** 1997 Jun;35(6):543–9
Evidence for attention to threatening stimuli in depression. Mathews A, et al. **Behav Res Ther** 1996 Sep;34(9):695–705
Anxiety and memory: a recall bias for threatening words in high anxiety. Reidy J, et al. **Behav Res Ther** 1997 Jun; 35(6):531–42
Effects of neutralizing on intrusive thoughts: an experiment investigating the etiology of obsessive–compulsive disorder. Salkovskis PM, et al. **Behav Res Ther** 1997 Mar; 35(3):211–9

ATTENTION

Information processing in spider phobics: the Stroop colour naming task may indicate strategic but not automatic attentional bias. Thorpe SJ, et al. **Behav Res Ther** 1997 Feb;35(2):131–44

Self-focused attention in the treatment of social phobia. Woody SR, et al. **Behav Res Ther** 1997 Feb;35(2):117–29

The relationship of information-processing deficits and clinical symptoms in schizotypal personality disorder. Cadenhead KS, et al. **Biol Psychiatry** 1996 Nov 1; 40(9):853–8

An assessment of cognitive function and mood in chronic fatigue syndrome. Marshall PS, et al. **Biol Psychiatry** 1996 Feb 1;39(3):199–206

Abnormal recognition of facial expression of emotions in depressed patients with major depression disorder and schizotypal personality disorder. Mikhailova ES, et al. **Biol Psychiatry** 1996 Oct 15;40(8):697–705

Sex differences in olfactory identification and Wisconsin Card Sorting performance in schizophrenia: relationship to attention and verbal ability. Seidman LJ, et al. **Biol Psychiatry** 1997 Jul 15;42(2):104–15

Arousal systems and attentional processes. Robbins TW. **Biol Psychol** 1997 Mar 21;45(1–3):57–71 (67 ref.)

Selective processing of three types of stimuli in eating disorders. Cooper M, et al. **Br J Clin Psychol** 1997 May; 36 (Pt 2):279–81

Shadowing on the basis of contextual information in individuals with schizotypal personality. Hall G, et al. **Br J Clin Psychol** 1996 Nov;35 (Pt 4):595–604

The effect of one-session treatment for spider phobia on attentional bias and beliefs. Thorpe SJ, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):225–41

Analogical reasoning and the nature of context: a research note. Richardson K, et al. **Br J Educ Psychol** 1996 Mar; 66 (Pt 1):23–32

Behavioural vigilance in schizophrenia. Evidence for hyperattentional processing. Mar CM, et al. **Br J Psychiatry** 1996 Dec;169(6):781–9

Impulsivity and negative priming: evidence for diminished cognitive inhibition in impulsive children. Visser M, et al. **Br J Psychol** 1996 Feb;87 (Pt 1):131–40

Attention and stimulus characteristics determine the locus of motor-sequence encoding. A PET study. Hazeltine E, et al. **Brain** 1997 Jan;120 (Pt 1):123–40

Functional localization of the system for visuospatial attention using positron emission tomography. Nobre AC, et al. **Brain** 1997 Mar;120 (Pt 3):515–33

Spatial nonuniformities in visual search. Efron R, et al. **Brain Cogn** 1996 Aug;31(3):331–68

Divided and focused attention in patients with lesion of the prefrontal cortex. Godefroy O, et al. **Brain Cogn** 1996 Mar; 30(2):155–74

Differences between Alzheimer's disease and vascular dementia on information processing measures. Mendez MF, et al. **Brain Cogn** 1997 Jul;34(2):301–10

Hemispheric asymmetries for spatial frequency discrimination in a selective attention task. Proverbio AM, et al. **Brain Cogn** 1997 Jul;34(2):311–20

The significance of body part as tool errors in limb apraxia. Raymer AM, et al. **Brain Cogn** 1997 Jul;34(2):287–92

The influence of center of mass effect on the distribution of spatial attention in the vertical and horizontal dimensions. Shuren JE, et al. **Brain Cogn** 1997 Jul; 34(2):293–300

Recovery of automatic and cognitive functions in traumatic brain injury using the functional independence measure. Tofil S, et al. **Brain Inj** 1996 Dec;10(12):901–10

Analysis of conversational topic shifts: a multiple case study. Garcia LJ, et al. **Brain Lang** 1997 Jun 1;58(1):92–114

Are subjects' perceptual asymmetries on auditory and visual language tasks correlated?: a meta-analysis. Kim H. **Brain Lang** 1997 Jun 1;58(1):61–9

Delayed visual maturation in infants: a disorder of figure-ground separation? Harris CM, et al. **Brain Res Bull** 1996;40(5–6):365–9

The bailiwick of visuo-spatial working memory: evidence from unilateral spatial neglect. Ellis AX, et al. **Brain Res Cogn Brain Res** 1996 Mar;3(2):71–8 (39 ref.)

Preattentive periodicity detection in auditory patterns as governed by time and intensity information. Schröger E, et al. **Brain Res Cogn Brain Res** 1996 Sep;4(2):145–8

On the calibration of knowledge and perception. Baranski JV, et al. **Can J Exp Psychol** 1995 Sep;49(3):397–407

Letter localization, not discrimination, is constrained by attention. Bennett PJ, et al. **Can J Exp Psychol** 1995 Dec; 49(4):460–504

Search for letter identity and location by disabled readers. Enns JT, et al. **Can J Exp Psychol** 1995 Sep;49(3):357–67

Tapping sensitivity to processing in short-term memory. Fortin C, et al. **Can J Exp Psychol** 1996 Dec;50(4):402–7

Does irrelevant stimulus location affect response selection? Hasbroucq T, et al. **Can J Exp Psychol** 1995 Sep; 49(3):349–56

Indirect learning of event sequences: the effects of divided attention and stimulus continuity. McDowall J, et al. **Can J Exp Psychol** 1995 Dec;49(4):415–36

A left-ear advantage for forced-choice judgements of melodic contour. McKinnon MC, et al. **Can J Exp Psychol** 1997 Jun;51(2):171–5

Negative priming without overt prime selection. Milliken B, et al. **Can J Exp Psychol** 1996 Dec;50(4):333–46

Inhibition of return along the path of attention. O'Donnell C, et al. **Can J Exp Psychol** 1996 Dec;50(4):386–92

Immediate serial recall, word frequency, item identity and item position. Poirier M, et al. **Can J Exp Psychol** 1996 Dec;50(4):408–12

The gender difference in orienting liquid surfaces and plumb-lines: its robustness, its correlates, and the associated knowledge of simple physics. Robert M. **Can J Exp Psychol** 1996 Sep;50(3):280–314

Lateralization of high frequency sounds as a function of interaural amplitude disparity. Rule SJ, et al. **Can J Exp Psychol** 1995 Sep;49(3):368–75

The effect of stimulus range on perceived contrast: evidence for contrast gain control. Schneider B, et al. **Can J Exp Psychol** 1996 Dec;50(4):347–55

Axis of elongation can determine reference frames for object perception. Sekuler AB. **Can J Exp Psychol** 1996 Sep; 50(3):270–9

Unattended words need to be primed to be recognized. White M. **Can J Exp Psychol** 1995 Sep;49(3):273–86

Patterns of eye movements during parallel and serial visual search tasks. Williams DE, et al. **Can J Exp Psychol** 1997 Jun;51(2):151–64

Neutral location cues and cost/benefit analysis of visual attention shifts. Wright RD, et al. **Can J Exp Psychol** 1995 Dec;49(4):540–8

Inhibition-of-return at multiple locations in visual space. Wright RD, et al. **Can J Exp Psychol** 1996 Sep;50(3):324–7

Infant sensitivity to adult eye direction. Hains SM, et al. **Child Dev** 1996 Oct;67(5):1940–51

Restricting a familiar name in response to learning a new one: evidence for the mutual exclusivity bias in young two-year-olds. Merriman WE, et al. **Child Dev** 1997 Apr; 68(2):211–28

The selectivity of motion-driven visual attention in infants. Nagata Y, et al. **Child Dev** 1996 Dec;67(6):2608–20

Depressed mothers' touching increases infants' positive affect and attention in still-face interactions. Peláez-Nogueras M, et al. **Child Dev** 1996 Aug;67(4):1780–92

Children's memory of an occurrence of a repeated event: effects of age, repetition, and retention interval across three question types. Powell MB, et al. **Child Dev** 1996 Oct; 67(5):1988–2004

Seriation, conservation, and theory of mind abilities in individuals with autism, individuals with mental retardation, and normally developing children. Yirmiya N, et al. **Child Dev** 1996 Oct;67(5):2045–59

Evaluation of auditory discrimination in children with ADD and without ADD. Geffner D, et al. **Child Psychiatry Hum Dev** 1996 Spring;26(3):169–79

Perception of loudness in children with ADD and without ADD. Lucker JR, et al. **Child Psychiatry Hum Dev** 1996 Spring;26(3):181–90

Circadian determinants of the postlunch dip in performance. Monk TH, et al. **Chronobiol Int** 1996 Jul;13(2):123–33

Smoking and attention: a review and reformulation of the stimulus-filter hypothesis. Kassel JD. **Clin Psychol Rev** 1997;17(5):451–78 (200 ref.)

Traumatic intrusive imagery as an emotional memory phenomenon: a review of research and explanatory information processing theories. vanOyen Witvliet C. **Clin Psychol Rev** 1997;17(5):509–36 (150 ref.)

Some essential differences between consciousness and attention, perception, and working memory. Baars BJ. **Conscious Cogn** 1997 Jun-Sep;6(2–3):363–71

Facilitatory or inhibitory nontarget effects in the location-cuing paradigm. Chastain G, et al. **Conscious Cogn** 1997 Jun-Sep;6(2–3):328–47

Understanding diverse effects of visual attention with the VAP-filters metaphor. Cheal M. **Conscious Cogn** 1997 Jun-Sep;6(2–3):348–62 (76 ref.)

Guessing strategies, aging, and bias effects in perceptual identification [see comments] Light LL, et al. **Conscious Cogn** 1996 Dec;5(4):463–99. Comment in: Conscious Cogn 1996 Dec;5(4):500–11.

Separating implicit from explicit retrieval processes in perceptual identification [see comments] McKoon G, et al. **Conscious Cogn** 1996 Dec;5(4):500–11; discussion 512–24 . Comment in: Conscious Cogn 1996 Dec;5(4):463–99.

The phenomenology of attention. 2. Brightness and contrast. Prinzmetal W, et al. **Conscious Cogn** 1997 Jun-Sep; 6(2–3):372–412

Manipulation of attention at study affects an explicit but not an implicit test of memory. Szymanski KF, et al. **Conscious Cogn** 1996 Mar-Jun;5(1–2):165–75

What does the haptic modality do during cognitive activities on letter shapes? A study with left- and right-handers. Benoit-Dubrocard S, et al. **Cortex** 1997 Jun;33(2):301–12

Unilateral neglect and space constancy during passive locomotion. Bisiach E, et al. **Cortex** 1997 Jun;33(2):313–22

Autonomic and recognition indices of memory in amnesic and healthy control subjects. Diamond BJ, et al. **Cortex** 1996 Sep;32(3):439–59

Sensitizing properties of spectral lights in 4-month-old human infants. Bieber ML, et al. **Dev Psychobiol** 1997 May; 30(4):275–81

Interpreting infant looking: the event set x event set design. Bogartz RS, et al. **Dev Psychol** 1997 May;33(3):408–22

Mothers' and toddlers' coordinated joint focus of attention: variations with maternal dysphoric symptoms. Goldsmith DF, et al. **Dev Psychol** 1997 Jan;33(1):113–9

Numerical abstraction in infants: another look. Mix KS, et al. **Dev Psychol** 1997 May;33(3):423–8

Effects of attention on infants' preference for briefly exposed visual stimuli in the paired-comparison recognition-memory paradigm. Richards JE. **Dev Psychol** 1997 Jan;33(1):22–31

The effect of talker variability on word recognition in preschool children. Ryalls BO, et al. **Dev Psychol** 1997 May;33(3):441–52

The relationship between joint attention and pretend play in autism. Charman T. **Dev Psychopathol** 1997 Winter; 9(1):1–16 (110 ref.)

Deficits, delays, and distractions: an evaluation of symbolic play and memory in children with autism. McDonough L, et al. **Dev Psychopathol** 1997 Winter;9(1):17–41

Attentional functioning in children and adolescents with IDDM. Rovet J, et al. **Diabetes Care** 1997 May; 20(5):803–10

False lateralization of seizure perceived by a patient with infarction of the right parietal lobe who showed the neglect syndrome. Heo K, et al. **Epilepsia** 1997 Jan;38(1):122–3

Relations between individual differences in oculomotor resting states and visual inspection performance. Best PS, et al. **Ergonomics** 1996 Jan;39(1):35–40

Measurement of the speed accuracy operating characteristic for visual search. Drury CG, et al. **Ergonomics** 1996 Jan; 39(1):41–5

The binocular fusion of human vision on stereoscopic displays—field of view and environment effects. Nagata S. **Ergonomics** 1996 Nov;39(11):1273–84

Effects of stimulus duration and task experience on gaze shift. Wang L, et al. **Ergonomics** 1996 Jan;39(1):141–51

Effects of moderate heat stress on driver vigilance in a moving vehicle. Wyon DP, et al. **Ergonomics** 1996 Jan; 39(1):61–75

Short-term trends in Dutch children's attention problems. de Jong PF. **Eur Child Adolesc Psychiatry** 1997 Jun; 6(2):73–80

Sustained attention and aging: overcoming the decrement? Giambra LM. **Exp Aging Res** 1997 Apr-Jun;23(2):145–61

Upright standing and gait: are there changes in attentional requirements related to normal aging? Lajoie Y, et al. **Exp Aging Res** 1996 Apr-Jun;22(2):185–98

Effects of division of attention during encoding and retrieval on age differences in episodic memory. Nyberg L, et al. **Exp Aging Res** 1997 Apr-Jun;23(2):137–43

Three-dimensional covert attentional functions in Parkinson's disease subjects. Bennett KM, et al. **Exp Brain Res** 1996 Nov;112(2):277–88

Auditory cues and inhibition of return: the importance of oculomotor activation. Reuter-Lorenz PA, et al. **Exp Brain Res** 1996 Nov;112(1):119–26

Focus [editorial] Lutter LD. **Foot Ankle Int** 1997 May; 18(5):253–4

Card-sort performance and syndromes of schizophrenia. Rowe EW, et al. **Genet Soc Gen Psychol Monogr** 1997 May; 123(2):197–209

Psychotherapy and the ethics of attention. Lipson M, et al. **Hastings Cent Rep** 1996 Jan-Feb;26(1):17–22

Memory for pain and the delayed effects of distraction. Christenfeld N. **Health Psychol** 1997 Jul;16(4):327–30

Monitoring attentional style and medical regimen adherence in hemodialysis patients. Christensen AJ, et al. **Health Psychol** 1997 May;16(3):256–62

Attentional mediation of cigarette smoking's effect on anxiety. Kassel JD, et al. **Health Psychol** 1997 Jul; 16(4):359–68

Effects of frequency on free-field masking. Gilkey RH, et al. **Hum Factors** 1995 Dec;37(4):835–43

Dual-task performance in space: results from a single-case study during a short-term space mission. Manzey D, et al. **Hum Factors** 1995 Dec;37(4):667–81

Effects of instruction type and boredom proneness in vigilance: implications for boredom and workload. Sawin DA, et al. **Hum Factors** 1995 Dec;37(4):752–65

Task dependence in color-naming latency among dieters. Huon GF, et al. **Int J Eat Disord** 1996 May;19(4):405–10

Effects of short-term food deprivation and chronic dietary restraint on the selective processing of appetitive-related cues. Stewart SH, et al. **Int J Eat Disord** 1997 Mar; 21(2):129–35

Bulimic psychopathology and attentional biases to ego threats among non-eating-disordered women. Waller G, et al. **Int J Eat Disord** 1996 Sep;20(2):169–76

Peripheral cuing of covert spatial attention before and after emotional conditioning of the cue. Stormark KM, et al. **Int J Neurosci** 1996 Sep;86(3–4):225–40

Memory and attention test performance of young and elderly subjects after retest practice. Rockstroh S, et al. **Int Psychogeriatr** 1995 Fall;7(3):377–84

Semantic priming in schizophrenia: an examination of spreading activation using word pronunciation and multiple SOAs. Barch DM, et al. **J Abnorm Psychol** 1996 Nov; 105(4):592–601

Expectancy bias in trait anxiety. Chan CK, et al. **J Abnorm Psychol** 1996 Nov;105(4):637–47

Anomalous perceptual asymmetries for negative emotional stimuli in the psychopath. Day R, et al. **J Abnorm Psychol** 1996 Nov;105(4):648–52

Attentional dysfunctions in neuroleptic-naive and neuroleptic-withdrawn schizophrenic patients and their siblings. Finkelstein JR, et al. **J Abnorm Psychol** 1997 May; 106(2):203–12

Impaired precision, but normal retention, of auditory sensory

("echoic") memory information in schizophrenia. Javitt DC, et al. **J Abnorm Psychol** 1997 May;106(2):315–24
The response styles theory of depression: tests and an extension of the theory. Just N, et al. **J Abnorm Psychol** 1997 May;106(2):221–9
Covariation bias in panic–prone individuals. Pauli P, et al. **J Abnorm Psychol** 1996 Nov;105(4):658–62
Reduced top–down influence in auditory perceptual organization in schizophrenia. Silverstein SM, et al. **J Abnorm Psychol** 1996 Nov;105(4):663–7
Speech perception as pattern recognition. Nearey TM. **J Acoust Soc Am** 1997 Jun;101(6):3241–54
Detection of silent intervals between noises activating different perceptual channels: some properties of "central" auditory gap detection. Phillips DP, et al. **J Acoust Soc Am** 1997 Jun;101(6):3694–705
Changes in evoked otoacoustic emissions in the guinea pig after pure–tone acoustic overstimulation. Ueda H, et al. **J Acoust Soc Am** 1997 Jun;101(6):3577–82
Attention cueing aids auditory intensity resolution. Ward LM, et al. **J Acoust Soc Am** 1996 Sep;100(3):1722–7
Executive dysfunction in depression: the Wisconsin Card Sorting Test. Channon S. **J Affect Disord** 1996 Jul 8; 39(2):107–14
Self–focused and somatic attention in patients with tinnitus. Newman CW, et al. **J Am Acad Audiol** 1997 Jun;8(3):143–9
Effect of concentration problems on the malleability of children's aggressive and shy behaviors. Rebok GW, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Feb; 35(2):193–203
Assessing attentiveness in older hospital patients: global assessment versus tests of attention. O'Keeffe ST, et al. **J Am Geriatr Soc** 1997 Apr;45(4):470–3
Interpretive bias for benign sensations in panic disorder with agoraphobia. Kamieniecki GW, et al. **J Anxiety Disord** 1997 Mar–Apr;11(2):141–56
The effects of contingent and noncontingent attention on self–injury and self–restraint [see comments] Derby KM, et al. **J Appl Behav Anal** 1996 Spring;29(1):107–10. Comment in: J Appl Behav Anal 1996 Spring;29(1):93–8.
Noncontingent presentation of attention and alternative stimuli in the treatment of attention–maintained destructive behavior. Hanley GP, et al. **J Appl Behav Anal** 1997 Summer;30(2):229–37
An analysis of reinforcer substitutability using object manipulation and self–injury as competing responses. Shore BA, et al. **J Appl Behav Anal** 1997 Spring;30(1):21–41
Effects of trial complexity on decision making. Horowitz IA, et al. **J Appl Psychol** 1996 Dec;81(6):757–68
Brief report: autistic children's attentiveness and responsivity improve after touch therapy. Field T, et al. **J Autism Dev Disord** 1997 Jun;27(3):333–8
When is a significant change not significant? [letter; comment] Howlin P. **J Autism Dev Disord** 1997 Jun;27(3):347–8. Comment on: J Autism Dev Disord 1995 Feb;25(1):61–70. Comment on: J Autism Dev Disord 1996 Jun;26(3):361–74.
An investigation of attention and affect in children with autism and Down syndrome. Joseph RM, et al. **J Autism Dev Disord** 1997 Aug;27(4):385–96
Joint attention in preverbal children: autism and developmental language disorder. McArthur D, et al. **J Autism Dev Disord** 1996 Oct;26(5):481–96
Inhibitory function in nonretarded children with autism. Ozonoff S, et al. **J Autism Dev Disord** 1997 Feb;27(1):59–77
Visual–spatial orienting in autism. Wainwright JA, et al. **J Autism Dev Disord** 1996 Aug;26(4):423–38
Is the Continuous Performance Task useful in research with ADHD children? Comments on a review [comment] Koelega HS. **J Child Psychol Psychiatry** 1995 Nov; 36(8):1477–85; discussion 1487–93. Comment on: J Child Psychol Psychiatry 1993 Oct;34(7):1217–39.
Virtual reality and gastrointestinal endoscopy, or, is Virtual Vision a speed bump on the road to telepresence? [editorial] Kozarek RA. **J Clin Gastroenterol** 1997 Apr;24(3):130–2
OR reading debate continues in my opinion: lack of outcome data makes reading a personal decision, states OR investigator [news] Weinger MB. **J Clin Monit** 1996 Jan; 12(1):109–10
Imitative learning in male Japanese quail (Coturnix japonica) using the two–action method. Akins CK, et al. **J Comp Psychol** 1996 Sep;110(3):316–20
Gaze following and joint attention in rhesus monkeys (Macaca mulatta). Emery NJ, et al. **J Comp Psychol** 1997 Sep;111(3):286–93
Hiding and perspective taking in long–tailed macaques (Macaca fascicularis). Kummer H, et al. **J Comp Psychol** 1996 Mar;110(1):97–102
Characteristics of perceptual grouping in rats. Kurylo DD, et al. **J Comp Psychol** 1997 Jun;111(2):126–34
Indexical and referential pointing in chimpanzees (Pan troglodytes). Leavens DA, et al. **J Comp Psychol** 1996 Dec; 110(4):346–53
Shift of laterality and compared analysis of paw performances in cats during practice of a visuomotor task. Lorincz E, et al. **J Comp Psychol** 1996 Sep;110(3):307–15
Effect of avian–human joint attention on allospecific vocal learning by grey parrots (Psittacus erithacus). Pepperberg IM, et al. **J Comp Psychol** 1996 Sep;110(3):286–97
Factors influencing young chimpanzees' (Pan troglodytes) recognition of attention. Povinelli DJ, et al. **J Comp Psychol** 1996 Dec;110(4):336–45
Information integration about object–object relationships by chimpanzees (Pan troglodytes). Tanaka M. **J Comp Psychol** 1996 Dec;110(4):323–35
Predictors of individual differences in attention among low birth weight children. Robson AL, et al. **J Dev Behav Pediatr** 1997 Feb;18(1):13–21
Effects of spatial rearrangement of object components on picture recognition in pigeons. Kirkpatrick–Steger K, et al. **J Exp Anal Behav** 1996 Mar;65(2):465–75
Memory processes in delayed spatial discriminations: response intentions or response mediation? Urcuioli PJ, et al. **J Exp Anal Behav** 1997 May;67(3):323–36
Attention factors mediating syntactic deficiency in reading–disabled children. Deutsch A, et al. **J Exp Child Psychol** 1996 Nov;63(2):386–415
Employing computer technology to assess visual attention in young children and adolescents with severe mental retardation. Huguenin NH. **J Exp Child Psychol** 1997 May; 65(2):141–70
The distribution of visual attention in infants. Jankowski JJ, et al. **J Exp Child Psychol** 1997 May;65(2):127–40
The development and temporal dynamics of spatial orienting in infants. Johnson MH, et al. **J Exp Child Psychol** 1996 Oct;63(1):171–88
A gender difference in visual–spatial ability in 4–year–old children: effects on performance of a kinesthetic acuity task. Livesey DJ, et al. **J Exp Child Psychol** 1996 Nov; 63(2):436–46
Preschool children's attention to television: visual attention and probe response times. Lorch EP, et al. **J Exp Child Psychol** 1997 Jul;66(1):111–27
Developmental changes in the inhibition of previously relevant information. Lorsbach TC, et al. **J Exp Child Psychol** 1997 Mar;64(3):317–42
Sources of interference from irrelevant information: a developmental study. Ridderinkhof KR, et al. **J Exp Child Psychol** 1997 Jun;65(3):315–41
Distractibility in infancy: the effects of distractor characteristics and type of attention. Tellinghuisen DJ, et al. **J Exp Child Psychol** 1997 Feb;64(2):232–54
Converging evidence for one–trial context fear conditioning with an immediate shock: importance of shock potency. Bevins RA, et al. **J Exp Psychol Anim Behav Process** 1997 Jul;23(3):312–24
Systematic nonlinearities in the memory representation of time. Crystal JD, et al. **J Exp Psychol Anim Behav Process** 1997 Jul;23(3):267–82
Blocking of subsequent and antecedent events. Esmoris–Arranz FJ, et al. **J Exp Psychol Anim Behav Process** 1997 Apr;23(2):145–56
Cyclic responding by pigeons on the peak timing procedure. Kirkpatrick–Steger K, et al. **J Exp Psychol Anim Behav Process** 1996 Oct;22(4):447–60
Interaction between piloting and beacon homing by rats in a swimming pool. Redhead ES, et al. **J Exp Psychol Anim Behav Process** 1997 Jul;23(3):340–50
Issues concerning relative speed of processing hypotheses, schizophrenic performance deficits, and prefrontal function: comment on Schooler et al. (1997) [comment] [see comments] Cohen JD, et al. **J Exp Psychol Gen** 1997 Mar;126(1):37–41 (21 ref.). Comment on: J Exp Psychol Gen 1997 Mar;126(1):19–36. Comment in: J Exp Psychol Gen 1997 Mar;126(1):42–4.
Emotion, motivation, and text comprehension: the detection of contradictions in passages. Ellis HC, et al. **J Exp Psychol Gen** 1997 Jun;126(2):131–46
Bias in spatial location due to categorization: comment on Tversky and Schiano. Engebretson PH, et al. **J Exp Psychol Gen** 1996 Mar;125(1):96–108
Object–based attentional selection--grouped arrays or spatially invariant representations?: comment on vecera and Farah (1994). Kramer AF, et al. **J Exp Psychol Gen** 1997 Mar;126(1):3–13
On the nature and scope of featural representations of word meaning. McRae K, et al. **J Exp Psychol Gen** 1997 Jun; 126(2):99–130
The role of working memory capacity in retrieval. Rosen VM, et al. **J Exp Psychol Gen** 1997 Sep;126(3):211–27
A time course analysis of Stroop interference and facilitation: comparing normal individuals and individuals with schizophrenia [see comments] Schooler C, et al. **J Exp Psychol Gen** 1997 Mar;126(1):19–36. Comment in: J Exp Psychol Gen 1997 Mar;126(1):37–41.
Stroop theory, memory, and prefrontal cortical functioning: reply to Cohen et al. (1997) [comment] Schooler C, et al. **J Exp Psychol Gen** 1997 Mar;126(1):42–4 (18 ref.). Comment on: J Exp Psychol Gen 1997 Mar;126(1):37–41.
Uncertain responses by humans and rhesus monkeys (Macaca mulatta) in a psychophysical same–different task. Shields WE, et al. **J Exp Psychol Gen** 1997 Jun;126(2):147–64
Spatially diffuse inhibition affects multiple locations: a reply to Tipper, Weaver, and Watson (1996) [comment] Abrams RA, et al. **J Exp Psychol Hum Percept Perform** 1996 Oct; 22(5):1294–8. Comment on: J Exp Psychol Hum Percept Perform 1996 Oct;22(5):1289–93.
Goal–directed guidance of attention: evidence from conjunctive visual search. Bacon WJ, et al. **J Exp Psychol Hum Percept Perform** 1997 Aug; 23(4):948–61
Evidence of limited capacity and noise reduction with single–element displays in the location–cuing paradigm. Cheal ML, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):51–71
Types and tokens in visual processing: a double dissociation between the attentional blink and repetition blindness. Chun MM. **J Exp Psychol Hum Percept Perform** 1997 Jun; 23(3):738–55
Semantic and spatial components of selective attention. Dark VJ, et al. **J Exp Psychol Hum Percept Perform** 1996 Feb; 22(1):63–81
Image velocity magnitudes and perception of heading. Dyre BP, et al. **J Exp Psychol Hum Percept Perform** 1997 Apr; 23(2):546–65
Visual quality and attentional capture: a challenge to the special role of abrupt onsets. Gibson BS. **J Exp Psychol Hum Percept Perform** 1996 Dec; 22(6):1496–504
Perceptual repetition blindness effects. Hochhaus L, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):355–66
Selection by color and form in vision. Humphreys GW, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb; 23(1):136–53
Signal detection analyses of repetition blindness. Kanwisher NG, et al. **J Exp Psychol Hum Percept Perform** 1996 Oct; 22(5):1249–60
Detection of Kanji words in a rapid serial visual presentation task. Kikuchi T. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):332–41
View specificity in object processing: evidence from picture matching. Lawson R, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr; 22(2):395–416
Influence of training and experience on the perception of multicomponent odor mixtures. Livermore A, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):267–77
Visual search as a function of type of prior experience with target and distractor. Lubow RE, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):14–24
Orienting attention without awareness. McCormick PA. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):168–80
Selective attention and the formation of linear decision boundaries. McKinley SC, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr; 22(2):294–317
Associative priming by targets and distractors during rapid serial visual presentation: does word meaning survive the attentional blink? Maki WS, et al. **J Exp Psychol Hum Percept Perform** 1997 Aug; 23(4):1014–34
Adaptive spatial alignment and strategic perceptual–motor control. Redding GM, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):379–94
What is inhibited in inhibition of return? Reuter–Lorenz PA, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr; 22(2):367–78
Peripheral stimulus localization by infants: attention, age, and individual differences in heart rate variability. Richards JE. **J Exp Psychol Hum Percept Perform** 1997 Jun;23(3):667–80
An audiovisual test of kinematic primitives for visual speech perception. Rosenblum LD, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):318–31
Set size, novelty, and visual pop–out in infancy. Rovee–Collier C, et al. **J Exp Psychol Hum Percept Perform** 1996 Oct; 22(5):1178–87
Selective attention in a reaching task: effect of normal aging and Alzheimer's disease. Simone PM, et al. **J Exp Psychol Hum Percept Perform** 1997 Jun; 23(3):595–608
Stroop performance in healthy younger and older adults and in individuals with dementia of the Alzheimer's type. Spieler DH, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):461–79
Object–centered not scene–based visual neglect. Tipper SP, et al. **J Exp Psychol Hum Percept Perform** 1996 Oct; 22(5):1261–78
Inhibition of return to successively cued spatial locations: commentary on Pratt and Abrams (1995) [see comments] Tipper SP, et al. **J Exp Psychol Hum Percept Perform** 1996 Oct;22(5):1289–93. Comment in: J Exp Psychol Hum Percept Perform 1996 Oct122(5):1294–8.
Inattention magnifies perceived length: the attentional receptive field hypothesis. Tsal Y, et al. **J Exp Psychol Hum Percept Perform** 1996 Feb;22(1):233–43
Visual control when aiming at a far target. Vickers JN. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):342–54
Attentional capture by abrupt onsets: new perceptual objects or visual masking? Yantis S, et al. **J Exp Psychol Hum Percept Perform** 1996 Dec; 22(6):1505–13
Figural aftereffects and spatial attention. Yeh SL, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):446–60
Categorization and sensitivity to correlation. Anderson JR, et al. **J Exp Psychol Learn Mem Cogn** 1996 Mar; 22(2):259–77
Two loci of repetition priming in the recognition of familiar faces. Ellis AW, et al. **J Exp Psychol Learn Mem Cogn** 1996 Mar;22(2):295–308
Comparison of the retrieval of item versus spatial position information. Gronlund SD, et al. **J Exp Psychol Learn Mem Cogn** 1997 Sep;23(5):1261–74
Semantic versus perceptual influences of color in object recognition. Joseph JE, et al. **J Exp Psychol Learn Mem Cogn** 1996 Mar;22(2):407–29
Irrelevant speech, serial rehearsal, and temporal

distinctiveness: a new approach to the irrelevant speech effect. LeCompte DC. **J Exp Psychol Learn Mem Cogn** 1996 Sep;22(5):1154–65

Irrelevant speech and irrelevant tones: the relative importance of speech to the irrelevant speech effect. LeCompte DC, et al. **J Exp Psychol Learn Mem Cogn** 1997 Mar;23(2):472–83

Recollections of faces: remembering differences and knowing similarities. Mäntylä T.
J Exp Psychol Learn Mem Cogn 1997 Sep;23(5):1203–16

Disruption to word or letter processing? The origins of case-mixing effects. Mayall K, et al.
J Exp Psychol Learn Mem Cogn 1997 Sep;23(5):1275–86

Spatial attention and implicit sequence learning: evidence for independent learning of spatial and nonspatial sequences. Mayr U. **J Exp Psychol Learn Mem Cogn** 1996 Mar; 22(2):350–64

The effects of perceptual interference at encoding on implicit memory, explicit memory, and memory for source. Mulligan NW. **J Exp Psychol Learn Mem Cogn** 1996 Sep; 22(5):1067–87

Exemplar similarity and the development of automaticity. Palmeri TJ. **J Exp Psychol Learn Mem Cogn** 1997 Mar; 23(2):324–54

Situation models and abstract ownership relations. Radvansky GA, et al. **J Exp Psychol Learn Mem Cogn** 1997 Sep;23(5):1233–46

Activating representations in permanent memory: different benefits for pictures and words. Seifert LS.
J Exp Psychol Learn Mem Cogn 1997 Sep;23(5):1106–21

Contrast and illumination effects on explicit and implicit measures of memory. Srinivas K.
J Exp Psychol Learn Mem Cogn 1996 Sep;22(5):1123–35

Reverse-interference effect in free recall. Thapar A.
J Exp Psychol Learn Mem Cogn 1996 Mar;22(2):430–7

Dissociations between familiarity processes in explicit recognition and implicit perceptual memory. Wagner AD, et al. **J Exp Psychol Learn Mem Cogn** 1997 Mar; 23(2):305–23

An investigation of cued recall of multiattribute stimuli. Ward G, et al. **J Exp Psychol Learn Mem Cogn** 1997 Sep; 23(5):1247–60

Collective memory: collaborative and individual processes in remembering. Weldon MS, et al.
J Exp Psychol Learn Mem Cogn 1997 Sep;23(5):1160–75

Memory for faces: evidence of retrieval-based impairment. Windschitl PD. **J Exp Psychol Learn Mem Cogn** 1996 Sep; 22(5):1101–22

Distinguishing detection from identification in subliminal auditory perception: a review and critique of Merikle's study. Harris JL, et al. **J Gen Psychol** 1996 Jan;123(1):41–50

Perceiving the orientation-in-depth of triangular surfaces: static-monocular, moving-monocular, and static-binocular viewing. Reinhardt-Rutland AH. **J Gen Psychol** 1996 Jan; 123(1):19–28

The effect of music amplitude on the reaction to unexpected visual events. Turner ML, et al. **J Gen Psychol** 1996 Jan; 123(1):51–62

Remembering details in stories about childhood sexual abuse. Lewis SF, et al. **J Genet Psychol** 1997 Sep;158(3):377–9

Using standard situations to measure attention span and persistence in toddler-aged children: some cautions. Silverman IW, et al. **J Genet Psychol** 1996 Dec; 157(4):397–410

Toddlers' speech and cognitive effort. Wiener-Margulies M, et al. **J Genet Psychol** 1996 Mar;157(1):65–76

The role of reader age and focus of attention in creating situation models from narratives. Morrow DG, et al.
J Gerontol B Psychol Sci Soc Sci 1997 Mar;52(2):P73–80

Covert versus overt self-recognition in late stage Alzheimer's disease. Bologna SM, et al. **J Int Neuropsychol Soc** 1997 Mar;3(2):195–8

Increasing on-task behaviour through interruption-prompting. Duker PC, et al.
J Intellect Disabil Res 1996 Aug;40 (Pt 4):291–7

The effects of behavioural relaxation on cognitive performance in adults with severe intellectual disabilities. Lindsay WR, et al. **J Intellect Disabil Res** 1996 Aug;40 (Pt 4):285–90

A comparison of the effects of four therapy procedures on concentration and responsiveness in people with profound learning disabilities. Lindsay WR, et al.
J Intellect Disabil Res 1997 Jun;41 (Pt 3):201–7

Distractibility and processing resource deficit in major depression. Evidence for two deficient attentional processing models. Lemelin S, et al. **J Nerv Ment Dis** 1997 Sep;185(9):542–8

Biases in the processing of different forms of threat in bulimic and comparison women. McManus F, et al.
J Nerv Ment Dis 1996 Sep;184(9):547–54

Performance characteristics of chronic schizophrenia on attention tests sensitive to unilateral brain damage. Mizuno M, et al. **J Nerv Ment Dis** 1997 Jul;185(7):427–33

Diverse patterns of performance in copying and severity of unilateral spatial neglect. Seki K, et al. **J Neurol** 1996 Jan; 243(1):1–8

The influence of auditory and visual distractors on human orienting gaze shifts. Corneil BD, et al. **J Neurosci** 1996 Dec 15;16(24):8193–207

Attentional processing in hyperthyroid children before and after treatment. Alvarez M, et al.
J Pediatr Endocrinol Metab 1996 Jul-Aug;9(4):447–54

Thyroid hormone and attention in congenital hypothyroidism. Rovet J, et al.
J Pediatr Endocrinol Metab 1996 Jan-Feb;9(1):63–6

Arousal-modulated attention at four months as a function of intrauterine cocaine exposure and central nervous system injury. Karmel BZ, et al. **J Pediatr Psychol** 1996 Dec; 21(6):821–32

Effect of cerebral lesions on continuous performance test responses of school age children born prematurely. Katz KS, et al. **J Pediatr Psychol** 1996 Dec;21(6):841–55

Sensory-processing sensitivity and its relation to introversion and emotionality. Aron EN, et al. **J Pers Soc Psychol** 1997 Aug;73(2):345–68

Why listeners hear less than they are told: attentional load and the teller-listener extremity effect. Baron RS, et al. **J Pers Soc Psychol** 1997 Apr;72(4):826–38

Mood and the use of scripts: does a happy mood really lead to mindlessness? Bless H, et al. **J Pers Soc Psychol** 1996 Oct;71(4):665–79

From vigilance to violence: mate retention tactics in married couples. Buss DM, et al. **J Pers Soc Psychol** 1997 Feb; 72(2):346–61

Influence of overt head movements on memory for valenced words: a case of conceptual-motor compatibility. Förster J, et al. **J Pers Soc Psychol** 1996 Sep;71(3):421–30

Emotional state and the use of stimulus dimensions in judgment. Halberstadt JB, et al. **J Pers Soc Psychol** 1997 May;72(5):1017–33

Counterfactual thinking and ascriptions of cause and preventability. Mandel DR, et al. **J Pers Soc Psychol** 1996 Sep;71(3):450–63

A training procedure for remediating WCST deficits in chronic psychotic patients: an adaptation of errorless learning principles. Kern RS, et al. **J Psychiatr Res** 1996 Jul-Aug;30(4):283–94

Covert visual attention in schizophrenia spectrum personality disordered subjects: visuospatial cuing and alerting effects. Moran MJ, et al. **J Psychiatr Res** 1996 Jul-Aug; 30(4):261–75

Facilitation and interference of selective attention in schizophrenia. Taylor SF, et al. **J Psychiatr Res** 1996 Jul-Aug;30(4):251–9

Distractibility and symptoms in schizophrenia. Addington J, et al. **J Psychiatry Neurosci** 1997 May;22(3):180–4

Memory deficits in schizophrenia: inadequate assimilation or true amnesia? Findings from the Wechsler Memory Scale—revised. Hawkins KA, et al.
J Psychiatry Neurosci 1997 May;22(3):169–79 (24 ref.)

Reading in Arabic orthography: the effect of vowels and context on reading accuracy of poor and skilled native Arabic readers in reading paragraphs, sentences, and isolated words. Abu-Rabia S. **J Psycholinguist Res** 1997 Jul;26(4):465–82

Working memory and on-line sentence comprehension in patients with Alzheimer's disease. Waters GS, et al.
J Psycholinguist Res 1997 Jul;26(4):377–400

Vigilance and iconic memory in children at high risk for alcoholism. Steinhauer SR, et al. **J Stud Alcohol** 1997 Jul; 58(4):428–34

The art of visual neglect. Halligan PW, et al. **Lancet** 1997 Jul 12;350(9071):139–40

Academic engaged time of students with low-incidence disabilities in general education classes. McDonnell J, et al. **Ment Retard** 1997 Feb;35(1):18–26

Restricted attentional capacity within but not between sensory modalities [see comments] Duncan J, et al.
Nature 1997 Jun 19;387(6635):808–10. Comment in: Nature 1997 Jun 19;387(6635):756–7.

Abnormal temporal dynamics of visual attention in spatial neglect patients [see comments] Husain M, et al. **Nature** 1997 Jan 9;385(6612):154–6. Comment in: Nature 1997 Jan 9;385(6612):120–1.

Attentional requirements in a 'preattentive' feature search task [see comments] Joseph JS, et al. **Nature** 1997 Jun 19; 387(6635):805–7. Comment in: Nature 1997 Jun 19;387(6635):756–7.

Experimental psychology. In a blink of the mind's eye [news; comment] Wolfe JM. **Nature** 1997 Jun 19;387(6635):756–7 . Comment on: Nature 1997 Jun 19;387(6635):805–7. Comment on: Nature 1997 Jun 19;387(6635):808–10.

Pieces of the true crossover effect in neglect. Anderson B. **Neurology** 1997 Sep;49(3):809–12

Disruption of short-duration timing associated with damage to the suprachiasmatic region of the hypothalamus. Cohen RA, et al. **Neurology** 1997 Jun;48(6):1533–9

The complex interaction of normal biases in line bisection. Kashmere JL, et al. **Neurology** 1997 Sep;49(3):887–9

Spatial bias: attentional and intentional influence in normal subjects. Schwartz RL, et al. **Neurology** 1997 Jan; 48(1):234–42

Attentional mechanisms of saccadic eye movements in schizophrenia. Evans WJ, et al.
Neuropsychiatry Neuropsychol Behav Neurol 1997 Jan; 10(1):17–24

When implicit learning fails: amnesia and the problem of error elimination. Baddeley A, et al. **Neuropsychologia** 1994 Jan; 32(1):53–68

Word priming with brief multiple presentation technique: preservation in amnesia. Beauregard M, et al.
Neuropsychologia 1997 May;35(5):611–21

The lateralization of lip-reading: a second look. Campbell R, et al. **Neuropsychologia** 1996 Dec;34(12):1235–40

Priming arithmetic facts in amnesic patients. Delazer M, et al. **Neuropsychologia** 1997 May;35(5):623–34

The effect of Huntington's disease and Gilles de la Tourette's syndrome on the ability to hold and shift attention. Georgiou N, et al. **Neuropsychologia** 1996 Sep;34(9):843–51

Dissociation of visual and spatial processing in working memory. Hecker R, et al. **Neuropsychologia** 1997 May; 35(5):599–603

Sustained attention and awareness of disability in chronic neglect. Hjaltason H, et al. **Neuropsychologia** 1996 Dec; 34(12):1229–33

Deficits in the endogenous redirection of covert visual attention in chronic schizophrenia. Maruff P, et al.
Neuropsychologia 1996 Nov;34(11):1079–84

Influence of perceptual and semantic conflicts between the two halves of chimeric stimuli on the expression of visuo-spatial neglect. Peru A, et al. **Neuropsychologia** 1997 May;35(5):583–9

The effects of Parkinson's disease on the capacity to generate information randomly. Robertson C, et al.
Neuropsychologia 1996 Nov;34(11):1069–78

Sustained attention deficits in patients with right frontal lesions. Rueckert L, et al. **Neuropsychologia** 1996 Oct; 34(10):953–63

The effects of two matched memory tasks on concurrent finger tapping. Towell N, et al. **Neuropsychologia** 1994 Jan; 32(1):125–9

Visual attention in Huntington's disease: the effect of cueing on saccade latencies and manual reaction times. Tsai TT, et al. **Neuropsychologia** 1995 Dec;33(12):1617–26

Viewing music videotapes during exercise and ratings of perceived exertion. Abadie BR, et al.
Percept Mot Skills 1996 Aug;83(1):226

Effect of language dominance on cognitive processes in a Stroop task. Bahri T, et al. **Percept Mot Skills** 1997 Jun; 84(3 Pt 1):979–88

Variability of facilitation and inhibition as a function of cue validity and cue-stimulus intervals in the orienting of sustained attention. Bahri T. **Percept Mot Skills** 1997 Jun; 84(3 Pt 1):1027–39

Empirical statistics: V Evidence on the extent of the steepness bias in visual estimation of trends. Bailey CD.
Percept Mot Skills 1996 Jun;82(3 Pt 1):731–4

Stimulus complexity in reminiscence therapy and scores on the Beck Depression Inventory of a small group of nursing-home residents. Bass BA, et al.
Percept Mot Skills 1996 Jun;82(3 Pt 1):973–4

Proofreaders' decreased Stroop interference. Borzoni S, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1104–6

Induced mood and selective attention. Brand N, et al.
Percept Mot Skills 1997 Apr;84(2):455–63

Effects of training in monitoring accuracy on processing speed in mental retardation. Brewer N, et al.
Percept Mot Skills 1996 Dec;83(3 Pt 1):744–6

Illusion decrement as a function of duration of inspection and figure type. Brosvic GM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):779–83

Reaction time crossover with an interfering task. Buenaventura RS, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):867–71

Visual search of good and poor readers: effects with targets having single and combined features. Casco C, et al.
Percept Mot Skills 1996 Jun;82(3 Pt 2):1155–67

Eyewitness accuracy and gender. Casiere DA, et al.
Percept Mot Skills 1996 Dec;83(3 Pt 1):914

A problem in measuring the Stroop facilitation and interference effects: implications for measuring performance change in general. Chen JY.
Percept Mot Skills 1996 Dec;83(3 Pt 1):1059–70

Allocation of attention during word recognition by good and poor readers. Gillund B, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):899–902

Investigation of the contextual interference effect in the manipulation of the motor parameter of over-all force. Goodwin JE, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):735–43

Auditory temporal resolution in specifically language-impaired and age-matched children. Helzer JR, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1171–81

The psychological factors of a premature response based on contingent negative variation. Hiraku S, et al.
Percept Mot Skills 1996 Dec;83(3 Pt 1):1083–90

Cognitive performance after strenuous physical exercise. Hogervorst E, et al. **Percept Mot Skills** 1996 Oct; 83(2):479–88

Effects of smoking on EEG alpha asymmetry during production of random sequences of numbers. Hori T, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):827–34

Hauntings and poltergeist-like episodes as a confluence of conventional phenomena: a general hypothesis. Houran J, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1307–16 (80 ref.)

Visuospatial orienting of attention in Parkinson's disease. Hsieh S, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1307–15

Inhibition in picture naming and word reading. Ikeda S.
Percept Mot Skills 1996 Dec;83(3 Pt 2):1319–29

Transfer to changed serial position in a task of tracking a sequence of light stimuli. Inui N. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):799–802

Simple reaction time and perception of temporal order: dissociations and hypotheses. Jaśkowski P.

Percept Mot Skills 1996 Jun;82(3 Pt 1):707–30 (110 ref.)
Selective impairment of auditory processing in chronic fatigue syndrome: a comparison with multiple sclerosis and healthy controls. Johnson SK, et al. **Percept Mot Skills** 1996 Aug;83(1):51–62
Symptom reporting and interoceptive attention in panic patients. Kroeze S, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):1019–26
Processes in perception: psychological transformations of highly structured stimulus material. Lachman SJ. **Percept Mot Skills** 1996 Oct;83(2):411–8
Slow movement as a function of advancement in the Shotokan karate kata set. Layton C, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):1009–10
Performance time transformed by count as a determinant of difficulty in the Shotokan karate Heian kata set. Layton C, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):989–90
Perception of a border defined by rapidly reversing luminance contrast. Lee K, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):739–46
Smooth pursuit eye movements and stimulus predictability in children: a reply to Haishi and Kokubun [comment] LeGare M. **Percept Mot Skills** 1996 Aug;83(1):140–2. Comment on: Percept Mot Skills 1995 Dec;81(3 Pt 2):1131–7.
Gender differences during processing of the Stroop task. Mekarski JE, et al. **Percept Mot Skills** 1996 Oct;83(2):563–8
Effects of pain–incompatible imagery on tolerance of pain, heart rate, and skin resistance. Neumann W, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):939–43
Eyeblink activity in a word–naming task as a function of semantic priming and cognitive load. Ohira H. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):835–42
Effects of masked repetition priming and orthographic neighborhood in visual recognition of words. Perea M, et al. **Percept Mot Skills** 1996 Aug;83(1):179–86
The role of background in mediating apparent movement. Petersik JT. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):865–6
Dissociated contextual interference effects in children and adults. Pollock BJ, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):851–8
The total–time hypothesis and the acquisition of connected discourse as a function of mode of presentation, presentation rate, and intelligence. Riley LR, et al. **Percept Mot Skills** 1996 Aug;83(1):279–87
Attention–focusing instructions and training times in competitive youth swimmers. Sewell DF. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):915–20
Multidimensional stimulus identification: instructing subjects in the order of reporting stimulus dimensions. Shieh KK, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):995–1008
Attention and the contextual interference effect for a continuous task. Smith PJ. **Percept Mot Skills** 1997 Feb; 84(1):83–92
Evaluation of a simulation of human performance on random–digit generation: measures of concept and redundancy. Spatt J. **Percept Mot Skills** 1996 Aug; 83(1):319–22
Noise–limited detection in young and old observers. Speranza F, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):829–30
Matching proprioceptive to visual speed affected by nonkinematic parameters. Stappers PJ. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1353–4
A behavioral measure of selective listening. Takahashi M. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1483–7
Effects on eye movements of requiring an immediate reporting response during human vigilance. Takahashi M. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):803–10
The blocked–random effect in pictures and words. Toglia MP, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):976–8
Time estimation: effects of cognitive task, presentation rate, and delay. Vitulli WF, et al. **Percept Mot Skills** 1996 Dec; 83(3 Pt 2):1387–94
Comparison of passive sensory stimulations on RPE during moderate intensity exercise. White VB, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):819–25
Effects of cue validity upon performance in the attention cueing paradigm. Whitehead R, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):787–98
Computer games and information–processing skills. Yuji H. **Percept Mot Skills** 1996 Oct;83(2):643–7
Role of practice and stimulus–onset–asynchrony in modulating effects of stimulus repetition, category relation, and response compatibility in the Eriksen flanker task. Zhang H. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):1087–96
Pooling of vertical disparities by the human visual system. Adams W, et al. **Perception** 1996;25(2):165–76
Segregation of motion structure from random visual noise. Ahlström U, et al. **Perception** 1996;25(3):279–91
Nonspatial visual attention explained by spatial attention plus limited storage. de Haan E, et al. **Perception** 1996; 25(5):591–608
Regularity vs genericity in the perception of collinearity. Feldman J. **Perception** 1996;25(3):335–42
Illusory line motion in visual search: attentional facilitation or apparent motion? Kawahara J, et al. **Perception** 1996; 25(8):901–20
Phenomenal competition for poses of the human head. Kersten D, et al. **Perception** 1996;25(3):367–8
Shape constancy in pictorial relief. Koenderink JJ, et al. **Perception** 1996;25(2):155–64
Line drawings of faces reduce configural processing. Leder H. **Perception** 1996;25(3):355–66
Spatial filter combination in human pattern vision: channel interactions revealed by adaptation. Meese TS, et al. **Perception** 1996;25(3):255–77
Generalization to novel images in upright and inverted faces. Moses Y, et al. **Perception** 1996;25(4):443–61
Mach–band attenuation by adjacent stimuli: experiment and filling–in simulations. Pessoa L. **Perception** 1996; 25(4):425–42
Target localisation and identification in rapid visual search. Saarinen J. **Perception** 1996;25(3):305–11
Parts of visual form: psychophysical aspects. Siddiqi K, et al. **Perception** 1996;25(4):399–424
Texture laciness: the texture equivalent of transparency? Watanabe T, et al. **Perception** 1996;25(3):293–303
Neural mechanisms for visual memory and their role in attention. Desimone R. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13494–9 (66 ref.)
Generating 'tiger' as an animal name or a word beginning with T: differences in brain activation [published erratum appears in Proc R Soc Lond B Biol Sci 1996 Dec 22;263(1377):1755–6] Mummery CJ, et al. **Proc R Soc Lond B Biol Sci** 1996 Aug 22;263(1373):989–95
Performance on the Wisconsin Card Sorting Test in schizophrenia: perseveration in clinical subtypes. Abbruzzese M, et al. **Psychiatry Res** 1996 Aug 30; 64(1):27–33
Discrimination and response bias in memory: effects of depression severity and psychomotor retardation. Brébion G, et al. **Psychiatry Res** 1997 May 5;70(2):95–103
Genetic and developmental factors in spontaneous selective attention: a study of normal twins. Myles–Worsley M, et al. **Psychiatry Res** 1997 Aug 8;71(3):163–74
Eye–tracking dysfunction in offspring from the New York High–Risk Project: diagnostic specificity and the role of attention. Rosenberg DR, et al. **Psychiatry Res** 1997 Feb 7;66(2–3):121–30
Relationship between specific types of communication deviance and attentional performance in patients with schizophrenia. Velligan DI, et al. **Psychiatry Res** 1997 Apr 18;70(1):9–20
The moderating influence of physical fitness on age gradients in vigilance and serial choice responding tasks. Bunce DJ, et al. **Psychol Aging** 1996 Dec;11(4):671–82
Age–related equivalence of identity suppression in the Stroop color–word task. Kieley JM, et al. **Psychol Aging** 1997 Mar; 12(1):22–9
Aging, cognitive resources, and declarative learning. Kirasic KC, et al. **Psychol Aging** 1996 Dec;11(4):658–70
Sentence comprehension in Alzheimer's disease: effects of grammatical complexity, speech rate, and repetition. Small JA, et al. **Psychol Aging** 1997 Mar;12(1):3–11
Characteristics of associative learning in younger and older adults: evidence from an episodic priming paradigm. Spieler DH, et al. **Psychol Aging** 1996 Dec;11(4):607–20
Are backward words special for older adults? Weir C, et al. **Psychol Aging** 1997 Mar;12(1):145–9
Behavioral inhibition, sustained attention, and executive functions: constructing a unifying theory of ADHD. Barkley RA. **Psychol Bull** 1997 Jan;121(1):65–94 (400 ref.)
The self–reference effect in memory: a meta–analysis. Symons CS, et al. **Psychol Bull** 1997 May;121(3):371–94
Probabilistic reasoning in deluded, depressed and normal subjects: effects of task difficulty and meaningful versus non–meaningful material. Young HF, et al. **Psychol Med** 1997 Mar;27(2):455–65
The role of positive and negative affect in flashbulb memory [see comments] Scott D, et al. **Psychol Rep** 1996 Oct; 79(2):467–73. Comment in: Psychol Rep 1996 Dec;79(3 Pt 2):1169–70.
Distinctiveness is in the eye of the beholder: cross–racial differences in perceptions of faces. Van Wallendael LR, et al. **Psychol Rep** 1997 Feb;80(1):35–9
Presaccadic attention allocation and express saccades. Cavegn D, et al. **Psychol Res** 1996;59(3):157–75
Secondary–task effects on sequence learning. Heuer H, et al. **Psychol Res** 1996;59(2):119–33
The cognitive representation of action: automatic integration of perceived action effects. Hommel B. **Psychol Res** 1996; 59(3):176–86
Discrimination learning decreases perceived similarity according to an objective measure. King DL, et al. **Psychol Res** 1996;59(3):187–95
Immediately preceding stimuli increase the detection of a less detectable but not a more detectable stimulus. King DL. **Psychol Res** 1996;59(2):94–9
Effects of task instructions and oscillation frequency on bimanual coordination. Lee TD, et al. **Psychol Res** 1996; 59(2):100–6
Influences of task concreteness upon transitive responding in humans. Siemann M, et al. **Psychol Res** 1996;59(2):81–93
Measures of spatial memory and routes of learning. Wender KF, et al. **Psychol Res** 1997;59(4):269–78
A dual representation theory of posttraumatic stress disorder. Brewin CR, et al. **Psychol Rev** 1996 Oct;103(4):670–86 (190 ref.)
Language production and serial order: a functional analysis and a model. Dell GS, et al. **Psychol Rev** 1997 Jan; 104(1):123–47
Processes of memory loss, recovery, and distortion. Estes WK. **Psychol Rev** 1997 Jan;104(1):148–69
The capacity theory of comprehension: new frontiers of evidence and arguments [comment] Just MA, et al. **Psychol Rev** 1996 Oct;103(4):773–80. Comment on: Psychol Rev 1996 Oct;103(4):761–72.
The CODE theory of visual attention: an integration of space–based and object–based attention. Logan GD. **Psychol Rev** 1996 Oct;103(4):603–49 (140 ref.)
A computational theory of executive cognitive processes and multiple–task performance: Part 1. Basic mechanisms. Meyer DE, et al. **Psychol Rev** 1997 Jan;104(1):3–65 (280 ref.)
The capacity theory of sentence comprehension: critique of Just and Carpenter (1992) [comment] [see comments] Waters GS, et al. **Psychol Rev** 1996 Oct;103(4):761–72. Comment on: Psychol Rev 1992 Jan;99(1):122–49. Comment in: Psychol Rev 1996 Oct;103(4):773–80.
Visual marking: prioritizing selection for new objects by top–down attentional inhibition of old objects. Watson DG, et al. **Psychol Rev** 1997 Jan;104(1):90–122
Chronometrics of attentional processes in anxiety disorders. Horenstein M, et al. **Psychopathology** 1997;30(1):25–35
Drama–induced affect and pain sensitivity. Zillmann D, et al. **Psychosom Med** 1996 Jul–Aug;58(4):333–41
Hypochondriasis and symptom reporting—the effect of attention versus distraction. Haenen MA, et al. **Psychother Psychosom** 1996;65(1):43–48
Grammatical priming of visual word recognition in fourth–grade children. Bowey JA. **Q J Exp Psychol A** 1996 Nov;49(4):1005–23
Interference in immediate spatial memory: shifts of spatial attention or central–executive involvement? Klauer KC, et al. **Q J Exp Psychol A** 1997 Feb;50(1):79–99
Irrelevant pictures in visual working memory. Quinn JG, et al. **Q J Exp Psychol A** 1996 Feb;49(1):200–15
Interference with rehearsal in spatial working memory in the absence of eye movements. Smyth MM. **Q J Exp Psychol A** 1996 Nov;49(4):940–9
Case–marking in the parsing of complement sentences: evidence from eye movements. Traxler MJ, et al. **Q J Exp Psychol A** 1996 Nov;49(4):991–1004
Does immediate arousal enhance response force in simple reaction time? Ulrich R, et al. **Q J Exp Psychol A** 1996 Nov;49(4):972–90
The supposed effect of interactive imagery in paired associate learning. Wilton RN, et al. **Q J Exp Psychol A** 1996 Nov; 49(4):888–900
Activation of locations in working memory in cats. Goulet S, et al. **Q J Exp Psychol B** 1996 Feb;49(1):81–92
Social information processing in mild mentally retarded children. Gomez R, et al. **Res Dev Disabil** 1996 May–Jun; 17(3):217–27
Stimulus control and resistance to extinction in attention–maintained SIB. Hanley GP, et al. **Res Dev Disabil** 1997 Jul–Aug;18(4):251–60
Environmental influences on psychological restoration. Hartig T, et al. **Scand J Psychol** 1996 Dec;37(4):378–93
Foveal–to–peripheral priming in letter identification reflects response bias, not enhanced visibility. Laarni J, et al. **Scand J Psychol** 1996 Dec;37(4):394–406
Semantic distance and single cue use in category search. Saariluoma P, et al. **Scand J Psychol** 1996 Sep;37(3):317–28
Visual search for positional relationships between pattern elements. Saarinen J. **Scand J Psychol** 1996 Sep; 37(3):294–301
Lifting weights in neonates: developing visual control of reaching. van der Meer AL, et al. **Scand J Psychol** 1996 Dec;37(4):424–36
Abnormal orienting in schizotypal personality disorder. Raine A, et al. **Schizophr Bull** 1997;23(1):75–82
What determines continuous performance task performance? [published erratum appears in Schizophr Bull 1997;23(2):177] van den Bosch RJ, et al. **Schizophr Bull** 1996;22(4):643–51
Implicit and explicit associative memory in patients with schizophrenia. Bazin N, et al. **Schizophr Res** 1996 Dec 15; 22(3):241–8
Generalization effects of training on the Wisconsin Card Sorting Test for schizophrenia patients. Bellack AS, et al. **Schizophr Res** 1996 May;19(2–3):189–94
Reality monitoring failure in schizophrenia: the role of selective attention. Brébion G, et al. **Schizophr Res** 1996 Nov 15;22(2):173–80
Neuropsychological correlates of sustained attention in schizophrenia. Chen EY, et al. **Schizophr Res** 1997 Apr 11;24(3):299–310
Working memory capacity predicts language comprehension in schizophrenic patients. Condray R, et al. **Schizophr Res** 1996 May;20(1–2):1–13
Span of apprehension deficits in older outpatients with schizophrenia. Granholm E, et al. **Schizophr Res** 1996 May; 20(1–2):51–6
The Stroop effect in schizophrenic patients. Hepp HH, et al. **Schizophr Res** 1996 Dec 15;22(3):187–95
Clinical symptom dimensions and deficits on the Continuous Performance Test in schizophrenia. Liu SK, et al. **Schizophr Res** 1997 Jun 20;25(3):211–9
Preattentive and focal attentional processes in schizophrenia: a visual search study. Mori S, et al. **Schizophr Res** 1996 Oct 18;22(1):69–76
Spatial selective attention in schizophrenic, affective disorder, and normal subjects. Sereno AB, et al. **Schizophr Res** 1996 May;20(1–2):33–50
D–amphetamine challenge effects on Wisconsin Card Sort

Test. Performance in schizotypal personality disorder. Siegel BV Jr, et al. **Schizophr Res** 1996 May;20(1–2):29–32

Attentional activation of the cerebellum independent of motor involvement. Allen G, et al. **Science** 1997 Mar 28; 275(5308):1940–3

Preattentive filling-in of visual surfaces in parietal extinction. Mattingley JB, et al. **Science** 1997 Jan 31;275(5300):671–4

Two modulatory effects of attention that mediate object categorization in human cortex. Rees G, et al. **Science** 1997 Feb 7;275(5301):835–8

Cumulative sleepiness, mood disturbance, and psychomotor vigilance performance decrements during a week of sleep restricted to 4–5 hours per night. Dinges DF, et al. **Sleep** 1997 Apr;20(4):267–7

Comparison of simulated driving performance in narcolepsy and sleep apnea patients. George CF, et al. **Sleep** 1996 Nov; 19(9):711–7

Decreased attentional responsivity during sleep deprivation: orienting response latency, amplitude, and habituation. McCarthy ME, et al. **Sleep** 1997 Feb;20(2):115–23

Influence of unattended features on the processing of a single line segment. Dufour A, et al. **Spat Vis** 1995;9(3):307–24

A display controller for very brief image presentations. Finley G. **Spat Vis** 1997;10(4):417–21

Neural network method to determine the vigilance levels of the central nervous system, related to occupational chronic chemical stress. Tuulik V, et al. **Technol Health Care** 1997 Jul;5(3):243–51

Effects of hand-used on unilateral spatial neglect: a case study. Fujii T, et al. **Tohoku J Exp Med** 1996 Sep; 180(1):73–81

The effect of attentional spread on spatial resolution. Balz GW, et al. **Vision Res** 1997 Jun;37(11):1499–510

Ocular responses to motion parallax stimuli: the role of perceptual and attentional factors. Mestre DR, et al. **Vision Res** 1997 Jun;37(12):1627–41

Measuring the attentional speed-up in the motion induction effect. von Grünau M, et al. **Vision Res** 1996 Aug; 36(16):2433–46

Two contributions of motion induction: a preattentive effect and facilitation due to attentional capture. von Grünau M, et al. **Vision Res** 1996 Aug;36(16):2447–57

[Influence of parental educational practices on the sleep and attentional performances in children] Billon-Descarpentries J. **Arch Pediatr** 1997 Feb;4(2):181–5 (Eng. Abstr.) **(Fre)**

[Attention models in evaluating schizophrenia] Bernard D, et al. **Encephale** 1997 Mar–Apr;23(2):113–8 (38 ref.) (Eng. Abstr.) **(Fre)**

[Comparative study of normal subjects and obsessive compulsive subjects on intrusive thoughts and memory] Bouvard M, et al. **Encephale** 1997 May–Jun;23(3):175–9 (Eng. Abstr.) **(Fre)**

[Scoring and validation of the Clock Face Test in psychometric assessment of elderly subjects] Montani C, et al. **Encephale** 1997 May–Jun;23(3):194–9 (Eng. Abstr.) **(Fre)**

[Deficit in selective attention and its evolution in depression] Thomas J, et al. **Encephale** 1997 Mar–Apr;23(2):108–12 (Eng. Abstr.) **(Fre)**

[Disorders of early information processing and vigilance as vulnerability markers for schizophrenia] Suslow T, et al. **Fortschr Neurol Psychiatr** 1996 Mar;64(3):90–104 (81 ref.) (Eng. Abstr.) **(Ger)**

[Can "cerebral training" prevent or at least modify age-related memory loss?] Stoppe G. **Internist (Berl)** 1996 Mar; 37(3):317–8 **(Ger)**

[Examinations with the Cardiff Acuity Test] Gräf M, et al. **Ophthalmologe** 1996 Aug;93(4):333–40 (Eng. Abstr.) **(Ger)**

[Gaze behavior in infancy as an indicator of information processing] Kavšek MJ. **Prax Kinderpsychol Kinderpsychiatr** 1995 Dec; 44(10):383–90 (Eng. Abstr.) **(Ger)**

[Psychological results of mental performance in sleep deprivation] Dahms P, et al. **Wien Med Wochenschr** 1996; 146(13–14):287–9 (Eng. Abstr.) **(Ger)**

[Performance and personality of patients with hypersomnia] Mayer G, et al. **Wien Med Wochenschr** 1996; 146(13–14):298–303 (Eng. Abstr.) **(Ger)**

[Are there differences in processing times of variously complex rules in differential eyelid conditioning?] Lachnit H, et al. **Z Exp Psychol** 1996;43(4):571–84 (Eng. Abstr.) **(Ger)**

[Categorization in infancy: differentiation of global object classes] Pauen S. **Z Exp Psychol** 1996;43(4):600–24 (Eng. Abstr.) **(Ger)**

[Analysis of interference effects in simultaneous processing of 2 problems] Schubert T. **Z Exp Psychol** 1996; 43(4):625–56 (Eng. Abstr.) **(Ger)**

[Mental images and mental models] Klauer KC, et al. **Z Psychol Z Angew Psychol** 1996;204(1):41–54 (Eng. Abstr.) **(Ger)**

[The process and effect of heaviness exercise in autogenic training: factor analytical study of subjective response induced by the concentration upon and formal language of the sense of heaviness in the arm] Ikezuki M, et al. **Shinrigaku Kenkyu** 1996 Feb;66(6):443–8 (Eng. Abstr.) **(Jpn)**

[Nonlinearity of interference in recognition memory for multiple contexts] Terasawa T. **Shinrigaku Kenkyu** 1996 Jun;67(2):141–6 (Eng. Abstr.) **(Jpn)**

[The negative priming effect as an inhibitory phenomenon] Yokoyama H. **Shinrigaku Kenkyu** 1996 Dec;67(5):410–4 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Effects of benzodiazepines, sleep and sleep deprivation on vigilance and memory. Coenen AM, et al. **Acta Neurol Belg** 1997 Jun;97(2):123–9

Relation between executive cognitive functioning and the adverse consequences of alcohol use in social drinkers. Giancola PR, et al. **Alcohol Clin Exp Res** 1996 Sep; 20(6):1094–8

Maternal attentiveness of cocaine abusers during child-based assessments. Ball SA, et al. **Am J Addict** 1997 Spring; 6(2):135–43

Absence of neglect for mental representations during the intracarotid amobarbital procedure. Manoach DS, et al. **Arch Neurol** 1996 Apr;53(4):333–6

The effects of 600 mg of slow release caffeine on mood and alertness. Sicard BA, et al. **Aviat Space Environ Med** 1996 Sep;67(9):859–62

Primacy and recency effects in rhesus monkeys (Macaca mulatta) using a serial probe recognition task: II. Effects of atropine sulfate. Castro CA. **Behav Neurosci** 1997 Aug; 111(4):676–82

Effects of sex and MK-801 on auditory-processing deficits associated with developmental microgyric lesions in rats. Fitch RH, et al. **Behav Neurosci** 1997 Apr;111(2):404–12

Effects of ethanol on nonspatial working memory and attention in rats. Givens B, et al. **Behav Neurosci** 1997 Apr; 111(2):275–82

Analyses of response patterns clarify lead effects in olfactory reversal and extradimensional shift tasks: assessment of inhibitory control, associative ability, and memory. Hilson JA, et al. **Behav Neurosci** 1997 Jun;111(3):532–42

Effects of the PCP analog dizocilpine on sensory gating: potential relevance to clinical subtypes of schizophrenia. al-Amin HA, et al. **Biol Psychiatry** 1996 Oct 15; 40(8):744–54

Impact of neuroleptic medications on continuous performance test measures in schizophrenia. Epstein JI, et al. **Biol Psychiatry** 1996 May 15;39(10):902–5

Effects of methylphenidate on event-related potentials and performance of attention-deficit hyperactivity disorder children in auditory and visual selective attention tasks. Jonkman LM, et al. **Biol Psychiatry** 1997 Mar 15; 41(6):690–702

Auditory event-related potentials, auditory digit span, and clinical symptoms in chronic schizophrenic men on neuroleptic medication. Stefánsson SB, et al. **Biol Psychiatry** 1996 Jul 1;40(1):19–27

Antipsychotic drug effects in a model of schizophrenic attentional disorder: a randomized controlled trial of the effects of haloperidol on latent inhibition in healthy people. Williams JH, et al. **Biol Psychiatry** 1996 Dec 1; 40(11):1135–43

Mismatch negativity subcomponents and ethyl alcohol. Jääskeläinen IP, et al. **Biol Psychol** 1996 Mar 8;43(1):13–25

Lack of relationship between thalamic oscillations and attention in rats: differential modulation by an alpha-2 antagonist. Puumala T, et al. **Brain Res Bull** 1997; 43(2):163–71

Neuronal mechanisms mediating drug-induced cognition enhancement: cognitive activity as a necessary intervening variable. Sarter M, et al. **Brain Res Cogn Brain Res** 1996 Jun;3(3–4):329–43 (127 ref.)

Pupillometric assessment of compensatory effort in a memory search task under physical and pharmacologically-induced suboptimal states. Deijen JB, et al. **Can J Exp Psychol** 1995 Sep;49(3):387–96

Enhancement of attention processing by Kantroll in healthy humans: a pilot study. DeFrance JF, et al. **Clin Electroencephalogr** 1997 Apr;28(2):68–75

Prenatal cocaine exposure effects on arousal-modulated attention during the neonatal period. Karmel BZ, et al. **Dev Psychobiol** 1996 Jul;29(5):463–80

Visual attention in infant monkeys: effects of dietary fatty acids and age. Reisbick S, et al. **Dev Psychol** 1997 May; 33(3):387–95

Effect of topiramate on attention. Burton LA, et al. **Epilepsy Res** 1997 Apr;27(1):29–32

Differential effects of three 5-HT receptor antagonists on the performance of rats in attentional and working memory tasks. Ruotsalainen S, et al. **Eur Neuropsychopharmacol** 1997 May;7(2):99–108

Effects of lorazepam on the distribution of spatial attention. Post RB, et al. **Exp Clin Psychopharmacol** 1997 May; 5(2):143–9

Impairment of psychological functions in children environmentally exposed to lead. Dudek B, et al. **Int J Occup Med Environ Health** 1997;10(1):37–46

Effects of methylphenidate on attention and nonverbal learning in children with attention-deficit hyperactivity disorder. O'Toole K, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):531–8

Error patterns on the continuous performance test in non-medicated and medicated samples of children with and without ADHD: a meta-analytic review. Losier BJ, et al. **J Child Psychol Psychiatry** 1996 Nov;37(8):971–87

Effects of prenatal exposure to opioids on focused attention in toddlers during free play. Schneider JW, et al. **J Dev Behav Pediatr** 1996 Aug;17(4):240–7

Illustrating caffeine's pharmacological and expectancy effects utilizing a balanced placebo design. Lotshaw SC, et al. **J Drug Educ** 1996;26(1):13–24

Effects of cocaine on briefly signaled versus completely signaled delays to reinforcement. Walker DJ, et al. **J Exp Anal Behav** 1996 Mar;65(2):375–88

Visual attention in children with prenatal cocaine exposure. Heffelfinger A, et al. **J Int Neuropsychol Soc** 1997 May; 3(3):237–45

Effect of haloperidol on nicotine-induced enhancement of vigilance in human subjects. Lee C, et al. **J Psychopharmacol (Oxf)** 1997;11(3):253–7

Intravenous administration of haloperidol to healthy volunteers: lack of subjective effects but clear objective effects. Williams JH, et al. **J Psychopharmacol (Oxf)** 1997; 11(3):247–52

Step initiation in Parkinson's disease: influence of levodopa and external sensory triggers. Burleigh-Jacobs A, et al. **Mov Disord** 1997 Mar;12(2):206–15

Influence of moclobemide on cognitive functions of nine depressed patients: pilot trial with neurophysiological and neuropsychological indices. Galderisi S, et al. **Neuropsychobiology** 1996;33(1):48–54

Cholecystokinin-induced effects on selective attention depend on level of activation. Pietrowsky R, et al. **Neuropsychobiology** 1997;36(2):87–95

The use of diurnal vigilance changes in the EEG to verify vigilance-enhancing effects of memantine in a clinical pharmacological study. Schulz H, et al. **Neuropsychobiology** 1996;33(1):32–40

Effects of the tranquillizer diazepam and the stimulant methylphenidate on alertness and memory. Unrug A, et al. **Neuropsychobiology** 1997;36(1):42–8

The effect of decreased catecholamine transmission on ERP indices of selective attention. Shelley AM, et al. **Neuropsychopharmacology** 1997 Mar;16(3):202–10

Frontal dysfunction blocks the therapeutic effect of THA on attention in Alzheimer's disease. Riekkinen P Jr, et al. **Neuroreport** 1997 May 27;8(8):1845–9

Sleep and signs of attention during 3 months of intranasal vasopressin: a pilot study in two elderly subjects. Perras B, et al. **Peptides** 1996;17(7):1253–5

GABAergic drugs inhibit amphetamine-induced distractibility in the rat. Agmo A, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):119–26

MCI-225, a novel thienopyrimidine analog, enhances attentional eye tracking in midpontine pretrigeminal preparation. Eguchi J, et al. **Pharmacol Biochem Behav** 1997 Feb;56(2):229–34

Dexmedetomidine reduces response tendency, but not accuracy of rats in attention and short-term memory tasks. Ruotsalainen S, et al. **Pharmacol Biochem Behav** 1997 Jan; 56(1):31–40

Effect of fenfluramine on food intake, mood, and performance of humans living in a residential laboratory. Foltin RW, et al. **Physiol Behav** 1996 Feb;59(2):295–305

Normal sustained effects of selective attention are absent in schizophrenic patients withdrawn from medication. Salo R, et al. **Psychiatry Res** 1996 May 17;62(2):121–30

Effects of ORG-2766 on brain event-related potentials of autistic children. Verbaten MN, et al. **Psychiatry Res** 1996 Jun 26;63(1):33–45

Betel nut chewing and selected psychophysiological variables. Wyatt TA. **Psychol Rep** 1996 Oct;79(2):451–63

The alpha(2) antagonist idazoxan remediates certain attentional and executive dysfunction in patients with dementia of frontal type. Coull JT, et al. **Psychopharmacology (Berl)** 1996 Feb;123(3):239–49

Effect of ethanol on sustained attention in rats. Givens B. **Psychopharmacology (Berl)** 1997 Jan;129(2):135–40

Opioid modulation of attention-related responses: delta-receptors modulate habituation and conditioned bradycardia. Hernández LL, et al. **Psychopharmacology (Berl)** 1997 May;131(2):140–7

Effects of the novel NMDA-receptor antagonist SDZ EAA 494 on memory and attention in humans. Rockstroh S, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):261–6

Enhanced psychophysiological signs of attention after angiotensin-converting enzyme inhibition by captopril. Derad I, et al. **Psychophysiology** 1996 May;33(3):295–301

Chronic haloperidol treatment does not affect structure of attention in schizophrenia. Allen DN, et al. **Schizophr Res** 1997 May 3;25(1):53–61

Cocaine wreaks subtle damage on developing brains [news] Vogel G. **Science** 1997 Oct 3;278(5335):38–9

The effects of vigabatrin on attention, concentration and mood: an investigation in healthy volunteers. Thomas L, et al. **Seizure** 1996 Sep;5(3):205–8

[Effect of low alcohol concentrations on visual attention in street traffic] Buser A, et al. **Ophthalmologe** 1996 Aug; 93(4):371–6 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Antisaccadic eye movements and attentional asymmetry in schizophrenia in three Pacific populations. Allen JS, et al. **Acta Psychiatr Scand** 1996 Oct;94(4):258–65

Transient motion of visual texture delays saccadic eye movements. Crawford TJ. **Acta Psychol (Amst)** 1996 Aug; 92(3):251–62

Magnitude versus parity in numerical judgements: event-related brain potentials implicate response conflict as the source of interference. Otten LJ, et al. **Acta Psychol (Amst)** 1996 Oct;94(1):21–40

The effects of foveal load and visual context on peripheral letter recognition. Salvemini AV, et al. **Acta Psychol (Amst)** 1996 Aug;92(3):309–21

Functional MR to localize sustained visual attention activation in patients with attention deficit hyperactivity disorder: a pilot study. Sunshine JL, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):633–7

No electrocortical evidence of automatic mismatch dysfunction in children of alcoholics. van der Stelt O, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):569–75

The role of selective attention in driving and dementia of the Alzheimer type. Duchek JM, et al. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:48–56 (32 ref.)

Amygdaloid control of alerting and behavioral arousal in rats: involvement of serotonergic mechanisms. Sanford LD, et al. **Arch Ital Biol** 1995 Dec;134(1):81–99

The influence of attentional factors on short- and long-latency jaw reflexes in man. Cadden SW, et al. **Arch Oral Biol** 1996 Oct;41(10):995–8

Assessing aspects of auditory handicap by means of pupil dilatation. Kramer SE, et al. **Audiology** 1997 May–Jun; 36(3):155–64

Visual scanning and pilot expertise: the role of attentional flexibility and mental model development. Bellenkes AH, et al. **Aviat Space Environ Med** 1997 Jul;68(7):569–79

Effects of overlay symbology in night vision goggles on accommodation and attention shift. Schor CM, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1039–47

Disconnection of medial agranular and posterior parietal cortex produces multimodal neglect in rats. Burcham KJ, et al. **Behav Brain Res** 1997 Jun;86(1):41–7

Effects of aspiration lesions of hippocampus or overlying neocortex on concurrent and configural object discriminations in rats. Deacon RM, et al. **Behav Brain Res** 1996 May;77(1–2):165–74

Electrolytic lesions of the medial prefrontal cortex in rats disrupt performance on an analog of the Wisconsin Card Sorting Test, but do not disrupt latent inhibition: implications for animal models of schizophrenia. Joel D, et al. **Behav Brain Res** 1997 May;85(2):187–201

Effect of lesioning the nucleus accumbens on attentive preparation and performance of a reaching movement in the cat. Montaron MF, et al. **Behav Brain Res** 1996 Sep; 79(1–2):31–40

Effects of telencephalic ablation on short-term memory and attention in goldfish. Ohnishi K. **Behav Brain Res** 1997 Jul; 86(2):191–9

Visuospatial attention in the rat and posterior parietal cortex lesions. Rosner AL, et al. **Behav Brain Res** 1996 Sep; 79(1–2):69–77

Unilateral frontal cortex ablation producing neglect causes time-dependent changes in striatal glutamate receptors. Vargo JM, et al. **Behav Brain Res** 1996 May;77(1–2):189–99

Visual orienting and alerting in rhesus monkeys: comparison with humans. Witte EA, et al. **Behav Brain Res** 1996 Dec; 82(1):103–12

Interactions between contact and chemosensory mechanisms in pain modulation in 10-day-old rats. Blass EM. **Behav Neurosci** 1997 Feb;111(1):147–54

Primate analogue of the Wisconsin Card Sorting Test: effects of excitotoxic lesions of the prefrontal cortex in the marmoset. Dias R, et al. **Behav Neurosci** 1996 Oct; 110(5):872–86

Lack of effects of lesions of the dorsal noradrenergic bundle on behavioral vigilance. McGaughy J, et al. **Behav Neurosci** 1997 Jun;111(3):646–52

Cortico-hippocampal representations in simultaneous odor discrimination: a computational interpretation of Eichenbaum, Mathews, and Cohen (1989). Myers CE, et al. **Behav Neurosci** 1996 Aug;110(4):685–706

Vernier and grating acuity in adult hooded rats: the influence of sex. Seymoure P, et al. **Behav Neurosci** 1997 Aug; 111(4):792–800

Time course of attentional bias for threat information in non-clinical anxiety. Mogg K, et al. **Behav Res Ther** 1997 Apr;35(4):297–303

Cognitive content specificity in selective attention across four domains of maladjustment. Westra HA, et al. **Behav Res Ther** 1997 Apr;35(4):349–65

Human P50 suppression is not affected by variations in wakeful alertness. Cardenas VA, et al. **Biol Psychiatry** 1997 Apr 15;41(8):891–901

P50 suppression among schizophrenia and normal comparison subjects: a methodological analysis. Clementz BA, et al. **Biol Psychiatry** 1997 May 15;41(10):1035–44

Sensory gating in a computer model of the CA3 neural network of the hippocampus. Flach KA, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1230–45

PET brain mapping study of auditory verbal supraspan memory versus visual fixation in schizophrenia. Ganguli R, et al. **Biol Psychiatry** 1997 Jan 1;41(1):33–42

Brain metabolism patterns are sensitive to attentional effort associated with a tone recognition task. Holcomb HH, et al. **Biol Psychiatry** 1996 Jun 15;39(12):1013–22

Event-related potentials and performance of attention-deficit hyperactivity disorder: children and normal controls in auditory and visual selective attention tasks. Jonkman LM, et al. **Biol Psychiatry** 1997 Mar 1;41(5):595–611

Mismatch negativity during attend and ignore conditions in Alzheimer's disease. Kazmerski VA, et al. **Biol Psychiatry** 1997 Sep 1;42(5):382–402

Psychophysiological and clinical value of event-related potentials in obsessive-compulsive disorder. Morault PM, et al. **Biol Psychiatry** 1997 Jul 1;42(1):46–56

Impaired attention-dependent augmentation of MMN in nonparanoid vs paranoid schizophrenic patients: a comparison with obsessive-compulsive disorder and healthy subjects. Oades RD, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1196–210

N400 abnormalities in late life schizophrenia and related psychoses. Olichney JM, et al. **Biol Psychiatry** 1997 Jul 1;42(1):13–23

Heterogeneity of information-processing alterations according to dimensions of depression: an event-related potentials study. Pierson A, et al. **Biol Psychiatry** 1996 Jul 15;40(2):98–115

Single trial analysis of event related potentials: a comparison between schizophrenics and depressives. Röschke J, et al. **Biol Psychiatry** 1996 Nov 1;40(9):844–52

Left lateralized P300 amplitude deficit in schizophrenic patients depends on pitch disparity. Weisbrod M, et al. **Biol Psychiatry** 1997 Mar 1;41(5):541–9

Auditory event-related potentials in mentally retarded subjects during active and passive oddball experiments. Zurrón M, et al. **Biol Psychiatry** 1997 Jan 15;41(2):201–8

Uninformative symbolic cues may bias visual-spatial attention: behavioral and electrophysiological evidence. Eimer M. **Biol Psychol** 1997 Jun 20;46(1):67–71

An event-related potential (ERP) study of transient and sustained visual attention to color and form. Eimer M. **Biol Psychol** 1997 Jan 31;44(3):143–60

Focussing on aging: an electrophysiological exploration of spatial and attentional processing during reading. Gunter TC, et al. **Biol Psychol** 1996 Apr 12;43(2):103–45

Feature processing and attention in the human visual system: an overview. Heslenfeld DJ, et al. **Biol Psychol** 1997 Mar 21;45(1–3):183–215

Shifting attention between global features and small details: an event-related potential study. Kotchoubey B, et al. **Biol Psychol** 1997 Jun 20;46(1):25–50

Modulation of auditory responses during oddball tasks. Rockstroh B, et al. **Biol Psychol** 1996 Mar 8;43(1):41–55

Effects of lateralized cues on the processing of lateralized auditory stimuli. Schröger E, et al. **Biol Psychol** 1996 Jun 28;43(3):203–26

Effects of intermodality change and number of training trials on electrodermal orienting and on the allocation of processing resources. Siddle DA, et al. **Biol Psychol** 1996 Mar 8;43(1):57–67

An electrophysiological study of the selection of the color and shape of alphanumeric characters in response choice. Smid HG, et al. **Biol Psychol** 1997 Jan 31;44(3):161–85

The locus of interference in the Simon effect: an ERP study. Valle-Inclán F. **Biol Psychol** 1996 Apr 12;43(2):147–62

Modulation of early ERP components with peripheral precues: a trend analysis. van der Lubbe RH, et al. **Biol Psychol** 1997 Mar 21;45(1–3):143–58

Selective processing of superimposed objects: an electrophysiological analysis of object-based attentional selection. Weber TA, et al. **Biol Psychol** 1997 Mar 21; 45(1–3):159–82

What do cancer patients mean when they complain of concentration and memory problems? Cull A, et al. **Br J Cancer** 1996 Nov;74(10):1674–9

Spatial- and object-based attentional deficits in Alzheimer's disease. Relationship to HMPAO-SPECT measures of parietal perfusion. Buck BH, et al. **Brain** 1997 Jul;120 (Pt 7):1229–44

Visual neglect in the monkey. Representation and disconnection. Gaffan D, et al. **Brain** 1997 Sep;120 (Pt 9):1647–57

Cerebral activation during performance of a card sorting test. Nagahama Y, et al. **Brain** 1996 Oct;119 (Pt 5):1667–75

The generation and subtraction of sensory expectations within cerebellum-like structures. Bell C, et al. **Brain Behav Evol** 1997;50 Suppl 1:17–31 (60 ref.)

Responses to moving small-field stimuli by the praying mantis, Sphodromantis lineola (Burmeister). Prete FR, et al. **Brain Behav Evol** 1996;47(1):42–54

Inhibitory mechanisms of neural and cognitive control: applications to selective attention and sequential action. Houghton G, et al. **Brain Cogn** 1996 Feb;30(1):20–43 (91 ref.)

Effect of stimulus number, target-to-distractor ratio, and motor speed on visual spatial search quality following traumatic brain injury. Geldmacher DS, et al. **Brain Inj** 1997 Jan;11(1):59–66

Exploratory-motor task to evaluate right frontal lobe damage. Maeshima S, et al. **Brain Inj** 1997 Mar;11(3):211–7

Reading errors following right hemisphere injection of sodium amobarbital. Schwartz TH, et al. **Brain Lang** 1997 Jun 1;58(1):70–91

Bisection performance indicates spatial word representation. Fischer MH. **Brain Res Cogn Brain Res** 1996 Oct; 4(3):163–70

Attention control: explorations of the work of an executive controller. Gopher D. **Brain Res Cogn Brain Res** 1996 Dec; 5(1–2):23–38 (51 ref.)

Orienting a spatial attention--its reflexive, compensatory, and voluntary mechanisms. Hikosaka O, et al. **Brain Res Cogn Brain Res** 1996 Dec;5(1–2):1–9 (32 ref.)

Attention and stimulus processing in the rat. Muir JL. **Brain Res Cogn Brain Res** 1996 Jun;3(3–4):215–25 (77 ref.)

Representation of object-centered space in the primate frontal lobe. Olson CR, et al. **Brain Res Cogn Brain Res** 1996 Dec;5(1–2):147–56 (32 ref.)

Stimulus-driven facilitation and inhibition of visual information processing in environmental and retinotopic representations of space. Shimojo S, et al. **Brain Res Cogn Brain Res** 1996 Dec;5(1–2):11–21 (14 ref.)

Measurement of cognitive function: relating rodent performance with human minds. Steckler T, et al. **Brain Res Cogn Brain Res** 1996 Jun;3(3–4):299–308 (90 ref.)

Age-related changes in cognitive ERPs of attenuation. DeFrance JF, et al. **Brain Topogr** 1997 Summer;9(4):283–93

Prefrontal deficits in attention and inhibitory control with aging. Chao LL, et al. **Cereb Cortex** 1997 Jan–Feb;7(1):63–9

Heart rate and behavioral measures of attention in six-, nine-, and twelve-month-old infants during object exploration. Lansink JM, et al. **Child Dev** 1997 Aug;68(4):610–20

P50 changes with visual interference in normal subjects: a sensory distraction model for schizophrenia. Jin Y, et al. **Clin Electroencephalogr** 1996 Jul;27(3):151–4

Spatial brain coherence during the establishment of a conscious event [editorial] Baars BJ. **Conscious Cogn** 1997 Mar;6(1):1–2

Constraints on awareness, attention, processing, and memory: some recent investigations with ignored speech. Cowan N, et al. **Conscious Cogn** 1997 Jun–Sep;6(2–3):182–203 (34 ref.)

Attention, awareness, and the triangular circuit. LaBerge D. **Conscious Cogn** 1997 Jun–Sep;6(2–3):149–81 (120 ref.)

Attention and semantic priming: a review of prime task effects. Maxfield L. **Conscious Cogn** 1997 Jun–Sep; 6(2–3):204–18 (32 ref.)

Parallels between perception without attention and perception without awareness. Merikle PM, et al. **Conscious Cogn** 1997 Jun–Sep;6(2–3):219–36

Negative priming, attention, and discriminating the present from the past. Milliken B, et al. **Conscious Cogn** 1997 Jun–Sep;6(2–3):308–27

Limited capacity of any realizable perceptual system is a sufficient reason for attentive behavior. Tsotsos JK. **Conscious Cogn** 1997 Jun–Sep;6(2–3):429–36

Eye movements and attention. van der Heijden AH, et al. **Conscious Cogn** 1997 Jun–Sep;6(2–3):437–40

Successive approximations to an adequate model of attention. van der Heijden AH, et al. **Conscious Cogn** 1997 Jun–Sep; 6(2–3):413–28 (54 ref.)

The novelty effect in recovered hemineglect. Bartolomeo P. **Cortex** 1997 Jun;33(2):323–32

Personal versus extrapersonal neglect: a group study of their dissociation using a reliable clinical test. Beschin N, et al. **Cortex** 1997 Jun;33(2):379–84

Correlated auditory asymmetries in lexical and nonlexical tasks. Boles DB, et al. **Cortex** 1996 Sep;32(3):537–45

Alien hand syndrome: influence of neglect on the clinical presentation of frontal and callosal variants. Chan JL, et al. **Cortex** 1997 Jun;33(2):287–99

A dissociation in naming digits and colors following commissurotomy. Corballis MC. **Cortex** 1996 Sep; 32(3):515–25

Bisection and perception of horizontal lines in normal children. Dellatolas G, et al. **Cortex** 1996 Dec;32(4):705–15

Hand, space and attentional asymmetries in goal-directed manual aiming. Hodges NJ, et al. **Cortex** 1997 Jun; 33(2):251–69

Form-specific priming and functional brain asymmetries in perceptual identification. Koivisto M. **Cortex** 1996 Sep; 32(3):527–36

The role of attention in visual bilateral matching tasks. Moes PE, et al. **Cortex** 1996 Dec;32(4):631–46

Anatomical and neurological correlates of acute and chronic visuospatial neglect following right hemisphere stroke. Samuelsson H, et al. **Cortex** 1997 Jun;33(2):271–85

Neurophysiology: neural fingerprints of visual attention. Groh JM, et al. **Curr Biol** 1996 Nov 1;6(11):1406–9 (17 ref.)

Visual attention: spotlights, highlights and visual awareness. Newsome WT. **Curr Biol** 1996 Apr 1;6(4):357–60 (19 ref.)

Competitive brain activity in visual attention. Duncan J, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):255–61 (76 ref.)

The role of the anterior cingulate in automatic and controlled processes: a developmental neuroanatomical study. Casey BJ, et al. **Dev Psychobiol** 1997 Jan;30(1):61–9

The heart rate deceleratory response in low-risk human fetuses: effect of stimulus intensity on response topography. Grocme LJ, et al. **Dev Psychobiol** 1997 Mar;30(2):103–13

The N2pc component as an indicator of attentional selectivity. Eimer M. **Electroencephalogr Clin Neurophysiol** 1996 Sep; 99(3):225–34

Evidence of visual processing negativity with attention to orientation and color in central space. Karayanidis F, et al. **Electroencephalogr Clin Neurophysiol** 1997 Aug; 103(2):282–97

Activation of a distributed somatosensory cortical network in the human brain: a dipole modelling study of magnetic fields evoked by median nerve stimulation. Part II: Effects of stimulus rate, attention and stimulus detection. Mauguière F, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jul;104(4):290–5

On-line brain potential correlates of right parietal patients' attentional deficit. Verleger R, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov;

99(5):444–57
Effects of attention on visual ERPs in children with specific learning disability. Brigell MG, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:275–82
ERPS reflecting parallel and serial processing of colour arrays. Eals M, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:301–13
Assessing vigilance through a brief pencil and paper letter cancellation task (LCT): effects of one night of sleep deprivation and of the time of day. Casagrande M, et al. **Ergonomics** 1997 Jun;40(6):613–30
Activity of single motor units in attention–demanding tasks: firing pattern in the human trapezius muscle. Waersted M, et al. **Eur J Appl Physiol** 1996;72(4):323–9
The neural correlates of the noradrenergic modulation of human attention, arousal and learning. Coull JT, et al. **Eur J Neurosci** 1997 Mar;9(3):589–98
Effects of concurrent phenylalanine levels on sustained attention and calculation speed in patients treated early for phenylketonuria. Schmidt E, et al. **Eur J Pediatr** 1996 Jul; 155 Suppl 1:S82–6
Deficits in selective and sustained attention processes in early treated children with phenylketonuria--result of impaired frontal lobe functions? Weglage J, et al. **Eur J Pediatr** 1996 Mar;155(3):200–4
Hemispatial neglect in the visual hallucination of a patient with Anton's syndrome. Suzuki K, et al. **Eur Neurol** 1997; 37(1):63–4
Attention–related neurons in the supplementary eye field of the macaque monkey. Bon L, et al. **Exp Brain Res** 1997 Jan;113(1):180–5
Reaction times of vertical prosaccades and antisaccades in gap and overlap tasks. Goldring J, et al. **Exp Brain Res** 1997 Jan;113(1):88–103
Hand deviations away from visual cues: indirect evidence for inhibition. Howard LA, et al. **Exp Brain Res** 1997 Jan; 113(1):144–52
Effects of spatial attention on directional manual and ocular responses. Sheliga BM, et al. **Exp Brain Res** 1997 Apr; 114(2):339–51
Attention and distraction: effects on gut perception. Accarino AM, et al. **Gastroenterology** 1997 Aug;113(2):415–22
Facial interpretation and component consistency. Sullivan LA, et al. **Genet Soc Gen Psychol Monogr** 1996 Nov; 122(4):389–404
Attention, configuration, and hippocampal function. Buhusi CV, et al. **Hippocampus** 1996;6(6):621–42
Thought disorder, working memory and attention: interrelationships and the effects of neuroleptic medications. Goldberg TE, et al. **Int Clin Psychopharmacol** 1995 Sep;10 Suppl 3:99–104 (46 ref.)
Motor programs of spontaneous and visually guided saccades in macaque monkey: an electrophysiological approach. Lucchetti C, et al. **Int J Neurosci** 1997 Jun;90(1–2):37–43
EEG delta activity: an indicator of attention to internal processing during performance of mental tasks. Harmony T, et al. **Int J Psychophysiol** 1996 Nov;24(1–2):161–71
Event–related desynchronization (ERD) and the Dm effect: does alpha desynchronization during encoding predict later recall performance? Klimesch W, et al. **Int J Psychophysiol** 1996 Nov;24(1–2):47–60
P300 and allocation of attention in dual–tasks. Nash AJ, et al. **Int J Psychophysiol** 1996 Oct;23(3):171–80
Neuropsychology of selective attention and magnetic cortical stimulation. Sabatino M, et al. **Int J Psychophysiol** 1996 Feb–Mar;21(2–3):83–9
Sustained attention in combat–related posttraumatic stress disorder. Golier J, et al. **Integr Physiol Behav Sci** 1997 Jan–Mar;32(1):52–61
Evidence of the origin of specific spontaneous head turns during intertrial intervals. Korhonen T, et al. **Integr Physiol Behav Sci** 1997 Apr–Jun;32(2):123–30
Distinguishing subcortical and cortical influences in visual attention. Subcortical attentional processing. Zackon DH, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):364–71
Autonomic orienting and the allocation of processing resources in schizophrenia patients and putatively at–risk individuals. Hazlett EA, et al. **J Abnorm Psychol** 1997 May; 106(2):171–81
Behavioral and neurophysiological evidence for altered processing of anxiety–related words in panic disorder. Pauli P, et al. **J Abnorm Psychol** 1997 May;106(2):213–20
Short–term temporal integration: evidence for the influence of peripheral compression. Oxenham AJ, et al. **J Acoust Soc Am** 1997 Jun;101(6):3676–87
Effect of monaural and binaural altered auditory feedback on stuttering frequency. Stuart A, et al. **J Acoust Soc Am** 1997 Jun;101(6):3806–9
Toward a standard experiment for studying post–treatment return of fear. Rose MP, et al. **J Anxiety Disord** 1997 May–Jun;11(3):263–77
Psychological coping with acute pain: an examination of the role of endogenous opioid mechanisms. Bruehl S, et al. **J Behav Med** 1996 Apr;19(2):129–42
Thyroid hormone and attention in school–age children with congenital hypothyroidism. Rovet J, et al. **J Child Psychol Psychiatry** 1996 Jul;37(5):579–85
Computerized assessment of sustained attention: a review of factors affecting vigilance performance. Ballard JC. **J Clin Exp Neuropsychol** 1996 Dec;18(6):843–63 (231 ref.)
Computerized assessment of sustained attention: interactive effects of task demand, noise, and anxiety. Ballard JC. **J Clin Exp Neuropsychol** 1996 Dec;18(6):864–82
Effect of directed attention in Huntington's disease. Georgiou N, et al. **J Clin Exp Neuropsychol** 1997 Jun;19(3):367–77
Forgetting rate and interference effects on a verbal memory distractor task in patients with temporal lobe epilepsy. Giovagnoli AR, et al. **J Clin Exp Neuropsychol** 1996 Apr; 18(2):259–64
Directional hyperattention in tactile neglect within grasping space. Haeske–Dewick HC, et al. **J Clin Exp Neuropsychol** 1996 Oct;18(5):724–32
Automatic semantic facilitation in Alzheimer's disease. Silveri MC, et al. **J Clin Exp Neuropsychol** 1996 Jun;18(3):371–82
Deficits of attention after closed–head injury: slowness only? Spikman JM, et al. **J Clin Exp Neuropsychol** 1996 Oct; 18(5):755–67
Evaluation of attention before and after 2 years of growth hormone treatment in intrauterine growth retarded children. van der Reijden–Lakeman IE, et al. **J Clin Exp Neuropsychol** 1997 Feb;19(1):101–18
Sustained attention in untreated non–PKU–hyperphenylalaninemia. Weglage J, et al. **J Clin Exp Neuropsychol** 1996 Jun;18(3):343–8
Body vigilance in panic disorder: evaluating attention to bodily perturbations. Schmidt NB, et al. **J Consult Clin Psychol** 1997 Apr;65(2):214–20
Dichotic listening in children: the reflection of verbal and attentional changes with age. Lamm O, et al. **J Exp Child Psychol** 1997 Apr;65(1):25–42
Mnemonic search, but not arithmetic transformation, is associated with psychophysiological inhibition. Jennings JR, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb; 23(1):154–67
Perception without attention: evidence of grouping under conditions of inattention. Moore CM, et al. **J Exp Psychol Hum Percept Perform** 1997 Apr;23(2):339–52
Personal names and the attentional blink: a visual "cocktail party" effect. Shapiro KL, et al. **J Exp Psychol Hum Percept Perform** 1997 Apr;23(2):504–14
Focused attention distorts visual space: an attentional repulsion effect. Suzuki S, et al. **J Exp Psychol Hum Percept Perform** 1997 Apr;23(2):443–63
Temporal structure of syntactic parsing: early and late event–related brain potential effects. Friederici AD, et al. **J Exp Psychol Learn Mem Cogn** 1996 Sep;22(5):1219–48
Effect of relevance shifts in category acquisition: a test of neural networks. Macho S. **J Exp Psychol Learn Mem Cogn** 1997 Jan;23(1):30–53
Controlled and automatic forms of memory and attention: process purity and the uniqueness of age–related influences. Salthouse TA, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Sep;52(5):P216–28
An examination of the nature of attentional deficits in patients with Parkinson's disease: evidence from a spatial orienting task. Filoteo JV, et al. **J Int Neuropsychol Soc** 1997 Jul; 3(4):337–47
Attentional factors in response time variability after traumatic brain injury: an ERP study. Segalowitz SJ, et al. **J Int Neuropsychol Soc** 1997 Mar;3(2):95–107
The neuropsychology of object constancy. Turnbull OH, et al. **J Int Neuropsychol Soc** 1997 May;3(3):288–98 (109 ref.)
The effect of the presentation of visual and auditory stimuli on the breathing patterns of two girls with Rett syndrome. Woodyatt GC, et al. **J Intellect Disabil Res** 1996 Jun;40 (Pt 3):252–9
Ineffective leftward search in line bisection and mechanisms of left unilateral spatial neglect. Ishiai S, et al. **J Neurol** 1996 May;243(5):381–7
Visual, presaccadic, and cognitive activation of single neurons in monkey lateral intraparietal area. Colby CL, et al. **J Neurophysiol** 1996 Nov;76(5):2841–52
Responses in area V4 depend on the spatial relationship between stimulus and attention. Connor CE, et al. **J Neurophysiol** 1996 Mar;75(3):1306–8
Functional MRI of pain– and attention–related activations in the human cingulate cortex. Davis KD, et al. **J Neurophysiol** 1997 Jun;77(6):3370–80
Neural tuning to sound duration in the inferior colliculus of the big brown bat, Eptesicus fuscus. Ehrlich D, et al. **J Neurophysiol** 1997 May;77(5):2360–72
Eye–head coordination during head–unrestrained gaze shifts in rhesus monkeys. Freedman EG, et al. **J Neurophysiol** 1997 May;77(5):2328–48
Saccades to somatosensory targets. I. behavioral characteristics. Groh JM, et al. **J Neurophysiol** 1996 Jan; 75(1):412–27
Auditory cortical onset responses revisited. I. First–spike timing. Heil P. **J Neurophysiol** 1997 May;77(5):2616–41
Auditory cortical onset responses revisited. II. Response strength. Heil P. **J Neurophysiol** 1997 May;77(5):2642–60
Frequency extent of two–tone facilitation in onset units in the ventral cochlear nucleus. Jiang D, et al. **J Neurophysiol** 1996 Jan;75(1):380–95
Responses of neurons in the inferior colliculus to binaural masking level difference stimuli measured by rate–versus–level functions. Jiang D, et al. **J Neurophysiol** 1997 Jun;77(6):3085–106
Anatomy of motor learning. I. Frontal cortex and attention to action. Jueptner M, et al. **J Neurophysiol** 1997 Mar; 77(3):1313–24
Neural mechanisms of spatial selective attention in areas V1, V2, and V4 of macaque visual cortex. Luck SJ, et al. **J Neurophysiol** 1997 Jan;77(1):24–42
Primate striate and prestriate cortical neurons during discrimination. I. simultaneous temporal encoding of information about color and pattern. McClurkin JW, et al. **J Neurophysiol** 1996 Jan;75(1):481–95
Responses of primate cortical neurons to unitary and binary taste stimuli. Miyaoka Y, et al. **J Neurophysiol** 1996 Jan; 75(1):396–411
Processing of interaural intensity differences in the LSO: role of interaural threshold differences. Park TJ, et al. **J Neurophysiol** 1997 Jun;77(6):2863–78
Regularity of firing of neurons in the inferior colliculus. Rees A, et al. **J Neurophysiol** 1997 Jun;77(6):2945–65
Invariant visual responses from attentional gain fields. Salinas E, et al. **J Neurophysiol** 1997 Jun;77(6):3267–72
Spatial and temporal integration of signals in foveal line orientation. Westheimer G, et al. **J Neurophysiol** 1997 May; 77(5):2677–84
Preattentive and attentive eye movements during visual scanning of a cocaine cue: correlation with intensity of cocaine cravings. Rosse RB, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter;9(1):91–3
Spatial attention effects in macaque area V4. Connor CE, et al. **J Neurosci** 1997 May 1;17(9):3201–14
Attention to one or two features in left or right visual field: a positron emission tomography study. Vandenberghe R, et al. **J Neurosci** 1997 May 15;17(10):3739–50
Nurse coaching and cartoon distraction: an effective and practical intervention to reduce child, parent, and nurse distress during immunizations. Cohen LL, et al. **J Pediatr Psychol** 1997 Jun;22(3):355–70
Non–averaged human brain potentials in somatic attention: the short–latency cognition–related P40 component. Tomberg C, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):559–74
Catecholamine regulation of the prefrontal cortex. Arnsten AF. **J Psychopharmacol (Oxf)** 1997;11(2):151–62 (170 ref.)
Effects of ibotenic acid–induced loss of neurons in the medial prefrontal cortex of rats on behavioral vigilance: evidence for executive dysfunction. Miner LA, et al. **J Psychopharmacol (Oxf)** 1997;11(2):169–78
Prospective memory and divided attention. Otani H, et al. **Memory** 1997 May;5(3):343–60
The system for regulating general attention in the human brain [news] Roland PE. **Mol Psychiatry** 1996 Sep; 1(4):303–6
A vision over time and space [news; comment] Humphreys GW. **Nature** 1997 Jan 9;385(6612):120–1. Comment on: Nature 1997 Jan 9;385(6612):154–6.
Shared neural control of attentional shifts and eye movements. Kustov AA, et al. **Nature** 1996 Nov 7; 384(6604):74–7
Word meanings can be accessed but not reported during the attentional blink. Luck SJ, et al. **Nature** 1996 Oct 17; 383(6601):616–8
Neurobiology. Look but don't touch, or vice versa [news; comment] Shadlen M. **Nature** 1997 Mar 13;386(6621):122–3 . Comment on: Nature 1997 Mar 13;386(6621):167–70.
Effects of stimulus asymmetry on line bisection. Chieffi S. **Neurology** 1996 Oct;47(4):1004–8
Voluntary attention modulates fMRI activity in human MT–MST. O'Craven KM, et al. **Neuron** 1997 Apr; 18(4):591–8
Orienting of visual attention in Alzheimer's disease: its implication in favor of the interhemispheric balance. Caffarra P, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr; 10(2):90–5
Are there sex differences in hemispatial visual neglect after unilateral stroke? McGlone J, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr; 10(2):125–34 (57 ref.)
Impairment of inhibition of unattended stimuli in schizophrenic patients: event–related potential correlates during selective attention. Iwanami A, et al. **Neuropsychobiology** 1996;34(2):57–62
Are there dissociable roles of the mesostriatal and mesolimbocortical dopamine systems on temporal information processing in humans? Rammsayer TH. **Neuropsychobiology** 1997;35(1):36–45
Auditory vertex potential in children: a cognitive hypothesis. Van Sweden B, et al. **Neuropsychobiology** 1997;35(1):51–6
Early visual processing in neglect patients: a study with steady–state VEPs. Angelelli P, et al. **Neuropsychologia** 1996 Dec;34(12):1151–7
Impaired estimation of word occurrence frequency in frontal lobe patients. Angeles Jurado M, et al. **Neuropsychologia** 1997 May;35(5):635–41
Atypical cerebral dominance: predictions and tests of the right shift theory. Annett M, et al. **Neuropsychologia** 1996 Dec;34(12):1215–27
Biased attention and the fused dichotic words test [published erratum appears in Neuropsychologia 1996 Nov;34(11):1141] Asbjornsen AE, et al. **Neuropsychologia** 1996 May;34(5):407–11
Rightward attentional bias and left hemisphere dominance in a cue–target light detection task in a callosotomy patient. Berlucchi G, et al. **Neuropsychologia** 1997 Jul;35(7):941–52
Asymmetric interference between concurrent tasks: an evaluation of competing explanatory models. Caroselli JS, et al. **Neuropsychologia** 1997 Apr;35(4):457–69
Nonverbal visual attention, but not recognition memory of

learning, processes are impaired in motor neurone disease. Chari G, et al. **Neuropsychologia** 1996 May;34(5):377–85

A fronto–parietal network for rapid visual information processing: a PET study of sustained attention and working memory. Coull JT, et al. **Neuropsychologia** 1996 Nov; 34(11):1085–95

Attention and oculomotor control: a high–density ERP study of the gap effect. Csibra G, et al. **Neuropsychologia** 1997 Jun;35(6):855–65

Pathogenesis of subcortical visuo–spatial neglect. A HMPAO SPECT study. Demeurisse G, et al. **Neuropsychologia** 1997 May;35(5):731–5

Learning and forgetting processes in Parkinson's disease: a model–based approach to disentangling storage, retention and retrieval contributions. Faglioni P, et al. **Neuropsychologia** 1997 Jun;35(6):767–79

Relating the mechanisms of orienting and alerting. Fernandez–Duque D, et al. **Neuropsychologia** 1997 Apr; 35(4):477–86

Focal and global attention modulate the expression of visuo–spatial neglect: a case study. Halligan PW, et al. **Neuropsychologia** 1994 Jan;32(1):13–21

Distractor–dependent frontal neglect. Husain M, et al. **Neuropsychologia** 1997 Jun;35(6):829–41

The effect of presentation rate on the comprehension and recall of speech after anterior temporal–lobe resection. Johnsrude I, et al. **Neuropsychologia** 1994 Jan;32(1):77–84

Preserved semantic access in neglect dyslexia. Làdavas E, et al. **Neuropsychologia** 1997 Mar;35(3):257–70

Bilateral field interactions, hemispheric specialization and evoked potential interhemispheric transmission time. Larson EB, et al. **Neuropsychologia** 1997 May;35(5):573–81

Simultaneous attention in the two visual hemifields and interhemispheric integration: a developmental study on 20– to 26–month–old infants. Liégeois F, et al. **Neuropsychologia** 1997 Mar;35(3):381–5

Cognitive and perceptual influences on visual line bisection: psychophysical and chronometric analyses of pseudoneglect. McCourt ME, et al. **Neuropsychologia** 1997 Mar;35(3):369–80

Attentional competition between modalities: extinction between touch and vision after right hemisphere damage. Mattingley JB, et al. **Neuropsychologia** 1997 Jun; 35(6):867–80

Contributions of the left and right cerebral hemispheres to line bisection. Mennemeier M, et al. **Neuropsychologia** 1997 May;35(5):703–15

Covert visual spatial attention in boys with attention deficit hyperactivity disorder: lateral effects, methylphenidate response and results for parents. Nigg JT, et al. **Neuropsychologia** 1997 Feb;35(2):165–76

Response channel activation and the lateral prefrontal cortex. Rafal R, et al. **Neuropsychologia** 1996 Dec;34(12):1197–202

Frontal lesions increase post–target interference in rapid stimulus streams. Richer F, et al. **Neuropsychologia** 1996 Jun;34(6):509–14

'Oops!': performance correlates of everyday attentional failures in traumatic brain injured and normal subjects. Robertson IH, et al. **Neuropsychologia** 1997 Jun; 35(6):747–58

One hand is better than two: motor extinction of left hand advantage in unilateral neglect [comment] Robertson IH, et al. **Neuropsychologia** 1994 Jan;32(1):1–11. Comment on: Neuropsychologia 1992 Jun;30(6):553–63.

Further evidence that the callosum is involved in sustaining attention. Rueckert L, et al. **Neuropsychologia** 1996 Sep; 34(9):927–35

Division of inputs between hemispheres eliminates illusory conjunctions. Sohn YS, et al. **Neuropsychologia** 1996 Nov; 34(11):1057–68

Auditory inattention in right–hemisphere–damaged patients with and without visual neglect. Soroker N, et al. **Neuropsychologia** 1997 Mar;35(3):249–56

Object–based visual attention in luminance increment detection? Stuart GW, et al. **Neuropsychologia** 1997 Jun; 35(6):843–53

Between–limb asynchronies during bimanual coordination: effects of manual dominance and attentional cueing. Swinnen SP, et al. **Neuropsychologia** 1996 Dec; 34(12):1203–13

Dual task performance after focal cerebral lesions and closed head injuries. Vilkki J, et al. **Neuropsychologia** 1996 Nov; 34(11):1051–6

Fragments of memory. Weiskrantz L. **Neuropsychologia** 1997 Jul;35(7):1051–7

Phasic arousal in response to auditory warnings after traumatic brain injury. Whyte J, et al. **Neuropsychologia** 1997 Mar;35(3):313–24

Inhibition of return and visuospatial attention in healthy older adults and individuals with dementia of the Alzheimer type. Faust ME, et al. **Neuropsychology** 1997 Jan;11(1):13–29

Assessment of differential attention mechanisms in seizure disorders and schizophrenia. Goldstein PC, et al. **Neuropsychology** 1997 Apr;11(2):309–17

Controlling the focus of spatial attention during visual search: effects of advanced aging and Alzheimer disease. Greenwood PM, et al. **Neuropsychology** 1997 Jan; 11(1):3–12

Motor recovery after stroke depends on intact sustained attention: a 2–year follow–up study. Robertson IH, et al. **Neuropsychology** 1997 Apr;11(2):290–5

Clustering and switching as two components of verbal fluency: evidence from younger and older healthy adults. Troyer AK, et al. **Neuropsychology** 1997 Jan;11(1):138–46

Spatial attention does not require preattentive grouping. Vecera SP, et al. **Neuropsychology** 1997 Jan;11(1):30–43

Stroop color–word interference and electroencephalogram activation: evidence for age–related decline of the anterior attention system. West R, et al. **Neuropsychology** 1997 Jul; 11(3):421–7

Attention and probability effects in the human occipital cortex: an optical imaging study. Gratton G. **Neuroreport** 1997 May 6;8(7):1749–53

Successive activation of both cerebral hemispheres during cued word generation. Knecht S, et al. **Neuroreport** 1996 Feb 29;7(3):820–4

Event–related gamma band activity during passive and active oddball tasks. Marshall L, et al. **Neuroreport** 1996 Jun 17; 7(9):1517–20

Head and trunk orientation modulate visual neglect. Schindler I, et al. **Neuroreport** 1997 Aug 18;8(12):2681–5

Modulation of auditory and visual cortex by selective attention is modality–dependent. Woodruff PW, et al. **Neuroreport** 1996 Aug 12;7(12):1909–13

Dynamic character and age dependence of functional brain organization in attention. Dubrovinskaya NV, et al. **Neurosci Behav Physiol** 1997 Jul–Aug;27(4):427–34

Lateralization of brain mechanisms underlying automatic and controlled forms of spatial orienting of attention. Gainotti G. **Neurosci Biobehav Rev** 1996 Winter;20(4):617–22 (48 ref.)

Transcranial Doppler assessment of cerebral blood flow velocity during visual spatial selective attention in humans. Schnittger C, et al. **Neurosci Lett** 1996 Aug 16;214(1):41–4

Fast preattentive processing of location: a functional basis for selective listening in humans. Schröger E, et al. **Neurosci Lett** 1997 Aug 22;232(1):5–8

Pre–attentive processing of spectrally complex sounds with asynchronous onsets: an event–related potential study with human subjects. Tervaniemi M, et al. **Neurosci Lett** 1997 May 23;227(3):197–200

Attention–induced neuronal activity in the monkey somatosensory cortex revealed by pupillometrics. Iriki A, et al. **Neurosci Res** 1996 Jun;25(2):173–81

Neuronal activity in the frontal eye field of the monkey is modulated while attention is focused on to a stimulus in the peripheral visual field, irrespective of eye movement. Kodaka Y, et al. **Neurosci Res** 1997 Aug;28(4):291–8

Imaging studies of memory and attention. Ojemann JG, et al. **Neurosurg Clin N Am** 1997 Jul;8(3):307–19 (74 ref.)

Sequential daily relations of sleep, pain intensity, and attention to pain among women with fibromyalgia. Affleck G, et al. **Pain** 1996 Dec;68(2–3):363–8

Do patients with chronic pain selectively attend to pain–related information?: preliminary evidence for the mediating role of fear. Asmundson GJ, et al. **Pain** 1997 Aug;72(1–2):27–32

Attention and somatic awareness in chronic pain. Eccleston C, et al. **Pain** 1997 Aug;72(1–2):209–15

Anxiety and pain: attentional and endorphinergic influences. Janssen SA, et al. **Pain** 1996 Aug;66(2–3):145–50

The effects of distraction on exercise and cold pressor tolerance for chronic low back pain sufferers. Johnson MH, et al. **Pain** 1997 Jan;69(1–2):43–8

Test–retest reliability of a battery of sensory motor and physiological measures of aging. Anstey KJ, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):831–4

Demands during maze. learning in limbic epileptic rats: selective damage in the thalamus? Cook LL, et al. **Percept Mot Skills** 1996 Aug;83(1):323–9

Effects on contingent negative variation of set created by anticipating variable foreperiods. Hiraku S, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1163–9

Baseline respiratory sinus arrhythmia and heart–rate responses during auditory stimulation of children with attention–deficit hyperactivity disorder. Shibagaki M, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):967–75

Event–related brain potentials and attention during simultaneous performance of two tasks. Sullivan C. **Percept Mot Skills** 1996 Oct;83(2):651–7

Elevation of core temperature and mental functioning. Travlos AK, et al. **Percept Mot Skills** 1996 Aug; 83(1):219–25

Spatial frequency–dependent asymmetry of visual evoked potential amplitudes. van Orden KF, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):1011–8

What do qualia do? [editorial] Gregory RL. **Perception** 1996; 25(4):377–9

The effect of attention on phenomenal length. Prinzmetal W, et al. **Perception** 1997;26(2):193–205

Modulation of vigilance and behavioral activation by alpha–1 adrenoceptors in the rat. Puumala T, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):705–12

Attention to action. Passingham RE. **Philos Trans R Soc Lond B Biol Sci** 1996 Oct 29; 351(1346):1473–9 (28 ref.)

Possible confounding effects of strobe "clicks" on flash evoked potentials in rats. Herr DW, et al. **Physiol Behav** 1996 Feb;59(2):325–40

Immediate and long–term effects of novel odors on risk assessment in mice. Kemble ED, et al. **Physiol Behav** 1997 Apr;61(4):543–9

Adaptive behavioral reactions of reaching in rats following discrete somatosensorimotor cortex lesions. Saling M, et al. **Physiol Behav** 1996 Feb;59(2):255–63

High–frequency brain activity: its possible role in attention, perception and language processing. Pulvermüller F, et al. **Prog Neurobiol** 1997 Aug;52(5):427–45 (130 ref.)

Reliability of the task–related component (P3b) of P3 event–related potentials. Maeda H, et al. **Psychiatry Clin Neurosci** 1995 Dec;49(5–6):281–6

A method to determine activation thresholds in fMRI paradigms. Arndt S, et al. **Psychiatry Res** 1997 Aug 8; 75(1):15–22

Perceptual and attentional asymmetries in schizophrenia: further evidence for a left hemisphere deficit. Carter CS, et al. **Psychiatry Res** 1996 May 17;62(2):111–9

Cerebral blood flow related to induction of a depressed mood within and out of the realm of attention in normal volunteers. De Raedt R, et al. **Psychiatry Res** 1997 Jul 4;74(3):159–71

Effects of P50 temporal variability on sensory gating in schizophrenia. Jin Y, et al. **Psychiatry Res** 1997 May 5; 70(2):71–81

Auditory event–related potentials to a two–tone discrimination paradigm in attention deficit hyperactivity disorder. Johnstone SJ, et al. **Psychiatry Res** 1996 Oct 16; 64(3):179–92

Activation of left posterior cingulate gyrus by the auditory presentation of threat–related words: an fMRI study. Maddock RJ, et al. **Psychiatry Res** 1997 Aug 8;75(1):1–14

Impaired attention in depressive states: a non–specific deficit? Mialet JP, et al. **Psychol Med** 1996 Sep;26(5):1009–20 (99 ref.)

Thyroid hormones correlate with symptoms of hyperactivity but not inattention in attention deficit hyperactivity disorder. Hauser P, et al. **Psychoneuroendocrinology** 1997 Feb;22(2):107–14

Attention modulates auditory pattern memory as indexed by event–related brain potentials. Alain C, et al. **Psychophysiology** 1997 Sep;34(5):534–46

Probing picture perception: activation and emotion. Cuthbert BN, et al. **Psychophysiology** 1996 Mar;33(2):103–11

Attentional selection and attentional gradients: an alternative method for studying transient visual–spatial attention. Eimer M. **Psychophysiology** 1997 May;34(3):365–76

Allocation of attentional resources during habituation to food cues. Epstein LH, et al. **Psychophysiology** 1997 Jan; 34(1):59–64

Cardiac rhythmicities and attention in young children. Hyde C, et al. **Psychophysiology** 1997 Sep;34(5):547–52

Human multiunit activity related to attention and preparatory set. Kropotov JD, et al. **Psychophysiology** 1997 Sep; 34(5):495–500

The effect of emotional and attentional processes on blink startle modulation and on electrodermal responses. Lipp OV, et al. **Psychophysiology** 1997 May;34(3):340–7

On the detection of auditory deviations: a pre–attentive activation model. Schröger E. **Psychophysiology** 1997 May; 34(3):245–57

The effect of unconditional stimulus modality and intensity on blink startle and electrodermal responses. Siddle DA, et al. **Psychophysiology** 1997 Jul;34(4):406–13

Does the heart know what the ears hear? A heart rate analysis of auditory selective attention. van der Molen MW, et al. **Psychophysiology** 1996 Sep;33(5):547–54

The varying time courses of attentional and affective modulation of the startle eyeblink reflex. Vanman EJ, et al. **Psychophysiology** 1996 Nov;33(6):691–7

Attentional modulation of the cardiac defense response in humans. Vila J, et al. **Psychophysiology** 1997 Jul;34(4):482–7

An ERP study of visual spatial attention and letter target detection for isoluminant and nonisoluminant stimuli. Wijers AA, et al. **Psychophysiology** 1997 Sep;34(5):553–65

Perceptual factors affecting age–related differences in focused attention: performance and psychophysiological analyses. Zeef EJ, et al. **Psychophysiology** 1996 Sep; 33(5):555–65

Attentional vulnerability indicators in schizophrenia and bipolar disorder. Addington J, et al. **Schizophr Res** 1997 Feb 28;23(3):197–204

Behavioral and P3 amplitude enhancement in schizophrenia following feedback training. Fukuda M, et al. **Schizophr Res** 1997 Jun 20;25(3):231–42

Attention deficits assessed by Continuous Performance Test and Span of Apprehension Test in Japanese schizophrenic patients. Ito M, et al. **Schizophr Res** 1997 Feb 28; 23(3):205–11

Cognitive and symptom correlates of participation in social skills training groups. McKee M, et al. **Schizophr Res** 1997 Feb 28;23(3):223–9

Stroop interference and facilitation in the cerebral hemispheres in schizophrenia. Phillips ML, et al. **Schizophr Res** 1996 May;20(1–2):57–68

Wisconsin card sorting activated regional cerebral blood flow in first break and chronic schizophrenic patients and normal controls. Steinberg JL, et al. **Schizophr Res** 1996 May; 19(2–3):177–87

Visual system provides clues to how the brain perceives [news] Barinaga M. **Science** 1997 Mar 14;275(5306):1583–5

Getting the brain's attention [news] Wickelgren I. **Science** 1997 Oct 3;278(5335):35–7

Consciousness and attention. Coslett HB. **Semin Neurol** 1997 Jun;17(2):137–44 (79 ref.)

A finger–tapping task and a reaction time task as behavioral measures of the transition from wakefulness to sleep: which

task interferes less with the sleep onset process. Casagrande M, et al. **Sleep** 1997 Apr;20(4):301–12
Objective assessment of sleep and alertness in medical house staff and the impact of protected time for sleep. Richardson GS, et al. **Sleep** 1996 Nov;19(9):718–26
Interference in identifying tactile patterns: response competition and temporal integration. Craig JC. **Somatosens Mot Res** 1996;13(3–4):199–213
Heat pain increases the perceived magnitude of an innocuous electrical stimulus: evidence for a peripheral mechanism. Dowman R, et al. **Somatosens Mot Res** 1996;13(3–4):255–62
The effects of aging on information-processing channels in the sense of touch: III. Differential sensitivity to changes in stimulus intensity. Gescheider GA, et al. **Somatosens Mot Res** 1996;13(1):73–80
Response of monkey glabrous skin mechanoreceptors to random noise sequences: II. Dynamic stimulus state analysis. Looft FJ. **Somatosens Mot Res** 1996;13(1):11–28
The influence of visual neglect on stroke rehabilitation. Kalra L, et al. **Stroke** 1997 Jul;28(7):1386–91
Effects of nasal CPAP on simulated driving performance in patients with obstructive sleep apnoea. George CF, et al. **Thorax** 1997 Jul;52(7):648–53
A centrifugally controlled circuit in the avian retina and its possible role in visual attention switching. Clarke PG, et al. **Vis Neurosci** 1996 Nov–Dec;13(6):1043–8
Visual motion sensation yielded by non-visually driven attention. Shimojo S, et al. **Vision Res** 1997 Jun; 37(12):1575–80
[Texture discrimination and visual search: development, learning and plasticity] Sireteanu R, et al. **Klin Monatsbl Augenheilkd** 1996 Jan;208(1):3–10 (Eng. Abstr.) **(Ger)**
[Measuring vernier acuity and motion perception with the parameter sweep VEP] Wesemann W, et al. **Klin Monatsbl Augenheilkd** 1996 Jan;208(1):11–7 (Eng. Abstr.) **(Ger)**
[Contralateral modification of transitory evoked otoacoustic emissions] Ganz M, et al. **Laryngorhinootologie** 1997 May; 76(5):278–83 (Eng. Abstr.) **(Ger)**
[Event related brain potentials as indicators of neurochemical dysfunctions in psychiatric patients] Hegerl U, et al. **Nervenarzt** 1996 May;67(5):360–8 (67 ref.) (Eng. Abstr.) **(Ger)**
[Examination of psychological functions by functional imaging with positron emission tomography and magnetic resonance imaging] Schneider F, et al. **Nervenarzt** 1996 Sep;67(9):721–9 (60 ref.) (Eng. Abstr.) **(Ger)**
[Event-related potentials in semantic speech processing by schizophrenic patients] Spitzer M, et al. **Nervenarzt** 1997 Mar;68(3):212–25 (Eng. Abstr.) **(Ger)**
[Pupillography for objective vigilance assessment. Methodological problems and possible solutions] Wilhelm B, et al. **Ophthalmologe** 1996 Aug;93(4):446–50 (Eng. Abstr.) **(Ger)**
[Event related potentials and neuropsychological studies in sleep apnea patients] Kotterba S, et al. **Pneumologie** 1997 Aug;51 Suppl 3:712–5 (Eng. Abstr.) **(Ger)**
[nCPAP therapy and maxillary and mandibular osteotomy compared: attention during the day in obstructive sleep apnea] Conradt R, et al. **Wien Med Wochenschr** 1996; 146(13–14):372–4 (Eng. Abstr.) **(Ger)**
[Assessment of attention parameters in sleep apnea patients] Gresele C, et al. **Wien Med Wochenschr** 1996; 146(13–14):344–5 (Eng. Abstr.) **(Ger)**
[Effect of adenotomy on mental performance of children with adenoid vegetations] Paditz E, et al. **Wien Med Wochenschr** 1996;146(13–14):327–8 (Eng. Abstr.) **(Ger)**
[Pupillography as an objective attention test] Wilhelm B, et al. **Wien Med Wochenschr** 1996;146(13–14):387–9 (Eng. Abstr.) **(Ger)**
[Reliability of parameters of cognitive evoked P3 potentials] Minow F, et al. **Z Kinder Jugenpsychiatr** 1996 Dec; 24(4):265–71 (Eng. Abstr.) **(Ger)**
[Electrophysiologic correlates of selective attention in children and adolescents at increased risk of schizophrenia] Schreiber H, et al. **Z Kinder Jugenpsychiatr** 1996 Dec; 24(4):282–92 (Eng. Abstr.) **(Ger)**
[Modulation of evoked potentials following electrical tooth and finger stimulation at selective attention task] Izumi K. **Kokubyo Gakkai Zasshi** 1997 Jun;64(2):296–315 (Eng. Abstr.) **(Jpn)**
[A study on the quantitative evaluation method of human alertness and its application] Hagiwara H, et al. **Seishin Shinkeigaku Zasshi** 1997;99(1):23–34 (Eng. Abstr.) **(Jpn)**
[Object-specific priming in apparent motion display] Yoshida H, et al. **Shinrigaku Kenkyu** 1995 Dec;66(5):354–60 (Eng. Abstr.) **(Jpn)**
[The influence of computer work on reaction time and accuracy in VDT operators] Borodulin-Nadzieja L, et al. **Med Pr** 1997;48(2):139–44 (Eng. Abstr.) **(Pol)**
[Mechanisms of attention control in infants. EEG analysis] Stroganova TA, et al. **Fiziol Cheloveka** 1997 Jul–Aug; 23(4):14–20 **(Rus)**
[The dynamic nature and age-related dependence of functional brain organization in attention] Dubrovinskaia NV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar–Apr;47(2):196–208 (Eng. Abstr.) **(Rus)**
[The functional organization of the cerebral hemispheres during directed attention in children 7 to 8 years old] Machniskaia RI, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):437–46 (Eng. Abstr.) **(Rus)**
[The psychophysiological assessment of the functional status of a pilot under different conditions of piloting] Horbunov VV. **Fiziol Zh** 1996;42(1–2):73–8 (Eng. Abstr.) **(Ukr)**

ATTENTION DEFICIT DISORDER see ATTENTION DEFICIT DISORDER WITH HYPERACTIVITY

ATTENTION DEFICIT DISORDER WITH HYPERACTIVITY

Attention-deficit/hyperactivity disorder. Shaywitz BA, et al. **Adv Pediatr** 1997;44:331–67 (196 ref.)
ADHD: the role of the family physician [editorial; comment] Higgins RW. **Am Fam Physician** 1997 Jul;56(1):42, 44. Comment on: Am Fam Physician 1997 Jul;56(1):155–60, 168–70.
ADHD: how school psychologists can help [editorial; comment] Lafleur LH, et al. **Am Fam Physician** 1997 Feb 15;55(3):773–4. Comment on: Am Fam Physician 1997 Feb 15;55(3):887–901.
An investigation of adult outcome of hyperactive children in Shanghai. Yan W. **Chin Med J (Engl)** 1996 Nov; 109(11):877–80
Recent advances regarding attention deficit-hyperactivity disorder in adolescence. Phillips S, et al. **Curr Opin Pediatr** 1996 Aug;8(4):310–8 (52 ref.)
Topographical analyses of attention disorders of childhood. DeFrance JF, et al. **Int J Neurosci** 1996 Oct;87(1–2):41–61
Visual event related potentials and reaction time in normal adults, normal children, and children with attention deficit hyperactivity disorder: differences in short-term memory processing. Frank Y, et al. **Int J Neurosci** 1996 Nov; 88(1–2):109–24
Comorbidity in ADHD: implications for research, practice, and DSM-V. Jensen PS, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1065–79 (69 ref.)
BPD and ADHD [letter] Lombardo GT. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):719–20
Some reasons for concern about attention deficit hyperactivity disorder [letter; comment] Harris MJ. **J Paediatr Child Health** 1997 Feb;33(1):81. Comment on: J Paediatr Child Health 1996 Jun;32(3):201–3.
Some reasons for concern about attention deficit hyperactivity disorder [see comments] Jureidini J. **J Paediatr Child Health** 1996 Jun;32(3):201–3 (18 ref.). Comment in: J Paediatr Child Health 1997 Feb;33(1):81.
Attention deficit hyperactivity disorder: perceptions, practice and politics. Mellor DJ, et al. **J Paediatr Child Health** 1996 Jun;32(3):218–22 (43 ref.)
Pay attention to ADHD [see comments] Oberklaid F, et al. **J Paediatr Child Health** 1996 Jun;32(3):207–8. Comment in: J Paediatr Child Health 1997 Apr;33(2):176.
Attention deficit hyperactivity disorder: a disease or a symptom complex? [editorial; comment] Weinberg WA, et al. **J Pediatr** 1997 Jan;130(1):6–9. Comment on: J Pediatr 1997 Jan;130(1):40–4.
Assessment and diagnosis of attention deficit/hyperactivity disorder in pediatric general practice. Eppright TD, et al. **Mo Med** 1996 Sep;93(9):604–11
Attention deficit continues to attract research attention [news] Harby K. **Mol Med Today** 1996 Dec;2(12):493
Diagnosing and treating ADHD [letter] Farrell EG. **N C Med J** 1996 Mar–Apr;57(2):67
Attention-deficit/hyperactivity disorder: a diagnosis for the '90s. Buncher PC. **Nurse Pract** 1996 Jun;21(6):43–6, 52, 54 passim; quiz 63–5 (22 ref.)
Motor vehicle driving competencies and risks in teens and young adults with attention deficit hyperactivity disorder. Barkley RA, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1089–95
Educating every teacher, every year: the public schools and parents of children with ADHD. Reid R, et al. **Semin Speech Lang** 1996 Feb;17(1):73–90
Adult attention-deficit disorder. Krener P. **West J Med** 1996 Mar;164(3):259–60
Attention disorders: the advance is a return to basics. Wender EH. **West J Med** 1997 May;166(5):343–4
[Attention deficit in hyperactive children] Paclt I, et al. **Ceska Slov Psychiatr** 1996 May;92 Suppl 1:23–40 (Eng. Abstr.) **(Cze)**
[Hyperkinetic disorders--also in adults (editorial)] Zeiner P. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2932 **(Nor)**

BLOOD

Zinc deficiency in attention-deficit hyperactivity disorder. Toren P, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1308–10
Lack of effect of methylphenidate on serum growth hormone (GH), GH-binding protein, and insulin-like growth factor I. Toren P, et al. **Clin Neuropharmacol** 1997 Jun;20(3):264–9
Plasma cortisol and aggression in boys with ADHD. Schulz KP, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):605–9
Thyroid function in a population of children with attention deficit hyperactivity disorder. Valentine J, et al. **J Paediatr Child Health** 1997 Apr;33(2):117–20
Results of blood lead screening in children referred for behavioral disorders. Eppright TD, et al. **Mo Med** 1997 Jun;94(6):295–7

CEREBROSPINAL FLUID

Cerebrospinal fluid cytokines in pediatric neuropsychiatric disease. Mittleman BB, et al. **J Immunol** 1997 Sep 15; 159(6):2994–9
Cerebrospinal fluid homovanillic acid predicts behavioral response to stimulants in 45 boys with attention deficit/hyperactivity disorder. Castellanos FX, et al. **Neuropsychopharmacology** 1996 Feb;14(2):125–37

CHEMICALLY INDUCED

Attention deficit hyperactivity disorder, infantile autism, and elevated blood-lead: a possible relationship. Eppright TD, et al. **Mo Med** 1996 Mar;93(3):136–8

CLASSIFICATION

Childhood and adolescent depression: a review of the past 10 years. Part I. Birmaher B, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1427–39 (210 ref.)
Identifying thresholds for classifying childhood psychiatric disorder: issues and prospects [see comments] Boyle MH, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1440–8. Comment in: J Am Acad Child Adolesc Psychiatry 1997 May;36(5):575.
Girls with ADHD [letter] Goldstein S. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1162–3
[Adult attention deficit hyperactivity disorder: "there is such a creature"] Gur S, et al. **Harefuah** 1996 Jun 16; 130(12):851–4 (25 ref.) **(Heb)**

COMPLICATIONS

Treatment with buspirone in a patient with autism. McCormick LH. **Arch Fam Med** 1997 Jul–Aug;6(4):368–70
The relationship of attention deficit hyperactivity disorder and conduct disorder to juvenile delinquency: legal implications. Foley HA, et al. **Bull Am Acad Psychiatry Law** 1996;24(3):333–45 (44 ref.)
Is there a divided attention deficit in patients with early Parkinson's disease? Sharpe MH. **Cortex** 1996 Dec; 32(4):747–53
Contribution of ADHD symptoms to substance problems and delinquency in conduct-disordered adolescents. Thompson LL, et al. **J Abnorm Child Psychol** 1996 Jun;24(3):325–47
Conduct disorder with and without mania in a referred sample of ADHD children. Biederman J, et al. **J Affect Disord** 1997 Jul;44(2–3):177–88
Is ADHD a risk factor for psychoactive substance use disorders? Findings from a four-year prospective follow-up study. Biederman J, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jan;36(1):21–9
Controlled stimulant treatment of ADHD and comorbid Tourette's syndrome: effects of stimulant and dose. Castellanos FX, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):589–96
ADHD and thyroid dysfunction [letter] Leo RJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1572–3
Educational and occupational outcome of hyperactive boys grown up. Mannuzza S, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1222–7
Children with ADHD and tic disorder and their classmates: behavioral normalization with methylphenidate. Nolan EE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):597–604
A case study: follow-up assessment of facilitated communication. Simon EW, et al. **J Autism Dev Disord** 1996 Feb;26(1):9–18
Open-label treatment of comorbid depression and attentional disorders with co-administration of serotonin reuptake inhibitors and psychostimulants in children, adolescents, and adults: a case series. Findling RL. **J Child Adolesc Psychopharmacol** 1996 Fall;6(3):165–75
Impaired neuropsychological functioning in Tourette's syndrome subjects with co-occurring obsessive-compulsive and attention deficit symptoms. de Groot CM, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):267–72
Bedwetting and psychopathology in adolescents. Rey JM, et al. **J Paediatr Child Health** 1995 Dec;31(6):508–12
Sleep patterns among children with attention-deficit hyperactivity disorder: a reexamination of parent perceptions. Ball JD, et al. **J Pediatr Psychol** 1997 Jun; 22(3):389–98
Tics, Tourette's, and attention deficit hyperactivity disorders: connections and treatment. Mitchell A, et al. **MCN Am J Matern Child Nurs** 1996 Nov–Dec; 21(6):294–300 (44 ref.)
Behavioral and emotional aspects of Tourette syndrome. Coffey BJ, et al. **Neurol Clin** 1997 May;15(2):277–89 (84 ref.)
Attention deficit hyperactivity disorder in the presence of Tourette syndrome. Freeman RD. **Neurol Clin** 1997 May; 15(2):411–20 (98 ref.)
Brain morphometry in Tourette's syndrome: the influence of comorbid attention-deficit/hyperactivity disorder. Castellanos FX, et al. **Neurology** 1996 Dec;47(6):1581–3
Temporal lobe arachnoid cyst-attention deficit disorder syndrome: role of the electroencephalogram in diagnosis. Millichap JG. **Neurology** 1997 May;48(5):1435–9

Neuropsychological status of children with Tourette's syndrome with and without attention deficit hyperactivity disorder. Schuerholz LJ, et al. **Neurology** 1996 Apr; 46(4):958–65

The child with attention deficit hyperactivity disorder and learning disability. Cavanaugh S, et al. **S D J Med** 1997 Jun;50(6):193–7

Enuresis in children with attention-deficit hyperactivity disorder. Robson WL, et al. **South Med J** 1997 May; 90(5):503–5

[Attention deficit hyperactivity disorder, facilitating alcohol and drug abuse in an adult] Durst R, et al. **Harefuah** 1997 May 1;132(9):618–22, 680 (Eng. Abstr.) **(Heb)**

DIAGNOSIS

Attention deficit hyperactivity disorders [editorial] Gillberg C. **Acta Paediatr** 1997 Aug;86(8):791–2

Parent-reported symptoms of hyperactivity and attention deficits predict teacher-reported symptoms. Zeiner P. **Acta Paediatr** 1997 Feb;86(2):178–82

A comparison of children affected by prenatal alcohol exposure and attention deficit, hyperactivity disorder. Coles CD, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):150–61

Evaluating the hyperactive child in your office: is it ADHD? [see comments] Johnson TM. **Am Fam Physician** 1997 Jul; 56(1):155–60, 168–70 (13 ref.). Comment in: Am Fam Physician 1997 Jul;56(1):42, 44.

Evaluation and management of attention-deficit hyperactivity disorder [see comments] Taylor MA. **Am Fam Physician** 1997 Feb 15;55(3):887–94, 897, 901 passim (19 ref.). Comment in: Am Fam Physician 1997 Feb 15;55(3):773–4.

Factor analysis on the Sensory Profile from a national sample of children without disabilities. Dunn W, et al. **Am J Occup Ther** 1997 Jul-Aug;51(7):490–5; discussion 496–9

Advancing age, declining ADHD [letter; comment] Barkley RA. **Am J Psychiatry** 1997 Sep;154(9):1323–5. Comment on: Am J Psychiatry 1996 Sep;153(9):1143–6.

Twin concordance for attention deficit hyperactivity disorder: a comparison of teachers' and mothers' reports. Sherman DK, et al. **Am J Psychiatry** 1997 Apr;154(4):532–5

Driving histories of ADHD subjects. National Highway Traffic Safety Administration. **Ann Emerg Med** 1997 Apr; 29(4):546–7; discussion 547–8

Attentional deficits in stroke patients: a visual dual task experiment. Marshall SC, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):7–12

Blink rate in children with attention-deficit-hyperactivity disorder. Caplan R, et al. **Biol Psychiatry** 1996 Jun 15; 39(12):1032–8

Who is responsible for child mental health? Attention deficit and hyperactivity disorder needs to be recognised [letter; comment] Sloan D. **BMJ** 1997 Aug 2;315(7103):312. Comment on: BMJ 1997 Mar 15;314(7083):813–4.

Hyperkinetic or attention deficit disorder [see comments] Sandberg S. **Br J Psychiatry** 1996 Jul;169(1):10–7 (27 ref.) . Comment in: Br J Psychiatry 1996 Oct;169(4):523.

Attention deficit disorder [letter; comment] Weaver A. **Br J Psychiatry** 1996 Oct;169(4):523. Comment on: Br J Psychiatry 1996 Jul;169(1):10–7.

The practical aspects of diagnosing and managing children with attention deficit hyperactivity disorder. Wolraich ML, et al. **Clin Pediatr (Phila)** 1997 Sep;36(9):497–504

Adult attention-deficit hyperactivity disorder: assessment guidelines based on clinical presentation to a specialty clinic. Roy-Byrne P, et al. **Compr Psychiatry** 1997 May-Jun;38(3):133–40

Neuropsychological impairments and deficits in theory of mind and emotion recognition in a non-autistic boy. Buitelaar JK, et al. **Eur Child Adolesc Psychiatry** 1996 Apr; 5(1):44–51

Behavioral characteristics of DSM-IV ADHD subtypes in a school-based population. Gaub M, et al. **J Abnorm Child Psychol** 1997 Apr;25(2):103–11

Language abilities in children with attention deficit hyperactivity disorder, reading disabilities, and normal controls. Purvis KL, et al. **J Abnorm Child Psychol** 1997 Apr;25(2):133–44

Inhibition and attention deficit hyperactivity disorder. Quay HC. **J Abnorm Child Psychol** 1997 Feb;25(1):7–13 (34 ref.)

Hyperactivity and ADHD [letter; comment] Adesman AR. **J Am Acad Child Adolesc Psychiatry** 1996 Oct;35(10):1262 . Comment on: J Am Acad Child Adolesc Psychiatry 1996 Feb;35(2):246–9; discussion 249–51.

Validity of the age-of-onset criterion for ADHD: a report from the DSM-IV field trials. Applegate B, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep; 36(9):1211–21

Toward a broader definition of the age-of-onset criterion for attention-deficit hyperactivity disorder. Barkley RA, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep; 36(9):1204–10

Predictors of persistence and remission of ADHD into adolescence: results from a four-year prospective follow-up study. Biederman J, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):343–51

AACAP Official Action. Summary of the practice parameters for the assessment and treatment of children, adolescents, and adults with ADHD. Dulcan MK, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1311–7

Toward a new psychometric definition of social disability in children with attention-deficit hyperactivity disorder [see comments] Greene RW, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May;35(5):571–8 . Comment in: J Am Acad Child Adolesc Psychiatry 1996 Dec;35(12):1570–1.

The swivel chair test [letter] Gross MD. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):722–3

Thought disorder in BPD and ADHD [letter; comment] Jerome L. **J Am Acad Child Adolesc Psychiatry** 1997 Jun; 36(6):720–1. Comment on: J Am Acad Child Adolesc Psychiatry 1995 Jul;34(7):867–76. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Oct;35(10):1257–8.

Validity of DSM-IV ADHD predominantly inattentive and combined types: relationship to previous DSM diagnoses/subtype differences. Morgan AE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):325–33

Behavioral distinctions in children with reading disabilities and/or ADHD. Pisecco S, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1477–84

CD and ADHD in bipolar disorder [letter] Schneider SM, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1422–3

Objective measurement of hyperactivity and attentional problems in ADHD. Teicher MH, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):334–42

Psychosocial adjustment and educational outcome in adolescents with a childhood diagnosis of attention deficit disorder. Wilson JM, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May; 35(5):579–87

Comparison of diagnostic criteria for attention-deficit hyperactivity disorder in a county-wide sample. Wolraich ML, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar; 35(3):319–24

Professional perceptions of children with developmental difficulties: the influence of race and socioeconomic status. Cuccaro ML, et al. **J Autism Dev Disord** 1996 Aug; 26(4):461–9

Social perception in children with autism: an attentional deficit? Pierce K, et al. **J Autism Dev Disord** 1997 Jun; 27(3):265–82

Electrophysiologic measures of delayed maturation in attention-deficit hyperactivity disorder. Uclés P, et al. **J Child Neurol** 1996 Mar;11(2):155–6

Tracking procedures and attrition containment in a long-term follow-up of a community-based ADHD sample. Hartsough CS, et al. **J Child Psychol Psychiatry** 1996 Sep; 37(6):705–13

Is the Continuous Performance Task useful in research with ADHD children? Comments on a review [comment] Koelega HS. **J Child Psychol Psychiatry** 1995 Nov; 36(8):1477–85; discussion 1487–93. Comment on: J Child Psychol Psychiatry 1993 Oct;34(7):1217–39.

Thyroid hormone and attention in school-age children with congenital hypothyroidism. Rovet J, et al. **J Child Psychol Psychiatry** 1996 Jul;37(5):579–85

Performance of children with ADHD on the Rey-Osterrieth complex figure: a pilot neuropsychological study. Seidman LJ, et al. **J Child Psychol Psychiatry** 1995 Nov; 36(8):1459–73

Behavioural adjustment in school of very low birthweight children. Sykes DH, et al. **J Child Psychol Psychiatry** 1997 Mar;38(3):315–25

The identification of pervasive hyperactivity: is clinic observation necessary? Tripp G, et al. **J Child Psychol Psychiatry** 1997 Feb;38(2):219–34

Child and family factors influencing the clinical referral of children with hyperactivity: a research note. Woodward L, et al. **J Child Psychol Psychiatry** 1997 May;38(4):479–85

The Adolescent Behavior Checklist: development and initial psychometric properties of a self-report measure for adolescents with ADHD. Adams CD, et al. **J Clin Child Psychol** 1997 Mar;26(1):77–86

Attention-deficit hyperactivity disorder [letter; comment] Miller AR. **J Dev Behav Pediatr** 1996 Oct;17(5):371. Comment on: J Dev Behav Pediatr 1996 Aug;17(4):253–4.

Attention-deficit hyperactivity disorder: sometimes a disorder, often a clinical tautology [see comments] Palmeri S. **J Dev Behav Pediatr** 1996 Aug;17(4):253–4. Comment in: J Dev Behav Pediatr 1996 Oct;17(5):371.

Validation of a measure for adolescent self-report of attention deficit disorder symptoms. Robin AL, et al. **J Dev Behav Pediatr** 1996 Aug;17(4):211–5

Predictors of individual differences in attention among low birth weight children. Robson AL, et al. **J Dev Behav Pediatr** 1997 Feb;18(1):13–21

Adult attention deficit hyperactivity disorder: psychological test profiles in a clinical population. Downey KK, et al. **J Nerv Ment Dis** 1997 Jan;185(1):32–8

Symptom reports by adults with attention deficit hyperactivity disorder: are they influenced by attention deficit hyperactivity disorder in their children? Faraone SV, et al. **J Nerv Ment Dis** 1997 Sep;185(9):583–4

Paying attention to ADD [letter; comment] Budd LE. **J Paediatr Child Health** 1997 Apr;33(2):176. Comment on: J Paediatr Child Health 1996 Jun;32(3):207–8.

Attention deficit hyperactivity disorder: a disease or a symptom complex? [editorial] Weinberg WA, et al. **J Pediatr** 1997 Apr;130(4):665–9

Rethinking behavior disorders: whose attention has a deficit? Canuso R. **J Psychosoc Nurs Ment Health Serv** 1997 Apr; 35(4):24–9 (29 ref.)

Improving diagnosis and management of attention deficit hyperactivity disorder in Australia [editorial; comment] Carmichael A. **Med J Aust** 1996 Nov 4;165(9):464–5. Comment on: Med J Aust 1996 Nov 4;165(9):477–80.

Management of children prescribed psychostimulant medication for attention deficit hyperactivity disorder in the Hunter region of NSW [see comments] Hazell PL, et al. **Med J Aust** 1996 Nov 4;165(9):477–80. Comment in: Med J Aust 1996 Nov 4;165(9):464–5.

The characterization and outcome of stereotypical movements in nonautistic children. Tan A, et al. **Mov Disord** 1997 Jan;12(1):47–52

Tourette syndrome. Neuropsychological tests for obsessive-compulsive disorder and attention deficit hyperactivity disorder. Como PG. **Neurol Clin** 1997 May; 15(2):255–65 (85 ref.)

Volumetric MRI analysis comparing subjects having attention-deficit hyperactivity disorder with normal controls. Filipek PA, et al. **Neurology** 1997 Mar; 48(3):589–601

Temporal lobe arachnoid cyst-attention deficit disorder syndrome: role of the electroencephalogram in diagnosis. Millichap JG. **Neurology** 1997 May;48(5):1435–9

Clinical recognition and management of adult attention deficit hyperactivity disorder. Craig C. **Nurse Pract** 1996 Nov;21(11):101–6, 108 (39 ref.)

Accomplishments during young adulthood of children originally diagnosed with minimal cerebral dysfunction: a ten-year follow-up study. Rogers PT, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):891–8

Attention-deficit hyperactivity disorder. In pursuit of diagnostic accuracy. Schneider SC, et al. **Postgrad Med** 1997 Apr;101(4):231–2, 235–40 (19 ref.)

Attention deficit hyperactivity disorder in childhood among adults with major depression. Alpert JE, et al. **Psychiatry Res** 1996 Jun 1;62(3):213–9

Thyroid hormones correlate with symptoms of hyperactivity but not inattention in attention deficit hyperactivity disorder. Hauser P, et al. **Psychoneuroendocrinology** 1997 Feb;22(2):107–14

Four-year follow-up of children with low intelligence and ADHD. Aman MG, et al. **Res Dev Disabil** 1996 Nov-Dec; 17(6):417–32

Formulating a functional model of attention deficit hyperactivity disorder for the practicing speech-language pathologist. Damico JS, et al. **Semin Speech Lang** 1996 Feb; 17(1):5–19 (88 ref.)

Adults with attention deficit hyperactivity disorder: assessment and treatment considerations. Murphy K. **Semin Speech Lang** 1996 Aug;17(3):245–53; quiz 254 (35 ref.)

Attention deficit hyperactivity disorder in a young adult. Ungvari GS, et al. **Singapore Med J** 1996 Oct;37(5):544–6 (17 ref.)

[Attention deficit disorders with hyperactivity in adulthood; implications for diagnosis and treatment] Kooij JJ, et al. **Ned Tijdschr Geneeskd** 1996 Sep 14;140(37):1848–51 (25 ref.) **(Dut)**

[Evaluation of disruptive behavioral disorders: how situation specific and temporally accurate are behavior observations?] Lay B, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):184–91 (Eng. Abstr.) **(Ger)**

[Diagnostic and treatment standards for children with hyperkinetic disorders (editorial)] Lehmkuhl G, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):143–4 **(Ger)**

[Attention deficit/hyperactivity. Diagnostic criteria and classification] Sanne B, et al. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2949–52 (Eng. Abstr.) **(Nor)**

[Attention deficit/hyperactivity disorder in adults. Diagnostic problems] Sanne B, et al. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2953–5 (Eng. Abstr.) **(Nor)**

[The diagnosis and treatment of the attention deficit syndrome in children] Zavadenko NN, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(1):57–61 (33 ref.) **(Rus)**

[Conners' rating scales in the assessment of attention deficit disorder with hyperactivity (ADHD). A new validation and factor analysis in Spanish children] Farré-Riba A, et al. **Rev Neurol** 1997 Feb;25(138):200–4 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Does oligoantigenic diet influence hyperactive/conduct-disordered children--a controlled trial. Schmidt MH, et al. **Eur Child Adolesc Psychiatry** 1997 Jun;6(2):88–95

Diet therapy [letter] Breakey J, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug;36(8):1014–5

There are better ways to help these children [letter] Crook WG. **Tenn Med** 1996 Sep;89(9):341

[Effect of an oligo-antigen diet on the behavior of hyperkinetic children] Schulte-Körne G, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):176–83 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Optimizing ADHD therapy with sustained-release methylphenidate. Lawrence JD, et al. **Am Fam Physician** 1997 Apr;55(5):1705–9, 1711–2 (21 ref.)

Fenfluramine and methylphenidate in children with mental retardation and borderline IQ: clinical effects. Aman MG, et al. **Am J Ment Retard** 1997 Mar;101(5):521–34

Pemoline and hepatotoxicity [letter] McCurry L, et al. **Am J Psychiatry** 1997 May;154(5):713–4

Guanfacine use in children with attention deficit hyperactivity disorder. Cohn LM, et al. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):918–9

Treatment with buspirone in a patient with autism. McCormick LH. **Arch Fam Med** 1997 Jul–Aug;6(4):368–70

National Institute of Mental Health Collaborative Multimodal Treatment Study of Children with ADHD (the MTA). Design challenges and choices. Arnold LE, et al. **Arch Gen Psychiatry** 1997 Sep;54(9):865–70

Use of methylphenidate in a patient with glaucoma and attention–deficit hyperactivity disorder: a clinical dilemma [letter] Bartlik B, et al. **Arch Gen Psychiatry** 1997 Feb; 54(2):188–9

Long–term stimulant treatment of children with attention–deficit hyperactivity disorder symptoms. A randomized, double–blind, placebo–controlled trial. Gillberg C, et al. **Arch Gen Psychiatry** 1997 Sep; 54(9):857–64

Electrophysiological indices of information processing in methylphenidate responders. Winsberg BG, et al. **Biol Psychiatry** 1997 Sep 15;42(6):434–45

Warning against overuse of drugs for inattentive children [news] Mayor S. **BMJ** 1996 Sep 28;313(7060):770

Effects of methylphenidate and expectancy of ADHD children's performance, self–evaluations, persistence, and attributions on a cognitive task. Pelham WE, et al. **Exp Clin Psychopharmacol** 1997 Feb;5(1):3–13

Efficacy of methylphenidate in bulimia nervosa comorbid with attention–deficit hyperactivity disorder: a case report. Schweickert LA, et al. **Int J Eat Disord** 1997 Apr; 21(3):299–301

Effects of methylphenidate in children with attention deficit hyperactivity disorder: a comparison of event–related potentials between medication responders and non–responders. Sunohara GA, et al. **Int J Psychophysiol** 1997 Jul;27(1):9–14

Methylphenidate slows reactions of children with attention deficit disorder during and after an error. Krusch DA, et al. **J Abnorm Child Psychol** 1996 Oct;24(5):633–50

Responders and nonresponders [letter; comment] Arnold LE. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1569–70. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Apr;35(4):409–32.

Case study: adverse response to clonidine. Cantwell DP, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr; 36(4):539–44

Controlled stimulant treatment of ADHD and comorbid Tourette's syndrome: effects of stimulant and dose. Castellanos FX, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):589–96

Bupropion hydrochloride in attention deficit disorder with hyperactivity. Conners CK, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Oct; 35(10):1314–21

Methylphenidate euphoria [letter] Corrigall R, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov;35(11):1421

TD from risperidone? [letter; comment] Edleman RJ. **J Am Acad Child Adolesc Psychiatry** 1997 Jul;36(7):867. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Nov;35(11):1421–2.

Risperidone and tardive dyskinesia [letter] [see comments] Feeney DJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov;35(11):1421–2. Comment in: J Am Acad Child Adolesc Psychiatry 1997 Jul;36(7):867.

Medication treatment strategies in the MTA Study: relevance to clinicians and researchers. Greenhill LL, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Oct; 35(10):1304–13

Alternative medications for ADHD [letter; comment] Masters KJ. **J Am Acad Child Adolesc Psychiatry** 1997 Mar; 36(3):301–2. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Apr;35(4):409–32. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Aug;35(8):978–87.

Children with ADHD and tic disorder and their classmates: behavioral normalization with methylphenidate. Nolan EE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):597–604

Effects of methylphenidate on attention and nonverbal learning in children with attention–deficit hyperactivity disorder. O'Toole K, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):531–8

Clonidine for sleep disturbances associated with attention–deficit hyperactivity disorder: a systematic chart review of 62 cases. Prince JB, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May; 35(5):599–605

Titrating methylphenidate in children with attention–deficit/hyperactivity disorder: is body mass predictive of clinical response? Rapport MD, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):523–30

Behavioral, situational, and temporal effects of treatment of ADHD with methylphenidate. Schachar RJ, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):754–63

Carbamazepine use in children and adolescents with features of attention–deficit hyperactivity disorder: a meta–analysis. Silva RR, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):352–8

Pharmacotherapy of attention–deficit hyperactivity disorder across the life cycle [see comments] Spencer T, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr;35(4):409–32 (202 ref.). Comment in: J Am Acad Child Adolesc Psychiatry 1996 Dec;35(12):1569–70. Comment in: J Am Acad Child Adolesc Psychiatry 1997 Mar;36(3):301–2.

Growth deficits in ADHD children revisited: evidence for disorder–associated growth delays? Spencer TJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1460–9

A naturalistic assessment of protriptyline for attention–deficit hyperactivity disorder. Wilens TE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1485–90

Case study: adverse effects of smoking marijuana while receiving tricyclic antidepressants. Wilens TE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jan;36(1):45–8

Combined drug therapy debate (continued) [letter; comment] Zavodnick JM. **J Am Acad Child Adolesc Psychiatry** 1997 Jan;36(1):1–3. Comment on: J Am Acad Child Adolesc Psychiatry 1995 May;34(5):540. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Jan;35(1):1–2.

Pemoline in adult attention deficit hyperactivity disorder: predictors of nonresponse. Heiligenstein E, et al. **J Am Coll Health** 1997 Mar;45(5):225–9

Urinary dextroamphetamine in adult attention deficit/hyperactivity disorder [letter] Poklis A. **J Anal Toxicol** 1997 Mar–Apr;21(2):176–7

Brief report: response to methylphenidate in two children with Williams syndrome. Power TJ, et al. **J Autism Dev Disord** 1997 Feb;27(1):79–87

Methylphenidate slows right hemisphere processing in children with attention–deficit/hyperactivity disorder. Campbell L, et al. **J Child Adolesc Psychopharmacol** 1996 Winter;6(4):229–39

Open–label treatment of comorbid depression and attentional disorders with co–administration of serotonin reuptake inhibitors and psychostimulants in children, adolescents, and adults: a case series. Findling RL. **J Child Adolesc Psychopharmacol** 1996 Fall;6(3):165–75

Severe weight loss induced by Adderall in a child with ADHD [letter] Kalikow KT, et al. **J Child Adolesc Psychopharmacol** 1996 Spring;6(1):81–2

An open trial of venlafaxine in the treatment of attention–deficit/hyperactivity disorder in children and adolescents. Olvera RL, et al. **J Child Adolesc Psychopharmacol** 1996 Winter;6(4):241–50

Double–blind versus open evaluations of stimulant drug response in children with attention–deficit hyperactivity disorder. Sprafkin J, et al. **J Child Adolesc Psychopharmacol** 1996 Winter;6(4):215–28

Treatment of children with Williams syndrome with methylphenidate. Bawden HN, et al. **J Child Neurol** 1997 Jun;12(4):248–52

Algorithms for the treatment of affective illness, primary disorder of vigilance, and task–dependent attention disorders (learning disabilities) in children and adolescents. Weinberg WA, et al. **J Child Neurol** 1996 May;11(3):220–7

Pindolol and methylphenidate in children with attention–deficit hyperactivity disorder. Clinical efficacy and side–effects. Buitelaar JK, et al. **J Child Psychol Psychiatry** 1996 Jul;37(5):587–95

Error patterns on the continuous performance test in non–medicated and medicated samples of children with and without ADHD: a meta–analytic review. Losier BJ, et al. **J Child Psychol Psychiatry** 1996 Nov;37(8):971–87

Pharmacologic properties of venlafaxine [letter; comment] Smith MN. **J Clin Psychiatry** 1997 Apr;58(4):178–9. Comment on: J Clin Psychiatry 1996 May;57(5):184–9.

Combined treatment with moclobemide and methylphenidate for comorbid major depression and adult attention–deficit/hyperactivity disorder [letter] Myronuk LD, et al. **J Clin Psychopharmacol** 1996 Dec;16(6):468–9

Sense of time in children with ADHD: effects of duration, distraction, and stimulant medication. Barkley RA, et al. **J Int Neuropsychol Soc** 1997 Jul;3(4):359–69

Selegiline for the delivery of small doses of amphetamine [letter] Schaller JL, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):301–2

Methylphenidate vs dexamphetamine: a clinical audit [letter] Green C. **J Paediatr Child Health** 1996 Oct;32(5):470

Combined pharmacotherapy or polypharmacy? Levy F, et al. **J Paediatr Child Health** 1996 Jun;32(3):265–6

Self–induced overdose of ADHD medication. Pearson CC. **J Paediatr Child Health** 1996 Jun;32(3):267 (4 ref.)

National trends in the use of stimulant medication for attention deficit hyperactivity disorder. Valentine J, et al. **J Paediatr Child Health** 1996 Jun;32(3):223–7

Epilepsy and attention deficit hyperactivity disorder: is methylphenidate safe and effective? [see comments] Gross–Tsur V, et al. **J Pediatr** 1997 Jan;130(1):40–4. Comment in: J Pediatr 1997 Jan;130(1):6–9.

Use of growth hormone for non–growth hormone deficient children [letter; comment] Diller L. **JAMA** 1996 Dec 18; 276(23):1877–8; discussion 1878. Comment on: JAMA 1996 Aug 21;276(7):531–7. Comment on: JAMA 1996 Aug 21;276(7):567–8.

Management of children prescribed psychostimulant medication for attention deficit hyperactivity disorder in the Hunter region of NSW [see comments] Hazell PL, et al. **Med J Aust** 1996 Nov 4;165(9):477–80. Comment in: Med J Aust 1996 Nov 4;165(9):464–5.

Clonidine for treatment of attention–deficit/hyperactivity disorder. **Med Lett Drugs Ther** 1996 Dec 6;38(989):109–10

A controlled trial of deprenyl in children with Tourette's syndrome and attention deficit hyperactivity disorder. Feigin A, et al. **Neurology** 1996 Apr;46(4):965–8

Iron treatment in children with attention deficit hyperactivity disorder. A preliminary report. Sever Y, et al. **Neuropsychobiology** 1997;35(4):178–80

Cerebrospinal fluid homovanillic acid predicts behavioral response to stimulants in 45 boys with attention deficit/hyperactivity disorder. Castellanos FX, et al. **Neuropsychopharmacology** 1996 Feb;14(2):125–37

Benign hereditary chorea improved on stimulant therapy. Friederich RL. **Pediatr Neurol** 1996 May;14(4):326–7

Pemoline–associated hepatic failure: a critical analysis of the literature. Shevell M, et al. **Pediatr Neurol** 1997 Jan; 16(1):14–6 (22 ref.)

Medication for children with attention disorders [letter; comment] Colson ER. **Pediatrics** 1997 Jun;99(6):922–3. Comment on: Pediatrics 1996 Aug;98(2 Pt 1):301–4.

The case of the missing methylphenidate [letter] Diller L, et al. **Pediatrics** 1997 Oct;100(4):730–1

Side effects of methylphenidate and dexamphetamine in children with attention deficit hyperactivity disorder: a double–blind, crossover trial. Efron D, et al. **Pediatrics** 1997 Oct;100(4):662–6

Fragile X: treatment of hyperactivity [letter; comment] Hagerman R. **Pediatrics** 1997 May;99(5):753. Comment on: Pediatrics 1996 Aug;98(2 Pt 1):297–300.

Medication for children with attention disorders [letter; comment] Kash IJ. **Pediatrics** 1997 Jun;99(6):922–3. Comment on: Pediatrics 1996 Aug;98(2 Pt 1):301–4.

Increased methylphenidate usage for attention deficit disorder in the 1990s. Safer DJ, et al. **Pediatrics** 1996 Dec; 98(6 Pt 1):1084–8

Predictors of weight loss in children with attention deficit hyperactivity disorder treated with stimulant medication. Schertz M, et al. **Pediatrics** 1996 Oct;98(4 Pt 1):763–9

Hyperkinesias in a prepubertal boy with autistic disorder treated with haloperidol and valproic acid. Brasić JR, et al. **Psychol Rep** 1997 Feb;80(1):163–70

Open–label trial of venlafaxine in adults with attention deficit disorder. Adler LA, et al. **Psychopharmacol Bull** 1995; 31(4):785–8

Nicotine and attention in adult attention deficit hyperactivity disorder (ADHD). Conners CK, et al. **Psychopharmacol Bull** 1996;32(1):67–73

Selegiline in adults with attention deficit hyperactivity disorder: clinical efficacy and safety. Ernst M, et al. **Psychopharmacol Bull** 1996;32(3):327–34

An open trial of venlafaxine in adult patients with attention deficit hyperactivity disorder. Hedges D, et al. **Psychopharmacol Bull** 1995;31(4):779–83

Methylphenidate patterns among Medicaid youths. Zito JM, et al. **Psychopharmacol Bull** 1997;33(1):143–7

Nicotine effects on adults with attention–deficit/hyperactivity disorder. Levin ED, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):55–63

Does haloperidol block methylphenidate? Motivation or attention? Levy F, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):70–4

Clonidine: a practical guide for usage in children. Oesterheld J, et al. **S D J Med** 1996 Jul;49(7):234–7

Adults with attention deficit hyperactivity disorder: assessment and treatment considerations. Murphy K. **Semin Speech Lang** 1996 Aug;17(3):245–53; quiz 254 (35 ref.)

Behavioral effects of liothyronine (L–T3) in children with attention deficit hyperactivity disorder in the presence and absence of resistance to thyroid hormone. Weiss RE, et al. **Thyroid** 1997 Jun;7(3):389–93

[Effect of Aponeuron in the treatment of children with hyperkinetic syndrome] Paclt I, et al. **Ceska Slov Psychiatr** 1996 May;92 Suppl 1:41–57 (Eng. Abstr.) **(Cze)**

[Are monamine oxidase inhibitors in disposition to malignant hyperthermia contraindicated? Discussion based on a case report] Wappler F, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):349–53 (Eng. Abstr.) **(Ger)**

[Methylphenidate (Ritalin) treatment in attention deficit hyperactivity disorder] Shalev R, et al. **Harefuah** 1997 May 1;132(9):672–5 (33 ref.) **(Heb)**

[Attention deficit disorder: treatment with methylphenidate] Guerreiro MM, et al. **Arq Neuropsiquiatr** 1996 Mar; 54(1):25–9 (Eng. Abstr.) **(Por)**

["The amphetamine treatment helped my child". Is it time to reevaluate Swedish practice in hyperactivity syndrome?] **Lakartidningen** 1996 Nov 20;93(47):4307–8 **(Swe)**

[Central nervous system stimulants to hyperactive children? Time to soften up the attitude towards an efficient treatment] Gillberg C. **Lakartidningen** 1997 Jun 4; 94(23):2161–2 **(Swe)**

ENZYMOLOGY

Reduced CaMKII–positive neurones in the accumbens shell of an animal model of attention–deficit hyperactivity disorder. Papa M, et al. **Neuroreport** 1996 Nov 25; 7(18):3017–20

EPIDEMIOLOGY

Substance abuse and ADHD [letter; comment] Hughes JR. **Am J Psychiatry** 1997 Jan;154(1):132. Comment on: Am J Psychiatry 1995 Nov;152(11):1652–8.

Comorbidity in hyperactive children: issues related to selection bias, gender, severity, and internalizing symptoms. Gabel S, et al. **Child Psychiatry Hum Dev** 1996 Fall; 27(1):15–28

Persistent school dysfunction: unrecognized comorbidity and suboptimal therapy. Kube DA, et al. **Clin Pediatr (Phila)** 1996 Nov;35(11):571–6

Attention deficit hyperactivity disorder adults: comorbidities and adaptive impairments. Murphy K, et al. **Compr Psychiatry** 1996 Nov–Dec;37(6):393–401

ADHD, DAMP and other neurodevelopmental/psychiatric disorders in 6–year–old children: epidemiology and co–morbidity. Landgren M, et al. **Dev Med Child Neurol** 1996 Oct;38(10):891–906

Psychiatric sequelae of low birth weight at 6 years of age. Breslau N, et al. **J Abnorm Child Psychol** 1996 Jun; 24(3):385–400

Learning disorders and the thyroid [letter] Bhatara VS, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr; 35(4):406–7

Patterns of comorbidity associated with subtypes of attention–deficit/hyperactivity disorder among 6– to 12–year–old children. Eiraldi RB, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):503–14

Is comorbidity with ADHD a marker for juvenile–onset mania? Faraone SV, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1046–55

Gender differences in ADHD: a meta–analysis and critical review. Gaub M, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1036–45

Prevalence and implications of attention–deficit hyperactivity disorder among adolescents in treatment for substance abuse. Horner BR, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jan;36(1):30–6

Is season of birth a risk factor for attention–deficit hyperactivity disorder? Mick E, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1470–6

ADHD is associated with early initiation of cigarette smoking in children and adolescents. Milberger S, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jan;36(1):37–44

Inattentive and hyperactive behaviors and driving offenses in adolescence. Nada–Raja S, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):515–22

Associated psychopathology in children with both ADHD and chronic tic disorder. Nolan EE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1622–30

Gender and drug differences in antisocial personality disorder. Brown JM, et al. **J Clin Psychol** 1997 Jun; 53(4):301–5

Do attention deficit hyperactivity disorder and major depression share familial risk factors? Faraone SV, et al. **J Nerv Ment Dis** 1997 Sep;185(9):533–41 (64 ref.)

Attention deficit hyperactivity disorder (ADHD) is associated with early onset substance use disorders. Wilens TE, et al. **J Nerv Ment Dis** 1997 Aug;185(8):475–82

The overlap of attention deficit hyperactivity disorder with other common mental disorders. Hazell P. **J Paediatr Child Health** 1997 Apr;33(2):131–7 (60 ref.)

Childhood hyperactivity [letter; comment] Ali O. **Lancet** 1996 Sep 28;348(9031):895–6. Comment on: Lancet 1996 Jul 13;348(9020):73–4.

ETIOLOGY

Etiology and pathogenesis of attention–deficit hyperactivity disorder (ADHD): significance of prematurity and perinatal hypoxic–haemodynamic encephalopathy. Lou HC. **Acta Paediatr** 1996 Nov;85(11):1266–71 (52 ref.)

ADHD and maternal smoking during pregnancy [letter; comment] Chabrol H, et al. **Am J Psychiatry** 1997 Aug; 154(8):1177–8. Comment on: Am J Psychiatry 1996 Sep;153(9):1138–42.

Attentional deficits in stroke patients: a visual dual task experiment. Marshall SC, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):7–12

Pregnancy, delivery and infancy complications and attention deficit hyperactivity disorder: issues of gene–environment interaction. Milberger S, et al. **Biol Psychiatry** 1997 Jan 1;41(1):65–75

Topographic mapping of brain electrical activity in children with food–induced attention deficit hyperkinetic disorder. Uhlig T, et al. **Eur J Pediatr** 1997 Jul;156(7):557–61

Psychiatric sequelae of low birth weight at 6 years of age. Breslau N, et al. **J Abnorm Child Psychol** 1996 Jun; 24(3):385–400

ADHD and FAS [letter] Oesterheld JR, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1163

Basal ganglia volumes in children with attention–deficit hyperactivity disorder. Aylward EH, et al. **J Child Neurol** 1996 Mar;11(2):112–5

Attention deficit hyperactivity disorder: an evolutionary perspective. Shelley–Tremblay JF, et al. **J Genet Psychol** 1996 Dec;157(4):443–53 (23 ref.)

The role of diet and behaviour in childhood. Breakey J. **J Paediatr Child Health** 1997 Jun;33(3):190–4 (40 ref.)

GENETICS

Behavioral and cognitive measurements predict scores on the MAST: a 3–year prospective study. Deckel AW, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1173–8

Genetic influences in childhood–onset psychiatric disorders: autism and attention–deficit/hyperactivity disorder. Smalley SL. **Am J Hum Genet** 1997 Jun;60(6):1276–82 (74 ref.)

Absence of linkage of apparently single gene mediated ADHD with the human syntenic region of the mouse mutant Coloboma. Hess EJ, et al. **Am J Med Genet** 1995 Dec 18;60(6):573–9

New phenotype definition of attention deficit hyperactivity disorder in relatives for genetic analyses. Milberger S, et al. **Am J Med Genet** 1996 Jul 26;67(4):369–77

Twin concordance for attention deficit hyperactivity disorder: a comparison of teachers' and mothers' reports. Sherman DK, et al. **Am J Psychiatry** 1997 Apr;154(4):532–5

Methylphenidate and attentional training. Comparative effects on behavior and neurocognitive performance in twin girls with attention–deficit/hyperactivity disorder. Rapport MD, et al. **Behav Modif** 1996 Oct;20(4):428–30

Attention deficit hyperactivity disorder in a multigenerational pedigree. Faraone SV, et al. **Biol Psychiatry** 1996 May 15; 39(10):906–8

Families of children with attention deficit hyperactivity disorder: a review [see comments] Hechtman L. **Can J Psychiatry** 1996 Aug;41(6):350–60 (45 ref.). Comment in: Can J Psychiatry 1997 Mar;42(2):211.

Families of patients with attention–deficit hyperactivity disorder [letter; comment] Jerome L. **Can J Psychiatry** 1997 Mar;42(2):211. Comment on: Can J Psychiatry 1996 Aug;41(6):350–60.

A prospective four–year follow–up study of children at risk for ADHD: psychiatric, neuropsychological, and psychosocial outcome. Faraone SV, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1449–59

Genetic influence on parent–reported attention–related problems in a Norwegian general population twin sample. Gjone H, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May;35(5):588–96; discussion 596–8

Attention–deficit hyperactivity disorder: a category or a continuum? Genetic analysis of a large–scale twin study. Levy F, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):737–44

Attention–deficit hyperactivity disorder dimensions: a twin study of inattention and impulsivity–hyperactivity. Sherman DK, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):745–53

Twin sibling differences in parental reports of ADHD, speech, reading and behaviour problems. Levy F, et al. **J Child Psychol Psychiatry** 1996 Jul;37(5):569–78

Confirmation of association between attention deficit hyperactivity disorder and a dopamine transporter polymorphism. Gill M, et al. **Mol Psychiatry** 1997 Jul; 2(4):311–3

Dopamine D4 receptor gene polymorphism is associated with attention deficit hyperactivity disorder [see comments] LaHoste GJ, et al. **Mol Psychiatry** 1996 May;1(2):121–4. Comment in: Mol Psychiatry 1996 May;1(2):83–4.

Attention deficit hyperactivity disorder associated with orbitofrontal epilepsy in a father and a son. Powell AL, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr;10(2):151–4

Association of genes within the major histocompatibility complex with attention deficit hyperactivity disorder. Odell JD, et al. **Neuropsychobiology** 1997;35(4):181–6

Attention deficit disorder and conduct disorder: longitudinal evidence for a familial subtype. Faraone SV, et al. **Psychol Med** 1997 Mar;27(2):291–300

HISTORY

Pharmacist with ADD helps others. Meade V. **J Am Pharm Assoc (Wash)** 1996 Aug;NS36(8):496

IMMUNOLOGY

Immunological influences in attention–deficit disorder and schizophrenia; is there a link between these two conditions? Holden RJ, et al. **Med Hypotheses** 1995 Dec;45(6):575–87 (121 ref.)

METABOLISM

The dopamine D4 receptor and attention deficit hyperactivity disorder [editorial; comment] Licinio J. **Mol Psychiatry** 1996 May;1(2):83–4. Comment on: Mol Psychiatry 1996 May;1(2):121–4.

Selegiline in ADHD adults: plasma monoamines and monoamine metabolites. Ernst M, et al. **Neuropsychopharmacology** 1997 Apr;16(4):276–84

Differential expression of transcription factors in the accumbens of an animal model of ADHD. Papa M, et al. **Neuroreport** 1997 May 6;8(7):1607–12

PATHOLOGY

The corpus callosum and lateral ventricles in children with attention–deficit hyperactivity disorder: a brain magnetic resonance imaging study. Lyoo IK, et al. **Biol Psychiatry** 1996 Nov 15;40(10):1060–3

Implication of right frontostriatal circuitry in response inhibition and attention–deficit/hyperactivity disorder. Casey BJ, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Mar;36(3):374–83

ADHD: a circuitry problem [news] **J Psychosoc Nurs Ment Health Serv** 1996 Nov;34(11):6

Corpus callosum morphology in children with Tourette syndrome and attention deficit hyperactivity disorder. Baumgardner TL, et al. **Neurology** 1996 Aug;47(2):477–82

PHYSIOPATHOLOGY

Functional MR to localize sustained visual attention activation in patients with attention deficit hyperactivity disorder: a pilot study. Sunshine JL, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):633–7

An analysis of score patterns of children with attention disorders on the Sensory Integration and Praxis Tests. Mulligan S. **Am J Occup Ther** 1996 Sep;50(8):647–54

Restlessness: the anatomy of a neuropsychiatric symptom. Sachdev P, et al. **Aust N Z J Psychiatry** 1996 Feb; 30(1):38–53 (100 ref.)

Quantitative electroencephalographic profiles of children with attention deficit disorder. Chabot RJ, et al. **Biol Psychiatry** 1996 Nov 15;40(10):951–63

Age–related changes in the association between serotonergic function and aggression in boys with ADHD. Halperin JM, et al. **Biol Psychiatry** 1997 Mar 15;41(6):682–9

Effects of methylphenidate on event–related potentials and performance of attention–deficit hyperactivity disorder children in auditory and visual selective attention tasks. Jonkman LM, et al. **Biol Psychiatry** 1997 Mar 15; 41(6):690–702

Event–related potentials and performance of attention–deficit hyperactivity disorder: children and normal controls in auditory and visual selective attention tasks. Jonkman LM, et al. **Biol Psychiatry** 1997 Mar 1;41(5):595–611

Continuous–processing––related event–related potentials in children with attention deficit hyperactivity disorder. Strandburg RJ, et al. **Biol Psychiatry** 1996 Nov 15; 40(10):964–80

Frontocortical activity in children with comorbidity of tic disorder and attention–deficit hyperactivity disorder. Yordanova J, et al. **Biol Psychiatry** 1997 Mar 1;41(5):585–94

Auditory event–related potentials (ERPs) and mismatch negativity (MMN) in healthy children and those with attention–deficit or tourette/tic symptoms. Oades RD, et al. **Biol Psychol** 1996 Apr 12;43(2):163–85

Abnormalities in sustained attention and anterior cingulate metabolism in subjects with resistance to thyroid hormone. Matochik JA, et al. **Brain Res** 1996 Jun 3;723(1–2):23–8

Evaluation of auditory discrimination in children with ADD and without ADD. Geffner D, et al. **Child Psychiatry Hum Dev** 1996 Spring;26(3):169–79

Perception of loudness in children with ADD and without ADD. Lucker JR, et al. **Child Psychiatry Hum Dev** 1996 Spring;26(3):181–90

Neurophysiological methods testing the psychoneural basis of attention deficit hyperactivity disorder. Uclés P, et al. **Childs Nerv Syst** 1996 Apr;12(4):215–7

Attention–deficit hyperactivity disorder (ADHD) and frontal–motor cortex disconnection. Niedermeyer E, et al. **Clin Electroencephalogr** 1997 Jul;28(3):130–6 (53 ref.)

Toward a pathophysiology of attention–deficit/hyperactivity disorder. Castellanos FX. **Clin Pediatr (Phila)** 1997 Jul; 36(7):381–93 (154 ref.)

Somatosensory functioning in children with attention deficit hyperactivity disorder. Parush S, et al. **Dev Med Child Neurol** 1997 Jul;39(7):464–8

Kinaesthetic acuity and fine motor skills in children with attention deficit hyperactivity disorder: a preliminary report. Whitmont S, et al. **Dev Med Child Neurol** 1996 Dec; 38(12):1091–8

Is the behaviour of hyperactive children disorganized and chaotic? An information–theoretical approach. Willemsen–Swinkels SH, et al. **Eur Child Adolesc Psychiatry** 1996 Sep;5(3):139–46

Topographic mapping of brain electrical activity in children with food–induced attention deficit hyperkinetic disorder. Uhlig T, et al. **Eur J Pediatr** 1997 Jul;156(7):557–61

Deficits in selective and sustained attention processes in early treated children with phenylketonuria––result of impaired frontal lobe functions? Weglage J, et al. **Eur J Pediatr** 1996 Mar;155(3):200–4

Sex differences in ADHD: conference summary. Arnold LE. **J Abnorm Child Psychol** 1996 Oct;24(5):555–69 (55 ref.)

Neuropsychological functioning, motor speed, and language processing in boys with and without ADHD. Carte ET, et al. **J Abnorm Child Psychol** 1996 Aug;24(4):481–98

ADHD and EEG [letter; comment] Diamond JM. **J Am Acad Child Adolesc Psychiatry** 1997 May;36(5):575–7 . Comment on: J Am Acad Child Adolesc Psychiatry 1996 Aug;35(8):1009–17.

Catecholamines in ADHD: a postscript [letter; comment] Pliszka SR, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jul;36(7):869–70. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Mar;35(3):264–72.

Plasma cortisol and aggression in boys with ADHD. Schulz KP, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):605–9

A pilot study of neuropsychological function in girls with ADHD. Seidman LJ, et al.

J Am Acad Child Adolesc Psychiatry 1997 Mar;36(3):366–73

Right hemisphere dysfunction in subjects with attention–deficit disorder with and without hyperactivity. García–Sánchez C, et al. **J Child Neurol** 1997 Feb; 12(2):107–15

Electrophysiologic measures of delayed maturation in attention–deficit hyperactivity disorder. Uclés P, et al. **J Child Neurol** 1996 Mar;11(2):155–6

Toward defining a neuropsychology of attention deficit–hyperactivity disorder: performance of children and adolescents from a large clinically referred sample. Seidman LJ, et al. **J Consult Clin Psychol** 1997 Feb;65(1):150–60

Sense of time in children with ADHD: effects of duration, distraction, and stimulant medication. Barkley RA, et al. **J Int Neuropsychol Soc** 1997 Jul;3(4):359–69

Attention deficit disorder and hyperactivity—changes in hypothalamic function in hyperactive children: a new model. Peled O, et al. **Med Hypotheses** 1997 Mar; 48(3):267–75

Auditory vertex potential in children: a cognitive hypothesis. Van Sweden B, et al. **Neuropsychobiology** 1997;35(1):51–6

An attempt towards differentiating attentional deficits in traumatic brain injury. Niemann H, et al. **Neuropsychol Rev** 1996 Mar;6(1):11–46 (125 ref.)

Attention deficits in depression: an electrophysiological marker. el Massioui F, et al. **Neuroreport** 1996 Nov 4; 7(15–17):2483–6

Baseline respiratory sinus arrhythmia and heart–rate responses during auditory stimulation of children with attention–deficit hyperactivity disorder. Shibagaki M, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):967–75

Auditory event–related potentials to a two–tone discrimination paradigm in attention deficit hyperactivity disorder. Johnstone SJ, et al. **Psychiatry Res** 1996 Oct 16; 64(3):179–92

Differences in thyroid function studies in acutely manic adolescents with and without attention deficity hyperactivity disorder (ADHD). West SA, et al. **Psychopharmacol Bull** 1996;32(1):63–6

Excessive daytime sleepiness in a 13–year–old. Kotagal S, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):170–2

[Electroencephalographic study of hyperactivity in children] Gorbachevskaia NL, et al. **Fiziol Cheloveka** 1996 Sep–Oct; 22(5):49–55 **(Rus)**

PREVENTION & CONTROL

Prevalence of ADHD and comorbid disorders among elementary school children screened for disruptive behavior. August GJ, et al. **J Abnorm Child Psychol** 1996 Oct;24(5):571–95

Effects of an educational intervention on mothers of male children with attention deficit hyperactivity disorder. Odom SE. **J Community Health Nurs** 1996;13(4):207–20

[New mental development screening test for use in health examinations of infants] Yoshikawa R, et al. **Nippon Koshu Eisei Zasshi** 1997 Mar;44(3):207–20 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Personal and familial characteristics of resilient sons of male alcoholics. Vitaro F, et al. **Addiction** 1996 Aug; 91(8):1161–77

Alcohol expectancies and drinking characteristics in parents of children with attention deficit hyperactivity disorder. Molina BS, et al. **Alcohol Clin Exp Res** 1997 May; 21(3):557–66

Further evidence of an association between attention–deficit/hyperactivity disorder and cigarette smoking. Findings from a high–risk sample of siblings. Milberger S, et al. **Am J Addict** 1997 Summer;6(3):205–17

Comparison of sustained and selective attention in children who have mental retardation with and without attention deficit hyperactivity disorder. Pearson DA, et al. **Am J Ment Retard** 1996 May;100(6):592–607

Cognitive differences between anxious, normal, and ADHD children on a dichotic listening task. Manassis K, et al. **Anxiety** 1996;2(6):279–85

Magnetic resonance imaging measurement of the caudate nucleus in adolescents with attention–deficit hyperactivity disorder and its relationship with neuropsychological and behavioral measures. Mataró M, et al. **Arch Neurol** 1997 Aug;54(8):963–8

Age–related changes in the association between serotonergic function and aggression in boys with ADHD. Halperin JM, et al. **Biol Psychiatry** 1997 Mar 15;41(6):682–9

Smooth pursuit eye movements in childhood–onset schizophrenia: comparison with attention–deficit hyperactivity disorder and normal controls. Jacobsen LK, et al. **Biol Psychiatry** 1996 Dec 1;40(11):1144–54

Blink rate in childhood–onset schizophrenia: comparison with normal and attention–deficit hyperactivity disorder controls. Jacobsen LK, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1222–9

Event–related brain potentials in children with attention–deficit and hyperactivity disorder: effects of stimulus deviancy and task relevance in the visual and auditory modality. Kemner C, et al. **Biol Psychiatry** 1996 Sep 15;40(6):522–34

Electrophysiological indices of information processing in methylphenidate responders. Winsberg BG, et al. **Biol Psychiatry** 1997 Sep 15;42(6):434–45

A fifty–year follow–up of an abandoned child: a personal commentary. Beiser HR. **Child Psychiatry Hum Dev** 1996 Summer;26(4):211–20

Neurophysiological methods testing the psychoneural basis of attention deficit hyperactivity disorder. Uclés P, et al. **Childs Nerv Syst** 1996 Apr;12(4):215–7

Inhibition in boys with attention deficit hyperactivity disorder as indexed by heart rate change. Jennings JR, et al. **Dev Psychol** 1997 Mar;33(2):308–18

Effects of methylphenidate and expectancy of ADHD children's performance, self–evaluations, persistence, and attributions on a cognitive task. Pelham WE, et al. **Exp Clin Psychopharmacol** 1997 Feb;5(1):3–13

Coexistence of tics and hyperactivity in children: no additive at the psychophysiological level. Yordanova J, et al. **Int J Psychophysiol** 1996 Feb–Mar;21(2–3):121–33

Sex differences in ADHD: conference summary. Arnold LE. **J Abnorm Child Psychol** 1996 Oct;24(5):555–69 (55 ref.)

A sequential analysis of the mother–adolescent interactions of ADHD, ADHD/ODD, and normal teenagers during neutral and conflict discussions. Fletcher KE, et al. **J Abnorm Child Psychol** 1996 Jun;24(3):271–97

Parent characteristics and parent–child interactions in families of nonproblem children and ADHD children with higher and lower levels of oppositional–defiant behavior. Johnston C. **J Abnorm Child Psychol** 1996 Feb;24(1):85–104

Methylphenidate slows reactions of children with attention deficit disorder during and after an error. Krusch DA, et al. **J Abnorm Child Psychol** 1996 Oct;24(5):633–50

What they want and what they get: the social goals of boys with ADHD and comparison boys. Melnick SM, et al. **J Abnorm Child Psychol** 1996 Apr;24(2):169–85

Inhibition in ADHD, aggressive, and anxious children: a biologically based model of child psychopathology. Oosterlaan J, et al. **J Abnorm Child Psychol** 1996 Feb; 24(1):19–36

Changing a response set in normal development and in ADHD children with and without tics. van der Meere J, et al. **J Abnorm Child Psychol** 1996 Dec;24(6):767–86

Is childhood oppositional defiant disorder a precursor to adolescent conduct disorder? Findings from a four–year follow–up study of children with ADHD. Biederman J, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Sep; 35(9):1193–204

Implication of right frontostriatal circuitry in response inhibition and attention–deficit/hyperactivity disorder. Casey BJ, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Mar;36(3):374–83

Relationship between early abuse, posttraumatic stress disorder, and activity levels in prepubertal children. Glod CA, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Oct; 35(10):1384–93

Attention problems versus conduct problems as six–year predictors of problem scores in a national sample. MacDonald VM, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Sep; 35(9):1237–46

A pilot study of neuropsychological function in girls with ADHD. Seidman LJ, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Mar;36(3):366–73

Is ADHD social disability really comorbidity? [letter; comment] Stein MA, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1570–1. Comment on: J Am Acad Child Adolesc Psychiatry 1996 May;35(5):571–8.

Hyperactivity and conduct problems as risk factors for adolescent development. Taylor E, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Sep; 35(9):1213–26

Methylphenidate slows right hemisphere processing in children with attention–deficit/hyperactivity disorder. Campbell L, et al. **J Child Adolesc Psychopharmacol** 1996 Winter;6(4):229–39

Precision, reliability and accuracy in the dating of symptom onsets in child and adolescent psychopathology. Angold A, et al. **J Child Psychol Psychiatry** 1996 Sep;37(6):657–64

Seven–year follow–up of speech/language impaired and control children: psychiatric outcome. Beitchman JH, et al. **J Child Psychol Psychiatry** 1996 Nov;37(8):961–70

Debate and argument: delay aversion versus impulsivity: testing for dysfunction in ADHD [comment] Schweitzer JB. **J Child Psychol Psychiatry** 1996 Nov;37(8):1027–8. Comment on: J Child Psychol Psychiatry 1996 Nov;37(8):1023–5.

Debate and argument: when "impulsiveness" is delay aversion; a reply to Schweitzer and Sulzer–Azaroff (1995) [see comments] Sonuga–Barke EJ. **J Child Psychol Psychiatry** 1996 Nov;37(8):1023–5. Comment in: J Child Psychol Psychiatry 1996 Nov;37(8):1027–8.

Social problem solving in hyperactive–aggressive children: how and what they think in conditions of automatic and controlled processing. Bloomquist ML, et al. **J Clin Child Psychol** 1997 Jun;26(2):172–80

Father involvement and self–reported parenting of children with attention deficit–hyperactivity disorder. Arnold EH, et al. **J Consult Clin Psychol** 1997 Apr;65(2):337–42

Attributions for child behavior in parents of children without behavior disorders and children with attention deficit–hyperactivity disorder. Johnston C, et al. **J Consult Clin Psychol** 1997 Aug;65(4):636–45

Sense of time in children with ADHD: effects of duration, distraction, and stimulant medication. Barkley RA, et al. **J Int Neuropsychol Soc** 1997 Jul;3(4):359–69

Rehearsal strategies and recall performance in boys with and without attention deficit hyperactivity disorder. O'Neill ME, et al. **J Pediatr Psychol** 1996 Feb;21(1):73–88

Attention deficit disorder in adults and nicotine dependence: psychobiological factors in resistance to recovery? Coger RW, et al. **J Psychoactive Drugs** 1996 Jul–Sep;28(3):229–40 (56 ref.)

Personality differences related to smoking and adult attention deficit hyperactivity disorder. Downey KK, et al. **J Subst Abuse** 1996;8(1):129–35

Behavioral and pharmacological studies on the validation of a new animal model for attention deficit hyperactivity disorder. Puumala T, et al. **Neurobiol Learn Mem** 1996 Sep; 66(2):198–211

Covert visual spatial attention in boys with attention deficit hyperactivity disorder: lateral effects, methylphenidate response and results for parents. Nigg JT, et al. **Neuropsychologia** 1997 Feb;35(2):165–76

Selegiline in ADHD adults: plasma monoamines and monoamine metabolites. Ernst M, et al. **Neuropsychopharmacology** 1997 Apr;16(4):276–84

Prevalence of parental substance–abuse among child psychiatric inpatients. Pillay AL, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):947–53

Personal accounts. Where do I fit in? Clevenger TD. **Psychiatr Serv** 1997 Aug;48(8):1007–8

States of overstimulation in early childhood. Rosenblitt DL. **Psychoanal Study Child** 1996;51:542–61

Behavioral inhibition, sustained attention, and executive functions: constructing a unifying theory of ADHD. Barkley RA. **Psychol Bull** 1997 Jan;121(1):65–94 (400 ref.)

Early identification of chronic offenders: who is the fledgling psychopath? Lynam DR. **Psychol Bull** 1996 Sep; 120(2):209–34 (240 ref.)

Psychophysiological response of ADHD children to reward and extinction. Iaboni F, et al. **Psychophysiology** 1997 Jan; 34(1):116–23

Behavioral effects of liothyronine (L–T3) in children with attention deficit hyperactivity disorder in the presence and absence of resistance to thyroid hormone. Weiss RE, et al. **Thyroid** 1997 Jun;7(3):389–93

[Hyperactivity at 18 months of age and attention–deficit hyperactivity disorder before entry to school—follow up study from 18 months to 6 years] Yoshikawa R. **Seishin Shinkeigaku Zasshi** 1997;99(2):47–67 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

High–resolution brain SPECT imaging in ADHD. Amen DG, et al. **Ann Clin Psychiatry** 1997 Jun;9(2):81–6

REHABILITATION

Evaluation of a short–term computer–assisted training programme for the remediation of attentional deficits after brain injury: a preliminary study. Gauggel S, et al. **Int J Rehabil Res** 1996 Sep;19(3):229–39

ADHD and eligibility for special ed [letter] Kroplick ML. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):446–7

[Laser therapy in the combined health–resort treatment of children with the sequelae of a perinatal brain lesion] Babina LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):11–3 **(Rus)**

THERAPY

Attention–deficit hyperactivity disorder: to treat or not [letter] Fark A. **Am Fam Physician** 1997 Sep 1;56(3):734, 736

Evaluation and management of attention–deficit hyperactivity disorder [see comments] Taylor MA. **Am Fam Physician** 1997 Feb 15;55(3):887–94, 897, 901 passim (19 ref.). Comment in: Am Fam Physician 1997 Feb 15;55(3):773–4.

National Institute of Mental Health Collaborative Multimodal Treatment Study of Children with ADHD (the MTA). Design challenges and choices. Arnold LE, et al. **Arch Gen Psychiatry** 1997 Sep;54(9):865–70

A controlled study of the effects of EEG biofeedback on cognition and behavior of children with attention deficit disorder and learning disabilities. Linden M, et al. **Biofeedback Self Regul** 1996 Mar;21(1):35–49

AACAP Official Action. Summary of the practice parameters for the assessment and treatment of children, adolescents, and adults with ADHD. Dulcan MK, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1311–7

Parent–assisted transfer of children's social skills training: effects on children with and without attention–deficit hyperactivity disorder. Frankel F, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1056–64

Developmental considerations in the treatment of school–age boys with ADHD: an example of a group treatment approach. Lock J. **J Am Acad Child Adolesc Psychiatry** 1996 Nov;35(11):1557–9

A rapid method for evaluating the necessity for both a behavioral intervention and methylphenidate. Kayser KH, et al. **J Appl Behav Anal** 1997 Spring;30(1):177–80

A preliminary analysis of interactive effects between common classroom contingencies and methylphenidate. Northup J, et al. **J Appl Behav Anal** 1997 Spring;30(1):121–5

Effects of choosing academic assignments on a student with attention deficit hyperactivity disorder. Powell S, et al. **J Appl Behav Anal** 1997 Spring;30(1):181–3

"We've tried everything and nothing works": family–centered pediatrics and clinical problem–solving [clinical conference] Stein MT, et al. **J Dev Behav Pediatr** 1997 Apr;18(2):114–9

Self–induced overdose of ADHD medication [letter] Harris MJ. **J Paediatr Child Health** 1997 Apr;33(2):176

Parent acceptability and feasibility of ADHD interventions: assessment, correlates, and predictive validity. Bennett DS, et al. **J Pediatr Psychol** 1996 Oct;21(5):643–57

Tics, Tourette's, and attention deficit hyperactivity disorders: connections and treatment. Mitchell A, et al. **MCN Am J Matern Child Nurs** 1996 Nov–Dec; 21(6):294–300 (44 ref.)

Improving diagnosis and management of attention deficit hyperactivity disorder in Australia [editorial; comment] Carmichael A. **Med J Aust** 1996 Nov 4;165(9):464–5. Comment on: Med J Aust 1996 Nov 4;165(9):477–80.

Clinical recognition and management of adult attention deficit hyperactivity disorder. Craig C. **Nurse Pract** 1996 Nov;21(11):101–6, 108 (39 ref.)

Attention–deficit hyperactivity disorder. Pharmacotherapy and beyond. Tan G, et al. **Postgrad Med** 1997 May; 101(5):201–4, 213–4, 216 passim (19 ref.)

Intervention strategies for students with ADHD: creating a holistic approach. Damico SK, et al. **Semin Speech Lang** 1996 Feb;17(1):21–35

Treatment of attention deficit hyperactivity disorder: a multi–modal model for schools. Maag JW, et al. **Semin Speech Lang** 1996 Feb;17(1):37–58 (72 ref.)

Attaining, sustaining, and focusing attention: intervention for children with ADHD. Norris JA, et al. **Semin Speech Lang** 1996 Feb;17(1):59–71 (30 ref.)

[Treatment failures and analysis of resistance in behavior therapy exemplified by a parent–child program for the treatment of hyperkinetic and oppositional children] Dopfner M, et al. **Prax Kinderpsychol Kinderpsychiatr** 1996 Jan;45(1):10–19 (0 ref.) (Eng. Abstr.) **(Ger)**

[Therapy program for children with hyperkinetic and oppositional problem behavior––organization and single case evaluation] Döpfner M, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):145–63 (Eng. Abstr.) **(Ger)**

[Treatment of hyperkinetic children in the home environment] Göpel C, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):192–202 (Eng. Abstr.) **(Ger)**

[Behavior medicine indications and evaluation of cognitive–behavioral therapy with attention–deficit/hyperkinetic children] Lauth GW, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):164–75 (Eng. Abstr.) **(Ger)**

URINE

Urinary epinephrine excretion during intelligence testing in attention–deficit hyperactivity disorder and normal boys. Hanna GL, et al. **Biol Psychiatry** 1996 Sep 15;40(6):553–5

Catecholamines in attention–deficit hyperactivity disorder: current perspectives [see comments] Pliszka SR, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):264–72 (72 ref.). Comment in: J Am Acad Child Adolesc Psychiatry 1997 Jul;36(7):869–70.

Urinary catecholamine excretion and behavioral differences in ADHD and normal boys. Hanna GL, et al. **J Child Adolesc Psychopharmacol** 1996 Spring;6(1):63–73

ATTENTION DEFICIT HYPERACTIVITY DISORDER
see **ATTENTION DEFICIT DISORDER WITH HYPERACTIVITY**

ATTITUDE

see related
PUBLIC OPINION
SET (PSYCHOLOGY)

Frequency and effect of negative comments ("badmouthing") on medical students' career choices. Hunt DD, et al. **Acad Med** 1996 Jun;71(6):665–9

Faculty attitudes and opinions about problem–based learning. Vernon DT, et al. **Acad Med** 1996 Nov;71(11):1233–8

Medical students' attitudes toward radiology: comparison of matriculating and graduating students. Kazerooni EA, et al. **Acad Radiol** 1997 Aug;4(8):601–7

Attitudes and road accident risk. Assum T. **Accid Anal Prev** 1997 Mar;29(2):153–9

Clinical cancer research––some aspects on doctors' attitudes to informing participants. Lynöe N, et al. **Acta Oncol** 1996; 35(6):749–54

The relativity of unrealistic optimism. Zakay D. **Acta Psychol (Amst)** 1996 Sep;93(1–3):121–31

Student responses to economic reform in China. Chunhou Z, et al. **Adolescence** 1996 Fall;31(123):663–76

Late adolescents' perceptions of their caregiver's feeding styles and practices and those they will use with their own children. Fletcher J, et al. **Adolescence** 1997 Summer; 32(126):287–98

Knowledge and attitudes toward sexuality in adolescents and their association with the family and other factors. Huerta–Franco R, et al. **Adolescence** 1996 Spring; 31(121):179–91

Adolescent attitudes about rape. Kershner R. **Adolescence** 1996 Spring;31(121):29–33

Adolescents' attitude toward female gender roles: implications for education. Mills R, et al. **Adolescence** 1996 Fall;31(123):741–5

Family stress, perception of pregnancy, and age of first menarche among pregnant adolescents. Ravert AA, et al. **Adolescence** 1997 Summer;32(126):261–9

Elementary school students' attitudes toward science and their course of studies in high school. Shamai S. **Adolescence** 1996 Fall;31(123):677–89

Language arts achievement level, attitude survey format, and adolescents' attitudes towards reading. Smith LR, et al. **Adolescence** 1997 Summer;32(126):271–4

Compulsory HIV testing: medical students' views [letter] Williams S, et al. **AIDS** 1996 Nov;10(13):1608–9

Deaf adults' attitudes toward career choices for deaf and hearing people in India. Parasnis I, et al. **Am Ann Deaf** 1996 Dec;141(5):333–9

Medical student and patient attitudes toward religion and spirituality in the recovery process. Goldfarb LM, et al. **Am J Drug Alcohol Abuse** 1996 Nov;22(4):549–61

Patient and physician perception of need for emergency medical care: a prospective and retrospective analysis. Hunt RC, et al. **Am J Emerg Med** 1996 Nov;14(7):635–9

Medicine chairs' views on the impact of managed care on departments of internal medicine. Fogelman AM, et al. **Am J Med** 1996 Oct;101(4):331–7

Parental responses to a child bicycle helmet ordinance. Caplow MP, et al. **Am J Prev Med** 1995 Nov–Dec; 11(6):371–4

What will clinical quality performance measurement mean to you? It all depends on your attitude. Gottlieb LK. **Am J Prev Med** 1995 Nov–Dec;11(6):407–8

Normatology: a review and commentary with reference to abortion and physician–assisted suicide. Brodie HK, et al. **Am J Psychiatry** 1997 Jun;154(6 Suppl):13–9 (42 ref.)

Attitudes regarding advance directives among patients in pulmonary rehabilitation. Heffner JE, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1735–40

Assumptions [editorial] Leach RE. **Am J Sports Med** 1997 Jul–Aug;25(4):423

Parental desire for perioperative information and informed consent: a two–phase study. Kain ZN, et al. **Anesth Analg** 1997 Feb;84(2):299–306

Truth–telling, risk, and hope. Surbone A. **Ann N Y Acad Sci** 1997 Feb 20;809:72–9

Attitudes and attitude change. Petty RE, et al. **Annu Rev Psychol** 1997;48:609–47 (270 ref.)

Social anxiety and perception of early parenting among American, Chinese American, and social phobic samples. Leung AW, et al. **Anxiety** 1994;1(2):80–9

Food preferences and eating attitudes in three generations of black and white women. Dacosta KO, et al. **Appetite** 1996 Oct;27(2):183–91

Eating sweet snacks: gender differences in attitudes and behaviour. Grogan SC, et al. **Appetite** 1997 Feb;28(1):19–31

Consumers' views on food quality. A qualitative interview study. Holm L, et al. **Appetite** 1996 Aug;27(1):1–14

Food preferences and chemical senses: comments on the food attitude survey of Frank and van der Klaauw. Meiselman HL. **Appetite** 1996 Oct;27(2):193–5; discussion 196

Factors contributing to hope among noninstitutionalized elderly. Zorn CR. **Appl Nurs Res** 1997 May;10(2):94–100

Attitude toward alternative therapy, compliance with standard treatment, and need for emotional support in patients with melanoma [see comments] Söllner W, et al. **Arch Dermatol** 1997 Mar;133(3):316–21. Comment in: Arch Dermatol 1997 Mar;133(3):379–80.

Foster and adoptive mothers' assessment of permanent family placements. Holloway JS. **Arch Dis Child** 1997 Mar; 76(3):231–5

Sexuality of young women surviving leukaemia. Puukko LR, et al. **Arch Dis Child** 1997 Mar;76(3):197–202

Judicial attitudes to expert evidence in children's cases. Wall N. **Arch Dis Child** 1997 Jun;76(6):485–7

The father's role during infancy. Factors that influence maternal expectations. Grant CC, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):705–11

Attitudes about sibling visitation in the neonatal intensive care unit. Meyer EC, et al. **Arch Pediatr Adolesc Med** 1996 Oct;150(10):1021–6

Absence of negative attitudes toward childbearing among pregnant teenagers. A risk factor for a rapid repeat pregnancy? Stevens–Simon C, et al. **Arch Pediatr Adolesc Med** 1996 Oct;150(10):1037–43

Attitudes of U.S. and Czech/Slovak mental health and health professionals toward five types of sexually explicit materials. Robinson BE, et al. **Arch Sex Behav** 1996 Dec; 25(6):601–28

Sexual activities and attitudes of adolescent Koreans. Youn G. **Arch Sex Behav** 1996 Dec;25(6):629–43

The stigma of mental illness in Asian cultures. Ng CH. **Aust N Z J Psychiatry** 1997 Jun;31(3):382–90

Who works in the sex industry? A profile of female prostitutes in Victoria. Pyett PM, et al. **Aust N Z J Public Health** 1996 Aug;20(4):431–3

A longitudinal study of veterinary students and recent graduates. 2. Views of the veterinary profession. Heath TJ, et al. **Aust Vet J** 1996 Oct;74(4):297–300

A longitudinal study of veterinary students and recent graduates. 3. Perceptions of veterinary education. Heath TJ, et al. **Aust Vet J** 1996 Oct;74(4):301–4

Vulnerability representation: the role of perceived dangerousness, uncontrollability, unpredictability and disgustingness in spider fear. Armfield JM, et al. **Behav Res Ther** 1996 Nov–Dec;34(11–12):899–909

Pessimistic attributional style: is it specific to depression versus anxiety versus negative affect? Luten AG, et al. **Behav Res Ther** 1997 Aug;35(8):703–19

Science and medicine at the millennium. Kornberg A. **Biochem Mol Med** 1997 Aug;61(2):121–6

Facial disfigurement. Counselling is important in healing the whole patient [letter; comment] Edwards D. **BMJ** 1997 Jul 12;315(7100):120. Comment on: BMJ 1997 Apr 5;314(7086):991.

Facial disfigurement. Both counselling for patients and education for the public are necessary [letter; comment] Partridge J. **BMJ** 1997 Jul 12;315(7100):120. Comment on: BMJ 1997 Apr 5;314(7086):991.

Attitudes towards emotional expression and post–traumatic stress in survivors of the Herald of Free Enterprise disaster. Joseph S, et al. **Br J Clin Psychol** 1997 Feb;36 (Pt 1):133–8

The effect of one–session treatment for spider phobia on attentional bias and beliefs. Thorpe SJ, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):225–41

Relations between perceptions of the teaching environment and approaches to teaching. Prosser M, et al. **Br J Educ Psychol** 1997 Mar;67 (Pt 1):25–35

General practitioners' views on the over–the–counter availability of H2–antagonists. Erwin J, et al. **Br J Gen Pract** 1997 Feb;47(415):99–102

Women's views of the place of confinement. Fordham S. **Br J Gen Pract** 1997 Feb;47(415):77–80

Community attitudes to mental illness [see comments] Wolff G, et al. **Br J Psychiatry** 1996 Feb;168(2):183–90. Comment in: Br J Psychiatry 1996 May;168(5):652.

Community knowledge of mental illness and reaction to mentally ill people. Wolff G, et al. **Br J Psychiatry** 1996 Feb;168(2):191–8

Do beliefs about aggressive feelings and actions predict reported levels of aggression? Archer J, et al. **Br J Soc Psychol** 1997 Mar;36 (Pt 1):83–105

The gender gap: differences in political attitudes and social dominance orientation. Pratto F, et al. **Br J Soc Psychol** 1997 Mar;36 (Pt 1):49–68

The evolution of adjustment issues in HIV/AIDS. Kobayashi JS. **Bull Menninger Clin** 1997 Spring;61(2):146–88

Some final responses to Dr. Waugh [letter; comment] Cuddy TJ. **Can Med Assoc J** 1997 Jun 1;156(11):1529. Comment on: Can Med Assoc J 1997 Feb 1;156(3):408.

Abortion and our changing society [see comments] Waugh D. **Can Med Assoc J** 1997 Feb 1;156(3):408. Comment in: Can Med Assoc J 1997 Jun 1;156(11):1529. Comment in: Can Med Assoc J 1997 Jun 1;156(11):1529–30.

Attitudes toward physical discipline as a function of disciplinary history and self–labeling as physically abused. Bower ME, et al. **Child Abuse Negl** 1996 Aug;20(8):689–99

Undergraduate students' perceptions of child sexual abuse: effects of age, sex, and gender–role attitudes. Maynard C, et al. **Child Abuse Negl** 1997 Sep;21(9):833–44

Perceptions of abuse: effects on adult psychological and social adjustment. Varia R, et al. **Child Abuse Negl** 1996 Jun;20(6):511–26

Referring and reporting research participants at risk: views from urban adolescents. Fisher CB, et al. **Child Dev** 1996 Oct;67(5):2086–100

The academic achievement of adolescents from immigrant families: the roles of family background, attitudes, and behavior. Fuligni AJ. **Child Dev** 1997 Apr;68(2):351–63

Children's narrative representations of mothers: their development and associations with child and mother adaptation. Oppenheim D, et al. **Child Dev** 1997 Feb; 68(1):127–38

Quality of care at school–aged child–care programs: regulatable features, observed experiences, child perspectives, and parent perspectives. Rosenthal R, et al. **Child Dev** 1996 Oct;67(5):2434–45

The experience of family foster care in Malawi: a preliminary investigation. Bandawe CR, et al. **Child Welfare** 1997 Jul–Aug;76(4):535–47

The concept of family: perceptions of children in family foster care. Gardner H. **Child Welfare** 1996 Mar–Apr; 75(2):161–82

The adolescents assessment of family functioning. Vidović V, et al. **Coll Antropol** 1997 Jun;21(1):269–76

Eating behaviour, weight status and depressive feelings in female adolescents. Vidović V, et al. **Coll Antropol** 1997 Jun;21(1):277–83

Patients' expectations of an ideal dentist and their views concerning the dentist they visited: do the views conform to the expectations and what determines how well they conform? Lahti S, et al. **Community Dent Oral Epidemiol** 1996 Aug;24(4):240–4

Ideal role behaviours as seen by dentists and patients themselves and by their role partners: do they differ? Lahti S, et al. **Community Dent Oral Epidemiol** 1996 Aug; 24(4):245–8

Beliefs about Norplant implants among low income urban women. Cushman LF, et al. **Contraception** 1996 May; 53(5):285–91

Participants' perceptions of a phase I colon cancer chemoprevention trial. Hudmon KS, et al. **Control Clin Trials** 1996 Dec;17(6):494–508

Ravens, contrapositives, and gene therapy [editorial] Sobel

BE. **Coron Artery Dis** 1995 Oct;6(10):839–40
The mobility experience and neighborhood attachment. Bolan M. **Demography** 1997 May;34(2):225–37
Couple childbearing desires, intentions, and births. Thomson E. **Demography** 1997 Aug;34(3):343–54
The impact of personality and religion on attitude towards substance use among 13–15 year olds. Francis LJ. **Drug Alcohol Depend** 1997 Mar 14;44(2–3):95–103
Quality of life: perception of lung cancer patients. Montazeri A, et al. **Eur J Cancer** 1996 Dec;32A(13):2284–9
Taking charge of remembering: locus of control and older adults' memory for speech. Riggs KM, et al. **Exp Aging Res** 1997 Jul–Sep;23(3):237–56
The role of office-based procedures in family practice residency training. Phelps KA, et al. **Fam Med** 1996 Sep; 28(8):565–9
Old attitudes in a new world [editorial] Saultz JW. **Fam Med** 1996 Nov–Dec;28(10):739–40
Do adolescent pregnancy and childbearing affect younger siblings? East PL. **Fam Plann Perspect** 1996 Jul–Aug; 28(4):148–53
Maternal correlates of adolescent sexual and contraceptive behavior. Jaccard J, et al. **Fam Plann Perspect** 1996 Jul–Aug;28(4):159–65, 185
Eating attitudes and the irritable bowel syndrome. Sullivan G, et al. **Gen Hosp Psychiatry** 1997 Jan;19(1):62–4
The structure of ethnic attitudes: the effects of target group, region, gender, and national identity. Verkuyten M. **Genet Soc Gen Psychol Monogr** 1997 Aug;123(3):261–84
Children's views on aging: their attitudes and values. Newman S, et al. **Gerontologist** 1997 Jun;37(3):412–7
A national assessment of secondary school principals' perceptions of violence in schools. Price JH, et al. **Health Educ Behav** 1997 Apr;24(2):218–29
Prioritising the cardiac surgery waiting list: the angina patient's perspective. Kee F, et al. **Heart** 1997 Apr; 77(4):330–2
Attitudes and motives of semen donors and non-donors. Lui SC, et al. **Hum Reprod** 1996 Sep;11(9):2061–6
Community attitude to divorce in leprosy. Raju MS, et al. **Indian J Lepr** 1995 Oct–Dec;67(4):389–403
Attitude to aging among different groups in Nigeria. Baiyewu O, et al. **Int J Aging Hum Dev** 1997;44(4):283–92
Bulimic psychopathology and attentional biases to ego threats among non-eating-disordered women. Waller G, et al. **Int J Eat Disord** 1996 Sep;20(2):169–76
Women's attitudes towards menopause and hormone replacement therapy. Blumberg G, et al. **Int J Gynaecol Obstet** 1996 Sep;54(3):271–7
Perceptions of coercion in the admission of voluntary and involuntary psychiatric patients. Hoge SK, et al. **Int J Law Psychiatry** 1997 Spring;20(2):167–81
Knowledge about and attitudes toward persons with developmental disabilities: an assessment of Israeli social work students. Duvdevany I, et al. **Int J Rehabil Res** 1995 Dec;18(4):362–7
Attitudes toward disability and beliefs regarding support for a university student with quadriplegia. Gannon PM, et al. **Int J Rehabil Res** 1996 Jun;19(2):163–9
An international validation of the interaction with disabled persons scale. Gething L, et al. **Int J Rehabil Res** 1997 Jun;20(2):149–58
Treatment of traumagenic beliefs among sexually abused girls and their mothers: an evaluation study. Celano M, et al. **J Abnorm Child Psychol** 1996 Feb;24(1):1–17
Cognitive triad: relationship to depressive symptoms, parents' cognitive triad, and perceived parental messages. Stark KD, et al. **J Abnorm Child Psychol** 1996 Oct;24(5):615–31
Perfectionism, perceived weight status, and bulimic symptoms: two studies testing a diathesis-stress model. Joiner TE Jr, et al. **J Abnorm Psychol** 1997 Feb; 106(1):145–53
Adolescents' perceptions of their parents' disclosure to them. Dolgin KG, et al. **J Adolesc** 1997 Aug;20(4):431–41
Daughter and mother report of individual symptoms on the Children's Depression Inventory. Bennett DS, et al. **J Adolesc Health** 1997 Jan;20(1):51–7
Procreative experiences and orientations toward paternity held by incarcerated adolescent males. Nesmith JD, et al. **J Adolesc Health** 1997 Mar;20(3):198–203
A qualitative analysis of student nurses' experiences of mentorship. Cahill HA. **J Adv Nurs** 1996 Oct;24(4):791–9
Undergraduate nursing students' perceptions of their clinical learning environment. Dunn SV, et al. **J Adv Nurs** 1997 Jun;25(6):1299–306
Concerns of nurse educators regarding the implementation of a major curriculum reform. Gwele NS. **J Adv Nurs** 1996 Sep;24(3):607–14
Project 2000 students' perceptions of their training. Parker TJ. **J Adv Nurs** 1996 Oct;24(4):771–8
Do fifth graders' attitudes and intentions toward alcohol use predict seventh-grade use? Webb JA, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1611–7
Following in father's footsteps [editorial] Chambers DW. **J Am Coll Dent** 1996 Spring;63(1):2–4
Perspectives of Latina immigrant women on Proposition 187. Moss N, et al. **J Am Med Womens Assoc** 1996 Aug–Oct; 51(4).161–5
Attitudes toward the unconscious. Beebe J. **J Anal Psychol** 1997 Jan;42(1):3–20; discussion 21–4
Reactions to cognitive ability tests: the relationships between race, test performance, face validity perceptions, and test-taking motivation. Chan D, et al. **J Appl Psychol** 1997 Apr;82(2):300–10
Attitudes of IVF parents regarding the IVF experience and their children. Greenfeld DA, et al. **J Assist Reprod Genet** 1996 Mar;13(3):266–74
A comparative study of the awareness and attitude of HIV/AIDS among students living in India and migrants to the United States. Chakraborty J, et al. **J Assoc Physicians India** 1996 Apr;44(4):237–9
Environment-behavior relations, behavior therapy and the process of persuasion and attitude change. Schauss SL, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):31–40
Predicting perfectionism: applying tests of rigidity. Ferrari JR, et al. **J Clin Psychol** 1997 Jan;53(1):1–6
Optimism, social support, and premenstrual dysphoria. Fontaine KR, et al. **J Clin Psychol** 1997 Apr;53(3):243–7
Attitudes toward speech disorders: sampling the views of Cantonese-speaking Americans. Bebout L, et al. **J Commun Disord** 1997 May–Jun;30(3):205–28; discussion 228–9
Fathers' perceptions of how they were parented. Riesch SK, et al. **J Community Health Nurs** 1996;13(1):13–29
Pros and cons of quitting, self-efficacy, and the stages of change in smoking cessation. Dijkstra A, et al. **J Consult Clin Psychol** 1996 Aug;64(4):758–63
Academic integrity from a student's perspective. Tankersley KC. **J Dent Educ** 1997 Aug;61(8):692–3
The education of depressed primary care patients: what do patients think of interactive booklets and a video? [see comments] Robinson P, et al. **J Fam Pract** 1997 Jun; 44(6):562–71. Comment in: J Fam Pract 1997 Jun;44(6):543–4.
Patients' views about physician participation in assisted suicide and euthanasia. Graber MA, et al. **J Gen Intern Med** 1996 Feb;11(2):71–6
Characteristics of materials distributed by drug companies. An evaluation of appropriateness [see comments] Stryer D, et al. **J Gen Intern Med** 1996 Oct;11(10):575–83 (81 ref.). Comment in: J Gen Intern Med 1996 Oct;11(10):635–6. Comment in: J Gen Intern Med 1996 Oct;11(10):637–9. Comment in: J Gen Intern Med 1996 Oct;11(10):640–1. Comment in: J Gen Intern Med 1996 Oct;11(10):642–4.
Self-report benefits of Tai Chi practice by older adults. Kutner NG, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Sep;52(5):P242–6
The effect of homosexual imagery in advertising on attitude toward the ad. Bhat S, et al. **J Homosex** 1996; 31(1–2):161–76
Assessing homosexual stress. Burke TB. **J Homosex** 1997; 33(2):83–99
Do changes in the stereotypic depiction of a lesbian couple affect heterosexuals' attitudes toward lesbianism? Corley TJ, et al. **J Homosex** 1996;32(2):1–17
An empirical study of the beliefs of psychoanalysts about scientific and clinical dimensions of male homosexuality. Friedman RC, et al. **J Homosex** 1996;32(2):79–89
The impact of "media contact" on attitudes toward gay men. Riggle ED, et al. **J Homosex** 1996;31(3):55–69
Health care professionals' attitudes toward lesbian women and gay men. Schwanberg SL. **J Homosex** 1996;31(3):71–83
Trainee teachers' attitudes to inclusive education for children with Down's syndrome. Wishart JG, et al. **J Intellect Disabil Res** 1996 Feb;40 (Pt 1):56–65
The physicians' recognition and attitude about patient education in practice. Park HS, et al. **J Korean Med Sci** 1996 Oct;11(5):422–8
Parental influence on gender and marital role attitudes: implications for intervention. Snyder DK, et al. **J Marital Fam Ther** 1997 Apr;23(2):191–201
Parental reactions to fetal echocardiography. Björkhem G, et al. **J Matern Fetal Med** 1997 Mar–Apr;6(2):87–92
Attitudes towards bipolar disorder and predictive genetic testing among patients and providers. Smith LB, et al. **J Med Genet** 1996 Jul;33(7):544–9
Perceived level and sources of stress in university professional schools. Beck DL, et al. **J Nurs Educ** 1997 Apr;36(4):180–6
Faculty commitment: retaining minority nursing students in majority institutions. Campbell AR, et al. **J Nurs Educ** 1996 Oct;35(7):298–303 (28 ref.)
Baccalaureate student gerontological nursing experiences: raising consciousness levels and affecting attitudes. Fox SD, et al. **J Nurs Educ** 1996 Nov;35(8):348–55
Undergraduates' perceptions of their psychiatric practicum: positive and negative factors in inpatient and community experience. Perese EF. **J Nurs Educ** 1996 Sep;35(6):281–5
Parental attitudes toward obstetric ultrasound examination. Zlotogorski Z, et al. **J Obstet Gynaecol Res** 1997 Feb; 23(1):25–8
Employee attitudes toward work-site alcohol testing. Howland J, et al. **J Occup Environ Med** 1996 Oct; 38(10):1041–6
Parenting attitudes and behaviors of low-income single mothers with young children. Sachs B, et al. **J Pediatr Nurs** 1997 Apr;12(2):67–73
Children's attitudes and behavioral intentions toward a peer with Tourette syndrome. Friedrich S, et al. **J Pediatr Psychol** 1996 Jun;21(3):307–19
Empathy and attitudes: can feeling for a member of a stigmatized group improve feelings toward the group? Batson CD, et al. **J Pers Soc Psychol** 1997 Jan;72(1):105–18
Vested interest, symbolic politics, and attitude-behavior consistency. Crano WD. **J Pers Soc Psychol** 1997 Mar; 72(3):485–91
Vested interest and symbolic politics—observations and recommendations: reply To Sears (1997). Crano WD. **J Pers Soc Psychol** 1997 Mar;72(3):497–500
Reactions to penalties for an offense in relation to authoritarianism, values, perceived responsibility, perceived seriousness, and deservingness. Feather NT. **J Pers Soc Psychol** 1996 Sep;71(3):571–87
Children's normative beliefs about aggression and aggressive behavior. Huesmann LR, et al. **J Pers Soc Psychol** 1997 Feb;72(2):408–19
Do we know how much people like one another? Kenny DA, et al. **J Pers Soc Psychol** 1996 Nov;71(5):928–36
Memory for and experience of differential competitive behavior of individuals and groups. Pemberton MB, et al. **J Pers Soc Psychol** 1996 Nov;71(5):953–66
Considering the best choice: effects of the salience and accessibility of alternatives on attitude-decision consistency. Posavac SS, et al. **J Pers Soc Psychol** 1997 Feb;72(2):253–61
The gradual threshold model of ambivalence: relating the positive and negative bases of attitudes to subjective ambivalence. Priester JR, et al. **J Pers Soc Psychol** 1996 Sep;71(3):431–49
The impact of self-interest on attitudes—a symbolic politics perspective on differences between survey and experimental findings: comment on Crano (1997). Sears DO. **J Pers Soc Psychol** 1997 Mar;72(3):492–6
A guide to constructs of control. Skinner EA. **J Pers Soc Psychol** 1996 Sep;71(3):549–70 (120 ref.)
Accessible attitudes influence categorization of multiply categorizable objects. Smith ER, et al. **J Pers Soc Psychol** 1996 Nov;71(5):888–98
Self-definition, defensive processing, and influence: the normative impact of majority and minority groups. Wood W, et al. **J Pers Soc Psychol** 1996 Dec;71(6):1181–93
The relationship between age and gender in workers' attitudes toward sexual harassment. Ford CA, et al. **J Psychol** 1996 Nov;130(6):627–33
Children's attitudes toward violence on television. Hough KJ, et al. **J Psychol** 1997 Jul;131(4):411–5
The structure of attitudes toward persons who are deaf: emotions, values, and stereotypes. Kiger G. **J Psychol** 1997 Sep;131(5):554–60
A comparison of the effects of sacred and secular music on elderly people. Lowis MJ, et al. **J Psychol** 1997 Jan; 131(1):45–55
What men say about pregnancy, birth and parenthood. Chalmers B, et al. **J Psychosom Obstet Gynaecol** 1996 Mar; 17(1):47–52
Determinants of physician confidence in the primary care management of musculoskeletal disorders [see comments] Glazier RH, et al. **J Rheumatol** 1996 Feb;23(2):351–6. Comment in: J Rheumatol 1996 Feb;23(2):205–7.
Preservice elementary teacher's attitudes toward gay and lesbian parenting. Maney DW, et al. **J Sch Health** 1997 Aug;67(6):236–41
Teachers' beliefs concerning teaching about testicular cancer and testicular self-examination. Wohl RE, et al. **J Sch Health** 1997 Mar;67(3):106–11
Therapeutic implications of conservative clergy views on sexuality: an empirical analysis. Kennedy P, et al. **J Sex Marital Ther** 1997 Summer;23(2):140–53
Sexual behaviors and attitudes of geriatric residents in long-term care facilities. Spector IP, et al. **J Sex Marital Ther** 1996 Winter;22(4):235–46
Gender differences in Arab students' attitudes toward Canadian society and second language learning. Abu-Rabia S. **J Soc Psychol** 1997 Feb;137(1):125–8
Gender and beliefs about work force discrimination in the United States and Australia. Browne BA. **J Soc Psychol** 1997 Feb;137(1):107–16
Ratings of interpersonal conduct in small groups by aggregated peers and self: replicated factor analyses. Hurley JR. **J Soc Psychol** 1996 Oct;136(5):597–611
The effects of two types of exposure on attitudes toward aspects of juvenile delinquency. Leunes A, et al. **J Soc Psychol** 1996 Dec;136(6):699–708
The perception of an out-group after provocation by one of its members. Ruscher JB, et al. **J Soc Psychol** 1997 Feb; 137(1):5–9
Church attendance, denomination, and suicide ideology. Siegrist M. **J Soc Psychol** 1996 Oct;136(5):559–66
The effect of perceived cooperation on personal space requirements. Sinha SP, et al. **J Soc Psychol** 1996 Oct; 136(5):655–7
Doping and high-level endurance walkers. Knowledge and representation of a prohibited practice. Laure P, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):228–31
Demographic and psychosocial risk for alcohol use: ethnic differences. Keefe K, et al. **J Stud Alcohol** 1996 Sep; 57(5):521–30
Male adolescents' reactions to TV beer advertisements: the effects of sports content and programming context. Slater MD, et al. **J Stud Alcohol** 1996 Jul;57(4):425–33
Willingness of female smokers to tolerate postcessation weight gain. Pomerleau CS, et al. **J Subst Abuse** 1996; 8(3):371–8
Is big still beautiful in Polynesia? Ben-Tovim DI. **Lancet**

1996 Oct 19;348(9034):1047–8
The believability of hearsay testimony in a child sexual assault trial. Golding JM, et al. **Law Hum Behav** 1997 Jun; 21(3):299–325
Perceptions of sexual harassment: the effects of gender, legal standard, and ambivalent sexism. Wiener RL, et al. **Law Hum Behav** 1997 Feb;21(1):71–93
Imagining the citizen, imagining the enemy. Shay J. **Lit Med** 1996 Fall;15(2):221–3
A study of the effects of patient anxiety, perceptions and equipment on motion artifacts in magnetic resonance imaging. Dantendorfer K, et al. **Magn Reson Imaging** 1997; 15(3):301–6
Sociological and behavioural characteristics of perimenopausal women with an express attitude to hormone substitution therapy. Jensen LB, et al **Maturitas** 1996 Feb;23(1):73–83
Attitude and disposition: do they make a difference in cancer survival? Creagan ET. **Mayo Clin Proc** 1997 Feb; 72(2):160–4 (24 ref.)
Toward a (Dys)functional anthropology of drinking: ambivalence and the American Indian experience with alcohol. Spicer P. **Med Anthropol Q** 1997 Sep;11(3):306–23
Medical students' perceptions of medical malpractice. Annandale E, et al. **Med Educ** 1996 Jul;30(4):253–8
Dental and life science students: a comparison of approaches to study and course perceptions. Davis JE, et al. **Med Educ** 1996 Nov;30(6):453–8
Gender in medicine: the views of first and fifth year medical students. Field D, et al. **Med Educ** 1996 Jul;30(4):246–52
Learning preference and personality type: their association in paediatric residents. Greenberg LW, et al. **Med Educ** 1996 Jul;30(4):307–11
Tutoring in problem-based learning: perceptions of teachers and students. Kaufman DM, et al. **Med Educ** 1996 Sep; 30(5):371–7
Audit in general practice: educating medical students. Morrison JM, et al. **Med Educ** 1997 Mar;31(2):128–31
Training experiences immediately after medical school. Roche AM, et al. **Med Educ** 1997 Jan;31(1):9–16
Comparison of factors influencing mothers' perceptions about the futures of their adolescent children with and without disabilities. Lehmann JP, et al. **Ment Retard** 1996 Feb; 34(1):27–38
Family perspectives on problem behavior. Turnbull AP, et al. **Ment Retard** 1996 Oct;34(5):280–93
Child care needs, arrangements, and satisfaction of mothers of children with developmental disabilities. Warfield ME, et al. **Ment Retard** 1996 Oct;34(5):294–302
The exceptional family member program: perceptions of active duty enrollees. Watanabe HK, et al. **Mil Med** 1995 Dec;160(12):639–43
Winning the hearts and minds of dental students. Meeske J. **N Y State Dent J** 1996 Mar;62(3):60–1
Baby feeding: the thoughts behind the statistics. Basire K, et al. **N Z Med J** 1997 May 23;110(1044):184–7
Micro- and macrosocial conditions of adolescents' aggressiveness and antiforeigner attitudes. Klein-Allermann E, et al. **New Dir Child Dev** 1995 Winter; (70):71–83
Prejudice toward fat people: the development and validation of the antifat attitudes test. Lewis RJ, et al. **Obes Res** 1997 Jul;5(4):297–307
Parental perceptions, expectations and preferences for the postanaesthetic recovery of children. Sikich N, et al. **Paediatr Anaesth** 1997;7(2):139–42
Mothers' milk enhances the acceptance of cereal during weaning. Mennella JA, et al. **Pediatr Res** 1997 Feb; 41(2):188–92
Development of an attitude scale to measure attitudes toward humans' use of nonhuman animals. Armstrong JB, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):1003–10
The slope method for prescribing exercise with ratings of perceived exertion (RPE). Dunbar CC, et al. **Percept Mot Skills** 1996 Aug;83(1):91–7
Attitudes toward euthanasia. Gilman PA, et al. **Percept Mot Skills** 1997 Feb;84(1):317–8
Attitude and enduring involvement of older adults in structured programs of physical activity. Gravelle F, et al. **Percept Mot Skills** 1997 Aug;85(1):67–71
Ratings of perceived exertion by a group of women: does Type A behavior act a modifier? Hassmén P, et al. **Percept Mot Skills** 1996 Oct;83(2):675–86
Goal orientations and perceived purposes of training among elite athletes. Ommundsen Y, et al. **Percept Mot Skills** 1996 Oct;83(2):463–71
Validity of the Borg perceived exertion scale for use in semirecumbent ergometry during immersion in water. Robertson R, et al. **Percept Mot Skills** 1996 Aug;83(1):3–13
Beliefs in parapsychological events or experiences among college students in a course in experimental parapsychology. Vitulli WF. **Percept Mot Skills** 1997 Aug; 85(1):273–4
Issues in development of a protocol to evaluate children's reasoning about ability and effort in sport. Whitehead J, et al. **Percept Mot Skills** 1996 Oct;83(2):355–64
Smoking behavior and attitude toward smoking regulations and passive smoking in the workplace. A study among 974 employees in the German metal industry. Brenner H, et al. **Prev Med** 1997 Jan–Feb;26(1):138–43
Saying "no" to environmental tobacco smoke: determinants of assertiveness among nonsmoking employees. Willemsen MC, et al. **Prev Med** 1996 Sep–Oct;25(5):575–82
A survey of preferred terms for users of mental health services. Mueser KT, et al. **Psychiatr Serv** 1996 Jul; 47(7):760–1
Attitudes of medical students towards persons with mental disorders: a comparative study between Japan and Thailand. Yamamoto K, et al. **Psychiatry Clin Neurosci** 1996 Aug;50(4):171–80
The Family Attitude Scale: reliability and validity of a new scale for measuring the emotional climate of families. Kavanagh DJ, et al. **Psychiatry Res** 1997 May 30; 70(3):185–95
Attitudes toward older adults reported by young adults: variation based on attitudinal task and attribute categories. Slotterback CS, et al. **Psychol Aging** 1996 Dec;11(4):563–71
An integrative framework for explaining reactions to decisions: interactive effects of outcomes and procedures. Brockner J, et al. **Psychol Bull** 1996 Sep;120(2):189–208 (73 ref.)
Gender differences in family attitudes about schizophrenia. Davis JA, et al. **Psychol Med** 1996 Jul;26(4):689–96
Managing students with behavior disorders: perceived efficacy of interventions. Abelson AG. **Psychol Rep** 1997 Jun;80(3 Pt 2):1167–70
Reliability of retrospective reports of perceived maternal acceptance–rejection in childhood. Cournoyer DE, et al. **Psychol Rep** 1996 Feb;78(1):147–50
Sources used by education students to conceptualize learning disabilities. Flynn M, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):936–8
The Kogan Attitudes Toward Old People scale: is it time for a revision? Hilt ML. **Psychol Rep** 1997 Jun;80(3 Pt 2):1372–4
Attribution of responsibility for alcohol-related offenses. Kelly KT, et al. **Psychol Rep** 1997 Jun;80(3 Pt 2):1159–65
Mathematics achievement and attitudes of senior secondary-school students in Transkei, South Africa. Kulubya MM, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):915–9
Picnics, flowers, and moonlight strolls: an exploration of routine love behaviors. Lemieux R. **Psychol Rep** 1996 Feb; 78(1):91–8
Social support desired vs received by high school students in or not in a delinquency prevention program. Lewandowski LM, et al. **Psychol Rep** 1996 Feb;78(1):111–4
College students' attitudes toward finding a mate to escape depression: sex differences. McNeill KF, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):745–6
Viewers' ratings of violence presented in justified and unjustified contexts. Moore SR, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):931–5
Political identification and perceptions of homelessness: attributed causality and attitudes on public policy. Pellegrini RJ, et al. **Psychol Rep** 1997 Jun;80(3 Pt 2):1139–48
Exploring the relation between personality and the appreciation of rock music. Robinson TO, et al. **Psychol Rep** 1996 Feb;78(1):259–69
Covariation bias and paranormal belief. Schienle A, et al. **Psychol Rep** 1996 Feb;78(1):291–305
Relationship of mothers' perceptions and behaviors to the duration of breastfeeding. Vandiver TA. **Psychol Rep** 1997 Jun;80(3 Pt 2):1375–84
Categorizing coping responses for envy: a multidimensional analysis of workplace perceptions. Vecchio RP. **Psychol Rep** 1997 Aug;81(1):137–8
An animal rights attitude survey of undergraduate psychology students. Vigorito M. **Psychol Rep** 1996 Aug; 79(1):131–42
Elderly persons' perceptions of humor as a gender-linked characteristic. Vitulli WF, et al. **Psychol Rep** 1996 Feb; 78(1):83–9
Black south African adolescents' attitudes about studying. Watson MB, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):861–2
Making attributions to the physician following closing arguments of a simulated medical malpractice suit: jurors' sex, health locus of control, and locus of authority. Worthington DL. **Psychol Rep** 1997 Jun;80(3 Pt 1):943–6
Eating habits and attitudes in the postpartum period. Stein A, et al. **Psychosom Med** 1996 Jul–Aug;58(4):321–5
Social networks of women caregivers. Fudge H, et al. **Public Health Nurs** 1997 Feb;14(1):20–7
Students' expectations of clinical teachers. Daniels M, et al. **Radiol Technol** 1996 Sep–Oct;68(1):89–93 (10 ref.)
Student interest in activities in a secondary physical education curriculum: an analysis of student subjectivity. Chen A. **Res Q Exerc Sport** 1996 Dec;67(4):424–32
Age and gender differences in perceived accident likelihood and driver competences. Glendon AI, et al. **Risk Anal** 1996 Dec;16(6):755–62
Perceived control: a comparison of women with fibromyalgia, rheumatoid arthritis, and systemic lupus erythematosus using a Swedish version of the Rheumatology Attitudes Index. Burckhardt CS, et al. **Scand J Rheumatol** 1996;25(5):300–6
Negative labelling of individuals with first episode schizophrenia: the effect of premorbid functioning. Bean G, et al. **Schizophr Res** 1996 Nov 15;22(2):111–8
Teenage sexual attitudes in China. Kaufman G, et al. **Soc Biol** 1996 Fall–Winter;43(3–4):141–54
Perceived male sexual needs and male sexual behaviour in southwest Nigeria. Orubuloye IO, et al. **Soc Sci Med** 1997 Apr;44(8):1195–207
Perceptions of school violence as a problem and reports of violent events: a national survey of school social workers. Astor RA, et al. **Soc Work** 1997 Jan;42(1):55–68
Negative outcomes of interethnic adoption of Mexican American children. Bausch RS, et al. **Soc Work** 1997 Mar; 42(2):136–43
Gender differences in attitudes toward alcohol, tobacco, and other drugs. Kauffman SE, et al. **Soc Work** 1997 May; 42(3):231–41 (67 ref.)
Why is MetLife interested in violence issues? [comment] Kamen HP. **Stat Bull Metrop Insur Co** 1996 Jul–Sep; 77(3):11. Comment on: Stat Bull Metrop Insur Co 1996 Jul–Sep;77(3):2–10.
Teenagers' view of violence and social tension in U.S. public schools [see comments] Mushinski M. **Stat Bull Metrop Insur Co** 1996 Jul–Sep;77(3):2–10. Comment in: Stat Bull Metrop Insur Co 1996 Jul–Sep;77(3):11.
Attitudes and beliefs of staff working in methadone maintenance clinics. Caplehorn JR, et al. **Subst Use Misuse** 1996 Mar;31(4):437–52
The effects of interview mode on smoking attitudes and behavior: self-report among female Latino adolescents. Kaplan CP, et al. **Subst Use Misuse** 1996 Jun;31(8):947–63
Differential perceptions of drinkers of alcoholic beverages by Mexican-Americans and non-Hispanic whites. Marín G, et al. **Subst Use Misuse** 1997 Aug;32(10):1369–84
Smoking-related knowledge and attitudes of senior Australian medical students. Roche AM, et al. **Tob Control** 1996 Winter;5(4):271–9
Sons of men with prostate cancer: their attitudes regarding possible inheritance of prostate cancer, screening, and genetic testing. Bratt O, et al. **Urology** 1997 Sep;50(3):360–5
Circumcision in infancy [letter; comment] Fleiss PM, et al. **Urology** 1997 Jul;50(1):161. Comment on: Urology 1995 Dec;46(6):769–70.
Perspectives on prostate cancer treatment: awareness, attitudes, and relationships. Porterfield HA. **Urology** 1997 Mar;49(3A Suppl):102–3
Self-reported sexual interest in children: sex differences and psychosocial correlates in a university sample. Smiljanich K, et al. **Violence Vict** 1996 Spring;11(1):39–50
Subjective responses to light sources of different colour temperatures and illuminances. Schröder I. **Z Morphol Anthropol** 1996 Sep;81(2):235–51
[Patients' attitudes towards and satisfaction with interns in general practice. Practicing interns and patient satisfaction] Fuglsang H, et al. **Ugeskr Laeger** 1996 Oct 7; 158(41):5768–72 (Eng. Abstr.) **(Dan)**
[Attitude of Swiss Army recruits from Tessin to pain and euthanasia (1992 and 1995)] Malacrida R, et al. **Schweiz Med Wochenschr** 1996 Dec 7;126(49):2149–51 (Eng. Abstr.) **(Fre)**
[Illegal drugs: attitude of parents of adolescents] Efionayi-Mäder D. **Soz Praventivmed** 1996;41(6):366–72 (Eng. Abstr.) **(Fre)**
[Are negative cognitions symptoms of depression or also an expression of personality traits?] Leucht S, et al. **Nervenarzt** 1997 Jul;68(7):563–8 (Eng. Abstr.) **(Ger)**
[The youth phase from the viewpoint of children and adolescents: crisis or fun?] Endepohls M. **Prax Kinderpsychol Kinderpsychiatr** 1995 Dec; 44(10):377–82 (Eng. Abstr.) **(Ger)**
[Aging and technology] Rudinger G. **Z Gerontol Geriatr** 1996 Jul–Aug;29(4):246–56 (49 ref.) (Eng. Abstr.) **(Ger)**
[Factors related to attitudes of outpatients toward "Iyaku-Bungyo" (the separation of dispensing from medical practice)] Shima M, et al. **Nippon Koshu Eisei Zasshi** 1997 Jan;44(1):47–54 (Eng. Abstr.) **(Jpn)**
[The interactive effect of initial position and threat to freedom on psychological reactance] Imajo S. **Shinrigaku Kenkyu** 1996 Feb;66(6):431–6 (Eng. Abstr.) **(Jpn)**
[Opinions of chief physicians on the health care reform in the Novosibirsk oblast] Filatov VB. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):22–4 **(Rus)**
[The attitude of health personnel and population toward the economic reform in public health system. (The results of a survey in Chelyabinsk)] Rozenfeld LG, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):19–25 (Eng. Abstr.) **(Rus)**
[Characteristics of knowledge and attitude to drugs and drug addiction in a population of addicted and non-addicted adolescents] Dukanović B. **Med Arh** 1996;50(1–2):41–3 (Eng. Abstr.) **(Scr)**
[Prevalence of tobacco and alcohol consumption, attitudes and knowledge in high school students of the province of Tarragona (Spain)] Pérez Ollé R, et al. **An Esp Pediatr** 1996 Dec;45(6):583–90 (Eng. Abstr.) **(Spa)**
[Smoking. Prevalence and attitudes among health science students] Henríquez Sánchez P, et al. **Aten Primaria** 1996 Nov 15;18(8):436–41 (Eng. Abstr.) **(Spa)**
[Cognitive reconceptualization in the perception of sex activity in the aged: structural neoformation of attitudes to sexuality in old age] Nazario Serrano JA, et al. **Bol Asoc Med P R** 1996 Oct–Dec;88(10–12):94–8 **(Spa)**

ETHNOLOGY

Suicide-related crimes in contemporary European criminal laws. Mäkinen IH. **Crisis** 1997;18(1):35–47
Respect redefined: focus group insights from Singapore.

Mehta K. **Int J Aging Hum Dev** 1997;44(3):205–19
Longitudinal stability and predictability of sexual perceptions, intentions, and behaviors among early adolescent African–Americans. Stanton BF, et al. **J Adolesc Health** 1996 Jan;18(1):10–9
Prediction of suicide intent in aboriginal and non–aboriginal adolescent inpatients: a research note. Enns MW, et al. **Suicide Life Threat Behav** 1997 Summer;27(2):218–24

ATTITUDE OF HEALTH PERSONNEL

Virtue in emergency medicine. SAEM Ethics Committee. Acad **Emerg Med** 1996 Oct;3(10):961–6
Life or death: physician–assisted suicide and emergency medicine [editorial; comment] Adams JG. **Acad Emerg Med** 1996 Oct;3(10):909–10. Comment on: Acad Emerg Med 1996 Oct;3(10):938–45.
Oregon emergency physicians' experiences with, attitudes toward, and concerns about physician–assisted suicide [see comments] Schmidt TA, et al. **Acad Emerg Med** 1996 Oct; 3(10):938–45. Comment in: Acad Emerg Med 1996 Oct;3(10):909–10.
Morningness–eveningness preferences of emergency medicine residents are skewed toward eveningness. Steele MT, et al. **Acad Emerg Med** 1997 Jul;4(7):699–705
Three medical schools' responses to the HIV/AIDS epidemic and the effect on students' knowledge and attitudes. Anderson DG, et al. **Acad Med** 1997 Feb;72(2):144–6
Perceptions of teaching behaviors by primary care and non–primary care residents. Blount BW, et al. **Acad Med** 1996 Nov;71(11):1247–9
Reassessing medical students' willingness to treat HIV–infected patients. Carter D, et al. **Acad Med** 1996 Nov;71(11):1250–2
Barriers to physician identification and treatment of family violence: lessons from five communities. Cohen S, et al. **Acad Med** 1997 Jan;72(1 Suppl):S19–25
Physicians' attitudes toward using patient reports to assess quality of care. Covinsky KE, et al. **Acad Med** 1996 Dec; 71(12):1353–6
A longitudinal study of substance use and abuse in a single class of medical students. Croen LG, et al. **Acad Med** 1997 May;72(5):376–81
Using follow–up support with grand rounds CME in community hospitals. Dietrich AJ, et al. **Acad Med** 1997 May;72(5):391–3
Factors associated with family physicians' involvement in research in Israel. Giveon S, et al. **Acad Med** 1997 May; 72(5):388–90
Importance of the perspective of residents in defining and maintaining quality in GME. Jones DR, et al. **Acad Med** 1996 Aug;71(8):820–2
The effects of precepting on and the support desired by community–based preceptors in Iowa. Levy BT, et al. **Acad Med** 1997 May;72(5):382–4
Faculty perspectives on residency site selection [letter] Lynch DC, et al. **Acad Med** 1996 Oct;71(10):1026–7
Assessing residents' readiness for working in a managed care environment. Mainous AG 3rd, et al. **Acad Med** 1997 May; 72(5):385–7
When to recommend compulsory versus optional CME programs? A study to establish criteria. Miller F, et al. **Acad Med** 1997 Sep;72(9):760–4
Primary care physicians' recognition of and attitudes toward domestic violence [see comments] Reid SA, et al. **Acad Med** 1997 Jan;72(1):51–3. Comment in: Acad Med 1997 May;72(5):315.
Residents' ethical disagreements with attending physicians: an unrecognized problem. Shreves JG, et al. **Acad Med** 1996 Oct;71(10):1103–5
The natural history of cynicism in physicians. Testerman JK, et al. **Acad Med** 1996 Oct;71(10 Suppl):S43–5
Age and life–sustaining treatment. Attitudes of intensive care unit professionals. Melltorp G, et al. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 1):904–8
A resident's experience and suggestion. Cabiol J. **Acta Neurochir Suppl (Wien)** 1997;69:75–8
Management of chronic orofacial pain: attitudes among patients and dentists in a Swedish county. Dahlström L, et al. **Acta Odontol Scand** 1997 Jun;55(3):181–5
Bilateral simultaneous trabeculectomy. A review of outcome and a survey of ophthalmologists' attitudes [see comments] Thompson SM, et al. **Acta Ophthalmol Scand** 1995 Dec; 73(6):543–6. Comment in: Acta Ophthalmol Scand 1995 Dec;73(6):542. Comment in: Acta Ophthalmol Scand 1996 Aug;74(4):415.
Practices and attitudes among Swedish psychiatrists regarding the ethics of compulsory treatment. Kullgren G, et al. **Acta Psychiatr Scand** 1996 May;93(5):389–96
Attitudes of psychiatric nursing personnel towards patients who have attempted suicide. Samuelsson M, et al. **Acta Psychiatr Scand** 1997 Mar;95(3):222–30
A survey of hospital staff attitudes toward ethically problematic relationships with patients. Elliott RL, et al. **Adm Policy Ment Health** 1997 May;24(5):443–9
Prioritizing performance measures for geriatric medical services: what do the purchasers and providers think? Roberts H, et al. **Age Ageing** 1996 Jul;25(4):326–8
Effect of didactic teaching and experiential learning on nursing students' AIDS–related knowledge and attitudes. Stiernborg M, et al. **AIDS Care** 1996 Oct;8(5):601–8
Nurses' intentions to provide home care: the impact of AIDS and homosexuality. Vermette L, et al. **AIDS Care** 1996 Aug;8(4):479–88
The transition from underground to legal syringe exchange: the New York City experience. Kochems LM, et al. **AIDS Educ Prev** 1996 Dec;8(6):471–89
Differences between Asian–American and white American dentists in attitudes toward treatment of HIV–positive patients. Raphael KG, et al. **AIDS Educ Prev** 1996 Apr; 8(2):155–64
Re: Direct disclosure by radiologists of imaging findings to patients [letter; comment] Gelfand DW. **AJR Am J Roentgenol** 1997 May;168(5):1385–6. Comment on: AJR Am J Roentgenol 1996 Nov;167(5):1091–3.
Opinions about mammographic double reading [letter; comment] Hall FM. **AJR Am J Roentgenol** 1997 Mar; 168(3):846. Comment on: AJR Am J Roentgenol 1996 Aug;167(2):377–9.
Direct disclosure by radiologists of imaging findings to patients: a survey of radiologists and medical staff members [see comments] Schreiber MH. **AJR Am J Roentgenol** 1996 Nov;167(5):1091–3. Comment in: AJR Am J Roentgenol 1997 May;168(5):1385–6.
Re: Physicians' opinions on the delivery of mammographic screening services [letter; comment] Weg N. **AJR Am J Roentgenol** 1997 Aug;169(2):596–7. Comment on: AJR Am J Roentgenol 1996 Aug;167(2):377–9.
Tobacco control and the American Medical Association. Houston TP. **Alaska Med** 1996 Jan–Mar;38(1):49–50
What is adolescent alcohol misuse in the United States according to the experts? Hays RD, et al. **Alcohol Alcohol** 1996 May;31(3):297–303
Parenteral thiamine and Wernicke's encephalopathy: the balance of risks and perception of concern. Thomson AD, et al. **Alcohol Alcohol** 1997 May–Jun;32(3):207–9
Public release of cardiac surgery outcomes data in New York: what do New York state cardiologists think of it? Hannan EL, et al. **Am Heart J** 1997 Jul;134(1):55–61
Importance of diet and sex in prevention of coronary artery disease, cancer, osteoporosis, and overweight or underweight: a study of attitudes and practices of Danish primary care physicians. Hølund U, et al. **Am J Clin Nutr** 1997 Jun;65(6 Suppl):2004S–2006S
Stress and distress in pediatric nurses: lessons from Baby K. Perkin RM, et al. **Am J Crit Care** 1997 May;6(3):225–32
Assisted suicide: clinical realities and ethical challenges. Scanlon C, et al. **Am J Crit Care** 1996 Nov;5(6):397–403; quiz 404–5
Current practices regarding visitation policies in critical care units. Simon SK, et al. **Am J Crit Care** 1997 May;6(3):210–7
That "admitting– you're wrong stuff" [editorial] LeBoit PE. **Am J Dermatopathol** 1997 Jun;19(3):205
Attitudes and expectations of 1995 gastroenterology graduates about gastroenterology [see comments] McCashland TM, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2091–5. Comment in: Am J Gastroenterol 1996 Oct;91(10):2070–2.
Gastroenterology and hepatology fellowships: are we meeting the needs of our trainees? [editorial; comment] Rose S. **Am J Gastroenterol** 1996 Oct;91(10):2070–2. Comment on: Am J Gastroenterol 1996 Oct;91(10):2091–5.
New York State physicians look unfavorably on expanded role for community pharmacists [news] **Am J Health Syst Pharm** 1996 Sep 1;53(17):2004, 2008
Living kidney donation: a survey of professional attitudes and practices. Beasley CL, et al. **Am J Kidney Dis** 1997 Oct;30(4):549–57
My hope for medicine [editorial] Bone RC. **Am J Med** 1997 Mar;102(3):308–9
The opinion of current and recent internal medicine residents regarding a fourth year of training and the future of general internal medicine. American College of Physicians National Council of Associates [see comments] Salerno SM, et al. **Am J Med** 1997 Feb;102(2):143–6. Comment in: Am J Med 1997 Feb;102(2):141–2.
Changing clinicians' behaviors in an academic medical center: does institutional commitment to total quality management matter? Wyszewianski L, et al. **Am J Med Qual** 1997 Spring;12(1):3–10
Telephone medical care administered by internal medicine residents: concerns of program directors and implications for residency training. Cykert S, et al. **Am J Med Sci** 1997 Sep;314(3):198–202
Survey of functional assessment procedures used with individuals who display mental retardation and severe problem behaviors. Desrochers MN, et al. **Am J Ment Retard** 1997 Mar;101(5):535–46
RN support seen for assisted suicide [news] **Am J Nurs** 1996 Sep;96(9):12
Primary care by obstetricians and gynecologists: attitudes of the members of The South Atlantic Association of Obstetricians and Gynecologists. Higgins RV, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):311–7; discussion 317–8
A model of the nature of family–therapist relationships: implications for education. Brown SM, et al. **Am J Occup Ther** 1997 Jul–Aug;51(7):597–603
Interest among occupational therapy managers in measuring workload for case costing. Cockerill R, et al. **Am J Occup Ther** 1996 Jun;50(6):447–51
Therapists' perceptions of pediatric occupational therapy interventions in self–care. Swart SK, et al. **Am J Occup Ther** 1997 Apr;51(4):289–96
Perceived orthodontist behaviors that predict patient satisfaction, orthodontist–patient relationship, and patient adherence in orthodontic treatment. Sinha PK, et al. **Am J Orthod Dentofacial Orthop** 1996 Oct;110(4):370–7
The next generation of research: views of a sibling–psychiatrist–researcher. Dixon L. **Am J Orthopsychiatry** 1997 Apr;67(2):242–8
Effects of legally mandated child–abuse reports on the therapeutic relationship: a survey of psychotherapists. Steinberg KL, et al. **Am J Orthopsychiatry** 1997 Jan; 67(1):112–22
Medical students' smoking history and their preventive pulmonary attitudes [letter] Frye AW. **Am J Prev Med** 1996 Jan–Feb;12(1):4
Awareness of consensus preventive medicine practice guidelines among primary care physicians. Meyers DG, et al. **Am J Prev Med** 1997 Jan–Feb;13(1):45–50
Barriers to measles and pertussis immunization: the knowledge and attitudes of Pennsylvania primary care physicians. Zimmerman RK, et al. **Am J Prev Med** 1997 Mar–Apr;13(2):89–97
Attitudes of Oregon psychiatrists toward physician–assisted suicide. Ganzini L, et al. **Am J Psychiatry** 1996 Nov; 153(11):1469–75
Blood lead testing by pediatricians: practice, attitudes, and demographics. Ferguson SC, et al. **Am J Public Health** 1997 Aug;87(8):1349–51
Is there a role for immunotherapy in the treatment of asthma? Yes [editorial] Norman PS. **Am J Respir Crit Care Med** 1996 Nov;154(5):1225–6
Practicing primary care physicians' perspectives on the junior surgical clerkship. Spratt JS Jr, et al. **Am J Surg** 1997 Mar; 173(3):231–3
Guidelines and cardiac anaesthetists. Not in my back yard. Alston RP. **Anaesthesia** 1997 Apr;52(4):328–31
Attitudes of consultant anaesthetists to the Calman proposals: a questionnaire survey [see comments] Dempsey GA, et al. **Anaesthesia** 1996 Oct;51(10):975–7. Comment in: Anaesthesia 1997 Feb;52(2):181–2.
The effect of the National Confidential Enquiry into Perioperative Deaths on clinical practice. Report of a postal survey of a sample of consultant anaesthetists. Derrington MC, et al. **Anaesthesia** 1997 Jan;52(1):3–8
Anaesthetists and the Calman proposals [letter; comment] Haldane G, et al. **Anaesthesia** 1997 Feb;52(2):181–2. Comment on: Anaesthesia 1996 Oct;51(10):975–7.
Music in theatre: not so harmonious. A survey of attitudes to music played in the operating theatre. Hawksworth C, et al. **Anaesthesia** 1997 Jan;52(1):79–83
Low–dose aspirin and intracranial surgery. A survey of the opinions of consultant neuroanaesthetists in the UK. James DN, et al. **Anaesthesia** 1997 Feb;52(2):169–72
Paediatric anaesthesia––who should do it? The view from the specialist hospital [editorial] McNicol R. **Anaesthesia** 1997 Jun;52(6):513–5
Paediatric anaesthesia––who should do it? The view from the district general hospital [editorial] Rollin AM. **Anaesthesia** 1997 Jun;52(6):515–6
Attitudes toward the use of a metal detector in an urban emergency department. Meyer T, et al. **Ann Emerg Med** 1997 May;29(5):621–4
Longitudinal study of emergency physicians by the American Board of Emergency Medicine: 1995 interim survey results. Rund DA, et al. **Ann Emerg Med** 1997 May;29(5):617–20
Health promotion attitudes, practices and obstacles of Italian physicians with their patients. Nicolosi A, et al. **Ann Ig** 1996 Nov–Dec;8(6):601–9
Physicians' attitudes about patients in the persistent vegetative state [letter; comment] Gillick MR. **Ann Intern Med** 1997 Jan 1;126(1):89–90. Comment on: Ann Intern Med 1996 Jul 15;125(2):104–10.
Physicians' attitudes about patients in the persistent vegetative state [letter; comment] Stead WW. **Ann Intern Med** 1997 Jan 1;126(1):90. Comment on: Ann Intern Med 1996 Jul 15;125(2):104–10. Comment on: Ann Intern Med 1996 Jul 15;125(2):137–41. Comment on: Ann Intern Med 1996 Jul 15;125(2):146–7. Comment on: Ann Intern Med 1996 Jul 15;125(2):149–51.
Communication of the cancer diagnosis to Mexican patients. Attitudes of physicians and patients. Torrecillas L. **Ann N Y Acad Sci** 1997 Feb 20;809:188–96
Attitudes toward euthanasia of physician members of the Italian Society for Palliative Care [see comments] Di Mola G, et al. **Ann Oncol** 1996 Nov;7(9):907–11. Comment in: Ann Oncol 1996 Nov;7(9):879–882.
Impact of a laryngectomy on quality of life: perspective of the patient versus that of the health care provider. Otto RA, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):693–9
Attitude adjustment anyone? Curry CE Jr. **Ann Pharmacother** 1997 Sep;31(9):1087–9
Barrier methods in the operating room: surgical habits die hard. Karagkevrekis B, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):121–3
Current techniques in total knee replacement: results of a national survey. Phillips AM, et al. **Ann R Coll Surg Engl** 1996 Nov;78(6):515–20
Who decides on the need for antibiotic prophylaxis in patients with major arthroplasties requiring dental treatment: is it a joint responsibility? Sandhu SS, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):143–7
Hepatitis B vaccine uptake among surgeons at a London teaching hospital: how well are we doing? [see comments]

Smith ER, et al. **Ann R Coll Surg Engl** 1996 Sep;78(5):447–9 . Comment in: Ann R Coll Surg Engl 1997 Mar;79(2):157.

Survey of physicians' attitudes relative to the field of surgical oncology. Ellenhorn JD, et al. **Ann Surg Oncol** 1996 Jul; 3(4):406–10

Preoperative testing before carotid endarterectomy: a survey of vascular surgeons' attitudes. Dawson DL, et al. **Ann Vasc Surg** 1997 May;11(3):264–72

Resilience--a survival tool for the nineties [editorial] Giordano BP. **AORN J** 1997 Jun;65(6):1032, 1034

As nurses, are we still in our adolescence? [editorial] Giordano BP. **AORN J** 1997 Jul;66(1):15, 18

Altruism under fire [letter; comment] David TJ. **Arch Dis Child** 1997 May;76(5):479. Comment on: Arch Dis Child 1996 Nov;75(5):366.

Physicians, pharmaceutical sales representatives, and the cost of prescribing. Caudill TS, et al. **Arch Fam Med** 1996 Apr; 5(4):201–6

Physician suicide [letter] Eilers GM. **Arch Fam Med** 1996 Apr;5(4):197–8

Effect of training on physician attitudes and practices in home and community care of the elderly. Schwartzberg JG, et al. **Arch Fam Med** 1997 Sep–Oct;6(5):439–44

Confidentiality and health insurance fraud. Farber NJ, et al. **Arch Intern Med** 1997 Mar 10;157(5):501–4

Internal medicine, psychiatry, and emergency medicine residents' views of assisted death practices. Roberts LW, et al. **Arch Intern Med** 1997 Jul 28;157(14):1603–9

Tuberculosis testing: physician attitudes and practice [letter; comment] Cersonsky J. **Arch Pediatr Adolesc Med** 1997 Feb;151(2):212. Comment on: Arch Pediatr Adolesc Med 1996 Jul;150(7):682–5.

Attitudes of academic pediatricians with a specific interest in child abuse toward the spanking of children [see comments] Fargason CA Jr, et al. **Arch Pediatr Adolesc Med** 1996 Oct;150(10):1049–53. Comment in: Arch Pediatr Adolesc Med 1997 May;151(5):531–2.

A methodology to maximize resident input in improving a pediatric rotation. Fein JA, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):840–4

Attitudes of academic pediatricians with a specific interest in child abuse toward the spanking of children [letter; comment] Fugazzotto DJ. **Arch Pediatr Adolesc Med** 1997 May;151(5):531–2. Comment on: Arch Pediatr Adolesc Med 1996 Oct;150(10):1049–53.

Pediatricians' experience with and attitudes toward firearms. Results of a national survey. Olson LM, et al. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):352–9

Application of an attribution-affect-action model of caregiving behavior. Fopma-Loy J, et al. **Arch Psychiatr Nurs** 1997 Aug;11(4):210–7

The lived experience of power and powerlessness in psychiatric nursing: a Heideggerian hermeneutical analysis. Pieranunzi VR. **Arch Psychiatr Nurs** 1997 Jun;11(3):155–62

Uncovering a world of mental illness: an analysis in perceptual transformation in undergraduate nursing students. Rohde D. **Arch Psychiatr Nurs** 1996 Dec; 10(6):347–54

General practitioners' perceptions regarding coordinated care [see comments] Bailie RS, et al. **Aust Fam Physician** 1997 Jul;26 Suppl 2:S61–5. Comment in: Aust Fam Physician 1997 Jul;26 Suppl 2:S60.

Attitudes of rural general practitioners towards undergraduate medical student attachments. Barritt A, et al. **Aust Fam Physician** 1997 Jul;26 Suppl 2:S87–90

A pre-discharge project--does GP willingness equal involvement? Ranmuthugala G, et al. **Aust Fam Physician** 1997 Jul;26 Suppl 2:S104–8

General practitioners and euthanasia. Strong opinions and unexpected views. Wilson I, et al. **Aust Fam Physician** 1997 Apr;26(4):399–401

Changes over time in attitudes to treatment and survival rates for extremely preterm infants (23–27 weeks' gestational age). Gultom E, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):56–8

Important components of antenatal care: midwives' and obstetricians views. Haertsch M, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):411–6

Integrated mental health care: practitioners' perspectives. Allen RE, et al. **Aust N Z J Psychiatry** 1997 Aug; 31(4):496–503

Group peer review in psychiatry: the relationship to quality improvement and quality care. Balla M, et al. **Aust N Z J Psychiatry** 1996 Oct;30(5):653–9

Psychiatrists working in primary care: a survey of general practitioners' attitudes. Barber R, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):278–86

Group peer review: a questionnaire-based survey. Beatson J, et al. **Aust N Z J Psychiatry** 1996 Oct;30(5):643–52

The psychiatric care of people with intellectual disabilities: the perceptions of trainee psychiatrists and psychiatric medical officers. Lennox N, et al. **Aust N Z J Psychiatry** 1995 Dec;29(4):632–7

Practice visits: a pilot study. Parker G, et al. **Aust N Z J Psychiatry** 1995 Dec;29(4):624–31

Substance abuse disorders: psychiatric trainees' knowledge, diagnostic skills and attitudes. Roche AM, et al. **Aust N Z J Psychiatry** 1995 Dec;29(4):645–52

A scale to measure attitudes toward community medicine. Rolfe IE, et al. **Aust N Z J Public Health** 1996 Aug; 20(4):433–5

Doctors, nurses, pharmacists and patients--the Rational Evaluation and Choice in Hypertension (REACH) survey of hypertension care delivery. Lip GY, et al. **Blood Press Suppl** 1997;1:6–10

Are the Health of the Nation's targets attainable? Postal survey of general practitioner's views. Cheung P, et al. **BMJ** 1997 Apr 26;314(7089):1250–1

Dealing with patients with HIV infection. Few authors have the courage to stand up and be counted [letter] Daggett P. **BMJ** 1997 Jan 18;314(7075):221

Survey of general practitioners' opinions on treatment of opiate users. Davies A, et al. **BMJ** 1997 Apr 19; 314(7088):1173–4

Doctors and patients support right to die [news] Dyer C. **BMJ** 1996 Nov 30;313(7069):1354

Resuscitation witnessed by relatives. Has proved acceptable to doctors in paediatric cases [letter; comment] Goldstein A, et al. **BMJ** 1997 Jan 11;314(7074):144–5. Comment on: BMJ 1994 Jun 25;308(6945):1687–92.

Intentions of newly qualified doctors to practise in the United Kingdom [see comments] Lambert TW, et al. **BMJ** 1997 May 31;314(7094):1591–2. Comment in: BMJ 1997 May 31;314(7094):1567–8.

General practitioners' attitudes towards treatment of opiate misusers. Better attitudes can be formed by better training [letter] Lester H, et al. **BMJ** 1997 Sep 6;315(7108):602

General practitioners' attitudes towards treatment of opiate misusers. Attitudes may be influenced by practice policy [letter] Mason JR. **BMJ** 1997 Sep 6;315(7108):602

Informed choice for users of health services: views on ultrasonography leaflets of women in early pregnancy, midwives, and ultrasonographers [see comments] Oliver S, et al. **BMJ** 1996 Nov 16;313(7067):1251–3. Comment in: BMJ 1997 Mar 15;314(7083):831.

Senior house officer training: is it getting better? A questionnaire survey [see comments] Paice E, et al. **BMJ** 1997 Mar 8;314(7082):719–20. Comment in: BMJ 1997 Mar 8;314(7082):692–3. Comment in: BMJ 1997 Jun 21;314(7097):1828–9. Comment in: BMJ 1997 Jun 21;314(7097):1829. Comment in: BMJ 1997 Jun 21;314(7097):1829–30.

Evaluation of a general practice out of hours cooperative: a questionnaire survey of general practitioners. Salisbury C. **BMJ** 1997 May 31;314(7094):1598–9

Who should decide? Qualitative analysis of panel data from public, patients, healthcare professionals, and insurers on priorities in health care. Stronks K, et al. **BMJ** 1997 Jul 12;315(7100):92–6

Results of the 1995 readers' survey. Desmond J. **Br Dent J** 1996 Mar 9;180(5):193–4

Service quality in dentistry: the role of the dental nurse. Mindak MT. **Br Dent J** 1996 Nov 23;181(10):363–8

Lighten up [letter] Robinson CA. **Br Dent J** 1996 Mar 9; 180(5):168

Reporting of adverse drug reactions by hospital doctors and the response to intervention. McGettigan P, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):98–100

Striking the balance: a grounded theory analysis of staff perspectives. Clegg JA, et al. **Br J Clin Psychol** 1996 May; 35 (Pt 2):249–64

Anti-smoking advice in general practice consultations: general practitioners' attitudes, reported practice and perceived problems. Coleman T, et al. **Br J Gen Pract** 1996 Feb;46(403):87–91

The biopsychosocial model of general practice: rhetoric or reality? Dowrick C, et al. **Br J Gen Pract** 1996 Feb; 46(403):105–7

Over-the-counter medicines [letter; comment] Erwin J, et al. **Br J Gen Pract** 1996 Feb;46(403):121–2. Comment on: Br J Gen Pract 1995 Oct;45(399):553–6.

General practitioners' views on the implementation of community-led maternity care in south Camden, London [published erratum appears in Br J Gen Pract 1997 Feb;47(415):108] Fleissig A, et al. **Br J Gen Pract** 1997 Jan;47(414):45–6

Attitudes of general practitioners to caring for people with learning disability [see comments] Kerr M, et al. **Br J Gen Pract** 1996 Feb;46(403):92–4. Comment in: Br J Gen Pract 1996 Feb;46(403):59–60.

Changes in general practice organization: survey of general practitioners' views on the 1990 contract and fundholding. Leese B, et al. **Br J Gen Pract** 1996 Feb;46(403):95–9

Formulary revision: eliciting the opinions of users. McGavock H, et al. **Br J Gen Pract** 1996 Jul;46(408):419–21

Do GPs agree with 'old' sensible drinking limits? [letter] Strang J, et al. **Br J Gen Pract** 1997 Apr;47(417):253–4

Laparoscopic sterilisation: opinion and practice among gynaecologists in Scotland. Penney GC, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):71–7

A survey of the opinions of orthodontic specialist trainees in the U.K [see comments] Keith O, et al. **Br J Orthod** 1997 May;24(2):163–7. Comment in: Br J Orthod 1997 May;24(2):169–71.

Subacute brain injury rehabilitation: an opportunity for medical education and training. Bell KR, et al. **Brain Inj** 1996 Dec;10(12):875–81

The image of health sciences librarians: how we see ourselves and how patrons see us. Blackwelder MB. **Bull Med Libr Assoc** 1996 Jul;84(3):345–50

Beyond relevance--characteristics of key papers for clinicians: an exploratory study in an academic setting. Sievert ME, et al. **Bull Med Libr Assoc** 1996 Jul;84(3):351–8

The Internet [editorial] Breeck KJ. **Can Fam Physician** 1997 Jun;43:1032–3, 1035–6 **(Eng, Fre)**

Barriers and facilitators to seniors' independence. Perceptions of seniors, caregivers, and health care providers. Brown JB, et al. **Can Fam Physician** 1997 Mar;43:469–75

Interest in different types of patients. What factors influence new-to-practice family physicians? Cohen M, et al. **Can Fam Physician** 1996 Nov;42:2170–8

Preventive care and barriers to effective prevention. How do family physicians see it? Hutchison BG, et al. **Can Fam Physician** 1996 Sep;42:1693–700

Family physicians managing tuberculosis. Qualitative study of overcoming barriers. Jackson L, et al. **Can Fam Physician** 1997 Apr;43:649–55

Attitudes toward obstetrics training. Residents surveyed at McGill University and University of Montreal. Levitt C, et al. **Can Fam Physician** 1997 Feb;43:239–46

Intention to relocate to the United States. Ma PC, et al. **Can Fam Physician** 1997 Sep;43:1533–9

A physician's experience of a "minor" illness [editorial] McNair SM. **Can Fam Physician** 1996 Dec;42:2323–5, 2333–5 **(Eng, Fre)**

Physicians to break habit [letter; comment] Riley GT. **Can Fam Physician** 1996 Dec;42:2344. Comment on: Can Fam Physician 1996 Oct;42:1903–4.

Sex-role attitudes and clinical appraisal in psychiatry residents. Belitsky CA, et al. **Can J Psychiatry** 1996 Oct; 41(8):503–8

Re: Reconcilable differences: the marriage of qualitative and quantitative methods [letter; comment] Brooks SA. **Can J Psychiatry** 1997 Jun;42(5):529–30. Comment on: Can J Psychiatry 1996 Oct;41(8):491–7.

Treatment of bipolar depression: a survey of Canadian psychiatrists. Sharma V, et al. **Can J Psychiatry** 1997 Apr; 42(3):298–302

Staff survey of organizational structure and process for a Public Health Department. Dwyer JJ. **Can J Public Health** 1995 Nov–Dec;86(6):418–23

Some final responses to Dr. Waugh [letter; comment] Adams PV. **Can Med Assoc J** 1997 Jun 1;156(11):1529. Comment on: Can Med Assoc J 1997 Feb 1;156(3):408.

As hospitals shrink, consolidate or close, physicians are swept up in the turmoil. Baer N. **Can Med Assoc J** 1996 Oct 15;155(8):1166–9

Physicians' attitudes toward patients' use of alternative cancer therapies. Bourgeault IL. **Can Med Assoc J** 1996 Dec 15;155(12):1679–85

A question of care. Comor H. **Can Med Assoc J** 1997 Feb 15;156(4):541–4

Innovations making CME more clinically relevant, attractive. Cottrell K. **Can Med Assoc J** 1997 May 15;156(10):1449–51

Kevorkian: tragic hero [letter] Dunn RW. **Can Med Assoc J** 1996 Dec 1;155(11):1548

Revisiting Rick: more bad news on the HMO front [letter; comment] Gordon M. **Can Med Assoc J** 1997 Mar 1; 156(5):632–3. Comment on: Can Med Assoc J 1996 Jan 15;154(2):142–3.

Attitudes toward the use of gender-inclusive language among residency trainees. The McMaster Residency Training Program Directors. Guyatt GH, et al. **Can Med Assoc J** 1997 May 1;156(9):1289–93

Some final responses to Dr. Waugh [letter; comment] Harris JD. **Can Med Assoc J** 1997 Jun 1;156(11):1529–30. Comment on: Can Med Assoc J 1997 Feb 1;156(3):408.

Little room for error in Canada's postgraduate training system [see comments] Robertson S. **Can Med Assoc J** 1997 Mar 1;156(5):682–4. Comment in: CMAJ 1997 Jun 15;156(12):1701. Comment in: CMAJ 1997 Jul 15;157(2):134, 136; discussion 139. Comment in: CMAJ 1997 Jul 15;157(2):136, 138; discussion 139. Comment in: CMAJ 1997 Jul 15;157(2):138.

Interactions with the pharmaceutical industry: a survey of family medicine residents in Ontario. Sergeant MD, et al. **Can Med Assoc J** 1996 Nov 1;155(9):1243–8

CMA symposium on alternative medicine draws standing-room-only crowd. Sullivan P. **Can Med Assoc J** 1996 Nov 1;155(9):1330

Government reductions are unkindest cuts [letter] Upmalis IH. **Can Med Assoc J** 1996 Dec 1;155(11):1547

Alberta Euthanasia Survey: 3-year follow-up. Verhoef MJ, et al. **Can Med Assoc J** 1996 Oct 1;155(7):885–90

Kevorkian: tragic hero [letter] Winkelaar P. **Can Med Assoc J** 1996 Dec 1;155(11):1547–8

Over the counter and into trouble [letter] [see comments] Younger-Lewis C. **Can Med Assoc J** 1997 Jan 1;156(1):17 . Comment in: Can Med Assoc J 1997 Mar 15;156(6):764–5. Comment in: Can Med Assoc J 1997 Apr 15;156(8):1115.

Anxiety and depression in hospitalized patients with cancer: agreement in patient-staff dyads. Lampic C, et al. **Cancer Nurs** 1996 Dec;19(6):419–28

Phenomenological study of nurses caring for dying patients. Rittman M, et al. **Cancer Nurs** 1997 Apr;20(2):115–9

Effect of attitudes and subjective norms on intention to provide oral care to patients receiving antineoplastic chemotherapy. Wallace KG, et al. **Cancer Nurs** 1997 Feb; 20(1):34–41

Prague's season of discontent [letter] Crawshaw R. **Cas Lek Cesk** 1996 Aug 21;135(16):535–6

Euthanasia--the final exit [letter] Gordon JA. **Cent Afr J Med** 1996 Jul;42(7):216–7

Outcome-based practice: disclosure rates of child sexual abuse comparing allegation blind and allegation informed

structured interviews [see comments] Cantlon J, et al. **Child Abuse Negl** 1996 Nov;20(11):1113–20. Comment in: Child Abuse Negl 1996 Nov;20(11):1111–2.

Medical student response to an interactive patient simulation program used to supplement child abuse education. Dorsey JK, et al. **Child Abuse Negl** 1996 Oct;20(10):973–7

The attitudes of female and male residential care–workers to the perpetrators of sexual and physical assault. Harnett PH. **Child Abuse Negl** 1997 Sep;21(9):861–8

Clinicians' hypotheses regarding clients' problems: are they less likely to hypothesize sexual abuse in male compared to female clients? Holmes G, et al. **Child Abuse Negl** 1996 Jun;20(6):493–501

Interviews with children suspected of sexual abuse [editorial; comment] Jones DP. **Child Abuse Negl** 1996 Nov; 20(11):1111–2. Comment on: Child Abuse Negl 1996 Nov;20(11):1113–20.

Statewide survey of physician attitudes to controversies about child abuse. Marshall WN, et al. **Child Abuse Negl** 1997 Feb;21(2):171–9

Variations in perceptions of child neglect. Rose SJ, et al. **Child Welfare** 1996 Mar–Apr;75(2):139–60

Patient–physician consensus on quality of life in dermatology. Jemec GB, et al. **Clin Exp Dermatol** 1996 May;21(3):177–9

Attitudes towards termination for fetal abnormality: comparisons in three European countries. Drake H, et al. **Clin Genet** 1996 Mar;49(3):134–40

China's genetic services providers' attitudes towards several ethical issues: a cross–cultural survey. Mao X, et al. **Clin Genet** 1997 Aug;52(2):100–9

Health care providers' attitudes and beliefs about functional impairments and chronic back pain. Rainville J, et al. **Clin J Pain** 1995 Dec;11(4):287–95

The use of and familiarity with neurological eponyms at the close of the 20th century by Dutch neurologists. An inventory. Franke EG, et al. **Clin Neurol Neurosurg** 1997 May;99(2):91–8

Local anaesthesia in middle ear surgery: survey of patients and surgeons. Yung MW. **Clin Otolaryngol** 1996 Oct; 21(5):404–8

Parents' and pediatricians' views of individuals with meningomyelocele. Blaymore Bier JA, et al. **Clin Pediatr (Phila)** 1996 Mar;35(3):113–7

Canada's organ shortage is severe and getting worse. Baer N. **CMAJ** 1997 Jul 15;157(2):179–82

Tobacco and health care [letter; comment] Finlayson R. **CMAJ** 1997 Jul 15;157(2):133; discussion 133–4. Comment on: Can Med Assoc J 1997 Jan 15;156(2):240A–240F.

Canadian physicians' attitudes about and preferences regarding clinical practice guidelines. Hayward RS, et al. **CMAJ** 1997 Jun 15;156(12):1715–23

For a physician with the signature scar of the CABG club, a friend's death brings not only grief but also memories and fear. Rapoport D. **CMAJ** 1997 Jun 15;156(12):1733–4

Perceptions of the risks and benefits of orthodontic treatment. McComb JL, et al. **Community Dent Health** 1996 Sep; 13(3):133–8

Impact on English dentists of the threat of HIV infection. Craven RC, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):228–9

A comparison of patient satisfaction and dentist evaluation of overdenture therapy. Ettinger RL, et al. **Community Dent Oral Epidemiol** 1997 Jun;25(3):223–7

Dangerousness and dentistry: an explanation of dentists' reactions and responses to the treatment of HIV–seropositive patients. Gibson BJ, et al. **Community Dent Oral Epidemiol** 1996 Oct;24(5):341–5

Ideal role behaviours as seen by dentists and patients themselves and by their role partners: do they differ? Lahti S, et al. **Community Dent Oral Epidemiol** 1996 Aug; 24(4):245–8

Gender differences in characteristics, infection control practices, knowledge and attitudes related to HIV among Ontario dentists. McCarthy GM, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):412–5

A two–centre study to determine dentists' agreement with current guidelines on the frequency of bitewing radiography. Rushton VE, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):175–81

Dutch dentists' conceptions of dental silver amalgam. Schuurs AH, et al. **Community Dent Oral Epidemiol** 1996 Aug;24(4):268–71

How mental health and developmental disabilities staff prioritize training and development needs. Garman AN, et al. **Community Ment Health J** 1997 Apr;33(2):143–8

Computer attitude and computer anxiety in nursing. Validation of an instrument using an Australian sample. Jayasuriya R, et al. **Comput Nurs** 1996 Nov–Dec; 14(6):340–5

Attitudes of Australian nurses toward the implementation of a clinical information system. Marasovic C, et al. **Comput Nurs** 1997 Mar–Apr;15(2):91–8

Nurses' attitudes toward computerization in clinical practice in a British general hospital. Simpson G, et al. **Comput Nurs** 1997 Jan–Feb;15(1):37–42

Rule 6, never take yourself seriously. Massey RU. **Conn Med** 1996 May;60(5):309

Physicians' attitudes toward clinical trials and their relationship to patient accrual in a Nordic multicenter study on myeloma. Hjorth M, et al. **Control Clin Trials** 1996 Oct; 17(5):372–86

Medical students' attitudes toward electroconvulsive therapy: an Indian perspective. Andrade C, et al. **Convuls Ther** 1996 Jun;12(2):86–90

Suicide in a general hospital: the case of the elderly. de Leo D. **Crisis** 1997;18(1):5–6

Factors explaining variability among caregivers in the intent to restrict life–support interventions in a pediatric intensive care unit. Randolph AG, et al. **Crit Care Med** 1997 Mar; 25(3):435–9

A dermatologic diary. Portrait of a practice. Shelley WB, et al. **Cutis** 1997 Apr;59(4):181–2

Managed care for the millenium. Meckelnburg RL. **Del Med J** 1996 Nov;68(11):551–3

Rethinking the relationships between disability, rehabilitation, and society. Imrie R. **Disabil Rehabil** 1997 Jul;19(7):263–71 (37 ref.)

From system changes to workplace accommodation: rehabilitation trends in training, education, and the system of professions in Australia. Remenyi A. **Disabil Rehabil** 1996 Aug;18(8):415–28

Tanzania oral health workers' views on the relevance of their training to their duties. Mosha HJ, et al. **East Afr Med J** 1996 Jul;73(7):443–7

Attitudes toward informing the cancer patient––a survey of Norwegian physicians. Loge JH, et al. **Eur J Cancer** 1996 Jul;32A(8):1344–8

What do accident and emergency medical staff think of practice guidelines? Hardern RD, et al. **Eur J Emerg Med** 1997 Jun;4(2):68–71

Attitude of involved epidemiologists toward the first European outbreak of rhinosporidiosis. Radovanovic Z, et al. **Eur J Epidemiol** 1997 Feb;13(2):157–60

Attitudes and opinions of French cardiologists towards smoking. Tessier JF, et al. **Eur J Epidemiol** 1995 Dec; 11(6):615–20

The attitude against immunisation within some branches of complementary medicine. Ernst E. **Eur J Pediatr** 1997 Jul; 156(7):513–5 (32 ref.)

Staff attitudes towards continuation of life–support in newborns with major congenital anomalies. Hazebroek FW, et al. **Eur J Pediatr** 1996 Sep;155(9):783–6

Parental presence during induction of anesthesia: the surgeon's perspective. Kain ZN, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):323–7

Changing attitudes towards breast–conserving treatment of early breast cancer in the south–eastern Netherlands: results of a survey among surgeons and a registry–based analysis of patterns of care. Voogd AC, et al. **Eur J Surg Oncol** 1997 Apr;23(2):134–8

Characteristics of medical students by level of interest in family practice. Bowman MA, et al. **Fam Med** 1996 Nov–Dec;28(10):713–9

Medical school culture and generalist education: perceptions of a medical school faculty. Curtis P, et al. **Fam Med** 1997 May;29(5):353–8

Physicians' interactions with families of terminally ill patients [see comments] Garfinkle CL, et al. **Fam Med** 1996 Nov–Dec;28(10):702–7. Comment in: Fam Med 1996 Nov–Dec;28(10):692–3.

First–year medical students' knowledge of and attitudes toward primary care careers. Grayson MS, et al. **Fam Med** 1996 May;28(5):337–42

Do program directors and their chief residents view the role of chief resident similarly? Norris T, et al. **Fam Med** 1996 May;28(5):343–5

Gay and lesbian physicians in training: family practice program directors' attitudes and students' perceptions of bias. Oriel KA, et al. **Fam Med** 1996 Nov–Dec;28(10):720–5

How to excel as a teacher of geriatrics [letter] Reyes–Ortiz CA, et al. **Fam Med** 1996 Sep;28(8):534

Integration of mental health and medical records: practices and opinions of behavioral scientists. Sanders D, et al. **Fam Med** 1997 Jul–Aug;29(7):496–9

The Health Promotion–Disease Prevention Project: effect on medical students' attitudes toward practice in medically underserved areas [see comments] Tippets E, et al. **Fam Med** 1996 Jul–Aug;28(7):467–71. Comment in: Fam Med 1996 Jul–Aug;28(7):508–10.

Why is it so difficult for general practitioners to discuss alcohol with patients? Arborelius E, et al. **Fam Pract** 1995 Dec;12(4):419–22

Is ownership more important than the scientific credibility of audit protocols? A survey of medical audit advisory groups. Baker R, et al. **Fam Pract** 1997 Apr;14(2):107–11

Measuring general practitioner psychology: the personal construct perspective. Bower P, et al. **Fam Pract** 1997 Apr; 14(2):142–7

Analysis of primary care staff language about aggression at work using concordancing techniques to identify themes. Carter YH, et al. **Fam Pract** 1997 Apr;14(2):136–41

Sampling for qualitative research using quantitative methods. 1. Measuring GPs' attitudes towards discussing smoking with patients. Coleman T, et al. **Fam Pract** 1996 Dec; 13(6):526–30

Sampling for qualitative research using quantitative methods. 2. Characteristics of GPs who agree to video–taping of consultations. Coleman T. **Fam Pract** 1996 Dec;13(6):531–5

'Being a foreigner, I may be punished if I make a small mistake': assessing transcultural experiences in caring for patients. Fiscella K, et al. **Fam Pract** 1997 Apr;14(2):112–6

'Ending up a GP': a qualitative study of junior doctors' perceptions of general practice as a career. Petchey R, et al. **Fam Pract** 1997 Jun;14(3):194–8

Doctors' willingness to refer elderly patients for elective surgery. Ryynänen OP, et al. **Fam Pract** 1997 Jun; 14(3):216–9

A comparison of patient–reported reasons for encounter and provider–reported diagnoses. Veitch PC. **Fam Pract** 1995 Dec;12(4):408–12

Complementary medicine: use and attitudes among GPs. White AR, et al. **Fam Pract** 1997 Aug;14(4):302–6

How Hawaii's doctors feel about physician–assisted suicide and euthanasia: an overview. Siaw LK, et al. **Hawaii Med J** 1996 Dec;55(12):296–8

Patients with dementia: the view from general practice in Grampian. Bisset AF, et al. **Health Bull (Edinb)** 1996 Jan; 54(1):32–6

'A controlled trial of general practitioner's attitudes to patients with schizophrenia'. Health Bulletin 1996; 201–3 [letter] Hamilton R. **Health Bull (Edinb)** 1996 Sep;54(5):430

General practitioners and drug users: their current practice and expectations of specialist services. Ralston GE, et al. **Health Bull (Edinb)** 1996 Jan;54(1):16–21

Paediatricians' views on renal services for children and adolescents in Scotland. Willis FR, et al. **Health Bull (Edinb)** 1997 Jan;55(1):49–51

Utility of the theories of reasoned action and planned behavior for predicting physician behavior: a prospective analysis. Millstein SG. **Health Psychol** 1996 Sep; 15(5):398–402

Obstetricians' receptiveness to teen prenatal patients who are Medicaid recipients. Gifford B. **Health Serv Res** 1997 Aug; 32(3):265–82

Connecting group members through telephone and computer groups. Galinsky MJ, et al. **Health Soc Work** 1997 Aug; 22(3):181–8

Social workers' attitudes toward participants' rights in adoption and new reproductive technologies. Holbrook SM. **Health Soc Work** 1996 Nov;21(4):257–66

Case manager–physician collaboration: implications for professional identity, roles, and relationships. Netting FE, et al. **Health Soc Work** 1996 Aug;21(3):216–24

Compensation. Show them the money. Hudson T. **Hosp Health Netw** 1997 May 5;71(9):40, 42

Palliative care and the suffering index [editorial] Stollerman GH. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):19–21

Alternative medicine and enlightened physicians [letter; comment] Becker K. **Image J Nurs Sch** 1997 Spring;29(1):8 . Comment on: Image J Nurs Sch 1996 Summer;28(2):95–9.

Research for clinical practice [letter] Prevost SS. **Image J Nurs Sch** 1997 Spring;29(1):9

Nurses' willingness to care for AIDS patients and spirituality, social support, and death anxiety. Sherman DW. **Image J Nurs Sch** 1996 Fall;28(3):205–13

Indiana family physician attitudes and practices concerning smoking cessation. Saywell RM, et al. **Indiana Med** 1996 Mar–Apr;89(2):149–56

Preferences for schizophrenia–related health states: a comparison of patients, caregivers and psychiatrists. Revicki DA, et al. **Int Clin Psychopharmacol** 1996 Jun; 11(2):101–8

The doctor's view on education and training aspects of secure communication. Borst F, et al. **Int J Biomed Comput** 1996 Oct;43(1–2):95–100

Sexual expression and dementia. Views of caregivers: A pilot study [editorial] Holmes D, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):695–701

An Australian occupational therapist's impression of work in a London psychogeriatric service. Moffatt F. **Int J Geriatr Psychiatry** 1997 Feb;12(2):259–60

Geriatric psychiatry down under––a personal view. Swann AG. **Int J Geriatr Psychiatry** 1997 Feb;12(2):267–9

Attitudes of Mexican physicians toward induced abortion. Casanueva E, et al. **Int J Gynaecol Obstet** 1997 Jan; 56(1):47–52

Folate prophylaxis for neural tube defects in infertility units in the UK. Luckas M, et al. **Int J Gynaecol Obstet** 1997 Feb;56(2):187–8

Professional defenses: medical students' perceptions of medical malpractice. Annandale E. **Int J Health Serv** 1996; 26(4):751–75

Toward a social structural understanding of occupational hazards in public health. Skillen DL. **Int J Health Serv** 1996;26(1):111–46

Dimensions of care in five United States nursing homes: identifying invisible work in care–giving. Jackson EM. **Int J Nurs Stud** 1997 Jun;34(3):192–200

Nurses' memory of patient's pain. McDonald DD. **Int J Nurs Stud** 1996 Oct;33(5):487–94

Systematic clinical supervision, working milieu and influence over duties: the psychiatric nurse's viewpoint––a pilot study. Severinsson EI, et al. **Int J Nurs Stud** 1996 Aug; 33(4):394–406

An evaluation of the effectiveness of public health nursing: a case study of the maternal and child health centres in Hong Kong. Twinn S, et al. **Int J Nurs Stud** 1996 Aug; 33(4):442–54

Practice nurses' beliefs about obesity and weight related interventions in primary care. Hoppé R, et al. **Int J Obes Relat Metab Disord** 1997 Feb;21(2):141–6

Quality assurance in Swiss University Hospitals: a survey among clinical department heads. Graz B, et al. **Int J Qual Health Care** 1996 Jun;8(3):271–7

Impact of hospital and community provider based clinical audit programmes: perceptions of doctors, nurses and other

health professionals. Lord J, et al.
Int J Qual Health Care 1996 Dec;8(6):527–35

Assessing the impact of mental health programs upon community: the perspectives of primary caregivers and consumers. Mira JJ, et al. **Int J Qual Health Care** 1997 Apr;9(2):121–8

Autonomy and practice: the case of complementary practitioners in the UK. Tovey P.
Int J Qual Health Care 1997 Feb;9(1):55–9

Simulated disability exercises and their impact on attitudes toward persons with disabilities. Grayson E, et al.
Int J Rehabil Res 1996 Jun;19(2):123–31

Interventions for attitude change towards people with disabilities: how successful are they? Pernice R, et al.
Int J Rehabil Res 1996 Jun;19(2):171–4

General practitioners attitudes towards depression: a study in primary care setting in Brazil. Botega NJ, et al.
Int J Soc Psychiatry 1996 Autumn;42(3):230–7

Focus groups in mental health research: enhancing the validity of user and provider questionnaires. Powell RA, et al. **Int J Soc Psychiatry** 1996 Autumn;42(3):193–206

Agitation among elderly persons at adult day–care centers: the experiences of relatives and staff members. Cohen–Mansfield J, et al. **Int Psychogeriatr** 1995 Fall; 7(3):447–58

Family and physicians' views of surrogate decision–making: the roles and how to choose. Silberfeld M, et al.
Int Psychogeriatr 1996 Winter;8(4):589–96

Relation between smoking status of physicians and their enthusiasm to offer smoking cessation advice [see comments] Kawakami M, et al. **Intern Med** 1997 Mar; 36(3):162–5. Comment in: Intern Med 1997 Mar;36(3):159.

IMS survey reflects physicians' concerns, future needs.
Iowa Med 1997 Jul–Aug;87(6):235–6

'My patient was dying' [editorial] McMillan W.
Iowa Med 1996 Sep;86(7):263–4

Achieving clinical confidence. Nelson R. **Iowa Med** 1996 Sep; 86(7):287

General practitioners knowledge of and attitudes to the use of seat belts in pregnancy. Wallace C. **Ir Med J** 1997 Mar; 90(2):63–4

Attitudes of primary care physicians to the management of asthma and their perception of its relationship to patients' work. Kahan E, et al. **Isr J Med Sci** 1996 Sep;32(9):757–62

Changes in attitudes of medical students towards psychiatry: an evaluation of a clerkship in psychiatry. Guttmann F, et al. **Isr J Psychiatry Relat Sci** 1996;33(3):158–66

Satisfaction with the accident and emergency department––a postal survey of general practitioners' views. Choyce MQ, et al. **J Accid Emerg Med** 1996 Jul;13(4):280–2

Attitudes of Dublin accident and emergency department doctors and nurses towards the services offered by local general practitioners. Gibney D, et al.
J Accid Emerg Med 1995 Dec;12(4):262–5

Involving health care workers in screening for alcohol problems. McCrady BS, et al. **J Addict Dis** 1996;15(3):45–58

Interviewing techniques with adolescents in primary care. Purcell JS, et al. **J Adolesc Health** 1997 Apr;20(4):300–5

Nurses' learning experience and expressed opinions regarding seclusion practice within one NHS trust. Alty A.
J Adv Nurs 1997 Apr;25(4):786–93

Nurses' attitudes towards suicidal behaviour––a comparative study of community mental health nurses and nurses working in an accidents and emergency department. Anderson M. **J Adv Nurs** 1997 Jun;25(6):1283–91

An evaluation of community nursing services for HIV/AIDS patients in Lothian, Scotland. Atkinson FI, et al.
J Adv Nurs 1996 Oct;24(4):736–42

A critical review of the belief that technology is a neutral object and nurses are its master. Barnard A.
J Adv Nurs 1997 Jul;26(1):126–31 (57 ref.)

Studying the future: a Delphi survey of how multi–disciplinary clinical staff view the likely development of two community mental health centres over the course of the next two years. Beech B. **J Adv Nurs** 1997 Feb; 25(2):331–8

Knowledge, skills and experiences for community health nursing practice: the perceptions of community nurses, administrators and educators. Bramadat IJ, et al.
J Adv Nurs 1996 Dec;24(6):1224–33

Attitudes towards mental illness: testing the contact hypothesis among Chinese student nurses in Hong Kong. Callaghan P, et al. **J Adv Nurs** 1997 Jul;26(1):33–40

Nursing attitudes to the care of elderly patients at risk of continuing hospital care. Carter H, et al. **J Adv Nurs** 1996 Sep;24(3):448–55

Project 2000. Perception of the philosophy and practice of nursing: preparation for practice. Clark JM, et al.
J Adv Nurs 1997 Aug;26(2):246–56

Nursing students' perceptions of difficult or challenging clinical situations. Cooke M. **J Adv Nurs** 1996 Dec; 24(6):1281–7

The pursuit of excellence in nursing care: what does it mean? Coulon L, et al. **J Adv Nurs** 1996 Oct;24(4):817–26

Nurses' conceptualizations of caring attitudes and behaviours. Dyson J. **J Adv Nurs** 1996 Jun;23(6):1263–9

Aggression in clinical settings: nurses' views. Farrell GA.
J Adv Nurs 1997 Mar;25(3):501–8

Mental health intensive care: the nurses' experience and perceptions of a new unit. Gentle J. **J Adv Nurs** 1996 Dec; 24(6):1194–200

Is non–judgemental care possible in the context of nurses' attitudes to patients' sexuality? Hayter M. **J Adv Nurs** 1996 Oct;24(4):662–6 (39 ref.)

Mixed messages in nursing research: their contribution to the persisting hiatus between evidence and practice. Hicks C, et al. **J Adv Nurs** 1997 Mar;25(3):595–601 (20 ref.)

The potential impact of gender stereotypes for nursing research. Hicks C. **J Adv Nurs** 1996 Nov;24(5):1006–13

Investigating attitudes to research in primary health care teams. Hicks C, et al. **J Adv Nurs** 1996 Nov;24(5):1033–41

Attitudes towards people with HIV/AIDS: entropy and health care ethics. Hodgson I. **J Adv Nurs** 1997 Aug; 26(2):283–8 (42 ref.)

Towards a critical theory of mental health nursing. Hopton J. **J Adv Nurs** 1997 Mar;25(3):492–500 (72 ref.)

Effects of group discussion and guided patient care experience on nurses' attitudes towards care of patients with AIDS. Kemppainen JK, et al. **J Adv Nurs** 1996 Aug; 24(2):296–302

Attributes of nurses that determine the quality of care for mentally handicapped people in an institution. Lau VM, et al. **J Adv Nurs** 1996 Dec;24(6):1109–15

Patients' needs in hospital: nurses' and patients' views. Lauri S, et al. **J Adv Nurs** 1997 Feb;25(2):339–46

Nurses' representations of the positive and negative features of nursing [published erratum appears in J Adv Nurs 1996 Nov;24(5):1102] Lawrence JA, et al. **J Adv Nurs** 1996 Aug; 24(2):375–84

Willingness to provide care and treatment for patients with HIV/AIDS. McCann TV. **J Adv Nurs** 1997 May; 25(5):1033–9

What do registered nurses and midwives feel and know about research? McSherry R. **J Adv Nurs** 1997 May;25(5):985–98

The important attributes of a nurse from the perspective of qualified and student nurses. March PL, et al.
J Adv Nurs 1996 Oct;24(4):810–6

Perceptions of public health nursing: views from the field. Reutter LI, et al. **J Adv Nurs** 1996 Jul;24(1):7–15

Addressing barriers: disabled rights and the implications for nursing of the social construct of disability. Richardson M. **J Adv Nurs** 1997 Jun;25(6):1269–75 (47 ref.)

Constructing career pathways in nursing: some issues for research and policy. Robinson S, et al. **J Adv Nurs** 1997 Mar;25(3):602–14

Learning from practice? Mental health nurses' perceptions and experiences of clinical supervision. Scanlon C, et al.
J Adv Nurs 1997 Aug;26(2):295–303

Clinical supervisors' views of their leadership role in the clinical supervision process within nursing care. Severinsson EI, et al. **J Adv Nurs** 1996 Jul;24(1):151–61

Postgraduate education expectations: a survey of Hong Kong graduate nurses. Simsen BJ, et al. **J Adv Nurs** 1996 Oct; 24(4):827–35

Nurse teachers' perceptions of information technology: a study of nurse teachers in Northern Ireland. Sinclair M, et al. **J Adv Nurs** 1997 Feb;25(2):372–6

Attitudes of nurses in a general hospital towards people with learning disabilities: influences of contact, and graduate–non–graduate status, a comparative study. Slevin E, et al. **J Adv Nurs** 1996 Dec;24(6):1116–26

Asking nurses about advocating for patients: 'reactive' and 'proactive' accounts. Snowball J. **J Adv Nurs** 1996 Jul; 24(1):67–75

Attitudes towards the relevance of biological, behavioural and social sciences in nursing education. Thornton T.
J Adv Nurs 1997 Jul;26(1):180–6

Encounters, endings and temporality in psychiatric nursing. Walsh K. **J Adv Nurs** 1997 Mar;25(3):485–91

The introduction of case management on a rehabilitation floor. Waterman H, et al. **J Adv Nurs** 1996 Nov;24(5):960–7

The caring dimensions inventory (CDI): content validity, reliability and scaling. Watson R, et al. **J Adv Nurs** 1997 Jan;25(1):87–94

Pharmacological choices after one antidepressant fails: a survey of UK psychiatrists. Shergill SS, et al.
J Affect Disord 1997 Mar;43(1):19–25

Allied health faculty attitudes toward rural clinical practice. Boonyawiroj EB, et al. **J Allied Health** 1996 Summer; 25(3):263–74

Changes in student perceptions of interdisciplinary practice in the rural setting. Hayward KS, et al.
J Allied Health 1996 Fall;25(4):315–27

Memoirs of a malpractice suit. Lowenkopf EL.
J Am Acad Psychoanal 1995 Winter;23(4):731–48

Physicians' attitudes and beliefs about deaf patients [see comments] Ralston E, et al. **J Am Board Fam Pract** 1996 May–Jun;9(3):167–73. Comment in: J Am Board Fam Pract 1996 Sep–Oct;9(5):392.

Beyond signing the death certificate. Shepherd AJ.
J Am Board Fam Pract 1997 Jul–Aug;10(4):301–4

Supine infant sleep: what do family physicians recommend? Spieker MR, et al. **J Am Board Fam Pract** 1996 Sep–Oct; 9(5):319–23

Perimortal care: comments on three vignettes about death [editorial] Stephens GG. **J Am Board Fam Pract** 1997 Jul–Aug;10(4):309

Dentists' HIV–related ethicality: an empirical test. Sadowsky D, et al. **J Am Coll Dent** 1997 Spring;64(1):27–9

In praise of alternative medicine: views of a healthcare consumer and college health employee. Dinur E.
J Am Coll Health 1997 Jan;45(4):183–6

Paternalism, risk and patient choice. Baergen R, et al.
J Am Dent Assoc 1997 Apr;128(4):481–4

Attitudes of registered dietitians toward personal overweight and overweight clients. McArthur LH, et al.
J Am Diet Assoc 1997 Jan;97(1):63–6

Mentoring in the growth and development of the geriatric fellow [letter] Johnson TM 2nd, et al.
J Am Geriatr Soc 1996 Dec;44(12):1486–7

The doctor's role in discussing advance preferences for end–of–life care: perceptions of physicians practicing in the VA. Markson L, et al. **J Am Geriatr Soc** 1997 Apr; 45(4):399–406

Patient factors associated with breast cancer screening among older women. Marwill SL, et al. **J Am Geriatr Soc** 1996 Oct;44(10):1210–4

Physician responses to a hospital policy allowing them to not offer cardiopulmonary resuscitation. Swig L, et al.
J Am Geriatr Soc 1996 Oct;44(10):1215–9

Implementation of physician order entry: user satisfaction and self–reported usage patterns. Lee F, et al.
J Am Med Inform Assoc 1996 Jan–Feb;3(1):42–55

Is there a "women's ethic" in genetics: a 37–nation survey of providers. Wertz DC. **J Am Med Womens Assoc** 1997 Winter;52(1):33–8

Men and women in optometry. II. Attitudes toward career and family. Voorhees LI, et al. **J Am Optom Assoc** 1997 Jul;68(7):435–47

Pharmacists' beliefs about abortion and RU–486. Giannetti V. **J Am Pharm Assoc (Wash)** 1996 Dec;NS36(12):698–703

The control case: a unique analytic situation. Cabaniss DL, et al. **J Am Psychoanal Assoc** 1997;45(1):189–99

Why is it difficult for staff to discuss advance directives with chronic dialysis patients? Perry E, et al.
J Am Soc Nephrol 1996 Oct;7(10):2160–8

Attitudes of veterinarians to a standardized slaughter–monitoring program for pigs. Davies PR, et al.
J Am Vet Med Assoc 1996 Jul 1;209(1):123–6

Psychological type: a 32–year follow–up. Bradway K, et al.
J Anal Psychol 1996 Oct;41(4):553–74

Breastfeeding in Arkansas: trends in the northeast region and physician self assessment quiz. Albey M, et al.
J Ark Med Soc 1996 Sep;93(4):181–4

Attitudes toward adult patients with sickle cell disease: silent prejudice or benign neglect? [letter] Ballas SK.
J Assoc Acad Minor Phys 1996;7(3):62

Professional perceptions of children with developmental difficulties: the influence of race and socioeconomic status. Cuccaro ML, et al. **J Autism Dev Disord** 1996 Aug; 26(4):461–9

Ontario dentists' knowledge and beliefs about selected aspects of diagnosis, prevention and restorative dentistry. Lewis DW, et al. **J Can Dent Assoc** 1996 Apr;62(4):337–44

A survey of general dentists in Ontario, Part I: Sealant use and knowledge. Main PA, et al. **J Can Dent Assoc** 1997 Jul–Aug;63(7):542, 545–53

Knowledge of, attitudes toward, and barriers to cancer control and screening among primary care physicians in Egypt: the need for postgraduate medical education. Soliman AS, et al. **J Cancer Educ** 1997 Summer;12(2):100–7

Debate and argument. Who participates in child sexual abuse research? [comment] Feehan CJ, et al.
J Child Psychol Psychiatry 1995 Nov;36(8):1475–6. Comment on: J Child Psychol Psychiatry 1993 Sep;34(6):935–44.

Heroes, martyrs, and other choices [comment] Fletcher JC, et al. **J Clin Ethics** 1996 Winter;7(4):301–5. Comment on: J Clin Ethics 1996 Winter;7(4):297–9.

Where are the heroes of bioethics? [see comments] Freedman B. **J Clin Ethics** 1996 Winter;7(4):297–9. Comment in: J Clin Ethics 1996 Winter;7(4):291–6. Comment in: J Clin Ethics 1996 Winter;7(4):301–5. Comment in: J Clin Ethics 1996 Winter;7(4):307–9.

Everyday heroes in ethics: Part I [comment] Howe EG.
J Clin Ethics 1996 Winter;7(4):291–6. Comment on: J Clin Ethics 1996 Winter;7(4):297–9.

Perhaps we all be heroes [comment] Reitemeier PJ.
J Clin Ethics 1996 Winter;7(4):307–9. Comment on: J Clin Ethics 1996 Winter;7(4):297–9.

She said/he said: ethics consultation and the gendered discourse [see comments] Rubin S, et al. **J Clin Ethics** 1996 Winter;7(4):321–32 (37 ref.). Comment in: J Clin Ethics 1996 Winter;7(4):315–9.

Professional healthcare workers' attitudes toward treating patients with multidrug–resistant tuberculosis. Sugarman J, et al. **J Clin Ethics** 1996 Fall;7(3):222–7

Attitudes of medical students to necropsy. Botega NJ, et al.
J Clin Pathol 1997 Jan;50(1):64–6

Evidence based practice: clinicians' use and attitudes to near patient testing in hospitals. Gray TA, et al.
J Clin Pathol 1996 Nov;49(11):903–8

A survey of general practitioners' views on autopsy reports. Karunaratne S, et al. **J Clin Pathol** 1997 Jul;50(7):548–52

The role of the alliance in the pharmacologic treatment of depression. Weiss M, et al. **J Clin Psychiatry** 1997 May; 58(5):196–204

The need for leadership and management training for community nurses: results of a Ugandan district health nurse survey. Ziegler PB, et al.
J Community Health Nurs 1997;14(2):119–30

Society and the not–so–new genetics: what are we afraid of? Some future predictions from a social scientist. Wertz DC. **J Contemp Health Law Policy** 1997 Spring; 13(2):299–345 (130 ref.)

Dentists' opinions on aspects of cast titanium restorations.

Berg E. **J Dent** 1997 Mar;25(2):113–7
Knowledge and attitudes of Japanese dental health care workers towards HIV–related disease. Kitaura H, et al. **J Dent** 1997 May–Jul;25(3–4):279–83
Cross–infection control: the role of "in–training" dental nurses. Sarll DW, et al. **J Dent** 1996 Sep;24(5):349–53
A comparison of self–reported dental health attitudes and behavior between selected Japanese and Australian students. Kawamura M, et al. **J Dent Educ** 1997 Apr; 61(4):354–60
Attitudes toward women dental students among male dental students and faculty in 1976 and 1996. Rosenberg HM, et al. **J Dent Educ** 1996 Oct;60(10):847–52
Clinical training in self–regulation and practical pediatric hypnosis: what pediatricians want pediatricians to know. Mize WL. **J Dev Behav Pediatr** 1996 Oct;17(5):317–22
Emergency admission of patients to general surgical beds: attitudes of general practitioners, surgical trainees, and consultants in Liverpool, UK. McCulloch P, et al. **J Epidemiol Community Health** 1997 Jun;51(3):315–9
Brief encounter: a dialogue between a philosopher and an NHS manager on the subject of 'quality'. Loughlin M. **J Eval Clin Pract** 1995 Nov;1(2):81–5
Scientific knowledge in medicine: a new clinical epistemology? Marshall T. **J Eval Clin Pract** 1997 Apr; 3(2):133–8 (16 ref.)
Evidence–based medicine: why all the fuss? This is why [editorial] Miles A, et al. **J Eval Clin Pract** 1997 Apr; 3(2):83–6 (19 ref.)
The protagonists of 'evidence–based medicine': arrogant, seductive and controversial. Polychronis A, et al. **J Eval Clin Pract** 1996 Feb;2(1):9–12 (30 ref.)
Individual attitudes are no match for complex systems [editorial; comment] Crabtree BF. **J Fam Pract** 1997 May; 44(5):447–8. Comment on: J Fam Pract 1997 May;44(5):451–61.
Attitudes toward treating depression [letter; comment] Ebell M. **J Fam Pract** 1997 Jun;44(6):523. Comment on: J Fam Pract 1997 Feb;44(2):161–8.
How important are clinician and nurse attitudes to the delivery of clinical preventive services? [see comments] Solberg LI, et al. **J Fam Pract** 1997 May;44(5):451–61. Comment in: J Fam Pract 1997 May;44(5):447–8.
Why isn't warfarin prescribed to patients with nonrheumatic atrial fibrillation? [see comments] Beyth RJ, et al. **J Gen Intern Med** 1996 Dec;11(12):721–8. Comment in: J Gen Intern Med 1996 Dec;11(12):768–70.
Primary care physicians and capitated reimbursement. Experience, attitudes, and predictors. Cykert S, et al. **J Gen Intern Med** 1997 Mar;12(3):192–4
Physician attitudes regarding telephone medicine. Hannis MD, et al. **J Gen Intern Med** 1996 Nov;11(11):678–83
Should we just let the anticoagulation service do it? The conundrum of anticoagulation for atrial fibrillation [editorial; comment] [see comments] Matchar DB, et al. **J Gen Intern Med** 1996 Dec;11(12):768–70. Comment on: J Gen Intern Med 1996 Dec;11(12):713–20. Comment on: J Gen Intern Med 1996 Dec;11(12):721–8. Comment in: J Gen Intern Med 1997 Apr;12(4):258–9.
Do internists and emergency physicians agree on the appropriateness of emergency department visits? O'Brien GM, et al. **J Gen Intern Med** 1997 Mar;12(3):188–91
Why should I live in pain? Rifkin WD. **J Gen Intern Med** 1997 Jun;12(6):372–3
The annual guide to "America's best hospitals". Evidence of influence among health care leaders [see comments] Rosenthal GE, et al. **J Gen Intern Med** 1996 Jun; 11(6):366–9. Comment in: J Gen Intern Med 1996 Sep;11(9):569–70.
Physician perspectives on the ethical aspects of disability determination [see comments] Zinn W, et al. **J Gen Intern Med** 1996 Sep;11(9):525–32. Comment in: J Gen Intern Med 1996 Sep;11(9):565–6.
Informatics: a physician's view. Welsh F. **J Health Care Finance** 1997 Spring;23(3):37–43 (17 ref.)
African American administrators in community/migrant health centers. Glover SH, et al. **J Health Care Poor Underserved** 1997 May;8(2):153–69
Physicians' perceptions of commercial and Medicaid managed care plans: a comparison. Silverstein G. **J Health Polit Policy Law** 1997 Feb;22(1):5–21
Some contributions from the social system to gender inequalities in heart disease [published erratum appears in J Health Soc Behav 1996 Jun;37(2):preceding 121] McKinlay JB. **J Health Soc Behav** 1996 Mar;37(1):1–26 (102 ref.)
Medicine and the Canadian state: from the politics of conflict to the politics of accommodation? Williams AP, et al. **J Health Soc Behav** 1995 Dec;36(4):303–21
American physicians and sex research and expertise, 1900–1990. Bullough VL. **J Hist Med Allied Sci** 1997 Apr; 52(2):236–53
American attitudes toward the germ theory of disease: Phyllis Allen Richmond revisited [see comments] Tomes NJ. **J Hist Med Allied Sci** 1997 Jan;52(1):17–50. Comment in: J Hist Med Allied Sci 1997 Jan;52(1):7–16.
Doctors' attitudes towards the detection and treatment of hypertension in older people. Duggan S, et al. **J Hum Hypertens** 1997 May;11(5):271–6
The effects of experience and sexual abuse training on the attitudes of learning disability staff. Hames A. **J Intellect Disabil Res** 1996 Dec;40 (Pt 6):544–9
Do–not–resuscitate orders—should the patient be informed? Löfmark R, et al. **J Intern Med** 1997 May;241(5):421–5
Against nonscientific treatments [editorial] Lerner IJ. **J Lab Clin Med** 1996 Mar;127(3):242–3
Chiropractic radiologists: a survey of chiropractors' attitudes and patterns of use. Harger BL, et al. **J Manipulative Physiol Ther** 1997 Jun;20(5):311–4
Chiropractic student attitudes toward radiology. Marchiori DM. **J Manipulative Physiol Ther** 1996 Nov–Dec; 19(9):583–6
Research attitudes among chiropractic college students. Zhang JQ. **J Manipulative Physiol Ther** 1996 Sep; 19(7):446–53
The ethics of Soviet medical practice: behaviours and attitudes of physicians in Soviet Estonia. Barr DA. **J Med Ethics** 1996 Feb;22(1):33–40
Should doctors inform terminally ill patients? The opinions of nationals and doctors in the United Arab Emirates. Harrison A, et al. **J Med Ethics** 1997 Apr;23(2):101–7
The views of members of Local Research Ethics Committees, researchers and members of the public towards the roles and functions of LRECs. Kent G. **J Med Ethics** 1997 Jun; 23(3):186–90
Partial and impartial ethical reasoning in health care professionals. Kuhse H, et al. **J Med Ethics** 1997 Aug; 23(4):226–32
Physician clinical communication systems—an Australian perspective. Soliman F, et al. **J Med Syst** 1997 Apr; 21(2):99–106
Managed care backlash [editorial] England LE. **J Miss State Med Assoc** 1997 Mar;38(3):91
Breast and cervical carcinoma screening services: physicians' perceptions of need. Scott–Conner CE, et al. **J Miss State Med Assoc** 1996 Nov;37(11):809–15
Losses [editorial] South D. **J Miss State Med Assoc** 1996 Nov;37(11):825–6
Neuroscience nurses' intentions to care for persons with HIV/AIDS. DiIorio C. **J Neurosci Nurs** 1997 Feb; 29(1):50–5
Registered nurse role changes and satisfaction with unlicensed assistive personnel. Barter M, et al. **J Nurs Adm** 1997 Jan;27(1):29–38
Preparing to change from acute to community–based care. Learning needs of hospital–based nurses. Bryan YE, et al. **J Nurs Adm** 1997 May;27(5):35–44
Research–based planning for change: assessing nurses' attitudes toward governance and professional practice autonomy after hospital acquisition. George VM, et al. **J Nurs Adm** 1997 May;27(5):53–61
The development of students' perceptions of effective teaching: the ideal, best and poorest clinical teacher in nursing. Benor DE, et al. **J Nurs Educ** 1997 May; 36(5):206–11
The preceptor model of clinical instruction: the lived experiences of students, preceptors, and faculty–of–record. Nehls N, et al. **J Nurs Educ** 1997 May;36(5):220–7
Differences in stress and challenge in clinical practice among ADN and BSN students in varying clinical courses. Oermann MH, et al. **J Nurs Educ** 1997 May;36(5):228–33
Nurse–midwives' attitudes toward abortion performance and related procedures [letter] Glenn PS. **J Nurse Midwifery** 1996 Jan–Feb;41(1):55–6
Professional resistance to managed care in Oklahoma: an issue of quality. Perry R, et al. **J Okla State Med Assoc** 1997 Jul–Aug;90(6):236–42
Recognition of the scope of oral and maxillofacial surgery by the public and health care professionals. Hunter MJ, et al. **J Oral Maxillofac Surg** 1996 Oct;54(10):1227–32; discussion 1233
Shortened dental arch therapy: views of consultants in restorative dentistry in the United Kingdom. Allen PF, et al. **J Oral Rehabil** 1996 Jul;23(7):481–5
Dentists' attitudes to the shortened dental arch concept. Witter DJ, et al. **J Oral Rehabil** 1997 Feb;24(2):143–7
Attitudes of physical therapists who possess sports specialist certification. Ellison J, et al. **J Orthop Sports Phys Ther** 1997 Jun;25(6):400–6
Clinicians' attitudes about prolonged use of opioids and the issue of patient heterogeneity. Turk DC. **J Pain Symptom Manage** 1996 Apr;11(4):218–30 (51 ref.)
Challenges in identifying children for palliative care. Davies B, et al. **J Palliat Care** 1996 Autumn;12(3):5–8
Physician perspectives on unconventional cancer therapies. Gray RE, et al. **J Palliat Care** 1997 Summer;13(2):14–21
The management of terminal illness: opinions of the medical and nursing staff in a Paris University Hospital. Vidal–Trécan G, et al. **J Palliat Care** 1997 Spring; 13(1):40–7
Nurses' practices and perceptions of family–centered care. Bruce B, et al. **J Pediatr Nurs** 1997 Aug;12(4):214–22
Do nurses and parents of children with chronic conditions agree on parental needs? Graves C, et al. **J Pediatr Nurs** 1996 Oct;11(5):288–99
Swedish Health care personnel's perceptions of disease and treatment–related problems experienced by children with cancer and their families. Enskar K, et al. **J Pediatr Oncol Nurs** 1996 Apr;13(2):61–70; discussion 71
Physician opinions of preterm infant outcome and their effect on antenatal corticosteroid use. Gardner MO, et al. **J Perinatol** 1996 Nov–Dec;16(6):431–4
A comparison of practice domains of clinical nurse specialists and nurse practitioners. Lindeke LL, et al. **J Prof Nurs** 1997 Sep–Oct;13(5):281–7
A survey of temporomandibular disorder conducted by the Greater New York Academy of Prosthodontics. Arbree NS, et al. **J Prosthet Dent** 1995 Nov;74(5):512–6
Program administrator and medical staff attitudes toward six hypothetical medications for substance abuse treatment. Finn P. **J Psychoactive Drugs** 1996 Apr–Jun;28(2):161–8
Mental illness—treatable illness [letter; comment] **J Psychosoc Nurs Ment Health Serv** 1997 May;35(5):9–10 . Comment on: J Psychosoc Nurs Ment Health Serv 1997 Feb;35(2):3–4.
The undertreatment of anxiety: overcoming the confusion and stigma. Blair DT, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Jun;34(6):9–18 (72 ref.)
Nursing research 'down under'. Deans C, et al. **J Psychosoc Nurs Ment Health Serv** 1997 Feb;35(2):25–31
Menopause a life stage, not an illness [letter; comment] Faley M. **J Psychosoc Nurs Ment Health Serv** 1997 May; 35(5):10–1. Comment on: J Psychosoc Nurs Ment Health Serv 1997 Feb;35(2):36–9.
Bridging the chasm: incorporating the medically compromised patient into psychiatric practice. Krch–Cole E, et al. **J Psychosoc Nurs Ment Health Serv** 1997 May; 35(5):28–33
The effect of sexual experience on the attitudes of medical students to learning gynecological examinations. Abraham S. **J Psychosom Obstet Gynaecol** 1996 Mar;17(1):15–20
Teaching psychosomatic medicine: predictors of students' attitudes toward a compulsory course. Schüppel R, et al. **J Psychosom Res** 1997 May;42(5):481–4
Nonresponse bias in a survey of Ontario dentists' infection control and attitudes concerning HIV. McCarthy GM, et al. **J Public Health Dent** 1997 Winter;57(1):59–62
Respect: its meaning and measurement as an element of patient care. Morris NM. **J Public Health Policy** 1997; 18(2):133–54
General practitioner perceptions of surgical waiting times. Clover K, et al. **J Qual Clin Pract** 1996 Dec;16(4):195–202
A survey of general practitioners: implications for the hospital/community interface [see comments] Grimmer K, et al. **J Qual Clin Pract** 1996 Dec;16(4):185–94. Comment in: J Qual Clin Pract 1996 Dec;16(4):181–2.
Experience and training in temporary transvenous pacing [see comments] Davis GK, et al. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):432–4. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):111.
Clinical audit: time for a reappraisal? [see comments] Hopkins A. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):415–25 (92 ref.). Comment in: J R Coll Physicians Lond 1996 Nov–Dec;30(6):586. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):113. Comment in: J R Coll Physicians Lond 1997 Mar–Apr;31(2):221.
Home visits to elderly patients in Saudi Arabia. al Shammari SA. **J R Soc Health** 1997 Jun;117(3):174–9
Responding to change—or despondent and estranged? [editorial] Coni N. **J R Soc Med** 1997 Feb;90(2):61
Science versus quackery [letter; comment] De Hoff JB. **J R Soc Med** 1997 Feb;90(2):119. Comment on: J R Soc Med 1996 Oct;89(10):543–7.
Euthanasia [letter] Frölich JC. **J R Soc Med** 1997 Apr; 90(4):236
Why do young doctors leave the profession? [editorial] Paice E. **J R Soc Med** 1997 Aug;90(8):417–8
Lifestyle, Lydgate and the late twentieth century. Westwood AT. **J R Soc Med** 1997 Jan;90(1):42–3
Attitudes toward assisted suicide and euthanasia among physicians in South Carolina. Dickinson GE, et al. **J S C Med Assoc** 1996 Sep;92(9):395–9
New Jersey school nurses' perceptions of school–based, prenatal nutrition education. Janas BG, et al. **J Sch Health** 1997 Feb;67(2):62–7
Mattresses and sleep for patients with low back pain: a survey of orthopaedic surgeons. Levy H, et al. **J South Orthop Assoc** 1996 Fall;5(3):185–7
Acceptability of the controlled–drinking goal among alcohol treatment agencies in New South Wales, Australia. Donovan M, et al. **J Stud Alcohol** 1997 May;58(3):253–6
Acceptance of moderate drinking by alcoholism treatment services in Canada. Rosenberg H, et al. **J Stud Alcohol** 1996 Sep;57(5):559–62
Are all health plans created equal? The physician's view. Borowsky SJ, et al. **JAMA** 1997 Sep 17;278(11):917–21
Primary care physicians' satisfaction with quality of care in California capitated medical groups. Kerr EA, et al. **JAMA** 1997 Jul 23–30;278(4):308–12
Calibrating the physician. Personal awareness and effective patient care. Working Group on Promoting Physician Personal Awareness, American Academy on Physician and Patient. Novack DH, et al. **JAMA** 1997 Aug 13; 278(6):502–9
Measuring seriousness of hospital quality of care issues. Sales A, et al. **Jt Comm J Qual Improv** 1996 Dec;22(12):811–6
Preoperative testing for HIV: a survey of surgeons' attitudes and practices [letter] Danziger R, et al. **Lancet** 1996 Oct 12;348(9033):1036–7
The language of persuasion versus the voice of reason [letter] Denic S, et al. **Lancet** 1996 Nov 2;348(9036):1245
Euthanasia and palliative care: a pseudoconflict? Herxheimer A. **Lancet** 1996 Nov 2;348(9036):1187–8
Readers' evaluation of effect of peer review and editing on quality of articles in the Nederlands Tijdschrift voor

Geneeskunde. Pierie JP, et al. **Lancet** 1996 Nov 30; 348(9040):1480–3

"I actually don't mind the bone saw": narratives of gross anatomy. Reifler DR. **Lit Med** 1996 Fall;15(2):183–99

The physician as witness: a response. Tal K. **Lit Med** 1996 Fall;15(2):217–20

Attitudes and clinical practice of Italian gynecologists towards prophylactic oophorectomy during hysterectomy for benign conditions. Mezzopane R, et al. **Maturitas** 1996 Jul;24(3):157–9

Transforming "body parts" into therapeutic tools: a report from Germany. Hogle LF. **Med Anthropol Q** 1996 Dec; 10(4):675–82

Development and psychometric properties of the Ethics Environment Questionnaire. McDaniel C. **Med Care** 1997 Sep;35(9):901–14

Physicians' judgments of the risks of cardiac procedures. Differences between cardiologists and other internists. Poses RM, et al. **Med Care** 1997 Jun;35(6):603–17

Is experience a good teacher? How interns and attending physicians understand patients' choices for end-of-life care. SUPPORT Investigators. Study to Understand Prognoses and Preferences for Outcomes and Risks of Treatments. Wilson IB, et al. **Med Decis Making** 1997 Apr–Jun; 17(2):217–27

The Medical Student Expectation Scale (MSES): a device for measuring students' expectations of each others' values and behaviours. Singleton AF, et al. **Med Educ** 1996 May; 30(3):187–94

Psychiatric residents' attitudes toward a strike at a psychiatric facility. Kohn R, et al. **Med Health R I** 1997 Feb;80(2):54–7

Medical students and managed care: one school's experience. Noritz GH. **Med Health R I** 1997 Feb;80(2):57–60

Assessing staff attitudes towards information security in a European healthcare establishment. Furnell SM, et al. **Med Inf (Lond)** 1996 Apr–Jun;21(2):105–12

Treatment decision-making at the end of life: a survey of Australian doctors' attitudes towards patients' wishes and euthanasia [letter; comment] Ballis PH, et al. **Med J Aust** 1997 May 19;166(10):562; discussion 562–3. Comment on: Med J Aust 1996 Nov 18;165(10):540–4.

If this vaccine can prevent AIDS why is it not being used? [editorial] Clancy RL, et al. **Med J Aust** 1996 Nov 18; 165(10):539

Clinical practice guidelines in general practice: a national survey of recall, attitudes and impact [see comments] Gupta L, et al. **Med J Aust** 1997 Jan 20;166(2):69–72. Comment in: Med J Aust 1997 Jan 20;166(2):62.

Universal precautions: attitudes of Australian and New Zealand [letter] Horan B. **Med J Aust** 1997 May 19; 166(10):566; discussion 566–7

The GP-hospital interface: attitudes of general practitioners to tertiary teaching hospitals. Isaac DR, et al. **Med J Aust** 1997 Jan 6;166(1):9–12

Universal precautions and anaesthetists: time for a rethink? [comment] Kerridge RK. **Med J Aust** 1997 Feb 3; 166(3):142. Comment on: Med J Aust 1997 Feb 3;166(3):138–40.

Universal precautions: attitudes of Australian and New Zealand anaesthetists [letter] Kolawole HM. **Med J Aust** 1997 May 19;166(10):566

Health service reform: the perceptions of medical specialists in Australia (New South Wales), the United Kingdom and New Zealand [see comments] Perkins RJ, et al. **Med J Aust** 1997 Aug 18;167(4):201–4. Comment in: Med J Aust 1997 Aug 18;167(4):184–5.

Universal precautions and anaesthetists: personalising the message [comment] Phillips GD. **Med J Aust** 1997 Feb 3;166(3):141. Comment on: Med J Aust 1997 Feb 3;166(3):138–40.

Universal precautions: attitudes of Australian and New Zealand anaesthetists [see comments] Richards MJ, et al. **Med J Aust** 1997 Feb 3;166(3):138–40. Comment in: Med J Aust 1997 Feb 3;166(3):141. Comment in: Med J Aust 1997 Feb 3;166(3):142.

End-of-life decision-making: community and medical practitioners' perspectives. Steinberg MA, et al. **Med J Aust** 1997 Feb 3;166(3):131–5

Treatment decision-making at the end of life: a survey of Australian doctors' attitudes towards patients' wishes and euthanasia [see comments] Waddell C, et al. **Med J Aust** 1996 Nov 18;165(10):540–4. Comment in: Med J Aust 1996 Nov 18;165(10):535–6. Comment in: Med J Aust 1997 May 19;166(10):562; discussion 562–3.

Crying in hospitals: a survey of doctors', nurses' and medical students' experience and attitudes. Wagner RE, et al. **Med J Aust** 1997 Jan 6;166(1):13–6

Treatment decision-making at the end of life: a survey of Australian doctors' attitudes towards patients' wishes and euthanasia [letter] Zalcberg JR. **Med J Aust** 1997 May 19; 166(10):562; discussion 562–3

Therapeutic jurisprudence and end-of-life medical care: physician perceptions of a statute's impact. Kapp MB. **Med Law** 1996;15(2):201–17

Medical conditions & driving: legal requirements & approach of neurologists. Mclachlan RS. **Med Law** 1997;16(2):269–75

The views of psychiatric patients and their treating physicians of court-ordered compulsory hospitalization for criminal acts. Melamed Y, et al. **Med Law** 1997;16(1):97–109

Attitudes of community-living staff members toward persons with mental retardation, mental illness, and dual diagnosis. Henry D, et al. **Ment Retard** 1996 Dec;34(6):367–79

Flying blind on purpose? Thoughts on the banishment of developmental theories from clinical settings. Mitchell S. **Ment Retard** 1997 Apr;35(2):141–3

Attitudes of community pharmacists, university-based pharmacists, and students toward on-line information resources. Shumway JM, et al. **Methods Inf Med** 1996 Jun; 35(2):142–7

Physicians speak out on outcomes measurement. Bouffard K. **Mich Med** 1996 Feb;95(2):32–3

Lawsuits can rob us of careers. Take steps to protect yourself. Constan LL. **Mich Med** 1996 Jan;95(1):22

Navy health care provider attitudes and practices concerning patient tobacco use. Conway TL, et al. **Mil Med** 1996 Sep; 161(9):510–20

Attitudes of Army nurses toward African American and Hispanic patients. Joseph HJ. **Mil Med** 1997 Feb; 162(2):96–100

Physician responses to global physician expenditure budgets in Canada: a common property perspective. Hurley J, et al. **Milbank Q** 1997;75(3):343–64

Physicians give MMA high ratings. Dombrosk S. **Minn Med** 1997 May;80(5):19–20

A need for options [letter] Dorsen PJ. **Minn Med** 1996 Dec; 79(12):43

Hats off to Dr. Struve's ideas for approaching unwanted pregnancy [letter] Howard TE. **Minn Med** 1996 Dec; 79(12):6

A lesson in AIDS education. Kakarlapudi V. **Mo Med** 1997 Apr;94(4):163

Organ donor card use by trauma and transplant center personnel. Shapiro MJ, et al. **Mo Med** 1997 May; 94(5):205–7

"Times are changin'" [editorial] Thomas JR. **Mo Med** 1996 Nov;93(11):678–9

Taking sides. Can we reach middle ground in a managed care system? Hill JE Jr. **N C Med J** 1997 May–Jun; 58(3):182–4; discussion 184–5

Should we test women for inherited susceptibility to breast cancer? what do NC primary care physicians think. O'Malley MS, et al. **N C Med J** 1997 May–Jun;58(3):176–80

Physician-assisted suicide and patients with human immunodeficiency virus disease [see comments] Slome LR, et al. **N Engl J Med** 1997 Feb 6;336(6):417–21. Comment in: N Engl J Med 1997 Jul 3;337(1):56.

Can we manage pain? Cornell DH. **N J Med** 1997 May; 94(5):41–4

Working with AIDS patients [letter] Gauch RR. **N J Med** 1997 Mar;94(3):8

The several faces of commitment. Albert SB, et al. **N Y State Dent J** 1996 Mar;62(3):54–8

A longitudinal study of the attitudes of the dental profession towards competition and advertising. Fay M, et al. **N Z Dent J** 1997 Mar;93(411):10–3

Screening for colorectal cancer: a survey of New Zealand general practitioners. Berry S, et al. **N Z Med J** 1996 Nov 22;109(1034):447–9

A survey of New Zealand psychiatrists' clinical experience with the Mental Health (Compulsory Assessment and Treatment) Act of 1992. Currier GW. **N Z Med J** 1997 Jan 24;110(1036):6–9

Survey of Waikato medical practitioners concerning cardiac pacing. Devlin GP, et al. **N Z Med J** 1996 Nov 22; 109(1034):444–7

General practitioners' opinions of continence care training. Dovey S, et al. **N Z Med J** 1996 Sep 13;109(1029):340–3

Medicine on the margins: perspectives of abortion operating surgeons in southern New Zealand. Haslett L, et al. **N Z Med J** 1997 Jul 11;110(1047):256–8

New Zealand general practice computerisation; attitudes and reported behaviour. Thakurdas P, et al. **N Z Med J** 1996 Nov 8;109(1033):419–22

Attitudes of US neurologists concerning the ethical dimensions of managed care. Bernat JL, et al. **Neurology** 1997 Jul;49(1):4–13

Workplace violence in a psychiatric facility: estimated frequency and staff perceptions. Shazer TD. **New Dir Ment Health Serv** 1996 Spring;(69):67–71

From limbo to legitimacy: a theoretical model of the transition to the primary care nurse practitioner role. Brown MA, et al. **Nurs Res** 1997 Jan–Feb;46(1):46–51

Development of an instrument to measure the cognitive structure used to understand personhood in patients. Olsen DP. **Nurs Res** 1997 Mar–Apr;46(2):78–84

Need more education about NP role [letter; comment] Rakers C. **Nurse Pract** 1996 Dec;21(12 Pt 1):8. Comment on: Nurse Pract 1996 Aug;21(8):13–5.

A profile of directors of clerkships in obstetrics and gynecology in the United States and Canada. Magrane DM, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):785–9

Attitudes of obstetrician-gynecologists toward DNA testing for a genetic susceptibility to breast cancer. Rowley PT, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):611–5

Obstetrician-gynecologists as primary care physicians: the perspectives of health maintenance organization medical directors and obstetrician-gynecologists. Scroggs JA, et al. **Obstet Gynecol** 1997 Aug;90(2):291–5

Blaming the victim. The psychologizing of endometriosis. Ballweg ML. **Obstet Gynecol Clin North Am** 1997 Jun; 24(2):441–53 (27 ref.)

Nurse and patient satisfaction with three types of venous access devices. Dearborn P, et al. **Oncol Nurs Forum** 1997 Jan–Feb;24(1 Suppl):34–40 (47 ref.)

The effect of death education on attitudes of hospital nurses toward care of the dying. Hainsworth DS. **Oncol Nurs Forum** 1996 Jul;23(6):963–7

The oncology nursing image: lifting the mist. Krebs LU, et al. **Oncol Nurs Forum** 1996 Sep;23(8):1297–304

DNA data could spawn 'genetic underclass,' says VA physician. **Oncology (Huntingt)** 1997 Mar;11(3):366

Attitude towards smoking and oral cancer prevention among northern Italian dentists. Lodi G, et al. **Oral Oncol** 1997 Mar;33(2):100–4

National survey of endodontists and selected patient samples: infectious diseases and attitudes toward infection control. Cohen AS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):696–702

The hummer: a remedy for apprehension in functional endoscopic sinus surgery. Setliff RC 3d. **Otolaryngol Clin North Am** 1996 Feb;29(1):95–104

Regaining control. With knowledge comes responsibility. Boyer MM, et al. **Pa Med** 1996 Dec;99(12):20–2

Patients deserve a graceful exit [letter; comment] Silverman JS. **Pa Med** 1997 Apr;100(4):4. Comment on: Pa Med 1996 Dec;99(12):34–7.

How do members of an interprofessional clinical team adjust to hospice care? Fisher M. **Palliat Med** 1996 Oct; 10(4):319–28

Perceptions of a 'good' death: a comparative study of the views of hospice staff and patients. Payne SA, et al. **Palliat Med** 1996 Oct;10(4):307–12

Attitudes and views of physicians and nurses towards cancer patients dying at home. Porta M, et al. **Palliat Med** 1997 Mar;11(2):116–26

A survey of the American Academy of Pediatric Dentistry membership: infant oral health care. Erickson PR, et al. **Pediatr Dent** 1997 Jan–Feb;19(1):17–21

Texas pediatric dentists' attitudes toward practice issues and the role of the component society. Kendrick AG, et al. **Pediatr Dent** 1996 Nov–Dec;18(7):433–9

We can do more--a "caring" profession--not yet [letter; comment] [see comments] Whittaker JA. **Pediatr Dent** 1997 Mar–Apr;19(2):90. Comment on: Pediatr Dent 1992 May–Jun;14(3):148–9. Comment on: Pediatr Dent 1993 May–Jun;15(3):175–81. Comment on: Pediatr Dent 1996 Mar–Apr;18(2):152–3. Comment in: Pediatr Dent 1997 May–Jun;19(4):245.

Views of pediatric emergency fellows and fellowship directors concerning training experiences in child abuse and neglect. Biehler JL, et al. **Pediatr Emerg Care** 1996 Oct;12(5):365–9

Confidence in performance of pediatric emergency medicine procedures by community emergency practitioners. Simon HK, et al. **Pediatr Emerg Care** 1996 Oct;12(5):336–9

Pain and pain management in newborn infants: a survey of physicians and nurses. Porter FL, et al. **Pediatrics** 1997 Oct;100(4):626–32

The influence of provider behavior, parental characteristics, and a public policy initiative on the immunization status of children followed by private pediatricians: a study from Pediatric Research in Office Settings. Taylor JA, et al. **Pediatrics** 1997 Feb;99(2):209–15

Michigan physicians' perceptions of their role in managing obesity. Pratt CA, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):848–50

The treatment of octogenarians [letter; comment] Caporale N. **Perit Dial Int** 1996 Nov–Dec;16(6):649. Comment on: Perit Dial Int 1996 May–Jun;16(3):241–2.

Confusion, fear, and chauvinism: perspectives on the medical sociology of chronic pain. Bilkey WJ. **Perspect Biol Med** 1996 Winter;39(2):270–80

Attitudes to adverse drug reaction reporting by medical practitioners in a Northern Italian district. Cosentino M, et al. **Pharmacol Res** 1997 Feb;35(2):85–8

Do not go gently [see comments] Sandquist MA. **Pharos** 1996 Fall;59(4):14–7. Comment in: Pharos 1997 Winter;60(1):39.

Attitudes toward standardized data collection. Russek L, et al. **Phys Ther** 1997 Jul;77(7):714–29

Geographical challenges for physical therapy continuing education: preferences and influences. Tassone MR, et al. **Phys Ther** 1997 Mar;77(3):285–95

The identification of ethical issues in physical therapy practice. Triezenberg HL. **Phys Ther** 1996 Oct; 76(10):1097–107; discussion 1107–8

Redefining 'doing something': health professionals' views on their role in the care of stroke patients. Pound P, et al. **Physiother Res Int** 1997;2(2):12–28

Physical therapists' perceptions of family involvement in the rehabilitation process. Ryan NP, et al. **Physiother Res Int** 1996;1(3):159–79

Physiotherapists' use of evidence based practice: a cross-national study. Turner P, et al. **Physiother Res Int** 1997;2(1):17–29

Belief and believe: seeking scientific truths that underlie the art of physiotherapy [editorial] Wolf SL. **Physiother Res Int** 1996;1(4):iv–vi

Top 10 easy eats. A physician's bread and butter. Anderson EG. **Postgrad Med** 1996 Oct;100(4):27–8

Sibling rivalry? Two physician brothers and the accident that changed their view of the profession. Federman DG, et al. **Postgrad Med** 1997 Jul;102(1):29–32

Physician attitudes toward managing obesity: differences among six specialty groups. Kristeller JL, et al. **Prev Med** 1997 Jul–Aug;26(4):542–9

Psychiatry and physician-assisted suicide. Zaubler TS, et al. **Psychiatr Clin North Am** 1996 Sep;19(3):413-27 (59 ref.)
Determinants of mental health providers' expectations of patients' improvement. Alexander JA, et al. **Psychiatr Serv** 1997 May;48(5):671-7
Obstacles to the use of computers in British mental health services. Briscoe M. **Psychiatr Serv** 1997 Mar;48(3):329-30
Psychiatrists' responses to failure of maintenance therapy with antidepressants. Byrne S, et al. **Psychiatr Serv** 1997 Jun;48(6):835-7
Mental health clinicians' attitudes about reporting threats against the president. Coggins MH, et al. **Psychiatr Serv** 1996 Aug;47(8):832-6
Responses of direct-care paraprofessional mental health staff to hypothetical ethics violations. Dracy DL, et al. **Psychiatr Serv** 1997 Sep;48(9):1160-3
Increasing staff knowledge of and improving attitudes toward patients with borderline personality disorder. Miller SA, et al. **Psychiatr Serv** 1996 May;47(5):533-5
Family burden of schizophrenia and bipolar disorder: perceptions of relatives and professionals. Mueser KT, et al. **Psychiatr Serv** 1996 May;47(5):507-11
The psychiatrist's role as medical director: task distributions and job satisfaction. Ranz J, et al. **Psychiatr Serv** 1997 Jul; 48(7):915-20
Homeless mentally ill clients' and providers' perceptions of service needs and clients' use of services. Rosenheck R, et al. **Psychiatr Serv** 1997 Mar;48(3):381-6
A survey of state and VA policies on psychiatrists as primary care providers. Silberman EK. **Psychiatr Serv** 1997 Jul; 48(7):946-7
Must managed care dominate the scene? [editorial] Talbott JA. **Psychiatr Serv** 1996 May;47(5):455
Medication backup: attitudes and practices of psychiatrists and residents. Weiner HK, et al. **Psychiatr Serv** 1997 Apr; 48(4):536-8
The impact of organizational factors on mental health professionals' involvement with families. Wright ER. **Psychiatr Serv** 1997 Jul;48(7):921-7
The Professional Self-esteem of Physicians Scale, structure, properties, and the relationship to work outcomes and life satisfaction. Carmel S. **Psychol Rep** 1997 Apr;80(2):591-602
Reactions to managed care among psychologists and social workers. Chambliss C, et al. **Psychol Rep** 1997 Feb; 80(1):147-54
Counselors' adjective correlates of working alliance. Dykeman C, et al. **Psychol Rep** 1996 Apr;78(2):563-70
Gender differences in attitudes and recruitment into psychiatry [comment] Eagles JM. **Psychol Rep** 1996 Apr; 78(2):653-4. Comment on: Psychol Rep 1995 Dec;77(3 Pt 1):843-7.
Attitudes and observations about nonverbal communication in the psychotherapeutic greeting situation. Flemmer DD, et al. **Psychol Rep** 1996 Apr;78(2):407-18
Students' perception of a difficult case in psychotherapy. Linares SA, et al. **Psychol Rep** 1997 Aug;81(1):67-75
Clients and therapists confidence and attendance at planned individual therapy sessions. McGuff R, et al. **Psychol Rep** 1996 Oct;79(2):537-8
Self-esteem and caregivers' attitudes toward elderly persons. Merrill JM, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1349-50
Prescription privileges: a dearth of confidence in psychological interventions [see comments] Piotrowski C. **Psychol Rep** 1996 Apr;78(2):362. Comment in: Psychol Rep 1996 Feb;78(1):288-90.
Performance on the Facts on aging Quiz 2 by undergraduate and graduate students in communicative disorders. Pulliam S, et al. **Psychol Rep** 1996 Feb;78(1):66
Soundness of treatment: a survey of psychologists' opinions [see comments] Starker S, et al. **Psychol Rep** 1996 Feb; 78(1):288-90. Comment in: Psychol Rep 1996 Apr;78(2):362.
Test-retest reliability of the participative decision-making scale for student nurses. Wilson A, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):825-6
A preliminary survey of oncologists' perceptions of quality of life information. Bezjak A, et al. **Psychooncology** 1997 Jun;6(2):107-13
Psychological aspects of cancer surgery: surgeons' attitudes and opinions. Burton MV, et al. **Psychooncology** 1997 Mar; 6(1):47-64
Experimenter expectancy in resistance to respiratory air flow. Wigal JK, et al. **Psychosom Med** 1997 May-Jun; 59(3):318-22
Physicians' view of their work environment and organisation. Arnetz BB. **Psychother Psychosom** 1997;66(3):155-62
Fit for the future? A role for health professionals in housing management. Easterlow D, et al. **Public Health** 1997 May; 111(3):171-8
HIV/AIDS infection control enforcement: a comparison between Nigeria and the United States [see comments] Essien EJ, et al. **Public Health** 1997 Jul;111(4):205-9. Comment in: Public Health 1997 Jul;111(4):199.
What impact do annual public health reports have? Fulop N, et al. **Public Health** 1996 Sep;110(5):307-11
Smoking among hospital doctors in Israel and their attitudes regarding anti-smoking legislation. Samuels N. **Public Health** 1997 Sep;111(5):285-8
Health at work [editorial; comment] Slack RC. **Public Health** 1997 Jul;111(4):199. Comment on: Public Health 1997 Jul;111(4):205-9.
Field-workers' sense of coherence and perception of risk when making home visits. George VD. **Public Health Nurs** 1996 Aug;13(4):244-52
The value of community health nursing: a phenomenological study of the perceptions of community health nurses. Leipert BD. **Public Health Nurs** 1996 Feb;13(1):50-7
Randomized trials with quality of life endpoints: are doctors' ratings of patients' physical symptoms interchangeable with patients' self-ratings? Stephens RJ, et al. **Qual Life Res** 1997 Apr;6(3):225-36
Nurses' and resident physicians' perceptions of the process of collaboration in an MICU. Baggs JG, et al. **Res Nurs Health** 1997 Feb;20(1):71-80
Further validation of the AIDS Attitude Scale. Froman RD, et al. **Res Nurs Health** 1997 Apr;20(2):161-7
Effects of family structure information on nurses' impression formation and verbal responses. Ganong LH, et al. **Res Nurs Health** 1997 Apr;20(2):139-51
Diversity of opinions on the management of gout in France. A survey of 750 rheumatologists. Rozenberg S, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):255-61
Staff knowledge, attitudes and practices in public sector primary care of diabetes in Cape Town. Goodman GR, et al. **S Afr Med J** 1997 Mar;87(3):305-9
Abortion legislation [letter] [see comments] Hardy W, et al. **S Afr Med J** 1996 Nov;86(11):1433. Comment in: S Afr Med J 1997 Jan;87(1):74-5.
Abortion legislation [letter] Horsfall CG, et al. **S Afr Med J** 1996 Nov;86(11):1433-4
Health personnel needs and attitudes to rural service in KwaZulu-Natal. Sankar U, et al. **S Afr Med J** 1997 Mar; 87(3):293-8
Herpes zoster--results from a questionnaire-based surveillance of patients and their general practitioners [letter] Schoub BD, et al. **S Afr Med J** 1996 Dec; 86(12):1562-3
Abortion objectors--rights and responsibilities [letter] Ward H. **S Afr Med J** 1997 Jul;87(7):910
On-call perspective [editorial] Freeman JW. **S D J Med** 1996 Apr;49(4):117
Concern about the environment among medical students. Käsmä-Ronkainen L, et al. **Scand J Soc Med** 1996 Jun; 24(2):121-3
Ethics and the geography of the nurse-patient relationship: spatial vulnerable and gendered space. Piaschenko J. **Sch Inq Nurs Pract** 1997 Spring;11(1):45-59; discussion 61-3
Epilepsy management: the general practitioner's perspective. Averis AK. **Seizure** 1997 Apr;6(2):81-5
Patients' and referring doctors' perceptions of treatment on an in-patient neuropsychiatry/epilepsy unit: a study of three cohorts. Goldstein LH, et al. **Seizure** 1997 Feb; 6(1):13-20
Advance directive: a study on the knowledge and attitudes among general practitioners in Singapore. Tee KH, et al. **Singapore Med J** 1997 Apr;38(4):145-8
Influence of a 3-week psychiatric training programme on attitudes toward mental illness in medical students. Arkar H, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 Apr; 32(3):171-6
Young doctors' health--I. How do working conditions affect attitudes, health and performance? Baldwin PJ, et al. **Soc Sci Med** 1997 Jul;45(1):35-40
Nonconventional medicine in Israel: consultation patterns of the Israeli population and attitudes of primary care physicians. Bernstein JH, et al. **Soc Sci Med** 1997 May; 44(9):1341-8
Female and male physicians' attitudes toward prenatal diagnosis: a Pan-Canadian survey. Bouchard L, et al. **Soc Sci Med** 1997 Feb;44(3):381-92
Stress, satisfaction and militancy among Canadian physicians: a longitudinal investigation. Burke RJ. **Soc Sci Med** 1996 Aug;43(4):517-24
Child protection or professional self-preservation by the baby nurses? Public health nurses and child protection in Ireland. Butler S. **Soc Sci Med** 1996 Aug;43(3):303-14
Women physicians in Quebec. De Koninck M, et al. **Soc Sci Med** 1997 Jun;44(12):1825-32
Patients' and professionals' understandings of the causes of chronic pain: blame, responsibility and identity protection. Eccleston C, et al. **Soc Sci Med** 1997 Sep;45(5):699-709
Doctors' perceptions of the links between stress and lowered clinical care. Firth-Cozens J, et al. **Soc Sci Med** 1997 Apr; 44(7):1017-22
Physicians' view of practice guidelines. A survey of Italian physicians. Grilli R, et al. **Soc Sci Med** 1996 Oct; 43(8):1283-7
"Ruling in" and "ruling out": two approaches to the micro-rationing of health care. Hughes D, et al. **Soc Sci Med** 1997 Mar;44(5):589-99
Processing the tort deterrent signal: a qualitative study. Hupert N, et al. **Soc Sci Med** 1996 Jul;43(1):1-11
Dirty, diseased and undeserving: the positioning of HIV positive women. Lawless S, et al. **Soc Sci Med** 1996 Nov; 43(9):1371-7
Politicizing abortion: personal morality and professional responsibility of residents training in the United States. Lazarus ES. **Soc Sci Med** 1997 May;44(9):1417-25
Physician location survey: self-reported and census-defined rural/urban locations. Lin GE, et al. **Soc Sci Med** 1997 Jun;44(11):1761-6
Medical professional dominance and client dissatisfaction. A study of doctor-patient interaction and reported dissatisfaction with medical care among female patients at four hospitals in Trinidad and Tobago. Phillips D. **Soc Sci Med** 1996 May;42(10):1419-25
Physician preventive care philosophy and the five year durability of a preventive services office system. Rebelsky MS, et al. **Soc Sci Med** 1996 Oct;43(7):1073-81
Responses of mental health professionals to man-made trauma: the Israeli experience. Solomon Z. **Soc Sci Med** 1996 Sep;43(5):769-74
Climacteric hormone therapy in medical and lay texts in Finland from 1955 to 1992. Topo P. **Soc Sci Med** 1997 Sep;45(5):751-60
When social workers and physicians collaborate: positive and negative interdisciplinary experiences. Abramson JS, et al. **Soc Work** 1996 May;41(3):270-81
Homophobia and heterosexism in social workers. Berkman CS, et al. **Soc Work** 1997 Jul;42(4):319-32
The strengths perspective in social work practice: extensions and cautions. Saleebey D. **Soc Work** 1996 May; 41(3):296-305 (55 ref.)
"Things were different then": countertransference issues for younger female therapists working with older female clients. Levine L. **Soc Work Health Care** 1996;22(4):73-88 (20 ref.)
A comparison of transplant patient and social worker attitudes in regard to transplant patient psychosocial selection criteria, role expectations and communication style. Paris W, et al. **Soc Work Health Care** 1996; 23(1):39-52
The relationship between therapeutic termination and job satisfaction among medical social workers. Resnick C, et al. **Soc Work Health Care** 1996;23(3):17-33
Marijuana to prevent nausea and vomiting in cancer patients: a survey of clinical oncologists. Schwartz RH, et al. **South Med J** 1997 Feb;90(2):167-72
Measuring and comparing the attitudes and beliefs of staff working in New York methadone maintenance clinics. Caplehorn JR, et al. **Subst Use Misuse** 1997 Mar; 32(4):399-413
Clinical-based vs insurance-based recommendations for substance abuse treatment level. Gondolf E, et al. **Subst Use Misuse** 1996 Jul;31(9):1101-16
Report of the Committee on Physician-Assisted Suicide and Euthanasia. Committee on Physician-Assisted Death of the American Association of Suicidology. **Suicide Life Threat Behav** 1996;26 Suppl:1-19
Physicians and death: comments and behaviour of 605 doctors in the north-east of Italy [see comments] Annunziata MA, et al. **Support Care Cancer** 1996 Sep; 4(5):334-40. Comment in: Support Care Cancer 1996 Sep;4(5):325.
The acceptance of decision-support systems. van Bemmel JH. **Technol Health Care** 1996 Aug;4(2):137-45 (24 ref.)
Not all bad. Physicians find managed care merits [see comments] Jones TL. **Tex Med** 1996 Feb;92(2):38-42. Comment in: Tex Med 1996 Apr;92(4):7.
Divided loyalty [see comments] Jones TL. **Tex Med** 1997 Feb;93(2):28-32. Comment in: Tex Med 1997 Apr;93(4):7.
Factors limiting renal transplantation in Poland. Rowinski WA, et al. **Transplant Proc** 1996 Dec;28(6):3413-4
Impact of European donor hospital education on the knowledge and attitudes of health professionals toward organ donation in Israel. Singer P, et al. **Transplant Proc** 1997 Sep;29(6):2640-1
Complementary medicine and oncologists' attitudes: a survey in Italy. Crocetti E, et al. **Tumori** 1996 Nov-Dec; 82(6):539-42
Attitudes of non-oncology physicians dealing with cancer patients. A survey based on clinical scenarios in Ancona province, central Italy. Piga A, et al. **Tumori** 1996 Sep-Oct; 82(5):423-9
Rabies and quarantine [letter] Mares RG. **Vet Rec** 1996 Nov 16;139(20):502
Rabies and quarantine [letter; comment] Wilde JK. **Vet Rec** 1996 Nov 16;139(20):502. Comment on: Vet Rec 1996 Nov 9;139(19):475. Comment on: Vet Rec 1996 Nov 9;139(19):475-6.
Violation in caring for the physically disabled. Lillestø B. **West J Nurs Res** 1997 Jun;19(3):282-96
Psychiatry struggles to find managed care fit. Bell H. **Wis Med J** 1996 Apr;95(4):213-7
Bob Cratchit on the couch [interview] Houghton W. **Wis Med J** 1996 Apr;95(4):229-30
Learning to ask about domestic violence. Coeling HV, et al. **Womens Health Issues** 1997 Jul-Aug;7(4):263-8
[The views and attitudes of the Clinic of Emergency Surgery of the Clinical Emergency Medical Center at the Queen Ioanna State University Hospital on the potentials of surgical endoscopy in upper digestive hemorrhages] Viiachki I, et al. **Khirurgiia (Sofiia)** 1996;49(6):5-10 (Eng. Abstr.) **(Bul)**
[Physicians' and medical students' perception of environmental risks] Grandjean P, et al. **Ugeskr Laeger** 1996 Sep 16;158(38):5291-5 (Eng. Abstr.) **(Dan)**
["Linguistitis" of medical terminology (II). Language-policy and questions from a perspective of younger physicians] Høy A. **Ugeskr Laeger** 1996 Dec 2;158(49):7079-83 (Eng. Abstr.) **(Dan)**
[The management of back problems among the population II. Therapists' and patients' perception of the disease] Lønnberg F. **Ugeskr Laeger** 1997 Apr 7;159(15):2215-21 (Eng. Abstr.) **(Dan)**

[Breaking bad news--experience and attitude of young physicians] Nielsen D, et al. **Ugeskr Laeger** 1997 May 5; 159(19):2862–6 (Eng. Abstr.) **(Dan)**

[Various opinions of family physicians and rheumatologists about the management of patients with rheumatoid arthritis (see comments)] Pollemans MC, et al. **Ned Tijdschr Geneeskd** 1996 Oct 12;140(41):2040–4 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Dec 7;140(49):2478–9. **(Dut)**

[Transfusion and Jehovah's witnesses. A review of medicosurgical attitudes in a University hospital in 1995] Gouëzec H, et al. **Ann Fr Anesth Reanim** 1996;15(7):1121–3 (Eng. Abstr.) **(Fre)**

[Nothing new for a skeptic (letter)] De Serres J. **Can Fam Physician** 1996 Jan;42:30, 32 **(Fre)**

[Health discussions on television: different types of speakers for different types of representation] Dubois L. **Can J Public Health** 1996 Jan–Feb;87(1):56–61 (Eng. Abstr.) **(Fre)**

[Relevance of general practitioner's prescriptions for hospital pharmacotherapy. A survey of hospital physicians] Himmel W, et al. **Dtsch Med Wochenschr** 1996 Nov 22; 121(47):1451–6 (Eng. Abstr.) **(Ger)**

[Hope for delaying demise] Wagner B. **Fortschr Med** 1997 Jun 10;115(16):66–9 **(Ger)**

[The biggest wish: a completely normal in vitro child] Wagner B. **Fortschr Med** 1996 Sep 30;114(27):26, 28 **(Ger)**

[Quality circles with emphasis on pharmacotherapy in North Hessia: evaluation from the viewpoint of participants] Andres E, et al. **Gesundheitswesen** 1997 Apr;59(4):262–6 (Eng. Abstr.) **(Ger)**

[Ambulatory management during the transformation process--a survey of physicians in new German districts] Heim N, et al. **Gesundheitswesen** 1997 Jan;59(1):29–35 (Eng. Abstr.) **(Ger)**

[Educational and occupational expectations of tomorrow's generation of physicians] Weber A, et al. **Gesundheitswesen** 1996 Dec;58(12):629–34 (Eng. Abstr.) **(Ger)**

[Position of the German Society of Surgery and the Professional Organization of German Surgeons on "changes in the spectrum of the health provision contract of hospitals and their effects"] Pichlmayr R, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:656–8 **(Ger)**

[Physicians' attitude in the treatment of incompetent patients. Comparison between East and West Germany] Richter J, et al. **Med Klin** 1997 May 15;92(5):255–9 (Eng. Abstr.) **(Ger)**

[Georg Büchner, ICD-10 and the physician's basic attitude] Müller-Holthusen T. **Nervenarzt** 1997 Jul;68(7):597–9 (Eng. Abstr.) **(Ger)**

[The attitude of medical students to psychiatric patients] Rössler W, et al. **Nervenarzt** 1996 Sep;67(9):757–64 (Eng. Abstr.) **(Ger)**

[2 steps forward and one back?--Response of child welfare to sexual abuse experiences of girls and boys] Rohleder C, et al. **Prax Kinderpsychol Kinderpsychiatr** 1996 Oct; 45(8):297–300 (Eng. Abstr.) **(Ger)**

[Quality of life for schizophrenic patients--that is.... Results of a survey of psychiatrists] Holzinger A, et al. **Psychiatr Prax** 1997 Mar;24(2):61–4 (Eng. Abstr.) **(Ger)**

[Autistic-undisciplined thinking in medicine and overcoming it by Eugen Bleuler] Kruse G. **Psychiatr Prax** 1996 Sep; 23(5):255–6 **(Ger)**

[Questions on organ donation. An exploratory study of medical students and overview of the literature] Strenge H. **Psychother Psychosom Med Psychol** 1996 Sep–Oct; 46(9–10):327–32 (45 ref.) (Eng. Abstr.) **(Ger)**

[Analysis of preconceived attitudes of medical personnel toward HIV positive and AIDS patients] Zuber J, et al. **Psychother Psychosom Med Psychol** 1996 Feb;46(2):52–60 (Eng. Abstr.) **(Ger)**

[Attitude of established physicians to medical rehabilitation: an empirical study of the access to rehabilitation problem] Vogel H, et al. **Rehabilitation (Stuttg)** 1997 May; 36(2):96–105 (Eng. Abstr.) **(Ger)**

[Concerning the clinical pathological conference in No.22 of PRAXIS (letter)] Häcki M. **Schweiz Rundsch Med Prax** 1996 Oct 8;85(41):1305 **(Ger)**

[Assessing the risk of HIV infection in the clinic and daily environment by medical students] Klewer J, et al. **Z Arztl Fortbild (Jena)** 1996 Jun;90(4):321–4 (Eng. Abstr.) **(Ger)**

[Continuing education seminar for general practice in the North Rhine District Medical Group. Results of of survey of participants during March to June 1995] Schwantes U. **Z Arztl Fortbild (Jena)** 1996 Aug;90(5):445–8 (Eng. Abstr.) **(Ger)**

[Graduate and continuing education from the viewpoint of Hamburg general practitioners] Steinkohl M. **Z Arztl Fortbild Qualitatssich** 1997 Feb;91(1):95–100 (Eng. Abstr.) **(Ger)**

[M.D.: medical doctor, machine doctor or manual doctor? [letter]] Sakamoto F. **J Cardiol** 1997 Apr;29(4):235–6 **(Jpn)**

[Changes in nurses' knowledge and attitudes regarding AIDS in Mie Prefecture, Japan] Hashizume E, et al. **Nippon Koshu Eisei Zasshi** 1995 Dec;42(12):1054–60 (Eng. Abstr.) **(Jpn)**

[Terminal care. III. The current status of informing cancer patients the nature of their illness: a study based on questionnaires. 3. The conditions at general hospitals] Okada S, et al. **Nippon Naika Gakkai Zasshi** 1996 Dec 10; 85(12):2053–7 **(Jpn)**

[University education in geriatrics: medical students' understandings of gerontology and geriatric medicine] Hakamata Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jun; 33(6):444–51 (Eng. Abstr.) **(Jpn)**

[Survey on physicians' attitude toward specialty certification-- report by specialty board] Takagi S, et al. **Seishin Shinkeigaku Zasshi** 1997;99(5):286–90 **(Jpn)**

[Attitudes to treatment with cytostatic agents. Do cancer patients, physicians, nurses and healthy individuals vary in their views?] Bremnes RM, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2583–7 (Eng. Abstr.) **(Nor)**

[When physicians become ill. Difficult choices] Christie VM, et al. **Tidsskr Nor Laegeforen** 1997 Apr 10;117(9):1286–9 (Eng. Abstr.) **(Nor)**

[Ending life by medical means. Do attitudes of physicians differ from those of the population?] Førde R, et al. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1135–7 (Eng. Abstr.) **(Nor)**

[Blood transfusion and Jehovah's witnesses--problems in life-threatening conditions. A questionnaire among Norwegian anesthesiologists] Meidell NK, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2795–8 (Eng. Abstr.) **(Nor)**

[The spread of harmful habits among medical students and their attitude to them] Vinogradov PB, et al. **Gig Sanit** 1996 May–Jun;(3):49–51 **(Rus)**

[Physicians and the population on the reforming of public health (based on sociological research data)] Diukareva AM, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Mar–Apr; (2):36–9 (Eng. Abstr.) **(Rus)**

[Tobacco dependence in primary care: the opinion of professionals in the Guadalajara Health Area] Alonso Gordo JM, et al. **Aten Primaria** 1997 May 15;19(8):412–7 (Eng. Abstr.) **(Spa)**

[Construction and validation of an attitude scale to primary health care] Ballesteros Pérez AM, et al. **Aten Primaria** 1996 Sep 15;18(4):168–75 (Eng. Abstr.) **(Spa)**

[The attitudes to and needs for education on HIV infection among primary care health professionals] Casabella Abrill B, et al. **Aten Primaria** 1997 May 15;19(8):395–9 (Eng. Abstr.) **(Spa)**

[Family physicians and the demand for care. An opinion poll] Loayssa Lara JR, et al. **Aten Primaria** 1997 Jun 15; 20(1):34–40 (Eng. Abstr.) **(Spa)**

[Attitudes of nursing staff in Western Málaga to HIV/AIDS infection] Molina Cabrillana J, et al. **Aten Primaria** 1997 Jun 30;20(2):65–70 (Eng. Abstr.) **(Spa)**

[Adverse drug reactions and a program of voluntary notification: an opinion survey of primary care physicians] Serrano Cózar G, et al. **Aten Primaria** 1997 Apr 15; 19(6):307–12 (Eng. Abstr.) **(Spa)**

[The physician-patient relationship and the clinical interview (II): the opinion and preferences of physicians] Torío Durántez J, et al. **Aten Primaria** 1997 Jan;19(1):27–34 (Eng. Abstr.) **(Spa)**

[Survey on Helicobacter pylori and peptic ulcer in Spain] Pajares García JM, et al. **Rev Esp Enferm Dig** 1996 Oct; 88(10):695–9 (Eng. Abstr.) **(Spa)**

[Tobacco addiction in primary health care workers in the health area number 4 of Insalud in Madrid: prevalence of consumption and attitude] Ortiz Marrón H, et al. **Rev Esp Salud Publica** 1996 May–Jun;70(3):295–302 (Eng. Abstr.) **(Spa)**

[A letter from a convalescent] Nyh E. **Lakartidningen** 1996 Nov 27;93(48):4430–1 **(Swe)**

ETHNOLOGY

Attitudes and reactions of Arab medical students to the dissecting room. Abu-Hijleh MF, et al. **Clin Anat** 1997; 10(4):272–8

Ethnic diversification in clinical psychology graduate training. Toia A, et al. **Cult Divers Ment Health** 1997; 3(3):193–206

ATTITUDE TO COMPUTERS

Attitudes of radiology residents toward personal computing: results of survey. Gay SB, et al. **Acad Radiol** 1997 Apr; 4(4):304–8

The role of computers in general practice [letter] **Aust Fam Physician** 1997 Apr;26(4):474

Seniors-on-line: introducing older people to technology. Irizarry C, et al. **Australas Phys Eng Sci Med** 1997 Mar; 20(1):39–43

Managing the human side of change to automation. Doyle K, et al. **Comput Nurs** 1997 Mar–Apr;15(2):67–8

The information technology frontier: a call for pioneers. Elfrink V. **Comput Nurs** 1996 Mar–Apr;14(2):82–3, 88

Computer attitude and computer anxiety in nursing. Validation of an instrument using an Australian sample. Jayasuriya R, et al. **Comput Nurs** 1996 Nov–Dec; 14(6):340–5

Nursing faculty concerns regarding the adoption of computer technology. Lewis D, et al. **Comput Nurs** 1997 Mar–Apr; 15(2):71–6

Attitudes of Australian nurses toward the implementation of a clinical information system. Marasovic C, et al. **Comput Nurs** 1997 Mar–Apr;15(2):91–8

Nurses' attitudes toward computerization in clinical practice in a British general hospital. Simpson G, et al. **Comput Nurs** 1997 Jan–Feb;15(1):37–42

Duration estimates and users' preferences in human-computer interaction. Meyer J, et al. **Ergonomics** 1996 Jan;39(1):46–60

The desk-top computer as a magic box: patterns of behaviour connected with the desk-top computer; GPs' and patients' perceptions. Als AB. **Fam Pract** 1997 Feb;14(1):17–23

Nurse teachers' perceptions of information technology: a study of nurse teachers in Northern Ireland. Sinclair M, et al. **J Adv Nurs** 1997 Feb;25(2):372–6

Computer experiences and attitudes of students and preceptors in distance education. Barbrow EP, et al. **J Am Diet Assoc** 1996 Dec;96(12):1280–1

Implementation of physician order entry: user satisfaction and self-reported usage patterns. Lee F, et al. **J Am Med Inform Assoc** 1996 Jan–Feb;3(1):42–55

A randomized controlled trial of a computer-based physician workstation in an outpatient setting: implementation barriers to outcome evaluation [see comments] Rotman BL, et al. **J Am Med Inform Assoc** 1996 Sep–Oct;3(5):340–8. Comment in: J Am Med Inform Assoc 1996 Sep–Oct;3(5):358–9.

Computer versus paper-and-pencil administration mode and response distortion in noncognitive selection tests. Potosky D, et al. **J Appl Psychol** 1997 Apr;82(2):293–9

Family physicians' preferences for computerized decision-support hardware and software [see comments] Ebell MH, et al. **J Fam Pract** 1997 Aug;45(2):137–41. Comment in: J Fam Pract 1997 Aug;45(2):127–8.

Informatics: a physician's view. Welsh F. **J Health Care Finance** 1997 Spring;23(3):37–43 (17 ref.)

Physician clinical communication systems--an Australian perspective. Soliman F, et al. **J Med Syst** 1997 Apr; 21(2):99–106

Computer awareness among medical students: a survey. Asgari-Jirhandeh N, et al. **Med Educ** 1997 May;31(3):225–9

Assessing staff attitudes towards information security in a European healthcare establishment. Furnell SM, et al. **Med Inf (Lond)** 1996 Apr–Jun;21(2):105–12

User attitudes to a heritage hospital information system. Lakay D, et al. **Methods Inf Med** 1997 Feb;36(2):139–40

Attitudes of community pharmacists, university-based pharmacists, and students toward on-line information resources. Shumway JM, et al. **Methods Inf Med** 1996 Jun; 35(2):142–7

Use of the World Wide Web by family practitioners. Tuominen K, et al. **Minn Med** 1996 Nov;79(11):43–6

Psychology of computer use: XLIV. Computer anxiety and learning style. Bozionelos N. **Percept Mot Skills** 1997 Jun; 84(3 Pt 1):753–4

Psychology of computer use: XLII. Problem solving and humor as a function of computer anxiety. Emanuele S, et al. **Percept Mot Skills** 1997 Feb;84(1):147–56

An examination of the relationship between accountants' scores on field independence and use of and attitude toward computers. Mills TY. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):715–20

Teaching people to use the 'best' medical record system. Ways to reduce fear and trembling [editorial] Potts JF. **Postgrad Med** 1997 Apr;101(4):33–5, 40

Just tell me what you want!: the promise and perils of rapid prototyping with the World Wide Web. Cimino JJ, et al. **Proc AMIA Annu Fall Symp** 1996;:719–23

Assessing users' satisfaction through perception of usefulness and ease of use in the daily interaction with a hospital information system. Mazzoleni MC, et al. **Proc AMIA Annu Fall Symp** 1996;:752–6

Early results of user profiles: physicians' opinions on the use of information technology. Valenta AL, et al. **Proc AMIA Annu Fall Symp** 1996;:65–9

The impact of physician order entry on nursing roles. Weir C, et al. **Proc AMIA Annu Fall Symp** 1996;:714–7

Obstacles to the use of computers in British mental health services. Briscoe M. **Psychiatr Serv** 1997 Mar;48(3):329–30

Clinical utility and patient acceptance of the computerized Composite International Diagnostic Interview. Rosenman SJ, et al. **Psychiatr Serv** 1997 Jun;48(6):815–20

Psychology of computer use: XLV. Cognitive spontaneity as a correlate of computer anxiety and attitudes toward computer use. Bozionelos N. **Psychol Rep** 1997 Apr; 80(2):395–402

Psychology of computer use: XLVII. Parameters of Internet use, abuse and addiction: the first 90 days of the Internet Usage Survey. Brenner V. **Psychol Rep** 1997 Jun;80(3 Pt 1):879–82

Psychology of computer use: XLIII. Some comments on 'addictive use of the Internet' by Young [comment] Griffiths M. **Psychol Rep** 1997 Feb;80(1):81–2. Comment on: Psychol Rep 1996 Dec;79(3 Pt 1):899–902.

The acceptance of decision-support systems. van Bemmel JH. **Technol Health Care** 1996 Aug;4(2):137–45 (24 ref.)

Medical informatics: where the action is [editorial; comment] Pauker SG, et al. **West J Med** 1997 Feb;166(2):148–50. Comment on: West J Med 1997 Feb;166(2):118–22.

[A computer professor questions computerization: the projects will become institutions which no-one can evaluate] Fällman H. **Lakartidningen** 1997 Jan 22; 94(4):204–6 **(Swe)**

ATTITUDE TO DEATH

Dying patients need better doctoring. Cohen JJ. **Acad Med** 1997 Aug;72(8):704

Medical students' attitudes toward the autopsy. Conran P, et al. **Acad Med** 1996 Jun;71(6):681–3

Medicine and the arts. Charlotte's Web. Vaught W. **Acad Med** 1997 Jun;72(6):518–9

Overdose among heroin users in Sydney, Australia: II. responses to overdose. Darke S, et al. **Addiction** 1996 Mar; 91(3):413–7

Adolescents' attitudes toward the death penalty. Lester D, et al. **Adolescence** 1997 Summer;32(126):447–9

Adolescents' perceptions and experiences of death and grieving. Morin SM, et al. **Adolescence** 1996 Fall; 31(123):585–95

Joan Halifax, PhD. Being with death and dying [interview by Bonnie Horrigan] Halifax J. **Altern Ther Health Med** 1997 Jul;3(4):68–75

Preparing for the last visit with a dying patient. Pahre SN. **Am J Health Syst Pharm** 1997 Apr 1;54(7):753–4

Perceptions by family members of the dying experience of older and seriously ill patients. SUPPORT Investigators. Study to Understand Prognoses and Preferences for Outcomes and Risks of Treatments [see comments] Lynn J, et al. **Ann Intern Med** 1997 Jan 15;126(2):97–106. Comment in: Ann Intern Med 1997 Jan 15;126(2):164–5. Comment in: Ann Intern Med 1997 Aug 1;127(3):242; discussion 243. Comment in: Ann Intern Med 1997 Aug 1;127(3):242–3. Comment in: Ann Intern Med 1997 Aug 1;127(3):243.

Attitudes of Dutch general practitioners and nursing home physicians to active voluntary euthanasia and physician-assisted suicide [letter; comment] Hammer SG. **Arch Fam Med** 1996 Oct;5(9):495–6. Comment on: Arch Fam Med 1995 Nov;4(11):951–5.

Attitudes of elderly patients and their families toward physician-assisted suicide. Koenig HG, et al. **Arch Intern Med** 1996 Oct 28;156(19):2240–8

Internal medicine, psychiatry, and emergency medicine residents' views of assisted death practices. Roberts LW, et al. **Arch Intern Med** 1997 Jul 28;157(14):1603–9

Increased attention to pain and dying [letter] Steel K. **Arch Intern Med** 1997 Apr 28;157(8):924–5

General practitioners and euthanasia. Strong opinions and unexpected views. Wilson I, et al. **Aust Fam Physician** 1997 Apr;26(4):399–401

Death and medicine. Baume P. **Aust N Z J Med** 1996 Aug; 26(4):552–3

Doctors and patients support right to die [news] Dyer C. **BMJ** 1996 Nov 30;313(7069):1354

Euthanasia and relief of suffering: attitudes of medical students. Ramírez-Rivera J, et al. **Bol Asoc Med P R** 1995 Oct-Dec;87(10-12):164–6

Psychological stress, cancer incidence and mortality from non-malignant diseases. Johansen C, et al. **Br J Cancer** 1997;75(1):144–8

Prediction and course of grief four years after perinatal loss due to congenital anomalies: a follow-up study. Hunfeld JA, et al. **Br J Med Psychol** 1997 Mar;70 (Pt 1):85–91

Encounters with death. Bennahum DA. **Camb Q Healthc Ethics** 1996 Winter;5(1):7–9

Death: right or duty? Lamm RD. **Camb Q Healthc Ethics** 1997 Winter;6(1):111–2

Cardiopulmonary resuscitation of elderly people in long-term care [editorial] [see comments] Nazerali N. **Can Fam Physician** 1996 Dec;42:2320–2, 2330–2 (22 ref.) . Comment in: Can Fam Physician 1997 Apr;43:609, 611, 613. Comment in: Can Fam Physician 1997 Apr;43:613. **(Eng, Fre)**

Advance care planning [letter; comment] Ney PG. **Can Med Assoc J** 1997 Mar 15;156(6):767–8. Comment on: Can Med Assoc J 1996 Dec 15;155(12):1689–92.

From CPR to DNR. The return of death with dignity [letter] Ciaglia P. **Chest** 1996 Dec;110(6):1627

Buddha [letter; comment] Stimler C. **Chest** 1997 Feb; 111(2):524–5. Comment on: Chest 1996 Jun;109(6):1415–6.

Detached concern and death anxiety of first-year medical students: before and after the gross anatomy course. Dickinson GE, et al. **Clin Anat** 1997;10(3):201–7

Children's understanding of death in relation to child suicidality and homicidality. Cuddy-Casey M, et al. **Clin Psychol Rev** 1997;17(1):33–45 (46 ref.)

Confronting despair: the Holocaust survivor's struggle with ordinary life and ordinary death. Krell R. **CMAJ** 1997 Sep 15;157(6):741–4

Does doctors' own fear of dying hinder palliative care? Lowry F. **CMAJ** 1997 Aug 1;157(3):301–2

For a physician with the signature scar of the CABG club, a friend's death brings not only grief but also memories and fear. Rapoport D. **CMAJ** 1997 Jun 15;156(12):1733–4

The language of death: euthanatos et mors--the science of uncertainty. Koch KA. **Crit Care Clin** 1996 Jan;12(1):1–14 (35 ref.)

Euthanasia in the Netherlands. ten Have HA, et al. **Crit Care Clin** 1996 Jan;12(1):97–108 (27 ref.)

Death on a psychiatric inpatient unit. Effect on a subgroup of schizophrenic patients. Trappler B, et al. **Gen Hosp Psychiatry** 1996 Jul;18(4):261–5

The 'good' death: three promises to make at the bedside. Mitchell DR. **Geriatrics** 1997 Aug;52(8):91–2

Attitudes of the critically ill toward prolonging life: the role of social support. Mutran EJ, et al. **Gerontologist** 1997 Apr; 37(2):192–9

The good death. The people of Missoula, Montana, open a dialogue on better ways to die. Beresford L. **Hosp Health Netw** 1997 Jun 20;71(12):60–2

Nurses' willingness to care for AIDS patients and spirituality, social support, and death anxiety. Sherman DW. **Image J Nurs Sch** 1996 Fall;28(3):205–13

The experience of dying with dementia: a retrospective study. McCarthy M, et al. **Int J Geriatr Psychiatry** 1997 Mar; 12(3):404–9

Confusion of tongues [letter; comment] Berman E. **Int J Psychoanal** 1995 Oct;76 (Pt 5):1045–6; discussion 1047–8. Comment on: Int J Psychoanal 1994 Dec;75 (Pt 5–6):871–82.

Confusion of tongues [letter; comment] Hoffer PT. **Int J Psychoanal** 1995 Oct;76 (Pt 5):1046–7; discussion 1047–8. Comment on: Int J Psychoanal 1994 Dec;75 (Pt 5–6):871–82.

Mu-Ghayeb: a culture-specific response to bereavement in Oman. al-Adawi S, et al. **Int J Soc Psychiatry** 1997 Summer;43(2):144–51

'My patient was dying' [editorial] McMillan W. **Iowa Med** 1996 Sep;86(7):263–4

Death: an enemy? Reflections on 1 Corinthians 15:26. Fleischmann RR. **Issues Law Med** 1996 Spring;11(4):411–30

What do I say to my surviving children? DeMaso DR, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep; 36(9):1299–302

Perimortal care: comments on three vignettes about death [editorial] Stephens GG. **J Am Board Fam Pract** 1997 Jul-Aug;10(4):309

Anger, patients, families, and risk management. Utley JR. **J Card Surg** 1996 Nov-Dec;11(6):434–5

Physician desire for euthanasia and assisted suicide: would physicians practice what they preach? [see comments] Howard OM, et al. **J Clin Oncol** 1997 Feb;15(2):428–32. Comment in: J Clin Oncol 1997 Feb;15(2):413–5.

Item factor analysis of the Italian version of the Death Anxiety Scale. Saggino A, et al. **J Clin Psychol** 1996 May; 52(3):329–33

Decision-making in the critically ill neonate: cultural background v individual life experiences. Hammerman C, et al. **J Med Ethics** 1997 Jun;23(3):164–9

Losses [editorial] South D. **J Miss State Med Assoc** 1996 Nov;37(11):825–6

Death anxiety and the paranormal: the primacy of belief over experience. Lange R, et al. **J Nerv Ment Dis** 1997 Sep; 185(9):584–6

Beyond pain: the existential suffering of children. Attig T. **J Palliat Care** 1996 Autumn;12(3):20–3

When children have to die [editorial] Roy DJ. **J Palliat Care** 1996 Autumn;12(3):3–4

The broken heart: anticipatory grief in the child facing death. Sourkes BM. **J Palliat Care** 1996 Autumn;12(3):56–9

Family responses when a child with cancer is in palliative care. Stevens MM, et al. **J Palliat Care** 1996 Autumn; 12(3):51–5

The needs of parents of pediatric oncology patients during the palliative care phase. James L, et al. **J Pediatr Oncol Nurs** 1997 Apr;14(2):83–95

Enough trust to talk about coffins. Oliva LS. **J Pediatr Oncol Nurs** 1997 Apr;14(2):106–7

The death of a child--the parent's perspective and advice. Woolley MM. **J Pediatr Surg** 1997 Jan;32(1):73–4

Suppression, accessibility of death-related thoughts, and cultural worldview defense: exploring the psychodynamics of terror management. Arndt J, et al. **J Pers Soc Psychol** 1997 Jul;73(1):5–18

Fear of death and the judgment of social transgressions: a multidimensional test of terror management theory. Florian V, et al. **J Pers Soc Psychol** 1997 Aug;73(2):369–80

Terror management theory and self-esteem: evidence that increased self-esteem reduces mortality salience effects. Harmon-Jones E, et al. **J Pers Soc Psychol** 1997 Jan; 72(1):24–36

Using metaphors to assess anticipatory perceptions of personal death. McLennan J, et al. **J Psychol** 1997 May; 131(3):333–42

Communication and choice in dying from heart disease. McCarthy M, et al. **J R Soc Med** 1997 Mar;90(3):128–31

A piece of my mind. Maumee: my Walden pond. Bone RC. **JAMA** 1996 Dec 25;276(24):1931

A piece of my mind. Lemonade: the last refreshing taste [see comments] Bone RC. **JAMA** 1996 Oct 16;276(15):1216. Comment in: JAMA 1997 Jan 15;277(3):211–2.

A piece of my mind. A winter's tale. Davis GJ. **JAMA** 1997 Apr 16;277(15):1198

The rehumanization of death: the ethical responsibility of physicians to dying patients. Geppert CM. **JAMA** 1997 May 7;277(17):1408–9

An 88-year-old woman facing the end of life [clinical conference] Lynn J. **JAMA** 1997 May 28;277(20):1633–40

The last refreshing taste [letter; comment] Rousseau P. **JAMA** 1997 Jan 15;277(3):211–2. Comment on: JAMA 1996 Oct 16;276(15):1216.

A piece of my mind. The road to Morrakonnam. Swamidoss CP. **JAMA** 1997 Feb 5;277(5):362

A piece of my mind. Notes from the inner territories. Woodell MI. **JAMA** 1997 Aug 20;278(7):543

Care for dying patients [letter; comment] Benz C. **Lancet** 1997 Jul 26;350(9073):296. Comment on: Lancet 1997 Jun 14;349(9067):1714.

Egyptian mummies [letter] Nathan B. **Lancet** 1997 Aug 9; 350(9075):450

Medicine and the community--the euthanasia debate [letter; comment] Parker M. **Med J Aust** 1996 Oct 21;165(8):457 . Comment on: Med J Aust 1996 Jul 15;165(2):118.

Depression, decisions and the desire to die [editorial; comment] Ryan CJ. **Med J Aust** 1996 Oct 21;165(8):411 . Comment on: Med J Aust 1996 Oct 21;165(8):416–9.

The discussion on human organ transplantation in the Islamic states. Atigetchi D. **Med Law** 1996;15(4):691–4

Supporting assisted suicide. How do the public and physicians feel about aiding in death? Bachman JG, et al. **Mich Med** 1997 Apr;96(4):34–6

End-of life decisionmaking. The patient's right to choose. King NM, et al. **N C Med J** 1996 Nov-Dec;57(6):381–4

Hospital care for dying patients [letter; comment] Weissman DE. **N Engl J Med** 1996 Dec 5;335(23):1765–6; discussion 1767. Comment on: N Engl J Med 1996 Jun 27;334(26):1740–2.

Care and caring at the end of life. Fishman L. **N J Med** 1997 May;94(5):55–9

"Coding" the patient with cancer: nurses facilitate family acceptance and grief. Boyle DM. **Oncol Nurs Forum** 1997 Apr;24(3):458

The effect of death education on attitudes of hospital nurses toward care of the dying. Hainsworth DS. **Oncol Nurs Forum** 1996 Jul;23(6):963–7

End-of-life care: evolution of the nurse's role. Haisfield-Wolfe ME. **Oncol Nurs Forum** 1996 Jul; 23(6):931–5

Venturing into the unknown: cultural beliefs about death and dying. Nishimoto P. **Oncol Nurs Forum** 1996 Jul; 23(6):889–94

Symbol, metaphor and story. The function of group art therapy in palliative care. Mayo S. **Palliat Med** 1996 Jul; 10(3):209–16

Perceptions of a 'good' death: a comparative study of the views of hospice staff and patients. Payne SA, et al. **Palliat Med** 1996 Oct;10(4):307–12

A comparison of hospice and hospital care for the spouses of people who die. Seale C, et al. **Palliat Med** 1997 Mar; 11(2):101–6

Two scales of death anxiety: their reliability and correlation among Kuwaiti samples. Abdel-Khalek AM. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):921–2

The living will--to ensure a natural death [letter] Levitt MA. **Pharos** 1996 Summer;59(3):49–50

Canna Lily. Lyons PR. **Pharos** 1997 Summer;60(3):42–3

Dying, death, and grief. Helping patients and their families through the process. Krigger KW, et al. **Postgrad Med** 1997 Mar;101(3):263–70 (8 ref.)

Psychoanalytic observations on the "gift" technique in the treatment of the dying patient: a case report. Garcia EE. **Psychoanal Rev** 1996 Jun;83(3):395–418 (39 ref.)

Reduction of anxiety about death: need for beliefs about immortality. Conn R, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1315–8

Preliminary study of death anxiety of believers versus percipients of the paranormal. Houran J. **Psychol Rep** 1997 Feb;80(1):345–6

Fears of death and the probability of suicide. Lester D. **Psychol Rep** 1996 Oct;79(2):510

Undertakers' death anxiety. Thorson JA, et al. **Psychol Rep** 1996 Jun;78(3 Pt 2):1228–30

Denying the dying. Advance directives and dialysis discontinuation. Cohen LM, et al. **Psychosomatics** 1997 Jan-Feb;38(1):27–34

Determinants of the willingness to endorse assisted suicide. A survey of physicians, nurses, and social workers. Portenoy RK, et al. **Psychosomatics** 1997 May-Jun; 38(3):277–87

Assisted suicide [letter; comment] Lester PD. **Semin Roentgenol** 1997 Jan;32(1):2. Comment on: Semin Roentgenol 1996 Jul;31(3):181.

The role of death in our society [editorial] [see comments] Miller WT. **Semin Roentgenol** 1996 Jul;31(3):181. Comment in: Semin Roentgenol 1997 Jan;32(1):2.

Shattered assumptions: time and the experience of long-term HIV positivity. Davies ML. **Soc Sci Med** 1997 Mar; 44(5):561–71

Impact of witnessing death on hospice patients. Payne S, et al. **Soc Sci Med** 1996 Dec;43(12):1785–94

Awareness of dying: prevalence, causes and consequences. Seale C, et al. **Soc Sci Med** 1997 Aug;45(3):477–84

"Painting a Leonardo with finger paint": medical practitioners communicating about death with aboriginal people. Weeramanthri T. **Soc Sci Med** 1997 Oct;45(7):1005–15

Adolescent attitudes about death in relation to suicidality. Gutierrez P, et al. **Suicide Life Threat Behav** 1996 Spring; 26(1):8–18

The life attitudes schedule: a scale to assess adolescent life-enhancing and life-threatening behaviors. Lewinsohn PM, et al. **Suicide Life Threat Behav** 1995 Winter; 25(4):458–74

Physicians and death: comments and behaviour of 605 doctors in the north-east of Italy [see comments] Annunziata MA, et al. **Support Care Cancer** 1996 Sep; 4(5):334–40. Comment in: Support Care Cancer 1996 Sep;4(5):325.

Asking for altruism when death occurs: who asks for organ donation and why? Siminoff LA, et al. **Transplant Proc**

1996 Dec;28(6):3632–8
[The patient's turn to speak] Chatelanat F, et al. **Rev Med Suisse Romande** 1997 Mar;117(3):269–70 **(Fre)**
[Managing life and death wishes of invasively ventilated amyotrophic lateral sclerosis patients] Winterholler M, et al. **Med Klin** 1997 Apr 28;92 Suppl 1:90–2 (Eng. Abstr.) **(Ger)**
[Certain specific aspects of fear of death] Temesváry B. **Orv Hetil** 1996 Jun 30;137(26):1419–25 (50 ref.) (Eng. Abstr.) **(Hun)**
[Factors promoting acceptance of death at home] Asaoka Y, et al. **Gan To Kagaku Ryoho** 1996 Dec;23 Suppl 3:267–70 (Eng. Abstr.) **(Jpn)**
[Successful ending of the life the aged] Hinohara S. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):2–4 **(Jpn)**
[The first professor of palliative medicine in Sweden. Peter Strang on the unique dimension of dying] Aldstedt E. **Lakartidningen** 1997 Sep 3;94(36):3002–3 **(Swe)**
[Create "freedom" for the debate on death, not clinics! (letter; comment)] Bengtsson M. **Lakartidningen** 1997 Feb 12; 94(7):500. Comment on: Lakartidningen 1997 Jan 8;94(1):13–4. **(Swe)**
[A reply on euthanasia: cultural view on dying may be totally changed (see comments)] Wasserman D. **Lakartidningen** 1997 Mar 12;94(11):926, 931–2. Comment in: Lakartidningen 1997 May 21;94(21):1972. **(Swe)**

ETHNOLOGY

Determinants of suicide ideation: a comparison of Chinese and American college students. Zhang J, et al. **Adolescence** 1996 Summer;31(122):451–67
Attitudes of Sydney Chinese to voluntary euthanasia [letter] Yuan ZF, et al. **Aust N Z J Public Health** 1997 Feb; 21(1):106–7
Family bereavement and cultural diversity: a social developmental perspective. Shapiro ER. **Fam Process** 1996 Sep;35(3):313–32 (76 ref.)
Cultural issues in death and dying. Braun KL, et al. **Hawaii Med J** 1996 Dec;55(12):260–4
A view of death and dying among the Chinese and Japanese. Char DF, et al. **Hawaii Med J** 1996 Dec;55(12):286–90, 295
Black/white differences in attitudes toward physician-assisted suicide. Lichtenstein RL, et al. **J Natl Med Assoc** 1997 Feb;89(2):125–33
Death in technological time: locating the end of meaningful life. Lock M. **Med Anthropol Q** 1996 Dec;10(4):575–600 (63 ref.)
Ethics and ethnicity: end-of-life decisions in four ethnic groups of cancer patients. Davis A. **Med Law** 1996; 15(3):429–32

ATTITUDE TO HEALTH

see related
PATIENT DROPOUTS
SICK ROLE

Defibrillation and public expectation [editorial] Eisenberg MS. **Acad Emerg Med** 1997 Jun;4(6):535–6
A survey of adolescents' knowledge regarding toxicity of over-the-counter medications [see comments] Huott MA, et al. **Acad Emerg Med** 1997 Mar;4(3):214–8. Comment in: Acad Emerg Med 1997 Mar;4(3):163–4.
Medicine and the arts. Plane life. Hawkins AH, et al. **Acad Med** 1996 Jun;71(6):652–3
Students' attitudes toward people with mental retardation [letter] Scott MH, et al. **Acad Med** 1997 Apr;72(4):246–7
Medicine and the arts. Charlotte's Web. Vaught W. **Acad Med** 1997 Jun;72(6):518–9
Stigma and socio-economic reintegration of leprosy sufferers in Nigeria. Awofeso N. **Acta Leprol** 1996;10(2):89–91 (12 ref.)
Knowledge and attitudes of teachers towards epilepsy in Zimbabwe. Mielke J, et al. **Acta Neurol Scand** 1997 Sep; 96(3):133–7
Management of chronic orofacial pain: attitudes among patients and dentists in a Swedish county. Dahlström L, et al. **Acta Odontol Scand** 1997 Jun;55(3):181–5
Periodontal awareness among adult Finns in 1972 and 1990. Murtomaa H, et al. **Acta Odontol Scand** 1997 Jan; 55(1):49–52
Oral health behavior, knowledge, and attitudes of children, mothers, and schoolteachers in Romania in 1993. Petersen PE, et al. **Acta Odontol Scand** 1995 Dec;53(6):363–8
Subjective aspects of patients with traumatized teeth. A 15-year follow-up study. Robertson A, et al. **Acta Odontol Scand** 1997 Jun;55(3):142–7
Assessment of maternal anxiety following neonatal screening and investigation for occult spinal dysraphism. Gibson PJ, et al. **Acta Paediatr** 1997 Jan;86(1):72–6
Perceived social norms as crucial determinants of mother's injury-preventive behaviour. Sellström E, et al. **Acta Paediatr** 1996 Jun;85(6):702–7
Familial hypercholesterolaemia: a pilot study of parents' and children's concerns. Tonstad S. **Acta Paediatr** 1996 Nov; 85(11):1307–13
Relatives' beliefs about the causes of schizophrenia. Angermeyer MC, et al. **Acta Psychiatr Scand** 1996 Mar; 93(3):199–204
Attribution in somatizers: stability and relationship to outcome at 1-year follow-up. Grupo Morbilidad Psiquica y Psicosomática de Zaragoza (GMPPZ). García-Campayo J, et al. **Acta Psychiatr Scand** 1997 May;95(5):433–8
Maternal perception of children's weight in relation to eating disorders. Ohzeki T, et al. **Acta Psychiatr Scand** 1996 Oct; 94(4):279–80
Risk perception following exposure to a job-related electrocution accident: the mediating role of perceived control. Greening L. **Acta Psychol (Amst)** 1997 Apr; 95(3):267–77
Young smokers' attitudes about methods for quitting smoking: barriers and benefits to using assisted methods. Hines D. **Addict Behav** 1996 Jul-Aug;21(4):531–5
Are psychosocial factors related to smoking in grade-6 students? Pederson LL, et al. **Addict Behav** 1997 Mar-Apr; 22(2):169–81
Predicting underage drinking and driving behaviors. Grube JW, et al. **Addiction** 1996 Dec;91(12):1843–57
High- and low-dose alcohol-related expectancies and the differential associations with drinking in male and female adolescents and young adults. Wiers RW, et al. **Addiction** 1997 Jul;92(7):871–88
Searching for the Magic Johnson effect: AIDS, adolescents, and celebrity disclosure. Brown BR Jr, et al. **Adolescence** 1996 Summer;31(122):253–64
Disordered sleep and noncompliance in a patient with end-stage renal disease. Kimmel PL, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):55–67
Sexual desire, erection, orgasm and ejaculatory functions and their importance to elderly Swedish men: a population-based study. Helgason AR, et al. **Age Ageing** 1996 Jul;25(4):285–91
Responses of people of different ages to health problems. Vetter NJ, et al. **Aging (Milano)** 1995 Oct;7(5):367–70
Assessing participation bias in a sexual behaviour survey: implications for measuring HIV risk. Copas AJ, et al. **AIDS** 1997 May;11(6):783–90
Dealing with a life-threatening diagnosis: the experience of people with the human immunodeficiency virus. Chidwick A, et al. **AIDS Care** 1996 Jun;8(3):271–84
Patrons of the sex industry: perceptions of risk. Plumridge EW, et al. **AIDS Care** 1996 Aug;8(4):405–16
Reasons given by patients for "non-progression" in HIV infection. Troop M, et al. **AIDS Care** 1997 Apr;9(2):133–42
It's like a regular part of gay life: repeat HIV antibody testing among gay and bisexual men. Kalichman SC, et al. **AIDS Educ Prev** 1997 Jun;9(3 Suppl):41–51
Behavioral risks for HIV infection associated with HIV-testing decisions. Miller KS, et al. **AIDS Educ Prev** 1996 Oct;8(5):394–402
Attitudes about AIDS education and condom availability among parents of high school students in New York City: a focus group approach. Rafferty Y, et al. **AIDS Educ Prev** 1997 Feb;9(1):14–30
Children's understanding of the symptoms of AIDS. Shoemaker MR, et al. **AIDS Educ Prev** 1996 Oct; 8(5):403–14
Psychosocial barriers to health promotion in an American Indian population. Lightdale JR, et al. **Am Indian Alsk Native Ment Health Res** 1997;7(3):34–49
A measure of readiness for substance abuse treatment. Psychometric properties of the RAATE-R interview. Najavits LM, et al. **Am J Addict** 1997 Winter;6(1):74–82
Effect of a music intervention on noise annoyance, heart rate, and blood pressure in cardiac surgery patients. Byers JF, et al. **Am J Crit Care** 1997 May;6(3):183–91
Patients' responses to the angioplasty experience: a qualitative study. Gulanick M, et al. **Am J Crit Care** 1997 Jan; 6(1):25–32
Drugs for amnesia in the ICU. Wagner BK, et al. **Am J Crit Care** 1997 May;6(3):192–201; quiz 202–3 (145 ref.)
Motivation and readiness for therapeutic community treatment among cocaine and other drug abusers. De Leon G, et al. **Am J Drug Alcohol Abuse** 1997 May;23(2):169–89
Attitude of emergency department patients toward HIV-infected health care workers. Salluzzo RF, et al. **Am J Emerg Med** 1997 Mar;15(2):141–4
Hemodialysis patient-assessed functional health status predicts continued survival, hospitalization, and dialysis-attendance compliance. DeOreo PB. **Am J Kidney Dis** 1997 Aug;30(2):204–12
Dialysis patient attitudes toward financial incentives for kidney donation. Sehgal AR, et al. **Am J Kidney Dis** 1997 Mar;29(3):410–8
Menopausal hormone therapy: physician awareness of patient attitudes. Ghali WA, et al. **Am J Med** 1997 Jul;103(1):3–10
Genetic testing for breast cancer susceptibility: awareness and interest among women in the general population. Tambor ES, et al. **Am J Med Genet** 1997 Jan 10;68(1):43–9
Experiences and attitudes concerning genetic testing and insurance in a Colorado population: a survey of families diagnosed with fragile X syndrome. Wingrove KJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):378–81
Social implications of behavioral interventions for persons with mental retardation. Bihm EM, et al. **Am J Ment Retard** 1997 May;101(6):567–78
Residential transitions of adults with mental retardation: predictors of waiting list use and placement. Essex EL, et al. **Am J Ment Retard** 1997 May;101(6):613–29
How to guide ventilator-dependent patients from hospital to home. Kanacki L. **Am J Nurs** 1997 Feb;97(2):37–9
Attitudes toward health-care, HIV infection, and perinatal transmission interventions in a cohort of inner-city, pregnant women. Silverman NS, et al. **Am J Perinatol** 1997 Jul;14(6):341–6
Immunization rates among young children in the public and private health care sectors. Simpson DM, et al. **Am J Prev Med** 1997 Mar-Apr;13(2):84–8
In defense of families of the mentally ill [letter; comment] Hall LL, et al. **Am J Psychiatry** 1996 Oct;153(10):1373–4. Comment on: Am J Psychiatry 1995 Nov;152(11):1563–75.
Changes in perceived health status of depressed elderly patients treated until remission. Miller MD, et al. **Am J Psychiatry** 1996 Oct;153(10):1350–2
Assessing mothers' attitudes about the physician's role in child health promotion. Cheng TL, et al. **Am J Public Health** 1996 Dec;86(12):1809–12
Antigovernment sentiment and support for universal access to care: are they incompatible? Goldsteen RL, et al. **Am J Public Health** 1997 Jan;87(1):25–8
Cigarette smoking attitudes and first use among third- through sixth-grade students: the Bogalusa Heart Study. Greenlund KJ, et al. **Am J Public Health** 1997 Aug; 87(8):1345–8
Comment: Gunsmoke--changing public attitudes toward smoking and firearms. Kellermann AL. **Am J Public Health** 1997 Jun;87(6):910–3
Do beliefs, knowledge, and perceived norms about diet and cancer predict dietary change? Patterson RE, et al. **Am J Public Health** 1996 Oct;86(10):1394–400
The road from managed care [editorial] Silver G. **Am J Public Health** 1997 Jan;87(1):8–9
Perceived control of asthma: development and validation of a questionnaire. Katz PP, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):577–82
Anaesthesia information--what patients want to know. Garden AL, et al. **Anaesth Intensive Care** 1996 Oct; 24(5):594–8
Did the use of chloroform by Queen Victoria influence its acceptance in obstetric practice? Connor H, et al. **Anaesthesia** 1996 Oct;51(10):955–7
Current understanding of patients' attitudes toward and preparation for anesthesia: a review [see comments] Klafta JM, et al. **Anesth Analg** 1996 Dec;83(6):1314–21 (40 ref.). Comment in: Anesth Analg 1997 May;84(5):1167–8.
Primary monosymptomatic nocturnal enuresis in Singapore--parental perspectives in an Asian community. Chao SM, et al. **Ann Acad Med Singapore** 1997 Mar; 26(2):179–83
Attitudes toward the use of a metal detector in an urban emergency department. Meyer T, et al. **Ann Emerg Med** 1997 May;29(5):621–4
Communication, autonomy, and hope. How can we treat seriously ill patients with respect? Husebo S. **Ann N Y Acad Sci** 1997 Feb 20;809:440–59
Communication of the cancer diagnosis to Mexican patients. Attitudes of physicians and patients. Torrecillas L. **Ann N Y Acad Sci** 1997 Feb 20;809:188–96
Impact of a laryngectomy on quality of life: perspective of the patient versus that of the health care provider. Otto RA, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):693–9
Attitudes of patients to elective surgical admissions over Christmas and Easter. Whiteley MS, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2 Suppl):68–71
Conformity with nature: a theory of Chinese American elders' health promotion and illness prevention processes. Chen YL. **ANS Adv Nurs Sci** 1996 Dec;19(2):17–26
Are gonadotrophic hormonal factors perceived to be important by women with panic attacks? Birchall HM. **Anxiety** 1994;1(2):102–3
Etiological beliefs and treatment preferences in anxiety-disordered patients. Waikar SV, et al. **Anxiety** 1994–95;1(3):134–7
Toward an understanding of laypeople's notions about additives in food: clear-cut viewpoints about additives decrease with education. Kajanne A, et al. **Appetite** 1996 Dec;27(3):207–22
Relationships among illness uncertainty, stress, coping, and emotional well-being at entry into a clinical drug trial. Wineman NM, et al. **Appl Nurs Res** 1996 May;9(2):53–60
Clinic audit for long-term survivors of childhood cancer. Eiser C, et al. **Arch Dis Child** 1996 Nov;75(5):405–9
Paracetamol use, availability, and knowledge of toxicity among British and American adolescents. Gilbertson RJ, et al. **Arch Dis Child** 1996 Sep;75(3):194–8
Needs of disabled children and their families. Milner J, et al. **Arch Dis Child** 1996 Nov;75(5):399–404
Research responses to outbreaks of concern about local environments [see comments] Cole DC, et al. **Arch Environ Health** 1996 Sep-Oct;51(5):352–8 (47 ref.). Comment in: Arch Environ Health 1996 Sep-Oct;51(5):351.
Appraising health effects of local environments: deciding if they are adverse [editorial; comment] Kilburn KH. **Arch Environ Health** 1996 Sep-Oct;51(5):351. Comment on: Arch Environ Health 1996 Sep-Oct;51(5):352–8.
Patients' attitudes toward detection of heterozygous familial hypercholesterolemia. Andersen LK, et al. **Arch Intern Med** 1997 Mar 10;157(5):553–60
Influences of gender and social class on adolescents' perceptions of health. Goodman E, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9): 99–904
Influence of family functioning and income on vaccination in inner-city health centers. Zimmerman RK, et al. **Arch Pediatr Adolesc Med** 1996 Oct;150(10):1054–61

Depression and life satisfaction in aging polio survivors versus age-matched controls: relation to postpolio syndrome, family functioning, and attitude toward disability. Kemp BJ, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):187–92

Sense of relatedness and interpersonal network of adult offspring caregivers: linkages with crisis, emotional arousal, and perceived health. England M. **Arch Psychiatr Nurs** 1996 Apr;10(2):85–95

Attitude towards the future of the environment among medical students in the University of Oulu [letter] Käsmä-Ronkainen L, et al. **Arctic Med Res** 1996 Jul; 55(3):148–9

Sun behaviour and perceptions of risk for melanoma among 21-year-old New Zealanders. Douglass HM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):329–34

Knowledge of and attitudes to infection control of tattooists at registered premises in Victoria, 1994. Goudey RE, et al. **Aust N Z J Public Health** 1997 Feb;21(1):17–22

Evaluation of infection control in registered tattooing premises in Victoria, 1994. Goudey RE, et al. **Aust N Z J Public Health** 1997 Feb;21(1):22–8

Evidence on fluoridation [letter; comment] Jackman P. **Aust N Z J Public Health** 1997 Jun;21(3):346. Comment on: Aust N Z J Public Health 1997 Apr;21(2):187–90.

Routine antenatal screening: not a case of informed choice. Searle J. **Aust N Z J Public Health** 1997 Jun;21(3):268–74

Accuracy of women's recall of opportunistic recruitment for cervical cancer screening in general practice. Ward J, et al. **Aust N Z J Public Health** 1997 Jun;21(3):335–6

Primary school children's perceptions of the effects of sun on skin. Rademaker M, et al. **Australas J Dermatol** 1996 Feb;37(1):30–6

Perceptual and coping processes across the menstrual cycle: an investigation in a premenstrual syndrome clinic and a community sample. Fontana AM, et al. **Behav Med** 1997 Winter;22(4):152–9

Effects of suppressing the urge to drink on the accessibility of alcohol outcome expectancies. Palfai TP, et al. **Behav Res Ther** 1997 Jan;35(1):59–65

Looming vulnerability to spreading contamination in subclinical OCD. Riskind JH, et al. **Behav Res Ther** 1997 May;35(5):405–14

Using mental imagery with subclinical OCD to 'freeze' contamination in its place: evidence for looming vulnerability theory. Riskind JH, et al. **Behav Res Ther** 1997 Aug;35(8):757–68

BMA opposes legalisation of euthanasia [news] Beecham L. **BMJ** 1997 Jul 12;315(7100):80

Respecting the autonomy of cancer patients when talking with their families: qualitative analysis of semistructured interviews with patients [see comments] Benson J, et al. **BMJ** 1996 Sep 21;313(7059):729–31. Comment in: BMJ 1996 Sep 21;313(7059):699–700.

Citizens have their say on health care [news] Bower H. **BMJ** 1996 Nov 9;313(7066):1164

Strident, but essential: the voices of people with AIDS [comment] Busse P. **BMJ** 1997 Mar 22;314(7084):888–9. Comment on: BMJ 1997 Mar 22;314(7084):887–8.

Those who believe in alternative theories of AIDS have little room for manoeuvre [letter] Derbyshire SW. **BMJ** 1997 Feb 22;314(7080):607–8

Statistical basis of public policy. Bayesian statistics is valuable provided it is based on data [letter; comment] Durrant NF. **BMJ** 1997 Jan 4;314(7073):74. Comment on: BMJ 1996 Sep 7;313(7057):603–7.

Women's understanding of abnormal cervical smear test results: a qualitative interview study. Kavanagh AM, et al. **BMJ** 1997 May 10;314(7091):1388–91

Information needs of cancer patients in west Scotland: cross sectional survey of patients' views [see comments] Meredith C, et al. **BMJ** 1996 Sep 21;313(7059):724–6. Comment in: BMJ 1996 Sep 21;313(7059):699–700.

Commentary: evidence based information for women is important. Newburn M, et al. **BMJ** 1996 Nov 16; 313(7067):1253–4

Informed choice for users of health services: views on ultrasonography leaflets of women in early pregnancy, midwives, and ultrasonographers [see comments] Oliver S, et al. **BMJ** 1996 Nov 16;313(7067):1251–3. Comment in: BMJ 1997 Mar 15;314(7083):831.

Lay people's attitudes to treatment of depression: results of opinion poll for Defeat Depression Campaign just before its launch [see comments] Priest RG, et al. **BMJ** 1996 Oct 5;313(7061):858–9. Comment in: BMJ 1996 Oct 5;313(7061):829–30. Comment in: BMJ 1997 Mar 15;314(7083):829.

Ownership and uses of human tissue: does the Nuffield bioethics report accord with opinion of surgical inpatients? [see comments] Start RD, et al. **BMJ** 1996 Nov 30; 313(7069):1366–8. Comment in: BMJ 1997 Apr 19;314(7088):1201–2.

Who should decide? Qualitative analysis of panel data from public, patients, healthcare professionals, and insurers on priorities in health care. Stronks K, et al. **BMJ** 1997 Jul 12;315(7100):92–6

Public supports euthanasia for most desperate cases [news] Wise J. **BMJ** 1996 Dec 7;313(7070):1423

Dental attitudes and behaviour among a sample of dentate older adults from three English communities. Steele JG, et al. **Br Dent J** 1996 Feb 24;180(4):131–6

Factors influencing perceived treatment need and the dental attendance patterns of older adults. Tickle M, et al. **Br Dent J** 1997 Feb 8;182(3):96–100

Development of the Hearing Attitudes in Rehabilitation Questionnaire (HARQ). Hallam RS, et al. **Br J Audiol** 1996 Jun;30(3):199–213

Attitude and help-seeking for hearing impairment. van den Brink RH, et al. **Br J Audiol** 1996 Oct;30(5):313–24

School behaviour and health status after central nervous system tumours in childhood. Glaser AW, et al. **Br J Cancer** 1997;76(5):643–50

Differences between doctor and patient estimates of outcome in male sub-fertility clinic attenders. Glover L, et al. **Br J Clin Psychol** 1996 Nov;35 (Pt 4):531–42

The influence of psychiatric hospital and community residence labels on social rejection of the mentally ill. Ingamells S, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):359–67

Measurement of quality of life in atopic dermatitis: correlation and validation of two different methods. Herd RM, et al. **Br J Dermatol** 1997 Apr;136(4):502–7

Dermatology quality of life scales--a measure of the impact of skin diseases. Morgan M, et al. **Br J Dermatol** 1997 Feb; 136(2):202–6

Psoriasis in the community: prevalence, severity and patients' beliefs and attitudes towards the disease. Nevitt GJ, et al. **Br J Dermatol** 1996 Oct;135(4):533–7

Teachers' views on bullying: definitions, attitudes and ability to cope. Boulton MJ. **Br J Educ Psychol** 1997 Jun;67 (Pt 2):223–33

The reported availability of general practitioners and the influence of practice list size. Campbell JL. **Br J Gen Pract** 1996 Aug;46(409):465–8

Medical students in general practice: how do patients feel? Cooke F, et al. **Br J Gen Pract** 1996 Jun;46(407):361–2

Perceptions of urinary symptoms and health-care-seeking behaviour amongst men aged 40–79 years. Cunningham-Burley S, et al. **Br J Gen Pract** 1996 Jun; 46(407):349–52

Older people's perceptions about symptoms. Morgan R, et al. **Br J Gen Pract** 1997 Jul;47(420):427–30

Women's experiences of general practitioner management of their vaginal symptoms [see comments] O'Dowd TC, et al. **Br J Gen Pract** 1996 Jul;46(408):415–8. Comment in: Br J Gen Pract 1996 Jul;46(408):392–3.

Views of pregnant women on the involvement of general practitioners in maternity care. Smith LF. **Br J Gen Pract** 1996 Feb;46(403):101–4

The pathway to care in post-natal depression: women's attitudes to post-natal depression and its treatment. Whitton A, et al. **Br J Gen Pract** 1996 Jul;46(408):427–8

Adjuvant treatment in high-risk breast cancer [letter; comment] Leonard RC. **Br J Hosp Med** 1996 Jul 10–Aug 20;56(2–3):112. Comment on: Br J Hosp Med 1996 Feb 21–Mar 5;55(4):156–8.

Missed abortion versus delayed miscarriage [letter] Hutchon DJ. **Br J Obstet Gynaecol** 1997 Jun;104(6):753

Laparoscopic sterilisation: opinion and practice among gynaecologists in Scotland. Penney GC, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):71–7

Antenatal serum screening for genital herpes: a study of knowledge and attitudes of women at a central London hospital. Vonau B, et al. **Br J Obstet Gynaecol** 1997 Mar; 104(3):347–9

Patients' attitudes toward having been forcibly medicated. Greenberg WM, et al. **Bull Am Acad Psychiatry Law** 1996; 24(4):513–24

Applying what burn survivors have to say to future therapeutic interventions. Robert R, et al. **Burns** 1997 Feb; 23(1):50–4

Goldilocks and Mrs. Ilych: a critical look at the "philosophy of hospice". Ackerman F. **Camb Q Healthc Ethics** 1997 Summer;6(3):314–24

Barriers and facilitators to seniors' independence. Perceptions of seniors, caregivers, and health care providers. Brown JB, et al. **Can Fam Physician** 1997 Mar;43:469–75

Early at-risk alcohol intake. Definitions and physicians' role in modifying behaviour. Herbert C, et al. **Can Fam Physician** 1997 Apr;43:639–44

A physician's experience of a "minor" illness [editorial] McNair SM. **Can Fam Physician** 1996 Dec;42:2323–5, 2333–5 **(Eng, Fre)**

Physicians to break habit [letter; comment] Riley GT. **Can Fam Physician** 1996 Dec;42:2344. Comment on: Can Fam Physician 1996 Oct;42:1903–4.

Breast and pelvic examinations: easing women's discomfort [see comments] Webb R, et al. **Can Fam Physician** 1996 Jan;42:54–8. Comment in: Can Fam Physician 1996 May;42:846.

Mental health concerns of Canadian adolescents [editorial; comment] Bradley SJ. **Can J Psychiatry** 1996 Feb;41(1):3–4 . Comment on: Can J Psychiatry 1996 Feb;41(1):5–10.

Mental health concerns of Canadian adolescents: a consumer's perspective [see comments] Kutcher S, et al. **Can J Psychiatry** 1996 Feb;41(1):5–10. Comment in: Can J Psychiatry 1996 Feb;41(1):3–4.

Correlates of self-rated health in persons aged 85 and over: results from the Canadian Study of Health and Aging. Ebly EM, et al. **Can J Public Health** 1996 Jan–Feb;87(1):28–31

Ban relative results? Absolutely! [letter; comment] Dermer M. **Can Med Assoc J** 1996 Nov 15;155(10):1387–8. Comment on: Can Med Assoc J 1996 May 15;154(10):1493–9.

Public debate on private medicine [letter; comment] Fishman MJ. **Can Med Assoc J** 1996 Dec 15;155(12):1662; discussion 1662–3. Comment on: Can Med Assoc J 1996 Aug 15;155(4):404–6. Comment on: Can Med Assoc J 1996 Aug 15;155(4):407–10.

Haida perspectives on living with non-insulin-dependent diabetes. Grams GD, et al. **Can Med Assoc J** 1996 Dec 1;155(11):1563–8

National Forum on Health expects action on its soon-to-be-released report. Robb N. **Can Med Assoc J** 1996 Nov 15;155(10):1473–4

The great divide [letter] Slowey GJ. **Can Med Assoc J** 1997 May 15;156(10):1377

Whose interest? Patient's, physician's or society's? [letter; comment] Taylor GA. **Can Med Assoc J** 1996 Nov 1; 155(9):1235–6. Comment on: Can Med Assoc J 1996 Jul 15;155(2):209–11.

A national survey of attitudes regarding participation in prostate carcinoma testing. Cowen ME, et al. **Cancer** 1996 Nov 1;78(9):1952–7

Genetic susceptibility testing. A therapeutic illusion [editorial; comment] Freedman TG. **Cancer** 1997 Jun 1; 79(11):2063–5; discussion 2066. Comment on: Cancer 1997 Jun 1;79(11):2219–28.

Why do women's attitudes toward mammography change over time? Implications for physician-patient communication. Pearlman DN, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jun;6(6):451–7

Explaining different profiles in quality of life experiences in acute and chronic leukemia. Berterö C, et al. **Cancer Nurs** 1997 Apr;20(2):100–4

Caring and uncaring encounters within nursing and health care from the cancer patient's perspective. Halldórsdóttir S, et al. **Cancer Nurs** 1997 Apr;20(2):120–8

Experiencing existential changes: the lived experience of having cancer. Halldorsdottir S, et al. **Cancer Nurs** 1996 Feb;19(1):29–36

Anxiety and depression in hospitalized patients with cancer: agreement in patient-staff dyads. Lampic C, et al. **Cancer Nurs** 1996 Dec;19(6):419–28

Causal attributions, coping strategies, and adjustment to breast cancer. Lavery JF, et al. **Cancer Nurs** 1996 Feb; 19(1):20–8

Biosocial profile of women with incomplete abortions in Ga-Rankuwa Hospital, Medunsa, RSA. Adu SA. **Cent Afr J Med** 1996 Jul;42(7):198–202

Bed partners' assessment of nasal continuous positive airway pressure therapy in obstructive sleep apnea. Kiely JL, et al. **Chest** 1997 May;111(5):1261–5

The effect of a patient's risk-taking attitude on the cost effectiveness of testing strategies in the evaluation of pulmonary lesions. Raab SS, et al. **Chest** 1997 Jun; 111(6):1583–90

Even young children's assessments provide useful information about asthma control. Logan S. **Child Care Health Dev** 1997 Jul;23(4):355–6

Family predictors of maternal and paternal involvement in programs for young children with disabilities. Gavidia-Payne S, et al. **Child Dev** 1997 Aug;68(4):701–17

The child's conception of psychiatric cure. Szajnberg NM, et al. **Child Psychiatry Hum Dev** 1996 Summer;26(4):247–54

Attitudes towards termination for fetal abnormality: comparisons in three European countries. Drake H, et al. **Clin Genet** 1996 Mar;49(3):134–40

Parents' and pediatricians' views of individuals with meningomyelocele. Blaymore Bier JA, et al. **Clin Pediatr (Phila)** 1996 Mar;35(3):113–7

Expectations, goals, and perceived effectiveness of child health supervision: a study of mothers in a pediatric practice. Cheng TL, et al. **Clin Pediatr (Phila)** 1996 Mar; 35(3):129–37

Parental presence during lumbar puncture: anxiety and attitude toward the procedure. Haimi-Cohen Y, et al. **Clin Pediatr (Phila)** 1996 Jan;35(1):2–4

The association between parental health beliefs and immunization status among children followed by private pediatricians. Taylor JA, et al. **Clin Pediatr (Phila)** 1996 Jan;35(1):18–22

Differences in health care utilization between parents who perceive their child as vulnerable versus overprotective parents. Thomasgard M, et al. **Clin Pediatr (Phila)** 1996 Jun;35(6):303–8

Psychological factors affecting health after toxicological disasters. Havenaar JM, et al. **Clin Psychol Rev** 1997; 17(4):359–74 (90 ref.)

See no evil, hear no evil, speak no evil: why do relatively few male victims of childhood sexual abuse receive help for abuse-related issues in adulthood? Holmes GR, et al. **Clin Psychol Rev** 1997;17(1):69–88 (80 ref.)

Canada's organ shortage is severe and getting worse. Baer N. **CMAJ** 1997 Jul 15;157(2):179–82

Tobacco and health care [letter; comment] Finlayson R. **CMAJ** 1997 Jul 15;157(2):133; discussion 133–4. Comment on: Can Med Assoc J 1997 Jan 15;156(2):240A–240F.

Growing popularity of complementary medicine leads to national organization for MDs. Gray C. **CMAJ** 1997 Jul 15;157(2):186–8

Perceptions of the risks and benefits of orthodontic treatment. McComb JL, et al. **Community Dent Health** 1996 Sep; 13(3):133–8

Dental knowledge, attitudes towards oral health care and utilization of dental services among male industrial workers

with or without an employer-provided dental benefit scheme. Ahlberg J, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):380-4
Analysis of adolescents' beliefs about the outcome of using dental floss and drinking non-sugared mineral water. Astrøm AN, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):211-6
Impact on English dentists of the threat of HIV infection. Craven RC, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):228-9
Understanding decision-making processes for sugar consumption in adolescence. Freeman R, et al. **Community Dent Oral Epidemiol** 1997 Jun;25(3):228-32
Quality of dental care: the view of regular attenders. Goedhart H, et al. **Community Dent Oral Epidemiol** 1996 Feb;24(1):28-31
Prevalence of perceived symptoms of dry mouth in an adult Swedish population--relation to age, sex and pharmacotherapy. Nederfors T, et al. **Community Dent Oral Epidemiol** 1997 Jun;25(3):211-6
Attitudes to malocclusion among 18- and 35-year-old Norwegians. Stenvik A, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):390-3
A comparison of the subjective oral health status of older adults from deprived and affluent communities. Tickle M, et al. **Community Dent Oral Epidemiol** 1997 Jun; 25(3):217-22
Structural comparison of a translated dental attitude questionnaire: a factor analytic study. Timmerman EM, et al. **Community Dent Oral Epidemiol** 1996 Aug;24(4):236-9
Equality in satisfaction, perceived need, and utilization of dental care in a 50-year old Swedish population. Unell L, et al. **Community Dent Oral Epidemiol** 1996 Jun; 24(3):191-5
Use of Dental Coping Beliefs Scale to measure cognitive changes following oral hygiene interventions. Wolfe GR, et al. **Community Dent Oral Epidemiol** 1996 Feb;24(1):37-41
Clinical determinants of a parent's satisfaction with the appearance of a child's teeth. Woodward GL, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):416-8
Neighbors' perceptions of group homes. Cook JR. **Community Ment Health J** 1997 Aug;33(4):287-99
Alternatives to conventional hormone replacement therapy. Taylor M. **Compr Ther** 1997 Aug;23(8):514-32 (88 ref.)
Intergroup similarities in judgements of psychiatric symptom severity. Johnson RC, et al. **Cult Divers Ment Health** 1997; 3(1):61-8
Egg phobia in retirement homes: health risk perceptions among elderly Chinese. Lew-Ting CY. **Cult Med Psychiatry** 1997 Mar;21(1):27-51
Is there a pathology of prevention? The implications of visualizing the invisible in screening programs. Sachs L. **Cult Med Psychiatry** 1995 Dec;19(4):503-25
Relationship between objective and subjective sleep measures in depressed patients and healthy controls. Armitage R, et al. **Depress Anxiety** 1997;5(2):97-102
Depressive symptoms: associations with health perceptions and health behaviors. Lynch D, et al. **Depression** 1996; 4(2):68-72
'Patient's delay'--analysis of the preclinical phase of occupational dermatoses. Rusca C, et al. **Dermatology** 1997; 194(1):50-2
How have patients reacted to the implications of the DCCT? Thompson CJ, et al. **Diabetes Care** 1996 Aug;19(8):876-9
Rehabilitation interventions: ideas based on a South Pacific example. Gregory RJ. **Disabil Rehabil** 1996 Jan;18(1):47-51
Membership of the University of the Third Age (U3A) and perceived well-being. Mitchell RA, et al. **Disabil Rehabil** 1997 Jun;19(6):244-8
Disasters, the media and social structures: a typology of credibility hierarchy persistence based on a newspaper coverage of the Love Canal and six other disasters. Ploughman P. **Disasters** 1997 Jun;21(2):118-37 (79 ref.)
Smoking habits and attitudes in a methadone maintenance treatment population. Clemmey P, et al. **Drug Alcohol Depend** 1997 Mar 14;44(2-3):123-32
Beliefs about steroids: user vs. non-user comparisons. Schwerin MJ, et al. **Drug Alcohol Depend** 1996 Mar; 40(3):221-5
Refinement and psychometric evaluation of the Attitudes Toward Loss of Hearing Questionnaire. Saunders GH, et al. **Ear Hear** 1996 Dec;17(6):505-19
The need for a balanced emphasis in infertility [letter] Alemnji GA, et al. **East Afr Med J** 1997 Feb;74(2):119
Anniversaries and attitudes [editorial] Hook GE, et al. **Environ Health Perspect** 1997 Apr;105(4):360
Patient-validated content of epilepsy-specific quality-of-life measurement. Gilliam F, et al. **Epilepsia** 1997 Feb; 38(2):233-6
Pain and discomfort during mammography. Aro AR, et al. **Eur J Cancer** 1996 Sep;32A(10):1674-9
Measuring the meaning of life for patients with incurable cancer: the life evaluation questionnaire (LEQ). Salmon P, et al. **Eur J Cancer** 1996 May;32A(5):755-60
Sources used and trusted by nationally-representative adults in the European Union for information on healthy eating. de Almeida MD, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S16-22
Stages of dietary change among nationally-representative samples of adults in the European Union. de Graaf C, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S47-56
IEFS pan-EU survey of consumer attitudes to food, nutrition and health. Gibney MJ, et al. **Eur J Clin Nutr** 1997 Jun; 51 Suppl 2:S2; S57-8
Methods used to conduct the survey on consumer attitudes to food, nutrition and health on nationally representative samples of adults from each member state of the European Union. Kearney M, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S3-7
Perceived need to alter eating habits among representative samples of adults from all member states of the European Union. Kearney M, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S30-5
Difficulties in trying to eat healthier: descriptive analysis of perceived barriers for healthy eating. Lappalainen R, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S36-40
Definitions of 'healthy' eating: a pan-EU survey of consumer attitudes to food, nutrition and health. Margetts BM, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S23-9
Eating habits, food and health related attitudes and beliefs reported by French students. Monneuse MO, et al. **Eur J Clin Nutr** 1997 Jan;51(1):46-53
Longitudinal changes in dietary habits and attitudes of elderly Europeans. SENECA Investigators. Schlettwein-Gsell, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 2:S56-66
Perceived benefits of healthy eating among a nationally-representative sample of adults in the European Union. Zunft HJ, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S41-6
Demographic and behavioral predictors of knowledge and HIV seropositivity: results of a survey conducted in three anonymous and free counselling and testing centers. Momas I, et al. **Eur J Epidemiol** 1997 Apr;13(3):255-60
Adolescents' attitude towards carrier testing for cystic fibrosis [letter; comment] Mélançon MJ, et al. **Eur J Hum Genet** 1996;4(6):305-6. Comment on: Eur J Hum Genet 1996;4(1):52-62.
A longitudinal study on subjective and objective orthodontic treatment need. Stenvik A, et al. **Eur J Orthod** 1997 Feb; 19(1):85-92
Lay attitudes to dental appearance and need for orthodontic treatment. Stenvik A, et al. **Eur J Orthod** 1997 Jun; 19(3):271-7
Diagnostic delay in neurofibromatosis type 1. Cnossen MH, et al. **Eur J Pediatr** 1997 Jun;156(6):482-7
To dress or not to dress surgical wounds? Patients' attitudes to wound care after major abdominal operations. Persson M, et al. **Eur J Surg** 1995 Nov;161(11):791-3; discussion 794
Physical activity, adolescence, and health: an epidemiological perspective. Aaron DJ, et al. **Exerc Sport Sci Rev** 1997; 25:391-405 (62 ref.)
Differences between diabetic patients who do and do not respond to a diabetes care intervention: a qualitative analysis. O'Connor PJ, et al. **Fam Med** 1997 Jun;29(6):424-8
The measurement of public opinion on abortion: the effects of survey design. Bumpass LL. **Fam Plann Perspect** 1997 Jul-Aug;29(4):177-80
My family dies from heart attacks. How hypercholesterolaemic men refer to their family history. Brorsson A, et al. **Fam Pract** 1995 Dec;12(4):433-7
'It would be good to know you're not alone': the health care needs of women with menstrual symptoms. Byles JE, et al. **Fam Pract** 1997 Jun;14(3):249-54
Women worried about their familial breast cancer risk--a study on genetic advice in general practice. de Bock GH, et al. **Fam Pract** 1997 Feb;14(1):40-3
The effect of a computer-generated patient-held medical record summary and/or a written personal health record on patients' attitudes, knowledge and behaviour concerning health promotion. Liaw T, et al. **Fam Pract** 1996 Jun; 13(3):289-93
Metaphorically transmitted diseases. How do patients embody medical explanations? Mabeck CE, et al. **Fam Pract** 1997 Aug;14(4):271-8
The impact of the October 1995 'pill scare' on oral contraceptive use in the United Kingdom: analysis of a general practice automated database. Martin RM, et al. **Fam Pract** 1997 Aug;14(4):279-84
Patients' experience of epilepsy and health care. Mills N, et al. **Fam Pract** 1997 Apr;14(2):117-23
Differences in meanings of health: and exploratory study of general practitioners and their patients. St Claire L, et al. **Fam Pract** 1996 Dec;13(6):511-6
Family climate and expressed emotion in the course of alcoholism. Fichter MM, et al. **Fam Process** 1997 Jun; 36(2):203-21
Family values, religiosity, and emotional reactions to schizophrenia in Mexican and Anglo-American cultures. Weisman AG, et al. **Fam Process** 1996 Jun;35(2):227-37
Attitudes towards alcohol use among Bulgarians-Christians and Turks-Muslims. Akabaliev V, et al. **Folia Med (Plovdiv)** 1997;39(1):7-12
Death on a psychiatric inpatient unit. Effect on a subgroup of schizophrenic patients. Trappler B, et al. **Gen Hosp Psychiatry** 1996 Jul;18(4):261-5
5th European Meeting on Psychosocial Aspects of Genetics. Rome, Italy, September 26-28, 1996. Abstracts. **Genet Couns** 1997;8(2):147-86
Attitudes of German persons at risk for Huntington's disease toward predictive and prenatal testing. Kreuz FR. **Genet Couns** 1996;7(4):303-11
Worrying about health: a uniquely American pastime? Anderson EG. **Geriatrics** 1996 Sep;51(9):56-7
The influence of community context on the preferences of older adults for entering a nursing home. Peek CW, et al. **Gerontologist** 1997 Aug;37(4):533-42
A note on the Nuer. Bouchard LD. **Hastings Cent Rep** 1996 Jan-Feb;26(1):15-6
"Decoding" informed consent. Insights from women regarding breast cancer susceptibility testing. Geller G, et al. **Hastings Cent Rep** 1997 Mar-Apr;27(2):28-33
Analgesic drug taking: beliefs and behavior among headache patients. Ferrari A, et al. **Headache** 1997 Feb;37(2):88-94
Privatizing Medicare: a battle of values. Cain HP 2nd. **Health Aff (Millwood)** 1997 Mar-Apr;16(2):181-6
The discounting of lives saved in future generations--some empirical results. Johannesson M, et al. **Health Econ** 1996 Jul-Aug;5(4):329-32
Valuation of health changes with the contingent valuation method: a test of scope and question order effects. Kartman B, et al. **Health Econ** 1996 Nov-Dec;5(6):531-41
Using willingness to pay to assess the benefits of assisted reproductive techniques. Ryan M. **Health Econ** 1996 Nov-Dec;5(6):543-58
Bridging the gap between public expectations and public willingness to pay [editorial] Smee CH. **Health Econ** 1997 Jan-Feb;6(1):1-9
Adolescents' perceptions of health concerns: an exploratory study among rural midwestern youth. Weiler RM. **Health Educ Behav** 1997 Jun;24(3):287-99
Health locus of control and value for health in smokers and nonsmokers. Bennett P, et al. **Health Psychol** 1997 Mar; 16(2):179-82
Coping styles associated with psychological adjustment to advanced breast cancer. Classen C, et al. **Health Psychol** 1996 Nov;15(6):434-7
A longitudinal study of the reciprocal nature of risk behaviors and cognitions in adolescents: what you do shapes what you think, and vice versa. Gerrard M, et al. **Health Psychol** 1996 Sep;15(5):344-54
Smoker networks and the "typical smoker": a prospective analysis of smoking cessation. Gibbons FX, et al. **Health Psychol** 1996 Nov;15(6):469-77
Incorporating biomarkers of exposure and genetic susceptibility into smoking cessation treatment: effects on smoking-related cognitions, emotions, and behavior change. Lerman C, et al. **Health Psychol** 1997 Jan; 16(1):87-99
Assessment of self-efficacy and coping with cancer: development and validation of the cancer behavior inventory. Merluzzi TV, et al. **Health Psychol** 1997 Mar; 16(2):163-70
Validation of susceptibility as a predictor of which adolescents take up smoking in the United States. Pierce JP, et al. **Health Psychol** 1996 Sep;15(5):355-61
Lay American conceptions of nutrition: dose insensitivity, categorical thinking, contagion, and the monotonic mind. Rozin P, et al. **Health Psychol** 1996 Nov;15(6):438-47
Causal attributions predict rate of immune decline in HIV-seropositive gay men. Segerstrom SC, et al. **Health Psychol** 1996 Nov;15(6):485-93
Self-esteem and the relation between risk behavior and perceptions of vulnerability to unplanned pregnancy in college women. Smith GE, et al. **Health Psychol** 1997 Mar; 16(2):137-46
Three-year follow-up after presymptomatic testing for Huntington's disease in tested individuals and partners. Tibben A, et al. **Health Psychol** 1997 Jan;16(1):20-35
Testing for HIV and other sexually transmitted diseases: implications for risk behavior in women. Wilson TE, et al. **Health Psychol** 1996 Jul;15(4):252-60
Mothers' satisfaction with medical care: perceptions of racism, family stress, and medical outcomes in children with diabetes. Auslander WF, et al. **Health Soc Work** 1997 Aug;22(3):190-9
Perceived learning needs of patients with coronary artery disease using a questionnaire assessment tool. Czar ML, et al. **Heart Lung** 1997 Mar-Apr;26(2):109-17
Qualitative analysis of patients' work during mechanical ventilation and weaning. Logan J, et al. **Heart Lung** 1997 Mar-Apr;26(2):140-7
Turning points of recovery from cardiac surgery during the intensive care unit transition. Shih FJ, et al. **Heart Lung** 1997 Mar-Apr;26(2):99-108
Perceptions of patients with cardiovascular disease about the causes of coronary artery disease. Zerwic JJ, et al. **Heart Lung** 1997 Mar-Apr;26(2):92-8
Analysis of the attitudes and emotional processes in couples undergoing artificial insemination by donor. Rojo-Moreno J, et al. **Hum Reprod** 1996 Feb;11(2):294-9
Preimplantation diagnosis and other reproductive options: attitudes of male and female carriers of recessive disorders. Snowdon C, et al. **Hum Reprod** 1997 Feb;12(2):341-50
Nurse-expressed empathy, patient outcomes, and development of a middle-range theory. Olson J, et al. **Image J Nurs Sch** 1997 Spring;29(1):71-6
Health beliefs and social influence in home safety practices of mothers with preschool children. Russell KM, et al. **Image J Nurs Sch** 1996 Spring;28(1):59-64
Women's experience of bed rest in high-risk pregnancy [see comments] Schroeder CA. **Image J Nurs Sch** 1996 Fall; 28(3):253-8. Comment in: Image J Nurs Sch 1997 Spring;29(1):8.
Influenza vaccination of healthcare workers. Nichol KL, et al. **Infect Control Hosp Epidemiol** 1997 Mar;18(3):189-94

ATTITUDE TO HEALTH

The effect on patients of non-referral for skull radiography following mild head injury. McNally E, et al. **Injury** 1996 Jul;27(6):429–31

Death and reputation: how consumers acted upon HCFA mortality information. Mennemeyer ST, et al. **Inquiry** 1997 Summer;34(2):117–28

Preferences for schizophrenia-related health states: a comparison of patients, caregivers and psychiatrists. Revicki DA, et al. **Int Clin Psychopharmacol** 1996 Jun; 11(2):101–8

The elderly in a period of transition in Sofia [letter] Petrov I, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):773–4

Expectations and fears of women regarding two methods of prenatal screening. Esen UI, et al. **Int J Gynaecol Obstet** 1997 May;57(2):193–4

Toward a social structural understanding of occupational hazards in public health. Skillen DL. **Int J Health Serv** 1996;26(1):111–46

The future of health care in six European countries: the views of policy elites. Taylor-Gooby P. **Int J Health Serv** 1996; 26(2):203–19

Patient perceptions of coercion in mental hospital admission. Hiday VA, et al. **Int J Law Psychiatry** 1997 Spring; 20(2):227–41

Public perceptions of a health visitor. Kelly C. **Int J Nurs Stud** 1996 Jun;33(3):285–96

Breastfeeding beliefs of low-income primigravidae. Libbus K, et al. **Int J Nurs Stud** 1997 Apr;34(2):144–50

The Jehovah's Witness family, transfusions, and pediatric day surgery. Morrison JE Jr, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jan 3;38(3):197–205; discussion 207–13

Factors influencing the type of health problems presented by women in general practice: differences between women's health care and regular health care. van den Brink-Muinen A, et al. **Int J Psychiatry Med** 1996; 26(4):461–78

Patients' and carers' satisfaction with hospital-in-the-home care. Montalto M. **Int J Qual Health Care** 1996 Jun; 8(3):243–51

Patient attitudes to major surgery in rural Kenya. Nordberg E, et al. **Int J Qual Health Care** 1996 Jun;8(3):265–9

Users' views of a drop-in project for the homeless. Bhugra D, et al. **Int J Soc Psychiatry** 1997 Summer;43(2):95–103

Attitudes towards mental patients in Hong Kong. Chou KL, et al. **Int J Soc Psychiatry** 1996 Autumn;42(3):213–9

Nutrition beliefs, attitudes, and resource use of high school wrestling coaches. Sossin K, et al. **Int J Sport Nutr** 1997 Sep;7(3):219–28

Nutrition knowledge, eating practices, and health of adolescent female runners: a 3-year longitudinal study. Wiita BG, et al. **Int J Sport Nutr** 1996 Dec;6(4):414–25

Patient attitudes to perioperative suppository administration for postoperative analgesia. Carroll M, et al. **Ir J Med Sci** 1996 Oct-Dec;165(4):286–8

Suboptimal compliance with periconceptual folic acid in an Irish hospital population. Milner M, et al. **Ir Med J** 1996 Jan-Feb;89(1):28–30

Reported health concerns of Israeli high school students--differences by age and sex. Palti H, et al. **Isr J Med Sci** 1997 Feb;33(2):123–8

The Brief Reasons for Living Inventory for Adolescents (BRFL-A). Osman A, et al. **J Abnorm Child Psychol** 1996 Aug;24(4):433–43

Embedded anti-alcohol messages on commercial television: what teenagers perceive. Borzekowski DL. **J Adolesc Health** 1996 Nov;19(5):345–52

Psychosocial conventionality, health orientation, and contraceptive use in adolescence. Costa FM, et al. **J Adolesc Health** 1996 Jun;18(6):404–16

Parental influences on the dieting beliefs and behaviors of adolescent females in New Zealand. Dixon R, et al. **J Adolesc Health** 1996 Oct;19(4):303–7

Substance use: toward an understanding of its relation to nutrition-related attitudes and behavior among Israeli high school youth. Isralowitz RE, et al. **J Adolesc Health** 1996 Sep;19(3):184–9

Premenarcheal expectations and postmenarcheal experiences of positive and negative menstrual related changes. Koff E, et al. **J Adolesc Health** 1996 Apr;18(4):286–91

Student attitudes toward school-based health centers. Santelli J, et al. **J Adolesc Health** 1996 May;18(5):349–56

Health beliefs and intention to get immunized for HIV. Zimet GD, et al. **J Adolesc Health** 1997 May;20(5):354–9

Do women want women health workers? Women's views of the primary health care service. Brooks F, et al. **J Adv Nurs** 1996 Jun;23(6):1207–11

A self-assessment tool to measure older adults' perceptions regarding physical fitness and exercise activity. Devereaux Melillo K, et al. **J Adv Nurs** 1997 Jun;25(6):1220–6

Stress and quality of life in the renal transplant patient: a preliminary investigation. Fallon M, et al. **J Adv Nurs** 1997 Mar;25(3):562–70

The politics of sex research and constructions of female sexuality: what relevance to sexual health work with young women? Few C. **J Adv Nurs** 1997 Mar;25(3):615–25 (95 ref.)

Health as an individual's way of existence. Häggman-Laitila A. **J Adv Nurs** 1997 Jan;25(1):45–53

Incorporating outpatient perceptions into definitions of quality. Hart M. **J Adv Nurs** 1996 Dec;24(6):1234–40 (36 ref.)

Support as experienced by patients with cancer during radiotherapy treatments. Hinds G, et al. **J Adv Nurs** 1997 Aug;26(2):371–9

A concept analysis of trust. Johns JL. **J Adv Nurs** 1996 Jul; 24(1):76–83 (40 ref.)

Physical and social correlates of perceived psychological support among hospitalized AIDS patients. Kataoka-Yahiro MR, et al. **J Adv Nurs** 1996 Jul; 24(1):167–73

Population views on access to community nursing services in Finland. Koponen P, et al. **J Adv Nurs** 1996 Oct; 24(4):727–35

Engagement and detachment: understanding patients' experiences with nursing. Kralik D, et al. **J Adv Nurs** 1997 Aug;26(2):399–407

Patients' needs in hospital: nurses' and patients' views. Lauri S, et al. **J Adv Nurs** 1997 Feb;25(2):339–46

Health within illness: experiences of chronically ill/disabled people. Lindsey E. **J Adv Nurs** 1996 Sep;24(3):465–72

A study to ascertain gynaecological patients' perceived levels of embarrassment with physical and psychological care given by female and male nurses. Lodge N, et al. **J Adv Nurs** 1997 May;25(5):893–907

Meaning of illness for women with breast cancer. Luker KA, et al. **J Adv Nurs** 1996 Jun;23(6):1194–201

Male patients with congestive heart failure and their conception of the life situation. Mårtensson J, et al. **J Adv Nurs** 1997 Mar;25(3):579–86

Patients' perceptions of pre-operative preparation for day surgery. Mitchell M. **J Adv Nurs** 1997 Aug;26(2):356–63

Self-reported family health and well-being after early discharge from maternity hospital: a phenomenological study. Paavilainen R, et al. **J Adv Nurs** 1997 Aug; 26(2):266–72

Methodological issues conducting sensitive research on lesbian and gay men's experience of nursing care. Platzer H, et al. **J Adv Nurs** 1997 Mar;25(3):626–33 (32 ref.)

Patients' experiences of long-term oxygen therapy. Ring L, et al. **J Adv Nurs** 1997 Aug;26(2):337–44

The patients' experiences of their chronic non-malignant pain. Seers K. **J Adv Nurs** 1996 Dec;24(6):1160–8

Getting sick and getting well: a qualitative study of aetiologic explanations of people with cancer. Tishelman C. **J Adv Nurs** 1997 Jan;25(1):60–7

Women's experiences of non-invasive breast cancer: literature review and study report. Webb C, et al. **J Adv Nurs** 1997 Mar;25(3):514–25 (62 ref.)

The relationship of self-perception of illness and compliance with health care regimens. Wichowski HC, et al. **J Adv Nurs** 1997 Mar;25(3):548–53

Influence of sexual abuse on HIV-related attitudes and behaviors in adolescent psychiatric inpatients. Brown LK, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Mar; 36(3):316–22

Community perceptions about the important signs of early melanoma. Baade PD, et al. **J Am Acad Dermatol** 1997 Jan;36(1):33–9

Conflicting national recommendations and the use of screening mammography: does the physician's recommendation matter? Taplin SH, et al. **J Am Board Fam Pract** 1997 Mar-Apr;10(2):88–95

Dentists' HIV-related ethicality: an empirical test [letter] Gherardi RJ. **J Am Coll Dent** 1997 Summer;64(2):5

College student reasoning about illness and psychological concepts. Oprendek TS, et al. **J Am Coll Health** 1997 Jul; 46(1):10–9

Health trends among college freshmen. Sax LJ. **J Am Coll Health** 1997 May;45(6):252–62

Health education improves older subjects' attitudes toward urinary incontinence and access to care: a randomized study in sheltered accommodation centers for the aged [letter] Béguin AM, et al. **J Am Geriatr Soc** 1997 Mar; 45(3):391–2

Predictors of perceived health in hospitalized older persons: a cross-sectional and longitudinal study. Kim SH, et al. **J Am Geriatr Soc** 1997 Apr;45(4):420–6

How older patient preferences are influenced by consideration of future health outcomes. Mazur DJ. **J Am Geriatr Soc** 1997 Jun;45(6):725–8

The relationship between self-rated health and depressive symptoms in an epidemiological sample of community-dwelling older adults. Mulsant BH, et al. **J Am Geriatr Soc** 1997 Aug;45(8):954–8

The Human Genome Project: view from the National Institutes of Health. Fink L, et al. **J Am Med Womens Assoc** 1997 Winter;52(1):4–7, 15 (16 ref.)

Men's and women's information needs when selecting a health plan: results of a national survey. Isaacs SL. **J Am Med Womens Assoc** 1997 Spring;52(2):57–9

The revival of eugenics in American popular culture. Nelkin D, et al. **J Am Med Womens Assoc** 1997 Winter;52(1):45–6

Genetic counseling and prenatal diagnosis: a multicultural perspective. Puñales-Morejon D. **J Am Med Womens Assoc** 1997 Winter;52(1):30–2

Interpretive bias for benign sensations in panic disorder with agoraphobia. Kamieniecki GW, et al. **J Anxiety Disord** 1997 Mar-Apr;11(2):141–56

Helping others: a response to HIV disease. Gaskins S, et al. **J Assoc Nurses AIDS Care** 1997 May-Jun;8(3):35–9

Complementary and alternative medicine and HIV/AIDS. Part I: Issues and context. MacIntyre RC, et al. **J Assoc Nurses AIDS Care** 1997 Jan-Feb;8(1):23–31 (54 ref.)

Health beliefs of adults with asthma: toward an understanding of the difference between symptomatic and preventive use of inhaler treatment. Hand CH, et al. **J Asthma** 1996; 33(5):331–8

Articulation of asthma and its care among low-income emergency care recipients. Munro JF, et al. **J Asthma** 1996; 33(5):313–25

Skin type and optimistic bias in relation to the sun protection and suntanning behaviors of young adults. Clarke VA, et al. **J Behav Med** 1997 Apr;20(2):207–22

The effects of anxiety on response times to disease detection and health promotion behaviors. Millar MG, et al. **J Behav Med** 1996 Aug;19(4):401–13

Individual differences in the perception of optimism and disease severity: a study among individuals with Parkinson's disease. Shifren K. **J Behav Med** 1996 Jun; 19(3):241–71

Is it worth the risk? [editorial] Crawford PR. **J Can Dent Assoc** 1996 Jul;62(7):545

Attitudes about skin cancer prevention: a qualitative study. Gerbert B, et al. **J Cancer Educ** 1996 Summer;11(2):96–101

Hypertension in an inner-city minority population. Wieck KL. **J Cardiovasc Nurs** 1997 Jul;11(4):41–9

Physical symptoms and illness attitudes in adolescents: an epidemiological study. Eminson M, et al. **J Child Psychol Psychiatry** 1996 Jul;37(5):519–28

An empirical approach to informed consent in ovarian cancer. Feldman-Stewart D, et al. **J Clin Epidemiol** 1996 Nov;49(11):1259–69

Hereditary cancer risk notification and testing: how interested is the general population? Andrykowski MA, et al. **J Clin Oncol** 1997 May;15(5):2139–48

Measurement of patient-derived utility values for periodontal health using a multi-attribute scale. Bellamy CA, et al. **J Clin Periodontol** 1996 Sep;23(9):805–9

The dark side of laughter: males and U.S. health care. Kilwein JH. **J Clin Pharm Ther** 1997 Feb;22(1):1–2

The role of the alliance in the pharmacologic treatment of depression. Weiss M, et al. **J Clin Psychiatry** 1997 May; 58(5):196–204

Support group membership and perceptions of control over health in HIV+ men. Fontaine KR, et al. **J Clin Psychol** 1997 Apr;53(3):249–52

Gender and patterns of alcohol problems: pretreatment responses of women and men to the comprehensive drinker profile. Miller WR, et al. **J Clin Psychol** 1997 Apr; 53(3):263–77

Is health locus of control a 3-factor or a 2-factor construct? Talbot F, et al. **J Clin Psychol** 1996 Sep;52(5):559–68

Effects of speech and language disorders on raters' perceptions. Williams DF, et al. **J Commun Disord** 1996 Jan-Feb;29(1):1–12

Regular exercise in 30- to 60-year-old men: combining the stages-of-change model and the theory of planned behavior to identify determinants for targeting heart health interventions. Nguyen MN, et al. **J Community Health** 1997 Aug;22(4):233–46

Playing jeopardy with public health: an old threat for a new century. Steppe AR. **J Community Health** 1996 Aug; 21(4):237–9

Association between time homeless and perceived health status among the homeless in San Francisco. White MC, et al. **J Community Health** 1997 Aug;22(4):271–82

Prenatal care for low-income women and the health belief model: a new beginning. Stout AE. **J Community Health Nurs** 1997;14(3):169–80 (21 ref.)

Structure of health risk behavior among high school students. Basen-Engquist K, et al. **J Consult Clin Psychol** 1996 Aug; 64(4):764–75

What is a reasonable weight loss? Patients' expectations and evaluations of obesity treatment outcomes. Foster GD, et al. **J Consult Clin Psychol** 1997 Feb;65(1):79–85

Fatalism, current life satisfaction, and risk for HIV infection among gay and bisexual men. Kalichman SC, et al. **J Consult Clin Psychol** 1997 Aug;65(4):542–6

Promoting healthier behaviors, attitudes, and beliefs toward sun exposure in parents of young children. Rodrigue JR. **J Consult Clin Psychol** 1996 Dec;64(6):1431–6

Clients' expectancies and their relationship to pretreatment symptomatology and outcome of cognitive-behavioral group treatment for social phobia. Safren SA, et al. **J Consult Clin Psychol** 1997 Aug;65(4):694–8

Society and the not-so-new genetics: what are we afraid of? Some future predictions from a social scientist. Wertz DC. **J Contemp Health Law Policy** 1997 Spring; 13(2):299–345 (130 ref.)

Searching for solutions: the importance of including teenagers in the research process. Ginsburg KR. **J Dev Behav Pediatr** 1996 Aug;17(4):255–7

The relations of school staff smokers' attitudes about modeling smoking behavior in students and their receptivity to no-smoking policy. Galaif ER, et al. **J Drug Educ** 1996;26(4):313–22

Perceived dangerousness of recreational drugs. Luce TS, et al. **J Drug Educ** 1995;25(4):297–306

Salience of alcohol expectancies and drinking outcomes. Reese FL. **J Drug Educ** 1997;27(1):43–51

Gender differences regarding peer influence and attitude toward substance abuse. Rienzi BM, et al. **J Drug Educ** 1996;26(4):339–47

Family communication patterns, rebelliousness, and adolescent reactions to anti-drug PSAs. Skinner ER, et al. **J Drug Educ** 1995;25(4):343–55

Hey Bubba, what's the disease du jour? Sternbach G, et al. **J Emerg Med** 1997 May–Jun;15(3):407–8

Comparison between the Health Belief Model and Subjective Expected Utility Theory: predicting incontinence prevention behaviour in post-partum women. Dolman M, et al. **J Eval Clin Pract** 1996 Aug;2(3):217–22

Integrating faith and illness into practice [letter; comment] Lijoi AF. **J Fam Pract** 1997 Jul;45(1):15. Comment on: J Fam Pract 1997 Mar;44(3):254–6.

Patient knowledge of upper respiratory infections: implications for antibiotic expectations and unnecessary utilization. Mainous AG 3rd, et al. **J Fam Pract** 1997 Jul; 45(1):75–83

Uncommon courage. Stein HF. **J Fam Pract** 1996 Sep; 43(3):215–6

Do adolescents want to hear preventive counseling messages in outpatient settings? Steiner BD, et al. **J Fam Pract** 1996 Oct;43(4):375–81

Tobacco use initiation. Future intentions to use, and attitudes toward use in sample of Florida 5th-graders. McDermott RJ, et al. **J Fla Med Assoc** 1996 Feb;83(2):93–5

Identification of patient attitudes and preferences regarding treatment of depression. Cooper-Patrick L, et al. **J Gen Intern Med** 1997 Jul;12(7):431–8

Kidney transplant candidates' views of the transplant allocation system. Louis ON, et al. **J Gen Intern Med** 1997 Aug;12(8):478–84

Sex role conflict, social desirability, and eating-disorder attitudes and behaviors. Johnson ME, et al. **J Gen Psychol** 1996 Jan;123(1):75–87

A study and meta-analysis of lay attributions of cures for overcoming specific psychological problems. Furnham A, et al. **J Genet Psychol** 1997 Sep;158(3):315–31

Preferences for different life-sustaining treatments among elderly persons in Israel. Carmel S, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar;52(2):S97–102

Subject-caregiver response comparability on global health and functional status measures for African American, Puerto Rican, and Caucasian elders and their primary caregivers. Lawrence RH, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar;52(2):S103–11

Psychological influences on pain perception and non-pharmacologic approaches to the treatment of pain. DePalma MT, et al. **J Hand Ther** 1997 Apr–Jun; 10(2):183–91 (68 ref.)

Eye on patients: excerpts from a report on patients' concerns and experiences about the health care system. American Hospital Association and the Picker Institute. **J Health Care Finance** 1997 Summer;23(4):2–11

How Americans perceive the health care system: a report on a national survey. National Coalition on Health Care. **J Health Care Finance** 1997 Summer;23(4):12–20

Language, sociodemographics, and health care use of Hispanic adults. Schur CL, et al. **J Health Care Poor Underserved** 1996 May;7(2):140–58

Ethnic differences in temporal orientation and its implications for hypertension management. Brown CM, et al. **J Health Soc Behav** 1996 Dec;37(4):350–61

Health trajectories: long-term dynamics among black and white adults. Ferraro KF, et al. **J Health Soc Behav** 1997 Mar;38(1):38–54

Self-rated health and mortality: a review of twenty-seven community studies. Idler EL, et al. **J Health Soc Behav** 1997 Mar;38(1):21–37 (95 ref.)

Hypertension awareness, treatment and control in the community: is the 'rule of halves' still valid? Marques-Vidal P, et al. **J Hum Hypertens** 1997 Apr;11(4):213–20 (78 ref.)

Wellness--a new concept [editorial] Hegde BM. **J Indian Med Assoc** 1996 Aug;94(8):286–8

Pan-European survey of patients' attitudes to antibiotics and antibiotic use. Branthwaite A, et al. **J Int Med Res** 1996 May–Jun;24(3):229–38

Healthy aging: the body/mind/spirit connection. Schotanus WM. **J Med Assoc Ga** 1997 Apr;86(2):127–8

Resuscitating the elderly: what do the patients want? Bruce-Jones P, et al. **J Med Ethics** 1996 Jun;22(3):154–9

Should doctors inform terminally ill patients? The opinions of nationals and doctors in the United Arab Emirates. Harrison A, et al. **J Med Ethics** 1997 Apr;23(2):101–7

Random paired scenarios--a method for investigating attitudes to prioritisation in medicine. Ryynänen OP, et al. **J Med Ethics** 1996 Aug;22(4):238–42

Attitudes towards cancer predictive testing and transmission of information to the family. Julian-Reynier C, et al. **J Med Genet** 1996 Sep;33(9):731–6

The new triad: responsibility, solidarity, and subsidiarity. Sass HM. **J Med Philos** 1995 Dec;20(6):587–94

An exploratory study of male recovering substance abusers living in a self-help, self-governed setting. Jason LA, et al. **J Ment Health Adm** 1997 Summer;24(3):332–9

How about listening to the choir [letter] Bower JD. **J Miss State Med Assoc** 1996 Mar;37(3):507

Public opinion on psychotropic drugs: an analysis of the factors influencing acceptance or rejection. Benkert O, et al. **J Nerv Ment Dis** 1997 Mar;185(3):151–8

Awareness of illness in schizophrenia and outpatient treatment adherence. Cuffel BJ, et al. **J Nerv Ment Dis** 1996 Nov;184(11):653–9

Absorption, social desirability, and symptoms in a behavioral medicine population. Gick M, et al. **J Nerv Ment Dis** 1997 Jul;185(7):454–8

Inuit attitudes toward deviant behavior: a vignette study. Kirmayer LJ, et al. **J Nerv Ment Dis** 1997 Feb;185(2):78–86

The phenomenology of traumatic reactions to psychotic illness. Shaw K, et al. **J Nerv Ment Dis** 1997 Jul; 185(7):434–41

First impressions of the nurse and nursing care. Mangum S, et al. **J Nurs Care Qual** 1997 Jun;11(5):39–47

Measuring the perception of choices in the nursing home. Brooke VM, et al. **J Nurs Meas** 1996 Winter;4(2):103–15

Parental evaluation of a tour of the neonatal intensive care unit during a high-risk pregnancy. Griffin T, et al. **J Obstet Gynecol Neonatal Nurs** 1997 Jan–Feb;26(1):59–65

Relationships between the perceived impact of gestational diabetes mellitus and treatment adherence. Persily CA. **J Obstet Gynecol Neonatal Nurs** 1996 Sep;25(7):601–7

Job satisfaction and perceptions of health. Peterson M, et al. **J Occup Environ Med** 1996 Sep;38(9):891–8

Public attitudes toward oral surgery: results of a Gallup poll. Delfino J. **J Oral Maxillofac Surg** 1997 Jun;55(6):564–7

Reported symptoms from the masticatory system and general well-being in rheumatoid arthritis. Kallenberg A, et al. **J Oral Rehabil** 1997 May;24(5):342–9

Chronic illness perception in adolescence: implications for the doctor-patient relationship. Leung SS, et al. **J Paediatr Child Health** 1997 Apr;33(2):107–12

Parents' perceptions towards their child's use of inhaled medications for asthma therapy. Lim SH, et al. **J Paediatr Child Health** 1996 Aug;32(4):306–9

Summary of the Mayday Fund Survey: public attitudes about pain and analgesics. Bostrom M. **J Pain Symptom Manage** 1997 Mar;13(3):166–8

Public attitudes about pain and analgesics: clinical implications. Fins JJ. **J Pain Symptom Manage** 1997 Mar; 13(3):169–71

Clinicians' attitudes about prolonged use of opioids and the issue of patient heterogeneity. Turk DC. **J Pain Symptom Manage** 1996 Apr;11(4):218–30 (51 ref.)

Interviews with men with prostate cancer about their self-help group experience. Gray RE, et al. **J Palliat Care** 1997 Spring;13(1):15–21

Family members' perceptions of palliative cancer care: predictors of family functioning and family members' health. Kristjanson LJ, et al. **J Palliat Care** 1996 Winter; 12(4):10–20

Do nurses and parents of children with chronic conditions agree on parental needs? Graves C, et al. **J Pediatr Nurs** 1996 Oct;11(5):288–99

Swedish Health care personnel's perceptions of disease and treatment-related problems experienced by children with cancer and their families. Enskar K, et al. **J Pediatr Oncol Nurs** 1996 Apr;13(2):61–70; discussion 71

The needs of parents of pediatric oncology patients during the palliative care phase. James L, et al. **J Pediatr Oncol Nurs** 1997 Apr;14(2):83–95

Parent acceptability and feasibility of ADHD interventions: assessment, correlates, and predictive validity. Bennett DS, et al. **J Pediatr Psychol** 1996 Oct;21(5):643–57

The child vulnerability scale: an instrument to measure parental perceptions of child vulnerability. Forsyth BW, et al. **J Pediatr Psychol** 1996 Feb;21(1):89–101

Children's perceptions of peers with AIDS: assessing the impact of contagion information, perceived similarity, and illness conceptualization. Maieron MJ, et al. **J Pediatr Psychol** 1996 Jun;21(3):321–33

Intuitive theories of human immunodeficiency virus transmission: their development and implications. Sigelman CK, et al. **J Pediatr Psychol** 1996 Aug;21(4):555–72

Mothers' beliefs about the causes of infant growth deficiency: is there attributional bias? Sturm LA, et al. **J Pediatr Psychol** 1997 Jun;22(3):329–44

Predicting treatment attendance and weight loss: assessing the psychometric properties and predictive validity of the Dieting Readiness Test. Fontaine KR, et al. **J Pers Assess** 1997 Feb;68(1):173–83

A preliminary analysis of the perceived risks of misusing multiple substances, trait anxiety, and approval motivation. Hittner JB. **J Psychol** 1997 Sep;131(5):501–11

The undertreatment of anxiety: overcoming the confusion and stigma. Blair DT, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Jun;34(6):9–18 (72 ref.)

Is the treatment worse than the cure? Attitudes toward medications among persons with severe mental illness. Van Dongen CJ. **J Psychosoc Nurs Ment Health Serv** 1997 Mar; 35(3):21–5

Attitudes to Papanicolaou smears. Conway K. **J Psychosom Obstet Gynaecol** 1996 Dec;17(4):189–94 (45 ref.)

Successful donor insemination and its impact on recipients. Daniels KR, et al. **J Psychosom Obstet Gynaecol** 1996 Sep; 17(3):129–34

Feelings of couples who have had a child by donor insemination: the degree of congruence. Gillett WR, et al. **J Psychosom Obstet Gynaecol** 1996 Sep;17(3):135–42

Medicalization of women's third age. Kaufert PA, et al. **J Psychosom Obstet Gynaecol** 1997 Jun;18(2):81–6 (7 ref.)

The social construction of menopause as risk. Palmlund I. **J Psychosom Obstet Gynaecol** 1997 Jun;18(2):87–94 (61 ref.)

Mothers' reactions to prenatal diagnostic procedures and dexamethasone treatment of congenital adrenal hyperplasia. Trautman PD, et al. **J Psychosom Obstet Gynaecol** 1996 Sep;17(3):175–81

The complexity of labor pain: experiences of 278 women. Waldenström U, et al. **J Psychosom Obstet Gynaecol** 1996 Dec;17(4):215–28

Food- and weight-related attitudes in obese persons: a longitudinal study over two years following biliopancreatic diversion. Adami G, et al. **J Psychosom Res** 1996 Jul; 41(1):31–8

Excessive health behaviors in those at risk for physical disorder [editorial] Epstein SA, et al. **J Psychosom Res** 1997 Sep;43(3):223–5

BSE, public anxiety and private neurosis. McEvedy CJ, et al. **J Psychosom Res** 1997 May;42(5):485–6

Sleep quality versus sleep quantity: relationships between sleep and measures of health, well-being and sleepiness in college students [see comments] Pilcher JJ, et al. **J Psychosom Res** 1997 Jun;42(6):583–96. Comment in: J Psychosom Res 1997 Jun;42(6):513–4.

Dissatisfaction with oral health status in an older adult population. Jokovic A, et al. **J Public Health Dent** 1997 Winter;57(1):40–7

Nonresponse bias in a survey of Ontario dentists' infection control and attitudes concerning HIV. McCarthy GM, et al. **J Public Health Dent** 1997 Winter;57(1):59–62

Anorectal disease: risk factors and delay in presentation in the United Arab Emirates [letter] Alathmani FK, et al. **J Public Health Med** 1996 Dec;18(4):486–7

Stability of women's perceptions of fetal intrapartum oximetry. East CE, et al. **J Qual Clin Pract** 1997 Mar; 17(1):27–31

Some thoughts on the influence of attitude on health and ageing. Walker AR. **J R Soc Health** 1996 Oct;116(5):283–6

The defeat of deafness. Ashley of Stoke. **J R Soc Med** 1997 Apr;90(4):183–6

Attitudes of successful contact lens wearers toward refractive surgery. Migneco MK, et al. **J Refract Surg** 1996 Jan–Feb; 12(1):128–33

Perceptions of a patients' bill of rights: a comparison of Massachusetts and South Carolina. Fowler KP, et al. **J S C Med Assoc** 1997 Jan;93(1):21–5

Superintendents' perceptions of schoolsite health promotion in Missouri. Cox CC, et al. **J Sch Health** 1997 Feb; 67(2):50–5

Parental consent for bone marrow transplantation in the case of genetic disorders. Prows CA, et al. **J Soc Pediatr Nurs** 1997 Jan–Mar;2(1):9–18; quiz 19–20

Marital status, gender, and perception of well-being. Mookherjee HN. **J Soc Psychol** 1997 Feb;137(1):95–105

High-level athlete's impressions of their preparticipation sports examination [letter] Laure P. **J Sports Med Phys Fitness** 1996 Dec;36(4):291–2

Eight-month predictive validity and covariance structure of the Alcohol Expectancy Questionnaire for Adolescents (AEQ-A) for junior high school students. Kline RB. **J Stud Alcohol** 1996 Jul;57(4):396–405

Reliability and reporting biases for perceived parental history of alcohol-related problems: agreement between twins and differences between discordant pairs. Slutske WS, et al. **J Stud Alcohol** 1996 Jul;57(4):387–95

Individual differences in perceived riskiness of drinking in pregnancy: antecedents and consequences. Testa M, et al. **J Stud Alcohol** 1996 Jul;57(4):360–7

Women's health, the media, and the science establishment: hope from the Ottawa Women's Health Forum [editorial] Haseltine FP. **J Womens Health** 1997 Feb;6(1):5–6

Women's beliefs and decisions about hormone replacement therapy. Newton KM, et al. **J Womens Health** 1997 Aug; 6(4):459–65

A piece of my mind. A crowded room. Hatem DS. **JAMA** 1997 May 7;277(17):1350

A piece of my mind. Thank God I have cancer. Mumford DM. **JAMA** 1997 Sep 17;278(11):956

Popular therapeutics and medical preferences in rural north India [see comments] Lambert H. **Lancet** 1996 Dec 21–28; 348(9043):1706–9. Comment in: Lancet 1997 Jul 26;350(9073):298.

Global burden of disease [letter; comment] Matsubayashi K, et al. **Lancet** 1997 Jul 12;350(9071):144. Comment on: Lancet 1997 May 3;349(9061):1263. Comment on: Lancet 1997 May 3;349(9061):1269–76. Comment on: Lancet 1997 May 10;349(9062):1347–52. Comment on: Lancet 1997 May 17;349(9063):1436–42. Comment on: Lancet 1997 May 24;349(9064):1498–504.

Factors affecting smoking cessation in patients with head and neck cancer. Vander Ark W, et al. **Laryngoscope** 1997 Jul; 107(7):888–92

Menopausal experiences of Thai women. Part 1: Symptoms and their correlates. Punyahotra S, et al. **Maturitas** 1997 Jan;26(1):1–7

Menopausal experiences of Thai women. Part 2: The cultural context. Punyahotra S, et al. **Maturitas** 1997 Jan;26(1):9–14

Suntanning: differences in perceptions throughout history. Randle HW. **Mayo Clin Proc** 1997 May;72(5):461–6

Dental health attitudes among dentate black and white adults. Gilbert GH, et al. **Med Care** 1997 Mar;35(3):255–71

The use of significant others as proxy raters of the quality of life of patients with brain cancer. Sneeuw KC, et al. **Med Care** 1997 May;35(5):490–506

Preference values for visual states in patients planning to undergo cataract surgery. Bass EB, et al. **Med Decis Making** 1997 Jul–Sep;17(3):324–30

ATTITUDE TO HEALTH

The relationship between descriptive and valuational quality-of-life measures in patients with intermittent claudication. Bosch JL, et al. **Med Decis Making** 1996 Jul-Sep;16(3):217-25 (29 ref.)

Comparing three versions of the time tradeoff: time for a change? Buckingham JK, et al. **Med Decis Making** 1996 Oct-Dec;16(4):335-47

Comorbidities and utility for angina symptoms [letter; comment] Nease RF Jr. **Med Decis Making** 1996 Jul-Sep; 16(3):300-2. Comment on: Med Decis Making 1996 Jan-Mar;16(1):78-85.

When do the "dollars" make sense? Toward a conceptual framework for contingent valuation studies in health care. O'Brien B, et al. **Med Decis Making** 1996 Jul-Sep; 16(3):288-99 (49 ref.)

Public perceptions of the importance of prognosis in allocating transplantable livers to children. Ubel PA, et al. **Med Decis Making** 1996 Jul-Sep;16(3):234-41

European medical schools and tobacco. Crofton JW, et al. **Med Educ** 1996 Nov;30(6):424-7

Smoking behaviour and attitudes among Australian medical students. Richmond RL, et al. **Med Educ** 1997 May; 31(3):169-76

Cultural differences in beliefs and practices about pregnancy and childbearing. Garcia Coll C, et al. **Med Health R I** 1996 Jul;79(7):257-60 (36 ref.)

"Mental health literacy": a survey of the public's ability to recognise mental disorders and their beliefs about the effectiveness of treatment. Jorm AF, et al. **Med J Aust** 1997 Feb 17;166(4):182-6

Health and social concerns of restaurant/bar workers exposed to environmental tobacco smoke. Akbar-Khanzadeh F, et al. **Med Law** 1996 Mar-Apr;87(2):122-32

On what basis hope? Modern progress and postmodern possibilities. Danforth S. **Ment Retard** 1997 Apr; 35(2):93-106

Therapeutic expectations of patients with multiple sclerosis upon initiating interferon beta-1b: relationship to adherence to treatment. Mohr DC, et al. **Mult Scler** 1996 Dec; 2(5):222-6

A body to die for. Davis GJ. **N C Med J** 1996 May-Jun; 57(3):140

Why healthy elders move to a continuing care retirement community. Gupta N, et al. **N C Med J** 1996 Nov-Dec; 57(6):378-80

Taking sides. Can we reach middle ground in a managed care system? Hill JE Jr. **N C Med J** 1997 May-Jun; 58(3):182-4; discussion 184-5

The art of aging [editorial] [see comments] Meymandi A. **N C Med J** 1996 Nov-Dec;57(6):342. Comment in: N C Med J 1997 Jan-Feb;58(1):7.

Cardiopulmonary resuscitation on television [letter; comment] Byrne JM, et al. **N Engl J Med** 1996 Nov 21; 335(21):1607; discussion 1607. Comment on: N Engl J Med 1996 Jun 13;334(24):1604-5.

The effect of bedside case presentations on patients' perceptions of their medical care [see comments] Lehmann LS, et al. **N Engl J Med** 1997 Apr 17;336(16):1150-5. Comment in: N Engl J Med 1997 Apr 17;336(16):1174-5. Comment in: N Engl J Med 1997 Sep 4;337(10):714; discussion 715-6. Comment in: N Engl J Med 1997 Sep 4;337(10):714-5; discussion 715-6. Comment in: N Engl J Med 1997 Sep 4;337(10):715; discussion 715-6.

Cardiopulmonary resuscitation on television [letter; comment] Mulcahy HE, et al. **N Engl J Med** 1996 Nov 21;335(21):1605-6; discussion 1607. Comment on: N Engl J Med 1996 Jun 13;334(24):1578-82.

AIDS knowledge among New Jersey adults. Miller JE. **N J Med** 1996 Sep;93(9):49-55

What is in a name? [letter] Gangdev PS. **N Z Med J** 1997 Apr 11;110(1041):132

Public knowledge and attitudes towards the use of alcohol and drinking guidelines. Sellman JD, et al. **N Z Med J** 1996 Sep 13;109(1029):337-9

The marital relationship and health in women with chronic fatigue and immune dysfunction syndrome: views of wives and husbands. Goodwin SS. **Nurs Res** 1997 May-Jun; 46(3):138-46

To be or not to be tested for the AIDS virus. Harris RM. **Nurs Res** 1997 Sep-Oct;46(5):293-4

The lost art of successful breastfeeding. Davidson IS. **Nutr Health** 1997;11(4):239-48

Comparison of attitudes and behaviors related to nutrition, body size, dieting, and hunger in Russian, black-American, and white-American adolescents. Stevens J, et al. **Obes Res** 1997 May;5(3):227-36

The oncology nursing image: lifting the mist. Krebs LU, et al. **Oncol Nurs Forum** 1996 Sep;23(8):1297-304

Expectations and experiences of patients with cancer participating in phase I clinical trials. Yoder LH, et al. **Oncol Nurs Forum** 1997 Jun;24(5):891-6

National survey of endodontists and selected patient samples: infectious diseases and attitudes toward infection control. Cohen AS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):696-702

Standardized assessment of psychological well-being and quality-of-life in patients with implanted defibrillators. Herrmann C, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):95-103

Mothers' attitudes and behavior toward medicating children's pain. Forward SP, et al. **Pain** 1996 Oct;67(2-3):469-74

Development of a brief version of the Survey of Pain Attitudes. Tait RC, et al. **Pain** 1997 Apr;70(2-3):229-35

The effects of the clinical characteristics of dying cancer patients on informal caregivers' satisfaction with palliative care. Fakhoury WK, et al. **Palliat Med** 1997 Mar; 11(2):107-15

Communicating the diagnosis of motor neurone disease. Johnston M, et al. **Palliat Med** 1996 Jan;10(1):23-34

A comparison of hospice and hospital care for people who die: views of the surviving spouse. Seale C, et al. **Palliat Med** 1997 Mar;11(2):93-100

Importance of dental problems according to 12- to 16-year-old children. Assink MH, et al. **Pediatr Dent** 1996 Sep-Oct;18(5):391-4

Parental awareness, habits, and social factors and their relationship to baby bottle tooth decay. Febres C, et al. **Pediatr Dent** 1997 Jan-Feb;19(1):22-7

Changes in maternal attitudes toward baby bottle tooth decay. Kanellis MJ, et al. **Pediatr Dent** 1997 Jan-Feb; 19(1):56-60

Parental attitudes do not explain underimmunization. Strobino D, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1076-83

Value of self-identification of hearing loss in a screening program for older adults. Dancer J, et al. **Percept Mot Skills** 1996 Aug;83(1):114

Self-recognition of alcohol and cigarette dependency among high school seniors. Daughton JM, et al. **Percept Mot Skills** 1997 Aug;85(1):115-20

Factors associated with regular exercise. Hurrell RM. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):871-4

Overestimation of the effectiveness of cardiopulmonary resuscitation. Kostoulakos NM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1409-10

Symptom reporting and interoceptive attention in panic patients. Kroeze S, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):1019-26

Effect of numerical representations of risk on perception. Mehta MD, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):714

Race-specific versus general stamps on African-American women's survey return rates. Price JH, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):928-30

Assumptions about fitness and exercise among elderly persons. Vitulli WF, et al. **Percept Mot Skills** 1997 Apr; 84(2):671-4

Evaluation of selected life-skill modules from the contemporary health series with students in grade. Young M, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):811-8

The legend of the potholes: newsroom changes increase medical and health care news coverage. Bloom SG. **Pharos** 1996 Summer;59(3):2-7

Medical practice: past, present, future [see comments] Cooley DA. **Pharos** 1997 Winter;60(1):13-6. Comment in: Pharos 1997 Winter;60(1):37.

Doctors and patients: facing life-threatening illnesses. Edwards MJ. **Pharos** 1997 Summer;60(3):19-21

It's the patient [editorial; comment] Gaudiani VA. **Pharos** 1996 Fall;59(4):33. Comment on: Pharos 1996 Fall;59(4):18-22.

Canna Lily. Lyons PR. **Pharos** 1997 Summer;60(3):42-3

On creativity and medicine. Rodenhauser P. **Pharos** 1996 Fall;59(4):2-6

Altruism--a flawed morality? [letter] Ziegler DK. **Pharos** 1997 Winter;60(1):39

Sun protection and sunscreen use after surgical treatment of basal cell carcinoma. Harth Y, et al. **Photodermatol Photoimmunol Photomed** 1995 Aug; 11(4):140-2

Disability and health: perceptions of a sample of elderly people. Partridge C, et al. **Physiother Res Int** 1996; 1(1):17-29

A message from Preventive Medicine and your physician. Diseases of old age and how they start in childhood. **Prev Med** 1996 Sep-Oct;25(5):515

Interest in learning of personal genetic risk for cancer: a general population survey. Andrykowski MA, et al. **Prev Med** 1996 Sep-Oct;25(5):527-36

Smoking, smoking cessation, and understanding of the role of multiple cardiac risk factors among the urban poor. Hyman DJ, et al. **Prev Med** 1996 Nov-Dec;25(6):653-9

Patients' perceptions of their physician's role in smoking cessation by age and readiness to stop smoking. Kviz FJ, et al. **Prev Med** 1997 May-Jun;26(3):340-9

Participation in a breast cancer screening program: influence of past behavior and determinants on future screening participation. Lechner L, et al. **Prev Med** 1997 Jul-Aug; 26(4):473-82

Skin cancer prevention and early detection practices in a sample of rural women. Michielutte R, et al. **Prev Med** 1996 Nov-Dec;25(6):673-83

Meat avoidance and body weight concerns: nutritional implications for teenage girls. Ryan YM. **Proc Nutr Soc** 1997 Mar;56(1B):519-24 (19 ref.)

"...The best of times... the worst of times": bringing environmental health to life. Hagard S. **Promot Educ** 1995 Dec;2(4):21-4

Outcome of fitting an ICEROSS prosthesis: views of trans-tibial amputees. Datta D, et al. **Prosthet Orthot Int** 1996 Aug;20(2):111-5

Judges' assumptions about the appropriateness of civil and forensic commitment. Appelbaum KL, et al. **Psychiatr Serv** 1997 May;48(5):710-2

Suicidal inpatients' experience of constant observation. Pitula CR, et al. **Psychiatr Serv** 1996 Jun;47(6):649-51

Public perceptions of former psychiatric patients in England. Reda S. **Psychiatr Serv** 1996 Nov;47(11):1253-5

Homeless mentally ill clients' and providers' perceptions of service needs and clients' use of services. Rosenheck R, et al. **Psychiatr Serv** 1997 Mar;48(3):381-6

Client and site characteristics as barriers to service use by homeless persons with serious mental illness. Rosenheck R, et al. **Psychiatr Serv** 1997 Mar;48(3):387-90

Factors influencing life-sustaining treatment decisions in a community sample of families. Karel MJ, et al. **Psychol Aging** 1996 Jun;11(2):226-34

Pessimism, age, and cancer mortality. Schulz R, et al. **Psychol Aging** 1996 Jun;11(2):304-9

Insight and cognitive deficits in schizophrenia: evidence for a curvilinear relationship. Startup M. **Psychol Med** 1996 Nov;26(6):1277-81

Persisting improvement in complaint-related cognitions initiated during medical consultations in functional abdominal complaints. van Dulmen AM, et al. **Psychol Med** 1997 May;27(3):725-9

A two-stage epidemiological study of abnormal eating attitudes and their prospective risk factors in Polish schoolgirls. Włodarczyk-Bisaga K, et al. **Psychol Med** 1996 Sep;26(5):1021-32

How the value of health moderates the link between age and depressive symptoms: further evidence. Buerger JL, et al. **Psychol Rep** 1996 Oct;79(2):655-8

Preliminary study of health value as a moderator of the link between age and life satisfaction. Fahey AL, et al. **Psychol Rep** 1996 Oct;79(2):443-6

A cross-cultural study of attitudes towards seeking psychological help. Furnham A, et al. **Psychol Rep** 1996 Aug;79(1):289-90

Age and sex differences in health beliefs and behaviours. Furnham A, et al. **Psychol Rep** 1997 Feb;80(1):63-6

The Understanding Mood Disorders Questionnaire. Gavazzi SM, et al. **Psychol Rep** 1997 Aug;81(1):172-4

Do health questionnaires which do not consider sex differences miss important information? Gibson LM, et al. **Psychol Rep** 1997 Aug;81(1):163-71

Positive attitudes towards suntanning and reported tendency to engage in lifestyle behaviors that increase risk of skin cancer. Hanley JM, et al. **Psychol Rep** 1996 Oct;79(2):417-8

Optimism, social support, stress, and physical and psychological well-being in Japanese women. Sumi K. **Psychol Rep** 1997 Aug;81(1):299-306

Attitude toward medication and perceived competence among chronically psychotic patients. Todman M Jr, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):809-10

Response set of social desirability in relation to the Mental, Physical and Spiritual Well-Being Scale. Vella-Brodrick DA, et al. **Psychol Rep** 1997 Aug;81(1):127-30

Gender differences in beliefs of why women live longer than men. Wallace JE. **Psychol Rep** 1996 Oct;79(2):587-91

Indigent adolescents' concerns about health care reform. Weinman ML, et al. **Psychol Rep** 1996 Feb;78(1):306

General well-being and academic performance. Wheeler RJ, et al. **Psychol Rep** 1997 Apr;80(2):581-2

Side effects of adjuvant chemotherapy: perceptions of node-negative breast cancer patients. Beisecker A, et al. **Psychooncology** 1997 Jun;6(2):85-93

Fear of cancer recurrence--a literature review and proposed cognitive formulation to explain exacerbation of recurrence fears. Lee-Jones C, et al. **Psychooncology** 1997 Jun; 6(2):95-105 (41 ref.)

Depression phobia, or the triumph of psychiatry [editorial] Fava GA. **Psychother Psychosom** 1996;65(4):169-70

Psychological differences between young male and female survivors of myocardial infarction. Uusküla M. **Psychother Psychosom** 1996;65(6):327-30

Tropical illness profiles: the psychology of illness perception in Malawi. MacLachlan M, et al. **Public Health** 1997 Jul; 111(4):211-3

Attitudes to cuts in expenditure and increased fees in health care. Myllykangas M, et al. **Public Health** 1997 Mar; 111(2):71-5

Family caregiver's satisfaction with home care in the Taipei metropolitan area. Chiu L. **Public Health Nurs** 1997 Feb; 14(1):42-50

Older adults' experience of health promotion: a theory for nursing practice. Frenn M. **Public Health Nurs** 1996 Feb; 13(1):65-71 (32 ref.)

Mobilizing for child health and well being [editorial] Graham KY. **Public Health Nurs** 1997 Aug;14(4):189

Focus groups among public, military, and private sector mothers: insights to improve the immunization process. Houseman C, et al. **Public Health Nurs** 1997 Aug; 14(4):235-43

The relationship of perceived benefits of and barriers to reported exercise in older African American women. Jones M, et al. **Public Health Nurs** 1996 Apr;13(2):151-8

Giving voice to elderly people: community-based long-term care. Krothe JS. **Public Health Nurs** 1997 Aug;14(4):217-26

Caregivers' knowledge and perceptions of preventing childhood lead poisoning. Mahon I. **Public Health Nurs** 1997 Jun;14(3):169-82

EPA seeks public health views on new pesticide law. Goldman LR. **Public Health Rep** 1996 Nov-Dec; 111(6):512-4

Public confidence in public health research ethics [comment]

[see comments] Mariner WK. **Public Health Rep** 1997 Jan-Feb;112(1):33-6 (17 ref.). Comment on: Public Health Rep 1997 Jan-Feb;112(1):29-32. Comment in: Public Health Rep 1997 Jul-Aug;112(4):266.

Radioiodine therapy for hyperthyroidism--perceptions of risk [letter] George S, et al. **QJM** 1996 Jun;89(6):483-4

Effect of locus of control and consideration of future consequences on time tradeoff utilities for current health. Handler RM, et al. **Qual Life Res** 1997 Jan;6(1):54-60

Automated utility assessment of global health. Nease RF Jr, et al. **Qual Life Res** 1996 Feb;5(1):175-82

Randomized trials with quality of life endpoints: are doctors' ratings of patients' physical symptoms interchangeable with patients' self-ratings? Stephens RJ, et al. **Qual Life Res** 1997 Apr;6(3):225-36

Relationships between patient attitudes, subjective norms, perceived control, and analgesic use following elective orthopedic surgery. Pellino TA. **Res Nurs Health** 1997 Apr; 20(2):97-105

Education for outpatients with rheumatic diseases. Evaluation of short-term and medium-term results. Giraudet-Le Quintrec JS, et al. **Rev Rhum Engl Ed** 1996 Jul-Sep;63(7-8):469-74

The quantity and quality of medical information available to the public. Arnold DE, et al. **S D J Med** 1996 Feb; 49(2):69-74

Primary physicians and the elderly hearing-impaired. Actions and attitudes. Parving A, et al. **Scand Audiol** 1996; 25(4):253-8

The subjective meaning of illness in severe otosclerosis: a descriptive study in three steps based on focus group interviews and written questionnaire. Eriksson-Mangold M, et al. **Scand Audiol Suppl** 1996;43:34-44

The stigma attached to hearing impairment. Hétu R. **Scand Audiol Suppl** 1996;43:12-24 (50 ref.)

Determinants of willingness to pay taxes for a community-based prevention programme. Lindholm LA, et al. **Scand J Soc Med** 1997 Jun;25(2):126-35

Effects of a health examination programme on quality of life and subjective well-being. Rose G, et al. **Scand J Soc Med** 1996 Jun;24(2):124-31

Aging and changes in health. Seitsamo J, et al. **Scand J Work Environ Health** 1997;23 Suppl 1:27-35

Public perceptions of brain tumours in Scotland: the need for access to appropriate information. Whittle IR, et al. **Scott Med J** 1996 Jun;41(3):87-9

Public beliefs about causes and risk factors for depression and schizophrenia. Jorm AF, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 Apr;32(3):143-8

The effect of violent attacks by schizophrenic persons on the attitude of the public towards the mentally ill. Angermeyer MC, et al. **Soc Sci Med** 1996 Dec; 43(12):1721-8

Young doctors' health--I. How do working conditions affect attitudes, health and performance? Baldwin PJ, et al. **Soc Sci Med** 1997 Jul;45(1):35-40

Young doctors' health--II. Health and health behaviour. Baldwin PJ, et al. **Soc Sci Med** 1997 Jul;45(1):41-4

The end of the road? Lay views on a pain-relief clinic. Bendelow GA, et al. **Soc Sci Med** 1996 Oct;43(7):1127-36

Whose fault is it? People's own conceptions of the reasons for health inequalities. Blaxter M. **Soc Sci Med** 1997 Mar; 44(6):747-56 (31 ref.)

Community and self: concepts for rural physician integration and retention. Cutchin MP. **Soc Sci Med** 1997 Jun; 44(11):1661-74

Shattered assumptions: time and the experience of long-term HIV positivity. Davies ML. **Soc Sci Med** 1997 Mar; 44(5):561-71

Beliefs on coping with illness: a consumer's perspective. de Ridder D, et al. **Soc Sci Med** 1997 Mar;44(5):553-9

The social construction of drug debates. Dingelstad D, et al. **Soc Sci Med** 1996 Dec;43(12):1829-38 (65 ref.)

Patient attitude as a function of disease state in multiple sclerosis. Evers KJ, et al. **Soc Sci Med** 1996 Oct; 43(8):1245-51

Factors influencing patient perceived recovery in Mexico. Finkler K, et al. **Soc Sci Med** 1996 Jan;42(2):199-207

Lay theories of heroin addiction. Furnham A, et al. **Soc Sci Med** 1996 Jul;43(1):29-40

Some conceptual considerations on the sense of coherence. Geyer S. **Soc Sci Med** 1997 Jun;44(12):1771-9 (59 ref.)

Conceptualizing oral health and oral health-related quality of life. Gift HC, et al. **Soc Sci Med** 1997 Mar;44(5):601-8

Meanings in policy: a textual analysis of Canada's "Achieving Health For All" document. Iannantuono A, et al. **Soc Sci Med** 1997 Jun;44(11):1611-21 (46 ref.)

Hearing the patient's 'voice': toward a social poetics in diagnostic interviews. Katz AM, et al. **Soc Sci Med** 1996 Sep;43(6):919-31 (32 ref.)

Dirty, diseased and undeserving: the positioning of HIV positive women. Lawless S, et al. **Soc Sci Med** 1996 Nov; 43(9):1371-7

Urban ecological structure and perceived child and adolescent psychological disorder. Leclair JA, et al. **Soc Sci Med** 1997 Jun;44(11):1649-59

Consumerism, reflexivity and the medical encounter. Lupton D. **Soc Sci Med** 1997 Aug;45(3):373-81

Leprosy among the Limba: illness and healing in the context of world view. Opala J, et al. **Soc Sci Med** 1996 Jan; 42(1):3-19

Marital status and quality of relationships: the impact on health perception. Ren XS. **Soc Sci Med** 1997 Jan; 44(2):241-9

The measurement of beliefs about physical symptoms in English general practice patients. Salmon P, et al. **Soc Sci Med** 1996 Jun;42(11):1561-7

The 'limits' of medicalization?: modern medicine and the lay populace in 'late' modernity. Williams SJ, et al. **Soc Sci Med** 1996 Jun;42(12):1609-20

Cleaning the womb: constructions of cervical screening and womb cancer among rural black women in South Africa. Wood K, et al. **Soc Sci Med** 1997 Jul;45(2):283-94

The strengths perspective in social work practice: extensions and cautions. Saleebey D. **Soc Work** 1996 May; 41(3):296-305 (55 ref.)

Gender differences in parenting a child with cancer. Brown KA, et al. **Soc Work Health Care** 1996;22(4):53-71

Negotiating advance directives for persons with AIDS: Littrell J, et al. **Soc Work Health Care** 1996;23(2):43-65

A comparison of transplant patient and social worker attitudes in regard to transplant patient psychosocial selection criteria, role expectations and communication style. Paris W, et al. **Soc Work Health Care** 1996; 23(1):39-52

Psychologic profiles as predictors of success in a cardiovascular risk factors life-style intervention program. Banks WA, et al. **South Med J** 1996 Oct;89(10):971-6

Dilemmas and solutions for the pathologist and clinician encountering religious views of the autopsy [see comments] Davis GJ, et al. **South Med J** 1996 Nov;89(11):1041-4 (29 ref.). Comment in: South Med J 1996 Nov;89(11):1125-6.

Perceptions of population policy, development, and family planning programs in northern Nigeria. Renne EP. **Stud Fam Plann** 1996 May-Jun;27(3):127-36

Evaluating the program effects of a radio drama about AIDS in Zambia [see comments] Yoder PS, et al. **Stud Fam Plann** 1996 Jul-Aug;27(4):188-203. Comment in: Stud Fam Plann 1997 Jun;28(2):170-2.

The Life Attitudes Schedule Short Form: an abbreviated measure of life-enhancing and life-threatening behaviors in adolescents. Rohde P, et al. **Suicide Life Threat Behav** 1996 Fall;26(3):272-81

Cancer patients psychological adjustment and perception of illness: cultural differences between Belgium and Turkey. Erbil P, et al. **Support Care Cancer** 1996 Nov;4(6):455-61

Why bioethics needs the philosophy of medicine: some implications of reflection on concepts of health and disease. Khushf G. **Theor Med** 1997 Mar-Jun;18(1-2):145-63

The virtues in psychiatric practice. Mann DW. **Theor Med** 1997 Mar-Jun;18(1-2):21-30

Civil disobedience and tobacco control: the case of BUGA UP. Billboard Utilising Graffitists Against Unhealthy Promotions. Chapman S. **Tob Control** 1996 Autumn; 5(3):179-85

Smoking in Ecuador: prevalence, knowledge, and attitudes. Ockene JK, et al. **Tob Control** 1996 Summer;5(2):121-6

Smoking behaviour and attitudes among adult Saudi nationals in Riyadh City, Saudi Arabia. Saeed AA, et al. **Tob Control** 1996 Autumn;5(3):215-9

Organ donation--are we asking the right questions? Schilling MK, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1472

Patient acceptance of cadaveric kidneys from expanded criteria donors. Slakey DP, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):116-7

Health-independent lung transplantation information of parents of children with cystic fibrosis. Götz I, et al. **Transplantation** 1997 Sep 15;64(5):742-7

Feeding practices of mothers during childhood diarrhoea in a rural area of Nigeria. Jinadu MK, et al. **Trop Med Int Health** 1996 Oct;1(5):684-9

Perceptions of the risk of HIV infection through giving blood in Greece [letter] Politis C, et al. **Vox Sang** 1997;72(4):251-2

Health perceptions and self-care response to illness among users of medical and alternative health services in St Andrew, Jamaica. Williams SK. **West Indian Med J** 1996 Sep;45(3):78-81

Cross-cultural medicine and diverse health beliefs. Ethiopians abroad. Hodes R. **West J Med** 1997 Jan; 166(1):29-36

Patient preferences for management of localized prostate cancer. Mazur DJ, et al. **West J Med** 1996 Jul-Aug; 165(1-2):26-30

Health beliefs and early detection among Chinese women. Hoeman SP, et al. **West J Nurs Res** 1996 Oct;18(5):518-33

Perceived control and well-being in Parkinson's disease. Wallhagen MI, et al. **West J Nurs Res** 1997 Feb; 19(1):11-25; discussion 25-31

Benefits and burdens of genetic carrier identification. Williams JK, et al. **West J Nurs Res** 1997 Feb;19(1):71-81

A conversation with a physician and a cancer patient [interview by Judith D Burke] Levin J. **Wis Med J** 1997 Apr;96(4):12-5

"Everything you need to know": how women's magazines structure prenatal diagnosis for women over 35. Beaulieu A, et al. **Women Health** 1995;23(3):59-74

Women's disclosure of HIV status: experiences of mistreatment and violence in an urban setting. Gielen AC, et al. **Women Health** 1997;25(3):19-31

The gynecological care experience of adult survivors of childhood sexual abuse: a preliminary investigation. Robohm JS, et al. **Women Health** 1996;24(3):59-75

The effects of health beliefs on screening mammography utilization among a diverse sample of older women. Thomas LR, et al. **Women Health** 1996;24(3):77-94

The influence of demographic characteristics, menopausal status, and symptoms on women's attitudes toward menopause. Wilbur J, et al. **Women Health** 1995;23(3):19-39

Attitudes toward genetic carrier screening for cystic fibrosis among pregnant women: the role of health beliefs and avoidant coping style. Fang CY, et al. **Womens Health** 1997 Spring;3(1):31-51

What do people expect from their doctors? [letter; comment] Goswami K. **World Health Forum** 1996;17(2):171. Comment on: World Health Forum 1995;16(3):221-7; discussion 227-47.

Healthy houses--perspective on well-being in rural Cambodia. Jonsson H. **World Health Forum** 1996; 17(4):360-2

Concern about nutrition and its relation to the food habits of a group of young university students from Madrid (Spain). Ortega RM, et al. **Z Ernahrungswiss** 1997 Mar; 36(1):16-22

[A study on AIDS-related knowledge, attitude and behavior in servicemen in China] Hang G, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 Mar;30(2):94-7 (Eng. Abstr.) **(Chi)**

[Attitude of pregnant women to prenatal screening] Jørgensen FS. **Ugeskr Laeger** 1996 Sep 23;158(39):5447-52 (Eng. Abstr.) **(Dan)**

[Errors of the not-known? (letter; comment)] Leth K. **Ugeskr Laeger** 1997 Jan 6;159(2):189-90. Comment on: Ugeskr Laeger 1996 Oct 14;158(42):5928-32. **(Dan)**

[The management of back problems among the population II. Therapists' and patients' perception of the disease] Lønnberg F. **Ugeskr Laeger** 1997 Apr 7;159(15):2215-21 (Eng. Abstr.) **(Dan)**

[Sex differences in perceived health (letter; comment)] Knepper S. **Ned Tijdschr Geneeskd** 1997 Apr 19;141(16):794 . Comment on: Ned Tijdschr Geneeskd 1997 Feb 8;141(6):283-7. **(Dut)**

[Beautifying the breast] Le Gouès G. **Contracept Fertil Sex** 1997 Jun;25(6):475-81 (31 ref.) (Eng. Abstr.) **(Fre)**

[Scotomas: assessment by the patient and by the physician. There's nothing to see] Safran AB. **Klin Monatsbl Augenheilkd** 1997 May;210(5):316-8 (Eng. Abstr.) **(Fre)**

[Attitudes and experience of French general practitioners towards HIV infection. National survey in 1996] Obadia Y, et al. **Presse Med** 1997 May 31;26(18):860-6 **(Fre)**

[On the relativity of risk] Brunet JB. **Rev Epidemiol Sante Publique** 1996 Oct;44(5):385-6 **(Fre)**

[Inaugural conference given on the occasion of the Revue d'Epidémiologie et de Santé Publique 20th anniversary on the theme: how does a disease become a public health problem?] Touraine A. **Rev Epidemiol Sante Publique** 1997 Jun;45(3):185-91 **(Fre)**

[Perception of lepers by non-lepers in an urban center in Cameroon] Touko A, et al. **Sante** 1996 Sep-Oct;6(5):269-74 **(Fre)**

[Smoking behavior and views on the smoking topic in the Styrian population--results of a survey at the Graz autumn convention] Maier R, et al. **Acta Med Austriaca** 1996; 23(3):101-4 (Eng. Abstr.) **(Ger)**

[Diagnosis and evaluation of climacteric symptoms. The "Menopause Rating Scale" MRS helps in diagnosis and evaluation of therapeutic effectiveness] Hauser GA. **Fortschr Med** 1996 Feb 20;114(5):49-52 (Eng. Abstr.) **(Ger)**

[Environmental concern of clients of an environmental medicine counseling center] Neuhann HF, et al. **Gesundheitswesen** 1996 Aug-Sep;58(8-9):477-81 (Eng. Abstr.) **(Ger)**

[Health consciousness and risk behavior of prostitutes] Stücker M, et al. **Hautarzt** 1997 Mar;48(3):166-70 (Eng. Abstr.) **(Ger)**

[Psychosocial characteristics and attitudes of clients of day care centers and contact and counseling facilities] Gruyters T, et al. **Nervenarzt** 1997 Mar;68(3):251-8 (Eng. Abstr.) **(Ger)**

[Common knowledge of protective health factors--a qualitative study] Strittmatter R, et al. **Psychother Psychosom Med Psychol** 1996 Feb;46(2):68-75 (Eng. Abstr.) **(Ger)**

[Report of experiences: personal experience in sports participation. Dominance of the over-performance principle in sports] Artus HG. **Sportverletz Sportschaden** 1996 Sep;10(3):XII-XIII **(Ger)**

[Environmental concerns--fear of the environment or concern for the environment?] Kappos AD. **Z Arztl Fortbild Qualitatssich** 1997 Feb;91(1):5-10 (Eng. Abstr.) **(Ger)**

[New caffeinated beverages. A pilot survey of familiarity and consumption by adolescents in North-Rhine Westphalia and Berlin and considerations of consumer protection] Viell B, et al. **Z Ernahrungswiss** 1996 Dec;35(4):378-86 (Eng. Abstr.) **(Ger)**

[Different lay etiologic attributions of psychogenically ill probrands from an epidemiologic field study] Thebaldi B, et al. **Z Psychosom Med Psychoanal** 1996;42(1):71-87 (Eng. Abstr.) **(Ger)**

[Questionnaire of cryopreserved allograft valves in Kyushu and Yamaguchi area] Tokunaga S, et al. **Kyobu Geka** 1996 Dec;49(13):1063-8 (Eng. Abstr.) **(Jpn)**

ATTITUDE TO HEALTH

[Relationship between body type, subjective symptoms and health awareness in junior high school students] Monden S. **Nippon Koshu Eisei Zasshi** 1997 Feb;44(2):131–8 (Eng. Abstr.) **(Jpn)**

[The relationship between workers' attitudes towards health, lifestyle and mental health] Irie M, et al. **Sangyo Eiseigaku Zasshi** 1997 Jul;39(4):107–15 (Eng. Abstr.) **(Jpn)**

[Psychosomatic effect of a health program on obese employees] Irie M, et al. **Sangyo Eiseigaku Zasshi** 1996 Jan; 38(1):11–6 (Eng. Abstr.) **(Jpn)**

[Attitudes to treatment with cytostatic agents. Do cancer patients, physicians, nurses and healthy individuals vary in their views?] Bremnes RM, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2583–7 (Eng. Abstr.) **(Nor)**

[When physicians become ill. Difficult choices] Christie VM, et al. **Tidsskr Nor Laegeforen** 1997 Apr 10;117(9):1286–9 (Eng. Abstr.) **(Nor)**

[Science priority, medical paternalism or participation in medical practice] Gibiński K. **Pol Merkuriusz Lek** 1996 Sep;1(3):213–5 (39 ref.) (Eng. Abstr.) **(Pol)**

[Bioethical issues in contemporary medical sciences] Zyciński BJ. **Przegl Lek** 1996;53(3):111–5 (Eng. Abstr.) **(Pol)**

[Opinions about disease among members of the social network of patients with Hansen's disease in Recife] Feliciano KV, et al. **Rev Panam Salud Publica** 1997 Feb; 1(2):112–8 (Eng. Abstr.) **(Por)**

[Degree of neurosis, attitude to health and disease, personal and intrapersonal conflicts in motor vehicle drivers] Taukenova LM. **Med Tr Prom Ekol** 1996;(8):34–7 **(Rus)**

[Physicians and the population on the reforming of public health (based on sociological research data)] Diukareva AM, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Mar–Apr; (2):36–9 (Eng. Abstr.) **(Rus)**

[Patient attitude toward the psychiatric hospital] Dolgov SA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(2):62–4 (Eng. Abstr.) **(Rus)**

[The clinical and psychological aspects of the reaction to disease (the problem of nosogenias)] Smulevich AB, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(2):4–9 (Eng. Abstr.) **(Rus)**

[The Islamic philosophy of life and human health] Ziga J. **Med Arh** 1997;51(1–2):13–4 (Eng. Abstr.) **(Scr)**

[The use and attitudes of adolescents toward addictive substances: a prevalence study] Campins Martí M, et al. **An Esp Pediatr** 1996 Nov;45(5):475–8 (Eng. Abstr.) **(Spa)**

[Parent's perception of vaccination] Díez-Delgado Rubio J, et al. **An Esp Pediatr** 1996 Aug;45(2):129–32 (Eng. Abstr.) **(Spa)**

[Teachers' attitudes toward smoking prevention at schools] Barrueco M, et al. **Arch Bronconeumol** 1996 Feb;32(2):64–8 (Eng. Abstr.) **(Spa)**

[The physician–patient relationship and the clinical interview (I): the opinion and preferences of users] Torío Durántez J, et al. **Aten Primaria** 1997 Jan;19(1):18–26 (Eng. Abstr.) **(Spa)**

[Attitude to and acceptance of prenatal cytogenetic diagnosis by pregnant women] Mayén-Molina DG, et al. **Ginecol Obstet Mex** 1997 Mar;65:107–10 (Eng. Abstr.) **(Spa)**

[In silversmith house... (editorial; comment)] Roca-Cusachs Coll A. **Med Clin (Barc)** 1997 Apr 26;108(16):613–4. Comment on: Med Clin (Barc) 1997 Apr 26;108(16):604–7. **(Spa)**

[Management strategies in HIV/AIDS at the family level] Castro R, et al. **Salud Publica Mex** 1997 Jan–Feb; 39(1):32–43 (Eng. Abstr.) **(Spa)**

[A letter from a convalescent] Nyh E. **Lakartidningen** 1996 Nov 27;93(48):4430–1 **(Swe)**

ETHNOLOGY

Lay perceptions of risk of HIV infection and the social construction of safer sex: some experiences from Kenya. Nzioka C. **AIDS Care** 1996 Oct;8(5):565–79

HIV risk behaviors among Dominican brothel and street prostitutes in New York City. Deren S, et al. **AIDS Educ Prev** 1996 Oct;8(5):444–56

HIV risk among Latino gay men in the Southwestern United States. Diaz RM, et al. **AIDS Educ Prev** 1996 Oct; 8(5):415–29

A self-efficacy scale for HIV risk behaviors: development and evaluation. Smith KW, et al. **AIDS Educ Prev** 1996 Apr;8(2):97–105

Changing paradigms and their effect on American Indian and Alaska Native health [editorial; comment] Rhoades ER. **Ann Epidemiol** 1997 May;7(4):227–8. Comment on: Ann Epidemiol 1997 May;7(4):229–40.

Ways of knowing about health: an aboriginal perspective. Turton CL. **ANS Adv Nurs Sci** 1997 Mar;19(3):28–36

Minority populations and advance directives: insights from a focus group methodology. Hauser JM, et al. **Camb Q Healthc Ethics** 1997 Winter;6(1):58–71

Multiculturalism and AIDS: different communities mean different educational messages required. Lechky O. **Can Med Assoc J** 1997 May 15;156(10):1446–8

Health beliefs of rural Appalachian women and the practice of breast self-examination. Sortet JP, et al. **Cancer Nurs** 1997 Aug;20(4):231–5

Maternal non-recognition of Down syndrome in black South African infants. Christianson AL, et al. **Clin Genet** 1996 Mar;49(3):141–4

Black Americans' and White Americans' views of the etiology and treatment of mental health problems. Millet PE, et al. **Community Ment Health J** 1996 Jun;32(3):235–42

Ethics, values, and world culture: the impact on rehabilitation. Banja JD. **Disabil Rehabil** 1996 Jun; 18(6):279–84 (7 ref.)

Barriers to contraceptive use in Kenya. Kamau RK, et al. **East Afr Med J** 1996 Oct;73(10):651–9

Biocultural perspectives on women's health [news] **Environ Health Perspect** 1997 Apr;105(4):369–70

Qualitative methods in general practice research: experience from the Oceanpoint Study. Whittaker A. **Fam Pract** 1996 Jun;13(3):310–6

Indian Summer. Pope DS. **Image J Nurs Sch** 1996 Fall; 28(3):273–4

An exploratory study examining the influence of translation on the validity and reliability of qualitative data in nursing research. Twinn S. **J Adv Nurs** 1997 Aug;26(2):418–23

Ovarian aging and hormone replacement therapy. Hormonal levels, symptoms, and attitudes of African-American and white women. Pham KT, et al. **J Gen Intern Med** 1997 Apr;12(4):230–6

Religion and subjective health among black and white elders. Musick MA. **J Health Soc Behav** 1996 Sep;37(3):221–37 (60 ref.)

Sun, sex and responsibility. The Lumleian Lecture 1996. Adler MW. **J R Coll Physicians Lond** 1997 Jul–Aug; 31(4):425–33 (25 ref.)

Psychological and social factors associated with histories of risk for human immunodeficiency virus infection among African-American inner-city women. Kalichman SC, et al. **J Womens Health** 1997 Apr;6(2):209–17

A piece of my mind. For everything a blessing. Prager KM. **JAMA** 1997 May 28;277(20):1589

More highlights on Native Americans [letter; comment] Bullock K. **MCN Am J Matern Child Nurs** 1997 Mar–Apr; 22(2):72, 104. Comment on: MCN Am J Matern Child Nurs 1996 Nov–Dec;21(6):274–9.

New bottles, old wine: hidden cultural assumptions in a computerized explanation system for migraine sufferers. Forsythe DE. **Med Anthropol Q** 1996 Dec;10(4):551–74

An excellent prognosis. Franklin S. **Med Anthropol Q** 1996 Dec;10(4):683–6

Technology and alternative cancer therapies: an analysis of heterodoxy and constructivism. Hess DJ. **Med Anthropol Q** 1996 Dec;10(4):657–74 (62 ref.)

Transforming "body parts" into therapeutic tools: a report from Germany. Hogle LF. **Med Anthropol Q** 1996 Dec; 10(4):675–82

Anthropology and technoscience studies: prospects for synthesis and ambiguity. Kaufert PA, et al. **Med Anthropol Q** 1996 Dec;10(4):686–90

"How's the baby doing?" Struggling with narratives of progress in a neonatal intensive care unit. Layne LL. **Med Anthropol Q** 1996 Dec;10(4):624–56

A biocultural perspective on health and household economy in southern Peru [see comments] Leatherman TL. **Med Anthropol Q** 1996 Dec;10(4):476–95. Comment in: Med Anthropol Q 1996 Dec;10(4):451–4. Comment in: Med Anthropol Q 1996 Dec;10(4):516–9. Comment in: Med Anthropol Q 1996 Dec;10(4):519–22.

The social dynamics of genetic testing: the case of Fragile-X. Nelkin D. **Med Anthropol Q** 1996 Dec;10(4):537–50

Studying knowledge, culture, and behavior in applied medical anthropology [see comments] Pelto PJ, et al. **Med Anthropol Q** 1997 Jun;11(2):147–63 (29 ref.). Comment in: Med Anthropol Q 1997 Jun;11(2):252–5.

Sociocultural aspects of tuberculosis control in Ethiopia. Vecchiato NL. **Med Anthropol Q** 1997 Jun;11(2):183–201

The ethnoecology of dengue fever. Whiteford LM. **Med Anthropol Q** 1997 Jun;11(2):202–23

The importance of social and cultural effects of mercury on aboriginal peoples. Wheatley MA. **Neurotoxicology** 1996 Spring;17(1):251–6

An implicit world view in technology and its consequences for contemporary life. Ketner KL. **Nurs Outlook** 1996 Nov–Dec;44(6):280–3 (9 ref.)

Different approaches and cultural considerations in third world prosthetics. Meanley S. **Prosthet Orthot Int** 1995 Dec;19(3):176–80 (35 ref.)

Insight, psychosis and ethnicity: a case-note study. Johnson S, et al. **Psychol Med** 1996 Sep;26(5):1081–4

Dementia in old age: an anthropological perspective. Pollitt PA. **Psychol Med** 1996 Sep;26(5):1061–74 (127 ref.)

Basic cultural values and differences in attitudes towards health, illness and treatment preferences within a psychosomatic frame of reference. Bekker FJ, et al. **Psychother Psychosom** 1996;65(4):191–8

Tuberculosis beliefs among recent Vietnamese refugees in New York State. Carey JW, et al. **Public Health Rep** 1997 Jan–Feb;112(1):66–72

Preserving the pot and water: a traditional concept of reproductive health in a Yoruba community, Nigeria. Adetunji JA. **Soc Sci Med** 1996 Dec;43(11):1561–7

Women's perceptions of the complications of pregnancy and childbirth in two Esan communities, Edo state, Nigeria. Asowa-Omorodion FI. **Soc Sci Med** 1997 Jun; 44(12):1817–24

Identity, ideology and inequality: methodologies in medical anthropology, Guatemala 1950–1995. Barrett B. **Soc Sci Med** 1997 Mar;44(5):579–87

The effects of health and treatment perceptions on the use of prescribed medication and home remedies among African American and white American hypertensives. Brown CM, et al. **Soc Sci Med** 1996 Sep;43(6):903–17

How lay is lay? Chinese students' perceptions of anorexia nervosa in Hong Kong. Lee S. **Soc Sci Med** 1997 Feb; 44(4):491–502

Intra-household allocation of food and health care: current findings and understandings--introduction. Messer E. **Soc Sci Med** 1997 Jun;44(11):1675–84 (46 ref.)

The narrative of AIDS among the Tonga of Zambia. Mogensen HO. **Soc Sci Med** 1997 Feb;44(4):431–9

Women's hidden transcripts about abortion in Brazil. Nations MK, et al. **Soc Sci Med** 1997 Jun;44(12):1833–45

"I'm not dog, no!": cries of resistance against cholera control campaigns. Nations MK, et al. **Soc Sci Med** 1996 Sep; 43(6):1007–24

Childbearing research: a transcultural review. Steinberg S. **Soc Sci Med** 1996 Dec;43(12):1765–84 (38 ref.)

Regional inequities in health expectancy in Belgium. Van Oyen H, et al. **Soc Sci Med** 1996 Dec;43(11):1673–8

Changing patterns of pharmaceutical practice in the United States. Vuckovic N, et al. **Soc Sci Med** 1997 May; 44(9):1285–302 (126 ref.)

The influence of acculturation on attitudes toward alcohol and alcohol use within the Punjabi community: an exploratory analysis. Weber TR. **Subst Use Misuse** 1996 Sep–Oct;31(11–12):1715–32

Acculturation and cervical cancer: knowledge, beliefs, and behaviors of Hispanic women. Harmon MP, et al. **Women Health** 1996;24(3):37–57

Women's attitudes toward breast cancer screening procedures: differences by ethnicity. Dibble SL, et al. **Womens Health Issues** 1997 Jan–Feb;7(1):47–54

[How to manage HIV seropositive or AIDS patients in rural Burkina Faso?] Taverne B. **Sante** 1997 May–Jun; 7(3):177–86 (16 ref.) (Eng. Abstr.) **(Fre)**

ATYPICAL ANTIDEPRESSANTS see **ANTIDEPRESSIVE AGENTS, SECOND-GENERATION**

ATYPICAL INTERSTITIAL PNEUMONIA OF CATTLE see **PNEUMONIA, ATYPICAL INTERSTITIAL, OF CATTLE**

AUC see **AREA UNDER CURVE**

AUDIOLOGY

Tooting your own horn. Hunt E. **ASHA** 1997 Summer; 39(3):32–5

Guidelines for audiology service delivery in nursing homes. Ad Hoc Committee on Audiology Service Delivery in Home Care and Institutional Settings. **ASHA Suppl** 1997 Spring;39(2 Suppl 17):15–29

British Society of Audiology short papers meeting on experimental studies of hearing and deafness. Cambridge, United Kingdom, 22–23 September 1996. Abstracts. **Br J Audiol** 1997 Apr;31(2):73–132

Patient satisfaction with time use in audiological consultations. Kargas S, et al. **Br J Audiol** 1996 Dec; 30(6):355–61

The administration of balance testing is within the audiologists scope of practice [letter; comment] Hill D. **Ear Nose Throat J** 1997 Jun;76(6):408, 410. Comment on: Ear Nose Throat J 1996 Dec;75(12);756.

1988 Audiology Practice Act [letter] Konrad HR. **Ear Nose Throat J** 1997 Jun;76(6):410

The Edmund Prince Fowler Award. Sasaki CT. **Laryngoscope** 1996 Dec;106(12 Pt 1):1463–4

Ear care projects for Estonia and Karelia. Salmivalli A, et al. **Scand Audiol** 1996;25(4):277–8

[Current problems of pediatric audiology. Part II. Fitting of hearing aids, cochlear implants and care of the child with hearing loss] Heinemann M. **Otolaryngol Pol** 1996; 50(1):66–72 (20 ref.) (Eng. Abstr.) **(Pol)**

[European federation of audiological societies (EFAS). Goals and purposes of the organization] Skarżyński H. **Otolaryngol Pol** 1995;49(5):499–506 **(Pol)**

ECONOMICS

Actuary data: what's in it for you? Wolf KE, et al. **ASHA** 1996 Spring;38(2):33–6

EDUCATION

Doctor of audiology program [letter] Welsh LW. **Am J Otol** 1997 Jan;18(1):129

For better or worse [editorial] Dancer J. **ASHA** 1996 Fall; 38(4):10

AFA takes issue with ASHA. Paarlberg SB. **ASHA** 1996 Spring;38(2):6

Audiologic rehabilitation [editorial] Jerger J. **J Am Acad Audiol** 1996 Aug;7(4):218

Epidemiologic issues in audiology: impact on professional training and service delivery. Cameron TH. **J Commun Disord** 1997 Jul–Aug;30(4):285–300; quiz 300–1 (50 ref.)

Epidemiology: an essential science for speech-language pathology and audiology. Lubker BB. **J Commun Disord** 1997 Jul–Aug;30(4):251–65; quiz 265–7 (33 ref.)

More education in paediatric audiology needed for child welfare clinic nurses and doctors. Maki-Torkko E, et al. **Public Health** 1997 Mar;111(2):93–6

HISTORY

Giuseppe Gradenigo and his contributions to audiology. Stephens D, et al. **J Laryngol Otol** 1997 May;111(5):418–23
Edmund Prince Fowler: linking basic and clinical science. Bailey BJ. **Laryngoscope** 1996 Dec;106(12 Pt 1):1457–62
The dawn of audiology and modern otology. Bailey BJ. **Laryngoscope** 1997 Apr;107(4):431–40

LEGISLATION & JURISPRUDENCE

Perspectives on a state enacted hearing screening assessment program in the newborn population. Abrams MJ, et al. **Am J Otol** 1997 May;18(3):368–72

MANPOWER

Audiologists' professional satisfaction. Martin FN, et al. **J Am Acad Audiol** 1997 Feb;8(1):11–7

STANDARDS

National treatment outcomes data for professionals and consumers. Swigert NB. **ASHA** 1997 Summer;39(3):49–50

TRENDS

Your association, past, present, and ...future perfect? Butler K. **ASHA** 1996 Spring;38(2):7
For better or worse [editorial] Dancer J. **ASHA** 1996 Fall; 38(4):10
[Quality assurance in audiology (editorial; comment)] Mösges R. **HNO** 1996 Jul;44(7):357. Comment on: HNO 1996 Jul;44(7):385–92. **(Ger)**

AUDIOMETRY

see related
ACOUSTIC IMPEDANCE TESTS

Preauricular tags and pits in the newborn: the role of hearing tests. Kugelman A, et al. **Acta Paediatr** 1997 Feb; 86(2):170–2
A study of the reliability of automatic audiometry by the frequency scanning method (Audioscan). Laroche C, et al. **Audiology** 1997 Jan–Feb;36(1):1–18
Measurement of variability in sound field audiometry due to subject movement. Beynon GJ, et al. **Br J Audiol** 1995 Oct;29(5):285–91
Audiometric changes in patients undergoing coronary artery bypass surgery. Phillipps JJ, et al. **Br J Audiol** 1996 Feb; 30(1):19–25
A pilot investigation of high-frequency audiometry in obscure auditory dysfunction (OAD) patients. Shaw GM, et al. **Br J Audiol** 1996 Aug;30(4):233–7
Recommended procedure: computer coding of audiometric thresholds. Sparkes C, et al. **Br J Audiol** 1995 Dec; 29(6):355–8
Immittance findings in school-aged children. Haapaniemi JJ. **Ear Hear** 1996 Feb;17(1):19–27
Audiogram of the big brown bat (Eptesicus fuscus). Koay G, et al. **Hear Res** 1997 Mar;105(1–2):202–10
[Quality assurance in audiology and pediatric audiology (see comments] Welzl-Müller K. **HNO** 1996 Jul;44(7):385–92 (26 ref.) (Eng. Abstr.). Comment in: HNO 1996 Jul;44(7):357. **(Ger)**
[Clinico-audiological characteristics of secretory otitis media in children] Lebedev IuA. **Vestn Otorinolaringol** 1996 Jul–Aug;(4):38–42 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Care with electrodes [letter] [see comments] Bennett JD. **Br J Audiol** 1995 Oct;29(5):293. Comment in: Br J Audiol 1996 Apr;30(2):151.

HISTORY

The Mel Scale's disqualifying bias and a consistency of pitch-difference equisections in 1956 with equal cochlear distances and equal frequency ratios. Greenwood DD. **Hear Res** 1997 Jan;103(1–2):199–224

INSTRUMENTATION

A cheap earphone for small animals with good frequency response in the ultrasonic frequency range. Schuller G. **J Neurosci Methods** 1997 Feb;71(2):187–90

METHODS

Dips on Békésy or audioscan fail to identify carriers of autosomal recessive non-syndromic hearing loss. Cohen M, et al. **Acta Otolaryngol (Stockh)** 1996 Jul;116(4):521–7
Applying research. Gravel JS. **ASHA** 1997 Summer; 39(3):44–5
Audioscan: a high-definition audiometry technique based on constant-level frequency sweeps--a new method with new hearing indicators. Meyer-Bisch C. **Audiology** 1996 Mar–Apr;35(2):63–72
Noise induced temporary otoacoustic emission shifts. Attias J, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):221–33
Tentative age-related norms for high frequency electric bone conduction audiometry. Voogt GR, et al. **S Afr J Commun Disord** 1995;42:49–52
[Audiometry in wide frequency range in early diagnosis of occupational partial hearing loss in locomotive drivers] Kholmatov DI. **Vestn Otorinolaringol** 1997;(1):24–6 (Eng. Abstr.) **(Rus)**

STANDARDS

Audiogram consistency needed [letter; comment] Lankin KM. **Mil Med** 1996 May;161(5):A5. Comment on: Mil Med 1996 Feb;161(2):108–12.

STATISTICS & NUMERICAL DATA

[The Würzburg free-field audiometry--categorial loudness scaling (comment)] Moser LM. **HNO** 1996 Oct; 44(10):556–8. Comment on: HNO 1996 Oct;44(10):577–84. **(Ger)**

AUDIOMETRY, BEKESY see **AUDIOMETRY, PURE-TONE**

AUDIOMETRY, ELECTROENCEPHALIC RESPONSE see **AUDIOMETRY, EVOKED RESPONSE**

AUDIOMETRY, EVOKED RESPONSE

Short term effects of induced middle ear pressure changes on the electrocochleogram in Menière's disease. Densert B, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):732–7
Electrocochleography during experimental cochlear ischemia of the guinea pig. Ogawa K, et al.
Acta Otolaryngol (Stockh) 1996 Mar;116(2):253–6
Electrocochleographic findings: Menière's disease versus sudden sensorineural hearing loss. Filipo R, et al.
Acta Otolaryngol Suppl (Stockh) 1997;526:21–3
ABR findings, electrocochleograms and caloric tests in vertebrobasilar ischemic rats. Nario K, et al.
Acta Otolaryngol Suppl (Stockh) 1997;528:63–6
A review of electrocochleography: instrumentation settings and meta-analysis of criteria for diagnosis of endolymphatic hydrops. Wuyts FL, et al.
Acta Otolaryngol Suppl (Stockh) 1997;526:14–20
Infant hearing screening with an automated auditory brainstem response screener and the auditory brainstem response. Chen SJ, et al. **Acta Paediatr** 1996 Jan;85(1):14–8
Electrocochleographic effects of ear canal pressure change in subjects with Menière's disease. Storms RF, et al.
Am J Otol 1996 Nov;17(6):874–82
Electrocochleographic analysis of the suppression of tinnitus by electrical promontory stimulation. Watanabe K, et al. **Audiology** 1997 May–Jun;36(3):147–54
Response thresholds in electrocochleography and their relation to the pure tone audiogram. Schoonhoven R, et al. **Ear Hear** 1996 Jun;17(3):266–75
Input/output curves to tone bursts and clicks in extratympanic and transtympanic electrocochleography. Schoonhoven R, et al. **Ear Hear** 1995 Dec;16(6):619–30
Neonatal hearing screening. Oudesluys-Murphy AM, et al. **Eur J Pediatr** 1996 Jun;155(6):429–35 (51 ref.)
Newborn hearing screening by otoacoustic emissions and automated auditory brainstem response. Doyle KJ, et al. **Int J Pediatr Otorhinolaryngol** 1997 Aug 20;41(2):111–9
The influence of aging on auditory brainstem response and electrocochleography in the elderly. Oku T, et al.
ORL J Otorhinolaryngol Relat Spec 1997 May–Jun; 59(3):141–6
Electrocochleography in retrosigmoid vestibular nerve section for intractable vertigo caused by Menière's disease. Krueger WW, et al. **Otolaryngol Head Neck Surg** 1997 Jun; 116(6 Pt 1):593–6
Auditory nerve disease of both ears revealed by auditory brainstem responses, electrocochleography and otoacoustic emissions. Kaga K, et al. **Scand Audiol** 1996;25(4):233–8
[Glycerol electrocochleographic test: role of endolymphatic sac?] Deggouj N, et al.
Rev Laryngol Otol Rhinol (Bord) 1996;117(3):253–7 (Eng. Abstr.) **(Fre)**
[Lermoyez syndrome--electrocochleographic studies] Maier W, et al. **Laryngorhinootologie** 1996 Jun;75(6):372–6 (Eng. Abstr.) **(Ger)**
[Functional changes in the cochlea of guinea pigs in chronic renal failure--electrocochleography. Effect of noise exposure] Ohashi T, et al.
Nippon Jibiinkoka Gakkai Kaiho 1997 Jun;100(6):685–93 (Eng. Abstr.) **(Jpn)**

ECONOMICS

A cost-effectiveness analysis of the high risk register and auditory brainstem response. Friedland DR, et al.
Int J Pediatr Otorhinolaryngol 1996 Dec 20;38(2):115–30

INSTRUMENTATION

Cochlear microphonics recordable at the non-shielded bedside using a new tubal transducer. Nishida H, et al.
Eur Arch Otorhinolaryngol Suppl 1997;1:S46–9

METHODS

Transtympanic electrocochleography in evaluation of cochleovestibular disorders. Johansson RK, et al.
Acta Otolaryngol Suppl (Stockh) 1997;529:63–5
Electrocochleography. Kumagami H, et al.
Adv Otorhinolaryngol 1997;53:1–20
The efficacy of tympanic electrocochleography in the diagnosis of endolymphatic hydrops [published erratum appears in Am J Otol 1996 Nov;17(6):918] Pou AM, et al. **Am J Otol** 1996 Jul;17(4):607–11
The effect of electrode position in electrocochleography. Deans JA, et al. **Clin Otolaryngol** 1996 Aug;21(4):317–23
Methods of sedation for auditory brainstem response testing. Reich DS, et al. **Int J Pediatr Otorhinolaryngol** 1996 Dec 20;38(2):131–41
[Amplitude modulation following response (AMFR)--a method for objective frequency specific audiologic diagnosis] Pethe J, et al. **Laryngorhinootologie** 1996 Jan; 75(1):23–8 (Eng. Abstr.) **(Ger)**
[Tympanic electrocochleography with disposable electrode] Matsuura K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul;99(7):1016–25 (Eng. Abstr.) **(Jpn)**

STATISTICS & NUMERICAL DATA

Interinterpreter variability in determining the SP/AP ratio in clinical electrocochleography. Roland PS, et al.
Laryngoscope 1997 Oct;107(10):1357–61

VETERINARY

Investigation of hearing impairment in Cavalier King Charles spaniels using auditory brainstem response audiometry [published erratum appears in J Small Anim Pract 1997 Feb;38(2):56] Munro KJ, et al. **J Small Anim Pract** 1997 Jan;38(1):2–5
[Screening for deafness in companion animals] Dijkshoorn NA, et al. **Tijdschr Diergeneeskd** 1997 Mar 15;122(6):168–9 **(Dut)**

AUDIOMETRY, IMPEDANCE see **ACOUSTIC IMPEDANCE TESTS**

AUDIOMETRY, PURE-TONE

Dips on Békésy or audioscan fail to identify carriers of autosomal recessive non-syndromic hearing loss. Cohen M, et al. **Acta Otolaryngol (Stockh)** 1996 Jul;116(4):521–7
Predicting neuroradiologic outcome in patients referred for audiovestibular dysfunction. Levy RA, et al.
AJNR Am J Neuroradiol 1996 Oct;17(9):1717–24
Investigation of the 4,000-Hertz dip by detailed audiometry. Murai K. **Ann Otol Rhinol Laryngol** 1997 May; 106(5):408–13
Improving audiometric thresholds by changing the headphone position at the ear. Flottorp G. **Audiology** 1995 Sep–Oct;34(5):221–31
The value of routine in-the-ear measurement of hearing aid gain. Swan IR, et al. **Br J Audiol** 1995 Oct;29(5):271–7
Response thresholds in electrocochleography and their relation to the pure tone audiogram. Schoonhoven R, et al. **Ear Hear** 1996 Jun;17(3):266–75
Phase delay measurements of distortion product otoacoustic emissions at 2f1–f2 and 2f2–f1 in human ears. Wable J, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2228–35
Problems in assessing the audiogram in patients with severe hearing impairment. Giles M, et al. **J Laryngol Otol** 1996 Aug;110(8):727–31
Value of self-identification of hearing loss in a screening program for older adults. Dancer J, et al.
Percept Mot Skills 1996 Aug;83(1):114
[Hearing handicap--an addition to audiometric hearing loss. Results of an exploratory study of auditory communication disorders in the elderly] Bertoli S, et al. **HNO** 1996 Jul; 44(7):376–84 (Eng. Abstr.) **(Ger)**
[Determination of hearing loss and disability assessment from pure tone audiometry and speech audiometry in occupational noise-induced hearing loss] Brusis T.
Laryngorhinootologie 1996 Dec;75(12):732–8 (Eng. Abstr.) **(Ger)**
[Course of the audiometric threshold in relation to the age in chronic acoustic trauma] Albera R. **Med Lav** 1997 Mar–Apr;88(2):121–30 (Eng. Abstr.) **(Ita)**
[Relationship between distortion product otoacoustic emissions and pure tone thresholds in normal and hearing-impaired ears] Chida E, et al.
Nippon Jibiinkoka Gakkai Kaiho 1997 Apr;100(4):436–43 (Eng. Abstr.) **(Jpn)**
[Dip-shaped hearing loss of Békésy audiogram in high school students] Inoue Y, et al.
Nippon Jibiinkoka Gakkai Kaiho 1996 Mar;99(3):432–44 (Eng. Abstr.) **(Jpn)**
[Correlation between the age-dependent changes in caloric response and in pure tone hearing] Ohira S.
Nippon Jibiinkoka Gakkai Kaiho 1997 Jun;100(6):706–13 (Eng. Abstr.) **(Jpn)**
[Characteristics of auditory brainstem response in presbyacusis--compared with the results of pure tone, speech or binaural audiometry] Ohtsuka Y.
Nippon Jibiinkoka Gakkai Kaiho 1996 Dec;99(12):1764–71 (Eng. Abstr.) **(Jpn)**
[Pure-tone audiometry (air and bone conductive threshold test)] Shidara J, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:466–8 (0 ref.) **(Jpn)**
[Otoacoustic emission measurements: clinical case reports. Part II] Kowalska S, et al. **Otolaryngol Pol** 1996;50(5):542–7 (Eng. Abstr.) **(Pol)**

AUDIOMETRY, PURE-TONE

ADVERSE EFFECTS

Characterizing cochlear mechano-electric transduction in ears damaged with pure tones. Chertoff ME, et al. **J Acoust Soc Am** 1997 Jul;102(1):441-50

HISTORY

[History of the tuning fork. III: On the way to quantitative pure-tone measurement. Pictures from the history of otorhinolaryngology, represented by instruments from the collection of the Ingolstadt German Medical History Museum] Feldmann H. **Laryngorhinootologie** 1997 Jul; 76(7):428-34 (Eng. Abstr.) **(Ger)**

METHODS

[Recruitment detection--a comparison of category loudness scaling and classical supra-threshold audiometry] Kiessling J, et al. **Laryngorhinootologie** 1996 Jan;75(1):10-7 (Eng. Abstr.) **(Ger)**

AUDIOMETRY, SPEECH

Implantable hearing aid using a piezoelectric ossicular vibrator: a speech audiometric study. Gyo K, et al. **Audiology** 1996 Sep-Oct;35(5):271-6

Evaluation of the list of numerals in the Danish speech audiometry material. Dantale. Olsen SO. **Scand Audiol** 1996;25(2):103-7

[Hearing handicap--an addition to audiometric hearing loss. Results of an exploratory study of auditory communication disorders in the elderly] Bertoli S, et al. **HNO** 1996 Jul; 44(7):376-84 (Eng. Abstr.) **(Ger)**

[Determination of hearing loss and disability assessment from pure tone audiometry and speech audiometry in occupational noise-induced hearing loss] Brusis T. **Laryngorhinootologie** 1996 Dec;75(12):732-8 (Eng. Abstr.) **(Ger)**

[Characteristics of auditory brainstem response in presbyacusis--compared with the results of pure tone, speech or binaural audiometry] Ohtsuka Y. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Dec;99(12):1764-71 (Eng. Abstr.) **(Jpn)**

[Tests of auditory perception of speech (TAPS) for children with cochlear implants] Demenko G, et al. **Otolaryngol Pol** 1996;50(6):628-32 (Eng. Abstr.) **(Pol)**

[Method of rapid assessment of speech communication conditions in noisy industrial premises] Tsaneva L. **Gig Sanit** 1996 Sep-Oct;(5):36-8 **(Rus)**

INSTRUMENTATION

[Speech audiometry with logatomes] Welge-Lüssen A, et al. **Laryngorhinootologie** 1997 Feb;76(2):57-64 (Eng. Abstr.) **(Ger)**

METHODS

Select picture audiometry in an office setting. Combs JT, et al. **Clin Pediatr (Phila)** 1996 Mar;35(3):161-4

AUDIOVISUAL AIDS

Videoconferencing systems [letter] Reznich CB. **Acad Med** 1997 Jul;72(7):565-6

Overhead transparency skills for perioperative nurse educators. Beitz JM. **AORN J** 1996 Oct;64(4):580-2, 585-7

Do's and don't's of poster presentation. Block SM. **Biophys J** 1996 Dec;71(6):3527-9

Publication-quality labeling of gels using transparency-mounted photographs and word processing software. Pavlik EJ, et al. **Biotechniques** 1996 Dec; 21(6):1126-7

Computer generated slides: a need to curb our enthusiasm. Dalal MD, et al. **Br J Plast Surg** 1996 Dec;49(8):568-71

Multimedia courseware. Transforming the classroom. Goodman J, et al. **Comput Nurs** 1996 Sep-Oct;14(5):287-96; quiz 297-8

A simple visual assessment technique to discriminate between menorrhagia and normal menstrual blood loss. Janssen CA. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec;70(1):21-2 (8 ref.)

Simple and rapid production of radiographic slides or prints using a personal computer and a laser imager. Hiromura T, et al. **Eur J Radiol** 1996 Sep;23(2):159-61

Visual memory support: an effective mnemonic device for older adults. Sharps MJ, et al. **Gerontologist** 1996 Oct; 36(5):706-8

Research communication media: creating an outstanding impression with abstracts, poster exhibits, and slides. Russell JA, et al. **Instr Course Lect** 1994;43:625-37 (29 ref.)

The use of computer technology to improve the effectiveness of orthopaedic presentations. Russell JA, et al. **Instr Course Lect** 1997;46:595-610 (27 ref.)

Client education levels and the effectiveness of node-link maps. Pitre U, et al. **J Addict Dis** 1996;15(3):27-44

Analysis of methods for predicting near-magnification power. Elam JH. **J Am Optom Assoc** 1997 Jan;68(1):31-6

Audiovisual aids: guidelines for the use of overhead projector [letter] Sood R. **J Assoc Physicians India** 1996 Nov; 44(11):846

Multimedia dental patient education systems. Coles B. **J Can Dent Assoc** 1996 Mar;62(3):247-8

Visual symbolization as a learning tool: teaching pharmacology to international audiences. Giannini AJ, et al. **J Clin Pharmacol** 1997 Jul;37(7):559-65

Effectiveness of node-link mapping enhanced counseling for opiate addicts: a 12-month posttreatment follow-up. Joe GW, et al. **J Nerv Ment Dis** 1997 May;185(5):306-13

A circular diagram for representing symptom status in advanced cancer patients. Mercadante S, et al. **J Palliat Care** 1996 Spring;12(1):42-5

"Eggs-perimenting" with seat belt safety. Wood DN. **J Sch Health** 1996 Feb;66(2):79-80

Role play: staff-developed posters--an avenue to enhance nurses' self-worth. Mohr L. **J Soc Pediatr Nurs** 1997 Jan-Mar;2(1):47-8

Use of visual organizers in place of nursing care plans when caring for children. Woodring BC, et al. **J Soc Pediatr Nurs** 1996 Oct-Dec;1(3):143-7

Stick to life: a sticker competition for smoking prevention. Freitas FA. **MCN Am J Matern Child Nurs** 1997 Jan-Feb; 22(1):50-1

Poster presentations: getting your point across. Morin KH. **MCN Am J Matern Child Nurs** 1996 Nov-Dec; 21(6):307-10 (2 ref.)

Images of molecular medicine [news] **Mol Med Today** 1997 May;3(5):185

Mode of interview and reporting of sensitive issues: design and implementation of audio computer-assisted self-interviewing. Lessler JT, et al. **NIDA Res Monogr** 1997;167:366-82 (27 ref.)

Emergency text slide production [letter] Nancarrow JD. **Plast Reconstr Surg** 1997 Jan;99(1):264

Educational lectures and films in the clinical treatment of alcoholism: a critique. Conner KR, et al. **Subst Use Misuse** 1996 Jul;31(9):1117-29

CD-ROM multimedia. The step before virtual reality. Rosser J. **Surg Endosc** 1996 Oct;10(10):1033-5

Working with slides and transparencies for presentations. Gelula MH. **Surg Neurol** 1997 Mar;47(3):308-12

An evaluation and improvement program for inpatient anticoagulant control. Phillips WS, et al. **Thromb Haemost** 1997 Feb;77(2):283-8

[End of the slide era?] Cohen M, et al. **Harefuah** 1996 Jul; 131(1-2):54-6 **(Heb)**

[Interactive atlas with magnetic resonance on CD-ROM for Macintosh] Montanari N, et al. **Radiol Med (Torino)** 1996 Nov;92(5):610-3 (Eng. Abstr.) **(Ita)**

[Technical means in the study of the structure of the human being] Simbirtsev SA. **Morfologiia** 1997;111(1):106-10 **(Rus)**

HISTORY

[Richard Völker and the scientific film (short documentary report)] Buntenkötter S. **DTW Dtsch Tierarztl Wochenschr** 1996 May;103(5):163-4 (Eng. Abstr.) **(Ger)**

STANDARDS

On constructing graphs [letter] Boba A. **Crit Care Med** 1997 Sep;25(9):1612

Audiovisual aids: guidelines for the use of overhead projector. Harikrishnan KM. **J Assoc Physicians India** 1996 Jun;44(6):395-6, 401

Reliability and validity of the Faces and Word Descriptor Scales to measure procedural pain. Keck JF, et al. **J Pediatr Nurs** 1996 Dec;11(6):368-74

AUDITORY BRAIN STEM EVOKED RESPONSES see **EVOKED POTENTIALS, AUDITORY, BRAIN STEM**

AUDITORY CANAL, EXTERNAL see **EAR CANAL**

AUDITORY CORTEX

see related
AUDITORY DISEASES, CENTRAL

ANATOMY & HISTOLOGY

The development of auditory callosal connections in normal and hypothyroid rats. Lucio RA, et al. **Cereb Cortex** 1997 Jun;7(4):303-16

Interhemispheric anatomical differences in human primary auditory cortex: probabilistic mapping and volume measurement from magnetic resonance scans. Penhune VB, et al. **Cereb Cortex** 1996 Sep-Oct;6(5):661-72

Organization of sensory cortex in a Madagascan insectivore, the tenrec (Echinops telfairi). Krubitzer L, et al. **J Comp Neurol** 1997 Mar 17;379(3):399-414

Distribution of descending projections from primary auditory neocortex to inferior colliculus mimics the topography of intracollicular projections. Saldaña E, et al. **J Comp Neurol** 1996 Jul 15;371(1):15-40

CHEMISTRY

Auditory cortex neurons: primary culture and ion channel activity in rat. Moore EJ, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):776-82

CYTOLOGY

Vestibulospinal, reticulospinal and descending propriospinal nerve fibres in man. Nathan PW, et al. **Brain** 1996 Dec; 119 (Pt 6):1809-33

A comparison of tone-evoked response properties of 'cluster' recordings and their constituent single cells in the auditory cortex. South DA, et al. **Brain Res** 1995 Dec 18; 704(2):275-88

DRUG EFFECTS

Auditory cortical neurons in vitro: initial pharmacological studies. Gopal KV, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):697-704

Muscarinic reduction of GABAergic synaptic potentials results in disinhibition of the AMPA/kainate-mediated EPSP in auditory cortex. Aramakis VB, et al. **Brain Res** 1997 May 30;758(1-2):107-17

Differential effects of acetylcholine on neuronal activity and interactions in the auditory cortex of the guinea-pig. Shulz DE, et al. **Eur J Neurosci** 1997 Feb;9(2):396-409

Activation of muscarinic receptors modulates NMDA receptor-mediated responses in auditory cortex. Aramakis VB, et al. **Exp Brain Res** 1997 Mar;113(3):484-96

Influence of urethane anesthesia on neural processing in the auditory cortex analogue of a songbird. Capsius B, et al. **Hear Res** 1996 Jul;96(1-2):59-70

Cellular generators of the binaural difference potential in cat. Melcher JR. **Hear Res** 1996 May;95(1-2):144-60

Effects of salicylate on neural activity in cat primary auditory cortex. Ochi K, et al. **Hear Res** 1996 May;95(1-2):63-76

Effects of quinine on neural activity in cat primary auditory cortex. Ochi K, et al. **Hear Res** 1997 Mar;105(1-2):105-18

Basic fibroblast growth factor (FGF-2) affects development of acoustico-vestibular neurons in the chick embryo brain in vitro. Zhou X, et al. **Hear Res** 1996 Apr;93(1-2):147-66

Salicylate alters 2-DG uptake in the auditory system: a model for tinnitus? Wallhäusser-Franke E, et al. **Neuroreport** 1996 Jul 8;7(10):1585-8

[Effects of salicylate and quinine on cat primary auditory cortex--spontaneous firing rate] Ochi K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jan;100(1):51-8 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Acetylcholinesterase staining in human auditory and language cortices: regional variation of structural features. Hutsler JJ, et al. **Cereb Cortex** 1996 Mar-Apr;6(2):260-70

GROWTH & DEVELOPMENT

The development of auditory callosal connections in normal and hypothyroid rats. Lucio RA, et al. **Cereb Cortex** 1997 Jun;7(4):303-16

METABOLISM

Functional MR spectroscopy of the auditory cortex in healthy subjects and patients with sudden hearing loss [see comments] Richards TL, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):611-20. Comment in: AJNR Am J Neuroradiol 1997 Apr;18(4):621-3.

Mitochondrial distribution in visual and auditory cerebral cortex of the harbour porpoise. Revishchin AV, et al. **Brain Behav Evol** 1996;47(5):257-66

Transient developmental expression of CD15 in the motor and auditory cortex of the mouse. Ashwell KW, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):143-8

Regional distribution of a creatine transporter in rat auditory brainstem: an in-situ hybridization study. Hiel H, et al. **Hear Res** 1996 Sep 1;98(1-2):29-37

Development of adult-type inhibitory glycine receptors in the central auditory system of rats. Friauf E, et al. **J Comp Neurol** 1997 Aug 18;385(1):117-34

Distribution of the calcium-binding proteins parvalbumin and calretinin in the auditory brainstem of adult and developing rats. Lohmann C, et al. **J Comp Neurol** 1996 Mar 25; 367(1):90-109

Development of Cat-301 immunoreactivity in auditory brainstem nuclei of the gerbil. Lurie DI, et al. **J Comp Neurol** 1997 Apr 14;380(3):319-34

Distribution of glycine and GABA immunoreactivities in the cochlear nucleus: quantitative patterns of putative inhibitory inputs on three cell types. Juiz JM, et al. **J Hirnforsch** 1996;37(4):561-74

Dopaminergic and serotonergic neurotransmission systems are differentially involved in auditory cortex learning: a long-term microdialysis study of metabolites. Stark H, et al. **J Neurochem** 1997 Feb;68(2):691-7

Focal metabolic activation in the predominant left auditory cortex in patients suffering from tinnitus: a PET study with [18F]deoxyglucose. Arnold W, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Jul-Aug; 58(4):195-9

PATHOLOGY

John Strainer, 1996 recipient of the Cornelius Dyke Award. Haughton VM, et al. **AJNR Am J Neuroradiol** 1997 Jan; 18(1):189

[Changes in the auditory area of the cerebral cortex with clinical and experimental actions on the hypothalamus] Shustova TI, et al. **Morfologiia** 1996;109(2):7-11 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Auditory cortical neurons in vitro: cell culture and

multichannel extracellular recording. Gopal KV, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):690–6
Some functions of primary auditory cortex in learning and memory formation. Scheich H, et al. **Adv Neurol** 1997; 73:179–93 (33 ref.)
Neuromagnetic approach to human auditory cortical functions, with emphasis on subjects with cochlear implants. Hari R. **Adv Otorhinolaryngol** 1997;52:15–8
Functional MR of the primary auditory cortex: an analysis of pure tone activation and tone discrimination [see comments] Strainer JC, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):601–10. Comment in: AJNR Am J Neuroradiol 1997 Apr;18(4):621–3.
Functional neuroimaging in the study of the human auditory cortex [comment] Zatorre RJ. **AJNR Am J Neuroradiol** 1997 Apr;18(4):621–3. Comment on: AJNR Am J Neuroradiol 1997 Apr;18(4):601–10. Comment on: AJNR Am J Neuroradiol 1997 Apr;18(4):611–20.
Neurobehavioral studies of the central auditory system. Masterton RB. **Ann Otol Rhinol Laryngol Suppl** 1997 May; 168:31–4 (41 ref.)
Electroencephalographic responses to briefly introduced interaural intensity differences. Ungan P, et al. **Audiology** 1996 Nov–Dec;35(6):307–21
Recovery of function after neonatal ablation of the auditory cortex in rats (Rattus norvegicus). Wakita M. **Behav Brain Res** 1996 Aug;78(2):201–9
Induction of receptive field plasticity in the auditory cortex of the guinea pig during instrumental avoidance conditioning. Bakin JS, et al. **Behav Neurosci** 1996 Oct; 110(5):905–13
Function of the left planum temporale in auditory and linguistic processing. Binder JR, et al. **Brain** 1996 Aug;119 (Pt 4):1239–47
The effects of subcortical lesions on evoked potentials and spontaneous high frequency (gamma-band) oscillating potentials in rat auditory cortex. Brett B, et al. **Brain Res** 1996 May 20;721(1–2):155–66
A chronic microelectrode investigation of the tonotopic organization of human auditory cortex. Howard MA 3rd, et al. **Brain Res** 1996 Jun 17;724(2):260–4
High frequency (gamma-band) oscillating potentials in rat somatosensory and auditory cortex. MacDonald KD, et al. **Brain Res** 1995 Oct 2;694(1–2):1–12
Human auditory cortex is activated by omissions of auditory stimuli. Raij T, et al. **Brain Res** 1997 Jan 16;745(1–2):134–43
Stimulus generalization of fear responses: effects of auditory cortex lesions in a computational model and in rats. Armony JL, et al. **Cereb Cortex** 1997 Mar;7(2):157–65
Suprathreshold auditory cortex activation visualized by intrinsic signal optical imaging. Bakin JS, et al. **Cereb Cortex** 1996 Mar–Apr;6(2):120–30
Deviant auditory stimuli activate human left and right auditory cortex differently. Levänen S, et al. **Cereb Cortex** 1996 Mar–Apr;6(2):288–96
Responses of bat inferior collicular and auditory cortical neurons to pulsatile amplitude modulated sound pulses. Wu M, et al. **Chin J Physiol** 1996;39(3):167–76
Injury- and use-related plasticity in the primary sensory cortex of adult mammals: possible relationship to perceptual learning. Irvine DR, et al. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov;23(10–11):939–47 (56 ref.)
A direct demonstration of functional specialization within motion-related visual and auditory cortex of the human brain. Howard RJ, et al. **Curr Biol** 1996 Aug 1;6(8):1015–9
Mismatch field to tone pairs: neuromagnetic evidence for temporal integration at the sensory level. Csépe V, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan;104(1):1–9
Intensity dependence of auditory evoked potentials in behaving cats. Juckel G, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 100(6):527–37
Human long-latency responses to brief interaural disparities of intensity. Ungan P, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 99(5):479–90
Optical imaging of cat auditory cortex cochleotopic selectivity evoked by acute electrical stimulation of a multi-channel cochlear implant. Dinse HR, et al. **Eur J Neurosci** 1997 Jan;9(1):113–9
Effects of noradrenaline on frequency tuning of rat auditory cortex neurons. Manunta Y, et al. **Eur J Neurosci** 1997 Apr;9(4):833–47
Differential frequency conditioning enhances spectral contrast sensitivity of units in auditory cortex (field Al) of the alert Mongolian gerbil. Ohl FW, et al. **Eur J Neurosci** 1996 May;8(5):1001–17
Modulation of cerebral blood flow in the human auditory cortex during speech: role of motor-to-sensory discharges. Paus T, et al. **Eur J Neurosci** 1996 Nov;8(11):2236–46
Neural connectivity only accounts for a small part of neural correlation in auditory cortex. Eggermont JJ, et al. **Exp Brain Res** 1996 Aug;110(3):379–91
Cortical activation by monaural speech sound stimulation demonstrated by positron emission tomography. Hirano S, et al. **Exp Brain Res** 1997 Jan;113(1):75–80
Long-term potentiation of supragranular pyramidal outputs in the rat auditory cortex. Kudoh M, et al. **Exp Brain Res** 1996 Jun;110(1):21–7
Effects of voluntary movements on early auditory brain responses. Makeig S, et al. **Exp Brain Res** 1996 Aug; 110(3):487–92
Auditory evoked fields to illusory sound source movements. Mäkelä JP, et al. **Exp Brain Res** 1996 Aug;110(3):446–54
Reorganization in the auditory cortex of the rat induced by intracortical microstimulation: a multiple single-unit study. Maldonado PE, et al. **Exp Brain Res** 1996 Dec; 112(3):420–30
Neuronal assembly dynamics in the rat auditory cortex during reorganization induced by intracortical microstimulation. Maldonado PE, et al. **Exp Brain Res** 1996 Dec; 112(3):431–41
Temporal coding of low-frequency amplitude modulation in the torus semicircularis of the grass frog. Bibikov NG, et al. **Hear Res** 1996 Nov 1;101(1–2):23–44
Tonotopic mapping in auditory cortex of the chinchilla. Harrison RV, et al. **Hear Res** 1996 Oct;100(1–2):157–63
Response properties of units in the posterior auditory field deprived of input from the ipsilateral primary auditory cortex. Kitzes LM, et al. **Hear Res** 1996 Oct; 100(1–2):120–30
Neuronal correlates of perceptual amplitude-modulation detection. Lorenzi C, et al. **Hear Res** 1995 Oct; 90(1–2):219–27
Binaural fusion and the representation of virtual pitch in the human auditory cortex. Pantev C, et al. **Hear Res** 1996 Oct;100(1–2):164–70
Tonotopic organization of the sources of human auditory steady-state responses. Pantev C, et al. **Hear Res** 1996 Nov 1;101(1–2):62–74
Stimulus-induced spike bursts in two fields of cat auditory cortex. Phillips DP, et al. **Hear Res** 1996 Aug; 97(1–2):165–73
Decreased auditory function in the C3H/lpr autoimmune disease mouse. Trune DR, et al. **Hear Res** 1996 May; 95(1–2):57–62
Auditory cortical responses in humans with profound unilateral sensorineural hearing loss from early childhood. Vasama JP, et al. **Hear Res** 1997 Feb;104(1–2):183–90
Temporal integration in the echolocating bat, Megaderma lyra. Wiegrebe L, et al. **Hear Res** 1996 Dec 1; 102(1–2):35–42
The midbrain creates and the thalamus sharpens echo-delay tuning for the cortical representation of target-distance information in the mustached bat. Yan J, et al. **Hear Res** 1996 Apr;93(1–2):102–10
Low-frequency oscillations of visual, auditory and somatosensory cortical neurons evoked by sensory stimulation. Dinse HR, et al. **Int J Psychophysiol** 1997 Jun; 26(1–3):205–27 (31 ref.)
The effects of decreased audibility produced by high-pass noise masking on cortical event-related potentials to speech sounds/ba/and/da. Martin BA, et al. **J Acoust Soc Am** 1997 Mar;101(3):1585–99
Two separate codes for missing-fundamental pitch in the human auditory cortex. Winkler I, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1072–82
Tonotopic organization of auditory cortical fields delineated by parvalbumin immunoreactivity in macaque monkeys. Kosaki H, et al. **J Comp Neurol** 1997 Sep 22;386(2):304–16
Serial and parallel processing in rhesus monkey auditory cortex. Rauschecker JP, et al. **J Comp Neurol** 1997 May 26;382(1):89–103
Encoding of sound duration by neurons in the auditory cortex of the little brown bat, Myotis lucifugus. Galazyuk AV, et al. **J Comp Physiol [A]** 1997 Apr;180(4):301–11
Temporally patterned pulse trains affect directional sensitivity of inferior collicular neurons of the big brown bat, Eptesicus fuscus. Wu MI, et al. **J Comp Physiol [A]** 1996 Sep;179(3):385–93
Cortical synthesis of azimuth-sensitive single-unit responses with nonmonotonic level tuning: a thalamocortical comparison in the cat. Barone P, et al. **J Neurophysiol** 1996 Mar;75(3):1206–20
Subcortical modulation of high-frequency (gamma band) oscillating potentials in auditory cortex. Brett B, et al. **J Neurophysiol** 1997 Aug;78(2):573–81
Time course of forward masking tuning curves in cat primary auditory cortex. Brosch M, et al. **J Neurophysiol** 1997 Feb; 77(2):923–43
Functional magnetic resonance imaging assessment of the human brain auditory cortex response to increasing word presentation rates. Dhankhar A, et al. **J Neurophysiol** 1997 Jan;77(1):476–83
Auditory cortical onset responses revisited. I. First-spike timing. Heil P. **J Neurophysiol** 1997 May;77(5):2616–41
Sound localization after transection of the commissure of Probst in the albino rat. Ito M, et al. **J Neurophysiol** 1996 Nov;76(5):3493–502
Analysis of dynamic spectra in ferret primary auditory cortex. I. Characteristics of single-unit responses to moving ripple spectra. Kowalski N, et al. **J Neurophysiol** 1996 Nov; 76(5):3503–23
Analysis of dynamic spectra in ferret primary auditory cortex. II. Prediction of unit responses to arbitrary dynamic spectra. Kowalski N, et al. **J Neurophysiol** 1996 Nov; 76(5):3524–34
Neuronal responses in cat primary auditory cortex to electrical cochlear stimulation. II. Repetition rate coding. Schreiner CE, et al. **J Neurophysiol** 1996 Mar; 75(3):1283–300
Sharpening of frequency tuning by inhibition in the thalamic auditory nucleus of the mustached bat. Suga N, et al. **J Neurophysiol** 1997 Apr;77(4):2098–114
In vitro brain slice studies of the rat's dorsal nucleus of the lateral lemniscus. III. synaptic pharmacology. Wu SH, et al. **J Neurophysiol** 1996 Mar;75(3):1271–82
Binaural cross-correlation predicts the responses of neurons in the owl's auditory space map under conditions simulating summing localization. Keller CH, et al. **J Neurosci** 1996 Jul 1;16(13):4300–9
Hierarchical organization of auditory temporal context sensitivity. Lewicki MS, et al. **J Neurosci** 1996 Nov 1; 16(21):6987–98
Learning and generalization of auditory temporal-interval discrimination in humans. Wright BA, et al. **J Neurosci** 1997 May 15;17(10):3956–63
Optical imaging of spatiotemporal patterns of glutamatergic excitation and GABAergic inhibition in the guinea-pig auditory cortex in vivo. Horikawa J, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):629–38
Corticofugal modulation of frequency processing in bat auditory system. Zhang Y, et al. **Nature** 1997 Jun 26; 387(6636):900–3
Auditory hallucinations inhibit exogenous activation of auditory association cortex. David AS, et al. **Neuroreport** 1996 Mar 22;7(4):932–6
Burst-firing sharpens frequency-tuning in primary auditory cortex. Eggermont JJ, et al. **Neuroreport** 1996 Feb 29; 7(3):753–7
Firing rate and firing synchrony distinguish dynamic from steady state sound. Eggermont JJ. **Neuroreport** 1997 Aug 18;8(12):2709–13
On determinants of first-spike latency in auditory cortex. Heil P, et al. **Neuroreport** 1996 Nov 25;7(18):3073–6
Optical and FDG mapping of frequency-specific activity in auditory cortex. Hess A, et al. **Neuroreport** 1996 Nov 4; 7(15–17):2643–7
Autonomous cortical rhythms affect temporal modulation transfer functions. Kenmochi M, et al. **Neuroreport** 1997 May 6;8(7):1589–93
Human cortico-hippocampal activity related to auditory discrimination revealed by neuromagnetic field. Kikuchi Y, et al. **Neuroreport** 1997 May 6;8(7):1657–61
The role of the temporal coding system in the auditory cortex on speech recognition. Kojima H, et al. **Neuroreport** 1997 Jul 7;8(9–10):2395–8
Facilitative responses to species-specific calls in cortical FM-FM neurons of the mustached bat. Ohlemiller KK, et al. **Neuroreport** 1996 Jul 29;7(11):1749–55
Latency of auditory evoked M100 as a function of tone frequency. Roberts TP, et al. **Neuroreport** 1996 Apr 26; 7(6):1138–40
Neural mechanisms of the octave illusion: electrophysiological evidence for central origin. Ross J, et al. **Neuroreport** 1996 Dec 20;8(1):303–6
Neuronal correlates of auditory induction in the cat cortex. Sugita Y. **Neuroreport** 1997 Mar 24;8(5):1155–9
LTD and LTP induced by transcranial magnetic stimulation in auditory cortex. Wang H, et al. **Neuroreport** 1996 Jan 31;7(2):521–5
Modulation of auditory and visual cortex by selective attention is modality-dependent. Woodruff PW, et al. **Neuroreport** 1996 Aug 12;7(12):1909–13
Changes in the auditory cortex of the brain in situations affecting the hypothalamus in clinical states and experimental studies. Shustova TI, et al. **Neurosci Behav Physiol** 1997 Mar–Apr;27(2):173–7
Long-term changes in the efficiency of inhibitory transmission in the thalamocortical neuronal networks induced by microstimulation of the cortex. Silkis IG. **Neurosci Behav Physiol** 1996 Sep–Dec;26(5):416–27
Evidence for reactive magnetic 10-Hz rhythm in the human auditory cortex. Lehtelä L, et al. **Neurosci Lett** 1997 Jan 31;222(2):111–4
Processing of vowels in supratemporal auditory cortex. Poeppel D, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):145–8
Sensory response properties of cortical neurons in the anterior ectosylvian sulcus of cats: intracellular recording and labeling. Kimura A, et al. **Neurosci Res** 1996 Dec; 26(4):357–67
Midlatency auditory evoked potentials and the startle response in the rat. Miyazato H, et al. **Neuroscience** 1996 Nov;75(1):289–300
SPET monitoring of perfusion changes in auditory cortex following mono- and multi-frequency stimuli. de Rossi G, et al. **Nuklearmedizin** 1996 Aug;35(4):112–5
Role of cortical N-methyl-D-aspartate receptors in auditory sensory memory and mismatch negativity generation: implications for schizophrenia. Javitt DC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11962–7
Orderly cortical representation of vowels based on formant interaction. Ohl FW, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9440–4
Modification of tonotopic representation in the auditory system during development. Romand R. **Prog Neurobiol** 1997 Jan;51(1):1–17 (185 ref.)
Attention modulates auditory pattern memory as indexed by event-related brain potentials. Alain C, et al. **Psychophysiology** 1997 Sep;34(5):534–46
Magnetic fields elicited by tones and vowel formants reveal tonotopy and nonlinear summation of cortical activation. Diesch E, et al. **Psychophysiology** 1997 Sep;34(5):501–10
Activation of auditory cortex during silent lipreading. Calvert GA, et al. **Science** 1997 Apr 25;276(5312):593–6
[Effects of salicylate and quinine on cat primary auditory

cortex—spontaneous firing rate] Ochi K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jan;100(1):51–8 (Eng. Abstr.) **(Jpn)**

[Neuronal discharges of the rat auditory cortex during intracortical electrical stimulation] Maldonado P, et al. **Fiziol Zh Im I M Sechenova** 1996 May–Jun;82(5–6):3–17 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Topography of auditory evoked long-latency potentials in children with severe language impairment: the T complex. Tonnquist-Uhlén I. **Acta Otolaryngol (Stockh)** 1996 Sep; 116(5):680–9

Effects of bilateral auditory cortical lesions on gap-detection thresholds in the ferret (Mustela putorius). Kelly JB, et al. **Behav Neurosci** 1996 Jun;110(3):542–50

Event-related potentials during auditory and somatosensory discrimination in sighted and blind human subjects. Röder B, et al. **Brain Res Cogn Brain Res** 1996 Sep;4(2):77–93

The effect of auditory experience on hemispheric asymmetry in a post-lingually deaf child: a case study. Szelag E. **Cortex** 1996 Dec;32(4):647–61

Auditory cortex activation in deaf subjects during cochlear electrical stimulation. Evaluation by functional magnetic resonance imaging. Berthezène Y, et al. **Invest Radiol** 1997 May;32(5):297–301

Auditory evoked potentials in multiple sclerosis: correlation with magnetic resonance imaging. Hendler T, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):245–78

Alzheimer's disease affects parallel processing between the auditory cortices. Pekkonen E, et al. **Neuroreport** 1996 May 31;7(8):1365–8

Auditory system plasticity in children after long periods of complete deafness. Ponton CW, et al. **Neuroreport** 1996 Dec 20;8(1):61–5

Changes in the auditory cortex of the brain in situations affecting the hypothalamus in clinical states and experimental studies. Shustova TI, et al. **Neurosci Behav Physiol** 1997 Mar–Apr;27(2):173–7

Topography of auditory evoked cortical potentials in children with severe language impairment. Tonnquist-Uhlén I. **Scand Audiol Suppl** 1996;44:1–40

[The perception of targeted signals in the auditory and somatosensory systems with a lesion of the brain stem] Lytaev SA. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan–Feb;47(1):38–48 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Functional neuroimaging: radiology. Hunter JV. **Curr Opin Neurol** 1996 Feb;9(1):37–41 (42 ref.)

SPET monitoring of perfusion changes in auditory cortex following mono- and multi-frequency stimuli. de Rossi G, et al. **Nuklearmedizin** 1996 Aug;35(4):112–5

SURGERY

Tumors of Heschl's gyrus: report of two cases. Silbergeld DL. **Neurosurgery** 1997 Feb;40(2):389–92

ULTRASTRUCTURE

Projections from auditory cortex to the cochlear nucleus in rats: synapses on granule cell dendrites. Weedman DL, et al. **J Comp Neurol** 1996 Jul 22;371(2):311–24

AUDITORY DISEASES, CENTRAL

DIAGNOSIS

Auditory brain stem evoked potentials in patients with leprosy. Celik O, et al. **Int J Lepr Other Mycobact Dis** 1997 Jun;65(2):166–9

ETIOLOGY

Cogan's syndrome as an extra-articular manifestation of rheumatoid arthritis. Dekker JJ, et al. **Clin Rheumatol** 1996 Jul;15(4):374–7

PHYSIOPATHOLOGY

Injury- and use-related plasticity in the primary sensory cortex of adult mammals: possible relationship to perceptual learning. Irvine DR, et al. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov;23(10–11):939–47 (56 ref.)

Neuro-ophthalmology and neuro-otology. **Curr Opin Neurol** 1996 Feb;9(1):B1–8

Temporal distortion products (kernel slices) evoked by maximum-length-sequences in auditory neuropathy: evidence for a cochlear pre-synaptic origin. Deltenre P, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan; 104(1):10–6

Auditory neuropathy: a report on three cases with early onsets and major neonatal illnesses. Deltenre P, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan;104(1):17–22

THERAPY

Vestibular and auditory disorders. Baloh RW. **Curr Opin Neurol** 1996 Feb;9(1):32–6 (24 ref.)

AUDITORY EVOKED POTENTIALS see **EVOKED POTENTIALS, AUDITORY**

AUDITORY EVOKED RESPONSE see **EVOKED POTENTIALS, AUDITORY**

AUDITORY FATIGUE

PHYSIOLOGY

A comparative study on the effect of pure-tone exposure of the guinea pig cochlea. Hotta S, et al. **Eur Arch Otorhinolaryngol** 1996;253(1–2):45–51

In situ real-time sequential potentiometric determinations of potassium concentrations from three cochlear regions in noise-exposed rats. Ma YL, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):201–4

Combined effects of hand-arm vibration and noise on temporary threshold shifts of hearing in healthy subjects. Zhu S, et al. **Int Arch Occup Environ Health** 1997; 69(6):433–6

AUDITORY LOCALIZATION see **SOUND LOCALIZATION**

AUDITORY NERVE see **ACOUSTIC NERVE**

AUDITORY OSSICLES see **EAR OSSICLES**

AUDITORY PATHWAYS

see related
AUDITORY DISEASES, CENTRAL

Electrically evoked potentials of the auditory pathway. Ishikawa M, et al. **Adv Otorhinolaryngol** 1997;52:43–5

ANATOMY & HISTOLOGY

Connections of the torus semicircularis and oliva superior in the frog, Rana esculenta: a Phaseolus vulgaris leucoagglutinin labeling study. Matesz C, et al. **Acta Biol Hung** 1996;47(1–4):287–301

Aligning maps of visual and auditory space. Sensory maps. Rees A. **Curr Biol** 1996 Aug 1;6(8):955–8 (14 ref.)

Anatomical and physiological investigation of auditory input to the superior colliculus of the echolocating megachiropteran bat Rousettus aegyptiacus. Thiele A, et al. **Exp Brain Res** 1996 Nov;112(2):223–36

Multiple projections from the ventral nucleus of the trapezoid body in the rat. Warr WB, et al. **Hear Res** 1996 Apr; 93(1–2):83–101

Projections from the ventral cochlear nucleus to the dorsal cochlear nucleus in rats. Doucet JR, et al. **J Comp Neurol** 1997 Aug 25;385(2):245–64

Brainstem connections of the macula lagenae in the chicken. Kaiser A, et al. **J Comp Neurol** 1996 Oct 7;374(1):108–17

Anatomy of the ventral nucleus of the lateral lemniscus in rats: a nucleus with a concentric laminar organization. Merchán MA, et al. **J Comp Neurol** 1996 Aug 19; 372(2):245–63

Anatomical basis for audio-vocal integration in echolocating horseshoe bats. Metzner W. **J Comp Neurol** 1996 Apr 29; 368(2):252–69

GABA- and glycine-immunoreactive projections from the superior olivary complex to the cochlear nucleus in guinea pig. Ostapoff EM, et al. **J Comp Neurol** 1997 May 19; 381(4):500–12

CHEMISTRY

Presence of somatostatin sst2 receptors in the developing rat auditory system. Thoss VS, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):269–78

Somatostatin and substance P-like immunoreactivity in the auditory brainstem of the adult rat. Wynne B, et al. **J Chem Neuroanat** 1997 May;12(4):259–66

Distribution of GABAA, GABAB, and glycine receptors in the central auditory system of the big brown bat, Eptesicus fuscus. Fubara BM, et al. **J Comp Neurol** 1996 May 20;369(1):83–92

CYTOLOGY

Participation of periolivary neurons in the auditory brainstem circuitry. A Golgi, tracer and degeneration study. Kiss A, et al. **Acta Biol Hung** 1996;47(1–4):207–20

Cellular mechanisms for preservation of timing in central auditory pathways. Trussell LO. **Curr Opin Neurobiol** 1997 Aug;7(4):487–92 (49 ref.)

The number of primary auditory afferents in the rat. Hall RD, et al. **Hear Res** 1997 Jan;103(1–2):75–84

DRUG EFFECTS

Differential damage to auditory neurons and hair cells by ototoxins and neuroprotection by specific neurotrophins in rat cochlear organotypic cultures. Zheng JL, et al. **Eur J Neurosci** 1996 Sep;8(9):1897–905

Neurotrophic effects of BDNF and CNTF, alone and in combination, on postnatal day 5 rat acoustic ganglion neurons. Hartnick CJ, et al. **J Neurobiol** 1996 Jun; 30(2):246–54

Isoflurane attenuates resonant responses of auditory thalamic neurons. Tennigkeit F, et al. **J Neurophysiol** 1997 Aug; 78(2):591–6

Effects of neurotrophins on early auditory neurones in cell culture. Malgrange B, et al. **Neuroreport** 1996 Mar 22; 7(4):913–7

NT-3 and/or BDNF therapy prevents loss of auditory neurons following loss of hair cells. Staecker H, et al. **Neuroreport** 1996 Mar 22;7(4):889–94

EMBRYOLOGY

Axogenesis in the human fetal auditory system, demonstrated by neurofilament immunohistochemistry. Moore JK, et al. **Anat Embryol (Berl)** 1997 Jan;195(1):15–30

[A quantitative analysis of the development of the auditory centers of the medulla oblongata in the hen] Soldatova IB. **Ontogenez** 1997 Mar–Apr;28(2):88–94 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Protein kinase C in central auditory pathways of the rat. Garcia MM, et al. **J Comp Neurol** 1997 Aug 18;385(1):1–25

GROWTH & DEVELOPMENT

Development of the time coding pathways in the auditory brainstem of the barn owl. Carr CE, et al. **J Comp Neurol** 1996 Sep 30;373(4):467–83

Development of the organ of Corti in horseshoe bats: scanning and transmission electron microscopy. Vater M, et al. **J Comp Neurol** 1997 Jan 27;377(4):520–34

Experimentally induced retinal projections to the ferret auditory thalamus: development of clustered eye-specific patterns in a novel target. Angelucci A, et al. **J Neurosci** 1997 Mar 15;17(6):2040–55

Modification of tonotopic representation in the auditory system during development. Romand R. **Prog Neurobiol** 1997 Jan;51(1):1–17 (185 ref.)

[A quantitative analysis of the development of the auditory centers of the medulla oblongata in the hen] Soldatova IB. **Ontogenez** 1997 Mar–Apr;28(2):88–94 (Eng. Abstr.) **(Rus)**

METABOLISM

The c-Fos transcription factor in the auditory pathway of the juvenile rat: effects of acoustic deprivation and repetitive stimulation. Keilmann A, et al. **Brain Res** 1997 Apr 11;753(2):291–8

Temporary sensory deprivation changes calcium-binding proteins levels in the auditory brainstem. Caicedo A, et al. **J Comp Neurol** 1997 Feb 3;378(1):1–15

Development of adult-type inhibitory glycine receptors in the central auditory system of rats. Friauf E, et al. **J Comp Neurol** 1997 Aug 18;385(1):117–34

Localization of AMPA-selective glutamate receptors in the auditory brainstem of the barn owl. Levin MD, et al. **J Comp Neurol** 1997 Feb 10;378(2):239–53

Glutamatergic connections of the auditory midbrain: selective uptake and axonal transport of D-[3H]aspartate. Saint Marie RL. **J Comp Neurol** 1996 Sep 16;373(2):255–70

The glutamate receptor subunit delta1 is highly expressed in hair cells of the auditory and vestibular systems. Safieddine S, et al. **J Neurosci** 1997 Oct 1;17(19):7523–31

Expression of cholecystokinin messenger RNA in reciprocally-connected auditory thalamus and cortex in the rat. Senatorov VV, et al. **Neuroscience** 1997 Aug; 79(3):915–21

Decreased expression of the c-Fos, but not Jun B, transcription factor in the auditory pathway of the rat after repetitive acoustic stimulation. Keilmann A, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Sep–Oct; 58(5):262–5

PHYSIOLOGY

Implications of neurotrophin supported auditory neuron survival for maintenance of the tonotopic organization of the central auditory pathway. Reser DH, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):239–43

Firing modes and membrane properties in lemniscal auditory thalamus. Tennigkeit F, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):254–7

Neurobehavioral studies of the central auditory system. Masterton RB. **Ann Otol Rhinol Laryngol Suppl** 1997 May; 168:31–4 (41 ref.)

Intracellular in vivo recording of inferior colliculus auditory neurons from awake guinea-pigs. Torterolo P, et al. **Arch Ital Biol** 1995 Dec;134(1):57–64

Reciprocal connections between primary and secondary auditory pathways in the telencephalon of the budgerigar (Melopsittacus undulatus). Farabaugh SM, et al. **Brain Res** 1997 Jan 30;747(1):18–25

Hypoxia-induced ABR change and heat shock protein expression in the pontine auditory pathway of young rabbits. Inagaki M, et al. **Brain Res** 1997 May 16; 757(1):111–8

Changes in the tonotopic map of the dorsal cochlear nucleus in hamsters with hair cell loss and radial nerve bundle degeneration. Meleca RJ, et al. **Brain Res** 1997 Mar 7; 750(1–2):201–13

Early auditory filial learning in degus (Octodon degus): behavioral and autoradiographic studies. Poeggel G, et al. **Brain Res** 1996 Dec 16;743(1–2):162–70

The columnar region of the ventral nucleus of the lateral lemniscus in the big brown bat (Eptesicus fuscus): synaptic arrangements and structural correlates of feedforward inhibitory function. Vater M, et al. **Cell Tissue Res** 1997

Aug;289(2):223-33
Cellular mechanisms for preservation of timing in central auditory pathways. Trussell LO. **Curr Opin Neurobiol** 1997 Aug;7(4):487-92 (49 ref.)
Binaural interaction and the effects of stimulus intensity and repetition rate in human auditory brain-stem. Jiang ZD. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 100(6):505-16
Negative correlation of P50 peak latencies and reaction times in a simple reaction task. Ninomiya H, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jan;100(1):74-7
Significance of the paralemniscal tegmental area for audio-motor control in the moustached bat, Pteronotus p. parnellii: the afferent off efferent connections of the paralemniscal area. Schuller G, et al. **Eur J Neurosci** 1997 Feb;9(2):342-55
Firing of inferior colliculus auditory neurons is phase-locked to the hippocampus theta rhythm during paradoxical sleep and waking. Pedemonte M, et al. **Exp Brain Res** 1996 Nov; 112(1):41-6
An audio-visual convergence area in the human brain. Regan MP, et al. **Exp Brain Res** 1995;106(3):485-7
Anatomical and physiological investigation of auditory input to the superior colliculus of the echolocating megachiropteran bat Rousettus aegyptiacus. Thiele A, et al. **Exp Brain Res** 1996 Nov;112(2):223-36
Effect of olivocochlear bundle section on evoked otoacoustic emissions recorded using maximum length sequences. Hine JE, et al. **Hear Res** 1997 Jun;108(1-2):28-36
Why do cats need a dorsal cochlear nucleus? Nelken I, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):199-220 (74 ref.)
Axonal morphology in fibrodendritic laminae of the dorsal nucleus of the lateral lemniscus: afferent projections from the medial superior olivary nucleus. Henkel CK. **J Comp Neurol** 1997 Mar 31;380(1):136-44
Low-frequency pathway in the barn owl's auditory brainstem. Köppl C, et al. **J Comp Neurol** 1997 Feb 10; 378(2):265-82
Sonic/vocal-acousticolateralis pathways in teleost fishes: a transneuronal biocytin study in mochokid catfish. Ladich F, et al. **J Comp Neurol** 1996 Oct 28;374(4):493-505
Serial and parallel processing in rhesus monkey auditory cortex. Rauschecker JP, et al. **J Comp Neurol** 1997 May 26;382(1):89-103
Auditory pathways of caudal telencephalon and their relation to the song system of adult male zebra finches. Vates GE, et al. **J Comp Neurol** 1996 Mar 18;366(4):613-42
Afferent connections to the dorsal nucleus of the lateral lemniscus of the mustache bat: evidence for two functional subdivisions. Yang L, et al. **J Comp Neurol** 1996 Sep 30; 373(4):575-92
Feature-detecting auditory neurons in the brain of a sound-producing fish. Crawford JD. **J Comp Physiol [A]** 1997 May;180(5):439-50
Directionality of auditory nerve fiber responses to pure tone stimuli in the grassfrog, Rana temporaria. I. Spike rate responses. Jørgensen MB, et al. **J Comp Physiol [A]** 1997 May;180(5):493-502
Directionality of auditory nerve fiber responses to pure tone stimuli in the grassfrog, Rana temporaria. II. Spike timing. Jørgensen MB, et al. **J Comp Physiol [A]** 1997 May; 180(5):503-11
Stimulus-evoked increase of glutamate in the mediorostral neostriatum/hyperstriatum ventrale of domestic chick after auditory filial imprinting: an in vivo microdialysis study. Gruss M, et al. **J Neurochem** 1996 Mar;66(3):1167-73
Responses of neurons in the auditory pathway of the barn owl to partially correlated binaural signals. Albeck Y, et al. **J Neurophysiol** 1995 Oct;74(4):1689-700
Mechanisms of onset responses in octopus cells of the cochlear nucleus: implications of a model. Cai Y, et al. **J Neurophysiol** 1997 Aug;78(2):872-83
Representation of frequency in the primary auditory field of the barn owl forebrain. Cohen YE, et al. **J Neurophysiol** 1996 Dec;76(6):3682-92
Envelope coding in the lateral superior olive. II. Characteristic delays and comparison with responses in the medial superior olive. Joris PX. **J Neurophysiol** 1996 Oct; 76(4):2137-56
Synaptically evoked prolonged depolarizations in the developing auditory system. Kotak VC, et al. **J Neurophysiol** 1995 Oct;74(4):1611-20
Medial olivocochlear efferent system in humans studied with amplitude-modulated tones. Maison S, et al. **J Neurophysiol** 1997 Apr;77(4):1759-68
Mechanisms for signal transformation in lemniscal auditory thalamus. Tennigkeit F, et al. **J Neurophysiol** 1996 Dec; 76(6):3597-608
Differential response properties to amplitude modulated signals in the dorsal nucleus of the lateral lemniscus of the mustache bat and the roles of GABAergic inhibition. Yang L, et al. **J Neurophysiol** 1997 Jan;77(1):324-40
Temporal coding of concurrent acoustic signals in auditory midbrain. Bodnar DA, et al. **J Neurosci** 1997 Oct 1; 17(19):7553-64
Intracellular characterization of song-specific neurons in the zebra finch auditory forebrain. Lewicki MS. **J Neurosci** 1996 Sep 15;16(18):5855-63
Registration of neural maps through value-dependent learning: modeling the alignment of auditory and visual maps in the barn owl's optic tectum. Rucci M, et al. **J Neurosci** 1997 Jan 1;17(1):334-52
Prevention of normally occurring and deafferentation-induced neuronal death in chick brainstem auditory neurons by periodic blockade of AMPA/kainate receptors. Solum D, et al. **J Neurosci** 1997 Jun 15; 17(12):4744-51
Does Hebbian synaptic plasticity explain learning-induced sensory plasticity in adult mammals? Edeline JM. **J Physiol Paris** 1996;90(3-4):271-6 (52 ref.)
Cellular approach to auditory signal transmission. Koyano K, et al. **Jpn J Physiol** 1996 Aug;46(4):289-310 (195 ref.)
Corticofugal modulation of frequency processing in bat auditory system. Zhang Y, et al. **Nature** 1997 Jun 26; 387(6636):900-3
Auditory efferents involved in speech-in-noise intelligibility. Giraud AL, et al. **Neuroreport** 1997 May 6;8(7):1779-83
Difference in selectivity to song note properties between the vocal nuclei of the zebra finch. Maekawa M, et al. **Neurosci Lett** 1996 Nov 1;218(2):123-6
Corticofugal control of central auditory sensitivity in the big brown bat, Eptesicus fuscus. Sun X, et al. **Neurosci Lett** 1996 Jul 12;212(2):131-4
The role of the external nucleus of the inferior colliculus in the construction of the superior collicular auditory space map in the guinea-pig. Thornton SK, et al. **Neurosci Res** 1996 Jul;25(3):239-46
Activity elicited in the auditory pathway of the rat by electrical stimulation of the cochlea. Vischer MW, et al. **ORL J Otorhinolaryngol Relat Spec** 1995 Nov-Dec; 57(6):305-9
Representation of sound localization cues in the auditory thalamus of the barn owl. Proctor L, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10421-5
Axon decussation and midline glia in the developing ferret auditory hindbrain. Brunso-Bechtold JK, et al. **Prog Brain Res** 1996;108:165-81 (67 ref.)
Visual-auditory integration in cat superior colliculus: implications for neuronal control of the orienting response. Peck CK. **Prog Brain Res** 1996;112:167-77

PHYSIOPATHOLOGY

Effects of early deafness on development of brain stem auditory neurons. Parks TN. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:37-43
The question of disproportionate impairments in visual and auditory information processing in multiple sclerosis. Diamond BJ, et al. **J Clin Exp Neuropsychol** 1997 Feb; 19(1):34-42
[Otoacoustic emission and auditory efferent function testing in normal subjects and patients with sensori-neural hearing loss] Liang F, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):763-6 (Eng. Abstr.) **(Chi)**

SURGERY

Effect of olivocochlear bundle section on evoked otoacoustic emissions recorded using maximum length sequences. Hine JE, et al. **Hear Res** 1997 Jun;108(1-2):28-36

ULTRASTRUCTURE

Ultrastructure of synaptic contacts between identified neurons of the auditory pathway in Gryllus bimaculatus DeGeer. Hirtz R, et al. **J Comp Neurol** 1997 Sep 29; 386(3):347-57
Ultrastructural analysis of primary endings in deaf white cats: morphologic alterations in endbulbs of Held. Ryugo DK, et al. **J Comp Neurol** 1997 Aug 25;385(2):230-44
Compound synapses within the GABAergic innervation of the auditory inner hair cells in the adolescent mouse. Sobkowicz HM, et al. **J Comp Neurol** 1997 Jan 20; 377(3):423-42

AUDITORY PERCEPTION

Auditory fractal random signals: experimental data and clinical application. Gstoettner W, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):222-3
Listener and context dependency in the perception of emotional aspects of infant voice. Shimura Y, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):648-56
Unnatural practices, unspeakable actions: a study of delayed auditory feedback in schizophrenia. Goldberg TE, et al. **Am J Psychiatry** 1997 Jun;154(6):858-60
Auditory working memory and Wisconsin Card Sorting Test performance in schizophrenia. Gold JM, et al. **Arch Gen Psychiatry** 1997 Feb;54(2):159-65
Do psychoacoustic skills vary in children? Allen P. **ASHA** 1997 Summer;39(3):44-5
Applying research. Gravel JS. **ASHA** 1997 Summer; 39(3):44-5
Effects of bilateral auditory cortical lesions on gap-detection thresholds in the ferret (Mustela putorius). Kelly JB, et al. **Behav Neurosci** 1996 Jun;110(3):542-50
Neural networks simulating the frequency discrimination of hearing for non-stationary short tone stimuli. Kral A, et al. **Biol Cybern** 1996 Apr;74(4):365-6
A preliminary study of the relationship between long latency response and learning disorder. Arehole S. **Br J Audiol** 1995 Dec;29(6):295-8
Intra- and inter-modal repetition priming of familiar faces and voices. Ellis HD, et al. **Br J Psychol** 1997 Feb;88 (Pt 1):143-56
Spatial and temporal auditory processing deficits following right hemisphere infarction. A psychophysical study. Griffiths TD, et al. **Brain** 1997 May;120 (Pt 5):785-94
Auditory vigilance in aphasic individuals: detecting nonlinguistic stimuli with full or divided attention. Erickson RJ, et al. **Brain Cogn** 1996 Mar;30(2):244-53
A positron emission tomography study of binaurally and dichotically presented stimuli: effects of level of language and directed attention. O'Leary DS, et al. **Brain Lang** 1996 Apr;53(1):20-39
Perceiving the tonal ending of tune excerpts: the roles of pre-existing representation and musical expertise. Hébert S, et al. **Can J Exp Psychol** 1995 Jun;49(2):193-209
Stimulus modality and stimulus-response compatibility in absolute identification. Lacouture Y, et al. **Can J Exp Psychol** 1997 Jun;51(2):165-70
Children's auditory perception of movement of traffic sounds. Pfeffer K, et al. **Child Care Health Dev** 1996 Mar; 22(2):129-37
Do preschool children recognize auditory-visual numerical correspondences? Mix KS, et al. **Child Dev** 1996 Aug; 67(4):1592-608
Intersensory experience and early perceptual development: the role of spatial contiguity in Bobwhite quail chicks' responsiveness to multimodal maternal cues. Lickliter R, et al. **Dev Psychobiol** 1996 Jul;29(5):403-16
Augmented prenatal auditory stimulation alters postnatal perception, arousal, and survival in bobwhite quail chicks. Sleigh MJ, et al. **Dev Psychobiol** 1997 Apr;30(3):201-12
Report of the Eriksholm Workshop on auditory deprivation and acclimatization. Arlinger S, et al. **Ear Hear** 1996 Jun; 17(3 Suppl):87S-98S (320 ref.)
The auditory evoked "off" response: sources and comparison with the "on" and the "sustained" responses. Pantev C, et al. **Ear Hear** 1996 Jun;17(3):255-65
Replacement of a single-channel with a multichannel cochlear implant as an upgrade. Gyo K, et al. **Ear Nose Throat J** 1997 Jan;76(1):26-30
Stuttering amelioration at various auditory feedback delays and speech rates. Kalinowski J, et al. **Eur J Disord Commun** 1996;31(3):259-69
Effect of acoustical, visual and tactile echo on speech fluency of stutterers. Kuniszyk-Jóźkowiak W, et al. **Folia Phoniatr Logop** 1996;48(4):193-200
On lateral inhibition in the auditory system. Kral A, et al. **Gen Physiol Biophys** 1996 Apr;15(2):109-27
Insight into auditory hallucinations and psychosis [letter] Gordon AG. **Int J Geriatr Psychiatry** 1997 Mar;12(3):410-1
A comparison of detection and discrimination of temporal asymmetry in amplitude modulation. Akeroyd MA, et al. **J Acoust Soc Am** 1997 Jan;101(1):430-9
Masking by modulated and unmodulated noise: effects of bandwidth, modulation rate, signal frequency, and masker level. Bacon SP, et al. **J Acoust Soc Am** 1997 Mar; 101(3):1600-10
On the use of the normalized correlation as an index of interaural envelope correlation. Bernstein LR, et al. **J Acoust Soc Am** 1996 Sep;100(3):1754-63
The effects of randomizing values of interaural disparities on binaural detection and on discrimination of interaural correlation. Bernstein LR, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1113-20
Stimulus-driven, time-varying weights for comodulation masking release. Buus S, et al. **J Acoust Soc Am** 1996 Apr; 99(4 Pt 1):2288-97
Masking produced by broadband noise presented in virtual auditory space. Carlile S, et al. **J Acoust Soc Am** 1996 Dec; 100(6):3761-8
Characterizing cochlear mechano-electric transduction using a nonlinear systems identification procedure. Chertoff ME, et al. **J Acoust Soc Am** 1996 Dec;100(6):3741-53
Identification of multidimensional complex sounds having parallel dimension structure. Christensen LA, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2307-15
Decision rules of listeners in spectral-shape discrimination with or without signal-frequency uncertainty. Dai H, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2298-306
Masking of a brief probe by sinusoidal frequency modulation. Edwards BW, et al. **J Acoust Soc Am** 1997 Feb; 101(2):1010-8
Onset dominance in lateralization. Freyman RL, et al. **J Acoust Soc Am** 1997 Mar;101(3):1649-59
Dependence of frequency modulation detection on frequency modulation coherence across carriers: effects of modulation rate, harmonicity, and roving of the carrier frequencies. Furukawa S, et al. **J Acoust Soc Am** 1997 Mar; 101(3):1632-43
Across-channel processes in frequency modulation detection. Furukawa S, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2299-311
Signal processing techniques for acoustic measurement of sperm whale body lengths. Goold JC. **J Acoust Soc Am** 1996 Nov;100(5):3431-41
Multiband detection of energy fluctuations. Grose JH, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1088-96
Profile analysis with an asynchronous target: evidence for auditory grouping. Hill NI, et al. **J Acoust Soc Am** 1997 Jul;102(1):477-81
Temporary threshold shift in a harbor seal (Phoca vitulina) [letter] Kastak D, et al. **J Acoust Soc Am** 1996 Sep; 100(3):1905-8
Discrimination of temporal asymmetry in cochlear

implantees. Lorenzi C, et al. **J Acoust Soc Am** 1997 Jul; 102(1):482–5

Psychometric functions for the discrimination of spectral variance. Lutfi RA, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2258–65

Detection and discrimination of gliding tones as a function of frequency transition and center frequency. Madden JP, et al. **J Acoust Soc Am** 1996 Dec;100(6):3754–60

The role of auditory beats induced by frequency modulation and polyperiodicity in the perception of spectrally embedded complex target sounds. Marin CM, et al. **J Acoust Soc Am** 1996 Sep;100(3):1736–53

Interaction of noise-induced permanent threshold shift and age-related threshold shift. Mills JH, et al. **J Acoust Soc Am** 1997 Mar;101(3):1681–6

Detection of frequency modulation at low modulation rates: evidence for a mechanism based on phase locking. Moore BC, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2320–31

Modulation discrimination interference and comodulation masking release as a function of the number and spectral placement of narrow-band noise modulators. Moore BC, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2373–81

An investigation of penetration depth control using parallel opposed ultrasound arrays and a scanning reflector. Moros EG, et al. **J Acoust Soc Am** 1997 Mar;101(3):1734–41

Sex differences in simultaneous masking with random-frequency maskers [letter] Neff DL, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2547–50

Intensity discrimination in the presence of random-frequency, multicomponent maskers and broadband noise. Neff DL, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2289–98

Release from upward spread of masking in regions of high-frequency hearing loss. Nelson DA, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2266–77

The role of individualized headphone calibration for the generation of high fidelity virtual auditory space. Pralong D. **J Acoust Soc Am** 1996 Dec;100(6):3785–93

Patterns of note onset asynchronies in expressive piano performance. Repp BH. **J Acoust Soc Am** 1996 Dec; 100(6):3917–32

Frequency correlation functions for the detection of a tone added to modulated noise maskers. Richards VM, et al. **J Acoust Soc Am** 1996 Mar;99(3):1645–52

Effects of modulator phase for comodulation masking release and modulation detection interference. Richards VM, et al. **J Acoust Soc Am** 1997 Jul;102(1):468–76

Sensory consonance and the perceptual similarity of complex-tone harmonic intervals: tests of adult and infant listeners. Schellenberg EG, et al. **J Acoust Soc Am** 1996 Nov;100(5):3321–8

Forward-masked intensity discrimination: duration effects and spectral effects. Schlauch RS, et al. **J Acoust Soc Am** 1997 Jul;102(1):461–7

Detection of auditory "events" based on amplitude and frequency modulation. Sek A, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2332–40

Modulation detection interference with two-component masker modulators. Sheft S, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1106–12

Spectral weights in level discrimination by preschool children: analytic listening conditions. Stellmack MA, et al. **J Acoust Soc Am** 1997 May;101(5 Pt 1):2811–21

A new approach to comparing binaural masking level differences at low and high frequencies. van de Par S, et al. **J Acoust Soc Am** 1997 Mar;101(3):1671–80

A new way to account for binaural detection as a function of interaural noise correlation. van der Heijden M, et al. **J Acoust Soc Am** 1997 Feb;101(2):1019–22

Annoyance caused by sounds of wheeled and tracked vehicles. Versfeld NJ, et al. **J Acoust Soc Am** 1997 May; 101(5 Pt 1):2677–85

Attention cueing aids auditory intensity resolution. Ward LM, et al. **J Acoust Soc Am** 1996 Sep;100(3):1722–7

Monaural sound localization revisited. Wightman FL, et al. **J Acoust Soc Am** 1997 Feb;101(2):1050–63

Spectral weights in level discrimination by preschool children: synthetic listening conditions. Willihnganz MS, et al. **J Acoust Soc Am** 1997 May;101(5 Pt 1):2803–10

Detectability of simultaneously masked signals as a function of masker bandwidth and configuration for different signal delays. Wright BA. **J Acoust Soc Am** 1997 Jan;101(1):420–9

The relationship between localization and the Franssen effect. Yost WA, et al. **J Acoust Soc Am** 1997 May;101(5 Pt 1):2994–7

Brief tone discrimination by children with histories of early otitis media. Cranford JL, et al. **J Am Acad Audiol** 1997 Apr;8(2):137–41

Detection and recognition of octave-band sound effects. Myers LL, et al. **J Am Acad Audiol** 1996 Oct;7(5):346–57

Interactions of age, ear, and stimulus complexity on dichotic digit recognition. Wilson RH, et al. **J Am Acad Audiol** 1996 Oct;7(5):358–64

When is a significant change not significant? [letter; comment] Howlin P. **J Autism Dev Disord** 1997 Jun;27(3):347–8. Comment on: J Autism Dev Disord 1995 Feb;25(1):61–70. Comment on: J Autism Dev Disord 1996 Jun;26(3):361–74.

Perceptual salience of acoustic features of Japanese monkey coo calls. Le Prell CG, et al. **J Comp Psychol** 1997 Sep; 111(3):261–74

Type of prenatal sensory experience affects prenatal auditory learning in bobwhite quail (Colinus virginianus). Sleigh MJ, et al. **J Comp Psychol** 1996 Sep;110(3):233–42

Differences in the effect of Pavlovian contingencies upon behavioral momentum using auditory versus visual stimuli. Mauro BC, et al. **J Exp Anal Behav** 1996 Mar;65(2):389–99

Capacity limitations of a classic M-power measure: a modified dual-task approach. Foley EJ, et al. **J Exp Child Psychol** 1997 Aug;66(2):129–43

Perceiving musical stability: the effect of tonal structure, rhythm, and musical expertise. Bigand E. **J Exp Psychol Hum Percept Perform** 1997 Jun;23(3):808–22

Constraints common to apparent motion in visual, tactile, and auditory space. Lakatos S, et al. **J Exp Psychol Hum Percept Perform** 1997 Aug; 23(4):1050–60

Perception of auditory-visual temporal synchrony in human infants. Lewkowicz DJ. **J Exp Psychol Hum Percept Perform** 1996 Oct; 22(5):1094–106

What is inhibited in inhibition of return? Reuter-Lorenz PA, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr; 22(2):367–78

Effect of modality in earwitness identification: memory for verbal and nonverbal auditory stimuli presented in two contexts. Huss MT, et al. **J Gen Psychol** 1996 Oct; 123(4):277–87

An equivalent input noise level criterion for hearing aids. Macrae JH, et al. **J Rehabil Res Dev** 1996 Oct;33(4):355–62

Processing of auditory stimuli during tonic and phasic periods of REM sleep as revealed by event-related brain potentials. Sallinen M, et al. **J Sleep Res** 1996 Dec;5(4):220–8

Effect of step size on clinical and adaptive 2IFC procedures in quiet and in a noise background. Marshall L, et al. **J Speech Hear Res** 1996 Aug;39(4):687–96

Dynamic temporal processing of nonspeech acoustic information by children with specific language impairment. Visto JC, et al. **J Speech Hear Res** 1996 Jun;39(3):510–7

Does articulatory suppression remove the irrelevant speech effect? Hanley JR. **Memory** 1997 May;5(3):423–31

Restricted attentional capacity within but not between sensory modalities [see comments] Duncan J, et al. **Nature** 1997 Jun 19;387(6635):808–10. Comment in: Nature 1997 Jun 19;387(6635):756–7.

Impaired auditory recognition of fear and anger following bilateral amygdala lesions. Scott SK, et al. **Nature** 1997 Jan 16;385(6613):254–7

Experimental psychology. In a blink of the mind's eye [news; comment] Wolfe JM. **Nature** 1997 Jun 19;387(6635):756–7 . Comment on: Nature 1997 Jun 19;387(6635):805–7. Comment on: Nature 1997 Jun 19;387(6635):808–10.

Sound emission from cochlear filters and foveae--does the auditory sense organ make sense? Kössl M. **Naturwissenschaften** 1997 Jan;84(1):9–16 (65 ref.)

Effects of stimulus source and intensity on covert orientation to auditory stimuli. Buchtel HA, et al. **Neuropsychologia** 1996 Oct;34(10):979–85

Lateralization of memory for music: evidence from the intracarotid sodium amobarbital procedure. Plenger PM, et al. **Neuropsychologia** 1996 Oct;34(10):1015–8

Electrophysiological correlates of categorical phoneme perception in adults. Dehaene-Lambertz G. **Neuroreport** 1997 Mar 3;8(4):919–24

Viewing music videotapes during exercise and ratings of perceived exertion. Abadie BR, et al. **Percept Mot Skills** 1996 Aug;83(1):226

Teachers' perception of auditory problems and the SCAN. Carlin MF, et al. **Percept Mot Skills** 1997 Aug;85(1):245–6

Structure of music may influence cognition. Cash AH, et al. **Percept Mot Skills** 1997 Feb;84(1):66

Speech-Sounds Perception Test: analysis of error types in normal and diffusely brain-damaged patients. Charter RA, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1507–10

Field dependence-independence and the discrimination of musical parts. Ellis MC. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):947–53

Magnitude estimation scaling of annoyance in response to rock music: effects of sex and listeners' preference. Fucci D, et al. **Percept Mot Skills** 1997 Apr;84(2):663–70

Dichotic listening to temporal tonal stimuli by good and poor readers. Harel S, et al. **Percept Mot Skills** 1997 Apr; 84(2):467–73

Effects of excitative and sedative music on subjective and physiological relaxation. Iwanaga M, et al. **Percept Mot Skills** 1997 Aug;85(1):287–96

Psychology of computer use: XLVI. Age-related differences in the mapping of auditory icons to visual icons in computer interfaces for children. Jacko JA, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1223–33

Interdependence of vision and audition among inexperienced and experienced tennis players. Mead TP, et al. **Percept Mot Skills** 1997 Aug;85(1):163–6

Background instrumental music and serial recall. Nittono H. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1307–13

Enhanced spatial performance following 10 minutes exposure to music: a replication. Rideout BE, et al. **Percept Mot Skills** 1997 Aug;85(1):112–4

Effects of melody and lyrics on mood and memory. Sousou SD. **Percept Mot Skills** 1997 Aug;85(1):31–40

Listening to Mozart does not enhance backwards digit span performance. Steele KM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1179–84

Effect of speaking into a passive resonator on stuttering frequency. Stuart A, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1343–6

A behavioral measure of selective listening. Takahashi M. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1483–7

Role of cortical N-methyl-D-aspartate receptors in auditory sensory memory and mismatch negativity generation: implications for schizophrenia. Javitt DC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11962–7

Auditory temporal coding in dyslexia. McAnally KI, et al. **Proc R Soc Lond B Biol Sci** 1996 Aug 22;263(1373):961–5

Replication of a P50 auditory gating deficit in Australian patients with schizophrenia. Ward PB, et al. **Psychiatry Res** 1996 Sep 27;64(2):121–35

Emergence of a powerful connection between sensory and cognitive functions across the adult life span: a new window to the study of cognitive aging? Baltes PB, et al. **Psychol Aging** 1997 Mar;12(1):12–21

Effects of aging and musical experience on the representation of tonal hierarchies. Halpern AR, et al. **Psychol Aging** 1996 Jun;11(2):235–46

Transfer across form and modality in implicit and explicit memory. Berry DC, et al. **Q J Exp Psychol A** 1997 Feb; 50(1):1–24

Disruption of short-term recognition memory for tones: streaming or interference? Jones DM, et al. **Q J Exp Psychol A** 1997 May;50(2):337–57

Early recurrent otitis media, language and central auditory processing in children. Campbell N, et al. **S Afr J Commun Disord** 1995;42:73–84

Frequency specificity of ABRs [letter; comment] Kevanishvili Z, et al. **Scand Audiol** 1995;24(4):265–7. Comment on: Scand Audiol 1994;23(4):211–23.

Aspects of short-term auditory memory as revealed by a recognition task on multi-tone sequences. Prosser S. **Scand Audiol** 1995;24(4):247–53

[Study of primary organotypic culture of the chicken auditory sensory epithelia] Sun J, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(5):282–4 (Eng. Abstr.) **(Chi)**

[Unilateral auditory hallucinations due to left temporal lobe ischemia: a case report] Anegawa T, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1137–41 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Pentoxifylline maintains cochlear microcirculation and attenuates temporary threshold shifts following acoustic overstimulation. Latoni J, et al. **Acta Otolaryngol (Stockh)** 1996 May;116(3):388–94

Effect of isosorbide on distortion-product otoacoustic emissions and endocochlear DC potential in experimentally induced hydropic ears. Okubo H, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:59–62

Effects of sex and MK-801 on auditory-processing deficits associated with developmental microgyric lesions in rats. Fitch RH, et al. **Behav Neurosci** 1997 Apr;111(2):404–12

Midlatency auditory evoked potentials as indicators of perceptual processing during general anaesthesia. de Beer NA, et al. **Br J Anaesth** 1996 Nov;77(5):617–24

Naloxone blockade of (–)pentazocine-induced changes in auditory function. Sahley TL, et al. **Ear Hear** 1996 Aug; 17(4):341–53

Cocaine's effects on speech sound identification and reaction times in baboons. Hienz RD, et al. **Psychopharmacology (Berl)** 1996 May;125(2):120–8

Serotonin-1A antagonists attenuate the effects of nicotine withdrawal on the auditory startle response. Rasmussen K, et al. **Synapse** 1997 Oct;27(2):145–52

PHYSIOLOGY

Auditory quality cues are more effective than auditory location cues in a R--no R (go--no go) differentiation: the extension of the rule to primitive mammals (American opossum, Didelphis virginiana). Stasiak M, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(4):949–53

The influence of the efferent auditory system on otoacoustic emissions in noise induced tinnitus: clinical relevance. Attias J, et al. **Acta Otolaryngol (Stockh)** 1996 Jul; 116(4):534–9

Evaluation of TEOAE and DPOAE measurements for the assessment of auditory thresholds in sensorineural hearing loss. Suckfüll M, et al. **Acta Otolaryngol (Stockh)** 1996 Jul; 116(4):528–33

Functional MR of the primary auditory cortex: an analysis of pure tone activation and tone discrimination [see comments] Strainer JC, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):601–10. Comment in: AJNR Am J Neuroradiol 1997 Apr;18(4):621–3.

Functional asymmetries in the auditory system. Jerger J. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:23–30

Neurobehavioral studies of the central auditory system. Masterton RB. **Ann Otol Rhinol Laryngol Suppl** 1997 May; 168:31–4 (41 ref.)

The septohippocampal system is involved in prepulse inhibition of the acoustic startle response in rats. Koch M. **Behav Neurosci** 1996 Jun;110(3):468–77

Olfactory bulbectomy enhances sensitization of the acoustic startle reflex produced by acute or repeated stress. McNish KA, et al. **Behav Neurosci** 1997 Feb;111(1):80–91

A comparison of contextual and generalized auditory-cue fear conditioning: evidence for similar memory processes. Rudy JW, et al. **Behav Neurosci** 1996 Dec;110(6):1299–308

Temporal patterning in an auditory illusion: the verbal transformation effect. Ditzinger T, et al. **Biol Cybern** 1997 Jul;77(1):23–30

A synergetic model for the verbal transformation effect. Ditzinger T, et al. **Biol Cybern** 1997 Jul;77(1):31–40

Event-related potentials and performance of attention-deficit hyperactivity disorder: children and normal controls in auditory and visual selective attention tasks. Jonkman LM, et al. **Biol Psychiatry** 1997 Mar 1;41(5):595–611

What's in a pause: event-related potential analysis of temporal disruptions in written and spoken sentences. Besson M, et al. **Biol Psychol** 1997 Jun 20;46(1):3–23

The structural components of music perception. A functional anatomical study. Platel H, et al. **Brain** 1997 Feb;120 (Pt 2):229–43

Oscillatory neuromagnetic activity induced by language and non-language stimuli. Eulitz C, et al.
Brain Res Cogn Brain Res 1996 Sep;4(2):121–32

Preattentive periodicity detection in auditory patterns as governed by time and intensity information. Schröger E, et al. **Brain Res Cogn Brain Res** 1996 Sep;4(2):145–8

Recurrent seizures in immature rats: effect on auditory and visual discrimination. Neill JC, et al.
Brain Res Dev Brain Res 1996 Sep 2;95(2):283–92

Involvement of the caudal striatum in auditory processing: c-fos response to cortical application of picrotoxin and to auditory stimulation. Arnauld E, et al.
Brain Res Mol Brain Res 1996 Sep 5;41(1–2):27–35

Cerebral microgyria, thalamic cell size and auditory temporal processing in male and female rats. Herman AE, et al.
Cereb Cortex 1997 Jul–Aug;7(5):453–64

Evaluation of auditory discrimination in children with ADD and without ADD. Geffner D, et al.
Child Psychiatry Hum Dev 1996 Spring;26(3):169–79

Shifts in children's ear asymmetry during verbal and nonverbal auditory-visual association tasks: a "virtual stimulus" effect. Hiscock M, et al. **Cortex** 1996 Jun; 32(2):367–74

The heart rate deceleratory response in low-risk human fetuses: effect of stimulus intensity on response topography. Groome LJ, et al. **Dev Psychobiol** 1997 Mar;30(2):103–13

Auditory development reflected by middle latency response. McGee T, et al. **Ear Hear** 1996 Oct;17(5):419–29 (80 ref.)

The development of auditory behavior (or what the anatomists and physiologists have to explain). Werner LA. **Ear Hear** 1996 Oct;17(5):438–46

Speech-evoked brainstem frequency-following responses during verbal transformations due to word repetition. Galbraith GC, et al.
Electroencephalogr Clin Neurophysiol 1997 Jan;102(1):46–53

Event-related potentials in the dorsal hippocampus of rats during an auditory discrimination paradigm. Shinba T, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 100(6):563–8

Differential localization of brain systems subserving memory for names and faces in normal subjects with event-related potentials. Sommer W, et al.
Electroencephalogr Clin Neurophysiol 1997 Mar; 102(3):192–9

Quantitative EEG analysis during motor function and music perception in Tourette's syndrome. Günther W, et al.
Eur Arch Psychiatry Clin Neurosci 1996;246(4):197–202

Effects of noradrenaline on frequency tuning of rat auditory cortex neurons. Manunta Y, et al. **Eur J Neurosci** 1997 Apr;9(4):833–47

Aging effects on auditory processing: an event-related potential study. Pekkonen E, et al. **Exp Aging Res** 1996 Apr–Jun;22(2):171–84

Neuromuscular-skeletal constraints upon the dynamics of perception-action coupling. Carson RG. **Exp Brain Res** 1996 Jun;110(1):99–110

Auditory evoked fields to illusory sound source movements. Mäkelä JP, et al. **Exp Brain Res** 1996 Aug;110(3):446–54

Sharp low- and high-frequency limits on musical chord recognition. Biasutti M. **Hear Res** 1997 Mar;105(1–2):77–84

Excitatory and inhibitory response adaptation in the superior olive complex affects binaural acoustic processing. Finlayson PG, et al. **Hear Res** 1997 Jan;103(1–2):1–18

Neuronal correlates of perceptual amplitude-modulation detection. Lorenzi C, et al. **Hear Res** 1995 Oct; 90(1–2):219–27

Frequency-temporal resolution of hearing measured by rippled noise. Supin AYa, et al. **Hear Res** 1997 Jun; 108(1–2):17–27

Tactile-audio diagram for blind persons. Minagawa H, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):431–7

Evolution of transient evoked otoacoustic emissions in preterm newborns: a preliminary study [see comments] Eshraghi A, et al. **Int J Pediatr Otorhinolaryngol** 1996 Oct; 37(2):121–7. Comment in: Int J Pediatr Otorhinolaryngol 1997 May 4;40(1):73–5.

Acoustic effects of the ATOC signal (75 Hz, 195 dB) on dolphins and whales. Au WW, et al. **J Acoust Soc Am** 1997 May;101(5 Pt 1):2973–7

Computer simulation of auditory stream segregation in alternating-tone sequences. Beauvois MW, et al.
J Acoust Soc Am 1996 Apr;99(4 Pt 1):2270–80

Temporal asymmetry in the auditory system. Irino T, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2316–31

Fractal noise strength in auditory-nerve fiber recordings. Kelly OE, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2210–20

Involvement of the olivocochlear bundle in the detection of tones in noise. Micheyl C, et al. **J Acoust Soc Am** 1996 Mar;99(3):1604–10

The combination of echolocation emission and ear reception enhances directional spectral cues of the big brown bat, Eptesicus fuscus. Wotton JM, et al. **J Acoust Soc Am** 1997 Mar;101(3):1723–33

Adult sensory capacities as a function of birth risk factors. Harland RE, et al. **J Clin Exp Neuropsychol** 1996 Jun; 18(3):394–405

Sharply tuned cochlear nerve ensemble periodicity responses to sonic and ultrasonic frequencies. Henry KR.
J Comp Physiol [A] 1997 Sep;181(3):239–46

Audiogram of the fox squirrel (Sciurus niger). Jackson LL, et al. **J Comp Psychol** 1997 Mar;111(1):100–4

The representation of tonality and meter in children aged 7 and 9. Wilson SJ, et al. **J Exp Child Psychol** 1997 Jan; 64(1):42–66

Seeing and hearing rotated faces: influences of facial orientation on visual and audiovisual speech recognition. Jordan TR, et al. **J Exp Psychol Hum Percept Perform** 1997 Apr;23(2):388–403

Improvement of hemispatial neglect with cold-water calorics: an electrophysiological test of the arousal hypothesis of neglect. Storrie-Baker HJ, et al.
J Int Neuropsychol Soc 1997 Jul;3(4):394–402

The effect of the presentation of visual and auditory stimuli on the breathing patterns of two girls with Rett syndrome. Woodyatt GC, et al. **J Intellect Disabil Res** 1996 Jun;40 (Pt 3):252–9

Intracellular response properties of units in the dorsal cochlear nucleus of unanesthetized decerebrate gerbil. Ding J, et al. **J Neurophysiol** 1997 May;77(5):2549–72

Neural tuning to sound duration in the inferior colliculus of the big brown bat, Eptesicus fuscus. Ehrlich D, et al. **J Neurophysiol** 1997 May;77(5):2360–72

Auditory cortical onset responses revisited. II. Response strength. Heil P. **J Neurophysiol** 1997 May;77(5):2642–60

Psychophysical and physiological evidence for a precedence effect in the median sagittal plane. Litovsky RY, et al.
J Neurophysiol 1997 Apr;77(4):2223–6

Mismatch negativity: an index of subclinical neurological differences in HIV patients during rapid perceptual processing. Linnville SE, et al.
J Neuropsychiatry Clin Neurosci 1997 Winter;9(1):45–54

An anatomical basis for visual calibration of the auditory space map in the barn owl's midbrain. Feldman DE, et al. **J Neurosci** 1997 Sep 1;17(17):6820–37

Effects of interaural intensity difference on the processing of interaural time difference in the owl's nucleus laminaris. Viete S, et al. **J Neurosci** 1997 Mar 1;17(5):1815–24

Eye-head coordination toward auditory and visual targets in humans. Zambarbieri D, et al. **J Vestib Res** 1997 Mar–Jun;7(2–3):251–63

Auditory dynamic range derived from the mean rate-intensity function in the cat. Nizami L, et al.
Math Biosci 1997 Apr 1;141(1):1–28

Evidence for a sound movement area in the human cerebral cortex. Griffiths TD, et al. **Nature** 1996 Oct 3; 383(6599):425–7

Disruption of auditory spatial working memory by inactivation of the forebrain archistriatum in barn owls. Knudsen EI, et al. **Nature** 1996 Oct 3;383(6599):428–31

Laminar fine structure of frequency organization in auditory midbrain. Schreiner CE, et al. **Nature** 1997 Jul 24; 388(6640):383–6

Sound alters visual motion perception [letter] Sekuler R, et al. **Nature** 1997 Jan 23;385(6614):308

Auditory information processing in schizophrenia. Van Sweden B, et al. **Neuropsychobiology** 1997;35(4):191–6

Non-verbal auditory recognition in normal subjects and brain-damaged patients: evidence for parallel processing. Clarke S, et al. **Neuropsychologia** 1996 Jun;34(6):587–603

Phasic arousal in response to auditory warnings after traumatic brain injury. Whyte J, et al. **Neuropsychologia** 1997 Mar;35(3):313–24

Auditory memory cells in dorsolateral prefrontal cortex. Bodner M, et al. **Neuroreport** 1996 Aug 12;7(12):1905–8

The first neurophysiological evidence for cognitive brain dysfunctions in children with CATCH. Cheour M, et al. **Neuroreport** 1997 May 6;8(7):1785–7

Cortical processing mechanism for vocalization with auditory verbal feedback. Hirano S, et al. **Neuroreport** 1997 Jul 7; 8(9–10):2379–82

Left-hemisphere specialization for the processing of acoustic transients. Johnsrude IS, et al. **Neuroreport** 1997 May 6; 8(7):1761–5

Functional asymmetry of medial olivocochlear system in humans. Towards a peripheral auditory lateralization. Khalfa S, et al. **Neuroreport** 1996 Apr 10;7(5):993–6

Human cortico-hippocampal activity related to auditory discrimination revealed by neuromagnetic field. Kikuchi Y, et al. **Neuroreport** 1997 May 6;8(7):1657–61

The role of the temporal coding system in the auditory cortex on speech recognition. Kojima H, et al. **Neuroreport** 1997 Jul 7;8(9–10):2395–8

Temporal patterns in human epileptic activity are modulated by perceptual discriminations. Le Van Quyen M, et al. **Neuroreport** 1997 May 6;8(7):1703–10

Auditory-visual shift in localization depending on gaze direction. Lewald J, et al. **Neuroreport** 1996 Aug 12; 7(12):1929–32

Alzheimer's disease affects parallel processing between the auditory cortices. Pekkonen E, et al. **Neuroreport** 1996 May 31;7(8):1365–8

'Prepulse inhibition' facilitates a liberal response bias in an auditory discrimination task. Schall U, et al.
Neuroreport 1996 Jan 31;7(2):652–6

Temporal window of integration revealed by MMN to sound omission. Yabe H, et al. **Neuroreport** 1997 May 27; 8(8):1971–4

Deficit of temporal auditory processing in dyslexic adults. Hari R, et al. **Neurosci Lett** 1996 Feb 23;205(2):138–40

Processing of vowels in supratemporal auditory cortex. Poeppel D, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):145–8

A left temporal lobe impairment of auditory information processing in schizophrenia: an event-related potential study. Schall U, et al. **Neurosci Lett** 1997 Jun 20;229(1):25–8

The musical brain: brain waves reveal the neurophysiological basis of musicality in human subjects. Tervaniemi M, et al. **Neurosci Lett** 1997 Apr 18;226(1):1–4

Severing the intercollicular commissure prevents bilateral disruption of the map of auditory space in the superior colliculi following monocular enucleation. Withington DJ, et al. **Neurosci Lett** 1996 Dec 6;220(1):29–32

Pass/fail rates for repeated click-evoked otoacoustic emission and auditory brain stem response screenings in newborns. McNellis EL, et al. **Otolaryngol Head Neck Surg** 1997 Apr; 116(4):431–7

Changes in alpha band EEG activity in the frontal area after stimulation with music of different affective content. Iwaki T, et al. **Percept Mot Skills** 1997 Apr;84(2):515–26

Auditory brainwave stimulation in treating alcoholic depression. Waldkoetter RO, et al. **Percept Mot Skills** 1997 Feb;84(1):226

Auditory stimulus detection is not suppressed during saccadic eye movements. Harris LR, et al. **Perception** 1996; 25(8):999–1004

Induction of a physiological memory in the cerebral cortex by stimulation of the nucleus basalis [see comments] Bakin JS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):11219–24. Comment in: Proc Natl Acad Sci U S A 1996 Oct 1;93(20):10546–7.

Linkage of a neurophysiological deficit in schizophrenia to a chromosome 15 locus. Freedman R, et al.
Proc Natl Acad Sci U S A 1997 Jan 21;94(2):587–92

Learning and receptive field plasticity [comment] Gilbert CD. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10546–7 . Comment on: Proc Natl Acad Sci U S A 1996 Oct 1;93(20):16219–24.

Brain activation during an auditory 'oddball task' in schizophrenia measured by single photon emission tomography. Shajahan PM, et al. **Psychol Med** 1997 May; 27(3):587–94

Auditory pseudohallucinations induced by a combination of hearing impairment and environmental stress. Balan S, et al. **Psychopathology** 1996;29(3):198–200

Perceptual grouping due to pitch and amplitude in hallucinating schizophrenics. Nielzén S, et al.
Psychopathology 1997;30(3):140–8

Sensitivity to mechanical stimuli and the role of general sensory and perceptual processes in heartbeat detection. Knapp K, et al. **Psychophysiology** 1997 Jul;34(4):467–73

[Auditory perception in patients with multiple and severe handicaps: study of mismatch negativity to speech sounds] Inagaki M, et al. **No To Hattatsu** 1996 Mar;28(2):156–62 (Eng. Abstr.) **(Jpn)**

[Psychophysiological features of the effect of lateralization during perception of a moving sound source] Al'tman IaA, et al. **Fiziol Cheloveka** 1997 Mar–Apr;23(2):80–8 **(Rus)**

[Lateralization of word perception as a function of linguistic factors] Chernigovskaia TV, et al. **Fiziol Cheloveka** 1996 Jul–Aug;22(4):12–7 **(Rus)**

[A cross-modal study of the perception of stimulus intensity in peripheral neurosensory hearing loss] Petrov SM.
Fiziol Cheloveka 1997 May–Jun;23(3):125–6 **(Rus)**

[Critical bands and the analysis of biologically important sound parameters in the auditory system of different representatives of the animal world] Vartanian IA, et al. **Zh Evol Biokhim Fiziol** 1996 Sep–Oct;32(5):642–50 (48 ref.) **(Rus)**

[The spherical characteristics of acoustic space] Korchmariuk IaI. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul–Aug; 46(4):712–8 (Eng. Abstr.) **(Rus)**

[The characteristics of the latent periods of movements in cats during the differentiation of tonal and amplitude-modulated signals with changes in the modulation from high frequencies to low] Vasil'ev AG. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar–Apr; 46(2):282–90 (Eng. Abstr.) **(Rus)**

AUDITORY PERCEPTUAL DISORDERS

COMPLICATIONS

Auditory comprehension problems in aphasia from the perspective of aphasic persons and their families and friends. Le Dorze G, et al. **Disabil Rehabil** 1996 Nov; 18(11):550–8

Language impairment. Listening out for subtle deficits [news; comment] Bishop DV. **Nature** 1997 May 8; 387(6629):129–30. Comment on: Nature 1997 May 8;387(6629):176–8.

Deficits in auditory temporal and spectral resolution in language-impaired children [see comments] Wright BA, et al. **Nature** 1997 May 8;387(6629):176–8. Comment in: Nature 1997 May 8;387(6629):129–30.

DIAGNOSIS

Reduced top-down influence in auditory perceptual organization in schizophrenia. Silverstein SM, et al. **J Abnorm Psychol** 1996 Nov;105(4):663–7

Teachers' perception of auditory problems and the SCAN. Carlin MF, et al. **Percept Mot Skills** 1997 Aug;85(1):245–6

PHYSIOPATHOLOGY

Where do voices come from? Adler M. **J R Soc Med** 1997 Jan;90(1):28–32 (39 ref.)

Impaired auditory recognition of fear and anger following bilateral amygdala lesions. Scott SK, et al. **Nature** 1997 Jan 16;385(6613):254–7

Auditory inattention in right-hemisphere-damaged patients with and without visual neglect. Soroker N, et al. **Neuropsychologia** 1997 Mar;35(3):249–56

[Early auditory evoked potentials in children with language development disorders] von Suchodoletz W, et al. **Klin Padiatr** 1996 Sep-Oct;208(5):290–3 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Where do voices come from? Adler M. **J R Soc Med** 1997 Jan;90(1):28–32 (39 ref.)

Selective impairment of auditory processing in chronic fatigue syndrome: a comparison with multiple sclerosis and healthy controls. Johnson SK, et al. **Percept Mot Skills** 1996 Aug;83(1):51–62

Musical hallucinations and musical imagery: prevalence and phenomenology in schizophrenic inpatients. Saba PR, et al. **Psychopathology** 1997;30(4):185–90

THERAPY

The long-term effects of auditory training on children with autism [see comments] Bettison S. **J Autism Dev Disord** 1996 Jun;26(3):361–74. Comment in: J Autism Dev Disord 1997 Jun;27(3):347–8.

AUDITORY PROSTHESIS see **COCHLEAR IMPLANT**

AUDITORY STIMULATION see **ACOUSTIC STIMULATION**

AUDITORY THRESHOLD

see related

AUDIOMETRY

Remote masking in noise-exposed chinchillas. Quaranta A, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):226–8

Auditory behavioral thresholds for Japanese macaques using insert earphones. Smith DW, et al. **Am J Primatol** 1997; 41(4):323–9

Improving audiometric thresholds by changing the headphone position at the ear. Flottorp G. **Audiology** 1995 Sep-Oct;34(5):221–31

Auditory threshold shift following meatal pressure change in ossicular disorders. Funai H, et al. **Auris Nasus Larynx** 1996;23:33–42

Tonic, phasic, and transient EEG correlates of auditory awareness in drowsiness. Makeig S, et al. **Brain Res Cogn Brain Res** 1996 Jul;4(1):15–25

Assessment of the discomfort threshold of command board operators in automated productions with respect to its application in professional selection. Tzaneva L. **Cent Eur J Public Health** 1996 Sep;4(3):173–5

The hearing threshold levels of children at school age. Haapaniemi JJ. **Ear Hear** 1996 Dec;17(6):469–77

Response thresholds in electrocochleography and their relation to the pure tone audiogram. Schoonhoven R, et al. **Ear Hear** 1996 Jun;17(3):266–75

Hearing threshold as measured by auditory brain stem response in human neonates. Sininger YS, et al. **Ear Hear** 1996 Oct;17(5):395–401

Preliminary observations on the development of auditory sensitivity in infants with Down syndrome. Werner LA, et al. **Ear Hear** 1996 Dec;17(6):455–68

ISO working group seeks information on high-frequency thresholds [letter] Wilber LA. **Ear Hear** 1996 Feb; 17(1):78–9

Acute human trial of the floating mass transducer. Tjellström A, et al. **Ear Nose Throat J** 1997 Apr;76(4):204–6, 209–10

Hearing thresholds of workers in a printing facility. Farahat TM, et al. **Environ Res** 1997;73(1–2):189–92

Threshold-distance measures from electrical stimulation of human brainstem. Shannon RV, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):70–4

Dependence of frequency modulation detection on frequency modulation coherence across carriers: effects of modulation rate, harmonicity, and roving of the carrier frequencies. Furukawa S, et al. **J Acoust Soc Am** 1997 Mar; 101(3):1632–43

Temporary threshold shift in a harbor seal (Phoca vitulina) [letter] Kastak D, et al. **J Acoust Soc Am** 1996 Sep; 100(3):1905–8

Fundamental frequency effects on thresholds for vowel formant discrimination. Kewley-Port D, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2462–70

Relation between the phonation threshold pressure and the prephonatory glottal width in a rectangular glottis [letter] Lucero JC. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2551–4

Age- and gender-specific reference ranges for hearing level and longitudinal changes in hearing level. Morrell CH, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):1949–67

Simulation of the effect of threshold elevation and loudness recruitment combined with reduced frequency selectivity on the intelligibility of speech in noise. Nejime Y, et al. **J Acoust Soc Am** 1997 Jul;102(1):603–15

Sound-power collection by the auditory periphery of the Mongolian gerbil Meriones unguiculatus: III. Effect of variations in middle-ear volume. Ravicz ME, et al. **J Acoust Soc Am** 1997 Apr;101(4):2135–47

The frequency response of the ER-2 speaker at the eardrum [letter] Whitehead ML, et al. **J Acoust Soc Am** 1997 Feb; 101(2):1195–8

Hearing thresholds [letter] Wilber LA. **J Am Acad Audiol** 1996 Oct;7(5):375

Objective detection of auditory evoked potentials. Comparison of several statistical tests in the frequency domain by means of Monte Carlo simulations. Cebulla M, et al. **Scand Audiol** 1996;25(3):201–6

Hearing thresholds in four-year-old children with weak or no transient-evoked otoacoustic emissions. Grenner J, et al. **Scand Audiol** 1997;26(2):107–11

Objective detection of auditory evoked potentials. Comparison of several statistical tests in the frequency domain on the basis of near-threshold ABR data. Stürzebecher E, et al. **Scand Audiol** 1997;26(1):7–14

[Course of the audiometric threshold in relation to the age in chronic acoustic trauma] Albera R. **Med Lav** 1997 Mar-Apr;88(2):121–30 (Eng. Abstr.) **(Ita)**

[Relationship between distortion product otoacoustic emissions and pure tone thresholds in normal and hearing-impaired ears] Chida E, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Apr;100(4):436–43 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Lack of effect of vancomycin and gentamicin on auditory function in guinea pigs. Nishihara K, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1098–103

Differing non-additive alterations in different parts of the nervous system of the rat. Nylén P. **Food Chem Toxicol** 1996 Nov-Dec;34(11–12):1121–3

Effects of aspirin on human psychophysical tuning curves in forward and simultaneous masking. Beveridge HA, et al. **Hear Res** 1996 Sep 15;99(1–2):110–8

Effect of sodium nitroprusside on compound action potential thresholds in the gerbil cochlea. Dais CG, et al. **Hear Res** 1996 Sep 15;99(1–2):1–6

Nimodipine at a dose that slows ABR latencies does not protect the ear against noise. Ison JR, et al. **Hear Res** 1997 Apr;106(1–2):179–83

Evoked-potential thresholds and cubic distortion product otoacoustic emissions in the chinchilla following carboplatin treatment and noise exposure. Jock BM, et al. **Hear Res** 1996 Jul;96(1–2):179–90

Variable efficacy of radical scavengers and iron chelators to attenuate gentamicin ototoxicity in guinea pig in vivo. Song BB, et al. **Hear Res** 1996 May;94(1–2):87–93

Influence of chronic kanamycin administration on basement membrane anionic sites in the labyrinth. Yamasoba T, et al. **Hear Res** 1996 Dec 1;102(1–2):116–24

Characterization of the effects of N-hydroxy-IDPN on the auditory, vestibular, and olfactory systems in rats. Crofton KM, et al. **Neurotoxicol Teratol** 1996 May-Jun; 18(3):297–303

PHYSIOLOGY

Evaluation of TEOAE and DPOAE measurements for the assessment of auditory thresholds in sensorineural hearing loss. Suckfüll M, et al. **Acta Otolaryngol (Stockh)** 1996 Jul; 116(4):528–33

Effect of hyperbaric oxygen treatment on permanent threshold shift in acoustic trauma among rats. Kuokkanen J, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:80–2

The "toughening" phenomenon in rat's auditory organ. Pukkila M, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:59–62

Hearing assessment in children with stapedius reflex threshold measurements--an alternative objective approach. Jauhiainen T, et al. **Adv Otorhinolaryngol** 1997; 51:1–7

Free-field binaural unmasking in budgerigars (Melopsittacus undulatus). Dent ML, et al. **Behav Neurosci** 1997 Jun; 111(3):590–8

Different effects of noise and salicylate and their interactions on the guinea pig cochlea. Aoyagi M, et al. **Eur Arch Otorhinolaryngol** 1996;253(7):429–34

Age-related changes in the compound action potentials of the eighth nerve in guinea pigs. Nozawa I, et al. **Eur Arch Otorhinolaryngol** 1997;254(3):145–9

Middle-latency responses to assess objective thresholds in patients with noise-induced hearing losses and Ménière's disease. Xu ZM, et al. **Eur Arch Otorhinolaryngol** 1996; 253(4–5):222–6

Hyperacusis in Williams syndrome: a sample survey study. Van Borsel J, et al. **Genet Couns** 1997;8(2):121–6

Temporal coding of low-frequency amplitude modulation in the torus semicircularis of the grass frog. Bibikov NG, et al. **Hear Res** 1996 Nov 1;101(1–2):23–44

Auditory evoked potentials in aged gerbils: responses elicited by noises separated by a silent gap. Boettcher FA, et al. **Hear Res** 1996 Dec 1;102(1–2):167–78

Impediment of basilar membrane motion reduces overload protection but not threshold sensitivity: evidence from clinical and experimental hydrops. Braun M. **Hear Res** 1996 Aug;97(1–2):1–10 (46 ref.)

Suppression in auditory-nerve fibers of cats using low-side suppressors. I. Temporal aspects. Cai Y, et al. **Hear Res** 1996 Jul;96(1–2):94–112

Long-term suppression of the responses of auditory nerve fibers to a characteristic-frequency tone by a low-frequency suppressor. Cai Y, et al. **Hear Res** 1996 Jul; 96(1–2):141–50

Average spectrum of cochlear activity: a possible synchronized firing, its olivo-cochlear feedback and alterations under anesthesia. Cazals Y, et al. **Hear Res** 1996 Nov 1;101(1–2):81–92

The effects of moderate and low levels of acoustic overstimulation on stereocilia and their tip links in the guinea pig. Clark JA, et al. **Hear Res** 1996 Sep 15; 99(1–2):119–28

Auditory brainstem response in tammar wallaby (Macropus eugenii). Cone-Wesson BK, et al. **Hear Res** 1997 Mar; 105(1–2):119–29

The effect of repeated daily noise exposure on sound-conditioned and unconditioned guinea pigs. Dagli S, et al. **Hear Res** 1997 Feb;104(1–2):39–46

Cochlear spiral ganglion cell degeneration in wild-caught mice as a function of age. Dazert S, et al. **Hear Res** 1996 Oct;100(1–2):101–6

Analysis of non-linear cochlear mechanics in the marsupial Monodelphis domestica: ancestral and modern mammalian features. Faulstich M, et al. **Hear Res** 1996 May; 94(1–2):47–53

Responses to exponential frequency modulations in the rat inferior colliculus. Felsheim C, et al. **Hear Res** 1996 Sep 1;98(1–2):137–51

Monaural and binaural spectral cues created by the external ears of the pallid bat. Fuzessery ZM. **Hear Res** 1996 May; 95(1–2):1–17

Tympanometric preconditioning of the tympanic membrane. Gaihede M. **Hear Res** 1996 Dec 1;102(1–2):28–34

Contralateral acoustic stimulation induces a phase advance in evoked otoacoustic emissions in humans. Giraud AL, et al. **Hear Res** 1996 May;94(1–2):54–62

Comparing octaves, frequency ranges, and cochlear-map curvature across species. Greenwood DD. **Hear Res** 1996 May;94(1–2):157–62 (13 ref.)

Tonotopic mapping in auditory cortex of the chinchilla. Harrison RV, et al. **Hear Res** 1996 Oct;100(1–2):157–63

Sound localization in chinchillas, III: Effect of pinna removal. Heffner RS, et al. **Hear Res** 1996 Sep 15;99(1–2):13–21

Auditory nerve neurophonic produced by the frequency difference of two simultaneously presented tones. Henry KR. **Hear Res** 1996 Sep 15;99(1–2):151–9

Response properties of units in the posterior auditory field deprived of input from the ipsilateral primary auditory cortex. Kitzes LM, et al. **Hear Res** 1996 Oct; 100(1–2):120–30

Audiogram of the big brown bat (Eptesicus fuscus). Koay G, et al. **Hear Res** 1997 Mar;105(1–2):202–10

Onset and development of auditory brainstem responses in the Mongolian gerbil (Meriones unguiculatus). McFadden SL, et al. **Hear Res** 1996 Oct;100(1–2):68–79

Low-frequency 'conditioning' provides long-term protection from noise-induced threshold shifts in chinchillas. McFadden SL, et al. **Hear Res** 1997 Jan;103(1–2):142–50

Inferior colliculus neuronal responses to masking-level-difference stimuli. Mandava P, et al. **Hear Res** 1996 Sep 15;99(1–2):79–84

Rapid acquisition of auditory brainstem responses with multiple frequency and intensity tone-bursts. Mitchell C, et al. **Hear Res** 1996 Sep 15;99(1–2):38–46

The cochlear place-frequency map of the adult and developing Mongolian gerbil. Müller M. **Hear Res** 1996 May;94(1–2):148–56

Physiology of the young adult Fischer 344 rat inferior colliculus: responses to contralateral monaural stimuli. Palombi PS, et al. **Hear Res** 1996 Oct;100(1–2):41–58

Effects of pulse separation on detection thresholds for electrical stimulation of the human cochlea. Pfingst BE, et al. **Hear Res** 1996 Sep 1;98(1–2):77–92

Representation of acoustic signals in the eighth nerve of the Tokay gecko. II. Masking of pure tones with noise. Sams-Dodd F, et al. **Hear Res** 1996 Oct;100(1–2):131–42

Interaural time and level differences: integrated or separated processing? Schröger E. **Hear Res** 1996 Jul;96(1–2):191–8

Auditory threshold sensitivity of the human neonate as measured by the auditory brainstem response. Sininger YS, et al. **Hear Res** 1997 Feb;104(1–2):27–38

Auditory frequency and intensity discrimination in pigmented rats. Syka J, et al. **Hear Res** 1996 Oct;100(1–2):107–13

Auditory function in the C3H/HeJ and C3H/HeSnJ mouse strains. Trune DR, et al. **Hear Res** 1996 Jul;96(1–2):41–5

Input from the medial nucleus of trapezoid body to an interaural level detector. Tsuchitani C. **Hear Res** 1997 Mar; 105(1–2):211–24

Auditory cortical responses in humans with profound unilateral sensorineural hearing loss from early childhood. Vasama JP, et al. **Hear Res** 1997 Feb;104(1-2):183-90

Effects of selective inner hair cell loss on auditory nerve fiber threshold, tuning and spontaneous and driven discharge rate. Wang J, et al. **Hear Res** 1997 May; 107(1-2):67-82

Auditory enhancement at the absolute threshold of hearing and its relationship to the Zwicker tone. Wiegrebe L, et al. **Hear Res** 1996 Oct;100(1-2):171-80

Temporal integration in the echolocating bat, Megaderma lyra. Wiegrebe L, et al. **Hear Res** 1996 Dec 1; 102(1-2):35-42

Sound lateralization in patients with lesions including the auditory cortex: comparison of interaural time difference (ITD) discrimination and interaural intensity difference (IID) discrimination. Yamada K, et al. **Hear Res** 1996 Nov 1;101(1-2):173-80

Intensity-dependent peak shift in cochlear transfer functions at the cellular level, its elimination by sound exposure, and its possible underlying mechanisms. Zhang M, et al. **Hear Res** 1996 Jul;96(1-2):46-58

The role of the cochlear efferent system in acquired resistance to noise-induced hearing loss. Zheng XY, et al. **Hear Res** 1997 Feb;104(1-2):191-203

Psychometric functions and temporal integration in electric hearing. Donaldson GS, et al. **J Acoust Soc Am** 1997 Jun; 101(6):3706-21

The role of adrenocortical steroid hormones in the development of hearing. Freeman S, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):167-77

Frequency extent of two-tone facilitation in onset units in the ventral cochlear nucleus. Jiang D, et al. **J Neurophysiol** 1996 Jan;75(1):380-95

Processing of interaural intensity differences in the LSO: role of interaural threshold differences. Park TJ, et al. **J Neurophysiol** 1997 Jun;77(6):2863-78

Sharpening of frequency tuning by inhibition in the thalamic auditory nucleus of the mustached bat. Suga N, et al. **J Neurophysiol** 1997 Apr;77(4):2098-114

A cheap earphone for small animals with good frequency response in the ultrasonic frequency range. Schuller G. **J Neurosci Methods** 1997 Feb;71(2):187-90

Gain, frequency response, and maximum output requirements for hearing aids. Macrae JH, et al. **J Rehabil Res Dev** 1996 Oct;33(4):363-76

Normative auditory brainstem response data for hearing threshold and neuro-otological diagnosis in the dog. Shiu JN, et al. **J Small Anim Pract** 1997 Mar;38(3):103-7

Improved hearing results from stapedotomy with myringotomy. McQueen CT, et al. **N C Med J** 1996 May-Jun;57(3):176-8

[Possibility for quantitative and frequency-specific assessment of auditory threshold with otoacoustic emissions] Dreher A, et al. **Laryngorhinootologie** 1997 Jan; 76(1):2-7 (Eng. Abstr.) **(Ger)**

[Recruitment detection--a comparison of category loudness scaling and classical supra-threshold audiometry] Kiessling J, et al. **Laryngorhinootologie** 1996 Jan;75(1):10-7 (Eng. Abstr.) **(Ger)**

[Amplitude modulation following response (AMFR)--a method for objective frequency specific audiologic diagnosis] Pethe J, et al. **Laryngorhinootologie** 1996 Jan; 75(1):23-8 (Eng. Abstr.) **(Ger)**

AUDITORY TUBE see **EUSTACHIAN TUBE**

AUERBACH'S PLEXUS see **MYENTERIC PLEXUS**

AUJESZKY'S DISEASE see **PSEUDORABIES**

AUJESZKY'S DISEASE VIRUS see **HERPESVIRUS 1, SUID**

AURANOFIN

Auranofin. Kean WF, et al. **Br J Rheumatol** 1997 May; 36(5):560-72 (111 ref.)

ADMINISTRATION & DOSAGE

A stepwise increased dose of auranofin does not influence gastrointestinal side-effects [letter] Johannsen F, et al. **Clin Exp Rheumatol** 1997 Jul-Aug;15(4):454-5

Patients with rheumatoid arthritis benefit from early 2nd line therapy: 5 year followup of a prospective double blind placebo controlled study. Egsmose C, et al. **J Rheumatol** 1995 Dec;22(12):2208-13

[Prospective clinical study of the combination therapy of auranofin and methotrexate for rheumatoid arthritis--a multi-center study] Kashiwazaki S, et al. **Ryumachi** 1996 Jun;36(3):528-44 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

[A case of interstitial pneumonitis associated with auranofin occurring only in one side lung] Katoh H, et al. **Arerugi** 1996 Jul;45(7):678-80 **(Jpn)**

[Gold nephropathy] Ujiie K, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):529-30 (4 ref.) **(Jpn)**

PHARMACOLOGY

Dual effects of auranofin on prostaglandin E2 production by rat peritoneal macrophages. Yamashita M, et al. **Eur J Pharmacol** 1997 May 1;325(2-3):221-7

Prostaglandin E2 production dependent upon cyclooxygenase-1 and cyclooxygenase-2 and its contradictory modulation by auranofin in rat peritoneal macrophages. Yamada M, et al. **J Pharmacol Exp Ther** 1997 May;281(2):1005-12

Sulfasalazine has a better efficacy/toxicity profile than auranofin--evidence from a 5 year prospective, randomized trial. McEntegart A, et al. **J Rheumatol** 1996 Nov; 23(11):1887-90

THERAPEUTIC USE

Auranofin is safe and superior to placebo in elderly-onset rheumatoid arthritis. Glennås A, et al. **Br J Rheumatol** 1997 Aug;36(8):870-7

Serum phospholipase A2 activity in patients with rheumatoid arthritis before and after treatment with methotrexate, auranofin, or combination of the two. Michaels RM, et al. **J Rheumatol** 1996 Feb;23(2):226-9

Treatment of HIV associated psoriatic arthritis with oral gold. Shapiro DL, et al. **J Rheumatol** 1996 Oct; 23(10):1818-20

AUREOLIC ACID see **PLICAMYCIN**

AURICULAR FIBRILLATION see **ATRIAL FIBRILLATION**

AURICULAR FLUTTER see **ATRIAL FLUTTER**

AURICULIN see **ATRIAL NATRIURETIC FACTOR**

AURICULO-VENTRICULAR DISSOCIATION see **HEART BLOCK**

AURICULOTEMPORAL SYNDROME see **SWEATING, GUSTATORY**

AURINTRICARBOXYLATE see **AURINTRICARBOXYLIC ACID**

AURINTRICARBOXYLIC ACID

ADMINISTRATION & DOSAGE

Synergistic effect of aurintricarboxylic acid and triflavin in a photochemically induced thrombosis model in rats. Hisamichi N, et al. **Eur J Pharmacol** 1996 Sep 19; 312(1):69-73

ANALOGS & DERIVATIVES

Exploration of the effects of linker chain modifications on anti-HIV activities in a series of cosalane analogues. Golebiewski WM, et al. **Bioorg Med Chem** 1996 Oct; 4(10):1637-48

Intrinsic solubility estimation and pH-solubility behavior of cosalane (NSC 658586), an extremely hydrophobic diprotic acid. Venkatesh S, et al. **Pharm Res** 1996 Oct;13(10):1453-9

PHARMACOLOGY

Oxidized LDLs induce massive apoptosis of cultured human endothelial cells through a calcium-dependent pathway. Prevention by aurintricarboxylic acid. Escargueil-Blanc I, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):331-9

Tyrosine phosphorylation of ErbB4 is stimulated by aurintricarboxylic acid in human neuroblastoma SH-SY5Y cells. Okada N, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):266-9

Inhibition of selenite-catalyzed superoxide generation and formation of elemental selenium (Se(o)) by copper, zinc, and aurintricarboxylic acid (ATA). Davis RL, et al. **Biochem Pharmacol** 1996 Apr 26;51(8):1015-20

Destabilization, oligomerization and inhibition of the mitogenic activity of acidic fibroblast-growth factor by aurintricarboxylic acid. Lozano RM, et al. **Eur J Biochem** 1997 Aug 15;248(1):30-6

A non-radioactive assay system for screening for inhibitors of RNA-dependent reverse transcriptase activity; an analysis using aurintricarboxylic acid and plant flavonoids. Spedding G. **J Mol Recognit** 1996 Sep-Dec;9(5-6):499-502

Human serotonin transporter: regulation by the neuroprotective agent aurintricarboxylic acid and by epidermal growth factor. Kekuda R, et al. **J Neurochem** 1997 Apr;68(4):1443-50

Inhibition of spinal monosynaptic reflex in newborn rats by aurintricarboxylic acid. Sun X, et al. **Neurosci Res** 1997 Apr;27(4):371-6

The antithrombotic effect of aurin tricarboxylic acid in the guinea pig is not solely due to its interaction with the von Willebrand factor-GPIb axis. Azzam K, et al. **Thromb Haemost** 1996 Jan;75(1):203-10

Aurin tricarboxylic acid inhibits adhesion of platelets to subendothelium. Owens MR, et al. **Thromb Res** 1996 Jan 15;81(2):177-85

THERAPEUTIC USE

A comparative study of the antithrombotic effect of aurintricarboxylic acid on arterial thrombosis in rats and guinea pigs. Takiguchi Y, et al. **Br J Pharmacol** 1996 Aug; 118(7):1633-8

Inhibition of von Willebrand factor binding to platelet GP Ib by a fractionated aurintricarboxylic acid prevents restenosis after vascular injury in hamster carotid artery. Matsuno H, et al. **Circulation** 1997 Aug 19;96(4):1299-304

AUROTHIOGLUCOSE

PHARMACOLOGY

Injection with gold thioglucose impairs sensitivity to glucose: evidence that glucose-responsive neurons are important for long-term regulation of body weight. Bergen HT, et al. **Brain Res** 1996 Sep 23;734(1-2):332-6

Exploring the expression of the melanin-concentrating hormone messenger RNA in the rat lateral hypothalamus after goldthioglucose injection. Grillon S, et al. **Neuropeptides** 1997 Apr;31(2):131-6

TOXICITY

Ventromedial hypothalamic lesions produced by gold thioglucose do not impair induction of NPY mRNA in the arcuate nucleus by fasting. Bergen HT, et al. **Brain Res** 1996 Jan 29;707(2):266-71

AUROTHIOMALATE see **GOLD SODIUM THIOMALATE**

AUROVERTINS

PHARMACOLOGY

In vitro inhibitory activity of citreoviridin against HIV-1 and an HIV-associated opportunist: Candida albicans. Vieta I, et al. **J Chemother** 1996 Oct;8(5):351-7

AUSCULTATION

see related
HEART AUSCULTATION
STETHOSCOPES

Acoustic assessment of fracture healing. Capabilities and limitations of "a lost art". Siffert RS, et al. **Am J Orthop** 1996 Sep;25(9):614-8

Assessment of breath sounds during ambulance transport. Brown LH, et al. **Ann Emerg Med** 1997 Feb;29(2):228-31

Pericardial systolic sound mimicking peristalsis--a clue to hiatus hernia [letter] Desai PV. **J Postgrad Med** 1994 Apr-Jun;40(2):102

A simple bedside manoeuvre to detect ascites. Chongtham DS, et al. **Natl Med J India** 1997 Jan-Feb;10(1):13-4

Lung auscultation in airway challenge testing. Purohit A, et al. **Respir Med** 1997 Mar;91(3):151-7

[The clinical significance of temporomandibular joint sounds. A questionnaire study among dentists and orthodontists] Türp JC, et al. **Schweiz Monatsschr Zahnmed** 1997; 107(3):190-8 **(Ger, Fre)**

[The sound during mandibular joint kinematics. The diagnostic, epidemiologic and prognostic elements] Capurso U. **Minerva Stomatol** 1997 May;46(5):247-57 (79 ref.) (Eng. Abstr.) **(Ita)**

[Frequency analysis of crackles recorded with a stethoscope-equipped recorder] Kiyokawa H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1341-47 (Eng. Abstr.) **(Jpn)**

[Cough--its neurophysiological mechanism, phases and sound] Golli V. **Pneumoftiziologia** 1997 Jan-Mar;46(1):45-8 (8 ref.) **(Rum)**

INSTRUMENTATION

Acoustic detection of intracranial aneurysms: a decision analysis. van Bruggen AC, et al. **Acta Neurochir (Wien)** 1996;138(10):1148-56

METHODS

Use of breath sounds to assist difficult intubation of the trachea. Wambani JO. **East Afr Med J** 1997 Feb;74(2):112-3

STANDARDS

Comparison of the Omron HEM-713C automated blood pressure monitor with a standard ausculatory method using a mercury manometer [see comments] Mufunda J, et al. **Cent Afr J Med** 1996 Aug;42(8):230-2. Comment in: Cent Afr J Med 1996 Oct;42(10):304; discussion 305.

STATISTICS & NUMERICAL DATA

Adaptive reduction of heart sounds from lung sounds using fourth-order statistics. Hadjileontiadis LJ, et al. **IEEE Trans Biomed Eng** 1997 Jul;44(7):642-8

AUSTRALIA ANTIGEN see **HEPATITIS B SURFACE ANTIGENS**

AUSTRALOID RACE

Fc epsilon R1-beta polymorphism and total serum IgE levels in endemically parasitized Australian aborigines. Palmer LJ, et al. **Am J Hum Genet** 1997 Jul;61(1):182-8

AUSTRALOID RACE

Patterns of persistent otitis media in the first year of life in aboriginal and non-aboriginal infants. Boswell JB, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):893–900

Palatal rugae patterns in Australian aborigines and Caucasians. Kapali S, et al. **Aust Dent J** 1997 Apr; 42(2):129–33

ABO incompatible renal transplantation: a chance to re-examine? Mackie FE, et al. **Aust N Z J Med** 1996 Dec; 26(6):824–6

Anti-streptokinase antibodies and streptokinase resistance in an Aboriginal population in northern Australia. Urdahl KB, et al. **Aust N Z J Med** 1996 Feb;26(1):49–53

A health profile of adults in a Northern Territory aboriginal community, with an emphasis on preventable morbidities [see comments] Hoy WE, et al.
Aust N Z J Public Health 1997 Apr;21(2):121–6. Comment in: Aust N Z J Public Health 1997 Jun;21(3):343–4.

Tinea due to Trichophyton violaceum in Victoria, Australia. Maslen MM, et al. **Australas J Dermatol** 1997 Aug; 38(3):124–8 (21 ref.)

Abnormal glucose tolerance and other coronary heart disease risk factors in an isolated aboriginal community in central Australia. Gault A, et al. **Diabetes Care** 1996 Nov; 19(11):1269–73

Antigenic epitope mapping of the M24 protein of Streptococcus pyogenes: implications for serodiagnosis of rheumatic fever. Norton RE, et al.
FEMS Immunol Med Microbiol 1996 Dec 31; 16(3–4):267–71

Nonencapsulated Haemophilus influenzae in Aboriginal infants with otitis media: prolonged carriage of P2 porin variants and evidence for horizontal P2 gene transfer. Smith-Vaughan HC, et al. **Infect Immun** 1997 Apr; 65(4):1468–74

Hospitalization of aboriginal and non-aboriginal patients for respiratory tract diseases in Western Australia, 1988–1993. Williams P, et al. **Int J Epidemiol** 1997 Aug;26(4):797–805

The growth of children for two generations at an Australian aboriginal community. Alsop-Shields L. **J Pediatr Nurs** 1996 Dec;11(6):402–8

Euthanasia and the potential adverse effects for Northern Territory aborigines. Collins JJ, et al. **Lancet** 1997 Jun 28; 349(9069):1907–8

Premature mortality in aboriginal adults in the Northern Territory, 1979–1991 [see comments] Cunningham J, et al. **Med J Aust** 1996 Sep 16;165(6):309–12. Comment in: Med J Aust 1997 Mar 3;166(5):278–9.

Could parasitic infections protect aboriginal children against asthma and allergies? [letter] Prociv P. **Med J Aust** 1997 Apr 7;166(7):391–2

A comparison of two pertussis epidemics in Auckland. Grant CC, et al. **N Z Med J** 1997 May 23;110(1044):182–4

Sudden infant death syndrome in Australian aboriginal and non-aboriginal infants: an analytical comparison. Alessandri LM, et al. **Paediatr Perinat Epidemiol** 1996 Jul; 10(3):309–18

Sarcoidosis in an Australian aborigine and a Torres Strait Islander. MacGinley RJ, et al.
Sarcoidosis Vasc Diffuse Lung Dis 1997 Mar;14(1):83–5

A novel DRB1 allele (DRB1*0815) defined in an Australian Aborigine. Trejaut J, et al. **Tissue Antigens** 1997 May; 49(5):529–31

Alloimmune neonatal neutropenia in Australian aboriginals: an unrecognized disorder? Rodwell RL, et al.
Transfus Med 1991 Mar;1(1):63–7

GENETICS

HLA class II alleles in Ainu living in Hidaka District, Hokkaido, northern Japan. Bannai M, et al.
Am J Phys Anthropol 1996 Sep;101(1):1–9

AUSTRALORBIS see **BIOMPHALARIA**

AUTACOIDS

see related
NEUROTRANSMITTERS

ANALYSIS

Ultrastructural localization of substance P-like immunoreactivity in the intermediolateral column of spontaneously hypertensive rats and Wistar-Kyoto rats. Tan CK, et al. **Histol Histopathol** 1996 Apr;11(2):303–11

BIOSYNTHESIS

Calcium signalling and autacoid production in endothelial cells are modulated by changes in tyrosine kinase and phosphatase activity. Fleming I, et al. **J Vasc Res** 1996 May-Jun;33(3):225–34

METABOLISM

Release of a stable cardiodepressant mediator after myocardial ischaemia during reperfusion. Felix SB, et al.
Cardiovasc Res 1997 Jul;35(1):68–79

Interaction of ethanol with inducible nitric oxide synthase messenger RNA and protein: direct effects on autacoids and endotoxin in vivo. Greenberg SS, et al.
J Pharmacol Exp Ther 1997 Aug;282(2):1044–54

AVP-independent high osmotic water permeability of frog urinary bladder and autacoids. Natochin YV, et al.
Pflugers Arch 1996 Nov-Dec;433(1-2):136–45

PHYSIOLOGY

Hormones, autacoids, neurotransmitters, and growth factors.
Curr Opin Nephrol Hypertens 1997 Jan;6(1):B1–27

Role of soluble mediators in angiogenesis. Bussolino F, et al. **Eur J Cancer** 1996 Dec;32A(14):2401–12 (110 ref.)

THERAPEUTIC USE

Slow-acting, disease-modifying osteoarthritis agents. McNamara PS, et al.
Vet Clin North Am Small Anim Pract 1997 Jul;27(4):863–81 (109 ref.)

AUTHORITARIANISM

Acting out in group therapy: avoiding authority struggles. Silverstein JL. **Int J Group Psychother** 1997 Jan;47(1):31–45

The analyst's authority. Rubin JB.
J Am Acad Psychoanal 1996 Fall;24(3):457–83

Authority, autonomy, responsibility and authorisation: with specific reference to adolescent mental health practice. Sutton A. **J Med Ethics** 1997 Feb;23(1):26–31

Reactions to penalties for an offense in relation to authoritarianism, values, perceived responsibility, perceived seriousness, and deservingness. Feather NT.
J Pers Soc Psychol 1996 Sep;71(3):571–87

The nature of knowledge and the limits of authority in psychoanalysis. Brenner C. **Psychoanal Q** 1996 Jan; 65(1):21–31

Reflections on the authority of the past in psychoanalytic thinking. Chodorow NJ. **Psychoanal Q** 1996 Jan; 65(1):32–51 (33 ref.)

Overview: knowledge and authority in the psychoanalytic relationship. Friedman L. **Psychoanal Q** 1996 Jan; 65(1):254–65

Reflections on feminine and masculine authority: a developmental perspective. Hanly CM. **Psychoanal Q** 1996 Jan;65(1):84–101

The intimate and ironic authority of the psychoanalyst's presence. Hoffman IZ. **Psychoanal Q** 1996 Jan;65(1):102–36

The analyst's authority in the psychoanalytic situation. Kernberg OF. **Psychoanal Q** 1996 Jan;65(1):137–57

Power, authority, and influence in the analytic dyad. McLaughlin JT. **Psychoanal Q** 1996 Jan;65(1):201–35

Changes in science and changing ideas about knowledge and authority in psychoanalysis. Mayer EL. **Psychoanal Q** 1996 Jan;65(1):158–200

Association of right-wing authoritarianism and income with wife abuse. Hastings BM. **Psychol Rep** 1997 Apr; 80(2):667–70

Making attributions to the physician following closing arguments of a simulated medical malpractice suit: jurors' sex, health locus of control, and locus of authority. Worthington DL. **Psychol Rep** 1997 Jun;80(3 Pt 1):943–6

Credit programs, patriarchy and men's violence against women in rural Bangladesh. Schuler SR, et al.
Soc Sci Med 1996 Dec;43(12):1729–42

AUTHORSHIP

Disclosure of financial interest: a new policy for Alzheimer disease and associated disorders [editorial] Whitehouse PJ, et al. **Alzheimer Dis Assoc Disord** 1996 Spring;10(1):1–2

Research activities survey of professional programs. Parham LD, et al. **Am J Occup Ther** 1997 Jul-Aug;51(7):622–6

Authors and authorship--reform or abolition? [editorial] Susser M. **Am J Public Health** 1997 Jul;87(7):1091–2

Case report of a case report--who owns the data? [letter] Nixon MC. **Anaesthesia** 1997 Jan;52(1):94

Ghostwriting in scientific anesthesia journals [editorial] Cullen DJ. **Anesthesiology** 1997 Aug;87(2):195–6; discussion 197–200

Acknowledgments and authors [letter; comment] Eden OB. **Arch Dis Child** 1997 May;76(5):478. Comment on: Arch Dis Child 1996 Nov;75(5):366.

Acknowledgements and authors [see comments] Moncrieff M. **Arch Dis Child** 1996 Nov;75(5):366. Comment in: Arch Dis Child 1997 May;76(5):478. Comment in: Arch Dis Child 1997 May;76(5):479.

Fragile X studies and authorship [letter; comment] [published erratum appears in Arch Med Res 1997 Spring;28(1):149] Rivera H. **Arch Med Res** 1996 Winter;27(4):587–8. Comment on: Arch Med Res 1995;26 Spec No:S77–83.

Authorship. Guidelines exist on ownership of data and authorship in multicentre collaborations [letter; comment] [see comments] Barker A, et al. **BMJ** 1997 Apr 5; 314(7086):1046. Comment on: BMJ 1996 Mar 23;312(7033):723. Comment on: BMJ 1996 Mar 30;312(7034):789–90. Comment in: BMJ 1997 Apr 5;314(7086):992.

The vexed question of authorship: views of researchers in a British medical faculty [see comments] Bhopal R, et al. **BMJ** 1997 Apr 5;314(7086):1009–12. Comment in: BMJ 1997 Apr 5;314(7086):992.

Authorship. Team approach to assigning authorship order is recommended [letter] Bhopal RS, et al. **BMJ** 1997 Apr 5;314(7086):1046–7

Authorship. Knowing who did what in studies is important [letter] Bichan HM. **BMJ** 1997 Sep 20;315(7110):746

Authorship. New authorship practices are needed in developing countries [letter] Boerma T. **BMJ** 1997 Sep 20; 315(7110):745–6

Authorship. Excluding authors may be impossible [letter] Chakravarty K. **BMJ** 1997 Sep 20;315(7110):748

Authorship. Coworkers should be named [letter] Crammer J. **BMJ** 1997 Sep 20;315(7110):745

Authorship. Author saw fraud, misconduct, and unfairness to more junior staff [letter] Currie C. **BMJ** 1997 Sep 20; 315(7110):747–8

Authorship. Number of publications given on curricula vitae should be limited [letter] Davies BW. **BMJ** 1997 Sep 20; 315(7110):748

Authorship. Bhopal and colleagues' suggested method of ordering authors wouldn't work [letter] de Sa P. **BMJ** 1997 Sep 20;315(7110):745

Authorship. Authorship is influenced by power and departmental politics [letter] Ezsias A. **BMJ** 1997 Sep 20; 315(7110):746

Authorship. Assessment of authorship depends on culture [letter] Fetters MD, et al. **BMJ** 1997 Sep 20;315(7110):747

Authorship. Without a putative contributor, would the integrity of the work change? [letter] Hall T. **BMJ** 1997 Sep 20;315(7110):746–7

Authorship. Fierce disputes about order of authors sometimes occur in China [letter] Jia JD. **BMJ** 1997 Sep 20; 315(7110):746

Authorship. Work done by junior researchers gives rise to problems [letter] McQuay HJ, et al. **BMJ** 1997 Sep 20; 315(7110):745

Authorship. System acknowledging roles of contributors is best [letter] Mann JI. **BMJ** 1997 Sep 20;315(7110):744

Definition of authorship may be changed. Clinicians who enter patients into randomised controlled trials should be acknowledged [letter] [see comments] Mason S, et al.
BMJ 1996 Sep 28;313(7060):821–2. Comment in: BMJ 1997 Jan 4;314(7073):76.

Authorship. Researchers' objective is to get the job done [letter] Phillips RK. **BMJ** 1997 Sep 20;315(7110):747

Definition of authorship may be changed. Peer reviewers should be identified at end of each published paper [letter] Scott PV, et al. **BMJ** 1996 Sep 28;313(7060):821

Authorship. Changing authorship system might be counterproductive [letter] Scott T. **BMJ** 1997 Sep 20; 315(7110):744

Authorship is dying: long live contributorship [editorial] Smith R. **BMJ** 1997 Sep 20;315(7110):696

Authorship: time for a paradigm shift? [editorial; comment] Smith R. **BMJ** 1997 Apr 5;314(7086):992. Comment on: BMJ 1997 Apr 5;314(7086):1009–12. Comment on: BMJ 1997 Apr 5;314(7086):1046.

Authorship. Question of authorship concerns everyone in training grades [letter] Wareing MJ. **BMJ** 1997 Sep 20; 315(7110):744–5

Listing of author's qualifications [letter] Ezsiás A.
Br Dent J 1997 Sep 13;183(5):157

The missing alpha blocker paper [editorial] **Br J Urol** 1997 Aug;80(2):1 p preceding 195

Author characteristics in three medical library periodicals. Haiqi Z. **Bull Med Libr Assoc** 1996 Jul;84(3):423–6

A comparison of authors publishing in two groups of U.S. medical journals [editorial] Weller AC.
Bull Med Libr Assoc 1996 Jul;84(3):359–66

Rating authors' contributions to collaborative research: the PICNIC survey of university departments of pediatrics. Pediatric Investigators' Collaborative Network on Infections in Canada [see comments] Davies HD, et al. **Can Med Assoc J** 1996 Oct 1;155(7):877–82. Comment in: Can Med Assoc J 1996 Oct 1;155(7):897–8. Comment in: Can Med Assoc J 1997 May 15;156(10):1382–3.

Publish or perish [letter; comment] Jones G.
Can Med Assoc J 1997 May 15;156(10):1382–3. Comment on: Can Med Assoc J 1996 Oct 1;155(7):877–82. Comment on: Can Med Assoc J 1996 Oct 1;155(7):897–8.

Authors: who contributes what? [editorial; comment] [see comments] Squires BP. **Can Med Assoc J** 1996 Oct 1; 155(7):897–8. Comment on: Can Med Assoc J 1996 Oct 1;155(7):877–82. Comment in: Can Med Assoc J 1997 May 15;156(10):1382–3.

A method for assigning authorship in multiauthored publications. Ahmed SM, et al. **Fam Med** 1997 Jan; 29(1):42–4

Peer review, authorship, ethics, and conflict of interest. King CR, et al. **Image J Nurs Sch** 1997;29(2):163–7 (47 ref.)

Collaborative research by graduate students. Yonge O, et al. **Image J Nurs Sch** 1996 Winter;28(4):365–7

Ethics of authorship of scientific papers. Ganatra RD.
Indian Heart J 1997 Mar-Apr;49(2):209–11

Preparing manuscripts for publication in The Journal of Bone and Joint Surgery: responsibilities of authors and editors: a view from the editor of the American volume. Cowell HR. **Instr Course Lect** 1994;43:579–86

Publication productivity of clinical and counseling psychologists. Brems C, et al. **J Clin Psychol** 1996 Nov; 52(6):723–5

Is it time for a new approach to authorship? [editorial] Leash E. **J Dent Res** 1997 Mar;76(3):724–7

Reading and writing editorials [editorial] Copp LA.
J Prof Nurs 1997 May-Jun;13(3):137–8

Multiple authorship: issues and recommendations. Erlen JA, et al. **J Prof Nurs** 1997 Jul-Aug;13(4):262–70 (23 ref.)

International affairs. Some legal, ethical, and practical considerations for nurses who write. Smith JP.

J Prof Nurs 1997 Jan–Feb;13(1):3
The meaning of authorship [letter; comment] Phibbs CS. **JAMA** 1996 Nov 6;276(17):1385; discussion 1385. Comment on: **JAMA** 1996 Jul 3;276(1):75.
When authorship fails. A proposal to make contributors accountable. Rennie D, et al. **JAMA** 1997 Aug 20; 278(7):579–85
The meaning of authorship [letter; comment] Smith GM. **JAMA** 1996 Nov 6;276(17):1385; discussion 1385. Comment on: **JAMA** 1996 Jul 3;276(1):75.
The signature of responsibility. Horton R. **Lancet** 1997 Jul 5;350(9070):5–6
Sponsorship, authorship, and a tale of two media. Horton R. **Lancet** 1997 May 17;349(9063):1411–2
Sharing honours when referencing [letter] Lapunzina P, et al. **Lancet** 1996 Nov 9;348(9037):1314
Authorship: is there an identity crisis? [editorial] van der Weyden MB. **Med J Aust** 1997 Jun 16;166(12):623
Games people play with authors' names [editorial] [see comments] **Nature** 1997 Jun 26;387(6636):831. Comment in: Nature 1997 Jul 24;388(6640):320. Comment in: Nature 1997 Sep 4;389(6646):11.
Divided by a common language [letter] Hails M. **Nature** 1996 Dec 12;384(6609):508
Salmonella or Smithella? [letter; comment] Katscher F. **Nature** 1997 Jul 24;388(6640):320. Comment on: Nature 1997 Jun 26;387(6636):831.
Credit where it's due [letter] Pai SA. **Nature** 1997 Sep 18; 389(6648):224
The serious business of listing authors [letter; comment] Stubbs C. **Nature** 1997 Jul 24;388(6640):320. Comment on: Nature 1997 Jun 26;387(6636):831.
Alphabetical orders [letter; comment] Tregenza T. **Nature** 1997 Aug 7;388(6642):511. Comment on: Nature 1997 Apr 17;386(6626):643. Comment on: Nature 1997 Jul 3;388(6637):14.
Pseudo-authorship [letter; comment] van Loon AJ. **Nature** 1997 Sep 4;389(6646):11. Comment on: Nature 1997 Jun 26;387(6636):831.
Whodunnit? [letter] White B. **Nature** 1997 Sep 25; 389(6649):326
Six characters in search of an author [editorial] D'Auria D. **Occup Med (Oxf)** 1997 May;47(4):195
What do we know about peer review? [editorial] Wessely S. **Psychol Med** 1996 Sep;26(5):883–6
CUSUM: a credible method for the determination of authorship? Hardcastle RA. **Sci Justice** 1997 Apr–Jun; 37(2):129–38
"Struck" by fraud? [letter] [see comments] de Sa P, et al. **Science** 1996 Dec 6;274(5293):1593. Comment in: Science 1997 Jan 3;275(5296):14. Comment in: Science 1997 Jan 24;275(5299):461. Comment in: Science 1997 Mar 28;275(5308):1863.
Responsibility of co-authors [letter; comment] [see comments] Gilson MK. **Science** 1997 Jan 3;275(5296):14. Comment on: Science 1996 Dec 6;274(5293):1593. Comment in: Science 1997 Feb 21;275(5303):1051.
Assigning credit [letter] Gunsalus CK, et al. **Science** 1997 Sep 12;277(5332):1592–3
Authorship: truth in labeling [letter] Hopfield JJ. **Science** 1997 Mar 7;275(5305):1403
Multiple authorship [letter] [see comments] Knight J. **Science** 1997 Jan 24;275(5299):461. Comment in: Science 1997 Mar 28;275(5308):1863.
Surprise authorship [letter; comment] Levy GN. **Science** 1997 Mar 28;275(5308):1863. Comment on: Science 1996 Dec 6;274(5293):1593. Comment on: Science 1997 Jan 24;275(5299):461.
Risks in collaboration? [letter; comment] Taylor IE. **Science** 1997 Feb 21;275(5303):1051. Comment on: Science 1997 Jan 3;275(5296):14.
Multiple authorship [letter; comment] [see comments] White B. **Science** 1997 Jan 24;275(5299):461. Comment on: Science 1996 Dec 6;274(5293):1593. Comment in: Science 1997 Mar 28;275(5308):1863.
On multiple authorship [editorial] Keats TE. **Skeletal Radiol** 1996 Jan;25(1):1
Writing a scientific paper. Fraser HS. **West Indian Med J** 1995 Dec;44(4):111–4
[Who are really the coauthors of a scientific article and why are there so many of them?] Barzilai M. **Harefuah** 1997 Jan 15;132(2):142–3 **(Heb)**
[The authorship of medical writings] Salas-Ramírez M. **Gac Med Mex** 1997 May–Jun;133(3):263–6 **(Spa)**
[Why should the number of authors of Letters to the Editor be restricted? (letter)] Echevarría JM. **Med Clin (Barc)** 1997 May 3;108(17):679 **(Spa)**
[The concept of "authorship" in scientific journals. Letter] Matías-Guiu J. **Rev Neurol** 1997 Feb;25(138):314 **(Spa)**

AUTISM

What is Asperger's disease? [editorial] Simons D. **Br J Hosp Med** 1996 Feb 7–20;55(3):80–1
Obstetric complications in autism: consequences or causes of the condition? Bolton PF, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Feb;36(2):272–81
Autism. Rapin I. **N Engl J Med** 1997 Jul 10;337(2):97–104 (82 ref.)
High functioning autistic children and the construction of "normal family life". Gray DE. **Soc Sci Med** 1997 Apr; 44(8):1097–106

BLOOD

The serotonin system in autism. Cook EH, et al. **Curr Opin Pediatr** 1996 Aug;8(4):348–54 (81 ref.)
Plasma excitatory amino acids in autism. Moreno-Fuenmayor H, et al. **Invest Clin** 1996 Jun;37(2):113–28
Plasma increase of interleukin-12 and interferon-gamma. Pathological significance in autism. Singh VK. **J Neuroimmunol** 1996 May;66(1–2):143–5

CHEMICALLY INDUCED

Linking etiologies in humans and animal models: studies of autism. Rodier PM, et al. **Reprod Toxicol** 1997 Mar–Jun; 11(2–3):417–22 (24 ref.)

CLASSIFICATION

Validation of the Revised Behavior Summarized Evaluation Scale. Barthélémy C, et al. **J Autism Dev Disord** 1997 Apr; 27(2):139–53
Brief report: assessment of development and abnormal behavior in children with pervasive developmental disorders. Evidence for the reliability and validity of the revised psychoeducational profile. Steerneman P, et al. **J Autism Dev Disord** 1997 Apr;27(2):177–85

COMPLICATIONS

Low body weight in male children and adolescents with schizoid personality disorder or Asperger's disorder. Hebebrand J, et al. **Acta Psychiatr Scand** 1997 Jul; 96(1):64–7
Treatment with buspirone in a patient with autism. McCormick LH. **Arch Fam Med** 1997 Jul–Aug;6(4):368–70
A minimally obtrusive, secure mask for prevention of access to the mouth. Taylor MB, et al. **Clin Rehabil** 1997 Feb; 11(1):77–9
More on melatonin [letter] Horrigan JP, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug;36(8):1014
Macrocephaly in children and adults with autism. Lainhart JE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Feb; 36(2):282–90
Head circumference in autism and other pervasive developmental disorders. Woodhouse W, et al. **J Child Psychol Psychiatry** 1996 Sep;37(6):665–71
Neuro-ophthalmologic findings in the Asperger disorder. Brodsky MC, et al. **J Neuroophthalmol** 1996 Sep; 16(3):185–7
Autism and macrocephaly [letter] Stevenson RE, et al. **Lancet** 1997 Jun 14;349(9067):1744–5
Communication intervention in an adolescent with profound cognitive impairment and autistic features. Pansegrouw I, et al. **S Afr J Commun Disord** 1996;43:63–75

DIAGNOSIS

Early detection of autism. Diagnostic instruments for clinicians. Gillberg C, et al. **Eur Child Adolesc Psychiatry** 1996 Jun;5(2):67–74 (66 ref.)
Molecular genetic analysis of the FMR-1 gene in a large collection of autistic patients. Klauck SM, et al. **Hum Genet** 1997 Aug;100(2):224–9
An MRI study of autism: the cerebellum revisited. Piven J, et al. **Neurology** 1997 Aug;49(2):546–51

DRUG THERAPY

Opioid-immune interactions in autism: behavioural and immunological assessment during a double-blind treatment with naltrexone. Scifo R, et al. **Ann Ist Super Sanita** 1996; 32(3):351–9
Treatment with buspirone in a patient with autism. McCormick LH. **Arch Fam Med** 1997 Jul–Aug;6(4):368–70
A controlled trial with ORG 2766, an ACTH-(4–9) analog, in 50 relatively able children with autism. Buitelaar JK, et al. **Eur Neuropsychopharmacol** 1996 Mar;6(1):13–9
Neuroleptic-related dyskinesias in autistic children: a prospective, longitudinal study. Campbell M, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):835–43
Sertraline treatment of transition-associated anxiety and agitation in children with autistic disorder. Steingard RJ, et al. **J Child Adolesc Psychopharmacol** 1997 Spring; 7(1):9–15
Inositol treatment of autism. Levine J, et al. **J Neural Transm** 1997;104(2–3):307–10
Oral famotidine: a potential treatment for children with autism. Linday LA. **Med Hypotheses** 1997 May;48(5):381–6 (38 ref.)
An open clinical trial of risperidone monotherapy in young children with autistic disorder. Findling RL, et al. **Psychopharmacol Bull** 1997;33(1):155–9

EPIDEMIOLOGY

The changing prevalence of autistic disorder in a Welsh health district. Webb EV, et al. **Dev Med Child Neurol** 1997 Mar;39(3):150–2
[Thalassemia and enzyme deficiencies in mentally retarded and autistic persons (letter)] Casado A, et al. **Sangre (Barc)** 1995 Dec;40(6):519–23 **(Spa)**

ETIOLOGY

Kabuki make-up (Niikawa-Kuroki) syndrome: cognitive abilities and autistic features. Ho HH, et al. **Dev Med Child Neurol** 1997 Jul;39(7):487–90
Association of tuberous sclerosis of temporal lobes with autism and atypical autism [see comments] Bolton PF, et al. **Lancet** 1997 Feb 8;349(9049):392–5. Comment in: Lancet 1997 Feb 8;349(9049):373–4.
Developmental abnormalities in autism [comment] Lainhart JE. **Lancet** 1997 Feb 8;349(9049):373–4. Comment on: Lancet 1997 Feb 8;349(9049):392–5.
Autistic disorder and the endogenous opioid system. Sher L. **Med Hypotheses** 1997 May;48(5):413–4 (17 ref.)

GENETICS

Autism or atypical autism in maternally but not paternally derived proximal 15q duplication. Cook EH Jr, et al. **Am J Hum Genet** 1997 Apr;60(4):928–34
Genetic influences in childhood-onset psychiatric disorders: autism and attention-deficit/hyperactivity disorder. Smalley SL. **Am J Hum Genet** 1997 Jun;60(6):1276–82 (74 ref.)
Lack of expansion of triplet repeats in the FMR1, FRAXE, and FRAXF loci in male multiplex families with autism and pervasive developmental disorders. Holden JJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):399–403
Nonfamiliality of the sex ratio in autism [letter] Jones MB, et al. **Am J Med Genet** 1996 Sep 20;67(5):499–500
Autism and genetics: high incidence of specific genetic syndromes in 21 autistic adolescents and adults living in two residential homes in Belgium [letter; comment] Swillen A, et al. **Am J Med Genet** 1996 May 31;67(3):315–6. Comment on: Am J Med Genet 1995 Aug 14;60(4):276–81.
High phenotypic correlations among siblings with autism and pervasive developmental disorders. Szatmari P, et al. **Am J Med Genet** 1996 Jul 26;67(4):354–60
Genetic analysis of genealogies in mentally retarded autistic probands from Saguenay Lac-Saint-Jean (Quebec, Canada). De Braekeleer M, et al. **Ann Genet** 1996; 39(1):47–50
Molecular genetic analysis of the FMR-1 gene in a large collection of autistic patients. Klauck SM, et al. **Hum Genet** 1997 Aug;100(2):224–9
Family history of cognitive disabilities in first-degree relatives of autistic and mentally retarded children. Boutin P, et al. **J Autism Dev Disord** 1997 Apr;27(2):165–76
Genes tPA, Fyn, and FAK in autism? [letter] Waterhouse L. **J Autism Dev Disord** 1997 Apr;27(2):220–3
Genes for Prader Willi syndrome/Angelman syndrome and fragile X syndrome are homologous, with genetic imprinting and unstable trinucleotide repeats causing mental retardation, autism and aggression. Fischer KM. **Med Hypotheses** 1996 Oct;47(4):289–98
Immunogenetic studies in autism and related disorders. Warren RP, et al. **Mol Chem Neuropathol** 1996 May–Aug; 28(1–3):77–81 (9 ref.)
Evidence of linkage between the serotonin transporter and autistic disorder. Cook EH Jr, et al. **Mol Psychiatry** 1997 May;2(3):247–50
Point mutation analysis of the FMR-1 gene in autism. Vincent JB, et al. **Mol Psychiatry** 1996 Jul;1(3):227–31

HISTORY

The first account of the syndrome Asperger described? Translation of a paper entitled "Die schizoiden Psychopathien im Kindesalter" by Dr. G.E. Ssucharewa; scientific assistant, which appeared in 1926 in the Monatsschrift für Psychiatrie und Neurologie 60:235–261 [classical article] Ssucharewa GE, et al. **Eur Child Adolesc Psychiatry** 1996 Sep;5(3):119–32
Historical issues in intervention research: hidden knowledge and facilitating techniques in Denmark. von Tetzchner S. **Eur J Disord Commun** 1997;32(1):1–18

IMMUNOLOGY

Brief report: immunoglobulin A deficiency in a subset of autistic subjects. Warren RP, et al. **J Autism Dev Disord** 1997 Apr;27(2):187–92
Immunogenetic studies in autism and related disorders. Warren RP, et al. **Mol Chem Neuropathol** 1996 May–Aug; 28(1–3):77–81 (9 ref.)

METABOLISM

Hyperserotoninemia and serotonin receptor antibodies in children with autism but not mental retardation. Singh VK, et al. **Biol Psychiatry** 1997 Mar 15;41(6):753–5
Differences in brain metabolites between patients with autism and mental retardation as detected by in vivo localized proton magnetic resonance spectroscopy. Hashimoto T, et al. **J Child Neurol** 1997 Feb;12(2):91–6
Low medial prefrontal dopaminergic activity in autistic children [letter] Ernst M, et al. **Lancet** 1997 Aug 30; 350(9078):638
Elevated serotonin levels in autism: association with the major histocompatibility complex. Warren RP, et al. **Neuropsychobiology** 1996;34(2):72–5

PATHOLOGY

Brainstem, cerebellar and limbic neuroanatomical abnormalities in autism. Courchesne E. **Curr Opin Neurobiol** 1997 Apr;7(2):269–78 (67 ref.)
Minor malformations and physical measurements in autism: data from Nova Scotia. Rodier PM, et al. **Teratology** 1997 May;55(5):319–25

AUTISM

PHYSIOPATHOLOGY

Abnormal intestinal permeability in children with autism. D'Eufemia P, et al. **Acta Paediatr** 1996 Sep;85(9):1076–9

Macrocephaly in children and adults with autism. Lainhart JE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Feb; 36(2):282–90

Excessive lateral feedback synaptic inhibition may cause autistic characteristics [letter] Gustafsson L. **J Autism Dev Disord** 1997 Apr;27(2):219–20

Autism, Asperger's syndrome and the Crick–Mitchison theory of the biological function of REM sleep. Brown DW. **Med Hypotheses** 1996 Nov;47(5):399–403

PSYCHOLOGY

Social behavior in autism. Grossman JB, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:440–54 (120 ref.)

A comparison of the self–awareness and kinesthetic–visual matching theories of self–recognition: autistic children and others. Mitchell RW. **Ann N Y Acad Sci** 1997 Jun 18; 818:38–62 (111 ref.)

Ogden's autistic–contiguous position and the role of interpretation in psychoanalytic theory building. Ryle A. **Br J Med Psychol** 1996 Jun;69 (Pt 2):129–38

The neuropsychology of autism. Happé F, et al. **Brain** 1996 Aug;119 (Pt 4):1377–400 (265 ref.)

Seriation, conservation, and theory of mind abilities in individuals with autism, individuals with mental retardation, and normally developing children. Yirmiya N, et al. **Child Dev** 1996 Oct;67(5):2045–59

Referencing skills in children with autism and specific language impairment. Baltaxe CA, et al. **Eur J Disord Commun** 1996;31(3):245–58

Autism and meta–representation: the case of epistemic modality. Nuyts J, et al. **Eur J Disord Commun** 1997;32(2 Spec No):113–37

Language and pragmatic functions in school–age children on the autism spectrum. Ramberg C, et al. **Eur J Disord Commun** 1996;31(4):387–413

Perioperative psychosocial interventions for autistic children undergoing ENT surgery. Seid M, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jun 20;40(2–3):107–13 (11 ref.)

Teaching deception skills in a game–play context to three adolescents with autism. Reinecke DR, et al. **J Autism Dev Disord** 1997 Apr;27(2):127–37

Sexual behavior in adults with autism. Van Bourgondien ME, et al. **J Autism Dev Disord** 1997 Apr;27(2):113–25

Are people with autism and Asperger syndrome faster than normal on the Embedded Figures Test? Jolliffe T, et al. **J Child Psychol Psychiatry** 1997 Jul;38(5):527–34

Mental calculation in an autistic savant: a case study. Kelly SJ, et al. **J Clin Exp Neuropsychol** 1997 Apr;19(2):172–84

Neuropsychologic functioning in autism: profile of a complex information processing disorder. Minshew NJ, et al. **J Int Neuropsychol Soc** 1997 Jul;3(4):303–16

Asperger's syndrome and memory: similarity to autism but not amnesia. Bowler DM, et al. **Neuropsychologia** 1997 Jan; 35(1):65–70

'Theory of mind' in the brain. Evidence from a PET scan study of Asperger syndrome. Happé F, et al. **Neuroreport** 1996 Dec 20;8(1):197–201

Longitudinal examination of the behavioral, language, and social changes in a population of adolescents and young adults with autistic disorder. Ballaban–Gil K, et al. **Pediatr Neurol** 1996 Oct;15(3):217–23

Autistic artists give clues to cognition. Snyder AW, et al. **Perception** 1997;26(1):93–6

A savant poet. Dowker A, et al. **Psychol Med** 1996 Sep; 26(5):913–24

Language disorders in children with autism. Rapin I, et al. **Semin Pediatr Neurol** 1997 Jun;4(2):86–92 (31 ref.)

[Autism and the autistic syndrome] Krasil'nikov GT. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(2):105–10 (120 ref.) **(Rus)**

REHABILITATION

Tactile defensiveness and stereotyped behaviors. Baranek GT, et al. **Am J Occup Ther** 1997 Feb;51(2):91–5

Teaching receptive naming of Chinese characters to children with autism by incorporating echolalia. Leung JP, et al. **J Appl Behav Anal** 1997 Spring;30(1):59–68

THERAPY

Autism, child abuse, and sudden infant death syndrome. Church C, et al. **Curr Opin Pediatr** 1997 Apr;9(2):189–94 (35 ref.)

Brief report: the effects of exercise on the self–stimulatory behaviors and positive responding of adolescents with autism. Rosenthal–Malek A, et al. **J Autism Dev Disord** 1997 Apr;27(2):193–202

Autism: time for a national approach to early assessment and management [letter; comment] Sampson AJ, et al. **Med J Aust** 1997 Apr 21;166(8):443; discussion 443, 446. Comment on: Med J Aust 1996 Sep 2;165(5):244–5.

[Quality assurance of psychiatric work with autistic children and adolescents. Diagnostic value of medical examination] Sørensen E. **Tidsskr Nor Laegeforen** 1997 Aug 30; 117(20):2934–8 (Eng. Abstr.) **(Nor)**

AUTISM, INFANTILE

Proper name hypermnesia in an autistic subject. Mottron L, et al. **Brain Lang** 1996 Jun;53(3):326–50

Autism and Asperger's syndrome. Towbin KE. **Curr Opin Pediatr** 1997 Aug;9(4):361–6 (51 ref.)

The autism survey: an evaluation of reliability and validity. Campbell DG, et al. **J Autism Dev Disord** 1996 Dec; 26(6):621–34

Adaptive and intellectual functioning in autistic and nonautistic retarded children. Carpentieri S, et al. **J Autism Dev Disord** 1996 Dec;26(6):611–20

Brief report: the effects of typed and spoken modality combinations on the language performance of adults with autism. Forsey J, et al. **J Autism Dev Disord** 1996 Dec; 26(6):643–9

Brief report: physiognomic perception in autism [published erratum appears in J Autism Dev Disord 1997 Apr;27(2):229] Kobayashi R. **J Autism Dev Disord** 1996 Dec;26(6):661–7

The influence of nonhandicapped peers on the social interactions of children with a pervasive development disorder. Roeyers H. **J Autism Dev Disord** 1996 Jun; 26(3):303–20

New editorial policy and features [editorial] Schopler E. **J Autism Dev Disord** 1996 Feb;26(1):1–5

BLOOD

Lymphocyte subsets and interleukin–2 receptors in autistic children. Denney DR, et al. **J Autism Dev Disord** 1996 Feb;26(1):87–97

Brief report: circadian melatonin, thyroid–stimulating hormone, prolactin, and cortisol levels in serum of young adults with autism. Nir I, et al. **J Autism Dev Disord** 1995 Dec;25(6):641–54

Grapefruit juice and clomipramine: shifting metabolitic ratios [letter] Oesterheld J, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):62–3

Beta–endorphin and cholecystokinin 8 concentrations in peripheral blood mononuclear cells of autistic children. Brambilla F, et al. **Neuropsychobiology** 1997;35(1):1–4

Serotonin and autism: biochemical and molecular biology features. Hérault J, et al. **Psychiatry Res** 1996 Nov 1; 65(1):33–43

CEREBROSPINAL FLUID

CSF beta–endorphin levels in patients with infantile autism. Nagamitsu S, et al. **J Autism Dev Disord** 1997 Apr; 27(2):155–63

CHEMICALLY INDUCED

Attention deficit hyperactivity disorder, infantile autism, and elevated blood–lead: a possible relationship. Eppright TD, et al. **Mo Med** 1996 Mar;93(3):136–8

COMPLICATIONS

Use of fluoxetine for obsessive–compulsive behavior in adults with autism [letter] Koshes RJ. **Am J Psychiatry** 1997 Apr; 154(4):578

Intact and impaired memory functions in autism. Bennetto L, et al. **Child Dev** 1996 Aug;67(4):1816–35

'Asperger syndrome associated with Steinert's myotonic dystrophy' [letter; comment] Paul M, et al. **Dev Med Child Neurol** 1997 Apr;39(4):280–1. Comment on: Dev Med Child Neurol 1996 Sep;38(9):840–7.

Evaluating the impact of facilitated communication on the communicative competence of fourteen students with autism. Bomba C, et al. **J Autism Dev Disord** 1996 Feb; 26(1):43–58

Brief report: stability and change in cognitive and behavioral characteristics of autism through childhood. Eaves LC, et al. **J Autism Dev Disord** 1996 Oct;26(5):557–69

Brief report: planning problems in autism at the level of motor control. Hughes C. **J Autism Dev Disord** 1996 Feb; 26(1):99–107

Brief report: the association between autism and fragile X syndrome: a case report. Lenti C, et al. **J Autism Dev Disord** 1995 Dec;25(6):655–62

Joint attention in preverbal children: autism and developmental language disorder. McArthur D, et al. **J Autism Dev Disord** 1996 Oct;26(5):481–96

Working memory in children with autism and with moderate learning difficulties. Russell J, et al. **J Child Psychol Psychiatry** 1996 Sep;37(6):673–86

Autism in Down's syndrome: family history correlates. Ghaziuddin M. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):87–91

Autism and epilepsy (and tuberous sclerosis?) in two pre–adolescent boys: neuropsychiatric aspects before and after epilepsy surgery. Gillberg C, et al. **J Intellect Disabil Res** 1996 Feb;40 (Pt 1):75–81

Tics associated with autistic and pervasive developmental disorders. Stern JS, et al. **Neurol Clin** 1997 May; 15(2):345–55 (54 ref.)

A new case of trichothiodystrophy associated with autism, seizures, and mental retardation. Schepis C, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):125–8

[Bourneville's tuberous sclerosis and autism] Reich M, et al. **Arch Pediatr** 1997 Feb;4(2):170–5 (24 ref.) (Eng. Abstr.) **(Fre)**

[Ophthalmologic signs in children with autism] Denis D, et al. **J Fr Ophtalmol** 1997;20(2):103–10 (40 ref.) (Eng. Abstr.) **(Fre)**

[Hypomelanosis of Ito: autism, segmental dilatation of colon and unusual neuroimaging findings] Hermida A, et al. **Rev Neurol** 1997 Jan;25(137):71–4 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Anterior cingulate gyrus volume and glucose metabolism in autistic disorder [see comments] Haznedar MM, et al. **Am J Psychiatry** 1997 Aug;154(8):1047–50. Comment in: Am J Psychiatry 1997 Aug;154(8):1043–5.

An MRI study of the corpus callosum in autism. Piven J, et al. **Am J Psychiatry** 1997 Aug;154(8):1051–6

Autism and celiac disease: failure to validate the hypothesis that a link might exist. Pavone L, et al. **Biol Psychiatry** 1997 Jul 1;42(1):72–5

Psychological markers in the detection of autism in infancy in a large population. Baron–Cohen S, et al. **Br J Psychiatry** 1996 Feb;168(2):158–63

Early detection of autism. Diagnostic instruments for clinicians. Gillberg C, et al. **Eur Child Adolesc Psychiatry** 1996 Jun;5(2):67–74 (66 ref.)

Hyperactivity and ADHD [letter; comment] Adesman AR. **J Am Acad Child Adolesc Psychiatry** 1996 Oct;35(10):1262 . Comment on: J Am Acad Child Adolesc Psychiatry 1996 Feb;35(2):246–9; discussion 249–51.

Comparison of clinical symptoms in autism and Asperger's disorder. Eisenmajer R, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1523–31

Hand preference and hand skill in children with autism. Cornish KM, et al. **J Autism Dev Disord** 1996 Dec; 26(6):597–609

Professional perceptions of children with developmental difficulties: the influence of race and socioeconomic status. Cuccaro ML, et al. **J Autism Dev Disord** 1996 Aug; 26(4):461–9

Pedantic speaking style differentiates Asperger syndrome from high–functioning autism. Ghaziuddin M, et al. **J Autism Dev Disord** 1996 Dec;26(6):585–95

Counting abilities in autism: possible implications for central coherence theory. Jarrold C, et al. **J Autism Dev Disord** 1997 Feb;27(1):25–37

Commentary on Siegel, Minshew, and Goldstein [editorial; comment] Mesibov G. **J Autism Dev Disord** 1996 Aug; 26(4):387–8. Comment on: J Autism Dev Disord 1996 Aug;26(4):389–406.

What is PDD–NOS and how is it diagnosed? Mesibov GB. **J Autism Dev Disord** 1997 Aug;27(4):497–8

The validity and reliability of the Wing Subgroups Questionnaire. O'Brien SK. **J Autism Dev Disord** 1996 Jun; 26(3):321–35

Sensory–perceptual abnormalities in autism: a case for more research? O'Neill M, et al. **J Autism Dev Disord** 1997 Jun; 27(3):283–93 (35 ref.)

Social perception in children with autism: an attentional deficit? Pierce K, et al. **J Autism Dev Disord** 1997 Jun; 27(3):265–82

Are autism and Asperger syndrome (AS) different labels or different disabilities? Schopler E. **J Autism Dev Disord** 1996 Feb;26(1):109–10

Sign language and motor functioning in students with autistic disorder. Seal BC, et al. **J Autism Dev Disord** 1997 Aug; 27(4):437–66

Wechsler IQ profiles in diagnosis of high–functioning autism [see comments] Siegel DJ, et al. **J Autism Dev Disord** 1996 Aug;26(4):389–406. Comment in: J Autism Dev Disord 1996 Aug;26(4):387–8.

Changing criteria of autistic disorders: a comparison of the ICD–10 research criteria and DSM–IV with DSM–III–R, CARS, and ABC. Sponheim E. **J Autism Dev Disord** 1996 Oct;26(5):513–25

Pervasive developmental disorder, commonly abbreviated as PDD [editorial] Volkmar F. **J Autism Dev Disord** 1997 Feb;27(1):103–5

Diagnosis and classification in autism. Waterhouse L, et al. **J Autism Dev Disord** 1996 Feb;26(1):59–86

Asperger syndrome in neurologic perspective [see comments] Bonnet KA, et al. **J Child Neurol** 1996 Nov;11(6):483–9 (71 ref.). Comment in: J Child Neurol 1996 Nov;11(6):427–9.

Nonverbal learning disabilities, Asperger's syndrome, pervasive developmental disorder—should we care? [editorial; comment] Brumback RA, et al. **J Child Neurol** 1996 Nov;11(6):427–9. Comment on: J Child Neurol 1996 Nov;11(6):483–9.

Long–term stability of individual differences in the emotional responsiveness of children with autism. Dissanayake C, et al. **J Child Psychol Psychiatry** 1996 May;37(4):461–7

Asperger syndrome, autism and attention disorders: a comparative study of the cognitive profiles of 120 children. Ehlers S, et al. **J Child Psychol Psychiatry** 1997 Feb; 38(2):207–17

Follow–up of two–year–olds referred for possible autism. Lord C. **J Child Psychol Psychiatry** 1995 Nov; 36(8):1365–82

Did Asperger's cases have Asperger disorder? A research note. Miller JN, et al. **J Child Psychol Psychiatry** 1997 Feb;38(2):247–51

Treating people as objects, agents, or "subjects": how young children with and without autism make requests. Phillips

W, et al. **J Child Psychol Psychiatry** 1995 Nov; 36(8):1383–98

Children with a pervasive developmental disorder, children with a language disorder and normally developing children in situations with high- and low-level involvement of the caregiver. Willemsen-Swinkels SH, et al. **J Child Psychol Psychiatry** 1997 Mar;38(3):327–36

A comparison of obstetric and neonatal complications between children with autistic disorder and their siblings. Deb S, et al. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):81–6

Autism in immigrants: a population-based study from Swedish rural and urban areas. Gillberg IC, et al. **J Intellect Disabil Res** 1996 Feb;40 (Pt 1):24–31

Autism: time for a national approach to early assessment and management [letter; comment] Ryan JP, et al. **Med J Aust** 1997 Apr 21;166(8):443; discussion 443, 446. Comment on: Med J Aust 1996 Sep 2;165(5):244–5.

Moving on: autism and movement disturbance. Leary MR, et al. **Ment Retard** 1996 Feb;34(1):39–53 (145 ref.)

Prognostic significance of depression occurrence in infantile autism. Scifo R, et al. **Minerva Pediatr** 1996 Nov; 48(11):495–8

A comparative study of Asperger syndrome with high-functioning atypical autism. Kurita H. **Psychiatry Clin Neurosci** 1997 Apr;51(2):67–70

The standardized diagnosis of autism, Autism Diagnostic Interview-Revised: interrater reliability of the German form of the interview. Poustka F, et al. **Psychopathology** 1996;29(3):145–53

[Natural history of infantile autism (nosography)] Malvy J, et al. **Encephale** 1997 Jan-Feb;23(1):28–33 (30 ref.) (Eng. Abstr.) **(Fre)**

[Asperger syndrome--an overview of diagnostic criteria] Bonus B, et al. **Fortschr Neurol Psychiatr** 1997 Jan; 65(1):41–8 (39 ref.) (Eng. Abstr.) **(Ger)**

DRUG THERAPY

A double-blind, placebo-controlled study of fluvoxamine in adults with autistic disorder [see comments] McDougle CJ, et al. **Arch Gen Psychiatry** 1996 Nov;53(11):1001–8. Comment in: Arch Gen Psychiatry 1996 Nov;53(11):980–3.

The effects of chronic naltrexone treatment in young autistic children: a double-blind placebo-controlled crossover study. Willemsen-Swinkels SH, et al. **Biol Psychiatry** 1996 Jun 15;39(12):1023–31

Possible effects of tetrahydrobiopterin treatment in six children with autism--clinical and positron emission tomography data: a pilot study. Fernell E, et al. **Dev Med Child Neurol** 1997 May;39(5):313–8

Treatment of autistic disorder. Campbell M, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Feb;35(2):134–43 (122 ref.)

Resolved: autistic children should have a trial of naltrexone [see comments] Campbell M, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Feb;35(2):246–9; discussion 249–51. Comment in: J Am Acad Child Adolesc Psychiatry 1996 Oct;35(10):1262.

Drug therapy in autism [letter] Frischauf E. **J Am Acad Child Adolesc Psychiatry** 1997 May;36(5):577

Clonidine side effect [letter] McCracken JT, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Feb;36(2):160–1

A pilot study of clomipramine in young autistic children. Sanchez LE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr;35(4):537–44

Side effects associated with psychoactive medication in individuals with autism [letter] Aman MG, et al. **J Autism Dev Disord** 1997 Jun;27(3):342–4

High-dose pyridoxine and magnesium administration in children with autistic disorder: an absence of salutary effects in a double-blind, placebo-controlled study. Findling RL, et al. **J Autism Dev Disord** 1997 Aug; 27(4):467–78

Risperidone and explosive aggressive autism. Horrigan JP, et al. **J Autism Dev Disord** 1997 Jun;27(3):313–23

Pentoxifylline: brief review and rationale for its possible use in the treatment of autism. Gupta S, et al. **J Child Neurol** 1996 Nov;11(6):501–4 (44 ref.)

Effects of ORG-2766 on brain event-related potentials of autistic children. Verbaten MN, et al. **Psychiatry Res** 1996 Jun 26;63(1):33–45

Hyperkinesias in a prepubertal boy with autistic disorder treated with haloperidol and valproic acid. Brasić JR, et al. **Psychol Rep** 1997 Feb;80(1):163–70

[An approach to the pharmacological treatment of autism] Ruggieri VL. **Rev Neurol** 1996 Nov;24(135):1451–5 (58 ref.) (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Adenylosuccinate lyase (ADSL) and infantile autism: absence of previously reported point mutation. Fon EA, et al. **Am J Med Genet** 1995 Dec 18;60(6):554–7

EPIDEMIOLOGY

Pitocin induction and autism [letter] Fein D, et al. **Am J Psychiatry** 1997 Mar;154(3):438–9

Cumulative incidence and prevalence of childhood autism in children in Japan [see comments] Honda H, et al. **Br J Psychiatry** 1996 Aug;169(2):228–35. Comment in: Br J Psychiatry 1996 Nov;169(5):671–2.

Childhood autism in Japan [letter; comment] Takei N. **Br J Psychiatry** 1996 Nov;169(5):671–2. Comment on: Br J Psychiatry 1996 Aug;169(2):228–35.

Case study: comorbidity among Tourette's syndrome, autistic disorder, and bipolar disorder. Kerbeshian J, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May;35(5):681–5

Is the prevalence of autism increasing? [editorial] Fombonne E. **J Autism Dev Disord** 1996 Dec;26(6):673–6

ETIOLOGY

Autism research. Bringing together approaches to pull apart the disorder [comment] McBride PA, et al. **Arch Gen Psychiatry** 1996 Nov;53(11):980–3. Comment on: Arch Gen Psychiatry 1996 Nov;53(11):985–9. Comment on: Arch Gen Psychiatry 1996 Nov;53(11):993–1000. Comment on: Arch Gen Psychiatry 1996 Nov;53(11):1001–8.

From impasse to insight in autism research: from behavioral symptoms to biological explanations. Yeung-Courchesne R, et al. **Dev Psychopathol** 1997 Spring;9(2):389–419 (280 ref.)

A case-control study of obstetric complications and later autistic disorder. Cryan E, et al. **J Autism Dev Disord** 1996 Aug;26(4):453–60

Obstetrical suboptimality in autistic children: an Italian sample [letter] Zambrino CA, et al. **J Autism Dev Disord** 1997 Aug;27(4):493–4

Head circumference measurements in children with autism. Davidovitch M, et al. **J Child Neurol** 1996 Sep;11(5):389–93

Embryological origin for autism: developmental anomalies of the cranial nerve motor nuclei. Rodier PM, et al. **J Comp Neurol** 1996 Jun 24;370(2):247–61

Food allergy and infantile autism. Lucarelli S, et al. **Panminerva Med** 1995 Sep;37(3):137–41

A review of psychoanalytic theory and treatment of childhood autism. Roser K. **Psychoanal Rev** 1996 Jun; 83(3):325–41 (37 ref.)

Executive function in parents of children with autism. Hughes C, et al. **Psychol Med** 1997 Jan;27(1):209–20

GENETICS

Adenylosuccinate lyase (ADSL) and infantile autism: absence of previously reported point mutation. Fon EA, et al. **Am J Med Genet** 1995 Dec 18;60(6):554–7

Broader autism phenotype: evidence from a family history study of multiple-incidence autism families. Piven J, et al. **Am J Psychiatry** 1997 Feb;154(2):185–90

Autosomal folate sensitive fragile sites in an autistic Basque sample. Arrieta I, et al. **Ann Genet** 1996;39(2):69–74

Autism and the X chromosome. Multipoint sib-pair analysis [see comments] Hallmayer J, et al. **Arch Gen Psychiatry** 1996 Nov;53(11):985–9. Comment in: Arch Gen Psychiatry 1996 Nov;53(11):980–3.

X chromosome and infantile autism. Petit E, et al. **Biol Psychiatry** 1996 Sep 15;40(6):457–64

Maternal origin of inv dup(15) chromosomes in infantile autism. Martinsson T, et al. **Eur Child Adolesc Psychiatry** 1996 Dec;5(4):185–92

Autistic behaviors among girls with fragile X syndrome. Mazzocco MM, et al. **J Autism Dev Disord** 1997 Aug; 27(4):415–35

A broader phenotype of autism: the clinical spectrum in twins. Le Couteur A, et al. **J Child Psychol Psychiatry** 1996 Oct;37(7):785–801

Autism in Down's syndrome: family history correlates. Ghaziuddin M. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):87–91

IMMUNOLOGY

Dysregulated immune system in children with autism: beneficial effects of intravenous immune globulin on autistic characteristics. Gupta S, et al. **J Autism Dev Disord** 1996 Aug;26(4):439–52

Autism and the immune system. van Gent T, et al. **J Child Psychol Psychiatry** 1997 Mar;38(3):337–49 (115 ref.)

METABOLISM

Anterior cingulate gyrus volume and glucose metabolism in autistic disorder [see comments] Haznedar MM, et al. **Am J Psychiatry** 1997 Aug;154(8):1047–50. Comment in: Am J Psychiatry 1997 Aug;154(8):1043–5.

PATHOLOGY

Regional brain enlargement in autism: a magnetic resonance imaging study. Piven J, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr;35(4):530–6

Head circumference measurements in children with autism. Davidovitch M, et al. **J Child Neurol** 1996 Sep;11(5):389–93

PHYSIOPATHOLOGY

Autism research. Bringing together approaches to pull apart the disorder [comment] McBride PA, et al. **Arch Gen Psychiatry** 1996 Nov;53(11):980–3. Comment on: Arch Gen Psychiatry 1996 Nov;53(11):985–9. Comment on: Arch Gen Psychiatry 1996 Nov;53(11):993–1000. Comment on: Arch Gen Psychiatry 1996 Nov;53(11):1001–8.

Autism and the inferior colliculus [letter] Simon N. **J Autism Dev Disord** 1997 Aug;27(4):494–6

Neurologic abnormalities in infantile autism. Haas RH, et al. **J Child Neurol** 1996 Mar;11(2):84–92

PSYCHOLOGY

Cognitive explanations of autism. Frith U. **Acta Paediatr Suppl** 1996 Oct;416:63–8 (34 ref.)

Effects of tryptophan depletion in drug-free adults with autistic disorder [see comments] McDougle CJ, et al. **Arch Gen Psychiatry** 1996 Nov;53(11):993–1000. Comment in: Arch Gen Psychiatry 1996 Nov;53(11):980–3.

X chromosome and infantile autism. Petit E, et al. **Biol Psychiatry** 1996 Sep 15;40(6):457–64

Do children with autism use the speaker's direction of gaze strategy to crack the code of language? Baron-Cohen S, et al. **Child Dev** 1997 Feb;68(1):48–57

Imitation and pantomime in high-functioning adolescents with autism spectrum disorders. Rogers SJ, et al. **Child Dev** 1996 Oct;67(5):2060–73

The relationship between joint attention and pretend play in autism. Charman T. **Dev Psychopathol** 1997 Winter; 9(1):1–16 (110 ref.)

Deficits, delays, and distractions: an evaluation of symbolic play and memory in children with autism. McDonough L, et al. **Dev Psychopathol** 1997 Winter;9(1):17–41

The long-term outcome of childhood empathy disorders. Gillberg C. **Eur Child Adolesc Psychiatry** 1996;5 Suppl 1:52–6 (51 ref.)

Behavioral aspects of infantile autism: an ethological description. Pedersen J, et al. **Eur Child Adolesc Psychiatry** 1997 Jun;6(2):96–106

Autistic barriers in the psychoanalysis of borderline adults. Cohen D, et al. **Int J Psychoanal** 1996 Oct;77 (Pt 5):913–33

Language level and nonverbal social-communicative behaviors in autistic and language-delayed children. Lord C, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1542–50

Course of behavioral change in autism: a retrospective study of high-IQ adolescents and adults. Piven J, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr;35(4):523–9

Brief report: morality in the autistic child. Blair RJ. **J Autism Dev Disord** 1996 Oct;26(5):571–9

Using obsessions as reinforcers with and without mild reductive procedures to decrease inappropriate behaviors of children with autism. Charlop-Christy MH, et al. **J Autism Dev Disord** 1996 Oct;26(5):527–46

Brief report: prompted pretend play in autism. Charman T, et al. **J Autism Dev Disord** 1997 Jun;27(3):325–32

Autistic children's responses to separation and reunion with their mothers. Dissanayake C, et al. **J Autism Dev Disord** 1997 Jun;27(3):295–312

Social initiations by autistic children to adults and other children. Hauck M, et al. **J Autism Dev Disord** 1995 Dec; 25(6):579–95

An investigation of attention and affect in children with autism and Down syndrome. Joseph RM, et al. **J Autism Dev Disord** 1997 Aug;27(4):385–96

Linking parental perceptions to interactions in young children with autism. Kasari C, et al. **J Autism Dev Disord** 1997 Feb;27(1):39–57

Sociosexual knowledge, experience, attitudes, and interests of individuals with autistic disorder and developmental delay. Konstantareas MM, et al. **J Autism Dev Disord** 1997 Aug;27(4):397–413

Imitation of pretend play acts by children with autism and Down syndrome. Libby S, et al. **J Autism Dev Disord** 1997 Aug;27(4):365–83

Procedures for reducing dental fear in children with autism. Luscre DM, et al. **J Autism Dev Disord** 1996 Oct; 26(5):547–56

A comparison of speaking and mute individuals with autism and autistic-like conditions on the Autism Behavior Checklist. Miranda-Linné FM, et al. **J Autism Dev Disord** 1997 Jun;27(3):245–64

Inhibitory function in nonretarded children with autism. Ozonoff S, et al. **J Autism Dev Disord** 1997 Feb;27(1):59–77

Visual-spatial orienting in autism. Wainwright JA, et al. **J Autism Dev Disord** 1996 Aug;26(4):423–38

Case study: cross-gender preoccupations with two male children with autism. Williams PG, et al. **J Autism Dev Disord** 1996 Dec;26(6):635–42

Disembedding performance and recognition memory in autism/PDD. Brian JA, et al. **J Child Psychol Psychiatry** 1996 Oct;37(7):865–72

Theory of mind in non-retarded children with autism and Asperger's syndrome. A research note. Dahlgren SO, et al. **J Child Psychol Psychiatry** 1996 Sep;37(6):759–63

Studying weak central coherence at low levels: children with autism do not succumb to visual illusions. A research note. Happé FG. **J Child Psychol Psychiatry** 1996 Oct; 37(7):873–7

Theory of mind abilities in individuals with autism, Down syndrome, and mental retardation of unknown etiology: the role of age and intelligence. Yirmiya N, et al. **J Child Psychol Psychiatry** 1996 Nov;37(8):1003–14

Academic engaged time of students with low-incidence disabilities in general education classes. McDonnell J, et al. **Ment Retard** 1997 Feb;35(1):18–26

Naturalistic observation of children with autism: evidence for intersubjectivity. Toomey J, et al. **New Dir Child Dev** 1995 Fall;(69):75–89 (28 ref.)

Longitudinal examination of ... a population ... with autistic disorder [letter] Crosley CJ. **Pediatr Neurol** 1997 May; 16(4):353

Psychology update. Integrating research in stereotypic behavior. Sprague RL, et al. **Psychiatr Serv** 1996 Nov;

47(11):1191–2
Autism from an intersubjective perspective. Roser K, et al. **Psychoanal Rev** 1996 Jun;83(3):305–23 (28 ref.)

RADIONUCLIDE IMAGING

Possible effects of tetrahydrobiopterin treatment in six children with autism—clinical and positron emission tomography data: a pilot study. Fernell E, et al. **Dev Med Child Neurol** 1997 May;39(5):313–8

REHABILITATION

A comparison of the performance of children with and without autism on the Sensory Profile. Kientz MA, et al. **Am J Occup Ther** 1997 Jul–Aug;51(7):530–7
An assessment approach to abuse allegations made through facilitated communication. Howlin P, et al. **Child Abuse Negl** 1996 Feb;20(2):103–10
Postural orientation modifications in autism in response to ambient lenses. Kaplan M, et al. **Child Psychiatry Hum Dev** 1996 Winter;27(2):81–91
Combining noncontingent reinforcement and differential reinforcement schedules as treatment for aberrant behavior. Marcus BA, et al. **J Appl Behav Anal** 1996 Spring; 29(1):43–51
Using a choice assessment to predict reinforcer effectiveness. Piazza CC, et al. **J Appl Behav Anal** 1996 Spring;29(1):1–9
Multiple peer use of pivotal response training to increase social behaviors of classmates with autism: results from trained and untrained peers. Pierce K, et al. **J Appl Behav Anal** 1997 Spring;30(1):157–60
TEACCH–supported employment program. Keel JH, et al. **J Autism Dev Disord** 1997 Feb;27(1):3–9
Full inclusion and students with autism. Mesibov GB, et al. **J Autism Dev Disord** 1996 Jun;26(3):337–46 (14 ref.)
The TEACCH strategy in mentally retarded children with autism: a multidimensional assessment. Pilot study. Treatment and Education of Autistic and Communication Handicapped children [letter] Panerai S, et al. **J Autism Dev Disord** 1997 Jun;27(3):345–7
The influence of nonhandicapped peers on the social interactions of children with a pervasive development disorder. Roeyers H. **J Autism Dev Disord** 1996 Jun; 26(3):303–20
The method of stimulated serial repetitions of gymnastic exercises in therapy of autistic children [letter] Szot Z. **J Autism Dev Disord** 1997 Jun;27(3):341–2
Failure to confirm the word–retrieval problem hypothesis in facilitated communication. Vázquez CA. **J Autism Dev Disord** 1995 Dec;25(6):597–610
Investigation of the validity of facilitated communication through the disclosure of unknown information. Sheehan CM, et al. **Ment Retard** 1996 Apr;34(2):94–107
A validated case study of facilitated communication. Weiss MJ, et al. **Ment Retard** 1996 Aug;34(4):220–30
The differential and temporal effects of antecedent exercise on the self–stimulatory behavior of a child with autism. Celiberti DA, et al. **Res Dev Disabil** 1997 Mar–Apr; 18(2):139–50
The effect of object preferences on task performance and stereotypy in a child with autism. Morrison K, et al. **Res Dev Disabil** 1997 Mar–Apr;18(2):127–37

SURGERY

Surgical treatment of severe autistic regression in childhood epilepsy. Neville BG, et al. **Pediatr Neurol** 1997 Feb; 16(2):137–40

THERAPY

Dialysable lymphocyte extract (DLyE) in infantile onset autism: a pilot study. Fudenberg HH. **Biotherapy** 1996; 9(1–3):143–7
Prognosis in autism: do specialist treatments affect long–term outcome? Howlin P. **Eur Child Adolesc Psychiatry** 1997 Jun;6(2):55–72 (167 ref.)
Transference and countertransference in the analysis of a child with autistic nuclei. Franch NJ. **Int J Psychoanal** 1996 Aug;77 (Pt 4):773–86
Review of Frances Tustin [letter] Spensley S. **Int J Psychoanal** 1996 Dec;77 (Pt 6):1234–5
Treatment of autistic disorder. Campbell M, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Feb;35(2):134–43 (122 ref.)
Autism and related conditions [letter; comment] Volkmar FR, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr; 35(4):401–3. Comment on: J Am Acad Child Adolesc Psychiatry 1995 Aug;34(8):1107–11.
Training and generalization of affective behavior displayed by youth with autism. Gena A, et al. **J Appl Behav Anal** 1996 Fall;29(3):291–304
Naming, the formation of stimulus classes, and applied behavior analysis. Stromer R, et al. **J Appl Behav Anal** 1996 Fall;29(3):409–31
The long–term effects of auditory training on children with autism [see comments] Bettison S. **J Autism Dev Disord** 1996 Jun;26(3):361–74. Comment in: J Autism Dev Disord 1997 Jun;27(3):347–8.
Brief report: autistic children's attentiveness and responsivity improve after touch therapy. Field T, et al. **J Autism Dev Disord** 1997 Jun;27(3):333–8
When is a significant change not significant? [letter; comment] Howlin P. **J Autism Dev Disord** 1997 Jun;27(3):347–8. Comment on: J Autism Dev Disord 1995 Feb;25(1):61–70. Comment on: J Autism Dev Disord 1996 Jun;26(3):361–74.
Variables related to differences in standardized test outcomes for children with autism. Koegel LK, et al. **J Autism Dev Disord** 1997 Jun;27(3):233–43
Collateral effects of parent training on family interactions. Koegel RL, et al. **J Autism Dev Disord** 1996 Jun; 26(3):347–59
Benchmarks of social treatment for children with autism. McGee GG, et al. **J Autism Dev Disord** 1997 Aug; 27(4):353–64
Brief report: two case studies using virtual reality as a learning tool for autistic children. Strickland D, et al. **J Autism Dev Disord** 1996 Dec;26(6):651–9
Teaching preschool age autistic children to make spontaneous initiations to peers using priming. Zanolli K, et al. **J Autism Dev Disord** 1996 Aug;26(4):407–22
Increasing on–task behaviour through interruption–prompting. Duker PC, et al. **J Intellect Disabil Res** 1996 Aug;40 (Pt 4):291–7
Autism: time for a national approach to early assessment and management [letter; comment] Ryan JP, et al. **Med J Aust** 1997 Apr 21;166(8):443; discussion 443, 446. Comment on: Med J Aust 1996 Sep 2;165(5):244–5.
Beginning treatment of an autistic child from an intersubjective perspective. Roser K, et al. **Psychoanal Rev** 1996 Jun;83(3):343–62
Analysis and intervention with two topographies of challenging behavior exhibited by a young woman with autism. Kern L, et al. **Res Dev Disabil** 1997 Jul–Aug; 18(4):275–87
Behavioral treatment of autistic persons: a review of research from 1980 to the present. Matson JL, et al. **Res Dev Disabil** 1996 Nov–Dec;17(6):433–65 (135 ref.)

URINE

Serotonin and autism: biochemical and molecular biology features. Hérault J, et al. **Psychiatry Res** 1996 Nov 1; 65(1):33–43

AUTO–PEEP see **POSITIVE–PRESSURE RESPIRATION, INTRINSIC**

AUTOANALYSIS

Identification of hematopoietic stem cells by the SE–9000 automated hematology analyzer in peripheral blood stem cell harvest samples. Takekawa K, et al. **Acta Haematol** 1997;98(1):54–5
Automated analysis of levosimendan in human plasma by on–line dialysis and liquid chromatography. Karlsson M, et al. **Biomed Chromatogr** 1997 Jan–Feb;11(1):54–8
Cerium oxide removes background fluorescent contaminants, "green smears", from glass plates used for automated fluorescence–based DNA sequencing. Bunville J, et al. **Biotechniques** 1997 Feb;22(2):236–8
Cytosine methylation: quantitation by automated genomic sequencing and GENESCAN analysis. Paul CL, et al. **Biotechniques** 1996 Jul;21(1):126–33
Automation of human sperm cell analysis by flow cytometry. Ferrara F, et al. **Clin Chem** 1997 May;43(5):801–7
Adaptation of latex–enhanced assay for percent glycohemoglobin to a Dade Dimension analyzer. Holownia P, et al. **Clin Chem** 1997 Jan;43(1):76–84
Ascorbic acid determination with an automated enzymatic procedure. Lee W, et al. **Clin Chem** 1997 Jan;43(1):154–7
Automated measurement of mouse apolipoprotein B: convenient screening tool for mouse models of atherosclerosis. Levine DM, et al. **Clin Chem** 1997 Apr; 43(4):669–74
Automated immunoassay of cardiac Troponin I in serum evaluated [letter] Panteghini M, et al. **Clin Chem** 1997 Jan; 43(1):195–6
Prevention of analytical false–positive increases of cardiac troponin I on the Stratus II analyzer [letter] Roberts WL, et al. **Clin Chem** 1997 May;43(5):860–1
Development and validation of a particle–enhanced turbidimetric inhibition assay for urine albumin on the Dade aca analyzer. Thakkar H, et al. **Clin Chem** 1997 Jan; 43(1):109–13
Quantitative colorimetric determination of urinary p–aminophenol with an automated analyzer. Van Boxlaer JF, et al. **Clin Chem** 1997 Apr;43(4):627–34
Automated analysis of antepartum fetal heart rate in relation to fetal rest–activity states: a longitudinal study of uncomplicated pregnancies using the Sonicaid System 8000. Mantel R, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan;71(1):41–51
Evaluation of different solid–phase traps for automated collection and clean–up in the analysis of multiple pesticides in fruits and vegetables after supercritical fluid extraction. Lehotay SJ, et al. **J Chromatogr A** 1997 Mar 21; 765(1):69–84
Simultaneous quantitation of sixteen organochlorine pesticides in drinking waters using automated solid–phase extraction, high–volume injection, high–resolution gas chromatography. Quayle WC, et al. **J Chromatogr A** 1997 Jun 27;773(1–2):271–6
Automated quantitative determination of a new polyamine biosynthesis inhibitor (CGP 48 664) and a potential metabolite in human and animal plasma by high–performance liquid chromatography. Degen PH, et al. **J Chromatogr B Biomed Appl** 1996 Jun 7;681(2):339–45
High–performance liquid chromatographic method for an automated determination of local anaesthetics in human plasma. Drewe J, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):105–10
Automated gas chromatographic assay for amlodipine in plasma and gingival crevicular fluid. Monkman SC, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):360–4
Implications of automated creatine kinase (CK)–MM1,2,3/CK–MB1,2 isoform analysis as an early marker for the detection of myocardial tissue damage. Swaanenburg JC, et al. **Scand J Clin Lab Invest** 1996 Nov; 56(7):627–33
[Importance of automatic blood analysis in clinical practice] Baidun LV, et al. **Gematol Transfuziol** 1996 Mar–Apr; 41(2):36–41 **(Rus)**

INSTRUMENTATION

Analysis of lidocaine on the COBAS INTEGRA. Liu–Allison LY, et al. **Ann Clin Lab Sci** 1997 Mar–Apr; 27(2):105–15
Sarstedt Monovettes falsely increase total calcium results [letter] Collier J, et al. **Clin Chem** 1996 Oct;42(10):1722
COBAS AMPLICOR: fully automated RNA and DNA amplification and detection system for routine diagnostic PCR. DiDomenico N, et al. **Clin Chem** 1996 Dec; 42(12):1915–23
Application of gels of 0.5 mm thickness to electrophoresis in the automated HPGE–1000 apparatus: improved resolution. Chang HT, et al. **Electrophoresis** 1996 Jan; 17(1):80–3
Separation of DNA sequencing fragments using an automated capillary electrophoresis instrument. Karger AE. **Electrophoresis** 1996 Jan;17(1):144–51
Reproducibility of mobility in gel electrophoresis. Zakharov SF, et al. **Electrophoresis** 1996 Jan;17(1):84–90
A direct technique for the simultaneous determination of 10 drug candidates in plasma by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry interfaced to a Prospekt solid–phase extraction system. McLoughlin DA, et al. **J Pharm Biomed Anal** 1997 Aug;15(12):1893–901

METHODS

A semiautomated method for the assay of cyclic adenosine 5'–monophosphate phosphodiesterase. Daniels DV, et al. **Anal Biochem** 1996 May 1;236(2):367–9
Semiautomated sequence–specific mutation detection of the human K–ras oncogene using "cold" SSCP analysis. Hruszkewycz AM, et al. **Clin Chem** 1996 Oct;42(10):1717–9
Performance evaluation of automated immunoassays on the Technicon Immuno 1 system. Letellier M, et al. **Clin Chem** 1996 Oct;42(10):1695–701
Shortcomings of an automated assay for total antioxidant status in biological fluids [see comments] Schofield D, et al. **Clin Chem** 1996 Oct;42(10):1712–4. Comment in: Clin Chem 1997 May;43(5):852–4.
Fluid elements—a concept for automation of diagnostic tests. Van Damme H, et al. **Clin Chem** 1997 Feb;43(2):369–78
Design and assessment of average of normals (AON) patient data algorithms to maximize run lengths for automatic process control. Westgard JO, et al. **Clin Chem** 1996 Oct; 42(10):1683–8
An automated procedure for cluster analysis of multivariate satellite data. Waldemark J. **Int J Neural Syst** 1997 Feb; 8(1):3–15
Inorganic, organic, and total mercury in blood and urine: cold vapor analysis with automated flow injection sample delivery. Nixon DE, et al. **J Anal Toxicol** 1996 Jan–Feb; 20(1):17–22
An automated high volume assay to screen for inhibitors of myo–inositol monophosphatase from microbial fermentation broths. Vincendon P, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):710–2

STANDARDS

The serum anion gap. Has the reference interval really fallen? Roberts WL, et al. **Arch Pathol Lab Med** 1997 Jun; 121(6):568–72
Automated five–part white blood cell differential counts. Efficiency of software–generated white blood cell suspect flags of the hematology analyzers Sysmex SE–9000, Sysmex NE–8000, and Coulter STKS. Thalhammer–Scherrer R, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):573–7
Single or duplicate analysis for automated prothrombin time and activated partial thromboplastin time? Ivey LM, et al. **Pathology** 1997 Feb;29(1):67–71

AUTOANTIBODIES

see related
AUTOIMMUNE DISEASES
AUTOIMMUNITY

B Lymphocytes and Autoimmunity. Proceedings of a conference. Prague, Czech Republic, May 21–25, 1996. **Ann N Y Acad Sci** 1997 Apr 5;815:1–528
Autoantibodies and autoimmunity: a three–decade perspective. A tribute to Henry G. Kunkel. Tan EM. **Ann N Y Acad Sci** 1997 Apr 5;815:1–14 (29 ref.)

How far have we come on the way toward understanding the role of autoimmunity in the development of idiopathic dilated cardiomyopathy? [editorial] Fu ML, et al. **Blood Press Suppl** 1996;3:5–7 (26 ref.)

New autoantibodies and their antigens in autoimmune diseases. Storch WB. **Cell Mol Biol (Noisy-le-grand)** 1997 May;43(3):337–44 (52 ref.)

Autoantibodies in systemic lupus erythematosus. Alarcón-Segovia D, et al. **Curr Opin Rheumatol** 1996 Sep; 8(5):403–7 (33 ref.)

Antibodies to glutamic acid decarboxylase in Japanese diabetic patients with secondary failure of oral hypoglycaemic therapy. Fukui M, et al. **Diabet Med** 1997 Feb;14(2):148–52

Anti-(U1)snRNP autoantibodies inhibit homologous pairing activity of the human recombination complex. Dowjat K. **DNA Cell Biol** 1997 Jul;16(7):819–27

Autoimmunity and reproduction. Geva E, et al. **Fertil Steril** 1997 Apr;67(4):599–611 (100 ref.)

Inhibition of PDC-E2 human combinatorial autoantibodies by peptide mimotopes. Leung PS, et al. **J Autoimmun** 1996 Dec;9(6):785–93

Autoantibodies in childhood opsoclonus-myoclonus syndrome [editorial; comment] Posner JB. **J Pediatr** 1997 Jun;130(6):855–7. Comment on: J Pediatr 1997 Jun;130(6):878–84.

Manuscripts presented at the DNA Antibody Workshop. London, May 11–12, 1996. **Lupus** 1997;6(3):287–350

Autoantibodies and pregnancy loss [editorial; comment] Cowchock S. **N Engl J Med** 1997 Jul 17;337(3):197–8. Comment on: N Engl J Med 1997 Jul 17;337(3):148–50. Comment on: N Engl J Med 1997 Jul 17;337(3):154–60.

Anti-GBM antibodies in Goodpasture syndrome; anatomy of an epitope [editorial] Hellmark T, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):646–8 (10 ref.)

Autoantibodies--what do they recognize? Tan EM. **Verh Dtsch Ges Pathol** 1996;80:1–11 (29 ref.)

[Autoantibodies in nervous system diseases] Humbel RL, et al. **Bull Soc Sci Med Grand Duche Luxemb** 1996; 133(1):13–24 **(Fre)**

[Anti-glycoconjugate antibodies and dysglobulinemic or dysimmune peripheral neuropathies] Steck AJ, et al. **Rev Neurol (Paris)** 1996 May;152(5):400–4 (27 ref.) (Eng. Abstr.) **(Fre)**

[Molecular analysis of experimental membranous glomerulonephritis (Heymann nephritis)] Kerjaschki D. **Verh Dtsch Ges Pathol** 1996;80:139–47 (45 ref.) (Eng. Abstr.) **(Ger)**

[Cell adhesion molecules and extracellular matrix components as target structures of autoimmunity] Moll R, et al. **Verh Dtsch Ges Pathol** 1996;80:67–79 (51 ref.) (Eng. Abstr.) **(Ger)**

[Molecular mimicry between neurofilaments and titin as the basis for autoimmunity towards skeletal muscle in paraneoplastic myasthenia gravis] Wilisch A, et al. **Verh Dtsch Ges Pathol** 1996;80:261–6 (Eng. Abstr.) **(Ger)**

[Development of collagen vascular diseases and production of autoantibodies in HTLV-I env-pX transgenic rats] Yamazaki H. **Hokkaido Igaku Zasshi** 1996 May; 71(3):325–43 (Eng. Abstr.) **(Jpn)**

[Renal lesions of rats induced by antibodies to cultured rat glomerular epithelial cells and mesangial cells] Tamura N, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):387–94 (Eng. Abstr.) **(Jpn)**

[The effect of anti-GM1 antibodies on ionic channel in myelinated nerve] Takigawa T, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1377 **(Jpn)**

[Treatment of autoimmune neuromuscular diseases with intravenous immunoglobulins] Illa I, et al. **Rev Neurol** 1997 Feb;25(138):263–6 (21 ref.) **(Spa)**

ADVERSE EFFECTS

Occurrence of the interference of sperm-associated antibodies on sperm fertilizing ability as evaluated by the sperm-zona pellucida binding test and by the TEST-yolk buffer enhanced sperm penetration assay. Francavilla F, et al. **Am J Reprod Immunol** 1997 Mar;37(3):267–74

The cytotoxic effect of neonatal lupus erythematosus and maternal sera on keratinocyte cultures is complement-dependent and can be augmented by ultraviolet irradiation. Yu HS, et al. **Br J Dermatol** 1996 Aug;135(2):297–301

Human anti-nicotinic acetylcholine receptor recombinant Fab fragments isolated from thymus-derived phage display libraries from myasthenia gravis patients reflect predominant specificities in serum and block the action of pathogenic serum antibodies. Graus YF, et al. **J Immunol** 1997 Feb 15;158(4):1919–29

ANALYSIS

GAD 65 antibody but not ICA positivity in adult-onset diabetic patients is associated with early progression to clinical insulin dependency. Hatziagelaki E, et al. **Acta Diabetol** 1996 Dec;33(4):291–4

Detection of paraneoplastic anti-neuronal autoantibodies on paraffin-embedded tissues. Giometto B, et al. **Acta Neuropathol (Berl)** 1996 Nov;92(5):435–40

A study of antimitochondrial antibodies in a random population in Estonia. Turchany JM, et al. **Am J Gastroenterol** 1997 Jan;92(1):124–6

Hunter's syndrome with an endogenous anticoagulant [letter] Street AM. **Am J Hematol** 1996 Dec;53(4):277

Scleroderma, D-penicillamine treatment, and progressive renal failure associated with positive antimyeloperoxidase antineutrophil cytoplasmic antibodies. Hillis GS, et al. **Am J Kidney Dis** 1997 Aug;30(2):279–81

Antiendothelial cell antibodies: useful markers of systemic sclerosis. Salojin KV, et al. **Am J Med** 1997 Feb; 102(2):178–85

Serological markers of autoimmunity in renal transplant patients before and after alpha-interferon therapy for chronic hepatitis C. Rostaing L, et al. **Am J Nephrol** 1996; 16(6):478–83

Autoimmune retinopathy in the absence of cancer. Mizener JB, et al. **Am J Ophthalmol** 1997 May;123(5):607–18

Primary pulmonary hypertension, tissue plasminogen activator antibodies, and HLA-DQ7. Morse JH, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):274–8

Antimitochondrial antibody (113-1) in the differential diagnosis of granular renal cell tumors. Tickoo SK, et al. **Am J Surg Pathol** 1997 Aug;21(8):922–30

Detection and characterization of autoantibodies directed against neurofilament proteins in human African trypanosomiasis. Ayed Z, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):1–6

Endometriosis: identification by carbonic anhydrase autoantibodies and clinical features. Brinton DA, et al. **Ann Clin Lab Sci** 1996 Sep-Oct;26(5):409–20

Inhibition of sodium channel currents by antineuronal autoantibody from autoimmune mice. Crimando J, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:303–7

Anti-P antibodies and neuropsychiatric lupus erythematosus. Georgescu L, et al. **Ann N Y Acad Sci** 1997 Aug 14; 823:263–9 (28 ref.)

Autoantibodies to nervous system tissue in human and murine systemic lupus erythematosus. Moore PM. **Ann N Y Acad Sci** 1997 Aug 14;823:289–99 (92 ref.)

Anti-p53 autoantibodies in colon cancer patients. Sthoeger Z, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:496–8

Autoantibodies detected to expressed K+ channels are implicated in neuromyotonia. Hart IK, et al. **Ann Neurol** 1997 Feb;41(2):238–46

Antimyosin antibodies in cardiac rejection. Schütz A, et al. **Ann Thorac Surg** 1997 Feb;63(2):578–81 (19 ref.)

Serum from normal elderly individuals contains anti-basement membrane zone antibodies. Hachisuka H, et al. **Arch Dermatol** 1996 Oct;132(10):1201–5

Immune-mediated subepithelial blistering diseases of the mucous membranes. Improving the detection of circulating autoantibodies by the use of concentrated serum samples. Korman NJ, et al. **Arch Dermatol** 1996 Oct;132(10):1194–8

IgA antikeratinocyte surface autoantibodies from two types of intercellular IgA vesiculopustular dermatosis recognize distinct isoforms of desmocollin. Hashimoto T, et al. **Arch Dermatol Res** 1996 Jul;288(8):447–52

Clinical, serologic, and immunogenetic features in Polish patients with idiopathic inflammatory myopathies. Hausmanowa-Petrusewicz I, et al. **Arthritis Rheum** 1997 Jul;40(7):1257–66

Characteristic epitope recognition pattern of autoantibodies against eukaryotic ribosomal protein L7 in systemic autoimmune diseases. Neu E, et al. **Arthritis Rheum** 1997 Apr;40(4):661–71

Changes of serum antibodies to heat-shock protein 65 in coronary heart disease and acute myocardial infarction. Hoppichler F, et al. **Atherosclerosis** 1996 Oct 25; 126(2):333–8

Macrophage-lysis mediated by autoantibodies to heat shock protein 65/60. Schett G, et al. **Atherosclerosis** 1997 Jan 3;128(1):27–38

Autoantibodies against MDA-LDL in subjects with severe and minor atherosclerosis and healthy population controls. van de Vijver LP, et al. **Atherosclerosis** 1996 May; 122(2):245–53

Identification of thyroid blocking antibodies and receptor epitopes in autoimmune hypothyroidism by affinity purification using synthetic TSH receptor peptides. Bryant WP, et al. **Autoimmunity** 1995;22(2):69–79

Nerve growth factor (NGF) autoantibodies and NGF in the synovial fluid: implications in spondylarthropathies. Dicou E, et al. **Autoimmunity** 1996;24(1):1–9

Relation between antibodies to islet cell antigens, other autoantigens and cow's milk proteins in diabetic children and unaffected siblings at the clinical manifestation of IDDM. The Childhood Diabetes in Finland Study Group. Vähäsalo P, et al. **Autoimmunity** 1996;23(3):165–74

Population based study of prevalence of islet cell autoantibodies in monozygotic and dizygotic Danish twin pairs with insulin dependent diabetes mellitus. Petersen JS, et al. **BMJ** 1997 May 31;314(7094):1575–9

Antibodies to interferon-alpha: a novel type of autoantibody occurring after allogeneic bone marrow transplantation. Prümmer O, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):617–23

Anti-BP180 autoantibodies as a marker of poor prognosis in bullous pemphigoid: a cohort analysis of 94 elderly patients. Bernard P, et al. **Br J Dermatol** 1997 May; 136(5):694–8

IgA-epidermolysis bullosa acquisita in a child resulting in blindness. Caux F, et al. **Br J Dermatol** 1997 Aug; 137(2):270–5

Vesicular pemphigoid with antidesmoplakin autoantibodies [letter] Okura M, et al. **Br J Dermatol** 1997 May; 136(5):794–6

Epidermolysis bullosa acquisita associated with epidermal-binding circulating antibodies. Wakelin SH, et al. **Br J Dermatol** 1997 Apr;136(4):604–9

CMV infection after allogeneic bone marrow transplantation is associated with the occurrence of various autoantibodies and monoclonal gammopathies. Hebart H, et al. **Br J Haematol** 1996 Oct;95(1):138–44

Quantitation of platelet-specific autoantibodies in platelet eluates of ITP patients measured by a novel ELISA using the purified glycoprotein complexes GPIIb/IIIa and GPIb/IX as antigens. Hurlimann-Forster M, et al. **Br J Haematol** 1997 Aug;98(2):328–35

Diagnostic value of anti-RA33 antibody, antikeratin antibody, antiperinuclear factor and antinuclear antibody in early rheumatoid arthritis: comparison with rheumatoid factor [see comments] Cordonnier C, et al. **Br J Rheumatol** 1996 Jul;35(7):620–4. Comment in: Br J Rheumatol 1997 Jun;36(6):710–2.

Further characterization of anti-endothelial cell antibodies in systemic lupus erythematosus by controlled immunoblotting. Hill MB, et al. **Br J Rheumatol** 1996 Dec; 35(12):1231–8

Long-term follow-up of autoantibody profiles in black female lupus patients and clinical comparison with Caucasian and Asian patients. Isenberg DA, et al. **Br J Rheumatol** 1997 Feb;36(2):229–33

Autoantibodies against cardiolipin and endothelial cells in Takayasu's arteritis: prevalence and isotype distribution [letter] Nityanand S, et al. **Br J Rheumatol** 1997 Aug; 36(8):923–4

Relationship between the development of blindness in Churg-Strauss syndrome and anti-myeloperoxidase antibodies. Sutcliffe N, et al. **Br J Rheumatol** 1997 Feb; 36(2):273–5

Autoantibodies in systemic sclerosis. Steen VD. **Bull Rheum Dis** 1996 Oct;45(6):6–8

Autoantibodies to tyrosinase: the bridge between melanoma and vitiligo. Fishman P, et al. **Cancer** 1997 Apr 15; 79(8):1461–4

Presence of antilamin antibodies in sera of patients with systemic lupus erythematosus. Wang H, et al. **Chin Med Sci J** 1995 Dec;10(4):223–5

Increased frequency of organ-specific cardiac antibodies in healthy relatives of patients with dilated cardiomyopathy: evidence for autoimmunity in Polish families. Bilinska ZT, et al. **Clin Cardiol** 1996 Oct;19(10):794–8

Glutamic acid decarboxylase autoantibody assay using 125I-labelled recombinant GAD65 produced in yeast. Powell M, et al. **Clin Chim Acta** 1996 Dec 30;256(2):175–88

Lack of agreement among two commercial enzyme-linked immunosorbent antibody assays and a conventional immunofluorescence-based method for detecting islet cell autoantibodies. Baron EJ, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):429–31

Autoantibodies against arterial antigens: characterization by ELISA and immunoblot analysis in the spontaneously hypertensive rat. Ofosu-Appiah W, et al. **Clin Exp Hypertens** 1996 Jan;18(1):21–35

Autoantibody reactive with the human general transcription factor TFIIF in sera from patients with autoimmune disorders. Cai Y, et al. **Clin Exp Immunol** 1997 Sep; 109(3):488–94

Presence of glomerular basement membrane (GBM) antibodies in HIV- patients with Pneumocystis carinii pneumonia. Calderon EJ, et al. **Clin Exp Immunol** 1997 Mar;107(3):448–50

Immunoprecipitation of melanogenic enzyme autoantigens with vitiligo sera: evidence for cross-reactive autoantibodies to tyrosinase and tyrosinase-related protein-2 (TRP-2). Kemp EH, et al. **Clin Exp Immunol** 1997 Sep;109(3):495–500

Primary pulmonary hypertension: immunogenetic response to high-mobility group (HMG) proteins and histone. Morse JH, et al. **Clin Exp Immunol** 1996 Nov;106(2):389–95

Anti-Ro52 antibodies frequently co-occur with anti-Jo-1 antibodies in sera from patients with idiopathic inflammatory myopathy. Rutjes SA, et al. **Clin Exp Immunol** 1997 Jul;109(1):32–40

A new approach to cytochrome CYP2D6 antibody detection in autoimmune hepatitis type-2 (AIH-2) and chronic hepatitis C virus (HCV) infection: a sensitive and quantitative radioligand assay. Yamamoto AM, et al. **Clin Exp Immunol** 1997 Jun;108(3):396–400

Antibody epitopes probed by immunoselected phage-display library peptides in members of a family with various rheumatic manifestations. Fakhfakh F, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):607–11

Autoantibodies to collagens in Japanese patients with ankylosing spondylitis. Tani Y, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):295–7

Anticentromere antibody reacts with bacille Calmette-Guérin in a patient with mycobacterial lymphadenitis. Azuma A, et al. **Clin Infect Dis** 1996 Dec; 23(6):1325–6

Tubulointerstitial nephritis with renal tubular acidosis and asymptomatic primary biliary cirrhosis accompanied by antibody to a 52-kDa mitochondrial protein alone. Kodama T, et al. **Clin Nephrol** 1996 Jun;45(6):401–5

Antiendothelial cell antibodies (AECA) in systemic lupus erythematosus (SLE). D'Cruz D, et al.

Clin Rev Allergy Immunol 1997 Spring;15(1):53–63 (54 ref.)
Antiendothelial cell antibodies (AECA) in patients with uveoretinitis. Edelsten C, et al.
Clin Rev Allergy Immunol 1997 Spring;15(1):41–52 (40 ref.)
Psoriatic arthritis and minocycline induced autoantibodies. Leitch DN, et al. **Clin Rheumatol** 1997 May;16(3):317–8
Systemic lupus erythmatosus associated with autoimmune hepatitis two cases with novel autoantibodies to transfer RNA–related antigens. Satoh T, et al. **Clin Rheumatol** 1997 May;16(3):305–9
Autoantibodies in black South Africans with systemic lupus erythematosus: spectrum and clinical associations. Tikly M, et al. **Clin Rheumatol** 1996 May;15(3):261–5
Interaction between panel reactive antibodies, auto– and cold reactive antibodies, and a positive B cell cross–match in renal and cardiac allograft survival. Creemers P, et al. **Clin Transplant** 1997 Apr;11(2):134–8
Autoantibodies in systemic lupus erythematosus. Cabral AR, et al. **Curr Opin Rheumatol** 1997 Sep;9(5):387–92 (39 ref.)
Autoantibodies associated with presymptomatic insulin–dependent diabetes mellitus in women. Whittingham S, et al. **Diabet Med** 1997 Aug;14(8):678–85
Value of antibodies to islet protein tyrosine phosphatase–like molecule in predicting type 1 diabetes. Hawa M, et al. **Diabetes** 1997 Aug;48(8):1270–5
The role of late–onset autoimmune diabetes in white familial NIDDM pedigrees. Elbein SC, et al. **Diabetes Care** 1997 Aug;20(8):1248–51
Islet cell antibody in mitochondrial diabetes [letter] Suzuki Y, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):163–5
Islet cell antibodies and antibodies against glutamic acid decarboxylase in newly diagnosed adult–onset diabetes mellitus. Willis JA, et al. **Diabetes Res Clin Pract** 1996 Jul; 33(2):89–97
IA–2–autoantibodies complement GAD65–autoantibodies in new–onset IDDM patients and help predict impending diabetes in their siblings. The Belgian Diabetes Registry. Gorus FK, et al. **Diabetologia** 1997 Jan;40(1):95–9
Combined screening for autoantibodies to IA–2 and antibodies to glutamic acid decarboxylase in first degree relatives of patients with IDDM. The DENIS Study Group. Deutsche Nikotinamid Interventions–Studie. Seissler J, et al. **Diabetologia** 1996 Nov;39(11):1351–6
Anti–myenteric neuronal antibodies in patients with achalasia. A prospective study. Verne GN, et al. **Dig Dis Sci** 1997 Feb;42(2):307–13
Computer–supported analysis (MegaBlot) of allopurinol–induced changes in the autoantibody repertoires of rats suffering from experimental lens–induced uveitis. Grus FH, et al. **Electrophoresis** 1997 Mar–Apr; 18(3–4):516–9
A possible common cell surface autoantigen in islet beta–cells and thyroid follicular cells in patients with non–insulin dependent diabetes mellitus and chronic thyroiditis. Igawa T, et al. **Endocr J** 1996 Jun;43(3):299–306
Glutamic acid decarboxylase65 (GAD65) antibodies and insulin auto–antibodies in Japanese patients with non–insulin–dependent diabetes mellitus. Maruyama T, et al. **Endocr J** 1997 Feb;44(1):43–51
Circulating cardiac–specific autoantibodies as markers of autoimmunity in clinical and biopsy–proven myocarditis. The Myocarditis Treatment Trial Investigators. Caforio AL, et al. **Eur Heart J** 1997 Feb;18(2):270–5
Detection of the TP53 tumour suppressor gene product and p53 auto–antibodies in the ascites of women with ovarian cancer. Angelopoulou K, et al. **Eur J Cancer** 1997 Jan; 33(1):115–21
A time–resolved immunofluorometric assay of autoantibodies to double–stranded DNA. van der Sluijs Veer G, et al. **Eur J Clin Chem Clin Biochem** 1996 Nov;34(11):915–20
Islet cell–specific autoantibodies in children with insulin–dependent diabetes mellitus and their siblings at clinical manifestation of the disease. Childhood Diabetes in Finland Study Group [see comments] Vähäsalo P, et al. **Eur J Endocrinol** 1996 Dec;135(6):689–95. Comment in: Eur J Endocrinol 1996 Dec;135(6):643–4.
Association between serum levels of total IgA and IgA class endomysial and antigliadin antibodies: implications for coeliac disease screening. Dickey W, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):559–62
Distinct patterns of immunoglobulin classes and IgG subclasses of autoantibodies in patients with inflammatory bowel disease. Müller–Ladner U, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):579–84
Combined antibody screening for improved prediction of IDDM–-modern strategies. Roll U, et al. **Exp Clin Endocrinol Diabetes** 1997;105(1):1–14 (41 ref.)
High–titer interferon–alpha antibodies in a patient with pemphigus foliaceus. Prümmer O, et al. **Exp Dermatol** 1996 Aug;5(4):213–7
Neonatal injection of native proton pump antigens induces autoimmune gastritis in mice. Claeys D, et al. **Gastroenterology** 1997 Oct;113(4):1136–45
Acquired intestinal aganglionosis and circulating autoantibodies without neoplasia or other neural involvement. Smith VV, et al. **Gastroenterology** 1997 Apr; 112(4):1366–71
Autoantibody prevalence in chronic hepatitis B virus infection: effect in interferon alfa. Gregorio GV, et al. **Hepatology** 1996 Sep;24(3):520–3
Does antimitochondrial antibody status affect response to treatment in patients with primary biliary cirrhosis? Outcomes of ursodeoxycholic acid therapy and liver transplantation. Kim WR, et al. **Hepatology** 1997 Jul; 26(1):22–6
Quantitative measurement of autoantibodies to recombinant mitochondrial antigens in patients with primary biliary cirrhosis: relationship of levels of autoantibodies to disease progression. Van Norstrand MD, et al. **Hepatology** 1997 Jan;25(1):6–11
Familial dysalbuminemic hyperthyroxinemia and thyroid hormone autoantibodies: interference in current free thyroid hormone assays. Sapin R, et al. **Horm Res** 1996; 45(3–5):139–41 (8 ref.)
Reactivity to tyrosinase: expression in cancer (melanoma) and autoimmunity (vitiligo). Merimsky O, et al. **Hum Antibodies Hybridomas** 1996;7(4):151–6
CD4–reactive antibodies in systemic lupus erythematosus. Lenert P, et al. **Hum Immunol** 1996 Aug;49(1):38–48
The indirect immunobead test for seminal antisperm antibodies and fertilization rates at in–vitro fertilization. Ford WC, et al. **Hum Reprod** 1996 Jul;11(7):1418–22
Organ–specific autoantibodies are possible markers for reproductive failure: a prospective study in an in–vitro fertilization–embryo transfer programme. Geva E, et al. **Hum Reprod** 1996 Aug;11(8):1627–31
The 60 kDa heat shock protein in human semen: relationship with antibodies to spermatozoa and Chlamydia trachomatis. Munoz MG, et al. **Hum Reprod** 1996 Dec;11(12):2600–3
Autoantibodies and blood coagulation. Das Gupta A. **Indian J Med Sci** 1996 May;50(5):168–76
Antisperm antibodies in prepubertal boys treated with chemotherapy for malignant or non–malignant diseases and in boys with genital tract abnormalities. Sinisi AA, et al. **Int J Androl** 1997 Feb;20(1):23–8
DNA–alginate complex recognized by autoantibodies against DNA. Kitamura H, et al. **Int J Biol Macromol** 1997 Feb; 20(1):75–7
Antibody reactivities to tumor–suppressor protein p53 and HTLV–I Tof, Rex and Tax in HTLV–I–infected people with differing clinical status. Chen YM, et al. **Int J Cancer** 1997 Apr 10;71(2):196–202
Functional analysis of autoantibodies against ADP/ATP carrier from dilated cardiomyopathy. Liao YH. **Int J Cardiol** 1996 May;54(2):165–9 (43 ref.)
Sunlight and air temperature affect autoantibody activity and skin involvement of bullous pemphigoid. Kyriakis KS, et al. **Int J Dermatol** 1996 Jul;35(7):498–501
Photosensitivity and autoantibodies to Sm, Ro, and La in a patient with silicosis [letter] Vidaller A, et al. **Int J Dermatol** 1996 Sep;35(9):679–80 (10 ref.)
Amyotrophic lateral sclerosis with anti–acetylcholine receptor antibody. Okuyama Y, et al. **Intern Med** 1997 Apr; 36(4):312–5
Does the presence of serum autoantibodies influence the responsiveness to interferon–alpha 2a treatment in chronic hepatitis C? Wada M, et al. **Intern Med** 1997 Apr; 36(4):248–54
Organ–specific autoantibodies in coeliac disease: do they represent an epiphenomenon or the expression of associated autoimmune disorders? Volta U, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):18–21
Anti–epiligrin cicatricial pemphigoid in a patient with HIV. Lish KM, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):486–8
D–penicillamine–induced pemphigus foliaceus with autoantibodies to desmoglein–1 in a patient with mixed connective tissue disease. Peñas PF, et al. **J Am Acad Dermatol** 1997 Jul;37(1):121–3
Prevalence of islet cell antibodies and B cell functional status in insulin dependent diabetes. Merchant PC, et al. **J Assoc Physicians India** 1996 Jul;44(7):457–60
Detection of glutamic acid decarboxylase (GAD) autoantibodies by indirect immunofluorescence using CHO cells expressing recombinant human GAD65. Papouchado ML, et al. **J Autoimmun** 1996 Oct;9(5):689–97
II. Adrenal cortex and steroid 21–hydroxylase autoantibodies in children with organ–specific autoimmune diseases: markers of high progression to clinical Addison's disease. Betterle C, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):939–42
I. Adrenal cortex and steroid 21–hydroxylase autoantibodies in adult patients with organ–specific autoimmune diseases: markers of low progression to clinical Addison's disease. Betterle C, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):932–8
Thyrotropin receptor autoantibodies in serum are present at much lower levels than thyroid peroxidase autoantibodies: analysis by flow cytometry. Jaume JC, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):500–7
The human thyrotropin (TSH) receptor in a TSH binding inhibition assay for TSH receptor autoantibodies. Kakinuma A, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2129–34
Evaluation of islet cell antigen (ICA) 512/IA–2 autoantibody radioassays using overlapping ICA512/IA–2 constructs. Kawasaki E, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):375–80
Antimitochondrial antibody–negative chronic nonsuppurative destructive cholangitis. Atypical primary biliary cirrhosis or autoimmune cholangitis? Sánchez–Pobre P, et al. **J Clin Gastroenterol** 1996 Oct;23(3):191–8
Antiplatelet glycoprotein autoantibodies in patients with autoimmune diseases with and without thrombocytopenia. Cordiano I, et al. **J Clin Immunol** 1996 Nov;16(6):340–7
Increased incidence of neutralizing autoantibodies against interleukin–1 alpha (IL–1 alpha) in nondestructive chronic polyarthritis. Jouvenne P, et al. **J Clin Immunol** 1996 Sep; 16(5):283–90
Naturally processed T cell epitopes from human glutamic acid decarboxylase identified using mice transgenic for the type 1 diabetes–associated human MHC class II allele, DRB1*0401. Wicker LS, et al. **J Clin Invest** 1996 Dec 1; 98(11):2597–603
Effect of diagnostic delay on disease severity and outcome in glomerulonephritis caused by anti–neutrophil cytoplasmic antibodies. Lal DP, et al. **J Clin Pathol** 1996 Nov;49(11):942–4
Detection of autoantibody against 97–kD antigen by immunoblot, but not by indirect immunofluorescence, in a patient with linear IgA bullous dermatosis. Ohno H, et al. **J Dermatol** 1996 Oct;23(10):665–9
Identification of autoantibody to melanocytes and characterization of vitiligo antigen in vitiligo patients. Park YK, et al. **J Dermatol Sci** 1996 Feb;11(2):111–20
Thyrotropin receptor antibodies in parotid saliva. Tumilasci OR, et al. **J Endocrinol Invest** 1996 Jul–Aug;19(7):412–4
Anti–actin autoantibodies in patients with chronic hepatitis C [letter] Chazouilleres O, et al. **J Hepatol** 1996 Apr; 24(4):513
Antibodies to E1 and E2/Protein X components of pyruvate dehydrogenase complex in sera of patients with primary biliary cirrhosis. Kuroda M, et al. **J Hepatol** 1996 Dec; 25(6):867–76
Acute hepatitis caused by alverine associated with anti–lamin A and C autoantibodies. Malka D, et al. **J Hepatol** 1997 Aug;27(2):399–403
Antimitochondrial antibody and primary biliary cirrhosis: can there be one without the other? [editorial] O'Donohue J, et al. **J Hepatol** 1996 Oct;25(4):574–7
Identification of cyclin A as a molecular target of antinuclear antibodies (ANA) in hepatic and non–hepatic autoimmune diseases. Strassburg CP, et al. **J Hepatol** 1996 Dec; 25(6):859–66
Anti–IL–8 autoantibodies in alveolar fluid from patients with the adult respiratory distress syndrome. Kurdowska A, et al. **J Immunol** 1996 Sep 15;157(6):2699–706
High resolution autoantibody detection by optimized protein G–horseradish peroxidase immunostaining in a western blotting assay. Hu GR, et al. **J Immunol Methods** 1997 Mar 28;202(2):113–21
Counterimmunoelectrophoresis with serum prediffusion: an improved method for the detection and identification of antibodies against extractable nuclear and cytoplasmic antigens. Walravens MJ, et al. **J Immunol Methods** 1997 Feb 14;201(1):89–98
Clinical relevance of anti–interferon antibodies in the serum of chronic hepatitis C patients treated with interferon–alpha. Bonino F, et al. **J Interferon Cytokine Res** 1997 Jul;17 Suppl 1:S35–8
Assays for antibodies to human interferon–alpha: the need for standardization. Schellekens H, et al. **J Interferon Cytokine Res** 1997 Jul;17 Suppl 1:S5–8
Development of an ELISA for rapid detection of anti–type VII collagen autoantibodies in epidermolysis bullosa acquisita. Chen M, et al. **J Invest Dermatol** 1997 Jan; 108(1):68–72
Mucosal and mucocutaneous (generalized) pemphigus vulgaris show distinct autoantibody profiles. Ding X, et al. **J Invest Dermatol** 1997 Oct;109(4):592–6
Noncomplement fixing, IgG4 autoantibodies predominate in patients with anti–epiligrin cicatricial pemphigoid. Hsu R, et al. **J Invest Dermatol** 1997 Oct;109(4):557–61
Prevalence and clinical significance of IgG isotype anti–beta 2–glycoprotein I antibodies in antiphospholipid syndrome: a comparative study with anticardiolipin antibodies. Sanmarco M, et al. **J Lab Clin Med** 1997 May; 129(5):499–506
Simple and sensitive test for thyroid hormone autoantibodies. Sunthornthepvarakul T, et al. **J Med Assoc Thai** 1996 Nov; 79(11):722–6
Systemic and anti–neuronal auto–antibodies in patients with paraneoplastic neurological disease. Moll JW, et al. **J Neurol** 1996 Jan;243(1):51–6
Association of antineural autoantibodies in a patient with paraneoplastic cerebellar syndrome and small cell lung carcinoma [letter] Honnorat J, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):425–6
Paraneoplastic retinopathy: a novel autoantibody reaction associated with small–cell lung carcinoma. Murphy MA, et al. **J Neuroophthalmol** 1997 Jun;17(2):77–83
Immunocytochemical detection of autoantibody deposits in Tzanck smears from patients with oral pemphigus. Mignogna MD, et al. **J Oral Pathol Med** 1997 Jul; 26(6):254–7
IDDM and autoimmune thyroid disease in the pediatric age group. Lorini R, et al. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:89–94 (32 ref.)
IgA deficiency causes false–negative endomysial antibody results in celiac disease. Rittmeyer C, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):504–6
Autoantibody screening for infertility: explaining the unexplained? Hatasaka HH, et al. **J Reprod Immunol** 1997 Sep;34(2):137–53 (30 ref.)
Polycystic ovary syndrome. An autoimmune disease? Rojansky N, et al. **J Reprod Med** 1997 Jun;42(6):325–8

Autoantibodies to the nucleolar organizer antigen NOR-90 in children with systemic rheumatic diseases [letter] Bitter T. **J Rheumatol** 1995 Dec;22(12):2371

Revisiting autoantibody profiles in systemic lupus erythematosus. Olhoffer IH, et al. **J Rheumatol** 1997 Feb; 24(2):297-302

Autoantibodies to C1 inhibitor in patients with lupus disease [letter] Ordi-Ros J, et al. **J Rheumatol** 1997 Sep; 24(9):1856-8

Studies on associations of antinuclear antibodies with antibodies to an uveitogenic peptide of retinal S antigen in children with uveitis. Rosenberg AM, et al. **J Rheumatol** 1996 Feb;23(2):370-3

Shared idiotypy among patients with myeloperoxidase-anti-neutrophil cytoplasmic autoantibody associated glomerulonephritis and vasculitis. Nachman PH, et al. **Lab Invest** 1996 Feb;74(2):519-27

Autoimmune enteropathy and villous atrophy in adults. Corazza GR, et al. **Lancet** 1997 Jul 12;350(9071):106-9

Antimitochondrial antibody profiles in primary biliary cirrhosis distinguish at early stages between a benign and a progressive course: a prospective study on 200 patients followed for 10 years. Klein R, et al. **Liver** 1997 Jun; 17(3):119-28

Anti-beta 2-glycoprotein I antibody: specificity and clinical significance. Koike T, et al. **Lupus** 1996 Oct;5(5):378-80 (15 ref.)

Systemic lupus erythematosus: clinical expression and anti-Ro/SS--a response in patients with and without lesions of subacute cutaneous lupus erythematosus. López-Longo FJ, et al. **Lupus** 1997;6(1):32-9

Increased incidence of anti-beta-amyloid autoantibodies secreted by Epstein-Barr virus transformed B cell lines from patients with Alzheimer's disease. Xu S, et al. **Mech Ageing Dev** 1997 Mar;94(1-3):213-22

Antibodies to GM1 and Gal(beta 1-3)GalNAc at the nodes of Ranvier in human and experimental autoimmune neuropathy. Thomas FP. **Microsc Res Tech** 1996 Aug 15; 34(6):536-43 (124 ref.)

Detection of antibody classes and subpopulations in myasthenia gravis patients using a new nonradioactive enzyme immunoassay. Gotti C, et al. **Muscle Nerve** 1997 Jul;20(7):800-8

Antibody panels in idiopathic polyneuropathy and motor neuron disease. Wolfe GI, et al. **Muscle Nerve** 1997 Oct; 20(10):1275-83

Autoantibodies, immunoglobulins, complement and circulating immune complexes in acute malaria. Jhaveri KN, et al. **Natl Med J India** 1997 Jan-Feb;10(1):5-7

Autoantibodies to glutamate receptor subunit GluR2 in nonfamilial olivopontocerebellar degeneration. Gahring LC, et al. **Neurology** 1997 Feb;48(2):494-500

Absence of anti-P/Q calcium channel antibody in the sera of patients with anti-Yo antibody-positive paraneoplastic cerebellar degeneration. Tanaka K, et al. **Neurology** 1997 Sep;49(3):895-6

Acetylcholine receptor autoantibody secretion by thymocytes: relationship to myasthenia gravis. Yoshikawa H, et al. **Neurology** 1997 Aug;49(2):562-7

Neuroblastoma-associated paraneoplastic syndrome with anti-Hu antineuronal antibodies presenting at the time of recurrence. Mpofu C, et al. **Pediatr Hematol Oncol** 1996 Jul-Aug;13(4):369-73

A patient with hepatitis B, antimicrosomal antibodies, and autoimmune hypothyroidism. Catapani WR, et al. **Postgrad Med J** 1996 Dec;72(854):752-3

Antibodies to beta 2 glycoprotein I: standardized immunoassay and a reference interval for healthy controls. Najmey SS, et al. **Proc Assoc Am Physicians** 1996 Nov; 108(6):467-72

Functional meaning of scintigraphic and echographic patterns, and of circulating anti-peroxidase antibodies in asymptomatic chronic thyroiditis. Rubello D, et al. **Q J Nucl Med** 1996 Dec;40(4):359-64

Anti-PL 4 in patients with systemic lupus erythematosus with severe renal and haematological disease. Marguerie C, et al. **QJM** 1997 May;90(5):347-52

Antibody to factor VIII in rheumatoid arthritis [letter] Bonnet C, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):871-3 (10 ref.)

Thyroid gland disorders in primary Sjögren's syndrome. Punzi L, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):809-14

Autoantibodies and target antigens in antineutrophil cytoplasmic antibody (ANCA)-associated vasculitides. Savige JA, et al. **Rheumatol Int** 1996;16(3):109-14

IgA antiendomysial antibodies on the umbilical cord in diagnosing celiac disease. Sensitivity, specificity, and comparative evaluation with the traditional kit. Carroccio A, et al. **Scand J Gastroenterol** 1996 Aug;31(8):759-63

Nuclear envelope protein autoantibodies in primary biliary cirrhosis. Courvalin JC, et al. **Semin Liver Dis** 1997 Feb; 17(1):79-90 (88 ref.)

Antimitochondrial antibodies in primary biliary cirrhosis. Leung PS, et al. **Semin Liver Dis** 1997 Feb;17(1):61-9 (72 ref.)

Autoantibodies against "nuclear dots" in primary biliary cirrhosis. Szostecki C, et al. **Semin Liver Dis** 1997 Feb; 17(1):71-8 (72 ref.)

Management of multiple-antibody-mediated hyperthyroidism in children with Down's syndrome. Bhowmick SK, et al. **South Med J** 1997 Mar;90(3):312-5

Control of hemorrhage and elimination of immune inhibitors in a female patient with a severe form of von Willebrand's disease. Marisavljević D, et al. **Srp Arh Celok Lek** 1997 Sep-Oct;125(9-10):311-6 **(Eng, Scc)**

PAICA: a method for characterizing platelet-associated antibodies--its application to the study of idiopathic thrombocytopenic purpura and to the detection of platelet-bound c7E3. Macchi L, et al. **Thromb Haemost** 1996 Dec;76(6):1020-9

Utilization of dilute Russell's viper venom time to detect autoantibodies against beta 2-glycoprotein I which express anticoagulant activity in the presence but not in the absence of exogenous phospholipids. Pengo V, et al. **Thromb Haemost** 1997 Jan;77(1):123-6

Autoantibodies against the protease inhibitor calpastatin: a new risk factor for venous thrombosis? Schlosser U, et al. **Thromb Haemost** 1997 Jan;77(1):11-3

Precise determination of TSH receptor antibody activity in serum containing bovine TSH (bTSH) binding antibody by absorption using denatured bTSH or sheep FSH. Inui T, et al. **Thyroid** 1996 Aug;6(4):295-9

Autoantibodies in conventional toxicity testing. Verdier F, et al. **Toxicology** 1997 Apr 11;119(1):51-8 (33 ref.)

Investigations of antiretinal antibodies in pigmentary retinopathy and other retinal degenerations. Heckenlively JR, et al. **Trans Am Ophthalmol Soc** 1996;94:179-200; discussion 200-6

Specific liver autoreactivity in schistosomiasis mansoni. Pereira LM, et al. **Trans R Soc Trop Med Hyg** 1997 May-Jun;91(3):310-4

Evaluation of a solid phase red cell adherence technique for platelet antibody screening. Lown JA, et al. **Transfus Med** 1991 Sep;1(3):163-7

Anti-Di(b) as a red cell autoantibody. Issitt PD, et al. **Transfusion** 1996 Sep;36(9):802-4

Antibody to the host cellular gene-derived epitope GOR-1 in liver transplant recipients with hepatitis C virus infection. Reiser M, et al. **Transplantation** 1997 Feb 27;63(4):609-12

Novel autoantibodies against podocytes in renal disease. Storch WB. **Verh Dtsch Ges Pathol** 1996;80:335

Kinetics of serum antiplatelet antibodies in experimental acute canine ehrlichiosis. Harrus S, et al. **Vet Immunol Immunopathol** 1996 May;51(1-2):13-20

Evaluation of a solid-phase test for erythrocyte antibody screening of pregnant women, patients and blood donors. Sallander S, et al. **Vox Sang** 1996;71(4):221-5

[Thyroid, ovarian and adrenal antibodies in female patients with autoimmune thyroiditis] Sterzl I, et al. **Cas Lek Cesk** 1997 Apr 16;136(8):249-52 (Eng. Abstr.) **(Cze)**

[Extra-thyroid autoantibodies in autoimmune thyroiditis] Sterzl I, et al. **Vnitr Lek** 1996 Nov;42(11):733-7 (Eng. Abstr.) **(Cze)**

[Thyroglobulin and microsome autoantibodies and their clinical significance in adult type I diabetics] Vondra K, et al. **Vnitr Lek** 1996 Nov;42(11):767-71 (Eng. Abstr.) **(Cze)**

[Significance of TSH receptor antibody determination] Gannage MH, et al. **J Med Liban** 1996;44(3):134-7 (Eng. Abstr.) **(Fre)**

[Diagnosis of autoimmune hepatitis] Manns MP, et al. **Dtsch Med Wochenschr** 1996 Nov 29;121(48):1503-7 (26 ref.) **(Ger)**

[Autoantibody pattern in scleritis and episcleritis] Zierhut M, et al. **Ophthalmologe** 1997 Feb;94(2):157-60 (Eng. Abstr.) **(Ger)**

[Relevance of antigastric autoantibodies in Helicobacter pylori gastritis] Faller G, et al. **Verh Dtsch Ges Pathol** 1996; 80:181-4 (Eng. Abstr.) **(Ger)**

[Autoimmunopathic lymphocytic hypophysitis] Saeger W. **Verh Dtsch Ges Pathol** 1996;80:324 **(Ger)**

[Morphology and clinical features of autoimmune thyroid diseases] Schröder S, et al. **Verh Dtsch Ges Pathol** 1996; 80:80-92 (50 ref.) (Eng. Abstr.) **(Ger)**

[Apoptosis in chronic gastritis: correlation of glandular apoptosis with antigastric autoantibodies] Steininger H, et al. **Verh Dtsch Ges Pathol** 1996;80:185-90 (Eng. Abstr.) **(Ger)**

[Autoimmune phenomena and musculoskeletal manifestations in hepatitis C viral infection] Bartal C, et al. **Harefuah** 1997 May 1;132(9):639-42 (41 ref.) **(Heb)**

[Polymyositis/dermatomyositis and autoantibodies] Hirakata M, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec; 19(6):588-93 (17 ref.) **(Jpn)**

[A case of systemic sclerosis associated with interstitial pneumonia with various autoantibodies: improvement by intravenous cyclophosphamide therapy] Ishiyama K, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Oct;19(5):512-8 (Eng. Abstr.) **(Jpn)**

[Interstitial lung disease in patients with connective tissue diseases] Hirakata M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:268-76 (Eng. Abstr.) **(Jpn)**

[Small-cell lung cancer and subacute sensory neuropathy in a patient positive for the anti-Hu antigen] Okishio K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul; 34(7):816-21 (Eng. Abstr.) **(Jpn)**

[Attrition of goiter and elimination of autoantibody to the thyroid caused by treatment of acromegaly: a case study] Sakamoto M, et al. **Nippon Naika Gakkai Zasshi** 1997 May 10;86(5):835-7 **(Jpn)**

[Detection and characterization of anti-red cell autoantibodies in autoimmune hemolytic anemias] Kamesaki T, et al. **Nippon Rinsho** 1996 Sep;54(9):2430-5 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Axonal motor neuropathy associated with anti-SGPG antibody] Hashiguchi S, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):224-7 (Eng. Abstr.) **(Jpn)**

[Anti-ganglioside antibodies in CIDP and related disorders] Saito T, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1376 **(Jpn)**

[A case of chronic inflammatory demyelinating neuropathy associated with antibodies to gangliosides GM1 and GalNAc-GD1a] Tsukaguchi M, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):228-32 (Eng. Abstr.) **(Jpn)**

[Sjögren's syndrome and anti-Ro syndrome] Tanaka M. **Ryoikibetsu Shokogun Shirizu** 1996;(15):379-82 (17 ref.) **(Jpn)**

[Antineutrophil cytoplasmic antibody (ANCA) and vasculitis] Yoshida M. **Ryumachi** 1995 Dec;35(6):934-42 (30 ref.) **(Jpn)**

[Prevalence of autoantibodies in serum of healthy persons over 85 years of age] Potocka-Płazak K, et al. **Przegl Lek** 1995;52(11):544-6 (Eng. Abstr.) **(Pol)**

[Thyroid anti-membrane antibodies and antithyroglobulin antibodies of children in the city and province of Wrocław] Wartenberg J, et al. **Wiad Lek** 1994 Nov-Dec; 47(21-24):822-6 (Eng. Abstr.) **(Pol)**

[Electro-optic method of recording antigen-antibody interactions in detection of antiplatelet antibodies in hemorrhagic thrombocytopathies] Sirota AI, et al. **Klin Lab Diagn** 1993 May-Jun;(3):50-4 (Eng. Abstr.) **(Rus)**

[Antibodies to collagen type I and fibronectin in patients with scleroderma systemic] Taova MK, et al. **Klin Med (Mosk)** 1996;74(7):50-1 (Eng. Abstr.) **(Rus)**

[Significance of autoimmune reactions in the development of postoperative uveitis in patients with artificial lenses] Krichevskaia GI, et al. **Vestn Oftalmol** 1996 Sep-Oct; 112(5):27-9 (Eng. Abstr.) **(Rus)**

[Guillain-Barre syndrome and antibodies to ganglioside GM1. Case report] Trišković I, et al. **Srp Arh Celok Lek** 1996 Jul-Aug;124(7-8):210-3 (Eng. Abstr.) **(Scc)**

[Autoimmune mechanisms in the pathogenesis of neurologic paraneoplastic diseases] Pelikán F, et al. **Bratisl Lek Listy** 1997 Jun;98(6):335-8 (Eng. Abstr.) **(Slo)**

[Autoimmune cholangitis or primary biliary cirrhosis without antimitochondrial antibodies?] Saló J, et al. **Gastroenterol Hepatol** 1997 Jan;20(1):5-10 (Eng. Abstr.) **(Spa)**

BIOSYNTHESIS

Arteritis in a novel congenic strain of mice derived from MRL/Lpr lupus mice: genetic dissociation from glomerulonephritis and limited autoantibody production. Nose M, et al. **Am J Pathol** 1996 Nov;149(5):1763-9

ZP3 peptide vaccine that induces antibody and reversible infertility without autoimmune oophoritis. Tung KS, et al. **Am J Reprod Immunol** 1996 Mar;35(3):181-3

Carbohydrate recognition by Mycoplasma pneumoniae and pathologic consequences. Feizi T, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S133-6 (34 ref.)

Interferon-alpha treatment and formation of factor VIII antibodies [letter; comment] Makris M, et al. **Ann Intern Med** 1997 May 15;126(10):829; discussion 829-30. Comment on: Ann Intern Med 1996 Aug 15;125(4):297-9.

Interferon-alpha treatment and formation of factor VIII antibodies [letter; comment] Stricker RB. **Ann Intern Med** 1997 May 15;126(10):829; discussion 829-30. Comment on: Ann Intern Med 1996 Aug 15;125(4):297-9.

Unique site of autoantibody production in Fas-deficient mice. Jacobson BA, et al. **Ann N Y Acad Sci** 1997 Apr 5; 815:218-29 (43 ref.)

Microbial antigens can elicit autoantibody production. A potential pathway to autoimmune disease. Kuo P, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:230-6 (29 ref.)

Prevention of autoantibody production in lpr/lpr mice by transgenic expression of Fas on B cells. Shinohara N, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:489-91

Production of autoantibodies against DNA and collagen after inoculation of rabbits with Trypanosoma equiperdum. Hiepe F, et al. **Appl Parasitol** 1996 Dec;37(4):266-74

Cytokine gene expression and autoantibody production in Sjögren's syndrome of MRL/lpr mice. Hayashi Y, et al. **Autoimmunity** 1996;23(4):269-77

Induction of autoimmune myocarditis in interleukin-2-deficient mice. Grässl G, et al. **Circulation** 1997 Apr 1;95(7):1773-6

Pathogenicity of human anti-platelet factor 4 (PF4)/heparin in vivo: generation of mouse anti-PF4/heparin and induction of thrombocytopenia by heparin. Blank M, et al. **Clin Exp Immunol** 1997 May;108(2):333-9

Intrastructural help in diversification of humoral autoimmune responses [editorial] Fatenejad S, et al. **Clin Exp Immunol** 1996 Oct;106(1):1-4 (35 ref.)

Raised anti-endothelial cell autoantibodies (AECA), but not anti-neutrophil cytoplasmic autoantibodies (ANCA), in recurrent oral ulceration: modulation of AECA binding by tumour necrosis factor-alpha (TNF-alpha) and

interferon-gamma (IFN-gamma). Healy CM, et al. **Clin Exp Immunol** 1996 Dec;106(3):523-8

Differential effects of sex hormones on autoantibody production and proteinuria in chronic graft-versus-host disease-induced experimental lupus nephritis. Van Griensven M, et al. **Clin Exp Immunol** 1997 Feb; 107(2):254-60

Superantigens and experimental SLE induced by idiotypic dysregulation. Baharav E, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):359-66

Systemic bias of cytokine production toward cell-mediated immune regulation in IDDM and toward humoral immunity in Graves' disease. Kallmann BA, et al. **Diabetes** 1997 Feb;46(2):237-43

Autoantibodies against sympathetic ganglia and evidence of cardiac sympathetic dysinnervation in newly diagnosed and long-term IDDM patients. Schsnell O, et al. **Diabetologia** 1996 Aug;39(8):970-5

CD40-mediated stimulation of B1 and B2 cells: implication in autoantibody production in murine lupus. Kaneko Y, et al. **Eur J Immunol** 1996 Dec;26(12):3061-5

Dysfunction of immune system and induction of autoantibodies to liver antigens by neonatal thymectomy in mice. Myozaki M, et al. **Hiroshima J Med Sci** 1996 Sep; 45(3):75-83

The effects of T cell subpopulations and recombinant interleukin (IL)-2 on peripheral B cell function in patients with myasthenia gravis. Zhang J, et al. **Hum Antibodies** 1997;8(2):90-4

Do DNA vaccines induce autoimmune disease? Mor G, et al. **Hum Gene Ther** 1997 Feb 10;8(3):293-300

Infection of C3HeB/FeJ mice with the docile strain of lymphocytic choriomeningitis virus induces autoantibodies specific for erythrocyte Band 3. Mazza G, et al. **Immunology** 1997 Jun;91(2):239-45

Antibody response in Lewis rats injected with myelin oligodendrocyte glycoprotein derived peptides. Ichikawa M, et al. **Int Immunol** 1996 Nov;8(11):1667-74

Anti-M2 muscarinic receptor autoantibodies and idiopathic dilated cardiomyopathy. Fu ML. **Int J Cardiol** 1996 May; 54(2):127-35 (57 ref.)

Beta 1-adrenoceptor autoimmunity in cardiomyopathy. Magnusson Y, et al. **Int J Cardiol** 1996 May;54(2):137-41 (23 ref.)

Endogenously elicited antibodies to platelet derived growth factor-BB and platelet cytosolic protein inhibit aortic lesion development in the cholesterol-fed rabbit. Rutherford C, et al. **Int J Exp Pathol** 1997 Feb;78(1):21-32

Humoral mechanisms in T cell vaccination: induction and functional characterization of anti-lymphocytic autoantibodies. Herkel J, et al. **J Autoimmun** 1997 Apr; 10(2):137-46

Antiislet autoantibodies usually develop sequentially rather than simultaneously. Yu L, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4264-7

Characterization of a germline Vk gene encoding cationic anti-DNA antibody and role of receptor editing for development of the autoantibody in patients with systemic lupus erythematosus. Suzuki N, et al. **J Clin Invest** 1996 Oct 15;98(8):1843-50

Genetic linkage of IgG autoantibody production in relation to lupus nephritis in New Zealand hybrid mice. Vyse TJ, et al. **J Clin Invest** 1996 Oct 15;98(8):1762-72

Proteins phosphorylated during stress-induced apoptosis are common targets for autoantibody production in patients with systemic lupus erythematosus. Utz PJ, et al. **J Exp Med** 1997 Mar 3;185(5):843-54

Autoantibodies to murine type II collagen in collagen-induced arthritis: a comparison of susceptible and nonsusceptible strains. Brand DD, et al. **J Immunol** 1996 Dec 1;157(11):5178-84

Characteristic T helper 2 T cell cytokine abnormalities in autoimmune lymphoproliferative syndrome, a syndrome marked by defective apoptosis and humoral autoimmunity. Fuss IJ, et al. **J Immunol** 1997 Feb 15;158(4):1912-8

Induction of blister-causing antibodies by a recombinant full-length, but not the extracellular, domain of the pemphigus vulgaris antigen (desmoglein 3). Memar O, et al. **J Immunol** 1996 Oct 1;157(7):3171-7

The B cell response to autologous type II collagen: biased V gene repertoire with V gene sharing and epitope shift. Mo JA, et al. **J Immunol** 1996 Sep 15;157(6):2440-8

Autoreactive T cell clones from patients with systemic lupus erythematosus support polyclonal autoantibody production. Takeno M, et al. **J Immunol** 1997 Apr 1; 158(7):3529-38

Backcross analysis of genes linked to autoantibody production in New Zealand White mice. Vyse TJ, et al. **J Immunol** 1996 Sep 15;157(6):2719-27

A 17-Mer self-peptide of acetylcholine receptor binds to B cell MHC class II, activates helper T cells, and stimulates autoantibody production and electrophysiologic signs of myasthenia gravis. Yoshikawa H, et al. **J Immunol** 1997 Aug 1;159(3):1570-7

Autoantibodies following parvovirus B19 infection. Kerr JR, et al. **J Infect** 1996 Jan;32(1):41-7

Clinical investigation of the immunogenicity of interferon-alpha 2a. Ryff JC. **J Interferon Cytokine Res** 1997 Jul;17 Suppl 1:S29-33

Corneal infection with herpes simplex virus type 1 leads to autoimmune responses in rats. Clark L, et al. **J Neurosci Res** 1996 Sep 15;45(6):770-5

Interleukin-10 promotes anti-collagen antibody production in type I diabetic peripheral B lymphocytes. Stein SH, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):189-95

Production of antiendomysial antibodies after in-vitro gliadin challenge of small intestine biopsy samples from patients with coeliac disease [see comments] Picarelli A, et al. **Lancet** 1996 Oct 19;348(9034):1065-7. Comment in: Lancet 1996 Oct 19;348(9034):1046-7.

Production of anti-erythrocyte antibodies by leukemic and nonleukemic B cells in chronic lymphocytic leukemia patients. Centola M, et al. **Leuk Lymphoma** 1996 Feb; 20(5-6):465-69

Ultraviolet light-induced keratinocyte apoptosis: a potential mechanism for the induction of skin lesions and autoantibody production in LE. Casciola-Rosen L, et al. **Lupus** 1997;6(2):175-80 (52 ref.)

Humoral response in spontaneous and experimental autoimmunity to the ribosomal P proteins [letter] Gordon TP, et al. **Lupus** 1996 Aug;5(4):340-1

Defective phagocytosis of apoptotic cells: possible explanation for the induction of autoantibodies in SLE. Kalden JR. **Lupus** 1997;6(3):326-7

During canine viscero-cutaneous leishmaniasis the anti-Hsp70 antibodies are specifically elicited by the parasite protein. Quijada L, et al. **Parasitology** 1996 Mar; 112 (Pt 3):277-84

Instability of natural antibody repertoires in systemic lupus erythematosus patients, revealed by multiparametric analysis of serum antibody reactivities. Ferreira C, et al. **Scand J Immunol** 1997 Mar;45(3):331-41

Autoantibody production in healthy elderly people is not promoted by interleukin-10 although this cytokine is expressed in them by a peculiar CD8+CD3+ large granular cell subpopulation. Llorente L, et al. **Scand J Immunol** 1997 Apr;45(4):401-7

Simultaneous occurrence of human antibodies directed against fibrinogen, thrombin, and factor V following exposure to bovine thrombin: effects on blood coagulation, protein C activation and platelet function. Chouhan VD, et al. **Thromb Haemost** 1997 Feb;77(2):343-9

IFN-gamma has a protective role against thyroid-specific autoantibody production in severe combined immunodeficient (SCID) mice xenografted with Graves' thyroid tissue. Yoshikawa N, et al. **Thyroid** 1996 Oct; 6(5):437-43

Immunodominant autoepitopes. Mechanisms of autoantibody induction in autoimmune diseases?] Dörner T, et al. **Dtsch Med Wochenschr** 1996 Oct 11;121(41):1267-70 (18 ref.) **(Ger)**

[Molecular mimicry and mechanisms of autoantibody production] Miyazawa M. **Nippon Rinsho** 1997 Jun; 55(6):1370-6 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Autoantibodies against platelets in thrombocytopenias in children] Anfimova OM, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):636-9 **(Rus)**

BLOOD

Detection of anti-myeloperoxidase antibodies in the serum of patients with type 1 diabetes mellitus. Accardo-Palumbo A, et al. **Acta Diabetol** 1996 Jul;33(2):103-7

Soluble CD8 antigen, stimulated C-peptide and islet cell antibodies are predictors of insulin requirement in newly diagnosed patients with unclassifiable diabetes. Di Bonito P, et al. **Acta Diabetol** 1996 Sep;33(3):220-4

HLA class II is associated with the frequency of glutamic acid decarboxylase M(r) 65,000 autoantibodies in Japanese patients with insulin-dependent diabetes mellitus. Kasuga A, et al. **Acta Diabetol** 1996 Jul;33(2):108-13

An immunological and genetic study of patients with gestational diabetes mellitus. Lapolla A, et al. **Acta Diabetol** 1996 Jul;33(2):139-44

Murine monoclonal glutamic acid decarboxylase (GAD)65 antibodies recognize autoimmune-associated GAD epitope regions targeted in patients with type 1 diabetes mellitus and stiff-man syndrome. Ziegler B, et al. **Acta Diabetol** 1996 Sep;33(3):225-31

Comparative study of three methods to detect free plasma antiplatelet antibodies. Gonzalez-Conejero R, et al. **Acta Haematol** 1996;96(3):135-9

Detection of bullous pemphigoid antibodies by means of synthetic peptides as antigenic epitopes. Husz S, et al. **Acta Microbiol Immunol Hung** 1996;43(4):339-43

Autoimmunity and ALS: studies on antibodies to acetylcholinesterase in sera. Häggström B, et al. **Acta Neurol Scand** 1997 Feb;95(2):111-4

Thyroid autoantibodies and thyroid function in patients with pancreatic adenocarcinoma. Fyssas I, et al. **Acta Oncol** 1997;36(1):65-8

Down syndrome and coeliac disease: usefulness of antigliadin and antiendomysium antibodies. Bonamico M, et al. **Acta Paediatr** 1996 Dec;85(12):1503-5

Autoimmune component in individuals during immune response to inactivated combined vaccine against Q fever. Krutitskaya L, et al. **Acta Virol** 1996 Sep;40(4):173-7

Autoantibodies to CD4 in HIV type 1-exposed seronegative individuals. Burastero SE, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):273-80

Pitfalls of anticytokine autoantibody ELISA: false-positive results in Crohn's disease with hyperimmunoglobulinemia [letter] Kirman I, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2258-9

Buffer may be the critical factor in measurement of anti-prothrombin antibody on a gamma-ray-irradiated plate by enzyme-linked immunosorbent assay. Matsuda J, et al. **Am J Hematol** 1996 Dec;53(4):242-4

The antiphospholipid/cofactor syndromes: a primary variant with antibodies to beta 2-glycoprotein-I but no antibodies detectable in standard antiphospholipid assays. Cabral AR, et al. **Am J Med** 1996 Nov;101(5):472-81

Test performance in systemic sclerosis: anti-centromere and anti-Scl-70 antibodies. Spencer-Green G, et al. **Am J Med** 1997 Sep;103(3):242-8 (52 ref.)

Insulin-dependent diabetes mellitus associated with autoimmune thyroiditis and rheumatoid arthritis. Yamato E, et al. **Am J Med Sci** 1997 Jan;313(1):64-6

The presence of antithyroid antibodies in euthyroid patients with unexplained infertility and tubal obstruction. Geva E, et al. **Am J Reprod Immunol** 1997 Feb;37(2):184-6

Detection of antiendometrial antibodies in patients with endometriosis by cell ELISA. Hatayama H, et al. **Am J Reprod Immunol** 1996 Feb;35(2):118-22

Anti-endometrial autoantibodies in women with a diagnosis of infertility. Palacio JR, et al. **Am J Reprod Immunol** 1997 Aug;38(2):100-5

Antibodies to endometrial transferrin and alpha 2-Heremans Schmidt (HS) glycoprotein in patients with endometriosis [published erratum appears in Am J Reprod Immunol 1997 Mar;37(3):277] Pillai S, et al. **Am J Reprod Immunol** 1996 May;35(5):483-94

An immunoassay for anti-neuronal antibodies associated with involuntary repetitive movement disorders. Laurino JP, et al. **Ann Clin Lab Sci** 1997 May-Jun;27(3):230-5

Fibroblast growth factor-like autoantibodies in plasma from patients with multiple endocrine neoplasia type 1 and prolactinoma. Zimering MB, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:520-3

Immunoassays fail to detect antibodies against neuronal calcium channels in amyotrophic lateral sclerosis serum [see comments] Arsac C, et al. **Ann Neurol** 1996 Nov; 40(5):695-700. Comment in: Ann Neurol 1996 Nov;40(5):691-3.

A controlled study of intravenous immunoglobulin in demyelinating neuropathy with IgM gammopathy. Dalakas MC, et al. **Ann Neurol** 1996 Nov;40(5):792-5

Lambert-Eaton myasthenic syndrome immunoglobulins react with multiple types of calcium channels in small-cell lung carcinoma. Meriney SD, et al. **Ann Neurol** 1996 Nov; 40(5):739-49

Amyotrophic lateral sclerosis and antibodies to voltage-gated calcium channels--new doubts [editorial; comment] Vincent A, et al. **Ann Neurol** 1996 Nov;40(5):691-3 (15 ref.). Comment on: Ann Neurol 1996 Nov;40(5):695-700. Comment on: Ann Neurol 1996 Nov;40(5):701-6.

Assessment of anti-endothelial cell antibodies in systemic sclerosis and Sjögren's syndrome. Hebbar M, et al. **Ann Rheum Dis** 1997 Apr;56(4):230-4

Anti-Ro/SS-A and anti-La/SS-B antibodies associated with cardiac involvement in childhood systemic lupus erythematosus. Oshiro AC, et al. **Ann Rheum Dis** 1997 Apr; 56(4):272-4

Annexin V autoantibodies in rheumatoid arthritis. Rodríguez-García MI, et al. **Ann Rheum Dis** 1996 Dec; 55(12):895-900

Anti-p53 antibodies in serum of smokers and head and neck cancer patients. Wollenberg B, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):413-8

Vasculitis associated with levamisole and circulating autoantibodies [letter] [see comments] Laux-End R, et al. **Arch Dis Child** 1996 Oct;75(4):355-6. Comment in: Arch Dis Child 1997 Mar;76(3):289.

Circulating autoantibodies recognizing peroxidase-oxidized low density lipoprotein. Evidence for new antigenic epitopes formed in vivo independently from lipid peroxidation. Seccia M, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):134-40

Autoantibodies against oxidized LDL do not predict atherosclerotic vascular disease in non-insulin-dependent diabetes mellitus. Uusitupa MI, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct;16(10):1236-42

Two major autoantigen-antibody systems of the mitotic spindle apparatus. Andrade LE, et al. **Arthritis Rheum** 1996 Oct;39(10):1643-53

Interrelationship of major histocompatibility complex class II alleles and autoantibodies in four ethnic groups with various forms of myositis. Arnett FC, et al. **Arthritis Rheum** 1996 Sep;39(9):1507-18

Antibodies to beta2-glycoprotein I in patients with systemic lupus erythematosus: comment on the articles by Tsutsumi et al and Roubey et al [letter; comment] Inanç M, et al. **Arthritis Rheum** 1997 Jul;40(7):1366-8. Comment on: Arthritis Rheum 1996 Sep;39(9):1466-74. Comment on: Arthritis Rheum 1996 Sep;39(9):1606-7.

Identification of autoantibodies to the I protein of the heterogeneous nuclear ribonucleoprotein complex in patients with systemic sclerosis. Montecucco C, et al. **Arthritis Rheum** 1996 Oct;39(10):1669-76

Development of the anti-Ro autoantibody response in a patient with systemic lupus erythematosus. Scofield RH, et al. **Arthritis Rheum** 1996 Oct;39(10):1664-8

Novel autoantibodies against muscle-cell membrane proteins in patients with myositis. Stuhlmüller B, et al. **Arthritis Rheum** 1996 Nov;39(11):1860-8

High frequency of autoantibodies to insoluble cellular antigens in patients with chronic fatigue syndrome. von

Mikecz A, et al. **Arthritis Rheum** 1997 Feb;40(2):295–305
Increased levels of autoantibodies to cardiolipin and oxidised low density lipoprotein are inversely associated with plasma vitamin C status in cigarette smokers. Fickl H, et al. **Atherosclerosis** 1996 Jul;124(1):75–81
Autoepitope mapping of the centrosome autoantigen PCM-1 using scleroderma sera with anticentrosome autoantibodies. Bao L, et al. **Autoimmunity** 1995;22(4):219–28
Peripheral B lymphocyte repertoire to mitochondrial antigen in primary biliary cirrhosis--positive correlation between the disease activity and the frequency of circulating B lymphocytes specific for pyruvate dehydrogenase complex. Nakamura M, et al. **Autoimmunity** 1995;21(4):253–62
Amino acid sequence of a tryptic peptide of human thyroglobulin reactive with sera of patients with thyroid diseases. Saboori AM, et al. **Autoimmunity** 1995;22(2):87–94
Anti-P53 antibodies in the serum of patients with paraneoplastic disease of the nervous system. Gregson NA, et al. **Biochem Soc Trans** 1997 May;25(2):171S
Endogenous and exogenous antioxidants and the generation of antigenic epitopes in oxidatively-modified LDL. Bellomo G, et al. **Biofactors** 1997;6(2):91–8 (31 ref.)
Quantitative determination of oLAb titers in various animal species. Tatzber F, et al. **Biofactors** 1997;6(2):125–30
Leukocytes and organ-nonspecific autoantibodies in schizophrenics and their siblings: markers of vulnerability or disease? Zorrilla EP, et al. **Biol Psychiatry** 1996 Nov 1;40(9):825–33
Anti-cytokine autoantibodies: epiphenomenon or critical modulators of cytokine action. van der Meide PH, et al. **Biotherapy** 1997;10(1):39–48 (94 ref.)
Thymocyte Fas expression is dysregulated in myasthenia gravis patients with anti-acetylcholine receptor antibody. Moulian N, et al. **Blood** 1997 May 1;89(9):3287–95
Platelet antibody testing in idiopathic thrombocytopenic purpura [letter] Raife TJ, et al. **Blood** 1997 Feb 1; 89(3):1112–4
Recirculated normal platelets adhere to surfaces coated with plasma from patients with immune thrombocytopenia. Azerad MA, et al. **Blood Coagul Fibrinolysis** 1997 Jan; 8(1):59–64
Activated protein C resistance in patients with anti-beta 2 glycoprotein I antibodies. Martinuzzo M, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):702–4
Distribution of serum autoantibodies against G-protein-coupled cardiovascular receptors in Japanese patients with cardiomyopathy. Matsui S, et al. **Blood Press Suppl** 1996;3:28–30
Anti-mitosin antibodies in a patient with chronic graft-versus-host disease after allogeneic bone marrow transplantation. Muro Y, et al. **Bone Marrow Transplant** 1997 May;19(9):951–3
Immunofluorescence-negative bullous pemphigoid sera contain antibodies mostly directed against the 180 kDa bullous pemphigoid antigen (BPAg2) [letter] Ghohestani RF, et al. **Br J Dermatol** 1997 Aug;137(2):306–7
Four Japanese patients with cicatricial pemphigoid showing both IgG and IgA antibodies against the 180 kDa bullous pemphigoid antigen [letter] Hashimoto T, et al. **Br J Dermatol** 1997 Aug;137(2):305–6
The presence of anti-basement membrane zone antibodies in the sera of patients with non-bullous lupus erythematosus. Ishikawa O, et al. **Br J Dermatol** 1997 Feb; 136(2):222–6
Autoantibodies to bullous pemphigoid and epidermolysis bullosa acquisita antigens in an infant. Kawachi Y, et al. **Br J Dermatol** 1996 Sep;135(3):443–7
International study to compare antigen-specific methods used for the measurement of antiplatelet autoantibodies. Berchtold P, et al. **Br J Haematol** 1997 Mar;96(3):477–83
Autoantibodies and anti-mouse antibodies in thrombocytopenic patients as assessed by different MAIPA assays. Clofent-Sanchez G, et al. **Br J Haematol** 1996 Oct; 95(1):153–60
Unilateral ocular cicatricial pemphigoid with circulating IgA and IgG autoantibodies reactive with the 180 kD bullous pemphigoid antigen [letter] Matsuzaki T, et al. **Br J Ophthalmol** 1996 Aug;80(8):769
Association between ongoing anti-C1q antibody production in peripheral blood and proliferative nephritis in patients with active systemic lupus erythematosus. Gunnarsson I, et al. **Br J Rheumatol** 1997 Jan;36(1):32–7
Systemic lupus erythematosus, thrombocytopenia, microangiopathic haemolytic anaemia and anti-CD36 antibodies [clinical conference] al-Shahi R, et al. **Br J Rheumatol** 1997 Jul;36(7):794–8
Circulating antibodies against p53 protein in patients with ovarian carcinoma. Correlation with clinicopathologic features and survival. Angelopoulou K, et al. **Cancer** 1996 Nov 15;78(10):2146–52
Autoantibodies to p53 in ovarian cancer patients and healthy women: a comparison between whole p53 protein and 18-mer peptides for screening purposes. Vennegoor CJ, et al. **Cancer Lett** 1997 Jun 3;116(1):93–101
Autoantibodies to Auerbach's plexus in achalasia. Storch WB, et al. **Cell Mol Biol (Noisy-le-grand)** 1995 Dec; 41(8):1033–8
Short-term hemodynamic effects of immunoadsorption in dilated cardiomyopathy [see comments] Dörffel WV, et al. **Circulation** 1997 Apr 15;95(8):1994–7. Comment in: Circulation 1997 Apr 15;95(8):1979–80.
Anti-triiodothyronine auto-antibody interference in recent free thyroid hormone assays. Sapin R, et al. **Clin Biochem** 1996 Feb;29(1):89–92
False-negative immunoassay results for cardiac troponin I probably due to circulating troponin I autoantibodies [letter] Bohner J, et al. **Clin Chem** 1996 Dec;42(12):2046
Measurement of antibodies against glutamic acid decarboxylase 65 (GADA): two new 125I assays compared with [35S]GAD 65-ligand binding assay [see comments] Borg H, et al. **Clin Chem** 1997 May;43(5):779–85. Comment in: Clin Chem 1997 May;43(5):705–7.
Thyroglobulin IRMA Pasteur immunoassay: sensitivity of the assay and interference from thyroglobulin autoantibodies [letter; comment] Calzolari C, et al. **Clin Chem** 1997 Feb;43(2):413–5. Comment on: Clin Chem 1996 Jan;42(1):164–73. Comment on: Clin Chem 1996 May;42(5):661–3.
Effects of incubation conditions on ELISA for autoantibodies against oxidized low-density lipoprotein. Craig WY, et al. **Clin Chem** 1996 Oct;42(10):1709–11
Modified and improved anti-acetylcholine receptor (AchR) antibody assay: comparison of analytical and clinical performance with conventional anti-AChR antibody assay. Ferrero B, et al. **Clin Chem** 1997 May;43(5):824–31
Radioimmunoprecipitation assay for glutamic acid decarboxylase antibodies evaluated clinically with sera from patients with insulin-dependent diabetes mellitus. Ohta M, et al. **Clin Chem** 1996 Dec;42(12):1975–8
Antibodies against [125I] testosterone in patient's serum: a problem for the laboratory and the patient [letter] Torjesen PA, et al. **Clin Chem** 1996 Dec;42(12):2047–8
Anti-galectin-1 autoantibodies in serum of patients with neurological diseases. Lutomski D, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):131–8
Inflammatory myopathy, bronchiolitis obliterans/organizing pneumonia, and anti-Jo-1 antibodies--an interesting association. Kalenian M, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):236–40
Celiac disease and hypoparathyroidism: cross-reaction of endomysial antibodies with parathyroid tissue. Kumar V, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):143–6
Anti-TPO and anti-thyroglobulin antibodies or anti-TPO antibodies alone? [letter; comment] Dorizzi RM, et al. **Clin Endocrinol (Oxf)** 1997 Feb;46(2):235–6. Comment on: Clin Endocrinol (Oxf) 1996 Feb;44(2):129–31.
High incidence of positive autoantibodies against thyroid peroxidase and thyroglobulin in patients with sarcoidosis. Nakamura H, et al. **Clin Endocrinol (Oxf)** 1997 Apr; 46(4):467–72
The prevalence of affective disorder and in particular of a rapid cycling of bipolar disorder in patients with abnormal thyroid function tests. Oomen HA, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):215–23
Adrenal autoantibodies and organ-specific autoimmunity in patients with Addison's disease. Söderbergh A, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):453–60
Isotype distribution and clinical significance of antibodies to cardiolipin, phosphatidic acid, phosphatidylinositol and phosphatidylserine in systemic lupus erythematosus: prospective analysis of a series of 92 patients. López-Soto A, et al. **Clin Exp Rheumatol** 1997 Mar-Apr;15(2):143–9
Elevated serum eosinophilic cationic protein (ECP) and expression of pemphigus-like antibodies in a case of eosinophilic fasciitis [letter] Manolios N, et al. **Clin Exp Rheumatol** 1997 Mar-Apr;15(2):223–4
Levels of lupus autoantibodies in pregnant SLE patients: correlations with disease activity and pregnancy outcome. Tomer Y, et al. **Clin Exp Rheumatol** 1996 May-Jun; 14(3):275–80
Thyroid peroxidase autoantibodies of IgE class in thyroid autoimmunity. Guo J, et al. **Clin Immunol Immunopathol** 1997 Feb;82(2):157–62
Antikeratin antibodies (AKA) negativity in primary biliary cirrhosis (PBC): confirmation of their specificity in the diagnosis of rheumatoid arthritis (RA) [letter] Fusconi M, et al. **Clin Rheumatol** 1996 Nov;15(6):617–8
Autoantibodies in leprosy sera. Guedes Barbosa LS, et al. **Clin Rheumatol** 1996 Jan;15(1):26–8
Presence of autoantibodies in the serum of mice infected with Yersinia enterocolitica O:3. Falcão DP, et al. **Contrib Microbiol Immunol** 1995;13:195–8
Differences in the anti-basement membrane zone antibodies in ocular and pseudo-ocular cicatricial pemphigoid. Bhol K, et al. **Curr Eye Res** 1996 May;15(5):521–32
Localized lipoatrophia with persistent circulating autoantibodies and partial immunoglobulin A deficiency in a child. Trémeau-Martinage C, et al. **Dermatology** 1996; 192(4):353–7
Poor beta-cell function after the clinical manifestation of type 1 diabetes in children initially positive for islet cell specific autoantibodies. The Childhood Diabetes in Finland Study Group. Komulainen J, et al. **Diabet Med** 1997 Jul; 14(7):532–7
Nicotinamide's effects on glucose metabolism in subjects at risk for IDDM. Greenbaum CJ, et al. **Diabetes** 1996 Nov; 45(11):1631–4
Autoantibodies to protein tyrosine phosphatase-like proteins in type I diabetes. Overlapping specificities to phogrin and ICA512/IA-2. Kawasaki E, et al. **Diabetes** 1996 Oct; 45(10):1344–9
Disease-associated antibodies in offspring of mothers with IDDM. Martikainen A, et al. **Diabetes** 1996 Dec; 45(12):1706–10
Combined analysis and single-step detection of GAD65 and IA2 autoantibodies in IDDM can replace the histochemical islet cell antibody test. Wiest-Ladenburger U, et al. **Diabetes** 1997 Apr;46(4):565–71
Autoantibodies to IA-2 in IDDM: location of major antigenic determinants. Zhang B, et al. **Diabetes** 1997 Jan;46(1):40–3
Relationship between the incidence of childhood IDDM and the frequency of ICA positivity in nondiabetic children in the general population [letter] Adojaan B, et al. **Diabetes Care** 1996 Dec;19(12):1452–4
Fluctuations in GAD65 antibodies after clinical diagnosis of IDDM in young children. Batstra MR, et al. **Diabetes Care** 1997 Apr;20(4):642–4
Validity of screening for individuals at risk for type I diabetes by combined analysis of antibodies to recombinant proteins. Christie MR, et al. **Diabetes Care** 1997 Jun;20(6):965–70
Proinsulin secretion during the first 3 years after diagnosis in diabetic patients with and without islet cell antibodies. Gottsäter A, et al. **Diabetes Care** 1996 Jun;19(6):659–62
Antibodies to GAD in chronic hepatitis C patients [letter] Hiéronimus S, et al. **Diabetes Care** 1997 Jun;20(6):1044
Vaccines and the appearance of islet cell antibodies in offspring of diabetic parents. Results from the BABY-DIAB Study [letter] Hummel M, et al. **Diabetes Care** 1996 Dec;19(12):1456–7
Autoantibody against ICA512 did not improve test sensitivity for slowly progressive IDDM in adults [letter] Kasuga A, et al. **Diabetes Care** 1997 Apr;20(4):679–80
Presence of anti-pituitary antibodies and GAD antibodies in NIDDM and IDDM. Kobayashi T, et al. **Diabetes Care** 1997 May;20(5):864–6
GAD antibodies seldom disappear in slowly progressive IDDM [letter] Kobayashi T, et al. **Diabetes Care** 1996 Sep; 19(9):1031
Do GAD antibodies at IDDM onset predict the clinical course of diabetes in children? [letter; comment] Kordonouri O, et al. **Diabetes Care** 1996 Aug;19(8):901–2 . Comment on: Diabetes Care 1996 Jan;19(1):74–5.
Distinct genetic and immunological features in patients with onset of IDDM before and after age 40. Lohmann T, et al. **Diabetes Care** 1997 Apr;20(4):524–9
Autoantibodies to sympathetic ganglia, GAD, or tyrosine phosphatase in long-term IDDM with and without ECG-based cardiac autonomic neuropathy. Muhr D, et al. **Diabetes Care** 1997 Jun;20(6):1009–12
GAD antibodies in IDDM in Thailand [letter] Rattarasarn C, et al. **Diabetes Care** 1996 Jun;19(6):674–5
Absence of antibodies to ICA512/IA-2 in NIDDM patients with the mitochondrial DNA bp 3243 mutation [letter] Taniyama M, et al. **Diabetes Care** 1997 May;20(5):905–6
Sensitivity at diagnosis of combined beta-cell autoantibodies in insulin-dependent diabetic children. French Registry of IDDM in Children Study Group. Ongagna JC, et al. **Diabetes Metab** 1997 Apr;23(2):155–60
Pancreatic beta cell function and antibodies to glutamic acid decarboxylase (anti-GAD) in Chinese patients with clinical diagnosis of insulin-dependent diabetes mellitus. Chan JC, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1–2):27–34
Detection of recombinant GAD65 and GAD67 antibodies using a simple radioimmunoassay. Kawasaki E, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1–2):61–9
Autoantibodies in relation to residual insulin secretion in children with IDDM. Ludvigsson J, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):81–9
Low prevalence of immunogenetic markers of IDDM in adult Koreans with diabetes detected on OGTT. Park Y, et al. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S37–43
Combined measurements of GAD65 and ICA512 antibodies in acute onset and slowly progressive IDDM. Yamada K, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):91–8
Antibodies to glutamic acid decarboxylase in the prediction of insulin dependency. Zimmet P. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S125–31 (31 ref.)
Autoantibodies to IA-2 not detected in NOD mice or BB rats [letter] DeSilva MG, et al. **Diabetologia** 1996 Oct; 39(10):1237–8
Diagnostic sensitivity of immunodominant epitopes of glutamic acid decarboxylase (GAD65) autoantibodies in childhood IDDM. Falorni A, et al. **Diabetologia** 1996 Sep; 39(9):1091–8
Association of IA-2 autoantibodies with HLA DR4 phenotypes in IDDM. Genovese S, et al. **Diabetologia** 1996 Oct;39(10):1223–6
Association between HLA and islet cell antibodies in diabetic patients with a mitochondrial DNA mutation at base pair 3243. Kobayashi T, et al. **Diabetologia** 1996 Oct; 39(10):1196–200
Anti-islet autoantibodies detected by monoclonal antibody 1A2: further studies suggesting a role in the pathogenesis of IDDM. McEvoy RC, et al. **Diabetologia** 1996 Nov; 39(11):1365–71
Islet cell autoantigen 69 antibodies in IDDM [letter; comment] Martin S, et al. **Diabetologia** 1996 Jun;39(6):747 . Comment on: Diabetologia 1995 Mar;38(3):351–5.
GAD65 autoantibodies in women with gestational or insulin dependent diabetes mellitus diagnosed during pregnancy. Petersen JS, et al. **Diabetologia** 1996 Nov;39(11):1329–33
Altered immune response to insulin in newly diagnosed compared to insulin-treated diabetic patients and healthy control subjects. Schloot NC, et al. **Diabetologia** 1997 May; 40(5):564–72

T-cell reactivity to GAD65 peptide sequences shared with coxsackie virus protein in recent-onset IDDM, post-onset IDDM patients and control subjects. Schloot NC, et al. **Diabetologia** 1997 Mar;40(3):332–8

Prevalence of GAD65 and IA-2 autoantibodies in IDDM patients affected by diabetic nephropathy [letter] Zerbini G, et al. **Diabetologia** 1997 Apr;40(4):485

Antibodies to the 37,000-Mr tryptic fragment of islet antigen were detected in Japanese insulin-dependent diabetes mellitus patients. Ozawa Y, et al. **Endocr J** 1996 Dec; 43(6):615–20

Altered immunoregulations in otosclerosis: presence of autoantibodies in otosclerotic sera samples. Jesić S, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S50–2

Humoral immune response to polymorphic epithelial mucin (MUC-1) in patients with benign and malignant breast tumours. von Mensdorff-Pouilly S, et al. **Eur J Cancer** 1996 Jul;32A(8):1325–31

Complete congenital heart block is associated with increased autoantibody titers against calreticulin. Orth T, et al. **Eur J Clin Invest** 1996 Mar;26(3):205–15

Lipoprotein(a) increase associated with thyroid autoimmunity. Lotz H, et al. **Eur J Endocrinol** 1997 Jan; 136(1):87–91

IgM auto-antibody thrombocytopenia simulating pseudothrombocytopenia [letter] Duschek EJ, et al. **Eur J Haematol** 1997 Apr;58(4):295–6

Anti-cytochrome P450 autoantibodies in drug-induced disease. Beaune PH, et al. **Eur J Haematol Suppl** 1996; 60:89–92 (23 ref.)

Value of ICA512 antibodies for prediction and diagnosis of type 1 diabetes. Mayrhofer M, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):228–34

In vitro synthesized TSH receptor as a tool for autoantibody detection. Morgenthaler NG, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:56–9

Combined antibody screening for improved prediction of IDDM—modern strategies. Roll U, et al. **Exp Clin Endocrinol Diabetes** 1997;105(1):1–14 (41 ref.)

Sinclair swine with spontaneously regressing cutaneous melanomas do not have autoantibodies against retinal bipolar cells [letter] Alexander KR, et al. **Exp Eye Res** 1996 Sep;63(3):347–9

Oral administration of lens homogenate suppresses antibody production in mice injected with beta-crystallin emulsified in CFA. Sueno T, et al. **Exp Eye Res** 1997 Mar;64(3):379–85

Goodpasture syndrome: selective removal of anti-alpha 3 (IV) collagen autoantibodies. A potential therapeutic alternative to plasmapheresis. Boutaud AA, et al. **Exp Nephrol** 1996 Jul-Aug;4(4):205–12

Interference of antisperm antibodies with the induction of the acrosome reaction by zona pellucida (ZP) and its relationship with the inhibition of ZP binding. Francavilla F, et al. **Fertil Steril** 1997 Jun;67(6):1128–33

Midfollicular anticardiolipin and antiphosphatidylserine antibody titers do not correlate with in vitro fertilization outcome. Kowalik A, et al. **Fertil Steril** 1997 Aug; 68(2):298–304

The easy formation of antisperm antibodies in prepubertal boys and the difficult humoral response in severe-combined immunodeficiency mice. Kurpisz M, et al. **Fertil Steril** 1996 Nov;66(5):805–8

Unilateral cryptorchidism corrected in prepubertal age: evaluation of sperm parameters, hormones, and antisperm antibodies in adult age. Lenzi A, et al. **Fertil Steril** 1997 May;67(5):943–8

Carbonic anhydrase and primary chronic pancreatitis [letter; comment] Cavallini G, et al. **Gastroenterology** 1997 Mar; 112(3):1054–6. Comment on: Gastroenterology 1996 May;110(5):1579–86.

Antibodies to carbonic anhydrase in autoimmune cholangiopathy [letter; comment] Muratori P, et al. **Gastroenterology** 1997 Mar;112(3):1053–4. Comment on: Gastroenterology 1995 Jun;108(6):1802–9.

Autoantibodies against glucuronosyltransferases differ between viral hepatitis and autoimmune hepatitis. Strassburg CP, et al. **Gastroenterology** 1996 Dec; 111(6):1576–86

Determination of anti-AGE antibodies in human serum. Baydanoff S, et al. **Glycoconj J** 1996 Jun;13(3):335–9

Autoantibodies and immunoglobulins in collagenous colitis. Bohr J, et al. **Gut** 1996 Jul;39(1):73–6

Antineutrophil cytoplasmic antibodies in sera from colectomised ulcerative colitis patients and its relation to the presence of pouchitis. Esteve M, et al. **Gut** 1996 Jun; 38(6):894–8

Pancreatic autoantibodies in Crohn's disease: a family study [see comments] Seibold F, et al. **Gut** 1997 Apr;40(4):481–4 . Comment in: Gut 1997 Apr;40(4):557–8.

Antibody 'markers' in Crohn's disease: opportunity or overstatement? [comment] Shanahan F. **Gut** 1997 Apr; 40(4):557–8. Comment on: Gut 1997 Apr;40(4):481–4.

Circulating antiplatelet antibody specificity in children with immune thrombocytopenic purpura at onset [letter] Biglino P, et al. **Haematologica** 1997 Jan-Feb;82(1):127

Cardiac autoantibodies in dilated cardiomyopathy become undetectable with disease progression. Caforio AL, et al. **Heart** 1997 Jan;77(1):62–7

Lack of platelet response to collagen associated with autoantibodies against glycoprotein (GP) Ia/IIa and Ib/IX leading to the discovery of SLE. Dromigny A, et al. **Hematol Cell Ther** 1996 Aug;38(4):355–7

A comparison of the prevalence of autoantibodies in individuals with chronic hepatitis C and those with autoimmune hepatitis: the role of interferon in the development of autoimmune diseases. Bayraktar Y, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):417–25

Serum autoantibodies in chronic hepatitis C: comparison with autoimmune hepatitis and impact on the disease profile. Cassani F, et al. **Hepatology** 1997 Sep;26(3):561–6

Immune response to cyclin B1 in hepatocellular carcinoma. Covini G, et al. **Hepatology** 1997 Jan;25(1):75–80

Frequency and significance of antibodies to actin in type 1 autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1996 Nov;24(5):1068–73

Thyroid abnormalities in chronic viral hepatitis and their relationship to interferon alfa therapy. Deutsch M, et al. **Hepatology** 1997 Jul;26(1):206–10

Virus-induced anti-asialoglycoprotein receptor autoimmunity in experimental hepadnaviral hepatitis. Diao J, et al. **Hepatology** 1997 Mar;25(3):689–96

Differential recognition of the 52-kd Ro(SS-A) antigen by sera from patients with primary biliary cirrhosis and primary Sjögren's syndrome. Dörner T, et al. **Hepatology** 1996 Dec;24(6):1404–7

Comparison of the clinical features and clinical course of antimitochondrial antibody-positive and -negative primary biliary cirrhosis. Invernizzi P, et al. **Hepatology** 1997 May; 25(5):1090–5

Early primary biliary cirrhosis: just delayed or different? Lindor KD. **Hepatology** 1997 Jul;26(1):239–41

Autoreactive CD4+ LKM-specific and anticlonotypic T-cell responses in LKM-1 antibody-positive autoimmune hepatitis. Löhr HF, et al. **Hepatology** 1996 Dec; 24(6):1416–21

Comparative studies of antimitochondrial autoantibodies in sera and bile in primary biliary cirrhosis. Nishio A, et al. **Hepatology** 1997 May;25(5):1085–9

Anti-gp210 antibodies in sera of patients with primary biliary cirrhosis. Identification of a 64 kD fragment of gp210 as a major epitope. Węsierska-Gądek J, et al. **Hum Antibodies Hybridomas** 1996;7(4):167–74

Alpha 1-adrenergic receptor antibodies in patients with primary hypertension. Luther HP, et al. **Hypertension** 1997 Feb;29(2):678–82

Anti-fucosyl-GM1 ganglioside IgG and IgM autoantibodies in human serum: no link to pathology. Adler G, et al. **Immunol Lett** 1996 Sep;52(2-3):89–93

Clinically insignificant (natural) autoantibodies against acetyl cholinesterase in the sera of patients with a variety of neurologic, muscular and autoimmune diseases. Lidar T, et al. **Immunol Lett** 1997 Feb;55(2):79–84

Anti-alpha-galactoside antibody of the human plasma. Appukuttan PS. **Indian J Biochem Biophys** 1996 Jun; 33(3):159–63 (37 ref.)

Characteristic distribution of circulating autoantibodies against G-protein coupled cardiovascular receptors in patients with idiopathic dilated and hypertrophic cardiomyopathy. Matsui S, et al. **Int J Cardiol** 1996 May; 54(2):143–7 (28 ref.)

Antibody response to islet antigens in anti-CD4/prednisolone immune intervention of type 1 diabetes. Kohnert KD, et al. **Int J Clin Lab Res** 1996;26(1):55–9

Organ-specific autoantibodies in vitiligo patients and their relatives. Mandry RC, et al. **Int J Dermatol** 1996 Jan; 35(1):18–21

Severe bleeding in a patient with spontaneous factor VIII inhibitor and acute exacerbation of chronic pancreatitis [letter] Martínez C, et al. **Intensive Care Med** 1996 Nov; 22(11):1278–9

Anti-liver/kidney microsome-1-positive chronic hepatitis C with type I cryoglobulinemia responding to interferon [see comments] Abe K, et al. **Intern Med** 1995 Nov; 34(11):1114–9. Comment in: Intern Med 1995 Nov;34(11):1043–4.

Antibodies to liver/kidney microsome type 1 positive chronic hepatitis C and cryoglobulinemia [editorial; comment] Nishioka M. **Intern Med** 1995 Nov;34(11):1043–4. Comment on: Intern Med 1995 Nov;34(11):1114–9.

Autoantibodies and immunoglobulins in atomic bomb survivors with human T-lymphotropic virus type I. Ohishi K, et al. **Intern Med** 1996 Aug;35(8):624–8

Anti-smooth muscle antibody in clinical human and experimental animal Mycoplasma pneumoniae infection. Cimolai N, et al. **J Appl Microbiol** 1997 May;82(5):625–30

Clinical evaluation of non-insulin-dependent diabetes mellitus patients with autoantibodies to glutamic acid decarboxylase. Abiru N, et al. **J Autoimmun** 1996 Oct; 9(5):683–8

Production of anti-Ro/SS-A and anti-La/SS-B autoantibodies is closely coordinated in systemic lupus erythematosus and independent of anti-dsDNA production. Meilof JF, et al. **J Autoimmun** 1997 Feb; 10(1):67–75

Detection of autoantibodies to the pancreatic islet heat shock protein 60 in insulin-dependent diabetes mellitus. Ozawa Y, et al. **J Autoimmun** 1996 Aug;9(4):517–24

Characteristic generated alterations of autoantibody patterns in idiopathic thrombocytopenic purpura. Sundblad A, et al. **J Autoimmun** 1997 Apr;10(2):193–201

Expression of recombinant human glutamic acid decarboxylase (GAD) in myeloma cells and enzyme-linked immunosorbent assay (ELISA) for autoantibodies to GAD. Matsuba T, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):20–4

Anti-dsDNA antibody kinetics during in vivo apheresis in systemic lupus erythematosus patients and in an in vitro apheresis model. Suzuki K, et al. **J Clin Apheresis** 1996; 11(4):211–6

Identification of 3 beta-hydroxysteroid dehydrogenase as a novel target of steroid cell autoantibodies: association of autoantibodies with endocrine autoimmune disease. Arif S, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4439–45

Autoantibodies against aromatic L-amino acid decarboxylase in autoimmune polyendocrine syndrome type I. Husebye ES, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):147–50

Steroid 21-hydroxylase autoantibodies: measurements with a new immunoprecipitation assay. Tanaka H, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1440–6

Reliability of immunologic markers of celiac sprue in the assessment of mucosal recovery after gluten withdrawal. Sategna-Guidetti C, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):101–4

Inverse correlation between IgG-antihinge region and antierythrocyte autoantibody in chronic benign and malignant cold agglutination. Terness P, et al. **J Clin Immunol** 1997 May;17(3):220–7

An in vitro assay for detection of glomerular binding IgG autoantibodies in patients with systemic lupus erythematosus. Budhai L, et al. **J Clin Invest** 1996 Oct 1; 98(7):1585–93

Anti-A2/RA33 autoantibodies are directed to the RNA binding region of the A2 protein of the heterogeneous nuclear ribonucleoprotein complex. Differential epitope recognition in rheumatoid arthritis, systemic lupus erythematosus, and mixed connective tissue disease. Skriner K, et al. **J Clin Invest** 1997 Jul 1;100(1):127–35

HLA-DQB1-defined genetic susceptibility, beta cell autoimmunity, and metabolic characteristics in familial and nonfamilial insulin-dependent diabetes mellitus. Childhood Diabetes in Finland (DiMe) Study Group. Veijola R, et al. **J Clin Invest** 1996 Dec 1;98(11):2489–95

Analysis of antigens recognized by autoantibodies in herpes gestationis. Usefulness of immunoblotting using a fusion protein representing an extracellular domain of the 180 kD bullous pemphigoid antigen. Murakami H, et al. **J Dermatol Sci** 1996 Nov;13(2):112–7

Celiac disease and type I (insulin-dependent) diabetes mellitus in childhood: follow-up study. Lorini R, et al. **J Diabetes Complications** 1996 May-Jun;10(3):154–9

Antibody-dependent cell-mediated cytotoxicity against orbital target cells in thyroid-associated ophthalmopathy and related disorders; close relationship between serum cytotoxic antibodies and parameters of eye muscle dysfunction. Barsouk A, et al. **J Endocrinol Invest** 1996 Jun;19(6):334–41

Usefulness of a chromatographic method to detect circulating antithyroid hormone autoantibodies in canine serum. Savastano S, et al. **J Endocrinol Invest** 1996 Dec; 19(11):758–62

Relationship between thyroid-stimulating antibodies and thyrotropin-binding inhibitory immunoglobulins years after administration of radioiodine for Graves' disease: retrospective clinical survey. Yoshida K, et al. **J Endocrinol Invest** 1996 Nov;19(10):682–6

Proteasome alpha-type subunit C9 is a primary target of autoantibodies in sera of patients with myositis and systemic lupus erythematosus. Feist E, et al. **J Exp Med** 1996 Oct 1;184(4):1313–8

SS-A/Ro antibodies in Chinese patients with systemic lupus erythematosus and Sjögren's syndrome. Tsay GJ, et al. **J Formos Med Assoc** 1996 Dec;95(12):905–10

Idiopathic portal hypertension associated with high serum titer of autoantibodies and liver dysfunction. Mori K, et al. **J Gastroenterol** 1996 Feb;31(1):123–8

Autoantibodies to M2 mitochondrial autoantigens in normal human sera by immunofluorescence and novel assays. Omagari K, et al. **J Gastroenterol Hepatol** 1996 Jul; 11(7):610–6

Genetic predispositions for immunological features in chronic liver diseases other than autoimmune hepatitis. Czaja AJ, et al. **J Hepatol** 1996 Jan;24(1):52–9

Transient positivity of antinuclear and anti-smooth muscle antibodies in hepatitis A virus infection [letter] Gutiérrez A, et al. **J Hepatol** 1996 Jan;24(1):123

Establishment of a novel radioligand assay using eukaryotically expressed cytochrome P4502D6 for the measurement of liver kidney microsomal type 1 antibody in patients with autoimmune hepatitis and hepatitis C virus infection. Ma Y, et al. **J Hepatol** 1997 Jun;26(6):1396–402

Present status of autoimmune hepatitis in Japan--correlating the characteristics with international criteria in an area with a high rate of HCV infection. Japanese National Study Group of Autoimmune Hepatitis. Toda G, et al. **J Hepatol** 1997 Jun;26(6):1207–12

IgE autoantibodies directed against the major bullous pemphigoid antigen in patients with a severe form of pemphigoid. Delaporte E, et al. **J Immunol** 1996 Oct 15; 157(8):3642–7

Characterization of autoantibodies in pemphigus using antigen-specific enzyme-linked immunosorbent assays with baculovirus-expressed recombinant desmogleins. Ishii K, et al. **J Immunol** 1997 Aug 15;159(4):2010–7

Requirement of glycosylation of the human thyrotropin receptor ectodomain for its reactivity with autoantibodies in patients' sera. Seetharamaiah GS, et al. **J Immunol** 1997 Mar 15;158(6):2798–804

Detection of tyrosinase autoantibodies in patients with vitiligo using 35S-labeled recombinant human tyrosinase in a radioimmunoassay. Kemp EH, et al. **J Invest Dermatol** 1997 Jul;109(1):69–73

Antitriiodothyronine antibody in patient with Hashimoto's thyroiditis. Plengvidhya N, et al. **J Med Assoc Thai** 1997 Mar;80(3):202–6

Autoantibodies in sera of patients with myocarditis: characterization of the corresponding proteins by isoelectric focusing and N-terminal sequence analysis. Pankuweit S, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):77–84

Antibodies of the anti-Yo and anti-Ri type in the absence of paraneoplastic neurological syndromes: a long-term survey of ovarian cancer patients. Drlicek M, et al. **J Neurol** 1997 Feb;244(2):85–9

Incidence of serum anti-P/O-type and anti-N-type calcium channel autoantibodies in the Lambert-Eaton myasthenic syndrome. Motomura M, et al. **J Neurol Sci** 1997 Mar 20; 147(1):35–42

Antibodies to fucogangliosides in neurological diseases. Yuki N, et al. **J Neurol Sci** 1997 Sep 1;150(1):81–4

Cytokine phenotype of human autoreactive T cell clones specific for the immunodominant myelin basic protein peptide (83–99). Hemmer B, et al. **J Neurosci Res** 1996 Sep 15;45(6):852–62

Factors defining target specificity in antibody-mediated neuropathy: density-dependent binding of anti-GD1a polyclonal IgG from a neurological patient. Kremer DM, et al. **J Neurosci Res** 1997 Mar 15;47(6):636–41

Pregnancy in a patient of Glanzmann's thrombasthenia with antiplatelet antibodies. Kashyap R, et al. **J Obstet Gynaecol Res** 1997 Jun;23(3):247–50

Immunotherapy with husband's leukocytes to primary habitual aborters and autoantibodies in their sera. Takesako S, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):51–7

Serum autoantibodies in childhood opsoclonus-myoclonus syndrome: an analysis of antigenic targets in neural tissues [see comments] Connolly AM, et al. **J Pediatr** 1997 Jun; 130(6):878–84. Comment in: J Pediatr 1997 Jun;130(6):855–7.

Hyperlipidemia and presence of thyroid autoantibodies in girls with Turner's syndrome or mosaic variance. Mitsibounas DN, et al. **J Pediatr Adolesc Gynecol** 1997 Aug;10(3):133–9

Asymptomatic autoimmune hepatitis associated with anti-LC-1 autoantibodies. Klein C, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):461–5

Increased prevalence of diabetes-related autoantibodies in celiac disease. Rapoport MJ, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):524–7

Differences in the natural autoantibody patterns of patients with schizophrenia and normal individuals. Lévy-Soussan P, et al. **J Psychiatry Neurosci** 1996 Mar;21(2):89–95

Appearance of 'natural' antisperm autoantibodies after sexual maturation of normal Lewis rats. Flickinger CJ, et al. **J Reprod Immunol** 1997 Jun;33(2):127–45

Clinical significance of specific autoantibodies in juvenile dermatomyositis. Feldman BM, et al. **J Rheumatol** 1996 Oct;23(10):1794–7

The presence of anti-Fc gamma receptor autoantibodies is related to the clinical presentation of primary Sjögren's syndrome. Lamour A, et al. **J Rheumatol** 1995 Dec; 22(12):2241–5

Antineutrophil cytoplasmic antibodies in reactive arthritis [see comments] Locht H, et al. **J Rheumatol** 1995 Dec; 22(12):2304–6. Comment in: J Rheumatol 1996 Sep;23(9):1670–2.

Autoantibodies to myeloperoxidase in systemic sclerosis. Locke IC, et al. **J Rheumatol** 1997 Jan;24(1):86–9

Recombinant 52 kDa Ro(SSA) ELISA detects autoantibodies in Sjögren's syndrome sera that go undetected by conventional serologic assays. McCauliffe DP, et al. **J Rheumatol** 1997 May;24(5):860–6

Antibodies to the 45 kDa DEK nuclear antigen in pauciarticular onset juvenile rheumatoid arthritis and iridocyclitis: selective association with MHC gene. Murray KJ, et al. **J Rheumatol** 1997 Mar;24(3):560–7

Serial analysis of autoantibody responses to the collagen-like region of Clq, collagen type II, and double stranded DNA in patients with systemic lupus erythematosus. Sjoholm AG, et al. **J Rheumatol** 1997 May;24(5):871–8

Interleukin-1-beta, tumour necrosis factor-alpha, islet-cell antibody, and insulin secretion in children with thalassemia major on long-term blood transfusion. el Nawawy A, et al. **J Trop Pediatr** 1996 Dec;42(6):362–4

Glucose tolerance, C-peptide response to glucagon, and thyroid and adrenal functions in relation to auto-antibodies in vitiligo [letter] Soliman AT, et al. **J Trop Pediatr** 1996 Feb;42(1):60

Natural history of early primary biliary cirrhosis [see comments] Metcalf JV, et al. **Lancet** 1996 Nov 23; 348(9039):1399–402. Comment in: Lancet 1997 Jan 25;349(9047):285.

Consensus therapeutic regimens for ANCA-associated systemic vasculitis. The European Community Systemic Vasculitis Study Group [letter; comment] Rasmussen N. **Lancet** 1997 Apr 5;349(9057):1029–30. Comment on: Lancet 1997 Feb 22;349(9051):553–8.

Use of antipolymer antibody assay in recipients of silicone breast implants [see comments] [published erratum appears in Lancet 1997 May 24;349(9064):1558] Tenenbaum SA, et al. **Lancet** 1997 Feb 15;349(9050):449–54. Comment in: Lancet 1997 Apr 19;349(9059):1170. Comment in: Lancet 1997 Apr 19;349(9059):1170–1; discussion 1172–3. Comment in: Lancet 1997 Apr 19;349(9059):1171. Comment in: Lancet 1997 Apr 19;349(9059):1171; discussion 1172–3. Comment in: Lancet 1997 Apr 19;349(9059):1171–2; discussion 1172–3.

Autoantibodies to the collagen-like region of C1q are strongly associated with classical pathway-mediated hypocomplementemia in systemic lupus erythematosus. Frémeaux-Bacchi V, et al. **Lupus** 1996 Jun;5(3):216–20

Cutaneous diseases in adults associated with anti-Ro/SS-A autoantibody production. McCauliffe DP. **Lupus** 1997; 6(2):158–66 (100 ref.)

Anti-endothelial cell antibodies in systemic autoimmune diseases: prevalence and clinical significance. Navarro M, et al. **Lupus** 1997;6(6):521–6

Anti beta 2glycoprotein I antibodies and lupus anticoagulant in patients with recurrent pregnancy loss: prevalence and clinical significance. Ogasawara M, et al. **Lupus** 1996 Dec; 5(6):587–92

Prevalence of 13 autoantibodies and of the 16/6 and related pathogenic idiotypes in 465 patients with systemic lupus erythematosus and their relationship with disease activity. Villarreal GM, et al. **Lupus** 1997;6(5):425–35

Neuropsychiatric manifestations in patients with systemic lupus erythematosus: diagnostic and predictive value of longitudinal examination of anti-ribosomal P antibody [see comments] Watanabe T, et al. **Lupus** 1996 Jun;5(3):178–83 . Comment in: Lupus 1996 Dec;5(6):634–5.

Anti-nuclear, anti-mitochondrial, anti-smooth muscle and anti-parietal cell antibodies in the healthy Malaysian population. Azizah MR, et al. **Malays J Pathol** 1995 Dec; 17(2):83–6

Prevalence of organ-specific and non organ-specific autoantibodies in healthy centenarians. Candore G, et al. **Mech Ageing Dev** 1997 Mar;94(1-3):183–90

Effect of 1 alpha-hydroxyvitamin D3 on serum levels of thyroid hormones in hyperthyroid patients with untreated Graves' disease. Kawakami-Tani T, et al. **Metabolism** 1997 Oct;46(10):1184–8

Cytochrome P450 2E1 is a cell surface autoantigen in halothane hepatitis. Eliasson E, et al. **Mol Pharmacol** 1996 Sep;50(3):573–82

Electrodiagnostic findings related to anti-GM1 and anti-GQ1b antibodies in Guillain-Barré syndrome. Jacobs BC, et al. **Muscle Nerve** 1997 Apr;20(4):446–52

Prednisone and aspirin in women with autoantibodies and unexplained recurrent fetal loss [see comments] Laskin CA, et al. **N Engl J Med** 1997 Jul 17;337(3):148–53. Comment in: N Engl J Med 1997 Jul 17;337(3):197–8.

Sera from patients with anti-GBM nephritis including goodpasture syndrome show heterogenous reactivity to recombinant NC1 domain of type IV collagen alpha chains. Dehan P, et al. **Nephrol Dial Transplant** 1996 Nov; 11(11):2215–22

Antimuscle and anti-CNS circulating antibodies in chronic fatigue syndrome. Plioplys AV. **Neurology** 1997 Jun; 48(6):1717–9

Clinical heterogeneity of seronegative myasthenia gravis. Evoli A, et al. **Neuromuscul Disord** 1996 May;6(3):155–61

Exposure to methyl mercury results in serum autoantibodies to neurotypic and gliotypic proteins [corrected and republished in Neurotoxicology 1996 Summer;17(2):531–9] el-Fawal HA, et al. **Neurotoxicology** 1996 Spring; 17(1):267–76

Exposure to methylmercury results in serum autoantibodies to neurotypic and gliotypic proteins [corrected and republished article originally printed in Neurotoxicology 1996 Spring;17(1):267–76] el-Fawal HA, et al. **Neurotoxicology** 1996 Summer;17(2):531–9

Pregnancy loss and autoantibodies against phospholipid-binding proteins. Falcón CR, et al. **Obstet Gynecol** 1997 Jun;89(6):975–80

Effects of autoantibodies on the course of pregnancy and fetal growth. Iijima T, et al. **Obstet Gynecol** 1997 Sep; 90(3):364–9

Antibodies against inner-ear proteins in the sera of patients with inner-ear diseases. Suzuki M, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jan-Feb; 59(1):10–7

Beta-cell function abnormalities in islets from an adult subject with nesidioblastosis and autoantibodies against the islet cells. Conget I, et al. **Pancreas** 1997 Jan;14(1):71–5

p53 autoantibodies in patients with pancreatitis and pancreatic carcinoma. Raedle J, et al. **Pancreas** 1996 Oct; 13(3):241–6

Adverse drug reaction to rifampin: a case with long lasting antiplatelet antibodies. Tricerri A, et al. **Panminerva Med** 1997 Mar;39(1):64–6

Serological reactivity to heat shock protein 70 in patients with hydatid disease. Colebrook AL, et al. **Parasite Immunol** 1997 Jan;19(1):41–6

Cranial polyneuropathy with elevated serum antiganglioside antibody. Matsubara K, et al. **Pediatr Neurol** 1997 Feb; 16(2):149–51

Varicella-associated thrombocytopenia: autoantibodies against platelet surface glycoprotein V. Mayer JL, et al. **Pediatr Res** 1996 Oct;40(4):615–9

Islet cell surface antibodies are more common in patients and relatives in areas and during seasons with high incidence of insulin-dependent diabetes mellitus. Samuelsson U, et al. **Pediatr Res** 1996 Nov;40(5):695–701

Autoantibody reactivity in serum of patients with Alzheimer's disease and other age-related dementias. Schott K, et al. **Psychiatry Res** 1996 Jan 31;59(3):251–4

The clinical spectrum of postpartum thyroid disease. Lazarus JH, et al. **QJM** 1996 Jun;89(6):429–35

IgG subclasses of canine anti-erythrocyte, antinuclear and anti-thyroglobulin autoantibodies. Day MJ. **Res Vet Sci** 1996 Sep;61(2):129–35

Autoantibodies before, during and after administration of recombinant interferon-alpha for chronic viral hepatitis. Lopes EP, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep-Oct;37(5):455–60 (23 ref.)

The frequency of autoantibodies in Turkish patients with lupus nephritis. Düzgün N, et al. **Rheumatol Int** 1997; 17(1):1–4

Autoimmune hemolytic anemia with warm antibodies complicated with an intercurrent attack of hemolysis with cold agglutinins in a case of Waldenström disease. Gologan R, et al. **Rom J Intern Med** 1996 Jan-Jun;34(1-2):149–54 (30 ref.)

Absence of LKM-1 antibody reactivity in autoimmune and hepatitis-C-related chronic liver disease in Sweden. Swedish Internal Medicine Liver club. Lindgren S, et al. **Scand J Gastroenterol** 1997 Feb;32(2):175–8

The age-associated increase in autoreactive immunoglobulins reflects a quantitative increase in specificities detectable at lower concentrations in young mice. Nobrega A, et al. **Scand J Immunol** 1996 Nov;44(5):437–43

Association between chronic widespread musculoskeletal complaints and thyroid autoimmunity. Results from a community survey. Aarflot T, et al. **Scand J Prim Health Care** 1996 Jun;14(2):111–5

Autoantibodies and primary Sjögren's syndrome in a hypocitraturic stone population. Eriksson P, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):73–80

Interstitial lung disease with autoantibodies against aminoacyl-tRNA synthetases in the absence of clinically apparent myositis. Friedman AW, et al. **Semin Arthritis Rheum** 1996 Aug;26(1):459–67

Autoantibodies to phospholipids and to the coagulation proteins in AIDS. Abuaf N, et al. **Thromb Haemost** 1997 May;77(5):856–61

Species specificity of anti-beta 2 glycoprotein I autoantibodies and its relevance to anticardiolipin antibody quantitation. Arvieux J, et al. **Thromb Haemost** 1996 May; 75(5):725–30

Antiphospholipid syndromes with anti-human beta 2-glycoprotein I antibodies despite negative reactivity in conventional aPL and LA assays [letter] Guérin V, et al. **Thromb Haemost** 1997 May;77(5):1037–8

Naturally occurring IgG autoantibodies to platelet cytoskeleton tropomyosin. Hou M, et al. **Thromb Haemost** 1996 Apr;75(4):642–7

Autoantibodies to phospholipid-binding plasma proteins in patients with thrombosis and phospholipid-reactive antibodies. Pengo V, et al. **Thromb Haemost** 1996 May; 75(5):721–4

Inhibition of protein S by autoantibodies in patients with acquired protein S deficiency. Sorice M, et al. **Thromb Haemost** 1996 Apr;75(4):555–9

Association of lupus anticoagulant with transient antibodies to prothrombin in a patient with hypoprothrombinemia. Amiral J, et al. **Thromb Res** 1997 Apr 1;86(1):73–8

Antibodies to thromboplastin in systemic lupus erythematosus: isotype distribution and clinical significance in a series of 92 patients. Font J, et al. **Thromb Res** 1997 Apr 1;86(1):37–48

Protein S deficiency and antibodies to protein S in patients with Behçet's disease. Guermazi S, et al. **Thromb Res** 1997 May 1;86(3):197–204

Clinical significance of measurements of antithyroid antibodies in the diagnosis of Hashimoto's thyroiditis: comparison with histological findings. Kasagi K, et al. **Thyroid** 1996 Oct;6(5):445–50

Effect of L-thyroxine administration on antithyroid antibody levels, lipid profile, and thyroid volume in patients with Hashimoto's thyroiditis. Romaldini JH, et al. **Thyroid** 1996 Jun;6(3):183–8

A comparison of monoclonal antibody immobilization of platelet antigen (MAIPA) and immunobead methods for detection of GPIIb/IIIa antiplatelet antibodies in immune thrombocytopenic purpura. Crossley A, et al. **Transfus Med** 1997 Jun;7(2):127–34

Anti-Vw causing a case of clinically significant hemolytic disease of the newborn [letter] Gorlin JB, et al. **Transfusion** 1996 Oct;36(10):938–9

Reduced frequency of HLA-DQ6 in individuals with a positive direct antiglobulin test. Wang-Rodriguez J, et al. **Transfusion** 1996 Nov-Dec;36(11-12):979–84

Presensitization and HLA match influence the predictive power of pretransplant serum IgA and IgA-anti-Fab autoantibodies in kidney graft recipients. Süsal C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1444–6

Role of idiotype-independent anti-IgG autoantibodies in human kidney transplantation: natural anti-F(ab')2 antibodies recognize an IgG1 hinge region epitope. Terness P, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1412–4

Antineuronal antibody in a patient with neuroblastoma and opsoclonus-myoclonus-ataxia: a case report. Salmaggi A, et al. **Tumori** 1997 May-Jun;83(3):709–11

Antisperm antibody and Klinefelter syndrome: does autoimmunity play a role in the pathogenesis? Sengül A,

et al. **Urol Int** 1996;57(2):77–9

Platelet antibody detection in pediatric immune thrombocytopenic purpura: evaluation of three screening methods. Biglino P, et al. **Vox Sang** 1997;72(4):242–6

CD36 autoantibodies and thrombotic diathesis, thrombocytopenia and repeated early fetal losses. Borzini P, et al. **Vox Sang** 1997;73(1):46–8

Gel test application for IgG subclass detection in auto–immune haemolytic anaemia. Fabijańska–Mitek J, et al. **Vox Sang** 1997;72(4):233–7

Citrate–dependent auto–antibody causing error in blood grouping. Joshi SR. **Vox Sang** 1997;72(4):229–32

Preoperative change of thyroid stimulating hormone receptor antibody level: possible marker for predicting recurrent hyperthyroidism in patients with Graves' disease after subtotal thyroidectomy. Sugino K, et al. **World J Surg** 1996 Sep;20(7):801–6; discussion 806–7

Anti asialoglycoprotein receptor antibodies and soluble interleukin–2 receptor levels as marker for inflammation in autoimmune hepatitis. Dejica D, et al. **Z Gastroenterol** 1997 Jan;35(1):15–21

Systemic lupus erythematosus in women and serum interleukin–6, sperm and zona pellucida antibodies. Ulčová–Gallová Z, et al. **Zentralbl Gynakol** 1996; 118(7):401–5

[Evaluation and its clinical significance of anti–platelet granule membrane protein–140 autoantibodies and anticalmodulin antibody in patients with severe pregnancy–induced hypertension] Zhang S, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):665–7 (Eng. Abstr.) **(Chi)**

[Acquired autoantibodies against human factor VIII: a new case] Cailleux N, et al. **J Mal Vasc** 1996;21(5):324–8 (Eng. Abstr.) **(Fre)**

[Mixed cryoglobulins and autoimmunity in hepatitis C] Tridon A, et al. **Pathol Biol (Paris)** 1997 Apr;45(4):291–7 (Eng. Abstr.) **(Fre)**

[Importance of flow cytometry in the detection of anti–erythrocyte autoantibodies] Marion V, et al. **Transfus Clin Biol** 1996;3(2):99–107 (Eng. Abstr.) **(Fre)**

[Severe hemolysis related to an association of erythrocyte allo– and autoantibodies in a thalassemia patients] Mizon P, et al. **Transfus Clin Biol** 1996;3(4):257–61 (Eng. Abstr.) **(Fre)**

[Cryofibrinogenemia caused by monoclonal antifibrinogen antibodies. Pseudo–cryofibrinogenemia (letter; comment)] Baumgärtel MW, et al. **Dtsch Med Wochenschr** 1997 Apr 25;122(17):562. Comment on: Dtsch Med Wochenschr 1996 Sep 6;121(36):1084–9. **(Ger)**

[Cryofibrinogenemia caused by monoclonal antifibrinogen antibodies (letter)] Zeuner RA, et al. **Dtsch Med Wochenschr** 1997 Jun 6;122(23):769 **(Ger)**

[Endogenous antibodies to interferon–alpha and other cytokines. Interferon antibodies modulate physiologic and pharmacologic cytokine effects] Prümmer O. **Fortschr Med** 1997 May 10;115(13):48–9 **(Ger)**

[Illness stage and IgA–anti–Fab/F(ab')2 autoantibody activity in serum of patients with malignant head–neck tumors] Lorenz KJ, et al. **Laryngorhinootologie** 1996 Dec; 75(12):764–8 (Eng. Abstr.) **(Ger)**

[Antibody formation to cellular p53 protein in patients with squamous cell carcinomas of the upper respiratory and digestive system] Maass JD, et al. **Laryngorhinootologie** 1996 Jan;75(1):53–6 (Eng. Abstr.) **(Ger)**

[Bactericidal permeability increasing protein (BPI–ANCA marked chronic inflammatory bowel diseases and hepatobiliary diseases] Schnabel A, et al. **Med Klin** 1997 Jul 15;92(7):389–93 (Eng. Abstr.) **(Ger)**

[Cytokine therapy and the endocrine system: is it necessary to monitor more than the thyroid gland?] Schuppert F, et al. **Med Klin** 1996 Feb 15;91(2):59–65 (Eng. Abstr.) **(Ger)**

[Canine hypothyroidism: detection of anti–thyroglobulin autoantibodies] Deeg C, et al. **Tierarztl Prax** 1997 Apr; 25(2):170–3 (Eng. Abstr.) **(Ger)**

[Personality markers, physical complaints and microsomal thyroid antibody titer in postpartum women] Seeler MJ, et al. **Z Geburtshilfe Neonatol** 1996 Jul–Aug;200(4):138–43 (Eng. Abstr.) **(Ger)**

[Serotonin antibodies in fibromyalgia syndrome––expression of a neuroendocrinologic autoimmune disease?] Neeck G, et al. **Z Rheumatol** 1996 Jan–Feb;55(1):63–5; 63,66 disc 66–8 **(Ger)**

[RA–specific autoantibodies against a 68k antigen] Specker C, et al. **Z Rheumatol** 1997 Mar–Apr;56(2):63–70 (Eng. Abstr.) **(Ger)**

[Prognostic significance of p53 autoantibodies in serum of patients with breast carcinoma] Huober J, et al. **Zentralbl Gynakol** 1996;118(10):560–4 (Eng. Abstr.) **(Ger)**

[A case of paraneoplastic retinopathy with serum antibody against retinal soluble 70 kDa protein] Takahashi K, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan;101(1):92–6 (Eng. Abstr.) **(Jpn)**

[A study of inner ear autoantibodies in patients with sensorineural hearing loss] Kosaka K. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Feb;100(2):205–12 (Eng. Abstr.) **(Jpn)**

[Interstitial pneumonia complicated by rapidly progressive glomerulonephritis associated with anti–myeloperoxydase antibody] Mitsui I, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Sep; 34(9):1015–20 (Eng. Abstr.) **(Jpn)**

[A case of pregnancy with insulin autoimmune syndrome] Asami M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Sep;48(9):853–6 **(Jpn)**

[Clinical significance of anti–centromere antibody and anti–CENP–B antibody in sera of patients with primary biliary cirrhosis] Onozuka Y, et al. **Rinsho Byori** 1996 Sep; 44(9):877–82 (Eng. Abstr.) **(Jpn)**

[A study on antiprothrombin antibodies in antiphospholipid syndrome] Ieko M, et al. **Rinsho Ketsueki** 1997 May; 38(5):426–32 (Eng. Abstr.) **(Jpn)**

[Malignant lymphoma complicating myelodysplastic syndrome with autoantibody for the thyroid gland] Kondo H, et al. **Rinsho Ketsueki** 1997 Jul;38(7):593–8 (Eng. Abstr.) **(Jpn)**

[A case of Guillain–Barré syndrome with bulbar palsy and a high titer of anti–GT1a antibody] Hashiguchi S, et al. **Rinsho Shinkeigaku** 1997 Apr;37(4):331–3 (Eng. Abstr.) **(Jpn)**

[Antiglycolipid antibody in inflammatory neuropathy] Kusunoki S. **Rinsho Shinkeigaku** 1995 Dec;35(12):1370–2 (6 ref.) (Eng. Abstr.) **(Jpn)**

[A case of myeloradiculoneuropathy associated with persistent high titers of anti–GM1 and anti–GD1b antibodies] Niwa K, et al. **Rinsho Shinkeigaku** 1997 Jan; 37(1):26–30 (Eng. Abstr.) **(Jpn)**

[A case of progressive continuous muscular rigidity and painless and rhythmic muscle spasm associated with autoantibody against glutamic acid decarboxylase] Oe H, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1166–71 (Eng. Abstr.) **(Jpn)**

[Axonal Guillain–Barré syndrome associated with antibodies to GalNAc–GD1a and unidentified acidic glycolipids] Ono M, et al. **Rinsho Shinkeigaku** 1997 Feb;37(2):119–22 (Eng. Abstr.) **(Jpn)**

[Guillain–Barré syndrome with high titers of anti–GM2 and anti–GalNAc–GD1a antibody following cytomegalovirus hepatitis] Shimoya K, et al. **Rinsho Shinkeigaku** 1997 Feb; 37(2):106–10 (Eng. Abstr.) **(Jpn)**

[Decreased incidence of peripheral nuclear staining pattern by indirect immunofluorescent antibody technique using HEp–2 cells] Miyawaki S, et al. **Ryumachi** 1996 Aug; 36(4):644–50 (Eng. Abstr.) **(Jpn)**

[Two cases of interstitial pneumonia with anti–PL–12 (alanyl tRNA synthetase) antibodies] Satoh S, et al. **Ryumachi** 1996 Dec;36(6):862–8 (Eng. Abstr.) **(Jpn)**

[Presence of autoantibodies in patients infected with HIV] Radkowski M, et al. **Pol Merkuriusz Lek** 1996 Oct; 1(4):254–6 (Eng. Abstr.) **(Pol)**

[The effect of serotonin antibodies on the development of a neuropathic pain syndrome] Igon'kina SI, et al. **Patol Fiziol Eksp Ter** 1997 Apr–Jun;(2):6–8 (Eng. Abstr.) **(Rus)**

[A comparative study of the immunological (antimicrosomal antibodies) and cytogenetic indices of children living in radioactively contaminated areas of Bryansk Province] Shinkarkina AP, et al. **Radiats Biol Radioecol** 1997 May–Jun;37(3):404–7 (Eng. Abstr.) **(Rus)**

[Antiendothelial antibodies in systemic lupus erythematosus in men: the connection with kidney involvement and the antiphospholipid syndrome] Nasonov EL, et al. **Ter Arkh** 1996;68(6):46–9 **(Rus)**

[Factors of autoantibody level variations in the human population] Nesvizhskiĭ IV, et al. **Vestn Ross Akad Med Nauk** 1996;(8):3–9 (Eng. Abstr.) **(Rus)**

[Immunochemical correlates of the severity of Parkinson's disease] Morozov SG, et al. **Vopr Med Khim** 1997 Jan–Feb; 43(1):34–8 (Eng. Abstr.) **(Rus)**

[The structure of the determinants of streptococcal group A polysaccharide common to epidermal antigens to which antibodies are formed at different stages of the rheumatic process] Bazanova EA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):16–9 (Eng. Abstr.) **(Rus)**

[An elevation in the level of autoantibodies to nerve–growth factor in the blood serum of schizophrenic children] Bashina VM, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(1):47–51 (Eng. Abstr.) **(Rus)**

[The level of autoantibodies to glutamate receptors in the blood serum of patients in the acute period of ischemic stroke] Gusev EI, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(5):68–72 (Eng. Abstr.) **(Rus)**

[Autoantibodies to brain tissue antigens in epilepsy patients] Morozov SG, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):71–4 (Eng. Abstr.) **(Rus)**

[The diagnosis of epilepsy by using blood analysis for the content of autoantibodies to glutamate neuroreceptors] Odinak MM, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(2):45–8 (Eng. Abstr.) **(Rus)**

[Autoantibodies to glutamate receptor subtypes––markers of functional brain damage: their diagnostic significance for detecting paroxysmal activity and ischemia] Dambinova SA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar–Apr;47(2):439–46 (48 ref.) (Eng. Abstr.) **(Rus)**

[Anticentromere antibodies and lung disease without skin involvement] Fernández–Fernández FJ, et al. **An Med Interna** 1997 Apr;14(4):196–8 (15 ref.) (Eng. Abstr.) **(Spa)**

[Interpretation, applications, and limitations of autoantibodies in chronic autoimmune hepatitis] Díaz Jouanen E. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S63–4 **(Spa)**

[Allo– and autoantibody in a case of autoimmune hemolytic anemia associated with a myelodysplastic syndrome (letter)] Iturbe T, et al. **Sangre (Barc)** 1996 Oct;41(5):403–4 **(Spa)**

CEREBROSPINAL FLUID

Changes in anti–HuD antibody titers in the long–term course in paraneoplastic sensory neuropathy. Yagi Y, et al. **Eur Neurol** 1997;37(2):122–3

Humoral response to hsp 65 and hsp 70 in cerebrospinal fluid in Parkinson's disease. Fiszer U, et al. **J Neurol Sci** 1996 Jul;139(1):66–70

Anti–gabaergic neuron autoantibodies in a patient with stiff–man syndrome and ataxia. Giometto B, et al. **J Neurol Sci** 1996 Nov;143(1–2):57–9

Microglial cerebrospinal fluid antibodies. Significance for Alzheimer disease. McRae A, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):89–95

Immunocytochemical detection of anti–hippocampal antibodies in Alzheimer's disease and normal cerebrospinal fluid. Loeffler DA, et al. **Neurochem Res** 1997 Feb; 22(2):209–14

Identification of peptides specific for cerebrospinal fluid antibodies in multiple sclerosis by using phage libraries. Cortese I, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):11063–7

Antineuronal antibody in a patient with neuroblastoma and opsoclonus–myoclonus–ataxia: a case report. Salmaggi A, et al. **Tumori** 1997 May–Jun;83(3):709–11

[Perspectives in multiple sclerosis research] Lassmann H. **Wien Med Wochenschr** 1996;146(19–20):528–32 (38 ref.) (Eng. Abstr.) **(Ger)**

CHEMISTRY

Functional properties and molecular characteristics of autoantibodies associated with tight skin syndrome. Kasturi K, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:253–62 (39 ref.)

A novel anti–microfilament antibody, anti–135 kD, is associated with Raynaud's disease, undifferentiated connective tissue disease and systemic autoimmune diseases. Girard D, et al. **Autoimmunity** 1996;24(3):167–77

Amino acid sequence of a tryptic peptide of human thyroglobulin reactive with sera of patients with thyroid diseases. Saboori AM, et al. **Autoimmunity** 1995;22(2):87–94

Restricted heterogeneity and changing spectrotypes in autoantibodies to La/SS–B. Satoh M, et al. **Autoimmunity** 1996;24(4):229–36

Characterization of T cell receptor repertoire and anti–Ro/SSA autoantibodies in relation to sialadenitis of NOD mice. Skarstein K, et al. **Autoimmunity** 1995; 22(1):9–16

Anti–RNA polymerase antibodies in systemic sclerosis (SSc): association with anti–topoisomerase I antibodies and identification of autoreactive subunits of RNA polymerase II. Harvey GR, et al. **Clin Exp Immunol** 1996 Sep; 105(3):468–74

Epitope mapping of anti–glomerular basement membrane (GBM) antibodies with synthetic peptides. Hellmark T, et al. **Clin Exp Immunol** 1996 Sep;105(3):504–10

Epitope mapping of the Ro/SSA60KD autoantigen reveals disease–specific antibody–binding profiles. Routsias JG, et al. **Eur J Clin Invest** 1996 Jun;26(6):514–21

Autoantibodies to T–cell receptor beta chains in human heart transplantation: epitope and spectrotype analyses and kinetics of response. Marchalonis JJ, et al. **Exp Clin Immunogenet** 1996;13(3–4):181–91

The nature of autoantigens targeted in autoimmune endocrine diseases. Song YH, et al. **Immunol Today** 1996 May; 17(5):232–38 (82 ref.)

Humoral mechanisms in T cell vaccination: induction and functional characterization of anti–lymphocytic autoantibodies. Herkel J, et al. **J Autoimmun** 1997 Apr; 10(2):137–46

Comparison of IA–2 with IA–2beta and with six other members of the protein tyrosine phosphatase family: recognition of antigenic determinants by IDDM sera. Notkins AL, et al. **J Autoimmun** 1997 Jun;10(3):245–50

Characterization of thyroglobulin–directed and polyreactive catalytic antibodies in autoimmune disease. Paul S, et al. **J Immunol** 1997 Aug 1;159(3):1530–6

Human anti–nuclear ribonucleoprotein antigen autoimmune sera contain a novel subset of autoantibodies that stabilizes the molecular interaction of U1RNP–C protein with the Sm core proteins. Satoh M, et al. **J Immunol** 1997 May 15;158(10):5017–25

Autoantibodies to IA–2 and IA–2 beta in insulin–dependent diabetes mellitus recognize conformational epitopes: location of the 37– and 40–kDa fragments determined. Xie H, et al. **J Immunol** 1997 Oct 1;159(7):3662–7

Mapping of epitopes recognized by PM/Scl autoantibodies with gene–fragment phage display libraries. Blüthner M, et al. **J Immunol Methods** 1996 Nov 13;198(2):187–98

Structural features of nephritogenic lupus autoantibodies. Vargas MT, et al. **Methods** 1997 Jan;11(1):62–9

The antigen–binding domain of a human IgG–anti–F(ab')2

autoantibody. Welschof M, et al.
Proc Natl Acad Sci U S A 1997 Mar 4;94(5):1902–7
Naturally–occurring anti–thymocyte autoantibody which identifies a restricted CD4+CD8+CD3–/lo/int thymocyte subpopulation exhibits extensive polyspecificity. Underwood JR, et al. **Thymus** 1996;24(2):61–88

CLASSIFICATION

IgG subclasses of human autoantibodies. Maran R, et al.
Ann Med Interne (Paris) 1997;148(1):29–38 (113 ref.)
A major, novel systemic lupus erythematosus autoantibody class recognizes the E, F, and G Sm snRNP proteins as an E–F–G complex but not in their denatured states. Brahms H, et al. **Arthritis Rheum** 1997 Apr;40(4):672–82
Subtypes of anti–TSH receptor antibodies classified by various assays using CHO cells expressing wild–type or chimeric human TSH receptor. Watanabe Y, et al.
Thyroid 1997 Feb;7(1):13–9

DIAGNOSTIC USE

Antibodies to beta2–glycoprotein I—a specific marker for the antiphospholipid syndrome. Guerin J, et al.
Clin Exp Immunol 1997 Aug;109(2):304–9
Autoantibodies: diagnostic fingerprints and etiologic perplexities. Fritzler MJ. **Clin Invest Med** 1997 Feb; 20(1):50–66 (174 ref.)
Is human umbilical cord the most suitable substrate for the detection of endomysium antibodies in the screening and follow–up of coeliac disease? [see comments]
Sategna–Guidetti C, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):657–60. Comment in: Eur J Gastroenterol Hepatol 1997 Jul;9(7):655–6.
Antiphospholipid and antiendothelial antibodies. Meroni PL, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):320–5 (46 ref.)
Autoantibodies to the A/B proteins of the heterogeneous nuclear ribonucleoprotein complex: novel tools for the diagnosis of rheumatic diseases. Steiner G, et al.
Int Arch Allergy Immunol 1996 Dec;111(4):314–9 (34 ref.)

DRUG EFFECTS

Raised anti–endothelial cell autoantibodies (AECA), but not anti–neutrophil cytoplasmic autoantibodies (ANCA), in recurrent oral ulceration: modulation of AECA binding by tumour necrosis factor–alpha (TNF–alpha) and interferon–gamma (IFN–gamma). Healy CM, et al.
Clin Exp Immunol 1996 Dec;106(3):523–8
Long–term interferon–alpha therapy induces autoantibodies against epidermis. Fleischmann M, et al. **Dermatology** 1996; 192(1):50–5
Autoantibody production in healthy elderly people is not promoted by interleukin–10 although this cytokine is expressed in them by a peculiar CD8+CD3+ large granular cell subpopulation. Llorente L, et al.
Scand J Immunol 1997 Apr;45(4):401–7

GENETICS

CDRH3 length is the target of selection of disease–associated IgM autoantibodies. Lipsanen V, et al.
Ann N Y Acad Sci 1997 Apr 5;815:448–54
Influence of the light chain repertoire on immunoglobulin genes encoding thyroid autoantibody Fab from combinatorial libraries. Jaume JC, et al. **Autoimmunity** 1996;24(1):11–23
Multiple copies of the idiotope from the V–88 autoantibody are present in germline DNA of both normal and lupus mice. Bellamy J, et al. **Biochem Soc Trans** 1997 May; 25(2):237S
A human monoclonal antiendothelial cell autoantibody uses a VH gene associated with an anti–DNA autoantibody. Yazici ZA, et al. **Biochem Soc Trans** 1997 May;25(2):321S
Islet cell antibodies in diabetes mellitus associated with a mitochondrial tRNA(Leu(UUR)) gene mutation. Oexle K, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):212–7
Evidence for autoimmunity to myosin and other heart–specific autoantigens in patients with dilated cardiomyopathy and their relatives. Caforio AL, et al.
Int J Cardiol 1996 May;54(2):157–63 (51 ref.)
Interplay of four idiotypes and interaction with autoantibodies in lupus patients, their relatives and their spouses. Youinou P, et al. **J Autoimmun** 1996 Dec; 9(6):767–75
Effects of breeding environments on generation and activation of autoreactive B–1 cells in anti–red blood cell autoantibody transgenic mice. Murakami M, et al.
J Exp Med 1997 Feb 17;185(4):791–4
Cloning and analysis of IgG kappa and IgG lambda anti–thyroglobulin autoantibodies from a patient with Hashimoto's thyroiditis: evidence for in vivo antigen–driven repertoire selection. McIntosh RS, et al.
J Immunol 1996 Jul 15;157(2):927–35
Maturation of the antibody response to the major epitope on the self antigen mouse cytochrome c. Restricted V gene usage, selected mutations, and increased affinity. Mueller CM, et al. **J Immunol** 1996 Dec 15;157(12):5329–38
Structural analysis of human antibodies to proteinase 3 from patients with Wegener granulomatosis. Sibilia J, et al.
J Immunol 1997 Jul 15;159(2):712–9
Backcross analysis of genes linked to autoantibody production in New Zealand White mice. Vyse TJ, et al.
J Immunol 1996 Sep 15;157(6):2719–27
HLA class II alleles and autoantibodies in Bulgarians with systemic lupus erythematosus. Marintchev LM, et al.
Tissue Antigens 1995 Nov;46(5):422–5
[Diagnostic strategies in rheumatology. 4: Laboratory diagnosis—autoantibodies, immunogenetics and diagnosis of inflammation] Genth E. **Fortschr Med** 1997 Apr 20; 115(11):49–51 **(Ger)**

IMMUNOLOGY

Comparison of the islet cell antibody pattern of monoclonal glutamic acid decarboxylase antibodies recognizing linear and conformational epitopes. Augstein P, et al.
Acta Histochem 1996 Apr;98(2):229–41
Identification of different circulating autoantibodies in patients with bullous pemphigoid and pemphigus vulgaris by means of immunoblotting. Kiss M, et al.
Acta Microbiol Immunol Hung 1996;43(2–3):115–23
Antibodies against endothelial cells in patients with multiple sclerosis. Tintore M, et al. **Acta Neurol Scand** 1996 Jun; 93(6):416–20
Natural and recombinant anti–IgE autoantibodies. Stadler BM, et al. **Adv Exp Med Biol** 1996;409:411–6
Autoantibodies against components of renal basement membrane. Hellmark T, et al.
Adv Nephrol Necker Hosp 1997;26:291–302 (41 ref.)
Nonsecretory IgA1 autoantibodies targeting desmosomal component desmoglein 3 in intraepidermal neutrophilic IgA dermatosis. Wang J, et al. **Am J Pathol** 1997 Jun; 150(6):1901–7
Human autoantibodies recognizing human and mouse preimplantation stages. Nilsson BO, et al.
Am J Reprod Immunol 1996 Sep;36(3):135–40
Clinical significance of anti–beta 2–glycoprotein I antibodies. Amengual O, et al. **Ann Med Interne (Paris)** 1996 Sep;147 Suppl 1:15–7 (28 ref.)
Natural autoantibodies, tolerance, and autoimmunity. Dighiero G. **Ann N Y Acad Sci** 1997 Apr 5;815:182–92 (86 ref.)
Fine specificity analysis of autoantibodies to T cell receptor CDR1 segments in rheumatoid arthritis. Landsperger WJ, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:459–61
Lactoferrin–reactive natural antibodies. Manchester KM, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:475–7
Molecular mimicry in human aortic aneurysmal diseases. Ozsvath KJ, et al. **Ann N Y Acad Sci** 1996 Nov 18; 800:288–93
Antigenic determinants in type 1 diabetes mellitus. Review article. Dotta F, et al. **APMIS** 1996 Nov;104(11):769–74 (39 ref.)
Expression of human leukocyte antigens in patients with autogenic and allogenic circulating antisperm antibodies. Omu AE, et al. **Arch Androl** 1996 Nov–Dec;37(3):155–62
Induction of band 3 aggregation in erythrocytes results in anti–band 3 autoantibody binding to the carbohydrate epitopes of band 3. Ando K, et al.
Arch Biochem Biophys 1997 Mar 1;339(1):250–7
Do anti–basement membrane zone antibodies cause some cases of 'senile pruritus'? [letter] Bernhard JD.
Arch Dermatol 1997 Aug;133(8):1049–50
Microscopic polyangiitis. Delineation of a cutaneous–limited variant associated with antimyeloperoxidase autoantibody. Irvine AD, et al. **Arch Dermatol** 1997 Apr;133(4):474–7
Relationship between the in vivo localization and the immunoblotting pattern of anti–basement membrane zone antibodies in patients with bullous pemphigoid. Joly P, et al. **Arch Dermatol** 1997 Jun;133(6):719–24
Hair follicle structures targeted by antibodies in patients with alopecia areata. Tobin DJ, et al. **Arch Dermatol** 1997 Jan; 133(1):57–61
Binding of autoantibodies is not restricted to desmosomes in pemphigus vulgaris: comparison of 14 cases of pemphigus vulgaris and 10 cases of pemphigus foliaceus studied by western immunoblot and immunoelectron microscopy. Bédane C, et al. **Arch Dermatol Res** 1996 Jun; 288(7):343–52
Role of antiribosomal P protein antibodies in the diagnosis of lupus isolated to the central nervous system. Agius MA, et al. **Arch Neurol** 1997 Jul;54(7):862–4
Epitope specificity of anti–heat shock protein 65/60 serum antibodies in atherosclerosis. Metzler B, et al.
Arterioscler Thromb Vasc Biol 1997 Mar;17(3):536–41
A major, novel systemic lupus erythematosus autoantibody class recognizes the E, F, and G Sm snRNP proteins as an E–F–G complex but not in their denatured states. Brahms H, et al. **Arthritis Rheum** 1997 Apr;40(4):672–82
Treatment of acquired factor VIII inhibitor using intravenous immunoglobulin in two patients with systemic lupus erythematosus. Lafferty TE, et al. **Arthritis Rheum** 1997 Apr;40(4):775–8
Majority of thyroid peroxidase autoantibodies in patients with autoimmune thyroid disease are directed to a single TPO domain. Czarnocka B, et al. **Autoimmunity** 1996; 23(3):145–54
Insight into screening immunoglobulin gene combinatorial libraries in a phage display vector: a tale of two antibodies. Kakinuma A, et al. **Autoimmunity** 1997;25(2):73–84
The effect of soluble complement receptor 1 (sCR1) and human thyroid antibodies on the course of experimental autoimmune thyroiditis in rats. Metcalfe RA, et al.
Autoimmunity 1996;23(1):1–8
Influence of adjuvants on the induction of autoantibodies to the thyrotropin receptor. Seetharamaiah GS, et al.
Autoimmunity 1996;24(4):205–15
Anti–ganglioside antibodies in new onset type 1 diabetic patients and high risk subjects. Tiberti C, et al.
Autoimmunity 1995;22(1):43–8
Relation between antibodies to islet cell antigens, other autoantigens and cow's milk proteins in diabetic children and unaffected siblings at the clinical manifestation of IDDM. The Childhood Diabetes in Finland Study Group. Vähäsalo P, et al. **Autoimmunity** 1996;23(3):165–74
A human autoantibody recognizing nuclear matrix–associated nuclear protein localized in dot structures. Zuber M, et al. **Biol Cell** 1995;85(1):77–86
Characterization of human sperm antigens reacting with sperm antibodies from autologous serum and seminal plasma in an infertile population. Paradisi R, et al.
Biol Reprod 1996 Jul;55(1):54–61
The inhibitor antibody response is more complex in hemophilia A patients than in most nonhemophiliacs with factor VIII autoantibodies. Recombinate and Kogenate Study Groups. Prescott R, et al. **Blood** 1997 May 15; 89(10):3663–71
The V4–34 encoded anti–i autoantibodies recognize a large subset of human and mouse B–cells. Silberstein LE, et al.
Blood Cells Mol Dis 1996;22(2):126–38
Study of autoantibodies against the adenine nucleotide translocator in idiopathic dilated cardiomyopathy. Zhang WG, et al. **Blood Press Suppl** 1996;3:45–8
A non–thrombocytopenic bleeding disorder due to an IgG4–kappa anti–GPIIb/IIIa autoantibody. McMillan R, et al. **Br J Haematol** 1996 Dec;95(4):747–9
Diclofenac–induced immune haemolytic anaemia: simultaneous occurrence of red blood cell autoantibodies and drug–dependent antibodies. Salama A, et al.
Br J Haematol 1996 Dec;95(4):640–4
Antineutrophil cytoplasmic antibodies in systemic lupus erythematosus. Spronk PE, et al. **Br J Rheumatol** 1996 Jul; 35(7):625–31
Lack of recognition of a mouse centromere by anti–centromere proteins. Vig BK.
Cancer Genet Cytogenet 1996 Oct 15;91(2):101–3
Autoantibody to p185erbB2/neu oncoprotein by vaccination with xenogenic DNA. Concetti A, et al.
Cancer Immunol Immunother 1996 Dec;43(5):307–15
Poly–N–acetyllactosaminyl saccharide chains of band 3 as determinants for anti–band 3 autoantibody binding to senescent and oxidized erythrocytes. Beppu M, et al.
Cell Mol Biol (Noisy–le–grand) 1996 Nov;42(7):1007–24 (95 ref.)
Cardiac autoantibodies in dilated cardiomyopathy: a pathogenetic role? [editorial; comment] Limas CJ.
Circulation 1997 Apr 15;95(8):1979–80. Comment on: Circulation 1997 Apr 15;95(8):1994–7.
Effect of anti–thyroid peroxidase (TPO) antibodies on TPO activity measured by chemiluminescence assay. Kaczur V, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1392–6
Celiac disease and hypoparathyroidism: cross–reaction of endomysial antibodies with parathyroid tissue. Kumar V, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):143–6
Reversible primary hypothyroidism with blocking or stimulating type TSH binding inhibitor immunoglobulin following recombinant interferon–alpha therapy in patients with pre–existing thyroid disorders. Chen FQ, et al.
Clin Endocrinol (Oxf) 1996 Aug;45(2):207–14
Anti–native and recombinant myeloperoxidase monoclonals and human autoantibodies. Audrain MA, et al.
Clin Exp Immunol 1997 Jan;107(1):127–34
Isolation of antigens recognized by coeliac disease autoantibodies and their use in enzyme immunoassay of endomysium and reticulin antibody–positive human sera. Börner H, et al. **Clin Exp Immunol** 1996 Nov;106(2):344–50
Autoantibody reactive with the human general transcription factor TFIIF in sera from patients with autoimmune disorders. Cai Y, et al. **Clin Exp Immunol** 1997 Sep; 109(3):488–94
Relevance of lymphoproliferative disorders and of anti–C1 inhibitor autoantibodies in acquired angio–oedema. Cicardi M, et al. **Clin Exp Immunol** 1996 Dec;106(3):475–80
Antibodies to endothelial cells in Kawasaki disease lyse endothelial cells without cytokine pretreatment. Fujieda M, et al. **Clin Exp Immunol** 1997 Jan;107(1):120–6
Antibodies to membranes of endothelial cells and fibroblasts in scleroderma. Hill MB, et al. **Clin Exp Immunol** 1996 Dec;106(3):491–7
Expression of human–Torpedo hybrid acetylcholine receptor (AChR) for analysing the subunit specificity of antibodies in sera from patients with myasthenia gravis (MG). Loutrari H, et al. **Clin Exp Immunol** 1997 Sep;109(3):538–46
Study of the B cell response to cytochrome P450IID6 in sera from chronic hepatitis C patients. Parez N, et al.
Clin Exp Immunol 1996 Nov;106(2):336–43
Binding and internalization of human IgG by living cultured endothelial cells. Ronda N, et al. **Clin Exp Immunol** 1997 Jul;109(1):211–6
Fine specificity of autoantibodies to La/SSB: epitope mapping, and characterization. Tzioufas AG, et al.
Clin Exp Immunol 1997 May;108(2):191–8
Antibodies to Jo–1 and Ro–52: why do they go together? [editorial] Venables PJ. **Clin Exp Immunol** 1997 Sep; 109(3):403–5
The cross–reactivity of autoantibodies in connective tissue diseases. Caponi L. **Clin Exp Rheumatol** 1996 Jul–Aug;

14(4):425–31 (63 ref.)

Autoantibodies—diagnostic, pathogenic and prognostic relevance. Conrad K, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):457–65

Non-organ specific autoantibodies against cellular components in HIV-1 infected individuals. Kordossis T, et al. **Clin Exp Rheumatol** 1997 Mar–Apr;15(2):185–8

IgG autoantibodies to complement C1q in pediatric-onset systemic lupus erythematosus. Ravelli A, et al. **Clin Exp Rheumatol** 1997 Mar–Apr;15(2):215–9

Benign monoclonal gammopathy with IgG anti-DNA, anti-Sm and anti-F(ab')2 activity. Williams RC Jr, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):33–8

Autoantibody production and cytokine profiles of MHC class I (beta2-microglobulin) gene deleted New Zealand black (NZB) mice. Chen SY, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):318–27

Analysis of autoantibodies to T-cell receptors among HIV-infected individuals: epitope analysis and time course. Marchalonis JJ, et al. **Clin Immunol Immunopathol** 1997 Feb;82(2):174–89

B-lymphocytes and autoantibody profiles in HIV disease. Ng VL. **Clin Rev Allergy Immunol** 1996–97 Winter; 14(4):367–84 (77 ref.)

The antibody response in human autoimmune thyroid disease [editorial] McIntosh RS, et al. **Clin Sci (Colch)** 1997 Jun; 92(6):529–41 (110 ref.)

Mechanisms of activity of lupus anticoagulants. Rao LV. **Curr Opin Hematol** 1997 Sep;4(5):344–50 (40 ref.)

Anti-IgE and anti-Fc epsilon RI autoantibodies in clinical allergy. Fiebiger E, et al. **Curr Opin Immunol** 1996 Dec; 8(6):784–9 (40 ref.)

Structures targeted by the immune system in myositis. Mimori T. **Curr Opin Rheumatol** 1996 Nov;8(6):521–7 (69 ref.)

Reproducibility and persistence of neural and adrenal autoantibodies in diabetic autonomic neuropathy. Cachia MJ, et al. **Diabet Med** 1997 Jun;14(6):461–5

Interactions of age, islet cell antibodies, insulin autoantibodies, and first-phase insulin response in predicting risk of progression to IDDM in ICA+ relatives: the ICARUS data set. Islet Cell Antibody Register Users Study. Bingley PJ. **Diabetes** 1996 Dec;45(12):1720–8

Prediction of type 1 diabetes postpartum in patients with gestational diabetes mellitus by combined islet cell autoantibody screening: a prospective multicenter study. Füchtenbusch M, et al. **Diabetes** 1997 Sep;46(9):1459–67

Low prevalence of islet autoantibodies in patients with gestational diabetes mellitus. Dozio N, et al. **Diabetes Care** 1997 Jan;20(1):81–3

The use of immunological markers in IDDM after more than 20 years from ICA description. Dotta F, et al. **Diabetes Metab Rev** 1996 Jul;12(2):121–6 (37 ref.)

Islet cell autoimmunity in women with gestational diabetes and risk of progression to insulin-dependent diabetes mellitus. Mauricio D, et al. **Diabetes Metab Rev** 1996 Dec; 12(4):275–85 (66 ref.)

Islet-cell antibodies in malnutrition-related diabetes mellitus from north India. Dabadghao P, et al. **Diabetes Res Clin Pract** 1996 Oct;34(2):73–8

Folding-dependent binding of thyrotropin (TSH) and TSH receptor autoantibodies to the murine TSH receptor ectodomain. Vlase H, et al. **Endocrinology** 1997 Apr; 138(4):1658–66

Islet cell autoantibodies: a family storym [comment] Gale EA. **Eur J Endocrinol** 1996 Dec;135(6):643–4. Comment on: Eur J Endocrinol 1996 Dec;135(6):689–95.

c-myc expression is associated with increased proliferation activity in thyroid follicular cells of Graves' disease as stimulated by autoantibodies [see comments] Kashima K, et al. **Eur J Endocrinol** 1996 Jul;135(1):69–76. Comment in: Eur J Endocrinol 1996 Jul;135(1):39–45.

A complementarity-determining region peptide of an anti-desmosome autoantibody may interact with the desmosomal plaque through molecular mimicry with a cytoplasmic desmoglein 1 sequence. Gilbert D, et al. **Eur J Immunol** 1997 May;27(5):1055–60

Autoantibody-associated sensory neuronopathy and intestinal pseudo-obstruction without detectable neoplasia. Briellmann RS, et al. **Eur Neurol** 1996;36(6):369–73 (26 ref.)

Autoantibodies to T-cell receptor beta chains in human heart transplantation: epitope and spectrotype analyses and kinetics of response. Marchalonis JJ, et al. **Exp Clin Immunogenet** 1996;13(3–4):181–91

Intracytoplasmic sperm injection for treating infertility associated with sperm autoimmunity. Clarke GN, et al. **Fertil Steril** 1997 Jul;68(1):112–7

Autoimmunity in myocarditis and dilated cardiomyopathy: cardiac autoantibody frequency and clinical correlates in a patient series from Italy. Caforio AL, et al. **G Ital Cardiol** 1997 Feb;27(2):106–12

Goblet cell autoantibodies in patients with inflammatory bowel disease and their first-degree relatives. Folwaczny C, et al. **Gastroenterology** 1997 Jul;113(1):101–6

Autoimmune hemolytic anemia with anti-DC specificity following a primary infection by Varicella virus [letter] Sanchis Cervera J, et al. **Haematologica** 1997 Jul–Aug; 82(4):508–9

Target platelet antigens of autoantibodies in patients with primary biliary cirrhosis. Feistauer SM, et al. **Hepatology** 1997 Jun;25(6):1343–5

Absence of circulating adrenal autoantibodies in adult-onset X-linked adrenoleukodystrophy. Laureti S, et al. **Horm Metab Res** 1996 Jul;28(7):319–22

Incidence of anti-mouse antibodies in thrombocytopenic patients with autoimmune disorders. Clofent-Sanchez G, et al. **Hum Antibodies** 1997;8(2):50–9

The emerging concept of pathogenic natural autoantibodies. George J, et al. **Hum Antibodies** 1997;8(2):70–5 (49 ref.)

Human CD4-reactive antibodies from SLE patients induce reversible inhibition of polyclonal T lymphocyte proliferation. Lenert G, et al. **Hum Immunol** 1996 Sep 1; 49(2):113–21

Immunological causes of ovarian infertility and repeated implantation failure—two aspects of the same problem? [comment] Christiansen OB. **Hum Reprod** 1997 Apr; 12(4):638–9. Comment on: Hum Reprod 1997 Apr;12(4):637.

Immunosuppressive activities in the seminal plasma of infertile men: relationship to sperm antibodies and autoimmunity. Imade GE, et al. **Hum Reprod** 1997 Feb; 12(2):256–62

Tryptophanyl-tRNA synthetase as a human autoantigen. Paley EL, et al. **Immunol Lett** 1995 Dec;48(3):201–7

Islet cell and glutamic acid decarboxylase antibodies and heat-shock protein 65 responses in children with newly diagnosed insulin-dependent diabetes mellitus. Scheinin T, et al. **Immunol Lett** 1996 Jan;49(1–2):123–6

Unique site of IgG2a and rheumatoid factor production in MRL/lpr mice. Jacobson BA, et al. **Immunol Rev** 1997 Apr;156:103–10 (65 ref.)

Trypanosome variant surface glycoproteins are recognized by self-reactive antibodies in uninfected hosts. Müller N, et al. **Infect Immun** 1996 Nov;64(11):4593–7

A monoclonal natural autoantibody that promotes remyelination suppresses central nervous system inflammation and increases virus expression after Theiler's virus-induced demyelination. Miller DJ, et al. **Int Immunol** 1996 Jan;8(1):131–41

Characterization of human sperm antigens reacting with antisperm antibodies from autologous sera and seminal plasma: comparison among infertile subpopulations. Paradisi R, et al. **Int J Androl** 1996 Dec;19(6):345–52

Localized diffuse large-cell lymphoma possibly coated with anti-tumor autoantibody: kappa lambda-dual-positive lymphoma. Nakano M, et al. **Int J Hematol** 1997 Apr; 65(3):299–304

Stress-induced rise in serum anti-brain autoantibody levels in the rat. Andrejević S, et al. **Int J Neurosci** 1997 Feb; 89(3–4):153–64

Autoantibodies against oxidized low-density lipoproteins in older stroke patients [letter] Cherubini A, et al. **J Am Geriatr Soc** 1997 Jan;45(1):125

In vivo ANA is a fixation artifact: nucleosome-complexed antinucleosome autoantibodies bind to the cell surface and are internalized. Kramers K, et al. **J Am Soc Nephrol** 1996 Jun;7(6):946–54

Hypertriglyceridemia caused by the autoantibody to lipases for plasma lipoproteins: a case report. Okamoto Y, et al. **J Atheroscler Thromb** 1995;2(1):66–9

The penetration of autoantibodies into cells may induce tolerance to self by apoptosis of autoreactive lymphocytes and cause autoimmune disease by dysregulation and/or cell damage. Alarcón-Segovia D, et al. **J Autoimmun** 1996 Apr; 9(2):295–300

Do naturally occurring autoantibodies participate in the constitution of the pathological B-cell repertoire in systemic lupus erythematosus? Gilbert D, et al. **J Autoimmun** 1996 Apr;9(2):247–57 (72 ref.)

Reactivity of islet cell antibodies (ICA) to recombinant glutamic acid decarboxylase (GAD). Guazzarotti L, et al. **J Autoimmun** 1995 Dec;8(6):901–14

Antibodies in the sera of acute rheumatic fever patients bind to human cardiac tropomyosin. Khanna AK, et al. **J Autoimmun** 1997 Feb;10(1):99–106

Anti-Fc gamma receptor autoantibodies from patients with Sjögren's syndrome do not react with native receptor on human polymorphonuclear leukocytes. Lamour A, et al. **J Autoimmun** 1996 Apr;9(2):181–91

Detection of human-specific anti-la(SSB) antibodies in patients with rheumatoid arthritis. Manoussakis MN, et al. **J Autoimmun** 1995 Dec;8(6):959–69

Common infections, idiotypic dysregulation, autoantibody spread and induction of autoimmune diseases. Shoenfeld Y. **J Autoimmun** 1996 Apr;9(2):235–9 (39 ref.)

Engineering the human thyrotropin receptor ectodomain from a non-secreted form to a secreted, highly immunoreactive glycoprotein that neutralizes autoantibodies in Graves' patients' sera. Chazenbalk GD, et al. **J Biol Chem** 1997 Jul 25;272(30):18959–65

Desensitization and sequestration of human m2 muscarinic acetylcholine receptors by autoantibodies from patients with Chagas' disease. Leiros CP, et al. **J Biol Chem** 1997 May 16;272(20):12989–93

Antibodies to interferon in patients undergoing IFN therapy: an update. Antonelli G. **J Biol Regul Homeost Agents** 1995 Oct-Dec;9(4):123–31 (84 ref.)

Anti-DNA antibody kinetics following selective removal by adsorption using dextran sulphate cellulose columns in patients with systemic lupus erythematosus. Suzuki K, et al. **J Clin Apheresis** 1996;11(1):16–22

Immunoglobulin G kappa antithyroid peroxidase antibodies in Hashimoto's thyroiditis: epitope-mapping analysis. Czarnocka B, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2639–44

Thyrotropin (TSH) receptor autoantibodies do not appear to bind to the TSH receptor produced in an in vitro transcription/translation system. Prentice L, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1288–92

Human B cells secreting immunoglobulin G to glutamic acid decarboxylase-65 from a nondiabetic patient with multiple autoantibodies and Graves' disease: a comparison with those present in type 1 diabetes. Tremble J, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2664–70

Increased incidence of neutralizing autoantibodies against interleukin-1 alpha (IL-1 alpha) in nondestructive chronic polyarthritis. Jouvenne P, et al. **J Clin Immunol** 1996 Sep; 16(5):283–90

Repertoire cloning of lupus anti-DNA autoantibodies. Roben P, et al. **J Clin Invest** 1996 Dec 15;98(12):2827–37

Recognition of the immunodominant myelin basic protein peptide by autoantibodies and HLA-DR2-restricted T cell clones from multiple sclerosis patients. Identity of key contact residues in the B-cell and T-cell epitopes. Wucherpfennig KW, et al. **J Clin Invest** 1997 Sep 1; 100(5):1114–22

Characterization of autoantibody activities in sera anti-DNA antibody and circulating immune complexes from 12 systemic lupus erythematosus patients. Adyel FZ, et al. **J Clin Lab Anal** 1996;10(6):451–7

Role of repetitive antigen patterns for induction of antibodies against antibodies [see comments] Fehr T, et al. **J Exp Med** 1997 May 19;185(10):1785–92. Comment in: J Exp Med 1997 May 19;185(10):1721–3.

Neutrophil activation by anti-proteinase 3 antibodies in Wegener's granulomatosis: role of exogenous arachidonic acid and leukotriene B4 generation. Grimminger F, et al. **J Exp Med** 1996 Oct 1;184(4):1567–72

A disease-related rheumatoid factor autoantibody is not tolerized in a normal mouse: implications for the origins of autoantibodies in autoimmune disease. Hannum LG, et al. **J Exp Med** 1996 Oct 1;184(4):1269–78

Autoantibody against a 78 kDa membrane protein of HepG2 cell in the sera of patients with alcoholic liver diseases. Numata T, et al. **J Gastroenterol** 1995 Dec;30(6):751–7

Immunoreactivity of antimitochondrial autoantibodies in Japanese patients with primary biliary cirrhosis. Omagari K, et al. **J Gastroenterol** 1996 Feb;31(1):61–8

Identification of an autoantibody against alpha-enolase in primary biliary cirrhosis. Akisawa N, et al. **J Hepatol** 1997 Apr;26(4):845–51

Low hepatitis C viremia levels in patients with anti-liver/kidney microsomal antibody type 1 positive chronic hepatitis. Giostra F, et al. **J Hepatol** 1996 Oct; 25(4):433–8

Multi-organ reactivity of a monoclonal natural autoantibody that promotes remyelination in a mouse model of multiple sclerosis. Miller DJ, et al. **J Histochem Cytochem** 1996 Sep; 44(9):1005–11

Structural and affinity studies of IgM polyreactive natural autoantibodies. Diaw L, et al. **J Immunol** 1997 Jan 15; 158(2):968–76

Structural and functional analysis of the B cell epitopes recognized by anti-receptor autoantibodies in patients with Chagas' disease. Elies R, et al. **J Immunol** 1996 Nov 1; 157(9):4203–11

B cell genotype determines the fine specificity of autoantibody in lpr mice. Kakkanaiah VN, et al. **J Immunol** 1997 Jul 15;159(2):1027–35

Anti-IL-8 autoantibodies in alveolar fluid from patients with the adult respiratory distress syndrome. Kurdowska A, et al. **J Immunol** 1996 Sep 15;157(6):2699–706

Autoantibodies in insulin-dependent diabetes recognize distinct cytoplasmic domains of the protein tyrosine phosphatase-like IA-2 autoantigen. Lampasona V, et al. **J Immunol** 1996 Sep 15;157(6):2707–11

Autoantibodies to ribosomal P antigens with immune complex glomerulonephritis in SJL mice treated with pristane. Satoh M, et al. **J Immunol** 1996 Oct 1; 157(7):3200–6

Immune reactivity of diabetes-associated human monoclonal autoantibodies defines multiple epitopes and detects two domain boundaries in glutamate decarboxylase. Syren K, et al. **J Immunol** 1996 Dec 1;157(11):5208–14

A natural IgA-anti-F(ab')2gamma autoantibody occurring in healthy individuals and kidney graft recipients recognizes an IgG1 hinge region epitope. Terness P, et al. **J Immunol** 1996 Nov 1;157(9):4251–7

The anti-beta2-glycoprotein I activity in human anti-phospholipid syndrome sera is due to monoreactive low-affinity autoantibodies directed to epitopes located on native beta2-glycoprotein I and preserved during species' evolution. Tincani A, et al. **J Immunol** 1996 Dec 15; 157(12):5732–8

Control of multiple autoantibodies linked with a lupus nephritis susceptibility locus in New Zealand black mice. Vyse TJ, et al. **J Immunol** 1997 Jun 1;158(11):5566–74

Autoantibody-mediated capture and presentation of autoantigen to T cells via the Fc epsilon receptor by a recombinant human autoantibody Fab converted to IgE. Guo J, et al. **J Immunol Methods** 1996 Sep 9;195(1–2):81–92

Natural autoantibodies to interferons. Meager A. **J Interferon Cytokine Res** 1997 Jul;17 Suppl 1:S51–3 (26 ref.)

Bullous pemphigoid and cicatricial pemphigoid autoantibodies react with ultrastructurally separable

epitopes on the BP180 ectodomain: evidence that BP180 spans the lamina lucida. Bédane C, et al. **J Invest Dermatol** 1997 Jun;108(6):901–7

Laminin–6 and laminin–5 are recognized by autoantibodies in a subset of cicatricial pemphigoid. Chan LS, et al. **J Invest Dermatol** 1997 Jun;108(6):848–53

Noncomplement fixing, IgG4 autoantibodies predominate in patients with anti–epiligrin cicatricial pemphigoid. Hsu R, et al. **J Invest Dermatol** 1997 Oct;109(4):557–61

Tight clustering of extracellular BP180 epitopes recognized by bullous pemphigoid autoantibodies. Zillikens D, et al. **J Invest Dermatol** 1997 Oct;109(4):573–9

A novel subepidermal blistering disease with autoantibodies to a 200–kDa antigen of the basement membrane zone [corrected and republished article originally printed in J Invest Dermatol 1996 Mar;106(3):465–70] Zillikens D, et al. **J Invest Dermatol** 1996 Jun;106(6):1333–8

Haemolysis in hepatitis A virus infections coinciding with the occurrence of autoantibodies against triosephosphate isomerase and the reactivation of latent persistent Epstein–Barr virus infection. Ritter S, et al. **J Med Virol** 1996 Nov;50(3):272–5

Analysis of autoantibodies to plasminogen in the serum of patients with rheumatoid arthritis. Gonzalez–Gronow M, et al. **J Mol Med** 1996 Aug;74(8):463–9

Are plasminogen antibodies in rheumatoid arthritis of pathogenic significance? Luft FC. **J Mol Med** 1996 Aug; 74(8):413–4

Evidence that natural autoantibodies against the nerve growth factor (NGF) may be potential carriers of NGF. Dicou E, et al. **J Neuroimmunol** 1997 May;75(1–2):200–3

Enhancement of EAE and induction of autoantibodies to T–cell epitopes in mice infected with a recombinant vaccinia virus encoding myelin proteolipid protein. Wang LY, et al. **J Neuroimmunol** 1997 May;75(1–2):75–83

Autoantibodies to peripheral nerve glycosphingolipids SPG, SLPG, and SGPG in Guillain–Barré syndrome and chronic inflammatory demyelinating polyneuropathy. Yuki N, et al. **J Neuroimmunol** 1996 Oct;70(1):1–6

Expression of glutamic acid decarboxylase in nervous tissue structures targeted by autoantibodies in patients with diabetic autonomic neuropathy. Zanone MM, et al. **J Neuroimmunol** 1997 Sep;78(1–2):1–7

Synthesis of anti–acetylcholine receptor antibodies by CD5–B cells from peripheral blood of myasthenia gravis patients. Heidenreich F, et al. **J Neurol** 1996 Jan;243(1):57–62

Systemic and anti–neuronal auto–antibodies in patients with paraneoplastic neurological disease. Moll JW, et al. **J Neurol** 1996 Jan;243(1):51–6

Polyneuropathies associated with high titre antisulphatide antibodies: characteristics of patients with and without serum monoclonal proteins. Lopate G, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):581–5

Possible mechanism of intravenous immunoglobulin treatment on anti–GM1 antibody–mediated neuropathies. Yuki N, et al. **J Neurol Sci** 1996 Jul;139(1):160–2

The clinical approach to thyroid disorders associated with childhood insulin dependent diabetes mellitus. Jefferson IG. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:95–100 (32 ref.)

Prevalence of antibodies to hepatitis C and herpes simplex virus type 1 is not increased in children with liver kidney microsomal type 1 autoimmune hepatitis. Gregorio GV, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):534–7

Autoantibodies and infertility: a review of the literature. Van Voorhis BJ, et al. **J Reprod Immunol** 1997 Jul;33(3):239–56 (56 ref.)

Systemic lupus erythematosus in childhood. Concordance in a pair of monozygotic twins for anti–dsDNA antibodies and discordance for disease expression [letter] Bustabad S, et al. **J Rheumatol** 1997 Jul;24(7):1450–1 (7 ref.)

Autoantibodies reactive with Ro(SSA) and La(SSB) and pregnancy. Buyon JP. **J Rheumatol** 1997 Sep;24 Suppl 50:12–6 (47 ref.)

Characterization of antinucleolar antibody reactivity in patients with systemic sclerosis and their relatives. Harvey G, et al. **J Rheumatol** 1997 Mar;24(3):477–84

Antiphospholipid antibodies among anti–U1–70 kDa autoantibody positive patients with mixed connective tissue disease. Komatireddy GR, et al. **J Rheumatol** 1997 Feb; 24(2):319–22

Scleroderma–polymyositis overlap syndrome associated with anti–Ku antibody and rimmed vacuole formation. Yamanishi Y, et al. **J Rheumatol** 1996 Nov;23(11):1991–4

Autoimmune enteropathy in adults [letter] Mirakian R, et al. **Lancet** 1997 Sep 27;350(9082):959–60

Systemic lupus erythematosus with acanthosis nigricans, hyperpigmentation, and insulin receptor antibody. Baird JS, et al. **Lupus** 1997;6(3):275–8

Autoantibody profile in African–American patients with lupus nephritis. Garcia CO, et al. **Lupus** 1996 Dec; 5(6):602–5

Are antibodies to ribosomal P proteins a clinically useful predictor of neuropsychiatric manifestations in patients with systemic lupus erythematosus? [letter; comment] Iverson GL. **Lupus** 1996 Dec;5(6):634–5. Comment on: Lupus 1996 Jun;5(3):178–83.

Development of squamous cell carcinoma in chronic discoid lupus erythematosus: a report of two patients with anti–Ro/SSA antibodies [letter] Miyagawa S, et al. **Lupus** 1996 Dec;5(6):630–2

Antibodies to fibrin–bound tissue–type plasminogen activator in systemic lupus erythematosus are associated with Raynaud's phenomenon and thrombosis. Salazar–Paramo M, et al. **Lupus** 1996 Aug;5(4):275–8

Variable regions of two murine antibodies that bind the SLE associated 16/6 idiotype. Waisman A, et al. **Lupus** 1996 Aug;5(4):279–87

Autoantibodies to nucleosomes and histone–DNA complexes. Monestier M. **Methods** 1997 Jan;11(1):36–43

Selection of recurrent V genes and somatic mutations in autoantibodies to DNA. Radic MZ, et al. **Methods** 1997 Jan;11(1):20–6

Clinical relevance of autoantibodies in systemic rheumatic diseases. Fritzler MJ. **Mol Biol Rep** 1996;23(3–4):133–45 (204 ref.)

RNA recognition by autoantigens and autoantibodies. Keene JD. **Mol Biol Rep** 1996;23(3–4):173–81 (63 ref.)

Clinical and immunological aspects of autoantibodies to RA33/hnRNP–A/B proteins—a link between RA, SLE and MCTD. Steiner G, et al. **Mol Biol Rep** 1996; 23(3–4):167–71 (29 ref.)

Autoantibodies recognizing proteins copurified with PCNA in patients with connective tissue diseases. Takeuchi K, et al. **Mol Biol Rep** 1996;23(3–4):243–6

Normal human epidermal keratinocytes express in vitro specific molecular forms of (pro)filaggrin recognized by rheumatoid arthritis–associated antifilaggrin autoantibodies. Girbal–Neuhauser E, et al. **Mol Med** 1997 Feb;3(2):145–56

An islet–cell protein tyrosine phosphatase is a likely precursor to the 37–kDa autoantigen in type 1 diabetes: human and macaque sequences, tissue distribution, unique and shared epitopes, and predictive autoantibodies. LaGasse J, et al. **Mol Med** 1997 Mar;3(3):163–73

Detection of antibody classes and subpopulations in myasthenia gravis patients using a new nonradioactive enzyme immunoassay. Gotti C, et al. **Muscle Nerve** 1997 Jul;20(7):800–8

Specificity of autoantibodies react with omega–conotoxin MVIIC–sensitive calcium channel in Lambert–Eaton myasthenic syndrome. Suenaga A, et al. **Muscle Nerve** 1996 Sep;19(9):1166–8

Scleroderma: a disease related to damaged proteins? [news] Peng SL, et al. **Nat Med** 1997 Mar;3(3):276–8

Antineutrophil cytoplasmic autoantibodies (ANCA) and systemic sclerosis. Carvajal I, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):576–7

Systemic vasculitis with antineutrophil cytoplasmic autoantibodies (ANCA) in three dental technicians. Grateau G, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):578–81

Hypocomplementaemia in a newborn caused by transplacental passage of maternal autoantibody with C3 nephritic factor (C3 NeF) activity [letter] Weiss L, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2374

5–year follow–up of patients successfully transplanted after immunoadsorption to remove anti–HLA antibodies. Higgins RM, et al. **Nephron** 1996;74(1):53–7

Antibodies directed to sonicated human endothelial cells in patients with vasculitis [letter] Rollino C, et al. **Nephron** 1996;73(2):346–7

Effects of intravenous immunoglobulin on muscle weakness and calcium–channel autoantibodies in the Lambert–Eaton myasthenic syndrome. Bain PG, et al. **Neurology** 1996 Sep; 47(3):678–83

Serum IgM monoclonal autoantibody binding to the 301 to 314 amino acid epitope of beta–tubulin: clinical association with slowly progressive demyelinating polyneuropathy. Connolly AM, et al. **Neurology** 1997 Jan;48(1):243–8

HLA A24 in paraneoplastic cerebellar degeneration with anti–Yo antibody. Tanaka M, et al. **Neurology** 1996 Aug; 47(2):606–7

Experimental, cancer–induced retinopathy. Thirkill CE. **Ocul Immunol Inflamm** 1997 Mar;5(1):55–65

Acquired high titre factor VIII inhibitor with underlying polyarteritis nodosa. Snowden JA, et al. **Pathology** 1997 May;29(2):221–3

Precursor B cells for autoantibody production in genomically Fas–intact autoimmune disease are not subject to Fas–mediated immune elimination. Hirose S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9291–5

Antibodies to ribosomal P proteins of Trypanosoma cruzi in chagas disease possess functional autoreactivity with heart tissue and differ from anti–P autoantibodies in lupus. Kaplan D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10301–6

Modulation of murine systemic lupus erythematosus with peptides based on complementarity determining regions of a pathogenic anti–DNA monoclonal antibody. Waisman A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4620–5

Autoantibody reactivity in serum of patients with Alzheimer's disease and other age–related dementias. Schott K, et al. **Psychiatry Res** 1996 Jan 31;59(3):251–4

Antibody response to nitrogenase–positive and –negative Klebsiella pneumoniae strains in juvenile–onset ankylosing spondylitis patients and their first degree relatives: lack of differential recognition of the bacterial nitrogenase. Parra–Campos V, et al. **Rev Latinoam Microbiol** 1996 Apr–Jun;38(2):121–7

Blotting patterns of IgG anti–(U1)RNP antibodies in mixed connective tissue disease. Ghirardello A, et al. **Rheumatol Int** 1996;16(4):145–50

Antibody reactivity against thyroid peroxidase and myeloperoxidase in autoimmune thyroiditis and systemic vasculitis. Haapala AM, et al. **Scand J Immunol** 1997 Jul; 46(1):78–85

Anti–interleukin–6 autoantibodies in plasma are associated with an increased frequency of infections and increased mortality of patients with alcoholic cirrhosis. Homann C, et al. **Scand J Immunol** 1996 Dec;44(6):623–9

Natural polyreactive IgA and IgM autoantibodies in human colostrum. Vassilev TL, et al. **Scand J Immunol** 1996 Nov; 44(5):535–9

Anti–idiotypic T cells in early stages of myasthenia gravis: increase in the number and prevalence correlated to clinical improvement in patients. Yi Q, et al. **Scand J Immunol** 1996 Dec;44(6):630–7

Neonatal lupus: bedside to bench and back [editorial] Buyon JP. **Scand J Rheumatol** 1996;25(5):271–6 (49 ref.)

Avascular necrosis of bone in systemic lupus erythematosus. The predictive role of precipitating autoantibodies. Watanabe T, et al. **Scand J Rheumatol** 1997;26(3):184–7

Relationship of lupus anticoagulant, anticardiolipin, anti–beta2–GPI and anti–prothrombin autoantibodies with history of thrombosis in patients with the clinical suspicion of APA–syndrome [letter] D'Angelo A, et al. **Thromb Haemost** 1997 Aug;78(2):967–8

Autoantibody selectively inhibits binding of von Willebrand factor to glycoprotein ib. Recognition site is located in the A1 loop of von Willebrand factor. Mohri H, et al. **Thromb Haemost** 1997 Apr;77(4):760–6

Cyclosporine therapy for acquired factor VIII inhibitor in a patient with systemic lupus erythematosus. Schulman S, et al. **Thromb Haemost** 1996 Sep;76(3):344–6

Phosphatidylethanolamine induces specific conformational changes in the kininogens recognizable by antiphosphatidylethanolamine antibodies. Sugi T, et al. **Thromb Haemost** 1996 Sep;76(3):354–60

Factor VIII inhibitor antibodies with C2 domain specificity are less inhibitory to factor VIII complexed with von Willebrand factor. Suzuki T, et al. **Thromb Haemost** 1996 Nov;76(5):749–54

In pursuit of enigmatic platelet antibodies—anti–HPA–2b and anti–HPA–3a [letter] Minchinton RM, et al. **Transfus Med** 1996 Sep;6(3):289–91

Erythroblast– and erythrocyte–bound antibodies in alpha and beta thalassaemia syndromes. Wiener E, et al. **Transfus Med** 1991 Dec;1(4):229–38

Carboplatin–induced immune hemolytic anemia. Marani TM, et al. **Transfusion** 1996 Nov–Dec;36(11–12):1016–8

Autoimmunity and B–cell malignancies. Dighiero G. **Verh Dtsch Ges Pathol** 1996;80:148–59 (105 ref.)

Severe autoimmune hemolytic anemia associated with IgM warm autoantibodies directed against determinants on or associated with glycophorin A. Garratty G, et al. **Vox Sang** 1997;72(2):124–30

Transfusion support for a patient with severe common variable immunodeficiency with anti–IgA undergoing orthotopic liver transplantation [letter] Win N, et al. **Vox Sang** 1997;72(4):251

[A time–course observation of influence of pemphigus autoantibody upon desomosome] Nie Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):691–3 (Eng. Abstr.) **(Chi)**

[Anti–ganglioside antibodies and peripheral neuropathies] Humbel RL, et al. **Rev Med Liege** 1996 May;51(5):368–75 (84 ref.) **(Fre)**

[Antigenic epitopes recognized by autoantibodies to calpastatin in patients with rheumatoid arthritis and their clinical significance] Yasuoka H, et al. **Ryumachi** 1997 Jun; 37(3):458–66 (Eng. Abstr.) **(Jpn)**

[Properties of free and hidden natural antibodies, reacting with DNA and cardiolipin] Lekakh IV, et al. **Mol Biol (Mosk)** 1997 Jan–Feb;31(1):176–9 **(Rus)**

[Clinical and subclinical hyperthyroidism: two faces of the coin?] Gabriel Botella F, et al. **An Med Interna** 1995 Sep; 12(9):425–30 (Eng. Abstr.) **(Spa)**

[Combined treatment with factor VIII and immunosuppressive agents in a young woman with acquired factor VIII inhibitor] José Aguado M, et al. **Sangre (Barc)** 1996 Apr;41(2):147–50 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Detection and characterisation of anti–endomysial antibody in coeliac disease using human umbilical cord. Yiannakou JY, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):140–4

Restricted CDR3 length of the heavy chain is characteristic of six randomly isolated disease–associated VH J558+ IgM autoantibodies in lupus prone motheaten mice. Lipsanen V, et al. **Int Immunol** 1997 May;9(5):655–64

High–avidity anti–DNA antibody removal from the serum of systemic lupus erythematosus patients by adsorption using dextran sulfate cellulose columns. Matsuki Y, et al. **J Clin Apheresis** 1996;11(1):30–5

Non–organ specific autoantibodies in children with chronic hepatitis C. Bortolotti F, et al. **J Hepatol** 1996 Nov; 25(5):614–20

Affinity of human anti–factor VIII antibodies for functional polystyrene supports. Dahri L, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):401–6

Demonstration of autoantibodies to the endolymphatic sac in Meniere's disease. Alleman AM, et al. **Laryngoscope** 1997 Feb;107(2):211–5

[Occurrence and significance of autoantibodies in the course of interferon therapy of chronic hepatitis C] Heller J, et al. **Dtsch Med Wochenschr** 1996 Sep 27;121(39):1179–83

(Eng. Abstr.) **(Ger)**

[The absence of autoantibodies does not rule out autoimmune hepatitis] Schmid PA, et al. **Schweiz Med Wochenschr** 1996 Nov 30;126(48):2090–3 (Eng. Abstr.) **(Ger)**

[Immunoadsorption therapy for Fisher's syndrome: analysis of the recovery process of external ophthalmoplegia and the removal ability of anti-GQ1b antibodies] Chida K, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):551–6 (Eng. Abstr.) **(Jpn)**

[Removal ability of IgG anti-GQ1b antibody in immunoadsorption therapy for Fisher syndrome—comparison of the removal ability between tryptophane column and phenylalanine column] Ichikawa H, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):323–9 (Eng. Abstr.) **(Jpn)**

METABOLISM

Do certain autoantibodies produced in the course of human autoimmune blistering skin diseases behave as adhesion molecules? Gilbert D, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:506–8

Autoantibodies: markers of disease or pathogenic? Isenberg DA. **Ann N Y Acad Sci** 1997 Aug 14;823:256–62 (20 ref.)

Nuclear localization of autoantibodies. Novel insights into protein translocation and cellular function. Madaio MP, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:263–6 (16 ref.)

Association of serum vitamin levels, LDL susceptibility to oxidation, and autoantibodies against MDA–LDL with carotid atherosclerosis. A case–control study. The ARIC Study Investigators. Atherosclerosis Risk in Communities. Iribarren C, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1171–7

Quantitation of erythrocyte–bound IgG subclass autoantibodies in murine autoimmune haemolytic anaemia. Mazza G, et al. **Autoimmunity** 1996;23(4):245–55

Autoantibodies. Czaja AJ. **Baillieres Clin Gastroenterol** 1995 Dec;9(4):723–44 (78 ref.)

Autoantibody against thyroid iodide transporter in the sera from patients with Hashimoto's thyroiditis possesses iodide transport inhibitory activity. Endo T, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):199–202

Recognition of subsets of the mammalian A/B–type core heterogeneous nuclear ribonucleoprotein polypeptides by novel autoantibodies. Dangli A, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):761–7

Anti–Sia–lb (anti–Gd) cold agglutinins bind the domain NeuNAc alpha2–3Gal in sialyl Lewis(x), sialyl Lewis(a), and related carbohydrates on nucleated cells and in soluble cancer–associated mucins. Gallart T, et al. **Blood** 1997 Aug 15;90(4):1576–87

von Willebrand factor: increased levels are related to poor prognosis in systemic sclerosis and not to tissue autoantibodies. Blann AD, et al. **Br J Biomed Sci** 1997 Mar;54(1):5–9

The location of binding sites of pemphigus vulgaris and pemphigus foliaceus autoantibodies: a post–embedding immunoelectron microscopic study. Zhou S, et al. **Br J Dermatol** 1997 Jun;136(6):878–83

Anti–endothelial cell antibodies to the endothelial hybridoma cell line (EAhy926) in systemic lupus erythematosus patients with antiphospholipid antibodies. Matsuda J, et al. **Br J Haematol** 1997 Apr;97(1):227–32

Generation and analysis of an IgG anti–platelet autoantibody reveals unusual molecular features. Olee T, et al. **Br J Haematol** 1997 Mar;96(4):836–45

Overexpression of cysteine sulfinic acid decarboxylase stimulated by hepatocarcinogenesis results in autoantibody production in rats. Kishimoto T, et al. **Cancer Res** 1996 Nov 15;56(22):5230–7

Sperm auto – antibodies and anti–nuclear antigen antibodies in chronic dioxin – exposed veterans. Chinh TT, et al. **Chemosphere** 1996 Feb;32(3):525–30

Raised anti–endothelial cell autoantibodies (AECA), but not anti–neutrophil cytoplasmic autoantibodies (ANCA), in recurrent oral ulceration: modulation of AECA binding by tumour necrosis factor–alpha (TNF–alpha) and interferon–gamma (IFN–gamma). Healy CM, et al. **Clin Exp Immunol** 1996 Dec;106(3):523–8

Reproducibility and persistence of neural and adrenal autoantibodies in diabetic autonomic neuropathy. Cachia MJ, et al. **Diabet Med** 1997 Jun;14(6):461–5

Differential reactivities of recombinant glycosylated ectodomains of mouse and human thyrotropin receptors with patient autoantibodies. Patibandla SA, et al. **Endocrinology** 1997 Apr;138(4):1559–66

Complexes between proteinase 3, alpha 1–antitrypsin and proteinase 3 anti–neutrophil cytoplasm autoantibodies: a comparison between alpha 1–antitrypsin PiZ allele carriers and non–carriers with Wegener's granulomatosis. Baslund B, et al. **Eur J Clin Invest** 1996 Sep;26(9):786–92

Treatment of male infertility due to sperm surface antibodies: IUI or IVF? Ombelet W, et al. **Hum Reprod** 1997 Jun; 12(6):1165–70

Monoclonal antibody to heparan sulfate from autoimmune tight skin (TSK) mice binds to the endothelial cell surface. Matic M, et al. **Immunol Invest** 1997 Apr;26(3):371–81

Binding of mammalian ribosomal protein complex P0.P1.P2 and protein L12 to the GTPase–associated domain of 28 S ribosomal RNA and effect on the accessibility to anti–28 S RNA autoantibody. Uchiumi T, et al. **J Biol Chem** 1997 Feb 7;272(6):3302–8

p230 is associated with vesicles budding from the trans–Golgi network. Gleeson PA, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2811–21

Organ–specific circulating heart autoantibodies in Chagas' cardiomyopathy: exploratory study. Nava A, et al. **J Clin Lab Anal** 1996;10(6):380–3

Studies of autoantigens recognized by IgA anti–keratinocyte cell surface antibodies. Hashimoto T, et al. **J Dermatol Sci** 1996 Apr;12(1):10–7

Autoantibodies to ribosomal P proteins penetrate into live hepatocytes and cause cellular dysfunction in culture. Koscec M, et al. **J Immunol** 1997 Aug 15;159(4):2033–41

High prevalence of islet cell antibody and defective insulin release in children with schistosomiasis. Soliman AT, et al. **J Trop Pediatr** 1996 Feb;42(1):46–9

The nuclear compartment of living cells is not an absolute immunologically sequestered site: evidence for spontaneous intranuclear entry of lupus autoantibodies to living cells. Golan TD. **Leukemia** 1997 Jan;11(1):6–9 (52 ref.)

Randomization and selection of RNA to identify targets for RRM RNA–binding proteins and antibodies. Keene JD. **Methods Enzymol** 1996;267:367–83

Striational autoantibodies in myasthenia gravis mainly react with ryanodine receptor. Iwasa K. **Muscle Nerve** 1997 Jun; 20(6):753–6

Anti–GBM–associated crescentic glomerulonephritis with discrete IgG deposition, but with no electron–dense material in glomeruli. Igarashi Y, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2070–3

Autoantibody formation after allogeneic bone marrow transplantation: correlation with the reconstitution of CD5+ B cells and occurrence of graft–versus–host disease. Chan EY, et al. **Pathology** 1997 May;29(2):184–8

Lupus nephritis: the value of biochemical and immunological monitoring of disease activity. Vangelista A, et al. **Ren Fail** 1996 Sep;18(5):755–63 (35 ref.)

Anti–lymphocyte autoantibodies in systemic lupus erythematosus. Winfield JB, et al. **Trans Am Clin Climatol Assoc** 1996;108:127–35 (35 ref.)

[Chronic recurrent polyneuropathy in a patient with autoimmune hemolytic anemia associated with antibodies to gangliosides GM1, GA1, and GD1b] Nomura K, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1131–6 (20 ref.) (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Inhibition of sodium channel currents by antineuronal autoantibody from autoimmune mice. Crimando J, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:303–7

Effect of Lambert–Eaton myasthenic syndrome antibodies on autonomic neurons in the mouse. Waterman SA, et al. **Ann Neurol** 1997 Aug;42(2):147–56

Activation of cyclic AMP–dependent protein kinase in cardiomyocytes by anti–beta 1–adrenoceptor autoantibodies from patients with idiopathic dilated cardiomyopathy. Krause EG, et al. **Blood Press Suppl** 1996; 3:37–40

Autoantibodies against ADP/ATP carrier from patients with dilated cardiomyopathy increase activity of voltage–dependent Ca channels in isolated cardiac myocytes. Liao YH, et al. **Blood Press Suppl** 1996;3:41–4

Agonistic effects of anti–peptide antibodies and autoantibodies directed against adrenergic and cholinergic receptors: absence of desensitization. Wallukat G, et al. **Blood Press Suppl** 1996;3:31–6

Arrhythmogenicity of IgG and anti–52–kD SSA/Ro affinity–purified antibodies from mothers of children with congenital heart block. Boutjdir M, et al. **Circ Res** 1997 Mar;80(3):354–62

Up–regulation of the endothelial cell adhesion molecule intercellular adhesion molecule–1 (ICAM–1) by autoantibodies in autoimmune vasculitis. Johnson PA, et al. **Clin Exp Immunol** 1997 May;108(2):234–42

Up–regulation of the granulocyte adhesion molecule Mac–1 by autoantibodies in autoimmune vasculitis. Johnson PA, et al. **Clin Exp Immunol** 1997 Mar;107(3):513–9

Inhibition of T cell activation by an autoantibody induced by murine retrovirus infection. Townsend RM, et al. **Clin Immunol Immunopathol** 1997 Mar;82(3):263–73

Effect of TSH and anti–TSH receptor antibodies on the plasma membrane potential of polymorphonuclear granulocytes. Kiss E, et al. **Immunol Lett** 1997 Mar; 55(3):173–7

Recombinant thyroid peroxidase–specific Fab converted to immunoglobulin G (IgG) molecules: evidence for thyroid cell damage by IgG1, but not IgG4, autoantibodies. Guo J, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):925–31

Expression of Fas and anti–Fas–mediated apoptosis in human hepatocellular carcinoma cell lines. Yano H, et al. **J Hepatol** 1996 Oct;25(4):454–64

Monoclonal remyelination–promoting natural autoantibody SCH 94.03: pharmacokinetics and in vivo targets within demyelinated spinal cord in a mouse model of multiple sclerosis. Hunter SF, et al. **J Neurol Sci** 1997 Sep 10; 150(2):103–13

The antibodies causing thyroid stimulating hormone–binding inhibition (TSH–BI) are not responsible for the specific inhibition of gonadal steroidogenesis by Graves' sera. Castel MA, et al. **J Reprod Immunol** 1996 Feb;30(1):1–15

Autoantibodies to kininogen–phosphatidylethanolamine complexes augment thrombin–induced platelet aggregation. Sugi T, et al. **Thromb Res** 1996 Oct 15;84(2):97–109

Protective effect of autoantibodies against the hinge region of human IgG in kidney graft recipients. Sùsal C, et al. **Transplantation** 1996 Nov 27;62(10):1534–6

PHYSIOLOGY

Autoantibodies: markers of disease or pathogenic? Isenberg DA. **Ann N Y Acad Sci** 1997 Aug 14;823:256–62 (20 ref.)

Immunology of the antiphospholipid antibody syndrome. Roubey RA. **Arthritis Rheum** 1996 Sep;39(9):1444–54 (116 ref.)

Human autoantibodies stabilize the quaternary structure of Ku antigen. Wang J, et al. **Arthritis Rheum** 1997 Jul; 40(7):1344–53

Naturally occurring anti–idiotypic antibodies to anti–phosphotyrosine in systemic lupus erythematosus interact with SRC–homology 2 domains. Stefanescu M, et al. **Autoimmunity** 1995;22(2):81–6

Proceedings of the 1st International Meeting on Immunology of Cardiovascular Receptors. Taiyuan, China, May 24–26, 1995. **Blood Press Suppl** 1996;3:4–64

Tissue homeostatic role of naturally occurring anti–band 3 antibodies. Lutz HU, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Nov;42(7):995–1005 (79 ref.)

Autoantibodies to IgE and the regulation of type 1 allergic reactions [editorial] Denman AM. **Clin Exp Allergy** 1996 Nov;26(11):1232–5

Autoantibodies that stabilize the molecular interaction of Ku antigen with DNA–dependent protein kinase catalytic subunit. Satoh M, et al. **Clin Exp Immunol** 1996 Sep; 105(3):460–7

Broken dogma: penetration of autoantibodies into living cells. Alarcon–Segovia D, et al. **Immunol Today** 1996 Apr; 17(4):163–4

Potential role of autoantibodies in the regulation of cytokine responses during bacterial infections. Bakhiet M, et al. **Infect Immun** 1997 Aug;65(8):3300–3

The role of anti–p53–autoantibodies in pancreatic disorders. Gansauge S, et al. **Int J Pancreatol** 1996 Jun;19(3):171–8

Apoptotic retinal cell death induced by antirecoverin autoantibodies of cancer–associated retinopathy. Adamus G, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):283–91

Anti–prolactin (PRL) autoantibodies cause asymptomatic hyperprolactinemia: bioassay and clearance studies of PRL–immunoglobulin G complex. Hattori N, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3107–10

Comparative analysis of antibody and cell–mediated autoimmunity to transaldolase and myelin basic protein in patients with multiple sclerosis. Colombo E, et al. **J Clin Invest** 1997 Mar 15;99(6):1238–50

The role of the anti–sperm autoantibodies in the management of patients with primary infertility. Hameed N, et al. **JPMA J Pak Med Assoc** 1995 Aug;45(8):203–5

Non beta 2–glycoprotein I cofactors for antiphospholipid antibodies. Galli M. **Lupus** 1996 Oct;5(5):388–92 (42 ref.)

beta 2–Glycoprotein I: target antigen for autoantibodies in the 'antiphospholipid syndrome'. Kandiah DA, et al. **Lupus** 1996 Oct;5(5):381–5 (40 ref.)

Human polyreactive IgM monoclonal antibodies with blocking activity against self–reactive IgG. Melero J, et al. **Scand J Immunol** 1997 Apr;45(4):393–400

Autoantibodies as chameleons [editorial] Williams RC Jr, et al. **Scand J Rheumatol** 1997;26(2):73–8 (57 ref.)

Anti–red blood cell autoantibody transgenic mice: murine model of autoimmune hemolytic anemia. Murakami M, et al. **Semin Immunol** 1996 Feb;8(1):3–9 (43 ref.)

IgA red cell autoantibodies and autoimmune hemolysis. Sokol RJ, et al. **Transfusion** 1997 Feb;37(2):175–81

[Anti–GM1 gangliosides antibodies in multifocal motor neuropathies] Younes–Chennoufi AB, et al. **Rev Neurol (Paris)** 1996 May;152(5):375–9 (Eng. Abstr.) **(Fre)**

[The effect of antibodies against nerve–specific protein S100 on calcium channels in the somatic membrane of snail neurons] Gaĭnutdinov KhL, et al. **Dokl Akad Nauk** 1996 Oct;350(4):554–6 **(Rus)**

RADIATION EFFECTS

[A comparative evaluation of the content of T–lymphocyte subpopulations, alpha 1–thymosin and autoantibodies to epithelial thymic cells in the personnel in the 30–kilometer control zone of the accident at the Chernobyl Atomic Electric Power Station] Titova LD, et al. **Radiats Biol Radioecol** 1996 Jul–Aug;36(4):601–9 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Treatments with tamoxifen and an antiestradiol antibody have beneficial effects on experimental SLE via cytokine modulation. Sthoeger Z, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:367–8

Anti–IgE in allergic sensitization. Stadler BM, et al. **Immunol Cell Biol** 1996 Apr;74(2):195–200 (51 ref.)

Successful treatment of established relapsing experimental autoimmune encephalomyelitis in mice with a monoclonal natural autoantibody. Miller DJ, et al. **J Neuroimmunol** 1997 May;75(1–2):204–9

TOXICITY

Autoantibodies to myeloperoxidase aggravate mild anti–glomerular–basement–membrane–mediated

glomerular injury in the rat. Heeringa P, et al. **Am J Pathol** 1996 Nov;149(5):1695–706

Arteritis in a novel congenic strain of mice derived from MRL/Lpr lupus mice: genetic dissociation from glomerulonephritis and limited autoantibody production. Nose M, et al. **Am J Pathol** 1996 Nov;149(5):1763–9

Autoantibodies in conventional toxicity testing. Verdier F, et al. **Toxicology** 1997 Apr 11;119(1):51–8 (33 ref.)

URINE

Urine autoantibodies in interstitial cystitis. Keay S, et al. **J Urol** 1997 Mar;157(3):1083–7

AUTOANTIGENS

Maternal autoimmune response to recombinant Ro/SSA and La/SSB proteins in Japanese neonatal lupus erythem atosus. Miyagawa S, et al. **Autoimmunity** 1995;21(4):277–82

New autoantibodies and their antigens in autoimmune diseases. Storch WB. **Cell Mol Biol (Noisy-le-grand)** 1997 May;43(3):337–44 (52 ref.)

Protein tyrosine phosphatase-like proteins: link with IDDM. Pietropaolo M, et al. **Diabetes Care** 1997 Feb;20(2):208–14 (42 ref.)

A single-tube PCR test for the diagnosis of Angelman and Prader-Willi syndrome based on allelic methylation differences at the SNRPN locus. Zeschnigk M, et al. **Eur J Hum Genet** 1997 Mar–Apr;5(2):94–8

Proteinase 3, the major autoantigen of Wegener's granulomatosis, enhances IL-8 production by endothelial cells in vitro. Berger SP, et al. **J Am Soc Nephrol** 1996 May;7(5):694–701

Studies of autoantigens recognized by IgA anti-keratinocyte cell surface antibodies. Hashimoto T, et al. **J Dermatol Sci** 1996 Apr;12(1):10–7

Scleroderma autoantigens are uniquely fragmented by metal-catalyzed oxidation reactions: implications for pathogenesis. Casciola-Rosen L, et al. **J Exp Med** 1997 Jan 6;185(1):71–9

Autopathogenic T helper cell type 1 (Th1) and protective Th2 clones differ in their recognition of the autoantigenic peptide of myelin proteolipid protein. Das MP, et al. **J Exp Med** 1997 Sep 15;186(6):867–76

Breaking of B cell tolerance toward a highly conserved self protein. Dalum I, et al. **J Immunol** 1996 Dec 1; 157(11):4796–804

IgE autoantibodies directed against the major bullous pemphigoid antigen in patients with a severe form of pemphigoid. Delaporte E, et al. **J Immunol** 1996 Oct 15; 157(8):3642–7

The immune response to 52-kDa Ro and 60-kDa Ro is linked in experimental autoimmunity. Keech CL, et al. **J Immunol** 1996 Oct 15;157(8):3694–9

Purification and characterization of human nephritogenic antigen that induces anti-GBM nephritis in rats. Sado Y, et al. **J Pathol** 1997 Jun;182(2):225–32

Molecular, metabolic and immune evidence suggest that systemic autoimmune disease is antigen-mediated. Benke PJ. **Med Hypotheses** 1996 Nov;47(5):337–46 (130 ref.)

Cytochrome P450 enzymes and UDP-glucuronosyltransferases as hepatocellular autoantigens. Obermayer-Straub P, et al. **Mol Biol Rep** 1996;23(3–4):235–42 (59 ref.)

Features of autoantigens. Reeves WH, et al. **Mol Biol Rep** 1996;23(3–4):217–26 (76 ref.)

Molecular biology of autoantigens in rheumatic diseases. Galperin C, et al. **Rheum Dis Clin North Am** 1996 Feb; 22(1):175–210 (243 ref.)

ADMINISTRATION & DOSAGE

Oral tolerance for the treatment of autoimmune diseases. Weiner HL. **Annu Rev Med** 1997;48:341–51 (75 ref.)

Oral tolerance: elucidation of mechanisms and application to treatment of autoimmune diseases. Fowler E, et al. **Biopolymers** 1997;43(4):323–35 (99 ref.)

Oral tolerance: immune mechanisms and treatment of autoimmune diseases. Weiner HL. **Immunol Today** 1997 Jul; 18(7):335–43 (143 ref.)

[Application of oral tolerance to the treatment of autoimmune diseases--active suppression and bystander suppression] Matsui M. **Nippon Rinsho** 1997 Jun;55(6):1537–42 (25 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Induction of experimental autoimmune anterior uveitis by a self-antigen: melanin complex without adjuvant. Bora NS, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):2171–5

ANALYSIS

Differential expression of desmosomal glycoproteins in keratoacanthoma and squamous cell carcinoma of the skin: an immunohistochemical aid to diagnosis [published erratum appears in Acta Derm Venereol 1996 Nov;76(6):504] Krunic AL, et al. **Acta Derm Venereol** 1996 Sep;76(5):394–8

Immunochemical studies on red cell auto antigens: use and limits of immunoprecipitation from biotinylated erythrocyte membrane. De Angelis V, et al. **Autoimmunity** 1995;21(4):263–8

Mosaic expression of uncein and 180-kDa bullous pemphigoid antigen in generalized atrophic benign epidermolysis bullosa. Matsumura Y, et al. **Br J Dermatol** 1997 May;136(5):757–61

CaSm: an Sm-like protein that contributes to the transformed state in cancer cells. Schweinfest CW, et al. **Cancer Res** 1997 Jul 15;57(14):2961–5

Human chromosome pellicle antibody recognizing centromere protein-C (CENP-C), the main component of the kinetochore. Xie Y, et al. **Cell Res** 1997 Jun;7(1):13–9

Comparative study of autoantigens for various bullous skin diseases by immunoblotting using different dermo-epidermal separation techniques. Ohata Y, et al. **Clin Exp Dermatol** 1995 Nov;20(6):454–8

Epitope analysis of the Goodpasture antigen using a resonant mirror biosensor. Levy JB, et al. **Clin Exp Immunol** 1996 Oct;106(1):79–85

Nuclear matrix proteins of bovine corneal and conjunctival epithelium. Vassallo JC, et al. **Curr Eye Res** 1996 Aug; 15(8):899–904

Nuclear autoantigen p330d/CENP-F: a marker for cell proliferation in human malignancies. Landberg G, et al. **Cytometry** 1996 Sep 1;25(1):90–8

Islet cell autoantigen 69 kDa (ICA69) is preferentially expressed in the human islets of Langerhans than exocrine pancreas [letter; comment] Stassi G, et al. **Diabetologia** 1997 Jan;40(1):120–2. Comment on: Diabetologia 1996 Apr;39(4):474–80.

A possible common cell surface autoantigen in islet beta-cells and thyroid follicular cells in patients with non-insulin dependent diabetes mellitus and chronic thyroiditis. Igawa T, et al. **Endocr J** 1996 Jun;43(3):299–306

Nuclear colocalization of the Ro 60 kDa autoantigen and a subset of U snRNP domains. Wahren M, et al. **Eur J Cell Biol** 1996 Jul;70(3):189–97

Islet cell autoantigens in type 1 diabetes. Christie MR. **Eur J Clin Invest** 1996 Oct;26(10):827–38 (81 ref.)

An altered intracellular distribution of the autoantigen La/SS-B when translated from a La mRNA isoform. Grölz D, et al. **Exp Cell Res** 1997 Aug 1;234(2):329–35

Cytochrome P450IA2 and aromatic L-amino acid decarboxylase are hepatic autoantigens in autoimmune polyendocrine syndrome type I. Gebre-Medhin G, et al. **FEBS Lett** 1997 Aug 4;412(3):439–45

Alcohol dehydrogenase: a target of humoral autoimmune response in liver disease. Ma Y, et al. **Gastroenterology** 1997 Feb;112(2):483–92

Autoimmune endocrine ophthalmopathy and retrobulbar antigens. Otto E, et al. **Horm Metab Res** 1995 Dec; 27(12):533–8

IA-2 and IA-2 beta are major autoantigens in IDDM and the precursors of the 40 kDa and 37 kDa tryptic fragments. Notkins AL, et al. **J Autoimmun** 1996 Oct;9(5):677–82

The I protein of the heterogeneous nuclear ribonucleoprotein complex is a novel dog nuclear autoantigen. Soulard M, et al. **J Autoimmun** 1996 Oct;9(5):599–608

Evaluation of recombinant RO/SSA, La/SSB, Sm and U1 RNP autoantigens in clinical diagnosis [letter; comment] Meheus L, et al. **J Clin Lab Anal** 1996;10(1):57–8. Comment on: J Clin Lab Anal 1995;9(1):52–8.

Comparison of two different methods using overlapping synthetic peptides for localizing linear B cell epitopes in the U1 snRNP-C autoantigen. Halimi H, et al. **J Immunol Methods** 1996 Nov 29;199(1):77–85

Identification of a 168-kDa mucosal antigen in a subset of patients with cicatricial pemphigoid. Ghohestani RF, et al. **J Invest Dermatol** 1996 Jul;107(1):136–9

Identification of a novel type 1 diabetes-specific epitope by screening phage libraries with sera from pre-diabetic patients. Mennuni C, et al. **J Mol Biol** 1997 May 9; 268(3):599–606

The human T-cell leukemia virus type 1 transactivator protein Tax colocalizes in unique nuclear structures with NF-kappaB proteins. Bex F, et al. **J Virol** 1997 May; 71(5):3484–97

Antibodies to 68 kd antigen--specific for inner ear disease? [letter; comment] Dhingra J, et al. **Laryngoscope** 1997 Mar; 107(3):405–6. Comment on: Laryngoscope 1995 Dec;105(12 Pt 1):1347–52.

Autoantigens in insulin-dependent diabetes mellitus: molecular cloning and characterization of human IA-2 beta. Li Q, et al. **Proc Assoc Am Physicians** 1997 Jul; 109(4):429–39

Ductular expression of autoantigens in primary biliary cirrhosis. Joplin R, et al. **Semin Liver Dis** 1997 May; 17(2):97–103 (37 ref.)

BIOSYNTHESIS

Unmasking of an unusual myelin basic protein epitope during the process of myelin degeneration in humans: a potential mechanism for the generation of autoantigens. Matsuo A, et al. **Am J Pathol** 1997 Apr;150(4):1253–66

Cardiac expression of 52beta, an alternative transcript of the congenital heart block-associated 52-kd SS-A/Ro autoantigen, is maximal during fetal development. Buyon JP, et al. **Arthritis Rheum** 1997 Apr;40(4):655–60

Stress-induced cell surface expression and antigenic alteration of the Ro/SSA autoantigen. Igarashi T, et al. **Autoimmunity** 1995;22(1):33–42

Molecular cloning and characterization of the human transmembrane protein tyrosine phosphatase homologue, phogrin, an autoantigen of type 1 diabetes. Kawasaki E, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):440–7

Developmental expression of BPAG1-n: insights into the spastic ataxia and gross neurologic degeneration in dystonia musculorum mice. Dowling J, et al. **Dev Biol** 1997 Jul 15; 187(2):131–42

The nuclear domain 10 (ND10) is disrupted by the human cytomegalovirus gene product IE1. Korioth F, et al. **Exp Cell Res** 1996 Nov 25;229(1):155–8

Early expression of a novel radial glia antigen in the chick embryo. Prada FA, et al. **Glia** 1995 Dec;15(4):389–400

Type XVII collagen (BP 180) in the developing avian cornea. Gordon MK, et al. **Invest Ophthalmol Vis Sci** 1997 Jan; 38(1):153–66

Transfection analysis of expression of mRNA isoforms encoding the nuclear autoantigen La/SS-B. Grölz D, et al. **J Biol Chem** 1997 May 2;272(18):12076–82

The interferon (IFN)-stimulated gene Sp100 promoter contains an IFN-gamma activation site and an imperfect IFN-stimulated response element which mediate type I IFN inducibility. Grötzinger T, et al. **J Biol Chem** 1996 Oct 11;271(41):25253–60

Thymic expression of autoantigens correlates with resistance to autoimmune disease. Egwuagu CE, et al. **J Immunol** 1997 Oct 1;159(7):3109–12

Cytochrome P450 2E1 is a cell surface autoantigen in halothane hepatitis. Eliasson E, et al. **Mol Pharmacol** 1996 Sep;50(3):573–82

BLOOD

Immunoblot analysis of autoantigens in localized pemphigoid and pemphigoid nodularis. Kawahara Y, et al. **Acta Derm Venereol** 1997 May;77(3):187–90

Two major autoantigen-antibody systems of the mitotic spindle apparatus. Andrade LE, et al. **Arthritis Rheum** 1996 Oct;39(10):1643–53

Antibodies to type II collagen in early rheumatoid arthritis. Correlation with disease progression. Cook AD, et al. **Arthritis Rheum** 1996 Oct;39(10):1720–7

The spindle kinesin-like protein HsEg5 is an autoantigen in systemic lupus erythematosus. Whitehead CM, et al. **Arthritis Rheum** 1996 Oct;39(10):1635–42

Immunoprecipitation of steroidogenic enzyme autoantigens with autoimmune polyglandular syndrome type I (APS I) sera; further evidence for independent humoral immunity to P450c17 and P450c21 [see comments] Peterson P, et al. **Clin Exp Immunol** 1997 Feb;107(2):335–40. Comment in: Clin Exp Immunol 1997 Feb;107(2):227–9.

The anti-erythrocyte autoimmune response of NZB mice. Identification of two distinct autoantigens. Diiulio NA, et al. **Immunology** 1997 Jun;91(2):246–51

Antigen-presenting cells in the thymus that can negatively select MHC class II-restricted T cells recognizing a circulating self antigen. Volkmann A, et al. **J Immunol** 1997 Jan 15;158(2):693–706

The dominant and the cryptic T cell repertoire to myelin basic protein in the Lewis rat. Mor F, et al. **J Neurosci Res** 1996 Sep 15;45(6):670–9 (60 ref.)

Natural history of early primary biliary cirrhosis [see comments] Metcalf JV, et al. **Lancet** 1996 Nov 23; 348(9039):1399–402. Comment in: Lancet 1997 Jan 25;349(9047):285.

Diagnostic test for the Prader-Willi syndrome by SNRPN expression in blood. Wevrick R, et al. **Lancet** 1996 Oct 19;348(9034):1068–9

[Autoantibodies against nerve tissue proteins long after cranio-cerebral injury] Morozov SG, et al. **Vopr Med Khim** 1996 Apr-Jun;42(2):147–52 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Two forms of the major antigenic protein of the dermatomyositis-specific Mi-2 autoantigen [letter] Seelig HP, et al. **Arthritis Rheum** 1996 Oct;39(10):1769–71

Human autoantibodies stabilize the quaternary structure of Ku antigen. Wang J, et al. **Arthritis Rheum** 1997 Jul; 40(7):1344–53

Autoepitope mapping of the centrosome autoantigen PCM-1 using scleroderma sera with anticentrosome autoantibodies. Bao L, et al. **Autoimmunity** 1995;22(4):219–28

Framework and CDR structures of anti-DNA antibodies are implicated in antigen binding. Ward FJ, et al. **Biochem Soc Trans** 1997 May;25(2):310S

A recombinant form of the human BP180 ectodomain forms a collagen-like homotrimeric complex. Balding SD, et al. **Biochemistry** 1997 Jul 22;36(29):8821–30

A common structural motif in immunopotentiating peptides with sequences present in human autoantigens. Elicitation of a response mediated by monocytes and Th1 cells. López-Moratalla N, et al. **Biochim Biophys Acta** 1996 Dec 16;1317(3):183–91

Characterization of internal DNA-binding and C-terminal dimerization domains of human centromere/kinetochore autoantigen CENP-C in vitro: role of DNA-binding and self-associating activities in kinetochore organization. Sugimoto K, et al. **Chromosome Res** 1997 Apr;5(2):132–41

Human mast cells expressing recombinant proteinase 3 (PR3) as substrate for clinical testing for anti-neutrophil cytoplasmic antibodies (ANCA). Specks U, et al. **Clin Exp Immunol** 1997 Aug;109(2):286–95

Identification of immunogenic epitopes of GAD 65 presented by Ag7 in non-obese diabetic mice. Chao CC, et al.

Immunogenetics 1997;46(1):29–34

Phage–displayed La/SS–B antigen as a diagnostic reagent. Poon VK, et al. **Immunotechnology** 1997 Jun;3(2):155–9

Immunoreactivity and conformation of the P–P–G–M–R–P–P repetitive epitope of the Sm autoantigen. Tsikaris V, et al. **Int J Pept Protein Res** 1996 Oct;48(4):319–27

Structure of the HNK–1 carbohydrate epitope on bovine peripheral myelin glycoprotein P0. Voshol H, et al. **J Biol Chem** 1996 Sep 20;271(38):22957–60

Identification of high potency microbial and self ligands for a human autoreactive class II–restricted T cell clone [see comments] Hemmer B, et al. **J Exp Med** 1997 May 5; 185(9):1651–9. Comment in: J Exp Med 1997 May 5;185(9):1529–31.

Immunogenicity and immunopathogenicity of an autoimmune epitope are potentiated by increasing MHC binding through residue substitution. Kozhich AT, et al. **J Immunol** 1997 May 1;158(9):4145–51

Human anti–nuclear ribonucleoprotein antigen autoimmune sera contain a novel subset of autoantibodies that stabilizes the molecular interaction of U1RNP–C protein with the Sm core proteins. Satoh M, et al. **J Immunol** 1997 May 15;158(10):5017–25

A homozygous in–frame deletion in the collagenous domain of bullous pemphigoid antigen BP180 (type XVII collagen) causes generalized atrophic benign epidermolysis bullosa. Chavanas S, et al. **J Invest Dermatol** 1997 Jul;109(1):74–8

The extracellular domain of BPAG2 localizes to anchoring filaments and its carboxyl terminus extends to the lamina densa of normal human epidermal basement membrane. Masunaga T, et al. **J Invest Dermatol** 1997 Aug; 109(2):200–6

A peptide derivative (1–70 fragment) of protein SV–IV accelerates human blood coagulation in vitro by selective inhibition of the heparin–induced antithrombin III activation process. Di Micco B, et al. **J Pept Res** 1997 Feb;49(2):174–82

The La autoantigen contains a dimerization domain that is essential for enhancing translation. Craig AW, et al. **Mol Cell Biol** 1997 Jan;17(1):163–9

Structure of human IgM rheumatoid factor Fab bound to its autoantigen IgG Fc reveals a novel topology of antibody–antigen interaction. Corper AL, et al. **Nat Struct Biol** 1997 May;4(5):374–81

Random phage mimotopes recognized by monoclonal antibodies against the pyruvate dehydrogenase complex–E2 (PDC–E2). Cha S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10949–54

DIAGNOSTIC USE

Screening of SLE sera using purified recombinant Sm–D1 protein from a baculovirus expression system. Ou Y, et al. **Clin Immunol Immunopathol** 1997 Jun;83(3):310–7

Phage–displayed La/SS–B antigen as a diagnostic reagent. Poon VK, et al. **Immunotechnology** 1997 Jun;3(2):155–9

Use of recombinant proteins in the diagnosis of autoimmune connective tissue diseases. Galperin C, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):337–47 (103 ref.)

DRUG EFFECTS

The in vivo destruction of antigen––a tool for probing and modulating an autoimmune response [editorial; comment] Lachmann PJ. **Clin Exp Immunol** 1996 Nov;106(2):187–9. Comment on: Clin Exp Immunol 1996 Nov;106(2):243–52.

The autoimmunity–inducing xenobiotic mercury interacts with the autoantigen fibrillarin and modifies its molecular and antigenic properties. Pollard KM, et al. **J Immunol** 1997 Apr 1;158(7):3521–8

GENETICS

Characterization of retroviruses from patients with multiple sclerosis. Christensen T, et al. **Acta Neurol Scand Suppl** 1997;169:49–58

Detection of imprinting mutations in Angelman syndrome using a probe for exon alpha of SNRPN [letter] Beuten J, et al. **Am J Med Genet** 1996 May 17;63(2):414–5

Toward quality assurance for metaphase FISH: a multicenter experience. Dewald GW, et al. **Am J Med Genet** 1996 Oct 28;65(3):190–6

Molecular cloning of a novel 97–kd Golgi complex autoantigen associated with Sjögren's syndrome. Griffith KJ, et al. **Arthritis Rheum** 1997 Sep;40(9):1693–702

Two forms of the major antigenic protein of the dermatomyositis–specific Mi–2 autoantigen [letter] Seelig HP, et al. **Arthritis Rheum** 1996 Oct;39(10):1769–71

Molecular cloning and expression of 56–58 KD antigen associated with transplant coronary artery disease. Ationu A, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):716–8

The genomic structure of a mouse seminal vesicle autoantigen. Yu LC, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):106–10

The nuclear autoantigen La/SS–associated antigen B: one gene, three functional mRNAs. Grölz D, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):151–8

Analysis of expression of an alternative La (SS–B) cDNA and localization of the encoded N– and C–terminal peptides. Bachmann M, et al. **Biochim Biophys Acta** 1997 Mar 27;1356(1):53–63

Molecular cloning of murine ICA69: diabetes–prone mice recognize the human autoimmune–epitope, Tep69, conserved in splice variants from both species. Karges W, et al. **Biochim Biophys Acta** 1997 Apr 12;1360(2):97–101

A tick homologue of the human Ki nuclear autoantigen. Paesen GC, et al. **Biochim Biophys Acta** 1996 Nov 11; 1309(1–2):9–13

Phosphorylation of the human La antigen on serine 366 can regulate recycling of RNA polymerase III transcription complexes. Fan H, et al. **Cell** 1997 Mar 7;88(5):707–15

Cloning of a novel nucleolar guanosine 5'–triphosphate binding protein autoantigen from a breast tumor. Racevskis J, et al. **Cell Growth Differ** 1996 Feb;7(2):271–80

A pseudogene for the human ribosomal protein L5 (RPL5P1) maps within an intron of the SNRPN transcription unit on human chromosome 15. Buiting K, et al. **Cytogenet Cell Genet** 1996;75(4):224–6

Assignment of the IA–2 gene encoding an autoantigen in IDDM to chromosome 2q35 [letter] Lan MS, et al. **Diabetologia** 1996 Aug;39(8):1001–2

Cloning and molecular characterization of cDNA encoding a mouse male–enhanced antigen–2 (Mea–2): a putative family of the Golgi autoantigen. Kondo M, et al. **DNA Seq** 1997;7(2):71–82

hPop1: an autoantigenic protein subunit shared by the human RNase P and RNase MRP ribonucleoproteins. Lygerou Z, et al. **EMBO J** 1996 Nov 1;15(21):5936–48

KARP–1: a novel leucine zipper protein expressed from the Ku86 autoantigen locus is implicated in the control of DNA–dependent protein kinase activity. Myung K, et al. **EMBO J** 1997 Jun 2;16(11):3172–84

Maternal and paternal genomes function independently in mouse ova in establishing expression of the imprinted genes Snrpn and Igf2r: no evidence for allelic trans–sensing and counting mechanisms. Szabó PE, et al. **EMBO J** 1996 Nov 15;15(22):6018–25

An altered intracellular distribution of the autoantigen La/SS–B when translated from a La mRNA isoform. Grölz D, et al. **Exp Cell Res** 1997 Aug 1;234(2):329–35

Genes for murine Y1 and Y3 Ro RNAs have class 3 RNA polymerase III promoter structures and are unlinked on mouse chromosome 6. Farris AD, et al. **Gene** 1996 Sep 26;174(1):35–42

The nuclear autoantigen La/SS–B: mapping and sequencing of the gene and the three retropseudogenes. Grölz D, et al. **Gene** 1997 May 20;191(1):23–9

Analysis of genes for human snRNP Sm–D1 protein and identification of the promoter sequence which shows segmental homology to the promoters of Sm–E and U1 snRNA genes. Sun D, et al. **Gene** 1997 Apr 21; 189(2):245–54

Sequencing and functional analysis of the SNRPN promoter: in vitro methylation abolishes promoter activity [letter] Huq AH, et al. **Genome Res** 1997 Jun;7(6):642–8

Identification of novel exons 3' to the human SNRPN gene. Buiting K, et al. **Genomics** 1997 Feb 15;40(1):132–7

Genomic organization and transcript analysis of ICAp69, a target antigen in diabetic autoimmunity. Gaedigk R, et al. **Genomics** 1996 Dec 15;38(3):382–91

Molecular cloning of the RNA polymerase I transcription factor hUBF/NOR–90 (UBTF) gene and localization to 17q21.3 by fluorescence in situ hybridization and radiation hybrid mapping. Matera AG, et al. **Genomics** 1997 Apr 1;41(1):135–8

Assignment of two human autoantigen genes–isoleucyl–tRNA synthetase locates to 9q21 and lysyl–tRNA synthetase locates to 16q23–q24. Nichols RC, et al. **Genomics** 1996 Aug 15;36(1):210–3

Maintenance of imprinting of the insulin–like growth factor II gene (IGF2) and the small nuclear ribonucleoprotein polypeptide N gene (SNRPN) in the human uterus and leiomyoma. Hashimoto K, et al. **Gynecol Obstet Invest** 1996;41(1):50–4

Primary alloreactive cytotoxic T–lymphocytes are not commonly restricted by self–HLA class I antigens. Young NT, et al. **Hum Immunol** 1996 Sep 15;50(1):38–46

Loss of H19 imprinting and up–regulation of H19 and SNRPN in a case with malignant mixed Müllerian tumor of the uterus. Hashimoto K, et al. **Hum Pathol** 1997 Jul; 28(7):862–5

Isolation of cDNAs coding for IgE autoantigens: a link between atopy and autoimmunity. Valenta R, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):209–12

Cloning of candidate autoantigen carboxypeptidase H from a human islet library: sequence identity with human brain CPH. Alcalde L, et al. **J Autoimmun** 1996 Aug;9(4):525–8

Different La/SS–B mRNA isoforms are expressed in salivary gland tissue of patients with primary Sjögren's syndrome. Bachmann M, et al. **J Autoimmun** 1996 Dec;9(6):757–66

A frame shift mutation in a hot spot region of the nuclear autoantigen La (SS–B). Bachmann M, et al. **J Autoimmun** 1996 Dec;9(6):747–56

Cloning and characterization of islet cell antigen–related protein–tyrosine phosphatase (PTP), a novel receptor–like PTP and autoantigen in insulin–dependent diabetes. Cui L, et al. **J Biol Chem** 1996 Oct 4;271(40):24817–23

The interferon (IFN)–stimulated gene Sp100 promoter contains an IFN–gamma activation site and an imperfect IFN–stimulated response element which mediate type I IFN inducibility. Grötzinger T, et al. **J Biol Chem** 1996 Oct 11;271(41):25253–60

Human proteinase–3 expression is regulated by PU.1 in conjunction with a cytidine–rich element. Sturrock A, et al. **J Biol Chem** 1996 Dec 13;271(50):32392–402

The 105–kDa basement membrane autoantigen p105 is N–terminally homologous to a tumor–associated antigen. Chan LS, et al. **J Invest Dermatol** 1996 Aug;107(2):209–14

A homozygous in–frame deletion in the collagenous domain of bullous pemphigoid antigen BP180 (type XVII collagen) causes generalized atrophic benign epidermolysis bullosa. Chavanas S, et al. **J Invest Dermatol** 1997 Jul;109(1):74–8

Premature termination codons are present on both alleles of the bullous pemphigoid antigen 2/type XVII collagen gene in five Austrian families with generalized atrophic benign epidermolysis bullosa. Darling TN, et al. **J Invest Dermatol** 1997 Apr;108(4):463–8

Analysis of parent of origin specific DNA methylation at SNRPN and PW71 in tissues: implication for prenatal diagnosis. Kubota T, et al. **J Med Genet** 1996 Dec; 33(12):1011–4

The insulin–dependent diabetes mellitus–associated ICA 105 autoantigen in stiff–man syndrome patients. Martino G, et al. **J Neuroimmunol** 1996 Sep;69(1–2):129–34

A candidate model for Angelman syndrome in the mouse. Cattanach BM, et al. **Mamm Genome** 1997 Jul;8(7):472–8

Cloning and expression of mouse 60 kDa ribonucleoprotein SS–A/Ro. Wang D, et al. **Mol Biol Rep** 1996; 23(3–4):205–10

Autoantigen 1 of the guinea pig sperm acrosome is the homologue of mouse Tpx–1 and human TPX1 and is a member of the cysteine–rich secretory protein (CRISP) family. Foster JA, et al. **Mol Reprod Dev** 1996 Jun; 44(2):221–9

Imprint switching on human chromosome 15 may involve alternative transcripts of the SNRPN gene [see comments] Dittrich B, et al. **Nat Genet** 1996 Oct;14(2):163–70. Comment in: Nat Genet 1996 Oct;14(2):119–21.

Gene encoding human Ro–associated autoantigen Y5 RNA. Maraia R, et al. **Nucleic Acids Res** 1996 Sep 15; 24(18):3552–9

Characterization of two scleroderma autoimmune antigens that copurify with human ribonuclease P. Eder PS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1101–6

Structure of the imprinted mouse Snrpn gene and establishment of its parental–specific methylation pattern. Shemer R, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10267–72

Identification of an inhibitory element within the human 68–kDa (U1) ribonucleoprotein antigen. Northemann W, et al. **Protein Expr Purif** 1995 Dec;6(6):748–56

Gene structure of ANCA target antigens: implications for the pathogenesis of vasculitis. Jenne DE. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Oct;13(3):209–13 (49 ref.)

IMMUNOLOGY

Detection of bullous pemphigoid antibodies by means of synthetic peptides as antigenic epitopes. Husz S, et al. **Acta Microbiol Immunol Hung** 1996;43(4):339–43

Inflammatory infiltrates and complete absence of Purkinje cells in anti–Yo–associated paraneoplastic cerebellar degeneration. Verschuuren J, et al. **Acta Neuropathol (Berl)** 1996;91(5):519–25

Antibodies against retroviral proteins and nuclear antigens in a subset of idiopathic CD4+ T lymphocytopenia patients. Garry RF, et al. **AIDS Res Hum Retroviruses** 1996 Jul 1;12(10):931–40

Advantage of using both anionic and zwitterionic phospholipid antigens for the detection of antiphospholipid antibodies. Laroche P, et al. **Am J Clin Pathol** 1996 Oct; 106(4):549–54

Autoimmune retinopathy in the absence of cancer. Mizener JB, et al. **Am J Ophthalmol** 1997 May;123(5):607–18

Antibodies to endometrial transferrin and alpha 2–Heremans Schmidt (HS) glycoprotein in patients with endometriosis [published erratum appears in Am J Reprod Immunol 1997 Mar;37(3):277] Pillai S, et al. **Am J Reprod Immunol** 1996 May;35(5):483–94

Prevalence of antineutrophil cytoplasmic antibodies in a large inception cohort of patients with connective tissue disease. Merkel PA, et al. **Ann Intern Med** 1997 Jun 1; 126(11):866–73

Molecular mimicry in human aortic aneurysmal diseases. Ozsvath KJ, et al. **Ann N Y Acad Sci** 1996 Nov 18; 800:288–93

A genetic basis for autoimmune manifestations in the abdominal aortic aneurysm resides in the MHC class II locus DR–beta–1. Tilson MD, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:208–15

Rheumatoid arthritis: autoreactive T cells recognising a novel 68k autoantigen. Bläss S, et al. **Ann Rheum Dis** 1997 May; 56(5):317–22

Anti–Ro/SS–A and anti–La/SS–B antibodies associated with cardiac involvement in childhood systemic lupus erythematosus. Oshiro AC, et al. **Ann Rheum Dis** 1997 Apr; 56(4):272–4

Antigenic determinants in type 1 diabetes mellitus. Review article. Dotta F, et al. **APMIS** 1996 Nov;104(11):769–74 (39 ref.)

The majority of bullous pemphigoid and herpes gestationis serum samples react with the NC16a domain of the 180–kDa bullous pemphigoid antigen. Matsumura K, et al. **Arch Dermatol Res** 1996 Aug;288(9):507–9

A major, novel systemic lupus erythematosus autoantibody class recognizes the E, F, and G Sm snRNP proteins as

an E-F-G complex but not in their denatured states. Brahms H, et al. **Arthritis Rheum** 1997 Apr;40(4):672–82

Self antigens and epitope spreading in systemic autoimmunity. Craft J, et al. **Arthritis Rheum** 1997 Aug; 40(8):1374–82 (85 ref.)

Association of homozygosity for glutathione-S-transferase GSTM1 null alleles with the Ro+/La- autoantibody profile in patients with systemic lupus erythematosus. Ollier W, et al. **Arthritis Rheum** 1996 Oct;39(10):1763–4

Development of the anti-Ro autoantibody response in a patient with systemic lupus erythematosus. Scofield RH, et al. **Arthritis Rheum** 1996 Oct;39(10):1664–8

The transcriptional activator Sp1, a novel autoantigen. Spain TA, et al. **Arthritis Rheum** 1997 Jun;40(6):1085–95

The 52-kd protein as a target of intermolecular spreading of the immune response to components of the SS-A/Ro-SS-B/La complex. Tseng CE, et al. **Arthritis Rheum** 1997 May;40(5):936–44

Human cartilage glycoprotein-39 as a candidate autoantigen in rheumatoid arthritis. Verheijden GF, et al. **Arthritis Rheum** 1997 Jun;40(6):1115–25

The prevalence of antinuclear, anti-dsDNA, anti-Sm and anti-RNP antibodies in a group of healthy blood donors. Azizah MR, et al. **Asian Pac J Allergy Immunol** 1996 Dec; 14(2):125–8

A study of cell-mediated immune response to pancreatic antigens in patients with fibrocalculous pancreatic diabetes. Tandhanand-Banchuin N, et al. **Asian Pac J Allergy Immunol** 1996 Dec;14(2):91–7

Autoepitope mapping of the centrosome autoantigen PCM-1 using scleroderma sera with anticentrosome autoantibodies. Bao L, et al. **Autoimmunity** 1995;22(4):219–28

Peripheral blood in Sjögren's syndrome does not contain increased levels of T lymphocytes reactive with the recombinant Ro/SS-A 52 kD and La/SS-B 48 kD autoantigens. Halse AK, et al. **Autoimmunity** 1996; 23(1):25–34

Influence of the light chain repertoire on immunoglobulin genes encoding thyroid autoantibody Fab from combinatorial libraries. Jaume JC, et al. **Autoimmunity** 1996;24(1):11–23

Endogenous antigen presentation by autoantigen-transfected Epstein-Barr virus-lymphoblastoid cells: T cell receptor N-region hydrophobicity relates to thyroid antigen recognition [published erratum appears in Autoimmunity 1996;23(1):75] Martin A, et al. **Autoimmunity** 1995; 21(4):223–30

Restricted heterogeneity and changing spectrotypes in autoantibodies to La/SS-B. Satoh M, et al. **Autoimmunity** 1996;24(4):229–36

Characterization of T cell receptor repertoire and anti-Ro/SSA autoantibodies in relation to sialadenitis of NOD mice. Skarstein K, et al. **Autoimmunity** 1995; 22(1):9–16

Relation between antibodies to islet cell antigens, other autoantigens and cow's milk proteins in diabetic children and unaffected siblings at the clinical manifestation of IDDM. The Childhood Diabetes in Finland Study Group. Vähäsalo P, et al. **Autoimmunity** 1996;23(3):165–74

Cytochromes P450 and UDP-glucuronosyl-transferases as hepatocellular autoantigens. Obermayer-Straub P, et al. **Baillieres Clin Gastroenterol** 1996 Sep;10(3):501–32 (139 ref.)

Heterogeneity and immunotherapy of specific T-cells in myasthenia gravis. Bond A, et al. **Biochem Soc Trans** 1997 May;25(2):665–70 (44 ref.)

Characterization of human sperm antigens reacting with sperm antibodies from autologous serum and seminal plasma in an infertile population. Paradisi R, et al. **Biol Reprod** 1996 Jul;55(1):54–61

Characterization of autoantigenic epitopes on platelet glycoprotein IIb/IIIa using random peptide libraries. Bowditch RD, et al. **Blood** 1996 Dec 15;88(12):4579–84

Immunofluorescence-negative bullous pemphigoid sera contain antibodies mostly directed against the 180 kDa bullous pemphigoid antigen (BPAg2) [letter] Ghohestani RF, et al. **Br J Dermatol** 1997 Aug;137(2):306–7

Four Japanese patients with cicatricial pemphigoid showing both IgG and IgA antibodies against the 180 kDa bullous pemphigoid antigen [letter] Hashimoto T, et al. **Br J Dermatol** 1997 Aug;137(2):305–6

Autoantibodies to bullous pemphigoid and epidermolysis bullosa acquisita antigens in an infant. Kawachi Y, et al. **Br J Dermatol** 1996 Sep;135(3):443–7

Herpetiform pemphigus showing reactivity with pemphigus vulgaris antigen (desmoglein 3). Kubo A, et al. **Br J Dermatol** 1997 Jul;137(1):109–13

Interphotoreceptor retinoid binding protein is a potent tolerogen in Lewis rat: suppression of experimental autoimmune uveoretinitis is retinal antigen specific. Laliotou B, et al. **Br J Ophthalmol** 1997 Jan;81(1):61–7

Autoantibodies to tyrosinase: the bridge between melanoma and vitiligo. Fishman P, et al. **Cancer** 1997 Apr 15; 79(8):1461–4

Human cytochrome P450 2E1 is a major autoantigen associated with halothane hepatitis. Bourdi M, et al. **Chem Res Toxicol** 1996 Oct-Nov;9(7):1159–66

Glimpses into the balance between immunity and self-tolerance. Goodnow CC. **Ciba Found Symp** 1997; 204:190–202; discussion 202–7 (25 ref.)

Arrhythmogenicity of IgG and anti-52-kD SSA/Ro affinity-purified antibodies from mothers of children with congenital heart block. Boutjdir M, et al. **Circ Res** 1997 Mar;80(3):354–62

Induction of autoimmune myocarditis in interleukin-2-deficient mice. Grässl G, et al. **Circulation** 1997 Apr 1;95(7):1773–6

Autoantibodies against arterial antigens: characterization by ELISA and immunoblot analysis in the spontaneously hypertensive rat. Ofosu-Appiah W, et al. **Clin Exp Hypertens** 1996 Jan;18(1):21–35

Isolation of antigens recognized by coeliac disease autoantibodies and their use in enzyme immunoassay of endomysium and reticulin antibody-positive human sera. Börner H, et al. **Clin Exp Immunol** 1996 Nov;106(2):344–50

Cytochrome P4502D6: understanding an autoantigen [editorial] Choudhuri K, et al. **Clin Exp Immunol** 1997 Jun; 108(3):381–3 (23 ref.)

Human autoimmune anti-proteinase 3 scFv from a phage display library. Finnern R, et al. **Clin Exp Immunol** 1997 Feb;107(2):269–81

Anti-RNA polymerase antibodies in systemic sclerosis (SSc): association with anti-topoisomerase I antibodies and identification of autoreactive subunits of RNA polymerase II. Harvey GR, et al. **Clin Exp Immunol** 1996 Sep; 105(3):468–74

T cell responses to natural human proteins in primary biliary cirrhosis. Jones DE, et al. **Clin Exp Immunol** 1997 Mar; 107(3):562–8

Immunoprecipitation of melanogenic enzyme autoantigens with vitiligo sera: evidence for cross-reactive autoantibodies to tyrosinase and tyrosinase-related protein-2 (TRP-2). Kemp EH, et al. **Clin Exp Immunol** 1997 Sep;109(3):495–500

Detection of T cells reactive to intestinal alkaline phosphatase, an autoantigen in acute bacterial infections, and discrimination between autoantigen-specific CD5+ and CD5- B cells. Kolbus N, et al. **Clin Exp Immunol** 1997 Apr;108(1):19–25

Expression of human-Torpedo hybrid acetylcholine receptor (AChR) for analysing the subunit specificity of antibodies in sera from patients with myasthenia gravis (MG). Loutrari H, et al. **Clin Exp Immunol** 1997 Sep;109(3):538–46

Anti-Ro52 antibodies frequently co-occur with anti-Jo-1 antibodies in sera from patients with idiopathic inflammatory myopathy. Rutjes SA, et al. **Clin Exp Immunol** 1997 Jul;109(1):32–40

Autoantibodies that stabilize the molecular interaction of Ku antigen with DNA-dependent protein kinase catalytic subunit. Satoh M, et al. **Clin Exp Immunol** 1996 Sep; 105(3):460–7

Novel autoantigens of perinuclear anti-neutrophil cytoplasmic antibodies (P-ANCA) in ulcerative colitis: non-histone chromosomal proteins, HMG1 and HMG2. Sobajima J, et al. **Clin Exp Immunol** 1997 Jan;107(1):135–40

Fine specificity of autoantibodies to La/SSB: epitope mapping, and characterization. Tzioufas AG, et al. **Clin Exp Immunol** 1997 May;108(2):191–8

Antibodies to Jo-1 and Ro-52: why do they go together? [editorial] Venables PJ. **Clin Exp Immunol** 1997 Sep; 109(3):403–5

Autoantigens in Addison's disease and associated syndromes [editorial; [comment] Weetman AP. **Clin Exp Immunol** 1997 Feb;107(2):227–9. Comment on: Clin Exp Immunol 1997 Feb;107(2):335–40.

Benign monoclonal gammopathy with IgG anti-DNA, anti-Sm and anti-F(ab')2 activity. Williams RC Jr, et al. **Clin Exp Rheumatol** 1997 Jan-Feb;15(1):33–8

Incidence and studies on antigenic specificities of antineutrophil-cytoplasmic autoantibodies (ANCA) in poststreptococcal glomerulonephritis. Ardiles LG, et al. **Clin Nephrol** 1997 Jan;47(1):1–5

Gravin, an autoantigen recognized by serum from myasthenia gravis patients, is a kinase scaffold protein. Nauert JB, et al. **Curr Biol** 1997 Jan 1;7(1):52–62

Autoimmunity. How to know thy self [editorial] Hafler DA, et al. **Curr Opin Immunol** 1996 Dec;8(6):805–7 (6 ref.)

Value of antibodies to islet protein tyrosine phosphatase-like molecule in predicting type 1 diabetes. Hawa M, et al. **Diabetes** 1997 Aug;48(8):1270–5

Immunological aspects of nutritional diabetes prevention in NOD mice: a pilot study for the cow's milk-based IDDM prevention trial. Karges W, et al. **Diabetes** 1997 Apr; 46(4):557–64

Major histocompatibility complex class II molecules function as a template for the processing of a partially processed insulin peptide into a T-cell epitope. Lang Y, et al. **Diabetes** 1996 Dec;45(12):1711–9

Tissue-specific self-peptides bound by major histocompatibility complex class I molecules of a human pancreatic beta-cell line. Papadopoulos KP, et al. **Diabetes** 1996 Dec;45(12):1761–5

Autoantibodies to IA-2 in IDDM: location of major antigenic determinants. Zhang B, et al. **Diabetes** 1997 Jan;46(1):40–3

Autoantibody against ICA512 did not improve test sensitivity for slowly progressive IDDM in adults [letter] Kasuga A, et al. **Diabetes Care** 1997 Apr;20(4):679–80

Presence of sulphatide (3'-sulphogalactosylceramide) in pericytes in the choroid layer of the eye: sharing of this glycolipid autoantigen with islets of Langerhans. Buschard K, et al. **Diabetologia** 1996 Jun;39(6):658–66

Autoantibodies to IA-2 not detected in NOD mice or BB rats [letter] DeSilva MG, et al. **Diabetologia** 1996 Oct; 39(10):1237–8

Association of IA-2 autoantibodies with HLA DR4 phenotypes in IDDM. Genovese S, et al. **Diabetologia** 1996 Oct;39(10):1223–6

Islet cell autoantigen 69 antibodies in IDDM [letter; comment] Martin S, et al. **Diabetologia** 1996 Jun;39(6):747 . Comment on: Diabetologia 1995 Mar;38(3):351–5.

T-cell reactivity to GAD65 peptide sequences shared with coxsackie virus protein in recent-onset IDDM, post-onset IDDM patients and control subjects. Schloot NC, et al. **Diabetologia** 1997 Mar;40(3):332–8

Antibodies to the 37,000-Mr tryptic fragment of islet antigen were detected in Japanese insulin-dependent diabetes mellitus patients. Ozawa Y, et al. **Endocr J** 1996 Dec; 43(6):615–20

Human fibroblast-derived molecules as antigens in enzyme-linked immunosorbent assay for coeliac disease-specific IgA. Marttinen A, et al. **Eur J Clin Invest** 1997 Feb;27(2):135–40

Complete congenital heart block is associated with increased autoantibody titers against calreticulin. Orth T, et al. **Eur J Clin Invest** 1996 Mar;26(3):205–15

Update on the thyroid sodium iodide symporter: a novel thyroid antigen emerging on the horizon. Spitzweg C, et al. **Eur J Endocrinol** 1997 Jul;137(1):22–3 (7 ref.)

Endomysium: autoantigen in coeliac disease [comment] Feighery C, et al. **Eur J Gastroenterol Hepatol** 1997 Jul; 9(7):655–6 (14 ref.). Comment on: Eur J Gastroenterol Hepatol 1997 Jul;9(7):657–60.

Differential activation of human autoreactive T cell clones by altered peptide ligands derived from myelin basic protein peptide (87–99). Vergelli M, et al. **Eur J Immunol** 1996 Nov;26(11):2624–34

Autoreactive T cell responses and cytokine patterns reflect resistance to experimental autoimmune myasthenia gravis in Wistar Furth rats. Zhang GX, et al. **Eur J Immunol** 1996 Nov;26(11):2552–8

Myelin protein Po as a potential autoantigen in autoimmune inner ear disease. Cao MY, et al. **FASEB J** 1996 Dec; 10(14):1635–40

Differential recognition of the 52-kd Ro(SS-A) antigen by sera from patients with primary biliary cirrhosis and primary Sjögren's syndrome. Dörner T, et al. **Hepatology** 1996 Dec;24(6):1404–7

Target platelet antigens of autoantibodies in patients with primary biliary cirrhosis. Feistauer SM, et al. **Hepatology** 1997 Jun;25(6):1343–5

Cytochromes P450 and uridine triphosphate-glucuronosyltransferases: model autoantigens to study drug-induced, virus-induced, and autoimmune liver disease. Manns MP, et al. **Hepatology** 1997 Oct; 26(4):1054–66 (147 ref.)

Neonatal injection of an ovarian peptide induces autoimmune ovarian disease in female mice: requirement of endogenous neonatal ovaries. Garza KM, et al. **Immunity** 1997 Jan; 6(1):89–96

Specific recognition of thymic self-peptides induces the positive selection of cytotoxic T lymphocytes. Hu Q, et al. **Immunity** 1997 Aug;7(2):221–31

Signal minus 1: a key factor in immunological tolerance to tissue-specific self antigens? Parish CR. **Immunol Cell Biol** 1996 Jun;74(3):278–85 (50 ref.)

Tryptophanyl-tRNA synthetase as a human autoantigen. Paley EL, et al. **Immunol Lett** 1995 Dec;48(3):201–7

Self determinant selection and acquisition of the autoimmune T cell repertoire. Benichou G, et al. **Immunol Res** 1996; 15(3):234–45 (46 ref.)

T-cell recognition of self peptides as tumor rejection antigens. Kawakami Y, et al. **Immunol Res** 1996; 15(3):179–90 (51 ref.)

Viruses, hidden self-epitopes and autoimmunity. Barnaba V. **Immunol Rev** 1996 Aug;152:47–66 (115 ref.)

The thymic repertoire of neuroendocrine self-antigens: physiological implications in T-cell life and death. Martens H, et al. **Immunol Today** 1996 Jul;17(7):312–7 (44 ref.)

The nature of autoantigens targeted in autoimmune endocrine diseases. Song YH, et al. **Immunol Today** 1996 May; 17(5):232–38 (82 ref.)

Could endogenous self-peptides presented by dendritic cells initiate rheumatoid arthritis? Thomas R, et al. **Immunol Today** 1996 Dec;17(12):559–64 (39 ref.)

B- and T-cell autoantigens in pristane-induced arthritis. Barker RN, et al. **Immunology** 1996 Oct;89(2):189–94

Preferential recognition of human myocardial antigens by T lymphocytes from rheumatic heart disease patients. El-Demellawy M, et al. **Infect Immun** 1997 Jun; 65(6):2197–205

Negative selection by endogenous antigen and superantigen occurs at multiple thymic sites. Douek DC, et al. **Int Immunol** 1996 Sep;8(9):1413–20

The thymus and self-tolerance: co-existence of encephalitogenic S100 beta-specific T cells and their nominal autoantigen in the normal adult rat thymus. Kojima K, et al. **Int Immunol** 1997 Jun;9(6):897–904

Anti-melanoma cytotoxic T lymphocytes (CTL) recognize numerous antigenic peptides having 'self' sequences: autoimmune nature of the anti-melanoma CTL response. Tsomides TJ, et al. **Int Immunol** 1997 Feb;9(2):327–38

Anti-tumor necrosis factor alpha therapy suppresses the induction of experimental autoimmune uveoretinitis in mice by inhibiting antigen priming. Sartani G, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2211–8

Recognition of pemphigus antigens in drug-induced

pemphigus vulgaris and pemphigus foliaceus. Brenner S, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):919–23

Mouse and man: multiple genes and multiple autoantigens in the aetiology of type I DM and related autoimmune disorders. Gottlieb PA, et al. **J Autoimmun** 1996 Apr; 9(2):277–81 (40 ref.)

Detection of human-specific anti-la(SSB) antibodies in patients with rheumatoid arthritis. Manoussakis MN, et al. **J Autoimmun** 1995 Dec;8(6):959–69

Comparison of IA-2 with IA-2beta and with six other members of the protein tyrosine phosphatase family: recognition of antigenic determinants by IDDM sera. Notkins AL, et al. **J Autoimmun** 1997 Jun;10(3):245–50

Mapping of SLE-specific Sm B cell epitopes using murine monoclonal antibodies. Pruijn GJ, et al. **J Autoimmun** 1997 Apr;10(2):127–36

Accessibility of epitopes on the 52-kD Ro/SSA protein (Ro52) and on the RoRNP associated Ro52 protein as determined by anti-peptide antibodies. Ricchiuti V, et al. **J Autoimmun** 1997 Apr;10(2):181–91

Activation of a murine autoreactive B cell by immunization with human recombinant autoantigen La/SS-B: characterization of the autoepitope. Tröster H, et al. **J Autoimmun** 1995 Dec;8(6):825–42

Autoantibody repertoire to Ro/SSA and La/SSB antigens in patients with primary and secondary Sjögren's syndrome. Wahren M, et al. **J Autoimmun** 1996 Aug; 9(4):537–44

Autoreactive epitopes within the human alpha-enolase and their recognition by sera from patients with endometriosis. Walter M, et al. **J Autoimmun** 1995 Dec;8(6):931–45

Cryptic antigenic determinants on the extracellular pyruvate dehydrogenase complex/mimeotope found in primary biliary cirrhosis. A probe by affinity mass spectrometry. Yip TT, et al. **J Biol Chem** 1996 Dec 20;271(51):32825–33

Cytochrome P450 1A2 is a hepatic autoantigen in autoimmune polyglandular syndrome type 1. Clemente MG, et al. **J Clin Endocrinol Metab** 1997 May; 82(5):1353–61

Orbital tissue-derived T lymphocytes from patients with Graves' ophthalmopathy recognize autologous orbital antigens. Otto EA, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3045–50

An extract from cultured human keratinocytes that contains the major autoantigens related to autoimmune bullous skin diseases. Batteux F, et al. **J Clin Immunol** 1997 May; 17(3):228–33

Human anti-Ro autoantibodies bind multiple conformational epitopes of 60-kD Ro autoantigen. Huang SC, et al. **J Clin Immunol** 1997 May;17(3):212–9

Comparative epitope mapping of sera from United States (US) and Japanese patients with bullous pemphigoid (BP) to fusion proteins encoded by BPAG1. Rico MJ, et al. **J Dermatol Sci** 1996 Sep;12(3):238–45

Proteasome alpha-type subunit C9 is a primary target of autoantibodies in sera of patients with myositis and systemic lupus erythematosus. Feist E, et al. **J Exp Med** 1996 Oct 1;184(4):1313–8

Hierarchical self-tolerance to T cell determinants within the ubiquitous nuclear self-antigen La (SS-B) permits induction of systemic autoimmunity in normal mice. Reynolds P, et al. **J Exp Med** 1996 Nov 1;184(5):1857–70

Proteins phosphorylated during stress-induced apoptosis are common targets for autoantibody production in patients with systemic lupus erythematosus. Utz PJ, et al. **J Exp Med** 1997 Mar 3;185(5):843–54

Plasma membrane cytochromes P450 as neoantigens and autoimmune targets in drug-induced hepatitis. Robin MA, et al. **J Hepatol** 1997;26 Suppl 1:23–30 (39 ref.)

Peripheral blood mononuclear cells of insulin-dependent diabetic patients respond to multiple islet cell proteins. Brooks-Worrell BM, et al. **J Immunol** 1996 Dec 15; 157(12):5668–74

Testosterone therapy ameliorates experimental autoimmune encephalomyelitis and induces a T helper 2 bias in the autoantigen-specific T lymphocyte response. Dalal M, et al. **J Immunol** 1997 Jul 1;159(1):3–6

Structural and functional analysis of the B cell epitopes recognized by anti-receptor autoantibodies in patients with Chagas' disease. Elies R, et al. **J Immunol** 1996 Nov 1; 157(9):4203–11

Autoantigenic epitopes on hY5 Ro RNA are distinct from regions bound by the 60-kDa Ro and La proteins. Granger D, et al. **J Immunol** 1996 Sep 1;157(5):2193–200

Highly restricted TCR-alpha beta usage by autoreactive human T cell clones specific for DNA topoisomerase I: recognition of an immunodominant epitope. Kuwana M, et al. **J Immunol** 1997 Jan 1;158(1):485–91

Autoantibodies in insulin-dependent diabetes recognize distinct cytoplasmic domains of the protein tyrosine phosphatase-like IA-2 autoantigen. Lampasona V, et al. **J Immunol** 1996 Sep 15;157(6):2707–11

Identification of rat prostatic steroid-binding protein as a target antigen of experimental autoimmune prostatitis: implications for prostate cancer therapy. Liu KJ, et al. **J Immunol** 1997 Jul 1;159(1):472–80

The B cell response to autologous type II collagen: biased V gene repertoire with V gene sharing and epitope shift. Mo JA, et al. **J Immunol** 1996 Sep 15;157(6):2440–8

Maturation of the antibody response to the major epitope on the self antigen mouse cytochrome c. Restricted V gene usage, selected mutations, and increased affinity. Mueller CM, et al. **J Immunol** 1996 Dec 15;157(12):5329–38

Induction of nonpathologic, humoral autoimmunity in lupus-prone mice by a class II-restricted, transgenic alpha beta T cell. Separation of autoantigen-specific and -nonspecific help. Peng SL, et al. **J Immunol** 1996 Dec 15;157(12):5225–30

The autoimmunity-inducing xenobiotic mercury interacts with the autoantigen fibrillarin and modifies its molecular and antigenic properties. Pollard KM, et al. **J Immunol** 1997 Apr 1;158(7):3521–8

B7 costimulation and autoantigen specificity enable B cells to activate autoreactive T cells. Roth R, et al. **J Immunol** 1996 Oct 1;157(7):2924–31

Autoantibodies to ribosomal P antigens with immune complex glomerulonephritis in SJL mice treated with pristane. Satoh M, et al. **J Immunol** 1996 Oct 1; 157(7):3200–6

Human autoreactive CD4+ T cell clones use perforin- or Fas/Fas ligand-mediated pathways for target cell lysis. Vergelli M, et al. **J Immunol** 1997 Mar 15;158(6):2756–61

Antigen-presenting cells in the thymus that can negatively select MHC class II-restricted T cells recognizing a circulating self antigen. Volkmann A, et al. **J Immunol** 1997 Jan 15;158(2):693–706

Autoantibodies to IA-2 and IA-2 beta in insulin-dependent diabetes mellitus recognize conformational epitopes: location of the 37- and 40-kDa fragments determined. Xie H, et al. **J Immunol** 1997 Oct 1;159(7):3662–7

Autoantibody-mediated capture and presentation of autoantigen to T cells via the Fc epsilon receptor by a recombinant human autoantibody Fab converted to IgE. Guo J, et al. **J Immunol Methods** 1996 Sep 9;195(1-2):81–92

A simple high yield procedure for purification of human proteinase 3, the main molecular target of cANCA. Stummann L, et al. **J Immunol Methods** 1997 Aug 7; 206(1-2):35–42

Islet cell antibody seroconversion in children is temporally associated with enterovirus infections. Childhood Diabetes in Finland (DiMe) Study Group. Hiltunen M, et al. **J Infect Dis** 1997 Mar;175(3):554–60

Bullous pemphigoid and cicatricial pemphigoid autoantibodies react with ultrastructurally separable epitopes on the BP180 ectodomain: evidence that BP180 spans the lamina lucida. Bédane C, et al. **J Invest Dermatol** 1997 Jun;108(6):901–7

Linear IgA bullous dermatosis with IgA antibodies exclusively directed against the 180- or 230-kDa epidermal antigens. Ghohestani RF, et al. **J Invest Dermatol** 1997 Jun;108(6):854–8

The recognition of human 60-kDa Ro ribonucleoprotein particles by antibodies associated with cutaneous lupus and neonatal lupus. Lee LA, et al. **J Invest Dermatol** 1996 Aug; 107(2):225–8

17-beta-estradiol increases expression of 52-kDa and 60-kDa SS-A/Ro autoantigens in human keratinocytes and breast cancer cell line MCF-7. Wang D, et al. **J Invest Dermatol** 1996 Oct;107(4):610–4

A novel subepidermal blistering disease with autoantibodies to a 200-kDa antigen of the basement membrane zone [corrected and republished article originally printed in J Invest Dermatol 1996 Mar;106(3):465–70] Zillikens D, et al. **J Invest Dermatol** 1996 Jun;106(6):1333–8

Tight clustering of extracellular BP180 epitopes recognized by bullous pemphigoid autoantibodies. Zillikens D, et al. **J Invest Dermatol** 1997 Oct;109(4):573–9

Myelin oligodendrocyte glycoprotein: a novel candidate autoantigen in multiple sclerosis. Bernard CC, et al. **J Mol Med** 1997 Feb;75(2):77–88 (64 ref.)

Partial activation of foreign antigen specific T lymphocytes by a self peptide: possible roles of altered peptide ligands in regulating T lymphocyte mediated immune response. Cao W, et al. **J Mol Med** 1996 Oct;74(10):573–82 (104 ref.)

2',3'-cyclic nucleotide 3'-phosphodiesterase: a novel candidate autoantigen in demyelinating diseases. Rösener M, et al. **J Neuroimmunol** 1997 May;75(1-2):28–34

Autoantibodies to peripheral nerve glycosphingolipids SPG, SLPG, and SGPG in Guillain-Barré syndrome and chronic inflammatory demyelinating polyneuropathy. Yuki N, et al. **J Neuroimmunol** 1996 Oct;70(1):1–6

Antibodies of the anti-Yo and anti-Ri type in the absence of paraneoplastic neurological syndromes: a long-term survey of ovarian cancer patients. Drlicek M, et al. **J Neurol** 1997 Feb;244(2):85–9

Recurrent demyelinating transverse myelitis in a high titer HBs-antigen carrier. Matsui M, et al. **J Neurol Sci** 1996 Aug;139(2):235–7

OX-40 antibody enhances for autoantigen specific V beta 8.2+ T cells within the spinal cord of Lewis rats with autoimmune encephalomyelitis. Weinberg AD, et al. **J Neurosci Res** 1996 Jan 1;43(1):42–9

Treatment of relapsing autoimmune encephalomyelitis with T cell receptor V beta-specific antibodies when proteolipid protein is the autoantigen. Whitham RH, et al. **J Neurosci Res** 1996 Jul 15;45(2):104–16

Autoantigenicity of the basal compartment of seminiferous tubules in the rat. Saari T, et al. **J Reprod Immunol** 1996 Aug;31(1-2):65–79

Anti-Ro (SSA) antibodies: clinical significance and biological relevance [editorial; comment] Bouffard P, et al. **J Rheumatol** 1996 Nov;23(11):1838–41. Comment on: J Rheumatol 1996 Nov;23(11):1897–903.

Autoantibodies reactive with Ro(SSA) and La(SSB) and pregnancy. Buyon JP. **J Rheumatol** 1997 Sep;24 Suppl 50:12–6 (47 ref.)

Coexistence of serum anti-DNA topoisomerase I and anti-Sm antibodies: report of 3 cases. Kameda H, et al. **J Rheumatol** 1997 Feb;24(2):400–3

Recombinant 52 kDa Ro(SSA) ELISA detects autoantibodies in Sjögren's syndrome sera that go undetected by conventional serologic assays. McCauliffe DP, et al. **J Rheumatol** 1997 May;24(5):860–6

Fine specificity of anti-Ro(SSA) autoantibodies and clinical manifestations in patients with systemic lupus erythematosus [see comments] Zimmermann C, et al. **J Rheumatol** 1996 Nov;23(11):1897–903. Comment in: J Rheumatol 1996 Nov;23(11):1838–41.

Goodpasture's epitope in development of experimental autoimmune glomerulonephritis in rats. Bolton WK, et al. **Kidney Int** 1996 Feb;49(2):327–34

New T-cell epitope of Ro/SS-A 52 kDa protein in labial salivary glands from patients with Sjögren's syndrome [letter] Sumida T, et al. **Lancet** 1996 Dec 14;348(9042):1667

Can sensitized lymphocytes retain reactivity to inner ear antigens after retrieval from frozen storage? Hughes GB, et al. **Laryngoscope** 1997 Jul;107(7):878–82

Transient neonatal bradycardia without heart block associated with anti-Ro antibodies [letter] Cimaz R, et al. **Lupus** 1997;6(5):487–8

A subpopulation of WIL-2 cell calreticulin molecules is associated with RO/SS-A ribonucleoprotein particles. Lieu TS, et al. **Lupus** 1997;6(1):40–7

Systemic lupus erythematosus: clinical expression and anti-Ro/SS—a response in patients with and without lesions of subacute cutaneous lupus erythematosus. López-Longo FJ, et al. **Lupus** 1997;6(1):32–9

Cutaneous diseases in adults associated with anti-Ro/SS-A autoantibody production. McCauliffe DP. **Lupus** 1997; 6(2):158–66 (100 ref.)

Development of squamous cell carcinoma in chronic discoid lupus erythematosus: a report of two patients with anti-Ro/SSA antibodies [letter] Miyagawa S, et al. **Lupus** 1996 Dec;5(6):630–2

Anti-Ro(SS-A) antibody positive Sjögren's/lupus erythematosus overlap syndrome. Provost TT, et al. **Lupus** 1997;6(2):105–11

Late development of anti-La/SS-B antibodies in a patient with Sjogren's syndrome and high titer anti-Ro/SS-A antibodies. Satoh M, et al. **Lupus** 1996 Aug;5(4):337–9

Immunologically restricted and inhibitory anti-Ro/SSA in monozygotic twins. Scofield RH, et al. **Lupus** 1997; 6(4):395–8

RNA recognition by autoantigens and autoantibodies. Keene JD. **Mol Biol Rep** 1996;23(3-4):173–81 (63 ref.)

Epitope analysis of chromo antigen and clinical features in a subset of patients with anti-centromere antibodies. Muro Y, et al. **Mol Biol Rep** 1996;23(3-4):147–51

The behavior of the coiled body in cells infected with adenovirus in vitro. Rodrigues SH, et al. **Mol Biol Rep** 1996;23(3-4):183–9

Autoantibodies recognizing proteins copurified with PCNA in patients with connective tissue diseases. Takeuchi K, et al. **Mol Biol Rep** 1996;23(3-4):243–6

Characterization of a cell cycle-dependent nuclear autoantigen. Zuber M. **Mol Biol Rep** 1996;23(3-4):197–203

Induction of anti-polycation antibodies in H-2s mice by immunization with nuclear antigens. Monestier M, et al. **Mol Immunol** 1997 Jan;34(1):39–51

Identification of tissue transglutaminase as the autoantigen of celiac disease [see comments] Dieterich W, et al. **Nat Med** 1997 Jul;3(7):797–801. Comment in: Nat Med 1997 Jul;3(7):725–6.

Transgenic plants expressing autoantigens fed to mice to induce oral immune tolerance. Ma SW, et al. **Nat Med** 1997 Jul;3(7):793–6

Transglutaminase, gluten and celiac disease: food for thought. Transglutaminase is identified as the autoantigen of celiac disease [news; comment] Marsh MN. **Nat Med** 1997 Jul; 3(7):725–6. Comment on: Nat Med 1997 Jul;3(7):797–801.

Scleroderma: a disease related to damaged proteins? [news] Peng SL, et al. **Nat Med** 1997 Mar;3(3):276–8

Rapid and sensitive detection of anti-Ro (SS-A) antibodies by indirect immunofluorescence of 60kDa Ro HEp-2 transfectants. Keech CL, et al. **Pathology** 1996 Jan; 28(1):54–7

Immune response to a differentiation antigen induced by altered antigen: a study of tumor rejection and autoimmunity. Naftzger C, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14809–14

Ocular cicatricial pemphigoid antigen: partial sequence and biochemical characterization. Tyagi S, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14714–9

ANCA defines the clinical disease manifestations of vasculitis. Zhao MH, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Oct;13(3):221–6 (59 ref.)

Binding specificities of a polyreactive and a monoreactive human monoclonal IgG rheumatoid factor: role of oligosaccharides. al-Balaghi S, et al. **Scand J Immunol** 1996 Nov;44(5):470–7

Antibody reactivity against thyroid peroxidase and myeloperoxidase in autoimmune thyroiditis and systemic vasculitis. Haapala AM, et al. **Scand J Immunol** 1997 Jul; 46(1):78–85

Altered peptide ligands of a myasthenogenic epitope as

modulators of specific T-cell responses. Kirshner SL, et al. **Scand J Immunol** 1996 Nov;44(5):512-21

Anti-idiotypic T cells in early stages of myasthenia gravis: increase in the number and prevalence correlated to clinical improvement in patients. Yi Q, et al. **Scand J Immunol** 1996 Dec;44(6):630-7

Neonatal lupus: bedside to bench and back [editorial] Buyon JP. **Scand J Rheumatol** 1996;25(5):271-6 (49 ref.)

Induction of autoimmune diabetes by oral administration of autoantigen. Blanas E, et al. **Science** 1996 Dec 6; 274(5293):1707-9

Identification of alpha-fodrin as a candidate autoantigen in primary Sjögren's syndrome. Haneji N, et al. **Science** 1997 Apr 25;276(5312):604-7

Binding of immunoglobulin G from patients with autoimmune thyroid disease to rat sodium-iodide symporter peptides: evidence for the iodide transporter as an autoantigen. Morris JC, et al. **Thyroid** 1997 Aug; 7(4):527-34

Autoantibodies--what do they recognize? Tan EM. **Verh Dtsch Ges Pathol** 1996;80:1-11 (29 ref.)

Antineutrophil nuclear antibodies (ANNA) in primary biliary cirrhosis: their prevalence and antigen specificity. Orth T, et al. **Z Gastroenterol** 1997 Feb;35(2):113-21

Immunodominant autoepitopes. Mechanisms of autoantibody induction in autoimmune diseases?] Dörner T, et al. **Dtsch Med Wochenschr** 1996 Oct 11;121(41):1267-70 (18 ref.) **(Ger)**

[The demonstration and specificity of autoreactive T-lymphocytes in type-1 diabetes] Lohmann T, et al. **Dtsch Med Wochenschr** 1997 Jun 6;122(23):737-42 (Eng. Abstr.) **(Ger)**

[Nucleosome as an autoantigen in systemic lupus erythematosus] Gruenbaum E, et al. **Harefuah** 1997 Apr 1;132(7):475-8 (29 ref.) **(Heb)**

[Analysis of autoantigen-reactive T cells in MCTD and SLE] Okubo M. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec; 19(6):609-13 **(Jpn)**

[Peripheral nerve myelin antigen-specific T cells in human] Ota K, et al. **Rinsho Shinkeigaku** 1996 Jul;36(7):898-901 (Eng. Abstr.) **(Jpn)**

[Sjögren's syndrome and anti-Ro syndrome] Tanaka M. **Ryoikibetsu Shokogun Shirizu** 1996;(15):379-82 (17 ref.) **(Jpn)**

[The structure of the determinants of streptococcal group A polysaccharide common to epidermal antigens to which antibodies are formed at different stages of the rheumatic process] Bazanova EA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct;(5):16-9 (Eng. Abstr.) **(Rus)**

[Autoantibodies to brain tissue antigens in epilepsy patients] Morozov SG, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):71-4 (Eng. Abstr.) **(Rus)**

[Clinical expression of systemic lupus erythematosus with anti-U1-RNP and anti-Sm antibodies] López-Longo FJ, et al. **Rev Clin Esp** 1997 May;197(5):329-35 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Purification and crystallisation of the autoantigen thyroid peroxidase from human Graves' thyroid tissue. Gardas A, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):366-70

Isolation of antigens recognized by coeliac disease autoantibodies and their use in enzyme immunoassay of endomysium and reticulin antibody-positive human sera. Börner H, et al. **Clin Exp Immunol** 1996 Nov;106(2):344-50

An extract from cultured human keratinocytes that contains the major autoantigens related to autoimmune bullous skin diseases. Batteux F, et al. **J Clin Immunol** 1997 May; 17(3):228-33

Analysis of antigens recognized by autoantibodies in herpes gestationis. Usefulness of immunoblotting using a fusion protein representing an extracellular domain of the 180 kD bullous pemphigoid antigen. Murakami H, et al. **J Dermatol Sci** 1996 Nov;13(2):112-7

A simple high yield procedure for purification of human proteinase 3, the main molecular target of cANCA. Stummann L, et al. **J Immunol Methods** 1997 Aug 7; 206(1-2):35-42

A comprehensive method to purify three major ANCA antigens: proteinase 3, myeloperoxidase and bactericidal/permeability-increasing protein from human neutrophil granule acid extract. Zhao MH, et al. **J Immunol Methods** 1996 Oct 16;197(1-2):121-30

METABOLISM

Interactions of rat repetitive sequence MspI8 with nuclear matrix proteins during spermatogenesis. Rogoliński J, et al. **Acta Biochim Pol** 1996;43(2):319-24

Validation studies of SNRPN methylation as a diagnostic test for Prader-Willi syndrome. Kubota T, et al. **Am J Med Genet** 1996 Dec 2;66(1):77-80

Nuclear proteins bind to poliovirus 5' untranslated region [published erratum appears in Arch Med Res 1996 Winter;27(4):589] Gutiérrez-Escolano L, et al. **Arch Med Res** 1996 Autumn;27(3):413-9

Stress-induced cell surface expression and antigenic alteration of the Ro/SSA autoantigen. Igarashi T, et al. **Autoimmunity** 1995;22(1):33-42

Release of calreticulin from neutrophils may alter C1q-mediated immune functions. Kishore U, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):543-50

Histone-binding domains in a human nuclear autoantigenic sperm protein. Batova I, et al. **Biol Reprod** 1996 Jun; 54(6):1238-44

Heat inactivation of Ku autoantigen: possible role in hyperthermic radiosensitization. Burgman P, et al. **Cancer Res** 1997 Jul 15;57(14):2847-50

Phosphorylation of the human La antigen on serine 366 can regulate recycling of RNA polymerase III transcription complexes. Fan H, et al. **Cell** 1997 Mar 7;88(5):707-15

The yeast La protein is required for the 3' endonucleolytic cleavage that matures tRNA precursors. Yoo CJ, et al. **Cell** 1997 May 2;89(3):393-402

The autoantigen La/SSB is a calmodulin-binding protein. Castro A, et al. **Cell Calcium** 1996 Dec;20(6):493-500

Effect of anti-thyroid peroxidase (TPO) antibodies on TPO activity measured by chemiluminescence assay. Kaczur V, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1392-6

RNA-labelled Ro and La ribonucleoprotein complexes reassembled in vitro; characterization by gel shift analysis. Granger D, et al. **Clin Exp Immunol** 1996 Dec; 106(3):498-503

Autoantibodies that stabilize the molecular interaction of Ku antigen with DNA-dependent protein kinase catalytic subunit. Satoh M, et al. **Clin Exp Immunol** 1996 Sep; 105(3):460-7

Cytoskeleton: missing links found? Bousquet O, et al. **Curr Biol** 1996 Dec 1;6(12):1563-6 (17 ref.)

Anti-arrestin immunoreactivity in the human retina: difference between light- and dark-adaptation. Loeffler KU, et al. **Curr Eye Res** 1995 Dec;14(12):1165-8

Internalization and recycling of glycoprotein 280 in epithelial cells of yolk sac. Le Panse S, et al. **Eur J Cell Biol** 1997 Mar;72(3):257-67

Do epitopes derived from autoantigens display low affinity for MHC class I? [letter; comment] van der Burg SH, et al. **Immunol Today** 1997 Feb;18(2):97-8. Comment on: Immunol Today 1996 Feb;17(2):80-85.

Ku selectively transfers between DNA molecules with homologous ends. Bliss TM, et al. **J Biol Chem** 1997 Feb 28;272(9):5765-73

Specific interaction in vitro and in vivo of glyceraldehyde-3-phosphate dehydrogenase and LA protein with cis-acting RNAs of human parainfluenza virus type 3. De BP, et al. **J Biol Chem** 1996 Oct 4; 271(40):24728-35

The polymyositis-scleroderma autoantigen interacts with the helix-loop-helix proteins E12 and E47. Kho CJ, et al. **J Biol Chem** 1997 May 16;272(20):13426-31

Endosomal localization of the autoantigen EEA1 is mediated by a zinc-binding FYVE finger. Stenmark H, et al. **J Biol Chem** 1996 Sep 27;271(39):24048-54

The localization of bullous pemphigoid antigen 180 (BP180) in hemidesmosomes is mediated by its cytoplasmic domain and seems to be regulated by the beta4 integrin subunit. Borradori L, et al. **J Cell Biol** 1997 Mar 24;136(6):1333-47

Influenza virus NS1 protein alters the subnuclear localization of cellular splicing components. Fortes P, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1001-7

Nuclear scaffold proteins are differently sensitive to stabilizing treatment by heat or Cu++. Neri LM, et al. **J Histochem Cytochem** 1997 Feb;45(2):295-305

Disparate locations of the 52- and 60-kDa Ro/SS-A antigens in cultured human keratinocytes. Yell JA, et al. **J Invest Dermatol** 1996 Oct;107(4):622-6

Absence of a persistently elevated 37 kDa fos-related antigen and AP-1-like DNA-binding activity in the brains of kainic acid-treated fosB null mice. Mandelzys A, et al. **J Neurosci** 1997 Jul 15;17(14):5407-15

Major histocompatibility complex as an antigen pump: self-declaration in somatic cell society. Chigira M. **Med Hypotheses** 1997 Jul;49(1):41-5 (63 ref.)

Autoimmune diseases: nuclear autoantigens can be found at the cell-surface. Jordan P, et al. **Mol Biol Rep** 1995-96; 22(1):63-6 (49 ref.)

A carboxy-terminal basic region controls RNA polymerase III transcription factor activity of human La protein. Goodier JL, et al. **Mol Cell Biol** 1997 Oct;17(10):5823-32

Human La protein: a stabilizer of histone mRNA. McLaren RS, et al. **Mol Cell Biol** 1997 Jun;17(6):3028-36

An islet-cell protein tyrosine phosphatase is a likely precursor to the 37-kDa autoantigen in type 1 diabetes: human and macaque sequences, tissue distribution, unique and shared epitopes, and predictive autoantibodies. LaGasse J, et al. **Mol Med** 1997 Mar;3(3):163-73

Characterization of the autoantigen La (SS-B) as a dsRNA unwinding enzyme. Hühn P, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):410-6

The La antigen binds 5' noncoding region of the hepatitis C virus RNA in the context of the initiator AUG codon and stimulates internal ribosome entry site-mediated translation. Ali N, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2249-54

DEK, an autoantigen involved in a chromosomal translocation in acute myelogenous leukemia, binds to the HIV-2 enhancer. Fu GK, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1811-5

Intermediate filament linker proteins. Fuchs E, et al. **Soc Gen Physiol Ser** 1997;52:141-8 (39 ref.)

PHARMACOLOGY

Treatment with GAD65 or BSA does not protect against diabetes in BB rats. Petersen JS, et al. **Autoimmunity** 1997; 25(3):129-38

The systemic lupus erythematosus (SLE) disease autoantigen-calreticulin can inhibit C1q association with immune complexes. Kishore U, et al. **Clin Exp Immunol** 1997 May;108(2):181-90

Anti-Ro/SSA associated recurrent annular erythema: autoimmune response to recombinant 60- and 52-kDa Ro/SSA proteins. Miyagawa S, et al. **J Dermatol Sci** 1996 Jun;12(2):127-31

Cloning and analysis of IgG kappa and IgG lambda anti-thyroglobulin autoantibodies from a patient with Hashimoto's thyroiditis: evidence for in vivo antigen-driven repertoire selection. McIntosh RS, et al. **J Immunol** 1996 Jul 15;157(2):927-35

Development of CD4-CD8- alpha beta TCR+NK1.1+ T lymphocytes: thymic selection by self antigen. Schulz RJ, et al. **J Immunol** 1996 Nov 15;157(10):4379-89

The La autoantigen contains a dimerization domain that is essential for enhancing translation. Craig AW, et al. **Mol Cell Biol** 1997 Jan;17(1):163-9

PHYSIOLOGY

Self-peptide ligands affect T cell recognition of the homologous influenza A matrix virus peptide M.58-66: modification of the HLA-A2.1/peptide complex structure and T cell antagonism. Hlavac F, et al. **Hum Immunol** 1997 Apr 15;54(1):48-53

The nature of cryptic epitopes within the self-antigen myelin basic protein. Fairchild PJ, et al. **Int Immunol** 1996 Jul; 8(7):1035-43

Human desmocollin 1 (Dsc1) is an autoantigen for the subcorneal pustular dermatosis type of IgA pemphigus. Hashimoto T, et al. **J Invest Dermatol** 1997 Aug; 109(2):127-31

Aberrant expression of a hemidesmosomal protein, bullous pemphigoid antigen 2, in human squamous cell carcinoma. Yamada T, et al. **Lab Invest** 1996 Oct;75(4):589-600

Cloning and characterization of rat Ku70: involvement of Ku autoantigen in the heat-shock response. Yang SH, et al. **Radiat Res** 1996 Dec;146(6):603-11

RADIATION EFFECTS

Ultraviolet light modulation of autoantigens, epidermal cytokines and adhesion molecules as contributing factors of the pathogenesis of cutaneous LE. Bennion SD, et al. **Lupus** 1997;6(2):181-92 (116 ref.)

THERAPEUTIC USE

From Th1 to Th2: diabetes immunotherapy shifts gears [news; comment] Solimena M, et al. **Nat Med** 1996 Dec; 2(12):1311-2. Comment on: Nat Med 1996 Dec;2(12):1348-53.

Modulating autoimmune responses to GAD inhibits disease progression and prolongs islet graft survival in diabetes-prone mice [see comments] Tian J, et al. **Nat Med** 1996 Dec;2(12):1348-53. Comment in: Nat Med 1996 Dec;2(12):1311-2.

AUTOBIOGRAPHIES see **AUTOBIOGRAPHY**

AUTOBIOGRAPHY

The social construction of the remembered self: family recounting. Hirst W, et al. **Ann N Y Acad Sci** 1997 Jun 18;818:163-88 (43 ref.)

Souvenirs about a foundation anniversary. Fourty years as editor-in-chief 1956-1996. Wegmann RJ. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):i-vii

"Song of ourselves": a quantitative history of American autobiographies. Levin JS, et al. **Gerontologist** 1996 Aug; 36(4):448-53

Bilateral ECT and autobiographical memory of subjective experiences related to melancholia: a pilot study. Peretti CS, et al. **J Affect Disord** 1996 Nov 4;41(1):9-15

Daughters of AEsculapius: a selected bibliography of autobiographies of women medical school graduates 1849-1920. Sirridge MS, et al. **Lit Med** 1996 Fall; 15(2):200-16

Autobiographical memory and executive function in early dementia of Alzheimer type. Greene JD, et al. **Neuropsychologia** 1995 Dec;33(12):1647-70

[Individualization of retrograde amnesias. On the basis of autobiographical and semantic forms] Barraquer-Bordas LL. **Rev Neurol** 1997 Jul;25(143):1134 **(Spa)**

AUTOCRINE MOTILITY FACTOR

CHEMISTRY

Autotaxin is an exoenzyme possessing 5'-nucleotide phosphodiesterase/ATP pyrophosphatase and ATPase activities. Clair T, et al. **J Biol Chem** 1997 Jan 10; 272(2):996-1001

DRUG EFFECTS

Suramin disrupts insulin-like growth factor-II (IGF-II) mediated autocrine growth in human SH-SY5Y

neuroblastoma cells. Sullivan KA, et al. **Brain Res** 1997 Jan 9;744(2):199–206

GENETICS

Treatment of fibroblast-like synoviocytes with IFN-gamma results in the down-regulation of autotaxin mRNA. Santos AN, et al. **Biochem Biophys Res Commun** 1996 Dec 13; 229(2):419–24

Expression and transcriptional regulation of the PD-Ialpha/autotaxin gene in neuroblastoma. Kawagoe H, et al. **Cancer Res** 1997 Jun 15;57(12):2516–21

METABOLISM

Nucleotide binding to autotaxin: crosslinking of bound substrate followed by lysC digestion identifies two labeled peptides. Clair T, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):449–54

Stimulation of tumor cell motility linked to phosphodiesterase catalytic site of autotaxin. Lee HY, et al. **J Biol Chem** 1996 Oct 4;271(40):24408–12

PHYSIOLOGY

Regulation of autocrine motility factor receptor expression in tumor cell locomotion and metastasis. Silletti S, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):137–69 (153 ref.)

AUTOGENIC TRAINING

Self-hypnosis training and captivity survival. Wood DP, et al. **Am J Clin Hypn** 1997 Jan;39(3):201–11

The effect of autogenic training and biofeedback on motion sickness tolerance. Jozsvai EE, et al.
Aviat Space Environ Med 1996 Oct;67(10):963–8

Application of autogenic training for anxiety disorders: a clinical study in a psychiatric setting. Sakai M.
Fukuoka Igaku Zasshi 1997 Mar;88(3):56–64

Self-hypnosis reduces anxiety following coronary artery bypass surgery. A prospective, randomized trial. Ashton C Jr, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):69–75

Comment on autogenic training and hypertension. Sakai M, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1234

Autogenic training and dream recall. Schredl M, et al.
Percept Mot Skills 1997 Jun;84(3 Pt 2):1305–6

Chronobiometric assessment of autogenic training effects upon blood pressure and heart rate. Watanabe Y, et al.
Percept Mot Skills 1996 Dec;83(3 Pt 2):1395–410

Two cases of panic disorder treated with autogenic training and in vivo exposure without medication. Sakai M, et al.
Psychiatry Clin Neurosci 1996 Dec;50(6):335–6

[Autogenic training in children and adolescents with type 1 diabetes mellitus] Göhr M, et al.
Prax Kinderpsychol Kinderpsychiatr 1997 Apr; 46(4):288–303 (Eng. Abstr.) **(Ger)**

[The process and effect of heaviness exercise in autogenic training: factor analytical study of subjective response induced by the concentration upon and formal language of the sense of heaviness in the arm] Ikezuki M, et al.
Shinrigaku Kenkyu 1996 Feb;66(6):443–8 (Eng. Abstr.) **(Jpn)**

[Changes in parameters of mental activity as a result of voluntary relaxation] Legostaev GN. **Fiziol Cheloveka** 1996 Sep–Oct;22(5):135–7 **(Rus)**

[The results of autogenic training in patients with ischemic heart disease after an aortocoronary bypass operation] Rakov AL, et al. **Voen Med Zh** 1997 Feb;318(2):37–41, 79 (Eng. Abstr.) **(Rus)**

METHODS

Emphasis on the need for timing of autogenic training. Watanabe Y, et al. **Percept Mot Skills** 1997 Aug;85(1):121–2

AUTOGRAFT see **TRANSPLANTATION, AUTOLOGOUS**

AUTOIMMUNE DISEASES

The immune system in neurologic disease: selected recent developments. Toyka KV. **Acta Neurol Belg** 1996 Sep; 96(3):185–8 (18 ref.)

Alopecia universalis with remission during pregnancy and prednisolone therapy. Asanuma N, et al. **Am J Med Sci** 1997 Jan;313(1):67–9

Multiple sclerosis: immune mechanism and update on current therapies. Bansil S, et al. **Ann Neurol** 1995 May;37 Suppl 1:S87–101 (147 ref.)

Autoimmune central nervous system paraneoplastic disorders: mechanisms, diagnosis, and therapeutic options. Dropcho EJ. **Ann Neurol** 1995 May;37 Suppl 1:S102–13 (141 ref.)

Chronic motor neuropathies: diagnosis, therapy, and pathogenesis. Kornberg AJ, et al. **Ann Neurol** 1995 May; 37 Suppl 1:S43–50 (88 ref.)

Lambert-Eaton myasthenic syndrome: clinical diagnosis, immune-mediated mechanisms, and update on therapies. Sanders DB. **Ann Neurol** 1995 May;37 Suppl 1:S63–73 (58 ref.)

Clincial, immunologic, and genetic features of an autoimmune lymphoproliferative syndrome associated with abnormal lymphocyte apoptosis. Sneller MC, et al. **Blood** 1997 Feb 15;89(4):1341–8

Role of alfacalcidiol on bone quality and immunomodulation in autoimmune disease and organ transplantation. Dequeker J, et al. **Calcif Tissue Int** 1997 Jan;60(1):128–9 (14 ref.)

Autoimmune disease in pregnancy. Systemic lupus erythematosus and antiphospholipid syndrome. Silver RM, et al. **Clin Perinatol** 1997 Jun;24(2):291–320 (240 ref.)

Autoimmune vasculitis: a good clinical and basic exercise. Meroni PL, et al. **Clin Rev Allergy Immunol** 1997 Spring; 15(1):1–3 (0 ref.)

The biobreeding Worcester rat--a model of organ-specific autoimmunity. Allen EM, et al.
Exp Clin Endocrinol Diabetes 1996;104 Suppl 3:7–10 (51 ref.)

The role of the target organ in the development of autoimmune diseases exemplified in the obese strain (OS) chicken model for human Hashimoto disease. Wick G.
Exp Clin Endocrinol Diabetes 1996;104 Suppl 3:1–4 (27 ref.)

Pregnancy in patients with immune thrombocytopenic purpura [letter] Lourenço DM, et al. **Haematologica** 1997 May–Jun;82(3):383–4

Autoimmune hepatitis in childhood: a 20-year experience. Gregorio GV, et al. **Hepatology** 1997 Mar;25(3):541–7

Low-dose aspirin in prevention of miscarriage in women with unexplained or autoimmune related recurrent miscarriage: effect on prostacyclin and thromboxane A2 production. Tulppala M, et al. **Hum Reprod** 1997 Jul; 12(7):1567–72

Autoimmune liver disease in childhood. Gregorio GV, et al. **Indian J Gastroenterol** 1997 Apr;16(2):60–3 (20 ref.)

Effect of pregnancy on autoimmune disease [letter] Imai A, et al. **Int J Gynaecol Obstet** 1996 Mar;52(3):283–4

Bullous pemphigoid and rheumatoid arthritis: is there disease association? [letter] Sant SM, et al. **Ir J Med Sci** 1997 Apr–Jun;166(2):106–7

Proceedings of Physiology and Disease, a symposium on the occasion of the 100th anniversary of Louis Pasteur's death. 13–15 November 1995. **J Autoimmun** 1996 Apr; 9(2):205–304

Molecular mimicry and T cell-mediated autoimmune disease [comment] Barnaba V, et al. **J Exp Med** 1997 May 5; 185(9):1529–31 (29 ref.). Comment on: J Exp Med 1997 May 5;185(9):1651–9.

Fetal alloimmune thrombocytopenia: consensus and controversy. Bussel JB, et al. **J Matern Fetal Med** 1996 Sep–Oct;5(5):281–92 (56 ref.)

The autoimmune bullous diseases. Wakelin SH, et al.
J R Coll Physicians Lond 1997 Jul–Aug;31(4):364–8 (19 ref.)

Isolated necrotizing and granulomatous vasculitis causing ischemic bowel disease in primary Sjögren's syndrome [letter] Lie JT. **J Rheumatol** 1995 Dec;22(12):2375–7

HLA-DR restrictive supertypes dominate promiscuous T cell recognition: association of multiple HLA-DR molecules with susceptibility to autoimmune diseases. Ou D, et al. **J Rheumatol** 1997 Feb;24(2):253–61 (73 ref.)

Primary antiphospholipid syndrome evolving into systemic lupus erythematosus [letter; comment] Seisdedos L, et al. **Lupus** 1997;6(3):285–6. Comment on: Lupus 1996 Feb;5(1):4–5.

Herpetic viruses and spontaneous recovery in melanoma. Motofei IG. **Med Hypotheses** 1996 Aug;47(2):85–8

Psychoneuroimmunology: animal models of disease. Moynihan JA, et al. **Psychosom Med** 1996 Nov–Dec; 58(6):546–58 (114 ref.)

Experimental allergic neuritis (EAN) as a model for the immune-mediated demyelinating neuropathies. Hahn AF. **Rev Neurol (Paris)** 1996 May;152(5):328–32 (48 ref.)

The Guillain-Barré syndrome; pathogenesis and treatment. Van Der Meché FG. **Rev Neurol (Paris)** 1996 May; 152(5):355–8 (24 ref.)

Inherited deficiencies of complement in rheumatic diseases. Ratnoff WD. **Rheum Dis Clin North Am** 1996 Feb; 22(1):75–94 (73 ref.)

Autoimmune coagulation disorders. Scott-Timperley LJ, et al. **Rheum Dis Clin North Am** 1997 May;23(2):411–23 (53 ref.)

Graves' disease and autoimmune factor VIII deficiency. Sievert R, et al. **Thyroid** 1996 Jun;6(3):245–7

Management of autoimmune hepatitis. Nishioka M.
Trop Gastroenterol 1997 Jan–Mar;18(1):3–7 (15 ref.)

Autoimmune hepatitis.
Definition--classification--histopathology--immunopathogenesis. Meyer zum Büschenfelde KH, et al. **Virchows Arch** 1996 Sep;429(1):1–12 (117 ref.)

[Uncertainties and the physician's responsibility in immunopathologic conditions] Fučíková T.
Cas Lek Cesk 1996 Sep 11;135(17):543–7 (Eng. Abstr.) **(Cze)**

[Autoimmunity: a concept to be revisited?] Dupond JL, et al. **Rev Med Interne** 1997;18(1):72–6 (45 ref.) (Eng. Abstr.) **(Fre)**

[Recent interdisciplinary diagnosis and therapy of endocrine orbitopathy] Kahaly G, et al. **Dtsch Med Wochenschr** 1997 Jan 3;122(1–2):27–32 (19 ref.) **(Ger)**

[Autoimmune diseases and cytokines] Akahoshi T.
Nippon Naika Gakkai Zasshi 1996 Jun 10;85(6):936–41 (9 ref.) **(Jpn)**

[Costimulatory molecules in autoimmunity: role of CD28/CTLA4–CD80/CD86] Nakajima A, et al.
Nippon Rinsho 1997 Jun;55(6):1419–24 (35 ref.) (Eng. Abstr.) **(Jpn)**

[Recent advances in animal models of autoimmune disease] Sakaguchi S. **Nippon Rinsho** 1997 Jun;55(6):1377–83 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Peptide binding motif for HLA class I and autoimmune disease] Sakaguchi T, et al. **Nippon Rinsho** 1997 Jun; 55(6):1397–402 (22 ref.) (Eng. Abstr.) **(Jpn)**

[A case of pregnancy with insulin autoimmune syndrome] Asami M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Sep;48(9):853–6 **(Jpn)**

[Seronegative spondylarthropathy] Baba H, et al.
Ryoikibetsu Shokogun Shirizu 1996;(15):360–4 (15 ref.) **(Jpn)**

[Antitubular basement membrane antibody nephritis] Ueda S, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):137–9 (17 ref.) **(Jpn)**

BLOOD

In vitro apoptosis and expression of apoptosis-related molecules in lymphocytes from patients with systemic lupus erythematosus and other autoimmune diseases. Lorenz HM, et al. **Arthritis Rheum** 1997 Feb;40(2):306–17

Plasma levels of activated FVII in various diseases. Yamada A, et al. **Blood Coagul Fibrinolysis** 1996 Nov;7(8):794–8

Dietary fat affects lipids and anti-cardiolipin antibody levels in autoimmune-prone NZB/W F1 mice. Lin BF, et al.
Br J Nutr 1997 Apr;77(4):657–69

Clinical use of the measurement of soluble cell adhesion molecules in patients with autoimmune rheumatic diseases [see comments] Sfikakis PP, et al.
Clin Diagn Lab Immunol 1997 May;4(3):241–6 (50 ref.). Comment in: Clin Diagn Lab Immunol 1997 Jul;4(4):496–7.

Assessment of thyroid growth stimulating activity of immunoglobulins from patients with autoimmune thyroid disease by cytokinesis arrest assay. Miyamoto S, et al.
Eur J Endocrinol 1997 May;136(5):499–507

Anemia of chronic disorders in systemic autoimmune diseases. Bertero MT, et al. **Haematologica** 1997 May–Jun; 82(3):375–81 (87 ref.)

Priming of NADPH oxidase by tumor necrosis factor alpha in patients with inflammatory and autoimmune rheumatic diseases. Miesel R, et al. **Inflammation** 1996 Aug; 20(4):427–38

Hormonal responses during various phases of autoimmune adrenal failure: no evidence for 21-hydroxylase enzyme activity inhibition in vivo. Boscaro M, et al.
J Clin Endocrinol Metab 1996 Aug;81(8):2801–4

Characterization of a new case of autoimmune type I hyperlipidemia: long-term remission under immunosuppressive therapy. Pruneta V, et al.
J Clin Endocrinol Metab 1997 Mar;82(3):791–6

Factors defining target specificity in antibody-mediated neuropathy: density-dependent binding of anti-GD1a polyclonal IgG from a neurological patient. Kremer DM, et al. **J Neurosci Res** 1997 Mar 15;47(6):636–41

C2 deficiency in blood donors and lupus patients: prevalence, clinical characteristics and HLA-associations in the Brazilian population. Araújo MN, et al. **Lupus** 1997; 6(5):462–6

Flow cytometric detection of circulating activated platelets in primary antiphospholipid syndrome. Correlation with thrombocytopenia and anticardiolipin antibodies. Fanelli A, et al. **Lupus** 1997;6(3):261–7

Gel test application for IgG subclass detection in auto-immune haemolytic anaemia. Fabijańska-Mitek J, et al. **Vox Sang** 1997;72(4):233–7

[Antineutrophil cytoplasmic antibodies (ANCA): study of their presence in diseases not associated with arteritis] Novo E, et al. **Invest Clin** 1996 Jun;37(2):83–94 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Autoimmune hepatitis triggered by administration of an herbal medicine. Kamiyama T, et al.
Am J Gastroenterol 1997 Apr;92(4):703–4 (11 ref.)

Pemoline-induced autoimmune hepatitis. Sterling MJ, et al.
Am J Gastroenterol 1996 Oct;91(10):2233–4

Thymus atrophy and changes in thymocyte subpopulations of BN rats with mercury-induced renal autoimmune disease. Kosuda LL, et al. **Autoimmunity** 1996;23(2):77–89

Drug-induced linear IgA disease: target antigens are heterogeneous. Paul C, et al. **Br J Dermatol** 1997 Mar; 136(3):406–11

Induction by chronic autoimmune arthritis in DBA/1 mice by oral administration of type II collagen and Escherichia coli lipopolysaccharide. Terato K, et al.
Br J Rheumatol 1996 Sep;35(9):828–38

Susceptibility to clinically manifest cyclosporine A (CsA)-induced autoimmune disease is associated with interferon-gamma (IFN-gamma)-producing CD45RC+RT6- T helper cells [published erratum appears in Clin Exp Immunol 1997 Jan;107(1):224] Beijleveld LJ, et al. **Clin Exp Immunol** 1996 Sep;105(3):486–96

Class II haplotype differentially regulates immune response in HgCl2-treated mice. Hanley GA, et al.
Clin Immunol Immunopathol 1997 Sep;84(3):328–37

5-azacytidine treatment induces autoimmune vitiligo in parental control strains of the Smyth line chicken model for autoimmune vitiligo. Sreekumar GP, et al.
Clin Immunol Immunopathol 1996 Nov;81(2):136–44

Study of immune reactivity of minocycline-induced chronic active hepatitis. Herzog D, et al. **Dig Dis Sci** 1997 May; 42(5):1100–3

Cytokine-induced autoimmune disorders. Miossec P.

Drug Saf 1997 Aug;17(2):93–104 (123 ref.)

Th1/Th2 cytokine gene expression after mercuric chloride in susceptible and resistant rat strains. Gillespie KM, et al. **Eur J Immunol** 1996 Oct;26(10):2388–92

Oral, perioral and systemic pathosis in HgCl2-induced autoimmunity in the BN rat. Warfvinge G, et al. **Eur J Oral Sci** 1997 Apr;105(2):153–61

Early indicators of immunotoxicity: development of molecular biological test batteries. Vandebriel RJ, et al. **Hum Exp Toxicol** 1996 Mar;15 Suppl 1:S1, S2–10 (10 ref.)

Experimental autoimmune uveitis: molecular mimicry and oral tolerance. Singh VK, et al. **Immunol Res** 1996; 15(4):323–46 (179 ref.)

Evidence for heterogeneous TCR V beta repertoire expression in mercury-induced immune disorders in rats. Fillion J, et al. **Int Immunol** 1997 Feb;9(2):263–71

Induction of experimental autoimmune anterior uveitis by a self-antigen: melanin complex without adjuvant. Bora NS, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):2171–5

Experimental autoimmune uveoretinitis induced by the gamma-subunit of cyclic guanosine monophosphate phosphodiesterase in rats. Ren J, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2527–31

Minocycline-related lupus erythematosus with associated liver disease. Crosson J, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):867–8

Bovine collagen induced systemic symptoms: antibody formation against bovine and human collagen. Bonnet C, et al. **J Rheumatol** 1996 Mar;23(3):545–7

17 beta-estradiol induced prostatitis in the rat is an autoimmune disease. Seethalakshmi L, et al. **J Urol** 1996 Nov;156(5):1838–42

Postchemotherapy connective tissue diseases--more than just rheumatism? [editorial] Amft N, et al. **Lupus** 1996 Aug; 5(4):255–6

Use of heterologous expression systems to study autoimmune drug-induced hepatitis. Lecoeur S, et al. **Methods Enzymol** 1996;272:76–85

Epitope mapping of human CYP1A2 in dihydralazine-induced autoimmune hepatitis. Belloc C, et al. **Pharmacogenetics** 1997 Jun;7(3):181–6

Cefuroxime-induced thrombocytopenia? Aitken P, et al. **Postgrad Med J** 1996 Dec;72(854):757–8

Drug-induced antisynthetase syndrome. Thickett DR, et al. **Postgrad Med J** 1997 Mar;73(857):165–6

Autoimmune hypoglycemia occurring in tiopronin-treated rheumatoid arthritis [letter] Le Dantec P, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):300–1

Simultaneous occurrence of human antibodies directed against fibrinogen, thrombin, and factor V following exposure to bovine thrombin: effects on blood coagulation, protein C activation and platelet function. Chouhan VD, et al. **Thromb Haemost** 1997 Feb;77(2):343–9

Autoimmunity caused by xenobiotics. Bigazzi PE. **Toxicology** 1997 Apr 11;119(1):1–21 (85 ref.)

Animal models in autoimmune disease in immunotoxicity assessment. Farine JC. **Toxicology** 1997 Apr 11; 119(1):29–35 (21 ref.)

Current trends in drug-induced autoimmunity. Uetrecht JP. **Toxicology** 1997 Apr 11;119(1):37–43 (41 ref.)

Drug-induced autoimmunity: experience of the French pharmacovigilance system. Vial T, et al. **Toxicology** 1997 Apr 11;119(1):23–7 (26 ref.)

The lesions of cyclosporine-induced autoimmune disease can be equally well elicited by CD4 or CD8 effector T cells. Beijleveld LJ, et al. **Transplantation** 1996 Nov 27; 62(10):1468–76

Effect of in vivo rapamycin treatment on de novo T-cell development in relation to induction of autoimmune-like immunopathology in the rat. Damoiseaux JG, et al. **Transplantation** 1996 Oct 15;62(7):994–1001

Rifampicin-induced immune thrombocytopenia. Mehta YS, et al. **Tuber Lung Dis** 1996 Dec;77(6):558–62

Autoimmune reactions in patients with silicone breast implants [see comments] Zazgornik J, et al. **Wien Klin Wochenschr** 1996 Dec 27;108(24):781–7. Comment in: Wien Klin Wochenschr 1996 Dec 27;108(24):773–4.

[Minocycline in Acne--an autoimmune disease-like syndrome as a side effect] Jagusch W, et al. **Hautarzt** 1996 Dec;47(12):936 **(Ger)**

[Interferon therapy and autoimmunity] Fritzsch J, et al. **Med Klin** 1997 May 15;92(5):265–72 (102 ref.) (Eng. Abstr.) **(Ger)**

CLASSIFICATION

The multiple autoimmune syndromes (MAS) [letter; comment] Humbert P, et al. **Br J Dermatol** 1997 Mar; 136(3):468–9. Comment on: Br J Dermatol 1996 Jun;134(6):1138–40.

Present status of autoimmune hepatitis in Japan--correlating the characteristics with international criteria in an area with a high rate of HCV infection. Japanese National Study Group of Autoimmune Hepatitis. Toda G, et al. **J Hepatol** 1997 Jun;26(6):1207–12

COMPLICATIONS

Extramammary Paget's disease associated with autoimmune hemolytic anemia [letter] Okuyama R, et al. **Acta Derm Venereol** 1997 May;77(3):241

Associated autoimmune diseases following complete remission of myasthenia gravis [letter; comment] Ikeda K, et al. **Acta Neurol Scand** 1995 Dec;92(6):503–4. Comment on: Acta Neurol Scand 1995 Mar;91(3):192–5.

Primary biliary cirrhosis associated with mixed type autoimmune hemolytic anemia and sicca syndrome: a case report and review of literature. Chen CY, et al. **Am J Gastroenterol** 1997 Sep;92(9):1547–9 (21 ref.)

Maternal characteristics and risk of severe neonatal thrombocytopenia and intracranial hemorrhage in pregnancies complicated by autoimmune thrombocytopenia. Payne SD, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):149–55

The use of intravenous immunoglobulin in recurrent pregnancy loss associated with combined alloimmune and autoimmune abnormalities. Kiprov DD, et al. **Am J Reprod Immunol** 1996 Oct;36(4):228–34

Paraneoplastic autoimmune xerostomia [letter] Folli F, et al. **Ann Intern Med** 1997 Jul 15;127(2):167–8

Severe malabsorption in autoimmune polyendocrinopathy-candidosis-ectodermal dystrophy syndrome successfully treated with immunosuppression. Padeh S, et al. **Arch Dis Child** 1997 Jun;76(6):532–4

Chronic bullous disease of childhood and a paecilomyces lung infection in chronic granulomatous disease. Sillevis Smitt JH, et al. **Arch Dis Child** 1997 Aug;77(2):150–2

IgA-epidermolysis bullosa acquisita in a child resulting in blindness. Caux F, et al. **Br J Dermatol** 1997 Aug; 137(2):270–5

Linear IgA disease and ulcerative colitis. Paige DG, et al. **Br J Dermatol** 1997 May;136(5):779–82

Diseases associated with dermatitis herpetiformis. Reunala T, et al. **Br J Dermatol** 1997 Mar;136(3):315–8

Linear IgA disease in a patient with bladder carcinoma. Ródenas JM, et al. **Br J Dermatol** 1997 Feb;136(2):257–9 (26 ref.)

Autoimmune autonomic failure in a patient with myeloma-associated Shy-Drager syndrome. Goldstein DS, et al. **Clin Auton Res** 1996 Feb;6(1):17–21

Cicatricial pemphigoid with severe laryngeal involvement necessitating tracheostomy (laryngeal cicatricial pemphigoid). Gaspar ZS, et al. **Clin Exp Dermatol** 1996 May;21(3):209–10

Autoimmune thyroid disease in systemic lupus erythematosus and Sjögren's syndrome. Scofield RH. **Clin Exp Rheumatol** 1996 May-Jun;14(3):321–30 (100 ref.)

Rheumatologic manifestations of HIV infections. Kaye BR. **Clin Rev Allergy Immunol** 1996-97 Winter;14(4):385–416 (274 ref.)

Sjögren's syndrome associated with autoimmune hepatitis. A case report. Biasi D, et al. **Clin Rheumatol** 1997 Jun; 16(4):409–12

Systemic lupus erythmatosus associated with autoimmune hepatitis two cases with novel autoantibodies to transfer RNA-related antigens. Satoh T, et al. **Clin Rheumatol** 1997 May;16(3):305–9

Amicrobial pustular dermatosis of cutaneous folds associated with autoimmune disorders: a new entity? Marzano AV, et al. **Dermatology** 1996;193(2):88–93

Chronic hepatitis C and autoimmunity: good response to immunosuppressive treatment. Tran A, et al. **Dig Dis Sci** 1997 Apr;42(4):778–80

Non infective colitis in infancy: evidence in favour of minor immunodeficiency in its pathogenesis. Ojuawo A, et al. **East Afr Med J** 1997 Apr;74(4):233–6

Resistance to activated protein C: arterial thrombosis associated with autoimmune features. Yossepowitch O, et al. **Eur J Med Res** 1997 Aug 28;2(8):355–7

Pulmonary B-cell non-Hodgkin's lymphoma associated with autoimmune disorders: a clinicopathological review of six cases. Nicholson AG, et al. **Eur Respir J** 1996 Oct; 9(10):2022–5

Severe bleeding due to acquired hypoprothrombinemia-lupus anticoagulant syndrome. Case report and review of literature. Vivaldi P, et al. **Haematologica** 1997 May-Jun; 82(3):345–7 (26 ref.)

Cardiopulmonary by-pass in a patient with acquired C1 inhibitor deficiency. Castelli R, et al. **Int J Artif Organs** 1997 Mar;20(3):175–7

An HTLV-I carrier with Graves' disease followed by uveitis: isolation of HTLV-I from thyroid tissue. Kubonishi I, et al. **Int J Hematol** 1997 Aug;66(2):233–7

Oral squamous cell carcinoma in a young person with candidosis endocrinopathy syndrome: a case report. Firth NA, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):42–4

Stiff-man syndrome associated with antecedent myasthenia gravis and organ-specific autoimmunopathy. Aso Y, et al. **Intern Med** 1997 Apr;36(4):308–11

Antiphospholipid syndrome complicated by thrombosis of the superior mesenteric artery, co-existence of smooth muscle hyperplasia. Kojima E, et al. **Intern Med** 1997 Jul; 36(7):528–31

Myeloperoxidase-specific anti-neutrophil cytoplasmic autoantibodies -- related scleroderma renal crisis treated with double-filtration plasmapheresis. Omote A, et al. **Intern Med** 1997 Jul;36(7):508–13

Rapidly progressive interstitial lung disease associated with dermatomyositis responding to intravenous cyclophosphamide pulse therapy [see comments] Shinohara T, et al. **Intern Med** 1997 Jul;36(7):519–23. Comment in: Intern Med 1997 Jul;36(7):448–9.

Thrombocytopenia as a sensitive marker of immunologic activity in a patient with autoimmune chronic active hepatitis. Persico M, et al. **Ital J Gastroenterol** 1996 Jul-Aug;28(6):340–2

Infertility in women with pemphigus vulgaris and other autoimmune diseases. Ouahes N, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):383–7

II. Adrenal cortex and steroid 21-hydroxylase autoantibodies in children with organ-specific autoimmune diseases: markers of high progression to clinical Addison's disease. Betterle C, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):939–42

I. Adrenal cortex and steroid 21-hydroxylase autoantibodies in adult patients with organ-specific autoimmune diseases: markers of low progression to clinical Addison's disease. Betterle C, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):932–8

Relationship between breast cancer and thyroid disease: relevance of autoimmune thyroid disorders in breast malignancy. Giani C, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):990–4

Mild clinical expression of myasthenia gravis associated with autoimmune thyroid diseases. Marinó M, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):438–43

Celiac sprue, idiopathic thrombocytopenic purpura, and hepatic granulomatous disease. An autoimmune linkage? Kahn O, et al. **J Clin Gastroenterol** 1996 Oct;23(3):214–6

Prolonged intrahepatic cholestasis in acute-onset, severe autoimmune hepatitis. Motoo Y, et al. **J Gastroenterol** 1997 Jun;32(3):410–3

Autoimmune hepatitis type 2 and hepatitis C virus infection: study of HLA antigens. Jurado A, et al. **J Hepatol** 1997 May;26(5):983–91

Nonrheumatoid IgM in human hepatitis C virus-associated type II cryoglobulinemia recognize mimotopes of the CD4-like LAG-3 protein. Mecchia M, et al. **J Immunol** 1996 Oct 15;157(8):3727–36

Sensorineural hearing loss and ulcerative colitis. Kumar BN, et al. **J Laryngol Otol** 1997 Mar;111(3):277–8

Autoimmune liver disease and sickle cell anemia in children: a report of three cases. Chuang E, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr;19(2):159–62

Can infection result in OCD? [news] **J Psychosoc Nurs Ment Health Serv** 1997 Jul;35(7):10

Carpal tunnel syndrome as a herald of autoimmune rheumatic disorders [letter; comment] Dodds WN. **J R Soc Med** 1997 Jun;90(6):359–60. Comment on: J R Soc Med 1997 Apr;90(4):216–7.

Carpal tunnel syndrome as a herald of autoimmune rheumatic disorders [see comments] Pal B. **J R Soc Med** 1997 Apr; 90(4):216–7. Comment in: J R Soc Med 1997 Jun;90(6):359–60.

Danazol for systemic lupus erythematosus with refractory autoimmune thrombocytopenia or Evans' syndrome. Cervera H, et al. **J Rheumatol** 1995 Oct;22(10):1867–71

The international autoimmune hepatitis score in chronic hepatitis C. Dickson RC, et al. **J Viral Hepat** 1997 Mar; 4(2):121–8

Autonomic nerve dysfunction in systemic lupus erythematosus: evidence for a mild involvement. Altomonte L, et al. **Lupus** 1997;6(5):441–4

Systemic lupus erythematosus with acanthosis nigricans, hyperpigmentation, and insulin receptor antibody. Baird JS, et al. **Lupus** 1997;6(3):275–8

Pulmonary hemorrhage in systemic lupus erythematosus. Barile LA, et al. **Lupus** 1997;6(5):445–8

Transverse myelopathy in SLE: clinical features and functional outcomes. Chan KF, et al. **Lupus** 1996 Aug; 5(4):294–9 (13 ref.)

Photosensitivity in systemic lupus erythematosus: laboratory testing of ARA/ACR definition. Doria A, et al. **Lupus** 1996 Aug;5(4):263–8

Antiphospholipid antibodies and retinal vascular disease. Dunn JP, et al. **Lupus** 1996 Aug;5(4):313–22

Acinetobacter pericarditis with tamponade in a patient with systemic lupus erythematosus. Lam SM, et al. **Lupus** 1997; 6(5):480–3 (13 ref.)

Elevated levels of anticardiolipin antibodies and epilepsy in lupus patients [see comments] Liou HH, et al. **Lupus** 1996 Aug;5(4):307–12. Comment in: Lupus 1997;6(5):486.

Factor V Arg506-->Gln mutation in patients with antiphospholipid antibodies. Montaruli B, et al. **Lupus** 1996 Aug;5(4):303–6

Osteonecrosis in systemic lupus erythematosus, steroid-induced or a lupus-dependent manifestation? Rascu A, et al. **Lupus** 1996 Aug;5(4):323–7

Autoimmune aberration in sudden sensorineural hearing loss: association with anti-cardiolipin antibodies. Toubi E, et al. **Lupus** 1997;6(6):540–2

Lupus and cerebrovascular accidents [clinical conference] Ware AE, et al. **Lupus** 1997;6(5):420–4

Glutamate decarboxylase autoimmunity and growth hormone secretion in type I diabetes mellitus. Giustina A, et al. **Metabolism** 1997 Apr;46(4):382–7

Lupus-like autoimmune disease associated with silicosis. Wilke RA, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1835–8

AMA-negative immunocholangitis and chronic pancreatitis: a case report [letter] Gates LK Jr. **Pancreas** 1997 Apr; 14(3):311–3

Acquired high titre factor VIII inhibitor with underlying polyarteritis nodosa. Snowden JA, et al. **Pathology** 1997 May;29(2):221–3

Autoimmune disorders associated with hepatitis C. Marcellin

P, et al. **Prog Liver Dis** 1995;13:247–67 (178 ref.)
Thrombotic syndromes and autoimmune diseases. Fessler BJ. **Rheum Dis Clin North Am** 1997 May;23(2):461–79 (180 ref.)
Pulmonary hypertension in systemic autoimmune disease. Gurubhagavatula I, et al. **Rheum Dis Clin North Am** 1997 May;23(2):365–94 (97 ref.)
Inflammatory cardiomyopathy. The controversy of diagnosis and management. James KB, et al. **Rheum Dis Clin North Am** 1997 May;23(2):333–43 (53 ref.)
Type 2 autoimmune hepatitis and hepatitis C viraemia. Leri O, et al. **Riv Eur Sci Med Farmacol** 1996 Jan–Feb;18(1):3–6
Association of splenic lymphoma with villous lymphocytes and primary biliary cirrhosis in a man [letter] [corrected and republished letter originally printed in Sangre (Barc) 1996 Feb;41(1):71] de Figueiredo M, et al. **Sangre (Barc)** 1996 Jun;41(3):262–3
Orchitis due to vasculitis in autoimmune diseases. Pannek J, et al. **Scand J Rheumatol** 1997;26(3):151–4 (40 ref.)
Histomorphological aspects of the development of thyroid autoimmune diseases: consequences for our understanding of endocrine ophthalmopathy. Delemarre FG, et al. **Thyroid** 1996 Aug;6(4):369–77 (62 ref.)
A patient with Graves' disease, myasthenia gravis, and polymyositis. Kobayashi T, et al. **Thyroid** 1997 Aug; 7(4):631–2
The development of ischemic heart disease in relation to autoimmune thyroid disease in a 20-year follow-up study of an English community. Vanderpump MP, et al. **Thyroid** 1996 Jun;6(3):155–60
Outcome of kidney transplantation in patients with systemic autoimmune diseases. Kliem V, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):957–8
Bronchiolitis obliterans in ataxia-telangiectasia. Ito M, et al. **Virchows Arch** 1997 Feb;430(2):131–7
[Neonatal diabetes mellitus associated with an autoimmune disease] Finel E, et al. **Arch Pediatr** 1996 Aug;3(8):782–4 (Eng. Abstr.) **(Fre)**
[Sensory neuronopathy associated with chronic autoimmune hepatitis (letter)] Magy L, et al. **Rev Neurol (Paris)** 1997 Feb;155(1):70–2 **(Fre)**
[Immunogenic hyperthyroidism with hyperdynamic heart failure and early cirrhotic transformation of the liver] Fischer MR, et al. **Dtsch Med Wochenschr** 1997 Mar 14; 122(11):323–7 (Eng. Abstr.) **(Ger)**
[Acute necrotizing capillaritis in an adolescent dying from a a Goodpasture-like pulmonary-renal syndrome] Maresi E, et al. **Pathologica** 1995 Dec;87(6):666–71 (Eng. Abstr.) **(Ita)**
[An autopsy case of anti-neutrophil cytoplasmic antibodies associated vasculitis accompanied by autoimmune hepatitis and hepatocellular carcinoma] Suwa A, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Apr;20(2):117–25 (Eng. Abstr.) **(Jpn)**
[A case of multiple gastric carcinoid tumors associated with type A gastritis, diabetes insipidus and Hashimoto's disease] Fuse K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr; 94(4):261–7 **(Jpn)**
[A case of double cancer, cholangiocellular and hepatocellular carcinoma associated with autoimmune hepatitis] Kanemasa H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):915–20 **(Jpn)**
[A case of hepatocellular carcinoma associated with autoimmune hepatitis and increased scintigraphy of liver accumulation] Niki S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):220–4 **(Jpn)**
[Associated autoimmune hepatitis and chronic hepatitis C virus infection: diagnostic and therapeutic criteria (letter)] Rodrigo Sáez L, et al. **Gastroenterol Hepatol** 1997 Jan; 20(1):43–4 **(Spa)**
[Takayasu arteritis associated with endocrine and autoimmune disease: report of 2 cases] Fernández Rodríguez A, et al. **Med Clin (Barc)** 1997 May 17; 108(19):759 **(Spa)**
[Systemic lupus erythematosus and the central nervous system] Rojas E, et al. **Rev Alerg** 1993 Mar–Apr;40(2):46–9 (49 ref.) (Eng. Abstr.) **(Spa)**
[Allergic diseases and infection with human immunodeficiency virus (HIV)–AIDS in pediatric patients] Linnemann de Martínez DL, et al. **Rev Alerg Mex** 1997 Mar–Apr;44(2):55–9 (21 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Autoimmune chronic pancreatitis simulating pancreatic lymphoma. Horiuchi A, et al. **Am J Gastroenterol** 1996 Dec;91(12):2607–9
Relapsing polychondritis in association with Crohn's disease. Touma DJ, et al. **Am J Otolaryngol** 1996 Nov–Dec; 17(6):424–6 (14 ref.)
Identification of children with pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections by a marker associated with rheumatic fever. Swedo SE, et al. **Am J Psychiatry** 1997 Jan;154(1):110–2
Epidermolysis bullosa acquisita in childhood. Callot-Mellot C, et al. **Arch Dermatol** 1997 Sep;133(9):1122–6 (25 ref.)
Diagnostic value of indirect immunofluorescence on sodium chloride-split skin in differential diagnosis of subepidermal autoimmune bullous dermatoses [see comments] Ghohestani RF, et al. **Arch Dermatol** 1997 Sep; 133(9):1102–7. Comment in: Arch Dermatol 1997 Sep;133(9):1158–60.
The accuracy of indirect immunofluorescence on sodium chloride-split skin in differentiating subepidermal bullous diseases [editorial; comment] Mutasim DF. **Arch Dermatol** 1997 Sep;133(9):1158–60 (23 ref.). Comment on: Arch Dermatol 1997 Sep;133(9):1102–7.
Usefulness of procalcitonin for differentiation between activity of systemic autoimmune disease (systemic lupus erythematosus/systemic antineutrophil cytoplasmic antibody-associated vasculitis) and invasive bacterial infection. Eberhard OK, et al. **Arthritis Rheum** 1997 Jul; 40(7):1250–6
Measuring soluble adhesion molecules [letter; comment] Osterland CK. **Clin Diagn Lab Immunol** 1997 Jul;4(4):496–7 . Comment on: Clin Diagn Lab Immunol 1997 May;4(3):241–6.
Autoantibodies--diagnostic, pathogenic and prognostic relevance. Conrad K, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):457–65
Autoantibodies: diagnostic fingerprints and etiologic perplexities. Fritzler MJ. **Clin Invest Med** 1997 Feb; 20(1):50–66 (174 ref.)
Autoimmune findings resembling connective tissue disease in a patient with Castleman's disease. Gohlke F, et al. **Clin Rheumatol** 1997 Jan;16(1):87–92 (22 ref.)
Current concepts and advances in clinical laboratory testing for autoimmune diseases. Hang LM, et al. **Crit Rev Clin Lab Sci** 1997 Jun;34(3):275–311 (132 ref.)
Clinical evaluation and treatment of immune-mediated inner ear disease. Welling DB. **Ear Nose Throat J** 1996 May; 75(5):301–5
Paraneoplastic syndrome simulating encephalitis in the course of testicular seminoma. Kałuża J, et al. **Folia Neuropathol** 1997;35(1):24–8
Systemic autoimmunity in LG/J mice. Peng SL, et al. **Immunol Lett** 1996 Nov;53(2–3):153–5
Use of recombinant proteins in the diagnosis of autoimmune connective tissue diseases. Galperin C, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):337–47 (103 ref.)
Nonscarring inflammatory epidermolysis bullosa acquisita with esophageal involvement and linear IgG deposits. Taniuchi K, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 2):320–2
Evidence for an overlap syndrome of autoimmune hepatitis and primary sclerosing cholangitis. Gohlke F, et al. **J Hepatol** 1996 Jun;24(6):699–705
Establishment of a novel radioligand assay using eukaryotically expressed cytochrome P4502D6 for the measurement of liver kidney microsomal type 1 antibody in patients with autoimmune hepatitis and hepatitis C virus infection. Ma Y, et al. **J Hepatol** 1997 Jun;26(6):1396–402
The clinical approach to thyroid disorders associated with childhood insulin dependent diabetes mellitus. Jefferson IG. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:95–100 (32 ref.)
IDDM and autoimmune thyroid disease in the pediatric age group. Lorini R, et al. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:89–94 (32 ref.)
Autoimmune enteropathy and villous atrophy in adults. Corazza GR, et al. **Lancet** 1997 Jul 12;350(9071):106–9
Hepatitis in a patient with SLE: is it autoimmune hepatitis? Kooy A, et al. **Neth J Med** 1996 Apr;48(4):128–32
Increasing the diagnostic yield of conjunctival biopsy in patients with suspected ocular cicatricial pemphigoid [see comments] Power WJ, et al. **Ophthalmology** 1995 Aug; 102(8):1158–63. Comment in: Ophthalmology 1996 Apr;103(4):543–4.
Type I autoimmune hepatitis is primarily a disease of later life. Parker DR, et al. **QJM** 1997 Apr;90(4):289–96
Characteristics and outcome of anti-glomerular basement membrane disease: a single-center experience. Daly C, et al. **Ren Fail** 1996 Jan;18(1):105–12
The diagnostic and prognostic significance of ANCA. Lesavre P. **Ren Fail** 1996 Sep;18(5):803–12 (30 ref.)
Autoantibodies and primary Sjögren's syndrome in a hypocitraturic stone population. Eriksson P, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):73–80
Anti asialoglycoprotein receptor antibodies and soluble interleukin-2 receptor levels as marker for inflammation in autoimmune hepatitis. Dejica D, et al. **Z Gastroenterol** 1997 Jan;35(1):15–21
Autoimmune hepatitis in inflammatory bowel disease: report of two unusual cases. Seibold F, et al. **Z Gastroenterol** 1997 Jan;35(1):29–32
[Diagnosis of autoimmune hepatitis] Manns MP, et al. **Dtsch Med Wochenschr** 1996 Nov 29;121(48):1503–7 (26 ref.) **(Ger)**
[Microscopic polyangiitis with eosinophilia--an overlap syndrome or separate disease entity? A case report and review of the literature] Weninger W, et al. **Hautarzt** 1997 May;48(5):332–8 (48 ref.) (Eng. Abstr.) **(Ger)**
[Cogan I syndrome. Audio-vestibular, ophthalmologic findings and therapy in 6 patients] Bohndorf M, et al. **HNO** 1996 Jun;44(6):302–6 (Eng. Abstr.) **(Ger)**
[Autoimmune diseases: frequent misdiagnosis] Seitz M. **Schweiz Med Wochenschr** 1997 Mar 1;127(9):349–54 (Eng. Abstr.) **(Ger)**
[Celiac disease today] Premate FM. **Clin Ter** 1996 Oct; 147(10):495–503 (104 ref.) (Eng. Abstr.) **(Ita)**
[Autoimmune thrombocytopenia and pregnancy] Anselmi Angeli R, et al. **Minerva Ginecol** 1996 Dec;48(12):557–63 (15 ref.) (Eng. Abstr.) **(Ita)**
[Present status of molecular immunological diagnosis--special reference to antinuclear antibodies] Hashimoto H. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):597–601 (8 ref.) **(Jpn)**
[A case of the aged man with acute onset autoimmune hepatitis] Tokita K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):371–5 **(Jpn)**
[Autoimmune enteropathy--difficulties in diagnosis and treatment] Popińska K, et al. **Pediatr Pol** 1996 Jan; 71(1):57–60 (Eng. Abstr.) **(Pol)**
[Laboratory diagnosis of lupus anticoagulant] Swadźba J, et al. **Pol Merkuriusz Lek** 1996 Nov;1(5):359–62 (Eng. Abstr.) **(Pol)**
[The effect of interleukin-2 on interferon production by human lymphocytes and the importance of this test in autoimmune diseases] Protasova SF, et al. **Vestn Ross Akad Med Nauk** 1996;(1):54–6 (Eng. Abstr.) **(Rus)**
[Autoimmune cholangitis or primary biliary cirrhosis without antimitochondrial antibodies?] Saló J, et al. **Gastroenterol Hepatol** 1997 Jan;20(1):5–10 (Eng. Abstr.) **(Spa)**
[Systemic autoimmune diseases with neurocutaneous alterations] Oliveros-Cid A, et al. **Rev Neurol** 1997 Sep; 25 Suppl 3:S294–308 (170 ref.) (Eng. Abstr.) **(Spa)**
[The hypothalamic pubertal syndrome] Liashuk PM, et al. **Lik Sprava** 1996 Oct–Dec;(10–12):3–9 **(Ukr)**

DRUG THERAPY

Pulsed dexamethasone for refractory idiopathic thrombocytopenic purpura [letter] Jantunen E, et al. **Am J Hematol** 1996 Dec;53(4):281–2
Leflunomide and malononitrilamides. Silva Júnior HT, et al. **Am J Med Sci** 1997 May;313(5):289–301 (101 ref.)
Pulse intravenous cyclophosphamide for treatment of autoimmune blistering disease. Is there an advantage over oral routes? [editorial;comment] Werth VP. **Arch Dermatol** 1997 Feb;133(2):229–30. Comment on: Arch Dermatol 1997 Feb;133(2):245.
Danazol in the treatment of a systemic lupus erythematosus (SLE)-like illness associated with deficiency of the fourth component of complement [letter] Petrovsky N. **Aust N Z J Med** 1997 Apr;27(2):189
Interphotoreceptor retinoid binding protein is a potent tolerogen in Lewis rat: suppression of experimental autoimmune uveoretinitis is retinal antigen specific. Laliotou B, et al. **Br J Ophthalmol** 1997 Jan;81(1):61–7
Management of immunobullous disorders: the clinical significance of interindividual variation in azathioprine metabolism [letter; comment] Anstey A. **Clin Exp Dermatol** 1996 May;21(3):247–8. Comment on: Clin Exp Dermatol 1995 May;29(3):189–201. Comment on: Clin Exp Dermatol 1995 Jul;20(4):283–93.
In vitro investigation of immunoglobulin treatment mechanisms in autoimmune diseases. Brand A, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S27–30 (6 ref.)
Intravenous immunoglobulin therapy for autoimmune diabetes mellitus. Colagiuri S, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S93–7
Cyclosporine A shows immunosuppressor activity on T lymphocytes from the peripheral blood and synovial fluid of patients with autoimmune arthritis. Guillen C, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):145–53
Immunoglobulins in children with autoimmune diabetes mellitus. Heinze E. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S99–102 (16 ref.)
Experience with immunoglobulins in thyroid autoimmunity. Lecomte P, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S103–7 (5 ref.)
Successful treatment of autoimmune neutropenia with recombinant human granulocyte-colony stimulating factor (R-metHuG-CSF). Krishnan K, et al. **Clin Lab Haematol** 1997 Jun;19(2):105–9
Vitamin D analogues in insulin-dependent diabetes mellitus and other autoimmune diseases: a therapeutic perspective. Mauricio D, et al. **Diabetes Metab Rev** 1996 Apr; 12(1):57–68 (87 ref.)
Autoimmune pancreatitis as a new clinical entity. Three cases of autoimmune pancreatitis with effective steroid therapy. Ito T, et al. **Dig Dis Sci** 1997 Jul;42(7):1458–68
A novel histological lesion in glucocorticoid-responsive chronic hepatitis. Pratt DS, et al. **Gastroenterology** 1997 Aug;113(2):664–8
Azathioprine and 6-mercaptopurine and autoimmune hepatitis [letter] Yarze JC, et al. **Gastroenterology** 1996 Jun; 110(6):2027
Treatment of autoimmune hepatitis. Johnson PJ. **Gut** 1997 Jul;41(1):3–4
Molecular mimicry as a therapeutic approach for an autoimmune disease: oral treatment of uveitis-patients with an MHC-peptide crossreactive with autoantigen--first results. Thurau SR, et al. **Immunol Lett** 1997 Jun 1; 57(1–3):193–201
A novel antifolate, MX-68, inhibits the development of autoimmune disease in MRL/lpr mice. Mihara M, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):454–9
Cyclophosphamide pulse therapy for rapidly progressive interstitial pneumonia in dermatomyositis. A new possibility for rescue? [editorial;comment] Takizawa H, et al. **Intern Med** 1997 Jul;36(7):448–9. Comment on: Intern Med 1997 Jul;36(7):519–23.

Mechanisms of action of intravenous immune serum globulin in autoimmune and inflammatory diseases. Ballow M. **J Allergy Clin Immunol** 1997 Aug;100(2):151–7 (70 ref.)
Long–term remission in selected patients with pemphigus vulgaris treated with cyclosporine. Mobini N, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):264–6
Successful glucocorticoid treatment for patients with abnormal autoimmunity on in vitro fertilization and embryo transfer. Ando T, et al. **J Assist Reprod Genet** 1996 Nov; 13(10):776–81
In vivo mechanism by which leflunomide controls lymphoproliferative and autoimmune disease in MRL/MpJ–lpr/lpr mice. Xu X, et al. **J Immunol** 1997 Jul 1;159(1):167–74
Suppression of experimental autoimmune neuritis by phosphodiesterase inhibitor pentoxifylline. Constantinescu CS, et al. **J Neurol Sci** 1996 Nov;143(1–2):14–8
Increased apoptosis of T lymphocytes and macrophages in the central and peripheral nervous systems of Lewis rats with experimental autoimmune encephalomyelitis treated with dexamethasone. Nguyen KB, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):58–69
The effect of OM–89 (Subreum) on the murine model of systemic lupus erythematosus MRL–lpr/lpr. Dhaher YY, et al. **Lupus** 1997;6(5):436–40
Effect of cyclophosphamide on leukocytic infiltration in the brain of MRL/lpr mice. Farrell M, et al. **Lupus** 1997; 6(3):268–74
Anti–malarial drugs: possible mechanisms of action in autoimmune disease and prospects for drug development. Fox R. **Lupus** 1996 Jun;5 Suppl 1:S4–10 (41 ref.)
Side–effects of intravenous cyclophosphamide pulse therapy. Martin F, et al. **Lupus** 1997;6(3):254–7 (16 ref.)
Treatment with ciliary neurotrophic factor does not improve regeneration in experimental autoimmune neuritis of the Lewis rat. Gold R, et al. **Muscle Nerve** 1996 Sep; 19(9):1177–80
Methotrexate management of immune–mediated cochleovestibular disorders. Sismanis A, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):146–52
Treatment of multiple sclerosis and other autoimmune diseases with cladribine. Beutler E, et al. **Semin Hematol** 1996 Jan;33(1 Suppl 1):45–52
Leflunomide, an immunorestoring drug for the therapy of autoimmune disorders, especially rheumatoid arthritis. Bartlett RR, et al. **Transplant Proc** 1996 Dec;28(6):3074–8 (28 ref.)
Autoimmune haemolytic anaemia responding to anti–tuberculous treatment. Siribaddana SH, et al. **Trop Doct** 1997 Oct;27(4):243–4
Autoimmune hepatitis in children. Raghuveera AL, et al. **W V Med J** 1996 Nov–Dec;92(6):316–9
Cyclophosphamide as alternative immunosuppressive therapy for autoimmune hepatitis—report of three cases. Kanzler S, et al. **Z Gastroenterol** 1997 Jul;35(7):571–8
[Autoimmune hepatitis treated with cyclosporin revealed by acute hepatocellular failure] Launay V, et al. **Arch Pediatr** 1997 Jan;4(1):40–3 (Eng. Abstr.) **(Fre)**
[Conventional immunosuppression of chronic inflammatory systemic diseases] Gross WL, et al. **Internist (Berl)** 1997 Jun;38(6):520–31 (62 ref.) **(Ger)**
[Cyclosporin in treatment of glomerular diseases] Krieter DH, et al. **Internist (Berl)** 1996 Jan;37(1):84–8 (34 ref.) **(Ger)**
[Etiopathogenetic differentiation of inflammatory cardiomyopathy. Immunosuppression and immunomodulation] Kühl U, et al. **Internist (Berl)** 1997 Jun;38(6):590–601 (105 ref.) **(Ger)**
[Immunosuppressive therapeutic modalities in chronic polyarthritis] Lorenz HM, et al. **Internist (Berl)** 1997 Jun; 38(6):532–40 (32 ref.) **(Ger)**
[Immunosuppressive therapy in interstitial lung diseases and immunologically–induced pneumonitis] Müller–Quernheim J, et al. **Internist (Berl)** 1997 Jun;38(6):553–61 (31 ref.) **(Ger)**
[General principles of immunosuppressive therapy of diseases of rheumatic origin] Peter HH. **Internist (Berl)** 1997 Jun; 38(6):514–9 (20 ref.) **(Ger)**
[Immunosuppressive therapy of autoimmune liver diseases] Rambusch EG, et al. **Internist (Berl)** 1997 Jun;38(6):574–81 (51 ref.) **(Ger)**
[On the topic of cyclosporin] Thema Z. **Internist (Berl)** 1996 Jan;37(1):83 **(Ger)**
[Positive effect of ursodeoxycholic acid on liver enzymes in autoimmune hepatitis with little activity—a pilot study] Janowitz P, et al. **Leber Magen Darm** 1996 Nov;26(6):310–3 (Eng. Abstr.) **(Ger)**
[Pneumocystis carinii and aspergillus pneumonia in immunosuppression in rapidly progressing glomerulonephritis of the anti–glomerular basement membrane type] Späth M, et al. **Med Klin** 1996 Sep 15; 91(9):603–6 **(Ger)**
[Therapeutic use of monoclonal antibodies] Baron D. **Naturwissenschaften** 1997 May;84(5):189–98 (7 ref.) (Eng. Abstr.) **(Ger)**
[Cyclosporin–A therapy in autoimmune diseases] Patakfalvi A. **Orv Hetil** 1996 Sep 1;137(35):1921–7 (50 ref.) (Eng. Abstr.) **(Hun)**
[Immunomodulating therapy in insulin–dependent diabetes mellitus: problems and new prospects] Galenok VA, et al. **Ter Arkh** 1995;67(12):80–4 (66 ref.) **(Rus)**
[Thymogen in the treatment of type–1 diabetes mellitus] Zhuk EA, et al. **Ter Arkh** 1996;68(10):12–4 (Eng. Abstr.) **(Rus)**
[The clinico–immunological validation of a differentiated approach to the use of corticosteroids in treating S–dependent uveoretinitis] Slepova OS, et al. **Vestn Oftalmol** 1996 Apr–Jun;112(2):45–7 (Eng. Abstr.) **(Rus)**
[Autoimmune hepatitis: when should treatment be discontinued?] Marín López E, et al. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S76–81 **(Spa)**

EMBRYOLOGY

Effects of altered prenatal hormonal environment on expression of autoimmune disease in NZB/NZW mice. Walker SE, et al. **Environ Health Perspect** 1996 Aug;104 Suppl 4:815–21

ENZYMOLOGY

Expression of the gastric H/K–ATPase alpha–subunit in the thymus may explain the dominant role of the beta–subunit in the pathogenesis of autoimmune gastritis. Alderuccio F, et al. **Autoimmunity** 1997;25(3):167–75
Expression of inducible nitric oxide synthase in rat experimental autoimmune myocarditis with special reference to changes in cardiac hemodynamics. Hirono S, et al. **Circ Res** 1997 Jan;80(1):11–20
Increased alkaline phosphatase isoforms in autoimmune diseases. Hanna AN, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1357–64
Alterations in activity of protein tyrosine phosphatase SH–PTP1 in autoimmune MRL/mpj–lpr/lpr mice. Matsuda A, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):329–33
Clinical and serologic manifestations of autoimmune disease in MRL–lpr/lpr mice lacking nitric oxide synthase type 2. Gilkeson GS, et al. **J Exp Med** 1997 Aug 4;186(3):365–73
Biochemistry and autoimmune response to the 2–oxoacid dehydrogenase complexes in primary biliary cirrhosis. Bassendine MF, et al. **Semin Liver Dis** 1997 Feb;17(1):49–60 (99 ref.)

EPIDEMIOLOGY

Autoimmunity and congenital permanent diabetes mellitus [letter; comment] Ivarsson SA, et al. **Acta Paediatr** 1997 Jun;86(6):671. Comment on: Acta Paediatr 1996 Dec;85(12):1415–7.
Maternal characteristics and risk of severe neonatal thrombocytopenia and intracranial hemorrhage in pregnancies complicated by autoimmune thrombocytopenia. Payne SD, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):149–55
Comparative screening for thyroid disorders in old age in areas of iodine deficiency, long–term iodine prophylaxis and abundant iodine intake. Szabolcs I, et al. **Clin Endocrinol (Oxf)** 1997 Jul;47(1):87–92
Epidemiology and estimated population burden of selected autoimmune diseases in the United States. Jacobson DL, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):223–43 (313 ref.)
Prior immunity–related medical conditions and oesophageal cancer risk: a population–based case–control study in Shanghai. Dai Q, et al. **Eur J Cancer Prev** 1997 Apr; 6(2):152–7
Predisposing factors to autoimmune disease. Lahita RG. **Int J Fertil Womens Med** 1997 Mar–Apr;42(2):115–9 (14 ref.)
Rheumatoid arthritis associated with ulcerative colitis. Adachi Y, et al. **J Gastroenterol** 1996 Aug;31(4):590–5 (26 ref.)
An active focus of high prevalence of fogo selvagem on an Amerindian reservation in Brazil. Cooperative Group on Fogo Selvagem Research. Hans–Filho G, et al. **J Invest Dermatol** 1996 Jul;107(1):68–75
Low frequency of autoimmune disease in tropical Africa [letter; comment] Adebajo AO. **Lancet** 1997 Feb 1; 349(9048):361–2. Comment on: Lancet 1996 Nov 30;348(9040):1492–4.
Does malarial tolerance, through nitric oxide, explain the low incidence of autoimmune disease in tropical Africa? [see comments] Clark IA, et al. **Lancet** 1996 Nov 30; 348(9040):1492–4. Comment in: Lancet 1997 Feb 1;349(9048):361–2.
Anti–endothelial cell antibodies in systemic autoimmune diseases: prevalence and clinical significance. Navarro M, et al. **Lupus** 1997;6(6):521–6
Family history of autoimmune diseases in psychosis. Gilvarry CM, et al. **Schizophr Res** 1996 Mar;19(1):33–40

ETIOLOGY

Autoimmunity to the thyroid stimulating hormone receptor. Patibandla SA, et al. **Adv Neuroimmunol** 1996;6(4):347–57 (57 ref.)
Autoimmune vasculitis and aortic stenosis in aspirin–induced asthma (AIA). Szczeklik A, et al. **Allergy** 1997 Mar; 52(3):352–4
A case series of transplant recipients who despite immunosuppression developed inflammatory bowel disease. Riley TR, et al. **Am J Gastroenterol** 1997 Feb;92(2):279–82
Autoimmune hepatitis type 1 after measles. Vento S, et al. **Am J Gastroenterol** 1996 Dec;91(12):2618–20
Autoimmune thrombocytopenia and hepatitis C virus infection [letter] Linares M, et al. **Am J Hematol** 1996 Dec; 53(4):284
Immune thrombocytopenia in postpolythemic myelofibrosis. Schreiber ZA. **Am J Hematol** 1997 Feb;54(2):146–8
Encephalitogenic potential of myelin basic protein–specific T cells isolated from normal rhesus macaques. MeinL E, et al. **Am J Pathol** 1997 Feb;150(2):445–53
A gene transfer system establishes interleukin–6 neither promotes nor suppresses renal injury. Naito T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F603–9
Microbial antigens can elicit autoantibody production. A potential pathway to autoimmune disease. Kuo P, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:230–6 (29 ref.)
Induction of autoimmunity. A role for the idiotypic network. Shoenfeld Y, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:342–9 (26 ref.)
Pathogenesis and therapy of neuropathies associated with monoclonal gammopathies. Latov N. **Ann Neurol** 1995 May;37 Suppl 1:S32–42 (157 ref.)
An outcome analysis of 100 women after explantation of silicone gel breast implants. Peters W, et al. **Ann Plast Surg** 1997 Jul;39(1):9–19
Thymic carcinoma with autoimmune syndrome: successful treatment with weekly infusional high–dose 5–fluorouracil and leucovorin. Hsu CH, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1331–4
Silicone breast implants—where have we been and where are we now? [editorial; comment] [see comments] Gatenby PA. **Aust N Z J Med** 1996 Jun;26(3):341–2. Comment on: Aust N Z J Med 1996 Jun;26(3):349–55. Comment in: Aust N Z J Med 1996 Dec;26(6):858.
Beta–endorphin and the immune system—possible role in autoimmune diseases. Mørch H, et al. **Autoimmunity** 1995; 21(3):161–71 (96 ref.)
Late onset haemolysis and red cell autoimmunisation after allogeneic bone marrow transplant. Chen FE, et al. **Bone Marrow Transplant** 1997 Mar;19(5):491–5 (23 ref.)
Fatal autoimmune pancytopenia following bone marrow transplantation for aplastic anaemia. De Lord C, et al. **Bone Marrow Transplant** 1996 Jul;18(1):237–9
Multiple autoimmune events after autologous bone marrow transplantation. Lambertenghi–Deliliers GL, et al. **Bone Marrow Transplant** 1997 Apr;19(7):745–7
Cancer–induced retinal hypersensitivity. Thirkill CE. **Br J Biomed Sci** 1996 Sep;53(3):227–34 (110 ref.)
Autoimmune encephalopathy after treatment of thymoma–associated myasthenia gravis. Maher D, et al. **Br J Clin Pract** 1996 Oct–Nov;50(7):406–7
Adverse reactions to food constituents: allergy, intolerance, and autoimmunity. Kitts D, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):241–54 (112 ref.)
Autoimmune paraneoplastic cerebellar degeneration in ovarian carcinoma patients treated with plasmapheresis and immunoglobulin. A case report. David YB, et al. **Cancer** 1996 Nov 15;78(10):2153–6
Autoimmune phenomena in patients receiving alpha–interferon therapy [letter] I nanç SE, et al. **Cancer Invest** 1996;14(6):642–3
Th1 and Th2 cells in autoimmunity. Druet P, et al. **Chem Immunol** 1996;63:138–70 (67 ref.)
Low–molecular–weight tumor necrosis factor receptor p55 controls induction of autoimmune heart disease [see comments] Bachmaier K, et al. **Circulation** 1997 Feb 4; 95(3):655–61. Comment in: Circulation 1997 Feb 4;95(3):551–2.
Induction of autoimmune myocarditis in interleukin–2–deficient mice. Grässl G, et al. **Circulation** 1997 Apr 1;95(7):1773–6
Susceptibility to clinically manifest cyclosporine A (CsA)–induced autoimmune disease is associated with interferon–gamma (IFN–gamma)–producing CD45RC+RT6– T helper cells [published erratum appears in Clin Exp Immunol 1997 Jan;107(1):224] Beijleveld LJ, et al. **Clin Exp Immunol** 1996 Sep;105(3):486–96
Still's disease in a patient infected with human immunodeficiency virus type I. Antinori S, et al. **Clin Exp Rheumatol** 1995 Nov–Dec;13(6):759–61
dsDNA–, nucleohistone– and DNASE I–reactive T lymphocytes in patients affected by systemic lupus erythematosus: correlation with clinical disease activity [see comments] Filaci G, et al. **Clin Exp Rheumatol** 1996 Sep–Oct;14(5):543–50. Comment in: Clin Exp Rheumatol 1996 Sep–Oct;14(5):475–7.
131I dose–dependent thyroid autoimmune disorders in children living around Chernobyl. Vykhovanets EV, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):251–9
Virus–induced autoimmune disease. von Herrath MG, et al. **Curr Opin Immunol** 1996 Dec;8(6):878–85 (73 ref.)
Paraneoplastic nervous system syndromes. Jaeckle KA. **Curr Opin Oncol** 1996 May;8(3):204–8 (39 ref.)
MHC–derived peptides and the CD4+ T–cell repertoire: implications for autoimmune disease. Baum H, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):115–25 (68 ref.)
Indications of an autoimmune component in LP(a) associated disorders. Dahlén GH. **Eur J Immunogenet** 1994 Oct; 21(5):301–12
A possible involvement of Fas–Fas ligand signaling in the pathogenesis of murine autoimmune gastritis. Nishio A, et al. **Gastroenterology** 1996 Oct;111(4):959–67
Neuroautoimmunity: pathogenic implications for Alzheimer's

disease. Singh VK. **Gerontology** 1997;43(1–2):79–94 (82 ref.)
Autoimmune mediated thrombocytopenia associated with the use of interferon–alpha in chronic myeloid leukemia. Zuffa E, et al. **Haematologica** 1996 Nov–Dec;81(6):533–5
In vivo binding and hearing loss after intracochlear infusion of KHRI–3 antibody. Nair TS, et al. **Hear Res** 1997 May; 107(1–2):93–101
Inner ear DNA receptors in MRL/lpr autoimmune mice: potential 30 and 70 kDa link between autoimmune disease and hearing loss. Trune DR, et al. **Hear Res** 1997 Mar; 105(1–2):57–64
Postpericardiotomy syndrome. Prince SE, et al. **Heart Lung** 1997 Mar–Apr;26(2):165–8
Cytochromes P450 and uridine triphosphate–glucuronosyltransferases: model autoantigens to study drug–induced, virus–induced, and autoimmune liver disease. Manns MP, et al. **Hepatology** 1997 Oct; 26(4):1054–66 (147 ref.)
Elucidation of autoimmune disease mechanism based on testicular and ovarian autoimmune disease models. Tung KS. **Horm Metab Res** 1995 Dec;27(12):539–43 (38 ref.)
Autoimmune diseases: tracing the shared threads. Rose NR. **Hosp Pract (Off Ed)** 1997 Apr 15;32(4):147–54 (5 ref.)
Do DNA vaccines induce autoimmune disease? Mor G, et al. **Hum Gene Ther** 1997 Feb 10;8(3):293–300
The appearance of unusual phenotypic cells (CD4+ Mac–1+ class II+) in the liver of (NZW x BXSB)F1 mice is possibly an animal model for autoimmune hepatitis. Amoh Y, et al. **Immunobiology** 1997 Jun;197(1):31–43
How the immune system works and why it causes autoimmune diseases. Adams D. **Immunol Today** 1996 Jul; 17(7):300–2 (25 ref.)
Pathogenesis and immunotherapy of autoimmune diseases. Adorini L, et al. **Immunol Today** 1997 May;18(5):209–11
Estriol: a potent regulator of TNF and IL–6 expression in a murine model of endotoxemia. Zuckerman SH, et al. **Inflammation** 1996 Dec;20(6):581–97
Antigen receptor–mediated B cell death is blocked by signaling via CD72 or treatment with dextran sulfate and is defective in autoimmunity–prone mice. Nomura T, et al. **Int Immunol** 1996 Jun;8(6):867–75
Hepatitis B virus carrier status linked to autoimmune hepatitis. Murakami C, et al. **Intern Med** 1996 Jun; 35(6):468–71
Case study: an infection–triggered, autoimmune subtype of anorexia nervosa. Sokol MS, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1128–33
Involvement of peritoneal dendritic cells in the induction of autoimmune prostatitis. Correa SG, et al. **J Autoimmun** 1997 Apr;10(2):107–13
Experimental autoimmune uveitis and its relationship to clinical ocular inflammatory disease. Nussenblatt RB, et al. **J Autoimmun** 1996 Oct;9(5):575–85 (131 ref.)
Transplant–associated autoimmune mechanisms in human hepatitis C virus infection. Zucker K, et al. **J Clin Immunol** 1996 Jan;16(1):60–70
A novel polymorphism of FcgammaRIIIa (CD16) alters receptor function and predisposes to autoimmune disease. Wu J, et al. **J Clin Invest** 1997 Sep 1;100(5):1059–70
Thyrotropin receptor antibodies in parotid saliva. Tumilasci OR, et al. **J Endocrinol Invest** 1996 Jul–Aug;19(7):412–4
A disease–related rheumatoid factor autoantibody is not tolerized in a normal mouse: implications for the origins of autoantibodies in autoimmune disease. Hannum LG, et al. **J Exp Med** 1996 Oct 1;184(4):1269–78
GBV–C/HGV is not the major cause of autoimmune hepatitis. Heringlake S, et al. **J Hepatol** 1996 Dec; 25(6):980–4
Safe switch to beta–interferon treatment of chronic hepatitis C after alpha–interferon–induced autoimmune thrombocytopenia [letter] Tappero G, et al. **J Hepatol** 1996 Aug;25(2):270
Induction of tissue–specific autoimmune prostatitis with prostatic acid phosphatase immunization: implications for immunotherapy of prostate cancer. Fong L, et al. **J Immunol** 1997 Oct 1;159(7):3113–7
Mapping of a gene for the increased susceptibility of B1 cells to Mott cell formation in murine autoimmune disease. Jiang Y, et al. **J Immunol** 1997 Jan 15;158(2):992–7
Mouse complement receptors type 1 (CR1;CD35) and type 2 (CR2;CD21): expression on normal B cell subpopulations and decreased levels during the development of autoimmunity in MRL/lpr mice. Takahashi K, et al. **J Immunol** 1997 Aug 1;159(3):1557–69
Multiple sclerosis: an altered immune response or an altered stress response? van Noort JM. **J Mol Med** 1996 Jun; 74(6):285–96 (49 ref.)
Low dose interferon–alpha is safe in patients with myasthenia gravis [letter] Bolay H, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):302–3
Recurrent demyelinating transverse myelitis in a high titer HBs–antigen carrier. Matsui M, et al. **J Neurol Sci** 1996 Aug;139(2):235–7
Development of primary hypothyroidism with antithyroglobulin, antiperoxidase, and blocking–type thyrotropin receptor antibodies after radiation therapy for neuroblastoma. Kikawa Y, et al. **J Pediatr** 1996 Dec; 129(6):909–12 (19 ref.)
Characteristics of women with and without breast implants [letter] Stewart MW, et al. **JAMA** 1997 Sep 10; 278(10):818–9
Autoimmune hepatitis and adrenal insufficiency in an infant with human herpesvirus–6 infection [letter] Schmitt K, et al. **Lancet** 1996 Oct 5;348(9032):966
The complement system in chronic lymphocytic leukemia: a possible role in autoimmune manifestations. Lugassy G, et al. **Leuk Lymphoma** 1996 May;21(5–6):501–3
A new transmissible AIDS–like disease in mice induced by alloimmune stimuli. Ter–Grigorov VS, et al. **Nat Med** 1997 Jan;3(1):37–41
Recent advances in autoimmune liver diseases. Manns MP. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):575–7 (6 ref.)
Uveitogenic 28/30 kD and 43 kD polypeptides in pigment epithelial membranes of the retina. Broekhuyse RM, et al. **Ocul Immunol Inflamm** 1997 Mar;5(1):19–26
Role of the ICAM–1/LFA–1 pathway during the development of autoimmune dacryoadenitis in an animal model for Sjögren's syndrome. Takahashi M, et al. **Pathobiology** 1996;64(5):269–74
Aspects of the etiology, prediction, and prevention of insulin–dependent diabetes mellitus in childhood. Sperling MA. **Pediatr Clin North Am** 1997 Apr;44(2):269–84 (56 ref.)
The role of endogenous IL12 in the induction of Th1–cell–mediated autoimmune diseases. Adorini L, et al. **Res Immunol** 1995 Sep–Oct;146(7–8):645–51 (51 ref.)
Molecular pathogenesis of peripheral neuropathy. Trapp BD, et al. **Rev Neurol (Paris)** 1996 May;152(5):314–9 (48 ref.)
Smoking and immunity: an additional player in the mosaic of autoimmunity. George J, et al. **Scand J Immunol** 1997 Jan;45(1):1–6 (51 ref.)
Autoantibodies as chameleons [editorial] Williams RC Jr, et al. **Scand J Rheumatol** 1997;26(2):73–8 (57 ref.)
ALPS: an autoimmune human lymphoproliferative syndrome associated with abnormal lymphocyte apoptosis. Puck JM, et al. **Semin Immunol** 1997 Feb;9(1):77–84
Autoimmune protein S deficiency and deep vein thrombosis after chickenpox [letter] Peyvandi F, et al. **Thromb Haemost** 1996 Jan;75(1):212–3
Autoimmune hyperthyroidism occurring late after radioiodine treatment for volume reduction of large multinodular goiters. Huysmans AK, et al. **Thyroid** 1997 Aug;7(4):535–9
Animal models in autoimmune disease in immunotoxicity assessment. Farine JC. **Toxicology** 1997 Apr 11; 119(1):29–35 (21 ref.)
Visceral leishmaniasis presenting as autoimmune hepatitis in a two years old boy. Castagnola E, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):28
[Autoimmune polyneuropathy associated with hepatitis C] Andrès E, et al. **Ann Med Interne (Paris)** 1997; 148(3):289–90 **(Fre)**
[Hepatitis C virus and autoimmune hepatitis: coincidence or causal relationship?] Dienes HP, et al. **Verh Dtsch Ges Pathol** 1996;80:178–80 (Eng. Abstr.) **(Ger)**
[Apoptosis in the regulation of immune processes and in the pathogenesis of autoimmune diseases (see comments)] Müzes G, et al. **Orv Hetil** 1997 May 25;138(21):1315–20 (45 ref.) (Eng. Abstr.). Comment in: Orv Hetil 1997 Aug 24;138(34):2157. **(Hun)**
[Development of collagen vascular diseases and production of autoantibodies in HTLV–I env–pX transgenic rats] Yamazaki H. **Hokkaido Igaku Zasshi** 1996 May; 71(3):325–43 (Eng. Abstr.) **(Jpn)**
[A case of inflammatory pseudotumor of the lung with suppressed immune response in the patient with renal cell carcinoma after nephrectomy and administration of interferon] Fukushima M, et al. **Kyobu Geka** 1996 Jul; 49(7):595–8 (Eng. Abstr.) **(Jpn)**
[Superantigens and autoimmune diseases] Kaneoka H, et al. **Nippon Rinsho** 1997 Jun;55(6):1363–9 (34 ref.) (Eng. Abstr.) **(Jpn)**
[T cell tolerance and autoimmune disease] Kobayashi S. **Nippon Rinsho** 1997 Jun;55(6):1345–50 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Role of TCR V alpha 24 J alpha Q+ T cells in autoimmune diseases] Oishi Y, et al. **Nippon Rinsho** 1997 Jun; 55(6):1425–30 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Clonal deletion and clonal anergy as the mechanism of self–tolerance induction] Ota H, et al. **Nippon Rinsho** 1997 Jun;55(6):1331–6 (20 ref.) (Eng. Abstr.) **(Jpn)**
[The role of free radical processes in the development of autosensitization in ischemic heart disease] Afonina GB, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):52–4 (Eng. Abstr.) **(Rus)**
[Autoimmune liver diseases: the relation to other autoimmune pathology] Podymova SD, et al. **Ter Arkh** 1993;65(2):36–41 (41 ref.) (Eng. Abstr.) **(Rus)**
[Autoimmune hemolytic anemia in common variable immunodeficiency (letter) (published erratum appears in Sangre (Barc) 1996 Dec;41(6):486)] Andón Saavedra C, et al. **Sangre (Barc)** 1996 Oct;41(5):404–5 **(Spa)**
[Erythroblastopenia during recurrence of a thymoma associated with myasthenia gravis. Apropos of a new case] Montserrat I, et al. **Sangre (Barc)** 1996 Jun;41(3):249–52 (Eng. Abstr.) **(Spa)**

GENETICS

Immunoglobulin heavy chain variable region gene usage in human autoimmune diseases. Pascual V, et al. **Adv Exp Med Biol** 1995;386:133–9 (24 ref.)
Susceptibility to murine experimental autoimmune oophoritis is associated with genes outside the major histocompatibility complex (MHC). Nair S, et al. **Am J Reprod Immunol** 1996 Aug;36(2):107–10
Autoimmunity: pathogenetic aspects. Tzioufas AG, et al. **Ann Med Interne (Paris)** 1996;147(6):446–9 (23 ref.)
Clinical relevance of Fc gamma receptor polymorphisms. Rascu A, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:282–95 (76 ref.)
A genetic basis for autoimmune manifestations in the abdominal aortic aneurysm resides in the MHC class II locus DR–beta–1. Tilson MD, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:208–15
Immunogenetics and the cause of autoimmune disease. Baxter AG. **Autoimmunity** 1997;25(3):177–89 (67 ref.)
Cyclins and autoimmunity: cyclin B1 gene expression and restriction fragment length polymorphism in lupus–prone mice. Hsu HC, et al. **Autoimmunity** 1995;22(1):17–26
Skewed VH and V kappa gene family expression and pairing occurs among B lymphocytes in autoimmune motheaten mice. Saitoh Y, et al. **Autoimmunity** 1995;21(3):185–193
Leukocytes and organ–nonspecific autoantibodies in schizophrenics and their siblings: markers of vulnerability or disease? Zorrilla EP, et al. **Biol Psychiatry** 1996 Nov 1;40(9):825–33
Missense mutations in the Fas gene resulting in autoimmune lymphoproliferative syndrome: a molecular and immunological analysis. Bettinardi A, et al. **Blood** 1997 Feb 1;89(3):902–9
Central nervous system chemokine mRNA accumulation follows initial leukocyte entry at the onset of acute murine experimental autoimmune encephalomyelitis. Glabinski AR, et al. **Brain Behav Immun** 1995 Dec;9(4):315–30
A CTLA–4 gene polymorphism is associated with both Graves disease and autoimmune hypothyroidism. Kotsa K, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):551–4
B cells in systemic autoimmune disease: recent insights from Fas–deficient mice and men. Elkon KB, et al. **Curr Opin Immunol** 1996 Dec;8(6):852–9 (64 ref.)
Heritable factors distinguish two types of alopecia areata. Price VH, et al. **Dermatol Clin** 1996 Oct;14(4):679–89 (37 ref.)
Polymorphism of the tumour necrosis factor beta gene in multiple sclerosis and rheumatoid arthritis. Vandevyver C, et al. **Eur J Immunogenet** 1994 Oct;21(5):377–82
Autoimmune disease of exocrine organs in immunodeficient alymphoplasia mice: a spontaneous model for Sjögren's syndrome. Tsubata R, et al. **Eur J Immunol** 1996 Nov; 26(11):2742–8
The PML and PML/RARalpha domains: from autoimmunity to molecular oncology and from retinoic acid to arsenic. Andre C, et al. **Exp Cell Res** 1996 Dec 15;229(2):253–60
Transgenic mice models in autoimmunity—discussion. Rink L, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:46–8 (5 ref.)
Comparative analysis of the disease–associated complement C4 gene from the HLA–A1, B8, DR3 haplotype. Ulgiati D, et al. **Exp Clin Immunogenet** 1996;13(1):43–54
Allelic basis for HLA–encoded susceptibility to type 1 autoimmune hepatitis. Strettell MD, et al. **Gastroenterology** 1997 Jun;112(6):2028–35
Associations between alleles of the major histocompatibility complex and type 1 autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1997 Feb;25(2):317–23
HLA–C genes and susceptibility to type 1 autoimmune hepatitis. Strettell MD, et al. **Hepatology** 1997 Oct; 26(4):1023–6
An association in non–insulin–dependent diabetes mellitus subjects between susceptibility to retinopathy and tumor necrosis factor polymorphism. Hawrami K, et al. **Hum Immunol** 1996 Mar;46(1):49–54
Three HLA–DMB variants in Korean patients with autoimmune diseases. Kim TG, et al. **Hum Immunol** 1996 Mar;46(1):58–60
Systemic lupus erythematosus with nephritis is strongly associated with the TNFB*2 homozygote in the Korean population. Kim TG, et al. **Hum Immunol** 1996 Mar; 46(1):10–7
The role of HLA–DR–DR and HLA–DR–DP interactions in genetic susceptibility to rheumatoid arthritis. Perdriger A, et al. **Hum Immunol** 1996 Mar;46(1):42–8
Polymorphism of HLA–DRB, –DQA1, and –DQB1 in rheumatoid arthritis in Asian Indians: association with DRB1*0405 and DRB1*1001. Taneja V, et al. **Hum Immunol** 1996 Mar;46(1):35–41
Experimental autoimmune uveitis in HLA–B27 transgenic mice. Willbanks GA, et al. **Hum Immunol** 1997 Apr 1; 53(2):188–94
HLA–DRB1*1608: a new HLA–DRB1*16 allele with a short DRB1*03 sequence. Reviron D, et al. **Immunogenetics** 1997;46(5):444–5
The TNF2 allele does not contribute towards susceptibility to systemic lupus erythematosus. Chen CJ, et al. **Immunol Lett** 1997 Jan;55(1):1–3
A wide spectrum of collagen vascular and autoimmune diseases in transgenic rats carrying the env–pX gene of human T lymphocyte virus type I. Yamazaki H, et al. **Int Immunol** 1997 Feb;9(2):339–46
Molecular mechanisms underlying HLA–DR–associated susceptibility to autoimmunity. Matsushita S, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S81–90
Murine genotype influences the specificity, magnitude and persistence of murine mercury–induced autoimmunity.

Hultman P, et al. **J Autoimmun** 1996 Apr;9(2):139–49
Genetics of systemic autoimmunity. Theofilopoulos AN. **J Autoimmun** 1996 Apr;9(2):207–10 (35 ref.)
Constitutive expression of interleukin (IL)–4 in vivo causes autoimmune–type disorders in mice. Erb KJ, et al. **J Exp Med** 1997 Jan 20;185(2):329–39
Susceptibility of experimental autoimmune hepatitis in transgenic mice overexpressing the c–H–ras gene. Tsunematsu S, et al. **J Gastroenterol Hepatol** 1997 Apr; 12(4):319–24
Genetic predispositions for immunological features in chronic liver diseases other than autoimmune hepatitis. Czaja AJ, et al. **J Hepatol** 1996 Jan;24(1):52–9
Triggers of autoimmune disease in a murine TCR–transgenic model for multiple sclerosis. Brabb T, et al. **J Immunol** 1997 Jul 1;159(1):497–507
Genetic susceptibility to experimental autoimmune uveoretinitis in the rat is associated with an elevated Th1 response. Caspi RR, et al. **J Immunol** 1996 Sep 15; 157(6):2668–75
Mapping of a gene for the increased susceptibility of B1 cells to Mott cell formation in murine autoimmune disease. Jiang Y, et al. **J Immunol** 1997 Jan 15;158(2):992–7
Interval mapping of quantitative trait loci controlling humoral immunity to exogenous antigens: evidence that non–MHC immune response genes may also influence susceptibility to autoimmunity. Wu J, et al. **J Immunol** 1996 Sep 15;157(6):2498–505
Primary biliary cirrhosis [editorial] Jones DE, et al. **J Intern Med** 1997 May;241(5):345–8 (15 ref.)
Spontaneous autoimmune skin lesions of MRL/n mice: autoimmune disease–prone genetic background in relation to Fas–defect MRL/1pr mice [see comments] Furukawa F, et al. **J Invest Dermatol** 1996 Jul;107(1):95–100. Comment in: J Invest Dermatol 1996 Jul;107(1):3–4.
Vascular cell adhesion molecule–1 mRNA is expressed in immune–mediated and ischemic injury of the rat nervous system. Jander S, et al. **J Neuroimmunol** 1996 Oct; 70(1):75–80
Cytokines as genetic modifying factors in immune and inflammatory diseases. Cox A, et al. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:129–32 (28 ref.)
The HLA associated predisposition to type 1 diabetes and other autoimmune diseases. Thorsby E, et al. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:75–88 (52 ref.)
HLA typing in a large family with multiple cases of different autoimmune diseases. Sels F, et al. **J Rheumatol** 1997 May; 24(5):856–9
Hypothesis for the pathogenesis of systemic sclerosis. Furst DE, et al. **J Rheumatol Suppl** 1997 May;48:53–7 (74 ref.)
Participation of non–major histocompatibility antigen complex gene in experimental autoimmune uveitis. Yoshikawa K, et al. **Jpn J Ophthalmol** 1995;39(4):347–52
Genetic factors predisposing to B–CLL and to autoimmune disease in spontaneous murine model. Hirose S, et al. **Leukemia** 1997 Apr;11 Suppl 3:267–70
Restriction fragment length polymorphisms of constant region genes of immunoglobulin lambda chains in Venezuelan patients with systemic lupus erythematosus. Blasini AM, et al. **Lupus** 1996 Aug;5(4):300–2
A clinical and serological comparison of familial and non–familial systemic lupus erythematosus in Ireland. Gourley IS, et al. **Lupus** 1996 Aug;5(4):288–93
Congenital heart block and subsequent connective tissue disorder in adolescence. Hubscher O, et al. **Lupus** 1997; 6(3):283–4
Histocompatibility genes in antiphospholipid antibody syndrome. Wilson WA. **Lupus** 1996 Aug;5(4):259–62
X chromosome inactivation patterns correlate with fetal–placental anatomy in monozygotic twin pairs: implications for immune relatedness and concordance for autoimmunity. Trejo V, et al. **Mol Med** 1994 Nov; 1(1):62–70
Fas gene mutations in the Canale–Smith syndrome, an inherited lymphoproliferative disorder associated with autoimmunity [see comments] Drappa J, et al. **N Engl J Med** 1996 Nov 28;335(22):1643–9. Comment in: N Engl J Med 1997 May 15;336(20):1457; discussion 1457–8.
The Canale–Smith syndrome [letter; comment] Straus SE, et al. **N Engl J Med** 1997 May 15;336(20):1457; discussion 1457–8. Comment on: N Engl J Med 1996 Nov 28;335(22):1643–9.
Schizophrenia, rheumatoid arthritis and natural resistance genes. Rubinstein G. **Schizophr Res** 1997 Jun 20; 25(3):177–81 (40 ref.)
Autoimmune diseases in the pedigrees of schizophrenic and control subjects. Wright P, et al. **Schizophr Res** 1996 Jul 5;20(3):261–7
Separation of major histocompatibility complex (MHC) and non–MHC gene effects in the development of T cell subsets in relation to susceptibility to cyclosporine A–induced autoimmunity. Damoiseaux JG, et al. **Transplant Proc** 1997 May;29(3):1690–1
Inheritance of serum autoantibody, reduced serum IgA and autoimmune disease in a canine breeding colony. Day MJ. **Vet Immunol Immunopathol** 1996 Oct;53(3–4):207–19
[Generalized autoimmune diseases in BALB/c mice with a genetically dependent interleukin–2 deficiency] Löhler J, et al. **Verh Dtsch Ges Pathol** 1996;80:293–6 (Eng. Abstr.) **(Ger)**
[A polymorphic markers for the p75 tumor necrosis factor receptor gene: use for analyzing disease linkage] Turetskaia RL, et al. **Dokl Akad Nauk** 1996 Dec;351(4):558–60 **(Rus)**
[Twin studies of myasthenia] Agafonov BV, et al. **Zh Nevrol Psikhiatr Im S S Korsakova** 1997;97(8):18–21 (Eng. Abstr.) **(Rus)**
[Polymorphism of cytokine genes in autoimmune diseases] Gómez de la Concha E. **An R Acad Nac Med (Madr)** 1996; 113(3):537–42; discussion 543 **(Spa)**

IMMUNOLOGY

Experimental hepatitis and role of cytokines. Tiegs G. **Acta Gastroenterol Belg** 1997 Apr–Jun;60(2):176–9 (31 ref.)
Myasthenia gravis and primary biliary cirrhosis. Common immunological features and rare coincidence. Kiechl S, et al. **Acta Neurol Scand** 1996 Apr;93(4):263–5 (21 ref.)
Experimental autoimmune myocarditis: a suitable model to study neuroimmune crosstalk. Leiros CP, et al. **Acta Physiol Pharmacol Ther Latinoam** 1995;45(4):201–12 (83 ref.)
Mature T lymphocyte apoptosis in the healthy and diseased immune system. Zheng L, et al. **Adv Exp Med Biol** 1996; 406:229–39
The neuroimmunology of multiple sclerosis. Coyle PK. **Adv Neuroimmunol** 1996;6(2):143–54 (83 ref.)
Psychoneuroimmunology of autoimmune disorders. Rogers MP, et al. **Adv Neuroimmunol** 1996;6(2):169–77 (73 ref.)
Clinical neuroimmunology. Xu X, et al. **Adv Neuroimmunol** 1996;6(3):249–57
Autoimmune bullous diseases. Rye B, et al. **Am Fam Physician** 1997 Jun;55(8):2709–18 (26 ref.)
Buffer may be the critical factor in measurement of anti–prothrombin antibody on a gamma–ray–irradiated plate by enzyme–linked immunosorbent assay. Matsuda J, et al. **Am J Hematol** 1996 Dec;53(4):242–4
Autoimmune retinopathy in the absence of cancer. Mizener JB, et al. **Am J Ophthalmol** 1997 May;123(5):607–18
Sperm, nuclear, phospholipid, and red blood cell antibodies and isotype RF in infertile couples and patients with autoimmune rheumatic diseases. Fichorova R, et al. **Am J Reprod Immunol** 1996 Dec;36(6):309–16
ZP3 peptide vaccine that induces antibody and reversible infertility without autoimmune oophoritis. Tung KS, et al. **Am J Reprod Immunol** 1996 Mar;35(3):181–3
Autoimmunity and the nervous system. Newsom–Davis J. **Ann Acad Med Singapore** 1996 Mar;25(2):309–14 (20 ref.)
Case report: autoimmune insulin syndrome in a Chinese female with Graves' disease. Wong ST, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):882–5
Smoking and autoimmune thyroid disease [letter] Fernandez–Soto L, et al. **Ann Intern Med** 1997 Jun 15; 126(12):1005
Autoimmune hepatitis. Vergani D, et al. **Ann Ital Med Int** 1996 Apr–Jun;11(2):119–24 (50 ref.)
The role of IL–12 in the pathogenesis of Th1 cell–mediated autoimmune diseases. Adorini L, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:208–15 (46 ref.)
Inhibition of sodium channel currents by antineuronal autoantibody from autoimmune mice. Crimando J, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:303–7
Characterization of the adjuvant effect of IL–12 and efficacy of IL–12 inhibitors in type II collagen–induced arthritis. Germann T, et al. **Ann N Y Acad Sci** 1996 Oct 31; 795:227–40
Molecular mimicry in human aortic aneurysmal diseases. Ozsvath KJ, et al. **Ann N Y Acad Sci** 1996 Nov 18; 800:288–93
Myasthenia gravis: immunological mechanisms and immunotherapy. Lewis RA, et al. **Ann Neurol** 1995 May; 37 Suppl 1:S51–62 (109 ref.)
Guillain–Barré syndrome and chronic inflammatory demyelinating polyneuropathy: immune mechanisms and update on current therapies. van der Meché FG, et al. **Ann Neurol** 1995 May;37 Suppl 1:S14–31 (167 ref.)
Rheumatoid factors: where are we now? Soltys AI, et al. **Ann Rheum Dis** 1997 May;56(5):285–6
Cellular and molecular mechanisms of murine autoimmune myocarditis. Penninger JM, et al. **APMIS** 1997 Jan; 105(1):1–13 (81 ref.)
Immune–mediated subepithelial blistering diseases of the mucous membranes. Improving the detection of circulating autoantibodies by the use of concentrated serum samples. Korman NJ, et al. **Arch Dermatol** 1996 Oct;132(10):1194–8
Deficiency of naive T cells in patients with sudden deafness. García–Berrocal JR, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):712–7
Characteristic epitope recognition pattern of autoantibodies against eukaryotic ribosomal protein L7 in systemic autoimmune diseases. Neu E, et al. **Arthritis Rheum** 1997 Apr;40(4):661–71
Role of sex hormones in autoimmune disease: comment on the article by Nelson [letter] Steinberg AD. **Arthritis Rheum** 1996 Oct;39(10):1766–7
Clinical rheumatologic applications of reproductive immunology. Facts, fiction, and fancy. Wallace DJ, et al. **Arthritis Rheum** 1997 Feb;40(2):209–16 (68 ref.)
Immunogenetics and the cause of autoimmune disease. Baxter AG. **Autoimmunity** 1997;25(3):177–89 (67 ref.)
Immunoglobulin allotypes (GM and KM) and their interactions with HLA antigens in autoimmune diseases: a review. Dugoujon JM, et al. **Autoimmunity** 1995; 22(4):245–60 (176 ref.)
A novel anti–microfilament antibody, anti–135 kD, is associated with Raynaud's disease, undifferentiated connective tissue disease and systemic autoimmune diseases. Girard D, et al. **Autoimmunity** 1996;24(3):167–77
Immunocytochemical localisation of tumor necrosis factor alpha in thyroid tissues from patients with neoplastic or autoimmune thyroid disorders. Kayser L, et al. **Autoimmunity** 1996;23(2):91–7
Differential involvement of Th1 and Th2 cytokines in autoimmune diseases. Kroemer G, et al. **Autoimmunity** 1996;24(1):25–33 (68 ref.)
Analysis of antibody–dependent cell–mediated cytotoxicity in autoimmune thyroid disease. Metcalfe RA, et al. **Autoimmunity** 1997;25(2):65–72
Experimental graft versus host disease in the (BN x LEW) F1 rat hybrid as a model for autoimmune disease. Study of early adenitis in lacrimal and salivary glands. Peszkowski MJ, et al. **Autoimmunity** 1996;24(2):101–11
Is premature ovarian failure an autoimmune disease? Wheatcroft N, et al. **Autoimmunity** 1997;25(3):157–65 (48 ref.)
The role of Fas/FasL interactions in the regulation of B cell function. Jacobson BA, et al. **Behring Inst Mitt** 1996 Oct; (97):185–99 (44 ref.)
Autoimmune disease results from multiple interactive defects in apoptosis induction molecules and signaling pathways. Mountz JD, et al. **Behring Inst Mitt** 1996 Oct;(97):200–19 (116 ref.)
Molecular mimicry with MHC–derived peptides: does this underlie MHC association with autoimmune disease? Baum H. **Biochem Soc Trans** 1997 May;25(2):636–42 (27 ref.)
Antibodies to lactoferrin—a possible link between cow's milk intolerance and autoimmune disease. Brock JH, et al. **Biochem Soc Trans** 1997 May;25(2):317S
A common structural motif in immunopotentiating peptides with sequences present in human autoantigens. Elicitation of a response mediated by monocytes and Th1 cells. López–Moratalla N, et al. **Biochim Biophys Acta** 1996 Dec 16;1317(3):183–91
Deficiency of the Fas apoptosis pathway without Fas gene mutations in pediatric patients with autoimmunity/lymphoproliferation. Dianzani U, et al. **Blood** 1997 Apr 15;89(8):2871–9
Isolation of a T–cell clone showing HLA–DRB1*0405–restricted cytotoxicity for hematopoietic cells in a patient with aplastic anemia. Nakao S, et al. **Blood** 1997 May 15;89(10):3691–9
Drug–induced linear IgA disease: target antigens are heterogeneous. Paul C, et al. **Br J Dermatol** 1997 Mar; 136(3):406–11
A typical case of pemphigoid gestationis with a unique pattern of intercellular immunofluorescence. Vaughan Jones SA, et al. **Br J Dermatol** 1997 Feb;136(2):245–8
Epidermolysis bullosa acquisita associated with epidermal–binding circulating antibodies. Wakelin SH, et al. **Br J Dermatol** 1997 Apr;136(4):604–9
Lymphocyte subsets and ocular inflammation: future prospects for immune deviation therapy? [editorial; comment] Kijlstra A. **Br J Ophthalmol** 1996 Nov; 80(11):938–9. Comment on: Br J Ophthalmol 1996 Nov;80(11):1002–8.
Interphotoreceptor retinoid binding protein is a potent tolerogen in Lewis rat: suppression of experimental autoimmune uveoretinitis is retinal antigen specific. Laliotou B, et al. **Br J Ophthalmol** 1997 Jan;81(1):61–7
Immunoadhesins for immunomodulation of autoimmune and rheumatic disease [editorial] Isaacs JD. **Br J Rheumatol** 1997 Mar;36(3):305–7
Blunted sensitivity to sucrose in autoimmune MRL–lpr mice: a curve–shift study. Sakić B, et al. **Brain Res Bull** 1996; 41(5):305–11
Neuroimmune mechanisms in health and disease: 2. Disease. Anisman H, et al. **Can Med Assoc J** 1996 Oct 15; 155(8):1075–82 (63 ref.)
Altered response to and production of TGF–beta by B cells from autoimmune NZB mice. Douglas RS, et al. **Cell Immunol** 1997 Aug 1;179(2):126–37
Uveitogenicity is associated with a Th1–like lymphokine profile: cytokine–dependent modulation of early and committed effector T cells in experimental autoimmune uveitis. Xu H, et al. **Cell Immunol** 1997 May 25;178(1):69–78
Apoptosis of myelin–reactive T cells induced by reactive oxygen and nitrogen intermediates in vitro. Zettl UK, et al. **Cell Immunol** 1997 May 25;178(1):1–8
New autoantibodies and their antigens in autoimmune diseases. Storch WB. **Cell Mol Biol (Noisy–le–grand)** 1997 May;43(3):337–44 (52 ref.)
Th1 and Th2 cells in autoimmunity. Druet P, et al. **Chem Immunol** 1996;63:138–70 (67 ref.)
T cell tolerance and autoimmunity. Miller JF, et al. **Ciba Found Symp** 1997;204:159–68; discussion 168–71
Cardiac autoantibodies in dilated cardiomyopathy: a pathogenetic role? [editorial; comment] Limas CJ. **Circulation** 1997 Apr 15;95(8):1979–80. Comment on: Circulation 1997 Apr 15;95(8):1994–7.
Prevalence of biotin–binding immunoglobulin in patients with allergic and autoimmune diseases. Nagamine T, et al. **Clin Chim Acta** 1996 Feb 28;245(2):209–17
Measuring soluble adhesion molecules [letter; comment] Osterland CK. **Clin Diagn Lab Immunol** 1997 Jul;4(4):496–7

. Comment on: Clin Diagn Lab Immunol 1997 May;4(3):241–6.
Autoantibody reactive with the human general transcription factor TFIIF in sera from patients with autoimmune disorders. Cai Y, et al. **Clin Exp Immunol** 1997 Sep; 109(3):488–94
Serum levels of soluble Fas/APO–1 (CD95) and its molecular structure in patients with systemic lupus erythematosus (SLE) and other autoimmune diseases. Jodo S, et al. **Clin Exp Immunol** 1997 Jan;107(1):89–95
Up–regulation of the endothelial cell adhesion molecule intercellular adhesion molecule–1 (ICAM–1) by autoantibodies in autoimmune vasculitis. Johnson PA, et al. **Clin Exp Immunol** 1997 May;108(2):234–42
Up–regulated beta1–integrin expression in autoimmune thyroid disorders. Marazuela M, et al. **Clin Exp Immunol** 1997 Jul;109(1):107–15
High incidence of autoimmune dacryoadenitis in male non–obese diabetic (NOD) mice depending on sex steroid. Takahashi M, et al. **Clin Exp Immunol** 1997 Sep; 109(3):555–61
Antibodies to Jo–1 and Ro–52: why do they go together? [editorial] Venables PJ. **Clin Exp Immunol** 1997 Sep; 109(3):403–5
Autoimmune C1–inhibitor deficiency [editorial] Whaley K, et al. **Clin Exp Immunol** 1996 Dec;106(3):423–6 (24 ref.)
A new approach to cytochrome CYP2D6 antibody detection in autoimmune hepatitis type–2 (AIH–2) and chronic hepatitis C virus (HCV) infection: a sensitive and quantitative radioligand assay. Yamamoto AM, et al. **Clin Exp Immunol** 1997 Jun;108(3):396–400
Significance of tissue specific and tissue non specific autoimmune reactions of Graves' disease. Kiljanski J, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S69–76
Lymphocyte adhesion molecules in autoimmune rheumatic diseases: basic issues and clinical expectations. Sfikakis PP, et al. **Clin Exp Rheumatol** 1995 Nov–Dec;13(6):763–77 (108 ref.)
Autoimmune MRL mice express high–affinity IgG2b monoclonal autoantibodies to heparin. Fillit H, et al. **Clin Immunol Immunopathol** 1996 Oct;81(1):62–7
The immunopharmacology of the opsoclonus–myoclonus syndrome. Pranzatelli MR. **Clin Neuropharmacol** 1996 Feb; 19(1):1–47 (285 ref.)
Autoimmune enteropathy in a pediatric patient: partial response to tacrolimus therapy. Steffen R, et al. **Clin Pediatr (Phila)** 1997 May;36(5):295–9
The antibody response in human autoimmune thyroid disease [editorial] McIntosh RS, et al. **Clin Sci (Colch)** 1997 Jun; 92(6):529–41 (110 ref.)
Autoimmune pathogenesis of multiple sclerosis: role of autoreactive T lymphocytes and new immunotherapeutic strategies. Stinissen P, et al. **Crit Rev Immunol** 1997; 17(1):33–75 (357 ref.)
Current concepts of autoimmune exocrinopathy: immunologic mechanisms in the salivary pathology of Sjögren's syndrome. Fox PC, et al. **Crit Rev Oral Biol Med** 1996;7(2):144–58 (111 ref.)
Differences in the anti–basement membrane zone antibodies in ocular and pseudo–ocular cicatricial pemphigoid. Bhol K, et al. **Curr Eye Res** 1996 May;15(5):521–32
Manipulation of the Th1/Th2 balance in autoimmune disease. Nicholson LB, et al. **Curr Opin Immunol** 1996 Dec; 8(6):837–42 (62 ref.)
Costimulation and autoimmunity. Tivol EA, et al. **Curr Opin Immunol** 1996 Dec;8(6):822–30 (66 ref.)
The nephritogenic immune response. Fitzsimons MM, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):267–75 (75 ref.)
Rasmussen's encephalitis: an autoimmune disorder? Andrews PI, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):673–8 (46 ref.)
Inflammatory myopathies [see comments] Tews DS, et al. **Curr Opin Neurol** 1996 Oct;9(5):375–9 (29 ref.). Comment in: Curr Opin Neurol 1996 Oct;9(5):367–8.
The BB/Wor rat and the balance hypothesis of autoimmunity. Mordes JP, et al. **Diabetes Metab Rev** 1996 Jul;12(2):103–9 (55 ref.)
Hyperexpression of GAD in the islets may be relevant but is it sufficient to induce autoimmune insulitis? [comment] Pozzilli P, et al. **Diabetologia** 1997 Mar;40(3):357–61 (28 ref.). Comment on: Diabetologia 1997 Mar;40(3):352–6.
Antinuclear antibodies and patterns of nuclear immunofluorescence in type 1 autoimmune hepatitis. Czaja AJ, et al. **Dig Dis Sci** 1997 Aug;42(8):1688–96
Autoimmune pancreatitis as a new clinical entity. Three cases of autoimmune pancreatitis with effective steroid therapy. Ito T, et al. **Dig Dis Sci** 1997 Jul;42(7):1458–68
Characterization of target antigens from anti–neutrophil cytoplasmic antibodies in autoimmune hepatitis type–I. Kellner R, et al. **Electrophoresis** 1997 Mar–Apr; 18(3–4):507–10
Antibodies targeting the calcium sensing receptor: acquired hypoparathyroidism—an autoimmune disease at last? Hofbauer LC, et al. **Eur J Endocrinol** 1996 Aug; 135(2):172–3 (8 ref.)
Update on the thyroid sodium iodide symporter: a novel thyroid antigen emerging on the horizon. Spitzweg C, et al. **Eur J Endocrinol** 1997 Jul;137(1):22–3 (7 ref.)
Neutrophil antibodies (pANCA) in chronic liver disease and inflammatory bowel disease: do they react with different antigens? Seibold F, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1095–100
Altered peptide ligands: prospects for immune intervention in autoimmune disease. Fairchild PJ. **Eur J Immunogenet** 1997 Apr;24(2):155–67 (65 ref.)
Correction of Fas (CD95) deficiency by haploidentical bone marrow transplantation. Benkerrou M, et al. **Eur J Immunol** 1997 Aug;27(8):2043–7
Restricted appearance of self–reactive clones into T cell receptor intermediate cells in neonatally thymectomized mice with autoimmune disease. Moroda T, et al. **Eur J Immunol** 1996 Dec;26(12):3084–91
Autoimmune disorders, physical activity, and training, with particular reference to rheumatoid arthritis. Shephard RJ, et al. **Exerc Immunol Rev** 1997;3:53–67 (80 ref.)
Immunopathogenicity of thyrotropin receptor—ability to induce autoimmune thyroid disease in an experimental animal model. Banga JP. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:32–4 (21 ref.)
Antibodies to bovine serum albumin (BSA) in type 1 diabetes and other autoimmune disorders [see comments] Füchtenbusch M, et al. **Exp Clin Endocrinol Diabetes** 1997; 105(2):86–91. Comment in: Exp Clin Endocrinol Diabetes 1997 ;105(2):83–5.
Experimental autoimmunity to thyrotropin receptor. Patibandla SA, et al. **Exp Clin Endocrinol Diabetes** 1996; 104 Suppl 3:28–32
Cellular and humoral autoimmunity in insulin–dependent diabetes mellitus. Scherbaum WA, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:88–94 (68 ref.)
The SCID mouse model: a discussion. Weetman AP. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:40–2 (7 ref.)
Myelin protein Po as a potential autoantigen in autoimmune inner ear disease. Cao MY, et al. **FASEB J** 1996 Dec; 10(14):1635–40
Autoimmunity and reproduction. Geva E, et al. **Fertil Steril** 1997 Apr;67(4):599–611 (100 ref.)
Autoimmunity in myocarditis and dilated cardiomyopathy: cardiac autoantibody frequency and clinical correlates in a patient series from Italy. Caforio AL, et al. **G Ital Cardiol** 1997 Feb;27(2):106–12
Neonatal injection of native proton pump antigens induces autoimmune gastritis in mice. Claeys D, et al. **Gastroenterology** 1997 Oct;113(4):1136–45
Antibodies to carbonic anhydrase in autoimmune cholangiopathy [letter; comment] Muratori P, et al. **Gastroenterology** 1997 Mar;112(3):1053–4. Comment on: Gastroenterology 1995 Jun;108(6):1802–9.
Fas/Apo1 mutations and autoimmune lymphoproliferative syndrome in a patient with type 2 autoimmune hepatitis. Pensati L, et al. **Gastroenterology** 1997 Oct;113(4):1384–9
Genomic organization and transcript analysis of ICAp69, a target antigen in diabetic autoimmunity. Gaedigk R, et al. **Genomics** 1996 Dec 15;38(3):382–91
Autoimmune cholangitis. Heathcote J. **Gut** 1997 Apr; 40(4):440–2
Circulating antiplatelet antibody specificity in children with immune thrombocytopenic purpura at onset [letter] Biglino P, et al. **Haematologica** 1997 Jan–Feb;82(1):127
Pathogenic role of antiprotein–phospholipid antibodies. Carreras LO, et al. **Haemostasis** 1996 Oct;26 Suppl 4:340–57 (91 ref.)
Antiphospholipid–protein antibodies: clinical use of laboratory test results (identification, predictive value, treatment). Triplett DA. **Haemostasis** 1996 Oct;26 Suppl 4:358–67 (44 ref.)
A comparison of the prevalence of autoantibodies in individuals with chronic hepatitis C and those with autoimmune hepatitis: the role of interferon in the development of autoimmune diseases. Bayraktar Y, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):417–25
Clinical significance of different antinuclear antibodies patterns in the course of primary biliary cirrhosis. Remmel T, et al. **Hepatogastroenterology** 1996 Sep–Oct; 43(11):1135–40
Serum autoantibodies in chronic hepatitis C: comparison with autoimmune hepatitis and impact on the disease profile. Cassani F, et al. **Hepatology** 1997 Sep;26(3):561–6
Antibodies to single–stranded and double–stranded DNA in antinuclear antibody–positive type 1–autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1997 Sep;26(3):567–72
Frequency and significance of antibodies to actin in type 1 autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1996 Nov;24(5):1068–73
Autoreactive CD4+ LKM–specific and anticlonotypic T–cell responses in LKM–1 antibody–positive autoimmune hepatitis. Löhr HF, et al. **Hepatology** 1996 Dec; 24(6):1416–21
Clonotypic analysis of T cells in patients with autoimmune and viral hepatitis. Tanaka A, et al. **Hepatology** 1997 May; 25(5):1070–6
Anti–neutrophil cytoplasmic antibodies in type 1 and 2 autoimmune hepatitis. Zauli D, et al. **Hepatology** 1997 May; 25(5):1105–7
Autoimmune endocrine disease. Karlsson FA. **Horm Metab Res** 1996 Jul;28(7):351–2 (27 ref.)
Autoimmune endocrine ophthalmopathy and retrobulbar antigens. Otto E, et al. **Horm Metab Res** 1995 Dec; 27(12):533–8
Autoimmune diseases: tracing the shared threads. Rose NR. **Hosp Pract (Off Ed)** 1997 Apr 15;32(4):147–54 (5 ref.)
Incidence of anti–mouse antibodies in thrombocytopenic patients with autoimmune disorders. Clofent–Sanchez G, et al. **Hum Antibodies** 1997;8(2):50–9
The effects of T cell subpopulations and recombinant interleukin (IL)–2 on peripheral B cell function in patients with myasthenia gravis. Zhang J, et al. **Hum Antibodies** 1997;8(2):90–4
Reactivity to tyrosinase: expression in cancer (melanoma) and autoimmunity (vitiligo). Merimsky O, et al. **Hum Antibodies Hybridomas** 1996;7(4):151–6
Do DNA vaccines induce autoimmune disease? Mor G, et al. **Hum Gene Ther** 1997 Feb 10;8(3):293–300
Are we overlooking (auto) immune ovarian infertility? [see comments] Gleicher N, et al. **Hum Reprod** 1997 Apr; 12(4):637. Comment in: Hum Reprod 1997 Apr;12(4):638–9.
Mechanisms of autoimmune disease in the testis and ovary. Tung KS, et al. **Hum Reprod Update** 1995 Jan;1(1):35–50 (114 ref.)
Editing disease–associated autoantibodies. Chen C, et al. **Immunity** 1997 Jan;6(1):97–105
Neonatal injection of an ovarian peptide induces autoimmune ovarian disease in female mice: requirement of endogenous neonatal ovaries. Garza KM, et al. **Immunity** 1997 Jan; 6(1):89–96
Molecular mimicry: can epitope mimicry induce autoimmune disease? Davies JM. **Immunol Cell Biol** 1997 Apr; 75(2):113–26 (143 ref.)
Peptide binding function and the paradox of HLA disease associations. Hughes AL, et al. **Immunol Cell Biol** 1996 Oct;74(5):444–8 (31 ref.)
Modulation of experimental allergic encephalomyelitis in mice by immunization with a peptide specific for the gamma delta T cell receptor. Olive C. **Immunol Cell Biol** 1997 Feb;75(1):102–6
Autoimmunity and the highway to diabetes. Price P. **Immunol Cell Biol** 1997 Feb;75(1):1–6 (56 ref.)
Monoclonal antibody to heparan sulfate from autoimmune tight skin (TSK) mice binds to the endothelial cell surface. Matic M, et al. **Immunol Invest** 1997 Apr;26(3):371–81
Reactive oxygen species modified thymine and poly(dT) present unique epitope for human anti–DNA autoantibodies. Ahmad J, et al. **Immunol Lett** 1997 Jul; 58(2):69–74
Clinically insignificant (natural) autoantibodies against acetyl cholinesterase in the sera of patients with a variety of neurologic, muscular and autoimmune diseases. Lidar T, et al. **Immunol Lett** 1997 Feb;55(2):79–84
Calorie restriction modulates lymphocyte subset phenotype and increases apoptosis in MRL/lpr mice. Luan X, et al. **Immunol Lett** 1995 Sep;47(3):181–6
Self determinant selection and acquisition of the autoimmune T cell repertoire. Benichou G, et al. **Immunol Res** 1996; 15(3):234–45 (46 ref.)
Emerging cross–regulatory roles of immunity and autoimmunity in atherosclerosis. George J, et al. **Immunol Res** 1996;15(4):315–22 (42 ref.)
Experimental autoimmune uveitis: molecular mimicry and oral tolerance. Singh VK, et al. **Immunol Res** 1996; 15(4):323–46 (179 ref.)
Immunopathology or organ–specific autoimmunity as a consequence of virus infection. Aichele P, et al. **Immunol Rev** 1996 Aug;152:21–45 (149 ref.)
Superantigens in autoimmune diseases: still more shades of gray. Renno T, et al. **Immunol Rev** 1996 Dec;154:175–91 (103 ref.)
Autoimmune T cells in myasthenia gravis: heterogeneity and potential for specific immunotargeting. Hawke S, et al. **Immunol Today** 1996 Jul;17(7):307–11 (32 ref.)
Autoimmune diabetes: the role of the islets of Langerhans. Homo–Delarche F, et al. **Immunol Today** 1996 Oct; 17(10):456–60 (92 ref.)
The nature of autoantigens targeted in autoimmune endocrine diseases. Song YH, et al. **Immunol Today** 1996 May; 17(5):232–38 (82 ref.)
Oral tolerance: immune mechanisms and treatment of autoimmune diseases. Weiner HL. **Immunol Today** 1997 Jul; 18(7):335–43 (143 ref.)
Polyclonal Th1 cells transfer oil–induced arthritis. Svelander L, et al. **Immunology** 1997 Jun;91(2):260–5
Mouse models of autoimmune disease suggest that self–tolerance is maintained by unresponsive autoreactive T cells. Taguchi O, et al. **Immunology** 1996 Sep;89(1):13–9
Some basic mechanisms of autoimmune diseases: a review. Badakere SS. **Indian J Med Sci** 1996 May;50(5):131–7 (13 ref.)
Autoimmune phenomena and activation of the immune system in HIV infection [letter] Radkowski M, et al. **Infection** 1996 Jan–Feb;24(1):56
Recent developments in the understanding of antinuclear autoantibodies. Casiano CA, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):308–13 (33 ref.)
IgE allotypes in sera of mice with autoimmune diseases and in mice with graft–versus–host disease after transfusion or bone marrow transplantation. Miyajima H, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):152–5
Evidence for heterogeneous TCR V beta repertoire expression in mercury–induced immune disorders in rats. Fillion J, et al. **Int Immunol** 1997 Feb;9(2):263–71
Alteration of a polyclonal to an oligoclonal immune response to cecal aerobic bacterial antigens in TCR alpha mutant mice with inflammatory bowel disease. Mizoguchi A, et al. **Int Immunol** 1996 Sep;8(9):1387–94
Definition of an extended MHC class II–peptide binding motif for the autoimmune disease–associated Lewis rat

RT1.BL molecule. Wauben MH, et al. **Int Immunol** 1997 Feb;9(2):281–90

Immune mechanism of aplastic anemia. Nakao S. **Int J Hematol** 1997 Aug;66(2):127–34 (26 ref.)

Immunoreactivity and conformation of the P–P–G–M–R–P–P repetitive epitope of the Sm autoantigen. Tsikaris V, et al. **Int J Pept Protein Res** 1996 Oct;48(4):319–27

The place of Behçet's syndrome among the autoimmune diseases. Yazici H. **Int Rev Immunol** 1997;14(1):1–10 (41 ref.)

Interferon or corticosteroid: treatment of patients with chronic hepatitis C positive for serum markers of autoimmune diseases [editorial] Toda G. **Intern Med** 1997 Apr;36(4):233–5

Resident and infiltrating immune cells in the uveal tract in the early and late stages of experimental autoimmune uveoretinitis. Butler TL, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2195–210

Systemic lupus erythematosus after thymectomy in a patient with myasthenia gravis [letter] Sant SM. **Ir Med J** 1997 Apr–May;90(3):116, 118

Organ-specific autoantibodies in coeliac disease: do they represent an epiphenomenon or the expression of associated autoimmune disorders? Volta U, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):18–21

A neuroimmune hypothesis for the aetiopathology of viral illness and manic depression: a case report of an adolescent. Pavuluri MN, et al. **J Affect Disord** 1996 Jun 20;39(1):7–11

Assessment of autoimmunity in patients with chronic urticaria. Tong LJ, et al. **J Allergy Clin Immunol** 1997 Apr; 99(4):461–5

Proteinase 3, the major autoantigen of Wegener's granulomatosis, enhances IL–8 production by endothelial cells in vitro. Berger SP, et al. **J Am Soc Nephrol** 1996 May;7(5):694–701

The penetration of autoantibodies into cells may induce tolerance to self by apoptosis of autoreactive lymphocytes and cause autoimmune disease by dysregulation and/or cell damage. Alarcón-Segovia D, et al. **J Autoimmun** 1996 Apr; 9(2):295–300

T cell–mediated maintenance of natural self–tolerance: its breakdown as a possible cause of various autoimmune diseases. Sakaguchi S, et al. **J Autoimmun** 1996 Apr; 9(2):211–20 (58 ref.)

Common infections, idiotypic dysregulation, autoantibody spread and induction of autoimmune diseases. Shoenfeld Y. **J Autoimmun** 1996 Apr;9(2):235–9 (39 ref.)

Characterization of estrogen–induced autoantibodies to cardiolipin in non–autoimmune mice. Verthelyi D, et al. **J Autoimmun** 1997 Apr;10(2):115–25

Silicone gel and octamethylcyclotetrasiloxane (D4) enhances antibody production to bovine serum albumin in mice. Nicholson JJ 3rd, et al. **J Biomed Mater Res** 1996 Jul; 31(3):345–53

Autism and the immune system. van Gent T, et al. **J Child Psychol Psychiatry** 1997 Mar;38(3):337–49 (115 ref.)

Identification of 3 beta–hydroxysteroid dehydrogenase as a novel target of steroid cell autoantibodies: association of autoantibodies with endocrine autoimmune disease. Arif S, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4439–45

II. Adrenal cortex and steroid 21–hydroxylase autoantibodies in children with organ–specific autoimmune diseases: markers of high progression to clinical Addison's disease. Betterle C, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):939–42

I. Adrenal cortex and steroid 21–hydroxylase autoantibodies in adult patients with organ–specific autoimmune diseases: markers of low progression to clinical Addison's disease. Betterle C, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):932–8

Antimitochondrial antibody–negative chronic nonsuppurative destructive cholangitis. Atypical primary biliary cirrhosis or autoimmune cholangitis? Sánchez–Pobre P, et al. **J Clin Gastroenterol** 1996 Oct;23(3):191–8

An extract from cultured human keratinocytes that contains the major autoantigens related to autoimmune bullous skin diseases. Batteux F, et al. **J Clin Immunol** 1997 May; 17(3):228–33

Antiplatelet glycoprotein autoantibodies in patients with autoimmune diseases with and without thrombocytopenia. Cordiano I, et al. **J Clin Immunol** 1996 Nov;16(6):340–7

Combined heterozygous deficiency of the classical complement pathway proteins C2 and C4. Hartmann D, et al. **J Clin Immunol** 1997 Mar;17(2):176–84

Passive transfer of anti–laminin 5 antibodies induces subepidermal blisters in neonatal mice. Lazarova Z, et al. **J Clin Invest** 1996 Oct 1;98(7):1509–18

Thyroid disease and retinitis pigmentosa [letter; comment] Proto G, et al. **J Endocrinol Invest** 1996 Oct;19(9):647–8 . Comment on: J Endocrinol Invest 1996 Mar;19(3):170–4.

Direct ex vivo analysis of activated, Fas–sensitive autoreactive T cells in human autoimmune disease. Bieganowska KD, et al. **J Exp Med** 1997 May 5; 185(9):1585–94

Impaired plasma membrane targeting of Grb2–murine son of sevenless (mSOS) complex and differential activation of the Fyn–T cell receptor (TCR)–zeta–Cbl pathway mediate T cell hyporesponsiveness in autoimmune nonobese diabetic mice. Salojin K, et al. **J Exp Med** 1997 Sep 15;186(6):887–97

Reduced incidence and severity of antigen–induced autoimmune diseases in mice lacking interferon regulatory factor–1. Tada Y, et al. **J Exp Med** 1997 Jan 20;185(2):231–8

Autoimmune hepatitis type 2 and hepatitis C virus infection: study of HLA antigens. Jurado A, et al. **J Hepatol** 1997 May;26(5):983–91

Actin is a target antigen of anti–neutrophil cytoplasmic antibodies (ANCA) in autoimmune hepatitis type–1. Orth T, et al. **J Hepatol** 1997 Jan;26(1):37–47

Anomalous expression of costimulatory molecules B7–1, B7–2 and CD28 in primary biliary cirrhosis. Spengler U, et al. **J Hepatol** 1997 Jan;26(1):31–6

Identification of cyclin A as a molecular target of antinuclear antibodies (ANA) in hepatic and non–hepatic autoimmune diseases. Strassburg CP, et al. **J Hepatol** 1996 Dec; 25(6):859–66

Molecular analysis of stimulatory anti–thyrotropin receptor antibodies (TSAbs) involved in Graves' disease. Isolation and reconstruction of antibody genes, and production of monoclonal TSAbs. Akamizu T, et al. **J Immunol** 1996 Oct 1;157(7):3148–52

Changes in cytokine secretion induced by altered peptide ligands of myelin basic protein peptide 85–99. Ausubel LJ, et al. **J Immunol** 1997 Sep 1;159(5):2502–12

The proliferative in vivo activities of lpr double–negative T cells and the primary role of p59fyn in their activation and expansion. Balomenos D, et al. **J Immunol** 1997 Sep 1;159(5):2265–73

Thymic expression of autoantigens correlates with resistance to autoimmune disease. Egwuagu CE, et al. **J Immunol** 1997 Oct 1;159(7):3109–12

Structural and functional analysis of the B cell epitopes recognized by anti–receptor autoantibodies in patients with Chagas' disease. Elies R, et al. **J Immunol** 1996 Nov 1; 157(9):4203–11

Humanized antibodies against the alpha–chain of the IL–2 receptor and against the beta–chain shared by the IL–2 and IL–15 receptors in a monkey uveitis model of autoimmune diseases. Guex–Crosier Y, et al. **J Immunol** 1997 Jan 1;158(1):452–8

IFN–gamma–deficient mice develop experimental autoimmune uveitis in the context of a deviant effector response. Jones LS, et al. **J Immunol** 1997 Jun 15; 158(12):5997–6005

Immunogenicity and immunopathogenicity of an autoimmune epitope are potentiated by increasing MHC binding through residue substitution. Kozhich AT, et al. **J Immunol** 1997 May 1;158(9):4145–51

Identification of rat prostatic steroid–binding protein as a target antigen of experimental autoimmune prostatitis: implications for prostate cancer therapy. Liu KJ, et al. **J Immunol** 1997 Jul 1;159(1):472–80

Nonrheumatoid IgM in human hepatitis C virus–associated type II cryoglobulinemia recognize mimotopes of the CD4–like LAG–3 protein. Mecchia M, et al. **J Immunol** 1996 Oct 15;157(8):3727–36

Induction of blister–causing antibodies by a recombinant full–length, but not the extracellular, domain of the pemphigus vulgaris antigen (desmoglein 3). Memar O, et al. **J Immunol** 1996 Oct 1;157(7):3171–7

alpha beta T cell regulation and CD40 ligand dependence in murine systemic autoimmunity. Peng SL, et al. **J Immunol** 1997 Mar 1;158(5):2464–70

B–cell activation in vitro by helper T cells specific to region alpha 146–162 of Torpedo californica nicotinic acetylcholine receptor. Rosenberg JS, et al. **J Immunol** 1996 Oct 1;157(7):3192–9

Autoantibodies to ribosomal P antigens with immune complex glomerulonephritis in SJL mice treated with pristane. Satoh M, et al. **J Immunol** 1996 Oct 1; 157(7):3200–6

Human anti–nuclear ribonucleoprotein antigen autoimmune sera contain a novel subset of autoantibodies that stabilizes the molecular interaction of U1RNP–C protein with the Sm core proteins. Satoh M, et al. **J Immunol** 1997 May 15;158(10):5017–25

Differential roles for IL–12 in the maintenance of immune responses in infectious versus autoimmune disease. Seder RA, et al. **J Immunol** 1996 Oct 1;157(7):2745–8 (24 ref.)

Intermediate TCR cells in mouse lung: their effector function to induce pneumonitis in mice with autoimmune–like graft–versus–host disease. Watanabe T, et al. **J Immunol** 1997 Jun 15;158(12):5805–14

Human autoreactive and foreign antigen–specific T cells resist apoptosis induced by soluble recombinant CD95 ligand. Zipp F, et al. **J Immunol** 1997 Sep 1;159(5):2108–15

Natural autoantibodies to interferons. Meager A. **J Interferon Cytokine Res** 1997 Jul;17 Suppl 1:S51–3 (26 ref.)

Glutamic acid decarboxylase—gene to antigen to disease. Lernmark A. **J Intern Med** 1996 Nov;240(5):259–77 (85 ref.)

Experimental autoimmune hepatitis in mice following immunization with syngeneic liver proteins. Mihas AA, et al. **J Med** 1995;26(5–6):309–22

T cell vaccination: clinical application in autoimmune diseases. Zhang J, et al. **J Mol Med** 1996 Nov;74(11):653–62 (43 ref.)

Methylprednisolone attenuates interferon–beta induced expression of HLA–DR on monocytes. Crockard AD, et al. **J Neuroimmunol** 1996 Oct;70(1):29–35

A study of human T–cell lines generated from multiple sclerosis patients and controls by stimulation with peptides of myelin basic protein [published erratum appears in J Neuroimmunol 1997 Mar;73(1–2):213] Pender MP, et al. **J Neuroimmunol** 1996 Oct;70(1):65–74

An Epstein Barr virus–related cross reactive autoimmune response in multiple sclerosis in Norway. Vaughan JH, et al. **J Neuroimmunol** 1996 Sep;69(1–2):95–102

Autoantibodies to peripheral nerve glycosphingolipids SPG, SLPG, and SGPG in Guillain–Barré syndrome and chronic inflammatory demyelinating polyneuropathy. Yuki N, et al. **J Neuroimmunol** 1996 Oct;70(1):1–6

Raised antibody titre against conjugated S–nitrosocysteine in IgM paraproteinaemic peripheral, neuropathy: possible role of nitric oxide in pathogenesis [letter] Boullerne AI, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):202–3

Experimental autoimmune myositis in SJL/J mice produced by immunization with syngeneic myosin B fraction. Transfer by both immunoglobulin G and T cells. Matsubara S, et al. **J Neurol Sci** 1996 Dec;144(1–2):171–5

MHC class I–mediated cytotoxicity does not induce apoptosis in muscle fibers nor in inflammatory T cells: studies in patients with polymyositis, dermatomyositis, and inclusion body myositis. Schneider C, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1205–9

Experimental allergic encephalomyelitis: characterization of T lymphocytes that bind myelin basic protein and synapsin. De Santis ML, et al. **J Neurosci Res** 1996 Jan 1;43(1):50–4

Dysregulation of potentially pathogenic self reactivity is crucial for the manifestation of clinical autoimmunity. Kumar V, et al. **J Neurosci Res** 1996 Aug 15;45(4):334–9 (26 ref.)

OX–40 antibody enhances for autoantigen specific V beta 8.2+ T cells within the spinal cord of Lewis rats with autoimmune encephalomyelitis. Weinberg AD, et al. **J Neurosci Res** 1996 Jan 1;43(1):42–9

Asymptomatic autoimmune hepatitis associated with anti–LC–1 autoantibodies. Klein C, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):461–5

Role of the pineal gland and melatonin in the development of autoimmune diabetes in non–obese diabetic mice. Conti A, et al. **J Pineal Res** 1996 Apr;20(3):164–72

Influence of autoimmune ovarian disease pathogenesis on ZP3 contraceptive vaccine design. Lou YH, et al. **J Reprod Fertil Suppl** 1996;50:159–63

Polycystic ovary syndrome. An autoimmune disease? Rojansky N, et al. **J Reprod Med** 1997 Jun;42(6):325–8

Analytical and clinical relationships between human IgG autoantibodies to beta 2 glycoprotein I and anticardiolipin antibodies. El–Kadi HS, et al. **J Rheumatol** 1995 Dec; 22(12):2233–7

HLA typing in a large family with multiple cases of different autoimmune diseases. Sels F, et al. **J Rheumatol** 1997 May; 24(5):856–9

Hypothesis for the pathogenesis of systemic sclerosis. Furst DE, et al. **J Rheumatol Suppl** 1997 May;48:53–7 (74 ref.)

Is there an immunogenetic basis for Peyronie's disease? Leffell MS. **J Urol** 1997 Jan;157(1):295–7

Detection of antinuclear antibodies by indirect immunofluorescence in dog sera: comparison of rat liver tissue and human epithelial–2 cells as antigenic substrate. Hansson H, et al. **J Vet Intern Med** 1996 Jul–Aug; 10(4):199–203

Participation of non–major histocompatibility antigen complex gene in experimental autoimmune uveitis. Yoshikawa K, et al. **Jpn J Ophthalmol** 1995;39(4):347–52

Use of antipolymer antibody assay in recipients of silicone breast implants [see comments] [published erratum appears in Lancet 1997 May 24;349(9064):1558] Tenenbaum SA, et al. **Lancet** 1997 Feb 15;349(9050):449–54. Comment in: Lancet 1997 Apr 19;349(9059):1170. Comment in: Lancet 1997 Apr 19;349(9059):1170–1; discussion 1172–3. Comment in: Lancet 1997 Apr 19;349(9059):1171. Comment in: Lancet 1997 Apr 19;349(9059):1171; discussion 1172–3. Comment in: Lancet 1997 Apr 19;349(9059):1171–2; discussion 1172–3.

Autoimmune phenomena in patients with myelodysplastic syndromes. Enright H, et al. **Leuk Lymphoma** 1997 Feb; 24(5–6):483–9 (33 ref.)

Antineutrophil cytoplasmic autoantibodies in autoimmune liver and inflammatory bowel diseases. Claise C, et al. **Liver** 1996 Feb;16(1):28–34

Clonal accumulation of V beta 5.1–positive cells in the liver of a patient with autoimmune cholangiopathy. Shimizu Y, et al. **Liver** 1997 Feb;17(1):7–12

Clinical connections: assays and assignment. Bell DA, et al. **Lupus** 1997;6(3):305–6 (15 ref.)

Transient neonatal bradycardia without heart block associated with anti–Ro antibodies [letter] Cimaz R, et al. **Lupus** 1997;6(5):487–8

T helper cells driving pathogenic anti–DNA autoantibody production in lupus: nucleosomal epitopes and CD40 ligand signals. Datta SK, et al. **Lupus** 1997;6(3):333–6 (4 ref.)

DNA antibodies focus on the light chain. Diamond B, et al. **Lupus** 1997;6(3):315–6 (2 ref.)

Epilepsy and antiphospholipid antibodies in systemic lupus erythematosus patients [letter; comment] Formiga F, et al. **Lupus** 1997;6(5):486. Comment on: Lupus 1996 Aug;5(4):307–12.

T and B cell recognition of idiotypes of anti–DNA autoantibodies. Gavalchin J, et al. **Lupus** 1997;6(3):337–43 (52 ref.)

Humoral response in spontaneous and experimental autoimmunity to the ribosomal P proteins [letter] Gordon

TP, et al. **Lupus** 1996 Aug;5(4):340–1

The role of antibodies to DNA in systemic lupus erythematosus—a review and introduction to an international workshop on DNA antibodies held in London, May 1996. Isenberg DA, et al. **Lupus** 1997; 6(3):290–304 (146 ref.)

Structural analysis of anti–DNA antibodies. Kalsi JK, et al. **Lupus** 1997;6(3):317–20

Are DNA antibodies actually pathogenic? Naparstek Y, et al. **Lupus** 1997;6(3):307–9 (8 ref.)

Anti–endothelial cell antibodies in systemic autoimmune diseases: prevalence and clinical significance. Navarro M, et al. **Lupus** 1997;6(6):521–6

Association between IgM anticardiolipin antibodies and deep venous thrombosis in patients without systemic lupus erythematosus. Oger E, et al. **Lupus** 1997;6(5):455–61

Antibodies to fibrin–bound tissue–type plasminogen activator in systemic lupus erythematosus are associated with Raynaud's phenomenon and thrombosis. Salazar–Paramo M, et al. **Lupus** 1996 Aug;5(4):275–8

Late development of anti–La/SS–B antibodies in a patient with Sjogren's syndrome and high titer anti–Ro/SS–A antibodies. Satoh M, et al. **Lupus** 1996 Aug;5(4):337–9

Primary antiphospholipid syndrome emerging following thymectomy for myasthenia gravis: additional evidence for the kaleidoscope of autoimmunity [see comments] Shoenfeld Y, et al. **Lupus** 1997;6(5):474–6. Comment in: Lupus 1997 ;6(5):419.

Expression of anti–DNA antibodies. Stevenson FK, et al. **Lupus** 1997;6(3):321–3 (7 ref.)

CD69 to CD3 ratio of peripheral blood mononuclear cells as a marker to monitor systemic lupus erythematosus disease activity. Su CC, et al. **Lupus** 1997;6(5):449–54

Autoimmune aberration in sudden sensorineural hearing loss: association with anti–cardiolipin antibodies. Toubi E, et al. **Lupus** 1997;6(6):540–2

Genetic control of DNA antibody production: focus on the heavy chain. Tsao B, et al. **Lupus** 1997;6(3):310–4 (21 ref.)

Prevalence of 13 autoantibodies and of the 16/6 and related pathogenic idiotypes in 465 patients with systemic lupus erythematosus and their relationship with disease activity. Villarreal GM, et al. **Lupus** 1997;6(5):425–35

Risk for venous thrombosis related to antiphospholipid antibodies in systemic lupus erythematosus—a meta–analysis. Wahl DG, et al. **Lupus** 1997;6(5):467–73

Variable regions of two murine antibodies that bind the SLE associated 16/6 idiotype. Waisman A, et al. **Lupus** 1996 Aug;5(4):279–87

T cells specific for DNA–binding peptides. Wang M, et al. **Lupus** 1997;6(3):349–50 (7 ref.)

Accelerated onset of age–related autoimmune lesions in MRL/+ mice by ovariectomy. Ishimaru N, et al. **Mech Ageing Dev** 1997 Feb;93(1–3):145–56

Molecular, metabolic and immune evidence suggest that systemic autoimmune disease is antigen–mediated. Benke PJ. **Med Hypotheses** 1996 Nov;47(5):337–46 (130 ref.)

Malaria and macrophage function in Africans: a possible link with autoimmune disease? Butcher GA. **Med Hypotheses** 1996 Aug;47(2):97–100

Superantigens as virulence factors in autoimmunity and immunodeficiency diseases. Soos JM, et al. **Med Hypotheses** 1997 Mar;48(3):253–9 (52 ref.)

The existence of antibodies specific for DNA in systemic autoimmune diseases [editorial] Marion TN. **Methods** 1997 Jan;11(1):1–2

Antibodies to GM1 and Gal(beta 1–3)GalNAc at the nodes of Ranvier in human and experimental autoimmune neuropathy. Thomas FP. **Microsc Res Tech** 1996 Aug 15; 34(6):536–43 (124 ref.)

The toxic oil syndrome: an example of an exogenously induced autoimmune reaction. Toxic oil syndrome. Bell SA. **Mol Biol Rep** 1996;23(3–4):261–3 (21 ref.)

Autoimmune diseases: nuclear autoantigens can be found at the cell–surface. Jordan P, et al. **Mol Biol Rep** 1995–96; 22(1):63–6 (49 ref.)

Cytochrome P450 enzymes and UDP–glucuronosyltransferases as hepatocellular autoantigens. Obermayer–Straub P, et al. **Mol Biol Rep** 1996;23(3–4):235–42 (59 ref.)

Autoimmunity in heart disease: mechanisms and genetic susceptibility. Malkiel S, et al. **Mol Med Today** 1996 Aug; 2(8):336–42

Immunomodulation and remyelination: two aspects of human polyclonal immunoglobulin treatment in immune mediated neuropathies? van Schaik IN, et al. **Mult Scler** 1997 Apr; 3(2):98–104 (91 ref.)

Costimulatory B7 molecules in the pathogenesis of infectious and autoimmune diseases. Reiser H, et al. **N Engl J Med** 1996 Oct 31;335(18):1369–77 (69 ref.)

Phenotypical and functional analyses of natural killer cells from low NK activity individuals among healthy and patient populations. Nagao F, et al. **Nat Immun** 1995 Sep; 14(5–6):225–33

Molecular basis of type II collagen autoimmune disease: observations of arthritis, auricular chondritis and tympanitis in mice. Fujiyoshi T, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jul–Aug; 59(4):215–29

AMA–negative immunocholangitis and chronic pancreatitis: a case report [letter] Gates LK Jr. **Pancreas** 1997 Apr; 14(3):311–3

The clinical spectrum of postpartum thyroid disease. Lazarus JH, et al. **QJM** 1996 Jun;89(6):429–35

Antibody response to nitrogenase–positive and –negative Klebsiella pneumoniae strains in juvenile–onset ankylosing spondylitis patients and their first degree relatives: lack of differential recognition of the bacterial nitrogenase. Parra–Campos V, et al. **Rev Latinoam Microbiol** 1996 Apr–Jun;38(2):121–7

Major histocompatibility complex markers and disease heterogeneity in one hundred eight patients with systemic onset juvenile chronic arthritis. Desaymard C, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):9–16

Agalactosyl IgG and materno–fetal transmission of autoimmune neonatal lupus. Pilkington C, et al. **Rheumatol Int** 1996;16(3):89–94

Smoking and immunity: an additional player in the mosaic of autoimmunity. George J, et al. **Scand J Immunol** 1997 Jan;45(1):1–6 (51 ref.)

Antibody reactivity against thyroid peroxidase and myeloperoxidase in autoimmune thyroiditis and systemic vasculitis. Haapala AM, et al. **Scand J Immunol** 1997 Jul; 46(1):78–85

Altered peptide ligands of a myasthenogenic epitope as modulators of specific T–cell responses. Kirshner SL, et al. **Scand J Immunol** 1996 Nov;44(5):512–21

Detection of alterations in the levels of neuropeptides and salivary gland responses in the non–obese diabetic mouse model for autoimmune sialoadenitis. Yamamoto H, et al. **Scand J Immunol** 1997 Jan;45(1):55–61

Neonatal lupus: bedside to bench and back [editorial] Buyon JP. **Scand J Rheumatol** 1996;25(5):271–6 (49 ref.)

Induction of autoimmune diabetes by oral administration of autoantigen. Blanas E, et al. **Science** 1996 Dec 6; 274(5293):1707–9

Anti–heat–shock protein antibodies in rheumatic and autoimmune diseases. Tishler M, et al. **Semin Arthritis Rheum** 1996 Oct;26(2):558–63 (25 ref.)

Nuclear envelope protein autoantibodies in primary biliary cirrhosis. Courvalin JC, et al. **Semin Liver Dis** 1997 Feb; 17(1):79–90 (88 ref.)

Antimitochondrial antibodies in primary biliary cirrhosis. Leung PS, et al. **Semin Liver Dis** 1997 Feb;17(1):61–9 (72 ref.)

Autoantibodies against "nuclear dots" in primary biliary cirrhosis. Szostecki C, et al. **Semin Liver Dis** 1997 Feb; 17(1):71–8 (72 ref.)

The pathogenesis of the antiphospholipid syndrome [letter; comment] Greaves M, et al. **Thromb Haemost** 1996 Nov; 76(5):817–8. Comment on: Thromb Haemost 1996 Apr;75(4):536–41.

Binding of immunoglobulin G from patients with autoimmune thyroid disease to rat sodium–iodide symporter peptides: evidence for the iodide transporter as an autoantigen. Morris JC, et al. **Thyroid** 1997 Aug; 7(4):527–34

Antibodies to myeloperoxidase in propylthiouracil–induced autoimmune disease in the cat. Waldhauser L, et al. **Toxicology** 1996 Dec 2;114(2):155–62

Heterogeneous V beta gene usage in mercury–induced immune disorders in rats. Fillion J, et al. **Transplant Proc** 1997 May;29(3):1673–4

Effect of in vivo rapamycin treatment on de novo T–cell development in relation to induction of autoimmune–like immunopathology in the rat. Damoiseaux JG, et al. **Transplantation** 1996 Oct 15;62(7):994–1001

Primary nonfunction of islet grafts in autoimmune diabetic nonobese diabetic mice is prevented by treatment with interleukin–4 and interleukin–10. Faust A, et al. **Transplantation** 1996 Sep 15;62(5):648–52

Autoantibodies—what do they recognize? Tan EM. **Verh Dtsch Ges Pathol** 1996;80:1–11 (29 ref.)

Platelet antibody detection in pediatric immune thrombocytopenic purpura: evaluation of three screening methods. Biglino P, et al. **Vox Sang** 1997;72(4):242–6

Changes in local immune functions in Mooren's ulcer. Wang Z, et al. **Yen Ko Hsueh Pao** 1996 Mar;12(1):33–5

Antineutrophil nuclear antibodies (ANNA) in primary biliary cirrhosis: their prevalence and antigen specificity. Orth T, et al. **Z Gastroenterol** 1997 Feb;35(2):113–21

[Elective phagocytosis of polynuclear neutrophils caused by medullary macrophages and autoimmune neutropenia in children] Gbadoe AD, et al. **Arch Pediatr** 1997 May; 4(5):398–405 (Eng. Abstr.) **(Fre)**

[Prenatal management of fetuses with alloimmune thrombocytopenia] Kroll H, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:150–5 (Eng. Abstr.) **(Ger)**

[Severe neonatal alloimmune thrombocytopenia with delayed antibody detection] Schabel A, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:156–9 (Eng. Abstr.) **(Ger)**

Immunodominant autoepitopes. Mechanisms of autoantibody induction in autoimmune diseases?] Dörner T, et al. **Dtsch Med Wochenschr** 1996 Oct 11;121(41):1267–70 (18 ref.) **(Ger)**

[The demonstration and specificity of autoreactive T–lymphocytes in type–1 diabetes] Lohmann T, et al. **Dtsch Med Wochenschr** 1997 Jun 6;122(23):737–42 (Eng. Abstr.) **(Ger)**

[Nephrology update—IV. Rapidly progressing glomerulonephritis] Fünfstück R, et al. **Med Klin** 1996 Oct 15;91(10):632–9 (120 ref.) **(Ger)**

[Pathogenesis of rheumatoid arthritis] Geiler T, et al. **Med Klin** 1997 Jun 15;92(6):347–53 (85 ref.) (Eng. Abstr.) **(Ger)**

[Multiple sclerosis] Offenhäusser M, et al. **Med Monatsschr Pharm** 1997 Jun;20(6):149–57 (23 ref.) **(Ger)**

[Autoantibody pattern in scleritis and episcleritis] Zierhut M, et al. **Ophthalmologe** 1997 Feb;94(2):157–60 (Eng. Abstr.) **(Ger)**

[Cellular adhesion molecules and components of the extracellular matrix as target structures of autoimmunity] Moll R, et al. **Pathologe** 1996 Jul;17(4):254–61 (50 ref.) (Eng. Abstr.) **(Ger)**

[The absence of autoantibodies does not rule out autoimmune hepatitis] Schmid PA, et al. **Schweiz Med Wochenschr** 1996 Nov 30;126(48):2090–3 (Eng. Abstr.) **(Ger)**

[Autoimmune gastritis in its various stages] Eidt S, et al. **Verh Dtsch Ges Pathol** 1996;80:196–8 (Eng. Abstr.) **(Ger)**

[Characterization of inflammatory infiltrates in autoimmune cholangitis: an immunohistochemical study] Kaserer K, et al. **Verh Dtsch Ges Pathol** 1996;80:272–5 (Eng. Abstr.) **(Ger)**

[Pathogenesis of multiple sclerosis and other neural autoimmune diseases] Lassmann H. **Verh Dtsch Ges Pathol** 1996;80:109–15 (37 ref.) (Eng. Abstr.) **(Ger)**

[Cell adhesion molecules and extracellular matrix components as target structures of autoimmunity] Moll R, et al. **Verh Dtsch Ges Pathol** 1996;80:67–79 (51 ref.) (Eng. Abstr.) **(Ger)**

[Carcinoid tumors of the stomach in atrophic autoimmune gastritis: classification, differential diagnosis and prognosis] Rappel S, et al. **Verh Dtsch Ges Pathol** 1996;80:199–207 (Eng. Abstr.) **(Ger)**

[Morphology and clinical features of autoimmune thyroid diseases] Schröder S, et al. **Verh Dtsch Ges Pathol** 1996; 80:80–92 (50 ref.) (Eng. Abstr.) **(Ger)**

[Clonal B–cell reactions and prelymphoma in autoimmune diseases] Tiemann M, et al. **Verh Dtsch Ges Pathol** 1996; 80:169–77 (Eng. Abstr.) **(Ger)**

[Serotonin antibodies in fibromyalgia syndrome—expression of a neuroendocrinologic autoimmune disease?] Neeck G, et al. **Z Rheumatol** 1996 Jan–Feb;55(1):63–5; 63,66 disc 66–8 **(Ger)**

[Analysis of lymphocyte–T receptor in autoimmune diseases (editorial)] Lunardi C, et al. **Recenti Prog Med** 1997 Feb; 88(2):82–4 **(Ita)**

[CD5 positive b–lymphocytes in autoimmunity: possible role in Graves' disease] Afeltra A, et al. **Riv Eur Sci Med Farmacol** 1995 Sep–Oct;17(5):167–74 (64 ref.) (Eng. Abstr.) **(Ita)**

[Intra–hepatic infiltrating T cell clonality analysis in patients with autoimmune hepatitis and the clinical significance] Takahashi H, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):708–12 (9 ref.) **(Jpn)**

[Abnormality in B cell apoptosis in mice with spontaneous systemic autoimmune disease] Tsubata T. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):603–4 (10 ref.) **(Jpn)**

[Stress proteins and autoimmune diseases] Minota S. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1048–54 (10 ref.) **(Jpn)**

[An imbalance between Th1 and Th2–like cytokines in patients with autoimmune diseases—differential diagnosis between Th1 dominant autoimmune diseases and Th2 dominant autoimmune diseases] Ishida H, et al. **Nippon Rinsho** 1997 Jun;55(6):1438–43 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Manipulation of costimulatory pathways in autoimmune disease] Kaneko H, et al. **Nippon Rinsho** 1997 Jun; 55(6):1531–6 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of B cell autoepitopes and mechanisms for autoantibody production in autoimmune diseases] Kato T. **Nippon Rinsho** 1997 Jun;55(6):1462–7 (17 ref.) (Eng. Abstr.) **(Jpn)**

[The mechanism of autoantibody production in systemic autoimmune diseases] Misaki Y, et al. **Nippon Rinsho** 1997 Jun;55(6):1468–74 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Detection of antigen specific T cell clonality in autoimmune diseases and epitope analysis of autoantigen–reactive T cells] Miyazaki Y, et al. **Nippon Rinsho** 1997 Jun; 55(6):1403–9 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Molecular mimicry and mechanisms of autoantibody production] Miyazawa M. **Nippon Rinsho** 1997 Jun; 55(6):1370–6 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Binding–peptide motifs of HLA class II molecules susceptible to autoimmune diseases] Nishimura Y. **Nippon Rinsho** 1997 Jun;55(6):1384–96 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Molecular immunology on autoimmune disease] Sasazuki T, et al. **Nippon Rinsho** 1997 Jun;55(6):1327–30 (10 ref.) **(Jpn)**

[TCR repertoire of autoreactive T cells in autoimmune disorders] Sumida T, et al. **Nippon Rinsho** 1997 Jun; 55(6):1410–8 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Mechanisms for B cell tolerance and their defects in systemic autoimmune diseases] Tsubata T. **Nippon Rinsho** 1997 Jun; 55(6):1351–5 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Autoimmune diseases and stress proteins] Minota S. **Rinsho Byori** 1997 Jan;45(1):19–26 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Immunologic tests in patients with idiopathic uveitis—preliminary reports] Kubicka-Trząska A, et al. **Klin Oczna** 1996 Mar;98(3):209-12 (Eng. Abstr.) **(Pol)**

[The clinico-immunological characteristics of myasthenia patients] Shevniuk MM, et al. **Lik Sprava** 1996 Jul-Sep; (7-9):81-3 (Eng. Abstr.) **(Rus)**

[Development of adjuvant arthritis in ozone-sensitized rats] Sapronov NS, et al. **Patol Fiziol Eksp Ter** 1997 Jul-Sep; (3):35-7 (Eng. Abstr.) **(Rus)**

[A comparative evaluation of the autoimmune processes in inflammatory periodontal diseases] Orekhova LIu, et al. **Stomatologiia (Mosk)** 1996;Spec No:71-2 **(Rus)**

[Antiendothelial antibodies in systemic lupus erythematosus in men: the connection with kidney involvement and the antiphospholipid syndrome] Nasonov EL, et al. **Ter Arkh** 1996;68(6):46-9 **(Rus)**

[The clinico-immunological validation of a differentiated approach to the use of corticosteroids in treating S-dependent uveoretinitis] Slepova OS, et al. **Vestn Oftalmol** 1996 Apr-Jun;112(2):45-7 (Eng. Abstr.) **(Rus)**

[Immunopathology in craniocerebral trauma] Ermekov ZhM. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr-Jun; (2):23-5 (Eng. Abstr.) **(Rus)**

[Immunogenetic mechanisms in autoimmune processes: disorders of immune regulatory mechanisms, genetic determination of autoimmunity, effector mechanisms of autoimmune processes and their therapy] Buc M. **Bratisl Lek Listy** 1996 Nov;97(11):660-8 (55 ref.) (Eng. Abstr.) **(Slo)**

[Immunopathogenesis of myasthenia gravis and the Lambert-Eaton myasthenic syndrome] Lisý L. **Bratisl Lek Listy** 1997 Apr;98(4):217-20 (Eng. Abstr.) **(Slo)**

[Multiple autoimmune syndromes] Schüller A. **An R Acad Nac Med (Madr)** 1996;113(1):15-6 **(Spa)**

[Autoimmune hypoglycemia syndrome with specific anti-human insulin antibodies] Cresto JC, et al. **Medicina (B Aires)** 1996;56(3):279-83 (Eng. Abstr.) **(Spa)**

[Hyperprolactinemia and autoimmunity] Compañ González DA, et al. **Rev Alerg Mex** 1996 Sep-Oct;43(5):128-32 (Eng. Abstr.) **(Spa)**

[Interpretation, applications, and limitations of autoantibodies in chronic autoimmune hepatitis] Díaz Jouanen E. **Rev Gastroenterol Mex** 1995 Oct-Dec;60(4 Suppl 2):S63-4 **(Spa)**

[Allo- and autoantibody in a case of autoimmune hemolytic anemia associated with a myelodysplastic syndrome (letter)] Iturbe T, et al. **Sangre (Barc)** 1996 Oct;41(5):403-4 **(Spa)**

METABOLISM

In situ demonstration of T cell activation and elimination in the peripheral nervous system during experimental autoimmune neuritis in the Lewis rat. Zetti UK, et al. **Acta Neuropathol (Berl)** 1996;91(4):360-7

Autoimmunity to the thyroid stimulating hormone receptor. Patibandla SA, et al. **Adv Neuroimmunol** 1996;6(4):347-57 (57 ref.)

Dysregulated cytokine expression in vivo in prediseased and diseased autoimmune-prone MRL mice. Fitzpatrick JM, et al. **Autoimmunity** 1996;23(4):217-29

Intrastructural help in diversification of humoral autoimmune responses [editorial] Fatenejad S, et al. **Clin Exp Immunol** 1996 Oct;106(1):1-4 (35 ref.)

Up-regulation of the granulocyte adhesion molecule Mac-1 by autoantibodies in autoimmune vasculitis. Johnson PA, et al. **Clin Exp Immunol** 1997 Mar;107(3):513-9

Expression of CD28, CTLA4, CD80, and CD86 molecules in patients with autoimmune rheumatic diseases: implications for immunotherapy [editorial; comment] Sfikakis PP, et al. **Clin Immunol Immunopathol** 1997 Jun; 83(3):195-8. Comment on: Clin Immunol Immunopathol 1997 Jun;83(3):199-204.

The potential biological and clinical significance of the soluble tumor necrosis factor receptors. Aderka D. **Cytokine Growth Factor Rev** 1996 Oct;7(3):231-40 (106 ref.)

The immunology of Eta-1/osteopontin. Weber GF, et al. **Cytokine Growth Factor Rev** 1996 Oct;7(3):241-8 (50 ref.)

Infection, autoimmunity and autoimmune disease. Feige U, et al. **EXS** 1996;77:359-73 (69 ref.)

Analysis of mononuclear cell infiltrate and cytokine production in murine autoimmune gastritis. Martinelli TM, et al. **Gastroenterology** 1996 Jun;110(6):1791-802

Definition of an extended MHC class II-peptide binding motif for the autoimmune disease-associated Lewis rat RT1.BL molecule. Wauben MH, et al. **Int Immunol** 1997 Feb;9(2):281-90

Automated multiple peptide synthesis: improvements in obtaining quality peptides. Luu T, et al. **Int J Pept Protein Res** 1996 Jan-Feb;47(1-2):91-7

Peroxynitrite and oxidative damage in experimental autoimmune uveitis. Wu GS, et al. **Invest Ophthalmol Vis Sci** 1997 Jun;38(7):1333-9

Renal expression of monocyte chemoattractant protein-1 in lupus autoimmune mice. Zoja C, et al. **J Am Soc Nephrol** 1997 May;8(5):720-9

Detection of IL-12, IL-13, and IL-15 messenger ribonucleic acid in the thyroid of patients with autoimmune thyroid disease. Ajjan RA, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):666-9

Characteristic T helper 2 T cell cytokine abnormalities in autoimmune lymphoproliferative syndrome, a syndrome marked by defective apoptosis and humoral autoimmunity. Fuss IJ, et al. **J Immunol** 1997 Feb 15;158(4):1912-8

Characterization of cytokine and iNOS mRNA expression in situ during the course of experimental autoimmune myocarditis in rats. Okura Y, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):491-502

Dosing implications of a clinical interaction between grapefruit juice and cyclosporine and metabolite concentrations in patients with autoimmune diseases. Ioannides-Demos LL, et al. **J Rheumatol** 1997 Jan; 24(1):49-54

Neurobehavioral alterations in autoimmune mice. Sakić B, et al. **Neurosci Biobehav Rev** 1997 May;21(3):327-40 (230 ref.)

Environmental influences on fatty acid composition of membranes from autoimmune MRL lpr/lpr mice. Hackshaw KV, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Apr; 54(4):297-302

[A study on changes of levels of products of lipid peroxidation in retina of rat with experimental autoimmune uveoretinitis] Sun X, et al. **Chung Hua Yen Ko Tsa Chih** 1996 Mar;32(2):140-2 (Eng. Abstr.) **(Chi)**

[Effect of L-lysine-alpha-oxidase on the synthesis of cell proteins, targets of autoimmune pathology in HIV infection] Berezov TT, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):36-8 **(Rus)**

[Nerve tissue-specific proteins in the assessment of the permeability of the hemato-encephalic barrier in comatose states in children] Badalian LO, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(1):41-6 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Bacterial virulence antigens and the pathogenesis of autoimmune thyroid diseases (AITD). Wenzel BE, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:75-8 (33 ref.)

More on PANDAS -letter- Weiss M, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1163-5

Chronic health effects of microbial foodborne disease. Bunning VK, et al. **World Health Stat Q** 1997;50(1-2):51-6 (45 ref.)

MORTALITY

Survival up to 5 and 10 years of mexican pediatric patients with systemic lupus erythematosus. Overhaul of 23 years experience. Huicochea Grobet ZL, et al. **Allergol Immunopathol (Madr)** 1996 Jan-Feb;24(1):36-8

Intercellular adhesion molecule-1 deficiency protects MRL/MpJ-Fas(lpr) mice from early lethality. Bullard DC, et al. **J Immunol** 1997 Aug 15;159(4):2058-67

Pre-existing autoimmune disease in patients with long-term survival after allogeneic bone marrow transplantation. Nelson JL, et al. **J Rheumatol Suppl** 1997 May;48:23-9

PATHOLOGY

Active fulminant myocarditis characterized by T-lymphocytes expressing the gamma-delta T-cell receptor: a new disease entity? Eck M, et al. **Am J Surg Pathol** 1997 Sep;21(9):1109-12

Isolation and characterization of single anti-U1A-specific B cells from autoimmune patients. de Wildt RM, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:440-2

A novel method for isolating mononuclear ceils from the stomachs of mice with experimental autoimmune gastritis. Alderuccio F, et al. **Autoimmunity** 1995;21(3):215-21

Dysregulated cytokine expression in vivo in prediseased and diseased autoimmune-prone MRL mice. Fitzpatrick JM, et al. **Autoimmunity** 1996;23(4):217-29

Experimental graft versus host disease in the (BN x LEW) F1 rat hybrid as a model for autoimmune disease. Study of early adenitis in lacrimal and salivary glands. Peszkowski MJ, et al. **Autoimmunity** 1996;24(2):101-11

Conversion of pemphigoid gestationis to bullous pemphigoid—two refractory cases highlighting this association. Jenkins RE, et al. **Br J Dermatol** 1996 Oct; 135(4):595-8

An observation on otoacoustic emission and ultrastructure of cochlea in experimental autoimmune inner ear disease. Zou J, et al. **Chin Med J (Engl)** 1996 Aug;109(8):639-44

Nitric oxide contributes to the progression of myocardial damage in experimental autoimmune myocarditis in rats. Ishiyama S, et al. **Circulation** 1997 Jan 21;95(2):489-96

Autoimmune response in chronic ongoing myocarditis demonstrated by heterotopic cardiac transplantation in mice. Nakamura H, et al. **Circulation** 1996 Dec 15; 94(12):3348-54

High incidence of autoimmune dacryoadenitis in male non-obese diabetic (NOD) mice depending on sex steroid. Takahashi M, et al. **Clin Exp Immunol** 1997 Sep; 109(3):555-61

Cyclosporine A shows immunosuppressor activity on T lymphocytes from the peripheral blood and synovial fluid of patients with autoimmune arthritis. Guillen C, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):145-53

Limbal conjunctival Langerhans cell density in ocular cicatricial pemphigoid: an indirect immunofluorescence study on Dispase-split conjunctiva. Bodaghi B, et al. **Curr Eye Res** 1997 Aug;16(8):820-4

Angiographic abnormalities of experimental autoimmune uveoretinitis. Howe LJ, et al. **Curr Eye Res** 1996 Dec; 15(12):1149-55

Cellular and humoral autoimmunity in insulin-dependent diabetes mellitus. Scherbaum WA, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:88-94 (68 ref.)

Analysis of mononuclear cell infiltrate and cytokine production in murine autoimmune gastritis. Martinelli TM, et al. **Gastroenterology** 1996 Jun;110(6):1791-802

A novel histological lesion in glucocorticoid-responsive chronic hepatitis. Pratt DS, et al. **Gastroenterology** 1997 Aug;113(2):664-8

Non-alcoholic duct destructive chronic pancreatitis. Ectors N, et al. **Gut** 1997 Aug;41(2):263-8

Autoimmune hepatitis: a histological variant associated with prominent centrilobular necrosis. Te HS, et al. **Gut** 1997 Aug;41(2):269-71

IL-4-induced immune deviation as antigen-specific therapy for inflammatory autoimmune disease. Röcken M, et al. **Immunol Today** 1996 May;17(5):225-31 (80 ref.)

Wegener's granulomatosis with dural involvement as the initial clinical manifestation. Shiotani A, et al. **Intern Med** 1997 Jul;36(7):514-8

Clinical and serologic manifestations of autoimmune disease in MRL-lpr/lpr mice lacking nitric oxide synthase type 2. Gilkeson GS, et al. **J Exp Med** 1997 Aug 4;186(3):365-73

Animal model and in vitro studies of anti neurofilament antibodies mediated neurodegeneration in Alzheimer's disease. Oron L, et al. **J Neural Transm Suppl** 1997;49:77-84 (13 ref.)

Multiple sclerosis: from a myelin point of view. Boccaccio GL, et al. **J Neurosci Res** 1996 Sep 15;45(6):647-54 (87 ref.)

Blood-retinal barrier (BRB) breakdown in experimental autoimmune uveoretinitis: comparison with vascular endothelial growth factor, tumor necrosis factor alpha, and interleukin-1beta-mediated breakdown. Luna JD, et al. **J Neurosci Res** 1997 Aug 1;49(3):268-80

Experimental melanin-protein induced uveitis (EMIU) is the sole type of uveitis evoked by a diversity of ocular melanin preparations and melanin-derived soluble polypeptides. Broekhuyse RM, et al. **Jpn J Ophthalmol** 1996;40(4):459-68

Transplantation of systemic sclerosis (SSc) skin grafts into severe combined immunodeficient mice: increased presence of SSc leukocytes in SSc skin grafts and autoantibody production following autologous leukocyte transfer. Kräling BM, et al. **Pathobiology** 1996;64(2):99-114

Autoimmune cholangitis syndrome with a bias towards primary biliary cirrhosis. Omagari K, et al. **Pathology** 1996 Aug;28(3):255-8

Maternal floor infarction in autoimmune disease: two cases. Bendon RW, et al. **Pediatr Pathol Lab Med** 1996 Mar-Apr; 16(2):293-7

Cytokines in the ovary: pathophysiology and potential for pharmacological intervention. Norman RJ, et al. **Pharmacol Ther** 1996;69(3):219-36 (166 ref.)

Apoptosis II: Apoptosis in the pathogenesis and treatment of diseases. Moldoveanu E, et al. **Rom J Morphol Embryol** 1996 Jan-Jun;42(1-2):41-51 (37 ref.)

Histopathology of primary biliary cirrhosis with emphasis on expression of adhesion molecules. Nakanuma Y, et al. **Semin Liver Dis** 1997 Feb;17(1):35-47 (77 ref.)

Histomorphological aspects of the development of thyroid autoimmune diseases: consequences for our understanding of endocrine ophthalmopathy. Delemarre FG, et al. **Thyroid** 1996 Aug;6(4):369-77 (62 ref.)

T-cell apoptosis in autoimmune diseases: termination of inflammation in the nervous system and other sites with specialized immune-defense mechanisms. Gold R, et al. **Trends Neurosci** 1997 Sep;20(9):399-404 (64 ref.)

Silicone breast implants: pathology. Raso DS, et al. **Ultrastruct Pathol** 1997 May-Jun;21(3):263-71 (46 ref.)

Experimental autoimmune cystitis in the Lewis rat: a potential animal model for interstitial cystitis. Luber-Narod J, et al. **Urol Res** 1996;24(6):367-73

Murine autoimmune gastritis and the gastric H,K-ATPase: insights from a new model and autoantibody detection system. Claeys D, et al. **Verh Dtsch Ges Pathol** 1996; 80:191-5

[Dysmegakaryocytopoiesis and thrombopoiesis in autoimmune thrombocytopenias] Bellucci S. **C R Seances Soc Biol Fil** 1996;190(5-6):541-8 (25 ref.) (Eng. Abstr.) **(Fre)**

[Orbital myopathy in metastatic malignant paraganglioma: a paraneoplastic syndrome?] Spraul CW, et al. **Klin Monatsbl Augenheilkd** 1996 Aug-Sep;209(2-3):153-7 (Eng. Abstr.) **(Ger)**

[Autoimmune gastritis in its various stages] Eidt S, et al. **Verh Dtsch Ges Pathol** 1996;80:196-8 (Eng. Abstr.) **(Ger)**

[Characterization of inflammatory infiltrates in autoimmune cholangitis: an immunohistochemical study] Kaserer K, et al. **Verh Dtsch Ges Pathol** 1996;80:272-5 (Eng. Abstr.) **(Ger)**

[Lymphocytic gastritis: autoimmune disease or variant of Helicobacter gastritis?] Kushima R, et al. **Verh Dtsch Ges Pathol** 1996;80:208-11 (Eng. Abstr.) **(Ger)**

AUTOIMMUNE DISEASES

[Pathogenesis of multiple sclerosis and other neural autoimmune diseases] Lassmann H. **Verh Dtsch Ges Pathol** 1996;80:109–15 (37 ref.) (Eng. Abstr.) **(Ger)**

[Cell adhesion molecules and extracellular matrix components as target structures of autoimmunity] Moll R, et al. **Verh Dtsch Ges Pathol** 1996;80:67–79 (51 ref.) (Eng. Abstr.) **(Ger)**

[Carcinoid tumors of the stomach in atrophic autoimmune gastritis: classification, differential diagnosis and prognosis] Rappel S, et al. **Verh Dtsch Ges Pathol** 1996;80:199–207 (Eng. Abstr.) **(Ger)**

[Autoimmunopathic lymphocytic hypophysitis] Saeger W. **Verh Dtsch Ges Pathol** 1996;80:324 **(Ger)**

[Morphology and clinical features of autoimmune thyroid diseases] Schröder S, et al. **Verh Dtsch Ges Pathol** 1996; 80:80–92 (50 ref.) (Eng. Abstr.) **(Ger)**

[Metaplasia and dysplasia of thymus gland epithelium] Galil-Ogly GA, et al. **Arkh Patol** 1996 Jul-Aug;58(4):18–21 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

The hypothalamic-pituitary-adrenal axis in autoimmunity. Harbuz MS, et al. **Ann N Y Acad Sci** 1997 Aug 14; 823:214–24 (47 ref.)

Interleukin-12 gene expression mediates the accelerating effect of cyclophosphamide in autoimmune disease. Rothe H, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:397–9

Role of sex hormones in autoimmune disease: comment on the article by Nelson [letter] Steinberg AD. **Arthritis Rheum** 1996 Oct;39(10):1766–7

Organ-specific disease provoked by systemic autoimmunity. Kouskoff V, et al. **Cell** 1996 Nov 29;87(5):811–22

Annexins in cancer and autoimmune diseases. Bastian BC. **Cell Mol Life Sci** 1997 Jun;53(6):554–6 (44 ref.)

Short-term hemodynamic effects of immunoadsorption in dilated cardiomyopathy [see comments] Dörffel WV, et al. **Circulation** 1997 Apr 15;95(8):1994–7. Comment in: Circulation 1997 Apr 15;95(8):1979–80.

Rasmussen's encephalitis: an autoimmune disorder? Andrews PI, et al. **Curr Opin Neurol** 1996 Apr;9(2):141–5

Decreased auditory function in the C3H/lpr autoimmune disease mouse. Trune DR, et al. **Hear Res** 1996 May; 95(1–2):57–62

Spontaneous resolution of a pituitary mass: probable lymphocytic hypophysitis. Menon PS, et al. **J Assoc Physicians India** 1996 Sep;44(9):653–5 (20 ref.)

The natural history of disease expression in CD4 and CD8 gene-deleted New Zealand black (NZB) mice. Chen SY, et al. **J Immunol** 1996 Sep 15;157(6):2676–84

The CD28–B7 costimulatory pathway and its role in autoimmune disease. Daikh D, et al. **J Leukoc Biol** 1997 Aug;62(2):156–62 (80 ref.)

Animal model and in vitro studies of anti neurofilament antibodies mediated neurodegeneration in Alzheimer's disease. Oron L, et al. **J Neural Transm Suppl** 1997;49:77–84 (13 ref.)

Dysregulation of potentially pathogenic self reactivity is crucial for the manifestation of clinical autoimmunity. Kumar V, et al. **J Neurosci Res** 1996 Aug 15;45(4):334–9 (26 ref.)

HTLV-I env-pX transgenic rats: prototype animal model for collagen vascular diseases. Yamazaki H, et al. **Leukemia** 1997 Apr;11 Suppl 3:258–9

Corticotropin-releasing factor receptors: physiology, pharmacology, biochemistry and role in central nervous system and immune disorders. De Souza EB. **Psychoneuroendocrinology** 1995;20(8):789–819 (144 ref.)

Effector mechanisms in demyelinating neuropathies. Hartung HP, et al. **Rev Neurol (Paris)** 1996 May;152(5):320–7 (96 ref.)

Apoptosis in autoimmune diseases. Klimiuk PA, et al. **Rocz Akad Med Bialymst** 1995;40(2):227–32 (36 ref.)

Adhesion molecules in autoimmune disease. McMurray RW. **Semin Arthritis Rheum** 1996 Feb;25(4):215–33 (185 ref.)

The clinical expression of primary biliary cirrhosis. Heathcote J. **Semin Liver Dis** 1997 Feb;17(1):23–33 (86 ref.)

The nature of autoimmune disease. Mackay IR, et al. **Semin Liver Dis** 1997 Feb;17(1):3–11 (46 ref.)

Experimental autoimmune cystitis in the Lewis rat: a potential animal model for interstitial cystitis. Luber-Narod J, et al. **Urol Res** 1996;24(6):367–73

Autoimmune hepatitis in children. Raghuveera AL, et al. **W V Med J** 1996 Nov-Dec;92(6):316–9

[CD95 (APO-1/Fas) and CD95-ligand (CD95L). Implications of these apoptosis mediating receptor/ligand systems in the pathogenesis of autoimmune diseases] Möller P, et al. **Verh Dtsch Ges Pathol** 1996;80:12–20 (38 ref.) (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Immunomodulatory effects of linomide in animals immunized with immunopathogenic retinal antigens: dissociation between different immune functions. Shirkey BL, et al. **Clin Exp Immunol** 1997 Jun;108(3):539–44

Oral tolerance in a murine model of relapsing experimental autoimmune uveoretinitis (EAU): induction of protective tolerance in primed animals. Thurau SR, et al. **Clin Exp Immunol** 1997 Aug;109(2):370–6

Newborn screening for HLA markers associated with IDDM: diabetes autoimmunity study in the young (DAISY). Rewers M, et al. **Diabetologia** 1996 Jul; 39(7):807–12

Pharmacological approaches to the prevention of autoimmune diabetes. Winter WE, et al. **Drugs** 1997 Jun; 53(6):943–56 (118 ref.)

Effects of altered prenatal hormonal environment on expression of autoimmune disease in NZB/NZW mice. Walker SE, et al. **Environ Health Perspect** 1996 Aug;104 Suppl 4:815–21

Prevention of experimental autoimmune uveoretinitis by monoclonal antibody to interleukin-12. Yokoi H, et al. **Eur J Immunol** 1997 Mar;27(3):641–6

Specific and long-lasting suppression of rat adjuvant arthritis by low-dose Mycobacterium butyricum. Conforti A, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):241–7

Synergism between long-acting bromocryptine microcapsules and cyclosporine A in the prevention of various autoimmune diseases in rats. Neidhart M. **Experientia** 1996 Sep 15;52(9):892–9

Suppression of actively induced experimental autoimmune uveoretinitis by CD4+ T cells. Uchio E, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Feb;235(2):97–102

Does complement component C4A protect from autoimmune disease? [letter; comment] Beurskens FJ, et al. **Immunol Today** 1997 Apr;18(4):199. Comment on: Immunol Today 1996 Mar;17(3):105.

Diabetes-prone NOD mice are resistant to Mycobacterium avium and the infection prevents autoimmune disease. Brás A, et al. **Immunology** 1996 Sep;89(1):20–5

Suppression of murine collagen-induced arthritis by nasal administration of collagen. Myers LK, et al. **Immunology** 1997 Feb;90(2):161–4

Peptide-mediated suppression of experimental autoimmune uveoretinitis in mice: development of a peptide vaccine. Kezuka T, et al. **Int Immunol** 1996 Aug;8(8):1229–35

Vesnarinone inhibits immune-mediated but not Fas (CD95) agonist-mediated hepatic injury. Lazarus DD, et al. **Int J Immunopharmacol** 1997 Jan;19(1):49–58

Anti-tumor necrosis factor alpha therapy suppresses the induction of experimental autoimmune uveoretinitis in mice by inhibiting antigen priming. Sartani G, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2211–8

VCAM-1/alpha 4-integrin adhesion pathway: therapeutic target for allergic inflammatory disorders. Foster CA. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S270–7 (86 ref.)

Anti-CD40 ligand antibody treatment prevents the development of lupus-like nephritis in a subset of New Zealand black x New Zealand white mice. Response correlates with the absence of an anti-antibody response. Early GS, et al. **J Immunol** 1996 Oct 1;157(7):3159–64

Suppression of autoimmune disease and of massive lymphadenopathy in MRL/Mp-lpr/lpr mice lacking tyrosine kinase Fyn (p59fyn). Takahashi T, et al. **J Immunol** 1997 Sep 1;159(5):2532–41

A noncytolytic IL-10/Fc fusion protein prevents diabetes, blocks autoimmunity, and promotes suppressor phenomena in NOD mice. Zheng XX, et al. **J Immunol** 1997 May 1; 158(9):4507–13

Protection against experimental nervous system autoimmune diseases by a human immunodeficiency virus-1 Tat peptide-based polyvalent vaccine. Schluesener HJ. **J Neurosci Res** 1996 Oct 15;46(2):258–62

Insulin-dependent diabetes: now for some good news [editorial] Harrison L. **Med J Aust** 1996 Nov 4;165(9):466–7

Routine endocrine screening for patients with karyotypically normal spontaneous premature ovarian failure. Kim TJ, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):777–9

Aspects of the etiology, prediction, and prevention of insulin-dependent diabetes mellitus in childhood. Sperling MA. **Pediatr Clin North Am** 1997 Apr;44(2):269–84 (56 ref.)

Prevention of autoimmune disease due to lymphocyte modulation by the B-subunit of Escherichia coli heat-labile enterotoxin. Williams NA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5290–5

Protection of host from its own complement by membrane-bound complement inhibitors: C3 convertase inhibitors vs membrane attack complex inhibitors. Kinoshita T. **Res Immunol** 1996 Feb;147(2):100–3 (32 ref.)

Immunoregulation rather than immunosuppression for prevention and treatment of autoimmune disorders. Slavin S. **Transplant Proc** 1996 Dec;28(6):3021–2

Etretinate (Ro 10-9359) prevents autoimmune syndrome associated with chronic graft-versus-host disease in rats. Stošić-Grujičić S, et al. **Transplant Proc** 1996 Dec; 28(6):3258

[Suppression of experimental autoimmune uveitis by energy restriction] Nakajima A, et al. **Nippon Ganka Gakkai Zasshi** 1996 Sep;100(9):698–704 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Anxiety behavior, exploratory behavior, and activity in NZB x NZW F1 hybrid mice: role of genotype and autoimmune disease progression. Schrott LM, et al. **Brain Behav Immun** 1996 Sep;10(3):260–74

Behaviour of MRL mice: an animal model of disturbed behaviour in systemic autoimmune disease. Szechtman H, et al. **Lupus** 1997;6(3):223–9 (40 ref.)

RADIONUCLIDE IMAGING

Visualization of the thymus by substance P receptor scintigraphy in man. van Hagen PM, et al. **Eur J Nucl Med** 1996 Nov;23(11):1508–13

I-interleukin-2 scintigraphy: a new approach to assess disease activity in autoimmunity. Signore A, et al. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:139–44

111In-octreotide in the evaluation of autoimmune thyroid diseases. Mansi L, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):127–30

REHABILITATION

[Reactive arthritis and its treatment with physical factors] Grigor'eva VD, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May-Jun; (3):39–41 (52 ref.) **(Rus)**

SURGERY

Stem cell transplantation in autoimmune disease [editorial] Brooks PM, et al. **J Rheumatol** 1995 Oct;22(10):1809–11 (31 ref.)

The potential of bone marrow stem cell transplantation in the treatment of autoimmune diseases [editorial] Messner RP. **J Rheumatol** 1997 May;24(5):819–21

The "triple technique" for treating stable Graves' ophthalmopathy. Tremolada C, et al. **Plast Reconstr Surg** 1997 Jul;100(1):40–8; discussion 49–50

Liver transplantation for autoimmune hepatitis: a 12-year experience. Ahmed M, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):496

Renal transplantation for patients with autoimmune diseases: single-center experience with 42 patients. Haubitz M, et al. **Transplantation** 1997 May 15;63(9):1251–7

Delayed correction of portal hypertension after portal vein conduit arterialization in liver transplantation. Neelamekam TK, et al. **Transplantation** 1997 Apr 15;63(7):1029–30

[Clinical examinations of thymic abnormalities and significance of thymectomy in the patients with autoimmune disease] Yoshimatsu H, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):267–72 (Eng. Abstr.) **(Jpn)**

THERAPY

Synthetic vaccines for infectious and autoimmune diseases. Sela M. **Adv Exp Med Biol** 1996;397:1–5 (22 ref.)

Tolerance and uveitis [editorial; comment] Bach JF. **Am J Ophthalmol** 1997 May;123(5):684–7 (22 ref.). Comment on: Am J Ophthalmol 1997 May;123(5):583–92.

The use of intravenous immunoglobulin in recurrent pregnancy loss associated with combined alloimmune and autoimmune abnormalities. Kiprov DD, et al. **Am J Reprod Immunol** 1996 Oct;36(4):228–34

Interview with Jean-Pierre Revillard. What is going to happen tomorrow as far as treatment of autoimmune disorders is concerned? [interview] Revillard JP. **Ann Med Interne (Paris)** 1997;148(1):11–4

Basic aspects of neuroimmunology as they relate to immunotherapeutic targets: present and future prospects. Dalakas MC. **Ann Neurol** 1995 May;37 Suppl 1:S2–13 (91 ref.)

Oral tolerance for the treatment of autoimmune diseases. Weiner HL. **Annu Rev Med** 1997;48:341–51 (75 ref.)

Treatment results of 23 cases of severe aplastic anemia with lymphocytapheresis. Morales-Polanco MR, et al. **Arch Med Res** 1997 Spring;28(1):85–90

Treatment of acquired factor VIII inhibitor using intravenous immunoglobulin in two patients with systemic lupus erythematosus. Lafferty TE, et al. **Arthritis Rheum** 1997 Apr;40(4):775–8

Manipulation of the Th1/Th2 cell balance: an approach to treat human autoimmune diseases? Adorini L, et al. **Autoimmunity** 1996;23(1):53–68 (131 ref.)

Idiotype manipulation for autoimmune diseases: where are we going? Zouali M, et al. **Autoimmunity** 1996;24(1):55–63 (72 ref.)

Prospects and advances in hormonal immunomodulatory therapy. Jorgensen C, et al. **Baillieres Clin Rheumatol** 1996 May;10(2):379–92 (84 ref.)

Oral tolerance: elucidation of mechanisms and application to treatment of autoimmune diseases. Fowler E, et al. **Biopolymers** 1997;43(4):323–35 (99 ref.)

Early recurrence or persistence of autoimmune diseases after unmanipulated autologous stem cell transplantation [see comments] Euler HH, et al. **Blood** 1996 Nov 1;88(9):3621–5 . Comment in: Blood 1997 Jun 15;89(12):4659.

Blast crisis of chronic myelogenous leukemia in long-lasting systemic lupus erythematosus: regression of both diseases after autologous bone marrow transplantation [letter; comment] Meloni G, et al. **Blood** 1997 Jun 15;89(12):4659 . Comment on: Blood 1996 Nov 1;88(9):3621–5.

Intravenous anti-D treatment of immune thrombocytopenic purpura: experience in 272 patients. Scaradavou A, et al. **Blood** 1997 Apr 15;89(8):2689–700

Science, medicine, and the future. Treatment of rheumatoid arthritis. Buckley CD. **BMJ** 1997 Jul 26;315(7102):236–8 (14 ref.)

Bone marrow transplantation in chronic GvHD and autoimmune diseases. Andolina M, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:145–7

Recurrent cold hemagglutinin disease following allogeneic

bone marrow transplantation successfully treated with plasmapheresis, corticosteroid and cyclophosphamide. Azuma E, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):243–6

Blood and marrow stem cell transplants in auto–immune disease: a consensus report written on behalf of the European League against Rheumatism (EULAR) and the European Group for Blood and Marrow Transplantation (EBMT). Tyndall A, et al. **Bone Marrow Transplant** 1997 Apr;19(7):643–5 (0 ref.)

Effective treatment of relapsing experimental autoimmune encephalomyelitis with pseudoautologous bone marrow transplantation. van Gelder M, et al.
Bone Marrow Transplant 1996 Dec;18(6):1029–34

Treatment of refractory epidermolysis bullosa acquisita with extracorporeal photochemotherapy. Gordon KB, et al.
Br J Dermatol 1997 Mar;136(3):415–20

Reversal of autoimmune phenomena in autoimmune neutropenia after treatment with rhG–CSF: two additional cases [letter; comment] Carulli G, et al. **Br J Haematol** 1997 Mar;96(4):877–8. Comment on: Br J Haematol 1996 Sep;94(3):464–9.

Sustained remission of severe resistant autoimmune neutropenia with Campath–1H. Killick SB, et al.
Br J Haematol 1997 May;97(2):306–8

The use of rhG–CSF in chronic autoimmune neutropenia: reversal of autoimmune phenomena, a case history [see comments] Kuijpers TW, et al. **Br J Haematol** 1996 Sep; 94(3):464–9. Comment in: Br J Haematol 1997 Mar;96(4):877–8.

Bone marrow transplantation in the treatment of autoimmune diseases [editorial] Tyndall A, et al. **Br J Rheumatol** 1997 Jan;36(1):1–3

Blood and marrow stem cell transplants in autoimmune disease. A consensus report written on behalf of the European League Against Rheumatism (EULAR) and the European Group for Blood and Marrow Transplantation (EBMT). Tyndall A, et al. **Br J Rheumatol** 1997 Mar; 36(3):390–2 (16 ref.)

T cell directed immunotherapy of inflammatory demyelination in the peripheral nervous system. Potent suppression of the effector phase of experimental autoimmune neuritis by anti–CD2 antibodies. Jung S, et al. **Brain** 1996 Aug;119 (Pt 4):1079–90

Autoimmune paraneoplastic cerebellar degeneration in ovarian carcinoma patients treated with plasmapheresis and immunoglobulin. A case report. David YB, et al.
Cancer 1996 Nov 15;78(10):2153–6

Immune ablation and hematopoietic stem cell rescue for severe autoimmune diseases (SADS). Burt RK.
Cancer Treat Res 1997;77:317–32 (76 ref.)

Suppression of experimental autoimmune uveitis in Lewis rats by oral administration of recombinant Escherichia coli expressing retinal S–antigen. Singh VK, et al.
Cell Immunol 1996 Sep 15;172(2):158–62

Anti–CD4 monoclonal antibody (mAb) and anti–idiotypic mAb to anti–CD4 in the therapy of autoimmune diseases. Perosa F, et al. **Clin Exp Rheumatol** 1997 Mar–Apr; 15(2):201–10 (51 ref.)

Autoimmune pathogenesis of multiple sclerosis: role of autoreactive T lymphocytes and new immunotherapeutic strategies. Stinissen P, et al. **Crit Rev Immunol** 1997; 17(1):33–75 (357 ref.)

Current and future therapies for myasthenia gravis. Yi Q, et al. **Drugs Aging** 1997 Aug;11(2):132–9 (61 ref.)

Correction of Fas (CD95) deficiency by haploidentical bone marrow transplantation. Benkerrou M, et al.
Eur J Immunol 1997 Aug;27(8):2043–7

Pathogenesis and immunotherapy of autoimmune diseases. Adorini L, et al. **Immunol Today** 1997 May;18(5):209–11

IL–4–induced immune deviation as antigen–specific therapy for inflammatory autoimmune disease. Röcken M, et al. **Immunol Today** 1996 May;17(5):225–31 (80 ref.)

Oral tolerance: immune mechanisms and treatment of autoimmune diseases. Weiner HL. **Immunol Today** 1997 Jul; 18(7):335–43 (143 ref.)

General principles of management of autoimmune haematological disorders. Ghosh K. **Indian J Med Sci** 1996 May;50(5):138–43

Are immunoconjugates useful for therapy with autoimmune diseases? Wu M. **Int J Immunopharmacol** 1997 Feb; 19(2):83–93 (56 ref.)

High–affinity anti–DNA antibody parallels clinical course of immunoadsorption therapy for systemic lupus erythematosus. Funauchi M, et al. **Intern Med** 1996 May; 35(5):367–72

VCAM–1/alpha 4–integrin adhesion pathway: therapeutic target for allergic inflammatory disorders. Foster CA.
J Allergy Clin Immunol 1996 Dec;98(6 Pt 2):S270–7 (86 ref.)

Characterization of a new case of autoimmune type I hyperlipidemia: long–term remission under immunosuppressive therapy. Pruneta V, et al.
J Clin Endocrinol Metab 1997 Mar;82(3):791–6

Induction of tissue–specific autoimmune prostatitis with prostatic acid phosphatase immunization: implications for immunotherapy of prostate cancer. Fong L, et al.
J Immunol 1997 Oct 1;159(7):3113–7

Suppression of murine chronic relapsing experimental autoimmune encephalomyelitis by the oral administration of myelin basic protein. Meyer AL, et al. **J Immunol** 1996 Nov 1;157(9):4230–8

Immune modulation strategies in T cell mediated autoimmune diseases–relevance to IDDM. Mathieson PW.
J Pediatr Endocrinol Metab 1996 Mar;9 Suppl 1:133–8 (26 ref.)

Role of Hematopoietic Stem Cell Transplantation for Autoimmune Diseases. Proceedings of a conference. Seattle, Washington, October 27, 1995.
J Rheumatol Suppl 1997 May;48:1–102

Hematopoietic stem cell transplantation for autoimmune diseases. Brooks PM. **J Rheumatol Suppl** 1997 May; 48:19–22 (22 ref.)

Preclinical investigations that subserve efforts to employ bone marrow transplantation for rheumatoid or autoimmune diseases. Good RA, et al. **J Rheumatol Suppl** 1997 May; 48:5–12 (73 ref.)

The potential role of autologous stem cell transplantation in patients with systemic lupus erythematosus. Hahn BH.
J Rheumatol Suppl 1997 May;48:89–93 (35 ref.)

Autologous stem cell transplantation for autoimmune diseases: issues in protocol development. McSweeney PA, et al. **J Rheumatol Suppl** 1997 May;48:79–84

Stem cell transplantation for severe autoimmune disorders, with special reference to rheumatic diseases. Marmont AM.
J Rheumatol Suppl 1997 May;48:13–8 (48 ref.)

Development of a protocol for allogeneic marrow transplantation for severe systemic sclerosis: paradigm for autoimmune disease. Nash RA, et al.
J Rheumatol Suppl 1997 May;48:72–8 (51 ref.)

Pre–existing autoimmune disease in patients with long–term survival after allogeneic bone marrow transplantation. Nelson JL, et al. **J Rheumatol Suppl** 1997 May;48:23–9

Longterm followup and quality of life after hematopoietic stem cell transplantation. Sullivan KM.
J Rheumatol Suppl 1997 May;48:46–52 (50 ref.)

The evolving role of blood and marrow transplantation for the treatment of autoimmune diseases. Sullivan KM, et al.
J Rheumatol Suppl 1997 May;48:1–4 (59 ref.)

Pros and cons of stem cell transplantation for autoimmune disease. Thomas ED. **J Rheumatol Suppl** 1997 May; 48:100–2 (15 ref.)

Hematopoietic stem cell transplantation in rheumatic diseases other than systemic sclerosis and systemic lupus erythematosus. Tyndall A. **J Rheumatol Suppl** 1997 May; 48:94–7 (25 ref.)

Hematopoietic stem cell transplants for autoimmune disease: role of EULAR. European League Against Rheumatism. van de Putte LB, et al. **J Rheumatol Suppl** 1997 May; 48:98–9

Autologous blood stem cell transplantation for autoimmune diseases. Snowden JA, et al. **Lancet** 1996 Oct 26; 348(9035):1112–3

Modulation of experimental systemic lupus erythematosus with linomide. Zandman–Goddard G, et al. **Lupus** 1996 Aug;5(4):328–33

Intravenous immunoglobulin treatment in multifocal motor neuropathy and other chronic immune–mediated neuropathies. Comi G, et al. **Mult Scler** 1997 Apr;3(2):93–7 (53 ref.)

Modulation of autoimmune responses by intravenous immunoglobulin (IVIg). Kaveri S, et al. **Mult Scler** 1997 Apr;3(2):121–8 (60 ref.)

Immunomodulation and remyelination: two aspects of human polyclonal immunoglobulin treatment in immune mediated neuropathies? van Schaik IN, et al. **Mult Scler** 1997 Apr; 3(2):98–104 (91 ref.)

Immunotherapy for multiple sclerosis: from theory to practice [comment] Antel JP, et al. **Nat Med** 1996 Oct; 2(10):1074–5. Comment on: Nat Med 1996 Oct;2(10):1109–15.

Treatment of multiple sclerosis with T–cell receptor peptides: results of a double–blind pilot trial [see comments] [published erratum appears in Nat Med 1997 Feb;3(2):240] Vandenbark AA, et al. **Nat Med** 1996 Oct;2(10):1109–15 . Comment in: Nat Med 1996 Oct;2(10):1074–5.

The therapeutic dilemma of inclusion body myositis [editorial; comment] Barohn RJ. **Neurology** 1997 Mar; 48(3):567–8. Comment on: Neurology 1997 Mar;48(3):712–6.

BMT for severe autoimmune diseases: an idea whose time has come. Burt RK. **Oncology (Huntingt)** 1997 Jul; 11(7):1001–14; 1017, discussion 1018–24 (88 ref.)

Bone marrow transplantation as a strategy for the treatment of autoimmune–linked renal diseases. Ikehara S.
Ren Fail 1996 Jan;18(1):1–18 (44 ref.)

New therapeutic avenues in autoimmunity. Amital H, et al.
Res Immunol 1996 Jul–Aug;147(6):361–76 (151 ref.)

Complexities in the treatment of autoimmune disease [comment] McFarland HF. **Science** 1996 Dec 20; 274(5295):2037–8. Comment on: Science 1996 Dec 20;274(5295):2054–7.

Cytokine inhibitors in autoimmune disease. Weckmann AL, et al. **Semin Arthritis Rheum** 1996 Oct;26(2):539–57 (82 ref.)

Harnessing self–reactivity in cancer immunotherapy. Schoenberger SP, et al. **Semin Immunol** 1996 Oct;8(5):303–9 (44 ref.)

Cytokine–based immunomodulation of autoimmune diseases: an overview. Bach JF. **Transplant Proc** 1996 Dec; 28(6):3023–5 (40 ref.)

Immunoregulation rather than immunosuppression for prevention and treatment of autoimmune disorders. Slavin S. **Transplant Proc** 1996 Dec;28(6):3021–2

Pancreas islet xenografts but not allografts are resistant to autoimmune disease recurrence following islet transplantation. Thomas FT, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):760–1

[Control of autoimmune processes by natural and other non–harmful methods] Pekárek J, et al.
Bratisl Lek Listy 1997 Jun;98(6):315–20 (Eng. Abstr.) **(Cze)**

[Autoimmunity: a concept generating therapeutic tools] Revillard JP, et al. **Rev Med Interne** 1996;17 Suppl 3:324s–334s (61 ref.) **(Fre)**

[Regulation of autoreactivity by the idiotypic network and therapeutic modulation of autoimmunity by polyvalent intravenous immunoglobulins (IgIV)] Lacroix–Desmazes S, et al. **Rev Neurol (Paris)** 1996 May;152(5):349–54 (40 ref.) (Eng. Abstr.) **(Fre)**

[Fetal weight–adjusted intrauterine IgG therapy in neonatal alloimmune thrombocytopenia] Giers G, et al.
Beitr Infusionsther Transfusionsmed 1996;33:160–4 (Eng. Abstr.) **(Ger)**

[Immune thrombocytopenia, anemia and leukopenia during pregnancy. Successful therapy with extracorporeal immunoadsorption] Julius U, et al.
Dtsch Med Wochenschr 1997 Feb 21;122(8):220–4 (Eng. Abstr.) **(Ger)**

[Therapy of autoimmune hepatitis] Rambusch EG, et al.
Dtsch Med Wochenschr 1996 Dec 6;121(49):1539–42 (25 ref.) **(Ger)**

[Mechanisms of action of intravenous immunoglobulins] Poehlau D, et al. **Fortschr Med** 1996 Nov 10;114(31):420–4 (Eng. Abstr.) **(Ger)**

[Autoimmunity] Müller C. **Schweiz Med Wochenschr** 1997 Mar 1;127(9):333–40 (Eng. Abstr.) **(Ger)**

[The treatment of serious autoimmune diseases. Immune ablation integrated with hematopoietic stem cells (editorial)] Marmont AM. **Recenti Prog Med** 1996 Oct; 87(10):480–6 (90 ref.) **(Ita)**

[T cell vaccination––induction of anti–idiotypic immune response against TCR and shift of Th1/Th2 balance] Kakimoto K, et al. **Nippon Rinsho** 1997 Jun;55(6):1512–8 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Application of oral tolerance to the treatment of autoimmune diseases––active suppression and bystander suppression] Matsui M. **Nippon Rinsho** 1997 Jun;55(6):1537–42 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Immune intervention by peptides having a MHC class II binding motif––application of MHC blockers to autoimmune disease models] Nihira S. **Nippon Rinsho** 1997 Jun;55(6):1525–30 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Application of chimeric and humanized antibodies to autoimmune diseases therapy] Noguchi H.
Nippon Rinsho 1997 Jun;55(6):1549–56 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Monoclonal antibodies for treating autoimmune diseases] Takeno M, et al. **Nippon Rinsho** 1997 Jun;55(6):1543–8 (16 ref.) (Eng. Abstr.) **(Jpn)**

[TCR peptide vaccination for autoimmune diseases: involvement of T–T interaction between autoimmune T cells presenting TCR peptide and CD4–CD8– regulatory T cells] Yamamura T. **Nippon Rinsho** 1997 Jun; 55(6):1519–24 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Future research for the treatment of intractable diseases] Mizushima Y. **Ryumachi** 1995 Dec;35(6):877–9 (6 ref.) **(Jpn)**

[Experience in using extracorporeal detoxication in the intensive therapy of autoimmune pathology] Starikov AV.
Lik Sprava 1995 Sep–Dec;(9–12):155–7 (Eng. Abstr.) **(Rus)**

[The use of plasmapheresis in treating Sjögren's disease (syndrome)] Gubin MA, et al. **Stomatologiia (Mosk)** 1996; 75(3):24–6 (Eng. Abstr.) **(Rus)**

[A case of the successful use of plasmapheresis in the combined treatment of a female patient with autoimmune agranulocytosis against a background of Schmidt's syndrome] Vlasenko AN, et al. **Ter Arkh** 1997;69(2):64–5 (10 ref.) **(Rus)**

[New possibilities in the treatment of autoimmune diseases] Dimitrijević M, et al. **Vojnosanit Pregl** 1997 Jan–Feb; 54(1):41–8 (40 ref.) **(Scr)**

[Chronic active autoimmune hepatitis: review of the current treatment] Garassini S MA. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S65–7 **(Spa)**

[Combined treatment with factor VIII and immunosuppressive agents in a young woman with acquired factor VIII inhibitor] José Aguado M, et al.
Sangre (Barc) 1996 Apr;41(2):147–50 (Eng. Abstr.) **(Spa)**

VETERINARY

Analysis of pathogenesis of autoimmune insulitis in NOD mice: adoptive transfer experiments of insulitis in ILI and NOD nude mice. Nakamura M, et al. **Exp Anim** 1996 Jul; 45(3):233–8

Annual booster vaccinations. Is there an association with immune–mediated problems? [news] Elliott J.
J Small Anim Pract 1997 Apr;38(4):179–80

Human intravenous immunoglobulin therapy.
Scott–Moncrieff JC, et al.
Semin Vet Med Surg (Small Anim) 1997 Aug;12(3):178–85 (56 ref.)

VIROLOGY

Possible involvement of endogenous retroviruses in the

development of autoimmune disorders, especially multiple sclerosis. Rasmussen HB, et al. **Acta Neurol Scand Suppl** 1997;169:32–7 (28 ref.)

Virus–induced autoimmune disease: transgenic approach to mimic insulin–dependent diabetes mellitus and other autoimmune diseases. Oldstone MB, et al. **APMIS** 1996 Oct;104(10):689–97 (55 ref.)

Endogenous retroviral sequences in the pathogenesis of systemic autoimmune disease. Walchner M, et al. **Arch Dermatol** 1997 Jun;133(6):767–71 (69 ref.)

HTLV–I associated myelopathy: a case of viral–induced auto–immunity. Oger J, et al. **Autoimmunity** 1995; 21(3):151–9 (83 ref.)

Characterization of overt B–cell lymphomas in patients with hepatitis C virus infection. De Vita S, et al. **Blood** 1997 Jul 15;90(2):776–82

Virus–induced autoimmune disease. von Herrath MG, et al. **Curr Opin Immunol** 1996 Dec;8(6):878–85 (73 ref.)

Postviral autoimmune heart disease—fact or fiction? Caforio AL, et al. **Eur Heart J** 1997 Jul;18(7):1051–5 (20 ref.)

Immunoglobulin G subclass antibodies to rubella virus in chronic liver disease, acute rubella and healthy controls. Kalvenes MB, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):43–50

Hepatitis C and the controversies it creates relative to liver transplantation and autoimmune hepatitis. Bayraktar Y, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):873–81 (56 ref.)

Viral infection of transgenic mice expressing a viral protein in oligodendrocytes leads to chronic central nervous system autoimmune disease. Evans CF, et al. **J Exp Med** 1996 Dec 1;184(6):2371–84

Different genotypes of human polyomaviruses found in patients with autoimmune diseases in Taiwan. Chang D, et al. **J Med Virol** 1996 Feb;48(2):204–9

Prevalence of antibodies to hepatitis C and herpes simplex virus type 1 is not increased in children with liver kidney microsomal type 1 autoimmune hepatitis. Gregorio GV, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):534–7

Viruses and autoimmune disease [editorial] Vaughan JH. **J Rheumatol** 1996 Nov;23(11):1831–3 (24 ref.)

A patient with hepatitis B, antimicrosomal antibodies, and autoimmune hypothyroidism. Catapani WR, et al. **Postgrad Med J** 1996 Dec;72(854):752–3

Hepatitis E virus and primary biliary cirrhosis [letter] Wang CH, et al. **QJM** 1997 Feb;90(2):154–5

Detection of antibodies to hepatitis E virus in patients with autoimmune chronic active hepatitis and primary biliary cirrhosis. Le Cann P, et al. **Scand J Gastroenterol** 1997 Apr;32(4):387–9

Hepatitis C virus infection and autoimmunity. McMurray RW, et al. **Semin Arthritis Rheum** 1997 Feb;26(4):689–701 (125 ref.)

[Endogenous retroviruses in autoimmune diseases] Katsumata K, et al. **Nippon Rinsho** 1997 Jun;55(6):1475–81 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Autoimmune rheumatic diseases associated with HIV infection and its pathogenesis] Matsumoto Y. **Nippon Rinsho** 1997 Jun;55(6):1486–91 (18 ref.) (Eng. Abstr.) **(Jpn)**

AUTOIMMUNE POLYENDOCRINOPATHY–CANDIDIASIS–ECTODERMAL–DYSTROPHY see **POLYENDOCRINOPATHIES, AUTOIMMUNE**

AUTOIMMUNE RESPONSE see **AUTOIMMUNITY**

AUTOIMMUNE SYNDROME TYPE I, POLYGLANDULAR see **POLYENDOCRINOPATHIES, AUTOIMMUNE**

AUTOIMMUNE SYNDROME TYPE II, POLYGLANDULAR see **POLYENDOCRINOPATHIES, AUTOIMMUNE**

AUTOIMMUNE THROMBOCYTOPENIC PURPURA see **PURPURA, THROMBOCYTOPENIC, IDIOPATHIC**

AUTOIMMUNE THYROIDITIS see **THYROIDITIS, AUTOIMMUNE**

AUTOIMMUNITY

see related
AUTOANTIBODIES
AUTOIMMUNE DISEASES

Autoimmunity and ALS: studies on antibodies to acetylcholinesterase in sera. Häggström B, et al. **Acta Neurol Scand** 1997 Feb;95(2):111–4

Increased lipid peroxidation in children with autoimmune diseases. Michel P, et al. **Acta Paediatr** 1997 Jun; 86(6):609–12

TH1 and TH2 lymphocytes in autoimmunity. Druet P, et al. **Adv Nephrol Necker Hosp** 1996;25:217–41 (143 ref.)

Autoimmune bullous diseases. Rye B, et al. **Am Fam Physician** 1997 Jun;55(8):2709–18 (26 ref.)

Autoimmune hepatitis after cytomegalovirus infection in a bone marrow–transplanted patient [letter] Kamisato T, et al. **Am J Gastroenterol** 1997 Jul;92(7):1238–9

Autoimmune–associated hemophagocytic syndrome. Kumakura S, et al. **Am J Med** 1997 Jan;102(1):113–5

Autoimmunity and the nervous system. Newsom–Davis J. **Ann Acad Med Singapore** 1996 Mar;25(2):309–14 (20 ref.)

Autoimmunity and its treatment in aplastic anemia [editorial; comment] Young NS. **Ann Intern Med** 1997 Jan 15; 126(2):166–8. Comment on: Ann Intern Med 1997 Jan 15;126(2):107–15. Comment on: Ann Intern Med 1997 Jan 15;126(2):116–22.

Autoimmunity: pathogenetic aspects. Tzioufas AG, et al. **Ann Med Interne (Paris)** 1996;147(6):446–9 (23 ref.)

B Lymphocytes and Autoimmunity. Proceedings of a conference. Prague, Czech Republic, May 21–25, 1996. **Ann N Y Acad Sci** 1997 Apr 5;815:1–528

Balancing immunity, autoimmunity, and self–tolerance. Goodnow CC. **Ann N Y Acad Sci** 1997 Apr 5;815:55–66 (27 ref.)

Autoantibodies and autoimmunity: a three–decade perspective. A tribute to Henry G. Kunkel. Tan EM. **Ann N Y Acad Sci** 1997 Apr 5;815:1–14 (29 ref.)

T–cells with two T–cell receptors: are they important in autoimmunity? Stockinger B, et al. **Biochem Soc Trans** 1997 May;25(2):617–20 (22 ref.)

HLA antigens in schizophrenia and mood disorders. Ozcan ME, et al. **Biol Psychiatry** 1996 May 15;39(10):891–5

How far have we come on the way toward understanding the role of autoimmunity in the development of idiopathic dilated cardiomyopathy? [editorial] Fu ML, et al. **Blood Press Suppl** 1996;3:5–7 (26 ref.)

Development of psoriasis after syngeneic bone marrow transplant from psoriatic donor: further evidence for adoptive autoimmunity. Snowden JA, et al. **Br J Dermatol** 1997 Jul;137(1):130–2

An inflammatory, familial, inclusion body myositis with autoimmune features and a phenotype identical to sporadic inclusion body myositis. Studies in three families. Sivakumar K, et al. **Brain** 1997 Apr;120 (Pt 4):653–61

Learning and memory in the autoimmune BXSB mouse: effects of neocortical ectopias and environmental enrichment. Boehm GW, et al. **Brain Res** 1996 Jul 8; 726(1–2):11–22

Induction of interstitial pneumonia in autoimmune mice by intratracheal administration of superantigen staphylococcal enterotoxin B. Shinbori T, et al. **Cell Immunol** 1996 Dec 15;174(2):129–37

Cytokine regulation of immune responses and further reflections on self–non–self discrimination. **Ciba Found Symp** 1997;204:187–9 (0 ref.)

T cell tolerance and autoimmunity. Miller JF, et al. **Ciba Found Symp** 1997;204:159–68; discussion 168–71

Adrenal autoantibodies and organ–specific autoimmunity in patients with Addison's disease. Söderbergh A, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):453–60

Hyperexpression of transporter in antigen processing–1 (TAP–1) in thyroid glands affected by autoimmunity: a contributing factor to the breach of tolerance to thyroid antigens? Sospedra M, et al. **Clin Exp Immunol** 1997 Jul; 109(1):98–106

dsDNA–, nucleohistone– and DNASE I–reactive T lymphocytes in patients affected by systemic lupus erythematosus: correlation with clinical disease activity [see comments] Filaci G, et al. **Clin Exp Rheumatol** 1996 Sep–Oct;14(5):543–50. Comment in: Clin Exp Rheumatol 1996 Sep–Oct;14(5):475–7.

T–cell autoimmunity in primary biliary cirrhosis. Jones DE. **Clin Sci (Colch)** 1996 Nov;91(5):551–8 (40 ref.)

Autoimmunity. **Curr Opin Immunol** 1996 Dec;8(6):895–907

Costimulation and autoimmunity. Tivol EA, et al. **Curr Opin Immunol** 1996 Dec;8(6):822–30 (66 ref.)

Apoptosis and autoimmunity. Koh JS, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):259–66 (68 ref.)

Interferon–gamma in autoimmunity. Billiau A. **Cytokine Growth Factor Rev** 1996 Jun;7(1):25–34 (106 ref.)

The BB/Wor rat and the balance hypothesis of autoimmunity. Mordes JP, et al. **Diabetes Metab Rev** 1996 Jul;12(2):103–9 (55 ref.)

Molecular basis of rheumatoid joint destruction: analogies to the pathogenesis of autoimmunity in diabetes. Gay S, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:131–5 (34 ref.)

Autoimmunity and thyroid growth. Where do we stand? [comment] Drexhage HA. **Eur J Endocrinol** 1996 Jul; 135(1):39–45 (79 ref.). Comment on: Eur J Endocrinol 1996 Jul;135(1):60–8. Comment on: Eur J Endocrinol 1996 Jul;135(1):69–76.

Intracytoplasmic sperm injection for treating infertility associated with sperm autoimmunity. Clarke GN, et al. **Fertil Steril** 1997 Jul;68(1):112–7

Autoimmunogenicity of the human sperm protein Sp17 in vasectomized men and identification of linear B cell epitopes. Lea IA, et al. **Fertil Steril** 1997 Feb;67(2):355–61

Hepatitis C and autoimmunity [clinical conference] Wrobleski C, et al. **Gastroenterologist** 1996 Sep;4(3):211–5

Alcohol dehydrogenase: a target of humoral autoimmune response in liver disease. Ma Y, et al. **Gastroenterology** 1997 Feb;112(2):483–92

Induction of intestinal lesions in nu/nu mice induced by transfer of lymphocytes from syngeneic mice infected with murine retrovirus. Suzuki K, et al. **Gut** 1997 Aug; 41(2):221–8

Histological findings in chronic hepatitis C with autoimmune features. Czaja AJ, et al. **Hepatology** 1997 Aug;26(2):459–66

Animal models of disease and basic science. Lo D. **Horm Metab Res** 1996 Jun;28(6):296–8

Perspectives on ovarian dysfunction and autoimmunity. Moncayo HE, et al. **Horm Metab Res** 1995 Dec; 27(12):544–6 (35 ref.)

The emerging concept of pathogenic natural autoantibodies. George J, et al. **Hum Antibodies** 1997;8(2):70–5 (49 ref.)

Immune privilege, T–cell tolerance, and tissue–restricted autoimmunity. Streilein JW, et al. **Hum Immunol** 1997 Feb; 52(2):138–43 (29 ref.)

Defective maternal–fetal interaction in a murine autoimmune model. Tartakovsky B, et al. **Hum Reprod** 1996 Nov; 11(11):2408–11

Organ–specific autoimmunity induced by lymphopenia. Gleeson PA, et al. **Immunol Rev** 1996 Feb;149:97–125 (99 ref.)

The physiological role of regulatory T cells in the prevention of autoimmunity: the function of the thymus in the generation of the regulatory T cell subset. Saoudi A, et al. **Immunol Rev** 1996 Feb;149:195–216 (94 ref.)

Double negative (CD4–CD8– alpha beta+) T cells which promote tolerance induction and regulate autoimmunity. Strober S, et al. **Immunol Rev** 1996 Feb;149:217–30 (26 ref.)

Molecular mimicry in the MHC: hidden clues to autoimmunity? [see comments] Baum H, et al. **Immunol Today** 1996 Feb;17(2):64–70 (46 ref.). Comment in: Immunol Today 1997 Feb;18(2):96–7.

Selective modulation of T–cell responses in autoimmunity and cancer. Ottenhoff TH. **Immunol Today** 1996 Feb; 17(2):54–5

Thyrotropin–receptor–mediated diseases: a paradigm for receptor autoimmunity. Prabhakar BS, et al. **Immunol Today** 1997 Sep;18(9):437–42 (54 ref.)

Alloproliferation of purified CD4+ T cells to adult human heart endothelial cells, and study of second–signal requirements. McDouall RM, et al. **Immunology** 1996 Oct; 89(2):220–6

Role of the CD6 glycoprotein in antigen–specific and autoreactive responses of cloned human T lymphocytes. Singer NG, et al. **Immunology** 1996 Aug;88(4):537–43

A monoclonal antibody to Borrelia burgdorferi flagellin modifies neuroblastoma cell neuritogenesis in vitro: a possible role for autoimmunity in the neuropathy of Lyme disease. Sigal LH, et al. **Infect Immun** 1997 May; 65(5):1722–8

Autoimmunity to heat shock protein 60 and antigen–specific production of interleukin–10. Yi Y, et al. **Infect Immun** 1997 May;65(5):1669–74

Isolation of cDNAs coding for IgE autoantigens: a link between atopy and autoimmunity. Valenta R, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):209–12

Malignant neoplasms in cyclosporin A–induced autoimmunity (CyA–AI). Wodzig KW, et al. **Int J Cancer** 1997 Jul 29;72(3):530–5

Autoimmunity in dilated cardiomyopathy and the major histocompatibility complex. Limas CJ. **Int J Cardiol** 1996 May;54(2):113–6 (29 ref.)

Autoimmune myocarditis. Rose NR, et al. **Int J Cardiol** 1996 May;54(2):171–5 (19 ref.)

Transgenic mice to study viral pathogenesis and autoimmunity. Hengartner H. **Int J Exp Pathol** 1996 Dec; 77(6):279–82 (25 ref.)

Acceleration of thrombosis and hemolysis by fibrinolysis inhibiting factor and suppression by Ia antigen expressed on T cells in partially hepatectomized Lewis rats. Nakatsuji T. **Int J Hematol** 1996 Oct;64(3–4):181–8

Proceedings of Physiology and Disease, a symposium on the occasion of the 100th anniversary of Louis Pasteur's death. 13–15 November 1995. **J Autoimmun** 1996 Apr; 9(2):205–304

Vaccine–induced autoimmunity. Cohen AD, et al. **J Autoimmun** 1996 Dec;9(6):699–703 (63 ref.)

Lack of autoimmune serological reactions in rodent models of insulin dependent diabetes mellitus. Mackay IR, et al. **J Autoimmun** 1996 Dec;9(6):705–11

Limiting dilution analysis of the frequency of autoreactive lymph node cells isolated from mice with antigen–induced arthritis. Petrow PK, et al. **J Autoimmun** 1996 Oct; 9(5):629–35

No evidence for autoimmunity in schizophrenia. Schattner A, et al. **J Autoimmun** 1996 Oct;9(5):661–6

Intracellular demonstration of active TGFbeta1 in B cells and plasma cells of autoimmune mice. IgG–bound TGFbeta1 suppresses neutrophil function and host defense against Staphylococcus aureus infection. Caver TE, et al. **J Clin Invest** 1996 Dec 1;98(11):2496–506

Autoimmunity in Chagas' disease. Identification of cardiac myosin–B13 Trypanosoma cruzi protein crossreactive T cell clones in heart lesions of a chronic Chagas' cardiomyopathy patient. Cunha–Neto E, et al. **J Clin Invest** 1996 Oct 15;98(8):1709–12

Autoimmunity caused by disruption of central T cell tolerance. A murine model of drug–induced lupus. Kretz–Rommel A, et al. **J Clin Invest** 1997 Apr 15; 99(8):1888–96

Hierarchical self–tolerance to T cell determinants within the ubiquitous nuclear self–antigen La (SS–B) permits induction of systemic autoimmunity in normal mice. Reynolds P, et al. **J Exp Med** 1996 Nov 1;184(5):1857–70

Mechanisms of cytokine–mediated localized immunoprotection [comment] Sarvetnick N. **J Exp Med** 1996 Nov 1;184(5):1597–600. Comment on: J Exp Med 1996 Nov 1;184(5):1963–74.

Some misconceptions about understanding autoimmunity through experiments with knockouts. Steinman L. **J Exp Med** 1997 Jun 16;185(12):2039–41

Hepatitis C infection and autoimmunity. Eddleston AL. **J Hepatol** 1996;24(2 Suppl):55–60 (36 ref.)

The immune response to 52–kDa Ro and 60–kDa Ro is linked in experimental autoimmunity. Keech CL, et al. **J Immunol** 1996 Oct 15;157(8):3694–9

A CD4–CDR3 peptide analog inhibits both primary and secondary autoreactive CD4+ T cell responses in experimental allergic encephalomyelitis. Marini JC, et al. **J Immunol** 1996 Oct 15;157(8):3706–15

Propagation and regulation of systemic autoimmunity by gammadelta T cells. Peng SL, et al. **J Immunol** 1996 Dec 15;157(12):5689–98

DNA–binding antibodies from viable motheaten mutant mice: implications for B cell tolerance. Westhoff CM, et al. **J Immunol** 1997 Sep 15;159(6):3024–33

Glutamic acid decarboxylase—gene to antigen to disease. Lernmark A. **J Intern Med** 1996 Nov;240(5):259–77 (85 ref.)

The effect of thymectomy on autoreactive T– and B–lymphocytes in myasthenia gravis. Ahlberg R, et al. **J Neuroimmunol** 1997 Apr;74(1–2):45–54

Constitutive expression of costimulatory molecules by human microglia and its relevance to CNS autoimmunity. Dangond F, et al. **J Neuroimmunol** 1997 Jun;76(1–2):132–8

Identification of an epitope derived from human proteolipid protein that can induce autoreactive CD8+ cytotoxic T lymphocytes restricted by HLA–A3: evidence for cross–reactivity with an environmental microorganism. Honma K, et al. **J Neuroimmunol** 1997 Mar;73(1–2):7–14

The immune response to mycobacterial 70–kDa heat shock proteins frequently involves autoreactive T cells and is quantitatively disregulated in multiple sclerosis. Salvetti M, et al. **J Neuroimmunol** 1996 Apr;65(2):143–53

Coeliac disease and autoimmunity due to unmasking of cryptic epitopes? [comment] Mäki M. **Lancet** 1996 Oct 19; 348(9034):1046–7. Comment on: Lancet 1996 Oct 19;348(9034):1065–7.

Aging of the recipients but not of the bone marrow donors enhances autoimmunity in syngeneic radiation chimeras. Doria G, et al. **Mech Ageing Dev** 1997 Apr;95(1–2):131–42

Acquired immune deficiency syndrome caused by hyperimmunity. Chigira M. **Med Hypotheses** 1996 Jun; 46(6):489–98 (139 ref.)

The interaction of C–reactive protein and serum amyloid P component with nuclear antigens. Du Clos TW. **Mol Biol Rep** 1996;23(3–4):253–60 (40 ref.)

RNA recognition by autoantigens and autoantibodies. Keene JD. **Mol Biol Rep** 1996;23(3–4):173–81 (63 ref.)

Epitope analysis of chromo antigen and clinical features in a subset of patients with anti–centromere antibodies. Muro Y, et al. **Mol Biol Rep** 1996;23(3–4):147–51

The role of autoimmunity to glutamate receptors in neurological disease. Rogers SW, et al. **Mol Med Today** 1996 Feb;2(2):76–81 (27 ref.)

Modulation of autoimmune responses by intravenous immunoglobulin (IVIg). Kaveri S, et al. **Mult Scler** 1997 Apr;3(2):121–8 (60 ref.)

Autoimmunity and ALS. Smith RG, et al. **Neurology** 1996 Oct;47(4 Suppl 2):S40–5; discussion S45–6 (65 ref.)

Indictment of the microglia as the villain in multiple sclerosis. Sriram S, et al. **Neurology** 1997 Feb;48(2):464–70 (69 ref.)

Joint pathology and behavioral performance in autoimmune MRL–lpr Mice. Sakić B, et al. **Physiol Behav** 1996 Sep; 60(3):901–5

Precursor B cells for autoantibody production in genomically Fas–intact autoimmune disease are not subject to Fas–mediated immune elimination. Hirose S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9291–5

Immune response to a differentiation antigen induced by altered antigen: a study of tumor rejection and autoimmunity. Naftzger C, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14809–14

New therapeutic avenues in autoimmunity. Amital H, et al. **Res Immunol** 1996 Jul–Aug;147(6):361–76 (151 ref.)

A new mouse model of rheumatoid arthritis: organ–specific disease provoked by systemic autoimmunity. Kouskoff V, et al. **Ryumachi** 1997 Apr;37(2):147

The age–associated increase in autoreactive immunoglobulins reflects a quantitative increase in specificities detectable at lower concentrations in young mice. Nobrega A, et al. **Scand J Immunol** 1996 Nov;44(5):437–43

Myopericarditis due to Chlamydia psittaci. The role of autoimmunity. Díaz F, et al. **Scand J Infect Dis** 1997; 29(1):93–4

Association between chronic widespread musculoskeletal complaints and thyroid autoimmunity. Results from a community survey. Aarflot T, et al. **Scand J Prim Health Care** 1996 Jun;14(2):111–5

The role of T cells in primary biliary cirrhosis. Van de Water J, et al. **Semin Liver Dis** 1997 May;17(2):105–13 (60 ref.)

Immunologic mechanisms in Lyme neuroborreliosis: the potential role of autoimmunity and molecular mimicry. Sigal LH. **Semin Neurol** 1997 Mar;17(1):63–8 (63 ref.)

Autoimmune progesterone dermatitis: onset in a women without previous exogenous progesterone exposure. Moody BR, et al. **South Med J** 1997 Aug;90(8):845–6

T–cell recognition of residue 158–176 in thyrotropin receptor confers risk for development of thyroid autoimmunity in siblings in a family with Graves' disease. Soliman M, et al. **Thyroid** 1996 Dec;6(6):545–51

Papers presented at the 4th Summer School in Immunotoxicology. Aix–les–Bains, France, 18–20 October 1995. **Toxicology** 1997 Apr 11;119(1):1–101

Progression of obliterative airway disease occurs despite the removal of immune reactivity by retransplantation. Brazelton TR, et al. **Transplant Proc** 1997 Sep;29(6):2613

Autoimmunity and B–cell malignancies. Dighiero G. **Verh Dtsch Ges Pathol** 1996;80:148–59 (105 ref.)

[Autoimmune habitual abortion] Nouza K, et al. **Ceska Gynekol** 1996 Oct;61(5):310–6 **(Cze)**

[Autoimmunity: a concept to be revisited?] Dupond JL, et al. **Rev Med Interne** 1997;18(1):72–6 (45 ref.) (Eng. Abstr.) **(Fre)**

[Autoimmunity: a concept generating therapeutic tools] Revillard JP, et al. **Rev Med Interne** 1996;17 Suppl 3:324s–334s (61 ref.) **(Fre)**

[Autoimmunity: a concept generating explanatory tools] Youinou P, et al. **Rev Med Interne** 1996;17 Suppl 3:313s–321s (30 ref.) **(Fre)**

[Autoimmunity] Müller C. **Schweiz Med Wochenschr** 1997 Mar 1;127(9):333–40 (Eng. Abstr.) **(Ger)**

[Cell adhesion molecules and extracellular matrix components as target structures of autoimmunity] Moll R, et al. **Verh Dtsch Ges Pathol** 1996;80:67–79 (51 ref.) (Eng. Abstr.) **(Ger)**

[Th1/Th2 cells and autoimmunity] Amital H, et al. **Harefuah** 1996 Sep;131(5–6):189–92 (43 ref.) **(Heb)**

[Viral myocarditis and autoimmunity] Kakio T, et al. **Nippon Rinsho** 1997 Jun;55(6):1498–504 (31 ref.) (Eng. Abstr.) **(Jpn)**

[Cytokine gene expression in Th1 and Th2: its molecular mechanism and clinical implication] Naito Y, et al. **Nippon Rinsho** 1997 Jun;55(6):1431–7 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Functional analysis of an autoantigen reactive B cell clone derived from MRL/MP–lpr/lpr mice] Kobayashi K, et al. **Ryumachi** 1996 Dec;36(6):844–55 (Eng. Abstr.) **(Jpn)**

[Group A Streptococcus and autoimmune] Ohkuni H. **Ryumachi** 1996 Dec;36(6):874–83 (36 ref.) **(Jpn)**

[Mechanism of relationship between HIV infection and autoimmunity] Smirnova IP, et al. **Vopr Med Khim** 1996 Jul–Sep;42(3):211–6 (Eng. Abstr.) **(Rus)**

[Experimental autoimmune labyrinthitis: evaluation of various models in guinea pigs] García–Berrocal JR, et al. **Acta Otorrinolaringol Esp** 1997 Jan–Feb;48(1):5–10 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Modulation of the autoimmune response in lupus mice by oral administration of attenuated Salmonella typhimurium expressing the IL–2 and TGF–beta genes. Huggins ML, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:499–502

Autoimmune reactions induced by gliadin feeding in germ–free AVN rats and athymic nude mice. Animal models for celiac disease. Tlaskalová–Hogenová H, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:503–5

Anti–CD8 treatment reduces the severity of inflammatory arthritis, but not vasculitis, in mercuric chloride–induced autoimmunity. Kiely PD, et al. **Clin Exp Immunol** 1996 Nov;106(2):280–5

Myasthenia gravis following IFN–alpha–2a treatment. Bora I, et al. **Eur Neurol** 1997;38(1):68

The CD19–CD21 complex regulates signal transduction thresholds governing humoral immunity and autoimmunity. Tedder TF, et al. **Immunity** 1997 Feb;6(2):107–18 (94 ref.)

The autoimmunogenic chemicals HgCl2 and diphenylhydantoin stimulate IgG production to TNP–Ficoll and TNP–OVA, supporting and extending the graft–versus–host hypothesis for chemical induction of autoimmunity. Albers R, et al. **Immunology** 1996 Nov; 89(3):468–73

Pretreatment of lymphocytes with mercury in vitro induces a response in T cells from genetically determined low–responders and a shift of the interleukin profile. Hu H, et al. **Immunology** 1997 Feb;90(2):198–204

Time–dependent autoimmune response of dichloroacetyl chloride in female MRL +/+ mice. Khan MF, et al. **Immunopharmacol Immunotoxicol** 1997 May;19(2):265–77

Anti–Ro/SSA associated recurrent annular erythema: autoimmune response to recombinant 60– and 52–kDa Ro/SSA proteins. Miyagawa S, et al. **J Dermatol Sci** 1996 Jun;12(2):127–31

Local expression of transgene encoded TNF alpha in islets prevents autoimmune diabetes in nonobese diabetic (NOD) mice by preventing the development of auto–reactive islet–specific T cells [see comments] Grewal IS, et al. **J Exp Med** 1996 Nov 1;184(5):1963–74. Comment in: J Exp Med 1996 Nov 1;184(5):1597–600.

IFN–alpha induces autoimmune T cells through the induction of intracellular adhesion molecule–1 and B7.2. Chakrabarti D, et al. **J Immunol** 1996 Jul 15;157(2):522–8

CD19 regulates B lymphocyte signaling thresholds critical for the development of B–1 lineage cells and autoimmunity. Sato S, et al. **J Immunol** 1996 Nov 15;157(10):4371–8

Short term treatment with soluble neuroantigen and anti–CD11a (LFA–1) protects rats against autoimmune encephalomyelitis: treatment abrogates autoimmune disease but not autoimmunity. Willenborg DO, et al. **J Immunol** 1996 Sep 1;157(5):1973–80

Immunomodulation of autoimmunity by linomide: inhibition of antigen presentation through down regulation of macrophage activity in the model of experimental autoimmune encephalomyelitis. Lehmann D, et al. **J Neuroimmunol** 1997 Apr;74(1–2):102–10

The autoimmune reactivity to myelin oligodendrocyte glycoprotein (MOG) in multiple sclerosis is potentially pathogenic: effect of copolymer 1 on MOG–induced disease. Ben–Nun A, et al. **J Neurol** 1996 Apr;243(4 Suppl 1):S14–22

Effects of mercury on the immune system. Pollard KM, et al. **Met Ions Biol Syst** 1997;34:421–40 (100 ref.)

A T cell receptor antagonist peptide induces T cells that mediate bystander suppression and prevent autoimmune encephalomyelitis induced with multiple myelin antigens. Nicholson LB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9279–84

Stress proteins (HSP) and chemical–induced autoimmunity. Albers R, et al. **Toxicol Appl Pharmacol** 1996 Sep; 140(1):70–6

Drug–induced autoimmunity: experience of the French pharmacovigilance system. Vial T, et al. **Toxicology** 1997 Apr 11;119(1):23–7 (26 ref.)

GENETICS

Autoimmunity and congenital permanent diabetes mellitus: a response [letter] Shehadeh N, et al. **Acta Paediatr** 1997 Jul;86(7):782

Role of the major histocompatibility complex region in reproduction, cancer, and autoimmunity. Gill TJ 3rd. **Am J Reprod Immunol** 1996 Mar;35(3):211–5 (14 ref.)

Immunogenetic risk factors of dilated cardiomyopathy. Popovici M, et al. **Blood Press Suppl** 1996;3:49–52

Autoimmune diabetes: caught in the causality trap? Gazda LS, et al. **Immunol Cell Biol** 1995 Dec;73(6):549–51

Temporal discontinuities in progression of NOD autoimmune diabetes. Rudy GB, et al. **Immunol Res** 1997;16(2):137–47 (67 ref.)

T cell receptor gene polymorphisms associated with anti–insulin, autoimmune T cells in diabetes–prone NOD mice. Simone EA, et al. **J Autoimmun** 1997 Jun; 10(3):317–21

The autoimmune response induced by immunising female mice with recombinant human thyrotropin receptor varies with the genetic background. Costagliola S, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):199–206

The primary antibody repertoire of normal, immunodeficient and autoimmune mice is characterized by differences in V gene expression. Kaushik A, et al. **Res Immunol** 1996 Jan;147(1):9–26 (48 ref.)

[Factors of autoantibody level variations in the human population] Nesvizhskii IV, et al. **Vestn Ross Akad Med Nauk** 1996;(8):3–9 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Assisted conception and immunological infertility. Cimino C, et al. **Acta Eur Fertil** 1995 Jan–Feb;26(1):13–20 (46 ref.)

Generation and regulation of B cell autoreactivity arising in the periphery. Kuo P, et al. **Adv Exp Med Biol** 1996; 406:167–76 (71 ref.)

Autoimmunity due to defective Nur77, Fas, and TNF–RI apoptosis. Mountz JD, et al. **Adv Exp Med Biol** 1996; 406:241–62 (93 ref.)

Autoimmunity after silicone breast implants [editorial; comment] Claman HN. **Ann Allergy Asthma Immunol** 1997 Aug;79(2):89–90. Comment on: Ann Allergy Asthma Immunol 1997 Aug;79(2):151–4.

Nucleosome–driven autoimmune response in lupus. Pathogenic T helper cell epitopes and costimulatory signals. Datta SK, et al. **Ann N Y Acad Sci** 1997 Apr 5; 815:155–70 (168 ref.)

Natural autoantibodies, tolerance, and autoimmunity. Dighiero G. **Ann N Y Acad Sci** 1997 Apr 5;815:182–92 (86 ref.)

Lupus humoral autoimmunity after short peptide immunization. James JA, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:124–7

CD40 and its ligand in autoimmunity. Noelle RJ, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:384–91 (32 ref.)

Initiation of autoimmunity to self–proteins complexed with viral antigens. Reeves WH, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:139–54 (51 ref.)

B lymphocytes as autoantigen–presenting cells in the amplification of autoimmunity. Roth R, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:88–104

Induction of autoimmunity. A role for the idiotypic network. Shoenfeld Y, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:342–9 (26 ref.)

The role of autoreactivity in B cell selection. Stollar BD, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:30–9 (91 ref.)

Complement deficiency and autoimmunity. Walport MJ, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:267–81 (87 ref.)

Antigenic peptides and autoimmunity. Sinigaglia F, et al. **APMIS** 1997 Feb;105(2):81–8 (38 ref.)

Organic psychosis linked to chronic tonsillitis and subsequent encephalitis: a probable autoimmune process. Matarazzo EB. **Biol Psychiatry** 1996 Aug 15;40(4):292–4

High prevalence of autoimmune phenomena in hepatitis C virus antibody positive patients with lymphoproliferative and connective tissue disorders. Pivetti S, et al. **Br J Haematol** 1996 Oct;95(1):204–11

Adverse reactions to food constituents: allergy, intolerance,

and autoimmunity. Kitts D, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):241–54 (112 ref.)

Functional expression of Fas (CD95) protein in autoimmune lpr mice. Cui H, et al. **Cell Immunol** 1996 Nov 25; 174(1):35–41

Effector mechanism of experimental autoimmune sialadenitis in the mouse model for primary Sjögren's syndrome. Hayashi Y, et al. **Cell Immunol** 1996 Aug 1;171(2):217–25

Establishment and characterization of cloned CD4– CD8–alphabeta–T cell receptor (TCR)–bearing autoreactive T cells from autoimmune NZB x NZW F1 mice. Chen YC, et al. **Clin Exp Immunol** 1997 Apr;108(1):52–7

The desmosome and hemidesmosome in cutaneous autoimmunity. Lin MS, et al. **Clin Exp Immunol** 1997 Jan; 107 Suppl 1:9–15 (55 ref.)

Cytokines in autoimmunity. Brennan FM, et al. **Curr Opin Immunol** 1996 Dec;8(6):872–7 (63 ref.)

Autoimmunity. How to know thy self [editorial] Hafler DA, et al. **Curr Opin Immunol** 1996 Dec;8(6):805–7 (6 ref.)

Autoimmunity to ion–channels and other proteins in paraneoplastic disorders. Lang B, et al. **Curr Opin Immunol** 1996 Dec;8(6):865–71 (55 ref.)

T cell selection and autoimmunity: flexibility and tuning. Ohashi PS. **Curr Opin Immunol** 1996 Dec;8(6):808–14 (62 ref.)

The role of autoimmunity in vascular dementia. Tekin S, et al. **Dementia** 1996 Mar–Apr;7(2):91–4

Circulating cardiac–specific autoantibodies as markers of autoimmunity in clinical and biopsy–proven myocarditis. The Myocarditis Treatment Trial Investigators. Caforio AL, et al. **Eur Heart J** 1997 Feb;18(2):270–5

Islet cell autoimmunity and progression to insulin–dependent diabetes mellitus in genetically high– and low–risk siblings of diabetic children. The Childhood Diabetes in Finland (DiMe) Study Group. Karjalainen J, et al. **Eur J Clin Invest** 1996 Aug;26(8):640–9

Altered peptide ligands: prospects for immune intervention in autoimmune disease. Fairchild PJ. **Eur J Immunogenet** 1997 Apr;24(2):155–67 (65 ref.)

Cow milk proteins, autoimmunity and type 1 diabetes [comment] Akerblom HK, et al. **Exp Clin Endocrinol Diabetes** 1997;105(2):83–5. Comment on: Exp Clin Endocrinol Diabetes 1997 ;105(2):86–91.

Protection against generalized autoimmunity of the nervous system (GANS), a novel animal model with combined features of EAE, EAN and EAU by a recombinant HIV–1 Tat37–72 peptide–based multiple T cell epitope vaccine. Schluesener HJ. **FEMS Immunol Med Microbiol** 1997 Mar; 17(3):179–86

Autoimmune (type 1) diabetes in young adults in Sweden. Ostman J, et al. **Horm Metab Res** 1996 Jul;28(7):348–50

Chronic autoimmunity of type I diabetes. Simone E, et al. **Horm Metab Res** 1996 Jul;28(7):332–6

Molecular mimicry: can epitope mimicry induce autoimmune disease? Davies JM. **Immunol Cell Biol** 1997 Apr; 75(2):113–26 (143 ref.)

Tumour necrosis factor and lymphotoxin: molecular aspects and role in tissue–specific autoimmunity. Körner H, et al. **Immunol Cell Biol** 1996 Oct;74(5):465–72 (88 ref.)

Systemic autoimmunity in LG/J mice. Peng SL, et al. **Immunol Lett** 1996 Nov;53(2–3):153–5

Emerging cross–regulatory roles of immunity and autoimmunity in atherosclerosis. George J, et al. **Immunol Res** 1996;15(4):315–22 (42 ref.)

Immunopathology or organ–specific autoimmunity as a consequence of virus infection. Aichele P, et al. **Immunol Rev** 1996 Aug;152:21–45 (149 ref.)

Viruses, hidden self–epitopes and autoimmunity. Barnaba V. **Immunol Rev** 1996 Aug;152:47–66 (115 ref.)

B–cell activation by superstimulatory influenza virus hemagglutinin: a pathogenesis for autoimmunity? Cash E, et al. **Immunol Rev** 1996 Aug;152:67–88 (116 ref.)

Epstein–Barr virus infection of T cells: implications for altered T–lymphocyte activation, repertoire development and autoimmunity. Dreyfus DH, et al. **Immunol Rev** 1996 Aug;152:89–110 (67 ref.)

Interleukin–2 deficient mice: a new model to study autoimmunity and self–tolerance. Horak I, et al. **Immunol Rev** 1995 Dec;148:35–44 (29 ref.)

Flavivirus–induced up–regulation of MHC class I antigens; implications for the induction of CD8+ T–cell–mediated autoimmunity. Lobigs M, et al. **Immunol Rev** 1996 Aug; 152:5–19 (67 ref.)

The potential roles of endogenous retroviruses in autoimmunity. Nakagawa K, et al. **Immunol Rev** 1996 Aug; 152:193–236 (219 ref.)

A novel mechanism for virus–induced autoimmunity in humans. Nauclér CS, et al. **Immunol Rev** 1996 Aug; 152:175–92 (65 ref.)

Murine silver–induced autoimmunity: silver shares induction of antinucleolar antibodies with mercury, but causes less activation of the immune system. Johansson U, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):432–43

NOD mouse diabetes: the ubiquitous mouse hsp60 is a beta–cell target antigen of autoimmune T cells. Birk OS, et al. **J Autoimmun** 1996 Apr;9(2):159–66

Th2 and Th1 autoreactive anti–class II cell lines in the rat suppress or induce autoimmunity. Druet P, et al. **J Autoimmun** 1996 Apr;9(2):221–6 (44 ref.)

Diabetes results from a late change in the autoimmune response of NOD mice. Gazda LS, et al. **J Autoimmun** 1997 Jun;10(3):261–70

The role of the thymus in the control of autoimmunity. Heath VL, et al. **J Autoimmun** 1996 Apr;9(2):241–6 (32 ref.)

Murine mercury–induced autoimmunity: the role of T–helper cells. Hultman P, et al. **J Autoimmun** 1995 Dec;8(6):809–23

Influence and fate of T lymphocytes in autoimmunity. Miller JF. **J Autoimmun** 1996 Apr;9(2):301–4 (11 ref.)

Antigen processing and T cell repertoires as crucial aleatory features in induction of autoimmunity. Moudgil KD, et al. **J Autoimmun** 1996 Apr;9(2):227–34

Activation of a murine autoreactive B cell by immunization with human recombinant autoantigen La/SS–B: characterization of the autoepitope. Tröster H, et al. **J Autoimmun** 1995 Dec;8(6):825–42

The human immunoglobulin V(H) gene repertoire is genetically controlled and unaltered by chronic autoimmune stimulation. Kohsaka H, et al. **J Clin Invest** 1996 Dec 15;98(12):2794–800

Autoimmunity associated with TGF–beta1–deficiency in mice is dependent on MHC class II antigen expression. Letterio JJ, et al. **J Clin Invest** 1996 Nov 1;98(9):2109–19

Repertoire cloning of lupus anti–DNA autoantibodies. Roben P, et al. **J Clin Invest** 1996 Dec 15;98(12):2827–37

Identification of high potency microbial and self ligands for a human autoreactive class II–restricted T cell clone [see comments] Hemmer B, et al. **J Exp Med** 1997 May 5; 185(9):1651–9. Comment in: J Exp Med 1997 May 5;185(9):1529–31.

Induction of nonpathologic, humoral autoimmunity in lupus–prone mice by a class II–restricted, transgenic alpha beta T cell. Separation of autoantigen–specific and –nonspecific help. Peng SL, et al. **J Immunol** 1996 Dec 15;157(12):5225–30

B7 costimulation and autoantigen specificity enable B cells to activate autoreactive T cells. Roth R, et al. **J Immunol** 1996 Oct 1;157(7):2924–31

Lipocortin–1 (annexin–1) suppresses activation of autoimmune T cell lines in the Lewis rat. Gold R, et al. **J Neuroimmunol** 1996 Sep;69(1–2):157–64

Dysregulation of potentially pathogenic self reactivity is crucial for the manifestation of clinical autoimmunity. Kumar V, et al. **J Neurosci Res** 1996 Aug 15;45(4):334–9 (26 ref.)

Concept of autoimmunity following spinal cord injury: possible roles for T lymphocytes in the traumatized central nervous system. Popovich PG, et al. **J Neurosci Res** 1996 Aug 15;45(4):349–63 (120 ref.)

Generalized autoimmunity of the nervous system (GANS) induced by a recombinant protein composed of major pathogenic determinants of MBP, IRBP, and P2 protein: suppression of inflammation by a monoclonal antibody against activated rat T line cells. Schluesener H. **J Neurosci Res** 1996 Aug 1;45(3):303–7

Vaccination with autoreactive T cell clones in multiple sclerosis: overview of immunological and clinical data. Stinissen P, et al. **J Neurosci Res** 1996 Aug 15;45(4):500–11 (75 ref.)

Autoimmunity as the etiology of nephropathy in insulin–dependent diabetes. Paulsen EP. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:125–7 (6 ref.)

Elastase derived elastin peptides: putative autoimmune targets in giant cell arteritis. Gillot JM, et al. **J Rheumatol** 1997 Apr;24(4):677–82

Hepatotropic viruses and autoimmunity 1997. Manns MP. **J Viral Hepat** 1997;4 Suppl 1:7–10 (21 ref.)

Autoimmunity in hepatitis C and D virus infection. Strassburg CP, et al. **J Viral Hepat** 1996 Mar;3(2):49–59 (97 ref.)

Association of exposure to cow's milk protein and beta–cell autoimmunity [letter; comment] Dosch HM. **JAMA** 1996 Dec 11;276(22):1799; discussion 1800–1. Comment on: JAMA 1996 Aug 28;276(8):609–14.

Association of exposure to cow's milk protein and beta–cell autoimmunity [letter; comment] Holmes W. **JAMA** 1996 Dec 11;276(22):1800; discussion 1800–1. Comment on: JAMA 1996 Aug 28;276(8):609–14. Comment on: JAMA 1996 Aug 28;276(8):647–8.

Association of exposure to cow's milk protein and beta–cell autoimmunity [letter; comment] Johnston CS, et al. **JAMA** 1996 Dec 11;276(22):1799–800; discussion 1800–1. Comment on: JAMA 1996 Aug 28;276(8):609–14.

Post–infantile giant cell hepatitis in patients with primary sclerosing cholangitis and autoimmune hepatitis. Protzer U, et al. **Liver** 1996 Aug;16(4):274–82

Systemic lupus erythematosus: clinical expression and anti–Ro/SS–a response in patients with and without lesions of subacute cutaneous lupus erythematosus. López–Longo FJ, et al. **Lupus** 1997;6(1):32–9

Primary antiphospholipid syndrome emerging following thymectomy for myasthenia gravis: additional evidence for the kaleidoscope of autoimmunity [see comments] Shoenfeld Y, et al. **Lupus** 1997;6(5):474–6. Comment in: Lupus 1997 ;6(5):419.

Monoclonal anti–DNA antibodies: structure, specificity, and biology. Marion TN, et al. **Methods** 1997 Jan;11(1):3–11

The autoimmune response induced by immunising female mice with recombinant human thyrotropin receptor varies with the genetic background. Costagliola S, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):199–206

The autoimmune basis of adrenocortical destruction in Addison's disease. Winqvist O, et al. **Mol Med Today** 1996 Jul;2(7):282–9 (41 ref.)

Congenital rubella reinfection in a mother with anti–cardiolipin and anti–platelet antibodies. Barfield W, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):249–51

Expression of a second receptor rescues self–specific T cells from thymic deletion and allows activation of autoreactive effector function. Zal T, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9102–7

Absence of LKM–1 antibody reactivity in autoimmune and hepatitis–C–related chronic liver disease in Sweden. Swedish Internal Medicine Liver club. Lindgren S, et al. **Scand J Gastroenterol** 1997 Feb;32(2):175–8

Autoimmune responses in peripheral nerve. Hartung HP, et al. **Springer Semin Immunopathol** 1996;18(1):97–123 (237 ref.)

Antisperm antibody and Klinefelter syndrome: does autoimmunity play a role in the pathogenesis? Sengül A, et al. **Urol Int** 1996;57(2):77–9

Delineating physiological (natural) autoreactivity from pathological autoimmunity. Kazatchkine MD. **Vox Sang** 1996;70 Suppl 1:24–9 (16 ref.)

[Costimulatory molecules in autoimmunity: role of CD28/CTLA4–CD80/CD86] Nakajima A, et al. **Nippon Rinsho** 1997 Jun;55(6):1419–24 (35 ref.) (Eng. Abstr.) **(Jpn)**

[The use of anti–idiotypic antibodies for correction of autoimmune response to brain protein S–100] Poletaev AB, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):508–11 **(Rus)**

[Body's responsiveness and postoperative course in patients with pulmonary tuberculosis] Konova IV, et al. **Probl Tuberk** 1996;(5):30–2 (Eng. Abstr.) **(Rus)**

[Immunogenetic mechanisms in autoimmune processes: disorders of immune regulatory mechanisms, genetic determination of autoimmunity, effector mechanisms of autoimmune processes and their therapy] Buc M. **Bratisl Lek Listy** 1996 Nov;97(11):660–8 (55 ref.) (Eng. Abstr.) **(Slo)**

[immunization and immune response to pneumococcal vaccination] Hidalgo H, et al. **Rev Med Chil** 1996 Mar; 124(3):287–92 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Hormones and autoimmunity: animal models of arthritis. Wilder RL. **Baillieres Clin Rheumatol** 1996 May; 10(2):259–71 (62 ref.)

The role of performance factors in the active avoidance–conditioning deficit in autoimmune mice. Schrott LM, et al. **Behav Neurosci** 1996 Jun;110(3):486–91

Increased anxiety behaviors in autoimmune mice. Schrott LM, et al. **Behav Neurosci** 1996 Jun;110(3):492–502

The in vivo destruction of antigen––a tool for probing and modulating an autoimmune response [editorial; comment] Lachmann PJ. **Clin Exp Immunol** 1996 Nov;106(2):187–9 . Comment on: Clin Exp Immunol 1996 Nov;106(2):243–52.

Immunoglobulins in autoimmunity: history and mechanisms of action. Dwyer JM. **Clin Exp Rheumatol** 1996 May–Jun; 14 Suppl 15:S3–7 (0 ref.)

Glycosaminoglycans in autoimmunity. Hansen C, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S59–67 (41 ref.)

Immunoglobulins and the regulation of autoimmunity through the immune network. Lacroix–Desmazes S, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S9–15 (31 ref.)

Premature ovarian failure and ovarian autoimmunity. Hoek A, et al. **Endocr Rev** 1997 Feb;18(1):107–34 (318 ref.)

Autoimmunity and reproduction. Geva E, et al. **Fertil Steril** 1997 Apr;67(4):599–611 (100 ref.)

Autoimmunity and the highway to diabetes. Price P. **Immunol Cell Biol** 1997 Feb;75(1):1–6 (56 ref.)

Structural basis of autoimmunity against G protein coupled membrane receptors. Hoebeke J. **Int J Cardiol** 1996 May; 54(2):103–11 (53 ref.)

Activation of human T cell lymphotropic virus type I–infected T cells is independent of B7 costimulation. Scholz C, et al. **J Immunol** 1996 Oct 1;157(7):2932–8

I–interleukin–2 scintigraphy: a new approach to assess disease activity in autoimmunity. Signore A, et al. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:139–44

Apoptosis and autoimmunity. Elkon KB. **J Rheumatol** 1997 Sep;24 Suppl 50:6–7 (2 ref.)

AUTOKINETIC EFFECT see **ILLUSIONS**

AUTOLOGOUS FIBRIN TISSUE ADHESIVE see **FIBRIN TISSUE ADHESIVE**

AUTOLYSIS

Absence of spontaneous autolysis of Streptococcus pneumoniae in aerobic fan culture bottles in a commercial blood culture system [letter] Casetta A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):616–7

Penicillin resistance and autolysis in enterococci. Daneo–Moore L, et al. **Microb Drug Resist** 1996 Spring; 2(1):159–61

Bacterial walls, peptidoglycan hydrolases, autolysins, and autolysis. Shockman GD, et al. **Microb Drug Resist** 1996 Spring;2(1):95–8 (19 ref.)

D–alanine deprivation of Bacillus subtilis teichoic acids is without effect on cell growth and morphology but affects the autolytic activity. Wecke J, et al.

Microb Drug Resist 1996 Spring;2(1):123–9

PATHOLOGY

Densitometric and chromatin texture parameters of hepatocyte nuclei during controlled autolysis. Zieliński KW, et al. **Anal Quant Cytol Histol** 1997 Aug;19(4):351–60

PHYSIOPATHOLOGY

Adipocere—problems in estimating the length of time since death. Rothschild MA, et al. **Med Law** 1996;15(2):329–35

AUTOMATED MEDICAL RECORDS SYSTEMS see **MEDICAL RECORDS SYSTEMS, COMPUTERIZED**

AUTOMATED MULTIPHASIC HEALTH TESTING see **MULTIPHASIC SCREENING**

AUTOMATIC DATA PROCESSING

Neonatal hearing screening with an automated auditory brainstem response screener in the infant's home. Oudesluys-Murphy AM, et al. **Acta Paediatr** 1997 Jun; 86(6):651–5

An interactive Web site providing major histocompatibility ligand predictions: application to HIV research. De Groot AS, et al. **AIDS Res Hum Retroviruses** 1997 May 1; 13(7):529–31

Misclassification model for person–time analysis of automated medical care databases. Mullooly JP. **Am J Epidemiol** 1996 Oct 15;144(8):782–92

Computer-generated prescription forms for discharge medications. Gannon PM, et al.
Am J Health Syst Pharm 1996 Dec 15;53(24):2976–7

A computerised method of monitoring and assessing undergraduate clinical activity. Oliver RG, et al.
Br Dent J 1996 Oct 19;181(8):279–82

Representing the assessment process for psychodynamic psychotherapy within a computerized model of human classification. Buckingham CD, et al. **Br J Med Psychol** 1997 Mar;70 (Pt 1):1–16

Deconvolution: a novel signal processing approach for determining activation time from fractionated electrograms and detecting infarcted tissue. Ellis WS, et al.
Circulation 1996 Nov 15;94(10):2633–40

Format-independent data collection forms. Singer SW, et al. **Control Clin Trials** 1995 Dec;16(6):363–76

The TMS–1 corneal topography measurement applied to calibrated ellipsoidal convex surfaces. Douthwaite WA, et al. **Cornea** 1996 Mar;15(2):147–53

Web alert. Signalling mechanisms. Burke JF, et al.
Curr Opin Neurobiol 1997 Jun;7(3):305

Automated assessment of numerical chromosomal aberrations in paraffin embedded prostate tumor cells stained by in situ hybridization. Mesker WE, et al. **Cytometry** 1996 Dec 15;26(4):298–304

Immobilization of primary astrocytes and neurons for online monitoring of biochemical processes by NMR. Alves PM, et al. **Dev Neurosci** 1996;18(5–6):478–83

Parallel processing in the search for extraterrestrial intelligence. Cullers DK.
Electroencephalogr Clin Neurophysiol Suppl 1996;45:123–33

Computer-based recognition of EEG patterns. Ktonas PY.
Electroencephalogr Clin Neurophysiol Suppl 1996;45:23–35 (48 ref.)

HRMS Sky Survey techniques: separating the rare interesting signal from the multitude of background signals. Olsen ET, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996; 45:135–6

Computers and process description for community mental health care. Bale R, et al. **Epidemiol Psichiatr Soc** 1997 Jan–Apr;6(1 Suppl):81–90

Computer analyses reveal a hobo-like element in the nematode Caenorhabditis elegans, which presents a conserved transposase domain common with the Tc1–Mariner transposon family. Bigot Y, et al. **Gene** 1996 Oct 3;174(2):265–71

Second electronic glycoscience conference [letter] Wilson I. **Glycoconj J** 1996 Jun;13(3):vi–vii

Measuring QT dispersion: man versus machine. Murray A, et al. **Heart** 1997 Jun;77(6):539–42

A macro-driven Excel template for determining the anaerobic capacity using an air-braked ergometer. Finn JP, et al. **Int J Clin Monit Comput** 1996 Aug;13(3):179–89

Patient data management systems in intensive care—1996 ESCTAIC & SCCCPMA satellite symposium. European Society of Computing and Technology in Anesthesia and Intensive Care. American society for Computing in Critical Care, Pulmonary Medicine and Anesthesia. Metnitz PG, et al. **Int J Clin Monit Comput** 1996 May;13(2):99–102

Classification by multiple-resolution statistical analysis with application to automated recognition of marine mammal sounds. Hayward TJ. **J Acoust Soc Am** 1997 Mar; 101(3):1516–26

Stepwise regression is an alternative to splines for fitting noisy data. Burkholder TJ, et al. **J Biomech** 1996 Feb;29(2):235–8

Computerized assessment of sustained attention: interactive effects of task demand, noise, and anxiety. Ballard JC.
J Clin Exp Neuropsychol 1996 Dec;18(6):864–82

Automated system for detailed measurement of respiratory mechanics. Green MD, et al. **J Clin Monit** 1996 Jan; 12(1):61–7

Emotion-abstraction patterns in verbatim protocols: a new way of describing psychotherapeutic processes.
Mergenthaler E. **J Consult Clin Psychol** 1996 Dec; 64(6):1306–15

Development of a method for studying thematic content of psychotherapy sessions. Richards PS, et al.
J Consult Clin Psychol 1996 Aug;64(4):701–11

Computed radiography excretory urography: can the system sensitivity value be used as an image quality indicator? Andoh K, et al. **J Digit Imaging** 1997 Aug;10(3):132–6

Systematic identification of twins by computerised searches of NHS patient registers in the UK. Strachan DP, et al.
J Epidemiol Community Health 1997 Feb;51(1):96–100

Can a hospital be like a supermarket? Better data will provide cost controls, efficiencies, and income streams. Fox KA.
J Health Care Finance 1997 Spring;23(3):44–8 (6 ref.)

Processing haematological data on a network environment. Ag Z, et al. **Malays J Pathol** 1995 Dec;17(2):77–81

Total and partial coherence analysis of spontaneous and evoked EEG by means of multi-variable autoregressive processing. Liberati D, et al. **Med Biol Eng Comput** 1997 Mar;35(2):124–30

Self-organising discovery, recognition and prediction of haemodynamic patterns in the intensive care unit. Spencer RG, et al. **Med Biol Eng Comput** 1997 Mar;35(2):117–23

Signal-space projection method for separating MEG or EEG into components. Uusitalo MA, et al.
Med Biol Eng Comput 1997 Mar;35(2):135–40

EDI system definition for a European medical device vigilance system. Doukidis G, et al. **Med Inf (Lond)** 1996 Jul–Sep;21(3):233–44

Improving coded data entry by an electronic patient record system. Hohnloser JH, et al. **Methods Inf Med** 1996 Jun; 35(2):108–11

Coding clinical information: analysis of clinicians using computerized coding. Hohnloser JH, et al.
Methods Inf Med 1996 Jun;35(2):104–7

On-line urea kinetics in haemodiafiltration. Santoro A, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1084–92

A novel classification of planar four-bar linkages and its application to the mechanical analysis of animal systems. Muller M. **Philos Trans R Soc Lond B Biol Sci** 1996 May 29;351(1340):689–720

Mortality trends by cause of death in England and Wales 1980–94: the impact of introducing automated cause coding and related changes in 1993. Rooney C, et al.
Popul Trends 1996 Winter;(86):29–35

Mapping medical vocabularies to the Unified Medical Language System. Zeng Q, et al.
Proc AMIA Annu Fall Symp 1996;:105–9

Computer classification of state in healthy preterm neonates. Scher MS, et al. **Sleep** 1997 Feb;20(2):132–41

Electronic filing. **Tex Med** 1997 Jan;93(1):39–40

Survey of sociodemographic characteristics of tobacco use among 99,598 individuals in Bombay, India using handheld computers. Gupta PC. **Tob Control** 1996 Summer; 5(2):114–20

Influence of data processing on cyclic variation of integrated backscatter and wall thickness in stunned porcine myocardium. van der Steen AF, et al.
Ultrasound Med Biol 1997;23(3):405–14

Pyrolysis mass spectrometry: data processing in classification studies. Magee JT. **Zentralbl Bakteriol** 1997 Jan; 285(2):182–94

[Qualitative methods in empirical health research. V. Analyzing data and coding procedures] Maunsbach M, et al. **Nord Med** 1997 Jun;112(6):216–20 (Eng. Abstr.) **(Dan)**

[EDP registration of the types of tests, working procedures and diagnosis in a department of histopathology. Minimum dataset for assessment of the workload (see comments)] Bjerregaard B, et al. **Ugeskr Laeger** 1997 Mar 24; 159(13):1924–8 (Eng. Abstr.). Comment in: Ugeskr Laeger 1997 Jun 9;159(24):3798–9. **(Dan)**

[Criteria of good manufacturing practice conforming electronic data processing] Gabriel C.
Beitr Infusionsther Transfusionsmed 1996;33:257–64 (Eng. Abstr.) **(Ger)**

[Digital handwriting recognition in data collection for autopsy reports with an Apple Newton] Schweitzer W, et al. **Pathologe** 1996 Sep;17(5):399–402 **(Ger)**

[Electronic data processing in a surgical and medical intensive care unit] Thierolf C, et al. **Zentralbl Chir** 1996; 121(7):529–34 (Eng. Abstr.) **(Ger)**

[Coded radiologic reports—a two-edged sword] Barzilai M.
Harefuah 1996 May 15;130(10):722–4 **(Heb)**

[The quality of hospital discharge data in the Venice general hospital: methods and evaluation in the development of the Diagnosis Related Groups System] Selle V, et al.
Epidemiol Prev 1995 Dec;19(65):342–8 (Eng. Abstr.) **(Ita)**

[The data processing of neurophysiological examination and the diagnostic support system] Ishiyama Y.
Rinsho Byori 1997 May;45(5):430–7 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Digital filing system for medical image data] Mitani M, et al. **Rinsho Byori** 1997 May;45(5):447–55 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Computer analysis of nystagmus] Janczewski G, et al.
Otolaryngol Pol 1996;50(4):428–34 (Eng. Abstr.) **(Pol)**

[National Register of Rheumatic Diseases in Children. The Spanish group of pediatric rheumatology]
An Esp Pediatr 1996 Oct;45(4):346–50 **(Spa)**

ECONOMICS

Comparison of manual and bar-code systems for documenting pharmacists' interventions. Kanmaz TJ, et al.
Am J Health Syst Pharm 1997 Jul 15;54(14):1623–6

[Integration of electronic data processing in clinical follow-up—or adaptation of clinical follow-up to electronic data processing. Meanwhile a question of economic survival?] Gesenhues T, et al.
Geburtshilfe Frauenheilkd 1996 Aug;56(8):M120–5 **(Ger)**

INSTRUMENTATION

A detailed study of the effect of videoframe rates of 25, 30 and 60 Hertz on human sperm movement characteristics. Morris AR, et al. **Hum Reprod** 1996 Feb;11(2):304–10

Bar code documentation of pharmacotherapy services in intensive care units. Zarowitz BJ, et al.
Pharmacotherapy 1996 Mar–Apr;16(2):261–6

METHODS

Estimation of skin prick test reactions with a scanning program. Pijnenborg H, et al. **Allergy** 1996 Nov; 51(11):782–8

The effect of vibroacoustic stimulation on fetal heart rate parameters utilizing computer analysis. Barton JR, et al.
Am J Perinatol 1997 Apr;14(4):229–32

Evaluation of Biolog system for identification of strains of Paenibacillus azotofixans. Pires MN, et al.
Antonie Van Leeuwenhoek 1997 Mar;71(3):195–200

A computer simulation of the transmission dynamics and the effects of duration of immunity and survival of persistently infected animals on the spread of bovine viral diarrhoea virus in dairy cattle. Innocent G, et al.
Epidemiol Infect 1997 Aug;119(1):91–100

Computer classification of screening study of risk factor for ischemic heart disease in 20–60 year old subjects. Valkov Y. **Folia Med (Plovdiv)** 1996;38(1):45–8

Computer-based diagnosis support for the interpretation of Hess charts. Lang E, et al. **Ger J Ophthalmol** 1996 Sep; 5(5):294–9

A detailed study of the effect of videoframe rates of 25, 30 and 60 Hertz on human sperm movement characteristics. Morris AR, et al. **Hum Reprod** 1996 Feb;11(2):304–10

Evaluation of performance of the RIBA processor system for automated analysis of the strip immunoblot assay for detection of antibodies to hepatitis C virus. Icardi G, et al. **J Clin Microbiol** 1997 Sep;35(9):2331–6

Classification of normal and abnormal lungs with interstitial diseases by rule-based method and artificial neural networks. Katsuragawa S, et al. **J Digit Imaging** 1997 Aug; 10(3):108–14

Clinical evaluation of irreversible data compression for computed radiography in excretory urography. Uchida K, et al. **J Digit Imaging** 1996 Aug;9(3):145–9

Interactive and dynamic ECG analysis. Is it just an IDEA or a clinically relevant approach? Fayn J, et al.
J Electrocardiol 1996;29 Suppl:21–5

Development of a new approach to serial analysis. The manufacturer's viewpoint. Hedstrom K, et al.
J Electrocardiol 1996;29 Suppl:35–40 (11 ref.)

Validation of a new computer program for Minnesota coding. Kors JA, et al. **J Electrocardiol** 1996;29 Suppl:83–8

Automated serial ECG comparison based on the Minnesota code. Macfarlane PW, et al. **J Electrocardiol** 1996;29 Suppl:29–34 (22 ref.)

Techniques for improving overall consistency of serial ECG analysis. McLaughlin SC, et al. **J Electrocardiol** 1996;29 Suppl:41–5

Computer versus manual measurement of ST-segment deviation [corrected and republished in J Electrocardiol 1997 Apr;30(2):151–6] Pelter MM, et al.
J Electrocardiol 1996;29 Suppl:78–82

Analysis of interval measurements on CSE multilead reference ECGs. Reddy BR, et al. **J Electrocardiol** 1996; 29 Suppl:62–6

Are serial Holter QT, late potential, and wavelet measurement clinically useful? Rubel P, et al.
J Electrocardiol 1996;29 Suppl:52–61 (36 ref.)

Automated analysis of intracardiac electrograms obtained during extrastimulus tests using a three-dimensional electrophysiology model. Tong DA, et al.
J Electrocardiol 1996;29 Suppl:202–13

Dispersion of ventricular repolarization in hypertrophic cardiomyopathy. Zaidi M, et al. **J Electrocardiol** 1996;29 Suppl:89–94

Influence of ECG measurement accuracy on ECG diagnostic statements. Zywietz C, et al. **J Electrocardiol** 1996;29 Suppl:67–72

Computer administration of a school-based adolescent health survey [see comments] Hibbert ME, et al.
J Paediatr Child Health 1996 Oct;32(5):372–7. Comment in: J Paediatr Child Health 1996 Oct;32(5):371.

An automatic sleep-stage analysis system with off-line high-speed processing using a super mini-computer. Kuwahara H, et al. **Kurume Med J** 1996;43(3):243–8

Clinical quality measurement. Comparing chart review and automated methodologies. Dresser MV, et al. **Med Care** 1997 Jun;35(6):539–52

Structured data entry for reliable acquisition of pharmacokinetic data. Zellner D, et al.

Methods Inf Med 1996 Sep;35(3):261–4
Comparison of the results of skin prick tests, CAP system and ENEA system in the diagnosis of food allergy. Ispano M, et al. **Monogr Allergy** 1996;32:181–6
Towards a human crystallin map. Two-dimensional gel electrophoresis and computer analysis of water-soluble crystallins from normal and cataractous human lenses. Bloemendal H, et al. **Ophthalmic Res** 1997;29(4):177–90
Organizing, storing, and analysing qualitative research information in a computer database. Mainz J, et al. **Scand J Prim Health Care** 1997 Mar;15(1):7–9
Computational analysis of the ductus venosus fluid dynamics based on Doppler measurements. Pennati G, et al. **Ultrasound Med Biol** 1996;22(8):1017–29
[Integrated data processing systems for a functional diagnostic service] Sakhno IuF, et al. **Med Tekh** 1996 Jan–Feb;(1):36–9 (Eng. Abstr.) **(Rus)**
[Computerization of the research into radionuclide dynamics in the forest ecosystems contaminated as a result of the Chernobyl accident (1986–1995)] Mamikhin SV, et al. **Radiats Biol Radioecol** 1996 Jul–Aug;36(4):516–23 (Eng. Abstr.) **(Rus)**

STANDARDS

A blood center communication plan and guideline for assisting hospitals with the implementation of the new international uniform bar code–labeling standard. Kerr MJ. **Transfusion** 1997 Sep;37(9):965–9

TRENDS

[The university and electronics (editorial)] Forattini OP. **Rev Saude Publica** 1995 Dec;29(6):425–7 **(Por)**

AUTOMATION

Automating surgical departments' pharmaceutical dispensing systems. Lewis JA, et al. **AORN J** 1997 Apr;65(4):800–4
Robots for surgeons or surgeons for robots? [editorial] Rabischong P. **Comput Aided Surg** 1997;2(1):3–4
Health services organizations computer innovation. Ready or not? Snyder-Halpern R. **Comput Nurs** 1997 May–Jun; 15(3):147–52; quiz 153–4 (22 ref.)
Trust in automation. Part II. Experimental studies of trust and human intervention in a process control simulation. Muir BM, et al. **Ergonomics** 1996 Mar;39(3):429–60
Accuracy of four automatic QT measurement techniques in cardiac patients and healthy subjects. McLaughlin NB, et al. **Heart** 1996 Nov;76(5):422–6
Training older adults to use automatic teller machines. Rogers WA, et al. **Hum Factors** 1996 Sep;38(3):425–33
[Merits and demerits of automation ophthalmic instruments (editorial)] Otori T. **Nippon Ganka Gakkai Zasshi** 1997 May;101(5):369–70 (4 ref.) **(Jpn)**
[Mobile mining machines as example of autonomic complex automatization in industrial medicine] Retnev VM, et al. **Med Tr Prom Ekol** 1997;(4):29–31 **(Rus)**

INSTRUMENTATION

A sub-cybernetic sample handling and analytical system for the clinical chemistry laboratory. Yasuda K, et al. **Clin Biochem** 1996 Jun;29(3):273–7
Enzyme-linked immunosorbent assays in a chromatographic format. Johns MA, et al. **J Chromatogr A** 1996 Aug 30; 743(1):195–206

METHODS

Automation of the Papanicolaou smear: a technology assessment perspective. Linder J. **Arch Pathol Lab Med** 1997 Mar;121(3):282–6 (30 ref.)
An automatable microassay for phenyl valerate esterase activities sensitive to organophosphorus compounds. Escudero MA, et al. **Toxicol Lett** 1996 Dec 31;89(3):241–7

AUTOMATION, OFFICE see **OFFICE AUTOMATION**

AUTOMATISM

Effortful and automatic processes associated with Down syndrome and nonspecific mental retardation. Dulaney CL, et al. **Am J Ment Retard** 1996 Jan;100(4):418–23
Semantic priming in Broca's aphasics at a short SOA: no support for an automatic access deficit. Hagoort P. **Brain Lang** 1997 Feb 1;56(2):287–300
Automatic retrieval of new associations under shallow encoding conditions. Reingold EM, et al. **Conscious Cogn** 1996 Mar–Jun;5(1–2):117–30
Specifying the relations between automaticity and consciousness: a theoretical note. Tzelgov J. **Conscious Cogn** 1997 Jun–Sep;6(2–3):441–51 (70 ref.)
Noncriterial recollection: familiarity as automatic, irrelevant recollection. Yonelinas AP, et al. **Conscious Cogn** 1996 Mar–Jun;5(1–2):131–41
Using numerosity judgments to determine what is learned during automatization. Green JT. **J Exp Psychol Learn Mem Cogn** 1997 Jul;23(4):1046–52
Recollective and automatic uses of memory. Nelson DL, et al. **J Exp Psychol Learn Mem Cogn** 1997 Jul;23(4):872–85
Highest level automatisms in the nervous system: a theory of functional principles underlying the highest forms of brain function. Baev KV. **Prog Neurobiol** 1997 Feb; 51(2):129–66 (74 ref.)
[Complex partial seizures: the localization value of automatisms] Bertol V, et al. **Rev Neurol** 1997 Mar; 25(139):456–9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Automatisms in non common law countries. Falk-Pedersen JK. **Med Law** 1997;16(2):359–65
Epilepsy, automatism and the English law. Fenwick P. **Med Law** 1997;16(2):349–58
Epilepsy its place as a legal defence. Heinz-Dietrich. **Med Law** 1997;16(2):413–20

ETIOLOGY

[Automatic movements of extremities induced in primary massive brain lesion with apneic coma] Nokura K, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):198–207 (Eng. Abstr.) **(Jpn)**

HISTORY

Marshall Hall and the concepts of reflex action. Pearce JM. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):228

PSYCHOLOGY

Hypnotic involuntariness and the automaticity of everyday life. Kirsch I, et al. **Am J Clin Hypn** 1997 Jul;40(1):329–48 (60 ref.)
Hypnotizability, the dissociative experiences scale, HGSHS: A amnesia, and automatic writing: is there an association? Green JP. **Int J Clin Exp Hypn** 1997 Jan;45(1):69–80
Automaticity and hypnosis: a sociocognitive account. Lynn SJ. **Int J Clin Exp Hypn** 1997 Jul;45(3):239–50 (33 ref.)
Arson and epilepsy. Brook R, et al. **Med Sci Law** 1996 Jul; 36(3):268–71

AUTOMOBILE DRIVER EXAMINATION

Does license disqualification reduce reoffence rates? Siskind V. **Accid Anal Prev** 1996 Jul;28(4):519–24
Mental impairment and driving licences for elderly people—a survey among Norwegian general practitioners. Braekhus A, et al. **Scand J Prim Health Care** 1996 Dec;14(4):223–8
[Problems in traffic medicine in hospital and everyday practice: able to drive?] Hauri-Bionda R, et al. **Ther Umsch** 1997 May;54(5):255–62 (Eng. Abstr.) **(Ger)**
[Problems in the assessment of driving capability in family practice] Seeger R. **Ther Umsch** 1997 May;54(5):242–54 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Integrated use of hair analysis to investigate the physical fitness to obtain the driving licence: a casework study. Tagliaro F, et al. **Forensic Sci Int** 1997 Jan 17; 84(1–3):129–35

AUTOMOBILE DRIVING

see related
ACCIDENTS, TRAFFIC
MOTOR VEHICLES

Estimating the exposure and fatal crash rates of suspended/revoked and unlicensed drivers in California. DeYoung DJ, et al. **Accid Anal Prev** 1997 Jan;29(1):17–23
The effect of time headway feedback on following behaviour. Fairclough SH, et al. **Accid Anal Prev** 1997 May; 29(3):387–97
A comparison of driver behavior at railroad grade crossings with two different protection systems. Meeker F, et al. **Accid Anal Prev** 1997 Jan;29(1):11–6
Anti-lock brake system: an assessment of training on driver effectiveness. Mollenhauer MA, et al. **Accid Anal Prev** 1997 Jan;29(1):97–108
What surviving drivers learn from a fatal road accident. Rajalin S, et al. **Accid Anal Prev** 1997 May;29(3):277–83
An investigation of behavioural adaptation to airbags and antilock brakes among taxi drivers. Sagberg F, et al. **Accid Anal Prev** 1997 May;29(3):293–302
Role of disease in initiating the crashes of fatally injured drivers. Sjögren H, et al. **Accid Anal Prev** 1996 May; 28(3):307–14
Drinking and driving prevention in the community: program planning and implementation. Voas RB. **Addiction** 1997 Jun;92 Suppl 2:S201–19
The effect of drinking and driving interventions on alcohol-involved traffic crashes within a comprehensive community trial. Voas RB, et al. **Addiction** 1997 Jun;92 Suppl 2:S221–36
Decreased incidence of sexually transmitted diseases among trucking company workers in Kenya: results of a behavioural risk-reduction programme. Jackson DJ, et al. **AIDS** 1997 Jun;11(7):903–9
Attentional problems and older drivers. Ball K. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:42–7 (33 ref.)
Simulators for assessing driving skills in demented patients. Bylsma FW. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:17–20 (15 ref.)
Motor vehicle crashes and drivers with DAT. Carr DB. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:38–41
Evaluating the 'driving competence of dementia patients. Dobbs AR. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:8–12
The role of selective attention in driving and dementia of the Alzheimer type. Duchek JM, et al. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:48–56 (32 ref.)
Safe mobility for people with Alzheimer disease: a commentary. Eberhard JW. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:76–7
The demented driver: the doctor's dilemma. Fitten LJ. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:57–61 (15 ref.)
Strategies for driving cessation in Alzheimer Disease. Friedland RP. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:73–5 (8 ref.)
Environmental cueing may effect performance on a road test for drivers with dementia of the Alzheimer type. Hunt LA, et al. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:13–6
The 1994 International Consensus Conference on Dementia and Driving: a brief report. Johansson K, et al. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:62–9
Crashes: outcome of choice in assessing driver safety? Marottoli RA. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:28–30 (23 ref.)
Predicting and coping with the consequences of stopping driving. O'Neill D. **Alzheimer Dis Assoc Disord** 1997 Jun; 11 Suppl 1:70–2 (22 ref.)
Clinical and research issues on older drivers: future directions. Owsley. **Alzheimer Dis Assoc Disord** 1997 Jun; 11 Suppl 1:3–7 (34 ref.)
Automobile insurance and the mentally impaired driver. Ray ER. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:78–80
Driving with Alzheimer disease: the anatomy of a crash. Reinach SJ, et al. **Alzheimer Dis Assoc Disord** 1997 Jun; 11 Suppl 1:21–7
Concerned Americans for responsible driving (CARD): a personal narrative. Suroff SE. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:81–3
Cognitive change, medical illness, and crash risk among older drivers: an epidemiological consideration. Wallace RB. **Alzheimer Dis Assoc Disord** 1997 Jun;11 Suppl 1:31–7 (18 ref.)
Quality of life and driving in recipients of the implantable cardioverter-defibrillator. Jung W, et al. **Am J Cardiol** 1996 Sep 12;78(5A):51–6
Traumatic thrombophlebitis of the superficial dorsal vein of the penis: an occupational hazard. Bird V, et al. **Am J Emerg Med** 1997 Jan;15(1):67–9
Suicide by gunshot while driving a motor vehicle. Two additional cases. Murphy GK. **Am J Forensic Med Pathol** 1997 Sep;18(3):295–8 (8 ref.)
Effects of prolonged autovehicle driving on male reproduction function: a study among taxi drivers. Figà-Talamanca I, et al. **Am J Ind Med** 1996 Dec; 30(6):750–8
Encephalopathy and peripheral neuropathy following carbon monoxide poisoning from a propane-fueled vehicle. Kelafant GA. **Am J Ind Med** 1996 Dec;30(6):765–8
Off-road driving evaluations for persons with cerebral injury: a factor analytic study of predriver and simulator testing. Galski T, et al. **Am J Occup Ther** 1997 May;51(5):352–9
Impact of vestibular disorders on fitness to drive: a census of the American Neurotology Society. Parnes LS, et al. **Am J Otol** 1997 Jan;18(1):79–85
Along for the ride: the prevalence of motor vehicle passengers riding with drivers who have been drinking in an American Indian population. Oken E, et al. **Am J Prev Med** 1995 Nov–Dec;11(6):375–80
Mistaken assertions on reducing motor vehicle injury [comment] Robertson LS. **Am J Public Health** 1997 Feb; 87(2):295–6. Comment on: Am J Public Health 1996 Jun;86(6):784–6.
Natural disease and alcohol intoxication amongst drivers of motor vehicles in Singapore from 1989 to 1993: a study of 140 necropsies. Lau G. **Ann Acad Med Singapore** 1996 Jul;25(4):516–21
Driving histories of ADHD subjects. National Highway Traffic Safety Administration. **Ann Emerg Med** 1997 Apr; 29(4):546–7; discussion 547–8
Blood alcohol concentration and driving. American College of Emergency Physicians. **Ann Emerg Med** 1997 Jun; 29(6):835
Reliability of the Washington University Road Test. A performance-based assessment for drivers with dementia of the Alzheimer type. Hunt LA, et al. **Arch Neurol** 1997 Jun;54(6):707–12
Simulated car crashes and crash predictors in drivers with Alzheimer disease. Rizzo M, et al. **Arch Neurol** 1997 May; 54(5):545–51
Trace elements in scalp hair of professional drivers and university teachers in Hong Kong. Man AC, et al. **Biol Trace Elem Res** 1996 Summer;53(1–3):241–7
Many children remain unrestrained in cars [letter; comment] Campbell H, et al. **BMJ** 1997 May 17;314(7092):1483. Comment on: BMJ 1997 Feb 8;314(7078):392.
Children in cars [editorial] [see comments] Roberts I, et al. **BMJ** 1997 Feb 8;314(7078):392. Comment in: BMJ 1997 May 17;314(7092):1483.
Impact of cataract surgery on car driving: a population based study in Sweden. Mönestam E, et al. **Br J Ophthalmol** 1997 Jan;81(1):16–22
Cataract and driving [editorial] Munton G.

Br J Ophthalmol 1997 Jan;81(1):3–4

Objective measurement of sleepiness in summer vacation long–distance drivers. Philip P, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 102(5):383–9

Professional privilege, driving and epilepsy, the doctor's responsibility. Beran RG. **Epilepsy Res** 1997 Mar; 26(3):415–21

Drivers' fatigue studies. Milošević S. **Ergonomics** 1997 Mar; 40(3):381–9

Choice of time–headway in car–following and the role of time–to–collision information in braking. Van Winsum W, et al. **Ergonomics** 1996 Apr;39(4):579–92

Comprehensive drug screening in blood for detecting abused drugs or drugs potentially hazardous for traffic safety. Lillsunde P, et al. **Forensic Sci Int** 1996 Feb 9;77(3):191–210

Driving and dementia: dilemmas and decisions. Adler G. **Geriatrics** 1997 Sep;52 Suppl 2:S26–9 (12 ref.)

Effects of age, system experience, and navigation technique on driving with an advanced traveler information system. Dingus TA, et al. **Hum Factors** 1997 Jun;39(2):177–99

Human factors field evaluation of automotive headway maintenance/collision warning devices. Dingus TA, et al. **Hum Factors** 1997 Jun;39(2):216–29

Effect of selected in–vehicle route guidance systems on driver reaction times. Srinivasan R, et al. **Hum Factors** 1997 Jun;39(2):200–15

On–line monitoring of benzene air concentrations while driving in traffic by means of isotopic dilution gas chromatography/mass spectrometry. Davoli E, et al. **Int Arch Occup Environ Health** 1996;68(4):262–7

Electrocortical responses to ecologically relevant visual stimuli among professional drivers with and without cardiovascular disease. Emdad R, et al. **Integr Physiol Behav Sci** 1996 Apr–Jun;31(2):96–111

Road humps: accident prevention or hazard? Bowrey D, et al. **J Accid Emerg Med** 1996 Jul;13(4):288–9

Medical screening of older drivers [letter; comment] Bédard M, et al. **J Am Geriatr Soc** 1997 Mar;45(3):388–9. Comment on: J Am Geriatr Soc 1996 Jun;44(6):650–3.

Alzheimer's disease and driving: prediction and assessment of driving performance. Fox GK, et al. **J Am Geriatr Soc** 1997 Aug;45(8):949–53

Traffic dangerous drugs are often found in fatally injured older male drivers [letter] Johansson K, et al. **J Am Geriatr Soc** 1997 Aug;45(8):1029–31

Driving performance in older in–patients [letter] Püllen R, et al. **J Am Geriatr Soc** 1997 Jun;45(6):781–2

Visual–field measurements and driving eligibility. Eldred KB, et al. **J Am Optom Assoc** 1997 Feb;68(2):109–15

Medical team coverage of motor sports events. Hunter HC. **J Am Osteopath Assoc** 1996 Mar;96(3):179–80

Interfering substances identified in the breath of drinking drivers with Intoxilyzer 5000S. Jones AW. **J Anal Toxicol** 1996 Nov–Dec;20(7):522–7

Driving with an internal defibrillator: legal, ethical, and quality–of–life issues. Finch NJ, et al. **J Cardiovasc Nurs** 1997 Jan;11(2):58–67

Psychophysiology of posttraumatic stress disorder related to motor vehicle accidents: replication and extension. Blanchard EB, et al. **J Consult Clin Psychol** 1996 Aug; 64(4):742–51

Evaluation of a dutch educational "Driving While Intoxicated (DWI)" prevention program for driving schools. Kayser RE, et al. **J Drug Educ** 1995;25(4):379–93

A three year outcome evaluation of a theory based drink driving education program. Sheehan M, et al. **J Drug Educ** 1996;26(3):295–312

Exposure to volatile organic compounds in the passenger compartment of automobiles during periods of normal and malfunctioning operation. Lawryk NJ, et al. **J Expo Anal Environ Epidemiol** 1995 Oct–Dec;5(4):511–31

Variability of the blood/breath alcohol ratio in drinking drivers. Jones AW, et al. **J Forensic Sci** 1996 Nov; 41(6):916–21

Influence of age, gender, and blood–alcohol concentration on the disappearance rate of alcohol from blood in drinking drivers. Jones AW, et al. **J Forensic Sci** 1996 Nov; 41(6):922–6

Everyday murder [letter] Davis GJ. **J Ky Med Assoc** 1997 Jun;95(6):246

Recalling routes around london: activation of the right hippocampus in taxi drivers. Maguire EA, et al. **J Neurosci** 1997 Sep 15;17(18):7103–10

Eyesight and the elderly [letter; comment] Schoeffler LE. **J Okla State Med Assoc** 1996 Oct;89(10):379. Comment on: J Okla State Med Assoc 1996 Aug;89(8):263.

Reporting of vestibular patients who are unfit to drive: survey of Canadian otolaryngologists. Sindwani R, et al. **J Otolaryngol** 1997 Apr;26(2):104–11

Determinants of sleepiness in automobile drivers. Philip P, et al. **J Psychosom Res** 1996 Sep;41(3):279–88

Development of instrumentation and protocol to measure the dynamic environment of a modified van. Linden M, et al. **J Rehabil Res Dev** 1996 Feb;33(1):23–9

Factors in adolescent drinking/driving: binge drinking, cigarette smoking, and gender. Copeland LA, et al. **J Sch Health** 1996 Sep;66(7):254–60

Sleepiness and driving: the experience of UK car drivers. Maycock G. **J Sleep Res** 1996 Dec;5(4):229–37

Identification of the motor vehicle accident victim who abuses alcohol: an opportunity to reduce trauma. Mancino M, et al. **J Stud Alcohol** 1996 Nov;57(6):652–8

Driving under the influence of acetone [letter] Jones AW. **J Toxicol Clin Toxicol** 1997;35(4):419–21

Benzodiazepine use and the risk of motor vehicle crash in the elderly [see comments] Hemmelgarn B, et al. **JAMA** 1997 Jul 2;278(1):27–31. Comment in: JAMA 1997 Jul 2;278(1):66–7.

Wake–up call aimed at drowsy drivers: message is 'drive alert, arrive alive' [news] Lamberg L. **JAMA** 1996 Oct 16;276(15):1209–10

Prevalence of alcohol–impaired driving. Results from a national self–reported survey of health behaviors [see comments] Liu S, et al. **JAMA** 1997 Jan 8;277(2):122–5. Comment in: JAMA 1997 Apr 23–30;277(16):1279; discussion 1280. Comment in: JAMA 1997 Apr 23–30;277(16);1279–80; discussion 1280.

Safety and mobility of the older driver: a research challenge [editorial; comment] Ray WA. **JAMA** 1997 Jul 2; 278(1):66–7. Comment on: JAMA 1997 Jul 2;278(1):27–31.

Alcohol–impaired driving: the family's tragedy and the public's health [letter; comment] Robberstad MK. **JAMA** 1997 Apr 23–30;277(16):1279–80; discussion 1280. Comment on: JAMA 1997 Jan 8;277(2):122–5.

Alcohol–impaired driving: the family's tragedy and the public's health [letter; comment] Templeton B. **JAMA** 1997 Apr 23–30;277(16):1279; discussion 1280. Comment on: JAMA 1997 Jan 8;277(2):122–5.

Dementia and driving [letter; comment] Coni NK. **Lancet** 1996 Dec 7;348(9041):1591–2. Comment on: Lancet 1996 Oct 26;348(9035):1114.

Driving and dementia: the medical perspective. Ott BR. **Med Health R I** 1996 Nov;79(11):383–7

Comparison of alcohol consumption patterns and social problems between women and men drink–drivers. Rogers DM, et al. **Med J Aust** 1997 Apr 7;166(7):358–61

Increased risk of lung cancer among male professional drivers in urban but not rural areas of Sweden. Jakobsson R, et al. **Occup Environ Med** 1997 Mar;54(3):189–93

Neuropsychological symptoms among tanker drivers exposed to gasoline. Hakkola M, et al. **Occup Med (Oxf)** 1996 Apr; 46(2):125–30

Medical assessment for licensing of taxi drivers by Scottish local authorities. Jones GC, et al. **Occup Med (Oxf)** 1997 Jan;47(1):40–4

Night myopia and driving. Charman WN. **Ophthalmic Physiol Opt** 1996 Nov;16(6):474–85 (101 ref.)

European policy on driving for patients with implantable cardioverter defibrillators. Jung W, et al. **Pacing Clin Electrophysiol** 1996 Jun;19(6):981–4

The teenage driver. American Academy of Pediatrics Committee on Injury and Poison Prevention and Committee on Adolescence. **Pediatrics** 1996 Nov; 98(5):987–90

Motor vehicle driving competencies and risks in teens and young adults with attention deficit hyperactivity disorder. Barkley RA, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1089–95

Speed and acceleration as measures of driving style in young male drivers. Lajunen T, et al. **Percept Mot Skills** 1997 Aug;85(1):3–16

Time headway in car following and operational performance during unexpected braking. van Winsum W, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1247–57

The information that drivers use: is it indeed 90% visual? Sivak M. **Perception** 1996;25(9):1081–9

Syncope: driving advice is frequently overlooked. MacMahon M, et al. **Postgrad Med J** 1996 Sep; 72(851):561–3

Counteracting driver sleepiness: effects of napping, caffeine, and placebo. Horne JA, et al. **Psychophysiology** 1996 May; 33(3):306–9

Age and gender differences in perceived accident likelihood and driver competences. Glendon AI, et al. **Risk Anal** 1996 Dec;16(6):755–62

Driving and diabetics on insulin therapy. Distiller LA, et al. **S Afr Med J** 1996 Aug;86(8 Suppl):1018–20 (15 ref.)

Psychosocial job factors associated with back and neck pain in public transit operators. Krause N, et al. **Scand J Work Environ Health** 1997 Jun;23(3):179–86

Exercise testing of young, apparently healthy professional drivers. Uglješić M, et al. **Scand J Work Environ Health** 1996 Jun;22(3):211–5

Comparison of simulated driving performance in narcolepsy and sleep apnea patients. George CF, et al. **Sleep** 1996 Nov; 19(9):711–7

Effect of sleep deprivation on driving safety in housestaff. Marcus CL, et al. **Sleep** 1996 Dec;19(10):763–6

Prolapsed cervical intervertebral disc in male professional drivers in Denmark, 1981–1990. A longitudinal study of hospitalizations. Jensen MV, et al. **Spine** 1996 Oct 15; 21(20):2352–5

Are occupational drivers at an increased risk for developing musculoskeletal disorders? Magnusson ML, et al. **Spine** 1996 Mar 15;21(6):710–7

Effects of nasal CPAP on simulated driving performance in patients with obstructive sleep apnoea. George CF, et al. **Thorax** 1997 Jul;52(7):648–53

Automobile crashes and sleep. Findley LJ, et al. **Va Med Q** 1996 Fall;123(4):258–9

Driving and dementia California's approach to a medical and policy dilemma. Reuben DB, et al. **West J Med** 1996 Feb; 164(2):111–21

Physicians' responsibility to assess patients' ability to operate a motor vehicle. Dart RA. **Wis Med J** 1997 Aug;96(8):15–6

[Use of cellular telephones and automobile driving] Olsen J. **Ugeskr Laeger** 1997 May 5;159(19):2881 **(Dan)**

[Urinary screening of drugs of abuse among drivers involved in road accidents] Pélissier AL, et al. **Ann Biol Clin (Paris)** 1996;54(10–11):365–71 (Eng. Abstr.) **(Fre)**

[Driver's license, driving habits and traffic safety of patients with diabetes mellitus] Brunner GA, et al. **Wien Klin Wochenschr** 1996 Nov 29;108(22):731–6 (Eng. Abstr.) **(Ger)**

[Falling asleep at the wheel: chronicle of a predicatable accident (editorial)] Lavie P. **Harefuah** 1997 Apr 15; 132(8):552–3 **(Heb)**

[Isradipine in arterial hypertension in motor vehicle drivers] Aramisova RM, et al. **Med Tr Prom Ekol** 1996;(8):21–3 (Eng. Abstr.) **(Rus)**

[Ophthalmologic causes of traffic accidents] Chernysheva SG, et al. **Med Tr Prom Ekol** 1996;(8):23–6 (Eng. Abstr.) **(Rus)**

[The 14th World Congress of International Association of traffic medicine (August 20–23, 1995, Singapore)] El'garova LV. **Med Tr Prom Ekol** 1996;(8):41–2 **(Rus)**

[State of binocular vision and comparative assessment of methods of its study in motor vehicle drivers] Iachmeneva EI, et al. **Med Tr Prom Ekol** 1996;(8):26–8 (Eng. Abstr.) **(Rus)**

[Prevention of arterial hypertension in automobile transport workers and ways of reducing traffic accidents] Inarokova AM. **Med Tr Prom Ekol** 1996;(8):6–10 (Eng. Abstr.) **(Rus)**

[State of mental processes in the evaluation of rehabilitation potential of drivers following myocardial infarct] Petrov MN, et al. **Med Tr Prom Ekol** 1996;(8):37–9 **(Rus)**

[Role of drivers' epilepsy in traffic accidents] Sabanchiev SIu, et al. **Med Tr Prom Ekol** 1996;(8):15–6 (Eng. Abstr.) **(Rus)**

[Degree of neurosis, attitude to health and disease, personal and intrapersonal conflicts in motor vehicle drivers] Taukenova LM. **Med Tr Prom Ekol** 1996;(8):34–7 **(Rus)**

[Occupational extreme stress factors determining psychological disorders in drivers] Temmoev DCh. **Med Tr Prom Ekol** 1996;(8):12–4 (Eng. Abstr.) **(Rus)**

[Visual function of automobile drivers during the workday] Tlupova TG, et al. **Med Tr Prom Ekol** 1996;(8):4–6 (Eng. Abstr.) **(Rus)**

[Effects of laser therapy on psychophysiological parameters and arterial blood pressure in drivers with hypertension] Umetov MA. **Med Tr Prom Ekol** 1996;(8):10–2 (Eng. Abstr.) **(Rus)**

[Prevention of traffic accidents involving children] Uvizheva MKh, et al. **Med Tr Prom Ekol** 1996;(8):31–3 **(Rus)**

[Traffic medicine: experience and unresolved problems] Vaĭsman AI, et al. **Med Tr Prom Ekol** 1996;(8):29–31 **(Rus)**

[Significance of psychological personality testing of motor vehicle drivers in the traffic safety system] Zhurtova MM, et al. **Med Tr Prom Ekol** 1996;(8):19–20 (Eng. Abstr.) **(Rus)**

[Binocular vision and its role in car driving] Chernysheva SG, et al. **Vestn Oftalmol** 1997 Mar–Apr;113(2):40–2 (23 ref.) **(Rus)**

[Health fitness of professional drivers and recurrence of alcoholism] Rossi–Gašparović D, et al. **Arh Hig Rada Toksikol** 1996 Jun;47(2):177–88 (Eng. Abstr.) **(Scr)**

[Study of children's safety inside the car] García–Matres y Cortés B, et al. **An Esp Pediatr** 1996 Aug;45(2):125–8 **(Spa)**

[The driver's licence survey over the physician's head? (letter)] Dahlman E. **Lakartidningen** 1996 Nov 6; 93(45):3988 **(Swe)**

EDUCATION

Road safety improvement in large companies. An experimental comparison of different measures. Gregersen NP, et al. **Accid Anal Prev** 1996 May;28(3):297–306

Conflicting goals of skid training. Katila A, et al. **Accid Anal Prev** 1996 Nov;28(6):785–9

Role of formal instruction and informal practice in learning to drive. Hall J, et al. **Ergonomics** 1996 Apr;39(4):693–706

LEGISLATION & JURISPRUDENCE

The impact of mail contact strategy on the effectiveness of driver license withdrawal. Gebers MA, et al. **Accid Anal Prev** 1997 Jan;29(1):65–77

Accident prevention versus recidivism prevention courses for repeat traffic offenders. McKnight AJ, et al. **Accid Anal Prev** 1997 Jan;29(1):25–31

License plate confiscation for persistent alcohol impaired drivers. Ross HL, et al. **Accid Anal Prev** 1996 Jan; 28(1):53–61

Increased police enforcement: effects on speed. Vaa T. **Accid Anal Prev** 1997 May;29(3):373–85

New ways to use biochemical indicators of alcohol abuse to regrant licences in a fairer manner after drunken driving in Germany. Iffland R. **Alcohol Alcohol** 1996 Nov; 31(6):619–20

Evaluation of alcohol consumption level in drivers when regranting licences after driving while intoxicated in France. Mercier–Guyon C. **Alcohol Alcohol** 1996 Nov;

31(6):617–8
The use of serum carbohydrate–deficient transferrin in the assessment of 'high risk offenders' in Great Britain. Morgan MY, et al. **Alcohol Alcohol** 1996 Nov;31(6):625–8
Medical screening and medical–psychological assessment as prerequisites for regranting of licenses: summary of recommendations. Nickel WR. **Alcohol Alcohol** 1996 Nov; 31(6):605–7
Zero tolerance laws: effective public policy? Martin S. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):147A–150A
Putting the brakes on drunk drivers. Bonnono C. **Am J Nurs** 1997 Sep;97(9):80
The driver's role in automobile safety [letter; comment] Fisher L. **Am J Public Health** 1997 May;87(5):871–2. Comment on: Am J Public Health 1996 Jun;86(6):784–6.
Motor vehicle safety. American College of Emergency Physicians. **Ann Emerg Med** 1997 Sep;30(3):363–4
Legislation in Connecticut seeks to prevent adolescent deaths: now and in the future [editorial] Zavoski RW. **Conn Med** 1996 Apr;60(4):231–2
Physician responsibility [editorial] Martz EW. **Del Med J** 1997 Apr;69(4):221–2
"Doctor, when can I drive?": a medical and legal view of the implications of advice on driving after injury or operation. Giddins GE, et al. **Injury** 1996 Sep;27(7):495–7
Can a physician recognize an older driver with increased crash risk potential? Johansson K, et al. **J Am Geriatr Soc** 1996 Oct;44(10):1198–204
And then there were 12 [editorial] Classé JG. **J Am Optom Assoc** 1996 Jul;67(7):373–4
Patient prescribed sertraline charged with driving under the influence [letter] Lock J. **J Clin Psychopharmacol** 1997 Feb; 17(1):61
Drinking environment and sociodemographic factors among DWI offenders. Chang I, et al. **J Stud Alcohol** 1996 Nov; 57(6):659–69
Drunk–driving recidivism: predicting factors from arrest context and case disposition [letter; comment] Marowitz L, et al. **J Stud Alcohol** 1996 Nov;57(6):679–80. Comment on: J Stud Alcohol 1995 Jan;56(1):60–6.
Investigation of vehicle driving ability in two diagnostic groups of epileptic patients with special neuropsychological approach. Barcs G, et al. **Med Law** 1997;16(2):277–87
Epilepsy and driving in South Australia––an assessment of compulsory notification. Black AB, et al. **Med Law** 1997; 16(2):253–67
Epilepsy and driving license regulations in Slovenia. Grošelj J. **Med Law** 1997;16(2):289–94
Medical conditions & driving: legal requirements & approach of neurologists. Mclachlan RS. **Med Law** 1997;16(2):269–75
Sentencing diversion programs for A&D––improving their imperiled future. Solursh LP, et al. **Med Law** 1996; 15(2):325–8
Drink driving legislation. Letter from Drs. Stark and Rogers [letter] Green PG. **Med Leg J** 1996;64 (Pt 1):43
Letter from Doctors Stark and Rogers [letter] [see comments] Ley N. **Med Leg J** 1996;64 (Pt 1):43. Comment in: Med Leg J 1996;64 (Pt 4):198–9.
Reporting patient driving impairments. Weber RD. **Mich Med** 1996 Apr;95(4):8–9
Seizures and spells: physician awareness of Minnesota driving laws. Selmo KK, et al. **Minn Med** 1997 May;80(5):42–6
Graduated licensure: a win–win proposition for teen drivers and parents. Rosenberg ML, et al. **Pediatrics** 1996 Nov; 98(5):959–60
Expectancies for driving under the influence of alcohol among Hispanics and non–Hispanic Whites. Posner SF, et al. **Subst Use Misuse** 1996 Mar;31(4):409–21
Ask TMA. Duties of the physician in restricting epileptics from driving [letter] Lawrence JA. **Tenn Med** 1997 Apr; 90(4):156–7
At risk drivers: are physicians required to report? [letter] Hansotia P. **Wis Med J** 1997 May;96(5):7
[Joy riding and dyssocial behavior. A comparative study based on 84 members of a delinquent group] Knecht T. **Arch Kriminol** 1996 Sep–Oct;198(3–4):110–6 (Eng. Abstr.) **(Ger)**
[The German promille law––overview and guideline for legal traffic applications] Grohmann P. **Blutalkohol** 1996 Jul; 33(4):177–200 (Eng. Abstr.) **(Ger)**
[Separation of therapy and diagnosis on the one hand––need for interprofessional cooperation on the other hand. Also a critical comment to the contribution of Pund and Kajan (letter)] Müller W. **Blutalkohol** 1996 Jul;33(4):215–20 **(Ger)**
[Driving restrictions for arrhythmia patients––with special reference to the implantable cardioverter/defibrillator] Lüderitz B, et al. **Z Kardiol** 1996;85 Suppl 6:115–21 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Reckless driving in adolescence: 'state' and 'trait' factors. Arnett JJ, et al. **Accid Anal Prev** 1997 Jan;29(1):57–63
Attitudes and road accident risk. Assum T. **Accid Anal Prev** 1997 Mar;29(2):153–9
Implications of task–induced fatigue effects for in–vehicle countermeasures to driver fatigue. Desmond PA, et al. **Accid Anal Prev** 1997 Jul;29(4):515–23
Behavioural feedback to risk variation ensues from unsatisfied appetency. Dussault C. **Accid Anal Prev** 1996 Jul; 28(4):477–86 (20 ref.)
Scaling of relative velocity between vehicles. Hoffmann ER, et al. **Accid Anal Prev** 1996 Jul;28(4):415–21
Age, gender and the effectiveness of high–threat letters: an analysis of Oregon's driver improvement advisory letters. Jones B. **Accid Anal Prev** 1997 Mar;29(2):225–34
Time of day variations in driving performance. Lenné MG, et al. **Accid Anal Prev** 1997 Jul;29(4):431–7
Development of fatigue symptoms during simulated driving. Nilsson T, et al. **Accid Anal Prev** 1997 Jul;29(4):479–88
Drinking location and risk of alcohol–impaired driving among high school seniors. Lee JA, et al. **Addict Behav** 1997 May–Jun;22(3):387–93
Predicting underage drinking and driving behaviors. Grube JW, et al. **Addiction** 1996 Dec;91(12):1843–57
A longitudinal study of social, psychological and behavioural factors associated with drunken driving and public drunkenness. Karlsson G, et al. **Addiction** 1997 Apr; 92(4):447–57
Interaction between auditory and visual processing in car audio: simulation experiment using video reproduction. Iwamiya S. **Appl Human Sci** 1997 May;16(3):115–9
Neurophysiological and neuropsychological monitoring of fatigue during extreme environmental and driving conditions. Moglia A, et al. **Electromyogr Clin Neurophysiol** 1997 Mar;37(2):67–72
Effects of moderate heat stress on driver vigilance in a moving vehicle. Wyon DP, et al. **Ergonomics** 1996 Jan; 39(1):61–75
Considering the P450 cytochrome system as determining combined effects of antidepressants and benzodiazepines on actual driving performance of depressed outpatients. Ramaekers JG, et al. **Int Clin Psychopharmacol** 1997 May; 12(3):159–69
Personality and risk–taking: a brief report on adolescent male drivers. Vavrik J. **J Adolesc** 1997 Aug;20(4):461–5
Driving cessation and increased depressive symptoms: prospective evidence from the New Haven EPESE. Established Populations for Epidemiologic Studies of the Elderly [see comments] Marottoli RA, et al. **J Am Geriatr Soc** 1997 Feb;45(2):202–6. Comment in: ACP J Club 1997 Sep–Oct;127(2):44.
Effects of normal aging on the performance of motor–vehicle operational skills. Perryman KM, et al. **J Geriatr Psychiatry Neurol** 1996 Jul;9(3):136–41
Social status and aggression: a field study analyzed by survival analysis. Diekmann A, et al. **J Soc Psychol** 1996 Dec;136(6):761–8
Two varieties of helping in drunk–driving intervention: personal and situational factors. Newcomb MD, et al. **J Stud Alcohol** 1997 Mar;58(2):191–9
Dementia and driving: screening, assessment, and advice [see comments] O'Neill D. **Lancet** 1996 Oct 26;348(9035):1114 . Comment in: Lancet 1996 Dec 7;348(9041):1591–2.
Visual control of steering without course information. Beall AC, et al. **Perception** 1996;25(4):481–94
Attribution of responsibility for alcohol–related offenses. Kelly KT, et al. **Psychol Rep** 1997 Jun;80(3 Pt 2):1159–65
Joy–riding among British youth. Scott D, et al. **Psychol Rep** 1997 Aug;81(1):297–8
[Effect of low alcohol concentrations on visual attention in street traffic] Buser A, et al. **Ophthalmologe** 1996 Aug; 93(4):371–6 (Eng. Abstr.) **(Ger)**
[Behavioral consistency when parents drive their children to preschool] Yoshida S. **Shinrigaku Kenkyu** 1996 Dec; 67(5):382–9 (Eng. Abstr.) **(Jpn)**

STANDARDS

Evaluation of California's commercial driver license program. Hagge RA, et al. **Accid Anal Prev** 1996 Sep; 28(5):547–59
Exceeding the speed limit: an evaluation of the effectiveness of a police intervention. Holland CA, et al. **Accid Anal Prev** 1996 Sep;28(5):587–97
The driver's role in automobile safety [letter; comment] Fisher L. **Am J Public Health** 1997 May;87(5):871–2. Comment on: Am J Public Health 1996 Jun;86(6):784–6.
Assessment of the cardiac patient for fitness to drive: 1996 update. **Can J Cardiol** 1996 Nov;12(11):1164–70, 1175–82 **(Eng, Fre)**
Too many MVAs [editorial] [see comments] McIntyre RV. **J Okla State Med Assoc** 1996 Aug;89(8):263. Comment in: J Okla State Med Assoc 1996 Oct;89(10):379.
[Vision defects in two age groups of drivers who caused road accidents] Toczołowski J, et al. **Klin Oczna** 1996 Mar; 98(3):221–4 (Eng. Abstr.) **(Pol)**

STATISTICS & NUMERICAL DATA

The scope and nature of the drowsy driving problem in New York State. McCartt AT, et al. **Accid Anal Prev** 1996 Jul; 28(4):511–17
Sleepiness and driving: the experience of U.K. car drivers. Maycock G. **Accid Anal Prev** 1997 Jul;29(4):453–62
Quasi–induced exposure: methodology and insight. Stamatiadis N, et al. **Accid Anal Prev** 1997 Jan;29(1):37–52
Let's party tonight: drinking patterns and breath alcohol values at high school parties. Schwartz RH, et al. **Fam Med** 1997 May;29(5):326–31
Drugs and alcohol among suspected impaired drivers in Canton de Vaud (Switzerland). Augsburger M, et al. **Forensic Sci Int** 1997 Feb 28;85(2):95–104
Inattentive and hyperactive behaviors and driving offenses in adolescence. Nada–Raja S, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):515–22
[Driving performance and auto accidents in patients with sleep apnea] Findley LJ. **Wien Med Wochenschr** 1996; 146(13–14):335–6 (16 ref.) (Eng. Abstr.) **(Ger)**
[Drinking and driving] Peleg A, et al. **Harefuah** 1997 Feb 2;132(3):162–7, 240 (Eng. Abstr.) **(Heb)**

AUTOMOBILE EXHAUST see **VEHICLE EMISSIONS**

AUTOMOBILES

see related
AIR BAGS
SEAT BELTS

Child safety seat misuse patterns in four states. Decina LE, et al. **Accid Anal Prev** 1997 Jan;29(1):125–32
A meta–analysis of studies concerning the safety effects of daytime running lights on cars. Elvik R. **Accid Anal Prev** 1996 Nov;28(6):685–94
Anti–lock brake system: an assessment of training on driver effectiveness. Mollenhauer MA, et al. **Accid Anal Prev** 1997 Jan;29(1):97–108
An investigation of behavioural adaptation to airbags and antilock brakes among taxi drivers. Sagberg F, et al. **Accid Anal Prev** 1997 May;29(3):293–302
The effectiveness of side marker lamps: an experimental study. Theeuwes J, et al. **Accid Anal Prev** 1997 Mar; 29(2):235–45
Headrest position during normal driving: implication to neck injury risk in rear crashes. Viano DC, et al. **Accid Anal Prev** 1996 Nov;28(6):665–74
Criteria and procedures in the automotive industry. Kohlhofer I. **Acta Neurochir Suppl (Wien)** 1997;69:19–21
Car transportation conditions of preschool children: use of children's car safety seats. Kostaridou S, et al. **Acta Paediatr** 1997 Feb;86(2):192–5
American Academy of Pediatrics issues recommendations for selection and use of car safety seats. **Am Fam Physician** 1996 Nov 15;54(7):2309–10
Mortality studies of machining fluid exposure in the automobile industry. V: A case–control study of pancreatic cancer. Bardin JA, et al. **Am J Ind Med** 1997 Sep; 32(3):240–7
Metalworking fluid–associated hypersensitivity pneumonitis: a workshop summary. Kreiss K, et al. **Am J Ind Med** 1997 Oct;32(4):423–32
The healthy worker survivor effect and mortality at two automotive engine manufacturing plants. Park RM. **Am J Ind Med** 1996 Dec;30(6):655–63
A survey of mortality at two automotive engine manufacturing plants. Park RM, et al. **Am J Ind Med** 1996 Dec;30(6):664–73
Acute respiratory effects on workers exposed to metalworking fluid aerosols in an automotive transmission plant. Robins T, et al. **Am J Ind Med** 1997 May; 31(5):510–24
Mortality studies of machining fluid exposure in the automobile industry. IV: A case–control study of lung cancer. Schroeder JC, et al. **Am J Ind Med** 1997 May; 31(5):525–33
Respiratory symptoms and lung function abnormalities among machine operators in automobile production. Sprince NL, et al. **Am J Ind Med** 1997 Apr;31(4):403–13
Dermatitis among automobile production machine operators exposed to metal–working fluids. Sprince NL, et al. **Am J Ind Med** 1996 Oct;30(4):421–9
Bronchial reactivity in oil–mist exposed automobile workers revisited [letter] Wild P, et al. **Am J Ind Med** 1997 Oct; 32(4):421–2
Magnetic field exposures in an automobile transmission plant. Wenzl TB, et al. **Arch Environ Health** 1997 May–Jun; 52(3):227–32
Advertisements in the BMJ. BMJ should not carry advertisements for cars [letter] Salmon D. **BMJ** 1996 Oct 5;313(7061):883
Secondary safety of car adaptations for disabled motorists. Turner–Stokes L, et al. **Disabil Rehabil** 1996 Jun; 18(6):317–27 (1 ref.)
A driving force. Holzman D. **Environ Health Perspect** 1997 Jun;105(6):582–7
Automotive HUDs: the overlooked safety issues. Tufano DR. **Hum Factors** 1997 Jun;39(2):303–11
Effect of background scene complexity and field dependence on the legibility of head–up displays for automotive applications. Ward NJ, et al. **Hum Factors** 1995 Dec; 37(4):735–45
Motor vehicle occupant protection: have we become too complacent? Rivara FP. **Inj Prev** 1997 Jun;3(2):78
President Clinton's radio address on child passenger safety. Winston FK. **Inj Prev** 1997 Jun;3(2):85–6
Environmental exposure to gasoline and leukemia in children and young adults––an ecology study. Nordlinder R, et al. **Int Arch Occup Environ Health** 1997;70(1):57–60
Injury severity assessment for car occupants in frontal impacts, using disability scaling. Norin H, et al. **J Clin Epidemiol** 1997 Jan;50(1):95–103
Accidental hypothermia: a potential life–threatening hazard of automobile platform lifts. Woods JA, et al. **J Emerg Med** 1997 Jan–Feb;15(1):45–8
From the Centers for Disease Control and Prevention. Update: fatal air bag–related injuries to children––United States, 1993–1996 [published erratum appears in JAMA

1997 Feb 5;277(5):372] **JAMA** 1997 Jan 1;277(1):11–2
Promoting automobile safety for young children. Gaines SK, et al. **MCN Am J Matern Child Nurs** 1996 May–Jun; 21(3):148–51
Children's exposure to environmental tobacco smoke in private vehicles [letter] Roberts LM, et al. **Med J Aust** 1996 Sep 16;165(6):350
Lead toxicity in a car radiator worker [letter] Tribe PW. **Med J Aust** 1997 Jan 6;166(1):53–4
Catalytic converter and suicide risk revisited. Roberts KM, et al. **Med Sci Law** 1997 Apr;37(2):178
Update: fatal air bag–related injuries to children—United States, 1993–1996 [published erratum appears in MMWR Morb Mortal Wkly Rep 1997 Jan 17;46(2):40] **MMWR Morb Mortal Wkly Rep** 1996 Dec 13; 45(49):1073–6
Work–related musculoskeletal symptoms among car mechanics: a descriptive study. Torp S, et al. **Occup Med (Oxf)** 1996 Dec;46(6):407–13
Environmental change and hedonic cost functions for automobiles. Berry S, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12731–8
Environmental health implications of heavy metal pollution from car tires. Horner JM. **Rev Environ Health** 1996 Oct–Dec;11(4):175–8 (12 ref.)
Health problems of automobile mechanics in Nigeria [see comments] Omokhodion FO, et al. **Trop Doct** 1996 Jul; 26(3):102–4. Comment in: Trop Doct 1996 Jul;26(3):98–9.
Hyperthermia in dogs left in cars. Gregory NG, et al. **Vet Rec** 1996 Oct 5;139(14):349–50
[Assessment of the hygiene level of swine trucks after cleansing and after disinfection using 2 microbiological techniques. Hygiene of swine trucks improved in pilot project] Nijskens JJ. **Tijdschr Diergeneeskd** 1997 Apr 1; 122(7):193–5 (Eng. Abstr.) **(Dut)**
[Automobile head supports—adjustment possibilities and utilization. Results of a field study] Jerosch J, et al. **Unfallchirurg** 1997 Jul;100(7):561–7 (Eng. Abstr.) **(Ger)**
[Particle numbers in classified sizes of roadside dust caused by studded tires in the air at different heights from the pavement surface] Sato T, et al. **Nippon Eiseigaku Zasshi** 1996 Jul;51(2):588–98 (Eng. Abstr.) **(Jpn)**
[Safety equipment and automobile accidents] Lereim I. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2436 **(Nor)**
[Occupational exposure to n–nitrosamine in the production of automobile tires] Rogaczewska T, et al. **Med Pr** 1996; 47(6):569–75 (Eng. Abstr.) **(Pol)**

HISTORY

The century of the automobile: random reflections on technology. Massey RU. **Conn Med** 1996 Jul;60(7):435–6

STANDARDS

The British index for comparing the accident record of car models. Broughton J. **Accid Anal Prev** 1996 Jan;28(1):101–9
The theoretical basis for comparing the accident record of car models. Broughton J. **Accid Anal Prev** 1996 Jan; 28(1):89–99
Building a smarter car: visions of the future at NHTSA. Jolly BT. **Ann Emerg Med** 1997 Jun;29(6):813–4
[Children safety in the automobile and health education (letter)] Marqués F, et al. **Aten Primaria** 1996 Oct 31; 18(7):405 **(Spa)**

STATISTICS & NUMERICAL DATA

Further aspects of the British index of secondary car safety. Broughton J. **Accid Anal Prev** 1996 Nov;28(6):791–8
Impact modelling studies for a three–wheeled scooter taxi. Mohan D, et al. **Accid Anal Prev** 1997 Mar;29(2):161–70
Comment on Williams and Farmer's evaluation of daytime running lights [comment] Theeuwes J, et al. **Accid Anal Prev** 1996 Nov;28(6):799–800. Comment on: Accid Anal Prev 1996 Jul;28(4):541–42.
Safety and the car size effect: a fundamental explanation. Wood DP. **Accid Anal Prev** 1997 Mar;29(2):139–51
An international study of the exposure of children to traffic. Roberts I, et al. **Inj Prev** 1997 Jun;3(2):89–93
Isolation, car ownership, and small area variation in incidence of acute lymphoblastic leukaemia in children. Alexander FE, et al. **Paediatr Perinat Epidemiol** 1996 Oct;10(4):411–7

AUTONOMIC DENERVATION

Effect of denervation of the rat superior mesenteric arterial bed on the distribution of resistance among the first four orders of branching. Scott TM, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1589–95
Change in colonic motility after extrinsic autonomic denervation in dogs. Ishikawa M, et al. **Dig Dis Sci** 1997 Sep;42(9):1950–6
Cardiovascular and catecholamine changes induced by supine exercise and upright posture in vasovagal syncope. Comparisons with normal subjects and subjects with sympathetic denervation. Smith GD, et al. **Eur Heart J** 1996 Dec;17(12):1882–90
Temporary loss of cardiac autonomic innervation after the maze procedure. Vogt PR, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):75–81
Changes in luminal fluid protein composition in the rat cauda epididymidis following partial sympathetic denervation. Ricker DD, et al. **J Androl** 1996 Mar–Apr;17(2):117–26
Denervation and outlet obstruction induce a net synthesis of contractile and cytoskeletal proteins in the urinary bladder of the male rat. Berggren T, et al. **Urol Res** 1996; 24(3):135–40
[Ingelman intervention (transvaginal bladder denervation) with treatment of bladder instability] García Penit FJ, et al. **Arch Esp Urol** 1996 Oct;49(8):843–7 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Effects of the peptide release inhibitor, octreotide, on daytime hypotension and on nocturnal hypertension in primary autonomic failure. Alam M, et al. **J Hypertens** 1995 Dec; 13(12 Pt 2):1664–9

METHODS

[Pancreatic denervation as a method for controlling the pain syndrome in pancreatitis and tumor] Shalimov SA, et al. **Klin Khir** 1996;(9):6–7 **(Rus)**

AUTONOMIC FIBERS, POSTGANGLIONIC

CHEMISTRY

Colocalization of acetylcholinesterase and vasoactive intestinal peptide (VIP) in nicotinamide adenine dinucleotide phosphate diaphorase (NADPH–d) positive neurons in the intralingual ganglia and perivascular nerve fibers around lingual arteries in the porcine, monkey and canine tongue. Yoshida K, et al. **Neurosci Lett** 1997 Feb 7;222(3):147–50

PHYSIOLOGY

Responses of rat postganglionic sympathetic vasoconstrictor neurons following blockade of nitric oxide synthesis in vivo. Häbler HJ, et al. **Neuroscience** 1997 Apr; 77(3):899–909
Transmission by post–ganglionic axons of the autonomic nervous system: the importance of the specialized neuroeffector junction. Hirst GD, et al. **Neuroscience** 1996 Jul;73(1):7–23 (144 ref.)

PHYSIOPATHOLOGY

Postganglionic cholinergic dysautonomia with incomplete recovery: a clinical, neurophysiological and immunological case study. Baron R, et al. **J Neurol** 1996 Jan;243(1):18–24 (46 ref.)

AUTONOMIC FIBERS, PREGANGLIONIC

ANATOMY & HISTOLOGY

Sources of the autonomic fibers to the mammary gland in pig. Boratyński Z, et al. **Folia Morphol (Warsz)** 1996; 55(4):219–21
Distribution of vagal preganglionic neurons in the rat brain innervating thoracic and abdominal organs revealed by retrograde DiI tracing. Yao Y, et al. **Kaibogaku Zasshi** 1996 Dec;71(6):662–73

CHEMISTRY

NOS–positive preganglionic neurons innervate a subpopulation of postganglionic neurons in superior cervical ganglion in rats. Handa Y, et al. **J Chem Neuroanat** 1996 Jun;10(3–4):267–72
Topographic relationship of neurotensin–containing axon terminals with cardiac and noncardiac principal ganglion cells in the stellate ganglia of the cat. Carbó R, et al. **Synapse** 1997 Mar;25(3):277–84

CYTOLOGY

Brainstem origin of preganglionic cardiac motoneurons in the muskrat. Panneton WM, et al. **Brain Res** 1996 Nov 4;738(2):342–6
Spinal interneurons and preganglionic neurons in sacral autonomic reflex pathways. deGroat WC, et al. **Prog Brain Res** 1996;107:97–111 (90 ref.)

ENZYMOLOGY

Reduced acetylcholinesterase (AChE) activity in adrenal medulla and loss of sympathetic preganglionic neurons in TrkA–deficient, but not TrkB–deficient, mice. Schober A, et al. **J Neurosci** 1997 Feb 1;17(3):891–903
Preganglionic parasympathetic salivatory neurons in the brainstem contain markers for nitric oxide synthesis in the rabbit. Zhu BS, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):128–32

METABOLISM

Distribution of immunoreactivity for the NK1 receptor on different subpopulations of sympathetic preganglionic neurons in the rat. Grkovic I, et al. **J Comp Neurol** 1996 Oct 21;374(3):376–86
Calbindin D28K–immunoreactivity identifies distinct subpopulations of sympathetic pre– and postganglionic neurons in the rat. Grkovic I, et al. **J Comp Neurol** 1997 Sep 22;386(2):245–59
Characterization of substance P release from the intermediate area of rat thoracic spinal cord. Yang L, et al. **Synapse** 1996 Aug;23(4):265–73

PHYSIOLOGY

Neonatal pre–ganglionic sympathectomy affects morphometrically defined architecture in rat cerebral arteries. Kåhrström J, et al. **Acta Physiol Scand** 1996 Jun; 157(2):225–31
Periaqueductal gray matter projection to vagal preganglionic neurons and the nucleus tractus solitarius. Farkas E, et al. **Brain Res** 1997 Aug 1;764(1–2):257–61
Voltage–dependent potassium currents of sympathetic preganglionic neurons in neonatal rat spinal cord thin slices. Miyazaki T, et al. **Brain Res** 1996 Dec 16;743(1–2):1–10
Neuropeptide Y innervation of nitric oxide–synthesizing sympathetic preganglionic neurons in humans. Benarroch EE, et al. **Clin Auton Res** 1997 Feb;7(1):31–4
Electrophysiological evidence for multiple glycinergic inputs to neonatal rat sympathetic preganglionic neurons in vitro. Krupp J, et al. **Eur J Neurosci** 1997 Aug;9(8):1711–9
Unitary excitatory synaptic currents in preganglionic neurons mediated by two distinct groups of interneurons in neonatal rat sacral parasympathetic nucleus. Araki I, et al. **J Neurophysiol** 1996 Jul;76(1):215–26
Stimulation within the rostral ventrolateral medulla can evoke monosynaptic GABAergic IPSPs in sympathetic preganglionic neurons in vitro. Deuchars SA, et al. **J Neurophysiol** 1997 Jan;77(1):229–35
Potentiation of NMDA currents by pituitary adenylate cyclase activating polypeptide in neonatal rat sympathetic preganglionic neurons. Wu SY, et al. **J Neurophysiol** 1997 Aug;78(2):1175–9
Electrotonic coupling between rat sympathetic preganglionic neurones in vitro. Logan SD, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):491–502
Potentiation of IPSCs by nitric oxide in immature rat sympathetic preganglionic neurones in vitro. Wu SY, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):479–90
Ultrastructural evidence for a direct pathway from the pontine micturition center to the parasympathetic preganglionic motoneurons of the bladder of the cat. Blok BF, et al. **Neurosci Lett** 1997 Feb 7;222(3):195–8
Hypothalamic neuron projection to autonomic preganglionic levels related with glucose metabolism: a fluorescent labelling study in the rat. Portillo F, et al. **Neurosci Lett** 1996 Jun 7;210(3):197–200
Some principles of the spinal organization of the sympathetic preganglionic outflow. Cabot JB. **Prog Brain Res** 1996; 107:29–42 (81 ref.)

ULTRASTRUCTURE

Arborization pattern of sympathetic preganglionic axons in the rat superior cervical and stellate ganglia. Asamoto K, et al. **Neurosci Res** 1997 Jul;28(3):235–41

AUTONOMIC GANGLIA see **GANGLIA, AUTONOMIC**

AUTONOMIC NERVE BLOCK

Laser Doppler perfusion imager (LDPI)—for the assessment of skin blood flow changes following sympathetic blocks. Sørensen J, et al. **Acta Anaesthesiol Scand** 1996 Oct; 40(9):1145–8
Correlation between the grade of tumoral invasion and pain relief in patients with celiac ganglia block. Akhan O, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1565–7
System identification of closed–loop cardiovascular control: effects of posture and autonomic blockade. Mullen TJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H448–61
Very low frequency oscillations in arterial blood pressure after autonomic blockade in conscious dogs. Wagner CD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R2034–9
Effect of autonomic blockade on power spectrum of heart rate variability during exercise. Warren JH, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R495–502
Sympathetic blockade does not enhance tissue warming during isolated heated limb perfusion. Hynson JM, et al. **Anesth Analg** 1997 Sep;85(3):614–9
Stellate ganglion block improved loss of visual acuity caused by retrobulbar optic neuritis after herpes zoster. Mori T, et al. **Anesth Analg** 1997 Oct;85(4):870–1
Comparison of stellate ganglion block with intravascular infusion of prostaglandin E1 on brachial artery blood flow in dogs. Okuda Y, et al. **Anesth Analg** 1997 Jun; 84(6):1329–32
Max Kappis and the celiac plexus block [letter] Fujita Y, et al. **Anesthesiology** 1997 Feb;86(2):508
Effect of sympathetic nerve block on acute inflammatory pain and hyperalgesia. Pedersen JL, et al. **Anesthesiology** 1997 Feb;86(2):293–301
Lidocaine tape relieves pain due to needle insertion during stellate ganglion block. Inada T, et al. **Can J Anaesth** 1997 Mar;44(3):259–62
Autonomic blockade amplifies cortisol–induced hypertension in man. Tam SH, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):31–3
Effect of combined parasympathetic and sympathetic blockade on left ventricular relaxation at rest and during

exercise in trained and untrained men. Niess A, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S180–3

Effect of ITF 296 on total effective vascular compliance in the anesthetized dog under autonomic blockade. Fink B, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 4:S21–25

Vasomotor rhinitis and sphenopalatine ganglion block. Prasanna A, et al. **J Pain Symptom Manage** 1997 Jun; 13(6):332–8

Sphenopalatine blocks in the treatment of pain in fibromyalgia and myofascial pain syndrome. Janzen VD, et al. **Laryngoscope** 1997 Oct;107(10):1420–2

Referral of patients with pain from pancreatic cancer for neurolytic celiac plexus block. Brown DL, et al. **Mayo Clin Proc** 1997 Sep;72(9):831–4

Sphenopalatine ganglion block relieves symptoms of trigeminal neuralgia: a case report. Manahan AP, et al. **Nebr Med J** 1996 Sep;81(9):306–9

Stellate ganglion block alleviates pseudo-obstruction symptoms followed by episodes of hypermetropia: case report. Devulder J, et al. **Reg Anesth** 1997 May–Jun; 22(3):284–6

Cardiovascular response to sympathetic block by regional anesthesia. Hogan Q. **Reg Anesth** 1996 Nov–Dec;21(6 Suppl):26–34 (83 ref.)

Sensory and sympathetic block during interpleural analgesia. Pettersson N, et al. **Reg Anesth** 1997 Jul–Aug;22(4):313–7

Sympathetic block during spinal anesthesia in volunteers using lidocaine, tetracaine, and bupivacaine. Stevens RA, et al. **Reg Anesth** 1997 Jul–Aug;22(4):325–31

Phantom pain with probable reflex sympathetic dystrophy: efficacy of fentanyl infiltration of the stellate ganglion. Wassef MR. **Reg Anesth** 1997 May–Jun;22(3):287–90

Intravenous regional anesthesia with ketorolac–lidocaine for the management of sympathetically-mediated pain. Connelly NR, et al. **Yale J Biol Med** 1995 May–Aug; 68(3–4):95–9

[Management of severe pain after extended maxillectomy in a patient with carcinoma of the maxillary sinus] Iwade M, et al. **Masui** 1996 Jan;45(1):82–5 (Eng. Abstr.) **(Jpn)**

[Can superior cervical ganglionectomy be an experimental model of stellate ganglion block?] Iwama H. **Masui** 1997 Apr;46(4):565–7 (4 ref.) **(Jpn)**

[A case of reflex sympathetic dystrophy following a retinous surgery] Morimoto Y, et al. **Masui** 1997 Apr;46(4):549–51 (Eng. Abstr.) **(Jpn)**

[Imbalance of blood flow induced by sympathetic block was corrected by prostaglandin E1] Okuda Y, et al. **Masui** 1996 Jan;45(1):27–9 (Eng. Abstr.) **(Jpn)**

[Influence of stellate ganglion block and electrical stimulation of the stellate ganglion on bilateral brachial arterial blood flow—is stellate ganglion block effective either unilaterally or bilaterally?] Okuda Y, et al. **Masui** 1996 Dec; 45(12):1465–8 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Horner's syndrome and brachial paresis as a complication of lumbar sympathetic block: a case report. Maranhão-Filho PA, et al. **Arq Neuropsiquiatr** 1995 Dec; 53(4):831–3

Lidocaine tape relieves pain due to needle insertion during stellate ganglion block. Inada T, et al. **Can J Anaesth** 1997 Mar;44(3):259–62

Rare complication after stellate ganglion block [letter] Saruki N, et al. **Can J Anaesth** 1997 Jul;44(7):784

Successful use of epidural blood patch for postdural puncture headache following lumbar sympathetic block. Lehmann LJ, et al. **Reg Anesth** 1996 Jul–Aug;21(4):347–9

[Paraplegia following coeliac plexus block by anterior approach under direct vision] Kinoshita H, et al. **Masui** 1996 Oct;45(10):1244–6 (8 ref.) (Eng. Abstr.) **(Jpn)**

[A case of severe hypertension caused by stellate ganglion block in a patient with facial palsy] Yokota S, et al. **Masui** 1996 Sep;45(9):1123–6 (Eng. Abstr.) **(Jpn)**

METHODS

Effective obstetric paracervical block with reduced dose of bupivacaine. A prospective randomized double-blind study comparing 25 mg (0.25%) and 12.5 mg (0.125%) of bupivacaine. Nieminen K, et al. **Acta Obstet Gynecol Scand** 1997 Jan;76(1):50–4

Computed tomography scan-guided neurolytic superior hypogastric block complicated by somatic nerve damage in a severely kyphoscoliotic patient [letter] Chan WS, et al. **Anesthesiology** 1997 Jun;86(6):1429–30

Regional nerve blocks [letter; comment] Holberton P. **Aust Fam Physician** 1997 Jan;26(1):76. Comment on: Aust Fam Physician 1996 Sep;25(9):1391–6.

Spermatic-cord block improves analgesia for day-case testicular surgery. Burden RJ, et al. **Br J Urol** 1997 Sep; 80(3):472–5

Endosonography-guided celiac plexus neurolysis. Wiersema MJ, et al. **Gastrointest Endosc** 1996 Dec;44(6):656–62

Does sympathetic blockade prevent the physiologic changes associated with tourniquet use in children? Goodarzi M, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):289–92

The anterior approach to sympathetic ganglion block. Elias M. **Middle East J Anesthesiol** 1997 Jun;14(2):99–105

Dorsal nerve block for intraoperative management of penile erection [letter] Pertek JP, et al. **Reg Anesth** 1996 Sep–Oct; 21(5):491–2

Celiac plexus block. Retrocrural computed tomographic anatomy in patients with and without pancreatic cancer. Weber JG, et al. **Reg Anesth** 1996 Sep–Oct;21(5):407–13

Ultrasound-guided alcoholization of celiac plexus for pain control in oncology. Caratozzolo M, et al. **Surg Endosc** 1997 Mar;11(3):239–44

[Helical CT guided lumar sympathetic ganglion block] Oi Y, et al. **Masui** 1996 Jul;45(7):888–91 (Eng. Abstr.) **(Jpn)**

[Use of endoscopic drug block of the vagus nerve and cryotherapy in the treatment of peptic ulcer] Grushko VA, et al. **Klin Khir** 1996;(8):12–3 **(Rus)**

[Continuous axillary plexus block in pediatrics (letter)] de la Linde CM, et al. **Rev Esp Anestesiol Reanim** 1997 Feb; 44(2):87–8 **(Spa)**

AUTONOMIC NERVES see **AUTONOMIC PATHWAYS**

AUTONOMIC NERVOUS SYSTEM

see related
AUTONOMIC DENERVATION
VISCERAL AFFERENTS

Increased finger arterial blood pressure after exercise detraining in women with parental hypertension: autonomic tasks. Buckworth J, et al. **Acta Physiol Scand** 1997 May; 160(1):29–41

Pelvic autonomic nerve preservation for patients with rectal carcinoma. Oncologic and functional outcome [see comments] Sugihara K, et al. **Cancer** 1996 Nov 1; 78(9):1871–80. Comment in: Cancer 1996 Nov 1;78(9):1847–50.

Temporary loss of cardiac autonomic innervation after the maze procedure. Vogt PR, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):75–81

Gastrointestinal autonomic nerve tumor: further observations regarding an ultrastructural and immunohistochemical analysis of six cases. Ojanguren I, et al. **Hum Pathol** 1996 Dec;27(12):1311–8

Autonomic nervous system and asthma [editorial] Pande JN, et al. **Indian J Chest Dis Allied Sci** 1996 Jul–Sep;38(3):143–5 (20 ref.)

[A study of autonomic innervation of the atrial septum by iso-integral mapping in dogs] Do QB, et al. **Ann Chir** 1996; 50(8):659–66 (Eng. Abstr.) **(Fre)**

[Lymphadenectomy and nerve sparing technique in radical surgery of rectal cancer (editorial)] Di Matteo G, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):593–602 (Eng. Abstr.) **(Ita)**

[The autonomic nerve preserving radical resection for the patients with lower rectal cancer] Mori T, et al. **Nippon Geka Gakkai Zasshi** 1997 Mar;98(3):385–90 (Eng. Abstr.) **(Jpn)**

ANATOMY & HISTOLOGY

Anatomical basis of autonomic nerve-preserving total mesorectal excision for rectal cancer [letter; comment] Liang JT, et al. **Br J Surg** 1997 Apr;84(4):586–7. Comment on: Br J Surg 1996 Mar;83(3):384–8.

[Structure and functions of the cutaneous nervous system] Reznik M. **Pathol Biol (Paris)** 1996 Dec;44(10):831–7 (42 ref.) (Eng. Abstr.) **(Fre)**

CHEMISTRY

Fibroblast growth factor-2 (FGF-2) and FGF-receptor (FGFR-1) immunoreactivity in embryonic spinal autonomic neurons. Stapf C, et al. **Cell Tissue Res** 1997 Mar;287(3):471–80

Implantable defibrillatory shocks [letter; comment] Friedman EH. **Eur Heart J** 1996 Nov;17(11):1757–8. Comment on: Eur Heart J 1995 Sep;16(9):1231–3.

CYTOLOGY

Distribution and structure of vagal afferent intraganglionic laminar endings (IGLEs) in the rat gastrointestinal tract. Berthoud HR, et al. **Anat Embryol (Berl)** 1997 Feb; 195(2):183–91

Anatomy of medullary and peripheral autonomic neurons innervating the neonatal porcine heart. Hopkins DA, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):74–84

DRUG EFFECTS

Effect of carbon dioxide on autonomic cardiovascular responses to systemic hypoxia in conscious rats. Hirakawa H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R747–54

The effects of reversal of neuromuscular blockade on autonomic control in the perioperative period. van Vlymen JM, et al. **Anesth Analg** 1997 Jan;84(1):148–54

Peripheral and spinal actions of opioids in the blockade of the autonomic response evoked by compression of the inflamed knee joint. Nagasaka H, et al. **Anesthesiology** 1996 Oct;85(4):808–16

Effects of caffeine and 3-isobutyl-1-methylxanthine on voltage-activated potassium currents in vertebrate neurones and secretory cells. Reiser MA, et al. **Br J Pharmacol** 1996 Aug;118(8):2145–51

Effects of inhaled albuterol and ipratropium bromide on autonomic control of the cardiovascular system. Dagnone AJ, et al. **Chest** 1997 Jun;111(6):1514–8

The effects of midazolam and ephedrine on post-exercise autonomic chronotropic control of the heart in normal subjects. Lindqvist A, et al. **Clin Auton Res** 1996 Dec; 6(6):343–9

Autonomic blockade amplifies cortisol-induced hypertension in man. Tam SH, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):31–3

Effects of low-dose transdermal scopolamine on autonomic cardiovascular control in healthy young subjects. Vesalainen RK, et al. **Clin Physiol** 1997 Mar;17(2):135–48

Acute effect of insulin on autonomic regulation of the cardiovascular system: a study by heart rate spectral analysis. Bellavere F, et al. **Diabet Med** 1996 Aug; 13(8):709–14

Adverse effects of class I antiarrhythmic drugs. Caron J, et al. **Drug Saf** 1997 Jul;17(1):8–36 (366 ref.)

The mechanisms of the ocular autonomic dysfunction during the intracarotid amytal suppression test. DeToledo JC, et al. **Epilepsy Res** 1997 Jan;26(2):309–13

Effects of nifedipine and enalapril on cardiac autonomic nervous function during the tilt test in elderly patients with hypertension. Okabayashi J, et al. **Hypertens Res** 1997 Mar; 20(1):1–6

Autonomic neuropathy in hemodialysis patients treated with recombinant human erythropoietin. Stojcheva-Taneva OO, et al. **Int J Artif Organs** 1996 Oct;19(10):574–7

Heart rate variability after acute myocardial infarction in patients treated with atenolol and metoprolol. Lurje L, et al. **Int J Cardiol** 1997 Jul 25;60(2):157–64

Glucose administration before exercise modulates catecholaminergic responses in glycogen-depleted subjects. Gozal D, et al. **J Appl Physiol** 1997 Jan;82(1):248–56

Effect of byakko-ka-ninjin-to on the efferent activity of the autonomic nerve fibers innervating the sublingual gland of the rat. Niijima A, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1–2):46–50

Characterization of the apamin- and L-nitroarginine-resistant NANC inhibitory transmission to the circular muscle of guinea-pig colon. Maggi CA, et al. **J Auton Pharmacol** 1996 Jun;16(3):131–45

Sinus node recovery time assessment revisited: role of pharmacologic blockade of the autonomic nervous system. Bergfeldt L, et al. **J Cardiovasc Electrophysiol** 1996 Feb; 7(2):95–101

Frequency-dependent electrophysiologic effects of d,l-sotalol and quinidine and modulation by beta-adrenergic stimulation. Sager PT, et al. **J Cardiovasc Electrophysiol** 1996 Feb;7(2):102–12

Hemodynamic and autonomic effects of intravenous saterinone in patients with chronic heart failure. Szabó BM, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):618–23

Atrial natriuretic factor and digoxin-like immunoreactive factor in diabetic patients: their interrelation and the influence of the autonomic nervous system [letter; comment] Paci A, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2375–6. Comment on: J Clin Endocrinol Metab 1996 Sep;81(9):3385–9.

Heart rate variability: a new physiologic marker of autonomic neurotoxicity [editorial; comment] Landrigan PJ, et al. **J Pediatr** 1997 May;130(5):691–3. Comment on: J Pediatr 1997 May;130(5):725–9.

Promethazine affects autonomic cardiovascular mechanisms minimally. Brown TE, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):839–44

Comparison of the effects of high ambient temperature and clonidine on autonomic functions in man. Arya DK, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):376–83

Functional observational battery comparing effects of ethanol, 1,1,1-trichloroethane, ether, and flurothyl. Bowen SE, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):577–85

Effects of autonomic manipulation on ventricular fibrillation and internal cardiac defibrillation thresholds in pigs. Morillo CA, et al. **Pacing Clin Electrophysiol** 1996 Sep; 19(9):1355–62

The NMDA receptor antagonist MK-801 reduces Fos-like immunoreactivity in central trigeminal neurons and blocks select endocrine and autonomic responses to corneal stimulation in the rat. Bereiter DA, et al. **Pain** 1996 Jan; 64(1):179–89

Cardiovascular autonomic regulation in asthmatic children evidenced by spectral analysis of heart rate and blood pressure variability. Jartti TT, et al. **Scand J Clin Lab Invest** 1996 Oct;56(6):545–54

Effects of the venom of the theridiid spider, Steatoda capensis Hann, on autonomic transmission in rat isolated atria and caudal artery. Korszniak NV, et al. **Toxicon** 1994 Jan; 32(1):85–96

[Effect of barnidipine hydrochloride on the autonomic nervous system: difference between short- and long-acting components of calcium antagonist] Soejima K, et al. **J Cardiol** 1997 Jul;30(1):13–8 (Eng. Abstr.) **(Jpn)**

[Recent development in drugs working on ocular autonomic nervous system (editorial)] Yoshimura N. **Nippon Ganka Gakkai Zasshi** 1997 Mar;101(3):199–200 **(Jpn)**

[The effect of recombinant human erythropoietin (rHu-EPO) on the autonomic nervous system in patients hemodialyzed for chronic kidney failure] Pacyk G, et al. **Pol Arch Med Wewn** 1997 Jan;97(1):22–9 (Eng. Abstr.) **(Pol)**

[The interrelation of autonomic homeostasis and the broncho-obstructive syndrome in patients with chronic bronchitis and the effect of broncholytic therapy with

sal'tos] Sokolov AV, et al. **Ter Arkh** 1996;68(11):70–2 **(Rus)**

EMBRYOLOGY

Power spectral analysis for autonomic influences in heart rate and blood pressure variability in fetal lambs. Kimura Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1333–9

GROWTH & DEVELOPMENT

Autoregressive analysis of cardiac RR intervals in preterm and full–term infants. Nyu A, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):37–43

Preliminary evidence for the evolution in complexity of heart rate dynamics during autonomic maturation in neonatal swine. Lipsitz LA, et al. **J Auton Nerv Syst** 1997 Jul 14; 65(1):1–9

Postnatal ontogeny of glutamate receptors in the rat nucleus tractus solitarii and ventrolateral medulla. Rao H, et al. **J Auton Nerv Syst** 1997 Jul 14;65(1):25–32

Autonomic nervous system as a model of neuronal aging: the role of target tissues and neurotrophic factors. Andrews TJ. **Microsc Res Tech** 1996 Sep 1;35(1):2–19

IMMUNOLOGY

Reproducibility and persistence of neural and adrenal autoantibodies in diabetic autonomic neuropathy. Cachia MJ, et al. **Diabet Med** 1997 Jun;14(6):461–5

The autonomic nervous system as a communication channel between the brain and the immune system. Hori T, et al. **Neuroimmunomodulation** 1995 Jul–Aug;2(4):203–15 (101 ref.)

INJURIES

Heart rate variability and inappropriate sinus tachycardia after high frequency ablation: sign of the injured autonomic nervous system? [comment] Weber H, et al. **Eur Heart J** 1995 Nov;16(11):1459–61. Comment on: Eur Heart J 1995 Nov;16(11):1637–40.

METABOLISM

Review: Ca2+ channel sub–types in peripheral efferent autonomic nerves. Lundy PM, et al. **J Auton Pharmacol** 1996 Oct;16(5):229–41 (146 ref.)

Enhanced immunohistochemical detection of autonomic nerve fibers, cytokines and inducible nitric oxide synthase by light and fluorescent microscopy in rat spleen. Meltzer JC, et al. **J Histochem Cytochem** 1997 Apr;45(4):599–610

The expression pattern of the transcription factor Phox2 delineates synaptic pathways of the autonomic nervous system. Tiveron MC, et al. **J Neurosci** 1996 Dec 1; 16(23):7649–60

Localization of estrogen receptor protein and estrogen receptor messenger RNA in peripheral autonomic and sensory neurons. Papka RE, et al. **Neuroscience** 1997 Aug; 79(4):1153–63

PATHOLOGY

Anatomy of the nerve supply of the rectum, bladder, and internal genitalia in anorectal dysgenesis in the male. Davies MR. **J Pediatr Surg** 1997 Apr;32(4):536–41

Trypanosoma cruzi strains and autonomic nervous system pathology in experimental Chagas disease. de Souza MM, et al. **Mem Inst Oswaldo Cruz** 1996 Mar–Apr;91(2):217–24

Utility of skin biopsy in diabetic neuropathy. Kennedy WR, et al. **Semin Neurol** 1996 Jun;16(2):163–71 (40 ref.)

Immunohistochemical demonstration of sensory and autonomic nerve terminals in herniated lumbar disc tissue. Palmgren T, et al. **Spine** 1996 Jun 1;21(11):1301–6

PHYSIOLOGY

Mechanisms mediating insulin–induced hypotension in rats. A role for nitric oxide and autonomic mediators. Dunbar JC, et al. **Acta Diabetol** 1996 Dec;33(4):263–8

Changes in autonomic function with age: a study of pupillary kinetics in healthy young and old people. Bitsios P, et al. **Age Ageing** 1996 Nov;25(6):432–8

Prenatal and postnatal ethanol exposure influences preweanling rats' behavioral and autonomic responding to ethanol odor. Chotro MG, et al. **Alcohol** 1996 Jul–Aug; 13(4):377–85

Autonomic reflexes and non–allergic rhinitis. Jones AS. **Allergy** 1997;52(36 Suppl):14–9 (53 ref.)

Gender–specific differences in the QT interval and the effect of autonomic tone and menstrual cycle in healthy adults. Burke JH, et al. **Am J Cardiol** 1997 Jan 15;79(2):178–81

Assessment of autonomic neurotoxicity in occupational and environmental health as determined by ECG R–R interval variability: a review. Murata K, et al. **Am J Ind Med** 1996 Aug;30(2):155–63 (82 ref.)

Impaired phagocytosis of Staphylococcus aureus in complete tetraplegics. Campagnolo DI, et al. **Am J Phys Med Rehabil** 1997 Jul–Aug;76(4):276–80

Neurocardiac response to esophageal electric stimulation in humans: effects of varying stimulation frequencies. Bajwa A, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R896–901

Central trigeminal effects of somatostatin and etorphine on adrenal and autonomic function in the cat. Bereiter DA, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R636–44

Role of the autonomic nervous system in the thermogenic response to food in lean individuals. De Jonge L, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E775–80

NO modulates autonomic effects on sinus discharge rate and AV nodal conduction in open–chest dogs. Elvan A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H263–71

Effects of Stroop color–word conflict test on the autonomic nervous system responses. Hoshikawa Y, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1113–21

Autonomic interactions for control of atrial rate are maintained after SA nodal parasympathectomy. McGuirt AS, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2525–33

Nervous control of the spleen in the red–blooded Antarctic fish, Pagothenia borchgrevinki. Nilsson S, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R599–604

Glucose ingestion affects cardiac ANS in healthy subjects with different amounts of body fat. Paolisso G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E471–8

Ultradian rhythms of autonomic, cardiovascular, and neuroendocrine systems are related in humans. Shannahoff–Khalsa DS, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R873–87

Low–frequency ultradian insulin rhythms are coupled to cardiovascular, autonomic, and neuroendocrine rhythms. Shannahoff–Khalsa DS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R962–8

Valsalva's maneuver revisited: a quantitative method yielding insights into human autonomic control. Smith ML, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1240–9

Age and autonomic effects on interrelationships between lung volume and heart rate. Stanley G, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1833–40

Frequency–response characteristics of autonomic nervous system function in conscious rats. Stauss HM, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H786–95

Psychophysiological protective factors for male subjects at high risk for criminal behavior. Brennan PA, et al. **Am J Psychiatry** 1997 Jun;154(6):853–5

Relationship of aggression and anxiety to autonomic regulation of heart rate variability in adolescent males. Mezzacappa E, et al. **Ann N Y Acad Sci** 1996 Sep 20; 794:376–9

Ethopharmacology of aggression: impact on autonomic and mesocorticolimbic activity. Miczek KA, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:60–77 (108 ref.)

Emotion: an evolutionary by–product of the neural regulation of the autonomic nervous system. Porges SW. **Ann N Y Acad Sci** 1997 Jan 15;807:62–77 (35 ref.)

Effect of Lambert–Eaton myasthenic syndrome antibodies on autonomic neurons in the mouse. Waterman SA, et al. **Ann Neurol** 1997 Aug;42(2):147–56

Food intake, fuel homeostasis, and the autonomic nervous system. Scheurink AJ, et al. **Appetite** 1996 Jun;26(3):304

Autonomic and behavioral correlates of appetitive conditioning in rats. Hunt PS, et al. **Behav Neurosci** 1997 Jun;111(3):494–502

Autonomic denervations affect rates of protein synthesis through changes in the intracellular proline imino–pool and mRNA in the fasting rat submandibular gland. Shori DK, et al. **Biochem Soc Trans** 1997 Feb;25(1):29S

Involvement of ATP in the non–adrenergic non–cholinergic inhibitory neurotransmission of lamb isolated coronary small arteries. Simonsen U, et al. **Br J Pharmacol** 1997 Feb; 120(3):411–20

Trigeminal autonomic pathways involved in nociception–induced reflex cardiovascular responses. Allen GV, et al. **Brain Res** 1997 Apr 18;754(1–2):269–78

Vestibular afferents to the dorsal vagal complex: substrate for vestibular–autonomic interactions in the rat. Ruggiero DA, et al. **Brain Res** 1996 Dec 16;743(1–2):294–302

Is the short–term modulation of heart rate in teleost fish physiologically significant? Assessment by spectral analysis techniques. Altimiras J, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1197–206

Control of heart rate during exercise in health and disease. Gallo L Jr, et al. **Braz J Med Biol Res** 1995 Nov–Dec; 28(11–12):1179–84 (29 ref.)

Aging and cardiovascular autonomic regulation [letter; comment] Török T, et al. **Can J Anaesth** 1997 Jun; 44(6):677–8. Comment on: Can J Anaesth 1996 Sep;43(9):972–4.

Acute and persistent effects of a 46–kilometer wilderness trail run at altitude: cardiovascular autonomic modulation and baroreflexes. Bernardi L, et al. **Cardiovasc Res** 1997 May; 34(2):273–80

Physical activity influences heart rate variability and very–low–frequency components in Holter electrocardiograms. Bernardi L, et al. **Cardiovasc Res** 1996 Aug;32(2):234–7

Effects of vasoactive intestinal polypeptide on heart rate in relation to vagal cardioacceleration in conscious dogs. Roossien A, et al. **Cardiovasc Res** 1997 Feb;33(2):392–9

Odor hedonics: connection with emotional response estimated by autonomic parameters. Alaoui–Ismaïli O, et al. **Chem Senses** 1997 Jun;22(3):237–48

The physiological conundrum of hyperadrenergic orthostatic intolerance. Jordan J, et al. **Chin J Physiol** 1997;40(1):1–8 (76 ref.)

Circadian rhythms of cardiovascular functions are modulated by the baroreflex and the autonomic nervous system in the rat. Makino M, et al. **Circulation** 1997 Sep 2; 96(5):1667–74

First Annual Conference of Indian Autonomic Society 1–2 October 1994, Cuttack, Orissa, India. **Clin Auton Res** 1996 Feb;6(1):49–50

Determinants of heart rate variability during deep breathing: basic findings and clinical applications. Diehl RR, et al. **Clin Auton Res** 1997 Jun;7(3):131–5

Skin blood flow and autonomic reactivity in human poikilothermia. MacKenzie MA, et al. **Clin Auton Res** 1996 Apr;6(2):91–7

Cardiovascular adjustments and pain during repeated cold pressor test. Stancák A Jr, et al. **Clin Auton Res** 1996 Apr; 6(2):83–9

Chronotropic incompetence—Part II: Clinical implications. Camm AJ, et al. **Clin Cardiol** 1996 Jun;19(6):503–8 (56 ref.)

Clinical relevance of heart rate variability. Kautzner J, et al. **Clin Cardiol** 1997 Feb;20(2):162–8 (76 ref.)

Actions of angiotensin in the subfornical organ and area postrema: implications for long term control of autonomic output. Ferguson AV, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):96–101 (46 ref.)

Ventricular repolarization is correlated with metabolic control in newly diagnosed type 2 diabetes. Vanninen E, et al. **Clin Physiol** 1996 Jul;16(4):449–61

Isometric contraction of arm flexor muscles as a method of evaluating cardiac vagal tone in man. al–Ani M, et al. **Clin Sci (Colch)** 1997 Feb;92(2):175–80

Modulation of neurocardiac function by oesophageal stimulation in humans. Tougas G, et al. **Clin Sci (Colch)** 1997 Feb;92(2):167–74

Autonomic function during hemodialysis–induced collapses with different heart rate pattern. Enzmann G, et al. **Contrib Nephrol** 1996;119:202–7

Old and new approaches for evaluating autonomic control of circulation in man. Grassi G, et al. **Contrib Nephrol** 1996; 119:165–72 (26 ref.)

Neurohumoral response to volume depletion and central hypovolemia in dialysis patients. Mallamaci F, et al. **Contrib Nephrol** 1996;119:189–96 (14 ref.)

Regulation of the cardiovascular system by non–adrenergic non–cholinergic nerves. Ahluwalia A, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):74–9 (81 ref.)

Cognitive influences on human autonomic nervous system function. Hugdahl K. **Curr Opin Neurobiol** 1996 Apr; 6(2):252–8 (57 ref.)

Activation of autonomic nerves and the adrenal medulla contributes to increased glucagon secretion during moderate insulin–induced hypoglycemia in women. Havel PJ, et al. **Diabetes** 1997 May;46(5):801–7

Hyperglycemia affects cardiovascular autonomic nerve function in normal subjects. Yeap BB, et al. **Diabetes Care** 1996 Aug;19(8):880–2

Cephalic phase of pancreatic polypeptide release: a valid test of autonomic neuropathy in diabetics? Glasbrenner B, et al. **Diabetes Res Clin Pract** 1995 Nov;30(2):117–23

The deep breath vasoconstriction reflex—a new tool for autonomic assessment in infancy? Inwald D, et al. **Early Hum Dev** 1996 Jul 5;45(1–2):55–61

Increased pancreatic islet blood flow in 48–hour glucose–infused rats: involvement of central and autonomic nervous systems. Atef N, et al. **Endocrinology** 1997 May; 138(5):1836–40

The relationship of autonomic function to age–related changes in left ventricular filling in normal subjects. Finkelhor RS, et al. **Eur Heart J** 1995 Nov;16(11):1716–20

Changes in the QT interval and its adaptation to rate, assessed with continuous electrocardiographic recordings in patients with ventricular fibrillation, as compared to normal individuals without arrhythmias [see comments] Tavernier R, et al. **Eur Heart J** 1997 Jun;18(6):994–9. Comment in: Eur Heart J 1997 Jun;18(6):893–5.

Intravenous instrumentation alters the autonomic state in humans. Bootsma M, et al. **Eur J Appl Physiol** 1996; 73(1–2):113–6

Effects of single and repeated cognitive tasks on autonomic balance as observed by an analysis of R–R intervals. Takahashi M, et al. **Eur J Appl Physiol** 1996;72(4):316–22

Cloning of sheep: a possible technique for reprogramming ageing mechanisms. Gilbert C. **Eur J Cancer Prev** 1997 Jun;6(3):303–4

Localization, differential expression and retrograde axonal transport suggest physiological role of FGF–2 in spinal autonomic neurons of the rat. Blottner D, et al. **Eur J Neurosci** 1997 Feb;9(2):368–77

Potential role of the autonomic nervous system in the immunosuppressive effects of acute morphine administration. Flores LR, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):437–46

The medullary raphe nuclei: a system for integration and gain control in autonomic and somatomotor responsiveness? Lovick TA. **Exp Physiol** 1997 Jan; 82(1):31–41 (32 ref.)

Characteristics of the autonomic response in the visually evoked reflex in humans. Kolev OI, et al. **Funct Neurol** 1997 Mar–Apr;12(2):83–7

NANC neural control of airway smooth muscle tone. Lindén A. **Gen Pharmacol** 1996 Oct;27(7):1109–21 (140 ref.)

Role of nitric oxide in nonadrenergic, noncholinergic relaxation of whole tracheal tube preparations isolated from guinea pigs. Tanihata S, et al. **Gen Pharmacol** 1996 Jul; 27(5):827–32

Intracerebral sex differences in the vasotocin system in birds: possible implication in behavioral and autonomic functions. Jurkevich A, et al. **Horm Behav** 1996 Dec;30(4):673–81

Nonlinear analysis of heart rate and respiratory dynamics. Hoyer D, et al. **IEEE Eng Med Biol Mag** 1997 Jan–Feb; 16(1):31–9

A dual–input nonlinear system analysis of autonomic modulation of heart rate. Chon KH, et al. **IEEE Trans Biomed Eng** 1996 May;43(5):530–44

Functional coupling between the central–autonomic and the cognitive systems is enhanced in states after optic neuritis and early multiple sclerosis. Ganz RE, et al. **Int J Neurosci** 1996 Jul;86(1–2):87–93

Autonomic nervous control of heart rate orienting and alpha responses in dog. Li S, et al. **Integr Physiol Behav Sci** 1997 Apr–Jun;32(2):113–22

Hiding feelings: the acute effects of inhibiting negative and positive emotion. Gross JJ, et al. **J Abnorm Psychol** 1997 Feb;106(1):95–103

Assessment of heart rate variability changes during dipyridamole infusion and dipyridamole–induced myocardial ischemia: a time variant spectral approach. Petrucci E, et al. **J Am Coll Cardiol** 1996 Oct;28(4):924–34

Autonomic and behavioral thermoregulation in guinea pigs during postnatal maturation. Fewell JE, et al. **J Appl Physiol** 1997 Sep;83(3):830–6

Effects of acute exposure to simulated altitude on heart rate variability during exercise. Yamamoto Y, et al. **J Appl Physiol** 1996 Sep;81(3):1223–9

Symposium on Autonomic Regulation. Nagoya, Japan, April 1995. Abstracts. **J Auton Nerv Syst** 1996 May 6; 58(3):181–231

The autonomic nervous system and hypoxia: mountain medicine. Appenzeller O, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):1–12 (70 ref.)

Effect of local autonomic denervation on in vitro responsiveness of lymphocytes from rat submaxillary lymph nodes. Arce A, et al. **J Auton Nerv Syst** 1997 Feb 17; 62(3):155–62

Retest variation of cardiovascular parameters in autonomic testing. Braune S, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):103–7

The effect of pelvic nerve stimulation on recto–anal motility in the cat. Buntzen S, et al. **J Auton Nerv Syst** 1996 Dec 14;61(3):243–7

Autonomic nervous system response patterns specificity to basic emotions. Collet C, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):45–57

Participation of the autonomic nervous system in lipolysis induced by intraventricular injection of carbachol in the pigeon. de Mello DM, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):83–6

Gene targeting approaches to the autonomic nervous system. Fritz JD, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):1–5 (63 ref.)

Cardiovascular autonomic nervous system tests: determination of normative values and effect of confounding variables. Gelber DA, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):40–4

Autonomic and sensory innervation of cat molar gland and blood vessels in the lower lip, gingiva and cheek. Kuchiiwa S, et al. **J Auton Nerv Syst** 1996 Dec 14;61(3):227–34

Assessment of autonomic nervous function by power spectral analysis of heart rate variability in the horse. Kuwahara M, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1–2):43–8

The autonomic nervous system: a Sherringtonian revision of its integrated properties in the control of circulation. Malliani A. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):158–61 (26 ref.)

Changes in cardiocirculatory autonomic function after thoracoscopic upper dorsal sympathicolysis for essential hyperhidrosis. Noppen M, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):115–20

Temperature dependency of the vagal chronotropic response in the young puppy: an 'environmental–autonomic interaction'. Pickoff AS, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):107–14

Postnatal ontogeny of glutamate receptors in the rat nucleus tractus solitarii and ventrolateral medulla. Rao H, et al. **J Auton Nerv Syst** 1997 Jul 14;65(1):25–32

The development of autonomic innervation in bone and joints of the rat. Sisask G, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):27–33

A new method of assessing cardiac autonomic function and its comparison with spectral analysis and coefficient of variation of R–R interval. Toichi M, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):79–84

Effects of cardiac autonomic imbalance on postnatal changes in the electrocardiographic Q–T interval in conscious swine. Tong S, et al. **J Auton Nerv Syst** 1997 Jun 6; 64(2–3):162–5

Purinergic modulation of neural control of cardiac function. Pelleg A, et al. **J Auton Pharmacol** 1996 Dec;16(6):401–5 (56 ref.)

Clinical and autonomic effects of ibopamine as adjunct to angiotensin–converting enzyme inhibitors in chronic heart failure [see comments] Szabó BM, et al. **J Card Fail** 1996 Sep;2(3):185–92. Comment in: J Card Fail 1996 Sep;2(3):193–6. Comment in: J Card Fail 1996 Sep;2(3):197–202.

Syncope and the autonomic nervous system. Lurie KG, et al. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):760–76 (123 ref.)

Prevention of an increase in plasma cortisol during hypoglycemia preserves subsequent counterregulatory responses. Davis SN, et al. **J Clin Invest** 1997 Jul 15; 100(2):429–38

GABAergic and other noncholinergic basal forebrain neurons, together with cholinergic neurons, project to the mesocortex and isocortex in the rat. Gritti I, et al. **J Comp Neurol** 1997 Jun 30;383(2):163–77

Misinterpretation of body sensations in panic disorder. Clark DM, et al. **J Consult Clin Psychol** 1997 Apr;65(2):203–13

Effects of self–induced mental imagery on autonomic reactivity in children. Lee LH, et al. **J Dev Behav Pediatr** 1996 Oct;17(5):323–7

Estimation of the cut–off value in cardiovascular autonomic nervous function tests: not–age–related criteria or the age–related 5th percentile. Straub RH, et al. **J Diabetes Complications** 1997 May–Jun;11(3):145–50

Autonomic control of ultradian and circadian rhythms of blood pressure, heart rate, and baroreflex sensitivity in spontaneously hypertensive rats. Oosting J, et al. **J Hypertens** 1997 Apr;15(4):401–10

Somatovisceral reflexes. Sato A. **J Manipulative Physiol Ther** 1995 Nov–Dec;18(9):597–602

Autonomic function in narcolepsy: power spectrum analysis of heart rate variability. Ferini–Strambi L, et al. **J Neurol** 1997 Apr;244(4):252–5

Ventromedial preoptic prostaglandin E2 activates fever–producing autonomic pathways. Scammell TE, et al. **J Neurosci** 1996 Oct 1;16(19):6246–54

Analysis of heart rate variability demonstrates effects of development on vagal modulation of heart rate in healthy children [see comments] Goto M, et al. **J Pediatr** 1997 May; 130(5):725–9. Comment in: J Pediatr 1997 May;130(5):691–3.

Effects of adenosine on NANC bronchoconstriction in anaesthetized guinea–pigs. Nieri P, et al. **J Pharm Pharmacol** 1996 Apr;48(4):422–8

Effect of inferior vena cava occlusion on left ventricular end–systolic pressure–volume relations in intact canine hearts—modulation by the autonomic nervous system. Miyahara K, et al. **Jpn Circ J** 1996 Sep;60(9):652–61

Cardiorespiratory changes when balancing one's whole body on one leg with eyes closed. Kita I, et al. **Jpn J Physiol** 1996 Apr;46(2):145–53

Autonomic nervous function in mice and voles (Microtus arvalis): investigation by power spectral analysis of heart rate variability. Ishii K, et al. **Lab Anim** 1996 Oct; 30(4):359–64

Estimation of habituation and signal–to–noise ratio of cortical evoked potentials to oesophageal electrical and mechanical stimulation. Kamath MV, et al. **Med Biol Eng Comput** 1997 Jul;35(4):343–7

Role of pulse wave velocity for assessing autonomic nervous system activities in reference to heart rate variability. Okada M, et al. **Med Inf (Lond)** 1996 Jan–Mar;21(1):81–90

Autonomic nervous system as a model of neuronal aging: the role of target tissues and neurotrophic factors. Andrews TJ. **Microsc Res Tech** 1996 Sep 1;35(1):2–19

Respiratory–dependent laser–Doppler flux motion in different skin areas and its meaning to autonomic nervous control of the vessels of the skin. Mück–Weymann ME, et al. **Microvasc Res** 1996 Jul;52(1):69–78

AAEM minimonograph #48: autonomic nervous system testing. Ravits JM. **Muscle Nerve** 1997 Aug;20(8):919–37 (103 ref.)

Automatic SCSB analysis of motor and autonomic nervous functions compared with sleep stages. Kaartinen J, et al. **Neuroreport** 1996 Apr 10;7(5):1102–6

Transmission by post–ganglionic axons of the autonomic nervous system: the importance of the specialized neuroeffector junction. Hirst GD, et al. **Neuroscience** 1996 Jul;73(1):7–23 (144 ref.)

Tachykinin NK1 and NK2 receptors mediate non–adrenergic non–cholinergic excitatory neuromuscular transmission in the guinea–pig stomach. Zagorodnyuk V, et al. **Neuroscience** 1997 Sep;80(2):625–34

Innervation of the liver and glucoregulation: roles of the hypothalamus and autonomic nerves. Shimazu T. **Nutrition** 1996 Jan;12(1):65–6

Autonomic effects on noise recorded during signal–averaged electrocardiography. Ahmed MW, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1796–9

Heart rate variability in isolated rabbit hearts. Frey B, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1882–5

Effect of aspiration of milk on mechanisms of neural control in the airways of developing rabbits. Gelfand AS, et al. **Pediatr Pulmonol** 1997 Mar;23(3):198–204

Behavioral and autonomic thermoregulation in the rat following propylthiouracil–induced hypothyroidism. Gordon CJ. **Pharmacol Biochem Behav** 1997 Sep; 58(1):231–6

Tachykinins in the autonomic nervous system. Maggi CA. **Pharmacol Res** 1996 Mar;33(3):161–70 (152 ref.)

Autonomic control of the pulmonary surfactant system and lung compliance in the lizard. Wood PG, et al. **Physiol Zool** 1997 Jul–Aug;70(4):444–55

Involvement of the spino–parabrachio –amygdaloid and –hypothalamic pathways in the autonomic and affective emotional aspects of pain. Bernard JF, et al. **Prog Brain Res** 1996;107:243–55 (80 ref.)

The neurobiology of the central nucleus of the amygdala in relation to neuroendocrine and autonomic outflow. Bohus B, et al. **Prog Brain Res** 1996;107:447–60 (91 ref.)

Modulations of autonomic functions by somatic nociceptive inputs. Budgell B, et al. **Prog Brain Res** 1996;113:525–39 (57 ref.)

SCN output drives the autonomic nervous system: with special reference to the autonomic function related to the regulation of glucose metabolism. Nagai K, et al. **Prog Brain Res** 1996;111:253–72 (91 ref.)

Autonomic neuromuscular transmission at a varicosity. Bennett MR. **Prog Neurobiol** 1996 Dec;50(5–6):505–32 (123 ref.)

Non–adrenergic non–cholinergic (NANC) transmission to smooth muscle: 35 years on. Bennett MR. **Prog Neurobiol** 1997 Jun;52(3):159–95 (261 ref.)

Nitric oxide and fibroblast growth factor in autonomic nervous system: short– and long–term messengers in autonomic pathway and target–organ control. Blottner D. **Prog Neurobiol** 1997 Mar;51(4):423–38 (225 ref.)

Physiological role of brain endothelin in the central autonomic control: from neuron to knockout mouse. Kuwaki T, et al. **Prog Neurobiol** 1997 Apr;51(5):545–79 (365 ref.)

Autonomic response patterns during voluntary facial action. Boiten F. **Psychophysiology** 1996 Mar;33(2):123–31

Fear and the startle reflex: blink modulation and autonomic response patterns in animal and mutilation fearful subjects. Hamm AO, et al. **Psychophysiology** 1997 Jan;34(1):97–107

Autonomic, electroencephalographic, and myogenic activity accompanying startle and its habituation during mid–childhood. Ornitz EM, et al. **Psychophysiology** 1996 Sep;33(5):507–13

Autonomic interactions and chronotropic control of the heart: heart period versus heart rate. Quigley KS, et al. **Psychophysiology** 1996 Sep;33(5):605–11

Reproducibility of blood pressure and heart rate reactivity: a meta–analysis. Swain A, et al. **Psychophysiology** 1996 Mar;33(2):162–74

Autonomic patterns during respiratory suspensions: possible markers of Transcendental Consciousness. Travis F, et al. **Psychophysiology** 1997 Jan;34(1):39–46

Oxygen radicals in the nonvagal component of noncholinergic airway constriction. Zhang HQ, et al. **Respir Physiol** 1996 Jul;104(2–3):213–20

The impact of somatosensory input on autonomic functions. Sato A, et al. **Rev Physiol Biochem Pharmacol** 1997; 130:1–328 (809 ref.)

Cardiovascular autonomic regulation in asthmatic children evidenced by spectral analysis of heart rate and blood pressure variability. Jartti TT, et al. **Scand J Clin Lab Invest** 1996 Oct;56(6):545–54

Cardiac autonomic activity during wakefulness and sleep in REM sleep behavior disorder. Ferini–Strambi L, et al. **Sleep** 1996 Jun;19(5):367–9

Heart rate variations during sleep in preadolescents. Pivik RT, et al. **Sleep** 1996 Feb;19(2):117–35

Ultrastructural evidence of adrenergic, as well as cholinergic, nerve varicosities in relation to the lamina propria of the human seminiferous tubules during childhood. Prince FP. **Tissue Cell** 1996 Oct;28(5):507–13

Inadequate frameworks for understanding bodily homeostasis. Blessing WW. **Trends Neurosci** 1997 Jun; 20(6):235–9 (44 ref.)

[Structure and functions of the cutaneous nervous system] Reznik M. **Pathol Biol (Paris)** 1996 Dec;44(10):831–7 (42 ref.) (Eng. Abstr.) **(Fre)**

[Surgical stress and nervous systems] Komatsu T, et al. **Masui** 1996 Dec;45 Suppl:S16–24 (36 ref.) **(Jpn)**

[Autonomic nerves controlling ejaculation—base of nerve sparing operation for ejaculation] Kihara K. **Nippon Hinyokika Gakkai Zasshi** 1997 May;88(5):511–27 (118 ref.) **(Jpn)**

[Inhibitory non–adrenergic, non–cholinergic nerves and nitric oxide] Aizawa H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:174–8 (Eng. Abstr.) **(Jpn)**

[Involvement of G proteins between receptors and KCa channels in the regulation of airway tone by the autonomic nervous system] Kume H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:116–24 (Eng. Abstr.) **(Jpn)**

[Pharmacological test] Hirayama M, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:491–3 (8 ref.) **(Jpn)**

[Autonomic regulation of pacemaker activity in the sinoatrial node] Honjo H, et al. **Nippon Rinsho** 1996 Aug; 54(8):2035–40 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Effects of repetitive physical training on neurogenic regulation of heart rate in healthy subjects] Takayanagi K, et al. **Nippon Seirigaku Zasshi** 1997;59(4):139–54 **(Jpn)**

[The role of the autonomic nervous system in airway hyperresponsiveness] Hanzlik J, et al. **Pol Arch Med Wewn** 1996 Aug;96(2):165–9 (23 ref.) **(Pol)**

[Is autonomic control of the heart rate at rest altered by detraining? A study of heart rate variability in professional soccer players after the pretraining period and after the preparatory period for competitions] Rebelo AN, et al. **Rev Port Cardiol** 1997 Jun;16(6):535–41, 508 (Eng. Abstr.) **(Por)**

[Character of autonomic reactions in patients after total ovariectomy and their changes with human fetal tissue transplantation] Kulakov VI, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):195–9 **(Rus)**

[The anti–arrhythmic effect of the mu–opiate receptor

agonists in adrenal arrhythmia: the role of the autonomic nervous system] Maslov LN, et al.
Biull Eksp Biol Med 1996 Jul;122(7):25–7 **(Rus)**
[The mechanism of the anti-arrhythmia action of mu-opioid-receptor agonists in a model of CaCl2-induced arrhythmias: the role of the autonomic nervous system] Maslov LN, et al. **Eksp Klin Farmakol** 1997 Jan–Feb; 60(1):35–7 (Eng. Abstr.) **(Rus)**
[Search for correlations between parameters of the kinetics of acid hemolysis of erythrocytes and the functional state of the body] Golenda IL, et al. **Fiziol Cheloveka** 1996 Jul–Aug;22(4):130–6 **(Rus)**
[A method for studying and automated analysis of the regulation of heart rate] Kuterman EM.
Fiziol Cheloveka 1996 Sep–Oct;22(5):128–31 **(Rus)**
[The synchronization of human circadian rhythm with social timers: the role of motivation. II. The rhythms of autonomic functions] Sorokin AA, et al.
Fiziol Cheloveka 1997 May–Jun;23(3):30–3 **(Rus)**
[The analysis of R–R intervals variability in assessment of autonomic regulation of cardiac rhythm (review of some data reported at the XVII and XVIII Congresses of European Cardiology Society)] Stepura OB, et al.
Klin Med (Mosk) 1997;75(4):57–9 **(Rus)**
[The effect of vagotomy on neuronal function in different sections of the autonomic nervous system] Varzin SA, et al. **Morfologiia** 1996;110(4):109–12 (Eng. Abstr.) **(Rus)**
[Autonomic regulation of cardiac activity in patients with ischemic heart disease and neurocirculatory dystonia: asymmetry of cardiac rhythmograms] Drozdov DV, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):5–8 (Eng. Abstr.) **(Rus)**
[Objective assessment of the olfactory analyzer function based on recording of olfacto-vegetative and olfacto-vestibular reactions] Ovchinnikov IuM, et al.
Vestn Otorinolaringol 1996 May–Jun;(3):19–20 (Eng. Abstr.) **(Rus)**
[The cross-correlational coefficients of cortical biopotentials and the autonomic indices during the mental reproduction of emotional states in man] Kostiunina MB.
Zh Vyssh Nerv Deiat Im I P Pavlova 1996 May–Jun; 46(3):600–3 **(Rus)**

PHYSIOPATHOLOGY

Autonomic nervous system functions in childhood essential hypertension. Yakinci C, et al. **Acta Paediatr Jpn** 1996 Dec; 38(6):611–3
Chemoreceptors in autonomic responses to hypoxia in conscious rats. Hayashida Y, et al. **Adv Exp Med Biol** 1996; 410:439–42
Relation of direct assessment of cardiac autonomic function with metaiodobenzylguanidine imaging to heart rate variability in diabetes mellitus. Freeman MR, et al.
Am J Cardiol 1997 Jul 15;80(2):247–50
Preservation of autonomic function following successful reperfusion with streptokinase within 12 hours of the onset of acute myocardial infarction. Kelly PA, et al.
Am J Cardiol 1997 Jan 15;79(2):203–5
Cardiac autonomic function and sensitivity to pain in postmenopausal women with angina and normal coronary arteries. Lanza GA, et al. **Am J Cardiol** 1997 May 1; 79(9):1174–9
Autonomic nervous function in essential hypertension in the elderly. Evaluation by power spectral analysis of heart rate variability. Kohara K, et al. **Am J Hypertens** 1996 Nov; 9(11):1084–9
Relationship between autonomic function and plasma fibrinogen, viscosity, and elements of fibrinolytic activity in diabetic nephropathy. Weinrauch LA, et al.
Am J Hypertens 1997 Apr;10(4 Pt 1):454–61
Does the chronic fatigue syndrome involve the autonomic nervous system? Freeman R, et al. **Am J Med** 1997 Apr; 102(4):357–64
Daily exercise and gender influence postexercise cardiac autonomic responses in hypertensive rats. Chen Y, et al.
Am J Physiol 1997 Mar;272(3 Pt 2):H1412–8
Hypothyroid-induced changes in autonomic control have a central serotonergic component. Henley WN, et al.
Am J Physiol 1997 Feb;272(2 Pt 2):H894–903
Effect of carbon dioxide on autonomic cardiovascular responses to systemic hypoxia in conscious rats. Hirakawa H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R747–54
Autonomic modulation of ventricular rate in atrial fibrillation. Nagayoshi H, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 2):H1643–9
Lack of peripheral modulation of cardiovascular central oscillatory autonomic activity during apnea in humans. Passino C, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H123–9
Autonomic reactivity and hormonal secretion in lactate-induced panic attacks. Seier FE, et al.
Am J Physiol 1997 Jun;272(6 Pt 2):H2630–8
Autonomic control of blood pressure and heart rate in obese hypertensive dogs. Truett AA, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R541–9
Peripheral and spinal actions of opioids in the blockade of the autonomic response evoked by compression of the inflamed knee joint. Nagasaka H, et al. **Anesthesiology** 1996 Oct;85(4):808–16
Changes in cardiac autonomic activities in patients with syndrome X. A study of spectral analysis of heart rate variability. Lee WL, et al. **Angiology** 1996 Oct; 47(10):929–39
Role of the autonomic nervous system in the acute blood pressure elevation during repetitive hypoxic and hypercapnic breathing in rats. Bakehe M, et al.
Blood Press 1996 Nov;5(6):371–5
The autonomic nervous system and the immune system in juvenile rheumatoid arthritis. Kuis W, et al.
Brain Behav Immun 1996 Dec;10(4):387–98
Role of catecholamines in the frontal cortex in the modulation of basal and stress-induced autonomic output in rats. Funk D, et al. **Brain Res** 1996 Nov 25;741(1–2):220–9
Contribution of sacral spinal cord neurons to the autonomic and somatic consequences of withdrawal from morphine in the rat. Rohde DS, et al. **Brain Res** 1997 Jan 16; 745(1–2):83–95
Central actions of corticotropin releasing factor on sensori-autonomic processing in normotensive and hypertensive rats. Youngblood K, et al. **Brain Res** 1996 Sep 23;734(1–2):175–85
Dysautonomic and reflex syncope syndromes. Grubb BP, et al. **Cardiol Clin** 1997 May;15(2):257–68 (49 ref.)
Overfeeding, autonomic regulation and metabolic consequences. Scheurink AJ, et al.
Cardiovasc Drugs Ther 1996 Jun;10 Suppl 1:263–73 (62 ref.)
Volume reflex in diabetes. Patel KP. **Cardiovasc Res** 1997 Apr;34(1):81–90 (78 ref.)
Primary autonomic or neuroendocrinological involvement in patients with trigeminal neuralgia [letter; comment] De Marinis M. **Cephalalgia** 1997 Apr;17(2):131–2. Comment on: Cephalalgia 1996 Nov;16(7):476–80.
Autonomic regulation in asthmatics with gastroesophageal reflux [see comments] Lodi U, et al. **Chest** 1997 Jan; 111(1):65–70. Comment in: Chest 1997 Jan;111(1):8–11.
Vagotonia and bronchial asthma [editorial; comment] Szentivaneji A, et al. **Chest** 1997 Jan;111(1):8–11. Comment on: Chest 1997 Jan;111(1):65–70.
The effect of thrombolytic therapy on short- and long-term cardiac autonomic activity in patients with acute myocardial infarction. Chen CK, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1996 Dec;58(6):392–9
Hyperreactivity to nitrovasodilators in forearm vasculature is related to autonomic dysfunction in insulin-dependent diabetes mellitus [see comments] Mäkimattila S, et al.
Circulation 1997 Feb 4;95(3):618–25. Comment in: Circulation 1997 Feb 4;95(3):560–1.
Left-insular cortex lesions perturb cardiac autonomic tone in humans. Oppenheimer SM, et al. **Clin Auton Res** 1996 Jun;6(3):131–40
Cardiac repolarization interval in end-stage diabetic and nondiabetic renal disease. Kirvelä M, et al. **Clin Cardiol** 1997 Sep;20(9):791–6
Heart rate variability as a measure of autonomic nervous system function in anorexia nervosa. Petretta M, et al.
Clin Cardiol 1997 Mar;20(3):219–24
Autonomic responses to orthostatic stress in head-up tilt testing: relationship to test-induced prolonged asystole. Takase B, et al. **Clin Cardiol** 1997 Mar;20(3):233–8
Heart rate variability and cardiac autonomic function in a case of Wegener's granulomatosis [letter] Laganà B, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):449–50
Haemodynamic changes during vasodepressor syncope in children and autonomic function. Tanaka H, et al.
Clin Physiol 1997 Mar;17(2):121–33
Autonomic nervous function during haemodialysis assessed by spectral analysis of heart-rate variability. Cavalcanti S, et al. **Clin Sci (Colch)** 1997 Apr;92(4):351–9
Mechanisms and implications of autonomic nervous system dysfunction in heart failure. Middlekauff HR.
Curr Opin Cardiol 1997 May;12(3):265–75 (61 ref.)
Autonomic dysfunction in non-insulin-dependent diabetes mellitus and fibrocalculous pancreatic diabetes in south India. Mohan V, et al. **Diabet Med** 1996 Dec;13(12):1038–43
Abnormal QTc intervals and autonomic dysfunction [letter; comment] Vardhan A, et al. **Diabet Med** 1996 Aug; 13(8):772–3. Comment on: Diabet Med 1995 Apr;12(4):302–6.
Impact of disease duration on cardiovascular and pupillary autonomic nervous function in IDDM and NIDDM patients. Straub RH, et al. **Diabetes Care** 1996 Sep; 19(9):960–7
Demonstration of regional sympathetic denervation of the heart in diabetes. Comparison between patients with NIDDM and IDDM. Turpeinen AK, et al.
Diabetes Care 1996 Oct;19(10):1083–90
Why does diabetic autonomic neuropathy predict IDDM mortality? An analysis from the Pittsburgh Epidemiology of Diabetes Complications Study. Orchard TJ, et al.
Diabetes Res Clin Pract 1996 Oct;34 Suppl:S165–71
Pharmacologic modulation of autonomic tone: implications for the diabetic patient [see comments] Aronson D.
Diabetologia 1997 Apr;40(4):476–81 (62 ref.). Comment in: Diabetologia 1997 Apr;40(4):482–4.
Assessment of baroreceptor-cardiac reflex sensitivity using time domain analysis in patients with IDDM and the relation to left ventricular mass index. Weston PJ, et al.
Diabetologia 1996 Nov;39(11):1385–91
Alteration of cardiac function in patients with temporal lobe epilepsy: different roles of EEG-ECG monitoring and spectral analysis of RR variability. Massetani R, et al.
Epilepsia 1997 Mar;38(3):363–9
Autonomic dysfunction in hyperadrenergic orthostatic hypotension [letter] Sechi LA, et al. **Eur Heart J** 1996 Sep; 17(9):1450
Cardiovascular and catecholamine changes induced by supine exercise and upright posture in vasovagal syncope. Comparisons with normal subjects and subjects with sympathetic denervation. Smith GD, et al. **Eur Heart J** 1996 Dec;17(12):1882–90
Cardiac autonomic dysfunction in relapsing-remitting multiple sclerosis during a stable phase. Giubilei F, et al.
Eur Neurol 1996;36(4):211–4
Abnormal autonomic stress responses in obstructive sleep apnoea are reversed by nasal continuous positive airway pressure. Veale D, et al. **Eur Respir J** 1996 Oct;9(10):2122–6
Further characterization of autonomic involvement in multiple system atrophy: a pupillometric study. Micieli G, et al. **Funct Neurol** 1995 Nov–Dec;10(6):273–80
Cardiac autonomic involvement and peripheral nerve function in patients with diabetic neuropathy. Spitzer A, et al. **Funct Neurol** 1997 May–Aug;12(3–4):115–22
Heart rate and blood pressure variability in cardiac diseases: pharmacological implications. Cloarec-Blanchard L.
Fundam Clin Pharmacol 1997;11(1):19–28 (98 ref.)
Impaired cardiovascular autonomic response to passive tilting in cirrhosis with ascites. Laffi G, et al. **Hepatology** 1996 Nov;24(5):1063–7
A study of autonomic status and its effect on ventilatory functions in bronchial asthma. Gupta S, et al.
Indian J Chest Dis Allied Sci 1996 Jul–Sep;38(3):147–56
Autonomic dysfunction and peripheral vasodilatory response in diabetes. Deepak KK, et al.
Indian J Physiol Pharmacol 1996 Oct;40(4):325–9
Study of pulmonary and autonomic functions of asthma patients after yoga training. Khanam AA, et al.
Indian J Physiol Pharmacol 1996 Oct;40(4):318–24
Autonomic nervous system imbalance and left ventricular systolic dysfunction as potential candidates for arrhythmogenesis in Becker muscular dystrophy. Ducceschi V, et al. **Int J Cardiol** 1997 May 23;59(3):275–9
Impact of atrioventricular delay on heart rate variability of paced patients with and without heart failure. Simantirakis E, et al. **Int J Cardiol** 1995 Dec;52(3):235–9
Sympathetic inhibition with clonidine improves autonomic balance in congestive heart failure. You-hua Z, et al.
Int J Cardiol 1997 Apr 18;59(2):139–44
Electrophysiological evaluation of peripheral autonomic function in leprosy patients, leprosy contacts and controls. Wilder-Smith A, et al. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4):433–40
Cardiac autonomic nerve function and insulin sensitivity in obese subjects. Richter WO, et al.
Int J Obes Relat Metab Disord 1996 Oct;20(10):966–9
Autonomic orienting and the allocation of processing resources in schizophrenia patients and putatively at-risk individuals. Hazlett EA, et al. **J Abnorm Psychol** 1997 May; 106(2):171–81
Anxiety and autonomic regulation in major depressive disorder: an exploratory study. Tulen JH, et al.
J Affect Disord 1996 Sep 9;40(1–2):61–71
Influence of specific emotional states on autonomic reactivity and pulmonary function in asthmatic children. Miller BD, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):669–77
Autonomic changes associated with spontaneous coronary spasm in patients with variant angina. Lanza GA, et al.
J Am Coll Cardiol 1996 Nov 1;28(5):1249–56
Randomized trial of a hospital-based exercise training program after acute myocardial infarction: cardiac autonomic effects. Leitch JW, et al. **J Am Coll Cardiol** 1997 May;29(6):1263–8
Effect of high intensity drive train stimulation on dispersion of atrial refractoriness: role of autonomic nervous system. Yu WC, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1000–6
Neurological testing in erectile dysfunction. Diemont WL, et al. **J Androl** 1997 Jul–Aug;18(4):345–50 (38 ref.)
Alterations in autonomic adjustments to acute hypoxia in conscious rats with aging. Kregel KC. **J Appl Physiol** 1996 Feb;80(2):540–6
Hypoxia- and normoxia-induced reversibility of autonomic control in Andean guinea pig heart. León-Velarde F, et al. **J Appl Physiol** 1996 Nov;81(5):2229–34
Clinical assessment of autonomic functions in anemics. Lakhotia M, et al. **J Assoc Physicians India** 1996 Aug; 44(8):534–6
Non-neurogenic periodic fluctuations in heart rate and vasomotion appearing in familial amyloid polyneuropathy (FAP) Type I (Met30). Abe M, et al.
J Auton Nerv Syst 1996 Aug 27;60(1–2):71–5
Autonomic response to change of posture among normal and mild-hypertensive adults: investigation by time-dependent spectral analysis. Akselrod S, et al. **J Auton Nerv Syst** 1997 May 12;64(1):33–43
Antihypertensive treatment and heart rate variability in diabetic patients: role of cardiac autonomic neuropathy. Salo TM, et al. **J Auton Nerv Syst** 1996 Aug 27; 60(1–2):61–70
Hysteresis in atrial refractoriness in the conscious dog: influence of stimulation parameters and control by the autonomic nervous system. Boucher M, et al.
J Cardiovasc Pharmacol 1996 Dec;28(6):842–7
Changes in cardiac autonomic control during nocturnal repetitive oxygen desaturation episodes in patients with coronary artery disease. Keyl C, et al.
J Cardiovasc Risk 1996 Apr;3(2):221–7
Respiratory sinus arrhythmia in children with severe cyanotic

breath-holding spells. DiMario FJ Jr, et al. **J Child Neurol** 1997 Jun;12(4):260–2

Tourniquet-induced hypertension correlates with autonomic nervous system changes detected by power spectral heart rate analysis. Tetzlaff JE, et al. **J Clin Anesth** 1997 Mar; 9(2):138–42

Emotional arousal in temporal lobectomy: autonomic and performance effects of success and failure feedback. Davidson RA, et al. **J Clin Exp Neuropsychol** 1996 Apr; 18(2):249–58

Neurally mediated syncope: a review of cardiac and arterial receptors. Grimm DR. **J Clin Neurophysiol** 1997 May; 14(3):170–82 (142 ref.)

Cardiac autonomic function during sleep in several neuropsychiatric disorders. Ferini-Strambi L, et al. **J Neurol** 1997 Apr;244(4 Suppl 1):S29–36

Cardiac autonomic regulation during sleep in panic disorder [letter] Ferini-Strambi L, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):421–2

Autonomic profile of subjects prone to fainting. Ferrer T, et al. **J Neurol Sci** 1996 Jan;135(1):38–42

Peripheral autonomic nerve dysfunction in asymptomatic leprosy contacts. Wilder-Smith E, et al. **J Neurol Sci** 1997 Sep 1;150(1):33–8

Stress responses in preterm neonates after normal and at-risk pregnancies. Van Reempts PJ, et al. **J Paediatr Child Health** 1996 Oct;32(5):450–6

Autonomic nervous system function in rheumatoid arthritis. A controlled study. Bekkelund SI, et al. **J Rheumatol** 1996 Oct;23(10):1710–4

Diminished autonomic nervous system responsiveness in rheumatoid arthritis of recent onset. Geenen R, et al. **J Rheumatol** 1996 Feb;23(2):258–64

The value of sympathetic skin response recordings in the assessment of the vesicourethral autonomic nervous dysfunction in spinal cord injured patients. Schurch B, et al. **J Urol** 1997 Jun;157(6):2230–3

Evaluation of autonomic nervous activity in patients with congenital long QT syndrome by an analysis of RR variability. Morita H, et al. **Jpn Circ J** 1996 Oct; 60(10):742–8

A case of hypertrophic obstructive cardiomyopathy associated with autonomic nervous dysfunction. Shimizu M, et al. **Jpn Circ J** 1996 Jun;60(6):371–6

Sensory and motor evoked potentials in multiple system atrophy: a comparative study with Parkinson's disease. Abbruzzese G, et al. **Mov Disord** 1997 May;12(3):315–21

Raynaud's phenomenon in a case of multiple system atrophy. Santens P, et al. **Mov Disord** 1996 Sep;11(5):586–8

Autonomic nervous system and adrenergic receptors in chronic hypotensive haemodialysis patients. Esforzado Armengol N, et al. **Nephrol Dial Transplant** 1997 May; 12(5):939–44

Cardiac autonomic nervous system activity in obese and never-obese young men. Arrone LJ, et al. **Obes Res** 1997 Jul;5(4):354–9

Autonomic nervous system activity during tilt testing in syncopal patients, estimated by power spectral analysis of heart rate variability. Kochiadakis GE, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1332–41

Mechanisms of heart rate and arterial blood pressure control: implications for the pathophysiology of neurocardiogenic syncope. Quan KJ, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):764–74 (37 ref.)

Bedside autonomic function testing in patients with vasovagal syncope. van den Berg, et al. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2039–42

Reduced autonomic responses to faces in Capgras delusion. Ellis HD, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22; 264(1384):1085–92

Autonomic activity in relation to cerebrospinal fluid neurochemistry in obsessive and disruptive children and adolescents. Zahn TP, et al. **Psychophysiology** 1996 Nov; 33(6):731–9

The association between diabetic nephropathy and autonomic nerve function in type 1 diabetic patients. Torffvit O, et al. **Scand J Clin Lab Invest** 1997 Apr;57(2):183–91

Disturbances of autonomic nervous function in primary Sjögren's syndrome. Mandl T, et al. **Scand J Rheumatol** 1997;26(4):253–8

Abnormal heart rate variability as a manifestation of autonomic dysfunction in hemispheric brain infarction. Korpelainen JT, et al. **Stroke** 1996 Nov;27(11):2059–63

[Weight loss and the functioning of the autonomic nervous system in sleep apnea patients] Pesonen PH, et al. **Duodecim** 1995;111(12):1136–40 **(Fin)**

[Stratification of patients at risk for sudden cardiac death with special reference to the autonomic nervous system] Hohnloser SH, et al. **Z Kardiol** 1996;85 Suppl 6:35–43 (53 ref.) (Eng. Abstr.) **(Ger)**

[A correlation between food allergy, the autonomic nervous system and the central nervous system: a study of 8 patients in childhood] De Luca L, et al. **Pediatr Med Chir** 1996 Nov-Dec;18(6):565–71 (18 ref.) (Eng. Abstr.) **(Ita)**

[Effects of physical training on autonomic nerve activity in patients with acute myocardial infarction] Fujimoto S, et al. **J Cardiol** 1997 Feb;29(2):85–93 (Eng. Abstr.) **(Jpn)**

[Autonomic nervous function in patients with vertigo--evaluation for static function, variation and dynamic change using power spectral analysis of RR intervals] Seki S. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Apr;100(4):457–66 (Eng. Abstr.) **(Jpn)**

[Classification for bronchial asthma from the viewpoint of autonomic nerve function and airway hyperreactivity] Inoue H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:104–5 (Eng. Abstr.) **(Jpn)**

[Physiological test] Hirayama M, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:487–90 (7 ref.) **(Jpn)**

[Mitral valve prolapse and autonomic activity in normal women] Tamaki K, et al. **Rinsho Byori** 1997 Jun;45(6):590–4 (Eng. Abstr.) **(Jpn)**

[Autonomic nervous activity in migraine] Araki N. **Rinsho Shinkeigaku** 1995 Dec;35(12):1336–8 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Effects of mental adaptation on vegetative, hormonal and sensory reactions in preoperative period] Sergeenko NI, et al. **Anesteziol Reanimatol** 1997 Mar-Apr;(2):37–40 (Eng. Abstr.) **(Rus)**

[The state of autonomic regulation in patients with postcastration syndrome undergoing human fetal tissue transplantation] Kulakov VI, et al. **Biull Eksp Biol Med** 1994 Apr;117(4):378–81 **(Rus)**

[The role of heart autonomic nerves in the mechanism of antiarrhythmic effect of beta-endorphin during experimental myocardial ischemia] Mikhaĭlova SD, et al. **Biull Eksp Biol Med** 1997 May;123(5):509–11 **(Rus)**

[Use of the vegetative index in optimization of premedication in patients with stomach and duodenal ulcer] Spitsyn ON, et al. **Klin Khir** 1996;(8):15–6 **(Rus)**

[State of autonomic regulation in patients with mitral valve prolapse and dysfunction of sinus node] Nedostup AV, et al. **Klin Med (Mosk)** 1996;74(3):35–9 (Eng. Abstr.) **(Rus)**

[The characteristics of the psychoautonomic status of patients with chronic combined diseases of the digestive organs] Klimenko EF. **Lik Sprava** 1997 Jan-Feb;(1):54–8 (Eng. Abstr.) **(Rus)**

[Autonomic status and neurohumoral regulation in patients with refractory tachyarrhythmia] Kupnovitskaia IG, et al. **Lik Sprava** 1996 Jan-Feb;(1-2):53–6 (Eng. Abstr.) **(Rus)**

[Autonomic regulation in periodontitis] Turbina LG, et al. **Stomatologiia (Mosk)** 1995;74(6):69–71 (Eng. Abstr.) **(Rus)**

[The effect of balneotherapy on the autonomic indices in children with neurocirculatory dystonia] Babina LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May-Jun; (3):24–6 (Eng. Abstr.) **(Rus)**

[The effect of a low-frequency alternating magnetic field on the autonomic nervous system in children with primary arterial hypertension] Konova OM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar-Apr; (2):8–10 (Eng. Abstr.) **(Rus)**

[Patterns in the change of the evoked skin autonomic potential in nervous system diseases] Mikhaĭlenko AA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997; 97(4):58–61 (Eng. Abstr.) **(Rus)**

[Autonomic regulation of cardiac activity and the status of central hemodynamics in patients with idiopathic mitral valve prolapse] Shmyrev VI, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):25–8 (Eng. Abstr.) **(Rus)**

[Autonomic nervous system tests in the classification of patients at risk for sudden cardiac death] Kaliská G, et al. **Bratisl Lek Listy** 1996 Aug;97(8):473–8 (Eng. Abstr.) **(Slo)**

SURGERY

A comparison of morphological effects on the rabbit nasal and sinus mucosa after surgical denervation and topical capsaicin application. Norlander T, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):205–13

Changes in cardiocirculatory autonomic function after thoracoscopic upper dorsal sympathicolysis for essential hyperhidrosis. Noppen M, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):115–20

[Autonomic nerves controlling ejaculation--base of nerve sparing operation for ejaculation] Kihara K. **Nippon Hinyokika Gakkai Zasshi** 1997 May;88(5):511–27 (118 ref.) **(Jpn)**

ULTRASTRUCTURE

Seasonal variations in the frontal organ of the frog: structural evidence and physiological correlates. Guglielmotti V, et al. **Comp Biochem Physiol A Physiol** 1997 Feb; 116(2):137–41

AUTONOMIC NERVOUS SYSTEM DISEASES

Autonomic dysreflexia/hyperreflexia. Comarr AE, et al. **J Spinal Cord Med** 1997 Jul;20(3):345–54 (92 ref.)

[Anesthetic management for a patient with pure autonomic failure] Kida K, et al. **Masui** 1997 Jun;46(6):813–7 (Eng. Abstr.) **(Jpn)**

BLOOD

Plasma sulfoconjugated dopamine levels are normal in patients with autonomic failure. Yamamoto T, et al. **J Lab Clin Med** 1996 Nov;128(5):488–91

CHEMICALLY INDUCED

Serotonin syndrome complicating migraine pharmacotherapy. Mathew NT, et al. **Cephalalgia** 1996 Aug;16(5):323–7

Autonomic cardiac abnormalities in alcohol-dependent patients admitted to a psychiatric department. Rechlin T, et al. **Clin Auton Res** 1996 Apr;6(2):119–22

Serotonin syndrome and drug combinations: focus on MAOI and RIMA. Hilton SE, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(3):113–9 (49 ref.)

Hypothesis for synergistic toxicity of organophosphorus poisoning-induced cholinergic crisis and anaphylactoid reactions. Cowan FM, et al. **J Appl Toxicol** 1996 Jan-Feb; 16(1):25–33 (79 ref.)

Selective serotonin reuptake inhibitor-induced serotonin syndrome: review. Lane R, et al. **J Clin Psychopharmacol** 1997 Jun;17(3):208–21 (149 ref.)

Isolated venlafaxine-induced serotonin syndrome. Kolecki P. **J Emerg Med** 1997 Jul-Aug;15(4):491–3

Belly dystonia induced by levodopa and biperiden in a case of suspected multiple-system atrophy. Shan DE, et al. **Mov Disord** 1996 Jul;11(4):455–7

Misoprostol associated autonomic dysreflexia in a traumatic tetraplegic patient [letter] Vaidyanathan S, et al. **Paraplegia** 1996 Feb;34(2):121–2

[A case of malignant syndrome triggered by the use of haloperidol and chrorpromazine] Konishi K, et al. **Masui** 1997 Apr;46(4):547–8 (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Autonomic failure and orthostatic hypotension [editorial] Schatz IJ. **Hosp Pract (Off Ed)** 1997 May 15;32(5):15–6, 19–20

Sympathetic cardioneuropathy in dysautonomias [see comments] Goldstein DS, et al. **N Engl J Med** 1997 Mar 6;336(10):696–702. Comment in: N Engl J Med 1997 Mar 6;336(10):721–4. Comment in: N Engl J Med 1997 Jul 24;337(4):278–80.

Autonomic disorders and their recognition [editorial; comment] Mathias CJ. **N Engl J Med** 1997 Mar 6; 336(10):721–4. Comment on: N Engl J Med 1997 Mar 6;336(10):696–702.

Disorders of the autonomic nervous system [letter; comment] Schatz IJ, et al. **N Engl J Med** 1997 Jul 24;337(4):278–80 . Comment on: N Engl J Med 1996 Mar 6;336(10):696–702.

COMPLICATIONS

Study of gastric emptying in patients with pancreatic diabetes (chronic pancreatitis) using acetaminophen and isotope. Nakamura T, et al. **Acta Gastroenterol Belg** 1996 Jul-Sep; 59(3):173–7

Autonomic dysfunction in Parkinson's disease assessed by sympathetic skin response: a prospective clinical and neurophysiological trial on 50 patients. Braune HJ, et al. **Acta Neurol Scand** 1997 May;95(5):293–7

Autonomic neuropathy predisposing to arrhythmias in hemodialysis patients. Jassal SV, et al. **Am J Kidney Dis** 1997 Aug;30(2):219–23

Autonomic dysfunction associated with locked-in syndrome in a child. Scott JS, et al. **Am J Phys Med Rehabil** 1997 May-Jun;76(3):200–3

Erythropoietin treatment for postural hypotension from autonomic dysfunction [letter] Nair B, et al. **Aust N Z J Med** 1996 Dec;26(6):859–60

Autoimmune autonomic failure in a patient with myeloma-associated Shy-Drager syndrome. Goldstein DS, et al. **Clin Auton Res** 1996 Feb;6(1):17–21

Cardiovascular autonomic dysfunction in sickle cell anemia: a possible risk factor for sudden death? Romero Mestre JC, et al. **Clin Auton Res** 1997 Jun;7(3):121–5

Is autonomic neuropathy a risk factor for severe hypoglycaemia? The EURODIAB IDDM Complications Study. Stephenson JM, et al. **Diabetologia** 1996 Nov; 39(11):1372–6

Alteration of cardiac function in patients with temporal lobe epilepsy: different roles of EEG-ECG monitoring and spectral analysis of RR variability. Massetani R, et al. **Epilepsia** 1997 Mar;38(3):363–9

Hemiballism in a patient with probable multiple system atrophy. Testa D, et al. **Funct Neurol** 1997 Jan-Feb; 12(1):45–9

Autonomic nervous system disorders and erectile dysfunction. Mathias CJ. **Int J STD AIDS** 1996;7 Suppl 3:5–8 (4 ref.)

Non-traditional risk factors for atherosclerosis in high risk children. Blieden LC, et al. **Isr J Med Sci** 1996 Dec; 32(12):1255–61

Central apnea in a child with congenital autonomic dysfunction and universal pain loss. Hansen A, et al. **J Child Neurol** 1996 Mar;11(2):162–4

Neurally mediated syncope and syncope due to autonomic failure: differences and similarities. Kaufmann H. **J Clin Neurophysiol** 1997 May;14(3):183–96 (73 ref.)

Autonomic gastroenteric disorders in children due to lesions of cranial nerve nuclei, spinal cord and peripheral innervation. Guzzetta F, et al. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S24–5

Autonomic and sensorimotor neuropathy in patients with systemic lupus erythematosus and systemic sclerosis. Straub RH, et al. **J Rheumatol** 1996 Jan;23(1):87–92

Diabetic cystopathy: relationship to autonomic neuropathy detected by sympathetic skin response. Ueda T, et al. **J Urol** 1997 Feb;157(2):580–4

Autonomic dysfunction in hemodialysis patients with persistent hypotension. Takahashi H, et al. **Nephron** 1996; 72(3):418–23

The treatment of postprandial hypotension in autonomic failure with 3,4-DL-threo-dihydroxyphenylserine [see comments] Freeman R, et al. **Neurology** 1996 Dec; 47(6):1414–20. Comment in: Neurology 1996 Dec;47(6):1370–1.

REM sleep behavior disorders in multiple system atrophy. Plazzi G, et al. **Neurology** 1997 Apr;48(4):1094–7

Disturbed gastric motor activity in patients with human immunodeficiency virus infection. Konturek JW, et al. **Scand J Gastroenterol** 1997 Mar;32(3):221–5

Recurrence of acute colonic pseudo-obstruction in selective adrenergic dysautonomia associated with infectious toxoplasmosis. Polignano FM, et al. **Scand J Gastroenterol** 1997 Jan;32(1):89–94

Gastrointestinal dysfunction in neurologic disease. Camilleri M, et al. **Semin Neurol** 1996 Sep;16(3):203–16 (67 ref.)

Autonomic hyperreflexia associated with recurrent cardiac arrest: case report. Colachis SC 3rd, et al. **Spinal Cord** 1997 Apr;35(4):256–7

Impact of autonomic neuropathy on circulatory instability during liver transplantation for familial amyloidotic polyneuropathy. Suhr OB, et al. **Transplantation** 1997 Mar 15;63(5):675–9

[Autonomic neuropathy in the diabetic patient. Recommandations de ALFEDIAM] Valensi P, et al. **Diabetes Metab** 1997 Feb;23(1):89–99 **(Fre)**

[Autonomic hyperreflexia, pregnancy and delivery in para-tetraplegia. The obstetric anesthesiologic viewpoint on a case] Plötz J, et al. **Anaesthesist** 1996 Dec; 45(12):1179–83 (Eng. Abstr.) **(Ger)**

[Syncopes from the neurologic viewpoint] Scollo-Lavizzari G, et al. **Ther Umsch** 1997 Mar;54(3):135–43 (9 ref.) (Eng. Abstr.) **(Ger)**

[Fisher's syndrome with profound hypotension] Arai M, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):797–9 (Eng. Abstr.) **(Jpn)**

[A Japanese family with probably autosomal dominant adult-onset leukodystrophy] Asahara H, et al. **Rinsho Shinkeigaku** 1996 Aug;36(8):968–72 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Cardiovascular alpha-, beta 1- and beta 2-adrenoceptor functions in neurogenic orthostatic hypotension] Tamura N, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1120–4 (Eng. Abstr.) **(Jpn)**

[Progressive autonomic failure] Moriguchi A, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):449–50 (7 ref.) **(Jpn)**

DIAGNOSIS

Autonomic dysfunction in Parkinson's disease assessed by sympathetic skin response: a prospective clinical and neurophysiological trial on 50 patients. Braune HJ, et al. **Acta Neurol Scand** 1997 May;95(5):293–7

Power spectrum analysis contribution to the detection of cardiovascular dysautonomia in multiple sclerosis. Frontoni M, et al. **Acta Neurol Scand** 1996 Apr;93(4):241–5

Correlation of the pilo-pupil ratio average, a new test for autonomic denervation, to the severity of diabetic retinopathy. Sharma S, et al. **Can J Ophthalmol** 1997 Apr; 32(3):170–4

Cardiovascular parameters: sensitivity to detect autonomic dysfunction and influence of age and sex in normal subjects. Braune S, et al. **Clin Auton Res** 1996 Feb;6(1):3–15

Validation of a computerised measurement system for guided routine evaluation of cardiovascular autonomic neuropathy. Vespasiani G, et al. **Comput Methods Programs Biomed** 1996 Nov;51(3):211–6

Cephalic phase of pancreatic polypeptide release: a valid test of autonomic neuropathy in diabetics? Glasbrenner B, et al. **Diabetes Res Clin Pract** 1995 Nov;30(2):117–23

Memory dysfunction and autonomic neuropathy in non-insulin-dependent (type 2) diabetic patients. Zaslavsky LM, et al. **Diabetes Res Clin Pract** 1995 Nov;30(2):101–10

Significance of sympathetic skin response in the assessment of autonomic failure in patients with spinal cord injury. Curt A, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):175–80

Examining the diagnostic utility of the Fuld cholinergic deficit profile on the Japanese WAIS-R. Yamashita H, et al. **J Clin Exp Neuropsychol** 1997 Apr;19(2):300–4

Assessment of autonomic dysreflexia in patients with spinal cord injury. Curt A, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):473–7

Consensus statement on the definition of orthostatic hypotension, pure autonomic failure, and multiple system atrophy. **J Neurol Sci** 1996 Dec;144(1–2):218–9 (0 ref.)

Distinction of idiopathic Parkinson's disease from multiple-system atrophy by stimulation of growth-hormone release with clonidine. Kimber JR, et al. **Lancet** 1997 Jun 28;349(9069):1877–81

Sympathetic skin response and R-R interval variability in multiple system atrophy and idiopathic Parkinson's disease. Bordet R, et al. **Mov Disord** 1996 May;11(3):268–72

Autonomic evaluation by means of standard tests and power spectral analysis in multiple sclerosis. Linden D, et al. **Muscle Nerve** 1997 Jul;20(7):809–14

AAEM minimonograph #48: autonomic nervous system testing. Ravits JM. **Muscle Nerve** 1997 Aug;20(8):919–37 (103 ref.)

Mitochondrial encephalomyopathies presenting with features of autonomic and visceral dysfunction. Zelnik N, et al. **Pediatr Neurol** 1996 Apr;14(3):251–4

Autonomic neuropathy involving the bladder and urethra function. Autonomic cystopathy. Facts or fiction?—What do we know? Walter S. **Scand J Urol Nephrol Suppl** 1996; 179:67–8

[Neurovegetative symptoms in infants with sleep-related respiratory disorders] Niewerth HJ, et al. **Klin Padiatr** 1997 Mar-Apr;209(2):54–8 (Eng. Abstr.) **(Ger)**

[HIV-1 associated autonomic dysfunction (HIVAD)] Malessa R, et al. **Nervenarzt** 1996 Feb;67(2):147–54 (Eng. Abstr.) **(Ger)**

[Magnetic resonance spectroscopy in Parkinson's disease and multiple system atrophy] Aotsuka A, et al. **Nippon Rinsho** 1997 Jan;55(1):249–54 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Corrected QT interval and diabetic neuropathy of the cardiovascular system] Klupa T, et al. **Przegl Lek** 1995; 52(12):583–7 (Eng. Abstr.) **(Pol)**

[The connection between respiratory disorders during sleep and peripheral autonomic insufficiency in diabetics] Poluéktov MG, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(5):11–4 (Eng. Abstr.) **(Rus)**

[Autonomic disorders in Parkinson's disease] Sadekov RA. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):104–5 **(Rus)**

DRUG THERAPY

Symptomatic improvement with one-year cisapride treatment in neuropathic chronic intestinal dysmotility. Camilleri M, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):403–9

Efficacy of toki-shigyakuka-gosyuyu-syokyo-to (danggui-sini-jia-wuzhuyu-shengjiang-tang) on peripheral circulation in autonomic disorders. Kanai S, et al. **Am J Chin Med** 1997;25(1):69–78

Effect of chronic quinapril administration on heart rate variability in patients with diabetic autonomic neuropathy. Kontopoulos AG, et al. **Diabetes Care** 1997 Mar; 20(3):355–61

Effects of treatment with the antioxidant alpha-lipoic acid on cardiac autonomic neuropathy in NIDDM patients. A 4-month randomized controlled multicenter trial (DEKAN Study). Deutsche Kardiale Autonome Neuropathie. Ziegler D, et al. **Diabetes Care** 1997 Mar;20(3):369–73

Effects of metrifonate on memory impairment and cholinergic dysfunction in rats. Itoh A, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):11–9

Effectiveness of aldose reductase inhibitors for diabetic gastroenteropathy with constipation. Nakamura T, et al. **Intern Med** 1997 Jul;36(7):479–83

Treatment of acute pandysautonomia with intravenous immunoglobulin. Mericle RA, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):529–31

Could treatment with DOPS do for autonomic failure what DOPA did for Parkinson's disease? [editorial; comment] Kaufmann H. **Neurology** 1996 Dec;47(6):1370–1. Comment on: Neurology 1996 Dec;47(6):1414–20.

The angiogenesis inhibitor TNP-470 reduces the growth rate of human neuroblastoma in nude rats. Wassberg E, et al. **Pediatr Res** 1997 Mar;41(3):327–33

[The treatment with the antidepressant Lerivon of tension headaches and autonomic crises] Filatova EG, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):58–62 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Expression of glutamic acid decarboxylase in nervous tissue structures targeted by autoantibodies in patients with diabetic autonomic neuropathy. Zanone MM, et al. **J Neuroimmunol** 1997 Sep;78(1–2):1–7

[Gastrinemia and heparin stimulated secretion of diamine oxidase on the course of diabetic autonomic neuropathy] Loba J, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):10–3 (Eng. Abstr.) **(Pol)**

EPIDEMIOLOGY

Why does diabetic autonomic neuropathy predict IDDM mortality? An analysis from the Pittsburgh Epidemiology of Diabetes Complications Study. Orchard TJ, et al. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S165–71

Diabetic autonomic neuropathy. Low PA. **Semin Neurol** 1996 Jun;16(2):143–51 (81 ref.)

ETIOLOGY

Left ventricular performance and autonomic dysfunction in patients with long-term insulin-dependent diabetes mellitus. Irace L, et al. **Acta Diabetol** 1996 Dec;33(4):269–73

Postoperative autonomic deficit: a case of harlequin syndrome. Turco GR, et al. **Anesthesiology** 1996 Nov; 85(5):1197–9

Autonomic dysfunction as the presenting feature of Guillain-Barré syndrome. Ferraro-Herrera AS, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):777–9

Autonomic dysfunction in systemic sclerosis: time and frequency domain 24 hour heart rate variability analysis. Ferri C, et al. **Br J Rheumatol** 1997 Jun;36(6):669–76

Do high proinsulin and C-peptide levels play a role in autonomic nervous dysfunction?: Power spectral analysis in patients with non-insulin-dependent diabetes and nondiabetic subjects. Töyry JP, et al. **Circulation** 1997 Aug 19;96(4):1185–91

Chronic diarrhea in a 57-year-old woman with diabetes. Hussein WI, et al. **Cleve Clin J Med** 1997 Feb;64(2):107–8

Goitre and severe autonomic neuropathy due to secondary amyloidosis in a renal transplant patient [letter] Ok E, et al. **Clin Nephrol** 1996 May;45(5):361–2

Is diabetic heart muscle disease related to cardiac ischemia or autonomic neuropathy? Izumi T, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:77–83

Autonomic neuropathy and cardiovascular risk factors in insulin-dependent and non insulin-dependent diabetes. Spallone V, et al. **Diabetes Res Clin Pract** 1997 Jan; 34(3):169–79

Pourfour du Petit syndrome: a case following a traffic accident with severe cranioencephalic trauma. Avellanal M, et al. **Intensive Care Med** 1996 Oct;22(10):1090–92

Cyclic variability of blood pressure and heart rate in tetanus [letter] ter Maaten JC, et al. **Intensive Care Med** 1996 Nov; 22(11):1275–6

Creutzfeldt-Jakob disease associated with autonomic nervous system dysfunction in the early stage. Nomura E, et al. **Intern Med** 1997 Jul;36(7):492–6

Autonomic dysfunction after catheter ablation. Friedman PL, et al. **J Cardiovasc Electrophysiol** 1996 May;7(5):450–9 (41 ref.)

Autonomic neuropathy in extra-hepatic portal vein thrombosis: evidence for impaired autonomic reflex arc. Voigt MD, et al. **J Hepatol** 1997 Mar;26(3):634–41

Assessment of autonomic dysreflexia in patients with spinal cord injury. Curt A, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):473–7

Autonomic involvement in Wilson's disease: a study of sympathetic skin response and RR interval variation. Chu EC, et al. **J Neurol Sci** 1997 Aug;149(2):131–7

Autonomic neuropathy, II: Specific peripheral neuropathies. McDougall AJ, et al. **J Neurol Sci** 1996 Jun;138(1–2):1–13 (156 ref.)

Peripheral autonomic nerve dysfunction in asymptomatic leprosy contacts. Wilder-Smith E, et al. **J Neurol Sci** 1997 Sep 1;150(1):33–8

Autonomic neuropathy in diabetic children. Verrotti A, et al. **J Paediatr Child Health** 1995 Dec;31(6):545–8

Acute management of autonomic dysreflexia: adults with spinal cord injury presenting to health-care facilities. Consortium for spinal cord. **J Spinal Cord Med** 1997 Jul; 20(3):284–308

Autonomic hyperreflexia associated with exacerbation of reflex sympathetic dystrophy. Clinchot DM, et al. **J Spinal Cord Med** 1996 Oct;19(4):255–7

Surgical aspects of autonomic dysreflexia. Eltorai IM, et al. **J Spinal Cord Med** 1997 Jul;20(3):361–4

Autonomic dysreflexia: pharmacological management of hypertensive crises in spinal cord injured patients. Naftchi NE, et al. **J Spinal Cord Med** 1997 Jul;20(3):355–60 (34 ref.)

Autonomic dysreflexia and detrusor-sphincter dyssynergia in spinal cord injury patients. Perkash I. **J Spinal Cord Med** 1997 Jul;20(3):365–70

Autonomic nerve dysfunction in systemic lupus erythematosus: evidence for a mild involvement. Altomonte L, et al. **Lupus** 1997;6(5):441–4

[Neurological disorders associated with impaired glucose tolerance] Suzuki K. **Nippon Rinsho** 1996 Oct;54(10):2704–8 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Relations between autonomic dysfunction and skin sympathetic nerve activity in Guillain-Barré syndrome: a microneurographical assessment] Yamamoto K, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1098–103 (Eng. Abstr.) **(Jpn)**

[A case of familial amyotrophic lateral sclerosis with markedly decreased accumulation on 123I-MIBG myocardiac scintigraphy and atonic bladder] Yamamoto T, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):341–4 (Eng. Abstr.) **(Jpn)**

[Autonomic paroxysms: their pathogenesis, diagnosis and treatment] Odinak MM, et al. **Voen Med Zh** 1996 Nov; 317(11):37–45, 79 (Eng. Abstr.) **(Rus)**

GENETICS

Central apnea in a child with congenital autonomic dysfunction and universal pain loss. Hansen A, et al. **J Child Neurol** 1996 Mar;11(2):162–4

Machado-Joseph disease: cerebellar ataxia and autonomic dysfunction in a patient with the shortest known expanded allele (56 CAG repeat units) of the MJD1 gene. Takiyama Y, et al. **Neurology** 1997 Aug;49(2):604–6

[Familial amyloidotic polyneuropathy with a transthyretin variant (Val30-->Leu)] Shimizu H, et al. **No To Shinkei** 1996 Feb;48(2):175–8 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Reproducibility and persistence of neural and adrenal autoantibodies in diabetic autonomic neuropathy. Cachia MJ, et al. **Diabet Med** 1997 Jun;14(6):461–5

Autoantibodies against sympathetic ganglia and evidence of cardiac sympathetic dysinnervation in newly diagnosed and long-term IDDM patients. Schsnell O, et al. **Diabetologia** 1996 Aug;39(8):970–5

Immunological and endocrinological abnormalities in

paraneoplastic disorders with involvement of the autonomic nervous system. Riva M, et al. **Ital J Neurol Sci** 1997 Jun;18(3):157–61

METABOLISM

Impairment of calcitonin gene–related peptide–induced potentiation of cholinergic sweat secretion in patients with multiple system atrophy. Kumazawa K, et al. **Clin Auton Res** 1997 Apr;7(2):77–80

Measurement of myocardial accumulation of 123I–metaiodobenzylguanidine for studying cardiac autonomic neuropathy in diabetes mellitus. Mäntysaari M, et al. **Clin Auton Res** 1996 Jun;6(3):163–9

Pancreatic polypeptide response to food and autonomic neuropathy in diabetics [letter] Inui A, et al. **Diabetes Care** 1996 Jul;19(7):778–9

PATHOLOGY

The distribution of Lewy bodies in pure autonomic failure: autopsy findings and review of the literature. Hague K, et al. **Acta Neuropathol (Berl)** 1997 Aug;94(2):192–6 (16 ref.)

The distribution and dynamic density of oligodendroglial cytoplasmic inclusions (GCIs) in multiple system atrophy: a correlation between the density of GCIs and the degree of involvement of striatonigral and olivopontocerebellar systems. Inoue M, et al. **Acta Neuropathol (Berl)** 1997 Jun; 93(6):585–91

Inflammatory cell–rich gastrointestinal autonomic nerve tumor. An expansion of its histologic spectrum. Shek TW, et al. **Am J Surg Pathol** 1996 Mar;20(3):325–31

Differences between multiple system atrophy and olivopontocerebellar atrophy [letter; comment] Quinn N, et al. **Ann Neurol** 1996 Dec;40(6):945–6. Comment on: Ann Neurol 1996 Mar;39(3):416.

Gastrointestinal autonomic nerve tumor of the esophagus. A clinicopathologic, immunohistochemical, ultrastructural study of a case and review of the literature. Lam KY, et al. **Cancer** 1996 Oct 15;78(8):1651–9 (29 ref.)

Gastrointestinal autonomic nerve tumours: a report of nine cases. Shanks JH, et al. **Histopathology** 1996 Aug; 29(2):111–21

Gastrointestinal autonomic nerve tumor with giant abscess. A case report and literature review. Honda K, et al. **J Clin Gastroenterol** 1997 Jun;24(4):280–5 (12 ref.)

Early asymmetric neuropathy in primary Sjögren's syndrome. Denišlič M, et al. **J Neurol** 1997 Jun; 244(6):383–7

Autonomic and sensorimotor neuropathy in patients with systemic lupus erythematosus and systemic sclerosis. Straub RH, et al. **J Rheumatol** 1996 Jan;23(1):87–92

Gastrointestinal autonomic nerve tumors: immunohistochemical and ultrastructural studies in cases of gastrointestinal stromal tumor. Matsumoto K, et al. **Pathol Int** 1997 May;47(5):308–14

Gastrointestinal autonomic nerve tumor: a common type of gastrointestinal stromal neoplasm. Donner LR. **Ultrastruct Pathol** 1997 Sep–Oct;21(5):419–24

PHYSIOPATHOLOGY

Characterization and natural course of cardiac autonomic nervous dysfunction in HIV–infected patients. Becker K, et al. **AIDS** 1997 May;11(6):751–7

A pilot study of motility and tone of the left colon in patients with diarrhea due to functional disorders and dysautonomia. Choi MG, et al. **Am J Gastroenterol** 1997 Feb;92(2):297–302

Gallbladder motility in diabetes mellitus using real time ultrasonography. Hahm JS, et al. **Am J Gastroenterol** 1996 Nov;91(11):2391–4

Coarse graining spectral analysis of HR and BP variability in patients with autonomic failure. Blaber AP, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1555–64

Bronchial hyperreactivity in patients with familial amyloidotic polyneuropathy and autonomic neuropathy. Kawano O, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1465–8

Blood pressure rhythms in sleep disorders and dysautonomia. Cortelli P, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:204–21 (122 ref.)

Autonomic nervous system factors underlying disinhibited, antisocial, and violent behavior. Biosocial perspectives and treatment implications. Raine A. **Ann N Y Acad Sci** 1996 Sep 20;794:46–59 (53 ref.)

Consistency of microvascular and autonomic abnormalities in diabetes. Karachaliou FH, et al. **Arch Dis Child** 1996 Aug;75(2):124–8

Impaired blood flow response following pressure load in diabetic patients with cardiac autonomic neuropathy. van Marum RJ, et al. **Arch Phys Med Rehabil** 1997 Sep; 78(9):1003–6

Effects of physical training on heart rate variability in diabetic patients with various degrees of cardiovascular autonomic neuropathy. Howorka K, et al. **Cardiovasc Res** 1997 Apr;34(1):206–14

Influence of autonomic neuropathy of different severities on the hypercapnic drive to breathing in diabetic patients. Tantucci C, et al. **Chest** 1997 Jul;112(1):145–53

Sympathetic vasoconstrictor reflexes in Parkinson's disease with autonomic dysfunction. Andersen EB, et al. **Clin Auton Res** 1997 Feb;7(1):5–11

Consensus statement on the definition of orthostatic hypotension, pure autonomic failure and multiple system atrophy. Kaufmann H. **Clin Auton Res** 1996 Apr;6(2):125–6 (1 ref.)

The value of the isometric hand–grip test—studies in various autonomic disorders. Khurana RK, et al. **Clin Auton Res** 1996 Aug;6(4):211–8

Blood pressure and heart rate variability in autonomic disorders: a critical review. Omboni S, et al. **Clin Auton Res** 1996 Jun;6(3):171–82 (122 ref.)

Effect of meal size on post–prandial blood pressure and on postural hypotension in primary autonomic failure. Puvi–Rajasingham S, et al. **Clin Auton Res** 1996 Apr; 6(2):111–4

Neurohumoral, peptidergic and biochemical responses to supine exercise in two groups with primary autonomic failure: Shy–Drager syndrome/multiple system atrophy and pure autonomic failure. Smith GD, et al. **Clin Auton Res** 1996 Oct;6(5):255–62

Use of corrected QT interval in autonomic function testing: assessment of reproducibility. Veglio M, et al. **Clin Auton Res** 1996 Dec;6(6):309–12

Partial restoration of scintigraphically assessed cardiac sympathetic denervation in newly diagnosed patients with insulin–dependent (type 1) diabetes mellitus at one–year follow–up. Schnell O, et al. **Diabet Med** 1997 Jan; 14(1):57–62

Abnormal QTc intervals and autonomic dysfunction [letter; comment] Vardhan A, et al. **Diabet Med** 1996 Aug; 13(8):772–3. Comment on: Diabet Med 1995 Apr;12(4):302–6.

Contribution of autonomic neuropathy to reduced plasma adrenaline responses to hypoglycemia in IDDM: evidence for a nonselective defect. Bottini P, et al. **Diabetes** 1997 May;46(5):814–23

Long–term intensive therapy of IDDM patients with clinically overt autonomic neuropathy: effects on hypoglycemia awareness and counterregulation. Fanelli C, et al. **Diabetes** 1997 Jul;46(7):1172–81

The natural progression of autonomic neuropathy and autonomic function tests in a cohort of people with IDDM. Levitt NS, et al. **Diabetes Care** 1996 Jul;19(7):751–4

Slow gastric emptying in type I diabetes: relation to autonomic and peripheral neuropathy, blood glucose, and glycemic control. Merio R, et al. **Diabetes Care** 1997 Mar; 20(3):419–23

Diabetic autonomic neuropathy and the heart. Ewing DJ. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:31–6 (29 ref.)

Day–night blood pressure variation in normotensive and hypertensive NIDDM patients with asymptomatic autonomic neuropathy. Jermendy G, et al. **Diabetes Res Clin Pract** 1996 Oct;34(2):107–14

Effects of octreotide on manometric variables in patients with neuropathic abnormalities of the small bowel. Bassotti G, et al. **Dig Dis Sci** 1997 Aug;42(8):1634–9

Altered blood pressure profile, autonomic neuropathy and nephropathy in insulin–dependent diabetic patients. Monteagudo PT, et al. **Eur J Endocrinol** 1996 Dec; 135(6):683–8

Autonomic neuropathy in advanced liver disease [letter] Trevisani F, et al. **Hepatology** 1996 Dec;24(6):1549

Ventilatory response to exercise in diabetic subjects with autonomic neuropathy. Tantucci C, et al. **J Appl Physiol** 1996 Nov;81(5):1978–86

Decreased sympatho–adrenal activity in diabetic patients with autonomic dysfunction following mental stress. Forst T, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):31–6

Cardiovascular responses to tests for autonomic dysfunction in patients with chronic obstructive pulmonary disease with and without continuous long–term oxygen therapy. Hjalmarsen A, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):169–74

Autonomic neuropathy and salivary composition in diabetic patients. Ben–Aryeh H, et al. **J Diabetes Complications** 1996 Jul–Aug;10(4):226–7

Pulse oximetry for the assessment of autonomic neuropathy in diabetic patients. Modi KD, et al. **J Diabetes Complications** 1997 Jan–Feb;11(1):35–9

Relationships among glomerular filtration rate, albuminuria, and autonomic nerve function in insulin–dependent and non–insulin–dependent diabetes mellitus. Sterner NG, et al. **J Diabetes Complications** 1997 May–Jun;11(3):188–93

Factors involved in cardiac autonomic neuropathy in diabetic patients. Valensi P, et al. **J Diabetes Complications** 1997 May–Jun;11(3):180–7

Autonomic dysfunction in patients with non–alcoholic chronic liver disease. Oliver MI, et al. **J Hepatol** 1997 Jun; 26(6):1242–8

Ambulatory blood pressure measurement in type–II diabetic patients with autonomic neuropathy. Migdalis IN, et al. **J Med** 1996;27(5–6):333–40

Postganglionic cholinergic dysautonomia with incomplete recovery: a clinical, neurophysiological and immunological case study. Baron R, et al. **J Neurol** 1996 Jan;243(1):18–24 (46 ref.)

Autonomic neuropathy, I. Clinical features, investigation, pathophysiology, and treatment. McDougall AJ, et al. **J Neurol Sci** 1996 May;137(2):79–88 (78 ref.)

Cry threshold predicts regulatory disorder in newborn infants. Zeskind PS, et al. **J Pediatr Psychol** 1996 Dec; 21(6):803–19

Ambulatory long–term jejunal manometry in diabetic patients with cardiac autonomic neuropathy. Hackelsberger N, et al. **Neurogastroenterol Motil** 1997 Jun;9(2):77–83

Alcohol abuse exaggerates autonomic dysfunction in chronic liver disease. Lindgren S, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1120–4

Gastrointestinal dysfunction in autonomic neuropathy. Chelimsky G, et al. **Semin Neurol** 1996 Sep;16(3):259–68 (85 ref.)

Transfer function analysis of cerebral autoregulation dynamics in autonomic failure patients. Blaber AP, et al. **Stroke** 1997 Sep;28(9):1686–92

Cerebrovascular and cardiovascular responses to graded tilt in patients with autonomic failure. Bondar RL, et al. **Stroke** 1997 Sep;28(9):1677–85

Autonomic hyperreflexia revisited. Schurch B, et al. **Urol Int** 1997;58(3):148–52

Short–term frequency and time domain analysis of heart rate variability in type I diabetic subjects. Roithinger FX, et al. **Wien Klin Wochenschr** 1996;108(5):133–6

[Evaluation of the degree of diabetic dysautonomy with the analysis of heart rate measured at rest with the FINAPRES system] Mestivier D, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1051–4 (Eng. Abstr.) **(Fre)**

[Acute reversible pan–dysautonomia: effect of erythromycin on gastrointestinal involvement] Lagasse JP, et al. **Gastroenterol Clin Biol** 1997;21(4):331–4 (12 ref.) (Eng. Abstr.) **(Fre)**

[Possible involvement of the autonomic nervous system in herpes zoster] Prange H. **Internist (Berl)** 1996 Nov; 37(11):1168–9 **(Ger)**

[Clinical application of 24 hour Holter electrogastrography in diabetic autonomic neuropathy patients] Miyakawa K, et al. **J Smooth Muscle Res** 1995 Dec;31(6):427–8 **(Jpn)**

RADIOGRAPHY

Malignant autonomic nerve tumor of the duodenum. Jain KA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1461–3 (8 ref.)

RADIONUCLIDE IMAGING

Iodine–123 metaiodobenzylguanidine scintigraphic assessment of myocardial sympathetic innervation in patients with familial amyloid polyneuropathy. Tanaka M, et al. **J Am Coll Cardiol** 1997 Jan;29(1):168–74

Myocardial sympathetic dysinnervation in doxorubicin cardiomyopathy. Takano H, et al. **J Cardiol** 1996 Feb; 27(2):49–55

Abnormal myocardial uptake and clearance of 123I–labeled metaiodobenzylguanidine in patients with chronic renal failure and autonomic dysfunction. Miyanaga H, et al. **J Nucl Cardiol** 1996 Nov–Dec;3(6 Pt 1):508–15

Scintigraphic evaluation of cardiac autonomic innervation. Münch G, et al. **J Nucl Cardiol** 1996 May–Jun;3(3):265–77 (89 ref.)

Evaluation of cardiac sympathetic innervation with iodine–123–metaiodobenzylguanidine imaging in silent myocardial ischemia. Matsuo S, et al. **J Nucl Med** 1996 May;37(5):712–7

123I–MIBG myocardial scintigraphy in diabetic patients: relationship to autonomic neuropathy. Nagamachi S, et al. **Nucl Med Commun** 1996 Jul;17(7):621–32

[Total defect of metaiodobenzylguanidine (MIBG) imaging on heart in Parkinson's disease: assessment of cardiac sympathetic denervation] Satoh A, et al. **Nippon Rinsho** 1997 Jan;55(1):202–6 (Eng. Abstr.) **(Jpn)**

REHABILITATION

[Non–motor symptoms of Parkinson disease. Significant impact on quality of life—using possible treatments] Müller T, et al. **Fortschr Med** 1997 May 20;115(14):45–8 (0 ref.) (Eng. Abstr.) **(Ger)**

[The dynamics of the autonomic indices during the health resort treatment of children who live in areas contaminated by radiation] Shvedunova LN. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb;(1):34–5 **(Rus)**

THERAPY

Diabetic gastrointestinal autonomic neuropathy. Karras PJ, et al. **Curr Ther Endocrinol Metab** 1997;6:462–5 (0 ref.)

Diabetic neuropathy: therapies for peripheral and autonomic symptoms. Emanuele NV, et al. **Geriatrics** 1997 Apr; 52(4):40–2, 45–9 (31 ref.)

Acute management of autonomic dysreflexia: adults with spinal cord injury presenting to health–care facilities. Consortium for spinal cord. **J Spinal Cord Med** 1997 Jul; 20(3):284–308

Autonomic dysreflexia: pharmacological management of hypertensive crises in spinal cord injured patients. Naftchi NE, et al. **J Spinal Cord Med** 1997 Jul;20(3):355–60 (34 ref.)

Unusual recovery from acute panautonomic neuropathy after immunoglobulin therapy. Smit AA, et al. **Mayo Clin Proc** 1997 Apr;72(4):333–5

[A case of autonomic nervous dysfunction caused by technostress who was effectively treated with psychosomatic therapy and long rest from work] Uchida E, et al. **Sangyo Eiseigaku Zasshi** 1997 Jan;39(1):46–7 **(Jpn)**

[The phototherapy of psycho–autonomic disorders]

Solov'eva AD, et al.
Zh Nevropatol Psikhiatr Im S S Korsakova 1996;96(3):67–71 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Orthostatic dysregulation in progressive autonomic failure—a transcranial Doppler sonography monitoring. Titianova E, et al. **J Neurol Sci** 1997 Feb 27;146(1):87–91

VETERINARY

An evaluation of the use of cisapride in horses with chronic grass sickness (equine dysautonomia) [see comments] Milne EM, et al. **Br Vet J** 1996 Sep;152(5):537–49. Comment in: Br Vet J 1996 Sep;152(5):497–9.

Diagnostic aids and prognostic indicators for chronic grass sickness: possibilities for the future [editorial; comment] Murphy D, et al. **Br Vet J** 1996 Sep;152(5):497–9. Comment on: Br Vet J 1996 Sep;152(5):537–49.

Mucoid enteropathy in UK rabbits: dysautonomia confirmed [letter] Whitwell K, et al. **Vet Rec** 1996 Sep 28; 139(13):323–3

VIROLOGY

Epstein–Barr virus—associated acute autonomic neuropathy. Bennett JL, et al. **Ann Neurol** 1996 Sep;40(3):453–5

AUTONOMIC PATHWAYS

Metastasis of rectal cancer to lymph nodes and tissues around the autonomic nerves spared for urinary and sexual function. Yamakoshi H, et al. **Dis Colon Rectum** 1997 Sep; 40(9):1079–84

ANATOMY & HISTOLOGY

Microtopography of the autonomic nerves in the rat knee: a fluorescence microscopic study. Schwab W, et al. **Anat Rec** 1997 Jan;247(1):109–18

Connections between the vestibular nuclei and brain stem regions that mediate autonomic function in the rat. Porter JD, et al. **J Vestib Res** 1997 Jan–Feb;7(1):63–76

Distribution and ultrastructure of the autonomic nerves in the mouse pancreas. Ushiki T, et al. **Microsc Res Tech** 1997 Jun 1–15;37(5–6):399–406

CHEMISTRY

Natriuretic peptide immunoreactivity in nerve structures and Purkinje fibres of human, pig and sheep hearts. Hansson M, et al. **Histochem J** 1997 Apr;29(4):329–36

CYTOLOGY

Cells of origin of spinal projections from the paraventricular nucleus (PVN) of the hypothalamus in the chicken. Naito J, et al. **J Auton Nerv Syst** 1996 Dec 14;61(3):321–3

DRUG EFFECTS

C-peptide improves autonomic nerve function in IDDM patients. Johansson BL, et al. **Diabetologia** 1996 Jun; 39(6):687–95

EMBRYOLOGY

Neurohistochemical evaluation of adrenergic innervation in fetal development of the white rat. Lotocki W, et al. **Rocz Akad Med Bialymst** 1996;41(2):390–6

ENZYMOLOGY

Nitric oxide synthase in the autonomic and sensory ganglia innervating the submandibular salivary gland. Soinila S, et al. **Microsc Res Tech** 1996 Sep 1;35(1):32–43

PHYSIOLOGY

Limited excitatory local effector function of gastric vagal afferent intraganglionic terminals in rats. Zheng H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G661–9

Contribution of the ascending cholinergic pathways in the production of ultrasonic vocalization in the rat. Brudzynski SM, et al. **Behav Brain Res** 1996 Oct;80(1–2):145–52

Vip-induced relaxation of small arteries of the rainbow trout, Oncorhynchus mykiss, involves prostaglandin synthesis but not nitric oxide. Kågström J, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1–2):68–76

Sympathetic nerve trajectories to rat orbital targets: role of connective tissue pathways. Smith PG, et al. **J Comp Neurol** 1996 Jan 29;365(1):69–78

Nitric oxide and fibroblast growth factor in autonomic nervous system: short- and long-term messengers in autonomic pathway and target-organ control. Blottner D. **Prog Neurobiol** 1997 Mar;51(4):423–38 (225 ref.)

ULTRASTRUCTURE

Distribution and ultrastructure of the autonomic nerves in the mouse pancreas. Ushiki T, et al. **Microsc Res Tech** 1997 Jun 1–15;37(5–6):399–406

AUTONOMOUS REPLICATION see **DNA REPLICATION**

AUTOPHAGOCYTOSIS

Evidence for a dual control of macroautophagic sequestration and intracellular trafficking of N-linked glycoproteins by the trimeric G(i3) protein in HT-29 cells. Ogier-Denis E, et al. **Biochem Biophys Res Commun** 1997 Jun 9; 235(1):166–70

Analyses of APG13 gene involved in autophagy in yeast, Saccharomyces cerevisiae. Funakoshi T, et al. **Gene** 1997 Jun 19;192(2):207–13

Apg1p, a novel protein kinase required for the autophagic process in Saccharomyces cerevisiae. Matsuura A, et al. **Gene** 1997 Jun 19;192(2):245–50

The effect of age on formation and elimination of autophagic vacuoles in mouse hepatocytes. Terman A. **Gerontology** 1995;41 Suppl 2:319–26

Apoptosis and autophagy in nigral neurons of patients with Parkinson's disease. Anglade P, et al. **Histol Histopathol** 1997 Jan;12(1):25–31

AUT3, a serine/threonine kinase gene, is essential for autophagocytosis in Saccharomyces cerevisiae. Straub M, et al. **J Bacteriol** 1997 Jun;179(12):3875–83

Guanine nucleotide exchange on heterotrimeric Gi3 protein controls autophagic sequestration in HT-29 cells. Ogier-Denis E, et al. **J Biol Chem** 1996 Nov 8; 271(45):28593–600

A multispecificity syntaxin homologue, Vam3p, essential for autophagic and biosynthetic protein transport to the vacuole. Darsow T, et al. **J Cell Biol** 1997 Aug 11; 138(3):517–29

The autophagic and endocytic pathways converge at the nascent autophagic vacuoles. Liou W, et al. **J Cell Biol** 1997 Jan 13;136(1):61–70

Cytoplasm-to-vacuole targeting and autophagy employ the same machinery to deliver proteins to the yeast vacuole. Scott SV, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12304–8

Autophagy. Mortimore GE, et al. **Subcell Biochem** 1996; 27:93–135 (133 ref.)

[Autophagy in yeast, bulk protein degradation in the vacuole] Ohsumi Y. **Seikagaku** 1997 Jan;69(1):39–44 (15 ref.) **(Jpn)**

DRUG EFFECTS

Inhibition of peroxisomal degradation by 3-methyladenine (3MA) in primary cultures of rat hepatocytes. Kondo K, et al. **Anat Rec** 1997 Apr;247(4):449–54

The phosphatidylinositol 3-kinase inhibitors wortmannin and LY294002 inhibit autophagy in isolated rat hepatocytes. Blommaart EF, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):240–6

Time course of vinblastine-induced autophagocytosis and changes in the endoplasmic reticulum in murine pancreatic acinar cells: a morphometric and biochemical study. Réz G, et al. **Eur J Cell Biol** 1996 Dec;71(4):341–50

Inhibition of autophagy of fetal rabbit gonoducts by puromycin, tunicamycin and chloroquin in organ culture. Djehiche B, et al. **Tissue Cell** 1996 Feb;28(1):115–21

GENETICS

AUT1, a gene essential for autophagocytosis in the yeast Saccharomyces cerevisiae. Schlumpberger M, et al. **J Bacteriol** 1997 Feb;179(4):1068–76

PHYSIOLOGY

Mechanism of autophagy in permeabilized hepatocytes: evidence for regulation by GTP binding proteins. Kadowaki M, et al. **Adv Exp Med Biol** 1996;389:113–9 (17 ref.)

Structural aspects of autophagy. Seglen PO, et al. **Adv Exp Med Biol** 1996;389:103–11 (19 ref.)

Signal transduction pathways in macroautophagy. Codogno P, et al. **Cell Signal** 1997 Feb;9(2):125–30 (102 ref.)

Evidence for fusion between multilamellar endosomes and autophagosomes in HeLa cells. Lucocq J, et al. **Eur J Cell Biol** 1997 Apr;72(4):307–13

Autophagic proteolysis: control and specificity. Blommaart EF, et al. **Histochem J** 1997 May;29(5):365–85 (187 ref.)

Acidification of vacuoles is required for autophagic degradation in the yeast, Saccharomyces cerevisiae. Nakamura N, et al. **J Biochem (Tokyo)** 1997 Feb; 121(2):338–44

Glucose-induced microautophagy in Pichia pastoris requires the alpha-subunit of phosphofructokinase. Yuan W, et al. **J Cell Sci** 1997 Aug;110 (Pt 16):1935–45

AUTOPROTHROMBIN C see **FACTOR XA**

AUTOPROTHROMBIN II see **FACTOR IX**

AUTOPROTHROMBIN III see **FACTOR X**

AUTOPSY

Role of disease in initiating the crashes of fatally injured drivers. Sjögren H, et al. **Accid Anal Prev** 1996 May; 28(3):307–14

The autopsy. Simple thoughts about the public needs and how to address them. McManus BM, et al. **Am J Clin Pathol** 1996 Oct;106(4 Suppl 1):S11–4 (9 ref.)

The definition of "sudden" in SIDS [letter] Sawaguchi T, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):269

The autopsy: still important in cardiac surgery. Zehr KJ, et al. **Ann Thorac Surg** 1997 Aug;64(2):380–3

The moribund autopsy. DNR or CPR? [editorial; comment] Dalen JE. **Arch Intern Med** 1997 Aug 11–25;157(15):1633 . Comment on: Arch Intern Med 1997 Aug 11–25;157(15):1645.

Case of the month. Hanzlick R. **Arch Intern Med** 1997 Aug 11–25;157(15):1645

Case of the month. Autopsy Committee of the College of American Pathologists. Hanzlick R. **Arch Intern Med** 1997 Sep 8;157(16):1798

Autopsy risk and acquisition of HIV infection [letter] Branton PA. **Arch Pathol Lab Med** 1997 Sep;121(9):921

Obtaining permission for postmortem examination [letter] Hanzlick R. **Arch Pathol Lab Med** 1997 Jan;121(1):9

Rapid brain autopsy. The Joseph and Kathleen Bryan Alzheimer's Disease Research Center experience. Hulette CM, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):615–8

Autopsy risk and acquisition of human immunodeficiency virus infection: a case report and reappraisal. Johnson MD, et al. **Arch Pathol Lab Med** 1997 Jan;121(1):64–6

The autopsy conference [letter] Rosenblum WI. **Arch Pathol Lab Med** 1997 Apr;121(4):353–4

Myths, misconceptions and the autopsy. Byard RW, et al. **Aust Fam Physician** 1997 May;26(5):555–7

The contribution of the pathologist after a perinatal loss: what we should be telling the parents. Khong TY. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):15–17

Certification of cause of death in patients dying soon after proximal femoral fracture. Postmortem examination should always be carried out for deaths due to trauma [letter; comment] Roberts IS, et al. **BMJ** 1996 Oct 5;313(7061):879; discussion 879–80. Comment on: BMJ 1996 Jun 15;312(7045):1515.

Requesting necropsies [editorial] Turner J, et al. **BMJ** 1997 May 24;314(7093):1499–500

Advances in post mortem molecular neurochemistry and neuropathology: examples from schizophrenia research. Harrison PJ. **Br Med Bull** 1996 Jul;52(3):527–38 (62 ref.)

Usefulness of the 12-lead electrocardiogram in detection of myocardial infarction: electrocardiographic-anatomic correlations—part I. Parker AB 3rd, et al. **Clin Cardiol** 1996 Jan;19(1):55–61 (42 ref.)

Bone-dust in autopsies: reduction of spreading. Kernbach-Wighton G, et al. **Forensic Sci Int** 1996 Dec 2;83(2):95–103

Homicidal hanging masquerading as suicide. Leth P, et al. **Forensic Sci Int** 1997 Feb 7;85(1):65–71

Forensic analysis of 10 barbiturates in human biological samples using a new reversed-phase chromatographic column packed with 2-micrometre porous microspherical silica-gel. Tanaka E, et al. **Forensic Sci Int** 1997 Feb 7; 85(1):73–82

Prospective study of the value of necropsy examination in early death after cardiac surgery. Lee AH, et al. **Heart** 1997 Jul;78(1):34–8

Internet autopsy database [editorial; comment] Berman JJ, et al. **Hum Pathol** 1997 Apr;28(4):393–4. Comment on: Hum Pathol 1996 Oct;27(10):1003–4.

Three sudden deaths in men associated with undiagnosed chronic thyroiditis. Edston E. **Int J Legal Med** 1996; 109(2):94–7

Serious complications from active compression-decompression cardiopulmonary resuscitation. Rabl W, et al. **Int J Legal Med** 1996; 109(2):84–9

An exploratory study of the pattern of consent for autopsy in a regional hospital setting. Kaar TK, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):7–9

Two-dimensional echocardiographic calculation of left ventricular mass as recommended by the American Society of Echocardiography: correlation with autopsy and M-mode echocardiography. Park SH, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):119–28

Attitudes of medical students to necropsy. Botega NJ, et al. **J Clin Pathol** 1997 Jan;50(1):64–6

Factors predicting cases with unexpected clinical findings at necropsy. Robinson IA, et al. **J Clin Pathol** 1996 Nov; 49(11):909–12

Practice guidelines for necropsy: time for action [editorial] Start RD. **J Clin Pathol** 1996 Nov;49(11):867–8

An assessment of DNA contamination risks in New York City Medical Examiner facilities. Toledano T, et al. **J Forensic Sci** 1997 Jul;42(4):721–4

Clinical overdiagnosis of vascular dementia versus necropsy confirmed series [letter; comment] Roses AD, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):677–8. Comment on: J Neurol Neurosurg Psychiatry 1996 Jun;60(6):699–700.

Cerebral oximetry is not foolproof [letter; comment] Nemoto EM. **J Neurosurg Anesthesiol** 1997 Apr;9(2):194–5. Comment on: J Neurosurg Anesthesiol 1996 Jul;8(3):189–93.

Autopsy of a cadaver containing strontium-89-chloride. Schraml FV, et al. **J Nucl Med** 1997 Mar;38(3):380–2

Intercontinental postmortem studies using interactive television. Brebner EM, et al. **J Telemed Telecare** 1997; 3(1):48–52

A pilot study in medical education using interactive television. Brebner EM, et al. **J Telemed Telecare** 1997;3 Suppl 1:10–2

AUTOPSY

Perinatal necropsy by magnetic resonance imaging [letter; comment] Niermeijer MF. **Lancet** 1997 Jan 4;349(9044):56 . Comment on: Lancet 1996 Oct 26;348(9035):1139–41.

Perinatal necropsy by magnetic resonance imaging [letter; comment] Rushton DI. **Lancet** 1997 Jan 4;349(9044):56. Comment on: Lancet 1996 Oct 26;348(9035):1139–41.

The obscure autopsy and neuroleptic malignant syndrome. Lowe JW. **Med Sci Law** 1997 Jan;37(1):79–81

Type of certifier and autopsy rates for sudden infant death syndrome--Washington, 1980–1994. **MMWR Morb Mortal Wkly Rep** 1996 Oct 11;45(40):863–6

Comparison of changing autopsy trends in the Bronx population with acquired immunodeficiency syndrome. Concepcion L, et al. **Mod Pathol** 1996 Oct;9(10):1001–6

Aspartate, glutamate, glutamine, glycine and gamma-aminobutyric acid in human bioptic neocortical areas: comparison to autoptic tissue. Knörle R, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):169–72

Post-mortem examinations and perinatal deaths [letter; comment] Altshuler G. **Paediatr Perinat Epidemiol** 1996 Jul;10(3):363–4. Comment on: Paediatr Perinat Epidemiol 1996 Jan;10(1):97–105; discussion 106–9.

Maintaining patient confidentiality in the public domain Internet Autopsy Database (IAD). Berman JJ, et al. **Proc AMIA Annu Fall Symp** 1996;:328–32

Is skull sawing by autopsy assistants overlooked as a cause of vibration-induced white fingers? Torén K, et al. **Scand J Work Environ Health** 1996 Jun;22(3):227–9

The autopsy. Teo CE. **Singapore Med J** 1997 Feb;38(2):71–5

Dilemmas and solutions for the pathologist and clinician encountering religious views of the autopsy [see comments] Davis GJ, et al. **South Med J** 1996 Nov;89(11):1041–4 (29 ref.). Comment in: South Med J 1996 Nov;89(11):1125–6.

Autopsy consent and family resistance: the role of the clinician [editorial; comment] Hill RB. **South Med J** 1996 Nov;89(11):1125–6. Comment on: South Med J 1996 Nov;89(11):1041–4.

Postmortem perinatal examination: the role of magnetic resonance imaging [editorial] Brookes JS, et al. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):145–7

[Forensic autopsies performed because of suspected occupational disease during the period 1987–1991--counties of Funen and Southern Jutland. Guidelines for physicians' notifications and a review of autopsy practice during 5 years] Molsted K. **Ugeskr Laeger** 1997 Apr 28;159(18):2711–5 (Eng. Abstr.) **(Dan)**

[Medical function in case of death: a final service to the patient and a key factor in legal safeguard] Zollinger U, et al. **Ther Umsch** 1997 May;54(5):218–24 (Eng. Abstr.) **(Ger)**

[Diagnostic possibilities and limitations of the necropsy examination on cadavers exhumed because of sudden cardiac death] Bacci M, et al. **Pathologica** 1996 Feb; 88(1):25–8 (Eng. Abstr.) **(Ita)**

[Usefulness of autopsy in clinical training in internal medicine: a report on "Survey on Feedback of Autopsy Findings to Clinical Training in Internal Medicine"] Fukui T, et al. **Nippon Naika Gakkai Zasshi** 1996 Dec 10; 85(12):2096–105 **(Jpn)**

[The value of autopsy in current health care. An analysis of autopsies performed during one year at the Regionsykehuset in Trondheim] Midelfart J, et al. **Tidsskr Nor Laegeforen** 1997 May 10;117(12):1784–5 (Eng. Abstr.) **(Nor)**

[Forensic autopsy after possible medical malpractice. A 3-year material from the Institute of Forensic Medicine in Oslo, 1993–95] Rognum TO, et al. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2969–73 (Eng. Abstr.) **(Nor)**

[The evaluation of autopsy in the pediatric intensive unit] Castellanos Ortega A, et al. **An Esp Pediatr** 1997 Mar; 46(3):224–8 (Eng. Abstr.) **(Spa)**

ECONOMICS

Education ... one doctor's technological advance is another's lost educational opportunity [news] **Hosp Health Netw** 1997 Jan 5;71(1):12

A national survey of autopsy cost and workload. Jason DR, et al. **J Forensic Sci** 1997 Mar;42(2):270–5

HISTORY

The papal contribution to the development of modern medicine. Weisz GM. **Aust N Z J Surg** 1997 Jul;67(7):472–5

The importance of the autopsy in emerging and reemerging infectious diseases [editorial; comment] Schwartz DA, et al. **Clin Infect Dis** 1996 Aug;23(2):248–54. Comment on: Clin Infect Dis 1996 Aug;23(2):241–7.

Origins of .... the postmortem examination in diagnosis. Dada MA, et al. **J Clin Pathol** 1996 Dec;49(12):965–6

[Origin and development of autopsy in Württemberg reflected by contemporary sources] Gross D. **Sudhoffs Arch Z Wissenschaftsgesch** 1997;81(1):39–61 (Eng. Abstr.) **(Ger)**

[Pediatric autopsies in the historical archives in Bologna (1838–1966)] Scarani P, et al. **Minerva Pediatr** 1995 Dec; 47(12):549–53 **(Ita)**

INSTRUMENTATION

Postmortem coronary subtraction angiography. Prahlow JA, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):225–30

Needle autopsy. Marsden PD. **Rev Soc Bras Med Trop** 1997 Mar–Apr;30(2):161–2

[Digital handwriting recognition in data collection for autopsy reports with an Apple Newton] Schweitzer W, et al. **Patholoqe** 1996 Sep;17(5):399–402 **(Ger)**

LEGISLATION & JURISPRUDENCE

Endoscopy is not autopsy [letter] Taff ML, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):86–8

The politics of death investigation [letter] Taff ML, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):88

French doctors miss out on postmortem examinations [news] Dorzynski A. **BMJ** 1997 Aug 30;315(7107):503

Forensic autopsies from 1984 to 1993 in Vienna, Austria. Klupp N, et al. **J Forensic Sci** 1997 Jul;42(4):675–7 –editorial–00 **Med Leg J** 1996;64 (Pt 1):3–4

[Collecting insects, spiders and crustaceans for criminal forensic study] Benecke M. **Arch Kriminol** 1997 May–Jun; 199(5–6):167–76 (40 ref.) (Eng. Abstr.) **(Ger)**

[Errors in autopsy in Germany. Results of a multicenter study (I)] Brinkmann B, et al. **Arch Kriminol** 1997 Jan–Feb; 199(1–2):1–12 **(Ger)**

[Errors in autopsy in Germany. Results of a multicenter study (II)] Brinkmann B. **Arch Kriminol** 1997 Mar–Apr; 199(3–4):65–74 (Eng. Abstr.) **(Ger)**

[Homicides without clues in children] Du Chesne A, et al. **Arch Kriminol** 1997 Jan–Feb;199(1–2):21–6 (Eng. Abstr.) **(Ger)**

[Methods of suicide in an autopsy sample of the Institute of Forensic Medicine of the Hannover Medical School] Fieguth A, et al. **Arch Kriminol** 1997 Jan–Feb; 199(1–2):13–20 (Eng. Abstr.) **(Ger)**

[Legal and actual problems in cadaver examination and autopsy (section 87 StPO) (I)] Geerds F. **Arch Kriminol** 1997 Jan–Feb;199(1–2):41–52 (63 ref.) **(Ger)**

[Legal and actual problems of autopsy and cadaver examination (section 87 StPO) (II)] Geerds F. **Arch Kriminol** 1997 Mar–Apr;199(3–4):75–87 (123 ref.) **(Ger)**

[Identification of unknown cadavers in forensic medicine practice] Riepert T, et al. **Arch Kriminol** 1996 Jul–Aug; 198(1–2):23–30 (Eng. Abstr.) **(Ger)**

[Accidental coincidence in cause of death?] Kleiber M, et al. **Versicherungsmedizin** 1996 Feb 1;48(1):8–10 (Eng. Abstr.) **(Ger)**

[Autopsy (letter)] Karasszon D. **Orv Hetil** 1997 Sep 7; 138(36):2264 **(Hun)**

[The regulations for the forensic medical expertise of a corpse. Appendix 1 to the order of the Ministry of Public Health of the Russian Federation of 10 December 1996 No. 407] **Sud Med Ekspert** 1997 Jul–Sep;40(3):44–53 **(Rus)**

["Perform autopsies, but avoid to confirm the cause of death!" What is the point of the new autopsy law?] Seidal T. **Lakartidningen** 1996 Nov 27;93(48):4379–80 **(Swe)**

METHODS

The autopsy as a surgical specimen [letter; comment] Adickes ED, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S83–4 . Comment on: Am J Clin Pathol 1996 Oct;106(4 Suppl 1):S15–7.

The value of posthumous analysis [letter; comment] Berthrong M. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S82. Comment on: Am J Clin Pathol 1996 Oct;106(4 Suppl 1):S15–7.

Alternative to the conventional autopsy [letter; comment] Frankel K. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S83 . Comment on: Am J Clin Pathol 1996 Oct;106(4 Suppl 1):S15–7.

The posthumous analysis (PHA). An alternative to the conventional autopsy [see comments] Rosai J. **Am J Clin Pathol** 1996 Oct;106(4 Suppl 1):S15–7. Comment in: Am J Clin Pathol 1997 Apr;107(4 Suppl 1):S82. Comment in: Am J Clin Pathol 1997 Apr;107(4 Suppl 1):S83. Comment in: Am J Clin Pathol 1997 Apr;107(4 Suppl 1):S83–4.

Posthumous analysis in Italy [letter; comment] Scarani P. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S83. Comment on: Am J Clin Pathol 1996 Oct;106(4 Suppl 1):S15–7.

A case for selective postmortem analysis [letter; comment] Seshi B. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S82. Comment on: Am J Clin Pathol 1996 Oct;106(4 Suppl 1):S15–7.

Author's reply [letter] Avrahami R, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):173

Oral autopsy of unidentified burned human remains. A new procedure. Fereira J, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):306–11 (24 ref.)

Postmortem cranial MRI and autopsy correlation in suspected child abuse. Hart BL, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):217–24

Gastric contamination of postmortem blood samples during blind–stick sample collection. Logan BK, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):109–11

Ambulatory monitoring devices and the forensic autopsy. Weitzman JB, et al. **Am J Forensic Med Pathol** 1996 Sep; 17(3):210–6

Practice guidelines for autopsy pathology: the perinatal and pediatric autopsy. Autopsy Committee of the College of American Pathologists. Bove KE. **Arch Pathol Lab Med** 1997 Apr;121(4):368–76

The quantitative alteration of the DNA content in strangulation marks is an artefact. Grellner W, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):15–20

Detection of ruptured cerebral bridging veins at autopsy. Maxeiner H. **Forensic Sci Int** 1997 Sep 19;89(1–2):103–10

A modified method for examining the cardiac conduction system. Song Y, et al. **Forensic Sci Int** 1997 Apr 18; 86(1–2):135–8

Cranial fractures and direction of fire in low velocity gunshots. Betz P, et al. **Int J Legal Med** 1996;109(2):58–61

Evaluation of a solid-phase extraction procedure for the simultaneous determination of morphine, 6-monoacetylmorphine, codeine and dihydrocodeine in plasma and whole blood by GC/MS. Geier A, et al. **Int J Legal Med** 1996;109(2):80–3

Postmortem changes in serum noradrenaline and adrenaline concentrations in rabbit and human cadavers. Hirvonen J, et al. **Int J Legal Med** 1996;109(3):143–6

The utility of volatile hydrocarbon analysis in cases of carbon monoxide poisoning. Morinaga M, et al. **Int J Legal Med** 1996;109(2):75–9

Postmortem distribution pattern of morphine and morphine glucuronides in heroin overdose [see comments] Skopp G, et al. **Int J Legal Med** 1996;109(3):118–24. Comment in: Int J Legal Med 1997;110(2):114–6.

Solvent-free sample preparation by headspace solid-phase microextraction applied to the tracing of n-butyl nitrite abuse. Tytgat J, et al. **Int J Legal Med** 1996;109(3):150–4

Simple method for necropsy dissection of the abdominal organs after abdominal surgery. Culora GA, et al. **J Clin Pathol** 1996 Sep;49(9):776–9

The use of histopathology in the practice of necropsy. Williams JO, et al. **J Clin Pathol** 1997 Aug;50(8):695–8

The effect of extraction methods. The kind of organ samples and the examination delay on the DNA yields and typing. Atmadja DS, et al. **Kobe J Med Sci** 1995 Dec;41(6):197–211

Perinatal necropsy by magnetic resonance imaging [letter; comment] Berry PJ, et al. **Lancet** 1997 Jan 4;349(9044):55; discussion 55–6. Comment on: Lancet 1996 Oct 26;348(9035):1139–41.

Non-invasive perinatal necropsy by magnetic resonance imaging [see comments] Brookes JA, et al. **Lancet** 1996 Oct 26;348(9035):1139–41. Comment in: Lancet 1997 Jan 4;349(9044):55; discussion 55–6. Comment in: Lancet 1997 Jan 4;349(9044):56.

Adipocere--problems in estimating the length of time since death. Rothschild MA, et al. **Med Law** 1996;15(2):329–35

A post-mortem examination was NOT done through a large autopsy incision. Lowe JW. **Med Sci Law** 1997 Jan;37(1):78

Correspondence re: Huston BM, Malouf NN, Azar HA. Percutaneous needle autopsy sampling. Mod Pathol 1996;9:1101–7 [letter; comment] Mensch AH. **Mod Pathol** 1997 Apr;10(4):394. Comment on: Mod Pathol 1996 Dec;9(12):1101–7.

The 'high-risk' neuropathological autopsy in AIDS and Creutzfeldt-Jakob disease: principles and practice. Ironside JW, et al. **Neuropathol Appl Neurobiol** 1996 Oct; 22(5):388–93 (31 ref.)

Necroscopic histology and the cause of death [letter; comment] Benbow EW. **Thorax** 1997 Apr;52(4):397. Comment on: Thorax 1996 Sep;51(9):924–8.

[The procedural characteristics in identifying the parts of a dismembered human corpse and meat products] Breskun NB, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):48 **(Rus)**

[The forensic medical possibilities for reconstructing the circumstances of a hanging] Molin IuA. **Sud Med Ekspert** 1996 Jul–Sep;39(3):46–8 (Eng. Abstr.) **(Rus)**

[An analysis of the errors in determining the time of death by cadaveric changes during the performance of the initial inquiry activities] Pashinian GA, et al. **Sud Med Ekspert** 1997 Apr–Jun;40(2):28–32 (Eng. Abstr.) **(Rus)**

[The verification of the conclusions of an expert (expertise on corpses)] Zamiralov VS. **Sud Med Ekspert** 1997 Jan–Mar;40(1):45–6 **(Rus)**

[Ultrasonographic autopsy] Fariñas González J. **Rev Clin Esp** 1996 Jan;196(1):49–50 **(Spa)**

PSYCHOLOGY

Medical students' attitudes toward the autopsy. Conran P, et al. **Acad Med** 1996 Jun;71(6):681–3

STANDARDS

Postmortem examinations in a statewide audit of neonatal intensive care unit admissions in Australia in 1992. New South Wales Neonatal Intensive Care Unit Study Group. Sutton L, et al. **Acta Paediatr** 1996 Jul;85(7):865–9

The value of posthumous analysis [letter; comment] Berthrong M. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S82. Comment on: Am J Clin Pathol 1996 Oct;106(4 Suppl 1):S15–7.

Enhancing autopsy performance and reporting [letter; comment] Rosenblum WI. **Arch Pathol Lab Med** 1996 Sep; 120(9):798–9. Comment on: Arch Pathol Lab Med 1996 Mar;120(3):249–53.

The quantitative alteration of the DNA content in strangulation marks is an artefact. Grellner W, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):15–20

The coroner's necropsy--an epidemiological treasure trove

[editorial; comment] Chen K. **J Clin Pathol** 1996 Sep; 49(9):698–9. Comment on: J Clin Pathol 1996 Sep;49(9):737–40.
A survey of general practitioners' views on autopsy reports. Karunaratne S, et al. **J Clin Pathol** 1997 Jul;50(7):548–52
The coroner's necropsy in sudden death: an under–used source of epidemiological information [see comments] O'Sullivan JP. **J Clin Pathol** 1996 Sep;49(9):737–40. Comment in: J Clin Pathol 1996 Sep;49(9):698–9.
Audit of necropsy reporting in East Anglia. Williams JO, et al. **J Clin Pathol** 1997 Aug;50(8):691–4
[Autopsy. A method for evaluating the quality of care (editorial)] Potet F. **Ann Pathol** 1996 Dec;16(6):409–13 **(Fre)**
[Guidelines for autopsy findings and handling of tissues of subjects with probable or certain Creutzfeldt–Jacob disease or other prion diseases. Italian Society of Pathologic Anatomy and Diagnostic Cytopathology] **Pathologica** 1996 Aug;88(4):328–30 **(Ita)**

STATISTICS & NUMERICAL DATA

Determinants of the autopsy decision: a statistical analysis. Nemetz PN, et al. **Am J Clin Pathol** 1997 Aug; 108(2):175–83
Autopsy cases of sudden unexpected infant deaths examined at the Tokyo medical examiner's office, 1964–1993. Funayama M, et al. **Am J Forensic Med Pathol** 1996 Mar; 17(1):32–7
Perioperative deaths: a comparative study of coroner's autopsies between the periods of 1989–1991 and 1992–1994. Lau G. **Ann Acad Med Singapore** 1996 Jul;25(4):509–15
Forensic pathology in northern Norway. Requested medico–legal autopsies in the counties of Finnmark and Troms 1973–1992. Nordrum I, et al. **APMIS** 1996 Jun; 104(6):465–74
Does it matter who requests necropsies? Prospective study of effect of clinical audit on rate of requests. Kamal IS, et al. **BMJ** 1997 Jun 14;314(7096):1729
Increasing autopsy rates at a public hospital. Souza VL, et al. **J Gen Intern Med** 1997 May;12(5):315–7
Declining autopsy rate in Sweden: a study of causes and consequences in Malmö, Sweden. Lindström P, et al. **J Intern Med** 1997 Aug;242(2):157–65
Determining transition probabilities from mortality rates and autopsy findings. Black WC, et al. **Med Decis Making** 1997 Jan–Mar;17(1):87–93
A prospective study of coroner's autopsies in University College Hospital, Ibadan, Nigeria. Amakiri CN, et al. **Med Sci Law** 1997 Jan;37(1):69–75
A review of perinatal autopsy rates worldwide, 1960s to 1990s [see comments] Khong TY. **Paediatr Perinat Epidemiol** 1996 Jan;10(1):97–105; discussion 106–9 (67 ref.). Comment in: Paediatr Perinat Epidemiol 1996 Jul;10(3):363–4.

VETERINARY

Forensic (medico–legal) necropsy of wildlife. Wobeser G. **J Wildl Dis** 1996 Apr;32(2):240–9 (9 ref.)

AUTORADIOGRAPHY

Quantitative autoradiography using selective radioligands for central and peripheral–type benzodiazepine receptors in experimental Wernicke's encephalopathy: implications for positron emission tomography imaging. Leong DK, et al. **Alcohol Clin Exp Res** 1996 May;20(3):601–5
Light microscope autoradiography of peripheral dopamine receptor subtypes. Amenta F. **Clin Exp Hypertens** 1997 Jan–Feb;19(1–2):27–41 (30 ref.)
A technique for identification of cellular proteins by western immunoblotting and immunoautoradiography of 2–D PAGE. Hailat NQ, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):240–4
On the terminology of radioautography vs. autoradiography [letter] Nagata T. **J Histochem Cytochem** 1996 Oct; 44(10):1209
Autoradiography vs radioautography [letter] Stumpf WE. **J Histochem Cytochem** 1997 Mar;45(3):471
Autoradiographic distribution and physiological regulation of 2–[125I]iodomelatonin binding in rat epididymis. Shiu SY, et al. **Life Sci** 1996;59(14):1165–74
Autoradiographic visualization in brain of receptor–G protein coupling using [35S]GTP gamma S binding. Sim LJ, et al. **Methods Mol Biol** 1997;83:117–32 (40 ref.)
Autoradiographic localization of the putative D4 dopamine receptor in rat brain. Defagot MC, et al. **Neurochem Res** 1997 Apr;22(4):401–7
Autoradiographic approaches to studying hallucinogens or other drugs. Appel NM. **NIDA Res Monogr** 1994; 146:214–40 (98 ref.)
The use of electronic autoradiography in radiopharmacy. Decristoforo C, et al. **Nucl Med Biol** 1997 May;24(4):361–5
Radiolabelled adult Haemonchus contortus obtained from eggs voided in the faeces of a sheep injected with 59Fe. Vanwyk JA, et al. **Onderstepoort J Vet Res** 1996 Sep; 63(3):263–4
Autoradiographic localization of cholecystokinin (CCK) receptor expression during the development of azaserine–induced rat pancreatic carcinoma. Tsuei BJ, et al. **Pancreas** 1996 Nov;13(4):401–6
Glutamate and benzodiazepine receptor autoradiography in rat brain after repetition of alcohol dependence. Ulrichsen J, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):31–41
Selective labeling of [3H]2–deoxy–D–glucose in the snake trigeminal system: basal and infrared–stimulated conditions. Jiang PJ, et al. **Somatosens Mot Res** 1995;12(3–4):299–307
[Reproducibility of regional cerebral blood flow measurement at rest with autoradiography method using 123I–IMP and SPECT] Saito K, et al. **Kaku Igaku** 1997 May;34(5):343–8 (Eng. Abstr.) **(Jpn)**
[In vitro and in vivo techniques for the location of the receptors in human brain: methodological basis and general applications] Pazos A. **Rev Neurol** 1997 Jul;25 Suppl 1:S23–7 (16 ref.) **(Spa)**

INSTRUMENTATION

Three–dimensional metabolic and hemodynamic imaging of the normal and ischemic rat brain. Ginsberg MD, et al. **Acta Neurochir Suppl (Wien)** 1996;66:44–9
Measurement of cell adhesion and migration using phosphor–screen autoradiography. Dalton BA, et al. **Biotechniques** 1996 Aug;21(2):298–303

METHODS

Three–dimensional autoradiographic image–processing strategies for the study of brain injury and plasticity. Ginsberg MD, et al. **Adv Neurol** 1997;73:239–50 (24 ref.)
Calcium 45 autoradiography and dual–isotope single–photon emission CT in a canine model of cerebral ischemia and middle cerebral artery occlusion. Purdy PD, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1161–70
Mutual contribution by "track" microradioautography method (MRA) and secondary ion mass spectrometry (SIMS) microscopy: prospects in technetium dosimetry at–the cellular level. Fourré C, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 May;42(3):385–93
Accurate and sensitive quantitation of N7–methyldeoxyguanosine–3'–monophosphate by 32P–postlabeling and storage–phosphor imaging. Haque K, et al. **Chem Res Toxicol** 1997 Jun;10(6):660–6
Comparative disposition of acrylonitrile and methacrylonitrile: quantitative whole–body autoradiographic studies in rats. Ahmed AE, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):49–59
The difference of means of two indirect unpaired groups in receptor autoradiography. Nishimura Y, et al. **J Biopharm Stat** 1997 Jul;7(3):441–52
Corneal lens secretion in newly emerged Drosophila melanogaster examined by electron microscope autoradiography. Yoon CS, et al. **J Electron Microsc (Tokyo)** 1997;46(3):243–6
Computer–assisted image–averaging strategies for the topographic analysis of in situ hybridization autoradiographs. Ginsberg MD, et al. **J Neurosci Methods** 1996 Oct;68(2):225–33
A new method of preparing human whole brain sections for in vitro receptor autoradiography. Miller JK, et al. **J Neurosci Methods** 1997 Apr 4;72(2):147–51
Validation of procedures for quantitative whole–body autoradiography using digital imaging. Zane PA, et al. **J Pharm Sci** 1997 Jun;86(6):733–8
alpha–MSH receptor autoradiography on mouse and human melanoma tissue sections and biopsies. Bagutti C, et al. **J Recept Signal Transduct Res** 1995 Jan–Mar; 15(1–4):427–42
In vitro macro– and microautoradiographic localization of V1 and V2 receptors in the rat kidney using OPC–21268 and OPC–31260. Mimura Y, et al. **Nephron** 1997; 76(3):331–6
Visualization and characterization of CCK receptors in exocrine pancreas of rat with storage phosphor autoradiography. Tang C, et al. **Pancreas** 1996 Oct; 13(3):311–5
Region–specific tritium enrichment, and not differential beta–absorption, is the major cause of 'quenching' in film autoradiography. McEachron DL, et al. **Phys Med Biol** 1997 Jun;42(6):1121–32

AUTORECEPTORS

AGONISTS

3–[[(4–Aryl–1–piperazinyl)alkyl]cyclohexyl]–1H–indoles as dopamine D2 partial agonists and autoreceptor agonists. Wustrow DJ, et al. **J Med Chem** 1997 Jan 17;40(2):250–9
Electrophysiological pharmacology of the autoreceptor–mediated responses of dopaminergic cells to antiparkinsonian drugs. Mercuri NB, et al. **Trends Pharmacol Sci** 1997 Jul;18(7):232–5 (34 ref.)

ANTAGONISTS & INHIBITORS

Autoreceptor antagonists enhance the effect of the reuptake inhibitor citalopram on extracellular 5–HT: this effect persists after repeated citalopram treatment. Gundlah C, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):475–82

CLASSIFICATION

Subtype determination of soma–dendritic alpha2–autoreceptors in slices of rat locus coeruleus. Nörenberg W, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):159–65
Presynaptic alpha 2–autoreceptors in mouse heart atria: evidence for the alpha 2D subtype. Wahl CA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep; 354(3):253–61

DRUG EFFECTS

Functional characterization of 5–HT1D autoreceptors on the modulation of 5–HT release in guinea–pig mesencephalic raphe, hippocampus and frontal cortex. el Mansari M, et al. **Br J Pharmacol** 1996 Jun;118(3):681–9
Changes in noradrenergic sensitivity to tumor necrosis factor–alpha in brains of rats administered clonidine. Ignatowski TA, et al. **J Neuroimmunol** 1996 Oct; 70(1):55–63
Effect of chronic administration of the selective serotonin (5–HT) uptake inhibitor citalopram on extracellular 5–HT and apparent autoreceptor sensitivity in rat forebrain in vivo. Auerbach SB, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 352(6):597–606
Presynaptic inhibitory serotonin autoreceptors in the human hippocampus. Schlicker E, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep; 354(3):393–6
Chronic administration of the 5–HT1A receptor agonist 8–OH–DPAT differentially desensitizes 5–HT1A autoreceptors of the dorsal and median raphe nuclei. Kreiss DS, et al. **Synapse** 1997 Feb;25(2):107–16

METABOLISM

Evidence for neurotensin autoreceptors and relationship of neurotensin and its receptors with tyrosine hydroxylase–positive neurons in rat primary hypothalamic cultures. Bachelet CM, et al. **Eur J Neurosci** 1997 Jul; 9(7):1483–7
Serotonin efflux in the rat ventral lateral geniculate nucleus assessed by fast cyclic voltammetry is modulated by 5–HT1B and 5–HT1D autoreceptors. Davidson C, et al. **Neuropharmacology** 1996;35(11):1627–34
Importance of h5–HT1B receptor selectivity for 5–HT terminal autoreceptor activity: an in vivo microdialysis study in the freely–moving guinea–pig. Roberts C, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):549–57
Pontine acetylcholine release is regulated by muscarinic autoreceptors. Roth MT, et al. **Neuroreport** 1996 Nov 25; 7(18):3069–72
Preservation of autoreceptor–mediated increases in dopamine synthesis in aged mice with experimentally–induced parkinsonism. Schneider JS. **Neurosci Lett** 1997 Jan 31; 222(2):138–40
5–Hydroxytryptamine1B and alpha 2 adrenaline receptors in the brain of rats prenatally treated with methylazoxymethanol. Watanabe M, et al. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Apr; 17(2):69–73
[Pre–synaptic M2 receptor and ET receptor in tracheal smooth muscle] Sano M, et al. **J Smooth Muscle Res** 1995 Dec;31(6):475–8 **(Jpn)**

PHYSIOLOGY

Stress–induced alterations of somatodendritic 5–HT1A autoreceptor sensitivity in the rat dorsal raphe nucleus—in vitro electrophysiological evidence. Laaris N, et al. **Fundam Clin Pharmacol** 1997;11(3):206–14
Preferential potentiation of the effects of serotonin uptake inhibitors by 5–HT1A receptor antagonists in the dorsal raphe pathway: role of somatodendritic autoreceptors. Romero L, et al. **J Neurochem** 1997 Jun;68(6):2593–603
Differential autoreceptor control of somatodendritic and axon terminal dopamine release in substantia nigra, ventral tegmental area, and striatum. Cragg SJ, et al. **J Neurosci** 1997 Aug 1;17(15):5738–46
GABAA receptor–mediated IPSCs in rat thalamic sensory nuclei: patterns of discharge and tonic modulation by GABAB autoreceptors. Le Feuvre Y, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):91–104
The role of 5–HT1A autoreceptors and alpha 1–adrenoceptors in the inhibition of 5–HT release—II NAN–190 and SDZ 216–525. Sharp T, et al. **Neuropharmacology** 1996 Jun;35(6):735–41
Do 5–HT1B/1D autoreceptors modulate dorsal raphe cell firing? In vivo electrophysiological studies in guinea pigs with GR127935. Sprouse J, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):559–67
Loss of autoreceptor function in dopaminergic neurons from dopamine D2 receptor deficient mice. Mercuri NB, et al. **Neuroscience** 1997 Jul;79(2):323–7

AUTOREGULATION see **HOMEOSTASIS**

AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY see **KIDNEY, POLYCYSTIC, AUTOSOMAL DOMINANT**

AUTOSOMAL RECESSIVE POLYCYSTIC KIDNEY see **KIDNEY, POLYCYSTIC, AUTOSOMAL RECESSIVE**

AUTOSOME ABNORMALITIES see **CHROMOSOME ABNORMALITIES**

AUTOTRANSFUSION see **BLOOD TRANSFUSION,**

AUTOTRANSFUSION

AUTOLOGOUS

AUTOTRANSPLANT see **TRANSPLANTATION, AUTOLOGOUS**

AUXINS

see related
GRAVITROPISM

ANTAGONISTS & INHIBITORS

Genetic analysis of the effects of polar auxin transport inhibitors on root growth in Arabidopsis thaliana. Fujita H, et al. **Plant Cell Physiol** 1996 Dec;37(8):1094–101

BIOSYNTHESIS

Protein processing and auxin response in transgenic tobacco harboring a putative cDNA of zeatin O–xylosyltransferase from Phaseolus vulgaris. Martin RC, et al. **Plant J** 1997 Aug;12(2):305–12

ISOLATION & PURIFICATION

Systematic multivariate optimization of separation of auxins by capillary electrophoresis based on overlapping resolution mapping scheme. Liu J, et al.
Biomed Chromatogr 1997 Jan–Feb;11(1):1–6

METABOLISM

Proton pump and auxin effect in Arabidopsis thaliana leaves during the development. Bellamine J, et al.
Biochem Mol Biol Int 1996 Sep;40(1):127–33

Reduced naphthylphthalamic acid binding in the tir3 mutant of Arabidopsis is associated with a reduction in polar auxin transport and diverse morphological defects. Ruegger M, et al. **Plant Cell** 1997 May;9(5):745–57

Molecular cloning and expression of the hot pepper ERabp1 gene encoding auxin–binding protein. Choi SY.
Plant Mol Biol 1996 Dec;32(5):995–7

Characterization of two cDNAs encoding auxin–binding proteins in Nicotiana tabacum. Leblanc N, et al.
Plant Mol Biol 1997 Mar;33(4):679–89

PHARMACOLOGY

Involvement of soluble proteinous factors in auxin–induced modulation of P–type ATPase in rice (Oryza sativa L.) seedlings. Kim D, et al. **FEBS Lett** 1997 Jun 9;409(2):273–6

Cloning of the pumpkin ascorbate oxidase gene and analysis of a cis–acting region involved in induction by auxin. Kisu Y, et al. **Plant Cell Physiol** 1997 May;38(5):631–7

Analysis of the promoter of the auxin–inducible gene, parC, of tobacco. Sakai T, et al. **Plant Cell Physiol** 1996 Oct; 37(7):906–13

VR–ACS6 is an auxin–inducible 1–aminocyclopropane–1–carboxylate synthase gene in mungbean (Vigna radiata). Yoon IS, et al.
Plant Cell Physiol 1997 Mar;38(3):217–24

Auxin regulation and spatial localization of an endo–1,4–beta–D–glucanase and a xyloglucan endotransglycosylase in expanding tomato hypocotyls. Catalá C, et al. **Plant J** 1997 Aug;12(2):417–26

Mutations in the AXR3 gene of Arabidopsis result in altered auxin response including ectopic expression from the SAUR–AC1 promoter. Leyser HM, et al. **Plant J** 1996 Sep;10(3):403–13

Expression of a novel–type small proline–rich protein gene of alfalfa is induced by 2,4–dichlorophenoxiacetic acid in dedifferentiated callus cells. Györgyey J, et al.
Plant Mol Biol 1997 Jul;34(4):593–602

Cloning, molecular characterization and expression pattern of a strawberry ripening–specific cDNA with sequence homology to pectate lyase from higher plants. Medina–Escobar N, et al. **Plant Mol Biol** 1997 Aug; 34(6):867–77

In vitro propagation of Rauvolfia serpentina through tissue culture [letter] Sarker KP, et al. **Planta Med** 1996 Aug; 62(4):358–9

ARF1, a transcription factor that binds to auxin response elements. Ulmasov T, et al. **Science** 1997 Jun 20; 276(5320):1865–8

PHYSIOLOGY

The SAR1 gene of Arabidopsis acts downstream of the AXR1 gene in auxin response. Cernac A, et al.
Development 1997 Apr;124(8):1583–91

Plant hormones and plant virus diseases. The auxins. Pennazio S, et al. **New Microbiol** 1996 Oct;19(4):369–78 (87 ref.)

Cloning of a WD–repeat–containing gene from alfalfa (Medicago sativa): a role in hormone–mediated cell division? McKhann HI, et al. **Plant Mol Biol** 1997 Jul; 34(5):771–80

AV NODE see **ATRIOVENTRICULAR NODE**

AVAILABILITY EQUIVALENCY see **BIOLOGICAL AVAILABILITY**

AVAILABILITY OF HEALTH SERVICES see **HEALTH SERVICES ACCESSIBILITY**

AVENA SATIVA see **OATS**

AVERSIVE THERAPY

Participation in multicomponent hypnosis treatment programs for women's weight loss with and without overt aversion. Johnson DL, et al. **Psychol Rep** 1996 Oct; 79(2):659–68

Weight loss for women: studies of smokers and nonsmokers using hypnosis and multicomponent treatments with and without overt aversion. Johnson DL. **Psychol Rep** 1997 Jun;80(3 Pt 1):931–3

[Learning by mice of Y–maze using drinking reinforcement and aversive olfactory stimulus (beneficial effect of ginsenosides)] Chepurnov SA, et al.
Biull Eksp Biol Med 1996 Sep;122(9):253–7 **(Rus)**

METHODS

Chronic nailbiting: a controlled comparison of competing response and mild aversion treatments. Allen KW.
Behav Res Ther 1996 Mar;34(3):269–72

The use of pharmacologic pain sensitization in the treatment of repetitive hair–pulling. Ristvedt SL, et al.
Behav Res Ther 1996 Aug;34(8):647–8

Six– and twelve–month abstinence rates in inpatient alcoholics treated with either faradic aversion or chemical aversion compared with matched inpatients from a treatment registry. Smith JW, et al. **J Addict Dis** 1997; 16(1):5–24

Long–term use of electrical aversion treatment with self–injurious behavior. Duker PC, et al.
Res Dev Disabil 1996 Jul–Aug;17(4):293–301

AVIADENOVIRUS

Variations in response of four lines of ring–necked pheasants to infection with marble spleen disease virus. Kunze LS, et al. **Avian Dis** 1996 Apr–Jun;40(2):306–11

Humoral immune response of chicks to different clinical isolates of avian adenovirus type–1. Maiti NK, et al.
Comp Immunol Microbiol Infect Dis 1997 Jan;20(1):59–62

Egg Drop syndrome '76 in Bolivia. Bishop SC, et al.
Trop Anim Health Prod 1996 Aug;28(3):199–206

CHEMISTRY

Hydropathic characteristics of adenovirus hexons. Li QG, et al. **Arch Virol** 1997;142(7):1307–22

Structural polypeptides of different clinical strains of avian adenovirus type–1. Maiti NK, et al.
Comp Immunol Microbiol Infect Dis 1997 Jan;20(1):53–8

CLASSIFICATION

Sequence of the avian adenovirus FAV 1 (CELO) DNA encoding the hexon–associated protein pVI and hexon. Akopian TA, et al. **Arch Virol** 1996;141(9):1759–65

GENETICS

DNA in situ hybridization for the rapid diagnosis of massive necrotizing avian adenovirus hepatitis and pancreatitis in chicks. Goodwin MA, et al. **Avian Dis** 1996 Oct–Dec; 40(4):828–31

Identification of a novel antiapoptotic protein, GAM–1, encoded by the CELO adenovirus. Chiocca S, et al.
J Virol 1997 Apr;71(4):3168–77

Immunopathogenesis and physical maps of fowl adenovirus serotype 9. Erny KM, et al. **Res Vet Sci** 1996 Sep; 61(2):174–5

Molecular cloning and restriction enzyme mapping of avian adenovirus type 8 DNA. Clavijo A, et al. **Virus Res** 1996 Dec;45(2):93–9

Identification and characterization of penton base and pVIII protein of egg drop syndrome virus. Rohn K, et al.
Virus Res 1997 Jan;47(1):59–65

Molecular cloning and sequence analysis of the penton base genes of type II avian adenoviruses. Suresh M, et al.
Virus Res 1995 Dec;39(2–3):289–97

ISOLATION & PURIFICATION

Structural polypeptides of different clinical strains of avian adenovirus type–1. Maiti NK, et al.
Comp Immunol Microbiol Infect Dis 1997 Jan;20(1):53–8

Isolation and identification of adenoviruses from ostriches (Struthio camelus). Gough RE, et al. **Vet Rec** 1997 Apr 12;140(15):402–3

METABOLISM

Electron microscopic evidence for infection of splenic dendritic cells by adenovirus in psittacine birds. Gómez–Villamandos JC, et al. **Res Virol** 1995 Nov–Dec; 146(6):389–395

PATHOGENICITY

The oncogenic potential of eleven avian adenovirus strains. Dhillon AS, et al. **Avian Dis** 1997 Jan–Mar;41(1):247–51

PHYSIOLOGY

Avian adenovirus induces ion channels in model bilayer lipid membranes. Rosenkranz AA, et al.
Biochem Biophys Res Commun 1997 Jul 30;236(3):750–3

AVIAN ADENOVIRUSES see **AVIADENOVIRUS**

AVIAN ERYTHROBLASTOSIS VIRUS see **ERYTHROBLASTOSIS VIRUS, AVIAN**

AVIAN HYPERSENSITIVITY PNEUMONITIS see **BIRD FANCIER'S LUNG**

AVIAN INFECTIOUS BRONCHITIS VIRUS see **INFECTIOUS BRONCHITIS VIRUS, AVIAN**

AVIAN INFECTIOUS LARYNGOTRACHEITIS VIRUS see **HERPESVIRUS 1, GALLID**

AVIAN INFLUENZA A VIRUS see **INFLUENZA A VIRUS, AVIAN**

AVIAN LEUKOSIS

Avian erythropoiesis and erythroleukemia: towards understanding the role of the biomolecules involved. Beug H, et al. **Biochim Biophys Acta** 1996 Dec 9;1288(3):M35–47 (92 ref.)

COMPLICATIONS

Analysis of the initiation period of spontaneous autoimmune thyroiditis (SAT) in obese strain (OS) of chickens. Hala K, et al. **J Autoimmun** 1996 Apr;9(2):129–38

DIAGNOSIS

Recombinant env–gp85 of HPRS–103 (subgroup J) avian leukosis virus: antigenic characteristics and usefulness as a diagnostic reagent. Venugopal K, et al. **Avian Dis** 1997 Apr–Jun;41(2):283–8

GENETICS

Expression of tumour phenotypes, hatchability and liver tumour mortality in two routes of inoculation in fowl. Mehta SC, et al. **Indian J Exp Biol** 1996 Jun;34(6):539–42

Role of contact and genetic transmission of endogenous virus–21 in the susceptibility of chickens to avian leukosis virus infection and tumors. Fadly AM, et al. **Poult Sci** 1997 Jul;76(7):968–73

IMMUNOLOGY

Intratesticular inoculation of avian leukosis virus (ALV) in chickens--production of neutralizing antibodies and lack of virus shedding into semen. Afanassieff M, et al.
Avian Dis 1996 Oct–Dec;40(4):841–52

Detection of antibodies to avian leukosis/sarcoma viruses and reticuloendotheliosis viruses in humans by western blot assay. Johnson ES, et al. **Cancer Detect Prev** 1995; 19(6):472–86

PATHOLOGY

Micromorphology of cytoplasmic nucleoprotein complexes harboring an extrachromosomal DNA closely related to avian myeloblastosis virus core–bound DNA. Korb J, et al. **FEBS Lett** 1997 Sep 8;414(2):393–6

Tissue tropism of the HPRS–103 strain of J subgroup avian leukosis virus and of a derivative acutely transforming virus. Arshad SS, et al. **Vet Pathol** 1997 Mar;34(2):127–37

TRANSMISSION

Role of contact and genetic transmission of endogenous virus–21 in the susceptibility of chickens to avian leukosis virus infection and tumors. Fadly AM, et al. **Poult Sci** 1997 Jul;76(7):968–73

VIROLOGY

Frequent detection of reviraemia in ducks persistently infected with avian leukosis retroviruses. Geryk J, et al. **Folia Biol (Praha)** 1996;42(5):245–55

FAETL motif required for leukemic transformation by v–Myb. Fu SL, et al. **J Virol** 1996 Aug;70(8):5600–10

Avian leukemias and lymphomas: interplay between retroviruses and herpesviruses. Robinson D, et al.
Leukemia 1997 Apr;11 Suppl 3:176–8

Avian retroviruses. Fadly AM.
Vet Clin North Am Food Anim Pract 1997 Mar;13(1):71–85 (65 ref.)

Tissue tropism of the HPRS–103 strain of J subgroup avian leukosis virus and of a derivative acutely transforming virus. Arshad SS, et al. **Vet Pathol** 1997 Mar;34(2):127–37

AVIAN LEUKOSIS–SARCOMA VIRUSES see **RETROVIRUSES TYPE C, AVIAN**

AVIAN LEUKOSIS VIRUS see **LEUKOSIS VIRUS, AVIAN**

AVIAN MYELOBLASTOSIS VIRUS see **MYELOBLASTOSIS VIRUS, AVIAN**

AVIAN NEPHROSIS VIRUS see **INFECTIOUS BURSAL DISEASE VIRUS**

AVIAN ORTHOMYXOVIRUS TYPE A see **INFLUENZA A VIRUS, AVIAN**

AVIAN PARAMYXOVIRUS 1 see **NEWCASTLE DISEASE VIRUS**

AVIAN PARAMYXOVIRUSES see **PARAMYXOVIRUSES, AVIAN**

AVIAN REOVIRUSES see **ORTHOREOVIRUS**

AVIAN RETICULOENDOTHELIOSIS VIRUS see **RETICULOENDOTHELIOSIS VIRUS, AVIAN**

AVIAN SARCOMA see **SARCOMA, AVIAN**

AVIAN SARCOMA VIRUS B77 see **SARCOMA VIRUSES, AVIAN**

AVIAN SARCOMA VIRUSES see **SARCOMA VIRUSES, AVIAN**

AVIATION

see related

AIRCRAFT

Stapedectomy in combat pilots. Katzav J, et al. **Am J Otol** 1996 Nov;17(6):847–9

Effects of a single dose of loratadine on flying ability under conditions of simulated cabin pressure. Valk PJ, et al. **Am J Rhinol** 1997 Jan–Feb;11(1):27–33

Crew resource management: a simulator study comparing fixed versus formed aircrews. Barker JM, et al. **Aviat Space Environ Med** 1996 Jan;67(1):3–7

Arterial gas embolism following a 1-meter ascent during helicopter escape training: a case report. Benton PJ, et al. **Aviat Space Environ Med** 1996 Jan;67(1):63–4

Lymphedema initiated by aircraft flights. Casley-Smith JR, et al. **Aviat Space Environ Med** 1996 Jan;67(1):52–6

Laughter in the cockpit: gelastic seizures—a case report. Feeks EF, et al. **Aviat Space Environ Med** 1997 Jan; 68(1):66–8

Occupational outcome in military aviators after psychiatric hospitalization. Flynn CF, et al. **Aviat Space Environ Med** 1996 Jan;67(1):8–13

Disease evaluated on return-to-work examinations: aviation ground personnel compared to other workers. Froom P, et al. **Aviat Space Environ Med** 1996 Apr;67(4):361–3

Urinary 5-hydroxytryptophol following acute ethanol consumption: clinical evaluation and potential aviation applications. Hagan RL, et al. **Aviat Space Environ Med** 1997 Jan;68(1):30–4

Relationship of leg strength and power to ground reaction forces in both experienced and novice jump trained personnel. Hoffman JR, et al. **Aviat Space Environ Med** 1997 Aug;68(8):710–4

Flying status and coronary revascularization procedures in military aviators. Khan MA, et al. **Aviat Space Environ Med** 1996 Feb;67(2):165–70 (32 ref.)

Air traffic controller shiftwork: what are the implications for aviation safety? A review. Luna TD. **Aviat Space Environ Med** 1997 Jan;68(1):69–79 (142 ref.)

A study of USAF air traffic controller shiftwork: sleep, fatigue, activity, and mood analyses. Luna TD, et al. **Aviat Space Environ Med** 1997 Jan;68(1):18–23

The effect of optical blur on simulated IFR approaches. Mann J, et al. **Aviat Space Environ Med** 1996 Aug; 67(8):739–45

Aircrew ejections in the Republic of Bulgaria, 1953–93. Milanov L. **Aviat Space Environ Med** 1996 Apr;67(4):364–8

Correction of subtle refractive error in aviators. Rabin J. **Aviat Space Environ Med** 1996 Feb;67(2):161–4

The Dynamic Aviation Data System (DADS). Soman S, et al. **Aviat Space Environ Med** 1997 Aug;68(8):736–9

The distribution of limb pain in decompression sickness. Sowden LM, et al. **Aviat Space Environ Med** 1996 Jan; 67(1):74–80

Managing fatigue in operational settings 2: An integrated approach. Rosekind MR, et al. **Behav Med** 1996 Winter; 21(4):166–70 (7 ref.)

Pattern of burn injury in hang-glider pilots. Campbell DC, et al. **Burns** 1996 Jun;22(4):328–30

Policy. Medical emergencies on the fly [news] **Hosp Health Netw** 1996 Dec 20;70(24):10

Combining time and intensity effects in assessing operator information-processing load. Hendy KC, et al. **Hum Factors** 1997 Mar;39(1):30–47 (56 ref.)

Detection of orthopaedic implants by airport metal detectors. Basu P, et al. **J Bone Joint Surg Br** 1997 May;79(3):388–9

Detection of orthopaedic prostheses at airport security checks. Grohs JG, et al. **J Bone Joint Surg Br** 1997 May; 79(3):385–7

Hormonal responses to psychological stress in men preparing for skydiving. Chatterton RT Jr, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2503–9

Lung cancer in chromate-exposed aerospace workers. Alexander BH, et al. **J Occup Environ Med** 1996 Dec; 38(12):1253–8

A prospective study for upper-extremity cumulative trauma disorders of workers in aircraft manufacturing. Melhorn JM. **J Occup Environ Med** 1996 Dec;38(12):1264–71

Parachuting injury surveillance, Fort Bragg, North Carolina, May 1993 to December 1994. Craig SC, et al. **Mil Med** 1997 Mar;162(3):162–4

Parachuting injuries among Army Rangers: a prospective survey of an elite airborne battalion. Kragh JF Jr, et al. **Mil Med** 1996 Jul;161(7):416–9

Parachuting injuries: a medical analysis of an airborne operation. Kragh JF Jr, et al. **Mil Med** 1996 Feb; 161(2):67–9

Increase of chromosomal aberrations induced by ionising radiation in peripheral blood lymphocytes of civil aviation pilots and crew members. Romano E, et al. **Mutat Res** 1997 Jun 9;377(1):89–93

[Improvement of protective and survival means as a current ecological-ergonomic problem in aviation] Ushakov IB, et al. **Aviakosm Ekolog Med** 1997;31(2):4–8 (Eng. Abstr.) **(Rus)**

EDUCATION

[Visual tests and their score for selection of candidates to higher aviation schools] Okovitov VV. **Aviakosm Ekolog Med** 1996;30(5):62–6 (Eng. Abstr.) **(Rus)**

[Intellectual ability and the success of flight training] Ponomarenko VA, et al. **Fiziol Cheloveka** 1996 Jul–Aug; 22(4):86–90 **(Rus)**

[The sociomedical problems in the work of flight instructors] Onishchenko AN. **Probl Sotsialnoi Gig Istor Med** 1997 Mar–Apr;(2):11–3 (Eng. Abstr.) **(Rus)**

[Methodological and organizational aspects of psychophysiologic care in the military training of aviation specialists] Stupakov GP, et al. **Vestn Ross Akad Med Nauk** 1997;(4):40–4 **(Rus)**

[The psychophysiological functions of students with different achievements in flight training] Makarenko MV. **Fiziol Zh** 1995 Sep–Dec;41(5–6):3–11 (Eng. Abstr.) **(Ukr)**

HISTORY

[History of solving medical problems of safety provisions of altitude flights] Dvornikov MV, et al. **Vestn Ross Akad Med Nauk** 1996;(7):15–9 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

An assessment of the ANV 20/20 focusing aid for night vision devices. Manton AG, et al. **J R Army Med Corps** 1996 Oct;142(3):110–3

MANPOWER

Two-crew operations: stress and fatigue during long-haul night flights. Samel A, et al. **Aviat Space Environ Med** 1997 Aug;68(8):679–87

[The JRF (job-related-features) designer as a methodological approach to the professional psychological selection of specialists in aviation] Aleshin SV. **Aviakosm Ekolog Med** 1996;30(3):54–7 (Eng. Abstr.) **(Rus)**

STANDARDS

Alcohol policy and aviation safety. Cook CC. **Addiction** 1997 Jul;92(7):793–804 (36 ref.)

Proposed revision of FAA medical standards is not an April Fools' Day joke. Dille JR. **Aviat Space Environ Med** 1996 Jan;67(1):89–90

The responsibility of aviation medicine [letter] Krakauer H. **Aviat Space Environ Med** 1996 Jul;67(7):665

Pilots' knowledge of the relationship between alcohol consumption and levels of blood alcohol concentration. Widders R, et al. **Aviat Space Environ Med** 1997 Jun; 68(6):531–7

STATISTICS & NUMERICAL DATA

Crashes of instructional flights. Baker SP, et al. **Aviat Space Environ Med** 1996 Feb;67(2):105–10

Cancer incidence in United States Air Force aircrew, 1975–89 [see comments] Grayson JK, et al. **Aviat Space Environ Med** 1996 Feb;67(2):101–4. Comment in: Aviat Space Environ Med 1996 Apr;67(4):389. Comment in: Aviat Space Environ Med 1996 Aug;67(8):794.

Hepatitis A infection in aircrews: risk of infection and cost-benefit analysis of hepatitis A vaccination. Gutersohn T, et al. **Aviat Space Environ Med** 1996 Feb;67(2):153–6

AVIATION MEDICINE see **AEROSPACE MEDICINE**

AVIDIN

Transblot identification of avidin-interacting proteins in rat salivary glands. Shirakawa S, et al. **Biochem Mol Biol Int** 1996 Sep;40(1):67–72

Tumor pretargeting: role of avidin/streptavidin on monoclonal antibody internalization. Casalini P, et al. **J Nucl Med** 1997 Sep;38(9):1378–81

Free and bound biotin molecules in helminths: a source of artifacts for avidin biotin-based immunoassays. Romaris F, et al. **Parasitol Res** 1996;82(7):617–22

ANALOGS & DERIVATIVES

Immobilized nitro-avidin and nitro-streptavidin as reusable affinity matrices for application in avidin-biotin technology. Morag E, et al. **Anal Biochem** 1996 Dec 15; 243(2):257–63

ANALYSIS

Protein patterning with a photoactivatable derivative of biotin. Hengsakul M, et al. **Bioconjug Chem** 1996 Mar–Apr; 7(2):249–54

Anti-biotin antibodies offer superior organelle-specific labeling of mitochondria over avidin or streptavidin. Hollinshead M, et al. **J Histochem Cytochem** 1997 Aug; 45(8):1053–7

CHEMISTRY

Generation of biotin/avidin/enzyme nanostructures with maskless photolithography. Dontha N, et al. **Anal Chem** 1997 Jul 15;69(14):2619–25

Combining avidin-biotin chemistry with matrix-assisted laser desorption/ionization mass spectrometry. Schriemer DC, et al. **Anal Chem** 1996 Oct 1;68(19):3382–7

A monoclonal antibody to avidin dissociates quaternary structure and curtails biotin binding to avidin and streptavidin. Subramanian N, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):281–8

Biotin-pyrene conjugates with poly(ethylene glycol) spacers are convenient fluorescent probes for avidin and streptavidin. Marek M, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):560–6

Fourier-transform infrared spectroscopic studies on avidin secondary structure and complexation with biotin and biotin-lipid assemblies. Swamy MJ, et al. **Biophys J** 1996 Aug;71(2):840–7

Sodium dodecyl sulfate-polyacrylamide gel electrophoretic method for assessing the quaternary state and comparative thermostability of avidin and streptavidin. Bayer EA, et al. **Electrophoresis** 1996 Aug;17(8):1319–24

Functional and pharmacokinetic properties of antibody-avidin fusion proteins. Shin SU, et al. **J Immunol** 1997 May 15;158(10):4797–804

A method to attach lectins to the surface of spermine alginate microcapsules based on the avidin biotin interaction. Sultzbaugh KJ, et al. **J Microencapsul** 1996 Jul–Aug; 13(4):363–76

Detection of rabies virus antigen in animals by avidin-biotin dot ELISA. Jayakumar R, et al. **Zentralbl Bakteriol** 1996 Sep;285(1):82–5

DIAGNOSTIC USE

Inflammation-seeking scintigraphy with radiolabeled biotinylated polyclonal IgG followed by the injection of avidin chase. Kobayashi H, et al. **Nucl Med Biol** 1996 Jan; 23(1):29–32

GENETICS

Two chicken repeat one (CR1) elements lacking a silencer-like region upstream of the chicken avidin-related genes Avr4 and Avr5. Wallén MJ, et al. **Biochim Biophys Acta** 1996 Sep 11;1308(3):193–6

Development of drug targeting based on recombinant expression of the chicken avidin gene. Walker L, et al. **J Drug Target** 1996;4(1):41–9

IMMUNOLOGY

A monoclonal antibody to avidin dissociates quaternary structure and curtails biotin binding to avidin and streptavidin. Subramanian N, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):281–8

ISOLATION & PURIFICATION

Production of biologically active recombinant avidin in baculovirus-infected insect cells. Airenne KJ, et al. **Protein Expr Purif** 1997 Feb;9(1):100–8

METABOLISM

Spin-label studies on the anchoring and lipid-protein interactions of avidin with N-biotinylphosphatidylethanolamines in lipid bilayer membranes. Swamy MJ, et al. **Biochemistry** 1997 Jun 17; 36(24):7403–7

Biotin-fluorophore conjugates with poly(ethylene glycol) spacers retain intense fluorescence after binding to avidin and streptavidin. Gruber HJ, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):552–9

Dynamic strength of molecular adhesion bonds. Evans E, et al. **Biophys J** 1997 Apr;72(4):1541–55

Molecular dynamics study of unbinding of the avidin-biotin complex. Izrailev S, et al. **Biophys J** 1997 Apr; 72(4):1568–81

Identification of avidin and streptavidin binding motifs among peptides selected from a synthetic peptide library consisting solely of D-amino acids. Gissel B, et al. **J Pept Sci** 1995 Jul–Aug;1(4):217–26

Photo-reversible binding of thrombin to avidin by means of a photolabile inhibitor. Porter NA, et al. **J Photochem Photobiol B** 1997 Mar;38(1):61–9

Application of high affinity binding concept to radiolabel avidin with Tc-99m labeled biotin and the effect of pI on biodistribution. Jeong JM, et al. **Nucl Med Biol** 1994 Oct; 21(7):935–40

AVIDIN

PHARMACOKINETICS

Antibody fragments in tumor pretargeting. Evaluation of biotinylated Fab' colocalization with recombinant streptavidin and avidin. Wilbur DS, et al. **Bioconjug Chem** 1996 Nov–Dec;7(6):689–702

Tumor cell targeting with antibody–avidin complexes and biotinylated tumor necrosis factor alpha. Moro M, et al. **Cancer Res** 1997 May 15;57(10):1922–8

Liver accumulation of TNP–modified streptavidin and avidin: potential use for targeted radio– and chemotherapy. Schechter B, et al. **J Drug Target** 1996;4(3):171–9

PHARMACOLOGY

Biotin deficiency facilitates kindling hyperexcitability in rats. Bregola G, et al. **Neuroreport** 1996 Jul 29;7(11):1745–8

Intravenous avidin chase improved localization of radiolabeled streptavidin in intraperitoneal xenograft pretargeted with biotinylated antibody. Zhang M, et al. **Nucl Med Biol** 1997 Jan;24(1):61–4

AVIDITY, ANTIBODY see **ANTIBODY AFFINITY**

AVIHEPADNAVIRUS

GENETICS

Sequence heterogeneity of heron hepatitis B virus genomes determined by full–length DNA amplification and direct sequencing reveals novel and unique features. Netter HJ, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1707–18

Previously unsuspected cis–acting sequences for DNA replication revealed by characterization of a chimeric heron/duck hepatitis B virus. Mueller–Hill K, et al. **J Virol** 1996 Dec;70(12):8310–7

METABOLISM

Sequence– and structure–specific determinants in the interaction between the RNA encapsidation signal and reverse transcriptase of avian hepatitis B viruses. Beck J, et al. **J Virol** 1997 Jul;71(7):4971–80

AVIPOXVIRUS

Effect of canarypox virus (ALVAC)–mediated cytokine expression on murine prostate tumor growth [see comments] Kawakita M, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):428–36. Comment in: J Natl Cancer Inst 1997 Mar 19;89(6):408–9.

Canarypox virus vectors for gene transfer in cancer immunotherapy [editorial; comment] Levitsky HI. **J Natl Cancer Inst** 1997 Mar 19;89(6):408–9. Comment on: J Natl Cancer Inst 1997 Mar 19;89(6):428–60.

Diversified prime and boost protocols using recombinant vaccinia virus and recombinant non–replicating avian pox virus to enhance T–cell immunity and antitumor responses. Hodge JW, et al. **Vaccine** 1997 Apr–May;15(6–7):759–68

CLASSIFICATION

Comparison of field and vaccine strains of Australian fowlpox viruses. Boyle DB, et al. **Arch Virol** 1997;142(4):737–48

GENETICS

Memory cytotoxic T lymphocyte responses in human immunodeficiency virus type 1 (HIV–1)–negative volunteers immunized with a recombinant canarypox expressing gp 160 of HIV–1 and boosted with a recombinant gp160. Fleury B, et al. **J Infect Dis** 1996 Oct; 174(4):734–8

A recombinant canarypox virus protects rabbits against a lethal rabbit hemorrhagic disease virus (RHDV) challenge. Fischer L, et al. **Vaccine** 1997 Jan;15(1):90–6

IMMUNOLOGY

Protection of dogs against canine distemper by vaccination with a canarypox virus recombinant expressing canine distemper virus fusion and hemagglutinin glycoproteins. Pardo MC, et al. **Am J Vet Res** 1997 Aug;58(8):833–6

Evaluation of a commercial quail pox vaccine (Bio–Pox Q) for the control of "variant" fowl poxvirus infections. Fatunmbi OO, et al. **Avian Dis** 1996 Oct–Dec;40(4):792–7

Cross–protection test of an avian poxvirus isolated from houbara bustards. Ostrowski S, et al. **Avian Dis** 1996 Oct–Dec;40(4):762–9

Replication–defective canarypox (ALVAC) vectors effectively activate anti–human immunodeficiency virus–1 cytotoxic T lymphocytes present in infected patients: implications for antigen–specific immunotherapy. Ferrari G, et al. **Blood** 1997 Sep 15;90(6):2406–16

ISOLATION & PURIFICATION

An epornitic of avian pox in houbara bustards (Chlamydotis undulata macqueenii). Samour JH, et al. **Zentralbl Veterinarmed [B]** 1996 Jul;43(5):287–92

AVITAMINOSIS

COMPLICATIONS

The effects of oral vitamin supplementation on cardiovascular risk factors. Woodside JV, et al. **Proc Nutr Soc** 1997 Mar; 56(1B):479–88 (77 ref.)

[Abnormal status of vitamins and cardiovascular diseases] Ayaori M, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (15):60–2 (17 ref.) **(Jpn)**

[Nutritional disorders and myocardial disease] Masani F, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):36–8 (12 ref.) **(Jpn)**

[Sun, vitamin D, osteoporosis, and the dark side of the moon (editorial)] González Macías J, et al. **Med Clin (Barc)** 1996 Jan 20;106(2):60–2 **(Spa)**

DRUG THERAPY

[Vitamin status of the population from regions suffering from the accident at the Chernobyl power plant, and its correction with multivitamins "Duovit" and "Undevit" and multivitamin premix 730/4 of the firm "Roche"] Spirichev VB, et al. **Vopr Pitan** 1997;(3):11–6 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

[Vitamin deficiency is very rare in Sweden. Vitamin D supplementation to children for prevention of rickets] Becker W. **Lakartidningen** 1997 Aug 27;94(35):2936, 2939–40 **(Swe)**

ETIOLOGY

[Scurvy, a serious and rare form of avitaminosis, easily diagnosed and treated. Presentation of a case (see comments)] Gil Llano JR, et al. **An Med Interna** 1995 Sep; 12(9):450–2 (Eng. Abstr.). Comment in: An Med Interna 1996 Sep;13(9):462–3. **(Spa)**

IMMUNOLOGY

Trace elements and vitamins in immunomodulation in infancy and childhood. Zuin G, et al. **Eur J Cancer Prev** 1997 Mar; 6 Suppl 1:S69–77 (50 ref.)

PHYSIOPATHOLOGY

High–risk subjects for vitamin deficiency. Filiberti R, et al. **Eur J Cancer Prev** 1997 Mar;6 Suppl 1:S37–42 (51 ref.)

The effect of a subnormal dose of vitamin B6 on plasma lipid in the rat. Harripersad R, et al. **Int J Vitam Nutr Res** 1997;67(2):95–101

Vitamin A deficiency exacerbates methotrexate–induced jejunal injury in rats. Warden RA, et al. **J Nutr** 1997 May; 127(5):770–6

PREVENTION & CONTROL

Vitamin requirements: present recommendations and future prospects. Giacosa A, et al. **Eur J Cancer Prev** 1997 Mar; 6 Suppl 1:S79–81 (10 ref.)

VETERINARY

Vitamin and trace mineral withdrawal effects on broiler breast tissue riboflavin and thiamin content. Deyhim F, et al. **Poult Sci** 1996 Feb;75(2):201–2

AVOIDANCE LEARNING

see related

ESCAPE REACTION

Behavioural feedback to risk variation ensues from unsatisfied appetency. Dussault C. **Accid Anal Prev** 1996 Jul; 28(4):477–86 (20 ref.)

Avoidant personality disorder and taijin kyoufu: sociocultural implications of the WHO/ADAMHA International Study of Personality Disorders in Japan. Ono Y, et al. **Acta Psychiatr Scand** 1996 Mar;93(3):172–6

Effects of taste aversion training on the acquisition of alcohol drinking in adolescent P and HAD rat lines. McKinzie DL, et al. **Alcohol Clin Exp Res** 1996 Jun;20(4):682–7

Central infusion of GLP–1, but not leptin, produces conditioned taste aversions in rats. Thiele TE, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R726–30

Temperament and food neophobia in children and their mothers. Pliner P, et al. **Appetite** 1997 Jun;28(3):239–54

Facilitation of conditioned odor aversion by entorhinal cortex lesions in the rat. Ferry B, et al. **Behav Neurosci** 1996 Jun; 110(3):443–50

Spider phobia in children: disgust and fear before and after treatment. De Jong PJ, et al. **Behav Res Ther** 1997 Jun; 35(6):559–62

Good teeth, bad teeth and fear of the dentist. Poulton R, et al. **Behav Res Ther** 1997 Apr;35(4):327–34

Formation and retrieval of inhibitory avoidance memory: differential roles of glutamate receptors in the amygdala and medial prefrontal cortex. Liang KC, et al. **Chin J Physiol** 1996;39(3):155–66

Learning and retention of conditioned aversions by freely feeding chicks. Hayne H, et al. **Dev Psychobiol** 1996 Jul; 29(5):417–31

The ontogeny of antipredator behavior in paradise fish larvae (Macropodus opercularis) IV. The effect of exposure to siblings. Miklósi A, et al. **Dev Psychobiol** 1997 May; 30(4):283–91

Comparison of the stimulus properties of ethanol and the Ca2+ channel antagonist nimodipine in rats. De Beun R, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):5–13

Avoidance coping, binge eating, and depression: an examination of the escape theory of binge eating. Paxton SJ, et al. **Int J Eat Disord** 1997 Jul;22(1):83–7

Pesticide avoidance behavior in Anopheles albimanus, a malaria vector in the Americas. Chareonviriyaphap T, et al. **J Am Mosq Control Assoc** 1997 Jun;13(2):171–83

Role of anxiety sensitivity in pain–related fear and avoidance. Asmundson GJ, et al. **J Behav Med** 1996 Dec;19(6):577–86

The role of avoidance and obsessiveness in matching patients to cognitive and interpersonal psychotherapy: empirical findings from the treatment for depression collaborative research program. Barber JP, et al. **J Consult Clin Psychol** 1996 Oct;64(5):951–8

Effects of repeated disorientation on the acquisition of spatial tasks in rats: dissociation between the appetitive radial arm maze and aversive water maze. Dudchenko PA, et al. **J Exp Psychol Anim Behav Process** 1997 Apr;23(2):194–210

A simplified preparation for relating cellular events to behavior: contribution of LE and unidentified siphon sensory neurons to mediation and habituation of the Aplysia gill– and siphon–withdrawal reflex. Frost L, et al. **J Neurosci** 1997 Apr 15;17(8):2900–13

The Behavioral Approach–Avoidance and Distress Scale: an investigation of reliability and validity during painful medical procedures. Bachanas PJ, et al. **J Pediatr Psychol** 1996 Oct;21(5):671–81

Approach and avoidance motivation in psychopathic criminal offenders during passive avoidance. Arnett PA, et al. **J Pers Soc Psychol** 1997 Jun;72(6):1413–28

Chronic administration of cyclosporine A does not impair memory retention in rats. Borlongan CV, et al. **Neuroreport** 1997 Feb 10;8(3):673–6

Gustatory and visceral inputs to the amygdala of the rat: conditioned taste aversion and induction of c–fos–like immunoreactivity. Yamamoto T, et al. **Neurosci Lett** 1997 Apr 25;226(2):127–30

Effect of perinatal lead exposure on rat behaviour in open–field and two–way avoidance tasks. Rodrigues AL, et al. **Pharmacol Toxicol** 1996 Sep;79(3):150–6

Remote and proximal US preexposure and aging effects in taste aversion learning in rats. Misanin JR, et al. **Physiol Behav** 1997 Feb;61(2):221–4

Extinction of a conditioned taste aversion in rats: I. Behavioral effects. Nolan LJ, et al. **Physiol Behav** 1997 Feb;61(2):319–23

Food neophobia in humans: effects of manipulated arousal and individual differences in sensation seeking. Pliner P, et al. **Physiol Behav** 1997 Feb;61(2):331–5

Avoidance as a coping strategy for nurses in Thailand. Tyson PD, et al. **Psychol Rep** 1996 Oct;79(2):592–4

Combining operant–baseline–derived conditioned excitors and inhibitors from the same and different incentive classes: an investigation of appetitive–aversive interactions. Weiss SJ, et al. **Q J Exp Psychol B** 1996 Nov;49(4):357–81

[Manufacture of computer–based testing and analyzing system for measuring step–through performance] Liu X, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1995 Dec;17(6):466–9 (Eng. Abstr.) **(Chi)**

[Combined effects of hypokinesia and various doses of gamma irradiation on conditioned reflex activity in rats] Shtemberg AS. **Aviakosm Ekolog Med** 1997;31(3):34–9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Ontogenetic differences in the expression of olfactory–conditioned aversions resulting from a state of acute alcohol intoxication in the rat. Lopez MF, et al. **Alcohol** 1996 Sep–Oct;13(5):473–81

Effects of naloxone on limited–access ethanol drinking in rats. Davidson D, et al. **Alcohol Clin Exp Res** 1996 Jun; 20(4):664–9

Effects of ethyl alcohol administration to THA rat dams during their gestation period on learning behavior and on levels of monoamines and metabolites in the brain of pups after birth. Furuya H, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):305A–310A

Naltrexone treatment increases the aversiveness of alcohol for outbred rats. Hill KG, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):637–41

Effects of calcium channel blockers on impairment of brain function in senescence–accelerated mice. Yamamoto M, et al. **Arch Int Pharmacodyn Ther** 1995 Sep–Oct;330(2):125–37

Effects of two protein–free peptide derivatives on passive avoidance behaviour of 24–month–old rats. Hutter–Paier B, et al. **Arzneimittelforschung** 1996 Mar;46(3):237–41

Dose–dependent behavioural effects of two protein–free peptide derivatives on the passive avoidance reaction of rats. Hutter–Paier B, et al. **Arzneimittelforschung** 1996 Mar; 46(3):242–6

Suppression of lipopolysaccharide–induced impairment of active avoidance and interleukin–6–induced increase of prostaglandin E2 release in rats by indometacin. Ma TC, et al. **Arzneimittelforschung** 1997 May;47(5):595–7

No. 302, a newly synthesized [pGlu4,Cyt6]AVP(4–9) analogue, prevents the disruption of avoidance behavior. Hirate K, et al. **Behav Brain Res** 1997 Feb;83(1–2):205–8

Effects of selective catechol–O–methyltransferase inhibitors on single–trial passive avoidance retention in male rats. Khromova I, et al. **Behav Brain Res** 1997 Jun;86(1):49–57

Effects of low doses of physostigmine on avoidance learning and EEG in two strains of mice. Loizzo A, et al. **Behav Brain Res** 1996 Nov;81(1–2):155–61

The effects of extended training and acute administration of

an anxiolytic on avoidance learning and intertrial responding in the Syracuse strains of rats. Gendron CM, et al. **Behav Genet** 1996 Nov;26(6):575–80

The NMDA antagonist MK–801 blocks the extinction of Pavlovian fear conditioning. Baker JD, et al. **Behav Neurosci** 1996 Jun;110(3):618–20

Conditioned taste aversions and drugs of abuse: a reinterpretation. Grigson PS. **Behav Neurosci** 1997 Feb; 111(1):129–36

Inhibitory avoidance impairments induced by intra–amygdala propranolol are reversed by glutamate but not glucose. Lennartz RC, et al. **Behav Neurosci** 1996 Oct;110(5):1033–9

Lesions of the lateral parabrachial nucleus block the aversive motivational effects of both morphine and morphine withdrawal but spare morphine's discriminative properties. Nader K, et al. **Behav Neurosci** 1996 Dec;110(6):1496–502

LSD produces place preference and flavor avoidance but does not produce flavor aversion in rats. Parker LA. **Behav Neurosci** 1996 Jun;110(3):503–8

Long–term memory modulation by posttraining epinephrine in rats: differential effects depending on the basic learning capacity. Torras–Garcia M, et al. **Behav Neurosci** 1997 Apr; 111(2):301–8

Effects of selective muscarinic antagonists, pirenzepine and AF–DX 116, on passive avoidance tasks in mice. Ohnuki T, et al. **Biol Pharm Bull** 1996 Jun;19(6):814–8

1–[[[5–(4–Nitrophenyl)–2–furanyl]methylene]imino]–2,4–imidazolidinedione (dantrolene), an inhibitor of intracellular Ca2+ mobilization, impairs avoidance performance and spatial memory in mice. Ohnuki T, et al. **Biol Pharm Bull** 1996 Aug;19(8):1038–40

Peripherally administered GM–CSF interferes with scopolamine–induced amnesia in mice: involvement of interleukin–1. Bianchi M, et al. **Brain Res** 1996 Aug 12; 729(2):285–8

Opposite strain–dependent effects of post–training corticosterone in a passive avoidance task in mice: role of dopamine. Cabib S, et al. **Brain Res** 1996 Aug 5; 729(1):110–8

Bicuculline administered into the amygdala after training blocks benzodiazepine–induced amnesia. Dickinson–Anson H, et al. **Brain Res** 1997 Mar 28;752(1–2):197–202

Ethanol–induced state–dependent learning is mediated by 5–hydroxytryptamine3 receptors but not by N–methyl–D–aspartate receptor complex. Nakagawa Y, et al. **Brain Res** 1996 Jan 15;706(2):227–32

Intra–septal infusions of glucose potentiate inhibitory avoidance deficits when co–infused with the GABA agonist muscimol. Parent MB, et al. **Brain Res** 1997 Jan 16;745(1–2):317–20

Cholinergic improvement of a naturally–occurring memory deficit in the young rat. Smith RD, et al. **Brain Res** 1996 Jan 22;707(1):13–21

The decrease of serotonin release induced by a tryptophan–free amino acid diet does not affect spatial and passive avoidance learning. Stancampiano R, et al. **Brain Res** 1997 Jul 11;762(1–2):269–74

Effects of LY231617 and angiotensin IV on ischemia–induced deficits in circular water maze and passive avoidance performance in rats. Wright JW, et al. **Brain Res** 1996 Apr 22;717(1–2):1–11

Nerve growth factor affects passive avoidance learning and retention in developing mice. Ricceri L, et al. **Brain Res Bull** 1996;39(4):219–26

Inhibition of glutamine synthetase activity prevents memory consolidation. Gibbs ME, et al. **Brain Res Cogn Brain Res** 1996 Jul;4(1):57–64

Neonatal caffeine alters passive avoidance retention in rats in an age– and gender–related manner. Fisher S, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):145–9

The expression of both amphetamine–conditioned place preference and pentylenetetrazol–conditioned place aversion is attenuated by the NMDA receptor antagonist (+/–)–CPP. Bespalov AYu. **Drug Alcohol Depend** 1996 May;41(1):85–8

Effects of GABAB receptor antagonists on learning and memory retention in a rat model of absence epilepsy. Getova D, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):9–13

U–50488H, a selective kappa–opioid receptor agonist, improves carbon monoxide–induced delayed amnesia in mice. Hiramatsu M, et al. **Eur J Pharmacol** 1996 Nov 14; 315(2):119–25

Itasetron (DAU 6215) prevents age–related memory deficits in the rat in a multiple choice avoidance task. Pitsikas N, et al. **Eur J Pharmacol** 1996 Sep 12;311(2–3):115–9

Effects of combined chronic nimodipine and acute metrifonate treatment on spatial and avoidance behavior. Riekkinen M, et al. **Eur J Pharmacol** 1997 Mar 12; 322(1):1–9

Metrifonate improves spatial navigation and avoidance behavior in scopolamine–treated, medial septum–lesioned and aged rats. Riekkinen P Jr, et al. **Eur J Pharmacol** 1996 Aug 8;309(2):121–30

Excessive serotonin release, not depletion, leads to memory impairments in rats. Santucci AC, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):7–17

Ameliorating effect of SA4503, a novel sigma 1 receptor agonist, on memory impairments induced by cholinergic dysfunction in rats. Senda T, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):1–10

Mecamylamine–precipitated nicotine–withdrawal aversion in rats. Suzuki T, et al. **Eur J Pharmacol** 1996 Oct 31; 314(3):281–4

Successive negative contrast in one–way avoidance: effect of thiopental sodium and chlorpromazine. Torres C, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):269–75

Systemic administration of dynorphin A–(1–13) markedly improves cycloheximide–induced amnesia in mice. Ukai M, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):11–5

Attenuation of memory with Tyr–D–Arg–Phe–beta–Ala–NH2, a novel dermorphin analog with high affinity for mu–opioid receptors. Ukai M, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):245–9

Effects of the dopamine D3 receptor agonist, R(+)–7–hydroxy–N,N–di–n–propyl–2–aminotetralin, on memory processes in mice. Ukai M, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):147–51

Effects of nicotine on memory retrieval in mice. Zarrindast MR, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):1–6

Memory–enhancing effects of benzodiazepines in mice. Voigt JP, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):253–5

Enhancement of antipsychotic–like properties of the dopamine D2 receptor antagonist, raclopride, by the additional treatment with the 5–HT2 receptor blocking agent, ritanserin, in the rat. Wadenberg ML, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):305–10

Multielemental stimulus control: effects of saccharin concentration on a discriminated morphine–saccharin taste aversion. Lamb RJ, et al. **Exp Clin Psychopharmacol** 1997 May;5(2):123–9

Behavorial responses to the 5–HT1A receptor antagonist NAN190 injected into rat CA1 hippocampal area. Belcheva I, et al. **Gen Pharmacol** 1997 Mar;28(3):435–41

Effect of physostigmine and verapamil on active avoidance in an experimental model of Alzheimer's disease. Popović M, et al. **Int J Neurosci** 1997 Jun;90(1–2):87–97

Effect of prenatal aluminium lactate exposure on conditioned taste aversion and passive avoidance task in the rat. Gonda Z, et al. **J Appl Toxicol** 1996 Nov–Dec;16(6):529–32

Pharmacological activity of Guarana (Paullinia cupana Mart.) in laboratory animals. Espinola EB, et al. **J Ethnopharmacol** 1997 Feb;55(3):223–9

Gastrodin and p–hydroxybenzyl alcohol facilitate memory consolidation and retrieval, but not acquisition, on the passive avoidance task in rats. Hsieh MT, et al. **J Ethnopharmacol** 1997 Mar;56(1):45–54

Effects of neonatal clomipramine on cholinergic receptor sensitivity and passive avoidance behavior in adult rats. Prathiba J, et al. **J Neural Transm Gen Sect** 1995; 100(2):93–9

Genetic differences in behavioral sensitivity to a neuroactive steroid. Finn DA, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):820–8

Effect of pinealectomy and melatonin on vasopressin–potentiated passive avoidance in rats. Juszczak M, et al. **J Physiol Pharmacol** 1996 Dec;47(4):621–7

Continuous infusion of beta–amyloid protein into the rat cerebral ventricle induces learning impairment and neuronal and morphological degeneration. Nitta A, et al. **Jpn J Pharmacol** 1997 Jan;73(1):51–7

Footshock facilitates discrimination of stimulus properties of morphine. Borlongan CV, et al. **Life Sci** 1997;61(11):1045–9

Effects of clobenpropit (VUF–9153), a histamine H3–receptor antagonist, on learning and memory, and on cholinergic and monoaminergic systems in mice. Miyazaki S, et al. **Life Sci** 1997;61(4):355–61

Effects of thioperamide on the cholinergic system and the step–through passive avoidance test in mice. Miyazaki S, et al. **Methods Find Exp Clin Pharmacol** 1995 Dec; 17(10):653–8

Clozapine–induced cognitive dysfunction in mice. Ninan I, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul–Aug; 18(6):367–72

Effects of ondansetron on short–term memory retrieval in mice. Roychoudhury M, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan–Feb;19(1):43–6

Effects of chronic infusion of nerve growth factor (NGF) in AF64A–lesioned rats. Fernández CI, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):175–9

Effect of ganglioside (GM1) on memory in senescent rats. Silva RH, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):583–6

Chicks injected with antisera to either S–100 alpha or S–100 beta protein develop amnesia for a passive avoidance task. O'Dowd BS, et al. **Neurobiol Learn Mem** 1997 May; 67(3):197–206

Effects of regional GABAergic blockade of the striatum on memory consolidation. Salado–Castillo R, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):102–8

D–cycloserine causes transient enhancement of memory for a weak aversive stimulus in day–old chicks (Gallus domesticus). Steele RJ, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):236–40

Apparent vs real effects of scopolamine on the learning of an active avoidance task. Vinader–Caerols C, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):246–51

Inhibition of intermediate–term memory following passive avoidance training in neonate chicks by a presynaptic cholinergic blocker. Zhao WQ, et al. **Neurobiol Learn Mem** 1997 May;67(3):207–13

Developmental lead exposure and two–way active avoidance training alter the distribution of protein kinase C activity in the rat hippocampus. Chen HH, et al. **Neurochem Res** 1997 Sep;22(9):1119–25

Nefiracetam (DM–9384) reverses apomorphine–induced amnesia of a passive avoidance response: delayed emergence of the memory retention effects. Doyle E, et al. **Neurochem Res** 1996 Jun;21(6):649–52

The neurosteroid pregnenolone sulfate blocks deficits induced by a competitive NMDA antagonist in active avoidance and lever–press learning tasks in mice. Mathis C, et al. **Neuropharmacology** 1996;35(8):1057–64

Indeloxazine hydrochloride improves impairment of passive avoidance performance after fluid percussion brain injury in rats. Yamaguchi T, et al. **Neuropharmacology** 1996 Mar; 35(3):329–36

Uncompetitive NMDA receptor antagonists attenuate NMDA–induced impairment of passive avoidance learning and LTP. Zajaczkowski W, et al. **Neuropharmacology** 1997 Jul;36(7):961–71

Further evidence for the involvement of a hippocampal cGMP/cGMP–dependent protein kinase cascade in memory consolidation. Bernabeu R, et al. **Neuroreport** 1997 Jul 7;8(9–10):2221–4

Interleukin–6 affects scopolamine–induced amnesia, but not brain amino acid levels in mice. Bianchi M, et al. **Neuroreport** 1997 May 6;8(7):1775–8

Antisense oligodeoxynucleotides to c–fos are amnestic for passive avoidance in the chick. Mileusnic R, et al. **Neuroreport** 1996 May 17;7(7):1269–72

Oestradiol–induced taste avoidance is the result of a conditioned palatability shift. Ossenkopp KP, et al. **Neuroreport** 1996 Nov 4;7(15–17):2777–80

GMP reverses the facilitatory effect of glutamate on inhibitory avoidance task in rats. Rubin MA, et al. **Neuroreport** 1996 Sep 2;7(13):2078–80

Effect of apamin, a selective blocker of Ca2+–activated K+–channel, on habituation and passive avoidance responses in rats. Deschaux O, et al. **Neurosci Lett** 1997 May 9;227(1):57–60

The effect of social learning on a conditioned avoidance response of rats treated prenatally with aluminum lactate. Gonda Z, et al. **Neurotoxicol Teratol** 1997 Jan–Feb; 19(1):59–63

Effects of prenatal ethanol exposure and early experience on radial maze performance and conditioned taste aversion in mice. Opitz B, et al. **Neurotoxicol Teratol** 1997 May–Jun; 19(3):185–90

Domoic acid: neurobehavioral and neurohistological effects of low–dose exposure in adult rats. Sobotka TJ, et al. **Neurotoxicol Teratol** 1996 Nov–Dec;18(6):659–70

Neurotoxicity induced by prenatal aluminum exposure in rats. Gonda Z, et al. **Neurotoxicology** 1996 Summer;17(2):459–69

Inorganic lead as a developmental neurotoxicant: some basic issues and the Düsseldorf experience. Winneke G. **Neurotoxicology** 1996 Fall–Winter;17(3–4):565–80 (91 ref.)

Passive avoidance learning in the day–old chick is modulated by GABAergic agents. Clements MP, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):629–34

Effect of folate deficiency and folate and B12 excess on memory functioning in young chicks. Crowe SF, et al. **Pharmacol Biochem Behav** 1997 Feb;56(2):189–97

Evaluation of perinatal flumazenil effects on the behavior of female RLA/Verh rats in anxiety tests and shuttle box avoidance. Ferré P, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):475–80

Concurrent positive and negative goalbox events produce runway behaviors comparable to those of cocaine–reinforced rats. Geist TD, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):145–50

Suppression of the acquisition of conditioned avoidance behavior in the rat by 3–methylcholanthrene. Konstandi M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):637–41

Aversive effects of the synthetic cannabinoid CP 55,940 in rats. McGregor IS, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):657–64

Conditioned taste aversion is a confound in behavioral studies that report a reduction in the reinforcing effects of drugs. Pizzi WJ, et al. **Pharmacol Biochem Behav** 1996 Feb; 53(2):243–7

Nitric oxide synthase inhibition impairs spatial navigation learning and induces conditioned taste aversion. Prendergast MA, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):347–52

Effects of St–587 and prazosin on water maze and passive avoidance performance of scopolamine–treated rats. Puumala T, et al. **Pharmacol Biochem Behav** 1996 Sep; 55(1):107–15

Facilitation of passive avoidance response by newly synthesized cationized arginine vasopressin fragment 4–9 in rats. Tanabe S, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):251–6

Nimodipine on shuttle–box avoidance learning in mice: no impairment but slight improvement. Vetulani J, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):577–81

Ginkgo biloba extract (EGb 761) independently improves changes in passive avoidance learning and brain membrane fluidity in the aging mouse. Stoll S, et al. **Pharmacopsychiatry** 1996 Jul;29(4):144–9

The effects of amylin on motivated behavior in rats. Kovács AM, et al. **Physiol Behav** 1996 Jul;60(1):183–6

Conditioned taste aversion induced by fluoxetine. Prendergast MA, et al. **Physiol Behav** 1996 Jul;60(1):311–5

Role of taste aversion in calcium channel inhibitor–induced suppression of saccharin and alcohol drinking in rats. Pucilowski O, et al. **Physiol Behav** 1996 Feb;59(2):319–24

Reduction of the scopolamine–induced impairment of

passive-avoidance performance by sigma receptor agonist in mice. Senda T, et al. **Physiol Behav** 1997 Feb; 61(2):257-64

Effects of Gastrodia elata and its active constituents on scopolamine-induced amnesia in rats. Wu CR, et al. **Planta Med** 1996 Aug;62(4):317-21

Effects of trophic factors on the CNS cholinergic phenotype. Cuello AC. **Prog Brain Res** 1996;109:347-58 (59 ref.)

Amyloid beta-peptides injection into the cholinergic nuclei: morphological, neurochemical and behavioral effects. Pepeu G, et al. **Prog Brain Res** 1996;109:273-82

Genetic differences in naloxone enhancement of ethanol-induced conditioned taste aversion. Broadbent J, et al. **Psychopharmacology (Berl)** 1996 Jul;126(2):147-55

Alpha 2-adrenoceptor antagonists potentiate acetylcholinesterase inhibitor effects on passive avoidance learning in the rat. Camacho F, et al. **Psychopharmacology (Berl)** 1996 Apr;124(4):347-54

Strain-dependent effects of cocaine on memory storage improvement induced by post-training physostigmine. Castellano C, et al. **Psychopharmacology (Berl)** 1996 Feb; 123(4):340-5

Isolation impairs place preference conditioning to morphine but not aversive learning in mice. Coudereau JP, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):117-23

Behavioural profiles of the reversible monoamine-oxidase-A inhibitors befloxatone and moclobemide in an experimental model for screening anxiolytic and anti-panic drugs. Griebel G, et al. **Psychopharmacology (Berl)** 1997 May; 131(2):180-6

NNC-19-1228 and NNC 22-0031, novel neuroleptics with a "mesolimbic-selective" behavioral profile. Nielsen EB, et al. **Psychopharmacology (Berl)** 1997 Jan;129(2):168-78

Effects of dopamine antagonists in a two-way active avoidance procedure in rats: interactions with 8-OH-DPAT, ritanserin, and prazosin. Prinssen EP, et al. **Psychopharmacology (Berl)** 1996 Nov;128(2):191-7

Effects of long-term ganglioside GM1 administration on a new discriminative avoidance test in normal adult mice. Silva RH, et al. **Psychopharmacology (Berl)** 1997 Feb; 129(4):322-8

Reproductive effects of chronic administration of murine interferon-gamma. Bussiere JL, et al. **Reprod Toxicol** 1996 Sep-Oct;10(5):379-91

Behavioural activity of angiotensin II (3-7)4Phe--analogue of natural fragment 3-7 of angiotensin II. Holy Z, et al. **Rocz Akad Med Bialymst** 1996;41(2):191-201

Immunological induction of flavour aversion in mice. II. Passive/adoptive transfer and pharmacological inhibition. Cara DC, et al. **Scand J Immunol** 1997 Jan;45(1):16-20

[Effects of kamikihi-to on ovariectomy-induced changes in behavior and circulation in rats] Shimamura M, et al. **Nippon Yakurigaku Zasshi** 1996 Aug;108(2):65-75 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Neurobiological constraints on behavioral models of motivation. Nader K, et al. **Annu Rev Psychol** 1997; 48:85-114 (165 ref.)

Ipsilateral connections between the gustatory cortex, amygdala and parabrachial nucleus are necessary for acquisition and retrieval of conditioned taste aversion in rats. Bielavska E, et al. **Behav Brain Res** 1996 Nov; 81(1-2):25-31

Systemic administration of anti-NGF antibodies to neonatal mice impairs 24-h retention of an inhibitory avoidance task while increasing ChAT immunoreactivity in the medial septum. Calamandrei G, et al. **Behav Brain Res** 1996 Aug; 78(2):81-91

Avoidance and classical conditioning of leg flexion in dogs. Cassady JM. **Behav Brain Res** 1996 May;77(1-2):79-99

Neural substrates of discriminative avoidance learning and classical eyeblink conditioning in rabbits: a double dissociation. Gabriel M, et al. **Behav Brain Res** 1996 Dec; 82(1):23-30

The nomadic engram: overtraining eliminates the impairment of discriminative avoidance behavior produced by limbic thalamic lesions. Hart M, et al. **Behav Brain Res** 1997 Jan; 82(2):169-77

Transient impairment of cholinergic function in the rat insular cortex disrupts the encoding of taste in conditioned taste aversion. Naor C, et al. **Behav Brain Res** 1996 Sep; 79(1-2):61-7

Tuberomammillary nucleus lesion facilitates two-way active avoidance retention in rats. Segura-Torres P, et al. **Behav Brain Res** 1996 Dec;82(1):113-7

Active and passive avoidance learning in rats neonatally treated with intraventricular 6-hydroxydopamine. Takasuna M, et al. **Behav Brain Res** 1996 Jan; 74(1-2):119-26

Comparison of compound and cross-modal training on postoperative visual relearning of visual decorticate rats. Tran TD, et al. **Behav Brain Res** 1996 Sep;79(1-2):137-43

The effects of cooling the area postrema of male rats on conditioned taste aversions induced by LiCl and apomorphine. Wang Y, et al. **Behav Brain Res** 1997 Jan; 82(2):149-58

Antipredator behavior in paradise fish (Macropodus opercularis) larvae: the role of genetic factors and paternal influence. Miklósi A, et al. **Behav Genet** 1997 May; 27(3):191-200

Induction of receptive field plasticity in the auditory cortex of the guinea pig during instrumental avoidance conditioning. Bakin JS, et al. **Behav Neurosci** 1996 Oct; 110(5):905-13

Evidence for localized and discrete roles for enkephalins during memory formation in the chick. Colombo PJ, et al. **Behav Neurosci** 1997 Feb;111(1):114-22

Brainstem lesions and gustatory function: III. The role of the nucleus of the solitary tract and the parabrachial nucleus in retention of a conditioned taste aversion in rats. Grigson PS, et al. **Behav Neurosci** 1997 Feb;111(1):180-7

Brainstem lesions and gustatory function: II. The role of the nucleus of the solitary tract in Na+ appetite, conditioned taste aversion, and conditioned odor aversion in rats. Grigson PS, et al. **Behav Neurosci** 1997 Feb;111(1):169-79

Disturbances of neophobia and taste-aversion learning after bilateral kainate microlesions in the rat pallidum. Hernadi I, et al. **Behav Neurosci** 1997 Feb;111(1):137-46

Tail-flick test: II. The role of supraspinal systems and avoidance learning. King TE, et al. **Behav Neurosci** 1997 Aug;111(4):754-67

LSD produces place preference and flavor avoidance but does not produce flavor aversion in rats. Parker LA. **Behav Neurosci** 1996 Jun;110(3):503-8

Gustatory thalamus lesions in the rat: II. Aversive and appetitive taste conditioning. Reilly S, et al. **Behav Neurosci** 1996 Aug;110(4):746-59

First-order projections activated by stimulation of hypothalamic sites eliciting attack and flight in rats. Roberts WW, et al. **Behav Neurosci** 1996 Jun;110(3):509-27

Chorda tympani nerve transection disrupts taste aversion learning to potassium chloride, but not sodium chloride. St. John SJ, et al. **Behav Neurosci** 1997 Feb;111(1):188-94

Gustatory functions, sodium appetite, and conditioned taste aversion survive excitotoxic lesions of the thalamic taste area. Scalera G, et al. **Behav Neurosci** 1997 Jun; 111(3):633-45

Taste aversion learning in fyn mutant mice. Schafe GE, et al. **Behav Neurosci** 1996 Aug;110(4):845-8

The role of performance factors in the active avoidance-conditioning deficit in autoimmune mice. Schrott LM, et al. **Behav Neurosci** 1996 Jun;110(3):486-91

Brainstem lesions and gustatory function: I. The role of the nucleus of the solitary tract during a brief intake test in rats. Shimura T, et al. **Behav Neurosci** 1997 Feb; 111(1):155-68

Disruption of the dopamine beta-hydroxylase gene in mice suggests roles for norepinephrine in motor function, learning, and memory. Thomas SA, et al. **Behav Neurosci** 1997 Jun;111(3):579-89

Cooling the area postrema induces conditioned taste aversions in male rats and blocks acquisition of LiCl-induced aversions. Wang Y, et al. **Behav Neurosci** 1997 Aug;111(4):768-76

Behavioral sensitivity of the European blind cave salamander, Proteus anguinus, and a Pyrenean newt, Euproctus asper, to electrical fields in water. Schlegel PA. **Brain Behav Evol** 1997;49(3):121-31

Insular cortex lesions impair the acquisition of conditioned immunosuppression. Ramírez-Amaya V, et al. **Brain Behav Immun** 1996 Jun;10(2):103-14

Synaptic terminals immunolabelled against glutamate in the lobus parolfactorius of domestic chicks (Gallus domesticus) in relation to afferents from the archistriatum. Csillag A, et al. **Brain Res** 1997 Mar 7;750(1-2):171-9

Subdiaphragmatic vagotomy does not attenuate c-Fos induction in the nucleus of the solitary tract after conditioned taste aversion expression. Houpt TA, et al. **Brain Res** 1997 Jan 30;747(1):85-91

Long-term potentiation in the rat hippocampal CA1 region is inhibited selectively at the acquisition stage of discriminatory avoidance learning. Izaki Y, et al. **Brain Res** 1996 Jun 3;723(1-2):162-8

Role of dorsal hippocampus in acquisition, consolidation and retrieval of rat's passive avoidance response: a tetrodotoxin functional inactivation study. Lorenzini CA, et al. **Brain Res** 1996 Aug 19;730(1-2):32-9

Recovery of taste aversion learning induced by fetal neocortex grafts: correlation with in vivo extracellular acetylcholine. Miranda MI, et al. **Brain Res** 1997 Jun 6; 759(1):141-8

Forebrain contribution to the induction of a brainstem correlate of conditioned taste aversion: I. The amygdala. Schafe GE, et al. **Brain Res** 1996 Nov 25;741(1-2):109-16

The effects of behavioral tasks on the in vitro phosphorylation of intermediate filament subunits of rat hippocampus are mediated by CaMKII and PKA. Schröder N, et al. **Brain Res** 1997 Feb 28;749(2):275-82

Inhibitory avoidance learning alters the amygdala calcium/calmodulin-dependent protein kinase II activity in rats. Tan SE, et al. **Brain Res** 1997 Feb 14; 748(1-2):227-33

Mechanism of colchicine impairment on learning and memory, and protective effect of CGP36742 in mice. Yu Z, et al. **Brain Res** 1997 Mar 7;750(1-2):53-8

Dextromethorphan ameliorates effects of neonatal hypoxia on brain morphology and seizure threshold in rats. Laroia N, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):29-34

Enhanced hippocampal corticotropin-releasing factor gene expression associated with memory consolidation and memory storage in rats. Lee EH, et al. **Chin J Physiol** 1996; 39(3):197-203

p-Hydroxybenzyl alcohol attenuates learning deficits in the inhibitory avoidance task: involvement of serotonergic and dopaminergic systems. Wu CR, et al. **Chin J Physiol** 1996; 39(4):265-73

Spectral characteristics of heart period variability during cold face stress and shock avoidance in normal subjects. Friedman BH, et al. **Clin Auton Res** 1996 Jun;6(3):147-52

Sequential role of hippocampus and amygdala, entorhinal cortex and parietal cortex in formation and retrieval of memory for inhibitory avoidance in rats. Izquierdo I, et al. **Eur J Neurosci** 1997 Apr;9(4):786-93

Differential frequency conditioning enhances spectral contrast sensitivity of units in auditory cortex (field Al) of the alert Mongolian gerbil. Ohl FW, et al. **Eur J Neurosci** 1996 May;8(5):1001-17

Dissociations in hippocampal 5-hydroxytryptamine release in the rat following Pavlovian aversive conditioning to discrete and contextual stimuli. Wilkinson LS, et al. **Eur J Neurosci** 1996 Jul;8(7):1479-87

Interactive processing between glutamatergic and cholinergic systems involved in inhibitory avoidance learning of rats. Ohno M, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):145-7

Slow potentials, event-related potentials, "gamma-band" activity, and motor responses during aversive conditioning in humans. Flor H, et al. **Exp Brain Res** 1996 Nov; 112(2):298-312

Lesions of the entorhinal cortex disrupt behavioral and neuronal responses to context change during extinction of discriminative avoidance behavior. Freeman JH Jr, et al. **Exp Brain Res** 1997 Jul;115(3):445-57

Anticipatory locomotor adjustments for accommodating versus avoiding level changes in humans. McFadyen BJ, et al. **Exp Brain Res** 1997 May;114(3):500-6

Failure in learning task and loss of cortical cholingergic fibers in microsphere-embolized rats. Takagi N, et al. **Exp Brain Res** 1997 Apr;114(2):279-87

Distribution of glutamine synthetase in the chick forebrain: implications for passive avoidance memory formation. O'Dowd BS, et al. **J Hirnforsch** 1997;38(2):147-52

Alpha-helical CRF blocks differential influence of corticotropin releasing factor (CRF) on appetitive and aversive memory retrieval in rats. Kumar KB, et al. **J Neural Transm** 1996;103(8-9):1117-26

Learning impairment and cholinergic deafferentation after cortical nerve growth factor deprivation. Gutiérrez H, et al. **J Neurosci** 1997 May 15;17(10):3796-803

Amygdalar lesions block discriminative avoidance learning and cingulothalamic training-induced neuronal plasticity in rabbits. Poremba A, et al. **J Neurosci** 1997 Jul 1; 17(13):5237-44

Cell adhesion molecules and the transition from short- to long-term memory. Rose SP. **J Physiol Paris** 1996; 90(5-6):387-91 (37 ref.)

Effects of chronic infusion of nerve growth factor (NGF) in rats with nucleus basalis magnocellularis lesion. Fernández CI, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1-3):181-4

Synaptic transmission and plasticity in the amygdala. An emerging physiology of fear conditioning circuits. Maren S. **Mol Neurobiol** 1996 Aug;13(1):1-22 (140 ref.)

No association between the serotonin transporter gene regulatory region polymorphism and the Tridimensional Personality Questionnaire (TPQ) temperament of harm avoidance. Ebstein RP, et al. **Mol Psychiatry** 1997 May; 2(3):224-6

Inhibitory avoidance and appetitive learning in aged normal mice: comparison with transgenic mice having elevated plasma growth hormone levels. Meliska CJ, et al. **Neurobiol Learn Mem** 1997 Jul;68(1):1-12

Paradoxical sleep deprivation and sleep recording following training in a brightness discrimination avoidance task in Sprague-Dawley rats: paradoxical effects. Smith C. **Neurobiol Learn Mem** 1996 Nov;66(3):283-94

Effects of habenular lesions upon two-way active avoidance conditioning in rats. Vale-Martínez A, et al. **Neurobiol Learn Mem** 1997 Jul;68(1):68-74

Active avoidance learning using brain stimulation applied to the inferior colliculus as negative reinforcement in rats: evidence for latent inhibition. Brandão ML, et al. **Neuropsychobiology** 1997;35(1):30-5

Hippocampal cGMP and cAMP are differentially involved in memory processing of inhibitory avoidance learning. Bernabeu R, et al. **Neuroreport** 1996 Jan 31;7(2):585-8

Neural cell adhesion molecules play a role in rat memory formation in appetitive as well as aversive tasks. Roullet P, et al. **Neuroreport** 1997 May 27;8(8):1907-11

Rat gustatory memory requires protein kinase C activity in the amygdala and cortical gustatory area. Yasoshima Y, et al. **Neuroreport** 1997 Apr 14;8(6):1363-7

Participation of cholinergic systems of the dorsal and ventral striatum in the training of rats to avoidance in a T-maze. Khudova GG, et al. **Neurosci Behav Physiol** 1996 Jul-Aug; 26(4):321-3

Participation cholinergic systems of the dorsal and ventral striatum in the training of rats to avoidance in a T-maze. Shapalova KB, et al. **Neurosci Behav Physiol** 1996 Jul-Aug; 26(4):288-94

Enhancement of an inhibitory input to the feeding central pattern generator in Lymnaea stagnalis during conditioned taste-aversion learning. Kojima S, et al. **Neurosci Lett** 1997 Jul 25;230(3):179-82

Interleukin-6 prevents ischemia-induced learning disability and neuronal and synaptic loss in gerbils. Matsuda S, et

al. **Neurosci Lett** 1996 Feb 2;204(1–2):109–12
Relationship of impaired brain glucose metabolism to learning deficit in the senescence-accelerated mouse. Ohta H, et al. **Neurosci Lett** 1996 Oct 11;217(1):37–40
Selective M1 muscarinic receptor antagonists disrupt memory consolidation of inhibitory avoidance in rats. Roldán G, et al. **Neurosci Lett** 1997 Jul 18;230(2):93–6
Endogenous cannabinoids as an aversive or counter-rewarding system in the rat. Sañudo-Peña MC, et al. **Neurosci Lett** 1997 Feb 21;223(2):125–8
Quantitative changes of dendrites in rat dentate gyrus and basal nucleus of Meynert after passive avoidance training in the neonatal period. Vozeh F, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):21–4
Transient, learning-induced ultrastructural change in spatially-clustered dentate granule cells of the adult rat hippocampus. O'Connell C, et al. **Neuroscience** 1997 Jan; 76(1):55–62
Fear and avoidance in dysfunctional chronic back pain patients. Asmundson GJ, et al. **Pain** 1997 Feb;69(3):231–6
Optokinetic rotation-induced taste aversions correlate with over-all symptoms of motion sickness in humans. Hu S, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):859–64
Precipitated morphine withdrawal induces a conditioned aversion in the preweaning rat. Barr GA, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):779–83
Effect of age on pentylenetetrazol-kindling and kindling-induced impairments of learning performance. Grecksch G, et al. **Pharmacol Biochem Behav** 1997 Apr; 56(4):595–601
Ethanol preference, metabolism, blood pressure, and conditioned taste aversion in experimental cholestasis. Lane JR, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):755–66
Prenatal protein malnutrition affects avoidance but not escape behavior in the elevated T-maze test. Almeida SS, et al. **Physiol Behav** 1996 Jul;60(1):191–5
EEG arousal, sympathetic activity, and brown adipose tissue thermogenesis after conditioned taste aversion. Amaro S, et al. **Physiol Behav** 1996 Jul;60(1):71–5
Extinction of a conditioned taste aversion in rats: II. Neural effects in the nucleus of the solitary tract. McCaughey SA, et al. **Physiol Behav** 1997 Mar;61(3):373–9
The locus of origin of augmenting and reducing of visual evoked potentials in rat brain. Siegel J, et al. **Physiol Behav** 1996 Jul;60(1):287–91
Retention of conditioned taste aversion to NaCl after chorda tympani transection in Fischer 344 and Wistar rats. Sollars SI, et al. **Physiol Behav** 1996 Jul;60(1):65–9
Behavioral differences between outbred Wistar, inbred Fischer 344, brown Norway, and hybrid Fischer 344 x brown Norway rats. van der Staay FJ, et al. **Physiol Behav** 1996 Jul;60(1):97–109
Baseline transition sleep and associated sleep episodes are related to the learning ability of rats. Vescia S, et al. **Physiol Behav** 1996 Dec;60(6):1513–25
An ear for quality: differential associative characteristics of taste-potentiated auditory and odor avoidance. von Kluge S, et al. **Physiol Behav** 1996 Aug;60(2):331–9
Progressive decline in avoidance learning paralleled by inflammatory neurodegeneration in transgenic mice expressing interleukin 6 in the brain. Heyser CJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1500–5
Emotional networks and motor control: a fearful view. LeDoux J. **Prog Brain Res** 1996;107:437–46 (82 ref.)
Free radicals and taste aversion learning in the rat: nitric oxide, radiation and dopamine. Rabin BM. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 May; 20(4):691–707
Behavioural and physiological consequences of a single social defeat in Roman high- and low-avoidance rats. Meerlo P, et al. **Psychoneuroendocrinology** 1997 Apr;22(3):155–68
Alterations of beta-endorphin-like immunoreactivity in CSF following behavioral training using a passive avoidance procedure. Wan RQ, et al. **Psychoneuroendocrinology** 1996 Aug;21(6):503–13
Immunological induction of flavour aversion in mice. II. Passive/adoptive transfer and pharmacological inhibition. Cara DC, et al. **Scand J Immunol** 1997 Jan;45(1):16–20
[Postnatal stress enhances impairment of bilateral avoidance learning in mature rats with fetal alcohol syndrome] Trofimov SS, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):302–4 **(Rus)**
[The conditioned-reflex reaction of the sympathoadrenal system to an aversive taste stimulus] Kassil' VG, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):57–65 (Eng. Abstr.) **(Rus)**
[The interaction of a state of haloperidol-induced catalepsy and a passive-avoidance conditioned reflex] Bazian AS, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul–Aug; 46(4):787–94 (Eng. Abstr.) **(Rus)**
[The effect of emotional stress on the behavioral and endocrine indices of rats selected for their contrasting capacities for active avoidance] Galeeva AIu, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):929–36 (Eng. Abstr.) **(Rus)**
[The role of G-proteins and second messenger systems in the plasticity of the avoidance reflex in the snail] Grinkevich LN, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):886–92 (Eng. Abstr.) **(Rus)**
[An aversive olfactory signal during the Y-maze learning of mice selected for greater or lesser brain weight] Kholmanskikh SS, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):527–32 (Eng. Abstr.) **(Rus)**
[The pain sensitivity thresholds of rats genetically selected for their rate of active avoidance acquisition] Zhukov DA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan–Feb; 47(1):167–9 **(Rus)**

RADIATION EFFECTS

Effect of cerebellar granule cell depletion on spatial learning and memory and in an avoidance conditioning task: studies in postnatally X-irradiated rats. Le Marec N, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):20–8

AVULSED TOOTH see **TOOTH AVULSION**

AWARDS AND PRIZES

Abraham Flexner Award for distinguished service to medical education. **Acad Med** 1997 Feb;72(2):121
David E. Rogers Award. **Acad Med** 1997 Feb;72(2):122
Baxter Award for distinguished research in the biomedical sciences. **Acad Med** 1997 Feb;72(2):122–3
Alpha Omega Alpha Distinguished Teacher Award for senior faculty in the clinical sciences. **Acad Med** 1997 Feb; 72(2):124–5
Alpha Omega Alpha Distinguished Teacher Award for senior faculty in the basic sciences. **Acad Med** 1997 Feb; 72(2):125
Alpha Omega Alpha Distinguished Teacher Award for junior faculty in the clinical sciences. **Acad Med** 1997 Feb; 72(2):125–6
The Harry W. Fischer Lecture Session. Contrast Media: a meandering look. Sovak M. **Acad Radiol** 1996 Aug;3 Suppl 2:S241–7
The Radiometer Prize 1995 [editorial] Viby-Mogensen J. **Acta Anaesthesiol Scand** 1996 May;40(5):509
Tryptophan, oxygenase, and sleep. Hayaishi O. **Adv Exp Med Biol** 1996;398:3–11, vi
John Strainer, 1996 recipient of the Cornelius Dyke Award. Haughton VM, et al. **AJNR Am J Neuroradiol** 1997 Jan; 18(1):189
The 1996 RSA Distinguished Research Award Lecture. A genetic animal model of alcohol withdrawal. Crabbe JC. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):96A–100A
National Dairy Council Award for Excellence in Medical/Dental Nutrition Education Lecture, 1996: nutrition education—success or failure? Gershoff SN. **Am J Clin Nutr** 1996 Nov;64(5):809–12
Public relations for the Medical Examiner's Office. Speech delivered September 27, 1994, Charleston, South Carolina, USA, on receiving the Helpern Laureate Award. Coe JI. **Am J Forensic Med Pathol** 1997 Mar;18(1):26–32
Medical miracles of the Olympic Games. Mallon W. **Am J Sports Med** 1996;24(6 Suppl):S61–3
The 1996 Fred W. Stewart Award. Lance A. Liotta, M.D., Ph.D., Recipient of the 1996 Fred W. Stewart Award. Cordon-Cardo C. **Am J Surg Pathol** 1997 Feb;21(2):249
John Foxton Ross Kerr, M.B., PH.D., recipient of the 1995 Fred W. Stewart Award. Sternberg SS. **Am J Surg Pathol** 1996 Mar;20(3):380–1
The 1996 Bigelow Award of the Boston Surgical Society: Henry Jacob Bigelow and David C. Sabiston, Jr. Wheeler HB. **Ann Surg** 1997 Aug;226(2):146–52
Jack Hildes Medal in Circumpolar Health. Lynge I, et al. **Arctic Med Res** 1996 Oct;55(4):206–7
Muscular endurance and flexibility components of the Singapore National Physical Fitness Award. Schmidt GJ. **Aust J Sci Med Sport** 1995 Dec;27(4):88–94
Fishing in the stream of diabetes: from measuring insulin to the control of fetal organogenesis. Hales CN, et al. **Biochem Soc Trans** 1996 May;24(2):341–50
1996 Carl G. Hartman Award. Virendra B. Mahesh. **Biol Reprod** 1997 Feb;56(2):337–8
SSR Research Award. Eli Y. Adashi. **Biol Reprod** 1997 Feb; 56(2):338
Distinguished Service Award. Billy N. Day. **Biol Reprod** 1997 Feb;56(2):338–9
Klaus Schwarz Medal recipient for 1995. Schrauzer GN. **Biol Trace Elem Res** 1996 Feb;51(2):i–ii
Contemporary natural product chemistry. Dedicated to Professor Alan R. Battersby and Professor A. Ian Scott, recipients of the 1995 Tetrahedron Prize for Creativity in Organic Chemistry. **Bioorg Med Chem** 1996 Jul; 4(7):937–1165
Reflections on the QDA [editorial] Grace M. **Br Dent J** 1996 Mar 9;180(5):161
Citation for the presentation of the Down Surgical Prize 1995 to John Llewellyn Williams. Leopard PJ. **Br J Oral Maxillofac Surg** 1997 Apr;35(2):144
Citation for the presentation of the De Puy Prize 1996 to Mr David Patton. Stassen L. **Br J Oral Maxillofac Surg** 1997 Apr;35(2):145
Peter James Leopard: Down Surgical Prize. Williams JL. **Br J Oral Maxillofac Surg** 1996 Dec;34(6):535–6
Physiotherapy report. Booth L. **Br J Sports Med** 1997 Mar; 31(1):80–1
Diet and nutrition. Griffin J. **Br J Sports Med** 1997 Mar; 31(1):78
Psychological support. Terry P, et al. **Br J Sports Med** 1997 Mar;31(1):79
Presentation of the Margaret E. Mahoney Award. **Bull N Y Acad Med** 1996 Winter;73(2 Suppl):598–606
Canadian Anaesthetists' Society Gold Medal. Sellery GR. **Can J Anaesth** 1996 Dec;43(12):1273–4 **(Eng, Fre)**
MacLean-Mueller Prize [editorial; comment] Meakins JL. **Can J Surg** 1997 Apr;40(2):86. Comment on: Can J Surg 1997 Apr;40(2):90–100.
Cortical Discoverer Prize: Dr Edward White. **Cereb Cortex** 1997 Jul–Aug;7(5):473
The Cortical Scholar Prize: Dr Adam H. Gazzaley. **Cereb Cortex** 1997 Jul–Aug;7(5):472
The Cortical Explorer Award: Dr Tom Carmichael. **Cereb Cortex** 1997 Jul–Aug;7(5):472–3
Herbert P. Killackey: Cortical Discoverer Award. Woolsey TA. **Cereb Cortex** 1996 Sep–Oct;6(5):746–8
George W. Huntley: Cortical Explorer Award. Woolsey TA. **Cereb Cortex** 1996 Sep–Oct;6(5):748
Randall R. Johnson: Cortical Scholar Award. Woolsey TA. **Cereb Cortex** 1996 Sep–Oct;6(5):748–9
Pankey and Tice receive 1996 IDSA Clinician Award. **Clin Infect Dis** 1997 Mar;24(3):539–40
Goldstein receives 1995 IDSA Clinician Award. **Clin Infect Dis** 1996 Jan;22(1):203
The Nicolas Andry Award–1995. Fracture healing. Radiation induced alterations. Pelker RR, et al. **Clin Orthop** 1997 Aug;(341):267–82
Awarding of the Herder Award to Dunja Rihtman-Auguštin. Muraj A. **Coll Antropol** 1997 Jun;21(1):335–7
Norman Farberow Award, 1997. Onja Grad, PhD. **Crisis** 1997;18(2):93–4
Erwin Stengel Award 1997. Armin Schmidtke, PhD. **Crisis** 1997;18(2):94–5
Erwin Ringel Award, 1997. Rev. Yukio Saito. **Crisis** 1997; 18(2):95
Stengel Research Award 1995. Goldney R. **Crisis** 1995; 16(3):136
Erwin Ringel Award 1995. Scott V. **Crisis** 1995;16(3):139
Citation for the Gerald D. Aurbach Lecture Award of The Endocrine Society to Ernesto Canalis. Avioli LV. **Endocr Rev** 1996 Aug;17(4):417–8
Citation for the 1996 Ernst Oppenheimer Memorial Award of The Endocrine Society to Keith L. Parker. Chin WW. **Endocr Rev** 1996 Aug;17(4):414–5
Citation for the 1997 Sidney H. Ingbar Distinguished Service Award of The Endocrine Society to William Rosner. Christy NP. **Endocr Rev** 1997 Aug;18(4):618–9
Citation for the 1997 Fred Conrad Koch Award of The Endocrine Society to Wylie Vale. Crowley WF Jr. **Endocr Rev** 1997 Aug;18(4):612–3
Citation for the 1996 Rhône-Poulenc Rorer Clinical Investigator Award of The Endocrine Society to Andrea Dunaif. Crowley WF Jr. **Endocr Rev** 1996 Aug;17(4):418–9
Citation for the 1996 Robert H. Williams Distinguished Leadership Award of The endocrine Society to Isidore Edelman. Funder JW. **Endocr Rev** 1996 Aug;17(4):415–6
Citation for the 1996 Richard E. Weitzman Memorial Award of The Endocrine Society to Martin Matthew Matzuk. Hsueh AJ. **Endocr Rev** 1996 Aug;17(4):421
Citation for the 1996 Fred Conrad Koch Award of The Endocrine Society to Roy Hertz. Jensen EV. **Endocr Rev** 1996 Aug;17(4):413–4
Citation of the 1996 Sidney H. Ingbar Distinguished Service Award of The Endocrine Society to C. Wayne Bardin. Kohler PO. **Endocr Rev** 1996 Aug;17(4):419–20
Citation for the 1997 Edwin B. Astwood Lecture Award of The Endocrine Society to John D. Baxter. Oppenheimer JH. **Endocr Rev** 1997 Aug;18(4):615–6
Citation for the 1997 Robert H. Williams Distinguished Leadership Award of The Endocrine Society to Dr. Hiroo Imura. Orth DN. **Endocr Rev** 1997 Aug;18(4):614–5
Citation for the 1997 Richard E. Weitzman Memorial Award of The Endocrine Society to Donald P. McDonnell. Schrader WT. **Endocr Rev** 1997 Aug;18(4):619–20
Citation for the 1997 Gerald D. Aurbach Lecture Award of The Endocrine Society to Edward M. Brown. Spiegel AM. **Endocr Rev** 1997 Aug;18(4):616–7
Citation for the 1997 Clinical Investigator Award of The Endocrine Society to George P. Chrousos. Vaitukaitis JL. **Endocr Rev** 1997 Aug;18(4):617–8
Citation for the 1996 Edwin B. Astwood Lecture Award of The Endocrine Society to Alfred G. Gilman. Wilson JD. **Endocr Rev** 1996 Aug;17(4):416–7
Citation for the 1997 Ernst Oppenheimer Memorial Award of The Endocrine Society to Pamela L. Mellon. Yen SS. **Endocr Rev** 1997 Aug;18(4):613–4
NIEHS director receives inaugural NAPE Award [news] **Environ Health Perspect** 1997 Jun;105(6):579
Environmental aces [news] **Environ Health Perspect** 1997 Jun;105(6):574–6
Award of the Felix Hoppe-Seyler Prize of the German Society for Laboratory Medicine and the Gábor Szász Prize of the German Society for Clinical Chemistry. Körber F. **Eur J Clin Chem Clin Biochem** 1996 Jun; 34(6):521–4
Award of the Felix Hoppe-Seyler prize of the German Society for Laboratory Medicine, of the Gábor Szász Prize of the German Society for Clinical Chemistry and of the National IFCC-AVL Award. Körber F. **Eur J Clin Chem Clin Biochem** 1997 May;35(5):405–9
Heinrich Wieland Prize 1996. Professor Jeffrey M. Friedman MD, PhD. Zöllner N. **Eur J Med Res** 1997 Jan;2(1):5
"Ottorino Rossi" Award 1997. The biology of nitric oxide. Moncada S. **Funct Neurol** 1997 May-Aug;12(3–4):134–40

(31 ref.)
American Gastroenterological Association. Presentation of the Julius M. Friedenwald medal to David H. Alpers, M.D. Clouse RE, et al. **Gastroenterology** 1997 May;112(5):1744–7
Presentation of the Julius M. Friedenwald Medal to William Silen, M.D. Matthews JB. **Gastroenterology** 1996 Dec; 111(6):1407–10
The 1996 Thomas Hunt Morgan Medal Franklin W. Stahl. Drake JW. **Genetics** 1997 Jan;145(1):1–2
The 1996 Genetics Society of America Medal Elliot Meyerowitz. Preuss D. **Genetics** 1997 Jan;145(1):3
Presentation of the 1996 Herman Wacker Prize to Pierre Amalric, MD. Coscas G.
Graefes Arch Clin Exp Ophthalmol 1997 May;235(5):263–4
1996 William McAdams Outstanding Service Award. Presented to Frazier L. Bronson. Brown R.
Health Phys 1996 Dec;71(6):842–3
1996 National Registry of Radiation Protection Technologists Arthur F. Humm, Jr., Memorial Award. Presented to Charles (Bama) McKnight. Nelsen L.
Health Phys 1996 Dec;71(6):844
1996 National Registry of Radiation Protection Technologists Arthur F. Humm, Jr., Memorial Award. Presented to Claude D. and Bunnie Hooker. Nelsen L.
Health Phys 1996 Dec;71(6):845
1996 Founders Award. Presented to Thomas L. Pitchford. Tolan J. **Health Phys** 1996 Dec;71(6):835–7
1996 Elda E. Anderson Award. Presented to Michael G. Stabin. Toohey RE. **Health Phys** 1996 Dec;71(6):838–9
Management. Another round of applause [news]
Hosp Health Netw 1997 Apr 5;71(7):21
Medicare/Medicaid ... HCFA's 1997 Administrator's Award [news] **Hosp Health Netw** 1997 May 20;71(10):17
Stargazing: 1997 NOVA Award winners. Swan H.
Hosp Health Netw 1997 Jan 20;71(2):47–50, 52, 54–6
Axel Munthe Award 1996—Professor Luigi Mastrioanni Jr. Edwards RG. **Hum Reprod** 1997 Jun;12(6):1365
Hoechst Marion Roussel Hypertension Research Clinical Fellowship Award 1996. **Hypertension** 1997 Jan;29(1 Pt 2):B1–2
Council for High Blood Pressure Research Lifetime Achievement Award. **Hypertension** 1997 Jan;29(1 Pt 2):B3
CIBA Award for hypertension research 1996.
Hypertension 1997 Jan;29(1 Pt 2):B4
CIBA Award for hypertension research 1996.
Hypertension 1997 Jan;29(1 Pt 2):B5–6
Harry Goldblatt Award 1996. **Hypertension** 1997 Jan;29(1 Pt 2):B7
Arthur C. Corcoran Memorial Lecturer 1996.
Hypertension 1997 Jan;29(1 Pt 2):B8
The CV Raman Medal (1995) Award Lecture. New knowledge about exertional breathlessness: use and misuse. Paintal AS. **Indian J Chest Dis Allied Sci** 1996 Jul–Sep; 38(3):181–90
Alfred Bernhard Nobel (1833–1896) [editorial] Mehta N.
Indian J Physiol Pharmacol 1996 Jan;40(1):1–3
Introduction of George B. Benedek 1997 recipient of the Proctor Medal. Clark JI. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):1909–10
Introduction of Robert H. Wurtz 1996 recipient of the Friedenwald Award. Kupfer C.
Invest Ophthalmol Vis Sci 1996 Oct;37(11):2129
Profiles in professionalism: 1996 ACD awardees. William John Gies Award. **J Am Coll Dent** 1996 Winter;63(4):17
Profiles in professionalism: William John Gies Award. Kerr IL. **J Am Coll Dent** 1995 Winter;62(4):18
Dian O. Weddle wins Huddleson Award.
J Am Diet Assoc 1996 Oct;96(10):1055
Sara C. Parks, MBA, RD, receives 1996 Copher Memorial Award. **J Am Diet Assoc** 1996 Nov;96(11):1189
Presentation of the Morris F. Collen Award to G. Octo Barnett, MD, by Robert A. Greenes, MD, PhD. Greenes RA. **J Am Med Inform Assoc** 1997 Mar–Apr;4(2):155–60
Introduction of Thomas E. Andreoli: 1995 recipient of the Homer Smith Award. Robinson RR. **J Am Soc Nephrol** 1996 Jun;7(6):816–7
Veterinary student wins DHHS secretary's certificate of merit in innovations in health promotion and disease prevention writing competition. Hendrix CM.
J Am Vet Med Assoc 1997 May 15;210(10):1434–5
AAMP 1995 distinguished service award to Carroll Moton Leevy, MD. Wilson DE. **J Assoc Acad Minor Phys** 1996; 7(1):13–4
American Society for Bone and Mineral Research annual meeting 1996. Fuller Albright Award. Frederic C. Bartter Award. William F. Neuman Award. **J Bone Miner Res** 1997 Jan;12(1):2–5
The 1996 Lindberg Award. Calcium antagonists alter cell shape and induce procollagenase synthesis in keloid and normal human dermal fibroblasts. Doong H, et al.
J Burn Care Rehabil 1996 Nov–Dec;17(6 Pt 1):497–514 (19 ref.)
The 1996 Clinical Research award. Use of a pneumatonometer in burn scar assessment. Spann K, et al.
J Burn Care Rehabil 1996 Nov–Dec;17(6 Pt 1):515–7
The 1996 Moyer Award. Effects of endotoxin on the Th1/Th2 response in humans. Zimmer S, et al.
J Burn Care Rehabil 1996 Nov–Dec;17(6 Pt 1):491–6 (39 ref.)
The 1996 Margaret Hay Edwards Achievement Medal. Bakemeier RF. **J Cancer Educ** 1996 Winter;11(4):193
Jacob Markowitz Award. Georg Heberer, Dr. med.
J Invest Surg 1996 Jul–Aug;9(4):iii–iv
Jacob Markowitz Award. Henry Swan II, MD.
J Invest Surg 1996 Jul–Aug;9(4):iv–v
First black recipient of New York State Medical Society Award: Gerald W. Deas, MD, MPH. Douglass MI.
J Natl Med Assoc 1996 Nov;88(11):745–8
Lucien Appel prize for neuroradiology 1994.
J Neuroradiol 1994 Apr;21(3):228–31
Awarding of the third Lucien Appel Prize for Neuroradiology. Appel B. **J Neuroradiol** 1996 Dec; 23(4):200–4
The American College of Occupational and Environmental Medicine's Corporate Health Achievement Award. Peterson KW, et al. **J Occup Environ Med** 1996 Oct; 38(10):969–72
Introduction of Steve J. Upton as the Henry Baldwin Ward Medalist for 1996. Fayer R. **J Parasitol** 1996 Dec;82(6):865
The Shwachman Award of the North American Society for Pediatric Gastroenterology and Nutrition. Presentation. Hillemeier C. **J Pediatr Gastroenterol Nutr** 1997 Apr; 24(4):369–70
Elementary and global aspects of calcium signalling. Berridge MJ. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):290–306 (117 ref.)
The Edman Award 1996. Jörnvall H. **J Protein Chem** 1997 Jul;16(5):321
The John W. Knutson Distinguished Service Award in dental public health—1995 recipient Naham C. Cons. Frazier PJ.
J Public Health Dent 1996 Spring;56(2):121–6
Public Service Award: Joe Garagiola. Jones RB.
J Public Health Dent 1996 Spring;56(2):99–100
1995 Distinguished Service Award: Robert E. Mecklenburg, DDS, MPH. McLeran H. **J Public Health Dent** 1996 Spring;56(2):96–9
1995 Special Merit Award: Howard M. Field, DDS, MPH. McLeran H. **J Public Health Dent** 1996 Spring;56(2):96
The John W. Knutson Distinguished Service Award in dental public health–1996 Recipient Dennis Leverett. Shaffer CL.
J Public Health Dent 1997 Spring;57(2):126–7
Bayer diagnostic prize to the United Services Section of the Royal Society of Medicine. **J R Army Med Corps** 1994 Oct;140(3):137
DuPont Prize for Receptor Research 1996.
J Recept Signal Transduct Res 1997 Jan–May; 17(1–3):xviii–ix
Richard L. Lindstrom, MD, 1995 Barraquer Lecturer, Biographical Sketch. **J Refract Surg** 1997 May–Jun; 13(3):285–6
Silver Medal of the SAVA: 1990. Prof. C. M. Veary.
J S Afr Vet Assoc 1990 Dec;61(4):186–7
Gold Medal of the SAVA: 1990. Prof. D. R. Osterhoff.
J S Afr Vet Assoc 1990 Dec;61(4):184–5
Pediatric Urology Medal. Panayotis P. Kelalis. Kramer SA.
J Urol 1997 Sep;158(3 Pt 2):1154–5
E. P. Pope Memorial Award to Dr. Leon Thacker.
J Vet Diagn Invest 1997 Jan;9(1):1
E.P. Pope Memorial Award to Dr. James E. Pearson.
J Vet Diagn Invest 1996 Jan;8(1):1
The 1996 Albert Lasker Medical Research Awards. The discovery of endothelium-derived relaxing factor and its importance in the identification of nitric oxide. Furchgott RF. **JAMA** 1996 Oct 9;276(14):1186–8
1997 Albert Lasker and Gairdner Foundation International Medical Research awardees named [news] Goldsmith MF.
JAMA 1997 Oct 8;278(14):1138, 1140
Ronna Siegel, MD, is 17th Fishbein Fellow [news] Gunby P. **JAMA** 1997 Jun 25;277(24):1922
The 1996 Albert Lasker Medical Research Awards. Signal transduction using nitric oxide and cyclic guanosine monophosphate. Murad F. **JAMA** 1996 Oct 9; 276(14):1189–92
The 1996 Albert Lasker Medical Research Awards. Prevention of systemic infections, especially meningitis, caused by Haemophilus influenzae type b. Impact on public health and implications for other polysaccharide-based vaccines. Robbins JB, et al. **JAMA** 1996 Oct 9; 276(14):1181–5
AMA gets Goethe trophy for antismoking efforts [news] Skolnick AA. **JAMA** 1996 Nov 27;276(20):1630
Presentation of the 1997 Jean Hamburger Award to Renée Habib and Priscilla Kincaid-Smith. Cameron JS.
Kidney Int 1997 Jun;51(6):2056–62
Presentation of the 1997 A.N. Richards Award to Alexander Leaf. Giebisch G. **Kidney Int** 1997 Jun;51(6):2046–51
Presentation of the 1997 A.N. Richards Award to Klaus Thurau. Giebisch G. **Kidney Int** 1997 Jun;51(6):2052–5
Laudation delivered at the ceremony of presenting second Tadeusz Krwawicz Gold Medal to Professor Franz Frankhauser in Lublin, on 29 March 1996. Naumann GO.
Klin Oczna 1996;98(6):463–4
The Wakley Prize [comment] Horton R. **Lancet** 1996 Dec 21–28;348(9043):1676. Comment on: Lancet 1996 Dec 21–28;348(9043):1703–4.
Everybody has won, and all must have prizes [see comments] Patel L, et al. **Lancet** 1996 Nov 30;348(9040):1497. Comment in: Lancet 1997 Mar 22;349(9055):885.
Education, self-esteem, and prizes [letter; comment] Shiwach RS. **Lancet** 1997 Mar 22;349(9055):885. Comment on: Lancet 1996 Nov 30;348(9040):1497.
The Harris P. Mosher Award: a legacy of excellence. Bailey BJ. **Laryngoscope** 1996 Nov;106(11):1317–22
Harris Peyton Mosher: the man behind the award. Jahrsdoerfer RA. **Laryngoscope** 1996 Nov;106(11):1323–5
Introduction of the Lester Brown Resident Award. Keller AP Jr. **Laryngoscope** 1997 Jul;107(7):843
The Edmund Prince Fowler Award. Sasaki CT.
Laryngoscope 1996 Dec;106(12 Pt 1):1463–4
Winner of the MOD Young Investigator award 1996. Jäckle H. **Mech Dev** 1997 Apr;63(1):3
The Eugene M. Landis Award Lecture 1996. Delivery of molecular and cellular medicine to solid tumors. Jain RK.
Microcirculation 1997 Mar;4(1):1–23 (150 ref.)
Mutation Research Award. 1996. **Mutat Res** 1997 Mar 17; 389(2–3):2 p preceding 123
James E. Spencer receives Distinguished Service Award.
N Y State Dent J 1997 Feb;63(2):59
Miami Winter Symposium gets back to basics [editorial]
Nat Biotechnol 1997 Feb;15(2):109
NO prizes [letter] Yacoub M, et al. **Nature** 1997 Jan 30; 385(6615):385
Introduction of Nathan B. Eddy Award recipient. Cottler LB. **NIDA Res Monogr** 1994;140:27–9
Introduction of the Nathan B. Eddy Memorial Award. Jaffe JH. **NIDA Res Monogr** 1997;174:14–6
Introduction to the Nathan B. Eddy Memorial Award recipient. Kosten TR. **NIDA Res Monogr** 1996;162:21–3
Presentation of 1995 J. Michael Morrison Award. O'Brien CP. **NIDA Res Monogr** 1996;162:20
John M. Kinney, MD. Hammond WG. **Nutrition** 1996 Apr; 12(4):295–9
The quality of lives: 1,525 voices of cancer. Betty R. Ferrell, PhD, FAAN, 1996 Oncology Nursing Society Distinguished Researcher. Dow KH. **Oncol Nurs Forum** 1996 Jul;23(6):907–8
Donald Mutti receives first-ever Borish Award [news]
Optom Vis Sci 1997 Feb;74(2):71
Merton Flom receives Prentice Medal [news]
Optom Vis Sci 1997 Feb;74(2):71
Earl Smith receives Fry Award [news] **Optom Vis Sci** 1997 Feb;74(2):71–2
Presentation of the 1996 American Pediatric Society John Howland Award to Mildred T. Stahlman. Cotton RB.
Pediatr Res 1996 Nov;40(5):767–71
Acceptance of the 1996 American Pediatric Society John Howland Award: who will save our children? Stahlman MT. **Pediatr Res** 1996 Nov;40(5):772–3
ANNA-MONIKA prizes 1995. Helmchen H.
Pharmacopsychiatry 1996 Jan;29(1):1
Elaine J. Stone, Ph.D., M.P.H. recipient of the Stokes Award in Preventive Cardiology. **Prev Med** 1996 Sep–Oct; 25(5):642–3
Presentation of the 1996 George M. Kober Medal to Robert G. Petersdorf. Hook EW Jr. **Proc Assoc Am Physicians** 1996 Sep;108(5):400–9
Presentation of the 1995 George M. Kober medal to Alexander Leaf. Relman AS. **Proc Assoc Am Physicians** 1996 Jan;108(1):100–6
Syntex and the Syntex Prize. **Proc West Pharmacol Soc** 1996; 39:107
Supporting one another: the definition of PHN, awards, and the impromptu [editorial] Wallinder J.
Public Health Nurs 1997 Apr;14(2):77–80
The International Society of Regulatory Toxicology and Pharmacology International Achievement Award.
Regul Toxicol Pharmacol 1995 Dec;22(3):294
Critics say Laskers omitted NO pioneer [news] Marshall E.
Science 1996 Oct 11;274(5285):173–4
Pharmacia Biotech & Science Prize. 1996 grand prize winner. RNA editing hints of a remarkable diversity in gene expression pathways. Seiwert SD. **Science** 1996 Dec 6; 274(5293):1636–7
Dr Thomas Mohr. Winner of the Lars Sullivan Spinalis Prize 1996 [published erratum appears in Spinal Cord 1997 Apr;35(4):262] Biering-Sørensen F. **Spinal Cord** 1997 Mar; 35(3):192
The Texas Heart Institute Award for undergraduate writing in the history of cardiovascular medicine and surgery. Mohammed Nasier Khan 1996 winner.
Tex Heart Inst J 1996;23(4):257
Paul Starr Award to Geraldo Medeiros-Neto. DeGroot LJ.
Thyroid 1997 Feb;7(1):157–8
Van Meter Prize of the American Thyroid Association to Gregory Brent. Larsen PR. **Thyroid** 1997 Feb;7(1):153–4
Sidney Ingbar Award to Samuel Refetoff. Vassart G.
Thyroid 1997 Feb;7(1):155
The Gold Medal of the Catalan Transplantation Society.
Transplant Proc 1997 Feb–Mar;29(1–2):14–5
1996 Medawar Prize Citation for Professor Jean Dausset. Rapaport FT. **Transplant Proc** 1997 Feb–Mar;29(1–2):31
Presentation of the Ian Donald Gold Medal to Juriy Wladimiroff. Campbell S. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):208–9
Presentation of the Ian Donald Medal for Technical Development to Tom Brown. Campbell S.
Ultrasound Obstet Gynecol 1997 Mar;9(3):208–9
WAAP and Pfizer Award for excellence in veterinary parasitology research. Pursuing life cycles and transmission of cyst-forming coccidia of animals and humans. Dubey JP. **Vet Parasitol** 1996 Aug;64(1–2):13–20 (41 ref.)
WAAVP and Pfizer Award for excellence in teaching veterinary parasitology. My philosophy on teaching parasitology and parasitic diseases. Euzeby J.
Vet Parasitol 1996 Aug;64(1–2):21–9
[Tribute from the French Neuroradiology Society to

Professor Auguste Wackenheim] **J Neuroradiol** 1997 Jun; 24(1):4–6 **(Fre)**

[The Francqui Prize 1996 awarded to Etienne Pays (news)] **Sante** 1996 Jul–Aug;6(4):260 **(Fre)**

[In recognition of Prof. Dr. Kurt–Alphons Jochheim on the award of the Salomon–Neumann Medal of the German Society of Social Medicine and Prevention] Brennecke R. **Gesundheitswesen** 1996 Feb;58(2):69–71 **(Ger)**

[Laudatio on awarding the 1996 Johann–Peter–Frank–Medal] Jaeschke B. **Gesundheitswesen** 1996 Nov;58(11):578–9 **(Ger)**

[Laudatio on the presentation of the 1995 Salomon–Neumann Medal to Prof. Dr. med. Friedrich Wilhelm Schwartz] Robra BP. **Gesundheitswesen** 1997 Apr;59(4):203–6 **(Ger)**

["Massimo Crepet" study award] Manno M, et al. **Med Lav** 1996 Jul–Aug;87(4):362–3 **(Ita)**

["Luigi Pettinati" study award] Manno M, et al. **Med Lav** 1996 Jul–Aug;87(4):361–3 **(Ita)**

[The Anders Jahre medical awarad 1996] Waldum HL, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2804–6 **(Nor)**

[Professor Arvo Mesikepp and Dr Viktor Vassiljev awarded the honorary medal of the Polish Society of Internal Medicine] Kucharz EJ. **Pol Arch Med Wewn** 1996 Jul; 96(1):93–4 **(Pol)**

[Professor David Shugar awarded a honorary doctorate from the University of Warsaw] Konarska L, et al. **Postepy Biochem** 1997;43(1):2–4 **(Pol)**

[The medal "Iron and Blood". (On the 140th anniversary of the end of the Crimean War)] Gribanov ED. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):62–3 **(Rus)**

[Blood coagulation research scientist in Malmö awarded the Fernström prize] **Lakartidningen** 1996 Oct 16;93(42):3718 **(Swe)**

[Award for the research on blood coagulation. (Björn Dahlbäck)] Lennholm BO. **Lakartidningen** 1996 Nov 27; 93(48):4418–9 **(Swe)**

AWARENESS

Motor vehicle accidents, fatigue and optimism bias in taxi drivers. Dalziel JR, et al. **Accid Anal Prev** 1997 Jul; 29(4):489–94

Development of fatigue symptoms during simulated driving. Nilsson T, et al. **Accid Anal Prev** 1997 Jul;29(4):479–88

Awareness in anaesthesia: incidence, consequences and prevention. Heier T, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1073–86 (216 ref.)

Recall of awareness during cardiac anaesthesia: influence of feedback information to the anaesthesiologist. Ranta S, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):554–60

The claims of compensation for awareness with recall during general anaesthesia in Finland. Ranta S, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):356–9

Changing behavior: a challenge for reproductive health awareness. Andreasen AR. **Adv Contracept** 1997 Jun–Sep; 13(2–3):351–3 (0 ref.)

Body/self awareness and interpersonal communications: fundamental components of reproductive health awareness. Aumack–Yee K. **Adv Contracept** 1997 Jun–Sep; 13(2–3):319–23 (6 ref.)

Implementing reproductive health awareness: progress to date. Cachan J, et al. **Adv Contracept** 1997 Jun–Sep; 13(2–3):363–71 (3 ref.)

Gender, sexuality and communication issues that constitute barriers to the use of natural family planning and other fertility awareness–based methods. Diaz M. **Adv Contracept** 1997 Jun–Sep;13(2–3):303–9 (4 ref.)

The potential contribution of sexuality and gender awareness. Kopp Z. **Adv Contracept** 1997 Jun–Sep;13(2–3):325–9 (5 ref.)

Reproductive health awareness: an integrated approach to obtaining a high quality of health. Marshall M, et al. **Adv Contracept** 1997 Jun–Sep;13(2–3):313–8 (0 ref.)

Reproductive health awareness: an important dimension to be integrated into existing sexual and reproductive health programs. Pyper C. **Adv Contracept** 1997 Jun–Sep; 13(2–3):331–8 (5 ref.)

Breaking the mold: expanding options for reproductive health awareness: the CARE experience. Schubert J, et al. **Adv Contracept** 1997 Jun–Sep;13(2–3):355–61 (0 ref.)

The reproductive health awareness (RHA) model: a qualitative perspective. Wilson A. **Adv Contracept** 1997 Jun–Sep;13(2–3):339–42 (3 ref.)

Carer informants for dementia sufferers: carer awareness of cognitive impairment in an elderly community–resident sample. McLoughlin DM, et al. **Age Ageing** 1996 Sep; 25(5):367–71

Has awareness of the alcohol warning label reached its upper limit? Hankin JR, et al. **Alcohol Clin Exp Res** 1996 May; 20(3):440–4

Awareness of variability in awareness [editorial; comment] Neundorfer MM. **Alzheimer Dis Assoc Disord** 1997 Sep; 11(3):121–2. Comment on: Alzheimer Dis Assoc Disord 1997 Sep;11(3):125–31.

Unawareness of cognitive deficit in Alzheimer disease and related dementias [see comments] Wagner MT, et al. **Alzheimer Dis Assoc Disord** 1997 Sep;11(3):125–31. Comment in: Alzheimer Dis Assoc Disord 1997 Sep;11(3):121–2.

Physician unawareness of serious substance abuse. Saitz R, et al. **Am J Drug Alcohol Abuse** 1997 Aug;23(3):343–54

Menopausal hormone therapy: physician awareness of patient attitudes. Ghali WA, et al. **Am J Med** 1997 Jul;103(1):3–10

Self–knowledge and self–awareness. Kihlstrom JF, et al. **Ann N Y Acad Sci** 1997 Jun 18;818:4–17 (30 ref.)

The self in self–conscious emotions. Lewis M. **Ann N Y Acad Sci** 1997 Jun 18;818:118–42 (49 ref.)

A comparison of the self–awareness and kinesthetic–visual matching theories of self–recognition: autistic children and others. Mitchell RW. **Ann N Y Acad Sci** 1997 Jun 18; 818:38–62 (111 ref.)

Finding one's self in time. Nelson K. **Ann N Y Acad Sci** 1997 Jun 18;818:102–16 (31 ref.)

What is mirror self–recognition in nonhuman primates, and what is it not? Swartz KB. **Ann N Y Acad Sci** 1997 Jun 18;818:64–71 (30 ref.)

SIDS: parental awareness and infant care practices in contrasting socioeconomic areas in Cardiff. Shrivastava A, et al. **Arch Dis Child** 1997 Jul;77(1):52–3

Health warning on alcoholic beverages [letter] Lovell J. **Aust Fam Physician** 1997 Feb;26(2):187

Sources of situation awareness errors in aviation. Jones DG, et al. **Aviat Space Environ Med** 1996 Jun;67(6):507–12

Habits, tics, and stuttering. Prevalence and relation to anxiety and somatic awareness. Woods DW, et al. **Behav Modif** 1996 Apr;20(2):216–25

Information processing in anxiety and depression. Lang AJ, et al. **Behav Res Ther** 1997 May;35(5):451–5

Monitoring the source of memory in detoxified alcoholics. Weingartner HJ, et al. **Biol Psychiatry** 1996 Jul 1; 40(1):43–53

Absence of memory for intraoperative information during surgery under adequate general anaesthesia. Russell IF, et al. **Br J Anaesth** 1997 Jan;78(1):3–9

Psychological predictors of insight and compliance in psychotic patients. Kemp R, et al. **Br J Psychiatry** 1996 Oct;169(4):444–50

Relationship between insight, educational background and cognition in schizophrenia. Macpherson R, et al. **Br J Psychiatry** 1996 Jun;168(6):718–22

Road to awareness: an individualized training package for increasing knowledge and comprehension of personal deficits in persons with acquired brain injury. Chittum WR, et al. **Brain Inj** 1996 Oct;10(10):763–76

Tonic, phasic, and transient EEG correlates of auditory awareness in drowsiness. Makeig S, et al. **Brain Res Cogn Brain Res** 1996 Jul;4(1):15–25

Awareness during general anesthesia. Sebel PS. **Can J Anaesth** 1997 May;44(5 Pt 2):R124–30 (16 ref.) **(Eng, Fre)**

Marital conflict and adolescent distress: the role of adolescent awareness. Harold GT, et al. **Child Dev** 1997 Apr; 68(2):333–50

Memory during general anesthesia: practical and methodological aspects [see comments] Bonebakker AE, et al. **Conscious Cogn** 1996 Dec;5(4):542–61. Comment in: Conscious Cogn 1996 Dec;5(4):525–41.

On assumptions of, relations between, and evaluations of some process dissociation measurement models [comment] [see comments] Buchner A, et al. **Conscious Cogn** 1996 Dec; 5(4):581–94. Comment on: Conscious Cogn 1996 Mar–Jun;5(1–2):232–54. Comment in: Conscious Cogn 1996 Dec;5(4):595–603.

Ways of knowing [comment] Hardcastle VG. **Conscious Cogn** 1996 Sep;5(3):359–67 (15 ref.). Comment on: Conscious Cogn 1996 Sep;5(3):327–58.

Guessing strategies, aging, and bias effects in perceptual identification [see comments] Light LL, et al. **Conscious Cogn** 1996 Dec;5(4):463–99. Comment in: Conscious Cogn 1996 Dec;5(4):500–11.

Separating implicit from explicit retrieval processes in perceptual identification [see comments] McKoon G, et al. **Conscious Cogn** 1996 Dec;5(4):500–11; discussion 512–24 . Comment in: Conscious Cogn 1996 Dec;5(4):463–99.

When dreams become reality. Mazzoni GA, et al. **Conscious Cogn** 1996 Dec;5(4):442–62

Memory for unconsciously perceived events: evidence from anesthetized patients [see comments] Merikle PM, et al. **Conscious Cogn** 1996 Dec;5(4):525–41. Comment in: Conscious Cogn 1996 Dec;5(4):542–61.

A general model for the adaptive function of self–knowledge in animals and humans. Parker ST. **Conscious Cogn** 1997 Mar;6(1):75–86

Response bias correction in the process dissociation procedure: a reevaluation? [comment] Reingold EM, et al. **Conscious Cogn** 1996 Dec;5(4):595–603. Comment on: Conscious Cogn 1996 Dec;5(4):581–94.

Inhibition, contextual segregation, and subject strategies in list method directed forgetting. Whetstone T, et al. **Conscious Cogn** 1996 Dec;5(4):395–417

Signal–detection, threshold, and dual–process models of recognition memory: ROCs and conscious recollection. Yonelinas AP, et al. **Conscious Cogn** 1996 Dec;5(4):418–41

Autonomic and recognition indices of memory in amnesic and healthy control subjects. Diamond BJ, et al. **Cortex** 1996 Sep;32(3):439–59

Blindsight revisited. Weiskrantz L. **Curr Opin Neurobiol** 1996 Apr;6(2):215–20 (50 ref.)

Young children's appreciation of the mental impact of their communicative signals. Shwe HI, et al. **Dev Psychol** 1997 Jul;33(4):630–6

Changing relations between phonological processing abilities and word–level reading as children develop from beginning to skilled readers: a 5–year longitudinal study. Wagner RK, et al. **Dev Psychol** 1997 May;33(3):468–79

Mother–child participation in conversation about the past: relationships to preschoolers' theory of mind. Welch–Ross MK. **Dev Psychol** 1997 Jul;33(4):618–29

Patient awareness of genetic and environmental risk factors in non–insulin–dependent diabetes mellitus—relevance to first–degree relatives. Gnanalingham MG, et al. **Diabet Med** 1997 Aug;14(8):660–2

Symptom awareness is affected by the subjects' expectations during insulin–induced hypoglycemia. Pohl J, et al. **Diabetes Care** 1997 May;20(5):796–802

Environmental awareness and level–dependent hearing protection devices. Lindley GA 4th, et al. **Ear Hear** 1997 Feb;18(1):73–82

Determinants of contraceptive use: from birth control to fertility awareness [editorial] Oddens BJ. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan;71(1):1–2 (16 ref.)

Influence of awareness of the recording of breathing on respiratory pattern in healthy humans. Han JN, et al. **Eur Respir J** 1997 Jan;10(1):161–6

Age differences in performance awareness on a complex financial decision–making task. Hershey DA, et al. **Exp Aging Res** 1997 Jul–Sep;23(3):257–73

Music improves emotional awareness [letter] Alexander M, et al. **Fam Med** 1996 May;28(5):318

Mental time travel and the evolution of the human mind. Suddendorf T, et al. **Genet Soc Gen Psychol Monogr** 1997 May;123(2):133–67 (190 ref.)

Awareness of deficit in Alzheimer's disease: relation to caregiver burden. Seltzer B, et al. **Gerontologist** 1997 Feb; 37(1):20–4

Changes in reported awareness of product warning labels and messages in cohorts of California Hispanics and non–Hispanic whites. Marín G, et al. **Health Educ Behav** 1997 Apr;24(2):230–44

Insight into auditory hallucinations and psychosis [letter] Gordon AG. **Int J Geriatr Psychiatry** 1997 Mar;12(3):410–1

The social biofeedback theory of parental affect–mirroring: the development of emotional self–awareness and self–control in infancy. Gergely G, et al. **Int J Psychoanal** 1996 Dec;77 (Pt 6):1181–212

Self–reports of memory problems in relatives of patients with probable Alzheimer's disease. McPherson S, et al. **Int Psychogeriatr** 1995 Fall;7(3):367–76

Assessment of insight in psychotic disorders. Fennig S, et al. **Isr J Psychiatry Relat Sci** 1996;33(3):175–87 (42 ref.)

Children's cognitive responses to the somatic symptoms of panic. Mattis SG, et al. **J Abnorm Child Psychol** 1997 Feb; 25(1):47–57

Relation of depressive symptoms to the structure of self–knowledge in childhood. Jordan A, et al. **J Abnorm Psychol** 1996 Nov;105(4):530–40

Nutrition Screening Initiative Checklist may be a better awareness/educational tool than a screening one. Sahyoun NR, et al. **J Am Diet Assoc** 1997 Jul;97(7):760–4

Interpretive bias for benign sensations in panic disorder with agoraphobia. Kamieniecki GW, et al. **J Anxiety Disord** 1997 Mar–Apr;11(2):141–56

Insulin–associated modulation of neuroendocrine counterregulation, hypoglycemia perception, and cerebral function in insulin–dependent diabetes mellitus: evidence for an intrinsic effect of insulin on the central nervous system. Lingenfelser T, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1197–205

Clinical review 88: hypoglycemia unawareness in noninsulin–dependent diabetes mellitus. Veneman TF, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1682–4 (23 ref.)

Patient awareness during general anesthesia: a shocking outcome. Watkins–Pitchford M, et al. **J Clin Monit** 1997 Jan;13(1):51–2

Patient awareness during general anesthesia: a legal guide. Grinblat TS. **J Contemp Health Law Policy** 1996 Fall; 13(1):137–67

Means to the goal of remembering: developmental changes in awareness of strategy use—performance relations. Justice EM, et al. **J Exp Child Psychol** 1997 Jun;65(3):293–314

Phonological awareness deficits in developmental dyslexia and the phonological representations hypothesis. Swan D, et al. **J Exp Child Psychol** 1997 Jul;66(1):18–41

Individual difference variables that predict response to training in phonological awareness. Torgesen JK, et al. **J Exp Child Psychol** 1996 Oct;63(1):1–21

Orienting attention without awareness. McCormick PA. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):168–80

Exemplar similarity and the development of automaticity. Palmeri TJ. **J Exp Psychol Learn Mem Cogn** 1997 Mar; 23(2):324–54

Parents' perceptions of children's worries in a changing world. Gottlieb D, et al. **J Genet Psychol** 1996 Mar; 157(1):104–18.

Remembering details in stories about childhood sexual abuse. Lewis SF, et al. **J Genet Psychol** 1997 Sep;158(3):377–9

The prevalence and awareness of hypertension among Israeli Arabs. Amad S, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S31–3

Awareness and treatment of arterial hypertension in Poland. Krupa–Wojciechowska B, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S25–7

Awareness of illness in schizophrenia and outpatient

treatment adherence. Cuffel BJ, et al. **J Nerv Ment Dis** 1996 Nov;184(11):653–9
Conscious and unconscious retrieval in picture recognition: a framework for exploring gender differences. Anooshian LJ, et al. **J Pers Soc Psychol** 1996 Mar;70(3):637–45
On the nature of self–monitoring: construct explication with Q–sort ratings. John OP, et al. **J Pers Soc Psychol** 1996 Oct;71(4):763–76
Development of phonological awareness of Chinese children in Hong Kong. Ho CS, et al. **J Psycholinguist Res** 1997 Jan;26(1):109–26
Preventing non–family child abductions: are children aware they are being followed? Stevenson MR, et al. **J Sch Health** 1996 Dec;66(10):359–60
Awareness of interpersonal style and self–evaluation. Van Buren A, et al. **J Soc Psychol** 1997 Aug;137(4):429–34
Alcoholics' perceptions of cues to intoxication. Burroughs WJ, et al. **J Subst Abuse** 1996;8(4):471–7
A Cocaine Negative Consequences Checklist: development and validation. Michalec EM, et al. **J Subst Abuse** 1996; 8(2):181–93
The correlates of addiction concern among adolescents at high risk for drug abuse. Sussman S, et al. **J Subst Abuse** 1996;8(3):361–70
Wake–up call aimed at drowsy drivers: message is 'drive alert, arrive alive' [news] Lamberg L. **JAMA** 1996 Oct 16;276(15):1209–10
The evolutionary biology of self–deception, laughter, dreaming and depression: some clues from anosognosia. Ramachandran VS. **Med Hypotheses** 1996 Nov; 47(5):347–62
Awareness, action, and collaboration: how the self–advocacy movement is empowering for persons with developmental disabilities. Miller AB, et al. **Ment Retard** 1996 Oct; 34(5):312–9 (45 ref.)
The effects of acute hypoglycemia on relative cerebral blood flow distribution in patients with type I (insulin–dependent) diabetes and impaired hypoglycemia awareness. MacLeod KM, et al. **Metabolism** 1996 Aug;45(8):974–80
October is breast cancer awareness month. Physicians aid women through state cancer control program. DeShano CL. **Mich Med** 1996 Oct;95(10):40, 62
What young chimpanzees know about seeing. Povinelli DJ, et al. **Monogr Soc Res Child Dev** 1996;61(3):i–vi, 1–152; discussion 153–91
A cross–cultural study on impaired self–awareness in Japanese patients with brain dysfunction. Prigatano GP, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr;10(2):135–43
Anosognosia and procedural learning in Alzheimer's disease. Starkstein SE, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr; 10(2):96–101
Sustained attention and awareness of disability in chronic neglect. Hjaltason H, et al. **Neuropsychologia** 1996 Dec; 34(12):1229–33
New health program targets teenage smoking [news] **Pa Med** 1997 Feb;100(2):20
Health department booklet targets young parents [news] **Pa Med** 1996 Feb;99(2):18
Effect of viewing the RPE scale on the ability to make ratings of perceived exertion. Abadie BR. **Percept Mot Skills** 1996 Aug;83(1):317–8
Assessment of understanding by people manifesting mental retardation: a preliminary report. Coles EM, et al. **Percept Mot Skills** 1996 Aug;83(1):187–92 (18 ref.)
A disability awareness unit in physical education and attitudes of elementary school students. Loovis EM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):768–70
Lack of insight among outpatients with schizophrenia. Dickerson FB, et al. **Psychiatr Serv** 1997 Feb;48(2):195–9
Neuropsychological aspects of lack of insight in bipolar disorder: a preliminary report. Ghaemi SN, et al. **Psychiatry Res** 1996 Nov 15;65(2):113–20
Person, organism, and self: their worlds and their psychoanalytically relevant relationships (1977 [1981] [1969]) [classical article] Rubinstein BB. **Psychol Issues** 1997;(62–63):415–45
Disclosure of contextually hidden sexual images embedded in an advertisement. Simpson PM, et al. **Psychol Rep** 1997 Aug;81(1):333–4
Attitude toward medication and perceived competence among chronically psychotic patients. Todman M Jr, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):809–10
Immediately preceding stimuli increase the detection of a less detectable but not a more detectable stimulus. King DL. **Psychol Res** 1996;59(2):94–9
Influences of task concreteness upon transitive responding in humans. Siemann M, et al. **Psychol Res** 1996;59(2):81–93
Impaired verbal and nonverbal emotion recognition in alexithymia [published erratum appears in Psychosom Med 1996 Nov–Dec;58(6):581] Lane RD, et al. **Psychosom Med** 1996 May–Jun;58(3):203–10
Lucid dreaming as a treatment for recurrent nightmares. Zadra AL, et al. **Psychother Psychosom** 1997;66(1):50–5
Common sense, insight, and neuropsychological test performance in schizophrenia patients. McEvoy JP, et al. **Schizophr Bull** 1996;22(4):635–41
Insight in first–admission psychotic patients. Fennig S, et al. **Schizophr Res** 1996 Dec 15;22(3):257–63
Insight in schizophrenia and its relationship to psychopathology. Kemp RA, et al. **Schizophr Res** 1995 Dec;18(1):21–8
Attribution of intentions to others in people with schizophrenia: a non–verbal exploration with comic strips. Sarfati Y, et al. **Schizophr Res** 1997 Jun 20;25(3):199–209
Perceived self–control of seizures in young people with epilepsy. Cull CA, et al. **Seizure** 1996 Jun;5(2):131–8
Impact of witnessing death on hospice patients. Payne S, et al. **Soc Sci Med** 1996 Dec;43(12):1785–94
Awareness of dying: prevalence, causes and consequences. Seale C, et al. **Soc Sci Med** 1997 Aug;45(3):477–84
Knowledge of risk among patients at increased risk for stroke. Samsa GP, et al. **Stroke** 1997 May;28(5):916–21
Year of the child. Ortolon K. **Tex Med** 1997 Mar;93(3):22–6
Effect of body position on tongue posture in awake patients with obstructive sleep apnoea. Miyamoto K, et al. **Thorax** 1997 Mar;52(3):255–9
Perspectives on prostate cancer treatment: awareness, attitudes, and relationships. Porterfield HA. **Urology** 1997 Mar;49(3A Suppl):102–3
[Awareness anesthesia––an anesthesiologic dilemma] Schierbeck J, et al. **Ugeskr Laeger** 1997 Jun 2; 159(23):3567–71 (38 ref.) (Eng. Abstr.) **(Dan)**
[Organization and representation of action in schizophrenia] Georgieff N. **Encephale** 1996 Oct;22 Spec No 3:108–15 (46 ref.) **(Fre)**
[Intentional awareness and schizophrenia] Hardy–Baylé MC, et al. **Encephale** 1996 Oct;22 Spec No 3:104–7 (12 ref.) **(Fre)**
[Smoking behavior and views on the smoking topic in the Styrian population––results of a survey at the Graz autumn convention] Maier R, et al. **Acta Med Austriaca** 1996; 23(3):101–4 (Eng. Abstr.) **(Ger)**
[Self and informant perception of clinical manifestations of Alzheimer dementia: results of a structured interview (CAMDEX)] Förstl H, et al. **Fortschr Neurol Psychiatr** 1996 Jun;64(6):228–33 (Eng. Abstr.) **(Ger)**
[Are self–perceivable neuropsychological deficits in patients with neuroses or personality disorder diagnoses indicative of later schizophrenia?] Klosterkötter J, et al. **Nervenarzt** 1997 Mar;68(3):196–204 (Eng. Abstr.) **(Ger)**
[Self–reflection, interpersonal behavior and psychoanalytic ethics] Bürgy M. **Psychother Psychosom Med Psychol** 1997 May;47(5):181–6 (32 ref.) (Eng. Abstr.) **(Ger)**
[Insight into the illness by schizophrenic patients: a psychoanalytic perspective] Rittmannsberger H. **Psychother Psychosom Med Psychol** 1996 Jul;46(7):269–75 (55 ref.) (Eng. Abstr.) **(Ger)**
[Social factors related to awareness of public health care services among elderly adults] Sugisawa H, et al. **Nippon Koshu Eisei Zasshi** 1996 Aug;43(8):624–31 (Eng. Abstr.) **(Jpn)**
[Is awareness of morae a requisite for acquisition of kana reading?] Dairoku H. **Shinrigaku Kenkyu** 1995 Oct; 66(4):253–60 (Eng. Abstr.) **(Jpn)**
[Awareness of the subjective vertical in weightlessness (results of Austrian–Russian experiment Optovert performed within the framework of the program Austromir, part III)] Kornilova LN, et al. **Aviakosm Ekolog Med** 1996;30(2):11–5 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

"Awareness" during endoscopic procedures [letter] Grant G. **Anaesth Intensive Care** 1996 Aug;24(4):517
Patients' memories of events during general anaesthesia. Bailey AR, et al. **Anaesthesia** 1997 May;52(5):460–76 (102 ref.)
The effects of epidural fentanyl on hemodynamic responses during emergence from isoflurane anesthesia and tracheal extubation: a comparison with intravenous fentanyl. Inagaki Y, et al. **Anesth Analg** 1997 Aug;85(2):328–35
Midazolam and awareness with recall during total intravenous anaesthesia. Miller DR, et al. **Can J Anaesth** 1996 Sep;43(9):946–53
Investigations of hypesthesia: using anesthetics to explore relationships between consciousness, learning, and memory. Andrade J. **Conscious Cogn** 1996 Dec;5(4):562–80 (42 ref.)

PHYSIOLOGY

Impaired awareness of deficits in Alzheimer disease. Ott BR, et al. **Alzheimer Dis Assoc Disord** 1996 Summer;10(2):68–76
Blindsight and consciousness. Natsoulas T. **Am J Psychol** 1997 Spring;110(1):1–33 (75 ref.)
Intact perceptual memory in the absence of conscious memory. Hamann SB, et al. **Behav Neurosci** 1997 Aug; 111(4):850–4
The sensation of respiration in men experiencing high–altitude chronic hypoxia. Noël–Jorand MC, et al. **Biol Psychol** 1996 Mar 8;43(1):1–12
Relationship between muscular tone, movement and periarticular new bone formation in postcoma–unaware (PC–U) patients. Tsur A, et al. **Brain Inj** 1996 Apr; 10(4):259–62
The functional anatomy of visual awareness. Koch C, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:49–57 (59 ref.)
Spatial brain coherence during the establishment of a conscious event [editorial] Baars BJ. **Conscious Cogn** 1997 Mar;6(1):1–2
Consciousness and the organization of neural processes: commentary on John et al. Cariani P. **Conscious Cogn** 1997 Mar;6(1):56–64
Constraints on awareness, attention, processing, and memory: some recent investigations with ignored speech. Cowan N, et al. **Conscious Cogn** 1997 Jun–Sep;6(2–3):182–203 (34 ref.)
Consciousness and cognition may be mediated by multiple independent coherent ensembles. John ER, et al. **Conscious Cogn** 1997 Mar;6(1):3–39; discussion 40–1, 50–5, 65–6
Attention, awareness, and the triangular circuit. LaBerge D. **Conscious Cogn** 1997 Jun–Sep;6(2–3):149–81 (120 ref.)
Parallels between perception without attention and perception without awareness. Merikle PM, et al. **Conscious Cogn** 1997 Jun–Sep;6(2–3):219–36
Neural coherence and the content of consciousness. Thatcher RW. **Conscious Cogn** 1997 Mar;6(1):42–9
Alien hand syndrome: influence of neglect on the clinical presentation of frontal and callosal variants. Chan JL, et al. **Cortex** 1997 Jun;33(2):287–99
Towards the neuronal correlate of visual awareness. Koch C, et al. **Curr Opin Neurobiol** 1996 Apr;6(2):158–64 (56 ref.)
The measurement of cognitive function during acute hypoglycaemia: experimental limitations and their effect on the study of hypoglycaemia unawareness. Heller SR, et al. **Diabet Med** 1996 Jul;13(7):607–15 (72 ref.)
Long–term intensive therapy of IDDM patients with clinically overt autonomic neuropathy: effects on hypoglycemia awareness and counterregulation. Fanelli C, et al. **Diabetes** 1997 Jul;46(7):1172–81
Saccade–related burst neurons with torsional and vertical on–directions in the interstitial nucleus of Cajal of the alert monkey. Helmchen C, et al. **Exp Brain Res** 1996 Nov; 112(1):63–78
Residual vision with awareness in the field contralateral to a partial or complete functional hemisphere rectomy. Wessinger CM, et al. **Neuropsychologia** 1996 Nov; 34(11):1129–37
Attention and somatic awareness in chronic pain. Eccleston C, et al. **Pain** 1997 Aug;72(1–2):209–15
Anomalous anticipatory response on randomized future conditions. Bierman DJ, et al. **Percept Mot Skills** 1997 Apr; 84(2):689–90
Lucid dreaming and the mind–body relationship: a model for the cognitive and physiological variations in rapid eye movement sleep. Lequerica A. **Percept Mot Skills** 1996 Aug;83(1):331–6 (17 ref.)
Feelings of past lives as expected perturbations within the neurocognitive processes that generate the sense of self: contributions from limbic lability and vectorial hemisphericity. Persinger MA. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1107–21
Event–related brain potential correlates of two states of conscious awareness in memory. Düzel E, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5973–8
The fourth state of consciousness: the Thuriya Avastha. Ramamurthi B. **Psychiatry Clin Neurosci** 1995 May; 49(2):107–10 (0 ref.)
Toward a theory of episodic memory: the frontal lobes and autonoetic consciousness. Wheeler MA, et al. **Psychol Bull** 1997 May;121(3):331–54 (155 ref.)
Affective learning: awareness and aversion. Hamm AO, et al. **Psychophysiology** 1996 Nov;33(6):698–710
Visual system provides clues to how the brain perceives [news] Barinaga M. **Science** 1997 Mar 14;275(5306):1583–5
Brain regions responsive to novelty in the absence of awareness. Berns GS, et al. **Science** 1997 May 23; 276(5316):1272–5
Recent work on consciousness: philosophical, theoretical, and empirical. Churchland PM, et al. **Semin Neurol** 1997 Jun; 17(2):179–86 (17 ref.)
The neural basis of aware and unaware forms of memory. Verfaellie M, et al. **Semin Neurol** 1997 Jun;17(2):153–61 (90 ref.)
[Insight phenomenon in the regulation of time of performance of behavior acts in monkey (Macaca mulatta)] Pirogov AA, et al. **Dokl Akad Nauk** 1997 Jul;355(2):279–81 **(Rus)**

AXENIC ANIMALS see **GERM–FREE LIFE**

AXEROPHTHAL see **RETINALDEHYDE**

AXIAL PATTERNING (EMBRYOLOGY) see **BODY PATTERNING**

AXILLA

Extramammary Paget's disease [letter; comment] Burrows NP, et al. **Acta Derm Venereol** 1997 Jan;77(1):78. Comment on: Acta Derm Venereol 1996 Mar;76(2):173–4.
The surgical and oncologic significance of the axillary arch during axillary lymphadenectomy. Petrasek AJ, et al. **Can J Surg** 1997 Feb;40(1):44–7
Endoscopic exploration and lymph node sampling of the axilla. Preliminary findings of a randomized pilot study comparing clinical and anatomo–pathologic results of endoscopic axillary lymph node sampling with traditional surgical treatment. Salvat J, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27; 70(2):165–73
A case of triple extramammary Paget's disease. Koseki S, et al. **J Dermatol** 1997 Aug;24(8):535–8 (8 ref.)
A comparison of the tympanic and axillary temperatures of

the preterm and term infant. Hicks MA. **J Perinatol** 1996 Jul-Aug;16(4):261-7

A simplified maneuver for transarterial approach to axillary block for use by a single anesthesiologist--needs more explanation! [letter; comment] Moore DC. **Reg Anesth** 1997 May-Jun;22(3):293-4. Comment on: Reg Anesth 1996 May-Jun;21(3):273-4.

ANATOMY & HISTOLOGY

MR and CT anatomy of the axilla. Hergan K, et al. **Acta Radiol** 1997 Mar;38(2):198-205

An axillary arch. Yüksel M, et al. **Clin Anat** 1996;9(4):252-4

INNERVATION

Direct injury to the axillary nerve in athletes playing contact sports. Perlmutter GS, et al. **Am J Sports Med** 1997 Jan-Feb;25(1):65-8

Results of nerve grafting for injuries of the axillary and suprascapular nerves. Mikami Y, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):527-31

Full exposure of the axillary and suprascapular nerves. Ochiai N, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):532-3

Neurologic injury from axillary block anesthesia. Stark RH. **J Hand Surg [Am]** 1996 May;21(3):391-6

The internal topography of the axillary nerve: an anatomic and histologic study as it relates to microsurgery. Aszmann OC, et al. **J Reconstr Microsurg** 1996 Aug;12(6):359-63

PATHOLOGY

Re: Axillary breast tissue: clinical presentation and surgical treatment [letter; comment] Baruchin AM, et al. **Ann Plast Surg** 1996 Jun;36(6):661-2. Comment on: Ann Plast Surg 1995 Oct;35(4):356-60.

Brown patches, skin tags on axilla. Are this patient's velvety plaques related to his obesity and diabetes? Levine N. **Geriatrics** 1996 Oct;51(10):27

Primary breast cancer in aberrant breast tissue in the axilla. Yerra L, et al. **South Med J** 1997 Jun;90(6):661-2 (9 ref.)

Differential diagnosis of axillary masses. de Andrade JM, et al. **Tumori** 1996 Nov-Dec;82(6):596-9

RADIATION EFFECTS

Dose distributions through the supraclavicular-axillary region of patients undergoing breast cancer treatment. Saw CB, et al. **Med Dosim** 1996 Fall;21(3):133-7

RADIOGRAPHY

MR and CT anatomy of the axilla. Hergan K, et al. **Acta Radiol** 1997 Mar;38(2):198-205

RADIONUCLIDE IMAGING

Bilateral axillary lymph node uptake of radiotracer during lower extremity lymphoscintigraphy. Howarth DM, et al. **J Nucl Med** 1997 Apr;38(4):522-5

SURGERY

A new approach in axillary hidradenitis treatment: the scapular island flap. Amarante J, et al. **Aesthetic Plast Surg** 1996 Sep-Oct;20(5):443-6

Fibrin sealant reduces serous drainage and allows for earlier drain removal after axillary dissection: a randomized prospective trial. Moore MM, et al. **Am Surg** 1997 Jan; 63(1):97-102

Excision of subcutaneous tissue for the treatment of axillary osmidrosis. Tung TC, et al. **Br J Plast Surg** 1997 Jan; 50(1):61-6 (15 ref.)

Use of seven-flap plasty for the treatment of axillary and groin postburn contractures. Karacaoğlan N, et al. **Burns** 1996 Feb;22(1):69-72

Carbon dioxide laser treatment vs subcutaneous resection of axillary osmidrosis. Park JH, et al. **Dermatol Surg** 1997 Apr; 23(4):247-51

Is axillary lymph node dissection necessary in routine management of breast cancer? No. Cady B. **Important Adv Oncol** 1996;:251-65 (119 ref.)

Is axillary lymph node dissection necessary in the routine management of breast cancer? Yes. Moore MP, et al. **Important Adv Oncol** 1996;:245-50 (53 ref.)

A classic surgical method for the treatment of axillary osmidrosis [letter] Battal NM, et al. **Plast Reconstr Surg** 1997 Aug;100(2):550-1

AXILLARY ARTERY

Use of a pulse oximeter during performance of an axillary plexus block [letter] Okuda Y, et al. **Anaesthesia** 1997 Jul; 52(7):717-8

Axilloaxillary cardiopulmonary bypass: a practical alternative to femorofemoral bypass. Bichell DP, et al. **Ann Thorac Surg** 1997 Sep;64(3):702-5

Diagnosis and management of arterial compression at the thoracic outlet. Gelabert HA, et al. **Ann Vasc Surg** 1997 Jul;11(4):359-66

Axillary artery cannulation for cardiopulmonary bypass in the presence of diseased ascending aorta [letter] Isomura T, et al. **Eur J Cardiothorac Surg** 1996;10(6):481

Atheroembolic occlusion of the left axillary artery after percutaneous transluminal coronary angioplasty [letter] Chen GY, et al. **Int J Cardiol** 1997 Aug 29;61(1):97-8

Transbrachial endovascular exclusion of an axillary artery pseudoaneurysm with PTFE-covered stents. Marston WA, et al. **J Endovasc Surg** 1995 May;2(2):172-6

Endovascular management of unusual aneurysms of the axillary and subclavian arteries. Sullivan TM, et al. **J Endovasc Surg** 1996 Nov;3(4):389-95

Stent-graft failure in a patient with a connective tissue disorder. Hovsepian DM, et al. **J Vasc Interv Radiol** 1997 Sep-Oct;8(5):789-93

Percutaneous deflation of a vertebral artery occlusion balloon that migrated to the axillary artery. Kallmes DF, et al. **J Vasc Interv Radiol** 1997 Sep-Oct;8(5):809-12

Floating thrombus in the ascending aorta: a rare cause of peripheral emboli. Kalangos A, et al. **J Vasc Surg** 1997 Jul;26(1):150-4 (22 ref.)

Thoracic outlet arterial compression: clinical features and surgical management. Matsumura JS, et al. **Semin Vasc Surg** 1996 Jun;9(2):125-33

False aneurysm of the axillary artery caused by graft infection: report of a case. Yamamoto K, et al. **Surg Today** 1997;27(4):376-8

[Axillary-subclavian thrombosis: review of its etiology and features in recent years] Pintor Holguín E, et al. **An Med Interna** 1997 Feb;14(2):67-70 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

A rare case: the medical cord of the brachial plexus sandwiched between the axillary and superficial brachial arteries. Nakatani T, et al. **Kaibogaku Zasshi** 1997 Apr; 72(2):151-4

ANATOMY & HISTOLOGY

Case report: bilateral location of the axillary artery posterior to the medial cord of the brachial plexus [letter] Nakatani T, et al. **J Anat** 1996 Oct;189 (Pt 2):457-9

[Examination of the courses of the arteries in the axillary region. II. The course of the axillary artery in the case of Adachi's C-type brachial plexus] Aizawa Y, et al. **Kaibogaku Zasshi** 1996 Apr;71(2):92-105 (Eng. Abstr.) **(Jpn)**

INJURIES

Late vascular complication after fracture of the proximal humerus. Hildingsson C, et al. **Arch Orthop Trauma Surg** 1996;115(6):357-8

Successful non-surgical management of traumatic pseudoaneurysm of the axillary artery by duplex guided compression obliteration. Szendro G, et al. **Eur J Vasc Endovasc Surg** 1997 May;13(5):513-4

Iatrogenic pseudoaneurysm of the axillary artery: the role of color Doppler sonography. Sustić A, et al. **J Clin Ultrasound** 1996 Jul-Aug;24(6):323-5

Rehabilitation of patient with brachial plexus lesion and break in axillary artery. Case study. Bajuk S, et al. **J Hand Ther** 1996 Oct-Dec;9(4):399-403

Arterial injury of the axilla: an unusual case after blunt trauma of the shoulder. Adovasio R, et al. **J Trauma** 1996 Oct; 41(4):754-6

[Subcapital humerus fracture with lesion of the axillary artery. 2 case reports and review of the literature] Marty B, et al. **Unfallchirurg** 1996 Feb;99(2):154-7 (19 ref.) (Eng. Abstr.) **(Ger)**

[Traumatic lesion of the subclavian and axillary arteries] Giordanengo F, et al. **Minerva Cardioangiol** 1997 May; 45(5):207-13 (Eng. Abstr.) **(Ita)**

[Posttraumatic pseudoaneurysm of the axillary artery after anterior dislocation of the shoulder: a case report] Gaspar M, et al. **Chirurgia (Bucur)** 1996 Nov-Dec;45(6):317-20 (Eng. Abstr.) **(Rum)**

PATHOLOGY

Ischemia of the throwing hand in major league baseball pitchers: embolic occlusion from aneurysms of axillary artery branches. Kee ST, et al. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):979-82

PHYSIOLOGY

Anterior chest wall axillary artery to contralateral axillary vein graft for vascular access in hemodialysis. Ono K, et al. **Artif Organs** 1995 Dec;19(12):1233-6

SURGERY

Minimally invasive axillary-coronary artery bypass. Knight WL, et al. **Ann Thorac Surg** 1997 Jun;63(6):1776-7

Axillofemoral bypass graft fracture. Friedman SG, et al. **Ann Vasc Surg** 1996 Sep;10(5):490-2

Temporary axillo-femoral bypass graft for renal transplant protection during aortic aneurysm repair. Giulini SM, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):575-8

Long-term results with axillo-axillary bypass grafts for symptomatic subclavian artery insufficiency. Chang JB, et al. **J Vasc Surg** 1997 Jan;25(1):173-8

AXILLARY VEIN

2-D time-of-flight (TOF) MRA of thrombophlebitis of upper extremity and subclavian veins. A case report. Chang YC, et al. **Angiology** 1996 Oct;47(10):1019-22

Axilloaxillary cardiopulmonary bypass: a practical alternative to femorofemoral bypass. Bichell DP, et al. **Ann Thorac Surg** 1997 Sep;64(3):702-5

A multidisciplinary approach to the treatment of Paget-Schroetter syndrome. Adelman MA, et al. **Ann Vasc Surg** 1997 Mar;11(2):149-54

Pulmonary embolism from axillosubclavian thrombosis on a rehabilitation unit: case report. Kissel DJ. **Arch Phys Med Rehabil** 1997 Mar;78(3):319-23 (44 ref.)

Treatment alternatives for axillary-subclavian vein thrombosis: long-term follow-up. AbuRahma AF, et al. **Cardiovasc Surg** 1996 Dec;4(6):783-7

Primary subclavian-axillary vein thrombosis: consensus and commentary. Rutherford RB, et al. **Cardiovasc Surg** 1996 Aug;4(4):420-3 (15 ref.)

Upper extremity DVT. Correlation of MR and nuclear medicine flow imaging. Fielding JR, et al. **Clin Imaging** 1997 Jul-Aug;21(4):260-3

Local thrombolytic therapy as part of a multidisciplinary approach to acute axillosubclavian vein thrombosis (Paget-Schroetter syndrome). Sheeran SR, et al. **J Vasc Interv Radiol** 1997 Mar-Apr;8(2):253-60

Initial experience with venous stents in exertional axillary-subclavian vein thrombosis. Meier GH, et al. **J Vasc Surg** 1996 Dec;24(6):974-81; discussion 981-3

Cephalic vein cutdown: a new approach [letter] Chitkara N, et al. **Trop Doct** 1997 Jul;27(3):192

[Long-term anticoagulation therapy in cervical ribs?] Hiller E. **Internist (Berl)** 1996 Dec;37(12):1272 **(Ger)**

ABNORMALITIES

Ulnar distribution of reflex sympathetic dystrophy due to compression of the brachial plexus by a primary venous malformation. Magnussen JS, et al. **Skeletal Radiol** 1997 May;26(5):303-5

PHYSIOLOGY

Anterior chest wall axillary artery to contralateral axillary vein graft for vascular access in hemodialysis. Ono K, et al. **Artif Organs** 1995 Dec;19(12):1233-6

AXIOGRAPHY see **JAW RELATION RECORD**

AXIS

ABNORMALITIES

[Atlanto-axial dislocation in os odontoideum] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):588-90 **(Ger)**

EMBRYOLOGY

Axis specification in animal development. Goldstein B, et al. **Bioessays** 1997 Feb;19(2):105-16 (82 ref.)

Early developmental expression and experimental axis determination by the chicken Vg1 gene. Seleiro EA, et al. **Curr Biol** 1996 Nov 1;6(11):1476-86

GROWTH & DEVELOPMENT

N-acetyl-cysteine causes a late re-specification of the anteroposterior axis in the Xenopus embryo. Gatherer D, et al. **Dev Dyn** 1996 Apr;205(4):395-409

INJURIES

Classification and treatment of axis body fractures. Fujimura Y, et al. **J Orthop Trauma** 1996;10(8):536-40

Acute axis fractures. Analysis of management and outcome in 340 consecutive cases. Greene KA, et al. **Spine** 1997 Aug 15;22(16):1843-52

PATHOLOGY

Simple bone cyst of the axis. Park CK, et al. **Childs Nerv Syst** 1997 Mar;13(3):171-4 (6 ref.)

Extracranial vertebral arteriovenous fistula presenting as an osteolytic lesion of the axis. Case report. Shin SH, et al. **J Korean Med Sci** 1996 Dec;11(6):532-6

SURGERY

The ISG viewing wand: an application to atlanto-axial cervical surgery using the Le Fort I maxillary osteotomy. Dyer PV, et al. **Br J Oral Maxillofac Surg** 1995 Dec; 33(6):370-4

Treatment of traumatic spondylolisthesis of the axis with nonrigid immobilization: a review of 64 cases. Coric D, et al. **J Neurosurg** 1996 Oct;85(4):550-4

Treatment of traumatic spondylolisthesis of the axis with nonrigid immobilization: erratum [letter] Wilson JA. **J Neurosurg** 1996 Dec;85(6):1198

AXOLOTL see **AMBYSTOMA**

AXOLOTL, MEXICAN see **AMBYSTOMA MEXICANUM**

AXON-ASSOCIATED ADHESION MOLECULES see **CELL ADHESION MOLECULES, NEURONAL**

AXON REACTION see **RETROGRADE DEGENERATION**

AXON TERMINALS see **PRESYNAPTIC TERMINALS**

AXONAL TRANSPORT

Filament heterogeneity within the dystrophic neurites of senile plaques suggests blockage of fast axonal transport in Alzheimer's disease. Praprotnik D, et al. **Acta Neuropathol (Berl)** 1996;91(3):226–35

Fluoro–Green and Fluoro–Red: two new fluorescent retrograde tracers with a number of unique properties. Dong K, et al. **Brain Res** 1996 Oct 14;736(1–2):61–7

Factors that contribute to the transneuronal spread of herpes simplex virus. LaVail JH, et al. **J Neurosci Res** 1997 Aug 15;49(4):485–96

The axon as a metabolic compartment: protein degradation, transport, and maximum length of an axon. Miller KE, et al. **J Theor Biol** 1997 Jun 7;186(3):373–9

Anterograde, transneuronal transport of herpes simplex virus type 1 strain H129 in the murine visual system. Sun N, et al. **J Virol** 1996 Aug;70(8):5405–13

The role of axonal cytoskeleton in diabetic neuropathy. McLean WG. **Neurochem Res** 1997 Aug;22(8):951–6 (96 ref.)

The concept of uptake and retrograde transport of neurotrophic molecules during development: history and present status. Oppenheim RW. **Neurochem Res** 1996 Jul; 21(7):769–77

Reduced retrograde labelling with fluorescent tracer accompanies neuronal atrophy of basal forebrain cholinergic neurons in aged rats. De Lacalle S, et al. **Neuroscience** 1996 Nov;75(1):19–27

NGF signals ride a trolley to nucleus [news; comment] Barinaga M. **Science** 1997 Aug 22;277(5329):1037. Comment on: Science 1997 Aug 22;277(5329):1097–1100.

An NGF–TrkA–mediated retrograde signal to transcription factor CREB in sympathetic neurons [see comments] Riccio A, et al. **Science** 1997 Aug 22;277(5329):1097–100 . Comment in: Science 1997 Aug 22;277(5329):1037.

[Slow axonal transport in primate experimental glaucoma] Sawaguchi S, et al. **Nippon Ganka Gakkai Zasshi** 1996 Feb; 100(2):132–8 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Vanilloid (capsaicin) receptors in the rat: distribution in the brain, regional differences in the spinal cord, axonal transport to the periphery, and depletion by systemic vanilloid treatment. Szallasi A, et al. **Brain Res** 1995 Dec 12;703(1–2):175–83

Effect of neonatal axoplasmic transport attenuation in the infraorbital nerve on vibrissae–related patterns in the rat's brainstem, thalamus and cortex. Chiaia NL, et al. **Eur J Neurosci** 1996 Aug;8(8):1601–12

A novel action of collapsin: collapsin–1 increases antero– and retrograde axoplasmic transport independently of growth cone collapse. Goshima Y, et al. **J Neurobiol** 1997 Sep;33(3):316–28

Reversible blockade of retrograde axonal transport in the rat sciatic nerve by vincristine. Macfarlane BV, et al. **J Pharm Pharmacol** 1997 Jan;49(1):97–101

Signal transduction mechanism responsible for changes in axoplasmic transport caused by neurotransmitters. Takenaka T, et al. **Neurochem Res** 1996 May;21(5):553–6

Effects of exogenous triiodothyronine on fast axonal transport during tadpole metamorphosis. Tang HZ, et al. **Neurochem Res** 1996 Apr;21(4):489–94

Damage to the NBM leads to a sustained lesion–induced increase in functional NGF in the cortex. Shaughnessy LW, et al. **Neuroreport** 1997 Aug 18;8(12):2767–74

GENETICS

Medium weight neurofilament mRNA in goldfish Mauthner axoplasm. Weiner OD, et al. **Neurosci Lett** 1996 Aug 2; 213(2):83–6

PHYSIOLOGY

Axotomy affects the retrograde labeling of cervical and lumbar–cord–projecting rubrospinal neurons differently. Tseng GF, et al. **Anat Embryol (Berl)** 1996 Nov; 194(5):457–64

Ca2+/calmodulin–dependent protein kinase type IV in dorsal root ganglion: colocalization with peptides, axonal transport and effect of axotomy. Ji RR, et al. **Brain Res** 1996 May 20;721(1–2):167–73

Early retrograde effects of blocking axoplasmic transport in the axons of developing neurons. Primi MP, et al. **Brain Res Dev Brain Res** 1997 Apr 18;99(2):259–62

The beta–amyloid domain is essential for axonal sorting of amyloid precursor protein. Tienari PJ, et al. **EMBO J** 1996 Oct 1;15(19):5218–29

Localization, differential expression and retrograde axonal transport suggest physiological role of FGF–2 in spinal autonomic neurons of the rat. Blottner D, et al. **Eur J Neurosci** 1997 Feb;9(2):368–77

Delivery of recombinant tetanus–superoxide dismutase proteins to central nervous system neurons by retrograde axonal transport. Figueiredo DM, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):546–54

Neurons of the claustrum projecting to the motor and somatosensory cortex in the rabbit--assessment with the method of retrograde transport of fluorescent tracers. Kowiański P, et al. **Folia Morphol (Warsz)** 1996;55(4):350–2

Delivery of newly synthesized tubulin to rapidly growing distal axons of sympathetic neurons in compartmented cultures. Campenot B, et al. **J Cell Biol** 1996 Nov; 135(3):701–9

Long–term effects of neonatal axoplasmic transport attenuation on the organization of the rat's trigeminal system. Chiaia NL, et al. **J Comp Neurol** 1997 May 5; 381(2):219–29

Glutamatergic connections of the auditory midbrain: selective uptake and axonal transport of D–[3H]aspartate. Saint Marie RL. **J Comp Neurol** 1996 Sep 16;373(2):255–70

Axonal transport of synaptic vesicle proteins in the rat optic nerve. Li JY, et al. **J Neurobiol** 1997 Feb;32(2):237–50

Rapid anterograde axonal transport of the syntaxin–SNAP 25–VAMP complex. Shiff G, et al. **J Neurochem** 1997 Apr; 68(4):1663–7

Increased solubility of high–molecular–mass neurofilament subunit by suppression of dephosphorylation: its relation to axonal transport. Tsuda M, et al. **J Neurochem** 1997 Jun;68(6):2558–65

Ultrastructural evidence for the lack of co–transport of B–50/GAP–43 and calmodulin in myelinated axons of the regenerating rat sciatic nerve. Verkade P, et al. **J Neurocytol** 1996 Oct;25(10):583–95

Trk receptors function as rapid retrograde signal carriers in the adult nervous system. Bhattacharyya A, et al. **J Neurosci** 1997 Sep 15;17(18):7007–16

Functional analysis of dynactin and cytoplasmic dynein in slow axonal transport. Dillman 3rd JF, et al. **J Neurosci** 1996 Nov 1;16(21):6742–52

Axonal transport blockade in the neonatal rat optic nerve induces limited retinal ganglion cell death. Fagiolini M, et al. **J Neurosci** 1997 Sep 15;17(18):7045–52

Increased neurite outgrowth of cultured rat dorsal root ganglion cells following transection or inhibition of axonal transport of the sciatic nerve. White DM, et al. **Neurosci Lett** 1996 Apr 19;208(2):93–6

AXONS

Acute motor axonal neuropathy: an antibody–mediated attack on axolemma. Hafer–Macko C, et al. **Ann Neurol** 1996 Oct;40(4):635–44

Intrinsic neuronal determinants that promote axonal sprouting and elongation. Caroni P. **Bioessays** 1997 Sep; 19(9):767–75 (69 ref.)

Excitability changes in human sensory and motor axons during hyperventilation and ischaemia. Mogyoros I, et al. **Brain** 1997 Feb;120 (Pt 2):317–25

1896–1996: the centennial of the axon. Bentivoglio M. **Brain Res Bull** 1996;41(6):319–25

Continuous renewal of the axonal pathway sensor apparatus by insertion of new sensor molecules into the growth cone membrane. Vogt L, et al. **Curr Biol** 1996 Sep 1;6(9):1153–8

Two Eph receptor tyrosine kinase ligands control axon growth and may be involved in the creation of the retinotectal map in the zebrafish. Brennan C, et al. **Development** 1997 Feb;124(3):655–64

Evidence of axonal reinnervation in two arthropod–borne viral encephalomyelitis patients. Kuntzer T, et al. **Eur Neurol** 1996;36(1):57–9

Effects of acyclovir on sensory axonal neuropathy, segmental motor paresis and postherpetic neuralgia in herpes zoster patients. Mondelli M, et al. **Eur Neurol** 1996;36(5):288–92

Beta 4 integrin and other Schwann cell markers in axonal neuropathy. Quattrini A, et al. **Glia** 1996 Aug;17(4):294–306

Axonal neuropathy associated with monoclonal gammopathy of undetermined significance. Gorson KC, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):163–8

Peripheral course of genioglossal motor axons within the hypoglossal nerve of the rat. Lee S, et al. **Laryngoscope** 1996 Oct;106(10):1274–9

An ultrastructural study of the ciliary ganglia of the cat and monkey (Macaca fascicularis) following preganglionic axotomy. Zhang YL, et al. **Neurodegeneration** 1996 Dec; 5(4):367–77

The Caenorhabditis elegans gene unc–76 and its human homologs define a new gene family involved in axonal outgrowth and fasciculation. Bloom L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3414–9

Axonal sprouting and synaptogenesis in temporal lobe epilepsy: possible pathogenetic and therapeutic roles of neurite growth inhibitory factors. Larner AJ. **Seizure** 1995 Dec;4(4):249–58 (68 ref.)

The distribution and morphology of LGN K pathway axons within the layers and CO blobs of owl monkey V1. Ding Y, et al. **Vis Neurosci** 1997 Jul–Aug;14(4):691–704

[Guillain–Barré syndrome of axonal type, Campylobacter jejuni infection and anti–ganglioside GM1 antibodies] Attarian S, et al. **Rev Neurol (Paris)** 1997 Apr;153(3):205–8 (12 ref.) (Eng. Abstr.) **(Fre)**

[Anatomic delineation by myelin] Lozano–Alcázar J. **Gac Med Mex** 1996 Sep–Oct;132(5):537 **(Spa)**

CHEMISTRY

Expression of the ubiquitin carboxyl–terminal hydrolase PGP 9.5 in axons following spinal cord compression trauma. An immunohistochemical study in the rat. Li GL, et al. **APMIS** 1997 May;105(5):384–90

The presence of the 50–kDa subunit of dynactin complex in the nerve growth cone. Abe TK, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):295–9

Immunohistochemical localization of 5–HT2A receptors in peripheral sensory axons in rat glabrous skin. Carlton SM, et al. **Brain Res** 1997 Jul 25;763(2):271–5

Histological markers of neuronal, axonal and astrocytic changes after lateral rigid impact traumatic brain injury. Dunn–Meynell AA, et al. **Brain Res** 1997 Jun 27; 761(1):25–41

Occurrence of axons with certain immunohistochemical markers in teleost gingiva and teeth. Tuisku F, et al. **Brain Res** 1996 Aug 5;729(1):137–41

Developmental changes in axon terminals visualized by immunofluorescence for the growth–associated protein, GAP–43, in the robust nucleus of the archistriatum of the zebra finch. Sakaguchi H, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):245–51

AvGp50, a predominantly axonally expressed glycoprotein, is a member of the IgLON's subfamily of cell adhesion molecules (CAMs). Hancox KA, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):273–85

Ultrastructural localization of Shaker–related potassium channel subunits and synapse–associated protein 90 to septate–like junctions in rat cerebellar Pinceaux. Laube G, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):51–61

Expression of a new M(r) 70–kDa dystrophin–related protein in the axon of peripheral nerves from Torpedo marmorata. Rivier F, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):19–26

Microtubules and axonal growth. Baas PW. **Curr Opin Cell Biol** 1997 Feb;9(1):29–36 (32 ref.)

Synergistic neurite–outgrowth promoting activity of two related axonal proteins, Bravo/Nr–CAM and G4/Ng–CAM in chicken retinal explants. Morales G, et al. **Eur J Neurosci** 1996 Jun;8(6):1098–105

Neuropeptide Y expression in the trigeminal ganglion and mandibular division of the trigeminal nerve after inferior alveolar nerve axotomy in young rats. Fristad I, et al. **Exp Neurol** 1996 Dec;142(2):276–86

Amphiphysin II (SH3P9; BIN1), a member of the amphiphysin/Rvs family, is concentrated in the cortical cytomatrix of axon initial segments and nodes of ranvier in brain and around T tubules in skeletal muscle. Butler MH, et al. **J Cell Biol** 1997 Jun 16;137(6):1355–67

Molecular composition of the node of Ranvier: identification of ankyrin–binding cell adhesion molecules neurofascin (mucin+/third FNIII domain–) and NrCAM at nodal axon segments. Davis JQ, et al. **J Cell Biol** 1996 Dec; 135(5):1355–67

Spatial relationship between neurotensinergic axons and cholinergic neurons in the rat basal forebrain: a light microscopic study with three–dimensional reconstruction. Morin AJ, et al. **J Chem Neuroanat** 1996 Apr;10(2):147–56

Retinal and non–retinal inputs upon retinopetal RMA neurons in the lamprey: a light and electron microscopic study combining HRP axonal tracing and GABA immunocytochemistry. Rio JP, et al. **J Chem Neuroanat** 1996 Nov;12(1):51–70

Molecular characterization of E587 antigen: an axonal recognition molecule expressed in the goldfish central nervous system. Giordano S, et al. **J Comp Neurol** 1997 Jan 13;377(2):286–97

Leech photoreceptors project their galectin–containing processes into the optic neuropils where they contact AP cells. Tai MH, et al. **J Comp Neurol** 1996 Jul 22; 371(2):235–48

Definition of a sequence unique in beta II spectrin required for its axon–specific interaction with fodaxin (A60). Hayes NV, et al. **J Neurochem** 1997 Apr;68(4):1686–95

The structure of the neurofilament cytoskeleton in the squid giant axon and synapse. Martin R. **J Neurocytol** 1996 Sep; 25(9):547–54

Molecular cloning and characterization of a novel mRNA present in the squid giant axon. Chun JT, et al. **J Neurosci Res** 1997 Jul 15;49(2):144–53

Immunocytochemical study of nerve fibers containing substance P in the junctional epithelium of rats. Tanaka T, et al. **J Periodontal Res** 1996 Apr;31(3):187–94

Immunohistochemical and enzyme histochemical characteristics of short axon cells in the olfactory bulb of the golden hamster. Nakajima T, et al. **J Vet Med Sci** 1996 Sep;58(9):903–8

Glutamate in the glomus cells of the cat carotid body: immunocytochemistry and in vitro release. Torrealba F, et al. **Neurochem Int** 1996 May–Jun;28(5–6):625–31

3–D tracing of biocytin–labelled pallido–thalamic axons in the monkey. Arecchi–Bouchhioua P, et al. **Neuroreport** 1996 Apr 10;7(5):981–4

Distribution of histaminergic axonal fibres in the vestibular nuclei of the cat. Tighilet B, et al. **Neuroreport** 1996 Mar 22;7(4):873–8

Ultrastructural relationships of the pro–opiomelanocortin axons with the serotoninergic neurons in the dorsal raphe nucleus of the rat. Léger L, et al. **Neurosci Lett** 1997 Feb 7;222(3):155–8

Molecular architecture of the specialized axonal membrane at the node of Ranvier. Bennett V, et al. **Soc Gen Physiol Ser** 1997;52:107–20 (75 ref.)

Calcium–channel subtypes in the somata and axon terminals of magnocellular neurosecretory cells. Fisher TE, et al. **Trends Neurosci** 1996 Oct;19(10):440–4 (54 ref.)

[Specific properties and primary structure of BASP1 protein, initially detected in neuronal axonal terminals] Mosevitskiĭ MI, et al. **Biokhimiia** 1996 Jul;61(7):1209–20 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

A comparison of the local anesthetic effects of meperidine, fentanyl, and sufentanil on dorsal root axons. Jaffe RA, et al. **Anesth Analg** 1996 Oct;83(4):776–81

Pregnancy does not increase susceptibility to bupivacaine in spinal root axons. Dietz FB, et al. **Anesthesiology** 1997 Sep; 87(3):610–6

The vehicle for cyclosporine is neurotoxic in vitro [letter; comment] Windebank AJ. **Ann Neurol** 1997 Apr; 41(4):563–4. Comment on: Ann Neurol 1996 Nov;40(5):750–8.

The concept and target of promotion of axonopathies. Lotti M. **Arch Toxicol Suppl** 1997;19:331–6 (45 ref.)

Alteration in neurofilament axonal transport in the sciatic nerve of the diisopropyl phosphorofluoridate (DFP)–treated hen. Gupta RP, et al. **Biochem Pharmacol** 1997 Jun 15;53(12):1799–806

Monocarboxylic acids enhance the anesthetic action of procaine by decreasing intracellular pH. Katsuki H, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):273–82

Transforming growth factor–beta 1 promotes re–elongation of injured axons of cultured rat hippocampal neurons. Abe K, et al. **Brain Res** 1996 Jun 3;723(1–2):206–9

A continuous striatal infusion of 6–hydroxydopamine produces a terminal axotomy and delayed behavioral effects. Jones BE, et al. **Brain Res** 1996 Feb 19; 709(2):275–84

The neurite–promoting effect of laminin is mediated by different mechanisms in embryonic and adult regenerating mouse optic axons in vitro. Bates CA, et al. **Dev Biol** 1997 Jan 1;181(1):91–101

Tenascin–C synthesis and influence on axonal growth during rat cortical development. Götz M, et al. **Eur J Neurosci** 1997 Mar;9(3):496–506

The effect of chronic lithium treatment on the calibre of axons and nerve fibres in the rat sural nerve. Licht RW, et al. **Eur Neuropsychopharmacol** 1997 May;7(2):95–8

Capsaicin preferentially affects small–diameter acutely isolated rat dorsal root ganglion cell bodies. Del Mar LP, et al. **Exp Brain Res** 1996 Sep;111(1):30–4

BDNF prevents and reverses adult rat motor neuron degeneration and induces axonal outgrowth. Kishino A, et al. **Exp Neurol** 1997 Apr;144(2):273–86

Hydrogels containing peptide or aminosugar sequences implanted into the rat brain: influence on cellular migration and axonal growth. Plant GW, et al. **Exp Neurol** 1997 Feb; 143(2):287–99

Treatment of the chronically injured spinal cord with neurotrophic factors can promote axonal regeneration from supraspinal neurons. Ye JH, et al. **Exp Neurol** 1997 Jan; 143(1):70–81

Triphenyl phosphite and diisopropylphosphorofluoridate produce separate and distinct axonal degeneration patterns in the central nervous system of the rat. Lehning EJ, et al. **Fundam Appl Toxicol** 1996 Jan;29(1):110–8

MAP–1B/TAU functional redundancy during laminin–enhanced axonal growth. DiTella MC, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):467–77

Antibody that neutralizes myelin–associated inhibitors of axon growth does not interfere with recognition of target–specific guidance information by rat retinal axons. Bähr M, et al. **J Neurobiol** 1996 Jun;30(2):281–92

Glucosylceramide synthesis is required for basic fibroblast growth factor and laminin to stimulate axonal growth. Boldin S, et al. **J Neurochem** 1997 Feb;68(2):882–5

Activation of pharmacologically distinct metabotropic glutamate receptors depresses reticulospinal–evoked monosynaptic EPSPs in the lamprey spinal cord. Krieger P, et al. **J Neurophysiol** 1996 Dec;76(6):3834–41

Intraaxonal injection of neurobiotin reveals the long–ranging projections of A beta–hair follicle afferent fibers to the cat dorsal horn. Wilson P, et al. **J Neurophysiol** 1996 Jul; 76(1):242–54

Cellular delivery of neurotrophin–3 promotes corticospinal axonal growth and partial functional recovery after spinal cord injury. Grill R, et al. **J Neurosci** 1997 Jul 15; 17(14):5560–72

Selective destruction of stable microtubules and axons by inhibitors of protein serine/threonine phosphatases in cultured human neurons. Merrick SE, et al. **J Neurosci** 1997 Aug 1;17(15):5726–37

Platelet–derived growth factor delays oligodendrocyte differentiation and axonal myelination in vivo in the anterior medullary velum of the developing rat. Butt AM, et al. **J Neurosci Res** 1997 Jun 15;48(6):588–96

Short exposure to methylazoxymethanol causes a long–term inhibition of axonal outgrowth from cultured embryonic rat hippocampal neurons. Hoffman JR, et al. **J Neurosci Res** 1996 Nov 1;46(3):349–59

Comparative dose–dependence study of FK506 and cyclosporin A on the rate of axonal regeneration in the rat sciatic nerve. Wang MS, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):1084–93

Solvent–dependent rate–limiting steps in the conformational change of sodium channel gating in squid giant axon [published erratum appears in J Physiol (Lond) 1997 Mar 15;499(Pt 3):849] Kukita F. **J Physiol (Lond)** 1997 Jan 1; 498 (Pt 1):109–33

Pharmacological induction of rhythmical activity and plateau action potentials in unmyelinated axons. Pichon Y. **J Physiol Paris** 1995;89(4–6):171–80

Axonal neuropathy in a patient receiving interferon–alpha therapy for chronic hepatitis C [letter] Tambini R, et al. **J Rheumatol** 1997 Aug;24(8):1656–7

Potentiation of organophosphorus compound–induced delayed neurotoxicity (OPIDN) in the central and peripheral nervous system of the adult hen: distribution of axonal lesions. Randall JC, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):571–90

Effects of basic fibroblast growth factor on hippocampal neurons after axonal injury. Himmelseher S, et al. **J Trauma** 1997 Apr;42(4):659–64

Blockade of endogenous ligands of trkB inhibits formation of ocular dominance columns. Cabelli RJ, et al. **Neuron** 1997 Jul;19(1):63–76

Expression and herbimycin A–sensitive localization of pp125FAK in retinal growth cones. Worley TL, et al. **Neuroreport** 1996 Apr 26;7(6):1133–7

Dose–dependent response of mature cerebrovascular axons in vivo following intracranial infusion of nerve growth factor. Isaacson LG, et al. **Neurosci Lett** 1997 Jan 24; 222(1):21–4

Axonal regeneration of sensory nerves is delayed by continuous intrathecal infusion of nerve growth factor. Gold BG. **Neuroscience** 1997 Feb;76(4):1153–8

Brain–derived neurotrophic factor promotes axonal regeneration and long–term survival of adult rat spinal motoneurons in vivo. Novikov L, et al. **Neuroscience** 1997 Aug;79(3):765–74

Independent depressive mechanisms of GABA and (+/–)–8–hydroxy–dipropylaminotetralin hydrobromide on young rat spinal axons. Sakuma J, et al. **Neuroscience** 1996 Dec;75(3):927–38

Comparison of behavioral, vestibular, and axonal effects of subchronic IDPN in the rat. Llorens J, et al. **Neurotoxicol Teratol** 1997 Mar–Apr;19(2):117–27

Protein crosslinking correlates with axonal atrophy, swelling and degeneration in gamma–diketone neuropathy: commentary on forum position paper [comment] Graham DG. **Neurotoxicology** 1997;18(1):29–30; discussion 37–40. Comment on: Neurotoxicology 1997 ;18(1):7–22.

Synaptophysin immunoreactive axonal swelling in p–bromophenylacetylurea–induced neuropathy. Jortner BS, et al. **Neurotoxicology** 1997;18(1):161–8

The relevance of axonal swellings and atrophy to gamma–diketone neurotoxicity: a forum position paper [see comments] LoPachin RM, et al. **Neurotoxicology** 1997; 18(1):7–22 (107 ref.). Comment in: Neurotoxicology 1997 ;18(1):23–4; discussion 37–40. Comment in: Neurotoxicology 1997 ;18(1):25–8; discussion 37–40. Comment in: Neurotoxicology 1997 ;18(1):29–30; discussion 37–10. Comment in: Neurotoxicology 1997 ;18(1):31–2; discussion 37–40. Comment in: Neurotoxicology 1997 ;18(1):33–6; discussion 37–40.

Mechanistic importance of axonal atrophy and swelling in gamma–diketone axonopathy: commentary on forum position paper [comment] Sayre LM, et al. **Neurotoxicology** 1997;18(1):31–2; discussion 37–40. Comment on: Neurotoxicology 1997 ;18(1):7–22.

Neurofilamentous swellings and axonal atrophy are of unclear significance to diketone toxicity: commentary on forum position paper [comment] Sickles DW. **Neurotoxicology** 1997;18(1):33–6; discussion 37–40 (15 ref.) . Comment on: Neurotoxicology 1997 ;18(1):7–22.

Kinetics of grayanotoxin evoked modification of sodium channels in squid giant axons. Yakehiro M, et al. **Pflugers Arch** 1997 Feb;433(4):403–12

CS2–mediated cross–linking of erythrocyte spectrin and neurofilament protein: dose response and temporal relationship to the formation of axonal swellings. Valentine WM, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):95–105

Diisopropylfluorophosphate–induced depression of segmental monosynaptic transmission in neonatal rat spinal cord is also mediated by increased axonal activity. Deshpande SB, et al. **Toxicol Lett** 1997 Feb 7; 90(2–3):177–82

Action of babycurus–toxin 1 from the east African scorpion Babycurus centrurimorphus on the isolated cockroach giant axon. Ben Khalifa R, et al. **Toxicon** 1997 Jul;35(7):1069–80

[The effect of brain–derived neurotrophic factor on elongation of axons after transection with suture–morphometric evaluation] Ohnishi A, et al. **Sangyo Ika Daigaku Zasshi** 1997 Mar 1;19(1):23–8 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Superoxide dismutase–like immunoreactivity in spheroids in Hallervorden–Spatz disease. Nishiyama K, et al. **Acta Neuropathol (Berl)** 1997 Jan;93(1):19–23

Changes of NADPH–diaphorase activity in the lumbosacral intermediolateral neurons of the rat after pelvic axotomy. Ando A, et al. **Brain Res Bull** 1996;40(1):37–42

Localization of the calcium/calmodulin–dependent protein phosphatase, calcineurin, in the hindbrain and spinal cord of the rat. Strack S, et al. **J Comp Neurol** 1996 Nov 4; 375(1):66–76

Phospholipase A2 activity is required for regeneration of sensory axons in cultured adult sciatic nerves. Edström A, et al. **J Neurosci Res** 1996 Jan 15;43(2):183–9

Immunohistochemical and enzyme histochemical characteristics of short axon cells in the olfactory bulb of the golden hamster. Nakajima T, et al. **J Vet Med Sci** 1996 Sep;58(9):903–8

Induction of cyclo–oxygenase 2 in brains of patients with Down's syndrome and dementia of Alzheimer type: specific localization in affected neurones and axons. Oka A, et al. **Neuroreport** 1997 Mar 24;8(5):1161–4

Non–conventional role of lysosomal acid phosphatase in olfactory receptor axons: co–localization with growth–associated phosphoprotein–43. Wolff JR, et al. **Neuroscience** 1997 Aug;79(3):887–91

IMMUNOLOGY

Association of serotonin–like immunoreactive axons with nociceptive projection neurons in the caudal spinal trigeminal nucleus of the rat. Li JL, et al. **J Comp Neurol** 1997 Jul 21;384(1):127–41

Dual action of a carbohydrate epitope on afferent and efferent axons in cortical development. Henke–Fahle S, et al. **J Neurosci** 1996 Jul 1;16(13):4195–206

METABOLISM

Redistribution of axoplasm in the motor root in experimental diabetes. Bömers K, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):98–101

Increased expression of growth–associated protein 43 immunoreactivity in axons following compression trauma to rat spinal cord. Li GL, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):19–26

Pick's disease: hyperphosphorylated tau protein segregates to the somatoaxonal compartment. Probst A, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):588–96

Depolarization–induced slowing of Ca2+ channel deactivation in squid neurons. McFarlane MB. **Biophys J** 1997 Apr;72(4):1607–21

Localization and activation of substance P receptors in unmyelinated axons of rat glabrous skin. Carlton SM, et al. **Brain Res** 1996 Sep 23;734(1–2):103–8

Opioid receptors on peripheral sensory axons. Coggeshall RE, et al. **Brain Res** 1997 Aug 1;764(1–2):126–32

Changes in the isotype composition of beta–tubulin delivered to regenerating sensory axons by slow axonal transport. Hoffman PN, et al. **Brain Res** 1996 Dec 2;742(1–2):329–33

Reoxygenation of anoxic peripheral nerve myelinated axons promotes re–establishment of normal elemental composition. Lehning EJ, et al. **Brain Res** 1996 Apr 9; 715(1–2):189–96

Mechanisms of injury–induced calcium entry into peripheral nerve myelinated axons: in vitro anoxia and ouabain exposure. Lehning EJ, et al. **Brain Res** 1995 Oct 2; 694(1–2):158–66

Putative excitatory amino acid projections to the suprachiasmatic nucleus in the rat. Moga MM, et al. **Brain Res** 1996 Dec 16;743(1–2):171–7

Absence of co–localized glutamic acid decarboxylase and neuropeptides in noradrenergic axons of the rat spinal cord. Patel R, et al. **Brain Res** 1997 Feb 21;749(1):164–9

Characterization of a distinct set of intra–axonal ultrastructural changes associated with traumatically induced alteration in axolemmal permeability. Pettus EH, et al. **Brain Res** 1996 May 25;722(1–2):1–11

Elevation of either axoplasmic norepinephrine or sodium level induced release of norepinephrine from cardiac sympathetic nerve terminals. Yamazaki T, et al. **Brain Res** 1996 Oct 21;737(1–2):343–6

Neuropilin is a receptor for the axonal chemorepellent Semaphorin III. He Z, et al. **Cell** 1997 Aug 22;90(4):739–51

Molecular mechanisms mediating axon pathway formation. Johansen J, et al. **Crit Rev Eukaryot Gene Expr** 1997; 7(1–2):95–116 (158 ref.)

Axon guidance: motor–way madness. Stoker AW. **Curr Biol** 1996 Jul 1;6(7):794–7 (17 ref.)

Expression of a novel N–CAM glycoform (NOC–1) on axon tracts in embryonic Xenopus brain. Anderson RB, et al. **Dev Dyn** 1996 Nov;207(3):263–9

Shared and distinct functions of RAGS and ELF–1 in guiding retinal axons. Monschau B, et al. **EMBO J** 1997 Mar 17; 16(6):1258–67

Sek4 and Nuk receptors cooperate in guidance of commissural axons and in palate formation. Orioli D, et al. **EMBO J** 1996 Nov 15;15(22):6035–49

Cloning and characterization of a neural cell recognition molecule on axons of the retinotectal system and spinal cord. Brümmendorf T, et al. **Eur J Neurosci** 1997 Jun; 9(6):1105–16

Differential display reveals transcriptional up–regulation of the motor molecules for both anterograde and retrograde axonal transport during nerve regeneration. Su QN, et al. **Eur J Neurosci** 1997 Jul;9(7):1542–7

Neonatal damage to the rat's infraorbital nerve upregulates both galanin and neuropeptide Y in individual vibrissae–related primary afferent axons. Boylan CB, et al. **Exp Brain Res** 1996 Dec;112(3):475–84

Potential roles of gene expression change in adult rat spinal motoneurons following axonal injury: a comparison among c–jun, off–affinity nerve growth factor receptor (LNGFR), and nitric oxide synthase (NOS). Wu W. **Exp Neurol** 1996 Oct;141(2):190–200

Kinesin mutations cause motor neuron disease phenotypes by disrupting fast axonal transport in Drosophila. Hurd DD, et al. **Genetics** 1996 Nov;144(3):1075–85

Transfer of horseradish peroxidase from oligodendrocyte to axon in the myelinating neonatal rat optic nerve: artefact or transcellular exchange? Duncan A, et al. **Glia** 1996 Aug; 17(4):349–55

Ependymocytes and supra-ependymal axons in rat brain contain glutamate. Robinson SR, et al. **Glia** 1996 Aug; 17(4):345–8

Rat brain oligodendrocytes do not interact selectively with axons expressing different calcium-binding proteins. Weruaga-Prieto E, et al. **Glia** 1996 Feb;16(2):117–28

Radioligand binding and autoradiographic visualization of adenosine transport sites in human inferior vagal ganglia and their axonal transport along rat vagal afferent neurons. Castillo-Meléndez M, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1-2):36–42

Delivery of newly synthesized tubulin to rapidly growing distal axons of sympathetic neurons in compartmented cultures. Campenot B, et al. **J Cell Biol** 1996 Nov; 135(3):701–9

Axonal targeting of agrin in cultured rat dorsal horn neurons. Escher G, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):2959–66

Organelle motility and metabolism in axons vs dendrites of cultured hippocampal neurons. Overly CC, et al. **J Cell Sci** 1996 May;109 (Pt 5):971–80

Distribution and substrate properties of agrin, a heparan sulfate proteoglycan of developing axonal pathways. Halfter W, et al. **J Comp Neurol** 1997 Jun 23;383(1):1–17

Expression of the cell adhesion proteins BEN/SC1/DM-GRASP and TAG-1 defines early steps of axonogenesis in the human spinal cord. Karagogeos D, et al. **J Comp Neurol** 1997 Mar 17;379(3):415–27

Distribution of calretinin-immunoreactive septal axons in the normal and deafferented medial habenula of adult rats. Wilson JA, et al. **J Comp Neurol** 1996 Oct 28; 374(4):593–606

Fast inactivation of delayed rectifier K conductance in squid giant axon and its cell bodies. Mathes C, et al. **J Gen Physiol** 1997 Apr;109(4):435–48

Molecular identification of SqKv1A. A candidate for the delayed rectifier K channel in squid giant axon. Rosenthal JJ, et al. **J Gen Physiol** 1996 Sep;108(3):207–19

A nuclear localization signal targets proteins to the retrograde transport system, thereby evading uptake into organelles in aplysia axons. Schmied R, et al. **J Neurobiol** 1997 Aug;33(2):151–60

Differential compartmentalization of mRNAs in squid giant axon. Chun JT, et al. **J Neurochem** 1996 Nov;67(5):1806–12

Phosphorylation of neurofilament proteins in isolated goldfish Mauthner axoplasm. Raabe TD, et al. **J Neurochem** 1996 Mar;66(3):1214–21

Intracellular concentrations of major ions in rat myelinated axons and glia: calculations based on electron probe X-ray microanalyses. Stys PK, et al. **J Neurochem** 1997 May; 68(5):1920–8

Effects of colchicine application to preganglionic axons on choline acetyltransferase activity and acetylcholine content and release in the superior cervical ganglion. Tandon A, et al. **J Neurochem** 1996 Mar;66(3):1033–41

Differential regulation of fast axonally transported proteins during the early response of rat retinal ganglion cells to axotomy. Wodarczyk L, et al. **J Neurochem** 1997 Mar; 68(3):1114–23

Clusters of axonal Na+ channels adjacent to remyelinating Schwann cells. Novakovic SD, et al. **J Neurocytol** 1996 Jun;25(6):403–12

Differential autoreceptor control of somatodendritic and axon terminal dopamine release in substantia nigra, ventral tegmental area, and striatum. Cragg SJ, et al. **J Neurosci** 1997 Aug 1;17(15):5738–46

Clustering of voltage-sensitive sodium channels on axons is independent of direct Schwann cell contact in the dystrophic mouse. Deerinck TJ, et al. **J Neurosci** 1997 Jul 1;17(13):5080–8

Clustered voltage-gated Na+ channels in Aplysia axons. Johnston WL, et al. **J Neurosci** 1996 Mar 1;16(5):1730–9

Tau binds to the distal axon early in development of polarity in a microtubule- and microfilament-dependent manner. Kempf M, et al. **J Neurosci** 1996 Sep 15;16(18):5583–92

A spatial gradient of tau protein phosphorylation in nascent axons. Mandell JW, et al. **J Neurosci** 1996 Sep 15; 16(18):5727–40

An NF-kappaB-like transcription factor in axoplasm is rapidly inactivated after nerve injury in Aplysia. Povelones M, et al. **J Neurosci** 1997 Jul 1;17(13):4915–20

Mechanisms for the maintenance and eventual degradation of neurofilament proteins in the distal segments of severed goldfish mauthner axons. Raabe TD, et al. **J Neurosci** 1996 Mar 1;16(5):1605–13

The clustering of axonal sodium channels during development of the peripheral nervous system. Vabnick I, et al. **J Neurosci** 1996 Aug 15;16(16):4914–22

Schwann cells stimulated by axolemma-enriched fractions express cyclic AMP responsive element binding protein. Lee MM, et al. **J Neurosci Res** 1996 Oct 15;46(2):204–10

A membrane-bound heparan sulfate proteoglycan that is transiently expressed on growing axons in the rat brain. Watanabe E, et al. **J Neurosci Res** 1996 Apr 1;44(1):84–96

Spatiotemporal gradients of intra-axonal [Na+] after transection and resealing in lizard peripheral myelinated axons. David G, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):295–307

Activity-dependent properties of synaptic transmission at two classes of connections made by rat neocortical pyramidal axons in vitro. Thomson AM. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):131–47

Neuroendocrine cell-axonal complexes in the minor vestibular gland. Warner TF, et al. **J Reprod Med** 1996 Jun;41(6):397–402

The axon as a metabolic compartment: protein degradation, transport, and maximum length of an axon. Miller KE, et al. **J Theor Biol** 1997 Jun 7;186(3):373–9

EMX1 homeoprotein is expressed in cell nuclei of the developing cerebral cortex and in the axons of the olfactory sensory neurons. Briata P, et al. **Mech Dev** 1996 Jul; 57(2):169–80

Immunocytochemical investigations of sodium channels along nodal and internodal portions of demyelinated axons. England JD, et al. **Microsc Res Tech** 1996 Aug 1; 34(5):445–51 (51 ref.)

Axonal molecules of the immunoglobulin superfamily bearing a GPI anchor: their role in controlling neurite outgrowth. Faivre-Sarrailh C, et al. **Mol Cell Neurosci** 1997; 9(2):109–15 (51 ref.)

Impairment of fast axonal transport in the proximal axons of anterior horn neurons in amyotrophic lateral sclerosis. Sasaki S, et al. **Neurology** 1996 Aug;47(2):535–40

Low mobility of the Ca2+ buffers in axons of cultured Aplysia neurons. Gabso M, et al. **Neuron** 1997 Mar; 18(3):473–81

Axon patterning requires DN-cadherin, a novel neuronal adhesion receptor, in the Drosophila embryonic CNS. Iwai Y, et al. **Neuron** 1997 Jul;19(1):77–89

Fast transport and retrograde movement of huntingtin and HAP 1 in axons. Block-Galarza J, et al. **Neuroreport** 1997 Jul 7;8(9-10):2247–51

Gene expression of angiotensin II receptor subtypes in the cerebellar cortex of young rats. Jöhren O, et al. **Neuroreport** 1996 May 31;7(8):1349–52

Decreased neurofilament gene expression is an index of selective axonal hypotrophy in ageing. Kuchel GA, et al. **Neuroreport** 1996 May 31;7(8):1353–9

Immunohistochemical localization of enkephalin in peripheral sensory axons in the rat. Carlton SM, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):121–4

The synaptic structure of PACAP immunoreactive axons in the intermediolateral nucleus of the rat. Chiba T, et al. **Neurosci Lett** 1996 Aug 16;214(1):65–8

Localization of a metabotropic glutamate receptor, mGluR7, in axon terminals of presumed nociceptive, primary afferent fibers in the superficial layers of the spinal dorsal horn: an electron microscope study in the rat. Li H, et al. **Neurosci Lett** 1997 Feb 28;223(3):153–6

Intracellular calcium transients mediated by P2 receptors in the paranodal Schwann cell region of myelinated rat spinal root axons. Mayer C, et al. **Neurosci Lett** 1997 Mar 7; 224(1):49–52

Location of efferent terminals of the primate flocculus and ventral paraflocculus revealed by anterograde axonal transport methods. Nagao S, et al. **Neurosci Res** 1997 Mar; 27(3):257–69

Large dorsal horn neurons which receive inputs from numerous substance P-like immunoreactive axon terminals in the laminae I and II of the chicken spinal cord. Zhai XY, et al. **Neurosci Res** 1997 Jun;28(2):147–54

Elemental composition and water content of rat optic nerve myelinated axons during in vitro post-anoxia reoxygenation. Stys PK, et al. **Neuroscience** 1996 Aug; 73(4):1081–90

De novo protein synthesis in isolated axons of identified neurons. Van Minnen J, et al. **Neuroscience** 1997 Sep; 80(1):1–7

Kinetic parameters of the ionic currents in myelinated axons: characterization of temperature effects in a hibernator and a nonhibernator. Russ U, et al. **Pflugers Arch** 1996 Apr; 431(6):888–94

Phosphorylation and subunit organization of axonal neurofilaments determined by scanning transmission electron microscopy. Leapman RD, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7820–4

NGF signals ride a trolley to nucleus [news; comment] Barinaga M. **Science** 1997 Aug 22;277(5329):1037. Comment on: Science 1997 Aug 22;277(5329):1097–1100.

An NGF-TrkA-mediated retrograde signal to transcription factor CREB in sympathetic neurons [see comments] Riccio A, et al. **Science** 1997 Aug 22;277(5329):1097–100 . Comment in: Science 1997 Aug 22;277(5329):1037.

Mechanism of calcium entry during axon injury and degeneration. LoPachin RM, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):233–44 (108 ref.)

Immunocytochemical evidence for an axonal localization of GABA in the optic nerves of rabbits, rats, and cats. Rogers PC, et al. **Vis Neurosci** 1995 Nov-Dec;12(6):1143–9

[Serotonin as a neurotrophic factor in the fetal brain: binding, capture and release in centers of axonal growth] Hernández Rodríguez J. **Gac Med Mex** 1994 Jul-Aug;130(4):246–52 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Traumatically induced axonal damage: evidence for enduring changes in axolemmal permeability with associated cytoskeletal change. Povlishock JT, et al. **Acta Neurochir Suppl (Wien)** 1996;66:81–6

Redistribution of axoplasm in the motor root in experimental diabetes. Bömers K, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):98–101

Degenerative axonal swellings in the trigeminal ganglia of cattle. Furuoka H, et al. **Acta Neuropathol (Berl)** 1996 Oct; 92(4):409–14

Increased expression of growth-associated protein 43 immunoreactivity in axons following compression trauma to rat spinal cord. Li GL, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):19–26

Is beta-APP a marker of axonal damage in short-surviving head injury? McKenzie KJ, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):608–13

Superoxide dismutase-like immunoreactivity in spheroids in Hallervorden-Spatz disease. Nishiyama K, et al. **Acta Neuropathol (Berl)** 1997 Jan;93(1):19–23

Ascending myelinated axons of primary sensory neurons of the sciatic nerve in the posterior column of the rat spinal cord. Yamamoto K, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):27–34

Diffuse axonal injury: its mechanism in an assault case. Imajo T. **Am J Forensic Med Pathol** 1996 Dec;17(4):324–6

Imaging of axonal damage in multiple sclerosis: spatial distribution of magnetic resonance imaging lesions. Narayanan S, et al. **Ann Neurol** 1997 Mar;41(3):385–91

Moebius syndrome, an axonal neuropathy and hypogonadism. Baraitser M, et al. **Clin Dysmorphol** 1996 Oct;5(4):351–5

Aberrant axonal projections in mice lacking EphA8 (Eek) tyrosine protein kinase receptors. Park S, et al. **EMBO J** 1997 Jun 2;16(11):3106–14

Motor innervation of the trapezius muscle: a histochemical study. Karuman PM, et al. **Head Neck** 1996 May-Jun; 18(3):254–8

Degeneration of axons in the brainstem of the chinchilla after auditory overstimulation. Kim J, et al. **Hear Res** 1997 Jan; 103(1-2):169–91

Adhesion molecule expression on phagocytic microglial cells following anterograde degeneration of perforant path axons. Hailer NP, et al. **Hippocampus** 1997;7(3):341–9

Decreased retinal ganglion cell number and misdirected axon growth associated with fissure defects in Bst/+ mutant mice. Rice DS, et al. **Invest Ophthalmol Vis Sci** 1997 Sep; 38(10):2112–24

What's new in the diagnosis of head injury? Geddes JF. **J Clin Pathol** 1997 Apr;50(4):271–4

A documentation of an age related increase in neuronal and axonal numbers in the stingray, Dasyatis sabina, Leseuer. Leonard RB, et al. **J Comp Neurol** 1978 May 1;179(1):13–21

Early nodal changes in the acute motor axonal neuropathy pattern of the Guillain-Barré syndrome. Griffin JW, et al. **J Neurocytol** 1996 Jan;25(1):33–51

No evidence for axonal atrophy in human diabetic polyneuropathy. Engelstad JK, et al. **J Neuropathol Exp Neurol** 1997 Mar;56(3):255–62

Characterization of diffuse axonal pathology and selective hippocampal damage following inertial brain trauma in the pig. Smith DH, et al. **J Neuropathol Exp Neurol** 1997 Jul; 56(7):822–34

Membrane leakage in spinal ganglion nerve cells induced by experimental whiplash extension motion: a study in pigs. Ortengren T, et al. **J Neurotrauma** 1996 Mar;13(3):171–80

Axonal sprouting following incomplete spinal cord injury: an experimental model. Goldstein B, et al. **J Spinal Cord Med** 1997 Apr;20(2):200–6

Magnetic nerve root stimulation in two types of brachial plexus injury: segmental demyelination and axonal degeneration. Oge AE, et al. **Muscle Nerve** 1997 Jul; 20(7):823–32

Regeneration of hemisectioned spinal cords with and without supporting materials. Inoue HK, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):600–5

Axonal pathology in Japanese Guillain-Barré syndrome: a study of 15 autopsied cases. Sobue G, et al. **Neurology** 1997 Jun;48(6):1694–700

Physical damage to rat cortical axons mimics early Alzheimer's neuronal pathology. King CE, et al. **Neuroreport** 1997 May 6;8(7):1663–5

Axon and ganglion cell injury in rabbits after percutaneous trigeminal balloon compression. Brown JA, et al. **Neurosurgery** 1996 May;38(5):993–1003; discussion 1003–4

Specificity of neurofilament swellings and axonal atrophy: commentary on forum position paper [comment] Anthony DC. **Neurotoxicology** 1997;18(1):23–4; discussion 37–40. Comment on: Neurotoxicology 1997 ;18(1):7–22.

Axonal swellings vs atrophy: what is the relevance to gamma-diketone peripheral neuropathy? Commentary on forum position paper [comment] DeCaprio AP. **Neurotoxicology** 1997;18(1):25–7; discussion 37–40. Comment on: Neurotoxicology 1997 ;18(1):7–22.

Acute motor axonal neuropathy in childhood: clinical and MRI findings. Phillips JP, et al. **Pediatr Neurol** 1997 Feb; 16(2):152–5

Alterations in glia and axons in the brains of Binswanger's disease patients. Akiguchi I, et al. **Stroke** 1997 Jul; 28(7):1423–9

[Electron microscopy studies of vascular innervation of nasal mucosa in the human] Riederer A, et al. **Laryngorhinootologie** 1997 Jul;76(7):405–10 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

An immunocytochemical analysis of growing axons in a silicone chamber prefilled with artificial sponge matrix. Dubový P, et al. **Acta Histochem** 1996 Apr;98(2):123–30

Altered expression of src tyrosine kinase after axotomy. Isozumi T, et al. **Acta Neuropathol (Berl)** 1997 May; 93(5):438–42

The role of microenvironment in axonal regeneration.

Influences of lesion-induced changes and glial implants on the regeneration of the postcommissural fornix. Stichel-Gunkel CC. **Adv Anat Embryol Cell Biol** 1997; 137:I-VII, 1-81 (355 ref.)

Axonal growth and neosynaptogenesis in human and experimental hippocampal epilepsy. Babb TL. **Adv Neurol** 1997;72:45-51 (18 ref.)

Target-specific guidance cues for regenerating axons are reexpressed in the lesioned adult mammalian central nervous system. Bähr M. **Adv Neurol** 1997;73:83-90 (49 ref.)

Neurogenetic approaches to axon sprouting in the hippocampus. Noebels JL, et al. **Adv Neurol** 1997;72:35-44 (42 ref.)

Axonal sprouting and epileptogenesis. Prince DA, et al. **Adv Neurol** 1997;72:1-8 (56 ref.)

AV3V neurons that send axons to hypothalamic nuclei respond to the systemic injection of IL-1beta. Ota K, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R532-40

The initial stages of development of the retinocollicular projection in the wallaby (Macropus eugenii): distribution of ganglion cells in the retina and their axons in the superior colliculus. Ding Y, et al. **Anat Embryol (Berl)** 1996 Sep; 194(3):301-17

The axonal projections of the Hofmann nuclei in the spinal cord of the late stage chicken embryo. Eide AL. **Anat Embryol (Berl)** 1996 Jun;193(6):543-57

Development of retino-tectal arborizations in the trout. Mansour-Robaey S, et al. **Anat Embryol (Berl)** 1996 Sep; 194(3):279-87

Axogenesis in the human fetal auditory system, demonstrated by neurofilament immunohistochemistry. Moore JK, et al. **Anat Embryol (Berl)** 1997 Jan;195(1):15-30

Recurrent axon collaterals of corticothalamic projection neurons in rat primary somatosensory cortex contribute to excitatory and inhibitory feedback-loops. Staiger JF, et al. **Anat Embryol (Berl)** 1996 Dec;194(6):533-43

Propagated calcium modulates the calcium-dependent potassium current by the activation of GABAB receptor at the axonal branch in the type B photoreceptor of Hermissenda. Sakakibara M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:492-5

End-to-side neurorrhaphy resulting in limited sensory axonal regeneration in a rat model. Tarasidis G, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):506-12

Axonal regeneration through an autogenous nerve bypass: an experimental study in the rat. Shah MH, et al. **Ann Plast Surg** 1997 Apr;38(4):408-14; discussion 414-5

Mechanisms and molecules that control growth cone guidance. Goodman CS. **Annu Rev Neurosci** 1996; 19:341-77 (178 ref.)

Disconnection of medial agranular and posterior parietal cortex produces multimodal neglect in rats. Burcham KJ, et al. **Behav Brain Res** 1997 Jun;86(1):41-7

Spontaneous action potentials due to channel fluctuations. Chow CC, et al. **Biophys J** 1996 Dec;71(6):3013-21

Tail currents in the myelinated axon of Xenopus laevis suggest a two-open-state Na+channel. Elinder F, et al. **Biophys J** 1997 Jul;73(1):179-85

Slow sodium-dependent potential oscillations contribute to ectopic firing in mammalian demyelinated axons. Kapoor R, et al. **Brain** 1997 Apr;120 (Pt 4):647-52

Differences in the recovery of excitability in sensory and motor axons of human median nerve. Kiernan MC, et al. **Brain** 1996 Aug;119 (Pt 4):1099-105

Axotomy as an experimental model of neuronal injury and cell death. Koliatsos VE, et al. **Brain Pathol** 1996 Oct; 6(4):447-65 (164 ref.)

Estimates of the axonal refractory period of midbrain dopamine neurons: their relevance to brain stimulation reward. Anderson RM, et al. **Brain Res** 1996 Apr 29; 718(1-2):83-8

In vitro pre-degenerated nerve autografts support CNS axonal regeneration. Decherchi P, et al. **Brain Res** 1996 Jul 8;726(1-2):181-8

Minimal effect of CNTF on the ultrastructure of axotomised motoneurones in the adult rat. Demetriou T, et al. **Brain Res** 1996 Sep 16;733(2):312-7

Effect of proximal axotomy on GAP-43 expression in cortical neurons in the mouse. Elliott EJ, et al. **Brain Res** 1997 May 2;755(2):221-8

Slow Na+ channel inactivation and bursting discharge in a simple model axon: implications for neuropathic pain. Elliott JR. **Brain Res** 1997 Apr 18;754(1-2):221-6

Differential expression of MAG, MBP and L1 in the developing lateral superior olive. Hafidi A, et al. **Brain Res** 1996 Oct 14;736(1-2):35-43

Cellular localisation of metabotropic glutamate receptors in the mammalian optic nerve: a mechanism for axon-glia communication. Jeffery G, et al. **Brain Res** 1996 Nov 25; 741(1-2):75-81

Ca2+/calmodulin-dependent protein kinase type IV in dorsal root ganglion: colocalization with peptides, axonal transport and effect of axotomy. Ji RR, et al. **Brain Res** 1996 May 20;721(1-2):167-73

Synaptic contacts of substance P-immunoreactive axon terminals in the nucleus tractus solitarius onto neurons projecting to the caudal ventrolateral medulla oblongata in the rat. Kawano H, et al. **Brain Res** 1997 Apr 18; 754(1-2):315-20

A re-examination of sex differences in axon density and number in the splenium of the rat corpus callosum. Kim JH, et al. **Brain Res** 1996 Nov 18;740(1-2):47-56

Corticostriatal projections from layer V cells in rat are collaterals of long-range corticofugal axons. Levesque M, et al. **Brain Res** 1996 Feb 19;709(2):311-5

Parabrachial nucleus neurons providing axons to both the thalamus and the spinal cord in the rat. Li JL, et al. **Brain Res** 1997 Jan 16;745(1-2):321-7

Relationship between frequency of spontaneous bursting and tonotopic position in the developing avian auditory system. Lippe WR. **Brain Res** 1995 Dec 12;703(1-2):205-13

Axotomy transiently down-regulates androgen receptors in motoneurons of the spinal nucleus of the bulbocavernosus. Lubischer JL, et al. **Brain Res** 1995 Oct 2;694(1-2):61-8

Postnatal retinal ganglion cells in vitro: protection against reactive oxygen species (ROS)-induced axonal degeneration by cocultured astrocytes. Lucius R, et al. **Brain Res** 1996 Dec 16;743(1-2):56-62

Glial cell reactions in the spinal cord after sensory nerve stimulation are associated with axonal injury. Molander C, et al. **Brain Res** 1997 Jan 30;747(1):122-9

Sprouting and abnormal contacts of nonmedullated axons, and deposition of extracellular material induced by the amyloid precursor protein (APP) and other protease inhibitors. Moreno RD, et al. **Brain Res** 1996 Apr 29; 718(1-2):13-24

Effects of peripheral axotomy on neuropeptides and nitric oxide synthase in dorsal root ganglia and spinal cord of the guinea pig: an immunohistochemical study. Rydh-Rinder M, et al. **Brain Res** 1996 Jan 29;707(2):180-8

An electrophysiological demonstration of axonal projections of single ventral inspiratory neurons to the phrenic nucleus of the cat. Sasaki S, et al. **Brain Res** 1995 Dec 1; 701(1-2):108-16

Differential sprouting responses in axonal fiber systems in the dentate gyrus following lesions of the perforant path in WLDs mutant mice. Shi B, et al. **Brain Res** 1996 Nov 18;740(1-2):89-101

Rubral astrocytic reactions to proximal and distal axotomy of rubrospinal neurons in the rat. Tseng GF, et al. **Brain Res** 1996 Dec 2;742(1-2):115-28

Perineuronal microglial reactivity following proximal and distal axotomy of rat rubrospinal neurons. Tseng GF, et al. **Brain Res** 1996 Apr 9;715(1-2):32-43

Demonstration of the corticotectobulbar pathway from the orofacial motor cortex to the parvicellular reticular formation in the rat. Tsumori T, et al. **Brain Res** 1997 Apr 25;755(1):151-5

Axon sparing lesions of the medial preoptic area block female sexual behavior. Veney SL, et al. **Brain Res** 1997 May 9; 756(1-2):273-7

Monoclonal antibody C38 labels surviving retinal ganglion cells after peripheral nerve graft in axotomized rat retina. Wakabayashi T, et al. **Brain Res** 1996 Jun 24;725(1):121-4

Sorting signals and targeting of infectious agents through axons: an annotation to the 100 years' birth of the name "axon". Kristensson K. **Brain Res Bull** 1996;41(6):327-33 (68 ref.)

Transneuronal transport of intracellularly injected biotinamide in primary afferent axons. Luo P, et al. **Brain Res Bull** 1996;39(6):323-34

Neonatal paralysis of the rat soleus muscle selectively affects motoneurones from more caudal segments of the spinal cord. Greensmith L, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):281-6

Decreased receptivity of pathway connective tissue to sympathetic nerve ingrowth in the developing rat. Hiebert JM, et al. **Brain Res Dev Brain Res** 1997 May 20; 100(1):35-42

Differential expression of the mRNAs of the axonal glycoproteins axonin-1 and NgCAM in the developing chick retina. Morino P, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):252-9

Beta 1 integrins regulate axon outgrowth and glial cell spreading on a glial-derived extracellular matrix during development and regeneration. Sakaguchi DS, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):235-50

Growth of dorsal spinocerebellar axons through a lesion of their spinal pathway during early development in the North American opossum, Didelphis virginiana. Terman JR, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):33-48

Early development and developmental plasticity of the fasciculus gracilis in the North American opossum (Didelphis virginiana). Wang XM, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):151-63

Entorhinal axons perforate hippocampal field CA3 in organotypic slice culture. Woodhams PL, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):144-7

Enhanced gene expression for phosphatidylinositol 3-kinase in the hypoglossal motoneurons following axonal crush. Ito Y, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1-2):329-32

Up-regulation of cystatin C by microglia in the rat facial nucleus following axotomy. Miyake T, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):273-82

Changes in the expression of transcription factors ATF-2 and Fra-2 after axotomy and during regeneration in rat retinal ganglion cells. Robinson GA. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):57-64

Differential effects of axotomy on the in vivo synthesis of the stress-inducible and constitutive 70-kDa heat-shock proteins in rat dorsal root ganglia. Tedeschi B, et al. **Brain Res Mol Brain Res** 1997 May;45(2):199-206

Region-specific central nervous system expression and axotomy-induced regulation in sympathetic neurons of a VIP-beta-galactosidase fusion gene in transgenic mice. Tsuruda LM, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):181-92

Changes in glutamate/aspartate transporter (GLAST/GluT-1) mRNA expression following facial nerve transection. Yamashita T, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):294-9

The Drosophila beaten path gene encodes a novel secreted protein that regulates defasciculation at motor axon choice points. Fambrough D, et al. **Cell** 1996 Dec 13;87(6):1049-58

Netrin-1 is required for commissural axon guidance in the developing vertebrate nervous system. Serafini T, et al. **Cell** 1996 Dec 13;87(6):1001-14

Role of a new Rho family member in cell migration and axon guidance in C. elegans. Zipkin ID, et al. **Cell** 1997 Sep 5;90(5):883-94

Review: a role for the FGF receptor in the axonal growth response stimulated by cell adhesion molecules? Hall H, et al. **Cell Adhes Commun** 1996 Apr;3(6):441-50 (97 ref.)

Cytomechanics of axonal development. Heidemann SR, et al. **Cell Biochem Biophys** 1995;27(3):135-55 (45 ref.)

Actin dynamics and organization during growth cone morphogenesis in Helisoma neurons. Welnhofer EA, et al. **Cell Motil Cytoskeleton** 1997;37(1):54-71

Exogenous heat shock cognate protein Hsc 70 prevents axotomy-induced death of spinal sensory neurons. Houenou LJ, et al. **Cell Stress Chaperones** 1996 Sep; 1(3):161-6

Astrocytes and regenerating axons at the proximal stump of the severed frog optic nerve. Blanco RE, et al. **Cell Tissue Res** 1996 Dec;286(3):337-45

Axonal processes and neural plasticity.I: Ocular dominance columns. Elliott T, et al. **Cereb Cortex** 1996 Nov-Dec; 6(6):781-8

Axonal processes and neural plasticity. II: Adult somatosensory maps. Elliott T, et al. **Cereb Cortex** 1996 Nov-Dec;6(6):789-93

Axonal arborizations of corticostriatal and corticothalamic fibers arising from the second somatosensory area in the rat. Lévesque M, et al. **Cereb Cortex** 1996 Nov-Dec; 6(6):759-70

Ischemic injury of optic nerve axons: the nuts and bolts. Fern R, et al. **Clin Neurosci** 1997;4(5):246-50 (32 ref.)

Survival of axotomized retinal ganglion cells in adult mammals. Watanabe M, et al. **Clin Neurosci** 1997;4(5):233-9 (87 ref.)

Neurofilaments, radial growth of axons, and mechanisms of motor neuron disease. Williamson TL, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:709-23 (73 ref.)

CNS axonal regeneration with peripheral nerve grafts cryopreserved by vitrification: cytological and functional aspects. Decherchi P, et al. **Cryobiology** 1997 May; 34(3):214-39

The dynamics of growing axons. Membrane biophysics. Bray D. **Curr Biol** 1996 Mar 1;6(3):241-3 (8 ref.)

Axon guidance: netrin receptors are revealed. Guthrie S. **Curr Biol** 1997 Jan 1;7(1):R6-9 (19 ref.)

Chromophore-assisted laser inactivation of a repulsive axonal guidance molecule. Müller BK, et al. **Curr Biol** 1996 Nov 1;6(11):1497-502

Axon-glia interactions: building a smart nerve fiber. Waxman SG. **Curr Biol** 1997 Jul 1;7(7):R406-10 (29 ref.)

Microtubules and axonal growth. Baas PW. **Curr Opin Cell Biol** 1997 Feb;9(1):29-36 (32 ref.)

Novel gene families involved in neural pathfinding. Müller BK, et al. **Curr Opin Genet Dev** 1996 Aug;6(4):469-74 (61 ref.)

Structure/function relationships of axon-associated adhesion receptors of the immunoglobulin superfamily. Brümmendorf T, et al. **Curr Opin Neurobiol** 1996 Oct; 6(5):584-93 (80 ref.)

Functions of netrins and semaphorins in axon guidance. Culotti JG, et al. **Curr Opin Neurobiol** 1996 Feb;6(1):81-8 (40 ref.)

Tyrosine phosphorylation and axon guidance: of mice and flies. Desai CJ, et al. **Curr Opin Neurobiol** 1997 Feb; 7(1):70-4 (33 ref.)

The Eph family in retinal axon guidance. Drescher U, et al. **Curr Opin Neurobiol** 1997 Feb;7(1):75-80 (54 ref.)

Cerebroglycan, a developmentally regulated cell-surface heparan sulfate proteoglycan, is expressed on developing axons and growth cones. Ivins JK, et al. **Dev Biol** 1997 Apr 15;184(2):320-32

Role of galectin-1 in the developing mouse olfactory system. Puche AC, et al. **Dev Biol** 1996 Oct 10;179(1):274-87

argos Is required for projection of photoreceptor axons during optic lobe development in Drosophila. Sawamoto K, et al. **Dev Dyn** 1996 Feb;205(2):162-71

The effects of remaining axons on motoneuron survival and NOS expression following axotomy in the adult rat. Gu Y, et al. **Dev Neurosci** 1997;19(3):255-9

Progressive remodeling of the oligodendrocyte process arbor during myelinogenesis. Hardy RJ, et al. **Dev Neurosci** 1996; 18(4):243-54

Competition and cooperation among receptor tyrosine phosphatases control motoneuron growth cone guidance in Drosophila. Desai CJ, et al. **Development** 1997 May; 124(10):1941-52

Appropriate pattern formation following regulative regeneration in the hindbrain neural tube. Díaz C, et al.

Development 1996 Oct;122(10):3095–105

Inhibition of motor axon growth by T–cadherin substrata. Fredette BJ, et al. **Development** 1996 Oct;122(10):3163–71

Genetic analysis of Laminin A in Drosophila: extracellular matrix containing laminin A is required for ocellar axon pathfinding. García–Alonso L, et al. **Development** 1996 Sep; 122(9):2611–21

Pax–6 functions in boundary formation and axon guidance in the embryonic mouse forebrain. Mastick GS, et al. **Development** 1997 May;124(10):1985–97

Reggie–1 and reggie–2, two cell surface proteins expressed by retinal ganglion cells during axon regeneration. Schulte T, et al. **Development** 1997 Jan;124(2):577–87

VP16–activation of the C. elegans neural specification transcription factor UNC–86 suppresses mutations in downstream genes and causes defects in neural migration and axon outgrowth. Sze JY, et al. **Development** 1997 Mar; 124(6):1159–68

Mutations disrupting the ordering and topographic mapping of axons in the retinotectal projection of the zebrafish, Danio rerio. Trowe T, et al. **Development** 1996 Dec; 123:439–50

Essential role of heparan sulfates in axon navigation and targeting in the developing visual system. Walz A, et al. **Development** 1997 Jun;124(12):2421–30

Genes that guide growth cones along the C. elegans ventral nerve cord. Wightman B, et al. **Development** 1997 Jul; 124(13):2571–80

Auditory brain stem response generation by parallel pathways: differential maturation of axonal conduction time and synaptic transmission. Ponton CW, et al. **Ear Hear** 1996 Oct;17(5):402–10

Selection of electrophysiological techniques to investigate axonal damage of peripheral motor nerve fibres. Hülser PJ, et al. **Electromyogr Clin Neurophysiol** 1997 Jan–Feb; 37(1):55–64

The beta–amyloid domain is essential for axonal sorting of amyloid precursor protein. Tienari PJ, et al. **EMBO J** 1996 Oct 1;15(19):5218–29

Gonadotropin–releasing hormone axons target the median eminence: in vitro evidence for diffusible chemoattractive signals from the mediobasal hypothalamus. Rogers MC, et al. **Endocrinology** 1997 Sep;138(9):3956–66

Astrocytes may contribute to the latent period in progressive neuron loss, axon sprouting, and chronic seizures in rat kainate hippocampal epilepsy. Babb TL, et al. **Epilepsy Res Suppl** 1996;12:343–54

Growth of callosal terminal arbors in primary visual areas of the cat. Aggoun–Aouaoui D, et al. **Eur J Neurosci** 1996 Jun;8(6):1132–48

GAP–43 mRNA in mouse motoneurons undergoing axonal sprouting in response to muscle paralysis of partial denervation. Bisby MA, et al. **Eur J Neurosci** 1996 Jun; 8(6):1240–8

BDNF and NT–3, but not NGF, prevent axotomy–induced death of rat corticospinal neurons in vivo. Giehl KM, et al. **Eur J Neurosci** 1996 Jun;8(6):1167–75

Diffusion in axon guidance. Goodhill GJ. **Eur J Neurosci** 1997 Jul;9(7):1414–21

Localization and axotomy–induced regulation of the peptide secretoneurin in the rat superior cervical ganglion. Klimaschewski L, et al. **Eur J Neurosci** 1996 Sep; 8(9):1953–64

The convergence of axon terminals from the mediodorsal thalamic nucleus and ventral tegmental area on pyramidal cells in layer V of the rat prelimbic cortex. Kuroda M, et al. **Eur J Neurosci** 1996 Jul;8(7):1340–9

Transient up–regulation of ciliary neurotrophic factor receptor–alpha mRNA in axotomized rat septal neurons. Lee MY, et al. **Eur J Neurosci** 1997 Mar;9(3):622–6

The course and termination of corticothalamic fibres arising in the visual cortex of the rat. Lozsádi DA, et al. **Eur J Neurosci** 1996 Nov;8(11):2416–27

Accurate synapse regeneration despite ablation of the distal axon segment. Mason A, et al. **Eur J Neurosci** 1996 Jan; 8(1):11–20

Effects of GDNF on axotomized sensory and motor neurons in adult rats. Munson JB, et al. **Eur J Neurosci** 1997 Jun; 9(6):1126–9

Recovery of ChAT immunoreactivity in axotomized rat cholinergic septal neurons despite reduced NGF receptor expression. Naumann T, et al. **Eur J Neurosci** 1997 Jul; 9(7):1340–9

Axonal sprouting of CA1 pyramidal cells in hyperexcitable hippocampal slices of kainate–treated rats. Perez Y, et al. **Eur J Neurosci** 1996 Apr;8(4):736–748

The semaphorins: a family of axonal guidance molecules? Püschel AW. **Eur J Neurosci** 1996 Jul;8(7):1317–21 (37 ref.)

Chromogranin mRNA levels in the brain as a marker for acute and chronic changes in neuronal activity: effect of treatments including seizures, osmotic stimulation and axotomy in the rat. Shen PJ, et al. **Eur J Neurosci** 1996 May;8(5):988–1000

Leukaemia inhibitory factor induced in the sciatic nerve after axotomy is involved in the induction of galanin in sensory neurons. Sun Y, et al. **Eur J Neurosci** 1996 Oct; 8(10):2213–20

Regulation of motoneuronal calcitonin gene–related peptide (CGRP) during axonal growth and neuromuscular synaptic plasticity induced by botulinum toxin in rats. Tarabal O, et al. **Eur J Neurosci** 1996 Apr;8(4):829–36

The G–protein gamma–subunit G gamma 8 is expressed in the developing axons of olfactory and vomeronasal neurons. Tirindelli R, et al. **Eur J Neurosci** 1996 Nov; 8(11):2388–98

Cranial motor axons respond differently to the floor plate and sensory ganglia in collagen gel co–cultures. Tucker A, et al. **Eur J Neurosci** 1996 May;8(5):906–16

Mechanisms of paresthesiae, dysesthesiae, and hyperesthesiae: role of Na+ channel heterogeneity. Rizzo MA, et al. **Eur Neurol** 1996;36(1):3–12 (44 ref.)

Influence of leukemia inhibitory factor on galanin/GMAP and neuropeptide Y expression in mouse primary sensory neurons after axotomy. Corness J, et al. **Exp Brain Res** 1996 Nov;112(1):79–88

The lack of effect of baclofen on action potentials of spinal motor axon collateral terminations in vivo. Curtis DR, et al. **Exp Brain Res** 1997 Mar;114(1):184–7

Regenerating ganglion cell axons in the adult rat establish retinofugal topography and restore visual function. Thanos S, et al. **Exp Brain Res** 1997 May;114(3):483–91

Expression of peptides, nitric oxide synthase and NPY receptor in trigeminal and nodose ganglia after nerve lesions. Zhang X, et al. **Exp Brain Res** 1996 Oct; 111(3):393–404

Prior collateral sprouting of sensory axons delays recovery of pain sensitivity after subsequent nerve crush. Bajrović F, et al. **Exp Neurol** 1996 Oct;141(2):207–13

The responses of mammalian spinal axons to an applied DC voltage gradient. Borgens RB, et al. **Exp Neurol** 1997 Jun; 145(2 Pt 1):376–89

Retino–geniculate axons regenerating in adult hamsters are able to form morphologically distinct terminals. Carter DA, et al. **Exp Neurol** 1997 Aug;146(2):315–22

Regeneration of cut adult axons fails even in the presence of continuous aligned glial pathways. Davies SJ, et al. **Exp Neurol** 1996 Dec;142(2):203–16

Effects of axotomy and testosterone on androgen receptor mRNA expression in hamster facial motoneurons. Drengler SM, et al. **Exp Neurol** 1997 Aug;146(2):374–9

Neuropeptide Y expression in the trigeminal ganglion and mandibular division of the trigeminal nerve after inferior alveolar nerve axotomy in young rats. Fristad I, et al. **Exp Neurol** 1996 Dec;142(2):276–86

Sympathetic response to intracranial NGF infusion in the absence of afferent input: axonal sprouting without neurotransmitter production. Isaacson LG, et al. **Exp Neurol** 1996 Sep;141(1):57–66

Effects of donor age and brain–derived neurotrophic factor on the survival of dopaminergic neurons and axonal growth in postnatal rat nigrostriatal cocultures. Ostergaard K, et al. **Exp Neurol** 1996 Dec;142(2):340–50

Expression of superoxide dismutase following axotomy. Rosenfeld J, et al. **Exp Neurol** 1997 Sep;147(1):37–47

Descending propriospinal neurons in normal and spinal cord–transected lamprey. Rouse DT Jr, et al. **Exp Neurol** 1997 Jul;146(1):113–24

Two novel pyrrolopyrimidine lipid peroxidation inhibitors U–101033E and U–104067F protect facial motor neurons following neonatal axotomy. Smith SL, et al. **Exp Neurol** 1996 Oct;141(2):304–9

Cyclosporin A retards the wallerian degeneration of peripheral mammalian axons. Sunio A, et al. **Exp Neurol** 1997 Jul;146(1):46–56

Correlated axonal sprouting and dendritic spine formation during kainate–induced neuronal morphogenesis in the dentate gyrus of adult mice. Suzuki F, et al. **Exp Neurol** 1997 May;145(1):203–13

Effects of extracellular matrix components on axonal outgrowth from peripheral nerves of adult animals in vitro. Tonge DA, et al. **Exp Neurol** 1997 Jul;146(1):81–90

Proportions of ON–center versus OFF–center cells in retinal ganglion cells with regenerated axons of adult cats. Watanabe M, et al. **Exp Neurol** 1997 Jan;143(1):117–23

Branching axon from pons and raphe nuclei project to cerebellar paramedian lobule as studied with the double fluorescent retrograde tracing technique. Mierzejewska–Krzyżowska B, et al. **Folia Morphol (Warsz)** 1996;55(4):396–7

Null mutation of mCOUP–TFI results in defects in morphogenesis of the glossopharyngeal ganglion, axonal projection, and arborization. Qiu Y, et al. **Genes Dev** 1997 Aug 1;11(15):1925–37

Molecules making waves in axon guidance. Varela–Echavarría A, et al. **Genes Dev** 1997 Mar 1; 11(5):545–57 (96 ref.)

Removal of retrogradely transported material from rat lumbosacral alpha–motor axons by paranodal axon–Schwann cell networks. Gatzinsky KP, et al. **Glia** 1997 Jun;20(2):115–26

Transplantation of oligodendrocyte progenitor cells into the rat retina: extensive myelination of retinal ganglion cell axons. Laeng P, et al. **Glia** 1996 Nov;18(3):200–10

A combination of insulin–like growth factor–I and platelet–derived growth factor enhances myelination but diminishes axonal regeneration into Schwann cell grafts in the adult rat spinal cord. Oudega M, et al. **Glia** 1997 Mar;19(3):247–58

Does astrocytic glycogen benefit axon function and survival in CNS white matter during glucose deprivation? Ransom BR, et al. **Glia** 1997 Sep;21(1):134–41 (53 ref.)

Rat brain oligodendrocytes do not interact selectively with axons expressing different calcium–binding proteins. Weruaga–Prieto E, et al. **Glia** 1996 Feb;16(2):117–28

Electrophysiological considerations relevant to the limiting of pulsed electric and magnetic fields. Jokela K. **Health Phys** 1997 Mar;72(3):408–17

Model of spatio–temporal propagation of action potentials in the Schaffer collateral pathway of the CA1 area of the rat hippocampus. Bernard C, et al. **Hippocampus** 1997; 7(1):58–72

Hippocampal NPY neurons project to the fascia dentata in organotypic cultures. Mitchell J, et al. **Hippocampus** 1996; 6(2):173–82

Axotomy–induced loss of m2 muscarinic receptor mRNA in the rat facial motor nucleus precedes a decrease in concentration of muscarinic receptors. Hoover DB, et al. **Histochem J** 1996 Nov;28(11):771–8

Pattern of degeneration of the rat inferior olivary complex after the early postnatal axotomy of the olivocerebellar projection. Armengol JA, et al. **Histol Histopathol** 1996 Apr;11(2):379–88

A slowly penetrating interfascicular nerve electrode for selective activation of peripheral nerves. Tyler DJ, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):51–61

Growth stimulation and chemotropic attraction of rat retinal ganglion cell axons in vitro by co–cultured optic nerves, astrocytes and astrocyte conditioned medium. Lucius R, et al. **Int J Dev Neurosci** 1996 Jul;14(4):387–98

Directional neurite outgrowth and axonal differentiation of embryonic hippocampal neurons are promoted by a neurite outgrowth domain of the B2–chain of laminin. Matsuzawa M, et al. **Int J Dev Neurosci** 1996 Jun;14(3):283–95

Cytoplasmic mechanisms of axonal and dendritic growth in neurons. Heidemann SR. **Int Rev Cytol** 1996;165:235–96 (354 ref.)

Axonal regeneration through acellular muscle grafts. Hall S. **J Anat** 1997 Jan;190 (Pt 1):57–71 (110 ref.)

Abnormal Schwann cell/axon interactions in the Trembler–J mouse. Robertson AM, et al. **J Anat** 1997 Apr;190 (Pt 3):423–32

Corticotropin–releasing hormone–like axons in the adrenal glands of fetal and postnatal sheep. Pomerantz JE, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):87–90

Native chick laminin–4 containing the beta 2 chain (s–laminin) promotes motor axon growth. Brandenberger R, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1583–92

Neurofilament subunit NF–H modulates axonal diameter by selectively slowing neurofilament transport. Marszalek JR, et al. **J Cell Biol** 1996 Nov;135(3):711–24

Plus–end motors override minus–end motors during transport of squid axon vesicles on microtubules. Muresan V, et al. **J Cell Biol** 1996 Oct;135(2):383–97

Neurofascin induces neurites by heterophilic interactions with axonal NrCAM while NrCAM requires F11 on the axonal surface to extend neurites. Volkmer H, et al. **J Cell Biol** 1996 Nov;135(4):1059–69

Rac is required for growth cone function but not neurite assembly. Lamoureux P, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):635–41

Appositions made by axons of descending interneurons in the guinea–pig small intestine, investigated by confocal microscopy. Mann PT, et al. **J Chem Neuroanat** 1997 Mar; 12(3):151–64

Features of the structural development of the inferior colliculus in relation to the onset of hearing in a marsupial: the northern quoll, Dasyurus hallucatus. Aitkin L, et al. **J Comp Neurol** 1996 Nov 4;375(1):77–88

Ramification and termination of single axons in the cerebellothalamic pathway of the rat. Aumann TD, et al. **J Comp Neurol** 1996 Dec 16;376(3):420–30

Axonal regrowth after spinal cord transection in adult zebrafish. Becker T, et al. **J Comp Neurol** 1997 Jan 27; 377(4):577–95

Distinct lateral and medial projections of the spinohypothalamic tract of the rat. Burstein R, et al. **J Comp Neurol** 1996 Sep 30;373(4):549–74

Mab22C11 antibody to amyloid precursor protein recognizes a protein associated with specific astroglial cells of the rat central nervous system characterized by their capacity to support axonal outgrowth. Chauvet N, et al. **J Comp Neurol** 1997 Jan 27;377(4):550–64

Changing course of growing axons in the optic chiasm of the mouse. Colello SJ, et al. **J Comp Neurol** 1997 Mar 24; 379(4):495–514

Quantal release at visualized terminals of a crayfish motor axon: intraterminal and regional differences. Cooper RL, et al. **J Comp Neurol** 1996 Nov 25;375(4):583–600

Attempts to facilitate dorsal column axonal regeneration in a neonatal spinal environment. Dent LJ, et al. **J Comp Neurol** 1996 Aug 26;372(3):435–56

Specific potentialities of embryonic rat serotonergic neurons to innervate different periventricular targets in the adult brain. Didier–Bazes M, et al. **J Comp Neurol** 1997 May 26;382(1):29–45

Axonal connections of the medial magnocellular nucleus of the anterior neostriatum in zebra finches. Foster EF, et al. **J Comp Neurol** 1997 Jun 9;382(3):364–81

Anatomy of rat semaphorin III/collapsin–1 mRNA expression and relationship to developing nerve tracts during neuroembryogenesis. Giger RJ, et al. **J Comp Neurol** 1996 Nov 18;375(3):378–92

Axonal remodeling during postnatal maturation of CA3 hippocampal pyramidal neurons. Gomez–Di Cesare CM, et al. **J Comp Neurol** 1997 Jul 28;384(2):165–80

Reactive astrocyte formation in vivo is regulated by

noradrenergic axons. Griffith R, et al. **J Comp Neurol** 1996 Jul 29;371(3):362–75

Axonal morphology in fibrodendritic laminae of the dorsal nucleus of the lateral lemniscus: afferent projections from the medial superior olivary nucleus. Henkel CK. **J Comp Neurol** 1997 Mar 31;380(1):136–44

Sympathetic axons invade the brains of mice overexpressing nerve growth factor. Kawaja MD, et al. **J Comp Neurol** 1997 Jun 23;383(1):60–72

Distribution of the ten known laminin chains in the pathways and targets of developing sensory axons. Lentz SI, et al. **J Comp Neurol** 1997 Feb 24;378(4):547–61

Synaptic connections of dorsal horn group II spinal interneurons: synapses formed with the interneurons and by their axon collaterals. Maxwell DJ, et al. **J Comp Neurol** 1997 Mar 31;380(1):51–69

Serotonergic axonal contacts on identified cat trigeminal motoneurons and their correlation with medullary raphe nucleus stimulation. Nagase Y, et al. **J Comp Neurol** 1997 Aug 4;384(3):443–55

Anatomical and functional evidence for lesion-specific sprouting of corticostriatal input in the adult rat. Napieralski JA, et al. **J Comp Neurol** 1996 Sep 30; 373(4):484–97

Immunohistochemical study of skin reinnervation by regenerative axons. Navarro X, et al. **J Comp Neurol** 1997 Apr 7;380(2):164–74

Initial trajectories of sensory axons toward laminar targets in the developing mouse spinal cord. Ozaki S, et al. **J Comp Neurol** 1997 Apr 7;380(2):215–29

Chronotopic fiber reordering and the distribution of cell adhesion and extracellular matrix molecules in the optic pathway of fetal ferrets. Reese BE, et al. **J Comp Neurol** 1997 Apr 14;380(3):355–72

Genetic influences on cellular reactions to brain injury: activation of microglia in denervated neuropil in mice carrying a mutation (Wld(S)) that causes delayed Wallerian degeneration. Schauwecker PE, et al. **J Comp Neurol** 1997 Mar 31;380(1):82–94

Genetic influences on cellular reactions to CNS injury: the reactive response of astrocytes in denervated neuropil regions in mice carrying a mutation (Wld(S)) that causes delayed Wallerian degeneration. Steward O, et al. **J Comp Neurol** 1997 Mar 31;380(1):70–81

Mu-opioid receptor is located on the plasma membrane of dendrites that receive asymmetric synapses from axon terminals containing leucine-enkephalin in the rat nucleus locus coeruleus. Van Bockstaele EJ, et al. **J Comp Neurol** 1996 Dec 2;376(1):65–74

Evidence for growth of supraspinal axons through the lesion after transection of the thoracic spinal cord in the developing opossum Didelphis virginiana. Wang XM, et al. **J Comp Neurol** 1996 Jul 15;371(1):104–15

Differential adhesion and the initial assembly of the mammalian olfactory nerve. Whitesides JG 3rd, et al. **J Comp Neurol** 1996 Sep 16;373(2):240–54

The role of axonal delay in the synchronization of networks of coupled cortical oscillators. Crook SM, et al. **J Comput Neurosci** 1997 Apr;4(2):161–72

Elevated [Cl-]i, and [Na+]i inhibit Na+, K+, Cl- cotransport by different mechanisms in squid giant axons. Breitwieser GE, et al. **J Gen Physiol** 1996 Feb; 107(2):261–70

Functional and biochemical analysis of CNS-relevant neurotrophic activity in the lesioned sciatic nerve of adult rats. Mey J, et al. **J Hirnforsch** 1996;37(1):25–50

Treatment with cyclosporine A promotes axonal regeneration in rats submitted to transverse section of the spinal cord—II—Recovery of function. Palladini G, et al. **J Hirnforsch** 1996;37(1):145–53

Effects of permeant cations on K+ channel gating in nerve axons revisited. Clay JR. **J Membr Biol** 1996 Oct; 153(3):195–201

Differential effects of depolarization on the growth of crayfish tonic and phasic motor axons in culture. Arcaro KF, et al. **J Neurobiol** 1997 Jul;33(1):85–97

Spatial repositioning of centromeric domains during regrowth of axons in nuclei of murine dorsal root ganglion neurons in vitro. Choh V, et al. **J Neurobiol** 1996 Nov; 31(3):325–32

Development of the anterior commissure in the opossum: midline extracellular space and glia coincide with early axon decussation. Cummings DM, et al. **J Neurobiol** 1997 Apr;32(4):403–14

Developmental distribution of glycosaminoglycans in embryonic rat brain: relationship to axonal tract formation. Fernaud-Espinosa I, et al. **J Neurobiol** 1996 Jul; 30(3):410–24

Axon-mediated gene transfer of retinal ganglion cells in vivo. Garcia-Valenzuela E, et al. **J Neurobiol** 1997 Jan; 32(1):111–22

Specificity and development of innervation pattern of Xenopus pectoralis muscle. Grinnell AD, et al. **J Neurobiol** 1996 Dec;31(4):415–32

Synapse loss and axon retraction in response to local muscle degeneration. Hegstrom CD, et al. **J Neurobiol** 1996 Oct; 31(2):175–88

Myosin light chain kinase: expression in neurons and upregulation during axon regeneration. Jian X, et al. **J Neurobiol** 1996 Nov;31(3):379–91

Role of laminin in axonal extension from olfactory receptor cells. Kafitz KW, et al. **J Neurobiol** 1997 Mar;32(3):298–310

Axonal regrowth upregulates beta-actin and Jun D mRNA expression. Lund LM, et al. **J Neurobiol** 1996 Dec; 31(4):476–86

Migration of glial cells into retinal axon target field in Drosophila melanogaster. Perez SE, et al. **J Neurobiol** 1996 Jul;30(3):359–73

Positional cues that are strictly localized in the telencephalon induce preferential growth of mitral cell axons. Sugisaki N, et al. **J Neurobiol** 1996 Feb;29(2):127–37

Cellular migration and axonal outgrowth from adult mammalian peripheral nerves in vitro. Tonge DA, et al. **J Neurobiol** 1996 Feb;29(2):151–64

In vivo observations of timecourse and distribution of morphological dynamics in Xenopus retinotectal axon arbors. Witte S, et al. **J Neurobiol** 1996 Oct;31(2):219–34

Rubidium uptake and accumulation in peripheral myelinated internodal axons and Schwann cells. Lehning EJ, et al. **J Neurochem** 1997 Sep;69(3):968–77

Involvement of leukemia inhibitory factor in the increases in galanin and vasoactive intestinal peptide mRNA and the decreases in neuropeptide Y and tyrosine hydroxylase mRNA in sympathetic neurons after axotomy. Sun Y, et al. **J Neurochem** 1996 Oct;67(4):1751–60

Differential axonal transport of soluble and insoluble tau in the rat sciatic nerve. Tashiro T, et al. **J Neurochem** 1996 Oct;67(4):1566–74

N-acetylated alpha-linked acidic dipeptidase may be involved in axon-Schwann cell signalling. Berger UV, et al. **J Neurocytol** 1996 Sep;25(9):499–512

Acetylcholinesterase inhibitor treatment delays recovery from axotomy in cultured dorsal root ganglion neurons. Dupree JL, et al. **J Neurocytol** 1996 Aug;25(8):439–54

Gonadal steroid preservation of central synaptic input to hamster facial motoneurons following peripheral axotomy. Jones KJ, et al. **J Neurocytol** 1997 Apr;26(4):257–66

Bridging Schwann cell transplants promote axonal regeneration from both the rostral and caudal stumps of transected adult rat spinal cord. Xu XM, et al. **J Neurocytol** 1997 Jan;26(1):1–16

Neuroprotective effect of various cytokines on developing spinal motoneurons following axotomy. Ikeda K, et al. **J Neurol Sci** 1996 Feb;135(2):109–13

Effect of transforming growth factor beta 1 on spinal motor neurons after axotomy. Iwasaki Y, et al. **J Neurol Sci** 1997 Mar 20;147(1):9–12

Axonal viability and the persistence of thermal hyperalgesia after partial freeze lesions of nerve. Myers RR, et al. **J Neurol Sci** 1996 Jul;139(1):28–38

Proximally evoked soleus H reflexes in the evaluation of axonal neuropathy. Sachs GM, et al. **J Neurol Sci** 1996 Jun;138(1-2):88–92

Transforming growth factor alpha expression as a response of murine motor neurons to axonal injury and mutation-induced degeneration. Lisovoski F, et al. **J Neuropathol Exp Neurol** 1997 May;56(5):459–71

Motor and sensory specificity of host nerve axons influence nerve allograft rejection. Midha R, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):421–34

Subgroups of rostral ventrolateral medullary and caudal medullary raphe neurons based on patterns of relationship to sympathetic nerve discharge and axonal projections. Barman SM, et al. **J Neurophysiol** 1997 Jan;77(1):65–75

Network properties of the dentate gyrus in epileptic rats with hilar neuron loss and granule cell axon reorganization. Buckmaster PS, et al. **J Neurophysiol** 1997 May; 77(5):2685–96

Adrenoreceptor subtype mediating sympathetic-sensory coupling in injured sensory neurons. Chen Y, et al. **J Neurophysiol** 1996 Dec;76(6):3721–30

Functional consequences of bag2 and chain fiber coactivation by static gamma-axons in cat spindles. Emonet-Dénand F, et al. **J Neurophysiol** 1997 Mar;77(3):1425–31

Differential activation of two distinct mechanisms for presynaptic inhibition by a single inhibitory axon. Fischer Y, et al. **J Neurophysiol** 1996 Dec;76(6):3807–16

Function of the hyperpolarization-activated inward rectification in nonmyelinated peripheral rat and human axons. Grafe P, et al. **J Neurophysiol** 1997 Jan;77(1):421–6

Spontaneous switching between ortho- and antidromic spiking as the normal mode of firing in the cerebral giant neurons of freely behaving Lymnaea stagnalis. Jansen RF, et al. **J Neurophysiol** 1996 Dec;76(6):4206–9

Spinothalamic and spinohypothalamic tract neurons in the sacral spinal cord of rats. I. Locations of antidromically identified axons in the cervical cord and diencephalon. Katter JT, et al. **J Neurophysiol** 1996 Jun;75(6):2581–605

Spinohypothalamic tract neurons in the cervical enlargement of rats: locations of antidromically identified ascending axons and their collateral branches in the contralateral brain. Kostarczyk E, et al. **J Neurophysiol** 1997 Jan; 77(1):435–51

Contractile properties of single motor units in human toe extensors assessed by intraneural motor axon stimulation. Macefield VG, et al. **J Neurophysiol** 1996 Jun;75(6):2509–19

Synaptic potentials and threshold currents underlying spike production in motor giant axons of Aglantha digitale. Meech RW, et al. **J Neurophysiol** 1995 Oct;74(4):1662–70

NT-3 increases amplitude of EPSPs produced by axotomized group Ia afferents. Munson JB, et al. **J Neurophysiol** 1997 Apr;77(4):2209–12

Structural and functional alterations in rat corticospinal neurons after axotomy. Tseng GF, et al. **J Neurophysiol** 1996 Jan;75(1):248–67

Correlation of peripheral innervation density and dorsal horn map scale. Wang L, et al. **J Neurophysiol** 1997 Aug; 78(2):689–702

Intrinsic injury signals enhance growth, survival, and excitability of Aplysia neurons. Ambron RT, et al. **J Neurosci** 1996 Dec 1;16(23):7469–77

Retinal ganglion cell axons recognize specific guidance cues present in the deafferented adult rat superior colliculus. Bähr M, et al. **J Neurosci** 1996 Aug 15;16(16):5106–16

Protection of retinal ganglion cells from natural and axotomy-induced cell death in neonatal transgenic mice overexpressing bcl-2. Bonfanti L, et al. **J Neurosci** 1996 Jul 1;16(13):4186–94

Axonal action-potential initiation and Na+ channel densities in the soma and axon initial segment of subicular pyramidal neurons. Colbert CM, et al. **J Neurosci** 1996 Nov 1; 16(21):6676–86

Purkinje cell survival and axonal regeneration are age dependent: an in vitro study. Dusart I, et al. **J Neurosci** 1997 May 15;17(10):3710–26

Conduction in segmentally demyelinated mammalian central axons. Felts PA, et al. **J Neurosci** 1997 Oct 1;17(19):7267–77

Expression of specific tubulin isotypes increases during regeneration of injured CNS neurons, but not after the application of brain-derived neurotrophic factor (BDNF). Fournier AE, et al. **J Neurosci** 1997 Jun 15;17(12):4623–32

Retroviral misexpression of engrailed genes in the chick optic tectum perturbs the topographic targeting of retinal axons. Friedman GC, et al. **J Neurosci** 1996 Sep 1;16(17):5498–509

Competition among the axonal projections of an identified neuron contributes to the retraction of some of those projections. Gan WB, et al. **J Neurosci** 1997 Jun 1; 17(11):4293–301

Axonal interactions regulate Schwann cell apoptosis in developing peripheral nerve: neuregulin receptors and the role of neuregulins. Grinspan JB, et al. **J Neurosci** 1996 Oct 1;16(19):6107–18

Selective expression of the immediate early gene c-jun in axotomized rat medial septal neurons is not related to neuronal degeneration. Haas CA, et al. **J Neurosci** 1996 Mar 1;16(5):1894–903

Adenoviral vector-mediated expression of B-50/GAP-43 induces alterations in the membrane organization of olfactory axon terminals in vivo. Holtmaat AJ, et al. **J Neurosci** 1997 Sep 1;17(17):6575–86

The soluble N-ethylmaleimide-sensitive factor attached protein receptor complex in growth cones: molecular aspects of the axon terminal development. Igarashi M, et al. **J Neurosci** 1997 Feb 15;17(4):1460–70

Growth cone form is behavior-specific and, consequently, position-specific along the retinal axon pathway. Mason CA, et al. **J Neurosci** 1997 Feb 1;17(3):1086–100

Dynamic organization of endocytic pathways in axons of cultured sympathetic neurons. Overly CC, et al. **J Neurosci** 1996 Oct 1;16(19):6056–64

Trophic effects of androgen: receptor expression and the survival of laryngeal motor neurons after axotomy. Pérez J, et al. **J Neurosci** 1996 Nov 1;16(21):6625–33

Androgen mitigates axotomy-induced decreases in calbindin expression in motor neurons. Pérez J, et al. **J Neurosci** 1997 Oct 1;17(19):7396–403

Oligodendroglia regulate the regional expansion of axon caliber and local accumulation of neurofilaments during development independently of myelin formation. Sánchez I, et al. **J Neurosci** 1996 Aug 15;16(16):5095–105

Endogenous ciliary neurotrophic factor is a lesion factor for axotomized motoneurons in adult mice. Sendtner M, et al. **J Neurosci** 1997 Sep 15;17(18):6999–7006

Microtubule transport from the cell body into the axons of growing neurons. Slaughter T, et al. **J Neurosci** 1997 Aug 1;17(15):5807–19

Estrogen induces axonal outgrowth in the nucleus retroambiguus-lumbosacral motoneuronal pathway in the adult female cat. VanderHorst VG, et al. **J Neurosci** 1997 Feb 1;17(3):1122–36

Stop and branch behaviors of geniculocortical axons: a time-lapse study in organotypic cocultures. Yamamoto N, et al. **J Neurosci** 1997 May 15;17(10):3653–63

OCAM: A new member of the neural cell adhesion molecule family related to zone-to-zone projection of olfactory and vomeronasal axons. Yoshihara Y, et al. **J Neurosci** 1997 Aug 1;17(15):5830–42

Intracortical axonal projections of lamina VI cells of the primary somatosensory cortex in the rat: a single-cell labeling study. Zhang ZW, et al. **J Neurosci** 1997 Aug 15; 17(16):6365–79

Localized and transient elevations of intracellular Ca2+ induce the dedifferentiation of axonal segments into growth cones. Ziv NE, et al. **J Neurosci** 1997 May 15; 17(10):3568–79

Use of Aplysia neurons for the study of cellular alterations and the resealing of transected axons in vitro. Spira ME, et al. **J Neurosci Methods** 1996 Oct 21;69(1):91–102

Maxsim, software for the analysis of multiple axonal arbors and their simulated activation. Tettoni L, et al. **J Neurosci Methods** 1996 Jul;67(1):1–9

Axonal growth-related cell surface molecule, neurin-1, involved in neuron-glia interaction. Asou H, et al. **J Neurosci Res** 1996 Sep 1;45(5):571–87

Reducing p75 nerve growth factor receptor levels using antisense oligonucleotides prevents the loss of axotomized

sensory neurons in the dorsal root ganglia of newborn rats. Cheema SS, et al. **J Neurosci Res** 1996 Oct 15;46(2):239–45

Phospholipase A2 activity is required for regeneration of sensory axons in cultured adult sciatic nerves. Edström A, et al. **J Neurosci Res** 1996 Jan 15;43(2):183–9

Cholesterol reutilization during myelination of regenerating PNS axons is impaired in Niemann–Pick disease type C mice. Goodrum JF, et al. **J Neurosci Res** 1997 Aug 1; 49(3):389–92

Axonal regrowth through collagen tubes bridging the spinal cord to nerve roots. Liu S, et al. **J Neurosci Res** 1997 Aug 15;49(4):425–32

Striatal target–induced axonal branching of dopaminergic mesencephalic neurons in culture via diffusible factors. Manier M, et al. **J Neurosci Res** 1997 May 15;48(4):358–71

Regeneration of neurosecretory axons into various types of intrahypothalamic graft is promoted by the absence of the blood–brain barrier: a neurophysin–immunohistochemical and horseradish peroxidase–histochemical study. Ouassat M, et al. **J Neurosci Res** 1997 Jan 15;47(2):173–85

Association of syntaxin with SNAP–25 and VAMP (synaptobrevin) during axonal transport. Shiff G, et al. **J Neurosci Res** 1997 May 15;48(4):313–23

Axon–Schwann cell interactions regulate the expression of c–jun in Schwann cells. Shy ME, et al. **J Neurosci Res** 1996 Mar 1;43(5):511–25

Brain–derived neurotrophic factor spares choline acetyltransferase mRNA following axotomy of motor neurons in vivo. Wang W, et al. **J Neurosci Res** 1997 Jan 15;47(2):134–43

Transcriptional repression of the growth–associated T alpha1 alpha–tubulin gene by target contact. Wu W, et al. **J Neurosci Res** 1997 Jun 1;48(5):477–87

Tenascin–C expression and axonal sprouting following injury to the spinal dorsal columns in the adult rat. Zhang Y, et al. **J Neurosci Res** 1997 Aug 15;49(4):433–50

A head impact model of early axonal injury in the sheep. Lewis SB, et al. **J Neurotrauma** 1996 Sep;13(9):505–14

Glutamate receptor–mediated synaptic excitation in axons of the lamprey. Cochilla AJ, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):443–57

K+ accumulation and K+ conductance inactivation during action potential trains in giant axons of the squid Sepioteuthis. Inoue I, et al. **J Physiol (Lond)** 1997 Apr 15; 500 (Pt 2):355–66

Excitability changes in human cutaneous afferents induced by prolonged repetitive axonal activity. Kiernan MC, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):255–64

Heat–evoked vasodilatation in human hairy skin: axon reflexes due to low–level activity of nociceptive afferents. Magerl W, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):837–48

Single axon IPSPs elicited in pyramidal cells by three classes of interneurones in slices of rat neocortex. Thomson AM, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):81–102

Axonal conduction velocity of motor units of rat's medial gastrocnemius muscle. Celichowski J, et al. **J Physiol Paris** 1996;90(2):75–8

Model experiments on squid axons and NG108–15 mouse neuroblastoma x rat glioma hybrid cells. Schmitt H, et al. **J Physiol Paris** 1995;89(4–6):181–93 (61 ref.)

Is axonal sprouting able to traverse the conjunctival layers of the peripheral nerve? A behavioral, motor, and sensory study of end–to–side nerve anastomosis. Bertelli JA, et al. **J Reconstr Microsurg** 1996 Nov;12(8):559–63

The selectivity of motor axons during regeneration with sensory axons. Maki Y, et al. **J Reconstr Microsurg** 1996 Nov;12(8):553–6; discussion 556–7

The selectivity of regenerating motor and sensory axons. Maki Y, et al. **J Reconstr Microsurg** 1996 Nov;12(8):547–51

End–to–side neurorrhaphy: a histologic and morphometric study of axonal sprouting into an end–to–side nerve graft. Noah EM, et al. **J Reconstr Microsurg** 1997 Feb; 13(2):99–106

huckebein is required for glial development and axon pathfinding in the neuroblast 1–1 and neuroblast 2–2 lineages in the Drosophila central nervous system. Bossing T, et al. **Mech Dev** 1996 Mar;55(1):53–64

Role of polysialic acid in peripheral myelinated axons. Carratù MR, et al. **Microsc Res Tech** 1996 Aug 15; 34(6):489–91 (13 ref.)

Increased axonal regeneration over long nerve gaps using autologous nerve–muscle sandwich grafts. Whitworth IH, et al. **Microsurgery** 1995;16(12):772–8

NGF but not NT–3 or BDNF prevents the A fiber sprouting into lamina II of the spinal cord that occurs following axotomy. Bennett DL, et al. **Mol Cell Neurosci** 1996; 8(4):211–20

Telling axons where to grow: a role for Eph receptor tyrosine kinases in guidance. Brambilla R, et al. **Mol Cell Neurosci** 1995 Dec;6(6):487–95 (65 ref.)

NCAM is essential for axonal growth and fasciculation in the hippocampus. Cremer H, et al. **Mol Cell Neurosci** 1997; 8(5):323–35

CAM–FGF receptor interactions: a model for axonal growth. Doherty P, et al. **Mol Cell Neurosci** 1996;8(2–3):99–111 (77 ref.)

An in vitro model of the rat dorsal root entry zone reveals developmental changes in the extent of sensory axon growth into the spinal cord. Golding JP, et al. **Mol Cell Neurosci** 1996 Mar;7(3):191–203

Axon–regenerating retinal ganglion cells in adult rats synthesize the cell adhesion molecule L1 but not TAG–1 or SC–1. Jung M, et al. **Mol Cell Neurosci** 1997;9(2):116–31

Axon tracts correlate with netrin–1a expression in the zebrafish embryo. Lauderdale JD, et al. **Mol Cell Neurosci** 1997;9(4):293–313

P0 is constitutively expressed in the rat neural crest and embryonic nerves and is negatively and positively regulated by axons to generate non–myelin–forming and myelin–forming Schwann cells, respectively. Lee M, et al. **Mol Cell Neurosci** 1997;8(5):336–50

Expression of an L1–related cell adhesion molecule on developing CNS fiber tracts in zebrafish and its functional contribution to axon fasciculation. Weiland UM, et al. **Mol Cell Neurosci** 1997 Jan;9(1):77–89

Overexpression of c–src and n–src in the developing Xenopus retina differentially impairs axonogenesis. Worley TL, et al. **Mol Cell Neurosci** 1997;9(4):276–92

Chemoattraction of sensory neuron growth cones by diffusible concentration gradients of acetylcholine. Kuffler DP. **Mol Chem Neuropathol** 1996 May–Aug; 28(1–3):199–208

Role of laminin and integrin interactions in growth cone guidance. McKerracher L, et al. **Mol Neurobiol** 1996 Apr; 12(2):95–116 (157 ref.)

Magnetic stimulation excites skeletal muscle via motor nerve axons in the cat. Ellaway PH, et al. **Muscle Nerve** 1997 Sep;20(9):1108–14

Abnormal axonal inward rectification in diabetic neuropathy. Horn S, et al. **Muscle Nerve** 1996 Oct;19(10):1268–75

Strength–duration properties of sensory and motor axons in carpal tunnel syndrome. Mogyoros I, et al. **Muscle Nerve** 1997 Apr;20(4):508–10

Axon reflexes or ephaptic responses simulating blink reflex R1 after XII–VII nerve anastomosis. Montero J, et al. **Muscle Nerve** 1996 Jul;19(7):848–52

Chronic idiopathic axonal polyneuropathy [letter; comment] Notermans NC, et al. **Muscle Nerve** 1996 Dec; 19(12):1637–8. Comment on: Muscle Nerve 1996 Mar;19(3):365–71.

Sural/radial amplitude ratio in the diagnosis of mild axonal polyneuropathy. Rutkove SB, et al. **Muscle Nerve** 1997 Oct; 20(10):1236–41

Single–fiber electromyography, nerve conduction studies, and conventional electromyography in patients with critical–illness polyneuropathy: evidence for a lesion of terminal motor axons. Schwarz J, et al. **Muscle Nerve** 1997 Jun;20(6):696–701

Help from within for damaged axons [news; comment] Barde YA. **Nature** 1997 Jan 30;385(6615):391, 393. Comment on: Nature 1997 Jan 30;385(6615):434–9.

Bcl–2 promotes regeneration of severed axons in mammalian CNS [see comments] Chen DF, et al. **Nature** 1997 Jan 30; 385(6615):434–9. Comment in: Nature 1997 Jan 30;385(6615):391–3.

Action–potential propagation gated by an axonal I(A)–like K+ conductance in hippocampus. Debanne D, et al. **Nature** 1997 Sep 18;389(6648):286–9

Axons follow Reelin routes [news; comment] Ghosh A. **Nature** 1997 Jan 2;385(6611):23–4. Comment on: Nature 1997 Jan 2;385(6611):70–4.

cAMP–induced switching in turning direction of nerve growth cones. Song HJ, et al. **Nature** 1997 Jul 17; 388(6639):275–9

Selective loss of slow and enhancement of fast Na+ currents in cutaneous afferent dorsal root ganglion neurones following axotomy. Rizzo MA, et al. **Neurobiol Dis** 1995 Apr;2(2):87–96

Upregulation of NMDARI mRNA induced by MK–801 is associated with massive death of axotomized motor neurones in adult rats. Sanner C, et al. **Neurobiol Dis** 1994 Dec;1(3):121–9

Reinnervation of denervated hindlimb muscles by axons of grafted motoneurons via the reimplanted L4 ventral root. Nógrádi A, et al. **Neurobiology (Bp)** 1996;4(3):231–2

Neuronal migrations and axon fasciculation are disrupted in ina–1 integrin mutants. Baum PD, et al. **Neuron** 1997 Jul; 19(1):51–62

A putative cyclic nucleotide–gated channel is required for sensory development and function in C. elegans. Coburn CM, et al. **Neuron** 1996 Oct;17(4):695–706

Transcriptional regulation of axon pathfinding. Daston MM, et al. **Neuron** 1996 Jul;17(1):5–8 (14 ref.)

Hepatocyte growth factor/scatter factor is an axonal chemoattractant and a neurotrophic factor for spinal motor neurons. Ebens A, et al. **Neuron** 1996 Dec;17(6):1157–72

Endogenous progenitors remyelinate demyelinated axons in the adult CNS. Gensert JM, et al. **Neuron** 1997 Jul; 19(1):197–203

Axons turn as netrins find their receptor. Keynes R, et al. **Neuron** 1996 Dec;17(6):1031–4 (25 ref.)

Molecular biology of axon guidance. Nieto MA. **Neuron** 1996 Dec;17(6):1039–48 (49 ref.)

Presynaptic development at the Drosophila neuromuscular junction: assembly and localization of presynaptic active zones. Prokop A, et al. **Neuron** 1996 Oct;17(4):617–26

Cadherin function is required for axon outgrowth in retinal ganglion cells in vivo. Riehl R, et al. **Neuron** 1996 Nov; 17(5):837–48

Guidance of circumferentially growing axons by netrin–dependent and –independent floor plate chemotropism in the vertebrate brain. Shirasaki R, et al. **Neuron** 1996 Dec;17(6):1079–88

Interference with axonin–1 and NrCAM interactions unmasks a floor–plate activity inhibitory for commissural axons. Stoeckli ET, et al. **Neuron** 1997 Feb;18(2):209–21

The Drosophila islet gene governs axon pathfinding and neurotransmitter identity. Thor S, et al. **Neuron** 1997 Mar; 18(3):397–409

Eph family transmembrane ligands can mediate repulsive guidance of trunk neural crest migration and motor axon outgrowth. Wang HU, et al. **Neuron** 1997 Mar;18(3):383–96

Chemosuppression of retinal axon growth by the mouse optic chiasm. Wang LC, et al. **Neuron** 1996 Nov;17(5):849–62

The spectrum of traumatic axonal injury. Gennarelli TA. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):509–13 (13 ref.)

Pathophysiology of spinal cord trauma: observations on vasogenic oedema and axonal injuries in human and experimental material. Olsson Y, et al. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):518–20

Failure to achieve remyelination of demyelinated rat axons following transplantation of glial cells obtained from the adult human brain. Targett MP, et al. **Neuropathol Appl Neurobiol** 1996 Jun;22(3):199–206

Pressure exposure unmasks differences in release properties between high and low yield excitatory synapses of a single crustacean axon. Golan H, et al. **Neuropharmacology** 1996 Feb;35(2):187–93

Downregulation of metabotropic glutamate receptor 1a in motoneurons after axotomy. Alvarez FJ, et al. **Neuroreport** 1997 May 6;8(7):1711–6

Differential distribution of BDNF and TRKB in regenerating dorsal column axons. Cameron AA. **Neuroreport** 1997 Aug 18;8(12):2655–9

Induction of axon–like processes from axotomized retinal ganglion cells of adult hamsters after intravitreal injection of sciatic nerve exudate. Cho KS, et al. **Neuroreport** 1996 Nov 25;7(18):2879–82

Peripheral NMDA and non–NMDA glutamate receptors contribute to nociceptive behaviors in the rat formalin test. Davidson EM, et al. **Neuroreport** 1997 Mar 3;8(4):941–6

Acute application of an interleukin–1 beta–converting enzyme–specific inhibitor delays axotomy–induced motoneurone death. de Bilbao F, et al. **Neuroreport** 1996 Nov 25;7(18):3051–4

Growth–associated protein (GAP–43) in terminal Schwann cells of rat Pacinian corpuscles. Dubovy P, et al. **Neuroreport** 1996 Sep 2;7(13):2147–50

Changes occur in the ability to promote axonal regeneration as the post–injury period increases. Houle JD, et al. **Neuroreport** 1997 Feb 10;8(3):751–5

Decreased neurofilament gene expression is an index of selective axonal hypotrophy in ageing. Kuchel GA, et al. **Neuroreport** 1997 Feb 10;8(3):799–805

Long–term survival effects of GDNF on neonatal rat facial motoneurons after axotomy. Matheson CR, et al. **Neuroreport** 1997 May 6;8(7):1739–42

Evidence for galanin receptors in primary sensory neurones and effect of axotomy and inflammation. Xu ZQ, et al. **Neuroreport** 1996 Dec 20;8(1):237–42

A nigro–rubro–bulbar pathway to the parvicellular reticular formation in the rat. Yasui Y, et al. **Neuroreport** 1996 Apr 26;7(6):1157–60

Specific up–regulation of the POU domain transcription factor Oct–2 following axotomy. Begbie JL, et al. **Neurosci Lett** 1996 Apr 5;207(3):183–6

Increased expression of the alpha subunit of the ciliary neurotrophic factor (CNTF) receptor by rat racial motoneurons after neonatal axotomy and CNTF treatment. Duberley RM, et al. **Neurosci Lett** 1996 Nov 8; 218(3):188–92

Up–regulation of nitric oxide synthase and its mRNA in vagal motor nuclei following axotomy in rat. Lin LH, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):97–100

Multiple projections are unlikely to account for the survival of rat medial septal neurons after axotomy. Naumann T, et al. **Neurosci Lett** 1996 Jun 21;211(2):117–20

Single neurons in Barrington's nucleus projecting to both the paraventricular thalamic nucleus and the spinal cord by way of axon collaterals: a double labeling study in the rat. Otake K, et al. **Neurosci Lett** 1996 May 10; 209(2):97–100

Reduced sympathetic sprouting occurs in dorsal root ganglia after axotomy in mice lacking low–affinity neurotrophin receptor. Ramer M, et al. **Neurosci Lett** 1997 May 30; 228(1):9–12

Afferent and efferent branching axons from the rat lumbo–sacral spinal cord project both to the urinary bladder and the urethra as demonstrated by double retrograde neuronal labeling. Russo A, et al. **Neurosci Lett** 1996 Nov 29;219(3):155–8

Axonal branching and termination of cervical reticulospinal neurons in the cat brachial segments. Sasaki S. **Neurosci Lett** 1997 Jun 6;228(2):83–6

Plasma extravasation and neuropeptide release in human skin as measured by intradermal microdialysis. Schmelz M, et al. **Neurosci Lett** 1997 Jul 18;230(2):117–20

Cat pontocerebellar network: numerical capacity and axonal collateral branching of neurones in the pontine nuclei projecting to individual paraflocculus folia. Bjaalie JG, et al. **Neurosci Res** 1997 Mar;27(3):199–210

Electron microscopic serial analysis of GABA presynaptic terminals on the axon hillock and initial segment of labeled abducens motoneurons in the rat. Lahjouji F, et al. **Neurosci Res** 1997 Feb;27(2):143–53

Recurrent inhibition in amygdalo-cortical projection neurons of the rat via collaterals of fast-conducting axons. Matsuda Y, et al. **Neurosci Res** 1996 Aug;25(4):385–9

Topographic distribution and collateral projections of the two major populations of nigrothalamic neurons. A retrograde labeling study in the rat. Nishimura Y, et al. **Neurosci Res** 1997 May;28(1):1–9

Low-affinity nerve growth factor receptor is associated with motoneuron axonal pathways. Tanaka H, et al. **Neurosci Res** 1997 Jan;27(1):21–7

Peripheral axotomy induces increased expression of neurotensin in large neurons in rat lumbar dorsal root ganglia. Zhang X, et al. **Neurosci Res** 1996 Aug; 25(4):359–69

The early neuronal organization predicts the path followed by some major axonal bundles in the embryonic brainstem. Bélanger MC, et al. **Neuroscience** 1997 May;78(1):259–70

Bridge grafts of fibroblast growth factor-4-secreting schwannoma cells promote functional axonal regeneration in the nigrostriatal pathway of the adult rat. Brecknell JE, et al. **Neuroscience** 1996 Oct;74(3):775–84

Expression of a developmentally regulated, phosphorylated isoform of microtubule-associated protein 1B in regenerating axons of the sciatic nerve. Bush MS, et al. **Neuroscience** 1996 Jul;73(2):553–63

Membrane properties and inhibitory connections of normal and upper cervically axotomized rubrospinal neurons in the rat. Chen JR, et al. **Neuroscience** 1997 Jul;79(2):449–62

Climbing fibre collaterals contact neurons in the cerebellar nuclei that provide a GABAergic feedback to the inferior olive. De Zeeuw CI, et al. **Neuroscience** 1997 Oct; 80(4):981–6

Axonal outgrowth and neuronal apoptosis in cultured adult mouse dorsal root ganglion preparations: effects of neurotrophins, of inhibition of neurotrophin actions and of prior axotomy. Edström A, et al. **Neuroscience** 1996 Dec; 75(4):1165–74

Induction of transmitter release at the neuromuscular junction prevents motoneuron death after axotomy in neonatal rats. Greensmith L, et al. **Neuroscience** 1996 Mar; 71(1):213–20

Transmission by post-ganglionic axons of the autonomic nervous system: the importance of the specialized neuroeffector junction. Hirst GD, et al. **Neuroscience** 1996 Jul;73(1):7–23 (144 ref.)

Axotomized septal cholinergic neurons rescued by nerve growth factor or neurotrophin-4/5 fail to express the inducible transcription factor c-Jun. Hughes PE, et al. **Neuroscience** 1997 Jun;78(4):1037–49

Specific axon guidance factors persist in the adult brain as demonstrated by pig neuroblasts transplanted to the rat. Isacson O, et al. **Neuroscience** 1996 Dec;75(3):827–37

Dopaminergic neuronal degeneration and motor impairments following axon terminal lesion by instrastriatal 6-hydroxydopamine in the rat. Lee CS, et al. **Neuroscience** 1996 Jun;72(3):641–53

Dentate granule cell layer collagen explant cultures: spontaneous axonal growth and induction by brain-derived neurotrophic factor or basic fibroblast growth factor. Lowenstein DH, et al. **Neuroscience** 1996 Oct; 74(4):1197–208

A confocal microscopic survey of serotoninergic axons in the lumbar spinal cord of the rat: co-localization with glutamate decarboxylase and neuropeptides. Maxwell L, et al. **Neuroscience** 1996 Nov;75(2):471–80

Evidence for serotonin sensitivity of adult rat spinal axons: studies using randomized double pulse stimulation. Saruhashi Y, et al. **Neuroscience** 1997 Sep;80(2):559–66

The subthalamic nucleus and the external pallidum: two tightly interconnected structures that control the output of the basal ganglia in the monkey. Shink E, et al. **Neuroscience** 1996 Jul;73(2):335–57

Expression of a developmentally regulated, phosphorylated isoform of microtubule-associated protein 1B in sprouting and regenerating axons in vitro. Tonge DA, et al. **Neuroscience** 1996 Jul;73(2):541–51

Identification and characterization of a novel gene (neurorep 1) expressed in nerve cells and up-regulated after axotomy. Uwabe K, et al. **Neuroscience** 1997 Sep;80(2):501–9

Regeneration of injured axons in the adult mammalian central nervous system. Tatagiba M, et al. **Neurosurgery** 1997 Mar; 40(3):541–6; discussion 546–7 (45 ref.)

Rapid sprouting of sympathetic axons in dorsal root ganglia of rats with a chronic constriction injury. Ramer MS, et al. **Pain** 1997 Apr;70(2–3):237–44

Intracellular mechanisms of axon growth induction by CAMs and integrins: some unresolved issues. Bixby JL, et al. **Perspect Dev Neurobiol** 1996;4(2–3):147–56 (79 ref.)

Signal transduction in vertebrate growth cones navigating in vivo. Chien CB, et al. **Perspect Dev Neurobiol** 1996; 4(2–3):253–66 (77 ref.)

Tyrosine phosphorylation and protrusive structures of the growth cone. Goldberg DJ, et al. **Perspect Dev Neurobiol** 1996;4(2–3):183–92 (65 ref.)

Molecular mechanisms of directed growth cone motility. Jay DG. **Perspect Dev Neurobiol** 1996;4(2–3):137–45 (67 ref.)

Investigations of signaling pathways in axon growth and guidance. Klostermann S, et al. **Perspect Dev Neurobiol** 1996;4(2–3):237–52 (53 ref.)

The cytoskeleton in nerve growth cone motility and axonal pathfinding. Letourneau PC. **Perspect Dev Neurobiol** 1996; 4(2–3):111–23 (85 ref.)

Small GTPases in axon outgrowth. Luo L, et al. **Perspect Dev Neurobiol** 1996;4(2–3):199–204 (25 ref.)

Functional compartmentalization of the neuronal growth cone: determining calcium's place in signaling cascades. Rehder V, et al. **Perspect Dev Neurobiol** 1996;4(2–3):215–26 (57 ref.)

Signal transduction during axon guidance: a genetic analysis in Drosophila. Vanberkum MF. **Perspect Dev Neurobiol** 1996;4(2–3):227–36 (89 ref.)

Calcium and chemotropic turning of nerve growth cones. Zheng JQ, et al. **Perspect Dev Neurobiol** 1996;4(2–3):205–13 (65 ref.)

Changes in neuropeptide phenotype after axotomy of adult peripheral neurons and the role of leukemia inhibitory factor. Zigmond RE, et al. **Perspect Dev Neurobiol** 1996; 4(1):75–90 (146 ref.)

The origin of neuronal polarization: a model of axon formation. Samuels DC, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Sep 30; 351(1344):1147–56

Membrane-associated molecules regulate the formation of layer-specific cortical circuits. Castellani V, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7030–5

Repair of plasmalemmal lesions by vesicles. Eddleman CS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4745–50

The cell surface metalloprotease/disintegrin Kuzbanian is required for axonal extension in Drosophila. Fambrough D, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13233–8

Calpain activity promotes the sealing of severed giant axons. Godell CM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4751–6

Microtubule reorganization is obligatory for growth cone turning. Williamson T, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15221–6

Promotion of regeneration and axon growth following injury in an invertebrate nervous system by the use of three-dimensional collagen gels. Blackshaw SE, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):657–61

Axon decussation and midline glia in the developing ferret auditory hindbrain. Brunso-Bechtold JK, et al. **Prog Brain Res** 1996;108:165–81 (67 ref.)

Prenatal development of axon outgrowth and connectivity. Casagrande VA, et al. **Prog Brain Res** 1996;108:83–93 (71 ref.)

The functional morphology of thin sensory axons: some principles and problems. Kruger L. **Prog Brain Res** 1996; 113:255–72 (95 ref.)

Alterations in the functional properties of dorsal root ganglion cells with unmyelinated axons after a chronic nerve constriction in the rat. LaMotte RH, et al. **Prog Brain Res** 1996;110:105–11 (32 ref.)

Intrinsic properties and environmental factors in the regeneration of adult cerebellar axons. Rossi F, et al. **Prog Brain Res** 1997;114:283–96 (43 ref.)

Control of retinotectal axon arbor growth by postsynaptic CaMKII. Zou DJ, et al. **Prog Brain Res** 1996;108:303–12 (44 ref.)

Ganglionic axons in motor roots and pia mater. Hildebrand C, et al. **Prog Neurobiol** 1997 Feb;51(2):89–128 (276 ref.)

The heat shock stress response after brain lesions: induction of 72 kDa heat shock protein (cell types involved, axonal transport, transcriptional regulation) and protein synthesis inhibition. Planas AM, et al. **Prog Neurobiol** 1997 Apr; 51(6):607–36 (256 ref.)

Bioartificial nerve grafts. A prototype. Lundborg G, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Jun; 30(2):105–10

Bioartificial nerve grafts based on absorbable guiding filament structures--early observations. Terada N, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Mar;31(1):1–6

Alterations in synaptic strength preceding axon withdrawal [see comments] Colman H, et al. **Science** 1997 Jan 17; 275(5298):356–61. Comment in: Science 1997 Jan 17;275(5298):324–5.

Repair of adult rat corticospinal tract by transplants of olfactory ensheathing cells [see comments] Li Y, et al. **Science** 1997 Sep 26;277(5334):2000–2. Comment in: Science 1997 Sep 26;277(5334):1907.

Are pushy axons a key to spinal cord repair? [news] Roush W. **Science** 1997 Jun 27;276(5321):1971–2

Putative cancer gene shows up in development instead [news] Roush W. **Science** 1997 Apr 25;276(5312):534–5

The molecular biology of axon guidance. Tessier-Lavigne M, et al. **Science** 1996 Nov 15;274(5290):1123–33 (120 ref.)

Axotomy-induced alterations in the red nucleus revealed by monoclonal antibody, Py, following a low thoracic spinal cord lesion in the adult rat. Brook GA, et al. **Spinal Cord** 1997 Jul;35(7):474–81

Motoneurons of the injured spinal cord of the adult dog can grow lengthy axons into an autologous peripheral nerve graft. A retrograde axonal tracing study. Moissonnier P, et al. **Spinal Cord** 1996 Jun;34(6):320–5

Rabphilin-3A is transported with fast anterograde axonal transport and associated with synaptic vesicles. Li JY. **Synapse** 1996 Jun;23(2):79–88

Axosomatic input to subpopulations of cortically projecting pyramidal neurons in primate prefrontal cortex. Melchitzky DS, et al. **Synapse** 1997 Apr;25(4):326–34

Axosomatic synapses of the rat ciliary ganglion. Robertson GN, et al. **Synapse** 1996 Mar;22(3):269–80

Diisopropylfluorophosphate-induced depression of segmental monosynaptic transmission in neonatal rat spinal cord is also mediated by increased axonal activity. Deshpande SB, et al. **Toxicol Lett** 1997 Feb 7; 90(2–3):177–82

Enhancement of axon growth by detergent-extracted nerve grafts. Dumont CE, et al. **Transplantation** 1997 May 15; 63(9):1210–5

The Eph receptor family: axonal guidance by contact repulsion. Orioli D, et al. **Trends Genet** 1997 Sep; 13(9):354–9 (49 ref.)

Enlightening the path of axons. Harsum S, et al. **Trends Neurosci** 1996 Dec;19(12):527–8 (16 ref.)

Genetic analysis of axon guidance and mapping in the zebrafish. Karlstrom RO, et al. **Trends Neurosci** 1997 Jan; 20(1):3–8 (48 ref.)

Growth cones and the cues that repel them. Kolodkin AL. **Trends Neurosci** 1996 Nov;19(11):507–13 (64 ref.)

Organization of retinal ganglion cell axons in the optic fiber layer and nerve of fetal ferrets. Fitzgibbon T, et al. **Vis Neurosci** 1996 Sep-Oct;13(5):847–61

The optic tract in embryonic hamsters: fasciculation, defasciculation, and other rearrangements of retinal axons. Jhaveri S, et al. **Vis Neurosci** 1996 Mar-Apr;13(2):359–74

Physiology of the A1 amacrine: a spiking, axon-bearing interneuron of the macaque monkey retina. Stafford DK, et al. **Vis Neurosci** 1997 May-Jun;14(3):507–22

[Regenerating axons selectively reinnervate their target organs after the peripheral nerves were tubulated] Luo Z, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):44–6 (Eng. Abstr.) **(Chi)**

[Axonal regeneration of retinal ganglion cells] Takano M. **Nippon Ganka Gakkai Zasshi** 1996 Dec;100(12):972–81 (Eng. Abstr.) **(Jpn)**

[Axonal motor neuropathy associated with anti-SGPG antibody] Hashiguchi S, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):224–7 (Eng. Abstr.) **(Jpn)**

[The effect of brain-derived neurotrophic factor on elongation of axons after transection with suture-morphometric evaluation] Ohnishi A, et al. **Sangyo Ika Daigaku Zasshi** 1997 Mar 1;19(1):23–8 (Eng. Abstr.) **(Jpn)**

[Experimental and pathological models that explain the regulation of cellular migration and axon's orientations] Gómez MR, et al. **Rev Neurol** 1996 Nov;24(135):1351–5 (Eng. Abstr.) **(Spa)**

[Motor neurons regenerate axons after CNS-injury. Surgery in cases of rotavulsion restore motor functions] Cullheim S, et al. **Lakartidningen** 1996 Dec 4;93(49):4537–41 (20 ref.) **(Swe)**

ULTRASTRUCTURE

Degenerative axonal swellings in the trigeminal ganglia of cattle. Furuoka H, et al. **Acta Neuropathol (Berl)** 1996 Oct; 92(4):409–14

Amyotrophic lateral sclerosis with numerous axonal spheroids in the corticospinal tract and massive degeneration of the cortex. Takahashi T, et al. **Acta Neuropathol (Berl)** 1997 Sep;94(3):294–9

Ultrastructure of sympathetic axons and their structural relationship with vascular smooth muscle. Luff SE. **Anat Embryol (Berl)** 1996 Jun;193(6):515–31 (150 ref.)

Pericapillary and distant axon terminals in the nuclei of the cat amygdala: a morphometric study. Lukaszyk I, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):297–302

Classes of axons and their distribution in the optic nerve of the tree shrew (Tupaia belangeri). Drenhaus U, et al. **Anat Rec** 1997 Sep;249(1):103–16

Axonal damage in acute multiple sclerosis lesions. Ferguson B, et al. **Brain** 1997 Mar;120 (Pt 3):393–9

Three-dimensional morphology and distribution of pallidal axons projecting to both the lateral region of the thalamus and the central complex in primates. Arecchi-Bouchhioua P, et al. **Brain Res** 1997 Apr 18;754(1–2):311–4

Bifurcated projections of retinal ganglion cells bilaterally innervate the lateral geniculate nuclei in the cat. Dong K, et al. **Brain Res** 1995 Dec 12;703(1–2):231–6

Distribution of mossy fibres in the hippocampus of two closely related species of mice. Donovan J, et al. **Brain Res** 1996 Sep 2;732(1–2):253–6

Synaptic contacts of substance P-immunoreactive axon terminals in the nucleus tractus solitarius onto neurons projecting to the caudal ventrolateral medulla oblongata in the rat. Kawano H, et al. **Brain Res** 1997 Apr 18; 754(1–2):315–20

Characterization of a distinct set of intra-axonal ultrastructural changes associated with traumatically induced alteration in axolemmal permeability. Pettus EH, et al. **Brain Res** 1996 May 25;722(1–2):1–11

Ultrastructural localization of the kainate selective glutamate receptor in noradrenergic perikarya and dendrites of the nucleus locus coeruleus in the rat brain. Van Bockstaele EJ, et al. **Brain Res** 1996 Sep 2;732(1–2):223–31

Ultrastructural morphology of synapses formed by corticostriatal terminals in the avian striatum. Veenman CL, et al. **Brain Res** 1996 Jan 22;707(1):1–12

Axonal origin and purity of growth cones isolated from fetal rat brain. Lohse K, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):83–96

Ultrastructural study of ensheathing cells in early development of olfactory axons. Tennent R, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):135–9

An orderly development of paranodal axoglial junctions and

bracelets of Nageotte in the rat sural nerve. Yamamoto K, et al. **Brain Res Dev Brain Res** 1996 Oct 23; 96(1–2):36–45

Rescue of motoneurons from axotomy–induced cell death by polymer encapsulated cells genetically engineered to release CNTF. Tan SA, et al. **Cell Transplant** 1996 Sep–Oct;5(5):577–87

Dual role of substance P/GABA axons in cortical neurotransmission: synaptic triads on pyramidal cell spines and basket–like innervation of layer II–III calbindin interneurons in primate prefrontal cortex. Jakab RL, et al. **Cereb Cortex** 1997 Jun;7(4):359–73

The neuronal centrosome as a generator of microtubules for the axon. Baas PW. **Curr Top Dev Biol** 1996;33:281–98 (55 ref.)

Morphology of individual axons in crossed corticorubral projections in developing cats and effects of partial denervation. Murakami F, et al. **Dev Neurosci** 1996; 18(3):162–73

The embryonic cerebellum contains topographic cues that guide developing inferior olivary axons. Chédotal A, et al. **Development** 1997 Feb;124(4):861–70

Structure of the synaptic junctions in the rat sensorimotor cortex. Freeze–etching study of axodendritic synapses. Bozhilova–Pastirova A, et al. **Eur J Morphol** 1996 Dec; 34(5):363–73

Age–related appearance of dystrophic axon terminals in cerebellar and vestibular nuclei of Mongolian gerbils. Takeuchi YK, et al. **Exp Anim** 1997 Jan;46(1):59–65

Synaptic organization of damaged infraorbital nerve axons in perinatal rats: demonstration by galanin immunocytochemistry. Crissman RS, et al. **Exp Brain Res** 1996 Jun;110(1):47–54

Increased axon number in the anterior commissure of mice lacking a corpus callosum. Livy DJ, et al. **Exp Neurol** 1997 Aug;146(2):491–501

Ultrastructural study on axonal and dendritic growth cones in the human embryonic spinal cord. Woźniak W, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:89–90

Effects of prenatal protein malnutrition on mossy fibers of the hippocampal formation in rats of four age groups. Cintra L, et al. **Hippocampus** 1997;7(2):184–91

Kappa opioid receptor–like immunoreactivity is present in substance P–containing subcortical afferents in guinea pig dentate gyrus. Drake CT, et al. **Hippocampus** 1997; 7(1):36–47

Localization of synapsin I in normal fibers and regenerating axonal sprouts of the rat sciatic nerve. Akagi S, et al. **Histochem Cell Biol** 1996 May;105(5):365–73

Axonal neuropathy with perineurial hyperplasia: report of a case with multifocal involvement. Jay V, et al. **J Child Neurol** 1996 Sep;11(5):400–3

Development of axonal arbors of layer 6 pyramidal neurons in ferret primary visual cortex. Callaway EM, et al. **J Comp Neurol** 1996 Dec 9;376(2):295–305

Connectional networks within the orbital and medial prefrontal cortex of macaque monkeys. Carmichael ST, et al. **J Comp Neurol** 1996 Jul 22;371(2):179–207

Individual axon morphology and thalamocortical topography in developing rat somatosensory cortex. Catalano SM, et al. **J Comp Neurol** 1996 Mar 25;367(1):36–53

Development of differential preganglionic projections to pre– and paravertebral sympathetic ganglia. Cornbrooks EB, et al. **J Comp Neurol** 1997 May 26;382(1):1–18

Heterogeneous axonal arborizations of rat thalamic reticular neurons in the ventrobasal nucleus. Cox CL, et al. **J Comp Neurol** 1996 Mar 11;366(3):416–30

Structure of the forewing stretch receptor axon in immature and mature adult locusts. Gray JR, et al. **J Comp Neurol** 1996 Feb 5;365(2):268–77

Regulation of developing dopaminergic axonal arbor size in three–dimensional reaggregate tissue culture. Heller A, et al. **J Comp Neurol** 1997 Aug 4;384(3):349–58

Terminal morphology of two branches arising from a single stem–axon of pretectal (PSm) neurons in the common carp. Ito H, et al. **J Comp Neurol** 1997 Feb 17;378(3):379–88

Initial formation and secondary condensation of nerve pathways in the medicinal leech. Jellies J, et al. **J Comp Neurol** 1996 Sep 9;373(1):1–10

Structural features of crayfish phasic and tonic neuromuscular terminals. King MJ, et al. **J Comp Neurol** 1996 Sep 2;372(4):618–26

Morphology of the Golgi–impregnated Lugaro cell in the rat cerebellar cortex: a reappraisal with a description of its axon. Lainé J, et al. **J Comp Neurol** 1996 Nov 25; 375(4):618–40

Early deletion of neuromeres in Wnt–1–/– mutant mice: evaluation by morphological and molecular markers. Mastick GS, et al. **J Comp Neurol** 1996 Oct 14; 374(2):246–58

Projections from the thoracic cord to the cerebellar nuclei in the rat, studied by anterograde axonal tracing. Matsushita M, et al. **J Comp Neurol** 1997 Sep 29;386(3):409–21

Projections from the cervical enlargement to the cerebellar nuclei in the rat, studied by anterograde axonal tracing. Matsushita M, et al. **J Comp Neurol** 1997 Jan 13; 377(2):251–61

Multi–segmental innervation of single pontine reticulospinal axons in the cervico–thoracic region of the cat: anterograde PHA–L tracing study. Matsuyama K, et al. **J Comp Neurol** 1997 Jan 13;377(2):234–50

Morphology of single axons of tectospinal neurons in the upper cervical spinal cord. Muto N, et al. **J Comp Neurol** 1996 Aug 12;372(1):9–26

Simultaneous anterograde labeling of axonal layers from lateral superior olive and dorsal cochlear nucleus in the inferior colliculus of cat. Oliver DL, et al. **J Comp Neurol** 1997 Jun 2;382(2):215–29

Thalamic collaterals of corticostriatal axons: their termination field and synaptic targets in cats. Paré D, et al. **J Comp Neurol** 1996 Sep 2;372(4):551–67

Myelinated axons and the pyramidal cell modules in monkey primary visual cortex. Peters A, et al. **J Comp Neurol** 1996 Feb 5;365(2):232–55

Neurofilament spacing, phosphorylation, and axon diameter in regenerating and uninjured lamprey axons. Pijak DS, et al. **J Comp Neurol** 1996 May 13;368(4):569–81

Origins and targets of commissural connections between the cochlear nuclei in guinea pigs. Schofield BR, et al. **J Comp Neurol** 1996 Nov 4;375(1):128–46

Peripheral and central predictors of whisker afferent morphology in the rat brainstem. Shortland PJ, et al. **J Comp Neurol** 1996 Nov 18;375(3):481–501

Corpus callosum axons in the developing visual cortex of the gerbil revealed by DiI and Fluorogold. Hilbig H, et al. **J Hirnforsch** 1997;38(1):119–23

Noradrenergic and dopaminergic systems in the central nervous system of the hedgehog (Erinaceus europaeus). Michaloudi HC, et al. **J Hirnforsch** 1996;37(3):319–50

Ultrastructure and distribution of axon terminals from the reticular thalamic nucleus to the anteroventral thalamic nucleus of the rat. Oda S, et al. **J Hirnforsch** 1996; 37(4):459–66

Timing of fiber arrival and dennervation of postsynaptic neurons is required for restoration of visual perception by regenerating axons. Thanos S, et al. **J Hirnforsch** 1996; 37(2):255–67

Dynamics of process formation during differentiation of tectal neurons in embryonic zebrafish. Kaethner RJ, et al. **J Neurobiol** 1997 Jun 5;32(6):627–39

The central pathway of primary olfactory axons is abnormal in mice lacking the N–CAM–180 isoform. Treloar H, et al. **J Neurobiol** 1997 Jun 20;32(7):643–58

The relationship between developing oligodendrocyte units and maturing axons during myelinogenesis in the anterior medullary velum of neonatal rats. Butt AM, et al. **J Neurocytol** 1997 May;26(5):327–38

Axon–glial relationships in early CNS–PNS transitional zone development: an ultrastructural study. Fraher JP. **J Neurocytol** 1997 Jan;26(1):41–52

Axonal cytoskeletal changes after non–disruptive axonal injury. Jafari SS, et al. **J Neurocytol** 1997 Apr;26(4):207–21

Ultrastructural localization of sympathetic axons in experimental rat sciatic nerve neuromas. Small JR, et al. **J Neurocytol** 1996 Oct;25(10):573–82

Axonal viability and the persistence of thermal hyperalgesia after partial freeze lesions of nerve. Myers RR, et al. **J Neurol Sci** 1996 Jul;139(1):28–38

Innervation of adult human laryngeal muscle fibers. Périé S, et al. **J Neurol Sci** 1997 Jul;149(1):81–6

Clinical and neuropathological study of six patients with spastic paraparesis associated with HTLV–I: an axomyelinic degeneration of the central nervous system. Cartier LM, et al. **J Neuropathol Exp Neurol** 1997 Apr; 56(4):403–13

Impact acceleration injury in the rat: evidence for focal axolemmal change and related neurofilament sidearm alteration. Povlishock JT, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):347–59

Dystrophic axonal swellings develop as a function of age and diabetes in human dorsal root ganglia. Schmidt RE, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):1028–43

Dual ultrastructural localization of mu–opioid receptors and NMDA–type glutamate receptors in the shell of the rat nucleus accumbens. Gracy KN, et al. **J Neurosci** 1997 Jun 15;17(12):4839–48

The dopamine transporter: comparative ultrastructure of dopaminergic axons in limbic and motor compartments of the nucleus accumbens. Nirenberg MJ, et al. **J Neurosci** 1997 Sep 15;17(18):6899–907

Dendrodendritic and axoaxonic synapses in the thalamic reticular nucleus of the adult rat. Pinault D, et al. **J Neurosci** 1997 May 1;17(9):3215–33

Electron microscopic differentiation of directly and transneuronally transported DiI and applications for studies of synaptogenesis. Bruce LL, et al. **J Neurosci Methods** 1997 Apr 25;73(1):107–12

Addition of tetrodotoxin alters the morphology of thalamocortical axons in organotypic cocultures. Wilkemeyer MF, et al. **J Neurosci Res** 1996 Mar 15; 43(6):707–18

Treatment of experimental brain injury with moderate hypothermia and 21–aminosteroids. Marion DW, et al. **J Neurotrauma** 1996 Mar;13(3):139–47

A mechanistic analysis of nondisruptive axonal injury: a review. Maxwell WL, et al. **J Neurotrauma** 1997 Jul; 14(7):419–40 (112 ref.)

The axon as a metabolic compartment: protein degradation, transport, and maximum length of an axon. Miller KE, et al. **J Theor Biol** 1997 Jun 7;186(3):373–9

Node–paranode regions as local degradative centres in alpha–motor axons. Gatzinsky KP. **Microsc Res Tech** 1996 Aug 15;34(6):492–506 (117 ref.)

Axoglial dysjunction: a critical appraisal of definition, techniques, and previous results. Giannini C, et al. **Microsc Res Tech** 1996 Aug 1;34(5):436–44 (17 ref.)

Histopathological changes at central nodes of Ranvier after stretch–injury. Maxwell WL. **Microsc Res Tech** 1996 Aug 15;34(6):522–35

Expression of a dominant negative FGF receptor inhibits axonal growth and FGF receptor phosphorylation stimulated by CAMs. Saffell JL, et al. **Neuron** 1997 Feb; 18(2):231–42

Clustering sodium channels at the node of Ranvier: close encounters of the axon–glia kind. Salzer JL. **Neuron** 1997 Jun;18(6):843–6 (24 ref.)

Presynaptic NMDA receptors in the neocortex are both auto– and heteroreceptors. DeBiasi S, et al. **Neuroreport** 1996 Nov 4;7(15–17):2773–6

Tight junctions between the axon and Schwann cell during PNS regeneration. Dezawa M, et al. **Neuroreport** 1996 Jul 29;7(11):1829–32

A spatial and quantitative study of the striatopallidal connection in the monkey. Yelnik J, et al. **Neuroreport** 1996 Apr 10;7(5):985–8

Morphology of axon collaterals of single climbing fibers in the deep cerebellar nuclei of the rat. Sugihara I, et al. **Neurosci Lett** 1996 Oct 11;217(1):33–6

Synaptic connections of Purkinje cell axons with nucleocortical neurones in the cerebellar medial nucleus of the rat. Angaut P, et al. **Neurosci Res** 1996 Dec; 26(4):345–8

Arborization pattern of sympathetic preganglionic axons in the rat superior cervical and stellate ganglia. Asamoto K, et al. **Neurosci Res** 1997 Jul;28(3):235–41

Substance P and enkephalin immunoreactivities in axonal boutons presynaptic to physiologically identified dorsal horn neurons. An ultrastructural multiple–labelling study in the cat. Ma W, et al. **Neuroscience** 1997 Apr; 77(3):793–811

Ultrastructural co–localization of calmodulin and B–50/growth–associated protein–43 at the plasma membrane of proximal unmyelinated axon shafts studied in the model of the regenerating rat sciatic nerve. Verkade P, et al. **Neuroscience** 1997 Aug;79(4):1207–18

Cortical input to the basal forebrain. Zaborszky L, et al. **Neuroscience** 1997 Aug;79(4):1051–78

Ultrastructural study of the cytoskeleton of optic nerve axons in guinea pigs as revealed by a quick–freezing, deep–etching method. Ou B, et al. **Ophthalmic Res** 1996; 28(1):29–35

Ultrastructural study of axonal cytoskeletons in the optic nerve damaged by acutely elevated intraocular pressure using the quick–freezing and deep–etching technique. Ou B, et al. **Ophthalmic Res** 1997;29(1):48–54

Fixed–diameter polyethylene cuffs applied to the rat sciatic nerve induce a painful neuropathy: ultrastructural morphometric analysis of axonal alterations. Mosconi T, et al. **Pain** 1996 Jan;64(1):37–57

Tyrosine phosphorylation and protrusive structures of the growth cone. Goldberg DJ, et al. **Perspect Dev Neurobiol** 1996;4(2–3):183–92 (65 ref.)

The chronotopic reordering of optic axons. Reese BE. **Perspect Dev Neurobiol** 1996;3(3):233–42 (70 ref.)

Microtubule reorganization is obligatory for growth cone turning. Williamson T, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15221–6

Growth cone behaviors during axon guidance in the developing cerebral cortex. Kalil K. **Prog Brain Res** 1996; 108:31–40 (50 ref.)

Cell adhesion/recognition molecule–mediated steps during the guidance of commissural and motor axons. Landmesser L. **Prog Brain Res** 1996;108:109–16 (37 ref.)

Retinal axon divergence in the optic chiasm: growth cone behaviors and signalling cells. Mason CA, et al. **Prog Brain Res** 1996;108:95–107 (66 ref.)

Morphology of single axons of tectospinal and reticulospinal neurons in the upper cervical spinal cord. Shinoda Y, et al. **Prog Brain Res** 1996;112:71–84

Contributions of raphe–cortical and thalamocortical axons to the transient somatotopic pattern of serotonin immunoreactivity in rat cortex. Bennett–Clarke CA, et al. **Somatosens Mot Res** 1997;14(1):27–33

Localization of unmyelinated axons in rat skin and mucocutaneous tissue utilizing the isolectin GS–I–B4. Petruska JC, et al. **Somatosens Mot Res** 1997;14(1):17–26

Vesicular monoamine transporter–2: immunogold localization in striatal axons and terminals. Nirenberg MJ, et al. **Synapse** 1997 Jun;26(2):194–8

Soma and axon diameter distributions and central projections of ferret retinal ganglion cells. Fitzgibbon T, et al. **Vis Neurosci** 1996 Jul–Aug;13(4):773–86

[Analysis of axonal transport using video microscopy] Hori H, et al. **Nippon Seirigaku Zasshi** 1996;58(7–8):283–99 (18 ref.) **(Jpn)**

VIROLOGY

Varicella with acute motor axonal neuropathy. Picard F, et al. **Eur Neurol** 1997;38(1):68–71

AXOPLASMIC FLOW see **AXONAL TRANSPORT**

AXOPLASMIC TRANSPORT see **AXONAL TRANSPORT**

AY-9944

PHARMACOLOGY

Changes in serum sterols of rats treated with 7-dehydrocholesterol-delta 7-reductase inhibitors: comparison to levels in humans with Smith-Lemli-Opitz syndrome. Wolf C, et al. **J Lipid Res** 1996 Jun; 37(6):1325-33

Inhibition of 7-dehydrocholesterol reductase by the teratogen AY9944: a rat model for Smith-Lemli-Opitz syndrome. Kolf-Clauw M, et al. **Teratology** 1996 Sep; 54(3):115-25

AYERZA'S SYNDROME see **HYPERTENSION, PULMONARY**

AYURVEDIC MEDICINE see **MEDICINE, AYURVEDIC**

AZA COMPOUNDS

CHEMICAL SYNTHESIS

Synthesis and properties of the first all-aza analogue of a biologically active peptide. Gante J, et al. **J Pept Sci** 1995 May-Jun;1(3):201-6

4'-Aza-sugar nucleosides. Pickering L, et al. **Nucleic Acids Symp Ser** 1995;(34):9-10

CHEMISTRY

Synthesis and properties of the first all-aza analogue of a biologically active peptide. Gante J, et al. **J Pept Sci** 1995 May-Jun;1(3):201-6

DIAGNOSTIC USE

Tumor uptake and metabolism of copper-67-labeled monoclonal antibody chCE7 in nude mice bearing neuroblastoma xenografts. Novak-Hofer I, et al. **J Nucl Med** 1997 Apr;38(4):536-44

PHARMACOLOGY

Synthesis and dopamine transporter affinity of 2-(methoxycarbonyl)-9-methyl-3-phenyl-9-azabicyclo[3.3.1]nonane derivatives. Chen Z, et al. **J Med Chem** 1996 Nov 22;39(24):4744-9

[The immunobiological properties of trimezon and levamisole on models of humoral and cell-mediated immunogenesis] Liubin GS, et al. **Eksp Klin Farmakol** 1997 Jan-Feb; 60(1):50-2 (Eng. Abstr.) **(Rus)**

TOXICITY

Relationship between resonance energy and carcinogenicity of azaarenes. Kerim A, et al. **Anticancer Res** 1997 Mar-Apr; 17(2A):1011-8

Potential carcinogenicity of the synthetic 1,3,6-triazine (6-aza) nucleic acid analogues determined by DC polarography. I. Nucleobases. Novotný L, et al. **Neoplasma** 1996;43(6):403-6

AZACITIDINE

ADVERSE EFFECTS

5-azacytidine treatment induces autoimmune vitiligo in parental control strains of the Smyth line chicken model for autoimmune vitiligo. Sreekumar GP, et al. **Clin Immunol Immunopathol** 1996 Nov;81(2):136-44

ANALOGS & DERIVATIVES

Expression of MAGE and BAGE genes in Japanese breast cancers. Fujie T, et al. **Ann Oncol** 1997 Apr;8(4):369-72

Activation of the retinoic acid receptor beta gene by 5-aza-2'-deoxycytidine in human DLD-1 colon carcinoma cells. Côté S, et al. **Anticancer Drugs** 1997 Jan;8(1):56-61

Pilot phase I-II study on 5-aza-2'-deoxycytidine (Decitabine) in patients with metastatic lung cancer. Momparler RL, et al. **Anticancer Drugs** 1997 Apr; 8(4):358-68

Dihydro-5-azacytidine in malignant mesothelioma. A phase II trial demonstrating activity accompanied by cardiac toxicity. Cancer and Leukemia Group B. Yogelzang NJ, et al. **Cancer** 1997 Jun 1;79(11):2237-42

Reversal of loss of imprinting in tumor cells by 5-aza-2'-deoxycytidine. Barletta JM, et al. **Cancer Res** 1997 Jan 1;57(1):48-50

Preferential induction of chromosome 1 multibranched figures and whole-arm deletions in a human pro-B cell line treated with 5-azacytidine or 5-azadeoxycytidine. Hernandez R, et al. **Cytogenet Cell Genet** 1997; 76(3-4):196-201

5-Azadeoxycytidine-induced chromatin remodeling of the inactive X-linked HPRT gene promoter occurs prior to transcription factor binding and gene reactivation. Litt MD, et al. **J Biol Chem** 1997 Jun 6;272(23):14921-6

Studies of decitabine with allogeneic progenitor cell transplantation. Giralt S, et al. **Leukemia** 1997 Mar;11 Suppl 1:S32-4

Decitabine studies in chronic and acute myelogenous leukemia. Kantarjian HM, et al. **Leukemia** 1997 Mar;11 Suppl 1:S35-6

Results of decitabine therapy in the accelerated and blastic phases of chronic myelogenous leukemia. Kantarjian HM, et al. **Leukemia** 1997 Oct;11(10):1617-20

Pharmacological approach for optimization of the dose schedule of 5-Aza-2'-deoxycytidine (Decitabine) for the therapy of leukemia. Momparler RL, et al. **Leukemia** 1997 Mar;11 Suppl 1:S1-6 (57 ref.)

Pharmacological approach for optimization of the dose schedule of 5-Aza-2'-deoxycytidine (Decitabine) for the therapy of leukemia. Momparler RL, et al. **Leukemia** 1997 Feb;11(2):175-80 (57 ref.)

Decitabine (5-Aza-2'-deoxycytidine; DAC) plus daunorubicin as a first line treatment in patients with acute myeloid leukemia: preliminary observations. Schwartsmann G, et al. **Leukemia** 1997 Mar;11 Suppl 1:S28-31

Continuous infusion of low-dose 5-Aza-2'-deoxycytidine in elderly patients with high-risk myelodysplastic syndrome. Wijermans PW, et al. **Leukemia** 1997 Mar;11 Suppl 1:S19-23

Continuous infusion of low-dose 5-Aza-2'-deoxycytidine in elderly patients with high-risk myelodysplastic syndrome. Wijermans PW, et al. **Leukemia** 1997 Jan;11(1):1-5

A randomized phase II study on the effects of 5-Aza-2'-deoxycytidine combined with either amsacrine or idarubicin in patients with relapsed acute leukemia: an EORTC Leukemia Cooperative Group phase II study (06893). Willemze R, et al. **Leukemia** 1997 Mar;11 Suppl 1:S24-7

Mutagenicity of 5-aza-2'-deoxycytidine is mediated by the mammalian DNA methyltransferase. Jackson-Grusby L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4681-5

[The validation of the possible use of monosugars and 6-azacytidine for the elimination of Mollicutes associated with HIV/AIDS from the human urogenital tract] Skrypal' IH, et al. **Mikrobiol Z** 1996 Sep-Oct;58(5):80-5 (Eng. Abstr.) **(Ukr)**

PHARMACOLOGY

Developmental exposure of male germ cells to 5-azacytidine results in abnormal preimplantation development in rats. Doerksen T, et al. **Biol Reprod** 1996 Nov;55(5):1155-62

Cytological evidence for 5-azacytidine-induced demethylation of the heterochromatic regions of human chromosomes. de Capoa A, et al. **Chromosome Res** 1996 Jun;4(4):271-6

Effects of 5-azacytidine on the centromeric region of human fibroblasts studied by CREST staining and in situ hybridization on cytokinesis-blocked cells. Cimini D, et al. **Cytogenet Cell Genet** 1996;72(2-3):219-24

Preferential induction of chromosome 1 multibranched figures and whole-arm deletions in a human pro-B cell line treated with 5-azacytidine or 5-azadeoxycytidine. Hernandez R, et al. **Cytogenet Cell Genet** 1997; 76(3-4):196-201

5-Azacytidine and BDNF enhance the maturation of neurons derived from EGF-generated neural stem cells. Schinstine M, et al. **Exp Neurol** 1997 Apr;144(2):315-25

Enhanced nucleolar parameters in Vicia faba L. induced by 5-azacytidine may be only partly attributed to DNA demethylation. Olszewska MJ, et al. **Folia Histochem Cytobiol** 1997;35(3):185-92

Hepatocytic phenotypes induced in sarcomatous cholangiocarcinoma cells treated with 5-azacytidine. Enjoji M, et al. **Hepatology** 1997 Aug;26(2):288-94

5-Azacytidine (5Az) induces apoptosis in PC12 cells: a model for 5Az-induced apoptosis in developing neuronal cells. Hossain MM, et al. **Histol Histopathol** 1997 Apr; 12(2):439-45

5-Azacytidine treatment of the fission yeast leads to cytotoxicity and cell cycle arrest. Taylor EM, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):128-37

The DNA methyltransferase inhibitor 5-azacytidine specifically alters the expression of helix-loop-helix proteins Id1, Id2 and Id3 during neuronal differentiation. Persengiev SP, et al. **Neuroreport** 1997 Jul 7;8(9-10):2091-5

Apoptotic, injury-induced cell death in cultured mouse murine motor neurons. Citron BA, et al. **Neurosci Lett** 1997 Jul 11;230(1):25-8

Somatic excision of the Ac transposable element in transgenic Arabidopsis thaliana after 5-azacytidine treatment. Scortecci KC, et al. **Plant Cell Physiol** 1997 Mar; 38(3):336-43

Isolation of a Schizosaccharomyces pombe gene which in high copy confers resistance to the nucleoside analogue 5-azacytidine. Platt GM, et al. **Yeast** 1997 Apr;13(5):463-74

[Ultroser-G and 5-azacytidine prolong the development of parthenogenetic mouse embryos] Penkov LI, et al. **Ontogenez** 1997 Mar-Apr;28(2):138-43 (Eng. Abstr.) **(Rus)**

TOXICITY

Comparison of transformation by manganese sulfate and 5-azacytidine in Rat 6 cells overexpressing the c-myc oncogene. Hsiao WL, et al. **Carcinogenesis** 1996 Dec; 17(12):2771-7

5-Azacytidine-induced 6-thioguanine resistance at the gpt locus in AS52 cells: cellular response. Spencer DL, et al. **Environ Mol Mutagen** 1996;28(2):100-6

Formation of micronuclei and inhibition of topoisomerase II in the comet assay in mammalian cells with altered DNA methylation. Stopper H, et al. **Recent Results Cancer Res** 1997;143:183-93

AZACYCLOPROPANES see **AZIRIDINES**

AZACYTIDINE see **AZACITIDINE**

AZAPERONE

METABOLISM

Identification of metabolites of azaperone in horse urine. Sams RA, et al. **J Pharm Sci** 1996 Jan;85(1):79-84

PHARMACOLOGY

Respiratory and circulatory parameters of African elephants (Loxodonta africana) anaesthetised with etorphine and azaperone. Still J, et al. **J S Afr Vet Assoc** 1996 Sep; 67(3):123-7

URINE

Identification of metabolites of azaperone in horse urine. Sams RA, et al. **J Pharm Sci** 1996 Jan;85(1):79-84

AZASERINE

Autoradiographic localization of cholecystokinin (CCK) receptor expression during the development of azaserine-induced rat pancreatic carcinoma. Tsuei BJ, et al. **Pancreas** 1996 Nov;13(4):401-6

ANALOGS & DERIVATIVES

Nitrosated peptides and polyamines as endogenous mutagens in O6-alkylguanine-DNA alkyltransferase deficient cells. Sedgwick B. **Carcinogenesis** 1997 Aug;18(8):1561-7

TOXICITY

Inhibition by amiloride of experimental carcinogenesis induced by azaserine in rat pancreas. Tatsuta M, et al. **Cancer Lett** 1996 Aug 23;106(1):23-8

AZASTEROIDS

Effect of 25-azacholestane on Argas (Argas) hermanni (Ixodoidea:Argasidae). Khalil GM, et al. **J Med Entomol** 1996 Sep;33(5):783-9

BLOOD

Low level determination of a novel 4-azasteroid and its carboxylic acid metabolite in human plasma and semen using high-performance liquid chromatography with atmospheric pressure chemical ionization tandem mass spectrometry. Constanzer ML, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):117-29

CHEMICAL SYNTHESIS

A practical route for the synthesis of 17 substituted steroidal 3-thioxamides. Grisenti P, et al. **Steroids** 1997 Jun; 62(6):504-6

CHEMISTRY

Photoaffinity labeling of rat steroid 5 alpha-reductase (isozyme-1) by a benzophenone derivative of a 4-methyl-4-azasteroid. Taylor MF, et al. **Steroids** 1996 May;61(5):323-31

PHARMACOLOGY

MK-386, an inhibitor of 5alpha-reductase type 1, reduces dihydrotestosterone concentrations in serum and sebum without affecting dihydrotestosterone concentrations in semen. Schwartz JI, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1373-7

Effect of MK-386, a novel inhibitor of type 1 5 alpha-reductase, alone and in combination with finasteride, on serum dihydrotestosterone concentrations in men. Schwartz JI, et al. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2942-7

19-nor-10-azasteroids: a novel class of inhibitors for human steroid 5alpha-reductases 1 and 2. Guarna A, et al. **J Med Chem** 1997 Mar 28;40(7):1112-29

Unique preclinical characteristics of GG745, a potent dual inhibitor of 5AR. Bramson HN, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1496-502

MK386: a potent, selective inhibitor of the human type 1 5alpha-reductase. Ellsworth K, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):377-84

FCE 28260, a new 5 alpha-reductase inhibitor: in vitro and in vivo effects. Giudici D, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):299-305

4-Methyl-3-oxo-4-aza-5alpha-androst-1-ene-17beta-N-aryl-carboxamides: an approach to combined androgen blockade [5alpha-reductase inhibition with androgen receptor binding in vitro]. Tolman RL, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5-6):303-9

TOXICITY

m-N-N-bis(2-chloroethyl)aminocinnamic acid and four new homo-aza-steroidal esters induce chromosomal abnormalities and affect protein synthesis in human lymphocytes in vitro. Psaraki K, et al.

AZASTEROIDS

Anticancer Drugs 1997 Jan;8(1):73–9

AZATHIOPRINE

ADMINISTRATION & DOSAGE

Ocular myasthenia gravis: response to long–term immunosuppressive treatment. Sommer N, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):156–62

Immunosuppression for human saphenous vein allograft bypass surgery: a prospective randomized trial. Carpenter JP, et al. **J Vasc Surg** 1997 Jul;26(1):32–42

[Azathioprine and its combination with methylprednisolone: preventive effect on chronic cerebral vasospasm] Liu B, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):774–6 (Eng. Abstr.) **(Chi)**

[Mycophenolate mofetil (MMF)/tacrolinus/single shot ATG versus azathioprine/cyclosporine (CsA)/ATG in immunosuppression after pancreas–/kidney transplantation––results of a prospective randomized study] Büsing M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:157–61 **(Ger)**

[Prevention of Crohn disease recurrence with azathioprine––for whom, how long?] Koop I, et al. **Z Gastroenterol** 1997 Jan;35(1):47–8 **(Ger)**

[Interstitial pneumonia with Sjögren's syndrome: successful treatment with steroids and an immunosuppressant] Hirata Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar; 35(3):317–21 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Allergic contact dermatitis from azathioprine. Soni BP, et al. **Am J Contact Dermat** 1996 Jun;7(2):116–7

Azathioprine and allopurinol: the price of an avoidable drug interaction. Kennedy DT, et al. **Ann Pharmacother** 1996 Sep;30(9):951–4

Rhabdomyolysis associated with azathioprine hypersensitivity syndrome [letter] Compton MR, et al. **Arch Dermatol** 1996 Oct;132(10):1254–5

Intracellular thiopurine nucleotides and azathioprine myelotoxicity in organ transplant patients. Boulieu R, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):116–8

Kaposi's sarcoma associated with immunosuppression for bullous pemphigoid. Halpern SM, et al. **Br J Dermatol** 1997 Jul;137(1):140–3

Azathioprine–induced pericarditis in a patient with ulcerative colitis. Simpson CD. **Can J Gastroenterol** 1997 Apr; 11(3):217–9

Azathioprine–induced bone marrow toxicity in four dogs. Rinkardt NE, et al. **Can Vet J** 1996 Oct;37(10):612–3

Oxidative stress in cyclosporin and azathioprine treated renal transplant patients. McGrath LT, et al. **Clin Chim Acta** 1997 Aug 8;264(1):1–12

Azathioprine–induced skin peeling syndrome. Hermanns–Lê T, et al. **Dermatology** 1997;194(2):175–6

Kaposi's sarcoma during immunosuppressive therapy for atopic dermatitis. Vandercam B, et al. **Dermatology** 1997; 194(2):180–2

Successful desensitization for azathioprine skin rash in a patient with severe Crohn's disease [letter] Lavaud F, et al. **Dig Dis Sci** 1997 Apr;42(4):823

Acute pancreatitis after azathioprine treatment for ulcerative colitis. Tragnone A, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):102–4

Effects of cirrhosis, interferon and azathioprine on adverse events in patients with chronic hepatitis C treated with ribavirin. Thevenot T, et al. **J Viral Hepat** 1997 Jul; 4(4):243–53

Azathioprine–induced lymphoma manifesting as fulminant hepatic failure. Aguilar HI, et al. **Mayo Clin Proc** 1997 Jul;72(7):643–5

Fever as sole and delayed manifestation of azathioprine hypersensitivity [letter] Köller H, et al. **Muscle Nerve** 1996 Dec;19(12):1639–40

Exacerbation of microscopic polyarteritis with azathioprine [letter] Bofinger AM, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1538–9

Azathioprine–induced hepatic veno–occlusive disease in a renal transplant recipient: histological regression following azathioprine withdrawal [letter] Kohli HS, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1671–2

Azathioprine induced macrocytosis and red cell aplasia in renal transplant patients [letter] Zazgornik J. **Nephrol Dial Transplant** 1997 Mar;12(3):628

Azathioprine–induced multisystem organ failure and cardiogenic shock. Brown G, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):815–8

Leucocytoclastic vasculitis in a patient with azathioprine hypersensitivity. Beckett CG, et al. **Postgrad Med J** 1996 Jul;72(849):437–8 (6 ref.)

Should 6–thioguanine nucleotides be monitored in heart transplant recipients given azathioprine? Schütz E, et al. **Ther Drug Monit** 1996 Jun;18(3):228–33

Rectal malacoplakia in a renal transplant recipient. Ourahma S, et al. **Transplant Proc** 1996 Oct;28(5):2824

Urate oxidase in hyperuricemic heart transplant recipients treated with azathioprine [letter; comment] Ippoliti G, et al. **Transplantation** 1997 May 15;63(9):1370–1. Comment on: Transplantation 1996 Jun 15;61(11):1661–2.

[Acute cytolytic hepatitis in azathioprine hypersensitivity (letter)] Dubost JJ, et al. **Gastroenterol Clin Biol** 1996; 20(10):912–3 **(Fre)**

[Pancreatitis caused by azathioprine: immuno–allergy? (letter)] Aissaoui M, et al. **Presse Med** 1996 Nov 9; 25(34):1650 **(Fre)**

[Generalized Mycobacterium avium–intracellulare infection due to immunosuppressive therapy of paraneoplastic dermatomyositis] Schaller M, et al. **Hautarzt** 1997 Feb; 48(2):118–21 (Eng. Abstr.) **(Ger)**

[Myasthenic crisis caused by azathioprine–induced fever] Tumani H, et al. **Nervenarzt** 1997 Apr;68(4):336–8 (Eng. Abstr.) **(Ger)**

[A case of malignant lymphoma after renal transplantation] Oyama H, et al. **No Shinkei Geka** 1997 Jul;25(7):655–60 (Eng. Abstr.) **(Jpn)**

[A post–thymomectomy case of myasthenia gravis which developed nephrotic syndrome with membranous nephropathy during azathioprine administration] Konishi T, et al. **Rinsho Shinkeigaku** 1996 Jul;36(7):864–8 (Eng. Abstr.) **(Jpn)**

[Mixed hepatitis induced by azathioprine (letter)] de la Serna Higuera C, et al. **Med Clin (Barc)** 1996 Dec 7;107(20):795 **(Spa)**

[Acute pancreatitis caused by azathioprine in patient with Crohn disease (letter)] Echarri A, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):645–6 **(Spa)**

[Chronic myeloid leukemia after renal transplantation: report of a new case and review of the bibliography (see comments)] Sanz L, et al. **Sangre (Barc)** 1996 Oct; 41(5):391–3 (Eng. Abstr.). Comment in: Sangre (Barc) 1997 Feb;42(1):85–6. **(Spa)**

ANALYSIS

Stability of acetazolamide, allopurinol, azathioprine, clonazepam, and flucytosine in extemporaneously compounded oral liquids. Allen LV Jr, et al. **Am J Health Syst Pharm** 1996 Aug 15;53(16):1944–9

BLOOD

HPLC analysis of azathioprine metabolites in red blood cells, plasma and urine in renal transplant recipients. Weller S, et al. **Int J Clin Pharmacol Ther** 1995 Dec;33(12):639–45

High–performance liquid chromatographic assay for the measurement of azathioprine in human serum samples. Binscheck T, et al. **J Chromatogr B Biomed Appl** 1996 Jan 26;675(2):287–94

Simultaneous determination of azathioprine and 6–mercaptopurine by high–performance liquid chromatography. Van Os EC, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1–2):147–54

Possibilities for therapeutic drug monitoring of azathioprine: 6–thioguanine nucleotide concentrations and thiopurine methyltransferase activity in red blood cells. Bergan S, et al. **Ther Drug Monit** 1997 Jun;19(3):318–26

[Determination of azathiopurine concentration in human serum by second derivative spectra method] Tang JL, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):371–4 (Eng. Abstr.) **(Chi)**

CONTRAINDICATIONS

Thiopurine methyltransferase levels should be measured before commencing patients on azathioprine [letter] Jackson AP, et al. **Br J Dermatol** 1997 Jan;136(1):133–4

METABOLISM

Molecular diagnosis of thiopurine S–methyltransferase deficiency: genetic basis for azathioprine and mercaptopurine intolerance [see comments] Yates CR, et al. **Ann Intern Med** 1997 Apr 15;126(8):608–14. Comment in: Ann Intern Med 1997 Apr 15;126(8):653–5.

Management of immunobullous disorders: the clinical significance of interindividual variation in azathioprine metabolism [letter; comment] Anstey A. **Clin Exp Dermatol** 1996 May;21(3):247–8. Comment on: Clin Exp Dermatol 1995 May;29(3):189–201. Comment on: Clin Exp Dermatol 1995 Jul;20(4):283–93.

Individualizing therapy with 6–mercaptopurine and 6–thioguanine related to the thiopurine methyltransferase genetic polymorphism. Lennard L, et al. **Ther Drug Monit** 1996 Aug;18(4):328–34

PHARMACOKINETICS

Azathioprine pharmacokinetics after intravenous, oral, delayed release oral and rectal foam administration. Van Os EC, et al. **Gut** 1996 Jul;39(1):63–8

A dose–ranging study of azathioprine pharmacokinetics after single–dose administration of a delayed–release oral formulation. Zins BJ, et al. **J Clin Pharmacol** 1997 Jan; 37(1):38–46

PHARMACOLOGY

In vitro immunosuppressive effects of methotrexate and azathioprine on Langerhans cells. Liu HN, et al. **Arch Dermatol Res** 1997 Jan;289(2):94–7

A cyclic GMP– and G–kinase–dependent effect of azathioprine on migration by human neutrophils. Elferink JG, et al. **Cell Mol Life Sci** 1997 Jul;53(7):593–9

Conversion from cyclosporine A to azathioprine treatment improves LDL oxidation in kidney transplant recipients. van den Dorpel MA, et al. **Kidney Int** 1997 May; 51(5):1608–12

Prednisolone and azathioprine worsen the cyclosporine A–induced oxidative phosphorylation decrease of kidney mitochondria. Simon N, et al. **Life Sci** 1997;61(6):659–66

Mycophenolate mofetil, azathioprine and cyclophosphamide enhanced efficacy combined with cyclosporine in rat cardiac transplantation. Ostraat O, et al. **Scand J Immunol** 1997 Apr;45(4):343–8

Effects of azathioprine and mizoribine on aggregation of normal and uremic platelets. Malyszko JS, et al. **Transplant Proc** 1996 Dec;28(6):3488–9

Pharmacodynamic monitoring of immunosuppressive drugs. Yatscoff RW, et al. **Transplant Proc** 1996 Dec;28(6):3013–5 (16 ref.)

[The role of zinc in forming the immunodepressive effect of imuran] Babenko HO, et al. **Fiziol Zh** 1996;42(5–6):51–7 (Eng. Abstr.) **(Ukr)**

[Effect of imuran on the activity of metalloenzymes and parameters of metal metabolism in the body] Babenko HO, et al. **Ukr Biokhim Zh** 1996 Jul–Aug;68(4):113–6 (Eng. Abstr.) **(Ukr)**

THERAPEUTIC USE

Azathioprine with cortisone in treatment of hearing loss in only hearing ear. Pyykkö I, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:83–5

Azathioprine is useful in maintaining long–term remission induced by intravenous cyclosporine in steroid–refractory severe ulcerative colitis. Fernández–Bañares F, et al. **Am J Gastroenterol** 1996 Dec;91(12):2498–9

Azathioprine in Behcet's syndrome: effects on long–term prognosis. Hamuryudan V, et al. **Arthritis Rheum** 1997 Apr; 40(4):769–74

Azathioprine in dermatology: a survey of current practice in the U.K. Tan BB, et al. **Br J Dermatol** 1997 Mar; 136(3):351–5

Immunosuppressive therapy in lupus nephritis. D'Cruz D, et al. **Clin Exp Rheumatol** 1997 May–Jun;15(3):275–82

Detailed study of changes in renal function after conversion from cyclosporine to azathioprine. Hilbrands LB, et al. **Clin Nephrol** 1996 Apr;45(4):230–5

Results of renal transplantation five to twenty–six years after surgery, using azathioprine and low–dose prednisolone as sole immunosuppression. McGeown MG, et al. **Clin Transpl** 1996;:265–70

Effects of azathioprine withdrawal in kidney recipients with stable function two years after transplant. Goldman MH, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):617–9

Soluble intercellular adhesion molecule–1 in primary biliary cirrhosis: effect of ursodeoxycholic acid and immunosuppressive therapy [see comments] Lim AG, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):155–61. Comment in: Eur J Gastroenterol Hepatol 1997 Feb;9(2):145–7.

Purine analogues and Crohn's disease: learning more about the long–term. Bernstein CN, et al. **Gastroenterology** 1996 Dec;111(6):1774–6

Smoking, azathioprine, and clinical course in Crohn's disease [letter; comment] Cottone M, et al. **Gastroenterology** 1996 Oct;111(4):1161–2. Comment on: Gastroenterology 1996 Feb;110(2):424–31.

Healing of severe recurrent ileitis with azathioprine therapy in patients with Crohn's disease. D'Haens G, et al. **Gastroenterology** 1997 May;112(5):1475–81

Azathioprine and 6–mercaptopurine and autoimmune hepatitis [letter] Yarze JC, et al. **Gastroenterology** 1996 Jun; 110(6):2027

Retrospective review of the use of azathioprine in severe atopic dermatitis. Lear JT, et al. **J Am Acad Dermatol** 1996 Oct;35(4):642–3

Immunological monitoring of azathioprine treatment in multiple sclerosis patients. Salmaggi A, et al. **J Neurol** 1997 Mar;244(3):167–74

Randomized trial of azathioprine or prednisone for initial immunosuppressive treatment of myasthenia gravis. Bromberg MB, et al. **J Neurol Sci** 1997 Sep 1;150(1):59–62

Combination treatment of rheumatoid arthritis using azathioprine and methotrexate: a 48 week controlled clinical trial. Willkens RF, et al. **J Rheumatol Suppl** 1996 Mar;44:64–8

New treatments and azathioprine in multiple sclerosis [letter] Palace J, et al. **Lancet** 1997 Jul 26;350(9073):261

Refractory IBD: medical management. Tremaine WJ. **Neth J Med** 1997 Feb;50(2):S12–4 (12 ref.)

Effect of immunosuppressive drug regimens on acute and chronic murine toxoplasmosis. Sumyuen MH, et al. **Parasitol Res** 1996;82(8):681–6

Neuropathy of metachromatic leukodystrophy: improvement with immunomodulation. Nevo Y, et al. **Pediatr Neurol** 1996 Oct;15(3):237–9

Predictors of flares and long–term outcome of systemic lupus erythematosus during combined treatment with azathioprine and low–dose prednisolone. Oelzner P, et al. **Rheumatol Int** 1996;16(4):133–9

Analysis of long–term results in kidney transplantation performed using a rejection–free protocol with cyclosporine and thoracic duct drainage. Kinukawa T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):946–7

Long–term follow–up (5 and 10 years) in recipients of HLA identical living related donor kidney grafts receiving continuous cyclosporine compared with azathioprine. MacDonald AS, et al. **Transplant Proc** 1997 Feb–Mar;

29(1–2):190
Conversion of stable renal allografts from CyA to azathioprine: a 5-year follow-up. McLean A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):285
Approaching operational tolerance in long-term pediatric liver transplant recipients receiving minimal immunosuppression. Varela-Fascinetto G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):449–51
Mizoribine as an alternative to azathioprine in pediatric renal transplantation [letter] Faraj G, et al. **Transplantation** 1996 Dec 15;62(11):1701–2
Urate oxidase in hyperuricemic heart transplant recipients treated with azathioprine [letter; comment] Ippoliti G, et al. **Transplantation** 1997 May 15;63(9):1370–1. Comment on: Transplantation 1996 Jun 15;61(11):1661–2.
[3 pregnancies in 2 women after long-term azathioprine treatment for inflammatory bowel disease (letter)] Bourgaux JF, et al. **Presse Med** 1996 Oct 12;25(30):1389–90 **(Fre)**
[Treating polymyositis: methotrexate or azathioprine?] Mader R. **Harefuah** 1997 Jan 1;132(1):56–8 (20 ref.) **(Heb)**

AZAURIDINE

ANALOGS & DERIVATIVES

Automated analytical systems for drug development studies. V. A system for enzyme kinetic studies. Zhou J, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1691–8

AZEPINES

Ripazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:157–60 (3 ref.)

ADMINISTRATION & DOSAGE

Talipexole or pramipexole combinations with chloro-APB (SKF 82958) in MPTP-induced hemiparkinsonian monkeys. Domino EF, et al. **Eur J Pharmacol** 1997 May 1;325(2–3):137–44
Effects of Y-24180, a long-acting and potent antagonist to platelet-activating factor, on immediate asthmatic response in guinea pigs. Kagoshima M, et al. **Pharmacology** 1997 Jan;54(1):1–7

ADVERSE EFFECTS

Characterization of risks associated with the use of molinate. Cochran RC, et al. **Regul Toxicol Pharmacol** 1997 Apr; 25(2):146–57

ANALYSIS

High performance liquid chromatographic determination of prozapine in pharmaceutical formulations. De Orsi D, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1635–8

ANTAGONISTS & INHIBITORS

Decrease of ciliary beat frequency by platelet activating factor: protective effect of ketotifen. Kahhak L, et al. **Inflamm Res** 1996 May;45(5):234–8

BLOOD

Determination of a HIV protease inhibitor (DMP 450) in animal and human plasma by solid-phase extraction and high-performance liquid chromatography. Grubb MF, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):303–8

CHEMICAL SYNTHESIS

Improved cyclic urea inhibitors of the HIV-1 protease: synthesis, potency, resistance profile, human pharmacokinetics and X-ray crystal structure of DMP 450. Hodge CN, et al. **Chem Biol** 1996 Apr;3(4):301–14
Non-peptide glycoprotein IIb/IIIa inhibitors. 17. Design and synthesis of orally active, long-acting non-peptide fibrinogen receptor antagonists. Askew BC, et al. **J Med Chem** 1997 Jun 6;40(12):1779–88
Synthesis and protein kinase C inhibitory activities of balanol analogs with replacement of the perhydroazepine moiety. Lai YS, et al. **J Med Chem** 1997 Jan 17;40(2):226–35

CHEMISTRY

C2-symmetrical tetrahydroxyazepanes as inhibitors of glycosidases and HIV/FIV proteases. Qian X, et al. **Bioorg Med Chem** 1996 Dec;4(12):2055–69
Determination of a PAF antagonist pharmacophore using combined Molecular Electrostatic Potential and Molecular Lipophilicity Potential. Le Solleu H, et al. **Drug Des Discov** 1994 Nov;12(2):149–67
Formobactin, a novel free radical scavenging and neuronal cell protecting substance from Nocardia sp. Murakami Y, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):839–45
Unexpected binding mode of a cyclic sulfamide HIV-1 protease inhibitor. Bäckbro K, et al. **J Med Chem** 1997 Mar 14;40(6):898–902
Synthesis and protein kinase C inhibitory activities of acyclic balanol analogs that are highly selective for protein kinase C over protein kinase A. Defauw JM, et al. **J Med Chem** 1996 Dec 20;39(26):5215–27
Pyridazinodiazepines as a high-affinity, P2–P3 peptidomimetic class of interleukin-1 beta-converting enzyme inhibitor. Dolle RE, et al. **J Med Chem** 1997 Jun 20;40(13):1941–6

METABOLISM

Investigation of the stereoselective in vitro metabolism of the chiral antiasthmatic/antiallergic drug flezelastine by high-performance liquid chromatography and capillary zone electrophoresis. Paris S, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):463–71
Characterization of [3H]apafant binding to PAF receptor on rabbit platelet membranes: a comparison of a microplate filtration system and a standard method. Balsa D, et al. **J Pharmacol Toxicol Methods** 1996 Sep;36(1):53–62

PHARMACOKINETICS

Disposition of L-738,167, a potent and long-acting fibrinogen receptor antagonist, in dogs. Dose-dependent pharmacokinetics. Prueksaritanont T, et al. **Drug Metab Dispos** 1997 Mar;25(3):355–61
Terbutaline transdermal delivery: preformulation studies and limitations of in-vitro predictive parameters. Tenjarla S, et al. **J Pharm Pharmacol** 1996 Nov;48(11):1138–42

PHARMACOLOGY

Effect of topical laurocapram (Azone) on the in vitro percutaneous permeation of sodium lauryl sulfate using human skin. Szolar-Platzer C, et al. **Acta Derm Venereol** 1996 May;76(3):182–5
Effects of newly developed excitatory amino acid antagonists on vestibular type I neurons in the cat. Furuya N, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:52–5
Modification of macrophage adhesion by ozone: role of cytokines and cell adhesion molecules. Bhalla DK, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:38–46
New arylpyrido-diazepine and -thiodiazepine derivatives are potent and highly selective HIV-1 inhibitors targeted at the reverse transcriptase. Bellarosa D, et al. **Antiviral Res** 1996 May;30(2–3):109–24
Effect of locally applied WEB 2086, a platelet-activating factor antagonist, on inflammatory skin conditions in mice. Kemény L, et al. **Arch Dermatol Res** 1996 Jul;288(8):492–4
Nocturnal psychometric assessment of the hypnotic activity of low and normal doses of brotizolam. Leonard JP, et al. **Arzneimittelforschung** 1996 May;46(5):462–7
Effect of Apafant on bronchial hyperresponsiveness and down-regulation of beta-adrenoceptors induced by endotoxin in guinea pigs. Sugimoto Y, et al. **Arzneimittelforschung** 1997 Jul;47(7):837–41
Differential behavioral response to dopamine D2 agonists by sexually naive, sexually active, and sexually inactive male rats. Giuliani D, et al. **Behav Neurosci** 1996 Aug; 110(4):802–8
Roles of inhibitors of myosin light chain kinase and tyrosine kinase on cation influx in agonist-stimulated endothelial cells. Takahashi R, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):657–62
Molecular basis of HIV-1 protease drug resistance: structural analysis of mutant proteases complexed with cyclic urea inhibitors [published erratum appears in Biochemistry 1997 May 27;36(21):6556] Ala PJ, et al. **Biochemistry** 1997 Feb 18;36(7):1573–80
C2-symmetrical tetrahydroxyazepanes as inhibitors of glycosidases and HIV/FIV proteases. Qian X, et al. **Bioorg Med Chem** 1996 Dec;4(12):2055–69
Effects of the platelet-activating factor receptor antagonist WEB 2086 on whole blood coagulation and fibrinolysis in a thromboelastography assay. Dambisya YM, et al. **Blood Coagul Fibrinolysis** 1995 Dec;6(8):733–7
Design and mechanism of action of a novel cytotoxic 1,2,3-triazene-containing heterocycle, 3,5-dimethyl-pyrido-1,2,3,5-tetrazepin-4-one (PYRZ), in the human epithelial ovarian cancer cell line NIH:OVCAR-3 in vitro. Jean-Claude BJ, et al. **Br J Cancer** 1997;76(4):467–73
Protective effect of platelet activating factor antagonists on cultured endothelial cell lysis induced by elastase or activated neutrophils. Renesto P, et al. **Br J Pharmacol** 1996 Mar;117(5):902–6
Effect of selective blockade of endothelin ETB receptors on the liver dysfunction and injury caused by endotoxaemia in the rat. Ruetten H, et al. **Br J Pharmacol** 1996 Oct; 119(3):479–86
Effects of the benzodiazepine inverse agonist RO19-4603 alone and in combination with the benzodiazepine receptor antagonists flumazenil, ZK 93426 and CGS 8216, on ethanol intake in alcohol-preferring (P) rats. June HL, et al. **Brain Res** 1996 Sep 23;734(1–2):19–34
Improved cyclic urea inhibitors of the HIV-1 protease: synthesis, potency, resistance profile, human pharmacokinetics and X-ray crystal structure of DMP 450. Hodge CN, et al. **Chem Biol** 1996 Apr;3(4):301–14
Nonpeptide glycoprotein IIb/IIIa inhibitors: 14: oral antithrombotic efficacy of L-738,167 in a conscious canine model of coronary artery electrolytic injury. Cook JJ, et al. **Circulation** 1997 Aug 5;96(3):949–58
Purification and characterization of rhesus monkey liver amido hydrolases and their roles in the metabolic polymorphism for E6123, a platelet-activating factor receptor antagonist. Kusano K, et al. **Drug Metab Dispos** 1996 Nov;24(11):1186–91
The effects of cetiedil and its congeners on levcromakalim-stimulated 86Rb efflux from smooth and skeletal muscle. Benton DC. **Eur J Pharmacol** 1996 Dec 19;317(2–3):329–33
Evidence for dopamine 'D1-like' receptor subtypes in the behavioural effects of two new selective antagonists, LY 270411 and BW 737C. Deveney AM, et al. **Eur J Pharmacol** 1996 Dec 19;317(2–3):175–81
Anti-tremor activity of talipexole produced by selective dopamine D2 receptor stimulation in cynomolgus monkeys with unilateral lesions in the ventromedial tegmentum. Kohno Y, et al. **Eur J Pharmacol** 1997 Jan 29; 319(2–3):197–205
Ameliorating effect of an endothelin ETA receptor antagonist on renal function of DOCA-salt hypertensive rats. Matsumura Y, et al. **Eur J Pharmacol** 1997 Jan 14; 319(1):65–9
ML-7 and W-7 facilitate thromboxane A2-mediated Ca2+ mobilization in rabbit platelets. Ohkubo S, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):175–83
The selective endothelin ETA receptor antagonist FR139317 inhibits neointimal thickening in the rat. Takiguchi Y, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):59–62
sigma Receptor antagonists block the development of sensitization to cocaine. Ujike H, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):123–8
5-HT3 receptor blocking properties of the antiparkinsonian agent, talipexole. Nishio H, et al. **Gen Pharmacol** 1996 Jul; 27(5):779–85
Brain alpha 1-adrenoceptor in the cardiovascular responses to BHT-920 and phenylephrine. Ricci D, et al. **Gen Pharmacol** 1996 Mar;27(2):299–304
Formobactin, a novel free radical scavenging and neuronal cell protecting substance from Nocardia sp. Murakami Y, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):839–45
Endothelin-receptor antagonist FR 139317 reduces infarct size in a rabbit model when given before, but not after, coronary artery occlusion. Burke SE, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):87–92
Platelet-activating factor is a mediator in tumor necrosis factor/galactosamine-induced lethality. Libert C, et al. **J Inflamm** 1995–96;46(3):139–43
Synthesis and protein kinase C inhibitory activities of balanol analogs with replacement of the perhydroazepine moiety. Lai YS, et al. **J Med Chem** 1997 Jan 17;40(2):226–35
Hyperglycemic damage to mitochondrial membranes during cerebral ischemia: amelioration by platelet-activating factor antagonist BN 50739. Kintner DB, et al. **J Neurochem** 1997 Sep;69(3):1219–27
Experimental electroretinographic exploration of retinal ischemia: preventive use of free radical scavengers and anti-PAF agents. Menerath JM, et al. **J Ocul Pharmacol Ther** 1997 Feb;13(1):81–8
Effect of BN 50727 on pathological findings and tissue platelet activating factor levels during ileal ischemia in newborn piglets. de Boissieu D, et al. **J Pediatr Surg** 1996 Dec;31(12):1675–9
The synthesis and some pharmacological actions of the enantiomers of the K(+)-channel blocker cetiedil. Roxburgh CJ, et al. **J Pharm Pharmacol** 1996 Aug; 48(8):851–7
Influences of 1-dodecylazacycloheptan-2-one on permeation of membranes by weak electrolytes. 1. Theoretical analysis of weak electrolyte diffusion through membranes and studies involving silicone rubber membranes. Hou SY, et al. **J Pharm Sci** 1997 Jan;86(1):85–91
The natural product hymenialdisine inhibits interleukin-8 production in U937 cells by inhibition of nuclear factor-kappaB. Breton JJ, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):459–66
Nonpeptide glycoprotein IIb/IIIa inhibitors. 15. Antithrombotic efficacy of L-738,167, a long-acting GPIIb/IIIa antagonist, correlates with inhibition of adenosine diphosphate-induced platelet aggregation but not with bleeding time prolongation. Cook JJ, et al. **J Pharmacol Exp Ther** 1997 May;281(2):677–89
Effect of Y-24180, a platelet-activating factor-receptor antagonist, on the antigen-induced airway microvascular leakage in guinea pigs. Iwahisa Y, et al. **Jpn J Pharmacol** 1996 Nov;72(3):209–15
Inhibitory effects of talipexole and pramipexole on MPTP-induced dopamine reduction in the striatum of C57BL/6N mice. Kitamura Y, et al. **Jpn J Pharmacol** 1997 May;74(1):51–7
Activation of ET(A) receptors is partially responsible for the rapid increase in haematocrit induced by bacterial lipopolysaccharide in the rat. Allcock GH, et al. **Life Sci** 1997;60(19):PL 271–6
Effect of a specific endothelin receptor A antagonist on glomerulonephritis of ddY mice with IgA nephropathy. Nakamura T, et al. **Nephron** 1996;72(3):454–60
Effects of myosin light chain kinase inhibitors on carbachol-activated nonselective cationic current in guinea-pig gastric myocytes. Kim YC, et al. **Pflugers Arch** 1997 Aug;434(4):346–53
Effects of talipexole on emesis-related changes in abdominal afferent vagal activity and ileal serotonin metabolism in rats. Minami M, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan;95(1):67–82
Effect of an endothelin-1 antagonist, BQ-485, on cerebral oxygen metabolism after complete global cerebral ischemia in dogs. Takasu A, et al. **Resuscitation** 1997 Feb;34(1):65–9
Unexpected action of platelet activating factor antagonism

AZEPINES

after fluid resuscitation from traumatic shock. Schurr MJ, et al. **Surgery** 1997 May;121(5):493–500

Population dynamics studies of wild-type and drug-resistant mutant HIV in mixed infections. Rayner MM, et al. **Virology** 1997 Sep 15;236(1):85–94

Combined effect of Web 2086 (Paf antagonist) and ketoprofen (Nsaid) on Paf-induced ex vivo platelet aggregation in bovine. Bastos da Silva M, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):65–71

Inhibition of PAF-induced platelet aggregation by WEB 2086 'in-vitro', an antagonist to the receptor for platelet-activating factor, in bovine. da Silva MB, et al. **Zentralbl Veterinarmed A** 1996 Sep;43(7):399–413

THERAPEUTIC USE

Effect of a potent platelet-activating factor antagonist, WEB-2086, on asthma. A multicenter, double-blind placebo-controlled study in Japan. Tamura G, et al. **Adv Exp Med Biol** 1996;416:371–80

Endothelin receptor A antagonism prevents hypoxia-induced intrauterine growth restriction in the rat. Thaete LG, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):73–6

Suppressive effects of Y-24180, a receptor antagonist to platelet activating factor (PAF), on antigen-induced asthmatic responses in guinea pigs. Kagoshima M, et al. **Inflamm Res** 1997 Apr;46(4):147–53

Role of endothelin in a rabbit model of acute myocardial infarction: effects of receptor antagonists. Vitola JV, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):774–83

Anti-inflammatory effect of a PAF receptor antagonist and a new molecule with antiproteinase activity in an experimental model of acute urate crystal arthritis. Miguélez R, et al. **J Lipid Mediat Cell Signal** 1996 Jan; 13(1):35–49

The platelet-activating factor receptor antagonist WEB 2170 prevents neonatal necrotizing enterocolitis in rats. Caplan MS, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar; 24(3):296–301

A study of the effect of a platelet activating factor (PAF) receptor antagonist on antigen challenge of horses with chronic obstructive pulmonary disease. Marr KA, et al. **J Vet Pharmacol Ther** 1996 Jun;19(3):233–7

[PAF receptor antagonist in asthma therapy] Sagara H, et al. **Nippon Rinsho** 1996 Nov;54(11):3056–61 (24 ref.) (Eng. Abstr.) **(Jpn)**

[The effect of Lendormin (brotizolam) on the sleep structure and subjective assessment of sleep in insomnia patients] Kovrov GV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):55–7 (Eng. Abstr.) **(Rus)**

AZESERINE see **AZASERINE**

AZETIDINECARBOXYLIC ACID

ANALOGS & DERIVATIVES

Isolation of nicotianamine as a gelatinase inhibitor. Suzuki K, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1284–5

Synthesis of a new template with a built-in adjuvant and its use in constructing peptide vaccine candidates through polyoxime chemistry. Zeng W, et al. **J Pept Sci** 1996 Jan–Feb;2(1):66–72

Activation of phospholipases C and D by the novel metabotropic glutamate receptor agonist tADA. Klein J, et al. **Neuropharmacology** 1997 Feb;36(2):261–3

Physiological and pharmacological profile of trans-azetidine-2,4-dicarboxylic acid: metabotropic glutamate receptor agonism and effects on long-term potentiation. Manahan-Vaughan D, et al. **Neuroscience** 1996 Jun;72(4):999–1008

Metabotropic glutamate receptor subtype agonists facilitate long-term potentiation within a distinct time window in the dentate gyrus in vivo. Manahan-Vaughan D, et al. **Neuroscience** 1996 Oct;74(3):723–31

TOXICITY

Fine structure of extracellular matrix and basal laminae in two types of abnormal collagen production: L-proline analog-treated otocyst cultures and disproportionate micromelia (Dmm/Dmm) mutants. Berggren D, et al. **Hear Res** 1997 May;107(1–2):125–35

AZETIDINES

CHEMISTRY

Orally active inhibitors of human leukocyte elastase. III. Identification and characterization of metabolites of L-694,458 by liquid chromatography-tandem mass spectrometry. Luffer-Atlas D, et al. **Drug Metab Dispos** 1997 Aug;25(8):940–52

METABOLISM

A possible role for acetylated intermediates in diaminopimelate and tabtoxinine-beta-lactam biosynthesis in Pseudomonas syringae pv. tabaci BR2.024. Liu L, et al. **J Bacteriol** 1997 Sep;179(18):5922–7

Characterization of dapB, a gene required by Pseudomonas syringae pv. tabaci BR2.024 for lysine and tabtoxinine-beta-lactam biosynthesis. Liu L, et al. **J Bacteriol** 1997 Jan;179(2):507–13

Metabolism of azetirelin, a new thyrotropin-releasing hormone (TRH) analogue, by intestinal microorganisms. Sasaki I, et al. **Pharm Res** 1997 Aug;14(8):1004–7

PHARMACOKINETICS

Orally active inhibitors of human leukocyte elastase. II. Disposition of L-694,458 in rats and rhesus monkeys. Vincent SH, et al. **Drug Metab Dispos** 1997 Aug; 25(8):932–9

PHARMACOLOGY

Increase in force of contraction by activation of the Na+/Ca(2+)-exchanger in human myocardium. Müller-Ehmsen J, et al. **Br J Clin Pharmacol** 1997 Apr; 43(4):399–405

Investigations of the mechanism of the positive inotropic action of BDF 9148: comparison with DPI 201-106 and the enantiomers. Raap A, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):164–73

Veratridine augments and BDF 9148 attenuates the spontaneous contractile force of the rat portal vein. Doggrell SA, et al. **J Pharm Pharmacol** 1996 Aug; 48(8):820–4

Gastric hyperemic response during vagally mediated acid secretion by TRH analog in rats. Kato S, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1351–7

Effect of a sodium-channel activator (BDF 9148) on insulin secretion in mouse pancreatic islets. Wahl MA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):417–21

A-85380 [3-(2(S)-azetidinylmethoxy) pyridine]: in vitro pharmacological properties of a novel, high affinity alpha 4 beta 2 nicotinic acetylcholine receptor ligand. Sullivan JP, et al. **Neuropharmacology** 1996 Jun;35(6):725–34

THERAPEUTIC USE

[Effect of thyrotropin-releasing hormone analogue (YM14673) on experimental brain contusion and edema in rats] Zhang JJ, et al. **Yao Hsueh Hsueh Pao** 1996; 31(4):250–3 (Eng. Abstr.) **(Chi)**

AZETINES

CHEMISTRY

[Studies of in vitro and in vivo derived 1,2-diazetine and nitronylnitroxide as donors and acceptors of nitric oxide] Khramtsov VV, et al. **Biokhimiia** 1996 Oct;61(10):1731–42 (Eng. Abstr.) **(Rus)**

AZIDES

5-iodonaphthyl-1-azide labeling of plasma membrane proteins adjacent to specific sites via energy transfer. Meiklejohn BI, et al. **Biochim Biophys Acta** 1997 Mar 13; 1324(2):320–32

Synthesis of phenylazido-derivatized substances and photochemical surface modification to immobilize functional groups. Sugawara T, et al. **J Biomed Mater Res** 1996 Oct;32(2):157–64

A comparative study of N.C.A. fluorine-18 labeling of proteins via acylation and photochemical conjugation. Wester HJ, et al. **Nucl Med Biol** 1996 Apr;23(3):365–72

ADVERSE EFFECTS

Exposures and health effects: an evaluation of workers at a sodium azide production plant. Trout D, et al. **Am J Ind Med** 1996 Sep;30(3):343–50

Occupational health data as a basis for process engineering changes: development of a safe work environment in the sodium azide industry. Rippen HE, et al. **Int Arch Occup Environ Health** 1996;68(6):459–68

Reactive airway dysfunction syndrome due to sodium azide inhalation. Weiss JS. **Int Arch Occup Environ Health** 1996; 68(6):469–71

ANTAGONISTS & INHIBITORS

Production of sodium azide inactivating substance by resistant mutants of Salmonella typhimurium and other bacteria. Banic S. **J Chemother** 1996 Dec;8(6):432–7

CHEMICAL SYNTHESIS

Synthesis of 4-cyanophenyl 4-azido-4-deoxy-1,5-dithio-beta-D-xylopyranoside. Bozó E, et al. **Carbohydr Res** 1997 Aug 7;302(3–4):149–62

Specific photoaffinity labelling of a ferripyoverdin outer membrane receptor of Pseudomonas aeruginosa. Ocaktan A, et al. **FEBS Lett** 1996 Nov 4;396(2–3):243–7

CHEMISTRY

Generation of biotin/avidin/enzyme nanostructures with maskless photolithography. Dontha N, et al. **Anal Chem** 1997 Jul 15;69(14):2619–25

Protein patterning with a photoactivatable derivative of biotin. Hengsakul M, et al. **Bioconjug Chem** 1996 Mar-Apr; 7(2):249–54

Glycosyl azides as building blocks in convergent syntheses of oligomeric lactosamine and Lewis(x) saccharides. Bröder W, et al. **Bioorg Med Chem** 1997 Jan;5(1):1–19

Insecticidal quinazoline derivatives with (trifluoromethyl)diazirinyl and azido substituents as NADH:ubiquinone oxidoreductase inhibitors and candidate photoaffinity probes. Latli B, et al. **Chem Res Toxicol** 1996 Mar;9(2):445–50

Efficient photoaffinity labeling of the rat V1a vasopressin receptor using a linear azidopeptidic antagonist. Carnazzi E, et al. **Eur J Biochem** 1997 Aug 1;247(3):906–13

Semisynthetic modification of antibiotic lincomycin. Sztaricskai F, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):941–3

[Photomodification of DNA using a catalytic two-component system of oligonucleotides bearing benzanthracene and perfluoroarylazide residues] Dobrikov MI, et al. **Dokl Akad Nauk** 1996 Dec;351(4):547–50 **(Rus)**

DIAGNOSTIC USE

Endothelin-1 significantly increased number of specific high-affinity 1,4-dihydropyridine (DHP) binding sites photolabelled on vascular smooth muscle cells with (-)-[3H]-azidopine. Dřímal J, et al. **Physiol Res** 1996; 45(1):51–8

METABOLISM

N-ethylmaleimide increases P-glycoprotein photoaffinity labeling with iodoaryl-azidoprazosin in multidrug resistant cells. Wang Y, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):357–64

Photoaffinity labelling of human poly(ADP-ribose) polymerase catalytic domain. Kim H, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):469–75

Synthesis of a radioactive azido derivative of thapsigargin and photolabeling of the sarcoplasmic reticulum ATPase. Hua S, et al. **Biochemistry** 1997 Sep 30;36(39):11865–72

[3H](azidophenyl)ureido taxoid photolabels peptide amino acids 281–304 of alpha-tubulin. Loeb C, et al. **Biochemistry** 1997 Apr 1;36(13):3820–5

Conformational changes and fusion activity of vesicular stomatitis virus glycoprotein: [125I]iodonaphthyl azide photolabeling studies in biological membranes. Pak CC, et al. **Biochemistry** 1997 Jul 22;36(29):8890–6

Structure and in vitro substrate specificity of the murine multidrug resistance-associated protein. Paul S, et al. **Biochemistry** 1996 Oct 22;35(42):13647–55

The photoactivatable inhibitor 7-azido-8-iodoketanserin labels the N terminus of the vesicular monoamine transporter from bovine chromaffin granules. Sagné C, et al. **Biochemistry** 1997 Mar 18;36(11):3345–52

The anion transporter and a 28 kDa protein are selectively photolabeled by p-azidobenzylphlorizin under conditions that alter RBC morphology, flexibility, and volume. Hoefner DM, et al. **Biochim Biophys Acta** 1997 Jul 25; 1327(2):231–41

Peroxidatic degradation of azide by catalase and irreversible enzyme inactivation. Lardinois OM, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):180–90

Glucose transport activity and ligand binding (cytochalasin B, IAPS-forskolin) of chimeric constructs of GLUT2 and GLUT4 expressed in COS-7-cells. Wandel S, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):56–62

Woodchuck p-glycoprotein found in virus-induced hepatocellular carcinomas binds anticancer drugs. Dunn SE, et al. **Cancer Lett** 1996 Dec 20;110(1–2):177–80

Relationship between the inhibition of azidopine binding to P-glycoprotein by MDR modulators and their efficiency in restoring doxorubicin intracellular accumulation. Hu YP, et al. **Cancer Lett** 1996 Dec 3;109(1–2):203–9

The binding of azide to copper-containing and cobalt-containing forms of hemocyanin from the mediterranean crab Carcinus aestuarii. Alzuet G, et al. **Eur J Biochem** 1997 Jul 15;247(2):688–94

Chronic ethanol exposure selectively increases diazepam-insensitive [3H]RO15-4513 binding in mouse cerebellum. Becker HC, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):43–6

Covalent modification of transmembrane span III of the A1 adenosine receptor with an antagonist photoaffinity probe. Kennedy AP, et al. **Mol Pharmacol** 1996 Oct;50(4):789–98

BIBW22 BS, potent multidrug resistance-reversing agent, binds directly to P-glycoprotein and accumulates in drug-resistant cells. Liu Z, et al. **Mol Pharmacol** 1996 Sep; 50(3):482–92

PHARMACOKINETICS

In vitro and in vivo evaluation of 6-azido-2',3'-dideoxy-2'-fluoro-beta-D-arabinofuranosylpurine and N6-methyl-2',3'-dideoxy-2'-fluoro-beta-D-arabinofuranosyladenine as prodrugs of the anti-HIV nucleosides 2'-F-ara-ddA and 2'-F-ara-ddI. Koudriakova T, et al. **J Med Chem** 1996 Nov 8;39(23):4676–81

Identification of domains in human recombinant GABAA receptors that are photoaffinity labelled by [3H]flunitrazepam and [3H]Ro15-4513. Davies M, et al. **Neuropharmacology** 1996;35(9–10):1199–208

PHARMACOLOGY

Thermoregulatory effects of cyanide and azide in the toad, Bufo marinus. Branco LG, et al. **Am J Physiol** 1996 Jan;

270(1 Pt 2):R169–73
Further studies on the inactivation by sodium azide of lignin peroxidase from Phanerochaete chrysosporium. Tatarko M, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):200–9
Effects of the benzodiazepine receptor inverse agonist Ro 15–4513 on the ingestion of sucrose and sodium saccharin solutions: a microstructural analysis of licking behavior. Higgs S, et al. **Behav Neurosci** 1996 Jun;110(3):559–66
Characterization of a benzodiazepine receptor site with exceptionally high affinity for Ro 15–4513 in the rat CNS. Mehta AK, et al. **Brain Res** 1995 Dec 18;704(2):289–97
Pharmacodynamic response to Ro15–4513 in ethanol intoxicated dogs. Whitmire D, et al.
Drug Metabol Drug Interact 1996;13(2):99–109
Ro 15–4513 potentiates, instead of antagonizes, ethanol–induced sleep in mice exposed to small platform stress. Pokk P, et al. **Eur J Pharmacol** 1996 Dec 12; 317(1):15–20
Development of kainate binding sites in chick cerebellum demonstrated with the photoaffinity ligand [3H]ABCPA. Voukelatou G, et al. **Int J Dev Neurosci** 1996 Oct; 14(6):779–83
Interactions of Escherichia coli UmuD with activated RecA analyzed by cross–linking UmuD monocysteine derivatives. Lee MH, et al. **J Bacteriol** 1996 Dec; 178(24):7285–94
Characterization of a chemical anoxia model in cerebellar granule neurons using sodium azide: protection by nifedipine and MK–801. Varming T, et al.
J Neurosci Res 1996 Apr 1;44(1):40–6
Covalent modification of transmembrane span III of the A1 adenosine receptor with an antagonist photoaffinity probe. Kennedy AP, et al. **Mol Pharmacol** 1996 Oct;50(4):789–98
BIBW22 BS, potent multidrug resistance–reversing agent, binds directly to P–glycoprotein and accumulates in drug–resistant cells. Liu Z, et al. **Mol Pharmacol** 1996 Sep; 50(3):482–92
Sodium azide induces mitotic recombination in Drosophila melanogaster larvae. González–César E, et al.
Mutat Res 1997 Mar 17;389(2–3):157–65
Cellular delivery of nucleoside diphosphates: a prodrug approach. Kang SH, et al. **Pharm Res** 1997 Jun; 14(6):706–12
Effects of sodium azide on motor activity, motor coordination, and learning. Lalonde R, et al.
Pharmacol Biochem Behav 1997 Jan;56(1):67–71
Ro 15–4513 alteration of pentobarbital dependence. Yutrzenka GJ, et al. **Pharmacol Biochem Behav** 1996 Nov; 55(3):379–86
Bidirectional modulation of sweet and bitter taste by chlordiazepoxide and Ro 15–4513: lack of effect with GABA drugs. Petry NM, et al. **Physiol Behav** 1997 Jan; 61(1):119–26
Effects of freezing and azide treatment of in vitro human skin on the flux and metabolism of 8–methoxypsoralen. Shaikh NA, et al. **Skin Pharmacol** 1996;9(4):274–80
Protection against cocaine and combined cocaine–ethanol toxicities in mice by imidazobenzodiazepine Ro 15–4513. Hayase T, et al. **Toxicology** 1997 Feb 28;117(2–3):171–82
The effects of physical and chemical agents on the secretion and stability of a Fusobacterium necrophorum hemolysin. Amoako KK, et al. **Vet Microbiol** 1996 Jul;51(1–2):115–24
[Two components of sodium–azide insensitive Mg2+,ATP–dependent Ca2+ transport in ureteral smooth muscle membrane structures] Prishchepa LA, et al.
Biokhimiia 1996 Jul;61(7):1250–6 (Eng. Abstr.) **(Rus)**

POISONING

Analytical findings in a suicide involving sodium azide. Marquet P, et al. **J Anal Toxicol** 1996 Mar–Apr;20(2):134–8

AZIDOTHYMIDINE see **ZIDOVUDINE**

AZINPHOSMETHYL

METABOLISM

Effect of laundering on ability of glove fabrics to decrease the penetration of organophosphate insecticides through in vitro epidermal systems. Keeble VB, et al.
J Appl Toxicol 1996 Sep–Oct;16(5):401–6

TOXICITY

Acute and chronic toxicity of azinphos–methyl to two estuarine species, Mysidopsis bahia and Cyprinodon variegatus. Morton MG, et al.
Arch Environ Contam Toxicol 1997 May;32(4):436–41

AZIRIDINES

A randomized phase II study with two schedules of the novel indoloquinone EO9 in non–small–cell lung cancer: a study of the EORTC Early Clinical Studies Group (ECSG). Pavlidis N, et al. **Ann Oncol** 1996 Jul;7(5):529–31
Chemical crosslinking subtraction (CCLS). Hampson IN, et al. **Methods Mol Biol** 1997;68:221–36

ADVERSE EFFECTS

EO9 phase II study in advanced breast, gastric, pancreatic and colorectal carcinoma by the EORTC Early Clinical Studies Group [see comments] Dirix LY, et al.
Eur J Cancer 1996 Oct;32A(11):2019–22. Comment in: Eur J Cancer 1996 Oct;32A(11):1833–4.

BLOOD

Gas chromatographic–mass spectrometric assay for N–2–chloroethylaziridine, a volatile cytotoxic metabolite of cyclophosphamide, in rat plasma. Lu H, et al.
J Chromatogr B Biomed Appl 1996 Apr 12;678(2):219–25

CHEMICAL SYNTHESIS

Synthesis of the photoaffinity label [1'–14C]–6C–(azimethyl)octylglucoside and its reaction with isolated renal brush border membranes. Kipp H, et al. **Anal Biochem** 1997 Feb 1;245(1):61–8

CHEMISTRY

The autoxidation of the reduced forms of EO9. Butler J, et al. **Free Radic Res** 1996 Aug;25(2):141–8
Induction of p21 mediated by reactive oxygen species formed during the metabolism of aziridinylbenzoquinones by HCT116 cells. Qiu X, et al. **J Biol Chem** 1996 Dec 13; 271(50):31915–21
Potentiometric and spectroscopic study of copper (II) ion binding by 1,6–anhydro–derivatives of aminosugars. Jezowska–Bojczuk M, et al. **J Inorg Biochem** 1996 Feb 15;61(3):213–9
Covalent HLA–B27/peptide complex induced by specific recognition of an aziridine mimic of arginine. Weiss GA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10945–8

ISOLATION & PURIFICATION

Purity determinations in the bulk drug of the novel indoloquinone antitumor agent EO9. Jonkman–de Vries JD, et al. **Invest New Drugs** 1996;14(2):181–91

METABOLISM

Bioreductive activation of a series of analogues of 5–aziridinyl–3–hydroxymethyl–1–methyl–2–[1H–indole–4, 7–dione] prop–beta–en–alpha–ol (EO9) by human DT–diaphorase. Phillips RM. **Biochem Pharmacol** 1996 Dec 13;52(11):1711–8
Nitroreductase activation of CB1954–an alternative 'suicide' gene system [editorial; comment] Bailey SM, et al.
Gene Ther 1997 Feb;4(2):80–1. Comment on: Gene Ther 1997 Feb;4(2):93–100. Comment on: Gene Ther 1997 Feb;4(2):101–10.
The bystander effect of the nitroreductase/CB1954 enzyme/prodrug system is due to a cell–permeable metabolite. Bridgewater JA, et al. **Hum Gene Ther** 1997 Apr 10;8(6):709–17

PHARMACOKINETICS

Phase I pharmacokinetics and limited sampling strategies for the bioreductive alkylating drug EO9. EORTC Early Clinical Trials Group. McLeod HL, et al.
Eur J Cancer 1996 Aug;32A(9):1518–22

PHARMACOLOGY

Comet assay studies on the activation of two diaziridinylbenzoquinones in K562 cells [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1946] Ward TH, et al. **Biochem Pharmacol** 1997 Apr 25; 53(8):1115–21
Activity of antibodies against Salmonella dublin, Toxoplasma gondii, or Actinobacillus pleuropneumoniae in sera after treatment with electron beam irradiation or binary ethylenimine. Kyvsgaard NC, et al.
Clin Diagn Lab Immunol 1996 Nov;3(6):628–34
Development, pharmacology, role of DT–diaphorase and prospects of the indoloquinone EO9. Smitskamp–Wilms E, et al. **Gen Pharmacol** 1996 Apr;27(3):421–9 (88 ref.)
Investigation of alternative prodrugs for use with E. coli nitroreductase in 'suicide gene' approaches to cancer therapy. Bailey SM, et al. **Gene Ther** 1996 Dec; 3(12):1143–50
Selective cell ablation in transgenic mice expression E. coli nitroreductase [see comments] Clark AJ, et al.
Gene Ther 1997 Feb;4(2):101–10. Comment in: Gene Ther 1997 Feb;4(2):80–1.
The expression of bacterial nitroreductase in transgenic mice results in specific cell killing by the prodrug CB1954 [see comments] Drabek D, et al. **Gene Ther** 1997 Feb; 4(2):93–100. Comment in: Gene Ther 1997 Feb;4(2):80–1.
Cross–linking and sequence specific alkylation of DNA by aziridinyl quinones. 2. Structure requirements for sequence selectivity. Hargreaves RH, et al. **J Med Chem** 1997 Jan 31;40(3):357–61
Chemistry of the pyrrolo[1,2–alpha]benzimidazole antitumor agents: influence of the 7–substituent on the ability to alkylate DNA and inhibit topoisomerase II. Zhou R, et al. **J Med Chem** 1996 Oct 11;39(21):4321–31
Age–dependent effect of AF64A on cholinergic activity in the septo–hippocampal pathway of the rat brain: decreased responsiveness in aged rats. El Tamer A, et al.
Neurosci Lett 1996 Jan 19;203(2):123–6
Brain–derived neurotrophic factor induced stimulation of septal choline acetyltransferase activity in ethylcholine mustard aziridinium treated rats. Willson CA, et al.
Neurosci Lett 1997 Jul 4;229(3):149–52
Induction of apoptosis in vitro and in vivo by the cholinergic neurotoxin ethylcholine aziridinium. Rinner WA, et al.
Neuroscience 1997 Jul;79(2):535–42

THERAPEUTIC USE

Sensitization of colorectal and pancreatic cancer cell lines to the prodrug 5–(aziridin–1–yl)–2,4–dinitrobenzamide (CB1954) by retroviral transduction and expression of the E. coli nitroreductase gene. Green NK, et al.
Cancer Gene Ther 1997 Jul–Aug;4(4):229–38
[A system of individual immunotherapy with leakadin in the combined therapy of acoustic neurinomas] Starchenko AA, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Oct–Dec; (4):15–8 (Eng. Abstr.) **(Rus)**

TOXICITY

Relationship between acute toxicity of (bis)aziridinylbenzoquinones and cellular pyridine nucleotides. Morgan WA, et al. **Arch Toxicol** 1997; 71(9):582–7
Oxidative stress in the brain following intraventricular administration of ethylcholine aziridinium (AF64A). Gulyaeva NV, et al. **Brain Res** 1996 Jul 8;726(1–2):174–80
Moderate lesion of the rat cholinergic septohippocampal pathway increases hippocampal nerve growth factor synthesis: evidence for long–term compensatory changes? Hellweg R, et al. **Brain Res Mol Brain Res** 1997 Apr; 45(1):177–81
1H NMR spectroscopic and histopathological studies on propyleneimine–induced renal papillary necrosis in the rat and the multimammate desert mouse (Mastomys natalensis). Holmes E, et al.
Comp Biochem Physiol C Pharmacol Toxicol Endocrinol 1997 Feb;116(2):125–34
The response of germ cells to ethylene oxide, propylene oxide, propylene imine and methyl methanesulfonate is a matter of cell stage–related DNA repair. Vogel EW, et al. **Environ Mol Mutagen** 1997;29(2):124–35
Effects of chronic infusion of nerve growth factor (NGF) in AF64A–lesioned rats. Fernández CI, et al.
Mol Chem Neuropathol 1996 May–Aug;28(1–3):175–9
[Cell cycle during survival of liver cells after potentially lethal damage of genome induced by dipin] Uryvaeva IV, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):353–5 **(Rus)**

AZIRINES

An amphipathic alpha–helix is the principle membrane–embedded region of CTP:phosphocholine cytidylyltransferase. Identification of the 3–(trifluoromethyl)–3–(m–[125I]iodophenyl) diazirine photolabeled domain. Johnson JE, et al.
Biochim Biophys Acta 1997 Mar 13;1324(2):273–84

CHEMICAL SYNTHESIS

Synthesis and evaluation of oligodeoxyribonucleotides containing an aryl(trifluoromethyl)diazirine moiety as the cross–linking probe: photoaffinity labeling of mammalian DNA polymerase beta. Yamaguchi T, et al.
Nucleic Acids Res 1997 Jun 15;25(12):2352–8

CHEMISTRY

Insecticidal quinazoline derivatives with (trifluoromethyl)diazirinyl and azido substituents as NADH:ubiquinone oxidoreductase inhibitors and candidate photoaffinity probes. Latli B, et al. **Chem Res Toxicol** 1996 Mar;9(2):445–50
Synthesis and characterization of a photoactivatable analog of corticotropin–releasing factor for specific receptor labeling. Rühmann A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10609–13

METABOLISM

A photolabile 2',3'–dideoxyuridylate analog bearing an aryl(trifluoromethyl)diazirine moiety: photoaffinity labeling of HIV–1 reverse transcriptase. Yamaguchi T, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3364–9

AZITHROMYCIN

Properties of azithromycin that enhance the potential for compliance in children with upper respiratory tract infections. Powers JL. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S30–7
A clinical isolate of Neisseria gonorrhoeae with in vitro resistance to erythromycin and decreased susceptibility to azithromycin. Ehret JM, et al. **Sex Transm Dis** 1996 Jul–Aug;23(4):270–2

ADMINISTRATION & DOSAGE

Toleration of intravenous azithromycin. Luke DR, et al.
Ann Pharmacother 1997 Sep;31(9):965–9
Comparative study of once–weekly azithromycin and once–daily amoxicillin treatments in prevention of recurrent acute otitis media in children. Marchisio P, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2732–6
Cryptosporidiosis after CD34–selected autologous peripheral blood stem cell transplantation (PBSCT). Treatment with paromomycin, azithromycin and recombinant human interleukin–2. Nachbaur D, et al.

Bone Marrow Transplant 1997 Jun;19(12):1261–3

Multicenter randomized study of two once daily regimens in the initial management of community-acquired respiratory tract infections in 163 children: azithromycin versus ceftibuten. Galova K, et al. **Chemotherapy** 1996 May–Jun;42(3):231–4

Elevated Chlamydia pneumoniae antibodies, cardiovascular events, and azithromycin in male survivors of myocardial infarction. Gupta S, et al. **Circulation** 1997 Jul 15; 96(2):404–7

A comparison of oral azithromycin with topical oxytetracycline/polymyxin for the treatment of trachoma in children. Dawson CR, et al. **Clin Infect Dis** 1997 Mar; 24(3):363–8

Azithromycin in gonorrhoea [letter] Handsfield HH. **Int J STD AIDS** 1997 Jul;8(7):472–3

Azithromycin in non-gonococcal urethritis. Charoenwatanachokchai A, et al. **J Med Assoc Thai** 1997 Jul;80(7):440–5

Azithromycin: only once a day. Burke SM. **MCN Am J Matern Child Nurs** 1996 May–Jun;21(3):162

Efficacy of three-day azithromycin vs. ten-day penicillin V in the treatment of streptococcal pharyngitis [letter; comment] Pacifico L, et al. **Pediatr Infect Dis J** 1997 May; 16(5):542. Comment on: Pediatr Infect Dis J 1996 Sep;15(9):791–5.

Treatment of gingival hyperplasia secondary to cyclosporine by the new macrolide azithromycin. Puig JM, et al. **Transplant Proc** 1997 Aug;29(5):2379–80

ADVERSE EFFECTS

Azithromycin-induced intrahepatic cholestasis. Longo G, et al. **Am J Med** 1997 Feb;102(2):217–8

Increased hypoprothrombinemic effect of warfarin possibly induced by azithromycin [letter] Lane G. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):884–5

Toleration of intravenous azithromycin. Luke DR, et al. **Ann Pharmacother** 1997 Sep;31(9):965–9

Safety, toleration, and pharmacokinetics of intravenous azithromycin. Luke DR, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2577–81

Relationship of adverse events to serum drug levels in patients receiving high-dose azithromycin for mycobacterial lung disease. Brown BA, et al. **Clin Infect Dis** 1997 May;24(5):958–64 (25 ref.)

Drug interactions with azithromycin and the macrolides: an overview. Nahata M. **J Antimicrob Chemother** 1996 Jun; 37 Suppl C:133–42 (43 ref.)

Paediatric safety of azithromycin: worldwide experience. Treadway G, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:143–9

Hypothermia from azithromycin [letter] [see comments] Kavukçu S, et al. **J Toxicol Clin Toxicol** 1997;35(2):225–6 . Comment in: J Toxicol Clin Toxicol 1997;35(5):459.

Hypothermia from azithromycin? [letter; comment] Walson PD. **J Toxicol Clin Toxicol** 1997;35(5):459. Comment on: J Toxicol Clin Toxicol 1997;35(2):225–6.

Severe neutropenia and prophylactic doses of rifabutin [letter; comment] Tansey MJ, et al. **Lancet** 1996 Dec 7; 348(9041):1592–3. Comment on: Lancet 1996 Sep 7;348(9028):685.

Interaction between azithromycin and cyclosporin? [letter; comment] Gómez E, et al. **Nephron** 1996;73(4):724. Comment on: Nephron 1995;70(1):130.

BLOOD

Uptake of azithromycin by various cells and its intracellular activity under in vivo conditions. Wildfeuer A, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):75–9

Relationship of adverse events to serum drug levels in patients receiving high-dose azithromycin for mycobacterial lung disease. Brown BA, et al. **Clin Infect Dis** 1997 May;24(5):958–64 (25 ref.)

CHEMISTRY

Interaction of the macrolide azithromycin with phospholipids. II. Biophysical and computer-aided conformational studies. Montenez JP, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):215–27

ECONOMICS

Economic analysis of antibiotic regimens used in the treatment pharyngitis: a prospective comparison of azithromycin versus roxithromycin. Carbon C, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:151–61

Azithromycin as a cost-effective treatment for nongonococcal urethritis in men [letter; comment] Carlin EM, et al. **Sex Transm Dis** 1997 Jan;24(1):57. Comment on: Sex Transm Dis 1995 Sep–Oct;22(5):274–80.

METABOLISM

Requirements for intracellular accumulation and release of clarithromycin and azithromycin by human phagocytes. Fietta A, et al. **J Chemother** 1997 Feb;9(1):23–31

Determination of the alpha1-acid glycoprotein binding of azithromycin in vitro by equilibrium dialysis. Gastearena I, et al. **J Chemother** 1995 Nov;7 Suppl 4:26–8

[Penetration of azithromycin into human neutrophils: effect of hydrogen peroxide production] Rodríguez-Bano J, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):196–9 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Single-dose intrapulmonary pharmacokinetics of azithromycin, clarithromycin, ciprofloxacin, and cefuroxime in volunteer subjects. Conte JE Jr, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1617–22

Distribution of azithromycin into brain tissue, cerebrospinal fluid, and aqueous humor of the eye. Jaruratanasirikul S, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):825–6

Safety, toleration, and pharmacokinetics of intravenous azithromycin. Luke DR, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2577–81

Intrapulmonary pharmacokinetics of azithromycin in healthy volunteers given five oral doses. Olsen KM, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2582–5

Comparison of bronchopulmonary pharmacokinetics of clarithromycin and azithromycin. Patel KB, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2375–9

Intrapulmonary steady-state concentrations of clarithromycin and azithromycin in healthy adult volunteers. Rodvold KA, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1399–402

Uptake of azithromycin by various cells and its intracellular activity under in vivo conditions. Wildfeuer A, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):75–9

A linear model for the pharmacokinetics of azithromycin in healthy volunteers. Ripa S, et al. **Chemotherapy** 1996 Nov–Dec;42(6):402–9

Disposition of oral azithromycin in humans. Luke DR, et al. **Clin Pharmacol Ther** 1997 Jun;61(6):641–8

Re: A. Bauernfeind et al.: Comparative pharmacodynamics of clarithromycin and azithromycin against respiratory pathogens (Infection 23 [1995] 316–321) [letter; comment] Adam D, et al. **Infection** 1996 May–Jun;24(3):270–1. Comment on: Infection 1995 Sep–Oct;23(5):316–21.

Depression of the N-demethylation of erythromycin, azithromycin, clarithromycin and clindamycin in murine Toxoplasma infection. Berg-Candolfi M, et al. **Int J Parasitol** 1996 Nov;26(11):1321–3

The absence of an effect of food on the bioavailability of azithromycin administered as tablets, sachet or suspension. Foulds G, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:37–44

Correlation of increased azithromycin concentrations with phagocyte infiltration into sites of localized infection. Girard AE, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:9–19

Influence of immunosuppression on the pharmacokinetics and pharmacodynamics of azithromycin in infected mouse tissues. Girard D, et al. **J Antimicrob Chemother** 1996 Jun; 37 Suppl C:21–35

Azithromycin uptake by tissue cultured epithelial cells [letter] Pascual A, et al. **J Antimicrob Chemother** 1997 Feb; 39(2):293–5

Delivery of azithromycin to Chlamydia trachomatis-infected polarized human endometrial epithelial cells by polymorphonuclear leucocytes. Paul TR, et al. **J Antimicrob Chemother** 1997 May;39(5):623–30

Penetration of azithromycin into middle ear effusions in acute and secretory otitis media in children. Pukander J, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:53–61

Concentrations of azithromycin in tonsilar and/or adenoid tissue from paediatric patients. Vaudaux BP, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:45–51

Pharmacokinetics and pharmacodynamics of newer macrolides. Nightingale CH. **Pediatr Infect Dis J** 1997 Apr; 16(4):438–43 (29 ref.)

[Bacteriological, pharmacokinetic and clinical evaluation of azithromycin in the pediatric field] Akita H, et al. **Jpn J Antibiot** 1996 Oct;49(10):899–916 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in pediatric infections] Ishida Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):1030–8 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in the pediatric field] Kitamura K, et al. **Jpn J Antibiot** 1997 Feb;50(2):206–14 (Eng. Abstr.) **(Jpn)**

[Clinical study of a macrolide antibiotic, azithromycin, in pediatric patients] Kobayashi Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):1004–12 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical studies on azithromycin in children] Ohtsuka Y, et al. **Jpn J Antibiot** 1996 Nov; 49(11):1039–48 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluations of azithromycin in the pediatric field] Okada T, et al. **Jpn J Antibiot** 1996 Nov;49(11):1024–9 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in pediatrics] Okumura A, et al. **Jpn J Antibiot** 1996 Nov; 49(11):994–1003 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic, bacteriological and clinical studies on azithromycin in children] Tajima T, et al. **Jpn J Antibiot** 1997 Feb;50(2):200–5 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin using fine granules or capsules in the pediatric patients] Toyonaga Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):981–93 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic profile of azithromycin. Role in the treatment of genital Chlamydia infections] Chulig I. **Antibiot Khimioter** 1996 Feb;41(2):14–5 **(Rus)**

PHARMACOLOGY

In vitro activities of azithromycin and doxycycline against 15 isolates of Chlamydia pneumoniae. Gnarpe J, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1843–5

In vitro activities of azithromycin, clarithromycin, and other antibiotics against Chlamydia pneumoniae. Kuo CC, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2669–70

Rapid detection of mutations associated with macrolide resistance in Mycobacterium avium complex [published erratum appears in Antimicrob Agents Chemother 1996 Oct;40(10):2442] Nash KA, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1748–50

Effect of single oral dose of azithromycin, clarithromycin, and roxithromycin on polymorphonuclear leukocyte function assessed ex vivo by flow cytometry. Wenisch C, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2039–42

Intracellular activity of azithromycin against Mycobacterium avium complex in human macrophages. Wildfeuer A, et al. **Arzneimittelforschung** 1997 Jul;47(7):866–8

Influence of the antibiotics erythromycin and azithromycin on the pharmacokinetics and pharmacodynamics of midazolam. Zimmermann T, et al. **Arzneimittelforschung** 1996 Feb;46(2):213–7

The influence of azithromycin on the biofilm formation of Pseudomonas aeruginosa in vitro. Ichimiya T, et al. **Chemotherapy** 1996 May–Jun;42(3):186–91

Effect of subinhibitory concentrations of ceftazidime, ciprofloxacin, and azithromycin on the hemagglutination and adherence of uropathogenic Escherichia coli strains. Vranes J. **Chemotherapy** 1996 May–Jun;42(3):177–85

Comparison of Etest and agar dilution for testing the activity of three macrolides against Bordetella parapertussis. Hoppe JE, et al. **Diagn Microbiol Infect Dis** 1997 May;28(1):49–51

In vitro activity of macrolides against intracellular Legionella pneumophila. Segreti J, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):123–6

Synergistic effect of azithromycin on the phagocytic killing of Staphylococcus aureus by human polymorphonuclear leukocytes. Herrera-Insúa I, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):13–6

Interaction of the macrolide azithromycin with phospholipids. I. Inhibition of lysosomal phospholipase A1 activity. Van Bambeke F, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):203–14

Hyperactivity of cathepsin B and other lysosomal enzymes in fibroblasts exposed to azithromycin, a dicationic macrolide antibiotic with exceptional tissue accumulation. Gerbaux C, et al. **FEBS Lett** 1996 Oct 7;394(3):307–10

Kill kinetics of Borrelia burgdorferi and bacterial findings in relation to the treatment of Lyme borreliosis [published erratum appears in Infection 1996 Mar–Apr;24(2):169] Preac Mursic V, et al. **Infection** 1996 Jan–Feb;24(1):9–16

Azithromycin and erythromycin resistant Neisseria gonorrhoeae following treatment with azithromycin. Young H, et al. **Int J STD AIDS** 1997 May;8(5):299–302

Effect of minor pH changes on the in-vitro activity of azithromycin and clarithromycin [letter] Fuchs PC, et al. **J Antimicrob Chemother** 1997 Jan;39(1):109–10

Correlation of increased azithromycin concentrations with phagocyte infiltration into sites of localized infection. Girard AE, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:9–19

Influence of immunosuppression on the pharmacokinetics and pharmacodynamics of azithromycin in infected mouse tissues. Girard D, et al. **J Antimicrob Chemother** 1996 Jun; 37 Suppl C:21–35

In-vitro activity of azithromycin in against intracellular Helicobacter pylori. Hulten K, et al. **J Antimicrob Chemother** 1996 Mar;37(3):483–9

The in-vitro anti-rickettsial activity of macrolides. Keysary A, et al. **J Antimicrob Chemother** 1996 Oct;38(4):727–31

Effect of combination therapy of rifampicin and azithromycin on TNF levels during a rat model of chronic osteomyelitis. Littlewood-Evans AJ, et al. **J Antimicrob Chemother** 1997 Apr;39(4):493–8

Azithromycin--review of key chemical, pharmacokinetic and microbiological features. Lode H, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:1–8 (41 ref.)

The activity of azithromycin on the infectivity of Chlamydia trachomatis in human amniotic cells. Patton DL, et al. **J Antimicrob Chemother** 1995 Dec;36(6):951–9

Interaction of macrolides with alpha dornase during DNA hydrolysis. Ripoll L, et al. **J Antimicrob Chemother** 1996 May;37(5):987–91

Azithromycin induces in vitro a time-dependent increase in the intracellular killing of Staphylococcus aureus by human polymorphonuclear leucocytes without damaging phagocytes. Silvestri M, et al. **J Antimicrob Chemother** 1995 Dec;36(6):941–50

Comparative activity of azithromycin against clinical isolates of mycobacteria. Watt B, et al. **J Antimicrob Chemother** 1996 Sep;38(3):539–42

Significance of environmental conditions (pH and serum) on the in vitro potency of azithromycin against Brucella melitensis. Domingo S, et al. **J Chemother** 1995 Nov;7 Suppl 4:29–31

Variability in susceptibilities of Haemophilus influenzae to clarithromycin and azithromycin due to medium pH. Nilius AM, et al. **J Clin Microbiol** 1997 Jun;35(6):1311–5

Azithromycin in the treatment of periodontal disease. Effect on microbial flora. Sefton AM, et al. **J Clin Periodontol** 1996 Nov;23(11):998–1003

Microbiologic activity of the newer macrolide antibiotics. McCracken GH Jr. **Pediatr Infect Dis J** 1997 Apr; 16(4):432–7 (21 ref.)

Incidence of antibiotic–resistant Streptococcus pneumoniae and beta–lactamase–positive Haemophilus influenzae in clinical isolates from patients with otitis media. McLinn S, et al. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S3–9

Comparison of E–test with agar dilution methods in testing susceptibility of N. gonorrhoeae to azithromycin. Yasin RM, et al. **Sex Transm Dis** 1997 May;24(5):257–60

[Bacteriological, pharmacokinetic and clinical evaluation of azithromycin in the pediatric field] Akita H, et al. **Jpn J Antibiot** 1996 Oct;49(10):899–916 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

1–day azithromycin was as effective as 7–day doxycycline for nongonococcal urethritis syndrome in men [letter] Wendel TD. **ACP J Club** 1996 Nov–Dec;125(3):82

Azithromycin for relapsing cerebral toxoplasmosis in AIDS [letter] Nasta P, et al. **AIDS** 1997 Jul 15;11(9):1188

Helicobacter pylori eradication using one–week low–dose lansoprazole plus amoxycillin and either clarithromycin or azithromycin. Cammarota G, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):997–1000

Treating acute bronchitis with azithromycin [letter] Mosby JA. **Am Fam Physician** 1997 Feb 1;55(2):444, 447–8

Three new studies expand understanding of MAC therapy [news] **Am J Health Syst Pharm** 1996 Oct 15;53(20):2376, 2380

Treatment of shigellosis: V. Comparison of azithromycin and ciprofloxacin. A double–blind, randomized, controlled trial. Khan WA, et al. **Ann Intern Med** 1997 May 1; 126(9):697–703

Lovastatin–induced rhabdomyolysis possibly associated with clarithromycin and azithromycin. Grunden JW, et al. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):859–63

Prospective open randomized study comparing efficacies and safeties of a 3–day course of azithromycin and a 10–day course of erythromycin in children with community–acquired acute lower respiratory tract infections. Roord JJ, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2765–8

Efficacy of azithromycin or clarithromycin for prophylaxis of viridans group streptococcus experimental endocarditis. Rouse MS, et al. **Antimicrob Agents Chemother** 1997 Aug; 41(8):1673–6

Chronic sinusitis refractory to standard management in patients with humoral immunodeficiencies. Buehring I, et al. **Clin Exp Immunol** 1997 Sep;109(3):468–72

Azithromycin activity against Mycobacterium avium complex lung disease in patients who were not infected with human immunodeficiency virus. Griffith DE, et al. **Clin Infect Dis** 1996 Nov;23(5):983–9

A prospective study of the impact of community–based azithromycin treatment of trachoma on carriage and resistance of Streptococcus pneumoniae. Leach AJ, et al. **Clin Infect Dis** 1997 Mar;24(3):356–62

Erythromycin, clarithromycin, and azithromycin: are the differences real? Amsden GW. **Clin Ther** 1996 Jan–Feb; 18(1):56–72; discussion 55 (63 ref.)

Azithromycin. A review of its pharmacological properties and use as 3–day therapy in respiratory tract infections. Dunn CJ, et al. **Drugs** 1996 Mar;51(3):483–505 (120 ref.)

Efficacy and safety of azithromycin versus phenoxymethylpenicillin in the treatment of acute maxillary sinusitis. Hayle R, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):849–53

Azithromycin versus penicillin V in the treatment of paediatric patients with acute streptococcal pharyngitis/tonsillitis. Paediatric Azithromycin Study Group. O'Doherty B. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):718–24

Short–term low–dose triple therapy with azithromycin, metronidazole and lansoprazole appears highly effective for the eradication of Helicobacter pylori. Caselli M, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):45–8

Evaluation of safety and efficacy of azithromycin in lower respiratory tract infections (LRTI) [published erratum appears in Indian J Med Sci 1996 Oct;50(10):367] Adhikari P, et al. **Indian J Med Sci** 1996 Sep;50(9):313–7

Azithromycin and doxycycline for treatment of Borrelia culture–positive erythema migrans. Strle F, et al. **Infection** 1996 Jan–Feb;24(1):64–8

Azithromycin in the treatment of pneumonias caused by Chlamydia spp: a retrospective study. Kuzman I, et al. **Int J Clin Pharmacol Res** 1996;16(4–5):103–7

Azithromycin for the treatment of acne [letter] Fernandez–Obregon AC. **Int J Dermatol** 1997 Mar; 36(3):239–40

Donovanosis: treatment with azithromycin. Arévalo Morles C, et al. **Int J STD AIDS** 1997 Jan;8(1):54–6

Pilot studies of azithromycin, letrazuril and paromomycin in the treatment of cryptosporidiosis. Blanshard C, et al. **Int J STD AIDS** 1997 Feb;8(2):124–9

Azithromycin as the first–line treatment of non–gonococcal urethritis (NGU): a study of follow–up rates, contact attendance and patients' treatment preference. Carlin EM, et al. **Int J STD AIDS** 1996 May–Jun;7(3):185–9

Donovanosis: sequelae of severe disease and successful azithromycin treatment. Mein J, et al. **Int J STD AIDS** 1996 Oct;7(6):448–51

Economic analysis of antibiotic regimens used in the treatment pharyngitis: a prospective comparison of azithromycin versus roxithromycin. Carbon C, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:151–61

Once–daily, 3–day azithromycin versus a three–times–daily, 10–day course of co–amoxiclav in the treatment of adults with lower respiratory tract infections: results of a randomized, double–blind comparative study. Gris P. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:93–101

Efficacy, safety and tolerability of azithromycin versus roxithromycin in the treatment of acute lower respiratory tract infections. Laurent K. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:115–24

A comparative study of the efficacy, safety and tolerability of azithromycin and cefaclor in the treatment of children with acute skin and/or soft tissue infections. Montero L. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:125–31

An open comparative study of azithromycin and roxithromycin in the treatment of acute upper respiratory tract infections. Müller O. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:83–92

An open comparative study of azithromycin versus cefaclor in the treatment of patients with upper respiratory tract infections. O'Doherty B. **J Antimicrob Chemother** 1996 Jun; 37 Suppl C:71–81

An open study to compare azithromycin with cefaclor in the treatment of children with acute otitis media. Rodriguez AF. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:63–9

What is the best azithromycin–based therapy for Helicobacter pylori infection? [letter; comment] Tursi A, et al. **J Antimicrob Chemother** 1997 Jan;39(1):111. Comment on: J Antimicrob Chemother 1996 Apr;37(4):849–50.

A randomized, comparative study to evaluate the efficacy and tolerability of a 3–day course of azithromycin versus a 10–day course of co–amoxiclav as treatment of adult patients with lower respiratory tract infections. Zachariah J. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:103–13

Inadequate azithromycin activity against Brucella melitensis in mice with acute or chronic infections. Domingo S, et al. **J Chemother** 1996 Feb;8(1):55–8

Azithromycin: 3–day versus 5–day course in the treatment of respiratory tract infections in children. Croatian Azithromycin Study Group. Ficnar B, et al. **J Chemother** 1997 Feb;9(1):38–43

Inhibition of intracellular growth of Staphylococcus aureus by exposure of infected human monocytes to clarithromycin and azithromycin. Fietta A, et al. **J Chemother** 1997 Feb;9(1):17–22

Comparative trial of azithromycin and ciprofloxacin in the treatment of gonorrhea. Gruber F, et al. **J Chemother** 1997 Aug;9(4):263–6

Response to oral and intravenous azithromycin in a patient with toxoplasma encephalitis and AIDS. Wiselka MJ, et al. **J Infect** 1996 Nov;33(3):227–9

Comparison of azithromycin and co–amoxiclav in the treatment of acute tracheobronchitis and acute infectious exacerbations of chronic bronchitis in adults. Azithromycin Study Group. Biebuyck XA. **J Int Med Res** 1996 Sep–Oct; 24(5):407–18

Azithromycin compared with clarithromycin in the treatment of adult patients with acute purulent tracheobronchitis: a cost of illness study. Sternon J, et al. **J Int Med Res** 1995 Nov–Dec;23(6):413–22

Azithromycin in the treatment of chlamydial cervicitis and eradication of Ureaplasma urealyticum in female lower genital tract. Charoenwatanachokchai A, et al. **J Med Assoc Thai** 1997 Jun;80(6):343–7

Efficacy of short–term treatment of pertussis with clarithromycin and azithromycin. Aoyama T, et al. **J Pediatr** 1996 Nov;129(5):761–4

Cryptosporidium in patients infected with human immunodeficiency virus: azithromycin revisited [letter; comment] Ramos JT, et al. **J Pediatr** 1997 Jun; 130(6):1009–10. Comment on: J Pediatr 1996 Aug;129(2):297–300.

Rhodococcus equi in CAPD–associated peritonitis treated with azithromycin [see comments] Hoque S, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2340–1. Comment in: Nephrol Dial Transplant 1997 May;12(5):1080–1.

A multicenter, open label trial of azithromycin vs. amoxicillin/ clavulanate for the management of acute otitis media in children. Aronovitz G. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S15–9

Causative pathogens, antibiotic resistance and therapeutic considerations in acute otitis media. Block SL. **Pediatr Infect Dis J** 1997 Apr;16(4):449–56 (39 ref.)

Breakthrough sepsis in macrolide–resistant pneumococcal infection. Jackson MA, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):1049–51

A multicenter, randomized, open label comparison of azithromycin and amoxicillin/clavulanate in acute otitis media among children attending day care or school. Khurana CM. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S24–9

A multicenter, open label trial of azithromycin for the treatment of children with acute otitis media. McCarty J. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S10–4

A multicenter, double blind comparison of azithromycin and amoxicillin/ clavulanate for the treatment of acute otitis media in children. McLinn S. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S20–3

Azithromycin vs. doxycycline for Mediterranean spotted fever. Meloni G, et al. **Pediatr Infect Dis J** 1996 Nov; 15(11):1042–4

Evaluation of the efficacy, safety and toleration of azithromycin vs. penicillin V in the treatment of acute streptococcal pharyngitis in children: results of a multicenter, open comparative study. The Swiss Tonsillopharyngitis Study Group [see comments] Schaad UB, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):791–5. Comment in: Pediatr Infect Dis J 1997 May;16(5):542.

Macrolides in the management of streptococcal pharyngitis/tonsillitis. Tarlow MJ. **Pediatr Infect Dis J** 1997 Apr;16(4):444–8 (24 ref.)

Future indications for macrolides. Tarlow MJ, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):457–62 (27 ref.)

Reduced serum theophylline concentrations after discontinuation of azithromycin: evidence for an unusual interaction. Pollak PT, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):827–9

Efficacy and safety of azithromycin versus lymecyline in the treatment of genital chlamydial infections in women. Brihmer C, et al. **Scand J Infect Dis** 1996;28(5):451–4

Multicenter trial of single–dose azithromycin vs. ceftriaxone in the treatment of uncomplicated gonorrhea. Azithromycin Gonorrhea Study Group. Handsfield HH, et al. **Sex Transm Dis** 1994 Mar–Apr;21(2):107–11

Activity of artemether–azithromycin versus artemether–doxycycline in the treatment of multiple drug resistant falciparum malaria. Na–Bangchang K, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):522–5

Response of babesiosis to a combined regimen of quinine and azithromycin. Shaio MF, et al. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr;91(2):214–5

Azithromycin prophylaxis prevents epidemic dysentery. Shanks GD, et al. **Trans R Soc Trop Med Hyg** 1996 May–Jun;90(3):316

[Efficacy of a 5–day treatment with an azalide (azithromycin) in superinfections of chronic bronchitis] Zuck P. **Rev Pneumol Clin** 1996;52 Suppl 2:S56–9 **(Fre)**

[Azithromycin combined with pyrimethamine in the treatment of neurotoxoplasmosis, in an AIDS patient] Trotta M, et al. **Minerva Med** 1997 Mar;88(3):117–9 (Eng. Abstr.) **(Ita)**

[A clinical evaluation of azithromycin in the treatment of pediatric infection] Furukawa S, et al. **Jpn J Antibiot** 1996 Nov;49(11):1013–23 (Eng. Abstr.) **(Jpn)**

[Therapeutic efficacy of azithromycin in pediatrics] Haruta T, et al. **Jpn J Antibiot** 1996 Oct;49(10):926–31 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in pediatric infections] Ishida Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):1030–8 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in the pediatric field] Kitamura K, et al. **Jpn J Antibiot** 1997 Feb;50(2):206–14 (Eng. Abstr.) **(Jpn)**

[Clinical study of a macrolide antibiotic, azithromycin, in pediatric patients] Kobayashi Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):1004–12 (Eng. Abstr.) **(Jpn)**

[Therapy with azithromycin in pediatric infections] Kuroda Y, et al. **Jpn J Antibiot** 1996 Oct;49(10):932–8 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of azithromycin in pediatric infections] Nishimura T, et al. **Jpn J Antibiot** 1996 Oct;49(10):917–25 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical studies on azithromycin in children] Ohtsuka Y, et al. **Jpn J Antibiot** 1996 Nov; 49(11):1039–48 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluations of azithromycin in the pediatric field] Okada T, et al. **Jpn J Antibiot** 1996 Nov;49(11):1024–9 (Eng. Abstr.) **(Jpn)**

[Clinical studies on azithromycin in pediatrics] Okamoto T, et al. **Jpn J Antibiot** 1996 Oct;49(10):939–46 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in pediatrics] Okumura A, et al. **Jpn J Antibiot** 1996 Nov; 49(11):994–1003 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic, bacteriological and clinical studies on azithromycin in children] Tajima T, et al. **Jpn J Antibiot** 1997 Feb;50(2):200–5 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin using fine granules or capsules in the pediatric patients] Toyonaga Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):981–93 (Eng. Abstr.) **(Jpn)**

[Azithromycin (sumamed)—in the treatment of respiratory tract infections] Fomina IP, et al. **Antibiot Khimioter** 1996 Feb;41(2):52–61 (36 ref.) **(Rus)**

["Sumamed in the treatment of urogenital infections"] Kuznetsova SM. **Antibiot Khimioter** 1996 Feb;41(2):3–4 **(Rus)**

[Clinico–laboratory evaluation of the effectiveness of azithromycin in the treatment of patients with Chlamydia and mixed Chlamydia–gonorrhea infections] Vasil'ev MM, et al. **Antibiot Khimioter** 1996 Feb;41(2):9–13 (Eng. Abstr.) **(Rus)**

TOXICITY

Azithromycin–related ototoxicity in patients infected with human immunodeficiency virus. Tseng AL, et al. **Clin Infect Dis** 1997 Jan;24(1):76–7

AZLOCILLIN

ADMINISTRATION & DOSAGE

[Enhancement of treatment efficacy in experimental plague by the sequential administration of antibiotics] Makarovskaia LN, et al. **Antibiot Khimioter** 1996; 41(11):25-7 (Eng. Abstr.) **(Rus)**

AZO COMPOUNDS

In vitro degradation of pH-sensitive hydrogels containing aromatic azo bonds. Ghandehari H, et al. **Biomaterials** 1997 Jun;18(12):861-72

Plant cuticle staining with bismarck brown Y and azure B or toluidine blue O before paraffin extraction. Graham ET, et al. **Biotech Histochem** 1996 Mar;71(2):92-5

Protein staining with Ponceau S during acid-urea-triton-polyacrylamide gel electrophoresis. Correia H, et al. **Biotechniques** 1997 May;22(5):846-8

Effects of dietary bile acids on formation of azoxymethane-induced aberrant crypt foci in F344 rats. Seraj MJ, et al. **Cancer Lett** 1997 May 1;115(1):97-103

Ethyl carbamate levels resulting from azodicarbonamide use in bread. Cañas BJ, et al. **Food Addit Contam** 1997 Jan; 14(1):89-94

The contribution of azodicarbonamide to ethyl carbamate formation in bread and beer. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):101-8

The effect of azodicarbonamide concentrations on ethyl carbamate concentrations in bread and toast. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):95-100

Histochemical staining of cadmium with 2-(8-quinolylazo)-4,5-diphenylimidazole. Sumi Y, et al. **Histochem Cell Biol** 1996 Aug;106(2):223-7

A new acid-fast trichrome stain for simultaneous detection of Cryptosporidium parvum and microsporidial species in stool specimens. Ignatius R, et al. **J Clin Microbiol** 1997 Feb;35(2):446-9

[Contribution of Trichrome Blue in the diagnosis of microsporidiosis] Honoré PS, et al. **Bull Soc Pathol Exot** 1996;89(3):179-80 (Eng. Abstr.) **(Fre)**

[Imaging of laser thermokeratoplasty lesions by optical low coherence tomography and polarization microscopy after Sirius Red staining] Asiyo-Vogel MN, et al. **Ophthalmologe** 1997 Jul;94(7):487-91 (Eng. Abstr.) **(Ger)**

[Steatocrit and Sudan III in the study of steatorrhea in children: comparison with the Van de Kamer method] Maranhão HS, et al. **Arq Gastroenterol** 1995 Jul-Sep; 32(3):140-5 (Eng. Abstr.) **(Por)**

ADMINISTRATION & DOSAGE

Effect of oral and parenteral administration of metanil yellow on some hepatic and intestinal biochemical parameters. Ramchandani S, et al. **J Appl Toxicol** 1997 Jan-Feb; 17(1):85-91

ADVERSE EFFECTS

Multiple azo disperse dye sensitization mainly due to group sensitizations to azo dyes. Nakagawa M, et al. **Contact Dermatitis** 1996 Jan;34(1):6-11

Cross-sensitizations between azo dyes and para-amino compound. A study of 236 azo-dye-sensitive subjects. Seidenari S, et al. **Contact Dermatitis** 1997 Feb;36(2):91-6

Textile dermatitis and dyed maggot exposure. Warren LJ, et al. **Contact Dermatitis** 1997 Feb;36(2):106

ANALYSIS

Simultaneous determination of the colorants sunset yellow FCF and quinoline yellow by solid-phase spectrophotometry using partial least squares multivariate calibration. Capitán-Vallvey LF, et al. **Analyst** 1997 Apr; 122(4):351-4

Structural determination of unknown subsidiary colors in food yellow no. 5 (Sunset yellow FCF). Yamada M, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1624-7

Speciation of chromium dyes by high-performance liquid chromatography with inductively coupled plasma mass spectrometric detection. Zoorob GK, et al. **J Chromatogr A** 1997 Jun 27;773(1-2):157-62

CHEMICAL SYNTHESIS

3-Diazopyrroles. Part 6. Mutagenic activity of 3-diazopyrroles in Streptomyces coelicolor A3(2) during various phases of growth. Cirrincione G, et al. **Farmaco** 1996 Jan;51(1):49-52

Synthesis of oligonucleotide derivatives containing an azobenzene linker. Yamana K, et al. **Nucleic Acids Symp Ser** 1995;(34):39-40

CHEMISTRY

Cytotoxic quinolines (part 2). Azolylalkylamino and-thio quinolines. Abel MD, et al. **Drug Des Discov** 1996 Mar; 14(1):31-42

Cytotoxic quinolines (part 1). Azolylalkyloxy quinolines and 1-azolylalkyl-4(1H)-quinolones. Abel MD, et al. **Drug Des Discov** 1996 Mar;14(1):15-30

The pH dependence of lipid peroxidation using water-soluble azo initiators. Hanlon MC, et al. **Free Radic Biol Med** 1997; 23(5):712-9

EPR spin trapping study of the decomposition of azo compounds in aqueous solutions by ultrasound: potential for use as sonodynamic sensitizers for cell killing. Mišík V, et al. **Free Radic Res** 1996 Jul;25(1):13-22

Dipolar cycloadditions in solid-phase organic synthesis (SPOS). Kantorowski EJ, et al. **Mol Divers** 1997 Apr; 2(4):207-16 (51 ref.)

DIAGNOSTIC USE

Application of a sensitive and specific reagent for the determination of serum iron to the Bayer DAX48. Artiss JD, et al. **Am J Clin Pathol** 1997 Sep;108(3):269-74

Histologic analysis of thermal effects of laser thermokeratoplasty and corneal ablation using Sirius-red polarization microscopy. Asiyo-Vogel MN, et al. **J Cataract Refract Surg** 1997 May;23(4):515-26

The central odontogenic fibroma and the hyperplastic dental follicle: study with Picrosirius red and polarizing microscopy. Hirschberg A, et al. **J Oral Pathol Med** 1996 Mar;25(3):125-7

Spectrophotometric determination of Fe(II) in pharmaceutical multivitamin preparations by azo dye derivatives of pyrocatechol. Zaręba S, et al. **J Pharm Biomed Anal** 1996 Jun;14(8-10):1351-4

Differentiation of subgroups of type 2B with Sudan black B staining in rat skeletal muscle. Konishi M, et al. **Kaibogaku Zasshi** 1996 Feb;71(1):15-9

METABOLISM

Arazoformyl peptide surrogates as spectrophotometric kinetic assay substrates for carboxypeptidase A. Mock WL, et al. **Anal Biochem** 1996 Aug 1;239(2):218-22

Reduction of azo dyes by redox mediators originating in the naphthalenesulfonic acid degradation pathway of Sphingomonas sp. strain BN6. Keck A, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3684-90

Studies on pyroelectric response of polymers modified with azobenzene moieties. Brehmer L, et al. **EXS** 1997;80:155-65

Nature of the high azocoll lytic activity from prawn (Metapenaeus brevicornis) muscle. Karani M, et al. **Indian J Biochem Biophys** 1996 Jun;33(3):228-30

PHARMACOKINETICS

Absorption and disposition kinetics of 3,3',4,4'-tetrachloroazoxybenzene in the male Fischer 344 rat. Ziegler TL, et al. **Drug Metab Dispos** 1996 Sep; 24(9):1009-14

PHARMACOLOGY

In vitro effects of an azo compound on the haemolysis and unsaturated fatty acids of red blood cells. Pekiner B, et al. **Clin Chim Acta** 1997 Jul 25;263(2):157-64

Reversible and irreversible inhibition of sheep liver sorbitol dehydrogenase with Cibacron Blue 3GA and Eriochrome Black T. Kvernmo T, et al. **Int J Biochem Cell Biol** 1996 Mar;28(3):303-9

Influence of substituent of direct dye having bisphenylenebis(azo) skeletal structure on structure of nascent cellulose produced by Acetobacter xylinum [I]: different influence of direct red 28, blue 1 and 15 on nascent structure. Kai A, et al. **Int J Biol Macromol** 1997 Jun; 20(3):221-31

Irreversible inhibition of hepatic fatty acid salt uptake by photoaffinity labeling with 11, 11-azistearate. Schmider W, et al. **J Lipid Res** 1996 Apr;37(4):739-53

Azodicarbonamide inhibits HIV-1 replication by targeting the nucleocapsid protein. Rice WG, et al. **Nat Med** 1997 Mar;3(3):341-5

Diet and carcinogen alter luminal butyrate concentration and intracellular pH in isolated rat colonocytes. Zoran DL, et al. **Nutr Cancer** 1997;27(3):222-30

Mechanism for mouse strain differences in the protective effect of Sudan III against the in vivo genotoxicity of 7,12-dimethylbenz[a]anthracene. Hatakeyama S, et al. **Toxicol Lett** 1996 Dec 31;89(3):231-9

TOXICITY

Reproductive and neurobehavioural effects of lac dye administered in the diet to mice. Tanaka T. **Food Addit Contam** 1997 May-Jun;14(4):373-80

Genotoxicity of industrial dyes under the inductive effect of ethanol on monooxygenase system in mice. Wrońska-Nofer T, et al. **Mutat Res** 1997 Aug 14; 392(3):229-35

P-AZOBENZENEARSONATE

IMMUNOLOGY

Contribution of heavy chain junctional amino acid diversity to antibody affinity among p-azophenylarsonate-specific antibodies. Parhami-Seren B, et al. **J Immunol** 1996 Sep 1;157(5):2066-72

AZOCINES

ANALYSIS

Enhancement of the molecular ion yield in plasma desorption mass spectrometry using explosive matrices. Zubarev RA, et al. **Rapid Commun Mass Spectrom** 1997;11(1):63-70

PHARMACOLOGY

CGP-48506 increases contractility of ventricular myocytes and myofilaments by effects on actin-myosin reaction. Wolska BM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H24-32

The novel inotropic agent CGP 48506 alters force primarily by Ca(2+)-independent mechanisms in porcine skinned trabeculae. Palmer S, et al. **Cardiovasc Res** 1996 Aug; 32(2):411-21

Differential effects of the Ca2+ sensitizers caffeine and CGP 48506 on the relaxation rate of rat skinned cardiac trabeculae. Palmer S, et al. **Circ Res** 1997 May;80(5):682-7

Ca2+ channel activation by CGP 48506, a new positive inotropic benzodiazocine derivative. Herzig S. **Eur J Pharmacol** 1996 Jan 4;295(1):113-7

AZOFERREDOXIN see **DINITROGENASE REDUCTASE**

AZOLES

CHEMICAL SYNTHESIS

Cytotoxic quinolines (Part 3). Synthesis of 1-azolylalkyl-4(1H)-quinolones as cytotoxic agents. Abel MD, et al. **Drug Des Discov** 1996 Oct;14(2):115-27

CHEMISTRY

The reaction of ebselen with peroxynitrite. Masumoto H, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):262-7

METABOLISM

Attenuation of oxidation and nitration reactions of peroxynitrite by selenomethionine, selenocystine and ebselen. Briviba K, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):13-5

Kinetic study of the reaction of ebselen with peroxynitrite. Masumoto H, et al. **FEBS Lett** 1996 Dec 2;398(2-3):179-82

PHARMACOLOGY

Mechanisms of resistance to azole antifungals. Marichal P, et al. **Acta Biochim Pol** 1995;42(4):509-16 (57 ref.)

Ebselen as a glutathione peroxidase mimic and as a scavenger of peroxynitrite. Sies H, et al. **Adv Pharmacol** 1997; 38:229-46 (105 ref.)

In vitro activities of terbinafine in combination with fluconazole and itraconazole against isolates of Candida albicans with reduced susceptibility to azoles. Barchiesi F, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1812-4

Correlation between rhodamine 123 accumulation and azole sensitivity in Candida species: possible role for drug efflux in drug resistance. Clark FS, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):419-25

Enhanced oxidative killing of azole-resistant Candida glabrata strains with ERG11 deletion. Kan VL, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1717-9

Naturally azole-resistant Leishmania braziliensis promastigotes are rendered susceptible in the presence of terbinafine: comparative study with azole-susceptible Leishmania mexicana promastigotes [published erratum appears in Antimicrob Agents Chemother 1997 Feb;41(2):496] Rangel H, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2785-91

In vitro activity of a new pneumocandin antifungal, L-743,872, against azole-susceptible and -resistant Candida species. Vazquez JA, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1612-4

In vitro interaction between amphotericin B and azoles in Candida albicans. Vazquez JA, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2511-6

Modified agar dilution susceptibility testing method for determining in vitro activities of antifungal agents, including azole compounds. Yoshida T, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1349-51

Ebselen and cytokine-induced nitric oxide synthase expression in insulin-producing cells. de-Mello MA, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1703-9

Inhibition of copper- and peroxyl radical-induced LDL lipid oxidation by ebselen: antioxidant actions in addition to hydroperoxide-reducing activity. Lass A, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):111-8

Selective calmodulin antagonists fail to inhibit phorbol ester-induced superoxide anion release from human neutrophils: effects of antifungal azole derivatives. Hegemann L, et al. **Br J Dermatol** 1996 Aug;135(2):199-203

Lipid peroxidation in presence of ebselen. Batna A, et al. **Chem Phys Lipids** 1997 Jul 14;87(2):149-58

The reaction of ebselen with peroxynitrite. Masumoto H, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):262-7

Molecular mechanisms of azole resistance in fungi. Joseph-Horne T, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):141-9 (33 ref.)

Scavenging of hypochlorous acid by carvedilol and ebselen in vitro. Aruoma OI. **Gen Pharmacol** 1997 Feb;28(2):269-72

Different effects of azole-antifungal agents on the regulation of intracellular calcium concentration of Trichophyton rubrum. Inoue I, et al. **J Dermatol Sci** 1996 Jun;12(2):156-62

Inhibition and interaction of cytochrome P450 of Candida

krusei with azole antifungal drugs. Venkateswarlu K, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):19–25
New evidence that Candida albicans possesses additional ATP-binding cassette MDR-like genes: implications for antifungal azole resistance. Walsh TJ, et al. **J Med Vet Mycol** 1997 Mar–Apr;35(2):133–7
Effects of preconditioning with ebselen on glutathione metabolism and stress protein expression. Hoshida S, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1471–5
Effect of ebselen on bovine and rat nitric oxide synthase activity is modified by thiols. Hattori R, et al. **Jpn J Pharmacol** 1996 Oct;72(2):191–3
Antihypertensive effect of repeatedly administered YM358, an angiotensin AT1-receptor antagonist, in stroke-prone spontaneously hypertensive rats. Yamaguchi N, et al. **Jpn J Pharmacol** 1997 Jan;73(1):83–91
Antifungal screening of seven new azole derivatives. Mares D, et al. **Microbios** 1996;86(348):185–93
In vitro susceptibility of Malassezia furfur against azole compounds. Schmidt A, et al. **Mycoses** 1996 Jul–Aug; 39(7–8):309–12
Novel azole derivatives are antagonists at the inhibitory GABA receptor on the somatic muscle cells of the parasitic nematode Ascaris suum. Bascal Z, et al. **Parasitology** 1996 Feb;112 (Pt 2):253–9
Ebselen, a novel anti-oxidant compound, protects the rat liver from ischemia-reperfusion injury. Ozaki M, et al. **Transpl Int** 1997;10(2):96–102
[Controversies in the standardization of susceptibility testing on yeasts to azole antimycotics] Tintelnot K, et al. **Mycoses** 1996;39 Suppl 2:22–6 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Efficacy of UK-109496, a new azole antifungal agent, in an experimental model of invasive aspergillosis. George D, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):86–91
Oral azoles versus bladder irrigation with amphotericin B for the treatment of fungal urinary tract infections [letter; comment] [see comments] Johnson JR. **Clin Infect Dis** 1996 Aug;23(2):416. Comment on: Clin Infect Dis 1996 Jan;22(1):30–5. Comment in: Clin Infect Dis 1997 Jun;24(6):1284–5.
Azole resistance in Candida. Denning DW, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):261–80 (163 ref.)
[Azole antifungal agents in the prevention of fungal infections in neutropenic patients and bone marrow graft recipients] Lortholary O, et al. **Ann Med Interne (Paris)** 1997; 148(3):258–67 (106 ref.) (Eng. Abstr.) **(Fre)**
[Management of seborrhoic dermatitis] **Hautarzt** 1994 Apr; 45(4 Suppl):1–4 **(Ger)**

TOXICITY

Susceptibility of mice to bacterial and fungal infections after intragastric administration of ebselen. Nozawa R, et al. **J Pharm Pharmacol** 1996 Jan;48(1):64–7

AZOLINIC ACID see **CINOXACIN**

AZOMONAS see **AZOTOBACTERACEAE**

AZOOSPERMIA see **OLIGOSPERMIA**

AZOPHENYLARSONATE see **P-AZOBENZENEARSONATE**

AZOREAN DISEASE see **MACHADO-JOSEPH DISEASE**

AZOSPIRILLUM

GENETICS

Azospirillum lipoferum tRNAs: fractionation and identification of tRNA species and the nucleotide sequence of tRNA(Asn) (QUU). Sivakamasundari R, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1221–6

AZOSPIRILLUM BRASILENSE

ENZYMOLOGY

Site-specific endonuclease AbaI from Azospirillum brasilense UQ 1796 is an isoschizomer of endonuclease BclI. Zabaznaya EV, et al. **Biochemistry (Mosc)** 1997 Apr; 62(4):343–9
Purification and properties of aromatic amino acid aminotransferases from Azospirillum brasilense UAP 14 strain. Soto-Urzua L, et al. **Can J Microbiol** 1996 Mar; 42(3):294–8

IMMUNOLOGY

Production and characterization of strain-specific monoclonal antibodies against outer membrane components of Azospirillum brasilense Sp245. Schloter M, et al. **Hybridoma** 1996 Jun;15(3):225–32
Characterization and application of a strain-specific monoclonal antibody against the rhizosphere bacterium Azospirillum brasilense Wa5. Schloter M, et al. **Hybridoma** 1997 Apr;16(2):183–7

METABOLISM

Spectroscopic characterization of the uptake of essential and xenobiotic metal cations in cells of the soil bacterium Azospirillum brasilense. Kamnev AA, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):123–30
Oxygen taxis and proton motive force in Azospirillum brasilense. Zhulin IB, et al. **J Bacteriol** 1996 Sep; 178(17):5199–204

PHYSIOLOGY

Regulation of nitrogen fixation in Azospirillum brasilense. Zhang Y, et al. **FEMS Microbiol Lett** 1997 Jul 15; 152(2):195–204 (69 ref.)

AZOTEMIA see **UREMIA**

AZOTOBACTER

ENZYMOLOGY

Purification and characterization of 2,4,6-trichlorophenol-4-monooxygenase, a dehalogenating enzyme from Azotobacter sp. strain GP1. Wieser M, et al. **J Bacteriol** 1997 Jan;179(1):202–8

METABOLISM

Elimination of mercury and organomercurials by nitrogen-fixing bacteria. Ghosh S, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):993–8
A sensor protein involved in induction of nitrate assimilation in Azotobacter chroococcum. Muñoz-Centeno MC, et al. **FEBS Lett** 1996 Sep 9;393(1):7–12

AZOTOBACTER VINELANDII

CHEMISTRY

A leucine-rich repeat variant with a novel repetitive protein structural motif [letter] Peters JW, et al. **Nat Struct Biol** 1996 Dec;3(12):991–4

CYTOLOGY

Investigations on the cell volumes of Azotobacter vinelandii by scanning electron microscopy. Efuet ET, et al. **J Basic Microbiol** 1996;36(4):229–34

ENZYMOLOGY

Reduction of thiocyanate, cyanate, and carbon disulfide by nitrogenase: kinetic characterization and EPR spectroscopic analysis. Rasche ME, et al. **Biochemistry** 1997 Jul 15;36(28):8574–85
The [4Fe-4S] cluster domain of the nitrogenase iron protein facilitates conformational changes required for the cooperative binding of two nucleotides. Ryle MJ, et al. **Biochemistry** 1996 Dec 10;35(49):15654–62
Azotobacter vinelandii glucose 6-phosphate dehydrogenase properties of NAD- and NADP-linked reactions. Anderson BM, et al. **Biochim Biophys Acta** 1997 Jul 18; 1340(2):268–76
Hydrodynamic properties of nitrogenase—the MoFe protein from Azotobacter vinelandii studied by dynamic light scattering and hydrodynamic modelling. Hellweg T, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):311–8
Three-dimensional structure in solution of the N-terminal lipoyl domain of the pyruvate dehydrogenase complex from Azotobacter vinelandii. Berg A, et al. **Eur J Biochem** 1997 Mar 1;244(2):352–60
Comparative in-vivo and in-vitro 99Mo-time-differential-perturbed-angular-correlation studies on the nitrogenase MoFe protein and on other Mo species of different N2-fixing bacteria. Muller A, et al. **Eur J Biochem** 1997 Jun 1;246(2):311–9
Generation of protonic potential by the bd-type quinol oxidase of Azotobacter vinelandii. Bertsova YV, et al. **FEBS Lett** 1997 Sep 8;414(2):369–72
Cloning and expression of the gene for a protein disulfide oxidoreductase from Azotobacter vinelandii: complementation of an Escherichia coli dsbA mutant strain. Ng TC, et al. **Gene** 1997 Mar 25;188(1):109–13
Formation of pH and potential gradients by the reconstituted Azotobacter vinelandii cytochrome bd respiratory protection oxidase. Kolonay JF Jr, et al. **J Bacteriol** 1997 Jun;179(11):3813–7
Purification of the Azotobacter vinelandii nifV-encoded homocitrate synthase. Zheng L, et al. **J Bacteriol** 1997 Sep; 179(18):5963–6
Characterization of VNFG, the delta subunit of the vnf-encoded apodinitrogenase from Azotobacter vinelandii. Implications for its role in the formation of functional dinitrogenase 2. Chatterjee R, et al. **J Biol Chem** 1997 Feb 7;272(6):3758–65
In vitro synthesis of the iron-molybdenum cofactor and maturation of the nif-encoded apodinitrogenase. Effect of substitution of VNFH for NIFH. Chatterjee R, et al. **J Biol Chem** 1997 Aug 22;272(34):21604–8
Pre-steady-state kinetics of nitrogenase from Azotobacter vinelandii. Evidence for an ATP-induced conformational change of the nitrogenase complex as part of the reaction mechanism. Duyvis MG, et al. **J Biol Chem** 1996 Nov 22; 271(47):29632–6

GENETICS

A new Azotobacter vinelandii mannuronan C-5-epimerase gene (algG) is part of an alg gene cluster physically organized in a manner similar to that in Pseudomonas aeruginosa. Rehm BH, et al. **J Bacteriol** 1996 Oct; 178(20):5884–9
Investigations on the cell volumes of Azotobacter vinelandii by scanning electron microscopy. Efuet ET, et al. **J Basic Microbiol** 1996;36(4):229–34
Identification of a palindromic sequence that is responsible for the up-regulation of NAPDH-ferredoxin reductase in a ferredoxin I deletion strain of Azotobacter vinelandii. Yannone SM, et al. **J Biol Chem** 1997 May 30; 272(22):14454–8
The Azotobacter vinelandii gene algJ encodes an outer-membrane protein presumably involved in export of alginate. Rehm BH. **Microbiology** 1996 Apr;142 (Pt 4):873–80
The cydR gene product, required for regulation of cytochrome bd expression in the obligate aerobe Azotobacter vinelandii, is an Fnr-like protein. Wu G, et al. **Microbiology** 1997 Jul;143 (Pt 7):2197–207
Ammonium repression of the nitrite-nitrate (nasAB) assimilatory operon of Azotobacter vinelandii is enhanced in mutants expressing the nifO gene at high levels. Gutierrez JC, et al. **Mol Gen Genet** 1997 Jun;255(2):172–9
Characterization and mutagenesis of the leucine biosynthetic genes of Azotobacter vinelandii: an analysis of the rarity of amino acid auxotrophs. Manna AC, et al. **Mol Gen Genet** 1997 Mar 26;254(2):207–17
Genetic analysis of the transcriptional arrangement of Azotobacter vinelandii alginate biosynthetic genes: identification of two independent promoters. Lloret L, et al. **Mol Microbiol** 1996 Aug;21(3):449–57

METABOLISM

Nitrogenase activity and regeneration of the cellular ATP pool in Azotobacter vinelandii adapted to different oxygen concentrations. Linkerhägner K, et al. **J Bacteriol** 1997 Feb; 179(4):1362–7
Effect of nutrients on alginate synthesis in Azotobacter vinelandii and characterization of the produced alginate. Sabry SA, et al. **Microbiologia** 1996 Dec;12(4):593–8
The Azotobacter vinelandii gene algJ encodes an outer-membrane protein presumably involved in export of alginate. Rehm BH. **Microbiology** 1996 Apr;142 (Pt 4):873–80
Characterization and mutagenesis of the leucine biosynthetic genes of Azotobacter vinelandii: an analysis of the rarity of amino acid auxotrophs. Manna AC, et al. **Mol Gen Genet** 1997 Mar 26;254(2):207–17
nasST, two genes involved in the induction of the assimilatory nitrite-nitrate reductase operon (nasAB) of Azotobacter vinelandii. Gutierrez JC, et al. **Mol Microbiol** 1995 Nov;18(3):579–91

AZOTOBACTERACEAE

METABOLISM

Initial reactions in the oxidation of 1,2-dihydronaphthalene by Sphingomonas yanoikuyae strains. Eaton SL, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4388–94

AZOXYMETHANE

Modulation of apoptosis by sulindac, curcumin, phenylethyl-3-methylcaffeate, and 6-phenylhexyl isothiocyanate: apoptotic index as a biomarker in colon cancer chemoprevention and promotion. Samaha HS, et al. **Cancer Res** 1997 Apr 1;57(7):1301–5
Increased expression of inducible and endothelial constitutive nitric oxide synthases in rat colon tumors induced by azoxymethane. Takahashi M, et al. **Cancer Res** 1997 Apr 1;57(7):1233–7
Synergistic suppression of azoxymethane-induced foci of colonic aberrant crypts by the combination of beta-carotene and perilla oil in rats. Komaki C, et al. **Carcinogenesis** 1996 Sep;17(9):1897–901
Effect of soya bean saponins on azoxymethane-induced preneoplastic lesions in the colon of mice. Koratkar R, et al. **Nutr Cancer** 1997;27(2):206–9

CHEMISTRY

Inhibitory effects of lemon grass (Cymbopogon citratus Stapf) on formation of azoxymethane-induced DNA adducts and aberrant crypt foci in the rat colon. Suaeyun R, et al. **Carcinogenesis** 1997 May;18(5):949–55

TOXICITY

Effects of diet and ethanol treatment on azoxymethane-induced liver and gastrointestinal neoplasia of male rats. Hakkak R, et al. **Cancer Lett** 1996 Oct 22; 107(2):257–64
Sulindac sulfone inhibits azoxymethane-induced colon carcinogenesis in rats without reducing prostaglandin levels. Piazza GA, et al. **Cancer Res** 1997 Jul 15; 57(14):2909–15
Bifidobacterium longum and lactulose suppress azoxymethane-induced colonic aberrant crypt foci in rats. Challa A, et al. **Carcinogenesis** 1997 Mar;18(3):517–21

AZOXYMETHANE

Suppression of azoxymethane-induced rat colon carcinoma development by a fish oil component, docosahexaenoic acid (DHA). Takahashi M, et al. **Carcinogenesis** 1997 Jul; 18(7):1337-42

Chemopreventive agents-induced regression of azoxymethane-induced aberrant crypt foci with the recovery of hexosaminidase activity. Tao L, et al. **Carcinogenesis** 1997 Jul;18(7):1415-8

The ability of two cooked food mutagens to induce aberrant crypt foci in mice. Kristiansen E, et al. **Eur J Cancer Prev** 1997 Feb;6(1):53-7

Inhibition of azoxymethane-initiated colon tumor by bovine lactoferrin administration in F344 rats. Sekine K, et al. **Jpn J Cancer Res** 1997 Jun;88(6):523-6

Mutagenicity and toxicity of the DNA alkylation carcinogens 1,2-dimethylhydrazine and azoxymethane in Escherichia coli and Salmonella typhimurium. Xiao W, et al. **Mutagenesis** 1996 May;11(3):241-5

AZT (ANTIVIRAL) see **ZIDOVUDINE**

AZTREONAM

ADMINISTRATION & DOSAGE

Effect of recombinant human granulocyte colony-stimulating factor on combination therapy with aztreonam and clindamycin for infections in neutropenic patients with hematologic diseases. Toyama K, et al. **Kansenshogaku Zasshi** 1996 Dec;70(12):1242-53

ADVERSE EFFECTS

Comparative epileptogenic properties of two monobactam derivatives in C57, Swiss and DBA/2 mice. De Sarro A, et al. **J Antimicrob Chemother** 1996 Sep;38(3):475-84

ANALOGS & DERIVATIVES

Comparative epileptogenic properties of two monobactam derivatives in C57, Swiss and DBA/2 mice. De Sarro A, et al. **J Antimicrob Chemother** 1996 Sep;38(3):475-84

ANALYSIS

High-performance liquid chromatography of alpha-amino acids and aztreonam on reversed phase columns with aqueous Cu2+ as eluent. Khedr A. **Biomed Chromatogr** 1996 Jul-Aug;10(4):167-71

[Determination of moxalactam, aztreonam and imipenem by the perchloric hydroxylamine method] Pajchel G, et al. **Acta Pol Pharm** 1992;49(1-2):7-10 (Eng. Abstr.) **(Pol)**

ECONOMICS

Pharmacoeconomics of aztreonam-clindamycin versus gentamicin-clindamycin in the treatment of penetrating abdominal injury. Fabian TC, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):951-7

METABOLISM

Selection and characterization of amino acid substitutions at residues 237-240 of TEM-1 beta-lactamase with altered substrate specificity for aztreonam and ceftazidime. Cantu C III, et al. **J Biol Chem** 1996 Sep 13;271(37):22538-45

PHARMACOKINETICS

Pharmacokinetics of aztreonam in critically ill surgical patients. Cornwell EE 3rd, et al. **Am J Health Syst Pharm** 1997 Mar 1;54(5):537-40

Pharmacokinetics of aztreonam and imipenem in critically ill patients with pneumonia. McKindley DS, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):924-31

PHARMACOLOGY

Differential distributions in tissues and efficacies of aztreonam and ceftazidime and in vivo bacterial morphological changes following treatment. Turcotte A, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):401-9

Validation of Etest for seven antimicrobial agents using regulatory criteria for the assessment of antimicrobial susceptibility devices. Biedenbach DJ, et al. **Diagn Microbiol Infect Dis** 1997 Jan-Feb;27(1-2):1-5

The origin, by mutation, of high level resistance to ceftazidime and cefotaxime in a clinical isolate of Enterobacter cloacae. Blahová J, et al. **J Chemother** 1996 Aug;8(4):266-9

Comparison of screening methods for detection of extended-spectrum beta-lactamases and their prevalence among blood isolates of Escherichia coli and Klebsiella spp. in a Belgian teaching hospital. Vercauteren E, et al. **J Clin Microbiol** 1997 Sep;35(9):2191-7

THERAPEUTIC USE

The use of aztreonam as an alternate therapy for multi-resistant Pseudomonas aeruginosa. Walton MA, et al. **Burns** 1997 May;23(3):225-7

Aztreonam/clavulanic acid in the treatment of serious infections caused by Stenotrophomonas maltophilia in neutropenic patients: case reports. García Sánchez JE, et al. **J Chemother** 1997 Jun;9(3):238-40

Pharmacoeconomics of aztreonam-clindamycin versus gentamicin-clindamycin in the treatment of penetrating abdominal injury. Fabian TC, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):951-7

[Use of aztreonam for the purpose of preventing postoperative purulent complications] Iakovlev VP, et al. **Antibiot Khimioter** 1996 Feb;41(2):40-2 (Eng. Abstr.) **(Rus)**

AZURE STAINS

Plant cuticle staining with bismarck brown Y and azure B or toluidine blue O before paraffin extraction. Graham ET, et al. **Biotech Histochem** 1996 Mar;71(2):92-5

[Comparison of 2 dyes in the detection of Pneumocystis carinii] Casanova-Cardiel LJ, et al. **Rev Invest Clin** 1996 Nov-Dec;48(6):443-7 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Receptor inactivation by dye-neuropeptide conjugates: 1. The synthesis of Cys-containing dye-neuropeptide conjugates. Feigenbaum JJ, et al. **Peptides** 1996;17(6):991-4

DIAGNOSTIC USE

Diagnosis of malaria by acridine orange fluorescent microscopy in an endemic area of venezuela. Bosch I, et al. **Mem Inst Oswaldo Cruz** 1996 Jan-Feb;91(1):83-6

[Method of estimation of lysozyme activity in serum with chitin azure as substrate] Pisarzhevskii SA, et al. **Vopr Med Khim** 1997 May-Jun;43(3):185-90 (Eng. Abstr.) **(Rus)**

AZURIN

ANALOGS & DERIVATIVES

The pseudoazurin gene from Thiosphaera pantotropha: analysis of upstream putative regulatory sequences and overexpression in Escherichia coli. Leung YC, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):699-705

Mavicyanin, a stellacyanin-like protein from zucchini peelings: primary structure and comparison with other cupredoxins. Schininà ME, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):28-32

The structural gene for rusticyanin from Thiobacillus ferrooxidans: cloning and sequencing of the rusticyanin gene. Hall JF, et al. **FEMS Microbiol Lett** 1996 Mar 15; 137(1):85-9

NMR solution structure of Cu(I) rusticyanin from Thiobacillus ferrooxidans: structural basis for the extreme acid stability and redox potential. Botuyan MV, et al. **J Mol Biol** 1996 Nov 15;263(5):752-67

Multiple wavelength anomalous diffraction (MAD) crystal structure of rusticyanin: a highly oxidizing cupredoxin with extreme acid stability. Walter RL, et al. **J Mol Biol** 1996 Nov 15;263(5):730-51

A missing link in cupredoxins: crystal structure of cucumber stellacyanin at 1.6 A resolution. Hart PJ, et al. **Protein Sci** 1996 Nov;5(11):2175-83

Structural comparison of cupredoxin domains: domain recycling to construct proteins with novel functions. Murphy ME, et al. **Protein Sci** 1997 Apr;6(4):761-70

CHEMISTRY

X-ray structure determination and characterization of the Pseudomonas aeruginosa azurin mutant Met121Glu. Karlsson BG, et al. **Biochemistry** 1997 Apr 8;36(14):4089-95

Effect of pH and ligand binding on the structure of the Cu site of the Met121Glu mutant of azurin from Pseudomonas aeruginosa. Strange RW, et al. **Biochemistry** 1996 Dec 17; 35(50):16391-8

Dimerization of a His117Gly azurin mutant by external addition of 1,omega-di(imidazol-1-yl)alkanes. van Pouderoyen G, et al. **Biochemistry** 1996 Oct 8; 35(40):13205-11

Detection of a pH-dependent conformational change in azurin by time-resolved phosphorescence. Hansen JE, et al. **Biophys J** 1996 Oct;71(4):2138-43

The mutation Met121-->His creates a type-1.5 copper site in Alcaligenes denitrificans azurin. Kroes SJ, et al. **Eur J Biochem** 1996 Sep 1;240(2):342-51

Electron-transfer properties of Pseudomonas aeruginosa [Lys44, Glu64]azurin. Van Pouderoyen G, et al. **Eur J Biochem** 1997 Jul 1;247(1):322-31

Site-directed mutagenesis of azurin from Pseudomonas aeruginosa enhances the formation of an electron-transfer complex with a copper-containing nitrite reductase from Alcaligenes faecalis S-6. Kukimoto M, et al. **FEBS Lett** 1996 Sep 23;394(1):87-90

Crystal structures of modified apo-His117Gly and apo-His46Gly mutants of Pseudomonas aeruginosa azurin. Hammann C, et al. **J Mol Biol** 1997 Feb 21;266(2):357-66

Effects of folding on metalloprotein active sites. Winkler JR, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4246-9

Probing the structure and mobility of Pseudomonas aeruginosa azurin by circular dichroism and dynamic fluorescence anisotropy. Mei G, et al. **Protein Sci** 1996 Nov; 5(11):2248-54

The metal site of Pseudomonas aeruginosa azurin, revealed by a crystal structure determination of the Co(II) derivative and Co-EPR spectroscopy. Bonander N, et al. **Proteins** 1997 Mar;27(3):385-94

GENETICS

Dimerization of a His117Gly azurin mutant by external addition of 1,omega-di(imidazol-1-yl)alkanes. van Pouderoyen G, et al. **Biochemistry** 1996 Oct 8; 35(40):13205-11

Crystal structures of modified apo-His117Gly and apo-His46Gly mutants of Pseudomonas aeruginosa azurin. Hammann C, et al. **J Mol Biol** 1997 Feb 21;266(2):357-66

METABOLISM

Effect of pH and ligand binding on the structure of the Cu site of the Met121Glu mutant of azurin from Pseudomonas aeruginosa. Strange RW, et al. **Biochemistry** 1996 Dec 17; 35(50):16391-8

Site-directed mutagenesis of azurin from Pseudomonas aeruginosa enhances the formation of an electron-transfer complex with a copper-containing nitrite reductase from Alcaligenes faecalis S-6. Kukimoto M, et al. **FEBS Lett** 1996 Sep 23;394(1):87-90

The metal site of Pseudomonas aeruginosa azurin, revealed by a crystal structure determination of the Co(II) derivative and Co-EPR spectroscopy. Bonander N, et al. **Proteins** 1997 Mar;27(3):385-94

AZYGOS VEIN

Management of azygos vein "steal" following hemi-Fontan by transcatheter coil embolization. Vance MS, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):403-6 (7 ref.)

Azygos arch cannulation by central venous catheters: radiographic detection of malposition and subsequent complications. Bankier AA, et al. **J Thorac Imaging** 1997 Jan;12(1):64-9

[Shunt surgery versus disconnection in portal hypertension. A comparative study] Bondía JA, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):273-9 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Primary Budd-Chiari syndrome due to complex venous anomalies. Sakamoto N, et al. **Abdom Imaging** 1997 Sep-Oct;22(5):499-501

Anomalous azygous-hemiazygous anastomosis: radiographic findings [letter] Gilkeson RC, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):285-6

Anomalous azygos vein: a potential danger during endoscopic thoracic sympathectomy. Sieunarine K, et al. **Aust N Z J Surg** 1997 Aug;67(8):578-9

Bilateral inferior vena cava with azygos continuation but without congenital heart disease complicates routine venous cannulation for cardiopulmonary bypass in an adult. Wolfhard U, et al. **Thorac Cardiovasc Surg** 1997 Feb; 45(1):40-2

[Adenocarcinoma of the lobus v. azygos, characteristics of lymphogenous and hematogenous metastasis] Metzmann U, et al. **Aktuelle Radiol** 1996 Jan;6(1):32-4 (Eng. Abstr.) **(Ger)**

[Azygos continuation of the inferior vena cava] Takayama S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):59-62 (9 ref.) **(Jpn)**

PHYSIOLOGY

Physiological changes during acute obstruction of the superior vena cava, azygos, and internal thoracic veins in dogs. Urayama H, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):87-92

PHYSIOPATHOLOGY

Azygos blood flow: phase contrast quantitation in volunteers and patients with portal hypertension pre- and postintrahepatic shunt placement. Debatin JF, et al. **Hepatology** 1996 Nov;24(5):1109-15

Effects of endoscopic variceal sclerotherapy on azygos vein blood flow and systemic haemodynamics. Yokoyama M, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):780-5

RADIONUCLIDE IMAGING

Abnormal first-pass flow through the azygos vein from Valsalva maneuver. Mrhac L, et al. **Clin Nucl Med** 1996 Apr;21(4):331-2

SURGERY

Giant azygos vein varix. Podbielski FJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):1167-9

B7 ANTIGEN see **ANTIGENS, CD80**

B7-1 COSTIMULATORY MOLECULE see **ANTIGENS, CD80**

B16 MELANOMA see **MELANOMA, EXPERIMENTAL**

B19 VIRUS see **PARVOVIRUS B19, HUMAN**

B220 ANTIGENS see **ANTIGENS, CD45**

B-ALL see **LEUKEMIA, B-CELL, ACUTE**

B- AND T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA see **LEUKEMIA, MIXED-CELL**

B- AND T-CELL LEUKEMIA, ACUTE see **LEUKEMIA, MIXED-CELL**

B-CELL ACTIVATION ANTIGEN see **ANTIGENS, CD80**

B-CELL DIFFERENTIATION ANTIGENS see **ANTIGENS, DIFFERENTIATION, B-LYMPHOCYTE**

B-CELL DIFFERENTIATION FACTOR-2 see **INTERLEUKIN-6**

B-CELL EPITOPES see **EPITOPES, B-LYMPHOCYTE**

B-CELL GENE REARRANGEMENT see **GENE REARRANGEMENT, B-LYMPHOCYTE**

B-CELL GROWTH FACTOR, HIGH MOLECULAR WEIGHT see **INTERLEUKIN-14**

B-CELL GROWTH FACTOR-I see **INTERLEUKIN-4**

B-CELL GROWTH FACTOR-II see **INTERLEUKIN-5**

B-CELL HEAVY CHAIN GENE REARRANGEMENT see **GENE REARRANGEMENT, B-LYMPHOCYTE, HEAVY CHAIN**

B-CELL LEUKEMIA see **LEUKEMIA, B-CELL**

B-CELL LEUKEMIA, ACUTE see **LEUKEMIA, B-CELL, ACUTE**

B-CELL LEUKEMIA, CHRONIC see **LEUKEMIA, B-CELL, CHRONIC**

B-CELL LIGHT CHAIN GENE REARRANGEMENT see **GENE REARRANGEMENT, B-LYMPHOCYTE, LIGHT CHAIN**

B-CELL LYMPHOMA see **LYMPHOMA, B-CELL**

B-CELL STIMULATORY FACTOR-1 see **INTERLEUKIN-4**

B-CELL STIMULATORY FACTOR-2 see **INTERLEUKIN-6**

B-CELL SUBSETS see **B-LYMPHOCYTE SUBSETS**

B-CELLS see **B-LYMPHOCYTES**

B FIBERS see **AUTONOMIC FIBERS, PREGANGLIONIC**

B-K MOLE SYNDROME see **DYSPLASTIC NEVUS SYNDROME**

B VIRUS see **HERPESVIRUS 1, CERCOPITHECINE**

BABESIA

In vitro cultivation of Babesia occultans. Van Niekerk CJ, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):259–61

Survey of tick related problems in roe deer (Capreolus capreolus) in The Netherlands. Dorrestein GM, et al. **Vet Q** 1996;18 Suppl 3:S148 (5 ref.)

CLASSIFICATION

Human babesiosis in Taiwan: asymptomatic infection with a Babesia microti-like organism in a Taiwanese woman. Shih CM, et al. **J Clin Microbiol** 1997 Feb;35(2):450–4

Transfusion-transmitted babesiosis in Washington State: first reported case caused by a WA1-type parasite. Herwaldt BL, et al. **J Infect Dis** 1997 May;175(5):1259–62

Description and epizootiology of Babesia poelea n. sp. in brown boobies (Sula leucogaster (Boddaert)) on Sand Island, Johnston Atoll, Central Pacific. Work TM, et al. **J Parasitol** 1997 Aug;83(4):734–8

DRUG EFFECTS

Quinine in the treatment of Babesia divergens infections in humans [letter] Brasseur P, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):840–1

Therapeutic efficacy of atovaquone against the bovine intraerythrocytic parasite, Babesia divergens. Pudney M, et al. **J Parasitol** 1997 Apr;83(2):307–10

Photosensitized inactivation of Plasmodium falciparum- and Babesia divergens-infected erythrocytes in whole blood by lipophilic pheophorbide derivatives. Grellier P, et al. **Vox Sang** 1997;72(4):211–20

GENETICS

A polymerase chain reaction method for the identification of genes encoding members of the Bv60/p58 family of rhoptry protein homologues in the genus Babesia. Dalrymple BP, et al. **Exp Parasitol** 1996 Oct;84(1):96–100

Dimorphic sequences of rap-1 genes encode B and CD4+ T helper lymphocyte epitopes in the Babesia bigemina rhoptry associated protein-1. Hötzel I, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):89–99

Single copy Babesia microti hsp70. Jie HB, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):241–6

Molecular cloning of a putative rhoptry associated protein homologue from Babesia divergens. Skuce PJ, et al. **Mol Biochem Parasitol** 1996 Apr;77(1):99–102

GROWTH & DEVELOPMENT

Case report: field-acquired subclinical Babesia equi infection confirmed by in vitro culture. Holman PJ, et al. **J Clin Microbiol** 1997 Feb;35(2):474–6

Improved in vitro cultivation of Babesia caballi. Avarzed A, et al. **J Vet Med Sci** 1997 Jun;59(6):479–81

Continuous in vitro culture of Babesia divergens in a serum-free medium. Grande N, et al. **Parasitology** 1997 Jul;115 (Pt 1):81–9

IMMUNOLOGY

Development of effective living vaccines against bovine babesiosis—the longest field trial? Callow LL, et al. **Int J Parasitol** 1997 Jul;27(7):747–67

Experimental Babesia microti infection in golden hamsters: immunoglobulin G response and recovery from severe hemolytic anemia. Hu R, et al. **J Parasitol** 1996 Oct; 82(5):728–32

Clinical, anatomic, and immunopathologic characterization of Babesia gibsoni infection in the domestic dog (Canis familiaris). Wozniak EJ, et al. **J Parasitol** 1997 Aug; 83(4):692–9

Effects of depletion of T cell subpopulations on the course of infection and anti-parasite delayed type hypersensitivity response in mice infected with Babesia microti and Babesia rodhaini. Shimada T, et al. **J Vet Med Sci** 1996 Apr; 58(4):343–7

Dimorphic sequences of rap-1 genes encode B and CD4+ T helper lymphocyte epitopes in the Babesia bigemina rhoptry associated protein-1. Hötzel I, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):89–99

Not peripheral parasitaemia but the level of soluble parasite antigen in plasma correlates with vaccine efficacy against Babesia canis. Schetters TP, et al. **Parasite Immunol** 1996 Jan;18(1):1–6

Babesial antibody dynamics after cattle immunisation with live vaccines, measured with an indirect immunofluorescence test. Guglielmone AA, et al. **Vet Parasitol** 1997 Jun;70(1–3):33–9

Duration of protective immunity in experimental canine babesiosis after homologous and heterologous challenge. Vercammen F, et al. **Vet Parasitol** 1997 Jan;68(1–2):51–5

ISOLATION & PURIFICATION

A subtropical case of human babesiosis. Olmeda AS, et al. **Acta Trop** 1997 Sep 30;67(3):229–34

Comparison of indirect immunofluorescence (IIF) and enzyme-linked immunosorbent assay (ELISA) in detecting Babesia bigemina infection in cattle. Reddy GG, et al. **Acta Vet Hung** 1997;45(1):67–74

Entomological correlates of Babesia microti prevalence in an area where Ixodes scapularis (Acari:Ixodidae) is endemic. Mather TN, et al. **J Med Entomol** 1996 Sep; 33(5):866–70

Experimental transmission of Babesia ovata oshimensis n. var. of cattle in Japan by Haemaphysalis longicornis. Ohta M, et al. **J Vet Med Sci** 1996 Nov;58(11):1153–5

Babesia sp. in Colombian bats (Microchiroptera). Marinkelle CJ. **J Wildl Dis** 1996 Jul;32(3):534–5

In vitro cultivation of Babesia equi: detection of carrier animals and isolation of parasites. Zweygarth E, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):51–6

First report of Babesia divergens in Tunisia. Bouattour A, et al. **Vet Parasitol** 1996 May;63(1–2):161–5

Monoclonal antibodies against Babesia caballi and Babesia equi and their application in serodiagnosis. Brüning A, et al. **Vet Parasitol** 1997 Jan;68(1–2):11–26

Isolation of a South African vector-specific strain of Babesia canis. Lewis BD, et al. **Vet Parasitol** 1996 May;63(1–2):9–16

Asymptomatic carriers of Babesia canis in an enzootic area. Wlosniewski A, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jan;20(1):75–86 (Eng. Abstr.) **(Fre)**

PATHOGENICITY

Effect of breed of cattle on innate resistance to infection with Babesia bovis, B bigemina and Anaplasma marginale. Bock RE, et al. **Aust Vet J** 1997 May;75(5):337–40

Comparison of the infectivity of Babesia bovis, Babesia bigemina and Anaplasma centrale for cattle after cryopreservation in either dimethylsulphoxide (DMSO) or polyvinylpyrrolidone (PVP). Standfast NF, et al. **Aust Vet J** 1997 Jan;75(1):62–3

Comparative pathogenesis of human WA1 and Babesia microti isolates in a Syrian hamster model. Wozniak EJ, et al. **Lab Anim Sci** 1996 Oct;46(5):507–15

[The subspecies specificity of Babesia canis] Hauschild S, et al. **Berl Munch Tierarztl Wochenschr** 1996 Jun-Jul; 109(6–7):216–9 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Experimental infection with Ehrlichia phagocytophila and Babesia divergens in cattle. Brun-Hansen H, et al. **Zentralbl Veterinarmed [B]** 1997 Jun;44(4):235–43

[Experimental infection of mice with Babesia microti: characterization of parasitemia] Konopka E, et al. **Wiad Parazytol** 1996;42(4):395–406 (Eng. Abstr.) **(Pol)**

BABESIA BOVIS

Piroplasms of domestic animals in the Macedonia region of Greece. 1. Serological cross-reactions. Papadopoulos B, et al. **Vet Parasitol** 1996 May;63(1–2):41–56

Effect of passage of Babesia ovis in the gerbil (Acomys cahirinus) on the course of infection in splenectomized lambs. Yeruham I, et al. **Vet Parasitol** 1996 Oct 15; 65(1–2):157–61

GENETICS

Monitoring Babesia bovis infections in cattle by using PCR-based tests. Calder JA, et al. **J Clin Microbiol** 1996 Nov;34(11):2748–55

Characterisation of genes encoding a nucleoside monophosphate kinase and a L35 ribosomal protein from Babesia bovis. Silins GU, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):231–44

IMMUNOLOGY

Babesia bovis: biosynthesis and localisation of 12D3 antigen in bovine erythrocytes. Harper GS, et al. **Int J Parasitol** 1996 Nov;26(11):1255–62

Cross-sectional estimation of Babesia bovis antibody prevalence in an area of Argentina used for extensive cattle breeding as an aid to control babesiosis. Guglielmone AA, et al. **Prev Vet Med** 1997 May;30(2):151–4

An enzyme-linked immunosorbent assay (ELISA) for the detection of antibodies against Babesia bovis in cattle. Machado RZ, et al. **Vet Parasitol** 1997 Jul 15;71(1):17–26

ISOLATION & PURIFICATION

PCR methods for the discrimination of Babesia bovis isolates. Lew AE, et al. **Vet Parasitol** 1997 Aug;71(4):223–37

BABESIASIS see **BABESIOSIS**

BABESIOSIS

Human babesiosis. Dao AH. **Compr Ther** 1996 Nov; 22(11):713–8 (40 ref.)

Acute fulminating babesiosis in hamsters infected with Babesia microti. Oz HS, et al. **Int J Parasitol** 1996 Jun; 26(6):667–70

[Babesiosis in a splenectomized patient. Is it the first case in Spain? (letter; comment)] López Jiménez L. **Med Clin (Barc)** 1997 May 10;108(18):717. Comment on: Med Clin (Barc) 1996 Mar 23;106(11):427–9. **(Spa)**

BLOOD

Experimental Babesia microti infection in golden hamsters: immunoglobulin G response and recovery from severe hemolytic anemia. Hu R, et al. **J Parasitol** 1996 Oct; 82(5):728–32

Equine babesiosis associated with strenuous exercise: clinical and pathological studies in Jordan. Hailat NQ, et al. **Vet Parasitol** 1997 Apr;69(1–2):1–8

Erythrocyte oxidation in artificial Babesia gibsoni infection. Morita T, et al. **Vet Parasitol** 1996 May;63(1–2):1–7

COMPLICATIONS

Babesiosis in a patient with sickle cell anemia. Klein P, et al. **Am J Med** 1997 Apr;102(4):416

Babesiosis in Missouri [letter; comment] Byrd RP Jr, et al. **Ann Intern Med** 1997 Jan 15;126(2):172. Comment on: Ann Intern Med 1996 Apr 1;124(7):643–50.

Immunoserologic evidence of coinfection with Borrelia burgdorferi, Babesia microti, and human granulocytic Ehrlichia species in residents of Wisconsin and Minnesota. Mitchell PD, et al. **J Clin Microbiol** 1996 Mar;34(3):724–7

The comparative role of haemoglobinaemia and hypoxia in the development of canine babesial nephropathy. Lobetti RG, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):188–98

Rhabdomyolysis as a complication of canine babesiosis. Jacobson LS, et al. **J Small Anim Pract** 1996 Jun; 37(6):286–91

DIAGNOSIS

A subtropical case of human babesiosis. Olmeda AS, et al. **Acta Trop** 1997 Sep 30;67(3):229–34

Efficacy of immunoglobulin M serodiagnostic test for rapid diagnosis of acute babesiosis. Krause PJ, et al. **J Clin Microbiol** 1996 Aug;34(8):2014–6

Comparison of PCR with blood smear and inoculation of small animals for diagnosis of Babesia microti parasitemia. Krause PJ, et al. **J Clin Microbiol** 1996 Nov;34(11):2791–4

In vitro cultivation of Babesia equi: detection of carrier animals and isolation of parasites. Zweygarth E, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):51–6

First report of Babesia divergens in Tunisia. Bouattour A, et al. **Vet Parasitol** 1996 May;63(1–2):161–5

Monoclonal antibodies against Babesia caballi and Babesia equi and their application in serodiagnosis. Brüning A, et al. **Vet Parasitol** 1997 Jan;68(1–2):11–26

An enzyme-linked immunosorbent assay (ELISA) for the

detection of antibodies against Babesia bovis in cattle. Machado RZ, et al. **Vet Parasitol** 1997 Jul 15;71(1):17–26

Babesiosis in a foal [letter] Silvey RE. **Vet Rec** 1996 Oct 26;139(17):428

Asymptomatic carriers of Babesia canis in an enzootic area. Wlosniewski A, et al.
Comp Immunol Microbiol Infect Dis 1997 Jan;20(1):75–86 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Babesiosis in Missouri [letter; comment] Byrd RP Jr, et al. **Ann Intern Med** 1997 Jan 15;126(2):172. Comment on: Ann Intern Med 1996 Apr 1;124(7):643–50.

Evaluation of selected antiprotozoal drugs in the Babesia microti–hamster model. Marley SE, et al.
Antimicrob Agents Chemother 1997 Jan;41(1):91–4

Quinine in the treatment of Babesia divergens infections in humans [letter] Brasseur P, et al.
Eur J Clin Microbiol Infect Dis 1996 Oct;15(10):840–1

Therapeutic efficacy of atovaquone against the bovine intraerythrocytic parasite, Babesia divergens. Pudney M, et al. **J Parasitol** 1997 Apr;83(2):307–10

Changes in haematocrit after treatment of uncomplicated canine babesiosis: a comparison between diminazene and trypan blue, and an evaluation of the influence of parasitaemia. Jacobson LS, et al. **J S Afr Vet Assoc** 1996 Jun;67(2):77–82

Response of babesiosis to a combined regimen of quinine and azithromycin. Shaio MF, et al.
Trans R Soc Trop Med Hyg 1997 Mar–Apr;91(2):214–5

EPIDEMIOLOGY

Comparison of indirect immunofluorescence (IIF) and enzyme–linked immunosorbent assay (ELISA) in detecting Babesia bigemina infection in cattle. Reddy GG, et al.
Acta Vet Hung 1997;45(1):67–74

A sero–epidemiological survey of equine piroplasmosis in the northern and eastern Cape Provinces of South Africa. Gummow B, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):204–8

Cross–sectional estimation of Babesia bovis antibody prevalence in an area of Argentina used for extensive cattle breeding as an aid to control babesiosis. Guglielmone AA, et al. **Prev Vet Med** 1997 May;30(2):151–4

Piroplasms of domestic animals in the Macedonia region of Greece. 3. Piroplasms of small ruminants. Papadopoulos B, et al. **Vet Parasitol** 1996 May;63(1–2):67–74

Piroplasms of domestic animals in the Macedonia region of Greece. 1. Serological cross–reactions. Papadopoulos B, et al. **Vet Parasitol** 1996 May;63(1–2):41–56

Piroplasms of domestic animals in the Macedonia region of Greece. 2. Piroplasms of cattle. Papadopoulos B, et al.
Vet Parasitol 1996 May;63(1–2):57–66

Survey of tick related problems in roe deer (Capreolus capreolus) in The Netherlands. Dorrestein GM, et al.
Vet Q 1996;18 Suppl 3:S148 (5 ref.)

HISTORY

Development of effective living vaccines against bovine babesiosis—the longest field trial? Callow LL, et al.
Int J Parasitol 1997 Jul;27(7):747–67

IMMUNOLOGY

Effects of depletion of T cell subpopulations on the course of infection and anti–parasite delayed type hypersensitivity response in mice infected with Babesia microti and Babesia rodhaini. Shimada T, et al. **J Vet Med Sci** 1996 Apr; 58(4):343–7

Not peripheral parasitaemia but the level of soluble parasite antigen in plasma correlates with vaccine efficacy against Babesia canis. Schetters TP, et al. **Parasite Immunol** 1996 Jan;18(1):1–6

Environmental enrichment, immunocompetence, and resistance to Babesia microti in male mice. Barnard CJ, et al. **Physiol Behav** 1996 Nov;60(5):1223–31

Duration of protective immunity in experimental canine babesiosis after homologous and heterologous challenge. Vercammen F, et al. **Vet Parasitol** 1997 Jan;68(1–2):51–5

METABOLISM

Antibabesial effect of the immunomodulator AS101 in mice: role of increased production of nitric oxide. Rosenblatt–Bin H, et al. **Parasite Immunol** 1996 Jun;18(6):297–306

PARASITOLOGY

Monitoring Babesia bovis infections in cattle by using PCR–based tests. Calder JA, et al. **J Clin Microbiol** 1996 Nov;34(11):2748–55

Case report: field–acquired subclinical Babesia equi infection confirmed by in vitro culture. Holman PJ, et al.
J Clin Microbiol 1997 Feb;35(2):474–6

Comparison of PCR with blood smear and inoculation of small animals for diagnosis of Babesia microti parasitemia. Krause PJ, et al. **J Clin Microbiol** 1996 Nov;34(11):2791–4

Human babesiosis in Taiwan: asymptomatic infection with a Babesia microti–like organism in a Taiwanese woman. Shih CM, et al. **J Clin Microbiol** 1997 Feb;35(2):450–4

Description and epizootiology of Babesia poelea n. sp. in brown boobies (Sula leucogaster (Boddaert)) on Sand Island, Johnston Atoll, Central Pacific. Work TM, et al. **J Parasitol** 1997 Aug;83(4):734–8

Improved in vitro cultivation of Babesia caballi. Avarzed A, et al. **J Vet Med Sci** 1997 Jun;59(6):479–81

Babesia sp. in Colombian bats (Microchiroptera). Marinkelle CJ. **J Wildl Dis** 1996 Jul;32(3):534–5

Not peripheral parasitaemia but the level of soluble parasite antigen in plasma correlates with vaccine efficacy against Babesia canis. Schetters TP, et al. **Parasite Immunol** 1996 Jan;18(1):1–6

Experimental infection with Ehrlichia phagocytophila and Babesia divergens in cattle. Brun–Hansen H, et al.
Zentralbl Veterinarmed [B] 1997 Jun;44(4):235–43

[The subspecies specificity of Babesia canis] Hauschild S, et al. **Berl Munch Tierarztl Wochenschr** 1996 Jun–Jul; 109(6–7):216–9 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Clinical, anatomic, and immunopathologic characterization of Babesia gibsoni infection in the domestic dog (Canis familiaris). Wozniak EJ, et al. **J Parasitol** 1997 Aug; 83(4):692–9

Comparative pathogenesis of human WA1 and Babesia microti isolates in a Syrian hamster model. Wozniak EJ, et al. **Lab Anim Sci** 1996 Oct;46(5):507–15

Equine babesiosis associated with strenuous exercise: clinical and pathological studies in Jordan. Hailat NQ, et al.
Vet Parasitol 1997 Apr;69(1–2):1–8

Babesia shortti infection in a saker falcon (Falco cherrug). Samour JH, et al. **Vet Rec** 1996 Aug 17;139(7):167–8

PHYSIOPATHOLOGY

Effect of passage of Babesia ovis in the gerbil (Acomys cahirinus) on the course of infection in splenectomized lambs. Yeruham I, et al. **Vet Parasitol** 1996 Oct 15; 65(1–2):157–61

Babesiosis in a six–day–old calf. Egeli AK. **Vet Rec** 1996 Oct 5;139(14):344–5

PREVENTION & CONTROL

Antibabesial effect of the immunomodulator AS101 in mice: role of increased production of nitric oxide. Rosenblatt–Bin H, et al. **Parasite Immunol** 1996 Jun;18(6):297–306

Cross–sectional estimation of Babesia bovis antibody prevalence in an area of Argentina used for extensive cattle breeding as an aid to control babesiosis. Guglielmone AA, et al. **Prev Vet Med** 1997 May;30(2):151–4

Immunisation of smallholder dairy cattle against anaplasmosis and babesiosis in Malawi. Tjornehoj K, et al.
Trop Anim Health Prod 1997 May;29(2):77–82

Prophylactic treatment of experimental canine babesiosis (Babesia canis) with doxycycline. Vercammen F, et al.
Vet Parasitol 1996 Nov 15;66(3–4):251–5

Prophylactic activity of imidocarb against experimental infection with Babesia canis. Vercammen F, et al.
Vet Parasitol 1996 Jun;63(3–4):195–8

Photosensitized inactivation of Plasmodium falciparum– and Babesia divergens–infected erythrocytes in whole blood by lipophilic pheophorbide derivatives. Grellier P, et al.
Vox Sang 1997;72(4):211–20

TRANSMISSION

Spread of lymphatic filariasis, re–emergence of leishmaniasis & threat of babesiosis in India. Dhanda V, et al.
Indian J Med Res 1996 Jan;103:46–54 (70 ref.)

Transfusion–transmitted babesiosis in Washington State: first reported case caused by a WA1–type parasite. Herwaldt BL, et al. **J Infect Dis** 1997 May;175(5):1259–62

Vertically transmitted babesiosis [letter] New DL, et al.
J Pediatr 1997 Jul;131(1 Pt 1):163–4

Experimental transmission of Babesia ovata oshimensis n. var. of cattle in Japan by Haemaphysalis longicornis. Ohta M, et al. **J Vet Med Sci** 1996 Nov;58(11):1153–5

Isolation of a South African vector–specific strain of Babesia canis. Lewis BD, et al. **Vet Parasitol** 1996 May;63(1–2):9–16

Experiments on the transmission of Babesia major and Babesia bigemina by Haemaphysalis punctata. Yin H, et al. **Vet Parasitol** 1996 Dec 2;67(1–2):89–98

URINE

Met–haemoglobinuria in naturally occurring Babesia canis infection. Lobetti RG, et al. **J S Afr Vet Assoc** 1996 Jun; 67(2):88–90

BABINSKI REFLEX see **REFLEX, BABINSKI**

BABOONS see **PAPIO**

BABOONS, SAVANNA see **PAPIO**

BABY EQUIPMENT see **INFANT EQUIPMENT**

BACILLACEAE

ENZYMOLOGY

Structure and function of a squalene cyclase [see comments] Wendt KU, et al. **Science** 1997 Sep 19;277(5333):1811–5. Comment in: Science 1997 Sep 19;277(5333):1788–9.

BACILLACEAE INFECTIONS

[Meningoencephalitis caused by Bacillus cereus] Marx C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):361–3 **(Ger)**

DIAGNOSIS

Bacillus species pseudomeningitis. Cunha BA, et al.
Heart Lung 1997 May–Jun;26(3):249–51 (19 ref.)

[Bacillus cereus pneumonia after thoracic trauma. Case report and review of the literature] Bastian L, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1997 Feb; 32(2):124–9 (28 ref.) (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Experimental Bacillus cereus post–traumatic endophthalmitis and treatment with ciprofloxacin. Alfaro DV, et al.
Br J Ophthalmol 1996 Aug;80(8):755–8

Experimental posttraumatic Bacillus cereus endophthalmitis in a swine model. Efficacy of intravitreal ciprofloxacin, vancomycin, and imipenem. Alfaro DV 3rd, et al.
Retina 1996;16(4):317–23

ETIOLOGY

[Catheter associated infection by Bacillus macerans in a patient with acute leukemia (letter)] Barrero F, et al.
Enferm Infecc Microbiol Clin 1996 Dec;14(10):628–9 **(Spa)**

[Bacteremia associated with implantable device for central venous access caused by Bacillus cereus (letter)] Ramos JM, et al. **Enferm Infecc Microbiol Clin** 1996 May; 14(5):331–2 **(Spa)**

HISTORY

The bacillus of acute conjunctival catarrh, or 'pink eye'. 1886 [classical article] Weeks JE. **Arch Ophthalmol** 1996 Dec; 114(12):1510–1

MICROBIOLOGY

Use of pulsed–field gel electrophoresis to investigate a pseudo–outbreak of Bacillus cereus in a pediatric unit. Liu PY, et al. **J Clin Microbiol** 1997 Jun;35(6):1533–5

Fulminating bacteremia and pneumonia due to Bacillus cereus [published erratum appears in J Clin Microbiol 1997 May;35(5):1294] Miller JM, et al. **J Clin Microbiol** 1997 Feb;35(2):504–7

Larvicidal activity of Bacillus thuringiensis natural isolates; indigenous to Japan, against two nematoceran insect pests occurring in urban sewage environments. Saitoh H, et al.
Microbiol Res 1996 Aug;151(3):263–71

[The detection of Peptostreptococcus asaccharolyticus and Bacillus cereus in clinical materials from a child who died of sepsis with a fulminant clinical course] Beleva S, et al.
Zh Mikrobiol Epidemiol Immunobiol 1996 Nov–Dec; (6):16–20 (11 ref.) (Eng. Abstr.) **(Rus)**

PATHOLOGY

Demonstration of rat CAR bacillus using a labelled streptavidin biotin (LSAB) method. Orós J, et al.
J Vet Med Sci 1996 Dec;58(12):1219–21

PREVENTION & CONTROL

Laboratory and field studies on the effects of the antibiotic tylosin on honey bee Apis mellifera L. (Hymenoptera: Apidae) development and prevention of American foulbrood disease. Peng CYS, et al. **J Invertebr Pathol** 1996 Jan;67(1):65–71

VETERINARY

Laboratory and field studies on the effects of the antibiotic tylosin on honey bee Apis mellifera L. (Hymenoptera: Apidae) development and prevention of American foulbrood disease. Peng CYS, et al. **J Invertebr Pathol** 1996 Jan;67(1):65–71

Pathogenicity of cilia–associated respiratory (CAR) bacillus isolates for F344, LEW, and SD rats. Schoeb TR, et al.
Vet Pathol 1997 Jul;34(4):263–70

BACILLUS

Bacillus species pseudomeningitis. Cunha BA, et al.
Heart Lung 1997 May–Jun;26(3):249–51 (19 ref.)

Laboratory and field plot bioassay of Bacillus sphaericus against Arkansas mosquito species. Groves RL, et al.
J Am Mosq Control Assoc 1996 Jun;12(2 Pt 1):220–4

Control of Culex quinquefasciatus with Bacillus sphaericus in Vasco City, Goa. Kumar A, et al.
J Am Mosq Control Assoc 1996 Sep;12(3 Pt 1):409–13

Evaluation of entomopathogenic bacteria against Aedes polynesiensis, the vector of lymphatic filariasis in French Polynesia. Mercer DR, et al.
J Am Mosq Control Assoc 1995 Dec;11(4):485–8

Phlebotomine sand fly control using bait–fed adults to carry the larvicide Bacillus sphaericus to the larval habitat. Robert LL, et al. **J Am Mosq Control Assoc** 1997 Jun; 13(2):140–4

Cross–resistance to Bacillus sphaericus strains in Culex quinquefasciatus. Rodcharoen J, et al.
J Am Mosq Control Assoc 1996 Jun;12(2 Pt 1):247–50

Reversal of low-level resistance to Bacillus sphaericus in a field population of the southern house mosquito (Diptera:Culicidae) from an urban area of Recife, Brazil. Silva-Filha MH, et al. **J Econ Entomol** 1997 Apr; 90(2):299-303

Electrophysiological effects of Bacillus sphaericus binary toxin on cultured mosquito cells. Cokmus C, et al. **J Invertebr Pathol** 1997 May;69(3):197-204

Resistance to Bacillus sphaericus involves different mechanisms in Culex pipiens (Diptera:Culicidae) larvae. Nielsen-Leroux C, et al. **J Med Entomol** 1997 May; 34(3):321-7

Efficacy of a granular formulation of Bacillus sphaericus against Culex quinquefasciatus and Anopheles gambiae in West African countries. Skovmand O, et al. **J Vector Ecol** 1997 Jun;22(1):43-51

Efficacy of Bacillus sphaericus in different breeding habitats of Culex quinquefasciatus. Gunasekaran K, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):622-7

[Evaluation of the efficacy of Bacillus sphaericus Neid 1904 applied to previously cleaned gutters for Culex quinquefasciatus Say 1823 control in Abidjan (Côte d'Ivoire)] Zeze GD, et al. **Bull Soc Pathol Exot** 1996; 89(3):220-6 (Eng. Abstr.) **(Fre)**

[A comparison of the antibacterial activity of the parasporal bodies of different bacilli] Iudina TG. **Izv Akad Nauk Ser Biol** 1996 Sep-Oct;(5):535-41 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Differentiation of species in the Bacillus brevis group and the Bacillus aneurinolyticus group based on the electrophoretic whole-cell protein pattern. Shida O, et al. **Antonie Van Leeuwenhoek** 1996 Jul;70(1):31-9

Comparison of the cellular fatty acid composition of a bacterium isolated from a human and alleged to be Bacillus sphaericus with that of Bacillus sphaericus isolated from a mosquito larvicide. Siegel JP, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1006-10

Effect of heterogeneity of hydrophobic moieties on surface activity of lichenysin A, a lipopeptide biosurfactant from Bacillus licheniformis BAS50. Yakimov MM, et al. **Biotechnol Appl Biochem** 1996 Feb;23 (Pt 1):13-8

The carotenoid pigments of a marine Bacillus firmus strain. Pane L, et al. **Boll Soc Ital Biol Sper** 1996 Nov-Dec; 72(11-12):303-8

The D13C variant of Bacillus schlegelii 7Fe ferredoxin is an 8Fe ferredoxin as revealed by 1H-NMR spectroscopy. Aono S, et al. **FEBS Lett** 1997 Aug 4;412(3):501-5

Production and purification of Clostridium perfringens alpha-toxin using a protein-hyperproducing strain, Bacillus brevis 47. Nagahama M, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):239-43

S-layers of Bacillus species. Sidhu MS, et al. **Microbiology** 1997 Apr;143 (Pt 4):1039-52 (150 ref.)

The penicillin sensory transducer, BlaR, involved in the inducibility of beta-lactamase synthesis in Bacillus licheniformis is embedded in the plasma membrane via a four-alpha-helix bundle. Hardt K, et al. **Mol Microbiol** 1997 Mar;23(5):935-44

CLASSIFICATION

Studies on the composition and properties of thermophilic Bacillus populations in subterranean thermal waters of Budapest (Hungary). Martin AM. **Acta Microbiol Immunol Hung** 1997;44(1):13-9

Evaluation of Biolog system for identification of strains of Paenibacillus azotofixans. Pires MN, et al. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):195-200

Epidemiological typing of Bacillus spp. isolated from food. Schraft H, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4229-32

Comparison of the cellular fatty acid composition of a bacterium isolated from a human and alleged to be Bacillus sphaericus with that of Bacillus sphaericus isolated from a mosquito larvicide. Siegel JP, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1006-10

Isolation of two strains (S-R type) of Bacillus circulans and purification of a cyclomaltodextrin-glucanotransferase. Ferrarotti SA, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):653-7

Taxonomic status of car bacillus based on the small subunit ribosomal RNA sequences. Wei Q, et al. **Chin Med Sci J** 1995 Dec;10(4):195-8

The utilization of RAPD-PCR for identifying thermophilic and mesophilic Bacillus species. Ronimus RS, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):75-9

Sequencing and phylogenetic analysis of the spoIIA operon from diverse Bacillus and Paenibacillus species. Park SG, et al. **Gene** 1997 Jul 18;194(1):25-33

Bacillus salexigens sp. nov., a new moderately halophilic Bacillus species. Garabito MJ, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):735-41

A polyphasic reassessment of the genus Paenibacillus, reclassification of Bacillus lautus (Nakamura 1984) as Paenibacillus lautus comb. nov. and of Bacillus peoriae (Montefusco et al. 1993) as Paenibacillus peoriae comb. nov., and emended descriptions of P. lautus and of P. peoriae. Heyndrickx M, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):988-1003

Reclassification of Paenibacillus durum (formerly Clostridium durum Smith and Cato 1974) Collins et al. 1994 as a member of the species P. azotofixans (formerly Bacillus azotofixans Seldin et al. 1984) Ash et al. 1994. Rosado AS, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):569-72

Transfer of Bacillus alginolyticus, Bacillus chondroitinus, Bacillus curdlanolyticus, Bacillus glucanolyticus, Bacillus kobensis, and Bacillus thiaminolyticus to the genus Paenibacillus and emended description of the genus Paenibacillus. Shida O, et al. **Int J Syst Bacteriol** 1997 Apr; 47(2):289-98

Emended description of Paenibacillus amylolyticus and description of Paenibacillus illinoisensis sp. nov. and Paenibacillus chibensis sp. nov. Shida O, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):299-306

Proposal for two new genera, Brevibacillus gen. nov. and Aneurinibacillus gen. nov [published erratum appears in Int J Syst Bacteriol 1997 Jan;47(1):248] Shida O, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):939-46

Field trial of Bacillus sphaericus strain B-101 (serotype H5a, 5b) against filariasis and Japanese encephalitis vectors in India. Yadav RS, et al. **J Am Mosq Control Assoc** 1997 Jun;13(2):158-63

Morphological evidence of a filamentous cilia-associated respiratory (CAR) bacillus in goats. Fernández A, et al. **Vet Pathol** 1996 Jul;33(4):445-7

DRUG EFFECTS

Sporicidal activity of chemical and physical tissue fixation methods. Vardaxis NJ, et al. **J Clin Pathol** 1997 May; 50(5):429-33

Laboratory and field studies on the effects of the antibiotic tylosin on honey bee Apis mellifera L. (Hymenoptera: Apidae) development and prevention of American foulbrood disease. Peng CYS, et al. **J Invertebr Pathol** 1996 Jan;67(1):65-71

Antimicrobial resistance of three species of Bacillus to thirty various antimicrobial agents. Moldenhauer JE, et al. **PDA J Pharm Sci Technol** 1996 Sep-Oct;50(5):324-5

ENZYMOLOGY

Identification of a new restriction endonuclease R. BcrAI, from Bacillus cremoris. Piekarowicz A, et al. **Acta Microbiol Pol** 1995;44(3-4):315-316

Crystal structures of the alkaline proteases savinase and esperase from Bacillus lentus. Betzel C, et al. **Adv Exp Med Biol** 1996;379:49-61

Structural changes leading to increased enzymatic activity in an engineered variant of Bacillus lentus subtilisin. Bott R, et al. **Adv Exp Med Biol** 1996;379:277-83

Fluorescence decay of tryptophans in serine proteinases from microorganisms: relation to X-ray models. Genov N, et al. **Adv Exp Med Biol** 1996;379:141-5

Studies of binding sites in the subtilisin from Bacillus lentus by means of site directed mutagenesis and kinetic investigations. Grøn H, et al. **Adv Exp Med Biol** 1996; 379:105-12

Substrate specificity of natural variants and genetically engineered intermediates of Bacillus lentus alkaline proteases. Maurer KH, et al. **Adv Exp Med Biol** 1996; 379:243-56

Unusual ligand binding at the active site domain of an engineered mutant of subtilisin BL. Paech C, et al. **Adv Exp Med Biol** 1996;379:257-68

Unusually stable NAD-specific glutamate dehydrogenase from the alkaliphile Amphibacillus xylanus. Jahns T. **Antonie Van Leeuwenhoek** 1996 Jul;70(1):89-95

Influence of environmental factors on endo-beta-1,4-glucanase production by Bacillus HR68, isolated from a Zimbabwean hot spring. Mawadza C, et al. **Antonie Van Leeuwenhoek** 1996 May;69(4):363-9

Characterization of a monoclonal antibody that specifically inhibits pullulanase activity of Bacillus circulans amylase-pullulanase enzyme. Kim CH, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2-3):191-200

Purification and characterization of the D-hydantoinase from Bacillus circulans. Lukša V, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2-3):219-31

Characterization of a restriction-modification system of the thermotolerant methylotroph Bacillus methanolicus. Cue D, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1107-11

Arginase of Bacillus brevis Nagano: purification, properties, and implication in gramicidin S biosynthesis. Kanda M, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):37-42

Intracellular and extracellular forms of alkaline pullulanase from an alkaliphilic Bacillus sp. S-1. Lee MJ, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):308-16

Biotin synthase, a new member of the family of enzymes which uses S-adenosylmethionine as a source of deoxyadenosyl radical. Guianvarc'h D, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):402-6

A thermostable D-hydantoinase isolated from a mesophilic Bacillus sp.AR9. Sharma R, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):485-8

Secretion of Bacillus alpha-amylase from yeast directed by glucoamylase I signal sequence of Saccharomyces diastaticus. Kang DO, et al. **Biochem Mol Biol Int** 1996 May;39(1):181-90

Effect on product specificity of cyclodextrin glycosyltransferase by site-directed mutagenesis. Kim YH, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):227-34

Identification of peptide fragments chemically cross-linked in cytochrome c oxidase from thermophilic Bacillus PS3. Kuge S, et al. **Biochem Mol Biol Int** 1996 Feb;38(1):181-8

Bacillus thermocatenulatus lipase: a thermoalkaphilic lipase with interesting properties. Schmidt-Dannert C, et al. **Biochem Soc Trans** 1997 Feb;25(1):178-82

Binding sites for Mg(II) in H(+)-ATPase from Bacillus PS3 and in the alpha 3 beta 3 gamma subcomplex studied by one-dimensional ESEEM and two-dimensional HYSCORE spectroscopy of oxovanadium(IV) complexes: a possible role for beta-His-324. Buy C, et al. **Biochemistry** 1996 Nov 12;35(45):14281-93

Positioning the acid/base catalyst in a glycosidase: studies with Bacillus circulans xylanase. Lawson SL, et al. **Biochemistry** 1997 Feb 25;36(8):2257-65

Enzymatic properties of thiol-dependent serine proteinase of Bacillus intermedius 3-19. Itskovich EL, et al. **Biochemistry (Mosc)** 1997 Jan;62(1):49-53

Three site-specific endonucleases from thermophilic strain Bacillus species LA are isoschizomers of HhaI, AsuII, and HindIII. Shiryaev SA, et al. **Biochemistry (Mosc)** 1997 Mar; 62(3):237-46

Nucleotide sequence of the Bacillus licheniformis ATCC 10716 dat gene and comparison of the predicted amino acid sequence with those of other bacterial species. Taylor PP, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):38-40

Enzymology and folding of natural and engineered bacterial beta-glucanases studied by X-ray crystallography. Heinemann U, et al. **Biol Chem** 1996 Jul-Aug; 377(7-8):447-54 (42 ref.)

Isolation of two strains (S-R type) of Bacillus circulans and purification of a cyclomaltodextrin-glucanotransferase. Ferrarotti SA, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):653-7

Some properties of a cyclomaltodextrin-glucanotransferase from Bacillus circulans DF 9 R type. Maréchal LR, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):659-64

Purification of thermamylase in multicompartment electrolyzers with isoelectric membranes: the problem of protein solubility. Esteve-Romero JS, et al. **Electrophoresis** 1996 Jul;17(7):1242-7

Structural basis for the activation of phenylalanine in the non-ribosomal biosynthesis of gramicidin S. Conti E, et al. **EMBO J** 1997 Jul 16;16(14):4174-83

Properties of an NAD(H)-containing methanol dehydrogenase and its activator protein from Bacillus methanolicus. Arfman N, et al. **Eur J Biochem** 1997 Mar 1;244(2):426-33

The regulatory functions of the gamma and epsilon subunits from chloroplast CF1 are transferred to the core complex, alpha3beta3, from thermophilic bacterial F1. Hisabori T, et al. **Eur J Biochem** 1997 Aug 1;247(3):1158-65

Bacillus thermoamyloliquefaciens KP1071 alpha-glucosidase II is a thermostable M(r) 540,000 homohexameric alpha-glucosidase with both exo-alpha-1,4-glucosidase and oligo-1,6-glucosidase activities. Suzuki Y, et al. **Eur J Biochem** 1997 Apr 1;245(1):129-36

Glutamyl endopeptidase of Bacillus intermedius, strain 3-19. Leshchinskaya IB, et al. **FEBS Lett** 1997 Mar 10; 404(2-3):241-4

Site-directed mutagenesis of the amino acid residues in beta-strand III [Val30-Val36] of D-amino acid aminotransferase of Bacillus sp. YM-1. Ro HS, et al. **FEBS Lett** 1996 Dec 2;398(2-3):141-5

Cloning of a Bacillus sp. BP-23 gene encoding a xylanase with high activity against aryl xylosides. Blanco A, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):285-90

Regulation of cyclodextrin glucanotransferase synthesis in Bacillus ohbensis. Nishida T, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):221-6

Characterization of the xylanases from the new isolated thermophilic xylan-degrading Bacillus thermoleovorans strain K-3d and Bacillus flavothermus strain LB3A. Sunna A, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):209-16

Cloning and characterization of the Bg/II restriction-modification system reveals a possible evolutionary footprint. Anton BP, et al. **Gene** 1997 Mar 10;187(1):19-27

Bacillus caldolyticus prs gene encoding phosphoribosyl-diphosphate synthase. Krath BN, et al. **Gene** 1996 Oct 17;176(1-2):73-9

Thermostable alpha-amylase production using Bacillus licheniformis NRRL B14368. Bose K, et al. **Indian J Exp Biol** 1996 Dec;34(12):1279-82

Electron microscopic investigation of the diffusion of Bacillus licheniformis alpha-amylase into corn starch granules. Helbert W, et al. **Int J Biol Macromol** 1996 Oct;19(3):165-9

Construction and characterization of a mutant of alkaliphilic Bacillus firmus OF4 with a disrupted cta operon and purification of a novel cytochrome bd. Gilmour R, et al. **J Bacteriol** 1997 Feb;179(3):863-70

Most of the propeptide is dispensable for stability and autoprocessing of the zymogen of the germination protease of spores of Bacillus species. Pedersen LB, et al. **J Bacteriol** 1997 Mar;179(5):1824-7

Rapid purification of two thermophilic proteinases using dye-ligand chromatography. Cowan DA, et al. **J Biochem Biophys Methods** 1996 Jan 11;31(1-2):31-7

Rapid purification of two thermophilic proteinases using dye-ligand chromatography. Cowan DA, et al. **J Biochem Biophys Methods** 1996 Apr;32(1):1-6

Aspartate aminotransferase from an alkalophilic Bacillus

contains an additional 20-amino acid extension at its functionally important N-terminus. Battchikova N, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):425-32

A thermophilic alcohol dehydrogenase from Bacillus acidocaldarius not reactive towards ketones. D'Auria S, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):498-504

Nucleotide sequence of the uricase gene from Bacillus sp. TB-90. Yamamoto K, et al. **J Biochem (Tokyo)** 1996 Jan; 119(1):80-4

Amino acid sequence and molecular structure of an alkaline amylopullulanase from Bacillus that hydrolyzes alpha-1,4 and alpha-1,6 linkages in polysaccharides at different active sites. Hatada Y, et al. **J Biol Chem** 1996 Sep 27; 271(39):24075-83

Altering substrate specificity of Bacillus sp. SAM1606 alpha-glucosidase by comparative site-specific mutagenesis. Inohara-Ochiai M, et al. **J Biol Chem** 1997 Jan 17;272(3):1601-7

The alpha3beta3gamma subcomplex of the F1-ATPase from the thermophilic bacillus PS3 with the betaT165S substitution does not entrap inhibitory MgADP in a catalytic site during turnover. Jault JM, et al. **J Biol Chem** 1996 Nov 15;271(46):28818-24

The raw starch binding domain of cyclodextrin glycosyltransferase from Bacillus circulans strain 251. Penninga D, et al. **J Biol Chem** 1996 Dec 20; 271(51):32777-84

Mutational analysis of the major loop of Bacillus 1,3-1,4-beta-D-glucan 4-glucanohydrolases. Effects on protein stability and substrate binding. Pons J, et al. **J Biol Chem** 1997 May 16;272(20):13006-12

Biotin synthase of Bacillus sphaericus. Bui BT, et al. **Methods Enzymol** 1997;279:356-62 (16 ref.)

Production, purification and characterization of Bacillus lipase. el-Shafei HA, et al. **Microbiol Res** 1997 Jul; 152(2):199-208

Crystal structure of thermostable alpha-amylase from Bacillus licheniformis refined at 1.7 A resolution. Hwang KY, et al. **Mol Cells** 1997 Apr 30;7(2):251-8

BaeI, another unusual BcgI-like restriction endonuclease. Sears LE, et al. **Nucleic Acids Res** 1996 Sep 15; 24(18):3590-2

Structure-function relationship of the xylanase from alkaliphilic Bacillus sp. strain 41M-1. Nakamura S, et al. **Nucleic Acids Symp Ser** 1995;(34):99-100

A point mutation leads to altered product specificity in beta-lactamase catalysis. Lewis ER, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):443-7

Hyperthermostable mutants of Bacillus licheniformis alpha-amylase: multiple amino acid replacements and molecular modelling. Declerck N, et al. **Protein Eng** 1995 Oct;8(10):1029-37

Hyperthermostable mutants of Bacillus licheniformis alpha-amylase: thermodynamic studies and structural interpretation. Declerck N, et al. **Protein Eng** 1997 May; 10(5):541-9

The amino acid sequence required for 5' —> 3' exonuclease activity of Bacillus caldotenax DNA polymerase. Ishino Y, et al. **Protein Eng** 1995 Nov;8(11):1171-5

High-resolution crystal structure of M-protease: phylogeny aided analysis of the high-alkaline adaptation mechanism. Shirai T, et al. **Protein Eng** 1997 Jun;10(6):627-34

Recombinant uracil phosphoribosyltransferase from the thermophile Bacillus caldolyticus: expression, purification, and partial characterization. Jensen HK, et al. **Protein Expr Purif** 1997 Aug;10(3):356-64

Crystallization and preliminary X-ray analysis of phosphoserine aminotransferase from Bacillus circulans subsp. alkalophilus. Moser M, et al. **Protein Sci** 1996 Jul; 5(7):1426-8

Characterization of a buried neutral histidine residue in Bacillus circulans xylanase: NMR assignments, pH titration, and hydrogen exchange. Plesniak LA, et al. **Protein Sci** 1996 Nov;5(11):2319-28

Secondary structure and NMR assignments of Bacillus circulans xylanase. Plesniak LA, et al. **Protein Sci** 1996 Jun;5(6):1118-35

Individual amino acids in the N-terminal loop region determine the thermostability and unfolding characteristics of bacterial glucanases. Welfle K, et al. **Protein Sci** 1996 Nov;5(11):2255-65

Crystallization and preliminary X-ray crystallographic analysis of squalene-hopene cyclase from Alicyclobacillus acidocaldarius. Wendt KU, et al. **Protein Sci** 1997 Mar; 6(3):722-4

Crystals of cytochrome c-553 from Bacillus pasteurii show diffraction to 0.97 A resolution. Benini S, et al. **Proteins** 1997 Aug;28(4):580-5

Structural basis of the properties of an industrially relevant thermophilic xylanase. Harris GW, et al. **Proteins** 1997 Sep; 29(1):77-86

The solution structure of serine protease PB92 from Bacillus alcalophilus presents a rigid fold with a flexible substrate-binding site. Martin JR, et al. **Structure** 1997 Apr 15;5(4):521-32

The crystal structure of the nucleotide-free alpha 3 beta 3 subcomplex of F1-ATPase from the thermophilic Bacillus PS3 is a symmetric trimer. Shirakihara Y, et al. **Structure** 1997 Jun 15;5(6):825-36

[Cytotoxic properties of the complex of the antineoplastic antibiotic bleomycetin and Bacillus intermedius ribonuclease] Kalacheva NV, et al. **Antibiot Khimioter** 1997;42(4):16-20 (Eng. Abstr.) **(Rus)**

[Chemical modification of RNAse from Bacillus intermedius. Effect on the cytotoxic properties of the enzyme] Kurinenko BM, et al. **Antibiot Khimioter** 1996;41(7-8):9-12 (Eng. Abstr.) **(Rus)**

[Two site-specific endonucleases from ther thermophilic OV Bacillus species strain] Chernov AV, et al. **Biokhimiia** 1996 Oct;61(10):1837-47 (Eng. Abstr.) **(Rus)**

[Site-specific endonuclease BspR7I from thermophilic strain of Bacillus sp. R7] Vasil'eva LIu, et al. **Biokhimiia** 1996 Dec;61(12):2147-57 (Eng. Abstr.) **(Rus)**

[A new site-specific adenine DNA-methyltransferase from Bacillus species ST5] Zelinskaia NV, et al. **Biokhimiia** 1996 Jun;61(6):1006-14 (Eng. Abstr.) **(Rus)**

[Bacterial cell membrane ATPase in assessing heavy metal toxicity] Gruzina TG, et al. **Mikrobiologiia** 1997 Jan-Feb; 66(1):14-8 (Eng. Abstr.) **(Rus)**

[Kinetic characteristics of chimeric metalloproteinases from bacilli] Chumakov VN, et al. **Mol Biol (Mosk)** 1996 Mar-Apr;30(2):339-42 **(Rus)**

[Isolation, structural characteristics and functional properties of extracellular ribonuclease from Bacillus polymyxa] Dement'ev AA, et al. **Mol Biol (Mosk)** 1996 Sep-Oct; 30(5):1193-202 **(Rus)**

[Influence of Bacillus intermedius RNAse on growth-stimulating and antagonistic characteristics of Trichoderma harzianum] Egorov SI, et al. **Prikl Biokhim Mikrobiol** 1996 Sep-Oct;32(5):554-6 (Eng. Abstr.) **(Rus)**

[Modification of Bacillus intermedius ribonuclease by dialdehyde dextran] Kurinenko BM, et al. **Prikl Biokhim Mikrobiol** 1996 May-Jun;32(3):303-6 (Eng. Abstr.) **(Rus)**

[Comparative characteristics of microbial proteases by the level of hydrolysis of protein substrates] Rimareva LV, et al. **Prikl Biokhim Mikrobiol** 1997 Jan-Feb;33(1):43-8 (Eng. Abstr.) **(Rus)**

[Changes in the size and morphology of cells under the influence of bacterial ribonuclease] Kurinenko BM, et al. **Tsitologiia** 1996;38(7):667-73 (Eng. Abstr.) **(Rus)**

GENETICS

Structural and functional consequences of engineering the high alkaline serine protease PB92. van der Laan JM, et al. **Adv Exp Med Biol** 1996;379:203-18

Characterization of PCR products from bacilli using electrospray ionization FTICR mass spectrometry. Muddiman DC, et al. **Anal Chem** 1996 Nov 1; 68(21):3705-12

The erythromycin resistance gene from the Bacteroides conjugal transposon Tcr Emr 7853 is nearly identical to ermG from Bacillus sphaericus. Cooper AJ, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):506-8

Genetic manipulation of Bacillus methanolicus, a gram-positive, thermotolerant methylotroph. Cue D, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1406-20

Cloning and expression of an endo-1,3-1,4-beta-glucanase gene from Bacillus macerans in Lactobacillus reuteri. Heng NC, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3336-40

Distribution and characterization of mosquitocidal toxin genes in some strains of Bacillus sphaericus. Priest FG, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1195-8

Organization of the XYL genes in a thermophilic Bacillus species. Liao WX, et al. **Biochem Mol Biol Int** 1996 Aug; 39(5):1049-62

Nucleotide sequence of the Bacillus licheniformis ATCC 10716 dat gene and comparison of the predicted amino acid sequence with those of other bacterial species. Taylor PP, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):38-40

Gene from tropical Bacillus sphaericus encoding a protease closely related to subtilisins from Antarctic bacilli. Wati MR, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):56-62

Vancomycin-resistant Bacillus circulans carrying the vanA gene responsible for vancomycin resistance in enterococci [letter] Fontana R, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):473-4

The D13C variant of Bacillus schlegelii 7Fe ferredoxin is an 8Fe ferredoxin as revealed by 1H-NMR spectroscopy. Aono S, et al. **FEBS Lett** 1997 Aug 4;412(3):501-5

Cloning of a Bacillus sp. BP-23 gene encoding a xylanase with high activity against aryl xylosides. Blanco A, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):285-90

Expression of small RNAs by Bacillus sp. strain PS3 and B. subtilis cells during sporulation. Fink PS, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):387-92

The utilization of RAPD-PCR for identifying thermophilic and mesophilic Bacillus species. Ronimus RS, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):75-9

Sequencing and phylogenetic analysis of the spoIIA operon from diverse Bacillus and Paenibacillus species. Park SG, et al. **Gene** 1997 Jul 18;194(1):25-33

Nucleotide sequence of the Bacillus coagulans homologue of the spoIIA operon of Bacillus subtilis. Park SG, et al. **Gene** 1996 Oct 24;177(1-2):275-6

The complete nucleotide sequence of the Bacillus licheniformis NM105 S-layer-encoding gene. Zhu X, et al. **Gene** 1996 Sep 16;173(2):189-94

Molecular evolution and diversity in Bacillus anthracis as detected by amplified fragment length polymorphism markers. Keim P, et al. **J Bacteriol** 1997 Feb;179(3):818-24

Sequence heterogeneities of genes encoding 16S rRNAs in Paenibacillus polymyxa detected by temperature gradient gel electrophoresis. Nübel U, et al. **J Bacteriol** 1996 Oct; 178(19):5636-43

Cloning and analysis of the first cry gene from Bacillus popilliae. Zhang J, et al. **J Bacteriol** 1997 Jul; 179(13):4336-41

Aspartate aminotransferase from an alkalophilic Bacillus contains an additional 20-amino acid extension at its functionally important N-terminus. Battchikova N, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):425-32

Diversity and differential distribution of IS231, IS232 and IS240 among Bacillus cereus, Bacillus thuringiensis and Bacillus mycoides. Léonard C, et al. **Microbiology** 1997 Aug;143 (Pt 8):2537-47

The penicillin sensory transducer, BlaR, involved in the inducibility of beta-lactamase synthesis in Bacillus licheniformis is embedded in the plasma membrane via a four-alpha-helix bundle. Hardt K, et al. **Mol Microbiol** 1997 Mar;23(5):935-44

Two related rolling circle replication plasmids from salt-tolerant bacteria. Hasnain S, et al. **Plasmid** 1996 Nov; 36(3):191-9

Characterization of pBP614, a putative rolling-circle plasmid from Bacillus popilliae. Longley M, et al. **Plasmid** 1997; 37(1):15-21

Hyperthermostable mutants of Bacillus licheniformis alpha-amylase: multiple amino acid replacements and molecular modelling. Declerck N, et al. **Protein Eng** 1995 Oct;8(10):1029-37

[Extrachromosomal DNA spectrum of Bacillus thuringiensis Berliner and Bacillus sphaericus Meyer et Neide] Chichian VG, et al. **Genetika** 1997 Mar;33(3):308-13 (Eng. Abstr.) **(Rus)**

[Riboflavin biosynthetic genes in Bacillus amyloliquefaciens: primary structure, organization and regulation of activity] Gusarov II, et al. **Mol Biol (Mosk)** 1997 May-Jun; 31(3):446-53 **(Rus)**

GROWTH & DEVELOPMENT

Growth of silicone-immobilized bacteria on polycarbonate membrane filters, a technique to study microcolony formation under anaerobic conditions. Højberg O, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2920-4

Bacillus polymyxa stimulates increased Rhizobium etli populations and nodulation when co-resident in the rhizosphere of Phaseolus vulgaris. Petersen DJ, et al. **FEMS Microbiol Lett** 1996 Sep 1;142(2-3):271-6

Temperature characterization of psychrotrophic and mesophilic Bacillus species from milk. García-Armesto MR, et al. **J Dairy Res** 1997 May;64(2):261-70

IMMUNOLOGY

A serendipitous peek at tobacco. Hornsby RP. **J Tenn Med Assoc** 1996 Mar;89(3):90-1

ISOLATION & PURIFICATION

Identification and detection of Bacillus sporothermodurans spores in 1, 10, and 100 milliliters of raw milk by PCR. Herman LM, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3139-43

Monoclonal antibodies for use in detection of Bacillus and Clostridium spores. Quinlan JJ, et al. **Appl Environ Microbiol** 1997 Feb;63(2):482-7

Epidemiological typing of Bacillus spp. isolated from food. Schraft H, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4229-32

The bacillus of acute conjunctival catarrh, or 'pink eye'. 1886 [classical article] Weeks JE. **Arch Ophthalmol** 1996 Dec; 114(12):1510-1

The use of Bacillus diarrhoeal enterotoxin (BDE) detection using an ELISA technique in the confirmation of the aetiology of Bacillus-mediated diarrhoea. Tan A, et al. **J Appl Microbiol** 1997 Jun;82(6):677-82

Rapid, sensitive and specific detection of whole cells and spores using the light-addressable potentiometric sensor. Dill K, et al. **J Biochem Biophys Methods** 1997 Mar 27; 34(2):161-6

Demonstration of rat CAR bacillus using a labelled streptavidin biotin (LSAB) method. Orós J, et al. **J Vet Med Sci** 1996 Dec;58(12):1219-21

Bacterial contamination of hydrophilic contact lens solutions marketed in spain. Durbán JJ, et al. **Optom Vis Sci** 1996 Aug;73(8):529-32

Morphological evidence of a filamentous cilia-associated respiratory (CAR) bacillus in goats. Fernández A, et al. **Vet Pathol** 1996 Jul;33(4):445-7

METABOLISM

Microbial system for polysaccharide depolymerization: enzymatic route for gellan depolymerization by Bacillus sp. GL1. Hashimoto W, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):17-23

Pyridine degradation and heterocyclic nitrification by Bacillus coagulans. Uma B, et al. **Can J Microbiol** 1997 Jun;43(6):595-8

Influence of culture conditions on thermostable lipase production by a thermophilic alkalitolerant strain of Bacillus sp. Kambourova M, et al. **Folia Microbiol (Praha)** 1996;41(2):146-8

Degradation of 3-hydroxybenzoic acid by a Bacillus species. Mashetty SB, et al. **Indian J Biochem Biophys** 1996 Apr;

33(2):145–8
Crop improvement and disease suppression by a Bacillus spp. SR2 from pea nut rhizosphere. Kumar BS.
Indian J Exp Biol 1996 Aug;34(8):794–8
Role of the nhaC-encoded Na+/H+ antiporter of alkaliphilic Bacillus firmus OF4. Ito M, et al.
J Bacteriol 1997 Jun;179(12):3851–7
Free radical generation as induced by ochratoxin A and its analogs in bacteria (Bacillus brevis). Hoehler D, et al.
J Biol Chem 1996 Nov 1;271(44):27388–94
Fusaricidins B, C and D, new depsipeptide antibiotics produced by Bacillus polymyxa KT-8: isolation, structure elucidation and biological activity. Kajimura Y, et al.
Jpn J Antibiot 1997 Mar;50(3):220–8
[Staphylococcal utilization of siderophores produced by bacilli of the genus Bacillus] Szarapińska-Kwaszewska J, et al. **Med Dosw Mikrobiol** 1996;48(3-4):123–30 (Eng. Abstr.) **(Pol)**

PATHOGENICITY

A preliminary study on the pathogenicity of Bacillus licheniformis bacteria in immunodepressed mice. Agerholm JS, et al. **APMIS** 1997 Jan;105(1):48–54
Pathogenicity of cilia-associated respiratory (CAR) bacillus isolates for F344, LEW, and SD rats. Schoeb TR, et al.
Vet Pathol 1997 Jul;34(4):263–70

PHYSIOLOGY

The utility of strains of morphological group II Bacillus. Singer S. **Adv Appl Microbiol** 1996;42:219–61 (65 ref.)
Genetic transfer of thermophilic trait from alkalophilic thermophilic Bacillus to E.coli. Shendye A, et al.
Biochem Biophys Res Commun 1996 Oct 14;227(2):386–92
Field evaluation of Bacillus sphaericus, H5a5b and B. thuringiensis var. israelensis, H-14 against the Bancroftian filariasis vector Culex quinquefasciatus, Say in Chennai, India. Kar I, et al. **Indian J Malariol** 1997 Mar;34(1):25–36
Temperature characterization of psychrotrophic and mesophilic Bacillus species from milk. García-Armesto MR, et al. **J Dairy Res** 1997 May;64(2):261–70
Biological fitness of Culex quinquefasciatus (Diptera:Culicidae) susceptible and resistant to Bacillus sphaericus. Rodcharoen J, et al. **J Med Entomol** 1997 Jan; 34(1):5–10
Biological properties and antibiotic susceptibility of Bacillus larvae originated from American foulbrood of honeybee in Japan. Okayama A, et al. **J Vet Med Sci** 1996 May; 58(5):439–41
Biochemical identification of a lipoprotein with maltose-binding activity in the thermoacidophilic Gram-positive bacterium Alicyclobacillus acidocaldarius. Herrmann A, et al. **Res Microbiol** 1996 Nov-Dec; 147(9):733–7
[Outlook for using bacteria of the genus Bacillus for the design of new biopreparations] Sorokulova IB.
Antibiot Khimioter 1996;41(10):13–5 (18 ref.) (Eng. Abstr.) **(Rus)**
[Antimicrobial activity of proteinaceous inclusions in different types of bacteria] Iudina TG, et al.
Dokl Akad Nauk 1996 Jul;349(2):283–6 **(Rus)**

VIROLOGY

[Defective phages of bacilli: cell parasites or chromosomal components] Prozorov AA. **Genetika** 1996 Apr; 32(4):469–81 (67 ref.) (Eng. Abstr.) **(Rus)**

BACILLUS ANTHRACIS

The agents of biological warfare. Vogel P, et al. **JAMA** 1997 Aug 6;278(5):438–9
Anthrax toxin-mediated delivery of a cytotoxic T-cell epitope in vivo. Ballard JD, et al.
Proc Natl Acad Sci U S A 1996 Oct 29;93(22):12531–4
Expression and purification of anthrax toxin protective antigen from Escherichia coli. Sharma M, et al.
Protein Expr Purif 1996 Feb;7(1):33–8

CHEMISTRY

More than one way to make a hole [news] Parker MW.
Nat Struct Biol 1997 Apr;4(4):250–3
[Detection of the functionally active domains in the molecule of the lethal factor of the anthrax exotoxin] Noskov AN, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul-Sep;(3):20–2 (Eng. Abstr.) **(Rus)**
[Detection of the functionally active domains in the molecule of protective antigen of the anthrax exotoxin] Noskov AN, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul-Sep;(3):16–20 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Pyrolysis mass spectrometry studies on Bacillus anthracis, Bacillus cereus and their close relatives. Helyer RJ, et al.
Zentralbl Bakteriol 1997 Jan;285(2):319–28

DRUG EFFECTS

Penicillin resistance in Bacillus anthracis [letter] Lalitha MK, et al. **Lancet** 1997 May 24;349(9064):1522

GENETICS

Characterization of the variable-number tandem repeats in vrrA from different Bacillus anthracis isolates. Jackson PJ, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1400–5
Isolation of a specific chromosomic DNA sequence of Bacillus anthracis and its possible use in diagnosis. Patra G, et al. **FEMS Immunol Med Microbiol** 1996 Oct; 15(4):223–31
AtxA activates the transcription of genes harbored by both Bacillus anthracis virulence plasmids. Guignot J, et al.
FEMS Microbiol Lett 1997 Feb 15;147(2):203–7
Identification and characterization of Bacillus anthracis by multiplex PCR analysis of sequences on plasmids pXO1 and pXO2 and chromosomal DNA. Ramisse V, et al.
FEMS Microbiol Lett 1996 Nov 15;145(1):9–16
Regulation of anthrax toxin activator gene (atxA) expression in Bacillus anthracis: temperature, not CO2/bicarbonate, affects AtxA synthesis. Dai Z, et al. **Infect Immun** 1997 Jul;65(7):2576–82
Differential influence of the two Bacillus anthracis plasmids on regulation of virulence gene expression. Fouet A, et al. **Infect Immun** 1996 Dec;64(12):4928–32
The anthrax toxin activator gene atxA is associated with CO2-enhanced non-toxin gene expression in Bacillus anthracis. Hoffmaster AR, et al. **Infect Immun** 1997 Aug; 65(8):3091–9
A recombinant Bacillus anthracis strain producing the Clostridium perfringens Ib component induces protection against iota toxins. Sirard JC, et al. **Infect Immun** 1997 Jun; 65(6):2029–33
Molecular evolution and diversity in Bacillus anthracis as detected by amplified fragment length polymorphism markers. Keim P, et al. **J Bacteriol** 1997 Feb;179(3):818–24
Molecular characterization of the Bacillus anthracis main S-layer component: evidence that it is the major cell-associated antigen. Mesnage S, et al. **Mol Microbiol** 1997 Mar;23(6):1147–55
[Behavior of heterologous recombinant plasmid pCET in cells of Bacillus anthracis] Pomerantsev AP, et al.
Genetika 1996 Apr;32(4):500–9 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Protective immunity induced by Bacilius anthracis toxin mutant strains. Pezard C, et al. **Adv Exp Med Biol** 1996; 397:69–72 (13 ref.)
Evaluation of the anthraxin skin test for diagnosis of acute and past human anthrax. Shlyakhov E, et al.
Eur J Clin Microbiol Infect Dis 1996 Mar;15(3):242–5
Immunological and functional comparison between Clostridium perfringens iota toxin, C. spiroforme toxin, and anthrax toxins. Perelle S, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):117–21
Characterization of lethal factor binding and cell receptor binding domains of protective antigen of Bacillus anthracis using monoclonal antibodies. Little SF, et al.
Microbiology 1996 Mar;142 (Pt 3):707–15
Anthrax post-vaccinal cell-mediated immunity in humans: kinetics pattern. Shlyakhov E, et al. **Vaccine** 1997 Apr-May;15(6-7):631–6
Anthraxin skin testing: an alternative method for anthrax vaccine and post-vaccinal immunity assessment. Shlyakhov E, et al. **Zentralbl Veterinarmed [B]** 1996 Oct;43(8):483–8
[Delayed hypersensitivity in man after booster anthrax vaccination] Shlyakhov E, et al. **Med Trop (Mars)** 1996; 56(2):148–50 (Eng. Abstr.) **(Fre)**
[Elucidation of functionally active domains in molecules of protective antigen bacillus anthracis's toxin] Noskov AN, et al. **Vestn Ross Akad Med Nauk** 1997;(6):20–4 (Eng. Abstr.) **(Rus)**
[Molecular mechanisms underlying bacillus anthracis infection at early stages and search for novel vaccines] Stepanov AV, et al. **Vestn Ross Akad Med Nauk** 1997; (6):16–20 (Eng. Abstr.) **(Rus)**
[The isolation of the surface antigen from vegetative cells of Bacillus anthracis STI-1 and study of its protective properties] Beznosov MV, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 Jan-Feb;(1):9–13 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Isolation of a specific chromosomic DNA sequence of Bacillus anthracis and its possible use in diagnosis. Patra G, et al. **FEMS Immunol Med Microbiol** 1996 Oct; 15(4):223–31

PATHOGENICITY

Role of macrophage oxidative burst in the action of anthrax lethal toxin. Hanna PC, et al. **Mol Med** 1994 Nov;1(1):7–18
[The pathogenesis of Bacillus anthracis] Makino S, et al.
Nippon Saikingaku Zasshi 1996 Aug;51(3):833–40 (9 ref.) **(Jpn)**

PHYSIOLOGY

Cross-talk to the genes for Bacillus anthracis capsule synthesis by atxA, the gene encoding the trans-activator of anthrax toxin synthesis. Uchida I, et al.
Mol Microbiol 1997 Mar;23(6):1229–40

BACILLUS CALMETTE GUERIN VACCINE see **BCG VACCINE**

BACILLUS CEREUS

Fulminant septicemic syndrome of Bacillus cereus in a leukemic patient. Akiyama N, et al. **Intern Med** 1997 Mar; 36(3):221–6 (15 ref.)
Fulminant liver failure in association with the emetic toxin of Bacillus cereus [see comments] Mahler H, et al.
N Engl J Med 1997 Apr 17;336(16):1142–8. Comment in: N Engl J Med 1997 Apr 17;336(16):1173–4.
Power failure, liver failure [editorial; comment] Schafer DF, et al. **N Engl J Med** 1997 Apr 17;336(16):1173–4. Comment on: N Engl J Med 1997 Apr 17;336(16):1142–8.
[Bacillus cereus pneumonia after thoracic trauma. Case report and review of the literature] Bastian L, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1997 Feb; 32(2):124–9 (28 ref.) (Eng. Abstr.) **(Ger)**
[Meningoencephalitis caused by Bacillus cereus] Marx C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):361–3 **(Ger)**
[Bacteremia associated with implantable device for central venous access caused by Bacillus cereus (letter)] Ramos JM, et al. **Enferm Infecc Microbiol Clin** 1996 May; 14(5):331–2 **(Spa)**

CHEMISTRY

Characterisation of a non-haemolytic enterotoxin complex from Bacillus cereus isolated after a foodborne outbreak. Lund T, et al. **FEMS Microbiol Lett** 1996 Aug 1; 141(2-3):151–6

CLASSIFICATION

Subtyping of Bacillus cereus by total cell protein patterns and arbitrary primer polymerase chain reaction. Matar GM, et al. **Eur J Epidemiol** 1996 Jun;12(3):309–14
Evaluation of serotyping, biotyping, plasmid banding pattern analysis, and HEp-2 vacuolation factor assay in the epidemiological investigation of Bacillus cereus emetic-syndrome food poisoning. Nishikawa Y, et al.
Int J Food Microbiol 1996 Aug;31(1-3):149–59
Randomly amplified polymorphic DNA (RAPD) assay for genomic fingerprinting of Bacillus cereus isolates. Stephan R. **Int J Food Microbiol** 1996 Aug;31(1-3):311–6
Use of pulsed-field gel electrophoresis to investigate a pseudo-outbreak of Bacillus cereus in a pediatric unit. Liu PY, et al. **J Clin Microbiol** 1997 Jun;35(6):1533–5
Pyrolysis mass spectrometry studies on Bacillus anthracis, Bacillus cereus and their close relatives. Helyer RJ, et al.
Zentralbl Bakteriol 1997 Jan;285(2):319–28

CYTOLOGY

[Formation of resting cells in microbial suspensions undergoing autolysis] Muliukin AL, et al.
Mikrobiologiia 1997 Jan-Feb;66(1):42–9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Maltodextrin stimulates growth of Bacillus cereus and synthesis of diarrheal enterotoxin in infant milk formulae. Rowan NJ, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):1182–4
Response of three microbial test systems to pesticides. Ghosh SK, et al. **Bull Environ Contam Toxicol** 1997 Mar; 58(3):482–8
Evidence from whole-sediment, porewater, and elutriate testing in toxicity assessment of contaminated sediments. Liss W, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):140–7
Insertional inactivation of a Tet(K)/Tet(L) like transporter does not eliminate tetracycline resistance in Bacillus cereus. Okstad OA, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):181–6

ENZYMOLOGY

Expression and site-directed mutagenesis of the phosphatidylcholine-preferring phospholipase C of Bacillus cereus: probing the role of the active site Glu146. Martin SF, et al. **Biochemistry** 1996 Oct 1;35(39):12970–7
Vanadate is a potent competitive inhibitor of phospholipase C from Bacillus cereus. Tan CA, et al.
Biochim Biophys Acta 1996 Nov 14;1298(1):58–68
Substrate binding and catalytic mechanism in phospholipase C from Bacillus cereus: a molecular mechanics and molecular dynamics study. da Graça Thrige D, et al.
Biopolymers 1997 Sep;42(3):319–36
Channelling of deoxyribose moiety of exogenous DNA into carbohydrate metabolism: role of deoxyriboaldolase. Sgarrella F, et al.
Comp Biochem Physiol B Biochem Mol Biol 1997 Jun; 117(2):253–7
A germination-specific spore cortex-lytic enzyme from Bacillus cereus spores: cloning and sequencing of the gene and molecular characterization of the enzyme. Moriyama R, et al. **J Bacteriol** 1996 Sep;178(17):5330–2
An alkaline D-stereospecific endopeptidase with beta-lactamase activity from Bacillus cereus. Asano Y, et al. **J Biol Chem** 1996 Nov 22;271(47):30256–62
Synthesis, structure-activity relationships, and the effect of polyethylene glycol on inhibitors of phosphatidylinositol-specific phospholipase C from Bacillus cereus. Ryan M, et al. **J Med Chem** 1996 Oct 25; 39(22):4366–76

BACILLUS CEREUS

The refined crystal structure of Bacillus cereus oligo-1,6-glucosidase at 2.0 A resolution: structural characterization of proline-substitution sites for protein thermostabilization. Watanabe K, et al. **J Mol Biol** 1997 May 30;269(1):142-53

Cloning, overexpression, refolding, and purification of the nonspecific phospholipase C from Bacillus cereus. Tan CA, et al. **Protein Expr Purif** 1997 Aug;10(3):365-72

[Site-specific BcuAI endonuclease from Bacillus cereus A] Korolev SV, et al. **Bioorg Khim** 1996 Jul;22(7):528-31 (Eng. Abstr.) **(Rus)**

GENETICS

Cloning of novel enterotoxin genes from Bacillus cereus and Bacillus thuringiensis. Asano SI, et al.
Appl Environ Microbiol 1997 Mar;63(3):1054-7

The chromosome map of Bacillus thuringiensis subsp. canadensis HD224 is highly similar to that of the Bacillus cereus type strain ATCC 14579. Carlson CR, et al.
FEMS Microbiol Lett 1996 Aug 1;141(2-3):163-7

Variable numbers of rRNA gene operons in Bacillus cereus strains. Johansen T, et al. **FEMS Microbiol Lett** 1996 Mar 1;136(3):325-8

Bacillus cereus may produce two or more diarrheal enterotoxins. Ombui JN, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):245-8

Discrimination between Bacillus cereus and Bacillus thuringiensis using specific DNA probes based on variable regions of 16S rRNA. te Giffel MC, et al.
FEMS Microbiol Lett 1997 Jan 1;146(1):47-51

Molecular cloning and characterization of the genes encoding the L1 and L2 components of hemolysin BL from Bacillus cereus. Ryan PA, et al. **J Bacteriol** 1997 Apr;179(8):2551-6

Diversity and differential distribution of IS231, IS232 and IS240 among Bacillus cereus, Bacillus thuringiensis and Bacillus mycoides. Léonard C, et al. **Microbiology** 1997 Aug;143 (Pt 8):2537-47

A Bacillus cereus member of the SNF2 family. Lindbäck T, et al. **Microbiology** 1997 Jan;143 (Pt 1):171-4

Genotypic and phenotypic analysis of zwittermicin A-producing strains of Bacillus cereus. Raffel SJ, et al. **Microbiology** 1996 Dec;142 (Pt 12):3425-36

GROWTH & DEVELOPMENT

Effects of nisin and temperature on survival, growth, and enterotoxin production characteristics of psychrotrophic Bacillus cereus in beef gravy. Beuchat LR, et al.
Appl Environ Microbiol 1997 May;63(5):1953-8

Effect of pH of the recovery medium on the apparent heat resistance of three strains of Bacillus cereus. González I, et al. **Int J Food Microbiol** 1996 Aug;31(1-3):341-7

Preparation and validation of a growth model for Bacillus cereus: the effects of temperature, pH, sodium chloride and carbon dioxide. Sutherland JP, et al.
Int J Food Microbiol 1996 Jul;30(3):359-72

Application of predictive microbiology to estimate the number of Bacillus cereus in pasteurised milk at the point of consumption. Zwietering MH, et al.
Int J Food Microbiol 1996 Jun;30(1-2):55-70

Effect of storage temperatures and ingredients on growth of Bacillus cereus in coffee creamers. Feijoo SC, et al.
J Dairy Sci 1997 Aug;80(8):1546-53

ISOLATION & PURIFICATION

Rhabdomyolysis associated with septicemia after autologous bone marrow transplantation [letter] Sanfructuoso C, et al.
Bone Marrow Transplant 1997 Jan;19(1):95

Frequency of antimicrobial resistance and plasmid profiles of Bacillus cereus strains isolated from milk. Ombui JN, et al. **East Afr Med J** 1996 Jun;73(6):380-4

Is the exploding powder gas of the propellant from blank cartridges sterile? Rothschild MA, et al.
Forensic Sci Int 1996 Nov 11;83(1):1-13

The occurrence of Bacillus cereus in Danish pasteurized milk. Larsen HD, et al. **Int J Food Microbiol** 1997 Feb; 34(2):179-86

Isolation and characterisation of Bacillus cereus from pasteurised milk in household refrigerators in The Netherlands. Te Giffel MC, et al. **Int J Food Microbiol** 1997 Mar 3;34(3):307-18

Contamination of Bacillus cereus in an apheresis-derived platelet concentrate [letter] Shimoyama R, et al.
J Clin Apheresis 1997;12(2):103

Fulminating bacteremia and pneumonia due to Bacillus cereus [published erratum appears in J Clin Microbiol 1997 May;35(5):1294] Miller JM, et al. **J Clin Microbiol** 1997 Feb;35(2):504-7

Time to B. cereus about hot chocolate. Nelms PK, et al.
Public Health Rep 1997 May-Jun;112(3):240-4

Experimental posttraumatic Bacillus cereus endophthalmitis in a swine model. Efficacy of intravitreal ciprofloxacin, vancomycin, and imipenem. Alfaro DV 3rd, et al.
Retina 1996;16(4):317-23

[The detection of Peptostreptococcus asaccharolyticus and Bacillus cereus in clinical materials from a child who died of sepsis with a fulminant clinical course] Beleva S, et al.
Zh Mikrobiol Epidemiol Immunobiol 1996 Nov-Dec; (6):16-20 (11 ref.) (Eng. Abstr.) **(Rus)**

METABOLISM

Effects of nisin and temperature on survival, growth, and enterotoxin production characteristics of psychrotrophic Bacillus cereus in beef gravy. Beuchat LR, et al.
Appl Environ Microbiol 1997 May;63(5):1953-8

Haem O and a putative cytochrome bo in a mutant of Bacillus cereus impaired in the synthesis of haem A. Del Arenal IP, et al. **Arch Microbiol** 1997 Jan;167(1):24-31

Evidence for a further enterotoxin complex produced by Bacillus cereus. Granum PE, et al.
FEMS Microbiol Lett 1996 Aug 1;141(2-3):145-9

Mouse lethal activity of a HEp-2 vacuolation factor, cereulide, produced by Bacillus cereus isolated from vomiting-type food poisoning. Shinagawa K, et al.
J Vet Med Sci 1996 Oct;58(10):1027-9

[The detection of toxinogenic Bacillus cereus strains] Seidel KE, et al. **Zentralbl Veterinarmed [B]** 1996 Sep;43(7):421-8 (Eng. Abstr.) **(Ger)**

[The anticomplement activity of the commercial strain of Bacillus cereus IP 5832 and of enterobacteria when cocultured] Brudastov IuA, et al.
Zh Mikrobiol Epidemiol Immunobiol 1996 May-Jun; (3):91-3 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Is the exploding powder gas of the propellant from blank cartridges sterile? Rothschild MA, et al.
Forensic Sci Int 1996 Nov 11;83(1):1-13

Production of diarrheal toxin by selected strains of Bacillus cereus. Fermanian C, et al. **Int J Food Microbiol** 1996 Jul; 30(3):345-58

Tripartite hemolysin BL from Bacillus cereus. Hemolytic analysis of component interactions and a model for its characteristic paradoxical zone phenomenon. Beecher DJ, et al. **J Biol Chem** 1997 Jan 3;272(1):233-9

[Exotoxins of Bacillus cereus associated with food poisoning] Agata N, et al. **Nippon Saikingaku Zasshi** 1996 Oct; 51(4):993-1002 (38 ref.) **(Jpn)**

PHYSIOLOGY

[Oral long-term administration of probiotic B. cereus--an alternative for the the prevention of enterotoxemia?] Seifert HS, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct; 103(10):386-9 (37 ref.) (Eng. Abstr.) **(Ger)**

[Formation of a resting form of Bacillus cereus and Micrococcus luteus] Muliukin AL, et al. **Mikrobiologiia** 1996 Nov-Dec;65(6):782-9 (Eng. Abstr.) **(Rus)**

VIROLOGY

Three Bacillus cereus bacteriophage endolysins are unrelated but reveal high homology to cell wall hydrolases from different bacilli. Loessner MJ, et al. **J Bacteriol** 1997 May; 179(9):2845-51

BACILLUS MEGATERIUM

CHEMISTRY

[Poly-(3-hydroxybutyrate) granules in Bacillus megaterium. Isolation and analysis of associated proteins] Vázquez GJ, et al. **Rev Argent Microbiol** 1996 Jul-Sep;28(3):118-22 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Induction and carbon catabolite repression in the biosynthesis of beta-amylase by Bacillus megaterium B6. Ray RR, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):223-30

Activation of the intracellular Ca(2+)-dependent serine protease ISP1 of bacillus megaterium by purification or by high Ca2+ concentrations. Váchová L.
Biochem Mol Biol Int 1996 Nov;40(5):947-54

A single mutation in cytochrome P450 BM3 changes substrate orientation in a catalytic intermediate and the regiospecificity of hydroxylation. Oliver CF, et al.
Biochemistry 1997 Feb 18;36(7):1567-72

Steady-state and picosecond-time-resolved fluorescence studies on the recombinant heme domain of Bacillus megaterium cytochrome P-450. Khan KK, et al.
Eur J Biochem 1997 Mar 1;244(2):361-70

Production and characterization of xylanase from a beta-amylolytic strain of Bacillus megaterium. Ray RR, et al. **Microbios** 1997;90(362):7-16

GENETICS

A single mutation in cytochrome P450 BM3 changes substrate orientation in a catalytic intermediate and the regiospecificity of hydroxylation. Oliver CF, et al.
Biochemistry 1997 Feb 18;36(7):1567-72

Analysis of CcpA mutations defective in carbon catabolite repression in Bacillus megaterium. Kraus A, et al.
FEMS Microbiol Lett 1997 Aug 1;153(1):221-6

Phenobarbital-dependent protein binding to Barbie box-like sequences in the coding region of cytochrome P450BM-3 gene from Bacillus megaterium. Gaidamakova EK, et al. **Gene** 1996 Dec 12;183(1-2):97-101

A 53-base-pair inverted repeat negatively regulates expression of the adjacent and divergently oriented cytochrome P450($BM_3$1) gene and its regulatory gene, bm1P1, in Bacillus megaterium. Shaw GC, et al.
J Bacteriol 1997 Jan;179(1):280-3

Cloning and sequencing of the spore germination gene of Bacillus megaterium ATCC 12872: similarities to the NaH-antiporter gene of Enterococcus hirae. Tani K, et al. **Microbiol Immunol** 1996;40(2):99-105

Regulation of expression, genetic organization and substrate specificity of xylose uptake in Bacillus megaterium. Schmiedel D, et al. **Mol Microbiol** 1997 Mar;23(5):1053-62

GROWTH & DEVELOPMENT

Survival of Bacillus megaterium strains in water. Palmada FM, et al. **Rev Argent Microbiol** 1996 Oct-Dec;28(4):170-4

IMMUNOLOGY

[Antibodies against Bacillus megaterium H glycoprotein in patients with oncological and nononcological pathology of gastro-intestinal tract] Autenshlius AI, et al.
Biull Eksp Biol Med 1994 May;117(5):520-2 **(Rus)**

METABOLISM

Reconstitution of the fatty acid hydroxylase activity of cytochrome P450BM-3 utilizing its functional domains. Sevrioukova I, et al. **Arch Biochem Biophys** 1997 Apr 15; 340(2):231-8

Asporogenic Bacillus megaterium mutant 27-36 degrades intrinsically short-lived proteins but fails to convert most of other proteins to a short-lived fraction. Chaloupka J, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1185-92

CbiX: a novel metal-binding protein involved in sirohaem biosynthesis in Bacillus megaterium. Beck R, et al.
Biochem Soc Trans 1997 Feb;25(1):77S

Transbilayer movement of fluorescent phospholipids in Bacillus megaterium membrane vesicles. Hrafnsdóttir S, et al. **Biochemistry** 1997 Apr 22;36(16):4969-78

Cooperative and non-cooperative DNA binding modes of catabolite control protein CcpA from Bacillus megaterium result from sensing two different signals. Gösseringer R, et al. **J Mol Biol** 1997 Mar 7;266(4):665-76

Regulation of expression, genetic organization and substrate specificity of xylose uptake in Bacillus megaterium. Schmiedel D, et al. **Mol Microbiol** 1997 Mar;23(5):1053-62

BACILLUS PHAGES

CHEMISTRY

Phage phi29 protein p6 is in a monomer-dimer equilibrium that shifts to higher association states at the millimolar concentrations found in vivo. Abril AM, et al.
Biochemistry 1997 Sep 30;36(39):11901-8

Structural features of phi29 single-stranded DNA-binding protein. I. Environment of tyrosines in terms of complex formation with DNA. Soengas MS, et al. **J Biol Chem** 1997 Jan 3;272(1):295-302

Structural features of phi29 single-stranded DNA-binding protein. II. Global conformation of phi29 single-stranded DNA-binding protein and the effects of complex formation on the protein and the single-stranded DNA. Soengas MS, et al. **J Biol Chem** 1997 Jan 3;272(1):303-10

DRUG EFFECTS

Magnesium-induced conformational change of packaging RNA for procapsid recognition and binding during phage phi29 DNA encapsidation. Chen C, et al. **J Virol** 1997 Jan; 71(1):495-500

ENZYMOLOGY

Bacillus subtilis bacteriophage SPP1 terminase has a dual activity: it is required for the packaging initiation and represses its own synthesis. Chai S, et al. **Gene** 1997 Jan 15;184(2):251-6

Site-directed mutagenesis and characterization of uracil-DNA glycosylase inhibitor protein. Role of specific carboxylic amino acids in complex formation with Escherichia coli uracil-DNA glycosylase. Lundquist AJ, et al. **J Biol Chem** 1997 Aug 22;272(34):21408-19

ø29 DNA polymerase residue Lys383, invariant at motif B of DNA-dependent polymerases, is involved in dNTP binding. Saturno J, et al. **J Mol Biol** 1997 Jun 13; 269(3):313-25

GENETICS

Cloning and characterization of transcriptional promoters from Bacillus subtilis phage 2C. Daxhelet G, et al.
Can J Microbiol 1996 Sep;42(9):919-26

Protein-primed DNA replication: a transition between two modes of priming by a unique DNA polymerase. Mendez J, et al. **EMBO J** 1997 May 1;16(9):2519-27

In vitro and in vivo transcription from a computer predicted promoter. Sázelová P, et al. **Gene** 1997 Mar 18;187(2):281-7

Three Bacillus cereus bacteriophage endolysins are unrelated but reveal high homology to cell wall hydrolases from different bacilli. Loessner MJ, et al. **J Bacteriol** 1997 May; 179(9):2845-51

Activation of replication origins in phi29-related phages requires the recognition of initiation proteins to specific nucleoprotein complexes. Freire R, et al. **J Biol Chem** 1996 Nov 29;271(48):31000-7

Head morphogenesis genes of the Bacillus subtilis bacteriophage SPP1. Becker B, et al. **J Mol Biol** 1997 May 23;268(5):822-39

Initiation of bacteriophage phi29 DNA replication in vivo: assembly of a membrane-associated multiprotein complex. Bravo A, et al. **J Mol Biol** 1997 May 30;269(1):102–12

The bacteriophage phi29 packaging proteins supercoil the DNA ends. Grimes S, et al. **J Mol Biol** 1997 Mar 14; 266(5):901–14

Functional characterization of the genes coding for the terminal protein and DNA polymerase from bacteriophage GA–1. Evidence for a sliding-back mechanism during protein-primed GA–1 DNA replication. Illana B, et al. **J Mol Biol** 1996 Dec 6;264(3):453–64

The replisome organizer (G38P) of Bacillus subtilis bacteriophage SPP1 forms specialized nucleoprotein complexes with two discrete distant regions of the SPP1 genome. Missich R, et al. **J Mol Biol** 1997 Jul 4; 270(1):50–64

Transcriptional activator of phage phi 29 late promoter: mapping of residues involved in interaction with RNA polymerase and in DNA bending. Mencía M, et al. **Mol Microbiol** 1996 Apr;20(2):273–82

In vitro evolution of terminal protein–containing genomes. Esteban JA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2921–6

Protein p4 represses phage phi 29 A2c promoter by interacting with the alpha subunit of Bacillus subtilis RNA polymerase. Monsalve M, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8913–8

Boundary of pRNA functional domains and minimum pRNA sequence requirement for specific connector binding and DNA packaging of phage phi29. Garver K, et al. **RNA** 1997 Sep;3(9):1068–79

Use of circular permutation to assess six bulges and four loops of DNA–packaging pRNA of bacteriophage phi29. Zhang C, et al. **RNA** 1997 Mar;3(3):315–23

[Cloning and analysis of prophage PBSX repressor gene from Bacillus subtilis] Li N, et al. **I Chuan Hsueh Pao** 1995; 22(6):478–86 (Eng. Abstr.) **(Chi)**

[Divergence between "early" genes from defective phages of various strains of soil bacilli, close to Bacillus subtilis 168] Lotareva OV, et al. **Genetika** 1997 Jun;33(6):752–6 (Eng. Abstr.) **(Rus)**

METABOLISM

Sequential headful packaging and fate of the cleaved DNA ends in bacteriophage SPP1. Tavares P, et al. **J Mol Biol** 1996 Dec 20;264(5):954–67

The interaction of DNA with bacteriophage phi 29 connector: a study by AFM and TEM. Valle M, et al. **J Struct Biol** 1996 May-Jun;116(3):390–8

PHYSIOLOGY

Sequential action of six virus-encoded DNA–packaging RNAs during phage phi29 genomic DNA translocation. Chen C, et al. **J Virol** 1997 May;71(5):3864–71

Approaches to determine stoichiometry of viral assembly components. Trottier M, et al. **J Virol** 1997 Jan; 71(1):487–94

ULTRASTRUCTURE

The bacteriophage phi29 head-tail connector imaged at high resolution with the atomic force microscope in buffer solution. Müller DJ, et al. **EMBO J** 1997 May 15; 16(10):2547–53

BACILLUS STEAROTHERMOPHILUS

Autosterilization of biodegradable implants by injection molding process. König C, et al. **J Biomed Mater Res** 1997 Summer;38(2):115–9

CHEMISTRY

Structures of prokaryotic ribosomal proteins: implications for RNA binding and evolution. Ramakrishnan V, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11–12):979–86 (30 ref.)

Structure and dynamics of the DNA binding protein HU from Bacillus stearothermophilus by NMR spectroscopy. Boelens R, et al. **Biopolymers** 1996;40(5):553–9

Evidence that the N–terminal part of the S–layer protein from Bacillus stearothermophilus PV72/p2 recognizes a secondary cell wall polymer. Ries W, et al. **J Bacteriol** 1997 Jun;179(12):3892–8

An exceptionally stable helix from the ribosomal protein L9: implications for protein folding and stability. Kuhlman B, et al. **J Mol Biol** 1997 Aug 1;270(5):640–7

The crystal structure of ribosomal protein L14 reveals an important organizational component of the translational apparatus. Davies C, et al. **Structure** 1996 Jan 15;4(1):55–66

Structural evidence for specific S8–RNA and S8–protein interactions within the 30S ribosomal subunit: ribosomal protein S8 from Bacillus stearothermophilus at 1.9 A resolution. Davies C, et al. **Structure** 1996 Sep 15; 4(9):1093–104

DRUG EFFECTS

Bacillus stearothermophilus as a model to evaluate membrane toxicity of a lipophilic environmental pollutant (DDT). Donato MM, et al. **Arch Environ Contam Toxicol** 1997 Aug; 33(2):109–16

Biological indicators for low temperature steam and formaldehyde sterilization: investigation of the effect of change in temperature and formaldehyde concentration on spores of Bacillus stearothermophilus NCIMB 8224. Wright AM, et al. **J Appl Bacteriol** 1996 Mar;80(3):259–65

ENZYMOLOGY

Cloning and overexpression of thermostable D–hydantoinase from thermophile in E. coli and its application to the synthesis of optically active D–amino acids. Lee DC, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:401–5

Purification and characterization of thermostable D–hydantoinase from thermophilic Bacillus stearothermophilus SD–1. Lee SG, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2–3):251–66

Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from Bacillus stearothermophilus, cloning of the corresponding gene, aspC, and application in a coupled transaminase process. Bartsch K, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3794–9

Thermostable cytochrome P450 steroid hydroxylase from a thermophilic bacillus strain. Sideso O, et al. **Biochem Soc Trans** 1997 Feb;25(1):17S

Effects of NAD+ binding on the luminescence of tryptophans 84 and 310 of glyceraldehyde–3–phosphate dehydrogenase from Bacillus stearothermophilus. Gabellieri E, et al. **Biochemistry** 1996 Sep 24; 35(38):12549–59

Is the structure of the N–domain of phosphoglycerate kinase affected by isolation from the intact molecule? Hosszu LL, et al. **Biochemistry** 1997 Jan 14;36(2):333–40

Competitive interaction of component enzymes with the peripheral subunit–binding domain of the pyruvate dehydrogenase multienzyme complex of Bacillus stearothermophilus: kinetic analysis using surface plasmon resonance detection. Lessard IA, et al. **Biochemistry** 1996 Dec 24;35(51):16863–70

Domain behavior during the folding of a thermostable phosphoglycerate kinase. Parker MJ, et al. **Biochemistry** 1996 Dec 10;35(49):15740–52

Determination of the structure of alanine racemase from Bacillus stearothermophilus at 1.9–A resolution. Shaw JP, et al. **Biochemistry** 1997 Feb 11;36(6):1329–42

Thermostable aminoacylase from Bacillus stearothermophilus: significance of the metal center for catalysis and protein stability. Weiss HM, et al. **Biol Chem Hoppe Seyler** 1995 Nov;376(11):643–9

Properties of diacetyl (acetoin) reductase from Bacillus stearothermophilus. Giovannini PP, et al. **Bioorg Med Chem** 1996 Aug;4(8):1197–201

Structure of the cyclic glucan produced from amylopectin by Bacillus stearothermophilus branching enzyme. Takata H, et al. **Carbohydr Res** 1996 Dec 13;295:91–101

Refolding and reassociation of glycerol dehydrogenase from Bacillus stearothermophilus in the absence and presence of GroEL. Krauss O, et al. **Eur J Biochem** 1996 Oct 15; 241(2):538–45

The catalytic domain of dihydrolipoyl acetyltransferase from the pyruvate dehydrogenase multienzyme complex of Bacillus stearothermophilus. Expression, purification and reversible denaturation. Allen MD, et al. **FEBS Lett** 1997 Aug 18;413(2):339–43

Cytochrome bd–type quinol oxidase in a mutant of Bacillus stearothermophilus deficient in caa3–type cytochrome c oxidase. Sakamoto J, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2–3):151–8

Primary structure and strand specificity of BstF5I–1 DNA methyltransferase which recognizes 5'-GGATG–3'. Degtyarev SKh, et al. **Gene** 1997 Mar 18;187(2):217–9

Cloning and nucleotide sequence of Bacillus stearothermophilus pyruvate carboxylase. Kondo H, et al. **Gene** 1997 May 20;191(1):47–50

Overexpression of BsoBI restriction endonuclease in E. coli, purification of the recombinant BsoBI, and identification of catalytic residues of BsoBI by random mutagenesis. Ruan H, et al. **Gene** 1997 Mar 25;188(1):35–9

Evidence that an N–terminal S–layer protein fragment triggers the release of a cell–associated high–molecular–weight amylase in Bacillus stearothermophilus ATCC 12980. Egelseer EM, et al. **J Bacteriol** 1996 Oct;178(19):5602–9

Lysyl–tRNA synthetase from Bacillus stearothermophilus. Formation and isolation of an enzyme–lysyladenylate complex and its analogue. Takita T, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):244–50

Thermal conversion from low– to high–activity forms of catalase I from Bacillus stearothermophilus. Kobayashi C, et al. **J Biol Chem** 1997 Sep 12;272(37):23011–6

A role of the amino acid residue located on the fifth position before the first aspartate–rich motif of farnesyl diphosphate synthase on determination of the final product. Ohnuma Si, et al. **J Biol Chem** 1996 Nov 29;271(48):30748–54

A crystallographic comparison between mutated glyceraldehyde–3–phosphate dehydrogenases from Bacillus stearothermophilus complexed with either NAD+ or NADP+. Didierjean C, et al. **J Mol Biol** 1997 May 16; 268(4):739–59

Primary structure, sequence analysis, and expression of the thermostable D–hydantoinase from Bacillus stearothermophilus SD1. Kim GJ, et al. **Mol Gen Genet** 1997 Jun;255(2):152–6

Crystal structure of a thermostable Bacillus DNA polymerase I large fragment at 2.1 A resolution. Kiefer JR, et al. **Structure** 1997 Jan 15;5(1):95–108

Protein–protein interactions in the pyruvate dehydrogenase multienzyme complex: dihydrolipoamide dehydrogenase complexed with the binding domain of dihydrolipoamide acetyltransferase. Mande SS, et al. **Structure** 1996 Mar 15; 4(3):277–86

[Respiratory chain of thermophilic bacilli] Sone N, et al. **Seikagaku** 1997 May;69(5):328–35 (22 ref.) **(Jpn)**

[N.BstSE—a site–specific nickase from Bacillus stearothermophilus SE–589] Abdurashitov MA, et al. **Mol Biol (Mosk)** 1996 Nov-Dec;30(6):1261–7 **(Rus)**

GENETICS

Two amino acid amidohydrolase genes encoding L–stereospecific carbamoylase and aminoacylase are organized in a common operon in Bacillus stearothermophilus. Batisse N, et al. **Appl Environ Microbiol** 1997 Feb;63(2):763–6

Translational regulation of infC operon in Bacillus stearothermophilus. Pediconi D, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11–12):1071–8 (25 ref.)

Cytochrome bd–type quinol oxidase in a mutant of Bacillus stearothermophilus deficient in caa3–type cytochrome c oxidase. Sakamoto J, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2–3):151–8

Cloning and sequencing of the hrcA gene of Bacillus stearothermophilus. Mogk A, et al. **Gene** 1997 Jul 18; 194(1):133–6

Cloning, expression, and isolation of the mannitol transport protein from the thermophilic bacterium Bacillus stearothermophilus. Henstra SA, et al. **J Bacteriol** 1996 Oct; 178(19):5586–91

Molecular characterization of the Bacillus stearothermophilus PV72 S–layer gene sbsB induced by oxidative stress. Kuen B, et al. **J Bacteriol** 1997 Mar;179(5):1664–70

Characterization of a gene cluster for glycogen biosynthesis and a heterotetrameric ADP–glucose pyrophosphorylase from Bacillus stearothermophilus. Takata H, et al. **J Bacteriol** 1997 Aug;179(15):4689–98

Primary structure, sequence analysis, and expression of the thermostable D–hydantoinase from Bacillus stearothermophilus SD1. Kim GJ, et al. **Mol Gen Genet** 1997 Jun;255(2):152–6

Cloning and sequence comparison of AvaI and BsoBI restriction–modification systems. Ruan H, et al. **Mol Gen Genet** 1996 Oct 28;252(6):695–9

The arginine operon of Bacillus stearothermophilus: characterization of the control region and its interaction with the heterologous B. subtilis arginine repressor. Savchenko A, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):69–78

Analysis of structural determinants of the stability of thermolysin–like proteases by molecular modelling and site–directed mutagenesis. Veltman OR, et al. **Protein Eng** 1996 Dec;9(12):1181–9

[Study on transposition behavior of IS5376 in Bacillus stearothermophilus] Xu K, et al. **I Chuan Hsueh Pao** 1997 Apr;24(2):178–82 (Eng. Abstr.) **(Chi)**

GROWTH & DEVELOPMENT

The use of two or more microorganisms versus one microorganism in the carrier materials for biological indicators. Shintani H. **Biomed Instrum Technol** 1997 Jul-Aug;31(4):387–90

Mathematical model for the combined effect of temperature and pH on the thermal resistance of Bacillus stearothermophilus and Clostridium sporogenes spores. Fernández PS, et al. **Int J Food Microbiol** 1996 Sep; 32(1–2):225–33

[The effect of growth media on recovery of test microorganisms after exposure to saturated steam under pressure] Krzywicka H, et al. **Rocz Panstw Zakl Hig** 1996; 47(4):439–44 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Immunomagnetic detection of Bacillus stearothermophilus spores in food and environmental samples. Blake MR, et al. **Appl Environ Microbiol** 1997 May;63(5):1643–6

METABOLISM

Translational initiation factor IF2 from Bacillus stearothermophilus: a spectroscopic and microcalorimetric study of the C–domain. Misselwitz R, et al. **Biochemistry** 1997 Mar 18;36(11):3170–8

Contribution of a salt bridge to the thermostability of DNA binding protein HU from Bacillus stearothermophilus determined by site–directed mutagenesis. Kawamura S, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):448–55

PHYSIOLOGY

Thermal resistance of Bacillus stearothermophilus spores on strips previously treated with calcium. Penna TC, et al. **PDA J Pharm Sci Technol** 1996 Jul–Aug;50(4):227–37

[Factors modulating the sensitivity of bacterial spores to steam under pressure] Krzywicka H, et al. **Rocz Panstw Zakl Hig** 1996;47(3):325–32 (Eng. Abstr.) **(Pol)**

BACILLUS SUBTILIS

Production of crystallizable human chymase from a Bacillus subtilis system. McGrath ME, et al. **FEBS Lett** 1997 Aug 25;413(3):486–8

[The efficacy of the new bacterial preparation biosporin in treating acute intestinal infections] Gracheva NM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):75–7 (Eng. Abstr.) **(Rus)**

CHEMISTRY

High–resolution NMR structure and backbone dynamics of the Bacillus subtilis response regulator, Spo0F: implications for phosphorylation and molecular recognition. Feher VA, et al. **Biochemistry** 1997 Aug 19;36(33):10015–25

Structural identification of a major mitogenic lipid derived from Bacillus subtilis as a glycerophosphoglycolipid. Li Y, et al. **Biochemistry** 1996 Dec 17;35(50):16299–304

First steps from a two–dimensional protein index towards a response–regulation map for Bacillus subtilis. Antelmann H, et al. **Electrophoresis** 1997 Aug;18(8):1451–63

Crystal structure of a new RNA–binding domain from the antiterminator protein SacY of Bacillus subtilis. van Tilbeurgh H, et al. **EMBO J** 1997 Aug 15;16(16):5030–6

Characterization of csgA, a new member of the forespore–expressed sigmaG–regulon from Bacillus subtilis. Shcheptov M, et al. **Gene** 1997 Jan 3;184(1):133–40

Three sites of contact between the Bacillus subtilis transcription factor sigmaF and its antisigma factor SpoIIAB. Decatur AL, et al. **Genes Dev** 1996 Sep 15; 10(18):2348–58

Analysis of the peptidoglycan structure of Bacillus subtilis endospores. Popham DL, et al. **J Bacteriol** 1996 Nov; 178(22):6451–8

Copurification of ribosomal protein S2 and DNA–dependent RNA polymerase from heat–shocked cells of Bacillus subtilis. Büttner K, et al. **J Basic Microbiol** 1997;37(1):3–9

Membrane topology analysis of the Bacillus subtilis BofA protein involved in pro–sigma K processing. Varcamonti M, et al. **Microbiology** 1997 Apr;143 (Pt 4):1053–8

Purification and characterization of the flagellar hook–basal body complex of Bacillus subtilis. Kubori T, et al. **Mol Microbiol** 1997 Apr;24(2):399–410

Contacts between Bacillus subtilis catabolite regulatory protein CcpA and amyO target site. Kim JH, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3490–6

Crystallization of the RNA–binding domain of the transcriptional antiterminator protein SacY from Bacillus subtilis. Manival X, et al. **Proteins** 1997 Aug;28(4):590–4

CLASSIFICATION

Bacillus vallismortis sp. nov., a close relative of Bacillus subtilis, isolated from soil in Death Valley, California. Roberts MS, et al. **Int J Syst Bacteriol** 1996 Apr;46(2):470–5

CYTOLOGY

The mechanism of bacterial asymmetric cell division. Way JC. **Bioessays** 1996 Feb;18(2):99–101 (9 ref.)

The divIVA minicell locus of Bacillus subtilis. Cha JH, et al. **J Bacteriol** 1997 Mar;179(5):1671–83

Physics, biology meet in self–assembling bacterial fibers [news] Potera C. **Science** 1997 Jun 6;276(5318):1499–500

DRUG EFFECTS

Comparative sporicidal effect of liquid chemical germicides on three medical devices contaminated with spores of Bacillus subtilis. Sagripanti JL, et al. **Am J Infect Control** 1996 Oct;24(5):364–71

Permeability of dormant spores of Bacillus subtilis to gramicidin S. Tanimoto Y, et al. **FEMS Microbiol Lett** 1996 Feb 15;136(2):151–6

Mutations affecting substrate specificity of the Bacillus subtilis multidrug transporter Bmr. Klyachko KA, et al. **J Bacteriol** 1997 Apr;179(7):2189–93

Establishment of a protocol for testing antimicrobial activity in southern African macroalgae. Vlachos V, et al. **Microbios** 1996;88(355):115–23

Phenolic and antibacterial constituents of Vahlia capensis [letter] Majinda RR, et al. **Planta Med** 1997 Jun; 63(3):268–70

[Effect of minimal bactericidal dose of chlorhexidine and other antiseptics on Bacillus subtilis 720 ribosomes] Lishchenko NN, et al. **Biull Eksp Biol Med** 1996 May; 121(5):551–4 **(Rus)**

ENZYMOLOGY

The development of a Bacillus subtilis 168 culture condition for enhanced and accelerated beta–mannanase production. el–Helow ER, et al. **Acta Microbiol Immunol Hung** 1996; 43(4):289–99

Structural and catalytic properties of CMP kinase from Bacillus subtilis: a comparative analysis with the homologous enzyme from Escherichia coli. Schultz CP, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):144–53

Adsorption of Bacillus subtilis endo–beta–1,4–glucanase to cellulosic materials. Kim H, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):665–77

Identification of two poly(A) polymerases in Bacillus subtilis. Sarkar B, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):1045–50

Evidence for the shikimate–3–phosphate interacting site in the N–terminal domain of 5–enolpyruvyl shikimate–3–phosphate synthase of Bacillus subtilis. Selvapandiyan A, et al. **Biochem Mol Biol Int** 1996 Oct; 40(3):603–10

Protein phosphorylation chain of a Bacillus subtilis fructose–specific phosphotransferase system and its participation in regulation of the expression of the lev operon. Charrier V, et al. **Biochemistry** 1997 Feb 4; 36(5):1163–72

Mechanism of the synergistic end–product regulation of Bacillus subtilis glutamine phosphoribosylpyrophosphate amidotransferase by nucleotides. Chen S, et al. **Biochemistry** 1997 Sep 2;36(35):10718–26

Recognition of the T stem–loop of a pre–tRNA substrate by the ribozyme from Bacillus subtilis ribonuclease P. Loria A, et al. **Biochemistry** 1997 May 27;36(21):6317–25

Thiolsubtilisin as an instrument for peptide synthesis. Preparation and properties. Kolobanova SV, et al. **Biochemistry (Mosc)** 1997 Mar;62(3):329–36

Isolated Bacillus subtilis HemY has coproporphyrinogen III to coproporphyrin III oxidase activity. Hansson M, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):97–104

Aminoacyl–tRNA synthetase gene regulation in Bacillus subtilis. Condon C, et al. **Biochimie** 1996;78(6):381–9 (54 ref.)

Crystal structure of NH3–dependent NAD+ synthetase from Bacillus subtilis. Rizzi M, et al. **EMBO J** 1996 Oct 1; 15(19):5125–34

An internal FK506–binding domain is the catalytic core of the prolyl isomerase activity associated with the Bacillus subtilis trigger factor. Göthel SF, et al. **Eur J Biochem** 1997 Feb 15;244(1):59–65

The fructose transporter of Bacillus subtilis encoded by the lev operon: backbone assignment and secondary structure of the IIB(Lev) subunit. Seip S, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):306–14

Restriction of substrate specificity of subtilisin E by introduction of a side chain into a conserved glycine residue. Takagi H, et al. **FEBS Lett** 1996 Oct 21; 395(2–3):127–32

Impaired oxidative stress resistance of Bacillus subtilis sigB mutants and the role of katA and katE. Engelmann S, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):63–9

Characterization of iturin synthetase in the wild–type Bacillus subtilis strain producing iturin and in an iturin deficient mutant. Feignier C, et al. **FEMS Microbiol Lett** 1996 Feb 15;136(2):117–22

Some properties of inorganic pyrophosphatase from Bacillus subtilis. Shimizu T, et al. **Int J Biochem Cell Biol** 1997 Feb;29(2):303–10

Synthesis of the osmoprotectant glycine betaine in Bacillus subtilis: characterization of the gbsAB genes. Boch J, et al. **J Bacteriol** 1996 Sep;178(17):5121–9

Effects of lysine–to–glycine mutations in the ATP–binding consensus sequences in the AddA and AddB subunits on the Bacillus subtilis AddAB enzyme activities. Haijema BJ, et al. **J Bacteriol** 1996 Sep;178(17):5130–7

Deletion of the Bacillus subtilis isocitrate dehydrogenase gene causes a block at stage I of sporulation. Jin S, et al. **J Bacteriol** 1997 Aug;179(15):4725–32

Evidence for a multimeric subtilin synthetase complex. Kiesau P, et al. **J Bacteriol** 1997 Mar;179(5):1475–81

The levanase operon of Bacillus subtilis expressed in Escherichia coli can substitute for the mannose permease in mannose uptake and bacteriophage lambda infection. Martin–Verstraete I, et al. **J Bacteriol** 1996 Dec; 178(24):7112–9

The SpoIIAA protein of Bacillus subtilis has GTP–binding properties. Najafi SM, et al. **J Bacteriol** 1996 Nov; 178(22):6632–4

Biosynthesis of riboflavin: characterization of the bifunctional deaminase–reductase of Escherichia coli and Bacillus subtilis. Richter G, et al. **J Bacteriol** 1997 Mar; 179(6):2022–8

Significance of HPr in catabolite repression of alpha–amylase. Voskuil MI, et al. **J Bacteriol** 1996 Dec;178(23):7014–5

Preparation of general proteinase substrates using 3,5–dinitrosalicylaldehyde. Gallegos NG, et al. **J Biochem Biophys Methods** 1996 Oct 15;33(1):31–41

Identification of lysine 74 in the pyruvate binding site of alanine dehydrogenase from Bacillus subtilis. Chemical modification with 2,4,6–trinitrobenzenesulfonic acid, n–succinimidyl 3–(2–pyridyldithio)propionate, and 5'–(p–(fluorosulfonyl)benzoyl)adenosine. Delforge D, et al. **J Biol Chem** 1997 Jan 24;272(4):2276–84

Identification of His141 in the active site of Bacillus subtilis adenylosuccinate lyase by affinity labeling with 6–(4–bromo–2,3–dioxobutyl)thioadenosine 5'–monophosphate. Lee TT, et al. **J Biol Chem** 1997 Jan 3;272(1):458–65

RNA polymerase sigma factors of Bacillus subtilis: purification and characterization. Tatti KM, et al. **Methods Enzymol** 1996;273:149–62 (20 ref.)

Peptidoglycan hydrolases of Bacillus subtilis 168. Smith TJ, et al. **Microb Drug Resist** 1996 Spring;2(1):113–8 (40 ref.)

Is the ribulose monophosphate pathway widely distributed in bacteria? Reizer J, et al. **Microbiology** 1997 Aug;143 (Pt 8):2519–20

The Bacillus subtilis genes for ribonucleotide reductase are similar to the genes for the second class I NrdE/NrdF enzymes of Enterobacteriaceae. Scotti C, et al. **Microbiology** 1996 Nov;142 (Pt 11):2995–3004

Isolation and comparative analysis of diaminopimelate decarboxylase from Streptococcus bovis and Bacillus subtilis. Kalcheva EO, et al. **Mol Gen Mikrobiol Virusol** 1997;(1):34–7

Structural relationship between a bacterial developmental protein and eukaryotic PP2C protein phosphatases. Adler E, et al. **Mol Microbiol** 1997 Jan;23(1):57–62

A dual role for the Bacillus subtilis glpD leader and the GlpP protein in the regulated expression of glpD: antitermination and control of mRNA stability. Glatz E, et al. **Mol Microbiol** 1996 Jan;19(2):319–28

A conserved helicase motif of the AddA subunit of the Bacillus subtilis ATP–dependent nuclease (AddAB) is essential for DNA repair and recombination. Kooistra J, et al. **Mol Microbiol** 1997 Jan;23(1):137–49

Polynucleotide phosphorylase is necessary for competence development in Bacillus subtilis. Luttinger A, et al. **Mol Microbiol** 1996 Jan;19(2):343–56

In vitro processing activity of Bacillus subtilis polynucleotide phosphorylase. Mitra S, et al. **Mol Microbiol** 1996 Jan; 19(2):329–42

Directed evolution of subtilisin E in Bacillus subtilis to enhance total activity in aqueous dimethylformamide [published erratum appears in Protein Eng 1996 Aug;9(8):719] You L, et al. **Protein Eng** 1996 Jan;9(1):77–83

A stable intermediate in the thermal unfolding process of a chimeric 3–isopropylmalate dehydrogenase between a thermophilic and a mesophilic enzymes. Hayashi–Iwasaki Y, et al. **Protein Sci** 1996 Mar;5(3):511–6

Overexpression of Bacillus subtilis phosphoribosylpyrophosphate synthetase and crystallization and preliminary X–ray characterization of the free enzyme and its substrate–effector complexes. Bentsen AK, et al. **Proteins** 1996 Feb;24(2):238–46

Crystallization of NAD+ synthetase from Bacillus subtilis. Rizzi M, et al. **Proteins** 1996 Oct;26(2):236–8

Purification and preliminary crystallographic studies on the sporulation response regulatory phosphotransferase protein, Spo0B, from Bacillus subtilis. Zhou XZ, et al. **Proteins** 1997 Apr;27(4):597–600

The targeting of Bacillus subtilis levansucrase in yeast is correlated to both the hydrophobicity of the signal peptide and the net charge of the N–terminus mature part. Scotti PA, et al. **Yeast** 1996 Aug;12(10):953–63

GENETICS

Solid medium labeling applied to two–dimensional gel electrophoresis. Miller BS, et al. **Anal Biochem** 1997 Feb 15;245(2):245–7

Genetic networks controlling the initiation of sporulation and the development of genetic competence in Bacillus subtilis. Grossman AD. **Annu Rev Genet** 1995;29:477–508 (121 ref.)

Molecular genetics of sporulation in Bacillus subtilis. Stragier P, et al. **Annu Rev Genet** 1996;30:297–41 (118 ref.)

Chromosome partitioning in bacteria. Wake RG, et al. **Annu Rev Genet** 1995;29:41–67 (127 ref.)

Direct selection of cloned DNA in Bacillus subtilis based on sucrose–induced lethality. Bramucci MG, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3948–53

Some like it cold: response of microorganisms to cold shock. Graumann P, et al. **Arch Microbiol** 1996 Nov; 166(5):293–300 (65 ref.)

Protein phosphorylation chain of a Bacillus subtilis fructose–specific phosphotransferase system and its participation in regulation of the expression of the lev operon. Charrier V, et al. **Biochemistry** 1997 Feb 4; 36(5):1163–72

Isolation and characterization of the Bacillus subtilis tryptophanyl–tRNA synthetase gene (trpS) conferring 5–fluorotryptophan resistance and temperature sensitivity. Chow KC, et al. **Biochim Biophys Acta** 1996 Nov 11; 1309(1–2):42–6

Expression of a bacterial endo (1–4)–beta–glucanase gene in mammalian cells and post translational modification of the gene product. Zhang JX, et al. **Biochim Biophys Acta** 1997 Jun 27;1357(2):215–24

Aminoacyl–tRNA synthetase gene regulation in Bacillus subtilis. Condon C, et al. **Biochimie** 1996;78(6):381–9 (54 ref.)

Generation of large libraries of random mutants in Bacillus subtilis by PCR–based plasmid multimerization. Shafikhani S, et al. **Biotechniques** 1997 Aug;23(2):304–10

Bipolar localization of the replication origin regions of chromosomes in vegetative and sporulating cells of B. subtilis. Webb CD, et al. **Cell** 1997 Mar 7;88(5):667–74

Comparison between the Escherichia coli and Bacillus subtilis genomes suggests that a major function of polynucleotide phosphorylase is to synthesize CDP. Danchin A. **DNA Res** 1997 Feb 28;4(1):9–18

Sequence analysis of the 36–kb region between gntZ and trnY genes of Bacillus subtilis genome. Kasahara Y, et al. **DNA Res** 1997 Apr 28;4(2):155–9

Mechanism of anucleate cell production in the oriC–deleted mutants of Bacillus subtilis. Moriya S, et al. **DNA Res** 1997 Apr 28;4(2):115–26

Cloning and sequencing of a 27.8–kb nucleotide sequence of the 79 degrees–81 degrees region of the Bacillus subtilis genome containing the sspE locus. Yamamoto H, et al. **DNA Res** 1996 Aug 31;3(4):257–62

Cloning and sequencing of a 23–kb region of the Bacillus subtilis genome between the iol and hut operons. Yoshida

K, et al. **DNA Res** 1995 Dec 31;2(6):295–301

The GroE chaperonin machine is a major modulator of the CIRCE heat shock regulon of Bacillus subtilis. Mogk A, et al. **EMBO J** 1997 Aug 1;16(15):4579–90

Molecular cloning and nucleotide sequence of an endo–1,5–alpha–L–arabinase gene from Bacillus subtilis. Sakamoto T, et al. **Eur J Biochem** 1997 May 1; 245(3):708–14

Bacillus subtilis DegU acts as a positive regulator for comK expression. Ogura M, et al. **FEBS Lett** 1996 Nov 18; 397(2–3):173–6

Molecular cloning and nucleotide sequence of the gene encoding phosphate–inducible pectin lyase of Bacillus subtilis. Sakamoto T, et al. **FEBS Lett** 1996 Dec 2; 398(2–3):269–73

The NAD synthetase NadE (OutB) of Bacillus subtilis is a sigma B–dependent general stress protein. Antelmann H, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):405–9

Neomycin– and spectinomycin–resistance replacement vectors for Bacillus subtilis. Chary VK, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):135–9

Impaired oxidative stress resistance of Bacillus subtilis sigB mutants and the role of katA and katE. Engelmann S, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):63–9

Expression of small RNAs by Bacillus sp. strain PS3 and B. subtilis cells during sporulation. Fink PS, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):387–92

Mutations in Bacillus subtilis PyrR, the pyr regulatory protein, with defects in regulation by pyrimidines. Ghim SY, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):13–8

A novel amidohydrolase gene from Bacillus subtilis cloning: DNA–sequence analysis and map position of amhX. Kempf B, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):129–37

Analysis of non–polar deletion mutations in the genes of the spo0K (opp) operon of Bacillus subtilis. LeDeaux JR, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):63–9

Optimisation of the BgaB reporter system: determination of transcriptional regulation of stress responsive genes in Bacillus subtilis. Schrögel O, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):237–43

Expression of a pepT homologue from Bacillus subtilis. Schrögel O, et al. **FEMS Microbiol Lett** 1996 Dec 15; 145(3):341–8

Integrative vector for constructing single–copy translational fusions between regulatory regions of Bacillus subtilis and the bgaB reporter gene encoding a heat–stable beta–galactosidase. Stoss O, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):49–54

Replication fork arrest and termination of chromosome replication in Bacillus subtilis. Wake RG. **FEMS Microbiol Lett** 1997 Aug 15;153(2):247–54 (46 ref.)

Characterization of Bacillus subtilis mutants resistant to cold shock–induced autolysis. Yamanaka K, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):269–75

Isolation and characterization of csbB, a gene controlled by Bacillus subtilis general stress transcription factor sigma B. Akbar S, et al. **Gene** 1996 Oct 24;177(1–2):123–8

Binding and transport of transforming DNA by Bacillus subtilis: the role of type–IV pilin–like proteins—a review. Dubnau D. **Gene** 1997 Jun 11;192(1):191–8 (56 ref.)

Sequence and transcriptional analysis of clpX, a class–III heat–shock gene of Bacillus subtilis. Gerth U, et al. **Gene** 1996 Nov 28;181(1–2):77–83

Identification of a new sigmaB–controlled gene, csbX, in Bacillus subtilis. Gomez M, et al. **Gene** 1997 Mar 25; 188(1):29–33

Plasmids for ectopic integration in Bacillus subtilis. Guérout–Fleury AM, et al. **Gene** 1996 Nov 21; 180(1–2):57–61

A xylose–inducible Bacillus subtilis integration vector and its application. Kim L, et al. **Gene** 1996 Nov 28; 181(1–2):71–6

A new Bacillus subtilis gene with homology to Escherichia coli prc. Marasco R, et al. **Gene** 1996 Dec 12; 183(1–2):149–52

Integrative vectors for constructing single–copy transcriptional fusions between Bacillus subtilis promoters and various reporter genes encoding heat–stable enzymes. Mogk A, et al. **Gene** 1996 Dec 5;182(1–2):33–6

Mapping of the replication origin of the Bacillus subtilis chromosome by the two–dimensional gel method. Moriya S, et al. **Gene** 1996 Oct 17;176(1–2):81–4

Nucleotide sequence of the Bacillus coagulans homologue of the spoIIA operon of Bacillus subtilis. Park SG, et al. **Gene** 1996 Oct 24;177(1–2):275–6

Sequence and genetic organization of a Bacillus subtilis operon encoding 2,3–dihydroxybenzoate biosynthetic enzymes. Rowland BM, et al. **Gene** 1996 Oct 31; 178(1–2):119–23

Analysis of DNA flanking the treA gene of Bacillus subtilis reveals genes encoding a putative specific enzyme IITre and a potential regulator of the trehalose operon. Schöck F, et al. **Gene** 1996 Oct 10;175(1–2):59–63

A Bacillus subtilis locus encoding several gene products affecting transport of cations. Sturr MG, et al. **Gene** 1997 Mar 25;188(1):91–4

Cloning and sequencing of a 35.7 kb in the 70 degree–73 degree region of the Bacillus subtilis genome reveal genes for a new two–component system, three spore germination proteins, an iron uptake system and a general stress response protein. Yamamoto H, et al. **Gene** 1997 Jul 31;194(2):191–9

The Bacillus subtilis chromosome region near 78 degrees contains the genes encoding a new two–component system, three ABC transporters and a lipase. Yamamoto H, et al. **Gene** 1996 Nov 28;181(1–2):147–51

Noncomplementing diploids from Bacillus subtilis protoplast fusion: relationship between maintenance of chromosomal inactivation and segregation capacity. Grandjean V, et al. **Genetics** 1996 Nov;144(3):871–81

General and oxidative stress responses in Bacillus subtilis: cloning, expression, and mutation of the alkyl hydroperoxide reductase operon. Antelmann H, et al. **J Bacteriol** 1996 Nov;178(22):6571–8

Isolation and characterization of a sporulation initiation mutation in the Bacillus subtilis secA gene. Asai K, et al. **J Bacteriol** 1997 Jan;179(2):544–7

Altered transcription activation specificity of a mutant form of Bacillus subtilis GltR, a LysR family member. Belitsky BR, et al. **J Bacteriol** 1997 Feb;179(4):1035–43

An lrp–like gene of Bacillus subtilis involved in branched–chain amino acid transport. Belitsky BR, et al. **J Bacteriol** 1997 Sep;179(17):5448–57

Mutation of the Bacillus subtilis alkyl hydroperoxide reductase (ahpCF) operon reveals compensatory interactions among hydrogen peroxide stress genes. Bsat N, et al. **J Bacteriol** 1996 Nov;178(22):6579–86

The divIVA minicell locus of Bacillus subtilis. Cha JH, et al. **J Bacteriol** 1997 Mar;179(5):1671–83

Apparent and real recombination frequencies in multicopy plasmids: the need for a novel approach in frequency determination. Chédin F, et al. **J Bacteriol** 1997 Feb; 179(3):754–61

Role of mRNA termination in regulation of ermK. Choi SS, et al. **J Bacteriol** 1997 Mar;179(6):2065–7

Xanthine metabolism in Bacillus subtilis: characterization of the xpt–pbuX operon and evidence for purine– and nitrogen–controlled expression of genes involved in xanthine salvage and catabolism. Christiansen LC, et al. **J Bacteriol** 1997 Apr;179(8):2540–50

The expression of a plasmid–specified exported protein causes structural plasmid instability in Bacillus subtilis. Cordes C, et al. **J Bacteriol** 1996 Sep;178(17):5235–42

The Bacillus subtilis ureABC operon. Cruz–Ramos H, et al. **J Bacteriol** 1997 May;179(10):3371–3

Isolation and characterization of the lacA gene encoding beta–galactosidase in Bacillus subtilis and a regulator gene, lacR. Daniel RA, et al. **J Bacteriol** 1997 Sep;179(17):5636–8

Translation of the mRNA for the sporulation gene spoIIID of Bacillus subtilis is dependent upon translation of a small upstream open reading frame. Decatur A, et al. **J Bacteriol** 1997 Feb;179(4):1324–8

The trp RNA–binding attenuation protein regulates TrpG synthesis by binding to the trpG ribosome binding site of Bacillus subtilis. Du H, et al. **J Bacteriol** 1997 Apr; 179(8):2582–6

Search for additional replication terminators in the Bacillus subtilis 168 chromosome. Griffiths AA, et al. **J Bacteriol** 1997 May;179(10):3358–61

Specificity of tRNA–mRNA interactions in Bacillus subtilis tyrS antitermination. Grundy FJ, et al. **J Bacteriol** 1997 Apr;179(8):2587–94

Suppression of initiation defects of chromosome replication in Bacillus subtilis dnaA and oriC–deleted mutants by integration of a plasmid replicon into the chromosomes. Hassan AK, et al. **J Bacteriol** 1997 Apr;179(8):2494–502

CotM of Bacillus subtilis, a member of the alpha–crystallin family of stress proteins, is induced during development and participates in spore outer coat formation. Henriques AO, et al. **J Bacteriol** 1997 Mar;179(6):1887–97

cse15, cse60, and csk22 are new members of mother–cell–specific sporulation regulons in Bacillus subtilis. Henriques AO, et al. **J Bacteriol** 1997 Jan; 179(2):389–98

The dnaK operon of Bacillus subtilis is heptacistronic. Homuth G, et al. **J Bacteriol** 1997 Feb;179(4):1153–64

A nuclear genetic lesion affecting Saccharomyces cerevisiae mitochondrial translation is complemented by a homologous Bacillus gene. Kim SI, et al. **J Bacteriol** 1997 Sep;179(17):5625–7

A temperature–sensitive trpS mutation interferes with trp RNA–binding attenuation protein (TRAP) regulation of trp gene expression in Bacillus subtilis. Lee AI, et al. **J Bacteriol** 1996 Nov;178(22):6518–24

Plasmid–amplified comS enhances genetic competence and suppresses sinR in Bacillus subtilis. Liu L, et al. **J Bacteriol** 1996 Sep;178(17):5144–52

Evidence that the Bacillus subtilis pyrimidine regulatory protein PyrR acts by binding to pyr mRNA at three sites in vivo. Lu Y, et al. **J Bacteriol** 1996 Oct;178(19):5806–9

Transcriptional attenuation of the Bacillus subtilis pyr operon by the PyrR regulatory protein and uridine nucleotides in vitro. Lu Y, et al. **J Bacteriol** 1996 Dec;178(24):7206–11

comYA, a gene similar to comGA of Bacillus subtilis, is essential for competence–factor–dependent DNA transformation in Streptococcus gordonii. Lunsford RD, et al. **J Bacteriol** 1997 May;179(10):3122–6

Structure and regulation of expression of the Bacillus subtilis valyl–tRNA synthetase gene. Luo D, et al. **J Bacteriol** 1997 Apr;179(8):2472–8

L–cysteine biosynthesis in Bacillus subtilis: identification, sequencing, and functional characterization of the gene coding for phosphoadenylylsulfate sulfotransferase. Mansilla MC, et al. **J Bacteriol** 1997 Feb;179(3):976–81

Role of enzymes of homologous recombination in illegitimate plasmid recombination in Bacillus subtilis. Meima R, et al. **J Bacteriol** 1997 Feb;179(4):1219–29

Identification and characterization of pbpA encoding Bacillus subtilis penicillin–binding protein 2A. Murray T, et al. **J Bacteriol** 1997 May;179(9):3021–9

Identification and characterization of pbpC, the gene encoding Bacillus subtilis penicillin–binding protein 3. Murray T, et al. **J Bacteriol** 1996 Oct;178(20):6001–5

bmr3, a third multidrug transporter gene of Bacillus subtilis. Ohki R, et al. **J Bacteriol** 1997 Feb;179(4):1423–7

Expression of AbrB, a transition state regulator from Bacillus subtilis, is growth phase dependent in a manner resembling that of Fis, the nucleoid binding protein from Escherichia coli. O'Reilly M, et al. **J Bacteriol** 1997 Jan;179(2):522–9

Identification and characterization of transcripts from the biotin biosynthetic operon of Bacillus subtilis. Perkins JB, et al. **J Bacteriol** 1996 Nov;178(21):6361–5

A Bacillus subtilis gene encoding a protein similar to nucleotide sugar transferases influences cell shape and viability. Price KD, et al. **J Bacteriol** 1997 Aug; 179(15):4959–61

The pst operon of Bacillus subtilis has a phosphate–regulated promoter and is involved in phosphate transport but not in regulation of the pho regulon. Qi Y, et al. **J Bacteriol** 1997 Apr;179(8):2534–9

flaD (sinR) mutations affect SigD–dependent functions at multiple points in Bacillus subtilis. Rashid MH, et al. **J Bacteriol** 1996 Nov;178(22):6640–3

Catabolite repression resistance of gnt operon expression in Bacillus subtilis conferred by mutation of His–15, the site of phosphoenolpyruvate–dependent phosphorylation of the phosphocarrier protein HPr. Reizer J, et al. **J Bacteriol** 1996 Sep;178(18):5480–6

Negative regulation of L–arabinose metabolism in Bacillus subtilis: characterization of the araR (araC) gene. Sá–Nogueira I, et al. **J Bacteriol** 1997 Mar;179(5):1598–608

Identification and characterization of the ccdA gene, required for cytochrome c synthesis in Bacillus subtilis. Schiött T, et al. **J Bacteriol** 1997 Mar;179(6):1962–73

The htpG gene of Bacillus subtilis belongs to class III heat shock genes and is under negative control. Schulz A, et al. **J Bacteriol** 1997 May;179(10):3103–9

Activation of the Bacillus subtilis spoIIG promoter requires interaction of Spo0A and the sigma subunit of RNA polymerase. Schyns G, et al. **J Bacteriol** 1997 Sep; 179(17):5605–8

CodY is required for nutritional repression of Bacillus subtilis genetic competence. Serror P, et al. **J Bacteriol** 1996 Oct; 178(20):5910–5

Identification and characterization of a new beta–glucoside utilization system in Bacillus subtilis. Tobisch S, et al. **J Bacteriol** 1997 Jan;179(2):496–506

Characterization of DinR, the Bacillus subtilis SOS repressor. Winterling KW, et al. **J Bacteriol** 1997 Mar;179(5):1698–703

Expression of the Bacillus subtilis ureABC operon is controlled by multiple regulatory factors including CodY, GlnR, TnrA, and Spo0H. Wray LV Jr, et al. **J Bacteriol** 1997 Sep;179(17):5494–501

Organization and transcription of the myo–inositol operon, iol, of Bacillus subtilis. Yoshida KI, et al. **J Bacteriol** 1997 Jul;179(14):4591–8

A feedback loop regulates the switch from one sigma factor to the next in the cascade controlling Bacillus subtilis mother cell gene expression. Zhang B, et al. **J Bacteriol** 1997 Oct;179(19):6138–44

Bacillus subtilis SpoIIID protein binds to two sites in the spoVD promoter and represses transcription by sigmaE RNA polymerase. Zhang B, et al. **J Bacteriol** 1997 Feb; 179(3):972–5

Characterization of the Bacillus subtilis thiC operon involved in thiamine biosynthesis. Zhang Y, et al. **J Bacteriol** 1997 May;179(9):3030–5

Two cistrons of the gerC operon of Bacillus subtilis encode the two subunits of heptaprenyl diphosphate synthase. Zhang YW, et al. **J Bacteriol** 1997 Feb;179(4):1417–9

Cloning, sequencing, characterization, and expression of an extracellular alpha–amylase from the hyperthermophilic archaeon Pyrococcus furiosus in Escherichia coli and Bacillus subtilis. Jorgensen S, et al. **J Biol Chem** 1997 Jun 27;272(26):16335–42

The bacillus subtilis dinR gene codes for the analogue of Escherichia coli LexA. Purification and characterization of the DinR protein. Miller MC, et al. **J Biol Chem** 1996 Dec 27;271(52):33502–8

DNA–melting at the Bacillus subtilis flagellin promoter nucleates near –10 and expands unidirectionally. Chen YF, et al. **J Mol Biol** 1997 Mar 21;267(1):47–59

Processing of the Bacillus subtilis thrS leader mRNA is RNase E–dependent in Escherichia coli. Condon C, et al. **J Mol Biol** 1997 May 2;268(2):235–42

Effect of the SinR protein on the expression of the Bacillus subtilis 168 lytABC operon. Margot P, et al. **Microb Drug Resist** 1996 Spring;2(1):119–21

Computerized genetic map of Bacillus subtilis. Biaudet V, et al. **Microbiology** 1996 Oct;142 (Pt 10):2669–729

Mapping of the 150 kb spoIIIC–pheA region of the Bacillus subtilis chromosome using Long Accurate PCR and three yeast artificial chromosomes. Bolotin A, et al. **Microbiology** 1996 Nov;142 (Pt 11):3017–20

The 52 degrees–55 degrees segment of the Bacillus subtilis chromosome: a region devoted to purine uptake and metabolism, and containing the genes cotA, gabP and guaA

and the pur gene cluster within a 34960 bp nucleotide sequence. Borriss R, et al. **Microbiology** 1996 Nov;142 (Pt 11):3027–31

Organization of the Bacillus subtilis 168 chromosome between kdg and the attachment site of the SP beta prophage: use of Long Accurate PCR and yeast artificial chromosomes for sequencing. Capuano V, et al. **Microbiology** 1996 Nov;142 (Pt 11):3005–15

The Bacillus subtilis 168 chromosome from sspE to katA. Cummings NJ, et al. **Microbiology** 1997 Jun;143 (Pt 6):1855–9

The trp RNA-binding attenuation protein (TRAP) regulates the steady-state levels of transcripts of the Bacillus subtilis folate operon. de Saizieu A, et al. **Microbiology** 1997 Mar; 143 (Pt 3):979–89

Integrated mapping and sequencing of a 115 kb DNA fragment from Bacillus subtilis: sequence analysis of a 21 kb segment containing the sigL locus. Fabret C, et al. **Microbiology** 1996 Nov;142 (Pt 11):3089–96

BofC encodes a putative forespore regulator of the Bacillus subtilis sigma K checkpoint. Gomez M, et al. **Microbiology** 1997 Jan;143 (Pt 1):157–70

Expression of the Bacillus subtilis spoIVB gene is under dual sigma F/sigma G control. Gomez M, et al. **Microbiology** 1996 Dec;142 (Pt 12):3453–7

The Bacillus subtilis clpC operon encodes DNA repair and competence proteins. Krüger E, et al. **Microbiology** 1997 Apr;143 (Pt 4):1309–16

A 32 kb nucleotide sequence from the region of the lincomycin-resistance gene (22 degrees-25 degrees) of the Bacillus subtilis chromosome and identification of the site of the lin-2 mutation. Kumano M, et al. **Microbiology** 1997 Aug;143 (Pt 8):2775–82

A 10.3 kbp segment from nprB to argJ at the 102 degrees region of the Bacillus subtilis chromosome. Levine A, et al. **Microbiology** 1997 Jan;143 (Pt 1):175–7

Use of green fluorescent protein for detection of cell-specific gene expression and subcellular protein localization during sporulation in Bacillus subtilis. Lewis PJ, et al. **Microbiology** 1996 Apr;142 (Pt 4):733–40

Sequence and analysis of a 31 kb segment of the Bacillus subtilis chromosome in the area of the rrnH and rrnG operons. Liu H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2763–7

Characterization of the ftsH gene of Bacillus subtilis. Lysenko E, et al. **Microbiology** 1997 Mar;143 (Pt 3):971–8

The wprA gene of Bacillus subtilis 168, expressed during exponential growth, encodes a cell-wall-associated protease. Margot P, et al. **Microbiology** 1996 Dec;142 (Pt 12):3437–44

Systematic sequencing of the 283 kb 210 degrees-232 degrees region of the Bacillus subtilis genome containing the skin element and many sporulation genes. Mizuno M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3103–11

The European Bacillus subtilis genome sequencing project: current status and accessibility of the data from a new World Wide Web site. Moszer I, et al. **Microbiology** 1996 Nov;142 (Pt 11):2987–91

A 22 kb DNA sequence in the cspB-glpPFKD region at 75 degrees on the Bacillus subtilis chromosome. Noback MA, et al. **Microbiology** 1996 Nov;142 (Pt 11):3021–6

Analysis of the Bacillus subtilis genome: cloning and nucleotide sequence of a 62 kb region between 275 degrees (rrnB) and 284 degrees (pai). Oudega B, et al. **Microbiology** 1997 Aug;143 (Pt 8):2769–74

A 12 kb nucleotide sequence containing the alanine dehydrogenase gene at 279 degrees on the Bacillus subtilis chromosome. Oudega B, et al. **Microbiology** 1997 May;143 (Pt 5):1489–91

A 23911 bp region of the Bacillus subtilis genome comprising genes located upstream and downstream of the lev operon. Parro V, et al. **Microbiology** 1997 Apr;143 (Pt 4):1321–6

The signal peptidase II (lsp) gene of Bacillus subtilis. Prágai Z, et al. **Microbiology** 1997 Apr;143 (Pt 4):1327–33

New genes in the 170 degrees region of the Bacillus subtilis genome encode DNA gyrase subunits, a thioredoxin, a xylanase and an amino acid transporter. Rose M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3097–101

The Bacillus subtilis L-arabinose (ara) operon: nucleotide sequence, genetic organization and expression. Sá-Nogueira I, et al. **Microbiology** 1997 Mar;143 (Pt 3):957–69

Nucleotide sequence and analysis of the phoB-rrnE-groESL region of the Bacillus subtilis chromosome. Sadaie Y, et al. **Microbiology** 1997 Jun;143 (Pt 6):1861–6

The Bacillus subtilis genes for ribonucleotide reductase are similar to the genes for the second class I NrdE/NrdF enzymes of Enterobacteriaceae. Scotti C, et al. **Microbiology** 1996 Nov;142 (Pt 11):2995–3004

Sequence of the 305 degrees-307 degrees region of the Bacillus subtilis chromosome. Soldo B, et al. **Microbiology** 1996 Nov;142 (Pt 11):3079–88

Gain-of-function mutation of sapB that affects formation of alkaline phosphatase by Bacillus subtilis in sporulation conditions. Whalen MB, et al. **Microbiology** 1997 Feb;143 (Pt 2):577–83

The ampS-nprE (124 degrees-127 degrees) region of the Bacillus subtilis 168 chromosome: sequencing of a 27 kb segment and identification of several genes in the area. Winters P, et al. **Microbiology** 1996 Nov;142 (Pt 11):3033–7

The dnaB-pheA (256 degrees-240 degrees) region of the Bacillus subtilis chromosome containing genes responsible for stress responses, the utilization of plant cell walls and primary metabolism. Wipat A, et al. **Microbiology** 1996 Nov;142 (Pt 11):3067–78

Cloning and sequencing of a 40.6 kb segment in the 73 degrees-76 degrees region of the Bacillus subtilis chromosome containing genes for trehalose metabolism and acetoin utilization. Yamamoto H, et al. **Microbiology** 1996 Nov;142 (Pt 11):3057–65

A 23.4 kb segment at the 69 degrees-70 degrees region of the Bacillus subtilis genome. Yamamoto H, et al. **Microbiology** 1997 Apr;143 (Pt 4):1317–20

The 25 degrees-36 degrees region of the Bacillus subtilis chromosome: determination of the sequence of a 146 kb segment and identification of 113 genes. Yamane K, et al. **Microbiology** 1996 Nov;142 (Pt 11):3047–56

Sequence analysis of a 50 kb region between spo0H and rrnH on the Bacillus subtilis chromosome. Yasumoto K, et al. **Microbiology** 1996 Nov;142 (Pt 11):3039–46

Sequencing of a 65 kb region of the Bacillus subtilis genome containing the lic and cel loci, and creation of a 177 kb contig covering the gnt-sacXY region. Yoshida K, et al. **Microbiology** 1996 Nov;142 (Pt 11):3113–23

Purification of two Bacillus subtilis proteins which cross-react with antibodies directed against eukaryotic protein kinase C, the His HPr kinase and trigger factor. Zouari N, et al. **Microbiology** 1997 Apr;143 (Pt 4):1151–61

Effects of pleiotrophic mutations, degUh and spoOA, on the production of foreign proteins using the heterologous secretion system of Bacillus subtilis. Kim SI, et al. **Mol Cells** 1997 Apr 30;7(2):158–64

Molecular cloning and characterisation of the ribC gene from Bacillus subtilis: a point mutation in ribC results in riboflavin overproduction. Coquard D, et al. **Mol Gen Genet** 1997 Mar 18;254(1):81–4

Effects of heterologous expression of CspB, the major cold shock protein of Bacillus subtillis, on protein synthesis in Escherichia coli. Graumann P, et al. **Mol Gen Genet** 1997 Feb 27;253(6):745–52

A general system for generating unlabelled gene replacements in bacterial chromosomes. Leenhouts K, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):217–24

Bacillus subtilis ComK negatively regulates degR gene expression. Ogura M, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):157–65

Effects of the sinR and degU32 (Hy) mutations on the regulation of the aprE gene in Bacillus subtilis. Olmos J, et al. **Mol Gen Genet** 1997 Feb 20;253(5):562–7

The arginine operon of Bacillus stearothermophilus: characterization of the control region and its interaction with the heterologous B. subtilis arginine repressor. Savchenko A, et al. **Mol Gen Genet** 1996 Aug 27; 252(1-2):69–78

Bacillus subtilis can modulate its capacity and specificity for protein secretion through temporally controlled expression of the sipS gene for signal peptidase I. Bolhuis A, et al. **Mol Microbiol** 1996 Nov;22(4):605–18

A two-gene ABC-type transport system that extrudes Na+ in Bacillus subtilis is induced by ethanol or protonophore. Cheng J, et al. **Mol Microbiol** 1997 Mar;23(6):1107–20

The ftsH gene of Bacillus subtilis is involved in major cellular processes such as sporulation, stress adaptation and secretion. Deuerling E, et al. **Mol Microbiol** 1997 Mar; 23(5):921–33

Expression of the Bacillus subtilis gabP gene is regulated independently in response to nitrogen and amino acid availability. Ferson AE, et al. **Mol Microbiol** 1996 Nov; 22(4):693–701

Role of the transcriptional activator RocR in the arginine-degradation pathway of Bacillus subtilis. Gardan R, et al. **Mol Microbiol** 1997 May;24(4):825–37

Regulatory inputs for the synthesis of ComK, the competence transcription factor of Bacillus subtilis. Hahn J, et al. **Mol Microbiol** 1996 Aug;21(4):763–75

Inactivation of mecA prevents recovery from the competent state and interferes with cell division and the partitioning of nucleoids in Bacillus subtilis. Hahn J, et al. **Mol Microbiol** 1995 Nov;18(4):755–67

Replacement of the lysine residue in the consensus ATP-binding sequence of the AddA subunit of AddAB drastically affects chromosomal recombination in transformation and transduction of Bacillus subtilis. Haijema BJ, et al. **Mol Microbiol** 1996 Sep;21(5):989–99

Regulated expression of the dinR and recA genes during competence development and SOS induction in Bacillus subtilis. Haijema BJ, et al. **Mol Microbiol** 1996 Oct; 22(1):75–85

Replication terminus for DNA polymerase I during initiation of pAM beta 1 replication: role of the plasmid-encoded resolution system. Jannière L, et al. **Mol Microbiol** 1997 Feb;23(3):525–35

Alternate promoters direct stress-induced transcription of the Bacillus subtilis clpC operon. Krüger E, et al. **Mol Microbiol** 1996 May;20(4):713–23

SpoIIQ, a forespore-expressed gene required for engulfment in Bacillus subtilis. Londoño-Vallejo JA, et al. **Mol Microbiol** 1997 Apr;24(1):29–39

Antitermination of transcription of catabolic operons. Rutberg B. **Mol Microbiol** 1997 Feb;23(3):413–21 (71 ref.)

The Bacillus subtilis soj-spo0J locus is required for a centromere-like function involved in prespore chromosome partitioning. Sharpe ME, et al. **Mol Microbiol** 1996 Aug;21(3):501–9

Bacillus subtilis operon under the dual control of the general stress transcription factor sigma B and the sporulation transcription factor sigma H. Varón D, et al. **Mol Microbiol** 1996 Apr;20(2):339–50

Induction of unique tandem-base change mutations in bacterial spores exposed to extreme dryness. Munakata N, et al. **Mutat Res** 1997 Apr 24;390(1-2):189–95

Transfection enhancement in Bacillus subtilis displays features of a novel DNA repair pathway. I: DNA base and nucleolytic specificity. Radany EH, et al. **Mutat Res** 1997 Aug;384(2):107–20

Transfection enhancement in Bacillus subtilis displays features of a novel DNA repair pathway. II: Host constitutive expression, repair DNA synthesis, and in vitro activity. Radany EH, et al. **Mutat Res** 1997 Aug; 384(2):121–34

In vivo analysis of the plasmid pAM beta 1 resolution system. Jannière L, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3431–6

Reorganization of terminator DNA upon binding replication terminator protein: implications for the functional replication fork arrest complex. Kralicek AV, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):590–6

The NRSub database: update 1997. Perrière G, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):53–6

Functional comparison of conjugative transposons Tn916 and Tn925. Showsh SA, et al. **Plasmid** 1996 May;35(3):164–73

The Bacillus subtilis crh gene encodes a HPr-like protein involved in carbon catabolite repression. Galinier A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8439–44

Experimental surgery to create subgenomes of Bacillus subtilis 168. Itaya M, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5378–82

Function of RNA secondary structures in transcriptional attenuation of the Bacillus subtilis pyr operon. Lu Y, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14462–7

Structure of the replication terminus-terminator protein complex as probed by affinity cleavage. Pai KS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10647–52

TnrA, a transcription factor required for global nitrogen regulation in Bacillus subtilis. Wray LV Jr, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8841–5

Purification of human recombinant interleukin 1 receptor antagonist proteins upon Bacillus subtilis sporulation. Maurizi G, et al. **Protein Expr Purif** 1997 Mar;9(2):219–27

Gram-positive bacterium sequenced [news] Williams N. **Science** 1997 Jul 25;277(5325):478

Immunization with meningococcal class 1 outer membrane protein produced in Bacillus subtilis and reconstituted in the presence of Zwittergent or Triton X-100. Idänpään-Heikkilä I, et al. **Vaccine** 1996 Jun;14(9):886–91

[Phenotypic expression of a 100-pair nucleotide deletion in the regulatory region of the Bacillus subtilis riboflavin operon] Kreneva RA, et al. **Genetika** 1997 May; 33(5):599–603 (Eng. Abstr.) **(Rus)**

[Genetic mapping of an additional regulatory locus of the riboflavin operon of Bacillus subtilis] Kreneva RA, et al. **Genetika** 1996 Dec;32(12):1623–8 (Eng. Abstr.) **(Rus)**

[Homology in natural cryptic plasmids of Bacillus subtilis] Poluéktova EU, et al. **Genetika** 1996 Nov;32(11):1498–503 (Eng. Abstr.) **(Rus)**

[Cloning of ribR, an additional regulatory gene of the Bacillus subtilis riboflavin operon] Solov'eva IM, et al. **Genetika** 1997 Jun;33(6):739–43 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Genetic networks controlling the initiation of sporulation and the development of genetic competence in Bacillus subtilis. Grossman AD. **Annu Rev Genet** 1995;29:477–508 (121 ref.)

Physiology and metabolic fluxes of wild-type and riboflavin-producing Bacillus subtilis. Sauer U, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3687–96

The use of two or more microorganisms versus one microorganism in the carrier materials for biological indicators. Shintani H. **Biomed Instrum Technol** 1997 Jul-Aug;31(4):387–90

DivIB, FtsZ and cell division in Bacillus subtilis. Rowland SL, et al. **Mol Microbiol** 1997 Jan;23(2):295–302

Determination of cell fate in Bacillus subtilis. Errington J. **Trends Genet** 1996 Jan;12(1):31–4 (33 ref.)

[The effect of growth media on recovery of test microorganisms after exposure to saturated steam under pressure] Krzywicka H, et al. **Rocz Panstw Zakl Hig** 1996; 47(4):439–44 (Eng. Abstr.) **(Pol)**

[Stimulation of growth and spore formation of Bacillus subtilis by optimization of carbohydrate nutrition during submerged cultivation] Osadchaia AI, et al. **Prikl Biokhim Mikrobiol** 1997 May-Jun;33(3):321–4 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Heat-killed Bacillus subtilis inhibits T-cell proliferative response to mitogens and recall antigens. Gao J, et al. **Int J Immunopharmacol** 1996 Dec;18(12):701–6

[The effect of live cultures of Bacillus subtilis on body nonspecific resistance] Kudriavtsev VA, et al. **Mikrobiol Z** 1996 Mar-Apr;58(2):46–55 (Eng. Abstr.) **(Rus)**

METABOLISM

Mutagenesis and ultraviolet inactivation of transforming

DNA of Haemophilus influenzae complexed with a Bacillus subtilis protein that alters DNA conformation. Setlow JK, et al. **Acta Biochim Pol** 1996;43(1):107–14

Production of beta-mannanase by B. subtilis from agro-industrial by-products: screening and optimization. Mannanase from wastes. el-Helow ER, et al. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):189–93

Digestion of staphylococcal enterotoxin by Bacillus natto. Osawa R, et al. **Antonie Van Leeuwenhoek** 1997 May; 71(4):307–11

Use of the pre-pro part of Staphylococcus hyicus lipase as a carrier for secretion of Escherichia coli outer membrane protein A (OmpA) prevents proteolytic degradation of OmpA by cell-associated protease(s) in two different gram-positive bacteria. Meens J, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2814–20

Physiology and metabolic fluxes of wild-type and riboflavin-producing Bacillus subtilis. Sauer U, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3687–96

Some like it cold: response of microorganisms to cold shock. Graumann P, et al. **Arch Microbiol** 1996 Nov; 166(5):293–300 (65 ref.)

Bacillus subtilis Ffh, a homologue of mammalian SRP54, can intrinsically bind to the precursors of secretory proteins. Bunai K, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):762–7

The GroE chaperonin machine is a major modulator of the CIRCE heat shock regulon of Bacillus subtilis. Mogk A, et al. **EMBO J** 1997 Aug 1;16(15):4579–90

Overproduction, purification and characterization of the HPB12–L24 ribosomal protein of Bacillus subtilis. Zouine M, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):41–8

Subcellular localization of proteins governing the proteolytic activation of a developmental transcription factor in Bacillus subtilis. Resnekov O, et al. **Genes Cells** 1996 Jun; 1(6):529–42

Dynamic, mitotic-like behavior of a bacterial protein required for accurate chromosome partitioning. Glaser P, et al. **Genes Dev** 1997 May 1;11(9):1160–8

Biochemical characterization of a molecular switch involving the heat shock protein ClpC, which controls the activity of ComK, the competence transcription factor of Bacillus subtilis. Turgay K, et al. **Genes Dev** 1997 Jan 1;11(1):119–28

A non-intrusive method for the measurement of water vapour sorption by bacterial spores. Rubel GO. **J Appl Microbiol** 1997 Aug;83(2):243–7

Structural analysis of Bacillus subtilis 168 endospore peptidoglycan and its role during differentiation. Atrih A, et al. **J Bacteriol** 1996 Nov;178(21):6173–83

Interaction of the trp RNA-Binding attenuation protein (TRAP) of Bacillus subtilis with RNA: effects of the number of GAG repeats, the nucleotides separating adjacent repeats, and RNA secondary structure. Babitzke P, et al. **J Bacteriol** 1996 Sep;178(17):5159–63

Secondary transporters for citrate and the Mg(2+)-citrate complex in Bacillus subtilis are homologous proteins. Boorsma A, et al. **J Bacteriol** 1996 Nov;178(21):6216–22

The C terminus of the AddA subunit of the Bacillus subtilis ATP-dependent DNase is required for the ATP-dependent exonuclease activity but not for the helicase activity. Haijema BJ, et al. **J Bacteriol** 1996 Sep;178(17):5086–91

Analysis of deamidation of small, acid-soluble spore proteins from Bacillus subtilis in vitro and in vivo. Hayes CS, et al. **J Bacteriol** 1997 Oct;179(19):6020–7

Bacillus subtilis Pro-sigmaE fusion protein localizes to the forespore septum and fails to be processed when synthesized in the forespore. Ju J, et al. **J Bacteriol** 1997 Aug;179(15):4888–93

Three transport systems for the osmoprotectant glycine betaine operate in Bacillus subtilis: characterization of OpuD. Kappes RM, et al. **J Bacteriol** 1996 Sep; 178(17):5071–9

Association of the histone-like protein HBsu with the nucleoid of Bacillus subtilis. Köhler P, et al. **J Bacteriol** 1997 Mar;179(6):2060–4

Protein conformational change and nucleotide binding involved in regulation of sigmaF in Bacillus subtilis. Lord M, et al. **J Bacteriol** 1996 Dec;178(23):6730–5

Identification and characterization of pbpA encoding Bacillus subtilis penicillin-binding protein 2A. Murray T, et al. **J Bacteriol** 1997 May;179(9):3021–9

Bacillus subtilis CcdA-defective mutants are blocked in a late step of cytochrome c biogenesis. Schiött T, et al. **J Bacteriol** 1997 Jul;179(14):4523–9

A vancomycin-inducible lacZ reporter system in Bacillus subtilis: induction by antibiotics that inhibit cell wall synthesis and by lysozyme. Ulijasz AT, et al. **J Bacteriol** 1996 Nov;178(21):6305–9

The yeast two-hybrid system detects interactions between Bacillus subtilis sigmaB regulators. Voelker U, et al. **J Bacteriol** 1996 Dec;178(23):7020–3

Stress activation of Bacillus subtilis sigma B can occur in the absence of the sigma B negative regulator RsbX. Voelker U, et al. **J Bacteriol** 1997 Mar;179(6):1980–4

Reactivation of the Bacillus subtilis anti-sigma B antagonist, RsbV, by stress- or starvation-induced phosphatase activities. Voelker U, et al. **J Bacteriol** 1996 Sep; 178(18):5456–63

The trp RNA-binding attenuation protein (TRAP) from Bacillus subtilis binds to unstacked trp leader RNA. Baumann C, et al. **J Biol Chem** 1997 Aug 8;272(32):19863–9

Alanine-scanning mutagenesis of Bacillus subtilis trp RNA-binding attenuation protein (TRAP) reveals residues involved in tryptophan binding and RNA binding. Yang M, et al. **J Mol Biol** 1997 Aug 1;270(5):696–710

Overall protein content and induced enzyme components of the periplasm of Bacillus subtilis. Pooley HM, et al. **Microb Drug Resist** 1996 Spring;2(1):9–15 (43 ref.)

D-alanine deprivation of Bacillus subtilis teichoic acids is without effect on cell growth and morphology but affects the autolytic activity. Wecke J, et al. **Microb Drug Resist** 1996 Spring;2(1):123–9

Specific and general stress proteins in Bacillus subtilis--a two-deimensional protein electrophoresis study. Bernhardt J, et al. **Microbiology** 1997 Mar;143(Pt 3):999–1017

The 52 degrees-55 degrees segment of the Bacillus subtilis chromosome: a region devoted to purine uptake and metabolism, and containing the genes cotA, gabP and guaA and the pur gene cluster within a 34960 bp nucleotide sequence. Borriss R, et al. **Microbiology** 1996 Nov;142 (Pt 11):3027–31

Phosphate-starvation-inducible proteins in Bacillus subtilis: a two-dimensional gel electrophoresis study. Eymann C, et al. **Microbiology** 1996 Nov;142 (Pt 11):3163–70

Use of green fluorescent protein for detection of cell-specific gene expression and subcellular protein localization during sporulation in Bacillus subtilis. Lewis PJ, et al. **Microbiology** 1996 Apr;142 (Pt 4):733–40

Influence of Bacillus subtilis phoR on cell wall anionic polymers. Müller JP, et al. **Microbiology** 1997 Mar;143 (Pt 3):947–56

New genes in the 170 degrees region of the Bacillus subtilis genome encode DNA gyrase subunits, a thioredoxin, a xylanase and an amino acid transporter. Rose M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3097–101

Identification of vegetative proteins for a two-dimensional protein index of Bacillus subtilis. Schmid R, et al. **Microbiology** 1997 Mar;143 (Pt 3):991–8

The dnaB-pheA (256 degrees-240 degrees) region of the Bacillus subtilis chromosome containing genes responsible for stress responses, the utilization of plant cell walls and primary metabolism. Wipat A, et al. **Microbiology** 1996 Nov;142 (Pt 11):3067–78

Cloning and sequencing of a 40.6 kb segment in the 73 degrees-76 degrees region of the Bacillus subtilis chromosome containing genes for trehalose metabolism and acetoin utilization. Yamamoto H, et al. **Microbiology** 1996 Nov;142 (Pt 11):3057–65

Effects of pleiotrophic mutations, degUh and spoOA, on the production of foreign proteins using the heterologous secretion system of Bacillus subtilis. Kim SI, et al. **Mol Cells** 1997 Apr 30;7(2):158–64

Bacillus subtilis ComK negatively regulates degR gene expression. Ogura M, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):157–65

Modulator protein RsbR regulates environmental signalling in the general stress pathway of Bacillus subtilis. Akbar S, et al. **Mol Microbiol** 1997 May;24(3):567–78

RecR is a zinc metalloprotein from Bacillus subtilis 168. Ayora S, et al. **Mol Microbiol** 1997 Feb;23(4):639–47

Role of the transcriptional activator RocR in the arginine-degradation pathway of Bacillus subtilis. Gardan R, et al. **Mol Microbiol** 1997 May;24(4):825–37

Altering the level and regulation of the major sigma subunit of RNA polymerase affects gene expression and development in Bacillus subtilis. Hicks KA, et al. **Mol Microbiol** 1996 Apr;20(1):201–12

Methanol production during chemotaxis to amino acids in Bacillus subtilis. Kirby JR, et al. **Mol Microbiol** 1997 May; 24(4):869–78

Catabolite repression of the Bacillus subtilis gnt operon exerted by two catabolite-responsive elements. Miwa Y, et al. **Mol Microbiol** 1997 Mar;23(6):1203–13

CheC and CheD interact to regulate methylation of Bacillus subtilis methyl-accepting chemotaxis proteins. Rosario MM, et al. **Mol Microbiol** 1996 Aug;21(3):511–8

In vitro selection of optimal AbrB-binding sites: comparison to known in vivo sites indicates flexibility in AbrB binding and recognition of three-dimensional DNA structures. Xu K, et al. **Mol Microbiol** 1996 Jan;19(1):145–58

Metabolic fluxes in riboflavin-producing Bacillus subtilis. Sauer U, et al. **Nat Biotechnol** 1997 May;15(5):448–52

Purification and characterization of the RecF protein from Bacillus subtilis 168. Ayora S, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2766–72

The purified Bacillus subtilis tetracycline efflux protein TetA(L) reconstitutes both tetracycline-cobalt/H+ and Na+(K+)/H+ exchange. Cheng J, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14446–51

A peptide export-import control circuit modulating bacterial development regulates protein phosphatases of the phosphorelay. Perego M. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8612–7

CcpA and HPr(ser-P): mediators of catabolite repression in Bacillus subtilis. Chauvaux S. **Res Microbiol** 1996 Jul-Sep; 147(6-7):518–22 (20 ref.)

PHYSIOLOGY

An exported peptide functions intracellularly to contribute to cell density signaling in B. subtilis. Lazazzera BA, et al. **Cell** 1997 Jun 13;89(6):917–25

Spore development in Bacillus subtilis. Piggot PJ. **Curr Opin Genet Dev** 1996 Oct;6(5):531–7 (52 ref.)

Septal localization of the SpoIIIE chromosome partitioning protein in Bacillus subtilis. Wu LJ, et al. **EMBO J** 1997 Apr 15;16(8):2161–9

Compartmentalized distribution of the proteins controlling the prespore-specific transcription factor sigmaF of Bacillus subtilis. Lewis PJ, et al. **Genes Cells** 1996 Oct; 1(10):881–94

SpoVM, a small protein essential to development in Bacillus subtilis, interacts with the ATP-dependent protease FtsH. Cutting S, et al. **J Bacteriol** 1997 Sep;179(17):5534–42

FlgM is a primary regulator of sigmaD activity, and its absence restores motility to a sinR mutant. Fredrick K, et al. **J Bacteriol** 1996 Dec;178(23):7010–3

The Bacillus subtilis sigma(X) protein is an extracytoplasmic function sigma factor contributing to survival at high temperature. Huang X, et al. **J Bacteriol** 1997 May; 179(9):2915–21

Effects of inactivation or overexpression of the sspF gene on properties of Bacillus subtilis spores. Loshon CA, et al. **J Bacteriol** 1997 Jan;179(1):272–5

Contribution of partner switching and SpoIIAA cycling to regulation of sigmaF activity in sporulating Bacillus subtilis. Magnin T, et al. **J Bacteriol** 1997 Jun;179(12):3922–7

A gene (sleB) encoding a spore cortex-lytic enzyme from Bacillus subtilis and response of the enzyme to L-alanine-mediated germination. Moriyama R, et al. **J Bacteriol** 1996 Oct;178(20):6059–63

Properties of the phosphorylation reaction catalyzed by SpoIIAB that help to regulate sporulation of Bacillus subtilis. Najafi SM, et al. **J Bacteriol** 1997 Sep; 179(17):5628–31

Disappearance of the sigma E transcription factor from the forespore and the SpoIIE phosphatase from the mother cell contributes to establishment of cell-specific gene expression during sporulation in Bacillus subtilis. Pogliano K, et al. **J Bacteriol** 1997 May;179(10):3331–41

DNA translocation across planar bilayers containing Bacillus subtilis ion channels. Szabò I, et al. **J Biol Chem** 1997 Oct 3;272(40):25275–82

Molecular recognition in signal transduction: the interaction surfaces of the Spo0F response regulator with its cognate phosphorelay proteins revealed by alanine scanning mutagenesis. Tzeng YL, et al. **J Mol Biol** 1997 Sep 19; 272(2):200–12

The temperature sensitivity of Bacillus subtilis DB1005 is due to insufficient activity, rather than insufficient concentration, of the mutant delta A factor. Chang BY, et al. **Microbiology** 1997 Apr;143 (Pt 4):1299–308

Expression of the Bacillus subtilis spoIVB gene is under dual sigma F/sigma G control. Gomez M, et al. **Microbiology** 1996 Dec;142 (Pt 12):3453–7

Mutational analysis of the early forespore/mother-cell signalling pathway in Bacillus subtilis. Londoño-Vallejo JA. **Microbiology** 1997 Aug;143 (Pt 8):2753–61

Timing and genetic regulation of commitment to sporulation in Bacillus subtilis. Parker GF, et al. **Microbiology** 1996 Dec;142 (Pt 12):3445–52

The ftsH gene of Bacillus subtilis is involved in major cellular processes such as sporulation, stress adaptation and secretion. Deuerling E, et al. **Mol Microbiol** 1997 Mar; 23(5):921–33

The Bacillus subtilis DivIVA protein targets to the division septum and controls the site specificity of cell division. Edwards DH, et al. **Mol Microbiol** 1997 Jun;24(5):905–15

The Bacillus subtilis chromatin-associated protein Hbsu is involved in DNA repair and recombination. Fernández S, et al. **Mol Microbiol** 1997 Mar;23(6):1169–79

Two-stage regulation of an anti-sigma factor determines developmental fate during bacterial endospore formation. Kellner EM, et al. **Mol Microbiol** 1996 Sep;21(5):913–24

Establishing differential gene expression in sporulating Bacillus subtilis: phosphorylation of SpoIIAA (anti-anti-sigmaF) alters its conformation and prevents formation of a SpoIIAA/SpoIIAB/ADP complex. Magnin T, et al. **Mol Microbiol** 1996 Feb;19(4):901–7

SpoIVB has two distinct functions during spore formation in Bacillus subtilis. Oke V, et al. **Mol Microbiol** 1997 Jan; 23(2):223–30

Control of the cell-specificity of sigma F activity in Bacillus subtilis. Errington J, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):537–42 (38 ref.)

Muramic lactam in peptidoglycan of Bacillus subtilis spores is required for spore outgrowth but not for spore dehydration or heat resistance. Popham DL, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):.5405–10

Purification of human recombinant interleukin 1 receptor antagonist proteins upon Bacillus subtilis sporulation. Maurizi G, et al. **Protein Expr Purif** 1997 Mar;9(2):219–27

Protein localization and cell fate in bacteria. Shapiro L, et al. **Science** 1997 May 2;276(5313):712–8 (49 ref.)

[Regulation of the phosphorelay at the initiation of sporulation and activation of sporulation-specific sigma factors in Bacillus subtilis] Tochikubo K, et al. **Nippon Saikingaku Zasshi** 1996 Aug;51(3):789–801 (73 ref.) **(Jpn)**

[Factors modulating the sensitivity of bacterial spores to steam under pressure] Krzywicka H, et al. **Rocz Panstw Zakl Hig** 1996;47(3):325–32 (Eng. Abstr.) **(Pol)**

[Phenotypic characterization of Bacillus subtilis mutants with decreased exonuclease I activity] Dzhanga AA, et al. **Genetika** 1997 Mar;33(3):314–20 (Eng. Abstr.) **(Rus)**

BACILLUS SUBTILIS

RADIATION EFFECTS

Response of Bacillus subtilis spores to dehydration and UV irradiation at extremely low temperatures. Dose K, et al. **Orig Life Evol Biosph** 1996 Feb;26(1):47–59

[The effect of electromagnetic field on the biosynthesis and various properties of extracellular proteinase and lectin from Bacillus subtilis 316 M] Kudria VA, et al. **Prikl Biokhim Mikrobiol** 1996 Nov–Dec;32(6):646–9 (Eng. Abstr.) **(Rus)**

[The patterns of the mutagenic action of radiations with different LETs on Bacillus subtilis cells] Borelko AV, et al. **Radiats Biol Radioecol** 1997 May–Jun;37(3):408–12 (Eng. Abstr.) **(Rus)**

[Bacterial activity in the products of laser destruction of human dental enamel and dentin] Belikov AV, et al. **Stomatologiia (Mosk)** 1995;74(6):32–4 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Bacillus subtilis 168 RecR protein–DNA complexes visualized as looped structures. Ayora S, et al. **Mol Gen Genet** 1997 Mar 18;254(1):54–62

Visualization of the subcellular location of sporulation proteins in Bacillus subtilis using immunofluorescence microscopy. Pogliano K, et al. **Mol Microbiol** 1995 Nov; 18(3):459–70

Bipolar localization of a chromosome partition protein in Bacillus subtilis. Lin DCH, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4721–6

VIROLOGY

Cloning and characterization of transcriptional promoters from Bacillus subtilis phage 2C. Daxhelet G, et al. **Can J Microbiol** 1996 Sep;42(9):919–26

Sequential headful packaging and fate of the cleaved DNA ends in bacteriophage SPP1. Tavares P, et al. **J Mol Biol** 1996 Dec 20;264(5):954–67

[Cloning and analysis of prophage PBSX repressor gene from Bacillus subtilis] Li N, et al. **I Chuan Hsueh Pao** 1995; 22(6):478–86 (Eng. Abstr.) **(Chi)**

[Divergence between "early" genes from defective phages of various strains of soil bacilli, close to Bacillus subtilis 168] Lotareva OV, et al. **Genetika** 1997 Jun;33(6):752–6 (Eng. Abstr.) **(Rus)**

BACILLUS THURINGIENSIS

Effects of Bacillus thuringiensis subsp. israelensis (B.t.i.) applications on invertebrates from two streams on Prince Edward Island. McCracken IR, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):291–8

Isolated domain II and III from the Bacillus thuringiensis Cry1Ab delta-endotoxin binds to lepidopteran midgut membranes. Flores H, et al. **FEBS Lett** 1997 Sep 8; 414(2):313–8

Aminopeptidase dependent pore formation of Bacillus thuringiensis Cry1Ac toxin on Trichoplusia ni membranes. Lorence A, et al. **FEBS Lett** 1997 Sep 8;414(2):303–7

Effect of insecticidal crystal proteins of Bacillus thuringiensis on human erythrocytes in vitro. Rani SS, et al. **Indian J Exp Biol** 1996 Dec;34(12):1241–4

Acute toxicity of selected pesticides to the estuarine shrimp Leander tenuicornis (Decapoda:Palaemonidae). Brown MD, et al. **J Am Mosq Control Assoc** 1996 Dec;12(4):721–4

Efficacy of ground ultra-low volume larvicidal treatments using temephos and Bacillus thuringiensis var. israelensis against Culex pipiens larvae. Eritja R, et al. **J Am Mosq Control Assoc** 1995 Dec;11(4):491–4

Ultralow volume application of Bacillus thuringiensis ssp. israelensis for the control of mosquitoes. Lee HL, et al. **J Am Mosq Control Assoc** 1996 Dec;12(4):651–5

Raising activity of Bacillus thuringiensis var. israelensis against Anopheles stephensi larvae by encapsulation in Tetrahymena pyriformis (Hymenostomatida:Tetrahymenidae). Manasherob R, et al. **J Am Mosq Control Assoc** 1996 Dec;12(4):627–31

Evaluation of entomopathogenic bacteria against Aedes polynesiensis, the vector of lymphatic filariasis in French Polynesia. Mercer DR, et al. **J Am Mosq Control Assoc** 1995 Dec;11(4):485–8

Use of Bactimos briquets (B.t.i. formulation) combined with the backswimmer Notonecta irrorata (Hemiptera:Notonectidae) for control of mosquito larvae. Neri-Barbosa JF, et al. **J Am Mosq Control Assoc** 1997 Mar;13(1):87–9

Use of stream width for determining the dosage rates of Bacillus thuringiensis var. israelensis for larval black fly (Diptera: Simuliidae) control. Undeen AH, et al. **J Am Mosq Control Assoc** 1996 Jun;12(2 Pt 1):312–5

Field trials with methoprene, temephos, and Bacillus thuringiensis serovar israelensis for the control of larval Culiseta melanura. Woodrow RJ, et al. **J Am Mosq Control Assoc** 1995 Dec;11(4):424–7

Toxicity of an isolate of Bacillus thuringiensis subspecies darmstadiensis to adults of the Mexican fruit fly (diptera: (Diptera:Tephritidae) in the laboratory. Martinez AJ, et al. **J Econ Entomol** 1997 Feb;90(1):130–4

Parameters influencing potency of Bacillus thuringiensis var. israelensis products. Skovmand O, et al. **J Econ Entomol** 1997 Apr;90(2):361–9

Biological control studies of soft and hard ticks in Egypt. I. The effect of Bacillus thuringiensis varieties on soft and hard ticks (ixodidae). Hassanain MA, et al. **Parasitol Res** 1997;83(3):209–13

Transgenic elite indica rice plants expressing CryIAc delta-endotoxin of Bacillus thuringiensis are resistant against yellow stem borer (Scirpophaga incertulas). Nayak P, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2111–6

Microdroplet application of mosquitocidal Bacillus thuringiensis using ultra-low-volume generator for the control of mosquitos. Seleena P, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):628–32

Community based dengue control in Columbia: people's knowledge and practice and the potential contribution of the biological larvicide Bti (Bacillus thuringiensis israelensis). Kroeger A, et al. **Trop Med Parasitol** 1995 Dec; 46(4):241–6

[Distribution of natural parasites--fungi and microsporidia--in the population of malaria mosquito (Diptera: Culicidae) larva before and after infection by the entomopathogenic bacteria Bacillus thuringiensis Israelensis. Burlak VA, et al. **Parazitologiia** 1997 Jan–Feb; 31(1):45–52 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Synergistic activity of a Bacillus thuringiensis delta-endotoxin and a bacterial endochitinase against Spodoptera littoralis larvae. Regev A, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3581–6

The Bacillus thuringiensis vegetative insecticidal protein Vip3A lyses midgut epithelium cells of susceptible insects. Yu CG, et al. **Appl Environ Microbiol** 1997 Feb;63(2):532–6

Involvement of two amino acid residues in the loop region of Bacillus thuringiensis Cry1Ab toxin in toxicity and binding to Lymantria dispar. Lee MK, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):139–46

Marginal cross-resistance to mosquitocidal Bacillus thuringiensis strains in Cry11A-resistant larvae: presence of Cry11A-like toxins in these strains. Cheong H, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):419–24

Cytolytic activity of Bacillus thuringiensis CryIC and CryIAc toxins to Spodoptera sp. midgut epithelial cells in vitro. Wang SW, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):315–23

Proteinase-mediated insect resistance to Bacillus thuringiensis toxins. Oppert B, et al. **J Biol Chem** 1997 Sep 19;272(38):23473–6

Distribution and characterization of Bacillus thuringiensis in the environment of the olive in Greece. Aptosoglou SG, et al. **New Microbiol** 1997 Jan;20(1):69–76

[Thermodynamic analysis of domain organization of Bacillus thuringiensis toxins] Loseva OI, et al. **Bioorg Khim** 1996 Dec;22(12):900–6 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Modulation of the cleavage of glycosylphosphatidylinositol-anchored proteins by specific bacterial phospholipases. Sharom FJ, et al. **Biochem Cell Biol** 1996;74(5):701–13

Activation of phosphatidylinositol-specific phospholipase C toward inositol 1,2-(cyclic)-phosphate. Zhou C, et al. **Biochemistry** 1997 Jan 14;36(2):347–55

High-level expression of Bacillus thuringiensis phosphatidylinositol-specific phospholipase C by the Bacillus brevis host-vector system. Kobayashi T, et al. **Jpn J Med Sci Biol** 1996 Jun;49(3):103–12

GENETICS

Cloning of novel enterotoxin genes from Bacillus cereus and Bacillus thuringiensis. Asano SI, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1054–7

Engineering Bacillus thuringiensis bioinsecticides with an indigenous site-specific recombination system. Baum JA, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4367–73

Cloning and characterization of a cytolytic and mosquitocidal delta-endotoxin from Bacillus thuringiensis subsp. jegathesan. Cheong H, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3254–60

Cloning of the nprA gene for neutral protease A of Bacillus thuringiensis and effect of in vivo deletion of nprA on insecticidal crystal protein. Donovan WP, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2311–7

Identification and characterization of a previously undescribed cyt gene in Bacillus thuringiensis subsp. israelensis. Guerchicoff A, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2716–21

PCR-based approach for detection of novel Bacillus thuringiensis cry genes. Juárez-Pérez VM, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2997–3002

Identification of novel cry-type genes from Bacillus thuringiensis strains on the basis of restriction fragment length polymorphism of the PCR-amplified DNA. Kuo WS, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1369–77

A recombinase-mediated system for elimination of antibiotic resistance gene markers from genetically engineered Bacillus thuringiensis strains. Sanchis V, et al. **Appl Environ Microbiol** 1997 Feb;63(2):779–84

Biochemical and molecular characterization of the insecticidal fragment of CryV. Sekar V, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2798–801

Unique regulation of crystal protein production in Bacillus thuringiensis subsp. yunnanensis is mediated by the cry protein-encoding 103-megadalton plasmid. Srinivas G, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2792–7

Identification of a gene for Cyt1A-like hemolysin from Bacillus thuringiensis subsp. medellin and expression in a crystal-negative B. thuringiensis strain. Thiery I, et al. **Appl Environ Microbiol** 1997 Feb;63(2):468–73

Introduction and expression of an anti-dipteran toxin gene from B. thuringiensis in nodulating Rhizobia. Guerchicoff A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul; 42(5):729–35

Is Bt better? [news] **Environ Health Perspect** 1997 May; 105(5):472–3

Phage display of Bacillus thuringiensis CryIA(a) insecticidal toxin. Marzari R, et al. **FEBS Lett** 1997 Jul 7;411(1):27–31

A novel delta-endotoxin gene cryIM from Bacillus thuringiensis ssp. wuhanensis. Shevelev AB, et al. **FEBS Lett** 1997 Mar 10;404(2–3):148–52

The chromosome map of Bacillus thuringiensis subsp. canadensis HD224 is highly similar to that of the Bacillus cereus type strain ATCC 14579. Carlson CR, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):163–7

Isolation of Cry1Ab protein mutants of Bacillus thuringiensis by a highly efficient PCR site-directed mutagenesis system. Meza R, et al. **FEMS Microbiol Lett** 1996 Dec 15; 145(3):333–9

Influence of the 20-kDa protein from Bacillus thuringiensis ssp. israelensis on the rate of production of truncated Cry1C proteins. Rang C, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):261–4

Discrimination between Bacillus cereus and Bacillus thuringiensis using specific DNA probes based on variable regions of 16S rRNA. te Giffel MC, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):47–51

Probing the mechanism of action of Bacillus thuringiensis insecticidal proteins by site-directed mutagenesis--a minireview. Dean DH, et al. **Gene** 1996 Nov 7;179(1):111–7 (25 ref.)

Expression of chitinase-encoding genes from Aeromonas hydrophila and Pseudomonas maltophilia in Bacillus thuringiensis subsp. israelensis. Wiwat C, et al. **Gene** 1996 Nov 7;179(1):119–26

Identification of a second transcriptional start site for the insecticidal protein gene cryIVA of Bacillus thuringiensis subsp. israelensis. Yoshisue H, et al. **Gene** 1997 Feb 7; 185(2):251–5

Phylogenetic relationships of Bacillus thuringiensis delta-endotoxin family proteins and their functional domains. Bravo A. **J Bacteriol** 1997 May;179(9):2793–801 (54 ref.)

Nucleotide sequence and characterization of the cryptic Bacillus thuringiensis plasmid pGI3 reveal a new family of rolling circle replicons. Hoflack L, et al. **J Bacteriol** 1997 Aug;179(16):5000–8

Regulatory sequences of two flagellin genes in Bacillus thuringiensis subsp. alesti. Ankarloo J, et al. **Microbiology** 1996 Feb;142 (Pt 2):315–20

Diversity and differential distribution of IS231, IS232 and IS240 among Bacillus cereus, Bacillus thuringiensis and Bacillus mycoides. Léonard C, et al. **Microbiology** 1997 Aug;143 (Pt 8):2537–47

Spo0A represses transcription of the cry toxin genes in Bacillus thuringiensis. Poncet S, et al. **Microbiology** 1997 Aug;143 (Pt 8):2743–51

Mapping of the entomocidal fragment of Spodoptera-specific Bacillus thuringiensis toxin CryIC [published erratum appears in Mol Gen Genet 1997 Feb 27;253(6):777] Strizhov N, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):11–9

STAB-SD: a Shine-Dalgarno sequence in the 5' untranslated region is a determinant of mRNA stability. Agaisse H, et al. **Mol Microbiol** 1996 May;20(3):633–43

Specific sequence modifications of a cry3B endotoxin gene result in high levels of expression and insect resistance. Iannacone R, et al. **Plant Mol Biol** 1997 Jun;34(3):485–96

Genetic transformation, recovery, and characterization of fertile soybean transgenic for a synthetic Bacillus thuringiensis cryIAc gene. Stewart CN Jr, et al. **Plant Physiol** 1996 Sep;112(1):121–9

Mobilization of "nonmobilizable" plasmids by the aggregation-mediated conjugation system of Bacillus thuringiensis. Andrup L, et al. **Plasmid** 1996 Sep; 36(2):75–85

Identification of two sequence elements associated with the gene encoding the 24-kDa crystalline component in Bacillus thuringiensis ssp. fukuokaensis: an example of transposable element archaeology. Dunn MG, et al. **Plasmid** 1997;37(3):205–15

Functional comparison of conjugative transposons Tn916 and Tn925. Showsh SA, et al. **Plasmid** 1996 May;35(3):164–73

Expression of a Bacillus thuringiensis cryIA(c) gene in transgenic peanut plants and its efficacy against lesser cornstalk borer. Singsit C, et al. **Transgenic Res** 1997 Mar; 6(2):169–76

[Construction of shuttle vector containing delta-endotoxin gene of Bacillus thuringiensis] Sun L, et al. **Wei Sheng Wu Hsueh Pao** 1996 Feb;36(1):69–72 (Eng. Abstr.) **(Chi)**

[Extrachromosomal DNA spectrum of Bacillus thuringiensis Berliner and Bacillus sphaericus Meyer et Neide] Chichian VG, et al. **Genetika** 1997 Mar;33(3):308–13 (Eng. Abstr.) **(Rus)**

[Comparative study of 3 heterologous expression systems for obtaining recombinant Bacillus thuringiensis

delta-endotoxins] Vázquez R, et al. **Rev Latinoam Microbiol** 1995 Jul-Sep;37(3):237-44 (Eng. Abstr.) **(Spa)**

GROWTH & DEVELOPMENT

A carbon-limited medium for growth and sporulation of Bacillus thuringiensis var. kurstaki. Liu WM, et al. **Hindustan Antibiot Bull** 1995 Feb-Nov;37(1-4):1-8

Effect of inactivation by sunlight on the larvicidal activities of mosquitocidal Bacillus thuringiensis H-14 isolates from Nigerian soils. Obeta JA. **J Commun Dis** 1996 Jun; 28(2):94-100

[The use of electro-optic method for control of biological preparations] Voloshin AG, et al. **Prikl Biokhim Mikrobiol** 1996 Nov-Dec;32(6):669-70 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

A new serovar of Bacillus thuringiensis possessing 28a28c flagellar antigenic structure: Bacillus thuringiensis serovar jegathesan, selectively toxic against mosquito larvae. Seleena P, et al. **J Am Mosq Control Assoc** 1995 Dec; 11(4):471-3

ISOLATION & PURIFICATION

Characterization of Bacillus thuringiensis isolated from infections in burn wounds. Damgaard PH, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):47-53

A 16S rRNA gene oligonucleotide probe for identification of Bacillus thuringiensis isolates from sheep fleece. Akhurst RJ, et al. **J Invertebr Pathol** 1997 Jan;69(1):24-30

Distribution and characterization of Bacillus thuringiensis in the environment of the olive in Greece. Aptosoglou SG, et al. **New Microbiol** 1997 Jan;20(1):69-76

METABOLISM

Cloning of the nprA gene for neutral protease A of Bacillus thuringiensis and effect of in vivo deletion of nprA on insecticidal crystal protein. Donovan WP, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2311-7

Ligand specificity and affinity of BT-R1, the Bacillus thuringiensis Cry1A toxin receptor from Manduca sexta, expressed in mammalian and insect cell cultures. Keeton TP, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3419-25

Biochemical and molecular characterization of the insecticidal fragment of CryV. Sekar V, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2798-801

Unique regulation of crystal protein production in Bacillus thuringiensis subsp. yunnanensis is mediated by the cry protein-encoding 103-megadalton plasmid. Srinivas G, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2792-7

Palatability of leaf material contaminated with Bacillus thuringiensis var. kurstaki, to Hydatophylax argus, a detritivorous aquatic insect. Kreutzweiser DP, et al. **Bull Environ Contam Toxicol** 1996 Jan;56(1):80-4

Functional effects of the bacterial insecticide Bacillus thuringiensis var. kurstaki on aquatic microbial communities. Kreutzweiser DP, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):271-80

Analysis of the large aqueous pores produced by a Bacillus thuringiensis protein insecticide in Manduca sexta midgut-brush-border-membrane vesicles. Carroll J, et al. **Eur J Biochem** 1997 May 1;245(3):797-804

Simultaneous production of the 34-kDa and 40-kDa proteins from Bacillus thuringiensis subsp. thompsoni is required for the formation of inclusion bodies. Rang C, et al. **FEBS Lett** 1997 Aug 4;412(3):587-91

Ion channels formed in planar lipid bilayers by Bacillus thuringiensis toxins in the presence of Manduca sexta midgut receptors. Schwartz JL, et al. **FEBS Lett** 1997 Jul 28;412(2):270-6

Restriction of intramolecular movements within the Cry1Aa toxin molecule of Bacillus thuringiensis through disulfide bond engineering. Schwartz JL, et al. **FEBS Lett** 1997 Jun 30;410(2-3):397-402

Influence of the 20-kDa protein from Bacillus thuringiensis ssp. israelensis on the rate of production of truncated Cry1C proteins. Rang C, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2-3):261-4

Luminal proteinases from Plodia interpunctella and the hydrolysis of Bacillus thuringiensis CryIA(c) protoxin. Oppert B, et al. **Insect Biochem Mol Biol** 1996 Jun; 26(6):571-83

Nitric oxide and TNF-alpha production by murine peritoneal macrophages activated with a novel 20-kDa protein isolated from Bacillus thuringiensis var. thuringiensis parasporal bodies. Gomez-Flores R, et al. **J Immunol** 1997 Apr 15;158(8):3796-9

Interactions of Bacillus thuringiensis crystal proteins with the midgut epithelial cells of Spodoptera frugiperda (Lepidoptera: Noctuidae). Aranda E, et al. **J Invertebr Pathol** 1996 Nov;68(3):203-12

A new tissue technique for evaluating effects of Bacillus thuringiensis toxins on insect midgut epithelium. Braun L, et al. **J Invertebr Pathol** 1997 Mar;69(2):92-104

Intramolecular proteolytic cleavage of Bacillus thuringiensis Cry3A delta-endotoxin may facilitate its coleopteran toxicity. Carroll J, et al. **J Invertebr Pathol** 1997 Jul; 70(1):41-9

Protein engineering of Bacillus thuringiensis delta-endotoxin: mutations at domain II of CryIAb enhance receptor affinity and toxicity toward gypsy moth larvae. Rajamohan F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14338-43

[Sensitivity of dissociation variants of Micrococcus luteus to the action of delta-endotoxins of Bacillus thuringiensis] Iudina TG, et al. **Mikrobiologiia** 1996 May-Jun;65(3):365-9 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

The insecticidal proteins of Bacillus thuringiensis. Kumar PA, et al. **Adv Appl Microbiol** 1996;42:1-43 (311 ref.)

Laboratory screening of different Bacillus thuringiensis strains against certain lepidopteran pests and subsequent field evaluation on the pod boring pest complex of pigeonpea (Cajanus cajan). Puntambekar US, et al. **Antonie Van Leeuwenhoek** 1997 May;71(4):319-23

Effect of Bacillus thuringiensis toxins on the membrane potential of lepidopteran insect midgut cells. Peyronnet O, et al. **Appl Environ Microbiol** 1997 May;63(5):1679-84

Diarrhoeal enterotoxin production by strains of Bacillus thuringiensis isolated from commercial Bacillus thuringiensis-based insecticides. Damgaard PH. **FEMS Immunol Med Microbiol** 1995 Dec;12(3-4):245-50

Larvicidal activity of Bacillus thuringiensis natural isolates; indigenous to Japan, against two nematoceran insect pests occurring in urban sewage environments. Saitoh H, et al. **Microbiol Res** 1996 Aug;151(3):263-71

[Study on the test and evaluation of the toxicity of the strains preparation of the different subspecies of Bacillus thuringiensis and on the research into its standardization] Li Y, et al. **Wei Sheng Wu Hsueh Pao** 1996 Apr; 36(2):138-43 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

Cell integrity markers for in vitro evaluation of cytotoxic responses to bacteria-containing commercial insecticides. Tayabali AF, et al. **Ecotoxicol Environ Saf** 1997 Jul; 37(2):152-62

Field trial of bacticide on larval populations of two species of vector mosquitoes in Calcutta. Biswas D, et al. **Indian J Malariol** 1997 Mar;34(1):37-41

Field evaluation of Bacillus sphaericus, H5a5b and B. thuringiensis var. israelensis, H-14 against the Bancroftian filariasis vector Culex quinquefasciatus, Say in Chennai, India. Kar I, et al. **Indian J Malariol** 1997 Mar;34(1):25-36

Biochemical, immunological and toxicological characteristics of the crystal proteins of Bacillus thuringiensis subsp. medellin. Orduz S, et al. **Mem Inst Oswaldo Cruz** 1996 Mar-Apr;91(2):231-7

RADIATION EFFECTS

Effect of inactivation by sunlight on the larvicidal activities of mosquitocidal Bacillus thuringiensis H-14 isolates from Nigerian soils. Obeta JA. **J Commun Dis** 1996 Jun; 28(2):94-100

VIROLOGY

[Morphologic characterization and protein analysis of phages isolated from type strains of Bacillus thuringiensis] Azizbekian KR, et al. **Mikrobiologiia** 1997 Mar-Apr; 66(2):242-6 (Eng. Abstr.) **(Rus)**

[Restriction analysis of DNA from phages isolated from type strains of Bacillus thuringiensis] Azizbekian KR, et al. **Mikrobiologiia** 1997 Mar-Apr;66(2):247-53 (Eng. Abstr.) **(Rus)**

BACITRACIN

ANALYSIS

Liquid chromatographic analysis of bacitracin methylene disalicylate in feed. Webster GK. **J AOAC Int** 1997 Jul-Aug;80(4):732-5

CHEMISTRY

Three dimensional structure of the antibiotic bacitracin A complexed to two different subtilisin proteases: novel mode of enzyme inhibition. Pfeffer-Hennig S, et al. **Adv Exp Med Biol** 1996;379:29-41

IMMUNOLOGY

Anaphylaxis to topical bacitracin. Dyck ED, et al. **Allergy** 1997 Aug;52(8):870-1

PHARMACOLOGY

Clinical investigation of topical antimicrobials in healthy volunteers. Langford JH, et al. **Ann Pharmacother** 1997 Jan;31(1):34-8

The influence of Lactobacillus acidophilus and bacitracin on layer performance of chickens and cholesterol content of plasma and egg yolk. Abdulrahim SM, et al. **Br Poult Sci** 1996 May;37(2):341-6

The bioefficacy of zinc bacitracin in practical diets for broilers and laying hens. Huyghebaert G, et al. **Poult Sci** 1997 Jun;76(6):849-56

THERAPEUTIC USE

Topical antimicrobial prophylaxis in minor wounds. Langford JH, et al. **Ann Pharmacother** 1997 May; 31(5):559-63

Use of bacitracin therapy for infection due to vancomycin-resistant Enterococcus faecium. Chia JK, et al. **Clin Infect Dis** 1995 Dec;21(6):1520

Lasers and allergic contact dermatitis to topical antibiotics, with particular reference to bacitracin [news] Fisher AA. **Cutis** 1996 Oct;58(4):252-4

Topical ointments and wound healing. Thakur N. **J Fam Pract** 1997 Jan;44(1):26-7

Mupirocin-resistant methicillin-resistant Staphylococcus aureus [letter; comment] Ambler JE, et al. **J Hosp Infect** 1996 Jan;32(1):71-82. Comment on: J Hosp Infect 1994 Sep;28(1):75-8.

Comparison of oral cephalexin, topical mupirocin and topical bacitracin for treatment of impetigo. Bass JW, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):708-10

Effect of roxarsone and bacitracin methylene disalicylate on the development of immunity to Eimeria in broilers given a live coccidiosis vaccine. Chapman HD, et al. **Poult Sci** 1996 Dec;75(12):1488-92

BACK

The medullary reticular formation is a site of muscle relaxant action of diazepam on deep back and neck muscles in the female rat. Schwartz-Giblin S, et al. **Brain Res** 1996 Feb 26;710(1-2):178-88

Correlation of trunk muscle strength with age in children 5 to 18 years old. Sinaki M, et al. **Mayo Clin Proc** 1996 Nov;71(11):1047-54

Papular eruption on the elbows and trunk in an infant [clinical conference] Patrizi A, et al. **Pediatr Dermatol** 1997 Mar-Apr;14(2):151-3

Surgical treatment of large cutaneous lesions of the back in children by concentric cutaneous mobilization. Chrétien-Marquet B, et al. **Plast Reconstr Surg** 1997 Sep; 100(4):926-36

INJURIES

Design factors in epidemiologic cohort studies of work-related low back injury or pain. Kraus JF, et al. **Am J Ind Med** 1997 Aug;32(2):153-63 (50 ref.)

A growing physical workload threatens nurses' health. Helmlinger C. **Am J Nurs** 1997 Apr;97(4):64-6

Minimal forces to move patients. Zelenka JP, et al. **Am J Occup Ther** 1996 May;50(5):354-61

Stab wounds to the back and flank in the hemodynamically stable patient: a decision algorithm based on contrast-enhanced computed tomography with colonic opacification. Kirton OC, et al. **Am J Surg** 1997 Mar; 173(3):189-93

A selective approach to the management of gunshot wounds to the back. Velmahos GC, et al. **Am J Surg** 1997 Sep; 174(3):342-6

Anthropometric measurements and ejection injuries. Edwards M. **Aviat Space Environ Med** 1996 Dec; 67(12):1144-7

Somatotype in high performance female netball players may influence player position and the incidence of lower limb and back injuries. Hopper DM. **Br J Sports Med** 1997 Sep; 31(3):197-9

Prediction of injury in female netball players. Macera C. **Clin J Sport Med** 1996 Jan;6(1):67

A comparison of risk assessment of single and combination manual handling tasks: 1. maximum acceptable weight measures [published erratum appears in Ergonomics 1997 Jun;40(6):656] Straker LM, et al. **Ergonomics** 1996 Jan; 39(1):128-40

Managed care preapproval and its effect on the cost of Utah worker compensation claims. Jarvis KB, et al. **J Manipulative Physiol Ther** 1997 Jul-Aug;20(6):372-6

Diagnosis of injuries after stab wounds to the back and flank. Boyle EM Jr, et al. **J Trauma** 1997 Feb;42(2):260-5

A controlled trial of an educational program to prevent low back injuries [see comments] Daltroy LH, et al. **N Engl J Med** 1997 Jul 31;337(5):322-8. Comment in: N Engl J Med 1997 Jul 31;337(5):341-3.

Workers with disabling back pain [editorial; comment] Hadler NM. **N Engl J Med** 1997 Jul 31;337(5):341-3. Comment on: N Engl J Med 1997 Jul 31;337(5):322-8.

Electromyography and chronic pain: do current electromyographic diagnostic techniques discriminate against injured female workers? Biedermann HJ, et al. **Percept Mot Skills** 1996 Aug;83(1):28-30

Early prediction of chronic disability after occupational low back injury. Hazard RG, et al. **Spine** 1996 Apr 15; 21(8):945-51

Back muscle injury after posterior lumbar spine surgery. A histologic and enzymatic analysis. Kawaguchi Y, et al. **Spine** 1996 Apr 15;21(8):941-4

Relationship of lumbar strength in shipyard workers to workplace injury claims. Mooney V, et al. **Spine** 1996 Sep 1;21(17):2001-5

Learning effects of a back education program. Schenk RJ, et al. **Spine** 1996 Oct 1;21(19):2183-8; discussion 2189

PARASITOLOGY

Dermatobia hominis in the accident and emergency department: "I've got you under my skin". MacNamara A, et al. **J Accid Emerg Med** 1997 May;14(3):179-80

BACK

PATHOLOGY

Macular posterior pigmentary incontinence: its relation to macular amyloidosis and notalgia paresthetica [see comments] Westermark P, et al. **Acta Derm Venereol** 1996 Jul;76(4):302–4. Comment in: Acta Derm Venereol 1997 Mar;77(2):164.

Ossifying fibromyxoid tumor of soft parts of the back. Nakayama F, et al. **J Cutan Pathol** 1996 Aug;23(4):385–8

Dermatofibroma with granular cells. Val-Bernal JF, et al. **J Cutan Pathol** 1996 Dec;23(6):562–5

Nuchal fibroma. Abraham Z, et al. **J Dermatol** 1997 Apr; 24(4):262–5

Construction of surface models of the human trunk. Durdle NG, et al. **Med Biol Eng Comput** 1997 Jan;35(1):73–5

Images in clinical medicine. Consequences of cupping [see comments] Manber H, et al. **N Engl J Med** 1996 Oct 24; 335(17):1281. Comment in: N Engl J Med 1997 Apr 10;336(15):1109.

Consequences of cupping [letter; comment] Seicol NH. **N Engl J Med** 1997 Apr 10;336(15):1109. Comment on: N Engl J Med 1996 Oct 24;335(17):1281.

PHYSIOLOGY

Physical activity and four-year development of back strength in children. Newcomer K, et al. **Am J Phys Med Rehabil** 1997 Jan–Feb;76(1):52–8

Dynamic electromyographic analysis of trunk musculature in professional golfers. Watkins RG, et al. **Am J Sports Med** 1996 Jul–Aug;24(4):535–8

Flexion relaxation of the hamstring muscles during lumbar-pelvic rhythm. Sihvonen T. **Arch Phys Med Rehabil** 1997 May;78(5):486–90

A comparison of trunk extensor strength and squat lifting ability. Roberson JM, et al. **J Orthop Sports Phys Ther** 1997 Feb;25(2):137–44

Study of isometric lifting strength in normal Chinese adults. Lin JH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jul;12(7):400–8

Low back loads over a variety of abdominal exercises: searching for the safest abdominal challenge. Axler CT, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):804–11

The effects of effleurage backrub on the physiological components of relaxation: a meta-analysis. Labyak SE, et al. **Nurs Res** 1997 Jan–Feb;46(1):59–62

Electromyographic amplitude and frequency changes in the iliocostalis lumborum and multifidus muscles during a trunk holding test. Ng JK, et al. **Phys Ther** 1997 Sep;77(9):954–61

The validity and reliability of the back saver sit-and-reach test in middle school girls and boys. Patterson P, et al. **Res Q Exerc Sport** 1996 Dec;67(4):448–51

Sagittal back motion of college football athletes and nonathletes. Strong LR, et al. **Spine** 1997 Aug 1; 22(15):1755–9

PHYSIOPATHOLOGY

Low back pain and its relationship to back strength and physical activity in children. Newcomer K, et al. **Acta Paediatr** 1996 Dec;85(12):1433–9

Isokinetic performance capacity of trunk muscles. Part I: The effect of repetition on measurement of isokinetic performance capacity of trunk muscles among healthy controls and two different groups of low-back pain patients. Hupli M, et al. **Scand J Rehabil Med** 1996 Dec; 28(4):201–6

Isokinetic performance capacity of trunk muscles. Part II: Coefficient of variation in isokinetic measurement in maximal effort and in submaximal effort. Luoto S, et al. **Scand J Rehabil Med** 1996 Dec;28(4):207–10

SURGERY

Cost-effectiveness of long-term intrathecal morphine therapy for pain associated with failed back surgery syndrome. de Lissovoy G, et al. **Clin Ther** 1997 Jan–Feb; 19(1):96–112; discussion 84–5

The influence of psychological variables on postoperative anxiety and physical complaints in patients undergoing lumbar surgery. de Groot KI, et al. **Pain** 1997 Jan; 69(1–2):19–25

Brain heterotopia: choristoma of the back. Downing MT, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):183–5

The failed back surgery syndrome: reasons, intraoperative findings, and long-term results: a report of 182 operative treatments. Fritsch EW, et al. **Spine** 1996 Mar 1; 21(5):626–33

BACK PAIN

see related

LOW BACK PAIN

Referral delay in back pain patients on worker's compensation. Gallagher RM, et al. **Psychosomatics** 1996 May–Jun;37(3):270–84

The Cochrane Collaboration Back Review Group for spinal disorders [editorial] Bombardier C, et al. **Spine** 1997 Apr 15;22(8):837–40

[Back pain school] Bendix T, et al. **Ugeskr Laeger** 1997 Aug 25;159(35):5224–6 **(Dan)**

[Back pain--a current challenge (editorial)] Jensen EM. **Ugeskr Laeger** 1997 Aug 25;159(35):5213 **(Dan)**

[Back pain in children and adolescents] Ezra E, et al. **Harefuah** 1996 Jun 16;130(12):858–62 (51 ref.) **(Heb)**

[Occupational dangers to health of nursing staffs in hemodialysis units] Washio M, et al. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):239–45 (20 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Plasma tryptophan levels in the patients with cervicobrachial and lumbosacral pain syndromes. Milovanovic DD, et al. **Adv Exp Med Biol** 1996;398:107–11

Serum relaxin, symphyseal pain, and back pain during pregnancy. Kristiansson P, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1342–7

CHEMICALLY INDUCED

Caffeine and chronic back pain [see comments] McPartland JM, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):61–3. Comment in: Arch Phys Med Rehabil 1997 Jul;78(7):786.

Finding of relation between epidural anaesthesia and long-term backache remains valid [letter] MacArthur C, et al. **BMJ** 1997 Sep 13;315(7109):679

Do epidurals cause back pain? Buggy D, et al. **Br J Hosp Med** 1996 Jul 10–Aug 20;56(2–3):99–101 (18 ref.)

Glucocorticoids: their role on gonadal function and LH secretion. Contreras LN, et al. **Minerva Endocrinol** 1996 Jun;21(2):43–6

CLASSIFICATION

Rationalizing back pain: the development of a classification system through cluster analysis. Langworthy JM, et al. **J Manipulative Physiol Ther** 1997 Jun;20(5):303–10

COMPLICATIONS

A retired postal worker with back pain and leg weakness. Parnassa DT, et al. **Hosp Pract (Off Ed)** 1997 Jun 15; 32(6):25–8

Chronic back pain and substance abuse [letter; comment] Ryan J. **J Fam Pract** 1997 Jan;44(1):17–8. Comment on: J Fam Pract 1996 Aug;43(2):152–60.

[Epidural abscess: a complication of the use of corticoids in the treatment for back pain] de Andrés J, et al. **Rev Esp Anestesiol Reanim** 1997 Apr;44(4):164–5 **(Spa)**

DIAGNOSIS

Back pain in children. Hollingworth P. **Br J Rheumatol** 1996 Oct;35(10):1022–8 (64 ref.)

Back pain in a 43-year-old man. Archer TP, et al. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):104–6

Tissue characterization of symptomatic and asymptomatic disc herniations by quantitative magnetic resonance imaging. Boos N, et al. **J Orthop Res** 1997 Jan;15(1):141–9

Diagnostic spinal injection procedures. Kinard RE. **Neurosurg Clin N Am** 1996 Jan;7(1):151–65 (50 ref.)

Diagnostic obturator nerve block for inguinal and back pain: a recovered opinion. Hong Y, et al. **Pain** 1996 Oct; 67(2–3):507–9

A new protocol for back pain. Stevens RJ, et al. **Practitioner** 1997 Jun;241(1575):351–4 (2 ref.)

An epidemiological study of diagnostic and therapeutic strategies in office practice patients with subacute or chronic pain in the thoracic or low back. Comparison of practices in primary care and rheumatology settings. Dreiser RL, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):26–34

Spinoscope's performance [letter; comment] Gracovetsky SA, et al. **Spine** 1997 Feb 1;22(3):360–1. Comment on: Spine 1996 Jun 1;21(11):1325–30; discussion 1331.

[Diagnosis of back pain] Bentsen HK, et al. **Ugeskr Laeger** 1997 Aug 25;159(35):5219–21 **(Dan)**

[Vertebral pain in advanced age: radiological diagnosis] Zanetti M, et al. **Schweiz Rundsch Med Prax** 1996 Oct 22; 85(43):1360–72 (29 ref.) (Eng. Abstr.) **(Ger)**

[Two types of back pain during pregnancy: lumbar pain and pelvic pain (see comments)] Ostgaard HC. **Lakartidningen** 1997 Jan 22;94(4):233–5. Comment in: Lakartidningen 1997 Mar 26;94(13):1168, 1171. **(Swe)**

DRUG THERAPY

Evaluation of continuous intraspinal narcotic analgesia for chronic pain from benign causes. Yoshida GM, et al. **Am J Orthop** 1996 Oct;25(10):693–4

The value of SPECT scans in identifying back pain likely to benefit from facet joint injection. Dolan AL, et al. **Br J Rheumatol** 1996 Dec;35(12):1269–73

Cost-effectiveness of long-term intrathecal morphine therapy for pain associated with failed back surgery syndrome. de Lissovoy G, et al. **Clin Ther** 1997 Jan–Feb; 19(1):96–112; discussion 84–5

Effects of intrathecal baclofen on chronic spinal cord injury pain. Loubser PG, et al. **J Pain Symptom Manage** 1996 Oct;12(4):241–7

Membranous nephropathy associated with oxaprozin treatment [letter] Ogawa M, et al. **Nephron** 1996; 74(2):439–40

Prospective, multicenter study of spinal cord stimulation for relief of chronic back and extremity pain. Burchiel KJ, et al. **Spine** 1996 Dec 1;21(23):2786–94

[Analgesic effect and clinical tolerability of the combination of paracetamol 500 mg and caffeine 50 mg versus paracetamol 400 mg and dextropropoxyphene 30 mg in back pain] Kuntz D, et al. **Presse Med** 1996 Sep 7; 25(25):1171–4 (Eng. Abstr.) **(Fre)**

[Clonidine for intrathecal pain therapy] Zenz M. **Dtsch Med Wochenschr** 1996 Oct 25;121(43):1345 **(Ger)**

[Continuous epidural blockade as a method of treatment of low back pain syndrome in the course of disk pathology. Introductory research] Wolny T, et al. **Neurol Neurochir Pol** 1996 May–Jun;30(3):409–18 (Eng. Abstr.) **(Pol)**

ECONOMICS

Back pain in primary care: predictors of high health-care costs. Engel CC, et al. **Pain** 1996 May–Jun;65(2–3):197–204

Average hospital charges for medical and surgical treatment of back problems: United States, 1993. Mushinski M. **Stat Bull Metrop Insur Co** 1995 Apr–Jun;76(2):26–35

EPIDEMIOLOGY

Challenges in assessing risk factors in epidemiologic studies on back disorders. Burdorf A, et al. **Am J Ind Med** 1997 Aug;32(2):142–52

Factors affecting first return to work following a compensable occupational back injury. Oleinick A, et al. **Am J Ind Med** 1996 Nov;30(5):540–55

Prevalence of back pain and characteristics of the physical workload of community nurses. Knibbe JJ, et al. **Ergonomics** 1996 Feb;39(2):186–98

Prevalence of self-reported back pain in school children: a study of sociodemographic differences. Kristjánsdóttir G. **Eur J Pediatr** 1996 Nov;155(11):984–6

Correlates of back problems and back-related disability in the United States. Hurwitz EL, et al. **J Clin Epidemiol** 1997 Jun;50(6):669–81

Persistent back pain and sciatica in the United States: patient characteristics. Long DM, et al. **J Spinal Disord** 1996 Feb; 9(1):40–58

Incidence of back pain after lumbar epidural anaesthesia for non-obstetric surgery--a preliminary report. Chan ST. **Med J Malaysia** 1995 Sep;50(3):241–5

Chronic back disability: USAF officers at separation and exposure to +Gz. Voge VM, et al. **Mil Med** 1996 Apr; 161(4):221–4

Relapse and short sickness absence for back pain in the six months after return to work. Infante-Rivard C, et al. **Occup Environ Med** 1997 May;54(5):328–34

Abdominal sequelae after pedicled TRAM flap breast reconstruction. Petit JY, et al. **Plast Reconstr Surg** 1997 Mar;99(3):723–9

Has musculoskeletal pain become less prevalent? Manninen P, et al. **Scand J Rheumatol** 1996;25(1):37–41

Prevalence of pain combinations and overall pain: a study of headache, stomach pain and back pain among school-children. Kristjánsdóttir G. **Scand J Soc Med** 1997 Mar;25(1):58–63

Sickness absence from back pain, psychosocial work characteristics and employment grade among office workers. Hemingway H, et al. **Scand J Work Environ Health** 1997 Apr;23(2):121–9

Psychosocial job factors associated with back and neck pain in public transit operators. Krause N, et al. **Scand J Work Environ Health** 1997 Jun;23(3):179–86

The relation of self-reported back pain to psychosocial, behavioral, and health-related factors in a working population in Switzerland. Foppa I, et al. **Soc Sci Med** 1996 Oct;43(7):1119–26

The association between clinical findings on physical examination and self-reported severity in back pain. Results of a population-based study. Michel A, et al. **Spine** 1997 Feb 1;22(3):296–303; discussion 303–4

Disorders of the back and spine in construction workers. Prevalence and prognostic value for disability. Rothenbacher D, et al. **Spine** 1997 Jul 1;22(13):1481–6

[Back pain problems. Epidemiology] Biering-Sørensen F, et al. **Ugeskr Laeger** 1997 Aug 25;159(35):5215–8 **(Dan)**

[Backache in East and West Germany] Berger-Schmitt R, et al. **Gesundheitswesen** 1996 Oct;58(10):519–24 (Eng. Abstr.) **(Ger)**

ETIOLOGY

MR imaging in recurrent pain after back surgery. A comparative study using standard and high doses of gadolinium contrast agents. Akeson P, et al. **Acta Radiol** 1996 Nov;37(6):858–62

Evaluating the child with back pain. Sponseller PD. **Am Fam Physician** 1996 Nov 1;54(6):1933–41

Piriformis compression causing low back and lower extremity pain [letter; comment] Goldner JL. **Am J Orthop** 1997 May; 26(5):316, 318. Comment on: Am J Orthop 1996 Dec;25(12):819–23.

Painful adult thoracic Scheuermann's disease. Diagnosis by discography and treatment by combined arthrodesis. Winter RB, et al. **Am J Orthop** 1996 Nov;25(11):783–6

A one-year prospective study on back pain among novice golfers. Burdorf A, et al. **Am J Sports Med** 1996 Sep–Oct; 24(5):659–64

Back pain following postoperative epidural analgesia: an indicator of possible spinal infection. Tham EJ, et al. **Anaesth Intensive Care** 1997 Jun;25(3):297–301

Drawing conclusions from Pollock et al.: limitations imposed study design [letter; comment] Drasner K.

Anesthesiology 1996 Dec;85(6):1494–6 (16 ref.). Comment on: Anesthesiology 1996 Jun;84(6):1361–7.

Patterns of ordering diagnostic tests for patients with acute low back pain. The North Carolina Back Pain Project. Carey TS, et al. **Ann Intern Med** 1996 Nov 15; 125(10):807–14

Back pain in the older patient. Baumgartner E, et al. **Ann Rheum Dis** 1996 Sep;55(9):600–2

Retained gallstones: a pain in the back. Draganic BD, et al. **Aust N Z J Surg** 1997 Sep;67(9):662–4

Why does acute back pain become chronic? [editorial] Jayson MI. **BMJ** 1997 Jun 7;314(7095):1639–40

Long–term backache after childbirth. Study should have been randomised [letter; comment] Loughnan BA, et al. **BMJ** 1996 Sep 21;313(7059):755; discussion 755–6. Comment on: BMJ 1996 Jun 1;312(7043):1384–8.

Back pain, pregnancy, and childbirth [editorial] Russell R, et al. **BMJ** 1997 Apr 12;314(7087):1062–3

Long–term backache after childbirth. Potential confounding by obstetric malposition was not considered [letter; comment] Stephens IF. **BMJ** 1996 Sep 21;313(7059):755; discussion 755–6. Comment on: BMJ 1996 Jun 1;312(7043):1384–8.

Back pain in children. Hollingworth P. **Br J Rheumatol** 1996 Oct;35(10):1022–8 (64 ref.)

School Christmas shows ... 'look out the backache is behind you' [letter] [published erratum appears in Br J Rheumatol 1997 Apr;36(4):510] Morris IM. **Br J Rheumatol** 1996 Dec; 35(12):1335–6

Case report: post–traumatic thoracolumbar pseudomeningocoele––an unusual cause of upper lumbar pain. Johnson DB, et al. **Clin Radiol** 1997 Sep;52(9):715–7

Thoracolumbar hernia: a rare cause of back pain. Faraj AA, et al. **Eur Spine J** 1997;6(3):203–4

Back pain among echocardiographers. Solanki M, et al. **Heart** 1997 Aug;78 Suppl 1:23–8

Back pain in a 43–year–old man. Archer TP, et al. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):104–6

A middle–aged woman with back and flank pain. Cruz DN, et al. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):193–4, 199–200, 203, passim (12 ref.)

Back pain in children. Thompson GH. **Instr Course Lect** 1994;43:221–30 (62 ref.)

The prevalence and cause of occupational back pain in Hong Kong registered nurses. French P, et al. **J Adv Nurs** 1997 Aug;26(2):380–8

The prevalence of back pain in children who have idiopathic scoliosis. Ramirez N, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):364–8

Vertebral fractures and other predictors of back pain among older women. Huang C, et al. **J Bone Miner Res** 1996 Jul; 11(7):1026–32

A 52–year–old woman complaining of back pain. Hada Y. **J Cardiol** 1996 Feb;27(2):85–87

An unusual cause for lumbar radiculopathy: a synovial facet joint cyst of the right L5 joint. Bougie JD, et al. **J Manipulative Physiol Ther** 1996 Jan;19(1):48–51

The interaction of wearing multifocal lenses with head posture and pain. Willford CH, et al. **J Orthop Sports Phys Ther** 1996 Mar;23(3):194–9

A potentially underrecognized and treatable cause of chronic back pain: entrapment neuropathy of the cluneal nerves. Berthelot JM, et al. **J Rheumatol** 1996 Dec;23(12):2179–81

Painful scoliosis. Hoeffel C, et al. **Klin Padiatr** 1997 Mar–Apr; 209(2):78–83 (6 ref.)

Nerve ingrowth into diseased intervertebral disc in chronic back pain. Freemont AJ, et al. **Lancet** 1997 Jul 19; 350(9072):178–81

Spine problems in the athlete. Stinson JT. **Md Med J** 1996 Aug;45(8):655–8 (25 ref.)

Re: Back pain in the workplace management of disability in nonspecific conditions, Wilbert E. Fordyce (Ed.), task force on pain in the workplace, IASP Press, Seattle, WA, 1995 [letter] Teasell RW. **Pain** 1996 Apr;65(1):112–4

Re: Back pain in the workplace [letter] Waddell G. **Pain** 1996 Apr;65(1):114

Postoperative back pain. Worthy SA, et al. **Postgrad Med J** 1996 Nov;72(853):697–9

Back pain following epidural anesthesia with 2–chloroprocaine (EDTA–free) or lidocaine [see comments] Drolet P, et al. **Reg Anesth** 1997 Jul–Aug; 22(4):303–7. Comment in: Reg Anesth 1997 Jul–Aug;22(4):299–302.

Patterns of pain induced by distending the thoracic zygapophyseal joints. Fukui S, et al. **Reg Anesth** 1997 Jul–Aug;22(4):332–6

Postdural puncture headache and back pain after spinal anesthesia with 27–gauge Quincke and 26–gauge Atraucan needles. Schultz AM, et al. **Reg Anesth** 1996 Sep–Oct; 21(5):461–4

Back pain following epidural anesthesia with 2–chloroprocaine [editorial; comment] Stevens RA. **Reg Anesth** 1997 Jul–Aug;22(4):299–302. Comment on: Reg Anesth 1997 Jul–Aug;22(4):303–7.

Stress fracture of the second rib as a cause of back pain. Nikkola–Sihto A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):103–5 (12 ref.)

Iron deficiency anemia, backache, and abdominal pain attacks during sexual intercourse in a 42–year–old woman. Mulari S, et al. **Scand J Gastroenterol** 1996 Jun;31(6):622–3

Back pain in patients with ductal pancreatic cancer. Its impact on resectability and prognosis after resection. Ridder GJ, et al. **Scand J Gastroenterol** 1995 Dec; 30(12):1216–20

Childhood sex abuse in women with chronic intractable back pain. Pecukonis EV. **Soc Work Health Care** 1996;23(3):1–16

Back pain in children and adolescents: a retrospective review of 648 patients. Combs JA, et al. **South Med J** 1997 Aug; 90(8):789–92

Discriminatory power of tests applied in back pain during pregnancy. Kristiansson P, et al. **Spine** 1996 Oct 15; 21(20):2337–43; discussion 2343–4

Back pain during pregnancy: a prospective study. Kristiansson P, et al. **Spine** 1996 Mar 15;21(6):702–9

Lumbar discography [letter; comment] Mooney V. **Spine** 1996 Jun 15;21(12):1479. Comment on: Spine 1995 Sep 15;20(18):2048–59.

The course of back pain in primary care. Von Korff M, et al. **Spine** 1996 Dec 15;21(24):2833–7; discussion 2838–9 (29 ref.)

Postpartum back pain, so what! Avery JK. **Tenn Med** 1996 Sep;89(9):322–3

[Back pain and medullary compression in patients with cancer (editorial)] Hansen HH. **Ugeskr Laeger** 1996 Sep 30; 158(40):5588 **(Dan)**

[Back pain, bone metastases and medullary compression] Ottesen SS, et al. **Ugeskr Laeger** 1996 Sep 30; 158(40):5632–3 (Eng. Abstr.) **(Dan)**

[Back pain in ossification of the ligamentum flavum] De Bruyne J, et al. **J Belge Med Phys Rehabil** 1980;3(4):301–9 **(Dut)**

[Dens axis fracture, spinal pain and hematemesis] Rexroth G, et al. **Internist (Berl)** 1997 Feb;38(2):160–4 **(Ger)**

[Left–sided flank pain in coincident infrarenal aortic aneurysm and left–sided nephropathy] Scherf FG, et al. **Urologe A** 1996 Jul;35(4):342–4 (Eng. Abstr.) **(Ger)**

[The rheumatoid patient as back pain patient. Diagnosis and differential diagnosis of seronegative spondylarthropathies] Lakomek HJ. **Versicherungsmedizin** 1997 Jun 1;49(3):78–81 (8 ref.) (Eng. Abstr.) **(Ger)**

[Backache––orthopedic diagnosis and special therapeutic possibilities] Fengler H, et al. **Z Arztl Fortbild (Jena)** 1997 Jan;90(8):677–85 (Eng. Abstr.) **(Ger)**

[Backache from the internal medicine–rheumatologic viewpoint] Keitel W. **Z Arztl Fortbild (Jena)** 1997 Jan; 90(8):671–6 (Eng. Abstr.) **(Ger)**

[The area of focal nephritis measured by echography: useful indications in patients with unexplained back pain in comparison with other assessments] Sperandeo G, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):179–82 (Eng. Abstr.) **(Ita)**

[A 56–year–old man with fever, backache and tetraparesis (clinical conference)] Hattori T, et al. **No To Shinkei** 1996 Feb;48(2):183–93 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Atypical presentations of epidural abscess in intravenous drug abusers. Prendergast H, et al. **Am J Emerg Med** 1997 Mar; 15(2):158–60

PATHOLOGY

Ossification of the ligamentum flavum with myelopathy. Goodman JM, et al. **Surg Neurol** 1996 Oct;46(4):396–7

PHYSIOPATHOLOGY

Lumbar spinal moments in chronic back pain patients during supported lifting: a dynamic analysis. Wilson DJ, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):967–72

Health care providers' attitudes and beliefs about functional impairments and chronic back pain. Rainville J, et al. **Clin J Pain** 1995 Dec;11(4):287–95

Physical loading and performance as predictors of back pain in healthy adults. A 5–year prospective study. Kujala UM, et al. **Eur J Appl Physiol** 1996;73(5):452–8

Planter foot pressures in pregnant women. Nyska M, et al. **Isr J Med Sci** 1997 Feb;33(2):139–46

Dermatomal somatosensory evoked potentials in the diagnosis of lumbosacral radiculopathies. Righetti CA, et al. **Ital J Neurol Sci** 1996 Jun;17(3):193–9

Relationships between myoelectric activity, strength, and MRI of lumbar extensor muscles in back pain patients and normal subjects. Mooney V, et al. **J Spinal Disord** 1997 Aug;10(4):348–56

Effect of patient position on the sagittal–plane profile of the thoracolumbar spine. Wood KB, et al. **J Spinal Disord** 1996 Apr;9(2):165–9

Automatic location of vertebrae in digitized videofluoroscopic images of the lumbar spine. Muggleton JM, et al. **Med Eng Phys** 1997 Jan;19(1):77–89

The role of the iliolumbar ligament in low back pain. Sims JA, et al. **Med Hypotheses** 1996 Jun;46(6):511–5

Extensive reorganization of primary somatosensory cortex in chronic back pain patients. Flor H, et al. **Neurosci Lett** 1997 Mar 7;224(1):5–8

Back pain in the workplace. II [editorial] Loeser J. **Pain** 1996 Apr;65(1):7–8

Back pain and pregnancy: a review. MacEvilly M, et al. **Pain** 1996 Mar;64(3):405–14 (87 ref.)

Myofacial pain: asthma of the back and back pain in the workplace [letter] Thompson E. **Pain** 1996 Apr;65(1):111–4

The lateralization of back pain is sex–related? [letter] Verenich SV. **Pain** 1996 Nov;68(1):183

Unnecessary adversaries [editorial] Rothstein JM. **Phys Ther** 1997 Apr;77(4):352–3

Height changes among chronic low back pain patients during intense physical exercise. Hupli M, et al. **Scand J Med Sci Sports** 1997 Feb;7(1):32–7

Analysis of lumbar spine and hip motion during forward bending in subjects with and without a history of low back pain. Esola MA, et al. **Spine** 1996 Jan 1;21(1):71–8

Comparison of interbody fusion approaches for disabling low back pain. Hacker RJ. **Spine** 1997 Mar 15;22(6):660–5; discussion 665–6

PREVENTION & CONTROL

Epidural dexamethasone reduces the incidence of backache after lumbar epidural anesthesia. Wang YL, et al. **Anesth Analg** 1997 Feb;84(2):376–8

Height increase, neuromuscular function, and back pain during 6 degrees head–down tilt with traction. Styf JR, et al. **Aviat Space Environ Med** 1997 Jan;68(1):24–9

Mattresses and sleep for patients with low back pain: a survey of orthopaedic surgeons. Levy H, et al. **J South Orthop Assoc** 1996 Fall;5(3):185–7

Workers with disabling back pain [editorial; comment] Hadler NM. **N Engl J Med** 1997 Jul 31;337(5):341–3. Comment on: N Engl J Med 1997 Jul 31;337(5):322–8.

Learning effects of a back education program. Schenk RJ, et al. **Spine** 1996 Oct 1;21(19):2183–8; discussion 2189

[Spinal disease––prevention] Sylvest J, et al. **Ugeskr Laeger** 1997 Aug 25;159(35):5222–4 **(Dan)**

PSYCHOLOGY

The conundrum of chronic back pain. One person's story. Margolis S. **Aust Fam Physician** 1996 Nov;25(11):1703–5

Valuing workers lessens back injury–related disability. Wheeler AH. **N C Med J** 1996 Jan–Feb;57(1):36

Fear and avoidance in dysfunctional chronic back pain patients. Asmundson GJ, et al. **Pain** 1997 Feb;69(3):231–6

Response to: Back pain in the work place, PAIN, 65 (1996) 111–115 [letter; comment] Merskey H. **Pain** 1997 Jun; 71(2):208. Comment on: Pain 1996 Apr;65(1):111–4.

The role of pain behaviors in the modulation of marital conflict in chronic pain couples. Schwartz L, et al. **Pain** 1996 May–Jun;65(2–3):227–33

[The management of back problems among the population II. Therapists' and patients' perception of the disease] Lønnberg F. **Ugeskr Laeger** 1997 Apr 7;159(15):2215–21 (Eng. Abstr.) **(Dan)**

[Choose the words carefully! Information with a positive content may affect the patients with spinal problems so they dare to live a normal life] Udén A. **Lakartidningen** 1996 Oct 30;93(44):3923–5 **(Swe)**

RADIOGRAPHY

The value of SPECT scans in identifying back pain likely to benefit from facet joint injection. Dolan AL, et al. **Br J Rheumatol** 1996 Dec;35(12):1269–73

Automatic location of vertebrae in digitized videofluoroscopic images of the lumbar spine. Muggleton JM, et al. **Med Eng Phys** 1997 Jan;19(1):77–89

RADIONUCLIDE IMAGING

Bone SPECT imaging of the painful back. Gates GF. **Clin Nucl Med** 1996 Jul;21(7):560–71 (33 ref.)

Back pain: can we make a contribution? [editorial] Cook GJR, et al. **Eur J Nucl Med** 1997 Apr;24(4):363–7 (41 ref.)

REHABILITATION

"Too early intervention" in back pain [letter] Menard MR. **Arch Phys Med Rehabil** 1997 May;78(5):566

A conclusion based on an unwise premise [letter; comment] Pooley DL. **Can Med Assoc J** 1997 Feb 15;156(4):484. Comment on: Can Med Assoc J 1996 Oct 1;155(7):861–2.

Predicting long–term functional limitations among back pain patients in primary care settings. Dionne CE, et al. **J Clin Epidemiol** 1997 Jan;50(1):31–43

Rehabilitation and chiropractic practice. Liebenson C. **J Manipulative Physiol Ther** 1996 Feb;19(2):134–40 (50 ref.)

Test development and validation of a back education posttest. Nugent CC, et al. **J Orthop Sports Phys Ther** 1996 Aug; 24(2):78–85

Height changes among chronic low back pain patients during intense physical exercise. Hupli M, et al. **Scand J Med Sci Sports** 1997 Feb;7(1):32–7

Rehabilitating patients with chronic back pain [letter; comment] Brand JL, et al. **Spine** 1997 Feb 1;22(3):358–60. Comment on: Spine 1996 Apr 1;21(7):844–7.

Rehabilitation of injuries in competitive swimmers. Kenal KA, et al. **Sports Med** 1996 Nov;22(5):337–47 (28 ref.)

[Muscle strains: recommendations for the athlete (news)] **Sportverletz Sportschaden** 1997 Jun;11(2):XII **(Ger)**

[Dynamic spinal traction in the combined treatment of the pain syndrome in posttraumatic osteochondrosis] Fomchenkov SV, et al. **Voen Med Zh** 1997 Jul;318(7):23–7 **(Rus)**

SURGERY

Cost–effectiveness analysis of spinal cord stimulation in treatment of failed back surgery syndrome. Bell GK, et al. **J Pain Symptom Manage** 1997 May;13(5):286–95

BACK PAIN

Spinal cord stimulation: a valuable treatment for chronic failed back surgery patients. Devulder J, et al. **J Pain Symptom Manage** 1997 May;13(5):296–301

Comparison of interbody fusion approaches for disabling low back pain. Hacker RJ. **Spine** 1997 Mar 15;22(6):660–5; discussion 665–6

THERAPY

Does folk medicine work? A randomized clinical trial on patients with prolonged back pain. Hemmilä HM, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):571–7

Combined neuromuscular electrical stimulation and transcutaneous electrical nerve stimulation for treatment of chronic back pain: a double-blind, repeated measures comparison. Moore SR, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):55–60

Coffee, tea, or frostbite? A case report of inflight freezing hazard from dry ice. Gamble WB, et al. **Aviat Space Environ Med** 1996 Sep;67(9):880–1

New guidelines on managing back pain are similar to previous ones [letter; comment] Campbell J. **BMJ** 1997 Feb 22; 314(7080):608. Comment on: BMJ 1996 Nov 30;313(7069):1343–4.

Infra-red thermographic evaluation of spinal cord electrostimulation in patients with chronic pain after failed back surgery. Devulder J, et al. **Br J Neurosurg** 1996 Aug; 10(4):379–83

Design and assessment of an adaptive intermittent cervical traction modality with EMG biofeedback. Lee MY, et al. **J Biomech Eng** 1996 Nov;118(4):597–600

The Chiropractic Outcome Study: pain, functional ability and satisfaction with care. Verhoef MJ, et al. **J Manipulative Physiol Ther** 1997 May;20(4):235–40

Cost-effectiveness analysis of spinal cord stimulation in treatment of failed back surgery syndrome. Bell GK, et al. **J Pain Symptom Manage** 1997 May;13(5):286–95

Spinal cord stimulation: a valuable treatment for chronic failed back surgery patients. Devulder J, et al. **J Pain Symptom Manage** 1997 May;13(5):296–301

Percutaneous facet coagulation: indication, technique, results, and complications. Jerosch J, et al. **Neurosurg Clin N Am** 1996 Jan;7(1):119–34 (122 ref.)

Diagnostic spinal injection procedures. Kinard RE. **Neurosurg Clin N Am** 1996 Jan;7(1):151–65 (50 ref.)

An epidemiological study of diagnostic and therapeutic strategies in office practice patients with subacute or chronic pain in the thoracic or low back. Comparison of practices in primary care and rheumatology settings. Dreiser RL, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):26–34

The North American spine society lumbar spine outcome assessment Instrument: reliability and validity tests. Daltroy LH, et al. **Spine** 1996 Mar 15;21(6):741–9

[The management of back problems among the population. I. Contact patterns and therapeutic routines] Lønnberg F. **Ugeskr Laeger** 1997 Apr 7;159(15):2207–14 (Eng. Abstr.) **(Dan)**

[Value of multidisciplinary approach in the management of back pain] Husson JL. **Cah Anesthesiol** 1996;44(3):245–7 **(Fre)**

[Standardization of back treatment (editorial)] Magnaes B. **Nord Med** 1997 Mar;112(3):78 **(Nor)**

[Chiropractic and treatment of back pain (letter)] Myhrvold K. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2527–8 **(Nor)**

[Thought-provoking facts about back pain (letter)] Thompson EN. **Tidsskr Nor Laegeforen** 1996 Aug 30; 116(20):2496 **(Nor)**

VETERINARY

A dog with back pain. Churcher RK. **Aust Vet J** 1996 Jul; 74(1):17–8

Intervertebral disk disease in dogs with signs of back pain alone: 25 cases (1986–1993). Sukhiani HR, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1275–9

Auriculotherapy in canine thoracolumbar disc disease [letter; comment] Lubbe AM. **J S Afr Vet Assoc** 1990 Dec; 61(4):187. Comment on: J S Afr Vet Assoc 1990 Sep;61(3):102–5.

BACKACHE see **BACK PAIN**

BACKGROUND RADIATION

[Natural atomic radiation and phenomenon of life] Kuzin AM. **Biull Eksp Biol Med** 1997 Apr;123(4):364–6 (28 ref.) **(Rus)**

[Evaluation of technogenic radiation exposures from ecological and physiological points of view] Matiukhin VA, et al. **Vestn Ross Akad Med Nauk** 1997;(4):49–52 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

The correlation of motor neuron disease with radiation: an objection to the hypothesis of Neilson et al. [letter] Kondo K. **J Neurol** 1997 Jan;244(1):56–8

BACLOFEN

ADMINISTRATION & DOSAGE

Use of intrathecal baclofen in the treatment of patients with dystonia. Ford B, et al. **Arch Neurol** 1996 Dec; 53(12):1241–6

Effect of continuous infusion of GABA and baclofen on gastric secretion in anaesthetised rats. Goel RK, et al. **Indian J Exp Biol** 1996 Oct;34(10):978–81

Risks of electronic publishing [letter] Dressler D. **J Neurol** 1997 Jan;244(1):61

Effect of intrathecal baclofen delivered by an implanted programmable pump on health related quality of life in patients with severe spasticity. Middel B, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):204–9

Prospective assessment of continuous intrathecal infusion of baclofen for spasticity caused by acquired brain injury: a preliminary report. Meythaler JM, et al. **J Neurosurg** 1997 Sep;87(3):415–9

Intrathecal baclofen [letter; comment] Pirotte B, et al. **J Neurosurg** 1997 May;86(5):917–9. Comment on: J Neurosurg 1996 Sep;85(3):452–7.

Modulation of detrusor contraction strength and micturition characteristics by intrathecal baclofen in anesthetized rats. Watanabe T, et al. **J Urol** 1997 Jun;157(6):2361–5

Continuous intrathecal baclofen infusion for symptomatic generalized dystonia. Albright AL, et al. **Neurosurgery** 1996 May;38(5):934–8; discussion 938–9

Growth hormone response to baclofen: a comparison of 10-mg and 20-mg doses in healthy men. Davis LL, et al. **Psychiatry Res** 1996 Feb 28;60(1):41–7

Complications associated with infusion pumps implanted for spasticity. Levin AB, et al. **Stereotact Funct Neurosurg** 1995;65(1–4):147–51

A new approach to control central deafferentation pain: spinal intrathecal baclofen. Taira T, et al. **Stereotact Funct Neurosurg** 1995;65(1–4):101–5

[Continuous intrathecal injection of baclofen in generalized tetanus. A therapeutic alternative] François B, et al. **Presse Med** 1997 Jun 28;26(22):1045–7 (Eng. Abstr.) **(Fre)**

ADVERSE EFFECTS

A possible pharmacological treatment of baclofen overdose [letter] Broggi G, et al. **Ital J Neurol Sci** 1996 Apr; 17(2):179–80

[Severe hyperthermia caused by sudden withdrawal of continuous intrathecal administration of baclofen] Grenier B, et al. **Ann Fr Anesth Reanim** 1996;15(5):659–62 (Eng. Abstr.) **(Fre)**

ANALOGS & DERIVATIVES

GABAB receptor antagonism by resolved (R)-saclofen in the guinea-pig ileum. Kerr DI, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):R1–2

Actions of thienyl analogs of baclofen at GABA(B) receptors in rat neocortical slices. Ong J, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):133–6

GABAA and GABAB receptors differentially regulate synaptic transmission in the auditory thalamo-amygdala pathway: an in vivo microiontophoretic study and a model. Li XF, et al. **Synapse** 1996 Oct;24(2):115–24

ANTAGONISTS & INHIBITORS

GABA, glutamate and substance P-like immunoreactivity release: effects of novel GABAB antagonists. Teoh H, et al. **Br J Pharmacol** 1996 Jul;118(5):1153–60

Antinociception produced by systemic R(+)-baclofen hydrochloride is attenuated by CGP 35348 administered to the spinal cord or ventromedial medulla of rats. Thomas DA, et al. **Brain Res** 1996 Apr 29;718(1–2):129–37

The GABAB-receptor antagonist, CGP 35348, antagonises gamma-hydroxybutyrate- and baclofen-induced alterations in locomotor activity and forebrain dopamine levels in mice. Nissbrandt H, et al. **J Neural Transm** 1996; 103(11):1255–63

Interaction of taurine on baclofen intestinal absorption: a nonlinear mathematical treatment using differential equations to describe kinetic inhibition models. Moll-Navarro MJ, et al. **J Pharm Sci** 1996 Nov; 85(11):1248–54

An antisense oligonucleotide on the mouse Shaker-like potassium channel Kv1.1 gene prevents antinociception induced by morphine and baclofen. Galeotti N, et al. **J Pharmacol Exp Ther** 1997 May;281(2):941–9

CGP 35348 and CGP 55845A block the baclofen-induced depression of dorsal root evoked potentials in lumbar motoneurons of the neonatal rat. Vinay L, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):103–6

BLOOD

High-performance liquid chromatographic determination of baclofen in human plasma. Millerioux L, et al. **J Chromatogr A** 1996 Apr 5;729(1–2):309–14

CHEMISTRY

Stability of baclofen, captopril, diltiazem hydrochloride, dipyridamole, and flecainide acetate in extemporaneously compounded oral liquids. Allen LV Jr, et al. **Am J Health Syst Pharm** 1996 Sep 15;53(18):2179–84

DIAGNOSTIC USE

Growth hormone response to the GABAB agonist baclofen in major depressive disorder. Davis LL, et al. **Psychoneuroendocrinology** 1997 Apr;22(3):129–40

PHARMACOKINETICS

Baclofen: intestinal absorption mechanism in mice. Balerio GN, et al. **Gen Pharmacol** 1996 Oct;27(7):1269–71

Failure of absorption of baclofen after rectal administration. Kriel RL, et al. **Pediatr Neurol** 1997 May;16(4):351–2

PHARMACOLOGY

A comparison of the effects of two antispastic drugs, tizanidine and baclofen, on synaptic transmission from muscle spindle afferents to spinal interneurones in cats. Skoog B. **Acta Physiol Scand** 1996 Jan;156(1):81–90

Effect of long term baclofen treatment on recognition memory and novelty detection. Tang AC, et al. **Behav Brain Res** 1996 Jan;74(1–2):145–52

Electrophysiological actions of GABAB agonists and antagonists in rat dorso-lateral septal neurones in vitro. Bon C, et al. **Br J Pharmacol** 1996 Jun;118(4):961–7

Responses of rat substantia nigra dopamine-containing neurones to (-)-HA-966 in vitro. Grobaski KC, et al. **Br J Pharmacol** 1997 Feb;120(4):575–80

Involvement of GABAB receptor systems in experimental depression: baclofen but not bicuculline exacerbates helplessness in rats. Nakagawa Y, et al. **Brain Res** 1996 Nov 25;741(1–2):240–5

Involvement of GABAB receptor systems in action of antidepressants. II: Baclofen attenuates the effect of desipramine whereas muscimol has no effect in learned helplessness paradigm in rats. Nakagawa Y, et al. **Brain Res** 1996 Jul 29;728(2):225–30

Involvement of GABA(B) receptor systems in action of antidepressants: baclofen but not bicuculline attenuates the effects of antidepressants on the forced swim test in rats. Nakagawa Y, et al. **Brain Res** 1996 Feb 19;709(2):215–20

Baclofen pretreatment attenuates the suppressant effect of intraperitoneal administration of cholecystokinin (CCK) on food intake in rats. Ebenezer IS. **Brain Res Bull** 1996; 41(5):269–71

Differential action of secreto-inhibitors on proopiomelanocortin biosynthesis in the intermediate pituitary of Xenopus laevis. Dotman CH, et al. **Endocrinology** 1996 Nov;137(11):4551–7

Different effects of baclofen and GTP gamma S on voltage-activated Ca2+ currents in rat hippocampal neurons in vitro. Frank C, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):87–92

Actions of thienyl analogs of baclofen at GABA(B) receptors in rat neocortical slices. Ong J, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):133–6

The lack of effect of baclofen on action potentials of spinal motor axon collateral terminations in vivo. Curtis DR, et al. **Exp Brain Res** 1997 Mar;114(1):184–7

Baclofen: reduction of presynaptic calcium influx in the cat spinal cord in vivo. Curtis DR, et al. **Exp Brain Res** 1997 Mar;113(3):520–33

Effects of diazepam, baclofen and thiopental on the silent period evoked by transcranial magnetic stimulation in humans. Inghilleri M, et al. **Exp Brain Res** 1996 Jun; 109(3):467–72

Involvement of GABAB receptors in the antinociception induced by baclofen in the formalin test. Shafizadeh M, et al. **Gen Pharmacol** 1997 Apr;28(4):611–5

Administration of a GABAB agonist baclofen before running to exhaustion in the rat: effects on performance and on some indicators of fatigue. Abdelmalki A, et al. **Int J Sports Med** 1997 Feb;18(2):75–8

Modulation of respiratory rhythm in vitro: role of Gi/o protein-mediated mechanisms. Johnson SM, et al. **J Appl Physiol** 1996 Jun;80(6):2120–33

Baclofen in the treatment of cerebral palsy. Albright AL. **J Child Neurol** 1996 Mar;11(2):77–83

Multiple postsynaptic actions of GABA via GABAB receptors on CA1 pyramidal cells of rat hippocampal slices. Pham TM, et al. **J Neurophysiol** 1996 Jul;76(1):69–80

Baclofen inhibition of the hyperpolarization-activated cation current, Ih, in rat substantia nigra zona compacta neurons may be secondary to potassium current activation. Watts AE, et al. **J Neurophysiol** 1996 Oct;76(4):2262–70

GABAB receptor-activated inwardly rectifying potassium current in dissociated hippocampal CA3 neurons. Sodickson DL, et al. **J Neurosci** 1996 Oct 15;16(20):6374–85

Tolerance to mu-opioid receptor agonists but not cross-tolerance to gamma-aminobutyric acid(B) receptor agonists in arcuate A12 dopamine neurons with chronic morphine treatment. Wagner EJ, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1057–64

Effects of GABA-B agonist baclofen on bronchial hyperreactivity to inhaled histamine in subjects with cervical spinal cord injury. Grimm DR, et al. **Lung** 1997; 175(5):333–41

Differential modulation by muscimol and baclofen on antinociception induced by morphine, beta-endorphin, D-Pen2,5-enkephalin and U50,488H administered intracerebroventricularly in the mouse. Suh HW, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 352(6):614–9

GABA(B)-mediated presynaptic inhibition of excitatory transmission and synaptic vesicle dynamics in cultured hippocampal neurons. Isaacson JS, et al. **Neuron** 1997 Jan;

18(1):143–52
Baclofen–induced catatonia: modification by serotonergic agents. Kasture SB, et al. **Neuropharmacology** 1996 May; 35(5):595–8
The pharmacology of adenylyl cyclase modulation by GABAB receptors in rat brain slices. Knight AR, et al. **Neuropharmacology** 1996 Jun;35(6):703–12
Baclofen attenuates the reinforcing effects of cocaine in rats. Roberts DC, et al. **Neuropsychopharmacology** 1996 Oct; 15(4):417–23
GABAB–activated gK+ in thalamic neurons in the lethargic (lh/lh) mouse model of generalized absence seizures. Caddick SJ, et al. **Neurosci Lett** 1996 Feb 16;205(1):29–32
The contribution of GABAB receptor–mediated events to inflammatory pain processing: carrageenan oedema and associated spinal c–Fos expression in the rat. Buritova J, et al. **Neuroscience** 1996 Jul;73(2):487–96
GABAB–mediated upregulation of the high–voltage–activated Ca2+ channels in rat dorsal root ganglia. Fujikawa S, et al. **Pflugers Arch** 1997 May; 434(1):84–90
(–)–Baclofen–induced and constitutively active inwardly rectifying potassium conductances in cultured rat midbrain neurons. O'Callaghan JF, et al. **Pflugers Arch** 1996 Nov–Dec;433(1–2):49–57
Baclofen, a selective GABAB receptor agonist, dose–dependently impairs spatial learning in rats. McNamara RK, et al. **Pharmacol Biochem Behav** 1996 Feb; 53(2):303–8
Opposite influences of different adrenoceptors on baclofen–induced antinociception in mice. Sabetkasai M, et al. **Pharmacol Toxicol** 1997 Jan;80(1):6–10
Growth hormone response to baclofen: a comparison of 10–mg and 20–mg doses in healthy men. Davis LL, et al. **Psychiatry Res** 1996 Feb 28;60(1):41–7
Baclofen suppression of cocaine self–administration: demonstration using a discrete trials procedure. Roberts DC, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(3):271–7
Potentiation by baclofen of gastric acid secretion stimulated by secretagogues in vagotomized rats under anesthesia. Lin W–C. **Res Commun Mol Pathol Pharmacol** 1996 Feb; 91(2):211–24
Baclofen reduces GABAA receptor responses in acutely dissociated neurons of bullfrog dorsal root ganglia. Xi ZX, et al. **Synapse** 1997 Jun;26(2):165–74

POISONING

Flumazenil–induced seizure accompanying benzodiazepine and baclofen intoxication [letter] Chern TL, et al. **Am J Emerg Med** 1996 Mar;14(2):231–2

THERAPEUTIC USE

Intrathecal baclofen for severe torsion dystonia in a child. Paret G, et al. **Acta Paediatr** 1996 May;85(5):635–7
Baclofen for treatment of persistent hiccups in HIV–infected patients [letter] D'Alessandro DJ, et al. **AIDS** 1997 Jul; 11(8):1063–4
A double–blind placebo–controlled trial of baclofen in the treatment of tinnitus [letter; comment] Moller AR. **Am J Otol** 1997 Mar;18(2):268–9. Comment on: Am J Otol 1996 Nov;17(6):896–903.
A double–blind placebo–controlled trial of baclofen in the treatment of tinnitus [see comments] Westerberg BD, et al. **Am J Otol** 1996 Nov;17(6):896–903. Comment in: Am J Otol 1997 Mar;18(2):268–9.
A double–blind controlled study of gabapentin and baclofen as treatment for acquired nystagmus. Averbuch–Heller L, et al. **Ann Neurol** 1997 Jun;41(6):818–25
Use of baclofen to suppress cough induced by angiotensin–converting enzyme inhibitors. Dicpinigaitis PV. **Ann Pharmacother** 1996 Nov;30(11):1242–5
Moderate anticonvulsant action of baclofen does not change during development. Kubová H, et al. **Biol Neonate** 1996; 69(6):405–12
Baclofen therapy for rigidity associated with Lewy body dementia [letter] Moutoussis M, et al. **Br J Psychiatry** 1996 Dec;169(6):795
Antitussive effect of the GABA–agonist baclofen. Dicpinigaitis PV, et al. **Chest** 1997 Apr;111(4):996–9
Clinical use of polysynaptic flexion reflexes in the management of spasticity with intrathecal baclofen. Parise M, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 105(2):141–8
Intrathecal baclofen in cerebral palsy movement disorders. Albright AL. **J Child Neurol** 1996 Nov;11 Suppl 1:S29–35 (34 ref.)
Baclofen in the treatment of cerebral palsy. Albright AL. **J Child Neurol** 1996 Mar;11(2):77–83
Hemidystonia improved by baclofen and PET scan findings in a patient with glutaric aciduria type I. Awaad Y, et al. **J Child Neurol** 1996 Mar;11(2):167–9
The management of cerebral palsy: subjectivity and a conundrum [editorial] Bodensteiner JB. **J Child Neurol** 1996 Mar;11(2):75–76
Continuous intrathecal baclofen infusion in severe spasticity after traumatic or hypoxic brain injury. Becker R, et al. **J Neurol** 1997 Mar;244(3):160–6
Acute overdose of intrathecal baclofen [letter] Dressnandt J, et al. **J Neurol** 1996 Jun;243(6):482–3
Intrathecally administered baclofen for treatment of children with spasticity of cerebral origin. Armstrong RW, et al. **J Neurosurg** 1997 Sep;87(3):409–14
Effects of intrathecal baclofen on chronic spinal cord injury pain. Loubser PG, et al. **J Pain Symptom Manage** 1996 Oct;12(4):241–7
Severe tardive dystonia: treatment with continuous intrathecal baclofen administration. Dressler D, et al. **Mov Disord** 1997 Jul;12(4):585–7
Baclofen for chronic hiccups. Johnson BR, et al. **Pediatr Neurol** 1996 Jul;15(1):66–7
Multidimensional assessment of motor function in a child with cerebral palsy following intrathecal administration of baclofen. Almeida GL, et al. **Phys Ther** 1997 Jul; 77(7):751–64
Changes in voluntary motor control induced by intrathecal baclofen in patients with spasticity of different etiology. Latash ML, et al. **Physiother Res Int** 1996;1(4):229–46
New approaches to managing spasticity in children with cerebral palsy. Im D, et al. **West J Med** 1997 Apr;166(4):271
[The neuroprotective effect of GABA–ergic substances in cerebral ischemia] Kulinskiĭ VI, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):56–8 (Eng. Abstr.) **(Rus)**
[Treatment of "intractable" hiccup with baclofen] Pérez del Molino A, et al. **Rev Clin Esp** 1996 Dec;196(12):831–3 (Eng. Abstr.) **(Spa)**
[Cerebral palsy therapy] Papazian O, et al. **Rev Neurol** 1997 May;25(141):728–39 (69 ref.) (Eng. Abstr.) **(Spa)**

BACLOFEN RECEPTORS see **RECEPTORS, GABA–B**

BACLOPHEN see **BACLOFEN**

BACTERIAL FIMBRIAE see **FIMBRIAE, BACTERIAL**

BACTEREMIA

see related

ENDOTOXEMIA

Epidemiology and outcome of Pseudomonas aeruginosa bacteremia, with special emphasis on the influence of antibiotic treatment. Analysis of 189 episodes. Vidal F, et al. **Arch Intern Med** 1996 Oct 14;156(18):2121–6
Rapidly fatal pneumococcal sepsis in a healthy adult. Murph RC, et al. **Clin Infect Dis** 1996 Feb;22(2):375–6
Bacteremia due to Citrobacter species: significance of primary intraabdominal infection. Shih CC, et al. **Clin Infect Dis** 1996 Sep;23(3):543–9
The clinical significance of positive blood cultures in the 1990s: a prospective comprehensive evaluation of the microbiology, epidemiology, and outcome of bacteremia and fungemia in adults. Weinstein MP, et al. **Clin Infect Dis** 1997 Apr;24(4):584–602
Pneumococcal keratitis, bacteremia, and septic arthritis in an asplenic patient. Rivera P, et al. **Cornea** 1996 Jul; 15(4):434–6
Beware of the dog! [letter; comment] Bhandari S. **Nephrol Dial Transplant** 1997 Mar;12(3):620–1. Comment on: Nephrol Dial Transplant 1996 Sep;11(9):1839–40.
Invasive infections caused by Yersinia enterocolitica in infants. alMohsen I, et al. **Pediatr Infect Dis J** 1997 Feb; 16(2):253–5
Persistence of antibody responses to Haemophilus influenzae type b polysaccharide conjugate vaccine in children with vertically acquired human immunodeficiency virus infection. Gibb D, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1097–101
Pathophysiology, treatment and outcome of meningococcemia: a review and recent experience [see comments] Kirsch EA, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):967–78; quiz 979 (133 ref.). Comment in: Pediatr Infect Dis J 1997 May;16(5):540–2.
Invasive group A streptococcal infections in children with varicella in Southern California. Vugia DJ, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):146–50
[Autolimiting acute meningococcemia (letter)] Núñez MJ, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):571–2 **(Spa)**

BLOOD

A pilot study of the predictive value of plasma tumor necrosis factor alpha and interleukin 1 beta for Streptococcus pneumoniae bacteremia in febrile children. Strait RT, et al. **Acad Emerg Med** 1997 Jan;4(1):44–51
Serum tumor necrosis factor–alpha in neonatal sepsis. Atici A, et al. **Am J Perinatol** 1997 Aug;14(7):401–4
Effect of septicaemia on the plasma levels of biopterin and nitric oxide metabolites in rats and rabbits. van Amsterdam JG, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1447–51
Photo quiz. Hemolysis induced by Clostridium perfringens. Singh A. **Clin Infect Dis** 1996 Feb;22(2):221, 361
Increased serum concentrations of the carboxy–terminal cross–linked telopeptide of collagen type I in patients with Gram–negative septicaemia. Wenisch C, et al. **Eur J Clin Invest** 1996 Mar;26(3):237–9
Increasing yields from blood cultures. Jain P. **Indian Pediatr** 1996 Nov;33(11):974–5
Pretreatment with a 55–kDa tumor necrosis factor receptor–immunoglobulin fusion protein attenuates activation of coagulation, but not of fibrinolysis, during lethal bacteremia in baboons. van der Poll T, et al. **J Infect Dis** 1997 Jul;176(1):296–9
Plasma endotoxin in typhoid fever. Suyasa IG, et al. **Kobe J Med Sci** 1995 Oct;41(5):175–86
Evaluation of swirling, pH, and glucose tests for the detection of bacterial contamination in platelet concentrates. Wagner SJ, et al. **Transfusion** 1996 Nov–Dec;36(11–12):989–93
[Value of C–reactive protein for detecting bacteremia in febrile patients] Ruiz–Laiglesia FJ, et al. **Presse Med** 1996 Jul 6–13;25(24):1105–8 (Eng. Abstr.) **(Fre)**
[Analysis of blood of children hospitalized in the Children Memorial Health Institute between July 1992 and November 1995] Lopaciuk U, et al. **Pediatr Pol** 1996 Jun; 71(6):523–7 (Eng. Abstr.) **(Pol)**

CEREBROSPINAL FLUID

Vancomycin cerebrospinal fluid concentrations after intravenous administration in premature infants. Reiter PD, et al. **J Perinatol** 1996 Sep–Oct;16(5):331–5 (14 ref.)

CLASSIFICATION

Classifying extraintestinal non–typhoid Salmonella infections. Ramos JM, et al. **QJM** 1996 Feb;89(2):123–6

COMPLICATIONS

Chronic subdural haematoma and Streptococcus pneumoniae–associated haemolytic–uraemic syndrome [letter] Sajjanhar T, et al. **Acta Paediatr** 1996 Sep; 85(9):1135–6
Streptococcus sanguis bacteremia associated with cecal carcinoma: case report and review of the literature. Marinella MA. **Am J Gastroenterol** 1997 Sep;92(9):1541–2 (12 ref.)
Neurologic manifestations in Staphylococcus aureus endocarditis: a review of 260 bacteremic cases in nondrug addicts. Røder BL, et al. **Am J Med** 1997 Apr;102(4):379–86
Bilateral macular holes resulting from septic embolization. Beatty S, et al. **Am J Ophthalmol** 1997 Apr;123(4):557–9
Incision and drainage of cutaneous abscesses is not associated with bacteremia in afebrile adults. Bobrow BJ, et al. **Ann Emerg Med** 1997 Mar;29(3):404–8
Infectious aortitis due to penicillin–resistant Streptococcus pneumoniae. Maclennan AC, et al. **Ann Vasc Surg** 1997 Sep;11(5):533–5
Association of erythrodermic cutaneous T–cell lymphoma, superantigen–positive Staphylococcus aureus, and oligoclonal T–cell receptor V beta gene expansion [see comments] [published erratum appears in Blood 1997 May 1;89(9):3496] Jackow CM, et al. **Blood** 1997 Jan 1; 89(1):32–40. Comment in: Blood 1997 Jul 1;90(1):472–3.
The suprapharmacologic dosing of antithrombin concentrate for Staphylococcus aureus–induced disseminated intravascular coagulation in guinea pigs: substantial reduction in mortality and morbidity. Kessler CM, et al. **Blood** 1997 Jun 15;89(12):4393–401
Subcutaneous lesions and bacteraemia due to Stenotrophomonas maltophilia in three leukaemic patients with neutropenia. Moser C, et al. **Br J Dermatol** 1997 Jun; 136(6):949–52
Bacteremia in cancer patients with solid tumors undergoing chemotherapy versus surgery: risk factors, etiology and outcome in 276 patients. Grausová S, et al. **Bratisl Lek Listy** 1996 Nov;97(11):684–7
Septic cardioembolic choroidopathy. Sharma S, et al. **Can J Ophthalmol** 1997 Feb;32(1):42–5
Group A streptococcal septicemia with retropharyngeal abscess: a case report. Choong CS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jul;60(1):62–5
Osteonecrosis following meningococcemia and disseminated intravascular coagulation in an adult: case report and review. Campbell WN, et al. **Clin Infect Dis** 1997 Mar; 24(3):452–5 (12 ref.)
Lactobacillemia in three patients with AIDS. Horwitch CA, et al. **Clin Infect Dis** 1995 Dec;21(6):1460–2
Plesiomonas shigelloides bacteremia in a child with leukemia [letter; comment] Riley PA, et al. **Clin Infect Dis** 1996 Jul; 23(1):206–7. Comment on: Clin Infect Dis 1995 Sep;21(3):692–3.
Clinical significance of staphylococcus aureus bacteriuria without concurrent bacteremia. Sheth S, et al. **Clin Infect Dis** 1997 Jun;24(6):1268–9
Reactive arthritis by staphylococcus epidermidis: report of an unusual case. Giordano N, et al. **Clin Rheumatol** 1996 Jan;15(1):59–61
Recurrent salmonella sepsis with different species in a systemic lupus erythematosus patient. Green L, et al. **Clin Rheumatol** 1996 Jan;15(1):72–4
A 4–year–old girl with right elbow erythema, warmth, and induration. Porter GA, et al. **Curr Opin Pediatr** 1997 Feb; 9(1):31–4
Septic bone and joint infections. Hedstrom SA. **Curr Opin Rheumatol** 1997 Jul;9(4):317–20 (11 ref.)
Adrenal insufficiency, recurrent bacteremia, and disseminated abscesses caused by Nocardia asteroides in a patient with acquired immunodeficiency syndrome. Arabi Y, et al. **Diagn Microbiol Infect Dis** 1996 Jan;24(1):47–51
Thrombotic microangiopathy related to infection in an HIV–positive patient [letter] Mayo J, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):254–6 (14 ref.)
Biliary tract infection and bacteraemia associated with Haemophilus influenzae. Shoufanie A, et al. **Eur J Surg** 1996 Sep;162(9):743–5

Urticaria--an unusual presentation of staphylococcemia [letter; comment] Jayaraman TP. **Indian Pediatr** 1996 Jan; 33(1):76. Comment on: Indian Pediatr 1995 Sep;32(9):1005-7.

Contribution of computerized tomography to the diagnosis of catheter-induced septic central venous thrombosis [letter] Cohen Y, et al. **Intensive Care Med** 1996 Nov; 22(11):1279-80

Inhaled nitric oxide improved the outcome of severe right ventricular failure caused by lipopolysaccharide administration. Uchida T, et al. **Intensive Care Med** 1996 Nov;22(11):1203-6

Pedal manifestations of meningococcal septicemia. Welchon JG, et al. **J Am Podiatr Med Assoc** 1996 Mar;86(3):129-31

Septic shock: pathogenesis and treatment [see comments] Bansal T, et al. **J Assoc Physicians India** 1996 Jun; 44(6):407-14 (51 ref.). Comment in: J Assoc Physicians India 1996 Jun;44(6):371-4.

Cryptococcemia and meningococcemia in a post partum woman. Gupta S, et al. **J Assoc Physicians India** 1996 May; 44(5):339-41

Recurrent CDC group IVc-2 bacteremia in a human with AIDS. Anderson RR, et al. **J Clin Microbiol** 1997 Mar; 35(3):780-2 (15 ref.)

Vibrio cholerae non-O1 septicaemia in a patient with liver cirrhosis and Billroth-II-gastrectomy. Halabi M, et al. **J Infect** 1997 Jan;34(1):83-4

Increasing frequency of vertebral osteomyelitis following Staphylococcus aureus bacteraemia in Denmark 1980-1990. Jensen AG, et al. **J Infect** 1997 Mar;34(2):113-8

Arcanobacterium haemolyticum invasive infections, including meningitis in cancer patients [letter] Minárik T, et al. **J Infect** 1997 Jan;34(1):91

Acute meningococcemia. Sapadin A, et al. **Mt Sinai J Med** 1997 Sep-Oct;64(4-5):353

Acute oliguric renal failure in a patient with an Erysipelothrix rhusiopathiae bacteremia and endocarditis [letter] Fernández-Crespo P, et al. **Nephron** 1996;74(1):231

Retinal findings and characteristics in AIDS patients with systemic Mycobacterium avium-intracellulare complex and toxoplasmic encephalitis. Arevalo JF, et al. **Ophthalmic Surg Lasers** 1997 Jan;28(1):50-4

Neisseria meningitidis: fifteen cases of bronchopulmonary infections associated with septicaemia. Angelini S, et al. **Pathol Biol (Paris)** 1997 Apr;45(4):274-80

Management of children at risk for occult bacteremia [letter; comment] Givens TG, et al. **Pediatr Emerg Care** 1996 Dec; 12(6):460-2. Comment on: Pediatr Emerg Care 1996 Feb;12(1):59-61.

Haemophilus influenzae type b secondary infection of subdural hematomas [letter; comment] Barton LL. **Pediatr Infect Dis J** 1997 May;16(5):539. Comment on: Pediatr Infect Dis J 1996 Dec;15(12):1139-40.

Left ventricular pseudoaneurysm: an unusual complication of pericarditis and Staphylococcus aureus septicemia. Campos MM, et al. **Pediatr Infect Dis J** 1996 Apr; 15(4):380-2

Posterior mediastinal abscess caused by invasive group A Streptococcus infection. Conway JH, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):547-9

Yield of positive blood cultures in pediatric oncology patients by a new method of blood culture collection. Kaditis AG, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):615-20

Empyema and bloodstream infection caused by Burkholderia gladioli in a patient with cystic fibrosis after lung transplantation. Khan SU, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):637-9 (14 ref.)

Staphylococcus aureus dissemination to a preexisting subdural hematoma [letter] [see comments] Levy I, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1139-40. Comment in: Pediatr Infect Dis J 1997 May;16(5):539.

Group B streptococcal sepsis and meningitis complicated with severe sensorineural hearing loss in a fourteen-year-old boy. Likitnukul S, et al. **Pediatr Infect Dis J** 1996 May;15(5):468-70 (15 ref.)

Polymicrobial soft tissue abscesses in patients with cyanotic congenital heart disease. Rodgers GL, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):1046-8

Campylobacter sepsis in human immunodeficiency virus-infected children. The Madrid HIV Pediatric Infection Collaborative Study Group. Ruiz-Contreras J, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):251-3

Bacteraemia and intestinal obstruction in a 74-year-old man. Davis GK, et al. **Postgrad Med J** 1997 Jun;73(860):377-8

Septic shock in bacteremic patients: risk factors, features and prognosis. Leibovici L, et al. **Scand J Infect Dis** 1997; 29(1):71-5

Helicobacter cinaedi bacteraemia: varied clinical manifestations in three homosexual males. Tee W, et al. **Scand J Infect Dis** 1996;28(2):199-203

X-linked agammaglobulinemia presenting as pseudomonas aeruginosa septicemia. Zenone T, et al. **Scand J Infect Dis** 1996;28(4):417-8

Struvite calculi. Cohen TD, et al. **Semin Nephrol** 1996 Sep; 16(5):425-34 (71 ref.)

Are physiological effects of sleep deprivation in the rat mediated by bacterial invasion? Bergmann BM, et al. **Sleep** 1996 Sep;19(7):554-62

Neisseria gonorrhoeae endocarditis. Pate MA, et al. **Trop Doct** 1996 Jul;26(3):131

Penicillin-resistant Streptococcus pneumoniae in a Jamaican patient with homozygous sickle-cell disease. Wierenga KJ, et al. **West Indian Med J** 1996 Sep;45(3):95-6

[Invasive Pseudomonas aeruginosa and Ecthyma gangrenosum infection in a child without risk factors] Reymond D, et al. **Arch Pediatr** 1996 Jun;3(6):569-72 (Eng. Abstr.) **(Fre)**

[Aortic endocarditis following Erysipelothrix rhusiopathiae septicemia (letter)] Boldron A, et al. **Presse Med** 1996 Sep 28;25(28):1304 **(Fre)**

[Spinal and regional anesthesia in bacteremia] Beland B, et al. **Anaesthesist** 1997 Jun;46(6):536-47 (117 ref.) (Eng. Abstr.) **(Ger)**

[A case of severe acute hepatorenal failure due to Aeromoas hydrophila septicemia] Yokoba M, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1111-5 (Eng. Abstr.) **(Jpn)**

[Septic and other forms of salmonellosis] Bogomolova BP, et al. **Klin Med (Mosk)** 1996;74(7):12-5 **(Rus)**

[Bacteremia caused by Neisseria subflava and neutrocytic ascites in a female patient with hepatic cirrhosis (letter)] Len O, et al. **Enferm Infecc Microbiol Clin** 1996 May; 14(5):334-5 **(Spa)**

[Hafnia alvei bacteremia in an AIDS patient (letter)] Ibáñez Pérez de la Blanca MA, et al. **Med Clin (Barc)** 1997 May 17;108(19):757-8 **(Spa)**

[Bacteremia by Alcaligenes xylosoxidans: report of a case (letter)] Torres L, et al. **Med Clin (Barc)** 1997 Jun 21; 109(4):158-9 **(Spa)**

[Bacteremia for Aeromonas sobria in a patient with cholecystitis (letter)] Torres L, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):332 **(Spa)**

CONGENITAL

Pneumococcal sepsis in the newborn--an emerging problem? Bhutta ZA. **JPMA J Pak Med Assoc** 1996 Aug;46(8):182-4

DIAGNOSIS

Neonatal pleural empyema with group A Streptococcus. Thaarup J, et al. **Acta Paediatr** 1997 Jul;86(7):769-71 (17 ref.)

Diagnosis and treatment of bacteremia and intravascular catheter infections. Bullard KM, et al. **Am J Surg** 1996 Dec;172(6A):13S-19S (51 ref.)

Speed of detection of Burkholderia pseudomallei in blood cultures and its correlation with the clinical outcome. Tiangpitayakorn C, et al. **Am J Trop Med Hyg** 1997 Jul; 57(1):96-9

Management strategies for Helicobacter pylori-seropositive patients with dyspepsia: clinical and economic consequences [see comments] Ofman JJ, et al. **Ann Intern Med** 1997 Feb 15;126(4):280-91 (69 ref.). Comment in: Ann Intern Med 1997 Feb 15;126(4):315-6. Comment in: Ann Intern Med 1997 Aug 1;127(3):244.

Rapid diagnosis of methicillin-resistant Staphylococcus aureus bacteremia by nested polymerase chain reaction. Kitagawa Y, et al. **Ann Surg** 1996 Nov;224(5):665-71

Postmortem blood cultures. Evaluation of separate sampling of blood from the right and left cardiac ventricle. Schønheyder HC, et al. **APMIS** 1997 Jan;105(1):76-8

The major 20-kDa polysaccharide of Staphylococcus epidermidis extracellular slime and its antibodies as powerful agents for detecting antibodies in blood serum and differentiating among slime-positive and -negative S. epidermidis and other staphylococci species. Karamanos NK, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):389-95

Blood culture volume and detection of coagulase negative staphylococcal septicaemia in neonates. Jawaheer G, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jan;76(1):F57-8

Keeping the meningococcus out of the media [letter] Charlton R. **Br J Gen Pract** 1997 Aug;47(421):528

Lactobacillus bacteremia: description of the clinical course in adult patients without endocarditis. Antony SJ, et al. **Clin Infect Dis** 1996 Oct;23(4):773-8 (25 ref.)

Analysis of 281,797 consecutive blood cultures performed over an eight-year period: trends in microorganisms isolated and the value of anaerobic culture of blood. Cockerill FR 3rd, et al. **Clin Infect Dis** 1997 Mar; 24(3):403-18

The positive predictive value of isolating coagulase-negative staphylococci from blood cultures [see comments] Herwaldt LA, et al. **Clin Infect Dis** 1996 Jan;22(1):14-20 . Comment in: Clin Infect Dis 1996 Aug;23(2):412. Comment in: Clin Infect Dis 1996 Aug;23(2):413-4.

Defining true bacteremia due to coagulase-negative staphylococci [letter; comment] Johnson JR. **Clin Infect Dis** 1996 Aug;23(2):413-4. Comment on: Clin Infect Dis 1996 Jan;22(1):14-20.

Flavimonas oryzihabitans bacteremia: clinical features and microbiological characteristics of isolates. Lin RD, et al. **Clin Infect Dis** 1997 May;24(5):867-73

Diagnosis: Capnocytophaga canimorsus septicemia. Mossad SB, et al. **Clin Infect Dis** 1997 Feb;24(2):123, 267

Survey of mycoplasmal bacteremia detected in children by polymerase chain reaction. Narita M, et al. **Clin Infect Dis** 1996 Sep;23(3):522-5

Diagnostic microbiology updates. Reller LB. **Clin Infect Dis** 1996 Jul;23(1):38-9 (10 ref.)

Update on detection of bacteremia and fungemia. Reimer LG, et al. **Clin Microbiol Rev** 1997 Jul;10(3):444-65 (218 ref.)

Salmonella osteomyelitis in a patient with human immunodeficiency virus infection [letter] Belzunegui J, et al. **Clin Rheumatol** 1997 May;16(3):319-20 (10 ref.)

Utilization and diagnostic yield of blood cultures in a surgical intensive care unit. Darby JM, et al. **Crit Care Med** 1997 Jun;25(6):989-94

Clinical comparison of the BACTEC 9000 Standard Anaerobic/F and Lytic/F blood culture media. Hollick GE, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):191-6

Comparative evaluation of an automated ribotyping system versus pulsed-field gel electrophoresis for epidemiological typing of clinical isolates of Escherichia coli and Pseudomonas aeruginosa from patients with recurrent gram-negative bacteremia. Pfaller MA, et al. **Diagn Microbiol Infect Dis** 1996 May;25(1):1-8

Detection of gram-negative bacteraemia in early sepsis by a quantitative chromogenic and kinetic endotoxin assay. The Study Group. Massignon D, et al. **Eur J Clin Invest** 1996 Jul;26(7):596-601

Garderella vaginalis bacteremia in an adult male [letter] Bastida Vilá MT, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):400-1

A case of bacteremia caused by Streptococcus dysgalactiae [letter] Bert F, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):324-6 (10 ref.)

Characterization of Escherichia coli serotype O12:K1:H7 isolates from an immunocompetent carrier with a history of spontaneous abortion and septicemia. Blum-Oehler G, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):153-5

Prognostic factors associated with improved outcome of Escherichia coli bacteremia in a Finnish university hospital. Kuikka A, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb; 16(2):125-34

Oerskovia turbata and Comamonas acidovorans bacteremia in a patient with AIDS [letter] Lair MI, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):424-6

First reported African case of Anaerobiospirillum succiniciproducens septicemia. Marcus L, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):741-4 (12 ref.)

Evaluation of a commercial test kit for rapid detection of Staphylococcus aureus in blood cultures. Neyret C, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):165-6

PCR detection of mycobacteraemia in tanzanian patients with extrapulmonary tuberculosis. Richter C, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):813-7

Splenic abscess with Clostridium novyi bacteraemia and sepsis. Vleminckx WG, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):303-5

Emergency department versus office setting and physician/patient kinship effects in the diagnostic and therapeutic choices of febrile children at risk for occult bacteremia. Yamamoto LG, et al. **Hawaii Med J** 1997 Aug; 56(8):209-14

Study of bacteraemia using conventional and biphasic culture methods. Bannur M, et al. **Indian J Pathol Microbiol** 1995 Apr;38(2):147-51

Disseminated melioidosis. Cherian T, et al. **Indian Pediatr** 1996 May;33(5):403-6

Neonatal Salmonella infection [letter; comment] Mukherjee D, et al. **Indian Pediatr** 1996 May;33(5):438-9. Comment on: Indian Pediatr 1995 Jun;32(6):678-80.

Urticaria--an unusual presentation of staphylococcemia [see comments] Yadav TP, et al. **Indian Pediatr** 1995 Sep; 32(9):1005-7. Comment in: Indian Pediatr 1996 Jan;33(1):76.

High frequency of pseudobacteremia at a university hospital. Little JR, et al. **Infect Control Hosp Epidemiol** 1997 Mar; 18(3):200-2

Central nervous system infection due to Clostridium septicum: a case report and review of the literature. Cheng YT, et al. **Infection** 1997 May-Jun;25(3):171-4 (14 ref.)

Infections associated with totally implantable venous access devices (TIVAD) in human immunodeficiency virus-infected patients. Dega H, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Oct 1;13(2):146-54

Comparison of Bactec 9240 and Difco ESP blood culture systems for detection of organisms from vials whose entry was delayed. Chapin K, et al. **J Clin Microbiol** 1996 Mar; 34(3):543-9

Detection of Burkholderia pseudomallei DNA in patients with septicemic melioidosis. Dharakul T, et al. **J Clin Microbiol** 1996 Mar;34(3):609-14

Rapid diagnosis of Mycobacterium tuberculosis bacteremia by PCR. Folgueira L, et al. **J Clin Microbiol** 1996 Mar; 34(3):512-5

Controlled clinical laboratory comparison of BACTEC plus aerobic/F resin medium with BacT/Alert aerobic FAN medium for detection of bacteremia and fungemia. Jorgensen JH, et al. **J Clin Microbiol** 1997 Jan;35(1):53-8

Diagnosis of vascular catheter-related bloodstream infection: a meta-analysis. Siegman-Igra Y, et al. **J Clin Microbiol** 1997 Apr;35(4):928-36

Clinical comparison of the isolator and BacT/Alert aerobic blood culture systems [letter] Wasilauskas BL, et al. **J Clin Microbiol** 1996 Mar;34(3):765

Bacteremia caused by Helicobacter cinaedi in an AIDS patients. Hung CC, et al. **J Formos Med Assoc** 1997 Jul; 96(7):558-60

Why models predicting bacteremia in general medical patients do not work [editorial] Allison JJ, et al. **J Gen Intern Med** 1996 Feb;11(2):132-4

Sphingobacterium multivorum septicemia: a case report.

Areekul S, et al. **J Med Assoc Thai** 1996 Jun;79(6):395–8
Postcesarean endometritis. Clinical risk factors predictive of positive blood cultures. Spandorfer SD, et al.
J Reprod Med 1996 Nov;41(11):797–800
Shigella septicaemia in an infant. Usman J, et al.
JPMA J Pak Med Assoc 1997 May;47(5):150–1
Pustules and bacteraemia. Liu JW, et al. **Lancet** 1997 Sep 20;350(9081):860
Current laboratory techniques in the diagnosis of catheter-related infections. Liñares J, et al. **Nutrition** 1997 Apr;13(4 Suppl):10S–14S (49 ref.)
Social smile and occult bacteremia. Bass JW, et al.
Pediatr Infect Dis J 1996 Jun;15(6):541
Bacteremia caused by Hafnia alvei in a human immunodeficiency virus-infected child [letter] Conte M, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):182–3
Kingella kingae occult bacteremia in a toddler [letter] Krause I, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):557–8
Pneumococcal disease among children in a rural area of west Africa. O'Dempsey TJ, et al. **Pediatr Infect Dis J** 1996 May;15(5):431–7
Fever and 'negative' blood cultures in an elderly woman. Graham JC, et al. **Postgrad Med J** 1997 Jun;73(860):383–4
Low-grade spinal epidural infection. Report of a case. Berthelot JM, et al. **Rev Rhum Engl Ed** 1996 Jan; 63(1):59–61 (17 ref.)
False left ventricular aneurysm with ventriculo-bronchial fistula and massive haemoptysis. Camero LG, et al.
Scand Cardiovasc J 1997;31(2):117–9
Diagnosing bacteremia at a Danish hospital using one early large blood volume for culture. Arendrup M, et al.
Scand J Infect Dis 1996;28(6):609–14
Continuous-monitoring blood culture screening system improves the detection of bacteremia in neutropenic patients. Kinnunen U, et al. **Scand J Infect Dis** 1996; 28(3):287–92
Salmonella as a cause of bacteremia and subdural empyema in a patient with HIV infection. Kanchanapongkul J, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):196–9
Efficacy of blood cultures in the critically ill surgical patient. Henke PK, et al. **Surgery** 1996 Oct;120(4):752–8; discussion 758–9
[Critical peripheral ischemia in infection] Joseph U, et al. **Internist (Berl)** 1996 Oct;37(10):1049–52 **(Ger)**
[Sepsis due to Streptococcus pyogenes (letter)] Cámara González T, et al. **An Med Interna** 1996 Aug;13(8):411–2 **(Spa)**
[A study of 30 patients with bacteremia due to Campylobacter spp.] Font C, et al. **Med Clin (Barc)** 1997 Mar 8;108(9):336–40 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Urokinase in the treatment of bacteremia and candidemia in patients with right atrial catheters. Jones GR, et al.
Am J Infect Control 1996 Jun;24(3):160–6
Management strategies for Helicobacter pylori-seropositive patients with dyspepsia: clinical and economic consequences [see comments] Ofman JJ, et al.
Ann Intern Med 1997 Feb 15;126(4):280–91 (69 ref.). Comment in: Ann Intern Med 1997 Feb 15;126(4):315–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):244.
Sequential parenteral and oral ciprofloxacin regimen versus parenteral therapy for bacteremia: a pharmacoeconomic analysis. Amodio-Groton M, et al. **Ann Pharmacother** 1996 Jun;30(6):596–602
Early bactericidal activity of rifabutin versus that of placebo in treatment of disseminated Mycobacterium avium complex bacteremia in AIDS patients. Dautzenberg B, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1722–5
Antimicrobial effects of continuous versus intermittent administration of carbapenem antibiotics in an in vitro dynamic model. Keil S, et al.
Antimicrob Agents Chemother 1997 Jun;41(6):1215–9
Immunomodulating effect of fosfomycin on gut-derived sepsis caused by Pseudomonas aeruginosa in mice. Matsumoto T, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):308–13
In vivo oral efficacy of levofloxacin for treatment of systemic Pseudomonas aeruginosa infections in a murine model of septicemia. Yagel SK, et al.
Antimicrob Agents Chemother 1996 Dec;40(12):2894–7
Evaluation of a protocol for selective empiric treatment of fever without localising signs. Browne GJ, et al.
Arch Dis Child 1997 Feb;76(2):129–33
A clinical comparison of typhoid fever caused by susceptible and multidrug-resistant strains of Salmonella typhi. Alsoub H, et al. **Br J Clin Pract** 1997 Jan-Feb;51(1):8–10
Imipenem-resistant Ps. aeruginosa bacteraemia in cancer patients: risk factors, clinical features and outcome. Krčméry V Jr, et al. **Bratisl Lek Listy** 1996 Nov; 97(11):647–51
Do low vancomycine serum levels predict failures of vancomycine therapy in neutropenic cancer patients? Netriová J, et al. **Bratisl Lek Listy** 1996 Nov;97(11):680–3
Treatment of penicillin-resistant pneumococcal bacteremia in neutropenic patients with cancer. Carratalà J, et al.
Clin Infect Dis 1997 Feb;24(2):148–52
Emergence of increased resistance to quinupristin/dalfopristin during therapy for Enterococcus faecium bacteremia. Chow JW, et al. **Clin Infect Dis** 1997 Jan;24(1):90–1
Prophylaxis with fluoroquinolones for bacterial infections in neutropenic patients: a meta-analysis. Cruciani M, et al. **Clin Infect Dis** 1996 Oct;23(4):795–805
Bacteremia due to Klebsiella oxytoca: clinical features of patients and antimicrobial susceptibilities of the isolates. Lin RD, et al. **Clin Infect Dis** 1997 Jun;24(6):1217–22
Unusual pigmentation in patients with AIDS who are receiving rifabutin for bacteremia due to Mycobacterium avium/Mycobacterium intracellulare complex. Smith JF, et al. **Clin Infect Dis** 1995 Dec;21(6):1515–6
Relapsing bacteremia with highly penicillin-resistant pneumococci in a normal host. Rivera-Matos IR, et al. **Clin Pediatr (Phila)** 1996 Aug;35(8):407–10
Clinical efficacy of dirithromycin in patients with bacteremic pneumonia. Hernández JM, et al. **Clin Ther** 1996 Nov-Dec; 18(6):1128–38
Levofloxacin in vitro activity against bacteremic isolates of Streptococcus pneumoniae. Franklin County Pneumonia Study Group. Plouffe JF. **Diagn Microbiol Infect Dis** 1996 May;25(1):43–5
Early identification of neutropenic patients at risk of grampositive bacteraemia and the impact of empirical administration of vancomycin. Dompeling EC, et al.
Eur J Cancer 1996 Jul;32A(8):1332–9
Factors associated with increased risk in inappropriate empiric antibiotic treatment of childhood bacteraemia. Ashkenazi S, et al. **Eur J Pediatr** 1996 Jul;155(7):545–50
Emergency department versus office setting and physician/patient kinship effects in the diagnostic and therapeutic choices of febrile children at risk for occult bacteremia. Yamamoto LG, et al. **Hawaii Med J** 1997 Aug; 56(8):209–14
Antibiogram study over bacterial isolates from cases of bacteraemias. Nema S, et al. **Indian J Med Sci** 1996 Sep; 50(9):325–9
Implementation of consensus guidelines for the follow-up of positive blood cultures. Herchline T, et al.
Infect Control Hosp Epidemiol 1997 Jan;18(1):38–41
Impact of Mycobacterium avium complex prophylaxis on the incidence of mycobacterial infections and transfusion-requiring anemia in an HIV-positive population. Kravcik S, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1996 Sep; 13(1):27–32
Clinical significance of pneumococcal bacteraemias in a general hospital: a prospective study 1989–1993. Gómez J, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1021–30
Successful use of tetracycline as therapy of an immunocompromised patient with septicaemia caused by a vancomycin-resistant enterococcus [letter] Howe RA, et al. **J Antimicrob Chemother** 1997 Jul;40(1):144–5
The pharmacokinetics of intravenous ciprofloxacin 400 mg 12 hourly in patients with severe sepsis: the effect of renal function and intra-abdominal disease. Jones EM, et al.
J Antimicrob Chemother 1997 Jul;40(1):121–4
Antimicrobial practice. Development of guidelines for gentamicin dosing. Thomson AH, et al.
J Antimicrob Chemother 1996 Nov;38(5):885–93
Cefoperazone monotherapy for serious infections in hospitalized patients—an initial Indian experience. Shah SS, et al. **J Assoc Physicians India** 1995 Jun;43(6):398–9
Piperacillin-tazobactam as empiric monotherapy in febrile neutropenic patients with haematological malignancies. Hazel DL, et al. **J Chemother** 1997 Aug;9(4):267–72
First report of vancomycin-resistant Streptococcus mitis bacteremia in a leukemic patient after prophylaxis with quinolones and during treatment with vancomycin [letter] Krcmery V Jr, et al. **J Chemother** 1996 Aug;8(4):325–6
Drug resistant Pseudomonas aeruginosa bacteremia in HIV-infected patients. Tacconelli E, et al. **J Chemother** 1995 Nov;7 Suppl 4:180–3
Serious bacterial infection in children. Bergus G.
J Fam Pract 1997 Jun;44(6):531–2
Reasons for delay in administration of antibiotics to patients with meningitis and meningococcaemia. Wilks D, et al.
J Infect 1996 Jan;32(1):49–51
Bacteremia versus endotoxemia in experimental mouse leukopenia—role of antibiotic chemotherapy. Bucklin SE, et al. **J Infect Dis** 1996 Dec;174(6):1249–54
Effect of intravenous immunoglobulin G on the deposition of immunoglobulin G and C3 onto type III group B streptococcus and Escherichia coli K1. Lassiter HA, et al. **J Perinatol** 1996 Sep-Oct;16(5):346–51
Vancomycin cerebrospinal fluid concentrations after intravenous administration in premature infants. Reiter PD, et al. **J Perinatol** 1996 Sep-Oct;16(5):331–5 (14 ref.)
Methicillin-resistant Staphylococcus aureus and vancomycin-resistant enterococci [letter] Humphreys H, et al. **Lancet** 1997 Sep 6;350(9079):737–8
Abandoning empirical antibiotics for febrile children. Stamos JK, et al. **Lancet** 1997 Jul 12;350(9071):84
Successful treatment of persistent bacteremia due to vancomycin-resistant, ampicillin-resistant Enterococcus faecium. Mekonen ET, et al. **Microb Drug Resist** 1995 Fall; 1(3):249–53
Successful treatment of catheter-related sepsis and extraluminal catheter thrombosis with vancomycin and fraxiparin without catheter removal. Ruiz-Valverde MP, et al. **Nephron** 1997;75(3):354–5
Timing therapy for meningococcal infection [letter; comment] Radetsky M. **Pediatr Infect Dis J** 1997 May; 16(5):540–2. Comment on: Pediatr Infect Dis J 1996 Nov;15(11):967–78; quiz 979.
Recurrence of pneumococcal sepsis caused by an intermediately penicillin-resistant organism treated with loracarbef. Shandler L, et al. **Pediatr Infect Dis J** 1996 Apr;15(4):379–80
Do oral antibiotics prevent meningitis and serious bacterial infections in children with Streptococcus pneumoniae occult bacteremia? A meta-analysis. Rothrock SG, et al.
Pediatrics 1997 Mar;99(3):438–44
Impact of an infection consultation service for bacteraemia on clinical management and use of resources. Nathwani D, et al. **QJM** 1996 Oct;89(10):789–97
The cardiopulmonary, eicosanoid, and tissue microanatomic effects of fluconazole during graded bacteremia. Salartash K, et al. **Shock** 1996 Sep;6(3):206–12
Liposomal cefoxitin in a porcine model of intra-abdominal sepsis: hemodynamic changes. Soltes S, et al. **Shock** 1996; 6 Suppl 1:S43–9
[Oxygen transport pattern in burned patient with sepsis under inotropic support] Wu Z, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 Jul;11(4):266–9 (Eng. Abstr.) **(Chi)**
[The rapid microbiological control of the efficacy of the antibacterial therapy of bacteremia and septicemia] Kotliarova GA, et al. **Urol Nefrol (Mosk)** 1997 May-Jun; (3):8–13 (Eng. Abstr.) **(Rus)**

ECONOMICS

Efficacy of blood cultures in the critically ill surgical patient. Henke PK, et al. **Surgery** 1996 Oct;120(4):752–8; discussion 758–9

ENZYMOLOGY

Induction of gelatinase B and MCP-2 in baboons during sublethal and lethal bacteraemia. Paemen L, et al.
Cytokine 1997 Jun;9(6):412–5
Role of coagulase in a murine model of hematogenous pulmonary infection induced by intravenous injection of Staphylococcus aureus enmeshed in agar beads. Sawai T, et al. **Infect Immun** 1997 Feb;65(2):466–71
[Creatine phosphokinase in pneumococcal septicemia (letter; comment)] Guérin JM, et al. **Presse Med** 1996 Nov 2; 25(33):1606. Comment on: Presse Med 1996 Apr 27;25(15):702–6. **(Fre)**

EPIDEMIOLOGY

Blood cultures in adult patients released from an urban emergency department: a 15-month experience. Sturmann KM, et al. **Acad Emerg Med** 1996 Aug;3(8):768–75
Systemic group B streptococcal disease in neonates and young infants in Norway 1985–94. Aavitsland P, et al.
Acta Paediatr 1996 Jan;85(1):104–5
Recurrent abdominal pain and Helicobacter pylori in a community-based sample of London children [see comments] O'Donohoe JM, et al. **Acta Paediatr** 1996 Aug; 85(8):961–4. Comment in: Acta Paediatr 1997 Jun;86(6):671–3.
Frequency, risk factors, and outcome for bacteremia after percutaneous transluminal coronary angioplasty. Samore MH, et al. **Am J Cardiol** 1997 Apr 1;79(7):873–7
Geographic and seasonal variation in Mycobacterium avium bacteremia among North American patients with AIDS. Horsburgh CR Jr, et al. **Am J Med Sci** 1997 Jun; 313(6):341–5
Bacteremia in young urban women admitted with pyelonephritis. Smith WR, et al. **Am J Med Sci** 1997 Jan; 313(1):50–7
Occupationally acquired infections in health care workers. Part II [published erratum appears in Ann Intern Med 1997 Apr 1;126(7):588] Sepkowitz KA. **Ann Intern Med** 1996 Dec 1;125(11):917–28 (279 ref.)
Adult bacteremic pneumococcal pneumonia in a community teaching hospital, 1992–1996. A detailed analysis of 108 cases. Watanakunakorn C, et al. **Arch Intern Med** 1997 Sep 22;157(17):1965–71
Incidence of deep sepsis in uncemented total hip arthroplasty using clean air facility as a function of antibiotic prophylaxis. Hauser R, et al. **Bull Hosp Jt Dis** 1996; 54(3):175–9
Invasive infection due to Streptococcus iniae: a new or previously unrecognized disease—Ontario, 1995–1996. Weinstein M, et al. **Can Commun Dis Rep** 1996 Aug 1; 22(15):129–31; discussion 131–2 **(Eng, Fre)**
Bacteremia due to Acinetobacter baumannii: epidemiology, clinical findings, and prognostic features. Cisneros JM, et al. **Clin Infect Dis** 1996 Jun;22(6):1026–32
Exposure to cytomegalovirus from the donated organ is a risk factor for bacteremia in orthotopic liver transplant recipients. Boston Center for Liver Transplantation CMVIG Study Group. Falagas ME, et al.
Clin Infect Dis 1996 Sep;23(3):468–74
An outbreak of infusion-related Klebsiella pneumoniae bacteremia in a liver transplantation unit. Goetz AM, et al. **Clin Infect Dis** 1995 Dec;21(6):1501–3
Anaerobic bacteremia. Goldstein EJ. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S97–101 (43 ref.)
Pneumococcal bacteremia in hospitalized Israeli adults: epidemiology and resistance to penicillin. Israeli Adult Pneumococcal Bacteremia Group. Raz R, et al.
Clin Infect Dis 1997 Jun;24(6):1164–8
Kingella kingae: an emerging cause of invasive infections

in young children. Yagupsky P, et al. **Clin Infect Dis** 1997 May;24(5):860–6 (80 ref.)

Changing patterns of case ascertainment and trends in meningococcal disease in England and Wales. Ramsay M, et al. **Commun Dis Rep CDR Rev** 1997 Apr 4;7(4):R49–54

Surveillance of invasive Haemophilus influenzae infections in children. **Commun Dis Rep CDR Wkly** 1997 Mar 28; 7(13):109

Bacteremia and bacterial meningitis in England and Wales: 1982 to 1996. **Commun Dis Rep CDR Wkly** 1997 Aug 1; 7(31):275, 278

Yersinia enterocolitica septicemia in Denmark 1972–1991: a report of 100 cases. Jensen KT, et al. **Contrib Microbiol Immunol** 1995;13:11–5

Comparative evaluation of an automated ribotyping system versus pulsed-field gel electrophoresis for epidemiological typing of clinical isolates of Escherichia coli and Pseudomonas aeruginosa from patients with recurrent gram-negative bacteremia. Pfaller MA, et al. **Diagn Microbiol Infect Dis** 1996 May;25(1):1–8

Epidemiology of invasive Streptococcus pneumoniae infections in adults in Finland. Sankilampi U, et al. **Epidemiol Infect** 1997 Feb;118(1):7–15

Prospective study of 288 episodes of bacteremia in neutropenic cancer patients in a single institution. González-Barca E, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):291–6

Invasive Haemophilus influenzae in the Republic of Ireland. Moloney AC, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):377–80

Factors associated with increased risk in inappropriate empiric antibiotic treatment of childhood bacteraemia. Ashkenazi S, et al. **Eur J Pediatr** 1996 Jul;155(7):545–50

Imipenen-resistant Ps. aeruginosa bacteraemia in cancer patients: risk factors, clinical features and outcome. Krcmery V Jr, et al. **Int J Clin Pharmacol Res** 1996; 16(2–3):43–9

Clinical significance of pneumococcal bacteraemias in a general hospital: a prospective study 1989–1993. Gómez J, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1021–30

Comparative study of blood culture practices in the years 1985 and 1992. Beovic B, et al. **J Chemother** 1995 Nov; 7 Suppl 4:111–4

Community and hospital acquired Staphylococcus aureus septicaemia: 115 cases from a Dublin teaching hospital. Cunney RJ, et al. **J Infect** 1996 Jul;33(1):11–3

Group A streptococcal bacteraemia: experience at a university hospital in Riyadh. al Mazrou AM. **J Infect** 1997 Mar;34(2):95–100

Epidemiological investigation of Pseudomonas aeruginosa nosocomial bacteraemia isolates by PCR-based DNA fingerprinting analysis. Liu Y, et al. **J Med Microbiol** 1996 Nov;45(5):359–65

Increase in pneumococcal bacteraemia in Sweden [letter] [see comments] [published erratum appears in Lancet 1997 Apr 12;349(9058):1106] Giesecke J, et al. **Lancet** 1997 Mar 8; 349(9053):699–700. Comment in: Lancet 1997 May 24;349(9064):1554. Comment in: Lancet 1997 Jun 28;349(9069):1910.

Pneumococcal bacteraemia in Sweden [letter; comment] Källenius G, et al. **Lancet** 1997 Jun 28;349(9069):1910. Comment on: Lancet 1997 Mar 8;349(9053):699–700.

Reasons for increase in pneumococcal bacteraemia [letter; comment] Schønheyder HC, et al. **Lancet** 1997 May 24; 349(9064):1554. Comment on: Lancet 1997 Mar 8;349(9053):699–700.

Hospital acquired infections in a Singapore Hospital: 1985–1992. Kumarasinghe G, et al. **Malays J Pathol** 1995 Jun;17(1):17–21

Vibrio vulnificus infections associated with eating raw oysters--Los Angeles, 1996. **MMWR Morb Mortal Wkly Rep** 1996 Jul 26;45(29):621–4

Bloodstream infections due to anaerobic bacteria in cancer patients: epidemiology, etiology, risk factors, clinical presentation and outcome of anaerobic bacteremia. Spánik S, et al. **Neoplasma** 1996;43(4):235–8

Frequency of low level bacteremia in infants from birth to two months of age. Kellogg JA, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):381–5

A prospective study of Gram-negative bacteremia in children. Levy I, et al. **Pediatr Infect Dis J** 1996 Feb; 15(2):117–22

Community-acquired bacteremia in Zimbabwe and the global cost of contaminated blood cultures [letter; comment] McDonald LC, et al. **Pediatr Infect Dis J** 1997 May; 16(5):537–8. Comment on: Pediatr Infect Dis J 1996 Dec;15(12):1092–7.

Community-acquired bacteremia in human immunodeficiency virus-infected children in Harare, Zimbabwe [see comments] Nathoo KJ, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1092–7. Comment in: Pediatr Infect Dis J 1997 May;16(5):537–8.

Pneumococcal disease among children in a rural area of west Africa. O'Dempsey TJ, et al. **Pediatr Infect Dis J** 1996 May;15(5):431–7

A 6-month prospective study of hospital-acquired bacteremia in Copenhagen county. Jensen AG, et al. **Scand J Infect Dis** 1996;28(6):601–8

High frequency of septicaemia in an outbreak of Salmonella stanley infections [letter] Kontiainen S, et al. **Scand J Infect Dis** 1996;28(2):207

Incidence and severity of group A streptococcal bacteremia in a medical center in Israel, 1981–1994. Livni G, et al. **Scand J Infect Dis** 1996;28(2):139–42

A clinical study of beta-haemolytic groups A, B, C and G streptococcal bacteremia in adults over an 8-year period. Schugk J, et al. **Scand J Infect Dis** 1997;29(3):233–8

Incidence of positive bacterial cultures after donor call-back [letter] Goldman M, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):1035

[Increased occurrence of pneumococcal bacteremia in Denmark (letter)] Henrichsen J, et al. **Ugeskr Laeger** 1997 Jun 2;159(23):3615–6 **(Dan)**

[Clinical significance, epidemiology and microbiology of coagulase-negative staphylococcal nosocomial bacteremia at a teaching hospital] Góngora-Rubio F, et al. **Rev Assoc Med Bras** 1997 Jan–Mar;43(1):9–14 (Eng. Abstr.) **(Por)**

[Retrospective and comparative study of pneumococcal bacteremia in patients with chronic hepatopathy] Ramos Rincón JM, et al. **An Med Interna** 1996 Jul;13(7):313–6 (21 ref.) (Eng. Abstr.) **(Spa)**

[Bacteremia detected among patients discharged from the emergency service (letter)] Tudela P, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):519 **(Spa)**

[Pseudomonas aeruginosa bacteremia in patients with HIV infection: clinicoepidemiologic study of 17 episodes] Salavert Lletí S, et al. **Rev Clin Esp** 1996 Oct; 196(10):684–91 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Prior antimicrobials and staphylococcal bacteremia in HIV-infected patients. Styrt BA, et al. **AIDS** 1997 Aug; 11(10):1243–8

Clostridium perfringens septicemia with massive hemolysis in a patient with Hodgkin's lymphoma. Singer AJ, et al. **Am J Emerg Med** 1997 Mar;15(2):152–4

Polymicrobial gram-negative bacteremia associated with saline solution flush used with a needleless intravenous system. Chodoff A, et al. **Am J Infect Control** 1995 Dec; 23(6):357–63

Bacterial endocarditis in hemodialysis patients. Robinson DL, et al. **Am J Kidney Dis** 1997 Oct;30(4):521–4

Case report: empyema with hydropneumothorax and bacteremia caused by Clostridium sporogenes. Corbett CE, et al. **Am J Med Sci** 1996 Nov;312(5):242–5

Bacteraemia during direct laryngoscopy and endotracheal intubation: a study using a multiple culture, large volume technique. Goldstein S, et al. **Anaesth Intensive Care** 1997 Jun;25(3):239–44 (25 ref.)

Bacteraemia following percutaneous dilational tracheostomy. Teoh N, et al. **Anaesth Intensive Care** 1997 Aug;25(4):354–7

Central venous line related bacteremia during total parenteral nutrition and/or chemotherapy infusions in children. Forchielli ML, et al. **Ann Ig** 1997 Jan–Feb;9(1):35–40

Catheter-related bacteremia and outcome of attempted catheter salvage in patients undergoing hemodialysis. Marr KA, et al. **Ann Intern Med** 1997 Aug 15;127(4):275–80

Hafnia alvei septicemia in two patients with digestive malignancies [letter] Salah A, et al. **Ann Med Interne (Paris)** 1997;148(2):187–8

Pseudomonas bacteremia precipitated by ticlopidine-induced neutropenia. Geletko SM, et al. **Ann Pharmacother** 1996 Mar;30(3):246–8

Risk of bacteremia complicating valve replacement in the presence of colon cancer [letter] Prabhakar G, et al. **Ann Thorac Surg** 1997 Aug;64(2):587–8

Low risk of bacteremia during catheter replacement in patients with long-term urinary catheters. Bregenzer T, et al. **Arch Intern Med** 1997 Mar 10;157(5):521–5

Bacteraemia caused by periodontal probing. Daly C, et al. **Aust Dent J** 1997 Apr;42(2):77–80

Rhabdomyolysis associated with septicemia after autologous bone marrow transplantation [letter] Sanfructuoso C, et al. **Bone Marrow Transplant** 1997 Jan;19(1):95

Aeromonas bacteraemia in burn patients. Barillo DJ, et al. **Burns** 1996 Feb;22(1):48–52 (33 ref.)

Bioactive substance accumulation and septic complications in a burn trauma patient: effect of perioperative blood transfusion? Nielsen HJ, et al. **Burns** 1997 Feb;23(1):59–63

Fatal infection of coronary stent implantation. Leroy O, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):168–70; discussion 171 (6 ref.)

Systemic infection related to endocarditis on pacemaker leads: clinical presentation and management. Klug D, et al. **Circulation** 1997 Apr 15;95(8):2098–107 (36 ref.)

Hematogenous infections of subdural hematomas [letter; comment] Barton LL. **Clin Infect Dis** 1997 Jun;24(6):1284 . Comment on: Clin Infect Dis 1996 Sep;23(3):662.

Comparison of clinical characteristics of group A streptococcal bacteremia in children and adults. Begovac J, et al. **Clin Infect Dis** 1996 Jul;23(1):97–100

Tsukamurella inchonensis bacteremia in a patient who ingested Hydrochloric acid. Chong Y, et al. **Clin Infect Dis** 1997 Jun;24(6):1267–8

Enterococcal spondylodiskitis [letter; comment] Gavaldà J, et al. **Clin Infect Dis** 1996 Jun;22(6):1135. Comment on: Clin Infect Dis 1995 Sep;21(3):516–22.

Moraxella catarrhalis bacteremia as a cause of erythema nodosum. Periyakoil V, et al. **Clin Infect Dis** 1996 Sep; 23(3):650–1

Capnocytophaga canimorsus septicemia in Denmark, 1982–1995: review of 39 cases. Pers C, et al. **Clin Infect Dis** 1996 Jul;23(1):71–5 (49 ref.)

Serendipitous detection of persistent Campylobacter jejuni subspecies jejuni bacteremia in a patient undergoing bone marrow transplantation. Schuster M, et al. **Clin Infect Dis** 1997 Jun;24(6):1270

Pneumonia and bacteremia due to Mycobacterium celatum masquerading as Mycobacterium xenopi in patients with AIDS: an underdiagnosed problem? Zurawski CA, et al. **Clin Infect Dis** 1997 Feb;24(2):140–3

Acute hematogenous osteomyelitis of a closed fracture with chronic superinfection. Aluisio FV, et al. **Clin Orthop** 1996 Apr;(325):239–44

Polymicrobial bacteremia: a presentation of Munchäusen syndrome by proxy. Seferian EG. **Clin Pediatr (Phila)** 1997 Jul;36(7):419–22

Bloodstream infections in liver transplant recipients receiving tacrolimus. Singh N, et al. **Clin Transplant** 1997 Aug; 11(4):275–81

Central venous catheter replacement strategies: a systematic review of the literature. Cook D, et al. **Crit Care Med** 1997 Aug;25(8):1417–24 (35 ref.)

Trends in bacteremic infection due to Streptococcus pyogenes (group A streptococcus), 1986–1995. Musher DM, et al. **Emerg Infect Dis** 1996 Jan–Mar;2(1):54–6

First European case of gastroenteritis and bacteremia due to Vibrio hollisae. Gras-Rouzet S, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):864–6 (13 ref.)

Mycobacterium fortuitum bacteremia in an immunocompromised patient with a long-term venous catheter [letter] Moreno A, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):423–4

Seven-year review of bacteremia caused by Streptococcus milleri and other viridans streptococci. Salavert M, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):365–71

Absence of bacteremia after gastrointestinal procedures in children. el-Baba M, et al. **Gastrointest Endosc** 1996 Oct; 44(4):378–81

Bacteremia in patients with hematological malignancies. Analysis of risk factors, etiological agents and prognostic indicators. Pagano L, et al. **Haematologica** 1997 Jul–Aug; 82(4):415–9

Bacteremia following postoperative choledochofiberscopy--a prospective study. Chen MF, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):586–9

Catheter-associated Staphylococcus aureus bacteremia. Gold HS, et al. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):133–7, 142–4, 150 (14 ref.)

Disseminated BCG infection. Chugh K. **Indian Pediatr** 1997 Mar;34(3):269–71

Bloodstream infection from a Port-A-Cath: successful treatment with the antibiotic lock technique [letter] Bregenzer T, et al. **Infect Control Hosp Epidemiol** 1996 Dec;17(12):772

Three-year outbreak of pseudobacteremia with Burkholderia cepacia traced to a contaminated blood gas analyzer [see comments] Gravel-Tropper D, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):737–40. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):718–20.

Role of bacterial Mn-cofactored superoxide dismutase in oxidative stress responses, nasopharyngeal colonization, and sustained bacteremia caused by Haemophilus influenzae type b. D'Mello RA, et al. **Infect Immun** 1997 Jul; 65(7):2700–6

Early and late onset bacteremia have different risk factors in trauma patients. Antonelli M, et al. **Intensive Care Med** 1996 Aug;22(8):735–41

Central venous catheter infections: concepts and controversies [letter; comment] Arrowsmith M. **Intensive Care Med** 1997 Mar;23(3):358–9. Comment on: Intensive Care Med 1995 Feb;21(2):177–83.

Fulminant septicemic syndrome of Bacillus cereus in a leukemic patient. Akiyama N, et al. **Intern Med** 1997 Mar; 36(3):221–6 (15 ref.)

Aeromonas bacteremia in patients with hematologic diseases. Funada H, et al. **Intern Med** 1997 Mar;36(3):171–4

Mycoplasma in urine and blood following catheterisation of patients undergoing vascular surgery. Levi N, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):355–8

Bacteremia in cancer patients with solid tumors undergoing chemotherapy versus surgery: risk factors, etiology and outcome in 276 patients. Krcmery V Jr, et al. **J Chemother** 1997 Jun;9(3):232–7

Septicemia caused by Streptococcus canis in a human. Bert F, et al. **J Clin Microbiol** 1997 Mar;35(3):777–9

Veillonella parvula bacteremia without an underlying source. Fisher RG, et al. **J Clin Microbiol** 1996 Dec;34(12):3235–6

Oral infections in home-living elderly patients admitted to an acute geriatric ward. Meurman JH, et al. **J Dent Res** 1997 Jun;76(6):1271–6

Agrobacterium radiobacter bacteremia in a patient with chronic obstructive pulmonary disease. Yu WL, et al. **J Formos Med Assoc** 1997 Aug;96(8):664–6

Stenotrophomonas maltophilia bacteraemia in cancer patients. report on 31 cases [letter; comment] Krcmery V Jr, et al. **J Hosp Infect** 1996 Sep;34(1):75–7. Comment on: J Hosp Infect 1995 Jun;30 Suppl;453–64.

Broviac catheter-related bacteraemias due to unusual pathogens in children with cancer: case reports with literature review. Castagnola E, et al. **J Infect** 1997 May; 34(3):215–8 (22 ref.)

Clostridium sordellii bacteraemia. Cunniffe JG. **J Infect** 1996

Sep;33(2):127–9
Recurrent septicaemia due to "Achromobacter group B". Jenks PJ, et al. **J Infect** 1997 Mar;34(2):143–5
Staphylococcus aureus bacteraemia, Absidia corymbifera infection and probable pulmonary aspergillosis in a recipient of orthotopic liver transplantation for end stage liver disease secondary to hepatitis C [letter] Viscoli C, et al. **J Infect** 1997 May;34(3):281–3
The pattern of inflammation in rat sepsis due to enterotoxin–producing Staphylococcus aureus: a comparison with ischemia–reperfusion injury. Lin RY, et al. **J Med** 1996;27(5–6):303–17
Neonatal bacterial sepsis in a neonatal intensive care unit: a 5 year analysis. Sanghvi KP, et al. **J Paediatr Child Health** 1996 Aug;32(4):333–8
Penicillin–resistant Streptococcus mitis as a cause of septicemia with meningitis in febrile neutropenic children. Balkundi DR, et al. **J Pediatr Hematol Oncol** 1997 Jan–Feb; 19(1):82–5
Incidence of bacteremia after burn wound manipulation in the early postburn period. Mozingo DW, et al. **J Trauma** 1997 Jun;42(6):1006–10; discussion 1010–1
Clostridium perfringens septicemia. A case report. van Geem T. **Nebr Med J** 1996 Aug;81(8):279–80; discussion 281
Bloodstream infections due to anaerobic bacteria in cancer patients: epidemiology, etiology, risk factors, clinical presentation and outcome of anaerobic bacteremia. Spánik S, et al. **Neoplasma** 1996;43(4):235–8
Beware of the dog! A syndrome resembling thrombotic thrombocytopenic purpura associated with Capnocytophaga canimorsus septicaemia [see comments] Finn M, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1839–40. Comment in: Nephrol Dial Transplant 1997 Mar;12(3):620–1.
Spinal abscess with cord compression complicating infected subclavian cannula. Nawaz M, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):842
Chronic meningococcaemia: a case report. Kruijtzer CM, et al. **Neth J Med** 1997 Mar;50(3):102–4
Thrombotic, infectious, and procedural complications of the jugular bulb catheter in the intensive care unit. Coplin WM, et al. **Neurosurgery** 1997 Jul;41(1):101–7; discussion 107–9
The small intestine as the origin of bacteremia in acute diffuse peritonitis. Peregudov SI, et al. **Nutr Hosp** 1996 Nov–Dec; 11(6):317–20 (8 ref.)
Central venous catheter–related infections: a review. Adal KA, et al. **Nutrition** 1996 Mar;12(3):208–13 (94 ref.)
Current laboratory techniques in the diagnosis of catheter–related infections. Liñares J, et al. **Nutrition** 1997 Apr;13(4 Suppl):10S–14S (49 ref.)
Relevance of the catheter hub as a portal for microorganisms causing catheter–related bloodstream infections. Salzman MB, et al. **Nutrition** 1997 Apr;13(4 Suppl):15S–17S (23 ref.)
The treatment of septicemia in pacemaker patients. Böhm A, et al. **Pacing Clin Electrophysiol** 1996 Jul;19(7):1105–11
Clostridium tertium bacteremia: 2 cases and review. Gosbell IB, et al. **Pathology** 1996 Jan;28(1):70–3 (26 ref.)
Dental bacteremia in children. Roberts GJ, et al. **Pediatr Cardiol** 1997 Jan–Feb;18(1):24–7
Nonaccidental injury presenting as pneumococcal sepsis in an infant. Wilson TM, et al. **Pediatr Emerg Care** 1996 Aug; 12(4):283–4
Vascular catheter–related Comamonas acidovorans bacteremia managed with preservation of the catheter. Ender PT, et al. **Pediatr Infect Dis J** 1996 Oct; 15(10):918–20
Breakthrough sepsis in macrolide–resistant pneumococcal infection. Jackson MA, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):1049–51
Neonatal enterococcal bacteremia: an increasingly frequent event with potentially untreatable pathogens. McNeeley DF, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):800–5
Septicaemia and abdominal distension. Farrand S, et al. **Postgrad Med J** 1996 Sep;72(851):567–74
Bacteremia following liver biopsy in transplant recipients with Roux–en–Y choledochojejunostomy. de Diego Lorenzo A, et al. **Rev Esp Enferm Dig** 1997 Apr; 89(4):289–95 **(Eng, Spa)**
Self–inflicted bacteraemia and fungaemia in Vietnamese migrants. Fung KS, et al. **Scand J Infect Dis** 1996; 28(1):83–5
Leuconostoc spp. septicaemia in a child with short bowel syndrome. Monsen T, et al. **Scand J Infect Dis** 1997; 29(3):310–1
A retrospective study of clinical characteristics of acinetobacter bacteremia. Ng TK, et al. **Scand J Infect Dis Suppl** 1996;101:26–32
Postoperative bacteremia in cancer patients with solid tumors undergoing surgery: risk factors, etiology and outcome in 276 patients [letter] Spanik S, et al. **Support Care Cancer** 1997 Jul;5(4):336–8
Does laparoscopy increase bacteremia and endotoxemia in a peritonitis model? Jacobi CA, et al. **Surg Endosc** 1997 Mar;11(3):235–8
Rapid identification of bacterially contaminated platelets using reagent strips: glucose and pH analysis as markers of bacterial metabolism. Burstain JM, et al. **Transfusion** 1997 Mar;37(3):255–8
[Chronic oral infections—a threat to health?] Meurman JH, et al. **Duodecim** 1995;111(14):1348–54 (38 ref.) **(Fin)**
[Campylobacter jejuni septicemia with cutaneous sites in a patient with human immunodeficiency virus infection (letter)] Malbec D, et al. **Rev Med Interne** 1997;18(3):257–8 **(Fre)**
[Edwardsellia tarda septicemia in chronic lymphoid leukemia] Peyrade F, et al. **Rev Med Interne** 1997; 18(3):233–4 (Eng. Abstr.) **(Fre)**
[Peritonsillar and neck abscess with septicemia during interferon therapy in a patient with chronic hepatitis C] Shirahama M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):295–9 **(Jpn)**
[Mitral endocarditis secondary to Streptococcus mitis bacteremic pneumonia] Márquez Lorente MA, et al. **An Med Interna** 1997 Jan;14(1):31–2 (Eng. Abstr.) **(Spa)**
[Bacteremia caused by Campylobacter fetus secondary to rectal biopsy (letter)] Arnal J, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):227–8 **(Spa)**
[Bacteremia caused by Enterococcus avium secondary to thrombosis of the lateral sinus and the internal jugular vein (letter)] Lozano F, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):458 **(Spa)**
[Bacteremia by Porphyromonas asaccharolytica (letter)] Melón O, et al. **Enferm Infecc Microbiol Clin** 1997 Feb; 15(2):121 **(Spa)**
[Bacteremia associated with implantable device for central venous access caused by Bacillus cereus (letter)] Ramos JM, et al. **Enferm Infecc Microbiol Clin** 1996 May; 14(5):331–2 **(Spa)**
[Bacteremias due to the Streptococcus milleri group. An analysis of 18 episodes] Sánchez–Porto A, et al. **Rev Clin Esp** 1997 Jun;197(6):393–7 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Serum antibody concentrations of cytotoxin, exotoxin, A, lipopolysaccharide, protease, and elastase and survival of patients with Pseudomonas aeruginosa bacteremia. Baltch AL, et al. **Clin Infect Dis** 1996 Nov;23(5):1109–16
Fatal disseminated Mycobacterium smegmatis infection in a child with inherited interferon gamma receptor deficiency. Pierre–Audigier C, et al. **Clin Infect Dis** 1997 May; 24(5):982–4
Relapsing bacteremia with highly penicillin–resistant pneumococci in a normal host. Rivera–Matos IR, et al. **Clin Pediatr (Phila)** 1996 Aug;35(8):407–10
Induction of gelatinase B and MCP–2 in baboons during sublethal and lethal bacteraemia. Paemen L, et al. **Cytokine** 1997 Jun;9(6):412–5
New vaccines for the prevention of pneumococcal infections. Käyhty H, et al. **Emerg Infect Dis** 1996 Oct–Dec; 2(4):289–98 (74 ref.)
Transforming growth factor–beta negatively modulates T–cell responses in sepsis. Ahmad S, et al. **FEBS Lett** 1997 Feb 3;402(2–3):213–8
Similarities and disparities between core–specific and O–side–chain–specific antilipopolysaccharide monoclonal antibodies in models of endotoxemia and bacteremia in mice. Bailat S, et al. **Infect Immun** 1997 Feb;65(2):811–4
Role of neutrophils in experimental septicemia and septic arthritis induced by Staphylococcus aureus. Verdrengh M, et al. **Infect Immun** 1997 Jul;65(7):2517–21
Correlation of histopathologic and bacteriologic changes with cytokine expression in an experimental murine model of bacteremic Staphylococcus aureus infection. Yao L, et al. **Infect Immun** 1997 Sep;65(9):3889–95
Protective effect of breastfeeding on invasive Haemophilus influenzae infection: a case–control study in Swedish preschool children. Silfverdal SA, et al. **Int J Epidemiol** 1997 Apr;26(2):443–50
Impairment of bacterial clearance induced by norepinephrine infusion in rabbits. Koch T, et al. **Intensive Care Med** 1996 Jul;22(7):637–43
Bacteria in the bloodstream are trapped in the liver and killed by immigrating neutrophils. Gregory SH, et al. **J Immunol** 1996 Sep 15;157(6):2514–20
Bacteremia versus endotoxemia in experimental mouse leukopenia—role of antibiotic chemotherapy. Bucklin SE, et al. **J Infect Dis** 1996 Dec;174(6):1249–54
Bacterial DNA causes septic shock [letter] Sparwasser T, et al. **Nature** 1997 Mar 27;386(6623):336–7
Dynamics of blood cytokine concentrations in patients with bacteremic infections. Kragsbjerg P, et al. **Scand J Infect Dis** 1996;28(4):391–8

METABOLISM

Effect of intraperitoneal antimicrobials on the concentration of bacteria, endotoxin, and tumor necrosis factor in abdominal fluid and plasma in rats. Rosman C, et al. **Eur Surg Res** 1996;28(5):351–60
Renal function and oxygen consumption during bacteraemia and endotoxaemia in rats. Heemskerk AE, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1586–94
Modulation of skeletal muscle lactate metabolism following bacteremia by insulin or insulin–like growth factor–I: effects of pentoxifylline. Vary TC, et al. **Shock** 1997 Jun; 7(6):432–8
Sepsis inhibits synthesis of myofibrillar and sarcoplasmic proteins: modulation by interleukin–1 receptor antagonist. Vary TC, et al. **Shock** 1996 Jul;6(1):13–8
Contact activation proteins and the bacterial surface. Lottenberg R. **Trends Microbiol** 1996 Nov;4(11):413–4; discussion 414–5 (12 ref.)

MICROBIOLOGY

Bacteraemia with Leptotrichia buccalis: report of a case and review of the literature. Vemelen K, et al. **Acta Clin Belg** 1996;51(4):265–70 (13 ref.)
Prevalence and antibiotic sensitivity pattern variations of bacterial isolates in different settings and different periods of time. Tambić A, et al. **Acta Med Croatica** 1996;50(1):5–10
Increase of staphylococci in neonatal septicaemia: a fourteen–year study. Källman J, et al. **Acta Paediatr** 1997 May;86(5):533–8
Predictive values of species' identifications from the Vitek Gram–Positive Identification Card using clinical isolates of coagulase–negative staphylococci. Kellogg JA, et al. **Am J Clin Pathol** 1996 Sep;106(3):374–7
Staphylococcus aureus bloodstream infections among patients undergoing electroconvulsive therapy traced to breaks in infection control and possible extrinsic contamination by propofol. Kuehnert MJ, et al. **Anesth Analg** 1997 Aug;85(2):420–5
Rapid diagnosis of methicillin–resistant Staphylococcus aureus bacteremia by nested polymerase chain reaction. Kitagawa Y, et al. **Ann Surg** 1996 Nov;224(5):665–71
Community–acquired Pseudomonas aeruginosa infection in an infant. Hendricks MK, et al. **Ann Trop Paediatr** 1996 Sep;16(3):203–6
Change in prevalence and antibiotic resistance of Enterococcus species isolated from blood cultures over an 8–year period [letter] Iwen PC, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):494–5
Evolution of extended–spectrum beta–lactam resistance (SHV–8) in a strain of Escherichia coli during multiple episodes of bacteremia. Rasheed JK, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):647–53
Group B streptococcus bacteremia in nonpregnant adults. Muñoz P, et al. **Arch Intern Med** 1997 Jan 27;157(2):213–6
Haemophilus species bacteremia in adults. The importance of the human immunodeficiency virus epidemic. Muñoz P, et al. **Arch Intern Med** 1997 Sep 8;157(16):1869–73
Septicemia due to a non–0:1, non–0:139 Vibrio cholerae. Christenson B, et al. **Bol Asoc Med P R** 1997 Jan–Mar; 89(1–3):31–2
Etiology of bacteraemia in patients with various malignancies: is there association between certain antineoplastic drugs and microorganism? Baláž M, et al. **Bratisl Lek Listy** 1996 Nov;97(11):675–9
Vibrio cholerae non–O1 primary septicaemia following a large thermal burn. Magnusson MR, et al. **Burns** 1996 Feb; 22(1):44–7
Aerobic bacteria isolated from blood cultures of patients and their antibiotic susceptibilities in Harare, Zimbabwe. Obi CL, et al. **Cent Afr J Med** 1996 Dec;42(12):332–6
Changing patterns of bacterial nosocomial infections: a nine–year study in a general hospital. Maniatis AN, et al. **Chemotherapy** 1997 Jan–Feb;43(1):69–76
Polyclonal staphylococcus bacteremia [editorial; comment] Archer GL. **Clin Infect Dis** 1997 Jul;25(1):72–3. Comment on: Clin Infect Dis 1997 Jul;25(1):69–71.
Recurrent cellulitis and bacteremia caused by Flavobacterium odoratum. Bachman KH, et al. **Clin Infect Dis** 1996 Jun;22(6):1112–3
Skin colonization with vancomycin–resistant enterococci among hospitalized patients with bacteremia. Beezhold DW, et al. **Clin Infect Dis** 1997 Apr;24(4):704–6
Disseminated Mycobacterium gordonae infection in a patient infected with human immunodeficiency virus. Bonnet E, et al. **Clin Infect Dis** 1996 Sep;23(3):644–5
Methylobacterium bacteremia after infusion of contaminated autologous bone marrow. Brown MA, et al. **Clin Infect Dis** 1996 Nov;23(5):1191–2
Septicemia caused by Neisseria weaveri. Carlson P, et al. **Clin Infect Dis** 1997 Apr;24(4):739
Bacteremia due to Acinetobacter baumannii: epidemiology, clinical findings, and prognostic features. Cisneros JM, et al. **Clin Infect Dis** 1996 Jun;22(6):1026–32
Shewanella alga bacteremia in two patients with lower leg ulcers. Domínguez H, et al. **Clin Infect Dis** 1996 Jun; 22(6):1036–9
Achromobacter xylosoxidans bacteremia: report of four cases and review of the literature. Duggan JM, et al. **Clin Infect Dis** 1996 Sep;23(3):569–76 (64 ref.)
Anaerobic bacteremia. Goldstein EJ. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S97–101 (43 ref.)
Flavobacterium indologenes bacteremia: clinical and microbiological characteristics. Hsueh PR, et al. **Clin Infect Dis** 1996 Sep;23(3):550–5
Erysipelothrix rhusiopathiae septicemia in a neonate. Jones N, et al. **Clin Infect Dis** 1997 Mar;24(3):511
Association of enterotoxigenic Bacteroides fragilis with bacteremia. Kato N, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S83–6
Molecular analysis of Burkholderia (Pseudomonas) cepacia: differentiation between relapse and reinfection in a case of recurrent bacteremia. Liu PY, et al. **Clin Infect Dis** 1996 Mar;22(3):584–6
Oerskovia xanthineolytica bacteremia in an immunocompromised host: case report and review. Maguire JD, et al. **Clin Infect Dis** 1996 Mar;22(3):554–6 (11 ref.)
Bacteremia due to Stenotrophomonas (Xanthomonas) maltophilia: a prospective, multicenter study of 91 episodes. Muder RR, et al. **Clin Infect Dis** 1996 Mar;22(3):508–12
Acute epiglottitis due to serogroup Y Neisseria meningitidis

in in an audit. Nelson K, et al. **Clin Infect Dis** 1996 Nov; 23(5):1192–3

Clostridium paraputrificum bacteremia in a patient with AIDS and Duodenal Kaposi's sarcoma. Nerad JL, et al. **Clin Infect Dis** 1996 Nov;23(5):1183–4

Recurrent vancomycin-resistant Enterococcus faecium bacteremia in a leukemia patient who was persistently colonized with vancomycin-resistant enterococci for two years. Roghmann MC, et al. **Clin Infect Dis** 1997 Mar; 24(3):514–5

Lactobacilli and bacteremia in southern Finland, 1989–1992. Saxelin M, et al. **Clin Infect Dis** 1996 Mar;22(3):564–6

Peripartum bacteremia with CDC group HB-5 (Pasteurella bettyae). Shapiro DS, et al. **Clin Infect Dis** 1996 Jun; 22(6):1125–6

Penicillin-resistant Aerococcus viridans bacteremia in a child receiving prophylaxis for sickle-cell disease. Swanson H, et al. **Clin Infect Dis** 1996 Feb;22(2):387–8

Prognostic significance of quantitative bacteremia in septicemic melioidosis. Walsh AL, et al. **Clin Infect Dis** 1995 Dec;21(6):1498–500

Leuconostoc bacteremia after liver transplantation: another cause of vancomycin resistant gram-positive infection. Espinoza R, et al. **Clin Transplant** 1997 Aug;11(4):322–4

In vitro activities of antimicrobial agents, alone and in combination, against Acinetobacter baumannii isolated from blood. Chang SC, et al.
Diagn Microbiol Infect Dis 1995 Nov;23(3):105–110

Vitek GPS card susceptibility testing accuracy using direct inoculation from BACTEC 9240 blood culture bottles. Howard WJ, et al. **Diagn Microbiol Infect Dis** 1996 Feb; 24(2):109–12

Accuracy of the Vitek system for antimicrobial susceptibility testing Enterobacteriaceae bloodstream infection isolates: use of "direct" inoculation from Bactec 9240 blood culture bottles. Putnam LR, et al. **Diagn Microbiol Infect Dis** 1997 Jun;28(2):101–4

Bacteremia due to Agrobacterium tumefaciens (radiobacter). Report of infection in a pregnant women and her stillborn fetus. Southern PM Jr. **Diagn Microbiol Infect Dis** 1996 Jan;24(1):43–5

Genotype analysis of human blood isolates of Campylobacter jejuni in England and Wales. Jackson CJ, et al.
Epidemiol Infect 1997 Apr;118(2):81–9

Characterization of Escherichia coli serotype O12:K1:H7 isolates from an immunocompetent carrier with a history of spontaneous abortion and septicemia. Blum-Oehler G, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):153–5

Prospective study of Streptococcus milleri bacteremia. Casariego E, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):194–200

Nosocomial bacteremia due to vancomycin-resistant Staphylococcus epidermidis in four patients with cancer, neutropenia, and previous treatment with vancomycin [letter] Krcmery V Jr, et al.
Eur J Clin Microbiol Infect Dis 1996 Mar;15(3):259–61

Activity of trovafloxacin against blood isolates of Streptococcus pneumoniae in Sweden. Liljequist BO, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug;15(8):671–5

Bacteremia due to glucose non-fermenting gram-negative bacilli in patients with hematological neoplasias and solid tumors. Martino R, et al.
Eur J Clin Microbiol Infect Dis 1996 Jul;15(7):610–5

Types of methicillin-resistant Staphylococcus aureus associated with high mortality in patients with bacteremia. Nada T, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr; 15(4):340–3

Antibacterial activity of trovafloxacin against gram-positive blood culture isolates from nosocomial infections. Qadri SM, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug; 15(8):694–6

Electrophoresis of whole-cell soluble proteins of microorganisms isolated from bacteremias in endodontic therapy. Debelian GJ, et al. **Eur J Oral Sci** 1996 Oct–Dec; 104(5–6):540–6

Effect of intraperitoneal antimicrobials on the concentration of bacteria, endotoxin, and tumor necrosis factor in abdominal fluid and plasma in rats. Rosman C, et al.
Eur Surg Res 1996;28(5):351–60

Variation in the agr-dependent expression of alpha-toxin and protein A among clinical isolates of Staphylococcus aureus from patients with septicaemia. Li S, et al.
FEMS Microbiol Lett 1997 Jul 1;152(1):155–61

Increasing yields from blood cultures. Jain P.
Indian Pediatr 1996 Nov;33(11):974–5

Investigation of an apparent cluster of Klebsiella pneumoniae bacteremias using random amplified polymorphic DNA analysis. Hurley JC, et al.
Infect Control Hosp Epidemiol 1996 Nov;17(11):743–5

Meningococcemia. Salzman MB, et al.
Infect Dis Clin North Am 1996 Dec;10(4):709–25 (87 ref.)

Role of coagulase in a murine model of hematogenous pulmonary infection induced by intravenous injection of Staphylococcus aureus enmeshed in agar beads. Sawai T, et al. **Infect Immun** 1997 Feb;65(2):466–71

Detection of the intercellular adhesion gene cluster (ica) and phase variation in Staphylococcus epidermidis blood culture strains and mucosal isolates. Ziebuhr W, et al.
Infect Immun 1997 Mar;65(3):890–6

Bacteremia due to teicoplanin-resistant and vancomycin-susceptible Staphylococcus haemolyticus in seven patients with acute leukemia and neutropenia receiving prophylaxis with ofloxacin [letter] Krčméry V Jr, et al. **Infection** 1997 Jan–Feb;25(1):51–2

Bioprosthetic valve endocarditis caused by Neisseria elongata subspecies nitroreducens. Meuleman P, et al. **Infection** 1996 May–Jun;24(3):258–60

Nosocomial septicemias due to methicillin-resistant staphylococcus aureus and Pseudomonas aeruginosa in a university hospital over a 12-year period--the same intractable infections. Mizushima Y, et al. **Infection** 1996 May–Jun;24(3):238–41

Recurrent Helicobacter cinaedi cellulitis and bacteraemia in a patient with HIV Infection. Sullivan AK, et al.
Int J STD AIDS 1997 Jan;8(1):59–60

Impact of Mycobacterium avium complex prophylaxis on the incidence of mycobacterial infections and transfusion-requiring anemia in an HIV-positive population. Kravcik S, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1996 Sep; 13(1):27–32

Antimicrobial susceptibility of 278 streptococcal blood isolates to seven antimicrobial agents. Renneberg J, et al.
J Antimicrob Chemother 1997 Feb;39(2):135–40

Salmonella bacteremia presenting with visual loss [letter] Kulkarni AC, et al. **J Assoc Physicians India** 1995 Jan; 43(1):69–70

Cefoperazone monotherapy for serious infections in hospitalized patients--an initial Indian experience. Shah SS, et al. **J Assoc Physicians India** 1995 Jun;43(6):398–9

Vancomycin susceptibility in enterococcal blood isolates in Italy: a multicenter retrospective analysis. Venditti M, et al. **J Chemother** 1996 Feb;8(1):33–6

Recurrent CDC group IVc-2 bacteremia in a human with AIDS. Anderson RR, et al. **J Clin Microbiol** 1997 Mar; 35(3):780–2 (15 ref.)

Pediatric bacteremia due to Staphylococcus warneri: microbiological, epidemiological, and clinical features. Buttery JP, et al. **J Clin Microbiol** 1997 Aug;35(8):2174–7

Comparison of biotyping, ribotyping, and pulsed-field gel electrophoresis for investigation of a common-source outbreak of Burkholderia pickettii bacteremia. Chetoui H, et al. **J Clin Microbiol** 1997 Jun;35(6):1398–403

Characterization of two unusual clinically significant Francisella strains. Clarridge JE 3rd, et al.
J Clin Microbiol 1996 Aug;34(8):1995–2000

Mycobacterium malmoense bacteremia in two AIDS patients. Fakih M, et al. **J Clin Microbiol** 1996 Mar;34(3):731–3

Veillonella parvula bacteremia without an underlying source. Fisher RG, et al. **J Clin Microbiol** 1996 Dec;34(12):3235–6

Bacteremia caused by Arcobacter cryaerophilus 1B. Hsueh PR, et al. **J Clin Microbiol** 1997 Feb;35(2):489–91

Indwelling device-related bacteremia caused by serum-susceptible Campylobacter coli. Hsueh PR, et al.
J Clin Microbiol 1997 Aug;35(8):2178–80

Bacteremia caused by a recently described novel Desulfovibrio species. McDougall R, et al.
J Clin Microbiol 1997 Jul;35(7):1805–8

Fulminating bacteremia and pneumonia due to Bacillus cereus [published erratum appears in J Clin Microbiol 1997 May;35(5):1294] Miller JM, et al. **J Clin Microbiol** 1997 Feb;35(2):504–7

Vancomycin-resistant Aureobacterium species cellulitis and bacteremia in a patient with acute myelogenous leukemia. Nolte FS, et al. **J Clin Microbiol** 1996 Aug;34(8):1992–4

Bacteremia due to Gordona sputi in an immunocompromised patient [published erratum appears in J Clin Microbiol 1996 Dec;34(12):3258] Riegel P, et al. **J Clin Microbiol** 1996 Aug;34(8):2045–7

Kingella kingae bacteremia in an immunocompetent adult host [letter] Roiz MP, et al. **J Clin Microbiol** 1997 Jul; 35(7):1916

Identification and characterization of Serpulina pilosicoli isolates recovered from the blood of critically ill patients. Trott DJ, et al. **J Clin Microbiol** 1997 Feb;35(2):482–5

Comparison of BACTEC 9240 Peds Plus medium and isolator 1.5 microbial tube for detection of Brucella melitensis from blood cultures. Yagupsky P, et al.
J Clin Microbiol 1997 Jun;35(6):1382–4

Controlled comparison of bioMérieux VITAL and BACTEC NR-660 systems for detection of bacteremia and fungemia in pediatric patients. Zaidi AK, et al. **J Clin Microbiol** 1997 Aug;35(8):2007–12

Clinical isolation of vancomycin-resistant Enterococcus faecalis in Taiwan. Ben RJ, et al. **J Formos Med Assoc** 1996 Dec;95(12):946–9

MRSA bacteraemia [letter] Catchpole C, et al.
J Hosp Infect 1997 Feb;35(2):159–61

Escherichia coli bacteraemia. Serotype O15:K52:H1 as a urinary pathogen [letter; comment] Dalmau D, et al.
J Hosp Infect 1996 Nov;34(3):233–4. Comment on: J Hosp Infect 1995 Dec;31(4):295–304.

Changing patterns of susceptibilities of blood, urinary and respiratory pathogens in Hong Kong. Ho P, et al.
J Hosp Infect 1995 Dec;31(4):305–17

Septicaemia due to Streptococcus pyogenes in an intravenous drug abusing couple [letter] Kolokithas D, et al.
J Hosp Infect 1997 Mar;35(3):248–50

A comparative study of nosocomial and community-acquired strains of Escherichia coli causing bacteraemia in a Danish University Hospital [see comments] Olesen B, et al.
J Hosp Infect 1995 Dec;31(4):295–304. Comment in: J Hosp Infect 1996 Nov;34(3):233–4.

Increasing incidence of carbapenem-resistant Pseudomonas aeruginosa bacteraemia in a cancer centre over a seven-year period [letter] Spanik S, et al.
J Hosp Infect 1997 Mar;35(3):250–1

Breakthrough nosocomial bacteraemia due to teicoplanin-resistant Staphylococcus haemolyticus in five patients with acute leukaemia [letter] Spanik S, et al.
J Hosp Infect 1997 Feb;35(2):155–9

Streptococcus vestibularis bacteraemia [letter] Cunliffe NA, et al. **J Infect** 1997 Jan;34(1):85

Rhodococcus equi causing bacteraemia and pneumonia in a pulmonary transplant patient [letter] Le Lay G, et al.
J Infect 1996 Nov;33(3):239–40

Assessment of similarity among coagulase-negative staphylococci from sequential blood cultures of neonates and children by pulsed-field gel electrophoresis. Zaidi AK, et al. **J Infect Dis** 1996 Nov;174(5):1010–4

The ability of a Proteus mirabilis strain to invade the bloodstream is independent of its proticine production/proticine sensitivity type. Senior BW.
J Med Microbiol 1997 May;46(5):407–12

Septicemia caused by Salmonella infection: an overlooked complication of sickle cell disease [see comments] Wright J, et al. **J Pediatr** 1997 Mar;130(3):394–9. Comment in: J Pediatr 1997 Mar;130(3):350–1.

Spectrum of Haemophilus influenzae type b disease in children at a university hospital in Riyadh, Saudi Arabia. Abdullah AM, et al. **J Trop Pediatr** 1997 Feb;43(1):10–2

Vancomycin-dependent Enterococcus faecalis [letter] [see comments] Farrag N, et al. **Lancet** 1996 Dec 7; 348(9041):1581–2. Comment in: Lancet 1997 Feb 8;349(9049):429. Comment in: Lancet 1997 Feb 8;349(9049):429–30. Comment in: Lancet 1997 Feb 8;349(9049):430.

Methicillin-resistant Staphylococcus aureus and vancomycin-resistant enterococci [letter] Jumaa PA, et al.
Lancet 1997 Sep 6;350(9079):738–9

Comparative study of a non-radiometric BACTEC system and a conventional blood culture system in a clinical microbiology laboratory. Yew OF, et al.
Malays J Pathol 1995 Jun;17(1):11–5

Leuconostoc bacteremia in an infant with short-gut syndrome: case report and literature review. Dhodapkar KM, et al. **Mayo Clin Proc** 1996 Dec;71(12):1171–4 (24 ref.)

Fatal human melioidosis in south-eastern Queensland. Scott IA, et al. **Med J Aust** 1997 Feb 17;166(4):197–9

Group A streptococcal bacteremia. A 10-year prospective study. Bernaldo de Quirós JC, et al.
Medicine (Baltimore) 1997 Jul;76(4):238–48 (94 ref.)

Successful treatment of persistent bacteremia due to vancomycin-resistant, ampicillin-resistant Enterococcus faecium. Mekonen ET, et al. **Microb Drug Resist** 1995 Fall; 1(3):249–53

Canary finches (Serinus canaria) as an avian infection model for Lyme borreliosis. Olsen B, et al. **Microb Pathog** 1996 Jun;20(6):319–24

Detection of Burkholderia pseudomallei in blood samples using polymerase chain reaction. Rattanathongkom A, et al. **Mol Cell Probes** 1997 Feb;11(1):25–31

Images in clinical medicine. Meningococcemia [see comments] Gomez R, et al. **N Engl J Med** 1997 Mar 6; 336(10):707. Comment in: N Engl J Med 1997 Jul 17;337(3):204.

Haemophilus influenzae salpingitis and septicemia in an adult. Carmeci C, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):863

Clostridium tertium bacteremia: 2 cases and review. Gosbell IB, et al. **Pathology** 1996 Jan;28(1):70–3 (26 ref.)

Plesiomonas shigelloides and sucrose-positive Edwardsiella tarda bacteremia in a man with obstructive jaundice. Leung MJ. **Pathology** 1996 Jan;28(1):68–9

Bartonella (Rochalimaea) quintana causing fever and bacteremia in an immunocompromised patient with non-Hodgkin's lymphoma. Rathbone P, et al. **Pathology** 1996 Jan;28(1):80–3

Posterior mediastinal abscess caused by invasive group A Streptococcus infection. Conway JH, et al.
Pediatr Infect Dis J 1996 Jun;15(6):547–9

Group B streptococcal sepsis and meningitis complicated with severe sensorineural hearing loss in a fourteen-year-old boy. Likitnukul S, et al.
Pediatr Infect Dis J 1996 May;15(5):468–70 (15 ref.)

Campylobacter bacteremia in children. Reed RP, et al.
Pediatr Infect Dis J 1996 Apr;15(4):345–8

Two case reports and review of vascular catheter-associated bacteremia caused by nontuberculous Mycobacterium species. Rodgers GL, et al. **Pediatr Infect Dis J** 1996 Mar; 15(3):260–4 (50 ref.)

Non-O:1 Vibrio cholerae bacteremia and peritonitis in a patient with nephrotic syndrome [letter] Thomas M, et al.
Pediatr Infect Dis J 1996 Mar;15(3):276–7

Micrococcus luteus as a cause of recurrent bacteremia. von Eiff C, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):711–3

Patients with bacteremia dying before notification of positive blood cultures: a 3-year clinical study. Pedersen G, et al.
Scand J Infect Dis 1997;29(2):169–73

Viridans streptococcal bacteraemia due to penicillin-resistant and penicillin-sensitive streptococci: analysis of risk factors and outcome in 60 patients from a single cancer centre before and after penicillin is used for prophylaxis. Spanik S, et al. **Scand J Infect Dis** 1997;29(3):245–9

Susceptibilities to 23 antimicrobial agents and beta-lactamase production of blood culture isolates of Acinetobacter sp

in Hong Kong. Ling JM, et al.
Scand J Infect Dis Suppl 1996;101:21–5

Transient Campylobacter bacteremia in a healthy child. Smally AJ, et al. **South Med J** 1996 Nov;89(11):1123–4

Analysis of 553 episodes of monomicrobial bacteraemia in cancer patients: any association between risk factors and outcome to particular pathogen? Spanik S, et al.
Support Care Cancer 1997 Jul;5(4):330–3

Invasive streptococcal infections. Report of four cases occurring in Trinidad. Swanston WH, et al.
West Indian Med J 1997 Mar;46(1):25–7

[Clinical analysis of anaerobic septicemia in 26 patients with extensive burn] Huang X, et al.
Chung Hua Wai Ko Tsa Chih 1995 Dec;33(12):752–3 (Eng. Abstr.) **(Chi)**

[Erysipelothrix rhusiopathiae bacteremia after dog bite] Abedini S, et al. **Ugeskr Laeger** 1997 Jul 7;159(28):4400–1 (Eng. Abstr.) **(Dan)**

[Primary Vibrio vulnificus septicemia. 1st documented case in the French West Indies] Lamaury I, et al.
Presse Med 1997 Mar 8;26(7):316–8 (Eng. Abstr.) **(Fre)**

[Clinical and preclinical efficacy of antimicrobial catheters] Schierholz JM, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1997 May; 32(5):298–305 (102 ref.) (Eng. Abstr.) **(Ger)**

[Sepsis related to a permanent central venous catheter in children with neoplastic disease: practical implications of a continuous surveillance of the etiology] Castagnola E, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5):511–3 (Eng. Abstr.) **(Ita)**

[Study of septicemia due to Enterobacter cloacae in a neonatal intensive care unit] Sakata H, et al.
Kansenshogaku Zasshi 1997 Apr;71(4):318–22 (Eng. Abstr.) **(Jpn)**

[Bacteriological tests] Okada J. **Rinsho Byori** 1996 Nov;Suppl 103:227–34 **(Jpn)**

[Borreliosis in laboratory rabbits] Grigor'eva LA.
Parazitologiia 1996 Mar–Apr;30(2):184–6 (Eng. Abstr.) **(Rus)**

[The rapid microbiological control of the efficacy of the antibacterial therapy of bacteremia and septicemia] Kotliarova GA, et al. **Urol Nefrol (Mosk)** 1997 May–Jun; (3):8–13 (Eng. Abstr.) **(Rus)**

[Acute sinusitis, bacteremia and meningitis caused by group F beta-hemolytic Streptococcus] Pérez C, et al.
Acta Otorrinolaringol Esp 1996 Sep–Oct;47(5):401–3 (Eng. Abstr.) **(Spa)**

[Biliary infection and bacteremia caused by Haemophilus influenzae (letter)] Garcés Garmendía MA, et al.
An Med Interna 1996 Nov;13(11):566–7 **(Spa)**

[Septic metastasis in Klebsiella pneumoniae bacteremia (letter)] Ruiz Laiglesia FJ, et al. **An Med Interna** 1996 Feb; 13(2):95 **(Spa)**

[Bacteremia caused by Corynebacterium urealyticum in 2 patients co-infected with HIV and HBV (letter)] Aracil B, et al. **Enferm Infecc Microbiol Clin** 1997 Mar;15(3):172–3 **(Spa)**

[Prevalence of antimicrobial resistance in enterococci isolated from blood in Madrid (1994–1995)] Balas D, et al.
Enferm Infecc Microbiol Clin 1997 Jan;15(1):22–3 (Eng. Abstr.) **(Spa)**

[Transient bacteremia caused by Corynebacterium urealyticum: apropos of 2 cases] Buendía B, et al.
Enferm Infecc Microbiol Clin 1996 Jun–Jul;14(6):367–9 (Eng. Abstr.) **(Spa)**

[Bacteremia caused by Stenotrophomonas (Xanthomonas) maltophila (letter)] Campos-Herrero MI, et al.
Enferm Infecc Microbiol Clin 1997 Apr;15(4):223–5 **(Spa)**

[Bacteremia caused by Enterococcus avium secondary to thrombosis of the lateral sinus and the internal jugular vein (letter)] Lozano F, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):458 **(Spa)**

[Bacteremia caused by Erysipelothrix rhusiopathiae in an HIV-positive patient (letter)] Marne C, et al.
Enferm Infecc Microbiol Clin 1996 Jun–Jul;14(6):403–4 **(Spa)**

[Bacteremia caused by Vibrio vulnificus in a patient with a skin ulcer exposed to sea water (letter)] Olga Pérez-Moreno MM, et al. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):512–3 **(Spa)**

[Bacteremia caused by Alcaligenes (Achromobacter) xylosoxidans. Description of 3 cases and review of the literature] Ramos JM, et al.
Enferm Infecc Microbiol Clin 1996 Aug–Sep;14(7):436–40 (38 ref.) (Eng. Abstr.) **(Spa)**

[Kluyvera ascorbata bacteremia (letter)] Padilla E, et al.
Med Clin (Barc) 1997 Mar 29;108(12):479 **(Spa)**

[Bacteremia caused by Pseudomonas aeruginosa in patients with AIDS] Bouza Santiago E, et al. **Rev Clin Esp** 1996 Oct;196(10):698–702 (Eng. Abstr.) **(Spa)**

[Epidural catheter infection. A forgotten prosthetic device? (letter; comment)] Morano Amado LE, et al.
Rev Clin Esp 1996 Nov;196(11):801–2. Comment on: Rev Clin Esp 1995 Jul;195(7):497–506. **(Spa)**

[Bacteremia and endocarditis caused by Streptococcus bovis in patients with alcoholic hepatopathy without evidence of colonic pathology] Castroagudín JF, et al.
Rev Esp Enferm Dig 1996 Sep;88(9):605–8 (Eng. Abstr.) **(Spa)**

[Bacteremia for Aeromonas sobria in a patient with cholecystitis (letter)] Torres L, et al.
Rev Esp Enferm Dig 1997 Apr;89(4):332 **(Spa)**

MORTALITY

Concomitant bacteraemia as a risk factor for diarrhoeal disease mortality in Karachi: a case-control study of hospitalized children [published erratum appears in Acta Paediatr 1996 Sep;85(9):1136] Bhutta ZA, et al.
Acta Paediatr 1996 Jul;85(7):809–13

Childhood mortality during and after hospitalization in western Kenya: effect of malaria treatment regimens [published erratum appears in Am J Trop Med Hyg 1997 Mar;56(3):358] Zucker JR, et al. **Am J Trop Med Hyg** 1996 Dec;55(6):655–60

Enterococcal bacteremia in the surgical intensive care unit. Does vancomycin resistance affect mortality? The Johns Hopkins SICU Study Group. Mainous MR, et al.
Arch Surg 1997 Jan;132(1):76–81

Vancomycin-resistant enterococcal bacteremia: natural history and attributable mortality. Edmond MB, et al.
Clin Infect Dis 1996 Dec;23(6):1234–9

Vancomycin resistance and mortality associated with enterococcal bacteremia [letter; comment] Lautenbach E, et al. **Clin Infect Dis** 1997 Mar;24(3):530–1. Comment on: Clin Infect Dis 1996 Apr;22(4):663–70.

Microbiological factors influencing the outcome of nosocomial bloodstream infections: a 6-year validated, population-based model. Pittet D, et al. **Clin Infect Dis** 1997 Jun;24(6):1068–78

Mortality associated with nosocomial bacteremia due to methicillin-resistant Staphylococcus aureus.
Romero-Vivas J, et al. **Clin Infect Dis** 1995 Dec; 21(6):1417–23

Nosocomial bacteremia in critically ill patients: a multicenter study evaluating epidemiology and prognosis. Spanish Collaborative Group for Infections in Intensive Care Units of Sociedad Espanola de Medicina Intensiva y Unidades Coronarias (SEMIUC). Vallés J, et al. **Clin Infect Dis** 1997 Mar;24(3):387–95

Types of methicillin-resistant Staphylococcus aureus associated with high mortality in patients with bacteremia. Nada T, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr; 15(4):340–3

Septic shock as a predictor of mortality in bacteremia caused by coagulase-negative staphylococci. Topeli A, et al.
Eur J Clin Microbiol Infect Dis 1997 Jun;16(6):411–6

Risk factors for mortality associated with enterococcal bloodstream infections. Stroud L, et al.
Infect Control Hosp Epidemiol 1996 Sep;17(9):576–80

Bacteraemic pneumococcal disease in a teaching hospital in Finland. Laaveri T, et al. **Scand J Infect Dis** 1996;28(1):41–6

[Bacteremia in the elderly. Clinical features and prognostic factors] Corredoira Sánchez JC, et al. **Med Clin (Barc)** 1997 Jun 28;109(5):165–70 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Lung microvessel injury from peritoneal abscesses and gram-negative bacteremia. Jones R, et al.
Microvasc Res 1996 Jul;52(1):84–100

PHYSIOPATHOLOGY

Role of endotoxin in the response to experimentally induced bacteremia in chronically prepared rats. Carlson DE, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1562–70

Changes in regional hemodynamics after nitric oxide inhibition during ovine bacteremia. Lingnau W, et al.
Am J Physiol 1996 Jan;270(1 Pt 2):R207–16

Endogenous modulators of TNF and IL-1 response are under partial control of TNF in baboon bacteremia. Redl H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1193–8

Anaplasma marginale: effect of challenge of cattle with varying doses of infected erythrocytes. Gale KR, et al.
Int J Parasitol 1996 Dec;26(12):1417–20

Necrotizing fasciitis due to group A streptococci: a clinicopathological study of six patients. Misago N, et al.
J Dermatol 1996 Dec;23(12):876–82

Differential intestinal microvascular dysfunction occurs during bacteremia. Spain DA, et al. **J Surg Res** 1997 Jan; 67(1):67–71

Liver endothelial cell function is depressed only during hypodynamic sepsis. Wang P, et al. **J Surg Res** 1997 Feb 15;68(1):38–43

Chronic septicemia alters alpha-adrenergic mechanisms in the coronary circulation. Wang SY, et al. **J Surg Res** 1997 Apr;69(1):61–6

Renal function and oxygen consumption during bacteraemia and endotoxaemia in rats. Heemskerk AE, et al.
Nephrol Dial Transplant 1997 Aug;12(8):1586–94

A porcine model of peritonitis and bacteremia simulates human septic shock. Goldfarb RD, et al. **Shock** 1996 Dec; 6(6):442–51

Pathophysiologic plasma levels of leukotriene C4 in relation to the hemodynamic dysfunction and mediator release of graded bacteremia. Zeltsman D, et al. **Shock** 1997 Apr; 7(4):282–7

PREVENTION & CONTROL

The use of antibiotics to prevent serious sequelae in children at risk for occult bacteremia: a meta-analysis. Bulloch B, et al. **Acad Emerg Med** 1997 Jul;4(7):679–83

Community-acquired bacteremia in HIV-positive patients: protective benefit of co-trimoxazole [see comments] Edge MD, et al. **AIDS** 1996 Dec;10(14):1635–9. Comment in: AIDS 1997 Jul;11(8):1070–1.

Role of trimethoprim-sulphamethoxazole in preventing HIV-associated bacteraemia [letter; comment] Tumbarello M, et al. **AIDS** 1997 Jul;11(8):1070–1. Comment on: AIDS 1996 Dec;10(14):1635–9.

The effect of timing of single-dose transplacental ampicillin-sulbactam therapy for prevention of neonatal group B streptococcal colonization and bacteremia in a rabbit model. McDuffie RS Jr, et al.
Am J Obstet Gynecol 1996 Aug;175(2):406–10

Breakthrough bacteraemic and fungaemic episodes during antimicrobial prophylaxis and therapy in cancer patients: analysis of risk factors, etiology, therapy and outcome in 123 episodes. Spánik S, et al. **Bratisl Lek Listy** 1996 Nov; 97(11):652–9

A thermal burn to a prolapsed uterus. Sagi A, et al.
Burns 1997 Mar;23(2):174–5

Prophylaxis with fluoroquinolones for bacterial infections in neutropenic patients: a meta-analysis. Cruciani M, et al.
Clin Infect Dis 1996 Oct;23(4):795–805

Failure of cefonicid prophylaxis for infectious complications related to endoscopic retrograde cholangiopancreatography [see comments] Finkelstein R, et al. **Clin Infect Dis** 1996 Aug;23(2):378–9. Comment in: Clin Infect Dis 1996 Aug;23(2):380–4.

Failure of cefonicid prophylaxis for infectious complications related to endoscopic retrograde cholangiopancreatography [editorial; comment] Lo SK.
Clin Infect Dis 1996 Aug;23(2):380–4. Comment on: Clin Infect Dis 1996 Aug;23(2):378–9.

Minocycline and ethylenediaminetetraacetate for the prevention of recurrent vascular catheter infections. Raad I, et al. **Clin Infect Dis** 1997 Jul;25(1):149–51

New vaccines for the prevention of pneumococcal infections. Käyhty H, et al. **Emerg Infect Dis** 1996 Oct–Dec; 2(4):289–98 (74 ref.)

Effects of prophylactic administration of cefaclor on transient bacteremia after dental extraction. Hall G, et al.
Eur J Clin Microbiol Infect Dis 1996 Aug;15(8):646–9

Selective intrapartum anti-bioprophylaxy of group B streptococci infection of neonates: a prospective study in 2454 subsequent deliveries. Poulain P, et al.
Eur J Obstet Gynecol Reprod Biol 1997 Apr;72(2):137–40

Systemic antibiotic prophylaxis after gastrointestinal hemorrhage in cirrhotic patients with a high risk of infection. Pauwels A, et al. **Hepatology** 1996 Oct; 24(4):802–6

Bacteremia and fungemia occurring during antimicrobial prophylaxis with ofloxacin in cancer patients: risk factors, etiology and outcome. Spanik S, et al. **J Chemother** 1996 Oct;8(5):387–93

Acyclovir prophylaxis and fever during remission-induction therapy of patients with acute myeloid leukemia: a randomized, double-blind, placebo-controlled trial. Bergmann OJ, et al. **J Clin Oncol** 1997 Jun;15(6):2269–74

Community immunization programme in response to an outbreak of invasive Neisseria meningitidis serogroup C infection in the Trent region of England 1995–1996. Irwin DJ, et al. **J Public Health Med** 1997 Jun;19(2):162–70

Sepsis associated with hematological malignancies: prophylaxis of Pseudomonas aeruginosa sepsis. Sakamoto M, et al. **Kansenshogaku Zasshi** 1996 Feb;70(2):116–22

Efficacy of a vancomycin solution to prevent bacteremia associated with an indwelling central venous catheter in neutropenic and non-neutropenic cancer patients. Barriga FJ, et al. **Med Pediatr Oncol** 1997 Mar;28(3):196–200

The impact of Haemophilus influenzae type b vaccination in Sweden. Garpenholt O, et al. **Scand J Infect Dis** 1996; 28(2):165–9

Staphylococcal bacteremia in cancer patients: risk factors and outcome in 134 episodes prior to and after introduction of quinolones into infection prevention in neutropenia. Kukuckova E, et al. **Support Care Cancer** 1996 Nov; 4(6):427–34

Prophylactic antibiotics eliminate bacteremia and allow safe outpatient management following high-dose chemotherapy and autologous stem cell rescue. Meisenberg B, et al.
Support Care Cancer 1996 Sep;4(5):364–9

Intravenous administration of vancomycin is ineffective against bacteremia following tooth extraction. Kaneko A, et al. **Tokai J Exp Clin Med** 1995 May;20(1):65–6

Transient bacteremia after tooth extraction with intravenous cefuroxime prophylaxis. Nohara T, et al.
Tokai J Exp Clin Med 1995 Dec;20(4–6):257–9

[Inguinal hernia: contribution of randomized studies over the last 10 years] Parc Y, et al. **Ann Chir** 1996;50(9):827–31 (18 ref.) (Eng. Abstr.) **(Fre)**

[Chemotherapy schedules and bacteremia in adult patients with acute leukemia] Brodsky AL, et al.
Medicina (B Aires) 1996;56(4):327–32 (Eng. Abstr.) **(Spa)**

[Bacterial contamination of platelet concentrates (letter)] Araújo F, et al. **Sangre (Barc)** 1996 Dec;41(6):483–4 **(Spa)**

THERAPY

Catheter-related bacteremia and outcome of attempted catheter salvage in patients undergoing hemodialysis. Marr KA, et al. **Ann Intern Med** 1997 Aug 15;127(4):275–80

Controlled mechanical hypoventilation in a paediatric burn

patient as treatment of acute respiratory distress syndrome. Trop M, et al. **Burns** 1997 Mar;23(2):166–9
Catheter-related bacteremia due to Mycobacterium avium complex. Dubé MP, et al. **Clin Infect Dis** 1996 Aug; 23(2):405–6
Can aggressive treatment of diabetic foot infections reduce the need for above-ankle amputation? Tan JS, et al. **Clin Infect Dis** 1996 Aug;23(2):286–91
Effect of CO2 pneumoperitoneum on bacteremia in experimental peritonitis. Ozgüç H, et al. **Eur Surg Res** 1996; 28(2):124–9
Exchange transfusion in septic neonates with sclerema: effect on immunoglobulin and complement levels. Sadana S, et al. **Indian Pediatr** 1997 Jan;34(1):20–5
Anti-CD11b monoclonal antibody in an infant rat model of Haemophilus influenzae type b sepsis and meningitis. Tan TQ, et al. **J Antimicrob Chemother** 1997 Feb;39(2):209–16
A recombinant tumor necrosis factor-alpha p80 receptor:Fc fusion protein decreases circulating bioactive tumor necrosis factor-alpha but not lung injury or mortality during immunosuppression-related gram-negative bacteremia. Lechner AJ, et al. **J Crit Care** 1997 Mar; 12(1):28–38
The influence of clinical study design on cost-effectiveness projections for the treatment of gram-negative sepsis with human anti-endotoxin antibody. Linden PK, et al. **J Crit Care** 1995 Dec;10(4):154–64
Management of catheter-related bacteremia and fungemia in patients on total parenteral nutrition. Widmer AF. **Nutrition** 1997 Apr;13(4 Suppl):18S–25S (84 ref.)
The treatment of septicemia in pacemaker patients. Böhm A, et al. **Pacing Clin Electrophysiol** 1996 Jul;19(7):1105–11
Novel approaches to the treatment of sepsis: lessons learned and future directions. Cross A. **Shock** 1996;6 Suppl 1:S71–4 (19 ref.)
[Comparative study of the protective role of the vaccine against Haemophilus influenzae type b and partial splenectomy in an experimental model] Pérez Maestu R, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):5–9 (Eng. Abstr.) **(Spa)**

TRANSMISSION

Increasing rates of Staphylococcus aureus bacteremia—a medical device is a merit in disguise and methicillin resistance is merely a vice [editorial; comment] Darouiche RO, et al. **Clin Infect Dis** 1996 Aug;23(2):260–1. Comment on: Clin Infect Dis 1996 Aug;23(2):255–9.
Nosocomial and community-acquired Staphylococcus aureus bacteremias from 1980 to 1993: impact of intravascular devices and methicillin resistance [see comments] Steinberg JP, et al. **Clin Infect Dis** 1996 Aug;23(2):255–9. Comment in: Clin Infect Dis 1996 Aug;23(2):260–1.
Transmission of Anaplasma marginale with adult Boophilus microplus ticks fed as nymphs on calves with different levels of rickettsaemia. Aguirre DH, et al. **Parasite** 1994 Dec;1(4):405–7
Klebsiella bacteraemia: community versus nosocomial infection. Yinnon AM, et al. **QJM** 1996 Dec;89(12):933–41
Risk factors for neonatal Klebsiella septicemia in Srinagarind Hospital. Pengsaa K, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):102–6
[Fatal Yersinia infection after intraoperative transfusion] Schwalbe B, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Dec; 31(10):658–60 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Beta haemolytic streptococcal infection does not cause right diaphragmatic eventration. Jain M, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):188–9

VETERINARY

Relapsing bacteremia after blood transmission of Bartonella henselae to cats. Kordick DL, et al. **Am J Vet Res** 1997 May;58(5):492–7
Experimental reproduction of Escherichia coli cellulitis and septicemia in broiler chickens. Gomis SM, et al. **Avian Dis** 1997 Jan–Mar;41(1):234–40
Use of a clinical sepsis score for predicting bacteremia in neonatal dairy calves on a calf rearing farm. Fecteau G, et al. **Can Vet J** 1997 Feb;38(2):101–4
Bacteriological culture of blood from critically ill neonatal calves. Fecteau G, et al. **Can Vet J** 1997 Feb;38(2):95–100
The putative association of alpha haemolytic streptococci with maternal mastitis and neonatal septicaemia. Leadon DP, et al. **Equine Vet J Suppl** 1988 Sep;(5):44–5
Serratia marcescens contamination of feline whole blood in a hospital blood bank. Hohenhaus AE, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):794–8
Prevalence of bacterial resistance to quinolones and other antimicrobials among avian Escherichia coli strains isolated from septicemic and healthy chickens in Spain. Blanco JE, et al. **J Clin Microbiol** 1997 Aug;35(8):2184–5
Prevalence of Bartonella henselae and Bartonella clarridgeiae in stray cats. Heller R, et al. **J Clin Microbiol** 1997 Jun; 35(6):1327–31
Septicaemic Erysipelothrix rhusiopathiae infection in the Little Swift (Apus affinis). Van Vuuren M, et al. **J S Afr Vet Assoc** 1990 Dec;61(4):170–1
Actinobacillus suis-like organisms associated with septicemia in neonatal calves. DeBey BM, et al. **J Vet Diagn Invest** 1996 Apr;8(2):248–50
Fusobacterium necrophorum septicemia in a lamb: pathologic and microbiologic characterization. Ramos-Vara JA, et al. **J Vet Diagn Invest** 1997 Jan;9(1):79–82
An outbreak of Actinobacillus suis septicemia in grow/finish pigs. Yaeger MJ. **J Vet Diagn Invest** 1996 Jul;8(3):381–3
Effects on endotoxin pathogenicity in pigs with acute septicemia of Haemophilus parasuis infection. Amano H, et al. **J Vet Med Sci** 1997 Jun;59(6):451–5
Susceptibility of selected rodent species from Colorado to Borrelia burgdorferi. Ubico SR, et al. **J Wildl Dis** 1996 Apr;32(2):293–9
Prevalence of Bartonella henselae bacteremia, the causative agent of cat scratch disease, in an Australian cat population. Branley J, et al. **Pathology** 1996 Aug;28(3):262–5
Outbreak of infectious bursal disease associated with acute septicaemic colibacillosis in adult prelayer hens. Igbokwe IO, et al. **Rev Elev Med Vet Pays Trop** 1996;49(2):110–3
Bacterial isolates from plaque and from blood during and after routine dental procedures in dogs. Nieves MA, et al. **Vet Surg** 1997 Jan–Feb;26(1):26–32
[Listeriosis in a rabbitry] Peters M, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Nov;103(11):460–2 (Eng. Abstr.) **(Ger)**

BACTEREMIA, HEMORRHAGIC see **HEMORRHAGIC BACTEREMIA**

BACTERIA

Anaesthetic machine and breathing system contamination and the efficacy of bacterial/viral filters. Hogarth I. **Anaesth Intensive Care** 1996 Apr;24(2):154–63 (74 ref.)
Prokaryotic diversity and the importance of culturing. Palleroni NJ. **Antonie Van Leeuwenhoek** 1997 Jul;72(1):3–19 (162 ref.)
Molecular evolution in bacteria: surfaces, cathodes and anodes. Trevors JT. **Antonie Van Leeuwenhoek** 1997 May; 71(4):363–8
Enzymatic removal and disinfection of bacterial biofilms. Johansen C, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3724–8
Ingestion of yogurt containing Lactobacillus acidophilus compared with pasteurized yogurt as prophylaxis for recurrent candidal vaginitis and bacterial vaginosis. Shalev E, et al. **Arch Fam Med** 1996 Nov–Dec;5(10):593–6
Biodegradation of N-phosphonomethyliminodiacetic acid by microorganisms from industrial activated sludge. Carson DB, et al. **Can J Microbiol** 1997 Jan;43(1):97–101
Trans unsaturated fatty acids in bacteria. Keweloh H, et al. **Lipids** 1996 Feb;31(2):129–37 (82 ref.)
Challenging food microbiology from a molecular perspective. Stewart GS. **Microbiology** 1997 Jul;143 (Pt 7):2099–108 (52 ref.)
Prevention of microbial contamination of the dental unit caused by suction into the turbine drive air lines. Ojajärvi J. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):50–2
Dating the cenancester of organisms [letter; comment] Gogarten JP, et al. **Science** 1996 Dec 6;274(5293):1750–1; discussion 1751–3. Comment on: Science 1996 Jan 26;271(5248):470–7.
[Recent clinical circumstance causing by antibiotics-resistant bacterial strains] Kaku M. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1843–7 (8 ref.) **(Jpn)**
[Lists of bacterial names validated in 1995] Kosako Y. **Nippon Saikingaku Zasshi** 1996 Aug;51(3):877–901 **(Jpn)**
[Sanitizing effect of volatile isolates from the intact common Myrtle (Myrtus communis L.) plant in an interior location] Tsybulia NV, et al. **Biull Eksp Biol Med** 1996 May; 121(5):597–600 **(Rus)**
[Probiotics and their future] Pardio Sedas VT, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):6–10 (44 ref.) (Eng. Abstr.) **(Spa)**

CHEMISTRY

Metal-microbe interactions: contemporary approaches. Beveridge TJ, et al. **Adv Microb Physiol** 1997;38:177–243 (220 ref.)
Enzymatic treatment to eliminate the extracellular ATP for improving the detectability of bacterial intracellular ATP. Sakakibara T, et al. **Anal Biochem** 1997 Aug 1;250(2):157–61
Characterization of lipid fatty acids in whole-cell microorganisms using in situ supercritical fluid derivatization/extraction and gas chromatography/mass spectrometry. Gharaibeh AA, et al. **Anal Chem** 1996 Sep 1;68(17):2805–10
Theoretical aspects of antibiotic diffusion into microbial biofilms. Stewart PS. **Antimicrob Agents Chemother** 1996 Nov;40(11):2517–22
Lipid biomarkers for bacterial ecosystems: studies of cultured organisms, hydrothermal environments and ancient sediments. Summons RE, et al. **Ciba Found Symp** 1996; 202:174–93; discussion 193–4 (33 ref.)
Assignment of the ligand geometry and redox potentials of the trihaem ferricytochrome c3 from Desulfuromonas acetoxidans. Turner DL, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):474–81
Molecular biology of S-layers. Bahl H, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):47–98 (197 ref.)
Biochemistry of S-layers. Messner P, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):25–46 (92 ref.)
Activation of protein tyrosine kinase: a possible requirement for fixed-bacteria and lipopolysaccharide-induced increase in human natural killer cell activity. Puente J, et al. **Int J Clin Pharmacol Ther** 1996 May;34(5):212–8
Analysis of the PHA granule-associated proteins GA20 and GA11 in Methylobacterium extorquens and Methylobacterium rhodesianum. Föllner CG, et al. **J Basic Microbiol** 1997;37(1):11–21
Photobiology of microorganisms: how photosensors catch a photon to initialize signalling. Hellingwerf KJ, et al. **Mol Microbiol** 1996 Aug;21(4):683–93 (76 ref.)
Atomic structure and specificity of bacterial periplasmic receptors for active transport and chemotaxis: variation of common themes. Quiocho FA, et al. **Mol Microbiol** 1996 Apr;20(1):17–25 (40 ref.)
Parallel-up structure evidences the molecular directionality during biosynthesis of bacterial cellulose. Koyama M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9091–5
Detection of bacterial DNA polymerase chain reaction products by matrix-assisted laser desorption/ionization mass spectrometry. Hurst GB, et al. **Rapid Commun Mass Spectrom** 1996;10(3):377–82
Rapid identification of bacteria by direct matrix-assisted laser desorption/ionization mass spectrometric analysis of whole cells. Krishnamurthy T, et al. **Rapid Commun Mass Spectrom** 1996;10(15):1992–6
[Protective features of pore-forming proteins of pathogenic bacteria] Supotnitskiĭ MB. **Vestn Ross Akad Med Nauk** 1996;(8):18–22 (34 ref.) (Eng. Abstr.) **(Rus)**
[The characteristics of the hydrophobic properties of bacteria when interacting with blood serum] Brudastov IuA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):73–7 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Bacterial typing: storing and processing of stabilized reference bacteria for polymerase chain reaction without preparing DNA--an example of an automatable procedure. Rogers C, et al. **Anal Biochem** 1997 May 1;247(2):223–7
Non-cultivable microorganisms from symbiotic associations of insects and other hosts. Baumann P, et al. **Antonie Van Leeuwenhoek** 1997 Jul;72(1):39–48 (68 ref.)
Subcuticular bacteria from the brittle star Ophiactis balli (Echinodermata: Ophiuroidea) represent a new lineage of extracellular marine symbionts in the alpha subdivision of the class Proteobacteria. Burnett WJ, et al. **Appl Environ Microbiol** 1997 May;63(5):1721–4
Seasonal distributions of dominant 16S rRNA-defined populations in a hot spring microbial mat examined by denaturing gradient gel electrophoresis. Ferris MJ, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1375–81
Phylogenetic analysis and in situ identification of bacteria in activated sludge. Snaidr J, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2884–96
Bacterial diversity of a Carolina bay as determined by 16S rRNA gene analysis: confirmation of novel taxa. Wise MG, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1505–14
Application of autolysin and deoxyribonuclease profiles generated by renaturing SDS-PAGE in the comparison of selected Proteobacteria. Charnock C. **Arch Microbiol** 1997 Jun;167(6):356–62
Methylosulfonomonas methylovora gen. nov., sp. nov., and Marinosulfonomonas methylotropha gen. nov., sp. nov.: novel methylotrophs able to grow on methanesulfonic acid. Holmes AJ, et al. **Arch Microbiol** 1997 Jan;167(1):46–53
Selective enumeration of aromatic and aliphatic hydrocarbon degrading bacteria by a most-probable-number procedure. Wrenn BA, et al. **Can J Microbiol** 1996 Mar;42(3):252–8
Does assessment of microbial composition of plaque/saliva allow for diagnosis of disease activity of individuals? Bowden GH. **Community Dent Oral Epidemiol** 1997 Feb; 25(1):76–81 (61 ref.)
Trends in dental health among Icelandic urban children. Bjarnason S, et al. **Eur J Oral Sci** 1997 Jun;105(3):189–95
Detection and in situ identification of representatives of a widely distributed new bacterial phylum. Ludwig W, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):181–90
Phylogenetic characterization of bacteria in the subsurface microbial culture collection. Balkwill DL, et al. **FEMS Microbiol Rev** 1997 Jul;20(3–4):201–16 (68 ref.)
Phylogeny and potential transmission routes of midgut-associated endosymbionts of tsetse (Diptera:Glossinidae). Aksoy S, et al. **Insect Mol Biol** 1997 May;6(2):183–90
Phylogenetic relationships and uncertain taxonomy of Pedomicrobium species. Cox TL, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):377–80
List of Bacterial Names with Standing in Nomenclature: a folder available on the Internet. Euzéby JP. **Int J Syst Bacteriol** 1997 Apr;47(2):590–2
Bacterial contaminants in liquid packaging boards: assessment of potential for food spoilage. Pirttijärvi TS, et al. **J Appl Bacteriol** 1996 Oct;81(4):445–58
Note: cyclohexenoesculetin-beta-D-glucoside: a new substrate for the detection of bacterial beta-D-glucosidase. James AL, et al. **J Appl Microbiol** 1997 Apr;82(4):532–6
Molecular systematic studies of eubacteria, using sigma70-type sigma factors of group 1 and group 2. Gruber TM, et al. **J Bacteriol** 1997 Mar;179(5):1734–47
Sequencing of heat shock protein 70 (DnaK) homologs from Deinococcus proteolyticus and Thermomicrobium roseum

and their integration in a protein-based phylogeny of prokaryotes. Gupta RS, et al. **J Bacteriol** 1997 Jan; 179(2):345–57

Serial surveillance cultures of skin and catheter hub specimens from critically ill patients with central venous catheters: molecular epidemiology of infection and implications for clinical management and research. Atela I, et al. **J Clin Microbiol** 1997 Jul;35(7):1784–90

Phylogenetic placement and characterization of a new alpha-2 proteobacterium isolated from a patient with sepsis. Blomqvist G, et al. **J Clin Microbiol** 1997 Aug; 35(8):1988–95

Evaluation of an extended blood culture protocol to isolate fastidious organisms from patients with AIDS. Dougherty MJ, et al. **J Clin Microbiol** 1996 Oct;34(10):2444–7

PCR reaction and dot-blot hybridization to monitor the distribution of oral pathogens within plaque samples of periodontally healthy individuals. Conrads G, et al. **J Periodontol** 1996 Oct;67(10):994–1003

DNA fingerprinting techniques for microorganisms. A proposal for classification and nomenclature. Vaneechoutte M. **Mol Biotechnol** 1996 Oct;6(2):115–42 (145 ref.)

Taxonomy and identification of periodontopathogenic bacteria and related species. Thaller MC, et al. **New Microbiol** 1997 Apr;20(2):161–76 (115 ref.)

Rapid identification of bacteria by direct matrix-assisted laser desorption/ionization mass spectrometric analysis of whole cells. Krishnamurthy T, et al. **Rapid Commun Mass Spectrom** 1996;10(15):1992–6

Evolution of carbohydrate metabolic pathways. Romano AH, et al. **Res Microbiol** 1996 Jul–Sep;147(6–7):448–55 (43 ref.)

Methanococcus genome [letter] Golomb SW. **Science** 1996 Nov 8;274(5289):902; discussion 902–3

Microbiology's scarred revolutionary [news] [published erratum appears in Science 1997 Jul 25;277(5325):463] Morell V. **Science** 1997 May 2;276(5313):699–702

The 1996 list. Proposed new bacterial taxa and proposed changes of bacterial names published during 1996 and considered to be of interest to medical or veterinary bacteriology. An informational note. Frederiksen W, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):17–22

The 1995 list. Proposed new bacterial taxa and proposed changes of bacterial names published during 1995 and considered to be of interest to medical or veterinary bacteriology. An informational note. Frederiksen W, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):9–15

Proposed new bacterial taxa and proposed changes of bacterial names published during 1994 and considered to be of interest to medical or veterinary bacteriology. Frederiksen W, et al. **Zentralbl Bakteriol** 1996 Mar; 283(3):258–65

Curie-point pyrolysis mass spectrometry as a tool in clinical microbiology. Goodfellow M, et al. **Zentralbl Bakteriol** 1997 Jan;285(2):133–56 (159 ref.)

Pyrolysis mass spectrometry: data processing in classification studies. Magee JT. **Zentralbl Bakteriol** 1997 Jan; 285(2):182–94

[Use of molecular genetics for identification and differentiation of various strains and species of bacteria] Rychlík I, et al. **Vet Med (Praha)** 1997 Apr;42(4):111–23 (153 ref.) (Eng. Abstr.) **(Cze)**

[Species diversity of deep water microorganisms in Lake Baikal, detected by 16S rRNA sequences] Bel'kova NL, et al. **Dokl Akad Nauk** 1996 Jun;348(5):692–5 **(Rus)**

[Determination of the taxonomic position of bacteria from Lake Baikal using sequence analysis of 16S rRNA fragments] Belikov SI, et al. **Mikrobiologiia** 1996 Nov–Dec; 65(6):855–64 (Eng. Abstr.) **(Rus)**

[Comparative evaluation of methods of intracellular ATP extraction from different types of microorganisms for bioluminescent determinationof microbial cells] Romanova NA, et al. **Prikl Biokhim Mikrobiol** 1997 May–Jun; 33(3):344–9 (Eng. Abstr.) **(Rus)**

CYTOLOGY

What size should a bacterium be? A question of scale. Koch AL. **Annu Rev Microbiol** 1996;50:317–48 (111 ref.)

Bacterial plasmolysis as a physical indicator of viability. Korber DR, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):3939–47

Polarized light scattering for rapid observation of bacterial size changes. Van de Merwe WP, et al. **Biophys J** 1997 Jul;73(1):500–6

A novel fluorochrome for the microscopic observation of microbial morphology in wet mounts. Chan EC, et al. **Can J Microbiol** 1996 Aug;42(8):875–9

Bacterial cell division: the cycle of the ring. Rothfield LI, et al. **Cell** 1997 Mar 7;88(5):581–4 (20 ref.)

Fluorescent brighteners: novel stains for the flow cytometric analysis of microorganisms. Davey HM, et al. **Cytometry** 1997 Aug 1;28(4):311–5

The role of physicochemical properties of biomaterials and bacterial cell adhesion in vitro. Kitano T, et al. **Int J Artif Organs** 1996 Jun;19(6):353–8

Adhesion to silicone rubber of yeasts and bacteria isolated from voice prostheses: influence of salivary conditioning films. Busscher HJ, et al. **J Biomed Mater Res** 1997 Feb; 34(2):201–9

Structure, function and controls in microbial division. Vicente M, et al. **Mol Microbiol** 1996 Apr;20(1):1–7

Symmetries in bacterial motility. Berg HC. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14225–8

In defense of nannobacteria [letter; comment] [see comments] Folk RL. **Science** 1996 Nov 22;274(5291):1288. Comment on: Science 1996 Aug 16;273(5277):924–30. Comment on: Science 1996 Sep 20;273(5282):1639; discussion 1640. Comment on: Science 1996 Sep 20;273(5282):1639–40; discussion 1640. Comment in: Science 1997 Jun 20;276(5320):1776–7; discussion 1777.

Nannobacteria: size limits and evidence [letter; comment] Maniloff J. **Science** 1997 Jun 20;276(5320):1776; discussion 1777. Comment on: Science 1996 Aug 16;273(5277):924–30.

Nannobacteria: size limits and evidence [letter] Nealson KH. **Science** 1997 Jun 20;276(5320):1776; discussion 1777

Nannobacteria: size limits and evidence [letter; comment] Psenner R, et al. **Science** 1997 Jun 20;276(5320):1776–7; discussion 1777. Comment on: Science 1996 Nov 22;274(5291):1288.

Illuminating the force: bacterial mitosis? Harry EJ. **Trends Microbiol** 1997 Aug;5(8):295–7 (18 ref.)

[Cell differentiation and its regulation during genetic transformation in bacteria] Prozorov AA. **Mikrobiologiia** 1997 Jan–Feb;66(1):5–13 (54 ref.) (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Microbiology of chronic maxillary sinusitis in adults: isolated aerobic and anaerobic bacteria and their susceptibility to twenty antibiotics. Hartog B, et al. **Acta Otolaryngol (Stockh)** 1995 Sep;115(5):672–7

Susceptibility of bacteria isolated from non-parenteral preparations applied in paediatric hospitals to antibiotics. Zembrzuska-Sadkowska E, et al. **Acta Pol Pharm** 1995 Jan–Feb;52(1):77–85

Emerging trends in antimicrobial resistance: a laboratory perspective. Sahm DF. **Adv Exp Med Biol** 1995;390:141–54 (46 ref.)

Effect of saponins on the growth and activity of rhizosphere bacteria. Zablotowicz RM, et al. **Adv Exp Med Biol** 1996; 405:83–95

Mechanisms of bacterial resistance to antimicrobial agents. McManus MC. **Am J Health Syst Pharm** 1997 Jun 15; 54(12):1420–33; quiz 1444–6 (131 ref.)

Comparative sensitivity of 13 species of pathogenic bacteria to seven chemical germicides. Sagripanti JL, et al. **Am J Infect Control** 1997 Aug;25(4):335–9

The effects of panresistant bacteria in cystic fibrosis patients on lung transplant outcome. Aris RM, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1699–704

Antimicrobial properties of bupivacaine [letter; comment] Meyer RJ. **Anaesth Intensive Care** 1997 Apr;25(2):200. Comment on: Anaesth Intensive Care 1996 Oct;24(5):599–600.

Bacterial heavy metal resistance: new surprises. Silver S, et al. **Annu Rev Microbiol** 1996;50:753–89 (132 ref.)

The search for antimicrobial agents effective against bacteria resistant to multiple antibiotics. Chopra I, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):497–503 (72 ref.)

Enhancement of bismuth antibacterial activity with lipophilic thiol chelators. Domenico P, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1697–703

Differential induction of pro- and anti-inflammatory cytokines in whole blood by bacteria: effects of antibiotic treatment. Frieling JT, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1439–43

Antibacterial activity in bovine lactoferrin-derived peptides. Hoek KS, et al. **Antimicrob Agents Chemother** 1997 Jan; 41(1):54–9

In vitro activity and spectrum of LY333328, a novel glycopeptide derivative. Jones RN, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):488–93

In vitro antimicrobial activities and spectra of U-100592 and U-100766, two novel fluorinated oxazolidinones. Jones RN, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):720–6

The population dynamics of antimicrobial chemotherapy. Lipsitch M, et al. **Antimicrob Agents Chemother** 1997 Feb; 41(2):363–73

Antimicrobial action of rabbit leukocyte CAP18(106–137). Mason DJ, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):624–9

In vitro and in vivo antibacterial activities of ER-35786, a new antipseudomonal carbapenem. Ohba F, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):298–307

Protegrin-1: a broad-spectrum, rapidly microbicidal peptide with in vivo activity. Steinberg DA, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1738–42

Detection of erythromycin-resistant determinants by PCR. Sutcliffe J, et al. **Antimicrob Agents Chemother** 1996 Nov; 40(11):2562–6

Comparative evaluation of the inhibitory activities of the novel penicillanic acid sulfone Ro 48–1220 against beta-lactamases that belong to groups 1, 2b, and 2be. Tzouvelekis LS, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):475–7

Comparison of three different in vitro methods of detecting synergy: time-kill, checkerboard, and E test. White RL, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1914–8

Protamine-induced permeabilization of cell envelopes of gram-positive and gram-negative bacteria. Johansen C, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1155–9

Bacterial viability and antibiotic susceptibility testing with SYTOX green nucleic acid stain. Roth BL, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2421–31

Synthesis and antimicrobial activity of electron rich olefin derived cyclic ureas. Cetinkaya B, et al. **Arzneimittelforschung** 1996 Dec;46(12):1154–8

Synthesis of ethanone derived from 2-benzoxazolinones and their antimicrobial activities. Erol DD, et al. **Arzneimittelforschung** 1996 Feb;46(2):205–6

Antibacterial activity of benzydamine and antibiotic-benzydamine combinations against multifold resistant clinical isolates. Fanaki NH, et al. **Arzneimittelforschung** 1996 Mar;46(3):320–3

In vitro studies of the loss of antibacterial activity of oxytetracycline in presence of Ca(II) or Mg(II) ions. Naz S, et al. **Arzneimittelforschung** 1996 Jul;46(7):701–4

1,3-Dimethylpyrimidoheterocycles as antibacterial agents. Zoorob HH, et al. **Arzneimittelforschung** 1997 Aug; 47(8):958–62

Effects of the anti-bacterial peptide cecropin B and its analogs, cecropins B-1 and B-2, on liposomes, bacteria, and cancer cells. Chen HM, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):171–9

Adaptation mechanisms of microorganisms to the toxic effects of organic solvents on membranes. Weber FJ, et al. **Biochim Biophys Acta** 1996 Oct 29;1286(3):225–45 (214 ref.)

Effects of different surfactant preparations on bacterial growth in vitro. Neumeister B, et al. **Biol Neonate** 1996; 70(2):128–34

Structure-antibacterial activity and cytotoxicity relationships of thiazolo and thiazetoquinolone derivatives. Ozaki M, et al. **Biol Pharm Bull** 1996 Nov;19(11):1457–62

Quantitative analysis of a presence/absence microbiological assay: the hard surface carrier test of disinfectant efficacy. Hamilton MA, et al. **Biometrics** 1996 Sep;52(3):1112–20

Synthesis and evaluation of some new substituted benzofuran derivatives as potentially active antimicrobial agents. Abdel-Rahman AH, et al. **Boll Chim Farm** 1997 Mar; 136(3):262–5

Studies on arylfuran derivatives—Part V. Synthesis and antibacterial properties of 7H,6-[5-(4-nitrophenyl)-2-furyl]-1,2,4-triazolo [3,4-b]-1,3,4-thiadiazines. Holla BS, et al. **Boll Chim Farm** 1996 Jul–Aug;135(7):447–51

Behaviour of hexahydrobenzodipyrazolones towards chloroacetylation, aminoalkylation, Grignard reagent and their antimicrobial activity. Metwally MA, et al. **Boll Chim Farm** 1995 Dec;134(11):616–9

Does tea tree oil have a place in the topical treatment of burns? Faoagali J, et al. **Burns** 1997 Jun;23(4):349–51

Do the opioids have an antibacterial effect? [letter] Rota S, et al. **Can J Anaesth** 1997 Jun;44(6):679–80

Effect of sucrose intake on numbers of bacteria in plaque expressing extracellular carbohydrate metabolizing enzymes. Mikkelsen L. **Caries Res** 1996;30(1):65–70

Microorganisms as a tool of studying copper metal ions—induced changes in electrophysical cell properties. Ivanov A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Sep; 42(6):825–31

Molecular evolution of bacterial beta-lactam resistance. Knox JR, et al. **Chem Biol** 1996 Nov;3(11):937–47

Bacterial resistance to vancomycin: five genes and one missing hydrogen bond tell the story. Walsh CT, et al. **Chem Biol** 1996 Jan;3(1):21–8 (32 ref.)

In vitro and in vivo antibacterial activities of clarithromycin. Ono T, et al. **Chemotherapy** 1996 May–Jun;42(3):159–69

Susceptibility of clinical isolates to expanded-spectrum beta-lactams alone and in the presence of beta-lactamase inhibitors. Qadri SM, et al. **Chemotherapy** 1996 Sep–Oct; 42(5):334–42

Antagonism of teicoplanin and vancomycin activity by chocolatized Mueller-Hinton agar. Traub WH, et al. **Chemotherapy** 1996 Sep–Oct;42(5):343–7

The within-host population dynamics of antibacterial chemotherapy: conditions for the evolution of resistance. Lipsitch M, et al. **Ciba Found Symp** 1997;207:112–27; discussion 127–30 (27 ref.)

Monitoring and management of bacterial resistance to antimicrobial agents: a World Health Organization symposium. Geneva, Switzerland, 29 November–2 December, 1995. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S1–176

Prophylaxis with amoxicillin or sulfisoxazole for otitis media: effect on the recovery of penicillin-resistant bacteria from children. Brook I, et al. **Clin Infect Dis** 1996 Jan;22(1):143–5

Reports on surveillance of antimicrobial resistance in individual countries. Rahal K, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S169–75

Surveillance of antimicrobial resistance: the WHONET program. Stelling JM, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S157–68

beta-Lactamase inhibition and in vitro activity of sulbactam and sulbactam/cefoperazone. Williams JD. **Clin Infect Dis** 1997 Mar;24(3):494–7 (7 ref.)

Diabetic foot infections. Bacteriology and activity of 10 oral antimicrobial agents against bacteria isolated from consecutive cases. Goldstein EJ, et al. **Diabetes Care** 1996 Jun;19(6):638–41

In vitro activity of quinupristin/dalfopristin (RP 59500) against a large collection of infrequently isolated or tested species. Barrett MS, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):147–9

In vitro antimicrobial activity of RU-59863, a C-7 catechol substituted cephalosporin. Erwin ME, et al.

Diagn Microbiol Infect Dis 1997 Jun;28(2):93–100

Clinical perspectives on the management of community-acquired pneumonia. Garau J. **Diagn Microbiol Infect Dis** 1996 Aug;25(4):205–11

Results of the Alexander Project: a continuing, multicenter study of the antimicrobial susceptibility of community-acquired lower respiratory tract bacterial pathogens. Grüneberg RN, et al. **Diagn Microbiol Infect Dis** 1996 Aug;25(4):169–81

Highlights of the French Antimicrobial Resistance Surveillance Project. French Study Group. Péan Y, et al. **Diagn Microbiol Infect Dis** 1996 Aug;25(4):191–4

Evaluation of the in vitro activity of cefepime compared to other broad-spectrum cephalosporins against clinical isolates from eighteen Brazilian hospitals by using the Etest. Sader HS, et al. **Diagn Microbiol Infect Dis** 1997 Jun; 28(2):87–92

A multicenter study of the antimicrobial susceptibility of community-acquired lower respiratory tract pathogens in the United States, 1992–1994. The Alexander Project. Washington JA. **Diagn Microbiol Infect Dis** 1996 Aug; 25(4):183–90

Lactulose and combination therapy of hepatic encephalopathy: the role of the intestinal microflora. Weber FL Jr. **Dig Dis** 1996;14 Suppl 1:53–63 (71 ref.)

Optimum treatment of intracellular infection. Maurin M, et al. **Drugs** 1996 Jul;52(1):45–59 (127 ref.)

Cefuroxime axetil. A review of its antibacterial activity, pharmacokinetic properties and therapeutic efficacy. Perry CM, et al. **Drugs** 1996 Jul;52(1):125–58 (178 ref.)

Epidemiological aspects of antimicrobial drug resistance. Kariuki SM, et al. **East Afr Med J** 1997 Mar;74(3):124–8 (50 ref.)

Recent trends on bacterial resistance to antibiotics. Urassa W, et al. **East Afr Med J** 1997 Mar;74(3):129–33 (43 ref.)

Additivity in microbial toxicity of nonuniform mixtures of organic chemicals. Nirmalakhandan N, et al. **Ecotoxicol Environ Saf** 1997 Jun;37(1):97–102

In vitro activity and selection of disk content for disk diffusion susceptibility tests with trovafloxacin. Fuchs PC, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug; 15(8):678–82

In vitro activity of trovafloxacin in combination with ceftazidime, meropenem, and amikacin. Milatovic D, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug;15(8):688–93

In vitro activity of trovafloxacin versus ciprofloxacin against clinical isolates. Verbist L, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug;15(8):683–5

Surveillance of infections in hospital: agents and antibiotic-resistance. Riccardi F, et al. **Eur J Epidemiol** 1997 Feb;13(2):217–21

Effect of titanium on selected oral bacterial species in vitro. Leonhardt A, et al. **Eur J Oral Sci** 1995 Dec;103(6):382–7

Plaque bacteria counts and vitality during chlorhexidine, meridol and listerine mouthrinses. Netuschil L, et al. **Eur J Oral Sci** 1995 Dec;103(6):355–61

Effects of chlorhexidine on the bacterial colonization and degradation of dentin and completely demineralized dentin in situ. van Strijp AJ, et al. **Eur J Oral Sci** 1997 Feb; 105(1):27–35

Studies on arylfuran derivatives–Part VI. Synthesis, characterization and antibacterial activities of some 6-(5-aryl-2-furyl)-1,2,4-triazolo [3,4-b]-1,3,4-thiadiazoles and 6-(5-nitro-2-furyl)-1,2,4-triazolo[3,4-b]-1,3,4-thiadiazoles. Holla BS, et al. **Farmaco** 1996 Dec; 51(12):785–92

Synthesis and antimicrobial activity of some 2,5-disubstituted 1,3,4,-thiadiazole derivatives. Mamolo MG, et al. **Farmaco** 1996 Jan;51(1):71–4

Synthesis and antimicrobial activity of some 1,4-disubstituted thiosemicarbazide and 2,5-disubstituted 1,3,4-thiadiazole derivatives. Rollas S, et al. **Farmaco** 1996 Dec;51(12):811–4

Synthesis and antimicrobial activities of 4-purpuromycin derivatives. Trani A, et al. **Farmaco** 1996 Jul;51(7):503–12

Synthesis and antimicrobial activity of N-(1,2-benzisothiazol-3-yl)amidines. Vicini P, et al. **Farmaco** 1997 Jan;52(1):21–4

Microbiological activity of whole and fractionated crude extracts of tea (Camellia sinensis), and of tea components. Yam TS, et al. **FEMS Microbiol Lett** 1997 Jul 1; 152(1):169–74

Tetracycline resistance determinants: mechanisms of action, regulation of expression, genetic mobility, and distribution. Roberts MC. **FEMS Microbiol Rev** 1996 Oct;19(1):1–24 (131 ref.)

Bactericidal properties of hydrogen peroxide and copper or iron-containing complex ions in relation to leukocyte function. Elzanowska H, et al. **Free Radic Biol Med** 1995 Mar;18(3):437–49

Examination of coumarins, flavonoids and polysaccharopeptide for antibacterial activity. Ng TB, et al. **Gen Pharmacol** 1996 Oct;27(7):1237–40

Bacterial overgrowth during treatment with omeprazole compared with cimetidine: a prospective randomised double blind study. Thorens J, et al. **Gut** 1996 Jul;39(1):54–9

Antibiogram study over bacterial isolates from cases of bacteraemias. Nema S, et al. **Indian J Med Sci** 1996 Sep; 50(9):325–9

A statewide surveillance system for antibiotic-resistant bacteria: the New Jersey Department of Health [letter; comment] Paul SM, et al. **Infect Control Hosp Epidemiol** 1996 Jun;17(6):345. Comment on: Infect Control Hosp Epidemiol 1995 Nov;16(11):623–6. Comment on: Infect Control Hosp Epidemiol 1995 Nov;16(11):638–41.

Susceptibility of antibiotic-susceptible and antibiotic-resistant hospital bacteria to disinfectants. Rutala WA, et al. **Infect Control Hosp Epidemiol** 1997 Jun; 18(6):417–21

Comparative effects of cefadroxil and phenoxymethylpenicillin on the normal oropharyngeal and intestinal microflora. Adamsson I, et al. **Infection** 1997 May-Jun;25(3):154–8

Antibacterial activity of Lactobacillus plantarum UG1 isolated from dry sausage: characterization, production and bactericidal action of plantaricin UG1. Enan G, et al. **Int J Food Microbiol** 1996 Jul;30(3):189–215

Antibacterial activity of selected fatty acids and essential oils against six meat spoilage organisms. Ouattara B, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):155–62

Novel C-2 substituted carbapenem derivatives. Part I. Synthesis and biological activity of non-aromatic heterocyclic derivatives. Burton G, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1258–65

Synthesis and biological evaluation of new fragments from kirromycin antibiotic. Tavecchia P, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1249–57

In-vitro studies of two 5-nitroimidazole derivatives. Castelli M, et al. **J Antimicrob Chemother** 1997 Jul;40(1):19–25

Bacterial biofilms: resistance to antimicrobial agents. Gander S. **J Antimicrob Chemother** 1996 Jun;37(6):1047–50 (33 ref.)

In-vitro pharmacodynamic studies of piperacillin/tazobactam with gentamicin and ciprofloxacin. Gould IM, et al. **J Antimicrob Chemother** 1997 Jan; 39(1):53–61

Azithromycin--review of key chemical, pharmacokinetic and microbiological features. Lode H, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:1–8 (41 ref.)

Profile and trend of antimicrobial resistance of non-opportunistic bacterial pathogens isolated from patients with HIV infection [letter] Manfredi R, et al. **J Antimicrob Chemother** 1996 Nov;38(5):910–3

Does the use of antimicrobial agents in veterinary medicine and animal husbandry select antibiotic-resistant bacteria that infect man and compromise antimicrobial chemotherapy? [see comments] Piddock LJ. **J Antimicrob Chemother** 1996 Jul;38(1):1–3 (23 ref.). Comment in: J Antimicrob Chemother 1997 Feb;39(2):285–6. Comment in: J Antimicrob Chemother 1997 Mar;39(3):435.

Postantibiotic effect and host-bacteria interactions. Shibl AM, et al. **J Antimicrob Chemother** 1995 Dec;36(6):885–7 (23 ref.)

Note: microbial resistance of wool fabric treated with bis-Quats compounds. Infante MR, et al. **J Appl Bacteriol** 1996 Aug;81(2):212–6

Effect of two levels of transgalactosylated oligosaccharide intake in rats associated with human faecal microflora on bacterial glycolytic activity, end-products of fermentation and bacterial steroid transformation. Kikuchi H, et al. **J Appl Bacteriol** 1996 Apr;80(4):439–46

Flow cytometry for rapid assessment of viability after exposure to a quaternary ammonium compound. Langsrud S, et al. **J Appl Bacteriol** 1996 Oct;81(4):411–8

Isolation and characterization of pleurocidin, an antimicrobial peptide in the skin secretions of winter flounder. Cole AM, et al. **J Biol Chem** 1997 May 2;272(18):12008–13

A repertoire of novel antibacterial diastereomeric peptides with selective cytolytic activity. Oren Z, et al. **J Biol Chem** 1997 Jun 6;272(23):14643–9

A study of the influence of biphase calcium phosphate ceramics on bacterial strains: in vitro approach. Opalchenova G, et al. **J Biomed Mater Res** 1996 Jun; 31(2):219–26

Interactions among antibiotics, bacteria and the human immune system: the clinical relevance of in vitro testing. Bergogne-Berezin E. **J Chemother** 1997 May;9 Suppl 1:109–15 (26 ref.)

In vitro activity of cefpirome versus five other cephalosporins against clinical isolates. Constantoulaki S, et al. **J Chemother** 1995 Nov;7 Suppl 4:52–3

In vivo bacterial regrowth-inhibition effect of cefbuperazone and amikacin in puerperal uterine cavity. Izumi K, et al. **J Chemother** 1995 Nov;7 Suppl 4:173–6

Susceptibilities to co-trimoxazole of pathogens isolated from blood and stool specimens in Abidjan, Ivory Coast, 1994 to 1996 [letter] Anglaret X, et al. **J Clin Microbiol** 1997 Jul;35(7):1915

Effects of sublethal exposure to an antiseptic mouthrinse on representative plaque bacteria. Fine DH, et al. **J Clin Periodontol** 1996 May;23(5):444–51

The effect of cyclosporin-A on the oral microflora at gingival sulcus of the ferret. Fischer RG, et al. **J Clin Periodontol** 1996 Sep;23(9):853–60

Studies on the cytotoxicity, antimicrobial and DNA-binding activities of plants used by the Ese'ejas. Desmarchelier C, et al. **J Ethnopharmacol** 1996 Feb;50(2):91–6

Flavones with antibacterial activity against cariogenic bacteria. Sato M, et al. **J Ethnopharmacol** 1996 Nov; 54(2–3):171–6

Antimicrobial activities of southern Nepalese medicinal plants. Taylor RS, et al. **J Ethnopharmacol** 1996 Feb; 50(2):97–102

Chemometric methodologies in a quantitative structure-activity relationship study: the antibacterial activity of 6-aminoquinolones. Cecchetti V, et al. **J Med Chem** 1997 May 23;40(11):1698–706

Development of antibiotic resistance: a vet's tale. Wray C. **J Med Microbiol** 1997 Jan;46(1):26–33 (228 ref.)

Compounds from Syzygium aromaticum possessing growth inhibitory activity against oral pathogens. Cai L, et al. **J Nat Prod** 1996 Oct;59(10):987–90

Antibacterial neoclerodane diterpenoids from Ajuga lupulina. Chen H, et al. **J Nat Prod** 1996 Jul;59(7):668–70

Metabolites from an Antarctic sponge-associated bacterium, Pseudomonas aeruginosa. Jayatilake GS, et al. **J Nat Prod** 1996 Mar;59(3):293–6

Mechanism for synergism between sulphonamides and trimethoprim clarified. Richards RM, et al. **J Pharm Pharmacol** 1996 Sep;48(9):981–4

Bactericidal eradication from carious lesions of prepared abutments by an antibacterial temporary cement. Hori R, et al. **J Prosthet Dent** 1997 Apr;77(4):348–52

Minimum inhibitory concentrations of selected antimicrobial agents against bacteria isolated from 1–14-day-old broiler chicks. Klein LK, et al. **J Vet Diagn Invest** 1996 Oct; 8(4):494–5

Correlation of susceptibility and resistance of twenty-five bacterial strains by analysis of MIC database of cephalosporins and oxacephalosporins. Kodama Y, et al. **Jpn J Antibiot** 1997 Mar;50(3):246–55

Widespread occurrence of integrons causing multiple antibiotic resistance in bacteria [letter] Jones ME, et al. **Lancet** 1997 Jun 14;349(9067):1742–3

Lipoteichoic acid as a target for antimicrobial action. Canepari P, et al. **Microb Drug Resist** 1996 Spring;2(1):85–9 (20 ref.)

Quinupristin/dalfopristin: spectrum of activity, pharmacokinetics, and initial clinical experience. Low DE. **Microb Drug Resist** 1995 Fall;1(3):223–34 (74 ref.)

Survey of antimicrobial resistance in bacterial isolates from diseased cattle in France. Martel JL, et al. **Microb Drug Resist** 1995 Fall;1(3):273–83

Cellular signals regulating antibiotic sensitivities of bacteria. Matsuhashi M, et al. **Microb Drug Resist** 1996 Spring; 2(1):91–3

Effects of chronic isoproterenol treatment or submandibular and sublingual ablation on microflora of mouse tooth surfaces. Maeda N, et al. **Microbiol Immunol** 1997; 41(7):513–7

Influence of the herbicide bentazon on soil microbial community. Allievi L, et al. **Microbiol Res** 1996 Mar; 151(1):105–11

Ultrastructural localization of acid phosphatase in some bacteria, after treatment with Lubrol W1. Cherepova N, et al. **Microbios** 1996;88(357):199–204

Interaction of synthetic pyrethroids with micro-organisms: a review. Johri AK, et al. **Microbios** 1997; 89(360–361):151–6 (35 ref.)

Antibiotic activity of strains of the genus Arthrinium on bacteria and yeasts. Larrondo J, et al. **Microbios** 1997; 89(360–361):163–70

Antibacterial and antifungal activity of aromatic constituents of essential oils. Pattnaik S, et al. **Microbios** 1997; 89(358):39–46

Recent advances in the construction of bacterial genotoxicity assays. Josephy PD, et al. **Mutat Res** 1997 Mar;386(1):1–23 (172 ref.)

Susceptibility patterns of bacterial isolates from intensive care and haematology/oncology patients in New Zealand. Morris AJ, et al. **N Z Med J** 1997 May 23;110(1044):187–9

Detection of inhibitors in milk by microbial tests. A review. Suhren G, et al. **Nahrung** 1996 Feb;40(1):1–7 (42 ref.)

The glycopeptide story---how to kill the deadly 'superbugs'. Williams DH. **Nat Prod Rep** 1996 Dec;13(6):469–77 (32 ref.)

Antibiotic sensitivity of recent clinical isolates from patients with ocular infections. Ooishi M, et al. **Ophthalmologica** 1997;211 Suppl 1:15–24

Inhibition of pure cultures of oral bacteria by root canal filling materials. Tchaou WS, et al. **Pediatr Dent** 1996 Nov-Dec;18(7):444–9

A novel synthesis of 1,2,4-triazolo[1,5-a]isoindolinetrione, 1,2,4-triazolo[1,5-a]pyrimidine and 1,2,4-triazolo[2,3-a]quinazolinedione derivatives and their antibacterial activity. Hassan AA, et al. **Pharmazie** 1997 Jan;52(1):23–8

Content of the essential oil of the carrot and its antibacterial activity. Kilibarda V, et al. **Pharmazie** 1996 Oct; 51(10):777–8

Antimicrobial activity of pseudohalogeno(N-salicylidene-alpha-alaninato)cuprates(II). Sokolík J, et al. **Pharmazie** 1997 May;52(5):408–9

Antibacterial and antifungal compounds from Kigelia pinnata [letter] Binutu OA, et al. **Planta Med** 1996 Aug;62(4):352–3

Chemical and biological studies on two Helichrysum species of Greek origin [letter] Chinou IB, et al. **Planta Med** 1996 Aug;62(4):377–9

Cytotoxic and antibacterial activities of sesquiterpene lactones isolated from Tanacetum praeteritum subsp. praeteritum. Gören N, et al. **Planta Med** 1996 Oct; 62(5):419–22

Incidence of bacterial colonization in the throat and in urines at paediatric age with evaluation of sensitivity to common antibiotics. Catania S, et al. **Riv Eur Sci Med Farmacol** 1996 Jul-Aug;18(4):169–72

Modification of the intestinal microflora using probiotics and prebiotics. Fuller R, et al. **Scand J Gastroenterol Suppl** 1997; 222:28–31

A new method for in vivo evaluation of antimicrobial agents by translocation of complex dense populations of cutaneous bacteria. Leyden JJ, et al. **Skin Pharmacol** 1996;9(1):60–8

21-Aminosteroid U-74389G (lazaroid) inhibits bacterial translocation after small bowel transplantation in rats. de Oca J, et al. **Transplant Proc** 1997 May;29(3):1803

Oxazolidinones: new antibacterial agents. Ford CW, et al. **Trends Microbiol** 1997 May;5(5):196–200 (30 ref.)

The biological cost of antimicrobial resistance. Gillespie SH, et al. **Trends Microbiol** 1997 Sep;5(9):337–9

Sputum bacteriology and its antibiotic susceptibilities in Turkish cystic fibrosis patients. Ozçelik U, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):281–8

Effect of antibacterial growth promoters on the immune system of broiler chicks. al-Ankari AS, et al. **Vet Immunol Immunopathol** 1996 Oct;53(3–4):277–83

[Bacterial biofilms and resistance to disinfectants] Vidal DR, et al. **Ann Pharm Fr** 1997;55(2):49–54 (28 ref.) (Eng. Abstr.) **(Fre)**

[Effects of residues of anti-infective agents in animal excretions on slurry treatment and the soil] Böhm R. **DTW Dtsch Tierarztl Wochenschr** 1996 Jul;103(7):264–8 (12 ref.) (Eng. Abstr.) **(Ger)**

[Development of resistance in infectious agents of agricultural animals in Germany (1990–1994)—a review] Trolldenier H. **DTW Dtsch Tierarztl Wochenschr** 1996 Jul; 103(7):256–60 (9 ref.) (Eng. Abstr.) **(Ger)**

[The distribution of antibiotically-resistant organisms in the environment with special attention to salmonellae] Tschäpe H. **DTW Dtsch Tierarztl Wochenschr** 1996 Jul;103(7):273–7 (3 ref.) (Eng. Abstr.) **(Ger)**

[Bacteriological, pharmacokinetic and clinical evaluation of azithromycin in the pediatric field] Akita H, et al. **Jpn J Antibiot** 1996 Oct;49(10):899–916 (Eng. Abstr.) **(Jpn)**

[New antimicrobial agent series IL: cefepime] Hara K. **Jpn J Antibiot** 1996 Aug;49(8):766–81 (39 ref.) **(Jpn)**

[Susceptibilities of bacteria isolated from patients with respiratory infectious diseases to antibiotics (1995)] Ikemoto H, et al. **Jpn J Antibiot** 1997 May;50(5):421–59 (Eng. Abstr.) **(Jpn)**

[Susceptibilities of bacteria isolated from patients with respiratory infectious diseases to antibiotics (1992)] Ikemoto H, et al. **Jpn J Antibiot** 1996 Jan;49(1):34–70 (Eng. Abstr.) **(Jpn)**

[Antimicrobial activities of clarithromycin against clinical isolates] Koguchi M, et al. **Jpn J Antibiot** 1996 Mar; 49(3):289–300 (Eng. Abstr.) **(Jpn)**

[Comparative studies on activities of antimicrobial agents against causative organisms isolated from patients with urinary tract infections (1994). III. Secular changes in susceptibility] Kumamoto Y, et al. **Jpn J Antibiot** 1996 Jun; 49(6):555–657 (Eng. Abstr.) **(Jpn)**

[Bacteria isolated from surgical infections and its susceptibilities to antimicrobial agents. Special references to bacteria isolated between July 1994 and June 1995] Shinagawa N, et al. **Jpn J Antibiot** 1996 Sep;49(9):849–91 (Eng. Abstr.) **(Jpn)**

[Antimicrobial activity of cefodizime against clinical isolates] Suzuki Y, et al. **Jpn J Antibiot** 1996 Oct;49(10):947–65 (Eng. Abstr.) **(Jpn)**

[Novel utilization of antibiotics—a finding method of damaged parts in bacteria] Sawai J, et al. **Nippon Saikingaku Zasshi** 1996 Feb;51(2):589–99 (15 ref.) **(Jpn)**

[Molecular action mechanisms and membrane recognition of membrane-acting antimicrobial peptides] Matsuzaki K. **Yakugaku Zasshi** 1997 May;117(5):253–64 (30 ref.) (Eng. Abstr.) **(Jpn)**

[Synthesis and antibacterial properties of pyrido[2,3-b]pyrazine derivatives] Miyazawa T, et al. **Yakugaku Zasshi** 1997 Feb;117(2):126–32 (Eng. Abstr.) **(Jpn)**

[Synthesis and antibacterial properties of quinoxaline 1,4-dioxide derivatives] Takabatake T, et al. **Yakugaku Zasshi** 1996 Jun;116(6):491–6 (Eng. Abstr.) **(Jpn)**

[Multicenter study of isolated micro-organisms resistant to antimicrobials in 10 Portuguese hospitals in 1994] Cristino JM, et al. **Acta Med Port** 1996 Apr–Jun;9(4–6):141–50 (Eng. Abstr.) **(Por)**

[In vitro activity of cefetamet compared with other antimicrobial agents against bacteria isolated from respiratory tract infections] Mendes CM. **Rev Assoc Med Bras** 1997 Jan–Mar;43(1):47–52 (Eng. Abstr.) **(Por)**

[An estimation of the degree of antibiotic sensitivity of microbial strains isolated in pediatric and neonatal wards] Coşniţă M, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan–Jun;42(1–2):15–20 **(Rum)**

[A conjugate of ristomycin A ristosaminylaglycon–polymyxin B: the spectrum of its antimicrobial action and its membranolytic activity] Polin AN, et al. **Antibiot Khimioter** 1997;42(5):24–8 (Eng. Abstr.) **(Rus)**

[Non-natural aglycones of glycopeptide antibiotics of the vancomycin group. Synthesis and antibacterial activity.] Pavlov AIu, et al. **Bioorg Khim** 1997 May;23(5):410–21 (Eng. Abstr.) **(Rus)**

[Effect of proteolysis inhibitors on various bacterial pathogens and the course of the pyo-inflammatory process] Chilingirov RKh. **Patol Fiziol Eksp Ter** 1997 Jul–Sep; (3):37–9 (Eng. Abstr.) **(Rus)**

[The effect of heavy metals on the health-index microflora in mineral waters] Zotova VI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):35–7 **(Rus)**

[The effect of cefepime on ceftazidime, cefotaxime and imipenem resistant strains of Acinetobacter, Xanthomonas, Pseudomonas, Flavobacterium, Sphingobacterium and on producers of extended spectrum beta-lactamases (ESBL) with resistance transfer] Blahová J, et al. **Cas Lek Cesk** 1997 Mar 12;136(5):154–6 (Eng. Abstr.) **(Slo)**

[Antibiotic use and bacterial resistance to antibiotics: "something that concerns you"] Alós JI, et al. **Med Clin (Barc)** 1997 Sep 6;109(7):264–70 **(Spa)**

[Determination of serum aminoglycoside and vancomycin concentrations by the microbiological method in the presence of other antimicrobials] Corso A, et al. **Rev Argent Microbiol** 1996 Jul–Sep;28(3):123–31 (Eng. Abstr.) **(Spa)**

[Water disinfection: comparative activities of ozone and chlorine on a wide spectrum of bacteria] Korol S, et al. **Rev Argent Microbiol** 1995 Oct–Dec;27(4):175–83 (Eng. Abstr.) **(Spa)**

[Antimicrobial activity and interaction with DNA of medicinal plants from the Peruvian Amazon region] Mongelli E, et al. **Rev Argent Microbiol** 1995 Oct–Dec; 27(4):199–203 (Eng. Abstr.) **(Spa)**

[Prevalence of susceptibility to quinolones and other antibiotics in microorganisms isolated from community bacteriuria in Madrid in 1995. Study Group of Infections in Primary Care] Alós Cortés JI, et al. **Rev Clin Esp** 1997 Mar;197(3):167–71 (Eng. Abstr.) **(Spa)**

[Bacterial resistance to arsenic compounds] Cervantes C. **Rev Latinoam Microbiol** 1995 Oct–Dec;37(4):387–95 (62 ref.) (Eng. Abstr.) **(Spa)**

[The antibacterial activity of preparations with highly dispersed iron] Hvozdiak RI, et al. **Mikrobiol Z** 1996 Nov–Dec;58(6):45–9 (Eng. Abstr.) **(Ukr)**

ENZYMOLOGY

Investigation of the carbon- and sulfur-oxidizing capabilities of microorganisms by active-site modeling. Holland HL. **Adv Appl Microbiol** 1997;44:125–65 (90 ref.)

Screening of novel microbial enzymes for the production of biologically and chemically useful compounds. Shimizu S, et al. **Adv Biochem Eng Biotechnol** 1997;58:45–87 (163 ref.)

Structure-function analysis of the bacterial aromatic ring-hydroxylating dioxygenases. Butler CS, et al. **Adv Microb Physiol** 1997;38:47–84 (140 ref.)

Thiol template peptide synthesis systems in bacteria and fungi. Zocher R, et al. **Adv Microb Physiol** 1997;38:85–131 (120 ref.)

Modified fluorimetric assay for estimating ampicilloate concentrations and its use for detecting beta-lactamase and penicillin acylase activity in bacteria. Baker WL. **Analyst** 1997 May;122(5):447–53

The F0F1-type ATP synthases of bacteria: structure and function of the F0 complex. Deckers-Hebestreit G, et al. **Annu Rev Microbiol** 1996;50:791–824 (174 ref.)

Microbial hydrolysis of polysaccharides. Warren RA. **Annu Rev Microbiol** 1996;50:183–212 (175 ref.)

O-Acetyltransferases for chloramphenicol and other natural products. Murray IA, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):1–6 (41 ref.)

Carbapenem-hydrolyzing beta-lactamases. Rasmussen BA, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):223–32 (88 ref.)

Natural horizontal transfer of a naphthalene dioxygenase gene between bacteria native to a coal tar-contaminated field site. Herrick JB, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2330–7

A histidine protein kinase homolog from the endosymbiont of the hydrothermal vent tubeworm Riftia pachyptila. Hughes DS, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3494–8

Activity of H(+)-ATPase in ruminal bacteria with special reference to acid tolerance. Miwa T, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2155–8

Simultaneous determination of gene expression and bacterial identity in single cells in defined mixtures of pure cultures. Poulsen LK, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3698–702

Application of autolysin and deoxyribonuclease profiles generated by renaturing SDS-PAGE in the comparison of selected Proteobacteria. Charnock C. **Arch Microbiol** 1997 Jun;167(6):356–62

Purification and characterization of a novel type of protocatechuate 3,4-dioxygenase with the ability to oxidize 4-sulfocatechol. Hammer A, et al. **Arch Microbiol** 1996 Aug;166(2):92–100

Metabolic characterisation of a novel vanillylmandelate-degrading bacterium. Turner JE, et al. **Arch Microbiol** 1996 Oct;166(4):252–9

A comparison of cysteine and serine proteinases in human gingival crevicular fluid with tissue, saliva and bacterial enzymes by analytical isoelectric focusing. Gazi MI, et al. **Arch Oral Biol** 1996 May;41(5):393–400

An unusual bacterial reverse transcriptase having LVDD in the YXDD box from Escherichia coli. Mao JR, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):489–93

Identification of a novel determinant of glutathione affinity in dichloromethane dehalogenases/glutathione S-transferases. Vuilleumier S, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):452–6

Cloning and expression of the inorganic pyrophosphatase gene from thermophilic bacterium PS-3. Maruyama S, et al. **Biochem Mol Biol Int** 1996 Nov;40(4):679–88

The structure and mechanism of DNA gyrase from divergent bacterial species. Gilchrist DS, et al. **Biochem Soc Trans** 1996 Aug;24(3):421S

Microbial lipases: structures, function and industrial applications. Rogalska E, et al. **Biochem Soc Trans** 1997 Feb;25(1):161–4 (34 ref.)

Some biochemical properties and the classification of a range of bacterial haloalkane dehalogenases. Damborsky J, et al. **Biotechnol Appl Biochem** 1997 Aug;26 (Pt 1):19–25

Increased bacterial urease activity in faeces in juvenile chronic arthritis: evidence of altered intestinal microflora? Malin M, et al. **Br J Rheumatol** 1996 Jul;35(7):689–94

Bacterial glycosulphatases and sulphomucin degradation. Robertson AM, et al. **Can J Gastroenterol** 1997 May–Jun; 11(4):361–6

Effect of sucrose intake on numbers of bacteria in plaque expressing extracellular carbohydrate metabolizing enzymes. Mikkelsen L. **Caries Res** 1996;30(1):65–70

Synthesis and evaluation of inhibitors of bacterial D-alanine:D-alanine ligases. Ellsworth BA, et al. **Chem Biol** 1996 Jan;3(1):37–44

The evolution of beta-lactamases. Bush K. **Ciba Found Symp** 1997;207:152–63; discussion 163–6

Xylanolytic enzymes from fungi and bacteria. Sunna A, et al. **Crit Rev Biotechnol** 1997;17(1):39–67 (187 ref.)

Microbial beta-amylases: biosynthesis, characteristics, and industrial applications. Ray RR, et al. **Crit Rev Microbiol** 1996;22(3):181–99 (102 ref.)

New applications of bacterial systems to problems in toxicology. Guengerich FP, et al. **Crit Rev Toxicol** 1996 Sep;26(5):551–83 (254 ref.)

In vivo characterization of host and bacterial protease expression during Pseudomonas aeruginosa corneal infections in naive and immunized mice. Kernacki KA, et al. **Curr Eye Res** 1997 Apr;16(4):289–97

Structure of bacterial luciferase. Baldwin TO, et al. **Curr Opin Struct Biol** 1995 Dec;5(6):798–809 (72 ref.)

Azoreductase and nitroreductase activity of bacteria in feces from patients with an ileal reservoir. Rafii F, et al. **Dig Dis Sci** 1997 Jan;42(1):133–6

Bacterial DD-transpeptidases and penicillin. Jamin M, et al. **Essays Biochem** 1995;29:1–24 (37 ref.)

Sequencing and expression of the gene encoding a cold-active citrate synthase from an Antarctic bacterium, strain DS2-3R. Gerike U, et al. **Eur J Biochem** 1997 Aug 15;248(1):49–57

Cloning and expression of the gene for serine-glyoxylate aminotransferase from an obligate methylotroph Hyphomicrobium methylovorum GM2. Hagishita T, et al. **Eur J Biochem** 1996 Oct 1;241(1):1–5

Imidase, a dihydropyrimidinase-like enzyme involved in the metabolism of cyclic imides. Ogawa J, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):322–7

An ultracentrifugal approach to quantitative characterization of the molecular assembly of a physiological electron-transfer complex: the interaction of electron-transferring flavoprotein with trimethylamine dehydrogenase. Wilson EK, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):393–9

Is it important to identify extended-spectrum beta-lactamase-producing isolates? [editorial] Bush K. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):361–4 (38 ref.)

Cloning and expression of superoxide dismutase from Aquifex pyrophilus, a hyperthermophilic bacterium. Lim JH, et al. **FEBS Lett** 1997 Apr 7;406(1–2):142–6

Scavengase p20: a novel family of bacterial antioxidant enzymes. Wan XY, et al. **FEBS Lett** 1997 Apr 21; 407(1):32–6

Purification and characterization of malate dehydrogenase from the syntrophic propionate-oxidizing bacterium strain MPOB. van Kuijk BL, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):141–4

Ecofunctional enzymes of microbial communities in ground water. Fliermans CB, et al. **FEMS Microbiol Rev** 1997 Jul; 20(3–4):379–89

A modified agar medium for the screening of proteolytic activity of starter cultures for meat fermentation purposes. Fransen NG, et al. **Int J Food Microbiol** 1997 May 20; 36(2–3):235–9

Structural studies of malate dehydrogenases (MDHs): MDHs in Brevundimonas species are the first reported MDHs in Proteobacteria which resemble lactate dehydrogenases in primary structure. Charnock C. **J Bacteriol** 1997 Jun; 179(12):4066–70

Bacterial glutathione S-transferases: what are they good for? Vuilleumier S. **J Bacteriol** 1997 Mar;179(5):1431–41 (94 ref.)

2-oxoacid:ferredoxin oxidoreductase from the thermoacidophilic archaeon, Sulfolobus sp. strain 7. Zhang Q, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):587–99

Reaction mechanism of Amphibacillus xylanus NADH oxidase/alkyl hydroperoxide reductase flavoprotein.

Niimura Y, et al. **J Biol Chem** 1996 Nov 29; 271(48):30459–64

Activation of human matrix metalloproteinases by various bacterial proteinases. Okamoto T, et al. **J Biol Chem** 1997 Feb 28;272(9):6059–66

beta-Lactamase producing bacteria in adult periodontitis. van Winkelhoff AJ, et al. **J Clin Periodontol** 1997 Aug; 24(8):538–43

The crystal structure of an Fe-superoxide dismutase from the hyperthermophile Aquifex pyrophilus at 1.9 A resolution: structural basis for thermostability. Lim JH, et al. **J Mol Biol** 1997 Jul 11;270(2):259–74

Horizontal gene transfer contributes to the wide distribution and evolution of type II restriction-modification systems. Jeltsch A, et al. **J Mol Evol** 1996 Feb;42(2):91–6

Fecal bacterial enzyme activities in infants increase with age and adoption of adult-type diet. Mykkänen H, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):312–6

Are bacterial proteases important virulence factors? Lantz MS. **J Periodontal Res** 1997 Jan;32(1 Pt 2):126–32 (47 ref.)

The role of mammalian intestinal bacteria in the reductive metabolism of zonisamide. Kitamura S, et al. **J Pharm Pharmacol** 1997 Mar;49(3):253–6

Cleavage of influenza A virus H1 hemagglutinin by swine respiratory bacterial proteases. Callan RJ, et al. **J Virol** 1997 Oct;71(10):7579–85

Role of microbial proteases in pathogenesis. Maeda H. **Microbiol Immunol** 1996;40(10):685–99 (81 ref.)

Biogenesis of respiratory cytochromes in bacteria. Thöny-Meyer L. **Microbiol Mol Biol Rev** 1997 Sep; 61(3):337–76 (403 ref.)

Analysis of the tertiary structure of bacterial RNase P RNA. Harris ME, et al. **Mol Biol Rep** 1995–96;22(2–3):115–23 (50 ref.)

RNase P from bacteria. Substrate recognition and function of the protein subunit. Kirsebom LA, et al. **Mol Biol Rep** 1995–96;22(2–3):99–109 (97 ref.)

Eubacterial proteasomes. Lupas A, et al. **Mol Biol Rep** 1997 Mar;24(1–2):125–31 (50 ref.)

Cis and trans in site-specific recombination [letter] Blakely GW, et al. **Mol Microbiol** 1996 Apr;20(1):234–7

Bacterial cytochromes P-450. Munro AW, et al. **Mol Microbiol** 1996 Jun;20(6):1115–25 (63 ref.)

Effects of fish oil on fecal bacterial enzymes and steroid excretion in healthy volunteers: implications for colon cancer prevention. Bartram HP, et al. **Nutr Cancer** 1996; 25(1):71–8

The protein phosphatase 2C (PP2C) superfamily: detection of bacterial homologues. Bork P, et al. **Protein Sci** 1996 Jul;5(7):1421–5

A distant evolutionary relationship between bacterial sphingomyelinase and mammalian DNase I. Matsuo Y, et al. **Protein Sci** 1996 Dec;5(12):2459–67

Breakdown of peptides from a casein hydrolysate by rumen bacteria. Simultaneous study of enzyme activities and physicochemical parameters. Depardon N, et al. **Reprod Nutr Dev** 1996;36(5):457–66

Microbial lipases: production and applications. Ghosh PK, et al. **Sci Prog** 1996;79 (Pt 2):119–57 (35 ref.)

In industry, extremophiles begin to make their mark [news] Pennisi E. **Science** 1997 May 2;276(5313):705–6

ATP-dependent proteases that also chaperone protein biogenesis. Suzuki CK, et al. **Trends Biochem Sci** 1997 Apr; 22(4):118–23 (48 ref.)

Bacterial phospholipases [letter; comment] Titball RW. **Trends Microbiol** 1997 Jul;5(7):265. Comment on: Trends Microbiol 1997 Apr;5(4):156–61.

In vivo effects of urease-producing bacteria involved with the pathogenesis of infection-induced urolithiasis on renal urokinase and sialidase activity. du Toit PJ, et al. **Urol Res** 1995;23(5):335–8

Potential contribution of optional urease-positive bacteria to idiopathic urinary calcium stone formation. I. Expression of urease activity in bacteria from the urinary tract that are commonly classified as urease-negative. Sabinski F, et al. **Urol Res** 1996;24(1):51–4

[Acquisition of antibiotic-resistance in bacteria by alteration of molecular target, or by the decreased permeability] Hashimoto H. **Nippon Rinsho** 1997 May;55(5):1167–72 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Biochemical and genetic mechanisms for bacteria to acquire aminoglycoside antibiotic resistance] Hotta K. **Nippon Rinsho** 1997 May;55(5):1231–7 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Development of beta-lactamase inhibitors] Hyodo A, et al. **Nippon Rinsho** 1997 May;55(5):1272–80 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Appearance of extended-spectrum beta-lactamases] Iyobe S. **Nippon Rinsho** 1997 May;55(5):1219–24 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Bacterial beta-lactamases] Makarov AN, et al. **Antibiot Khimioter** 1996 Jan;41(1):45–58 (86 ref.) **(Rus)**

[Collagenolytic enzymes synthesized by microorganisms] Demina NS, et al. **Mikrobiologiia** 1996 May-Jun; 65(3):293–304 (83 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

Molecular epidemiologic analysis of antibiotic resistant microorganisms. John JF Jr. **Adv Exp Med Biol** 1995; 390:155–68 (56 ref.)

Mutational analysis of the human mitochondrial genome branches into the realm of bacterial genetics [editorial; comment] Howell N. **Am J Hum Genet** 1996 Oct; 59(4):749–55. Comment on: Am J Hum Genet 1996 Oct;59(4):772–80.

Bacterial typing: storing and processing of stabilized reference bacteria for polymerase chain reaction without preparing DNA--an example of an automatable procedure. Rogers C, et al. **Anal Biochem** 1997 May 1;247(2):223–7

Genetic and tissue culture systems for the study of bacterial pathogenesis. Quinn FD, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:19–25 (27 ref.)

Bacterial diversity based on type II DNA topoisomerase genes. Huang WM. **Annu Rev Genet** 1996;30:79–107 (86 ref.)

Towards a unified evolutionary genetics of microorganisms. Tibayrenc M. **Annu Rev Microbiol** 1996;50:401–29 (75 ref.)

Detection of erythromycin-resistant determinants by PCR. Sutcliffe J, et al. **Antimicrob Agents Chemother** 1996 Nov; 40(11):2562–6

Protein phylogenies and signature sequences: evolutionary relationships within prokaryotes and between prokaryotes and eukaryotes. Gupta RS. **Antonie Van Leeuwenhoek** 1997 Jul;72(1):49–61

Bacterial evolution and metabolism. Trevors JT. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):257–63 (35 ref.)

Evolution of bacterial genomes. Trevors JT. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):265–70 (28 ref.)

Bacterial evolution and silicon. Trevors JT. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):271–6 (33 ref.)

Molecular microbial diversity in soils from eastern Amazonia: evidence for unusual microorganisms and microbial popuiation shifts associated with deforestation. Borneman J, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2647–53

Diversity and association of psychrophilic bacteria in Antarctic sea ice. Bowman JP, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3068–78

A computer analysis of primer and probe hybridization potential with bacterial small-subunit rRNA sequences. Brunk CF, et al. **Appl Environ Microbiol** 1996 Mar; 62(3):872–9

Subcuticular bacteria from the brittle star Ophiactis balli (Echinodermata: Ophiuroidea) represent a new lineage of extracellular marine symbionts in the alpha subdivision of the class Proteobacteria. Burnett WJ, et al. **Appl Environ Microbiol** 1997 May;63(5):1721–4

Identification and sequence analysis of two regulatory genes involved in anaerobic toluene metabolism by strain T1. Coschigano PW, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):652–60

PCR-mediated detection of acidophilic, bioleaching-associated bacteria. De Wulf-Durand P, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2944–8

Development of a species-specific gene probe for Hyphomicrobium facilis with the inverse PCR. Fesefeldt A, et al. **Appl Environ Microbiol** 1997 Jan;63(1):335–7

Diversity and depth-specific distribution of SAR11 cluster rRNA genes from marine planktonic bacteria. Field KG, et al. **Appl Environ Microbiol** 1997 Jan;63(1):63–70

Phylogenetic analysis of the bacterial communities in marine sediments. Gray JP, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4049–59

Natural horizontal transfer of a naphthalene dioxygenase gene between bacteria native to a coal tar-contaminated field site. Herrick JB, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2330–7

Bacterial diversity in Adirondack mountain lakes as revealed by 16S rRNA gene sequences. Hiorns WD, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2957–60

A histidine protein kinase homolog from the endosymbiont of the hydrothermal vent tubeworm Riftia pachyptila. Hughes DS, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3494–8

Molecular evidence for association between the sphingobacterium-like organism "Candidatus comitans" and the myxobacterium Chondromyces crocatus. Jacobi CA, et al. **Appl Environ Microbiol** 1997 Feb;63(2):719–23

Homology between genes for aromatic hydrocarbon degradation in surface and deep-subsurface Sphingomonas strains. Kim E, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1467–70

A new computational method for detection of chimeric 16S rRNA artifacts generated by PCR amplification from mixed bacterial populations. Komatsoulis GA, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2338–46

Phylogenetic diversity of bacterial symbionts of Solemya hosts based on comparative sequence analysis of 16S rRNA genes. Krueger DM, et al. **Appl Environ Microbiol** 1997 Jan;63(1):91–8

A novel means to develop strain-specific DNA probes for detecting bacteria in the environment. Matheson VG, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2863–9

Distribution of bacterioplankton in meromictic Lake Saelenvannet, as determined by denaturing gradient gel electrophoresis of PCR-amplified gene fragments coding for 16S rRNA. Ovreås L, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3367–73

Dominant marine bacterioplankton species found among colony-forming bacteria. Pinhassi J, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3359–66

Bacterial populations in samples of bioleached copper ore as revealed by analysis of DNA obtained before and after cultivation. Pizarro J, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1323–8

Simultaneous determination of gene expression and bacterial identity in single cells in defined mixtures of pure cultures. Poulsen LK, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3698–702

Distribution of bacterial populations in a stratified fjord (Mariager Fjord, Denmark) quantified by in situ hybridization and related to chemical gradients in the water column [published erratum appears in Appl Environ Microbiol 1996 Oct;62(10):3914] Ramsing NB, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1391–404

Molecular beacons: trial of a fluorescence-based solution hybridization technique for ecological studies with ruminal bacteria. Schofield P, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1143–7

Phylogenetic analysis and in situ identification of bacteria in activated sludge. Snaidr J, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2884–96

Molecular diversity of soil and marine 16S rRNA gene sequences related to beta-subgroup ammonia-oxidizing bacteria. Stephen JR, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4147–54

Molecular identification of bacteria from a coculture by denaturing gradient gel electrophoresis of 16S ribosomal DNA fragments as a tool for isolation in pure cultures. Teske A, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4210–5

Diversity of uncultured microorganisms associated with the seagrass Halophila stipulacea estimated by restriction fragment length polymorphism analysis of PCR-amplified 16S rRNA genes. Weidner S, et al. **Appl Environ Microbiol** 1996 Mar;62(3):766–71

A novel delta-subdivision proteobacterial lineage from the lower ocean surface layer. Wright TD, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1441–8

Recent advances in genetic analyses of hyperthermophilic archaea and bacteria. Noll KM, et al. **Arch Microbiol** 1997 Aug;168(2):73–80 (50 ref.)

Translational termination efficiency in both bacteria and mammals is regulated by the base following the stop codon. Tate WP, et al. **Biochem Cell Biol** 1995 Nov-Dec; 73(11–12):1095–103 (42 ref.)

A method to detect transmembrane helical segments at the nucleotide level. Lesnik T, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):937–55

Selective compartments for resistant microorganisms in antibiotic gradients. Baquero F, et al. **Bioessays** 1997 Aug; 19(8):731–6 (21 ref.)

A quantum-theoretical approach to the phenomenon of directed mutations in bacteria (hypothesis). Ogryzko VV. **Biosystems** 1997;43(2):83–95

Method for simultaneous RNA and DNA isolation from biopsy material, culture cells, plants and bacteria. Döbbeling U, et al. **Biotechniques** 1997 Jan;22(1):88–90

"Colony sequencing": direct sequencing of plasmid DNA from bacterial colonies. Kilger C, et al. **Biotechniques** 1997 Mar;22(3):412–4, 416, 418

Transformation of methylotrophic bacteria by electroporation. Gliesche CG. **Can J Microbiol** 1997 Feb; 43(2):197–201

Mutation in resting cells: the role of endogenous DNA damage. Bridges BA. **Cancer Surv** 1996;28:155–67 (47 ref.)

The relevance of bacterial mutators to understanding human cancer. Miller JH. **Cancer Surv** 1996;28:141–53 (89 ref.)

Origins, acquisition and dissemination of antibiotic resistance determinants. Davies JE. **Ciba Found Symp** 1997;207:15–27; discussion 27–35 (55 ref.)

The cost of antibiotic resistance--from the perspective of a bacterium. Lenski RE. **Ciba Found Symp** 1997;207:131–40; discussion 141–51 (38 ref.)

Genetic mobility and distribution of tetracycline resistance determinants. Roberts MC. **Ciba Found Symp** 1997; 207:206–18; discussion 219–22

Simultaneous multianalyte nucleic acid detection for gastrointestinal bacterial pathogens using GeneSTAR technology. Wu L, et al. **Clin Lab Med** 1997 Mar; 17(1):129–45 (32 ref.)

Whither microbiology? Phylogenetic trees. Woese CR. **Curr Biol** 1996 Sep 1;6(9):1060–3 (10 ref.)

Expression in bacteria other than Escherichia coli. Billman-Jacobe H. **Curr Opin Biotechnol** 1996 Oct; 7(5):500–4 (52 ref.)

Differentiation and gene regulation. Differentiation from bacteria to humans. Dawid IB, et al. **Curr Opin Genet Dev** 1996 Oct;6(5):523–5

Antimicrobial resistance: implications, consequences and possible solutions [editorial; comment] Waiyaki PG. **East Afr Med J** 1997 Mar;74(3):121–3. Comment on: East Afr Med J 1997 Mar;74(3):162–5. Comment on: East Afr Med J 1997 Mar;74(3):171–3. Comment on: East Afr Med J 1997 Mar;74(3):193–7.

Molecular population genetic analysis of emerged bacterial pathogens: selected insights. Musser JM. **Emerg Infect Dis** 1996 Jan-Mar;2(1):1–17 (164 ref.)

Database and software for the analysis of mutations at the lacI gene in both transgenic rodents and bacteria. Cariello NF, et al. **Environ Mol Mutagen** 1996;28(4):397–404

Sequencing and expression of the gene encoding a cold-active citrate synthase from an Antarctic bacterium, strain DS2-3R. Gerike U, et al. **Eur J Biochem** 1997 Aug 15;248(1):49–57

Detection and in situ identification of representatives of a widely distributed new bacterial phylum. Ludwig W, et

al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):181–90

Microbial flora in the deepest sea mud of the Mariana Trench. **Takami H**, et al. **FEMS Microbiol Lett** 1997 Jul 15; 152(2):279–85

Cloning and analysis of methanol oxidation genes in the methylotroph Hyphomicrobium methylovorum GM2. **Tanaka Y**, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):397–401

Tetracycline resistance determinants: mechanisms of action, regulation of expression, genetic mobility, and distribution. Roberts MC. **FEMS Microbiol Rev** 1996 Oct;19(1):1–24 (131 ref.)

Spontaneous mutations in bacteria: chance or necessity? MacPhee DG, et al. **Genetica** 1996 Jan;97(1):87–101 (56 ref.)

Genetic divergence and fitness convergence under uniform selection in experimental populations of bacteria. Korona R. **Genetics** 1996 Jun;143(2):637–44

Selfish operons: horizontal transfer may drive the evolution of gene clusters. Lawrence JG, et al. **Genetics** 1996 Aug; 143(4):1843–60

The evolution of bacterial transformation: sex with poor relations. Redfield RJ, et al. **Genetics** 1997 May; 146(1):27–38

Phylogeny and potential transmission routes of midgut-associated endosymbionts of tsetse (Diptera:Glossinidae). Aksoy S, et al. **Insect Mol Biol** 1997 May;6(2):183–90

Phylogenetic relationships and uncertain taxonomy of Pedomicrobium species. Cox TL, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):377–80

Compositional biases of bacterial genomes and evolutionary implications. Karlin S, et al. **J Bacteriol** 1997 Jun; 179(12):3899–913

Expression and control of an operon from an intracellular symbiont which is homologous to the groE operon. Sato S, et al. **J Bacteriol** 1997 Apr;179(7):2300–4

Open reading frame 3 of the barotolerant bacterium strain DSS12 is complementary with cydD in Escherichia coli: cydD functions are required for cell stability at high pressure. Kato C, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):301–5

Structure and expression of the dnaKJ operon of Buchnera, an intracellular symbiotic bacteria of aphid. Sato S, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):41–8

Amplification and restriction endonuclease digestion of a large fragment of genes coding for rRNA as a rapid method for discrimination of closely related pathogenic bacteria [see comments] Ibrahim A, et al. **J Clin Microbiol** 1996 Dec;34(12):2894–6. Comment in: J Clin Microbiol 1997 Jun;35(6):1646–7.

Do ruminal bacteria exchange genetic material? Morrison M. **J Dairy Sci** 1996 Aug;79(8):1476–86 (62 ref.)

A survey of polypeptide deformylase function throughout the eubacterial lineage. Mazel D, et al. **J Mol Biol** 1997 Mar 14;266(5):939–49

Relationships between genomic G+C content, RNA secondary structures, and optimal growth temperature in prokaryotes. Galtier N, et al. **J Mol Evol** 1997 Jun; 44(6):632–6

Horizontal gene transfer contributes to the wide distribution and evolution of type II restriction-modification systems. Jeltsch A, et al. **J Mol Evol** 1996 Feb;42(2):91–6

Transkingdom transfer of the phosphoglucose isomerase gene. Katz LA. **J Mol Evol** 1996 Nov;43(5):453–9

Amelioration of bacterial genomes: rates of change and exchange. Lawrence JG, et al. **J Mol Evol** 1997 Apr; 44(4):383–97

Relationships between bacterial drug resistance pumps and other transport proteins. Parish JH, et al. **J Mol Evol** 1996 Feb;42(2):281–93

A possible role for plasmids in mediating the cell–cell proximity required for gene flux. Amábile-Cuevas CF, et al. **J Theor Biol** 1996 Aug 7;181(3):237–43

A mathematical model to determine the optimal number of fragments for comparison of bacterial chromosomic macrorestriction patterns. Méndez-Alvarez S, et al. **J Theor Biol** 1997 Apr 7;185(3):367–72

Proliferative enteropathy of rabbits: the intracellular Campylobacter-like organism is closely related to Lawsonia intracellularis. Hotchkiss CE, et al. **Lab Anim Sci** 1996 Dec;46(6):623–7

Signal transduction and transcriptional and posttranscriptional control of iron-regulated genes in bacteria. Crosa JH. **Microbiol Mol Biol Rev** 1997 Sep; 61(3):319–36 (178 ref.)

Histidine biosynthetic pathway and genes: structure, regulation, and evolution. Alifano P, et al. **Microbiol Rev** 1996 Mar;60(1):44–69 (297 ref.)

Are bacterial biofilms constrained to Darwin's concept of evolution through natural selection? Caldwell DE, et al. **Microbiologia** 1996 Sep;12(3):347–58 (61 ref.)

Transfer RNA gene organization and RNase P. Green CJ. **Mol Biol Rep** 1995–96;22(2–3):181–5 (67 ref.)

Ribosomal RNA gene dosage in marine bacteria. Kerkhof L, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):260–7

Alteration in plasmid DNA following natural transformation to populations of marine bacteria. Williams HG, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):238–47

A stringently controlled expression system for analysing lateral gene transfer between bacteria. Jaenecke S, et al. **Mol Microbiol** 1996 Jul;21(2):293–300

Dynamic bacterial genome organization. Kolstø AB. **Mol Microbiol** 1997 Apr;24(2):241–8 (80 ref.)

Evolution of the tryptophan biosynthetic pathway in Buchnera (aphid endosymbionts): studies of plasmid-associated trpEG within the genus Uroleucon. Rouhbakhsh D, et al. **Mol Phylogenet Evol** 1997 Oct; 8(2):167–76

Bacterial biocatalysis: stealing a page from nature's book [news] Wackett LP. **Nat Biotechnol** 1997 May;15(5):415–6

Avoidance of palindromic words in bacterial and archaeal genomes: a close connection with restriction enzymes. Gelfand MS, et al. **Nucleic Acids Res** 1997 Jun 15; 25(12):2430–9

D-Ala–D-Ala ligases from glycopeptide antibiotic-producing organisms are highly homologous to the enterococcal vancomycin-resistance ligases VanA and VanB. Marshall CG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6480–3

Bacteria gone native vs. bacteria gone awry?: plasmidic transfer and bacterial evolution. Souza V, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5501–3 (23 ref.)

RecA protein: structure, function, and role in recombinational DNA repair. Roca AI, et al. **Prog Nucleic Acid Res Mol Biol** 1997;56:129–223 (428 ref.)

Evolution evolving. New findings suggest mutation is more complicated than anyone thought [news] Beardsley T. **Sci Am** 1997 Sep;277(3):15, 18

Microbial pathogenesis: genomics and beyond. Strauss EJ, et al. **Science** 1997 May 2;276(5313):707–12 (29 ref.)

PAS domain S-boxes in Archaea, Bacteria and sensors for oxygen and redox. Zhulin IB, et al. **Trends Biochem Sci** 1997 Sep;22(9):331–3

Gene order is not conserved in bacterial evolution [letter] Mushegian AR, et al. **Trends Genet** 1996 Aug;12(8):289–90

Genome organization, natural genetic engineering and adaptive mutation. Shapiro JA. **Trends Genet** 1997 Mar; 13(3):98–104 (68 ref.)

Contact with eukaryotic cells: a new signal triggering bacterial gene expression. Cornelis GR. **Trends Microbiol** 1997 Feb;5(2):43–4; discussion 44–5 (9 ref.)

Flexible response: DNA supercoiling, transcription and bacterial adaptation to environmental stress. Dorman CJ. **Trends Microbiol** 1996 Jun;4(6):214–6 (15 ref.)

Intercellular communication and group behavior in bacteria. Gray KM. **Trends Microbiol** 1997 May;5(5):184–8 (30 ref.)

Selfish operons and speciation by gene transfer. Lawrence JG. **Trends Microbiol** 1997 Sep;5(9):355–9 (25 ref.)

Genetic barriers among bacteria. Matic I, et al. **Trends Microbiol** 1996 Feb;4(2):69–72 (51 ref.)

Probing bacterial gene expression within host cells. Valdivia RH, et al. **Trends Microbiol** 1997 Sep;5(9):360–3 (16 ref.)

[Possibilities and limits of molecular genetic detection methods in medical microbiology. Wishful thinking and reality] Göbel UB. **Internist (Berl)** 1996 Sep;37(9):919–25 (24 ref.) **(Ger)**

[Unusual pathways and environmentally regulated genes of bacterial heme biosynthesis] Jahn D, et al. **Naturwissenschaften** 1996 Sep;83(9):389–400 (67 ref.) (Eng. Abstr.) **(Ger)**

[Infectious diseases: current diagnostic methods] Vernazza PL, et al. **Schweiz Rundsch Med Prax** 1996 Oct 1; 85(40):1245–8 (Eng. Abstr.) **(Ger)**

[Dynamics of pathogenic genes of bacteria: horizontal gene transfer and and gene conversion] Nakayama K. **Fukuoka Igaku Zasshi** 1996 Aug;87(8):173–7 (4 ref.) **(Jpn)**

[Mechanisms of endogenous drug resistance acquisition by spontaneous chromosomal gene mutation] Fukuda H, et al. **Nippon Rinsho** 1997 May;55(5):1185–90 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Mechanism of acquiring drug-resistance genes in pathogenic bacteria] Iyobe S. **Nippon Rinsho** 1997 May;55(5):1179–84 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Mechanisms for the development of quinolone resistance] Kojima M. **Nippon Rinsho** 1997 May;55(5):1252–60 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Regulation mechanism of glycopeptide resistance expression] Ohno A, et al. **Nippon Rinsho** 1997 May; 55(5):1206–12 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Resistance to glycopeptide antibiotics] Trenin AS. **Antibiot Khimioter** 1996 May;41(5):49–60 (78 ref.) **(Rus)**

[Identification and classification of strains of microorganisms using genomic fingerprinting with biotinylated phage M13 DNA] Oreshkova SF, et al. **Genetika** 1996 Jun;32(6):740–3 (Eng. Abstr.) **(Rus)**

[Genomic polymorphism in the resolution of the fundamental and applied problems of microbiology and epidemiology] Shaginian IA. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun;(3):21–4 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

The ability of bacteria to use Na-hyaluronate as a nutrient. Costagliola C, et al. **Acta Ophthalmol Scand** 1996 Dec; 74(6):566–8

Nutrient content and survival of selected pathogenic bacteria in kenkey used as a weaning food in Ghana. Annan-Prah A, et al. **Acta Trop** 1997 Apr 30;65(1):33–42

Factors influencing microbial growth and the efficiency of microbial protein synthesis: a review. Fébel H, et al. **Acta Vet Hung** 1996;44(1):39–56 (83 ref.)

Effect of saponins on the growth and activity of rhizosphere bacteria. Zablotowicz RM, et al. **Adv Exp Med Biol** 1996; 405:83–95

Effect of surgical hand scrub time on subsequent bacterial growth. Wheelock SM, et al. **AORN J** 1997 Jun; 65(6):1087–92; 1094–8

Ultrastructure of colony-like communities of bacteria. Tetz VV, et al. **APMIS** 1997 Feb;105(2):99–107

Characterization of the sediment bacterial community in groundwater discharge zones of an alkaline fen: a seasonal study. Gsell TC, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3111–8

Phosphorus and bacterial growth in drinking water. Miettinen IT, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3242–5

Basic studies on 5-(7-hydroxy-3-O-phosphonocholyl)aminosalicylic acid for the evaluation of microbial overgrowth. Konishi T, et al. **Biol Pharm Bull** 1997 Apr;20(4):370–5

Fabrication of an autoclavable one-way valve for venting fermentation gases. Skory CD, et al. **Biotechniques** 1997 Jan;22(1):82

Compared effects of three oligosaccharides on metabolism of intestinal microflora in rats inoculated with a human faecal flora. Djouzi Z, et al. **Br J Nutr** 1997 Aug; 78(2):313–24

The effects of storage time on the growth of bacterial flora in bottled drinking water. Sefcová H. **Cent Eur J Public Health** 1997 Mar;5(1):32–4

A growth inhibition test with sewage bacteria--results of an international ring test 1995. Strotmann UJ, et al. **Chemosphere** 1996 Mar;32(5):921–33

Developmental programs in bacteria. Roberts RC, et al. **Curr Top Dev Biol** 1996;34:207–57 (288 ref.)

Clinical comparison of the BACTEC 9000 Standard Anaerobic/F and Lytic/F blood culture media. Hollick GE, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):191–6

Rejection criteria for endotracheal aspirates in neonates. Clinical impact. Rand KH. **Diagn Microbiol Infect Dis** 1997 Mar;27(3):55–61

Evaluation of CPS ID 2 chromogenic agar as a single medium for urine culture. Reisner BS, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):113–7

Effect of nizatidine 300 mg at night and omeprazole 20 mg in the morning on 24-hour intragastric pH and bacterial overgrowth in patients with acute duodenal ulcer. Brummer RJ, et al. **Dig Dis Sci** 1996 Oct;41(10):2048–54

Improvement in specificity of [14C]d-xylose breath test for bacterial overgrowth. Lewis SJ, et al. **Dig Dis Sci** 1997 Aug;42(8):1587–92

Small bowel bacterial overgrowth in patients after total gastrectomy. Brägelmann R, et al. **Eur J Clin Invest** 1997 May;27(5):409–16

Microbiological contamination of drinking water in a commercial household water filter system. Daschner FD, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):233–7

Gastric bacterial overgrowth accompanies profound acid suppression. Patel TA, et al. **Indian J Gastroenterol** 1995 Oct;14(4):134–6

No apparent influence of immunoglobulins on indigenous oral and intestinal microbiota of mice. Marcotte H, et al. **Infect Immun** 1996 Nov;64(11):4694–9

The effect of previous growth conditions on the lag phase time of some foodborne pathogenic micro-organisms. Dufrenne J, et al. **Int J Food Microbiol** 1997 Jan;34(1):89–94

Inhibition of microbial growth in chub-packed ground beef by refrigeration (2 degrees C) and medium-dose (2.2 to 2.4 kGy) irradiation. Gamage SD, et al. **Int J Food Microbiol** 1997 Jul 22;37(2-3):175–82

Adherence to stainless steel by foodborne microorganisms during growth in model food systems. Hood SK, et al. **Int J Food Microbiol** 1997 Jul 22;37(2-3):145–53

Simple relationship between acid dissociation constant and minimal pH for microbial growth in laboratory medium. Rosso L, et al. **Int J Food Microbiol** 1997 Mar 18; 35(1):75–81

Effect of nitrate and nitrite curing salts on microbial changes and sensory quality of rapid ripened sausages. Sanz Y, et al. **Int J Food Microbiol** 1997 Jul 22;37(2-3):225–9

Enumeration of human colonic bacteria producing phenolic and indolic compounds: effects of pH, carbohydrate availability and retention time on dissimilatory aromatic amino acid metabolism. Smith EA, et al. **J Appl Bacteriol** 1996 Sep;81(3):288–302

Population dynamics and competition in chemostat models with adaptive nutrient uptake. Tang B, et al. **J Math Biol** 1997 Mar;35(4):453–79

Mucosa-associated bacterial flora of the human colon. Poxton IR, et al. **J Med Microbiol** 1997 Jan;46(1):85–91

Diet and carcinogen alter the fecal microbial populations of rats. Maciorowski KG, et al. **J Nutr** 1997 Mar; 127(3):449–57

Effects of combined topical metronidazole and mechanical treatment on the subgingival flora in deep periodontal pockets in cuspids and bicuspids. Hitzig C, et al. **J Periodontol** 1997 Jul;68(7):613–7

Subgingival microbiota in adult Chinese: prevalence and relation to periodontal disease progression. Papapanou PN, et al. **J Periodontol** 1997 Jul;68(7):651–66

Enteric bacteria: friend or foe? Batt RM, et al. **J Small Anim Pract** 1996 Jun;37(6):261–7 (39 ref.)

Derivation of the Tsao-Hanson equation using a statistical

thermodynamic method [letter] Tan Y, et al. **J Theor Biol** 1997 Apr 21;185(4):549–51

In vitro activity of human milk against the causative organisms of ophthalmia neonatorum in Benin City, Nigeria. Ibhanesebhor SE, et al. **J Trop Pediatr** 1996 Dec; 42(6):327–9

Microbial physiology and ecology of slow growth. Koch AL. **Microbiol Mol Biol Rev** 1997 Sep;61(3):305–18 (112 ref.)

Bacterial growth inhibition by overproduction of protein. Kurland CG, et al. **Mol Microbiol** 1996 Jul;21(1):1–4 (25 ref.)

Ion permeability of the cytoplasmic membrane limits the maximum growth temperature of bacteria and archaea. van de Vossenberg JL, et al. **Mol Microbiol** 1995 Dec; 18(5):925–32

Effect of medicating ingredients and other additives on microflora present on swine and chicken feeds from a Manitoba mill. Mills JT, et al. **Mycopathologia** 1996; 135(1):21–7

Microbial growth inside saline–filled breast implants. Young VL, et al. **Plast Reconstr Surg** 1997 Jul;100(1):182–96

Inhibition of cytokine accumulation and bacterial growth during storage of platelet concentrates at 4 degrees C with retention of in vitro functional activity. Currie LM, et al. **Transfusion** 1997 Jan;37(1):18–24

Current status of microbial contamination of blood components: summary of a conference. Klein HG, et al. **Transfusion** 1997 Jan;37(1):95–101

Intercellular communication and group behavior in bacteria. Gray KM. **Trends Microbiol** 1997 May;5(5):184–8 (30 ref.)

Do bacteria need to communicate with each other for growth? Kaprelyants AS, et al. **Trends Microbiol** 1996 Jun; 4(6):237–42 (70 ref.)

[Experience with the use of a blood culture system for demonstration of clinically relevant bacteria in veterinary medicine diagnosis] Gareis M, et al. **Tierarztl Prax** 1996 Oct;24(5):419–25 (Eng. Abstr.) **(Ger)**

[Probiotics and functional food] Shendereov BA, et al. **Antibiot Khimioter** 1997;42(7):30–4 (13 ref.) **(Rus)**

[Nonculturable forms of bacteria and their role in the preservation of the causative agents of sapronotic infections in the environment] Gintsburg AL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):116–21 (36 ref.) **(Rus)**

IMMUNOLOGY

The effect of respiratory virus infection on expression of cell surface antigens associated with binding of potentially pathogenic bacteria. Elahmer OR, et al. **Adv Exp Med Biol** 1996;408:169–77 (26 ref.)

Chronic cutaneous bacterial hypersensitivity. Backman KS, et al. **Allergy Asthma Proc** 1996 May–Jun;17(3):137–42

Apoptosis of monocytes and prolonged survival of granulocytes as a result of phagocytosis of bacteria. Baran J, et al. **Infect Immun** 1996 Oct;64(10):4242–8

Monocyte chemoattractant protein 1 and interleukin–8 production in mononuclear cells stimulated by oral microorganisms. Jiang Y, et al. **Infect Immun** 1996 Nov; 64(11):4450–5

Bacterial immunotherapy in bronchial asthma. Oehling A. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):14–9 (33 ref.)

B–1 cells and their reactivity with the murine intestinal microflora. Kroese FG, et al. **Semin Immunol** 1996 Feb; 8(1):11–8 (52 ref.)

How do macrophages distinguish the living from the dead? Cheers C, et al. **Trends Microbiol** 1996 Nov;4(11):453–5 (28 ref.)

[The value of serological examination in detecting the etiological agents involved in causing reactive arthritis] Constantiniu S, et al. **Bacteriol Virusol Parazitol Epidemiol** 1996 Jan–Jun; 41(1–2):75–9 **(Rum)**

[The photometric determination of the antilysozyme activity of microorganisms] Bukharin OV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug; (4):117–20 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Efficiency of PAPNET in detecting infectious organisms in cervicovaginal smears. Ashfaq R, et al. **Acta Cytol** 1996 Sep–Oct;40(5):885–8

Isolation and identification of bacteria from activated sludge purifying petroleum wastewaters. Bieszkiewicz E, et al. **Acta Microbiol Pol** 1995;44(2):171–9

Isolation and identification of bacteria from petroleum derivatives contaminated soil. Lebkowska M, et al. **Acta Microbiol Pol** 1995;44(3–4):297–303

Microbiology of chronic maxillary sinusitis in adults: isolated aerobic and anaerobic bacteria and their susceptibility to twenty antibiotics. Hartog B, et al. **Acta Otolaryngol (Stockh)** 1995 Sep;115(5):672–7

Bacteria in middle ear effusions in children treated with tympanostomy; a 10–year series. Qvarnberg Y, et al. **Acta Otolaryngol (Stockh)** 1995 Sep;115(5):653–7

Microbial contamination of pharmacies and hospital wards environment and its influence on the purity of prescription preparations during their production process as well as their application. Zembrzuska–Sadkowska E. **Acta Pol Pharm** 1995 Jan–Feb;52(1):67–75

Cerebrospinal fluid broth culture isolates: their significance for antibiotic treatment. Sturgis CD, et al. **Am J Clin Pathol** 1997 Aug;108(2):217–21

Luminal antigliadin antibodies in small intestinal bacterial overgrowth. Riordan SM, et al. **Am J Gastroenterol** 1997 Aug;92(8):1335–8

Bacterial colonization of the vagina during pregnancy in four ethnic groups. Vaginal Infections and Prematurity Study Group. Goldenberg RL, et al. **Am J Obstet Gynecol** 1996 May;174(5):1618–21

Microbiologic factors and visual outcome in the Endophthalmitis Vitrectomy Study [letter; comment] Durand M. **Am J Ophthalmol** 1997 Jul;124(1):127–30. Comment on: Am J Ophthalmol 1996 Dec;122(6):830–46.

The value of routine microbial investigation in ventilator–associated pneumonia. Rello J, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):196–200

How does infected bile affect the postoperative course of patients undergoing laparoscopic cholecystectomy? Gold–Deutch R, et al. **Am J Surg** 1996 Sep;172(3):272–4

Bacteriologic studies of skin, tissue fluid, lymph, and lymph nodes in patients with filarial lymphedema. Olszewski WL, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):7–15

Advances in immunochemical detection of microorganisms. Hock B. **Ann Biol Clin (Paris)** 1996;54(6):243–52 (24 ref.)

Comparative evaluation of blood culture using the Vital automated system and the Becton–Dickinson Septi–Chek BHI–S biphasic and Sch bottles. Perez C, et al. **Ann Biol Clin (Paris)** 1996;54(3–4):159–63

Effect of bovine serum, hyaluronic acid and netilmicine on the in vitro adhesion of bacteria isolated from human–worn disposable soft contact lenses. Pustorino R, et al. **Ann Ig** 1996 Jul–Aug;8(4):469–75

Bacterial flora of stethoscopes' earpieces and otitis externa. Brook I. **Ann Otol Rhinol Laryngol** 1997 Sep;106(9):751–2

Advances in soil microbial ecology and the biodiversity. Hattori T, et al. **Antonie Van Leeuwenhoek** 1997 Jul; 72(1):21–8

Enrichment and isolation of a nitropropanol–metabolizing bacterium from the rumen. Anderson RC, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3885–6

Diversity and association of psychrophilic bacteria in Antarctic sea ice. Bowman JP, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3068–78

PCR–mediated detection of acidophilic, bioleaching–associated bacteria. De Wulf–Durand P, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2944–8

Isolation and molecular identification of planctomycete bacteria from postlarvae of the giant tiger prawn, Penaeus monodon. Fuerst JA, et al. **Appl Environ Microbiol** 1997 Jan;63(1):254–62

Identifying numerically abundant culturable bacteria from complex communities: an example from a lignin enrichment culture. González JM, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4433–40

Phylogenetic analysis of the bacterial communities in marine sediments. Gray JP, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4049–59

Bacterial diversity in Adirondack mountain lakes as revealed by 16S rRNA gene sequences. Hiorns WD, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2957–60

Separation of bacterial cells by isoelectric focusing, a new method for analysis of complex microbial communities. Jaspers E, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3176–81

Diverse uncultivated bacterial groups from soils of the arid southwestern United States that are present in many geographic regions. Kuske CR, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3614–21

Identification of bacterial cells by chromosomal painting. Lanoil BD, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):1118–23

Nitrate–reducing bacteria on rat tongues. Li H, et al. **Appl Environ Microbiol** 1997 Mar;63(3):924–30

A novel means to develop strain–specific DNA probes for detecting bacteria in the environment. Matheson VG, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2863–9

The nodular microsymbionts of Gymnostoma spp. are Elaeagnus–infective Frankia strains. Navarro E, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1610–6

Distribution of bacterioplankton in meromictic Lake Saelenvannet, as determined by denaturing gradient gel electrophoresis of PCR–amplified gene fragments coding for 16S rRNA. Ovreås L, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3367–73

Dominant marine bacterioplankton species found among colony–forming bacteria. Pinhassi J, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3359–66

Bacterial populations in samples of bioleached copper ore as revealed by analysis of DNA obtained before and after cultivation. Pizarro J, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1323–8

A simple method for quantification of uncultured microorganisms in the environment based on in vitro transcription of 16S rRNA. Polz MF, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1028–33

Distribution of bacterial populations in a stratified fjord (Mariager Fjord, Denmark) quantified by in situ hybridization and related to chemical gradients in the water column [published erratum appears in Appl Environ Microbiol 1996 Oct;62(10):3914] Ramsing NB, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1391–404

Development and application of 16S rRNA–targeted probes for detection of iron– and manganese–oxidizing sheathed bacteria in environmental samples. Siering PL, et al. **Appl Environ Microbiol** 1997 Feb;63(2):644–51

Distribution of sulfate–reducing bacteria in a stratified fjord (Mariager Fjord, Denmark) as evaluated by most–probable–number counts and denaturing gradient gel electrophoresis of PCR–amplified ribosomal DNA fragments. Teske A, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1405–15

Bacterial population dynamics in a meromictic lake. Tuomi P, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2181–8

Characterization of universal small–subunit rRNA hybridization probes for quantitative molecular microbial ecology studies. Zheng D, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4504–13

Management of intra–abdominal infections. The case for intraoperative cultures and comprehensive broad–spectrum antibiotic coverage. The Canadian Intra–abdominal Infection Study Group. Christou NV, et al. **Arch Surg** 1996 Nov;131(11):1193–201

Ocular microbiota and polymorphonuclear leucocyte recruitment during overnight contact lens wear. Stapleton F, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S33–5

Bacterial endosymbionts in the gills of the deep–sea wood–boring bivalves Xylophaga atlantica and Xylophaga washingtona. Distel DL, et al. **Biol Bull** 1997 Apr; 192(2):253–61

Simultaneous detection of microorganisms in soil suspension based on PCR amplification of bacterial 16S rRNA fragments. McGregor DP, et al. **Biotechniques** 1996 Sep; 21(3):463–6, 468, 470–1

Small intestinal myoelectrical activity and bacterial flora after Roux–en–Y reconstruction. Schippers E, et al. **Br J Surg** 1996 Sep;83(9):1271–5

Microbial spoilage of ostrich (Struthio camelus) eggs. Deeming DC. **Br Poult Sci** 1996 Jul;37(3):689–93

Isolation and characterization of chromium–resistant bacteria from tannery effluents. Basu M, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):535–42

Quantitative microbiology in the management of burn patients. I. Correlation between quantitative and qualitative burn wound biopsy culture and surface alginate swab culture. Steer JA, et al. **Burns** 1996 May;22(3):173–6

Quantitative microbiology in the management of burn patients. II. Relationship between bacterial counts obtained by burn wound biopsy culture and surface alginate swab culture, with clinical outcome following burn surgery and change of dressings. Steer JA, et al. **Burns** 1996 May; 22(3):177–81

Comparative study of five polycyclic aromatic hydrocarbon degrading bacterial strains isolated from contaminated soils. Dagher F, et al. **Can J Microbiol** 1997 Apr;43(4):368–77

Relevance of the use of rubber dam in microbiological sampling of carious dentine. Kidd EA, et al. **Caries Res** 1997;31(1):41–3

Human root caries: microbiota of a limited number of root caries lesions. Schüpbach P, et al. **Caries Res** 1996; 30(1):52–64

Association of athlete's foot with cellulitis of the lower extremities: diagnostic value of bacterial cultures of ipsilateral interdigital space samples. Semel JD, et al. **Clin Infect Dis** 1996 Nov;23(5):1162–4

Ocular flora of patients with AIDS compared with those of HIV–negative patients. Gritz DC, et al. **Cornea** 1997 Jul;16(4):400–5

Filamentous organisms in benign and malignant gastric cytology brushes [letter; comment] Beer TW. **Cytopathology** 1997 Feb;8(1):67. Comment on: Cytopathology 1996 Aug;7(4):268–73.

Filamentous organisms in benign and malignant gastric cytology brushings [see comments] Wilson CA, et al. **Cytopathology** 1996 Aug;7(4):268–73. Comment in: Cytopathology 1997 Feb;8(1):67.

Diabetic foot infections. Bacteriology and activity of 10 oral antimicrobial agents against bacteria isolated from consecutive cases. Goldstein EJ, et al. **Diabetes Care** 1996 Jun;19(6):638–41

The nasopharyngeal bacterial flora in children with otitis media with effusion [Eur Arch Otorhinolaryngol (1996) 253:260–263] [letter; comment] Fujimori I. **Eur Arch Otorhinolaryngol** 1997;254(2):113. Comment on: Eur Arch Otorhinolaryngol 1996;253(4–5):260–3.

Novel approach to investigate a source of microbial contamination of central venous catheters. Elliott TS, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):210–3

Surveillance of infections in hospital: agents and antibiotic–resistance. Riccardi F, et al. **Eur J Epidemiol** 1997 Feb;13(2):217–21

Plaque bacteria counts and vitality during chlorhexidine, meridol and listerine mouthrinses. Netuschil L, et al. **Eur J Oral Sci** 1995 Dec;103(6):355–61

Bacterial and clinical criteria relating to the outcome of patients undergoing in situ replacement of infected abdominal aortic grafts. Speziale F, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):127–33

Effect of sputum bacteriology on the quality of life of patients with bronchiectasis. Wilson CB, et al. **Eur Respir J** 1997 Aug;10(8):1754–60

Processing of semen in an antibiotic–rich culture medium to minimize microbial presence during in vitro fertilization. Cottell E, et al. **Fertil Steril** 1997 Jan;67(1):98–103

Biliary sepsis: an ascending infection. Bapat RD, et al. **Indian J Gastroenterol** 1996 Oct;15(4):126–8

Bacteriological patterns of chronic suppurative otitis media in Ludhiana. Greval RS, et al. **Indian J Med Sci** 1996 Jun; 50(6):192–5

C-reactive protein as an indicator of complications in bacterial meningitis. Singh UK, et al. **Indian Pediatr** 1996 May;33(5):373–6

Bacterial spoilage of meat and cured meat products. Borch E, et al. **Int J Food Microbiol** 1996 Nov;33(1):103–20 (64 ref.)

Influence of aging treatment on the bacterial quality of South African springbok (Antidorcas marsupialis marsupialis) wholesale cuts. Buys EM, et al. **Int J Food Microbiol** 1997 May 20;36(2–3):231–4

Main microbial flora present as natural starters in Cebreiro raw cow's-milk cheese (northwest Spain). Centeno JA, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):307–13

Pathogenic micro-organisms in slaughterhouse sludge--a survey. Fransen NG, et al. **Int J Food Microbiol** 1996 Dec; 33(2–3):245–56

Microbiological spoilage of fish and fish products. Gram L, et al. **Int J Food Microbiol** 1996 Nov;33(1):121–37 (69 ref.)

Specific spoilage organisms in breweries and laboratory media for their detection. Jespersen L, et al. **Int J Food Microbiol** 1996 Nov;33(1):139–55 (75 ref.)

Characterization and extracellular activity of psychrotrophic bacteria isolated from Villalón cheese (fresh variety of Spanish sheep's milk cheese). Santos JA, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):301–6

Microbiological evaluation of bottled uncarbonated mineral water in Taiwan. Tsai GJ, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):137–43

Reliability and practicability of bacteriological monitoring of beef carcass contamination and their rating within a hygiene quality control programme of abattoirs. Untermann F, et al. **Int J Food Microbiol** 1997 Jan; 34(1):67–77

Prevalence of thermophilic Campylobacter and Arcobacter butzleri in food of animal origin. Zanetti F, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):315–21

Tap water as a wound cleansing agent in accident and emergency. Riyat MS, et al. **J Accid Emerg Med** 1997 May; 14(3):165–6

Computer-aided comparison of protein electrophoretic patterns for grouping and identification of heterotrophic bacteria from mineral water. Ferreira AC, et al. **J Appl Bacteriol** 1996 May;80(5):479–86

Hemicellulose-degrading bacteria and yeasts from the termite gut. Schäfer A, et al. **J Appl Bacteriol** 1996 May;80(5):471–8

Analysis of cytotoxicity and invasiveness of heterotrophic plate count bacteria (HPC) isolated from drinking water on blood media. Edberg SC, et al. **J Appl Microbiol** 1997 Apr;82(4):455–61

Microbial contamination of hydrogel contact lenses. Gopinathan U, et al. **J Appl Microbiol** 1997 May; 82(5):653–8

Microbiological status of selected chicken carcases from a non-automated poultry processing plant. Olivier M, et al. **J Basic Microbiol** 1996;36(1):41–9

Contamination of bone allografts: analysis of incidence and predisposing factors. Deijkers RL, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):161–6

Evaluation of sinus-track cultures in chronic bone infection. Mousa HA. **J Bone Joint Surg Br** 1997 Jul;79(4):567–9

Incidence of enteropathogenic bacteria in children with gastroenteritis in Greece and their susceptibility pattern. Kouppari G, et al. **J Chemother** 1995 Nov;7 Suppl 4:147–9

Evaluation of cefpodoxime proxetil dry syrup in pediatric patients with various infections. Muranaka H, et al. **J Chemother** 1995 Nov;7 Suppl 4:127–30

Bacteriology of acute otitis media in a Greek pediatric population. Paraskaki I, et al. **J Chemother** 1995 Nov;7 Suppl 4:142–4

Improved detection of bacterial growth in continuous ambulatory peritoneal dialysis effluent by use of BacT/Alert FAN bottles. Alfa MJ, et al. **J Clin Microbiol** 1997 Apr;35(4):862–6

Comparison of Bactec 9240 and Difco ESP blood culture systems for detection of organisms from vials whose entry was delayed. Chapin K, et al. **J Clin Microbiol** 1996 Mar; 34(3):543–9

Molecular analysis of microflora associated with dentoalveolar abscesses. Dymock D, et al. **J Clin Microbiol** 1996 Mar;34(3):537–42

Assessment of routine use of an anaerobic bottle in a three-component, high-volume blood culture system. Hellinger WC, et al. **J Clin Microbiol** 1996 Oct; 34(10):2544–7

Clinical importance of increased sensitivity of BacT/Alert FAN aerobic and anaerobic blood culture bottles. McDonald LC, et al. **J Clin Microbiol** 1996 Sep; 34(9):2180–4

Application of 16S rRNA gene PCR to study bowel flora of preterm infants with and without necrotizing enterocolitis. Millar MR, et al. **J Clin Microbiol** 1996 Oct; 34(10):2506–10

Fecal lactoferrin screening assay for inflammatory bacterial diarrhea [letter; comment] Nachamkin I. **J Clin Microbiol** 1996 Sep;34(9):2337–8. Comment on: J Clin Microbiol 1996 Apr;34(4):928–32.

Diagnosis of triple-lumen catheter infection: comparison of roll plate, sonication, and flushing methodologies. Sherertz RJ, et al. **J Clin Microbiol** 1997 Mar;35(3):641–6

Clinical comparison of the isolator and BacT/Alert aerobic blood culture systems [letter] Wasilauskas BL, et al. **J Clin Microbiol** 1996 Mar;34(3):765

Prevalence of 6 putative periodontal pathogens in subgingival plaque samples from Romanian adult periodontitis patients. Ali RW, et al. **J Clin Periodontol** 1996 Feb;23(2):133–9

The effect of supragingival plaque control on the subgingival microflora in human periodontitis. Hellström MK, et al. **J Clin Periodontol** 1996 Oct;23(10):934–40

Dark field microscopy of the subgingival microflora in insulin-dependent diabetics. Seppää B, et al. **J Clin Periodontol** 1996 Feb;23(2):63–7

Reservoirs of nosocomial pathogens in neonatal intensive care unit. Chandrashekar MR, et al. **J Indian Med Assoc** 1997 Mar;95(3):72–4, 77

Tick cell culture isolation of an intracellular prokaryote from the tick Ixodes scapularis. Kurtti TJ, et al. **J Invertebr Pathol** 1996 May;67(3):318–21

Value of surveillance cultures in a bone marrow transplantation unit. Czirók E, et al. **J Med Microbiol** 1997 Sep;46(9):785–91

Pattern of metabolism and composition of the fecal microflora in infants 10 to 18 months old from day care centers. Guérin-Danan C, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):281–9

Vital microorganisms in early supragingival dental plaque and in stimulated human saliva. Weiger R, et al. **J Periodontal Res** 1997 Feb;32(2):233–40

Periodontal bacteria colonizing oral mucous membranes in edentulous patients wearing dental implants. Danser MM, et al. **J Periodontol** 1997 Mar;68(3):209–16

Throat microflora in breastfed and formula-fed infants. Hokama T, et al. **J Trop Pediatr** 1996 Dec;42(6):324–6

Infectious agents in acute respiratory disease in horses in Ontario. Carman S, et al. **J Vet Diagn Invest** 1997 Jan; 9(1):17–23

Comparison of the proportions of oral bacterial species in BALB/c mice from different suppliers. Rodrigue L, et al. **Lab Anim** 1996 Apr;30(2):108–13

Comparative study of a non-radiometric BACTEC system and a conventional blood culture system in a clinical microbiology laboratory. Yew OF, et al. **Malays J Pathol** 1995 Jun;17(1):11–5

The associated microflora to the larvae of human bot fly Dermatobia hominis L. Jr. (Diptera: Cuterebridae) and its furuncular lesions in cattle. Sancho E, et al. **Mem Inst Oswaldo Cruz** 1996 May-Jun;91(3):293–8

A modified PCR-based method for rapid non-radioactive detection of clinically important pathogens. Gorelov VN, et al. **Microbiol Immunol** 1996;40(9):611–6

Enumeration of bacterial and yeast colonists of apple fruits and identification of epiphytic yeasts on pear fruits in the Pacific Northwest United States. Chand-Goyal T, et al. **Microbiol Res** 1996 Dec;151(4):427–32

Applications of laser scanning microscopy for analysis of aquatic microhabitats. Ghiorse WC, et al. **Microsc Res Tech** 1996 Jan 1;33(1):73–86

Impact of molecular biology on the detection of foodborne pathogens. Feng P. **Mol Biotechnol** 1997 Jun;7(3):267–78 (49 ref.)

Quantification of the presence and activity of specific microorganisms in nature. Jansson JK, et al. **Mol Biotechnol** 1997 Apr;7(2):103–20 (88 ref.)

Use of gas chromatography-ion trap tandem mass spectrometry for the detection and characterization of microorganisms in complex samples. Larsson L, et al. **Mol Biotechnol** 1997 Jun;7(3):279–87 (33 ref.)

Detection of rRNA from four respiratory pathogens using an automated Q beta replicase assay. Stone BB, et al. **Mol Cell Probes** 1996 Oct;10(5):359–70

Antibiotic sensitivity of recent clinical isolates from patients with ocular infections. Ooishi M, et al. **Ophthalmologica** 1997;211 Suppl 1:15–24

Adenoid bacteriology and sinonasal symptoms in children. Lee D, et al. **Otolaryngol Head Neck Surg** 1997 Mar; 116(3):301–7

Dental disease, caries related microflora and salivary IgA of children with severe congenital cardiac disease: an epidemiological and oral microbial survey. Franco E, et al. **Pediatr Dent** 1996 May-Jun;18(3):228–35

Microbiology of nonbullous impetigo. Brook I, et al. **Pediatr Dermatol** 1997 May-Jun;14(3):192–5

Sensitivity and predictability of vitreous cytology, biopsy, and membrane filter culture in endophthalmitis. Sharma S, et al. **Retina** 1996;16(6):525–9

Technical problems related to in vitro study of colon flora. Ballongue J. **Scand J Gastroenterol Suppl** 1997;222:14–6

Continuous-monitoring blood culture screening system improves the detection of bacteremia in neutropenic patients. Kinnunen U, et al. **Scand J Infect Dis** 1996; 28(3):287–92

Life goes to extremes in the deep earth--and elsewhere? [news] Kerr RA. **Science** 1997 May 2;276(5313):703–4

Contamination risks from a high-speed bone burr. Schultz RB, et al. **Spine** 1996 Aug 1;21(15):1796–7

Evaluation of swirling, pH, and glucose tests for the detection of bacterial contamination in platelet concentrates. Wagner SJ, et al. **Transfusion** 1996 Nov-Dec;36(11–12):989–93

Small bowel flora and bacterial translocation in potential small bowel transplant donors. Muiesan P, et al. **Transplant Proc** 1996 Oct;28(5):2664–6

Bacterial translocation is enhanced in pig intestinal transplantation when the colon is included in the graft. Spada M, et al. **Transplant Proc** 1996 Oct;28(5):2658–9

Prevalence of microorganisms in dead mink kits from Aleutian-disease-infected and non-infected farms. Martino PE, et al. **Vet Res** 1996;27(6):607–12

Virus-like particles, bacteria and microsporidia affect spindle-associated membranes in spermatocytes of Lepidoptera species. Wolf KW. **Zygote** 1997 Feb;5(1):21–30

[Infectious agents and treatment of infertility with IVF and ET] Dostál J, et al. **Ceska Gynekol** 1996 Jun;61(3):144–7 (Eng. Abstr.) **(Cze)**

[Infectious diseases: current diagnostic methods] Vernazza PL, et al. **Schweiz Rundsch Med Prax** 1996 Oct 1; 85(40):1245–8 (Eng. Abstr.) **(Ger)**

[Federal investigations on the distribution and in vitro resistance of udder pathogenic bacteria in the milk of cows with subclinical mastitis] Sobiraj A, et al. **Tierarztl Prax** 1997 Apr;25(2):108–15 (Eng. Abstr.) **(Ger)**

[The restoration of the "Sistine Chapel". II: Microbiologic study of Michelangelo's "Last Judgement"] Montacutelli R, et al. **Ann Ig** 1997 Mar-Apr;9(2):143–51 **(Ita)**

[Studies on mineral waters bottled in glass, plastic and brick containers. 2. Development of total microbial flora] Signorile G, et al. **Ann Ig** 1997 Jan-Feb;9(1):15–22 **(Ita)**

[Bacteria isolated from surgical infections and its susceptibilities to antimicrobial agents. Special references to bacteria isolated between July 1994 and June 1995] Shinagawa N, et al. **Jpn J Antibiot** 1996 Sep;49(9):849–91 (Eng. Abstr.) **(Jpn)**

[Development of a new method to detect bacterial receptors by using TLC blotting and its application to the causative agents of oral infections] Isobe T, et al. **Kokubyo Gakkai Zasshi** 1997 Mar;64(1):158 **(Jpn)**

[Bacterial culture of the anterior chest skin for prophylaxis in cardiovascular operations: prospective study in two civilian hospitals] Sakakibara Y, et al. **Kyobu Geka** 1997 Jan;50(1):51–4 (Eng. Abstr.) **(Jpn)**

[Prospective study of the etiology of community-acquired pneumonia among patients in a general hospital] Ishida T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul; 34(7):759–64 (Eng. Abstr.) **(Jpn)**

[Bacterial endosymbiosis within the cytoplasm of Acanthamoeba lugdunensis isolated from a contact lens storage case] Chung DI, et al. **Korean J Parasitol** 1997 Jun;35(2):127–33 (Eng. Abstr.) **(Kor)**

[Floor cleaning methods of patients' room. Effect on bacteria, dirt and particles] Andersen BM, et al. **Tidsskr Nor Laegeforen** 1997 Feb 28;117(6):838–41 (Eng. Abstr.) **(Nor)**

[The prevalence of bacterial and fungal aerosol in homes, offices and ambient air of Upper Silesia. Preliminary results] Lis DO, et al. **Rocz Panstw Zakl Hig** 1997;48(1):59–68 (Eng. Abstr.) **(Pol)**

[Bacterial aerosol generated by mechanical ventilators: comparative study] Dias MD, et al. **Rev Assoc Med Bras** 1997 Jan-Mar;43(1):15–20 (Eng. Abstr.) **(Por)**

[The role of pathological process in the formation of variability of microbiological phenotype in human intestines] Vorob'ev AA, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):176–9 **(Rus)**

[Improvement of a portable device for isolation of bacteria from the air under study] Kotenok IaF, et al. **Gig Sanit** 1996 Jul-Aug;(4):50–2 **(Rus)**

[Microbiological contamination of fish in the delta of Volga] Lartseva LV, et al. **Gig Sanit** 1997 May-Jun;(3):24–6 (Eng. Abstr.) **(Rus)**

[Modified method of inoculation of hemocultures from patients with suppurative-septic diseases and typhoid-paratyphoid fever] Iskhakova KhI, et al. **Klin Lab Diagn** 1996 Sep-Oct;(5):41–3 (Eng. Abstr.) **(Rus)**

[Use of microtest systems for identification of newly isolated clinical strains] Savitskaia KI, et al. **Klin Lab Diagn** 1996 Sep-Oct;(5):29–35 (Eng. Abstr.) **(Rus)**

[A comparative study of the effectiveness of commercial microtest systems for identification of microorganisms of different groups in clinical microbiology] Skala LZ, et al. **Klin Lab Diagn** 1996 Sep-Oct;(5):35–9 (Eng. Abstr.) **(Rus)**

[Microbial associations in Trichomonas urethritis] al-Sanori TM. **Mikrobiol Z** 1996 Mar-Apr;58(2):64–9 (Eng. Abstr.) **(Rus)**

[The antagonistic properties of microaerophilic bacteria isolated from the human and mink digestive tracts] Sudenko VI, et al. **Mikrobiol Z** 1996 Sep-Oct;58(5):58–66 (Eng. Abstr.) **(Rus)**

[Role of dysbacteriosis in the development of surgical infection] Saitov MM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):17–9 (Eng. Abstr.) **(Rus)**

[The dynamics of the species composition, antilysozyme activity and antibiotic resistance of the causative agents of soft-tissue surgical infection] Bukharin OV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul-Aug;(4):51–4 (Eng. Abstr.) **(Rus)**

[The antilysosomal sign in the microbiological characterization of river algal-bacterial communities] Nemtseva NV, et al.

Zh Mikrobiol Epidemiol Immunobiol 1996 May-Jun; (3):93-6 (Eng. Abstr.) **(Rus)**
[Microbiological findings on Vikopres paste after functional impressions of the upper jaw] Teodosijević M, et al. **Vojnosanit Pregl** 1996 Jul-Aug;53(4):297-300 (Eng. Abstr.) **(Scr)**
[Yield of blood cultures in relation to the cultured blood volume in Bactec 6A bottles] Mensa J, et al. **Med Clin (Barc)** 1997 Apr 12;108(14):521-3 (Eng. Abstr.) **(Spa)**
[Bacterial contamination of platelet concentrates (letter)] Araújo F, et al. **Sangre (Barc)** 1996 Dec;41(6):483-4 **(Spa)**

METABOLISM

Iron and infection [editorial] Boelaert JR. **Acta Clin Belg** 1996;51(4):213-21 (54 ref.)
Biosynthesis of bacterial peptidoglycan. Kłoszewska M. **Acta Microbiol Pol** 1996;45(2):119-30 (17 ref.)
Oleaginous microorganisms: an assessment of the potential. Leman J. **Adv Appl Microbiol** 1997;43:195-243 (230 ref.)
Microbiological production of lactic acid. Litchfield JH. **Adv Appl Microbiol** 1996;42:45-95 (253 ref.)
Biodegradable polyesters. Sasikala C, et al. **Adv Appl Microbiol** 1996;42:97-218 (630 ref.)
Role of metabolic products produced by competitive exclusion cultures for the control of salmonellae in domestic poultry. Scanlan CM. **Adv Exp Med Biol** 1997; 412:435-6
Metal-microbe interactions: contemporary approaches. Beveridge TJ, et al. **Adv Microb Physiol** 1997;38:177-243 (220 ref.)
Bile acid metabolism by colonic bacteria in continuous culture: effects of starch and pH. Christl SU, et al. **Ann Nutr Metab** 1997;41(1):45-51
Protein transport across the eukaryotic endoplasmic reticulum and bacterial inner membranes. Rapoport TA, et al. **Annu Rev Biochem** 1996;65:271-303 (234 ref.)
Polyadenylation of mRNA in prokaryotes. Sarkar N. **Annu Rev Biochem** 1997;66:173-97 (117 ref.)
The beta-ketoadipate pathway and the biology of self-identity. Harwood CS, et al. **Annu Rev Microbiol** 1996; 50:553-90 (163 ref.)
Biosynthesis of halogenated metabolites by bacteria. van Pée KH. **Annu Rev Microbiol** 1996;50:375-99 (120 ref.)
Memories of microbes and metabolism. Broquist HP. **Annu Rev Nutr** 1997;17:1-18
Enzymatic method for inactivation of aminoglycosides during measurement of postantibiotic effect. den Hollander JG, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):488-90
Species selectivity of new siderophore-drug conjugates that use specific iron uptake for entry into bacteria. Diarra MS, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2610-7
Proceedings of the 5th Symposium on Lactic Acid Bacteria: Genetics, Metabolism and Applications. Veldhoven, The Netherlands, 8-12 September 1995. **Antonie Van Leeuwenhoek** 1996 Oct;70(2-4):97-358
Bacterial evolution and metabolism. Trevors JT. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):257-63 (35 ref.)
Evolution of bacterial genomes. Trevors JT. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):265-70 (28 ref.)
Bacterial evolution and silicon. Trevors JT. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):271-6 (33 ref.)
Metabolism of micro-organisms responsible for enhanced biological phosphorus removal from wastewater. Use of dynamic enrichment cultures. van Loosdrecht MC, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1-2):109-16 (34 ref.)
Transformation yields of chlorinated ethenes by a methanotrophic mixed culture expressing particulate methane monooxygenase. Anderson JE, et al. **Appl Environ Microbiol** 1997 Feb;63(2):687-93
Microbial dechlorination of historically present and freshly spiked chlorinated dioxins and diversity of dioxin-dechlorinating populations. Barkovskii AL, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4556-62
Morphological and metabolic responses to starvation by the dissimilatory metal-reducing bacterium Shewanella alga BrY. Caccavo F Jr, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4678-82
Evidence for production of paralytic shellfish toxins by bacteria associated with Alexandrium spp. (Dinophyta) in culture. Gallacher S, et al. **Appl Environ Microbiol** 1997 Jan;63(1):239-45
Characterization of the sediment bacterial community in groundwater discharge zones of an alkaline fen: a seasonal study. Gsell TC, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3111-8
In situ analysis of denitrifying toluene- and m-xylene-degrading bacteria in a diesel fuel-contaminated laboratory aquifer column. Hess A, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2136-41
Glucose transport by mixed ruminal bacteria from a cow. Kajikawa H, et al. **Appl Environ Microbiol** 1997 May; 63(5):1847-51
Pristine environments harbor a new group of oligotrophic 2,4-dichlorophenoxyacetic acid-degrading bacteria. Kamagata Y, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2266-72
Homology between genes for aromatic hydrocarbon degradation in surface and deep-subsurface Sphingomonas strains. Kim E, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1467-70
Phosphorus and bacterial growth in drinking water. Miettinen IT, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3242-5
Oxidation of 6,7-dihydro-5H-benzocycloheptene by bacterial strains expressing naphthalene dioxygenase, biphenyl dioxygenase, and toluene dioxygenase yields homochiral monol or cis-diol enantiomers as major products. Resnick SM, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1364-8
Molecular diversity of soil and marine 16S rRNA gene sequences related to beta-subgroup ammonia-oxidizing bacteria. Stephen JR, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4147-54
Distribution of sulfate-reducing bacteria in a stratified fjord (Mariager Fjord, Denmark) as evaluated by most-probable-number counts and denaturing gradient gel electrophoresis of PCR-amplified ribosomal DNA fragments. Teske A, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1405-15
Formation of dichloroacetic acid by rat and mouse gut microflora, an in vitro study. Moghaddam AP, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):639-45
N-acyl amino acid biosynthesis in marine bacterium, Deleya marina. Yagi H, et al. **Biochim Biophys Acta** 1997 Jul 19; 1336(1):28-32
Structure and function of 10Sa RNA: trans-translation system. Muto A, et al. **Biochimie** 1996;78(11-12):985-91 (41 ref.)
Acetogenic bacteria: what are the in situ consequences of their diverse metabolic versatilities? Drake HL, et al. **Biofactors** 1997;6(1):13-24 (46 ref.)
Microbial and plant metabolism of NO. Payne WJ, et al. **Biofactors** 1997;6(1):47-52 (49 ref.)
The proteasome: a macromolecular assembly designed to confine proteolysis to a nanocompartment. Baumeister W, et al. **Biol Chem** 1997 Mar-Apr;378(3-4):121-30 (92 ref.)
New insights into the mechanisms and importance of the proteasome in intracellular protein degradation. Goldberg AL, et al. **Biol Chem** 1997 Mar-Apr;378(3-4):131-40 (51 ref.)
Rapid purification of microtubule motor domain proteins expressed in bacteria. Song H, et al. **Biotechniques** 1997 Jan;22(1):82-5
The relationship between in vitro gas production, in vitro microbial biomass yield and 15N incorporation and its implications for the prediction of voluntary feed intake of roughages. Blümmel M, et al. **Br J Nutr** 1997 Jun; 77(6):911-21
Compared effects of three oligosaccharides on metabolism of intestinal microflora in rats inoculated with a human faecal flora. Djouzi Z, et al. **Br J Nutr** 1997 Aug; 78(2):313-24
Microbial amino acid synthesis and utilization in rats: incorporation of 15N from 15NH4Cl into lysine in the tissues of germ-free and conventional rats. Torrallardona D, et al. **Br J Nutr** 1996 Nov;76(5):689-700
Microbial amino acid synthesis and utilization in rats: the role of coprophagy. Torrallardona D, et al. **Br J Nutr** 1996 Nov;76(5):701-9
Evaluating median effective concentrations of chemicals with bioluminescent bacteria. Thomulka KW, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):446-52
Food fermentation: a safety and nutritional assessment. Joint FAO/WHO Workshop on Assessment of Fermentation as a Household Technology for Improving Food Safety. Motarjemi Y, et al. **Bull World Health Organ** 1996; 74(6):553-9
Bacterial biosynthesis of indole-3-acetic acid. Patten CL, et al. **Can J Microbiol** 1996 Mar;42(3):207-20 (104 ref.)
N-nitrosation of medicinal drugs catalysed by bacteria from human saliva and gastro-intestinal tract, including Helicobacter pylori. Ziebarth D, et al. **Carcinogenesis** 1997 Feb;18(2):383-9
Biotransformation of (-)-epicatechin 3-O-gallate by human intestinal bacteria. Meselhy MR, et al. **Chem Pharm Bull (Tokyo)** 1997 May;45(5):888-93
Antifungal attributes of lactic acid bacteria--a review. Batish VK, et al. **Crit Rev Biotechnol** 1997;17(3):209-25 (61 ref.)
Effect of some environmental factors on the content and composition of microbial membrane lipids. Sajbidor J. **Crit Rev Biotechnol** 1997;17(2):87-103 (112 ref.)
Expression in bacteria other than Escherichia coli. Billman-Jacobe H. **Curr Opin Biotechnol** 1996 Oct; 7(5):500-4 (52 ref.)
Regulation of bacterial responses to oxidative stress. Rosner JL, et al. **Curr Top Cell Regul** 1997;35:163-77 (66 ref.)
Influence of the energy relationships of organic compounds on their specificity toward aquatic organisms. Genoni GP. **Ecotoxicol Environ Saf** 1997 Mar;36(2):99-108
Functional effects of the bacterial insecticide Bacillus thuringiensis var. kurstaki on aquatic microbial communities. Kreutzweiser DP, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):271-80
Additivity in microbial toxicity of nonuniform mixtures of organic chemicals. Nirmalakhandan N, et al. **Ecotoxicol Environ Saf** 1997 Jun;37(1):97-102
Influence of microorganisms on the environmental fate of radionuclides. Gadd GM. **Endeavour** 1996;20(4):150-6 (50 ref.)
Distribution of a sub-class of bacterial ABC polar amino acid transporter and identification of an N-terminal region involved in solute specificity. Walshaw DL, et al. **FEBS Lett** 1997 Sep 8;414(2):397-401
Degradation of lactoferrin by periodontitis-associated bacteria. Alugupalli KR, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):209-14
Cyclic AMP-independent catabolite repression in bacteria. Saier MH Jr. **FEMS Microbiol Lett** 1996 May 1; 138(2-3):97-103 (26 ref.)
Methionine production by microorganisms. Mondal S, et al. **Folia Microbiol (Praha)** 1996;41(6):465-72 (73 ref.)
Effects of intestinal stasis on intercellular adhesion molecule 1 expression in the rat: role of enteric bacteria. Komatsu S, et al. **Gastroenterology** 1997 Jun;112(6):1971-8
Influence of dietary protein supplements on the formation of bacterial metabolites in the colon. Geypens B, et al. **Gut** 1997 Jul;41(1):70-6
Production of free amino acids by some earthworm-borne microorganisms. Joy EK, et al. **Hindustan Antibiot Bull** 1995 Feb-Nov;37(1-4):16-24
Microbial/host interactions in health and disease: who controls the cytokine network? Henderson B, et al. **Immunopharmacology** 1996 Oct;35(1):1-21 (126 ref.)
Guidelines for manuscripts on bacteriocins of lactic acid bacteria. Schillinger U, et al. **Int J Food Microbiol** 1996 Dec;33(2-3):iii-v
Microbial biotransformation products of cyclosporin A. Kuhnt M, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):781-7
Biosynthesis of bioactive microbial metabolites and its application to the structural studies and production of hybrid compounds. Nakagawa A, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):717-41 (135 ref.)
Digestive fates of soluble polysaccharides from marine macroalgae: involvement of the colonic microflora and physiological consequences for the host. Michel C, et al. **J Appl Bacteriol** 1996 Apr;80(4):349-69 (170 ref.)
Enumeration of human colonic bacteria producing phenolic and indolic compounds: effects of pH, carbohydrate availability and retention time on dissimilatory aromatic amino acid metabolism. Smith EA, et al. **J Appl Bacteriol** 1996 Sep;81(3):288-302
Evaluation of the Phene Plate generalized microplate for metabolic fingerprinting and for measuring fermentative capacity of mixed bacterial populations. Katouli M, et al. **J Appl Microbiol** 1997 Apr;82(4):511-8
Peptidoglycan as a barrier to transenvelope transport. Dijkstra AJ, et al. **J Bacteriol** 1996 Oct;178(19):5555-62 (102 ref.)
Isolation and characterization of a novel gamma-hexachlorocyclohexane-degrading bacterium. Thomas JC, et al. **J Bacteriol** 1996 Oct;178(20):6049-55
Hydrocortisone 17-butyrate degradation in the presence of micro-organisms. Rabouan-Guyon SM, et al. **J Clin Pharm Ther** 1997 Feb;22(1):53-9
Are ruminal bacteria armed with bacteriocins? Kalmokoff ML, et al. **J Dairy Sci** 1996 Dec;79(12):2297-306 (53 ref.)
Why are ruminal cellulolytic bacteria unable to digest cellulose at low pH? Russell JB, et al. **J Dairy Sci** 1996 Aug;79(8):1503-9 (55 ref.)
Why don't ruminal bacteria digest cellulose faster? Weimer PJ. **J Dairy Sci** 1996 Aug;79(8):1496-502 (45 ref.)
Homo bacteriens and a network of surprises [editorial] Henderson B, et al. **J Med Microbiol** 1996 Dec;45(6):393-4
Adaptation of rate of organic acid production of hindgut bacteria to chronic intake of galactooligosaccharide in the rat. Kikuchi-Hayakawa H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Jun;43(3):357-68
Pattern of metabolism and composition of the fecal microflora in infants 10 to 18 months old from day care centers. Guérin-Danan C, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):281-9
Bioavailability study of glycyrrhetic acid after oral administration of glycyrrhizin in rats; relevance to the intestinal bacterial hydrolysis. Takeda S, et al. **J Pharm Pharmacol** 1996 Sep;48(9):902-5
In-vivo assessment of extrahepatic metabolism of paeoniflorin in rats: relevance to intestinal floral metabolism. Takeda S, et al. **J Pharm Pharmacol** 1997 Jan; 49(1):35-9
Microbial transformation of mercury species and their importance in the biogeochemical cycle of mercury. Baldi F. **Met Ions Biol Syst** 1997;34:213-57 (187 ref.)
bacterial mercury-resistance genes. Hobman JL, et al. **Met Ions Biol Syst** 1997;34:527-68 (185 ref.)
Study of redox-regulated transcription factors in prokaryotes. Demple B. **Methods** 1997 Mar;11(3):267-78
Bacterial expression of anti-DNA antibody domains. Stollar BD. **Methods** 1997 Jan;11(1):12-9
Lipoteichoic acid as a target for antimicrobial action. Canepari P, et al. **Microb Drug Resist** 1996 Spring;2(1):85-9 (20 ref.)
Are S-layer glycoproteins and lipopolysaccharides related? Schäffer C, et al. **Microb Drug Resist** 1996 Spring; 2(1):17-23
Effects of chronic isoproterenol treatment or submandibular and sublingual ablation on microflora of mouse tooth surfaces. Maeda N, et al. **Microbiol Immunol** 1997; 41(7):513-7
Signal transduction and transcriptional and posttranscriptional control of iron-regulated genes in bacteria. Crosa JH. **Microbiol Mol Biol Rev** 1997 Sep; 61(3):319-36 (178 ref.)

Soil microorganisms as controllers of atmospheric trace gases (H2, CO, CH4, OCS, N2O, and NO). Conrad R. **Microbiol Rev** 1996 Dec;60(4):609–40 (602 ref.)
Bacterial scission of ether bonds. White GF, et al. **Microbiol Rev** 1996 Mar;60(1):216–32 (131 ref.)
Extracellular bacterial mineralization within the context of geomicrobiology. Ben Omar N, et al. **Microbiologia** 1997 Jun;13(2):161–72 (40 ref.)
Metabolism of methanesulfonic acid involves a multicomponent monooxygenase enzyme. Higgins TP, et al. **Microbiology** 1996 Feb;142 (Pt 2):251–60
Polyadenylation of mRNA in bacteria. Sarkar N. **Microbiology** 1996 Nov;142 (Pt 11):3125–33 (80 ref.)
Bacterial growth inhibition by overproduction of protein. Kurland CG, et al. **Mol Microbiol** 1996 Jul;21(1):1–4 (25 ref.)
Role of stoichiometry between mRNA, translation factor SelB and selenocysteyl–tRNA in selenoprotein synthesis. Tormay P, et al. **Mol Microbiol** 1996 Sep;21(6):1253–9
Evolution of the tryptophan biosynthetic pathway in Buchnera (aphid endosymbionts): studies of plasmid–associated trpEG within the genus Uroleucon. Rouhbakhsh D, et al. **Mol Phylogenet Evol** 1997 Oct; 8(2):167–76
Bacterial biocatalysis: stealing a page from nature's book [news] Wackett LP. **Nat Biotechnol** 1997 May;15(5):415–6
Microorganisms as an alternative source of protein. Kuhad RC, et al. **Nutr Rev** 1997 Mar;55(3):65–75 (60 ref.)
Effect of early nutritional deprivation and diet on translocation of bacteria from the gastrointestinal tract in the newborn rat. Steinwender G, et al. **Pediatr Res** 1996 Mar;39(3):415–20
Microbial secondary metabolites play important roles in medicine; prospects for discovery of new drugs. Bentley R. **Perspect Biol Med** 1997 Spring;40(3):364–94 (96 ref.)
Main ginseng saponin metabolites formed by intestinal bacteria. Hasegawa H, et al. **Planta Med** 1996 Oct; 62(5):453–7
Transport bicycles [comment] Karlin A. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5508–9 (23 ref.). Comment on: Proc Natl Acad Sci U S A 1997 May 27;94(11):5539–43.
Regulation of carbon metabolism in bacteria. Proceedings of the 14th Forum in Microbiology. **Res Microbiol** 1996 Jul–Sep;147(6–7):439–587
Coordination of carbon and nitrogen metabolism. Charbit A. **Res Microbiol** 1996 Jul–Sep;147(6–7):513–8 (30 ref.)
Role of alternate sigma factors in starvation protein synthesis—novel mechanisms of catabolite repression. Matin A. **Res Microbiol** 1996 Jul–Sep;147(6–7):494–505 (73 ref.)
Cra and the control of carbon flux via metabolic pathways. Ramseier TM. **Res Microbiol** 1996 Jul–Sep;147(6–7):489–93 (17 ref.)
Inducer exclusion and the regulation of sugar transport. Saier MH Jr, et al. **Res Microbiol** 1996 Jul–Sep;147(6–7):482–9 (55 ref.)
Regulatory interactions controlling carbon metabolism: an overview. Saier MH Jr. **Res Microbiol** 1996 Jul–Sep; 147(6–7):439–47 (36 ref.)
Catabolite repression: a story without end. Ullmann A. **Res Microbiol** 1996 Jul–Sep;147(6–7):455–8 (24 ref.)
Manipulation of colonic flora as ecosystem and metabolic organ: consequences for the organism. Proceedings of a workshop. Herdecke, Germany, June 1996. **Scand J Gastroenterol Suppl** 1997;222:1–114
Germ–free and conventional animal models for intestinal carbohydrate disposition. Midtvedt T. **Scand J Gastroenterol Suppl** 1997;222:25–7
Advances in microbial steroid biotransformation. Mahato SB, et al. **Steroids** 1997 Apr;62(4):332–45 (133 ref.)
Quorum sensing: a population–density component in the determination of bacterial phenotype. Swift S, et al. **Trends Biochem Sci** 1996 Jun;21(6):214–9
Selfish operons and speciation by gene transfer. Lawrence JG. **Trends Microbiol** 1997 Sep;5(9):355–9 (25 ref.)
Insights into the natural function of bacterial multidrug transporters. Poole RK. **Trends Microbiol** 1997 Sep;5(9):340
Probing bacterial gene expression within host cells. Valdivia RH, et al. **Trends Microbiol** 1997 Sep;5(9):360–3 (16 ref.)
Molecular mechanisms of action of bacterial exotoxins. Balfanz J, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):170–206 (226 ref.)
[Unusual pathways and environmentally regulated genes of bacterial heme biosynthesis] Jahn D, et al. **Naturwissenschaften** 1996 Sep;83(9):389–400 (67 ref.) (Eng. Abstr.) **(Ger)**
[Resistance to macrolides] Endou K, et al. **Nippon Rinsho** 1997 May;55(5):1238–44 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Bacterial resistance mechanisms for tetracyclines] Yamaguchi A. **Nippon Rinsho** 1997 May;55(5):1245–51 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Production of free bile acids by bacterial deconjugation from conjugated bile acids derived from peptone in a medium] Morotomi M, et al. **Nippon Saikingaku Zasshi** 1996 Oct; 51(4):1043–7 (3 ref.) (Eng. Abstr.) **(Jpn)**
[Iron uptake mechanisms of pathogenic bacteria] Yamamoto S, et al. **Nippon Saikingaku Zasshi** 1996 Feb;51(2):523–47 (210 ref.) **(Jpn)**
[Novel enzymes catalyzing trehalose formation] Tsusaki K, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(6):834–41 (42 ref.) **(Jpn)**
[Bacterial drug extruding antiporter] Yamaguchi A. **Tanpakushitsu Kakusan Koso** 1997 Jun;42(8):1253–62 (34 ref.) **(Jpn)**
[Participation of 2–C–methyl–D–erythritol–2,4–cyclopyrophosphate in reactions of bacteria on oxidative stress and their persistence in macrophages] Ogrel' OD, et al. **Biokhimiia** 1996 Jul;61(7):1294–302 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Interactions between the enteric pathogen and the host. An assortment of bacterial lectins and a set of glycoconjugate receptors. Mouricout M. **Adv Exp Med Biol** 1997; 412:109–23 (88 ref.)
Bacillary angiomatosis: a role for Phyllobacterium? [letter] Price DA, et al. **AIDS** 1997 Jul 15;11(9):1186–7
Interactions of Bacteria with Airway Cells and Secretions. Proceedings of the 11th Transatlantic Airway Conference. Lucerne, Switzerland, January 11–12, 1996. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S131–206
Microbial Pathogenesis and Immune Response II. Proceedings of a conference. New York, New York, October 25–28, 1995. **Ann N Y Acad Sci** 1996 Oct 25; 797:1–304
Genetic and tissue culture systems for the study of bacterial pathogenesis. Quinn FD, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:19–25 (27 ref.)
What happens in vivo to bacterial pathogens? Smith H. **Ann N Y Acad Sci** 1996 Oct 25;797:77–92 (90 ref.)
Pathogenic mechanisms induced by microbial proteases in microbial infections. Maeda H, et al. **Biol Chem Hoppe Seyler** 1996 Apr;377(4):217–26 (90 ref.)
Penetration of host cell lines by bacteria. Characteristics of the process of intracellular bacterial infection. Gálvez J, et al. **Bull Math Biol** 1997 Sep;59(5):857–79
How pathogens exploit interactions mediated by SH3 domains. Bliska J. **Chem Biol** 1996 Jan;3(1):7–11 (23 ref.)
Functions of bacterial flagella. Moens S, et al. **Crit Rev Microbiol** 1996;22(2):67–100 (282 ref.)
Paving the way for pathogens? Schauer DB. **Curr Biol** 1997 Feb 1;7(2):R75–7 (10 ref.)
The evolution and maintenance of virulence in microparasites. Levin BR. **Emerg Infect Dis** 1996 Apr–Jun; 2(2):93–102 (62 ref.)
Interactions of bacterial adhesins with extracellular matrix and plasma proteins: pathogenic implications and therapeutic possibilities. Ljungh A, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):117–26 (79 ref.)
Microbial adherence to and invasion through proteoglycans. Rostand KS, et al. **Infect Immun** 1997 Jan;65(1):1–8 (114 ref.)
The role of enteric bacteria in the pathogenesis of fatal cycloheximide intolerance in mice pretreated with dexamethasone, promethazine or nordihydroguaiaretic acid. Parry EW. **Inflamm Res** 1996 Jul;45(7):354–6
Relevance, pathogenicity and virulence of microorganisms in implant related infections. Printzen G. **Injury** 1996;27 Suppl 3:SC9–15 (37 ref.)
Analysis of cytotoxicity and invasiveness of heterotrophic plate count bacteria (HPC) isolated from drinking water on blood media. Edberg SC, et al. **J Appl Microbiol** 1997 Apr;82(4):455–61
Host/pathogen interactions. Subversion of the mammalian cell cytoskeleton by invasive bacteria. Cossart P. **J Clin Invest** 1997 May 15;99(10):2307–11 (18 ref.)
Role of intestinal epithelial cells in the host secretory response to infection by invasive bacteria. Bacterial entry induces epithelial prostaglandin h synthase–2 expression and prostaglandin E2 and F2alpha production. Eckmann L, et al. **J Clin Invest** 1997 Jul 15;100(2):296–309
Perspectives series: host/pathogen interactions. Invasion and intracellular sorting of bacteria: searching for bacterial genes expressed during host/pathogen interactions. Falkow S. **J Clin Invest** 1997 Jul 15;100(2):239–43 (30 ref.)
Regulation of bacterial virulence gene expression by the host environment. Guiney DG. **J Clin Invest** 1997 Feb 15; 99(4):565–9 (26 ref.)
Clinical manifestations, microbiology and prognosis of 42 patients with necrotizing fasciitis. Hung CC, et al. **J Formos Med Assoc** 1996 Dec;95(12):917–22
Are bacterial proteases important virulence factors? Lantz MS. **J Periodontal Res** 1997 Jan;32(1 Pt 2):126–32 (47 ref.)
Common themes in microbial pathogenicity revisited. Finlay BB, et al. **Microbiol Mol Biol Rev** 1997 Jun;61(2):136–69 (370 ref.)
Taxonomy and identification of periodontopathogenic bacteria and related species. Thaller MC, et al. **New Microbiol** 1997 Apr;20(2):161–76 (115 ref.)
Recurrent villitis of bacterial etiology. Redline RW. **Pediatr Pathol Lab Med** 1996 Nov–Dec;16(6):995–1001
Optimal killing for obligate killers: the evolution of life histories and virulence of semelparous parasites. Ebert D, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22; 264(1384):985–91
Exploitation of mammalian host cell functions by bacterial pathogens. Finlay BB, et al. **Science** 1997 May 2; 276(5313):718–25 (57 ref.)
Microbial pathogenesis: genomics and beyond. Strauss EJ, et al. **Science** 1997 May 2;276(5313):707–12 (29 ref.)
Contact with eukaryotic cells: a new signal triggering bacterial gene expression. Cornelis GR. **Trends Microbiol** 1997 Feb;5(2):43–4; discussion 44–5 (9 ref.)
Virulence and transmissibility of pathogens: what is the relationship? Lipsitch M, et al. **Trends Microbiol** 1997 Jan; 5(1):31–7 (69 ref.)
In search of virulence factors of human bacterial disease. Quinn FD, et al. **Trends Microbiol** 1997 Jan;5(1):20–6 (56 ref.)
Bacterial phospholipases and their role in virulence [see comments] Songer JG. **Trends Microbiol** 1997 Apr; 5(4):156–61 (65 ref.). Comment in: Trends Microbiol 1997 Jul;5(7):265.
[Dynamics of pathogenic genes of bacteria: horizontal gene transfer and and gene conversion] Nakayama K. **Fukuoka Igaku Zasshi** 1996 Aug;87(8):173–7 (4 ref.) **(Jpn)**
[Study on septicaemia in infants and children in the past 20 years. Part 1. An analysis of causal organisms] Sato T, et al. **Kansenshogaku Zasshi** 1996 Aug;70(8):775–83 (Eng. Abstr.) **(Jpn)**
[Iron uptake mechanisms of pathogenic bacteria] Yamamoto S, et al. **Nippon Saikingaku Zasshi** 1996 Feb;51(2):523–47 (210 ref.) **(Jpn)**
[The interrelations of mucosal epithelial cells with microbes—intracellular parasites] Domaradskii IV, et al. **Med Parazitol (Mosk)** 1996 Oct–Dec;(4):3–8 (53 ref.) (Eng. Abstr.) **(Rus)**
[A general analysis of the concepts about pathogenic and opportunistic bacteria] Bondarenko VM. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):20–6 (50 ref.) **(Rus)**
[The persistence of bacterial pathogens as a result of relationships in the parasite–host system] Bukharin OV. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):3–9 (38 ref.) **(Rus)**
[Bacterial virulence as a function of adaptation] Domaradskii IV. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug; (4):16–20 (38 ref.) **(Rus)**

PHYSIOLOGY

Bacterial cell division and the Z ring. Lutkenhaus J, et al. **Annu Rev Biochem** 1997;66:93–116 (105 ref.)
Bacterial biofilms and the bioelectric effect. Wellman N, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2012–4
Endosymbiotic interactions in anaerobic protozoa. Hackstein JH, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1–2):151–8 (52 ref.)
Clinical uses of probiotics for stabilizing the gut mucosal barrier: successful strains and future challenges. Salminen S, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):347–58 (90 ref.)
Use of potassium depletion to assess adaptation of ruminal bacteria to ionophores. Lana RP, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4499–503
Survival of selected bacteria and fungi in hypertonic (7.2%) saline. St Jean G, et al. **Aust Vet J** 1997 Feb;75(2):137–8
Bacterial cell surface carbohydrates: structure and assembly. Hancock IC. **Biochem Soc Trans** 1997 Feb;25(1):183–7 (40 ref.)
Glycoconjugate cross–talk in metastatic cancer cells, leucocytes, parasites and bacteria. Leroy A, et al. **Biochem Soc Trans** 1997 Feb;25(1):228–34 (48 ref.)
Torque generated by the bacterial flagellar motor close to stall. Berry RM, et al. **Biophys J** 1996 Dec;71(6):3501–10
Protein turbines. I: The bacterial flagellar motor. Elston TC, et al. **Biophys J** 1997 Aug;73(2):703–21
Mechanisms of oxygen taxis in bacteria. Grishanin RN, et al. **Biosci Rep** 1997 Feb;17(1):77–83 (28 ref.)
Microbial laser light scattering. Harding SE. **Biotechnol Genet Eng Rev** 1997;14:145–64 (93 ref.)
Mathematical modeling of adhesion of bacteria to host cell lines. Gálvez J, et al. **Bull Math Biol** 1997 Sep;59(5):833–56
Penetration of host cell lines by bacteria. Characteristics of the process of intracellular bacterial infection. Gálvez J, et al. **Bull Math Biol** 1997 Sep;59(5):857–79
Modulation of horizontal gene transfer in pathogenic bacteria by in vivo signals. Mel SF, et al. **Cell** 1996 Nov 29; 87(5):795–8 (16 ref.)
Bacterial cell division: the cycle of the ring. Rothfield LI, et al. **Cell** 1997 Mar 7;88(5):581–4 (20 ref.)
The role of intermittent enteral feeding in reducing gastric colonization in mechanically ventilated patients [letter; comment] Skiest DJ, et al. **Chest** 1997 May;111(5):1474–5 . Comment on: Chest 1996 Jul;110(1):243–8.
Functions of bacterial flagella. Moens S, et al. **Crit Rev Microbiol** 1996;22(2):67–100 (282 ref.)
Human oral microbial ecology and dental caries and periodontal diseases. Liljemark WF, et al. **Crit Rev Oral Biol Med** 1996;7(2):180–98 (196 ref.)
Paving the way for pathogens? Schauer DB. **Curr Biol** 1997 Feb 1;7(2):R75–7 (10 ref.)
Cisapride prevents enteric bacterial overgrowth and translocation by improvement of intestinal motility in rats with acute liver failure. Wang XD, et al. **Eur Surg Res** 1996;28(6):402–12
Oral bacteria inhibit Helicobacter pylori growth. Ishihara K, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):355–61
Functions of S–layers. Beveridge TJ, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):99–149
Inhibition of inducible nitric oxide synthase ameliorates endotoxin–induced gut mucosal barrier dysfunction in rats. Unno N, et al. **Gastroenterology** 1997 Oct;113(4):1246–57

BACTERIA

Microbial induced hemocytic immune reactions in chilopods. Nevermann L, et al. **In Vivo** 1996 Mar–Apr;10(2):161–7

Bacterial biofilms: resistance to antimicrobial agents. Gander S. **J Antimicrob Chemother** 1996 Jun;37(6):1047–50 (33 ref.)

Host/pathogen interactions. Subversion of the mammalian cell cytoskeleton by invasive bacteria. Cossart P. **J Clin Invest** 1997 May 15;99(10):2307–11 (18 ref.)

Assessment of swab transport systems for aerobic and anaerobic organism recovery. Perry JL. **J Clin Microbiol** 1997 May;35(5):1269–71

Why do many ruminal bacteria die and lyse so quickly? Wells JE, et al. **J Dairy Sci** 1996 Aug;79(8):1487–95 (97 ref.)

Evidence for symbiont-induced alteration of a host's gene expression: irreversible loss of SAM synthetase from Amoeba proteus. Choi JY, et al. **J Eukaryot Microbiol** 1997 Sep–Oct;44(5):412–9

Risk of microbial contamination with multiple use of 5-fluorouracil vials. Mora JS, et al. **J Glaucoma** 1996 Dec; 5(6):371–4

Effect of oral supplementation of lactobacilli on bacterial translocation in acute liver injury induced by D-galactosamine. Kasravi FB, et al. **J Hepatol** 1997 Feb; 26(2):417–24

The requirement of intestinal bacterial flora for the development of an IgE production system fully susceptible to oral tolerance induction. Sudo N, et al. **J Immunol** 1997 Aug 15;159(4):1739–45

The effect of oral commensal bacteria on candidal adhesion to human buccal epithelial cells in vitro. Nair RG, et al. **J Med Microbiol** 1996 Sep;45(3):179–85

Effects of oral flora on platelets: possible consequences in cardiovascular disease. Herzberg MC, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1138–42

Intraoral transmission and the colonization of oral hard surfaces. Quirynen M, et al. **J Periodontol** 1996 Oct; 67(10):986–93

The effects of vagotomy on bacterial translocation: an experimental study. Do M, et al. **J Surg Res** 1997 Aug; 71(2):166–71

A microscale model of bacterial swimming, chemotaxis and substrate transport. Dillon R, et al. **J Theor Biol** 1995 Dec 21;177(4):325–40

Tropism in bacterial infections: urinary tract infections. Roberts JA. **J Urol** 1996 Nov;156(5):1552–9 (84 ref.)

The N-terminal region of the luteovirus readthrough domain determines virus binding to Buchnera GroEL and is essential for virus persistence in the aphid. van den Heuvel JF, et al. **J Virol** 1997 Oct;71(10):7258–65

Promoters and basal transcription machinery in eubacteria and eukaryotes: concepts, definitions, and analogies. Fassler JS, et al. **Methods Enzymol** 1996;273:3–29 (248 ref.)

Analysis of two-component signal transduction systems involved in transcriptional regulation. Hakenbeck R, et al. **Methods Enzymol** 1996;273:281–300 (96 ref.)

The envelope in bacterial physiology and antibiotic action. Part II. Proceedings of a symposium. Verona, Italy, September 10–14, 1995. **Microb Drug Resist** 1996 Summer; 2(2):163–286

The envelope in bacterial physiology and antibiotic action. Part I. Proceedings of a symposium. Verona, Italy, September 10–14, 1995. To the memory of Professor Giuseppe Satta. **Microb Drug Resist** 1996 Spring;2(1):1–161

Bacterial walls, peptidoglycan hydrolases, autolysins, and autolysis. Shockman GD, et al. **Microb Drug Resist** 1996 Spring;2(1):95–8 (19 ref.)

Role of bacteria in the pathogenesis of short bowel syndrome-associated D-lactic acidemia. Bongaerts GP, et al. **Microb Pathog** 1997 May;22(5):285–93

Microbial production of surfactants and their commercial potential. Desai JD, et al. **Microbiol Mol Biol Rev** 1997 Mar;61(1):47–64 (271 ref.)

Fate and activity of microorganisms introduced into soil. van Veen JA, et al. **Microbiol Mol Biol Rev** 1997 Jun; 61(2):121–35 (173 ref.)

A microbiology investigation on probiotic pharmaceutical products used for human health. Canganella F, et al. **Microbiol Res** 1997 Jul;152(2):171–9

Microbial utilization of human signalling molecules. Virji M. **Microbiology** 1996 Dec;142 (Pt 12):3319–36 (107 ref.)

Influence of the culture medium on the inhibitory activity of Arthrinium strains. Larrondo J, et al. **Microbios** 1996; 87(350):39–42

Control of bacterial chemotaxis. Eisenbach M. **Mol Microbiol** 1996 Jun;20(5):903–10 (56 ref.)

Do bacteria sing? Sonic intercellular communication between bacteria may reflect electromagnetic intracellular communication involving coherent collective vibrational modes that could integrate enzyme activities and gene expression [letter] Norris V, et al. **Mol Microbiol** 1997 May; 24(4):879–80

Roles for motility in bacterial-host interactions. Ottemann KM, et al. **Mol Microbiol** 1997 Jun;24(6):1109–17 (71 ref.)

Robustness in simple biochemical networks [see comments] Barkai N, et al. **Nature** 1997 Jun 26;387(6636):913–7. Comment in: Nature 1997 Jun 26;387(6636):855, 857.

Theoretical biology. A robust view of biochemical pathways [news; comment] Hartwell L. **Nature** 1997 Jun 26; 387(6636):855, 857. Comment on: Nature 1997 Jun 26;387(6636):913–7.

A model of the transmission of antibiotic-resistant bacteria in the intensive care unit. Barza M. **New Horiz** 1996 Aug; 4(3):333–7 (29 ref.)

A new perspective in ocular infection and the role of antibiotics. Miyanaga Y. **Ophthalmologica** 1997;211 Suppl 1:9–14 (7 ref.)

A model of excitation and adaptation in bacterial chemotaxis. Spiro PA, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8; 94(14):7263–8

Human colonic microbiota: ecology, physiology and metabolic potential of intestinal bacteria. Macfarlane GT, et al. **Scand J Gastroenterol Suppl** 1997;222:3–9 (66 ref.)

The birth of complex cells. de Duve C. **Sci Am** 1996 Apr; 274(4):50–7

Why and how bacteria communicate. Losick R, et al. **Sci Am** 1997 Feb;276(2):68–73

Signaling in plant-microbe interactions. Baker B, et al. **Science** 1997 May 2;276(5313):726–33 (133 ref.)

Common themes amid diversity [editorial] Normark S, et al. **Science** 1997 May 2;276(5313):659

A molecular view of microbial diversity and the biosphere. Pace NR. **Science** 1997 May 2;276(5313):734–40 (52 ref.)

Microbiologists explore life's rich, hidden kingdoms [news] Service RF. **Science** 1997 Mar 21;275(5307):1740–2

The indigenous gastrointestinal microflora. Berg RD. **Trends Microbiol** 1996 Nov;4(11):430–5 (35 ref.)

Flexible response: DNA supercoiling, transcription and bacterial adaptation to environmental stress. Dorman CJ. **Trends Microbiol** 1996 Jun;4(6):214–6 (15 ref.)

Cytolysins and the intracellular life of bacteria. Goebel W, et al. **Trends Microbiol** 1997 Mar;5(3):86–8 (13 ref.)

Spinning tails: homologies among bacterial flagellar systems. Harshey RM, et al. **Trends Microbiol** 1996 Jun;4(6):226–31 (68 ref.)

Do bacteria need to communicate with each other for growth? Kaprelyants AS, et al. **Trends Microbiol** 1996 Jun; 4(6):237–42 (70 ref.)

Natural functions of bacterial multidrug transporters. Neyfakh AA. **Trends Microbiol** 1997 Aug;5(8):309–13 (41 ref.)

DNA supercoiling and bacterial adaptation: thermotolerance and thermoresistance. Tse-Dinh YC, et al. **Trends Microbiol** 1997 Aug;5(8):323–6 (36 ref.)

Potential contribution of optional urease-positive bacteria to idiopathic urinary calcium stone formation. I. Expression of urease activity in bacteria from the urinary tract that are commonly classified as urease-negative. Sabinski F, et al. **Urol Res** 1996;24(1):51–4

[Active efflux. A disquieting bacterial resistance phenomenon] Köhler T, et al. **Presse Med** 1997 Feb 15; 26(4):173–7 (23 ref.) **(Fre)**

[Analysis of the swimming pattern and the velocity of bacteria using video tracking method] Shigematsu M. **Fukuoka Igaku Zasshi** 1997 Apr;88(4):117–27 (Eng. Abstr.) **(Jpn)**

[The killing activity method in neutrophils] Kohsaka T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:204–9 (14 ref.) **(Jpn)**

[Adaptive responses and signal transduction in bacteria] Aiba H, et al. **Nippon Saikingaku Zasshi** 1996 Feb;51(2):549–57 (34 ref.) **(Jpn)**

[Bacterial adaptation to change in environmental pH] Kobayashi H. **Nippon Saikingaku Zasshi** 1996 Aug; 51(3):745–53 (36 ref.) **(Jpn)**

[Early stages of development of infectious process and two-faced role of normal microflora] Bondarenko VM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):7–10 (34 ref.) **(Rus)**

[Factors of intestinal microflora persistence in dysbacteriosis] Bukharin OV, et al. **Vestn Ross Akad Med Nauk** 1997; (3):19–22 (Eng. Abstr.) **(Rus)**

[Bacterial virulence as a function of adaptation] Domaradskiĭ IV. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug; (4):16–20 (38 ref.) **(Rus)**

[The problems of the adaptation of pathogenic bacteria to the environment] Domaradskiĭ IV. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):31–5 (52 ref.) **(Rus)**

RADIATION EFFECTS

[Novel utilization of antibiotics--a finding method of damaged parts in bacteria] Sawai J, et al. **Nippon Saikingaku Zasshi** 1996 Feb;51(2):589–99 (15 ref.) **(Jpn)**

[The effect of long-acting radiation on the diversity of heterotrophic bacteria in the soils of a 10-kilometer area around the Chernobyl Atomic Electric Power Station] Romanovskaia VA, et al. **Mikrobiol Z** 1996 Sep–Oct; 58(5):3–12 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Ultrastructure of colony-like communities of bacteria. Tetz VV, et al. **APMIS** 1997 Feb;105(2):99–107

By way of introduction: some constraints of the cell physics that are usually forgotten, but should be taken into account for in silico genome analysis. Danchin A. **Biochimie** 1996; 78(5):299–301

Applications of S-layers. Sleytr UB, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):151–75 (96 ref.)

Biotechnology and biomimetic with crystalline bacterial cell surface layers (S-layers). Sára M, et al. **Micron** 1996 Apr; 27(2):141–56 (113 ref.)

Epibiotic microorganisms on copepods and other marine crustaceans. Carman KR, et al. **Microsc Res Tech** 1997 Apr 15;37(2):116–35 (137 ref.)

Evidence for the microbial basis of a chemoautotrophic invertebrate community at a whale fall on the deep seafloor: bone-colonizing bacteria and invertebrate endosymbionts. Deming JW, et al. **Microsc Res Tech** 1997 Apr 15; 37(2):162–70

Alveus, gen. nov. (Bacillariaceae, Bacillariophyta), a heavily silicified diatom found in warm water oceans. Kaczmarska I, et al. **Microsc Res Tech** 1996 Jan 1;33(1):2–11

Electron microscopy studies on the a-bacteroids in the fat bodies of the lantern bug Pyrops candelaria Linn. (Homoptera: Fulgoridae). Wang JB, et al. **Parasitol Res** 1997;83(5):499–503

Molecular architecture of bacterial flagellum. Namba K, et al. **Q Rev Biophys** 1997 Feb;30(1):1–65 (185 ref.)

The birth of complex cells. de Duve C. **Sci Am** 1996 Apr; 274(4):50–7

Bacteria in biopsies of human hypochlorhydric stomach: a scanning electron microscopy study. Brandi G, et al. **Ultrastruct Pathol** 1996 May–Jun;20(3):203–9

[An application of the atomic force microscopy technique to observe microorganisms] Fukushima S, et al. **Nippon Saikingaku Zasshi** 1996 Feb;51(2):621–6 (7 ref.) **(Jpn)**

BACTERIA, AEROBIC

Aerobic bacteria isolated from blood cultures of patients and their antibiotic susceptibilities in Harare, Zimbabwe. Obi CL, et al. **Cent Afr J Med** 1996 Dec;42(12):332–6

Antibiotic susceptibility in aerobic gram-negative bacilli isolated in intensive care units in 39 French teaching hospitals (ICU study). Jarlier V, et al. **Intensive Care Med** 1996 Oct;22(10):1057–65

Biofilms associated with poultry processing equipment. Lindsay D, et al. **Microbios** 1996;86(347):105–16

[The action of bacterial antagonists on the aerobic microflora of human skin] Klymniuk SI, et al. **Mikrobiol Z** 1997 Jan–Feb;59(1):53–60 (Eng. Abstr.) **(Ukr)**

CHEMISTRY

Expression, purification, crystallization, and preliminary X-ray diffraction analysis of the homodimeric bacterial hemoglobin from Vitreoscilla stercoraria. Tarricone C, et al. **Proteins** 1997 Jan;27(1):154–6

CLASSIFICATION

Nomenclature for aerobic and facultative bacteria. Bruckner DA, et al. **Clin Infect Dis** 1997 Jul;25(1):1–10

Porphyrobacter tepidarius sp. nov., a moderately thermophilic aerobic photosynthetic bacterium isolated from a hot spring. Hanada S, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):408–13

Rhodothermus obamensis sp. nov., a modern lineage of extremely thermophilic marine bacteria. Sako Y, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):1099–104

Thermonema rossianum sp. nov., a new thermophilic and slightly halophilic species from saline hot springs in Naples, Italy. Tenreiro S, et al. **Int J Syst Bacteriol** 1997 Jan; 47(1):122–6

DRUG EFFECTS

In vitro evaluation of activities of nitazoxanide and tizoxanide against anaerobes and aerobic organisms. Dubreuil L, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2266–70

In vitro activity of Bay 12-8039, a new 8-methoxyquinolone, compared to the activities of 11 other oral antimicrobial agents against 390 aerobic and anaerobic bacteria isolated from human and animal bite wound skin and soft tissue infections in humans. Goldstein EJ, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1552–7

Comparative in vitro activities of DU-6859a, levofloxacin, ofloxacin, sparfloxacin, and ciprofloxacin against 387 aerobic and anaerobic bite wound isolates. Goldstein EJ, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1193–5

Susceptibilities of bovine summer mastitis bacteria to antimicrobial agents. Jousimies-Somer H, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):157–60

Effects of carbon dioxide on the fate of Listeria monocytogenes, of aerobic bacteria and on the development of spoilage in minimally processed fresh endive. Carlin F, et al. **Int J Food Microbiol** 1996 Sep; 32(1–2):159–72

In-vitro activity of trovafloxacin against sensitive and resistant aerobic bacteria using the standard microdilution broth method and Etest. Dembry LM, et al. **J Antimicrob Chemother** 1997 Jun;39 Suppl B:35–42

[The study of drug resistance in aerobic and anaerobic bacterial flora to selected antibacterial drugs] Michalska W, et al. **Med Dosw Mikrobiol** 1996;48(1–2):61–70 (Eng. Abstr.) **(Pol)**

[Ten-year experience with the use of ofloxacin in reconstructive surgery] Bogomolova NS, et al. **Antibiot Khimioter** 1996;41(9):68–72 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Aldehyde dehydrogenase activity and acetate production by aerobic bacteria representing the normal flora of human large intestine. Nosova T, et al. **Alcohol Alcohol** 1996 Nov; 31(6):555–64

In vitro alcohol dehydrogenase-mediated acetaldehyde production by aerobic bacteria representing the normal colonic flora in man. Jokelainen K, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):967–72

Characteristics of alcohol dehydrogenases of certain aerobic bacteria representing human colonic flora. Nosova T, et al. **Alcohol Clin Exp Res** 1997 May;21(3):489–94

Purification and characterization of pyruvate:ferredoxin oxidoreductase from Hydrogenobacter thermophilus TK-6. Yoon KS, et al. **Arch Microbiol** 1997 May; 167(5):275–9

Extremely thermostable phosphoenolpyruvate carboxylase from an extreme thermophile, Rhodothermus obamensis. Takai K, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):32–40

GENETICS

Denaturing gradient gel electrophoresis used to monitor the enrichment culture of aerobic chemoorganotrophic bacteria from a hot spring cyanobacterial mat. Santegoeds CM, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3922–8

GROWTH & DEVELOPMENT

Biodiversity within hot spring microbial mat communities: molecular monitoring of enrichment cultures. Ward DM, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1–2):143–50

Evaluation of nutritive capacities of 10 broth media. Scythes KD, et al. **J Clin Microbiol** 1996 Jul;34(7):1804–7

Intestinal bacterial overgrowth and bacterial translocation in cirrhotic rats with ascites. Guarner C, et al. **J Hepatol** 1997 Jun;26(6):1372–8

Relationship between aerobic bacteria, salmonellae and Campylobacter on broiler carcasses. Cason JA, et al. **Poult Sci** 1997 Jul;76(7):1037–41

IMMUNOLOGY

Alteration of a polyclonal to an oligoclonal immune response to cecal aerobic bacterial antigens in TCR alpha mutant mice with inflammatory bowel disease. Mizoguchi A, et al. **Int Immunol** 1996 Sep;8(9):1387–94

ISOLATION & PURIFICATION

Investigation of normal bacterial flora in the upper respiratory tract. Tanaka I, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:44–50

Vaginal pH as a marker for bacterial pathogens and menopausal status. Caillouette JC, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1270–5; discussion 1275–7

Bacteriology of ethmoid sinus in chronic sinusitis. Jiang RS, et al. **Am J Rhinol** 1997 Mar–Apr;11(2):133–7

Laboratory reference values for a group of captive Ball Pythons (Python regius) [see comments] Johnson JH, et al. **Am J Vet Res** 1996 Sep;57(9):1304–7. Comment in: Am J Vet Res 1996 Oct;57(10):1409.

Cultivation of aerobic chemoorganotrophic proteobacteria and gram-positive bacteria from a hot spring microbial mat. Nold SC, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):3917–21

Denaturing gradient gel electrophoresis used to monitor the enrichment culture of aerobic chemoorganotrophic bacteria from a hot spring cyanobacterial mat. Santegoeds CM, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3922–8

A survey of sixty turkey flocks exhibiting hepatic foci taken at time of processing. Norton RA, et al. **Avian Dis** 1996 Apr–Jun;40(2):466–72

Role of aerobic and anaerobic bacteria in pacemaker infections. Brook I, et al. **Clin Infect Dis** 1997 May; 24(5):1010–2

Amniotic fluid gram stain and leukocyte count in the prediction of intrauterine infection in preterm prelabour amniorrhexis. Carroll SG, et al. **Fetal Diagn Ther** 1996 Jan–Feb;11(1):1–5

Microbiology of infected atopic dermatitis. Brook I, et al. **Int J Dermatol** 1996 Nov;35(11):791–3

Porphyrobacter tepidarius sp. nov., a moderately thermophilic aerobic photosynthetic bacterium isolated from a hot spring. Hanada S, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):408–13

A study of the microflora of some recycled fibre pulps, boards and kitchen rolls. Suihko ML, et al. **J Appl Microbiol** 1997 Aug;83(2):199–207

Clinical comparison of BACTEC 9240 plus aerobic/F resin bottles and the isolator aerobic culture system for detection of bloodstream infections. Cockerill FR 3rd, et al. **J Clin Microbiol** 1997 Jun;35(6):1469–72

Microbiologic and clinical value of primary broth cultures of wound specimens collected with swabs. Silletti RP, et al. **J Clin Microbiol** 1997 Aug;35(8):2003–6

Bacterial colonization of pacifiers of infants with acute otitis media. Brook I, et al. **J Laryngol Otol** 1997 Jul;111(7):614–5

Bacteriology of the adult middle meatus. Klossek JM, et al. **J Laryngol Otol** 1996 Sep;110(9):847–9

Microbiology of the transition from acute to chronic maxillary sinusitis. Brook I, et al. **J Med Microbiol** 1996 Nov;45(5):372–5

Microbiology of chronic maxillary sinusitis: comparison between specimens obtained by sinus endoscopy and by surgical drainage. Brook I, et al. **J Med Microbiol** 1997 May;46(5):430–2

Aerobic and anaerobic microbiology of necrotizing fasciitis in children. Brook I. **Pediatr Dermatol** 1996 Jul–Aug; 13(4):281–4

Studies on samh seeds (Mesembryanthemum forsskalei Hochst) growing in Saudi Arabia: 2: Chemical composition and microflora of samh seeds. Al-Jassir MS, et al. **Plant Foods Hum Nutr** 1995 Oct;48(3):185–92

The effect of refrigerated and frozen storage on populations of mesophilic and coliform bacteria on fresh broiler chicken carcasses. Russell SM. **Poult Sci** 1995 Dec;74(12):2057–60

Bacteriology of antrum in children with chronic maxillary sinusitis. Erkan M, et al. **Scand J Infect Dis** 1996; 28(3):283–5

The bacterial flora of the genitourinary tract in healthy fertile men. Willén M, et al. **Scand J Urol Nephrol** 1996 Oct; 30(5):387–93

Influence of different protocols of antibiotic prophylaxis on endoluminal bacterial overgrowth and translocation following small-bowel or combined liver-small-bowel transplantation in a large-animal model. Privitera G, et al. **Transplant Proc** 1997 May;29(3):1826–8

Faecal microflora and urease activity during the first six months of infancy. George M, et al. **Ups J Med Sci** 1996; 101(3):233–50

[Aerobic and anaerobic bacterial flora in acute abdominal illnesses] Michalska W, et al. **Med Dosw Mikrobiol** 1995; 47(3–4):197–202 (Eng. Abstr.) **(Pol)**

METABOLISM

Evolution of novel metabolic pathways for the degradation of chloroaromatic compounds. van der Meer JR. **Antonie Van Leeuwenhoek** 1997 Feb;71(1–2):159–78 (170 ref.)

Changes in the size and composition of intracellular pools of nonesterified coenzyme A and coenzyme A thioesters in aerobic and facultatively anaerobic bacteria. Chohnan S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):553–60

Recalcitrance of 1,1-dichloro-2,2-bis(p-chlorophenyl)ethylene (DDE) to cometabolic degradation by pure cultures of aerobic and anaerobic bacteria. Megharaj M, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):141–6

Biological treatment of dye wastewaters using an anaerobic-oxic system. An H, et al. **Chemosphere** 1996 Dec; 33(12):2533–42

The ISO Headspace CO2 Biodegradation Test. Battersby NS. **Chemosphere** 1997 Apr;34(8):1813–22

Biodegradation of sucrose poly fatty acid esters in soils. Figge K, et al. **Chemosphere** 1997 Jun;34(12):2621–36

Formation of organic cadmium by marine microorganisms. Yannai S, et al. **Ecotoxicol Environ Saf** 1995 Dec; 32(3):209–14

Effect of fibre on bile acid metabolism by human faecal bacteria in batch and continuous culture. Fadden K, et al. **Eur J Cancer Prev** 1997 Apr;6(2):175–94

Acetylene degradation by new isolates of aerobic bacteria and comparison of acetylene hydratase enzymes. Rosner BM, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):175–80

Degradation of dimeric lignin model compounds by aerobic bacteria isolated from the hindgut of xylophagous termites. Kuhnigk T, et al. **J Basic Microbiol** 1997;37(3):205–11

Melatonin production in an aerobic photosynthetic bacterium: an evolutionarily early association with darkness. Tilden AR, et al. **J Pineal Res** 1997 Mar; 22(2):102–6

BACTERIA, ANAEROBIC

Incrimination of anaerobic bacteria in the induction of experimental colitis. García-Lafuente A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G10–5

The Art of Anaerobes Conference. Athens, Georgia, USA, August 15–16, 1996. Abstracts. **Biofactors** 1997;6(1):53–81

A study of the anaerobic bacterial flora of the female genital tract in health and disease. Egwari L, et al. **Cent Afr J Med** 1995 Dec;41(12):391–7

Present studies of therapy for anaerobic infections. Finegold SM, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S9–14 (9 ref.)

Anaerobic bacteremia. Goldstein EJ. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S97–101 (43 ref.)

Possible role for the new fluoroquinolones (levofloxacin, grepafloxacin, trovafloxacin, clinafloxacin, sparfloxacin, and DU-6859a) in the treatment of anaerobic infections: review of current information on efficacy and safety. Goldstein EJ. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S25–30 (41 ref.)

Detection of anaerobic odontogenic infections by fluorine-18 fluoromisonidazole. Liu RS, et al. **Eur J Nucl Med** 1996 Oct;23(10):1384–7

Anaerobic flora in endodontic infections. Chaudhry R, et al. **Indian J Med Res** 1997 Jun;105:262–5

Pericoronitis as a cause of tonsillitis [see comments] Niessen LC. **Lancet** 1996 Dec 14;348(9042):1602–3. Comment in: Lancet 1997 Mar 1;349(9052):652–3.

Effect of oxygen, inoculum composition and flow rate on development of mixed-culture oral biofilms. Bradshaw DJ, et al. **Microbiology** 1996 Mar;142 (Pt 3):623–9

Development of a steady-state oral microbial biofilm community using the constant-depth film fermenter. Kinniment SL, et al. **Microbiology** 1996 Mar;142 (Pt 3):631–8

Bloodstream infections due to anaerobic bacteria in cancer patients: epidemiology, etiology, risk factors, clinical presentation and outcome of anaerobic bacteremia. Spánik S, et al. **Neoplasma** 1996;43(4):235–8

[Anaerobic surgical infection and septic shock] Iarümov N, et al. **Khirurgiia (Sofiia)** 1996;49(6):19–22 (Eng. Abstr.) **(Bul)**

[Anaerobic infections of the soft tissues] Mathieu D, et al. **Ann Chir** 1997;51(3):272–87 (120 ref.) (Eng. Abstr.) **(Fre)**

[Refractory endophthalmitis after bulbus perforation after careless handling of orthodontic headgear] Kammann MT, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):337–8 (Eng. Abstr.) **(Ger)**

[Anaerobic bacteria as the cause of endogenous infections] Briedigkeit H, et al. **Z Arztl Fortbild Qualitatssich** 1997 Mar;91(2):165–70 (20 ref.) (Eng. Abstr.) **(Ger)**

[Single-dose administration in the treatment with penicillin G (PG) and metronidazole (Me) in primary pulmonary abscesses (a preliminary study)] Chiotan D, et al. **Pneumoftiziologia** 1997 Jan–Mar;46(1):29–34 (Eng. Abstr.) **(Rum)**

[Local treatment in anaerobic infections of soft tissues] Tamm TI. **Klin Khir** 1996;(5):5–7 **(Rus)**

[Craniofacial subcutaneous emphysema] Serrat Soto A, et al. **Rev Clin Esp** 1996 Dec;196(12):857–8 **(Spa)**

CLASSIFICATION

Molecular microbial diversity of an anaerobic digestor as determined by small-subunit rDNA sequence analysis. Godon JJ, et al. **Appl Environ Microbiol** 1997 Jul; 63(7):2802–13

Novel anaerobic ultramicrobacteria belonging to the Verrucomicrobiales lineage of bacterial descent isolated by dilution culture from anoxic rice paddy soil. Janssen PH, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1382–8

Microbiology terminology update: clinically significant anaerobic gram-positive and gram-negative bacteria (excluding spirochetes). Jousimies-Somer H, et al. **Clin Infect Dis** 1997 Jul;25(1):11–4

Thermobrachium celere gen. nov., sp. nov., a rapidly growing thermophilic, alkalitolerant, and proteolytic obligate anaerobe. Engle M, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):1025–33

Phylogenetic positions of Desulfofustis glycolicus gen. nov., sp. nov., and Syntrophobotulus glycolicus gen. nov., sp. nov., two new strict anaerobes growing with glycolic acid. Friedrich M, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):1065–9

Chrysiogenes arsenatis gen. nov., sp. nov., a new arsenate-respiring bacterium isolated from gold mine wastewater. Macy JM, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):1153–7

Dethiosulfovibrio peptidovorans gen. nov., sp. nov., a new anaerobic, slightly halophilic, thiosulfate-reducing bacterium from corroding offshore oil wells. Magot M, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):818–24

Anaerobiospirillum thomasii sp. nov., an anaerobic spiral bacterium isolated from the feces of cats and dogs and from diarrheal feces of humans, and emendation of the genus Anaerobiospirillum. Malnick H. **Int J Syst Bacteriol** 1997 Apr;47(2):381–4

Anaerobaculum thermoterrenum gen. nov., sp. nov., a novel, thermophilic bacterium which ferments citrate. Rees GN, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):150–4

Thermoterrabacterium ferrireducens gen. nov., sp. nov., a thermophilic anaerobic dissimilatory Fe(III)-reducing bacterium from a continental hot spring. Slobodkin A, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):541–7

Caloramator proteoclasticus sp. nov., a new moderately thermophilic anaerobic proteolytic bacterium. Tarlera S, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):651–6

Comparison of BBL Crystal ANR ID Kit and API rapid ID 32 A for identification of anaerobic bacteria. Moll WM, et al. **Zentralbl Bakteriol** 1996 Jul;284(2–3):329–47

DRUG EFFECTS

Comparison of the in vitro activities of Bay 12–8039, a new quinolone, and other antimicrobials against clinically important anaerobes. Aldridge KE, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):709–11

Comparative in vitro activities of trovafloxacin (CP 99,219) and other antimicrobials against clinically significant anaerobes. Aldridge KE, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):484–7

In vitro evaluation of activities of nitazoxanide and tizoxanide against anaerobes and aerobic organisms. Dubreuil L, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2266–70

Antianaerobic activity of the ketolide RU 64004 compared to activities of four macrolides, five beta-lactams, clindamycin, and metronidazole. Ednie LM, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1037–41

Comparative in vitro activities of DU-6859a, levofloxacin, ofloxacin, sparfloxacin, and ciprofloxacin against 387 aerobic and anaerobic bite wound isolates. Goldstein EJ, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1193–5

In vitro activity of Bay 12–8039, a new 8-methoxyquinolone, compared to the activities of 11 other oral antimicrobial agents against 390 aerobic and anaerobic bacteria isolated from human and animal bite wound skin and soft tissue infections in humans. Goldstein EJ, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1552–7

Susceptibilities of bovine summer mastitis bacteria to antimicrobial agents. Jousimies-Somer H, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):157–60

Bactericidal activity of DU–6859a compared to activities of three quinolones, three beta-lactams, clindamycin, and metronidazole against anaerobes as determined by time–kill methodology. Spangler SK, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):847–9

In vitro activities of trovafloxacin against 557 strains of anaerobic bacteria. Wexler HM, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2232–5

In vitro activity of BAY 12–8039, a new fluoroquinolone. Woodcock JM, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):101–6

New fluoroquinolones and anaerobic infections. Symposium proceedings. San Juan, Puerto Rico, November 1995. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S1–106

In vitro susceptibility of anaerobes to quinolones in the United States. Hecht DW, et al. **Clin Infect Dis** 1996 Dec; 23 Suppl 1:S2–8

Comparison of activities of trovafloxacin (CP–99,219) and five other agents against 585 anaerobes with use of three media. Hecht DW, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S44–50

Comparison of in vitro activities of DU–6859a and other fluoroquinolones against Japanese isolates of anaerobic bacteria. Kato N, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S31–5

Emerging resistance of anaerobic bacteria to antimicrobial agents in South Korea. Lee K, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S73–7

In vitro activity of quinolones and other antimicrobial agents against anaerobic bacteria. Nord CE. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S15–8

Comparative in vitro activity of meropenem versus other extended-spectrum antimicrobials against randomly chosen and selected resistant clinical isolates tested in 26 North American centers. Pitkin DH, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S238–48

Antimicrobial resistance in anaerobes. Rasmussen BA, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S110–20 (123 ref.)

Resistance gene transfer in anaerobes: new insights, new problems. Salyers AA, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S36–43 (35 ref.)

False resistance to metronidazole by E-test among anaerobic bacteria investigations of contributing test conditions and medium quality [letter] Cormican MG, et al. **Diagn Microbiol Infect Dis** 1996 Feb;24(2):117–9

Methods of measuring susceptibility of anaerobic bacteria to trovafloxacin, including quality control parameters. Barry AL, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug; 15(8):676–8

Organisms isolated from dogs and cats with anaerobic infections and susceptibility to selected antimicrobial agents. Jang SS, et al. **J Am Vet Med Assoc** 1997 Jun 1; 210(11):1610–4

A comparison of susceptibility results of the Bacteroides fragilis group and other anaerobes by traditional MIC results and statistical methods. Aldridge KE, et al. **J Antimicrob Chemother** 1997 Mar;39(3):319–24

Anaerobic activity of levofloxacin and metronidazole separately and in combination [letter] Barry AL, et al. **J Antimicrob Chemother** 1996 Jun;37(6):1178–9

The in-vitro activity of trovafloxacin and nine other antimicrobials against 413 anaerobic bacteria. Bowker KE, et al. **J Antimicrob Chemother** 1996 Aug;38(2):271–81

Beta-lactam resistance in anaerobic bacteria: a review. Hedberg M, et al. **J Chemother** 1996 Feb;8(1):3–16 (109 ref.)

Development of resistance to metronidazole and minocycline in vitro. Larsen T, et al. **J Clin Periodontol** 1997 Apr; 24(4):254–9

Antimicrobial susceptibility tests on anaerobic oral mixed cultures in periodontal diseases. Pacini N, et al. **J Clin Periodontol** 1997 Jun;24(6):401–9

Azithromycin in the treatment of periodontal disease. Effect on microbial flora. Sefton AM, et al. **J Clin Periodontol** 1996 Nov;23(11):998–1003

Studies on stannous fluoride toothpaste and gel (1). Antimicrobial properties and staining potential in vitro. Wade W, et al. **J Clin Periodontol** 1997 Feb;24(2):81–5

Effects of cellobiose and monensin on in vitro fermentation of organic acids by mixed ruminal bacteria. Callaway TR, et al. **J Dairy Sci** 1997 Jun;80(6):1126–35

Effect of use of 0.05% cetylpyridinium chloride mouthwash on normal oral flora. Radford JR, et al. **J Dent** 1997 Jan; 25(1):35–40

The substantivity of a number of oral hygiene products determined by the duration of effects on salivary bacteria. Elworthy A, et al. **J Periodontol** 1996 Jun;67(6):572–6

In vitro susceptibilities of selected obligate anaerobic bacteria obtained from ,bovine and equine sources to ceftiofur. Samitz EM, et al. **J Vet Diagn Invest** 1996 Jan;8(1):121–3

[Intraabdominal polymicrobial infection due to antimicrobial resistant anaerobes] Watanabe K, et al. **Nippon Geka Gakkai Zasshi** 1996 Dec;97(12):1036–41 (7 ref.) (Eng. Abstr.) **(Jpn)**

[The study of drug resistance in aerobic and anaerobic bacterial flora to selected antibacterial drugs] Michalska W, et al. **Med Dosw Mikrobiol** 1996;48(1–2):61–70 (Eng. Abstr.) **(Pol)**

[Ten-year experience with the use of ofloxacin in reconstructive surgery] Bogomolova NS, et al. **Antibiot Khimioter** 1996;41(9):68–72 (Eng. Abstr.) **(Rus)**

[The comparative characteristics of the antibacterial activity of new antiseptics and the prospects for their use in dental practice] Dmitrieva LA, et al. **Stomatologiia (Mosk)** 1997; 76(2):26–7 (Eng. Abstr.) **(Rus)**

[Effect of ultrasonic aerosol treatment of wounds on the anaerobic microflora of purulent maxillofacial foci] Shulakov VV, et al. **Vestn Ross Akad Med Nauk** 1996; (8):22–6 (Eng. Abstr.) **(Rus)**

[Antibiotic sensitivity of anaerobic bacteria isolated during one year (1993)] Durán MT, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):370–6 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Evidence for acetyl coenzyme A and cinnamoyl coenzyme A in the anaerobic toluene mineralization pathway in Azoarcus tolulyticus Tol-4. Chee-Sanford JC, et al. **Appl Environ Microbiol** 1996 Mar;62(3):964–73

Cloning, sequencing, and overexpression of the Anaerobiospirillum succiniciproducens phosphoenolpyruvate carboxykinase (pckA) gene. Laivenieks M, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2273–80

Purification and characterization of phosphoenolpyruvate carboxykinase from the anaerobic ruminal bacterium Ruminococcus flavefaciens. Schöcke L, et al. **Arch Microbiol** 1997 May;167(5):289–94

Biophysical and mutagenic analysis of Thermoanaerobacter ethanolicus secondary-alcohol dehydrogenase activity and specificity. Burdette DS, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):717–24

Anaerobic dehalogenases. Wohlfarth G, et al. **Curr Opin Biotechnol** 1997 Jun;8(3):290–5 (41 ref.)

Anaerobic metabolism of aromatic compounds. Heider J, et al. **Eur J Biochem** 1997 Feb 1;243(3):577–96 (174 ref.)

Subunit c from the sodium-ion-translocating F1F0-ATPase of Propionigenium modestum--production, purification and properties of the protein in dodecylsulfate solution. Matthey U, et al. **Eur J Biochem** 1997 Aug 1;247(3):820–5

Re-face stereospecificity at C4 of NAD(P) for alcohol dehydrogenase from Methanogenium organophilum and for (R)-2-hydroxyglutarate dehydrogenase from Acidaminococcus fermentans as determined by 1H-NMR spectroscopy. Berk H, et al. **FEBS Lett** 1996 Dec 9; 399(1–2):92–4

Redox chemistry of cobalamin and iron-sulfur cofactors in the tetrachloroethene reductase of Dehalobacter restrictus. Schumacher W, et al. **FEBS Lett** 1997 Jun 16;409(3):421–5

Purification and cloning of a thermostable xylose (glucose) isomerase with an acidic pH optimum from Thermoanaerobacterium strain JW/SL-YS 489. Liu SY, et al. **J Bacteriol** 1996 Oct;178(20):5938–45

Quaternary structure, Mg2+ interactions, and some kinetic properties of the beta-galactosidase from Thermoanaerobacterium thermosulfurigenes EM1. Huber RE, et al. **J Protein Chem** 1996 Oct;15(7):621–9

The [Ni-Fe] hydrogenase from the thermophilic bacterium Acetomicrobium flavidum. Mura GM, et al. **Microbiology** 1996 Apr;142 (Pt 4):829–36

Intestinal anaerobic bacteria hydrolyse sorivudine, producing the high blood concentration of 5-(E)-(2-bromovinyl)uracil that increases the level and toxicity of 5-fluorouracil. Nakayama H, et al. **Pharmacogenetics** 1997 Feb;7(1):35–43

Thermoanaerobacter brockii alcohol dehydrogenase: characterization of the active site metal and its ligand amino acids. Bogin O, et al. **Protein Sci** 1997 Feb;6(2):450–8

Cysteine reactivity in Thermoanaerobacter brockii alcohol dehydrogenase. Peretz M, et al. **Protein Sci** 1997 May; 6(5):1074–83

[Cloning and expression of the gene for thermostable beta-galactosidase from Thermoanaerobacter ethanolicus in Escherichia coli: purification and properties of the product] Fokina NA, et al. **Mol Gen Mikrobiol Virusol** 1997;(2):34–6 (Eng. Abstr.) **(Rus)**

GENETICS

Clostridium thermocellum JW20 (ATCC 31549) is a coculture with Thermoanaerobacter ethanolicus. Erbeznik M, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2949–51

Molecular microbial diversity of an anaerobic digestor as determined by small-subunit rDNA sequence analysis. Godon JJ, et al. **Appl Environ Microbiol** 1997 Jul; 63(7):2802–13

Cloning, sequencing, and overexpression of the Anaerobiospirillum succiniciproducens phosphoenolpyruvate carboxykinase (pckA) gene. Laivenieks M, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2273–80

PCR detection and quantitation of predominant anaerobic bacteria in human and animal fecal samples. Wang RF, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1242–7

An endo-beta-1,4-glucanase gene (celA) from the rumen anaerobe Ruminococcus albus 8: cloning, sequencing, and transcriptional analysis. Attwood GT, et al. **Can J Microbiol** 1996 Mar;42(3):267–78

Resistance gene transfer in anaerobes: new insights, new problems. Salyers AA, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S36–43 (35 ref.)

Sequencing, cloning and expression of a beta-1,4-mannanase gene, manA, from the extremely thermophilic anaerobic bacterium, Caldicellulosiruptor Rt8B.4. Gibbs MD, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):37–43

Dockerin-like sequences in cellulases and xylanases from the rumen cellulolytic bacterium Ruminococcus flavefaciens. Kirby J, et al. **FEMS Microbiol Lett** 1997 Apr 15; 149(2):213–9

Caloramator proteoclasticus sp. nov., a new moderately thermophilic anaerobic proteolytic bacterium. Tarlera S, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):651–6

Isolation, analysis, and expression of two genes from Thermoanaerobacterium sp. strain JW/SL YS485: a beta-xylosidase and a novel acetyl xylan esterase with cephalosporin C deacetylase activity. Lorenz WW, et al. **J Bacteriol** 1997 Sep;179(17):5436–41

GROWTH & DEVELOPMENT

Evaluation of the AnaeroPack system for growth of clinically significant anaerobes. Delaney ML, et al. **J Clin Microbiol** 1997 Mar;35(3):558–62

Continuous monitoring of oxygen concentrations in several systems for cultivation of anaerobic bacteria. Imhof A, et al. **J Clin Microbiol** 1996 Jul;34(7):1646–8

Evaluation of nutritive capacities of 10 broth media. Scythes KD, et al. **J Clin Microbiol** 1996 Jul;34(7):1804–7

Evaluation of the AnaeroPack system for growth of anaerobic bacteria. Van Horn KG, et al. **J Clin Microbiol** 1997 Aug;35(8):2170–3

Protein degradation by Prevotella intermedia and Actinomyces meyeri supports the growth of non-protein-cleaving oral bacteria in serum. Jansen HJ, et al. **J Clin Periodontol** 1997 May;24(5):346–53

IMMUNOLOGY

Immune response to anaerobic bacteria in patients with peritonsillar cellulitis and abscess. Brook I, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):888–91

ISOLATION & PURIFICATION

Effects of viral and bacterial infection on nasal and sinus mucosa. van Cauwenberge P, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):316–21 (25 ref.)

Intrauterine bacterial findings and hormonal profiles in post-partum cows with normal puerperium. Bekana M, et al. **Acta Vet Scand** 1996;37(3):251–63

Bacteriology of ethmoid sinus in chronic sinusitis. Jiang RS, et al. **Am J Rhinol** 1997 Mar-Apr;11(2):133–7

Evaluation of systems for anaerobe identification. Sessa R, et al. **Ann Ig** 1996 Sep-Oct;8(5):565–71 (32 ref.)

Anaerobes and fungi in chronic suppurative otitis media. Ibekwe AO, et al. **Ann Otol Rhinol Laryngol** 1997 Aug; 106(8):649–52

Characterization of microbial communities in anaerobic bioreactors using molecular probes. Raskin L, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):297–308

Isolation and characterization of a novel toluene-degrading, sulfate-reducing bacterium. Beller HR, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1188–96

Clostridium thermocellum JW20 (ATCC 31549) is a coculture with Thermoanaerobacter ethanolicus. Erbeznik M, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2949–51

PCR detection and quantitation of predominant anaerobic bacteria in human and animal fecal samples. Wang RF, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1242–7

A survey of sixty turkey flocks exhibiting hepatic foci taken at time of processing. Norton RA, et al. **Avian Dis** 1996 Apr-Jun;40(2):466–72

Bacteriology of lacrimal duct obstruction in adults. Hartikainen J, et al. **Br J Ophthalmol** 1997 Jan;81(1):37–40

Role of aerobic and anaerobic bacteria in pacemaker infections. Brook I, et al. **Clin Infect Dis** 1997 May; 24(5):1010–2

Analysis of 281,797 consecutive blood cultures performed over an eight-year period: trends in microorganisms isolated and the value of anaerobic culture of blood. Cockerill FR 3rd, et al. **Clin Infect Dis** 1997 Mar; 24(3):403–18

Incidence of anaerobic infections among patients with pulmonary diseases: Japanese experience with transtracheal aspiration and immediate bedside anaerobic inoculation. Kato T, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S87–96

First reported African case of Anaerobiospirillum succiniciproducens septicemia. Marcus L, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):741–4 (12 ref.)

Electrophoresis of whole-cell soluble proteins of microorganisms isolated from bacteremias in endodontic therapy. Debelian GJ, et al. **Eur J Oral Sci** 1996 Oct-Dec; 104(5–6):540–6

Amniotic fluid gram stain and leukocyte count in the prediction of intrauterine infection in preterm prelabour amniorrhexis. Carroll SG, et al. **Fetal Diagn Ther** 1996 Jan-Feb;11(1):1–5

Anaerobes in ejaculates of subfertile men. Eggert-Kruse W, et al. **Hum Reprod Update** 1995 Sep;1(5):462–78

Microbiology of infected atopic dermatitis. Brook I, et al. **Int J Dermatol** 1996 Nov;35(11):791–3

Anaerobiospirillum thomasii sp. nov., an anaerobic spiral bacterium isolated from the feces of cats and dogs and from diarrheal feces of humans, and emendation of the genus

Anaerobiospirillum. Malnick H. **Int J Syst Bacteriol** 1997 Apr;47(2):381–4

A study of the microflora of some recycled fibre pulps, boards and kitchen rolls. Suihko ML, et al. **J Appl Microbiol** 1997 Aug;83(2):199–207

Microbiologic and clinical value of primary broth cultures of wound specimens collected with swabs. Silletti RP, et al. **J Clin Microbiol** 1997 Aug;35(8):2003–6

Bacteriology of the adult middle meatus. Klossek JM, et al. **J Laryngol Otol** 1996 Sep;110(9):847–9

Microbiology of chronic maxillary sinusitis: comparison between specimens obtained by sinus endoscopy and by surgical drainage. Brook I, et al. **J Med Microbiol** 1997 May;46(5):430–2

Microbiology of the transition from acute to chronic maxillary sinusitis. Brook I, et al. **J Med Microbiol** 1996 Nov;45(5):372–5

Anaerobes in neonatal septicaemia: a cause for concern. Mitra S, et al. **J Trop Pediatr** 1997 Jun;43(3):153–5

Anaerobic culture yield in interventional radiologic drainage procedures. Malden ES, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):933–7

Aerobic and anaerobic microbiology of necrotizing fasciitis in children. Brook I. **Pediatr Dermatol** 1996 Jul–Aug; 13(4):281–4

Aerobic and anaerobic microbiology of bacterial tracheitis in children. Brook I. **Pediatr Emerg Care** 1997 Feb; 13(1):16–8

16S ribosomal RNA–targeted oligonucleotide probes for monitoring of intestinal tract bacteria. Welling GW, et al. **Scand J Gastroenterol Suppl** 1997;222:17–9

Bacteriology of antrum in children with chronic maxillary sinusitis. Erkan M, et al. **Scand J Infect Dis** 1996; 28(3):283–5

The bacterial flora of the genitourinary tract in healthy fertile men. Willén M, et al. **Scand J Urol Nephrol** 1996 Oct; 30(5):387–93

Influence of different protocols of antibiotic prophylaxis on endoluminal bacterial overgrowth and translocation following small-bowel or combined liver–small-bowel transplantation in a large-animal model. Privitera G, et al. **Transplant Proc** 1997 May;29(3):1826–8

Faecal microflora and urease activity during the first six months of infancy. George M, et al. **Ups J Med Sci** 1996; 101(3):233–50

Isolation and antimicrobial susceptibility of obligate anaerobic bacteria recovered from the uteri of dairy cows with retained fetal membranes and postparturient endometritis. Cohen RO, et al. **Zentralbl Veterinarmed [B]** 1996 Jun;43(4):193–9

[Airborne microorganisms in animal stables. 1. Anaerobic airborne bacteria in a calf stable with special regard to Clostridium perfringens] Chai T, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jan;110(1):1–4 (Eng. Abstr.) **(Ger)**

[Occurrence of non-spore forming anaerobic bacteria in the upper airways of patients with chronic obstructive pulmonary disease] Jassem E, et al. **Med Dosw Mikrobiol** 1996;48(1–2):49–54 (Eng. Abstr.) **(Pol)**

[Aerobic and anaerobic bacterial flora in acute abdominal illnesses] Michalska W, et al. **Med Dosw Mikrobiol** 1995; 47(3–4):197–202 (Eng. Abstr.) **(Pol)**

[Improvement of microbiological diagnosis of dysbacteriosis] Raevskiĭ KK, et al. **Vestn Ross Akad Med Nauk** 1997; (3):13–6 (11 ref.) (Eng. Abstr.) **(Rus)**

[Anaerobic bacteria in chronic otitis media] Kapidžić A, et al. **Med Arh** 1995;49(1–2):27–9 (Eng. Abstr.) **(Scr)**

[Bacteremia caused by Anaerobiospirillum succiniciproducens associated with paralytic ileus (letter)] Saavedra JM, et al. **Enferm Infecc Microbiol Clin** 1996 Oct; 14(8):513 **(Spa)**

METABOLISM

Extremely thermophilic cellulolytic anaerobes from Icelandic hot springs. Bredholt S, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):263–71

Granulation in thermophilic upflow anaerobic sludge blanket (UASB) reactors. Schmidt JE, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):339–44

Sulfate reduction by a syntrophic propionate-oxidizing bacterium. Van Kuijk BL, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):293–6

Isolation and characterization of a novel toluene-degrading, sulfate-reducing bacterium. Beller HR, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1188–96

Introduction of anaerobic dechlorinating bacteria into soil slurry microcosms and nested-PCR monitoring. el Fantroussi S, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):806–11

Benzylfumaric, benzylmaleic, and Z- and E-phenylitaconic acids: synthesis, characterization, and correlation with a metabolite generated by Azoarcus tolulyticus Tol–4 during anaerobic toluene degradation. Migaud ME, et al. **Appl Environ Microbiol** 1996 Mar;62(3):974–8

Characterization of Desulfitobacterium chlororespirans sp. nov., which grows by coupling the oxidation of lactate to the reductive dechlorination of 3-chloro-4-hydroxybenzoate. Sanford RA, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3800–8

Recalcitrance of 1,1-dichloro-2,2-bis(p-chlorophenyl)ethylene (DDE) to cometabolic degradation by pure cultures of aerobic and anaerobic bacteria. Megharaj M, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):141–6

Biological treatment of dye wastewaters using an anaerobic–oxic system. An H, et al. **Chemosphere** 1996 Dec; 33(12):2533–42

Formation of organic cadmium by marine microorganisms. Yannai S, et al. **Ecotoxicol Environ Saf** 1995 Dec; 32(3):209–14

Anaerobic metabolism of aromatic compounds. Heider J, et al. **Eur J Biochem** 1997 Feb 1;243(3):577–96 (174 ref.)

Effect of fibre on bile acid metabolism by human faecal bacteria in batch and continuous culture. Fadden K, et al. **Eur J Cancer Prev** 1997 Apr;6(2):175–94

Isolation and characterization of Desulfitobacterium frappieri sp. nov., an anaerobic bacterium which reductively dechlorinates pentachlorophenol to 3-chlorophenol. Bouchard B, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):1010–5

Deferribacter thermophilus gen. nov., sp. nov., a novel thermophilic manganese- and iron-reducing bacterium isolated from a petroleum reservoir. Greene AC, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):505–9

Thermoterrabacterium ferrireducens gen. nov., sp. nov., a thermophilic anaerobic dissimilatory Fe(III)-reducing bacterium from a continental hot spring. Slobodkin A, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):541–7

Thermosyntropha lipolytica gen. nov., sp. nov., a lipolytic, anaerobic, alkalitolerant, thermophilic bacterium utilizing short- and long-chain fatty acids in syntrophic coculture with a methanogenic archaeum. Svetlitshnyi V, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):1131–7

In vitro inhibition of microbial methane production by 9,10-anthraquinone. Garcia-Lopez PM, et al. **J Anim Sci** 1996 Sep;74(9):2276–84

Initial reactions in anaerobic ethylbenzene oxidation by a denitrifying bacterium, strain EB1. Ball HA, et al. **J Bacteriol** 1996 Oct;178(19):5755–61

Shedding light on anaerobic benzene ring degradation: a process unique to prokaryotes? Harwood CS, et al. **J Bacteriol** 1997 Jan;179(2):301–9 (63 ref.)

Hydrolysis of triclosan monophosphate by dental plaque and selected species of oral micro-organisms. Greenman J, et al. **J Dent Res** 1996 Aug;75(8):1578–84

Binding of extracellular matrix proteins to the surface of anaerobic bacteria. Sröke I, et al. **J Med Microbiol** 1996 Nov;45(5):338–43

[The correlation between an increase in subgingival temperature and the concentration of volatile fatty acids of bacterial origin present in periodontal pockets] Eftimiadi C, et al. **Minerva Stomatol** 1996 May;45(5):189–96 (Eng. Abstr.) **(Ita)**

PATHOGENICITY

5 alpha reductase activity in human gingiva and gingival fibroblasts in response to bacterial culture supernatants, using [14C]4-androstenedione as substrate. Soory M, et al. **Arch Oral Biol** 1997 Apr;42(4):255–62

Microbiology of periapical abscesses and associated maxillary sinusitis. Brook I, et al. **J Periodontol** 1996 Jun;67(6):608–10

PHYSIOLOGY

Hyperthermophiles in the history of life. Stetter KO. **Ciba Found Symp** 1996;202:1–10; discussion 11–8 (19 ref.)

Physiology and development of Pectinatus cerevisiiphilus and Pectinatus frisingensis, two strict anaerobic beer spoilage bacteria. Tholozan JL, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):29–39

Note: inhibition of the growth of Yersinia enterocolitica O:3 by the microflora of porcine caecum and ileum in an in vitro model. Asplund K, et al. **J Appl Bacteriol** 1996 Aug; 81(2):217–22

BACTERIAL ADHESINS see **ADHESINS, BACTERIAL**

BACTERIAL ADHESION

see related
ADHESINS, BACTERIAL

Bacterial adherence to the surface and isolated cell epithelium of the palatine tonsils. Fredriksen F, et al. **Acta Otolaryngol (Stockh)** 1996 Jul;116(4):620–6

Immunological cross reactivity of eaeA (intimin) from E. coli that cause attaching and effacing lesions in humans and rabbits. Agin TS, et al. **Adv Exp Med Biol** 1997; 412:103–4

Role of human milk constituents in blocking the adherence of enteric pathogens. Ashkenazi S. **Adv Exp Med Biol** 1996; 408:187–92 (18 ref.)

Distribution of K88-adhesive and non-adhesive phenotypes among four popular breeds of pigs. Baker DR, et al. **Adv Exp Med Biol** 1997;412:209–11

Fimbrial adhesins of Salmonella typhimurium. Role in bacterial interactions with epithelial cells. Bäumler AJ, et al. **Adv Exp Med Biol** 1997;412:149–58 (56 ref.)

A three-receptor model for the interaction of the K88 fimbrial adhesin variants of Escherichia coli with porcine intestinal epithelial cells. Erickson AK, et al. **Adv Exp Med Biol** 1997;412:167–73

Towards anti-Pseudomonas aeruginosa adhesion therapy. Gilboa-Garber N. **Adv Exp Med Biol** 1996;408:39–50 (63 ref.)

Binding of human enterotoxigenic Escherichia coli expressing coli surface antigen 6 to rabbit intestinal enterocytes and glycoproteins. Helander A, et al. **Adv Exp Med Biol** 1997; 412:257–8

Cloning of the RDEC-1 locus of enterocyte effacement (LEE) and functional analysis of the phenotype on HEp-2 cells. Karaolis DK, et al. **Adv Exp Med Biol** 1997;412:241–5

Plasminogen receptors. Turning Salmonella and Escherichia coli into proteolytic organisms. Korhonen TK, et al. **Adv Exp Med Biol** 1997;412:185–92

Interactions between the enteric pathogen and the host. An assortment of bacterial lectins and a set of glycoconjugate receptors. Mouricout M. **Adv Exp Med Biol** 1997; 412:109–23 (88 ref.)

Phenotypic and genotypic profiles of human, canine, and porcine spirochetes associated with colonic spirochetosis correlates with in vivo brush border attachment. Muniappa N, et al. **Adv Exp Med Biol** 1997;412:159–66

Carbohydrate-lectin interactions in infectious disease. Sharon N. **Adv Exp Med Biol** 1996;408:1–8 (20 ref.)

F107-binding immunoassay detects porcine intestinal receptors for F107 fimbriae of Escherichia coli. Stamm M, et al. **Adv Exp Med Biol** 1997;412:221–3

Anti-adhesion and diagnostic strategies for oro-intestinal bacterial pathogens. Strömberg N, et al. **Adv Exp Med Biol** 1996;408:9–24 (57 ref.)

Microbial coaggregation in the oral cavity. Weiss EI, et al. **Adv Exp Med Biol** 1996;408:233–40 (30 ref.)

Development of anti-adhesion carbohydrate drugs for clinical use. Zopf D, et al. **Adv Exp Med Biol** 1996;408:35–8 (7 ref.)

Interplay between mycoplasma surface proteins, airway cells, and the protean manifestations of mycoplasma-mediated human infections. Baseman JB, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S137–44 (45 ref.)

Receptors in the Pseudomonas aeruginosa adherence to injured and repairing airway epithelium. de Bentzmann S, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S155–62 (54 ref.)

Effect of antibodies to staphylococcal alpha and beta toxins and Staphylococcus aureus on the cytotoxicity for and adherence of the organism to bovine mammary epithelial cells. Cifrian E, et al. **Am J Vet Res** 1996 Sep;57(9):1308–11

In vitro models to study attachment and invasion of Helicobacter pylori. Birkness KA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:293–5

Bacterial adherence and mucosal cytokine responses. Receptors and transmembrane signaling. Svanborg C, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:177–90 (49 ref.)

Interactions between Eikenella corrodens and Streptococcus milleri-group' organisms: possible mechanisms of pathogenicity in mixed infections. Young KA, et al. **Antonie Van Leeuwenhoek** 1996 May;69(4):371–3

Cell surface properties of Acinetobacter baumannii. Kõljalg S, et al. **APMIS** 1996 Sep;104(9):659–65

The influence of incubation conditions on the adherence of oral Enterobacteriaceae to HeLa cells. Sedgley CM, et al. **APMIS** 1996 Jul–Aug;104(7–8):583–90

Effects of bacterial cell surface structures and hydrophobicity on attachment to activated sludge flocs. Zita A, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1168–70

Saliva mediated adherence, aggregation and prevalence in dental plaque of Streptococcus mutans, Streptococcus sanguis and Actinomyces spp, in young and elderly humans. Carlén A, et al. **Arch Oral Biol** 1996 Dec; 41(12):1133–40

Saliva-mediated binding in vitro and prevalence in vivo of Streptococcus mutans. Carlen A, et al. **Arch Oral Biol** 1996 Jan;41(1):35–9

Adsorption of saliva-coated and plain streptococcal cells to the surfaces of hydroxyapatite beads. Tanaka H, et al. **Arch Oral Biol** 1996 May;41(5):505–8

Bacterial adhesion on polyurethane surfaces conditioned with thrombus components. Baumgartner JN, et al. **ASAIO J** 1996 Sep–Oct;42(5):M476–9

Evidence that bacteria prefer to adhere to thrombus. Bos HM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M881–4

Binding between Pseudomonas aeruginosa adhesins and human salivary, tracheobronchial and nasopharyngeal mucins. Reddy MS. **Biochem Mol Biol Int** 1996 Oct; 40(2):403–8

The adherence of Streptococcus mutans and streptococcal antigen I/II to a high molecular weight human salivary glycoprotein. Tulloch B, et al. **Biochem Soc Trans** 1996 May;24(2):257S

Physical property analysis and bacterial adhesion on a series of phosphonated polyurethanes. Baumgartner JN, et al. **Biomaterials** 1997 Jun;18(12):831–7

Role of physiological conditions in the oropharynx on the adherence of respiratory bacterial isolates to endotracheal tube poly(vinyl chloride). Jones DS, et al. **Biomaterials** 1997 Mar;18(6):503–10

Adhesion of Lactobacillus species in urine and phosphate buffer to silicone rubber and glass under flow. Millsap KW, et al. **Biomaterials** 1997 Jan;18(1):87–91

Neutral glycolipids in adult rabbit blood and analysis of their function as specific receptors for micro-organisms. Ondarza MA, et al. **Biomed Chromatogr** 1996 Jan–Feb; 10(1):6–10

Attractive adsorbate interaction in biological surface

reactions. Nygren H. **Biophys Chem** 1996 Oct 30; 61(2–3):73–84

Mathematical modeling of adhesion of bacteria to host cell lines. Gálvez J, et al. **Bull Math Biol** 1997 Sep;59(5):833–56

Penetration of host cell lines by bacteria. Characteristics of the process of intracellular bacterial infection. Gálvez J, et al. **Bull Math Biol** 1997 Sep;59(5):857–79

Modulation of carbohydrate-binding capacities and attachment ability of Bradyrhizobium sp. (lupinus) to white lupin roots. Wisniewski JP, et al. **Can J Microbiol** 1996 Mar;42(3):234–42

Adherence of Pseudomonas aeruginosa to shed rabbit corneal epithelial cells after overnight wear of contact lenses [see comments] Ren H, et al. **CLAO J** 1997 Jan;23(1):63–8. Comment in: CLAO J 1997 Jan;23(1):6, 8.

Streptococcal adhesion and colonization. Jenkinson HF, et al. **Crit Rev Oral Biol Med** 1997;8(2):175–200 (189 ref.)

In vitro detection of Mycoplasma fermentans binding to B-lymphocytes in fresh peripheral blood using flow cytometry. Cheek RF, et al. **Cytometry** 1997 May 1; 28(1):90–5

Modulation of bacterial entry into epithelial cells by association between vinculin and the Shigella IpaA invasin. Tran Van Nhieu G, et al. **EMBO J** 1997 May 15; 16(10):2717–29

Influence of temperature on the co-adhesion of oral microbial pairs in saliva. Bos R, et al. **Eur J Oral Sci** 1996 Aug;104(4 (Pt 1)):372–7

Starvation increases the number of coliform bacteria in the caecum and induces bacterial adherence to caecal epithelium in rats. Nettelbladt CG, et al. **Eur J Surg** 1997 Feb;163(2):135–42

Pseudomonas aeruginosa adherence to remodelling respiratory epithelium. de Bentzmann S, et al. **Eur Respir J** 1996 Oct;9(10):2145–50 (47 ref.)

Bacterial proteases and adherence of Pseudomonas aeruginosa to mouse cornea. Gupta SK, et al. **Exp Eye Res** 1996 Jun;62(6):641–50

Adherence of Mycoplasma pneumoniae to human alveolar macrophages. Athamna A, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2–3):135–41

Cell envelope characteristics of Helicobacter pylori: their role in adherence to mucosal surfaces and virulence. Clyne M, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1; 16(2):141–55

Adhesion of Streptococcus uberis to monolayers of cultured epithelial cells derived from the bovine mammary gland. Ditcham WG, et al. **FEMS Immunol Med Microbiol** 1996 Jun;14(2–3):145–50

Inhibition of adhesion of Clostridium difficile to Caco-2 cells. Naaber P, et al. **FEMS Immunol Med Microbiol** 1996 Jul; 14(4):205–9

Development and environmental factors that enhance binding of Bordetella pertussis to human epithelial cells in relation to sudden infant death syndrome (SIDS). Saadi AT, et al. **FEMS Immunol Med Microbiol** 1996 Nov;16(1):51–9

The role of the capsular polysaccharide of Aeromonas salmonicida in the adherence and invasion of fish cell lines. Merino S, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):185–9

The role of flagella and motility in the adherence and invasion to fish cell lines by Aeromonas hydrophila serogroup O:34 strains. Merino S, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):213–7

Attachment of lactic acid bacteria to beef-muscle surfaces. Benito Y, et al. **Folia Microbiol (Praha)** 1996;41(4):333–8

Adherence of Helicobacter pylori to areas of incomplete intestinal metaplasia in the gastric mucosa. Genta RM, et al. **Gastroenterology** 1996 Nov;111(5):1206–11

Type-4 pili and meningococcal adhesiveness. Nassif X, et al. **Gene** 1997 Jun 11;192(1):149–53 (28 ref.)

Recognition of glycoconjugates by Helicobacter pylori. Comparison of two sialic acid-dependent specificities based on haemagglutination and binding to human erythrocyte glycoconjugates. Miller-Podraza H, et al. **Glycoconj J** 1997 Jun;14(4):467–71

In vitro adhesiveness of Bacteroides fragilis group in relation to encapsulation. Beena VK, et al. **Indian J Med Res** 1997 Jun;105:258–61

Host-bacteria interactions in foreign body infections. François P, et al. **Infect Control Hosp Epidemiol** 1996 Aug; 17(8):514–20 (63 ref.)

Vibrio mimicus attaches to the intestinal mucosa by outer membrane hemagglutinins specific to polypeptide moieties of glycoproteins. Alam M, et al. **Infect Immun** 1997 Sep; 65(9):3662–5

Host cell heparan sulfate proteoglycans mediate attachment and entry of Listeria monocytogenes, and the listerial surface protein ActA is involved in heparan sulfate receptor recognition. Alvarez-Domínguez C, et al. **Infect Immun** 1997 Jan;65(1):78–88

Adherence of Mycoplasma gallisepticum involves variable surface membrane proteins. Athamna A, et al. **Infect Immun** 1997 Jun;65(6):2468–71

Expression of slime interferes with in vitro detection of host protein receptors of Staphylococcus epidermidis. Baldassarri L, et al. **Infect Immun** 1997 Apr;65(4):1522–6

Differential binding of Nocardia asteroides in the murine lung and brain suggests multiple ligands on the nocardial surface. Beaman BL. **Infect Immun** 1996 Nov;64(11):4859–62

Adherence of Vibrio cholerae to cultured differentiated human intestinal cells: an in vitro colonization model. Bénitez JA, et al. **Infect Immun** 1997 Aug;65(8):3474–7

Role of the Escherichia coli O157:H7 O side chain in adherence and analysis of an rfb locus. Bilge SS, et al. **Infect Immun** 1996 Nov;64(11):4795–801

Identification of a Streptococcus gordonii SspB domain that mediates adhesion to Porphyromonas gingivalis. Brooks W, et al. **Infect Immun** 1997 Sep;65(9):3753–8

Coccoid and spiral Helicobacter pylori differ in their abilities to adhere to gastric epithelial cells and induce interleukin-8 secretion. Cole SP, et al. **Infect Immun** 1997 Feb; 65(2):843–6

Conversion of M serotype 24 of Streptococcus pyogenes to M serotypes 5 and 18: effect on resistance to phagocytosis and adhesion to host cells. Courtney HS, et al. **Infect Immun** 1997 Jun;65(6):2472–4

Nonopsonic binding of Mycobacterium tuberculosis to human complement receptor type 3 expressed in Chinese hamster ovary cells. Cywes C, et al. **Infect Immun** 1996 Dec;64(12):5373–83

Fimbriae and the hemagglutinating adhesin HA-Ag2 mediate adhesion of Porphyromonas gingivalis to epithelial cells. Du L, et al. **Infect Immun** 1997 Sep;65(9):3875–81

Adhesive factor/rabbit 2, a new fimbrial adhesin and a virulence factor from Escherichia coli O103, a serogroup enteropathogenic for rabbits. Fiederling F, et al. **Infect Immun** 1997 Feb;65(2):847–51

Role of pili in Haemophilus influenzae adherence and colonization. Gilsdorf JR, et al. **Infect Immun** 1997 Aug; 65(8):2997–3002 (75 ref.)

Binding of vitronectin to opa-expressing Neisseria gonorrhoeae mediates invasion of HeLa cells. Gómez-Duarte OG, et al. **Infect Immun** 1997 Sep; 65(9):3857–66

Streptococcus sanguis expresses a 150-kilodalton two-domain adhesin: characterization of several independent adhesin epitopes. Gong K, et al. **Infect Immun** 1997 Sep;65(9):3815–21

Adhesion of enteroaggregative Escherichia coli to pediatric intestinal mucosa in vitro. Hicks S, et al. **Infect Immun** 1996 Nov;64(11):4751–60

Identification of phosphatidylinositol mannoside as a mycobacterial adhesin mediating both direct and opsonic binding to nonphagocytic mammalian cells. Hoppe HC, et al. **Infect Immun** 1997 Sep;65(9):3896–905

A 140-kilodalton extracellular protein is essential for the accumulation of Staphylococcus epidermidis strains on surfaces. Hussain M, et al. **Infect Immun** 1997 Feb; 65(2):519–24

Active sites of salivary proline-rich protein for binding to Porphyromonas gingivalis fimbriae. Kataoka K, et al. **Infect Immun** 1997 Aug;65(8):3159–64

Down regulation of intimin expression during attaching and effacing enteropathogenic Escherichia coli adhesion. Knutton S, et al. **Infect Immun** 1997 May;65(5):1644–52

Successful cultivation of a potentially pathogenic coccoid organism with trophism for gastric mucin. Lee SG, et al. **Infect Immun** 1997 Jan;65(1):49–54

Unmasking of intestinal epithelial lateral membrane beta1 integrin consequent to transepithelial neutrophil migration in vitro facilitates inv-mediated invasion by Yersinia pseudotuberculosis. McCormick BA, et al. **Infect Immun** 1997 Apr;65(4):1414–21

Cell surface polypeptide CshA mediates binding of Streptococcus gordonii to other oral bacteria and to immobilized fibronectin. McNab R, et al. **Infect Immun** 1996 Oct;64(10):4204–10

Experimental infection of native human ureteral tissue with Neisseria gonorrhoeae: adhesion, invasion, intracellular fate, exocytosis, and passage through a stratified epithelium. Mosleh IM, et al. **Infect Immun** 1997 Aug;65(8):3391–8

Secretion of Shigella flexneri Ipa invasins on contact with epithelial cells and subsequent entry of the bacterium into cells are growth stage dependent. Mounier J, et al. **Infect Immun** 1997 Feb;65(2):774–82

T84 cells in culture as a model for enteroaggregative Escherichia coli pathogenesis. Nataro JP, et al. **Infect Immun** 1996 Nov;64(11):4761–8

Alterations in levels of DnaK and GroEL result in diminished survival and adherence of stressed Haemophilus ducreyi. Parsons LM, et al. **Infect Immun** 1997 Jun;65(6):2413–9

Shiga toxin-producing Escherichia coli isolates from cases of human disease show enhanced adherence to intestinal epithelial (Henle 407) cells. Paton AW, et al. **Infect Immun** 1997 Sep;65(9):3799–805

Role of adherence in interleukin-8 induction in Helicobacter pylori-associated gastritis. Rieder G, et al. **Infect Immun** 1997 Sep;65(9):3622–30

Attachment of a noninvasive enteric pathogen, enteropathogenic Escherichia coli, to cultured human intestinal epithelial monolayers induces transmigration of neutrophils. Savkovic SD, et al. **Infect Immun** 1996 Nov; 64(11):4480–7

Attaching and effacing enteropathogenic Escherichia coli O18ab invades epithelial cells and causes persistent diarrhea. Scaletsky IC, et al. **Infect Immun** 1996 Nov; 64(11):4876–81

Adhesion of Pseudomonas aeruginosa to respiratory mucins and expression of mucin-binding proteins are increased by limiting iron during growth. Scharfman A, et al. **Infect Immun** 1996 Dec;64(12):5417–20

A proposed role for the lutropin receptor in contact-inducible gonococcal invasion of Hec1B cells. Spence JM, et al. **Infect Immun** 1997 Sep;65(9):3736–42

Adherence to lipids and intestinal mucin by a recently recognized human pathogen, Campylobacter upsaliensis. Sylvester FA, et al. **Infect Immun** 1996 Oct;64(10):4060–6

In vitro attachment and invasion of chicken ovarian granulosa cells by Salmonella enteritidis phage type 8. Thiagarajan D, et al. **Infect Immun** 1996 Dec; 64(12):5015–21

Effect of carbon source on localized adherence of enteropathogenic Escherichia coli. Vanmaele RP, et al. **Infect Immun** 1997 Apr;65(4):1408–13

Keratinocyte proinflammatory responses to adherent and nonadherent group A streptococci. Wang B, et al. **Infect Immun** 1997 Jun;65(6):2119–26

A novel cryohemagglutinin associated with adherence of enteroaggregative Escherichia coli. Yamamoto T, et al. **Infect Immun** 1997 Aug;65(8):3478–84

Effects of antibodies against cell surface protein antigen PAc-glucosyltransferase fusion proteins on glucan synthesis and cell adhesion of Streptococcus mutans. Yu H, et al. **Infect Immun** 1997 Jun;65(6):2292–8

Inhibition of bacterial adherence to host tissue does not markedly affect disease in the murine model of Pseudomonas aeruginosa corneal infection. Zaidi TS, et al. **Infect Immun** 1997 Apr;65(4):1370–6

Detection of the intercellular adhesion gene cluster (ica) and phase variation in Staphylococcus epidermidis blood culture strains and mucosal isolates. Ziebuhr W, et al. **Infect Immun** 1997 Mar;65(3):890–6

In vivo bioluminescence to detect the attachment of L-forms of Listeria monocytogenes to food and clinical contact surfaces. Hibma AM, et al. **Int J Food Microbiol** 1996 Dec; 33(2–3):157–67

Adherence to stainless steel by foodborne microorganisms during growth in model food systems. Hood SK, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):145–53

Experimental salivary pellicles formed on titanium surfaces mediate adhesion of streptococci. Edgerton M, et al. **Int J Oral Maxillofac Implants** 1996 Jul-Aug;11(4):443–9

The effect of temperature, pH and medium in a surface adhesion immunofluorescent technique for detection of Listeria monocytogenes. Duffy G, et al. **J Appl Microbiol** 1997 Jul;83(1):95–101

Sulfur-binding protein of flagella of Thiobacillus ferrooxidans. Ohmura N, et al. **J Bacteriol** 1996 Oct; 178(19):5776–80

Comparative behavior of E. coli and S. aureus regarding attachment to and removal from a polymeric surface. Magnotta S, et al. **J Biomater Sci Polym Ed** 1997;8(9):683–9

Measurement of bacterial growth rates on polymers. Barton AJ, et al. **J Biomed Mater Res** 1996 Oct;32(2):271–8

Adhesion to silicone rubber of yeasts and bacteria isolated from voice prostheses: influence of salivary conditioning films. Busscher HJ, et al. **J Biomed Mater Res** 1997 Feb; 34(2):201–9

Quantitative comparison of shear-dependent Staphylococcus aureus adhesion to three polyurethane ionomer analogs with distinct surface properties. Dickinson RB, et al. **J Biomed Mater Res** 1997 Aug;36(2):152–62

Staphylococcus epidermidis adhesion to films deposited from hydroxyethylmethacrylate plasma. Morra M, et al. **J Biomed Mater Res** 1996 Jun;31(2):149–55

Adhesion of staphylococci to polymers with and without immobilized heparin in cerebrospinal fluid. Nomura S, et al. **J Biomed Mater Res** 1997 Spring;38(1):35–42

Adhesion of bacteria to stainless steel and silver-coated orthopedic external fixation pins. Wassall MA, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):325–30

In vitro bacterial adherence to hydrogel and poly(methyl methacrylate) intraocular lenses. Ng EW, et al. **J Cataract Refract Surg** 1996;22 Suppl 2:1331–5

Relationship between adhesion to intestinal Caco-2 cells and multidrug resistance in Klebsiella pneumoniae clinical isolates. Di Martino P, et al. **J Clin Microbiol** 1997 Jun; 35(6):1499–503

Age-specific prevalence of Escherichia coli with localized and aggregative adherence in Venezuelan infants with acute diarrhea. González R, et al. **J Clin Microbiol** 1997 May;35(5):1103–7

Detection of motility and putative synthesis of flagellar proteins in Salmonella pullorum cultures. Holt PS, et al. **J Clin Microbiol** 1997 Apr;35(4):1016–20

Adhesive properties and antibiotic resistance of Klebsiella, Enterobacter, and Serratia clinical isolates involved in nosocomial infections. Livrelli V, et al. **J Clin Microbiol** 1996 Aug;34(8):1963–9

HEp-2 cell adherence patterns, serotyping, and DNA analysis of Escherichia coli isolates from eight patients with AIDS and chronic diarrhea. Polotsky Y, et al. **J Clin Microbiol** 1997 Aug;35(8):1952–8

Frequency of pathogenic and enteroadherent Escherichia coli in patients with inflammatory bowel disease and controls. Schultsz C, et al. **J Clin Pathol** 1997 Jul; 50(7):573–9

An evaluation of an antiadhesive copolymer agent on plaque inhibition by chlorhexidine. Claydon N, et al. **J Clin Periodontol** 1996 Oct;23(10):952–4

Dual infection with attaching and effacing Escherichia coli and enterotoxigenic Escherichia coli in post-weaning pigs. Wada Y, et al. **J Comp Pathol** 1996 Jan;114(1):93–9

Incorporation of caseinoglycomacropeptide and caseinophosphopeptide into the salivary pellicle inhibits

adherence of mutans streptococci. Schüpbach P, et al. **J Dent Res** 1996 Oct;75(10):1779–88

Effect of microwave radiation, pasteurization and lyophilization on the ability of human milk to inhibit Escherichia coli adherence to HEp–2 cells. Carbonare SB, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):90–4

Adherence, invasion and cytotoxin assay of Campylobacter jejuni in HeLa and HEp–2 cells. Prasad KN, et al. **J Diarrhoeal Dis Res** 1996 Dec;14(4):255–9

Several carcinoembryonic antigens (CD66) serve as receptors for gonococcal opacity proteins. Chen T, et al. **J Exp Med** 1997 May 5;185(9):1557–64

Role of the glycocalyx in regulating access of microparticles to apical plasma membranes of intestinal epithelial cells: implications for microbial attachment and oral vaccine targeting. Frey A, et al. **J Exp Med** 1996 Sep 1; 184(3):1045–59

Identification of a Gal/GalNAc lectin in the protozoan Hartmannella vermiformis as a potential receptor for attachment and invasion by the Legionnaires' disease bacterium. Venkataraman C, et al. **J Exp Med** 1997 Aug 18;186(4):537–47

Bacterial adhesion on hydrophilic heparinized catheters, with compared with adhesion on silicone catheters, in patients with malignant obstructive jaundice. Homma H, et al. **J Gastroenterol** 1996 Dec;31(6):836–43

Prevalence of enteropathogenic, enteroaggregative, and diffusely adherent Escherichia coli among isolates from children with diarrhea in new Caledonia. Germani Y, et al. **J Infect Dis** 1996 Nov;174(5):1124–6

Borrelia burgdorferi adherence and injury to undifferentiated and differentiated neural cells in vitro. Peters DJ, et al. **J Infect Dis** 1997 Aug;176(2):470–7

Selective translocation of coliform bacteria adhering to caecal epithelium of rats during catabolic stress. Katouli M, et al. **J Med Microbiol** 1997 Jul;46(7):571–8

Vitronectin may mediate staphylococcal adhesion to polymer surfaces in perfusing human cerebrospinal fluid. Lundberg F, et al. **J Med Microbiol** 1997 Apr;46(4):285–96

Studies on the relationship between adhesive activity and haemagglutination by Helicobacter pylori. Osaki T, et al. **J Med Microbiol** 1997 Feb;46(2):117–21

Opsonin–independent adherence and phagocytosis of Listeria monocytogenes by murine peritoneal macrophages. Pierce MM, et al. **J Med Microbiol** 1996 Oct;45(4):258–62

Adherence of Aeromonas caviae to human cell lines Hep–2 and Caco–2. Thornley JP, et al. **J Med Microbiol** 1996 Dec;45(6):445–51

Bacterial adherence to guided tissue regeneration barrier membranes exposed to the oral environment. Chen YT, et al. **J Periodontol** 1997 Feb;68(2):172–9

A novel developmental process of intestinal epithelial lesions in a calf infected with attaching and effacing Escherichia coli. Wada Y, et al. **J Vet Med Sci** 1997 May;59(5):401–3

Hydrophobic characterization of thermophilic Campylobacter species and adhesion to INT 407 cell membranes and fibronectin. Moser I, et al. **Microb Pathog** 1997 Mar;22(3):155–64

Isolation and characterization of a 70 kDa protein from Mycobacterium avium. Ratnakar P, et al. **Microb Pathog** 1996 Dec;21(6):471–86

Correlations between Mycoplasma pneumoniae sensitivity to cyclosporin A and cyclophilin–mediated regulation of mycoplasma cytadherence. Reddy SP, et al. **Microb Pathog** 1996 Mar;20(3):155–69

Binding of enterotoxigenic Escherichia coli expressing different colonization factors to tissue–cultured Caco–2 cells and to isolated human enterocytes. Viboud GI, et al. **Microb Pathog** 1996 Aug;21(2):139–47

Moraxella (Branhamella) catarrhalis adherence to human bronchial and oropharyngeal cells: the role of adherence in lower respiratory tract infections. Rikitomi N, et al. **Microbiol Immunol** 1997;41(6):487–94

Adhesion of Pseudomonas aeruginosa to silicone rubber in a parallel plate flow chamber in the absence and presence of nutrient broth. Habash MB, et al. **Microbiology** 1997 Aug;143 (Pt 8):2569–74

Motility mutants of Vibrio cholerae O1 have reduced adherence in vitro to human small intestinal epithelial cells as demonstrated by ELISA. Postnova T, et al. **Microbiology** 1996 Oct;142 (Pt 10):2767–76

Antibody mediated inhibition of adhesion of Shigella dysenteriae 1 to guinea pig colonic epithelial cells in vitro. Guhathakurta B, et al. **Microbios** 1996;87(353):249–56

Spontaneous binding of Vibrio cholerae to human leucocytes. Monno R, et al. **Microbios** 1996;88(356):169–76

Aspecific adherence and cytotoxicity of Escherichia coli strains. Savoia D, et al. **Microbios** 1996;87(350):21–30

Evidence for autolysin–mediated primary attachment of Staphylococcus epidermidis to a polystyrene surface. Heilmann C, et al. **Mol Microbiol** 1997 Jun;24(5):1013–24

Molecular basis of intercellular adhesion in the biofilm–forming Staphylococcus epidermidis. Heilmann C, et al. **Mol Microbiol** 1996 Jun;20(5):1083–91

Adherence of Porphyromonas gingivalis to matrix proteins via a fimbrial cryptic receptor exposed by its own arginine–specific protease. Kontani M, et al. **Mol Microbiol** 1997 Jun;24(6):1179–87

Mycoplasma pneumoniae cytadherence: unravelling the tie that binds. Krause DC. **Mol Microbiol** 1996 Apr; 20(2):247–53 (35 ref.)

Pyruvate oxidase, as a determinant of virulence in Streptococcus pneumoniae. Spellerberg B, et al. **Mol Microbiol** 1996 Feb;19(4):803–13

A cluster of fourteen genes from enteropathogenic Escherichia coli is sufficient for the biogenesis of a type IV pilus. Stone KD, et al. **Mol Microbiol** 1996 Apr; 20(2):325–37

Bacterium–host interactions monitored by time–lapse photography. Löfman C, et al. **Nat Med** 1997 Aug; 3(8):930–1

Middle ear mucin glycoprotein: purification and interaction with nontypable Haemophilus influenzae and Moraxella catarrhalis. Reddy MS, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):175–80

Host defense within the urinary tract. I. Bacterial adhesion initiates an uroepithelial defense mechanism. Mannhardt W, et al. **Pediatr Nephrol** 1996 Oct;10(5):568–72

The effect of intestinal bacteria adherence on drug diffusion through solid films under stationary conditions. Rubinstein A, et al. **Pharm Res** 1997 Apr;14(4):503–7

Symmetries in bacterial motility. Berg HC. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14225–8

A recombinant Chlamydia trachomatis major outer membrane protein binds to heparan sulfate receptors on epithelial cells. Su H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11143–8

Exploitation of mammalian host cell functions by bacterial pathogens. Finlay BB, et al. **Science** 1997 May 2; 276(5313):718–25 (57 ref.)

Colonization factors of human enterotoxigenic Escherichia coli (ETEC). Gaastra W, et al. **Trends Microbiol** 1996 Nov; 4(11):444–52 (75 ref.)

Adhesion and invasion by the pathogenic neisseria. Jerse AE, et al. **Trends Microbiol** 1997 Jun;5(6):217–21 (9 ref.)

Inhibition of initial adhesion of uropathogenic Enterococcus faecalis to solid substrata by an adsorbed biosurfactant layer from Lactobacillus acidophilus. Velraeds MM, et al. **Urology** 1997 May;49(5):790–4

Distribution of K88 Escherichia coli–adhesive and nonadhesive phenotypes among pigs of four breeds. Baker DR, et al. **Vet Microbiol** 1997 Feb;54(2):123–32

Effect of staphylococcal beta toxin on the cytotoxicity, proliferation and adherence of Staphylococcus aureus to bovine mammary epithelial cells. Cifrian E, et al. **Vet Microbiol** 1996 Feb;48(3–4):187–98

Effect of in vitro maedi–visna virus infection on adherence and phagocytosis of staphylococci by ovine cells. Monleón E, et al. **Vet Microbiol** 1997 Jun 30;57(1):13–28

Adherence of Salmonella typhimurium to murine peritoneal macrophages is mediated by lipopolysaccharide and complement receptors. al–Bahry SN, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):83–92

Polymer materials for the prevention of catheter–related infections. Kohnen W, et al. **Zentralbl Bakteriol** 1995 Dec; 283(2):175–86 (58 ref.)

Adhesive properties of P–like fimbriae in Klebsiella–species. Przondo–Mordarska A, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):372–7

Mechanisms and factors involved in Mycoplasma bovis adhesion to host cells. Sachse K, et al. **Zentralbl Bakteriol** 1996 Jun;284(1):80–92

Some biochemical properties of the components of Staphylococcus aureus binding to human platelets. Usui Y, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):56–62

Adherence of Streptococcus uberis to bovine mammary epithelial cells and to extracellular matrix proteins. Almeida RA, et al. **Zentralbl Veterinarmed [B]** 1996 Sep;43(7):385–92

Relationship between haemagglutination and HeLa–cell adherence of Rhodococcus equi. Bern D, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):147–53

Influence of Streptococcus dysgalactiae surface hydrophobicity on adherence to mammary epithelial cells and phagocytosis by mammary macrophages. Calvinho LF, et al. **Zentralbl Veterinarmed [B]** 1996 Jul;43(5):257–66

[Adherent mechanism of the mutans of Actinomyces viscosus T14V] Guan W, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Nov; 30(6):329–31, 383 (Eng. Abstr.) **(Chi)**

[Pathogenic intestinal bacteria: adhesion and invasion] Paerregaard A. **Ugeskr Laeger** 1997 Mar 3;159(10):1417–22 (39 ref.) (Eng. Abstr.) **(Dan)**

[Pillin structural gene and bacterial adhesion to cultured cell of Pseudomonas aeruginosa isolated from clinical materials] Nakazawa Y. **Kansenshogaku Zasshi** 1996 Dec; 70(12):1271–8 (Eng. Abstr.) **(Jpn)**

[Mechanism and results of bacterial adhesion in urinary tract infections] Roberts JA. **Kansenshogaku Zasshi** 1996 Nov; 70(11):1127–32 **(Jpn)**

[Adhesive properties of bacteria isolated from patients with urinary tract infection to the urinary bladder] Yanagisawa N. **Nippon Hinyokika Gakkai Zasshi** 1997 Jan;88(1):24–34 (Eng. Abstr.) **(Jpn)**

[The adhesive activity of Klebsiella pneumoniae controlled by plasmid 55 MD] Bondarenko VM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul–Aug;(4):3–6 (Eng. Abstr.) **(Rus)**

[Inhibition of bacterial adherence—possibilities of prevention and therapy] Vraneš J. **Lijec Vjesn** 1996 Jul–Aug; 118(7–8):171–7 (92 ref.) (Eng. Abstr.) **(Scr)**

DRUG EFFECTS

Effect of subminimum inhibitory concentration of ceftriaxone on adherence of Pseudomonas aeruginosa to inert surfaces in an experimental model. Onaolapo JA, et al. **Afr J Med Med Sci** 1995 Sep;24(3):275–81

Inhibition by dextran of Pseudomonas aeruginosa adherence to epithelial cells. Barghouthi S, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1788–93

Effect of bovine serum, hyaluronic acid and netilmicine on the in vitro adhesion of bacteria isolated from human–worn disposable soft contact lenses. Pustorino R, et al. **Ann Ig** 1996 Jul–Aug;8(4):469–75

Increased expression of fibronectin–binding proteins by fluoroquinolone–resistant Staphylococcus aureus exposed to subinhibitory levels of ciprofloxacin. Bisognano C, et al. **Antimicrob Agents Chemother** 1997 May;41(5):906–13

Proteinaceous factor(s) in culture supernatant fluids of bifidobacteria which prevents the binding of enterotoxigenic Escherichia coli to gangliotetraosylceramide. Fujiwara S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):506–12

Capsular hyaluronic acid–mediated adhesion of Pasteurella multocida to turkey air sac macrophages. Pruimboom IM, et al. **Avian Dis** 1996 Oct–Dec;40(4):887–93

Inhibitory effects of funoran on the adherence and colonization of mutans streptococci. Saeki Y, et al. **Caries Res** 1996;30(2):119–25

Tamm–Horsfall protein inhibits binding of S– and P–fimbriated Escherichia coli to human renal tubular epithelial cells. Leeker A, et al. **Exp Nephrol** 1997 Jan–Feb; 5(1):38–46

Modulation of Pseudomonas aeruginosa adherence to collagen type I and type II by carbohydrates. Stępińska M, et al. **FEMS Immunol Med Microbiol** 1995 Dec; 12(3–4):187–94

The combined effects of plasma and hydrogel coating on adhesion of Staphylococcus epidermidis and Staphylococcus aureus to polyurethane catheters. John SF, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):241–7

Promotion of Salmonella typhimurium adherence and membrane ruffling in MDCK epithelia by staurosporine. Reed KA, et al. **FEMS Microbiol Lett** 1996 Dec 1; 145(2):233–8

Inhibition of Helicobacter pylori binding to gastrointestinal epithelial cells by sialic acid–containing oligosaccharides. Simon PM, et al. **Infect Immun** 1997 Feb;65(2):750–7

Secretory IgA inhibits Pseudomonas aeruginosa binding to cornea and protects against keratitis. Masinick SA, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):910–8

Cefodizime: effects of sub–inhibitory concentrations on adhesiveness and bacterial morphology of Staphylococcus aureus and Escherichia coli: comparison with cefotaxime and ceftriaxone. Braga PC, et al. **J Antimicrob Chemother** 1997 Jan;39(1):79–84

The effects of quinolones on the adherence of type–1 fimbriated Escherichia coli to mannosylated agarose beads. Breines DM, et al. **J Antimicrob Chemother** 1995 Dec; 36(6):911–25

Bacterial adhesion to polyurethane surfaces in the presence of pre–adsorbed high molecular weight kininogen. Nagel JA, et al. **J Biomater Sci Polym Ed** 1996;7(9):769–80

Biological interactions between antibiotics and bacterial adhesivity. Braga PC. **J Chemother** 1995 Nov;7 Suppl 4:15–7

Brodimoprim: effects of subminimal inhibitory concentrations on virulence traits of respiratory and urinary tract pathogens, and on plasmid transfer and stability. Marchese A, et al. **J Chemother** 1996 Jun;8(3):171–7

Influence of subinhibitory concentrations of ceftazidime, ciprofloxacin and azithromycin on the morphology and adherence of P–fimbriated escherichia coli. Vranes J, et al. **J Chemother** 1996 Aug;8(4):254–60

Effect of antimicrobial agents on the piliation of Pseudomonas aeruginosa and adherence to mouse tracheal epithelium. Yamasaki T, et al. **J Chemother** 1997 Feb; 9(1):32–7

Effect of chlorhexidine on the adherence properties of Porphyromonas gingivalis. Grenier D. **J Clin Periodontol** 1996 Feb;23(2):140–2

Inhibition of Streptococcus mutans adsorption to hydroxyapatite by low–molecular–weight chitosans. Tarsi R, et al. **J Dent Res** 1997 Feb;76(2):665–72

In vitro adherence of bacteria to bleached or unbleached enamel surfaces. Gürgan S, et al. **J Oral Rehabil** 1997 Aug; 24(8):624–7

Prevention of bacterial adherence to implant surfaces with a crosslinked albumin coating in vitro. An YH, et al. **J Orthop Res** 1996 Sep;14(5):846–9

Attachment of Haemophilus ducreyi to human foreskin fibroblasts involves LOS and fibronectin. Alfa MJ, et al. **Microb Pathog** 1997 Jan;22(1):39–46

Chlamydia trachomatis glycosaminoglycan–dependent and independent attachment to eukaryotic cells. Chen JC, et al. **Microb Pathog** 1997 Jan;22(1):23–30

Characterization of HEp–2 cell projection formation induced by diffusely adherent Escherichia coli. Cookson ST, et al. **Microb Pathog** 1996 Dec;21(6):421–34

Heparin–mediated inhibition of Chlamydia psittaci adherence to HeLa cells. Gutiérrez–Martin CB, et al. **Microb Pathog** 1997 Jan;22(1):47–57

Ocular infections: antibiotics and bacterial adhesion on biomaterials used in ocular surgery. Marone P, et al. **Ophthalmologica** 1995;209(6):315–8

Correlation between reduction of surface hydrophobicity of S. aureus and the decrease in its adhesiveness induced by

subinhibitory concentrations of brodimoprim. Braga PC, et al. **Pharmacol Res** 1995 Nov;32(5):315–9

Toward anti-adhesion therapy for microbial diseases. Ofek I, et al. **Trends Microbiol** 1996 Aug;4(8):297–9

Is it possible to prevent bacterial adhesion onto ureteric stents? Cormio L, et al. **Urol Res** 1997;25(3):213–6

[Change in various biological properties of Lactobacillus as affected by ribonuclease] Kolpakov AI, et al. **Antibiot Khimioter** 1996;41(10):16–8 (Eng. Abstr.) **(Rus)**

[Antimicrobial agents and adhesion of coagulase-negative staphylococci] Gómez-García AC, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):261–6 (55 ref.) **(Spa)**

GENETICS

Diffuse adherence, ST-I enterotoxin and CFA/IV colonization factor are encoded by the same plasmid in the Escherichia coli O29:H21 strain. Silva RM, et al. **Braz J Med Biol Res** 1996 Aug;29(8):969–76

Isolation and characterization of transposon Tn4001-generated, cytadherence-deficient transformants of Mycoplasma pneumoniae and Mycoplasma genitalium. Reddy SP, et al. **FEMS Immunol Med Microbiol** 1996 Oct; 15(4):199–211

Cloning, sequencing and expression of an Eikenella corrodens gene encoding a component protein of the lectin-like adhesin complex. Yumoto H, et al. **Gene** 1996 Dec 12; 183(1–2):115–21

Identification of a family of intimins common to Escherichia coli causing attaching-effacing lesions in rabbits, humans, and swine. Agin TS, et al. **Infect Immun** 1997 Jan; 65(1):320–6

Characterization of the fim2 and fim3 fimbrial subunit genes of Bordetella bronchiseptica: roles of Fim2 and Fim3 fimbriae and flagella in adhesion. Savelkoul PH, et al. **Infect Immun** 1996 Dec;64(12):5098–105

Influence of cloned tRNA genes from a uropathogenic Escherichia coli strain on adherence to primary human renal tubular epithelial cells and nephropathogenicity in rats. Susa M, et al. **Infect Immun** 1996 Dec;64(12):5390–4

A transcriptional activator, FleQ, regulates mucin adhesion and flagellar gene expression in Pseudomonas aeruginosa in a cascade manner. Arora SK, et al. **J Bacteriol** 1997 Sep;179(17):5574–81

A flagellar sheath protein of Helicobacter pylori is identical to HpaA, a putative N-acetylneuraminyllactose-binding hemagglutinin, but is not an adhesin for AGS cells. Jones AC, et al. **J Bacteriol** 1997 Sep;179(17):5643–7

Transposon mutagenesis reinforces the correlation between Mycoplasma pneumoniae cytoskeletal protein HMW2 and cytadherence. Krause DC, et al. **J Bacteriol** 1997 Apr; 179(8):2668–77

Shiga toxin-producing Escherichia coli strains from bovines: association of adhesion with carriage of eae and other genes. Wieler LH, et al. **J Clin Microbiol** 1996 Dec; 34(12):2980–4

Genetic and phenotypic analysis of Escherichia coli with enteropathogenic characteristics isolated from Seattle children. Bokete TN, et al. **J Infect Dis** 1997 Jun; 175(6):1382–9

Receptor specificities of variant Gal(alpha1–4)Gal-binding PapG adhesins of uropathogenic Escherichia coli as assessed by hemagglutination phenotypes. Johnson JR, et al. **J Infect Dis** 1997 Feb;175(2):373–81

Characterization of F18 fimbrial genes fedE and fedF involved in adhesion and length of enterotoxemic Escherichia coli strain 107/86. Imberechts H, et al. **Microb Pathog** 1996 Sep;21(3):183–92

The effect of mutations in genes required for lipopolysaccharide synthesis on Haemophilus influenzae type b colonization of human nasopharyngeal tissue. Jackson AD, et al. **Microb Pathog** 1996 Dec;21(6):463–70

Attaching and effacing of host cells by enteropathogenic Escherichia coli in the absence of detectable tyrosine kinase mediated signal transduction. Rabinowitz RP, et al. **Microb Pathog** 1996 Sep;21(3):157–71

Transfer of attaching and effacing from a strain of enteropathogenic Escherichia coli to E. coli K-12. O'Gorman LE, et al. **Microbiol Res** 1996 Dec;151(4):379–85

The afimbrial adhesive sheath encoded by the afa-3 gene cluster of pathogenic Escherichia coli is composed of two adhesins. Garcia MI, et al. **Mol Microbiol** 1996 Feb; 19(4):683–93

PilC of Neisseria meningitidis is involved in class II pilus formation and restores pilus assembly, natural transformation competence and adherence to epithelial cells in PilC-deficient gonococci. Ryll RR, et al. **Mol Microbiol** 1997 Mar;23(5):879–92

IMMUNOLOGY

Inhibition of bacterial adhesion and infections by lectin blocking. Beuth J, et al. **Adv Exp Med Biol** 1996;408:51–6 (46 ref.)

Fimbriae-mediated adherence induces mucosal inflammation and bacterial clearance. Consequences for anti-adhesion therapy. Connell H, et al. **Adv Exp Med Biol** 1996; 408:73–80 (43 ref.)

The effect of respiratory virus infection on expression of cell surface antigens associated with binding of potentially pathogenic bacteria. Elahmer OR, et al. **Adv Exp Med Biol** 1996;408:169–77 (26 ref.)

Adhesion molecules in leukocyte endothelial interaction. Etzioni A. **Adv Exp Med Biol** 1996;408:151–7 (15 ref.)

Group A streptococcal adhesion. All of the theories are correct. Hasty DL, et al. **Adv Exp Med Biol** 1996;408:81–94 (75 ref.)

Alternative inhibitors of mycoplasma adherence. Kahane I, et al. **Adv Exp Med Biol** 1996;408:107–11 (14 ref.)

Interactions of bacterial adhesins with the extracellular matrix. Ljungh A, et al. **Adv Exp Med Biol** 1996;408:129–40 (72 ref.)

Adhesion and invasion of Escherichia coli. Studies on function and regulation. Oelschlaeger TA, et al. **Adv Exp Med Biol** 1996;408:57–62 (29 ref.)

Anti-adhesins of Streptococcus sobrinus. Wang Q, et al. **Adv Exp Med Biol** 1996;408:249–62 (48 ref.)

An in vitro model to study the effect of antibodies and cell receptor analogues on meningococcal adherence to human oroepithelial cells. Carbonare SB, et al. **Braz J Med Biol Res** 1996 Feb;29(2):239–44

Effect of antibodies on the chain length and growth of Streptococcus sobrinus. van Raamsdonk M, et al. **Caries Res** 1997;31(1):35–40

Role of cell-associated N-acetyl-D-glucosamine specific haemagglutinin in the adhesion of Vibrio cholerae O1 to rabbit intestinal epithelial cells in vitro. Sasmal D, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):101–5

M protein mediated adhesion of M type 24 Streptococcus pyogenes stimulates release of interleukin-6 by HEp-2 tissue culture cells. Courtney HS, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):65–70

In vitro evaluation of the role of antibodies against Helicobacter pylori in inhibiting adherence of the organism to gastric cells. Clyne M, et al. **Gut** 1997 Jun;40(6):731–8

Bacterial attachment to oropharyngeal epithelial cells in breastfed newborns. Bjerkli IH, et al. **Int J Pediatr Otorhinolaryngol** 1996 Aug;36(3):205–13

Researchers identify tooth decay antibody [news] **J Can Dent Assoc** 1997 May;63(5):332

Application of an enzyme immunoassay to monitor bacterial binding and to measure inhibition of binding to different types of solid surfaces. el Tahir Y, et al. **J Immunoassay** 1997 May;18(2):165–83

Characterization of the Porphyromonas gingivalis antigen recognized by a monoclonal antibody which prevents colonization by the organism. Booth V, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 1):54–60

The role of O1-antigen in the adhesion to uroepithelial cells of Klebsiella pneumoniae grown in urine. Merino S, et al. **Microb Pathog** 1997 Jul;23(1):49–53

Loss of Helicobacter pylori hemagglutination with serial laboratory passage and correlation of hemagglutination with gastric epithelial cell adherence. Hopkins RJ, et al. **Pathobiology** 1996;64(5):247–54

PHYSIOLOGY

PAf receptor anchors Streptococcus pneumoniae to activated human endothelial cells. Cundell DR, et al. **Adv Exp Med Biol** 1996;416:89–94 (15 ref.)

Hydrophobic interactions as a basis for interfering with microbial adhesion. Rosenberg M, et al. **Adv Exp Med Biol** 1996;408:241–8 (42 ref.)

CFTR gene transfer reduces the binding of Pseudomonas aeruginosa to cystic fibrosis respiratory epithelium. Davies JC, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):657–63

Surfactant protein A (SP-A) mediates attachment of Mycobacterium tuberculosis to murine alveolar macrophages. Pasula R, et al. **Am J Respir Cell Mol Biol** 1997 Aug;17(2):209–17

Role of bacterial adherence and the mucus barrier on bacterial translocation: effects of protein malnutrition and endotoxin in rats. Katayama M, et al. **Ann Surg** 1997 Mar; 225(3):317–26

Mechanisms of adhesion by oral bacteria. Whittaker CJ, et al. **Annu Rev Microbiol** 1996;50:513–52 (224 ref.)

Expression of virulence-related properties by, and intestinal adhesiveness of, Vibrio mimicus strains isolated from aquatic environments. Alam M, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3871–4

Kinetics of adhesion of selected fish-pathogenic Vibrio strains of skin mucus of gilt-head sea bream (Sparus aurata L.). Bordas MA, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3650–4

Cell surface characteristics of Lactobacillus casei subsp. casei, Lactobacillus paracasei subsp. paracasei, and Lactobacillus rhamnosus strains. Pelletier C, et al. **Appl Environ Microbiol** 1997 May;63(5):1725–31

Adhesion and growth of Serratia marcescens on artificial closed eye tears soaked hydrogel contact lenses. Hume EB, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S39–41

Adherence of Helicobacter pylori to the gastric mucosa. Clyne M, et al. **Can J Gastroenterol** 1997 Apr;11(3):243–8 (93 ref.)

Common entry mechanisms. Bacterial pathogenesis. Marra A, et al. **Curr Biol** 1996 Sep 1;6(9):1084–6 (14 ref.)

Adherence of oral microorganisms to human parotid salivary proteins. Newman F, et al. **Electrophoresis** 1996 Jan; 17(1):266–70

Inhibition of enteropathogenic Escherichia coli adhesion to HEp-2 cells by colostrum and milk from mothers delivering low-birth-weight neonates. Delneri MT, et al. **Eur J Pediatr** 1997 Jun;156(6):493–8

Inhibition of Salmonella typhimurium adhesion to Caco-2 cell cultures by Lactobacillus strain GG spent culture supernate: only a pH effect? Lehto EM, et al. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):125–32

Uropathogenic Escherichia coli adhere to urinary catheters without using fimbriae. Reid G, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3–4):159–62

Identification of the sugars involved in mycobacterial cell aggregation. Anton V, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):167–70

Adhesion of bovine enterotoxigenic Escherichia coli (ETEC) by type 1-like fimbriae. Catani CF, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):241–5

Phenotypic expression of a mannose-sensitive hemagglutinin by a Vibrio cholerae O1 E1Tor strain and evaluation of its role in intestinal adherence and colonization. Mukhopadhyay S, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):227–32

The N-terminal half part of the oral streptococcal antigen I/IIf contains two distinct binding domains. Sciotti MA, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):439–45

Determination of bacterial cell surface hydrophobicity of single cells in cultures and in wastewater in situ. Zita A, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):299–306

Absence of effect of Lewis A and Lewis B expression on adherence of Helicobacter pylori to human gastric cells. Clyne M, et al. **Gastroenterology** 1997 Jul;113(1):72–80

Pattern of adhesion molecule expression on vascular endothelium in Helicobacter pylori-associated antral gastritis. Hatz RA, et al. **Gastroenterology** 1997 Jun; 112(6):1908–19

Cell surface glycosaminoglycans are not involved in the adherence of Helicobacter pylori to cultured Hs 198.St human gastric cells, Hs 746T human gastric adenocarcinoma cells, or HeLa cells. Kawasaki H, et al. **Glycoconj J** 1996 Oct;13(5):873–7

Prevention of Helicobacter pylori infection by lactobacilli in a gnotobiotic murine model. Kabir AM, et al. **Gut** 1997 Jul;41(1):49–55

Specific binding of Haemophilus influenzae to minor gangliosides of human respiratory epithelial cells. Fakih MG, et al. **Infect Immun** 1997 May;65(5):1695–700

The fibronectin-binding protein of Streptococcus pyogenes, SfbI, is involved in the internalization of group A streptococci by epithelial cells. Molinari G, et al. **Infect Immun** 1997 Apr;65(4):1357–63

The role of physicochemical properties of biomaterials and bacterial cell adhesion in vitro. Kitano T, et al. **Int J Artif Organs** 1996 Jun;19(6):353–8

Effect of adherent Lactobacillus spp. on in vitro adherence of salmonellae to the intestinal epithelial cells of chicken. Jin LZ, et al. **J Appl Bacteriol** 1996 Aug;81(2):201–6

Purification and characterization of a component produced by Lactobacillus fermentum that inhibits the adhesion of K88 expressing Escherichia coli to porcine ileal mucus. Ouwehand AC, et al. **J Appl Bacteriol** 1996 Mar; 80(3):311–8

Adhesion of the positively charged bacterium Stenotrophomonas (Xanthomonas) maltophilia 70401 to glass and Teflon. Jucker BA, et al. **J Bacteriol** 1996 Sep; 178(18):5472–9

A region of the Yersinia pseudotuberculosis invasin protein that contributes to high affinity binding to integrin receptors. Saltman LH, et al. **J Biol Chem** 1996 Sep 20; 271(38):23438–44

Prophyromonas gingivalis fimbriae mediate coaggregation with Streptococcus oralis through specific domains. Amano A, et al. **J Dent Res** 1997 Apr;76(4):852–7

Adhesion of Staphylococcus aureus to horny layer: role of fibrinogen. Kanzaki H, et al. **J Dermatol Sci** 1996 Jun; 12(2):132–9

A rapid and simple method to quantify Helicobacter pylori adhesion to human gastric MKN-28 cells. Hayashi S, et al. **J Gastroenterol Hepatol** 1997 May;12(5):373–5

Novel animal model for studying the molecular mechanisms of bacterial adhesion to bone-implanted metallic devices: role of fibronectin in Staphylococcus aureus adhesion. Fischer B, et al. **J Orthop Res** 1996 Nov;14(6):914–20

The effect of surface roughness on early in vivo plaque colonization on titanium. Rimondini L, et al. **J Periodontol** 1997 Jun;68(6):556–62

Breastmilk oligosaccharides point the way to new therapeutic strategies [editorial] Ebrahim GJ. **J Trop Pediatr** 1997 Feb; 43(1):2–3

Tropism in bacterial infections: urinary tract infections. Roberts JA. **J Urol** 1996 Nov;156(5):1552–9 (84 ref.)

Molecular evidence for pap-G specific adhesion of Escherichia coli to human renal cells. Söderhäll M, et al. **J Urol** 1997 Jan;157(1):346–50

Adherence patterns and DNA probe types of Escherichia coli isolated from diarrheal patients in China. Xu JG, et al. **Microbiol Immunol** 1996;40(2):89–97

Significance of bacterial surface-active compounds in interaction of bacteria with interfaces. Neu TR. **Microbiol Rev** 1996 Mar;60(1):151–66 (212 ref.)

Influence of ionic strength and substratum hydrophobicity on the co-adhesion of oral microbial pairs. Bos R, et al. **Microbiology** 1996 Sep;142 (Pt 9):2355–61

The influence of A-band and B-band lipopolysaccharide on the surface characteristics and adhesion of Pseudomonas aeruginosa to surfaces. Makin SA, et al. **Microbiology** 1996 Feb;142 (Pt 2):299–307

The effects of adherence to silicone surfaces on antibiotic susceptibility in Staphylococcus aureus. Williams I, et al. **Microbiology** 1997 Jul;143 (Pt 7):2407–13

Influence of pili, fibrils, and capsule on in vitro adherence by Haemophilus influenzae type b. St. Geme JW 3rd, et al. **Mol Microbiol** 1996 Jul;21(1):21–31

DsbA is required for stability of the type IV pilin of enteropathogenic escherichia coli. Zhang HZ, et al. **Mol Microbiol** 1996 Aug;21(4):787–97

Factors affecting Staphylococcus epidermidis adhesion to contact lenses. Fleiszig SM, et al. **Optom Vis Sci** 1996 Sep; 73(9):590–4

Role of pili in Haemophilus influenzae adherence to, and internalization by, respiratory cells. Gilsdorf JR, et al. **Pediatr Res** 1996 Feb;39(2):343–8

Peptide methionine sulfoxide reductase contributes to the maintenance of adhesins in three major pathogens. Wizemann TM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7985–90

Role of lipo-oligosaccharides and lipopolysaccharides in bacterial adherence [see comments] Jacques M. **Trends Microbiol** 1996 Oct;4(10):408–9 (31 ref.). Comment in: Trends Microbiol 1996 Nov;4(11):418.

[Intervention of Campylobacter jejuni subsp. jejuni flagella in the adhesion to cellular cultures: bacteriological and immunological evidence] Fernández H, et al. **Rev Med Chil** 1996 Sep;124(9):1029–35 (Eng. Abstr.) **(Spa)**

BACTERIAL ANTIBODIES see **ANTIBODIES, BACTERIAL**

BACTERIAL ANTIGENS see **ANTIGENS, BACTERIAL**

BACTERIAL ATTACHMENT SITES see **ATTACHMENT SITES (MICROBIOLOGY)**

BACTERIAL CAPSULES

Ribotyping of Pseudomonas aeruginosa isolates from patients and water springs and genome fingerprinting of variants concerning mucoidy. Leitão JH, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):287–92

In vitro adhesiveness of Bacteroides fragilis group in relation to encapsulation. Beena VK, et al. **Indian J Med Res** 1997 Jun;105:258–61

Expression of capsules by Haemophilus influenzae in mixed infections [letter; comment] Jordens JZ, et al. **J Infect** 1996 Jul;33(1):65–6. Comment on: J Infect 1995 May;30(3):219–22.

Sialic acids of both the capsule and the sialylated lipooligosaccharide of Neisseria meningitis serogroup B are prerequisites for virulence of meningococci in the infant rat. Vogel U, et al. **Med Microbiol Immunol (Berl)** 1996 Sep;185(2):81–7

Influence of the capsular layer on the virulence of Pasteurella piscicida for fish. Magariños B, et al. **Microb Pathog** 1996 Oct;21(4):289–97

[The role of capsule in staphylococcal infection and immunity] Ichiman Y. **Nippon Saikingaku Zasshi** 1996 Feb; 51(2):601–11 (15 ref.) **(Jpn)**

ANALYSIS

Direct and indirect methods for molar-mass analysis of fragments of the capsular polysaccharide of Haemophilus influenzae type b. D'Ambra A, et al. **Anal Biochem** 1997 Aug 1;250(2):228–36

[Comparison of detection methods for the Staphylococcus aureus capsule] Odierno L, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):245–55 (Eng. Abstr.) **(Spa)**

BIOSYNTHESIS

Escherichia coli K5 capsule expression enhances colonization of the large intestine in the gnotobiotic rat. Hérias MV, et al. **Infect Immun** 1997 Feb;65(2):531–6

Molecular and genetic characterization of the capsule biosynthesis locus of Streptococcus pneumoniae type 19B. Morona JK, et al. **J Bacteriol** 1997 Aug;179(15):4953–8

Expression of both M protein and hyaluronic acid capsule by group A streptococcal strains results in a high virulence for chicken embryos. Schmidt KH, et al. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):169–73

Expression of the tolQRA genes of Escherichia coli K-12 is controlled by the RcsC sensor protein involved in capsule synthesis. Clavel T, et al. **Mol Microbiol** 1996 Jan; 19(1):19–25

Cloning and sequence of a region encoding a surface polysaccharide of Vibrio cholerae O139 and characterization of the insertion site in the chromosome of Vibrio cholerae O1. Comstock LE, et al. **Mol Microbiol** 1996 Feb;19(4):815–26

CHEMISTRY

Classification of Vibrio vulnificus strains by the carbohydrate composition of their capsular polysaccharides. Bush CA, et al. **Anal Biochem** 1997 Aug 1;250(2):186–95

Structure of the capsular polysaccharide of Clostridium perfringens Hobbs 5 as determined by NMR spectroscopy. Kalelkar S, et al. **Carbohydr Res** 1997 Apr 21;299(3):119–28

Structural analysis of the capsular antigen of Escherichia coli O8:K41:H11. Leslie MR, et al. **Carbohydr Res** 1997 Apr 21;299(3):197–202

Structure of stewartan, the capsular exopolysaccharide from the corn pathogen Erwinia stewartii. Nimtz M, et al. **Carbohydr Res** 1996 Jul 19;288:189–201

Structure of amylovoran, the capsular exopolysaccharide from the fire blight pathogen Erwinia amylovora. Nimtz M, et al. **Carbohydr Res** 1996 Jun 7;287(1):59–76

Synthesis of colitose-containing oligosaccharide structures found in polysaccharides from Vibrio cholerae O139 synonym Bengal using thioglycoside donors. Oscarson S, et al. **Carbohydr Res** 1997 Apr 21;299(3):159–64

The structure of the capsular polysaccharide from a swarming strain of pathogenic Proteus vulgaris. Rahman MM, et al. **Carbohydr Res** 1997 Jun 20;301(3–4):213–20

The structure of the capsular polysaccharide from Klebsiella type 52, using the computerised approach CASPER and NMR spectroscopy. Stenutz R, et al. **Carbohydr Res** 1997 Jul 11;302(1–2):79–84

Synthesis and NMR assignment of two repeating units (decasaccharide) of the type III group B Streptococcus capsular polysaccharide and its 13C-labeled and N-propionyl substituted sialic acid analogues. Zou W, et al. **Carbohydr Res** 1996 Dec 13;295:209–28

Heat-stable serotyping antigens expressed by strains of Campylobacter jejuni are probably capsular and not long-chain lipopolysaccharide. Chart H, et al. **J Appl Bacteriol** 1996 Dec;81(6):635–40

Structural characterization of the K antigens from Rhizobium fredii USDA257: evidence for a common structural motif, with strain-specific variation, in the capsular polysaccharides of Rhizobium spp. Forsberg LS, et al. **J Bacteriol** 1997 Sep;179(17):5366–71

Characterization of the capsular polysaccharide of Burkholderia (Pseudomonas) pseudomallei 304b. Masoud H, et al. **J Bacteriol** 1997 Sep;179(18):5663–9

[Isolation and purification of capsular polysaccharide from Haemophilus influenzae type B] Grzybowska W, et al. **Postepy Hig Med Dosw** 1996;50(5):529–31 (Eng. Abstr.) **(Pol)**

CLASSIFICATION

Novel polysaccharide capsular serotypes in Porphyromonas gingivalis. Laine ML, et al. **J Periodontal Res** 1996 May; 31(4):278–84

DRUG EFFECTS

Bismuth-dimercaprol exposes surface components of Klebsiella pneumoniae camouflaged by the polysaccharide capsule. Domenico P, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:269–70

Survival of Vi-capsulated and Vi-deleted Salmonella typhi strains in cultured macrophage expressing different levels of CD14 antigen. Hirose K, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):259–65

Effect of sub-inhibitory concentrations of clarithromycin and erythromycin on the production of Staphylococcus aureus capsules. Ohtomo T, et al. **J Chemother** 1995 Nov;7 Suppl 4:9–11

In-vitro effects of penicillin and clindamycin on the expression of Streptococcus pneumoniae capsule. Brook I, et al. **J Med Microbiol** 1996 Dec;45(6):505–6

Electron microscopic observation of the antibody-induced capsular swelling phenomenon in Klebsiella pneumoniae. Meno Y, et al. **Microbiol Immunol** 1996;40(5):339–44

GENETICS

The biochemistry and genetics of capsular polysaccharide production in bacteria. Roberts IS. **Annu Rev Microbiol** 1996;50:285–315 (145 ref.)

Molecular biology of the capsular genes of Streptococcus pneumoniae. García E, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):1–10 (39 ref.)

Differential influence of the two Bacillus anthracis plasmids on regulation of virulence gene expression. Fouet A, et al. **Infect Immun** 1996 Dec;64(12):4928–32

Effect of amplification of the Cap b locus on complement-mediated bacteriolysis and opsonization of type b Haemophilus influenzae. Noel GJ, et al. **Infect Immun** 1996 Nov;64(11):4769–75

Molecular and genetic characterization of the capsule biosynthesis locus of Streptococcus pneumoniae type 19B. Morona JK, et al. **J Bacteriol** 1997 Aug;179(15):4953–8

Molecular characterization and transcriptional analysis of type 8 capsule genes in Staphylococcus aureus. Sau S, et al. **J Bacteriol** 1997 Mar;179(5):1614–21

Transcriptional organization and regulation of expression of region 1 of the Escherichia coli K5 capsule gene cluster. Simpson DA, et al. **J Bacteriol** 1996 Nov;178(22):6466–74

Evidence for the simultaneous expression of two PspAs by a clone of capsular serotype 6B Streptococcus pneumoniae. Crain MJ, et al. **Microb Pathog** 1996 Oct;21(4):265–75

Transcriptional analysis of type 1 capsule genes in Staphylococcus aureus. Ouyang S, et al. **Mol Microbiol** 1997 Feb;23(3):473–82

Regulation of the Escherichia coli K5 capsule gene cluster by transcription antitermination. Stevens MP, et al. **Mol Microbiol** 1997 Jun;24(5):1001–12

Cross-talk to the genes for Bacillus anthracis capsule synthesis by atxA, the gene encoding the trans-activator of anthrax toxin synthesis. Uchida I, et al. **Mol Microbiol** 1997 Mar;23(6):1229–40

Capsule switching of Neisseria meningitidis. Swartley JS, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):271–6

[New data on the specificity and genetic control of the capsular antigen (F1) in Yersinia pestis] Kosse LV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar-Apr; (2):29–33 (Eng. Abstr.) **(Rus)**

HISTORY

Polysaccharide vaccines: determinants of clinical efficacy. Musher DM. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):37–8, 41–4, 52–3 passim

IMMUNOLOGY

The lack of association between aging and postvaccination levels of IgG antibody to capsular polysaccharides of Streptococcus pneumoniae. Musher DM, et al. **Clin Infect Dis** 1996 Jan;22(1):165–7

Emergence of antibody to capsular polysaccharides of Streptococcus pneumoniae during outbreaks of pneumonia: association with nasopharyngeal colonization. Musher DM, et al. **Clin Infect Dis** 1997 Mar;24(3):441–6

Relative contributions of hyaluronic acid capsule and M protein to virulence in a mucoid strain of the group A Streptococcus. Moses AE, et al. **Infect Immun** 1997 Jan; 65(1):64–71

Release of tumor necrosis factor alpha in response to Vibrio vulnificus capsular polysaccharide in in vivo and in vitro models. Powell JL, et al. **Infect Immun** 1997 Sep; 65(9):3713–8

N-Propionylated group B meningococcal polysaccharide mimics a unique bactericidal capsular epitope in group B Neisseria meningitidis. Pon RA, et al. **J Exp Med** 1997 Jun 2;185(11):1929–38

A new multiantigen immunoassay for the quantification of IgG antibodies to capsular polysaccharides of Streptococcus pneumoniae. Roth F, et al. **J Infect Dis** 1997 Aug;176(2):526–9

Comparative preparation methods of sialylated capsule antigen from Streptococcus suis type 2 with type specific antigenicity. Katsumi M, et al. **J Vet Med Sci** 1996 Oct; 58(10):947–52

Complement resistance of capsulated strains of Aeromonas salmonicida. Merino S, et al. **Microb Pathog** 1997 May; 22(5):315–20

[A comparative study of fluoroquinolones and 3rd-generation cephalosporins in the prevention and treatment of experimental plague caused by Yersinia pestis strains typical and serologically atypical with respect to F1] Ryzhko IV, et al. **Antibiot Khimioter** 1997;42(1):12–6 (Eng. Abstr.) **(Rus)**

[Comparative incidence of detection of specific antibodies to Yersinia pestis capsular antigen and lipopolysaccharide in humans immunized with pest vaccine] Devdariani ZL, et al. **Klin Lab Diagn** 1997 Apr;(4):39–41 (Eng. Abstr.) **(Rus)**

[New data on the specificity and genetic control of the capsular antigen (F1) in Yersinia pestis] Kosse LV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar-Apr; (2):29–33 (Eng. Abstr.) **(Rus)**

METABOLISM

SP-A enhances phagocytosis of Klebsiella by interaction with capsular polysaccharides and alveolar macrophages. Kabha K, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L344–52

The biochemistry and genetics of capsular polysaccharide production in bacteria. Roberts IS. **Annu Rev Microbiol** 1996;50:285–315 (145 ref.)

Degradation studies on Escherichia coli capsular polysaccharides by bacteriophages. Nimmich W. **FEMS Microbiol Lett** 1997 Aug 1;153(1):105–10

Roles of the bacterial cell wall and capsule in induction of tumor necrosis factor alpha by type III group B streptococci. Vallejo JG, et al. **Infect Immun** 1996 Dec; 64(12):5042–6

Evidence that KpsT, the ATP-binding component of an ATP-binding cassette transporter, is exposed to the periplasm and associates with polymer during translocation of the polysialic acid capsule of Escherichia coli K1. Bliss JM, et al. **J Bacteriol** 1997 Feb;179(4):1400–3

Identification of additional genes required for O-antigen biosynthesis in Vibrio cholerae O1. Fallarino A, et al. **J Bacteriol** 1997 Apr;179(7):2147–53

The rkpGHI and -J genes are involved in capsular polysaccharide production by Rhizobium meliloti. Kiss E, et al. **J Bacteriol** 1997 Apr;179(7):2132–40

Membrane glycerophospholipid biosynthesis in Neisseria meningitidis and Neisseria gonorrhoeae: identification, characterization, and mutagenesis of a lysophosphatidic acid acyltransferase. Swartley JS, et al. **Mol Microbiol** 1995 Nov;18(3):401–12

PHARMACOLOGY

[Effects of capsules on attachment of human periodontal ligament fibroblasts to root surface] Zhao S, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan; 31(1):19–21 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

The role of the capsular polysaccharide of Aeromonas

BACTERIAL CAPSULES

salmonicida in the adherence and invasion of fish cell lines. Merino S, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):185–9

Identification and characterization of a DNA region involved in the export of capsular polysaccharide by Actinobacillus pleuropneumoniae serotype 5a. Ward CK, et al. **Infect Immun** 1997 Jun;65(6):2491–6

Hyaluronic acid capsule and the role of streptococcal entry into keratinocytes in invasive skin infection. Schrager HM, et al. **J Clin Invest** 1996 Nov 1;98(9):1954–8

Bacterial capsules: no barrier against Bdellovibrio. Koval SF, et al. **Microbiology** 1997 Mar;143 (Pt 3):749–53

ULTRASTRUCTURE

Fine surface structure of enterotoxemic Escherichia coli O139:K12 strains associated with swine edema disease. Meno Y, et al. **Arch Microbiol** 1996 Nov;166(5):357–60

Electron microscopic observation of the antibody-induced capsular swelling phenomenon in Klebsiella pneumoniae. Meno Y, et al. **Microbiol Immunol** 1996;40(5):339–44

BACTERIAL CONJUGATION see **CONJUGATION, GENETIC**

BACTERIAL CONJUNCTIVITIS see **CONJUNCTIVITIS, BACTERIAL**

BACTERIAL COUNT see **COLONY COUNT, MICROBIAL**

BACTERIAL DNA see **DNA, BACTERIAL**

BACTERIAL ELONGATION FACTOR TU see **PEPTIDE ELONGATION FACTOR TU**

BACTERIAL EYE INFECTIONS see **EYE INFECTIONS, BACTERIAL**

BACTERIAL GENE EXPRESSION REGULATION see **GENE EXPRESSION REGULATION, BACTERIAL**

BACTERIAL GENE PRODUCTS see **BACTERIAL PROTEINS**

BACTERIAL GENE PROTEINS see **BACTERIAL PROTEINS**

BACTERIAL GENOME see **GENOME, BACTERIAL**

BACTERIAL INFECTIONS

Association between second-trimester bacterial invasion of amniotic fluid and spectrophotometry at 450 nm [letter; comment] Sziller I, et al. **Am J Obstet Gynecol** 1996 Oct; 175(4 Pt 1):1082–3. Comment on: Am J Obstet Gynecol 1996 Mar;174(3):839–42.

Residual amniotic fluid volume in preterm rupture of membranes: association with fetal presentation and incidence of clinical and histologic evidence of infection. Sherer DM, et al. **Am J Perinatol** 1997 Mar;14(3):125–8

Incrimination of anaerobic bacteria in the induction of experimental colitis. García-Lafuente A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G10–5

Cross-talk between bacterial pathogens and their host cells. Galán JE, et al. **Ann Rev Cell Dev Biol** 1996;12:221–55 (172 ref.)

Prophylaxis and pre-emptive therapy of bacterial infections following allogeneic bone marrow transplantation in children. Vossen JM, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:93–6

Bacterial joint infections in England and Wales: analysis of bacterial isolates over a four year period. Ryan MJ, et al. **Br J Rheumatol** 1997 Mar;36(3):370–3

HLA-B27 and bacteria. Uksila J, et al. **Clin Rheumatol** 1996 Jan;15 Suppl 1:44–7 (27 ref.)

Keratitis caused by alcaligenes denitrificans subsp. xylosoxidans [letter] Vogel M, et al. **Cornea** 1996 Jul; 15(4):437–9

Bacterial infections of the bronchial tree. Wilson R. **Curr Opin Pulm Med** 1997 Mar;3(2):105–10 (34 ref.)

Diagnosis and treatment of infectious diseases in HIV-infected hosts. Castano-Molina C, et al. **Dermatol Clin** 1997 Apr;15(2):267–83 (197 ref.)

Polymicrobial bacterial pericarditis with mediastinitis after endotracheal intubation. Lu DC, et al. **Diagn Microbiol Infect Dis** 1995 Nov;23(3):115–8

Subungual abscess: a bacterial infection of the nail bed. Fleming TE, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):486–7

Newer bacterial pathogens in relation to acute diarrhoeal diseases—an overview. Niyogi SK, et al. **J Assoc Physicians India** 1996 May;44(5):325–6, 331 (36 ref.)

Pathogenic potential of Gardnerella vaginalis on the female urogenital system. Chaudhuri M, et al. **J Indian Med Assoc** 1996 Jan;94(1):11–3, 16

Evaluation of steatorrhea during acute infectious enteritis [letter] Carroccio A, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):340–1

Pericoronitis as a cause of tonsillitis [see comments] Niessen LC. **Lancet** 1996 Dec 14;348(9042):1602–3. Comment in: Lancet 1997 Mar 1;349(9052):652–3.

Infectious causes of acute pancreatitis. Parenti DM, et al. **Pancreas** 1996 Nov;13(4):356–71 (238 ref.)

Experimental acute infectious pancreatitis in rats: histological observations. Manenti A, et al. **Pathologica** 1996 Aug; 88(4):286–90

Reactive arthritis due to Gardnerella vaginalis. A case-report [letter] François S, et al. **Rev Rhum Engl Ed** 1997 Feb; 64(2):138–9

Endocarditis associated with infectious discitis [letter; comment] Hacene A, et al. **Rev Rhum Engl Ed** 1996 Oct; 63(9):632. Comment on: Rev Rhum Engl Ed 1996 Feb;63(2):119–23.

Infection-related morbidity in systemic lupus erythematosus: a clinico-epidemiological study from northern India. Shyam C, et al. **Rheumatol Int** 1996;16(1):1–3

Sinus infection in intensive care patients. Mevio E, et al. **Rhinology** 1996 Dec;34(4):232–6

Spontaneous bacterial peritonitis: an indication for liver transplantation? Bac DJ. **Scand J Gastroenterol Suppl** 1996; 218:38–42 (43 ref.)

Major medical complications of lung transplantation: a pediatric perspective. Mallory GB Jr. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):305–12 (58 ref.)

Donor infection and primary nonfunction in liver transplantation. Nery JR, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):481–3

[Anaerobic infections of the soft tissues] Mathieu D, et al. **Ann Chir** 1997;51(3):272–87 (120 ref.) (Eng. Abstr.) **(Fre)**

[True or supposed bacterial endophthalmitis. Study of anatomo-functional outcome apropos of 32 cases] Saint-Blancat P, et al. **J Fr Ophtalmol** 1996;19(10):597–602 (Eng. Abstr.) **(Fre)**

[Infectious complications of lung and heart-lung transplantation] Nicod LP. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S41–7 (58 ref.) (Eng. Abstr.) **(Fre)**

[Nervous system infections (discussion)] **Nippon Naika Gakkai Zasshi** 1996 May 10;85(5):736–51 **(Jpn)**

[Epidemiology of patients with nervous system infections] Kaji M, et al. **Nippon Naika Gakkai Zasshi** 1996 May 10; 85(5):693–8 (7 ref.) **(Jpn)**

[Microbes that invade nervous system] Shimada K. **Nippon Naika Gakkai Zasshi** 1996 May 10;85(5):655–8 (12 ref.) **(Jpn)**

[The 69th annual meeting of the Japanese Society for Bacteriology. Fukuoka, Japan. March 27–29, 1996. Abstracts] **Nippon Saikingaku Zasshi** 1996 Jan;51(1):1–466 **(Jpn)**

[The 70th annual meeting of the Japanese Society for Bacteriology. Tochigi, Japan. March 29–31, 1997. Abstracts] **Nippon Saikingaku Zasshi** 1997 Jan;52(1):1–392 **(Jpn)**

[Infective myocarditis] Hiramitsu S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):61–4 (20 ref.) **(Jpn)**

[Purulent mediastinitis] Kozak J, et al. **Pneumonol Alergol Pol** 1996;64(5–6):283–8 (Eng. Abstr.) **(Pol)**

[Acute infectious diarrhea in children] de Sousa JS. **Acta Med Port** 1996 Oct-Dec;9(10–12):347–52 (68 ref.) (Eng. Abstr.) **(Por)**

[Pyoarthritis of the knee—caseload of the Hospital das Clínicas da FMUSP 1990–1994 (86 cases)] Pereira EA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1995 Nov-Dec; 50(6):317–9 (Eng. Abstr.) **(Por)**

[Early stages of development of infectious process and two-faced role of normal microflora] Bondarenko VM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):7–10 (34 ref.) **(Rus)**

BLOOD

Procalcitonin and C-reactive protein levels in neonatal infections. Monneret G, et al. **Acta Paediatr** 1997 Feb; 86(2):209–12

Detection of serum interferon-alpha by dissociation-enhanced lanthanide fluoroimmunoassay. Studies of patients with acute viral and bacterial infections. Rönnblom LE, et al. **APMIS** 1997 Jul;105(7):531–6

Clinical pharmacokinetics and therapeutic efficacy of ceftriaxone in Chinese adults. Zhu Z, et al. **Chemotherapy** 1997 May-Jun;43(3):218–26

Detection of cytokine mRNA in unfractionated peripheral blood by reverse transcriptase polymerase chain reaction. Shimizu S, et al. **Eur J Surg** 1997 Jul;163(7):487–92

Plasma nitrate concentration in infective gastroenteritis and inflammatory bowel disease. Dykhuizen RS, et al. **Gut** 1996 Sep;39(3):393–5

Therapeutic monitoring, the concentration-effect relationship and impact on the clinical efficacy of antibiotic agents. Dawson SJ, et al. **J Chemother** 1997 May;9 Suppl 1:84–92 (52 ref.)

Clinical value of cytokine antagonists in infectious complications. Iwagaki H, et al. **Res Commun Mol Pathol Pharmacol** 1997 Apr;96(1):25–34

Plasminogen activation by invasive human pathogens. Boyle MD, et al. **Thromb Haemost** 1997 Jan;77(1):1–10 (135 ref.)

Enhanced (cytomegalovirus) viral replication associated with septic bacterial complications in liver transplant recipients. Mutimer D, et al. **Transplantation** 1997 May 27; 63(10):1411–5

CEREBROSPINAL FLUID

Shunt malfunction in relation to shunt infection. Vanaclocha V, et al. **Acta Neurochir (Wien)** 1996;138(7):829–34

Evaluation of febrile infants under 3 months of age: is routine lumbar puncture warranted? Brik R, et al. **Isr J Med Sci** 1997 Feb;33(2):93–7

CHEMICALLY INDUCED

Gastric acid, acid-suppressing drugs, and bacterial gastroenteritis: how much of a risk? Garcia Rodríguez LA, et al. **Epidemiology** 1997 Sep;8(5):571–4

[Pseudomembranous colitis and "intestinal sepsis" as a consequence of dysbacteriosis due to antibiotics] Eriukhin IA, et al. **Vestn Khir Im I I Grek** 1997;156(2):108–11 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

C-reactive protein in viral and bacterial gastroenteritis in childhood. Borgnolo G, et al. **Acta Paediatr** 1996 Jun; 85(6):670–4

Treating acute bronchitis with azithromycin [letter] Mosby JA. **Am Fam Physician** 1997 Feb 1;55(2):444, 447–8

Cryptosporidium infections in Mexican children: clinical, nutritional, enteropathogenic, and diagnostic evaluations. Javier Enriquez F, et al. **Am J Trop Med Hyg** 1997 Mar; 56(3):254–7

Spontaneous remission of acute myeloid leukemia after infection and blood transfusion associated with hypergammaglobulinaemia. Mitterbauer M, et al. **Ann Hematol** 1996 Oct;73(4):189–93

Bacterial colonization and healing of venous leg ulcers. Madsen SM, et al. **APMIS** 1996 Dec;104(12):895–9

Primary manifestation of Henoch-Schönlein purpura during immunosuppressive treatment [letter] Schwab M, et al. **Arch Dis Child** 1997 Aug;77(2):184–5

Primary skin infections. Hogan P. **Aust Fam Physician** 1997 Jun;26(6):661–3, 666–7, 669–71

Prevalence of gastrointestinal symptoms after bacterial gastroenteritis. Study did not include a control group [letter; comment] Barber R, et al. **BMJ** 1997 Jun 28; 314(7098):1903. Comment on: BMJ 1997 Mar 15;314(7083):779–82.

Prevalence of gastrointestinal symptoms after bacterial gastroenteritis. Bowel symptoms vary over time [letter; comment] Gorard D. **BMJ** 1997 Jun 28;314(7098):1902; discussion 1903. Comment on: BMJ 1997 Mar 15;314(7083):779–82.

Prevalence of gastrointestinal symptoms after bacterial gastroenteritis. Patients with the irritable bowel syndrome may underreport historical symptoms [letter; comment] Maxwell P, et al. **BMJ** 1997 Jun 28;314(7098):1902–3. Comment on: BMJ 1997 Mar 15;314(7083):779–82.

Endothelial "stunning" following a brief exposure to endotoxin: a mechanism to link infection and infarction? Bhagat K, et al. **Cardiovasc Res** 1996 Nov;32(5):822–9

Infections and the inflammatory response in acute respiratory distress syndrome. Headley AS, et al. **Chest** 1997 May; 111(5):1306–21

Lung abscess in patients with AIDS. Furman AC, et al. **Clin Infect Dis** 1996 Jan;22(1):81–5

Infections in solid-organ transplant recipients. Patel R, et al. **Clin Microbiol Rev** 1997 Jan;10(1):86–124 (800 ref.)

Infections causing fetal and infant deaths. **Commun Dis Rep CDR Wkly** 1996 Sep 6;6(36):311, 314

Immunological testing for occult blood in patients with acute infectious diarrhea. Can it improve the specificity of the guaiac test? Beltinger J, et al. **Dig Dis Sci** 1997 Feb; 42(2):366–71

Gastrospirillum hominis gastritis in a child with celiac sprue. Drewitz DJ, et al. **Dig Dis Sci** 1997 May;42(5):1083–6 (23 ref.)

Rupture of the membranes and postpartum infection. Novak-Antolič Z, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):141–6

Salvage of the septic ankle with concomitant tibial osteomyelitis. Thordarson DB, et al. **Foot Ankle Int** 1997 Mar;18(3):151–6

Antibiotics and pancreatitis. Foxx-Orenstein A, et al. **Gastroenterologist** 1997 Jun;5(2):157–64 (63 ref.)

Infected pancreatic necrosis complicated by multiple organ failure. Dominioni L, et al. **Hepatogastroenterology** 1997 Jul-Aug;44(16):968–74 (22 ref.)

Long-lasting NO overproduction in cirrhotic patients with spontaneous bacterial peritonitis. Bories PN, et al. **Hepatology** 1997 Jun;25(6):1328–33

Influence of malnutrition on the prevalence of bacterial translocation and spontaneous bacterial peritonitis in experimental cirrhosis in rats. Casafont F, et al. **Hepatology** 1997 Jun;25(6):1334–7

Pathogenesis of preterm labor and preterm premature rupture of membranes associated with intraamniotic infection. Gomez R, et al. **Infect Dis Clin North Am** 1997 Mar; 11(1):135–76 (220 ref.)

Microbiology of infected atopic dermatitis. Brook I, et al. **Int J Dermatol** 1996 Nov;35(11):791–3

Association between central nervous system infections during childhood and adult onset schizophrenia and other psychoses: a 28-year follow-up. Rantakallio P, et al. **Int J Epidemiol** 1997 Aug;26(4):837–43

Bacterial infections in HIV: the extent and nature of the problem [editorial] Brettle RP. **Int J STD AIDS** 1997 Jan;

8(1):5–15 (105 ref.)
Sepsis [editorial; comment] Kapadia F.
J Assoc Physicians India 1996 Jun;44(6):371–4. Comment on: J Assoc Physicians India 1996 Jun;44(6):407–14.
Use of ultrasonography in the detection of ureteric reflux in children suspected of having urinary infection. Hiraoka M, et al. **J Clin Ultrasound** 1997 May;25(4):195–9
Parasitological and bacteriological studies in recurrent diarrhoea in patients with chronic liver diseases. Younes TA, et al. **J Egypt Soc Parasitol** 1996 Dec;26(3):697–708
Hand infections in the diabetic patient. Pinzur MS, et al. **J Hand Surg [Br]** 1997 Feb;22(1):133–4
Hospital-acquired infections in patients with HIV/AIDS [letter] Rogues AM, et al. **J Hosp Infect** 1996 Dec; 34(4):333–6
Bacterial sinusitis associated with subacute, granulomatous thyroiditis [letter] Collazos J, et al. **J Infect** 1997 Mar; 34(2):158–9
Relative bradycardia in infectious diseases. Ostergaard L, et al. **J Infect** 1996 Nov;33(3):185–91
Infection and coronary heart disease. Ellis RW.
J Med Microbiol 1997 Jul;46(7):535–9 (44 ref.)
Shunt infections [letter; comment] Drake JM.
J Neurosurg 1996 Nov;85(5):985–6. Comment on: J Neurosurg 1996 Apr;84(4):617–23.
Nasal inflammation and chronic ear disease in Australian Aboriginal children. Gibson PG, et al.
J Paediatr Child Health 1996 Apr;32(2):143–7
Bone infarction versus infection in sickle cell disease in children. Dalton GP, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):540–4
Variation in the pattern of bacterial infection in patients with sickle cell disease requiring admission. Akuse RM.
J Trop Pediatr 1996 Dec;42(6):318–23
Associated infections in persistent diarrhoea--another perspective. Sibal A, et al. **J Trop Pediatr** 1996 Apr; 42(2):64–7
The genetic and bacteriological aspects of Peyronie's disease. Ralph DJ, et al. **J Urol** 1997 Jan;157(1):291–4
Musculoskeletal infections in patients with human immunodeficiency virus infection. Vassilopoulos D, et al. **Medicine (Baltimore)** 1997 Jul;76(4):284–94 (129 ref.)
Pathogenesis of bacterial bronchitis in cystic fibrosis. Smith A. **Pediatr Infect Dis J** 1997 Jan;16(1):91–5; discussion 95–6, 123–6 (14 ref.)
Varicella pneumonitis in a child undergoing CAPD [letter] Tsai TC, et al. **Perit Dial Int** 1996 Mar–Apr;16(2):192–3
Eczema: a rational approach. Woodrow S, et al.
Practitioner 1996 Nov;240(1568):628–30, 632–3
Spontaneous neutrocytic hepatic hydrothorax without ascites. Abba AA, et al. **Respir Med** 1996 Nov;90(10):631–4
Open versus closed treatment of necrotizing pancreatitis. Savino JA, et al. **Shock** 1996;6 Suppl 1:S65–70
Influence of antibiotics on posttransfusion platelet increment. Böck M, et al. **Transfusion** 1996 Nov–Dec;36(11–12):952–4 (12 ref.)
Infection concomitant with pediatric renal allograft rejection. Acott PD, et al. **Transplantation** 1996 Sep 15;62(5):689–91
[Seminal obstructions of the inflammatory origin] Mantovani F, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):347–52 (Eng. Abstr.) **(Ita)**
[Relationship between virus and bacterial infections--with special reference to respiratory tract infections] Nagatake T, et al. **Nippon Naika Gakkai Zasshi** 1997 Mar 10; 86(3):491–5 (10 ref.) **(Jpn)**
[Tubulointerstitial nephritis induced by chronic bacterial infection] Hirose T. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):278–80 (11 ref.) **(Jpn)**
[Etiological non-homogeneity of subacute thyroiditis] Kr'stev I, et al. **Klin Med (Mosk)** 1996;74(7):36–7 **(Rus)**
[Craniofacial subcutaneous emphysema] Serrat Soto A, et al. **Rev Clin Esp** 1996 Dec;196(12):857–8 **(Spa)**
[The pathogenetic role of dysbacteriosis of the large intestine in the recurrence of peptic ulcer] Andrusiak OV, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):49–51 (Eng. Abstr.) **(Ukr)**

DIAGNOSIS

Value of Gram's stain of cell block material from peritoneal fluid in bacterial peritonitis. Renshaw AA, et al.
Acta Cytol 1997 May–Jun;41(3):755–8
Clenched fist injury: a pitfall for patients and surgeons. De Smet L, et al. **Acta Orthop Belg** 1997 Jun;63(2):113–7
Bacteriological findings and persistence of middle ear effusion in otitis media with effusion. Jero J, et al.
Acta Otolaryngol Suppl (Stockh) 1997;529:22–6
Clinical and microbiological analysis of six children with acute suppurative parotitis. Chiu CH, et al.
Acta Paediatr 1996 Jan;85(1):106–8
Fast fluid-attenuated inversion-recovery MR of intracranial infections. Tsuchiya K, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):909–13
Neonatal fever: utility of the Rochester criteria in determining low risk for serious bacterial infections. Ferrera PC, et al. **Am J Emerg Med** 1997 May; 15(3):299–302
Bacteriological method for detecting small intestinal hypomotility. Riordan SM, et al. **Am J Gastroenterol** 1996 Nov;91(11):2399–405
Small intestinal bacterial overgrowth in the symptomatic elderly. Riordan SM, et al. **Am J Gastroenterol** 1997 Jan; 92(1):47–51
Utility of bone marrow culture and biopsy in the diagnosis of disseminated infections in AIDS. Keiser P, et al.
Am J Hematol 1997 Sep;56(1):1–4
Bacterial osteomyelitis in adults: evolving considerations in diagnosis and treatment. Hass DW, et al. **Am J Med** 1996 Nov;101(5):550–61 (117 ref.)
Occult blood versus fecal leukocytes in the diagnosis of bacterial diarrhea: a study of U.S. travelers to Mexico and Mexican children. McNeely WS, et al.
Am J Trop Med Hyg 1996 Oct;55(4):430–3
Domain-directed polymerase chain reaction capable of distinguishing bacterial from host DNA at the single-cell level: characterization of a systematic method to investigate putative bacterial infection in idiopathic disease. Steinman CR, et al. **Anal Biochem** 1997 Jan 15;244(2):328–39
The contribution of pathological examination of the placenta in the investigation of the causes of foetal mortality. Agapitos E, et al. **Arch Anat Cytol Pathol** 1996;44(1):5–11
Usefulness of procalcitonin for differentiation between activity of systemic autoimmune disease (systemic lupus erythematosus/systemic antineutrophil cytoplasmic antibody-associated vasculitis) and invasive bacterial infection. Eberhard OK, et al. **Arthritis Rheum** 1997 Jul; 40(7):1250–6
Molecular diagnosis of microbial infections. Blum HE.
Biologicals 1996 Sep;24(3):193–5 (10 ref.)
Chronic infection mimicking antral carcinoma [letter] Dunstan S. **Br J Oral Maxillofac Surg** 1996 Apr;34(2):200–1
Bacterial complications of primary varicella in children. Aebi C, et al. **Clin Infect Dis** 1996 Oct;23(4):698–705
Infectious complications in left ventricular assist device recipients. Fischer SA, et al. **Clin Infect Dis** 1997 Jan; 24(1):18–23
Broad-spectrum bacterial rDNA polymerase chain reaction assay for detecting amniotic fluid infection among women in premature labor. Hitti J, et al. **Clin Infect Dis** 1997 Jun; 24(6):1228–32
Spontaneous bacterial empyema in a patient with hepatitis C virus cirrhosis and sterile ascitic fluid. Malnick SD, et al. **Clin Infect Dis** 1996 Oct;23(4):834–5
Rejection criteria for endotracheal aspirates in neonates. Clinical impact. Rand KH. **Diagn Microbiol Infect Dis** 1997 Mar;27(3):55–61
Biliary interleukin-6 and tumor necrosis factor-alpha in patients undergoing endoscopic retrograde cholangiopancreatography. Rosen HR, et al.
Dig Dis Sci 1997 Jun;42(6):1290–4
Garderella vaginalis bacteremia in an adult male [letter] Bastida Vilá MT, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):400–1
First reported African case of Anaerobiospirillum succiniciproducens septicemia. Marcus L, et al.
Eur J Clin Microbiol Infect Dis 1996 Sep;15(9):741–4 (12 ref.)
A predictive model to estimate the risk of serious bacterial infections in febrile infants. Berger RM, et al.
Eur J Pediatr 1996 Jun;155(6):468–73
The clinical significance of rigors in febrile children. Tal Y, et al. **Eur J Pediatr** 1997 Jun;156(6):457–9
Pyogenic infectious spondylitis: clinical, laboratory and MRI features. Kapeller P, et al. **Eur Neurol** 1997;38(2):94–8
Bacterial colonization of distal airways in healthy subjects and chronic lung disease: a bronchoscopic study. Cabello H, et al. **Eur Respir J** 1997 May;10(5):1137–44
Amniotic fluid gram stain and leukocyte count in the prediction of intrauterine infection in preterm prelabour amniorrhexis. Carroll SG, et al. **Fetal Diagn Ther** 1996 Jan–Feb;11(1):1–5
Results of culture form colonoscopically obtained specimens for bacteria and fungi in HIV-infected patients with diarrhea. Beaugerie L, et al. **Gastrointest Endosc** 1996 Dec; 44(6):663–6
Proceedings of the XIIIth International Convocation on Immunology. Immunological and Molecular Diagnosis of Infectious Disease. Buffalo, New York, June 1–5, 1996. **Immunol Invest** 1997 Jan–Feb;26(1–2):xi–xii, 3–295
Rapid diagnosis of periodontal infections: findings in AIDS patients. Zambon JJ. **Immunol Invest** 1997 Jan–Feb; 26(1–2):55–65 (45 ref.)
Procalcitonin, a marker of bacterial infection [editorial] Gendrel D, et al. **Infection** 1997 May–Jun;25(3):133–4
Infected primary hydatid cyst of retroperitoneum. Ozdemir E. **Int J Urol** 1996 May;3(3):237–9
Pyogenic vertebral osteomyelitis. Carragee EJ.
J Bone Joint Surg Am 1997 Jun;79(6):874–80
Evaluation of sinus-track cultures in chronic bone infection. Mousa HA. **J Bone Joint Surg Br** 1997 Jul;79(4):567–9
Defining the unknown: molecular methods for finding new microbes. Wagar EA. **J Clin Lab Anal** 1996;10(6):331–4 (25 ref.)
Diagnosis of triple-lumen catheter infection: comparison of roll plate, sonication, and flushing methodologies. Sherertz RJ, et al. **J Clin Microbiol** 1997 Mar;35(3):641–6
Use of the isolator 1.5 microbial tube for culture of synovial fluid from patients with septic arthritis. Yagupsky P, et al. **J Clin Microbiol** 1997 Sep;35(9):2410–2
Use of prototype automated blood culture system and gas-liquid chromatography for the analysis of continuous ambulatory peritoneal dialysis associated infection. Catchpole CR, et al. **J Clin Pathol** 1997 Mar;50(3):241–4
Molecular diagnostics for dairy-borne pathogens. Batt CA.
J Dairy Sci 1997 Jan;80(1):220–9 (39 ref.)
Early microbiologic diagnosis of spontaneous bacterial peritonitis with BacT/ALERT. Ortiz J, et al.
J Hepatol 1997 Apr;26(4):839–44
Value of surveillance cultures in a bone marrow transplantation unit. Czirók E, et al. **J Med Microbiol** 1997 Sep;46(9):785–91
Evaluation of interleukin-6 and soluble receptors of tumor necrosis factor for early diagnosis of neonatal infection. Messer J, et al. **J Pediatr** 1996 Oct;129(4):574–80
Predictors of bacterial infection in neonates [letter; comment] Wilson DC, et al. **J Pediatr** 1997 Jan;130(1):166. Comment on: J Pediatr 1996 Jun;128(6):765–9.
Bone infarction versus infection in sickle cell disease in children. Dalton GP, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):540–4
Intracranial bacterial infections in patients with AIDS. Cohen WA. **Neuroimaging Clin N Am** 1997 May;7(2):223–9 (41 ref.)
Contemporary issues in the management of pediatric infections. Helwig H. **Pediatr Infect Dis J** 1997 Mar;16(3 Suppl):S39–42 (19 ref.)
Role of bacterial antigen tests in the diagnosis of invasive bacterial infections. Marshall GS. **Pediatr Infect Dis J** 1997 Jun;16(6):632–3
Interleukin 6 in neonates with early and late onset infection. Panero A, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):370–5
Expression of MxA protein in blood lymphocytes discriminates between viral and bacterial infections in febrile children. Halminen M, et al. **Pediatr Res** 1997 May; 41(5):647–50
Managing fever in infants and toddlers: toward a standard of care. Lopez JA, et al. **Postgrad Med** 1997 Feb; 101(2):241–2, 245–52 (24 ref.)
Infectious discitis diagnostic contribution of laboratory tests and percutaneous discovertebral biopsy. Fouquet B, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):24–9 (22 ref.)
Capillary plasma neutrophil elastase alpha-1-proteinase inhibitor as infection parameter in neonates. Jensen JG, et al. **Scand J Clin Lab Invest** 1996 Feb;56(1):37–40
Diagnosis of pulmonary infections in immunocompromised patients by fiber-optic bronchoscopy with bronchoalveolar lavage and serology. Eriksson BM, et al.
Scand J Infect Dis 1996;28(5):479–85
The clinical use of magnetic resonance imaging in pyogenic vertebral osteomyelitis. Carragee EJ. **Spine** 1997 Apr 1; 22(7):780–5
Epidural spinal infection. Variability of clinical and magnetic resonance imaging findings. Küker W, et al. **Spine** 1997 Mar 1;22(5):544–50; discussion 551
A definition of catheter-related infection. Bach A.
Zentralbl Bakteriol 1995 Dec;283(2):140–4 (8 ref.)
Diagnosis of catheter-related infections. Geiss HK.
Zentralbl Bakteriol 1995 Dec;283(2):145–53 (43 ref.)
The role of nuclear medicine in diagnosis of catheter-related infections. Scheidhauer K, et al. **Zentralbl Bakteriol** 1995 Dec;283(2):154–60 (14 ref.)
[A direct microscopic preparation of the gastric aspirate is an aid in the diagnosis of congenital neonatal infection] Shopova E. **Akush Ginekol (Sofiia)** 1996;35(3):17–9 (Eng. Abstr.) **(Bul)**
[Does laparoscopy increase the bacteriological risk of appendectomy? Results of a randomized prospective study] Sezeur A, et al. **Ann Chir** 1997;51(3):243–7 (Eng. Abstr.) **(Fre)**
[Management of febrile infants under 3 years old] Lepage P. **Rev Med Brux** 1996 Sep;17(4):256–9 (Eng. Abstr.) **(Fre)**
[Examination of the febrile young child] Scalfaro P, et al. **Rev Med Suisse Romande** 1996 Oct;116(10):773–8 **(Fre)**
[Infections of the cervical spine] Heindel W, et al.
Aktuelle Radiol 1996 Nov;6(6):308–16 (Eng. Abstr.) **(Ger)**
[Diagnostic strategies in rheumatology. 3: General laboratory diagnosis--detection of pathogenic infections] Genth E. **Fortschr Med** 1997 Apr 10;115(10):42, 45 **(Ger)**
[Bacterial brain abscess--experiences with 67 patients] Berlit P, et al. **Fortschr Neurol Psychiatr** 1996 Aug;64(8):297–306 (55 ref.) (Eng. Abstr.) **(Ger)**
[Possibilities and limits of molecular genetic detection methods in medical microbiology. Wishful thinking and reality] Göbel UB. **Internist (Berl)** 1996 Sep;37(9):919–25 (24 ref.) **(Ger)**
[Use of a PCR-oriented method for early detection of nosocomial infections in surgical intensive care patients] Dumon K, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:369–72 (Eng. Abstr.) **(Ger)**
[Secretory phospholipase A-II identifies patients with a high risk for infected necroses in acute pancreatitis] Mayer JM, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:417–23 (Eng. Abstr.) **(Ger)**
[Infectious spondylitis in adults] Vorbeck F, et al.
Radiologe 1996 Oct;36(10):795–804 (17 ref.) (Eng. Abstr.) **(Ger)**
[Diagnosis and therapy of splenic abscess exemplified by 3 unusual cases] Riediger H, et al. **Rontgenpraxis** 1997 Aug; 50(8):233–7 **(Ger)**
[Diagnosis of obstetrical-gynecological infectious diseases using PCR] Fujita Y, et al.
Nippon Sanka Fujinka Gakkai Zasshi 1996 Aug; 48(8):769–80 (29 ref.) **(Jpn)**
[Usefulness of counting leukocytes and round cells in

determination of bacterial infection of semen in infertile men] Jędrzejczak P, et al. **Ginekol Pol** 1996 Nov; 67(11):569–73 (Eng. Abstr.) **(Pol)**

[Sepsis—a generalized infection. Etiopathogenetic, diagnostic and clinical problems in adults based on personal experiences] Olejnik Z, et al. **Pol Tyg Lek** 1996 Jun; 51(23–26):318–20,323 (Eng. Abstr.) **(Pol)**

[PCR—a new era in clinical microbiologic diagnosis and epidemiologic studies? (Part II)] Kur J, et al. **Przegl Epidemiol** 1996;50(3):227–37 (124 ref.) (Eng. Abstr.) **(Pol)**

[Purulent pericarditis. A 10-year retrospective study] Garcia P, et al. **Rev Port Cardiol** 1997 May;16(5):457–60, 441 (Eng. Abstr.) **(Por)**

[Evaluation of the sensitivity and specificity of methods of rapid diagnosis in bacterial vaginosis] Ankirskaia AS, et al. **Klin Lab Diagn** 1997 Jul;(7):41–5 (Eng. Abstr.) **(Rus)**

[Improvement of microbiological diagnosis of dysbacteriosis] Raevskiĭ KK, et al. **Vestn Ross Akad Med Nauk** 1997; (3):13–6 (11 ref.) (Eng. Abstr.) **(Rus)**

[Infections with cutaneous and nervous system alterations] Losada-Campa A, et al. **Rev Neurol** 1997 Sep;25 Suppl 3:S281–93 (76 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Antibiotics and the host-parasite relationship (a short review). Gemmell CG. **Acta Microbiol Immunol Hung** 1996;43(2–3):107–14 (17 ref.)

New drug effects on bacteria, the antiplasmid effect. Molnár J. **Acta Microbiol Immunol Hung** 1997;44(1):21–6 (40 ref.)

Pharmacokinetics of antibiotics in children. Toyonaga Y. **Acta Paediatr Jpn** 1997 Feb;39(1):114–23

Molecular epidemiologic analysis of antibiotic resistant microorganisms. John JF Jr. **Adv Exp Med Biol** 1995; 390:155–68 (56 ref.)

Antimicrobial resistance: a global perspective. Levy SB. **Adv Exp Med Biol** 1995;390:1–13 (42 ref.)

Role of newer broad-spectrum beta-lactam and fluoroquinolone antibiotics in children. Bonafede ME, et al. **Adv Pediatr Infect Dis** 1996;12:71–108 (124 ref.)

Treatment of CAPD-related peritonitis with ciprofloxacin: results after seven years. Bouza P, et al. **Adv Perit Dial** 1996;12:185–8

Control of infections caused by drug-resistant organisms in critical care. Hoppe B. **Am J Crit Care** 1997 Mar;6(2):141–4

Meropenem marketed for meningitis, intra-abdominal infection [news] **Am J Health Syst Pharm** 1996 Aug 15; 53(16):1885

Antimicrobials prescribed for otitis media in a pediatric Medicaid population. White LL, et al. **Am J Health Syst Pharm** 1996 Dec 15;53(24):2963–9

Microbial resistance to drug therapy: a review. Cohen FL, et al. **Am J Infect Control** 1997 Feb;25(1):51–64 (114 ref.)

Meta-analysis of the clinical outcome of carbapenem monotherapy in the adjunctive treatment of intra-abdominal infections. Chang DC, et al. **Am J Surg** 1997 Sep;174(3):284–90

Antimicrobial therapy for intraabdominal infection. Nathens AB, et al. **Am J Surg** 1996 Dec;172(6A):1S–6S (27 ref.)

Corneal ulcers in two institutions in Singapore: analysis of causative factors, organisms and antibiotic resistance. Tan DT, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):823–9

Vancomycin resistance: when failure becomes an opportunity for leadership. Edmiston CE Jr. **Ann Pharmacother** 1996 Jun;30(6):680–2

Comparison of cefprozil, cefpodoxime proxetil, loracarbef, cefixime, and ceftibuten. Schatz BS, et al. **Ann Pharmacother** 1996 Mar;30(3):258–68 (122 ref.)

In vivo activities of U-100592 and U-100766, novel oxazolidinone antimicrobial agents, against experimental bacterial infections. Ford CW, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1508–13

Comparative effectiveness and safety of cefdinir and amoxicillin-clavulanate in treatment of acute community-acquired bacterial sinusitis. Cefdinir Sinusitis Study Group. Gwaltney JM Jr, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1517–20

The population dynamics of antimicrobial chemotherapy. Lipsitch M, et al. **Antimicrob Agents Chemother** 1997 Feb; 41(2):363–73

In vitro and in vivo antibacterial activities of CS-940, a new 6-fluoro-8-difluoromethoxy quinolone. Masuda N, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1201–7

In vitro and in vivo antibacterial activities of ER-35786, a new antipseudomonal carbapenem. Ohba F, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):298–307

Protegrin-1: a broad-spectrum, rapidly microbicidal peptide with in vivo activity. Steinberg DA, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1738–42

Bacterial resistance to antibiotics in acute respiratory infections (ARIs). López-Antuñano FJ, et al. **Arch Med Res** 1997 Summer;28(2):195–203 (36 ref.)

Penetration of antibiotics in diseased antral mucosa. Westergren V, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec;122(12):1390–4

Treatment of an acute bacterial infection with a combination of acetylsalicylic acid/ibuprofen and interferon gamma. Hockertz S, et al. **Arzneimittelforschung** 1996 Oct; 46(10):1012–5

Cytokines and bacterial infections. Degré M. **Biotherapy** 1996;8(3–4):219–28 (77 ref.)

Community-acquired lower respiratory tract infection: implementation of an antibiotic protocol. Menown IB, et al. **Br J Clin Pract** 1997 Mar;51(2):74–7

Advances in medical and antibiotic management of infective endocarditis. Kubak BM, et al. **Cardiol Clin** 1996 Aug; 14(3):405–36 (205 ref.)

Antifungal and immunoadjuvant properties of fluconazole in mice immunosuppressed with morphine. Di Francesco P, et al. **Chemotherapy** 1997 May-Jun;43(3):198–203

Quinolones in gastrointestinal infections. Graninger W, et al. **Chemotherapy** 1996 Mar;42 Suppl 1:43–53 (84 ref.)

The place of quinolones in everyday clinical practice. Moellering RC Jr. **Chemotherapy** 1996 Mar;42 Suppl 1:54–61 (18 ref.)

The contribution of antibiotic use on the frequency of antibiotic resistance in hospitals. Gaynes R, et al. **Ciba Found Symp** 1997;207:47–56; discussion 56–60 (40 ref.)

The effect of monitoring of antibiotic use on decreasing antibiotic resistance in the hospital. Giamarellou H, et al. **Ciba Found Symp** 1997;207:76–86; discussion 86–92 (15 ref.)

The relationship between erythromycin consumption and resistance in Finland. Finnish Study Group for Antimicrobial Resistance. Huovinen P, et al. **Ciba Found Symp** 1997;207:36–41; discussion 41–6 (12 ref.)

The within-host population dynamics of antibacterial chemotherapy: conditions for the evolution of resistance. Lipsitch M, et al. **Ciba Found Symp** 1997;207:112–27; discussion 127–30 (27 ref.)

Monitoring and management of bacterial resistance to antimicrobial agents: a World Health Organization symposium. Geneva, Switzerland, 29 November-2 December, 1995. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S1–176

New fluoroquinolones and anaerobic infections. Symposium proceedings. San Juan, Puerto Rico, November 1995. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S1–106

Use of meropenem in the treatment of serious infections in children: review of the current literature. Arrieta A. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S207–12 (51 ref.)

Strategies for the rational use of antimicrobials. Couper MR. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S154–6

The pharmacology of meropenem, a new carbapenem antibiotic. Craig WA. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S266–75 (62 ref.)

Control of nosocomial antimicrobial-resistant bacteria: a strategic priority for hospitals worldwide. Goldmann DA, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S139–45

Possible role for the new fluoroquinolones (levofloxacin, grepafloxacin, trovafloxacin, clinafloxacin, sparfloxacin, and DU-6859a) in the treatment of anaerobic infections: review of current information on efficacy and safety. Goldstein EJ. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S25–30 (41 ref.)

Empirical treatment of febrile neutropenia: evolution of current therapeutic approaches. Hathorn JW, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S256–65 (72 ref.)

A multicenter study comparing intravenous meropenem with clindamycin plus gentamicin for the treatment of acute gynecologic and obstetric pelvic infections in hospitalized women. Hemsell DL, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S222–30

Approaches to limiting emergence of antimicrobial resistance in bacteria in human populations. Hughes JM, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S131–5 (43 ref.)

Bacteriology of dentoalveolar abscesses in patients who have received empirical antibiotic therapy. Külekçi G, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S51–3

Sulbactam/cefoperazone versus cefotaxime for the treatment of moderate-to-severe bacterial infections: results of a randomized, controlled clinical trial. Li JT, et al. **Clin Infect Dis** 1997 Mar;24(3):498–505

Cost-effectiveness of ampicillin/sulbactam versus imipenem/cilastatin in the treatment of limb-threatening foot infections in diabetic patients. McKinnon PS, et al. **Clin Infect Dis** 1997 Jan;24(1):57–63

Pharmacokinetics of meropenem in animals, healthy volunteers, and patients. Moon YS, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S249–55 (44 ref.)

Antimicrobial resistance in anaerobes. Rasmussen BA, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S110–20 (123 ref.)

Overgrowth of Enterococcus faecium in the feces of patients with hematologic malignancies. Suppola JP, et al. **Clin Infect Dis** 1996 Oct;23(4):694–7

Safety and efficacy of cefprozil as part of a parenteral-oral antibiotic regimen for the treatment of suppurative skeletal infections in children. Trujillo M, et al. **Clin Infect Dis** 1996 Oct;23(4):843

Oral ciprofloxacin to treat bacterial peritonitis associated with peritoneal dialysis [letter] Leblanc M. **Clin Nephrol** 1997 May;47(5):350

Antibacterial therapy in pregnancy and neonates. Edwards MS. **Clin Perinatol** 1997 Mar;24(1):251–66 (78 ref.)

Erythromycin, clarithromycin, and azithromycin: are the differences real? Amsden GW. **Clin Ther** 1996 Jan-Feb; 18(1):56–72; discussion 55 (63 ref.)

Recent advances in antibiotic regimens for the treatment of obstetric-gynecologic infections. Zambrano D. **Clin Ther** 1996 Mar-Apr;18(2):214–27; discussion 213 (72 ref.)

A case-based consiliarius for therapy recommendation (ICONS): computer-based advice for calculated antibiotic therapy in intensive care medicine. Heindl B, et al. **Comput Methods Programs Biomed** 1997 Feb;52(2):117–27

Use of granulocyte colony-stimulating factor in the treatment of acute infectious diseases. Stoltz DA, et al. **Curr Opin Hematol** 1997 May;4(3):207–12 (31 ref.)

Efficacy of beta-lactam antibiotics: integration of pharmacokinetics and pharmacodynamics. Cars O. **Diagn Microbiol Infect Dis** 1997 Jan-Feb;27(1–2):29–33 (16 ref.)

The future—can we learn from the past? Craig WA. **Diagn Microbiol Infect Dis** 1997 Jan-Feb;27(1–2):49–53 (11 ref.)

Alexander Project Symposium. The Hague, Netherlands. November 1–3, 1995. Introduction. Schito GC. **Diagn Microbiol Infect Dis** 1996 Aug;25(4):151–2

Augmentin reconsidered. **Drug Ther Bull** 1996 Oct; 34(10):76–8 (27 ref.)

Aminoglycosides once daily? **Drug Ther Bull** 1997 May; 35(5):36–7 (24 ref.)

Imipenem/cilastatin: an update of its antibacterial activity, pharmacokinetics and therapeutic efficacy in the treatment of serious infections. Balfour JA, et al. **Drugs** 1996 Jan; 51(1):99–136 (281 ref.)

Cefotaxime. A reappraisal of its antibacterial activity and pharmacokinetic properties, and a review of its therapeutic efficacy when administered twice daily for the treatment of mild to moderate infections. Brogden RN, et al. **Drugs** 1997 Mar;53(3):483–510 (220 ref.)

Antibiotic treatment of febrile episodes in neutropenic cancer patients. Clinical and economic considerations. de Lalla F. **Drugs** 1997 May;53(5):789–804 (103 ref.)

Optimum treatment of intracellular infection. Maurin M, et al. **Drugs** 1996 Jul;52(1):45–59 (127 ref.)

Combination antimicrobial therapy for bacterial infections. Guidelines for the clinician. Rybak MJ, et al. **Drugs** 1996 Sep;52(3):390–405 (110 ref.)

Grepafloxacin. Wagstaff AJ, et al. **Drugs** 1997 May; 53(5):817–24; discussion 825–7 (39 ref.)

Cefpirome. A review of its antibacterial activity, pharmacokinetic properties and clinical efficacy in the treatment of severe nosocomial infections and febrile neutropenia. Wiseman LR, et al. **Drugs** 1997 Jul; 54(1):117–40 (134 ref.)

Rational approach to limiting emergence of antimicrobial drug resistance. Mbori-Ngacha DA. **East Afr Med J** 1997 Mar;74(3):187–9 (19 ref.)

WHO Scientific Working Group on monitoring and management of bacterial resistance to antimicrobial agents. Tenover FC, et al. **Emerg Infect Dis** 1995 Jan-Mar;1(1):37

Once-daily gentamicin: translating theory into practice. Cunningham R, et al. **Eur J Clin Pharmacol** 1996; 50(3):151–4 (28 ref.)

Efficacy and tolerability of brodimoprim at two different dosage schedules in the treatment of acute uncomplicated bacterial cystitis: comparative study vs. pefloxacin. Cosmi EV, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Feb; 64(2):207–11

Antibiotics and pancreatitis. Foxx-Orenstein A, et al. **Gastroenterologist** 1997 Jun;5(2):157–64 (63 ref.)

Treatment of spontaneous bacterial peritonitis with oral ofloxacin: inpatient or outpatient therapy? [editorial; comment] García-Tsao G. **Gastroenterology** 1996 Oct; 111(4):1147–50. Comment on: Gastroenterology 1996 Oct;111(4):1011–7.

Randomized, comparative study of oral ofloxacin versus intravenous cefotaxime in spontaneous bacterial peritonitis [see comments] Navasa M, et al. **Gastroenterology** 1996 Oct; 111(4):1011–7. Comment in: Gastroenterology 1996 Oct;111(4):1147–50.

Phagocyte chemiluminescence in pre-term infants. Pierce LA, et al. **Int J Clin Lab Res** 1996;26(2):112–8

Dosage adjustment of antiinfective therapy in patients with renal impairment. Eckhardt A, et al. **Int J Clin Pharmacol Ther** 1997 Mar;35(3):99–102

Use of flurythromycin ethylsuccinate in infections of lower airways due to sensitive germs: multicenter comparative study with clarithromycin. Vagliasindi M. **Int J Clin Pharmacol Ther** 1997 Jun;35(6):245–9

Significance and treatment of asymptomatic bacteriuria during pregnancy. Hall DR, et al. **Int J Gynaecol Obstet** 1997 May;57(2):179–80

Evaluation of antimicrobial drugs for acute otitis media [editorial] Shurin PA. **Int J Pediatr Otorhinolaryngol** 1996 Feb;34(3):219–23

Is G-CSF safe and useful in the treatment of infectious diseases in the non-neutropenic host? [editorial; comment] Pajkrt D, et al. **Intensive Care Med** 1997 Jan;23(1):1–2. Comment on: Intensive Care Med 1997 Jan;23(1):16–22.

Acute bacterial peritonitis: permeability of cephalosporins in the peritoneal cavity. Eyal A, et al. **Isr J Med Sci** 1996 Dec;32(12):1317–9

Why do patients with infection remain in hospital once changed to oral antibiotics? [letter] Boyter AC, et al. **J Antimicrob Chemother** 1997 Feb;39(2):286–8

Intravenous meropenem versus imipenem/cilastatin in the treatment of serious bacterial infections in hospitalized patients. Meropenem Serious Infection Study Group. Colardyn F, et al. **J Antimicrob Chemother** 1996 Sep; 38(3):523–37

'Cost-effectiveness'—is it always effective? [letter] Dorrian I, et al. **J Antimicrob Chemother** 1997 Feb;39(2):286

Once-daily dosing of aminoglycosides: review and recommendations for clinical practice. Freeman CD, et al. **J Antimicrob Chemother** 1997 Jun;39(6):677–86 (75 ref.)

Veterinary use of antimicrobial agents and problems of resistance in human bacterial infections [letter; comment] Johnson AP. **J Antimicrob Chemother** 1997 Feb;39(2):285–6 . Comment on: J Antimicrob Chemother 1996 Jul;38(1):1–3.

Safe intravenous antibiotic therapy at home: experience of a UK based programme. Kayley J, et al. **J Antimicrob Chemother** 1996 May;37(5):1023–9

In–vitro activity of teicoplanin and ceftriaxone in combination against pathogens involved in paediatric bone and joint infections. Lhopital S, et al. **J Antimicrob Chemother** 1996 Oct;38(4):713–8

A multi–centre study to compare meropenem and cefotaxime and metronidazole in the treatment of hospitalized patients with serious infections. Mehtar S, et al. **J Antimicrob Chemother** 1997 May;39(5):631–8

Concentration of teicoplanin in the serum of adults with end stage chronic renal failure undergoing treatment for infection. Mercatello A, et al. **J Antimicrob Chemother** 1996 May;37(5):1017–21

Teicoplanin versus flucloxacillin in the treatment of infection following burns. Steer JA, et al. **J Antimicrob Chemother** 1997 Mar;39(3):383–92

Efficacy of sulbactam–ampicillin for the treatment of severe diabetic foot infections. Akova M, et al. **J Chemother** 1996 Aug;8(4):284–9

Interactions among antibiotics, bacteria and the human immune system: the clinical relevance of in vitro testing. Bergogne–Berezin E. **J Chemother** 1997 May;9 Suppl 1:109–15 (26 ref.)

Therapeutic monitoring, the concentration–effect relationship and impact on the clinical efficacy of antibiotic agents. Dawson SJ, et al. **J Chemother** 1997 May;9 Suppl 1:84–92 (52 ref.)

Clinical evaluation of cefpodoxime proxetil in patients with dermatological infections. Imaizumi T, et al. **J Chemother** 1995 Nov;7 Suppl 4:137–41

A multi–institutional study on clinical effectiveness of cefpodoxime proxetil dry syrup in childhood infections. Imanaka H, et al. **J Chemother** 1995 Nov;7 Suppl 4:131–3

Microbiological and clinical studies on cefpodoxime proxetil for bacterial skin and soft tissue infections in pediatric patients. Ito K, et al. **J Chemother** 1995 Nov;7 Suppl 4:124–6

Randomized trial comparing netilmicin plus imipenem–cilastatin versus netilmicin plus ceftazidime as empiric therapy for febrile neutropenic bone marrow transplant recipients. Laszlo D, et al. **J Chemother** 1997 Apr;9(2):95–101

Evaluation of cefpodoxime proxetil dry syrup in pediatric patients with various infections. Muranaka H, et al. **J Chemother** 1995 Nov;7 Suppl 4:127–30

Amikacin as first–choice aminoglycoside in a medical intensive care unit: a one–year bacteriological surveillance study. Peetermans WE, et al. **J Chemother** 1996 Feb; 8(1):17–24

Once–a–day therapy of cefpodoxime proxetil for respiratory tract infections. Sawae Y, et al. **J Chemother** 1995 Nov; 7 Suppl 4:134–6

In vitro antibiotic sensitivity testing breakpoints and therapeutic activity in induced infections in animal models. Soriano F, et al. **J Chemother** 1997 May;9 Suppl 1:36–46 (60 ref.)

Clinical evaluation of cefpodoxime proxetil dry syrup in pediatric cutaneous bacterial infection. Terui T, et al. **J Chemother** 1995 Nov;7 Suppl 4:119–21

The importance of in–vitro susceptibility testing in the management of compromised hosts. Venditti M, et al. **J Chemother** 1997 May;9 Suppl 1:116–22 (23 ref.)

Cefotaxime in the treatment of prophylaxis of surgical infections. Wittmann DH, et al. **J Chemother** 1997 May;9 Suppl 2:19–33 (70 ref.)

Full– versus partial–mouth disinfection in the treatment of periodontal infections. A pilot study: long–term microbiological observations. Bollen CM, et al. **J Clin Periodontol** 1996 Oct;23(10):960–70

Endotoxin and IL–1 hyporesponsiveness in a patient with recurrent bacterial infections. Kuhns DB, et al. **J Immunol** 1997 Apr 15;158(8):3959–64

Parenteral ciprofloxacin in persistent diarrhoea in children. Ghosh G, et al. **J Indian Med Assoc** 1995 Oct;93(10):382, 384

Dual use of silver for management of chronic bone infections and infected non–unions. Nand S, et al. **J Indian Med Assoc** 1996 Mar;94(3):91–5

Management of port infections. Simpson KR. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):591–3 (8 ref.)

Pharmacokinetics and clinical effects of cefozopran in pediatric patients. Fujii R, et al. **Jpn J Antibiot** 1996 Jan; 49(1):17–33

Healing of duodenal ulcer after eradication of Helicobacter heilmannii [letter] Goddard AF, et al. **Lancet** 1997 Jun 21; 349(9068):1815–6

Antibiotic treatment in acute bacterial sinusitis [letter; comment] Lindbaek M, et al. **Lancet** 1997 May 17; 349(9063):1476; discussion 1476–7. Comment on: Lancet 1997 Mar 8;349(9053):683–7.

Antibiotic treatment in acute bacterial sinusitis [letter; comment] Philpot CR. **Lancet** 1997 May 17;349(9063):1476; discussion 1476–7. Comment on: Lancet 1997 Mar 8;349(9053):683–7.

Abandoning empirical antibiotics for febrile children [letter] Pollard AJ, et al. **Lancet** 1997 Sep 13;350(9080):811–2

Rational antibiotic therapy for intra–abdominal infections. Quinn JP. **Lancet** 1997 Feb 22;349(9051):517–8

Antibiotic resistance in respiratory tract pathogens: clinical and therapeutic consequences. Proceedings of a symposium. Stockholm, Sweden, October 31–November 1, 1994. **Microb Drug Resist** 1995 Summer;1(2):101–167

Quinupristin/dalfopristin: spectrum of activity, pharmacokinetics, and initial clinical experience. Low DE. **Microb Drug Resist** 1995 Fall;1(3):223–34 (74 ref.)

Drug–resistant bacteria: responding to the infectious disease crisis. Jack DB. **Mol Med Today** 1996 Dec;2(12):499–502 (0 ref.)

Antibiotic use in pregnancy. Dashe JS, et al. **Obstet Gynecol Clin North Am** 1997 Sep;24(3):617–29 (57 ref.)

Continuation of antibiotic therapy for serious bacterial infections outside of the hospital. Gutierrez K. **Pediatr Ann** 1996 Nov;25(11):639–45

The management of common infections in ambulatory children. Mason WH. **Pediatr Ann** 1996 Nov;25(11):620–9 (56 ref.)

Antibiotic update: overview. Prober CG. **Pediatr Ann** 1996 Nov;25(11):604, 606–7

Antibiotic choices: the critical first hour. Sotiropoulos SV. **Pediatr Ann** 1996 Jun;25(6):345–50 (18 ref.)

Efficacy, safety and tolerability of meropenem as empiric antibiotic therapy in hospitalized pediatric patients. Bradley JS, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):749–57 (20 ref.)

Monthly changes in the rate of recovery of penicillin–resistant organisms from children. Brook I, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):255–7

Contemporary issues in the management of pediatric infections. Helwig H. **Pediatr Infect Dis J** 1997 Mar;16(3 Suppl):S39–42 (19 ref.)

History of macrolide use in pediatrics. Klein JO. **Pediatr Infect Dis J** 1997 Apr;16(4):427–31 (30 ref.)

Pharmacokinetics and pharmacodynamics of newer macrolides. Nightingale CH. **Pediatr Infect Dis J** 1997 Apr; 16(4):438–43 (29 ref.)

Empiric antibiotic selection criteria for respiratory infections in pediatric practice. Pichichero ME. **Pediatr Infect Dis J** 1997 Mar;16(3 Suppl):S60–4 (38 ref.)

Predicting the clinical efficacy of antibiotics: toward definitive criteria. Scaglione F. **Pediatr Infect Dis J** 1997 Mar;16(3 Suppl):S56–9 (31 ref.)

Future indications for macrolides. Tarlow MJ, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):457–62 (27 ref.)

Effect of nebulizer type and antibiotic concentration on device performance. Weber A, et al. **Pediatr Pulmonol** 1997 Apr;23(4):249–60

C–reactive protein is a useful marker for guiding duration of antibiotic therapy in suspected neonatal bacterial infection. Ehl S, et al. **Pediatrics** 1997 Feb;99(2):216–21

Meropenem, a new carbapenem antibiotic. Fish DN, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):644–69 (164 ref.)

Mega–analysis of meta–analysis: an examination of meta–analysis with an emphasis on once–daily aminoglycoside comparative trials. Freeman CD, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1093–102

Avoiding fluoroquinolone resistance. Strategies for primary care practice. Stratton CW. **Postgrad Med** 1997 Mar; 101(3):247–50, 255 (12 ref.)

Antibiotics and bacterial resistance. A few elements of genetic basis for this relationship. Străuț M, et al. **Roum Arch Microbiol Immunol** 1995 Oct–Dec;54(4):241–54 (61 ref.)

A comparison of imipenem/cilastatin with the combination of cefuroxime and metronidazole in the treatment of intra–abdominal infections. Angerås MH, et al. **Scand J Infect Dis** 1996;28(5):513–8

Biapenem versus imipenem/cilastatin in the treatment of complicated intra–abdominal infections: report from a Swedish Study Group. Brismar B, et al. **Scand J Infect Dis** 1996;28(5):507–12

Chronic bacterial prostatitis treated with intraprostatic injection of antibiotics. Yamamoto M, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):199–202

Beating bacteria. New ways to fend off antibiotic–resistant pathogens [news] Nemecek S. **Sci Am** 1997 Feb;276(2):38–9

Antibiotic therapy for preterm premature rupture of the membranes. Mercer BM, et al. **Semin Perinatol** 1996 Oct; 20(5):426–38 (83 ref.)

Toward anti–adhesion therapy for microbial diseases. Ofek I, et al. **Trends Microbiol** 1996 Aug;4(8):297–9

[A randomized controlled clinical trial of sulperazone as compared with cefotaxime in the treatment of bacterial infections] Li J, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):680–2 (Eng. Abstr.) **(Chi)**

[ORL infections. 10th consensus conference on anti–infectious therapeutics. Under the collaboration of the French Societies of Infectious Diseases, of ORL and of Pediatrics] **Arch Pediatr** 1997 Feb;4(2):188–94 (0 ref.) **(Fre)**

[Infections in pediatrics] Aujard Y, et al. **Presse Med** 1997 Jan 18–25;26(1):39–44 (23 ref.) (Eng. Abstr.) **(Fre)**

[Macrolides: indications in 1997] Bouhour D, et al. **Presse Med** 1997 Mar;26 Suppl 2:22–6 (31 ref.) **(Fre)**

[Antibiotic strategy in bronchial infections. Role of roxithromycin] Gaillat J. **Presse Med** 1997 Mar;26 Suppl 2:16–21 (26 ref.) **(Fre)**

[Mucoviscidosis. Antibiotic management] Le Bourgeois M, et al. **Presse Med** 1997 May 3–10;26(15):727–32 (29 ref.) **(Fre)**

[Infections in the elderly] Veyssier P. **Presse Med** 1997 Jan 18–25;26(1):32–8 (22 ref.) (Eng. Abstr.) **(Fre)**

[Antibiotics—how do I administer them to my child? (news)] Schweiger A. **Fortsc.. Med** 1997 Feb 28;115(6):20, 22–3 **(Ger)**

[Pathogen spectrum and antibiotic resistance in peritonsillar abscess] Fischer M, et al. **HNO** 1996 Feb;44(2):68–72 (Eng. Abstr.) **(Ger)**

[Prevention, diagnosis and therapy of infections in patients with malignant diseases] Hiddemann W, et al. **Internist (Berl)** 1996 Dec;37(12):1212–24 (56 ref.) **(Ger)**

[Oral cephalosporins of the 3rd generation] Kraeft H. **Internist (Berl)** 1996 Mar;37(3):319–23 (32 ref.) **(Ger)**

[Adjuvant therapy of peritonitis with taurolidine. Modulation of mediator liberation] Staubach KH. **Langenbecks Arch Chir** 1997;382(4 Suppl 1):S26–30 (17 ref.) (Eng. Abstr.) **(Ger)**

[Stage–oriented antibiotic therapy of peritonitis. Prospective study] Winkeltau GJ, et al. **Langenbecks Arch Chir** 1997; 382(4 Suppl 1):S22–5 (Eng. Abstr.) **(Ger)**

[Therapy with antibiotics in renal failure] Anding K, et al. **Med Klin** 1996 Nov 15;91(11):698–702 (42 ref.) **(Ger)**

[Therapy of infections in patients with acute leukemia] Hiddemann W, et al. **Med Klin** 1997 Jul 15;92(7):406–9 (18 ref.) (Eng. Abstr.) **(Ger)**

[Calculated and controlled pharmacotherapy of problem infections in intensive care patients] Breithaupt H. **Zentralbl Chir** 1996;121 Suppl:37–8 **(Ger)**

[Development of resistance—a problem?] Rodloff AC. **Zentralbl Chir** 1996;121 Suppl:41–3 **(Ger)**

[Blind prophylactic antibiotic administration in premature rupture of fetal membranes] Ahr A, et al. **Zentralbl Gynakol** 1997;119(3):111–6 (Eng. Abstr.) **(Ger)**

[Simple parameters of antibiotic utilization and diagnostic background of antimicrobial therapy in Hungarian hospitals in 1995] Almási I, et al. **Orv Hetil** 1997 Feb 23;138(8):473–8 (Eng. Abstr.) **(Hun)**

[Tobramycin—clinical pharmacology and chemotherapy] Periti P. **J Chemother** 1996 Jan;8 Suppl 1:3–30 (171 ref.) (Eng. Abstr.) **(Ita)**

[Meropenem (Merrem) vs imipenem/cilastatin in hospital treatment of intra–abdominal infections. A multicenter study] Tonelli F. **Minerva Chir** 1997 Mar;52(3):317–26 (Eng. Abstr.) **(Ita)**

[Effectiveness of and tolerance to ceftibuten in the treatment of chronic bacterial bronchitis exacerbations in an elderly population] Allegra L, et al. **Minerva Med** 1996 Oct; 87(10):479–85 (Eng. Abstr.) **(Ita)**

[Teichoplanin: a clinical study of treatment of serious infections in hospitalized patients] Di Rosa R, et al. **Riv Eur Sci Med Farmacol** 1995 Nov–Dec;17(6):231–5 (Eng. Abstr.) **(Ita)**

[Bacteriological, pharmacokinetic and clinical evaluation of azithromycin in the pediatric field] Akita H, et al. **Jpn J Antibiot** 1996 Oct;49(10):899–916 (Eng. Abstr.) **(Jpn)**

[Clinical study of tazobactam/piperacillin in obstetrics and gynecological infections] Chimura T, et al. **Jpn J Antibiot** 1996 Aug;49(8):808–12 (Eng. Abstr.) **(Jpn)**

[Criteria for the clinical evaluation of antimicrobial drugs in neonates] Fujii R, et al. **Jpn J Antibiot** 1996 Jul; 49(7):743–53 **(Jpn)**

[A clinical evaluation of azithromycin in the treatment of pediatric infection] Furukawa S, et al. **Jpn J Antibiot** 1996 Nov;49(11):1013–23 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of cefpirome sulfate for severe infections in patients with hematological disorders. Hanshin Study Group of Hematopoietic Disorders and Infections] Hamazaki H, et al. **Jpn J Antibiot** 1997 Jan;50(1):12–21 (Eng. Abstr.) **(Jpn)**

[Therapeutic efficacy of azithromycin in pediatrics] Haruta T, et al. **Jpn J Antibiot** 1996 Oct;49(10):926–31 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in pediatric infections] Ishida Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):1030–8 (Eng. Abstr.) **(Jpn)**

[Clinical study of a macrolide antibiotic, azithromycin, in pediatric patients] Kobayashi Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):1004–12 (Eng. Abstr.) **(Jpn)**

[Therapy with azithromycin in pediatric infections] Kuroda Y, et al. **Jpn J Antibiot** 1996 Oct;49(10):932–8 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of azithromycin in pediatric infections] Nishimura T, et al. **Jpn J Antibiot** 1996 Oct;49(10):917–25 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical studies on azithromycin in children] Ohtsuka Y, et al. **Jpn J Antibiot** 1996 Nov; 49(11):1039–48 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluations of azithromycin in the pediatric field] Okada T, et al. **Jpn J Antibiot** 1996 Nov;49(11):1024–9 (Eng. Abstr.) **(Jpn)**

[Clinical studies on azithromycin in pediatrics] Okamoto T, et al. **Jpn J Antibiot** 1996 Oct;49(10):939–46 (Eng. Abstr.) **(Jpn)**

[Pharmacokinetic and clinical evaluation of azithromycin in pediatrics] Okumura A, et al. **Jpn J Antibiot** 1996 Nov; 49(11):994–1003 (Eng. Abstr.) **(Jpn)**

[Guideline for the clinical evaluation fo anti–infective agents] Sagawa K, et al. **Jpn J Antibiot** 1997 Jan;50(1):107–142

(Jpn)
[International guidelines for the clinical evaluation of anti-infective drugs] Sagawa K. **Jpn J Antibiot** 1997 Jan; 50(1):87-106 (7 ref.) (Jpn)
[Comparison between monotherapy with imipenem/cilastatin sodium (IPM/CS) and combinations of IPM/CS and other drugs for treating bacterial infections in patients with hematopoietic disorders] Sawae Y, et al. **Jpn J Antibiot** 1996 Dec;49(12):1049-61 (Eng. Abstr.) (Jpn)
[Pharmacokinetic and clinical evaluation of azithromycin using fine granules or capsules in the pediatric patients] Toyonaga Y, et al. **Jpn J Antibiot** 1996 Nov;49(11):981-93 (Eng. Abstr.) (Jpn)
[Basic and clinical studies of pazufloxacin on infectious enteritis research group of T-3761 on infectious enteritis] Sagara H, et al. **Kansenshogaku Zasshi** 1996 Jan;70(1):60-72 (Eng. Abstr.) (Jpn)
[Optimal antibacterial chemotherapy for infectious diseases associated with hematological malignancies] Sakamoto M. **Kansenshogaku Zasshi** 1997 Jan;71(1):72-82 (Eng. Abstr.) (Jpn)
[Clinical efficacy of lomefloxacin for associated infection in patients with hematological diseases] Suzuki T, et al. **Kansenshogaku Zasshi** 1997 Feb;71(2):143-52 (Eng. Abstr.) (Jpn)
[Recent clinical circumstance causing by antibiotics-resistant bacterial strains] Kaku M. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1843-7 (8 ref.) (Jpn)
[Use of antibiotics for septic complications in obstetrics and gynecology] Pisarek-Miedzinska D, et al. **Ginekol Pol** 1997 Jan;68(1):46-52 (Eng. Abstr.) (Pol)
[The study of drug resistance in aerobic and anaerobic bacterial flora to selected antibacterial drugs] Michalska W, et al. **Med Dosw Mikrobiol** 1996;48(1-2):61-70 (Eng. Abstr.) (Pol)
[Experience using cefpirome in pneumonia] Belousov IuB, et al. **Antibiot Khimioter** 1996;41(12):19-20 (Eng. Abstr.) (Rus)
[Treatment of patients with pneumonia, chronic obstructive bronchitis and mucoviscidosis with cefpirome] Chuchalin AG, et al. **Antibiot Khimioter** 1996;41(12):14-8 (Eng. Abstr.) (Rus)
[Effectiveness of cefpirome in the treatment of complicated infections of the upper and lower urinary tracts] Derevianko II, et al. **Antibiot Khimioter** 1996;41(12):30-3 (Eng. Abstr.) (Rus)
[Use of piperacillin/tazobactam as empirical monotherapy in the treatment of bacterial infections in a resuscitation department] Iakovlev SV, et al. **Antibiot Khimioter** 1997; 42(2):33-7 (Eng. Abstr.) (Rus)
[Experience using cefpirome in patients with infections of the bronchopulmonary system] Il'ina NI, et al. **Antibiot Khimioter** 1996;41(12):21-3 (Eng. Abstr.) (Rus)
[Clinico-pharmacologic aspects of the use of ofloxacin] Kukes VG, et al. **Antibiot Khimioter** 1996;41(9):39-42 (Eng. Abstr.) (Rus)
[The efficacy of the eubiotic bifacide when used in the combined antibacterial therapy of newborn infants with infectious-inflammatory diseases] Kushnareva MV, et al. **Antibiot Khimioter** 1996;41(11):28-32 (Eng. Abstr.) (Rus)
[Fluoroquinolones--current value in antibacterial therapy, outlook for development] Navashin SM, et al. **Antibiot Khimioter** 1996;41(9):4-10 (13 ref.) (Rus)
[Results of a "round table" on cefpirome (Keiten)] Navashin SM, et al. **Antibiot Khimioter** 1996;41(12):40-2 (Rus)
[Possible mechanisms of the antimicrobial action of pectin in acute infectious diarrhea] Potievskil EG. **Antibiot Khimioter** 1996;41(7-8):40-2 (12 ref.) (Rus)
[Pefloxacin mesylate--clinical effectiveness in various forms of infectious-inflammatory diseases] Pozdniakova VP, et al. **Antibiot Khimioter** 1997;42(7):20-3 (Eng. Abstr.) (Rus)
[Effect of piperacillin/tazobactam on the anti-infection resistance in patients with infections in the peritoneal cavity] Savitskaia KI, et al. **Antibiot Khimioter** 1997; 42(2):41-8 (Eng. Abstr.) (Rus)
[Medical microbial ecology: current status and outlook] Shenderov BA. **Antibiot Khimioter** 1996;41(10):10-2 (Rus)
[Ciprofloxacin in the treatment of intestinal infections of bacterial etiology] Sidorenko SV. **Antibiot Khimioter** 1997; 42(6):26-33 (60 ref.) (Rus)
[Oral cephalosporins in the treatment of suppurative-inflammatory diseases] Sidorenko SV. **Antibiot Khimioter** 1996;41(11):33-42 (Rus)
[Effectiveness of local application of cidipol in the treatment and prevention of infectious-inflammatory diseases of the urogenital organs in women] Vasil'ev MM, et al. **Antibiot Khimioter** 1996 May;41(5):46-8 (Eng. Abstr.) (Rus)
[Effectiveness of cefotetan in clinical practice] Vinogradova MA, et al. **Antibiot Khimioter** 1997;42(7):16-9 (Eng. Abstr.) (Rus)
[Use of ofloxacin in infections which do not readily respond to treatment] Zalaudek G. **Antibiot Khimioter** 1996; 41(9):11-2 (Eng. Abstr.) (Rus)
[Clinical results of Fortum and Zinacef trial in Burn Centers of Russia] Alekseev AA, et al. **Khirurgiia (Mosk)** 1996; (5):55-9 (Rus)
[Application of antibiotics zinnat and zinacef ("Glaxo Wellcome") in otorhinolaryngologic inflammatory diseases] Chufistov ME, et al. **Vestn Otorinolaringol** 1997;(1):44-5 (Rus)
[Current problems of antibacterial therapy in rheumatology] Sidorenko SV. **Vestn Ross Akad Med Nauk** 1996;(12):10-2 (Eng. Abstr.) (Rus)
[Fitovit and other medicinal species in the treatment of dysbacteriosis] Kosov VA, et al. **Voen Med Zh** 1996 Sep; 317(9):53-6 (Rus)
[Antibiotic therapy in the treatment of inflammatory diseases in the minor pelvis] Vasiljević M, et al. **Srp Arh Celok Lek** 1996 Jul-Aug;124(7-8):193-6 (Eng. Abstr.) (Scc)
[Inhalation antibiotherapy] Vendrell Relat M, et al. **Arch Bronconeumol** 1997 Jan;33(1):41-9 (94 ref.) (Spa)

ECONOMICS

Cost-analysis of prophylactic antibiotics in spontaneous bacterial peritonitis. Inadomi J, et al. **Gastroenterology** 1997 Oct;113(4):1289-94
Estimate of direct financial losses due to porcine proliferative enteropathy. McOrist S, et al. **Vet Rec** 1997 May 31; 140(22):579-81

ENZYMOLOGY

Bacterial infection induces nitric oxide synthase in human neutrophils. Wheeler MA, et al. **J Clin Invest** 1997 Jan 1;99(1):110-6
[Decrease in plasmatic cholinesterase activity in severe bacterial infections: comparison with the decrease observed in severe liver cirrhosis] Blanloeil Y, et al. **Ann Fr Anesth Reanim** 1996;15(2):220-2 (Eng. Abstr.) (Fre)

EPIDEMIOLOGY

Bacterial changes in neonatal intensive care unit. Endo A, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):12-6
A case control study of chorioamniotic infection and histological chorioamnionitis in stillbirth. Folgosa E, et al. **APMIS** 1997 Apr;105(4):329-36
Microbiology of semen specimens from males attending a fertility clinic. Kjaergaard N, et al. **APMIS** 1997 Jul; 105(7):566-70
Risk factors for serious infection during treatment with cyclophosphamide and high-dose corticosteroids for systemic lupus erythematosus [see comments] Pryor BD, et al. **Arthritis Rheum** 1996 Sep;39(9):1475-82. Comment in: Arthritis Rheum 1997 Jun;40(6):1186.
Epidemiological factors influencing the emergence of antimicrobial resistance. Cohen ML. **Ciba Found Symp** 1997;207:223-31; discussion 231-7 (38 ref.)
Incidence of anaerobic infections among patients with pulmonary diseases: Japanese experience with transtracheal aspiration and immediate bedside anaerobic inoculation. Kato T, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S87-96
Communicable diseases surveillance. **Commun Dis Intell** 1997 Aug 7;21(16):222-30 (0 ref.)
Diabetic foot infections. Bacteriology and activity of 10 oral antimicrobial agents against bacteria isolated from consecutive cases. Goldstein EJ, et al. **Diabetes Care** 1996 Jun;19(6):638-41
A study of nosocomial diarrhea in Calcutta. Das AS, et al. **Indian J Gastroenterol** 1996 Jan;15(1):12-3
Frequency, microbial spectrum and outcome of spontaneous bacterial peritonitis in north India. Puri AS, et al. **Indian J Gastroenterol** 1996 Jul;15(3):86-9
Emerging & re-emerging bacterial pathogens in India. John TJ. **Indian J Med Res** 1996 Jan;103:4-18 (74 ref.)
Prevalence of urinary tract infection during outpatient follow-up after renal transplantation. Goya N, et al. **Infection** 1997 Mar-Apr;25(2):101-5
Sensitive populations: who is at the greatest risk? Gerba CP, et al. **Int J Food Microbiol** 1996 Jun;30(1-2):113-23 (59 ref.)
Food-borne disease outbreaks due to bacteria in Taiwan, 1986 to 1995. Pan TM, et al. **J Clin Microbiol** 1997 May; 35(5):1260-2
Urethral infection in a workplace population of East African men: evaluation of strategies for screening and management. Jackson DJ, et al. **J Infect Dis** 1997 Apr; 175(4):833-8
Annual report on findings of infectious agents in Japan 1993. **Jpn J Med Sci Biol** 1994;47 Suppl:1-164 (0 ref.)
Xenosis and xenotransplantation: addressing the infectious risks posed by an emerging technology. Fishman JA. **Kidney Int Suppl** 1997 Mar;58:S41-5 (45 ref.)
Five-year survey of cefotaxime resistance in Spain. Colom K, et al. **Microb Drug Resist** 1995 Winter;1(4):327-30
Epidemiologic aspects on antibiotic resistance. Høiby N. **Microb Drug Resist** 1995 Summer;1(2):137-42 (29 ref.)
Follow-up of osteomyelitis of infants with systemic serum parameters and bone scintigraphy. Aigner RM, et al. **Nuklearmedizin** 1996 Aug;35(4):116-21
Bacterial gastroenteritis among hospitalized patients in a Danish County, 1991-93. Petersen AM, et al. **Scand J Gastroenterol** 1996 Sep;31(9):906-11
High incidence of line-related infection and mechanical failure of an antiseptic impregnated central venous catheter in highly immunocompromised patients. Ellis ME, et al. **Scand J Infect Dis** 1996;28(1):91-3
Mechanical and infective central venous catheter-related complications: a prospective non-randomized study using Hickman and Groshong catheters in children with hematological malignancies. Biagi E, et al. **Support Care Cancer** 1997 May;5(3):228-33
Infectious complications after the use of double J ureteral stents. Eschwège P, et al. **Transplant Proc** 1996 Oct; 28(5):2833
Infectious complications after small bowel transplantation in adults: an update. Kusne S, et al. **Transplant Proc** 1996 Oct;28(5):2761-2
[Is there the threat of infectious diseases in Africa? (editorial)] Georges AJ. **Sante** 1997 Mar-Apr;7(2):73 (Fre)
[Nosocomial infections in Germany. Microbiological diagnosis, preventive antibiotics and antibiotic therapy] Hauer T, et al. **Med Klin** 1996 Nov 15;91(11):681-6 (Eng. Abstr.) (Ger)
[Bacterial infections in patients with acquired immunodeficiency syndrome (AIDS). Review of literature] Masukawa II, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jan-Feb;51(1):26-33 (113 ref.) (Eng. Abstr.) (Por)
[An evaluation of nosocomial infections in pediatric units] Deac L, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan-Jun;38(1-2):32-5 (Rum)
[The effect of immune system disorders on the incidence of inflammatory complications in surgeries on the liver] Al'perovich BI, et al. **Khirurgiia (Mosk)** 1997;(1):41-4 (Eng. Abstr.) (Rus)
[Organization of the monitoring of natural foci of infections in Vologda Province] Rybakova NA, et al. **Med Parazitol (Mosk)** 1997 Apr-Jun;(2):16-8 (Rus)
[Zoonotic infections in the central and southern ulusy of the Republic of Sakha] Egorov IE, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar-Apr; (2):38-43 (Eng. Abstr.) (Rus)
[Genetic markers in the epidemiology of bacterial infections] Shaginian IA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul-Aug;(4):54-9 (17 ref.) (Rus)
[Incidence and risk factors for nosocomial infections in a neonatology unit] Saleta JL, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):357-60 (Eng. Abstr.) (Spa)
[Bacterial pneumonia as a risk marker for new bacterial diseases in patients with HIV infection] Teira R, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):361-6 (Eng. Abstr.) (Spa)
[Current and future prospects of molecular biology techniques in the epidemiologic study of nosocomial infections (editorial)] Vila J. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):341-4 (Spa)
[Conference on the risks of travelling. Infections and accidents dominate travel medicine] Norrbohm O. **Lakartidningen** 1997 Aug 27;94(35):2929-31 (Swe)

ETHNOLOGY

Bacterial colonization of the vagina during pregnancy in four ethnic groups. Vaginal Infections and Prematurity Study Group. Goldenberg RL, et al. **Am J Obstet Gynecol** 1996 May;174(5):1618-21

ETIOLOGY

Infectious risks associated with the use of propofol. Bach A, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1189-96 (67 ref.)
Infectious complications following trauma in children. Brook I. **Adv Pediatr** 1997;44:429-51 (46 ref.)
Septic thrombophlebitis of the inferior mesenteric vein complicating sigmoid diverticulitis: CT findings. Molitch HI. **AJR Am J Roentgenol** 1996 Oct;167(4):1014-6
Back pain following postoperative epidural analgesia: an indicator of possible spinal infection. Tham EJ, et al. **Anaesth Intensive Care** 1997 Jun;25(3):297-301
Do culture results tell us anything about the risk of infection with spinal catheters? [letter] Bevacqua BK. **Anesthesiology** 1997 Jul;87(1):179
Clinical and bacteriologic survey of epidural analgesia in patients in the intensive care unit. Darchy B, et al. **Anesthesiology** 1996 Nov;85(5):988-98
Bacterial translocation in surgical patients. MacFie J. **Ann R Coll Surg Engl** 1997 May;79(3):183-9 (19 ref.)
Molecular mechanisms of lymphocyte-mediated cytotoxicity and their role in immunological protection and pathogenesis in vivo. Kägi D, et al. **Annu Rev Immunol** 1996;14:207-32 (157 ref.)
Anatomical considerations in the diagnosis and management of acute maxillofacial bacterial infections. Bridgeman A, et al. **Aust Dent J** 1996 Aug;41(4):238-45 (33 ref.)
Localized argyria caused by silver earrings [letter; comment] White MI. **Br J Dermatol** 1997 Jun;136(6):980. Comment on: Br J Dermatol 1996 Sep;135(3):484-5.
Chemotherapy-induced neutropenia and fever in patients with metastatic breast carcinoma receiving salvage chemotherapy. Rahman Z, et al. **Cancer** 1997 Mar 15; 79(6):1150-7
Left ventricular assist device infection is associated with increased mortality but is not a contraindication to transplantation. Herrmann M, et al. **Circulation** 1997 Feb 18;95(4):814-7
Infections and reduced functioning kidney mass induce chronic rejection in rat kidney allografts. Heemann UW, et al. **Clin Nephrol** 1996 Jul;46(1):34-8
Bacterial infections and deep implants [letter] MacEwen GD.

Del Med J 1996 May;68(5):285

Central venous catheter-related infections. Michalopoulos A, et al. **Eur J Anaesthesiol** 1996 Sep;13(5):445-55 (107 ref.)

Novel approach to investigate a source of microbial contamination of central venous catheters. Elliott TS, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):210-3

Spontaneous ascitic infection in different cirrhotic groups: prevalence, risk factors and the efficacy of cefotaxime therapy. Kaymakoglu S, et al.
Eur J Gastroenterol Hepatol 1997 Jan;9(1):71-6

Powder contamination of extradural catheters and implications for infection risk. Green M.
Eur J Surg Suppl 1997;(579):39-40

Effects of powder on infection risks and associated mechanisms. Renz H, et al. **Eur J Surg Suppl** 1997;(579):35-8

Interaction of bacteria and airway epithelial cells [editorial; comment] Van Alphen L. **Eur Respir J** 1996 Jul;9(7):1342-3 . Comment on: Eur Respir J 1996 Jul;9(7):1523-30.

The biology of bacterial colonization and invasion of the respiratory mucosa [see comments] Wilson R, et al.
Eur Respir J 1996 Jul;9(7):1523-30 (90 ref.). Comment in: Eur Respir J 1996 Jul;9(7):1342-3.

Bone-dust in autopsies: reduction of spreading.
Kernbach-Wighton G, et al. **Forensic Sci Int** 1996 Dec 2;83(2):95-103

Role of the gut in the pathophysiology of extrahepatic biliary obstruction. Clements WD, et al. **Gut** 1996 Oct; 39(4):587-93

Bacterial infections in leukemias [letter; comment] Kumar AS. **Indian Pediatr** 1996 May;33(5):435-7. Comment on: Indian Pediatr 1995 Nov;32(11):1205-7.

Microbial findings of deep peri-implant bone defects. Augthun M, et al. **Int J Oral Maxillofac Implants** 1997 Jan-Feb;12(1):106-12

Infectious peritonitis complicating suprapubic catheter removal. Heit M.
Int Urogynecol J Pelvic Floor Dysfunct 1997;8(1):47-9

Central venous catheter-related septicaemia in paediatric cancer patients. Das I, et al. **J Hosp Infect** 1997 May; 36(1):67-76

Risk of fetal infection from invasive procedures. Workman MR, et al. **J Hosp Infect** 1997 Mar;35(3):169-74 (20 ref.)

Orbital complications of sinusitis. Jabor MA, et al.
J La State Med Soc 1997 Apr;149(4):105-8 (13 ref.)

Prelabour rupture of membranes to delivery interval related to the incidence of maternal and neonatal infection. Chua S, et al. **J Obstet Gynaecol** 1995 Aug;21(4):367-72

Case report: scrotal cellulitis secondary to hot tub exposure. Forrest JB, et al. **J Okla State Med Assoc** 1996 Nov; 89(11):400-1

Bacterial infections. Kovacs A, et al.
Med Clin North Am 1997 Mar;81(2):319-43 (261 ref.)

Infections in neutropenic patients I: aetiology. Engervall P, et al. **Med Oncol** 1995 Dec;12(4):251-6 (65 ref.)

Bacterial infections after renal transplantation. Schmaldienst S, et al. **Nephron** 1997;75(2):140-53 (101 ref.)

Microbial interactions with catheter material. Lewis WJ, et al. **Nutrition** 1997 Apr;13(4 Suppl):5S-9S (49 ref.)

Contrasting effects of identical nutrients given parenterally or enterally after 70% hepatectomy: bacterial translocation [see comments] Qiu JG, et al. **Nutrition** 1997 May; 13(5):431-7. Comment in: Nutrition 1997 May;13(5):473-4.

Does occupational exposure to iron promote infection? Palmer K, et al. **Occup Environ Med** 1997 Aug;54(8):529-34 (52 ref.)

Ventricular fluid pleocytosis in children with ventriculoperitoneal shunts. Carraccio CL, et al.
Pediatr Infect Dis J 1996 Aug;15(8):705-6

Idiopathic infected hydrocele in infants: a case report and review. Yang YJ, et al. **Pediatr Infect Dis J** 1996 Jun; 15(6):545-6 (10 ref.)

Infections in infants with congenital nephrosis of the Finnish type. Ljungberg P, et al. **Pediatr Nephrol** 1997 Apr; 11(2):148-52

The occurrence of Kostmann syndrome in preterm neonates. Calhoun DA, et al. **Pediatrics** 1997 Feb;99(2):259-61

How to monitor and report exit/tunnel infections. Nolph KD, et al. **Perit Dial Int** 1996;16 Suppl 3:S115-S117

Exit-site study methods and results. Twardowski ZJ, et al. **Perit Dial Int** 1996;16 Suppl 3:S6-S31

Intravascular catheter-associated infections. Widmer AF.
Schweiz Med Wochenschr 1997 Mar 15;127(11):444-56 (124 ref.)

Bacterial and fungal infection in acute liver failure. Rolando N, et al. **Semin Liver Dis** 1996 Nov;16(4):389-402 (89 ref.)

Allogeneic blood transfusions, immunomodulation, and postoperative bacterial infection: do we have the answers yet? [editorial; comment] Blajchman MA. **Transfusion** 1997 Feb;37(2):121-5. Comment on: Transfusion 1997 Feb;37(2):126-34.

To sting or be stung: bacteria-induced apoptosis [letter] Lindgren SW, et al. **Trends Microbiol** 1997 Jul;5(7):263-4

A single unit of transfused allogeneic blood increases postoperative infections. Vignali A, et al. **Vox Sang** 1996; 71(3):170-5

Soft tissue and bone infections from puncture wounds in children. Laughlin TJ, et al. **West J Med** 1997 Feb; 166(2):126-8

[Spontaneous ascites infections] Lata J. **Vnitr Lek** 1996 Nov; 42(11):789-91 (20 ref.) (Eng. Abstr.) **(Cze)**

[Infections in connection with epidural catheterization (letter)] Clemensen SE, et al. **Ugeskr Laeger** 1996 Nov 18; 158(47):6785-6 **(Dan)**

[Frequency of infections after shunting of hydrocephalus. An analysis of 884 shunts] Molke Borgbjerg B, et al.
Ugeskr Laeger 1997 May 5;159(19):2867-71 (Eng. Abstr.) **(Dan)**

[Peritoneal dialysis: peritonitis and catheter infections] Bergeron E, et al. **Ann Chir** 1996;50(8):606-12 (27 ref.) (Eng. Abstr.) **(Fre)**

[Transfusion and early infections in surgery (letter)] Janvier G, et al. **Ann Fr Anesth Reanim** 1996;15(7):1130-1 **(Fre)**

[Bacterial infections in patients with cirrhosis] Le Dinh T, et al. **Ann Med Interne (Paris)** 1996;147(6):413-31 (172 ref.) **(Fre)**

[Hysteroscopy infection risk] Boubli L, et al.
J Gynecol Obstet Biol Reprod (Paris) 1997;26(3):250-5 (Eng. Abstr.) **(Fre)**

[Catheter infection in intensive care: influence of systematic replacement of central venous catheters on a guide wire every 4 days] Berthelot P, et al. **Presse Med** 1997 Jul 5; 26(23):1089-94 (Eng. Abstr.) **(Fre)**

[From epidemiology to therapeutic choices. Infections in patients with neutropenia] Cordonnier C, et al.
Presse Med 1997 Jan 18-25;26(1):45-50 (26 ref.) (Eng. Abstr.) **(Fre)**

[Infectious complications of implantable infusion ports in patients with HIV infection] Benharrats I, et al.
Rev Med Interne 1997;18(6):443-9 (Eng. Abstr.) **(Fre)**

[Post-traumatic endophthalmitis with multiple water pathogens] Janknecht P, et al.
Klin Monatsbl Augenheilkd 1997 Jun;210(6):388-91 (Eng. Abstr.) **(Ger)**

[Endogenous endophthalmitis in severe generalized diseases] Augsten R, et al. **Ophthalmologe** 1997 Jun;94(6):397-400 (Eng. Abstr.) **(Ger)**

[Periapical lesions of mixed etiology: bacterial and foreign body] Bruno E, et al. **Minerva Stomatol** 1996 Dec; 45(12):563-8 (13 ref.) (Eng. Abstr.) **(Ita)**

[Bacterial infections in 100 patients submitted to heart transplantation] Everson Uip D, et al. **Arq Bras Cardiol** 1996 Mar;66(3):135-7 (Eng. Abstr.) **(Por)**

[Pulmonary complications during HIV infection in children] Murgoci G, et al. **Pneumoftiziologia** 1997 Jan-Mar; 46(1):39-44 (12 ref.) **(Rum)**

[Aspects of solution of the postoperative infection problem in heart surgery] Pkhakadze TIa, et al.
Antibiot Khimioter 1997;42(4):28-33 (Eng. Abstr.) **(Rus)**

[Topical problems in classification and treatment of disseminated purulent peritonitis] Kuzin MI.
Khirurgiia (Mosk) 1996;(5):9-15 (Eng. Abstr.) **(Rus)**

[The etiological structure of the causative agents of inflammatory nonspecific urological diseases and the dynamics of their resistance to the widely used antibiotics] Derevianko NI, et al. **Urol Nefrol (Mosk)** 1997 May-Jun; (3):13-8 (Eng. Abstr.) **(Rus)**

[Factors of intestinal microflora persistence in dysbacteriosis] Bukharin OV, et al. **Vestn Ross Akad Med Nauk** 1997; (3):19-22 (Eng. Abstr.) **(Rus)**

[Problems in drug prevention and treatment of endogenous infection and dysbacteriosis] Melnikova VM, et al.
Vestn Ross Akad Med Nauk 1997;(3):26-9 (21 ref.) (Eng. Abstr.) **(Rus)**

[Bacterial infection in solid organ transplantation] Gavilán F, et al. **Enferm Infecc Microbiol Clin** 1997 May;15 Suppl 2:12-21 (61 ref.) **(Spa)**

[Molecular pathogenesis of bacterial infections] Vázquez Boland JA. **Microbiologia** 1996 Jun;12(2):167-70 **(Spa)**

[Approximation to the bacterial infection in lung transplantation] Borro Maté JM, et al. **Rev Clin Esp** 1995 Oct;195 Spec No:22-6 **(Spa)**

[Bacterial infection in solid organ transplantation] Picazo de la Garza J, et al. **Rev Clin Esp** 1995 Oct;195 Spec No:9-13 **(Spa)**

[Prevention and treatment of bacterial infections in bone marrow transplantation] Sanz Alonso MA, et al.
Rev Clin Esp 1995 Oct;195 Spec No:19-21 **(Spa)**

[Infection and sepsis in resuscitation] Rodrigo-Casanova P, et al. **Rev Esp Anestesiol Reanim** 1997 Jun-Jul;44(6):230-43 (101 ref.) (Eng. Abstr.) **(Spa)**

GENETICS

New drug effects on bacteria, the antiplasmid effect. Molnár J. **Acta Microbiol Immunol Hung** 1997;44(1):21-6 (40 ref.)

[Genetic markers in the epidemiology of bacterial infections] Shaginian IA, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 Jul-Aug;(4):54-9 (17 ref.) **(Rus)**

IMMUNOLOGY

Inhibition of bacterial adhesion and infections by lectin blocking. Beuth J, et al. **Adv Exp Med Biol** 1996;408:51-6 (46 ref.)

Disappearance of Ewing's sarcoma following bacterial infection: a case report. Mori Y, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1391-7

Host defense mechanisms of surgical patients. Friend or foe? Christou NV. **Arch Surg** 1996 Nov;131(11):1136-40

Influence of maternal nutrition and stress on gut permeability to immunoglobulin in newborn lambs. Hodgson JC, et al.
Biochem Soc Trans 1997 May;25(2):339S

Role of Th1 and Th2 cells in bacterial infections. Daugelat S, et al. **Chem Immunol** 1996;63:66-97 (265 ref.)

Natural killer cells in the late decades of human life. Ogata K, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):269-75

Single daily dosing of aminoglycosides in immunocompromised adults: a systematic review [see comments] Hatala R, et al. **Clin Infect Dis** 1997 May; 24(5):810-5 (37 ref.). Comment in: Clin Infect Dis 1997 May;24(5):816-9. Comment in: Clin Infect Dis 1997 May;24(5):820-3.

Mast cells in the front line. Innate immunity. Erb KJ, et al.
Curr Biol 1996 Aug 1;6(8):941-2 (9 ref.)

Tumour necrosis factors in immune regulation: everything that's interesting is...new! Pasparakis M, et al.
Cytokine Growth Factor Rev 1996 Oct;7(3):223-9 (55 ref.)

The immunology of Eta-1/osteopontin. Weber GF, et al.
Cytokine Growth Factor Rev 1996 Oct;7(3):241-8 (50 ref.)

Neutrophil dysfunction in patients with recurrent infections [letter; comment] Carulli G, et al. **Eur J Clin Invest** 1996 Oct;26(10):944-5. Comment on: Eur J Clin Invest 1995 Sep;25(9):687-92.

Effects of N-acetylcysteine on bacterial clearance. Koch T, et al. **Eur J Clin Invest** 1996 Oct;26(10):884-92

Acquired C3 deficiency in patients with alcoholic cirrhosis predisposes to infection and increased mortality. Homann C, et al. **Gut** 1997 Apr;40(4):544-9

Amniotic fluid antibacterial activity and nutritional parameters in term Mozambican and Swedish pregnant women. Axemo P, et al. **Gynecol Obstet Invest** 1996; 42(1):24-7

Impaired systemic immunity and frequent infection in patients with Candida antigen after hepatectomy. Shirabe K, et al.
Hepatogastroenterology 1997 Jan-Feb;44(13):199-204

Macrophages and mesothelial cells in bacterial peritonitis. Topley N, et al. **Immunobiology** 1996 Oct;195(4-5):563-73

Superantigens: their role in infectious diseases. Stevens DL.
Immunol Invest 1997 Jan-Feb;26(1-2):275-81 (33 ref.)

Induction of a protective immunity in mice against Escherichia coli by phenothiazines, 10-[n-(phthalimido)alkyl]-2-substituted-10H-phenothiazines and 1-(2-chloroethyl)-3-(2-substituted-10H-phenothiazines-10-yl)alkyl-1 -ureas . Komatsu N, et al. **In Vivo** 1997 Jan-Feb;11(1):13-6

Antibacterial immune response in Astacus leptodactylus (Crustacea, Decapoda). Xylander WE, et al. **In Vivo** 1997 Mar-Apr;11(2):195-200

Mast cells in infection and immunity. Abraham SN, et al.
Infect Immun 1997 Sep;65(9):3501-8 (80 ref.)

Colonization of congenitally immunodeficient mice with probiotic bacteria. Wagner RD, et al. **Infect Immun** 1997 Aug;65(8):3345-51

Interactions among antibiotics, bacteria and the human immune system: the clinical relevance of in vitro testing. Bergogne-Berezin E. **J Chemother** 1997 May;9 Suppl 1:109-15 (26 ref.)

The importance of in-vitro susceptibility testing in the management of compromised hosts. Venditti M, et al.
J Chemother 1997 May;9 Suppl 1:116-22 (23 ref.)

Homo bacteriens and a network of surprises [editorial] Henderson B, et al. **J Med Microbiol** 1996 Dec;45(6):393-4

Zoonoses: a personal perspective on the Jennerian principle of cross-protective immunity. Nelson GS.
J Med Microbiol 1997 Jan;46(1):6-11, 28-33 (228 ref.)

Granulocyte colony-stimulating factor and neonatal infection [letter; comment] Mizuno S. **J Pediatr** 1997 May; 130(5):844-6. Comment on: J Pediatr 1996 Jun;128(6):765-9.

Alterations in phagocyte function and periodontal infection. Daniel MA, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1070-5 (47 ref.)

Airway interleukin-8 in elderly patients with bacterial lower respiratory tract infections. Ponglertnapagorn P, et al.
Microbiol Immunol 1996;40(2):177-82

Shared themes of antigenic variation and virulence in bacterial, protozoal, and fungal infections. Deitsch KW, et al. **Microbiol Mol Biol Rev** 1997 Sep;61(3):281-93 (192 ref.)

Gamma delta T cells in bacterial infections. Ferrick DA, et al. **Res Immunol** 1996 Oct-Dec;147(8-9):532-41 (74 ref.)

Immunity to intracellular bacteria [editorial] Kaufmann SH, et al. **Res Immunol** 1996 Oct-Dec;147(8-9):487-9

Critical protective role of mast cell-derived tumour necrosis factor in bacterial infection. Männel DN, et al.
Res Immunol 1996 Oct-Dec;147(8-9):491-3 (14 ref.)

CD8+ T cells in intracellular bacterial infections of mice. White DW, et al. **Res Immunol** 1996 Oct-Dec; 147(8-9):519-24 (48 ref.)

Luminal immunity in small-intestinal bacterial overgrowth and old age. Riordan SM, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1103-9

The immune response to infectious diseases of the central nervous system: a tenuous balance. Pachner AR.
Springer Semin Immunopathol 1996;18(1):25-34 (55 ref.)

Oral application of romurtide, a synthetic muramyl dipeptide derivative, stimulates nonspecific resistance to microbial infections and hematopoiesis in mice. Namba K, et al.
Vaccine 1996 Aug;14(12):1149-53

[Immunologic findings in HIV infected children with bacterial infections] Bunikowski R, et al. **Klin Padiatr** 1996 Sep-Oct;208(5):304-9 (Eng. Abstr.) **(Ger)**

[Modification of the immune system by heat shock protein induced by bacterial infection] Nishimura H, et al.

BACTERIAL INFECTIONS

Nihon Rinsho Meneki Gakkai Kaishi 1996 Dec;19(6):578–81 (8 ref.) **(Jpn)**
[Infection in the elderly—as an immunocompromised host with undernutrition] Toba K.
Nippon Ronen Igakkai Zasshi 1997 Feb;34(2):106–9 (10 ref.) **(Jpn)**
[Immunological aspect of the anti-infection resistance system in the diagnosis of pyelonephritis in the framework of nephrolithiasis] Savitskaia KI, et al. **Klin Lab Diagn** 1993 May–Jun;(3):62–8 **(Rus)**
[Dependence of immunological reactivity on blood groups and microflora in patients with chronic purulent otitis media] Zemskov AM, et al. **Vestn Otorinolaringol** 1996 Sep–Oct;(5):39–42 (Eng. Abstr.) **(Rus)**
[Immunomodulating action of eubiotics] Lopatina TK, et al. **Vestn Ross Akad Med Nauk** 1997;(3):30–4 (Eng. Abstr.) **(Rus)**
[Interaction of microorganisms with the host immune system] Bojić I. **Vojnosanit Pregl** 1996 Jul–Aug;53(4):325–30 (46 ref.) **(Scr)**
[The body's defense against intracellular bacteria] Tärnvik A. **Nord Med** 1997 Jan;112(1):10–3 (Eng. Abstr.) **(Swe)**

METABOLISM

Prevention of skeletal muscle catabolism in sepsis does not impair visceral protein metabolism. Cooney RN, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E621–6
Human hepatocytes express an array of proinflammatory cytokines after agonist stimulation or bacterial invasion. Rowell DL, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G322–32
Inhibition of ion transport in septic rat heart: 133Cs+ as an NMR active K+ analog. Schornack PA, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1635–41
Population pharmacokinetics of amikacin in critically ill patients. Bressolle F, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1682–9
Role of oxidants in microbial pathophysiology. Miller RA, et al. **Clin Microbiol Rev** 1997 Jan;10(1):1–18 (334 ref.)
Bioavailability of ciprofloxacin in patients with acute infectious diarrhoe [letter] Beckebaum S, et al. **Eur J Clin Pharmacol** 1996;50(6):511–2
Identification of the major chemokines that regulate cell influxes in peritoneal dialysis patients. Tekstra J, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2379–84
Reduction in circulating IGF-I and hepatic IGF-I mRNA levels after caecal ligation and puncture are associated with differential regulation of hepatic IGF-binding protein-1, -2 and -3 mRNA levels. Rodríguez-Arnao J, et al. **J Endocrinol** 1996 Nov;151(2):287–92
The molecular basis of mycobacterial infection. Colston MJ. **Mol Aspects Med** 1996 Aug;17(4):383–454 (296 ref.)
New concepts in the pulmonary disposition of antibiotics [see comments] Bergogne-Berezin E. **Pulm Pharmacol** 1995 Apr–Jun;8(2–3):65–81 (92 ref.). Comment in: Pulm Pharmacol 1996 Feb;9(1):63, 65.

MICROBIOLOGY

Intraamniotic infection in patients with preterm labor and twin pregnancies. Mazor M, et al. **Acta Obstet Gynecol Scand** 1996 Aug;75(7):624–7
Antibiogram of bacterial isolates from cases of otitis media and lower respiratory tract infections. Ndip RN, et al. **Afr J Med Med Sci** 1995 Dec;24(4):353–7
Heterogeneity within Corynebacterium minutissimum strains is explained by misidentified Corynebacterium amycolatum strains. Zinkernagel AS, et al. **Am J Clin Pathol** 1996 Sep; 106(3):378–83
Bacterial colonization of the vagina during pregnancy in four ethnic groups. Vaginal Infections and Prematurity Study Group. Goldenberg RL, et al. **Am J Obstet Gynecol** 1996 May;174(5):1618–21
Microbiologic factors and visual outcome in the Endophthalmitis Vitrectomy Study [letter; comment] Durand M. **Am J Ophthalmol** 1997 Jul;124(1):127–30. Comment on: Am J Ophthalmol 1996 Dec;122(6):830–46.
What happens in vivo to bacterial pathogens? Smith H. **Ann N Y Acad Sci** 1996 Oct 25;797:77–92 (90 ref.)
Ultrastructural characteristics of Gardnerella vaginalis infection in the heterosexual couple. Villegas H, et al. **Arch Androl** 1997 Sep–Oct;39(2):147–53
Human immunodeficiency virus disease-related neutropenia and the risk of hospitalization for bacterial infection. Jacobson MA, et al. **Arch Intern Med** 1997 Sep 8; 157(16):1825–31
Antibacterial activity of benzydamine and antibiotic-benzydamine combinations against multifold resistant clinical isolates. Fanaki NH, et al. **Arzneimittelforschung** 1996 Mar;46(3):320–3
Pathogenic mechanisms induced by microbial proteases in microbial infections. Maeda H, et al. **Biol Chem Hoppe Seyler** 1996 Apr;377(4):217–26 (90 ref.)
A study of the anaerobic bacterial flora of the female genital tract in health and disease. Egwari L, et al. **Cent Afr J Med** 1995 Dec;41(12):391–7
Scope of urinary pathogens isolated in the Public Health Bacteriology Laboratory, Harare: antibiotic susceptibility patterns of isolates and incidence of haemolytic bacteria [see comments] Obi CL, et al. **Cent Afr J Med** 1996 Aug; 42(8):244–9. Comment in: Cent Afr J Med 1997 Jan;43(1):26–7.
Impact of antibiotic use in animal feeding on resistance of bacterial pathogens in humans. Witte W. **Ciba Found Symp** 1997;207:61–71; discussion 71–5 (36 ref.)
Microbiological analysis of pancreatic abscess. Brook I, et al. **Clin Infect Dis** 1996 Feb;22(2):384–5
Role of aerobic and anaerobic bacteria in pacemaker infections. Brook I, et al. **Clin Infect Dis** 1997 May; 24(5):1010–2
High rate of nasopharyngeal carriage of potential pathogens among children in Greenland: results of a clinical survey of middle-ear disease. Homøe P, et al. **Clin Infect Dis** 1996 Nov;23(5):1081–90
Incidence of anaerobic infections among patients with pulmonary diseases: Japanese experience with transtracheal aspiration and immediate bedside anaerobic inoculation. Kato T, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S87–96
Bacteriology of dentoalveolar abscesses in patients who have received empirical antibiotic therapy. Külekçi G, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S51–3
Serological study of responses to selected pathogens causing respiratory tract infection in the institutionalized elderly. Orr PH, et al. **Clin Infect Dis** 1996 Dec;23(6):1240–5
Bacteriologic findings in tonsillitis and pericoronitis. Rajasuo A, et al. **Clin Infect Dis** 1996 Jul;23(1):51–60
Infectious complications of hepatic cryosurgery. Riley DK, et al. **Clin Infect Dis** 1997 May;24(5):1001–3
Overgrowth of Enterococcus faecium in the feces of patients with hematologic malignancies. Suppola JP, et al. **Clin Infect Dis** 1996 Oct;23(4):694–7
Simultaneous multianalyte nucleic acid detection for gastrointestinal bacterial pathogens using GeneSTAR technology. Wu L, et al. **Clin Lab Med** 1997 Mar; 17(1):129–45 (32 ref.)
Bacterial persistence and expression of disease. Domingue GJ Sr, et al. **Clin Microbiol Rev** 1997 Apr;10(2):320–44 (185 ref.)
The Coventry Award. Polymerase chain reaction detection of bacterial infection in total knee arthroplasty. Mariani BD, et al. **Clin Orthop** 1996 Oct;(331):11–22
Susceptibility of urinary tract bacteria to antibiotics in Cape Coast, Ghana. Bosu WK, et al. **East Afr Med J** 1996 Jul; 73(7):468–70
The nasopharyngeal bacterial flora in children with otitis media with effusion. Eur Arch Otorhinolaryngol (1996) 253:260–263 [letter; comment] Probst R. **Eur Arch Otorhinolaryngol** 1997;254(1):19. Comment on: Eur Arch Otorhinolaryngol 1996;253(4–5):260–3.
Microbiology of intraabdominal infection and contamination. Condon RE. **Eur J Surg Suppl** 1996;(576):9–12
Duration of antibiotic treatment in surgical infections of the abdomen. At what point is infection cured but inflammation persists? Pollock AV. **Eur J Surg Suppl** 1996;(576):13–5
Interactions of bacterial adhesins with extracellular matrix and plasma proteins: pathogenic implications and therapeutic possibilities. Ljungh A, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):117–26 (79 ref.)
Balanitis and balanoposthitis: a review [letter; comment] Abdennader S, et al. **Genitourin Med** 1996 Dec;72(6):453–4 . Comment on: Genitourin Med 1996 Jun;72(3):155–9.
Anaerobic flora in endodontic infections. Chaudhry R, et al. **Indian J Med Res** 1997 Jun;105:262–5
Evaluation of febrile infants under 3 months of age: is routine lumbar puncture warranted? Brik R, et al. **Isr J Med Sci** 1997 Feb;33(2):93–7
Intravenous meropenem versus imipenem/cilastatin in the treatment of serious bacterial infections in hospitalized patients. Meropenem Serious Infection Study Group. Colardyn F, et al. **J Antimicrob Chemother** 1996 Sep; 38(3):523–37
Profile and trend of antimicrobial resistance of non-opportunistic bacterial pathogens isolated from patients with HIV infection [letter] Manfredi R, et al. **J Antimicrob Chemother** 1996 Nov;38(5):910–3
Perspectives series: host/pathogen interactions. Invasion and intracellular sorting of bacteria: searching for bacterial genes expressed during host/pathogen interactions. Falkow S. **J Clin Invest** 1997 Jul 15;100(2):239–43 (30 ref.)
Regulation of bacterial virulence gene expression by the host environment. Guiney DG. **J Clin Invest** 1997 Feb 15; 99(4):565–9 (26 ref.)
Improved detection of bacterial growth in continuous ambulatory peritoneal dialysis effluent by use of BacT/Alert FAN bottles. Alfa MJ, et al. **J Clin Microbiol** 1997 Apr;35(4):862–6
Microbiologic and clinical value of primary broth cultures of wound specimens collected with swabs. Silletti RP, et al. **J Clin Microbiol** 1997 Aug;35(8):2003–6
Some pathogenic fungi involved in serious cases of urinary tract infections in Nigeria. Okafor JI, et al. **J Commun Dis** 1997 Jun;29(2):101–7
Bacterial infections in burns patients: a three years study at RML Hospital, Delhi. Sharma S, et al. **J Commun Dis** 1996 Jun;28(2):101–6
Microbiological quality of ice in hospital and community. Wilson IG, et al. **J Hosp Infect** 1997 Jul;36(3):171–80
Microbiology of chronic maxillary sinusitis: comparison between specimens obtained by sinus endoscopy and by surgical drainage. Brook I, et al. **J Med Microbiol** 1997 May;46(5):430–2
Aetiology of childhood diarrhoea in an Egyptian rural community [letter] Afifi ZE, et al. **J Trop Pediatr** 1996 Apr;42(2):116
Tropism in bacterial infections: urinary tract infections. Roberts JA. **J Urol** 1996 Nov;156(5):1552–9 (84 ref.)
Epidemiologic aspects on antibiotic resistance. Høiby N. **Microb Drug Resist** 1995 Summer;1(2):137–42 (29 ref.)
A modified PCR-based method for rapid non-radioactive detection of clinically important pathogens. Gorelov VN, et al. **Microbiol Immunol** 1996;40(9):611–6
Aerobic and anaerobic microbiology of bacterial tracheitis in children. Brook I. **Pediatr Emerg Care** 1997 Feb; 13(1):16–8
Microbial evaluation: 139 implants removed from symptomatic patients. Ahn CY, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1225–9
Biotypes of Gardnerella vaginalis isolated from urinary tract. González-Pedraza Avilés A, et al. **Rev Latinoam Microbiol** 1996 Apr–Jun;38(2):75–80
Isolation of dysgonic fermenter 3, a rare isolate associated with diarrhoea in immunocompromised patients. Melhus A. **Scand J Infect Dis** 1997;29(2):195–6
Exploitation of mammalian host cell functions by bacterial pathogens. Finlay BB, et al. **Science** 1997 May 2; 276(5313):718–25 (57 ref.)
Infectious complications of patients undergoing therapy for acute leukemia: current status and future prospects. Chanock SJ, et al. **Semin Oncol** 1997 Feb;24(1):132–40 (65 ref.)
Microbial causes of ventilator-associated pneumonia. Rello J, et al. **Semin Respir Infect** 1996 Mar;11(1):24–31 (37 ref.)
Use of serum bactericidal activity in assessing previous antibiotic therapy in acute lower respiratory tract infection in children. Vasudevan G, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):639–41
Noninvasive techniques for studying pathogenic bacteria in the whole animal. Camilli A. **Trends Microbiol** 1996 Aug; 4(8):295–6
In search of virulence factors of human bacterial disease. Quinn FD, et al. **Trends Microbiol** 1997 Jan;5(1):20–6 (56 ref.)
Oral pathogens as contributors to systemic infections. Shah HN, et al. **Trends Microbiol** 1996 Oct;4(10):372–4
Host/parasite interactions in bacterial endophthalmitis. Jett BD, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):341–67 (102 ref.)
Current trends in typing of bacterial strains for medical purposes [editorial] Van Belkum A. **Zentralbl Bakteriol** 1996 Mar;283(3):249–52
[Phenotypic differences of nosocomial bacterial strains isolated in the obstetric-gynecology service of the University Hospital Center of Dakar] Boye CS, et al. **Bull Soc Pathol Exot** 1996;89(4):245–51 (Eng. Abstr.) **(Fre)**
[1996 pathogen incidence and resistance status in peritonitis] Focht J, et al. **Langenbecks Arch Chir** 1997;382(4 Suppl 1):S1–4 (Eng. Abstr.) **(Ger)**
[Anaerobic bacteria as the cause of endogenous infections] Briedigkeit H, et al. **Z Arztl Fortbild Qualitatssich** 1997 Mar;91(2):165–70 (20 ref.) (Eng. Abstr.) **(Ger)**
[Microbiology of the sternal wound] von Graevenitz A. **Zentralbl Chir** 1996;121 Suppl:22–4 **(Ger)**
[Bacteria isolated from surgical infections and its susceptibilities to antimicrobial agents. Special references to bacteria isolated between July 1994 and June 1995] Shinagawa N, et al. **Jpn J Antibiot** 1996 Sep;49(9):849–91 (Eng. Abstr.) **(Jpn)**
[In vitro antibacterial activity of pazufloxacin (PZFX) against clinical isolates from infectious enteritis] Fukuyama M, et al. **Kansenshogaku Zasshi** 1996 Jan;70(1):51–9 (Eng. Abstr.) **(Jpn)**
[Basic and clinical studies of pazufloxacin on infectious enteritis research group of T-3761 on infectious enteritis] Sagara H, et al. **Kansenshogaku Zasshi** 1996 Jan;70(1):60–72 (Eng. Abstr.) **(Jpn)**
[Severe surgical infection with no information in terms of bacteria] Tanimura H, et al. **Nippon Geka Gakkai Zasshi** 1996 Dec;97(12):1066–71 (8 ref.) (Eng. Abstr.) **(Jpn)**
[Recent clinical circumstance causing by antibiotics-resistant bacterial strains] Kaku M. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1843–7 (8 ref.) **(Jpn)**
[The dependence of the clinical course of acute hematogenic osteomyelitis in children on the type and number of microorganisms in the lesion focus] Rusak PS, et al. **Klin Khir** 1996;(7):32–3 **(Rus)**
[Clinical and bacteriological features of intestinal dysbacteriosis in patients with pulmonary tuberculosis] Lineva ZE. **Probl Tuberk** 1997;(2):27–8 (Eng. Abstr.) **(Rus)**
[Nonculturable forms of bacteria and their role in the preservation of the causative agents of sapronotic infections in the environment] Gintsburg AL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):116–21 (36 ref.) **(Rus)**
[Microbiological factors determining the carrier state in droplet infections] Kostiukova NN. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):10–5 (51 ref.) **(Rus)**
[Antibiotic sensitivity of anaerobic bacteria isolated during one year (1993)] Durán MT, et al. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):370–6 (Eng. Abstr.) **(Spa)**

[Bacteremia caused by Anaerobiospirillum succiniciproducens associated with paralytic ileus (letter)] Saavedra JM, et al. **Enferm Infecc Microbiol Clin** 1996 Oct; 14(8):513 **(Spa)**

[Cholangitis with hepatosplenomegaly caused by Xanthomonas maltophilia in a patient with AIDS (letter)] Ortiz Cansado A, et al. **Rev Clin Esp** 1997 May;197(5):382–3 **(Spa)**

[Bacterial urovirulence factors and their association with functional and anatomical abnormalities and recurrence of urinary tract infections in children] Lagos R, et al. **Rev Med Chil** 1996 Oct;124(10):1211–8 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Bacterial infections. Gray F. **Brain Pathol** 1997 Jan; 7(1):629–47 (118 ref.)

Chronic granulomatous disease of childhood: respiratory cytology. Abati A, et al. **Diagn Cytopathol** 1996 Aug; 15(2):98–102

Correlation of increased azithromycin concentrations with phagocyte infiltration into sites of localized infection. Girard AE, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:9–19

Synovial tissue examination by frozen section as an indicator of infection in hip and knee arthroplasty in community hospitals. Pace TB, et al. **J Arthroplasty** 1997 Jan;12(1):64–9

Perspectives series: host/pathogen interactions. Apoptosis in bacterial pathogenesis. Zychlinsky A, et al. **J Clin Invest** 1997 Aug 1;100(3):493–5 (44 ref.)

Decreased capillary density in vivo in bowel mucosa of rats with normotensive sepsis. Farquhar I, et al. **J Surg Res** 1996 Feb 15;61(1):190–6

Peritoneal catheter exit-site morphology and pathology: prevention, diagnosis, and treatment of exit-site infections. Case reports for independent study. Prowant BF, et al. **Perit Dial Int** 1996;16 Suppl 3:S105–S114

Classification of normal and diseased exit sites. Twardowski ZJ, et al. **Perit Dial Int** 1996;16 Suppl 3:S32–S50

Exit-site healing post catheter implantation. Twardowski ZJ, et al. **Perit Dial Int** 1996;16 Suppl 3:S51–S70

Appearance and classification of healing peritoneal catheter exit sites. Twardowski ZJ, et al. **Perit Dial Int** 1996;16 Suppl 3:S71–S93

PHYSIOPATHOLOGY

Bacterial adhesins: determinants of microbial colonization and pathogenicity. St. Geme JW 3rd. **Adv Pediatr** 1997; 44:43–72 (144 ref.)

Interactions of Bacteria with Airway Cells and Secretions. Proceedings of the 11th Transatlantic Airway Conference. Lucerne, Switzerland, January 11–12, 1996. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S131–206

The anorectic effect of bacterial cell wall compounds – mechanisms and clinical implications. Langhans W. **Appetite** 1997 Aug;29(1):105

Circulating levels of tumour necrosis factor, interleukin 6 and proteolytic activity in a murine model of burn and infection. Neely AN, et al. **Burns** 1996 Nov;22(7):524–30

Chemokine receptors: structure, function and role in microbial pathogenesis. Murphy PM. **Cytokine Growth Factor Rev** 1996 Jun;7(1):47–64 (174 ref.)

Peritonitis: pathophysiology and local defense mechanisms. Heemken R, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):927–36 (20 ref.)

Epithelial cells as sensors for microbial infection. Kagnoff MF, et al. **J Clin Invest** 1997 Jul 1;100(1):6–10 (26 ref.)

Interferons and other cytokines in bacterial infections. Degré M. **J Interferon Cytokine Res** 1996 Jun;16(6):417–26 (43 ref.)

Factors responsible for peritoneal granulocyte apoptosis during sepsis. Ayala A, et al. **J Surg Res** 1997 Apr; 69(1):67–75

Effects of dopamine and adrenaline infusions in severe infection [letter; comment] Wyncoll DL, et al. **Lancet** 1996 Oct 19;348(9034):1099; discussion 1100. Comment on: Lancet 1996 Jul 27;348(9022):219–23.

Relationship of structure of function in pneumolysin. Andrew PW, et al. **Microb Drug Resist** 1997 Spring;3(1):11–7 (49 ref.)

Alternative pathway activation of the complement system in preterm infants with early onset infection. Zilow EP, et al. **Pediatr Res** 1997 Mar;41(3):334–9

Luminal bacteria and small-intestinal permeability. Riordan SM, et al. **Scand J Gastroenterol** 1997 Jun;32(6):556–63

Bacterial translocation and pulmonary infections in a swine model of small bowel transplantation: influence of enteral nutrition. Biffi R, et al. **Transplant Proc** 1996 Oct; 28(5):2662–3

To sting or be stung: bacteria-induced apoptosis [letter] Lindgren SW, et al. **Trends Microbiol** 1997 Jul;5(7):263–4

PREVENTION & CONTROL

Bacterial airway filters in combination with inhalation therapy in the ICU. Rösblad PG, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):947–8

Sealing the catheter exit site with dressing film and its effectiveness in preventing exit-site infection: bacterial culture. Tanaka S. **Adv Perit Dial** 1996;12:214–7

Combination vaccines. Ellis RW, et al. **Adv Pharmacol** 1997; 39:393–423 (60 ref.)

Treating acute bronchitis with azithromycin [letter] Mosby JA. **Am Fam Physician** 1997 Feb 1;55(2):444, 447–8

Control of infections caused by drug-resistant organisms in critical care. Hoppe B. **Am J Crit Care** 1997 Mar;6(2):141–4

Antibiotic prophylaxis for spontaneous bacterial peritonitis [letter; comment] Yarze JC, et al. **Am J Gastroenterol** 1997 Jan;92(1):180. Comment on: Am J Gastroenterol 1996 May;91(5):1050–1.

Exposure risks related to the management of three wound drainage systems. Zerbe M, et al. **Am J Infect Control** 1996 Oct;24(5):346–52

Antibiotic prophylaxis for hemodialysis access placement [editorial; comment] Kovalik EC, et al. **Am J Kidney Dis** 1997 Sep;30(3):448. Comment on: Am J Kidney Dis 1997 Sep;30(3):343–8.

The efficacy of exit site povidone-iodine ointment in the prevention of early peritoneal dialysis-related infections. Waite NM, et al. **Am J Kidney Dis** 1997 May;29(5):763–8

Preoperative vancomycin prophylaxis decreases incidence of postoperative hemodialysis vascular access infections [see comments] Zibari GB, et al. **Am J Kidney Dis** 1997 Sep; 30(3):343–8. Comment in: Am J Kidney Dis 1997 Sep;30(3):448.

Chlorhexidine versus sterile water vaginal wash during labor to prevent peripartum infection. Sweeten KM, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):426–30

Granulocyte-macrophage colony-stimulating factor as infection prophylaxis in high-risk oncologic surgery. Meropol NJ, et al. **Am J Surg** 1996 Sep;172(3):299–302

Utility of the routine chest X-ray after "over-wire" venous catheter changes. Riblet JL, et al. **Am Surg** 1996 Dec; 62(12):1064–5

Central venous catheters revisited--infection rates and an assessment of the new Fibrin Analysing System brush [see comments] van Heerden PV, et al. **Anaesth Intensive Care** 1996 Jun;24(3):330–3. Comment in: Anaesth Intensive Care 1996 Dec;24(6):726.

Molecular mechanisms of lymphocyte-mediated cytotoxicity and their role in immunological protection and pathogenesis in vivo. Kägi D, et al. **Annu Rev Immunol** 1996;14:207–32 (157 ref.)

Clinical pharmacokinetics of piperacillin-tazobactam combination in patients with major burns and signs of infection. Bourget P, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):139–45

Haemopoietic colony stimulating factors for preterm neonates. Carr R, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F128–33 (89 ref.)

The role of antibiotic prophylaxis in severe acute pancreatitis. Ho HS, et al. **Arch Surg** 1997 May;132(5):487–92; discussion 492–3

Randomized placebo-controlled trial of teicoplanin in the antibiotic prophylaxis of infection following manipulation of burn wounds. Steer JA, et al. **Br J Surg** 1997 Jun; 84(6):848–53

An assessment of the ability of a silver-releasing device to prevent bacterial contamination of urethral catheter drainage systems. Stickler DJ, et al. **Br J Urol** 1996 Oct; 78(4):579–88

Evaluation of the cathetron system for recycling angioplasty catheters [see comments] Bryce EA, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):132–5. Comment in: Cathet Cardiovasc Diagn 1997 Jun;41(2):136.

Low-dose, single-shot perioperative antibiotic prophylaxis in colorectal surgery. Peiper C, et al. **Chemotherapy** 1997 Jan-Feb;43(1):54–9

Randomized controlled trial of selective bowel decontamination for prevention of infections following liver transplantation. Arnow PM, et al. **Clin Infect Dis** 1996 Jun;22(6):997–1003

Randomized, controlled trial of selective digestive decontamination in 600 mechanically ventilated patients in a multidisciplinary intensive care unit. Verwaest C, et al. **Crit Care Med** 1997 Jan;25(1):63–71

Enteric immunization: promises and challenges. Brown WR. **Dig Dis** 1996 May-Jun;14(3):192–200 (41 ref.)

Antiseptic-impregnated central venous catheters reduce the incidence of bacterial colonization and associated infection in immunocompromised transplant patients. George SJ, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):428–31

Prevention of patient bacterial contamination of anaesthesia-circle-systems: a clinical study of the contamination risk and performance of different heat and moisture exchangers with electret filter (HMEF). Rathgeber J, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):368–73

Surveillance of infections in hospital: agents and antibiotic-resistance. Riccardi F, et al. **Eur J Epidemiol** 1997 Feb;13(2):217–21

Bone-dust in autopsies: reduction of spreading. Kernbach-Wighton G, et al. **Forensic Sci Int** 1996 Dec 2;83(2):95–103

Cost-analysis of prophylactic antibiotics in spontaneous bacterial peritonitis. Inadomi J, et al. **Gastroenterology** 1997 Oct;113(4):1289–94

Influence of postoperative enteral nutrition on postsurgical infections. Beier-Holgersen R, et al. **Gut** 1996 Dec; 39(96):833–5

Chemoprophylaxis with ciprofloxacin in ovarian cancer patients receiving paclitaxel: a randomized trial. Carlson JW, et al. **Gynecol Oncol** 1997 May;65(2):325–9

Antibiotics for prophylaxis and treatment of intra-abdominal infections. Michalopoulos A, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):947–58 (76 ref.)

Continuous versus inpatient prophylaxis of the first episode of spontaneous bacterial peritonitis with norfloxacin. Novella M, et al. **Hepatology** 1997 Mar;25(3):532–6

Systemic antibiotic prophylaxis after gastrointestinal hemorrhage in cirrhotic patients with a high risk of infection. Pauwels A, et al. **Hepatology** 1996 Oct; 24(4):802–6

Postexposure prophylaxis. Lutwick LI. **Infect Dis Clin North Am** 1996 Dec;10(4):899–915 (85 ref.)

Host immunologic augmentation for the control of infection. Wingard JR, et al. **Infect Dis Clin North Am** 1996 Jun; 10(2):345–64 (111 ref.)

Penetration of ampicillin and sulbactam into human epididymis and testis. Klotz T, et al. **Infection** 1996 Sep-Oct;24(5):372–4

Endodontic failures--changing the approach. Cheung GS. **Int Dent J** 1996 Jun;46(3):131–8 (30 ref.)

Retention of the antibiotic teicoplanin on a hydromer-coated central venous catheter to prevent bacterial colonization in postoperative surgical patients. Bach A, et al. **Intensive Care Med** 1996 Oct;22(10):1066–9

Local infections at cannula site [letter] Birkinshaw R, et al. **J Accid Emerg Med** 1997 May;14(3):199

Waterlines revisited [letter] Merijohn GK. **J Am Dent Assoc** 1997 Sep;128(9):1198, 1200

Comparison of dental water quality management procedures. Murdoch-Kinch CA, et al. **J Am Dent Assoc** 1997 Sep; 128(9):1235–43

In-vitro and in-vivo activities of DW-116, a new fluoroquinolone. Choi KH, et al. **J Antimicrob Chemother** 1997 Apr;39(4):509–14

Cefotaxime in the treatment of prophylaxis of surgical infections. Wittmann DH, et al. **J Chemother** 1997 May;9 Suppl 2:19–33 (70 ref.)

Determinants of the efficacy of prophylactic granulocyte transfusions: a meta-analysis. Vamvakas EC, et al. **J Clin Apheresis** 1997;12(2):74–81

Guidelines for antimicrobial prophylaxis. Nahata MC. **J Clin Pharm Ther** 1996 Aug;21(4):255–60

Hand washing with soap reduces diarrhoea and spread of bacterial pathogens in a Bangladesh village. Shahid NS, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):85–9

An economic analysis of norfloxacin prophylaxis against spontaneous bacterial peritonitis. Younossi ZM, et al. **J Hepatol** 1997 Aug;27(2):295–8

Low bacterial contamination of nebulizers in home treatment of cystic fibrosis patients. Jakobsson BM, et al. **J Hosp Infect** 1997 Jul;36(3):201–7

Bacterial contamination of autologous bone marrow during processing [see comments] Smith D, et al. **J Hosp Infect** 1996 May;33(1):71–6. Comment in: J Hosp Infect 1996 Sep;34(1):77–8. Comment in: J Hosp Infect 1996 Nov;34(3):230–3.

An in-vitro evaluation of the activity of povidone-iodine against nosocomial bacterial strains. Traoré O, et al. **J Hosp Infect** 1996 Nov;34(3):217–22

A bacteriological study of a contamination control tacky mat [letter] Traore O, et al. **J Hosp Infect** 1997 Jun;36(2):158–60

Single dose cefazolin prophylaxis for postcesarean infections: before vs. after cord clamping. Wax JR, et al. **J Matern Fetal Med** 1997 Jan-Feb;6(1):61–5

Oral antimicrobials in compound fracture of the hand: comparison of dicloxacillin and ofloxacin. Waikakul S, et al. **J Med Assoc Thai** 1996 Sep;79(9):585–8

Vaccines against bacterial zoonoses [editorial] Corbel MJ. **J Med Microbiol** 1997 Apr;46(4):267–9

Development of antibiotic resistance: a vet's tale. Wray C. **J Med Microbiol** 1997 Jan;46(1):26–33 (228 ref.)

Do the binding properties of oligosaccharides in milk protect human infants from gastrointestinal bacteria? Newburg DS. **J Nutr** 1997 May;127(5 Suppl):980S–984S (18 ref.)

Cardiac surgery in a high-risk group of patients: is prolonged postoperative antibiotic prophylaxis effective? Niederhäuser U, et al. **J Thorac Cardiovasc Surg** 1997 Aug; 114(2):162–8

Breastmilk oligosaccharides point the way to new therapeutic strategies [editorial] Ebrahim GJ. **J Trop Pediatr** 1997 Feb; 43(1):2–3

Bacterial infections in diabetes mellitus: are calcium channel blockers beneficial? [editorial; comment] Orth SR, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):248–9. Comment on: Nephrol Dial Transplant 1997 Feb;12(2):265–72.

Exposure control plans define risks for bloodborne pathogen infections. Muir TW 3rd. **Occup Health Saf** 1994 Apr; 63(4):75–8, 80

Shielding eyes against bloodborne pathogens. Roll D. **Occup Health Saf** 1997 Mar;66(3):54–5

Occupational health issues in the pharmaceutical research and development process. Klees JE, et al. **Occup Med** 1997 Jan–Mar;12(1):5–27 (155 ref.)

Bacterial infection in patients with cancer: focus on prevention. **Oncology (Huntingt)** 1997 Jun;11(6):772, 775–6

Prophylactic antibiotics in treatment of severe acute alcoholic pancreatitis. Delcenserie R, et al. **Pancreas** 1996 Aug; 13(2):198–201

Therapeutic effects of continuous intraarterial antibiotic infusion in preventing pancreatic infection in experimental acute necrotizing pancreatitis. Hayashi J, et al. **Pancreas** 1996 Aug;13(2):184–92

Do oral antibiotics prevent meningitis and serious bacterial infections in children with Streptococcus pneumoniae occult bacteremia? A meta-analysis. Rothrock SG, et al. **Pediatrics** 1997 Mar;99(3):438–44

Recommendations for exit care. Prowant BF, et al. **Perit Dial Int** 1996;16 Suppl 3:S94–S99

A practical technique for disinfecting electrical stimulation apparatuses used in wound treatment. Kalinowski DP, et al. **Phys Ther** 1996 Dec;76(12):1340–7

Critical protective role of mast cell-derived tumour necrosis factor in bacterial infection. Männel DN, et al. **Res Immunol** 1996 Oct–Dec;147(8–9):491–3 (14 ref.)

Vancomycin serum concentrations in patients with renal dysfunction: a comparison of fluorescence polarization immunoassay and the enzyme-multiplied immunoassay technique. Peckman HJ, et al. **Ther Drug Monit** 1996 Dec; 18(6):647–53

Prophylactic antibiotics in renal transplantation. Melchor JL, et al. **Transplant Proc** 1996 Dec;28(6):3305

Influence of different protocols of antibiotic prophylaxis on endoluminal bacterial overgrowth and translocation following small-bowel or combined liver-small-bowel transplantation in a large-animal model. Privitera G, et al. **Transplant Proc** 1997 May;29(3):1826–8

Bacteriophage therapy and prophylaxis: rediscovery and renewed assessment of potential. Barrow PA, et al. **Trends Microbiol** 1997 Jul;5(7):268–71 (21 ref.)

Clinical studies on the use of antibiotic- and antiseptic-bonded catheters to prevent catheter-related infection. Bach A. **Zentralbl Bakteriol** 1995 Dec; 283(2):208–14 (32 ref.)

Prevention of catheter-related infections by silver coated central venous catheters in oncological patients. Goldschmidt H, et al. **Zentralbl Bakteriol** 1995 Dec; 283(2):215–23

Polymer materials for the prevention of catheter-related infections. Kohnen W, et al. **Zentralbl Bakteriol** 1995 Dec; 283(2):175–86 (58 ref.)

[Intravenous administration of Augmentin in the prevention of infectious complications in abdominal hysterectomy] Kučera E, et al. **Ceska Gynekol** 1996 Jun;61(3):148–50 (Eng. Abstr.) **(Cze)**

[Prevention of bacterial infections in immunocompromised hosts, excluding HIV infection and mycobacterium infections] Raguin G. **Ann Med Interne (Paris)** 1997; 148(3):218–25 (84 ref.) (Eng. Abstr.) **(Fre)**

[Comparison of the efficacy of 2 antiseptic solutions in the prevention of infection from peridural catheters] Adam MN, et al. **Cah Anesthesiol** 1996;44(5):465–7 (Eng. Abstr.) **(Fre)**

[Prevention of opportunistic infections in HIV seropositive patients. Prevention of bacterial infections] Casassus P, et al. **Presse Med** 1997 Mar 8;26(7):340–3 (29 ref.) (Eng. Abstr.) **(Fre)**

[Prevention multi-resistant bacterial infections in resuscitation (excluding modalities of optimization of antibiotic therapy). 16th Consensus Conference on resuscitation and emergency medicine. 1996 November 21 Thursday, Scientific Information Center of ARC, Villejuif] **Rev Pneumol Clin** 1997;53(2):107–10 (0 ref.) **(Fre)**

[Routine bacteriologic screening of intensive care patients: pro] Bach A. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Feb; 32(2):117–9 **(Ger)**

[Routine bacteriological screening of intensive care patients: contra] Scheidegger C, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Feb; 32(2):115–6 **(Ger)**

[What is prevention of perioperative infection? Overview exemplified by trauma surgery] Hansis M. **Chirurg** 1996 Nov;67(11):1123–8 (18 ref.) (Eng. Abstr.) **(Ger)**

[Iodine—the place of an old disinfectant in the modern infectious disease specialty (letter)] König B, et al. **Dtsch Med Wochenschr** 1997 Jan 31;122(5):141 **(Ger)**

[Antibiotic use in necrotizing pancreatitis. Results of a controlled study] Schwarz M, et al. **Dtsch Med Wochenschr** 1997 Mar 21;122(12):356–61 (Eng. Abstr.) **(Ger)**

[Microbiological risks in animal carcass removal and utilization for human and animal health] Bisping W. **DTW Dtsch Tierarztl Wochenschr** 1997 Jul;104(7):247–50 (Eng. Abstr.) **(Ger)**

[When is antibiotic prophylaxis required?] Hansis M. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:708–12 (16 ref.) (Eng. Abstr.) **(Ger)**

[Disinfection of the environment and patients on intensive care units] Daschner F, et al. **Zentralbl Chir** 1996;121 Suppl:35–6 **(Ger)**

[Perioperative managements for postoperative severe infections in compromised host] Yokoyama T, et al. **Nippon Geka Gakkai Zasshi** 1996 Dec;97(12):1060–5 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Prophylaxis of infectious intestinal diseases before leaving for underdeveloped countries] Sakaue Y. **Rinsho Byori** 1997 May;45(5):415–20 (0 ref.) (Eng. Abstr.) **(Jpn)**

[The effects of preventive regimens for the prophylaxis of infection after bone marrow transplantation] Morishima Y, et al. **Rinsho Ketsueki** 1997 Feb;38(2):108–16 (Eng. Abstr.) **(Jpn)**

[Problems in drug prevention and treatment of endogenous infection and dysbacteriosis] Melńikova VM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):26–9 (21 ref.) (Eng. Abstr.) **(Rus)**

[Inhibition of bacterial adherence—possibilities of prevention and therapy] Vraneš J. **Lijec Vjesn** 1996 Jul–Aug; 118(7–8):171–7 (92 ref.) (Eng. Abstr.) **(Scr)**

[Primary prophylaxis of spontaneous bacterial peritonitis (editorial)] Soriano G, et al. **Gastroenterol Hepatol** 1997 Jun–Jul;20(6):312–4 (24 ref.) **(Spa)**

[Use of third-generation cephalosporins in infections in organ transplantation recipients] Gobernado Serrano M. **Rev Clin Esp** 1995 Oct;195 Spec No:59–63 **(Spa)**

[Heart surgery with reduced occurrence of infections. New routines and continuous registration are proposed] Arén C, et al. **Lakartidningen** 1997 Jun 4;94(23):2173–6 **(Swe)**

RADIOGRAPHY

Abdominal case of the day. Recurrent pyogenic cholangitis (RPC). Herbener TE, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):251, 254

RADIONUCLIDE IMAGING

FDG-PET in infectious lesions: The detection and assessment of lesion activity. Ichiya Y, et al. **Ann Nucl Med** 1996 May;10(2):185–91

Clinical evaluation of technetium-99m infecton for the localisation of bacterial infection. Britton KE, et al. **Eur J Nucl Med** 1997 May;24(5):553–6

Detection of anaerobic odontogenic infections by fluorine-18 fluoromisonidazole. Liu RS, et al. **Eur J Nucl Med** 1996 Oct;23(10):1384–7

[Diagnosis of infective spondylitis. Value of bone marrow scintigraphy with 99mTC monoclonal granulocyte antibodies in combination with 99mTc-DPD bone scintigraphy] Görres G, et al. **Rontgenpraxis** 1996 Sep; 49(9):235–8 **(Ger)**

SURGERY

Management of intra-abdominal infections. The case for intraoperative cultures and comprehensive broad-spectrum antibiotic coverage. The Canadian Intra-abdominal Infection Study Group. Christou NV, et al. **Arch Surg** 1996 Nov;131(11):1193–201

Surgical treatment of severe intra-abdominal infection. van Goor H. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):975–81 (90 ref.)

Bacterial translocation after mesenteric ligation in dogs. Bibbo C, et al. **J Invest Surg** 1996 Jul–Aug;9(4):293–303

Primary reconstruction for spinal infections. Dietze DD Jr, et al. **J Neurosurg** 1997 Jun;86(6):981–9

Instrumentation of the infected and unstable spine: a review of 17 cases from the thoracic and lumbar spine with pyogenic infections. Carragee EJ. **J Spinal Disord** 1997 Aug;10(4):317–24

Aggressive surgical management of sternoclavicular joint infections. Carlos GN, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):242–7

Management of large infected tibial defects with antibiotic beads local therapy and staged fibular osteoseptocutaneous free transfer. Ueng SW, et al. **J Trauma** 1997 Aug; 43(2):268–74

Infected aneurysms—clinical study of 5 cases. Fujimura T, et al. **Tokai J Exp Clin Med** 1996 Feb;21(1):25–31

Single and multiple pyogenic liver abscesses: clinical course, etiology, and results of treatment. Chou FF, et al. **World J Surg** 1997 May;21(4):384–8; discussion 388–9

[Anaerobic surgical infection and septic shock] Iarümov N, et al. **Khirurgiia (Sofiia)** 1996;49(6):19–22 (Eng. Abstr.) **(Bul)**

[Refractory endophthalmitis after bulbus perforation after careless handling of orthodontic headgear] Kammann MT, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):337–8 (Eng. Abstr.) **(Ger)**

[Local antiseptic and anti-endotoxin measures in intra-abdominal infections] Görtz G. **Langenbecks Arch Chir** 1997;382(4 Suppl 1):S37–41 (Eng. Abstr.) **(Ger)**

[Therapeutic concept in treatment of suppurative mediastinitis] Krein AE, et al. **Zentralbl Chir** 1996;121 Suppl:44–5 **(Ger)**

[Active surgical treatment of non-Clostridial infection of soft tissues] Shapoval SD. **Klin Khir** 1996;(5):8–9 **(Rus)**

THERAPY

A flexible metal ventricular catheter for treatment of complicated and protracted infections of the cerebrospinal fluid spaces: preliminary experiences. Vieweg U, et al. **Acta Neurochir (Wien)** 1996;138(12):1431–6

Bacterial osteomyelitis in adults: evolving considerations in diagnosis and treatment. Hass DW, et al. **Am J Med** 1996 Nov;101(5):550–61 (117 ref.)

Undertreatment and overtreatment of patients with infected antiarrhythmic implantable devices. Molina JE. **Ann Thorac Surg** 1997 Feb;63(2):504–9

Recombinant secretory IgA for immune intervention against mucosal pathogens. Corthésy B. **Biochem Soc Trans** 1997 May;25(2):471–5 (27 ref.)

Hyperbaric oxygen in the treatment of diabetic foot infection. Lee SS, et al. **Chang Keng I Hsueh** 1997 Mar;20(1):17–22

Pressure ulcers. Managing bacterial colonization and infection. Stotts NA, et al. **Clin Geriatr Med** 1997 Aug; 13(3):565–73 (45 ref.)

Present studies of therapy for anaerobic infections. Finegold SM, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S9–14 (9 ref.)

Hand infections in patients with diabetes. Kour AK, et al. **Clin Orthop** 1996 Oct;(331):238–44

Novel approaches to the prevention and therapy of neonatal bacterial sepsis. Perez EM, et al. **Clin Perinatol** 1997 Mar; 24(1):213–29 (119 ref.)

Salvage of the septic ankle with concomitant tibial osteomyelitis. Thordarson DB, et al. **Foot Ankle Int** 1997 Mar;18(3):151–6

Management of the patient with an infected knee arthroplasty. Pellegrini VD Jr. **Instr Course Lect** 1997; 46:215–9 (29 ref.)

Influence of immunoglobulin and interleukin 2 on the translocation of microorganisms from gut into blood. Seifert J, et al. **J Anat** 1996 Dec;189 (Pt 3):549–52

Meta-analysis of clinical studies of the efficacy of granulocyte transfusions in the treatment of bacterial sepsis. Vamvakas EC, et al. **J Clin Apheresis** 1996;11(1):1–9

Control of fecal peritoneal infection in mice by colony-stimulating factors. Barsig J, et al. **J Infect Dis** 1996 Oct;174(4):790–9

Potential application of human interferon-alpha in microbial infections of the oral cavity. Fujioka N, et al. **J Interferon Cytokine Res** 1995 Dec;15(12):1047–51

Anaerobic culture yield in interventional radiologic drainage procedures. Malden ES, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):933–7

Effects of dopamine and adrenaline infusions in severe infection [letter; comment] Barry B, et al. **Lancet** 1996 Oct 19;348(9034):1099–100. Comment on: Lancet 1996 Jul 27;348(9022):219–23.

Randomised placebo-controlled trial of granulocyte-colony stimulating factor in diabetic foot infection. Gough A, et al. **Lancet** 1997 Sep 20;350(9081):855–9

Combination therapy with BRMs in cancer and infectious diseases. Garaci E, et al. **Mech Ageing Dev** 1997 Jun; 96(1–3):103–16 (57 ref.)

Infected total knee arthroplasty: review. Berman AT, et al. **Orthopedics** 1997 Jun;20(6):563–6 (17 ref.)

Debugging pancreatic infections [letter; comment] Bradley EL 3rd. **Pancreas** 1997 Mar;14(2):205–7. Comment on: Pancreas 1996 Apr;12(3):298–302.

Management of the young febrile child: a continuing controversy. Bauchner H, et al. **Pediatrics** 1997 Jul; 100(1):137–8

The role of curettage in the care of persistent exit-site infection in CAPD patients. Ahmed Z, et al. **Perit Dial Int** 1997 Mar–Apr;17(2):195–7

Recommendations for treatment of exit-site pathology. Khanna R, et al. **Perit Dial Int** 1996;16 Suppl 3:S100–S104

Fat emulsion infusion potentiates coagulation activation during human endotoxemia. van der Poll T, et al. **Thromb Haemost** 1996 Jan;75(1):83–6

A proposal for an individual patient data based meta-analysis of randomized controlled trials of allogeneic transfusion and postoperative bacterial infection. Vamvakas EC, et al. **Transfus Med Rev** 1997 Jul;11(3):180–94

Bacteriophage therapy and prophylaxis: rediscovery and renewed assessment of potential. Barrow PA, et al. **Trends Microbiol** 1997 Jul;5(7):268–71 (21 ref.)

[Post-infectious systemic vasculitis: recovery without corticotherapy] Cacoub P, et al. **J Mal Vasc** 1997; 22(1):29–34 (Eng. Abstr.) **(Fre)**

[Outcomes research exemplified by infection] Witthaut R, et al. **Internist (Berl)** 1996 Dec;37(12):1249–59 (35 ref.) **(Ger)**

[Acute infectious endocarditis] Horstkotte D, et al. **Wien Klin Wochenschr** 1997 Feb 28;109(4):105–15 (54 ref.) **(Ger)**

[Risk of infection and wound healing disorders in dialysis patients] Zimmermann J, et al. **Zentralbl Chir** 1996;121 Suppl:58–60 (14 ref.) **(Ger)**

[Sepsis—generalized infection. The treatment of adults based on personal observations (editorial)] Olejnik Z, et al. **Pol Tyg Lek** 1996 Jun;51(23–26):314–7 (Eng. Abstr.) **(Pol)**

[Local treatment in anaerobic infections of soft tissues] Tamm TI. **Klin Khir** 1996;(5):5–7 **(Rus)**

[Infections and granulocyte colony-stimulating factor (G-CSF) (editorial)] Solovera JJ. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):409–10 **(Spa)**

[Prevention and treatment of bacterial infections in bone marrow transplantation] Sanz Alonso MA, et al. **Rev Clin Esp** 1995 Oct;195 Spec No:19–21 **(Spa)**

TRANSMISSION

Bacterial strains isolated from eggs and their resistance to currently used antibiotics: is there a health hazard for consumers? Papadopoulou C, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jan;20(1):35–40

WHO Scientific Working Group on monitoring and management of bacterial resistance to antimicrobial agents. Tenover FC, et al. **Emerg Infect Dis** 1995 Jan–Mar;1(1):37

Bacterial colonization as a potential source of nosocomial respiratory infections in two types of spirometer [see comments] Burgos F, et al. **Eur Respir J** 1996 Dec; 9(12):2612–7. Comment in: Eur Respir J 1997 Jul;10(7):1694–5.

Bacterial colonization as a potential source of nosocomial

respiratory infections in spirometers [letter; comment] Kendrick AH, et al. **Eur Respir J** 1997 Jul;10(7):1694–5. Comment on: Eur Respir J 1996 Dec;9(12):2612–7.

Perinatally transmitted neonatal bacterial infections. Eichenwald EC. **Infect Dis Clin North Am** 1997 Mar; 11(1):223–39 (68 ref.)

First encounters: transmission of infectious oral diseases from mother to child. Slavkin HC. **J Am Dent Assoc** 1997 Jun; 128(6):773–8

Serial surveillance cultures of skin and catheter hub specimens from critically ill patients with central venous catheters: molecular epidemiology of infection and implications for clinical management and research. Atela I, et al. **J Clin Microbiol** 1997 Jul;35(7):1784–90

Molecular diagnostics for dairy-borne pathogens. Batt CA. **J Dairy Sci** 1997 Jan;80(1):220–9 (39 ref.)

Epidemiologic evidence of transmission of donor-related bacterial infection through a transplanted heart. Coll P, et al. **J Heart Lung Transplant** 1997 Apr;16(4):464–7

Bacterial contamination of autologous bone marrow during processing [letter; comment] Farrington M, et al. **J Hosp Infect** 1996 Nov;34(3):230–3. Comment on: J Hosp Infect 1996 May;33(1):71–6.

Bacterial colonization and yeast carriage on the hands of nurses [letter] Findik D, et al. **J Hosp Infect** 1996 Nov; 34(3):235–7

Bacterial transmission in periodontal diseases: a critical review. Greenstein G, et al. **J Periodontol** 1997 May; 68(5):421–31 (84 ref.)

A model of the transmission of antibiotic-resistant bacteria in the intensive care unit. Barza M. **New Horiz** 1996 Aug; 4(3):333–7 (29 ref.)

Microbiologic contamination of peripheral blood progenitor cells collected for hematopoietic cell transplantation. Espinosa MT, et al. **Transfusion** 1996 Sep;36(9):789–93

Sources and sequelae of bacterial contamination of hematopoietic stem cell components: implications for the safety of hematotherapy and graft engineering. Webb IJ, et al. **Transfusion** 1996 Sep;36(9):782–8

Colonization and translocation of intestinal bacterial flora. Wells CL. **Transplant Proc** 1996 Oct;28(5):2653–6 (78 ref.)

Virulence and transmissibility of pathogens: what is the relationship? Lipsitch M, et al. **Trends Microbiol** 1997 Jan; 5(1):31–7 (69 ref.)

Transmission factors for insect-vectored microorganisms. Paskewitz SM. **Trends Microbiol** 1997 May;5(5):171–3

Irradiation as a cold pasteurization process of food [published erratum appears in Vet Parasitol 1997 Jul 15;71(1):65] Loaharanu P. **Vet Parasitol** 1996 Aug;64(1–2):71–82 (56 ref.)

[Imported diseases (editorial)] Bygbjerg IC. **Ugeskr Laeger** 1997 May 5;159(19):2830–1 **(Dan)**

[Gardnerella vaginalis in a newborn infant: contamination or infection, apropos of a case (letter)] Rivière H, et al. **Ann Biol Clin (Paris)** 1996;54(8–9):333–4 **(Fre)**

[Emergent infectious diseases: a new problem? (editorial)] Prado V. **Rev Med Chil** 1996 Jan;124(1):7–10 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Intraoperative US diagnosis of pylephlebitis (portal vein thrombosis) as a complication of appendicitis: a case report. Farin P, et al. **Abdom Imaging** 1997 Jul–Aug;22(4):401–3

URINE

Urine sampling methods in the elderly [letter; comment] Belmin J. **Drugs Aging** 1997 Feb;10(2):167. Comment on: Drugs Aging 1996 Nov;9(5):352–62.

Excretion of N-nitrosamines in patients with bacterial bladder infections or diversions of the urinary tract. Tricker AR. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:95–9

Interferences of urinary tract infection in the measurement of urinary nitrous oxide. Apostoli P, et al. **Occup Environ Med** 1996 Sep;53(9):591–4

Evaluation of a rapid screening filter test for urinary tract infection in children. Shaw KN, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):283–7

Urine latex agglutination tests [letter; comment] Adcock PM, et al. **Pediatrics** 1996 Oct;98(4 Pt 1):798–9. Comment on: Pediatrics 1995 Nov;96(5 Pt 1):951–4.

[Neopterin as marker of immunologic activation in viral and bacterial infections] Panero López A, et al. **An Esp Pediatr** 1996 Dec;45(6):597–602 (Eng. Abstr.) **(Spa)**

VETERINARY

Novel approaches to control of bacterial infections in animals. Barrow PA. **Acta Vet Hung** 1997;45(3):317–29 (33 ref.)

Economic evaluation of national eradication and control strategies for Mycoplasma hyopneumoniae in Denmark. Baekbo P, et al. **Acta Vet Scand Suppl** 1996;90:63–5

In vitro activity of premafloxacin, a new extended-spectrum fluoroquinolone, against pathogens of veterinary importance. Watts JL, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1190–2

Comparison of methods to assess dog owners' therapeutic compliance [see comments] Barter LS, et al. **Aust Vet J** 1996 Dec;74(6):443–6. Comment in: Aust Vet J 1996 Dec;74(6):442.

How to modify conditions limiting resistance in bacteria in animals and other reservoirs. Helmuth R, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S136–8

Prevalence of Helicobacter-like organisms in porcine gastric mucosa: a study of swine slaughtered in Italy. Grasso GM, et al. **Comp Immunol Microbiol Infect Dis** 1996 Jun; 19(3):213–7

Treatment of bacterial tarsal tenosynovitis and osteitis of the sustentaculum tali of the calcaneus in five horses. Santschi EM, et al. **Equine Vet J** 1997 May;29(3):244–7

Plasma endotoxin concentrations in experimental and clinical equine subjects. Fessler JF, et al. **Equine Vet J Suppl** 1989 Jun;(7):24–8

Organisms isolated from dogs and cats with anaerobic infections and susceptibility to selected antimicrobial agents. Jang SS, et al. **J Am Vet Med Assoc** 1997 Jun 1; 210(11):1610–4

Premafloxacin: a projected veterinary use fluoro-quinolone with significant activity against multi-resistant gram-positive human pathogens [letter] Zerva L, et al. **J Antimicrob Chemother** 1996 Oct;38(4):742–4

Developed and resolving lesions in porcine proliferative enteropathy: possible pathogenetic mechanisms. McOrist S, et al. **J Comp Pathol** 1996 Jul;115(1):35–45

New combination for the therapy of canine otitis externa. I. Microbiology of otitis externa. Kiss G, et al. **J Small Anim Pract** 1997 Feb;38(2):51–6

Application of a polymerase chain reaction assay for detection of proliferative enteritis-affected swine herds. Holyoake PK, et al. **J Vet Diagn Invest** 1996 Apr;8(2):181–5

In vitro activity of ceftiofur and its primary metabolite, desfuroylceftiofur, against organisms of veterinary importance. Salmon SA, et al. **J Vet Diagn Invest** 1996 Jul;8(3):332–6

Pathophysiological changes evoked by lipopolysaccharide administration in goats. Takeuchi Y, et al. **J Vet Med Sci** 1997 Feb;59(2):125–7

Fluoroquinolones in animal health. Brown SA. **J Vet Pharmacol Ther** 1996 Feb;19(1):1–14 (131 ref.)

Cleavage of influenza A virus H1 hemagglutinin by swine respiratory bacterial proteases. Callan RJ, et al. **J Virol** 1997 Oct;71(10):7579–85

Surgical removal of infected phalanges from an Asian elephant (Elephas maximus). Gage LJ, et al. **J Zoo Wildl Med** 1997 Jun;28(2):208–11

Microbiological monitoring of laboratory pigs. Hansen AK, et al. **Lab Anim** 1997 Jul;31(3):193–200

Special challenges of maintaining wild animals in captivity in Australia and New Zealand: prevention of infectious and parasitic diseases. Schultz DJ, et al. **Rev Sci Tech** 1996 Mar;15(1):289–308 (53 ref.)

Infectious and parasitic diseases of captive carnivores, with special emphasis on the black-footed ferret (Mustela nigripes). Williams ES, et al. **Rev Sci Tech** 1996 Mar; 15(1):91–114 (154 ref.)

Detection of animal pathogens by using the polymerase chain reaction (PCR). Rodriguez JM. **Vet J** 1997 May; 153(3):287–305 (232 ref.)

Diseases of freshwater fish. Haenen OL. **Vet Q** 1996;18 Suppl 3:S132–3 (24 ref.)

The effect of discontinuation of postmilking teat disinfection in low somatic cell count herds. II. Dynamics of intramammary infections. Lam TJ, et al. **Vet Q** 1997 Jun; 19(2):47–53

Causes of mortality and morbidity in exhibition budgerigars in the United Kingdom. Baker JR. **Vet Rec** 1996 Aug 17; 139(7):156–62

Megabacteria in diseased and healthy budgerigars. Baker JR. **Vet Rec** 1997 Jun 14;140(24):627

Usage of antibacterial and antiparasitic drugs in animals in Sweden between 1988 and 1993 [published erratum appears in Vet Rec 1996 Oct 5;139(14):350] Björnerot L, et al. **Vet Rec** 1996 Sep 21;139(12):282–6

Prevalence of microorganisms in dead mink kits from Aleutian-disease-infected and non-infected farms. Martino PE, et al. **Vet Res** 1996;27(6):607–12

Bacterial identity and characteristics in healthy and unhealthy respiratory tracts of sheep and calves. Barbour EK, et al. **Vet Res Commun** 1997 Aug;21(6):421–30

Detection of bacteria in equine synovial fluid by use of the polymerase chain reaction. Crabill MR, et al. **Vet Surg** 1996 May–Jun;25(3):195–8

Bacterial isolates from plaque and from blood during and after routine dental procedures in dogs. Nieves MA, et al. **Vet Surg** 1997 Jan–Feb;26(1):26–32

[Microbiological risks in animal carcass removal and utilization for human and animal health] Bisping W. **DTW Dtsch Tierarztl Wochenschr** 1997 Jul;104(7):247–50 (Eng. Abstr.) **(Ger)**

[Prophylactic measures against infection in dairy cattle—necessity of hygiene management] Fehlings K, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Aug; 104(8):306–12 (Eng. Abstr.) **(Ger)**

[Antibiotic resistance of important infection sources in 1996 in Weser-Ems] Klarmann D. **DTW Dtsch Tierarztl Wochenschr** 1997 Aug;104(8):325–35 (Eng. Abstr.) **(Ger)**

[Frequency and etiology of calf losses and calf diseases before weaning in cow-calf farms. II. Microbiological and parasitological diagnoses in diarrheic calves] Steiner L, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 May; 104(5):169–73 (Eng. Abstr.) **(Ger)**

[Development of resistance in infectious agents of agricultural animals in Germany (1990–1994)—a review] Trolldenier H. **DTW Dtsch Tierarztl Wochenschr** 1996 Jul; 103(7):256–60 (9 ref.) (Eng. Abstr.) **(Ger)**

[Results of bacteriologic and mycologic investigations of otitis media in dogs] Breitwieser F. **Tierarztl Prax** 1997 May;25(3):257–60 (Eng. Abstr.) **(Ger)**

[Experience with the use of a blood culture system for demonstration of clinically relevant bacteria in veterinary medicine diagnosis] Gareis M, et al. **Tierarztl Prax** 1996 Oct;24(5):419–25 (Eng. Abstr.) **(Ger)**

[Infectious burdens of reproduction of female dogs] Wendt K, et al. **Tierarztl Prax** 1996 Feb;24(1):79–84 (Eng. Abstr.) **(Ger)**

BACTERIAL INFECTIONS, GRAM-NEGATIVE see **GRAM-NEGATIVE BACTERIAL INFECTIONS**

BACTERIAL INFECTIONS, GRAM-POSITIVE see **GRAM-POSITIVE BACTERIAL INFECTIONS**

BACTERIAL INTERFERENCE see **ANTIBIOSIS**

BACTERIAL LUMINESCENCE see **LUMINESCENCE, BACTERIAL**

BACTERIAL OUTER MEMBRANE PROTEINS

Phase-variable outer membrane proteins in Escherichia coli. Owen P, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):63–76 (70 ref.)

The outer surface protein A (OspA) of Borrelia burgdorferi: a vaccine candidate and bioactive mediator. Kramer MD, et al. **Infection** 1996 Mar–Apr;24(2):190–4 (35 ref.)

Experimental immunization against Lyme borreliosis with recombinant Osp proteins: an overview. Sadziene A, et al. **Infection** 1996 Mar–Apr;24(2):195–202 (89 ref.)

Lyme disease vaccine. Wormser GP. **Infection** 1996 Mar–Apr;24(2):203–7 (54 ref.)

The envelope in bacterial physiology and antibiotic action. Part I. Proceedings of a symposium. Verona, Italy, September 10–14, 1995. To the memory of Professor Giuseppe Satta. **Microb Drug Resist** 1996 Spring;2(1):1–161

The envelope in bacterial physiology and antibiotic action. Part II. Proceedings of a symposium. Verona, Italy, September 10–14, 1995. **Microb Drug Resist** 1996 Summer; 2(2):163–286

Expression, secretion and antigenic variation of bacterial S-layer proteins. Boot HJ, et al. **Mol Microbiol** 1996 Sep; 21(6):1117–23 (49 ref.)

[Assay of specific anti-Chlamydia pneumoniae antibodies by ELISA method. 1. Evaluation of ELISA kit using outer membrane complex] Kishimoto T, et al. **Kansenshogaku Zasshi** 1996 Aug;70(8):821–9 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Risk factors for invasive Haemophilus influenzae disease among children 2–16 years of age in the vaccine era, Switzerland 1991–1993. The Swiss H. Influenzae Study Group. Mühlemann K, et al. **Int J Epidemiol** 1996 Dec; 25(6):1280–5

Delivery of the Pertactin/P.69 polypeptide of Bordetella pertussis using an attenuated Salmonella typhimurium vaccine strain: expression levels and immune response. Anderson R, et al. **Vaccine** 1996 Oct;14(14):1384–90

ANALYSIS

Susceptibility of Pseudomonas aeruginosa isolates to ceftazidime is unrelated to the expression of the outer membrane protein OprC. Pérez FJ, et al. **Chemotherapy** 1997 Jan–Feb;43(1):27–30

PCR-restriction fragment length polymorphism analysis of the ospC gene for detection of mixed culture and for epidemiological typing of Borrelia burgdorferi sensu stricto. Masuzawa T, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):60–3

Specific photoaffinity labelling of a ferripyoverdin outer membrane receptor of Pseudomonas aeruginosa. Ocaktan A, et al. **FEBS Lett** 1996 Nov 4;396(2–3):243–7

Role of two outer membrane antigens in the induction of protective immunity against Francisella tularensis strains of different virulence. Fulop M, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):245–7

Outer membrane characteristics of Campylobacter jejuni grown in chickens. Chart H, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):469–72

Identification and localization of the TgI protein, which is required for Myxococcus xanthus social motility. Rodriguez-Soto JP, et al. **J Bacteriol** 1997 Jul; 179(13):4372–81

M proteins of group C streptococci isolated from patients with acute pharyngitis. Bisno AL, et al. **J Clin Microbiol** 1996 Oct;34(10):2511–5

Intra-specific diversity within Pasteurella trehalosi based on variation of capsular polysaccharide, lipopolysaccharide and outer-membrane proteins. Davies RL, et al. **Microbiology** 1996 Mar;142 (Pt 3):551–60

The outer membrane of lipid A-deficient Escherichia coli mutant LH530 has reduced levels of OmpF and leaks periplasmic enzymes. Nurminen M, et al. **Microbiology** 1997 May;143 (Pt 5):1533–7

Limited surface exposure of Borrelia burgdorferi outer surface lipoproteins. Cox DL, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7973–8

Outer membrane vesicle vaccines made from short–chain lipopolysaccharide mutants of serogroup B Neisseria meningitidis: effect of the carbohydrate chain length on the immune response. Andersen SR, et al. **Vaccine** 1997 Aug;15(11):1225–34

Outer membrane proteins of bovine Pasteurella multocida serogroup A isolates. Dabo SM, et al. **Vet Microbiol** 1997 Feb;54(2):167–83

Surface vesicles: a possible function in commensal relations of Bacteroides fragilis. Domingues RM, et al.
Zentralbl Bakteriol 1997 Apr;285(4):509–17

Apodemus sp. rodents, reservoir hosts for Borrelia afzelii in an endemic area in Switzerland. Hu CM, et al.
Zentralbl Bakteriol 1997 Apr;285(4):558–64

BIOSYNTHESIS

Role of the histidine kinase, EnvZ, in the production of outer membrane proteins in the symbiotic–pathogenic bacterium Xenorhabdus nematophilus. Forst SA, et al.
Appl Environ Microbiol 1997 Mar;63(3):962–8

Cloning and expression of the major porin protein gene opcP of Burkholderia (formerly Pseudomonas) cepacia in Escherichia coli. Tsujimoto H, et al. **Gene** 1997 Feb 20; 186(1):113–8

Coexpression of the B subunit of Shiga toxin 1 and EaeA from enterohemorrhagic Escherichia coli in Vibrio cholerae vaccine strains. Butterton JR, et al.
Infect Immun 1997 Jun;65(6):2127–35

Down regulation of intimin expression during attaching and effacing enteropathogenic Escherichia coli adhesion. Knutton S, et al. **Infect Immun** 1997 May;65(5):1644–52

Unbalanced membrane phospholipid compositions affect transcriptional expression of certain regulatory genes in Escherichia coli. Inoue K, et al. **J Bacteriol** 1997 May; 179(9):2872–8

Mycoplasma hyorhinis vlp gene transcription: critical role in phase variation and expression of surface lipoproteins. Citti C, et al. **Mol Microbiol** 1995 Nov;18(4):649–60

From acids to osmZ: multiple factors influence synthesis of the OmpF and OmpC porins in Escherichia coli. Pratt LA, et al. **Mol Microbiol** 1996 Jun;20(5):911–7 (28 ref.)

The RsmA– mutants of Erwinia carotovora subsp. carotovora strain Ecc71 overexpress hrpNEcc and elicit a hypersensitive reaction–like response in tobacco leaves. Cui Y, et al. **Mol Plant Microbe Interact** 1996 Sep; 9(7):565–73

Immunization with meningococcal class 1 outer membrane protein produced in Bacillus subtilis and reconstituted in the presence of Zwittergent or Triton X–100. Idänpään–Heikkilä I, et al. **Vaccine** 1996 Jun;14(9):886–91

Oral immunization with recombinant Salmonella typhimurium expressing surface protein antigen A (SpaA) of Streptococcus sobrinus: effects of the Salmonella virulence plasmid on the induction of protective and sustained humoral responses in rats. Redman TK, et al. **Vaccine** 1996 Jun;14(9):868–78

Iron repressible outer membrane proteins of Moraxella bovis and demonstration of siderophore–like activity. Fenwick B, et al. **Vet Microbiol** 1996 Feb;48(3–4):315–24

Virulence of feline Chlamydia psittaci in mice is not a function of the major outer membrane protein (MOMP). May SW, et al. **Vet Microbiol** 1996 Dec;53(3–4):355–68

Genetic and immunological analyses of a 38 kDa surface–exposed lipoprotein of Pasteurella haemolytica A1. Pandher K, et al. **Vet Microbiol** 1996 Aug;51(3–4):331–41

BLOOD

Selection of Opa+ Neisseria gonorrhoeae by limited availability of normal human serum. Bos MP, et al.
Infect Immun 1997 Feb;65(2):645–50

Antigens for serological diagnosis of ovine footrot. Whittington RJ, et al. **Vet Microbiol** 1997 Mar; 54(3–4):255–74

CEREBROSPINAL FLUID

Simultaneous expression of Borrelia OspA and OspC and IgM response in cerebrospinal fluid in early neurologic Lyme disease. Schutzer SE, et al. **J Clin Invest** 1997 Aug 15;100(4):763–7

CHEMISTRY

Analysis of the lipidated recombinant outer surface protein A from Borrelia burgdorferi by mass spectrometry. Bouchon B, et al. **Anal Biochem** 1997 Mar 1;246(1):52–61

Structure–function studies with Neisseria gonorrhoeae Opa outer membrane proteins expressed in Escherichia coli. Simon D, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:253–4

Outer membrane proteins of Methylococcus capsulatus (Bath). Fjellbirkeland A, et al. **Arch Microbiol** 1997 Aug; 168(2):128–35

Purification and characterization of the periplasmic domain of EnvZ osmosensor in Escherichia coli. Egger LA, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):68–72

Selective excitation of tryptophans in OmpF: a fluorescence emission study. Pattnaik BR, et al.
Biochem Mol Biol Int 1997 Jun;42(1):173–81

The adherence of Streptococcus mutans and streptococcal antigen I/II to a high molecular weight human salivary glycoprotein. Tulloch B, et al. **Biochem Soc Trans** 1996 May;24(2):257S

The central domain of colicin N possesses the receptor recognition site but not the binding affinity of the whole toxin. Evans LJ, et al. **Biochemistry** 1996 Dec 3; 35(48):15143–8

Folding intermediates of a beta–barrel membrane protein. Kinetic evidence for a multi–step membrane insertion mechanism. Kleinschmidt JH, et al. **Biochemistry** 1996 Oct 8;35(40):12993–3000

Computer simulations of the OmpF porin from the outer membrane of Escherichia coli. Watanabe M, et al.
Biophys J 1997 May;72(5):2094–102

Physicochemical properties of PM–factor, a surface–active agent produced by Pseudomonas marginalis. Burd G, et al. **Can J Microbiol** 1996 Mar;42(3):243–51

Isolation and characterization of an amino sugar–rich glycopeptide from the surface layer glycoprotein of Thermoanaerobacterium thermosaccharolyticum E207–71. Altman E, et al. **Carbohydr Res** 1996 Dec 13;295:245–53

The oligomeric structure of nucleoid protein H–NS is necessary for recognition of intrinsically curved DNA and for DNA bending. Spurio R, et al. **EMBO J** 1997 Apr 1;16(7):1795–805

Liposome solubilization and membrane protein reconstitution using Chaps and Chapso. Cladera J, et al.
Eur J Biochem 1997 Feb 1;243(3):798–804

Stabilising and destabilising modifications of cysteines in the E. coli outer membrane porin protein OmpC. Gokce I, et al. **FEBS Lett** 1997 Jul 14;411(2–3):201–5

Demonstration of dimer formation of the cytoplasmic domain of a transmembrane osmosensor protein, EnvZ, of Escherichia coli using Ni–histidine tag affinity chromatography. Hidaka Y, et al. **FEBS Lett** 1997 Jan 3; 400(2):238–42

A hairpin–loop conformation in tandem repeat sequence of the ice nucleation protein revealed by NMR spectroscopy. Tsuda S, et al. **FEBS Lett** 1997 Jun 9;409(2):227–31

Bacterial surface structures––an update. Moran AP.
FEMS Immunol Med Microbiol 1996 Dec 1;16(2):61–2

Specific in vivo thiol–labeling of the FhuA outer membrane ferrichrome transport protein of Escherichia coli K–12: evidence for a disulfide bridge in the predicted gating loop. Bös C, et al. **FEMS Microbiol Lett** 1997 Aug 15; 153(2):311–9

The locus of enterocyte effacement pathogenicity island of enteropathogenic Escherichia coli encodes secretion functions and remnants of transposons at its extreme right end. Donnenberg MS, et al. **Gene** 1997 Jan 3;184(1):107–14

Type–4 pilus–structure: outside to inside and top to bottom––a minireview. Forest KT, et al. **Gene** 1997 Jun 11;192(1):165–9 (13 ref.)

The type–4 pilus is the major virulence–associated adhesin of Pseudomonas aeruginosa––a review. Hahn HP. **Gene** 1997 Jun 11;192(1):99–108 (64 ref.)

Domains within the Vibrio cholerae toxin coregulated pilin subunit that mediate bacterial colonization. Sun D, et al. **Gene** 1997 Jun 11;192(1):79–85

Post–translational modifications of meningococcal pili. Identification of common substituents: glycans and alpha–glycerophosphate––a review. Virji M. **Gene** 1997 Jun 11;192(1):141–7 (42 ref.)

Outer membrane protein D15 is conserved among Haemophilus influenzae species and may represent a universal protective antigen against invasive disease. Loosmore SM, et al. **Infect Immun** 1997 Sep;65(9):3701–7

Purification and partial characterization of the OmpA family of proteins of Pasteurella haemolytica. Mahasreshti PJ, et al. **Infect Immun** 1997 Jan;65(1):211–8

gamma–Glutamyltransferase from the outer cell envelope of Treponema denticola ATCC 35405. Mäkinen PL, et al. **Infect Immun** 1997 Feb;65(2):685–91

Identification of D motif epitopes in Staphylococcus aureus fibronectin–binding protein for the production of antibody inhibitors of fibronectin binding. Sun Q, et al.
Infect Immun 1997 Feb;65(2):537–43

NMR solution structure of the receptor binding domain of Pseudomonas aeruginosa pilin strain P1. Identification of a beta–turn. Campbell AP, et al.
Int J Pept Protein Res 1996 Dec;48(6):539–52

Sequence analysis and recombinant expression of a 28–kilodalton Treponema pallidum subsp. pallidum rare outer membrane protein (Tromp2). Champion CI, et al. **J Bacteriol** 1997 Feb;179(4):1230–8

The major outer membrane protein of Haemophilus ducreyi consists of two OmpA homologs. Klesney–Tait J, et al. **J Bacteriol** 1997 Mar;179(5):1764–73

Topology of the outer membrane phospholipase A of Salmonella typhimurium. Merck KB, et al. **J Bacteriol** 1997 Jun;179(11):3443–50

Secondary structure of the outer membrane proteins OmpA of Escherichia coli and OprF of Pseudomonas aeruginosa. Sugawara E, et al. **J Bacteriol** 1996 Oct;178(20):6067–9

Lethality of the covalent linkage between mislocalized major outer membrane lipoprotein and the peptidoglycan of Escherichia coli. Yakushi T, et al. **J Bacteriol** 1997 May; 179(9):2857–62

Structural and functional characterization of a recombinant PorB class 2 protein from Neisseria meningitidis. Conformational stability and porin activity. Minetti CASA, et al. **J Biol Chem** 1997 Apr 18;272(16):10710–20

Short hydrophobic segments in the mature domain of ProOmpA determine its stepwise movement during translocation across the cytoplasmic membrane of Escherichia coli. Sato K, et al. **J Biol Chem** 1997 Feb 28; 272(9):5880–6

An N–linked high–mannose type oligosaccharide, expressed at the major outer membrane protein of Chlamydia trachomatis, mediates attachment and infectivity of the microorganism to HeLa cells [see comments] Kuo C, et al. **J Clin Invest** 1996 Dec 15;98(12):2813–8. Comment in: J Clin Invest 1996 Dec 15;98(12):2659–60.

Two–dimensional paracrystalline glycoprotein S–layers as a novel matrix for the immobilization of human IgG and their use as microparticles in immunoassays. Küpcü S, et al.
J Immunol Methods 1996 Sep 13;196(1):73–84

1/f–Noise of open bacterial porin channels. Wohnsland F, et al. **J Membr Biol** 1997 Jul 1;158(1):77–85

Interaction of the receptor binding domains of Pseudomonas aeruginosa pili strains PAK, PAO, KB7 and P1 to a cross–reactive antibody and receptor analog: implications for synthetic vaccine design. Campbell AP, et al.
J Mol Biol 1997 Mar 28;267(2):382–402

Structural relationships in the OmpR family of winged–helix transcription factors. Martínez–Hackert E, et al.
J Mol Biol 1997 Jun 13;269(3):301–12 (65 ref.)

N–terminal amino acid sequences of the major outer membrane proteins from a Neisseria meningitidis group B strain isolated in Brazil. De Simone SG, et al.
Mem Inst Oswaldo Cruz 1996 Jan–Feb;91(1):111–6

Characterization, expression and envelope association of a Chlamydia trachomatis 28 kDa protein. Schmiel DH, et al. **Microb Pathog** 1995 Oct;19(4):227–36

Evidence for in vivo but not in vitro expression of a Borrelia burgdorferi outer surface protein F (OspF) homologue. Akins DR, et al. **Mol Microbiol** 1995 Nov;18(3):507–20

The C–terminal domain of the secretin PulD contains the binding site for its cognate chaperone, PulS, and confers PulS dependence on pIVf1 function. Daefler S, et al.
Mol Microbiol 1997 May;24(3):465–75

Amino–terminal maturation of the Bordetella pertussis filamentous haemagglutinin. Jacob–Dubuisson F, et al.
Mol Microbiol 1996 Jan;19(1):65–78

Molecular characterization of hybrid Tbp2 proteins from Neisseria meningitidis. Legrain M, et al. **Mol Microbiol** 1996 Jan;19(1):159–69

A circular permutation event in the evolution of the SLH domain? [letter] Lupas A. **Mol Microbiol** 1996 May; 20(4):897–8

Two–dimensional structure of the Opc invasin from Neisseria meningitidis. Merker P, et al. **Mol Microbiol** 1997 Jan; 23(2):281–93

Structure of the DNA–binding domain of the OmpR family of response regulators [letter] Mizuno T, et al.
Mol Microbiol 1997 May;24(3):665–7

Ligand–induced conformational change in the ferrichrome–iron receptor of Escherichia coli K–12. Moeck GS, et al. **Mol Microbiol** 1996 Nov;22(3):459–71

Escherichia coli positive regulator OmpR has a large loop structure at the putative RNA polymerase interaction site [letter] Kondo H, et al. **Nat Struct Biol** 1997 Jan;4(1):28–31

Crystal structure of Lyme disease antigen outer surface protein A complexed with an Fab. Li H, et al.
Proc Natl Acad Sci U S A 1997 Apr 15;94(8):3584–9

Amphipols: polymers that keep membrane proteins soluble in aqueous solutions. Tribet C, et al.
Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15047–50

Crystallization, X–ray studies, and site–directed cysteine mutagenesis of the DNA–binding domain of OmpR. Martínez–Hackert E, et al. **Protein Sci** 1996 Jul; 5(7):1429–33

Characterization of a 30–kDa Borrelia burgdorferi substrate–binding protein homologue. Das S, et al.
Res Microbiol 1996 Nov–Dec;147(9):739–51

The DNA–binding domain of OmpR: crystal structures of a winged helix transcription factor. Martínez–Hackert E, et al. **Structure** 1997 Jan 15;5(1):109–24

Recombinant Opc meningococcal protein, folded in vitro, elicits bactericidal antibodies after immunization. Musacchio A, et al. **Vaccine** 1997 Apr–May;15(6–7):751–8

Effect of lipid modification on the physicochemical, structural, antigenic and immunoprotective properties of Haemophilus influenzae outer membrane protein P6. Yang YP, et al. **Vaccine** 1997 Jun;15(9):976–87

Characterization of an outer membrane protein of Pasteurella multocida belonging to the OmpA family. Marandi M, et al. **Vet Microbiol** 1996 Dec;53(3–4):303–14

Serological and biochemical properties of the major outer membrane protein within strains of the genus Actinobacillus. Hartmann L, et al. **Zentralbl Bakteriol** 1996 Jul;284(2–3):255–62

[The major outer–membrane protein of Chlamydia: structure and functions] De Sa C. **Vet Res** 1996;27(4–5):317–31 (76 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSTIC USE

[The role of the outer–membrane antigens of Yersinia pseudotuberculosis in the pathogenesis and diagnosis of pseudotuberculosis] Kuliashova LB, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 Jan–Feb;(1):14–8 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Mechanism of lantibiotic-induced pore-formation. Moll GN, et al. **Antonie Van Leeuwenhoek** 1996 Feb;69(2):185-91 (36 ref.)

Outer membrane proteins and elastase of Pseudomonas aeruginosa after the postantibiotic effect induced by amikacin. Hoštacká A, et al. **Chemotherapy** 1997 Mar-Apr; 43(2):118-22

Postantibiotic effect of norfloxacin and its influence on profiles of outer membrane proteins of Pseudomonas aeruginosa. Hoštacká A, et al. **Pharmazie** 1997 Mar; 52(3):238-9

GENETICS

Specific identification of Escherichia coli O157:H7 using a multiplex PCR assay. Gannon VP, et al. **Adv Exp Med Biol** 1997;412:81-2

A novel regulatory mechanism for a novel phase-variable outer membrane protein of Escherichia coli. Henderson IR, et al. **Adv Exp Med Biol** 1997;412:349-55

Interplay between mycoplasma surface proteins, airway cells, and the protean manifestations of mycoplasma-mediated human infections. Baseman JB, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S137-44 (45 ref.)

Conservation of the multidrug resistance efflux gene oprM in Pseudomonas aeruginosa. Bianco N, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):853-6

Imipenem resistance in Klebsiella pneumoniae is associated with the combination of ACT-1, a plasmid-mediated AmpC beta-lactamase, and the foss of an outer membrane protein. Bradford PA, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):563-9

Nucleotide sequence analysis of a gene from Burkholderia (Pseudomonas) cepacia encoding an outer membrane lipoprotein involved in multiple antibiotic resistance. Burns JL, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):307-13

Use of the pre-pro part of Staphylococcus hyicus lipase as a carrier for secretion of Escherichia coli outer membrane protein A (OmpA) prevents proteolytic degradation of OmpA by cell-associated protease(s) in two different gram-positive bacteria. Meens J, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2814-20

A deletion in the sapA homologue cluster is responsible for the loss of the S-layer in Campylobacter fetus strain TK. Fujita M, et al. **Arch Microbiol** 1997 Apr;167(4):196-201

The characterization of the nv-gvpACNOFGH gene cluster involved in gas vesicle formation in Natronobacterium vacuolatum. Mayr A, et al. **Arch Microbiol** 1997 Jul; 168(1):24-32

Cloning and expression of FomA, the major outer-membrane protein gene from Fusobacterium nucleatum T18. Haake SK, et al. **Arch Oral Biol** 1997 Jan;42(1):19-24

PCR-restriction fragment length polymorphism analysis of the ospC gene for detection of mixed culture and for epidemiological typing of Borrelia burgdorferi sensu stricto. Masuzawa T, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):60-3

Sequence heterogeneity of the major antigenic protein 1 genes from Cowdria ruminantium isolates from different geographical areas. Reddy GR, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):417-22

Genetic analysis of phoP and ompR from Yersinia enterocolitica, Yersinia pseudotuberculosis and Yersinia pestis. Wren BW, et al. **Contrib Microbiol Immunol** 1995; 13:318-20

Protective immunization with plasmid DNA containing the outer surface lipoprotein A gene of Borrelia burgdorferi is independent of an eukaryotic promoter. Simon MM, et al. **Eur J Immunol** 1996 Dec;26(12):2831-40

Characterization of the eaeA gene from rabbit enteropathogenic Escherichia coli strain RDEC-1 and comparison to other eaeA genes from bacteria that cause attaching-effacing lesions. Agin TS, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2-3):249-58

Cloning and characterization of the eae gene from a dog attaching and effacing Escherichia coli strain 4221. An H, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):239-45

Molecular and immunological characterization of the major outer membrane proteins of Brucella. Cloeckaert A, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):1-8 (44 ref.)

Antigen 43, a phase-variable bipartite outer membrane protein, determines colony morphology and autoaggregation in Escherichia coli K-12. Henderson IR, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):115-20

Polymerase chain reaction and an outer membrane protein gene probe for the detection of Porphyromonas gingivalis. Hiratsuka K, et al. **FEMS Microbiol Lett** 1996 May 1; 138(2-3):167-72

Identification of a multigene family coding for the 90 kDa proteins of the ovine abortion subtype of Chlamydia psittaci. Longbottom D, et al. **FEMS Microbiol Lett** 1996 Sep 1;142(2-3):277-81

Homogeneity of Borrelia japonica and heterogeneity of Borrelia afzelii and 'Borrelia tanukii' isolated in Japan, determined from ospC gene sequences. Masuzawa T, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):287-93

Characterization of Borrelia garinii isolated from Lyme disease patients in Hokkaido, Japan, by sequence analysis of OspA and OspB genes. Wang J, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):371-5

Molecular and genetic analysis of multiple changes in the levels of production of virulence factors in a subcultured variant of Streptococcus mutans. Yamashita Y, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):81-7

ACO1 expression in Saccharomyces cerevisiae is regulated by the HAP complex. Haviernik P, et al. **Folia Microbiol (Praha)** 1996;41(1):96-8

A putative ABC-transport operon of Mycobacterium smegmatis. Barsom EK, et al. **Gene** 1997 Jan 31; 185(1):127-32

Molecular genetic analysis of type-4 pilus biogenesis and twitching motility using Pseudomonas aeruginosa as a model system--a review. Darzins A, et al. **Gene** 1997 Jun 11;192(1):109-15 (56 ref.)

Sequence analysis of the omp2 region of Chlamydia psittaci strain GPIC: structural and functional implications. Hsia RC, et al. **Gene** 1996 Oct 17;176(1-2):155-62

Homologs of Escherichia coli recJ, gltX and of a putative 'early' gene of avian Chlamydia psittaci are located upstream of the 'late' omp2 locus of Chlamydia psittaci strain guinea pig inclusion conjunctivitis. Hsia RC, et al. **Gene** 1996 Oct 17;176(1-2):163-9

Translocation failure in a type-4 pilin operon: rfb and tcpT mutants in Vibrio cholerae. Iredell JR, et al. **Gene** 1997 Jun 11;192(1):71-7

The tcp gene cluster of Vibrio cholerae. Manning PA. **Gene** 1997 Jun 11;192(1):63-70

Isolation of a mRNA instability sequence that is cis-dominant to the ompA stability determinant in Escherichia coli. Meyer BJ, et al. **Gene** 1996 Nov 14;179(2):263-70

An Aeromonas salmonicida gene required for the establishment of infection in rainbow trout (Oncorhynchus mykiss). Noonan B, et al. **Gene** 1996 Oct 10;175(1-2):127-31

Cloning and expression of the major porin protein gene opcP of Burkholderia (formerly Pseudomonas) cepacia in Escherichia coli. Tsujimoto H, et al. **Gene** 1997 Feb 20; 186(1):113-8

Type-4 pili of Kingella denitrificans. Weir S, et al. **Gene** 1997 Jun 11;192(1):171-6

Cloning, sequencing and expression of an Eikenella corrodens gene encoding a component protein of the lectin-like adhesin complex. Yumoto H, et al. **Gene** 1996 Dec 12; 183(1-2):115-21

The complete nucleotide sequence of the Bacillus licheniformis NM105 S-layer-encoding gene. Zhu X, et al. **Gene** 1996 Sep 16;173(2):189-94

Site-specific codon bias in bacteria. Smith JM, et al. **Genetics** 1996 Mar;142(3):1037-43

Characterization of two virulence proteins secreted by rabbit enteropathogenic Escherichia coli, EspA and EspB, whose maximal expression is sensitive to host body temperature. Abe A, et al. **Infect Immun** 1997 Sep;65(9):3547-55

Identification of a family of intimins common to Escherichia coli causing attaching-effacing lesions in rabbits, humans, and swine. Agin TS, et al. **Infect Immun** 1997 Jan; 65(1):320-6

Characterization of a class II pilin expression locus from Neisseria meningitidis: evidence for increased diversity among pilin genes in pathogenic Neisseria species. Aho EL, et al. **Infect Immun** 1997 Jul;65(7):2613-20

Genetic organization of the yersiniabactin biosynthetic region and construction of avirulent mutants in Yersinia pestis. Bearden SW, et al. **Infect Immun** 1997 May;65(5):1659-68

Molecular variation in the major outer membrane protein P5 gene of nonencapsulated Haemophilus influenzae during chronic infections. Duim B, et al. **Infect Immun** 1997 Apr; 65(4):1351-6

Bile affects production of virulence factors and motility of Vibrio cholerae. Gupta S, et al. **Infect Immun** 1997 Mar; 65(3):1131-4

Cell-dependent expression of Borrelia burgdorferi lipoproteins in vitro. Indest KJ, et al. **Infect Immun** 1997 Apr;65(4):1165-71

Molecular characterization of a 6.6-kilodalton Borrelia burgdorferi outer membrane-associated lipoprotein (lp6.6) which appears to be downregulated during mammalian infection. Lahdenne P, et al. **Infect Immun** 1997 Feb; 65(2):412-21

Fibronectin-binding protein of Streptococcus equi subsp. zooepidemicus. Lindmark H, et al. **Infect Immun** 1996 Oct; 64(10):3993-9

Identification of a frameshift mutation resulting in premature termination and loss of cell wall anchoring of the PAc antigen of Streptococcus mutans GS-5. Murakami Y, et al. **Infect Immun** 1997 Feb;65(2):794-7

Role of the charged tail in localization of a surface protein antigen of Streptococcus mutans. Murakami Y, et al. **Infect Immun** 1997 Apr;65(4):1531-5

Molecular characterization of a heme-binding protein of Bacteroides fragilis BE1. Otto BR, et al. **Infect Immun** 1996 Oct;64(10):4345-50

Cloning and characterization of the gene encoding the OmpU outer membrane protein of Vibrio cholerae. Sperandio V, et al. **Infect Immun** 1996 Dec;64(12):5406-9

Identification of four complete type 4 pilin genes in a single Kingella denitrificans genome. Weir S, et al. **Infect Immun** 1996 Dec;64(12):4993-9

Putative channel components for the fast-rotating sodium-driven flagellar motor of a marine bacterium. Asai Y, et al. **J Bacteriol** 1997 Aug;179(16):5104-10

Effects of sigmaS and the transcriptional activator AppY on induction of the Escherichia coli hya and cbdAB-appA operons in response to carbon and phosphate starvation. Atlung T, et al. **J Bacteriol** 1997 Apr;179(7):2141-6

Linker mutagenesis of the Caulobacter crescentus S-layer protein: toward a definition of an N-terminal anchoring region and a C-terminal secretion signal and the potential for heterologous protein secretion. Bingle WH, et al. **J Bacteriol** 1997 Feb;179(3):601-11

The Lactobacillus acidophilus S-layer protein gene expression site comprises two consensus promoter sequences, one of which directs transcription of stable mRNA. Boot HJ, et al. **J Bacteriol** 1996 Sep; 178(18):5388-94

Aerobic regulation of isocitrate dehydrogenase gene (icd) expression in Escherichia coli by the arcA and fnr gene products. Chao G, et al. **J Bacteriol** 1997 Jul; 179(13):4299-304

Mutagenesis of the P2 promoter of the major outer membrane protein gene of Chlamydia trachomatis. Douglas AL, et al. **J Bacteriol** 1996 Oct;178(19):5573-8

Function of conserved histidine-243 in phosphatase activity of EnvZ, the sensor for porin osmoregulation in Escherichia coli. Hsing W, et al. **J Bacteriol** 1997 Jun; 179(11):3729-35

In vivo expression of the Lactobacillus brevis S-layer gene. Kahala M, et al. **J Bacteriol** 1997 Jan;179(1):284-6

Isolation and characterization of a hemin-regulated gene, hemR, from Porphyromonas gingivalis. Karunakaran T, et al. **J Bacteriol** 1997 Mar;179(6):1898-908

The major outer membrane protein of Haemophilus ducreyi consists of two OmpA homologs. Klesney-Tait J, et al. **J Bacteriol** 1997 Mar;179(5):1764-73

The Bradyrhizobium japonicum fegA gene encodes an iron-regulated outer membrane protein with similarity to hydroxamate-type siderophore receptors [published erratum appears in J Bacteriol 1997 Aug;179(16):5246] LeVier K, et al. **J Bacteriol** 1996 Dec;178(24):7265-75

Molecular and evolutionary analyses of a variable series of genes in Borrelia burgdorferi that are related to ospE and ospF, constitute a gene family, and share a common upstream homology box. Marconi RT, et al. **J Bacteriol** 1996 Oct;178(19):5615-26

Mutational analysis of the linker region of EnvZ, an osmosensor in Escherichia coli. Park H, et al. **J Bacteriol** 1997 Jul;179(13):4382-90

Aerobic regulation of the sucABCD genes of Escherichia coli, which encode alpha-ketoglutarate dehydrogenase and succinyl coenzyme A synthetase: roles of ArcA, Fnr, and the upstream sdhCDAB promoter. Park SJ, et al. **J Bacteriol** 1997 Jul;179(13):4138-42

BfpB, an outer membrane lipoprotein required for the biogenesis of bundle-forming pili in enteropathogenic Escherichia coli. Ramer SW, et al. **J Bacteriol** 1996 Nov; 178(22):6555-63

Characterization of four outer membrane proteins that play a role in utilization of starch by Bacteroides thetaiotaomicron. Reeves AR, et al. **J Bacteriol** 1997 Feb; 179(3):643-9

Inversion of Moraxella lacunata type 4 pilin gene sequences by a Neisseria gonorrhoeae site-specific recombinase. Rozsa FW, et al. **J Bacteriol** 1997 Apr;179(7):2382-8

Molecular characterization and cellular localization of TpLRR, a processed leucine-rich repeat protein of Treponema pallidum, the syphilis spirochete. Shevchenko DV, et al. **J Bacteriol** 1997 May;179(10):3188-95

Characterization of cp18, a naturally truncated member of the cp32 family of Borrelia burgdorferi plasmids. Stevenson B, et al. **J Bacteriol** 1997 Jul;179(13):4285-91

Identification of a new porin, RafY, encoded by raffinose plasmid pRSD2 of Escherichia coli. Ulmke C, et al. **J Bacteriol** 1997 Sep;179(18):5783-8

Temporal pattern of Borrelia burgdorferi p21 expression in ticks and the mammalian host. Das S, et al. **J Clin Invest** 1997 Mar 1,99(5):987-95

Molecular and mutation trends analyses of omp1 alleles for serovar E of Chlamydia trachomatis. Implications for the immunopathogenesis of disease. Dean D, et al. **J Clin Invest** 1997 Feb 1;99(3):475-83

Rapid and specific detection of F17-related pilin and adhesin genes in diarrheic and septicemic Escherichia coli strains by multiplex PCR. Bertin Y, et al. **J Clin Microbiol** 1996 Dec;34(12):2921-8

Direct detection and identification of Pseudomonas aeruginosa in clinical samples such as skin biopsy specimens and expectorations by multiplex PCR based on two outer membrane lipoprotein genes, oprI and oprL. De Vos D, et al. **J Clin Microbiol** 1997 Jun;35(6):1295-9

Evidence for numerous omp1 alleles of porcine Chlamydia trachomatis and novel chlamydial species obtained by PCR. Kaltenböck B, et al. **J Clin Microbiol** 1997 Jul; 35(7):1835-41

Culturing selects for specific genotypes of Borrelia burgdorferi in an enzootic cycle in Colorado. Norris DE, et al. **J Clin Microbiol** 1997 Sep;35(9):2359-64

Differentiation of spotted fever group rickettsiae by sequencing and analysis of restriction fragment length polymorphism of PCR-amplified DNA of the gene encoding the protein rOmpA. Roux V, et al. **J Clin Microbiol** 1996 Sep;34(9):2058-65

Genetic and phenotypic analysis of Escherichia coli with enteropathogenic characteristics isolated from Seattle children. Bokete TN, et al. **J Infect Dis** 1997 Jun;

175(6):1382–9

Immunization with outer surface protein (Osp) A, but not OspC, provides cross-protection of mice challenged with North American isolates of Borrelia burgdorferi. Probert WS, et al. **J Infect Dis** 1997 Feb;175(2):400–5

Identification of the bases in the ompF regulatory region, which interact with the transcription factor OmpR. Huang KJ, et al. **J Mol Biol** 1996 Oct 11;262(5):615–28

Systematic mutational analysis revealing the functional domain organization of Escherichia coli nucleoid protein H-NS. Ueguchi C, et al. **J Mol Biol** 1996 Oct 25; 263(2):149–62

Relatedness and phylogeny within the family of periplasmic chaperones involved in the assembly of pili or capsule-like structures of gram-negative bacteria. Bonci A, et al. **J Mol Evol** 1997 Mar;44(3):299–309

Proximal regions of the olfactory marker protein gene promoter direct olfactory neuron-specific expression in transgenic mice. Walters E, et al. **J Neurosci Res** 1996 Jan 15;43(2):146–60

Genetic diversity of the genes encoding the outer membrane lipoprotein (omlA) of Actinobacillus pleuropneumoniae. Osaki M, et al. **J Vet Med Sci** 1997 Mar;59(3):213–5

The lppC gene of Streptococcus equisimilis encodes a lipoprotein that is homologous to the e (P4) outer membrane protein from Haemophilus influenzae. Gase K, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):63–73

Diversity of OspA and OspC among cerebrospinal fluid isolates of Borrelia burgdorferi sensu lato from patients with neuroborreliosis in Germany. Wilske B, et al. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):195–201

Bacteriophage lambda lysis gene product modified and inserted into Escherichia coli outer membrane: Rz1 lipoprotein. Taylor A, et al. **Microb Drug Resist** 1996 Spring;2(1):147–53 (36 ref.)

Virulence and outer membrane properties of a galU mutant of Klebsiella pneumoniae CG43. Chang HY, et al. **Microb Pathog** 1996 May;20(5):255–61

A search for cholera toxin (CT), toxin coregulated pilus (TCP), the regulatory element ToxR and other virulence factors in non-01/non-0139 Vibrio cholerae. Ghosh C, et al. **Microb Pathog** 1997 Apr;22(4):199–208

Outer membrane protein CD of Branhamella catarrhalis: sequence conservation in strains recovered from the human respiratory tract. Hsiao CB, et al. **Microb Pathog** 1995 Oct; 19(4):215–25

Cloning of the fomA gene, encoding the major outer membrane porin of Fusobacterium nucleatum ATCC10953. Jensen HB, et al. **Microb Pathog** 1996 Nov;21(5):331–42

Cloning and nucleotide sequence analysis of a Brucella abortus gene encoding an 18 kDa immunoreactive protein. Kovach ME, et al. **Microb Pathog** 1997 Apr;22(4):241–6

Characterization, expression and envelope association of a Chlamydia trachomatis 28 kDa protein. Schmiel DH, et al. **Microb Pathog** 1995 Oct;19(4):227–36

The toxin-coregulated pilus is a colonization factor and protective antigen of Vibrio cholerae El Tor. Voss E, et al. **Microb Pathog** 1996 Mar;20(3):141–53

Prevalence and characteristics of enteropathogenic Escherichia coli with the eae gene in diarrhoeic rabbits. Blanco JE, et al. **Microbiol Immunol** 1997;41(2):77–82

Expression and purification of the crystalline surface layer protein of Rickettsia typhi. Hahn MJ, et al. **Microbiol Immunol** 1996;40(3):233–6

Isolation of a new Orientia tsutsugamushi serotype. Seong SY, et al. **Microbiol Immunol** 1997;41(6):437–43

Consensus sequence on the genes encoding the major outer surface proteins (OspA and OspB) of Borrelia garinii isolate. Wang J, et al. **Microbiol Immunol** 1997;41(2):83–91

An iron-regulated outer-membrane protein specific to Bordetella bronchiseptica and homologous to ferric siderophore receptors. Beall B, et al. **Microbiology** 1997 Jan;143 (Pt 1):135–45

Involvement of the gonococcal MtrE protein in the resistance of Neisseria gonorrhoeae to toxic hydrophobic agents. Delahay RM, et al. **Microbiology** 1997 Jul;143 (Pt 7):2127–33

The MtrD protein of Neisseria gonorrhoeae is a member of the resistance/nodulation/division protein family constituting part of an efflux system. Hagman KE, et al. **Microbiology** 1997 Jul;143 (Pt 7):2117–25

Overlapping promoters modulate Fnr- and ArcA-dependent anaerobic transcriptional activation of the focApfl operon in Escherichia coli. Kaiser M, et al. **Microbiology** 1997 Mar; 143 (Pt 3):775–83

Control of Neisseria gonorrhoeae pilin gene expression by environmental factors: involvement of the pilA/pilB regulatory genes. Larribe M, et al. **Microbiology** 1997 May; 143 (Pt 5):1757–64

The nucleoside-specific Tsx channel from the outer membrane of Salmonella typhimurium, Klebsiella pneumoniae and Enterobacter aerogenes: functional characterization and DNA sequence analysis of the tsx genes. Nieweg A, et al. **Microbiology** 1997 Feb;143 (Pt 2):603–15

The Azotobacter vinelandii gene algJ encodes an outer-membrane protein presumably involved in export of alginate. Rehm BH. **Microbiology** 1996 Apr;142 (Pt 4):873–80

Structure and gene-polypeptide relationships of the region encoding glycerol diffusion facilitator (glpF) and glycerol kinase (glpK) of Pseudomonas aeruginosa. Schweizer HP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1287–97

Sequence variability of FrpB, a major iron-regulated outer-membrane protein in the pathogenic neisseriae. van der Ley P, et al. **Microbiology** 1996 Nov;142 (Pt 11):3269–74

Proteins binding to the promoter region of the operon encoding the major outer surface proteins OspA and OspB of Borrelia burgdorferi. Margolis N, et al. **Mol Biol Rep** 1995;21(3):159–64

FLP recombinase/estrogen receptor fusion proteins require the receptor D domain for responsiveness to antagonists, but not agonists. Nichols M, et al. **Mol Endocrinol** 1997 Jun;11(7):950–61

Analysis of the role of the Pseudomonas syringae pv. syringae HrpZ harpin in elicitation of the hypersensitive response in tobacco using functionally non-polar hrpZ deletion mutations, truncated HrpZ fragments, and hrmA mutations. Alfano JR, et al. **Mol Microbiol** 1996 Feb;19(4):715–28

hilA is a novel ompR/toxR family member that activates the expression of Salmonella typhimurium invasion genes. Bajaj V, et al. **Mol Microbiol** 1995 Nov;18(4):715–27

Neisseria gonorrhoeae reverse transcriptase activity does not mediate pilin gene conversion [letter] Barten R, et al. **Mol Microbiol** 1997 May;24(3):667–9

Cloning of the Serratia marcescens hasF gene encoding the Has ABC exporter outer membrane component: a TolC analogue. Binet R, et al. **Mol Microbiol** 1996 Oct; 22(2):265–73

Interchange of the active and silent S-layer protein genes of Lactobacillus acidophilus by inversion of the chromosomal slp segment. Boot HJ, et al. **Mol Microbiol** 1996 Aug;21(4):799–809

Surface proteins and a novel transcription factor regulate the expression of the S-layer gene in Thermus thermophilus HB8. Fernández-Herrero LA, et al. **Mol Microbiol** 1997 Apr;24(1):61–72

Structure, function and immunogenicity of streptococcal antigen I/II polypeptides. Jenkinson HF, et al. **Mol Microbiol** 1997 Jan;23(2):183–90 (33 ref.)

The per regulator of enteropathogenic Escherichia coli [letter; comment] Kaper JB, et al. **Mol Microbiol** 1997 Jan; 23(1):179–81. Comment on: Mol Microbiol 1996 Sep;21(5):963–75.

Characterization of MexE-MexF-OprN, a positively regulated multidrug efflux system of Pseudomonas aeruginosa. Köhler T, et al. **Mol Microbiol** 1997 Jan; 23(2):345–54

Identification and molecular cloning of a gene encoding a fibronectin-binding protein (CadF) from Campylobacter jejuni. Konkel ME, et al. **Mol Microbiol** 1997 Jun; 24(5):953–63

The FinOP repressor system of plasmid R1: analysis of the antisense RNA control of traJ expression and conjugative DNA transfer. Koraimann G, et al. **Mol Microbiol** 1996 Aug;21(4):811–21

Re-examination of the role of the periplasmic domain of EnvZ in sensing of osmolarity signals in Escherichia coli. Leonardo MR, et al. **Mol Microbiol** 1996 Nov;22(3):405–13

Molecular characterization of hpuAB, the haemoglobin-haptoglobin-utilization operon of Neisseria meningitidis. Lewis LA, et al. **Mol Microbiol** 1997 Feb; 23(4):737–49

Molecular characterization of the Bacillus anthracis main S-layer component: evidence that it is the major cell-associated antigen. Mesnage S, et al. **Mol Microbiol** 1997 Mar;23(6):1147–55

Ligand-induced conformational change in the ferrichrome-iron receptor of Escherichia coli K-12. Moeck GS, et al. **Mol Microbiol** 1996 Nov;22(3):459–71

The bundle-forming pili of enteropathogenic Escherichia coli: transcriptional regulation by environmental signals. Puente JL, et al. **Mol Microbiol** 1996 Apr;20(1):87–100

Allelic polymorphism and site-specific recombination in the opc locus of Neisseria meningitidis. Seiler A, et al. **Mol Microbiol** 1996 Feb;19(4):841–56

Opc- and pilus-dependent interactions of meningococci with human endothelial cells: molecular mechanisms and modulation by surface polysaccharides. Virji M, et al. **Mol Microbiol** 1995 Nov;18(4):741–54

Molecular characterization and expression of the Erwinia carotovora hrpNEcc gene, which encodes an elicitor of the hypersensitive reaction. Mukherjee A, et al. **Mol Plant Microbe Interact** 1997 May;10(4):462–71

Nested DNA inversion as a paradigm of programmed gene rearrangement. Dworkin J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):985–90

Display of beta-lactamase on the Escherichia coli surface: outer membrane phenotypes conferred by Lpp'-OmpA'-beta-lactamase fusions. Georgiou G, et al. **Protein Eng** 1996 Feb;9(2):239–47

Pore functioning of outer membrane protein PhoE of Escherichia coli: mutagenesis of the constriction loop L3. Van Gelder P, et al. **Protein Eng** 1997 Jun;10(6):699–706

Diversity among abortion strains of Chlamydia psittaci demonstrated by inclusion morphology, polypeptide profiles and monoclonal antibodies. Vretou E, et al. **Vet Microbiol** 1996 Aug;51(3-4):275–89

Comparison of Chlamydia psittaci from cats with upper respiratory tract disease by polymerase chain reaction analysis of the ompA gene. Sykes JE, et al. **Vet Rec** 1997 Mar 22;140(12):310–3

Identification, molecular cloning, and transcription analysis of the Choristoneura fumiferana nuclear polyhedrosis virus spindle-like protein gene. Liu JJ, et al. **Virology** 1996 Sep 15;223(2):396–400

[Pillin structural gene and bacterial adhesion to cultured cell of Pseudomonas aeruginosa isolated from clinical materials] Nakazawa Y. **Kansenshogaku Zasshi** 1996 Dec; 70(12):1271–8 (Eng. Abstr.) **(Jpn)**

[Probable nature of Rickettsia prowazekii virulence] Emel'ianov VV, et al. **Mol Gen Mikrobiol Virusol** 1996 Apr-Jun;(2):39–40 (Eng. Abstr.) **(Rus)**

[Yersinia outer membrane proteins coded for by the virulence plasmid] Mikerov AN, et al. **Mol Gen Mikrobiol Virusol** 1997;(3):3–10 (131 ref.) (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Study on specific mucosal immunity by intranasal immunization of outer membrane protein P6 of Haemophilus influenzae with cholera toxin B subunit. Hotomi M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 523:150–2

Immunological cross reactivity of eaeA (intimin) from E. coli that cause attaching and effacing lesions in humans and rabbits. Agin TS, et al. **Adv Exp Med Biol** 1997; 412:103–4

Immunoglobulin response to Salmonella enteritidis outer membrane proteins. Use for evaluating infectious status. Maddox CW, et al. **Adv Exp Med Biol** 1997;412:89–92

Bacterial outer membrane protein vaccines. The meningococcal example. Poolman JT. **Adv Exp Med Biol** 1996;397:73–7 (39 ref.)

Characterization of the EaeA protein of attaching and effacing Escherichia coli O45 from pigs using monoclonal antibodies. Zhu C, et al. **Adv Exp Med Biol** 1997;412:105–7

Immunologic response to Bartonella henselae as determined by enzyme immunoassay and Western blot analysis. Litwin CM, et al. **Am J Clin Pathol** 1997 Aug;108(2):202–9

Antibody responses of cattle to outer membrane proteins of Pasteurella multocida A:3. Confer AW, et al. **Am J Vet Res** 1996 Oct;57(10):1453–7

Diagnosis of ovine enzootic abortion, using a competitive ELISA based on monoclonal antibodies against variable segments 1 and 2 of the major outer membrane protein of Chlamydia psittaci serotype 1. Salti-Montesanto V, et al. **Am J Vet Res** 1997 Mar;58(3):228–35

Antibody responses of rats and humans to flagella-less cells and OspA protein of Borrelia burgdorferi. Sadziene A, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:140–50

The induction of polyclonal B-cell activation and interleukin-1 production by the 75-kDa cell surface protein from Porphyromonas gingivalis in mice. Watanabe K, et al. **Arch Oral Biol** 1996 Aug-Sep;41(8-9):725–31

General pharmacology of a Pseudomonas vaccine prepared from outer-membrane fractions of Pseudomonas aeruginosa. Park WJ, et al. **Arzneimittelforschung** 1996 Oct; 46(10):1001–6

Complement-mediated killing of porphyromonas gingivalis 381 by the immunoglobulin G induced by recombinant 40-kDa outer membrane protein. Saito S, et al. **Biochem Mol Med** 1996 Aug;58(2):184–91

Analysis by flow cytometry of surface-exposed epitopes of outer membrane protein F of Pseudomonas aeruginosa. Hughes EE, et al. **Can J Microbiol** 1996 Aug;42(8):859–62

Serum antibody response to outer membrane proteins of Moraxella (Branhamella) catarrhalis in patients with bronchopulmonary infection. Christensen JJ, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):717–21

Antigenic diversity of meningococcal outer membrane protein PorA has implications for epidemiological analysis and vaccine design. Feavers IM, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):444–50

Monoclonal antibodies to surface-exposes proteins of Mycoplasma mycoides subsp. mycoides (small-colony strain), which causes contagious bovine pleuropneumonia. Kiarie MN, et al. **Clin Diagn Lab Immunol** 1996 Nov; 3(6):746–52

Vaccine-induced IgG antibodies to the linear epitope on the PorB outer membrane protein promote opsonophagocytosis of Neisseria meningitidis by human neutrophils. Delvig AA, et al. **Clin Immunol Immunopathol** 1997 Jul;84(1):27–35

Role of IgA, IgG, and IgM antibodies against Haemophilus parainfluenzae antigens in IgA nephropathy. Suzuki S, et al. **Clin Nephrol** 1996 Nov;46(5):287–95

Immunological study of the expression of proteins encoded by the virulence plasmid of Yersinia enterocolitica serotype O:9. Fernández-Lago L, et al. **Contrib Microbiol Immunol** 1995;13:256–61

Protective role of immunoglobulin G antibodies to filamentous hemagglutinin and pertactin of Bordetella pertussis in Bordetella parapertussis infection. He Q, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):793–8

The outer surface lipoprotein OspA of Borrelia burgdorferi provides co-stimulatory signals to normal human peripheral CD4+ and CD8+ T lymphocytes. Knigge H, et al. **Eur J Immunol** 1996 Oct;26(10):2299–303

Protective immunization with plasmid DNA containing the outer surface lipoprotein A gene of Borrelia burgdorferi is independent of an eukaryotic promoter. Simon MM, et al. **Eur J Immunol** 1996 Dec;26(12):2831–40

Plasmid DNA and protein vaccination of mice to the outer surface protein A of Borrelia burgdorferi leads to induction

of T helper cells with specificity for a major epitope and augmentation of protective IgG antibodies in vivo. Zhong W, et al. **Eur J Immunol** 1996 Nov;26(11):2749–57

Human immune response to epitopes on the meningococcal outer membrane class 5 protein following natural infection. Danelli MG, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2–3):159–68

Role of two outer membrane antigens in the induction of protective immunity against Francisella tularensis strains of different virulence. Fulop M, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):245–7

Outer membranes of a lipopolysaccharide–protein complex (LPS–17 kDa protein) as chemical tularemia vaccines. Khlebnikov VS, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):227–33

Antibody studies in mice of outer membrane antigens for use in an improved meningococcal B and C vaccine. Milagres LG, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):9–17

Electrophoretic mobility and immune response of outer membrane proteins of Vibrio cholerae O139. Pal S, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2–3):143–8

The major outer membrane protein, CD, extracted from Moraxella (Branhamella) catarrhalis is a potential vaccine antigen that induces bactericidal antibodies. Yang YP, et al. **FEMS Immunol Med Microbiol** 1997 Mar;17(3):187–99

Salmonella typhimurium InvA expression probed with a monoclonal antibody to the C–terminal peptide of InvA. Clark CG, et al. **FEMS Microbiol Lett** 1996 Mar 1; 136(3):263–8

Molecular and immunological characterization of the major outer membrane proteins of Brucella. Cloeckaert A, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):1–8 (44 ref.)

Construction of CTB fusion proteins for screening of monoclonal antibodies against Salmonella typhi OmpC peptide loops. Paniagua–Solís J, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):31–6

Human serum antibody response against iron–repressible outer membrane proteins of Helicobacter pylori. Worst DJ, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):29–32

Inhibition of a Porphyromonas gingivalis colonizing factor between Actinomyces viscosus ATCC 19246 by monoclonal antibodies against recombinant 40–kDa outer–membrane protein. Saito S, et al. **Gen Pharmacol** 1997 May;28(5):675–80

Production and characterization of strain–specific monoclonal antibodies against outer membrane components of Azospirillum brasilense Sp245. Schloter M, et al. **Hybridoma** 1996 Jun;15(3):225–32

A human monoclonal antibody which inhibits the coaggregation activity of Porphyromonas gingivalis. Abiko Y, et al. **Infect Immun** 1997 Sep;65(9):3966–9

Antigenic characterization and analysis of the human immune response to outer membrane protein E of Branhamella catarrhalis. Bhushan R, et al. **Infect Immun** 1997 Jul; 65(7):2668–75

Surface exposure and species specificity of an immunoreactive domain of a 66–kilodalton outer membrane protein (P66) of the Borrelia spp. that cause Lyme disease. Bunikis J, et al. **Infect Immun** 1996 Dec;64(12):5111–6

Immunization with outer membrane protein P6 from nontypeable Haemophilus influenzae induces bactericidal antibody and affords protection in the chinchilla model of otitis media. DeMaria TF, et al. **Infect Immun** 1996 Dec; 64(12):5187–92

OspA antibodies inhibit the acquisition of Borrelia burgdorferi by Ixodes ticks. de Silva AM, et al. **Infect Immun** 1997 Aug;65(8):3146–50

Fine mapping of outer membrane protein P2 antigenic sites which vary during persistent infection by Haemophilus influenzae. Duim B, et al. **Infect Immun** 1996 Nov; 64(11):4673–9

Characterization of the physiological requirements for the bactericidal effects of a monoclonal antibody to OspB of Borrelia burgdorferi by confocal microscopy. Escudero R, et al. **Infect Immun** 1997 May;65(5):1908–15

Reactivity with a specific epitope of outer surface protein A predicts protection from infection with the Lyme disease spirochete, Borrelia burgdorferi. Golde WT, et al. **Infect Immun** 1997 Mar;65(3):882–9

Resistance to tick–borne spirochete challenge induced by Borrelia burgdorferi strains that differ in expression of outer surface proteins. Kurtti TJ, et al. **Infect Immun** 1996 Oct; 64(10):4148–53

Chlamydia trachomatis major outer membrane protein variants escape neutralization by both monoclonal antibodies and human immune sera. Lampe MF, et al. **Infect Immun** 1997 Jan;65(1):317–9

Outer membrane protein D15 is conserved among Haemophilus influenzae species and may represent a universal protective antigen against invasive disease. Loosmore SM, et al. **Infect Immun** 1997 Sep;65(9):3701–7

Identification of a frameshift mutation resulting in premature termination and loss of cell wall anchoring of the PAc antigen of Streptococcus mutans GS–5. Murakami Y, et al. **Infect Immun** 1997 Feb;65(2):794–7

Effect of Yersinia pestis YopM on experimental plague. Nemeth J, et al. **Infect Immun** 1997 Mar;65(3):924–30

Immunization with an acellular vaccine consisting of the outer membrane complex of Chlamydia trachomatis induces protection against a genital challenge. Pal S, et al. **Infect Immun** 1997 Aug;65(8):3361–9

Effect of immunoglobulin G isotype on the infectivity of Chlamydia trachomatis in a mouse model of intravaginal infection. Peterson EM, et al. **Infect Immun** 1997 Jul; 65(7):2693–9

Evaluation of recombinant transferrin–binding protein B variants from Neisseria meningitidis for their ability to induce cross–reactive and bactericidal antibodies against a genetically diverse collection of serogroup B strains. Rokbi B, et al. **Infect Immun** 1997 Jan;65(1):55–63

Antigenic heterogeneity and molecular analysis of CopB of Moraxella (Branhamella) catarrhalis. Sethi S, et al. **Infect Immun** 1997 Sep;65(9):3666–71

Identification of D motif epitopes in Staphylococcus aureus fibronectin–binding protein for the production of antibody inhibitors of fibronectin binding. Sun Q, et al. **Infect Immun** 1997 Feb;65(2):537–43

Oral immunization with the saliva–binding region of Streptococcus mutans AgI/II genetically coupled to the cholera toxin B subunit elicits T–helper–cell responses in gut–associated lymphoid tissues. Toida N, et al. **Infect Immun** 1997 Mar;65(3):909–15

Outer membrane protein of Neisseria meningitidis as a mucosal adjuvant for lipopolysaccharide of Brucella melitensis in mouse and guinea pig intranasal immunization models. Van De Verg LL, et al. **Infect Immun** 1996 Dec; 64(12):5263–8

Importance of an immunodominant surface–exposed loop on outer membrane protein P2 of nontypeable Haemophilus influenzae. Yi K, et al. **Infect Immun** 1997 Jan;65(1):150–5

The recombinant outer surface protein A (lipOspA) of Borrelia burgdorferi: a Lyme disease vaccine. Wallich R, et al. **Infection** 1996 Sep–Oct;24(5):396–7 (12 ref.)

Immunological and molecular variability of OspA and OspC. Implications for Borrelia vaccine development. Wilske B, et al. **Infection** 1996 Mar–Apr;24(2):208–12 (32 ref.)

Immunological analysis of extracellular products and cell surface components of motile Aeromonas isolated from fish. Santos Y, et al. **J Appl Bacteriol** 1996 Dec;81(6):585–93

Yersinia enterocolitica envelope proteins that are crossreactive with the thyrotropin receptor (TSHR) also have B–cell mitogenic activity. Zhang H, et al. **J Autoimmun** 1996 Aug;9(4):509–16

Acquired resistance to Borrelia burgdorferi infection in the rabbit. Comparison between outer surface protein A vaccine– and infection–derived immunity. Foley DM, et al. **J Clin Invest** 1997 Apr 15;99(8):2030–5

Recommendation to include OspA and OspB in the new immunoblotting criteria for serodiagnosis of Lyme disease. Hilton E, et al. **J Clin Microbiol** 1996 Jun;34(6):1353–4

Use of synthetic antigens improves detection by enzyme–linked immunosorbent assay of antibodies against abortigenic Chlamydia psittaci in ruminants. Kaltenboeck B, et al. **J Clin Microbiol** 1997 Sep;35(9):2293–8

Protein characterization of Australian spotted fever group rickettsiae and monoclonal antibody typing of Rickettsia honei. Stenos J, et al. **J Clin Microbiol** 1997 Jan;35(1):261–3

Extracellular 37–kDa antigenic protein from Actinobacillus actinomycetemcomitans induces TNF–alpha, IL–1 beta, and IL–6 in murine macrophages. Tani Y, et al. **J Dent Res** 1997 Sep;76(9):1538–47

Safety and immunogenicity of a conjugated Haemophilus influenzae type B polysaccharide–Neisseria meningitidis outer membrane protein vaccine. Yeh SJ, et al. **J Formos Med Assoc** 1997 Feb;96(2):110–5

Identification of a Borrelia burgdorferi OspA T cell epitope that promotes anti–OspA IgG in mice. Bockenstedt LK, et al. **J Immunol** 1996 Dec 15;157(12):5496–502

Borrelia burgdorferi outer surface protein A (OspA) activates and primes human neutrophils. Morrison TB, et al. **J Immunol** 1997 May 15;158(10):4838–45

Quantitation of IgG subclass antibody responses after immunization with a group B meningococcal outer membrane vesicle vaccine, using monoclonal mouse–human chimeric antibodies as standards. Naess LM, et al. **J Immunol Methods** 1996 Sep 13;196(1):41–9

Antigen conformation dependence of Chlamydia trachomatis infectivity neutralization. Fan J, et al. **J Infect Dis** 1997 Sep;176(3):713–21

Lyme borreliosis in transgenic mice tolerant to OspA from Borrelia burgdorferi 25015. Fikrig E, et al. **J Infect Dis** 1997 Apr;175(4):1000–3

An OspA–based DNA vaccine protects mice against infection with Borrelia burgdorferi. Luke CJ, et al. **J Infect Dis** 1997 Jan;175(1):91–7

Characterization of the protective borreliacidal antibody response in humans and hamsters after vaccination with a Borrelia burgdorferi outer surface protein A vaccine. Padilla ML, et al. **J Infect Dis** 1996 Oct;174(4):739–46

Immunization with outer surface protein (Osp) A, but not OspC, provides cross–protection of mice challenged with North American isolates of Borrelia burgdorferi. Probert WS, et al. **J Infect Dis** 1997 Feb;175(2):400–5

Blocking of iron uptake by monoclonal antibodies specific for the Neisseria meningitidis transferrin–binding protein 2. Pintor M, et al. **J Med Microbiol** 1996 Oct;45(4):252–7

Development and evaluation of a recombinant antigen, monoclonal antibody–based competitive ELISA for heartwater serodiagnosis. Katz JB, et al. **J Vet Diagn Invest** 1997 Apr;9(2):130–5

Tumor necrosis factor–alpha expression induced by anti–YopB antibodies coincides with protection against Yersinia enterocolitica infection in mice. Burdack S, et al. **Med Microbiol Immunol (Berl)** 1997 Mar;185(4):223–9

Anti–OspA antibody reduces reservoir competence of mice for Borrelia burgdorferi, the agent of Lyme disease. Brunet LR, et al. **Med Vet Entomol** 1997 Apr;11(2):198–200

Phenotypic variants of meningococci and their potential in phagocytic interactions: the influence of opacity proteins, pili, PilC and surface sialic acids. McNeil G, et al. **Microb Pathog** 1997 May;22(5):295–304

Comparison of OspA serotypes for Borrelia burgdorferi sensu lato from Japan, Europe and North America. Masuzawa T, et al. **Microbiol Immunol** 1996;40(8):539–45

Presence of common antigenic epitope in outer surface protein (Osp) A and OspB of Japanese isolates identified as Borrelia garinii. Masuzawa T, et al. **Microbiol Immunol** 1996;40(6):455–8

Immune responses to linear epitopes on the PorB protein of Neisseria meningitidis in patients with systemic meningococcal disease. Delvig AA, et al. **Microbiology** 1996 Sep;142 (Pt 9):2491–8

Structure, function and immunogenicity of streptococcal antigen I/II polypeptides. Jenkinson HF, et al. **Mol Microbiol** 1997 Jan;23(2):183–90 (33 ref.)

Random shuttle mutagenesis: gonococcal mutants deficient in pilin antigenic variation. Mehr IJ, et al. **Mol Microbiol** 1997 Mar;23(6):1121–31

Detection of Lyme disease after OspA vaccine [letter] Schutzer SE, et al. **N Engl J Med** 1997 Sep 11;337(11):794–5

Immunoglobulin G subclass response to major outer membrane proteins of nontypable Haemophilus influenzae in children with acute otitis media. Bernstein JM, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):363–71

Production and characterization of monoclonal antibodies to the EDTA extract of Leptospira interrogans, serovar icterohaemorrhagiae. Leite LT, et al. **Rev Soc Bras Med Trop** 1996 Sep–Oct;29(5):483–9

The meningococcal transferrin–binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of killing homologous and heterologous strains. Ala'Aldeen DA, et al. **Vaccine** 1996 Jan;14(1):49–53

Production, characterization and control of a Neisseria meningitidis hexavalent class 1 outer membrane protein containing vesicle vaccine. Claassen I, et al. **Vaccine** 1996 Jul;14(10):1001–8

OspA lipoprotein of Borrelia burgdorferi is a mucosal immunogen and adjuvant. Erdile LF, et al. **Vaccine** 1997 Jun;15(9):988–96

Immunization with meningococcal class 1 outer membrane protein produced in Bacillus subtilis and reconstituted in the presence of Zwittergent or Triton X–100. Idänpään–Heikkilä I, et al. **Vaccine** 1996 Jun;14(9):886–91

Oral delivery of purified lipoprotein OspA protects mice from systemic infection with Borrelia burgdorferi. Luke CJ, et al. **Vaccine** 1997 Apr–May;15(6–7):739–46

Safety, efficacy, and immunogenicity of a recombinant Osp subunit canine Lyme disease vaccine. Ma J, et al. **Vaccine** 1996 Oct;14(14):1366–74

Immunogenicity and safety of Haemophilus influenzae type b polysaccharide–Neisseria meningitidis conjugate vaccine in 7.5 micrograms liquid formulation: a comparison of three lots with the 15.0 micrograms lyophilized formulation. Study Group for 7.5 micrograms Liquid PedvaxHIB. Mendelman PM, et al. **Vaccine** 1997 Apr–May; 15(6–7):775–81

Recombinant Opc meningococcal protein, folded in vitro, elicits bactericidal antibodies after immunization. Musacchio A, et al. **Vaccine** 1997 Apr–May;15(6–7):751–8

Monoclonal immunoglobulin A antibody to the major outer membrane protein of the Chlamydia trachomatis mouse pneumonitis biovar protects mice against a chlamydial genital challenge. Pal S, et al. **Vaccine** 1997 Apr; 15(5):575–82

Antibodies to OspB prevent infection of C3H mice challenged with Borrelia burgdorferi isolates expressing truncated OspB antigens. Probert WS, et al. **Vaccine** 1997 Jan;15(1):15–9

Persistence of antibodies to meningococcal IgA1 protease versus decay of antibodies to group A polysaccharide and Opc protein. Thiesen B, et al. **Vaccine** 1997 Feb; 15(2):209–19

Evaluation of the safety, reactogenicity and immunogenicity of three recombinant outer surface protein (OspA) lyme vaccines in healthy adults. Van Hoecke C, et al. **Vaccine** 1996 Dec;14(17–18):1620–6

Effect of lipid modification on the physicochemical, structural, antigenic and immunoprotective properties of Haemophilus influenzae outer membrane protein P6. Yang YP, et al. **Vaccine** 1997 Jun;15(9):976–87

Immunogenicity of outer membrane protein of Pasteurella multocida in buffalo calves. Pati US, et al. **Vet Microbiol** 1996 Oct;52(3–4):301–11

Molecular diversity among the trypsin resistant surface proteins of group B streptococci. Flores AE, et al. **Zentralbl Bakteriol** 1996 Sep;285(1):44–51

A comparative study of the major outer membrane proteins of the avian haemophili and Pasteurella gallinarum. Hartmann L, et al. **Zentralbl Bakteriol** 1996 Jun; 284(1):47–51

[The electron microscopic observation of the effect of monoclonal antibody on the form and structure of mutans streptococci OMZ176] Wen L, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan;31(1):38–9 (Eng. Abstr.) **(Chi)**

[Species-specific monoclonal antibodies against the major outer membrane protein (MOMP) of Chlamydia trachomatis] Ni A, et al.
Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1995 Dec; 17(6):428–33 (Eng. Abstr.) **(Chi)**

[Pathogenesis of IgA nephropathy: role of outer membranes of Haemophilus parainfluenzae antigens] Suzuki S, et al. **Nippon Rinsho** 1997 Jun;55(6):1580–7 (30 ref.) (Eng. Abstr.) **(Jpn)**

[Antigenic structure of the Pro-rich region 536–566 of Bordetella pertussis pertactin (P.69). II. Analysis of peptide-specific antibodies] Kavun EM, et al.
Biokhimiia 1996 Aug;61(8):1366–74 (Eng. Abstr.) **(Rus)**

[The molecular parameters of a meningococcal serogroup B protein–polysaccharide vaccine] Bobyleva GV, et al.
Zh Mikrobiol Epidemiol Immunobiol 1996 Sep–Oct; (5):39–43 (Eng. Abstr.) **(Rus)**

[The role of the outer-membrane antigens of Yersinia pseudotuberculosis in the pathogenesis and diagnosis of pseudotuberculosis] Kuliashova LB, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 Jan–Feb;(1):14–8 (Eng. Abstr.) **(Rus)**

[The characteristics of the protectiveness of a preparation of Vibrio cholerae outer membrane based on the data from a study using the ligated intestinal loop] Urbanovich LIa, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar–Apr; (2):43–6 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Iron acquisition by oral hemolytic spirochetes: isolation of a hemin-binding protein and identification of iron reductase activity. Scott D, et al. **Can J Microbiol** 1996 Oct; 42(10):1072–9

Identification of a lactoferrin-binding protein in Prevotella nigrescens. de Lillo A, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):61–4

Isolation of heme-binding proteins from Vibrio anguillarum using affinity chromatography. Mazoy R, et al.
FEMS Microbiol Lett 1996 Jul 15;141(1):19–23

Purification and characterization of novel hemagglutinins from Vibrio mimicus: a 39-kilodalton major outer membrane protein and lipopolysaccharide. Alam M, et al. **Infect Immun** 1996 Oct;64(10):4035–41

Identification and purification of a hemoglobin-binding outer membrane protein from Neisseria gonorrhoeae. Chen CJ, et al. **Infect Immun** 1996 Dec;64(12):5008–14

Purification and characterization of Campylobacter rectus surface layer proteins. Nitta H, et al. **Infect Immun** 1997 Feb;65(2):478–83

Purification and characterization of a pilus of a Vibrio cholerae strain: a possible colonization factor. Yamashiro T, et al. **Infect Immun** 1996 Dec;64(12):5233–8

Molecular characterization and cellular localization of TpLRR, a processed leucine-rich repeat protein of Treponema pallidum, the syphilis spirochete. Shevchenko DV, et al. **J Bacteriol** 1997 May;179(10):3188–95

Purification of H-NS protein and its regulatory effect on transcription in vitro. Ueguchi C, et al.
Methods Enzymol 1996;274:271–6

Detection and localization of the EaeA protein of attaching and effacing Escherichia coli O45 from pigs using a monoclonal antibody. Zhu C, et al. **Microb Pathog** 1996 Sep;21(3):205–13

Expression and purification of the crystalline surface layer protein of Rickettsia typhi. Hahn MJ, et al.
Microbiol Immunol 1996;40(3):233–6

Evidence for in vivo but not in vitro expression of a Borrelia burgdorferi outer surface protein F (OspF) homologue. Akins DR, et al. **Mol Microbiol** 1995 Nov;18(3):507–20

Structure of TolC, the outer membrane component of the bacterial type I efflux system, derived from two-dimensional crystals. Koronakis V, et al.
Mol Microbiol 1997 Feb;23(3):617–26

Major outer membrane proteins of Pasteurella haemolytica serovars 1–15: comparison of separation techniques and surface-exposed proteins on selected serovars. Morton RJ, et al. **Vet Microbiol** 1996 Aug;51(3–4):319–30

Fimbriae extracts from enterotoxigenic Escherichia coli strains of bovine and porcine origin with K99 and/or F41 antigens. Vázquez F, et al. **Vet Microbiol** 1996 Feb; 48(3–4):231–41

[The isolation and immunochemical characteristics of the basic iron-regulated protein in meningococci] Filatova TN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar–Apr; (2):24–9 (Eng. Abstr.) **(Rus)**

METABOLISM

Proteins F1 and F2 of Streptococcus pyogenes. Properties of fibronectin binding. Hanski E, et al.
Adv Exp Med Biol 1996;408:141–50 (23 ref.)

Cytoplasmic proteins involved in thyroid hormone response also bind Neisseria gonorrhoeae Opa outer membrane proteins. Williams JM, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:288–9

Response of Neisseria meningitidis to iron limitation. Pettersson A, et al. **Antonie Van Leeuwenhoek** 1997 Feb; 71(1–2):129–36 (34 ref.)

Use of the pre-pro part of Staphylococcus hyicus lipase as a carrier for secretion of Escherichia coli outer membrane protein A (OmpA) prevents proteolytic degradation of OmpA by cell-associated protease(s) in two different gram-positive bacteria. Meens J, et al.
Appl Environ Microbiol 1997 Jul;63(7):2814–20

The characterization of the nv-gvpACNOFGH gene cluster involved in gas vesicle formation in Natronobacterium vacuolatum. Mayr A, et al. **Arch Microbiol** 1997 Jul; 168(1):24–32

Desferrioxamine-dependent iron transport in Erwinia amylovora CFBP1430: cloning of the gene encoding the ferrioxamine receptor FoxR. Kachadourian R, et al.
Biometals 1996 Apr;9(2):143–50

On the road to translocase. Wickner W, et al.
Cold Spring Harb Symp Quant Biol 1995;60:285–90 (59 ref.)

Translocation of the Yersinia YopE and YopH virulence proteins into target cells is mediated by YopB and YopD. Rosqvist R, et al. **Contrib Microbiol Immunol** 1995;13:230–4

A hyperthermostable protease of the subtilisin family bound to the surface layer of the archaeon Staphylothermus marinus. Mayr J, et al. **Curr Biol** 1996 Jun 1;6(6):739–49

Identification of p130Cas as a substrate of Yersinia YopH (Yop51), a bacterial protein tyrosine phosphatase that translocates into mammalian cells and targets focal adhesions. Black DS, et al. **EMBO J** 1997 May 15; 16(10):2730–44

Status of YopM and YopN in the Yersinia Yop virulon: YopM of Y.enterocolitica is internalized inside the cytosol of PU5-1.8 macrophages by the YopB, D, N delivery apparatus. Boland A, et al. **EMBO J** 1996 Oct 1; 15(19):5191–201

The SecDFyajC domain of preprotein translocase controls preprotein movement by regulating SecA membrane cycling. Duong F, et al. **EMBO J** 1997 Aug 15; 16(16):4871–9

The YopB protein of Yersinia pseudotuberculosis is essential for the translocation of Yop effector proteins across the target cell plasma membrane and displays a contact-dependent membrane disrupting activity.
Håkansson S, et al. **EMBO J** 1996 Nov 1;15(21):5812–23

The PTPase YopH inhibits uptake of Yersinia, tyrosine phosphorylation of p130Cas and FAK, and the associated accumulation of these proteins in peripheral focal adhesions. Persson C, et al. **EMBO J** 1997 May 1; 16(9):2307–18

Specific interaction between OutD, an Erwinia chrysanthemi outer membrane protein of the general secretory pathway, and secreted proteins. Shevchik VE, et al. **EMBO J** 1997 Jun 2;16(11):3007–16

The oligomeric structure of nucleoid protein H-NS is necessary for recognition of intrinsically curved DNA and for DNA bending. Spurio R, et al. **EMBO J** 1997 Apr 1;16(7):1795–805

Role of Escherichia coli histone-like nucleoid-structuring protein in bacterial metabolism and stress response--identification of targets by two-dimensional electrophoresis. Laurent-Winter C, et al.
Eur J Biochem 1997 Mar 15;244(3):767–73

Oligomeric states and siderophore binding of the ligand-gated FhuA protein that forms channels across Escherichia coli outer membranes. Locher KP, et al.
Eur J Biochem 1997 Aug 1;247(3):770–5

Outer membranes of a lipopolysaccharide-protein complex (LPS-17 kDa protein) as chemical tularemia vaccines. Khlebnikov VS, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):227–33

In vivo production of A-protein, lipopolysaccharide, iron-regulated outer membrane proteins and 70-kDa serine protease by Aeromonas salmonicida subsp. salmonicida. Ellis AE, et al. **FEMS Microbiol Lett** 1997 Apr 15; 149(2):157–63

The N-terminal half part of the oral streptococcal antigen I/IIf contains two distinct binding domains. Sciotti MA, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):439–45

Haemin binding as a factor in the virulence of Porphyromonas gingivalis. Smalley JW, et al.
FEMS Microbiol Lett 1996 Jul 15;141(1):65–70

Biogenesis of the bundle-forming pilus of enteropathogenic Escherichia coli: reconstitution of fimbriae in recombinant E. coli and role of DsbA in pilin stability--a review. Donnenberg MS, et al. **Gene** 1997 Jun 11;192(1):33–8 (62 ref.)

SurA, a periplasmic protein with peptidyl-prolyl isomerase activity, participates in the assembly of outer membrane porins. Rouvière PE, et al. **Genes Dev** 1996 Dec 15; 10(24):3170–82

Genetic organization of the yersiniabactin biosynthetic region and construction of avirulent mutants in Yersinia pestis. Bearden SW, et al. **Infect Immun** 1997 May;65(5):1659–68

Outer membrane differences between pathogenic and environmental Yersinia enterocolitica biogroups probed with hydrophobic permeants and polycationic peptides. Bengoechea JA, et al. **Infect Immun** 1996 Dec; 64(12):4891–9

Temperature- and medium-dependent secretion of proteins by Shiga toxin-producing Escherichia coli. Ebel F, et al. **Infect Immun** 1996 Nov;64(11):4472–9

Acquisition of iron from host proteins by the group A streptococcus. Eichenbaum Z, et al. **Infect Immun** 1996 Dec;64(12):5428–9

Imipenem resistance among Acinetobacter baumannii: association with reduced expression of a 33–36 kDa outer membrane protein. Clark RB. **J Antimicrob Chemother** 1996 Aug;38(2):245–51

The Tla protein of Porphyromonas gingivalis W50: a homolog of the RI protease precursor (PrpRI) is an outer membrane receptor required for growth on low levels of hemin. Aduse-Opoku J, et al. **J Bacteriol** 1997 Aug; 179(15):4778–88

Lipase secretion by bacterial hybrid ATP-binding cassette exporters: molecular recognition of the LipBCD, PrtDEF, and HasDEF exporters. Akatsuka H, et al. **J Bacteriol** 1997 Aug;179(15):4754–60

Linker mutagenesis of the Caulobacter crescentus S-layer protein: toward a definition of an N-terminal anchoring region and a C-terminal secretion signal and the potential for heterologous protein secretion. Bingle WH, et al.
J Bacteriol 1997 Feb;179(3):601–11

Na+-induced transcription of nhaA, which encodes an Na+/H+ antiporter in Escherichia coli, is positively regulated by nhaR and affected by hns. Dover N, et al.
J Bacteriol 1996 Nov;178(22):6508–17

Evidence that an N-terminal S-layer protein fragment triggers the release of a cell-associated high-molecular-weight amylase in Bacillus stearothermophilus ATCC 12980. Egelseer EM, et al.
J Bacteriol 1996 Oct;178(19):5602–9

Evidence that TolC is required for functioning of the Mar/AcrAB efflux pump of Escherichia coli. Fralick JA.
J Bacteriol 1996 Oct;178(19):5803–5

In vitro phosphorylation study of the arc two-component signal transduction system of Escherichia coli. Georgellis D, et al. **J Bacteriol** 1997 Sep;179(17):5429–35

Outer membrane translocation arrest of the TcpA pilin subunit in rfb mutants of Vibrio cholerae O1 strain 569B. Iredell JR, et al. **J Bacteriol** 1997 Mar;179(6):2038–46

VirB2 is a processed pilin-like protein encoded by the Agrobacterium tumefaciens Ti plasmid. Jones AL, et al.
J Bacteriol 1996 Oct;178(19):5706–11

The nucleoid protein H-NS facilitates chromosome DNA replication in Escherichia coli dnaA mutants. Katayama T, et al. **J Bacteriol** 1996 Oct;178(19):5790–2

Properties of the FhuA channel in the Escherichia coli outer membrane after deletion of FhuA portions within and outside the predicted gating loop. Killmann H, et al.
J Bacteriol 1996 Dec;178(23):6913–20

The hrpA and hrpC operons of Erwinia amylovora encode components of a type III pathway that secretes harpin. Kim JF, et al. **J Bacteriol** 1997 Mar;179(5):1690–7

asmB, a suppressor locus for assembly-defective OmpF mutants of Escherichia coli, is allelic to envA (lpxC). Kloser AW, et al. **J Bacteriol** 1996 Sep;178(17):5138–43

Transcriptional control mediated by the ArcA two-component response regulator protein of Escherichia coli: characterization of DNA binding at target promoters. Lynch AS, et al. **J Bacteriol** 1996 Nov;178(21):6238–49

Antimonite is accumulated by the glycerol facilitator GlpF in Escherichia coli. Sanders OI, et al. **J Bacteriol** 1997 May; 179(10):3365–7

Delineation and mutational analysis of the Yersinia pseudotuberculosis YopE domains which mediate translocation across bacterial and eukaryotic cellular membranes. Schesser K, et al. **J Bacteriol** 1996 Dec; 178(24):7227–33

Role of His243 in the phosphatase activity of EnvZ in Escherichia coli. Skarphol K, et al. **J Bacteriol** 1997 Feb; 179(4):1413–6

Lethality of the covalent linkage between mislocalized major outer membrane lipoprotein and the peptidoglycan of Escherichia coli. Yakushi T, et al. **J Bacteriol** 1997 May; 179(9):2857–62

DNA binding is not sufficient for H-NS-mediated repression of proU expression. Jordi BJ, et al. **J Biol Chem** 1997 May 2;272(18):12083–90

Modeling ligand-gated receptor activity. FhuA-mediated ferrichrome efflux from lipid vesicles triggered by phage T5 [published erratum appears in J Biol Chem 1997 Mar 28;272(13):8836] Letellier L, et al. **J Biol Chem** 1997 Jan 17;272(3):1448–51

Biphasic binding kinetics between FepA and its ligands. Payne MA, et al. **J Biol Chem** 1997 Aug 29;272(35):21950–5

Reconstitution of FhuA, an Escherichia coli outer membrane protein, into liposomes. Binding of phage T5 to Fhua triggers the transfer of DNA into the proteoliposomes. Plançon L, et al. **J Biol Chem** 1997 Jul 4;272(27):16868–72

In vitro analysis of the stop-transfer process during translocation across the cytoplasmic membrane of Escherichia coli. Sato K, et al. **J Biol Chem** 1997 Aug 8; 272(32):20082–7

Identification of heparan sulphate binding surface proteins of Helicobacter pylori: inhibition of heparan sulphate binding with sulphated carbohydrate polymers. Utt M, et al. **J Med Microbiol** 1997 Jul;46(7):541–6

Module swaps between related translocator proteins pIV(f1), pIV(IKe) and PulD: identification of a specificity domain. Daefler S, et al. **J Mol Biol** 1997 Mar 14;266(5):978–92

Identification of the bases in the ompF regulatory region, which interact with the transcription factor OmpR. Huang KJ, et al. **J Mol Biol** 1996 Oct 11;262(5):615–28

Structural relationships in the OmpR family of winged-helix transcription factors. Martínez-Hackert E, et al.
J Mol Biol 1997 Jun 13;269(3):301–12 (65 ref.)

Cytokine-inducing components of periodontopathogenic bacteria. Wilson M, et al. **J Periodontal Res** 1996 Aug; 31(6):393–407 (117 ref.)

Purification of H-NS protein and its regulatory effect on transcription in vitro. Ueguchi C, et al.

Methods Enzymol 1996;274:271–6

Transferrin binding protein two interacts with both the N-lobe and C-lobe of ovotransferrin. Alcantara J, et al. **Microb Pathog** 1996 Feb;20(2):73–85

Isolation and characterization of a hemin-binding cell envelope protein from Porphyromonas gingivalis. Kim SJ, et al. **Microb Pathog** 1996 Jul;21(1):65–70

Expression and purification of the crystalline surface layer protein of Rickettsia typhi. Hahn MJ, et al. **Microbiol Immunol** 1996;40(3):233–6

A phosphate-starvation-inducible outer-membrane protein of Pseudomonas fluorescens Ag1 as an immunological phosphate-starvation marker. Leopold K, et al. **Microbiology** 1997 Mar;143 (Pt 3):1019–27

The Azotobacter vinelandii gene algJ encodes an outer-membrane protein presumably involved in export of alginate. Rehm BH. **Microbiology** 1996 Apr;142 (Pt 4):873–80

The general secretion pathway of Erwinia carotovora subsp. carotovora: analysis of the membrane topology of OutC and OutF. Thomas JD, et al. **Microbiology** 1997 Mar;143 (Pt 3):713–20

Outer membrane proteins profiles of Pseudomonas aeruginosa after the post-antibiotic effect of imipenem. Hoštacká A, et al. **Microbios** 1997;90(362):45–50

YopH of Yersinia pseudotuberculosis interrupts early phosphotyrosine signalling associated with phagocytosis. Andersson K, et al. **Mol Microbiol** 1996 Jun;20(5):1057–69

Co-ordination between membrane oriC sequestration factors and a chromosome partitioning protein, TolC (MukA). Bahloul A, et al. **Mol Microbiol** 1996 Oct;22(2):275–82

The C-terminal domain of the secretin PulD contains the binding site for its cognate chaperone, PulS, and confers PulS dependence on pIVf1 function. Daefler S, et al. **Mol Microbiol** 1997 May;24(3):465–75

Examination of AsmA and its effect on the assembly of Escherichia coli outer membrane proteins. Deng M, et al. **Mol Microbiol** 1996 Aug;21(3):605–12

The product of the pilQ gene is essential for the biogenesis of type IV pili in Neisseria gonorrhoeae. Drake SL, et al. **Mol Microbiol** 1995 Dec;18(5):975–86

PilP, a pilus biogenesis lipoprotein in Neisseria gonorrhoeae, affects expression of PilQ as a high-molecular-mass multimer. Drake SL, et al. **Mol Microbiol** 1997 Feb; 23(4):657–68

The secretin-specific, chaperone-like protein of the general secretory pathway: separation of proteolytic protection and piloting functions. Hardie KR, et al. **Mol Microbiol** 1996 Dec;22(5):967–76

YopK of Yersinia pseudotuberculosis controls translocation of Yop effectors across the eukaryotic cell membrane. Holmström A, et al. **Mol Microbiol** 1997 Apr;24(1):73–91

Involvement of the sensor kinase EnvZ in the in vivo activation of the response-regulator PhoB by acetyl phosphate. Kim SK, et al. **Mol Microbiol** 1996 Oct; 22(1):135–47

Molecular characterization of hpuAB, the haemoglobin-haptoglobin-utilization operon of Neisseria meningitidis. Lewis LA, et al. **Mol Microbiol** 1997 Feb; 23(4):737–49

Structure of the DNA-binding domain of the OmpR family of response regulators [letter] Mizuno T, et al. **Mol Microbiol** 1997 May;24(3):665–7

Characterization of the negative elements involved in silencing the bgl operon of Escherichia coli: possible roles for DNA gyrase, H-NS, and CRP-cAMP in regulation. Mukerji M, et al. **Mol Microbiol** 1997 May;24(3):617–27

From acids to osmZ: multiple factors influence synthesis of the OmpF and OmpC porins in Escherichia coli. Pratt LA, et al. **Mol Microbiol** 1996 Jun;20(5):911–7 (28 ref.)

Multimers of the precursor of a type IV pilin-like component of the general secretory pathway are unrelated to pili. Pugsley AP. **Mol Microbiol** 1996 Jun;20(6):1235–45

Assembly proteins of CS1 pili of enterotoxigenic Escherichia coli. Sakellaris H, et al. **Mol Microbiol** 1996 Aug; 21(3):529–41

A genetic approach for analysing surface-exposed regions of the OmpC protein of Escherichia coli K-12. Vakharia H, et al. **Mol Microbiol** 1996 Feb;19(4):881–9

Integration host factor alleviates the H-NS-mediated repression of the early promoter of bacteriophage Mu. van Ulsen P, et al. **Mol Microbiol** 1996 Aug;21(3):567–78

The cytosolic SycE and SycH chaperones of Yersinia protect the region of YopE and YopH involved in translocation across eukaryotic cell membranes. Woestyn S, et al. **Mol Microbiol** 1996 Jun;20(6):1261–71

DsbA is required for stability of the type IV pilin of enteropathogenic escherichia coli. Zhang HZ, et al. **Mol Microbiol** 1996 Aug;21(4):787–97

hrp gene-dependent induction of hin1: a plant gene activated rapidly by both harpins and the avrPto gene-mediated signal. Gopalan S, et al. **Plant J** 1996 Oct;10(4):591–600

CGM1a antigen of neutrophils, a receptor of gonococcal opacity proteins. Chen T, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14851–6

Phosphorylation stimulates the cooperative DNA-binding properties of the transcription factor OmpR. Huang KJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2828–32

Double mutagenesis of a positive charge cluster in the ligand-binding site of the ferric enterobactin receptor, FepA. Newton SM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4560–5

Alterations of the outer membrane composition in Escherichia coli lacking the histone-like protein HU. Painbeni E, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6712–7

A recombinant Chlamydia trachomatis major outer membrane protein binds to heparan sulfate receptors on epithelial cells. Su H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11143–8

Evolution of cell-surface acid phosphatase of Burkholderia pseudomallei. Kondo E, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):592–9

Interaction between Yersinia pestis YopM protein and human alpha-thrombin. Skrzypek E, et al. **Thromb Res** 1996 Oct 1;84(1):33–43

PHARMACOLOGY

Intimin-dependent binding of enteropathogenic Escherichia coli to host cells triggers novel signaling events, including tyrosine phosphorylation of phospholipase C-gamma1. Kenny B, et al. **Infect Immun** 1997 Jul;65(7):2528–36

CD28 expression by mouse mast cells is modulated by lipopolysaccharide and outer surface protein A lipoprotein from Borrelia burgdorferi. Marietta EV, et al. **J Immunol** 1997 Sep 15;159(6):2840–8

Chlamydia trachomatis major outer membrane protein (MOMP) epitopes that activate HLA class II-restricted T cells from infected humans. Ortiz L, et al. **J Immunol** 1996 Nov 15;157(10):4554–67

Borrelia burgdorferi outer membrane protein A induces nuclear translocation of nuclear factor-kappa B and inflammatory activation in human endothelial cells. Wooten RM, et al. **J Immunol** 1996 Nov 15;157(10):4584–90

PHYSIOLOGY

YerA mediates the secretion of the YopE cytotoxin of Yersinia pseudotuberculosis. Frithz-Lindsten E, et al. **Contrib Microbiol Immunol** 1995;13:225–9

Role of YopD in the virulence of Yersinia enterocolitica. Hartland EL, et al. **Contrib Microbiol Immunol** 1995; 13:235–8

YopK, a novel virulence determinant of Yersinia pseudotuberculosis. Holmström A, et al. **Contrib Microbiol Immunol** 1995;13:239–43

Status of YopM and YopN in the Yersinia Yop virulon: YopM of Y.enterocolitica is internalized inside the cytosol of PU5-1.8 macrophages by the YopB, D, N delivery apparatus. Boland A, et al. **EMBO J** 1996 Oct 1; 15(19):5191–201

Coordinated and differential expression of histone-like proteins in Escherichia coli: regulation and function of the H-NS analog StpA. Sonden B, et al. **EMBO J** 1996 Sep 16;15(18):4970–80

Immotile phenotype of an Escherichia coli mutant lacking the histone-like protein HU. Nishida S, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):297–301

Molecular biology of S-layers. Bahl H, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):47–98 (197 ref.)

Functions of S-layers. Beveridge TJ, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):99–149

ACO1 expression in Saccharomyces cerevisiae is regulated by the HAP complex. Haviernik P, et al. **Folia Microbiol (Praha)** 1996;41(1):96–8

Type-4 pili and meningococcal adhesiveness. Nassif X, et al. **Gene** 1997 Jun 11;192(1):149–53 (28 ref.)

Characterization of the physiological requirements for the bactericidal effects of a monoclonal antibody to OspB of Borrelia burgdorferi by confocal microscopy. Escudero R, et al. **Infect Immun** 1997 May;65(5):1908–15

Effects of antibodies against cell surface protein antigen PAc-glucosyltransferase fusion proteins on glucan synthesis and cell adhesion of Streptococcus mutans. Yu H, et al. **Infect Immun** 1997 Jun;65(6):2292–8

Altered localization of HrpZ in Pseudomonas syringae pv. syringae hrp mutants suggests that different components of the type III secretion pathway control protein translocation across the inner and outer membranes of gram-negative bacteria. Charkowski AO, et al. **J Bacteriol** 1997 Jun;179(12):3866–74

Involvement of Fnr and ArcA in anaerobic expression of the tdc operon of Escherichia coli. Chattopadhyay S, et al. **J Bacteriol** 1997 Aug;179(15):4868–73

H-NS and RpoS regulate emergence of Lac Ara+ mutants of Escherichia coli MCS2. Gómez-Gómez JM, et al. **J Bacteriol** 1997 Jul;179(14):4620–2

Yersinia proteins that target host cell signaling pathways. Fällman M, et al. **J Clin Invest** 1997 Mar 15;99(6):1153–7 (35 ref.)

Voltage sensing in the PhoE and OmpF outer membrane porins of Escherichia coli: role of charged residues. Van Gelder P, et al. **J Mol Biol** 1997 Jun 20;269(4):468–72

Role of the Bordetella pertussis P.69/pertactin protein and the P.69/pertactin RGD motif in the adherence to and invasion of mammalian cells. Everest P, et al. **Microbiology** 1996 Nov;142 (Pt 11):3261–8

Biotechnology and biomimetic with crystalline bacterial cell surface layers (S-layers). Sára M, et al. **Micron** 1996 Apr; 27(2):141–56 (113 ref.)

Re-examination of the role of the periplasmic domain of EnvZ in sensing of osmolarity signals in Escherichia coli. Leonardo MR, et al. **Mol Microbiol** 1996 Nov;22(3):405–13

Pore functioning of outer membrane protein PhoE of Escherichia coli: mutagenesis of the constriction loop L3. Van Gelder P, et al. **Protein Eng** 1997 Jun;10(6):699–706

[The major outer-membrane protein of Chlamydia: structure and functions] De Sa C. **Vet Res** 1996;27(4–5):317–31 (76 ref.) (Eng. Abstr.) **(Fre)**

[Antibiotic extrusion and multidrug resistance] Nakae T. **Nippon Rinsho** 1997 May;55(5):1173–8 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Role of the M protein of Streptococcus pyogenes and its regulation] Okada N. **Nippon Saikingaku Zasshi** 1996 Feb; 51(2):571–81 (44 ref.) **(Jpn)**

[The role of bacteriophage lambda coded proteins in destruction of the bacterial cell wall and the control of lysis timing] Kędzierska S, et al. **Postepy Biochem** 1996; 42(4):331–9 (49 ref.) **(Pol)**

SECRETION

Two independent type III secretion mechanisms for YopE in Yersinia enterocolitica. Cheng LW, et al. **Mol Microbiol** 1997 May;24(4):757–65

THERAPEUTIC USE

Highly conserved Neisseria meningitidis surface protein confers protection against experimental infection. Martin D, et al. **J Exp Med** 1997 Apr 7;185(7):1173–83

Effects of polar glycopeptidolipids of Mycobacterium chelonae (pGPL-Mc) on haematopoietic regeneration and resistance to infection of sublethally irradiated mice. Neway T, et al. **Res Immunol** 1996 Jan;147(1):39–48

TOXICITY

Subacute toxicity of a Pseudomonas vaccine prepared from outer membrane fraction of Pseudomonas aeruginosa in beagle dogs. Kim DH, et al. **Arzneimittelforschung** 1997 Jan;47(1):80–3

Porphyromonas gingivalis surface components induce interleukin-1 release and tyrosine phosphorylation in macrophages. Saito A, et al. **FEMS Immunol Med Microbiol** 1996 Aug;15(1):51–7

Interleukin 10 suppresses experimental chronic, granulomatous inflammation induced by bacterial cell wall polymers. Herfarth HH, et al. **Gut** 1996 Dec;39(96):836–45

Intimin from enteropathogenic Escherichia coli restores murine virulence to a Citrobacter rodentium eaeA mutant: induction of an immunoglobulin A response to intimin and EspB. Frankel G, et al. **Infect Immun** 1996 Dec; 64(12):5315–25

ULTRASTRUCTURE

Purification and structural and functional characterization of FhuA, a transporter of the Escherichia coli outer membrane. Boulanger P, et al. **Biochemistry** 1996 Nov 12; 35(45):14216–24

BACTERIAL PHOTOSYNTHETIC REACTION CENTER see **PHOTOSYNTHETIC REACTION CENTER, BACTERIAL**

BACTERIAL PILI see **FIMBRIAE, BACTERIAL**

BACTERIAL POLYSACCHARIDES see **POLYSACCHARIDES, BACTERIAL**

BACTERIAL PROTEINS

Supramolecular architectures for the functionalization of solid surfaces. Knoll W, et al. **Adv Biophys** 1997;34:231–51

Critical aspects of bacterial protein toxins. Singh BR. **Adv Exp Med Biol** 1996;391:63–84 (112 ref.)

Sensitive in situ hybridization with catalyzed reporter deposition, streptavidin-Nanogold, and silver acetate autometallography: detection of single-copy human papillomavirus. Zehbe I, et al. **Am J Pathol** 1997 May; 150(5):1553–61

Recovery of high-affinity phage from a nitrostreptavidin matrix in phage-display technology. Balass M, et al. **Anal Biochem** 1996 Dec 15;243(2):264–9

Immobilized nitro-avidin and nitro-streptavidin as reusable affinity matrices for application in avidin-biotin technology. Morag E, et al. **Anal Biochem** 1996 Dec 15; 243(2):257–63

Synergistic activity of a Bacillus thuringiensis delta-endotoxin and a bacterial endochitinase against Spodoptera littoralis larvae. Regev A, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3581–6

Italians ban Hib vaccine in BSE scare [news] McKenzie K. **BMJ** 1997 Feb 8;314(7078):397

Limitation of enzyme-conjugated streptavidin-biotin system in the detection of eukaryotic proteins by immunoblot analysis. Kin SH, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):57–61

Multi-drug delivery system using streptavidin-transforming growth factor-alpha chimeric protein. Ohno K, et al. **DNA Cell Biol** 1996 May;15(5):401–6

Separation method of IgG fragments using protein L. Kouki T, et al. **Immunol Invest** 1997 Jun;26(4):399–408

Biophysical aspects of P-glycoprotein-mediated multidrug resistance. Wadkins RM, et al. **Int Rev Cytol** 1997;

171:121–65 (124 ref.)
Thermophilin 13, a nontypical antilisterial poration complex bacteriocin, that functions without a receptor. Marciset O, et al. **J Biol Chem** 1997 May 30;272(22):14277–84
Tumor pretargeting: role of avidin/streptavidin on monoclonal antibody internalization. Casalini P, et al. **J Nucl Med** 1997 Sep;38(9):1378–81
Immunity to Haemophilus influenzae type b polysaccharide capsule after vaccination with the complete series of oligosaccharide CRM197 conjugate vaccine in infants with human immunodeficiency virus infection. Peters VB, et al. **J Pediatr** 1996 Mar;128(3):363–5
From the Centers for Disease Control and Prevention. Progress toward elimination of Haemophilus influenzae type b disease among infants and children—United States, 1987–1995. **JAMA** 1996 Nov 20;276(19):1542, 1544
Progress toward elimination of Haemophilus influenzae type b disease among infants and children—United States, 1987–1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 25; 45(42):901–6
Bacterial cytochromes P-450. Munro AW, et al. **Mol Microbiol** 1996 Jun;20(6):1115–25 (63 ref.)
Glutathione S-transferase fusion proteins as an affinity reagent for rapid isolation of specific sequence directly from genomic DNA. Majka J, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2537–8
Rapid preparation of single stranded DNA from PCR products by streptavidin induced electrophoretic mobility shift. Pagratis NC. **Nucleic Acids Res** 1996 Sep 15; 24(18):3645–6
Genes and proteins of Escherichia coli K-12 (GenProtEC). Riley M. **Nucleic Acids Res** 1997 Jan 1;25(1):51–2
Haemophilus influenzae type b meningitis in a fully immunized child with a cerebrospinal fluid shunt. alMohsen I, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):706–8
The protein cofactor allows the sequence of an RNase P ribozyme to diversify by maintaining the catalytically active structure of the enzyme. Kim JJ, et al. **RNA** 1997 Jun;3(6):613–23
Inhibition of initial adhesion of uropathogenic Enterococcus faecalis to solid substrata by an adsorbed biosurfactant layer from Lactobacillus acidophilus. Velraeds MM, et al. **Urology** 1997 May;49(5):790–4
Helicobacter pylori: bacterial factors and interaction with the epithelial cells. Mégraud F. **Yale J Biol Med** 1996 Jan–Feb;69(1):35–7 (16 ref.)
[A quantitative of serum biotin with microplate-assay using affinity streptavidin] Hashimoto N, et al. **Rinsho Byori** 1996 Oct;44(10):970–6 (Eng. Abstr.) **(Jpn)**
[Group A Streptococcus and autoimmune] Ohkuni H. **Ryumachi** 1996 Dec;36(6):874–83 (36 ref.) **(Jpn)**
[Sensors and photoelectric devises using photosynthetic proteins] Miyake J, et al. **Tanpakushitsu Kakusan Koso** 1996 Oct;41(13):2050–4 (11 ref.) **(Jpn)**
[Bacterial drug extruding antiporter] Yamaguchi A. **Tanpakushitsu Kakusan Koso** 1997 Jun;42(8):1253–62 (34 ref.) **(Jpn)**
[Bacterial signal recognition particles (SRP): comparisons with mammalian SRP on their structure and function] Yamane K, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep; 41(11):1569–79 (57 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Cell-specific, multidrug delivery system using streptavidin-protein A fusion protein. Ohno K, et al. **Biochem Mol Med** 1996 Aug;58(2):227–33
Development of antigen-delivery systems, based on the Escherichia coli hemolysin secretion pathway. Gentschev I, et al. **Gene** 1996 Nov 7;179(1):133–40
Study of booster doses of two Haemophilus influenzae type b conjugate vaccines including their interchangeability. Scheifele D, et al. **Vaccine** 1996 Oct;14(15):1399–406

ADVERSE EFFECTS

Bacterial products and the control of ingestive behavior: clinical implications. Langhans W. **Nutrition** 1996 May; 12(5):303–15 (110 ref.)

ANALYSIS

Detection of streptococcal class I M protein in psoriasis by confocal immunofluorescent microscopy. Talanin NY, et al. **Acta Derm Venereol** 1997 May;77(3):175–80
Structure of cell envelope components of the primary and secondary forms of Xenorhabdus luminescens. Popowska M, et al. **Acta Microbiol Pol** 1997;46(1):19–25
Rapid detection of the staphylococcal mecA gene from BACTEC blood culture bottles by the polymerase chain reaction. Carroll KC, et al. **Am J Clin Pathol** 1996 Nov; 106(5):600–5
Enzymatic synthesis of UDP-galactofuranose and an assay for UDP-galactopyranose mutase based on high-performance liquid chromatography. Lee R, et al. **Anal Biochem** 1996 Nov 1;242(1):1–7
Development of a radioactive protein A-based assay for analysis of surface protein expression in gram-positive bacteria. Coyle TC, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2477–80
beta-Lactamase bioassay: a simplified method to determine extended-spectrum beta-lactamases (ESBL) in enterobacteria. Silva-Sánchez J, et al. **Arch Med Res** 1997 Summer;28(2):285–7
A non-radioactive and two radioactive assays for selenophosphate synthetase activity. Liu SY, et al. **Biofactors** 1997;6(3):305–9
Cold shock proteins and cold acclimation proteins in the psychrotrophic bacterium Pseudomonas putida Q5 and its transconjugant. Gumley AW, et al. **Can J Microbiol** 1996 Aug;42(8):798–803
Mycobacterium tuberculosis efpA encodes an efflux protein of the QacA transporter family. Doran JL, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):23–32
Specific antibody reactivity against a 110-kilodalton Actinobacillus actinomycetemcomitans protein in subjects with periodontitis. Fleming TF, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):678–81
A novel method for monitoring Mycobacterium bovis BCG trafficking with recombinant BCG expressing green fluorescent protein. Luo Y, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):761–8
Phenotypic detection of mec A-positive staphylococcal blood stream isolates: high accuracy of simple disk diffusion tests. Cormican MG, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):107–12
Extended theory of the electrophoretic mobility-shift analysis of nonspecific protein-DNA complexes, featuring cooperativity. Coombs RO, et al. **Electrophoresis** 1996 Jan; 17(1):12–9
Isolation of proteins and nucleic acids by electrophoresis on disposable gel columns. Costa MA, et al. **Electrophoresis** 1996 Apr;17(4):781–3
Probing protein function using a combination of gene knockout and proteome analysis by mass spectrometry. Dainese P, et al. **Electrophoresis** 1997 Mar–Apr; 18(3–4):432–42
A taxonomic study of the genus Listeria using sodium dodecyl sulphate-polyacrylamide gel electrophoresis of intracellular proteins. Finn B, et al. **Electrophoresis** 1996 Oct;17(10):1633–7
Analysis of proteins from different phase variants of the entomopathogenic bacteria Photorhabdus luminescens by two-dimensional zymography. Ong KL, et al. **Electrophoresis** 1997 May;18(5):834–9
Mapping and identification of Brucella melitensis proteins by two-dimensional electrophoresis and microsequencing. Teixeira-Gomes AP, et al. **Electrophoresis** 1997 Jan; 18(1):156–62
Septal localization of the SpoIIIE chromosome partitioning protein in Bacillus subtilis. Wu LJ, et al. **EMBO J** 1997 Apr 15;16(8):2161–9
Subtyping of Bacillus cereus by total cell protein patterns and arbitrary primer polymerase chain reaction. Matar GM, et al. **Eur J Epidemiol** 1996 Jun;12(3):309–14
Contrasting effects of chronic clozapine, Seroquel(TM) (ICI 204,636) and haloperidol administration of deltaFosB-like immunoreactivity in the rodent forebrain. Vahid-Ansari F, et al. **Eur J Neurosci** 1996 May;8(5):927–36
Electrophoresis of whole-cell soluble proteins of microorganisms isolated from bacteremias in endodontic therapy. Debelian GJ, et al. **Eur J Oral Sci** 1996 Oct–Dec; 104(5–6):540–6
Identification of a Streptococcus suis 60-kDa heat-shock protein using western blotting. Benkirane R, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):379–85
Profile of Helicobacter pylori cytotoxin derived from two areas of Japan with different prevalence of atrophic gastritis. Ito S, et al. **Gut** 1996 Dec;39(96):800–6
A preliminary study of fingerprinting of Pseudomonas aeruginosa by whole cell protein analysis by SDS-PAGE. Khan FG, et al. **Indian J Med Res** 1996 Dec;104:342–8
Pleiotropic effects of a mutation in rfaC on Escherichia coli hemolysin. Bauer ME, et al. **Infect Immun** 1997 Jun; 65(6):2218–24
Localization of Helicobacter pylori urease and heat shock protein in human gastric biopsies. Dunn BE, et al. **Infect Immun** 1997 Apr;65(4):1181–8
Expression profile and subcellular location of the plasmid-encoded virulence (Spv) proteins in wild-type Salmonella dublin. El-Gedaily A, et al. **Infect Immun** 1997 Aug;65(8):3406–11
Identification of proteins of Francisella tularensis induced during growth in macrophages and cloning of the gene encoding a prominently induced 23-kilodalton protein. Golovliov I, et al. **Infect Immun** 1997 Jun;65(6):2183–9
Glycosphingolipid-binding protein of Borrelia burgdorferi sensu lato. Kaneda K, et al. **Infect Immun** 1997 Aug; 65(8):3180–5
Identification and comparison of macrophage-induced proteins and proteins induced under various stress conditions in Brucella abortus [published erratum appears in Infect Immun 1997 Mar;65(3):1137] Rafie-Kolpin M, et al. **Infect Immun** 1996 Dec;64(12):5274–83
Tick factors and in vitro cultivation influence the protein profile, antigenicity and pathogenicity of a cloned Borrelia garinii isolate from Ixodes ricinus hemolymph. Hu CM, et al. **Infection** 1996 May-Jun;24(3):251–7
Streptococcus difficile is a nonhemolytic group B, type Ib Streptococcus. Vandamme P, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):81–5
Enzyme kinetics and biochemical analysis of ImiS, the metallo-beta-lactamase from Aeromonas sobria 163a. Walsh TR, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):423–31
Identification of two minor subunits in the pilus of Haemophilus influenzae. McCrea KW, et al. **J Bacteriol** 1997 Jul;179(13):4227–31
Differentiation between cold shock proteins and cold acclimation proteins in a mesophilic gram-positive bacterium, Enterococcus faecalis JH2-2. Panoff JM, et al. **J Bacteriol** 1997 Jul;179(13):4451–4
Leaderless polypeptides efficiently extracted from whole cells by osmotic shock. Thorstenson YR, et al. **J Bacteriol** 1997 Sep;179(17):5333–9
Rapid detection of bacterial surface proteins using an enzyme-linked immunosorbent assay system. Burkovski A. **J Biochem Biophys Methods** 1997 Feb 1;34(1):69–71
Analysis and typing of the vacA gene from cagA-positive strains of Helicobacter pylori isolated in Japan. Ito Y, et al. **J Clin Microbiol** 1997 Jul;35(7):1710–4
Distribution of colonization factor antigens among enterotoxigenic Escherichia coli strains isolated from patients with diarrhea in Nepal, Indonesia, Peru, and Thailand. Nirdnoy W, et al. **J Clin Microbiol** 1997 Feb; 35(2):527–30
Coli surface antigens associated with enterotoxigenic Escherichia coli strains isolated from persons with traveler's diarrhea in Asia. Serichantalergs O, et al. **J Clin Microbiol** 1997 Jun;35(6):1639–41
The use of peroxidase-mediated deposition of biotin-tyramide in combination with time-resolved fluorescence imaging of europium chelate label in immunohistochemistry and in situ hybridization. de Haas RR, et al. **J Histochem Cytochem** 1996 Oct;44(10):1091–9
Anti-biotin antibodies offer superior organelle-specific labeling of mitochondria over avidin or streptavidin. Hollinshead M, et al. **J Histochem Cytochem** 1997 Aug; 45(8):1053–7
An immunoligand assay for quantitation of process specific Escherichia coli host cell contaminant proteins in a recombinant bovine somatotropin. Whitmire ML, et al. **J Immunoassay** 1997 Feb;18(1):49–65
A monoclonal antibody reacts with maltose-binding protein of Escherichia coli and related enteric bacteria. Hsu SC, et al. **J Immunol Methods** 1997 May 26;204(2):169–74
A flow cytometric method for the rapid detection of beta-galactosidase transfected cells: an in vitro and in vivo study. Mouawad R, et al. **J Immunol Methods** 1997 May 12;204(1):51–6
Development of an immunoradiometric assay for quantitative determination of CrylA(b) protein in transgenic sugarcane plants. Vázquez RI, et al. **J Immunol Methods** 1996 Sep 13;196(1):33–9
Application of whole cell protein analysis by SDS PAGE to establish the source of Salmonella typhimurium. Khan IA, et al. **J Infect** 1996 Nov;33(3):169–71
Contact sites of peptide-oligoribonucleotide cross-links identified by a combination of peptide and nucleotide sequencing with MALDI MS. Urlaub H, et al. **J Protein Chem** 1997 Jul;16(5):375–83
Subcellular localization of the 65-kDa heat shock protein in mycobacteria by immunoblotting and immunogold ultracytochemistry. Esaguy N, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):85–90
Enterococcus faecium strains with vanA-mediated high-level glycopeptide resistance isolated from animal foodstuffs and fecal samples of humans in the community. Klare I, et al. **Microb Drug Resist** 1995 Fall;1(3):265–72
Detection and measurement of Staphylococcus epidermidis slime using an ELISA technique. Mempel M, et al. **Microbiol Immunol** 1996;40(2):115–9
Quantitation by enzyme immunoassay of spirosin from Lactobacillus reuteri and Escherichia coli. Yamato M, et al. **Microbiol Res** 1997 Feb;152(1):87–92
Specific and general stress proteins in Bacillus subtilis—a two-deimensional protein electrophoresis study. Bernhardt J, et al. **Microbiology** 1997 Mar;143(Pt 3):999–1017
Identification of vegetative proteins for a two-dimensional protein index of Bacillus subtilis. Schmid R, et al. **Microbiology** 1997 Mar;143 (Pt 3):991–8
A high molecular weight protein from Staphylococcus intermedius cross-reacts with Staphylococcus aureus enterotoxin antibodies. Laffan JJ, et al. **Microbios** 1996; 88(357):237–51
FtsZ-spirals and -arcs determine the shape of the invaginating septa in some mutants of Escherichia coli. Addinall SG, et al. **Mol Microbiol** 1996 Oct;22(2):231–7
New Rhizobium leguminosarum flavonoid-induced proteins revealed by proteome analysis of differentially displayed proteins. Guerreiro N, et al. **Mol Plant Microbe Interact** 1997 May;10(4):506–16
Distribution and characterization of Bacillus thuringiensis in the environment of the olive in Greece. Aptosoglou SG, et al. **New Microbiol** 1997 Jan;20(1):69–76
Colocalization of cell division proteins FtsZ and FtsA to cytoskeletal structures in living Escherichia coli cells by using green fluorescent protein. Ma X, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12998–3003
Colonisation factors amongst clinical isolates of enterotoxigenic Escherichia coli. Iyer L, et al. **Singapore Med J** 1995 Oct;36(5):495–7
Genomic, protein homogeneity and antigenic variability of Mycoplasma agalactiae. Solsona M, et al. **Vet Microbiol** 1996 May;50(1–2):45–58
Phagocytosis of Helicobacter pylori bacteria differing in the heparan sulfate binding by human polymorphonuclear leukocytes. Chmiela M, et al. **Zentralbl Bakteriol** 1996 Mar;

283(3):346–50
Occurrence of extracellular hyaluronic acid and hyaluronatlyase in streptococci of groups A, B, C, and G. Günther E, et al. **Zentralbl Bakteriol** 1996 Sep;285(1):64–73
Characterization of a large transferrin–binding protein from Actinobacillus pleuropneumoniae serotype 7. Wilke M, et al. **Zentralbl Veterinarmed [B]** 1997 Apr;44(2):73–86
[Utility of pyrrolidonyl–arylamidase detection for typing Enterobacteriaceae and non–fermenting Gram–negative bacteria] Nicola F, et al. **Rev Argent Microbiol** 1995 Oct–Dec;27(4):204–9 (Eng. Abstr.) **(Spa)**

ANTAGONISTS & INHIBITORS

Modes of action of tunicamycin, liposidomycin B, and mureidomycin A: inhibition of phospho–N–acetylmuramyl–pentapeptide translocase from Escherichia coli. Brandish PE, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1640–4
Inhibition of the multidrug transporter NorA prevents emergence of norfloxacin resistance in Staphylococcus aureus [letter] Markham PN, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2673–4
Inhibition of preprotein translocation and reversion of the membrane inserted state of SecA by a carboxyl terminus binding mAb. den Blaauwen T, et al. **Biochemistry** 1997 Jul 29;36(30):9159–68
Site–specific introduction of an electroactive label into a non–electroactive enzyme (beta–lactamase I). Di Gleria K, et al. **FEBS Lett** 1997 Jan 3;400(2):155–7
A novel compound, 1,1–dimethyl–5(1–hydroxypropyl)–4,6,7–trimethylindan, is an effective inhibitor of the tet(K) gene–encoded metal–tetracycline/H+ antiporter of Staphylococcus aureus. Hirata T, et al. **FEBS Lett** 1997 Jul 28;412(2):337–40
Evolution of the bacterial dihydrofolate reductase inhibitors. Periti P. **J Antimicrob Chemother** 1995 Dec;36(6):887–90 (27 ref.)
Reactivation of the Bacillus subtilis anti–sigma B antagonist, RsbV, by stress– or starvation–induced phosphatase activities. Voelker U, et al. **J Bacteriol** 1996 Sep; 178(18):5456–63
The potential role of alpha 2–macroglobulin in the control of cysteine proteinases (gingipains) from Porphyromonas gingivalis. Grøn H, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 1):61–8
Suppressive effects of chlorophyllin on mutagen–induced umu C gene expression in Salmonella typhimurium (TA 1535/pSK 1002) and tumor promoter–dependent ornithine decarboxylase induction in BALB/c 3T3 fibroblast cells. Okai Y, et al. **Mutat Res** 1996 Aug;370(1):11–7
The C–terminal half of the anti–sigma factor, FlgM, becomes structured when bound to its target, sigma 28. Daughdrill GW, et al. **Nat Struct Biol** 1997 Apr;4(4):285–91

BIOSYNTHESIS

Factors influencing microbial growth and the efficiency of microbial protein synthesis: a review. Fébel H, et al. **Acta Vet Hung** 1996;44(1):39–56 (83 ref.)
Overview of hyperthermophiles and their heat–shock proteins. Baross JA, et al. **Adv Protein Chem** 1996;48:1–34 (210 ref.)
Effects of isoniazid on ultrastructure of Mycobacterium aurum and Mycobacterium tuberculosis and on production of secreted proteins. Bardou F, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2459–67
Increased expression of fibronectin–binding proteins by fluoroquinolone–resistant Staphylococcus aureus exposed to subinhibitory levels of ciprofloxacin. Bisognano C, et al. **Antimicrob Agents Chemother** 1997 May;41(5):906–13
Isoniazid induces expression of the antigen 85 complex in Mycobacterium tuberculosis. Garbe TR, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1754–6
Induction of DnaK and GroEL heat shock proteins by fluoroquinolones in Escherichia coli. Mizushima T, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):193–5
Direct evidence for antipseudomonal activity of macrolides: exposure–dependent bactericidal activity and inhibition of protein synthesis by erythromycin, clarithromycin, and azithromycin. Tateda K, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2271–5
Expression of Escherichia coli TehA gives resistance to antiseptics and disinfectants similar to that conferred by multidrug resistance efflux pumps. Turner RJ, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):440–4
Expression of colonization factor antigen I fimbriae by enterotoxigenic Escherichia coli; influence of growth conditions and a recombinant positive regulatory gene. Halvorsen T, et al. **APMIS** 1997 Mar;105(3):247–54
Engineering Bacillus thuringiensis bioinsecticides with an indigenous site–specific recombination system. Baum JA, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4367–73
Cold stress proteins induced in Listeria monocytogenes in response to temperature downshock and growth at low temperatures. Bayles DO, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1116–9
Cloning of the nprA gene for neutral protease A of Bacillus thuringiensis and effect of in vivo deletion of nprA on insecticidal crystal protein. Donovan WP, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2311–7
Alkaline stress response in Enterococcus faecalis: adaptation, cross–protection, and changes in protein synthesis. Flahaut S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):812–4
Over expression of inducible proteins in Escherichia coli by treatment with ethanol. Basu T, et al. **Biochem Mol Biol Int** 1997 May;41(6):1093–100
Overproduction of Sac7d and Sac7e reveals only Sac7e to be a DNA–binding protein with ribonuclease activity from the extremophilic archaeon Sulfolobus acidocaldarius. Kulms D, et al. **Biol Chem** 1997 Jun;378(6):545–51
Conversion of bacterial gene products to secretion–competent fusion proteins. Mollenkopf HJ, et al. **Biotechniques** 1996 Nov;21(5):854, 856–60
Use of pEX and pGEX bacterial heterologous protein expression systems for recombinant oncoprotein production and antisera generation. Pompéia C, et al. **Biotechnol Appl Biochem** 1997 Jun;25 (Pt 3):207–15
In vivo expression of exoprotein synthesis with a Sae mutant of Staphylococcus aureus. Rampone H, et al. **Can J Vet Res** 1996 Jul;60(3):237–40
In vivo observation of polypeptide flux through the bacterial chaperonin system. Ewalt KL, et al. **Cell** 1997 Aug 8; 90(3):491–500
A novel method for monitoring Mycobacterium bovis BCG trafficking with recombinant BCG expressing green fluorescent protein. Luo Y, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):761–8
Detection of genes in Escherichia coli sequences determined by genome projects and prediction of protein production levels, based on multivariate diversity in codon usage. Kanaya S, et al. **Comput Appl Biosci** 1996 Jun;12(3):213–25
Parameters affecting the use of the lac repressor system in eukaryotic cells and transgenic animals. Wyborski DL, et al. **Environ Mol Mutagen** 1996;28(4):447–58
Overproduction of a foreign membrane protein in Escherichia coli stimulates and depends on phospholipid synthesis. Nieboer M, et al. **Eur J Biochem** 1996 Oct 15; 241(2):691–6
Amounts of proteins altered by mutations in the dnaA gene of Escherichia coli. Ohba A, et al. **FEBS Lett** 1997 Mar 10;404(2–3):125–8
Simultaneous production of the 34–kDa and 40–kDa proteins from Bacillus thuringiensis subsp. thompsoni is required for the formation of inclusion bodies. Rang C, et al. **FEBS Lett** 1997 Aug 4;412(3):587–91
An inducible expression system of histidine–tagged proteins in Streptomyces lividans for one–step purification by Ni2+ affinity chromatography. Enguita FJ, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):135–40
Isolation and properties of bacteriolytic enzyme–producing cocci from the human mouth. Kanamoto T, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):135–40
Production of bleomycin N–acetyltransferase in Escherichia coli and Streptomyces verticillus. Matsuo H, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):83–8
Inducible production and cellular location of the epidermin biosynthetic enzyme EpiB using an improved staphylococcal expression system. Peschel A, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):279–84
Influence of the 20–kDa protein from Bacillus thuringiensis ssp. israelensis on the rate of production of truncated Cry1C proteins. Rang C, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):261–4
Expression of the Streptomyces coelicolor A3(2) ptpA gene encoding a phosphotyrosine protein phosphatase leads to overproduction of secondary metabolites in S. lividans. Umeyama T, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2–3):177–84
Inducible synthesis of the mitomycin C resistance gene product (MCRA) from Streptomyces lavendulae. August PR, et al. **Gene** 1996 Oct 10;175(1–2):261–7
The molecular genetics of type–4 fimbriae in Pseudomonas aeruginosa--a review. Mattick JS, et al. **Gene** 1996 Nov 7;179(1):147–55 (70 ref.)
Identification of a second transcriptional start site for the insecticidal protein gene cryIVA of Bacillus thuringiensis subsp. israelensis. Yoshisue H, et al. **Gene** 1997 Feb 7; 185(2):251–5
Differential thermoregulation of two highly homologous cold–shock genes, cspA and cspB, of Escherichia coli. Etchegaray JP, et al. **Genes Cells** 1996 Feb;1(2):171–8
How is osmotic regulation of transcription of the Escherichia coli proU operon achieved? A review and a model. Gowrishankar J, et al. **Genetica** 1996 May;97(3):363–78 (140 ref.)
Synthesis and activity of Helicobacter pylori urease and catalase at low pH. Bauerfeind P, et al. **Gut** 1997 Jan; 40(1):25–30
High–level heterologous expression and secretion in rapidly growing nonpathogenic mycobacteria of four major Mycobacterium tuberculosis extracellular proteins considered to be leading vaccine candidates and drug targets. Harth G, et al. **Infect Immun** 1997 Jun;65(6):2321–8
Vesicular interactions of the Chlamydia trachomatis inclusion are determined by chlamydial early protein synthesis rather than route of entry. Scidmore MA, et al. **Infect Immun** 1996 Dec;64(12):5366–72
The Yersinia enterocolitica GsrA stress protein, involved in intracellular survival, is induced by macrophage phagocytosis. Yamamoto T, et al. **Infect Immun** 1997 Jun; 65(6):2190–6
Structure–activity relationships of hygromycin A and its analogs: protein synthesis inhibition activity in a cell free system. Hayashi SF, et al. **J Antibiot (Tokyo)** 1997 Jun; 50(6):514–21
Mechanisms of hyperproduction of TEM–1 beta–lactamase by clinical isolates of Escherichia coli. Wu PJ, et al. **J Antimicrob Chemother** 1995 Dec;36(6):927–39
Mutations that increase expression of the rpoS gene and decrease its dependence on hfq function in Salmonella typhimurium. Brown L, et al. **J Bacteriol** 1997 Feb; 179(3):656–62
Specific detection of Salmonella typhimurium proteins synthesized intracellularly. Burns–Keliher LL, et al. **J Bacteriol** 1997 Jun;179(11):3604–12
Role of the Escherichia coli FadR regulator in stasis survival and growth phase–dependent expression of the uspA, fad, and fab genes. Farewell A, et al. **J Bacteriol** 1996 Nov; 178(22):6443–50
Promoter mapping and transcriptional regulation of the iron–regulated Neisseria gonorrhoeae fbpA gene. Forng RY, et al. **J Bacteriol** 1997 May;179(9):3047–52
The Escherichia coli stpA gene is transiently expressed during growth in rich medium and is induced in minimal medium and by stress conditions. Free A, et al. **J Bacteriol** 1997 Feb;179(3):909–18
A new periplasmic protein of Escherichia coli which is synthesized in spheroplasts but not in intact cells. Hagenmaier S, et al. **J Bacteriol** 1997 Mar;179(6):2073–6
Protein expression in response to folate stress in Escherichia coli. Huang EY, et al. **J Bacteriol** 1997 Sep;179(17):5648–53
Regulation of RNA polymerase sigma subunit synthesis in Escherichia coli: intracellular levels of four species of sigma subunit under various growth conditions. Jishage M, et al. **J Bacteriol** 1996 Sep;178(18):5447–51
Global changes in protein composition of N2–fixing–Azoarcus sp. strain BH72 upon diazosome formation. Karg T, et al. **J Bacteriol** 1996 Oct; 178(19):5748–54
Sinorhizobium teranga bv. acaciae ORS1073 and Rhizobium sp. strain ORS1001, two distantly related Acacia–nodulating strains, produce similar Nod factors that are O carbamoylated, N methylated, and mainly sulfated. Lorquin J, et al. **J Bacteriol** 1997 May;179(9):3079–83
Identification of greA encoding a transcriptional elongation factor as a member of the carA–orf–carB–greA operon in Pseudomonas aeruginosa PAO1. Lu CD, et al. **J Bacteriol** 1997 May;179(9):3043–6
Quorum sensing in Vibrio anguillarum: characterization of the vanI/vanR locus and identification of the autoinducer N–(3–oxodecanoyl)–L–homoserine lactone. Milton DL, et al. **J Bacteriol** 1997 May;179(9):3004–12
Osmotically induced response in representatives of halophilic prokaryotes: the bacterium Halomonas elongata and the archaeon Haloferax volcanii. Mojica FJ, et al. **J Bacteriol** 1997 Sep;179(17):5471–81
Determinants for overproduction of the Pseudomonas oleovorans cytoplasmic membrane protein alkane hydroxylase in alk+ Escherichia coli W3110. Nieboer M, et al. **J Bacteriol** 1997 Feb;179(3):762–8
A divergently transcribed open reading frame is located upstream of the Pseudomonas aeruginosa vfr gene, a homolog of Escherichia coli crp. Runyen–Janecky LJ, et al. **J Bacteriol** 1997 May;179(9):2802–9
Carbon source–dependent synthesis of SecB, a cytosolic chaperone involved in protein translocation across Escherichia coli membranes. Seoh HK, et al. **J Bacteriol** 1997 Feb;179(4):1077–81
Escherichia coli proteins synthesized during recovery from starvation. Siegele DA, et al. **J Bacteriol** 1996 Nov; 178(21):6352–6
Effect of traY amber mutations on F–plasmid traY promoter activity in vivo. Silverman PM, et al. **J Bacteriol** 1996 Oct; 178(19):5787–9
Effects of overexpression of Pkn2, a transmembrane protein serine/threonine kinase, on development of Myxococcus xanthus. Udo H, et al. **J Bacteriol** 1996 Nov;178(22):6647–9
Purification of Vibrio cholerae fur and estimation of its intracellular abundance by antibody sandwich enzyme–linked immunosorbent assay. Watnick PI, et al. **J Bacteriol** 1997 Jan;179(1):243–7
Lipopolysaccharide dependence of cyanophage sensitivity and aerobic nitrogen fixation in Anabaena sp. strain PCC 7120. Xu X, et al. **J Bacteriol** 1997 May;179(9):2884–91
Characterization of the Bacillus subtilis thiC operon involved in thiamine biosynthesis. Zhang Y, et al. **J Bacteriol** 1997 May;179(9):3030–5
RNA polymerase beta mutations have reduced sigma70 synthesis leading to a hyper–temperature–sensitive phenotype of a sigma70 mutant. Zhou YN, et al. **J Bacteriol** 1997 Jul;179(13):4292–8
Induction of Rhizobium meliloti nodC gene by Alnus incana compounds. Małek W. **J Basic Microbiol** 1996;36(5):319–26
Functional expression and site–directed mutagenesis of photoactive yellow protein. Mihara K, et al. **J Biochem (Tokyo)** 1997 May;121(5):876–80
DNA binding is not sufficient for H–NS–mediated repression of proU expression. Jordi BJ, et al. **J Biol Chem** 1997 May 2;272(18):12083–90
Effect of amino acid substitutions on the activity of carnobacteriocin B2. Overproduction of the antimicrobial peptide, its engineered variants, and its precursor in Escherichia coli. Quadri LE, et al. **J Biol Chem** 1997 Feb 7;272(6):3384–8
Characterization of cyanobacterial biliverdin reductase. Conversion of biliverdin to bilirubin is important for normal

phycobiliprotein biosynthesis. Schluchter WM, et al. **J Biol Chem** 1997 May 23;272(21):13562–9

Genetic tools for selective labeling of proteins with alpha–15N–amino acids. Waugh DS. **J Biomol NMR** 1996 Sep;8(2):184–92

Detection of motility and putative synthesis of flagellar proteins in Salmonella pullorum cultures. Holt PS, et al. **J Clin Microbiol** 1997 Apr;35(4):1016–20

Atypical and typical neuroleptic treatments induce distinct programs of transcription factor expression in the striatum. Hiroi N, et al. **J Comp Neurol** 1996 Oct 7;374(1):70–83

Synthesis of microbial protein in ruminally cannulated cows fed alfalfa silage, alfalfa hay, or corn silage. Hristov AN, et al. **J Dairy Sci** 1996 Sep;79(9):1627–37

Expression of vacuolating cytotoxin in clinical isolates of Helicobacter pylori. Kodama K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:9–11

Defective transcription of the IL–2 gene is associated with impaired expression of c–Fos, FosB, and JunB in anergic T helper 1 cells. Mondino A, et al. **J Immunol** 1996 Sep 1;157(5):2048–57

Structural probing and mutagenic analysis of the stem–loop required for Escherichia coli dnaX ribosomal frameshifting: programmed efficiency of 50%. Larsen B, et al. **J Mol Biol** 1997 Aug 8;271(1):47–60

A survey of polypeptide deformylase function throughout the eubacterial lineage. Mazel D, et al. **J Mol Biol** 1997 Mar 14;266(5):939–49

Inhibition of Escherichia coli protein synthesis by abortive translation of phage lambda minigenes. Ontiveros C, et al. **J Mol Biol** 1997 Jun 6;269(2):167–75

Dihydrofolate reductase synthesis in the presence of immobilized methotrexate. An approach to a continuous cell–free protein synthesis system. Marszal E, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):543–8

Identification of a Shigella flexneri criR gene increasing ipa genes expression: a novel member of response regulators of the two–component signal transduction family. Qi MS, et al. **Jpn J Med Sci Biol** 1996 Oct–Dec;49(5–6):219–39

Expression of both M protein and hyaluronic acid capsule by group A streptococcal strains results in a high virulence for chicken embryos. Schmidt KH, et al. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):169–73

Biochemical, immunological and toxicological characteristics of the crystal proteins of Bacillus thuringiensis subsp. medellin. Orduz S, et al. **Mem Inst Oswaldo Cruz** 1996 Mar–Apr;91(2):231–7

Are S–layer glycoproteins and lipopolysaccharides related? Schäffer C, et al. **Microb Drug Resist** 1996 Spring; 2(1):17–23

Phosphate–starvation–inducible proteins in Bacillus subtilis: a two–dimensional gel electrophoresis study. Eymann C, et al. **Microbiology** 1996 Nov;142 (Pt 11):3163–70

Expression of the Bacillus subtilis spoIVB gene is under dual sigma F/sigma G control. Gomez M, et al. **Microbiology** 1996 Dec;142 (Pt 12):3453–7

A 16 kDa protein family overexpressed by Streptococcus thermophilus PB18 in acid environments. González–Márquez H, et al. **Microbiology** 1997 May;143 (Pt 5):1587–94

Effect of the nitrogen source on phycobiliprotein synthesis and cell reserves in a chromatically adapting filamentous cyanobacterium. Liotenberg S, et al. **Microbiology** 1996 Mar;142 (Pt 3):611–22

Spo0A represses transcription of the cry toxin genes in Bacillus thuringiensis. Poncet S, et al. **Microbiology** 1997 Aug;143 (Pt 8):2743–51

Transcriptional regulation of pilC2 in Neisseria gonorrhoeae: response to oxygen availability and evidence for growth–phase regulation in Escherichia coli. Mellies J, et al. **Mol Gen Genet** 1997 Jul;255(3):285–93

Bacillus subtilis can modulate its capacity and specificity for protein secretion through temporally controlled expression of the sipS gene for signal peptidase I. Bolhuis A, et al. **Mol Microbiol** 1996 Nov;22(4):605–18

Regulatory inputs for the synthesis of ComK, the competence transcription factor of Bacillus subtilis. Hahn J, et al. **Mol Microbiol** 1996 Aug;21(4):763–75

Dual regulation of the paraquat–inducible gene pqi–5 by SoxS and RpoS in Escherichia coli. Koh YS, et al. **Mol Microbiol** 1996 Oct;22(1):53–61

Phenotypic characterization and regulation of the nolA gene of Bradyrhizobium japonicum. Garcia M, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):625–36

Analysis of the C–terminal secretion signal of the Rhizobium leguminosarum nodulation protein NodO; a potential system for the secretion of heterologous proteins during nodule invasion. Sutton JM, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):671–80

HrpG, a key hrp regulatory protein of Xanthomonas campestris pv. vesicatoria is homologous to two–component response regulators. Wengelnik K, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):704–12

Intracellular generation of superoxide by copper sulphate in Escherichia coli. Kimura T, et al. **Mutat Res** 1997 Mar 17;389(2–3):237–42

Transgenic plants: an emerging approach to pest control. Estruch JJ, et al. **Nat Biotechnol** 1997 Feb;15(2):137–41 (52 ref.)

Getting more from the two–hybrid system: N–terminal fusions to LexA are efficient and sensitive baits for two–hybrid studies. Béranger F, et al. **Nucleic Acids Res** 1997 May 15;25(10):2035–6

Mechanisms of HSP65 expression induced by gamma delta T cells in murine Toxoplasma gondii infection. Hisaeda H, et al. **Pathobiology** 1996;64(4):198–203

A nuclear–encoded function essential for translation of the chloroplast psaB mRNA in chlamydomonas. Stampacchia O, et al. **Plant Cell** 1997 May;9(5):773–82

Specific sequence modifications of a cry3B endotoxin gene result in high levels of expression and insect resistance. Iannacone R, et al. **Plant Mol Biol** 1997 Jun;34(3):485–96

Chloroplastic isoforms of DnaJ and GrpE in pea. Schlicher T, et al. **Plant Mol Biol** 1997 Jan;33(1):181–5

Differential transcription of phycobiliprotein components in Rhodella violacea. Light and nitrogen effects on the 33–kilodalton phycoerythrin rod linker polypeptide, phycocyanin, and phycoerythrin transcripts. Lichtlé C, et al. **Plant Physiol** 1996 Nov;112(3):1045–54

Genetic transformation, recovery, and characterization of fertile soybean transgenic for a synthetic Bacillus thuringiensis cryIAc gene. Stewart CN Jr, et al. **Plant Physiol** 1996 Sep;112(1):121–9

Secretion of proteins by Escherichia coli and its application in production of recombinant proteins. Fikus MM, et al. **Postepy Biochem** 1995;41(5 Suppl):313–8 (45 ref.)

A cluster of bacterial genes for anaerobic benzene ring biodegradation. Egland PG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6484–9

SoxR, a [2Fe–2S] transcription factor, is active only in its oxidized form. Gaudu P, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10094–8

Transgenic elite indica rice plants expressing CryIAc delta–endotoxin of Bacillus thuringiensis are resistant against yellow stem borer (Scirpophaga incertulas). Nayak P, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2111–6

A novel host factor for integration of mycobacteriophage L5. Pedulla ML, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15411–6

Hrp pilus: an hrp–dependent bacterial surface appendage produced by Pseudomonas syringae pv. tomato DC3000. Roine E, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1; 94(7):3459–64

Production of chitinase from shellfish waste by Pseudomonas aeruginosa K–187. Wang SL, et al. **Proc Natl Sci Counc Repub China B** 1997 Apr;21(2):71–8

A method of screening for mutant proteins containing cysteine residues using fluorescein–5–maleimide. McLachlin DT, et al. **Protein Expr Purif** 1996 May; 7(3):275–80

Expression, purification, and functional analysis of the TyrR protein of Haemophilus influenzae. Zhu Q, et al. **Protein Expr Purif** 1997 Jul;10(2):237–46

Production and crystallization of a selenomethionyl variant of UmuD', an Escherichia coli SOS response protein. Peat TS, et al. **Proteins** 1996 Aug;25(4):506–9

Oral immunization with recombinant Salmonella typhimurium expressing surface protein antigen A (SpaA) of Streptococcus sobrinus: effects of the Salmonella virulence plasmid on the induction of protective and sustained humoral responses in rats. Redman TK, et al. **Vaccine** 1996 Jun;14(9):868–78

[Stable expression of heterologous proteins in salmonella: problems and approaches to their designing] Abaev IV, et al. **Vestn Ross Akad Med Nauk** 1997;(6):48–52 (75 ref.) (Eng. Abstr.) **(Rus)**

[Recombinant plasmids carrying yersinia pestis fra–operon: specific features of genetic transmission, inheritance and expression in attenuated enterobacterial cells] Fursova NK, et al. **Vestn Ross Akad Med Nauk** 1997;(6):44–7 (Eng. Abstr.) **(Rus)**

[Stress proteins in bacteria] Basnak'ian IA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov–Dec; (6):99–103 (48 ref.) **(Rus)**

[Fluoroquinolone and aminoglycoside resistance in chromosomal cephalosporinase–overproducing gram–negative bacilli strains with inducible beta–lactamase] López–Yeste M, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):211–4 (Eng. Abstr.) **(Spa)**

BLOOD

Risk for gastric cancer in people with CagA positive or CagA negative Helicobacter pylori infection [see comments] Parsonnet J, et al. **Gut** 1997 Mar;40(3):297–301. Comment in: ACP J Club 1997 Sep–Oct;127(2):50.

Country–specific constancy by age in cagA+ proportion of Helicobacter pylori infections. Pérez–Pérez GI, et al. **Int J Cancer** 1997 Jul 29;72(3):453–6

Anti–Hu antibody in a patient with Lambert–Eaton myasthenic syndrome and early detection of small cell lung cancer. Tomiyasu K, et al. **Intern Med** 1995 Nov; 34(11):1082–5

Serum CagA antibodies in asymptomatic subjects and patients with peptic ulcer [letter] Fraggetta F, et al. **J Clin Pathol** 1997 Jul;50(7):620

Non–specific serum binding to streptavidin in a biotinylated peptide based enzyme immunoassay. Norton R, et al. **J Immunoassay** 1996 Aug;17(3):195–204

Expression of aggregation–prone recombinant proteins at low temperatures: a comparative study of the Escherichia coli cspA and tac promoter systems. Vasina JA, et al. **Protein Expr Purif** 1997 Mar;9(2):211–8

CHEMISTRY

Structure and function of subtilisin BPN' as studied through crystallographic studies on a series of its complexes with genetically engineered proteinaceous inhibitor SSI. Nonaka T, et al. **Adv Exp Med Biol** 1996;379:21–7 (24 ref.)

Solid medium labeling applied to two–dimensional gel electrophoresis. Miller BS, et al. **Anal Biochem** 1997 Feb 15;245(2):245–7

Sequestration stabilizes lac repressor–DNA complexes during gel electrophoresis. Vossen KM, et al. **Anal Biochem** 1997 Feb 1;245(1):85–92

Coupling of MALDI–TOF mass analysis to the separation of biotinylated peptides by magnetic streptavidin beads. Girault S, et al. **Anal Chem** 1996 Jul 1;68(13):2122–6

Identification of export proteins from Mycobacterium tuberculosis that interact with SecA. Owens MU, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:240–1

Molecular engineering of streptavidin. Sano T, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:383–90

Posttranslational modifications of meningococcal pili. Identification of a common trisaccharide substitution on variant pilins of strain C311. Virji M, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:53–64

Electron paramagnetic resonance and nuclear magnetic resonance studies of class I ribonucleotide reductase. Gräslund A, et al. **Annu Rev Biophys Biomol Struct** 1996; 25:259–86 (64 ref.)

The dcr gene family of Desulfovibrio: implications from the sequence of dcrH and phylogenetic comparison with other mcp genes. Deckers HM, et al. **Antonie Van Leeuwenhoek** 1996 Jul;70(1):21–9

Differentiation of species in the Bacillus brevis group and the Bacillus aneurinolyticus group based on the electrophoretic whole–cell protein pattern. Shida O, et al. **Antonie Van Leeuwenhoek** 1996 Jul;70(1):31–9

Molecular biology and vaccine aspects of bacterial immunoglobulin A1 proteases. Lomholt H. **APMIS Suppl** 1996;62:5–28 (125 ref.)

Cloning, sequencing, and expression of the gene encoding amylopullulanase from Pyrococcus furiosus and biochemical characterization of the recombinant enzyme. Dong G, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3577–84

Preparation and properties of a 3,4–dihydroxycinnamic acid chromophore variant of the photoactive yellow protein. Devanathan S, et al. **Arch Biochem Biophys** 1997 Apr 1; 340(1):83–9

Mapping the mechanism–based modification sites in L–aspartase from Escherichia coli. Giorgianni F, et al. **Arch Biochem Biophys** 1997 May 15;341(2):329–36

Identification of proteolipid from an extremely halophilic archaeon Halobacterium salinarum as an N,N'–dicyclohexyl–carbodiimide binding subunit of ATP synthase. Ihara K, et al. **Arch Biochem Biophys** 1997 May 15;341(2):267–72

Immunological mimicry between retinal S–antigen and group A streptococcal M proteins. Lerner MP, et al. **Autoimmunity** 1995;22(2):95–106

Isolation, primary sequence determination, and disulfide bond structure of cyanovirin–N, an anti–HIV (human immunodeficiency virus) protein from the cyanobacterium Nostoc ellipsosporum. Gustafson KR, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):223–8

Conformational transition of DnaA protein by ATP: structural analysis of DnaA protein, the initiator of Escherichia coli chromosome replication. Kubota T, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):130–5

Precise limits of the N–terminal domain of DnaB helicase determined by NMR spectroscopy. Miles CS, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):126–30

Analysis of sequence requirements for biological activity of cyanovirin–N, a potent HIV (human immunodeficiency virus)–inactivating protein. Mori T, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):218–22

ABM–1 and ABM–2 homology sequences: consensus docking sites for actin–based motility defined by oligoproline regions in Listeria ActA surface protein and human VASP. Purich DL, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):686–91

Regulation of translation termination: conserved structural motifs in bacterial and eukaryotic polypeptide release factors. Nakamura Y, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1113–22 (38 ref.)

Structures of prokaryotic ribosomal proteins: implications for RNA binding and evolution. Ramakrishnan V, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):979–86 (30 ref.)

Effects of temperature and SDS on the structure of beta–glycosidase from the thermophilic archaeon Sulfolobus solfataricus. D'auria S, et al. **Biochem J** 1997 May 1;323 (Pt 3):833–40

The ATP synthase gamma subunit provides the primary site of activation of the chloroplast enzyme: experiments with a chloroplast–like Synechocystis 6803 mutant. Krenn BE, et al. **Biochem J** 1997 May 1;323 (Pt 3):841–5

Biochemical characterization of the arginine–specific proteases of Porphyromonas gingivalis W50 suggests a common precursor. Rangarajan M, et al. **Biochem J** 1997 May 1;323 (Pt 3):701–9

Thermal denaturation of glutathione reductase from cyanobacterium Spirulina maxima. Rojo–Domínguez A, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):631–9

Structure of the N–terminus of the Escherichia coli ribosomal

protein L7/L12. Todorova RT. **Biochem Mol Biol Int** 1996 Jul;39(4):657–64

Equilibrium and pre-equilibrium fluorescence studies on the interaction between protein L and kappa light chain. Beckingham JA, et al. **Biochem Soc Trans** 1997 Feb; 25(1):38S

Human diadenosine 5',5"'-P1,P4-tetraphosphate pyrophosphohydrolase (Ap4A hydrolase) possesses a MutT motif. Thorne NM, et al. **Biochem Soc Trans** 1996 May; 24(2):209S

Thermodynamics of the complex protein unfolding reaction of barstar. Agashe VR, et al. **Biochemistry** 1997 Oct 7; 36(40):12288–95

De novo design of native proteins: characterization of proteins intended to fold into antiparallel, rop-like, four-helix bundles. Betz SF, et al. **Biochemistry** 1997 Mar 4;36(9):2450–8

Characterization of an autoreduction pathway for the [Fe4S4]3+ cluster of mutant Chromatium vinosum high-potential iron proteins. Site-directed mutagenesis studies to probe the role of phenylalanine 66 in defining the stability of the [Fe4S4] center provide evidence for oxidative degradation via a [Fe3S4] cluster. Bian S, et al. **Biochemistry** 1996 Nov 19;35(46):14544–52

Coiled-coil structure of group A streptococcal M proteins. Different temperature stability of class A and C proteins by hydrophobic-nonhydrophobic amino acid substitutions at heptad positions a and d. Cedervall T, et al. **Biochemistry** 1997 Apr 22;36(16):4987–94

Oligomerization of the amide sensor protein AmiC by x-ray and neutron scattering and molecular modeling. Chamberlain D, et al. **Biochemistry** 1997 Jul 1; 36(26):8020–9

Domain interactions of the peripheral preprotein Translocase subunit SecA. den Blaauwen T, et al. **Biochemistry** 1996 Sep 17;35(37):11194–2004

A 1H NMR study of the paramagnetic active site of the CuA variant of amicyanin. Dennison C, et al. **Biochemistry** 1997 Mar 18;36(11):3262–9

Dissecting contributions to the thermostability of Pyrococcus furiosus rubredoxin: beta-sheet chimeras. Eidsness MK, et al. **Biochemistry** 1997 Aug 26;36(34):10406–13

High-resolution NMR structure and backbone dynamics of the Bacillus subtilis response regulator, Spo0F: implications for phosphorylation and molecular recognition. Feher VA, et al. **Biochemistry** 1997 Aug 19;36(33):10015–25

Thermodynamic characterization of the reversible, two-state unfolding of maltose binding protein, a large two-domain protein. Ganesh C, et al. **Biochemistry** 1997 Apr 22; 36(16):5020–8

Identification by NMR of the binding surface for the histidine-containing phosphocarrier protein HPr on the N-terminal domain of enzyme I of the Escherichia coli phosphotransferase system. Garrett DS, et al. **Biochemistry** 1997 Apr 15;36(15):4393–8

Urea and thermal equilibrium denaturation studies on the dimerization domain of Escherichia coli Trp repressor. Gloss LM, et al. **Biochemistry** 1997 May 13;36(19):5612–23

C repeats of teh streptococcal M1 protein achieve the human serum albumin binding ability by flanking regions which stabilize the coiled-coil conformation. Gubbe K, et al. **Biochemistry** 1997 Jul 1;36(26):8107–13

Membrane topology of the di- and tripeptide transport protein of Lactococcus lactis. Hagting A, et al. **Biochemistry** 1997 Jun 3;36(22):6777–85

Rotational and conformational dynamics of Escherichia coli ribosomal protein L7/L12. Hamman BD, et al. **Biochemistry** 1996 Dec 24;35(51):16672–9

Dimer/monomer equilibrium and domain separations of Escherichia coli ribosomal protein L7/L12. Hamman BD, et al. **Biochemistry** 1996 Dec 24;35(51):16680–6

Quenching of tryptophan fluorescence by the active-site disulfide bridge in the DsbA protein from Escherichia coli. Hennecke J, et al. **Biochemistry** 1997 May 27; 36(21):6391–400

Structural characterization of Paracoccus denitrificans cytochrome c peroxidase and assignment of the low and high potential heme sites. Hu W, et al. **Biochemistry** 1997 Jul 1;36(26):7958–66

Use of 1H longitudinal relaxation times in the solution structure of paramagnetic proteins. Application to [4Fe-4S] proteins. Huber JG, et al. **Biochemistry** 1996 Oct 1; 35(39):12705–11

Photoreaction cycle of photoactive yellow protein from Ectothiorhodospira halophila studied by low-temperature spectroscopy. Imamoto Y, et al. **Biochemistry** 1996 Nov 12;35(45):14047–53

Comparison of backbone dynamics of reduced and oxidized Escherichia coli glutaredoxin-1 using 15N NMR relaxation measurements. Kelley JJ 3rd, et al. **Biochemistry** 1997 Apr 22;36(16):5029–44

Determination of a transmembrane segment using cysteine-scanning mutants of transposon Tn10-encoded metal-tetracycline/H+ antiporter. Kimura T, et al. **Biochemistry** 1996 Dec 10;35(49):15896–9

Membrane localization, topology, and mutual stabilization of the rnfABC gene products in Rhodobacter capsulatus and implications for a new family of energy-coupling NADH oxidoreductases. Kumagai H, et al. **Biochemistry** 1997 May 6;36(18):5509–21

Solution structure of the quaternary MutT-M2+-AMPCPP-M2+ complex and mechanism of its pyrophosphohydrolase action. Lin J, et al. **Biochemistry** 1997 Feb 11;36(6):1199–211

Characterization of ferrous FixL-nitric oxide adducts by resonance Raman spectroscopy. Lukat-Rodgers GS, et al. **Biochemistry** 1997 Apr 8;36(14):4178–87

Folding of tryptophan mutants of barstar: evidence for an initial hydrophobic collapse on the folding pathway. Nath U, et al. **Biochemistry** 1997 Jul 15;36(28):8602–10

Circular dichroism of denatured barstar suggests residual structure,. Nölting B, et al. **Biochemistry** 1997 Aug 12; 36(32):9899–905

Crystal structure of an ecotin-collagenase complex suggests a model for recognition and cleavage of the collagen triple helix. Perona JJ, et al. **Biochemistry** 1997 May 6; 36(18):5381–92

High-resolution structure of the diphtheria toxin repressor complexed with cobalt and manganese reveals an SH3-like third domain and suggests a possible role of phosphate as co-corepressor. Qiu X, et al. **Biochemistry** 1996 Sep 24; 35(38):12292–302

Kinetics of folding of the IgG binding domain of peptostreptococcal protein L. Scalley ML, et al. **Biochemistry** 1997 Mar 18;36(11):3373–82

Thermodynamic properties of an extremely rapid protein folding reaction. Schindler T, et al. **Biochemistry** 1996 Dec 24;35(51):16833–42

Construction and characterization of monomeric tryptophan repressor: a model for an early intermediate in the folding of a dimeric protein. Shao X, et al. **Biochemistry** 1997 Aug 12;36(32):9941–9

Peptide binding in OppA, the crystal structures of the periplasmic oligopeptide binding protein in the unliganded form and in complex with lysyllysine. Sleigh SH, et al. **Biochemistry** 1997 Aug 12;36(32):9747–58

Backbone and side chain dynamics of lac repressor headpiece (1–56) and its complex with DNA. Slijper M, et al. **Biochemistry** 1997 Jan 7;36(1):249–54

Factors influencing redox thermodynamics and electron self-exchange for the [Fe4S4] cluster in Chromatium vinosum high potential iron protein: the role of core aromatic residues in defining cluster redox chemistry. Soriano A, et al. **Biochemistry** 1996 Sep 24;35(38):12479–86

Structures of the reduced and mercury-bound forms of MerP, the periplasmic protein from the bacterial mercury detoxification system. Steele RA, et al. **Biochemistry** 1997 Jun 10;36(23):6885–95

Solid-state REDOR NMR distance measurements at the ligand site of a bacterial chemotaxis membrane receptor. Wang J, et al. **Biochemistry** 1997 Feb 18;36(7):1699–703

Glu46 donates a proton to the 4-hydroxycinnamate anion chromophore during the photocycle of photoactive yellow protein. Xie A, et al. **Biochemistry** 1996 Nov 26; 35(47):14671–8

Overexpression in E. coli of the complete petH gene product from Anabaena: purification and properties of a 49 kDa ferredoxin-NADP+ reductase. Martínez-Júlvez M, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):200–6

Secondary structure and thermostability of the photosystem II manganese-stabilizing protein of the thermophilic cyanobacterium Synechococcus elongatus. Sonoyama M, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):167–70

Structural model for the selenocysteine-specific elongation factor SelB. Hilgenfeld R, et al. **Biochimie** 1996; 78(11–12):971–8

Biotin-pyrene conjugates with poly(ethylene glycol) spacers are convenient fluorescent probes for avidin and streptavidin. Marek M, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):560–6

Towards an understanding of the structural and functional properties of MscL, a mechanosensitive channel in bacteria. Blount P, et al. **Biol Cell** 1996;87(1–2):1–8 (58 ref.)

One century of protein crystallography: the phycobiliproteins. Betz M. **Biol Chem** 1997 Mar-Apr; 378(3–4):167–76 (64 ref.)

Characterization of the preprotein translocase of the outer mitochondrial membrane by blue native electrophoresis. Dekker PJ, et al. **Biol Chem** 1996 Jul-Aug;377(7–8):535–8

Time-resolved fluorescence of tryptophan synthase. Vaccari S, et al. **Biophys Chem** 1996 Aug 30;61(1):9–22

Adhesion-induced domain formation by interplay of long-range repulsion and short-range attraction force: a model membrane study. Albersdörfer A, et al. **Biophys J** 1997 Jul;73(1):245–57

Reversible adsorption and nonreversible insertion of Escherichia coli alpha-hemolysin into lipid bilayers. Bakás L, et al. **Biophys J** 1996 Oct;71(4):1869–76

The consistency of large concerted motions in proteins in molecular dynamics simulations. de Groot BL, et al. **Biophys J** 1996 Oct;71(4):1707–13

Protein turbines. I: The bacterial flagellar motor. Elston TC, et al. **Biophys J** 1997 Aug;73(2):703–21

Interactions of Escherichia coli primary replicative helicase DnaB protein with nucleotide cofactors. Jezewska MJ, et al. **Biophys J** 1996 Oct;71(4):2075–86

Electron paramagnetic resonance studies of the soluble CuA protein from the cytochrome ba3 of Thermus thermophilus. Karpefors M, et al. **Biophys J** 1996 Nov;71(5):2823–9

Atomic force microscope imaging contrast based on molecular recognition. Ludwig M, et al. **Biophys J** 1997 Jan;72(1):445–8

Direct observation of protein secondary structure in gas vesicles by atomic force microscopy. McMaster TJ, et al. **Biophys J** 1996 May;70(5):2432–36

Protein folding thermodynamics applied to the photocycle of the photoactive yellow protein. Van Brederode ME, et al. **Biophys J** 1996 Jul;71(1):365–80

Redox effects on the excited-state lifetime in chlorosomes and bacteriochlorophyll c oligomers. van Noort PI, et al. **Biophys J** 1997 Jan;72(1):316–25

Structure and dynamics of the DNA binding protein HU from Bacillus stearothermophilus by NMR spectroscopy. Boelens R, et al. **Biopolymers** 1996;40(5):553–9

Use of graph theory for secondary structure recognition and sequential assignment in heteronuclear (13C, 15N) NMR spectra: application to HU protein from Bacillus stearothermophilus. van Geerestein-Ujah EC, et al. **Biopolymers** 1996 Nov;39(5):691–707

The solution structure of the S1 RNA binding domain: a member of an ancient nucleic acid-binding fold. Bycroft M, et al. **Cell** 1997 Jan 24;88(2):235–42

In vivo observation of polypeptide flux through the bacterial chaperonin system. Ewalt KL, et al. **Cell** 1997 Aug 8; 90(3):491–500

Protein-protein communication: structural model of the repression complex formed by CytR and the global regulator CRP. Kallipolitis BH, et al. **Cell** 1997 Jun 27; 89(7):1101–9

Insights into multistep phosphorelay from the crystal structure of the C-terminal HPt domain of ArcB. Kato M, et al. **Cell** 1997 Mar 7;88(5):717–23

The C-terminal domain of TolA is the coreceptor for filamentous phage infection of E. coli. Riechmann L, et al. **Cell** 1997 Jul 25;90(2):351–60

Physical interactions between members of the DnaK chaperone machinery: characterization of the DnaK.GrpE complex. Reid KL, et al. **Cell Stress Chaperones** 1996 Jun; 1(2):127–37

Assignment of the hyperfine-shifted 1H-NMR signals of the heme in the oxygen sensor FixL from Rhizobium meliloti. Bertolucci C, et al. **Chem Biol** 1996 Jul;3(7):561–6

Epitope mapping of the variable repetitive region with the MB antigen of Ureaplasma urealyticum. Zheng X, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):774–8

Biochemical evidence for the presence of an unconventional actin protein in a prokaryotic organism. Labbé JP, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jul; 114(3):287–93

The cellulosome: an exocellular, multiprotein complex specialized in cellulose degradation. Béguin P, et al. **Crit Rev Biochem Mol Biol** 1996 Jun;31(3):201–36 (177 ref.)

Laue crystallography: Lights! Camera! action! Farber GK. **Curr Biol** 1997 Jun 1;7(6):R352–4 (6 ref.)

Protein structure: proton-pumping oxidases. Gennis RB, et al. **Curr Biol** 1996 Jan 1;6(1):36–8 (10 ref.)

Receptor signaling: dimerization and beyond. Stock J. **Curr Biol** 1996 Jul 1;6(7):825–7 (18 ref.)

DNA-protein interactions: IHF—the master bender. Travers A. **Curr Biol** 1997 Apr 1;7(4):R252–4 (27 ref.)

Di-iron-carboxylate proteins. Nordlund P, et al. **Curr Opin Struct Biol** 1995 Dec;5(6):758–66 (54 ref.)

Bacterial chemotaxis: a field in motion. Stock AM, et al. **Curr Opin Struct Biol** 1995 Dec;5(6):744–51 (56 ref.)

A strategy for multiple immunophenotyping by image cytometry: model studies using latex microbeads labeled with seven streptavidin-bound fluorochromes. Gothot A, et al. **Cytometry** 1996 Jul 1;24(3):214–25

Sodium dodecyl sulfate-polyacrylamide gel electrophoretic method for assessing the quaternary state and comparative thermostability of avidin and streptavidin. Bayer EA, et al. **Electrophoresis** 1996 Aug;17(8):1319–24

Mapping of Chlamydia trachomatis proteins by immobiline-polyacrylamide two-dimensional electrophoresis: spot identification by N-terminal sequencing and immunoblotting. Bini L, et al. **Electrophoresis** 1996 Jan;17(1):185–90

Characterization of thioredoxins by sodium dodecyl sulfate-slab gel electrophoresis and high performance capillary electrophoresis. Bunik V, et al. **Electrophoresis** 1997 May;18(5):762–6

Mapping and identification of Brucella melitensis proteins by two-dimensional electrophoresis and microsequencing. Teixeira-Gomes AP, et al. **Electrophoresis** 1997 Jan; 18(1):156–62

TolA central domain interacts with Escherichia coli porins. Derouiche R, et al. **EMBO J** 1996 Dec 2;15(23):6408–15

A novel role of ImmE7 in the autoregulatory expression of the ColE7 operon and identification of possible RNase active sites in the crystal structure of dimeric ImmE7. Hsieh SY, et al. **EMBO J** 1997 Mar 17;16(6):1444–54

Identification of two regions in the N-terminal domain of ActA involved in the actin comet tail formation by Listeria monocytogenes. Lasa I, et al. **EMBO J** 1997 Apr 1; 16(7):1531–40

From genetic to structural characterization of a new class of RNA-binding domain within the SacY/BglG family of antiterminator proteins. Manival X, et al. **EMBO J** 1997 Aug 15;16(16):5019–29

The Tn7 transposase is a heteromeric complex in which DNA breakage and joining activities are distributed between different gene products. Sarnovsky RJ, et al. **EMBO J** 1996 Nov 15;15(22):6348–61

The RuvC protein dimer resolves Holliday junctions by a dual incision mechanism that involves base-specific contacts. Shah R, et al. **EMBO J** 1997 Mar 17;

16(6):1464–72
Crystal structure of a bacterial family–III cellulose–binding domain: a general mechanism for attachment to cellulose. Tormo J, et al. **EMBO J** 1996 Nov 1;15(21):5739–51
Anionic phospholipids are determinants of membrane protein topology. van Klompenburg W, et al. **EMBO J** 1997 Jul 16;16(14):4261–6
Crystal structure of a new RNA–binding domain from the antiterminator protein SacY of Bacillus subtilis. van Tilbeurgh H, et al. **EMBO J** 1997 Aug 15;16(16):5030–6
Structure–function analysis of the Escherichia coli GrpE heat shock protein. Wu B, et al. **EMBO J** 1996 Sep 16; 15(18):4806–16
Resonance assignment and structural analysis of acid denatured E. coli [U–15N]–glutaredoxin 3: use of 3D 15N–HSQC–(TOCSY–NOESY)–15N–HSQC. Nordstrand K, et al. **Eur Biophys J** 1996;24(3):179–84
1H, 15N and 13C NMR assignments, secondary structure and overall topology of the Escherichia coli GlgS protein. Beglova N, et al. **Eur J Biochem** 1997 Jun 1;246(2):301–10
The solution structure refinement of the paramagnetic reduced high–potential iron–sulfur protein I from Ectothiorhodospira halophila by using stable isotope labeling and nuclear relaxation. Bertini I, et al. **Eur J Biochem** 1996 Oct 15;241(2):440–52
Unusual characteristics of amino–terminal and hydrophobic domains in nuclear–encoded thylakoid signal peptides. Brink S, et al. **Eur J Biochem** 1997 Apr 15;245(2):340–8
Comparison of the diphtheria mutant toxin, CRM197, with a Haemophilus influenzae type–b polysaccharide–CRM197 conjugate by optical spectroscopy. Crane DT, et al. **Eur J Biochem** 1997 Jun 1;246(2):320–7
Mutations in the 1.1 subdomain of Escherichia coli sigma factor sigma70 and disruption of its overall structure. Gopal V, et al. **Eur J Biochem** 1997 Mar 1;244(2):613–8
An internal FK506–binding domain is the catalytic core of the prolyl isomerase activity associated with the Bacillus subtilis trigger factor. Göthel SF, et al. **Eur J Biochem** 1997 Feb 15;244(1):59–65
Cloning and expression of the gene for serine–glyoxylate aminotransferase from an obligate methylotroph Hyphomicrobium methylovorum GM2. Hagishita T, et al. **Eur J Biochem** 1996 Oct 1;241(1):1–5
Methanol:coenzyme M methyltransferase from Methanosarcina barkeri. Purification, properties and encoding genes of the corrinoid protein MT1. Sauer K, et al. **Eur J Biochem** 1997 Feb 1;243(3):670–7
The primary structure of Rhodoferax fermentans high–potential iron–sulfur protein, an electron donor to the photosynthetic reaction center. Van Driessche G, et al. **Eur J Biochem** 1997 Mar 1;244(2):371–7
Spectroscopic studies of the C–terminal secretion signal of the Serratia marcescens haem acquisition protein (HasA) in various membrane–mimetic environments. Wolff N, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):400–7
Definition of the mitogenic factor (MF) as a novel streptococcal superantigen that is different from streptococcal pyrogenic exotoxins A, B, and C. Toyosaki T, et al. **Eur J Immunol** 1996 Nov;26(11):2693–701
Remarkably slow folding of a small protein. Aronsson G, et al. **FEBS Lett** 1997 Jul 14;411(2–3):359–64
Rapid estimation of relative amide proton exchange rates of 15 N–labelled proteins by a straightforward water selective NOESY–HSQC experiment. Böckmann A, et al. **FEBS Lett** 1996 Apr 1;383(3):191–5
Isolated domain II and III from the Bacillus thuringiensis Cry1Ab delta–endotoxin binds to lepidopteran midgut membranes. Flores H, et al. **FEBS Lett** 1997 Sep 8; 414(2):313–8
Identification of potential ferric binding residues in the iron–binding protein of pathogenic Neisseria meningitidis through structure–based multiple sequence alignments. Gorinsky B, et al. **FEBS Lett** 1997 Aug 18;413(2):364–70
Core mutants of the immunoglobulin binding domain of streptococcal protein G: stability and structural integrity. Gronenborn AM, et al. **FEBS Lett** 1996 Dec 2; 398(2–3):312–6
Identification and characterization of a cyanobacterial DnaX intein. Liu XQ, et al. **FEBS Lett** 1997 May 26;408(3):311–4
Isolation and characterization of biliprotein aggregates from Acaryochloris marina, a Prochloron–like prokaryote containing mainly chlorophyll d. Marquardt J, et al. **FEBS Lett** 1997 Jun 30;410(2–3):428–32
Electron spin echo envelope modulation studies of the semiquinone anion radical of cholesterol oxidase from Brevibacterium sterolicum. Medina M, et al. **FEBS Lett** 1997 Jan 3;400(2):247–51
Electrospray ionization mass spectrometry analysis of the apo– and metal–substituted forms of the Fur protein. Michaud–Soret I, et al. **FEBS Lett** 1997 Aug 25; 413(3):473–6
Mycothiol, 1–O–(2'–[N–acetyl–L–cysteinyl]amido–2'–deoxy–alpha–D–glucopyranosyl)–D– myo–inositol, is the factor of NAD/factor–dependent formaldehyde dehydrogenase. Misset–Smits M, et al. **FEBS Lett** 1997 Jun 9;409(2):221–2
Structure of a methionine–rich segment of Escherichia coli Ffh protein. Oh DB, et al. **FEBS Lett** 1996 Oct 21; 395(2–3):160–4
Biochemical characterization of Pkn2, a protein Ser/Thr kinase from Myxococcus xanthus, a Gram–negative developmental bacterium. Udo H, et al. **FEBS Lett** 1997 Jan 3;400(2):188–92
Interaction between the CheY response regulator and the histidine–containing phosphotransfer (HPt) domain of the ArcB sensory kinase in Escherichia coli. Yaku H, et al. **FEBS Lett** 1997 May 26;408(3):337–40
Partial characterization of the cohemolytic factor produced by Streptococcus uberis and comparison with the CAMP–factor. Lopes MF, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3–4):205–12
Purification and partial characterization of a novel human platelet aggregation factor in the extracellular products of Streptococcus mitis, strain Nm–65. Ohkuni H, et al. **FEMS Immunol Med Microbiol** 1997 Feb;17(2):121–9
Fimbrial adhesins: similarities and variations in structure and biogenesis. Smyth CJ, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):127–39 (65 ref.)
The Escherichia coli K99 periplasmic chaperone FanE is a monomeric protein. Mol O, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):185–9
Cloning and characterization of the groE locus from Actinobacillus pleuropneumoniae. Vézina G, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):11–6
Biochemistry of S–layers. Messner P, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):25–46 (92 ref.)
Role of a nonnative interaction in the folding of the protein G B1 domain as inferred from the conformational analysis of the alpha–helix fragment. Blanco FJ, et al. **Fold Des** 1997;2(2):123–33
Analysis of the effect of local interactions on protein stability. Muñoz V, et al. **Fold Des** 1996;1(3):167–78
Cloning and characterization of the gene (empV) encoding extracellular metalloprotease from Vibrio vulnificus. Chuang YC, et al. **Gene** 1997 Apr 21;189(2):163–8
Probing the structure of catalase HPII of Escherichia coli–a review. Loewen P. **Gene** 1996 Nov 7;179(1):39–44
Characterization of csgA, a new member of the forespore–expressed sigmaG–regulon from Bacillus subtilis. Shcheptov M, et al. **Gene** 1997 Jan 3;184(1):133–40
Characterisation of a lipoprotein in Mycobacterium bovis (BCG) with sequence similarity to the secreted protein MPB70. Vosloo W, et al. **Gene** 1997 Mar 25;188(1):123–8
Phylogenetic distribution of the global regulatory gene csrA among eubacteria. White D, et al. **Gene** 1996 Dec 5; 182(1–2):221–3
The directionality of RuvAB–mediated branch migration: in vitro studies with three–armed junctions. Hiom K, et al. **Genes Cells** 1996 May;1(5):443–51
Bacterial glycoproteins. Messner P. **Glycoconj J** 1997 Jan; 14(1):3–11 (114 ref.)
The central variable V2 region of the CS31A major subunit is involved in the receptor–binding domain. Di Martino P, et al. **Infect Immun** 1997 Feb;65(2):609–16
Isolation and characterization of a minor fimbria from Porphyromonas gingivalis. Hamada N, et al. **Infect Immun** 1996 Nov;64(11):4788–94
Prelytic and lytic conformations of erythrocyte–associated Escherichia coli hemolysin. Moayeri M, et al. **Infect Immun** 1997 Jun;65(6):2233–9
Topology of Legionella pneumophila DotA: an inner membrane protein required for replication in macrophages. Roy CR, et al. **Infect Immun** 1997 Feb;65(2):571–8
Characterization of Shigella type 1 fimbriae: expression, FimA sequence, and phase variation. Snellings NJ, et al. **Infect Immun** 1997 Jun;65(6):2462–7
Effects of Mg2+ and denaturants on the unfolding pattern of DNA–T––a replication protein of E. coli. Antony T, et al. **Int J Biol Macromol** 1996 Aug;19(2):91–7
Characterization of three protein components required for functional reconstitution of the epoxide carboxylase multienzyme complex from Xanthobacter strain Py2. Allen JR, et al. **J Bacteriol** 1997 May;179(10):3110–5
The lac operon of Lactobacillus casei contains lacT, a gene coding for a protein of the Bg1G family of transcriptional antiterminators. Alpert CA, et al. **J Bacteriol** 1997 Mar; 179(5):1555–62
Phylogenetic relationships of Bacillus thuringiensis delta–endotoxin family proteins and their functional domains. Bravo A. **J Bacteriol** 1997 May;179(9):2793–801 (54 ref.)
A topological model for the general aromatic amino acid permease, AroP, of Escherichia coli. Cosgriff AJ, et al. **J Bacteriol** 1997 May;179(10):3317–23
Membrane topology of the metal–tetracycline/H+ antiporter TetA(K) from Staphylococcus aureus. Ginn SL, et al. **J Bacteriol** 1997 Jun;179(11):3786–9
Domain–swapping analysis of FtsI, FtsL, and FtsQ, bitopic membrane proteins essential for cell division in Escherichia coli. Guzman LM, et al. **J Bacteriol** 1997 Aug; 179(16):5094–103
Use of phoA and lacZ fusions to study the membrane topology of ProW, a component of the osmoregulated ProU transport system of Escherichia coli. Haardt M, et al. **J Bacteriol** 1996 Sep;178(18):5370–81
Structure/function analysis of the PII signal transduction protein of Escherichia coli: genetic separation of interactions with protein receptors. Jiang P, et al. **J Bacteriol** 1997 Jul;179(13):4342–53
Mutations affecting substrate specificity of the Bacillus subtilis multidrug transporter Bmr. Klyachko KA, et al. **J Bacteriol** 1997 Apr;179(7):2189–93
Regions of Escherichia coli TonB and FepA proteins essential for in vivo physical interactions. Larsen RA, et al. **J Bacteriol** 1997 May;179(10):3213–21
2–aminophenol 1,6–dioxygenase: a novel aromatic ring cleavage enzyme purified from Pseudomonas pseudoalcaligenes JS45. Lendenmann U, et al. **J Bacteriol** 1996 Nov;178(21):6227–32
Binding of L–branched–chain amino acids causes a conformational change in BkdR. Madhusudhan KT, et al. **J Bacteriol** 1997 Jan;179(1):276–9
In vivo cross–linking of the SecA and SecY subunits of the Escherichia coli preprotein translocase. Manting EH, et al. **J Bacteriol** 1997 Sep;179(18):5699–704
Protein folding in the bacterial periplasm. Missiakas D, et al. **J Bacteriol** 1997 Apr;179(8):2465–71 (88 ref.)
Two types of novel dipeptidyl aminopeptidases from Pseudomonas sp. strain WO24. Ogasawara W, et al. **J Bacteriol** 1996 Nov;178(21):6288–95
The 75–kilodalton antigen of Bartonella bacilliformis is a structural homolog of the cell division protein FtsZ. Padmalayam I, et al. **J Bacteriol** 1997 Jul;179(14):4545–52
An extreme clockwise switch bias mutation in fliG of Salmonella typhimurium and its suppression by slow–motile mutations in motA and motB. Togashi F, et al. **J Bacteriol** 1997 May;179(9):2994–3003
Purification and properties of a low–redox–potential tetraheme cytochrome c3 from Shewanella putrefaciens. Tsapin AI, et al. **J Bacteriol** 1996 Nov;178(21):6386–8
Identification and characterization of a basic cell surface–located protein from Lactobacillus fermentum BR11. Turner MS, et al. **J Bacteriol** 1997 May; 179(10):3310–6
Two genes encoding serine protease homologues in Serratia marcescens and characterization of their products in Escherichia coli. Ohnishi Y, et al. **J Biochem (Tokyo)** 1997 May;121(5):902–13
The mitochondrial hsp70 chaperone system. Effect of adenine nucleotides, peptide substrate, and mGrpE on the oligomeric state of mhsp70. Azem A, et al. **J Biol Chem** 1997 Aug 15;272(33):20901–6
The MutT proteins or "Nudix" hydrolases, a family of versatile, widely distributed, "housecleaning" enzymes. Bessman MJ, et al. **J Biol Chem** 1996 Oct 11; 271(41):25059–62 (47 ref.)
A novel non–heme iron–binding ferritin related to the DNA–binding proteins of the Dps family in Listeria innocua. Bozzi M, et al. **J Biol Chem** 1997 Feb 7; 272(6):3259–65
Interaction of biotin with streptavidin. Thermostability and conformational changes upon binding. González M, et al. **J Biol Chem** 1997 Apr 25;272(17):11288–94
Amino acid sequence and molecular structure of an alkaline amylopullulanase from Bacillus that hydrolyzes alpha–1,4 and alpha–1,6 linkages in polysaccharides at different active sites. Hatada Y, et al. **J Biol Chem** 1996 Sep 27; 271(39):24075–83
Purification, reconstitution, and characterization of KdpD, the turgor sensor of Escherichia coli. Jung K, et al. **J Biol Chem** 1997 Apr 18;272(16):10847–52
In crystals of complexes of streptavidin with peptide ligands containing the HPQ sequence the pKa of the peptide histidine is less than 3.0. Katz BA, et al. **J Biol Chem** 1997 May 16;272(20):13220–8
Domain organization of Escherichia coli transcript cleavage factors GreA and GreB. Koulich D, et al. **J Biol Chem** 1997 Mar 14;272(11):7201–10
Spectral tuning, fluorescence, and photoactivity in hybrids of photoactive yellow protein, reconstituted with native or modified chromophores. Kroon AR, et al. **J Biol Chem** 1996 Dec 13;271(50):31949–56
Characterization of an iron–sulfur flavoprotein from Methanosarcina thermophila. Latimer MT, et al. **J Biol Chem** 1996 Sep 27;271(39):24023–8
NMR studies on the flexibility of the poliovirus C3 linear epitope inserted into different sites of the maltose–binding protein. Lecroisey A, et al. **J Biol Chem** 1997 Jan 3; 272(1):362–8
Photocross–linking of the NH2–terminal region of Taq MutS protein to the major groove of a heteroduplex DNA. Malkov VA, et al. **J Biol Chem** 1997 Sep 19; 272(38):23811–7
Identification of domains on the extrinsic 33–kDa protein possibly involved in electrostatic interaction with photosystem II complex by means of chemical modification. Miura T, et al. **J Biol Chem** 1997 Feb 7; 272(6):3788–98
Domain structure of Thermus thermophilus UvrB protein. Similarity in domain structure to a helicase. Nakagawa N, et al. **J Biol Chem** 1997 Sep 5;272(36):22703–13
Combinatorial mutations of lac repressor. Stability of monomer–monomer interface is increased by apolar substitution at position 84. Nichols JC, et al. **J Biol Chem** 1997 Jul 25;272(30):18550–7
Use of fluorescence probes to monitor function of the subunit proteins of the MexA–MexB–oprM drug extrusion machinery in Pseudomonas aeruginosa. Ocaktan A, et al. **J Biol Chem** 1997 Aug 29;272(35):21964–9
Mutations at domain II, loop 3, of Bacillus thuringiensis CryIAa and CryIAb delta–endotoxins suggest loop 3 is involved in initial binding to lepidopteran midguts. Rajamohan F, et al. **J Biol Chem** 1996 Oct 11; 271(41):25220–6
Topology of the integral membrane form of Escherichia coli

SecA protein reveals multiple periplasmically exposed regions and modulation by ATP binding. Ramamurthy V, et al. **J Biol Chem** 1997 Sep 12;272(37):23239–46

The X-ray structure of the PurR–guanine–purF operator complex reveals the contributions of complementary electrostatic surfaces and a water–mediated hydrogen bond to corepressor specificity and binding affinity. Schumacher MA, et al. **J Biol Chem** 1997 Sep 5;272(36):22648–53

How GroES regulates binding of nonnative protein to GroEL. Sparrer H, et al. **J Biol Chem** 1997 May 30; 272(22):14080–6

Topography of the photosystem I core proteins of the cyanobacterium Synechocystis sp. PCC 6803. Sun J, et al. **J Biol Chem** 1997 Aug 29;272(35):21793–802

ATP–dependent degradation of CcdA by Lon protease. Effects of secondary structure and heterologous subunit interactions. Van Melderen L, et al. **J Biol Chem** 1996 Nov 1;271(44):27730–8

Negative dominance studies demonstrate the oligomeric structure of EmrE, a multidrug antiporter from Escherichia coli. Yerushalmi H, et al. **J Biol Chem** 1996 Dec 6; 271(49):31044–8

The effect of ring currents on carbon chemical shifts in cytochromes. Blanchard L, et al. **J Biomol NMR** 1997 Jun; 9(4):389–95

An efficient method for sampling the essential subspace of proteins. Amadei A, et al. **J Biomol Struct Dyn** 1996 Feb; 13(4):615–25

Structural and functional similarities between the human cytoskeletal protein zyxin and the ActA protein of Listeria monocytogenes. Golsteyn RM, et al. **J Cell Sci** 1997 Aug; 110 (Pt 16):1893–906

Design and optimization of a capillary electrophoretic mobility shift assay involving trp repressor–DNA complexes. Stebbins MA, et al. **J Chromatogr B Biomed Appl** 1996 Aug 9;683(1):77–84

The Fab region of IgG2 human myeloma proteins does not bear the streptococcal protein G–specific determinant. Perosa F, et al. **J Immunol Methods** 1997 Apr 25; 203(2):153–5

The serum albumin–binding region of streptococcal protein G: a bacterial fusion partner with carrier–related properties. Sjölander A, et al. **J Immunol Methods** 1997 Feb 14; 201(1):115–23

Physical characterization of a totally synthetic rubredoxin. Christen R, et al. **J Inorg Biochem** 1997 Jan;65(1):53–6

Intramolecular proteolytic cleavage of Bacillus thuringiensis Cry3A delta–endotoxin may facilitate its coleopteran toxicity. Carroll J, et al. **J Invertebr Pathol** 1997 Jul; 70(1):41–9

NMR analysis of the interaction between protein L and Ig light chains. Enokizono J, et al. **J Mol Biol** 1997 Jul 4; 270(1):8–13

GroE modulates kinetic partitioning of folding intermediates between alternative states to maximize the yield of biologically active protein. Fedorov AN, et al. **J Mol Biol** 1997 May 16;268(4):712–23

Thermodynamics of the interaction of barnase and barstar: changes in free energy versus changes in enthalpy on mutation. Frisch C, et al. **J Mol Biol** 1997 Apr 4; 267(3):696–706

Fluorescence properties of a tryptophan residue in an aromatic core of the protein subunit of ribonuclease P from Escherichia coli. Gopalan V, et al. **J Mol Biol** 1997 Apr 11;267(4):765–9

Ribosomal protein L9: a structure determination by the combined use of X-ray crystallography and NMR spectroscopy. Hoffman DW, et al. **J Mol Biol** 1996 Dec 20;264(5):1058–71

Solution structure of the albumin–binding GA module: a versatile bacterial protein domain. Johansson MU, et al. **J Mol Biol** 1997 Mar 14;266(5):859–65

Thermal unfolding of the DNA–binding protein Sso7d from the hyperthermophile Sulfolobus solfataricus. Knapp S, et al. **J Mol Biol** 1996 Dec 20;264(5):1132–44

Domain structure of the prokaryotic selenocysteine–specific elongation factor SelB. Kromayer M, et al. **J Mol Biol** 1996 Oct 4;262(4):413–20

An exceptionally stable helix from the ribosomal protein L9: implications for protein folding and stability. Kuhlman B, et al. **J Mol Biol** 1997 Aug 1;270(5):640–7

Amide hydrogen exchange and internal dynamics in the chemotactic protein CheY from Escherichia coli. Lacroix E, et al. **J Mol Biol** 1997 Aug 22;271(3):472–87

Crystal structure of the bacteriochlorophyll a protein from Chlorobium tepidum. Li YF, et al. **J Mol Biol** 1997 Aug 22;271(3):456–71

Charged residues of the rotor protein FliG essential for torque generation in the flagellar motor of Escherichia coli. Lloyd SA, et al. **J Mol Biol** 1997 Mar 7;266(4):733–44

Folding kinetics of Che Y mutants with enhanced native alpha–helix propensities. López–Hernández E, et al. **J Mol Biol** 1997 Feb 28;266(3):610–20

Hyperthermophile protein folding thermodynamics: differential scanning calorimetry and chemical denaturation of Sac7d. McCrary BS, et al. **J Mol Biol** 1996 Dec 13; 264(4):784–805

Biochemical properties of RuvBD113N: a mutation in helicase motif II of the RuvB hexamer affects DNA binding and ATPase activities. Mézard C, et al. **J Mol Biol** 1997 Sep 5;271(5):704–17

Three–dimensional structure of the DNA–binding domain of the fructose repressor from Escherichia coli by 1H and 15N NMR. Penin F, et al. **J Mol Biol** 1997 Jul 18; 270(3):496–510

Crystal structures and solution conformations of a dominant–negative mutant of Escherichia coli maltose–binding protein. Shilton BH, et al. **J Mol Biol** 1996 Nov 29;264(2):364–76

Conformational changes of three periplasmic receptors for bacterial chemotaxis and transport: the maltose–, glucose/galactose– and ribose–binding proteins. Shilton BH, et al. **J Mol Biol** 1996 Nov 29;264(2):350–63

Molecular recognition in signal transduction: the interaction surfaces of the Spo0F response regulator with its cognate phosphorelay proteins revealed by alanine scanning mutagenesis. Tzeng YL, et al. **J Mol Biol** 1997 Sep 19; 272(2):200–12

Multiple wavelength anomalous diffraction (MAD) crystal structure of rusticyanin: a highly oxidizing cupredoxin with extreme acid stability. Walter RL, et al. **J Mol Biol** 1996 Nov 15;263(5):730–51

Crystal structures and mechanism of 6–phospho–beta–galactosidase from Lactococcus lactis. Wiesmann C, et al. **J Mol Biol** 1997 Jun 27;269(5):851–60

NMR 15N relaxation and structural studies reveal slow conformational exchange in barstar C40/82A. Wong KB, et al. **J Mol Biol** 1997 May 2;268(2):494–511

Structure and subunit composition of the RuvAB–Holliday junction complex. Yu X, et al. **J Mol Biol** 1997 Feb 21; 266(2):217–22

Molecular phylogenetic characterization of Streptomyces protease inhibitor family. Taguchi S, et al. **J Mol Evol** 1997 May;44(5):542–51

Immobilization of streptavidin for immunosensors on nanostructured surfaces. Kossek S, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):485–7

Lipopeptides with improved properties: structure by NMR, purification by HPLC and structure–activity relationships of new isoleucyl–rich surfactins. Grangemard I, et al. **J Pept Sci** 1997 Mar–Apr;3(2):145–54

A fluorescence study of Tn10–encoded tet repressor. Wasylewski Z, et al. **J Protein Chem** 1996 Jan;15(1):45–58

Influence of the QKRAA/QRRAA/RRRAA motifs of the third hypervariable region of HLA–DRB1 in the development of rheumatoid arthritis. Auger I, et al. **J Rheumatol** 1997 Jan;24(1):227–8

Crystallization and preliminary X–ray analysis of cholesterol oxidase from Brevibacterium sterolicum containing covalently bound FAD. Croteau N, et al. **J Struct Biol** 1996 Mar–Apr;116(2):317–9

Purification, crystallization, and preliminary X–Ray diffraction analysis of the carbapenem–hydrolyzing class A beta–lactamase Sme–1 from Serratia marcescens. Sougakoff W, et al. **J Struct Biol** 1996 Mar–Apr; 116(2):313–6

Crystallization and preliminary X–ray crystallographic studies of Escherichia coli xanthine phosphoribosyltransferase. Vos S, et al. **J Struct Biol** 1996 Mar–Apr;116(2):330–4

S–layer stabilized solid support lipid bilayers. Wetzer B, et al. **J Struct Biol** 1997 Jul;119(2):123–8

Reconstitution of RNA polymerase. Fujita N, et al. **Methods Enzymol** 1996;273:121–30 (21 ref.)

Escherichia coli RNA polymerase holoenzyme: rapid reconstitution from recombinant alpha, beta, beta', and sigma subunits. Tang H, et al. **Methods Enzymol** 1996; 273:130–4 (19 ref.)

Expression and purification of recombinant streptavidin–containing chimeric proteins. Sano T, et al. **Methods Mol Biol** 1997;63:119–28

Penicillin and beyond: evolution, protein fold, multimodular polypeptides, and multiprotein complexes. Ghuysen JM, et al. **Microb Drug Resist** 1996 Summer;2(2):163–75 (42 ref.)

VlpA of Vibrio cholerae O1: the first bacterial member of the alpha 2–microglobulin lipocalin superfamily. Barker A, et al. **Microbiology** 1997 Jun;143 (Pt 6):1805–13

S–layers of Bacillus species. Sidhu MS, et al. **Microbiology** 1997 Apr;143 (Pt 4):1039–52 (150 ref.)

Membrane topology analysis of the Bacillus subtilis BofA protein involved in pro–sigma K processing. Varcamonti M, et al. **Microbiology** 1997 Apr;143 (Pt 4):1053–8

Conserved sequence motifs in the unorthodox BvgS two–component sensor protein of Bordetella pertussis. Beier D, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):169–76

Characterization, sequence and mode of replication of plasmid pNB2 from the thermophilic bacterium Clostridium thermosaccharolyticum. Delver EP, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):166–72

Functional dissection of a cell–division inhibitor, SulA, of Escherichia coli and its negative regulation by Lon. Higashitani A, et al. **Mol Gen Genet** 1997 Apr 28; 254(4):351–7

Mapping of the entomocidal fragment of Spodoptera–specific Bacillus thuringiensis toxin CryIC [published erratum appears in Mol Gen Genet 1997 Feb 27;253(6):777] Strizhov N, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):11–9

Channel activity caused by a Bacillus thuringiensis delta–endotoxin preparation depends on the method of activation. Smedley DP, et al. **Mol Membr Biol** 1997 Jan–Mar;14(1):13–8

Structural relationship between a bacterial developmental protein and eukaryotic PP2C protein phosphatases. Adler E, et al. **Mol Microbiol** 1997 Jan;23(1):57–62

The S–layer protein of Corynebacterium glutamicum is anchored to the cell wall by its C–terminal hydrophobic domain. Chami M, et al. **Mol Microbiol** 1997 Feb; 23(3):483–92

Effector–induced self–association and conformational changes in the enhancer–binding protein NTRC. Farez–Vidal ME, et al. **Mol Microbiol** 1996 Dec; 22(5):779–88

FNR–DNA interactions at natural and semi–synthetic promoters. Green J, et al. **Mol Microbiol** 1996 Jan; 19(1):125–37

Salmonella typhimurium secreted invasion determinants are homologous to Shigella Ipa proteins. Hueck CJ, et al. **Mol Microbiol** 1995 Nov;18(3):479–90

The TraB protein, which mediates the intermycelial transfer of the Streptomyces plasmid pSN22, has functional NTP–binding motifs and is localized to the cytoplasmic membrane. Kosoño S, et al. **Mol Microbiol** 1996 Jan; 19(2):397–405

The amino–terminal part of ActA is critical for the actin–based motility of Listeria monocytogenes; the central proline–rich region acts as a stimulator. Lasa I, et al. **Mol Microbiol** 1995 Nov;18(3):425–36

Two–dimensional structure of the Opc invasin from Neisseria meningitidis. Merker P, et al. **Mol Microbiol** 1997 Jan; 23(2):281–93

The N–terminal beta–barrel domain of the Escherichia coli K88 periplasmic chaperone FaeE determines fimbrial subunit recognition and dimerization. Mol O, et al. **Mol Microbiol** 1996 Oct;22(2):379–88

Atomic structure and specificity of bacterial periplasmic receptors for active transport and chemotaxis: variation of common themes. Quiocho FA, et al. **Mol Microbiol** 1996 Apr;20(1):17–25 (40 ref.)

A single substitution in the putative helix–turn–helix motif of the pleiotropic activator PrfA attenuates Listeria monocytogenes virulence. Sheehan B, et al. **Mol Microbiol** 1996 May;20(4):785–97

Discrete regions of the sensor protein virA determine the strain–specific ability of Agrobacterium to agroinfect maize. Heath JD, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):221–7

HrpG, a key hrp regulatory protein of Xanthomonas campestris pv. vesicatoria is homologous to two–component response regulators. Wengelnik K, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):704–12

MutS interaction with mismatch and alkylated base containing DNA molecules detected by optical biosensor. Babic I, et al. **Mutat Res** 1996 Nov 11;372(1):87–96

Picture story. An eye on crystallins. Clout NJ, et al. **Nat Struct Biol** 1997 Sep;4(9):685

Protein alchemy: changing beta–sheet into alpha–helix [see comments] Dalal S, et al. **Nat Struct Biol** 1997 Jul; 4(7):548–52. Comment in: Nat Struct Biol 1997 Jul;4(7):512–4.

The C–terminal half of the anti–sigma factor, FlgM, becomes structured when bound to its target, sigma 28. Daughdrill GW, et al. **Nat Struct Biol** 1997 Apr;4(4):285–91

Picture story. One–armed bandit. Felsenfeld AL. **Nat Struct Biol** 1997 May;4(5):338

Crystal structure of the molybdate binding protein ModA [letter] Hu Y, et al. **Nat Struct Biol** 1997 Sep;4(9):703–7

Penetrating insights into pore formation [news] Hughson FM. **Nat Struct Biol** 1997 Feb;4(2):89–92 (28 ref.)

Trapping and visualization of a covalent enzyme–phosphate intermediate [letter] Murphy JE, et al. **Nat Struct Biol** 1997 Aug;4(8):618–22

Initial loss of secondary structure in the unfolding of barstar [letter] Nath U, et al. **Nat Struct Biol** 1996 Nov;3(11):920–3

A leucine–rich repeat variant with a novel repetitive protein structural motif [letter] Peters JW, et al. **Nat Struct Biol** 1996 Dec;3(12):991–4

Protein folding and the Paracelsus challenge [news; comment] Rose GD. **Nat Struct Biol** 1997 Jul;4(7):512–4 . Comment on: Nat Struct Biol 1997 Jul;4(7):548–52.

Formation of the hinge helix in the lac repressor is induced upon binding to the lac operator [letter] Spronk CA, et al. **Nat Struct Biol** 1996 Nov;3(11):916–9

Crystal structure of the EF–Tu.EF–Ts complex from Thermus thermophilus. Wang Y, et al. **Nat Struct Biol** 1997 Aug;4(8):650–6

Structure of the conserved GTPase domain of the signal recognition particle. Freymann DM, et al. **Nature** 1997 Jan 23;385(6614):361–4

Protein engineering. Reading, writing and redesigning [news] Gross M, et al. **Nature** 1997 Jul 31;388(6641):419–20

Structure of a replication–terminator protein complexed with DNA [see comments] Kamada K, et al. **Nature** 1996 Oct 17;383(6601):598–603. Comment in: Nature 1996 Oct 17;383(6601):582–3.

Crystal structure of the NG domain from the signal–recognition particle receptor FtsY. Montoya G, et al. **Nature** 1997 Jan 23;385(6614):365–8

DNA replication. Tussle with a terminator [news; comment] Wake RG. **Nature** 1996 Oct 17;383(6601):582–3. Comment on: Nature 1996 Oct 17;383(6601):598–603.

Characterization of a RecA/RAD51 homologue from the hyperthermophilic archaeon Pyrococcus sp. KOD1. Rashid N, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):719–26

Conformational changes of purine repressor DNA–binding domain upon complexation with DNA. Nagadoi A, et al. **Nucleic Acids Symp Ser** 1995;(34):63–4

Control of the cell-specificity of sigma F activity in Bacillus subtilis. Errington J, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):537-42 (38 ref.)

Structure and function of Escherichia coli met repressor: similarities and contrasts with trp repressor. Phillips SE, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):527-35 (42 ref.)

Agrobacterium tumefaciens VirB7 and VirB9 form a disulfide-linked protein complex. Anderson LB, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8889-94

A structure-based catalytic mechanism for the xanthine oxidase family of molybdenum enzymes. Huber R, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8846-51

Detecting the conformational change of transmembrane signaling in a bacterial chemoreceptor by measuring effects on disulfide cross-linking in vivo. Hughson AG, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11546-51

Iron-sulfur cluster disassembly in the FNR protein of Escherichia coli by O2: [4Fe-4S] to [2Fe-2S] conversion with loss of biological activity. Khoroshilova N, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6087-92

Fetal mouse selenophosphate synthetase 2 (SPS2): characterization of the cysteine mutant form overproduced in a baculovirus-insect cell system. Kim IY, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):418-21

D-Ala-D-Ala ligases from glycopeptide antibiotic-producing organisms are highly homologous to the enterococcal vancomycin-resistance ligases VanA and VanB. Marshall CG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6480-3

ActA is a dimer. Mourrain P, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10034-9

The folding pathway of a protein at high resolution from microseconds to seconds. Nölting B, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):826-30

Engineering subunit association of multisubunit proteins: a dimeric streptavidin. Sano T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6153-8

Mutant LexA proteins with specific defects in autodigestion. Shepley DP, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11528-33

Measurements of attractive forces between proteins and end-grafted poly(ethylene glycol) chains. Sheth SR, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8399-404

A general method for determining helix packing in membrane proteins in situ: helices I and II are close to helix VII in the lactose permease of Escherichia coli. Wu J, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14498-502

A mammalian mitochondrial drug receptor functions as a bacterial "oxygen" sensor [see comments] Yeliseev AA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5101-6 . Comment in: Proc Natl Acad Sci U S A 1997 May 13;94(10):4821-2.

Crystalline bacterial cell surface layers (S-layers): from cell structure to biomimetics. Sára M, et al. **Prog Biophys Mol Biol** 1996;65(1-2):83-111 (200 ref.)

Spectroscopic properties of an engineered maltose binding protein. Gilardi G, et al. **Protein Eng** 1997 May; 10(5):479-86

Grafting of discontinuous sites: a protein modeling strategy. Hornischer K, et al. **Protein Eng** 1996 Nov;9(11):931-9

The active site of carboxypeptidase Taq possesses the active-site motif His-Glu-X-X-His of zinc-dependent endopeptidases and aminopeptidases. Lee SH, et al. **Protein Eng** 1996 Jun;9(6):467-9

Maltodextrin-binding protein hybrids carrying epitopes from the preS2 region of hepatitis B virus: expression, antibody-binding and preliminary crystallographic studies. Vulliez-le Normand B, et al. **Protein Eng** 1997 Feb; 10(2):175-80

Crystallization and preliminary X-ray diffraction studies of alpha-amylase from the antarctic psychrophile Alteromonas haloplanctis A23. Aghajari N, et al. **Protein Sci** 1996 Oct;5(10):2128-9

Crystallographic analysis of the pH-dependent binding of iminobiotin by streptavidin. Athappilly FK, et al. **Protein Sci** 1997 Jun;6(6):1338-42

Members of the immunoglobulin superfamily in bacteria. Bateman A, et al. **Protein Sci** 1996 Sep;5(9):1939-41

Crystallization and preliminary X-ray analysis of the monomeric Cu,Zn superoxide dismutase from Escherichia coli. Battistoni A, et al. **Protein Sci** 1996 Oct;5(10):2125-7

Crystallization and preliminary X-ray analysis of aldehyde dehydrogenase from Vibrio harveyi. Croteau N, et al. **Protein Sci** 1996 Oct;5(10):2130-2

Preparation and properties of pure, full-length IclR protein of Escherichia coli. Use of time-of-flight mass spectrometry to investigate the problems encountered. Donald LJ, et al. **Protein Sci** 1996 Aug;5(8):1613-24

Crystallization and preliminary diffraction studies of NodL, a rhizobial O-acetyl-transferase involved in the host-specific nodulation of legume roots. Dunn SM, et al. **Protein Sci** 1996 Mar;5(3):538-41

Structural studies of the streptavidin binding loop. Freitag S, et al. **Protein Sci** 1997 Jun;6(6):1157-66

The uncharged surface features surrounding the active site of Escherichia coli DsbA are conserved and are implicated in peptide binding. Guddat LW, et al. **Protein Sci** 1997 Jun;6(6):1148-56

What makes a protein a protein? Hydrophobic core designs that specify stability and structural properties. Munson M, et al. **Protein Sci** 1996 Aug;5(8):1584-93

Structural comparison of cupredoxin domains: domain recycling to construct proteins with novel functions. Murphy ME, et al. **Protein Sci** 1997 Apr;6(4):761-70

Extremely thermostable L(+)-lactate dehydrogenase from Thermotoga maritima: cloning, characterization, and crystallization of the recombinant enzyme in its tetrameric and octameric state. Ostendorp R, et al. **Protein Sci** 1996 May;5(5):862-73

A proposed architecture for the central domain of the bacterial enhancer-binding proteins based on secondary structure prediction and fold recognition. Osuna J, et al. **Protein Sci** 1997 Mar;6(3):543-55

Comparison of high-resolution structures of the diphtheria toxin repressor in complex with cobalt and zinc at the cation-anion binding site. Pohl E, et al. **Protein Sci** 1997 May;6(5):1114-8

Evidence for PDZ domains in bacteria, yeast, and plants. Ponting CP. **Protein Sci** 1997 Feb;6(2):464-8

Conformational substates in enzyme mechanism: the 120 K structure of alpha-lytic protease at 1.5 A resolution. Rader SD, et al. **Protein Sci** 1997 Jul;6(7):1375-86

Conformational analysis of peptides corresponding to all the secondary structure elements of protein L B1 domain: secondary structure propensities are not conserved in proteins with the same fold. Ramírez-Alvarado M, et al. **Protein Sci** 1997 Jan;6(1):162-74

2D 1H and 3D 1H-15N NMR of zinc-rubredoxins: contributions of the beta-sheet to thermostability. Richie KA, et al. **Protein Sci** 1996 May;5(5):883-94

An unusual route to thermostability disclosed by the comparison of Thermus thermophilus and Escherichia coli inorganic pyrophosphatases. Salminen T, et al. **Protein Sci** 1996 Jun;5(6):1014-25

Crystal structure analyses of uncomplexed ecotin in two crystal forms: implications for its function and stability. Shin DH, et al. **Protein Sci** 1996 Nov;5(11):2236-47

Surface point mutations that significantly alter the structure and stability of a protein's denatured state. Smith CK, et al. **Protein Sci** 1996 Oct;5(10):2009-19

Electrospray mass spectrometric investigation of the chaperone SecB. Smith VF, et al. **Protein Sci** 1996 Mar; 5(3):488-94

Phosphoribosyl anthranilate isomerase from Thermotoga maritima is an extremely stable and active homodimer. Sterner R, et al. **Protein Sci** 1996 Oct;5(10):2000-8

The 1.8-A X-ray structure of the Escherichia coli PotD protein complexed with spermidine and the mechanism of polyamine binding. Sugiyama S, et al. **Protein Sci** 1996 Oct; 5(10):1984-90

Phosphorylation-induced torsion-angle strain in the active center of HPr, detected by NMR and restrained molecular dynamics refinement. Van Nuland NA, et al. **Protein Sci** 1996 Mar;5(3):442-6

Mobile unnatural amino acid side chains in the core of staphylococcal nuclease. Wynn R, et al. **Protein Sci** 1996 Jun;5(6):1026-31

Direct evidence for a two-state protein unfolding transition from hydrogen-deuterium exchange, mass spectrometry, and NMR. Yi Q, et al. **Protein Sci** 1996 Jun;5(6):1060-6

A complete relaxation matrix refinement of the solution structure of a paramagnetic metalloprotein: reduced HiPIP I from Ectothiorhodospira halophila. Bertini I, et al. **Proteins** 1996 Feb;24(2):158-64

Purification, crystallization, and preliminary x-ray studies of a bifunctional 5,10-methenyl/methylene-tetrahydrofolate cyclohydrolase/dehydrogenase from Escherichia coli. Cheung E, et al. **Proteins** 1997 Feb;27(2):322-4

Purification, crystallization, and preliminary X-ray studies of 10-formyltetrahydrofolate synthetase from Clostridia acidici-urici. D'Ari L, et al. **Proteins** 1997 Feb;27(2):319-21

Crystallization and preliminary X-ray characterization of the Methanothermus fervidus histones HMfA and HMfB. Decanniere K, et al. **Proteins** 1996 Feb;24(2):269-71

An extended sampling of the configurational space of HPr from E. coli. de Groot BL, et al. **Proteins** 1996 Nov; 26(3):314-22

Crystallization of the RNA-binding domain of the transcriptional antiterminator protein SacY from Bacillus subtilis. Manival X, et al. **Proteins** 1997 Aug;28(4):590-4

Expression, crystallization and preliminary X-ray diffraction study of FtsY, the docking protein of the signal recognition particle of E. coli. Montoya G, et al. **Proteins** 1997 Jun; 28(2):285-8

Phylogenetic occurrence of coiled coil proteins: implications for tissue structure in metazoa via a coiled coil tissue matrix. Odgren PR, et al. **Proteins** 1996 Apr;24(4):467-84

A potential processing enzyme in prokaryotes: oligopeptidase B, a new type of serine peptidase. Polgár L. **Proteins** 1997 Jul;28(3):375-9

Crystal structure of a recombinant form of the maltodextrin-binding protein carrying an inserted sequence of a B-cell epitope from the preS2 region of hepatitis B virus. Saul FA, et al. **Proteins** 1997 Jan;27(1):1-8

Prediction of the structure of the replication initiator protein DnaA. Schaper S, et al. **Proteins** 1997 May;28(1):1-9

Structural consensus in ligand-protein docking identifies recognition peptide motifs that bind streptavidin. Shah NK, et al. **Proteins** 1997 Jul;28(3):421-33

Crystallization and preliminary crystallographic analysis of RepA1, a replication control protein of the RepFIC replicon of enterotoxin plasmid EntP307. Song H, et al. **Proteins** 1996 May;25(1):137-8

Crystallization and preliminary crystallographic analysis of ribosomal protein S8 from Thermus thermophilus. Tishchenko SV, et al. **Proteins** 1997 Feb;27(2):309-10

Purification and preliminary crystallographic studies on the sporulation response regulatory phosphotransferase protein, Spo0B, from Bacillus subtilis. Zhou XZ, et al. **Proteins** 1997 Apr;27(4):597-600

Structure of a protein photocycle intermediate by millisecond time-resolved crystallography. Genick UK, et al. **Science** 1997 Mar 7;275(5305):1471-5

Crystal structure of the nucleotide exchange factor GrpE bound to the ATPase domain of the molecular chaperone DnaK. Harrison CJ, et al. **Science** 1997 Apr 18; 276(5311):431-5

Evidence for a family of archaeal ATPases [letter; comment] Koonin EV. **Science** 1997 Mar 7;275(5305):1489-90. Comment on: Science 1996 Aug 23;273(5278):1058-73.

Crystal structure of DNA recombination protein RuvA and a model for its binding to the Holliday junction. Rafferty JB, et al. **Science** 1996 Oct 18;274(5286):415-21

Fast-action flicks draw chemists' rave reviews [news] Service R. **Science** 1997 Jun 27;276(5321):1986-7

Amino acid alchemy transmutes sheets to coils [news] Service RF. **Science** 1997 Jul 11;277(5323):179

An alpha to beta conformational switch in EF-Tu. Abel K, et al. **Structure** 1996 Oct 15;4(10):1153-9

Sigma domain structure: one down, one to go. Chan CL, et al. **Structure** 1996 Nov 15;4(11):1235-8 (34 ref.)

Glutaconate CoA-transferase from Acidaminococcus fermentans: the crystal structure reveals homology with other CoA-transferases. Jacob U, et al. **Structure** 1997 Mar 15;5(3):415-26

Crystal structure of the dihaem cytochrome c4 from Pseudomonas stutzeri determined at 2.2A resolution. Kadziola A, et al. **Structure** 1997 Feb 15;5(2):203-16

The crystal structure of a triacylglycerol lipase from Pseudomonas cepacia reveals a highly open conformation in the absence of a bound inhibitor. Kim KK, et al. **Structure** 1997 Feb 15;5(2):173-85

Small structural changes account for the high thermostability of 1[4Fe-4S] ferredoxin from the hyperthermophilic bacterium Thermotoga maritima. Macedo-Ribeiro S, et al. **Structure** 1996 Nov 15;4(11):1291-301

Crystal structure of a phosphatase-resistant mutant of sporulation response regulator Spo0F from Bacillus subtilis. Madhusudan, et al. **Structure** 1996 Jun 15;4(6):679-90

The UmuD' protein filament and its potential role in damage induced mutagenesis. Peat TS, et al. **Structure** 1996 Dec 15;4(12):1401-12

Helix unwinding in the effector region of elongation factor EF-Tu-GDP. Polekhina G, et al. **Structure** 1996 Oct 15; 4(10):1141-51

Extensive features of tight oligosaccharide binding revealed in high-resolution structures of the maltodextrin transport/chemosensory receptor. Quiocho FA, et al. **Structure** 1997 Aug 15;5(8):997-1015

The crystal structure of the flavin containing enzyme dihydroorotate dehydrogenase A from Lactococcus lactis. Rowland P, et al. **Structure** 1997 Feb 15;5(2):239-52

Crystal structure of carboxypeptidase G2, a bacterial enzyme with applications in cancer therapy. Rowsell S, et al. **Structure** 1997 Mar 15;5(3):337-47

Lac repressor at last. Sauer RT. **Structure** 1996 Mar 15; 4(3):219-22 (21 ref.)

Out of the blue: the photocycle of the photoactive yellow protein. Schlichting I, et al. **Structure** 1997 Jun 15; 5(6):735-9 (24 ref.)

The open conformation of a Pseudomonas lipase. Schrag JD, et al. **Structure** 1997 Feb 15;5(2):187-202

A cohesin domain from Clostridium thermocellum: the crystal structure provides new insights into cellulosome assembly. Shimon LJ, et al. **Structure** 1997 Mar 15; 5(3):381-90

The structure of the cofactor-binding fragment of the LysR family member, CysB: a familiar fold with a surprising subunit arrangement. Tyrrell R, et al. **Structure** 1997 Aug 15;5(8):1017-32

The structure of an energy-coupling protein from bacteria, IIBcellobiose, reveals similarity to eukaryotic protein tyrosine phosphatases. van Montfort RL, et al. **Structure** 1997 Feb 15;5(2):217-25

A tale of two terminators: crystal structures sharpen the debate on DNA replication fork arrest mechanisms. Wake R, et al. **Structure** 1997 Jan 15;5(1):1-5 (22 ref.)

The structure of a domain common to archaebacteria and the homocystinuria disease protein. Bateman A. **Trends Biochem Sci** 1997 Jan;22(1):12-3

Redox signal transduction via iron-sulfur clusters in the SoxR transcription activator. Hidalgo E, et al. **Trends Biochem Sci** 1997 Jun;22(6):207-10 (37 ref.)

KOW: a novel motif linking a bacterial transcription factor with ribosomal proteins. Kyrpides NC, et al. **Trends Biochem Sci** 1996 Nov;21(11):425-6

The ORF I and II proteins of Commelina yellow mottle virus are virion-associated. Cheng CP, et al. **Virology** 1996 Sep 15;223(2):263-71

Isolation of a new epidermin variant from two strains of Staphylococcus epidermidis--frequency of lantibiotic production in coagulase-negative staphylococci. Israil AM, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):285-96

[PotD protein: three-dimensional structure and function]

Sugiyama S, et al. **Seikagaku** 1997 Feb;69(2):113–9 (16 ref.) **(Jpn)**

[Structure and photochemical reactions of photoactive yellow protein] Imamoto Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(2):129–35 (31 ref.) **(Jpn)**

[Thermodynamic analysis of domain organization of Bacillus thuringiensis toxins] Loseva OI, et al. **Bioorg Khim** 1996 Dec;22(12):900–6 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

A new family of prokaryotic transport proteins: binding protein–dependent secondary transporters [letter] Driessen AJ, et al. **Mol Microbiol** 1997 May;24(4):881–3

Protein structural classes in five complete genomes [letter] Frishman D, et al. **Nat Struct Biol** 1997 Aug;4(8):626–8

A novel family of phospholipase D homologues that includes phospholipid synthases and putative endonucleases: identification of duplicated repeats and potential active site residues. Ponting CP, et al. **Protein Sci** 1996 May; 5(5):914–22

Colonization factors of human enterotoxigenic Escherichia coli (ETEC). Gaastra W, et al. **Trends Microbiol** 1996 Nov; 4(11):444–52 (75 ref.)

DIAGNOSTIC USE

Antigenic epitope mapping of the M24 protein of Streptococcus pyogenes: implications for serodiagnosis of rheumatic fever. Norton RE, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3–4):267–71

High resolution autoantibody detection by optimized protein G–horseradish peroxidase immunostaining in a western blotting assay. Hu GR, et al. **J Immunol Methods** 1997 Mar 28;202(2):113–21

Imaging osteomyelitis with streptavidin and indium–111–labeled biotin. Rusckowski M, et al. **J Nucl Med** 1996 Oct;37(10):1655–62

Pretargeted tumour imaging with streptavidin immunoconjugates of monoclonal antibody CC49 and 111In–DTPA–biocytin. Alvarez–Diez TM, et al. **Nucl Med Biol** 1996 May;23(4):459–66

[The role of the outer–membrane antigens of Yersinia pseudotuberculosis in the pathogenesis and diagnosis of pseudotuberculosis] Kuliashova LB, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):14–8 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Over expression of inducible proteins in Escherichia coli by treatment with ethanol. Basu T, et al. **Biochem Mol Biol Int** 1997 May;41(6):1093–100

Modification of the Mycobacterium bovis extracellular protein MPB70 with fluorescein for rapid detection of specific serum antibodies by fluorescence polarization. Lin M, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):438–43

The reaction of bacterial toxins with formaldehyde and its use for antigen stabilization. Petre J, et al. **Dev Biol Stand** 1996;87:125–34

5–Azacytidine–induced 6–thioguanine resistance at the gpt locus in AS52 cells: cellular response. Spencer DL, et al. **Environ Mol Mutagen** 1996;28(2):100–6

PCR–RFLP typing of ureC from Helicobacter pylori isolated in Argentina from gastric biopsies before and after treatment with clarithromycin. Stone GG, et al. **Epidemiol Infect** 1997 Apr;118(2):119–24

Evolution of the bacterial dihydrofolate reductase inhibitors. Periti P. **J Antimicrob Chemother** 1995 Dec;36(6):887–90 (27 ref.)

Molecular analysis of lacI mutations in Rat2 cells exposed to 7,12–dimethylbenz[a]anthracene: evidence for DNA sequence and DNA strand biases for mutation. Manjanatha MG, et al. **Mutat Res** 1996 Nov 11;372(1):53–64

GENETICS

Sequence analysis and comparison of 190 K surface antigen gene fragment of a new species of spotted fever group rickettsiae. Zhang JZ, et al. **Acta Virol** 1997 Feb;41(1):41–5

Characterization of the agfBA fimbrial operon encoding thin aggregative fimbriae of Salmonella enteritidis. Collinson SK, et al. **Adv Exp Med Biol** 1997;412:247–8

Cloning, sequencing, and expression of a Campylobacter jejuni periplasmic binding protein (P29) involved in histidine transport. Garvis SG, et al. **Adv Exp Med Biol** 1997;412:263–4

Unique Salmonella choleraesuis surface protein affecting invasiveness. Possible inv related sequence. Maddox CW, et al. **Adv Exp Med Biol** 1997;412:341–8

CagA and the outcome of Helicobacter pylori infection [editorial; comment] Blaser MJ, et al. **Am J Clin Pathol** 1996 Nov;106(5):565–7. Comment on: Am J Clin Pathol 1996 Nov;106(5):670–5.

Gastric non–Hodgkin lymphomas of mucosa–associated lymphoid tissue are not associated with more aggressive Helicobacter pylori strains as identified by CagA [see comments] de Jong D, et al. **Am J Clin Pathol** 1996 Nov; 106(5):670–5. Comment in: Am J Clin Pathol 1996 Nov;106(5):565–7.

Genetic analysis of the cytotoxin–associated gene and the vacuolating toxin gene in Helicobacter pylori strains isolated from Taiwanese patients. Yang JC, et al. **Am J Gastroenterol** 1997 Aug;92(8):1316–21

Serratia liquefaciens as a new host superior for overproduction and purification using the N–acetylneuraminate lyase gene of Escherichia coli. Yamamoto K, et al. **Anal Biochem** 1997 Mar 15; 246(2):171–5

Homologous recombination proteins in prokaryotes and eukaryotes. Camerini–Otero RD, et al. **Annu Rev Genet** 1995;29:509–52 (261 ref.)

Glycopeptide susceptibility among Danish Enterococcus faecium and Enterococcus faecalis isolates of animal and human origin and PCR identification of genes within the VanA cluster. Aarestrup FM, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1938–40

Quinolone resistance locus nfxD of Escherichia coli is a mutant allele of the parE gene encoding a subunit of topoisomerase IV. Breines DM, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):175–9

Sequencing and analysis of four new Enterobacter ampD Alleles. Ehrhardt AF, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1953–6

Characterization of the 6'–N–aminoglycoside acetyltransferase gene aac(6')–Il associated with a sulI–type integron. Hannecart–Pokorni E, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):314–8

Induction signals for vancomycin resistance encoded by the vanA gene cluster in Enterococcus faecium. Lai MH, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1645–8

Characterization of a mutation in the parE gene that confers fluoroquinolone resistance in Streptococcus pneumoniae. Perichon B, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):1166–7

Emergence of vancomycin resistance in the genus Streptococcus: characterization of a vanB transferable determinant in Streptococcus bovis. Poyart C, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):24–9

Vancomycin dependence in a vanA–producing Enterococcus avium strain with a nonsense mutation in the natural D–Ala–D–Ala ligase gene [letter] Sifaoui F, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1409

Isolation of a gene encoding a novel spectinomycin phosphotransferase from Legionella pneumophila. Suter TM, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1385–8

Identification of the tetracycline resistance gene, tet(O), in Streptococcus pneumoniae. Widdowson CA, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2891–3

Organic solvent tolerance and antibiotic resistance increased by overexpression of marA in Escherichia coli. Asako H, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1428–33

A nucleic acid sequence–based amplification system for detection of Listeria monocytogenes hlyA sequences. Blais BW, et al. **Appl Environ Microbiol** 1997 Jan;63(1):310–3

PCR amplification of the fimA gene sequence of Salmonella typhimurium, a specific method for detection of Salmonella spp. Cohen HJ, et al. **Appl Environ Microbiol** 1996 Dec; 62(12):4303–8

Isolation, purification, and amino acid sequence of lactobin A, one of the two bacteriocins produced by Lactobacillus amylovorus LMG P–13139. Contreras BG, et al. **Appl Environ Microbiol** 1997 Jan;63(1):13–20

Identification and sequence analysis of two regulatory genes involved in anaerobic toluene metabolism by strain T1. Coschigano PW, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):652–60

Cloning, sequencing, and expression of the gene encoding amylopullulanase from Pyrococcus furiosus and biochemical characterization of the recombinant enzyme. Dong G, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3577–84

Hypochlorous acid activates the heat shock and soxRS systems of Escherichia coli. Dukan S, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4003–8

Phenotypic and genetic characterization of the bacteriophage abortive infection mechanism AbiK from Lactococcus lactis. Emond E, et al. **Appl Environ Microbiol** 1997 Apr; 63(4):1274–83

Identification and characterization of a previously undescribed cyt gene in Bacillus thuringiensis subsp. israelensis. Guerchicoff A, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2716–21

Molecular characterization of the gene encoding an 18–kilodalton small heat shock protein associated with the membrane of Leuconostoc oenos. Jobin MP, et al. **Appl Environ Microbiol** 1997 Feb;63(2):609–14

PCR–based approach for detection of novel Bacillus thuringiensis cry genes. Juárez–Pérez VM, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2997–3002

Detection of RTX toxin genes in gram–negative bacteria with a set of specific probes. Kuhnert P, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2258–65

Identification of novel cry–type genes from Bacillus thuringiensis strains on the basis of restriction fragment length polymorphism of the PCR–amplified DNA. Kuo WS, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1369–77

Evaluation of a novel subtilisin inhibitor gene and mutant derivatives for the expression and secretion of mouse tumor necrosis factor alpha by Streptomyces lividans. Lammertyn E, et al. **Appl Environ Microbiol** 1997 May;63(5):1808–13

Availability of iron to Pseudomonas fluorescens in rhizosphere and bulk soil evaluated with an ice nucleation reporter gene. Loper JE, et al. **Appl Environ Microbiol** 1997 Jan;63(1):99–105

Expression of the antimicrobial peptide carnobacteriocin B2 by a signal peptide–dependent general secretory pathway. McCormick JK, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4095–9

Cloning and functional expression in Escherichia coli of the gene encoding the di– and tripeptide transport protein of Lactobacillus helveticus. Nakajima H, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2213–7

Combining the hok/sok, parDE, and pnd postsegregational killer loci to enhance plasmid stability. Pecota DC, et al. **Appl Environ Microbiol** 1997 May;63(5):1917–24

Cell–density–dependent sensitivity of a mer–lux bioassay. Rasmussen LD, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3291–3

Biochemical and molecular characterization of the insecticidal fragment of CryV. Sekar V, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2798–801

Expression of functional Porphyromonas gingivalis fimbrillin polypeptide domains on the surface of Streptococcus gordonii. Sharma A, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3933–8

Unique regulation of crystal protein production in Bacillus thuringiensis subsp. yunnanensis is mediated by the cry protein–encoding 103–megadalton plasmid. Srinivas G, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2792–7

Virulence determinants invA and spvC in salmonellae isolated from poultry products, wastewater, and human sources. Swamy SC, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3768–71

Identification of a gene for Cyt1A–like hemolysin from Bacillus thuringiensis subsp. medellin and expression in a crystal–negative B. thuringiensis strain. Thiery I, et al. **Appl Environ Microbiol** 1997 Feb;63(2):468–73

Analysis of the syrP gene, which regulates syringomycin synthesis by Pseudomonas syringae pv. syringae. Zhang JH, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2771–8

Some like it cold: response of microorganisms to cold shock. Graumann P, et al. **Arch Microbiol** 1996 Nov; 166(5):293–300 (65 ref.)

The alternative sigma factor sigmaB in Staphylococcus aureus: regulation of the sigB operon in response to growth phase and heat shock. Kullik I, et al. **Arch Microbiol** 1997 Feb–Mar;167(2–3):151–9

The kil gene of the ColE1 plasmid of Escherichia coli controlled by a growth–phase–dependent promoter mediates the secretion of a heterologous periplasmic protein during the stationary phase. Miksch G, et al. **Arch Microbiol** 1997 Feb–Mar;167(2–3):143–50

Routine rapid Mycobacterium species assignment based on species–specific allelic variation in the 65–kilodalton heat shock protein gene (hsp65). Pai S, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):859–64

Effect of inv mutations on Salmonella virulence and colonization in 1–day–old White Leghorn chicks. Porter SB, et al. **Avian Dis** 1997 Jan–Mar;41(1):45–57

The Xanthomonas campestris gumD gene required for synthesis of xanthan gum is involved in normal pigmentation and virulence in causing black rot. Chou FL, et al. **Biochem Biophys Res Commun** 1997 Apr 7; 233(1):265–9

Disruption of the hslU gene, which encodes an ATPase subunit of the eukaryotic 26S proteasome homolog in Escherichia coli, suppresses the temperature–sensitive dnaA46 mutation. Katayama T, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):219–24

A dtsR gene–disrupted mutant of Brevibacterium lactofermentum requires fatty acids for growth and efficiently produces L–glutamate in the presence of an excess of biotin. Kimura E, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):157–61

Cloning, sequencing, and characterization of the ftsZ gene from coryneform bacteria. Kobayashi M, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):383–8

A 13–kDa protein with a helix–turn–helix motif is encoded by bacterial operons related to the SRP pathway. Samuelsson T, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):839–43

Cloning, sequencing, and expression of the rpoD gene encoding the primary sigma factor of Xanthomonas campestris. Tseng YS, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):712–8

Mutagenic specificity of N–methyl–N'–nitro–N–nitrosoguanidine in the tonB gene on the chromosome of Escherichia coli recA+ and recA– cells. Wang X, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):334–9

Sequence analysis of the small cryptic Xanthomonas campestris pv. vesicatoria plasmid pXV64 encoding a Rep protein similar to gene II protein of phage 12–2. Weng SF, et al. **Biochem Biophys Res Commun** 1997 Feb 3; 231(1):121–5

Analysis of the mismatch and insertion/deletion binding properties of Thermus thermophilus, HB8, MutS. Whitehouse A, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):834–7

The role of mex–gene products in antibiotic extrusion in Pseudomonas aeruginosa. Yoneyama H, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):611–8

Antibiotic resistance mechanisms of mutant EF–Tu species in Escherichia coli. Kraal B, et al. **Biochem Cell Biol** 1995

Nov-Dec;73(11-12):1167-77 (36 ref.)
Location and domain structure of Escherichia coli ribosomal protein L7/L12: site specific cysteine crosslinking and attachment of fluorescent probes. Traut RR, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11-12):949-58
Regulation of the Escherichia coli S10 ribosomal protein operon by heterologous L4 ribosomal proteins. Zengel JM, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11-12):1105-12
Two genes encoding an endoglucanase and a cellulose-binding protein are clustered and co-regulated by a TTA codon in Streptomyces halstedii JM8. Garda AL, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):403-11
The YNT1 gene encoding the nitrate transporter in the yeast Hansenula polymorpha is clustered with genes YNI1 and YNR1 encoding nitrite reductase and nitrate reductase, and its disruption causes inability to grow in nitrate. Pérez MD, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):397-403
Isolation of a gene encoding nodulin-like intrinsic protein of Escherichia coli. Fushimi K, et al. **Biochem Mol Biol Int** 1997 Apr;41(5):995-1003
Genetic defect of the sodium pump-defective mutant Nap-1 from the marine Vibrio alginolyticus. Hayashi M, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):41-7
A method to detect transmembrane helical segments at the nucleotide level. Lesnik T, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):937-55
Organization and nucleotide sequences of ten ribosomal protein genes from the region equivalent to the S10 operon in the archaebacterium, Halobacterium halobium. Miyokawa T, et al. **Biochem Mol Biol Int** 1996 Aug; 39(6):1209-20
Combinations of the alpha-helix-turn-alpha-helix motif of TetR with respective residues from LacI or 434Cro: DNA recognition, inducer binding, and urea-dependent denaturation. Backes H, et al. **Biochemistry** 1997 May 6; 36(18):5311-22
Active site mutants implicate key residues for control of color and light cycle kinetics of photoactive yellow protein. Genick UK, et al. **Biochemistry** 1997 Jan 7;36(1):8-14
Remote conformational effects of the Gly-62 —> Leu mutation of the Tn10-encoded metal-tetracycline/H+ antiporter of Escherichia coli and its second-site suppressor mutation. Kimura T, et al. **Biochemistry** 1997 Jun 10; 36(23):6941-6
Mutational analysis of potential zinc-binding residues in the active site of the enterococcal D-Ala-D-Ala dipeptidase VanX. McCafferty DG, et al. **Biochemistry** 1997 Aug 26; 36(34):10498-505
Torsional constraints on the formation of open promoter complexes on DNA minicircles carrying sigma 54-dependent promoters. Qureshi M, et al. **Biochemistry** 1997 Oct 7;36(40):12303-16
Overexpression of the gene of ribosomal protein L30 from Thermus thermophilus and crystallization of the recombinant protein. Khairullina AR, et al. **Biochemistry (Mosc)** 1997 Feb;62(2):221-4
Cloning, nucleotide sequence and expression of a mannitol dehydrogenase gene from Pseudomonas fluorescens DSM 50106 in Escherichia coli. Brünker P, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):157-67
Nucleotide sequence of a gene cluster encoding NusG and the L11-L1-L10-L12 ribosomal proteins from the thermophilic archaeon Sulfolobus solfataricus. Geiger M, et al. **Biochim Biophys Acta** 1997 Jul 18;1340(2):170-7
Nucleotide sequence of the vmhA gene encoding hemolysin from Vibrio mimicus. Kim GT, et al. **Biochim Biophys Acta** 1997 Apr 12;1360(2):102-4
In vivo effect of DNA relaxation on the transcription of gene rpoH in Escherichia coli. López-Sánchez F, et al. **Biochim Biophys Acta** 1997 Jul 17;1353(1):79-83
Cloning and sequence analysis of the dimethylsulfoxide reductase structural gene from Rhodobacter capsulatus. Shaw AL, et al. **Biochim Biophys Acta** 1996 Sep 30; 1276(3):176-80
Identification and analysis of the rpoS-dependent promoter of katE, encoding catalase HPII in Escherichia coli. Tanaka K, et al. **Biochim Biophys Acta** 1997 May 30;1352(2):161-6
Cloning and sequencing of the hup gene encoding the histone-like protein HSl of Streptomyces lividans. Yokoyama E, et al. **Biochim Biophys Acta** 1997 Aug 7; 1353(2):103-6
Structure and regulation of the Salmonella typhimurium rnc-era-recO operon. Anderson PE, et al. **Biochimie** 1996; 78(11-12):1025-34
Molecular cloning and characterization of the pyrB gene of Lactobacillus leichmannii encoding aspartate transcarbamylase. Becker J, et al. **Biochimie** 1996;78(1):3-13
Heterologous expression in Escherichia coli of the gene encoding an archaeal thermoacidophilic elongation factor 2. Properties of the recombinant protein. de Vendittis E, et al. **Biochimie** 1997 May;79(5):303-8
Cloning and overexpression of polypeptide release factor 1 of Thermus thermophilus. Ito K, et al. **Biochimie** 1997 May; 79(5):287-92
Sequence and functional analysis of an Escherichia coli DNA fragment able to complement pqqE and pqqF mutants from Methylobacterium organophilum. Turlin E, et al. **Biochimie** 1996;78(10):823-31
Organization of the Thermus thermophilus nusA/infB operon and overexpression of the infB gene in Escherichia coli. Vornlocher HP, et al. **Biochimie** 1997 Apr;79(4):195-203
Molecular cloning and sequence analysis of the dnaA gene of Staphylococcus aureus. Katayama H, et al. **Biol Pharm Bull** 1997 Jul;20(7):820-2
Phenylmercury transport mediated by merT-merP genes of Pseudomonas K-62 plasmid pMR26. Uno Y, et al. **Biol Pharm Bull** 1997 Jan;20(1):107-9
Site-directed mutagenesis of monofunctional chorismate mutase engineered from the E. coli P-protein. Zhang S, et al. **Bioorg Med Chem** 1996 Jul;4(7):1015-20
Study of tyrosine-containing mutants of ribosomal protein L7/L12 from Escherichia coli. Todorova RT, et al. **Biophys Chem** 1996 Nov 29;62(1-3):39-45
Cycling probe technology with RNase H attached to an oligonucleotide. Bekkaoui F, et al. **Biotechniques** 1996 Feb; 20(2):240-8
Expression in Escherichia coli of thermostable elongation factor 1 alpha from the archaeon Sulfolobus solfataricus. Ianniciello G, et al. **Biotechnol Appl Biochem** 1996 Feb;23 (Pt 1):41-5
Expression of fosB mRNA in the hamster suprachiasmatic nucleus is induced at only selected circadian phases. Guido ME, et al. **Brain Res** 1996 Nov 11;739(1-2):132-8
Diffuse adherence, ST-I enterotoxin and CFA/IV colonization factor are encoded by the same plasmid in the Escherichia coli O29:H21 strain. Silva RM, et al. **Braz J Med Biol Res** 1996 Aug;29(8):969-76
Identification of gene loci controlling pectate lyase production and soft-rot pathogenicity in Pseudomonas marginalis. Liao CH, et al. **Can J Microbiol** 1997 May; 43(5):425-31
Species-specific differences in hepatic mutant frequency and mutational spectrum among lambda/lacI transgenic rats and mice following exposure to aflatoxin B1. Dycaico MJ, et al. **Carcinogenesis** 1996 Nov;17(11):2347-56
Agreement of mutational characteristics of heterocyclic amines in lacI of the Big Blue mouse with those in tumor related genes in rodents. Okonogi H, et al. **Carcinogenesis** 1997 Apr;18(4):745-8
Introduction and expression of an anti-dipteran toxin gene from B. thuringiensis in nodulating Rhizobia. Guerchicoff A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul; 42(5):729-35
Serine acetyltransferase from Arabidopsis thaliana can functionally complement the cysteine requirement of a cysE mutant strain of Escherichia coli. Murillo M, et al. **Cell Mol Biol Res** 1995;41(5):425-33
Mycobacterium tuberculosis efpA encodes an efflux protein of the QacA transporter family. Doran JL, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):23-32
Sequence analysis of the Methanococcus jannaschii genome and the prediction of protein function. Andrade M, et al. **Comput Appl Biosci** 1997 Aug;13(4):481-3
Detection of genes in Escherichia coli sequences determined by genome projects and prediction of protein production levels, based on multivariate diversity in codon usage. Kanaya S, et al. **Comput Appl Biosci** 1996 Jun;12(3):213-25
Purification and gene cloning of a superantigen (YPM) produced by a patient strain of Yersinia pseudotuberculosis. Takeda T, et al. **Contrib Microbiol Immunol** 1995;13:331-3
Studies on the contribution of the F1 capsule-associated plasmid pFra to the virulence of Yersinia pestis. Welkos SL, et al. **Contrib Microbiol Immunol** 1995;13:299-305
Construction of defined F1 negative mutants of virulent Yersinia pestis. Worsham PL, et al. **Contrib Microbiol Immunol** 1995;13:325-8
Genetic analysis of phoP and ompR from Yersinia enterocolitica, Yersinia pseudotuberculosis and Yersinia pestis. Wren BW, et al. **Contrib Microbiol Immunol** 1995; 13:318-20
Two-stage gene regulation of the superoxide stress response soxRS system in Escherichia coli. Nunoshiba T. **Crit Rev Eukaryot Gene Expr** 1996;6(4):377-89 (92 ref.)
GFP tagging of budding yeast chromosomes reveals that protein-protein interactions can mediate sister chromatid cohesion. Straight AF, et al. **Curr Biol** 1996 Dec 1; 6(12):1599-608
MutS homologs in mammalian cells. Fishel R, et al. **Curr Opin Genet Dev** 1997 Feb;7(1):105-13 (84 ref.)
Laboratory diagnosis of chancroid using species-specific primers from Haemophilus ducreyi groEL and the polymerase chain reaction. Parsons LM, et al. **Diagn Microbiol Infect Dis** 1995 Nov;23(3):89-98
The inducible lactose operator-repressor system is functional in the whole animal. Wu JD, et al. **DNA Cell Biol** 1997 Jan;16(1):17-22
Structure of the dnaA region of the endosymbiont, Buchnera aphidicola, of aphid Schizaphis graminum. Hassan AK, et al. **DNA Res** 1996 Dec 31;3(6):415-9
Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions. Kaneko T, et al. **DNA Res** 1996 Jun 30;3(3):109-36
Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions (supplement). Kaneko T, et al. **DNA Res** 1996 Jun 30; 3(3):185-209
Compilation of all genes encoding bacterial two-component signal transducers in the genome of the cyanobacterium, Synechocystis sp. strain PCC 6803. Mizuno T, et al. **DNA Res** 1996 Dec 31;3(6):407-14
Compilation of all genes encoding two-component phosphotransfer signal transducers in the genome of Escherichia coli. Mizuno T. **DNA Res** 1997 Apr 28; 4(2):161-8
Cloning and sequencing of a 27.8-kb nucleotide sequence of the 79 degrees-81 degrees region of the Bacillus subtilis genome containing the sspE locus. Yamamoto H, et al. **DNA Res** 1996 Aug 31;3(4):257-62
Identification, sequences, and expression of Treponema pallidum chemotaxis genes. Greene SR, et al. **DNA Seq** 1997;7(5):267-84
Identification and sequences of the Treponema pallidum flhA, flhF, and orf304 genes. Hardham JM, et al. **DNA Seq** 1997; 7(2):107-16
An ABC-transporter system homolog in an organism of the phylogenetic domain Archaea. Jovell RJ, et al. **DNA Seq** 1997;7(3-4):193-7
Identification and sequences of the Treponema pallidum mglA and mglC genes. Stamm LV, et al. **DNA Seq** 1996; 6(5):293-8
Nucleotide sequence analysis of the Streptococcus gordonii glucosyltransferase gene, gtfG. Vickerman MM, et al. **DNA Seq** 1997;7(2):83-95
Proteome analysis of Spiroplasma melliferum (A56) and protein characterisation across species boundaries. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1335-46
Characterisation of basic proteins from Spiroplasma melliferum using novel immobilised pH gradients. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1393-8
Evaluation of algorithms used for cross-species proteome characterisation. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1410-7
Identifying the major proteome components of Haemophilus influenzae type-strain NCTC 8143. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1314-34
Comparing the predicted and observed properties of proteins encoded in the genome of Escherichia coli K-12. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1259-313 (149 ref.)
The proteome of Salmonella enterica serovar typhimurium: current progress on its determination and some applications. O'Connor CD, et al. **Electrophoresis** 1997 Aug;18(8):1483-90
Towards a proteome project of cyanobacterium Synechocystis sp. strain PCC6803: linking 130 protein spots with their respective genes. Sazuka T, et al. **Electrophoresis** 1997 Aug;18(8):1252-8
'Proteomic contigs' of Mycobacterium tuberculosis and Mycobacterium bovis (BCG) using novel immobilised pH gradients. Urquhart BL, et al. **Electrophoresis** 1997 Aug; 18(8):1384-92
Escherichia coli proteome analysis using the gene-protein database. VanBogelen RA, et al. **Electrophoresis** 1997 Aug; 18(8):1243-51 (47 ref.)
Proteomic 'contigs' of Ochrobactrum anthropi, application of extensive pH gradients. Wasinger VC, et al. **Electrophoresis** 1997 Aug;18(8):1373-83
Spacing of promoter elements regulates the basal expression of the soxS gene and converts SoxR from a transcriptional activator into a repressor. Hidalgo E, et al. **EMBO J** 1997 Mar 3;16(5):1056-65
A novel role of ImmE7 in the autoregulatory expression of the ColE7 operon and identification of possible RNase active sites in the crystal structure of dimeric ImmE7. Hsieh SY, et al. **EMBO J** 1997 Mar 17;16(6):1444-54
Targeting of signal sequenceless proteins for export in Escherichia coli with altered protein translocase. Prinz WA, et al. **EMBO J** 1996 Oct 1;15(19):5209-17
Database and software for the analysis of mutations at the lacI gene in both transgenic rodents and bacteria. Cariello NF, et al. **Environ Mol Mutagen** 1996;28(4):397-404
Mutational spectra of tamoxifen-induced mutations in the livers of lacI transgenic rats. Davies R, et al. **Environ Mol Mutagen** 1996;28(4):430-3
Spectrum of mutations in kidney, stomach, and liver from lacI transgenic mice recovered after treatment with tris(2,3-dibromopropyl)phosphate. de Boer JG, et al. **Environ Mol Mutagen** 1996;28(4):418-23
An efficient laboratory protocol for the sequencing of large numbers of lacI mutants recovered from Big Blue transgenic animals. Erfle HL, et al. **Environ Mol Mutagen** 1996;28(4):393-6
Mutagenic response to benzene and tris(2,3-dibromopropyl)-phosphate in the lambda lacI transgenic mouse mutation assay: a standardized approach to in vivo mutation analysis. Provost GS, et al. **Environ Mol Mutagen** 1996;28(4):342-7
Assessment of 1,3-butadiene mutagenicity in the bone marrow of B6C3F1 lacI transgenic mice (Big Blue): a review of mutational spectrum and lacI mutant frequency after a 5-day 625 ppm 1,3-butadiene exposure. Recio L, et al. **Environ Mol Mutagen** 1996;28(4):424-9
Mutagenic response of the endogenous hprt gene and lacI transgene in benzo[a]pyrene-treated Big Blue B6C3F1 mice. Skopek TR, et al. **Environ Mol Mutagen** 1996; 28(4):376-84
5-Azacytidine-induced 6-thioguanine resistance at the gpt locus in AS52 cells: cellular response. Spencer DL, et al. **Environ Mol Mutagen** 1996;28(2):100-6
The genetic analysis of lacI mutations in sectored plaques from Big Blue transgenic mice. Stuart GR, et al. **Environ Mol Mutagen** 1996;28(4):385-92
Organ variation in the mutagenicity of dimethylnitrosamine

in Big Blue mice. Suzuki T, et al. **Environ Mol Mutagen** 1996;28(4):348–53

Parameters affecting the use of the lac repressor system in eukaryotic cells and transgenic animals. Wyborski DL, et al. **Environ Mol Mutagen** 1996;28(4):447–58

Spontaneous and ethylnitrosourea-induced mutation fixation and molecular spectra at the lacI transgene in the Big Blue rat-2 embryo cell line. Zimmer DM, et al. **Environ Mol Mutagen** 1996;28(4):325–33

PCR-RFLP typing of ureC from Helicobacter pylori isolated in Argentina from gastric biopsies before and after treatment with clarithromycin. Stone GG, et al. **Epidemiol Infect** 1997 Apr;118(2):119–24

Mutations in the 1.1 subdomain of Escherichia coli sigma factor sigma70 and disruption of its overall structure. Gopal V, et al. **Eur J Biochem** 1997 Mar 1;244(2):613–8

Specific binding of DnaA protein to a DnaA box in the guaB gene of Escherichia coli K12. Tesfa-Selase F, et al. **Eur J Biochem** 1996 Oct 15;241(2):411–6

Expression of the Zymomonas mobilis gfo gene or NADP-containing glucose:fructose oxidoreductase (GFOR) in Escherichia coli. Formation of enzymatically active preGFOR but lack of processing into a stable periplasmic protein. Wiegert T, et al. **Eur J Biochem** 1997 Feb 15;244(1):107–12

Comparison of disk diffusion, the E test, and detection of mecA for determination of methicillin resistance in coagulase-negative staphylococci. Mulder JG. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):567–73

Wolbachia: intracellular manipulators of mite reproduction. Breeuwer JA, et al. **Exp Appl Acarol** 1996 Aug;20(8):421–34

Genetic inactivation of the H(+)-translocating NADH:ubiquinone oxidoreductase of Paracoccus denitrificans is facilitated by insertion of the ndh gene from Escherichia coli. Finel M. **FEBS Lett** 1996 Sep 9; 393(1):81–5

Phage display of Bacillus thuringiensis CryIA(a) insecticidal toxin. Marzari R, et al. **FEBS Lett** 1997 Jul 7;411(1):27–31

Isolation and characterisation of a cDNA encoding rat mitochondrial GrpE, a stress-inducible nucleotide-exchange factor of ubiquitous appearance in mammalian organs. Naylor DJ, et al. **FEBS Lett** 1996 Nov 4;396(2–3):181–8

Bacillus subtilis DegU acts as a positive regulator for comK expression. Ogura M, et al. **FEBS Lett** 1996 Nov 18; 397(2–3):173–6

Amounts of proteins altered by mutations in the dnaA gene of Escherichia coli. Ohba A, et al. **FEBS Lett** 1997 Mar 10;404(2–3):125–8

A novel delta-endotoxin gene cryIM from Bacillus thuringiensis ssp. wuhanensis. Shevelev AB, et al. **FEBS Lett** 1997 Mar 10;404(2–3):148–52

Invasion of tissue culture cells by diarrhoeagenic strains of Escherichia coli which lack the enteroinvasive inv gene. Geyid A, et al. **FEMS Immunol Med Microbiol** 1996 May; 14(1):15–24

Molecular analysis of clinical group B streptococcal strains by use of alpha and beta gene probes. Suvorov A, et al. **FEMS Immunol Med Microbiol** 1997 Mar;17(3):149–54

pH6 antigen (PsaA protein) of Yersinia pestis, a novel bacterial Fc-receptor. Zav'yalov VP, et al. **FEMS Immunol Med Microbiol** 1996 May;14(1):53–7

Ehrlichia sennetsu groE operon and antigenic properties of the GroEL homolog. Zhang Y, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):39–46

The NAD synthetase NadE (OutB) of Bacillus subtilis is a sigma B-dependent general stress protein. Antelmann H, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):405–9

Genomic organization of purK and purE in Brevibacterium ammoniagenes ATCC 6872: purE locus provides a clue for genomic evolution. Chung SO, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):265–8

Distribution of the synergistic haemolysin genes hld and slush with respect to agr in human staphylococci. Donvito B, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):139–44

Impaired oxidative stress resistance of Bacillus subtilis sigB mutants and the role of katA and katE. Engelmann S, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):63–9

Identification of the serine acetyltransferase gene of Staphylococcus xylosus. Fiegler H, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):181–7

Dissection of the promoter/operator region and evaluation of N-acylhomoserine lactone mediated transcriptional regulation of elastase expression in Pseudomonas aeruginosa. Fukushima J, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):311–8

Mutations in Bacillus subtilis PyrR, the pyr regulatory protein, with defects in regulation by pyrimidines. Ghim SY, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):13–8

Transcription of the Campylobacter jejuni cell division gene ftsA. Griffiths PL, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):83–7

The structural gene for rusticyanin from Thiobacillus ferrooxidans: cloning and sequencing of the rusticyanin gene. Hall JF, et al. **FEMS Microbiol Lett** 1996 Mar 15; 137(1):85–9

Novel FNR homologues identified in four representative oral facultative anaerobes: Capnocytophaga ochracea, Capnocytophaga sputigena, Haemophilus aphrophilus, and Actinobacillus actinomycetemcomitans. Hattori T, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):213–20

Isolation and characterization of the integration host factor genes of Pasteurella haemolytica. Highlander SK, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):181–8

Complementation of Listeria seeligeri with the plcA-prfA genes from L. monocytogenes activates transcription of seeligerolysin and leads to bacterial escape from the phagosome of infected mammalian cells. Karunasagar I, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):303–10

Variation in the agr-dependent expression of alpha-toxin and protein A among clinical isolates of Staphylococcus aureus from patients with septicaemia. Li S, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):155–61

Relationship between pathogenicity of Coxiella burnetii isolates and gene sequences of the macrophage infectivity potentiator (Cbmip) and sensor-like protein (qrsA). Masuzawa T, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):201–5

Cloning and nucleotide sequence of the mphB gene for macrolide 2'-phosphotransferase II in Escherichia coli. Noguchi N, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2–3):197–202

Transcriptional analysis of the sigA and sigB genes of Brevibacterium lactofermentum. Oguiza JA, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):111–7

Sequence diversity of a gene encoding a putative primary sigma factor among Borrelia burgdorferi sensu lato strains. Pan MJ, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):153–8

Deletion of the putative effector region of Era, an essential GTP-binding protein in Escherichia coli, causes a dominant-negative phenotype. Pillutla RC, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):47–55

Impact of sar and agr on methicillin resistance in Staphylococcus aureus. Píriz Durán S, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):255–60

Cloning and sequencing of the novel abortive infection gene abiH of Lactococcus lactis ssp. lactis biovar. diacetylactis S94. Prévots F, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):295–9

An archaebacterial homolog of pelota, a meiotic cell division protein in eukaryotes. Ragan MA, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):151–5

Influence of the 20-kDa protein from Bacillus thuringiensis ssp. israelensis on the rate of production of truncated Cry1C proteins. Rang C, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):261–4

Modification of the plasmid initiator protein RepC active site during replication. Rasooly A, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):245–53

A collagen binding protein from Lactobacillus reuteri is part of an ABC transporter system? Roos S, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):33–8

Functional interactions between homologous conditional killer systems of plasmid and chromosomal origin. Santos-Sierra S, et al. **FEMS Microbiol Lett** 1997 Jul 1; 152(1):51–6

Identification and characterization of an aadB gene cassette at a secondary site in a plasmid from Acinetobacter. Segal H, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):321–6

Characterization of dnaA gene expression in Mycoplasma capricolum. Seto S, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):239–47

Mutational analysis of Era, an essential GTP-binding protein of Escherichia coli. Shimamoto T, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):57–62

Involvement of iclR and rpoS in the induction of acs, the gene for acetyl coenzyme A synthetase of Escherichia coli K-12. Shin S, et al. **FEMS Microbiol Lett** 1997 Jan 1; 146(1):103–8

The rpoD gene functions as a multicopy suppressor for mutations in the chaperones, CbpA, DnaJ and DnaK, in Escherichia coli. Shiozawa T, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):245–50

Is the CvaA protein, encoded within the colicin V export gene cvaA, required for colicin V transport? Skvirsky RC, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):201–6

Cloning and transcriptional analysis of the lipA (lipoic acid synthetase) gene from Rhizobium etli. Taté R, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):165–72

Cloning and characterization of the groE locus from Actinobacillus pleuropneumoniae. Vézina G, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):11–6

The role of the mutT gene of Escherichia coli in maintaining replication fidelity. Fowler RG, et al. **FEMS Microbiol Rev** 1997 Aug;21(1):43–54 (90 ref.)

Role of Escherichia coli rpoS and associated genes in defense against oxidative damage. Eisenstark A, et al. **Free Radic Biol Med** 1996;21(7):975–93 (130 ref.)

Role of rpoS regulon in resistance to oxidative stress and near-UV radiation in delta oxyR suppressor mutants of Escherichia coli. Ivanova AB, et al. **Free Radic Biol Med** 1997;23(4):627–36

Clinical and pathological importance of heterogeneity in vacA, the vacuolating cytotoxin gene of Helicobacter pylori. Atherton JC, et al. **Gastroenterology** 1997 Jan; 112(1):92–9

The fur gene from Klebsiella pneumoniae: characterization, genomic organization and phylogenetic analysis. Achenbach LA, et al. **Gene** 1997 Feb 7;185(2):201–7

Isolation and characterization of csbB, a gene controlled by Bacillus subtilis general stress transcription factor sigma B. Akbar S, et al. **Gene** 1996 Oct 24;177(1–2):123–8

Cloning and characterization of femA and femB from Staphylococcus epidermidis. Alborn WE Jr, et al. **Gene** 1996 Nov 21;180(1–2):177–81

Genes involved in the biogenesis and function of type-4 fimbriae in Pseudomonas aeruginosa. Alm RA, et al. **Gene** 1997 Jun 11;192(1):89–98

Complementation of divergent mga genes in group A Streptococcus. Andersson G, et al. **Gene** 1996 Oct 10; 175(1–2):77–81

A tightly regulated high level expression vector that utilizes a thermosensitive lac repressor: production of the human T cell receptor V beta 5.3 in Escherichia coli. Andrews B, et al. **Gene** 1996 Dec 5;182(1–2):101–9

Characterization of the secA gene of Streptomyces lividans encoding a protein translocase which complements and Escherichia coli mutant defective in the ATPase activity of SecA. Blanco J, et al. **Gene** 1996 Oct 17;176(1–2):61–5

Characterization of Campylobacter upsaliensis fur and its localization in a highly conserved region of the Campylobacter genome. Bourke B, et al. **Gene** 1996 Dec 12;183(1–2):219–24

Cloning and phylogenetic analysis of the genes encoding acetohydroxyacid synthase from the archaeon Methanococcus aeolicus. Bowen TL, et al. **Gene** 1997 Mar 25;188(1):77–84

The role of the nodI and nodJ genes in the transport of Nod metabolites in Rhizobium etli. Cárdenas L, et al. **Gene** 1996 Sep 16;173(2):183–7

Cloning and sequencing of a Haemophilus ducreyi fur homolog. Carson SD, et al. **Gene** 1996 Oct 17; 176(1–2):125–9

Cloning and characterization of the gene (empV) encoding extracellular metalloprotease from Vibrio vulnificus. Chuang YC, et al. **Gene** 1997 Apr 21;189(2):163–8

Molecular genetic analysis of type-4 pilus biogenesis and twitching motility using Pseudomonas aeruginosa as a model system--a review. Darzins A, et al. **Gene** 1997 Jun 11;192(1):109–15 (56 ref.)

Isolation and characterisation of a linked cluster of genes from Agrobacterium tumefaciens encoding proteins involved in flagellar basal-body structure. Deakin WJ, et al. **Gene** 1997 Apr 11;189(1):135–7

The Agrobacterium tumefaciens motor gene, motA, is in a linked cluster with the flagellar switch protein genes, fliG, fliM and fliN. Deakin WJ, et al. **Gene** 1997 Apr 11; 189(1):139–41

Isolation and characterization of the Haemophilus influenzae uvrA gene. de la Morena ML, et al. **Gene** 1996 Oct 24; 177(1–2):23–8

Redox signaling and gene control in the Escherichia coli soxRS oxidative stress regulon--a review. Demple B. **Gene** 1996 Nov 7;179(1):53–7 (25 ref.)

Protein-encoding genes in the sulfothermophilic archaea Sulfolobus and Pyrococcus. De Vendittis E, et al. **Gene** 1996 Oct 17;176(1–2):27–33

The use of an improved transposon mutagenesis system for DNA sequencing leads to the characterization of a new insertion sequence of Streptomyces lividans 66. Fischer J, et al. **Gene** 1996 Nov 21;180(1–2):81–9

Molecular analysis of tlrD, an MLS resistance determinant from the tylosin producer, Streptomyces fradiae. Gandecha AR, et al. **Gene** 1996 Nov 21;180(1–2):173–6

A novel Escherichia coli vector for oxygen-inducible high level expression of foreign genes. Gao B, et al. **Gene** 1996 Oct 17;176(1–2):269–70

Sequence and transcriptional analysis of clpX, a class-III heat-shock gene of Bacillus subtilis. Gerth U, et al. **Gene** 1996 Nov 28;181(1–2):77–83

Analysis of the alcABC operon encoding alcaligin biosynthesis enzymes in Bordetella bronchiseptica. Giardina PC, et al. **Gene** 1997 Jul 18;194(1):19–24

Cloning and nucleotide sequence of a flagellin encoding genetic locus from Xenorhabdus nematophilus: phase variation leads to differential transcription of two flagellar genes (fliCD). Givaudan A, et al. **Gene** 1996 Dec 12; 183(1–2):243–53

Cloning and characterization of the exbB-exbD-tonB locus of Pasteurella haemolytica A1. Graham MR, et al. **Gene** 1997 Feb 28;186(2):201–5

Homologs of Escherichia coli recJ, gltX and of a putative 'early' gene of avian Chlamydia psittaci are located upstream of the 'late' omp2 locus of Chlamydia psittaci strain guinea pig inclusion conjunctivitis. Hsia RC, et al. **Gene** 1996 Oct 17;176(1–2):163–9

Gene cloning and sequencing, and enzyme purification of the malate synthase of Streptomyces arenae. Hüttner S, et al. **Gene** 1997 Apr 1;188(2):239–46

Translocation failure in a type-4 pilin operon: rfb and tcpT mutants in Vibrio cholerae. Iredell JR, et al. **Gene** 1997 Jun 11;192(1):71–7

ABC transporters in Archaea: two genes encoding homologs of the nucleotide-binding components in the methanogen Methanosarcina mazei S-6. Jovell RJ, et al. **Gene** 1996 Oct 3;174(2):281–4

Nucleotide sequence of the Escherichia coli solA gene encoding a sarcosine oxidase-like protein and characterization of its product. Koyama Y, et al. **Gene** 1996 Nov 28;181(1–2):179–83

Bacillus caldolyticus prs gene encoding phosphoribosyl-diphosphate synthase. Krath BN, et al. **Gene** 1996 Oct 17;176(1–2):73–9

Sequence and genetic analysis of the hemin storage (hms) system of Yersinia pestis. Lillard JW Jr, et al. **Gene** 1997

Jul 1;193(1):13–21

Stable high–copy–number bacteriophage lambda promoter vectors for overproduction of proteins in Escherichia coli. Love CA, et al. **Gene** 1996 Oct 17;176(1–2):49–53

Identification, isolation and sequence of the Aspergillus nidulans xlnC gene encoding the 34–kDa xylanase. MacCabe AP, et al. **Gene** 1996 Oct 10;175(1–2):29–33

Molecular mechanisms of intramolecular recombination–dependent recircularization of linearized plasmid DNA in Escherichia coli: requirements for the ruvA, ruvB, recG, recF and recR gene products. McFarlane RJ, et al. **Gene** 1996 Oct 24;177(1–2):209–16

Characterisation of the pvdE gene which is required for pyoverdine synthesis in Pseudomonas aeruginosa. McMorran BJ, et al. **Gene** 1996 Oct 17;176(1–2):55–9

The tcp gene cluster of Vibrio cholerae. Manning PA. **Gene** 1997 Jun 11;192(1):63–70

A new Bacillus subtilis gene with homology to Escherichia coli prc. Marasco R, et al. **Gene** 1996 Dec 12; 183(1–2):149–52

Cloning, sequencing and expressing the carotenoid biosynthesis genes, lycopene cyclase and phytoene desaturase, from the aerobic photosynthetic bacterium Erythrobacter longus sp. strain Och101 in Escherichia coli. Matsumura H, et al. **Gene** 1997 Apr 21;189(2):169–74

The major subunit ClpG of Escherichia coli CS31A fibrillae as an expression vector for different combinations of two TGEV coronavirus epitopes. Méchin MC, et al. **Gene** 1996 Nov 14;179(2):211–8

The galE gene encoding the UDP–galactose 4–epimerase of Brevibacterium lactofermentum is coupled transcriptionally to the dmdR gene. Oguiza JA, et al. **Gene** 1996 Oct 24; 177(1–2):103–7

Cloning and sequencing of the secY homolog from Streptomyces lividans 1326. Ostiguy S, et al. **Gene** 1996 Oct 17;176(1–2):265–7

Sequencing and phylogenetic analysis of the spoIIA operon from diverse Bacillus and Paenibacillus species. Park SG, et al. **Gene** 1997 Jul 18;194(1):25–33

Nucleotide sequence of the Bacillus coagulans homologue of the spoIIA operon of Bacillus subtilis. Park SG, et al. **Gene** 1996 Oct 24;177(1–2):275–6

Cloning, nucleotide sequence and characterization of the rpoD gene encoding the primary sigma factor of Rhodobacter capsulatus. Pasternak C, et al. **Gene** 1996 Oct 17;176(1–2):177–84

A mgl–like operon in Treponema pallidum, the syphilis spirochete. Porcella SF, et al. **Gene** 1996 Oct 24; 177(1–2):115–21

Novel phosphotransferase–encoding genes revealed by analysis of the Escherichia coli genome: a chimeric gene encoding an Enzyme I homologue that possesses a putative sensory transduction domain. Reizer J, et al. **Gene** 1996 Nov 28;181(1–2):103–8

Minimal functional system required for expression of erythromycin resistance by msrA in Staphylococcus aureus RN4220. Ross JI, et al. **Gene** 1996 Dec 12;183(1–2):143–8

The rpoH gene encoding sigma 32 homolog of Vibrio cholerae. Sahu GK, et al. **Gene** 1997 Apr 21;189(2):203–7

Molecular characterization of a family of choline–binding proteins of Clostridium beijerinckii NCIB 8052. Evolution and gene redundancy in prokaryotic cell. Sánchez–Beato AR, et al. **Gene** 1996 Nov 21;180(1–2):13–21

Transcriptional analysis and regulation of carnobacteriocin production in Carnobacterium piscicola LV17. Saucier L, et al. **Gene** 1997 Apr 1;188(2):271–7

Characterization of spaA, a Streptomyces coelicolor gene homologous to a gene involved in sensing starvation in Escherichia coli. Schneider D, et al. **Gene** 1996 Oct 24; 177(1–2):243–51

Two new members of the bio B superfamily: cloning, sequencing and expression of bio B genes of Methylobacillus flagellatum and Corynebacterium glutamicum. Serebriiskii IG, et al. **Gene** 1996 Oct 10; 175(1–2):15–22

Cloning and sequence analysis of zooA, a Streptococcus zooepidemicus gene encoding a bacteriocin–like inhibitory substance having a domain structure similar to that of lysostaphin. Simmonds RS, et al. **Gene** 1997 Apr 21; 189(2):255–61

A Bacillus subtilis locus encoding several gene products affecting transport of cations. Sturr MG, et al. **Gene** 1997 Mar 25;188(1):91–4

Resistance to ultraviolet light in Pseudomonas syringae: sequence and functional analysis of the plasmid–encoded rulAB genes. Sundin GW, et al. **Gene** 1996 Oct 24; 177(1–2):77–81

Oligonucleotides identify conserved and variable regions of pspA and pspA–like sequences of Streptococcus pneumoniae. Swiatlo E, et al. **Gene** 1997 Apr 1; 188(2):279–84

Transcriptional analysis of the groESL operon of Neisseria gonorrhoeae. Tauschek M, et al. **Gene** 1997 Apr 11; 189(1):107–12

An M. tuberculosis DNA fragment contains genes encoding cell division proteins ftsX and ftsE, a basic protein and homologues of PemK and small protein B. Tyagi JS, et al. **Gene** 1996 Oct 24;177(1–2):59–67

Two ras genes in Dictyostelium minutum show high sequence homology, but different developmental regulation from Dictyostelium discoideum rasD and rasG genes. van Es S, et al. **Gene** 1997 Mar 10;187(1):93–7

A novel plasmid vector that uses the glucose kinase gene (glkA) for the positive selection of stable gene disruptants in Streptomyces. van Wezel GP, et al. **Gene** 1996 Dec 5; 182(1–2):229–30

A Shigella flexneri invasion plasmid gene, ipgH, with homology to IS629 and sequences encoding bacterial sugar phosphate transport proteins. Venkatesan MM, et al. **Gene** 1996 Oct 10;175(1–2):23–7

Functional expression of heterologous type 4 fimbriae in Pseudomonas aeruginosa. Watson AA, et al. **Gene** 1996 Oct 10;175(1–2):143–50

Identification of a gene, pilF, required for type 4 fimbrial biogenesis and twitching motility in Pseudomonas aeruginosa. Watson AA, et al. **Gene** 1996 Nov 21; 180(1–2):49–56

Transcriptional pattern of Escherichia coli ihfB (himD) gene expression. Węgleńska A, et al. **Gene** 1996 Nov 28; 181(1–2):85–8

Cloning and characterization of the Actinobacillus actinomycetemcomitans gene encoding a heat–shock protein 90 homologue. Winston JL, et al. **Gene** 1996 Nov 14;179(2):199–204

Isolation and characterization of the Erwinia herbicola bio operon and the sequences of the bioA and bioB genes. Wu CH, et al. **Gene** 1996 Oct 3;174(2):251–8

The Bacillus subtilis chromosome region near 78 degrees contains the genes encoding a new two–component system, three ABC transporters and a lipase. Yamamoto H, et al. **Gene** 1996 Nov 28;181(1–2):147–51

Cloning and sequencing of a 35.7 kb in the 70 degree–73 degree region of the Bacillus subtilis genome reveal genes for a new two–component system, three spore germination proteins, an iron uptake system and a general stress response protein. Yamamoto H, et al. **Gene** 1997 Jul 31;194(2):191–9

A Leuconostoc lactis protein with homology to ribosomal protein S1 shares common epitopes and common DNA binding properties with a mammalian DNA binding nuclear factor. Yamit–Hezi A, et al. **Gene** 1997 Jan 31;185(1):99–103

Molecular characterization of a gene encoding a membrane protein of Spiroplasma citri. Ye F, et al. **Gene** 1997 Apr 11;189(1):95–100

Identification of a second transcriptional start site for the insecticidal protein gene cryIVA of Bacillus thuringiensis subsp. israelensis. Yoshisue H, et al. **Gene** 1997 Feb 7; 185(2):251–5

Cloning and sequencing of the gene for a 120–kDa immunodominant protein of Ehrlichia chaffeensis. Yu XJ, et al. **Gene** 1997 Jan 15;184(2):149–54

A Francisella tularensis DNA clone complements Escherichia coli defective for the production of Era, an essential Ras–like GTP–binding protein. Zuber M, et al. **Gene** 1997 Apr 11;189(1):31–4

Immunization with a plasmid expressing pneumococcal surface protein A (PspA) can elicit protection against fatal infection with Streptococcus pneumoniae. McDaniel LS, et al. **Gene Ther** 1997 Apr;4(4):375–7

The sbcC and sbcD genes of Escherichia coli encode a nuclease involved in palindrome inviability and genetic recombination. Connelly JC, et al. **Genes Cells** 1996 Mar; 1(3):285–91

Protein inheritance: lambda plasmid replication perpetuated by the heritable replication complex. Węgrzyn A, et al. **Genes Cells** 1996 Nov;1(11):953–63

Mismatch repair protein MutL becomes limiting during stationary–phase mutation. Harris RS, et al. **Genes Dev** 1997 Sep 15;11(18):2426–37

Biochemical characterization of a molecular switch involving the heat shock protein ClpC, which controls the activity of ComK, the competence transcription factor of Bacillus subtilis. Turgay K, et al. **Genes Dev** 1997 Jan 1;11(1):119–28

Molecular cloning and functional analysis of an rpoS homologue gene from Vibrio cholerae N86. Hiratsu K, et al. **Genes Genet Syst** 1997 Apr;72(2):115–8

A biotinylated MutS fusion protein and its use in a rapid mutation screening technique. Geschwind DH, et al. **Genet Anal** 1996 Oct;13(4):105–11

Mutational analysis of the rolA gene of Agrobacterium rhizogenes in tobacco: function of the rolA pre–mRNA intron and rolA proteins defective in their biological activity. Spena A, et al. **Genet Res** 1997 Feb;69(1):11–5

Bacterial interspersed mosaic elements (BIMEs) are a major source of sequence polymorphism in Escherichia coli intergenic regions including specific associations with a new insertion sequence. Bachellier S, et al. **Genetics** 1997 Mar;145(3):551–62

Mosaic structure of plasmids from natural populations of Escherichia coli. Boyd EF, et al. **Genetics** 1996 Jul; 143(3):1091–100

Isolation and characterization of suppressors of two Escherichia coli dnaG mutations, dnaG2903 and parB. Britton RA, et al. **Genetics** 1997 Apr;145(4):867–75

MutS, proofreading and cancer. Cox EC. **Genetics** 1997 Jun; 146(2):443–6

Mating type in Chlamydomonas is specified by mid, the minus–dominance gene. Ferris PJ, et al. **Genetics** 1997 Jul; 146(3):859–69

Opposing roles of the holliday junction processing systems of Escherichia coli in recombination–dependent adaptive mutation. Harris RS, et al. **Genetics** 1996 Mar;142(3):681–91

Recombination–dependent growth in exonuclease–depleted recBC sbcBC strains of Escherichia coli K–12. Ryder L, et al. **Genetics** 1996 Jul;143(3):1101–14.

Gain–of–function mutations in TnsC, an ATP–dependent transposition protein that activates the bacterial transposon Tn7. Stellwagen AE, et al. **Genetics** 1997 Mar; 145(3):573–85

Gene transfer using a novel fusion protein, GAL4/invasin. Paul RW, et al. **Hum Gene Ther** 1997 Jul 1;8(10):1253–62

Characterization of two virulence proteins secreted by rabbit enteropathogenic Escherichia coli, EspA and EspB, whose maximal expression is sensitive to host body temperature. Abe A, et al. **Infect Immun** 1997 Sep;65(9):3547–55

Anaplasma marginale major surface protein 3 is encoded by a polymorphic, multigene family. Alleman AR, et al. **Infect Immun** 1997 Jan;65(1):156–63

Synergistic effect of mutations in invA and lpfC on the ability of Salmonella typhimurium to cause murine typhoid. Bäumler AJ, et al. **Infect Immun** 1997 Jun;65(6):2254–9

Sequence heterogeneity of PsaA, a 37–kilodalton putative adhesin essential for virulence of Streptococcus pneumoniae. Berry AM, et al. **Infect Immun** 1996 Dec; 64(12):5255–62

Staphylococcal accessory regulator (sar) in conjunction with agr contributes to Staphylococcus aureus virulence in endophthalmitis. Booth MC, et al. **Infect Immun** 1997 Apr; 65(4):1550–6

Mucoid Pseudomonas aeruginosa in cystic fibrosis: characterization of muc mutations in clinical isolates and analysis of clearance in a mouse model of respiratory infection. Boucher JC, et al. **Infect Immun** 1997 Sep; 65(9):3838–46

Conservation of the 15–kilodalton lipoprotein among Treponema pallidum subspecies and strains and other pathogenic treponemes: genetic and antigenic analyses. Centurion–Lara A, et al. **Infect Immun** 1997 Apr; 65(4):1440–4

Expression of Salmonella typhimurium rpoS and rpoS–dependent genes in the intracellular environment of eukaryotic cells. Chen CY, et al. **Infect Immun** 1996 Nov; 64(11):4739–43

Invasion of murine intestinal M cells by Salmonella typhimurium inv mutants severely deficient for invasion of cultured cells. Clark MA, et al. **Infect Immun** 1996 Oct; 64(10):4363–8

Identification and characterization of a novel PrfA–regulated gene in Listeria monocytogenes whose product, IrpA, is highly homologous to internalin proteins, which contain leucine–rich repeats. Domann E, et al. **Infect Immun** 1997 Jan;65(1):101–9

Synergistic hemolytic activity of Staphylococcus lugdunensis is mediated by three peptides encoded by a non–agr genetic locus. Donvito B, et al. **Infect Immun** 1997 Jan;65(1):95–100

Identification of four new members of the internalin multigene family of Listeria monocytogenes EGD. Dramsi S, et al. **Infect Immun** 1997 May;65(5):1615–25

Characterization of the nucleotide sequence of the groE operon encoding heat shock proteins chaperone–60 and –10 of Francisella tularensis and determination of the T–cell response to the proteins in individuals vaccinated with F. tularensis. Ericsson M, et al. **Infect Immun** 1997 May; 65(5):1824–9

Transcriptional regulation of the Staphylococcus aureus collagen adhesion gene, cna. Gillaspy AF, et al. **Infect Immun** 1997 Apr;65(4):1536–40

Naturally occurring deletions in the centisome 63 pathogenicity island of environmental isolates of Salmonella spp. Ginocchio CC, et al. **Infect Immun** 1997 Apr;65(4):1267–72

Expression of the inlAB operon by Listeria monocytogenes is not required for entry into hepatic cells in vivo. Gregory SH, et al. **Infect Immun** 1996 Oct;64(10):3983–6

Reevaluation of the virulence phenotype of the inv yadA double mutants of Yersinia pseudotuberculosis. Han YW, et al. **Infect Immun** 1997 Jan;65(1):327–30

An iron– and fur–repressed Legionella pneumophila gene that promotes intracellular infection and encodes a protein with similarity to the Escherichia coli aerobactin synthetases. Hickey EK, et al. **Infect Immun** 1997 Jan; 65(1):133–43

Decreased intracellular survival of an fkpA mutant of Salmonella typhimurium Copenhagen. Horne SM, et al. **Infect Immun** 1997 Feb;65(2):806–10

Characterization of the Treponema denticola prtP gene encoding a prolyl–phenylalanine–specific protease (dentilisin). Ishihara K, et al. **Infect Immun** 1996 Dec; 64(12):5178–86

Effect of growth phase and acid shock on Helicobacter pylori cagA expression. Karita M, et al. **Infect Immun** 1996 Nov; 64(11):4501–7

The hemagglutinin genes hagB and hagC of Porphyromonas gingivalis are transcribed in vivo as shown by use of a new expression vector. Lee SW, et al. **Infect Immun** 1996 Nov;64(11):4802–10

Molecular cloning, purification, and serological characterization of MPT63, a novel antigen secreted by Mycobacterium tuberculosis. Manca C, et al. **Infect Immun** 1997 Jan;65(1):16–23

Analysis of the genes encoding the antigen 85 complex and MPT51 from Mycobacterium avium. Ohara N, et al. **Infect Immun** 1997 Sep;65(9):3680–5

Examination of diarrheagenicity of cytolethal distending toxin: suckling mouse response to the products of the cdtABC genes of Shigella dysenteriae. Okuda J, et al. **Infect Immun** 1997 Feb;65(2):428–33

Lack of the extracellular 19-kilodalton fibrinogen-binding protein from Staphylococcus aureus decreases virulence in experimental wound infection. Palma M, et al. **Infect Immun** 1996 Dec;64(12):5284-9

Molecular definition and identification of new proteins of Mycobacterium leprae. Pessolani MC, et al. **Infect Immun** 1996 Dec;64(12):5425-7

Molecular characterization of a major serotype M49 group A streptococcal DNase gene (sdaD). Podbielski A, et al. **Infect Immun** 1996 Dec;64(12):5349-56

Evidence that PrfA, the pleiotropic activator of virulence genes in Listeria monocytogenes, can be present but inactive. Renzoni A, et al. **Infect Immun** 1997 Apr; 65(4):1515-8

Role of adherence in interleukin-8 induction in Helicobacter pylori-associated gastritis. Rieder G, et al. **Infect Immun** 1997 Sep;65(9):3622-30

Limited diversity of Streptococcus pneumoniae psaA among pneumococcal vaccine serotypes. Sampson JS, et al. **Infect Immun** 1997 May;65(5):1967-71

Characterization of the fim2 and fim3 fimbrial subunit genes of Bordetella bronchiseptica: roles of Fim2 and Fim3 fimbriae and flagella in adhesion. Savelkoul PH, et al. **Infect Immun** 1996 Dec;64(12):5098-105

Virulence plasmid instability in Shigella flexneri 2a is induced by virulence gene expression. Schuch R, et al. **Infect Immun** 1997 Sep;65(9):3686-92

Differences in virulence and in expression of PrfA and PrfA-regulated virulence genes of Listeria monocytogenes strains belonging to serogroup 4. Sokolovic Z, et al. **Infect Immun** 1996 Oct;64(10):4008-19

An Edwardsiella tarda strain containing a mutation in a gene with homology to shlB and hpmB is defective for entry into epithelial cells in culture. Strauss EJ, et al. **Infect Immun** 1997 Sep;65(9):3924-32

Cloning of the glutamine synthetase gene from group B streptococci. Suvorov AN, et al. **Infect Immun** 1997 Jan; 65(1):191-6

Avirulence of LT2 strains of Salmonella typhimurium results from a defective rpoS gene. Swords WE, et al. **Infect Immun** 1997 Jun;65(6):2451-3

Safety of live oral Salmonella typhi vaccine strains with deletions in htrA and aroC aroD and immune response in humans. Tacket CO, et al. **Infect Immun** 1997 Feb; 65(2):452-6

Comparison of the sequences and functions of Streptococcus equi M-like proteins SeM and SzPSe. Timoney JF, et al. **Infect Immun** 1997 Sep;65(9):3600-5

Expression of the Yersinia pestis capsular antigen (F1 antigen) on the surface of an aroA mutant of Salmonella typhimurium induces high levels of protection against plague. Titball RW, et al. **Infect Immun** 1997 May; 65(5):1926-30

Cloning, nucleotide sequence, and expression of the gene coding for a ribosome releasing factor-homologous protein of Brucella melitensis. Vizcaíno N, et al. **Infect Immun** 1996 Nov;64(11):4834-7

Increased intracellular survival of Mycobacterium smegmatis containing the Mycobacterium leprae thioredoxin-thioredoxin reductase gene. Wieles B, et al. **Infect Immun** 1997 Jul;65(7):2537-41

An altered rpoS allele contributes to the avirulence of Salmonella typhimurium LT2. Wilmes-Riesenberg MR, et al. **Infect Immun** 1997 Jan;65(1):203-10

Expression of the human cell surface glycoconjugates Lewis x and Lewis y by Helicobacter pylori isolates is related to cagA status. Wirth HP, et al. **Infect Immun** 1996 Nov; 64(11):4598-605

Environmental regulation of fimbrial gene expression in Porphyromonas gingivalis. Xie H, et al. **Infect Immun** 1997 Jun;65(6):2265-71

Synthesis and function of Actinomyces naeslundii T14V type 1 fimbriae require the expression of additional fimbria-associated genes. Yeung MK, et al. **Infect Immun** 1997 Jul;65(7):2629-39

Molecular identification of a Wolbachia endosymbiont in a Tetranychus urticae strain (Acari: Tetranychidae). Tsagkarakou A, et al. **Insect Mol Biol** 1996 Aug;5(3):217-21

Generation of chromophore Tyr-containing mutants of the ribosomal protein L7/L12 from Escherichia coli by site-directed mutagenesis and characterization. Todorova R. **Int J Biochem Cell Biol** 1997 May;29(5):841-8

Characterisation of a selenophosphate synthetase from a collection of P-lacW insertion mutants in Drosophila. Alsina B, et al. **Int J Dev Biol** 1996;Suppl 1:85S

Methicillin susceptibility testing of staphylococci by Etest and comparison with agar dilution and mecA detection. Weller TM, et al. **J Antimicrob Chemother** 1997 Feb; 39(2):251-3

Identification and characterization of uvrA, a DNA repair gene of Deinococcus radiodurans. Agostini HJ, et al. **J Bacteriol** 1996 Dec;178(23):6759-65

Cloning, DNA sequencing, and expression of the gene encoding Clostridium thermocellum cellulase CelJ, the largest catalytic component of the cellulosome. Ahsan MM, et al. **J Bacteriol** 1996 Oct;178(19):5732-40

The type III (Hrp) secretion pathway of plant pathogenic bacteria: trafficking harpins, Avr proteins, and death. Alfano JR, et al. **J Bacteriol** 1997 Sep;179(18):5655-62 (89 ref.)

Expression of the AsbA1, OXA-12, and AsbM1 beta-lactamases in Aeromonas jandaei AER 14 is coordinated by a two-component regulon. Alksne LE, et al. **J Bacteriol** 1997 Mar;179(6):2006-13

Genetic and chemical characterization of a mutant that disrupts synthesis of the lipopolysaccharide core tetrasaccharide in Rhizobium leguminosarum. Allaway D, et al. **J Bacteriol** 1996 Nov;178(21):6403-6

Isolation and characterization of a sporulation initiation mutation in the Bacillus subtilis secA gene. Asai K, et al. **J Bacteriol** 1997 Jan;179(2):544-7

Utilization of orotate as a pyrimidine source by Salmonella typhimurium and Escherichia coli requires the dicarboxylate transport protein encoded by dctA. Baker KE, et al. **J Bacteriol** 1996 Dec;178(24):7099-105

dacD, an Escherichia coli gene encoding a novel penicillin-binding protein (PBP6b) with DD-carboxypeptidase activity. Baquero MR, et al. **J Bacteriol** 1996 Dec;178(24):7106-11

Altered transcription activation specificity of a mutant form of Bacillus subtilis GltR, a LysR family member. Belitsky BR, et al. **J Bacteriol** 1997 Feb;179(4):1035-43

Evidence for two possible glnB-type genes in Herbaspirillum seropedicae. Benelli EM, et al. **J Bacteriol** 1997 Jul; 179(14):4623-6

Characterization of the rcsB gene from Erwinia amylovora and its influence on exoploysaccharide synthesis and virulence of the fire blight pathogen. Bereswill S, et al. **J Bacteriol** 1997 Feb;179(4):1354-61

capA, a cspA-like gene that encodes a cold acclimation protein in the psychrotrophic bacterium Arthrobacter globiformis SI55. Berger F, et al. **J Bacteriol** 1997 Sep; 179(18):5670-6

Isolation and characterization of a priB mutant of Escherichia coli influencing plasmid copy number of delta rop ColE1-type plasmids. Bergès H, et al. **J Bacteriol** 1997 Feb;179(3):956-8

An Escherichia coli host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer. Bhandari P, et al. **J Bacteriol** 1997 Jul; 179(13):4403-6

Conservation of the Escherichia coli dnaX programmed ribosomal frameshift signal in Salmonella typhimurium. Blinkova A, et al. **J Bacteriol** 1997 Jul;179(13):4438-42

Synthesis of the osmoprotectant glycine betaine in Bacillus subtilis: characterization of the gbsAB genes. Boch J, et al. **J Bacteriol** 1996 Sep;178(17):5121-9

Homoserine O-acetyltransferase, involved in the Leptospira meyeri methionine biosynthetic pathway, is not feedback inhibited. Bourhy P, et al. **J Bacteriol** 1997 Jul; 179(13):4396-8

Identification of LytSR-regulated genes from Staphylococcus aureus. Brunskill EW, et al. **J Bacteriol** 1996 Oct;178(19):5810-2

Pseudomonas aeruginosa B-band O-antigen chain length is modulated by Wzz (Rol). Burrows LL, et al. **J Bacteriol** 1997 Mar;179(5):1482-9

Structure and function of the Pseudomonas putida integration host factor. Calb R, et al. **J Bacteriol** 1996 Nov; 178(21):6319-26

Identification and characterization of the Escherichia coli rbn gene encoding the tRNA processing enzyme RNase BN. Callahan C, et al. **J Bacteriol** 1996 Dec; 178(24):7329-32

High-level genetic diversity in the vapD chromosomal region of Helicobacter pylori. Cao P, et al. **J Bacteriol** 1997 May;179(9):2852-6

Characterization of the pecT control region from Erwinia chrysanthemi 3937. Castillo A, et al. **J Bacteriol** 1997 Aug; 179(15):4909-18

Characterization of the aegA locus of Escherichia coli: control of gene expression in response to anaerobiosis and nitrate. Cavicchioli R, et al. **J Bacteriol** 1996 Dec; 178(23):6968-74

Aerobic regulation of isocitrate dehydrogenase gene (icd) expression in Escherichia coli by the arcA and fnr gene products. Chao G, et al. **J Bacteriol** 1997 Jul; 179(13):4299-304

Characterization of cspB, a cold-shock-inducible gene from Lactococcus lactis, and evidence for a family of genes homologous to the Escherichia coli cspA major cold shock gene. Chapot-Chartier MP, et al. **J Bacteriol** 1997 Sep; 179(17):5589-93

sar Genetic determinants necessary for transcription of RNAII and RNAIII in the agr locus of Staphylococcus aureus. Cheung AL, et al. **J Bacteriol** 1997 Jun; 179(12):3963-71

Bacteriophage PSP3 and phi R73 activator proteins: analysis of promoter specificities. Clerch B, et al. **J Bacteriol** 1996 Oct;178(19):5568-72

Identification of a new inhibitor of essential division gene ftsZ as the kil gene of defective prophage Rac. Conter A, et al. **J Bacteriol** 1996 Sep;178(17):5100-4

Molecular cloning and expression of the spsB gene encoding an essential type I signal peptidase from Staphylococcus aureus. Cregg KM, et al. **J Bacteriol** 1996 Oct; 178(19):5712-8

SpoVM, a small protein essential to development in Bacillus subtilis, interacts with the ATP-dependent protease FtsH. Cutting S, et al. **J Bacteriol** 1997 Sep;179(17):5534-42

Translation of the mRNA for the sporulation gene spoIIID of Bacillus subtilis is dependent upon translation of a small upstream open reading frame. Decatur A, et al. **J Bacteriol** 1997 Feb;179(4):1324-8

Regulation of transfer of the Enterococcus faecalis pheromone-responding plasmid pAD1: temperature-sensitive transfer mutants and identification of a new regulatory determinant, traD. de Freire Bastos MC, et al. **J Bacteriol** 1997 May;179(10):3250-9

Identification and characterization of the tolQRA genes of Pseudomonas aeruginosa. Dennis JJ, et al. **J Bacteriol** 1996 Dec;178(24):7059-68

A mutation in the ftsK gene of Escherichia coli affects cell-cell separation, stationary-phase survival, stress adaptation, and expression of the gene encoding the stress protein UspA. Diez AA, et al. **J Bacteriol** 1997 Sep; 179(18):5878-83

"Division potential" in Escherichia coli. Donachie WD, et al. **J Bacteriol** 1996 Oct;178(20):5971-6

Na+-induced transcription of nhaA, which encodes an Na+/H+ antiporter in Escherichia coli, is positively regulated by nhaR and affected by hns. Dover N, et al. **J Bacteriol** 1996 Nov;178(22):6508-17

MdfA, an Escherichia coli multidrug resistance protein with an extraordinarily broad spectrum of drug recognition. Edgar R, et al. **J Bacteriol** 1997 Apr;179(7):2274-80

The hupTUV operon is involved in negative control of hydrogenase synthesis in Rhodobacter capsulatus. Elsen S, et al. **J Bacteriol** 1996 Sep;178(17):5174-81

Complex regulatory activities associated with the histidine kinase PrrB in expression of photosynthesis genes in Rhodobacter sphaeroides 2.4.1. Eraso JM, et al. **J Bacteriol** 1996 Dec;178(24):7037-46

Identification of additional genes required for O-antigen biosynthesis in Vibrio cholerae O1. Fallarino A, et al. **J Bacteriol** 1997 Apr;179(7):2147-53

Characterization and expression of the plasmid-borne bedD gene from Pseudomonas putida ML2, which codes for a NAD+-dependent cis-benzene dihydrodiol dehydrogenase. Fong KP, et al. **J Bacteriol** 1996 Oct; 178(19):5592-601

Promoter mapping and transcriptional regulation of the iron-regulated Neisseria gonorrhoeae fbpA gene. Forng RY, et al. **J Bacteriol** 1997 May;179(9):3047-52

Characterization of the region encoding the CO-induced hydrogenase of Rhodospirillum rubrum. Fox JD, et al. **J Bacteriol** 1996 Nov;178(21):6200-8

Nitrate assimilation gene cluster from the heterocyst-forming cyanobacterium Anabaena sp. strain PCC 7120. Frías JE, et al. **J Bacteriol** 1997 Jan;179(2):477-86

Fis binding in the dnaA operon promoter region. Froelich JM, et al. **J Bacteriol** 1996 Oct;178(20):6006-12

Nucleotide sequences and regulational analysis of genes involved in conversion of aniline to catechol in Pseudomonas putida UCC22(pTDN1). Fukumori F, et al. **J Bacteriol** 1997 Jan;179(2):399-408

Extragenic suppression of motA missense mutations of Escherichia coli. Garza AG, et al. **J Bacteriol** 1996 Nov; 178(21):6116-22

A new type of hemophore-dependent heme acquisition system of Serratia marcescens reconstituted in Escherichia coli. Ghigo JM, et al. **J Bacteriol** 1997 Jun;179(11):3572-9

4-hydroxybenzoyl coenzyme A reductase (dehydroxylating) is required for anaerobic degradation of 4-hydroxybenzoate by Rhodopseudomonas palustris and shares features with molybdenum-containing hydroxylases. Gibson J, et al. **J Bacteriol** 1997 Feb;179(3):634-42

Transcriptional regulation of the Escherichia coli oxyR gene as a function of cell growth. González-Flecha B, et al. **J Bacteriol** 1997 Oct;179(19):6181-6

Functional analysis of exsC and exsB in regulation of exoenzyme S production by Pseudomonas aeruginosa. Goranson J, et al. **J Bacteriol** 1997 Mar;179(5):1646-54

Mechanism of coordinated synthesis of the antagonistic regulatory proteins NifL and NifA of Klebsiella pneumoniae. Govantes F, et al. **J Bacteriol** 1996 Dec; 178(23):6817-23

Cloning and characterization of an Mn-containing superoxide dismutase (SodA) of Bordetella pertussis. Graeff-Wohlleben H, et al. **J Bacteriol** 1997 Apr; 179(7):2194-201

Cloning and characterization of two Serratia marcescens genes involved in core lipopolysaccharide biosynthesis. Guasch JF, et al. **J Bacteriol** 1996 Oct;178(19):5741-7

Defective export in Escherichia coli caused by DsbA'-PhoA hybrid proteins whose DsbA' domain cannot fold into a conformation resistant to periplasmic proteases. Guigueno A, et al. **J Bacteriol** 1997 May;179(10):3260-9

PhoP-PhoQ activates transcription of pmrAB, encoding a two-component regulatory system involved in Salmonella typhimurium antimicrobial peptide resistance. Gunn JS, et al. **J Bacteriol** 1996 Dec;178(23):6857-64

Transcriptional regulation of Salmonella virulence: a PhoQ periplasmic domain mutation results in increased net phosphotransfer to PhoP. Gunn JS, et al. **J Bacteriol** 1996 Nov;178(21):6369-73

Sequencing of heat shock protein 70 (DnaK) homologs from Deinococcus proteolyticus and Thermomicrobium roseum and their integration in a protein-based phylogeny of prokaryotes. Gupta RS, et al. **J Bacteriol** 1997 Jan; 179(2):345-57

A Salmonella typhimurium genetic locus which confers copper tolerance on copper-sensitive mutants of Escherichia coli. Gupta SD, et al. **J Bacteriol** 1997 Aug; 179(16):4977-84

Isolation and characterization of rcsB mutations that affect

colanic acid capsule synthesis in Escherichia coli K-12. Gupte G, et al. **J Bacteriol** 1997 Jul;179(13):4328–35

Incomplete activation of Escherichia coli hemolysin (HlyA) due to mutations in the 3' region of hlyC. Guzmán-Verri C, et al. **J Bacteriol** 1997 Sep;179(18):5959–62

The ggtA gene encodes a subunit of the transport system for the osmoprotective compound glucosylglycerol in Synechocystis sp. strain PCC 6803. Hagemann M, et al. **J Bacteriol** 1997 Feb;179(3):714–20

Purification and sequence analysis of 4-methyl-5-nitrocatechol oxygenase from Burkholderia sp. strain DNT. Haigler BE, et al. **J Bacteriol** 1996 Oct; 178(20):6019–24

Mutational analysis of the Vibrio fischeri LuxI polypeptide: critical regions of an autoinducer synthase. Hanzelka BL, et al. **J Bacteriol** 1997 Aug;179(15):4882–7

A promoter for the first nine genes of the Escherichia coli mra cluster of cell division and cell envelope biosynthesis genes, including ftsI and ftsW. Hara H, et al. **J Bacteriol** 1997 Sep;179(18):5802–11

An operon containing fumC and sodA encoding fumarase C and manganese superoxide dismutase is controlled by the ferric uptake regulator in Pseudomonas aeruginosa: fur mutants produce elevated alginate levels. Hassett DJ, et al. **J Bacteriol** 1997 Mar;179(5):1452–9

Dihydroneopterin triphosphate epimerase of Escherichia coli: purification, genetic cloning, and expression. Haussmann C, et al. **J Bacteriol** 1997 Feb;179(3):949–51

A nonswarming mutant of Proteus mirabilis lacks the Lrp global transcriptional regulator. Hay NA, et al. **J Bacteriol** 1997 Aug;179(15):4741–6

cse15, cse60, and csk22 are new members of mother-cell-specific sporulation regulons in Bacillus subtilis. Henriques AO, et al. **J Bacteriol** 1997 Jan; 179(2):389–98

The alternative sigma factor sigma28 of Legionella pneumophila restores flagellation and motility to an Escherichia coli fliA mutant. Heuner K, et al. **J Bacteriol** 1997 Jan;179(1):17–23

Cloning and expression of the two genes coding for L-serine dehydratase from Peptostreptococcus asaccharolyticus: relationship of the iron-sulfur protein to both L-serine dehydratases from Escherichia coli. Hofmeister AE, et al. **J Bacteriol** 1997 Aug;179(15):4937–41

The dnaK operon of Bacillus subtilis is heptacistronic. Homuth G, et al. **J Bacteriol** 1997 Feb;179(4):1153–64

Detection of an IS2-encoded 46-kilodalton protein capable of binding terminal repeats of IS2. Hu ST, et al. **J Bacteriol** 1996 Oct;178(19):5652–9

Characterization of in-frame proteins encoded by cvaA, an essential gene in the colicin V secretion system: CvaA* stabilizes CvaA to enhance secretion. Hwang J, et al. **J Bacteriol** 1997 Feb;179(3):689–96

Critical base pairs and amino acid residues for protein-DNA interaction between the TyrR protein and tyrP operator of Escherichia coli. Hwang JS, et al. **J Bacteriol** 1997 Feb; 179(4):1051–8

Genetic analysis of the Rhizobium meliloti bacA gene: functional interchangeability with the Escherichia coli sbmA gene and phenotypes of mutants. Ichige A, et al. **J Bacteriol** 1997 Jan;179(1):209–16

The Escherichia coli histone-like protein HU affects DNA initiation, chromosome partitioning via MukB, and cell division via MinCDE. Jaffe A, et al. **J Bacteriol** 1997 Jun; 179(11):3494–9

The glutamic acid residue at amino acid 261 of the alpha subunit is a determinant of the intrinsic efficiency of RNA polymerase at the metE core promoter in Escherichia coli. Jafri S, et al. **J Bacteriol** 1996 Dec;178(23):6810–6

The RIB element in the goaG-pspF intergenic region of Escherichia coli. Jovanovic G, et al. **J Bacteriol** 1997 May; 179(10):3095–102

A role for cpeYZ in cyanobacterial phycoerythrin biosynthesis. Kahn K, et al. **J Bacteriol** 1997 Feb; 179(4):998–1006

Three transport systems for the osmoprotectant glycine betaine operate in Bacillus subtilis: characterization of OpuD. Kappes RM, et al. **J Bacteriol** 1996 Sep; 178(17):5071–9

Characterization of DNA binding sites for the BvgA protein of Bordetella pertussis. Karimova G, et al. **J Bacteriol** 1997 Jun;179(11):3790–2

The flk gene of Salmonella typhimurium couples flagellar P- and L-ring assembly to flagellar morphogenesis. Karlinsey JE, et al. **J Bacteriol** 1997 Apr;179(7):2389–400

Isolation and characterization of multiple adenylate cyclase genes from the cyanobacterium Anabaena sp. strain PCC 7120. Katayama M, et al. **J Bacteriol** 1997 Jun; 179(11):3588–93

Clonally diverse rfb gene clusters are involved in expression of a family of related D-galactan O antigens in Klebsiella species. Kelly RF, et al. **J Bacteriol** 1996 Sep; 178(17):5205–14

The Agrobacterium tumefaciens virulence gene chvE is part of a putative ABC-type sugar transport operon. Kemner JM, et al. **J Bacteriol** 1997 Apr;179(7):2452–8

Two polypeptide products of the Escherichia coli cell division gene ftsW and a possible role for FtsW in FtsZ function. Khattar MM, et al. **J Bacteriol** 1997 Feb; 179(3):784–93

Identification of the lrp gene in Bradyrhizobium japonicum and its role in regulation of delta-aminolevulinic acid uptake. King ND, et al. **J Bacteriol** 1997 Mar; 179(5):1828–31

The flgE gene of Campylobacter coli is under the control of the alternative sigma factor sigma54. Kinsella N, et al. **J Bacteriol** 1997 Aug;179(15):4647–53

Influence of different rol gene products on the chain length of Shigella dysenteriae type 1 lipopolysaccharide O antigen expressed by Shigella flexneri carrier strains. Klee SR, et al. **J Bacteriol** 1997 Apr;179(7):2421–5

Combining localized PCR mutagenesis and natural transformation in direct genetic analysis of a transcriptional regulator gene, pobR. Kok RG, et al. **J Bacteriol** 1997 Jul; 179(13):4270–6

Regulation of the Escherichia coli tna operon: nascent leader peptide control at the tnaC stop codon. Konan KV, et al. **J Bacteriol** 1997 Mar;179(5):1774–9

Molecular characterization of the Bacillus stearothermophilus PV72 S-layer gene sbsB induced by oxidative stress. Kuen B, et al. **J Bacteriol** 1997 Mar;179(5):1664–70

Promoter selectivity of Escherichia coli RNA polymerase sigmaF holoenzyme involved in transcription of flagellar and chemotaxis genes. Kundu TK, et al. **J Bacteriol** 1997 Jul;179(13):4264–9

Isolation and characterization of Enterobacter cloacae mutants which are defective in chemotaxis toward inorganic phosphate. Kusaka K, et al. **J Bacteriol** 1997 Oct; 179(19):6192–5

Characterization of the genes encoding a receptor-like histidine kinase and a cognate response regulator from a biphenyl/polychlorobiphenyl-degrading bacterium, Rhodococcus sp. strain M5. Labbé D, et al. **J Bacteriol** 1997 Apr;179(8):2772–6

Characterization of the genes and proteins of a two-component system from the hyperthermophilic bacterium Thermotoga maritima. Lee PJ, et al. **J Bacteriol** 1996 Oct;178(19):5579–85

Cloning and characterization of two groESL operons of Rhodobacter sphaeroides: transcriptional regulation of the heat-induced groESL operon. Lee WT, et al. **J Bacteriol** 1997 Jan;179(2):487–95

Enhancing transcription through the Escherichia coli hemolysin operon, hlyCABD: RfaH and upstream JUMPStart DNA sequences function together via a postinitiation mechanism. Leeds JA, et al. **J Bacteriol** 1997 Jun;179(11):3519–27

Rubrerythrin from Clostridium perfringens: cloning of the gene, purification of the protein, and characterization of its superoxide dismutase function [published erratum appears in J Bacteriol 1997 Mar;179(5):1836] Lehmann Y, et al. **J Bacteriol** 1996 Dec;178(24):7152–8

Purification and sequence analysis of a novel NADP(H)-dependent type III alcohol dehydrogenase from Thermococcus strain AN1. Li D, et al. **J Bacteriol** 1997 Jul;179(13):4433–7

Incompatibility of Escherichia coli rho mutants with plasmids is mediated by plasmid-specific transcription. Li TK, et al. **J Bacteriol** 1997 Sep;179(18):5789–94

Properties and gene structure of the Thermotoga maritima alpha-amylase AmyA, a putative lipoprotein of a hyperthermophilic bacterium. Liebl W, et al. **J Bacteriol** 1997 Feb;179(3):941–8

Genetic control of the resistance to phage C1 of Escherichia coli K-12. Likhacheva NA, et al. **J Bacteriol** 1996 Sep; 178(17):5309–15

MalFGK complex assembly and transport and regulatory characteristics of MalK insertion mutants. Lippincott J, et al. **J Bacteriol** 1997 Feb;179(4):1337–43

Characterization of dapB, a gene required by Pseudomonas syringae pv. tabaci BR2.024 for lysine and tabtoxinine-beta-lactam biosynthesis. Liu L, et al. **J Bacteriol** 1997 Jan;179(2):507–13

Plasmid-amplified comS enhances genetic competence and suppresses sinR in Bacillus subtilis. Liu L, et al. **J Bacteriol** 1996 Sep;178(17):5144–52

Effects of inactivation or overexpression of the sspF gene on properties of Bacillus subtilis spores. Loshon CA, et al. **J Bacteriol** 1997 Jan;179(1):272–5

Identification of greA encoding a transcriptional elongation factor as a member of the carA-orf-carB-greA operon in Pseudomonas aeruginosa PAO1. Lu CD, et al. **J Bacteriol** 1997 May;179(9):3043–6

Transcriptional attenuation of the Bacillus subtilis pyr operon by the PyrR regulatory protein and uridine nucleotides in vitro. Lu Y, et al. **J Bacteriol** 1996 Dec;178(24):7206–11

Cloning of the rpoD analog from Rhizobium etli: sigA of R. etli is growth phase regulated. Luka S, et al. **J Bacteriol** 1996 Dec;178(24):7138–43

A rubrerythrin operon and nigerythrin gene in Desulfovibrio vulgaris (Hildenborough). Lumppio HL, et al. **J Bacteriol** 1997 Jul;179(14):4607–15

Natural genetic transformation in Streptococcus gordonii: comX imparts spontaneous competence on strain wicky. Lunsford RD, et al. **J Bacteriol** 1996 Oct;178(19):5831–5

comYA, a gene similar to comGA of Bacillus subtilis, is essential for competence-factor-dependent DNA transformation in Streptococcus gordonii. Lunsford RD, et al. **J Bacteriol** 1997 May;179(10):3122–6

Cell division gene ftsQ is required for efficient sporulation but not growth and viability in Streptomyces coelicolor A3(2). McCormick JR, et al. **J Bacteriol** 1996 Sep; 178(17):5295–301

Role of mga in growth phase regulation of virulence genes of the group A streptococcus. McIver KS, et al. **J Bacteriol** 1997 Aug;179(16):5178–87

Maximization of transcription of the serC (pdxF)-aroA multifunctional operon by antagonistic effects of the cyclic AMP (cAMP) receptor protein-cAMP complex and Lrp global regulators of Escherichia coli K-12. Man TK, et al. **J Bacteriol** 1997 Jun;179(11):3458–69

Posttranslational control of the algT (algU)-encoded sigma22 for expression of the alginate regulon in Pseudomonas aeruginosa and localization of its antagonist proteins MucA and MucB (AlgN). Mathee K, et al. **J Bacteriol** 1997 Jun; 179(11):3711–20

Lrp is a direct repressor of the dad operon in Escherichia coli. Mathew E, et al. **J Bacteriol** 1996 Dec;178(24):7234–40

Isolation and characterization of a xylose-dependent promoter from Caulobacter crescentus. Meisenzahl AC, et al. **J Bacteriol** 1997 Feb;179(3):592–600

Paraquat regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K-12 is SoxRS independent but modulated by sigma S. Membrillo-Hernández J, et al. **J Bacteriol** 1997 May;179(10):3164–70

Molecular, genetic, and biochemical characterization of the serC gene of Methanosarcina barkeri Fusaro. Metcalf WW, et al. **J Bacteriol** 1996 Oct;178(19):5797–802

Characterization of Azorhizobium caulinodans glnB and glnA genes: involvement of the P(II) protein in symbiotic nitrogen fixation. Michel-Reydellet N, et al. **J Bacteriol** 1997 Jun;179(11):3580–7

Homing of a group II intron from Lactococcus lactis subsp. lactis ML3. Mills DA, et al. **J Bacteriol** 1997 Oct; 179(19):6107–11

Testosterone-regulated expression of enzymes involved in steroid and aromatic hydrocarbon catabolism in Comamonas testosteroni. Möbus E, et al. **J Bacteriol** 1997 Sep;179(18):5951–5

Amino acid transport in taxonomically diverse cyanobacteria and identification of two genes encoding elements of a neutral amino acid permease putatively involved in recapture of leaked hydrophobic amino acids. Montesinos ML, et al. **J Bacteriol** 1997 Feb;179(3):853–62

A germination-specific spore cortex-lytic enzyme from Bacillus cereus spores: cloning and sequencing of the gene and molecular characterization of the enzyme. Moriyama R, et al. **J Bacteriol** 1996 Sep;178(17):5330–2

A gene (sleB) encoding a spore cortex-lytic enzyme from Bacillus subtilis and response of the enzyme to L-alanine-mediated germination. Moriyama R, et al. **J Bacteriol** 1996 Oct;178(20):6059–63

Identification and characterization of hydrogen peroxide-sensitive mutants of Escherichia coli: genes that require OxyR for expression. Mukhopadhyay S, et al. **J Bacteriol** 1997 Jan;179(2):330–8

Influence of impaired chaperone or secretion function on SecB production in Escherichia coli. Müller JP. **J Bacteriol** 1996 Nov;178(21):6097–104

Characterization of the tol-pal and cyd region of Escherichia coli K-12: transcript analysis and identification of two new proteins encoded by the cyd operon. Muller MM, et al. **J Bacteriol** 1997 Mar;179(6):2077–80

Cloning and characterization of the haemocin immunity gene of Haemophilus influenzae. Murley YM, et al. **J Bacteriol** 1997 Mar;179(5):1684–9

Erratum. Bacillus subtilis spore coat assembly requires cotH gene expression. Naclerio G, et al. **J Bacteriol** 1996 Nov; 178(21):6407

Bacterial DL-2-haloacid dehalogenase from Pseudomonas sp. strain 113: gene cloning and structural comparison with D- and L-2-haloacid dehalogenases. Nardi-Dei V, et al. **J Bacteriol** 1997 Jul;179(13):4232–8

Insertion mutagenesis of the lac repressor and its implications for structure-function analysis. Nelson BD, et al. **J Bacteriol** 1997 Jun;179(11):3721–8

Plasmid pGA1 from Corynebacterium glutamicum codes for a gene product that positively influences plasmid copy number. Nesvera J, et al. **J Bacteriol** 1997 Mar; 179(5):1525–32

Rapid identification and cloning of bacterial transferrin and lactoferrin receptor protein genes. Ogunnariwo JA, et al. **J Bacteriol** 1996 Dec;178(24):7326–8

A suppressor of mutations in the region adjacent to iterons of pSC101 ori. Ohkubo S, et al. **J Bacteriol** 1997 Mar; 179(6):2089–91

A modular family 19 chitinase found in the prokaryotic organism Streptomyces griseus HUT 6037. Ohno T, et al. **J Bacteriol** 1996 Sep;178(17):5065–70

Characterization of the fimA gene encoding bundle-forming fimbriae of the plant pathogen Xanthomonas campestris pv. vesicatoria. Ojanen-Reuhs T, et al. **J Bacteriol** 1997 Feb;179(4):1280–90

Molecular cloning and characterization of the obg gene of Streptomyces griseus in relation to the onset of morphological differentiation. Okamoto S, et al. **J Bacteriol** 1997 Jan;179(1):170–9

Expression of AbrB, a transition state regulator from Bacillus subtilis, is growth phase dependent in a manner resembling that of Fis, the nucleoid binding protein from Escherichia coli. O'Reilly M, et al. **J Bacteriol** 1997 Jan;179(2):522–9

Identification and characterization of xcpR encoding a subunit of the general secretory pathway necessary for dodecane degradation in Acinetobacter calcoaceticus ADP1. Parche S, et al. **J Bacteriol** 1997 Jul;179(14):4631–4

Aerobic regulation of the sucABCD genes of Escherichia

coli, which encode alpha-ketoglutarate dehydrogenase and succinyl coenzyme A synthetase: roles of ArcA, Fnr, and the upstream sdhCDAB promoter. Park SJ, et al. **J Bacteriol** 1997 Jul;179(13):4138–42

Cloning and characterization of argR, a gene that participates in regulation of arginine biosynthesis and catabolism in Pseudomonas aeruginosa PAO1. Park SM, et al. **J Bacteriol** 1997 Sep;179(17):5300–8

Deletion mapping of the sites on the HtrI transducer for sensory rhodopsin I interaction. Perazzona B, et al. **J Bacteriol** 1996 Nov;178(22):6475–8

Regulation of las and rhl quorum sensing in Pseudomonas aeruginosa. Pesci EC, et al. **J Bacteriol** 1997 May; 179(10):3127–32

Mutations in apbC (mrp) prevent function of the alternative pyrimidine biosynthetic pathway in Salmonella typhimurium. Petersen L, et al. **J Bacteriol** 1996 Oct; 178(19):5676–82

Isolation and analysis of the gene encoding the pyruvate-ferredoxin oxidoreductase of Desulfovibrio africanus, production of the recombinant enzyme in Escherichia coli, and effect of carboxy-terminal deletions on its stability. Pieulle L, et al. **J Bacteriol** 1997 Sep; 179(18):5684–92

Disappearance of the sigma E transcription factor from the forespore and the SpoIIE phosphatase from the mother cell contributes to establishment of cell-specific gene expression during sporulation in Bacillus subtilis. Pogliano K, et al. **J Bacteriol** 1997 May;179(10):3331–41

The bluF gene of Rhodobacter capsulatus is involved in conversion of cobinamide to cobalamin (vitamin B12). Pollich M, et al. **J Bacteriol** 1996 Dec;178(24):7308–10

Nitric oxide, nitrite, and Fnr regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K-12. Poole RK, et al. **J Bacteriol** 1996 Sep; 178(18):5487–92

Molecular genetic characterization of the Escherichia coli gntT gene of GntI, the main system for gluconate metabolism. Porco A, et al. **J Bacteriol** 1997 Mar; 179(5):1584–90

Competence for genetic transformation in encapsulated strains of Streptococcus pneumoniae: two allelic variants of the peptide pheromone. Pozzi G, et al. **J Bacteriol** 1996 Oct;178(20):6087–90

A Bacillus subtilis gene encoding a protein similar to nucleotide sugar transferases influences cell shape and viability. Price KD, et al. **J Bacteriol** 1997 Aug; 179(15):4959–61

Aspartate transcarbamylase from the deep-sea hyperthermophilic archaeon Pyrococcus abyssi: genetic organization, structure, and expression in Escherichia coli. Purcarea C, et al. **J Bacteriol** 1997 Jul;179(13):4143–57

The pst operon of Bacillus subtilis has a phosphate-regulated promoter and is involved in phosphate transport but not in regulation of the pho regulon. Qi Y, et al. **J Bacteriol** 1997 Apr;179(8):2534–9

Characterization of a locus from Carnobacterium piscicola LV17B involved in bacteriocin production and immunity: evidence for global inducer-mediated transcriptional regulation. Quadri LE, et al. **J Bacteriol** 1997 Oct; 179(19):6163–71

A Tn10 derivative (T-POP) for isolation of insertions with conditional (tetracycline-dependent) phenotypes. Rappleye CA, et al. **J Bacteriol** 1997 Sep;179(18):5827–34

flaD (sinR) mutations affect SigD-dependent functions at multiple points in Bacillus subtilis. Rashid MH, et al. **J Bacteriol** 1996 Nov;178(22):6640–3

Identification and characterization of ssb and uup mutants with increased frequency of precise excision of transposon Tn10 derivatives: nucleotide sequence of uup in Escherichia coli. Reddy M, et al. **J Bacteriol** 1997 May; 179(9):2892–9

A new Azotobacter vinelandii mannuronan C-5-epimerase gene (algG) is part of an alg gene cluster physically organized in a manner similar to that in Pseudomonas aeruginosa. Rehm BH, et al. **J Bacteriol** 1996 Oct; 178(20):5884–9

A Gly145Ser substitution in the transcriptional activator PrfA causes constitutive overexpression of virulence factors in Listeria monocytogenes. Ripio MT, et al. **J Bacteriol** 1997 Mar;179(5):1533–40

The uvrB gene of Pseudomonas aeruginosa is not DNA damage inducible. Rivera E, et al. **J Bacteriol** 1996 Sep; 178(18):5550–4

Transcription of genes encoding DNA replication proteins is coincident with cell cycle control of DNA replication in Caulobacter crescentus. Roberts RC, et al. **J Bacteriol** 1997 Apr;179(7):2319–30

Increased unsaturated fatty acid production associated with a suppressor of the fabA6(Ts) mutation in Escherichia coli. Rock CO, et al. **J Bacteriol** 1996 Sep;178(18):5382–7

The tgl gene: social motility and stimulation in Myxococcus xanthus. Rodriguez-Soto JP, et al. **J Bacteriol** 1997 Jul; 179(13):4361–71

Integration host factor is required for 1,2-propanediol-dependent transcription of the cob/pdu regulon in Salmonella typhimurium LT2. Rondon MR, et al. **J Bacteriol** 1997 Jun;179(11):3797–800

A divergently transcribed open reading frame is located upstream of the Pseudomonas aeruginosa vfr gene, a homolog of Escherichia coli crp. Runyen-Janecky LJ, et al. **J Bacteriol** 1997 May;179(9):2802–9

Molecular cloning and characterization of the genes encoding the L1 and L2 components of hemolysin BL from Bacillus cereus. Ryan PA, et al. **J Bacteriol** 1997 Apr;179(8):2551–6

A two-component response regulator, gltR, is required for glucose transport activity in Pseudomonas aeruginosa PAO1. Sage AE, et al. **J Bacteriol** 1996 Oct;178(20):6064–6

Characterization of the genetic locus encoding Haemophilus influenzae type b surface fibrils. St. Geme JW 3rd, et al. **J Bacteriol** 1996 Nov;178(21):6281–7

Transcription of Staphylococcus aureus fibronectin binding protein genes is negatively regulated by agr and an agr-independent mechanism. Saravia-Otten P, et al. **J Bacteriol** 1997 Sep;179(17):5259–63

Expression and control of an operon from an intracellular symbiont which is homologous to the groE operon. Sato S, et al. **J Bacteriol** 1997 Apr;179(7):2300–4

Utilization of host iron sources by Corynebacterium diphtheriae: identification of a gene whose product is homologous to eukaryotic heme oxygenases and is required for acquisition of iron from heme and hemoglobin. Schmitt MP. **J Bacteriol** 1997 Feb;179(3):838–45

Cloning and characterization of the Helicobacter pylori flbA gene, which codes for a membrane protein involved in coordinated expression of flagellar genes. Schmitz A, et al. **J Bacteriol** 1997 Feb;179(4):987–97

Heat induction of hsp18 gene expression in Streptomyces albus G: transcriptional and posttranscriptional regulation. Servant P, et al. **J Bacteriol** 1996 Dec;178(24):7031–6

Cloning, sequencing, and overexpression of the genes encoding coenzyme B12-dependent glycerol dehydratase of Citrobacter freundii. Seyfried M, et al. **J Bacteriol** 1996 Oct;178(19):5793–6

The stationary-phase-exit defect of cydC (surB) mutants is due to the lack of a functional terminal cytochrome oxidase. Siegele DA, et al. **J Bacteriol** 1996 Nov;178(21):6091–6

Stigmatella aurantiaca fruiting body formation is dependent on the fbfA gene encoding a polypeptide homologous to chitin synthases. Silakowski B, et al. **J Bacteriol** 1996 Dec; 178(23):6706–13

Effect of traY amber mutations on F-plasmid traY promoter activity in vivo. Silverman PM, et al. **J Bacteriol** 1996 Oct; 178(19):5787–9

Molecular characterization of the oafA locus responsible for acetylation of Salmonella typhimurium O-antigen: oafA is a member of a family of integral membrane trans-acylases. Slauch JM, et al. **J Bacteriol** 1996 Oct; 178(20):5904–9

Identification and characterization of a gene encoding a vertebrate-type carbonic anhydrase in cyanobacteria. Soltes-Rak E, et al. **J Bacteriol** 1997 Feb;179(3):769–74

Size of cotA and identification of the gene product in Synechocystis sp. strain PCC6803. Sonoda M, et al. **J Bacteriol** 1997 Jun;179(12):3845–50

Catechol dioxygenases from Escherichia coli (MhpB) and Alcaligenes eutrophus (MpcI): sequence analysis and biochemical properties of a third family of extradiol dioxygenases. Spence EL, et al. **J Bacteriol** 1996 Sep; 178(17):5249–56

Identification of the fliI and fliJ components of the Caulobacter flagellar type III protein secretion system. Stephens C, et al. **J Bacteriol** 1997 Sep;179(17):5355–65

epr, which encodes glycylglycine endopeptidase resistance, is homologous to femAB and affects serine content of peptidoglycan cross bridges in Staphylococcus capitis and Staphylococcus aureus. Sugai M, et al. **J Bacteriol** 1997 Jul;179(13):4311–8

The Salmonella typhimurium mar locus: molecular and genetic analyses and assessment of its role in virulence. Sulavik MC, et al. **J Bacteriol** 1997 Mar;179(6):1857–66

Mutational analysis of nucleoside diphosphate kinase from Pseudomonas aeruginosa: characterization of critical amino acid residues involved in exopolysaccharide alginate synthesis. Sundin GW, et al. **J Bacteriol** 1996 Dec; 178(24):7120–8

A novel member of the subtilisin-like protease family from Streptomyces albogriseolus. Suzuki M, et al. **J Bacteriol** 1997 Jan;179(2):430–8

Quorum sensing in Aeromonas hydrophila and Aeromonas salmonicida: identification of the LuxRI homologs AhyRI and AsaRI and their cognate N-acylhomoserine lactone signal molecules. Swift S, et al. **J Bacteriol** 1997 Sep; 179(17):5271–81

Transcriptional organization and regulation of the dnaK and groE operons of Chlamydia trachomatis. Tan M, et al. **J Bacteriol** 1996 Dec;178(23):6983–90

Molecular cloning and characterization of nlpH, encoding a novel, surface-exposed, polymorphic, plasmid-encoded 33-kilodalton lipoprotein of Borrelia afzelii. Theisen M. **J Bacteriol** 1996 Nov;178(22):6435–42

The Bradyrhizobium japonicum aconitase gene (acnA) is important for free-living growth but not for an effective root nodule symbiosis [published erratum appears in J Bacteriol 1997 Mar;179(5):1836] Thöny-Meyer L, et al. **J Bacteriol** 1996 Nov;178(21):6166–72

An extreme clockwise switch bias mutation in fliG of Salmonella typhimurium and its suppression by slow-motile mutations in motA and motB. Togashi F, et al. **J Bacteriol** 1997 May;179(9):2994–3003

Deletion analysis of the FliM flagellar switch protein of Salmonella typhimurium. Toker AS, et al. **J Bacteriol** 1996 Dec;178(24):7069–79

Function of the C-terminal domain of the alpha subunit of Escherichia coli RNA polymerase in basal expression and integration host factor-mediated activation of the early promoter of bacteriophage Mu. van Ulsen P, et al. **J Bacteriol** 1997 Jan;179(2):530–7

RpoS- and OxyR-independent induction of HPI catalase at stationary phase in Escherichia coli and identification of rpoS mutations in common laboratory strains. Visick JE, et al. **J Bacteriol** 1997 Jul;179(13):4158–63

Promoters and transcripts associated with the aroP gene of Escherichia coli. Wang P, et al. **J Bacteriol** 1997 Jul; 179(13):4206–12

Repression of the aroP gene of Escherichia coli involves activation of a divergent promoter. Wang P, et al. **J Bacteriol** 1997 Jul;179(13):4213–8

Characterization of thiI, a new gene involved in thiazole biosynthesis in Salmonella typhimurium. Webb E, et al. **J Bacteriol** 1997 Jul;179(13):4399–402

Role of the acrAB locus in organic solvent tolerance mediated by expression of marA, soxS, or robA in Escherichia coli. White DG, et al. **J Bacteriol** 1997 Oct; 179(19):6122–6

Characterization of a periplasmic protein involved in iron utilization of Actinobacillus actinomycetemcomitans. Willemsen PT, et al. **J Bacteriol** 1997 Aug;179(15):4949–52

mucK, a gene in Acinetobacter calcoaceticus ADP1 (BD413), encodes the ability to grow on exogenous cis,cis-muconate as the sole carbon source. Williams PA, et al. **J Bacteriol** 1997 Sep;179(18):5935–42

Nitrate- and nitrite-sensing protein NarX of Escherichia coli K-12: mutational analysis of the amino-terminal tail and first transmembrane segment. Williams SB, et al. **J Bacteriol** 1997 Feb;179(3):721–9

The kilE locus of promiscuous IncP alpha plasmid RK2 is required for stable maintenance in Pseudomonas aeruginosa. Wilson JW, et al. **J Bacteriol** 1997 Apr; 179(7):2339–47

Translation of the leaderless Caulobacter dnaX mRNA. Winzeler E, et al. **J Bacteriol** 1997 Jun;179(12):3981–8

Cloning and characterization of two immunophilin-like genes, ilpA and fkpA, on a single 3.9-kilobase fragment of Aeromonas hydrophila genomic DNA. Wong CY, et al. **J Bacteriol** 1997 Jun;179(11):3397–403

The Caulobacter heat shock sigma factor gene rpoH is positively autoregulated from a sigma32-dependent promoter. Wu J, et al. **J Bacteriol** 1997 Jan;179(2):514–21

Sigma-B, a putative operon encoding alternate sigma factor of Staphylococcus aureus RNA polymerase: molecular cloning and DNA sequencing. Wu S, et al. **J Bacteriol** 1996 Oct;178(20):6036–42

Markerless deletions of pil genes in Myxococcus xanthus generated by counterselection with the Bacillus subtilis sacB gene. Wu SS, et al. **J Bacteriol** 1996 Oct; 178(19):5817–21

Cyclic AMP receptor protein functions as a repressor of the osmotically inducible promoter proP P1 in Escherichia coli. Xu J, et al. **J Bacteriol** 1997 Apr;179(7):2410–7

Lipopolysaccharide dependence of cyanophage sensitivity and aerobic nitrogen fixation in Anabaena sp. strain PCC 7120. Xu X, et al. **J Bacteriol** 1997 May;179(9):2884–91

Action at a distance for negative control of transcription of the glpD gene encoding sn-glycerol 3-phosphate dehydrogenase of Escherichia coli K-12. Yang B, et al. **J Bacteriol** 1996 Dec;178(24):7090–8

In vitro transcriptional analysis of TyrR-mediated activation of the mtr and tyrP+3 promoters of Escherichia coli. Yang J, et al. **J Bacteriol** 1996 Nov;178(21):6389–93

Identification of the algZ gene upstream of the response regulator algR and its participation in control of alginate production in Pseudomonas aeruginosa. Yu H, et al. **J Bacteriol** 1997 Jan;179(1):187–93

Bacillus subtilis SpoIIID protein binds to two sites in the spoVD promoter and represses transcription by sigmaE RNA polymerase. Zhang B, et al. **J Bacteriol** 1997 Feb; 179(3):972–5

Cloning and analysis of the first cry gene from Bacillus popilliae. Zhang J, et al. **J Bacteriol** 1997 Jul; 179(13):4336–41

Suppression of mutant phenotypes of the Agrobacterium tumefaciens VirB11 ATPase by overproduction of VirB proteins. Zhou XR, et al. **J Bacteriol** 1997 Sep; 179(18):5835–42

RNA polymerase beta mutations have reduced sigma70 synthesis leading to a hyper-temperature-sensitive phenotype of a sigma70 mutant. Zhou YN, et al. **J Bacteriol** 1997 Jul;179(13):4292–8

The rpoD1 gene product is a principal sigma factor of RNA polymerase in Microcystis aeruginosa K-81. Asayama M, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):752–8

Open reading frame 3 of the barotolerant bacterium strain DSS12 is complementary with cydD in Escherichia coli: cydD functions are required for cell stability at high pressure. Kato C, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):301–5

Functional expression and site-directed mutagenesis of photoactive yellow protein. Mihara K, et al. **J Biochem (Tokyo)** 1997 May;121(5):876–80

The role of the variable region in Tet repressor for inducibility by tetracycline. Berens C, et al. **J Biol Chem** 1997 Mar 14;272(11):6936–42

Cloning, expression, and sequence analysis of the three genes encoding quinoline 2-oxidoreductase, a molybdenum-containing hydroxylase from Pseudomonas

putida 86. Bläse M, et al. **J Biol Chem** 1996 Sep 20; 271(38):23068–79

prl mutations in the Escherichia coli secG gene. Bost S, et al. **J Biol Chem** 1997 Feb 14;272(7):4087–93

Protein phosphorylation affects binding of the Escherichia coli transcription activator UhpA to the uhpT promoter. Dahl JL, et al. **J Biol Chem** 1997 Jan 17;272(3):1910–9

Recognition of the –10 promoter sequence by a partial polypeptide of sigma70 in vitro. Dombroski AJ. **J Biol Chem** 1997 Feb 7;272(6):3487–94

The PPS1 gene of Saccharomyces cerevisiae codes for a dual specificity protein phosphatase with a role in the DNA synthesis phase of the cell cycle. Ernsting BR, et al. **J Biol Chem** 1997 Apr 4;272(14):9332–43

Evidence for a ninth gene, ptlI, in the locus encoding the pertussis toxin secretion system of Bordetella pertussis and formation of a PtlI–PtlF complex. Farizo KM, et al. **J Biol Chem** 1996 Dec 6;271(49):31643–9

A new type of asymmetrically acting beta–carotene ketolase is required for the synthesis of echinenone in the cyanobacterium Synechocystis sp. PCC 6803. Fernández–González B, et al. **J Biol Chem** 1997 Apr 11; 272(15):9728–33

acrB mutation located at carboxyl–terminal region of gyrase B subunit reduces DNA binding of DNA gyrase. Funatsuki K, et al. **J Biol Chem** 1997 May 16;272(20):13302–8

Identification of the gene encoding the Escherichia coli lipid A 4'–kinase. Facile phosphorylation of endotoxin analogs with recombinant LpxK. Garrett TA, et al. **J Biol Chem** 1997 Aug 29;272(35):21855–64

Characterization of TreR, the major regulator of the Escherichia coli trehalose system. Horlacher R, et al. **J Biol Chem** 1997 May 16;272(20):13026–32

Identification of cDNA clones for the large subunit of eukaryotic translation initiation factor 3. Comparison of homologues from human, Nicotiana tabacum, Caenorhabditis elegans, and Saccharomyces cerevisiae. Johnson KR, et al. **J Biol Chem** 1997 Mar 14; 272(11):7106–13

Requirement of nitric oxide for induction of genes whose products are involved in nitric oxide metabolism in Rhodobacter sphaeroides 2.4.3. Kwiatkowski AV, et al. **J Biol Chem** 1996 Oct 4;271(40):24382–8

Occlusion of RNA polymerase by oligomerization of DnaA protein over the dnaA promoter of Escherichia coli. Lee YS, et al. **J Biol Chem** 1997 Jan 3;272(1):83–8

The RNA molecule CsrB binds to the global regulatory protein CsrA and antagonizes its activity in Escherichia coli. Liu MY, et al. **J Biol Chem** 1997 Jul 11; 272(28):17502–10

The bacillus subtilis dinR gene codes for the analogue of Escherichia coli LexA. Purification and characterization of the DinR protein. Miller MC, et al. **J Biol Chem** 1996 Dec 27;271(52):33502–8

Combinatorial mutations of lac repressor. Stability of monomer–monomer interface is increased by apolar substitution at position 84. Nichols JC, et al. **J Biol Chem** 1997 Jul 25;272(30):18550–7

Escherichia coli orf17 codes for a nucleoside triphosphate pyrophosphohydrolase member of the MutT family of proteins. Cloning, purification, and characterization of the enzyme. O'Handley SF, et al. **J Biol Chem** 1996 Oct 4; 271(40):24649–54

The Escherichia coli polB locus is identical to dinA, the structural gene for DNA polymerase II. Characterization of Pol II purified from a polB mutant. Qiu Z, et al. **J Biol Chem** 1997 Mar 28;272(13):8611–7

Cloning, overexpression, and characterization of glutaredoxin 2, an atypical glutaredoxin from Escherichia coli. Vlamis–Gardikas A, et al. **J Biol Chem** 1997 Apr 25; 272(17):11236–43

Formation of DNA repair intermediates and incision by the ATP–dependent UvrB–UvrC endonuclease. Zou Y, et al. **J Biol Chem** 1997 Feb 21;272(8):4820–7

Selectively 13C–enriched DNA: evidence from 13C1' relaxation rate measurements of an internal dynamics sequence effect in the lac operator. Paquet F, et al. **J Biomol NMR** 1996 Oct;8(3):252–60

A Chlamydomonas homologue of the putative murine t complex distorter Tctex–2 is an outer arm dynein light chain. Patel–King RS, et al. **J Cell Biol** 1997 Jun 2; 137(5):1081–90

The tandem repeat domain in the Listeria monocytogenes ActA protein controls the rate of actin–based motility, the percentage of moving bacteria, and the localization of vasodilator–stimulated phosphoprotein and profilin. Smith GA, et al. **J Cell Biol** 1996 Nov;135(3):647–60

Temporal pattern of Borrelia burgdorferi p21 expression in ticks and the mammalian host. Das S, et al. **J Clin Invest** 1997 Mar 1;99(5):987–95

Survey of emm gene sequences and T–antigen types from systemic Streptococcus pyogenes infection isolates collected in San Francisco, California; Atlanta, Georgia; and Connecticut in 1994 and 1995. Beall B, et al. **J Clin Microbiol** 1997 May;35(5):1231–5

Rapid identification of Salmonella serovars in feces by specific detection of virulence genes, invA and spvC, by an enrichment broth culture–multiplex PCR combination assay. Chiu CH, et al. **J Clin Microbiol** 1996 Oct; 34(10):2619–22

Specific detection of Mycobacterium tuberculosis by mtp40 nested PCR [letter; comment] Gori A, et al. **J Clin Microbiol** 1996 Nov;34(11):2866–7. Comment on: J Clin Microbiol 1996 May;34(5):1108–13.

Prevalence of the virulence–associated gene of Rhodococcus equi in isolates from infected foals. Haites RE, et al. **J Clin Microbiol** 1997 Jun;35(6):1642–4

Factors influencing the vitek gram–positive susceptibility system's detection of vanB–encoded vancomycin resistance among enterococci. Jett B, et al. **J Clin Microbiol** 1996 Mar;34(3):701–6

Isolation of methicillin–resistant coagulase–negative staphylococci from chickens. Kawano J, et al. **J Clin Microbiol** 1996 Sep;34(9):2072–7

Equally high prevalences of infection with cagA–positive Helicobacter pylori in Chinese patients with peptic ulcer disease and those with chronic gastritis–associated dyspepsia. Pan ZJ, et al. **J Clin Microbiol** 1997 Jun; 35(6):1344–7

Molecular epidemiology and antibiotic susceptibility of enterococci in Cincinnati, Ohio: a prospective citywide survey. Perlada DE, et al. **J Clin Microbiol** 1997 Sep; 35(9):2342–7

Detection of vancomycin–resistant enterococci in fecal samples by PCR. Satake S, et al. **J Clin Microbiol** 1997 Sep;35(9):2325–30

Diversity of the 32–kilodalton protein gene may form a basis for species determination of potentially pathogenic mycobacterial species. Soini H, et al. **J Clin Microbiol** 1997 Mar;35(3):769–73

Identification of a polymorphic nucleotide in oxyR specific for Mycobacterium bovis. Sreevatsan S, et al. **J Clin Microbiol** 1996 Aug;34(8):2007–10

Detection by PCR of the nim genes encoding 5–nitroimidazole resistance in Bacteroides spp. Trinh S, et al. **J Clin Microbiol** 1996 Sep;34(9):2078–84

Actinobacillus suis strains isolated from healthy and diseased swine are clonal and carry apxICABDvar. suis and apxIICAvar. suis toxin genes. Van Ostaaijen J, et al. **J Clin Microbiol** 1997 May;35(5):1131–7

The mtp40 gene is not present in all strains of Mycobacterium tuberculosis. Weil A, et al. **J Clin Microbiol** 1996 Sep; 34(9):2309–11

The recombinant 120–kilodalton protein of Ehrlichia chaffeensis, a potential diagnostic tool. Yu XJ, et al. **J Clin Microbiol** 1996 Nov;34(11):2853–5

Biochemical and genetic data suggest that InhA is not the primary target for activated isoniazid in Mycobacterium tuberculosis. Mdluli K, et al. **J Infect Dis** 1996 Nov; 174(5):1085–90

Colonization factors of enterotoxigenic Escherichia coli isolated from children in north India [published erratum appears in J Infect Dis 1996 Nov;174(5):1142] Sommerfelt H, et al. **J Infect Dis** 1996 Oct;174(4):768–76

DNA polymorphisms and variant penicillin–binding proteins as evidence that relatively penicillin–resistant pneumococci in western Canada are clonally related. Swiatlo E, et al. **J Infect Dis** 1996 Oct;174(4):884–8

The preprotein translocase of the inner mitochondrial membrane: evolutionary conservation of targeting and assembly of Tim17. Bömer U, et al. **J Mol Biol** 1996 Oct 4;262(4):389–95

Quantitation of the inhibition of Hfr x F– recombination by the mutagenesis complex UmuD'C. Boudsocq F, et al. **J Mol Biol** 1997 Jul 11;270(2):201–11

Regulation of HU alpha and HU beta by CRP and FIS in Escherichia coli. Claret L, et al. **J Mol Biol** 1996 Oct 25; 263(2):126–39

Analysis of the functional role of conserved residues in the protein subunit of ribonuclease P from Escherichia coli. Gopalan V, et al. **J Mol Biol** 1997 Apr 11;267(4):818–29

Alkaline phosphatase–Strep tag fusion protein binding to streptavidin: resonant mirror studies. Hengsakul M, et al. **J Mol Biol** 1997 Feb 28;266(3):621–32

Escherichia coli lac repressor–lac operator interaction and the influence of allosteric effectors. Horton N, et al. **J Mol Biol** 1997 Jan 10;265(1):1–7

The DNA replication protein PriA and the recombination protein RecG bind D–loops. McGlynn P, et al. **J Mol Biol** 1997 Jul 11;270(2):212–21

Dual regulation of Escherichia coli secA translation by distinct upstream elements. McNicholas P, et al. **J Mol Biol** 1997 Jan 17;265(2):128–41

oriT–processing and regulatory roles of TrwA protein in plasmid R388 conjugation. Moncalián G, et al. **J Mol Biol** 1997 Jul 11;270(2):188–200

Regulation of the "tetCD" genes of transposon Tn10. Pepe CM, et al. **J Mol Biol** 1997 Jul 4;270(1):14–25

Characterization of charge change super–repressor mutants of trp repressor: effects on oligomerization conformation, ligation and stability. Reedstrom RJ, et al. **J Mol Biol** 1996 Nov 22;264(1):32–45

Protein evolution viewed through Escherichia coli protein sequences: introducing the notion of a structural segment of homology, the module. Riley M, et al. **J Mol Biol** 1997 May 23;268(5):857–68

Identification of elements on GeneX–secA RNA of Escherichia coli required for SecA binding and secA auto–regulation. Salavati R, et al. **J Mol Biol** 1997 Jan 17; 265(2):142–52

Novel alleles of the Escherichia coli dnaA gene. Sutton MD, et al. **J Mol Biol** 1997 Sep 5;271(5):693–703

A nucleoprotein activation complex between the leucine–responsive regulatory protein and DNA upstream of the gltBDF operon in Escherichia coli. Wiese DE 2nd, et al. **J Mol Biol** 1997 Jul 11;270(2):152–68

A novel promoter motif for Caulobacter cell cycle–controlled DNA replication genes. Winzeler E, et al. **J Mol Biol** 1996 Dec 6;264(3):412–25

Activation of RpoS–dependent proP P2 transcription by the Fis protein in vitro. Xu J, et al. **J Mol Biol** 1997 Jul 18; 270(3):346–59

Adenovirus–mediated increase of exogenous and inhibition of endogenous fosB gene expression in cultured pulmonary arterial smooth muscle cells. Lu CY, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1703–13

A protein related to eucaryal and bacterial DNA–motor proteins in the hyperthermophilic archaeon Sulfolobus acidocaldarius. Elie C, et al. **J Mol Evol** 1997 Jul; 45(1):107–14

A modular domain of NifU, a nitrogen fixation cluster protein, is highly conserved in evolution. Hwang DM, et al. **J Mol Evol** 1996 Nov;43(5):536–40

Relationships between bacterial drug resistance pumps and other transport proteins. Parish JH, et al. **J Mol Evol** 1996 Feb;42(2):281–93

Helicobacter pylori cagA+ strains and dissociation of gastric epithelial cell proliferation from apoptosis [see comments] Peek RM Jr, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):863–8. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):836–7.

A hierarchy of Hu RNA binding proteins in developing and adult neurons. Okano HJ, et al. **J Neurosci** 1997 May 1; 17(9):3024–37

Cytotoxin genes of Helicobacter pylori in chronic gastritis, gastroduodenal ulcer and gastric cancer: an age and gender matched case–control study. Matsukura N, et al. **Jpn J Cancer Res** 1997 Jun;88(6):532–6

Identification of a Shigella flexneri criR gene increasing ipa genes expression: a novel member of response regulators of the two–component signal transduction family. Qi MS, et al. **Jpn J Med Sci Biol** 1996 Oct–Dec;49(5–6):219–39

Different alleles of the fcrA/mrp gene of Streptococcus pyogenes encode M–related proteins exhibiting an identical immunoglobulin–binding pattern. Krebs B, et al. **Med Microbiol Immunol (Berl)** 1996 May;185(1):39–47

What is the size of the group A streptococcal vir regulon? The Mga regulator affects expression of secreted and surface virulence factors. Podbielski A, et al. **Med Microbiol Immunol (Berl)** 1996 Nov;185(3):171–81

Screening of peptide libraries linked to lac repressor. Schatz PJ, et al. **Methods Enzymol** 1996;267:171–91

Phage display of proteases and macromolecular inhibitors. Wang CI, et al. **Methods Enzymol** 1996;267:52–68

Ubiquitous presence of a mecA homologue in natural isolates of Staphylococcus sciuri. Couto I, et al. **Microb Drug Resist** 1996 Winter;2(4):377–91

Effect of the SinR protein on the expression of the Bacillus subtilis 168 lytABC operon. Margot P, et al. **Microb Drug Resist** 1996 Spring;2(1):119–21

Plasmid–mediated vanB glycopeptide resistance in enterococci. Woodford N, et al. **Microb Drug Resist** 1995 Fall;1(3):235–40

Tracking the evolutionary origin of the methicillin resistance gene: cloning and sequencing of a homologue of mecA from a methicillin susceptible strain of Staphylococcus sciuri [published erratum appears in Microb Drug Resist 1997 Summer;3(2):212] Wu S, et al. **Microb Drug Resist** 1996 Winter;2(4):435–41

PhoP/Q regulated genes in Salmonella typhi identification of melittin sensitive mutants. Baker SJ, et al. **Microb Pathog** 1997 Mar;22(3):165–79

Evidence for the simultaneous expression of two PspAs by a clone of capsular serotype 6B Streptococcus pneumoniae. Crain MJ, et al. **Microb Pathog** 1996 Oct;21(4):265–75

Cloning and detection of the hemolysin gene of Vibrio anguillarum. Hirono I, et al. **Microb Pathog** 1996 Sep; 21(3):173–82

Characterization of F18 fimbrial genes fedE and fedF involved in adhesion and length of enterotoxemic Escherichia coli strain 107/86. Imberechts H, et al. **Microb Pathog** 1996 Sep;21(3):183–92

Cloning, sequencing and expression of the CAMP factor gene of Streptococcus uberis. Jiang M, et al. **Microb Pathog** 1996 May;20(5):297–307

Molecular analysis of the bvg–repressed urease of Bordetella bronchiseptica. McMillan DJ, et al. **Microb Pathog** 1996 Nov;21(5):379–94

Attaching and effacing of host cells by enteropathogenic Escherichia coli in the absence of detectable tyrosine kinase mediated signal transduction. Rabinowitz RP, et al. **Microb Pathog** 1996 Sep;21(3):157–71

Bacterial phenotypes mediated by mviA and their relationship to the mouse virulence of Salmonella typhimurium. Swords WE, et al. **Microb Pathog** 1997 Jun; 22(6):353–62

Cloning and sequencing of the Klebsiella K–36 astA gene, encoding an arylsulfate sulfotransferase. Baek MC, et al. **Microbiol Immunol** 1996;40(8):531–7

Sequence analysis of the florfenicol resistance gene encoded in the transferable R–plasmid of a fish pathogen, Pasteurella piscicida. Kim E, et al. **Microbiol Immunol** 1996;40(9):665–9

The trpF nucleotide sequence and its promoter analysis in Pseudomonas aeruginosa. Murata T. **Microbiol Immunol** 1996;40(2):107–14

Cloning and sequencing of the spore germination gene of

Bacillus megaterium ATCC 12872: similarities to the NaH-antiporter gene of Enterococcus hirae. Tani K, et al. **Microbiol Immunol** 1996;40(2):99-105

Sequence and product analyses of the four genes downstream from the fimbrilin gene (fimA) of the oral anaerobe Porphyromonas gingivalis. Watanabe K, et al. **Microbiol Immunol** 1996;40(10):725-34

A second Escherichia coli gene with similarity to gapA. Hidalgo E, et al. **Microbiologia** 1996 Mar;12(1):99-106

A Streptomyces griseus gene (sgaA) suppresses the growth disturbance caused by high osmolality and a high concentration of A-factor during early growth. Ando N, et al. **Microbiology** 1997 Aug;143 (Pt 8):2715-23

VlpA of Vibrio cholerae O1: the first bacterial member of the alpha 2-microglobulin lipocalin superfamily. Barker A, et al. **Microbiology** 1997 Jun;143 (Pt 6):1805-13

The soybean cultivar specificity gene nolX is present, expressed in a nodD-dependent manner, and of symbiotic significance in cultivar-nonspecific strains of Rhizobium (Sinorhizobium) fredii. Bellato C, et al. **Microbiology** 1997 Apr;143 (Pt 4):1381-8

Amplification of a Streptomyces lividans 4.3 kb DNA element causes overproduction of a novel hypha- and vesicle-associated protein. Betzler M, et al. **Microbiology** 1997 Apr;143 (Pt 4):1243-52

The ldhA gene encoding the fermentative lactate dehydrogenase of Escherichia coli. Bunch PK, et al. **Microbiology** 1997 Jan;143 (Pt 1):187-95

The sigA gene encoding the major sigma factor of RNA polymerase from the marine cyanobacterium Synechococcus sp. strain PCC 7002: cloning and characterization. Caslake LF, et al. **Microbiology** 1996 Feb; 142 (Pt 2):347-57

Role of the colicin A lysis protein in the expression of the colicin A operon. Cavard D. **Microbiology** 1997 Jul;143 (Pt 7):2295-303

Metabolic regulation of lrp gene expression in Escherichia coli K-12. Chen CF, et al. **Microbiology** 1997 Jun;143 (Pt 6):2079-84

Isolation and characterization of the gene encoding single-stranded-DNA-binding protein (SSB) from four marine Shewanella strains that differ in their temperature and pressure optima for growth. Chilukuri LN, et al. **Microbiology** 1997 Apr;143 (Pt 4):1163-74

Cra-mediated regulation of Escherichia coli adenylate cyclase. Crasnier-Mednansky M, et al. **Microbiology** 1997 Mar;143 (Pt 3):785-92

The Bacillus subtilis 168 chromosome from sspE to katA. Cummings NJ, et al. **Microbiology** 1997 Jun;143 (Pt 6):1855-9

The trp RNA-binding attenuation protein (TRAP) regulates the steady-state levels of transcripts of the Bacillus subtilis folate operon. de Saizieu A, et al. **Microbiology** 1997 Mar; 143 (Pt 3):979-89

IS900 targets translation initiation signals in Mycobacterium avium subsp. paratuberculosis to facilitate expression of its hed gene. Doran T, et al. **Microbiology** 1997 Feb;143 (Pt 2):547-52

Brucella abortus strain 2308 putative glucose and galactose transporter gene: cloning and characterization. Essenberg RC, et al. **Microbiology** 1997 May;143 (Pt 5):1549-55

Targeted gene-replacement mutagenesis of dcrA, encoding an oxygen sensor of the sulfate-reducing bacterium Desulfovibrio vulgaris Hildenborough. Fu R, et al. **Microbiology** 1997 Jun;143 (Pt 6):1815-26

The flgK motility operon of Borrelia burgdorferi is initiated by a sigma 70-like promoter. Ge Y, et al. **Microbiology** 1997 May;143 (Pt 5):1681-90

Expression of the Bacillus subtilis spoIVB gene is under dual sigma F/sigma G control. Gomez M, et al. **Microbiology** 1996 Dec;142 (Pt 12):3453-7

BofC encodes a putative forespore regulator of the Bacillus subtilis sigma K checkpoint. Gomez M, et al. **Microbiology** 1997 Jan;143 (Pt 1):157-70

Biochemical and genetic characterization of Rbf1p, a putative transcription factor of Candida albicans. Ishii N, et al. **Microbiology** 1997 Feb;143 (Pt 2):429-35

Mitogenic factor secreted by Streptococcus pyogenes is a heat-stable nuclease requiring His122 for activity. Iwasaki M, et al. **Microbiology** 1997 Jul;143 (Pt 7):2449-55

The Mycobacterium tuberculosis purine biosynthetic pathway: isolation and characterization of the purC and purL genes. Jackson M, et al. **Microbiology** 1996 Sep;142 (Pt 9):2439-47

Overlapping promoters modulate Fnr- and ArcA-dependent anaerobic transcriptional activation of the focApfl operon in Escherichia coli. Kaiser M, et al. **Microbiology** 1997 Mar; 143 (Pt 3):775-83

Expression analysis of the ssgA gene product, associated with sporulation and cell division in Streptomyces griseus. Kawamoto S, et al. **Microbiology** 1997 Apr;143 (Pt 4):1077-86

Lactobacillus delbrueckii subsp. lactis DSM7290 pepG gene encodes a novel cysteine aminopeptidase. Klein JR, et al. **Microbiology** 1997 Feb;143 (Pt 2):527-37

Identification of genes in Rhizobium leguminosarum bv. trifolii whose products are homologues to a family of ATP-binding proteins. Król J, et al. **Microbiology** 1997 Apr;143 (Pt 4):1389-94

The Bacillus subtilis clpC operon encodes DNA repair and competence proteins. Krüger E, et al. **Microbiology** 1997 Apr;143 (Pt 4):1309-16

Control of Neisseria gonorrhoeae pilin gene expression by environmental factors: involvement of the pilA/pilB regulatory genes. Larribe M, et al. **Microbiology** 1997 May; 143 (Pt 5):1757-64

A Bacillus cereus member of the SNF2 family. Lindbäck T, et al. **Microbiology** 1997 Jan;143 (Pt 1):171-4

Mutational analysis of the early forespore/mother-cell signalling pathway in Bacillus subtilis. Londoño-Vallejo JA. **Microbiology** 1997 Aug;143 (Pt 8):2753-61

Characterization of the ftsH gene of Bacillus subtilis. Lysenko E, et al. **Microbiology** 1997 Mar;143 (Pt 3):971-8

Divergence and conservation of the partitioning and global regulation functions in the central control region of the IncP plasmids RK2 and R751. Macartney DP, et al. **Microbiology** 1997 Jul;143 (Pt 7):2167-77

A carboxy-terminal processing protease gene is located immediately upstream of the invasion-associated locus from Bartonella bacilliformis. Mitchell SJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1221-33

Identification by PCR of genes encoding multiple response regulators. Morel-Deville F, et al. **Microbiology** 1997 May; 143 (Pt 5):1513-20

bctA: a novel pBF4 gene necessary for conjugal transfer in Bacteroides spp. Morgan RM, et al. **Microbiology** 1997 Jul; 143 (Pt 7):2155-65

Characterization of Mycobacterium tuberculosis LexA: recognition of a Cheo (Bacillus-type SOS) box. Movahedzadeh F, et al. **Microbiology** 1997 Mar;143 (Pt 3):929-36

Influence of Bacillus subtilis phoR on cell wall anionic polymers. Müller JP, et al. **Microbiology** 1997 Mar;143 (Pt 3):947-56

A 12 kb nucleotide sequence containing the alanine dehydrogenase gene at 279 degrees on the Bacillus subtilis chromosome. Oudega B, et al. **Microbiology** 1997 May;143 (Pt 5):1489-91

A 23911 bp region of the Bacillus subtilis genome comprising genes located upstream and downstream of the lev operon. Parro V, et al. **Microbiology** 1997 Apr;143 (Pt 4):1321-6

Computer-based analyses of the protein constituents of transport systems catalysing export of complex carbohydrates in bacteria. Paulsen IT, et al. **Microbiology** 1997 Aug;143 (Pt 8):2685-99

Spo0A represses transcription of the cry toxin genes in Bacillus thuringiensis. Poncet S, et al. **Microbiology** 1997 Aug;143 (Pt 8):2743-51

The Azotobacter vinelandii gene algJ encodes an outer-membrane protein presumably involved in export of alginate. Rehm BH. **Microbiology** 1996 Apr;142 (Pt 4):873-80

A 28 kDa major immunogen of Chlamydia psittaci shares identity with Mip proteins of Legionella spp. and Chlamydia trachomatis-cloning and characterization of the C. psittaci mip-like gene. Rockey DD, et al. **Microbiology** 1996 Apr;142 (Pt 4):945-53

Nucleotide sequence and analysis of the phoB-rrnE-groESL region of the Bacillus subtilis chromosome. Sadaie Y, et al. **Microbiology** 1997 Jun;143 (Pt 6):1861-6

4-Methylphthalate catabolism in Burkholderia (Pseudomonas) cepacia Pc701: a gene encoding a phthalate-specific permease forms part of a novel gene cluster. Saint CP, et al. **Microbiology** 1996 Sep;142 (Pt 9):2407-18

Molecular analysis of mxbD and mxbM, a putative sensor-regulator pair required for oxidation of methanol in Methylobacterium extorquens AM1. Springer AL, et al. **Microbiology** 1997 May;143 (Pt 5):1737-44

Analysis of a Rhizobium leguminosarum gene encoding a protein homologous to glutathione S-transferases. Tawfiq Alkafaf NK, et al. **Microbiology** 1997 Mar;143 (Pt 3):813-22

An essential role for actA in acid tolerance of Rhizobium meliloti. Tiwari RP, et al. **Microbiology** 1996 Mar;142 (Pt 3):601-10

Sequence analysis of pqq genes required for biosynthesis of pyrroloquinoline quinone in Methylobacterium extorquens AM1 and the purification of a biosynthetic intermediate. Toyama H, et al. **Microbiology** 1997 Feb;143 (Pt 2):595-602

Gain-of-function mutation of sapB that affects formation of alkaline phosphatase by Bacillus subtilis in sporulation conditions. Whalen MB, et al. **Microbiology** 1997 Feb;143 (Pt 2):577-83

The homologous regulators ANR of Pseudomonas aeruginosa and FNR of Escherichia coli have overlapping but distinct specificities for anaerobically inducible promoters. Winteler HV, et al. **Microbiology** 1996 Mar;142 (Pt 3):685-93

The cydR gene product, required for regulation of cytochrome bd expression in the obligate aerobe Azotobacter vinelandii, is an Fnr-like protein. Wu G, et al. **Microbiology** 1997 Jul;143 (Pt 7):2197-207

A 23.4 kb segment at the 69 degrees-70 degrees region of the Bacillus subtilis genome. Yamamoto H, et al. **Microbiology** 1997 Apr;143 (Pt 4):1317-20

High affinity iron acquisition in Rhizobium leguminosarum requires the cycHJKL operon and the feuPQ gene products, which belong to the family of two-component transcriptional regulators. Yeoman KH, et al. **Microbiology** 1997 Jan;143 (Pt 1):127-34

Purification of two Bacillus subtilis proteins which cross-react with antibodies directed against eukaryotic protein kinase C, the His HPr kinase and trigger factor. Zouari N, et al. **Microbiology** 1997 Apr;143 (Pt 4):1151-61

Highly thermostable endo-1,3-beta-glucanase (laminarinase) LamA from Thermotoga neapolitana: nucleotide sequence of the gene and characterization of the recombinant gene product. Zverlov VV, et al. **Microbiology** 1997 May;143 (Pt 5):1701-8

The origin of the antiseptic-resistance gene ebr in Staphylococcus aureus. Sasatsu M, et al. **Microbios** 1995; 84(340):161-9

Comparisons of the molecular evolutionary process at rbcL and ndhF in the grass family (Poaceae). Gaut BS, et al. **Mol Biol Evol** 1997 Jul;14(7):769-77

Detection and identification of Listeria monocytogenes from milk and cheese by a single-step PCR. Manzano M, et al. **Mol Biotechnol** 1997 Feb;7(1):85-8

Diagnostic potential of sefA DNA probes to Salmonella enteritidis and certain other O-serogroup D1 Salmonella serovars. Doran JL, et al. **Mol Cell Probes** 1996 Aug; 10(4):233-46

Effects of pleiotrophic mutations, degUh and spoOA, on the production of foreign proteins using the heterologous secretion system of Bacillus subtilis. Kim SI, et al. **Mol Cells** 1997 Apr 30;7(2):158-64

Cloning, nucleotide sequence and transcriptional analysis of the uvrA gene from Neisseria gonorrhoeae. Black CG, et al. **Mol Gen Genet** 1997 May 20;254(5):479-85

The grpD55 locus of Escherichia coli appears to be an allele of dnaB. Bull HJ, et al. **Mol Gen Genet** 1996 Oct 28; 252(6):755-60

Molecular cloning and characterisation of the ribC gene from Bacillus subtilis: a point mutation in ribC results in riboflavin overproduction. Coquard D, et al. **Mol Gen Genet** 1997 Mar 18;254(1):81-4

Control of Escherichia coli type 1 fimbrial gene expression in stationary phase: a negative role for RpoS. Dove SL, et al. **Mol Gen Genet** 1997 Mar 18;254(1):13-20

Mini-TnhlyAs: a new tool for the construction of secreted fusion proteins. Gentschev I, et al. **Mol Gen Genet** 1996 Sep 13;252(3):266-74

Effects of heterologous expression of CspB, the major cold shock protein of Bacillus subtillis, on protein synthesis in Escherichia coli. Graumann P, et al. **Mol Gen Genet** 1997 Feb 27;253(6):745-52

Identification, sequence analysis, and expression of the lepB gene for a leader peptidase in Rhodobacter capsulatus. Klug G, et al. **Mol Gen Genet** 1997 Feb 27;253(6):666-73

Autogenous and global control of the flagellar master operon, flhD, in Salmonella typhimurium. Kutsukake K. **Mol Gen Genet** 1997 Apr 28;254(4):440-8

A silent mutation in the ftsH gene of Escherichia coli that affects FtsH protein production and colicin tolerance. Makino S, et al. **Mol Gen Genet** 1997 May 20;254(5):578-83

Roles of RpoS (sigmaS), IHF and ppGpp in the expression of the hmp gene encoding the flavohemoglobin (Hmp) of Escherichia coli K-12. Membrillo-Hernandez J, et al. **Mol Gen Genet** 1997 May 20;254(5):599-603

Phenotypes of dnaA mutants of Escherichia coli sensitive to phenothiazine derivatives. Mizushima T, et al. **Mol Gen Genet** 1996 Aug 27;252(1-2):212-5

Cloning of heterologous genes specifying detrimental proteins on pUC-derived plasmids in Escherichia coli. Müller J, et al. **Mol Gen Genet** 1996 Aug 27; 252(1-2):207-11

Effects of the sinR and degU32 (Hy) mutations on the regulation of the aprE gene in Bacillus subtilis. Olmos J, et al. **Mol Gen Genet** 1997 Feb 20;253(5):562-7

A RecA/RAD51 homologue from a hyperthermophilic archaeon retains the major RecA domain only. Rashid N, et al. **Mol Gen Genet** 1996 Dec 13;253(3):397-400

The hydrogenase gene cluster of Rhizobium leguminosarum bv. viciae contains an additional gene (hypX), which encodes a protein with sequence similarity to the N10-formyltetrahydrofolate-dependent enzyme family and is required for nickel-dependent hydrogenase processing and activity. Rey L, et al. **Mol Gen Genet** 1996 Sep 13; 252(3):237-48

Activation and analysis of cryptic crt genes for carotenoid biosynthesis from Streptomyces griseus. Schumann G, et al. **Mol Gen Genet** 1996 Oct 28;252(6):658-66

Autoinducer-independent mutants of the LuxR transcriptional activator exhibit differential effects on the two lux promoters of Vibrio fischeri. Sitnikov DM, et al. **Mol Gen Genet** 1996 Oct 16;252(5):622-5

The malEFG gene cluster of Streptomyces coelicolor A3(2): characterization, disruption and transcriptional analysis. van Wezel GP, et al. **Mol Gen Genet** 1997 May 20; 254(5):604-8

Allele specificity of the Escherichia coli dnaA gene function in the replication of plasmids derived from phage lambda. Węgrzyn G, et al. **Mol Gen Genet** 1996 Oct 16;252(5):580-6

Transcriptional regulation of the macrophage-induced gene (gspA) of Legionella pneumophila and phenotypic characterization of a null mutant. Abu Kwaik Y, et al. **Mol Microbiol** 1997 May;24(3):629-42

STAB-SD: a Shine-Dalgarno sequence in the 5' untranslated region is a determinant of mRNA stability. Agaisse H, et al. **Mol Microbiol** 1996 May;20(3):633-43

Fimbrial biogenesis genes of Pseudomonas aeruginosa: pilW and pilX increase the similarity of type 4 fimbriae to the GSP protein-secretion systems and pilY1 encodes a gonococcal PilC homologue. Aim RA, et al. **Mol Microbiol** 1996 Oct;22(1):161-73

A recombinational defect in the C-terminal domain of Escherichia coli RecA2278-5 protein is compensated by protein binding to ATP. Alexseyev AA, et al. **Mol Microbiol** 1997 Jan;23(2):255-65

Analysis of the role of the Pseudomonas syringae pv. syringae HrpZ harpin in elicitation of the hypersensitive response in tobacco using functionally non-polar hrpZ deletion mutations, truncated HrpZ fragments, and hrmA mutations. Alfano JR, et al. **Mol Microbiol** 1996 Feb;19(4):715-28

Competence pheromone, oligopeptide permease, and induction of competence in Streptococcus pneumoniae. Alloing G, et al. **Mol Microbiol** 1996 Aug;21(3):471-8

H-NS: a modulator of environmentally regulated gene expression. Atlung T, et al. **Mol Microbiol** 1997 Apr; 24(1):7-17 (77 ref.)

Increased distal gene transcription by the elongation factor RfaH, a specialized homologue of NusG. Bailey MJ, et al. **Mol Microbiol** 1996 Nov;22(4):729-37

Ferric uptake regulator mutants of Pseudomonas aeruginosa with distinct alterations in the iron-dependent repression of exotoxin A and siderophores in aerobic and microaerobic environments. Barton HA, et al. **Mol Microbiol** 1996 Sep; 21(5):1001-17

HatA and HatR, implicated in the regulation of inorganic carbon uptake process in Synechocystis PCC6803, may contain WD domains [letter] Bédu S, et al. **Mol Microbiol** 1997 Apr;24(1):230

Pheromone cCF10 and plasmid pCF10-encoded regulatory molecules act post-transcriptionally to activate expression of downstream conjugation functions. Bensing BA, et al. **Mol Microbiol** 1997 Apr;24(2):285-94

Pheromone-inducible expression of an aggregation protein in Enterococcus faecalis requires interaction of a plasmid-encoded RNA with components of the ribosome. Bensing BA, et al. **Mol Microbiol** 1997 Apr;24(2):295-308

Cloning and functional characterization of Neisseria gonorrhoeae tonB, exbB and exbD genes. Biswas GD, et al. **Mol Microbiol** 1997 Apr;24(1):169-79

Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in Escherichia coli. Blomfield IC, et al. **Mol Microbiol** 1997 Feb; 23(4):705-17

Specific binding of the Listeria monocytogenes transcriptional regulator PrfA to target sequences requires additional factor(s) and is influenced by iron. Böckmann R, et al. **Mol Microbiol** 1996 Nov;22(4):643-53

Differential regulation of the virulence genes of Listeria monocytogenes by the transcriptional activator PrfA. Bohne J, et al. **Mol Microbiol** 1996 Jun;20(6):1189-98

The orlA gene from Aspergillus nidulans encodes a trehalose-6-phosphate phosphatase necessary for normal growth and chitin synthesis at elevated temperatures. Borgia PT, et al. **Mol Microbiol** 1996 Jun;20(6):1287-96

The N-terminal domain of colicin E3 interacts with TolB which is involved in the colicin translocation step. Bouveret E, et al. **Mol Microbiol** 1997 Mar;23(5):909-20

ftsW is an essential cell-division gene in Escherichia coli. Boyle DS, et al. **Mol Microbiol** 1997 Jun;24(6):1263-73

Post-transcriptional regulation of CspA expression in Escherichia coli. Brandi A, et al. **Mol Microbiol** 1996 Jan; 19(2):231-40

The A184V missense mutation of the dnaA5 and dnaA46 alleles confers a defect in ATP binding and thermolability in initiation of Escherichia coli DNA replication. Carr KM, et al. **Mol Microbiol** 1996 Jun;20(6):1307-18

Cloning, characterization and disruption of a (p)ppGpp synthetase gene (relA) of Streptomyces coelicolor A3(2). Chakraburtty R, et al. **Mol Microbiol** 1996 Jan; 19(2):357-368

A branch in the ToxR regulatory cascade of Vibrio cholerae revealed by characterization of toxT mutant strains. Champion GA, et al. **Mol Microbiol** 1997 Jan;23(2):323-31

The cutRS signal transduction system of Streptomyces lividans represses the biosynthesis of the polyketide antibiotic actinorhodin. Chang HM, et al. **Mol Microbiol** 1996 Sep;21(5):1075-85

Regulation of the xcp secretion pathway by multiple quorum-sensing modulons in Pseudomonas aeruginosa. Chapon-Hervé V, et al. **Mol Microbiol** 1997 Jun; 24(6):1169-78

The putA gene of Agrobacterium tumefaciens is transcriptionally activated in response to proline by an Lrp-like protein and is not autoregulated. Cho K, et al. **Mol Microbiol** 1996 Dec;22(5):1025-33

Molecular cloning and functional analysis of a novel macrolide-resistance determinant, mefA, from Streptococcus pyogenes. Clancy J, et al. **Mol Microbiol** 1996 Dec;22(5):867-79

In vitro characterization of constitutive CysB proteins from Salmonella typhimurium. Colyer TE, et al. **Mol Microbiol** 1996 Jul;21(2):247-56

Mutational activation of the Cpx signal transduction pathway of Escherichia coli suppresses the toxicity conferred by certain envelope-associated stresses. Cosma CL, et al. **Mol Microbiol** 1995 Nov;18(3):491-505

A mutation in the Bordetella bronchiseptica bvgS gene results in reduced virulence and increased resistance to starvation, and identifies a new class of Bvg-regulated antigens. Cotter PA, et al. **Mol Microbiol** 1997 May;24(4):671-85

Virulence and vaccine potential of Salmonella typhimurium mutants deficient in the expression of the RpoS (sigma S) regulon. Coynault C, et al. **Mol Microbiol** 1996 Oct; 22(1):149-60

HatA and HatR, implicated in the uptake of inorganic carbon in Synechocystis PCC6803, contain WD40 domains [letter; comment] Dagnall BH, et al. **Mol Microbiol** 1997 Apr; 24(1):229-30. Comment on: Mol Microbiol 1995 Nov;18(3):559-68.

The P1 ParA protein and its ATPase activity play a direct role in the segregation of plasmid copies to daughter cells. Davis MA, et al. **Mol Microbiol** 1996 Sep;21(5):1029-36

Cloning, sequence and mutagenesis of the structural gene of Pseudomonas aeruginosa CysB, which can activate algD transcription. Delic-Attree I, et al. **Mol Microbiol** 1997 Jun;24(6):1275-84

Replication control of plasmid pLS1: the antisense RNA II and the compact rnaII region are involved in translational regulation of the initiator RepB synthesis. del Solar G, et al. **Mol Microbiol** 1997 Jan;23(1):95-108

The ftsH gene of Bacillus subtilis is involved in major cellular processes such as sporulation, stress adaptation and secretion. Deuerling E, et al. **Mol Microbiol** 1997 Mar; 23(5):921-33

Activation of transcription at divergent urea-dependent promoters by the urease gene regulator UreR. D'Orazio SE, et al. **Mol Microbiol** 1996 Aug;21(3):643-55

Multicopy fimB gene expression in Escherichia coli: binding to inverted repeats in vivo, effect on fimA gene transcription and DNA inversion. Dove SL, et al. **Mol Microbiol** 1996 Sep;21(6):1161-73

Protein secretion by heterologous bacterial ABC-transporters: the C-terminus secretion signal of the secreted protein confers high recognition specificity. Duong F, et al. **Mol Microbiol** 1996 Aug;21(3):459-70

An ideR mutant of Mycobacterium smegmatis has derepressed siderophore production and an altered oxidative-stress response. Dussurget O, et al. **Mol Microbiol** 1996 Nov;22(3):535-44

Involvement of N-acyl-L-hormoserine lactone autoinducers in controlling the multicellular behaviour of Serratia liquefaciens. Eberl L, et al. **Mol Microbiol** 1996 Apr; 20(1):127-36

SopA, the outer membrane protease responsible for polar localization of IcsA in Shigella flexneri. Egile C, et al. **Mol Microbiol** 1997 Mar;23(5):1063-73

A new PrfA-regulated gene of Listeria monocytogenes encoding a small, secreted protein which belongs to the family of internalins. Engelbrecht F, et al. **Mol Microbiol** 1996 Aug;21(4):823-37

A consensus structure for sigma S-dependent promoters [letter] Espinosa-Urgel M, et al. **Mol Microbiol** 1996 Aug; 21(3):657-9

Direct repeat sequences in the cagA gene of Helicobacter pylori: a ghost of a chance encounter? [letter] Evans DL Jr, et al. **Mol Microbiol** 1997 Jan;23(2):409-10

Promoter-independent cold-shock induction of cspA and its derepression at 37 degrees C by mRNA stabilization. Fang L, et al. **Mol Microbiol** 1997 Jan;23(2):355-64

Contribution of individual promoters in the ddlB-ftsZ region to the transcription of the essential cell-division gene ftsZ in Escherichia coli. Flärdh K, et al. **Mol Microbiol** 1997 Jun;24(5):927-36

afsR is a pleiotropic but conditionally required regulatory gene for antibiotic production in Streptomyces coelicolor A3(2). Floriano B, et al. **Mol Microbiol** 1996 Jul; 21(2):385-96

Localization of OccR-activated and TraR-activated promoters that express two ABC-type permeases and the traR gene of Ti plasmid pTiR10. Fuqua C, et al. **Mol Microbiol** 1996 Jun;20(6):1199-210

Differential mRNA stability of the cspA gene in the cold-shock response of Escherichia coli. Goldenberg D, et al. **Mol Microbiol** 1996 Jan;19(2):241-8

Growth-phase-dependent expression of the osmotically inducible gene osmC of Escherichia coli K-12. Gordia S, et al. **Mol Microbiol** 1996 Feb;19(4):729-36

Cloning and analysis of a Borrelia burgdorferi membrane-interactive protein exhibiting haemolytic activity. Guina T, et al. **Mol Microbiol** 1997 Jun; 24(6):1201-13

A motile but non-swarming mutant of Proteus mirabilis lacks FlgN, a facilitator of flagella filament assembly. Gygi D, et al. **Mol Microbiol** 1997 Aug;25(3):597-604

Inactivation of mecA prevents recovery from the competent state and interferes with cell division and the partitioning of nucleoids in Bacillus subtilis. Hahn J, et al. **Mol Microbiol** 1995 Nov;18(4):755-67

Replacement of the lysine residue in the consensus ATP-binding sequence of the AddA subunit of AddAB drastically affects chromosomal recombination in transformation and transduction of Bacillus subtilis. Haijema BJ, et al. **Mol Microbiol** 1996 Sep;21(5):989-99

Expression of two csg operons is required for production of fibronectin- and congo red-binding curli polymers in Escherichia coli K-12. Hammar M, et al. **Mol Microbiol** 1995 Nov;18(4):661-70

Sulphation of Rhizobium sp. NGR234 Nod factors is dependent on noeE, a new host-specificity gene. Hanin M, et al. **Mol Microbiol** 1997 Jun;24(6):1119-29

Pkn9, a Ser/Thr protein kinase involved in the development of Myxococcus xanthus. Hanlon WA, et al. **Mol Microbiol** 1997 Feb;23(3):459-71

Identification of the streptococcal competence-pheromone receptor. Håvarstein LS, et al. **Mol Microbiol** 1996 Aug; 21(4):863-9

Developmentally regulated synthesis of an unusually small, basic peptide by Coxiella burnetii. Heizen RA, et al. **Mol Microbiol** 1996 Oct;22(1):9-19

Functional analysis of ssaJ and the ssaK/U operon, 13 genes encoding components of the type III secretion apparatus of Salmonella Pathogenicity Island 2. Hensel M, et al. **Mol Microbiol** 1997 Apr;24(1):155-67

Tandem repeats of the tetramer 5'-CAAT-3' present in lic2A are required for phase variation but not lipopolysaccharide biosynthesis in Haemophilus influenzae. High NJ, et al. **Mol Microbiol** 1996 Apr;20(1):165-74

Limited variation and maintenance of tight genetic linkage characterize heteroallelic pilE recombination following DNA transformation of Neisseria gonorrhoeae. Hill SA. **Mol Microbiol** 1996 May;20(3):507-18

Iron-regulated haemolysin gene from Edwardsiella tarda. Hirono I, et al. **Mol Microbiol** 1997 May;24(4):851-6

The size and position of heterologous insertions in a silent locus differentially affect pilin recombination in Neisseria gonorrhoeae. Howell-Adams B, et al. **Mol Microbiol** 1996 Nov;22(3):509-22

The type IV pre-pilin leader peptidase of Xanthomonas campestris pv. campestris is functional without conserved cysteine residues. Hu NT, et al. **Mol Microbiol** 1995 Nov; 18(4):769-77

Expression of the gltP gene of Escherichia coli in a glutamate transport-deficient mutant of Rhodobacter sphaeroides restores chemotaxis to glutamate. Jacobs MH, et al. **Mol Microbiol** 1995 Nov;18(4):641-7

Protein F2, a novel fibronectin-binding protein from Streptococcus pyogenes, possesses two binding domains. Jaffe J, et al. **Mol Microbiol** 1996 Jul;21(2):373-84

Ambidextrous transcriptional activation by SoxS: requirement for the C-terminal domain of the RNA polymerase alpha subunit in a subset of Escherichia coli superoxide-inducible genes. Jair KW, et al. **Mol Microbiol** 1996 Jan;19(2):307-17

The Rhizobium meliloti putA gene: its role in the establishment of the symbiotic interaction with alfalfa. Jiménez-Zurdo JI, et al. **Mol Microbiol** 1997 Jan; 23(1):85-93

Transcriptional activation of Salmonella typhimurium invasion genes by a member of the phosphorylated response-regulator superfamily. Johnston C, et al. **Mol Microbiol** 1996 Nov;22(4):715-27

An unorthodox sensor protein (TorS) mediates the induction of the tor structural genes in response to trimethylamine N-oxide in Escherichia coli. Jourlin C, et al. **Mol Microbiol** 1996 Jun;20(6):1297-306

PspF and IHF bind co-operatively in the psp promoter-regulatory region of Escherichia coli. Jovanovic G, et al. **Mol Microbiol** 1997 Aug;25(3):473-81

A secreted protein tyrosine phosphatase with modular effector domains in the bacterial pathogen Salmonella typhimurium. Kaniga K, et al. **Mol Microbiol** 1996 Aug; 21(3):633-41

The per regulator of enteropathogenic Escherichia coli [letter; comment] Kaper JB, et al. **Mol Microbiol** 1997 Jan; 23(1):179-81. Comment on: Mol Microbiol 1996 Sep;21(5):963-75.

Phosphorylation-dependent binding of BvgA to the upstream region of the cyaA gene of Bordetella pertussis. Karimova G, et al. **Mol Microbiol** 1996 May;20(3):489-96

The positions of the sigma-factor genes, whiG and sigF, in the hierarchy controlling the development of spore chains in the aerial hyphae of Streptomyces coelicolor A3(2). Kelemen GH, et al. **Mol Microbiol** 1996 Aug;21(3):593-603

The LysR-like regulator LeuO in Escherichia coli is involved in the translational regulation of rpoS by affecting the expression of the small regulatory DsrA-RNA. Klauck E, et al. **Mol Microbiol** 1997 Aug;25(3):559-69

Identification and molecular cloning of a gene encoding a fibronectin-binding protein (CadF) from Campylobacter jejuni. Konkel ME, et al. **Mol Microbiol** 1997 Jun; 24(5):953-63

The FinOP repressor system of plasmid R1: analysis of the antisense RNA control of traJ expression and conjugative DNA transfer. Koraimann G, et al. **Mol Microbiol** 1996 Aug;21(4):811-21

The leucine-responsive regulatory protein (Lrp) acts as a specific repressor for sigma s-dependent transcription of the Escherichia coli aidB gene. Landini P, et al. **Mol Microbiol** 1996 Jun;20(5):947-55

A comprehensive set of DnaA-box mutations in the replication origin, oriC, of Escherichia coli. Langer U, et al. **Mol Microbiol** 1996 Jul;21(2):301-11

A hierarchical quorum-sensing cascade in Pseudomonas aeruginosa links the transcriptional activators LasR and RhlR (VsmR) to expression of the stationary-phase sigma factor RpoS. Latifi A, et al. **Mol Microbiol** 1996 Sep; 21(6):1137-46

Countertranscript-driven attenuation system of the pAM beta 1 repE gene. Le Chatelier E, et al. **Mol Microbiol** 1996 Jun;20(5):1099-112

Transcriptional activation of the dnaA gene encoding the initiator for oriC replication by IciA protein, an inhibitor of in vitro oriC replication in Escherichia coli. Lee YS, et al. **Mol Microbiol** 1996 Jan;19(2):389-96

Identification and sequence of a nifJ-like gene in Rhodospirillum rubrum: partial characterization of a

mutant unaffected in nitrogen fixation. Lindblad A, et al. **Mol Microbiol** 1996 May;20(3):559–68

Differential regulation of multiple overlapping promoters in flagellar class II operons in Escherichia coli. Liu X, et al. **Mol Microbiol** 1996 Aug;21(3):613–20

SpoIIQ, a forespore–expressed gene required for engulfment in Bacillus subtilis. Londoño–Vallejo JA, et al. **Mol Microbiol** 1997 Apr;24(1):29–39

Analysis of bacterial carbapenem antibiotic production genes reveals a novel beta–lactam biosynthesis pathway. McGowan SJ, et al. **Mol Microbiol** 1996 Nov;22(3):415–26

Construction of derivatives of the F plasmid pOX–tra715: characterization of traY and traD mutants that can be complemented in trans. Maneewannakul K, et al. **Mol Microbiol** 1996 Oct;22(2):197–205

The clp (CS31A) operon is negatively controlled by Lrp, ClpB, and L–alanine at the transcriptional level. Martin C. **Mol Microbiol** 1996 Jul;21(2):281–92

Expression and regulation of the rnc and pdxJ operons of Escherichia coli. Matsunaga J, et al. **Mol Microbiol** 1996 Dec;22(5):977–89

Carbon–source regulation of virulence gene expression in Listeria monocytogenes. Milenbachs AA, et al. **Mol Microbiol** 1997 Mar;23(5):1075–85

New components of protein folding in extracytoplasmic compartments of Escherichia coli SurA, FkpA and Skp/OmpH. Missiakas D, et al. **Mol Microbiol** 1996 Aug; 21(4):871–84

The role of lux autoinducer in regulating luminescence in Vibrio harveyi; control of luxR expression. Miyamoto CM, et al. **Mol Microbiol** 1996 Feb;19(4):767–75

Localized domains of DNA supercoiling: topological coupling between promoters. Mojica FJ, et al. **Mol Microbiol** 1996 Dec;22(5):919–28

Three disparately regulated genes for sigma 32–like transcription factors in Bradyrhizobium japonicum. Narberhaus F, et al. **Mol Microbiol** 1997 Apr;24(1):93–104

A new member of the Hha/YmoA class of bacterial regulators in plasmid R100 of Escherichia coli? [letter] Nieto JM, et al. **Mol Microbiol** 1996 Jan;19(2):407

An RNA polymerase alpha subunit mutant impairs N–dependent transcriptional antitermination in Escherichia coli. Obuchowski M, et al. **Mol Microbiol** 1997 Jan; 23(2):211–22

Exotoxin A production in Pseudomonas aeruginosa requires the iron–regulated pvdS gene encoding an alternative sigma factor. Ochsner UA, et al. **Mol Microbiol** 1996 Sep; 21(5):1019–28

FruA, a putative transcription factor essential for the development of Myxococcus xanthus. Ogawa M, et al. **Mol Microbiol** 1996 Nov;22(4):757–67

The HypB protein from Bradyrhizobium japonicum can store nickel and is required for the nickel–dependent transcriptional regulation of hydrogenase. Olson JW, et al. **Mol Microbiol** 1997 Apr;24(1):119–28

Transcriptional analysis of type 1 capsule genes in Staphylococcus aureus. Ouyang S, et al. **Mol Microbiol** 1997 Feb;23(3):473–82

Rhizobium leguminosarum bv. viciae contains a second fnr/fixK–like gene and an unusual fixL homologue. Patschkowski T, et al. **Mol Microbiol** 1996 Jul;21(2):267–80

Regulation of the expression of the traM gene of the F sex factor of Escherichia coli. Penfold SS, et al. **Mol Microbiol** 1996 May;20(3):549–58

Non–invasive Salmonella typhimurium mutants are avirulent because of an inability to enter and destroy M cells of ileal Peyer's patches. Penheiter KL, et al. **Mol Microbiol** 1997 May;24(4):697–709

Regulation of competence for genetic transformation in Streptococcus pneumoniae by an auto–induced peptide pheromone and a two–component regulatory system. Pestova EV, et al. **Mol Microbiol** 1996 Aug;21(4):853–62

Mutational analysis and properties of the msbA gene of Escherichia coli, coding for an essential ABC family transporter. Polissi A, et al. **Mol Microbiol** 1996 Jun; 20(6):1221–33

TraM of plasmid R1 controls transfer gene expression as an integrated control element in a complex regulatory network. Pölzleitner E, et al. **Mol Microbiol** 1997 Aug; 25(3):495–507

Overexpression of the mexC–mexD–oprJ efflux operon in nfxB–type multidrug–resistant strains of Pseudomonas aeruginosa. Poole K, et al. **Mol Microbiol** 1996 Aug; 21(4):713–24

Mutual control of the PecS/PecM couple, two proteins regulating virulence–factor synthesis in Erwinia chrysanthemi. Praillet T, et al. **Mol Microbiol** 1997 May; 24(4):803–14

Linker insertion scanning of regA, an activator of exotoxin A production in Pseudomonas aeruginosa. Raivio TL, et al. **Mol Microbiol** 1996 Oct;22(2):239–54

The global activator GacA of Pseudomonas aeruginosa PAO positively controls the production of the autoinducer N–butyryl–homoserine lactone and the formation of the virulence factors pyocyanin, cyanide, and lipase. Reimmann C, et al. **Mol Microbiol** 1997 Apr;24(2):309–19

Identification of a ClpC ATPase required for stress tolerance and in vivo survival of Listeria monocytogenes. Rouquette C, et al. **Mol Microbiol** 1996 Sep;21(5):977–87

Identification of two previously unrecognized genes (guaA and argC) important for uropathogenesis. Russo TA, et al. **Mol Microbiol** 1996 Oct;22(2):217–29

Antitermination of transcription of catabolic operons. Rutberg B. **Mol Microbiol** 1997 Feb;23(3):413–21 (71 ref.)

PilC of Neisseria meningitidis is involved in class II pilus formation and restores pilus assembly, natural transformation competence and adherence to epithelial cells in PilC–deficient gonococci. Ryll RR, et al. **Mol Microbiol** 1997 Mar;23(5):879–92

The role of the AUU initiation codon in the negative feedback regulation of the gene for translation initiation factor IF3 in Escherichia coli. Sacerdot C, et al. **Mol Microbiol** 1996 Jul;21(2):331–46

Involvement of the ribulosephosphate epimerase gene in the dnaA and dnaR functions for initiation of chromosome replication in Escherichia coli. Sakakibara Y. **Mol Microbiol** 1997 May;24(4):793–801

In the search of Mycoplasma genitalium lost substrate–binding proteins: sequence divergence could be the result of a broader substrate specificity [letter] Saurin W, et al. **Mol Microbiol** 1996 Oct;22(2):389–90

The coupling between ftsZ transcription and initiation of DNA replication is not mediated by the DnaA–boxes upstream of ftsZ or by DnaA. Smith RW, et al. **Mol Microbiol** 1996 Jul;21(2):361–72

Autoregulation of the Escherichia coli replication initiator protein, DnaA, is indirect. Smith RW, et al. **Mol Microbiol** 1997 Mar;23(6):1303–15

PhhR, a divergently transcribed activator of the phenylalanine hydroxylase gene cluster of Pseudomonas aeruginosa. Song J, et al. **Mol Microbiol** 1996 Nov; 22(3):497–507

Nucleoside diphosphate kinase from Pseudomonas aeruginosa: characterization of the gene and its role in cellular growth and exopolysaccharide alginate synthesis. Sundin GW, et al. **Mol Microbiol** 1996 Jun;20(5):965–79

Escherichia coli translation initiation factor 3 discriminates the initiation codon in vivo. Sussman JK, et al. **Mol Microbiol** 1996 Jul;21(2):347–60

A third family of allelic hsd genes in Salmonella enterica: sequence comparisons with related proteins identify conserved regions implicated in restriction of DNA. Titheradge AJ, et al. **Mol Microbiol** 1996 Nov;22(3):437–47

Cloning and characterization of bfpTVW, genes required for the transcriptional activation of bfpA in enteropathogenic Escherichia coli [see comments] Tobe T, et al. **Mol Microbiol** 1996 Sep;21(5):963–75. Comment in: Mol Microbiol 1997 Jan;23(1):179–81.

Role of stoichiometry between mRNA, translation factor SelB and selenocysteyl–tRNA in selenoprotein synthesis. Tormay P, et al. **Mol Microbiol** 1996 Sep;21(6):1253–9

Identification and characterization of FrzZ, a novel response regulator necessary for swarming and fruiting–body formation in Myxococcus xanthus. Trudeau KG, et al. **Mol Microbiol** 1996 May;20(3):645–55

Helicobacter pylori picB, a homologue of the Bordetella pertussis toxin secretion protein, is required for induction of IL–8 in gastric epithelial cells. Tummuru MK, et al. **Mol Microbiol** 1995 Dec;18(5):867–76

FnrP and NNR of Paracoccus denitrificans are both members of the FNR family of transcriptional activators but have distinct roles in respiratory adaptation in response to oxygen limitation. Van Spanning RJ, et al. **Mol Microbiol** 1997 Mar;23(5):893–907

FtsZ ring: the eubacterial division apparatus conserved in archaebacteria. Wang X, et al. **Mol Microbiol** 1996 Jul; 21(2):313–9

Involvement of the amino–terminal phosphorylation module of UhpA in activation of uhpT transcription in Escherichia coli. Webber CA, et al. **Mol Microbiol** 1997 Jun; 24(5):1039–48

Effects of systematic variation of the minimal Escherichia coli met consensus operator site: in vivo and in vitro met repressor binding. Wild CM, et al. **Mol Microbiol** 1996 Sep; 21(6):1125–35

Genetic and functional evidence that Type IV pili are required for social gliding motility in Myxococcus xanthus. Wu SS, et al. **Mol Microbiol** 1995 Nov;18(3):547–58

The Myxococcus xanthus pilT locus is required for social gliding motility although pili are still produced. Wu SS, et al. **Mol Microbiol** 1997 Jan;23(1):109–21

Transcriptional regulation of the Yersinia pseudotuberculosis pH6 antigen adhesin by two envelope–associated components. Yang Y, et al. **Mol Microbiol** 1997 May; 24(3):499–510

A glutamate uptake regulatory protein (Grp) in Escherichia coli? Zeng Q, et al. **Mol Microbiol** 1997 Apr;24(1):231–2

Identification and characterization of a gene on Rhizobium meliloti pSyma, syrB, that negatively affects syrM expression. Barnett MJ, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):550–9

The RsmA– mutants of Erwinia carotovora subsp. carotovora strain Ecc71 overexpress hrpNEcc and elicit a hypersensitive reaction–like response in tobacco leaves. Cui Y, et al. **Mol Plant Microbe Interact** 1996 Sep; 9(7):565–73

Characterization of Rhizobium tropici CIAT899 nodulation factors: the role of nodH and nodPQ genes in their sulfation. Folch–Mallol JL, et al. **Mol Plant Microbe Interact** 1996 Apr;9(3):151–63

Identification of a pathogenicity locus, rpfA, in Erwinia carotovora subsp. carotovora subsp. carotovora that encodes a two–component sensor–regulator protein. Frederick RD, et al. **Mol Plant Microbe Interact** 1997 Apr; 10(3):407–15

The rpoN gene of Xanthomonas campestris pv. vesicatoria is not required for pathogenicity. Horns T, et al. **Mol Plant Microbe Interact** 1996 Dec;9(9):856–9

hrpF of Xanthomonas campestris pv. vesicatoria encodes an 87–kDa protein with homology to NoIX of Rhizobium fredii. Huguet E, et al. **Mol Plant Microbe Interact** 1997 May;10(4):488–98

Deletion analysis of the 5' untranslated region of the Rhizobium meliloti nodF gene. Kalinowski G, et al. **Mol Plant Microbe Interact** 1996 Dec;9(9):869–73

Comparison of avrD alleles from Pseudomonas syringae pv. glycinea. Keith LW, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):416–22

Cloning and characterization of the rpfC gene of Xanthomonas oryzae pv. oryzae: involvement in exopolysaccharide production and virulence to rice. Tang JL, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):664–6

Unexpected behavior of a gene trap vector comprising a fusion between the Sh ble and the lacZ genes. Camus A, et al. **Mol Reprod Dev** 1996 Nov;45(3):255–63

Mutagenicity of the potent rat hepatocarcinogen 6BT to the liver of transgenic (lacI) rats: consideration of a reduced mutation assay protocol. Lefevre PA, et al. **Mutagenesis** 1997 Jan;12(1):45–7

A novel lacI transgenic mutation–detection system and its application to establish baseline mutation frequencies in the scid mouse. Andrew SE, et al. **Mutat Res** 1996 Oct 25; 357(1–2):57–66

The mutational specificity of furazolidone in the lacI gene of Escherichia coli. Bertenyi KK, et al. **Mutat Res** 1996 Oct 25;357(1–2):199–208

The recovery of a B2 insertion in the lacI gene of a rat cell line containing a lambda/LIZ shuttle vector. de Boer JG, et al. **Mutat Res** 1997 Apr 14;375(1):79–82

Statistical analysis of the lacI transgenic mouse mutagenicity assay. Fung KY, et al. **Mutat Res** 1997 Mar 4;374(1):21–40 (32 ref.)

Evaluation of lacI mutation in germ cells and micronuclei in peripheral blood after treatment of male lacI transgenic mice with ethylnitrosourea, isopropylmethane sulfonate or methylmethane sulfonate. Gorelick NJ, et al. **Mutat Res** 1997 Feb 14;388(2–3):187–95

Identification of a DinB/UmuC homolog in the archeon Sulfolobus solfataricus. Kulaeva OI, et al. **Mutat Res** 1996 Oct 25;357(1–2):245–53

Molecular analysis of lacI mutations in Rat2 cells exposed to 7,12–dimethylbenz[a]anthracene: evidence for DNA sequence and DNA strand biases for mutation. Manjanatha MG, et al. **Mutat Res** 1996 Nov 11;372(1):53–64

Polymerase chain reaction–based deletion analysis of spontaneous and arsenite–enhanced gpt mutants in CHO–AS52 cells. Meng Z, et al. **Mutat Res** 1996 Sep 23; 356(2):255–9

Mutational specificity of glyoxal, a product of DNA oxidation, in the lacI gene of wild–type Escherichia coli W3110. Murata–Kamiya N, et al. **Mutat Res** 1997 Jul 3; 377(2):255–62

Towards validation of the Big Blue transgenic mouse mutagenesis assay: the mutational spectrum of ex vivo pinpoint mutant plaques. Nishino H, et al. **Mutat Res** 1996 Nov 11;372(1):97–105

Evaluation of spontaneous and chemical–induced lacI mutations in germ cells from lambda/lacI transgenic mice. Putman DL, et al. **Mutat Res** 1997 Feb 14;388(2–3):137–43

Expression of the Pseudomonas aeruginosa uvrA gene is constitutive. Rivera E, et al. **Mutat Res** 1997 Jun 9; 377(1):149–55

Mutant frequency of lacI in transgenic mice following benzo[a]pyrene treatment and partial hepatectomy. Shane BS, et al. **Mutat Res** 1997 Jun 9;377(1):1–11

Assessment of the in vivo mutagenicity of ethylene oxide in the tissues of B6C3F1 lacI transgenic mice following inhalation exposure. Sisk SC, et al. **Mutat Res** 1997 Jul 14;391(3):153–64

A 3 milliTesla 60 Hz magnetic field is neither mutagenic nor co–mutagenic in the presence of menadione and MNU in a transgenic rat cell line. Suri A, et al. **Mutat Res** 1996 Nov 11;372(1):23–31

Induction of SOS–independent mutations by benzo[a]pyrene treatment in Escherichia coli cells deficient in MutY or MutM DNA glycosylases: possible role of oxidative lesions. Urios A, et al. **Mutat Res** 1996 Sep 23;356(2):229–35

In vivo mutagenicity of ethylene oxide at the hprt locus in T–lymphocytes of B6C3F1 lacI transgenic mice following inhalation exposure. Walker VE, et al. **Mutat Res** 1997 Aug 14;392(3):211–22

Protein alchemy: changing beta–sheet into alpha–helix [see comments] Dalal S, et al. **Nat Struct Biol** 1997 Jul; 4(7):548–52. Comment in: Nat Struct Biol 1997 Jul;4(7):512–4.

Amino acid sequence of peptidyl–prolyl isomerase a of Fusarium sporotrichioides. Chow LP, et al. **Nat Toxins** 1996;4(4):149–55

Atomic force microscopic demonstration of DNA looping by GalR and HU. Lyubchenko YL, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):873–6

Structure and heterologous expression of the gene encoding the cell surface glycoprotein from Haloarcula japonica strain TR–1. Wakai H, et al. **Nucleic Acids Symp Ser** 1995; (34):101–2

The use of gene fusions to protein A and protein G in

immunology and biotechnology. Ståhl S, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):66–76 (99 ref.)

The Spirulina platensis adenylate cyclase gene, cyaC, encodes a novel signal transduction protein. Kasahara M, et al. **Plant Cell Physiol** 1997 Jul;38(7):828–36

Differential regulation by low temperature of the gene for an RNA-binding protein, rbpA3, in the cyanobacterium Anabaena variabilis strain M3. Sato N, et al. **Plant Cell Physiol** 1997 Jan;38(1):81–6

Recognition of bacterial avirulence proteins occurs inside the plant cell: a general phenomenon in resistance to bacterial diseases? Bonas U, et al. **Plant J** 1997 Jul;12(1):1–7 (40 ref.)

The cyanobacterium Synechococcus sp. PCC 7942 possesses a close homologue to the chloroplast ClpC protein of higher plants. Clarke AK, et al. **Plant Mol Biol** 1996 Jul; 31(4):721–30

Expression of two heterologous promoters, Agrobacterium rhizogenes rolC and cauliflower mosaic virus 35S, in the stem of transgenic hybrid aspen plants during the annual cycle of growth and dormancy. Nilsson O, et al. **Plant Mol Biol** 1996 Jul;31(4):887–95

Regulation, unique gene organization, and unusual primary structure of carbon fixation genes from a marine phycoerythrin-containing cyanobacterium. Watson GM, et al. **Plant Mol Biol** 1996 Dec;32(6):1103–15

DNA binding and bending by a chloroplast-encoded HU-like protein overexpressed in Escherichia coli. Wu H, et al. **Plant Mol Biol** 1997 May;34(2):339–43

The hydrophobic TraM protein of pKM101 is required for conjugal transfer and sensitivity to donor-specific bacteriophage. Cellini C, et al. **Plasmid** 1997;37(3):181–8

Analyses of traA, int-Tn, and xis-Tn mutations in the conjugative transposon Tn916 in Enterococcus faecalis. Jaworski DD, et al. **Plasmid** 1996 Nov;36(3):201–8

The tetracycline resistance gene tet(M) exhibits mosaic structure. Oggioni MR, et al. **Plasmid** 1996 May; 35(3):156–63

Nucleotide sequence determination and genetic analysis of the Bacteroides plasmid, pBI143. Smith CJ, et al. **Plasmid** 1995 Nov;34(3):211–22

Self-transmissible nif plasmid (pEA9) of Enterobacter agglomerans 339: molecular cloning and evidence for the existence of similar nif clusters on dissimilar plasmids in Enterobacter strains. Steibl HD, et al. **Plasmid** 1995 Nov; 34(3):223–8

The traA gene of the Enterococcus faecalis conjugative plasmid pPD1 encodes a negative regulator for the pheromone response. Tanimoto K, et al. **Plasmid** 1996 Jul; 36(1):55–61

Characterization of a Pasteurella multocida plasmid and its use to express recombinant proteins in P. multocida. Wright CL, et al. **Plasmid** 1997;37(1):65–79

cag, a pathogenicity island of Helicobacter pylori, encodes type I-specific and disease-associated virulence factors. Censini S, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14648–53

Translational coupling by modulation of feedback repression in the IF3 operon of Escherichia coli. Chiaruttini C, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9208–13

recF and recR are required for the resumption of replication at DNA replication forks in Escherichia coli. Courcelle J, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3714–9

In vivo kinetics of a redox-regulated transcriptional switch. Ding H, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8445–9

A cluster of bacterial genes for anaerobic benzene ring biodegradation. Egland PG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6484–9

Structural kinetics of transcription activation at the malT promoter of Escherichia coli by UV laser footprinting. Eichenberger P, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9022–7

The Bacillus subtilis crh gene encodes a HPr-like protein involved in carbon catabolite repression. Galinier A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8439–44

Identification of a novel selD homolog from eukaryotes, bacteria, and archaea: is there an autoregulatory mechanism in selenocysteine metabolism? Guimarães MJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15086–91

Altered recognition mutants of the response regulator PhoB: a new genetic strategy for studying protein-protein interactions. Haldimann A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14361–6

An inhibitor of the Tat/TAR RNA interaction that effectively suppresses HIV-1 replication. Hamy F, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3548–53

A secreted Salmonella protein with homology to an avirulence determinant of plant pathogenic bacteria. Hardt WD, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2; 94(18):9887–92

Interactions of RecF protein with RecO, RecR, and single-stranded DNA binding proteins reveal roles for the RecF-RecO-RecR complex in DNA repair and recombination. Hegde SP, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14468–73

Coexistence of phycoerythrin and a chlorophyll a/b antenna in a marine prokaryote. Hess WR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11126–30

FosB mutant mice: loss of chronic cocaine induction of Fos-related proteins and heightened sensitivity to cocaine's psychomotor and rewarding effects. Hiroi N, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10397–402

Is RecF a DNA replication protein? Kogoma T. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3483–4

A novel transporter involved in cobalt uptake. Komeda H, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):36–41

A DnaB intein in Rhodothermus marinus: indication of recent intein homing across remotely related organisms. Liu XQ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7851–6

smg mutants affect the expression of alternatively spliced SR protein mRNAs in Caenorhabditis elegans. Morrison M, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9782–5

Identification of a pathogenicity island required for Salmonella survival in host cells. Ochman H, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7800–4

Alterations of the outer membrane composition in Escherichia coli lacking the histone-like protein HU. Painbeni E, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6712–7

A peptide export-import control circuit modulating bacterial development regulates protein phosphatases of the phosphorelay. Perego M. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8612–7

Protein engineering of Bacillus thuringiensis delta-endotoxin: mutations at domain II of CryIAb enhance receptor affinity and toxicity toward gypsy moth larvae. Rajamohan F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14338–43

The common nodABC genes of Rhizobium meliloti are host-range determinants. Roche P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15305–10

A synthetic cryIC gene, encoding a Bacillus thuringiensis delta-endotoxin, confers Spodoptera resistance in alfalfa and tobacco. Strizhov N, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15012–7

The B12-dependent ribonucleotide reductase from the archaebacterium Thermoplasma acidophila: an evolutionary solution to the ribonucleotide reductase conundrum. Tauer A, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):53–8

Barriers to recombination between closely related bacteria: MutS and RecBCD inhibit recombination between Salmonella typhimurium and Salmonella typhi. Zahrt TC, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9786–91

Cloning of the tryptophan operon of Brevibacterium divaricatum and its expression in E. coli. Su YC, et al. **Proc Natl Sci Counc Repub China B** 1996 Jul;20(3):87–91

Affinity enhancement of a recombinant antibody: formation of complexes with multiple valency by a single-chain Fv fragment-core streptavidin fusion. Kipriyanov SM, et al. **Protein Eng** 1996 Feb;9(2):203–11

Expression of aggregation-prone recombinant proteins at low temperatures: a comparative study of the Escherichia coli cspA and tac promoter systems. Vasina JA, et al. **Protein Expr Purif** 1997 Mar;9(2):211–8

Cloning, overexpression, and mutagenesis of the gene for homoprotocatechuate 2,3-dioxygenase from Brevibacterium fuscum. Wang YZ, et al. **Protein Expr Purif** 1997 Jun;10(1):1–9

Subcloning of a DNA fragment encoding a single cohesin domain of the Clostridium thermocellum cellulosome-integrating protein CipA: purification, crystallization, and preliminary diffraction analysis of the encoded polypeptide. Béguin P, et al. **Protein Sci** 1996 Jun; 5(6):1192–4

Ribosome-mediated translational pause and protein domain organization. Thanaraj TA, et al. **Protein Sci** 1996 Aug; 5(8):1594–612

Prediction of the structure of the replication initiator protein DnaA. Schaper S, et al. **Proteins** 1997 May;28(1):1–9

A voyage along the bases: novel phosphotransferase genes revealed by in silico analyses of the Escherichia coli genome. Reizer J, et al. **Res Microbiol** 1996 Jul-Sep; 147(6-7):458–71 (61 ref.)

Inoculation of VacA- and CagA- Helicobacter pylori delays gastric ulcer healing in the rat. Li H, et al. **Scand J Gastroenterol** 1997 May;32(5):439–44

High prevalence of the CagA-positive Helicobacter pylori strains in Japanese asymptomatic patients and gastric cancer patients. Shimoyama T, et al. **Scand J Gastroenterol** 1997 May;32(5):465–8

The cold-shock response in bacteria. Wolffe AP. **Sci Prog** 1995;78 (Pt 4):301–10

Regulation of lipid A modifications by Salmonella typhimurium virulence genes phoP-phoQ. Guo L, et al. **Science** 1997 Apr 11;276(5310):250–3

Bacterial interference caused by autoinducing peptide variants. Ji G, et al. **Science** 1997 Jun 27;276(5321):2027–30

Expression of a Bacillus thuringiensis cryIA(c) gene in transgenic peanut plants and its efficacy against lesser cornstalk borer. Singsit C, et al. **Transgenic Res** 1997 Mar; 6(2):169–76

Lac repressor genetic map in real space. Pace HC, et al. **Trends Biochem Sci** 1997 Sep;22(9):334–9 (19 ref.)

Molecular intimacy between proteins specifying plant-pathogen recognition. Parker JE, et al. **Trends Biochem Sci** 1997 Aug;22(8):291–6 (49 ref.)

PAS domain S-boxes in Archaea, Bacteria and sensors for oxygen and redox. Zhulin IB, et al. **Trends Biochem Sci** 1997 Sep;22(9):331–3

A new intein in cyanobacteria and its significance for the spread of inteins [letter] Pietrokovski S. **Trends Genet** 1996 Aug;12(8):287–8

Epigenetic phase variation of the pap operon in Escherichia coli. van der Woude M, et al. **Trends Microbiol** 1996 Jan; 4(1):5–9 (39 ref.)

Recombinant, octavalent group A streptococcal M protein vaccine. Dale JB, et al. **Vaccine** 1996 Jul;14(10):944–8

An Escherichia coli CS31A fibrillum chimera capable of inducing memory antibodies in outbred mice following booster immunization with the entero-pathogenic coronavirus transmissible gastroenteritis virus. Der Vartanian M, et al. **Vaccine** 1997 Feb;15(2):111–20

Characterization of the gene encoding Mhp1 from Mycoplasma hyopneumoniae and examination of Mhp1's vaccine potential. King KW, et al. **Vaccine** 1997 Jan; 15(1):25–35

Expression of the PIP/GCDFP-15 gene and survival in breast cancer. Hähnel R, et al. **Virchows Arch** 1996 Dec; 429(6):365–9

Structure, function, and evolution of bacterial reverse transcriptase. Inouye S, et al. **Virus Genes** 1995; 11(2-3):81–94 (47 ref.)

Bacterial reverse transcriptase and msDNA. Rice SA, et al. **Virus Genes** 1995;11(2-3):95–104 (54 ref.)

[Construction of shuttle vector containing delta-endotoxin gene of Bacillus thuringiensis] Sun L, et al. **Wei Sheng Wu Hsueh Pao** 1996 Feb;36(1):69–72 (Eng. Abstr.) **(Chi)**

[Isolation and properties of mutants devoid of pseudo-HPr activity of the fructose transfer system in Escherichia coli K12] Sergeev KV, et al. **Genetika** 1997 Mar;33(3):321–7 (Eng. Abstr.) **(Rus)**

[Lux-regulon from Vibrio fisheri reduces type 1 restriction in Escherichia coli K12 cells] Zavil'gel'skiĭ GB, et al. **Genetika** 1996 Aug;32(8):1148–52 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Sequence analysis and comparison of 190 K surface antigen gene fragment of a new species of spotted fever group rickettsiae. Zhang JZ, et al. **Acta Virol** 1997 Feb;41(1):41–5

Adhesins of Staphylococcus aureus that bind Lewis(a) antigen. Relationship to sudden infant death syndrome. Blackwell CC, et al. **Adv Exp Med Biol** 1996;408:95–105 (55 ref.)

Prevalence of serum antibodies to Helicobacter pylori and to CagA protein in liver transplant recipients. Rudi J, et al. **Am J Gastroenterol** 1997 Sep;92(9):1492–5

Protection of mice from fatal bubonic and pneumonic plague by passive immunization with monoclonal antibodies against the F1 protein of Yersinia pestis. Anderson GW Jr, et al. **Am J Trop Med Hyg** 1997 Apr;56(4):471–3

Specific antigens of Chlamydia pecorum and their homologues in C psittaci and C trachomatis. Baghian A, et al. **Am J Vet Res** 1996 Dec;57(12):1720–5

Use of Rhodococcus equi virulence-associated protein for immunization of foals against R equi pneumonia. Prescott JF, et al. **Am J Vet Res** 1997 Apr;58(4):356–9

Systemic and mucosal protective immunity to pneumococcal surface protein A. Briles DE, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:118–26 (42 ref.)

Absence of peripheral blood T cell responses to "shared epitope' containing peptides in recent onset rheumatoid arthritis. McColl GJ, et al. **Ann Rheum Dis** 1997 Apr; 56(4):240–6

Immunity to lantibiotics. Saris PE, et al. **Antonie Van Leeuwenhoek** 1996 Feb;69(2):151–9 (49 ref.)

Local and systemic antibody levels against protein D of Haemophilus influenzae following immunization and infection in rats. Akkoyunlu M, et al. **APMIS** 1996 Oct; 104(10):709–17

Molecular biology and vaccine aspects of bacterial immunoglobulin A1 proteases. Lomholt H. **APMIS Suppl** 1996;62:5–28 (125 ref.)

Epitope mapping of cytochrome P450cam (CYP101). Kolesanova EF, et al. **Arch Biochem Biophys** 1997 May 15;341(2):229–37

Streptococcus mutans major adhesion surface protein, P1 (I/II), does not contribute to attachment to valvular vegetations or to the development of endocarditis in a rat model. Ryd M, et al. **Arch Oral Biol** 1996 Oct; 41(10):999–1002

Tuberculous lymphadenitis: revisiting an old foe [letter] Gabbay E, et al. **Aust N Z J Med** 1996 Aug;26(4):561–2

Phagocytic processing of two M protein T-cell epitopes from viable group A streptococci. Delvig AA, et al. **Biochem Soc Trans** 1997 May;25(2):205S

Development of a streptavidin-anti-carcinoembryonic antigen antibody, radiolabeled biotin pretargeting method for radioimmunotherapy of colorectal cancer. Reagent development. Karacay H, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):585–94

Development of a streptavidin-anti-carcinoembryonic antigen antibody, radiolabeled biotin pretargeting method for radioimmunotherapy of colorectal cancer. Studies in a human colon cancer xenograft model. Sharkey RM, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):595–604

Competitive and indirect enzyme-linked immunosorbent assays for Mycobacterium bovis infections based on MPB70 and lipoarabinomannan antigens. Sugden EA, et al. **Can J Vet Res** 1997 Jan;61(1):8–14

Recombinant Brucella abortus proteins that induce proliferation and gamma-interferon secretion by CD4+ T cells from Brucella-vaccinated mice and delayed-type hypersensitivity in sensitized guinea pigs. Oliveira SC, et al. **Cell Immunol** 1996 Sep 15;172(2):262–8

Detection of serum antibodies to CagA and VacA and of serum neutralizing activity for vacuolating cytotoxin in patients with Helicobacter pylori-induced gastritis. Donati M, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):478–82

Specific antibody reactivity against a 110-kilodalton Actinobacillus actinomycetemcomitans protein in subjects with periodontitis. Fleming TF, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):678–81

Antibody response of monkeys to invasion plasmid antigen D after infection with Shigella spp. Oaks EV, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):242–5

Purification and seroreactivity of pneumococcal surface adhesin A (PsaA). Tharpe JA, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):227–9

T cell responses to a mixture of Mycobacterium tuberculosis peptides with complementary HLA-DR binding profiles. Jurcevic S, et al. **Clin Exp Immunol** 1996 Sep;105(3):416–21

Fractionation of mycobacterial integral membrane proteins by continuous elution SDS-PAGE reveals the immunodominance of low molecular weight subunits for human T cells. Mehrotra J, et al. **Clin Exp Immunol** 1997 Sep;109(3):446–50

Is psoriasis induced by streptococcal superantigens and maintained by M-protein-specific T cells that cross-react with keratin? Valdimarsson H, et al. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:21–4 (28 ref.)

Preferential binding with Escherichia coli hsp60 of antibodies prevalent in sera from patients with rheumatoid arthritis. Hirata D, et al. **Clin Immunol Immunopathol** 1997 Feb; 82(2):141–8

Serological follow-up of human brucellosis by measuring IgG antibodies to lipopolysaccharide and cytoplasmic proteins of Brucella species. Baldi PC, et al. **Clin Infect Dis** 1996 Mar;22(3):446–55

Studies on the immunogenicity of the Pla protein from Yersinia pestis. Easterbrook TJ, et al. **Contrib Microbiol Immunol** 1995;13:214–5

Coagglutination with antisera to MyfA and PsaA to distinguish Yersinia enterocolitica from Yersinia pseudotuberculosis pathogenic isolates. Leiva J, et al. **Contrib Microbiol Immunol** 1995;13:158–64

High seropositivity of anti-CagA antibody in Helicobacter pylori-infected patients irrelevant to peptic ulcers and normal mucosa in Japan. Maeda S, et al. **Dig Dis Sci** 1997 Sep;42(9):1841–7

Serum antibodies against Helicobacter pylori proteins VacA and CagA are associated with increased risk for gastric adenocarcinoma. Rudi J, et al. **Dig Dis Sci** 1997 Aug; 42(8):1652–9

Use of a virulence-associated protein based enzyme-linked immunosorbent assay for Rhodococcus equi serology in horses [see comments] Prescott JF, et al. **Equine Vet J** 1996 Sep;28(5):344–9. Comment in: Equine Vet J 1996 Sep;28(5):339–40.

Antibodies to CagA protein are associated with gastric atrophy in Helicobacter pylori infection. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):645–9

Heat shock proteins as immunological carriers and vaccines. Suzue K, et al. **EXS** 1996;77:451–65 (100 ref.)

A purified protein from Salmonella typhimurium inhibits high-affinity interleukin-2 receptor expression on CTLL-2 cells. Arai T, et al. **FEMS Immunol Med Microbiol** 1997 Mar;17(3):155–60

Analysis of human T cell responses to group A streptococci using fractionated Streptococcus pyogenes proteins. Degnan BA, et al. **FEMS Immunol Med Microbiol** 1997 Mar;17(3):161–70

A 200 kDa protein is associated with haemagglutinating isolates of Moraxella (Branhamella) catarrhalis. Fitzgerald M, et al. **FEMS Immunol Med Microbiol** 1997 Jul; 18(3):209–16

Human IgG binding ability of streptococcal M3 protein: its related complement activation-dependent M3 protein polymerization. Hong K. **FEMS Immunol Med Microbiol** 1997 Jul;18(3):163–74

Epitope mapping the Fim2 and Fim3 proteins of Bordetella pertussis with sera from patients infected with or vaccinated against whooping cough. Williamson P, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):169–78

pH6 antigen (PsaA protein) of Yersinia pestis, a novel bacterial Fc-receptor. Zav'yalov VP, et al. **FEMS Immunol Med Microbiol** 1996 May;14(1):53–7

Salmonella typhimurium InvA expression probed with a monoclonal antibody to the C-terminal peptide of InvA. Clark CG, et al. **FEMS Microbiol Lett** 1996 Mar 1; 136(3):263–8

The putative immunity protein of the gram-positive bacteria Leuconostoc mesenteroides is preferentially located in the cytoplasm compartment. Dayem MA, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):251–9

Effect of Helicobacter pylori eradication on gastritis in relation to cagA: a prospective 1-year follow-up study. van der Hulst RW, et al. **Gastroenterology** 1997 Jul; 113(1):25–30

A Leuconostoc lactis protein with homology to ribosomal protein S1 shares common epitopes and common DNA binding properties with a mammalian DNA binding nuclear factor. Yamit-Hezi A, et al. **Gene** 1997 Jan 31;185(1):99–103

Streptococcus pyogenes type 5 M protein is an antigen, not a superantigen, for human T cells. Degnan B, et al. **Hum Immunol** 1997 Apr 1;53(2):206–15

Monoclonal anti-fosB antibody specific for predetermined, nonstructural region of the fosB protein. Kilcevska K, et al. **Hybridoma** 1997 Jun;16(3):277–80

Borrelia burgdorferi P35 and P37 proteins, expressed in vivo, elicit protective immunity. Fikrig E, et al. **Immunity** 1997 May;6(5):531–9

Dendritic cell presentation of PPD and 19 kDa protein of Mycobacterium tuberculosis and emergent T helper cell phenotype. Baird MA, et al. **Immunol Cell Biol** 1995 Dec; 73(6):537–43

Opsonic human antibodies from an endemic population specific for a conserved epitope on the M protein of group A streptococci. Brandt ER, et al. **Immunology** 1996 Nov; 89(3):331–7

Immunoreactivity of mycobacterial 70 kDa protein in different physico-chemical forms. Verma I, et al. **Indian J Med Res** 1997 Jul;106:13–5

Human T-cell clones to the 70-kilodalton heat shock protein of Mycobacterium leprae define mycobacterium-specific epitopes rather than shared epitopes. Adams E, et al. **Infect Immun** 1997 Mar;65(3):1061–70

Delayed-type hypersensitivity activity of the Brucella L7/L12 ribosomal protein depends on posttranslational modification. Bachrach G, et al. **Infect Immun** 1997 Jan; 65(1):267–71

Immunologic and genetic analyses of VmpA of a neurotropic strain of Borrelia turicatae. Cadavid D, et al. **Infect Immun** 1997 Aug;65(8):3352–60

Evidence for ethnic tropism of Helicobacter pylori. Campbell S, et al. **Infect Immun** 1997 Sep;65(9):3708–12

Cryptococcus neoformans and cryptococcal glucuronoxylomannan, galactoxylomannan, and mannoprotein induce different levels of tumor necrosis factor alpha in human peripheral blood mononuclear cells. Chaka W, et al. **Infect Immun** 1997 Jan;65(1):272–8

Molecular analysis of human cardiac myosin-cross-reactive B- and T-cell epitopes of the group A streptococcal M5 protein. Cunningham MW, et al. **Infect Immun** 1997 Sep; 65(9):3913–23

The central variable V2 region of the CS31A major subunit is involved in the receptor-binding domain. Di Martino P, et al. **Infect Immun** 1997 Feb;65(2):609–16

Listeriolysin and IrpA are major protein targets of the human humoral response against Listeria monocytogenes. Grenningloh R, et al. **Infect Immun** 1997 Sep;65(9):3976–80

A new putative fimbrial colonization factor, CS19, of human enterotoxigenic Escherichia coli. Grewal HM, et al. **Infect Immun** 1997 Feb;65(2):507–13

Mycobacterium tuberculosis Des protein: an immunodominant target for the humoral response of tuberculous patients. Jackson M, et al. **Infect Immun** 1997 Jul;65(7):2883–9

Characterization of two distinct opsonic and protective epitopes within the alpha C protein of the group B Streptococcus. Kling DE, et al. **Infect Immun** 1997 Apr; 65(4):1462–7

A protective surface protein from type V group B streptococci shares N-terminal sequence homology with the alpha C protein. Lachenauer CS, et al. **Infect Immun** 1996 Oct;64(10):4255–60

Control by H-2 genes of the Th1 response induced against a foreign antigen expressed by attenuated Salmonella typhimurium. Lo-Man R, et al. **Infect Immun** 1996 Nov; 64(11):4424–32

Antibodies to the leucine-rich repeat region of internalin block entry of Listeria monocytogenes into cells expressing E-cadherin. Mengaud J, et al. **Infect Immun** 1996 Dec; 64(12):5430–3

Relative contributions of hyaluronic acid capsule and M protein to virulence in a mucoid strain of the group A Streptococcus. Moses AE, et al. **Infect Immun** 1997 Jan; 65(1):64–71

Identification of a cross-reactive continuous B-cell epitope in enterotoxigenic Escherichia coli colonization factor antigen I. Rudin A, et al. **Infect Immun** 1996 Nov; 64(11):4508–13

Protective immunity against Clostridium difficile toxin A induced by oral immunization with a live, attenuated Vibrio cholerae vector strain. Ryan ET, et al. **Infect Immun** 1997 Jul;65(7):2941–9

Induction of homologous immune response to Rickettsia tsutsugamushi Boryong with a partial 56-kilodalton recombinant antigen fused with the maltose-binding protein MBP-Bor56. Seong SY, et al. **Infect Immun** 1997 Apr;65(4):1541–5

Localization by site-directed mutagenesis of the site in human complement factor H that binds to Streptococcus pyogenes M protein. Sharma AK, et al. **Infect Immun** 1997 Feb; 65(2):484–7

Safety of live oral Salmonella typhi vaccine strains with deletions in htrA and aroC aroD and immune response in humans. Tacket CO, et al. **Infect Immun** 1997 Feb; 65(2):452–6

Expression of the Yersinia pestis capsular antigen (F1 antigen) on the surface of an aroA mutant of Salmonella typhimurium induces high levels of protection against plague. Titball RW, et al. **Infect Immun** 1997 May; 65(5):1926–30

Immunization with FimA protects against Streptococcus parasanguis endocarditis in rats. Viscount HB, et al. **Infect Immun** 1997 Mar;65(3):994–1002

Oral immunization with PspA elicits protective humoral immunity against Streptococcus pneumoniae infection. Yamamoto M, et al. **Infect Immun** 1997 Feb;65(2):640–4

A standard immunoglobulin preparation produced from bovine colostra shows antibody reactivity and neutralization activity against Shiga-like toxins and EHEC-hemolysin of Escherichia coli O157:H7. Lissner R, et al. **Infection** 1996 Sep-Oct;24(5):378–83

In vivo induction of type 1 and 2 immune responses against protein antigens. Comoy EE, et al. **Int Immunol** 1997 Apr; 9(4):523–31

Lymphocyte proliferative response to Helicobacter pylori CagA protein in patients with duodenal ulcer or gastritis [letter] Tricerri A, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):81–2

Temporal pattern of Borrelia burgdorferi p21 expression in ticks and the mammalian host. Das S, et al. **J Clin Invest** 1997 Mar 1;99(5):987–95

Stimulation of suppressive T cell responses by human but not bacterial 60-kD heat-shock protein in synovial fluid of patients with rheumatoid arthritis. van Roon JA, et al. **J Clin Invest** 1997 Jul 15;100(2):459–63

Isolation of catalase-negative Listeria monocytogenes strains from listeriosis patients and their rapid identification by anti-p60 antibodies and/or PCR. Bubert A, et al. **J Clin Microbiol** 1997 Jan;35(1):179–83

Serodiagnosis of listeriosis based upon detection of antibodies against recombinant truncated forms of listeriolysin O. Gholizadeh Y, et al. **J Clin Microbiol** 1996 Jun;34(6):1391–5

Detection and characterization of the coli surface antigen 6 of enterotoxigenic Escherichia coli strains by using monoclonal antibodies. Helander A, et al. **J Clin Microbiol** 1997 Apr;35(4):867–72

GlpQ: an antigen for serological discrimination between relapsing fever and Lyme borreliosis. Schwan TG, et al. **J Clin Microbiol** 1996 Oct;34(10):2483–92

Characterization of murine monoclonal antibodies specific for the 45/47 kDa antigen complex (APA) of Mycobacterium tuberculosis, M. bovis and BCG. Horn C, et al. **J Immunol Methods** 1996 Oct 16;197(1–2):151–9

Development of an immunoradiometric assay for quantitative determination of CrylA(b) protein in transgenic sugarcane plants. Vázquez RI, et al. **J Immunol Methods** 1996 Sep 13;196(1):33–9

Infant immunization with pneumococcal CRM197 vaccines: effect of saccharide size on immunogenicity and interactions with simultaneously administered vaccines. Daum RS, et al. **J Infect Dis** 1997 Aug;176(2):445–55

Seroprevalence of CagA-positive strains among Helicobacter pylori-infected, healthy young adults. Parsonnet J, et al. **J Infect Dis** 1997 May;175(5):1240–2

Relationship of immune response to heat-shock protein A and characteristics of Helicobacter pylori-infected patients. Pérez-Pérez GI, et al. **J Infect Dis** 1996 Nov; 174(5):1046–50

Intranasal immunization of mice with PspA (pneumococcal surface protein A) can prevent intranasal carriage, pulmonary infection, and sepsis with Streptococcus pneumoniae. Wu HY, et al. **J Infect Dis** 1997 Apr; 175(4):839–46

Production and characterisation of monoclonal antibodies to Brucella melitensis cytosoluble proteins that are able to differentiate antibody responses of infected sheep from Rev. 1 vaccinated sheep. Cloeckaert A, et al. **J Med Microbiol** 1996 Sep;45(3):206–13

Type-specific antibodies to purified streptococcal M proteins from potentially rheumatogenic M-types in patients with rheumatic fever and rheumatic heart disease. Thakur A, et al. **J Med Microbiol** 1996 Dec;45(6):483–9

Predominant downgaze ophthalmoparesis in anti-Hu encephalomyelitis [letter; comment] Schiff ND, et al. **J Neuroophthalmol** 1996 Dec;16(4):302–3. Comment on: J Neuroophthalmol 1996 Mar;16(1):44–8.

Elevated IgG titer against the C region of streptococcal M protein and its immunodeterminants in patients with poststreptococcal acute glomerulonephritis. Mori K, et al. **J Pediatr** 1997 Aug;131(2):293–9

Development of enzyme-linked immunosorbent assays using recombinant borrelial antigens for serodiagnosis of Borrelia burgdorferi infection. Burkert S, et al. **Med Microbiol Immunol (Berl)** 1996 May;185(1):49–57

Immunoprophylactic properties of 71-kDa cell wall-associated protein antigen of Mycobacterium tuberculosis H37Ra. Dhiman N, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):45–51

Expression of an F1/V fusion protein in attenuated Salmonella typhimurium and protection of mice against plague. Leary SEC, et al. **Microb Pathog** 1997 Sep; 23(3):167–79

Phenotypic variants of meningococci and their potential in phagocytic interactions: the influence of opacity proteins, pili, PilC and surface sialic acids. McNeil G, et al. **Microb Pathog** 1997 May;22(5):295–304

Protection of mice against fatal pneumococcal challenge by immunization with pneumococcal surface adhesin A (PsaA). Talkington DF, et al. **Microb Pathog** 1996 Jul; 21(1):17–22

Differential expression of a Mycobacterium tuberculosis protein recognized by a mouse monoclonal antibody. Cummings PJ, et al. **Microbiol Immunol** 1996;40(11):883–6

Production of a T-cell clone which reacts with membrane proteins of Acholeplasma laidlawii. Kuwano K, et al. **Microbiol Immunol** 1997;41(3):261–4

Identification of murine T cells reactive with the bacterial

superantigen Yersinia pseudotuberculosis-derived mitogen (YPM) and factors involved in YPM-induced toxicity in mice. Miyoshi-Akiyama T, et al. **Microbiol Immunol** 1997; 41(4):345–52

Serological indicators of Helicobacter pylori infection in adult dyspeptic patients and healthy blood donors. Rechciński T, et al. **Microbiol Immunol** 1997;41(5):387–93

Antibodies are generated during infection to Coxiella burnetii macrophage infectivity potentiator protein (Cb-Mip). Seshu J, et al. **Microbiol Immunol** 1997;41(4):371–6

Demonstration of a heat-stable 120-kilodalton protein of Rickettsia japonica as a spotted fever group-common antigen. Uchiyama T, et al. **Microbiol Immunol** 1996; 40(2):133–9

Quantitation by enzyme immunoassay of spirosin from Lactobacillus reuteri and Escherichia coli. Yamato M, et al. **Microbiol Res** 1997 Feb;152(1):87–92

Aeromonas trota strains, which agglutinate with Vibrio cholerae O139 Bengal antiserum, possess a serologically distinct fimbrial colonization factor. Nakasone N, et al. **Microbiology** 1996 Feb;142 (Pt 2):309–13

The Mycoplasma hominis P120 membrane protein contains a 216 amino acid hypervariable domain that is recognized by the human humoral immune response. Nyvold C, et al. **Microbiology** 1997 Feb;143 (Pt 2):675–88

A 28 kDa major immunogen of Chlamydia psittaci shares identity with Mip proteins of Legionella spp. and Chlamydia trachomatis–cloning and characterization of the C. psittaci mip-like gene. Rockey DD, et al. **Microbiology** 1996 Apr;142 (Pt 4):945–53

Mapping of conformational B cell epitopes within alpha-helical coiled coil proteins. Cooper JA, et al. **Mol Immunol** 1997 Apr;34(6):433–40

Analysis of the interaction between the bacterial superantigen streptococcal pyrogenic exotoxin A (SpeA) and the human T-cell receptor. Kline JB, et al. **Mol Microbiol** 1997 Apr; 24(1):191–202

Transcriptional regulation of the Yersinia pseudotuberculosis pH6 antigen adhesin by two envelope-associated components. Yang Y, et al. **Mol Microbiol** 1997 May; 24(3):499–510

Immunologic priming of young children by pneumococcal glycoprotein conjugate, but not polysaccharide, vaccines. O'Brien KL, et al. **Pediatr Infect Dis J** 1996 May; 15(5):425–30

Evaluation of a pentavalent conjugated pneumococcal vaccine in toddlers. Pichichero ME, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):72–4

Persistent elevation of immunoglobulin G titer against the C region of recombinant group A streptococcal M protein in patients with rheumatic fever. Mori K, et al. **Pediatr Res** 1996 Feb;39(2):336–42

Mapping a conserved conformational epitope from the M protein of group A streptococci. Relf WA, et al. **Pept Res** 1996 Jan-Feb;9(1):12–20

Antibody response to nitrogenase-positive and -negative Klebsiella pneumoniae strains in juvenile-onset ankylosing spondylitis patients and their first degree relatives: lack of differential recognition of the bacterial nitrogenase. Parra-Campos V, et al. **Rev Latinoam Microbiol** 1996 Apr-Jun;38(2):121–7

Circulating T cells of patients with active psoriasis respond to streptococcal M-peptides sharing sequences with human epidermal keratins. Sigmundsdottir H, et al. **Scand J Immunol** 1997 Jun;45(6):688–97

Induction of CD8+ CTL recognizing mycobacterial peptides. Vordermeier HM, et al. **Scand J Immunol** 1997 May;45(5):521–6

HLA-B27 presents a peptide from a polymorphic region of its own molecule with homology to proteins from arthritogenic bacteria. García F, et al. **Tissue Antigens** 1997 Jan;49(1):23–8

Significance of antibodies to streptococcal M protein in psoriatic arthritis and their association with HLA-A*0207. Muto M, et al. **Tissue Antigens** 1996 Dec;48(6):645–50

PspA, a protection-eliciting pneumococcal protein: immunogenicity of isolated native PspA in mice. Briles DE, et al. **Vaccine** 1996 Jun;14(9):858–67

Antigenicity, cross-reactivity and surface exposure of the Neisseria meningitidis 37 kDa protein (Fbp). Gómez JA, et al. **Vaccine** 1996 Oct;14(14):1340–6

Differences in the immunogenicity of native and formalinized cross reacting material (CRM197) of diphtheria toxin in mice and guinea pigs and their implications on the development and control of diphtheria vaccine based on CRMs. Gupta RK, et al. **Vaccine** 1997 Aug-Sep; 15(12-13):1341–3

Immunobiological properties of a 30 kDa secretory protein of Mycobacterium tuberculosis H37Ra. Sinha RK, et al. **Vaccine** 1997 Apr-May;15(6-7):689–99

Expression and immunogenicity of Mycobacterium tuberculosis antigen 85 by DNA vaccination. Ulmer JB, et al. **Vaccine** 1997 Jun;15(8):792–4

Safety and immunogenicity of a Pseudomonas aeruginosa outer membrane protein I vaccine in human volunteers. von Specht BU, et al. **Vaccine** 1996 Aug;14(12):1111–7

Separation of equine IgG subclasses (IgGa, IgGb and IgG(T)) using their differential binding characteristics for staphylococcal protein A and streptococcal protein G. Sheoran AS, et al. **Vet Immunol Immunopathol** 1996 Dec; 55(1-3):33–43

Immunoprophylaxis of Rhodococcus equi pneumonia in foals. Becú T, et al. **Vet Microbiol** 1997 Jun 16; 56(3-4):193–204

Protective effect against Rhodococcus equi infection in mice of IgG purified from horses vaccinated with virulence associated protein (VapA)-enriched antigens. Fernandez AS, et al. **Vet Microbiol** 1997 Jun 16;56(3-4):187–92

Antigenic analysis of Rhodococcus equi preparations using different horse sera. Fontanals AM, et al. **Vet Microbiol** 1997 Jun 16;56(3-4):247–55

Assessment of the immunogenic potential of Rhodococcus equi virulence associated protein (VapA) in mice. Prescott JF, et al. **Vet Microbiol** 1997 Jun 16;56(3-4):213–25

Characterisation of monoclonal antibodies specific to SEF 21 fimbriae of Salmonella enteritidis and their reactivity with other Salmonellae and Enterobacteria. Sojka MG, et al. **Vet Microbiol** 1996 Feb;48(3-4):207–21

[Antibodies against Bacillus megaterium H glycoprotein in patients with oncological and nononcological pathology of gastro-intestinal tract] Autenshlius AI, et al. **Biull Eksp Biol Med** 1994 May;117(5):520–2 **(Rus)**

[The role of the outer-membrane antigens of Yersinia pseudotuberculosis in the pathogenesis and diagnosis of pseudotuberculosis] Kuliashova LB, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan-Feb;(1):14–8 (Eng. Abstr.) **(Rus)**

[The immunogenic and protective properties of the cell wall proteins of Listeria monocytogenes] Pronin AV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May-Jun; (3):53–6 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Purification of IHF-like protein from gram-negative bacteria in one chromatographic step. Krawczyk B, et al. **Acta Biochim Pol** 1996;43(2):379–82

Improved method of isolation of Coxiella burnetii proteins. Lukáčová M, et al. **Acta Virol** 1996 Feb;40(1):55–8

Molecular chaperones, folding catalysts, and the recovery of active recombinant proteins from E. coli. To fold or to refold. Thomas JG, et al. **Appl Biochem Biotechnol** 1997 Jun;66(3):197–238 (214 ref.)

Isolation, purification, and amino acid sequence of lactobin A, one of the two bacteriocins produced by Lactobacillus amylovorus LMG P-13139. Contreras BG, et al. **Appl Environ Microbiol** 1997 Jan;63(1):13–20

Characterization of the cellulolytic complex (cellulosome) produced by Clostridium cellulolyticum. Gal L, et al. **Appl Environ Microbiol** 1997 Mar;63(3):903–9

Purification and characterization of a phytase from Klebsiella terrigena. Greiner R, et al. **Arch Biochem Biophys** 1997 May 15;341(2):201–6

The N-terminal sequence of Lactococcus lactis phosphoglucose isomerase purified by affinity chromatography differs from the other species. Nomura M, et al. **Arch Biochem Biophys** 1997 May 15;341(2):315–20

Isolation, primary sequence determination, and disulfide bond structure of cyanovirin-N, an anti-HIV (human immunodeficiency virus) protein from the cyanobacterium Nostoc ellipsosporum. Gustafson KR, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):223–8

Purification of a protein from Agrobacterium tumefaciens strain A348 that binds phenolic compounds. Dyé F, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):319–24

Purification and characterization of an extracellular heme-binding protein, HasA, involved in heme iron acquisition. Izadi N, et al. **Biochemistry** 1997 Jun 10; 36(23):7050–7

Overexpression of the gene of ribosomal protein L30 from Thermus thermophilus and crystallization of the recombinant protein. Khairullina AR, et al. **Biochemistry (Mosc)** 1997 Feb;62(2):221–4

Purification and characterization of D(+)-carnitine dehydrogenase from Agrobacterium sp.—a new enzyme of carnitine metabolism. Hanschmann H, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):133–42

Purification of active Escherichia coli ribosome recycling factor (RRF) from an osmo-regulated expression system. MacDougall J, et al. **Biochimie** 1997 May;79(5):243–6

Isolation, characterization, and magnesium-induced self-association kinetics of discrete aggregates of RecA protein from Escherichia coli. Budzynski DM, et al. **Biopolymers** 1996 Apr;38(4):471–91

Monoclonal antibodies against conserved epitopes of a 46-kDa protein from Neisseria meningitidis. Schuch MC, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1485–90

Purification and seroreactivity of pneumococcal surface adhesin A (PsaA). Tharpe JA, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):227–9

Fractionation of mycobacterial integral membrane proteins by continuous elution SDS-PAGE reveals the immunodominance of low molecular weight subunits for human T cells. Mehrotra J, et al. **Clin Exp Immunol** 1997 Sep;109(3):446–50

Detection of a vacuolating cytotoxin in stools from children with diarrhea. Luzzi I, et al. **Clin Infect Dis** 1996 Jul; 23(1):101–6

Large-scale purification of the F1 antigen of Yersinia pestis. Reddin KM, et al. **Contrib Microbiol Immunol** 1995; 13:329–30

Purification and gene cloning of a superantigen (YPM) produced by a patient strain of Yersinia pseudotuberculosis. Takeda T, et al. **Contrib Microbiol Immunol** 1995;13:331–3

First steps from a two-dimensional protein index towards a response-regulation map for Bacillus subtilis. Antelmann H, et al. **Electrophoresis** 1997 Aug;18(8):1451–63

Development of a Haemophilus two-dimensional protein database. Cash P, et al. **Electrophoresis** 1997 Aug; 18(8):1472–82

Proteome analysis of Spiroplasma melliferum (A56) and protein characterisation across species boundaries. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1335–46

Evaluation of algorithms used for cross-species proteome characterisation. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1410–7

Characterisation of basic proteins from Spiroplasma melliferum using novel immobilised pH gradients. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1393–8

Identifying the major proteome components of Haemophilus influenzae type-strain NCTC 8143. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1314–34

Comparing the predicted and observed properties of proteins encoded in the genome of Escherichia coli K-12. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1259–313 (149 ref.)

The proteome of Salmonella enterica serovar typhimurium: current progress on its determination and some applications. O'Connor CD, et al. **Electrophoresis** 1997 Aug;18(8):1483–90

Global analysis of physiological responses in marine bacteria. Ostling J, et al. **Electrophoresis** 1997 Aug;18(8):1441–50 (54 ref.)

Stress proteins in Listeria monocytogenes. Phan-Thanh L, et al. **Electrophoresis** 1997 Aug;18(8):1464–71

Thermostable variants of subtilisin selected by temperature-gradient gel electrophoresis. Sättler A, et al. **Electrophoresis** 1996 Apr;17(4):784–92

Towards a proteome project of cyanobacterium Synechocystis sp. strain PCC6803: linking 130 protein spots with their respective genes. Sazuka T, et al. **Electrophoresis** 1997 Aug;18(8):1252–8

Identification and characterization of Brucella ovis immunogenic proteins using two-dimensional electrophoresis and immunoblotting. Teixeira-Gomes AP, et al. **Electrophoresis** 1997 Aug;18(8):1491–7

'Proteomic contigs' of Mycobacterium tuberculosis and Mycobacterium bovis (BCG) using novel immobilised pH gradients. Urquhart BL, et al. **Electrophoresis** 1997 Aug; 18(8):1384–92

Identification of procaryotic developmental stages by statistical analyses of two-dimensional gel patterns. Vohradský J, et al. **Electrophoresis** 1997 Aug;18(8):1418–28

Proteomic 'contigs' of Ochrobactrum anthropi, application of extensive pH gradients. Wasinger VC, et al. **Electrophoresis** 1997 Aug;18(8):1373–83

Isolation of the tetrathionate hydrolase from Thiobacillus acidophilus. De Jong GA, et al. **Eur J Biochem** 1997 Feb 1;243(3):678–83

Purification and characterization of flavoproteins and cytochromes from the yellow bioluminescence marine bacterium Vibrio fischeri strain Y1. Petushkov VN, et al. **Eur J Biochem** 1997 May 1;245(3):790–6

Methanol:coenzyme M methyltransferase from Methanosarcina barkeri. Purification, properties and encoding genes of the corrinoid protein MT1. Sauer K, et al. **Eur J Biochem** 1997 Feb 1;243(3):670–7

Purification of a product from Salmonella typhimurium with the ability to inhibit mitogen-induced proliferation of murine splenic T-lymphocytes. Matsui K. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):155–60

Purification and partial characterization of a novel human platelet aggregation factor in the extracellular products of Streptococcus mitis, strain Nm-65. Ohkuni H, et al. **FEMS Immunol Med Microbiol** 1997 Feb;17(2):121–9

Modification of the plasmid initiator protein RepC active site during replication. Rasooly A, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):245–53

Purification and characterization of malate dehydrogenase from the syntrophic propionate-oxidizing bacterium strain MPOB. van Kuijk BL, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2-3):141–4

Detection of the single-stranded DNA of Streptomyces plasmid pSA1.1 and a binding histone-like protein. Yokoyama E, et al. **FEMS Microbiol Lett** 1996 May 1; 138(2-3):197–200

Cloning and sequence analysis of zooA, a Streptococcus zooepidemicus gene encoding a bacteriocin-like inhibitory substance having a domain structure similar to that of lysostaphin. Simmonds RS, et al. **Gene** 1997 Apr 21; 189(2):255–61

A new putative fimbrial colonization factor, CS19, of human enterotoxigenic Escherichia coli. Grewal HM, et al. **Infect Immun** 1997 Feb;65(2):507–13

Characterization of a novel lipoprotein expressed by Haemophilus ducreyi. Hiltke TJ, et al. **Infect Immun** 1996 Dec;64(12):5047–52

Detection of tet(K) and tet(M) in Staphylococcus aureus of Asian countries by the polymerase chain reaction. Warsa UC, et al. **J Antibiot (Tokyo)** 1996 Nov;49(11):1127–32

Comparative characterization of SecA from the alpha-subclass purple bacterium Rhodobacter capsulatus and Escherichia coli reveals differences in membrane and precursor specificity. Helde R, et al. **J Bacteriol** 1997 Jun; 179(12):4003–12

Two polypeptide products of the Escherichia coli cell division gene ftsW and a possible role for FtsW in FtsZ function. Khattar MM, et al. **J Bacteriol** 1997 Feb;

179(3):784–93

Assembly of the switch complex onto the MS ring complex of Salmonella typhimurium does not require any other flagellar proteins. Kubori T, et al. **J Bacteriol** 1997 Feb; 179(3):813–7

Purification and characterization of the Streptomyces lividans initiator protein DnaA. Majka J, et al. **J Bacteriol** 1997 Apr;179(7):2426–32

Sulfur-binding protein of flagella of Thiobacillus ferrooxidans. Ohmura N, et al. **J Bacteriol** 1996 Oct; 178(19):5776–80

Purification and characterization of an arginine regulatory protein, ArgR, from Pseudomonas aeruginosa and its interactions with the control regions for the car, argF, and aru operons. Park SM, et al. **J Bacteriol** 1997 Sep; 179(17):5309–17

Purification of Vibrio cholerae fur and estimation of its intracellular abundance by antibody sandwich enzyme-linked immunosorbent assay. Watnick PI, et al. **J Bacteriol** 1997 Jan;179(1):243–7

Analysis of the PHA granule-associated proteins GA20 and GA11 in Methylobacterium extorquens and Methylobacterium rhodesianum. Föllner CG, et al. **J Basic Microbiol** 1997;37(1):11–21

Rapid purification of two thermophilic proteinases using dye-ligand chromatography. Cowan DA, et al. **J Biochem Biophys Methods** 1996 Jan 11;31(1–2):31–7

Improved method for rapid purification of protein kinase from streptomycetes. Janeček J, et al. **J Biochem Biophys Methods** 1996 Jan 11;31(1–2):9–15

Overexpression, purification, and characterization of the SbcCD protein from Escherichia coli. Connelly JC, et al. **J Biol Chem** 1997 Aug 8;272(32):19819–26

Fast large-scale purification of tetracycline repressor variants from overproducing Escherichia coli strains. Ettner N, et al. **J Chromatogr A** 1996 Aug 23;742(1–2):95–105

Purification and identification of a metabolite from Escherichia coli which is toxic to mosquito larvae. Thanabalu T, et al. **J Invertebr Pathol** 1996 May; 67(3):306–8

Lipopeptides with improved properties: structure by NMR, purification by HPLC and structure–activity relationships of new isoleucyl-rich surfactins. Grangemard I, et al. **J Pept Sci** 1997 Mar–Apr;3(2):145–54

Effective isolation of MPB64 from a large volume of culture filtrate of Mycobacterium bovis BCG Tokyo. Haga S, et al. **Jpn J Med Sci Biol** 1996 Feb;49(1):15–27

Isolation of a 33-kDa protein antigen from delipidified Mycobacterium tuberculosis H37Rv. Deshpande RG, et al. **Med Microbiol Immunol (Berl)** 1996 Nov;185(3):153–5

Purification and assay of Escherichia coli transcript cleavage factors GreA and GreB. Borukhov S, et al. **Methods Enzymol** 1996;274:315–26

Purification of overproduced Escherichia coli RNA polymerase sigma factors by solubilizing inclusion bodies and refolding from Sarkosyl. Burgess RR. **Methods Enzymol** 1996;273:145–9 (7 ref.)

Sigma factors: purification and DNA binding. Dombroski AJ. **Methods Enzymol** 1996;273:134–44 (25 ref.)

Transcription activation by histone-like protein integration host factor. Goosen N, et al. **Methods Enzymol** 1996; 274:32–43

Bacteriophage T4 middle transcription system: T4-modified RNA polymerase; AsiA, a sigma 70 binding protein; and transcriptional activator MotA. Hinton DM, et al. **Methods Enzymol** 1996;274:43–57

RNA polymerase sigma factors of Bacillus subtilis: purification and characterization. Tatti KM, et al. **Methods Enzymol** 1996;273:149–62 (20 ref.)

Isolation and characterization of a 70 kDa protein from Mycobacterium avium. Ratnakar P, et al. **Microb Pathog** 1996 Dec;21(6):471–86

Subcellular localization of the major autolysin, ATL and its processed proteins in Staphylococcus aureus. Komatsuzawa H, et al. **Microbiol Immunol** 1997; 41(6):469–79

Phosphate-starvation-inducible proteins in Bacillus subtilis: a two-dimensional gel electrophoresis study. Eymann C, et al. **Microbiology** 1996 Nov;142 (Pt 11):3163–70

Enterobactin synthase polypeptides of Escherichia coli are present in an osmotic-shock-sensitive cytoplasmic locality. Hantash FM, et al. **Microbiology** 1997 Jan;143 (Pt 1):147–56

Analysis of a new dimeric extradiol dioxygenase from a naphthalenesulfonate-degrading sphingomonad. Heiss G, et al. **Microbiology** 1997 May;143 (Pt 5):1691–9

A protein having similarity with methylmalonyl–CoA mutase is required for the assimilation of methanol and ethanol by Methylobacterium extorquens AM1. Smith LM, et al. **Microbiology** 1996 Mar;142 (Pt 3):675–84

Purification of the Tn10-specified tetracycline efflux antiporter TetA in a native state as a polyhistidine fusion protein. Aldema ML, et al. **Mol Microbiol** 1996 Jan; 19(1):187–95

Purification and activities of the Rhodobacter capsulatus RpoN (sigma N) protein. Cannon W, et al. **Mol Microbiol** 1996 Jul;21(2):233–45

Purification and characterization of a histone-like protein from the Archaeal isolate AN1, a member of the Thermococcales. Ronimus RS, et al. **Mol Microbiol** 1996 Apr;20(1):77–86

Bipolar localization of a chromosome partition protein in Bacillus subtilis. Lin DCH, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4721–6

Purification and characterization of acetone carboxylase from Xanthobacter strain Py2. Sluis MK, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8456–61

Large-scale isolation of proteins of the large subunit from Escherichia coli ribosomes. Diedrich G, et al. **Protein Expr Purif** 1997 Jun;10(1):42–50

Cloning, expression, and affinity purification of recombinant Shigella flexneri invasion plasmid antigens IpaB and IpaC. Picking WL, et al. **Protein Expr Purif** 1996 Dec;8(4):401–8

High-performance liquid chromatographic separation of Porphyromonas gingivalis fimbriae. Sojar HT, et al. **Protein Expr Purif** 1997 Feb;9(1):49–52

Purification of UhpT, the sugar phosphate transporter of Escherichia coli. Tamai E, et al. **Protein Expr Purif** 1997 Jul;10(2):275–82

Expression, purification, and functional analysis of the TyrR protein of Haemophilus influenzae. Zhu Q, et al. **Protein Expr Purif** 1997 Jul;10(2):237–46

Purification and characterization of dihydroorotate dehydrogenase A from Lactococcus lactis, crystallization and preliminary X-ray diffraction studies of the enzyme. Nielsen FS, et al. **Protein Sci** 1996 May;5(5):852–6

Extremely thermostable L(+)-lactate dehydrogenase from Thermotoga maritima: cloning, characterization, and crystallization of the recombinant enzyme in its tetrameric and octameric state. Ostendorp R, et al. **Protein Sci** 1996 May;5(5):862–73

[Purification and characterization of S-layer protein from Aeromonas hydrophila] Yan Y, et al. **Wei Sheng Wu Hsueh Pao** 1996 Apr;36(2):144–50 (Eng. Abstr.) **(Chi)**

[Molecular epidemiology of meningococcal meningitis in Mali: isolation of a new class 1 protein variant (P1.y)] Koumaré B, et al. **Bull World Health Organ** 1996; 74(4):375–9 (Eng. Abstr.) **(Fre)**

[Poly-(3-hydroxybutyrate) granules in Bacillus megaterium. Isolation and analysis of associated proteins] Vázquez GJ, et al. **Rev Argent Microbiol** 1996 Jul–Sep;28(3):118–22 (Eng. Abstr.) **(Spa)**

[Comparative study of 3 heterologous expression systems for obtaining recombinant Bacillus thuringiensis delta-endotoxins] Vázquez R, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):237–44 (Eng. Abstr.) **(Spa)**

METABOLISM

Mutagenesis and ultraviolet inactivation of transforming DNA of Haemophilus influenzae complexed with a Bacillus subtilis protein that alters DNA conformation. Setlow JK, et al. **Acta Biochim Pol** 1996;43(1):107–14

Protein-tyrosine phosphatase activity of Coxiella burnetii that inhibits human neutrophils. Li YP, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):263–72

Binding of human enterotoxigenic Escherichia coli expressing coli surface antigen 6 to rabbit intestinal enterocytes and glycoproteins. Helander A, et al. **Adv Exp Med Biol** 1997; 412:257–8

Oxidoreductase-type enzymes and redox proteins involved in fermentative metabolisms of hyperthermophilic Archaea. Adams MW, et al. **Adv Protein Chem** 1996;48:101–80 (210 ref.)

Identification of secreted proteins of Mycobacterium tuberculosis. Behlau I, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:280–1

Census and consensus in bacterial ecosystems: the LuxR–LuxI family of quorum-sensing transcriptional regulators. Fuqua C, et al. **Annu Rev Microbiol** 1996; 50:727–51 (106 ref.)

Isolation of a gene encoding a novel spectinomycin phosphotransferase from Legionella pneumophila. Suter TM, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1385–8

Altered binding of the Cry1Ac toxin to larval membranes but not to the toxin-binding protein in Plodia interpunctella selected for resistance to different Bacillus thuringiensis isolates. Mohammed SI, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4168–73

Biochemical and molecular characterization of the insecticidal fragment of CryV. Sekar V, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2798–801

Unique regulation of crystal protein production in Bacillus thuringiensis subsp. yunnanensis is mediated by the cry protein–encoding 103-megadalton plasmid. Srinivas G, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2792–7

Selenophosphate synthetase: enzyme labeling studies with [gamma-32P]ATP, [beta-32P]ATP, [8-14C]ATP, and [75Se]selenide. Liu SY, et al. **Arch Biochem Biophys** 1997 May 15;341(2):353–9

Accumulation of sulfoquinovosyl-1-O-dihydroxyacetone in a sulfolipid-deficient mutant of Rhodobacter sphaeroides inactivated in sqdC. Rossak M, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):219–30

Structural and catalytic properties of CMP kinase from Bacillus subtilis: a comparative analysis with the homologous enzyme from Escherichia coli. Schultz CP, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):144–53

A monoclonal antibody to avidin dissociates quaternary structure and curtails biotin binding to avidin and streptavidin. Subramanian N, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):281–8

Some like it cold: response of microorganisms to cold shock. Graumann P, et al. **Arch Microbiol** 1996 Nov; 166(5):293–300 (65 ref.)

A novel heme protein that acts as a carbon monoxide-dependent transcriptional activator in Rhodospirillum rubrum. Aono S, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):752–6

Bacillus subtilis Ffh, a homologue of mammalian SRP54, can intrinsically bind to the precursors of secretory proteins. Bunai K, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):762–7

DnaJ potentiates the interaction between DnaK and alpha-helical peptides. de Crouy-Chanel A, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):627–30

Cross-linking studies and membrane localization and assembly of radiolabelled large mechanosensitive ion channel (MscL) of Escherichia coli. Häse CC, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):777–82

The carboxyl-terminal region is essential for Sec-A dimerization. Hirano M, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):90–5

Protein kinase associated with ribosomes phosphorylates ribosomal proteins of Streptomyces collinus. Mikulik K, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):370–6

RNA helicase activity of Escherichia coli SecA protein. Park SK, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):593–7

Analysis of the mismatch and insertion/deletion binding properties of Thermus thermophilus, HB8, MutS. Whitehouse A, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):834–7

A flavin reductase stimulates DszA and DszC proteins of Rhodococcus erythropolis IGTS8 in vitro. Xi L, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):73–5

Helicobacter pylori vacuolating cytotoxin binds to the 140-kDa protein in human gastric cancer cell lines, AZ-521 and AGS. Yahiro K, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):629–32

The role of mex-gene products in antibiotic extrusion in Pseudomonas aeruginosa. Yoneyama H, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):611–8

tRNA–ribosome interactions. Ehrenberg M, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1049–54 (35 ref.)

The activation of beta-galactosidase (E. coli) by Mg(2+) at lower pH values. Martinez-Bilbao M, et al. **Biochem Cell Biol** 1996;74(2):295–8

Modulation of the cleavage of glycosylphosphatidylinositol-anchored proteins by specific bacterial phospholipases. Sharom FJ, et al. **Biochem Cell Biol** 1996;74(5):701–13

Both an altered DNA structure and cellular proteins are involved in protecting a triplex forming an oligopurine-rich sequence from Dam methylation in E. coli. Klysik J. **Biochem Genet** 1996 Jun;34(5–6):165–78

pH-dependence for binding a single nitrite ion to each type-2 copper centre in the copper-containing nitrite reductase of Alcaligenes xylosoxidans. Abraham ZH, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):511–6

Purification of a protein from Agrobacterium tumefaciens strain A348 that binds phenolic compounds. Dyé F, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):319–24

Interaction between Clostridium thermocellum endoglucanase CelD and polypeptides derived from the cellulosome-integrating protein CipA: stoichiometry and cellulolytic activity of the complexes. Kataeva I, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):617–24

Properties of a cysteine-free proton-pumping nicotinamide nucleotide transhydrogenase. Meuller J, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):681–7

Genetic information 'created' by archaebacterial DNA polymerase. Ogata N, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):667–71

Identification of critical residues in the colicin E9 DNase binding region of the Im9 protein. Osborne MJ, et al. **Biochem J** 1997 May 1;323 (Pt 3):823–31

Escherichia coli L-aspartate-alpha-decarboxylase: preprotein processing and observation of reaction intermediates by electrospray mass spectrometry. Ramjee MK, et al. **Biochem J** 1997 May 1;323 (Pt 3):661–9

Modified proenzymes as artificial substrates for proteolytic enzymes: colorimetric assay of bacterial collagenase and matrix metalloproteinase activity using modified pro-urokinase. Verheijen JH, et al. **Biochem J** 1997 May 1;323 (Pt 3):603–9

Asporogenic Bacillus megaterium mutant 27-36 degrades intrinsically short-lived proteins but fails to convert most of other proteins to a short-lived fraction. Chaloupka J, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1185–92

Behavior of uridine phosphorylase from Escherichia coli K-12 in hydrated reversed micelles of surfactant in organic solvent. Kurganov BI, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):547–54

Properties of Thermus aquaticus beta-NADH oxidase immobilised on various supports. Sanjust E, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):555–62

Identification of two poly(A) polymerases in Bacillus subtilis. Sarkar B, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):1045–50

Equilibrium and pre-equilibrium fluorescence studies on the interaction between protein L and kappa light chain.

Beckingham JA, et al. **Biochem Soc Trans** 1997 Feb; 25(1):38S

Protein targeting and translocation in cyanobacterial membrane biogenesis. Howe CJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):750–3 (37 ref.)

Exploiting nucleotide thiophosphates to probe mechanistic aspects of Escherichia coli DNA gyrase. Cullis PM, et al. **Biochemistry** 1997 May 20;36(20):6059–68

Domain interactions of the peripheral preprotein Translocase subunit SecA. den Blaauwen T, et al. **Biochemistry** 1996 Sep 17;35(37):11194–2004

Identification of a Tus protein segment that photo–cross–links with TerB DNA and elucidation of the role of certain thymine methyl groups in the Tus–TerB complex using halogenated uracil analogues. Duggan LJ, et al. **Biochemistry** 1996 Dec 3;35(48):15391–6

Kinetic evidence for peptide–induced oligomerization of the molecular chaperone DnaK at heat shock temperatures. Farr CD, et al. **Biochemistry** 1997 Sep 2;36(35):10793–800

Active site mutants implicate key residues for control of color and light cycle kinetics of photoactive yellow protein. Genick UK, et al. **Biochemistry** 1997 Jan 7;36(1):8–14

Cobalamin–dependent methionine synthase is a modular protein with distinct regions for binding homocysteine, methyltetrahydrofolate, cobalamin, and adenosylmethionine. Goulding CW, et al. **Biochemistry** 1997 Jul 1;36(26):8082–91

C repeats of teh streptococcal M1 protein achieve the human serum albumin binding ability by flanking regions which stabilize the coiled–coil conformation. Gubbe K, et al. **Biochemistry** 1997 Jul 1;36(26):8107–13

General concept for ion translocation by halobacterial retinal proteins: the isomerization/switch/transfer (IST) model. Haupts U, et al. **Biochemistry** 1997 Jan 7;36(1):2–7

Strand specificity in the interactions of Escherichia coli primary replicative helicase DnaB protein with a replication fork. Jezewska MJ, et al. **Biochemistry** 1997 Aug 19;36(33):10320–6

The serine chemoreceptor from Escherichia coli is methylated through an inter–dimer process. Li J, et al. **Biochemistry** 1997 Sep 30;36(39):11851–7

Excitation energy transfer between the B850 and B875 antenna complexes of Rhodobacter sphaeroides. Nagarajan V, et al. **Biochemistry** 1997 Feb 25;36(8):2300–6

Thermostability and irreversible activity loss of exoglucanase/xylanase Cex from Cellulomonas fimi. Nikolova PV, et al. **Biochemistry** 1997 Feb 11;36(6):1381–8

Specificity of DNA repair methyltransferases determined by competitive inactivation with oligonucleotide substrates: evidence that Escherichia coli Ada repairs O6–methylguanine and O4–methylthymine with similar efficiency. Paalman SR, et al. **Biochemistry** 1997 Sep 16; 36(37):11118–24

GrpE accelerates nucleotide exchange of the molecular chaperone DnaK with an associative displacement mechanism. Packschies L, et al. **Biochemistry** 1997 Mar 25;36(12):3417–22

Preferential interactions of the Escherichia coli LexA repressor with anions and protons are coupled to binding the recA operator. Relan NK, et al. **Biochemistry** 1997 Feb 4;36(5):1077–84

Conformational and functional properties of an undecapeptide epitope fused with the C–terminal end of the maltose binding protein. Rondard P, et al. **Biochemistry** 1997 Jul 22;36(29):8954–61

Mutational analysis of an antigenic peptide shows recognition in a loop conformation. Rondard P, et al. **Biochemistry** 1997 Jul 22;36(29):8962–8

Effect of glutaredoxin and protein disulfide isomerase on the glutathione–dependent folding of ribonuclease A. Ruoppolo M, et al. **Biochemistry** 1997 Oct 7; 36(40):12259–67

The role of the extrinsic 33 kDa protein in Ca2+ binding in photosystem II. Seidler A, et al. **Biochemistry** 1996 Sep 17;35(37):12104–10

Factors influencing redox thermodynamics and electron self–exchange for the [Fe4S4] cluster in Chromatium vinosum high potential iron protein: the role of core aromatic residues in defining cluster redox chemistry. Soriano A, et al. **Biochemistry** 1996 Sep 24;35(38):12479–86

Spectroscopic determination of open complex formation at promoters for Escherichia coli RNA polymerase. Sullivan JJ, et al. **Biochemistry** 1997 Jul 1;36(26):8005–12

Oxidation of ubiquinol by cytochrome bo3 from Escherichia coli: kinetics of electron and proton transfer. Svensson Ek M, et al. **Biochemistry** 1997 May 6;36(18):5425–31

Kinetics of the RNA–DNA helicase activity of Escherichia coli transcription termination factor rho. 1. Characterization and analysis of the reaction. Walstrom KM, et al. **Biochemistry** 1997 Jul 1;36(26):7980–92

A secretory protein involved in the antagonistic interactions between methanotrophic bacteria. Pashkova NI, et al. **Biochemistry (Mosc)** 1997 Apr;62(4):386–90

Cysteine–286 as the site of acylation of the Lux–specific fatty acyl–CoA reductase. Lee CY, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):215–22

The hydrophobic region of signal peptides is involved in the interaction with membrane–bound SecA. Mori H, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):23–36

Translational coupling in the Escherichia coli operon encoding translation initiation factor IF3 and ribosomal proteins L20 and L35. Chiaruttini C, et al. **Biochimie** 1996; 78(7):555–67

The hinge region of Escherichia coli ribosomal protein L7/L12 is required for factor binding and GTP hydrolysis. Dey D, et al. **Biochimie** 1995;77(12):925–30

An investigation into the ability of C–terminal homologues of Escherichia coli low molecular mass penicillin–binding proteins 4, 5 and 6 to undergo membrane interaction. Harris F, et al. **Biochimie** 1997 Apr;79(4):171–4

Dual functions of ribosome recycling factor in protein biosynthesis: disassembling the termination complex and preventing translational errors. Janosi L, et al. **Biochimie** 1996;78(11–12):959–69 (50 ref.)

Growth phase and growth rate dependence of ribosomal peptidyltransferase activity status in Escherichia coli. Kalpaxis DL, et al. **Biochimie** 1995;77(12):963–71

IbpA and IbpB, the new heat–shock proteins, bind to endogenous Escherichia coli proteins aggregated intracellularly by heat shock. Laskowska E, et al. **Biochimie** 1996;78(2):117–22

Importance of the replication origin sequestration in cell division of Escherichia coli. Meury J, et al. **Biochimie** 1995; 77(11):875–9

Comparison of the hydrolysis of Zn–PPi2– and the MgPPi2– as substrates and the effect of free cations upon membrane–bound pyrophosphatase of Rhodospirillum rubrum. Romero I, et al. **Biochimie** 1995;77(12):949–52

In vitro inhibition of RecA–mediated homologous pairing by UmuD'C proteins. Szpilewska H, et al. **Biochimie** 1995; 77(11):848–53

Biotin–fluorophore conjugates with poly(ethylene glycol) spacers retain intense fluorescence after binding to avidin and streptavidin. Gruber HJ, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):552–9

Novel biotinylated plasmid expression vectors retain biological function and can bind streptavidin. Leahy P, et al. **Bioconjug Chem** 1996 Sep–Oct;7(5):545–51

Cell targeting of a pore–forming toxin, CytA delta–endotoxin from Bacillus thuringiensis subspecies israelensis, by conjugating CytA with anti–Thy 1 monoclonal antibodies and insulin. al–yahyaee SA, et al. **Bioconjug Chem** 1996 Jul–Aug;7(4):451–60

A non–radioactive and two radioactive assays for selenophosphate synthetase activity. Liu SY, et al. **Biofactors** 1997;6(3):305–9

Assaying phage–borne peptides by phage capture on fibrinogen or streptavidin. Bonnycastle LL, et al. **Biol Chem** 1997 Jun;378(6):509–15

Study of tyrosine–containing mutants of ribosomal protein L7/L12 from Escherichia coli. Todorova RT, et al. **Biophys Chem** 1996 Nov 29;62(1–3):39–45

Protein–protein diffusional encounter [comment] Briggs JM. **Biophys J** 1997 May;72(5):1915–6. Comment on: Biophys J 1997 May;72(5):1917–29.

Simulation of the diffusional association of barnase and barstar [see comments] Gabdoulline RR, et al. **Biophys J** 1997 May;72(5):1917–29. Comment in: Biophys J 1997 May;72(5):1915–6.

Interactions of Escherichia coli primary replicative helicase DnaB protein with nucleotide cofactors. Jezewska MJ, et al. **Biophys J** 1996 Oct;71(4):2075–86

Redox effects on the excited–state lifetime in chlorosomes and bacteriochlorophyll c oligomers. van Noort PI, et al. **Biophys J** 1997 Jan;72(1):316–25

Isolation, characterization, and magnesium–induced self–association kinetics of discrete aggregates of RecA protein from Escherichia coli. Budzynski DM, et al. **Biopolymers** 1996 Apr;38(4):471–91

FosB in the suprachiasmatic nucleus of the Syrian and Siberian hamster. Ebling FJ, et al. **Brain Res Bull** 1996; 41(5):257–68

Prevalence of various phenotypes of Streptococcus suis isolated from swine in the U.S.A. based on the presence of muraminidase–released protein and extracellular factor. Galina L, et al. **Can J Vet Res** 1996 Jan;60(1):72–4

Transgenic mice expressing the Sh ble bleomycin resistance gene are protected against bleomycin–induced pulmonary fibrosis. Weinbach J, et al. **Cancer Res** 1996 Dec 15; 56(24):5659–65

Damage inducible mutagenesis: recent insights into the activities of the Umu family of mutagenesis proteins. Woodgate R, et al. **Cancer Surv** 1996;28:117–40 (98 ref.)

The Escherichia coli MutS DNA mismatch binding protein specifically binds O(6)–methylguanine DNA lesions. Rasmussen LJ, et al. **Carcinogenesis** 1996 Sep;17(9):2085–8

Detection of DNA damage by Escherichia coli UvrB–binding competition assay is limited by the stability of the UvrB–DNA complex. Routledge MN, et al. **Carcinogenesis** 1997 Jul;18(7):1407–13

Cell type–specific phosphorylation and proteolysis of a transcriptional regulator controls the G1–to–S transition in a bacterial cell cycle. Domian IJ, et al. **Cell** 1997 Aug 8;90(3):415–24

Direct binding of FtsZ to ZipA, an essential component of the septal ring structure that mediates cell division in E. coli. Hale CA, et al. **Cell** 1997 Jan 24;88(2):175–85

Redox signal transduction: mutations shifting [2Fe–2S] centers of the SoxR sensor–regulator to the oxidized form. Hidalgo E, et al. **Cell** 1997 Jan 10;88(1):121–9

A proteinaceous gene regulatory thermometer in Salmonella. Hurme R, et al. **Cell** 1997 Jul 11;90(1):55–64

An exported peptide functions intracellularly to contribute to cell density signaling in B. subtilis. Lazazzera BA, et al. **Cell** 1997 Jun 13;89(6):917–25

The C–terminal domain of TolA is the coreceptor for filamentous phage infection of E. coli. Riechmann L, et al. **Cell** 1997 Jul 25;90(2):351–60

The E. coli signal recognition particle is required for the insertion of a subset of inner membrane proteins. Ulbrandt ND, et al. **Cell** 1997 Jan 24;88(2):187–96

Physical interactions between members of the DnaK chaperone machinery: characterization of the DnaK.GrpE complex. Reid KL, et al. **Cell Stress Chaperones** 1996 Jun; 1(2):127–37

Nonsteric factors dominate binding of nitric oxide, azide, imidazole, cyanide, and fluoride to the rhizobial heme–based oxygen sensor FixL. Winkler WC, et al. **Chem Biol** 1996 Oct;3(10):841–50

Modification of the Mycobacterium bovis extracellular protein MPB70 with fluorescein for rapid detection of specific serum antibodies by fluorescence polarization. Lin M, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):438–43

T cell responses to a mixture of Mycobacterium tuberculosis peptides with complementary HLA–DR binding profiles. Jurcevic S, et al. **Clin Exp Immunol** 1996 Sep;105(3):416–21

Absence of streptococcal protein G (PG)–specific determinant in the Fab region of human IgG2. Perosa F, et al. **Clin Exp Immunol** 1997 Aug;109(2):272–8

Essential features of the pathway for protein translocation across the Escherichia coli cytoplasmic membrane. Murphy C, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:277–83

On the road to translocase. Wickner W, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:285–90 (59 ref.)

Biochemical evidence for the presence of an unconventional actin protein in a prokaryotic organism. Labbé JP, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jul; 114(3):287–93

Holliday bound. **Curr Biol** 1996 Dec 1;6(12):1541

Plant transformation: a pilus in Agrobacterium T–DNA transfer. Baron C, et al. **Curr Biol** 1996 Dec 1;6(12):1567–9 (12 ref.)

Molecular chaperones: clasping the prize. Gething MJ. **Curr Biol** 1996 Dec 1;6(12):1573–6 (19 ref.)

Receptor signaling: dimerization and beyond. Stock J. **Curr Biol** 1996 Jul 1;6(7):825–7 (18 ref.)

Metabolism and evolution of Haemophilus influenzae deduced from a whole–genome comparison with Escherichia coli. Tatusov RL, et al. **Curr Biol** 1996 Mar 1;6(3):279–91

Lac repressor–operator complex. Kercher MA, et al. **Curr Opin Struct Biol** 1997 Feb;7(1):76–85 (97 ref.)

Modular multidomain phosphoryl transfer proteins of bacteria. Reizer J, et al. **Curr Opin Struct Biol** 1997 Jun; 7(3):407–15 (51 ref.)

Making DNA do a U–turn: IHF and related proteins. Rice PA. **Curr Opin Struct Biol** 1997 Feb;7(1):86–93 (61 ref.)

Repressor induced site–specific binding of HU for transcriptional regulation. Aki T, et al. **EMBO J** 1997 Jun; 16(12):3666–74

MutS mediates heteroduplex loop formation by a translocation mechanism. Allen DJ, et al. **EMBO J** 1997 Jul 16;16(14):4467–76

Status of YopM and YopN in the Yersinia Yop virulon: YopM of Y.enterocolitica is internalized inside the cytosol of PU5–1.8 macrophages by the YopB, D, N delivery apparatus. Boland A, et al. **EMBO J** 1996 Oct 1; 15(19):5191–201

Multidrug resistance in Lactococcus lactis: evidence for ATP–dependent drug extrusion from the inner leaflet of the cytoplasmic membrane. Bolhuis H, et al. **EMBO J** 1996 Aug 15;15(16):4239–45

TolA central domain interacts with Escherichia coli porins. Derouiche R, et al. **EMBO J** 1996 Dec 2;15(23):6408–15

The SecDFyajC domain of preprotein translocase controls preprotein movement by regulating SecA membrane cycling. Duong F, et al. **EMBO J** 1997 Aug 15; 16(16):4871–9

Distinct catalytic roles of the SecYE, SecG and SecDFyajC subunits of preprotein translocase holoenzyme. Duong F, et al. **EMBO J** 1997 May 15;16(10):2756–68

The protease–protected 30 kDa domain of SecA is largely inaccessible to the membrane lipid phase. Eichler J, et al. **EMBO J** 1997 May 1;16(9):2188–96

Release factor RF3 in E.coli accelerates the dissociation of release factors RF1 and RF2 from the ribosome in a GTP–dependent manner. Freistroffer DV, et al. **EMBO J** 1997 Jul 1;16(13):4126–33

Dynamics of DNA–tracking by two sliding–clamp proteins. Fu TJ, et al. **EMBO J** 1996 Aug 15;15(16):4414–22

UvrAB activity at a damaged DNA site: is unpaired DNA present? Gordienko I, et al. **EMBO J** 1997 Feb 17; 16(4):880–8

The limited strand–separating activity of the UvrAB protein complex and its role in the recognition of DNA damage. Gordienko I, et al. **EMBO J** 1997 Feb 17;16(4):889–95

Why is the initiation nick site of an AT–rich rolling circle plasmid at the tip of a GC–rich cruciform? Jin R, et al. **EMBO J** 1997 Jul 16;16(14):4456–66

A protease complex in the Escherichia coli plasma membrane: HflKC (HflA) forms a complex with FtsH (HflB), regulating its proteolytic activity against SecY. Kihara A, et al. **EMBO J** 1996 Nov 15;15(22):6122–31

Identification of two regions in the N–terminal domain of ActA involved in the actin comet tail formation by Listeria monocytogenes. Lasa I, et al. **EMBO J** 1997 Apr 1;

16(7):1531–40

Negative control of DNA replication by hydrolysis of ATP bound to DnaA protein, the initiator of chromosomal DNA replication in Escherichia coli. Mizushima T, et al. **EMBO J** 1997 Jun;16(12):3724–30

The GroE chaperonin machine is a major modulator of the CIRCE heat shock regulon of Bacillus subtilis. Mogk A, et al. **EMBO J** 1997 Aug 1;16(15):4579–90

Subunit interactions in ABC transporters: a conserved sequence in hydrophobic membrane proteins of periplasmic permeases defines an important site of interaction with the ATPase subunits. Mourez M, et al. **EMBO J** 1997 Jun 2; 16(11):3066–77

Transcription factor recognition surface on the RNA polymerase alpha subunit is involved in contact with the DNA enhancer element. Murakami K, et al. **EMBO J** 1996 Aug 15;15(16):4358–67

Dis3, implicated in mitotic control, binds directly to Ran and enhances the GEF activity of RCC1. Noguchi E, et al. **EMBO J** 1996 Oct 15;15(20):5595–605

Fast recycling of Escherichia coli ribosomes requires both ribosome recycling factor (RRF) and release factor RF3. Pavlov MY, et al. **EMBO J** 1997 Jul 1;16(13):4134–41

Co-translational protein targeting catalyzed by the Escherichia coli signal recognition particle and its receptor. Powers T, et al. **EMBO J** 1997 Aug 15;16(16):4880–6

The RuvC protein dimer resolves Holliday junctions by a dual incision mechanism that involves base-specific contacts. Shah R, et al. **EMBO J** 1997 Mar 17; 16(6):1464–72

Modulation of bacterial entry into epithelial cells by association between vinculin and the Shigella IpaA invasin. Tran Van Nhieu G, et al. **EMBO J** 1997 May 15; 16(10):2717–29

Evidence for propeptide-assisted folding of the calcium-dependent protease of the cyanobacterium Anabaena [published erratum appears in 1997 Apr 1;245(1):214] Baier K, et al. **Eur J Biochem** 1996 Nov 1; 241(3):750–5

Phosphoprotein PII from cyanobacteria--analysis of functional conservation with the PII signal-transduction protein from Escherichia coli. Forchhammer K, et al. **Eur J Biochem** 1997 Mar 15;244(3):869–75

Amplified expression, purification and functional reconstitution of the dipeptide and tripeptide transport protein of Lactococcus lactis. Hagting A, et al. **Eur J Biochem** 1997 Jul 15;247(2):581–7

Characterization of the binding properties of protein LG, an immunoglobulin-binding hybrid protein. Kihlberg BM, et al. **Eur J Biochem** 1996 Sep 15;240(3):556–63

Role of Escherichia coli histone-like nucleoid-structuring protein in bacterial metabolism and stress response--identification of targets by two-dimensional electrophoresis. Laurent-Winter C, et al. **Eur J Biochem** 1997 Mar 15;244(3):767–73

Characterization of the interaction between the Staphylococcus aureus clumping factor (ClfA) and fibrinogen. McDevitt D, et al. **Eur J Biochem** 1997 Jul 1;247(1):416–24

Specific binding of DnaA protein to a DnaA box in the guaB gene of Escherichia coli K12. Tesfa-Selase F, et al. **Eur J Biochem** 1996 Oct 15;241(2):411–6

The primary structure of Rhodoferax fermentans high-potential iron-sulfur protein, an electron donor to the photosynthetic reaction center. Van Driessche G, et al. **Eur J Biochem** 1997 Mar 1;244(2):371–7

Aminopeptidase N from Bombyx mori as a candidate for the receptor of Bacillus thuringiensis Cry1Aa toxin. Yaoi K, et al. **Eur J Biochem** 1997 Jun 15;246(3):652–7

Tumor necrosis factor alpha and interleukin 6 release induced by antibiotic killing of Pseudomonas aeruginosa and Staphylococcus aureus. Schneider CM, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):467–71

Subunit a of proton ATPase F0 sector is a substrate of the FtsH protease in Escherichia coli. Akiyama Y, et al. **FEBS Lett** 1996 Dec 9;399(1–2):26–8

Characterization of the amsI gene product as a low molecular weight acid phosphatase controlling exopolysaccharide synthesis of Erwinia amylovora. Bugert P, et al. **FEBS Lett** 1997 Jan 3;400(2):252–6

Production of a soluble and active MBP-scFv fusion: favorable effect of the leaky tolR strain. Chames P, et al. **FEBS Lett** 1997 Mar 24;405(2):224–8

The E. coli SRP: preferences of a targeting factor. De Gier JW, et al. **FEBS Lett** 1997 May 12;408(1):1–4 (33 ref.)

Antenna size dependent exciton dynamics in the chlorosomal antenna of the green bacterium Chloroflexus aurantiacus. Fetisova Z, et al. **FEBS Lett** 1996 Apr 1;383(3):233–6

Isolated domain II and III from the Bacillus thuringiensis Cry1Ab delta-endotoxin binds to lepidopteran midgut membranes. Flores H, et al. **FEBS Lett** 1997 Sep 8; 414(2):313–8

Biosynthesis of ketocarotenoids in transgenic cyanobacteria expressing the algal gene for beta-C-4-oxygenase, crtO. Harker M, et al. **FEBS Lett** 1997 Mar 10;404(2–3):129–34

The lysosomal/phagosomal membrane protein h-lamp-1 is a target of the IgA1 protease of Neisseria gonorrhoeae. Hauck CR, et al. **FEBS Lett** 1997 Mar 17;405(1):86–90

Demonstration that the BchH protein of Rhodobacter capsulatus activates S-adenosyl-L-methionine:magnesium protoporphyrin IX methyltransferase. Hinchigeri SB, et al. **FEBS Lett** 1997 May 5;407(3):337–42

Subunit interactions in the Escherichia coli protein translocase: SecE and SecG associate independently with SecY. Homma T, et al. **FEBS Lett** 1997 May 12;408(1):11–5

Identification and characterization of a cyanobacterial DnaX intein. Liu XQ, et al. **FEBS Lett** 1997 May 26;408(3):311–4

Aminopeptidase dependent pore formation of Bacillus thuringiensis Cry1Ac toxin on Trichoplusia ni membranes. Lorence A, et al. **FEBS Lett** 1997 Sep 8;414(2):303–7

Replacement of Pro109 by His in TlpA, a thioredoxin-like protein from Bradyrhizobium japonicum, alters its redox properties but not its in vivo functions. Rossmann R, et al. **FEBS Lett** 1997 Apr 14;406(3):249–54

Mutants of Escherichia coli lacking disulphide oxidoreductases DsbA and DsbB cannot synthesise an exogenous monohaem c-type cytochrome except in the presence of disulphide compounds. Sambongi Y, et al. **FEBS Lett** 1996 Dec 2;398(2–3):265–8

Restriction of intramolecular movements within the Cry1Aa toxin molecule of Bacillus thuringiensis through disulfide bond engineering. Schwartz JL, et al. **FEBS Lett** 1997 Jun 30;410(2–3):397–402

Mutational analysis eliminates Glu64 and Glu94 as candidates for 'catalytic carboxylate' in the bacterial ATP-binding-cassette protein MalK. Stein A, et al. **FEBS Lett** 1997 Aug 18;413(2):211–4

Transferred nuclear Overhauser effect spectroscopy study of a peptide from the PapG pilus subunit bound by the Escherichia coli PapD chaperone. Walse B, et al. **FEBS Lett** 1997 Jul 21;412(1):115–20

Interaction between the CheY response regulator and the histidine-containing phosphotransfer (HPt) domain of the ArcB sensory kinase in Escherichia coli. Yaku H, et al. **FEBS Lett** 1997 May 26;408(3):337–40

Heme C incorporation into the c-type cytochromes FixO and FixP is essential for assembly of the Bradyrhizobium japonicum cbb3-type oxidase. Zufferey R, et al. **FEBS Lett** 1997 Jul 21;412(1):75–8

Histidine 131, not histidine 43, of the Bradyrhizobium japonicum FixN protein is exposed towards the periplasm and essential for the function of the cbb3-type cytochrome oxidase. Zufferey R, et al. **FEBS Lett** 1996 Oct 7; 394(3):349–52

Immunochemical properties of a 60 kDa cell surface-associated heat shock-protein (Hsp60) from Helicobacter pylori. Amini HR, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3–4):163–72

Rifampicin: an inhibitor of Xp12-specific protein phosphorylation in Xanthomonas oryzae pv. oryzae. Cheng CM, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2–3):141–9

M protein mediated adhesion of M type 24 Streptococcus pyogenes stimulates release of interleukin-6 by HEp-2 tissue culture cells. Courtney HS, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):65–70

Immunolocalization of a 22 kDa protein (IPLA7, P22) of Borrelia burgdorferi. Grewe C, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):215–9

Cooperative MetR binding in the Escherichia coli glyA control region. Lorenz E, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):147–52

Detection of the response regulator AgrA in the cytosolic fraction of Staphylococcus aureus by monoclonal antibodies. Morfeldt E, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2–3):195–201

Deletion of the putative effector region of Era, an essential GTP-binding protein in Escherichia coli, causes a dominant-negative phenotype. Pillutla RC, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):47–55

Evidence for a role of NisT in transport of the lantibiotic nisin produced by Lactococcus lactis N8. Qiao M, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):89–93

Carboxyl terminal region of the MukB protein in Escherichia coli is essential for DNA binding activity. Saleh AZ, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2–3):211–6

Phosphorylation of GroEL, DnaK and other proteins from Thiobacillus ferrooxidans grown under different conditions. Seeger M, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):129–34

Is the CvaA protein, encoded within the colicin V export gene cvaA, required for colicin V transport? Skvirsky RC, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):201–6

The 18-kDa lectin-binding protein of Chlamydia trachomatis is different from the 18-kDa histone-like protein. Swanson AF, et al. **FEMS Microbiol Lett** 1996 Apr 1; 137(2–3):189–92

MALT-type lymphoma of the stomach is associated with Helicobacter pylori strains expressing the CagA protein. Eck M, et al. **Gastroenterology** 1997 May;112(5):1482–6

Grand entry for Listeria. Mengaud J, et al. **Gastroenterology** 1997 Mar;112(3):1045–6

Isolation and characterization of csbB, a gene controlled by Bacillus subtilis general stress transcription factor sigma B. Akbar S, et al. **Gene** 1996 Oct 24;177(1–2):123–8

Protein secretion by Gram-negative bacterial ABC exporters--a review. Binet R, et al. **Gene** 1997 Jun 11; 192(1):7–11 (31 ref.)

The invasion-associated type-III protein secretion system in Salmonella--a review. Collazo CM, et al. **Gene** 1997 Jun 11;192(1):51–9 (76 ref.)

Binding and transport of transforming DNA by Bacillus subtilis: the role of type-IV pilin-like proteins--a review. Dubnau D. **Gene** 1997 Jun 11;192(1):191–8 (56 ref.)

Transformation competence and type-4 pilus biogenesis in Neisseria gonorrhoeae--a review. Fussenegger M, et al. **Gene** 1997 Jun 11;192(1):125–34 (93 ref.)

The sensing of plant signal molecules by Agrobacterium: genetic evidence for direct recognition of phenolic inducers by the VirA protein. Lee YW, et al. **Gene** 1996 Nov 7; 179(1):83–8 (20 ref.)

Structure-function relationship of type-IV prepilin peptidase of Pseudomonas aeruginosa--a review. Lory S, et al. **Gene** 1997 Jun 11;192(1):117–21 (26 ref.)

The conserved tetracysteine motif in the general secretory pathway component PulE is required for efficient pullulanase secretion. Possot OM, et al. **Gene** 1997 Jun 11; 192(1):45–50

Recent progress and future directions in studies of the main terminal branch of the general secretory pathway in Gram-negative bacteria--a review. Pugsley AP, et al. **Gene** 1997 Jun 11;192(1):13–9 (60 ref.)

Histone-like protein HU as a specific transcriptional regulator: co-factor role in repression of gal transcription by GAL repressor. Aki T, et al. **Genes Cells** 1996 Feb; 1(2):179–88

The directionality of RuvAB-mediated branch migration: in vitro studies with three-armed junctions. Hiom K, et al. **Genes Cells** 1996 May;1(5):443–51

Roles of cysteine residues of DsbB in its activity to reoxidize DsbA, the protein disulphide bond catalyst of Escherichia coli. Kishigami S, et al. **Genes Cells** 1996 Feb;1(2):201–8

Compartmentalized distribution of the proteins controlling the prespore-specific transcription factor sigmaF of Bacillus subtilis. Lewis PJ, et al. **Genes Cells** 1996 Oct; 1(10):881–94

Subcellular localization of proteins governing the proteolytic activation of a developmental transcription factor in Bacillus subtilis. Resnekov O, et al. **Genes Cells** 1996 Jun; 1(6):529–42

MutT-related error avoidance mechanism for DNA synthesis. Sekiguchi M. **Genes Cells** 1996 Feb;1(2):139–45 (37 ref.)

The Rhizobium meliloti PII protein, which controls bacterial nitrogen metabolism, affects alfalfa nodule development. Arcondéguy T, et al. **Genes Dev** 1997 May 1;11(9):1194–206

The sigma(E) and the Cpx signal transduction systems control the synthesis of periplasmic protein-folding enzymes in Escherichia coli. Danese PN, et al. **Genes Dev** 1997 May 1;11(9):1183–93

Three sites of contact between the Bacillus subtilis transcription factor sigmaF and its antisigma factor SpoIIAB. Decatur AL, et al. **Genes Dev** 1996 Sep 15; 10(18):2348–58

Dynamic, mitotic-like behavior of a bacterial protein required for accurate chromosome partitioning. Glaser P, et al. **Genes Dev** 1997 May 1;11(9):1160–8

Regulation of Escherichia coli cell envelope proteins involved in protein folding and degradation by the Cpx two-component system. Pogliano J, et al. **Genes Dev** 1997 May 1;11(9):1169–82

Biochemical characterization of a molecular switch involving the heat shock protein ClpC, which controls the activity of ComK, the competence transcription factor of Bacillus subtilis. Turgay K, et al. **Genes Dev** 1997 Jan 1;11(1):119–28

Opposing pairs of serine protein kinases and phosphatases transmit signals of environmental stress to activate a bacterial transcription factor. Yang X, et al. **Genes Dev** 1996 Sep 15;10(18):2265–75

Molecular cloning and functional analysis of an rpoS homologue gene from Vibrio cholerae N86. Hiratsu K, et al. **Genes Genet Syst** 1997 Apr;72(2):115–8

Polysialic acid export in Escherichia coli K1: the role of KpsT, the ATP-binding component of an ABC transporter, in chain translocation. Bliss JM, et al. **Glycobiology** 1996 Jun;6(4):445–52

Polyisoprenyl phosphate specificity of UDP-GlcNAc:undecaprenyl phosphate N-acetylglucosaminyl 1-P transferase from E.coli. Rush JS, et al. **Glycobiology** 1997 Mar;7(2):315–22

Bacterial glycoproteins. Messner P. **Glycoconj J** 1997 Jan; 14(1):3–11 (114 ref.)

Host cell heparan sulfate proteoglycans mediate attachment and entry of Listeria monocytogenes, and the listerial surface protein ActA is involved in heparan sulfate receptor recognition. Alvarez-Dominguez C, et al. **Infect Immun** 1997 Jan;65(1):78–88

Binding sites of salivary statherin for Porphyromonas gingivalis recombinant fimbrillin. Amano A, et al. **Infect Immun** 1996 Oct;64(10):4249–54

Expression of slime interferes with in vitro detection of host protein receptors of Staphylococcus epidermidis. Baldassarri L, et al. **Infect Immun** 1997 Apr;65(4):1522–6

Association of RTX toxins with erythrocytes. Bauer ME, et al. **Infect Immun** 1996 Nov;64(11):4665–72

Glucose up-regulates expression of the differentiation-associated brush border binding site for enterotoxigenic Escherichia coli colonization factor antigen I in cultured human enterocyte-like cells. Bernet-Camard MF, et al. **Infect Immun** 1997 Apr;65(4):1299–306

SlyA, a transcriptional regulator of Salmonella typhimurium, is required for resistance to oxidative stress and is expressed in the intracellular environment of macrophages. Buchmeier N, et al. **Infect Immun** 1997 Sep;65(9):3725–30

Identification and characterization of a novel PrfA-regulated gene in Listeria monocytogenes whose product, IrpA, is

highly homologous to internalin proteins, which contain leucine-rich repeats. Domann E, et al. **Infect Immun** 1997 Jan;65(1):101–9

Temperature- and medium-dependent secretion of proteins by Shiga toxin-producing Escherichia coli. Ebel F, et al. **Infect Immun** 1996 Nov;64(11):4472–9

Binding and internalization of the Helicobacter pylori vacuolating cytotoxin by epithelial cells. Garner JA, et al. **Infect Immun** 1996 Oct;64(10):4197–203

Binding of the 68-kilodalton protein of Mycobacterium avium to alpha(v)beta3 on human monocyte-derived macrophages enhances complement receptor type 3 expression. Hayashi T, et al. **Infect Immun** 1997 Apr; 65(4):1211–6

An iron- and fur-repressed Legionella pneumophila gene that promotes intracellular infection and encodes a protein with similarity to the Escherichia coli aerobactin synthetases. Hickey EK, et al. **Infect Immun** 1997 Jan; 65(1):133–43

Secretion of extracellular proteins by enterohemorrhagic Escherichia coli via a putative type III secretion system. Jarvis KG, et al. **Infect Immun** 1996 Nov;64(11):4826–9

Modification of the Staphylococcus aureus fibronectin binding phenotype by V8 protease. McGavin MJ, et al. **Infect Immun** 1997 Jul;65(7):2621–8

Channel-forming activity and channel size of the RTX toxins ApxI, ApxII, and ApxIII of Actinobacillus pleuropneumoniae. Maier E, et al. **Infect Immun** 1996 Nov; 64(11):4415–23

Adhesion of Pseudomonas aeruginosa to respiratory mucins and expression of mucin-binding proteins are increased by limiting iron during growth. Scharfman A, et al. **Infect Immun** 1996 Dec;64(12):5417–20

Localization by site-directed mutagenesis of the site in human complement factor H that binds to Streptococcus pyogenes M protein. Sharma AK, et al. **Infect Immun** 1997 Feb; 65(2):484–7

IpaB, a Shigella flexneri invasin, colocalizes with interleukin-1 beta-converting enzyme in the cytoplasm of macrophages. Thirumalai K, et al. **Infect Immun** 1997 Feb; 65(2):787–93

Further characterization of BT-R1, the cadherin-like receptor for Cry1Ab toxin in tobacco hornworm (Manduca sexta) midguts. Francis BR, et al. **Insect Biochem Mol Biol** 1997 Jun;27(6):541–50

Luminal proteinases from Plodia interpunctella and the hydrolysis of Bacillus thuringiensis CryIA(c) protoxin. Oppert B, et al. **Insect Biochem Mol Biol** 1996 Jun; 26(6):571–83

Affinities of BO-2727 for bacterial penicillin-binding proteins and morphological change of gram-negative rods. Hashizume T, et al. **J Antibiot (Tokyo)** 1997 Feb; 50(2):139–42

Acquired carbapenemases. Livermore DM. **J Antimicrob Chemother** 1997 Jun;39(6):673–6 (32 ref.)

Enzyme kinetics and biochemical analysis of ImiS, the metallo-beta-lactamase from Aeromonas sobria 163a. Walsh TR, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):423–31

Characterization of proteolytic activities of rumen bacterial isolates from forage-fed cattle. Attwood GT, et al. **J Appl Bacteriol** 1996 Nov;81(5):545–52

Proteolytic enzyme activity in lactococci grown in different pretreated milk media. Meijer WC, et al. **J Appl Microbiol** 1997 Aug;83(2):139–46

FtsA is localized to the septum in an FtsZ-dependent manner. Addinall SG, et al. **J Bacteriol** 1996 Dec;178(24):7167–72

Involvement of NtcB, a LysR family transcription factor, in nitrite activation of the nitrate assimilation operon in the cyanobacterium Synechococcus sp. strain PCC 7942. Aichi M, et al. **J Bacteriol** 1997 Aug;179(15):4671–5

BglG, the response regulator of the Escherichia coli bgl operon, is phosphorylated on a histidine residue. Amster-Choder O, et al. **J Bacteriol** 1997 Sep; 179(17):5621–4

Interaction of the trp RNA-Binding attenuation protein (TRAP) of Bacillus subtilis with RNA: effects of the number of GAG repeats, the nucleotides separating adjacent repeats, and RNA secondary structure. Babitzke P, et al. **J Bacteriol** 1996 Sep;178(17):5159–63

VirB1, a component of the T-complex transfer machinery of Agrobacterium tumefaciens, is processed to a C-terminal secreted product, VirB1. Baron C, et al. **J Bacteriol** 1997 Feb;179(4):1203–10

The lipoprotein VirB7 interacts with VirB9 in the membranes of Agrobacterium tumefaciens. Baron C, et al. **J Bacteriol** 1997 Feb;179(4):1211–8

Interactions between VirB9 and VirB10 membrane proteins involved in movement of DNA from Agrobacterium tumefaciens into plant cells. Beaupré CE, et al. **J Bacteriol** 1997 Jan;179(1):78–89

Presence of UDP-N-acetylmuramyl-hexapeptides and -heptapeptides in enterococci and staphylococci after treatment with ramoplanin, tunicamycin, or vancomycin. Billot-Klein D, et al. **J Bacteriol** 1997 Aug;179(15):4684–8

Evidence that KpsT, the ATP-binding component of an ATP-binding cassette transporter, is exposed to the periplasm and associates with polymer during translocation of the polysialic acid capsule of Escherichia coli K1. Bliss JM, et al. **J Bacteriol** 1997 Feb;179(4):1400–3

Use of an in vivo titration method to study a global regulator: effect of varying Lrp levels on expression of gltBDF in Escherichia coli. Borst DW, et al. **J Bacteriol** 1996 Dec; 178(23):6904–12

Nature of DNA binding and RNA polymerase interaction of the Bordetella pertussis BvgA transcriptional activator at the fha promoter. Boucher PE, et al. **J Bacteriol** 1997 Mar;179(5):1755–63

Purification, characterization, and functional analysis of a truncated Klebsiella aerogenes UreE urease accessory protein lacking the histidine-rich carboxyl terminus. Brayman TG, et al. **J Bacteriol** 1996 Sep;178(18):5410–6

A novel ribosome-associated protein is important for efficient translation in Escherichia coli. Bylund GO, et al. **J Bacteriol** 1997 Jul;179(14):4567–74

Cyclic beta-(1,2)-glucan synthesis in Rhizobiaceae: roles of the 319-kilodalton protein intermediate. Castro OA, et al. **J Bacteriol** 1996 Oct;178(20):6043–8

Altered localization of HrpZ in Pseudomonas syringae pv. syringae hrp mutants suggests that different components of the type III secretion pathway control protein translocation across the inner and outer membranes of gram-negative bacteria. Charkowski AO, et al. **J Bacteriol** 1997 Jun;179(12):3866–74

In vivo evidence that acyl coenzyme A regulates DNA binding by the Escherichia coli FadR global transcription factor. Cronan JE Jr. **J Bacteriol** 1997 Mar;179(5):1819–23

SpoVM, a small protein essential to development in Bacillus subtilis, interacts with the ATP-dependent protease FtsH. Cutting S, et al. **J Bacteriol** 1997 Sep;179(17):5534–42

The VirB4 ATPase of Agrobacterium tumefaciens is a cytoplasmic membrane protein exposed at the periplasmic surface. Dang TA, et al. **J Bacteriol** 1997 Jan;179(2):453–62

Delineation of the interaction domains of Agrobacterium tumefaciens VirB7 and VirB9 by use of the yeast two-hybrid assay. Das A, et al. **J Bacteriol** 1997 Jun; 179(11):3404–9

The IncP plasmid-encoded cell envelope-associated DNA transfer complex increases cell permeability. Daugelavicius R, et al. **J Bacteriol** 1997 Aug;179(16):5195–202

Mutation of a single MalK subunit severely impairs maltose transport activity in Escherichia coli. Davidson AL, et al. **J Bacteriol** 1997 Sep;179(17):5458–64

Modulation of recombination and DNA repair by the RecG and PriA helicases of Escherichia coli K-12. Al-Deib AA, et al. **J Bacteriol** 1996 Dec;178(23):6782–9

Contribution of a neopullulanase, a pullulanase, and an alpha-glucosidase to growth of Bacteroides thetaiotaomicron on starch. D'Elia JN, et al. **J Bacteriol** 1996 Dec;178(24):7173–9

The cytoplasmic DNA-binding protein TraM binds to the inner membrane protein TraD in vitro. Disqué-Kochem C, et al. **J Bacteriol** 1997 Oct;179(19):6133–7

Functional domains of Agrobacterium tumefaciens single-stranded DNA-binding protein VirE2. Dombek P, et al. **J Bacteriol** 1997 Feb;179(4):1165–73

Direct quantitation of the number of individual penicillin-binding proteins per cell in Escherichia coli. Dougherty TJ, et al. **J Bacteriol** 1996 Nov;178(21):6110–5

Na+-induced transcription of nhaA, which encodes an Na+/H+ antiporter in Escherichia coli, is positively regulated by nhaR and affected by hns. Dover N, et al. **J Bacteriol** 1996 Nov;178(22):6508–17

Purification and in vitro phosphorylation of HupT, a regulatory protein controlling hydrogenase gene expression in Rhodobacter capsulatus. Elsen S, et al. **J Bacteriol** 1997 Feb;179(3):968–71

Identification of sigma S-regulated genes in Salmonella typhimurium: complementary regulatory interactions between sigma S and cyclic AMP receptor protein. Fang FC, et al. **J Bacteriol** 1996 Sep;178(17):5112–20

Role of the Escherichia coli FadR regulator in stasis survival and growth phase-dependent expression of the uspA, fad, and fab genes. Farewell A, et al. **J Bacteriol** 1996 Nov; 178(22):6443–50

13C nuclear magnetic resonance analysis of glucose and citrate end products in an ldhL-ldhD double-knockout strain of Lactobacillus plantarum. Ferain T, et al. **J Bacteriol** 1996 Dec;178(24):7311–5

Reconstitution of trimethylamine-dependent coenzyme M methylation with the trimethylamine corrinoid protein and the isozymes of methyltransferase II from Methanosarcina barkeri. Ferguson DJ Jr, et al. **J Bacteriol** 1997 Feb; 179(3):846–52

Survival during exposure to the electrophilic reagent N-ethylmaleimide in Escherichia coli: role of KefB and KefC potassium channels. Ferguson GP, et al. **J Bacteriol** 1997 Feb;179(4):1007–12

Evidence that TolC is required for functioning of the Mar/AcrAB efflux pump of Escherichia coli. Fralick JA. **J Bacteriol** 1996 Oct;178(19):5803–5

Escherichia coli SecB stimulates export without maintaining export competence of ribose-binding protein signal sequence mutants. Francetic O, et al. **J Bacteriol** 1996 Oct; 178(20):5954–9

FlgM is a primary regulator of sigmaD activity, and its absence restores motility to a sinR mutant. Fredrick K, et al. **J Bacteriol** 1996 Dec;178(23):7010–3

The DnrN protein of Streptomyces peucetius, a pseudo-response regulator, is a DNA-binding protein involved in the regulation of daunorubicin biosynthesis. Furuya K, et al. **J Bacteriol** 1996 Nov;178(21):6310–8

In vitro phosphorylation study of the arc two-component signal transduction system of Escherichia coli. Georgellis D, et al. **J Bacteriol** 1997 Sep;179(17):5429–35

PhoP-PhoQ activates transcription of pmrAB, encoding a two-component regulatory system involved in Salmonella typhimurium antimicrobial peptide resistance. Gunn JS, et al. **J Bacteriol** 1996 Dec;178(23):6857–64

Incomplete activation of Escherichia coli hemolysin (HlyA) due to mutations in the 3' region of hlyC. Guzmán-Verri C, et al. **J Bacteriol** 1997 Sep;179(18):5959–62

Analysis of the region between amino acids 30 and 42 of intact UmuD by a monocysteine approach. Guzzo A, et al. **J Bacteriol** 1996 Dec;178(24):7295–303

TrbK, a small cytoplasmic membrane lipoprotein, functions in entry exclusion of the IncP alpha plasmid RP4. Haase J, et al. **J Bacteriol** 1996 Dec;178(23):6720–9

The C terminus of the AddA subunit of the Bacillus subtilis ATP-dependent DNase is required for the ATP-dependent exonuclease activity but not for the helicase activity. Haijema BJ, et al. **J Bacteriol** 1996 Sep;178(17):5086–91

Effects of lysine-to-glycine mutations in the ATP-binding consensus sequences in the AddA and AddB subunits on the Bacillus subtilis AddAB enzyme activities. Haijema BJ, et al. **J Bacteriol** 1996 Sep;178(17):5130–7

A novel alternate anaplerotic pathway to the glyoxylate cycle in streptomycetes. Han L, et al. **J Bacteriol** 1997 Aug; 179(16):5157–64

Analysis of deamidation of small, acid-soluble spore proteins from Bacillus subtilis in vitro and in vivo. Hayes CS, et al. **J Bacteriol** 1997 Oct;179(19):6020–7

The HflB protease of Escherichia coli degrades its inhibitor lambda cIII. Herman C, et al. **J Bacteriol** 1997 Jan; 179(2):358–63

Insertional inactivation of the gene for collagen-binding protein has a pleiotropic effect on the phenotype of Staphylococcus aureus. Hienz SA, et al. **J Bacteriol** 1996 Sep;178(17):5327–9

sfi-independent filamentation in Escherichia coli Is lexA dependent and requires DNA damage for induction. Hill TM, et al. **J Bacteriol** 1997 Mar;179(6):1931–9

Characterization of a cytoplasmic trehalase of Escherichia coli. Horlacher R, et al. **J Bacteriol** 1996 Nov; 178(21):6250–7

A methyl-accepting protein involved in multiple-sugar chemotaxis by Cellulomonas gelida. Hsing W, et al. **J Bacteriol** 1996 Sep;178(17):5153–8

Interaction between FtsZ and inhibitors of cell division. Huang J, et al. **J Bacteriol** 1996 Sep;178(17):5080–5

Structure/function analysis of the PII signal transduction protein of Escherichia coli: genetic separation of interactions with protein receptors. Jiang P, et al. **J Bacteriol** 1997 Jul;179(13):4342–53

Probing interactions of the homotrimeric PII signal transduction protein with its receptors by use of PII heterotrimers formed in vitro from wild-type and mutant subunits. Jiang P, et al. **J Bacteriol** 1997 Jul;179(13):4354–60

In vitro inhibitory activity of RepC/C*, the inactivated form of the pT181 plasmid initiation protein, RepC. Jin R, et al. **J Bacteriol** 1997 Jan;179(1):141–7

Uridylylation of the P(II) protein in the photosynthetic bacterium Rhodospirillum rubrum. Johansson M, et al. **J Bacteriol** 1997 Jul;179(13):4190–4

VirB2 is a processed pilin-like protein encoded by the Agrobacterium tumefaciens Ti plasmid. Jones AL, et al. **J Bacteriol** 1996 Oct;178(19):5706–11

Autogenous control of PspF, a constitutively active enhancer-binding protein of Escherichia coli. Jovanovic G, et al. **J Bacteriol** 1997 Aug;179(16):5232–7

Bacillus subtilis Pro-sigmaE fusion protein localizes to the forespore septum and fails to be processed when synthesized in the forespore. Ju J, et al. **J Bacteriol** 1997 Aug;179(15):4888–93

The Haemophilus influenzae dprABC genes constitute a competence-inducible operon that requires the product of the tfoX (sxy) gene for transcriptional activation. Karudapuram S, et al. **J Bacteriol** 1997 Aug; 179(15):4815–20

The nucleoid protein H-NS facilitates chromosome DNA replication in Escherichia coli dnaA mutants. Katayama T, et al. **J Bacteriol** 1996 Oct;178(19):5790–2

Absence of light-induced proton extrusion in a cotA-less mutant of Synechocystis sp. strain PCC6803. Katoh A, et al. **J Bacteriol** 1996 Sep;178(18):5452–5

Expression and characterization of DrrA and DrrB proteins of Streptomyces peucetius in Escherichia coli: DrrA is an ATP binding protein. Kaur P. **J Bacteriol** 1997 Feb; 179(3):569–75

Physiological factors affecting production of extracellular lipase (LipA) in Acinetobacter calcoaceticus BD413: fatty acid repression of lipA expression and degradation of LipA. Kok RG, et al. **J Bacteriol** 1996 Oct;178(20):6025–35

Hook-length control of the export-switching machinery involves a double-locked gate in Salmonella typhimurium flagellar morphogenesis. Kutsukake K. **J Bacteriol** 1997 Feb;179(4):1268–73

Effects of nutrition and growth rate on Lrp levels in Escherichia coli. Landgraf JR, et al. **J Bacteriol** 1996 Dec; 178(23):6930–6

Rhodobacter capsulatus CycH: a bipartite gene product with pleiotropic effects on the biogenesis of structurally different c-type cytochromes. Lang SE, et al. **J Bacteriol** 1996 Sep; 178(17):5279–90

Interactions of Escherichia coli UmuD with activated RecA analyzed by cross-linking UmuD monocysteine

derivatives. Lee MH, et al. **J Bacteriol** 1996 Dec; 178(24):7285–94

Inhibition of RecA–mediated cleavage in covalent dimers of UmuD. Lee MH, et al. **J Bacteriol** 1996 Dec; 178(24):7304–7

Gene overexpression, purification, and identification of a desulfurization enzyme from Rhodococcus sp. strain IGTS8 as a sulfide/sulfoxide monooxygenase. Lei B, et al. **J Bacteriol** 1996 Oct;178(19):5699–705

Characterization and subcellular localization of the Clostridium thermocellum scaffoldin dockerin binding protein SdbA. Leibovitz E, et al. **J Bacteriol** 1997 Apr; 179(8):2519–23

The tfdR gene product can successfully take over the role of the insertion element–inactivated TfdT protein as a transcriptional activator of the tfdCDEF gene cluster, which encodes chlorocatechol degradation in Ralstonia eutropha JMP134(pJP4). Leveau JH, et al. **J Bacteriol** 1996 Dec;178(23):6824–32

MalFGK complex assembly and transport and regulatory characteristics of MalK insertion mutants. Lippincott J, et al. **J Bacteriol** 1997 Feb;179(4):1337–43

The global regulator CsrA of Escherichia coli is a specific mRNA–binding protein. Liu MY, et al. **J Bacteriol** 1997 Jul;179(14):4639–42

NodV and NodW, a second flavonoid recognition system regulating nod gene expression in Bradyrhizobium japonicum. Loh J, et al. **J Bacteriol** 1997 May; 179(9):3013–20

Regulation of the Salmonella typhimurium pepT gene by cyclic AMP receptor protein (CRP) and FNR acting at a hybrid CRP–FNR site. Lombardo MJ, et al. **J Bacteriol** 1997 Mar;179(6):1909–17

Protein conformational change and nucleotide binding involved in regulation of sigmaF in Bacillus subtilis. Lord M, et al. **J Bacteriol** 1996 Dec;178(23):6730–5

Analysis of the in vivo activation of hemolysin (HlyA) from Escherichia coli. Ludwig A, et al. **J Bacteriol** 1996 Sep; 178(18):5422–30

Protein tyrosine phosphorylation in the cyanobacterium Anabaena sp. strain PCC 7120. McCartney B, et al. **J Bacteriol** 1997 Apr;179(7):2314–8

Mutational analysis of protein binding sites involved in formation of the bacteriophage lambda attL complex. MacWilliams M, et al. **J Bacteriol** 1997 Feb;179(4):1059–67

Transcriptional activation of the bkd operon of Pseudomonas putida by BkdR. Madhusudhan KT, et al. **J Bacteriol** 1997 Mar;179(6):1992–7

Protection of DNA during oxidative stress by the nonspecific DNA–binding protein Dps. Martinez A, et al. **J Bacteriol** 1997 Aug;179(16):5188–94

Evidence that the PBP 5 synthesis repressor (psr) of Enterococcus hirae is also involved in the regulation of cell wall composition and other cell wall–related properties. Massidda O, et al. **J Bacteriol** 1996 Sep; 178(17):5272–8

Role of enzymes of homologous recombination in illegitimate plasmid recombination in Bacillus subtilis. Meima R, et al. **J Bacteriol** 1997 Feb;179(4):1219–29

The Cpx two–component signal transduction pathway is activated in Escherichia coli mutant strains lacking phosphatidylethanolamine. Mileykovskaya E, et al. **J Bacteriol** 1997 Feb;179(4):1029–34

Purification and activation properties of UreD–UreF–urease apoprotein complexes. Moncrief MB, et al. **J Bacteriol** 1996 Sep;178(18):5417–21

Characterization of UreG, identification of a UreD–UreF–UreG complex, and evidence suggesting that a nucleotide–binding site in UreG is required for in vivo metallocenter assembly of Klebsiella aerogenes urease. Moncrief MB, et al. **J Bacteriol** 1997 Jul;179(13):4081–6

Heat shock regulation of sigmaS turnover: a role for DnaK and relationship between stress responses mediated by sigmaS and sigma32 in Escherichia coli. Muffler A, et al. **J Bacteriol** 1997 Jan;179(2):445–52

Regulation of gene expression by repressor localization: biochemical evidence that membrane and DNA binding by the PutA protein are mutually exclusive. Muro–Pastor AM, et al. **J Bacteriol** 1997 Apr;179(8):2788–91

Properties of the phosphorylation reaction catalyzed by SpoIIAB that help to regulate sporulation of Bacillus subtilis. Najafi SM, et al. **J Bacteriol** 1997 Sep; 179(17):5628–31

The SpoIIAA protein of Bacillus subtilis has GTP–binding properties. Najafi SM, et al. **J Bacteriol** 1996 Nov; 178(22):6632–4

PcaK, a high–affinity permease for the aromatic compounds 4–hydroxybenzoate and protocatechuate from Pseudomonas putida. Nichols NN, et al. **J Bacteriol** 1997 Aug;179(16):5056–61

Multidrug efflux pumps of gram–negative bacteria. Nikaido H. **J Bacteriol** 1996 Oct;178(20):5853–9 (57 ref.)

Yersinia pestis LcrV forms a stable complex with LcrG and may have a secretion–related regulatory role in the low–Ca2+ response. Nilles ML, et al. **J Bacteriol** 1997 Feb;179(4):1307–16

The FliO, FliP, FliQ, and FliR proteins of Salmonella typhimurium: putative components for flagellar assembly. Ohnishi K, et al. **J Bacteriol** 1997 Oct;179(19):6092–9

Role of scaffolding protein CipC of Clostridium cellulolyticum in cellulose degradation. Pagès S, et al. **J Bacteriol** 1997 May;179(9):2810–6

Purification and characterization of an arginine regulatory protein, ArgR, from Pseudomonas aeruginosa and its interactions with the control regions for the car, argF, and aru operons. Park SM, et al. **J Bacteriol** 1997 Sep; 179(17):5309–17

Role of conserved residues in hydrophilic loop 8–9 of the lactose permease. Pazdernik NJ, et al. **J Bacteriol** 1997 Feb; 179(3):735–41

Deletion mapping of the sites on the HtrI transducer for sensory rhodopsin I interaction. Perazzona B, et al. **J Bacteriol** 1996 Nov;178(22):6475–8

MinCD–independent inhibition of cell division by a protein that fuses MalE to the topological specificity factor MinE. Pichoff S, et al. **J Bacteriol** 1997 Jul;179(14):4616–9

DNA bending by the TrpI protein of Pseudomonas aeruginosa. Piñeiro S, et al. **J Bacteriol** 1997 Sep; 179(17):5407–13

Nitric oxide, nitrite, and Fnr regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K–12. Poole RK, et al. **J Bacteriol** 1996 Sep; 178(18):5487–92

Characterization of membrane and protein interaction determinants of the Agrobacterium tumefaciens VirB11 ATPase. Rashkova S, et al. **J Bacteriol** 1997 Feb; 179(3):583–91

The inactivated plasmid inititator protein RepC/RepC* may have a regulatory role. Rasooly A, et al. **J Bacteriol** 1997 Feb;179(4):1420–2

The TolA protein interacts with colicin E1 differently than with other group A colicins. Schendel SL, et al. **J Bacteriol** 1997 Jun;179(11):3683–90

Bacillus subtilis CcdA–defective mutants are blocked in a late step of cytochrome c biogenesis. Schiött T, et al. **J Bacteriol** 1997 Jul;179(14):4523–9

Activation of the Bacillus subtilis spoIIG promoter requires interaction of Spo0A and the sigma subunit of RNA polymerase. Schyns G, et al. **J Bacteriol** 1997 Sep; 179(17):5605–8

Endogenous ADP–ribosylation of proteins in Mycobacterium smegmatis. Serres MH, et al. **J Bacteriol** 1996 Oct; 178(20):6074–7

CodY is required for nutritional repression of Bacillus subtilis genetic competence. Serror P, et al. **J Bacteriol** 1996 Oct; 178(20):5910–5

Protein–tyrosine phosphorylation in the Archaea. Smith SC, et al. **J Bacteriol** 1997 Apr;179(7):2418–20

Molecular basis of the magnesium deprivation response in Salmonella typhimurium: identification of PhoP–regulated genes. Soncini FC, et al. **J Bacteriol** 1996 Sep; 178(17):5092–9

Quorum sensing in Vibrio fischeri: essential elements for activation of the luminescence genes. Stevens AM, et al. **J Bacteriol** 1997 Jan;179(2):557–62

Neisseria meningitidis tonB, exbB, and exbD genes: Ton–dependent utilization of protein–bound iron in Neisseriae. Stojiljkovic I, et al. **J Bacteriol** 1997 Feb; 179(3):805–12

Protein–DNA interactions in the ori region of the Mycobacterium fortuitum plasmid pAL5000. Stolt P, et al. **J Bacteriol** 1996 Dec;178(23):6693–700

Rgg is a positive transcriptional regulator of the Streptococcus gordonii gtfG gene. Sulavik MC, et al. **J Bacteriol** 1996 Oct;178(19):5826–30

Generation of an endogenous DNA–methylating agent by nitrosation in Escherichia coli. Taverna P, et al. **J Bacteriol** 1996 Sep;178(17):5105–11

The integration host factor–DNA complex upstream of the early promoter of bacteriophage Mu is functionally symmetric. van Ulsen P, et al. **J Bacteriol** 1997 May; 179(9):3073–5

HupUV proteins of Rhodobacter capsulatus can bind H2: evidence from the H–D exchange reaction. Vignais PM, et al. **J Bacteriol** 1997 Jan;179(1):290–2

Reactivation of the Bacillus subtilis anti–sigma B antagonist, RsbV, by stress– or starvation–induced phosphatase activities. Voelker U, et al. **J Bacteriol** 1996 Sep; 178(18):5456–63

The yeast two–hybrid system detects interactions between Bacillus subtilis sigmaB regulators. Voelker U, et al. **J Bacteriol** 1996 Dec;178(23):7020–3

Stress activation of Bacillus subtilis sigma B can occur in the absence of the sigma B negative regulator RsbX. Voelker U, et al. **J Bacteriol** 1997 Mar;179(6):1980–4

Phosphorylating and dephosphorylating protein complexes in bacterial chemotaxis. Wang H, et al. **J Bacteriol** 1997 Jan;179(1):287–9

Analysis of the interaction of FtsZ with itself, GTP, and FtsA. Wang X, et al. **J Bacteriol** 1997 Sep;179(17):5551–9

Characterization of DinR, the Bacillus subtilis SOS repressor. Winterling KW, et al. **J Bacteriol** 1997 Mar;179(5):1698–703

The Pseudomonas syringae Hrp regulation and secretion system controls the production and secretion of multiple extracellular proteins. Yuan J, et al. **J Bacteriol** 1996 Nov; 178(21):6399–402

A feedback loop regulates the switch from one sigma factor to the next in the cascade controlling Bacillus subtilis mother cell gene expression. Zhang B, et al. **J Bacteriol** 1997 Oct;179(19):6138–44

Bacillus subtilis SpoIIID protein binds to two sites in the spoVD promoter and represses transcription by sigmaE RNA polymerase. Zhang B, et al. **J Bacteriol** 1997 Feb; 179(3):972–5

Binding of a novel host factor to the pT181 plasmid replication enhancer. Zhang Q, et al. **J Bacteriol** 1997 Feb; 179(3):684–8

Identification of a third secondary carrier (DcuC) for anaerobic C4–dicarboxylate transport in Escherichia coli: roles of the three Dcu carriers in uptake and exchange. Zientz E, et al. **J Bacteriol** 1996 Dec;178(24):7241–7

Preparation of general proteinase substrates using 3,5–dinitrosalicylaldehyde. Gallegos NG, et al. **J Biochem Biophys Methods** 1996 Oct 15;33(1):31–41

A new bioluminescent assay for studies of protein G and protein A binding to IgG and IgM. Zatta PF. **J Biochem Biophys Methods** 1996 Apr;32(1):7–13

Purification and characterization of the Proteus vulgaris BlaA protein, the activator of the beta–lactamase gene. Ishiguro K, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):98–103

Contribution of a salt bridge to the thermostability of DNA binding protein HU from Bacillus stearothermophilus determined by site–directed mutagenesis. Kawamura S, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):448–55

Roles of the conserved cytoplasmic region and non–conserved carboxy–terminal region of SecE in Escherichia coli protein translocase. Kontinen VP, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1124–30

GroE assists refolding of recombinant human pro–urokinase. Xu Z, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):331–7

FtsH (HflB) is an ATP–dependent protease selectively acting on SecY and some other membrane proteins. Akiyama Y, et al. **J Biol Chem** 1996 Dec 6;271(49):31196–201

Allosteric mechanism of induction of CytR–regulated gene expression. Cytr repressor–cytidine interaction. Barbier CS, et al. **J Biol Chem** 1997 Jul 4;272(27):16962–71

The trp RNA–binding attenuation protein (TRAP) from Bacillus subtilis binds to unstacked trp leader RNA. Baumann C, et al. **J Biol Chem** 1997 Aug 8;272(32):19863–9

The MutT proteins or "Nudix" hydrolases, a family of versatile, widely distributed, "housecleaning" enzymes. Bessman MJ, et al. **J Biol Chem** 1996 Oct 11; 271(41):25059–62 (47 ref.)

Interaction of MutS protein with the major and minor grooves of a heteroduplex DNA. Biswas I, et al. **J Biol Chem** 1997 May 16;272(20):13355–64

Energetics and mechanism of drug transport mediated by the lactococcal multidrug transporter LmrP. Bolhuis H, et al. **J Biol Chem** 1996 Sep 27;271(39):24123–8

In vitro kinetic studies of formation of antigenic advanced glycation end products (AGEs). Novel inhibition of post–Amadori glycation pathways. Booth AA, et al. **J Biol Chem** 1997 Feb 28;272(9):5430–7

Reconstitution of Monomethylamine:Coenzyme M methyl transfer with a corrinoid protein and two methyltransferases purified from Methanosarcina barkeri. Burke SA, et al. **J Biol Chem** 1997 Jun 27;272(26):16570–7

Effector specificity mutants of the transcriptional activator NahR of naphthalene degrading Pseudomonas define protein sites involved in binding of aromatic inducers. Cebolla A, et al. **J Biol Chem** 1997 Feb 14;272(7):3986–92

The localization of the phosphorylation site of BglG, the response regulator of the Escherichia coli bgl sensory system. Chen Q, et al. **J Biol Chem** 1997 Jul 11; 272(28):17263–8

A significant fraction of functional SecA is permanently embedded in the membrane. SecA cycling on and off the membrane is not essential during protein translocation. Chen X, et al. **J Biol Chem** 1996 Nov 22;271(47):29698–706

Protein phosphorylation affects binding of the Escherichia coli transcription activator UhpA to the uhpT promoter. Dahl JL, et al. **J Biol Chem** 1997 Jan 17;272(3):1910–9

Modulation of the P1 plasmid partition protein ParA by ATP, ADP, and P1 ParB. Davey MJ, et al. **J Biol Chem** 1997 Jun 13;272(24):15286–92

The redox state of the [2Fe–2S] clusters in SoxR protein regulates its activity as a transcription factor. Ding H, et al. **J Biol Chem** 1996 Dec 27;271(52):33173–5

A Ni2+ binding motif is the basis of high affinity transport of the Alcaligenes eutrophus nickel permease. Eitinger T, et al. **J Biol Chem** 1997 Jul 4;272(27):17139–44

Evidence for a ninth gene, ptlI, in the locus encoding the pertussis toxin secretion system of Bordetella pertussis and formation of a PtlI–PtlF complex. Farizo KM, et al. **J Biol Chem** 1996 Dec 6;271(49):31643–9

In vitro characterization of astaxanthin biosynthetic enzymes. Fraser PD, et al. **J Biol Chem** 1997 Mar 7;272(10):6128–35

Regulation of the soxRS oxidative stress regulon. Reversible oxidation of the Fe–S centers of SoxR in vivo. Gaudu P, et al. **J Biol Chem** 1997 Feb 21;272(8):5082–6

Repair of O6–benzylguanine by the Escherichia coli Ada and Ogt and the human O6–alkylguanine–DNA alkyltransferases. Goodtzova K, et al. **J Biol Chem** 1997 Mar 28;272(13):8332–9

Two modes of ligand binding in maltose–binding protein of Escherichia coli. Correlation with the structure of ligands and the structure of binding protein. Hall JA, et al. **J Biol Chem** 1997 Jul 11;272(28):17605–9

Two modes of ligand binding in maltose–binding protein of Escherichia coli. Electron paramagnetic resonance study of ligand–induced global conformational changes by site–directed spin labeling. Hall JA, et al. **J Biol Chem** 1997 Jul 11;272(28):17610–4

Two modes of ligand binding in maltose–binding protein of Escherichia coli. Functional significance in active transport. Hall JA, et al. **J Biol Chem** 1997 Jul 11;

272(28):17615–22

The amino-terminal 118 amino acids of Escherichia coli trigger factor constitute a domain that is necessary and sufficient for binding to ribosomes. Hesterkamp T, et al. **J Biol Chem** 1997 Aug 29;272(35):21865–71

Probing the interactions of putidaredoxin with redox partners in camphor P450 5-monooxygenase by mutagenesis of surface residues. Holden M, et al. **J Biol Chem** 1997 Aug 29;272(35):21720–5

Carboxymethylation of MutS–cysteine–15 specifically inactivates adenosylcobalamin–dependent glutamate mutase. Examination of the role of this residue in coenzyme–binding and catalysis. Holloway DE, et al. **J Biol Chem** 1996 Nov 15;271(46):29121–5

Comparison of the DNA association kinetics of the Lac repressor tetramer, its dimeric mutant LacIadi, and the native dimeric Gal repressor. Hsieh M, et al. **J Biol Chem** 1997 Aug 29;272(35):22092–6

Energetic implications for protein phosphorylation. Conformational stability of HPr variants that mimic phosphorylated forms. Huffine ME, et al. **J Biol Chem** 1996 Nov 15;271(46):28898–902

Evidence for proton transfer from Glu–46 to the chromophore during the photocycle of photoactive yellow protein. Imamoto Y, et al. **J Biol Chem** 1997 May 16; 272(20):12905–8

Uncoupling of ligand–binding affinity of the bacterial serine chemoreceptor from methylation– and temperature–modulated signaling states. Iwama T, et al. **J Biol Chem** 1997 May 23;272(21):13810–5

The inactive pT181 initiator heterodimer, RepC/C, binds but fails to induce melting of the plasmid replication origin. Jin R, et al. **J Biol Chem** 1996 Dec 6;271(49):31086–91

Characterization of Escherichia coli NrdH. A glutaredoxin–like protein with a thioredoxin–like activity profile. Jordan A, et al. **J Biol Chem** 1997 Jul 18; 272(29):18044–50

Role of the heat shock protein DnaJ in the lon–dependent degradation of naturally unstable proteins. Jubete Y, et al. **J Biol Chem** 1996 Nov 29;271(48):30798–803

Purification, reconstitution, and characterization of KdpD, the turgor sensor of Escherichia coli. Jung K, et al. **J Biol Chem** 1997 Apr 18;272(16):10847–52

Excretion and uptake of putrescine by the PotE protein in Escherichia coli. Kashiwagi K, et al. **J Biol Chem** 1997 Mar 7;272(10):6318–23

Role of TrfA and DnaA proteins in origin opening during initiation of DNA replication of the broad host range plasmid RK2. Konieczny I, et al. **J Biol Chem** 1997 Aug 8;272(32):20173–8

Binding of an N–terminal rhodanese peptide to DnaJ and to ribosomes. Kudlicki W, et al. **J Biol Chem** 1996 Dec 6;271(49):31160–5

Protein–protein interaction specificity of Im9 for the endonuclease toxin colicin E9 defined by homologue–scanning mutagenesis. Li W, et al. **J Biol Chem** 1997 Aug 29;272(35):22253–8

Identification, characterization, and molecular cloning of a homologue of the bacterial FtsH protease in chloroplasts of higher plants. Lindahl M, et al. **J Biol Chem** 1996 Nov 15;271(46):29329–34

The RNA molecule CsrB binds to the global regulatory protein CsrA and antagonizes its activity in Escherichia coli. Liu MY, et al. **J Biol Chem** 1997 Jul 11; 272(28):17502–10

Identification of the histidine protein kinase KinB in Pseudomonas aeruginosa and its phosphorylation of the alginate regulator algB. Ma S, et al. **J Biol Chem** 1997 Jul 18;272(29):17952–60

Substrate–binding lipoprotein of the cyanobacterium Synechococcus sp. strain PCC 7942 involved in the transport of nitrate and nitrite. Maeda S, et al. **J Biol Chem** 1997 Jan 31;272(5):3036–41

Rate and equilibrium constants for phosphoryltransfer between active site histidines of Escherichia coli HPr and the signal transducing protein IIIGlc. Meadow ND, et al. **J Biol Chem** 1996 Dec 27;271(52):33440–5

Mutations in the glutathione–gated KefC K+ efflux system of Escherichia coli that cause constitutive activation. Miller S, et al. **J Biol Chem** 1997 Oct 3;272(40):24942–7

Molecular design of inhibitors of in vitro oriC DNA replication based on the potential to block the ATP binding of DnaA protein. Mizushima T, et al. **J Biol Chem** 1996 Oct 11;271(41):25178–83

Recombination–dependent repair of DNA double–strand breaks with purified proteins from Escherichia coli. Morel P, et al. **J Biol Chem** 1997 Jul 4;272(27):17091–6

Multiple specific CytR binding sites at the Escherichia coli deoP2 promoter mediate both cooperative and competitive interactions between CytR and cAMP receptor protein. Perini LT, et al. **J Biol Chem** 1996 Dec 27;271(52):33242–55

Separable ATPase and membrane insertion domains of the SecA subunit of preprotein translocase. Price A, et al. **J Biol Chem** 1996 Dec 6;271(49):31580–4

Characterization of truncated forms of the KdpD protein, the sensor kinase of the K+–translocating Kdp system of Escherichia coli. Puppe W, et al. **J Biol Chem** 1996 Oct 4;271(40):25027–34

Mutations at domain II, loop 3, of Bacillus thuringiensis CryIAa and CryIAb delta–endotoxins suggest loop 3 is involved in initial binding to lepidopteran midguts. Rajamohan F, et al. **J Biol Chem** 1996 Oct 11; 271(41):25220–6

Interaction of Escherichia coli RecA protein with LexA repressor. I. LexA repressor cleavage is competitive with binding of a secondary DNA molecule. Rehrauer WM, et al. **J Biol Chem** 1996 Sep 27;271(39):23865–73

Leucine–responsive regulatory protein–DNA interactions in the leader region of the ilvGMEDA operon of Escherichia coli. Rhee KY, et al. **J Biol Chem** 1996 Oct 25; 271(43):26499–507

A region of the Yersinia pseudotuberculosis invasin protein that contributes to high affinity binding to integrin receptors. Saltman LH, et al. **J Biol Chem** 1996 Sep 20; 271(38):23438–44

Cooperative binding of DctD to the dctA upstream activation sequence of Rhizobium meliloti is enhanced in a constitutively active truncated mutant. Scholl D, et al. **J Biol Chem** 1996 Oct 18;271(42):26435–42

FtsY, the prokaryotic signal recognition particle receptor homologue, is essential for biogenesis of membrane proteins. Seluanov A, et al. **J Biol Chem** 1997 Jan 24; 272(4):2053–5

Analysis of substrate specificity of the RuvC holliday junction resolvase with synthetic Holliday junctions. Shida T, et al. **J Biol Chem** 1996 Oct 18;271(42):26105–9

The Listeria monocytogenes–secreted p60 protein is an N–end rule substrate in the cytosol of infected cells. Implications for major histocompatibility complex class I antigen processing of bacterial proteins. Sijts AJ, et al. **J Biol Chem** 1997 Aug 1;272(31):19261–8

HtrA heat shock protease interacts with phospholipid membranes and undergoes conformational changes. Skórko–Glonek J, et al. **J Biol Chem** 1997 Apr 4; 272(14):8974–82

Identification of a region of interaction between Escherichia coli SecA and SecY proteins. Snyders S, et al. **J Biol Chem** 1997 Apr 25;272(17):11302–6

CopY is a copper–inducible repressor of the Enterococcus hirae copper ATPases. Strausak D, et al. **J Biol Chem** 1997 Apr 4;272(14):8932–6

Threonine 435 of Escherichia coli DnaA protein confers sequence–specific DNA binding activity. Sutton MD, et al. **J Biol Chem** 1997 Sep 12;272(37):23017–24

Carbohydrate binding specificity of the neutrophil–activating protein of Helicobacter pylori. Teneberg S, et al. **J Biol Chem** 1997 Jul 25;272(30):19067–71

Multiple phosphorylation of SacY, a Bacillus subtilis transcriptional antiterminator negatively controlled by the phosphotransferase system. Tortosa P, et al. **J Biol Chem** 1997 Jul 4;272(27):17230–7

Central role of the BvgS receiver as a phosphorylated intermediate in a complex two–component phosphorelay. Uhl MA, et al. **J Biol Chem** 1996 Dec 27;271(52):33176–80

Rhizobium leguminosarum bv. trifolii produces lipo–chitin oligosaccharides with nodE–dependent highly unsaturated fatty acyl moieties. An electrospray ionization and collision–induced dissociation tandem mass spectrometric study. van der Drift KM, et al. **J Biol Chem** 1996 Sep 13;271(37):22563–9

ATP–dependent degradation of CcdA by Lon protease. Effects of secondary structure and heterologous subunit interactions. Van Melderen L, et al. **J Biol Chem** 1996 Nov 1;271(44):27730–8

Characterization of the bacterial sensor protein PhoQ. Evidence for distinct binding sites for Mg2+ and Ca2+ Véscovi EG, et al. **J Biol Chem** 1997 Jan 17;272(3):1440–3

NusA is required for ribosomal antitermination and for modulation of the transcription elongation rate of both antiterminated RNA and mRNA. Vogel U, et al. **J Biol Chem** 1997 May 9;272(19):12265–71

Signal detection by the PhoQ sensor–transmitter. Characterization of the sensor domain and a response–impaired mutant that identifies ligand–binding determinants. Waldburger CD, et al. **J Biol Chem** 1996 Oct 25;271(43):26630–6

Escherichia coli preprotein translocase. Wickner W, et al. **J Biol Chem** 1996 Nov 22;271(47):29514–6 (68 ref.)

Efflux of the natural polyamine spermidine facilitated by the Bacillus subtilis multidrug transporter Blt. Woolridge DP, et al. **J Biol Chem** 1997 Apr 4;272(14):8864–6

SecE–depleted membranes of Escherichia coli are active. SecE is not obligatorily required for the in vitro translocation of certain protein precursors. Yang YB, et al. **J Biol Chem** 1997 May 23;272(21):13660–5

The CheZ–binding surface of CheY overlaps the CheA– and FliM–binding surfaces. Zhu X, et al. **J Biol Chem** 1997 Sep 19;272(38):23758–64

Recognition of promoter DNA by subdomain 4.2 of Escherichia coli sigma 70: a knowledge based model of –35 hexamer interaction with 4.2 helix–turn–helix motif. Reddy BV, et al. **J Biomol Struct Dyn** 1997 Feb; 14(4):407–19

HMG box proteins interact with multiple tandemly repeated (GCC)n (GGC)m DNA sequences. Zhao Y, et al. **J Biomol Struct Dyn** 1996 Oct;14(2):235–8

ADPribosylation reaction by free ADPribose in Sulfolobus solfataricus, a thermophilic archaeon. Faraone–Mennella MR, et al. **J Cell Biochem** 1997 Jul 1;66(1):37–42

Acid–induced dissociation of VacA, the Helicobacter pylori vacuolating cytotoxin, reveals its pattern of assembly. Cover TL, et al. **J Cell Biol** 1997 Aug 25;138(4):759–69

Vinculin proteolysis unmasks an ActA homolog for actin–based Shigella motility. Laine RO, et al. **J Cell Biol** 1997 Sep 22;138(6):1255–64

Proteolytic pathways of activation and degradation of a bacterial phospholipase C during intracellular infection by Listeria monocytogenes. Marquis H, et al. **J Cell Biol** 1997 Jun 16;137(6):1381–92

Sorting by COP I–coated vesicles under interphase and mitotic conditions. Sönnichsen B, et al. **J Cell Biol** 1996 Sep;134(6):1411–25

Structural and functional similarities between the human cytoskeletal protein zyxin and the ActA protein of Listeria monocytogenes. Golsteyn RM, et al. **J Cell Sci** 1997 Aug; 110 (Pt 16):1893–906

Production of sodium azide inactivating substance by resistant mutants of Salmonella typhimurium and other bacteria. Banic S. **J Chemother** 1996 Dec;8(6):432–7

Surprise? Bacteria glycosylate proteins too [editorial; comment] Tuomanen EI. **J Clin Invest** 1996 Dec 15; 98(12):2659–60. Comment on: J Clin Invest 1996 Dec 15;98(12):2813–8.

Activation and novel processing of matrix metalloproteinases by a thiol–proteinase from the oral anaerobe Porphyromonas gingivalis. DeCarlo AA Jr, et al. **J Dent Res** 1997 Jun;76(6):1260–70

Cytotoxin and urease activities of Helicobacter pylori isolates from Japanese patients with atrophic gastritis or duodenal ulcer. Murakita H, et al. **J Gastroenterol Hepatol** 1996 Sep; 11(9):819–24

A highly variable region in members of the streptococcal M protein family binds the human complement regulator C4BP. Johnsson E, et al. **J Immunol** 1996 Oct 1; 157(7):3021–9

Interactions of Bacillus thuringiensis crystal proteins with the midgut epithelial cells of Spodoptera frugiperda (Lepidoptera: Noctuidae). Aranda E, et al. **J Invertebr Pathol** 1996 Nov;68(3):203–12

Chitinase activity of Xenorhabdus and Photorhabdus species, bacterial associates of entomopathogenic nematodes. Chen G, et al. **J Invertebr Pathol** 1996 Sep;68(2):101–8

Bypass of DNA heterologies during RuvAB–mediated three– and four–strand branch migration. Adams DE, et al. **J Mol Biol** 1996 Nov 8;263(4):582–96

Sequence–dependent modulation of nucleotide excision repair: the efficiency of the incision reaction is inversely correlated with the stability of the pre–incision UvrB–DNA complex. Delagoutte E, et al. **J Mol Biol** 1997 Mar 7;266(4):703–10

NMR analysis of the interaction between protein L and Ig light chains. Enokizono J, et al. **J Mol Biol** 1997 Jul 4; 270(1):8–13

GroE modulates kinetic partitioning of folding intermediates between alternative states to maximize the yield of biologically active protein. Fedorov AN, et al. **J Mol Biol** 1997 May 16;268(4):712–23

Thermodynamics of the interactions of lac repressor with variants of the symmetric lac operator: effects of converting a consensus site to a non–specific site. Frank DE, et al. **J Mol Biol** 1997 Apr 18;267(5):1186–206

Annealing of complementary DNA strands above the melting point of the duplex promoted by an archaeal protein. Guagliardi A, et al. **J Mol Biol** 1997 Apr 11;267(4):841–8

The mobilization protein, MobM, of the streptococcal plasmid pMV158 specifically cleaves supercoiled DNA at the plasmid oriT. Guzmán LM, et al. **J Mol Biol** 1997 Mar 7;266(4):688–702

Escherichia coli lac repressor–lac operator interaction and the influence of allosteric effectors. Horton N, et al. **J Mol Biol** 1997 Jan 10;265(1):1–7

Partitioning of plasmid R1. The ParM protein exhibits ATPase activity and interacts with the centromere–like ParR–parC complex. Jensen RB, et al. **J Mol Biol** 1997 Jun 20;269(4):505–13

Transphosphorylation of the TorR response regulator requires the three phosphorylation sites of the TorS unorthodox sensor in Escherichia coli. Jourlin C, et al. **J Mol Biol** 1997 Apr 11;267(4):770–7

A thioreduction pathway tethered to the membrane for periplasmic cytochromes c biogenesis; in vitro and in vivo studies. Monika EM, et al. **J Mol Biol** 1997 Sep 5; 271(5):679–92

Initiation of replication of plasmid pMV158: mechanisms of DNA strand–transfer reactions mediated by the initiator RepB protein. Moscoso M, et al. **J Mol Biol** 1997 May 23;268(5):840–56

The nuiA gene from Anabaena sp. encoding an inhibitor of the NucA sugar–non–specific nuclease. Muro–Pastor AM, et al. **J Mol Biol** 1997 May 9;268(3):589–98

The power stroke of the DnaK/DnaJ/GrpE molecular chaperone system. Pierpaoli EV, et al. **J Mol Biol** 1997 Jun 27;269(5):757–68

Identification of elements on GeneX–secA RNA of Escherichia coli required for SecA binding and secA auto–regulation. Salavati R, et al. **J Mol Biol** 1997 Jan 17; 265(2):142–52

The role of Glu73 of barnase in catalysis and the binding of barstar. Schreiber G, et al. **J Mol Biol** 1997 Jul 4; 270(1):111–22

RecA protein filaments: end–dependent dissociation from ssDNA and stabilization by RecO and RecR proteins. Shan Q, et al. **J Mol Biol** 1997 Feb 7;265(5):519–40

Molecular recognition in signal transduction: the interaction surfaces of the Spo0F response regulator with its cognate phosphorelay proteins revealed by alanine scanning

mutagenesis. Tzeng YL, et al. **J Mol Biol** 1997 Sep 19; 272(2):200–12

The RecG branch migration protein of Escherichia coli dissociates R-loops. Vincent SD, et al. **J Mol Biol** 1996 Dec 13;264(4):713–21

Interactions between RuvA and RuvC at Holliday junctions: inhibition of junction cleavage and formation of a RuvA–RuvC–DNA complex. Whitby MC, et al. **J Mol Biol** 1996 Dec 20;264(5):878–90

Activation of RpoS-dependent proP P2 transcription by the Fis protein in vitro. Xu J, et al. **J Mol Biol** 1997 Jul 18; 270(3):346–59

Alanine-scanning mutagenesis of Bacillus subtilis trp RNA-binding attenuation protein (TRAP) reveals residues involved in tryptophan binding and RNA binding. Yang M, et al. **J Mol Biol** 1997 Aug 1;270(5):696–710

Effect of DNA topology on Holliday junction resolution by Escherichia coli RuvC and bacteriophage T7 endonuclease I. Zerbib D, et al. **J Mol Biol** 1997 Aug 1;270(5):663–73

Lac repressor–operator interaction: N–terminal peptide backbone 1H and 15N chemical shifts upon complex formation with DNA. Artz PG, et al. **J Mol Recognit** 1996 Jan–Feb;9(1):13–22

Metabolic engineering of a non–allosteric citrate synthase in an Escherichia coli citrate synthase mutant. Evans CT. **J Mol Recognit** 1995 Nov–Dec;8(6):327–33

Binding of Escherichia coli LexA repressor to the RecA operator. Shaner SL, et al. **J Mol Recognit** 1996 Sep–Dec; 9(5–6):468–73

Cerebrolysin protects neurons from ischemia–induced loss of microtubule–-associated protein 2. Hutter–Paier B, et al. **J Neural Transm Suppl** 1996;47:276

Identification of avidin and streptavidin binding motifs among peptides selected from a synthetic peptide library consisting solely of D–amino acids. Gissel B, et al. **J Pept Sci** 1995 Jul–Aug;1(4):217–26

Exocellular phospholipase C activity from a Propionibacterium acnes strain isolated from a periodontal pocket. Bulkacz J, et al. **J Periodontol** 1997 Apr; 68(4):369–74

Porphyromonas gingivalis reduces mitogenic and chemotactic responses of human periodontal ligament cells to platelet–derived growth factor in vitro. Matsuda N, et al. **J Periodontol** 1996 Dec;67(12):1335–41

Heme binding by a bacterial repressor protein, the gene product of the ferric uptake regulation (fur) gene of Escherichia coli. Smith A, et al. **J Protein Chem** 1996 Aug; 15(6):575–83

In vitro interactions of the aphid endosymbiotic SymL chaperonin with barley yellow dwarf virus. Filichkin SA, et al. **J Virol** 1997 Jan;71(1):569–77

Decreased renal accumulation of biotinylated chimeric monoclonal antibody–neocarzinostatin conjugate after administration of avidin. Otsuji E, et al. **Jpn J Cancer Res** 1997 Feb;88(2):205–12

Synthesis, maturation and export of the E. coli hemolysin. Koronakis V, et al. **Med Microbiol Immunol (Berl)** 1996 Sep;185(2):65–71 (55 ref.)

Mixed lipid–protein films of bacterial photosynthetic reaction centres. II. Mixed multilayers on solid supports. Kalabina NA, et al. **Membr Cell Biol** 1997;10(5):535–41

Transcription activation by histone–like protein integration host factor. Goosen N, et al. **Methods Enzymol** 1996; 274:32–43

Bacteriophage T4 middle transcription system: T4–modified RNA polymerase; AsiA, a sigma 70 binding protein; and transcriptional activator MotA. Hinton DM, et al. **Methods Enzymol** 1996;274:43–57

Quantitative parameters for promoter clearance. Hsu LM. **Methods Enzymol** 1996;273:59–71 (30 ref.)

Biosynthesis of lipoic acid and posttranslational modification with lipoic acid in Escherichia coli. Jordan SW, et al. **Methods Enzymol** 1997;279:176–83 (19 ref.)

In vitro assay for reiterative transcription during transcriptional initiation by Escherichia coli RNA polymerase. Qi F, et al. **Methods Enzymol** 1996;273:71–85 (18 ref.)

Periplasm, periplasmic spaces, and their relation to bacterial wall structure: novel secretion of selected periplasmic proteins from Pseudomonas aeruginosa. Beveridge TJ, et al. **Microb Drug Resist** 1996 Spring;2(1):1–8 (43 ref.)

Overall protein content and induced enzyme components of the periplasm of Bacillus subtilis. Pooley HM, et al. **Microb Drug Resist** 1996 Spring;2(1):9–15 (43 ref.)

How does FtsZ find its location? Voskuil JL, et al. **Microb Drug Resist** 1996 Spring;2(1):55–61

Effect of deoxymannojirimycin and Brefeldin A on Yersinia pseudotuberculosis invasin–-eukaryotic cell interaction. Frankel G, et al. **Microb Pathog** 1995 Dec;19(6):421–7

Shot–gun phage display mapping of two streptococcal cell–surface proteins. Jacobsson K, et al. **Microbiol Res** 1997 Jul;152(2):121–8

The soybean cultivar specificity gene nolX is present, expressed in a nodD–dependent manner, and of symbiotic significance in cultivar–nonspecific strains of Rhizobium (Sinorhizobium) fredii. Bellato C, et al. **Microbiology** 1997 Apr;143 (Pt 4):1381–8

Surface location of HPr, a phosphocarrier of the phosphoenolpyruvate: sugar phosphotransferase system in Streptococcus suis. Dubreuil JD, et al. **Microbiology** 1996 Apr;142 (Pt 4):837–43

Expression of the Bacillus subtilis spoIVB gene is under dual sigma F/sigma G control. Gomez M, et al. **Microbiology** 1996 Dec;142 (Pt 12):3453–7

Efficient secretion of the model antigen M6–gp41E in Lactobacillus plantarum NCIMB 8826. Hols P, et al. **Microbiology** 1997 Aug;143 (Pt 8):2733–41

Localization of enzymically enhanced heavy metal accumulation by Citrobacter sp. and metal accumulation in vitro by liposomes containing entrapped enzyme. Jeong BC, et al. **Microbiology** 1997 Jul;143 (Pt 7):2497–507

The outer membrane of lipid A–deficient Escherichia coli mutant LH530 has reduced levels of OmpF and leaks periplasmic enzymes. Nurminen M, et al. **Microbiology** 1997 May;143 (Pt 5):1533–7

Increased pyruvate orthophosphate dikinase activity results in an alternative gluconeogenic pathway in Rhizobium (Sinorhizobium) meliloti. Osterås M, et al. **Microbiology** 1997 May;143 (Pt 5):1639–48

Regulation of exopolysaccharide production in Rhizobium leguminosarum biovar viciae WSM710 involves exoR. Reeve WG, et al. **Microbiology** 1997 Jun;143 (Pt 6):1951–8

The Azotobacter vinelandii gene algJ encodes an outer–membrane protein presumably involved in export of alginate. Rehm BH. **Microbiology** 1996 Apr;142 (Pt 4):873–80

Immunochemical localization of CAMP factor (protein B) in Streptococcus agalactiae. Takaisi–Kikuni NB, et al. **Microbios** 1997;89(360–361):171–85

Transcriptional activation and transformation by FosB protein require phosphorylation of the carboxyl–terminal activation domain. Skinner M, et al. **Mol Cell Biol** 1997 May;17(5):2372–80

Escherichia coli DnaA protein: the replication initiator. Kaguni JM. **Mol Cells** 1997 Apr 30;7(2):145–57 (206 ref.)

Analysis of novel streptavidin–binding peptides, identified using a phage display library, shows that amino acids external to a perfectly conserved consensus sequence and to the presented peptides contribute to binding. Caparon MH, et al. **Mol Divers** 1996 Aug;1(4):241–6

The regulatory protein MucR binds to a short DNA region located upstream of the mucR coding region in Rhizobium meliloti. Bertram–Drogatz PA, et al. **Mol Gen Genet** 1997 May 20;254(5):529–38

Genetic evidence of a coupling role for the TraG protein family in bacterial conjugation. Cabezón E, et al. **Mol Gen Genet** 1997 Apr 28;254(4):400–6

Functional dissection of a cell–division inhibitor, SulA, of Escherichia coli and its negative regulation by Lon. Higashitani A, et al. **Mol Gen Genet** 1997 Apr 28; 254(4):351–7

The localized melting of mini–F origin by the combined action of the mini–F initiator protein (RepE) and HU and DnaA of Escherichia coli. Kawasaki Y, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):42–9

Effects of mutations in genes for proteins involved in disulphide bond formation in the periplasm on the activities of anaerobically induced electron transfer chains in Escherichia coli K12. Metheringham R, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):95–102

Bacillus subtilis ComK negatively regulates degR gene expression. Ogura M, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):157–65

HU protein binding to the replication origin of the rolling–circle plasmid pKYM enhances DNA replication. Yasukawa H, et al. **Mol Gen Genet** 1997 May 20; 254(5):548–54

Modulator protein RsbR regulates environmental signalling in the general stress pathway of Bacillus subtilis. Akbar S, et al. **Mol Microbiol** 1997 May;24(3):567–78

Methylation segments are not required for chemotactic signalling by cytoplasmic fragments of Tsr, the methyl–accepting serine chemoreceptor of Escherichia coli. Ames P, et al. **Mol Microbiol** 1996 Feb;19(4):737–46

RecR is a zinc metalloprotein from Bacillus subtilis 168. Ayora S, et al. **Mol Microbiol** 1997 Feb;23(4):639–47

Identification and characterization of AlgZ, an AlgT–dependent DNA–binding protein required for Pseudomonas aeruginosa algD transcription. Baynham PJ, et al. **Mol Microbiol** 1996 Oct;22(1):97–108

Pheromone cCF10 and plasmid pCF10–encoded regulatory molecules act post–transcriptionally to activate expression of downstream conjugation functions. Bensing BA, et al. **Mol Microbiol** 1997 Apr;24(2):285–94

Pheromone–inducible expression of an aggregation protein in Enterococcus faecalis requires interaction of a plasmid–encoded RNA with components of the ribosome. Bensing BA, et al. **Mol Microbiol** 1997 Apr;24(2):295–308

Specific binding of the Listeria monocytogenes transcriptional regulator PrfA to target sequences requires additional factor(s) and is influenced by iron. Böckmann R, et al. **Mol Microbiol** 1996 Nov;22(4):643–53

Autoregulation of luxR: the Vibrio harveyi lux–operon activator functions as a repressor. Chatterjee J, et al. **Mol Microbiol** 1996 Apr;20(2):415–25

The AngR protein and the siderophore anguibactin positively regulate the expression of iron–transport genes in Vibrio anguillarum. Chen Q, et al. **Mol Microbiol** 1996 Oct; 22(1):127–34

DNA binding of Escherichia coli arginine repressor mutants altered in oligomeric state. Chen SH, et al. **Mol Microbiol** 1997 Jun;24(6):1143–56

'Locked–on' and 'locked–off' signal transduction mutations in the periplasmic domain of the Escherichia coli NarQ and NarX sensors affect nitrate– and nitrite–dependent regulation by NarL and NarP. Chiang RC, et al. **Mol Microbiol** 1997 Jun;24(5):1049–60

A novel DnaJ–like protein in Escherichia coli inserts into the cytoplasmic membrane with a type III topology. Clarke DJ, et al. **Mol Microbiol** 1996 Jun;20(6):1273–86

Expression of the tolQRA genes of Escherichia coli K–12 is controlled by the RcsC sensor protein involved in capsule synthesis. Clavel T, et al. **Mol Microbiol** 1996 Jan; 19(1):19–25

The invasion–associated type III system of Salmonella typhimurium directs the translocation of Sip proteins into the host cell. Collazo CM, et al. **Mol Microbiol** 1997 May; 24(4):747–56

In vitro characterization of constitutive CysB proteins from Salmonella typhimurium. Colyer TE, et al. **Mol Microbiol** 1996 Jul;21(2):247–56

The vacuolating cytotoxin of Helicobacter pylori. Cover TL. **Mol Microbiol** 1996 Apr;20(2):241–6 (41 ref.)

Analysis of nitrate regulatory protein NarL–binding sites in the fdnG and narG operon control regions of Escherichia coli K–12. Darwin AJ, et al. **Mol Microbiol** 1996 May; 20(3):621–32

Differential regulation by the homologous response regulators NarL and NarP of Escherichia coli K–12 depends on DNA binding site arrangement. Darwin AJ, et al. **Mol Microbiol** 1997 Aug;25(3):583–95

Structural and functional analysis of aa3–type and cbb3–type cytochrome c oxidases of Paracoccus denitrificans reveals significant differences in proton–pump design. de Gier JW, et al. **Mol Microbiol** 1996 Jun;20(6):1247–60

Examination of AsmA and its effect on the assembly of Escherichia coli outer membrane proteins. Deng M, et al. **Mol Microbiol** 1996 Aug;21(3):605–12

PilP, a pilus biogenesis lipoprotein in Neisseria gonorrhoeae, affects expression of PilQ as a high–molecular–mass multimer. Drake SL, et al. **Mol Microbiol** 1997 Feb; 23(4):657–68

SopA, the outer membrane protease responsible for polar localization of IcsA in Shigella flexneri. Egile C, et al. **Mol Microbiol** 1997 Mar;23(5):1063–73

Effector–induced self–association and conformational changes in the enhancer–binding protein NTRC. Farez–Vidal ME, et al. **Mol Microbiol** 1996 Dec; 22(5):779–88

Role of nodI and nodJ in lipo–chitooligosaccharide secretion in Azorhizobium caulinodans and Escherichia coli. Fernández–López M, et al. **Mol Microbiol** 1996 Jun; 20(5):993–1000

Expression of the Bacillus subtilis gabP gene is regulated independently in response to nitrogen and amino acid availability. Ferson AE, et al. **Mol Microbiol** 1996 Nov; 22(4):693–701

Interaction of FimB and FimE with the fim switch that controls the phase variation of type 1 fimbriae in Escherichia coli K–12. Gally DL, et al. **Mol Microbiol** 1996 Aug;21(4):725–38

A dual role for the Bacillus subtilis glpD leader and the GlpP protein in the regulated expression of glpD: antitermination and control of mRNA stability. Glatz E, et al. **Mol Microbiol** 1996 Jan;19(2):319–28

FIS is a regulator of metabolism in Escherichia coli. González–Gil G, et al. **Mol Microbiol** 1996 Oct;22(1):21–9

HlyX, the FNR homologue of Actinobacillus pleuropneumoniae, is a [4Fe–4S]–containing oxygen–responsive transcription regulator that anaerobically activates FNR–dependent class I promoters via an enhanced AR1 contact. Green J, et al. **Mol Microbiol** 1997 May;24(3):593–605

Studies of the repressor (BlaI) of beta–lactamase synthesis in Staphylococcus aureus. Gregory PD, et al. **Mol Microbiol** 1997 Jun;24(5):1025–37

Accessory proteins impose site selectivity during ColE1 dimer resolution. Guhathakurta A, et al. **Mol Microbiol** 1996 May;20(3):613–20

Co–operative binding of two Trp repressor dimers to alpha– or beta–centred trp operators. Günes C, et al. **Mol Microbiol** 1996 Apr;20(2):375–84

Regulated expression of the dinR and recA genes during competence development and SOS induction in Bacillus subtilis. Haijema BJ, et al. **Mol Microbiol** 1996 Oct; 22(1):75–85

The secretin–specific, chaperone–like protein of the general secretory pathway: separation of proteolytic protection and piloting functions. Hardie KR, et al. **Mol Microbiol** 1996 Dec;22(5):967–76

Evidence for autolysin–mediated primary attachment of Staphylococcus epidermidis to a polystyrene surface. Heilmann C, et al. **Mol Microbiol** 1997 Jun;24(5):1013–24

Back to log phase: sigma S as a global regulator in the osmotic control of gene expression in Escherichia coli. Hengge–Aronis R. **Mol Microbiol** 1996 Sep;21(5):887–93 (65 ref.)

The initiation mess? Herrick J, et al. **Mol Microbiol** 1996 Feb;19(4):659–66 (40 ref.)

Integration host factor is a transcriptional cofactor of pilE in Neisseria gonorrhoeae. Hill SA, et al. **Mol Microbiol** 1997 Feb;23(4):649–56

Mode of promoter recognition by the Escherichia coli RNA polymerase holoenzyme containing the sigma S subunit: identification of the recognition sequence of the fic promoter. Hiratsu K, et al. **Mol Microbiol** 1995 Dec;

18(5):841–50

A TonB-like protein and a novel membrane protein containing an ATP-binding cassette function together in exotoxin secretion. Howard SP, et al. **Mol Microbiol** 1996 Nov;22(4):595–604

Protein F2, a novel fibronectin-binding protein from Streptococcus pyogenes, possesses two binding domains. Jaffe J, et al. **Mol Microbiol** 1996 Jul;21(2):373–84

RbfA, a 30S ribosomal binding factor, is a cold-shock protein whose absence triggers the cold-shock response. Jones PG, et al. **Mol Microbiol** 1996 Sep;21(6):1207–18

Conversion of an extracellular cytolysin into a phagosome-specific lysin which supports the growth of an intracellular pathogen. Jones S, et al. **Mol Microbiol** 1996 Sep;21(6):1219–25

PspF and IHF bind co-operatively in the psp promoter-regulatory region of Escherichia coli. Jovanovic G, et al. **Mol Microbiol** 1997 Aug;25(3):473–81

Phosphorylation-dependent binding of BvgA to the upstream region of the cyaA gene of Bordetella pertussis. Karimova G, et al. **Mol Microbiol** 1996 May;20(3):489–96

Characterization of Escherichia coli DnaAcos protein in replication systems reconstituted with highly purified proteins. Katayama T, et al. **Mol Microbiol** 1995 Dec; 18(5):813–20

Two-stage regulation of an anti-sigma factor determines developmental fate during bacterial endospore formation. Kellner EM, et al. **Mol Microbiol** 1996 Sep;21(5):913–24

Involvement of the sensor kinase EnvZ in the in vivo activation of the response-regulator PhoB by acetyl phosphate. Kim SK, et al. **Mol Microbiol** 1996 Oct; 22(1):135–47

Quorum sensing by peptide pheromones and two-component signal-transduction systems in Gram-positive bacteria. Kleerebezem M, et al. **Mol Microbiol** 1997 Jun; 24(5):895–904 (38 ref.)

Dual regulation of the paraquat-inducible gene pqi-5 by SoxS and RpoS in Escherichia coli. Koh YS, et al. **Mol Microbiol** 1996 Oct;22(1):53–61

A conserved helicase motif of the AddA subunit of the Bacillus subtilis ATP-dependent nuclease (AddAB) is essential for DNA repair and recombination. Kooistra J, et al. **Mol Microbiol** 1997 Jan;23(1):137–49

The TraB protein, which mediates the intermycelial transfer of the Streptomyces plasmid pSN22, has functional NTP-binding motifs and is localized to the cytoplasmic membrane. Kosoño S, et al. **Mol Microbiol** 1996 Jan; 19(2):397–405

The leucine-responsive regulatory protein (Lrp) acts as a specific repressor for sigma s-dependent transcription of the Escherichia coli aidB gene. Landini P, et al. **Mol Microbiol** 1996 Jun;20(5):947–55

Internalin must be on the bacterial surface to mediate entry of Listeria monocytogenes into epithelial cells. Lebrun M, et al. **Mol Microbiol** 1996 Aug;21(3):579–92

TonB protein appears to transduce energy by shuttling between the cytoplasmic membrane and the outer membrane in Escherichia coli. Letain TE, et al. **Mol Microbiol** 1997 Apr;24(2):271–83

Sequence specificity for DNA binding by Escherichia coli SoxS and Rob proteins. Li Z, et al. **Mol Microbiol** 1996 Jun;20(5):937–45

Complementation of deletion mutations in a cloned functional cluster of Erwinia chrysanthemi out genes with Erwinia carotovora out homologues reveals OutC and OutD as candidate gatekeepers of species-specific secretion of proteins via the type II pathway. Lindeberg M, et al. **Mol Microbiol** 1996 Apr;20(1):175–90

RecA relieves negative autoregulation of rdgA, which specifies a component of the RecA-Rdg regulatory circuit controlling pectin lyase production in Erwinia carotovora ssp. carotovora. Liu Y, et al. **Mol Microbiol** 1996 Dec; 22(5):909–18

Polynucleotide phosphorylase is necessary for competence development in Bacillus subtilis. Luttinger A, et al. **Mol Microbiol** 1996 Jan;19(2):343–56

Ffh and FtsY in a Mycoplasma mycoides signal-recognition particle pathway: SRP RNA and M domain of Ffh are not required for stimulation of GTPase activity in vitro. Macao B, et al. **Mol Microbiol** 1997 May;24(3):523–34

The activation of PhoB by acetylphosphate. McCleary WR. **Mol Microbiol** 1996 Jun;20(6):1155–63

Establishing differential gene expression in sporulating Bacillus subtilis: phosphorylation of SpoIIAA (anti-anti-sigmaF) alters its conformation and prevents formation of a SpoIIAA/SpoIIAB/ADP complex. Magnin T, et al. **Mol Microbiol** 1996 Feb;19(4):901–7

The GalF protein of Escherichia coli is not a UDP-glucose pyrophosphorylase but interacts with the GalU protein possibly to regulate cellular levels of UDP-glucose. Marolda CL, et al. **Mol Microbiol** 1996 Dec;22(5):827–40

Comparative analysis of the virulence control systems of Bordetella pertussis and Bordetella bronchiseptica. Martínez de Tejada G, et al. **Mol Microbiol** 1996 Dec; 22(5):895–908

DnaA initiator—also a transcription factor. Messer W, et al. **Mol Microbiol** 1997 Apr;24(1):1–6 (68 ref.)

In vitro processing activity of Bacillus subtilis polynucleotide phosphorylase. Mitra S, et al. **Mol Microbiol** 1996 Jan; 19(2):329–42

Definition of a consensus DNA-binding site for the Escherichia coli pleiotropic regulatory protein, FruR. Nègre D, et al. **Mol Microbiol** 1996 Jul;21(2):257–66

An oligopeptide permease responsible for the import of an extracellular signal governing aerial mycelium formation in Streptomyces coelicolor. Nodwell JR, et al. **Mol Microbiol** 1996 Dec;22(5):881–93

Dependency of Escherichia coli cell-division size, and independency of nucleoid segregation on the mode and level of ftsZ expression. Palacios P, et al. **Mol Microbiol** 1996 Jun;20(5):1093–8

Dramatic decay of phage transcripts in lactococcal cells carrying the abortive infection determinant AbiB. Parreira R, et al. **Mol Microbiol** 1996 Jan;19(2):221–30

Purification of recombinant Chlamydia trachomatis histone H1-like protein Hc2, and comparative functional analysis of Hc2 and Hc1. Pedersen LB, et al. **Mol Microbiol** 1996 Apr;20(2):295–311

Multimers of the precursor of a type IV pilin-like component of the general secretory pathway are unrelated to pili. Pugsley AP. **Mol Microbiol** 1996 Jun;20(6):1235–45

Integration of SecA protein into the Escherichia coli inner membrane is regulated by its amino-terminal ATP-binding domain. Rajapandi T, et al. **Mol Microbiol** 1996 Apr; 20(1):43–51

Chlamydia psittaci IncA is phosphorylated by the host cell and is exposed on the cytoplasmic face of the developing inclusion. Rockey DD, et al. **Mol Microbiol** 1997 Apr; 24(1):217–28

CheC and CheD interact to regulate methylation of Bacillus subtilis methyl-accepting chemotaxis proteins. Rosario MM, et al. **Mol Microbiol** 1996 Aug;21(3):511–8

DivIB, FtsZ and cell division in Bacillus subtilis. Rowland SL, et al. **Mol Microbiol** 1997 Jan;23(2):295–302

Assembly proteins of CS1 pili of enterotoxigenic Escherichia coli. Sakellaris H, et al. **Mol Microbiol** 1996 Aug; 21(3):529–41

Transcriptional activation by FNR and CRP: reciprocity of binding-site recognition. Sawers G, et al. **Mol Microbiol** 1997 Feb;23(4):835–45

Interaction of CodY, a novel Bacillus subtilis DNA-binding protein, with the dpp promoter region. Serror P, et al. **Mol Microbiol** 1996 May;20(4):843–52

The nucleoside diphosphate kinase of Mycobacterium smegmatis: identification of proteins that modulate specificity of nucleoside triphosphate synthesis by the enzyme. Shankar S, et al. **Mol Microbiol** 1997 May; 24(3):477–87

Disruption of IcsP, the major Shigella protease that cleaves IcsA, accelerates actin-based motility. Shere KD, et al. **Mol Microbiol** 1997 Aug;25(3):451–62

Identification of a bacterial pectin acetyl esterase in Erwinia chrysanthemi 3937. Shevchik VE, et al. **Mol Microbiol** 1997 Jun;24(6):1285–301

Proteolysis of the phage lambda CII regulatory protein by FtsH (HflB) of Escherichia coli. Shotland Y, et al. **Mol Microbiol** 1997 Jun;24(6):1303–10

Independent interaction of the acyltransferase HlyC with two maturation domains of the Escherichia coli toxin HlyA. Stanley P, et al. **Mol Microbiol** 1996 May;20(4):813–22

The RpoN-box motif of the RNA polymerase sigma factor sigma N plays a role in promoter recognition. Taylor M, et al. **Mol Microbiol** 1996 Dec;22(5):1045–54

Phosphotransfer circuitry of the putative multi-signal transducer, ArcB, of Escherichia coli: in vitro studies with mutants. Tsuzuki M, et al. **Mol Microbiol** 1995 Dec; 18(5):953–62

A flexible partnership: the CytR anti-activator and the cAMP-CRP activator protein, comrades in transcription control. Valentin-Hansen P, et al. **Mol Microbiol** 1996 May; 20(3):461–6 (26 ref.)

SecA is an intrinsic subunit of the Escherichia coli preprotein translocase and exposes its carboxyl terminus to the periplasm. van der Does C, et al. **Mol Microbiol** 1996 Nov; 22(4):619–29

An alternative PII protein in the regulation of glutamine synthetase in Escherichia coli. van Heeswijk WC, et al. **Mol Microbiol** 1996 Jul;21(1):133–46

Integration host factor alleviates the H-NS-mediated repression of the early promoter of bacteriophage Mu. van Ulsen P, et al. **Mol Microbiol** 1996 Aug;21(3):567–78

Bacillus subtilis operon under the dual control of the general stress transcription factor sigma B and the sporulation transcription factor sigma H. Varón D, et al. **Mol Microbiol** 1996 Apr;20(2):339–50

A new type of transporter with a new type of cellular function: L-lysine export from Corynebacterium glutamicum. Vrljic M, et al. **Mol Microbiol** 1996 Dec; 22(5):815–26

Construction of a ferritin-deficient mutant of Campylobacter jejuni: contribution of ferritin to iron storage and protection against oxidative stress. Wai SN, et al. **Mol Microbiol** 1996 Jun;20(6):1127–34

Characterization of the CheAS/CheZ complex: a specific interaction resulting in enhanced dephosphorylating activity on CheY-phosphate. Wang H, et al. **Mol Microbiol** 1996 Feb;19(4):695–703

Identification of sigma S-dependent genes associated with the stationary-phase acid-resistance phenotype of Shigella flexneri. Waterman SR, et al. **Mol Microbiol** 1996 Sep; 21(5):925–40

Involvement of the amino-terminal phosphorylation module of UhpA in activation of uhpT transcription in Escherichia coli. Webber CA, et al. **Mol Microbiol** 1997 Jun; 24(5):1039–48

A putative helical domain in the MalK subunit of the ATP-binding-cassette transport system for maltose of Salmonella typhimurium (MalFGK2) is crucial for interaction with MalF and MalG. A study using the LacK protein of Agrobacterium radiobacter as a tool. Wilken S, et al. **Mol Microbiol** 1996 Nov;22(4):655–66

The cytosolic SycE and SycH chaperones of Yersinia protect the region of YopE and YopH involved in translocation across eukaryotic cell membranes. Woestyn S, et al. **Mol Microbiol** 1996 Jun;20(6):1261–71

SopE, a secreted protein of Salmonella dublin, is translocated into the target eukaryotic cell via a sip-dependent mechanism and promotes bacterial entry. Wood MW, et al. **Mol Microbiol** 1996 Oct;22(2):327–38

Exoenzyme S of Pseudomonas aeruginosa is secreted by a type III pathway. Yahr TL, et al. **Mol Microbiol** 1996 Dec; 22(5):991–1003

Action at a distance for glp repressor control of glpTQ transcription in Escherichia coli K-12. Yang B, et al. **Mol Microbiol** 1997 May;24(3):511–21

The sigma S level in starving Escherichia coli cells increases solely as a result of its increased stability, despite decreased synthesis. Zgurskaya HI, et al. **Mol Microbiol** 1997 May; 24(3):643–51

Differential binding of BvgA to two classes of virulence genes of Bordetella pertussis directs promoter selectivity by RNA polymerase. Zu T, et al. **Mol Microbiol** 1996 Aug; 21(3):557–65

MutS interaction with mismatch and alkylated base containing DNA molecules detected by optical biosensor. Babic I, et al. **Mutat Res** 1996 Nov 11;372(1):87–96

Evaluation of MutS as a tool for direct measurement of point mutations in genomic DNA. Parsons BL, et al. **Mutat Res** 1997 Mar 21;374(2):277–85

Fanconi anaemia forges a novel pathway [news] D'Andrea AD. **Nat Genet** 1996 Nov;14(3):240–2

Purification and characterization of the RecF protein from Bacillus subtilis 168. Ayora S, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2766–72

Characterization of DbpA, an Escherichia coli DEAD box protein with ATP independent RNA unwinding activity. Böddeker N, et al. **Nucleic Acids Res** 1997 Feb 1; 25(3):537–45

Cysteine-to-alanine replacements in the Escherichia coli SoxR protein and the role of the [2Fe-2S] centers in transcriptional activation. Bradley TM, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1469–75

The binding of two dimers of IciA protein to the dnaA promoter 1P element enhances the binding of RNA polymerase to the dnaA promoter 1P. Lee Y, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3486–9

DNA damage-dependent recruitment of nucleotide excision repair and transcription proteins to Escherichia coli inner membranes. Lin CG, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):3151–8

From footprint to toeprint: a close-up of the DnaA box, the binding site for the bacterial initiator protein DnaA. Speck C, et al. **Nucleic Acids Res** 1997 Aug 15; 25(16):3242–7

Nucleoprotein complex formation by the enhancer binding protein nifA. Wang XY, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3478–85

Conformational changes of purine repressor DNA-binding domain upon complexation with DNA. Nagadoi A, et al. **Nucleic Acids Symp Ser** 1995;(34):63–4

Structural requirement of four-way junction DNA for binding to and cleavage by RuvC. Shida T, et al. **Nucleic Acids Symp Ser** 1995;(34):5–6

Overexpression of the FosB2 gene in thymocytes causes aberrant development of T cells and thymic epithelial cells. Carrozza ML, et al. **Oncogene** 1997 Mar 6;14(9):1083–91

Control of the cell-specificity of sigma F activity in Bacillus subtilis. Errington J, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):537–42 (38 ref.)

Structure and function of Escherichia coli met repressor: similarities and contrasts with trp repressor. Phillips SE, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):527–35 (42 ref.)

Induction of cell killing, mutation and umu gene expression by 6-mercaptopurine or 2-thiouracil with UVA irradiation. Komeda K, et al. **Photochem Photobiol** 1997 Jan; 65(1):115–8

Light-stimulated degradation of an unassembled Rieske FeS protein by a thylakoid-bound protease: the possible role of the FtsH protease. Ostersetzer O, et al. **Plant Cell** 1997 Jun;9(6):957–65

Agrobacterium-plant cell DNA transport: have virulence proteins, will travel. Sheng J, et al. **Plant Cell** 1996 Oct; 8(10):1699–710 (55 ref.)

hrp gene-dependent induction of hin1: a plant gene activated rapidly by both harpins and the avrPto gene-mediated signal. Gopalan S, et al. **Plant J** 1996 Oct;10(4):591–600

PCR-identification of a Nicotiana plumbaginifolia cDNA homologous to the high-affinity nitrate transporters of the crnA family. Quesada A, et al. **Plant Mol Biol** 1997 May; 34(2):265–74

Differential transcription of phycobiliprotein components in Rhodella violacea. Light and nitrogen effects on the 33-kilodalton phycoerythrin rod linker polypeptide, phycocyanin, and phycoerythrin transcripts. Lichtlé C, et

al. **Plant Physiol** 1996 Nov;112(3):1045–54

Resolution of Holliday junctions in genetic recombination: RuvC protein nicks DNA at the point of strand exchange. Bennett RJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12217–22

Hydrogenase genes from Rhizobium leguminosarum bv. viciae are controlled by the nitrogen fixation regulatory protein nifA. Brito B, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6019–24

The purified Bacillus subtilis tetracycline efflux protein TetA(L) reconstitutes both tetracycline–cobalt/H+ and Na+(K+)/H+ exchange. Cheng J, et al.
Proc Natl Acad Sci U S A 1996 Dec 10;93(25):14446–51

Both an N-terminal 65–kDa domain and a C-terminal 30–kDa domain of SecA cycle into the membrane at SecYEG during translocation. Eichler J, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5574–81

SoxR, a [2Fe–2S] transcription factor, is active only in its oxidized form. Gaudu P, et al.
Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10094–8

Identification of a novel selD homolog from eukaryotes, bacteria, and archaea: is there an autoregulatory mechanism in selenocysteine metabolism? Guimaraes MJ, et al.
Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15086–91

Detecting the conformational change of transmembrane signaling in a bacterial chemoreceptor by measuring effects on disulfide cross–linking in vivo. Hughson AG, et al.
Proc Natl Acad Sci U S A 1996 Oct 15;93(21):11546–51

Iron–sulfur cluster disassembly in the FNR protein of Escherichia coli by O2: [4Fe–4S] to [2Fe–2S] conversion with loss of biological activity. Khoroshilova N, et al.
Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6087–92

Host regulation of lysogenic decision in bacteriophage lambda: transmembrane modulation of FtsH (HflB), the cII degrading protease, by HflKC (HflA). Kihara A, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5544–9

The cellulose–binding domain of the major cellobiohydrolase of Trichoderma reesei exhibits true reversibility and a high exchange rate on crystalline cellulose. Linder M, et al.
Proc Natl Acad Sci U S A 1996 Oct 29;93(22):12251–5

Inactivation of FtsI inhibits constriction of the FtsZ cytokinetic ring and delays the assembly of FtsZ rings at potential division sites. Pogliano J, et al.
Proc Natl Acad Sci U S A 1997 Jan 21;94(2):559–64

Bacterial nodulation protein NodZ is a chitin oligosaccharide fucosyltransferase which can also recognize related substrates of animal origin. Quinto C, et al.
Proc Natl Acad Sci U S A 1997 Apr 29;94(9):4336–41

Binding of SecB to ribosome–bound polypeptides has the same characteristics as binding to full–length, denatured proteins. Randall LL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):802–7

Mutant LexA proteins with specific defects in autodigestion. Shepley DP, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11528–33

Intermolecular disulfide bonds stabilize VirB7 homodimers and VirB7/VirB9 heterodimers during biogenesis of the Agrobacterium tumefaciens T–complex transport apparatus. Spudich GM, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7512–7

The NG domain of the prokaryotic signal recognition particle receptor, FtsY, is fully functional when fused to an unrelated integral membrane polypeptide. Zelazny A, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6025–9

Lactose repressor protein: functional properties and structure. Matthews KS, et al.
Prog Nucleic Acid Res Mol Biol 1998;58:127–64 (243 ref.)

Expression and epitope tagging of the membrane anchor subunit (DmsC) of Escherichia coli dimethyl sulfoxide reductase. Turner RJ, et al. **Protein Eng** 1997 Mar; 10(3):285–90

Flexibility of DNA binding domain of trp repressor required for recognition of different operator sequences. Gryk MR, et al. **Protein Sci** 1996 Jun;5(6):1195–7

Comparison of high–resolution structures of the diphtheria toxin repressor in complex with cobalt and zinc at the cation–anion binding site. Pohl E, et al. **Protein Sci** 1997 May;6(5):1114–8

Participation of water in Hin recombinase—DNA recognition. Robinson CR, et al. **Protein Sci** 1996 Oct; 5(10):2119–24

Determination of the binding frame of the chaperone SecB within the physiological ligand oligopeptide–binding protein. Smith VF, et al. **Protein Sci** 1997 Aug;6(8):1746–55

Structural consensus in ligand–protein docking identifies recognition peptide motifs that bind streptavidin. Shah NK, et al. **Proteins** 1997 Jul;28(3):421–33

Reverse catabolite repression and the regulation of CO2 fixation in Rhodobacter and related bacteria. Inui M, et al. **Res Microbiol** 1996 Jul–Sep;147(6–7):562–6 (32 ref.)

Role of alternate sigma factors in starvation protein synthesis—novel mechanisms of catabolite repression. Matin A. **Res Microbiol** 1996 Jul–Sep;147(6–7):494–505 (73 ref.)

Cra and the control of carbon flux via metabolic pathways. Ramseier TM. **Res Microbiol** 1996 Jul–Sep;147(6–7):489–93 (17 ref.)

Kdp–like system in Salmonella typhimurium LT–2. Garcia–Cuellar C, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):227–36

MutT prevents leakiness [comment] Bridges BA. **Science** 1997 Oct 3;278(5335):78–9. Comment on: Science 1997 Oct 3;278(5335):128–30.

DNA looping and lac repressor–CAP interaction [letter; comment] Fried MG, et al. **Science** 1996 Dec 13; 274(5294):1930–1; discussion 1931–2. Comment on: Science 1996 Mar 1;271(5253):1247–54.

Attractant signaling by an aspartate chemoreceptor dimer with a single cytoplasmic domain [see comments] Gardina PJ, et al. **Science** 1996 Oct 18;274(5286):425–6. Comment in: Science 1996 Oct 18;274(5286):370–1.

Protein localization and cell fate in bacteria. Shapiro L, et al. **Science** 1997 May 2;276(5313):712–8 (49 ref.)

Signaling across membranes: a one and a two and a... [comment] Stock J. **Science** 1996 Oct 18;274(5286):370–1 (10 ref.). Comment on: Science 1996 Oct 18;274(5286):423–5. Comment on: Science 1996 Oct 18;274(5286):425–6.

Counteraction by MutT protein of transcriptional errors caused by oxidative damage [see comments] Taddei F, et al. **Science** 1997 Oct 3;278(5335):128–30. Comment in: Science 1997 Oct 3;278(5335):78–9.

Signaling by the Escherichia coli aspartate chemoreceptor Tar with a single cytoplasmic domain per dimer [see comments] Tatsuno I, et al. **Science** 1996 Oct 18; 274(5286):423–5. Comment in: Science 1996 Oct 18;274(5286):370–1.

Identification of an asymmetrically localized sensor histidine kinase responsible for temporally and spatially regulated transcription. Wingrove JA, et al. **Science** 1996 Oct 25; 274(5287):597–601

Direct measurement of a tethered ligand–receptor interaction potential. Wong JY, et al. **Science** 1997 Feb 7; 275(5301):820–2

A good turn for DNA: the structure of integration host factor bound to DNA. Ellenberger T, et al. **Structure** 1997 Feb 15;5(2):153–7 (45 ref.)

The UmuD' protein filament and its potential role in damage induced mutagenesis. Peat TS, et al. **Structure** 1996 Dec 15;4(12):1401–12

Chaperones get in touch: the Hip–Hop connection. Frydman J, et al. **Trends Biochem Sci** 1997 Mar;22(3):87–92 (50 ref.)

Redox signal transduction via iron–sulfur clusters in the SoxR transcription activator. Hidalgo E, et al.
Trends Biochem Sci 1997 Jun;22(6):207–10 (37 ref.)

Protein misfolding in the cell envelope of Escherichia coli: new signaling pathways. Missiakas D, et al.
Trends Biochem Sci 1997 Feb;22(2):59–63 (35 ref.)

Protein aspartate phosphatases control the output of two–component signal transduction systems. Perego M, et al. **Trends Genet** 1996 Mar;12(3):97–101 (29 ref.)

Type III secretion systems: machines to deliver bacterial proteins into eukaryotic cells? Lee CA.
Trends Microbiol 1997 Apr;5(4):148–56 (58 ref.)

The chain of command in Pseudomonas quorum sensing. Pesci EC, et al. **Trends Microbiol** 1997 Apr;5(4):132–4; discussion 134–5 (18 ref.)

Salmonella invasion and delivery of protein effectors to mammalian cell cytoplasm. Scherer CA, et al.
Trends Microbiol 1997 Apr;5(4):127–9 (16 ref.)

Adaptation of a conjugal transfer system for the export of pathogenic macromolecules. Winans SC, et al.
Trends Microbiol 1996 Feb;4(2):64–8 (46 ref.)

Antagonistic effect of synthetic peptides corresponding to the binding regions within fimbrial subunit protein from Porphyromonas gingivalis to human gingival fibroblasts. Ogawa T, et al. **Vaccine** 1997 Feb;15(2):230–6

The role of N–actylglucosaminyl–1,6 anhydro N–acetylmuramyl–L–alanyl–D–glutamyl–meso–diaminopimelic acid–D–alanine for the induction of beta–lactamase in Enterobacter cloacae. Dietz H, et al.
Zentralbl Bakteriol 1996 Jul;284(2–3):207–17

Protein p60 participates in intestinal host invasion by Listeria monocytogenes. Hess J, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):263–72

Immunocytochemical localization of 60–kDa heat shock protein in Vibrio cholerae. Taguchi H, et al.
Zentralbl Bakteriol 1996 Aug;284(4):496–500

[Regulation of the phosphorelay at the initiation of sporulation and activation of sporulation–specific sigma factors in Bacillus subtilis] Tochikubo K, et al.
Nippon Saikingaku Zasshi 1996 Aug;51(3):789–801 (73 ref.) **(Jpn)**

[Dynamic structure change of protein secretion machinery] Nishiyama K, et al. **Tanpakushitsu Kakusan Koso** 1997 Jan; 42(1):1–11 (80 ref.) **(Jpn)**

[RNA–binding properties of ribosomal protein L1 from Thermus thermophilus] Elisekina IA, et al. **Biokhimiia** 1996 Nov;61(11):2040–4 (Eng. Abstr.) **(Rus)**

[Participation of DnaK chaperone and ATP in in vivo folding of firefly luciferase, synthesized by E. coli cells] Leont'eva OV, et al. **Biokhimiia** 1996 Apr;61(4):721–6 (Eng. Abstr.) **(Rus)**

[Release of protein into the extracellular space as a nonspecific response to stress in Escherichia coli] Roshchina EK, et al. **Mikrobiologiia** 1997 Mar–Apr; 66(2):179–84 (Eng. Abstr.) **(Rus)**

[VirD2–independent, but MobA–dependent transfer of plasmid DNA from a broad circle of hosts from agrobacterium into the plant cell nucleus] Shadenkov AA, et al. **Mol Biol (Mosk)** 1996 Mar–Apr;30(2):454–60 **(Rus)**

[DNA supercoiling and topoisomerases in Escherichia coli] Gómez–Eichelmann MC, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):291–304 (56 ref.) (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

The Bacillus thuringiensis vegetative insecticidal protein Vip3A lyses midgut epithelium cells of susceptible insects. Yu CG, et al. **Appl Environ Microbiol** 1997 Feb;63(2):532–6

Antibody fragments in tumor pretargeting. Evaluation of biotinylated Fab' colocalization with recombinant streptavidin and avidin. Wilbur DS, et al.
Bioconjug Chem 1996 Nov–Dec;7(6):689–702

Liver accumulation of TNP–modified streptavidin and avidin: potential use for targeted radio– and chemotherapy. Schechter B, et al. **J Drug Target** 1996;4(3):171–9

Effect of endogenous biotin on the applications of streptavidin and biotin in mice. Rusckowski M, et al.
Nucl Med Biol 1997 Apr;24(3):263–8

Intravenous avidin chase improved localization of radiolabeled streptavidin in intraperitoneal xenograft pretargeted with biotinylated antibody. Zhang M, et al.
Nucl Med Biol 1997 Jan;24(1):61–4

PHARMACOLOGY

The insecticidal proteins of Bacillus thuringiensis. Kumar PA, et al. **Adv Appl Microbiol** 1996;42:1–43 (311 ref.)

Synthesis of 4– and 5–series leukotrienes in the lung microvasculature challenged with Escherichia coli hemolysin: critical dependence on exogenous free fatty acid supply. Grimminger F, et al.
Am J Respir Cell Mol Biol 1997 Mar;16(3):317–24

Proteinaceous factor(s) in culture supernatant fluids of bifidobacteria which prevents the binding of enterotoxigenic Escherichia coli to gangliotetraosylceramide. Fujiwara S, et al.
Appl Environ Microbiol 1997 Feb;63(2):506–12

Antimycoplasma properties and application in cell culture of surfactin, a lipopeptide antibiotic from Bacillus subtilis. Vollenbroich D, et al. **Appl Environ Microbiol** 1997 Jan; 63(1):44–9

Modulation of the cleavage of glycosylphosphatidylinositol–anchored proteins by specific bacterial phospholipases. Sharom FJ, et al.
Biochem Cell Biol 1996;74(5):701–13

The effect of sterols on the sensitivity of membranes to the channel–forming antifungal antibiotic, syringomycin E. Feigin AM, et al. **Biochim Biophys Acta** 1997 Feb 21; 1324(1):102–10

Positive selection of recombinant DNA by CcdB. Bernard P. **Biotechniques** 1996 Aug;21(2):320–3

Helicobacter pylori extract stimulates inflammatory nitric oxide production. Tsuji S, et al. **Cancer Lett** 1996 Nov 29;108(2):195–200

Bacterial cell wall products increase monocyte HLA–DR and ICAM–1 without affecting lymphocyte CD18 expression. Heinzelmann M, et al. **Cell Immunol** 1997 Mar 15;176(2):127–34

Growth hormone release of interleukin–1 alpha, interferon–gamma and interleukin–4 from murine splenocytes stimulated with staphylococcal protein A, toxic shock syndrome toxin–1 and streptococcal lysin S. Galdiero M, et al. **Eur Cytokine Netw** 1997 Mar;8(1):83–90

The effects of calcium and other polyvalent cations on channel formation by Escherichia coli alpha–hemolysin in red blood cells and lipid bilayer membranes. Döbereiner A, et al. **Eur J Biochem** 1996 Sep 1;240(2):454–60

Vacuolating toxin from Helicobacter pylori activates cellular signaling and pepsinogen secretion in human gastric adenocarcinoma cells. Chan EC, et al. **FEBS Lett** 1996 Dec 9;399(1–2):127–30

Ion channels formed in planar lipid bilayers by Bacillus thuringiensis toxins in the presence of Manduca sexta midgut receptors. Schwartz JL, et al. **FEBS Lett** 1997 Jul 28;412(2):270–6

Purification of a product from Salmonella typhimurium with the ability to inhibit mitogen–induced proliferation of murine splenic T–lymphocytes. Matsui K.
FEMS Immunol Med Microbiol 1996 Feb;13(2):155–60

Suppression of mitogen–induced lymphocyte proliferation by syringomycin–E. Singh VK, et al.
FEMS Immunol Med Microbiol 1996 Sep;15(2–3):177–9

Inducible retroviral vectors regulated by lac repressor in mammalian cells. Chang BD, et al. **Gene** 1996 Dec 12; 183(1–2):137–42

Probing the mechanism of action of Bacillus thuringiensis insecticidal proteins by site–directed mutagenesis—a minireview. Dean DH, et al. **Gene** 1996 Nov 7;179(1):111–7 (25 ref.)

Effects of Helicobacter pylori vacuolating cytotoxin on primary cultures of human gastric epithelial cells. Smoot DT, et al. **Gut** 1996 Dec;39(96):795–9

Legionella pneumophila heat–shock protein–induced increase of interleukin–1 beta mRNA involves protein kinase C signalling in macrophages. Retzlaff C, et al.
Immunology 1996 Oct;89(2):281–8

Mycobacterium tuberculosis heat shock protein 10 increases both proliferation and death in mouse P19 teratocarcinoma cells. Galli G, et al. **In Vitro Cell Dev Biol Anim** 1996 Jul–Aug;32(7):446–50

Application of surfactin for mycoplasma inactivation in virus stocks [letter] Nissen E, et al.
In Vitro Cell Dev Biol Anim 1997 Jun;33(6):414–5

Effect of insecticidal crystal proteins of Bacillus thuringiensis

on human erythrocytes in vitro. Rani SS, et al. **Indian J Exp Biol** 1996 Dec;34(12):1241–4

Bacterial porins stimulate bone resorption. Meghji S, et al. **Infect Immun** 1997 Apr;65(4):1313–6

Effects of differential expression of the 49-kilodalton exoenzyme S by Pseudomonas aeruginosa on cultured eukaryotic cells. Olson JC, et al. **Infect Immun** 1997 Jan; 65(1):248–56

RU 41 740 (Biostim) and IL-4, or IL-13, have opposite effects on CD14, CD23, HLA-DR and HLA-DQ on monocytes. Garin L, et al. **Int J Immunopharmacol** 1996 Jan;18(1):69–74

Coactivation in vitro of the sigma54-dependent promoter Pu of the TOL plasmid of Pseudomonas putida by HU and the mammalian HMG-1 protein. Pérez-Martín J, et al. **J Bacteriol** 1997 Apr;179(8):2757–60

Yersinia invasin, a bacterial beta1-integrin ligand, is a potent inducer of lymphocyte motility and migration to collagen type IV and fibronectin. Arencibia I, et al. **J Immunol** 1997 Aug 15;159(4):1853–9

Nitric oxide and TNF-alpha production by murine peritoneal macrophages activated with a novel 20-kDa protein isolated from Bacillus thuringiensis var. thuringiensis parasporal bodies. Gomez-Flores R, et al. **J Immunol** 1997 Apr 15;158(8):3796–9

Escherichia coli hemolysin and Staphylococcus aureas alpha-toxin potently induce neutrophil adhesion to cultured human endothelial cells. Krüll M, et al. **J Immunol** 1996 Nov 1;157(9):4133–40

Properties of voltage-gated ion channels formed by syringomycin E in planar lipid bilayers. Feigin AM, et al. **J Membr Biol** 1996 Jan;149(1):41–7

Permeability increase induced by Escherichia coli hemolysin A in human macrophages is due to the formation of ionic pores: a patch clamp characterization. Menestrina G, et al. **J Membr Biol** 1996 Jan;149(2):113–21

Lipoproteins of Treponema denticola: their effect on human polymorphonuclear neutrophils. Sela MN, et al. **J Periodontal Res** 1997 Jul;32(5):455–66

Effects of dietary Spirulina maxima on endothelium dependent vasomotor responses of rat aortic rings. Paredes-Carbajal MC, et al. **Life Sci** 1997;61(15):PL 211–9

Purified protein from Salmonella typhimurium inhibits the interleukin-2 response of murine splenic T-lymphocytes activated with anti-CD3 antibody. Matsui K. **Microbiol Immunol** 1996;40(9):681–4

SYR2, a gene necessary for syringomycin growth inhibition of Saccharomyces cerevisiae. Cliften P, et al. **Microbiology** 1996 Mar;142 (Pt 3):477–84

Lipopeptide phytotoxins produced by Pseudomonas syringae pv. syringae: comparison of the biosurfactant and ion channel-forming activities of syringopeptin and syringomycin. Hutchison ML, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):347–54

Influence of the GroE molecular chaperone machine on the in vitro refolding of Escherichia coli beta-galactosidase. Ayling A, et al. **Protein Sci** 1996 Mar;5(3):478–87

Mechanisms of tolerance induced by an immunotoxin against CD3 epsilon in a rhesus kidney allograft model. Fechner JH Jr, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1158

Split tolerance induced by immunotoxin in a rhesus kidney allograft model. Fechner JH Jr, et al. **Transplantation** 1997 May 15;63(9):1339–45

Antagonistic effect of synthetic peptides corresponding to the binding regions within fimbrial subunit protein from Porphyromonas gingivalis to human gingival fibroblasts. Ogawa T, et al. **Vaccine** 1997 Feb;15(2):230–6

[A comparison of the antibacterial activity of the parasporal bodies of different bacilli] Iudina TG. **Izv Akad Nauk Ser Biol** 1996 Sep-Oct;(5):535–41 (Eng. Abstr.) **(Rus)**

[Sensitivity of dissociation variants of Micrococcus luteus to the action of delta-endotoxins of Bacillus thuringiensis] Iudina TG, et al. **Mikrobiologiia** 1996 May-Jun;65(3):365–9 (Eng. Abstr.) **(Rus)**

[Influence of Bacillus intermedius RNAse on growth-stimulating and antagonistic characteristics of Trichoderma harzianum] Egorov SI, et al. **Prikl Biokhim Mikrobiol** 1996 Sep-Oct;32(5):554–6 (Eng. Abstr.) **(Rus)**

[Pharmacology and toxicology of Spirulina alga] Chamorro G, et al. **Rev Invest Clin** 1996 Sep-Oct;48(5):389–99 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Escherichia coli defects caused by null mutations in dnaK and dnaJ genes. Paciorek J, et al. **Acta Microbiol Pol** 1997; 46(1):7–17

Genetic analysis of the Bordetella-host interaction. Cotter PA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:65–76

Analysis of the role of invasin during Yersinia pseudotuberculosis infection of mice. Marra A, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:290–2

Bacterial cell division and the Z ring. Lutkenhaus J, et al. **Annu Rev Biochem** 1997;66:93–116 (105 ref.)

NorA plasmid resistance to fluoroquinolones: role of copy number and norA frameshift mutations. Sun L, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1665–9

Hydrophilicity of quinolones is not an exclusive factor for decreased activity in efflux-mediated resistant mutants of Staphylococcus aureus. Takenouchi T, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1835–42

Tetracycline resistance mediated by ribosomal protection. Taylor DE, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):1–5 (41 ref.)

The kil gene of the ColE1 plasmid of Escherichia coli controlled by a growth-phase-dependent promoter mediates the secretion of a heterologous periplasmic protein during the stationary phase. Miksch G, et al. **Arch Microbiol** 1997 Feb-Mar;167(2-3):143–50

A fatty acid alpha-ketol, a product of the plant lipoxygenase pathway, is oxidized to 3(Z)-dodecendioic acid by a bacterial monooxygenase. Schneider C, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):364–6

Towards an understanding of the structural and functional properties of MscL, a mechanosensitive channel in bacteria. Blount P, et al. **Biol Cell** 1996;87(1-2):1–8 (58 ref.)

Protein turbines. I: The bacterial flagellar motor. Elston TC, et al. **Biophys J** 1997 Aug;73(2):703–21

Torque-generating units of the bacterial flagellar motor step independently. Samuel AD, et al. **Biophys J** 1996 Aug; 71(2):918–23

Positive selection of recombinant DNA by CcdB. Bernard P. **Biotechniques** 1996 Aug;21(2):320–3

Preventive role of lyophilic dairy products bulgaricum and biostim. Ivanova T, et al. **Cancer Lett** 1997 Mar 19; 114(1-2):93–5

An exported peptide functions intracellularly to contribute to cell density signaling in B. subtilis. Lazazzera BA, et al. **Cell** 1997 Jun 13;89(6):917–25

Recognition of the bacterial avirulence protein AvrBs3 occurs inside the host plant cell. Van den Ackerveken G, et al. **Cell** 1996 Dec 27;87(7):1307–16

Shigella actin-based motility in the absence of vinculin. Goldberg MB. **Cell Motil Cytoskeleton** 1997;37(1):44–53

Fit for life? Evolution of chaperones and folding catalysts parallels the development of complex organisms. Pahl A, et al. **Cell Stress Chaperones** 1997 Jun;2(2):78–86 (41 ref.)

Sequence analysis of the Methanococcus jannaschii genome and the prediction of protein function. Andrade M, et al. **Comput Appl Biosci** 1997 Aug;13(4):481–3

YerA mediates the secretion of the YopE cytotoxin of Yersinia pseudotuberculosis. Frithz-Lindsten E, et al. **Contrib Microbiol Immunol** 1995;13:225–9

The cellulosome: an exocellular, multiprotein complex specialized in cellulose degradation. Béguin P, et al. **Crit Rev Biochem Mol Biol** 1996 Jun;31(3):201–36 (177 ref.)

Actin dynamics in vivo. Welch MD, et al. **Curr Opin Cell Biol** 1997 Feb;9(1):54–61 (55 ref.)

Ethylene provides positional information on cortical cell division but is not involved in Nod factor-induced root hair tip growth in Rhizobium-legume interaction. Heidstra R, et al. **Development** 1997 May;124(9):1781–7

Global analysis of physiological responses in marine bacteria. Ostling J, et al. **Electrophoresis** 1997 Aug;18(8):1441–50 (54 ref.)

In vivo membrane assembly of the E.coli polytopic protein, melibiose permease, occurs via a Sec-independent process which requires the protonmotive force. Bassilana M, et al. **EMBO J** 1996 Oct 1;15(19):5202–8

ATP-dependent resolution of R-loops at the ColE1 replication origin by Escherichia coli RecG protein, a Holliday junction-specific helicase. Fukuoh A, et al. **EMBO J** 1997 Jan 2;16(1):203–9

Coordinated and differential expression of histone-like proteins in Escherichia coli: regulation and function of the H-NS analog StpA. Sonden B, et al. **EMBO J** 1996 Sep 16;15(18):4970–80

K+ is an indispensable cofactor for GrpE stimulation of ATPase activity of DnaK x DnaJ complex from Thermus thermophilus. Motohashi K, et al. **FEBS Lett** 1997 Aug 4;412(3):633–6

Treatment of HeLa cells with bacterial water extracts inhibits Shigella flexneri invasion. DiNovo BB, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2-3):149–58

The NAD synthetase NadE (OutB) of Bacillus subtilis is a sigma B-dependent general stress protein. Antelmann H, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):405–9

Mercury induces multiple antibiotic resistance in Escherichia coli through activation of SoxR, a redox-sensing regulatory protein. Fuentes AM, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):385–8

Role of cytochrome b562 in the archaeal aerobic respiratory chain of Sulfolobus sp. strain 7. Iwasaki T, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2-3):259–66

A flagellar-specific ATPase (FliI) is necessary for flagellar export in Helicobacter pylori. Jenks PJ, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):205–11

MetR-mediated repression of the glyA gene in Escherichia coli. Lorenz E, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2-3):229–33

Immotile phenotype of an Escherichia coli mutant lacking the histone-like protein HU. Nishida S, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):297–301

Insertional inactivation of a Tet(K)/Tet(L) like transporter does not eliminate tetracycline resistance in Bacillus cereus. Okstad OA, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):181–6

The PecM protein is necessary for the DNA-binding capacity of the PecS repressor, one of the regulators of virulence-factor synthesis in Erwinia chrysanthemi. Praillet T, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):265–70

Double-stranded origin nicking and replication initiation are coupled in the replication of a rolling circle plasmid, pT181. Rasooly A. **FEMS Microbiol Lett** 1997 Jun 15;151(2):185–9

Disruption of a sigma factor gene, sigF, affects an intermediate stage of spore pigment production in Streptomyces aureofaciens. Režuchová B, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):371–7

Evidence for regulation of the NADH peroxidase gene (npr) from Enterococcus faecalis by OxyR. Ross RP, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):177–83

Divergent activity and function of superoxide dismutases in Pasteurella haemolytica serotypes A1 and A2 and Pasteurella trehalosi serotype T10. Rowe HA, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):197–202

Lif, the lysostaphin immunity factor, complements FemB in staphylococcal peptidoglycan interpeptide bridge formation. Tschierske M, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):261–4

Development of antigen-delivery systems, based on the Escherichia coli hemolysin secretion pathway. Gentschev I, et al. **Gene** 1996 Nov 7;179(1):133–40

Identification of a new sigmaB-controlled gene, csbX, in Bacillus subtilis. Gomez M, et al. **Gene** 1997 Mar 25; 188(1):29–33

Differential expression of two sporulation specific sigma factors of Streptomyces aureofaciens correlates with the developmental stage. Kormanec J, et al. **Gene** 1996 Nov 28;181(1-2):19–27

Type-4 pili and meningococcal adhesiveness. Nassif X, et al. **Gene** 1997 Jun 11;192(1):149–53 (28 ref.)

Complete growth inhibition of Escherichia coli by ribosome trapping with truncated cspA mRNA at low temperature. Jiang W, et al. **Genes Cells** 1996 Nov;1(11):965–76

SurA, a periplasmic protein with peptidyl-prolyl isomerase activity, participates in the assembly of outer membrane porins. Rouvière PE, et al. **Genes Dev** 1996 Dec 15; 10(24):3170–82

Roles of the recG gene product of Escherichia coli in recombination repair: effects of the delta recG mutation on cell division and chromosome partition. Ishioka K, et al. **Genes Genet Syst** 1997 Apr;72(2):91–9

Regulation of the expression of Mycobacterium avium complex proteins differs according to the environment within host cells. Bermudez LE, et al. **Immunol Cell Biol** 1997 Feb;75(1):35–40

The dsbB gene product is required for protease production by Burkholderia cepacia. Abe M, et al. **Infect Immun** 1996 Oct;64(10):4378–80

Adherence of Mycoplasma gallisepticum involves variable surface membrane proteins. Athamna A, et al. **Infect Immun** 1997 Jun;65(6):2468–71

Conversion of M serotype 24 of Streptococcus pyogenes to M serotypes 5 and 18: effect on resistance to phagocytosis and adhesion to host cells. Courtney HS, et al. **Infect Immun** 1997 Jun;65(6):2472–4

Identification of four new members of the internalin multigene family of Listeria monocytogenes EGD. Dramsi S, et al. **Infect Immun** 1997 May;65(5):1615–25

Candida albicans binding to the oral bacterium Streptococcus gordonii involves multiple adhesin-receptor interactions. Holmes AR, et al. **Infect Immun** 1996 Nov;64(11):4680–5

A 140-kilodalton extracellular protein is essential for the accumulation of Staphylococcus epidermidis strains on surfaces. Hussain M, et al. **Infect Immun** 1997 Feb; 65(2):519–24

A third secreted protein that is encoded by the enteropathogenic Escherichia coli pathogenicity island is required for transduction of signals and for attaching and effacing activities in host cells. Lai LC, et al. **Infect Immun** 1997 Jun;65(6):2211–7

Unmasking of intestinal epithelial lateral membrane beta1 integrin consequent to transepithelial neutrophil migration in vitro facilitates inv-mediated invasion by Yersinia pseudotuberculosis. McCormick BA, et al. **Infect Immun** 1997 Apr;65(4):1414–21

Cell surface polypeptide CshA mediates binding of Streptococcus gordonii to other oral bacteria and to immobilized fibronectin. McNab R, et al. **Infect Immun** 1996 Oct;64(10):4204–10

Invasin-dependent and invasin-independent pathways for translocation of Yersinia pseudotuberculosis across the Peyer's patch intestinal epithelium. Marra A, et al. **Infect Immun** 1997 Aug;65(8):3412–21

The fibronectin-binding protein of Streptococcus pyogenes, SfbI, is involved in the internalization of group A streptococci by epithelial cells. Molinari G, et al. **Infect Immun** 1997 Apr;65(4):1357–63

Role of the carboxyl-terminal region of Porphyromonas gingivalis fimbrillin in binding to salivary proteins. Nagata H, et al. **Infect Immun** 1997 Feb;65(2):422–7

Role of sigma factor RpoS in initial stages of Salmonella typhimurium infection. Nickerson CA, et al. **Infect Immun** 1997 May;65(5):1814–23

Role of SefA subunit protein of SEF14 fimbriae in the pathogenesis of Salmonella enterica serovar Enteritidis. Ogunniyi AD, et al. **Infect Immun** 1997 Feb;65(2):708–17

Induction of biologically active interleukin-8 from lung epithelial cells by Burkholderia (Pseudomonas) cepacia products. Palfreyman RW, et al. **Infect Immun** 1997 Feb; 65(2):617–22

Topology of Legionella pneumophila DotA: an inner membrane protein required for replication in macrophages. Roy CR, et al. **Infect Immun** 1997 Feb;65(2):571–8

Mutants of Streptococcus suis types 1 and 2 impaired in

expression of muramidase-released protein and extracellular protein induce disease in newborn germfree pigs. Smith HE, et al. **Infect Immun** 1996 Oct; 64(10):4409–12

An Edwardsiella tarda strain containing a mutation in a gene with homology to shlB and hpmB is defective for entry into epithelial cells in culture. Strauss EJ, et al. **Infect Immun** 1997 Sep;65(9):3924–32

Contribution of TonB- and Feo-mediated iron uptake to growth of Salmonella typhimurium in the mouse. Tsolis RM, et al. **Infect Immun** 1996 Nov;64(11):4549–56

Vfr controls quorum sensing in Pseudomonas aeruginosa. Albus AM, et al. **J Bacteriol** 1997 Jun;179(12):3928–35

A [2Fe-2S] ferredoxin (FdVI) is essential for growth of the photosynthetic bacterium Rhodobacter capsulatus. Armengaud J, et al. **J Bacteriol** 1997 May;179(10):3304–9

A signal transducer for aerotaxis in Escherichia coli. Bibikov SI, et al. **J Bacteriol** 1997 Jun;179(12):4075–9

Regulation of the dnaK operon of Streptomyces coelicolor A3(2) is governed by HspR, an autoregulatory repressor protein. Bucca G, et al. **J Bacteriol** 1997 Oct; 179(19):5999–6004

Involvement of Fnr and ArcA in anaerobic expression of the tdc operon of Escherichia coli. Chattopadhyay S, et al. **J Bacteriol** 1997 Aug;179(15):4868–73

Characterization of membrane-associated Pseudomonas aeruginosa Ras-like protein Pra, a GTP-binding protein that forms complexes with truncated nucleoside diphosphate kinase and pyruvate kinase to modulate GTP synthesis. Chopade BA, et al. **J Bacteriol** 1997 Apr; 179(7):2181–8

Agrobacterium tumefaciens T-complex transport apparatus: a paradigm for a new family of multifunctional transporters in eubacteria. Christie PJ. **J Bacteriol** 1997 May; 179(10):3085–94 (102 ref.)

Plasmid virulence gene expression induced by short-chain fatty acids in Salmonella dublin: identification of rpoS-dependent and rpo-S-independent mechanisms. El-Gedaily A, et al. **J Bacteriol** 1997 Feb;179(4):1409–12

H-NS and RpoS regulate emergence of Lac Ara+ mutants of Escherichia coli MCS2. Gómez-Gómez JM, et al. **J Bacteriol** 1997 Jul;179(14):4620–2

FnrN controls symbiotic nitrogen fixation and hydrogenase activities in Rhizobium leguminosarum biovar viciae UPM791. Gutiérrez D, et al. **J Bacteriol** 1997 Sep; 179(17):5264–70

A specific protease encoded by the conjugative DNA transfer systems of IncP and Ti plasmids is essential for pilus synthesis. Haase J, et al. **J Bacteriol** 1997 Sep; 179(18):5728–35

The role of fur in the acid tolerance response of Salmonella typhimurium is physiologically and genetically separable from its role in iron acquisition. Hall HK, et al. **J Bacteriol** 1996 Oct;178(19):5683–91

Regions of Escherichia coli TonB and FepA proteins essential for in vivo physical interactions. Larsen RA, et al. **J Bacteriol** 1997 May;179(10):3213–21

Role of the RepA1 protein in RepFIC plasmid replication. Maas R, et al. **J Bacteriol** 1997 Apr;179(7):2163–8

Interactions of the RepA1 protein with its replicon targets: two opposing roles in control of plasmid replication. Maas R, et al. **J Bacteriol** 1997 Jun;179(12):3823–7

Contribution of partner switching and SpoIIAA cycling to regulation of sigmaF activity in sporulating Bacillus subtilis. Magnin T, et al. **J Bacteriol** 1997 Jun;179(12):3922–7

Paraquat regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K-12 is SoxRS independent but modulated by sigma S. Membrillo-Hernández J, et al. **J Bacteriol** 1997 May;179(10):3164–70

The RNA-binding protein HF-I plays a global regulatory role which is largely, but not exclusively, due to its role in expression of the sigmaS subunit of RNA polymerase in Escherichia coli. Muffler A, et al. **J Bacteriol** 1997 Jan; 179(1):297–300

Roles of Pseudomonas aeruginosa las and rhl quorum-sensing systems in control of elastase and rhamnolipid biosynthesis genes. Pearson JP, et al. **J Bacteriol** 1997 Sep; 179(18):5756–67

Cell wall anchoring of the Streptococcus pyogenes M6 protein in various lactic acid bacteria. Piard JC, et al. **J Bacteriol** 1997 May;179(9):3068–72

Transcription of Staphylococcus aureus fibronectin binding protein genes is negatively regulated by agr and an agr-independent mechanism. Saravia-Otten P, et al. **J Bacteriol** 1997 Sep;179(17):5259–63

Two-component regulatory systems can interact to process multiple environmental signals. Soncini FC, et al. **J Bacteriol** 1996 Dec;178(23):6796–801

Cell wall monoglycine cross-bridges and methicillin hypersusceptibility in a femAB null mutant of methicillin-resistant Staphylococcus aureus. Strandén AM, et al. **J Bacteriol** 1997 Jan;179(1):9–16

Expression of the Bacillus subtilis ureABC operon is controlled by multiple regulatory factors including CodY, GlnR, TnrA, and Spo0H. Wray LV Jr, et al. **J Bacteriol** 1997 Sep;179(17):5494–501

Streptococcal protein H forms soluble complement-activating complexes with IgG, but inhibits complement activation by IgG-coated targets. Berge A, et al. **J Biol Chem** 1997 Aug 15;272(33):20774–81

Protein PAB, an albumin-binding bacterial surface protein promoting growth and virulence. de Château M, et al. **J Biol Chem** 1996 Oct 25;271(43):26609–15

Interaction of Escherichia coli RecA protein with LexA repressor. II. Inhibition of DNA strand exchange by the uncleavable LexA S119A repressor argues that recombination and SOS induction are competitive processes. Harmon FG, et al. **J Biol Chem** 1996 Sep 27; 271(39):23874–83

CspA, the major cold-shock protein of Escherichia coli, is an RNA chaperone. Jiang W, et al. **J Biol Chem** 1997 Jan 3;272(1):196–202

Inhibition of thymidine transport in dnaA mutants of Escherichia coli. Mizushima T, et al. **J Biol Chem** 1997 Aug 22;272(34):21195–200

Chaperone SecB from Escherichia coli mediates kinetic partitioning via a dynamic equilibrium with its ligands. Topping TB, et al. **J Biol Chem** 1997 Aug 1;272(31):19314–8

Type II myosin heavy chain encoded by the myo2 gene composes the contractile ring during cytokinesis in Schizosaccharomyces pombe. Kitayama C, et al. **J Cell Biol** 1997 Jun 16;137(6):1309–19

The listerial exotoxins listeriolysin and phosphatidylinositol-specific phospholipase C synergize to elicit endothelial cell phosphoinositide metabolism. Sibelius U, et al. **J Immunol** 1996 Nov 1;157(9):4055–60

Internalin A can mediate phagocytosis of Listeria monocytogenes by mouse macrophage cell lines. Sawyer RT, et al. **J Leukoc Biol** 1996 Nov;60(5):603–10

Electrophysiological characteristics of the PhoE porin channel from Escherichia coli. Implications for the possible existence of a superfamily of ion channels. Berrier C, et al. **J Membr Biol** 1997 Mar 15;156(2):105–15

Molecular dissection of the large mechanosensitive ion channel (MscL) of E. coli: mutants with altered channel gating and pressure sensitivity. Häse CC, et al. **J Membr Biol** 1997 May 1;157(1):17–25

Characterization of the interaction between the restriction endonuclease McrBC from E. coli and its cofactor GTP. Pieper U, et al. **J Mol Biol** 1997 Sep 19;272(2):190–9

Regulation of Escherichia coli topA gene transcription: involvement of a sigmaS-dependent promoter. Qi H, et al. **J Mol Biol** 1997 Apr 4;267(3):481–9

Analysis of the protease and adhesin domains of the PrpRI of Porphyromonas gingivalis. Curtis MA. **J Periodontal Res** 1997 Jan;32(1 Pt 2):133–9

Are bacterial proteases important virulence factors? Lantz MS. **J Periodontal Res** 1997 Jan;32(1 Pt 2):126–32 (47 ref.)

Analysis of two-component signal transduction systems involved in transcriptional regulation. Hakenbeck R, et al. **Methods Enzymol** 1996;273:281–300 (96 ref.)

Mutational analysis of structure-function relationship of RNA polymerase in Escherichia coli. Jin DJ, et al. **Methods Enzymol** 1996;273:300–19 (71 ref.)

Regulation of virulence gene expression in pathogenic Listeria. Brehm K, et al. **Microbiologia** 1996 Jun; 12(2):219–36 (66 ref.)

The molecular mechanisms of actin-based intracellular motility by Listeria monocytogenes. Chakraborty T. **Microbiologia** 1996 Jun;12(2):237–44 (34 ref.)

Molecular determinants of Yersinia pathogenesis. Iriarte M, et al. **Microbiologia** 1996 Jun;12(2):267–80 (97 ref.)

Isolation of an IHF-deficient mutant of a Pseudomonas aeruginosa mucoid isolate and evaluation of the role of IHF in algD gene expression. Delic-Attree I, et al. **Microbiology** 1996 Oct;142 (Pt 10):2785–93

FNR-dependent repression of ndh gene expression requires two upstream FNR-binding sites. Meng W, et al. **Microbiology** 1997 May;143 (Pt 5):1521–32

Roles of RpoS (sigmaS), IHF and ppGpp in the expression of the hmp gene encoding the flavohemoglobin (Hmp) of Escherichia coli K-12. Membrillo-Hernandez J, et al. **Mol Gen Genet** 1997 May 20;254(5):599–603

Effects of the sinR and degU32 (Hy) mutations on the regulation of the aprE gene in Bacillus subtilis. Olmos J, et al. **Mol Gen Genet** 1997 Feb 20;253(5):562–7

Functional relationship between Escherichia coli RNase E and the CafA protein. Wachi M, et al. **Mol Gen Genet** 1997 Jan 27;253(4):515–9

The role of chromatin-associated protein Hbsu in beta-mediated DNA recombination is to facilitate the joining of distant recombination sites. Alonso JC, et al. **Mol Microbiol** 1995 Nov;18(3):471–8

The S-layer protein of Corynebacterium glutamicum is anchored to the cell wall by its C-terminal hydrophobic domain. Chami M, et al. **Mol Microbiol** 1997 Feb; 23(3):483–92

The ftsH gene of Bacillus subtilis is involved in major cellular processes such as sporulation, stress adaptation and secretion. Deuerling E, et al. **Mol Microbiol** 1997 Mar; 23(5):921–33

An ideR mutant of Mycobacterium smegmatis has derepressed siderophore production and an altered oxidative-stress response. Dussurget O, et al. **Mol Microbiol** 1996 Nov;22(3):535–44

The Bacillus subtilis DivIVA protein targets to the division septum and controls the site specificity of cell division. Edwards DH, et al. **Mol Microbiol** 1997 Jun;24(5):905–15

A new PrfA-regulated gene of Listeria monocytogenes encoding a small, secreted protein which belongs to the family of internalins. Engelbrecht F, et al. **Mol Microbiol** 1996 Aug;21(4):823–37

Stationary-phase regulation of the Saccharomyces cerevisiae SOD2 gene is dependent on additive effects of HAP2/3/4/5- and STRE-binding elements. Flattery-O'Brien JA, et al. **Mol Microbiol** 1997 Jan; 23(2):303–12

Role of the transcriptional activator RocR in the arginine-degradation pathway of Bacillus subtilis. Gardan R, et al. **Mol Microbiol** 1997 May;24(4):825–37

Maltose-binding protein interacts simultaneously and asymmetrically with both subunits of the Tar chemoreceptor. Gardina PJ, et al. **Mol Microbiol** 1997 Mar; 23(6):1181–91

Apoptosis of mouse dendritic cells is triggered by listeriolysin, the major virulence determinant of Listeria monocytogenes. Guzmán CA, et al. **Mol Microbiol** 1996 Apr;20(1):119–26

A motile but non-swarming mutant of Proteus mirabilis lacks FlgN, a facilitator of flagella filament assembly. Gygi D, et al. **Mol Microbiol** 1997 Aug;25(3):597–604

Inactivation of mecA prevents recovery from the competent state and interferes with cell division and the partitioning of nucleoids in Bacillus subtilis. Hahn J, et al. **Mol Microbiol** 1995 Nov;18(4):755–67

Characterization of the chemotaxis protein CheW from Rhodobacter sphaeroides and its effect on the behaviour of Escherichia coli. Hamblin PA, et al. **Mol Microbiol** 1997 Apr;24(1):41–51

The sodium-driven polar flagellar motor of marine Vibrio as the mechanosensor that regulates lateral flagellar expression. Kawagishi I, et al. **Mol Microbiol** 1996 May; 20(4):693–9

EspA, a protein secreted by enteropathogenic Escherichia coli, is required to induce signals in epithelial cells. Kenny B, et al. **Mol Microbiol** 1996 Apr;20(2):313–23

The unrelated surface proteins ActA of Listeria monocytogenes and IcsA of Shigella flexneri are sufficient to confer actin-based motility on Listeria innocua and Escherichia coli respectively. Kocks C, et al. **Mol Microbiol** 1995 Nov;18(3):413–23

Participation of the molecular chaperone DnaK in intracellular growth of Brucella suis within U937-derived phagocytes. Köhler S, et al. **Mol Microbiol** 1996 May; 20(4):701–12

The roles of proteins L28 and L33 in the assembly and function of Escherichia coli ribosomes in vivo. Maguire BA, et al. **Mol Microbiol** 1997 Jan;23(2):237–45

SpoIVB has two distinct functions during spore formation in Bacillus subtilis. Oke V, et al. **Mol Microbiol** 1997 Jan; 23(2):223–30

Paracoccus denitrificans CcmG is a periplasmic protein-disulphide oxidoreductase required for c- and aa3-type cytochrome biogenesis; evidence for a reductase role in vivo. Page MD, et al. **Mol Microbiol** 1997 Jun; 24(5):977–90

Involvement of the narJ and mob gene products in distinct steps in the biosynthesis of the molybdoenzyme nitrate reductase in Escherichia coli. Palmer T, et al. **Mol Microbiol** 1996 May;20(4):875–84

DnaA protein stimulates polA gene expression in Escherichia coli. Quiñones A, et al. **Mol Microbiol** 1997 Mar; 23(6):1193–202

PilC of Neisseria meningitidis is involved in class II pilus formation and restores pilus assembly, natural transformation competence and adherence to epithelial cells in PilC-deficient gonococci. Ryll RR, et al. **Mol Microbiol** 1997 Mar;23(5):879–92

Transcriptional co-activation at the ansB promoters: involvement of the activating regions of CRP and FNR when bound in tandem. Scott S, et al. **Mol Microbiol** 1995 Nov;18(3):521–31

Autoregulation of the Escherichia coli replication initiator protein, DnaA, is indirect. Smith RW, et al. **Mol Microbiol** 1997 Mar;23(6):1303–15

Studies on prolysostaphin processing and characterization of the lysostaphin immunity factor (Lif) of Staphylococcus simulans biovar staphylolyticus. Thumm G, et al. **Mol Microbiol** 1997 Mar;23(6):1251–65

FnrP and NNR of Paracoccus denitrificans are both members of the FNR family of transcriptional activators but have distinct roles in respiratory adaptation in response to oxygen limitation. Van Spanning RJ, et al. **Mol Microbiol** 1997 Mar;23(5):893–907

Structure, function and controls in microbial division. Vicente M, et al. **Mol Microbiol** 1996 Apr;20(1):1–7

FtsZ ring: the eubacterial division apparatus conserved in archaebacteria. Wang X, et al. **Mol Microbiol** 1996 Jul; 21(2):313–9

Discrete regions of the sensor protein virA determine the strain-specific ability of Agrobacterium to agroinfect maize. Heath JD, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):221–7

Induction of chalcone synthase expression by rhizobia and nod factors in root hairs and roots. Krause A, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):388–93

Coordinating DNA replication initiation with cell growth: differential roles for DnaA and SeqA proteins. Boye E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12206–11

Eubacterial signal transduction by ligands of the mammalian peripheral benzodiazepine receptor complex [see comments] Donohue TJ. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4821–2 (18 ref.). Comment in: Proc Natl Acad Sci U S A 1997 May 13;94(10):5101–6.

sigma54, a vital protein for Myxococcus xanthus. Keseler

IM, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4; 94(5):1979–84

Yersinia signals macrophages to undergo apoptosis and YopJ is necessary for this cell death. Monack DM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10385–90

Haemophilus influenzae pili are composite structures assembled via the HifB chaperone. St. Geme JW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11913–8

A mammalian mitochondrial drug receptor functions as a bacterial "oxygen" sensor [see comments] Yeliseev AA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5101–6 . Comment in: Proc Natl Acad Sci U S A 1997 May 13;94(10):4821–2.

The role of nitrogenase in a cyanide–degrading Klebsiella oxytoca strain. Liu JK, et al. **Proc Natl Sci Counc Repub China B** 1997 Apr;21(2):37–42

Enzymology of DNA transfer by conjugative mechanisms. Pansegrau W, et al. **Prog Nucleic Acid Res Mol Biol** 1996; 54:197–251 (184 ref.)

Out of the blue: the photocycle of the photoactive yellow protein. Schlichting I, et al. **Structure** 1997 Jun 15; 5(6):735–9 (24 ref.)

How the Listeria monocytogenes ActA protein converts actin polymerization into a motile force. Smith GA, et al. **Trends Microbiol** 1997 Jul;5(7):272–6 (42 ref.)

Bacterial phospholipases and their role in virulence [see comments] Songer JG. **Trends Microbiol** 1997 Apr; 5(4):156–61 (65 ref.). Comment in: Trends Microbiol 1997 Jul;5(7):265.

The inner workings of a quorum sensing signal generator. Swift S, et al. **Trends Microbiol** 1996 Dec;4(12):463–5; discussion 465–6

[PotD protein: three–dimensional structure and function] Sugiyama S, et al. **Seikagaku** 1997 Feb;69(2):113–9 (16 ref.) **(Jpn)**

[Cooperation of phage and bacterial proteins in bacteriophage lambda DNA replication] Marszalek J. **Postepy Biochem** 1997;43(1):5–12 (58 ref.) **(Pol)**

[Antimicrobial activity of proteinaceous inclusions in different types of bacteria] Iudina TG, et al. **Dokl Akad Nauk** 1996 Jul;349(2):283–6 **(Rus)**

POISONING

[Pharmacology and toxicology of Spirulina alga] Chamorro G, et al. **Rev Invest Clin** 1996 Sep–Oct;48(5):389–99 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Changes in cellular proteins of Deinococcus radiodurans following gamma–irradiation. Tanaka A, et al. **Radiat Environ Biophys** 1996 May;35(2):95–9

SECRETION

Secretion of Porphyromonas gingivalis fimbrillin polypeptides by recombinant Streptococcus gordonii. Sharma A, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):313–6

Effects of secretion inhibitors on the production of CAMP factor from Streptococcus agalactiae. Takaisi–Kikuni NB. **Cytobios** 1996;88(352):23–33

Protein secretion in gram–negative bacteria: assembly of the three components of ABC protein–mediated exporters is ordered and promoted by substrate binding. Létoffé S, et al. **EMBO J** 1996 Nov 1;15(21):5804–11

Specific interaction between OutD, an Erwinia chrysanthemi outer membrane protein of the general secretory pathway, and secreted proteins. Shevchik VE, et al. **EMBO J** 1997 Jun 2;16(11):3007–16

Molecular mechanisms of bacterial virulence: type III secretion and pathogenicity islands. Mecsas JJ, et al. **Emerg Infect Dis** 1996 Oct–Dec;2(4):270–88 (99 ref.)

Protein secretion in streptomycetes. Morosoli R, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):167–74 (35 ref.)

Enteropathogenic Escherichia coli protein secretion is induced in response to conditions similar to those in the gastrointestinal tract. Kenny B, et al. **Infect Immun** 1997 Jul;65(7):2606–12

Secretion of Shigella flexneri Ipa invasins on contact with epithelial cells and subsequent entry of the bacterium into cells are growth stage dependent. Mounier J, et al. **Infect Immun** 1997 Feb;65(2):774–82

Characterization of EspC, a 110–kilodalton protein secreted by enteropathogenic Escherichia coli which is homologous to members of the immunoglobulin A protease–like family of secreted proteins. Stein M, et al. **J Bacteriol** 1996 Nov; 178(22):6546–54

Secretion of nuclease across the outer membrane of Serratia marcescens and its energy requirements. Suh Y, et al. **J Bacteriol** 1997 Feb;179(3):677–83

A gene involved in both protein secretion during growth and starvation–induced development encodes a subunit of the NADH:ubiquinone oxidoreductase in Myxococcus xanthus. Laval–Favre K, et al. **Mol Microbiol** 1997 Mar; 23(5):1043–52

Cloning of an Aeromonas hydrophila type IV pilus biogenesis gene cluster: complementation of pilus assembly functions and characterization of a type IV leader peptidase/N–methyltransferase required for extracellular protein secretion. Pepe CM, et al. **Mol Microbiol** 1996 Feb; 19(4):857–69

Pili, peptidases and protein secretion: curious connections. Salmond GP. **Trends Microbiol** 1996 Dec;4(12):474–6

THERAPEUTIC USE

Local expression of cytokines in rat bladder carcinoma tissue after intravesical treatment with Nocardia rubra cell wall skeleton and bacille–Calmette–Guerin. Rohde D, et al. **Urol Res** 1997;25(1):19–24

TOXICITY

Impact of arachidonic versus eicosapentaenoic acid on exotonin–induced lung vascular leakage: relation to 4–series versus 5–series leukotriene generation. Grimminger F, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):513–9

Involvement of two amino acid residues in the loop region of Bacillus thuringiensis Cry1Ab toxin in toxicity and binding to Lymantria dispar. Lee MK, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):139–46

Bacterial hemolysins and leukotoxins affect target cells by forming large exogenous pores into their plasma membrane: Escherichia coli hemolysin A as a case example. Menestrina G, et al. **Biosci Rep** 1995 Dec;15(6):543–51

The small GTP binding protein rab7 is essential for cellular vacuolation induced by Helicobacter pylori cytotoxin. Papini E, et al. **EMBO J** 1997 Jan 2;16(1):15–24

Aminopeptidase dependent pore formation of Bacillus thuringiensis Cry1Ac toxin on Trichoplusia ni membranes. Lorence A, et al. **FEBS Lett** 1997 Sep 8;414(2):303–7

Marginal cross–resistance to mosquitocidal Bacillus thuringiensis strains in Cry11A–resistant larvae: presence of Cry11A–like toxins in these strains. Cheong H, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):419–24

Cytolytic activity of Bacillus thuringiensis CryIC and CryIAc toxins to Spodoptera sp. midgut epithelial cells in vitro. Wang SW, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):315–23

Role of vacuolating cytotoxin in gastritis due to Helicobacter pylori in gnotobiotic piglets. Eaton KA, et al. **Infect Immun** 1997 Aug;65(8):3462–4

Helicobacter pylori cytotoxin induces vacuolation of primary human mucosal epithelial cells. Harris PR, et al. **Infect Immun** 1996 Nov;64(11):4867–71

Examination of diarrheagenicity of cytolethal distending toxin: suckling mouse response to the products of the cdtABC genes of Shigella dysenteriae. Okuda J, et al. **Infect Immun** 1997 Feb;65(2):428–33

Defective export in Escherichia coli caused by DsbA'–PhoA hybrid proteins whose DsbA' domain cannot fold into a conformation resistant to periplasmic proteases. Guigueno A, et al. **J Bacteriol** 1997 May;179(10):3260–9

Structure–function studies of the adenylate cyclase toxin of Bordetella pertussis and the leukotoxin of Pasteurella haemolytica by heterologous C protein activation and construction of hybrid proteins. Westrop G, et al. **J Bacteriol** 1997 Feb;179(3):871–9

Vacuoles induced by Helicobacter pylori toxin contain both late endosomal and lysosomal markers. Molinari M, et al. **J Biol Chem** 1997 Oct 3;272(40):25339–44

Proteinase–mediated insect resistance to Bacillus thuringiensis toxins. Oppert B, et al. **J Biol Chem** 1997 Sep 19;272(38):23473–6

Mutations at domain II, loop 3, of Bacillus thuringiensis CryIAa and CryIAb delta–endotoxins suggest loop 3 is involved in initial binding to lepidopteran midguts. Rajamohan F, et al. **J Biol Chem** 1996 Oct 11; 271(41):25220–6

Effect of helicobacter pylori vacuolating toxin on maturation and extracellular release of procathepsin D and on epidermal growth factor degradation. Satin B, et al. **J Biol Chem** 1997 Oct 3;272(40):25022–8

Human endothelial cell activation and mediator release in response to the bacterial exotoxins Escherichia coli hemolysin and staphylococcal alpha–toxin. Grimminger F, et al. **J Immunol** 1997 Aug 15;159(4):1909–16

Purification and identification of a metabolite from Escherichia coli which is toxic to mosquito larvae. Thanabalu T, et al. **J Invertebr Pathol** 1996 May; 67(3):306–8

Balance of electrostatic and hydrophobic interactions in the lysis of model membranes by E. coli alpha–haemolysin. Ostolaza H, et al. **J Membr Biol** 1997 Jul 15;158(2):137–45

One gene in diamondback moth confers resistance to four Bacillus thuringiensis toxins. Tabashnik BE, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1640–4

ULTRASTRUCTURE

Advances in S–layer nanotechnology and biomimetics. Sleytr UB, et al. **Adv Biophys** 1997;34:71–9 (38 ref.)

Tubulin secondary structure analysis, limited proteolysis sites, and homology to FtsZ. de Pereda JM, et al. **Biochemistry** 1996 Nov 12;35(45):14203–15

Direct observation of protein secondary structure in gas vesicles by atomic force microscopy. McMaster TJ, et al. **Biophys J** 1996 May;70(5):2432–36

Crystal structure of an IHF–DNA complex: a protein–induced DNA U–turn. Rice PA, et al. **Cell** 1996 Dec 27;87(7):1295–306

Membrane topology of the transposon 10–encoded metal–tetracycline/H+ antiporter as studied by site–directed chemical labeling. Kimura T, et al. **J Biol Chem** 1997 Jan 3;272(1):580–5

The molecular structure of agrobacterium VirE2–single stranded DNA complexes involved in nuclear import. Citovsky V, et al. **J Mol Biol** 1997 Sep 5;271(5):718–27

The three–dimensional structure of mammalian ribonucleotide reductase protein R2 reveals a more–accessible iron–radical site than Escherichia coli R2. Kauppi B, et al. **J Mol Biol** 1996 Oct 11;262(5):706–20

Crystal structures of a mutant maltotetraose–forming exo–amylase cocrystallized with maltopentaose. Yoshioka Y, et al. **J Mol Biol** 1997 Aug 29;271(4):619–28

Structural studies on the 2.25–MDa homomultimeric phosphoenolpyruvate synthase from Staphylothermus marinus. Harauz G, et al. **J Struct Biol** 1996 Mar–Apr; 116(2):290–301

Hydration scanning tunneling microscopy of DNA and a bacterial surface protein. Heim M, et al. **J Struct Biol** 1997 Jul;119(2):212–21

Structural changes in native membrane proteins monitored at subnanometer resolution with the atomic force microscope: a review. Müller DJ, et al. **J Struct Biol** 1997 Jul;119(2):149–57 (56 ref.)

Bacillus subtilis 168 RecR protein–DNA complexes visualized as looped structures. Ayora S, et al. **Mol Gen Genet** 1997 Mar 18;254(1):54–62

Visualization of the subcellular location of sporulation proteins in Bacillus subtilis using immunofluorescence microscopy. Pogliano K, et al. **Mol Microbiol** 1995 Nov; 18(3):459–70

BACTERIAL RNA see **RNA, BACTERIAL**

BACTERIAL SENSITIVITY TESTS see **MICROBIAL SENSITIVITY TESTS**

BACTERIAL SPORES see **SPORES, BACTERIAL**

BACTERIAL STRUCTURAL GENES see **GENES, STRUCTURAL, BACTERIAL**

BACTERIAL TOXINS

Critical aspects of bacterial protein toxins. Singh BR. **Adv Exp Med Biol** 1996;391:63–84 (112 ref.)

Cross–talk between bacterial pathogens and their host cells. Galán JE, et al. **Ann Rev Cell Dev Biol** 1996;12:221–55 (172 ref.)

The reaction of bacterial toxins with formaldehyde and its use for antigen stabilization. Petre J, et al. **Dev Biol Stand** 1996;87:125–34

Cross–resistance to Bacillus sphaericus strains in Culex quinquefasciatus. Rodcharoen J, et al. **J Am Mosq Control Assoc** 1996 Jun;12(2 Pt 1):247–50

Characterization of Escherichia coli O157:H7 and other Shiga toxin–producing E. coli serotypes isolated from sheep. Kudva IT, et al. **J Clin Microbiol** 1997 Apr; 35(4):892–9

Crosslinked plasmalemmal cholesterol is sequestered to caveolae: analysis with a new cytochemical probe. Fujimoto T, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1197–205

Pseudomonas aeruginosa infection in patients with cystic fibrosis [letter; comment] Taccetti G, et al. **J Pediatr** 1996 Oct;129(4):619–20. Comment on: J Pediatr 1995 Nov;127(5):711–7.

Neutrophils mediate pulmonary vasomotor dysfunction in endotoxin–induced acute lung injury. Sheridan BC, et al. **J Trauma** 1997 Mar;42(3):391–6; discussion 396–7

Interleukin–13 receptors on human prostate carcinoma cell lines represent a novel target for a chimeric protein composed of IL–13 and a mutated form of Pseudomonas exotoxin. Maini A, et al. **J Urol** 1997 Sep;158(3 Pt 1):948–53

Molecular and biochemical characterization of a heat–labile cytotonic enterotoxin from Aeromonas hydrophila. Chopra AK, et al. **Microb Pathog** 1996 Nov;21(5):357–77

Cytolytic toxins from gram–negative bacteria. Ludwig A. **Microbiologia** 1996 Jun;12(2):281–96 (102 ref.)

A novel strategy for the negative selection in mouse embryonic stem cells operated with immunotoxin–mediated cell targeting. Kobayashi K, et al. **Nucleic Acids Res** 1996 Sep 15;24(18):3653–5

Building doors into cells. Bayley H. **Sci Am** 1997 Sep; 277(3):62–7

Large clostridial cytotoxins—a family of glycosyltransferases modifying small GTP–binding proteins. von Eichel–Streiber C, et al. **Trends Microbiol** 1996 Oct; 4(10):375–82 (55 ref.)

Bacterial enterotoxins. Vaishnavi C. **Trop Gastroenterol** 1996 Jul–Sep;17(3):160–4 (39 ref.)

Helicobacter pylori: bacterial factors and interaction with the epithelial cells. Mégraud F. **Yale J Biol Med** 1996 Jan–Feb;69(1):35–7 (16 ref.)

[Properties of Vero toxin produced by pathogenic E. coli 0157 (enterohemorrhagic E. coli)] Kurasono H, et al. **J Toxicol Sci** 1996 Aug;21(3 Appendix):151–9 **(Jpn)**

[Hemolytic uremic syndrome] Arai T, et al. **Nippon Rinsho** 1996 Sep;54(9):2551–60 (63 ref.) (Eng. Abstr.) **(Jpn)**

[Characteristics and molecular biology of verotoxin produced by enterohemorrhagic Escherichia coli] Iijima Y, et al. **Nippon Rinsho** 1997 Mar;55(3):646–50 (19 ref.) (Eng. Abstr.) **(Jpn)**

[New approach for the absorbent therapy of verotoxin–producing Escherichia coli infection] Takeda T,

et al. **Nippon Rinsho** 1997 Mar;55(3):751–7 (10 ref.) **(Jpn)**

[Biochemical and pharmacological studies of Clostridium perfringens epsilon-toxin] Nagahama M. **Nippon Saikingaku Zasshi** 1996 Oct;51(4):953–62 (20 ref.) **(Jpn)**

[Toxin produced by enteropathogenic Escherichia coli O157] Endo Y. **Tanpakushitsu Kakusan Koso** 1997 Mar; 42(4):652–9 (27 ref.) **(Jpn)**

[Bacterial toxins: their biological essence and origin] Vertiev IuV. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun; (3):43–6 (58 ref.) **(Rus)**

ADMINISTRATION & DOSAGE

Endotoxemia and mediator release during colonoscopy. Berger D, et al. **Endoscopy** 1995 Nov;27(9):671–5

The adjuvant effect of a non-toxic mutant of heat-labile enterotoxin of Escherichia coli for the induction of measles virus-specific CTL responses after intranasal co-immunization with a synthetic peptide. Partidos CD, et al. **Immunology** 1996 Dec;89(4):483–7

Magnetic resonance imaging and histopathological study of brain lesions in rabbits given intravenous verotoxin 2. Fujii J, et al. **Infect Immun** 1996 Dec;64(12):5053–60

Antibody responses in volunteers induced by nasal influenza vaccine combined with Escherichia coli heat-labile enterotoxin B subunit containing a trace amount of the holotoxin. Hashigucci K, et al. **Vaccine** 1996 Feb; 14(2):113–9

Humoral and cellular immune responses in the murine respiratory tract following oral immunization with cholera toxin or Escherichia coli heat-labile enterotoxin. Ruedl C, et al. **Vaccine** 1996 Jun;14(8):792–8

ADVERSE EFFECTS

Bacteriocolonic pathway for ethanol oxidation: characteristics and implications. Salaspuro M. **Ann Med** 1996 Jun;28(3):195–200 (88 ref.)

Phase II trial of intravenous endotoxin in patients with colorectal and non-small cell lung cancer. Otto F, et al. **Eur J Cancer** 1996 Sep;32A(10):1712–8

Immune response to Clostridium difficile infection. Kelly CP. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1048–53 (68 ref.)

Pathogenesis of Clostridium difficile-associated diarrhoea. Pothoulakis C. **Eur J Gastroenterol Hepatol** 1996 Nov; 8(11):1041–7 (68 ref.)

Are bacterial toxins involved in the aetiology of transmissible spongiform encephalopathies? Stockdale T. **Nutr Health** 1997;11(4):301–7

Jarisch-Herxheimer reaction [letter; comment] Marinella MA. **West J Med** 1996 Sep;165(3):161–2. Comment on: West J Med 1995 Dec;163(6):552–9.

ANALYSIS

Detection of the staphylococcal toxins. Bergdoll MS. **Adv Exp Med Biol** 1996;391:465–79 (38 ref.)

Clostridium perfringens toxins absorbed on filter paper--a simple method for sample conservation. Röhner E, et al. **Berl Munch Tierarztl Wochenschr** 1997 Feb;110(2):46–7

Determination of the cyanobacterial neurotoxin, anatoxin-a, by derivatisation using 7-fluoro-4-nitro-2,1,3-benzoxadiazole (NBD-F) and HPLC analysis with fluorimetric detection. James KJ, et al. **Biomed Chromatogr** 1996 Jan–Feb;10(1):46–7

Rapid and differential detection of two analogous enterotoxins of Vibrio cholerae and enterotoxigenic Escherichia coli by a modified enzyme-linked immunosorbent assay. Koike N, et al. **FEMS Immunol Med Microbiol** 1997 Jan;17(1):21–5

Pseudomonas aeruginosa can cause false-positive identification of verotoxin (Shiga-like toxin) production by a commercial enzyme immune assay system for the detection of Shiga-like toxins (SLTs) [letter] Beutin L, et al. **Infection** 1996 May–Jun;24(3):267–8

Detection of cyanobacterial toxins (microcystins) in cell extracts by micellar electrokinetic chromatography. Bouaïcha N, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):53–7

Controlled study of cytolethal distending toxin-producing Escherichia coli infections in Bangladeshi children. Albert MJ, et al. **J Clin Microbiol** 1996 Mar;34(3):717–9

Immune response to non-O157 Vero toxin-producing Escherichia coli in patients with hemolytic uremic syndrome [see comments] Ludwig K, et al. **J Infect Dis** 1996 Nov;174(5):1028–39. Comment in: J Infect Dis 1996 Nov;174(5):1136–9.

Perspective: the problem of non-O157:H7 shiga toxin (Verocytotoxin)-producing Escherichia coli [comment] Tarr PI, et al. **J Infect Dis** 1996 Nov;174(5):1136–9. Comment on: J Infect Dis 1996 Nov;174(5):1028–39.

Vero cytotoxigenic Escherichia coli infection in dairy farm families. Wilson JB, et al. **J Infect Dis** 1996 Nov; 174(5):1021–7

A new tissue technique for evaluating effects of Bacillus thuringiensis toxins on insect midgut epithelium. Braun L, et al. **J Invertebr Pathol** 1997 Mar;69(2):92–104

Detection of enterohaemorrhagic Escherichia coli O157:H7 in minced beef using immunomagnetic separation. Blanco JE, et al. **Microbiologia** 1996 Sep;12(3):385–94

Evaluation of an enzyme immunoassay for verotoxin detection in Escherichia coli. Frias C, et al. **Microbiologia** 1996 Sep;12(3):395–404

Detection and identification of microcystins in the drinking water of Haimen City, China. Harada K, et al. **Nat Toxins** 1996;4(6):277–83

Survey of microcystins in environmental water by a highly sensitive immunoassay based on monoclonal antibody. Ueno Y, et al. **Nat Toxins** 1996;4(6):271–6

Anatoxin-a in Irish freshwater and cyanobacteria, determined using a new fluorimetric liquid chromatographic method. James KJ, et al. **Toxicon** 1997 Jun;35(6):963–71

[A method for specific isolation of verotoxin-producing Escherichia coli colonies] Timm M, et al. **Berl Munch Tierarztl Wochenschr** 1996 Aug;109(8):270–2 (Eng. Abstr.) **(Ger)**

[Investigations of raw milk for Shiga-like toxin producing Escherichia coli by the polymerase chain reaction] Mäde D, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec; 103(12):511–2 (Eng. Abstr.) **(Ger)**

[Immunoenzyme assay of staphylococcal toxin using polyamide micropore membranes] Tashmukhamedova ShS, et al. **Vopr Med Khim** 1996 Jan–Mar;42(1):39–45 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Characterization of monoclonal antibody B7, which neutralizes the cytotoxicity of Pseudomonas aeruginosa exotoxin A. Shang HF, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):727–32

Saccharomyces boulardii protease inhibits Clostridium difficile toxin A effects in the rat ileum. Castagliuolo I, et al. **Infect Immun** 1996 Dec;64(12):5225–32

[A new approach to the prevention and treatment of lesions caused by bacterial toxins: prospects for using inhibitors of ADP ribosylation] Krasil'nikov II, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):11–3 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Bacterial growth and virulence factors production by different Bordetella pertussis strains. Lętowska I, et al. **Acta Microbiol Pol** 1997;46(1):45–55

Growth of Pasteurella haemolytica and production of its leukotoxin in semi-defined media. Highlander SK. **Am J Vet Res** 1997 Jul;58(7):749–54

Epidemiological relatedness and clonal types of natural populations of Escherichia coli strains producing Shiga toxins in separate populations of cattle and sheep. Beutin L, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2175–80

Evidence for production of paralytic shellfish toxins by bacteria associated with Alexandrium spp. (Dinophyta) in culture. Gallacher S, et al. **Appl Environ Microbiol** 1997 Jan;63(1):239–45

Analysis of whole-cell fatty acid profiles of verotoxigenic Escherichia coli and Salmonella enteritidis with the microbial identification system. Steele M, et al. **Appl Environ Microbiol** 1997 Feb;63(2):757–60

Cytokines in haemolytic uraemic syndrome associated with verocytotoxin-producing Escherichia coli infection. Inward CD, et al. **Arch Dis Child** 1997 Aug;77(2):145–7

Efficient production of heat-labile enterotoxin mutant proteins by overexpression of dsbA in a degP-deficient Escherichia coli strain. Wülfing C, et al. **Arch Microbiol** 1997 May;167(5):280–3

Verotoxin-producing Escherichia coli from the faeces of sheep, calves and pigs. Sidjabat-Tambunan H, et al. **Aust Vet J** 1997 Apr;75(4):292–3

Molecular cloning of Clostridium perfringens epsilon-toxin gene and its high level expression in E. coli. Goswami PP, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):735–40

Use of Tn5-gusA5 to investigate environmental and nutritional effects on gene expression in the coronatine biosynthetic gene cluster of Pseudomonas syringae pv. glycinea. Palmer DA, et al. **Can J Microbiol** 1997 Jun; 43(6):517–25

Preparation, cloning, and high level expression in E. coli of interleukin 2-pseudomonas exotoxin fusion genes. Gao J, et al. **Chin J Biotechnol** 1996;12(2):81–7

Verocytotoxin-producing Escherichia coli in children with hemolytic uremic syndrome in the Czech Republic. Bielaszewska M, et al. **Clin Nephrol** 1996 Jul;46(1):42–4

Non-O157 Vero cytotoxin producing Escherichia coli: aetiological agents of diarrhoea in children in Dunedin, New Zealand. Brooks HJ, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):163–70

Isolation of verotoxigenic Escherichia coli from the Tasmanian environment. Manandhar R, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):271–9

Prevalence and clinical manifestations of Shiga toxin-producing Escherichia coli infections in Austrian children. Allerberger F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):545–50

Culture conditions affect cytotoxin production by Serratia marcescens. Carbonell GV, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3–4):299–307

Variation in the agr-dependent expression of alpha-toxin and protein A among clinical isolates of Staphylococcus aureus from patients with septicaemia. Li S, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):155–61

The regulatory effect of fermentable sugar levels on the production of leukotoxin by Actinobacillus actinomycetemcomitans. Mizoguchi K, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):161–6

Coexpression of the B subunit of Shiga toxin 1 and EaeA from enterohemorrhagic Escherichia coli in Vibrio cholerae vaccine strains. Butterton JR, et al. **Infect Immun** 1997 Jun;65(6):2127–35

Regulation of anthrax toxin activator gene (atxA) expression in Bacillus anthracis: temperature, not CO2/bicarbonate, affects AtxA synthesis. Dai Z, et al. **Infect Immun** 1997 Jul;65(7):2576–82

Temperature- and medium-dependent secretion of proteins by Shiga toxin-producing Escherichia coli. Ebel F, et al. **Infect Immun** 1996 Nov;64(11):4472–9

Expression of an antisense hla fragment in Staphylococcus aureus reduces alpha-toxin production in vitro and attenuates lethal activity in a murine model. Kernodle DS, et al. **Infect Immun** 1997 Jan;65(1):179–84

Shiga toxin-producing Escherichia coli isolates from cases of human disease show enhanced adherence to intestinal epithelial (Henle 407) cells. Paton AW, et al. **Infect Immun** 1997 Sep;65(9):3799–805

Production of a complete binary toxin (actin-specific ADP-ribosyltransferase) by Clostridium difficile CD196. Perelle S, et al. **Infect Immun** 1997 Apr;65(4):1402–7

Ulcerative colitis precipitated by a verocytotoxin-producing Escherichia coli infection. Farina C, et al. **Ital J Gastroenterol** 1995 Dec;27(9):498–500

Detection of Escherichia coli O157:H7 and other verocytotoxin-producing E. coli (VTEC) in food. Vernozy-Rozand C. **J Appl Microbiol** 1997 May; 82(5):537–51 (124 ref.)

Characterization of dapB, a gene required by Pseudomonas syringae pv. tabaci BR2.024 for lysine and tabtoxinine-beta-lactam biosynthesis. Liu L, et al. **J Bacteriol** 1997 Jan;179(2):507–13

The role of the amino terminus in the kinetics and assembly of alpha-hemolysin of Staphylococcus aureus. Vandana S, et al. **J Biol Chem** 1997 Oct 3;272(40):24858–63

Rapid detection and isolation of shiga-like toxin (verocytotoxin)-producing Escherichia coli by direct testing of individual enterohemolytic colonies from washed sheep blood agar plates in the VTEC-RPLA assay. Beutin L, et al. **J Clin Microbiol** 1996 Nov;34(11):2812–4

Enterohemolytic phenotypes and genotypes of shiga toxin-producing Escherichia coli O111 strains from patients with diarrhea and hemolytic-uremic syndrome. Schmidt H, et al. **J Clin Microbiol** 1996 Oct;34(10):2364–7

Shiga toxin-producing Escherichia coli strains from bovines: association of adhesion with carriage of eae and other genes. Wieler LH, et al. **J Clin Microbiol** 1996 Dec; 34(12):2980–4

Production of Shiga-like toxins by Escherichia coli O157:H7 can be influenced by the neuroendocrine hormone norepinephrine. Lyte M, et al. **J Lab Clin Med** 1996 Oct; 128(4):392–8

Association of verotoxin-producing E. coli and verotoxin with hemolytic uremic syndrome. Arbus GS. **Kidney Int Suppl** 1997 Mar;58:S91–6 (78 ref.)

Verocytotoxin-producing Escherichia coli infection in family members of children with hemolytic uremic syndrome. Rivas M, et al. **Medicina (B Aires)** 1996;56(2):119–25

Effect of hemorrhagic toxin produced by Clostridium sporogenes on rabbit ligated intestinal loop. Hara-Kudo Y, et al. **Microb Pathog** 1997 Jan;22(1):31–8

The relationships between leukotoxin production, growth rate and the bicarbonate concentration in a toxin-production-variable strain of Actinobacillus actinomycetemcomitans. Ohta H, et al. **Microbiology** 1996 Apr;142 (Pt 4):963–70

Exotoxin A production in Pseudomonas aeruginosa requires the iron-regulated pvdS gene encoding an alternative sigma factor. Ochsner UA, et al. **Mol Microbiol** 1996 Sep; 21(5):1019–28

A new cytolethal distending toxin (CDT) from Escherichia coli producing CNF2 blocks HeLa cell division in G2/M phase. Pérès SY, et al. **Mol Microbiol** 1997 Jun; 24(5):1095–107

Linker insertion scanning of regA, an activator of exotoxin A production in Pseudomonas aeruginosa. Raivio TL, et al. **Mol Microbiol** 1996 Oct;22(2):239–54

Cross-talk to the genes for Bacillus anthracis capsule synthesis by atxA, the gene encoding the trans-activator of anthrax toxin synthesis. Uchida I, et al. **Mol Microbiol** 1997 Mar;23(6):1229–40

Toxin-producing species of Penicillium and the development of mycotoxins in must and homemade wine. Möller T, et al. **Nat Toxins** 1997;5(2):86–9

Distribution and characterization of faecal verotoxin-producing Escherichia coli (VTEC) isolated from healthy cattle. Blanco M, et al. **Vet Microbiol** 1997 Mar;54(3–4):309–19

The enterohemolysin phenotype of bovine Shiga-like toxin-producing Escherichia coli (SLTEC) is encoded by the EHEC-hemolysin gene. Wieler LH, et al. **Vet Microbiol** 1996 Sep;52(1–2):153–64

Studies on the development and use of a monoclonal sandwich ELISA for the detection of verotoxic Escherichia coli in animal faeces. Randall LP, et al. **Vet Rec** 1997 Feb 1;140(5):112–5

Atypical strains of verocytotoxin-producing Escherichia coli

O157 in beef cattle at slaughter in Veneto region, Italy. Conedera G, et al. **Zentralbl Veterinarmed [B]** 1997 Jul; 44(5):301–6

[Verocytotoxin-producing Escherichia coli O157 in Dutch veal calves and beef cattle] Heuvelink A, et al. **Tijdschr Diergeneeskd** 1996 Nov 15;121(22):642–6 (Eng. Abstr.) **(Dut)**

[Utilization of nylon membranes for specific isolation and characterization of verotoxin-producing Escherichia coli using DNA probes] Gallien P, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov–Dec; 109(11–12):431–3 (Eng. Abstr.) **(Ger)**

[Verotoxin-producing E. coli (VTEC) in feces from cattle slaughtered in Germany] Richter H, et al. **Berl Munch Tierarztl Wochenschr** 1997 Apr;110(4):121–7 (Eng. Abstr.) **(Ger)**

[The detection of toxinogenic Bacillus cereus strains] Seidel KE, et al. **Zentralbl Veterinarmed [B]** 1996 Sep;43(7):421–8 (Eng. Abstr.) **(Ger)**

[An old female case of vero-cytotoxin-producing Escherichia coli O-157: H7 infection] Takaki Y, et al. **Fukuoka Igaku Zasshi** 1997 Apr;88(4):128–31 (Eng. Abstr.) **(Jpn)**

[Study of diarrhea-inducing strains of Escherichia coli mainly isolated in Kanto area between June and September 1996] Kobayashi I, et al. **Kansenshogaku Zasshi** 1997 Jun; 71(6):495–500 (Eng. Abstr.) **(Jpn)**

[Serological assay for diagnosis of verotoxin-producing Escherichia coli (VTEC) infection in the patients with diarrhea] Kobayashi K, et al. **Kansenshogaku Zasshi** 1996 Jan;70(1):80–6 (Eng. Abstr.) **(Jpn)**

[Analysis of verotoxin-producing Escherichia coli (O157:H7) strains isolated in the Fukuoka area in 1994 by pulsed-field gel electrophoresis] Morooka T, et al. **Kansenshogaku Zasshi** 1996 Jan;70(1):7–10 (Eng. Abstr.) **(Jpn)**

[Suppressive effect of clarithromycin on the production of verotoxin by E. coli O157] Nakata K, et al. **Kansenshogaku Zasshi** 1997 May;71(5):437–42 (Eng. Abstr.) **(Jpn)**

[Isolation of verotoxin-producing Escherichia coli from cattle and characterization of the isolated strains] Takesue K, et al. **Kansenshogaku Zasshi** 1997 Feb;71(2):162–8 (Eng. Abstr.) **(Jpn)**

[Shiga toxin-producing(enterohemorrhagic) Escherichia coli: serovar, phagovar and biovar] Tamura K. **Nippon Rinsho** 1997 Mar;55(3):656–9 (8 ref.) (Eng. Abstr.) **(Jpn)**

[The role of Shigella dysenteriae toxin formation at different stages in the forming of the cellular immune response in experimental animals] Nikolaeva TN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar–Apr; (2):6–10 (Eng. Abstr.) **(Rus)**

BLOOD

Plasma endotoxin in typhoid fever. Suyasa IG, et al. **Kobe J Med Sci** 1995 Oct;41(5):175–86

Survival rate of mice after transient colonization with Escherichia coli clones carrying variant Shiga-like toxin type II operons. Paton JC, et al. **Microb Pathog** 1996 Jun; 20(6):377–83

CHEMISTRY

The staphylococcal and streptococcal pyrogenic toxin family. Bohach GA, et al. **Adv Exp Med Biol** 1996;391:131–54 (116 ref.)

Comparison of the beta-toxins from Staphylococcus aureus and Staphylococcus intermedius. Dziewanowska K, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):102–8

The heptameric prepore of a staphylococcal alpha-hemolysin mutant in lipid bilayers imaged by atomic force microscopy. Fang Y, et al. **Biochemistry** 1997 Aug 5; 36(31):9518–22

A pH-dependent conformational change in the B-subunit pentamer of Escherichia coli heat-labile enterotoxin: structural basis and possible functional role for a conserved feature of the AB5 toxin family. Ruddock LW, et al. **Biochemistry** 1996 Dec 17;35(50):16069–76

Secondary structure of anthrax lethal toxin proteins and their interaction with large unilamellar vesicles: a fourier-transform infrared spectroscopy approach. Wang XM, et al. **Biochemistry** 1996 Nov 26;35(47):14939–46

A predicted beta-sheet from class S components of staphylococcal gamma-hemolysin is essential for the secondary interaction of the class F component. Meunier O, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):275–86

Staphylococcal alpha-toxin: the role of the N-terminus in formation of the heptameric pore — a fluorescence study. Valeva A, et al. **Biochim Biophys Acta** 1997 Apr 26; 1325(2):281–6

Designed protein pores as components for biosensors. Braha O, et al. **Chem Biol** 1997 Jul;4(7):497–505

Channel-forming toxins: tales of transformation. Gouaux E. **Curr Opin Struct Biol** 1997 Aug;7(4):566–73 (63 ref.)

Aerolysin and pertussis toxin share a common receptor-binding domain. Rossjohn J, et al. **EMBO J** 1997 Jun;16(12):3426–34

Characterization of mutant Bordetella pertussis adenylate cyclase toxins with reduced affinity for calmodulin. Implications for the mechanism of toxin entry into target cells. Heveker N, et al. **Eur J Biochem** 1997 Feb 1; 243(3):643–9

Crystallization and preliminary X-ray analysis of a thiol-activated cytolysin. Feil SC, et al. **FEBS Lett** 1996 Nov 18;397(2–3):290–2

Evidence that Arg-295, Glu-378, and Glu-380 are active-site residues of the ADP-ribosyltransferase activity of iota toxin. Perelle S, et al. **FEBS Lett** 1996 Oct 21; 395(2–3):191–4

Delineation of the catalytic domain of Clostridium difficile toxin B-10463 to an enzymatically active N-terminal 467 amino acid fragment. Wagenknecht-Wiesner A, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):109–16

Site-specific mutagenesis of Clostridium perfringens alpha-toxin: replacement of Asp-56, Asp-130, or Glu-152 causes loss of enzymatic and hemolytic activities. Nagahama M, et al. **Infect Immun** 1997 Aug;65(8):3489–92

The role of the amino terminus in the kinetics and assembly of alpha-hemolysin of Staphylococcus aureus. Vandana S, et al. **J Biol Chem** 1997 Oct 3;272(40):24858–63

Intramolecular proteolytic cleavage of Bacillus thuringiensis Cry3A delta-endotoxin may facilitate its coleopteran toxicity. Carroll J, et al. **J Invertebr Pathol** 1997 Jul; 70(1):41–9

Staphylococcus aureus alpha-toxin: characterization of protein/lipid interactions, 2D crystallization on lipid monolayers, and 3D structure. Ellis MJ, et al. **J Struct Biol** 1997 Apr;118(3):178–88

Lambda-toxin of Clostridium perfringens activates the precursor of epsilon-toxin by releasing its N- and C-terminal peptides. Minami J, et al. **Microbiol Immunol** 1997;41(7):527–35

Mapping of the entomocidal fragment of Spodoptera-specific Bacillus thuringiensis toxin CryIC [published erratum appears in Mol Gen Genet 1997 Feb 27;253(6):777] Strizhov N, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):11–9

Structural basis for differential receptor binding of cholera and Escherichia coli heat-labile toxins: influence of heterologous amino acid substitutions in the cholera B-subunit. Bäckström M, et al. **Mol Microbiol** 1997 May; 24(3):489–97

Protein engineering studies of A-chain loop 47–56 of Escherichia coli heat-labile enterotoxin point to a prominent role of this loop for cytotoxicity. Feil IK, et al. **Mol Microbiol** 1996 May;20(4):823–32

More than one way to make a hole [news] Parker MW. **Nat Struct Biol** 1997 Apr;4(4):250–3

Solution structure of the carbohydrate-binding B-subunit homopentamer of verotoxin VT-1 from E. coli [letter] Richardson JM, et al. **Nat Struct Biol** 1997 Mar;4(3):190–3

Crystal structure of the anthrax toxin protective antigen. Petosa C, et al. **Nature** 1997 Feb 27;385(6619):833–8

Molecular modelling of Staphylococcal delta-toxin ion channels by restrained molecular dynamics. Kerr ID, et al. **Protein Eng** 1996 Feb;9(2):161–71

Structural and functional analogy between pneumolysin and proaerolysin. Sowdhamini R, et al. **Protein Eng** 1997 Mar; 10(3):207–15

Structural studies of receptor binding by cholera toxin mutants. Merritt EA, et al. **Protein Sci** 1997 Jul; 6(7):1516–28

Refined structures of three crystal forms of toxic shock syndrome toxin-1 and of a tetramutant with reduced activity. Prasad GS, et al. **Protein Sci** 1997 Jun;6(6):1220–7

Tumor marker disaccharide D-Gal-beta 1, 3-GalNAc complexed to heat-labile enterotoxin from Escherichia coli. van den Akker F, et al. **Protein Sci** 1996 Jun;5(6):1184–8

Crossing the hydrophobic barrier: insertion of membrane proteins [comment] Engelman DM. **Science** 1996 Dec 13; 274(5294):1850–1. Comment on: Science 1996 Dec 13;274(5294):1859–66.

Structure of staphylococcal alpha-hemolysin, a heptameric transmembrane pore [see comments] Song L, et al. **Science** 1996 Dec 13;274(5294):1859–66. Comment in: Science 1996 Dec 13;274(5294):1805–1.

The structure of Staphylococcus aureus epidermolytic toxin A, an atypic serine protease, at 1.7 A resolution. Cavarelli J, et al. **Structure** 1997 Jun 15;5(6):813–24

Crystal structure of a new heat-labile enterotoxin, LT-IIb. van den Akker F, et al. **Structure** 1996 Jun 15;4(6):665–78

Stability of microcystins from cyanobacteria—IV. Effect of chlorination on decomposition. Tsuji K, et al. **Toxicon** 1997 Jul;35(7):1033–41

[Lipopolysaccharides containing sialic acid] Gamian A. **Postepy Hig Med Dosw** 1996;50(5):459–72 (43 ref.) (Eng. Abstr.) **(Pol)**

[Bacterial endotoxins—methods of structural analysis] Niedziela T, et al. **Postepy Hig Med Dosw** 1996; 50(5):419–29 (19 ref.) (Eng. Abstr.) **(Pol)**

CLASSIFICATION

A novel superantigenic exotoxin from Yersinia psuedotuberculosis and its position in the classification of the entire bacterial toxins. Uchiyama T. **Contrib Microbiol Immunol** 1995;13:191–4

Verocytotoxin-producing Escherichia coli infection in hemolytic uremic syndrome in part of western Europe. van de Kar NC, et al. **Eur J Pediatr** 1996 Jul;155(7):592–5

Polymerase chain reaction test for differentiation of five toxin types of Clostridium perfringens. Yamagishi T, et al. **Microbiol Immunol** 1997;41(4):295–9

Typing of verotoxins by DNA colony hybridization with poly- and oligonucleotide probes, a bead-enzyme-linked immunosorbent assay, and polymerase chain reaction. Yamasaki S, et al. **Microbiol Immunol** 1996;40(5):345–52

Thrombotic thrombocytopenic purpura associated with Shiga toxins. Keusch GT, et al. **Semin Hematol** 1997 Apr; 34(2):106–16 (80 ref.)

GENETICS

Verotoxigenic Escherichia coli in slaughter cattle and ground beef in South Dakota. Reitsma CJ, et al. **Adv Exp Med Biol** 1997;412:87–8

Analysis of the enterohemorrhagic Escherichia coli O157 DNA region containing lambdoid phage gene p and Shiga-like toxin structural genes. Datz M, et al. **Appl Environ Microbiol** 1996 Mar;62(3):791–7

Identification and characterization of a previously undescribed cyt gene in Bacillus thuringiensis subsp. israelensis. Guerchicoff A, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2716–21

Detection of RTX toxin genes in gram-negative bacteria with a set of specific probes. Kuhnert P, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2258–65

Distribution and characterization of mosquitocidal toxin genes in some strains of Bacillus sphaericus. Priest FG, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1195–8

A PCR-based assay for the detection of Escherichia coli Shiga-like toxin genes in ground beef. Witham PK, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1347–53

Efficient production of heat-labile enterotoxin mutant proteins by overexpression of dsbA in a degP-deficient Escherichia coli strain. Wülfing C, et al. **Arch Microbiol** 1997 May;167(5):280–3

Diffuse adherence, ST-I enterotoxin and CFA/IV colonization factor are encoded by the same plasmid in the Escherichia coli O29:H21 strain. Silva RM, et al. **Braz J Med Biol Res** 1996 Aug;29(8):969–76

Use of Tn5-gusA5 to investigate environmental and nutritional effects on gene expression in the coronatine biosynthetic gene cluster of Pseudomonas syringae pv. glycinea. Palmer DA, et al. **Can J Microbiol** 1997 Jun; 43(6):517–25

In vitro effects of a recombinant toxin, mSCF-PE40, targeting c-kit receptors ectopically expressed in small cell lung cancers. Nishida K, et al. **Cancer Lett** 1997 Feb 26; 113(1–2):153–8

Introduction and expression of an anti-dipteran toxin gene from B. thuringiensis in nodulating Rhizobia. Guerchicoff A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul; 42(5):729–35

Phage display of Bacillus thuringiensis CryIA(a) insecticidal toxin. Marzari R, et al. **FEBS Lett** 1997 Jul 7;411(1):27–31

Constitutive expression of Pasteurella multocida toxin. Hoskins IC, et al. **FEMS Microbiol Lett** 1996 Aug 1; 141(2–3):189–93

Collagenase gene (colA) is located in the 3'-flanking region of the perfringolysin O (pfoA) locus in Clostridium perfringens. Ohtani K, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):155–9

Characterization of polymorphisms in the toxin A and B genes of Clostridium difficile. Rupnik M, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):197–202

Single-step polymerase chain reaction for combined gene detection and epidemiological typing in three bacterial models. Saulnier P, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):311–6

An ileX tRNA gene is located close to the Shiga toxin II operon in enterohemorrhagic Escherichia coli O157 and non-O157 strains. Schmidt H, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):39–44

Comparison of the nucleotide sequence of enteroaggregative Escherichia coli heat-stable enterotoxin 1 genes among diarrhea-associated Escherichia coli. Yamamoto T, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):89–95

Definition of the single integration site of the pathogenicity locus in Clostridium difficile. Braun V, et al. **Gene** 1996 Nov 28;181(1–2):29–38

Two novel human members of an emerging mammalian gene family related to mono-ADP-ribosylating bacterial toxins. Koch-Nolte F, et al. **Genomics** 1997 Feb 1;39(3):370–6

The gene slyA of Salmonella typhimurium is required for destruction of M cells and intracellular survival but not for invasion or colonization of the murine small intestine. Daniels JJ, et al. **Infect Immun** 1996 Dec;64(12):5075–84

Generation of targeted nonpolar gene insertions and operon fusions in Pasteurella haemolytica and creation of a strain that produces and secretes inactive leukotoxin. Fedorova ND, et al. **Infect Immun** 1997 Jul;65(7):2593–8

Differential influence of the two Bacillus anthracis plasmids on regulation of virulence gene expression. Fouet A, et al. **Infect Immun** 1996 Dec;64(12):4928–32

Cloning and characterization of the Bacteroides fragilis metalloprotease toxin gene. Franco AA, et al. **Infect Immun** 1997 Mar;65(3):1007–13

The anthrax toxin activator gene atxA is associated with CO2-enhanced non-toxin gene expression in Bacillus anthracis. Hoffmaster AR, et al. **Infect Immun** 1997 Aug; 65(8):3091–9

Positive regulation of Clostridium difficile toxins. Moncrief JS, et al. **Infect Immun** 1997 Mar;65(3):1105–8

Specific roles of alpha-toxin and beta-toxin during Staphylococcus aureus corneal infection. O'Callaghan RJ, et al. **Infect Immun** 1997 May;65(5):1571–8

Analysis of expression of the alpha-toxin gene (hla) of

Staphylococcus aureus by using a chromosomally encoded hla::lacZ gene fusion. Ohlsen K, et al. **Infect Immun** 1997 Sep;65(9):3606–14

Examination of diarrheagenicity of cytolethal distending toxin: suckling mouse response to the products of the cdtABC genes of Shigella dysenteriae. Okuda J, et al. **Infect Immun** 1997 Feb;65(2):428–33

Cloning, expression, and molecular characterization of the dermonecrotic toxin gene of Bordetella spp. Pullinger GD, et al. **Infect Immun** 1996 Oct;64(10):4163–71

Chemiluminescent enzyme immunoassay for detection of PCR–amplified enterotoxin A from Clostridium perfringens. Baez LA, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):145–58

Enterotoxigenic Escherichia coli detected in foods by PCR and an enzyme–linked oligonucleotide probe. Deng MY, et al. **Int J Food Microbiol** 1996 Jul;30(3):217–29

Cloning and analysis of the first cry gene from Bacillus popilliae. Zhang J, et al. **J Bacteriol** 1997 Jul; 179(13):4336–41

Development of a highly specific assay for rapid identification of pathogenic strains of Yersinia enterocolitica based on PCR amplification of the Yersinia heat–stable enterotoxin gene (yst). Ibrahim A, et al. **J Clin Microbiol** 1997 Jun;35(6):1636–8

Instability of a Shiga toxin type 2 gene in Enterobacter cloacae [letter] Paton JC, et al. **J Clin Microbiol** 1997 Jul; 35(7):1917

Actinobacillus suis strains isolated from healthy and diseased swine are clonal and carry apxICABDvar. suis and apxIICAvar. suis toxin genes. Van Ostaaijen J, et al. **J Clin Microbiol** 1997 May;35(5):1131–7

Helicobacter pylori cagA+ strains and dissociation of gastric epithelial cell proliferation from apoptosis [see comments] Peek RM Jr, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):863–8. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):836–7.

Isolation of alpha–toxin, theta–toxin and kappa–toxin mutants of Clostridium perfringens by Tn916 mutagenesis. Awad MM, et al. **Microb Pathog** 1997 May;22(5):275–84

The toxigenic element of Clostridium difficile strain VPI 10463. Hammond GA, et al. **Microb Pathog** 1995 Oct; 19(4):203–13

Transcriptional analysis of the toxigenic element of Clostridium difficile. Hammond GA, et al. **Microb Pathog** 1997 Mar;22(3):143–54

Nucleotide sequence of a gene encoding the novel Yersinia enterocolitica heat–stable enterotoxin that includes a pro–region–like sequence in its mature toxin molecule. Huang X, et al. **Microb Pathog** 1997 Feb;22(2):89–97

Towards a vaccine candidate against Shigella dysenteriae 1: expression of the Shiga toxin B–subunit in an attenuated Shigella flexneri aroD carrier strain. Tzschaschel BD, et al. **Microb Pathog** 1996 Oct;21(4):277–88

Threonine–74 is a key site for the activity of Clostridium perfringens alpha–toxin. Nagahama M, et al. **Microbiol Immunol** 1996;40(3):189–93

Characterization of a toxin–deficient Clostridium perfringens strain, KZ1340. Shimizu T, et al. **Microbiol Immunol** 1996; 40(2):141–5

Polymerase chain reaction test for differentiation of five toxin types of Clostridium perfringens. Yamagishi T, et al. **Microbiol Immunol** 1997;41(4):295–9

Escherichia coli STb enterotoxin. Dubreuil JD. **Microbiology** 1997 Jun;143 (Pt 6):1783–95 (89 ref.)

Escherichia coli LT enterotoxin subunit A demonstrates partial toxicity independent of the nicking around Arg192. Tsuji T, et al. **Microbiology** 1997 Jun;143 (Pt 6):1797–804

ExoU expression by Pseudomonas aeruginosa correlates with acute cytotoxicity and epithelial injury. Finck–Barbançon V, et al. **Mol Microbiol** 1997 Aug;25(3):547–57

yst gene expression in Yersinia enterocolitica is positively regulated by a chromosomal region that is highly homologous to Escherichia coli host factor 1 gene (hfq). Nakao H, et al. **Mol Microbiol** 1995 Dec;18(5):859–65

Induction of haemolytic activity in Escherichia coli by the slyA gene product. Oscarsson J, et al. **Mol Microbiol** 1996 Apr;20(1):191–9

Cross–talk to the genes for Bacillus anthracis capsule synthesis by atxA, the gene encoding the trans–activator of anthrax toxin synthesis. Uchida I, et al. **Mol Microbiol** 1997 Mar;23(6):1229–40

A diffusible cytotoxin of Haemophilus ducreyi. Cope LD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4056–61

Protein engineering of Bacillus thuringiensis delta–endotoxin: mutations at domain II of CryIAb enhance receptor affinity and toxicity toward gypsy moth larvae. Rajamohan F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14338–43

Use of Vibrio spp. for expression of Escherichia coli enterotoxin B subunit fusion proteins: purification and characterization of a chimera containing a C–terminal fragment of DNA polymerase from herpes simplex virus type 1. Loregian A, et al. **Protein Expr Purif** 1996 Nov; 8(3):381–9

Expression and purification of anthrax toxin protective antigen from Escherichia coli. Sharma M, et al. **Protein Expr Purif** 1996 Feb;7(1):33–8

Construction, purification and immunogenicity of antigen–antibody–LTB complexes. Green EA, et al. **Vaccine** 1996 Jul;14(10):949–58

[Detection of dermonecrotic toxin genes in Pasteurella multocida strains using the polymerase chain reaction (PCR)] Hotzel H, et al. **Berl Munch Tierarztl Wochenschr** 1997 Apr;110(4):139–42 (Eng. Abstr.) **(Ger)**

[Typing of the apx toxin gene of Actinobacillus pleuropneumoniae using PCR] Frey J, et al. **Schweiz Arch Tierheilkd** 1996;138(3):121–4 (Eng. Abstr.) **(Ger)**

[Detection of verotoxin genes in verotoxin–producing Escherichia coli by polymerase chain reaction and their genotyping] Ito K, et al. **Nippon Rinsho** 1997 Mar; 55(3):660–4 (18 ref.) **(Jpn)**

[Rapid detection of the Escherichia cori verotoxin gene using fluorescence polarization] Tsuruoka M, et al. **Nippon Rinsho** 1997 Mar;55(3):741–6 (10 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Parameters for the rational design of genetic toxoid vaccines. Burnette WN. **Adv Exp Med Biol** 1996;397:61–7 (27 ref.)

Protective immunity induced by Bacillus anthracis toxin mutant strains. Pezard C, et al. **Adv Exp Med Biol** 1996; 397:69–72 (13 ref.)

New vaccines against bacterial toxins. Rappuoli R, et al. **Adv Exp Med Biol** 1996;397:55–60 (30 ref.)

Effect of antibodies to staphylococcal alpha and beta toxins and Staphylococcus aureus on the cytotoxicity for and adherence of the organism to bovine mammary epithelial cells. Cifrian E, et al. **Am J Vet Res** 1996 Sep;57(9):1308–11

Survival of anti–Clostridium difficile bovine immunoglobulin concentrate in the human gastrointestinal tract. Kelly CP, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):236–41

A conformational epitope in the N–terminus of the Escherichia coli heat–stable enterotoxins is involved in receptor–ligand interactions. Garrett BM, et al. **Biochim Biophys Acta** 1996 Nov 15;1317(2):149–54

Characterization of RFB4–Pseudomonas exotoxin A immunotoxins targeted to CD22 on B–cell malignancies. Mansfield E, et al. **Bioconjug Chem** 1996 Sep–Oct; 7(5):557–63

Characterization of monoclonal antibody B7, which neutralizes the cytotoxicity of Pseudomonas aeruginosa exotoxin A. Shang HF, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):727–32

Isolation of Shiga–like toxin producing Escherichia coli (O157 and non–O157) in a community hospital. Park CH, et al. **Diagn Microbiol Infect Dis** 1996 Oct;26(2):69–72

A recombinant Escherichia coli heat–stable enterotoxin b (STb) fusion protein eliciting neutralizing antibodies. Dubreuil JD, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):317–23

Immunological and functional comparison between Clostridium perfringens iota toxin, C. spiroforme toxin, and anthrax toxins. Perelle S, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):117–21

Delivery of antigens to the MHC class I pathway using bacterial toxins. Goletz TJ, et al. **Hum Immunol** 1997 May; 54(2):129–36 (90 ref.)

Relationship between a low toxicity of the mutant A subunit of enterotoxigenic Escherichia coli enterotoxin and its strong adjuvant action. Tsuji T, et al. **Immunology** 1997 Feb;90(2):176–82

Murine antibody responses to the verotoxin 1 B subunit: demonstration of major histocompatibility complex dependence and an immunodominant epitope involving phenylalanine 30. Bast DJ, et al. **Infect Immun** 1997 Jul; 65(7):2978–82

Streptococcal mitogenic exotoxin Z, a novel acidic superantigenic toxin produced by a T1 strain of Streptococcus pyogenes. Kamezawa Y, et al. **Infect Immun** 1997 Sep;65(9):3828–33

Protective immunity against Clostridium difficile toxin A induced by oral immunization with a live, attenuated Vibrio cholerae vector strain. Ryan ET, et al. **Infect Immun** 1997 Jul;65(7):2941–9

A recombinant Bacillus anthracis strain producing the Clostridium perfringens Ib component induces protection against iota toxins. Sirard JC, et al. **Infect Immun** 1997 Jun; 65(6):2029–33

A standard immunoglobulin preparation produced from bovine colostra shows antibody reactivity and neutralization activity against Shiga–like toxins and EHEC–hemolysin of Escherichia coli O157:H7. Lissner R, et al. **Infection** 1996 Sep–Oct;24(5):378–83

Vaccination schedules to raise antibody concentrations against epsilon–toxin of Clostridium perfringens in ewes and their triplet lambs. de la Rosa C, et al. **J Anim Sci** 1997 Sep;75(9):2328–34

Serodiagnosis of listeriosis based upon detection of antibodies against recombinant truncated forms of listeriolysin O. Gholizadeh Y, et al. **J Clin Microbiol** 1996 Jun;34(6):1391–5

Comparison of the western blot assay with the neutralizing–antibody and enzyme–linked immunosorbent assays for measuring antibody to verocytotoxin 1. Reymond D, et al. **J Clin Microbiol** 1997 Mar;35(3):609–13

Neutralizing antibodies to Escherichia coli Vero cytotoxin 1 and antibodies to O157 lipopolysaccharide in healthy farm family members and urban residents. Reymond D, et al. **J Clin Microbiol** 1996 Sep;34(9):2053–7

Production, characterization and immunodiagnostic application of a monoclonal antibody to Shiga toxin. Qadri F, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):95–100

Diagnostic potential of a serological assay for the diagnosis of ulcerans disease based on the putative Mycobacterium ulcerans toxin. Roberts B, et al. **J Med Microbiol** 1997 Apr; 46(4):333–9

Characterization of lethal factor binding and cell receptor binding domains of protective antigen of Bacillus anthracis using monoclonal antibodies. Little SF, et al. **Microbiology** 1996 Mar;142 (Pt 3):707–15

Selective binding of bacterial toxins to major histocompatibility complex class II–expressing cells is controlled by invariant chain and HLA–DM. Lavoie PM, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6892–7

Construction, purification and immunogenicity of antigen–antibody–LTB complexes. Green EA, et al. **Vaccine** 1996 Jul;14(10):949–58

Immunogenicity of a fusion protein linking the beta subunit carboxyl terminal peptide (CTP) of human chorionic gonadotropin to the B subunit of Escherichia coli heat–labile enterotoxin (LTB). Rock EP, et al. **Vaccine** 1996 Nov;14(16):1560–8

Anthrax post–vaccinal cell–mediated immunity in humans: kinetics pattern. Shlyakhov E, et al. **Vaccine** 1997 Apr–May;15(6–7):631–6

Suppression of delayed–type hypersensitivity and IgE antibody responses to ovalbumin by intranasal administration of Escherichia coli heat–labile enterotoxin B subunit–conjugated ovalbumin. Tamura S, et al. **Vaccine** 1997 Feb;15(2):225–9

[Early endotoxin tolerance—a preventive concept against infection] Staubach KH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:360–3 (Eng. Abstr.) **(Ger)**

[Apparent wall shear rate and leukocyte–endothelium interaction in iris blood vessels in endotoxin–induced uveitis] Baatz H, et al. **Ophthalmologe** 1996 Dec; 93(6):749–53 (Eng. Abstr.) **(Ger)**

[Frequency of verocytotoxin 2 (VT2) neutralizing activity in human sera] Fujii N, et al. **Kansenshogaku Zasshi** 1997 Apr;71(4):348–9 **(Jpn)**

[Targeted action proteins as potential drugs] Anisimova VA, et al. **Vestn Ross Akad Med Nauk** 1997;(6):52–9 (88 ref.) (Eng. Abstr.) **(Rus)**

[Elucidation of functionally active domains in molecules of protective antigen bacillus anthracis's toxin] Noskov AN, et al. **Vestn Ross Akad Med Nauk** 1997;(6):20–4 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Bacteria, molds, and toxins in water–damaged building materials. Andersson MA, et al. **Appl Environ Microbiol** 1997 Feb;63(2):387–93

Purification and some properties of Clostridium sporogenes hemorrhagic toxin. Hara–Kudo Y, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):413–8

Detection of a vacuolating cytotoxin in stools from children with diarrhea. Luzzi I, et al. **Clin Infect Dis** 1996 Jul; 23(1):101–6

Isolation of Shiga–like toxin producing Escherichia coli (O157 and non–O157) in a community hospital. Park CH, et al. **Diagn Microbiol Infect Dis** 1996 Oct;26(2):69–72

Role of culture and toxin detection in laboratory testing for diagnosis of Clostridium difficile–associated diarrhea. Peterson LR, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):330–6

Purification and identification of Haemophilus ducreyi cytotoxin by use of a neutralizing monoclonal antibody. Purvén M, et al. **Infect Immun** 1997 Aug;65(8):3496–9

Chemiluminescent enzyme immunoassay for detection of PCR–amplified enterotoxin A from Clostridium perfringens. Baez LA, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):145–58

Staphylococcus hyicus exfoliative toxin: purification and demonstration of antigenic diversity among toxins from virulent strains. Andresen LO, et al. **Microb Pathog** 1997 Feb;22(2):113–22

Purification of recombinant shiga–like toxin type I B subunit. Austin PR, et al. **Protein Expr Purif** 1995 Dec;6(6):771–9

Purification of Staphylococcus aureus beta–toxin: comparison of three isoelectric focusing methods. Gaskin DK, et al. **Protein Expr Purif** 1997 Feb;9(1):76–82

Expression and purification of anthrax toxin protective antigen from Escherichia coli. Sharma M, et al. **Protein Expr Purif** 1996 Feb;7(1):33–8

Detection of an anatoxin–a(s)–like anticholinesterase in natural blooms and cultures of cyanobacteria/blue–green algae from Danish lakes and in the stomach contents of poisoned birds. Henriksen P, et al. **Toxicon** 1997 Jun; 35(6):901–13

Isolation and identification of 12 microcystins from four strains and two bloom samples of Microcystis spp.: structure of a new hepatotoxin. Luukkainen R, et al. **Toxicon** 1994 Jan;32(1):133–9

[Evaluation of a latex agglutination method for detecting and characterizing verotoxin (VT) produced by Escherichia coli] Kai A, et al. **Kansenshogaku Zasshi** 1997 Mar; 71(3):248–54 (Eng. Abstr.) **(Jpn)**

[Detection of the functionally active domains in the molecule of protective antigen of the anthrax exotoxin] Noskov AN, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul–Sep;(3):16–20 (Eng. Abstr.) **(Rus)**

[Detection of the functionally active domains in the molecule of the lethal factor of the anthrax exotoxin] Noskov AN, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul–Sep;(3):20–2

BACTERIAL TOXINS

(Eng. Abstr.) **(Rus)**

METABOLISM

Intracellular transport and processing of protein toxins produced by enteric bacteria. Sandvig K, et al. **Adv Exp Med Biol** 1997;412:225–32 (48 ref.)

Signal transduction pathways via guanylin and uroguanylin in stomach and intestine. London RM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G93–105

Enzymatic pathway for the bacterial degradation of the cyanobacterial cyclic peptide toxin microcystin LR. Bourne DG, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4086–94

Altered binding of the Cry1Ac toxin to larval membranes but not to the toxin-binding protein in Plodia interpunctella selected for resistance to different Bacillus thuringiensis isolates. Mohammed SI, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4168–73

Comparison of the beta-toxins from Staphylococcus aureus and Staphylococcus intermedius. Dziewanowska K, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):102–8

Difference in protein substrate specificity between hemorrhagic toxin and lethal toxin from Clostridium sordellii. Genth H, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):370–4

Purification and some properties of Clostridium sporogenes hemorrhagic toxin. Hara-Kudo Y, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):413–8

The ras-related protein Ral is monoglucosylated by Clostridium sordellii lethal toxin. Hofmann F, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):77–81

Helicobacter pylori vacuolating cytotoxin binds to the 140-kDa protein in human gastric cancer cell lines, AZ-521 and AGS. Yahiro K, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):629–32

Investigation into the catalytic role for the tryptophan residues within domain III of Pseudomonas aeruginosa exotoxin A. Beattie BK, et al. **Biochemistry** 1996 Dec 3; 35(48):15134–42

Accumulating evidence suggests that several AB-toxins subvert the endoplasmic reticulum-associated protein degradation pathway to enter target cells. Hazes B, et al. **Biochemistry** 1997 Sep 16;36(37):11051–4 (48 ref.)

A biotinylated perfringolysin O derivative: a new probe for detection of cell surface cholesterol. Iwamoto M, et al. **Biochim Biophys Acta** 1997 Jul 25;1327(2):222–30

Immobilization of reducing sugars as toxin binding agents. Nilsson UJ, et al. **Bioconjug Chem** 1997 Jul-Aug; 8(4):466–71

Unexpected carbohydrate cross-binding by Escherichia coli heat-labile enterotoxin. Recognition of human and rabbit target cell glycoconjugates in comparison with cholera toxin. Karlsson KA, et al. **Bioorg Med Chem** 1996 Nov; 4(11):1919–28

Two distinct binding sites for globotriaosyl ceramide on verotoxins: identification by molecular modelling and confirmation using deoxy analogues and a new glycolipid receptor for all verotoxins [published erratum appears in Chem Biol 1996 Jan;3(1):503] Nyholm PG, et al. **Chem Biol** 1996 Apr;3(4):263–75

Aerolysin and pertussis toxin share a common receptor-binding domain. Rossjohn J, et al. **EMBO J** 1997 Jun;16(12):3426–34

Hemolytic uremic syndrome due to shiga-like toxin producing Escherichia coli 048:H21 in South Australia. Goldwater PN, et al. **Emerg Infect Dis** 1995 Oct-Dec; 1(4):132–3

The stimulating effect of fosfomycin, an antibiotic in common use in Japan, on the production/release of verotoxin-1 from enterohaemorrhagic Escherichia coli O157:H7 in vitro. Yoh M, et al. **Epidemiol Infect** 1997 Aug;119(1):101–3

Contribution of individual tryptophan residues to the structure and activity of theta-toxin (perfringolysin O), a cholesterol-binding cytolysin. Sekino-Suzuki N, et al. **Eur J Biochem** 1996 Nov 1;241(3):941–7

Binding kinetics of Bacillus sphaericus binary toxin to midgut brush-border membranes of Anopheles and Culex sp. mosquito larvae. Silva-Filha MH, et al. **Eur J Biochem** 1997 Aug 1;247(3):754–61

Evidence that Arg-295, Glu-378, and Glu-380 are active-site residues of the ADP-ribosyltransferase activity of iota toxin. Perelle S, et al. **FEBS Lett** 1996 Oct 21; 395(2-3):191–4

Restriction of intramolecular movements within the Cry1Aa toxin molecule of Bacillus thuringiensis through disulfide bond engineering. Schwartz JL, et al. **FEBS Lett** 1997 Jun 30;410(2-3):397–402

Assembly of Staphylococcus aureus gamma-hemolysin into a pore-forming ring-shaped complex on the surface of human erythrocytes. Sugawara N, et al. **FEBS Lett** 1997 Jun 30;410(2-3):333–7

Production of the beta-subunit of human chorionic gonadotropin in Escherichia coli and its export mediated by the heat-labile enterotoxin chain-B signal sequence. Pillai D, et al. **Gene** 1996 Sep 16;173(2):271–4

Hydrogen sulphide: a bacterial toxin in ulcerative colitis? Pitcher MC, et al. **Gut** 1996 Jul;39(1):1–4 (86 ref.)

Association of RTX toxins with erythrocytes. Bauer ME, et al. **Infect Immun** 1996 Nov;64(11):4665–72

Localization of intravenously administered verocytotoxins (Shiga-like toxins) 1 and 2 in rabbits immunized with homologous and heterologous toxoids and toxin subunits. Bielaszewska M, et al. **Infect Immun** 1997 Jul;65(7):2509–16

SlyA, a transcriptional regulator of Salmonella typhimurium, is required for resistance to oxidative stress and is expressed in the intracellular environment of macrophages. Buchmeier N, et al. **Infect Immun** 1997 Sep;65(9):3725–30

Interaction of Escherichia coli heat-stable enterotoxin B with cultured human intestinal epithelial cells. Chao KL, et al. **Infect Immun** 1997 Aug;65(8):3209–17

Binding and internalization of the Helicobacter pylori vacuolating cytotoxin by epithelial cells. Garner JA, et al. **Infect Immun** 1996 Oct;64(10):4197–203

A role for PACE4 in the proteolytic activation of anthrax toxin protective antigen. Gordon VM, et al. **Infect Immun** 1997 Aug;65(8):3370–5

Channel-forming activity and channel size of the RTX toxins ApxI, ApxII, and ApxIII of Actinobacillus pleuropneumoniae. Maier E, et al. **Infect Immun** 1996 Nov; 64(11):4415–23

Specific roles of alpha-toxin and beta-toxin during Staphylococcus aureus corneal infection. O'Callaghan RJ, et al. **Infect Immun** 1997 May;65(5):1571–8

Luminal proteinases from Plodia interpunctella and the hydrolysis of Bacillus thuringiensis CryIA(c) protoxin. Oppert B, et al. **Insect Biochem Mol Biol** 1996 Jun; 26(6):571–83

Investigation of ribosome binding by the Shiga toxin A1 subunit, using competition and site-directed mutagenesis. Skinner LM, et al. **J Bacteriol** 1997 Feb;179(4):1368–74

Extracellular secretion of Escherichia coli heat-stable enterotoxin I across the outer membrane. Yamanaka H, et al. **J Bacteriol** 1997 Jun;179(11):3383–90

Role of the disulfide bond in Shiga toxin A-chain for toxin entry into cells. Garred O, et al. **J Biol Chem** 1997 Apr 25;272(17):11414–9

Localization of the glucosyltransferase activity of Clostridium difficile toxin B to the N-terminal part of the holotoxin. Hofmann F, et al. **J Biol Chem** 1997 Apr 25; 272(17):11074–8

Retrograde transport of KDEL-bearing B-fragment of Shiga toxin. Johannes L, et al. **J Biol Chem** 1997 Aug 1; 272(31):19554–61

Cytotoxic necrotizing factor 1 from Escherichia coli and dermonecrotic toxin from Bordetella bronchiseptica induce p21(rho)-dependent tyrosine phosphorylation of focal adhesion kinase and paxillin in Swiss 3T3 cells. Lacerda HM, et al. **J Biol Chem** 1997 Apr 4;272(14):9587–96

Proteolytic activation of cholera toxin and Escherichia coli labile toxin by entry into host epithelial cells. Signal transduction by a protease-resistant toxin variant. Lencer WI, et al. **J Biol Chem** 1997 Jun 13;272(24):15562–8

Studies on the energetics of proaerolysin secretion across the outer membrane of Aeromonas species. Evidence for a requirement for both the protonmotive force and ATP. Letellier L, et al. **J Biol Chem** 1997 Apr 25; 272(17):11109–13

The glycosylphosphatidylinositol-anchored surface glycoprotein Thy-1 is a receptor for the channel-forming toxin aerolysin. Nelson KL, et al. **J Biol Chem** 1997 May 2;272(18):12170–4

Conformational changes due to membrane binding and channel formation by staphylococcal alpha-toxin. Vécsey-Semjén B, et al. **J Biol Chem** 1997 Feb 28; 272(9):5709–17

Acid-induced dissociation of VacA, the Helicobacter pylori vacuolating cytotoxin, reveals its pattern of assembly. Cover TL, et al. **J Cell Biol** 1997 Aug 25;138(4):759–69

Evaluation of the premier EHEC assay for detection of Shiga toxin-producing Escherichia coli. Kehl KS, et al. **J Clin Microbiol** 1997 Aug;35(8):2051–4

Isolation of verotoxin-producing Escherichia coli O-rough:K1:H7 from two patients with traveler's diarrhea. Vila J, et al. **J Clin Microbiol** 1997 Sep;35(9):2279–82

Adherence, invasion and cytotoxin assay of Campylobacter jejuni in HeLa and HEp-2 cells. Prasad KN, et al. **J Diarrhoeal Dis Res** 1996 Dec;14(4):255–9

Interactions of Bacillus thuringiensis crystal proteins with the midgut epithelial cells of Spodoptera frugiperda (Lepidoptera: Noctuidae). Aranda E, et al. **J Invertebr Pathol** 1996 Nov;68(3):203–12

Simulation of protein-sugar interactions: a computational model of the complex between ganglioside GM1 and the heat-labile enterotoxin of Escherichia coli. Bernardi A, et al. **J Med Chem** 1997 Jun 6;40(12):1855–62

Diarrhea in young children associated with Escherichia coli non-O157 organisms that produce Shiga-like toxin. Huppertz HI, et al. **J Pediatr** 1996 Mar;128(3):341–6

Synthesis, maturation and export of the E. coli hemolysin. Koronakis V, et al. **Med Microbiol Immunol (Berl)** 1996 Sep;185(2):65–71 (55 ref.)

Pore-forming properties of proteolytically nicked staphylococcal alpha-toxin: the ion channel in planar lipid bilayer membranes. Krasilnikov OV, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):53–61

Structural basis for differential receptor binding of cholera and Escherichia coli heat-labile toxins: influence of heterologous amino acid substitutions in the cholera B-subunit. Bäckström M, et al. **Mol Microbiol** 1997 May; 24(3):489–97

Pseudomonas exotoxin exhibits increased sensitivity to furin when sequences at the cleavage site are mutated to resemble the arginine-rich loop of diphtheria toxin. Chiron MF, et al. **Mol Microbiol** 1996 Nov;22(4):769–78

Phenylalanine 30 plays an important role in receptor binding of verotoxin-1. Clark C, et al. **Mol Microbiol** 1996 Feb; 19(4):891–9

A TonB-like protein and a novel membrane protein containing an ATP-binding cassette function together in exotoxin secretion. Howard SP, et al. **Mol Microbiol** 1996 Nov;22(4):595–604

Molecular localization of the Escherichia coli cytotoxic necrotizing factor CNF1 cell-binding and catalytic domains. Lemichez E, et al. **Mol Microbiol** 1997 Jun; 24(5):1061–70

Aerolysin--the ins and outs of a model channel-forming toxin. Parker MW, et al. **Mol Microbiol** 1996 Jan; 19(2):205–12 (46 ref.)

A new cytolethal distending toxin (CDT) from Escherichia coli producing CNF2 blocks HeLa cell division in G2/M phase. Pérès SY, et al. **Mol Microbiol** 1997 Jun; 24(5):1095–107

The propeptide of Clostridium septicum alpha toxin functions as an intramolecular chaperone and is a potent inhibitor of alpha toxin-dependent cytolysis. Sellman BR, et al. **Mol Microbiol** 1997 Aug;25(3):429–40

Anthrax toxin-mediated delivery of a cytotoxic T-cell epitope in vivo. Ballard JD, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12531–4

Internalization and translocation of a new chimeric protein composed of Pseudomonas aeruginosa exotoxin A and mouse dihydrofolate reductase as a model system [published erratum appears in Protein Eng 1996 Dec;9(12):1247] Guidi-Rontani C. **Protein Eng** 1996 Jul; 9(7):611–6

The structure of Staphylococcus aureus epidermolytic toxin A, an atypic serine protease, at 1.7 A resolution. Cavarelli J, et al. **Structure** 1997 Jun 15;5(6):813–24

14C-labeled microcystin-LR administered to Atlantic salmon via intraperitoneal injection provides in vivo evidence for covalent binding of microcystin-LR in salmon livers. Williams DE, et al. **Toxicon** 1997 Jun;35(6):985–9

Multivalent binding of toxin A from Clostridium difficile to carbohydrate receptors. Wolfhagen MJ, et al. **Toxicon** 1994 Jan;32(1):129–32

Adaptation of a conjugal transfer system for the export of pathogenic macromolecules. Winans SC, et al. **Trends Microbiol** 1996 Feb;4(2):64–8 (46 ref.)

Sheep as a potential source of verocytotoxin-producing Escherichia coli O157 [letter] Chapman PA, et al. **Vet Rec** 1996 Jan 6;138(1):23–4

[Evaluation of antibiotics used for enterohemorrhagic Escherichia coli O157 enteritis--effect of various antibiotics on extracellular release of verotoxin] Ito T, et al. **Kansenshogaku Zasshi** 1997 Feb;71(2):130–5 (Eng. Abstr.) **(Jpn)**

[Yersinia pestis "muscle" toxin: some enzyme activities] Mishan'kin MB, et al. **Biull Eksp Biol Med** 1995 Dec; 120(12):602–5 **(Rus)**

PHARMACOKINETICS

Transfer of cytokine-inducing bacterial products across hemodialyzer membranes in the presence of plasma or whole blood. Pereira BJ, et al. **Clin Nephrol** 1996 Dec; 46(6):394–401

Endocytosis, intracellular transport, and cytotoxic action of Shiga toxin and ricin. Sandvig K, et al. **Physiol Rev** 1996 Oct;76(4):949–66 (235 ref.)

PHARMACOLOGY

Water permeability properties of the human small intestine in vitro: effects of Escherichia coli heat-stable enterotoxin. Ibarra C, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996; 46(3):159–67

The insecticidal proteins of Bacillus thuringiensis. Kumar PA, et al. **Adv Appl Microbiol** 1996;42:1–43 (311 ref.)

Stimulation of gastric acid secretion by cAMP in a novel alpha-toxin-permeabilized gland model. Yao X, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C61–73

Synthesis of 4- and 5-series leukotrienes in the lung microvasculature challenged with Escherichia coli hemolysin: critical dependence on exogenous free fatty acid supply. Grimminger F, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):317–24

In vitro antifungal and fungicidal activities and erythrocyte toxicities of cyclic lipodepsinonapeptides produced by Pseudomonas syringae pv. syringae. Sorensen KN, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2710–3

Effect of Bacillus thuringiensis toxins on the membrane potential of lepidopteran insect midgut cells. Peyronnet O, et al. **Appl Environ Microbiol** 1997 May;63(5):1679–84

Inhibition of mouse liver cytochrome P-450 by gram-negative bacteria lipopolysaccharides. Kaca W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):39–44

Inhibitory effect of acyl-CoA and acyl-carnitine compounds on the ischemia-inducing activity of Bordetella heat-labile toxin in guinea pig skin. Nagai M, et al. **Biol Pharm Bull** 1997 Feb;20(2):193–5

Positive selection of recombinant DNA by CcdB. Bernard P. **Biotechniques** 1996 Aug;21(2):320–3

Megakaryocytic cell line-specific hyperploidy by cytotoxic necrotizing factor bacterial toxins. Hudson KM, et al. **Blood** 1996 Nov 1;88(9):3465–73

Stimulation of osteoclast-like cell formation by Pasteurella multocida toxin from hemopoietic progenitor cells in mouse

bone marrow cultures. Jutras I, et al. **Can J Vet Res** 1996 Jan;60(1):34–9

Immunogenicity of a 24–valent Klebsiella capsular polysaccharide vaccine and an eight–valent Pseudomonas O–polysaccharide conjugate vaccine administered to victims of acute trauma. Campbell WN, et al. **Clin Infect Dis** 1996 Jul;23(1):179–81

Analysis of the large aqueous pores produced by a Bacillus thuringiensis protein insecticide in Manduca sexta midgut–brush–border–membrane vesicles. Carroll J, et al. **Eur J Biochem** 1997 May 1;245(3):797–804

Restoration of Clostridium difficile toxin–B–inhibited phospholipase D by phosphatidylinositol 4,5–bisphosphate. Schmidt M, et al. **Eur J Biochem** 1996 Sep 15;240(3):707–12

Uncoupling of S–phase and mitosis by recombinant cytotoxic necrotizing factor 2 (CNF2). Denko N, et al. **Exp Cell Res** 1997 Jul 10;234(1):132–8

Bacterial protein toxins and cell vesicle trafficking. Montecucco C, et al. **Experientia** 1996 Dec 15; 52(12):1026–32 (91 ref.)

Dual regulation of heat–stable enterotoxin–mediated cGMP accumulation in T84 cells by receptor desensitization and increased phosphodiesterase activity. Bakre MM, et al. **FEBS Lett** 1997 May 26;408(3):345–9

El Tor hemolysin of Vibrio cholerae O1 forms channels in planar lipid bilayer membranes. Ikigai H, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):249–54

Bromelain prevents secretion caused by Vibrio cholerae and Escherichia coli enterotoxins in rabbit ileum in vitro. Mynott TL, et al. **Gastroenterology** 1997 Jul;113(1):175–84

Probing the mechanism of action of Bacillus thuringiensis insecticidal proteins by site–directed mutagenesis—a minireview. Dean DH, et al. **Gene** 1996 Nov 7;179(1):111–7 (25 ref.)

Effect of shigella enterotoxin 1 (ShET1) on rabbit intestine in vitro and in vivo. Fasano A, et al. **Gut** 1997 Apr; 40(4):505–11

A recombinant GM–CSF–PE40 ligand toxin is functionally active but not cytotoxic to cells. O'Brien P, et al. **Immunol Cell Biol** 1997 Jun;75(3):289–94

Uncovered: the family relationship of a T–cell–membrane protein and bacterial toxins. Koch–Nolte F, et al. **Immunol Today** 1996 Sep;17(9):402–5 (30 ref.)

The involvement of macrophage–derived tumour necrosis factor and lipoxygenase products on the neutrophil recruitment induced by Clostridium difficile toxin B. Souza MH, et al. **Immunology** 1997 Jun;91(2):281–8

Effect of insecticidal crystal proteins of Bacillus thuringiensis on human erythrocytes in vitro. Rani SS, et al. **Indian J Exp Biol** 1996 Dec;34(12):1241–4

Effect of cytolethal distending toxin on F–actin assembly and cell division in Chinese hamster ovary cells. Aragon V, et al. **Infect Immun** 1997 Sep;65(9):3774–80

Porins of Pseudomonas aeruginosa induce release of tumor necrosis factor alpha and interleukin–6 by human leukocytes. Cusumano V, et al. **Infect Immun** 1997 May; 65(5):1683–7

Intravenous immunoglobulin inhibits staphylococcal toxin–induced human mononuclear phagocyte tumor necrosis factor alpha production. Darville T, et al. **Infect Immun** 1997 Feb;65(2):366–72

The Bacteroides fragilis toxin fragilysin disrupts the paracellular barrier of epithelial cells. Obiso RJ Jr, et al. **Infect Immun** 1997 Apr;65(4):1431–9

Effects of Clostridium difficile toxin A and toxin B on phospholipase D activation in human promyelocytic leukemic HL60 cells. Ohguchi K, et al. **Infect Immun** 1996 Nov;64(11):4433–7

Clostridium difficile toxin A induces the release of neutrophil chemotactic factors from rat peritoneal macrophages: role of interleukin–1beta, tumor necrosis factor alpha, and leukotrienes. Rocha MF, et al. **Infect Immun** 1997 Jul; 65(7):2740–6

Escherichia coli cytotoxic necrotizing factor 1 (CNF1), a toxin that activates the Rho GTPase. Fiorentini C, et al. **J Biol Chem** 1997 Aug 1;272(31):19532–7

Adenocarcinoma cells are targeted by the new GnRH–PE66 chimeric toxin through specific gonadotropin–releasing hormone binding sites. Nechushtan A, et al. **J Biol Chem** 1997 Apr 25;272(17):11597–603

Interruption of Escherichia coli heat–stable enterotoxin–induced guanylyl cyclase signaling and associated chloride current in human intestinal cells by 2–chloroadenosine. Parkinson SJ, et al. **J Biol Chem** 1997 Jan 10;272(2):754–8

Pasteurella multocida toxin activates the inositol triphosphate signaling pathway in Xenopus oocytes via G(q)alpha–coupled phospholipase C–beta1. Wilson BA, et al. **J Biol Chem** 1997 Jan 10;272(2):1268–75

Bacterial toxins that target Rho proteins. Aktories K. **J Clin Invest** 1997 Mar 1;99(5):827–9 (10 ref.)

Induction of psoriasiform inflammation by a bacterial superantigen in the SCID–hu xenogeneic transplantation model. Boehncke WH, et al. **J Cutan Pathol** 1997 Jan; 24(1):1–7

Escherichia coli hemolysin and Staphylococcus aureas alpha–toxin potently induce neutrophil adhesion to cultured human endothelial cells. Krüll M, et al. **J Immunol** 1996 Nov 1;157(9):4133–40

Staphylococcal toxins and protein A differentially induce cytotoxicity and release of tumor necrosis factor–alpha from human keratinocytes. Ezepchuk YV, et al. **J Invest Dermatol** 1996 Oct;107(4):603–9

Comparison of effects of uroguanylin, guanylin, and Escherichia coli heat–stable enterotoxin STa in mouse intestine and kidney: evidence that uroguanylin is an intestinal natriuretic hormone. Greenberg RN, et al. **J Investig Med** 1997 Jun;45(5):276–82

Influence of Cys–130 S. aureus alpha–toxin on planar lipid bilayer and erythrocyte membranes. Krasilnikov OV, et al. **J Membr Biol** 1997 Mar 15;156(2):157–72

Effects of epidermal growth factor and Clostridium difficile toxin B in a model of mucosal injury. Lawrence JP, et al. **J Pediatr Surg** 1997 Mar;32(3):430–3

Effect of hemorrhagic toxin produced by Clostridium sporogenes on rabbit ligated intestinal loop. Hara–Kudo Y, et al. **Microb Pathog** 1997 Jan;22(1):31–8

Importance of glycolipid synthesis for butyric acid–induced sensitization to shiga toxin and intracellular sorting of toxin in A431 cells. Sandvig K, et al. **Mol Biol Cell** 1996 Sep; 7(9):1391–404

Role of macrophage oxidative burst in the action of anthrax lethal toxin. Hanna PC, et al. **Mol Med** 1994 Nov;1(1):7–18

Generation of a membrane–bound, oligomerized pre–pore complex is necessary for pore formation by Clostridium septicum alpha toxin. Sellman BR, et al. **Mol Microbiol** 1997 Feb;23(3):551–8

Inhibition by toxin B of inositol phosphate formation induced by G protein–coupled and tyrosine kinase receptors in N1E–115 neuroblastoma cells: involvement of Rho proteins. Zhang C, et al. **Mol Pharmacol** 1996 Oct; 50(4):864–9

Toxin–induced activation of the G protein p21 Rho by deamidation of glutamine. Flatau G, et al. **Nature** 1997 Jun 12;387(6634):729–33

Gln 63 of Rho is deamidated by Escherichia coli cytotoxic necrotizing factor–1. Schmidt G, et al. **Nature** 1997 Jun 12;387(6634):725–9

A role for Rho in receptor– and G protein–stimulated phospholipase C. Reduction in phosphatidylinositol 4,5–bisphosphate by Clostridium difficile toxin B. Schmidt M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):87–94

ADP–ribosylation of actin by Clostridium perfringens iota toxin and turkey erythrocyte ADP–ribosyltransferase A: effects on profilin–regulated nucleotide exchange and ATPase activity. Sehr P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):693–7

Effects of Clostridium difficile toxin B on activation of rat peritoneal mast cells. Wex CB, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):328–34

Bacterial endotoxin inhibits LHRH secretion following the increased release of hypothalamic GABA levels. Different effects on amino acid neurotransmitter release. Feleder C, et al. **Neuroimmunomodulation** 1996 Nov–Dec;3(6):342–51

Effects of bacterial endotoxin on the glucocorticoid feedback regulation of adrenocortical response to stress. Weidenfeld J, et al. **Neuroimmunomodulation** 1996 Nov–Dec;3(6):352–7

Response of amoeboid and ramified microglial cells to lipopolysaccharide injections in postnatal rats—a lectin and ultrastructural study. Wu CH, et al. **Neurosci Res** 1997 Feb; 27(2):133–41

The effect of enteric bacterial toxins on the catecholamine levels of the rabbit. Siarakas S, et al. **Pathology** 1997 Aug; 29(3):278–85

Release of serotonin from RBL–2H3 cells by the Escherichia coli peptide toxin STb. Harville BA, et al. **Peptides** 1996; 17(3):363–6

Mechanism that regulates nitric oxide production by lipopolysaccharide–stimulated rat Kupffer cells. Ikeda K, et al. **Physiol Chem Phys Med NMR** 1996;28(4):239–53

Peptide–specific killing of antigen–presenting cells by a recombinant antibody–toxin fusion protein targeted to major histocompatibility complex/peptide class I complexes with T cell receptor–like specificity. Reiter Y, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4631–6

The effect of bacterial toxins on levels of intracellular adenosine nucleotides and human ciliary beat frequency. Kanthakumar K, et al. **Pulm Pharmacol** 1996 Aug; 9(4):223–30

Inhibitory effects of Microcystis aeruginosa toxin on ion pumps of the gill of freshwater fish. Gaete V, et al. **Toxicon** 1994 Jan;32(1):121–7

Rho proteins: targets for bacterial toxins. Aktories K. **Trends Microbiol** 1997 Jul;5(7):282–8 (41 ref.)

Clostridium difficile toxins attack Rho. Wilkins TD, et al. **Trends Microbiol** 1996 Feb;4(2):49–51 (17 ref.)

Effect of Pasteurella multocida toxin on in vivo immune responses in piglets. van Diemen PM, et al. **Vet Q** 1996 Dec;18(4):141–6

[Self–inhibiting N–glycosidase activity of shigella toxin] Polesskaia AN, et al. **Mol Biol (Mosk)** 1997 May–Jun; 31(3):528–35 **(Rus)**

POISONING

Staphylococcal toxins and protein A differentially induce cytotoxicity and release of tumor necrosis factor–alpha from human keratinocytes. Ezepchuk YV, et al. **J Invest Dermatol** 1996 Oct;107(4):603–9

Fulminant liver failure in association with the emetic toxin of Bacillus cereus [see comments] Mahler H, et al. **N Engl J Med** 1997 Apr 17;336(16):1142–8. Comment in: N Engl J Med 1997 Apr 17;336(16):1173–4.

Power failure, liver failure [editorial; comment] Schafer DF, et al. **N Engl J Med** 1997 Apr 17;336(16):1173–4. Comment on: N Engl J Med 1997 Apr 17;336(16):1142–8.

RADIATION EFFECTS

Degradation of the cyanobacterial hepatotoxin, nodularin, under light and dark conditions. Twist H, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):83–8

THERAPEUTIC USE

Preclinical development of a recombinant toxin containing circularly permuted interleukin 4 and truncated Pseudomonas exotoxin for therapy of malignant astrocytoma. Puri RK, et al. **Cancer Res** 1996 Dec 15; 56(24):5631–7

Prevention of autoimmune disease due to lymphocyte modulation by the B–subunit of Escherichia coli heat–labile enterotoxin. Williams NA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5290–5

TOXICITY

Neuronal and vascular pathology produced by verocytotoxin 2 in the rabbit central nervous system. Mizuguchi M, et al. **Acta Neuropathol (Berl)** 1996;91(3):254–62

Interaction of Escherichia coli producing cytotoxic necrotizing factor with HeLa epithelial cells. De Rycke J, et al. **Adv Exp Med Biol** 1997;412:363–6

Anti–Clostridium difficile bovine immunoglobulin concentrate inhibits cytotoxicity and enterotoxicity of C. difficile toxins. Kelly CP, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):373–9

Involvement of two amino acid residues in the loop region of Bacillus thuringiensis Cry1Ab toxin in toxicity and binding to Lymantria dispar. Lee MK, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):139–46

The cytotoxic activity of Bacillus anthracis lethal factor is inhibited by leukotriene A4 hydrolase and metallopeptidase inhibitors. Menard A, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):687–91

Calcium and protein kinase C play a significant role in response to Shigella toxin in rabbit ileum both in vivo and in vitro. Kaur T, et al. **Biochim Biophys Acta** 1997 Jul 10; 1361(1):75–91

An improved circularly permuted interleukin 4–toxin is highly cytotoxic to human renal cell carcinoma cells. Introduction of gamma c chain in RCC cells does not improve sensitivity. Puri RK, et al. **Cell Immunol** 1996 Jul 10;171(1):80–6

Shiga toxin–producing Escherichia coli serotype OX3:H21 as a cause of hemolytic–uremic syndrome. Keskimäki M, et al. **Clin Infect Dis** 1997 Jun;24(6):1278–9; discussion 1280–2

The mucosal adjuvant activities of ADP–ribosylating bacterial enterotoxins. Snider DP. **Crit Rev Immunol** 1995; 15(3–4):317–48 (276 ref.)

The small GTP binding protein rab7 is essential for cellular vacuolation induced by Helicobacter pylori cytotoxin. Papini E, et al. **EMBO J** 1997 Jan 2;16(1):15–24

Bordetella bronchiseptica dermonecrotizing toxin, which activates a small GTP–binding protein rho, induces membrane organelle proliferation and caveolae formation. Senda T, et al. **Exp Cell Res** 1997 Jan 10;230(1):163–8

Shiga toxin induces medullary tubular injury in isolated perfused rat kidneys. Shibolet O, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):55–60

Expression of P, S, and F1C adhesins by cytotoxic necrotizing factor 1–producing Escherichia coli from septicemic and diarrheic pigs. Dozois CM, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):307–12

Histidine–44 of the A subunit of Escherichia coli enterotoxin is involved in its enzymatic and biological activities. Kato M, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):219–25

Pseudomonas tolaasii: extra–genomic factor mediates toxin production and efficiency. Mamoun M, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):215–9

Vacuolating cytotoxic activity of Pasteurella multocida causing haemorrhagic septicaemia in buffalo and cattle. Shah NH, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):97–101

Assessment of aspects of the toxicity of Clostridium perfringens epsilon–toxin using the MDCK cell line. Lindsay CD. **Hum Exp Toxicol** 1996 Nov;15(11):904–8

Toxigenicity of Edwardsiella tarda isolates of fish and pig origin in experimental models. Singh BR, et al. **Indian J Exp Biol** 1996 Dec;34(12):1254–6

Toxicity and immunogenicity of a verotoxin 1 mutant with reduced globotriaosylceramide receptor binding in rabbits. Bast DJ, et al. **Infect Immun** 1997 Jun;65(6):2019–28

Bacteroides fragilis toxin exhibits polar activity on monolayers of human intestinal epithelial cells (T84 cells) in vitro. Chambers FG, et al. **Infect Immun** 1997 Sep; 65(9):3561–70

Protease susceptibility and toxicity of heat–labile enterotoxins with a mutation in the active site or in the protease–sensitive loop. Giannelli V, et al. **Infect Immun** 1997 Jan;65(1):331–4

Human intestinal epithelial cells swell and demonstrate actin rearrangement in response to the metalloprotease toxin of Bacteroides fragilis. Koshy SS, et al. **Infect Immun** 1996 Dec;64(12):5022–8

BACTERIAL TOXINS

Sensitization of human umbilical vein endothelial cells to Shiga toxin: involvement of protein kinase C and NF-kappaB. Louise CB, et al. **Infect Immun** 1997 Aug; 65(8):3337–44

Examination of diarrheagenicity of cytolethal distending toxin: suckling mouse response to the products of the cdtABC genes of Shigella dysenteriae. Okuda J, et al. **Infect Immun** 1997 Feb;65(2):428–33

Bacteroides fragilis toxin rapidly intoxicates human intestinal epithelial cells (HT29/C1) in vitro. Saidi RF, et al. **Infect Immun** 1996 Dec;64(12):5029–34

The intratracheal administration of endotoxin: X. Dexamethasone downregulates neutrophil emigration and cytokine expression in vivo. Yi ES, et al. **Inflammation** 1996 Apr;20(2):165–75

Cytokine production by human peripheral blood mononuclear cells stimulated by a Pseudomonas aeruginosa culture filtrate: role of plasma and polymyxin B. Sundaram S, et al. **Int J Artif Organs** 1996 May;19(5):276–83

Production of diarrheal toxin by selected strains of Bacillus cereus. Fermanian C, et al. **Int J Food Microbiol** 1996 Jul; 30(3):345–58

Structure–function studies of the adenylate cyclase toxin of Bordetella pertussis and the leukotoxin of Pasteurella haemolytica by heterologous C protein activation and construction of hybrid proteins. Westrop G, et al. **J Bacteriol** 1997 Feb;179(3):871–9

Clostridium novyi alpha-toxin-catalyzed incorporation of GlcNAc into Rho subfamily proteins. Selzer J, et al. **J Biol Chem** 1996 Oct 11;271(41):25173–7

Possible lethal enhancement of toxins from putative periodontopathogens by nicotine: implications for periodontal disease. Sayers NM, et al. **J Clin Pathol** 1997 Mar;50(3):245–9

Effects of the intravenous administration of Clostridium perfringens type D epsilon toxin on young goats and lambs. Uzal FA, et al. **J Comp Pathol** 1997 Jan;116(1):63–71

Human endothelial cell activation and mediator release in response to the bacterial exotoxins Escherichia coli hemolysin and staphylococcal alpha-toxin. Grimminger F, et al. **J Immunol** 1997 Aug 15;159(4):1909–16

Escherichia coli O157: lessons from the past 15 years. Lansbury LE, et al. **J Infect** 1997 May;34(3):189–93

The role of lipopolysaccharide and Shiga-like toxin in a mouse model of Escherichia coli O157:H7 infection. Karpman D, et al. **J Infect Dis** 1997 Mar;175(3):611–20

Clostridial gas gangrene: evidence that alpha and theta toxins differentially modulate the immune response and induce acute tissue necrosis. Stevens DL, et al. **J Infect Dis** 1997 Jul;176(1):189–95

Electrophysiological effects of Bacillus sphaericus binary toxin on cultured mosquito cells. Cokmus C, et al. **J Invertebr Pathol** 1997 May;69(3):197–204

Toxin production by Burkholderia pseudomallei strains and correlation with severity of melioidosis. Haase A, et al. **J Med Microbiol** 1997 Jul;46(7):557–63

Characteristics of toxicity and haemorrhagic toxin produced by Clostridium sporogenes in various animals and cultured cells. Hara-Kudo Y, et al. **J Med Microbiol** 1997 Apr; 46(4):270–5

Comparative cytotoxicity of purified Shiga-like toxin-IIe on porcine and bovine aortic endothelial and human colonic adenocarcinoma cells. Valdivieso-Garcia A, et al. **J Med Microbiol** 1996 Nov;45(5):331–7

A comparison of febrile responses induced by LPS from E. coli and S. abortus in unrestrained rats placed in a thermal gradient. Bodurka M, et al. **J Physiol Pharmacol** 1997 Mar; 48(1):81–8

Physiological, immunohistochemical and molecular aspects of gastric adaptation to stress, aspirin and to H. pylori-derived gastrotoxins. Konturek PC. **J Physiol Pharmacol** 1997 Mar;48(1):3–42 (89 ref.)

Mouse lethal activity of a HEp-2 vacuolation factor, cereulide, produced by Bacillus cereus isolated from vomiting-type food poisoning. Shinagawa K, et al. **J Vet Med Sci** 1996 Oct;58(10):1027–9

Hemolytic uremic syndrome following hemorrhagic colitis caused by verotoxin-producing Escherichia coli 0157:H7: early signs of hemolytic uremic syndrome. Tsuji A, et al. **Keio J Med** 1996 Mar;45(1):44–7

Effects of TNF alpha on verocytotoxin cytotoxicity in purified human glomerular microvascular endothelial cells. van Setten PA, et al. **Kidney Int** 1997 Apr;51(4):1245–56

Schizophrenia, bacterial toxins and the genetics of redundancy. Morris JA. **Med Hypotheses** 1996 Apr; 46(4):362–6 (23 ref.)

Cytotoxic effects by microinjection of ADP-ribosylated skeletal muscle G-actin in PtK2 cells in the absence of Clostridium perfringens iota toxin. Kiefer G, et al. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):175–80

Enteric bacterial toxins: mechanisms of action and linkage to intestinal secretion. Sears CL, et al. **Microbiol Rev** 1996 Mar;60(1):167–215 (588 ref.)

Endotoxic properties of free lipid A from Porphyromonas gingivalis. Tanamoto K, et al. **Microbiology** 1997 Jan;143 (Pt 1):63–71

A mouse model for staphylococcal enterotoxins toxicity. Bhatti AR, et al. **Microbios** 1996;86(349):247–53

Endocytosis, intracellular transport, and cytotoxic action of Shiga toxin and ricin. Sandvig K, et al. **Physiol Rev** 1996 Oct;76(4):949–66 (235 ref.)

Suppression of enterotoxin-induced intestinal fluid secretion by wood creosote. Ataka K, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):219–24

Effect of endotoxin-enhanced hepatic reperfusion injury on endothelium-dependent relaxation in rat aorta. McKenna R, et al. **Shock** 1996 Aug;6(2):106–11

Hepatic and renal pathology of intraperitoneally administered microcystin-LR in rainbow trout (Oncorhynchus mykiss). Kotak BG, et al. **Toxicon** 1996 May;34(5):517–25

Role of tumor necrosis factor and nitric oxide in the cytotoxic effects of Clostridium difficile toxin A and toxin B on macrophages. Melo Filho AA, et al. **Toxicon** 1997 May; 35(5):743–52

Toxic effects of blooms of marine species of Oscillatoriales on farmed prawns (Penaeus monodon, Penaeus japonicus) and brine shrimp (Artemia salina). Smith PT. **Toxicon** 1996 Aug;34(8):857–69

Effect of staphylococcal beta toxin on the cytotoxicity, proliferation and adherence of Staphylococcus aureus to bovine mammary epithelial cells. Cifrian E, et al. **Vet Microbiol** 1996 Feb;48(3–4):187–98

[Brain lesions in rabbits given an intravenous injection of verotoxin 2 and protection by anti-VT2 antibody] Fujii J, et al. **Nippon Rinsho** 1997 Mar;55(3):736–40 (Eng. Abstr.) **(Jpn)**

[Verotoxin induced hemolytic uremic syndrome: pathophysiology of neurological involvement] Takagi C, et al. **Nippon Rinsho** 1997 Mar;55(3):731–5 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Primary tubular impairment by verocytotoxin in hemolytic uremic syndrome] Uchida H, et al. **Nippon Rinsho** 1997 Mar;55(3):726–30 (15 ref.) (Eng. Abstr.) **(Jpn)**

BACTERIAL TRANSLOCATION

Gut dysfunction in critically ill patients: a review of the literature. Stechmiller JK, et al. **Am J Crit Care** 1997 May; 6(3):204–9 (66 ref.)

Analysis of the role of invasin during Yersinia pseudotuberculosis infection of mice. Marra A, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:290–2

Bacterial translocation in surgical patients. MacFie J. **Ann R Coll Surg Engl** 1997 May;79(3):183–9 (19 ref.)

Bacterial translocation during portal clamping for liver resection. A clinical study. Ferri M, et al. **Arch Surg** 1997 Feb;132(2):162–5

Gastro-intestinal toxicity related to bone marrow transplantation: disruption of the intestinal barrier precedes clinical findings. Johansson JE, et al. **Bone Marrow Transplant** 1997 May;19(9):921–5

Gut barrier function in the surgical patient. Reynolds JV. **Br J Surg** 1996 Dec;83(12):1668–9

Bacterial translocation in D-galactosamine-treated rats in a burn model. Dijkstra HM, et al. **Burns** 1996 Feb;22(1):15–21

Inotropes and gut mucosal perfusion: a brake on the motor of multiple organ failure? [editorial; comment] Kumar A. **Crit Care Med** 1997 Aug;25(8):1266–7. Comment on: Crit Care Med 1997 Aug;25(8):1371–7.

Bacterial translocation in the course of acute pancreatitis: beneficial role of nonabsorbable antibiotics and lactitol enemas. Marotta F, et al. **Digestion** 1996 Nov–Dec; 57(6):446–52

Effect of resuscitation on bacterial translocation in haemorrhagic shocked rats [see comments] Erbil Y, et al. **East Afr Med J** 1996 Nov;73(11):699–702. Comment in: East Afr Med J 1996 Nov;73(11):697–8.

Plasma concentrations of endotoxin and antiendotoxin antibodies in patients with multiple injuries: a prospective clinical study. Buttenschoen K, et al. **Eur J Surg** 1996 Nov; 162(11):853–60

Effects of obstructive jaundice and external biliary diversion on bacterial translocation in rats [see comments] Cakmakci M, et al. **Eur J Surg** 1996 Jul;162(7):567–71. Comment in: Eur J Surg 1996 Jul;162(7):573–4.

Starvation increases the number of coliform bacteria in the caecum and induces bacterial adherence to caecal epithelium in rats. Nettelbladt CG, et al. **Eur J Surg** 1997 Feb;163(2):135–42

Obstructive jaundice and bacterial translocation [comment] Schöffel U. **Eur J Surg** 1996 Jul;162(7):573–4. Comment on: Eur J Surg 1996 Jul;162(7):567–71.

Role of the gut in the pathophysiology of extrahepatic biliary obstruction. Clements WD, et al. **Gut** 1996 Oct; 39(4):587–93

Influence of malnutrition on the prevalence of bacterial translocation and spontaneous bacterial peritonitis in experimental cirrhosis in rats. Casafont F, et al. **Hepatology** 1997 Jun;25(6):1334–7

Alterations in intestinal motility and microflora in experimental acute pancreatitis. Leveau P, et al. **Int J Pancreatol** 1996 Oct;20(2):119–25

Clostridium difficile infection as a cause of severe sepsis [see comments] Lowenkron SE, et al. **Intensive Care Med** 1996 Sep;22(9):990–4. Comment in: Intensive Care Med 1997 May;23(5):601.

Proceedings of the symposium on particle translocation across epithelial membranes. Belfast, July 1995. **J Anat** 1996 Dec;189 (Pt 3):475–565

The relationship between gut-derived bacteria and the development of the multiple organ dysfunction syndrome. Nieuwenhuijzen GA, et al. **J Anat** 1996 Dec;189 (Pt 3):537–48 (165 ref.)

Bacterial translocation and gut microflora in obstructive jaundice. Parks RW, et al. **J Anat** 1996 Dec;189 (Pt 3):561–5

Mild hypotension and body burns synergistically increase bacterial translocation in rats consistent with a "two-hit phenomenon". Mishima S, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):22–6

Effects of recombinant bactericidal, permeability-increasing protein on bacterial translocation and pulmonary neutrophil sequestration in burned mice. Rennekampff OH, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):17–21

Differences in IgM synthesis to gut bacterial peptidoglycan polysaccharide after burn injury and gut ischemia. Tabata T, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):231–6

Selective translocation of coliform bacteria adhering to caecal epithelium of rats during catabolic stress. Katouli M, et al. **J Med Microbiol** 1997 Jul;46(7):571–8

An in vitro model to assess mucosal immune function and bacterial translocation. Diebel LN, et al. **J Surg Res** 1997 Apr;69(1):178–82

Influence of selective decontamination of the digestive tract on cell-mediated immune function and bacteria/endotoxin translocation in thermally injured rats. Yao YM, et al. **J Trauma** 1997 Jun;42(6):1073–9

Migration of Salmonella typhi through intestinal epithelial monolayers: an in vitro study. Kops SK, et al. **Microbiol Immunol** 1996;40(11):799–811

Trauma, shock, and gut translocation. Deitch EA, et al. **New Horiz** 1996 May;4(2):289–99 (61 ref.)

High protein diets are associated with increased bacterial translocation in septic guinea pigs. Nelson JL, et al. **Nutrition** 1996 Mar;12(3):195–9

Acute treatment of constipation may lead to transmural migration of bacteria resulting in gram-negative, polymicrobial, or fungal peritonitis. Singharetnam W, et al. **Perit Dial Int** 1996 Jul–Aug;16(4):423–5

Gastrointestinal translocation as a possible source of candidemia in an AIDS patient. Colombo AL, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):197–200

Conversion by Peyer's patch lymphocytes of human enterocytes into M cells that transport bacteria [see comments] Kernéis S, et al. **Science** 1997 Aug 15; 277(5328):949–52. Comment in: Science 1997 Aug 15;277(5328):910–1.

Does pneumoperitoneum during laparoscopy increase bacterial translocation? Evasovich MR, et al. **Surg Endosc** 1996 Dec;10(12):1176–9

Laparoscopy and septic dissemination caused by perioperative perforation of the occluded small bowel: an experimental study. Bustos B, et al. **Surg Laparosc Endosc** 1997 Jun;7(3):228–31

Bacterial translocation as a cause of septic shock in humans: a report of two cases. Tani T, et al. **Surg Today** 1997; 27(5):447–9

Effects of granulocyte colony-stimulating factor on bacterial translocation due to burn wound sepsis. Yalçin O, et al. **Surg Today** 1997;27(2):154–8

Bacterial translocation and pulmonary infections in a swine model of small bowel transplantation: influence of enteral nutrition. Biffi R, et al. **Transplant Proc** 1996 Oct; 28(5):2662–3

Influence of macrophage depletion on bacterial translocation and rejection in small bowel transplantation. Fryer J, et al. **Transplant Proc** 1996 Oct;28(5):2660

Novel in vitro small intestinal graft model for study of bacterial translocation in the rat. Koh IH, et al. **Transplant Proc** 1996 Oct;28(5):2667–8

Can the portal vein be a conduit for bacterial translocation? Koh IH, et al. **Transplant Proc** 1996 Oct;28(5):2671

Can bacterial translocation to the mesenteric lymph node be correlated with systemic infection? Koh IH, et al. **Transplant Proc** 1996 Oct;28(5):2673

Small bowel flora and bacterial translocation in potential small bowel transplant donors. Muiesan P, et al. **Transplant Proc** 1996 Oct;28(5):2664–6

Role of Peyer's patch in bacterial translocation. Silva RM, et al. **Transplant Proc** 1996 Oct;28(5):2672

Bacterial translocation is enhanced in pig intestinal transplantation when the colon is included in the graft. Spada M, et al. **Transplant Proc** 1996 Oct;28(5):2658–9

Effect of gut-associated lymphoid tissue and bacterial translocation in newborn rabbits. Urao M, et al. **Transplant Proc** 1996 Oct;28(5):2674

Colonization and translocation of intestinal bacterial flora. Wells CL. **Transplant Proc** 1996 Oct;28(5):2653–6 (78 ref.)

[The changes in mucus components of intestine after burn and their relationship with bacterial translocation] Bai X, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):90–2 (Eng. Abstr.) **(Chi)**

[Intestinal lymphatic circulation is one of the important portals for microbial translocation after thermal injury] Peng Y, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):83–5 (Eng. Abstr.) **(Chi)**

[Enterogenous infections (editorial)] Xiao G. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):81–2 **(Chi)**

[An experimental study on injury of intestinal immuno-barrier in rat after scald] Yu Y, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):86–9 (Eng. Abstr.) **(Chi)**

[Bacterial translocation from the intestinal tract--the

phenomenon and its clinical significance] Assalia A, et al. **Harefuah** 1997 Jun 1;132(11):783–6 (39 ref.) **(Heb)**

[Bacterial translocation induces remnant liver injury after subtotal (90%) hepatectomy in rats—the effect of decontamination of gram-negative rods in digestive tract by oral polymyxin B treatment] Iso A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):544–52 (Eng. Abstr.) **(Jpn)**

[Bacterial translocation induces remnant liver injury after subtotal (90%) hepatectomy in rats (letter)] Mochida T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):570–1 **(Jpn)**

[Bacterial translocation in acute pancreatitis. Experimental study in rats] de Souza L, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul–Aug; 51(4):116–20 (Eng. Abstr.) **(Por)**

[Intestinal bacterial translocation] Llovet JM, et al. **Gastroenterol Hepatol** 1996 Aug–Sep;19(7):374–82 (110 ref.) **(Spa)**

[Bacterial translocation in a model of small intestine autotransplant in dogs] López F, et al. **Rev Med Chil** 1995 Dec;123(12):1453–60 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Inhibition of nitric oxide with aminoguanidine reduces bacterial translocation after endotoxin challenge in vivo. Sorrells DL, et al. **Arch Surg** 1996 Nov;131(11):1155–63

Effects of selective digestive decontamination on lung injury and outcome: the verdict is not yet in [editorial; comment] Dematte JE, et al. **Chest** 1997 Aug;112(2):304–6. Comment on: Chest 1997 Aug;112(2):491–5.

The effect of pretreatment with endotoxin and lactobacillus on bacterial translocation in acute liver injury. Kasravi FB, et al. **Eur J Surg** 1996 Jul;162(7):537–44

Effect of lactulose on bacterial translocation. Ozaslan C, et al. **Eur J Surg** 1997 Jun;163(6):463–7

The effect of vitamin C and vitamin E supplementation on bacterial translocation in chronic portal hypertensive and common-bile-duct-ligated rats. Schimpl G, et al. **Eur Surg Res** 1997;29(3):187–94

Dietary calcium inhibits the intestinal colonization and translocation of Salmonella in rats. Bovee-Oudenhoven IM, et al. **Gastroenterology** 1997 Aug;113(2):550–7

Effect of L-glutamine and n-butyrate on the restitution of rat colonic mucosa after acid induced injury. Scheppach W, et al. **Gut** 1996 Jun;38(6):878–85

Allopurinol and glutamine attenuate bacterial translocation in chronic portal hypertensive and common bile duct ligated growing rats. Schimpl G, et al. **Gut** 1996 Jul; 39(1):48–53

The effect of granulocyte colony-stimulating factor (G-CSF) on bacterial translocation in the splenectomized rat. Paksoy M, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):411–6

Effects of octreotide and a-tocopherol on bacterial translocation in experimental intestinal obstruction: a microbiological, light and electronmicroscopical study. Reis E, et al. **Hepatogastroenterology** 1997 May–Jun; 44(15):656–63

Nonabsorbable antibiotics reduce bacterial and endotoxin translocation in hepatectomised rats. Kakkos SK, et al. **HPB Surg** 1997;10(5):283–9; discussion 289–91

The effect of octreotid on bacterial translocation from the gut. An experimental study. Türkçapar AG, et al. **Int Surg** 1995 Jul–Sep;80(3):264–6

Influence of immunoglobulin and interleukin 2 on the translocation of microorganisms from gut into blood. Seifert J, et al. **J Anat** 1996 Dec;189 (Pt 3):549–52

Effect of enteral glutamine on intestinal permeability and bacterial translocation after abdominal radiation injury in rats. Chun H, et al. **J Gastroenterol** 1997 Apr;32(2):189–95

Partially purified soy hydrolysates retard proliferation and inhibit bacterial translocation in cultured C2BBe cells. Kops SK, et al. **J Nutr** 1997 Sep;127(9):1744–51

Interleukin-11 improves survival and reduces bacterial translocation and bone marrow suppression in burned mice. Schindel D, et al. **J Pediatr Surg** 1997 Feb;32(2):312–5

Oral L-2-oxo-4-thiazolidine reduces bacterial translocation after radiation in the Fischer rat. Blair SL, et al. **J Surg Res** 1996 Oct;65(2):165–8

Granulocyte colony-stimulating factor enhances killing of translocated bacteria but does not affect barrier function in a burn mouse model. Eaves-Pyles T, et al. **J Trauma** 1996 Dec;41(6):1013–7

Allopurinol reduces bacterial translocation, intestinal mucosal lipid peroxidation, and neutrophil-derived myeloperoxidase activity in chronic portal hypertensive and common bile duct-ligated growing rats. Schimpl G, et al. **Pediatr Res** 1996 Sep;40(3):422–8

Protective effects of ornithin-alpha-ketoglutarate supplementation on intestinal mucosa after orthotopic small bowel transplantation. de Oca J, et al. **Transplant Proc** 1996 Oct;28(5):2657

Effect of antibiotic luminal flushing on bacterial translocation: experimental study in small bowel autotransplantation in dogs. López F, et al. **Transplant Proc** 1996 Oct;28(5):2642–3

Parenteral fluoroquinolones prevent translocation of enterobacteria following combined liver-small bowel transplantation in pigs. Privitera G, et al. **Transplant Proc** 1996 Oct;28(5):2669–70

[Enhancement of gut immune function by early enteral feeding enriched with L-glutamine in severe burned miniswines] Yu B, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):98–100 (Eng. Abstr.) **(Chi)**

[Damage of intestinal mucosal barrier function after fluid resuscitation during hemorrhagic shock] Shimada J. **Masui** 1996 Jan;45(1):49–58 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Overactivation of the immune system by translocated bacteria and bacterial products. Hartung T, et al. **Scand J Gastroenterol Suppl** 1997;222:98–9

Role of cyclosporin A in bacterial translocation. Montero EF, et al. **Transplant Proc** 1996 Oct;28(5):2676

[Enteral administration of bovine colostrum reduces perioperative endotoxinemia--a controlled randomized study] Bölke E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:667–71 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Role of bacterial adherence and the mucus barrier on bacterial translocation: effects of protein malnutrition and endotoxin in rats. Katayama M, et al. **Ann Surg** 1997 Mar; 225(3):317–26

Bacterial translocation in organ donors: clinical observations and potential risk factors. Kane TD, et al. **Clin Transplant** 1997 Aug;11(4):271–4

Effect of Lactobacillus supplementation with and without arginine on liver damage and bacterial translocation in an acute liver injury model in the rat. Adawi D, et al. **Hepatology** 1997 Mar;25(3):642–7

The protective role of gastric acidity in neonatal bacterial translocation. Dinsmore JE, et al. **J Pediatr Surg** 1997 Jul; 32(7):1014–6

The association of gut-associated lymphoid tissue and bacterial translocation in the newborn rabbit. Urao M, et al. **J Pediatr Surg** 1996 Nov;31(11):1482–7

Acute hypoxia does not increase bacterial translocation in newborn rabbits. Urao M, et al. **J Pediatr Surg** 1996 May; 31(5):665–9

Role of glutamine in bacterial transcytosis and epithelial cell injury. Panigrahi P, et al. **JPEN J Parenter Enteral Nutr** 1997 Mar–Apr;21(2):75–80

Where is the site of bacterial translocation--small or large bowel? Koh IH, et al. **Transplant Proc** 1996 Oct;28(5):2661

Gut origin sepsis, macrophage function, and oxygen extraction associated with acute pancreatitis in the rat. Wang X, et al. **World J Surg** 1996 Mar–Apr;20(3):299–307; discussion 307–8

[Effect of laparotomy and laparoscopy with CO2 or helium on bacterial translocation in the rat model] Jacobi CA, et al. **Langenbecks Arch Chir Suppl Kongressb.** 1997; 114:247–51 (Eng. Abstr.) **(Ger)**

[In vitro characterization of the intestinal barrier function in 2 experimental colitis models in the rat] Rohweder J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:439–43 (Eng. Abstr.) **(Ger)**

RADIATION EFFECTS

Effect of irradiation on bacterial translocation in rat small bowel grafts. Bakonyi A, et al. **Transplant Proc** 1996 Oct; 28(5):2675

BACTERIAL TYPING TECHNIQUES

Phenotyping methods in epidemiological analysis of epidemic Staphylococcus aureus strains. Konopka M, et al. **Acta Microbiol Pol** 1996;45(3–4):269–78

Infections with Roseomonas gilardii and review of characteristics used for biochemical identification and molecular typing. Lewis L, et al. **Am J Clin Pathol** 1997 Aug;108(2):210–6

PCR ribotyping and endonuclease subtyping in the epidemiology of Burkholderia cepacia infection. Shreve MR, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):984–9

Fingerprinting of Ehrlichia species by repetitive element polymerase chain reaction. Dawson JE, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):109–14

Bacterial typing: storing and processing of stabilized reference bacteria for polymerase chain reaction without preparing DNA--an example of an automatable procedure. Rogers C, et al. **Anal Biochem** 1997 May 1;247(2):223–7

An homogeneous fluorescence polymerase chain reaction assay to identify Salmonella. Tseng SY, et al. **Anal Biochem** 1997 Feb 15;245(2):207–12

Detection and identification of bacteria using in-house broad range 16S rDNA PCR amplification and genus-specific DNA hybridization probes, located within variable regions of 16S rRNA genes. Monstein HJ, et al. **APMIS** 1996 Jun; 104(6):451–8

Use of rRNA gene restriction patterns to evaluate lactic acid bacterium contamination of vacuum-packaged sliced cooked whole-meat product in a meat processing plant. Björkroth KJ, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):448–53

Typing Listeria monocytogenes isolates from fish products and human listeriosis cases. Boerlin P, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1338–43

Intraspecific characterization of Vibrio tapetis strains by use of pulsed-field gel electrophoresis, ribotyping, and plasmid profiling. Castro D, et al. **Appl Environ Microbiol** 1997 Apr; 63(4):1449–52

Comparison of commercially available kits with standard methods for detection of Salmonella strains in foods. Hanai K, et al. **Appl Environ Microbiol** 1997 Feb;63(2):775–8

Phenotypic and genotypic characterization of phenanthrene-degrading fluorescent Pseudomonas biovars. Johnsen K, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3818–25

Detection system for Escherichia coli-specific virulence genes: absence of virulence determinants in B and C strains. Kuhnert P, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):703–9

Comparative analysis of antibiotic resistance, immunofluorescent colony staining, and a transgenic marker (bioluminescence) for monitoring the environmental fate of rhizobacterium. Mahaffee WF, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1617–22

Detection of Methylobacterium species by 16S rRNA gene-targeted PCR. Nishio T, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1594–7

Analysis of whole-cell fatty acid profiles of verotoxigenic Escherichia coli and Salmonella enteritidis with the microbial identification system. Steele M, et al. **Appl Environ Microbiol** 1997 Feb;63(2):757–60

Typing of mutans streptococci by arbitrarily primed polymerase chain reaction. Saarela M, et al. **Arch Oral Biol** 1996 Aug–Sep;41(8–9):821–6

Selective enumeration of aromatic and aliphatic hydrocarbon degrading bacteria by a most-probable-number procedure. Wrenn BA, et al. **Can J Microbiol** 1996 Mar;42(3):252–8

Heterogeneous Serratia marcescens genotypes from a nosocomial pediatric outbreak. Cimolai N, et al. **Chest** 1997 Jan;111(1):194–7

Molecular typing of Yersinia frederiksenii strains by means of ribotyping and DNA-DNA hybridization. Dolina M, et al. **Contrib Microbiol Immunol** 1995;13:140–4

Verification of a PCR-based typing method for Acinetobacter baumannii in a pseudo-outbreak investigation. Cimolai N, et al. **Diagn Microbiol Infect Dis** 1997 Jun;28(2):61–4

Comparative usefulness of ribotyping, exotoxin A genotyping, and SalI restriction fragment length polymorphism analysis for Pseudomonas aeruginosa lineage assessment. Nociari MM, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):179–90

Transmission of Citrobacter koseri from mother to infant documented by ribotyping and pulsed-field gel electrophoresis. Papasian CJ, et al. **Diagn Microbiol Infect Dis** 1996 Oct;26(2):63–7 (9 ref.)

Characterisation of atypical biotype 3, serotype O:3 Yersinia and development of a simple identification scheme. Pham JN, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec; 15(12):947–50

The use of PCR ribotyping for typing strains of Listeria spp. Sontakke S, et al. **Eur J Epidemiol** 1995 Dec;11(6):665–73

Epidemiology and typing of Clostridium difficile. Jumaa P, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1035–40 (53 ref.)

Electrophoresis of whole-cell soluble proteins of microorganisms isolated from bacteremias in endodontic therapy. Debelian GJ, et al. **Eur J Oral Sci** 1996 Oct–Dec; 104(5–6):540–6

Enzyme electrophoresis combined with serogrouping for improved differentiation of Clostridium difficile strains. Bories PN, et al. **FEMS Immunol Med Microbiol** 1996 Jul; 14(4):187–93

RAPD analysis of environmental, food and clinical isolates of Campylobacter spp. Hilton AC, et al. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):119–24

Ribotyping of Pseudomonas aeruginosa isolates from patients and water springs and genome fingerprinting of variants concerning mucoidy. Leitão JH, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):287–92

Comparison of random amplified polymorphic DNA analysis and enterobacterial repetitive intergenic consensus-PCR for epidemiological studies of Salmonella. Millemann Y, et al. **FEMS Immunol Med Microbiol** 1996 Jun; 14(2–3):129–34

Single-step polymerase chain reaction for combined gene detection and epidemiological typing in three bacterial models. Saulnier P, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):311–6

Borrelia burgdorferi infection: clinical diagnostic techniques. Coyle PK. **Immunol Invest** 1997 Jan–Feb;26(1–2):117–28 (67 ref.)

CAMP test for the identification of Vibrio cholerae 0139. George V, et al. **Indian J Med Res** 1996 Jan;103:55–7

Quantitative antibiogram as a typing method for the prospective epidemiological surveillance and control of MRSA: comparison with molecular typing. Blanc DS, et al. **Infect Control Hosp Epidemiol** 1996 Oct;17(10):654–9

Plasmid analysis of 26 staphylococcal species by a rapid microscale technique. Herchline T, et al. **Infect Control Hosp Epidemiol** 1996 Oct;17(10):687–90

Epidemiologic typing systems. Maslow J, et al. **Infect Control Hosp Epidemiol** 1996 Sep;17(9):595–604 (119 ref.)

How to select and interpret molecular strain typing methods for epidemiological studies of bacterial infections: a review for healthcare epidemiologists. Molecular Typing Working

Group of the Society for Healthcare Epidemiology of America. Tenover FC, et al.
Infect Control Hosp Epidemiol 1997 Jun;18(6):426–39 (75 ref.)

Monitoring persistence of coagulase–negative staphylococci in a hematology department using phenotypic and genotypic strategies. van Belkum A, et al.
Infect Control Hosp Epidemiol 1996 Oct;17(10):660–7

Typing of Listeria monocytogenes by monocin and phage receptors. Bannerman E, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):245–62

WHO International Multicenter Listeria monocytogenes Subtyping Study--rationale and set-up of the study. Bille J, et al. **Int J Food Microbiol** 1996 Oct;32(3):251–62

Genomic fingerprinting of 80 strains from the WHO multicenter international typing study of listeria monocytogenes via pulsed–field gel electrophoresis (PFGE). Brosch R, et al. **Int J Food Microbiol** 1996 Oct; 32(3):343–55

Multilocus enzyme electrophoresis for characterization of Listeria monocytogenes isolates: results of an international comparative study. Caugant DA, et al.
Int J Food Microbiol 1996 Oct;32(3):301–11

High–frequency endonuclease (REA) typing: results from the WHO collaborative study group on subtyping of Listeria monocytogenes. Gerner–Smidt P, et al.
Int J Food Microbiol 1996 Oct;32(3):313–24

WHO–sponsored international collaborative study to evaluate methods for subtyping Listeria monocytogenes: restriction fragment length polymorphism (RFLP) analysis using ribotyping and Southern hybridization with two probes derived from L. monocytogenes chromosome. Swaminathan B, et al. **Int J Food Microbiol** 1996 Oct; 32(3):263–78

The WHO multicenter study on Listeria monocytogenes subtyping: random amplification of polymorphic DNA (RAPD). Wernars K, et al. **Int J Food Microbiol** 1996 Oct; 32(3):325–41

Molecular typing of Cryptococcus neoformans: taxonomic and epidemiological aspects. Boekhout T, et al.
Int J Syst Bacteriol 1997 Apr;47(2):432–42

Use of ribotyping to distinguish Bordetella bronchiseptica isolates. Register KB, et al. **Int J Syst Bacteriol** 1997 Jul; 47(3):678–83

Production of bacteriolytic enzymes as a tool for characterizing enterococci. Berlutti F, et al.
J Appl Bacteriol 1996 Apr;80(4):447–52

Random amplification of polymorphic DNA (RAPD) of Salmonella: strain differentiation and characterization of amplified sequences. Hilton AC, et al. **J Appl Bacteriol** 1996 Dec;81(6):575–84

Conventional and molecular approaches to isolates of Salmonella hadar from sporadic and epidemic cases. Fantasia M, et al. **J Appl Microbiol** 1997 Apr;82(4):494–8

Note: cyclohexenoesculetin–beta–D–glucoside: a new substrate for the detection of bacterial beta–D–glucosidase. James AL, et al. **J Appl Microbiol** 1997 Apr;82(4):532–6

Evaluation of the Phene Plate generalized microplate for metabolic fingerprinting and for measuring fermentative capacity of mixed bacterial populations. Katouli M, et al. **J Appl Microbiol** 1997 Apr;82(4):511–8

Evaluation of the resolving power of three different DNA fingerprinting methods to discriminate among isolates of a natural Rhizobium meliloti population. Niemann S, et al. **J Appl Microbiol** 1997 Apr;82(4):477–84

Comparison of type A enterotoxigenic Staphylococcus aureus strains isolated from geographically far distant locations by pulsed field gel electrophoresis. Tsen HY, et al. **J Appl Microbiol** 1997 Apr;82(4):485–93

A surfeit of YATMs? [letter] Achtman M.
J Clin Microbiol 1996 Jul;34(7):1870

Genomic fingerprinting of Haemophilus somnus by a combination of PCR methods. Appuhamy S, et al.
J Clin Microbiol 1997 Jan;35(1):288–91

Spacer oligonucleotide typing of Mycobacterium bovis strains from cattle and other animals: a tool for studying epidemiology of tuberculosis. Aranaz A, et al.
J Clin Microbiol 1996 Nov;34(11):2734–40

Evaluation of the semiautomated Abbott LCx Mycobacterium tuberculosis assay for direct detection of Mycobacterium tuberculosis in respiratory specimens. Ausina V, et al. **J Clin Microbiol** 1997 Aug;35(8):1996–2002

Confirmation of the presence of Mycobacterium tuberculosis and other mycobacteria in mycobacterial growth indicator tubes (MGIT) by multiplex strand displacement amplification. Badak FZ, et al. **J Clin Microbiol** 1997 May; 35(5):1239–43

False–positive results from cultures of Mycobacterium tuberculosis due to laboratory cross–contamination confirmed by restriction fragment length polymorphism. Bauer J, et al. **J Clin Microbiol** 1997 Apr;35(4):988–91

Rapid detection of Salmonella enterica with primers specific for iroB. Bäumler AJ, et al. **J Clin Microbiol** 1997 May; 35(5):1224–30

Identification of Aeromonas clinical isolates by restriction fragment length polymorphism of PCR–amplified 16S rRNA genes. Borrell N, et al. **J Clin Microbiol** 1997 Jul; 35(7):1671–4

Use of Gen–Probe AccuProbe Group B streptococcus test to detect group B streptococci in broth cultures of vaginal–anorectal specimens from pregnant women: comparison with traditional culture method. Bourbeau PP, et al. **J Clin Microbiol** 1997 Jan;35(1):144–7

Use of cleaved amplified polymorphic sequences to distinguish strains of Staphylococcus epidermidis. Calderwood SB, et al. **J Clin Microbiol** 1996 Nov; 34(11):2860–5

Comparison of biotyping, ribotyping, and pulsed–field gel electrophoresis for investigation of a common–source outbreak of Burkholderia pickettii bacteremia. Chetoui H, et al. **J Clin Microbiol** 1997 Jun;35(6):1398–403

Rapid identification of Salmonella serovars in feces by specific detection of virulence genes, invA and spvC, by an enrichment broth culture–multiplex PCR combination assay. Chiu CH, et al. **J Clin Microbiol** 1996 Oct; 34(10):2619–22

Typing of Staphylococcus aureus by PCR for DNA sequences flanked by transposon Tn916 target region and ribosomal binding site. Cuny C, et al. **J Clin Microbiol** 1996 Jun;34(6):1502–5

Molecular epidemiology of an outbreak of multidrug–resistant Enterobacter aerogenes infections and in vivo emergence of imipenem resistance. De Gheldre Y, et al. **J Clin Microbiol** 1997 Jan;35(1):152–60

The value of including broth cultures as part of a routine culture protocol. Derby P, et al. **J Clin Microbiol** 1997 May;35(5):1101–2

Acidification of methyl–alpha–D–glucopyranoside: a useful test to differentiate Enterococcus casseliflavus and Enterococcus gallinarum from Enterococcus faecium species group and from Enterococcus faecalis. Devriese LA, et al. **J Clin Microbiol** 1996 Oct;34(10):2607–8

Evaluation of an extended blood culture protocol to isolate fastidious organisms from patients with AIDS. Dougherty MJ, et al. **J Clin Microbiol** 1996 Oct;34(10):2444–7

Evaluation of spoligotyping in a study of the transmission of Mycobacterium tuberculosis. Goguet de la Salmonière YO, et al. **J Clin Microbiol** 1997 Sep;35(9):2210–4

Comparison of pulsed–field gel electrophoresis and randomly amplified DNA polymorphism analysis for typing extended–spectrum–beta–lactamase–producing Klebsiella pneumoniae. Gori A, et al. **J Clin Microbiol** 1996 Oct; 34(10):2448–53

Differentiation of Mycobacterium tuberculosis isolates by spoligotyping and IS6110 restriction fragment length polymorphism. Goyal M, et al. **J Clin Microbiol** 1997 Mar; 35(3):647–51

Molecular typing of nosocomial strains of Legionella pneumophila by arbitrarily primed PCR. Grattard F, et al. **J Clin Microbiol** 1996 Jun;34(6):1595–8

Molecular typing of Salmonella typhi strains from Dhaka (Bangladesh) and development of DNA probes identifying plasmid–encoded multidrug–resistant isolates. Hermans PW, et al. **J Clin Microbiol** 1996 Jun;34(6):1373–9

Large–restriction–fragment analysis of Mycobacterium kansasii genomic DNA and its application in molecular typing. Iinuma Y, et al. **J Clin Microbiol** 1997 Mar; 35(3):596–9

Evaluation of L–pyrrolidonyl peptidase paper strip test for differentiation of members of the family Enterobacteriaceae, particularly Salmonella spp. Inoue K, et al. **J Clin Microbiol** 1996 Jul;34(7):1811–2

Analysis and typing of the vacA gene from cagA–positive strains of Helicobacter pylori isolated in Japan. Ito Y, et al. **J Clin Microbiol** 1997 Jul;35(7):1710–4

Controlled clinical laboratory comparison of BACTEC plus aerobic/F resin medium with BacT/Alert aerobic FAN medium for detection of bacteremia and fungemia. Jorgensen JH, et al. **J Clin Microbiol** 1997 Jan;35(1):53–8

Single–tube, nested, reverse transcriptase PCR for detection of viable Mycobacterium tuberculosis. Jou NT, et al.
J Clin Microbiol 1997 May;35(5):1161–5

Simultaneous detection and strain differentiation of Mycobacterium tuberculosis for diagnosis and epidemiology. Kamerbeek J, et al. **J Clin Microbiol** 1997 Apr;35(4):907–14

Multiplex PCR assay for immediate identification of the infecting species in patients with mycobacterial disease. Kox LF, et al. **J Clin Microbiol** 1997 Jun;35(6):1492–8

Use of nucleic acid probes to identify mycobacteria directly from Difco ESP–Myco bottles. Labombardi VJ, et al.
J Clin Microbiol 1997 Apr;35(4):1002–4

Epidemiological differentiation of pathogenic strains of Salmonella enteritidis by ribotyping. Landeras E, et al.
J Clin Microbiol 1996 Sep;34(9):2294–6

Use of monoclonal antibodies to facilitate identification, cloning, and purification of Chlamydia trachomatis hsp10. LaVerda D, et al. **J Clin Microbiol** 1997 May;35(5):1209–15

Comparison of direct–plating and enrichment methods for isolation of Vibrio cholerae from diarrhea patients. Lesmana M, et al. **J Clin Microbiol** 1997 Jul;35(7):1856–8

Rapid identification of pathogenic Leptospira species (Leptospira interrogans, L. borgpetersenii, and L. kirschneri) with species–specific DNA probes produced by arbitrarily primed PCR. Letocart M, et al.
J Clin Microbiol 1997 Jan;35(1):248–53

Evaluation and comparison of molecular techniques for epidemiological typing of Salmonella enterica subsp. enterica serovar dublin. Liebisch B, et al.
J Clin Microbiol 1996 Mar;34(3):641–6

Rapid and effective method for preparation of fecal specimens for PCR assays. Lou Q, et al.
J Clin Microbiol 1997 Jan;35(1):281–3

Comparison of five tests for identification of Staphylococcus aureus from clinical samples. Luijendijk A, et al.
J Clin Microbiol 1996 Sep;34(9):2267–9

Evaluation of ribotyping as epidemiologic tool for typing Escherichia coli serogroup O157 isolates. Martin IE, et al.
J Clin Microbiol 1996 Mar;34(3):720–3

Rapid discrimination of Mycobacterium avium strains from AIDS patients by randomly amplified polymorphic DNA analysis. Matsiota–Bernard P, et al. **J Clin Microbiol** 1997 Jun;35(6):1585–8

Species identification of Chlamydia isolates by analyzing restriction fragment length polymorphism of the 16S–23S rRNA spacer region. Meijer A, et al. **J Clin Microbiol** 1997 May;35(5):1179–83

Use of pulsed–field gel electrophoresis typing to study an outbreak of infection due to Serratia marcescens in a neonatal intensive care unit. Miranda G, et al.
J Clin Microbiol 1996 Dec;34(12):3138–41

Contribution of a typing method based on IS256 probing of SmaI–digested cellular DNA to discrimination of European phage type 77 methicillin–resistant Staphylococcus aureus strains. Morvan A, et al.
J Clin Microbiol 1997 Jun;35(6):1415–23

Molecular typing of Salmonella enterica serovar typhi. Navarro F, et al. **J Clin Microbiol** 1996 Nov;34(11):2831–4

Direct identification and typing of Mycobacterium tuberculosis by PCR. Neimark H, et al.
J Clin Microbiol 1996 Oct;34(10):2454–9

PCR–single–stranded confirmational polymorphism analysis for non–culture–based subtyping of meningococcal strains in clinical specimens. Newcombe J, et al.
J Clin Microbiol 1997 Jul;35(7):1809–12

Molecular typing of Yersinia pseudotuberculosis by using an IS200–like element. Odaert M, et al. **J Clin Microbiol** 1996 Sep;34(9):2231–5

Rapid screening method for identification of cholera toxin–producing Vibrio cholerae O1 and O139. Osawa R, et al. **J Clin Microbiol** 1997 Apr;35(4):951–3

Use of a PCR method based on IS6110 polymorphism for typing Mycobacterium tuberculosis strains from BACTEC cultures. Otal I, et al. **J Clin Microbiol** 1997 Jan;35(1):273–7

Comparison of identifications of human and animal source gram–negative bacteria by API 20E and crystal E/NF systems. Peele D, et al. **J Clin Microbiol** 1997 Jan; 35(1):213–6

Potential for gene transfer among enterococci from a single patient and the possibility of confounding typing results. Petts DN, et al. **J Clin Microbiol** 1997 Jul;35(7):1722–7

Comparative evaluation of two commercial amplification assays for direct detection of Mycobacterium tuberculosis complex in respiratory specimens. Piersimoni C, et al.
J Clin Microbiol 1997 Jan;35(1):193–6

Ribosomal DNA typing of Haemophilus ducreyi strains: proposal for a novel typing scheme. Pillay A, et al.
J Clin Microbiol 1996 Oct;34(10):2613–5

Use of heteroduplex analysis to classify legionellae on the basis of 5S rRNA gene sequences. Pinar A, et al.
J Clin Microbiol 1997 Jun;35(6):1609–11

Comparative typing of Pseudomonas aeruginosa by random amplification of polymorphic DNA or pulsed–field gel electrophoresis of DNA macrorestriction fragments. Renders N, et al. **J Clin Microbiol** 1996 Dec;34(12):3190–5

Rapid identification of Actinobacillus actinomycetemcomitans, Haemophilus aphrophilus, and Haemophilus paraphrophilus by restriction enzyme analysis of PCR–amplified 16S rRNA genes. Riggio MP, et al.
J Clin Microbiol 1997 Jun;35(6):1630–2

Epidemiological typing of isolates from an outbreak of infection with multidrug–resistant Enterobacter cloacae by repetitive extragenic palindromic unit b1–primed PCR and pulsed–field gel electrophoresis. Shi ZY, et al.
J Clin Microbiol 1996 Nov;34(11):2784–90

Molecular typing of Helicobacter pylori isolates from a multicenter U.S. clinical trial by ureC restriction fragment length polymorphism. Shortridge VD, et al.
J Clin Microbiol 1997 Feb;35(2):471–3

Identification and classification of Oxalobacter formigenes strains by using oligonucleotide probes and primers. Sidhu H, et al. **J Clin Microbiol** 1997 Feb;35(2):350–3

Pseudo–outbreak of Enterococcus durans infections and colonization associated with introduction of an automated identification system software update. Singer DA, et al.
J Clin Microbiol 1996 Nov;34(11):2685–7

Differentiation of Mycobacterium bovis isolates from animals by DNA typing. Škuce RA, et al. **J Clin Microbiol** 1996 Oct;34(10):2469–74

Detection of Mycobacterium tuberculosis in BACTEC 12B broth cultures by the Roche Amplicor PCR assay. Smith MB, et al. **J Clin Microbiol** 1997 Apr;35(4):900–2

Vulval swabs as alternative specimens for ligase chain reaction detection of genital chlamydial infection in women. Stary A, et al. **J Clin Microbiol** 1997 Apr; 35(4):836–8

Comparison of ligase chain reaction and culture for detection of Neisseria gonorrhoeae in genital and extragenital specimens. Stary A, et al. **J Clin Microbiol** 1997 Jan; 35(1):239–42

The diagnostic yield of acid–fast–bacillus smear–positive sputum specimens. Stone BL, et al. **J Clin Microbiol** 1997 Apr;35(4):1030–1

Molecular subtyping of Neisseria meningitidis serogroup B: comparison of five methods. Swaminathan B, et al.
J Clin Microbiol 1996 Jun;34(6):1468–73

Cross-reactions of reagents from streptococcal grouping kits with Streptococcus porcinus. Thompson T, et al. **J Clin Microbiol** 1997 Jul;35(7):1885-6

Species identification of enterococci via intergenic ribosomal PCR. Tyrrell GJ, et al. **J Clin Microbiol** 1997 May; 35(5):1054-60

Comparison of fluorescent BACTEC 9000 MB system, Septi-Chek AFB system, and Lowenstein-Jensen medium for detection of mycobacteria. van Griethuysen AJ, et al. **J Clin Microbiol** 1996 Oct;34(10):2391-4

On the nature and use of randomly amplified DNA from Staphylococcus aureus. van Leeuwen W, et al. **J Clin Microbiol** 1996 Nov;34(11):2770-7

Genotyping of Mycobacterium tuberculosis with additional markers enhances accuracy in epidemiological studies. Warren R, et al. **J Clin Microbiol** 1996 Sep;34(9):2219-24

Molecular characterization of Salmonella enterica subsp. enterica serovar choleraesuis field isolates and differentiation from homologous live vaccine strains suisaloral and SC-54. Weide-Botjes M, et al. **J Clin Microbiol** 1996 Oct;34(10):2460-3

Subspecies typing of Vibrio parahaemolyticus by pulsed-field gel electrophoresis. Wong HC, et al. **J Clin Microbiol** 1996 Jun;34(6):1535-9

Production of monoclonal antibodies against Rickettsia massiliae and their use in antigenic and epidemiological studies. Xu W, et al. **J Clin Microbiol** 1997 Jul; 35(7):1715-21

Evaluation of method for secondary DNA typing of Mycobacterium tuberculosis with pTBN12 in epidemiologic study of tuberculosis. Yang Z, et al. **J Clin Microbiol** 1996 Dec;34(12):3044-8

Differentiation of Vibrio cholerae O1 isolates with biochemical fingerprinting and comparison with ribotyping. Ansaruzzaman M, et al. **J Diarrhoeal Dis Res** 1996 Dec;14(4):248-54

A comparison of methods to determine whether clinical isolates of Staphylococcus epidermidis from the same patient are related. Hedin G. **J Hosp Infect** 1996 Sep; 34(1):31-42

Epidemiological typing of Stenotrophomonas maltophilia. Marty N. **J Hosp Infect** 1997 Aug;36(4):261-6 (29 ref.)

Epidemiologically related and unrelated strains of Pseudomonas aeruginosa serotype O12 cannot be distinguished by phenotypic and genotypic typing. Mifsud AJ, et al. **J Hosp Infect** 1997 Jun;36(2):105-16

RAPD typing in microbiology--a technical review. Power EG. **J Hosp Infect** 1996 Dec;34(4):247-65 (55 ref.)

A three-way ribotyping scheme for Salmonella serotype Typhimurium and its usefulness for phylogenetic and epidemiological purposes. Guerra B, et al. **J Med Microbiol** 1997 Apr;46(4):307-13

Source of variation detected in ribotyping patterns of Haemophilus influenzae: comparison of traditional ribotyping, PCR-ribotyping and rDNA restriction analysis. Jordens JZ, et al. **J Med Microbiol** 1997 Sep;46(9):763-72

Pyrolysis mass spectrometry in epidemiological and population genetic studies of Haemophilus influenzae. Leaves NI, et al. **J Med Microbiol** 1997 Mar;46(3):204-7

Application of the Mast resistotyping scheme to Campylobacter jejuni and C. coli. Owen RJ, et al. **J Med Microbiol** 1997 Jan;46(1):34-8

Genetic identification of members of the genus Corynebacterium at genus and species levels with 16S rDNA-targeted probes. Hou XG, et al. **Microbiol Immunol** 1997;41(6):453-60

Rapid identification of mutans streptococcal species. Igarashi T, et al. **Microbiol Immunol** 1996;40(11):867-71

Polymerase chain reaction test for differentiation of five toxin types of Clostridium perfringens. Yamagishi T, et al. **Microbiol Immunol** 1997;41(4):295-9

Epitopes of Bordetella pertussis lipopolysaccharides as potential markers for typing of isolates with monoclonal antibodies. Le Blay K, et al. **Microbiology** 1996 Apr;142 (Pt 4):971-8

Use of siderophores to type pseudomonads: the three Pseudomonas aeruginosa pyoverdine systems. Meyer JM, et al. **Microbiology** 1997 Jan;143 (Pt 1):35-43

Genomic relationships between selected phage types of Salmonella enterica subsp. enterica serotype typhimurium defined by ribotyping, IS200 typing and PFGE. Olsen JE, et al. **Microbiology** 1997 Apr;143 (Pt 4):1471-9

Typing of Mycoplasma pneumoniae by nucleic acid sequence-based amplification, NASBA. Ovyn C, et al. **Mol Cell Probes** 1996 Oct;10(5):319-24

A PCR-based DNA fingerprinting technique: AFLP for molecular typing of bacteria. Lin JJ, et al. **Nucleic Acids Res** 1996 Sep 15;24(18):3649-50

Selection of optimum laboratory tests for the identification of Moraxella catarrhalis. Singh S, et al. **Pathology** 1997 May;29(2):206-8

Differentiation of Salmonella typhi strains by ribosomal RNA gene restriction patterns. Chou WH, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):620-4

Typing of Austrian Listeria monocytogenes isolates by automated laser fluorescence analysis of randomly amplified polymorphic DNA. Allerberger F, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):33-40

Evaluation of the synergistic haemolysis (CAMP-like) test in the identification of motile, mesophilic Aeromonas species. Gubash SM. **Zentralbl Bakteriol** 1997 Jun; 286(1):41-5

Epidemiological typing of Klebsiella pneumoniae by pyrolysis mass spectrometry. Jackson RM, et al. **Zentralbl Bakteriol** 1997 Jan;285(2):252-7

Typing of the fish pathogen Listonella (Vibrio) anguillara by pyrolysis mass spectrometry. Manfio GP, et al. **Zentralbl Bakteriol** 1997 Jan;285(2):245-51

Phage types and ribotypes of Salmonella enteritidis in southern Italy. Pignato S, et al. **Zentralbl Bakteriol** 1996 Mar;283(3):399-405

Typing of nosocomial strains of Serratia marcescens: comparison of restriction enzyme cleaved genomic DNA fragment (PFGE) analysis with bacteriocin typing, biochemical profiles and serotyping. Traub WH, et al. **Zentralbl Bakteriol** 1996 Jun;284(1):93-106

[Evaluation of the usefulness of tests for production of Beta-D-glucuronidase and propylene glycol utilization for the differentiation of enterobacteriaceae rods] Kalużewski S, et al. **Med Dosw Mikrobiol** 1995;47(3-4):155-68 (Eng. Abstr.) **(Pol)**

[Methods of intraspecies differentiation of Enterobacter cloacae by biochemical reactions] Priamukhina NS, et al. **Klin Lab Diagn** 1996 Sep-Oct;(5):43-5 (Eng. Abstr.) **(Rus)**

[Comparative evaluation of methods of intracellular ATP extraction from different types of microorganisms for bioluminescent determinationof microbial cells] Romanova NA, et al. **Prikl Biokhim Mikrobiol** 1997 May-Jun; 33(3):344-9 (Eng. Abstr.) **(Rus)**

[Characteristics of Listeria monocytogenes strains isolated in Russia and their typing using pulse electrophoresis] Marakusha BI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May-Jun; (3):60-4 (Eng. Abstr.) **(Rus)**

[Epidemiological characterization of Haemophilus influenzae using molecular markers] Aparicio P, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):227-32 (Eng. Abstr.) **(Spa)**

[Current and future prospects of molecular biology techniques in the epidemiologic study of nosocomial infections (editorial)] Vila J. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):341-4 **(Spa)**

[Utilization of different microbiological markers in the study of Haemophilus influenzae] Azahares Romero LE, et al. **Rev Argent Microbiol** 1996 Jul-Sep;28(3):111-7 (Eng. Abstr.) **(Spa)**

[Utility of pyrrolidonyl-arylamidase detection for typing Enterobacteriaceae and non-fermenting Gram-negative bacteria] Nicola F, et al. **Rev Argent Microbiol** 1995 Oct-Dec;27(4):204-9 (Eng. Abstr.) **(Spa)**

[Comparative study of HELISAL T.M. RAPID BLOOD and ELISA, JATROX and pathologic anatomy in the diagnosis of Helicobacter pylori infection] Huelin J, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):825-7 (Eng. Abstr.) **(Spa)**

ECONOMICS

Diagnosis of vascular catheter-related bloodstream infection: a meta-analysis. Siegman-Igra Y, et al. **J Clin Microbiol** 1997 Apr;35(4):928-36

INSTRUMENTATION

Improved detection of bacterial growth in continuous ambulatory peritoneal dialysis effluent by use of BacT/Alert FAN bottles. Alfa MJ, et al. **J Clin Microbiol** 1997 Apr;35(4):862-6

Four-day incubation period for blood culture bottles processed with the Difco ESP blood culture system. Doern GV, et al. **J Clin Microbiol** 1997 May;35(5):1290-2

Use of cycloserine-cefoxitin-fructose agar and L-proline-aminopeptidase (PRO Discs) in the rapid identification of Clostridium difficile. Fedorko DP, et al. **J Clin Microbiol** 1997 May;35(5):1258-9

TRENDS

DFA, EIA, PCR, LCR and other technologies: what tests should be used for diagnosis of chlamydia infections? Schachter J. **Immunol Invest** 1997 Jan-Feb;26(1-2):157-61 (11 ref.)

Current trends in typing of bacterial strains for medical purposes [editorial] Van Belkum A. **Zentralbl Bakteriol** 1996 Mar;283(3):249-52

BACTERIAL VACCINES

Mycoplasmal pneumonia in pigs in Croatia: first evaluation of a vaccine in fattening pigs. Bilić V, et al. **Acta Vet Hung** 1996;44(3):287-93

Experiences with different vaccines and vaccination procedures to control furunculosis in sea-reared Atlantic salmon. Lillehaug A. **Acta Vet Scand Suppl** 1996;90:57-62

Parameters for the rational design of genetic toxoid vaccines. Burnette WN. **Adv Exp Med Biol** 1996;397:61-7 (27 ref.)

Clinical trials of Shigella vaccines in Israel. Cohen D, et al. **Adv Exp Med Biol** 1996;397:159-67 (27 ref.)

Polysaccharide conjugate vaccines for the prevention of gram-positive bacterial infections. Naso R, et al. **Adv Exp Med Biol** 1996;397:133-40 (17 ref.)

Protective immunity induced by Bacillus anthracis toxin mutant strains. Pezard C, et al. **Adv Exp Med Biol** 1996; 397:69-72 (13 ref.)

Bacterial outer membrane protein vaccines. The meningococcal example. Poolman JT. **Adv Exp Med Biol** 1996;397:73-7 (39 ref.)

New vaccines against bacterial toxins. Rappuoli R, et al. **Adv Exp Med Biol** 1996;397:55-60 (30 ref.)

Hybrid hepatitis B virus core antigen as a vaccine carrier moiety. II. Expression in avirulent Salmonella spp. for mucosal immunization. Schödel F, et al. **Adv Exp Med Biol** 1996;397:15-21 (18 ref.)

DNA vaccines for bacteria and viruses. Ulmer JB, et al. **Adv Exp Med Biol** 1996;397:49-53 (15 ref.)

ASHP therapeutic position statement on strategies for identifying and preventing pneumococcal resistance. **Am J Health Syst Pharm** 1997 Mar 1;54(5):575-8

Immunization of HIV-infected adults with a three-dose series of inactivated Mycobacterium vaccae. Marsh BJ, et al. **Am J Med Sci** 1997 Jun;313(6):377-83

Pneumococcal pneumonia and influenza vaccination: access to and use by US Hispanic Medicare beneficiaries. Mark TL, et al. **Am J Public Health** 1996 Nov;86(11):1545-50

Comparison of whole-cell antigens of pressure- and formalin-killed Flexibacter columnaris from channel catfish (Ictalurus punctatus). Bader JA, et al. **Am J Vet Res** 1997 Sep;58(9):985-8

Effects of age at vaccination on efficacy of Brucella abortus strain RB51 to protect cattle against brucellosis. Cheville NF, et al. **Am J Vet Res** 1996 Aug;57(8):1153-6

Antibody responses of cattle to outer membrane proteins of Pasteurella multocida A:3. Confer AW, et al. **Am J Vet Res** 1996 Oct;57(10):1453-7

Safety and efficacy of an avirulent live Salmonella choleraesuis vaccine for protection of calves against S dublin infection. Fox BC, et al. **Am J Vet Res** 1997 Mar; 58(3):265-71

Effects of oral or intravenous inoculation with Brucella abortus strain RB51 vaccine in beagles. Palmer MV, et al. **Am J Vet Res** 1997 Aug;58(8):851-6

Use of Rhodococcus equi virulence-associated protein for immunization of foals against R equi pneumonia. Prescott JF, et al. **Am J Vet Res** 1997 Apr;58(4):356-9

Efficacy of a subcutaneously administered, ultraviolet light-killed Pasteurella multocida A:3-containing bacterin against transthoracic challenge exposure in goats. Purdy CW, et al. **Am J Vet Res** 1997 Aug;58(8):841-7

Estimation of fimbrial vaccine effectiveness in protection against keratoconjunctivitis infectiosa in calves considering different routes of introducing vaccine antigene. Misiura M. **Arch Vet Pol** 1994;34(3-4):177-86

Keratoconjunctivitis infectiosa in calves--attempt at elimination by active immunization. Misiura M. **Arch Vet Pol** 1994;34(3-4):187-94

Pneumococcal vaccine. Torzillo PJ. **Aust Fam Physician** 1997 Aug;26(8):937-41

Pneumococcal vaccination: an important strategy to prevent pneumonia in Aboriginal and Torres Strait Island adults [see comments] Hanna JN, et al. **Aust N Z J Public Health** 1997 Jun;21(3):281-5. Comment in: Aust N Z J Public Health 1997 Jun;21(3):243-4.

Field trial of a staphylococcal mastitis vaccine in dairy herds: clinical, subclinical and microbiological assessments. Watson DL, et al. **Aust Vet J** 1996 Dec;74(6):447-50

Comparison of live avirulent PM-1 and CU fowl cholera vaccines in turkeys. Hopkins BA, et al. **Avian Dis** 1997 Apr-Jun;41(2):317-25

Transmissibility of live Mycoplasma gallisepticum vaccine strains ts-11 and 6/85 from vaccinated layer pullets to sentinel poultry. Ley DH, et al. **Avian Dis** 1997 Jan-Mar; 41(1):187-94

Efficacy of aluminum hydroxide-adjuvanted Escherichia coli bacterin in turkey poults. Trampel DW, et al. **Avian Dis** 1997 Apr-Jun;41(2):263-8

Vaccine development against Helicobacter pylori infections. Haas R, et al. **Biologicals** 1997 Jun;25(2):175-7 (13 ref.)

Current developments in new vaccines for adolescents. Rappuoli R. **Biologicals** 1997 Jun;25(2):159-63 (36 ref.)

Simultaneous immunisation with influenza vaccine and pneumococcal polysaccharide vaccine in patients with chronic respiratory disease. Fletcher TJ, et al. **BMJ** 1997 Jun 7;314(7095):1663-5

Pneumococcal vaccine campaign based in general practice. McDonald P, et al. **BMJ** 1997 Apr 12;314(7087):1094-8

Subunit vaccines for complex tick-borne pathogens: dream or reality? [editorial; comment] Morrison WI. **Br Vet J** 1996 Nov;152(6):617-9. Comment on: Br Vet J 1996 Nov;152(6):621-39.

Prospects for subunit vaccines against tick-borne diseases [see comments] Musoke AJ, et al. **Br Vet J** 1996 Nov; 152(6):621-39 (125 ref.). Comment in: Br Vet J 1996 Nov;152(6):617-9.

Impact of a mass immunization campaign against serogroup C meningococcus in the Province of Quebec, Canada. De Wals P, et al. **Bull World Health Organ** 1996;74(4):407-11

Shigella vaccine research and development. **Can Commun Dis Rep** 1997 Apr 15;23(8):59-62 **(Eng, Fre)**

Specific issues in the design and implementation of an efficacy trial for a Lyme disease vaccine. Meurice F, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S71-5

Q fever vaccination in Queensland abattoirs. Bell M, et al. **Commun Dis Intell** 1997 Feb 6;21(3):29-31

Reasons for instability of bacterial vaccines. Corbel MJ.

Dev Biol Stand 1996;87:113–24 (19 ref.)

Recent trends in the developments of bacterial vaccines. Lindberg AA, et al. **Dev Biol Stand** 1996;87:59–71 (29 ref.)

The reaction of bacterial toxins with formaldehyde and its use for antigen stabilization. Petre J, et al. **Dev Biol Stand** 1996;87:125–34

Frontiers in Helicobacter pylori research: pathogenesis, host response, vaccine development and new therapeutic approaches. Michetti P, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):717–22

Gastritis in urease-immunized mice after Helicobacter felis challenge may be due to residual bacteria. Ermak TH, et al. **Gastroenterology** 1997 Oct;113(4):1118–28

Heat-killed Bacillus subtilis inhibits T-cell proliferative response to mitogens and recall antigens. Gao J, et al. **Int J Immunopharmacol** 1996 Dec;18(12):701–6

Immunoprophylaxis against leprosy; the case for improved vaccines against leprosy. Britton WJ. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4 Suppl):S77–9 (12 ref.)

Immunoprophylaxis of leprosy—lessons from the TB program. Young D. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4 Suppl):S75–6

Fulminant septicaemia [letter] Mazdai G, et al. **Ir Med J** 1996 Nov–Dec;89(6):228

Field trials of a vaccine against bovine mastitis. 2. Evaluation in two commercial dairy herds. Calzolari A, et al. **J Dairy Sci** 1997 May;80(5):854–8

Field trials of a vaccine against bovine mastitis. 1. Evaluation in heifers. Giraudo JA, et al. **J Dairy Sci** 1997 May; 80(5):845–53

Formulation of poly(DL-lactide-co-glycolide) microspheres and their ingestion by bovine leukocytes. O'Brien CN, et al. **J Dairy Sci** 1996 Nov;79(11):1954–9

Vaccine against dental caries—a personal view. Bowen WH. **J Dent Res** 1996 Aug;75(8):1530–3 (32 ref.)

Vaccination against Helicobacter pylori. Lee A. **J Gastroenterol** 1996 Nov;31 Suppl 9:69–74 (50 ref.)

Factors associated with influenza and pneumococcal vaccination behavior among high-risk adults. Nichol KL, et al. **J Gen Intern Med** 1996 Nov;11(11):673–7

Therapeutic potential of human antisera to group B streptococcal glycoconjugate vaccines in neonatal mice. Paoletti LC, et al. **J Infect Dis** 1997 May;175(5):1237–9

Cloning, sequencing, characterisation and implications for vaccine design of the novel dihydrolipoyl acetyltransferase of Neisseria meningitidis. Ala' Aldeen DA, et al. **J Med Microbiol** 1996 Dec;45(6):419–32

Vaccines against bacterial zoonoses [editorial] Corbel MJ. **J Med Microbiol** 1997 Apr;46(4):267–9

Pseudomonas aeruginosa infection in patients with cystic fibrosis [letter; comment] Taccetti G, et al. **J Pediatr** 1996 Oct;129(4):619–20. Comment on: J Pediatr 1995 Nov;127(5):711–7.

Serologic responses of Brucella abortus strain 19 calfhood-vaccinated cattle following adult vaccination with strain RB51. Olsen SC, et al. **J Vet Diagn Invest** 1996 Oct;8(4):451–4

A field trial of oil adjuvanten trivalent Actinobacillus pleuropneumoniae vaccine. Oishi E, et al. **J Vet Med Sci** 1997 May;59(5):421–3

Effect of Bordetella bronchiseptica and serotype D Pasteurella multocida bacterin-toxoid on the occurrence of atrophic rhinitis after experimental infection with B. bronchiseptica and toxigenic type AP. multocida. Sakano T, et al. **J Vet Med Sci** 1997 Jan;59(1):55–7

The 1996 Albert Lasker Medical Research Awards. Prevention of systemic infections, especially meningitis, caused by Haemophilus influenzae type b. Impact on public health and implications for other polysaccharide-based vaccines. Robbins JB, et al. **JAMA** 1996 Oct 9; 276(14):1181–5

Double-blind vaccine-controlled randomised efficacy trial of an investigational Shigella sonnei conjugate vaccine in young adults. Cohen D, et al. **Lancet** 1997 Jan 18; 349(9046):155–9

"Love's labours lost": failure to implement mass vaccination against group A meningococcal meningitis in sub-Saharan Africa. Robbins JB, et al. **Lancet** 1997 Sep 20; 350(9081):880–2 (41 ref.)

Pneumococcal conjugate vaccines: review and update. Klein DL. **Microb Drug Resist** 1995 Spring;1(1):49–58 (66 ref.)

Control and prevention of meningococcal disease: recommendations of the Advisory Committee on Immunization Practices (ACIP). **MMWR Morb Mortal Wkly Rep** 1997 Feb 14; 46(RR-5):1–10

Control and prevention of serogroup C meningococcal disease: evaluation and management of suspected outbreaks: recommendations of the Advisory Committee on Immunization Practices (ACIP). **MMWR Morb Mortal Wkly Rep** 1997 Feb 14; 46(RR-5):13–21

Prevention of pneumococcal disease: recommendations of the Advisory Committee on Immunization Practices (ACIP). **MMWR Morb Mortal Wkly Rep** 1997 Apr 4; 46(RR-8):1–24

Pneumococcus (including childhood immunization) immunization/prophylaxis: recommendations for adults/older adults. **Nurse Pract** 1997 Feb;22(2):110–3 (15 ref.)

Issues and challenges: pneumococcal vaccination in pediatrics. Black S, et al. **Pediatr Ann** 1997 Jun;26(6):355–60 (16 ref.)

Vaccination against colonizing bacteria with multiple serotypes. Lipsitch M. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6571–6

Induction of mucosal immune responses against a heterologous antigen fused to filamentous hemagglutinin after intranasal immunization with recombinant Bordetella pertussis. Renauld-Mongénie G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7944–9

Prevention of Helicobacter pylori infection. Lee A. **Scand J Gastroenterol Suppl** 1996;215:11–5 (23 ref.)

Prevention of mucosal Escherichia coli infection by FimH-adhesin-based systemic vaccination [see comments] Langermann S, et al. **Science** 1997 Apr 25;276(5312):607–11 . Comment in: Science 1997 Apr 25;276(5312):533–4.

New vaccines may ward off urinary tract infections [news; comment] Service RF. **Science** 1997 Apr 25;276(5312):533 . Comment on: Science 1997 Apr 25;276(5312):607–11.

Treatment and prevention of Lyme disease, with emphasis on antimicrobial therapy for neuroborreliosis and vaccination. Wormser GP. **Semin Neurol** 1997 Mar; 17(1):45–52 (91 ref.)

Vaccine coverage of Streptococcus pneumoniae in Hong Kong with attention to the multiple-antibiotic-resistant strains. Luey KY, et al. **Vaccine** 1996 Dec; 14(17–18):1573–80

Development of combination vaccines [letter] Stanislavsky ES. **Vaccine** 1996 Feb;14(2):179

Immunoprophylaxis of Rhodococcus equi pneumonia in foals. Becú T, et al. **Vet Microbiol** 1997 Jun 16; 56(3–4):193–204

Competitive enzyme-linked immunosorbent assay using monoclonal antibodies to the Brucella melitensis BP26 protein to evaluate antibody responses in infected and B. melitensis Rev.1 vaccinated sheep. Debbarh HS, et al. **Vet Microbiol** 1996 Dec;53(3–4):325–37

Protective effect against Rhodococcus equi infection in mice of IgG purified from horses vaccinated with virulence associated protein (VapA)-enriched antigens. Fernandez AS, et al. **Vet Microbiol** 1997 Jun 16;56(3–4):187–92

Antigenic analysis of Rhodococcus equi preparations using different horse sera. Fontanals AM, et al. **Vet Microbiol** 1997 Jun 16;56(3–4):247–55

Immunogenicity of outer membrane protein of Pasteurella multocida in buffalo calves. Pati US, et al. **Vet Microbiol** 1996 Oct;52(3–4):301–11

Assessment of the immunogenic potential of Rhodococcus equi virulence associated protein (VapA) in mice. Prescott JF, et al. **Vet Microbiol** 1997 Jun 16;56(3–4):213–25

Evaluation of Chlamydia psittaci subfraction and subunit preparations for their protective capacities. Sandbulte J, et al. **Vet Microbiol** 1996 Feb;48(3–4):269–82

Role of fimbriae F18 for actively acquired immunity against porcine enterotoxigenic Escherichia coli. Sarrazin E, et al. **Vet Microbiol** 1997 Feb;54(2):133–44

Evaluation of efficacy of three commercial vaccines against experimental bovine pneumonic pasteurellosis. Srinand S, et al. **Vet Microbiol** 1996 Sep;52(1–2):81–9

Evaluation of an aroA mutant Salmonella typhimurium vaccine in chickens using modified semisolid Rappaport Vassiliadis medium to monitor faecal shedding. Tan S, et al. **Vet Microbiol** 1997 Mar;54(3–4):247–54

Prevention of Rhodococcus equi pneumonia of foals using two different inactivated vaccines. Varga J, et al. **Vet Microbiol** 1997 Jun 16;56(3–4):205–12

Comparative efficacy of Freund's and Montanide ISA50 adjuvants for the immunisation of goats against heartwater with inactivated Cowdria ruminantium. Martinez D, et al. **Vet Parasitol** 1996 Dec 31;67(3–4):175–84

Use of a live chlamydial vaccine to prevent ovine enzootic abortion. Chalmers WS, et al. **Vet Rec** 1997 Jul 19; 141(3):63–7

Vaccine research and development. New strategies for accelerating Shigella vaccine development. **Wkly Epidemiol Rec** 1997 Mar 14;72(11):73–9 **(Eng, Fre)**

[Vaccination in elderly patients in rehabilitation: a missed opportunity?] Büla CJ, et al. **Schweiz Med Wochenschr** 1996 Nov 30;126(48):2082–6 (Eng. Abstr.) **(Fre)**

[Vaccination of pigeons against Salmonella infections] Grund S, et al. **Berl Munch Tierarztl Wochenschr** 1997 May; 110(5):171–5 (Eng. Abstr.) **(Ger)**

[Immunization with potential Salmonella enteritidis mutants—1. Production and in vitro characterization] Martin G, et al. **Berl Munch Tierarztl Wochenschr** 1996 Sep;109(9):325–9 (Eng. Abstr.) **(Ger)**

[Immunization with potential Salmonella enteritidis mutants— 2. Investigations on the attenuation and immunogenicity for mice and young hens] Martin G, et al. **Berl Munch Tierarztl Wochenschr** 1996 Oct; 109(10):369–74 (Eng. Abstr.) **(Ger)**

[Field study with a vaccine against enzootic pneumonia of swine] Schatzmann E, et al. **Schweiz Arch Tierheilkd** 1996; 138(10):483–9 (Eng. Abstr.) **(Ger)**

[Use of Salmonellas as a vector in the designing of recombinant vaccines] Boĭchenko MN, et al. **Vestn Ross Akad Med Nauk** 1997;(3):43–6 (28 ref.) **(Rus)**

[The isolation amd study of lipopolysaccharide from Klebsiella pneumoniae vaccinal strain 204] Stukalova NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb; (1):39–42 (Eng. Abstr.) **(Rus)**

[New vaccines for wide usage] Mravunac B, et al. **Lijec Vjesn** 1997 Feb;119(2):72–6 (65 ref.) (Eng. Abstr.) **(Scr)**

[Is an antistreptococcal vaccine available at last? (editorial)] Reyes López PA. **Arch Inst Cardiol Mex** 1996 Sep–Oct; 66(5):387–9 **(Spa)**

ADMINISTRATION & DOSAGE

Combination vaccines. Ellis RW, et al. **Adv Pharmacol** 1997; 39:393–423 (60 ref.)

New pneumococcal-vaccine recommendations include strategies for increasing vaccine use [news] **Am J Health Syst Pharm** 1997 Aug 1;54(15):1688

Efficacy of a subcutaneously administered, ultraviolet light-killed Pasteurella haemolytica A1-containing vaccine against transthoracic challenge exposure in goats. Purdy CW, et al. **Am J Vet Res** 1996 Aug;57(8):1168–74

Cellular and humoral responses to microencapsulated Yersinia pestis subunit vaccines following oral delivery. Sharp GJ, et al. **Biochem Soc Trans** 1997 May;25(2):338S

Immunization of healthy adult subjects in the United States with inactivated Mycobacterium vaccae administered in a three-dose series. von Reyn CF, et al. **Clin Infect Dis** 1997 May;24(5):843–8

New Australian immunisation guidelines. **Commun Dis Intell** 1997 Mar 20;21(6):78–9 (0 ref.)

Enteric immunization: promises and challenges. Brown WR. **Dig Dis** 1996 May–Jun;14(3):192–200 (41 ref.)

Simultaneous influenza and pneumococcal vaccination in elderly individuals. Grilli G, et al. **Eur J Epidemiol** 1997 Apr;13(3):287–91

Immune response to Clostridium difficile infection. Kelly CP. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1048–53 (68 ref.)

Sensitization and reactogenicity of two doses of candidate antileprosy vaccine Mycobacterium w. Gupte MD, et al. **Indian J Lepr** 1996 Oct–Dec;68(4):315–24

Effectiveness of BC meningococcal vaccine in Brazil [letter; comment] Nishioka S. **Int J Epidemiol** 1996 Oct; 25(5):1102–3. Comment on: Int J Epidemiol 1995 Oct;24(5):1050–7.

Effect of orally administered heat-killed Enterococcus Faecalis FK-23 preparation on neutropenia in dogs treated with cyclophosphamide. Hasegawa T, et al. **Int J Immunopharmacol** 1996 Feb;18(2):103–12

Immunotherapy of lepromin-negative borderline leprosy patients with low-dose Convit vaccine as an adjunct to multidrug therapy; a six-year follow-up study in Calcutta. Chaudhury S, et al. **Int J Lepr Other Mycobact Dis** 1997 Mar;65(1):56–62

Vaccination schedules to raise antibody concentrations against epsilon-toxin of Clostridium perfringens in ewes and their triplet lambs. de la Rosa C, et al. **J Anim Sci** 1997 Sep;75(9):2328–34

Oral immunization of rabbits against Pasteurella multocida with an alginate microsphere delivery system. Suckow MA, et al. **J Biomater Sci Polym Ed** 1996;8(2):131–9

Effects of Trypanosoma evansi on the output of cells from a lymph node draining the site of Pasteurella haemolytica vaccine administration. Onah DN, et al. **J Comp Pathol** 1997 Jul;117(1):73–82

The combined value of chemoprophylaxis and pneumococcal vaccine in the prevention of recurrent pneumococcal meningitis. Hristea A, et al. **J Infect** 1997 May;34(3):265–7

Immunization of Macaca mulatta with aroA attenuated Salmonella typhimurium expressing the SIVp27 antigen. Steger KK, et al. **J Med Primatol** 1997 Feb–Apr; 26(1–2):44–50

Vaginal mucosal immunization for recurrent urinary tract infection: phase II clinical trial. Uehling DT, et al. **J Urol** 1997 Jun;157(6):2049–52

From the Centers for Disease Control and Prevention. Pneumococcal and influenza vaccination levels among adults aged > or = 65 years—United States, 1993. **JAMA** 1996 Nov 20;276(19):1544–5

Effective vaccination of mice against Mycobacterium leprae with density-gradient subfractions of soluble M. leprae proteins: clues to effective protein epitopes. Gelber RH, et al. **Lepr Rev** 1994 Sep;65(3):175–80

Lymphostimulatory and delayed-type hypersensitivity responses to a candidate leprosy vaccine strain: Mycobacterium habana. Singh NB, et al. **Lepr Rev** 1997 Jun;68(2):125–30

Epidemiology of pneumococcal serotypes and conjugate vaccine formulations. Butler JC. **Microb Drug Resist** 1997 Summer;3(2):125–9 (44 ref.)

Pneumococcal and influenza vaccination levels among adults aged > or = 65 years—United States, 1993. **MMWR Morb Mortal Wkly Rep** 1996 Oct 11;45(40):853–9

Pneumococcal vaccination of children with recurrent sinusitis. Giebink GS. **Pediatr Infect Dis J** 1997 May; 16(5):535–6

Needle length and injection technique for efficient intramuscular vaccine delivery in infants and children evaluated through an ultrasonographic determination of subcutaneous and muscle layer thickness. Groswasser J, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):400–3

Experimental study of the mixed (oral–intradermal) vaccination method in enteric diseases. Dimache G, et al. **Roum Arch Microbiol Immunol** 1996 Jul–Sep;55(3):215–23

Parenteral vaccination of mice and piglets with F4+ Escherichia coli suppresses the enteric anti-F4 response

upon oral infection. Bianchi AT, et al. **Vaccine** 1996 Feb; 14(3):199–206

Vaccinator device for delivering propellant–driven aerosols of Streptococcus suis bacterin into the respiratory tracts of swine. Brown AR, et al. **Vaccine** 1997 Aug; 15(11):1165–73

Mycoplasma pneumoniae reinfection and vaccination: protective oral vaccination and harmful immunoreactivity after re–infection and parenteral immunization. Cimolai N, et al. **Vaccine** 1996 Oct;14(15):1479–83

A randomized, placebo–controlled study of oral cimetidine as an immunopotentiator of parenteral immunization with a group B meningococcal vaccine. Drabick JJ, et al. **Vaccine** 1997 Jul;15(10):1144–8

Adjuvant properties of non–phospholipid liposomes (Novasomes) in experimental animals for human vaccine antigens [published erratum appears in Vaccine 1996 Jun;14(8):1] Gupta RK, et al. **Vaccine** 1996 Feb; 14(3):219–25

Associations of prevaccination antibody levels with adverse reactions to pneumococcal and influenza vaccines administered simultaneously in the elderly. Sankilampi U, et al. **Vaccine** 1997 Jul;15(10):1133–7

Prevention of necrotic enteritis in piglets by vaccination of pregnant gilts with a Clostridium perfringens type C and D bacterin–toxoid. Kelnerić Z, et al. **Vet Med (Praha)** 1996 Nov;41(11):335–8

Evaluation of protein A and protein G as indicator system in an ELISA for detecting antibodies in mink to Pseudomonas aeruginosa. Rivera E, et al. **Vet Microbiol** 1994 Dec;42(4):265–71

[Pneumococcal vaccination after splenectomy (letter; comment)] Ejstrud P. **Ugeskr Laeger** 1996 Dec 16; 158(51):7430–1. Comment on: Ugeskr Laeger 1996 Oct 21;158(43):6069. **(Dan)**

[Pneumococcal vaccination and diabetes (letter)] Justesen T, et al. **Ugeskr Laeger** 1997 May 12;159(20):3029–31 **(Dan)**

[The Danish vaccination program for children] Rønne T. **Ugeskr Laeger** 1997 Mar 10;159(11):1584–5 **(Dan)**

[Pneumococcal vaccination after heart and liver transplantation. Immune responses in immunosuppressed patients and in healthy controls] Dengler TJ, et al. **Dtsch Med Wochenschr** 1996 Dec 6;121(49):1519–25 (Eng. Abstr.) **(Ger)**

[Pneumococcal vaccination—why so rare?] Persili SA, et al. **Schweiz Rundsch Med Prax** 1997 Jul 2;86(27–28):1097–100 (34 ref.) (Eng. Abstr.) **(Ger)**

[Protectiopn against pneumococcal disease (letter)] Aavitsland P, et al. **Tidsskr Nor Laegeforen** 1996 Nov 30; 116(29):3528 **(Nor)**

[Protection against pneumococcal disease. The vaccine is not the same as the influenza vaccine (letter)] Andersen BM. **Tidsskr Nor Laegeforen** 1997 Jan 10;117(1):95 **(Nor)**

[Selected immune response parameters in respiratory tract infections in mice—effect of combined treatment with tienamycin and coparvax] Korczak E, et al. **Pneumonol Alergol Pol** 1996;64(5–6):303–8 (Eng. Abstr.) **(Pol)**

[The immunotherapy of bronchial asthma with a multicomponent vaccine administered intranasally and orally] Chuchalin AK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):84–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Side effects associated with pneumococcal vaccination. Nichol KL, et al. **Am J Infect Control** 1997 Jun;25(3):223–8

Systemic adverse reactions in young Simmental calves following administration of a combination vaccine. Ellis JA, et al. **Can Vet J** 1997 Jan;38(1):45–7

Effect of vaccination with an Escherichia coli bacterin–toxoid on milk production in dairy cattle. Musser JM, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1291–3

Mycobacterium bovis dissemination (BCG strain) among immunodeficient Brazilian infants. Jacob CM, et al. **J Investig Allergol Clin Immunol** 1996 May–Jun;6(3):202–6

Assessments of plasma HIV RNA and CD4 cell counts after combined Pneumovax and tetanus toxoid vaccination: no detectable increase in HIV replication 6 weeks after immunization. Katzenstein TL, et al. **Scand J Infect Dis** 1996;28(3):239–41

Associations of prevaccination antibody levels with adverse reactions to pneumococcal and influenza vaccines administered simultaneously in the elderly. Sankilampi U, et al. **Vaccine** 1997 Jul;15(10):1133–7

Safety and immunogenicity of a Pseudomonas aeruginosa outer membrane protein I vaccine in human volunteers. von Specht BU, et al. **Vaccine** 1996 Aug;14(12):1111–7

[Delayed hypersensitivity in man after booster anthrax vaccination] Shlyakhov E, et al. **Med Trop (Mars)** 1996; 56(2):148–50 (Eng. Abstr.) **(Fre)**

ANALYSIS

Quantification of bovine albumin fraction V in cellular antigens of antileptospirosical Cuban vaccine vaxSpiral. Valdés González T, et al. **Arch Med Res** 1997 Autumn; 28(3):373–6

BIOSYNTHESIS

High–level heterologous expression and secretion in rapidly growing nonpathogenic mycobacteria of four major Mycobacterium tuberculosis extracellular proteins considered to be leading vaccine candidates and drug targets. Harth G, et al. **Infect Immun** 1997 Jun;65(6):2321–8

Shigellosis: from molecular pathogenesis of infection to protective immunity and vaccine development. Sansonetti P, et al. **Res Immunol** 1996 Oct–Dec;147(8–9):595–602 (61 ref.)

CHEMICAL SYNTHESIS

Changing streptococci and prospects for the global eradication of rheumatic fever. Stollerman GH. **Perspect Biol Med** 1997 Winter;40(2):165–89 (113 ref.)

CHEMISTRY

Physicochemical studies of the structure and stability of polysaccharide–protein conjugate vaccines. Jones C, et al. **Dev Biol Stand** 1996;87:143–51

Activation of soluble polysaccharides with 1–cyano–4–dimethylaminopyridinium tetrafluoroborate for use in protein–polysaccharide conjugate vaccines and immunological reagents. Lees A, et al. **Vaccine** 1996 Feb; 14(3):190–8

[The molecular parameters of a meningococcal serogroup B protein–polysaccharide vaccine] Bobyleva GV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):39–43 (Eng. Abstr.) **(Rus)**

[The fractional composition of hydroxylamine preparations and of the lipopolysaccharide of a vaccinal strain of Klebsiella pneumoniae] Miriasova LV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):73–6 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

The immune response against Francisella tularensis live vaccine strain in Lps(n) and Lps(d) mice. Macela A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):235–8

ECONOMICS

Cost–benefit analysis of vaccination against paratuberculosis in dairy cattle. van Schaik G, et al. **Vet Rec** 1996 Dec 21–28;139(25):624–7

[Influenza vaccine and pneumococcal vaccine covered by health insurance (letter)] Eitrem R. **Lakartidningen** 1997 Sep 3;94(36):3017 **(Swe)**

GENETICS

The defined attenuated Listeria monocytogenes delta mp12 mutant is an effective oral vaccine carrier to trigger a long–lasting immune response against a mouse fibrosarcoma. Paglia P, et al. **Eur J Immunol** 1997 Jun; 27(6):1570–5

Safety of live oral Salmonella typhi vaccine strains with deletions in htrA and aroC aroD and immune response in humans. Tacket CO, et al. **Infect Immun** 1997 Feb; 65(2):452–6

Influence of different rol gene products on the chain length of Shigella dysenteriae type 1 lipopolysaccharide O antigen expressed by Shigella flexneri carrier strains. Klee SR, et al. **J Bacteriol** 1997 Apr;179(7):2421–5

Towards a vaccine candidate against Shigella dysenteriae 1: expression of the Shiga toxin B–subunit in an attenuated Shigella flexneri aroD carrier strain. Tzschaschel BD, et al. **Microb Pathog** 1996 Oct;21(4):277–88

Construction and characterization of virG (icsA)–deleted Escherichia coli K12–Shigella flexneri hybrid vaccine strains. Alexander WA, et al. **Vaccine** 1996 Aug; 14(11):1053–61

Recombinant, octavalent group A streptococcal M protein vaccine. Dale JB, et al. **Vaccine** 1996 Jul;14(10):944–8

Further molecular characterization and stability of the live oral attenuated cholera vaccine strain CVD103–HgR. Favre D, et al. **Vaccine** 1996 Apr;14(6):526–31

Evaluation of a phoP/phoQ–deleted, aroA–deleted live oral Salmonella typhi vaccine strain in human volunteers. Hohmann EL, et al. **Vaccine** 1996 Jan;14(1):19–24

[The pathogenicity factors of Shigella studied as the bases for the design of diagnostic and prophylactic preparations] Bondarenko VM. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun;(3):29–34 (71 ref.) (Eng. Abstr.) **(Rus)**

[The gentic principles for the design of live Salmonella vaccines] Petrovskaia VG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun; (3):25–8 (47 ref.) (Eng. Abstr.) **(Rus)**

HISTORY

Polysaccharide vaccines: determinants of clinical efficacy. Musher DM. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):37–8, 41–4, 52–3 passim

Joseph–Alexandre Auzias–Turenne, Louis Pasteur, and early concepts of virulence, attenuation, and vaccination. Burke DS. **Perspect Biol Med** 1996 Winter;39(2):171–86

IMMUNOLOGY

Autoimmune component in individuals during immune response to inactivated combined vaccine against Q fever. Krutitskaya L, et al. **Acta Virol** 1996 Sep;40(4):173–7

Changes in spleen and thymus cell phenotypes in mice vaccinated with the Coxiella burnetii phase I whole–cell vaccine or the chloroform–methanol residue subunit vaccine. Waag DM, et al. **Acta Virol** 1996 Apr;40(2):87–94

Efficacy of a subcutaneously administered, ultraviolet light–killed Pasteurella multocida A:3–containing bacterin against transthoracic challenge exposure in goats. Purdy CW, et al. **Am J Vet Res** 1997 Aug;58(8):841–7

Protective immunity to Listeria monocytogenes elicited by immunization with heat–killed Listeria and IL–12. Potential mechanism of IL–12 adjuvanticity. Miller MA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:207–27

Antibody responses of rats and humans to flagella–less cells and OspA protein of Borrelia burgdorferi. Sadziene A, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:140–50

Molecular biology and vaccine aspects of bacterial immunoglobulin A1 proteases. Lomholt H. **APMIS Suppl** 1996;62:5–28 (125 ref.)

The hyperferremic mouse model for the evaluation of the effectiveness of VA–MENGOC–BC against Neisseria meningitidis B clinical isolates. Sifontes S, et al. **Arch Med Res** 1997 Spring;28(1):41–5

Progress in an oral vaccine for amebiasis. Expression of the serine rich Entamoeba histolytica protein (SREHP) in the avirulent vaccine strain Salmonella typhi TY2 chi 4297 (delta cya delta crp delta asd): safety and immunogenicity in mice. Zhang T, et al. **Arch Med Res** 1997;28 Spec No:269–71

The timing of immunization affects the development of diabetes in rodents. Classen JB. **Autoimmunity** 1996; 24(3):137–45

Standardized method of aerosol challenge for testing the efficacy of Mycoplasma gallisepticum vaccines. Whithear KG, et al. **Avian Dis** 1996 Jul–Sep;40(3):654–60

Protective activity of rabbit polyclonal anti–idiotype antibody against Leptospira interrogans infection in hamsters. Masuzawa T, et al. **Biol Pharm Bull** 1996 Apr; 19(4):613–5

Induction of an antibody response in mice against human papillomavirus (HPV) type 16 after immunization with HPV recombinant Salmonella strains. Krul MR, et al. **Cancer Immunol Immunother** 1996 Sep;43(1):44–8

Humoral immune response against lipopolysaccharide and cytoplasmic proteins of Brucella abortus in cattle vaccinated with B. abortus S19 or experimentally infected with Yersinia enterocolitica serotype 0:9. Baldi PC, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):472–6

Detection of antibodies to Shigella lipopolysaccharide in urine after natural Shigella infection or vaccination. Cohen D, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):451–5

Antigenic diversity of meningococcal outer membrane protein PorA has implications for epidemiological analysis and vaccine design. Feavers IM, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):444–50

Characterization of specific immunoglobulin G (IgG) and its subclasses (IgG1 and IgG2) against the 23–valent pneumococcal vaccine in a healthy adult population: proposal for response criteria. Rodrigo MJ, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):168–72

Vaccine–induced IgG antibodies to the linear epitope on the PorB outer membrane protein promote opsonophagocytosis of Neisseria meningitidis by human neutrophils. Delvig AA, et al. **Clin Immunol Immunopathol** 1997 Jul;84(1):27–35

The lack of association between aging and postvaccination levels of IgG antibody to capsular polysaccharides of Streptococcus pneumoniae. Musher DM, et al. **Clin Infect Dis** 1996 Jan;22(1):165–7

Partial correction of the TH2/TH1 imbalance in neonatal murine responses to vaccine antigens through selective adjuvant effects. Barrios C, et al. **Eur J Immunol** 1996 Nov; 26(11):2666–70

The defined attenuated Listeria monocytogenes delta mp12 mutant is an effective oral vaccine carrier to trigger a long–lasting immune response against a mouse fibrosarcoma. Paglia P, et al. **Eur J Immunol** 1997 Jun; 27(6):1570–5

Live tularemia vaccine confers protection against lethal Legionella and Listeria infections in experimental animals. Belyi YF, et al. **FEMS Immunol Med Microbiol** 1996 Mar; 13(3):211–3

Outer membranes of a lipopolysaccharide–protein complex (LPS–17 kDa protein) as chemical tularemia vaccines. Khlebnikov VS, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):227–33

The new vaccine strains (or variants) of Francisella tularensis. Kormilitsyna MI, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):215–9

The immune response against Francisella tularensis live vaccine strain in Lps(n) and Lps(d) mice. Macela A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):235–8

Antibody studies in mice of outer membrane antigens for use in an improved meningococcal B and C vaccine. Milagres LG, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):9–17

Epitope specificity of murine and human bactericidal antibodies against PorA P1.7,16 induced with experimental meningococcal group B vaccines. Rouppe van der Voort EM, et al. **FEMS Immunol Med Microbiol** 1997 Mar; 17(3):139–48

R–form lipopolysaccharides (LPS) of Gram–negative bacteria as possible vaccine antigens. Stanislavsky ES, et al. **FEMS Immunol Med Microbiol** 1997 Jul;18(3):139–45

Immunogenicity of a new lot of Francisella tularensis live vaccine strain in human volunteers. Waag DM, et al.

FEMS Immunol Med Microbiol 1996 Mar;13(3):205–9
The major outer membrane protein, CD, extracted from Moraxella (Branhamella) catarrhalis is a potential vaccine antigen that induces bactericidal antibodies. Yang YP, et al. **FEMS Immunol Med Microbiol** 1997 Mar;17(3):187–99
Localization by immunoelectron microscopy of antigens of Chlamydia psittaci suitable for diagnosis or vaccine development. Buendia AJ, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):113–9
Correlates of protection induced by live Aro– Salmonella typhimurium vaccines in the murine typhoid model. Harrison JA, et al. **Immunology** 1997 Apr;90(4):618–25
Post–vaccination sensitization with ICRC vaccine. Vallishayee RS, et al. **Indian J Lepr** 1996 Apr–Jun; 68(2):167–74
Protective immunity against Salmonella typhimurium elicited in mice by oral vaccination with phosphorylcholine encapsulated in poly(DL–lactide–co–glycolide) microspheres. Allaoui–Attarki K, et al. **Infect Immun** 1997 Mar;65(3):853–7
Temperature–sensitive mutants of Actinobacillus pleuropneumoniae induce protection in mice. Byrd W, et al. **Infect Immun** 1997 Jun;65(6):2206–10
Safety and immunogenicity of investigational Shigella conjugate vaccines in Israeli volunteers. Cohen D, et al. **Infect Immun** 1996 Oct;64(10):4074–7
Preclinical evaluation of group B Neisseria meningitidis and Escherichia coli K92 capsular polysaccharide–protein conjugate vaccines in juvenile rhesus monkeys. Devi SJ, et al. **Infect Immun** 1997 Mar;65(3):1045–52
Oral immunization of mice with attenuated Salmonella typhimurium aroA expressing a recombinant Mycoplasma hyopneumoniae antigen (NrdF). Fagan PK, et al. **Infect Immun** 1997 Jun;65(6):2502–7
Antibody– and cell–mediated immune responses of Actinobacillus pleuropneumoniae–infected and bacterin–vaccinated pigs. Furesz SE, et al. **Infect Immun** 1997 Feb;65(2):358–65
Cellular basis of decreased immune responses to pneumococcal vaccines in aged mice. Garg M, et al. **Infect Immun** 1996 Nov;64(11):4456–62
Reactivity with a specific epitope of outer surface protein A predicts protection from infection with the Lyme disease spirochete, Borrelia burgdorferi. Golde WT, et al. **Infect Immun** 1997 Mar;65(3):882–9
Prolonged and preferential production of polymeric immunoglobulin A in response to Streptococcus pneumoniae capsular polysaccharides. Johnson S, et al. **Infect Immun** 1996 Oct;64(10):4339–44
Construction and characterization of a live attenuated vaccine candidate against Shigella dysenteriae type 1. Klee SR, et al. **Infect Immun** 1997 Jun;65(6):2112–8
Synthesis and immunological properties of Vi and di–O–acetyl pectin protein conjugates with adipic acid dihydrazide as the linker. Kossaczka Z, et al. **Infect Immun** 1997 Jun;65(6):2088–93
Safety, immunogenicity, and transmissibility in humans of CVD 1203, a live oral Shigella flexneri 2a vaccine candidate attenuated by deletions in aroA and virG. Kotloff KL, et al. **Infect Immun** 1996 Nov;64(11):4542–8
Immunogenicity and efficacy against lethal aerosol staphylococcal enterotoxin B challenge in monkeys by intramuscular and respiratory delivery of proteosome–toxoid vaccines. Lowell GH, et al. **Infect Immun** 1996 Nov;64(11):4686–93
V antigen–polyhistidine fusion peptide: binding to LcrH and active immunity against plague. Motin VL, et al. **Infect Immun** 1996 Oct;64(10):4313–8
Lymphocyte proliferative responses of goats vaccinated with Brucella melitensis 16M or a delta purE201 strain. Olsen SC, et al. **Infect Immun** 1997 Jul;65(7):2987–91
Immunization with an acellular vaccine consisting of the outer membrane complex of Chlamydia trachomatis induces protection against a genital challenge. Pal S, et al. **Infect Immun** 1997 Aug;65(8):3361–9
Protective immunity against Clostridium difficile toxin A induced by oral immunization with a live, attenuated Vibrio cholerae vector strain. Ryan ET, et al. **Infect Immun** 1997 Jul;65(7):2941–9
Attenuation and vaccine potential of aroQ mutants of Corynebacterium pseudotuberculosis. Simmons CP, et al. **Infect Immun** 1997 Aug;65(8):3048–56
A recombinant Bacillus anthracis strain producing the Clostridium perfringens Ib component induces protection against iota toxins. Sirard JC, et al. **Infect Immun** 1997 Jun; 65(6):2029–33
Safety of live oral Salmonella typhi vaccine strains with deletions in htrA and aroC aroD and immune response in humans. Tacket CO, et al. **Infect Immun** 1997 Feb; 65(2):452–6
Safety and immunogenicity in humans of an attenuated Salmonella typhi vaccine vector strain expressing plasmid–encoded hepatitis B antigens stabilized by the Asd–balanced lethal vector system. Tacket CO, et al. **Infect Immun** 1997 Aug;65(8):3381–5
Oral immunization with the saliva–binding region of Streptococcus mutans AgI/II genetically coupled to the cholera toxin B subunit elicits T–helper–cell responses in gut–associated lymphoid tissues. Toida N, et al. **Infect Immun** 1997 Mar;65(3):909–15
Immunization with FimA protects against Streptococcus parasanguis endocarditis in rats. Viscount HB, et al. **Infect Immun** 1997 Mar;65(3):994–1002
Bactericidal antibody responses of juvenile rhesus monkeys immunized with group B Neisseria meningitidis capsular polysaccharide–protein conjugate vaccines. Zollinger WD, et al. **Infect Immun** 1997 Mar;65(3):1053–60
Oral immunization with poly–(D,L–lactide–co–glycolide) and poly–(L–lactic acid) microspheres containing pneumotropic bacterial antigens. Kofler N, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):424–31
BCG vaccination prevents insulin–dependent diabetes mellitus (IDDM) in NOD mice after disease acceleration with cyclophosphamide. Qin HY, et al. **J Autoimmun** 1997 Jun;10(3):271–8
Quantitation of IgG subclass antibody responses after immunization with a group B meningococcal outer membrane vesicle vaccine, using monoclonal mouse–human chimeric antibodies as standards. Naess LM, et al. **J Immunol Methods** 1996 Sep 13;196(1):41–9
Neisseria meningitidis: vaccines and vaccine candidates. Al'Aldeen AA, et al. **J Infect** 1996 Nov;33(3):153–7 (23 ref.)
Infant immunization with pneumococcal CRM197 vaccines: effect of saccharide size on immunogenicity and interactions with simultaneously administered vaccines. Daum RS, et al. **J Infect Dis** 1997 Aug;176(2):445–55
Responsiveness of human immunodeficiency virus type 1–infected Kenyan women with or without prior pneumococcal disease to pneumococcal vaccine. Janoff EN, et al. **J Infect Dis** 1997 Apr;175(4):975–8
Safety and immunogenicity of live oral cholera and typhoid vaccines administered alone or in combination with antimalarial drugs, oral polio vaccine, or yellow fever vaccine. Kollaritsch H, et al. **J Infect Dis** 1997 Apr; 175(4):871–5
Induction of immunologic memory in Gambian children by vaccination in infancy with a group A plus group C meningococcal polysaccharide–protein conjugate vaccine. Leach A, et al. **J Infect Dis** 1997 Jan;175(1):200–4
An OspA–based DNA vaccine protects mice against infection with Borrelia burgdorferi. Luke CJ, et al. **J Infect Dis** 1997 Jan;175(1):91–7
Identification of cross–reactive antibodies with low opsonophagocytic activity for Streptococcus pneumoniae. Nahm MH, et al. **J Infect Dis** 1997 Sep;176(3):698–703
Characterization of the protective borreliacidal antibody response in humans and hamsters after vaccination with a Borrelia burgdorferi outer surface protein A vaccine. Padilla ML, et al. **J Infect Dis** 1996 Oct;174(4):739–46
Epidemiology of invasive pneumococcal disease in southern California: implications for the design and conduct of a pneumococcal conjugate vaccine efficacy trial. Zangwill KM, et al. **J Infect Dis** 1996 Oct;174(4):752–9
Genetic regulation of the capacity to make immunoglobulin G to pneumococcal capsular polysaccharides. Musher DM, et al. **J Investig Med** 1997 Feb;45(2):57–68
Antibacterial vaccines: impact of antigen handling and immune response. Kaufmann SH. **J Mol Med** 1997 May; 75(5):360–3 (17 ref.)
Serotype–specific immunoglobulin G antibody responses to pneumococcal polysaccharide vaccine in children with sickle cell anemia: effects of continued penicillin prophylaxis [see comments] Bjornson AB, et al. **J Pediatr** 1996 Dec;129(6):828–35. Comment in: J Pediatr 1996 Dec;129(6):788–9.
A multivalent minigene vaccine, containing B–cell, cytotoxic T–lymphocyte, and Th epitopes from several microbes, induces appropriate responses in vivo and confers protection against more than one pathogen. An LL, et al. **J Virol** 1997 Mar;71(3):2292–302
Lymphostimulatory and delayed–type hypersensitivity responses to a candidate leprosy vaccine strain: Mycobacterium habana. Singh NB, et al. **Lepr Rev** 1997 Jun;68(2):125–30
Immunoprophylactic properties of 71–kDa cell wall–associated protein antigen of Mycobacterium tuberculosis H37Ra. Dhiman N, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):45–51
Construction and characterization of genetically–marked bivalent anti–Shigella dysenteriae 1 and anti–Shigella flexneri Y live vaccine candidates. Klee SR, et al. **Microb Pathog** 1997 Jun;22(6):363–76
Oral immunization with an anti–idiotypic antibody to the exoglycolipid antigen protects against experimental Chlamydia trachomatis infection. Whittum–Hudson JA, et al. **Nat Med** 1996 Oct;2(10):1116–21
Peripheral blood lymphocyte proliferative responses in cattle infected with or vaccinated against Anaplasma marginale. Gale KR, et al. **Parasitol Res** 1996;82(6):551–62
Pentavalent pneumococcal oligosaccharide conjugate vaccine PncCRM is well–tolerated and able to induce an antibody response in infants. Ahman H, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):134–9
Antigen excretion in the urine after pneumococcal vaccination. Kelley R, et al. **Pediatr Infect Dis J** 1997 Jul; 16(7):720
Comparison of the safety and immunogenicity of a pneumococcal conjugate with a licensed polysaccharide vaccine in human immunodeficiency virus and non–human immunodeficiency virus–infected children. King JC Jr, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):192–6
Evaluation of a pentavalent conjugated pneumococcal vaccine in toddlers. Pichichero ME, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):72–4
Post–immunization pneumococcal antibody titers and IgG subclasses. Sorensen RU, et al. **Pediatr Pulmonol** 1996 Sep; 22(3):167–73
Safety and immunogenicity of three doses of a five–valent pneumococcal conjugate vaccine in children younger than two years with and without human immunodeficiency virus infection. King JC Jr, et al. **Pediatrics** 1997 Apr; 99(4):575–80
Genetic differences and heritability of antibody response to Escherichia coli vaccination in young broiler chicks. Yonash N, et al. **Poult Sci** 1996 Jun;75(6):683–90
Experimental immunization of hamsters with an EDTA extract of Leptospira interrogans, serovar icterohaemorrhagiae. de Queiroz–Leite LT, et al. **Rev Latinoam Microbiol** 1996 Jan–Mar;38(1):39–43
Circulating antibody secreting cells and humoral antibody response after parenteral immunization with a meningococcal polysaccharide vaccine. Nieminen T, et al. **Scand J Infect Dis** 1996;28(1):53–8
Construction and characterization of virG (icsA)–deleted Escherichia coli K12–Shigella flexneri hybrid vaccine strains. Alexander WA, et al. **Vaccine** 1996 Aug; 14(11):1053–61
Outer membrane vesicle vaccines made from short–chain lipopolysaccharide mutants of serogroup B Neisseria meningitidis: effect of the carbohydrate chain length on the immune response. Andersen SR, et al. **Vaccine** 1997 Aug;15(11):1225–34
Immunization of mice with DNA encoding fragment C of tetanus toxin. Anderson R, et al. **Vaccine** 1997 Jun; 15(8):827–9
Neisseria gonorrhoeae: vaginal clearance and its correlation with resistance to infection in subcutaneous chambers in orally immunized estradiol–primed mice. Arko RJ, et al. **Vaccine** 1997 Aug–Sep;15(12–13):1344–8
Oral delivery of foreign antigens by attenuated Salmonella: consequences of prior exposure to the vector strain. Attridge SR, et al. **Vaccine** 1997 Feb;15(2):155–62
PspA, a protection–eliciting pneumococcal protein: immunogenicity of isolated native PspA in mice. Briles DE, et al. **Vaccine** 1996 Jun;14(9):858–67
Mycoplasma pneumoniae reinfection and vaccination: protective oral vaccination and harmful immunoreactivity after re–infection and parenteral immunization. Cimolai N, et al. **Vaccine** 1996 Oct;14(15):1479–83
Production, characterization and control of a Neisseria meningitidis hexavalent class 1 outer membrane protein containing vesicle vaccine. Claassen I, et al. **Vaccine** 1996 Jul;14(10):1001–8
Serum antibody responses of cattle vaccinated with partially purified native Pasteurella haemolytica leukotoxin. Confer AW, et al. **Vaccine** 1997 Aug–Sep;15(12–13):1423–9
Further molecular characterization and stability of the live oral attenuated cholera vaccine strain CVD103–HgR. Favre D, et al. **Vaccine** 1996 Apr;14(6):526–31
Cross protective immunity conferred by a marker–free aroA mutant of Pasteurella multocida. Homchampa P, et al. **Vaccine** 1997 Feb;15(2):203–8
The impact of vaccination strategy and methods of information on influenza and pneumococcal vaccination coverage in the elderly population. Honkanen PO, et al. **Vaccine** 1997 Feb;15(3):317–20
Nasal immunization with group B streptococci can induce high levels of specific IgA antibodies in cervicovaginal secretions of mice. Hordnes K, et al. **Vaccine** 1997 Aug; 15(11):1244–51
Characterization of the gene encoding Mhp1 from Mycoplasma hyopneumoniae and examination of Mhp1's vaccine potential. King KW, et al. **Vaccine** 1997 Jan; 15(1):25–35
Oral delivery of purified lipoprotein OspA protects mice from systemic infection with Borrelia burgdorferi. Luke CJ, et al. **Vaccine** 1997 Apr–May;15(6–7):739–46
Endotoxicity does not limit the use of bacterial ghosts as candidate vaccines. Mader HJ, et al. **Vaccine** 1997 Feb; 15(2):195–202
Antibody response to Actinobacillus pleuropneumoniae antigens after vaccination of pigs bred for high and low immune response. Magnusson U, et al. **Vaccine** 1997 Jun; 15(9):997–1000
Commensal bacteria as vectors for mucosal vaccines against sexually transmitted diseases: vaginal colonization with recombinant streptococci induces local and systemic antibodies in mice. Medaglini D, et al. **Vaccine** 1997 Aug–Sep;15(12–13):1330–7
Recombinant Opc meningococcal protein, folded in vitro, elicits bactericidal antibodies after immunization. Musacchio A, et al. **Vaccine** 1997 Apr–May;15(6–7):751–8
Immunization of mice with recombinant L7/L12 ribosomal protein confers protection against Brucella abortus infection. Oliveira SC, et al. **Vaccine** 1996 Jul;14(10):959–62
Protective immunization against Helicobacter stimulates long–term immunity. Radcliff FJ, et al. **Vaccine** 1996 Jun; 14(8):780–4
Tagging a Vibrio cholerae El Tor candidate vaccine strain by disruption of its hemagglutinin/protease gene using a novel reporter enzyme: Clostridium thermocellum endoglucanase A. Robert A, et al. **Vaccine** 1996 Nov; 14(16):1517–22
Enhanced antibody response in cattle against Leptospira hardjo by intradermal vaccination. Samina I, et al.

Vaccine 1997 Aug–Sep;15(12–13):1434–6

Anthrax post–vaccinal cell–mediated immunity in humans: kinetics pattern. Shlyakhov E, et al. **Vaccine** 1997 Apr–May;15(6–7):631–6

Suppression of delayed–type hypersensitivity and IgE antibody responses to ovalbumin by intranasal administration of Escherichia coli heat–labile enterotoxin B subunit–conjugated ovalbumin. Tamura S, et al. **Vaccine** 1997 Feb;15(2):225–9

Cross–reactivity of Shigella flexneri serotype 2a O antigen antibodies following immunization or infection. Van De Verg LL, et al. **Vaccine** 1996 Aug;14(11):1062–8

Evaluation of the safety, reactogenicity and immunogenicity of three recombinant outer surface protein (OspA) lyme vaccines in healthy adults. Van Hoecke C, et al. **Vaccine** 1996 Dec;14(17–18):1620–6

Protection, humoral and cell–mediated immune responses in calves immunized with multiple emulsion haemorrhagic septicaemia vaccine. Verma R, et al. **Vaccine** 1997 Aug; 15(11):1254–60

Safety and immunogenicity of a Pseudomonas aeruginosa outer membrane protein I vaccine in human volunteers. von Specht BU, et al. **Vaccine** 1996 Aug;14(12):1111–7

Local and systemic immune response to a microencapsulated sub–unit vaccine for plague. Williamson ED, et al. **Vaccine** 1996 Dec;14(17–18):1613–9

Nonrecombinant and recombinant avirulent Salmonella vaccines for poultry. Curtiss R 3rd, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):365–72 (40 ref.)

Development and efficacy of a vaccine against Streptococcus iniae infection in farmed rainbow trout. Eldar A, et al. **Vet Immunol Immunopathol** 1997 May;56(1–2):175–83

Protection against bacterial infection by urea extracts from Salmonella. Schlecht S, et al. **Zentralbl Bakteriol** 1996 Aug; 284(4):559–64

[Expression of S.sonnei form I antigen gene and V.cholerae toxin B subunit gene in S.flexneri 2a strain and investigation of their immunoprotective response in mice] Qian F, et al. **I Chuan Hsueh Pao** 1996;23(4):322–8 (Eng. Abstr.) **(Chi)**

[Evaluation of systematic anti–meningococcal vaccination strategy in French military recruits] Spiegel A, et al. **Sante** 1996 Nov–Dec;6(6):383–8 (Eng. Abstr.) **(Fre)**

[Stimulation of synthesis of secretory immunoglobulin A in the lung by oral immunization: an approach with therapeutic relevance?] Kofler N, et al. **Wien Klin Wochenschr** 1996;108(14):432–7 (Eng. Abstr.) **(Ger)**

[Immune mechanism of mucous membrane and mucous membrane vaccines: Expression of level 1 and 2 Th2–type cytokine and IgA immune response] Kiyono H. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):690 (0 ref.) **(Jpn)**

[An experimental analysis of Mycobacterium smegmatis as a possible vector for the design of a new tuberculosis vaccine] Eremeev VV, et al. **Probl Tuberk** 1996;(1):49–51 (Eng. Abstr.) **(Rus)**

[Tularemia vaccine strain is a potential vector] Pavlov VM, et al. **Vestn Ross Akad Med Nauk** 1997;(6):30–2 (28 ref.) (Eng. Abstr.) **(Rus)**

[The use of a live Salmonella bivalent vaccine for decreasing the circulation of salmonellae in a poultry plant] Efremov VE, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):36–9 (Eng. Abstr.) **(Rus)**

[The isotypic characteristics of antibodies in persons inoculated with a serogroup–A meningococcal polysaccharide vaccine] Skirda TA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):42–6 (Eng. Abstr.) **(Rus)**

[immunization and immune response to pneumococcal vaccination] Hidalgo H, et al. **Rev Med Chil** 1996 Mar; 124(3):287–92 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

[The effect of the processes of Klebsiella pneumoniae cultivation on the antigenic activity of vaccinal preparations for peroral use] Aleksakhina NN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):43–7 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Biodistribution of the Cuban anti–meningococcal vaccine, VA–MENGOC–BC, in Balb/c mice. Pérez–Martín O, et al. **Arch Med Res** 1997 Spring;28(1):37–40

PHARMACOLOGY

General pharmacology of a Pseudomonas vaccine prepared from outer–membrane fractions of Pseudomonas aeruginosa. Park WJ, et al. **Arzneimittelforschung** 1996 Oct; 46(10):1001–6

Vibriocidal antibody responses in North American volunteers exposed to wild–type or vaccine Vibrio cholerae O139: specificity and relevance to immunity. Losonsky GA, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):264–9

Immunogenicity of a 24–valent Klebsiella capsular polysaccharide vaccine and an eight–valent Pseudomonas O–polysaccharide conjugate vaccine administered to victims of acute trauma. Campbell WN, et al. **Clin Infect Dis** 1996 Jul;23(1):179–81

Immunization with bacterial antigens: Vibrio infections. Toranzo AE, et al. **Dev Biol Stand** 1997;90:93–105 (40 ref.)

Cytokine gene expression in the BB rat pancreas: natural course and impact of bacterial vaccines. Kolb H, et al. **Diabetologia** 1996 Dec;39(12):1448–54

Effect of Fusobacterium necrophorum leukotoxoid vaccine on susceptibility to experimentally induced liver abscesses in cattle. Saginala S, et al. **J Anim Sci** 1997 Apr; 75(4):1160–6

Further studies on the efficacy of a live vaccine against mastitis caused by Streptococcus uberis. Finch JM, et al. **Vaccine** 1997 Jul;15(10):1138–43

Induction of SIV capsid–specific CTL and mucosal sIgA in mice immunized with a recombinant S. typhimurium aroA mutant. Valentine PJ, et al. **Vaccine** 1996 Feb; 14(2):138–46

Evidence for genetic control of vaccine–induced antibody responses in cattle. Newman MJ, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1–2):43–54

STANDARDS

Belgian consensus on pneumococcal vaccine.Working Party on Pneumococcal Vaccine. **Acta Clin Belg** 1996;51(5):350–6 (18 ref.)

Clostridial vaccination efficacy on stimulating and maintaining an immune response in beef cows and calves. Troxel TR, et al. **J Anim Sci** 1997 Jan;75(1):19–25

Protective efficacy of an affinity–purified hemolysin vaccine against experimental swine pleuropneumonia. Haga Y, et al. **J Vet Med Sci** 1997 Feb;59(2):115–20

Immunisation of smallholder dairy cattle against anaplasmosis and babesiosis in Malawi. Tjornehoj K, et al. **Trop Anim Health Prod** 1997 May;29(2):77–82

Intrac vaccine: batch recall [letter] Smitherman P. **Vet Rec** 1997 Jul 26;141(4):108

SUPPLY & DISTRIBUTION

[News about zoonoses. International cooperation is necessary for development of vaccines, vector control and education] Settergren B, et al. **Lakartidningen** 1997 Jun 4;94(23):2171–2 **(Swe)**

THERAPEUTIC USE

Efficacy of aluminum hydroxide–adjuvanted Escherichia coli bacterin in turkey poults. Trampel DW, et al. **Avian Dis** 1997 Apr–Jun;41(2):263–8

Pneumococcal vaccination: four issues for western Europe. Fedson DS. **Biologicals** 1997 Jun;25(2):215–9 (15 ref.)

Construction of a stable and non–resistant bivalent vaccine candidate strain against Shigella flexneri 2a and Shigella sonnei. Rui X, et al. **Chin J Biotechnol** 1996;12(2):89–97

Prospects for the development of a vaccine against Helicobacter pylori. Telford JL, et al. **Drugs** 1996 Dec; 52(6):799–804 (36 ref.)

Comparison of pneumococcal polysaccharide and CRM197–conjugated pneumococcal oligosaccharide vaccines in young and elderly adults. Shelly MA, et al. **Infect Immun** 1997 Jan;65(1):242–7

Analysis of T–cell responses in cattle immunized against heartwater by vaccination with killed elementary bodies of Cowdria ruminantium. Totté P, et al. **Infect Immun** 1997 Jan;65(1):236–41

Comparative study of the protective effect against Salmonella colonisation in newly hatched SPF chickens using live, attenuated Salmonella vaccine strains, wild–type Salmonella strains or a competitive exclusion product. Methner U, et al. **Int J Food Microbiol** 1997 Apr 15; 35(3):223–30

Highly conserved Neisseria meningitidis surface protein confers protection against experimental infection. Martin D, et al. **J Exp Med** 1997 Apr 7;185(7):1173–83

Autosplenectomy in systemic lupus erythematosus. Uthman I, et al. **J Rheumatol** 1996 Oct;23(10):1806–10 (18 ref.)

Virulence and vaccine potential of Salmonella typhimurium mutants deficient in the expression of the RpoS (sigma S) regulon. Coynault C, et al. **Mol Microbiol** 1996 Oct; 22(1):149–60

Pneumococcal vaccine. Hattotuwa KL, et al. **Postgrad Med J** 1997 Apr;73(858):222–4

Immunopotentiating activity of Clostridium butyricum in mice. Wang GR, et al. **Proc Natl Sci Counc Repub China B** 1996 Oct;20(4):101–9

Clinical effects of specific immunotheraphy in children with atopic dermatitis. Trofimowicz A, et al. **Rocz Akad Med Bialymst** 1995;40(2):414–22

Efficacy of SF 68 in the treatment of acute diarrhea. A placebo–controlled trial. Buydens P, et al. **Scand J Gastroenterol** 1996 Sep;31(9):887–91

Helicobacter pylori and gastroduodenal disorders: new approaches for prevention, diagnosis and treatment. Kotloff KL. **Vaccine** 1996 Aug;14(12):1174–5

Immunization with a pneumococcal capsular polysaccharide vaccine during pregnancy. O'Dempsey TJ, et al. **Vaccine** 1996 Jul;14(10):963–70

Phase I clinical trial with a hexavalent PorA containing meningococcal outer membrane vesicle vaccine. Peeters CC, et al. **Vaccine** 1996 Jul;14(10):1009–15

Evaluation of three experimental subunit vaccines against pneumonic pasteurellosis in cattle. Sreevatsan S, et al. **Vaccine** 1996 Feb;14(2):147–54

Oral vaccination against pseudotuberculosis. Thornton EA, et al. **Vaccine** 1996 Jul;14(10):977–81

[Curative and prophylactic immunomodulation by vaccination in mucocutaneous streptococcal infections] Topciu V, et al. **Bacteriol Virusol Parazitol Epidemiol** 1996 Jan–Jun;41(1–2):71–3 **(Rum)**

[Molecular mechanisms underlying bacillus anthracis infection at early stages and search for novel vaccines] Stepanov AV, et al. **Vestn Ross Akad Med Nauk** 1997; (6):16–20 (Eng. Abstr.) **(Rus)**

[Will a specific preventive or curative vaccine for gastroduodenal ulcer be achieved?] Solano Aliende JA. **Rev Esp Enferm Dig** 1997 Jan;89(1):46–7 **(Spa)**

TOXICITY

Subacute toxicity of a Pseudomonas vaccine prepared from outer membrane fraction of Pseudomonas aeruginosa in beagle dogs. Kim DH, et al. **Arzneimittelforschung** 1997 Jan;47(1):80–3

Poly (D,L–lactide) glycolide polymer microsphere entrapped tetanus toxoid: safety evaluation in Wistar rats. Chaudhury MR, et al. **Hum Exp Toxicol** 1996 Mar;15(3):205–7

Endotoxicity does not limit the use of bacterial ghosts as candidate vaccines. Mader HJ, et al. **Vaccine** 1997 Feb; 15(2):195–202

BACTERIAL VAGINOSIS see **VAGINOSIS, BACTERIAL**

BACTERIAL WARFARE see **BIOLOGICAL WARFARE**

BACTERIOCHLOROPHYLLS

BIOSYNTHESIS

Characterization of chlorophyll a and bacteriochlorophyll a synthases by heterologous expression in Escherichia coli. Oster U, et al. **J Biol Chem** 1997 Apr 11;272(15):9671–6

DNA binding characteristics of CrtJ. A redox–responding repressor of bacteriochlorophyll, carotenoid, and light harvesting–II gene expression in Rhodobacter capsulatus. Ponnampalam SN, et al. **J Biol Chem** 1997 Jul 18; 272(29):18391–6

CHEMISTRY

Structure of bacteriochlorophyll aggregates in chlorosomes of green bacteria: a spectral hole burning study. Novoderezhkin VI, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):243–52

Functioning of oligomeric–type light–harvesting antenna. Timpmann KE, et al. **Biochem Mol Biol Int** 1997 Jun; 42(1):21–7

Temperature dependence of the Qy resonance Raman spectra of bacteriochlorophylls, the primary electron donor, and bacteriopheophytins in the bacterial photosynthetic reaction center. Cherepy NJ, et al. **Biochemistry** 1997 Jul 15;36(28):8559–66

Excitation energy transfer in chlorosomes of green bacteria: theoretical and experimental studies. Fetisova Z, et al. **Biophys J** 1996 Aug;71(2):995–1010

Spectroscopy and structure of bacteriochlorophyll dimers. I. Structural consequences of nonconservative circular dichroism spectra. Koolhaas MH, et al. **Biophys J** 1997 Apr;72(4):1828–41

Probing native–like orientation of pigments in modified reaction centers from Rhodobacter sphaeroides R26 by linear dichroism. Meyer M, et al. **FEBS Lett** 1996 Sep 9; 393(1):131–4

Crystal structure of the bacteriochlorophyll a protein from Chlorobium tepidum. Li YF, et al. **J Mol Biol** 1997 Aug 22;271(3):456–71

The influence of the presence of lipid on the aggregation of 8,12–diethyl farnesyl bacteriochlorophyll c located in adsorbed layers and monolayers. Planner A, et al. **J Photochem Photobiol B** 1997 May;39(1):73–80

The crystal structure of the light–harvesting complex II (B800–850) from Rhodospirillum molischianum. Koepke J, et al. **Structure** 1996 May 15;4(5):581–97

METABOLISM

Functioning of oligomeric–type light–harvesting antenna. Timpmann KE, et al. **Biochem Mol Biol Int** 1997 Jun; 42(1):21–7

Temperature–dependent behavior of bacteriochlorophyll and bacteriopheophytin in the photosynthetic reaction center from Rhodobacter sphaeroides. Ivancich A, et al. **Biochemistry** 1997 Mar 18;36(11):3242–53

A new pathway for transmembrane electron transfer in photosynthetic reaction centers of Rhodobacter sphaeroides not involving the excited special pair. Van Brederode ME, et al. **Biochemistry** 1997 Jun 10; 36(23):6855–61

Excitation energy transfer in chlorosomes of green bacteria: theoretical and experimental studies. Fetisova Z, et al. **Biophys J** 1996 Aug;71(2):995–1010

Triplet state energy transfer between the primary donor and the carotenoid in Rhodobacter sphaeroides R–26.1 reaction centers exchanged with modified bacteriochlorophyll pigments and reconstituted with spheroidene. Frank HA, et al. **Photochem Photobiol** 1996 Nov;64(5):823–31

THERAPEUTIC USE

Light–dependent oxygen consumption in

BACTERIOCHLOROPHYLLS

bacteriochlorophyll-serine-treated melanoma tumors: on-line determination using a tissue-inserted oxygen microsensor. Zilberstein J, et al. **Photochem Photobiol** 1997 Jun;65(6):1012-9

BACTERIOCIN FACTORS see **COLICIN FACTORS**

BACTERIOCIN TYPING see **BACTERIAL TYPING TECHNIQUES**

BACTERIOCINS

Guidelines for manuscripts on bacteriocins of lactic acid bacteria. Schillinger U, et al. **Int J Food Microbiol** 1996 Dec;33(2-3):iii-v

Isolation, sequence, and expression of the gene encoding halocin H4, a bacteriocin from the halophilic archaeon Haloferax mediterranei R4. Cheung J, et al. **J Bacteriol** 1997 Jan;179(2):548-51

[Bacteriocins of lactic acid bacteria--characteristics and mode of action] Schved F. **Harefuah** 1997 Feb 2; 132(3):188-92 (48 ref.) **(Heb)**

ANALYSIS

Improved method for quantification of the bacteriocin nisin. Wolf CE, et al. **J Appl Bacteriol** 1996 Apr;80(4):453-7

Detection of bacteriocins of lactic acid bacteria isolated from foods and comparison with pediocin and nisin. Coventry MJ, et al. **J Appl Microbiol** 1997 Aug;83(2):248-58

BIOSYNTHESIS

Biosynthesis of bacteriocins in lactic acid bacteria. Nes IF, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2-4):113-28 (82 ref.)

Production of pediocin AcH by Lactobacillus plantarum WHE 92 isolated from cheese. Ennahar S, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4381-7

Ribosomally synthesized antimicrobial peptides: their function, structure, biogenesis, and mechanism of action. Nissen-Meyer J, et al. **Arch Microbiol** 1997 Feb-Mar; 167(2-3):67-77 (90 ref.)

The activity of microcin E492 from Klebsiella pneumoniae is regulated by a microcin antagonist. Orellana C, et al. **FEMS Microbiol Lett** 1996 Mar 1;136(3):297-303

Assessment of a bacteriocin-producing Lactobacillus strain in the control of spoilage of a cereal-based African fermented food. Olasupo NA, et al. **Folia Microbiol (Praha)** 1997;42(1):31-4

Isolation and characterization of bacteriocin-producing lactic acid bacteria from ready-to-eat food products. Kelly WJ, et al. **Int J Food Microbiol** 1996 Dec;33(2-3):209-18

Characterization of a proteinaceous antimicrobial produced by Lactobacillus helveticus CNRZ450. Thompson JK, et al. **J Appl Bacteriol** 1996 Mar;80(3):338-48

Production of nisin-like bacteriocins by Lactococcus lactis strains isolated from vegetables. Franz CM, et al. **J Basic Microbiol** 1997;37(3):187-96

Effect of amino acid substitutions on the activity of carnobacteriocin B2. Overproduction of the antimicrobial peptide, its engineered variants, and its precursor in Escherichia coli. Quadri LE, et al. **J Biol Chem** 1997 Feb 7;272(6):3384-8

The ability of a Proteus mirabilis strain to invade the bloodstream is independent of its proticine production/proticine sensitivity type. Senior BW. **J Med Microbiol** 1997 May;46(5):407-12

Optimization of the production of a bacteriocin from Haloferax mediterranei Xia3. Platas G, et al. **Microbiologia** 1996 Mar;12(1):75-84

A bacteriocin-like peptide induces bacteriocin synthesis in Lactobacillus plantarum C11. Diep DB, et al. **Mol Microbiol** 1995 Nov;18(4):631-9

From peptide precursors to oxazole and thiazole-containing peptide antibiotics: microcin B17 synthase [see comments] Li YM, et al. **Science** 1996 Nov 15;274(5290):1188-93. Comment in: Science 1996 Nov 15;274(5290):1152-3.

One of nature's macromolecular machines demystified [comment] Stubbe J. **Science** 1996 Nov 15;274(5290):1152-3 . Comment on: Science 1996 Nov 15;274(5290):1188-93.

[Identification and expression of plasmid genes participating in the synthesis of microcin C51] Fomenko DE, et al. **Genetika** 1996 Oct;32(10):1326-32 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Detection of modified amino acids in lantibiotic peptide mutacin II by chemical derivation and electrospray ionization-mass spectroscopic analysis. Novák J, et al. **Anal Biochem** 1996 May 1;236(2):358-60

Functional characterization of pediocin PA-1 binding to liposomes in the absence of a protein receptor and its relationship to a predicted tertiary structure. Chen Y, et al. **Appl Environ Microbiol** 1997 Feb;63(2):524-31

Purification and structure of mutacin B-Ny266: a new lantibiotic produced by Streptococcus mutans. Mota-Meira M, et al. **FEBS Lett** 1997 Jun 30;410(2-3):275-9

Cloning and sequence analysis of zooA, a Streptococcus zooepidemicus gene encoding a bacteriocin-like inhibitory substance having a domain structure similar to that of lysostaphin. Simmonds RS, et al. **Gene** 1997 Apr 21; 189(2):255-61

Isolation, partial characterization and mode of action of acidocin J1229, a bacteriocin produced by Lactobacillus acidophilus JCM 1229. Tahara T, et al. **J Appl Bacteriol** 1996 Dec;81(6):669-77

Thermophilin 13, a nontypical antilisterial poration complex bacteriocin, that functions without a receptor. Marciset O, et al. **J Biol Chem** 1997 May 30;272(22):14277-84

Structural and functional organization of the Yersinia pestis bacteriocin pesticin gene cluster. Rakin A, et al. **Microbiology** 1996 Dec;142 (Pt 12):3415-24

Bacteriocins: nature, function and structure. Daw MA, et al. **Micron** 1996 Dec;27(6):467-79 (110 ref.)

CLASSIFICATION

Typing of Listeria monocytogenes by monocin and phage receptors. Bannerman E, et al. **Int J Food Microbiol** 1996 Aug;31(1-3):245-62

GENETICS

Functional analysis of the gene encoding immunity to lactacin F, lafI, and its use as a Lactobacillus-specific, food-grade genetic marker. Allison GE, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4450-60

Application and evaluation of the phage resistance- and bacteriocin-encoding plasmid pMRC01 for the improvement of dairy starter cultures. Coakley M, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1434-40

Isolation, purification, and amino acid sequence of lactobin A, one of the two bacteriocins produced by Lactobacillus amylovorus LMG P-13139. Contreras BG, et al. **Appl Environ Microbiol** 1997 Jan;63(1):13-20

Expression of the antimicrobial peptide carnobacteriocin B2 by a signal peptide-dependent general secretory pathway. McCormick JK, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4095-9

Nucleotide sequence and taxonomical distribution of the bacteriocin gene lin cloned from Brevibacterium linens M18. Valdes-Stauber N, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1283-6

Divergicin 750, a novel bacteriocin produced by Carnobacterium divergens 750. Holck A, et al. **FEMS Microbiol Lett** 1996 Feb 15;136(2):163-8

Molecular characterization of the replicon of the Pediococcus pentosaceus 43200 pediocin A plasmid pMD136. Kantor A, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):237-44

Bacteriocins of Lactobacillus plantarum strains from fermented foods. Olasupo NA. **Folia Microbiol (Praha)** 1996;41(2):130-6 (25 ref.)

Transcriptional analysis and regulation of carnobacteriocin production in Carnobacterium piscicola LV17. Saucier L, et al. **Gene** 1997 Apr 1;188(2):271-7

Isolation, sequence, and expression of the gene encoding halocin H4, a bacteriocin from the halophilic archaeon Haloferax mediterranei R4. Cheung J, et al. **J Bacteriol** 1997 Jan;179(2):548-51

Characterization of a locus from Carnobacterium piscicola LV17B involved in bacteriocin production and immunity: evidence for global inducer-mediated transcriptional regulation. Quadri LE, et al. **J Bacteriol** 1997 Oct; 179(19):6163-71

Cloning and expression in Escherichia coli of genetic determinants for production of and immunity to microcin E492 from Klebsiella pneumoniae. Wilkens M, et al. **J Bacteriol** 1997 Aug;179(15):4789-94

Enterocin B, a new bacteriocin from Enterococcus faecium T136 which can act synergistically with enterocin A. Casaus P, et al. **Microbiology** 1997 Jul;143 (Pt 7):2287-94

Structural and functional organization of the Yersinia pestis bacteriocin pesticin gene cluster. Rakin A, et al. **Microbiology** 1996 Dec;142 (Pt 12):3415-24

A bacteriocin-like peptide induces bacteriocin synthesis in Lactobacillus plantarum C11. Diep DB, et al. **Mol Microbiol** 1995 Nov;18(4):631-9

Selection and fitness in bacteriocin-producing bacteria. Dykes GA, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):683-7

[Role of the rpoS gene in the regulation of expression of plasmid genes determining the synthesis of C51 microcin] Fomenko DE, et al. **Genetika** 1997 Feb;33(2):284-6 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Immunity to lantibiotics. Saris PE, et al. **Antonie Van Leeuwenhoek** 1996 Feb;69(2):151-9 (49 ref.)

ISOLATION & PURIFICATION

Purification and amino acid sequences of piscicocins V1a and V1b, two class IIa bacteriocins secreted by Carnobacterium piscicola V1 that display significantly different levels of specific inhibitory activity. Bhugaloo-Vial P, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4410-6

Isolation, purification, and amino acid sequence of lactobin A, one of the two bacteriocins produced by Lactobacillus amylovorus LMG P-13139. Contreras BG, et al. **Appl Environ Microbiol** 1997 Jan;63(1):13-20

Purification and characterization of enterocin 4, a bacteriocin produced by Enterococcus faecalis INIA 4. Joosten HM, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4220-3

Purification of the bacteriocin bavaricin MN and characterization of its mode of action against Listeria monocytogenes Scott A cells and lipid vesicles. Kaiser AL, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4529-35

Isolation and characterization of a bacteriocin (Butyrivibriocin AR10) from the ruminal anaerobe Butyrivibrio fibrisolvens AR10: evidence in support of the widespread occurrence of bacteriocin-like activity among ruminal isolates of B. fibrisolvens. Kalmokoff ML, et al. **Appl Environ Microbiol** 1997 Feb;63(2):394-402

Isolation, partial characterization, and mode of action of Acidocin J1132, a two-component bacteriocin produced by Lactobacillus acidophilus JCM 1132. Tahara T, et al. **Appl Environ Microbiol** 1996 Mar;62(3):892-7

Concentration and recovery of the bacteriocin nisin from Lactococcus lactis subsp. lactis. Van't Hul JS, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):251-6

Purification of bacteriocins of lactic acid bacteria: problems and pointers. Carolissen-Mackay V, et al. **Int J Food Microbiol** 1997 Jan;34(1):1-16 (65 ref.)

Rapid purification, partial characterization, and antimicrobial spectrum of the bacteriocin, Pediocin AcM, from Pediococcus acidilactici M. Elegado FB, et al. **Int J Food Microbiol** 1997 Jun 17;37(1):1-11

Antibacterial activity of Lactobacillus plantarum UG1 isolated from dry sausage: characterization, production and bactericidal action of plantaricin UG1. Enan G, et al. **Int J Food Microbiol** 1996 Jul;30(3):189-215

Production, purification and characterization of reutericin 6, a bacteriocin with lytic activity produced by Lactobacillus reuteri LA6. Kabuki T, et al. **Int J Food Microbiol** 1997 Feb;34(2):145-56

Purification, partial characterisation and mode of action of enterococcin EFS2, an antilisterial bacteriocin produced by a strain of Enterococcus faecalis isolated from a cheese. Maisnier-Patin S, et al. **Int J Food Microbiol** 1996 Jul; 30(3):255-70

Isolation, partial characterization and mode of action of acidocin J1229, a bacteriocin produced by Lactobacillus acidophilus JCM 1229. Tahara T, et al. **J Appl Bacteriol** 1996 Dec;81(6):669-77

Adsorption of bacteriocins by ingestible silica compounds. Wan J, et al. **J Appl Bacteriol** 1996 Aug;81(2):167-73

Pediocin PD-1, a bactericidal antimicrobial peptide from Pediococcus damnosus NCFB 1832. Green G, et al. **J Appl Microbiol** 1997 Jul;83(1):127-32

Thermophilin 13, a nontypical antilisterial poration complex bacteriocin, that functions without a receptor. Marciset O, et al. **J Biol Chem** 1997 May 30;272(22):14277-84

Isolation and characterization of antibiotic-like substances produced by natural Escherichia coli isolates. Cavazza ME, et al. **J Chemother** 1995 Nov;7 Suppl 4:46-8

Exploiting the unique biophysical properties of bacteriocins to purify Bac 1829 from Staphylococcus aureus KSI1829. Crupper SS, et al. **Protein Expr Purif** 1997 Mar;9(2):228-32

METABOLISM

Functional characterization of pediocin PA-1 binding to liposomes in the absence of a protein receptor and its relationship to a predicted tertiary structure. Chen Y, et al. **Appl Environ Microbiol** 1997 Feb;63(2):524-31

A secretory protein involved in the antagonistic interactions between methanotrophic bacteria. Pashkova NI, et al. **Biochemistry (Mosc)** 1997 Apr;62(4):386-90

Bacteriocins of Lactobacillus plantarum strains from fermented foods. Olasupo NA. **Folia Microbiol (Praha)** 1996;41(2):130-6 (25 ref.)

Pesticin displays muramidase activity. Vollmer W, et al. **J Bacteriol** 1997 Mar;179(5):1580-3

Thermophilin 13, a nontypical antilisterial poration complex bacteriocin, that functions without a receptor. Marciset O, et al. **J Biol Chem** 1997 May 30;272(22):14277-84

Are ruminal bacteria armed with bacteriocins? Kalmokoff ML, et al. **J Dairy Sci** 1996 Dec;79(12):2297-306 (53 ref.)

Bacteriocins: nature, function and structure. Daw MA, et al. **Micron** 1996 Dec;27(6):467-79 (110 ref.)

Transcriptional activation of the dnaA gene encoding the initiator for oriC replication by IciA protein, an inhibitor of in vitro oriC replication in Escherichia coli. Lee YS, et al. **Mol Microbiol** 1996 Jan;19(2):389-96

The leader peptide is essential for the post-translational modification of the DNA-gyrase inhibitor microcin B17. Madison LL, et al. **Mol Microbiol** 1997 Jan;23(1):161-8

Double-glycine-type leader peptides direct secretion of bacteriocins by ABC transporters: colicin V secretion in Lactococcus lactis. van Belkum MJ, et al. **Mol Microbiol** 1997 Mar;23(6):1293-301

PHARMACOLOGY

Interactions of nisin and pediocin PA-1 with closely related lactic acid bacteria that manifest over 100-fold differences in bacteriocin sensitivity. Bennik MH, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3628-36

Leucocin F10, a bacteriocin from Leuconostoc carnosum. Parente E, et al. **Int J Food Microbiol** 1996 Dec; 33(2-3):231-43

Antilisterial activity of three bacteriocins used at sub minimal inhibitory concentrations and cross-resistance of the survivors. Song HJ, et al. **Int J Food Microbiol** 1997 May 20;36(2-3):155-61

Homology with a repeated Yersinia pestis DNA sequence IS100 correlates with pesticin sensitivity in Yersinia pseudotuberculosis. McDonough KA, et al. **J Bacteriol**

1997 Mar;179(6):2081–5
Mutational analysis and chemical modification of Cys24 of lactococcin B, a bacteriocin produced by Lactococcus lactis. Venema K, et al. **Microbiology** 1996 Oct;142 (Pt 10):2825–30
A bacteriocin-like peptide induces bacteriocin synthesis in Lactobacillus plantarum C11. Diep DB, et al. **Mol Microbiol** 1995 Nov;18(4):631–9

BACTERIOLOGICAL TECHNIQUES

see related
CULTURE MEDIA
Blood cultures in adult patients released from an urban emergency department: a 15-month experience. Sturmann KM, et al. **Acad Emerg Med** 1996 Aug;3(8):768–75
Utility of urine and blood cultures in pyelonephritis. Thanassi M. **Acad Emerg Med** 1997 Aug;4(8):797–800
Rapid, sensitive and specific diagnosis of Bordetella pertussis using the polymerase chain reaction. Aoyama T, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):44–7
Use of the rapid streptococcus test in extrapharyngeal sites. Bourgeois SD, et al. **Am Fam Physician** 1996 Oct; 54(5):1634–6
Use of sterile compared with tap water in gastrointestinal endoscopic procedures. Wilcox CM, et al. **Am J Infect Control** 1996 Oct;24(5):407–10
Rapid diagnostic tests for tuberculosis: what is the appropriate use? American Thoracic Society Workshop [see comments] **Am J Respir Crit Care Med** 1997 May; 155(5):1804–14. Comment in: Am J Respir Crit Care Med 1997 May;155(5):1497–8.
Rapid diagnostic tests for tuberculosis: progress but no gold standard [editorial; comment] Barnes PF. **Am J Respir Crit Care Med** 1997 May;155(5):1497–8. Comment on: Am J Respir Crit Care Med 1997 May;155(5):1804–14.
Plating hyperthermophilic archea on solid surface. Rakhely G, et al. **Anal Biochem** 1996 Dec 1;243(1):181–3
Alternative use of polymerase chain reaction instead of rho-nitro-alpha-acetylamino-beta-hydroxypropiophenone test for the early detection of Mycobacterium tuberculosis in BACTEC 12B cultures. Ryang DW, et al. **APMIS** 1996 Jun;104(6):444–50
Evaluation of test media for routine monitoring of Escherichia coli in nonpotable waters. Gaudet ID, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4032–5
Growth of silicone-immobilized bacteria on polycarbonate membrane filters, a technique to study microcolony formation under anaerobic conditions. Højberg O, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2920–4
Detection of Coxiella burnetii in cow's milk by PCR-enzyme-linked immunosorbent assay combined with a novel sample preparation method. Muramatsu Y, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2142–6
Simultaneous determination of gene expression and bacterial identity in single cells in defined mixtures of pure cultures. Poulsen LK, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3698–702
Blood culture volume and detection of coagulase negative staphylococcal septicaemia in neonates. Jawaheer G, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jan;76(1):F57–8
Comparable growth of a Trichomonas vaginalis strain in PEHPS and TYI-S-33 media. Castro-Garza J, et al. **Arch Med Res** 1996 Winter;27(4):567–9
Quantitative analysis of a presence/absence microbiological assay: the hard surface carrier test of disinfectant efficacy. Hamilton MA, et al. **Biometrics** 1996 Sep;52(3):1112–20
Throat swabs in chronic tonsillitis: a time-honoured practice best forgotten. Robinson AC, et al. **Br J Clin Pract** 1997 Apr-May;51(3):138–9
Mycobacteriology laboratory. Heifets L. **Clin Chest Med** 1997 Mar;18(1):35–53 (68 ref.)
Detection of anti-Borrelia burgdorferi antibody responses with the borreliacidal antibody test, indirect fluorescent-antibody assay performed by flow cytometry, and western immunoblotting. Creson JR, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):184–90
Analysis of 281,797 consecutive blood cultures performed over an eight-year period: trends in microorganisms isolated and the value of anaerobic culture of blood. Cockerill FR 3rd, et al. **Clin Infect Dis** 1997 Mar; 24(3):403–18
Incidence of anaerobic infections among patients with pulmonary diseases: Japanese experience with transtracheal aspiration and immediate bedside anaerobic inoculation. Kato T, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S87–96
Polymerase chain reaction and other amplification techniques in mycobacteriology. Sandin RL. **Clin Lab Med** 1996 Sep; 16(3):617–39 (40 ref.)
Update on detection of bacteremia and fungemia. Reimer LG, et al. **Clin Microbiol Rev** 1997 Jul;10(3):444–65 (218 ref.)
PHLS mycobacteriology reference services in England and Wales. Drobniewski FA, et al. **Commun Dis Rep CDR Rev** 1997 Jul 25;7(8):R106–9
Alternative enrichment techniques for Yersinia enterocolitica. Escudero ME, et al. **Contrib Microbiol Immunol** 1995;13:150–2
Accurate characterization of ofloxacin susceptibility with Enterobacteriaceae using a modified GNS F6 card and the bioMerieux Vitek System. Doern GV, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):133–5
Comparison of the Murex Candida albicans CA50 test with germ tube production for identification of C. albicans. Fenn JP, et al. **Diagn Microbiol Infect Dis** 1996 Jan;24(1):31–5
Evaluation of Haemophilus influenzae isolates with elevated MICs to amoxicillin/clavulanic acid. Jacobs MR, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):105–12
Culture of dialysate in suspected CAPD associated peritonitis using the BacT/Alert system. Khare S, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):101–6
Evaluation of a direct immunofluorescence assay, dot-blot enzyme immunoassay, and shell vial culture in the diagnosis of lower respiratory tract infections caused by influenza A virus. Reina J, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):143–5
Prolonged incubation of blood and bone marrow cultures in 12B bottles processed on the BACTEC 460 TB system does not increase microbial recovery. Wilson ML, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):113–5
Molecular approaches to the identification of unculturable infectious agents [see comments] Gao SJ, et al. **Emerg Infect Dis** 1996 Jul-Sep;2(3):159–67 (92 ref.). Comment in: Emerg Infect Dis 1997 Jan-Mar;3(1):77–8.
Absence of spontaneous autolysis of Streptococcus pneumoniae in aerobic fan culture bottles in a commercial blood culture system [letter] Casetta A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):616–7
Comparison of four methods for pretreatment of cystic fibrosis sputa [letter] Hoppe JE, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):895–6
Comparison of agar dilution, broth dilution, disk diffusion, and the E-test for susceptibility testing of penicillin-susceptible and penicillin-resistant Streptococcus pneumoniae. Thorvilson J, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):391–4
European multicentre evaluation of a commercial system for identification of methicillin-resistant Staphylococcus aureus [see comments] Zambardi G, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):747–9. Comment in: Eur J Clin Microbiol Infect Dis 1997 Jun;16(6):481.
Comparative methodology to investigate the presence of Escherichia coli K-12 strains in environmental and human stool samples. Blum G, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):77–82
Study of bacteraemia using conventional and biphasic culture methods. Bannur M, et al. **Indian J Pathol Microbiol** 1995 Apr;38(2):147–51
Increasing yields from blood cultures. Jain P. **Indian Pediatr** 1996 Nov;33(11):974–5
High frequency of pseudobacteremia at a university hospital. Little JR, et al. **Infect Control Hosp Epidemiol** 1997 Mar; 18(3):200–2
Inoculation of culture plates: straightforward or is it? Carlin EM, et al. **Int J STD AIDS** 1997 Apr;8(4):278–9
External quality assessment of the serum bactericidal test: results of a methodology/interpretation questionnaire. MacGowan A, et al. **J Antimicrob Chemother** 1997 Feb; 39(2):277–84
Survival of the recombinant Bacteroides thetaiotaomicron strain BTX in in vitro rumen incubations. Cotta MA, et al. **J Appl Microbiol** 1997 Jun;82(6):743–50
Research note: in vitro inhibition of Listeria monocytogenes growth by veillonellae cultures grown on tartrate media. Hinton A Jr, et al. **J Appl Microbiol** 1997 Jun;82(6):780–2
Evaluation of defined media suitable for isolation of auxotrophic mutants of mycobacteria. Wards BJ. **J Basic Microbiol** 1996;36(5):355–62
Evaluation of sinus-track cultures in chronic bone infection. Mousa HA. **J Bone Joint Surg Br** 1997 Jul;79(4):567–9
Identification of staphylococci with a self-educating system using fatty acid analysis and biochemical tests [published erratum appears in J Clin Microbiol 1997 Apr;35(4):1043] Behme RJ, et al. **J Clin Microbiol** 1996 Dec;34(12):3075–84
Rapid detection and isolation of shiga-like toxin (verocytotoxin)-producing Escherichia coli by direct testing of individual enterohemolytic colonies from washed sheep blood agar plates in the VTEC-RPLA assay. Beutin L, et al. **J Clin Microbiol** 1996 Nov;34(11):2812–4
Isolation of Bartonella (Rochalimaea) henselae: effects of methods of blood collection and handling. Brenner SA, et al. **J Clin Microbiol** 1997 Mar;35(3):544–7
Specimen contamination in mycobacteriology laboratory detected by pseudo-outbreak of multidrug-resistant tuberculosis: analysis by routine epidemiology and confirmation by molecular technique [letter; comment] Burman WJ, et al. **J Clin Microbiol** 1996 Dec;34(12):3257 . Comment on: J Clin Microbiol 1996 Apr;34(4):1017–9.
Mycobacterial growth and bacterial contamination in the mycobacteria growth indicator tube and BACTEC 460 culture systems. Cornfield DB, et al. **J Clin Microbiol** 1997 Aug;35(8):2068–71
Evaluation of the AnaeroPack system for growth of clinically significant anaerobes. Delaney ML, et al. **J Clin Microbiol** 1997 Mar;35(3):558–62
Comparative evaluation of PCR and commercial DNA probes for detection and identification to species level of Mycobacterium avium and Mycobacterium intracellulare. Devallois A, et al. **J Clin Microbiol** 1996 Nov;34(11):2756–9
Sensitive assay for measurement of antibodies to Clostridium botulinum neurotoxins A, B, and E: use of hapten-labeled-antibody elution to isolate specific complexes. Doellgast GJ, et al. **J Clin Microbiol** 1997 Mar; 35(3):578–83
Screening tests for the presumptive identification of Corynebacterium diphtheriae in a diagnostic laboratory [letter; comment] Efstratiou A, et al. **J Clin Microbiol** 1996 Dec;34(12):3251. Comment on: J Clin Microbiol 1996 May;34(5):1275–6.
A modified Elek test for detection of toxigenic corynebacteria in the diagnostic laboratory. Engler KH, et al. **J Clin Microbiol** 1997 Feb;35(2):495–8
Cloning and sequence of a region of Vibrio cholerae O139 Bengal and its use in PCR-based detection. Falklind S, et al. **J Clin Microbiol** 1996 Dec;34(12):2904–8
Specificity of IS6110-based amplification assays for Mycobacterium tuberculosis complex [letter; comment] Gillespie SH, et al. **J Clin Microbiol** 1997 Mar; 35(3):799–801. Comment on: J Clin Microbiol 1996 Nov;34(11):2843–6.
Specific detection of Mycobacterium tuberculosis by mtp40 nested PCR [letter; comment] Gori A, et al. **J Clin Microbiol** 1996 Nov;34(11):2866–7. Comment on: J Clin Microbiol 1996 May;34(5):1108–13.
Specificity of IS6110-based amplification assays for Mycobacterium tuberculosis complex [see comments] Hellyer TJ, et al. **J Clin Microbiol** 1996 Nov;34(11):2843–6 . Comment in: J Clin Microbiol 1997 Mar;35(3):799–801.
Identification of Burkholderia cepacia isolates from patients with cystic fibrosis and use of a simple new selective medium. Henry DA, et al. **J Clin Microbiol** 1997 Mar; 35(3):614–9
Comparison of the Roche AMPLICOR MYCOBACTERIUM assay and Digene SHARP Signal System with in-house PCR and culture for detection of Mycobacterium tuberculosis in respiratory specimens. Huang TS, et al. **J Clin Microbiol** 1996 Dec;34(12):3092–6
Amplification and restriction endonuclease digestion of a large fragment of genes coding for rRNA as a rapid method for discrimination of closely related pathogenic bacteria [see comments] Ibrahim A, et al. **J Clin Microbiol** 1996 Dec;34(12):2894–6. Comment in: J Clin Microbiol 1997 Jun;35(6):1646–7.
Continuous monitoring of oxygen concentrations in several systems for cultivation of anaerobic bacteria. Imhof A, et al. **J Clin Microbiol** 1996 Jul;34(7):1646–8
Extended incubation of culture plates improves recovery of Bordetella spp. Katzko G, et al. **J Clin Microbiol** 1996 Jun; 34(6):1563–4
A novel method for isolation of Chlamydia pneumoniae by treatment with trypsin or EDTA. Kazuyama Y, et al. **J Clin Microbiol** 1997 Jun;35(6):1624–6
Diagnosis of Mediterranean spotted fever by cultivation of Rickettsia conorii from blood and skin samples using the centrifugation-shell vial technique and by detection of R. conorii in circulating endothelial cells: a 6-year follow-up. La Scola B, et al. **J Clin Microbiol** 1996 Nov;34(11):2722–7
Dilution of samples collected and transported for Gen-Probe PACE 2 processing facilitates detection of Chlamydia trachomatis by Roche Amplicor PCR [letter] Liu D, et al. **J Clin Microbiol** 1997 Aug;35(8):2186
Species-specific and ubiquitous DNA-based assays for rapid identification of Staphylococcus epidermidis. Martineau F, et al. **J Clin Microbiol** 1996 Dec;34(12):2888–93
Application of lipovitellin-salt-mannitol agar for screening, isolation, and presumptive identification of Staphylococcus aureus in a teaching hospital. Merlino J, et al. **J Clin Microbiol** 1996 Dec;34(12):3012–5
Evaluation of CHROMagar Orientation for differentiation and presumptive identification of gram-negative bacilli and Enterococcus species [published erratum appears in J Clin Microbiol 1997 Aug;35(8):2190] Merlino J, et al. **J Clin Microbiol** 1996 Jul;34(7):1788–93
Improved sensitivity of direct microscopy for acid-fast bacilli: sedimentation as an alternative to centrifugation for concentration of tubercle bacilli. Miörner H, et al. **J Clin Microbiol** 1996 Dec;34(12):3206–7
RNA amplification by nucleic acid sequence-based amplification with an internal standard enables reliable detection of Chlamydia trachomatis in cervical scrapings and urine samples. Morré SA, et al. **J Clin Microbiol** 1996 Dec;34(12):3108–14
Enhanced isolation of Serpulina hyodysenteriae by using sliced agar media. Olson LD. **J Clin Microbiol** 1996 Dec; 34(12):2937–41
Multiplex PCR detection of vanA, vanB, vanC-1, and vanC-2/3 genes in enterococci. Patel R, et al. **J Clin Microbiol** 1997 Mar;35(3):703–7
Comparison of the Mycobacteria Growth Indicator Tube (MGIT) with radiometric and solid culture for recovery of acid-fast bacilli. Pfyffer GE, et al. **J Clin Microbiol** 1997 Feb;35(2):364–8
An optimized PCR leads to rapid and highly sensitive detection of Borrelia burgdorferi in patients with Lyme borreliosis. Priem S, et al. **J Clin Microbiol** 1997 Mar; 35(3):685–90
Comparison of four different sampling methods for detecting pharyngeal carriage of Streptococcus pneumoniae and Haemophilus influenzae in children. Rapola S, et al. **J Clin Microbiol** 1997 May;35(5):1077–9
Evaluation of nutritive capacities of 10 broth media. Scythes KD, et al. **J Clin Microbiol** 1996 Jul;34(7):1804–7
Diagnosis of triple-lumen catheter infection: comparison of roll plate, sonication, and flushing methodologies. Sherertz

RJ, et al. **J Clin Microbiol** 1997 Mar;35(3):641–6

Multicenter evaluation of four methods for Clostridium difficile detection: ImmunoCard C. difficile, cytotoxin assay, culture, and latex agglutination. Staneck JL, et al. **J Clin Microbiol** 1996 Nov;34(11):2718–21

PCR identification of Mycobacterium bovis BCG. Talbot EA, et al. **J Clin Microbiol** 1997 Mar;35(3):566–9

Characterization of mycobacterial isolates phylogenetically related to, but different from Mycobacterium simiae. Tortoli E, et al. **J Clin Microbiol** 1997 Mar;35(3):697–702

Evaluation of reformulated chemiluminescent DNA probe (AccuProbe) for culture identification of Mycobacterium kansasii. Tortoli E, et al. **J Clin Microbiol** 1996 Nov; 34(11):2838–40

Evaluation of the AnaeroPack system for growth of anaerobic bacteria. Van Horn KG, et al. **J Clin Microbiol** 1997 Aug;35(8):2170–3

Multiplex PCR–based assay for detection of Bordetella pertussis in nasopharyngeal swab specimens. Wadowsky RM, et al. **J Clin Microbiol** 1996 Nov;34(11):2645–9

Isolator component responsible for inhibition of Mycobacterium avium–M. intracellulare in BACTEC 12B medium. Wasilauskas BL, et al. **J Clin Microbiol** 1997 Mar; 35(3):588–90

Doing it right the first time: quality improvement and the contaminant blood culture. Weinbaum FI, et al. **J Clin Microbiol** 1997 Mar;35(3):563–5

Evaluation of the recombinant 38–kilodalton antigen of Mycobacterium tuberculosis as a potential immunodiagnostic reagent. Wilkinson RJ, et al. **J Clin Microbiol** 1997 Mar;35(3):553–7

Identification of Yersinia pestis by BBL Crystal Enteric/Nonfermenter Identification System. Wilmoth BA, et al. **J Clin Microbiol** 1996 Nov;34(11):2829–30

Misidentification of Corynebacterium diphtheriae [letter; comment] Wong J, et al. **J Clin Microbiol** 1996 Dec; 34(12):3251–2. Comment on: J Clin Microbiol 1996 May;34(5):1275–6.

Comparison of BACTEC 9240 Peds Plus medium and isolator 1.5 microbial tube for detection of Brucella melitensis from blood cultures. Yagupsky P, et al. **J Clin Microbiol** 1997 Jun;35(6):1382–4

The recombinant 120–kilodalton protein of Ehrlichia chaffeensis, a potential diagnostic tool. Yu XJ, et al. **J Clin Microbiol** 1996 Nov;34(11):2853–5

Evaluation of a nonradiometric system (BACTEC 9000 MB) for detection of mycobacteria in human clinical samples. Zanetti S, et al. **J Clin Microbiol** 1997 Aug;35(8):2072–5

Isolation of Mycoplasma hominis using the BACTEC 9000 series blood culture system. Kitson KA, et al. **J Clin Pathol** 1996 Aug;49(8):686–7

Discrepancy between culture and DNA probe analysis for the detection of periodontal bacteria. van Steenbergen TJ, et al. **J Clin Periodontol** 1996 Oct;23(10):955–9

Identification of Bacteroides forsythus in subgingival dental plaque with the aid of a rapid PCR method. Meurman JH, et al. **J Dent Res** 1997 Jul;76(7):1376–80

A surface swab method for culturing Foley catheters assays the pericatheter (urethral) but not the urine (luminal) microbial population. Johnson JR, et al. **J Lab Clin Med** 1997 Jul;130(1):102–9

Use of pre–reduced swabs in bacteriology of chronic suppurative otitis media. Indudharan R, et al. **J Laryngol Otol** 1996 Oct;110(10):950–1

Growth and cultural characteristics of Calymmatobacterium granulomatis—the aetiological agent of granuloma inguinale (Donovanosis). Kharsany AB, et al. **J Med Microbiol** 1997 Jul;46(7):579–85

Clinical evaluation of a rapid diagnostic screen (URISCREEN) for bacteriuria in children. Palmer LS, et al. **J Urol** 1997 Feb;157(2):654–7

Use of optical immunoassay to diagnose streptococcal pharyngitis [letter; comment] Dale JC, et al. **JAMA** 1997 Jul 2;278(1):23–4. Comment on: JAMA 1997 Mar 19;277(11):899–903.

Optical immunoassay test for group A beta–hemolytic streptococcal pharyngitis. An office–based, multicenter investigation [see comments] Gerber MA, et al. **JAMA** 1997 Mar 19;277(11):899–903. Comment in: JAMA 1997 Jul 2;278(1):23–4.

Rapid identification of Mycobacterium tuberculosis by a PCR assay combined with a cultivation system using Middlebrook 7H12 medium. Sato K, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1103–10

Brucellosis from sniffing bacteriological cultures [letter] [see comments] Grammont–Cupillard M, et al. **Lancet** 1996 Dec 21–28;348(9043):1733–4. Comment in: Lancet 1997 Mar 1;349(9052):651.

Exposure to Brucella in the laboratory [letter; comment] Zervos MJ, et al. **Lancet** 1997 Mar 1;349(9052):651. Comment on: Lancet 1996 Dec 21–28;348(9043):1733–4.

Implementation of conditions of the inoculum stage for Streptosporangium cultures. Platas G, et al. **Microbiologia** 1997 Jun;13(2):193–200

Resuscitation of 'non–culturable' cells from aged cultures of Campylobacter jejuni. Bovill RA, et al. **Microbiology** 1997 May;143 (Pt 5):1575–81

The pathogenesis and laboratory diagnosis of infections caused by diarrhoea producing Escherichia coli. Kang G. **Natl Med J India** 1996 Jul–Aug;9(4):168–73 (112 ref.)

A serologic Mycobacteria leprae gelatin particle agglutination (MLPA) in the diagnosis of leprosy: comparison with conventional enzyme–linked immunoassay and bacterial index. Agdamag AT, et al. **Nippon Rai Gakkai Zasshi** 1996 Jul;65(2):100–5

Validity of the vaginal gram stain for the diagnosis of bacterial vaginosis. Schwebke JR, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):573–6

Effects of growth conditions and incubation times on the expression of antigens of Haemophilus paragallinarum which are detected by monoclonal antibodies. Bragg RR, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):57–63

Bronchoalveolar lavage or oropharyngeal cultures to identify lower respiratory pathogens in infants with cystic fibrosis [see comments] Armstrong DS, et al. **Pediatr Pulmonol** 1996 May;21(5):267–75. Comment in: Pediatr Pulmonol 1996 May;21(5):265–6.

What is the role of upper airway bacterial cultures in patients with cystic fibrosis? [editorial; comment] Ramsey BW. **Pediatr Pulmonol** 1996 May;21(5):265–6. Comment on: Pediatr Pulmonol 1996 May;21(5):267–75.

Correspondence between radioactive and functional methods in the quality control of DNA restriction and modifying enzymes. Trujillo LE, et al. **Rev Latinoam Microbiol** 1996 Jan–Mar;38(1):31–7

Culture of joint specimens in bacterial arthritis. Impact of blood culture bottle utilization. von Essen R. **Scand J Rheumatol** 1997;26(4):293–300

Cotton wool swabs provide a convenient medium for the collection, transport and storage of sputum for the subsequent molecular investigation of Mycobacterium tuberculosis. Wiessler RE, et al. **Trans R Soc Trop Med Hyg** 1996 May–Jun;90(3):256–7

Noninvasive techniques for studying pathogenic bacteria in the whole animal. Camilli A. **Trends Microbiol** 1996 Aug; 4(8):295–6

Comparison of a biphasic non–radiometric system with Lowenstein–Jensen and Bactec–460 system for recovery of mycobacteria from clinical specimens. Luquin M, et al. **Tuber Lung Dis** 1996 Oct;77(5):449–53

Comparison of an LPS–specific competitive ELISA with a motility enrichment culture method (MSRV) for detection of Salmonella typhimurium and S. enteritidis in chickens. Tan S, et al. **Vet Microbiol** 1997 May;56(1–2):79–86

The potential for bacterial testing of blood products [editorial] Wagner SJ. **Zentralbl Bakteriol** 1996 Mar; 283(3):253–7

[Comparison of various methods of hemoculture tests] Beneš J, et al. **Epidemiol Mikrobiol Imunol** 1996 Sep;45(3):101–7 (Eng. Abstr.) **(Cze)**

[Detection of mycobacteria using the Bactec radiometry method and standard culture methods] Svecová Z. **Epidemiol Mikrobiol Imunol** 1997 Mar;46(1):27–9 (Eng. Abstr.) **(Cze)**

[Use of semi–solid Diasalm medium for isolation of Salmonella enteritidis] Ružičková V, et al. **Vet Med (Praha)** 1996 Sep;41(9):283–8 (Eng. Abstr.) **(Cze)**

[Traumatic and iatrogenic ocular infections: specimen handling and role of the laboratory] Melin P. **Bull Soc Belge Ophtalmol** 1996;260:27–32 (Eng. Abstr.) **(Fre)**

[Isolation of Helicobacter pylori: necessity of control of transport conditions] Meunier O, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):82–5 (Eng. Abstr.) **(Fre)**

[Routine bacteriologic screening of intensive care patients: pro] Bach A. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Feb; 32(2):117–9 **(Ger)**

[Routine bacteriological screening of intensive care patients: contra] Scheidegger C, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Feb; 32(2):115–6 **(Ger)**

[From GIGO (garbage in, garbage out) to KABA (correct disease–relevant consultation, treatment–relevant response)—principles for effective diagnosis of infection] Geiss HK. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:704–7 (Eng. Abstr.) **(Ger)**

[Nosocomial infections in Germany. Microbiological diagnosis, preventive antibiotics and antibiotic therapy] Hauer T, et al. **Med Klin** 1996 Nov 15;91(11):681–6 (Eng. Abstr.) **(Ger)**

[Results of questionnaire survey on new examinations for Mycobacteria] Kurashima A. **Kekkaku** 1996 Dec; 71(12):696–700 **(Jpn)**

[Results of the application of MTD to several types of specimens and the possibility of judging clinical courses based on MTD] Ohsumi M, et al. **Kekkaku** 1996 Dec; 71(12):700–2 **(Jpn)**

[Detection of Mycobacterium tuberculosis in clinical specimens other than sputum by the Mycobacterium Tuberculosis Direct Test (MTD)—assessment of sample preparation methods and clinical evaluation] Toyoda T, et al. **Kekkaku** 1996 Sep;71(9):495–503 (Eng. Abstr.) **(Jpn)**

[Studies on enrichment broth for verotoxin–producing Escherichia coli (VTEC) O157] Okazaki N, et al. **Nippon Saikingaku Zasshi** 1997 Apr;52(2):505–11 (Eng. Abstr.) **(Jpn)**

[Evaluation of a new disk containing indoxyl–beta–D–glucuronide for rapid identification of Escherichia coli] Fujita S, et al. **Rinsho Byori** 1996 Sep; 44(9):895–8 (Eng. Abstr.) **(Jpn)**

[Bacteriological tests: quantitative bacterial cultivation by the spiral system] Nakai T, et al. **Rinsho Byori** 1996 Nov;Suppl 103:235–40 **(Jpn)**

[A rapid Helicobacter test in general practice. A needed test or a textbook example of how to create health issues?] Claudi T, et al. **Tidsskr Nor Laegeforen** 1997 Feb 10; 117(4):560–1 **(Nor)**

[Nisin: conditions for production and isolation of the drug] Baranova IP, et al. **Antibiot Khimioter** 1997;42(3):37–44 (69 ref.) **(Rus)**

[Evaluation of the sensitivity and specificity of methods of rapid diagnosis in bacterial vaginosis] Ankirskaia AS, et al. **Klin Lab Diagn** 1997 Jul;(7):41–5 (Eng. Abstr.) **(Rus)**

[Modified method of inoculation of hemocultures from patients with suppurative–septic diseases and typhoid–paratyphoid fever] Iskhakova KhI, et al. **Klin Lab Diagn** 1996 Sep–Oct;(5):41–3 (Eng. Abstr.) **(Rus)**

[Use of microtest systems for identification of newly isolated clinical strains] Savitskaia KI, et al. **Klin Lab Diagn** 1996 Sep–Oct;(5):29–35 (Eng. Abstr.) **(Rus)**

[False tuberculosis outbreak caused by specimen contamination in a micro–bacteriology laboratory: confirmation by molecular techniques] Aznar J, et al. **Enferm Infecc Microbiol Clin** 1997 Mar;15(3):144–6 (Eng. Abstr.) **(Spa)**

[Sensitivity of XG medium for the isolation of Salmonella, Shigella, and Yersinia (letter)] García–Aguayo JM, et al. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):400–1 **(Spa)**

[Evaluation of a rapid method for the identification of the Enterococcus genus] Moreno A, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):85–7 (Eng. Abstr.) **(Spa)**

[Clinical interest of a new simple system for isolating Mycobacterium tuberculosis] Casal M, et al. **Rev Clin Esp** 1997 Mar;197(3):148–51 (Eng. Abstr.) **(Spa)**

[Comparison of detection methods for the Staphylococcus aureus capsule] Odierno L, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):245–55 (Eng. Abstr.) **(Spa)**

[Don't condemn the Chlamydia test so categorically! (letter)] Fager PJ. **Lakartidningen** 1997 Mar 5;94(10):814 **(Swe)**

[Misleading marketing of bedside bacteriological diagnosis (letter)] Henning C, et al. **Lakartidningen** 1997 Mar 26; 94(13):1165–6 **(Swe)**

ECONOMICS

Modification of Christensen urease test as an inexpensive tool for detection of Helicobacter pylori. Dominguez–Bello MG, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):149–52

INSTRUMENTATION

Rapid detection of the staphylococcal mecA gene from BACTEC blood culture bottles by the polymerase chain reaction. Carroll KC, et al. **Am J Clin Pathol** 1996 Nov; 106(5):600–5

Use of N–phenylmethazonium methosulphate oxidation of NADH in the quantification of oxygen uptake by oral bacteria under open–system conditions. Traudt M, et al. **Arch Oral Biol** 1996 Oct;41(10):959–64

Evaluation of a rapid air thermal cycler for detection of Mycobacterium tuberculosis. Chapin K, et al. **J Clin Microbiol** 1997 Aug;35(8):2157–9

Evaluation of automated COBAS AMPLICOR PCR system for detection of several infectious agents and its impact on laboratory management. Jungkind D, et al. **J Clin Microbiol** 1996 Nov;34(11):2778–83

Rapid detection of mycobacteria in clinical specimens by using the automated BACTEC 9000 MB system and comparison with radiometric and solid–culture systems. Pfyffer GE, et al. **J Clin Microbiol** 1997 Sep;35(9):2229–34

Evaluation of a novel endoluminal brush method for in situ diagnosis of catheter related sepsis. Kite P, et al. **J Clin Pathol** 1997 Apr;50(4):278–82

Growth of methylaminotrophic, acetotrophic and hydrogenotrophic methanogenic bacteria on artificial supports. Urrutia H, et al. **Microbiologia** 1997 Jun; 13(2):209–14

Use of a glycerol–limited, long–term chemostat for isolation of Escherichia coli mutants with improved physiological properties. Weikert C, et al. **Microbiology** 1997 May;143 (Pt 5):1567–74

Preparation and evaluation of bacterial stocks for filter validation. Fennington GJ Jr, et al. **PDA J Pharm Sci Technol** 1997 Jul–Aug;51(4):153–5

Continuous–monitoring blood culture screening system improves the detection of bacteremia in neutropenic patients. Kinnunen U, et al. **Scand J Infect Dis** 1996; 28(3):287–92

[Use of the Streptotest kit for identification of enterococci isolated from human clinical material] Svec P, et al. **Epidemiol Mikrobiol Imunol** 1996 Dec;45(4):153–7 (Eng. Abstr.) **(Cze)**

[Improvement of a portable device for isolation of bacteria from the air under study] Kotenok IaF, et al. **Gig Sanit** 1996 Jul–Aug;(4):50–2 **(Rus)**

[Comparative analysis of 2 sanitary–bacteriological methods of detecting bacteria of the Escherichia coli group in the environment] Ivanov AA, et al. **Klin Lab Diagn** 1997 Jul;

(7):38–40 (Eng. Abstr.) **(Rus)**
[Principles of monitoring food products by impedance Bactometer] Khastsaev BD. **Med Tekh** 1996 Sep–Oct; (5):41–3 (8 ref.) (Eng. Abstr.) **(Rus)**
[Yield of blood cultures in relation to the cultured blood volume in Bactec 6A bottles] Mensa J, et al. **Med Clin (Barc)** 1997 Apr 12;108(14):521–3 (Eng. Abstr.) **(Spa)**

STANDARDS

Tuberculosis bacteriology laboratory services and incremental protocols for developing countries. Laszlo A. **Clin Lab Med** 1996 Sep;16(3):697–716 (59 ref.)
Non–cultural detection of rectal and pharyngeal gonorrhoea by the Gen–Probe PACE 2 assay. Young H, et al. **Genitourin Med** 1997 Feb;73(1):59–62
Use of prototype automated blood culture system and gas–liquid chromatography for the analysis of continuous ambulatory peritoneal dialysis associated infection. Catchpole CR, et al. **J Clin Pathol** 1997 Mar;50(3):241–4
Comparison of commercial slide agglutination kits with a tube coagulase test for the rapid identification of Staphylococcus aureus from blood culture. Cooke RP, et al. **J Clin Pathol** 1997 Feb;50(2):164–6
Comparison of methods for the isolation of methicillin resistant Staphylococcus aureus. Davies S, et al. **J Clin Pathol** 1997 Mar;50(3):257–8
Comparison of two commercial enzyme immunoassays with cytotoxicity assay and culture for the diagnosis of Clostridium difficile related diarrhea. Siarakas S, et al. **Pathology** 1996 May;28(2):178–81
Preparation and evaluation of bacterial stocks for filter validation. Fennington GJ Jr, et al. **PDA J Pharm Sci Technol** 1997 Jul–Aug;51(4):153–5

STATISTICS & NUMERICAL DATA

Evaluation of the Gen–Probe amplified Mycobacterium tuberculosis direct detection test. Fairfax MR. **Am J Clin Pathol** 1996 Nov;106(5):594–9

VETERINARY

Comparison between persisting anti–lipopolysaccharide antibodies and culture at postmortem in salmonella–infected cattle herds. Hoorfar J, et al. **Vet Microbiol** 1996 May;50(1–2):81–94

BACTERIOLOGY

The mycobacteriology laboratory. Past, present, and future. Heifets LB. **Clin Lab Med** 1996 Sep;16(3):513–25 (32 ref.)
65th Annual meeting of the Society for Applied Bacteriology summer conference. 15–18 July 1996, United Kingdom. Abstracts. **J Appl Bacteriol** 1996;81(2 Suppl):i–xxvii
Limitations of paperless on–line reporting of diagnostic bacteriology culture results. Block C, et al. **J Clin Pathol** 1996 Sep;49(9):759–61
Help! Latin! How to avoid the most common mistakes while giving Latin names to newly discovered prokaryotes. Trüper HG. **Microbiologia** 1996 Sep;12(3):473–5
A comparison of hypertext and Boolean access to biomedical information. Friedman CP, et al. **Proc AMIA Annu Fall Symp** 1996;:2–6
Defining "microbiology" [letter] Cepica A. **Science** 1997 Sep 19;277(5333):1747–8
The 1995 list. Proposed new bacterial taxa and proposed changes of bacterial names published during 1995 and considered to be of interest to medical or veterinary bacteriology. An informational note. Frederiksen W, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):9–15
The 1996 list. Proposed new bacterial taxa and proposed changes of bacterial names published during 1996 and considered to be of interest to medical or veterinary bacteriology. An informational note. Frederiksen W, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):17–22
[Role of hygiene and bacteriological laboratories in the management of an epidemic of Enterobacter aerogenes multiresistant to antibiotics] Meunier O, et al. **Ann Biol Clin (Paris)** 1997 Mar–Apr;55(2):129–37 (Eng. Abstr.) **(Fre)**
[The 70th annual meeting of the Japanese Society for Bacteriology. Tochigi, Japan. March 29–31, 1997. Abstracts] **Nippon Saikingaku Zasshi** 1997 Jan;52(1):1–392 **(Jpn)**
[The 69th annual meeting of the Japanese Society for Bacteriology. Fukuoka, Japan. March 27–29, 1996. Abstracts] **Nippon Saikingaku Zasshi** 1996 Jan;51(1):1–466 **(Jpn)**

HISTORY

The four postulates of Robert Koch. Croce P. **Riv Biol** 1996; 89(2):275–8
[Immunology in its century. Miguel F. Jiménez Conference, 1996] Kretschmer RR. **Gac Med Mex** 1996 Nov–Dec; 132(6):599–609 **(Spa)**

INSTRUMENTATION

Comparative study of a non–radiometric BACTEC system and a conventional blood culture system in a clinical microbiology laboratory. Yew OF, et al. **Malays J Pathol** 1995 Jun;17(1):11–5

METHODS see BACTERIOLOGICAL TECHNIQUES

ORGANIZATION & ADMINISTRATION

[Phthisiobacteriological service in the Republic of Sakha] Alekseeva GI. **Probl Tuberk** 1997;(2):11–3 (1 ref.) (Eng. Abstr.) **(Rus)**

STANDARDS

Tuberculosis bacteriology laboratory services and incremental protocols for developing countries. Laszlo A. **Clin Lab Med** 1996 Sep;16(3):697–716 (59 ref.)
Biosafety in the clinical mycobacteriology laboratory. Richmond JY, et al. **Clin Lab Med** 1996 Sep;16(3):527–50 (38 ref.)
Clinical mycobacteriology. Activities and recommendations by the association of state and territorial public health laboratory directors. Warren NG, et al. **Clin Lab Med** 1996 Sep;16(3):731–43 (24 ref.)
Quality assurance in the mycobacteriology laboratory. Quality control, quality improvement, and proficiency testing. Woods GL, et al. **Clin Lab Med** 1996 Sep; 16(3):657–75 (45 ref.)
Interlaboratory comparison of test results for detection of Lyme disease by 516 participants in the Wisconsin State Laboratory of Hygiene/College of American Pathologists Proficiency Testing Program. Bakken LL, et al. **J Clin Microbiol** 1997 Mar;35(3):537–43

BACTERIOLYSIS

see related
LYSOSTAPHIN
Lytic systems in lactic acid bacteria and their bacteriophages. Gasson MJ. **Antonie Van Leeuwenhoek** 1996 Oct; 70(2–4):147–59 (63 ref.)
Mode of action of a lysostaphin–like bacteriolytic agent produced by Streptococcus zooepidemicus 4881. Simmonds RS, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4536–41
Selective lysis of bacteria but not mammalian cells by diastereomers of melittin: structure–function study. Oren Z, et al. **Biochemistry** 1997 Feb 18;36(7):1826–35
Molecular analysis of lytic genes of bacteriophage 80 alpha of Staphylococcus aureus. Bon J, et al. **Can J Microbiol** 1997 Jul;43(7):612–6
Isolation and properties of bacteriolytic enzyme–producing cocci from the human mouth. Kanamoto T, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):135–40
Production of bacteriolytic enzymes as a tool for characterizing enterococci. Berlutti F, et al. **J Appl Bacteriol** 1996 Apr;80(4):447–52
Combinational detection of autolysin and penicillin–binding protein 2B genes of Streptococcus pneumoniae by PCR. Ubukata K, et al. **J Clin Microbiol** 1996 Mar;34(3):592–6
Why do many ruminal bacteria die and lyse so quickly? Wells JE, et al. **J Dairy Sci** 1996 Aug;79(8):1487–95 (97 ref.)
Heterogeneity in the complement–dependent bacteriolysis within the species of Borrelia burgdorferi. Breitner–Ruddock S, et al. **Med Microbiol Immunol (Berl)** 1997 Mar;185(4):253–60
A simple method to detect bacteriolytic enzymes produced by enterobacteriaceae. Branca G, et al. **Microbios** 1996; 86(349):205–12
The two–step lysis system of pneumococcal bacteriophage EJ–1 is functional in gram–negative bacteria: triggering of the major pneumococcal autolysin in Escherichia coli. Diaz E, et al. **Mol Microbiol** 1996 Feb;19(4):667–81
[Bacteriolytic enzymes produced by the staphylococci] Sugai M, et al. **Nippon Saikingaku Zasshi** 1997 Apr;52(2):461–73 (61 ref.) **(Jpn)**
[Lytic action of lysoamidase from Xanthomonas sp. correlates with the presence of the target ribitol teichoic acids in the cell wall of gram–positive bacteria] Kulaev IS, et al. **Mikrobiologiia** 1996 May–Jun;65(3):326–32 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Inhibition of cell wall turnover and autolysis by vancomycin in a highly vancomycin–resistant mutant of Staphylococcus aureus. Sieradzki K, et al. **J Bacteriol** 1997 Apr; 179(8):2557–66

GENETICS

Characterization of Bacillus subtilis mutants resistant to cold shock–induced autolysis. Yamanaka K, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):269–75

PHYSIOLOGY

The hydrophilic C–terminal part of the lambda S holin is non–essential for intermolecular interactions. Rietsch A, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):393–8
Two beginnings for a single purpose: the dual–start holins in the regulation of phage lysis. Bläsi U, et al. **Mol Microbiol** 1996 Aug;21(4):675–82 (39 ref.)
[The role of bacteriophage lambda coded proteins in destruction of the bacterial cell wall and the control of lysis timing] Kędzierska S, et al. **Postepy Biochem** 1996; 42(4):331–9 (49 ref.) **(Pol)**

BACTERIOPHAGE FD see **INOVIRUS**

BACTERIOPHAGE HK022 see **BACTERIOPHAGE LAMBDA**

BACTERIOPHAGE IKE see **INOVIRUS**

BACTERIOPHAGE LAMBDA

Immunological screening of lambda–phage cDNA expression libraries. Hurst HC. **Methods Mol Biol** 1997;69:155–9
Generation and PCR screening of bacteriophage gamma sublibraries enriched for rare clones (the "sublibrary method"). Lardelli M. **Methods Mol Biol** 1997;67:345–55
CDNA library construction for the Lambda ZAP–based vectors. Snead MA, et al. **Methods Mol Biol** 1997;69:39–51
Clone excision methods for the Lambda ZAP–based vectors. Snead MA, et al. **Methods Mol Biol** 1997;69:53–60
Proteolysis of the phage lambda CII regulatory protein by FtsH (HflB) of Escherichia coli. Shotland Y, et al. **Mol Microbiol** 1997 Jun;24(6):1303–10

CHEMISTRY

Three–dimensional solution structure and stability of phage 434 Cro protein. Padmanabhan S, et al. **Biochemistry** 1997 May 27;36(21):6424–36
The hydrophilic C–terminal part of the lambda S holin is non–essential for intermolecular interactions. Rietsch A, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):393–8
Characterization of the DNA–binding domain of beta protein, a component of phage lambda red–pathway, by UV catalyzed cross–linking. Mythili E, et al. **Gene** 1996 Dec 5;182(1–2):81–7
An aromatic stacking interaction between subunits helps mediate DNA sequence specificity: operator site discrimination by phage lambda cI repressor. Huang YT, et al. **J Mol Biol** 1997 Mar 28;267(2):403–17
Effects on protein structure and function of replacing tryptophan with 5–hydroxytryptophan: single–tryptophan mutants of the N–terminal domain of the bacteriophage lambda repressor. Kombo DC, et al. **J Protein Chem** 1996 Jan;15(1):77–86
A comparative study of dynamic structures between phage 434 Cro and repressor proteins by normal mode analysis. Wako H, et al. **Proteins** 1996 Sep;26(1):72–80

DRUG EFFECTS

Photochemical and photophysical studies of 3–amino–6–iodoacridine and the inactivation of lambda phage. Chen T, et al. **Photochem Photobiol** 1996 Oct; 64(4):622–31

ENZYMOLOGY

Incorporation of trifluoromethionine into a phage lysozyme: implications and a new marker for use in protein 19F NMR. Duewel H, et al. **Biochemistry** 1997 Mar 18;36(11):3404–16
Kinetic analysis of the endonuclease activity of phage lambda terminase: assembly of a catalytically competent nicking complex is rate–limiting. Woods L, et al. **Biochemistry** 1997 May 13;36(19):5777–85
Kinetic characterization of the strand separation ("helicase") activity of the DNA packaging enzyme from bacteriophage lambda. Yang Q, et al. **Biochemistry** 1997 Sep 2; 36(35):10638–45
The isomeric preference of Holliday junctions influences resolution bias by lambda integrase. Azaro MA, et al. **EMBO J** 1997 Jun;16(12):3744–55
Kinetic and spectroscopic analyses of mutants of a conserved histidine in the metallophosphatases calcineurin and lambda protein phosphatase. Mertz P, et al. **J Biol Chem** 1997 Aug 22;272(34):21296–302
Identification and characterization of the N–ethylmaleimide–sensitive site in lambda–integrase. Tirumalai RS, et al. **J Biol Chem** 1996 Nov 22; 271(47):29599–604
Mutations in the terminase genes of bacteriophage lambda that bypass the necessity for FI. Murialdo H, et al. **Mol Microbiol** 1997 Jun;24(5):937–52
Modulation of lambda integrase synthesis by rare arginine tRNA. Zahn K, et al. **Mol Microbiol** 1996 Jul;21(1):69–76
The catalytic domain of lambda site–specific recombinase. Tirumalai RS, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6104–9
The cis–trans paradox of integrase [see comments] Jayaram M. **Science** 1997 Apr 4;276(5309):49–51 (22 ref.). Comment in: Science 1997 Apr 4;276(5309):126–31.
Flexibility in DNA recombination: structure of the lambda integrase catalytic core [see comments] Kwon HJ, et al. **Science** 1997 Apr 4;276(5309):126–31. Comment in: Science 1997 Apr 4;276(5309):49.

GENETICS

A method for the assessment of the presence of an insert in lambda gt 11 clones during a cDNA library screening. Battiston L, et al. **Anal Biochem** 1996 Nov 15;242(2):278–80
Analysis of the enterohemorrhagic Escherichia coli O157 DNA region containing lambdoid phage gene p and Shiga–like toxin structural genes. Datz M, et al. **Appl Environ Microbiol** 1996 Mar;62(3):791–7
Kinetic analysis of the endonuclease activity of phage lambda terminase: assembly of a catalytically competent nicking complex is rate–limiting. Woods L, et al. **Biochemistry** 1997

May 13;36(19):5777–85

Mammalian cell binding and transfection mediated by surface-modified bacteriophage lambda. Dunn IS. **Biochimie** 1996;78(10):856–61

Device for the simultaneous screening of bacteriophage lambda clones. Espinosa L, et al. **Biotechniques** 1996 Jan; 20(1):18–9

Rapid mapping and subcloning of genomic clones in bacteriophage lambda by PCR. Woo HH, et al. **Biotechniques** 1997 May;22(5):822–4

Species-specific differences in hepatic mutant frequency and mutational spectrum among lambda/lacI transgenic rats and mice following exposure to aflatoxin B1. Dycaico MJ, et al. **Carcinogenesis** 1996 Nov;17(11):2347–56

Rapid isolation of recombinant lambda phage DNA for use in fluorescence in situ hybridization. Wilcox SA, et al. **Chromosome Res** 1996 Aug;4(5):397–8

Expression plasmid vectors with convenient subcloning sites in lambda gt11 that efficiently produce detectable tagged proteins. Takemoto Y, et al. **DNA Cell Biol** 1997 Jul; 16(7):893–6

Marker pattern instabilities as a major cause of reproducibility problems in two-dimensional DNA fingerprinting. Hampe J, et al. **Electrophoresis** 1996 Apr;17(4):659–66

The effect of ethidium bromide on mobility of DNA fragments in agarose gel electrophoresis. Sigmon J, et al. **Electrophoresis** 1996 Oct;17(10):1524–7

Dispersion coefficients of lambda DNA in agarose gels during electrophoresis by fringe recovery after photobleaching. Tinland B. **Electrophoresis** 1996 Oct; 17(10):1519–23

Tissue specificity of spontaneous point mutations in lambda supF transgenic mice. Leach EG, et al. **Environ Mol Mutagen** 1996;28(4):459–64

In vitro alpha-complementation of beta-galactosidase on a bacteriophage surface. Dunn IS. **Eur J Biochem** 1996 Dec 15;242(3):720–6

Drastically decreased transcription from CII-activated promoters is responsible for impaired lysogenization of the Escherichia coli rpoA341 mutant by bacteriophage lambda. Szalewska-Pałasz A, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):21–7

Replication and amplification of lambda plasmids in Escherichia coli during amino acid starvation and limitation. Wróbel B, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):151–7

Total modification of the bacteriophage lambda tail tube major subunit protein with foreign peptides. Dunn IS. **Gene** 1996 Dec 12;183(1–2):15–21

The Rex phenotype of altruistic cell death following infection of a lambda lysogen by T4rII mutants is suppressed by plasmids expressing OOP RNA. Hayes S, et al. **Gene** 1997 Apr 11;189(1):35–42

LambdaZLG6: a phage lambda vector for high-efficiency cloning and surface expression of cDNA libraries on filamentous phage. Jespers LS, et al. **Gene** 1996 Sep 16; 173(2):179–81

Stable high-copy-number bacteriophage lambda promoter vectors for overproduction of proteins in Escherichia coli. Love CA, et al. **Gene** 1996 Oct 17;176(1–2):49–53

Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways. Segall AM, et al. **Genes Cells** 1996 May;1(5):453–63

Protein inheritance: lambda plasmid replication perpetuated by the heritable replication complex. Węgrzyn A, et al. **Genes Cells** 1996 Nov;1(11):953–63

An RNA enhancer in a phage transcriptional antitermination complex functions as a structural switch. Su L, et al. **Genes Dev** 1997 Sep 1;11(17):2214–26

Genetic analysis of the bacteriophage lambda attL nucleoprotein complex. MacWilliams MP, et al. **Genetics** 1996 Jul;143(3):1069–79

Homology requirements for double-strand break-mediated recombination in a phage lambda-td intron model system. Parker MM, et al. **Genetics** 1996 Jul;143(3):1057–68

Fis is required for illegitimate recombination during formation of lambda bio transducing phage. Shanado Y, et al. **J Bacteriol** 1997 Jul;179(13):4239–45

Upstream interactions at the lambda pRM promoter are sequence nonspecific and activate the promoter to a lesser extent than an introduced UP element of an rRNA promoter. Tang Y, et al. **J Bacteriol** 1996 Dec; 178(23):6945–51

Genetic analysis of second-site revertants of bacteriophage lambda integrase mutants. Wu Z, et al. **J Bacteriol** 1997 Jun;179(12):4030–8

DNA breakage by uric acid and Cu(II): binding of uric acid to DNA and biological activity of the reaction. Shamsi FA, et al. **J Biochem Toxicol** 1996;11(2):67–71

Inhibition of Escherichia coli protein synthesis by abortive translation of phage lambda minigenes. Ontiveros C, et al. **J Mol Biol** 1997 Jun 6;269(2):167–75

Bacteriophage lambda-based expression vectors. Christensen AC. **Methods Mol Biol** 1997;62:29–36

Expression and preparation of fusion proteins from recombinant lambda gt11 phages. Huang SH, et al. **Methods Mol Biol** 1997;69:241–5

Epitope mapping using random fragment expression libraries in lambda phages. Porzig H, et al. **Methods Mol Biol** 1996; 66:257–68

Bacteriophage lambda lysis gene product modified and inserted into Escherichia coli outer membrane: Rz1 lipoprotein. Taylor A, et al. **Microb Drug Resist** 1996 Spring;2(1):147–53 (36 ref.)

A second site-specific recombination event in the lambdoid bacteriophage HK022. Kolot M, et al. **Mol Gen Genet** 1996 Dec 13;253(3):362–9

Impaired lysogenisation of the Escherichia coli rpoA341 mutant by bacteriophage lambda is due to the inability of CII to act as a transcriptional activator. Obuchowski M, et al. **Mol Gen Genet** 1997 Apr 16;254(3):304–11

Allele specificity of the Escherichia coli dnaA gene function in the replication of plasmids derived from phage lambda. Węgrzyn G, et al. **Mol Gen Genet** 1996 Oct 16;252(5):580–6

Insertion of 2 kb of bacteriophage DNA between an immunoglobulin promoter and leader exon stops somatic hypermutation in a kappa transgene. Winter DB, et al. **Mol Immunol** 1997 Apr;34(5):359–66

Mutations of the coat protein gene of bacteriophage lambda that overcome the necessity for the Fl gene; the EFi domain. Murialdo H, et al. **Mol Microbiol** 1997 Apr; 24(2):341–53

The alpha subunit of RNA polymerase and transcription antitermination. Schauer AT, et al. **Mol Microbiol** 1996 Aug;21(4):839–51

Modulation of lambda integrase synthesis by rare arginine tRNA. Zahn K, et al. **Mol Microbiol** 1996 Jul;21(1):69–76

Efficient epitope mapping by bacteriophage lambda surface display. Kuwabara I, et al. **Nat Biotechnol** 1997 Jan; 15(1):74–8

Recognition of DNA by single-chain derivatives of the phage 434 repressor: high affinity binding depends on both the contacted and non-contacted base pairs. Chen J, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2047–54

Ligation-mediated PCR amplification of specific fragments from a class-II restriction endonuclease total digest. Guilfoyle RA, et al. **Nucleic Acids Res** 1997 May 1; 25(9):1854–8

Single-strand DNA intermediates in phage lambda's Red recombination pathway. Hill SA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2951–6

Cryptic single-stranded-DNA binding activities of the phage lambda P and Escherichia coli DnaC replication initiation proteins facilitate the transfer of E. coli DnaB helicase onto DNA. Learn BA, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1154–9

Changing the mechanism of transcriptional activation by phage lambda repressor. Li M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3691–6

High-yield DNA preparation from liquid phage lambda cultures. Burmeister M, et al. **Trends Genet** 1996 Oct; 12(10):389

Mutations affecting lysine-35 of gpNu1, the small subunit of bacteriophage lambda terminase, alter the strength and specificity of holoterminase interactions with DNA. Hwang Y, et al. **Virology** 1997 May 12;231(2):218–30

[The role of bacteriophage lambda coded proteins in destruction of the bacterial cell wall and the control of lysis timing] Kędzierska S, et al. **Postepy Biochem** 1996; 42(4):331–9 (49 ref.) **(Pol)**

[Cooperation of phage and bacterial proteins in bacteriophage lambda DNA replication] Marszałek J. **Postepy Biochem** 1997;43(1):5–12 (58 ref.) **(Pol)**

[Attenuation of bacteriophage phi80 repression] Kozyrev DP, et al. **Genetika** 1996 Sep;32(9):1172–5 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Inhibition of prophage induction by synthetic pentapeptide. Abdel-Rahman S, et al. **Int J Pept Protein Res** 1996 Sep; 48(3):215–9

Photochemical and photophysical studies of 3-amino-6-iodoacridine and the inactivation of lambda phage. Chen T, et al. **Photochem Photobiol** 1996 Oct; 64(4):622–31

Induction of lambda prophage by 213 nm laser radiation: a quantitative comparison with 193 nm excimer radiation using image analysis. Matchette LS, et al. **Photochem Photobiol** 1996 Mar;63(3):281–5

IMMUNOLOGY

Isolation of cell surface-specific human monoclonal antibodies using phage display and magnetically-activated cell sorting: applications in immunohematology. Siegel DL, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):73–85

METABOLISM

An RNA enhancer in a phage transcriptional antitermination complex functions as a structural switch. Su L, et al. **Genes Dev** 1997 Sep 1;11(17):2214–26

Mutational analysis of protein binding sites involved in formation of the bacteriophage lambda attL complex. MacWilliams M, et al. **J Bacteriol** 1997 Feb;179(4):1059–67

The levanase operon of Bacillus subtilis expressed in Escherichia coli can substitute for the mannose permease in mannose uptake and bacteriophage lambda infection. Martin-Verstraete I, et al. **J Bacteriol** 1996 Dec; 178(24):7112–9

Modulation of EcoKI restriction in vivo: role of the lambda Gam protein and plasmid metabolism. Salaj-Smic E, et al. **J Bacteriol** 1997 Mar;179(6):1852–6

Single-chain repressors containing engineered DNA-binding domains of the phage 434 repressor recognize symmetric or asymmetric DNA operators. Simoncsits A, et al. **J Mol Biol** 1997 Mar 21;267(1):118–31

Immunoprinting: a technique used to study dynamic protein-nucleic acid interactions within transcription elongation complex. Das A, et al. **Methods Enzymol** 1996; 274:363–74

Components of multiprotein-RNA complex that controls transcription elongation in Escherichia coli phage lambda. Das A, et al. **Methods Enzymol** 1996;274:374–402

Photochemical cross-linking analysis of protein-nucleic acid interactions in Escherichia coli transcription complexes from lambda PR' promoter. Hanna MM. **Methods Enzymol** 1996;274:403–18

Binding properties of SH3 peptide ligands identified from phage-displayed random peptide libraries. Hoffman NG, et al. **Mol Divers** 1996 Oct;2(1–2):5–12

Host regulation of lysogenic decision in bacteriophage lambda: transmembrane modulation of FtsH (HflB), the cII degrading protease, by HflKC (HflA). Kihara A, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5544–9

PHYSIOLOGY

Oxygen free radicals produced by Entamoeba histolytica are able to cause biological damage. Muñoz-Sánchez JL, et al. **Arch Med Res** 1997;28 Spec No:154–5

Assembly of a nucleoprotein complex required for DNA packaging by bacteriophage lambda. Yang Q, et al. **Biochemistry** 1997 Mar 11;36(10):2744–52

Mutations in Nu1, the gene encoding the small subunit of bacteriophage lambda terminase, suppress the postcleavage DNA packaging defect of cosB mutations. Cai ZH, et al. **J Bacteriol** 1997 Apr;179(8):2479–85

Characterization of the helper proteins for the assembly of tail fibers of coliphages T4 and lambda. Hashemolhosseini S, et al. **J Bacteriol** 1996 Nov;178(21):6258–65

Stability of CII is a key element in the cold stress response of bacteriophage lambda infection. Obuchowski M, et al. **J Bacteriol** 1997 Oct;179(19):5987–91

In vivo packaging of bacteriophage lambda monomeric chromosomes. Thomason LC, et al. **J Mol Biol** 1997 Mar 21;267(1):75–87

RADIATION EFFECTS

Induction of lambda prophage by 213 nm laser radiation: a quantitative comparison with 193 nm excimer radiation using image analysis. Matchette LS, et al. **Photochem Photobiol** 1996 Mar;63(3):281–5

BACTERIOPHAGE M13

Phage display of Bacillus thuringiensis CryIA(a) insecticidal toxin. Marzari R, et al. **FEBS Lett** 1997 Jul 7;411(1):27–31

Analysis of antibody selection by phage display utilizing anti-phenobarbital antibodies. Malone J, et al. **J Mol Recognit** 1996 Sep-Dec;9(5–6):738–45

Foreign (M13) DNA ingested by mice reaches peripheral leukocytes, spleen, and liver via the intestinal wall mucosa and can be covalently linked to mouse DNA. Schubbert R, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):961–6

CHEMISTRY

Backbone dynamics of the major coat protein of bacteriophage M13 in detergent micelles by 15N nuclear magnetic resonance relaxation measurements using the model-free approach and reduced spectral density mapping. Papavoine CH, et al. **Biochemistry** 1997 Apr 1; 36(13):4015–26

In situ aggregational state of M13 bacteriophage major coat protein in sodium cholate and lipid bilayers. Stopar D, et al. **Biochemistry** 1997 Oct 7;36(40):12268–75

Mimotopes of polyreactive anti-DNA antibodies identified using phage-display peptide libraries. Sibille P, et al. **Eur J Immunol** 1997 May;27(5):1221–8

Structure and dynamics of the M13 coat signal sequence in membranes by multidimensional high-resolution and solid-state NMR spectroscopy. Bechinger B. **Proteins** 1997 Apr;27(4):481–92

Analyzing sequencing reactions from bacteriophage M13 by matrix-assisted laser desorption/ionization mass spectrometry. Mouradian S, et al. **Rapid Commun Mass Spectrom** 1996;10(12):1475–8

DRUG EFFECTS

Factors affecting M13 bacteriophage inactivation by methylene blue photosensitization. Abe H, et al. **Photochem Photobiol** 1997 May;65(5):873–6

GENETICS

Use of phage expression to analyze regions of a human V4-34(VH4-21)-encoded IgG autoantibody required for recognition of DNA. No involvement of the 9G4 idiotope. Mockridge I, et al. **Ann N Y Acad Sci** 1997 Apr 5; 815:338–41

Anti-vaccinia virus effect of M13 bacteriophage DNA. Mori K, et al. **Antiviral Res** 1996 Jun;31(1–2):79–86

Replication of M13 single-stranded viral DNA bearing single site-specific adducts by escherichia coli cell extracts: differential efficiency of translesion DNA synthesis for SOS-dependent and SOS-independent lesions. Wang G,

et al. **Biochemistry** 1997 Aug 5;36(31):9486–92
Method for 96-well M13 DNA template preparations for large-scale sequencing. Andersson B, et al. **Biotechniques** 1996 Jun;20(6):1022–7
Site-directed mutagenesis by unique site elimination using filamentous phage-derived ssDNA templates for plasmids that are resistant to denaturation. Ogretmen B, et al. **Biotechniques** 1996 Aug;21(2):209–13
Replication of M13 single-stranded DNA bearing a site-specific ethenocytosine lesion by Escherichia coil cell extracts. Wang G, et al. **Cell Res** 1997 Jun;7(1):1–12
Role of G-->T transversions in the mutagenicity of alkylperoxyl radicals: induction of alkali-labile sites in bacteriophage M13mp19. Harkin LA, et al. **Chem Res Toxicol** 1997 May;10(5):575–81
T7-promoter-based Escherichia coli expression system induced with bacteriophage M13HEP. Chen C, et al. **Chin J Biotechnol** 1996;12(4):207–13
Versatile vectors for direct cloning and ligation-independent cloning of PCR-amplified fragments for surface display on filamentous bacteriophages. Sampath A, et al. **Gene** 1997 Apr 29;190(1):5–10
Mutations induced by gamma-irradiation of M13 bacteriophages containing single-stranded DNA. Braun JE, et al. **Int J Radiat Biol** 1996 Oct;70(4):459–65
Mapping of epitopes recognized by PM/Scl autoantibodies with gene-fragment phage display libraries. Blüthner M, et al. **J Immunol Methods** 1996 Nov 13;198(2):187–98
Stable heterodimers from remodeling the domain interface of a homodimer using a phage display library. Atwell S, et al. **J Mol Biol** 1997 Jul 4;270(1):26–35
Phage-displayed peptides as tools for characterization of human sera. Felici F, et al. **Methods Enzymol** 1996; 267:116–29
Affinity maturation of proteins displayed on surface of M13 bacteriophage as major coat protein fusions. Roberts BL, et al. **Methods Enzymol** 1996;267:68–82
Phage display of proteases and macromolecular inhibitors. Wang CI, et al. **Methods Enzymol** 1996;267:52–68
Sequencing PCR products cloned into M13 vectors. Brewis N. **Methods Mol Biol** 1996;65:185–91
Epitope mapping using phage-displayed peptide libraries. Dottavio D. **Methods Mol Biol** 1996;66:181–93
Cloning PCR products for sequencing in M13 vectors. Walsh D. **Methods Mol Biol** 1996;65:177–84
A combinatorial method for constructing libraries of long peptides displayed by filamentous phage. Haaparanta T, et al. **Mol Divers** 1995 Sep;1(1):39–52
Construction and screening of M13 phage libraries displaying long random peptides. McConnell SJ, et al. **Mol Divers** 1996 May;1(3):165–76
Transcription-induced deletions in plasmid vectors: M13 DNA replication as a source of instability. Vilette D, et al. **Mol Gen Genet** 1996 Sep 25;252(4):398–403
Effect of UVM induction on mutation fixation at non-pairing and mispairing DNA lesions. Rahman MS, et al. **Mol Microbiol** 1996 Nov;22(4):747–55
Effect of the sulfhydryl compound cysteamine on gamma-radiation-induced mutations in double-stranded M13 DNA. Braun JE, et al. **Mutat Res** 1996 Dec 2; 364(3):171–82
Replication bypass and mutagenic effect of alpha-deoxyadenosine site-specifically incorporated into single-stranded vectors. Shimizu H, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):597–603
M13mtvh: an improved M13 vector for rapid and simple cloning of PCR products. Schlötterer C, et al. **Trends Genet** 1996 Aug;12(8):286–7
[Identification and classification of strains of microorganisms using genomic fingerprinting with biotinylated phage M13 DNA] Oreshkova SF, et al. **Genetika** 1996 Jun;32(6):740–3 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Evaluation of filamentous bacteriophage as immunogens in Atlantic salmon. Coull JJ, et al. **Biochem Soc Trans** 1996 May;24(2):255S
Phage-displayed La/SS-B antigen as a diagnostic reagent. Poon VK, et al. **Immunotechnology** 1997 Jun;3(2):155–9
Use of phage surface expression to analyze regions of human V4-34(VH4-21)-encoded IgG autoantibody required for recognition of DNA: no involvement of the 9G4 idiotope. Mockridge CI, et al. **J Immunol** 1996 Sep 15;157(6):2449–54
A model system for detection and isolation of a tumor cell surface antigen using antibody phage display. Pereira S, et al. **J Immunol Methods** 1997 Apr 11;203(1):11–24

METABOLISM

A selection system to study protein-RNA interactions: functional display of HIV-1 Tat protein on filamentous bacteriophage M13. Hoffmann S, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):806–11
The C-terminal domain of TolA is the coreceptor for filamentous phage infection of E. coli. Riechmann L, et al. **Cell** 1997 Jul 25;90(2):351–60
Analysis of peptide-binding motifs for two disease associated HLA-DR13 alleles using an M13 phage display library. Davenport MP, et al. **Immunology** 1996 Aug;88(4):482–6

RADIATION EFFECTS

Mutations induced by gamma-irradiation of M13 bacteriophages containing single-stranded DNA. Braun JE, et al. **Int J Radiat Biol** 1996 Oct;70(4):459–65

BACTERIOPHAGE MS2 see LEVIVIRUS

BACTERIOPHAGE MU

Mini-Mu technology in Salmonella typhi: isolation of stable MudJ operon fusions by cis complementation. Contreras I, et al. **Biol Res** 1994;27(3–4):233–9

ENZYMOLOGY

The Mu transposase tetramer is inactive in unassisted strand transfer: an auto-allosteric effect of Mu A promotes the reaction in the absence of Mu B. Wu Z, et al. **J Mol Biol** 1997 Mar 21;267(1):132–41

GENETICS

DNA transposition: jumping gene machine, some assembly required. Chaconas G, et al. **Curr Biol** 1996 Jul 1; 6(7):817–20 (19 ref.)
C-terminal deletions can suppress temperature-sensitive mutations and change dominance in the phage Mu repressor. Vogel JL, et al. **Genetics** 1996 Mar;142(3):661–72
Function of the C-terminal domain of the alpha subunit of Escherichia coli RNA polymerase in basal expression and integration host factor-mediated activation of the early promoter of bacteriophage Mu. van Ulsen P, et al. **J Bacteriol** 1997 Jan;179(2):530–7
The integration host factor-DNA complex upstream of the early promoter of bacteriophage Mu is functionally symmetric. van Ulsen P, et al. **J Bacteriol** 1997 May; 179(9):3073–5
The site-specific recombinase encoded by pinD in Shigella dysenteriae is due to the presence of a defective Mu prophage. Tominaga A. **Microbiology** 1997 Jun;143 (Pt 6):2057–63
The Mu strong gyrase-binding site promotes efficient synapsis of the prophage termini. Pato ML, et al. **Mol Microbiol** 1996 Oct;22(2):283–92
Integration host factor alleviates the H-NS-mediated repression of the early promoter of bacteriophage Mu. van Ulsen P, et al. **Mol Microbiol** 1996 Aug;21(3):567–78

GROWTH & DEVELOPMENT

Bacteriophage Mu gem2ts, which induces synchronous cell division in the infected host, is mutated in the gem operon promoter. Valle RL, et al. **Res Microbiol** 1996 Oct; 147(8):615–8

METABOLISM

Communication of ClpXP protease hypersensitivity to bacteriophage Mu repressor isoforms. Welty DJ, et al. **J Mol Biol** 1997 Sep 12;272(1):31–41

PHYSIOLOGY

ClpX and MuB interact with overlapping regions of Mu transposase: implications for control of the transposition pathway. Levchenko I, et al. **Genes Dev** 1997 Jun 15; 11(12):1561–72

BACTERIOPHAGE N4 see PODOVIRIDAE

BACTERIOPHAGE P1

A strategy of exon shuffling for making large peptide repertoires displayed on filamentous bacteriophage. Fisch I, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7761–6

ENZYMOLOGY

Genomic targeting with an MBP-Cre fusion protein [published erratum appears in Gene 1997 Apr 11;189(1):149] Kolb AF, et al. **Gene** 1996 Dec 12; 183(1–2):53–60
Recombinant adenoviruses with large deletions generated by Cre-mediated excision exhibit different biological properties compared with first-generation vectors in vitro and in vivo. Lieber A, et al. **J Virol** 1996 Dec; 70(12):8944–60

GENETICS

The bacteriophage P1 lytic replicon: directionality of replication and cis-acting elements. Cohen G, et al. **Gene** 1996 Oct 10;175(1–2):151–5
Retrofitting high molecular weight DNA cloned in P1: introduction of reporter genes, markers selectable in mammalian cells and generation of nested deletions. Chatterjee PK, et al. **Genet Anal** 1996 Jul;13(2):33–42
A P1-based physical map of the Drosophila euchromatic genome. Kimmerly W, et al. **Genome Res** 1996 May; 6(5):414–30 (37 ref.)
Retrofitting vectors for Escherichia coli-based artificial chromosomes (PACs and BACs) with markers for transfection studies. Mejía JE, et al. **Genome Res** 1997 Feb; 7(2):179–86
Antibody expression from the core region of the human IgH locus reconstructed in transgenic mice using bacteriophage P1 clones. Wagner SD, et al. **Genomics** 1996 Aug 1; 35(3):405–14
Purification and characterization of HP1 Cox and definition of its role in controlling the direction of site-specific recombination. Esposito D, et al. **J Biol Chem** 1997 Mar 28;272(13):8660–70
The iteron bases and spacers of the P1 replication origin contain information that specifies the formation of a complex structure involved in initiation. Brendler TG, et al. **Mol Microbiol** 1997 Feb;23(3):559–67
The type IC hsd loci of the enterobacteria are flanked by DNA with high homology to the phage P1 genome: implications for the evolution and spread of DNA restriction systems. Tyndall C, et al. **Mol Microbiol** 1997 Feb;23(4):729–36
Isolating large nested deletions in bacterial and P1 artificial chromosomes by in vivo P1 packaging of products of Cre-catalysed recombination between the endogenous and a transposed loxP site. Chatterjee PK, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2205–12

BACTERIOPHAGE P2

GENETICS

Cloning and characterization of bacteriophage-like DNA from Haemophilus somnus homologous to phages P2 and HP1. Pontarollo RA, et al. **J Bacteriol** 1997 Mar; 179(6):1872–9
Derepression of prophage P2 by satellite phage P4: cloning of the P4 epsilon gene and identification of its product. Liu T, et al. **J Virol** 1997 Jun;71(6):4502–8

GROWTH & DEVELOPMENT

Escherichia coli rpoC397 encodes a temperature-sensitive C-terminal frameshift in the beta' subunit of RNA polymerase that blocks growth of bacteriophage P2. Christie GE, et al. **J Bacteriol** 1996 Dec;178(23):6991–3

METABOLISM

The N-terminal part of bacteriophage P2 capsid protein is essential for postassembly maturation of P2 and P4 capsids. Bjerve K, et al. **Virology** 1996 Oct 15;224(2):568–72
The two P2 Ogr-like domains of the delta protein from bacteriophage P4 are required for activity. Julien B, et al. **Virology** 1997 Apr 14;230(2):292–9
A novel mechanism of virus-virus interactions: bacteriophage P2 Tin protein inhibits phage T4 DNA synthesis by poisoning the T4 single-stranded DNA binding protein, gp32. Mosig G, et al. **Virology** 1997 Mar 31;230(1):72–81

BACTERIOPHAGE P22

CHEMISTRY

Side-chain specificity at three temperature-sensitive folding mutation sites of P22 tailspike protein. Lee SC, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):857–62
The folded conformation of phage P22 coat protein is affected by amino acid substitutions that lead to a cold-sensitive phenotype. Fong DG, et al. **Biochemistry** 1997 Apr 1;36(13):3971–80
Interaction of Salmonella phage P22 with its O-antigen receptor studied by X-ray crystallography. Steinbacher S, et al. **Biol Chem** 1997 Mar-Apr;378(3–4):337–43
Bacteriophage P22 scaffolding protein forms oligomers in solution. Parker MH, et al. **J Mol Biol** 1997 May 9; 268(3):655–65
Phage P22 tailspike protein: crystal structure of the head-binding domain at 2.3 A, fully refined structure of the endorhamnosidase at 1.56 A resolution, and the molecular basis of O-antigen recognition and cleavage. Steinbacher S, et al. **J Mol Biol** 1997 Apr 11;267(4):865–80
Interaction with DNA of oligopeptides related to the Arc repressor. Helbecque N, et al. **Pept Res** 1996 Jan-Feb; 9(1):21–7
Conformation of P22 tailspike folding and aggregation intermediates probed by monoclonal antibodies. Speed MA, et al. **Protein Sci** 1997 Jan;6(1):99–108

GENETICS

Side-chain specificity at three temperature-sensitive folding mutation sites of P22 tailspike protein. Lee SC, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):857–62
Peptide display on functional tailspike protein of bacteriophage P22. Carbonell X, et al. **Gene** 1996 Oct 17; 176(1–2):225–9
A Salmonella phage-P22 mutant defective in abortive transduction. Benson NR, et al. **Genetics** 1997 Jan; 145(1):17–27
Transduction of low-copy number plasmids by bacteriophage P22. Mann BA, et al. **Genetics** 1997 Jun;146(2):447–56
Direct genetic selection of two classes of R17/MS2 coat proteins with altered capsid assembly properties and expanded RNA-binding activities. Wang S, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1649–57
Cloning, purification, and preliminary characterization by circular dichroism and NMR of a carboxyl-terminal domain of the bacteriophage P22 scaffolding protein. Parker MH, et al. **Protein Sci** 1997 Jul;6(7):1583–6
Antisense RNA control of gene expression in bacteriophage P22. I. Structures of sar RNA and its target, ant mRNA. Schaefer KL, et al. **RNA** 1997 Feb;3(2):141–56

BACTERIOPHAGE P22

Antisense RNA control of gene expression in bacteriophage P22. II. Kinetic mechanism and cation specificity of the pairing reaction. Schaefer KL, et al. **RNA** 1997 Feb; 3(2):157–74

METABOLISM

Interactions between coat and scaffolding proteins of phage P22 are altered in vitro by amino acid substitutions in coat protein that cause a cold-sensitive phenotype. Teschke CM, et al. **Biochemistry** 1996 Nov 26;35(47):14831–40

Quantitative specificity of the Mnt repressor. Fields DS, et al. **J Mol Biol** 1997 Aug 15;271(2):178–94

Prevalence of temperature sensitive folding mutations in the parallel beta coil domain of the phage P22 tailspike endorhamnosidase. Haase-Pettingell C, et al. **J Mol Biol** 1997 Mar 21;267(1):88–102

PHYSIOLOGY

Interactions of phage P22 tails with their cellular receptor, Salmonella O-antigen polysaccharide. Baxa U, et al. **Biophys J** 1996 Oct;71(4):2040–8

Scaffolding mutants identifying domains required for P22 procapsid assembly and maturation. Greene B, et al. **Virology** 1996 Nov 1;225(1):82–96

ULTRASTRUCTURE

Crystal structure of phage P22 tailspike protein complexed with Salmonella sp. O-antigen receptors. Steinbacher S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10584–8

BACTERIOPHAGE PF1 see **INOVIRUS**

BACTERIOPHAGE PHI X 174

CHEMISTRY

Structure of a viral procapsid with molecular scaffolding. Dokland T, et al. **Nature** 1997 Sep 18;389(6648):308–13

DRUG EFFECTS

Mucochloric acid action on phi X174 DNA: a comparison to other chlorine-substituted 2(5H)-furanones. LaLonde RT, et al. **Chem Res Toxicol** 1997 Feb;10(2):205–10

GENETICS

[Silent mutations in the region of overlapping genes] Kozlov NN. **Dokl Akad Nauk** 1996 Oct;350(5):699–703 **(Rus)**

IMMUNOLOGY

Normal immunologic response to a neoantigen, bacteriophage phiX-174, in baboons with long-term lymphohematopoietic reconstitution from highly purified CD34+ Lin- allogeneic marrow cells. Andrews RG, et al. **Blood** 1997 Aug 15;90(4):1701–8

Bispecific monoclonal antibody complexes bound to primate erythrocyte complement receptor 1 facilitate virus clearance in a monkey model. Taylor RP, et al. **J Immunol** 1997 Jan 15;158(2):842–50

ISOLATION & PURIFICATION

A validatible porosimetric technique for verifying the integrity of virus-retentive membranes. Phillips MW, et al. **Biologicals** 1996 Sep;24(3):243–53

PHYSIOLOGY

An in vitro evaluation of condoms as barriers to a small virus. Lytle CD, et al. **Sex Transm Dis** 1997 Mar;24(3):161–4

Genetic analysis of the phi X174 DNA binding protein. Jennings B, et al. **Virology** 1997 Jan 20;227(2):370–7

BACTERIOPHAGE PHI 6

GENETICS

An in vitro system for the investigation of heterologous RNA recombination. Qiao X, et al. **Virology** 1997 Jan 6; 227(1):103–10

GROWTH & DEVELOPMENT

Protein P7 of phage phi6 RNA polymerase complex, acquiring of RNA packaging activity by in vitro assembly of the purified protein onto deficient particles. Juuti JT, et al. **J Mol Biol** 1997 Mar 14;266(5):891–900

ULTRASTRUCTURE

Intermediates in the assembly pathway of the double-stranded RNA virus phi6. Butcher SJ, et al. **EMBO J** 1997 Jul 16;16(14):4477–87

BACTERIOPHAGE PHI 29 see **BACILLUS PHAGES**

BACTERIOPHAGE PHI 105 see **BACILLUS PHAGES**

BACTERIOPHAGE Q BETA see **ALLOLEVIVIRUS**

BACTERIOPHAGE T2 see **MYOVIRIDAE**

BACTERIOPHAGE T3

[A nested deletion method for cosmid DNA using the bacteriophage T3 in vitro packaging system] Kawarabayasi Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Jun; 42(8):1327–31 (6 ref.) **(Jpn)**

GENETICS

A bacteriophage T3 promoter can be linked to a lethal gene without detectable toxicity for eukaryotic cells. Interest for inducible transgenes. Amouyal M. **C R Acad Sci III** 1996 Dec;319(12):1079–85

An improved cosmid vector for the nested deletion method using the bacteriophage T3 DNA packaging system. Kawarabayasi Y, et al. **DNA Res** 1996 Feb 29;3(1):37–42

PCR-directed formation of viral hybrids in vitro. Khan SA, et al. **Virology** 1997 Jan 20;227(2):409–19

BACTERIOPHAGE T4

CHEMISTRY

Structural adaptations in the specialized bacteriophage T4 co-chaperonin Gp31 expand the size of the Anfinsen cage. Hunt JF, et al. **Cell** 1997 Jul 25;90(2):361–71

The activation domain of the MotA transcription factor from bacteriophage T4. Finnin MS, et al. **EMBO J** 1997 Apr 15;16(8):1992–2003

Isolation and characterization of a molecular chaperone, gp57A, of bacteriophage T4. Matsui T, et al. **J Bacteriol** 1997 Mar;179(6):1846–51

Multiple conformational states of the bacteriophage T4 capsid surface lattice induced when expansion occurs without prior cleavage. Kocsis E, et al. **J Struct Biol** 1997 Feb; 118(1):73–82

DRUG EFFECTS

A bacteriophage model system for studying topoisomerase inhibitors. Kreuzer KN. **Adv Pharmacol** 1994;29B:171–86 (85 ref.)

ENZYMOLOGY

ADP-ribosylation and early transcription regulation by bacteriophage T4. Wilkens K, et al. **Adv Exp Med Biol** 1997;419:71–82 (34 ref.)

Functional consequences and exonuclease kinetic parameters of point mutations in bacteriophage T4 DNA polymerase. Abdus Sattar AK, et al. **Biochemistry** 1996 Dec 24; 35(51):16621–9

Mechanism of bacteriophage T4 DNA holoenzyme assembly: the 44/62 protein acts as a molecular motor. Berdis AJ, et al. **Biochemistry** 1997 Mar 11;36(10):2733–43

Residues at the carboxy terminus of T4 DNA polymerase are important determinants for interaction with the polymerase accessory proteins. Goodrich LD, et al. **Biochemistry** 1997 Aug 26;36(34):10474–81

Conformation of T4 lysozyme in solution. Hinge-bending motion and the substrate-induced conformational transition studied by site-directed spin labeling. Mchaourab HS, et al. **Biochemistry** 1997 Jan 14;36(2):307–16

Structure-based statistical thermodynamic analysis of T4 lysozyme mutants: structural mapping of cooperative interactions. Hilser VJ, et al. **Biophys Chem** 1997 Feb 28; 64(1-3):69–79

Thermodynamic effects of mutations on the denaturation of T4 lysozyme. Carra JH, et al. **Biophys J** 1996 Oct; 71(4):1994–2001

Improved large-scale preparation of phage T4 endonuclease VII overexpressed in E. coli. Golz S, et al. **DNA Res** 1995 Dec 31;2(6):277–84

Bacteriophage T4 UvsW protein is a helicase involved in recombination, repair and the regulation of DNA replication origins. Carles-Kinch K, et al. **EMBO J** 1997 Jul 1;16(13):4142–51

Testing homology modeling on mutant proteins: predicting structural and thermodynamic effects in the Ala98-->Val mutants of T4 lysozyme. Lee C. **Fold Des** 1996;1(1):1–12

Expression of the bacteriophage T4 DNA terminase genes 16 and 17 yields multiple proteins. Franklin JL, et al. **Gene** 1996 Oct 24;177(1-2):179–89

Short-range and long-range context effects on coliphage T4 endonuclease II-dependent restriction. Carlson K, et al. **J Bacteriol** 1996 Nov;178(22):6419–26

Comparative studies of the phage T2 and T4 DNA (N6-adenine)methyltransferases: amino acid changes that affect catalytic activity. Kossykh VG, et al. **J Bacteriol** 1997 May;179(10):3239–43

Regulation of T4 phage aerobic ribonucleotide reductase. Simultaneous assay of the four activities. Hendricks SP, et al. **J Biol Chem** 1997 Jan 31;272(5):2861–5

Purification and characterization of the small subunit of phage T4 terminase, gp16, required for DNA packaging. Lin H, et al. **J Biol Chem** 1997 Feb 7;272(6):3495–501

Protein-protein interactions involving T4 phage-coded deoxycytidylate deaminase and thymidylate synthase. McGaughey KM, et al. **J Biol Chem** 1996 Sep 20; 271(38):23037–42

Inhibition of Holliday structure resolving endonuclease VII of bacteriophage T4 by recombination enzymes UvsX and UvsY. Birkenkamp-Demtröder K, et al. **J Mol Biol** 1997 Mar 21;267(1):150–62

Directed evolution studies with combinatorial libraries of T4 lysozyme mutants. Patten PA, et al. **Mol Divers** 1996 Feb; 1(2):97–108

Role of recombinational repair in sensitivity to an antitumour agent that inhibits bacteriophage T4 type II DNA topoisomerase. Neece SH, et al. **Mol Microbiol** 1996 Jun; 20(6):1145–54

Metal ion interaction with cosubstrate in self-splicing of group I introns. Sjögren AS, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):648–53

Enhancement of protein stability by the combination of point mutations in T4 lysozyme is additive. Zhang XJ, et al. **Protein Eng** 1995 Oct;8(10):1017–22

[SegE endonuclease from T4 phage. II. Determination and characteristics of recognition site] Kriukov VM, et al. **Mol Biol (Mosk)** 1996 Nov-Dec;30(6):1307–15 **(Rus)**

[Study of the equilibrium interaction of DAM-DNA-(N-adenine)-methyltransferase from phage T4 with substrates and ligands by fluorescence quenching] Tuzikov FV, et al. **Mol Biol (Mosk)** 1997 Jan-Feb; 31(1):86–90 **(Rus)**

[Stoichiometry of phage T4 Dam-DNA-[N6-adenine]-methyltransferase binding with oligonucleotide substrates] Zinov'ev VV, et al. **Mol Biol (Mosk)** 1996 Sep-Oct;30(5):1203–8 **(Rus)**

GENETICS

Chlorella virus PBCV-1 encodes a homolog of the bacteriophage T4 UV damage repair gene denV. Furuta M, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1551–6

Relief of amplification inhibition in PCR with bovine serum albumin or T4 gene 32 protein. Kreader CA. **Appl Environ Microbiol** 1996 Mar;62(3):1102–6

The gene 32 single-stranded DNA-binding protein is not bound stably to the phage T4 presynaptic filament. Jiang H, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):600–5

First-order phase transition in large single duplex DNA induced by a nonionic surfactant. Mel'nikov SM, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):514–7

Functional consequences and exonuclease kinetic parameters of point mutations in bacteriophage T4 DNA polymerase. Abdus Sattar AK, et al. **Biochemistry** 1996 Dec 24; 35(51):16621–9

Functional and sequence analysis of splicing defective nrdB mutants of bacteriophage T4 reveal new bases and a new sub-domain required for group I intron self-splicing. Lal SK, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):89–97

Dual targets of a transcriptional activator that tracks on DNA. Sanders GM, et al. **EMBO J** 1997 Jun 2; 16(11):3124–32

Testing homology modeling on mutant proteins: predicting structural and thermodynamic effects in the Ala98-->Val mutants of T4 lysozyme. Lee C. **Fold Des** 1996;1(1):1–12

A rare type of overlapping genes in bacteriophage T4: gene 30.3' is completely embedded within gene 30.3 by one position downstream. Zajanckauskaite A, et al. **Gene** 1997 Jul 31;194(2):157–62

Exon coconversion biases accompanying intron homing: battle of the nucleases. Mueller JE, et al. **Genes Dev** 1996 Sep 1;10(17):2158–66

Destabilization of bacteriophage T4 mRNAs by a mutation of gene 61.5. Kai T, et al. **Genetics** 1996 Sep;144(1):7–14

Bacteriophage T4 mutants hypersensitive to an antitumor agent that induces topoisomerase-DNA cleavage complexes. Woodworth DL, et al. **Genetics** 1996 Jul; 143(3):1081–90

Comparative studies of the phage T2 and T4 DNA (N6-adenine)methyltransferases: amino acid changes that affect catalytic activity. Kossykh VG, et al. **J Bacteriol** 1997 May;179(10):3239–43

Protein-protein and protein-DNA interactions at the bacteriophage T4 DNA replication fork. Characterization of a fluorescently labeled DNA polymerase sliding clamp. Sexton DJ, et al. **J Biol Chem** 1996 Nov 8;271(45):28045–51

RNA-DNA hybrid formation at a bacteriophage T4 replication origin. Carles-Kinch K, et al. **J Mol Biol** 1997 Mar 14;266(5):915–26

Fluorescence monitoring of T4 polymerase holoenzyme accessory protein interactions during loading of the sliding clamp onto the template-primer junction. Latham GJ, et al. **J Mol Biol** 1996 Dec 6;264(3):426–39

Novel mutants in the 5' upstream region of the portal protein gene 20 overcome a gp40-dependent prohead assembly block in bacteriophage T4. Yap NL, et al. **J Mol Biol** 1996 Nov 8;263(4):539–50

The kinetic mechanism of formation of the bacteriophage T4 DNA polymerase sliding clamp. Young MC, et al. **J Mol Biol** 1996 Dec 6;264(3):440–52

Bacteriophage T4 expression-packaging-processing vector that encapsidates HIV-type I GP120-V3 fusion protein inside the head. Hong YR, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jul; 12(7):381–7

Directed evolution studies with combinatorial libraries of T4 lysozyme mutants. Patten PA, et al. **Mol Divers** 1996 Feb; 1(2):97–108

pH dependence of self-splicing by the group IA2 intron in a pre-mRNA derived from the nrdB gene of bacteriophage T4. Sjögren AS, et al. **Nucleic Acids Res** 1997 Sep 1; 25(17):3543–9

A coupled complex of T4 DNA replication helicase (gp41)

and polymerase (gp43) can perform rapid and processive DNA strand-displacement synthesis. Dong F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14456-61

Enhancement of protein stability by the combination of point mutations in T4 lysozyme is additive. Zhang XJ, et al. **Protein Eng** 1995 Oct;8(10):1017-22

A novel mechanism of virus-virus interactions: bacteriophage P2 Tin protein inhibits phage T4 DNA synthesis by poisoning the T4 single-stranded DNA binding protein, gp32. Mosig G, et al. **Virology** 1997 Mar 31;230(1):72-81

A member of the immunoglobulin superfamily in bacteriophage T4. Bateman A, et al. **Virus Genes** 1997; 14(2):163-5

Evolution of T4-related phages. Kutter E, et al. **Virus Genes** 1995;11(2-3):285-97 (47 ref.)

[SegE endonuclease from phage T4. I. Cloning, expression, and biochemical characteristics of endonuclease activity] Kadyrov FA, et al. **Mol Biol (Mosk)** 1996 Sep-Oct; 30(5):1096-106 **(Rus)**

GROWTH & DEVELOPMENT

Bacteriophage T4 development depends on the physiology of its host Escherichia coli. Hadas H, et al. **Microbiology** 1997 Jan;143 (Pt 1):179-85

IMMUNOLOGY

Phage display of intact domains at high copy number: a system based on SOC, the small outer capsid protein of bacteriophage T4. Ren ZJ, et al. **Protein Sci** 1996 Sep; 5(9):1833-43

A member of the immunoglobulin superfamily in bacteriophage T4. Bateman A, et al. **Virus Genes** 1997; 14(2):163-5

ISOLATION & PURIFICATION

Intestinal colonization and organ invasion in chicks experimentally infected with Salmonella enteritidis phage type 4 and other phage types isolated from poultry in the United States. Gast RK, et al. **Avian Dis** 1996 Oct-Dec; 40(4):853-7

METABOLISM

Characterization of an amino-terminal fragment of the bacteriophage T4 uvsY recombination protein. Yassa DS, et al. **Biochimie** 1997 May;79(5):275-85

Repair of double-strand breaks in bacteriophage T4 by a mechanism that involves extensive DNA replication. George JW, et al. **Genetics** 1996 Aug;143(4):1507-20

An N-terminal mutation in the bacteriophage T4 motA gene yields a protein that binds DNA but is defective for activation of transcription. Gerber JS, et al. **J Bacteriol** 1996 Nov;178(21):6133-9

Single-stranded RNA recognition by the bacteriophage T4 translational repressor, regA. Brown D, et al. **J Biol Chem** 1997 Jun 6;272(23):14969-74

Single-stranded DNA binding properties of the uvsY recombination protein of bacteriophage T4. Sweezy MA, et al. **J Mol Biol** 1997 Mar 14;266(5):927-38

Bacteriophage T4 middle transcription system: T4-modified RNA polymerase; AsiA, a sigma 70 binding protein; and transcriptional activator MotA. Hinton DM, et al. **Methods Enzymol** 1996;274:43-57

The effects on Escherichia coli of expression of the cloned bacteriophage T4 nucleoid disruption (ndd) gene. Bouet JY, et al. **Mol Microbiol** 1996 May;20(3):519-28

[Fibrillary proteins from bacteriophage T4 as a model for studying folding] Mesianzhinov VV. **Mol Biol (Mosk)** 1997 May-Jun;31(3):389-97 (53 ref.) **(Rus)**

PHYSIOLOGY

First-order phase transition in large single duplex DNA induced by a nonionic surfactant. Mel'nikov SM, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):514-7

Characterization of the helper proteins for the assembly of tail fibers of coliphages T4 and lambda. Hashemolhosseini S, et al. **J Bacteriol** 1996 Nov;178(21):6258-65

Either bacteriophage T4 RNase H or Escherichia coli DNA polymerase I is essential for phage replication. Hobbs LJ, et al. **J Bacteriol** 1996 Dec;178(23):6772-7

Isolation of a gp20-complex and its role in in vitro assembly of both prohead and core of bacteriophage T4. Kato H, et al. **Virology** 1997 Jan 20;227(2):400-8

BACTERIOPHAGE T7

Nuclease activity of T7 RNA polymerase and the heterogeneity of transcription elongation complexes. Sastry SS, et al. **J Biol Chem** 1997 Mar 28;272(13):8644-52

DRUG EFFECTS

Benzo[a]pyrene-DNA adducts inhibit the DNA helicase activity of the bacteriophage T7 gene 4 protein. Yong Y, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):179-87

ENZYMOLOGY

Analysis of nucleotide insertion and extension at 8-oxo-7,8-dihydroguanine by replicative T7 polymerase exo- and human immunodeficiency virus-1 reverse transcriptase using steady-state and pre-steady-state kinetics. Furge LL, et al. **Biochemistry** 1997 May 27; 36(21):6475-87

Initiation, elongation, and processivity of carboxyl-terminal mutants of T7 RNA polymerase. Gardner LP, et al. **Biochemistry** 1997 Mar 11;36(10):2908-18

Kinetic mechanism of transcription initiation by bacteriophage T7 RNA polymerase. Jia Y, et al. **Biochemistry** 1997 Apr 8;36(14):4223-32

Inhibition of bacteriophage T7 RNA polymerase in vitro transcription by DNA-binding pyrrolo[2,1-c][1,4]benzodiazepines. Puvvada MS, et al. **Biochemistry** 1997 Mar 4;36(9):2478-84

A direct real-time spectroscopic investigation of the mechanism of open complex formation by T7 RNA polymerase. Sastry SS, et al. **Biochemistry** 1996 Dec 10; 35(49):15715-25

The lacZ mRNA can be stabilised by the T7 late mRNA leader in E coli. Lopez PJ, et al. **Biochimie** 1996; 78(6):408-15

Benzo[a]pyrene-DNA adducts inhibit the DNA helicase activity of the bacteriophage T7 gene 4 protein. Yong Y, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):179-87

Intrinsic termination of T7 RNA polymerase mediated by either RNA or DNA. Hartvig L, et al. **EMBO J** 1996 Sep 2;15(17):4767-74

Equilibrium and stopped-flow kinetic studies of interaction between T7 RNA polymerase and its promoters measured by protein and 2-aminopurine fluorescence changes. Jia Y, et al. **J Biol Chem** 1996 Nov 29;271(48):30451-8

Template recognition and ribonucleotide specificity of the DNA primase of bacteriophage T7. Kusakabe T, et al. **J Biol Chem** 1997 Feb 28;272(9):5943-51

The acidic carboxyl terminus of the bacteriophage T7 gene 4 helicase/primase interacts with T7 DNA polymerase. Notarnicola SM, et al. **J Biol Chem** 1997 Jul 18; 272(29):18425-33

Amino acid changes in a unique sequence of bacteriophage T7 DNA polymerase alter the processivity of nucleotide polymerization. Yang XM, et al. **J Biol Chem** 1997 Mar 7;272(10):6599-606

Incorrect base insertion and prematurely terminated transcripts during T7 RNA polymerase transcription elongation past benzo[a]pyrenediol epoxide-modified DNA. Choi DJ, et al. **J Mol Biol** 1996 Nov 29;264(2):213-9

The junction-resolving enzyme T7 endonuclease I: quaternary structure and interaction with DNA. Parkinson MJ, et al. **J Mol Biol** 1997 Jul 11;270(2):169-78

Positioning of the start site in the initiation of transcription by bacteriophage T7 RNA polymerase. Weston BF, et al. **J Mol Biol** 1997 Sep 12;272(1):21-30

Effect of DNA topology on Holliday junction resolution by Escherichia coli RuvC and bacteriophage T7 endonuclease I. Zerbib D, et al. **J Mol Biol** 1997 Aug 1;270(5):663-73

Mechanism of inhibition of bacteriophage T7 RNA polymerase by T7 lysozyme. Zhang X, et al. **J Mol Biol** 1997 May 30;269(1):10-27

T7 transcript length determination using enzymatic RNA sequencing. Siwkowski A. **Methods Mol Biol** 1997;74:91-7

The thioredoxin binding domain of bacteriophage T7 DNA polymerase confers processivity on Escherichia coli DNA polymerase I. Bedford E, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):479-84

The dTTPase mechanism of T7 DNA helicase resembles the binding change mechanism of the F1-ATPase. Hingorani MM, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):5012-7

Gene 4 helicase of bacteriophage T7 mediates strand transfer through pyrimidine dimers, mismatches, and nonhomologous regions. Kong D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2987-92

[Regularities in utilization of deoxyribonucleoside triphosphates by mutant forms of bacteriophage T7 RNA polymerase] Tunitskaia VL, et al. **Mol Biol (Mosk)** 1997 Mar-Apr;31(2):353-8 **(Rus)**

GENETICS

T7 vectors with modified T7lac promoter for expression of proteins in Escherichia coli. Peränen J, et al. **Anal Biochem** 1996 May 1;236(2):371-3

Does the epsilon sequence of phage T7 function as an initiator for the translation of CAT mRNA in Escherichia coli? Golshani A, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):253-6

The bacteriophage T7 binary system activates transient transgene expression in zebrafish (Danio rerio) embryos. Verri T, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):492-5

Increased stability of phage T7g10 mRNA is mediated by either a 5'- or a 3'-terminal stem-loop structure. Mertens N, et al. **Biol Chem** 1996 Dec;377(12):811-7

T7-promoter-based Escherichia coli expression system induced with bacteriophage M13HEP. Chen C, et al. **Chin J Biotechnol** 1996;12(4):207-13

Escherichia coli strain for thermoinducible T7 RNA polymerase-driven expression. Fedorova ND, et al. **Gene** 1996 Oct 24;177(1-2):267-8

An artificial regulatory circuit for stable expression of DNA-binding proteins in a T7 expression system. Paul BD, et al. **Gene** 1997 Apr 29;190(1):11-5

Development and characterization of a binary gene expression system based on bacteriophage T7 components in adenovirus vectors. Tomanin R, et al. **Gene** 1997 Jul 9;193(2):129-40

Transcription-independent DNA translocation of bacteriophage T7 DNA into Escherichia coli. García LR, et al. **J Bacteriol** 1996 Dec;178(23):6921-9

Toxicity and repair of psoralen adducts in bacteriophage T7. Mamet-Bratley MD, et al. **J Photochem Photobiol B** 1997 Mar;38(1):48-53

Virus-specific cytotoxic T-lymphocyte activity elicited by coimmunization with human immunodeficiency virus type 1 genes regulated by the bacteriophage T7 promoter and T7 RNA polymerase protein. Selby MJ, et al. **J Virol** 1997 Oct;71(10):7827-31

T7 transcript length determination using enzymatic RNA sequencing. Siwkowski A. **Methods Mol Biol** 1997;74:91-7

Parallel molecular evolution of deletions and nonsense mutations in bacteriophage T7 [letter] Cunningham CW, et al. **Mol Biol Evol** 1997 Jan;14(1):113-6

Double-strand breaks increase the incidence of genetic deletion associated with intermolecular recombination in bacteriophage T7. Yang Y, et al. **Mol Gen Genet** 1997 Jul; 255(3):277-84

Sequenase sequence profiles used for HLA-DPB1 sequencing-based typing. Rozemuller EH, et al. **Tissue Antigens** 1996 Jan;47(1):72-9

PCR-directed formation of viral hybrids in vitro. Khan SA, et al. **Virology** 1997 Jan 20;227(2):409-19

Defects in concatemer processing of bacteriophage T7 DNA deleted in the M-hairpin region. Kim JS, et al. **Virology** 1997 Sep 15;236(1):37-46

GROWTH & DEVELOPMENT

Characterization of a region of the IncHI2 plasmid R478 which protects Escherichia coli from toxic effects specified by components of the tellurite, phage, and colicin resistance cluster. Whelan KF, et al. **J Bacteriol** 1997 Jan;179(1):63-71

BACTERIOPHAGE TYPING

WHO study on subtyping Listeria monocytogenes: results of phage-typing. McLauchlin J, et al. **Int J Food Microbiol** 1996 Oct;32(3):289-99

Salmonella enteritidis: phage types and drug resistance among the strains isolated in India and Zimbabwe [letter] Sharma NC, et al. **Natl Med J India** 1996 Jul-Aug;9(4):199-200

Progression of Salmonella enteritidis phage type 4 strains in São Paulo State, Brazil. Irino K, et al. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):193-6

[Characterization of Salmonella ser. enteritidis phage type 34 isolated from food poisoning outbreaks in Tokyo by epidemiological makers] Kusunoki J, et al. **Kansenshogaku Zasshi** 1996 Jul;70(7):702-9 (Eng. Abstr.) **(Jpn)**

[Shiga toxin-producing(enterohemorrhagic) Escherichia coli: serovar, phagovar and biovar] Tamura K. **Nippon Rinsho** 1997 Mar;55(3):656-9 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Characterization of B-type bacteriophages adsorbed on Pseudomonas aeruginosa pili] Zhilenkov EL, et al. **Mikrobiologiia** 1996 Jul-Aug;65(4):540-5 (Eng. Abstr.) **(Rus)**

METHODS

Evaluation of seven experimental phages for inclusion in the international phage set for the epidemiological typing of Listeria monocytogenes. van der Mee-Marquet N, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3374-7

Isolation of Vibrio cholerae 0139 phages to develop a phage typing scheme. Chakrabarti AK, et al. **Indian J Med Res** 1997 Jun;105:254-7

Screening for Salmonella with a murine monoclonal antibody M105 detects both Felix O1 bacteriophage sensitive and resistant Salmonella strains. Tsang RS, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):23-32

[The phage sensitivity and lysogeny of cultures of Streptococcus pyogenes group A isolated in different streptococcal infections] Asoskova TK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct;(5):7-10 (Eng. Abstr.) **(Rus)**

[Phagovars of halophilic vibrios] Khaĭtovich AB, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar-Apr; (2):11-4 (Eng. Abstr.) **(Rus)**

BACTERIOPHAGES

see related

LYSOGENY

Application and evaluation of the phage resistance- and bacteriocin-encoding plasmid pMRC01 for the improvement of dairy starter cultures. Coakley M, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1434-40

The use of bacteriophage-based systems for the separation and concentration of Salmonella. Bennett AR, et al. **J Appl Microbiol** 1997 Aug;83(2):259-65

Selection of phage-displayed superantigen by binding to cell-surface MHC class II. Wung JL, et al. **J Immunol Methods** 1997 May 12;204(1):33-41

A phage display technique for a fast, sensitive, and systematic investigation of protein-protein interactions. Rossenu S, et al. **J Protein Chem** 1997 Jul;16(5):499-503

Application of linker-ligation-PCR for construction of phage display epitope libraries. Nagesha HS, et al.

BACTERIOPHAGES

J Virol Methods 1996 Jul;60(2):147–54

Sequence and structure specific antibodies from phage display libraries. Tanha J, et al. **Mol Immunol** 1997 Feb; 34(2):109–13

Searching for a molecular address in the brain [comment] Pasqualini R, et al. **Mol Psychiatry** 1996 Dec;1(6):421–2. Comment on: Mol Psychiatry 1996 Dec;1(6):423.

Tissue targeting with phage peptide libraries [news] [see comments] Pasqualini R, et al. **Mol Psychiatry** 1996 Dec; 1(6):423. Comment in: Mol Psychiatry 1996 Dec;1(6):421–2.

Bacteriophage therapy and prophylaxis: rediscovery and renewed assessment of potential. Barrow PA, et al. **Trends Microbiol** 1997 Jul;5(7):268–71 (21 ref.)

CHEMISTRY

Protease site-restricted selection of phage-displayed peptides on glutathione-sepharose. Cui T, et al. **Anal Biochem** 1997 Jan 1;244(1):186–7

Development of antiangiogenin peptide using a phage-displayed peptide library. Gho YS, et al. **Cancer Res** 1997 Sep 1;57(17):3733–40

Crystal structure of a pol alpha family replication DNA polymerase from bacteriophage RB69. Wang J, et al. **Cell** 1997 Jun 27;89(7):1087–99

Cloning and nucleotide sequence of the major capsid proteins of Lactobacillus bacteriophage phi gle. Kakikawa M, et al. **Gene** 1996 Oct 10;175(1–2):157–65

Crystal structure of the coat protein from the GA bacteriophage: model of the unassembled dimer. Ni CZ, et al. **Protein Sci** 1996 Dec;5(12):2485–93

Analyses of the stability and function of three surface mutants (R82C, K69H, and L32R) of the gene V protein from Ff phage by X-ray crystallography. Su S, et al. **Protein Sci** 1997 Apr;6(4):771–80

Shuffling of structural elements in filamentous bacteriophages. Kishchenko G, et al. **Proteins** 1997 Mar; 27(3):405–9

CLASSIFICATION

Hospital outbreak of Escherichia coli O157:H7 associated with a rare phage type--Ontario. Preston M, et al. **Can Commun Dis Rep** 1997 Mar 1;23(5):33–6; discussion 36–7 **(Eng, Fre)**

[Characterization of B-type bacteriophages adsorbed on Pseudomonas aeruginosa pili] Zhilenkov EL, et al. **Mikrobiologiia** 1996 Jul–Aug;65(4):540–5 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Construction of specific erythromycin resistance mutations in the temperate lactococcal bacteriophage TP901-1 and their use in studies of phage biology. Koch B, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2439–41

ENZYMOLOGY

Crystal structure of a pol alpha family replication DNA polymerase from bacteriophage RB69. Wang J, et al. **Cell** 1997 Jun 27;89(7):1087–99

Plasmid integration in a wide range of bacteria mediated by the integrase of Lactobacillus delbrueckii bacteriophage mv4. Auvray F, et al. **J Bacteriol** 1997 Mar;179(6):1837–45

A resolvase-like protein is required for the site-specific integration of the temperate lactococcal bacteriophage TP901-1. Christiansen B, et al. **J Bacteriol** 1996 Sep; 178(17):5164–73

Temperate Myxococcus xanthus phage Mx8 encodes a DNA adenine methylase, Mox. Magrini V, et al. **J Bacteriol** 1997 Jul;179(13):4254–63

Use of bacteriophage RNA polymerase in RNA synthesis. Gurevich VV. **Methods Enzymol** 1996;275:382–97

Purification and characterization of the integrase from the Haemophilus influenzae bacteriophage HP1; identification of a four-stranded intermediate and the order of strand exchange. Hakimi JM, et al. **Mol Microbiol** 1996 Jul; 21(1):147–58

Cloning and characterization of a cDNA encoding a bacteriophage-type RNA polymerase from the higher plant Chenopodium album. Weihe A, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2319–25

Rapid mutagenesis and purification of phage RNA polymerases. He B, et al. **Protein Expr Purif** 1997 Feb; 9(1):142–51

GENETICS

Phenotypic and genetic characterization of the bacteriophage abortive infection mechanism AbiK from Lactococcus lactis. Emond E, et al. **Appl Environ Microbiol** 1997 Apr; 63(4):1274–83

Identification of a recA homolog (recALP) on the conjugative lactococcal phage resistance plasmid pNP40: evidence of a role for chromosomally encoded recAL in abortive infection. Garvey P, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1244–51

Construction of specific erythromycin resistance mutations in the temperate lactococcal bacteriophage TP901-1 and their use in studies of phage biology. Koch B, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2439–41

Construction of luciferase reporter bacteriophage A511::luxAB for rapid and sensitive detection of viable Listeria cells. Loessner MJ, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1133–40

Evaluation of luciferase reporter bacteriophage A511::luxAB for detection of Listeria monocytogenes in contaminated foods. Loessner MJ, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2961–5

Evolutionary relationship between plasmids and phages: phasmid P4 as a model. Lagos R, et al. **Arch Biol Med Exp (Santiago)** 1987;20(3–4):325–32 (44 ref.)

The ori of filamentous phage phi Lf is located within the gene encoding the replication initiation protein. Lin NT, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):246–51

Selectively infective phages (SIP). Spada S, et al. **Biol Chem** 1997 Jun;378(6):445–56 (58 ref.)

The conformation of DNA packaged in bacteriophage G. Sun M, et al. **Biophys J** 1997 Feb;72(2 Pt 1):958–63

Specific detection of his-tagged proteins with recombinant anti-His tag scFv-phosphatase or scFv-phage fusions. Lindner P, et al. **Biotechniques** 1997 Jan;22(1):140–9

Cycle sequencing of filamentous phage DNA using a biotinylated primer and delta Taq DNA polymerase. Qiu J, et al. **Biotechniques** 1997 Jul;23(1):125–7

Preparation of single-stranded phagemid DNA without chromosomal DNA contamination. Tang W, et al. **Biotechniques** 1996 Jul;21(1):53–4

Overexpression, purification, and analysis of the c1 repressor protein of Pseudomonas aeruginosa bacteriophage D3. Farinha MA, et al. **Can J Microbiol** 1997 Mar;43(3):220–6

Human autoimmune anti-proteinase 3 scFv from a phage display library. Finnern R, et al. **Clin Exp Immunol** 1997 Feb;107(2):269–81

Selection of biologically active peptides by phage display of random peptide libraries. Cortese R, et al. **Curr Opin Biotechnol** 1996 Dec;7(6):616–21 (41 ref.)

Phage display of proteins. Dunn IS. **Curr Opin Biotechnol** 1996 Oct;7(5):547–53 (71 ref.)

Presence of bacteriophage Aa phi 23 correlates with the population genetic structure of Actinobacillus actinomycetemcomitans. Haubek D, et al. **Eur J Oral Sci** 1997 Feb;105(1):2–8

Biosynthetically lipid-modified human scFv fragments from phage display libraries as targeting molecules for immunoliposomes. de Kruif J, et al. **FEBS Lett** 1996 Dec 16;399(3):232–6

A novel plasmid-encoded phage abortive infection system from Lactococcus lactis biovar. diacetylactis [published erratum appears in FEMS Microbiol Lett 1997 Mar 15;148(2):273] Deng YM, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):149–54

Identification and sequence analysis of the region encoding the site-specific integration system from Leuconostoc oenos (OEnococcus oeni) temperate bacteriophage phi 10MC. Gindreau E, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):279–85

Integration of the DNA of a novel filamentous bacteriophage VSK from Vibrio cholerae 0139 into the host chromosomal DNA. Kar S, et al. **FEMS Microbiol Lett** 1996 Nov 15; 145(1):17–22

A selection system to study C5a-C5a-receptor interactions: phage display of a novel C5a anaphylatoxin, Fos-C5aAla27. Hennecke M, et al. **Gene** 1997 Jan 15; 184(2):263–72

Characterization of the genes encoding integrative and excisive functions of Lactobacillus phage φg1e: cloning, sequence analysis, and expression in Escherichia coli. Kakikawa M, et al. **Gene** 1997 Jan 31;185(1):119–25

Genome structure of the Lactobacillus temperate phage phi g1e: the whole genome sequence and the putative promoter/repressor system. Kodaira KI, et al. **Gene** 1997 Mar 10;187(1):45–53

A highly efficient and stable system for site-specific integration of genes and plasmids into the phage phiLC3 attachment site (attB) of the Lactococcus lactis chromosome. Lillehaug D, et al. **Gene** 1997 Mar 25; 188(1):129–36

The early gene region completes the nucleotide sequence of Lactobacillus delbrueckii subsp. lactis phage LL-H. Mikkonen M, et al. **Gene** 1996 Oct 10;175(1–2):49–57

Cloning, sequence analysis, and expression of the genes encoding lytic functions of Bacteriophage phi g1e. Oki M, et al. **Gene** 1996 Oct 17;176(1–2):215–23

An optimized method for cell-based phage display panning. Watters JM, et al. **Immunotechnology** 1997 Mar;3(1):21–9

Purification and characterization of VSH-1, a generalized transducing bacteriophage of Serpulina hyodysenteriae. Humphrey SB, et al. **J Bacteriol** 1997 Jan;179(2):323–9

Bacteriophage PSP3 and phiR73 activator proteins: analysis of promoter specificities. Julien B, et al. **J Bacteriol** 1996 Oct;178(19):5668–75

Gene organization and transcription of a late-expressed region of a Lactococcus lactis phage. Parreira R, et al. **J Bacteriol** 1996 Nov;178(21):6158–65

Cloning and characterization of bacteriophage-like DNA from Haemophilus somnus homologous to phages P2 and HP1. Pontarollo RA, et al. **J Bacteriol** 1997 Mar; 179(6):1872–9

Different restriction profiles of kappa prophage in Serratia marcescens K and HY. Steiger H, et al. **J Basic Microbiol** 1996;36(6):439–45

En bloc transduction of imipenem resistance with other resistance determinants from a clinical strain of Pseudomonas aeruginosa. Babálová M, et al. **J Chemother** 1996 Feb;8(1):43–6

High affinity antibodies against Lex and sialyl Lex from a phage display library. Dinh Q, et al. **J Immunol** 1996 Jul 15;157(2):732–8

Inhibition of human complement by a C3-binding peptide isolated from a phage-displayed random peptide library. Sahu A, et al. **J Immunol** 1996 Jul 15;157(2):884–91

Detection of PNA/DNA hybrid molecules by antibody Fab fragments isolated from a phage display library. Haahr Hansen MH, et al. **J Immunol Methods** 1997 Apr 25; 203(2):199–207

Methodology for selection of human antibodies to membrane proteins from a phage-display library. Sawyer C, et al. **J Immunol Methods** 1997 May 26;204(2):193–203

Characterization of the mycobacteriophage L5 attachment site, attP. Peña CE, et al. **J Mol Biol** 1997 Feb 14; 266(1):76–92

Selection for protease inhibitors using bacteriophage display. Markland W, et al. **Methods Enzymol** 1996;267:28–51

Affinity maturation of phage-displayed peptide ligands. Yu J, et al. **Methods Enzymol** 1996;267:3–27

Production of phage-display antibodies for epitope mapping. Walker J, et al. **Methods Mol Biol** 1996;66:391–405

Random fragment libraries displayed on filamentous phage. Wang LF, et al. **Methods Mol Biol** 1996;66:269–85

Characterization of bacteriophages from tox-containing, non-toxigenic isolates of Corynebacterium diphtheriae. Cianciotto NP, et al. **Microb Pathog** 1997 Jun;22(6):343–51

Isolation and characterization of a strong promoter element from the Streptomyces ghanaensis phage I19 using the gentamicin resistance gene (aacC1) of Tn 1696 as reporter. Labes G, et al. **Microbiology** 1997 May;143 (Pt 5):1503–12

Phage-display libraries of murine and human antibody Fab fragments. Engberg J, et al. **Mol Biotechnol** 1996 Dec; 6(3):287–310

Selection of proteins and peptides from libraries displayed on filamentous bacteriophage. McGregor D. **Mol Biotechnol** 1996 Oct;6(2):155–62 (54 ref.)

Streptomyces linear plasmids that contain a phage-like, centrally located, replication origin. Chang PC, et al. **Mol Microbiol** 1996 Dec;22(5):789–800

Molecular analysis of the cos region of the Lactobacillus casei bacteriophage A2. Gene product 3, gp3, specifically binds to its downstream cos region. Garcia P, et al. **Mol Microbiol** 1997 Feb;23(3):505–14

Characterization of Vibrio cholerae bacteriophage K139 and use of a novel mini-transposon to identify a phage-encoded virulence factor. Reidl J, et al. **Mol Microbiol** 1995 Nov; 18(4):685–701

Regulation, replication, and integration functions of the Vibrio cholerae CTXphi are encoded by region RS2. Waldor MK, et al. **Mol Microbiol** 1997 Jun;24(5):917–26

Selectively infective phage (SIP) technology: a novel method for in vivo selection of interacting protein-ligand pairs. Spada S, et al. **Nat Med** 1997 Jun;3(6):694–6

Expression cloning of cDNA by phage display selection. Light J, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4367–8

PLANET: a phage library analysis expert tool. Leplae R, et al. **Physiol Chem Phys Med NMR** 1995;27(4):331–8

Selection of phage-displayed peptides mimicking an extracellular epitope of human MDR1-P-glycoprotein. Poloni F, et al. **Physiol Chem Phys Med NMR** 1995; 27(4):271–80

The hydrophobic TraM protein of pKM101 is required for conjugal transfer and sensitivity to donor-specific bacteriophage. Cellini C, et al. **Plasmid** 1997;37(3):181–8

Transfection of Actinomyces spp. by genomic DNA of bacteriophages from human dental plaque. Yeung MK, et al. **Plasmid** 1997;37(2):141–53

Phage display of a catalytic antibody to optimize affinity for transition-state analog binding. Baca M, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10063–8

Minus-strand origin of filamentous phage versus transcriptional promoters in recognition of RNA polymerase. Higashitani A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2909–14

Stoichiometric packaging of the three genomic segments of double-stranded RNA bacteriophage phi6. Qiao X, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4074–9

An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries. Burioni R, et al. **Res Virol** 1997 Mar-Apr;148(2):161–4

Human monoclonal recombinant Fabs specific for HCV antigens obtained by repertoire cloning in phage display combinatorial vectors. Plaisant P, et al. **Res Virol** 1997 Mar-Apr;148(2):165–9

A highly conserved DNA replication module from Streptococcus thermophilus phages is similar in sequence and topology to a module from Lactococcus lactis phages. Desiere F, et al. **Virology** 1997 Aug 4;234(2):372–82

Reciprocal regulation of the early promoter region of bacteriophage HP1 by the Cox and C1 proteins. Esposito D, et al. **Virology** 1997 Aug 4;234(2):267–76

[How do bacteriophages recognize and package their own genome DNA?] Morita M, et al. **Tanpakushitsu Kakusan Koso** 1997 Mar;42(4):609–18 (32 ref.) **(Jpn)**

[Cloning and study of the expression of Pseudomonas aeruginosa cip1 gene by phage-transposon D3112 in a homologous host and in Escherichia coli] Bidenko EM, et al. **Genetika** 1996 Jul;32(7):914–21 (Eng. Abstr.) **(Rus)**

[Defective phages of bacilli: cell parasites or chromosomal components] Prozorov AA. **Genetika** 1996 Apr; 32(4):469–81 (67 ref.) (Eng. Abstr.) **(Rus)**

[Restriction analysis of DNA from phages isolated from type strains of Bacillus thuringiensis] Azizbekian KR, et al. **Mikrobiologiia** 1997 Mar–Apr;66(2):247–53 (Eng. Abstr.) **(Rus)**

[Biology of lysogenic strains of Streptococcus bovis and virulent mutants of their temperate phages] Tarakanov BV. **Mikrobiologiia** 1996 Sep–Oct;65(5):656–62 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Natural variability and diurnal fluctuations within the bacteriophage population of the rumen. Swain RA, et al. **Appl Environ Microbiol** 1996 Mar;62(3):994–7

A simple method for enumerating bacteriophages in soil. Yin X, et al. **Can J Microbiol** 1997 May;43(5):461–6

An improved plaque assay for poor plaque–producing temperate lactococcal bacteriophages. Lillehaug D. **J Appl Microbiol** 1997 Jul;83(1):85–90

Dramatic decay of phage transcripts in lactococcal cells carrying the abortive infection determinant AbiB. Parreira R, et al. **Mol Microbiol** 1996 Jan;19(2):221–30

IMMUNOLOGY

A new immunohistochemical methodology for the specific detection of MDR1–P–glycoprotein in human tissues based on phage–displayed peptides mimicking the MM4.17 epitope. Poloni F, et al. **Biol Chem** 1997 Jun;378(6):503–7

Identification of HCV core mimotopes: improved methods for the selection and use of disease–related phage–displayed peptides. Tafi R, et al. **Biol Chem** 1997 Jun;378(6):495–502

Antibodies against HIV–1 from phage display libraries: mapping of an immune response and progress towards antiviral immunotherapy. Parren PW, et al. **Chem Immunol** 1997;65:18–56 (163 ref.)

Preferential recognition of the very low–density lipoprotein receptor ligand binding site by antibodies from phage display libraries. Pfistermueiler DM, et al. **FEBS Lett** 1996 Oct 28;396(1):14–20

Efficient in vitro affinity maturation of phage antibodies using BIAcore guided selections. Schier R, et al. **Hum Antibodies Hybridomas** 1996;7(3):97–105

Selection of antibodies to cell surface determinants on mouse thymic epithelial cells using a phage display library. Palmer DB, et al. **Immunology** 1997 Jul;91(3):473–8

Phage antibodies with pan–species recognition of the oncofoetal angiogenesis marker fibronectin ED–B domain. Carnemolla B, et al. **Int J Cancer** 1996 Nov 4;68(3):397–405

Phage–displayed peptide targeting on the Puumala hantavirus neutralization site. Heiskanen T, et al. **J Virol** 1997 May; 71(5):3879–85

Identification of polyclonal serum specificities with phage–display libraries. Germaschewski V, et al. **J Virol Methods** 1996 Apr 26;58(1–2):21–32

Isolation of anti–mesothelin antibodies from a phage display library. Chowdhury PS, et al. **Mol Immunol** 1997 Jan; 34(1):9–20

Immunogenicity of filamentous phage displaying peptide mimotopes after oral administration. Delmastro P, et al. **Vaccine** 1997 Aug;15(11):1276–85

[Phage mimotopes of monoclonal antibodies against plasma membrane Ca2+–ATPase] Pestov NB, et al. **Bioorg Khim** 1996 Sep;22(9):664–70 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Distribution of Vibrio vulnificus phage in oyster tissues and other estuarine habitats. DePaola A, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2464–7

Coliphage and indigenous phage in Mamala Bay, Oahu, Hawaii. Paul JH, et al. **Appl Environ Microbiol** 1997 Jan; 63(1):133–8

Effects of sunlight on bacteriophage viability and structure. Wommack KE, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1336–41

Characterization of filamentous phages of Vibrio cholerae O139 and O1. Ehara M, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):293–301

Isolation of Vibrio cholerae 0139 phages to develop a phage typing scheme. Chakrabarti AK, et al. **Indian J Med Res** 1997 Jun;105:254–7

Phage specific for Vibrio cholerae O139 Bengal. Albert MJ, et al. **J Clin Microbiol** 1996 Jul;34(7):1843–5

Active surveillance for Vibrio cholerae O1 and vibriophages in sewage water as a potential tool to predict cholera outbreaks. Madico G, et al. **J Clin Microbiol** 1996 Dec; 34(12):2968–72

Characterization of Natronobacterium magadii phage phi Ch1, a unique archaeal phage containing DNA and RNA. Witte A, et al. **Mol Microbiol** 1997 Feb;23(3):603–16

METABOLISM

Single–stranded DNA binding protein from bacteriophage cf: characterization, gene localization and protein–ssDNA complex. Chen WP, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1–2):147–55

Cholera: nice bacteria and bad viruses. Levin BR, et al. **Curr Biol** 1996 Nov 1;6(11):1389–91 (23 ref.)

Phage display of proteins. Dunn IS. **Curr Opin Biotechnol** 1996 Oct;7(5):547–53 (71 ref.)

Filamentous phage displaying the extracellular domain of the hLH/CG receptor bind hCG specifically. Lobel LI, et al. **Endocrinology** 1997 Mar;138(3):1232–9

Filamentous phage assembly: variation on a protein export theme. Russel M, et al. **Gene** 1997 Jun 11;192(1):23–32 (62 ref.)

Assembly of a functional phage PRD1 receptor depends on 11 genes of the IncP plasmid mating pair formation complex. Grahn AM, et al. **J Bacteriol** 1997 Aug; 179(15):4733–40

Modeling ligand–gated receptor activity. FhuA–mediated ferrichrome efflux from lipid vesicles triggered by phage T5 [published erratum appears in J Biol Chem 1997 Mar 28;272(13):8836] Letellier L, et al. **J Biol Chem** 1997 Jan 17;272(3):1448–51

Inhibition of human complement by a C3–binding peptide isolated from a phage–displayed random peptide library. Sahu A, et al. **J Immunol** 1996 Jul 15;157(2):884–91

Selection of binders from phage displayed antibody libraries using the BIAcore biosensor. Malmborg AC, et al. **J Immunol Methods** 1996 Oct 30;198(1):51–7

In search of dark horses: affinity maturation of phage–displayed ligands. Smith GP, et al. **Mol Divers** 1996 Oct;2(1–2):2–4

Selectively infective phage (SIP) technology: a novel method for in vivo selection of interacting protein–ligand pairs. Spada S, et al. **Nat Med** 1997 Jun;3(6):694–6

Identification of novel mdm2 binding peptides by phage display. Böttger V, et al. **Oncogene** 1996 Nov 21; 13(10):2141–7

PATHOGENICITY

Selectively infective phages (SIP). Spada S, et al. **Biol Chem** 1997 Jun;378(6):445–56 (58 ref.)

Cloning and sequencing of the novel abortive infection gene abiH of Lactococcus lactis ssp. lactis biovar. diacetylactis S94. Prévots F, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):295–9

Characterization of Vibrio cholerae bacteriophage K139 and use of a novel mini–transposon to identify a phage–encoded virulence factor. Reidl J, et al. **Mol Microbiol** 1995 Nov; 18(4):685–701

A novel plasmid gene involved in bacteriophage PRD1 infection and conjugative host–range. Holčík M, et al. **Plasmid** 1996 May;35(3):204–10

[Phagolysates of cyanobacteria: their biocidal properties and use] Gol'din EB, et al. **Mikrobiol Z** 1996 Sep–Oct; 58(5):51–8 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Biotechnology of lactic acid bacteria with special reference to bacteriophage resistance. Daly C, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):99–110 (118 ref.)

Lytic systems in lactic acid bacteria and their bacteriophages. Gasson MJ. **Antonie Van Leeuwenhoek** 1996 Oct; 70(2–4):147–59 (63 ref.)

Subassembly generation via mechanical conformational switches. Saitou K, et al. **Artif Life** 1995 Summer; 2(4):377–416

In vitro attachment and invasion of chicken ovarian granulosa cells by Salmonella enteritidis phage type 8. Thiagarajan D, et al. **Infect Immun** 1996 Dec; 64(12):5015–21

Infection and removal of L–forms of Listeria monocytogenes with bred bacteriophage. Hibma AM, et al. **Int J Food Microbiol** 1997 Mar 3;34(3):197–207

Molecular characterization of a genomic region in a Lactococcus bacteriophage that is involved in its sensitivity to the phage defense mechanism AbiA. Dinsmore PK, et al. **J Bacteriol** 1997 May;179(9):2949–57

Lipopolysaccharide dependence of cyanophage sensitivity and aerobic nitrogen fixation in Anabaena sp. strain PCC 7120. Xu X, et al. **J Bacteriol** 1997 May;179(9):2884–91

The A protein of the filamentous bacteriophage Cf of Xanthomonas campestris pv. citri. Yang MK, et al. **J Bacteriol** 1997 May;179(9):2840–4

Characterization of Vibrio cholerae EIT or typing phage D10. Chakrabarti BK, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2881–4

Two beginnings for a single purpose: the dual–start holins in the regulation of phage lysis. Bläsi U, et al. **Mol Microbiol** 1996 Aug;21(4):675–82 (39 ref.)

A permeabilized cell system that assembles filamentous bacteriophage. Feng JN, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4068–73

[Effect of reproduction of the LPP–3 cyanophage on glutamate dehydrogenase and glutamine synthetase activity in the cyanobacterium Plectonema boryanum] Mendzhul MI, et al. **Ukr Biokhim Zh** 1995 Nov–Dec;67(6):33–7 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Effects of sunlight on bacteriophage viability and structure. Wommack KE, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1336–41

The effects of methylene blue and oxygen concentration on the photoinactivation of Q beta bacteriophage. Lee D, et al. **Photochem Photobiol** 1997 Jan;65(1):161–5

ULTRASTRUCTURE

Subassembly generation via mechanical conformational switches. Saitou K, et al. **Artif Life** 1995 Summer; 2(4):377–416

Advances in the study of marine viruses. Proctor LM. **Microsc Res Tech** 1997 Apr 15;37(2):136–61 (137 ref.)

[Morphology of micro–organism––development of my electron microscopical study] Hosaka Y. **Nippon Saikingaku Zasshi** 1996 Oct;51(4):1003–13 (15 ref.) **(Jpn)**

[Morphologic characterization and protein analysis of phages isolated from type strains of Bacillus thuringiensis] Azizbekian KR, et al. **Mikrobiologiia** 1997 Mar–Apr; 66(2):242–6 (Eng. Abstr.) **(Rus)**

BACTERIOPHAGES, RNA see **RNA PHAGES**

BACTERIOPHAGES T see **T–PHAGES**

BACTERIORHODOPSIN

see related
PURPLE MEMBRANE

[How does, bacteriorhodopsin convert light into energy?] Kandori H, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb; 42(2):101–9 (41 ref.) **(Jpn)**

ANALYSIS

Determination of the amount of native structural bacteriorhodopsin in purple membrane Langmuir–Blodgett films by a spectroscopic surface denaturation quantifying technique. Sugiyama Y, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):138–48

CHEMISTRY

The pseudo–atom approach to phase determination in protein electron crystallography––noncentrosymmetric projections. Dorset DL. **Acta Crystallogr A** 1997 Jul 1;53 (Pt 4):445–55

Direct methods in protein electron crystallography: the ab initio structure determination of two membrane protein structures in projection using maximum entropy and likelihood. Gilmore CJ, et al. **Acta Crystallogr A** 1996 Nov 1;52 (Pt 6):937–46

Molecular handling of photosynthetic proteins for molecular assembly construction. Miyake J, et al. **Adv Biophys** 1997; 34:109–26 (102 ref.)

Electrospray ionization mass spectrometry of genetically and chemically modified bacteriorhodopsins. Hufnagel P, et al. **Anal Biochem** 1996 Dec 1;243(1):46–54

Lipid–helix interactions in membrane receptors. Zloh M, et al. **Biochem Soc Trans** 1996 May;24(2):305S

Scanning calorimetry and Fourier–transform infrared studies into the thermal stability of cleaved bacteriorhodopsin systems. Azuaga AI, et al. **Biochemistry** 1996 Dec 17; 35(50):16328–35

Interaction of proton and chloride transfer pathways in recombinant bacteriorhodopsin with chloride transport activity: implications for the chloride translocation mechanism. Brown LS, et al. **Biochemistry** 1996 Dec 17; 35(50):16048–54

Hydration of the counterion of the Schiff base in the chloride–transporting mutant of bacteriorhodopsin: FTIR and FT–raman studies of the effects of anion binding when Asp85 is replaced with a neutral residue. Chon YS, et al. **Biochemistry** 1996 Nov 12;35(45):14244–50

Time–resolved titrations of ASP–85 in bacteriorhodopsin: the multicomponent kinetic mechanism. Friedman N, et al. **Biochemistry** 1997 Sep 23;36(38):11369–80

Interaction between Asp–85 and the proton–releasing group in bacteriorhodopsin. A study of an O–like photocycle intermediate. Gat Y, et al. **Biochemistry** 1997 Apr 8; 36(14):4135–48

Chromophore–anion interactions in halorhodopsin from Natronobacterium pharaonis probed by time–resolved resonance Raman spectroscopy. Gerscher S, et al. **Biochemistry** 1997 Sep 9;36(36):11012–20

Ultraviolet resonance Raman spectra of Trp–182 and Trp–189 in bacteriorhodopsin: novel information on the structure of Trp–182 and its steric interaction with retinal. Hashimoto S, et al. **Biochemistry** 1997 Sep 30; 36(39):11583–90

Trp86 –> Phe replacement in bacteriorhodopsin affects a water molecule near Asp85 and light adaptation. Hatanaka M, et al. **Biochemistry** 1997 May 6;36(18):5493–8

The predischarge chromophore in bacteriorhodopsin: a 15N solid–state NMR study of the L photointermediate. Hu JG, et al. **Biochemistry** 1997 Aug 5;36(31):9316–22

The last phase of the reprotonation switch in bacteriorhodopsin: the transition between the M–type and the N–type protein conformation depends on hydration. Kamikubo H, et al. **Biochemistry** 1997 Oct 7;36(40):12282–7

Time–resolved fourier transform infrared study of structural changes in the last steps of the photocycles of Glu–204 and Leu–93 mutants of bacteriorhodopsin. Kandori H, et al. **Biochemistry** 1997 Apr 29;36(17):5134–41

Proton uptake and release are rate–limiting steps in the photocycle of the bacteriorhodopsin mutant E204Q. Misra S, et al. **Biochemistry** 1997 Apr 22;36(16):4875–83

Investigation of the proton release channel of bacteriorhodopsin in different intermediates of the photo

cycle. A molecular dynamics study. Nagel J, et al. **Biochemistry** 1997 Mar 11;36(10):2875–83

Relationship of retinal configuration and internal proton transfer at the end of the bacteriorhodopsin photocycle. Richter HT, et al. **Biochemistry** 1996 Dec 3;35(48):15461–6

Threonine–89 participates in the active site of bacteriorhodopsin: evidence for a role in color regulation and Schiff base proton transfer. Russell TS, et al. **Biochemistry** 1997 Jun 17;36(24):7490–7

The photocycle of bacteriorhodopsin at high pH and ionic strength. I. Effects of pH and buffer on the absorption kinetics. Groma GI, et al. **Biochim Biophys Acta** 1997 Mar 28;1319(1):59–68

The photocycle of bacteriorhodopsin at high pH and ionic strength. II. Time–dependent anisotropy studied by partially saturating photoselection. Groma GI, et al. **Biochim Biophys Acta** 1997 Mar 28;1319(1):69–85

Reconstitution of bacteriorhodopsin from a mixture of a proteinase V8 fragment and two synthetic peptides. Ozawa S, et al. **Biochim Biophys Acta** 1997 Jan 14;1323(1):145–53

Evidence that aspartate–85 has a higher pK(a) in all–trans than in 13–cisbacteriorhodopsin. Balashov SP, et al. **Biophys J** 1996 Oct;71(4):1973–84

Secondary structures comparison of aquaporin–1 and bacteriorhodopsin: a Fourier transform infrared spectroscopy study of two–dimensional membrane crystals. Cabiaux V, et al. **Biophys J** 1997 Jul;73(1):406–17

Spectrally silent transitions in the bacteriorhodopsin photocycle. Chizhov I, et al. **Biophys J** 1996 Nov; 71(5):2329–45

Analysis of conformational changes in bacteriorhodopsin upon retinal removal. Cladera J, et al. **Biophys J** 1996 Jun; 70(6):2882–7

The residues Leu 93 and Asp 96 act independently in the bacteriorhodopsin photocycle: studies with the leu 93––>Ala, Asp 96––>Asn double mutant. Delaney JK, et al. **Biophys J** 1996 May;70(5):2366–72

Arginine–82 regulates the pKa of the group responsible for the light–driven proton release in bacteriorhodopsin [see comments] Govindjee R, et al. **Biophys J** 1996 Aug; 71(2):1011–23. Comment in: Biophys J 1996 Aug;71(2):541–3.

Reorientations in the bacteriorhodopsin photoscycle are pH dependent. Harms GS, et al. **Biophys J** 1996 May; 70(5):2352–7

Localization and orientation of functional water molecules in bacteriorhodopsin as revealed by polarized Fourier transform infrared spectroscopy. Hatanaka M, et al. **Biophys J** 1997 Aug;73(2):1001–6

Reversal of the surface charge asymmetry in purple membrane due to single amino acid substitutions. Hsu KC, et al. **Biophys J** 1996 May;70(5):2358–65

Photoproducts of bacteriorhodopsin mutants: a molecular dynamics study. Humphrey W, et al. **Biophys J** 1997 Mar; 72(3):1347–56

Restricted motion of photoexcited bacteriorhodopsin in purple membrane containing ethanol. Kikukawa T, et al. **Biophys J** 1997 Jul;73(1):357–66

Shuffling protons in bacteriorhodopsin: long–distance coupling between the pKas of two carboxylic groups [comment] Lanyi JK. **Biophys J** 1996 Aug;71(2):541–3. Comment on: Biophys J 1996 Aug;71(2):1011–23.

Directly probing rapid membrane protein dynamics with an atomic force microscope: a study of light–induced conformational alterations in bacteriorhodopsin. Lewis A, et al. **Biophys J** 1996 May;70(5):2380–4

Catalysis of the retinal subpicosecond photoisomerization process in acid purple bacteriorhodopsin and some bacteriorhodopsin mutants by chloride ions. Logunov SL, et al. **Biophys J** 1996 Sep;71(3):1545–53

Fluorescence quenching and electron spin resonance study of percolation in a two–phase lipid bilayer containing bacteriorhodopsin. Piknová B, et al. **Biophys J** 1997 Jun; 72(6):2660–8

Electrostatics and electrodynamics of bacteriorhodopsin. Porschke D. **Biophys J** 1996 Dec;71(6):3381–91

Perturbed interaction between residues 85 and 204 in Tyr–185––>Phe and Asp–85––>Glu bacteriorhodopsins. Richter HT, et al. **Biophys J** 1996 Dec;71(6):3392–8

Spin–labeling studies of the conformational changes in the vicinity of D36, D38, T46, and E161 of bacteriorhodopsin during the photocycle. Rink T, et al. **Biophys J** 1997 Aug; 73(2):983–93

Thermodynamic stability of water molecules in the bacteriorhodopsin proton channel: a molecular dynamics free energy perturbation study. Roux B, et al. **Biophys J** 1996 Aug;71(2):670–81

Electrostatic coupling between retinal isomerization and the ionization state of Glu–204: a general mechanism for proton release in bacteriorhodopsin. Sampogna RV, et al. **Biophys J** 1996 Sep;71(3):1165–71

Correlation between surfactant/micelle structure and the stability of bacteriorhodopsin in solution. Tan EH, et al. **Biophys J** 1996 May;70(5):2385–95

Nanosecond retinal structure changes in K–590 during the room–temperature bacteriorhodopsin photocycle: picosecond time–resolved coherent anti–stokes Raman spectroscopy. Weidlich O, et al. **Biophys J** 1997 May; 72(5):2329–41

Volume and enthalpy changes in the early steps of bacteriorhodopsin photocycle studied by time–resolved photoacoustics. Zhang D, et al. **Biophys J** 1996 Jul; 71(1):381–8

His166 is critical for active–site proton transfer and phototaxis signaling by sensory rhodopsin I. Zhang XN, et al. **Biophys J** 1997 Sep;73(3):1516–23

The stability of transmembrane helices: a molecular dynamics study on the isolated helices of bacteriorhodopsin. Iyer LK, et al. **Biopolymers** 1996 Mar;38(3):401–21

The tertiary structural changes in bacteriorhodopsin occur between M states: X–ray diffraction and Fourier transform infrared spectroscopy. Sass HJ, et al. **EMBO J** 1997 Apr 1;16(7):1484–91

Intermediates in the assembly of bacteriorhodopsin investigated by time–resolved absorption spectroscopy. Booth PJ, et al. **Eur J Biochem** 1997 Jun 15;246(3):674–80

Protonation changes during the photocycle of sensory rhodopsin II from Natronobacterium pharaonis. Engelhard M, et al. **FEBS Lett** 1996 Oct 21;395(2–3):195–8

Kinetic isotope effects reveal an ice–like and a liquid–phase–type intramolecular proton transfer in bacteriorhodopsin. le Coutre J, et al. **FEBS Lett** 1996 Dec 2;398(2–3):333–6

Similarity of bacteriorhodopsin structural changes triggered by chromophore removal and light–driven proton transport. Ludlam GJ, et al. **FEBS Lett** 1997 May 5; 407(3):285–8

Quantitative evaluation of the dynamics of proton transfer from photoactivated bacteriorhodopsin to the bulk. Nachliel E, et al. **FEBS Lett** 1996 Sep 16;393(2–3):221–5

Complicated character of the M decay pH dependence in the D96N mutant is due to the two pathways of the M conversion. Radionov AN, et al. **FEBS Lett** 1996 Dec 16; 399(3):251–4

Inhibition of the M1––>M2 (M(closed) –––> M(open)) transition in the D96N mutant photocycle and its relation to the corresponding transition in wild–type bacteriorhodopsin. Radionov AN, et al. **FEBS Lett** 1997 Jun 9;409(2):137–40

N–like intermediate in the photocycle of the acid purple form of bacteriorhodopsin. Tokaji Z, et al. **FEBS Lett** 1997 Mar 17;405(1):125–7

A monitoring system for energy transduction by bacteriorhodopsin liposomes. Hendler RW, et al. **J Biochem Biophys Methods** 1996 Nov 15;33(2):89–104

Intramembrane signaling mediated by hydrogen–bonding of water and carboxyl groups in bacteriorhodopsin and rhodopsin. Maeda A, et al. **J Biochem (Tokyo)** 1997 Mar; 121(3):399–406 (62 ref.)

Dual roles of DMPC and CHAPS in the refolding of bacterial opsins in vitro. Sugiyama Y, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1143–9

Intramembrane substitutions in helix D of bacteriorhodopsin disrupt the purple membrane. Krebs MP, et al. **J Mol Biol** 1997 Mar 21;267(1):172–83

Hydrophobic organization of alpha–helix membrane bundle in bacteriorhodopsin. Efremov RG, et al. **J Protein Chem** 1996 Jan;15(1):63–76

Surface of bacteriorhodopsin revealed by high–resolution electron crystallography. Kimura Y, et al. **Nature** 1997 Sep 11;389(6647):206–11

Charge movements in the 13–cis photocycles of the bacteriorhodopsin mutants R82K and R82Q. Misra S, et al. **Photochem Photobiol** 1997 Jun;65(6):1039–44

A local electrostatic change is the cause of the large–scale protein conformation shift in bacteriorhodopsin. Brown LS, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5040–4

Reducing the flexibility of retinal restores a wild–type–like photocycle in bacteriorhodopsin mutants defective in protein–retinal coupling. Delaney JK, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5028–33

Direct phase determination in protein electron crystallography: the pseudo–atom approximation. Dorset DL. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1791–4

Internal molecular motions of bacteriorhodopsin: hydration–induced flexibility studied by quasielastic incoherent neutron scattering using oriented purple membranes. Fitter J, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7600–5

The photoisomerization of retinal in bacteriorhodospin: experimental evidence for a three–state model. Hasson KC, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15124–9

Electric–field–induced Schiff–base deprotonation in D85N mutant bacteriorhodopsin. Kolodner P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11618–21

Protonation dynamics of the extracellular and cytoplasmic surface of bacteriorhodopsin in the purple membrane. Nachliel E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10747–52

Detection of a Yb3+ binding site in regenerated bacteriorhodopsin that is coordinated with the protein and phospholipid head groups. Roselli C, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14333–7

Microsecond atomic force sensing of protein conformational dynamics: implications for the primary light–induced events in bacteriorhodopsin. Rousso I, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7937–41

Constitutive signaling by the phototaxis receptor sensory rhodopsin II from disruption of its protonated Schiff base–Asp–73 interhelical salt bridge. Spudich EN, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4960–5

Electron diffraction studies of light–induced conformational changes in the Leu–93 –––> Ala bacteriorhodopsin mutant. Subramaniam S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1767–72

Amphipols: polymers that keep membrane proteins soluble in aqueous solutions. Tribet C, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15047–50

Recognition of transmembrane alpha–helical segments with environmental profiles. Efremov RG, et al. **Protein Eng** 1996 Mar;9(3):253–63

Three–dimensional model of sensory rhodopsin I reveals important restraints between the protein and the chromophore. Lin SL, et al. **Protein Eng** 1997 Mar; 10(3):197–206

Modeling of halorhodopsin and rhodopsin based on bacteriorhodopsin. Neumüller M, et al. **Proteins** 1996 Oct; 26(2):146–56

Feeling a protein's motion [news] Ehrenstein D. **Science** 1997 Aug 1;277(5326):637

Opening the door to more membrane protein structures [news; comment] Moffat AS. **Science** 1997 Sep 12; 277(5332):1607–8. Comment on: Science 1997 Sep 12;277(5332):1676–81.

X–ray structure of bacteriorhodopsin at 2.5 angstroms from microcrystals grown in lipidic cubic phases [see comments] Pebay–Peyroula E, et al. **Science** 1997 Sep 12; 277(5332):1676–81. Comment in: Science 1997 Sep 12;277(5332):1607–8.

Evidence of alpha–helix slidings during bacteriorhodopsin photocycle–energetics coupling. Goto K, et al. **Tohoku J Exp Med** 1997 May;182(1):15–33

GENETICS

Expression of bacteriorhodopsin in Sf9 and COS–1 cells. Heymann J, et al. **J Bioenerg Biomembr** 1997 Feb; 29(1):55–9

Characterization of acquired resistance in lesion–mimic transgenic potato expressing bacterio–opsin. Abad MS, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):635–45

Overexpression of bacterio–opsin in Escherichia coli as a water–soluble fusion to maltose binding protein: efficient regeneration of the fusion protein and selective cleavage with trypsin. Chen GQ, et al. **Protein Sci** 1996 Mar; 5(3):456–67

ISOLATION & PURIFICATION

Rapid high–yield purification and liposome reconstitution of polyhistidine–tagged sensory rhodopsin I. Krebs MP, et al. **Protein Expr Purif** 1995 Dec;6(6):780–8

METABOLISM

Glutamate–194 to cysteine mutation inhibits fast light–induced proton release in bacteriorhodopsin. Balashov SP, et al. **Biochemistry** 1997 Jul 22;36(29):8671–6

Evidence that bilayer bending rigidity affects membrane protein folding. Booth PJ, et al. **Biochemistry** 1997 Jan 7; 36(1):197–203

Interaction of proton and chloride transfer pathways in recombinant bacteriorhodopsin with chloride transport activity: implications for the chloride translocation mechanism. Brown LS, et al. **Biochemistry** 1996 Dec 17; 35(50):16048–54

Interaction between Asp–85 and the proton–releasing group in bacteriorhodopsin. A study of an O–like photocycle intermediate. Gat Y, et al. **Biochemistry** 1997 Apr 8; 36(14):4135–48

General concept for ion translocation by halobacterial retinal proteins: the isomerization/switch/transfer (IST) model. Haupts U, et al. **Biochemistry** 1997 Jan 7;36(1):2–7

The last phase of the reprotonation switch in bacteriorhodopsin: the transition between the M–type and the N–type protein conformation depends on hydration. Kamikubo H, et al. **Biochemistry** 1997 Oct 7;36(40):12282–7

Slow alpha helix formation during folding of a membrane protein. Riley ML, et al. **Biochemistry** 1997 Jan 7; 36(1):192–6

Reconstitution of bacteriorhodopsin from the apoprotein and retinal studied by Fourier–transform infrared spectroscopy. Rüdiger M, et al. **Biochemistry** 1997 Apr 22;36(16):4867–74

Evidence that aspartate–85 has a higher pK(a) in all–trans than in 13–cisbacteriorhodopsin. Balashov SP, et al. **Biophys J** 1996 Oct;71(4):1973–84

The residues Leu 93 and Asp 96 act independently in the bacteriorhodopsin photocycle: studies with the leu 93––>Ala, Asp 96––>Asn double mutant. Delaney JK, et al. **Biophys J** 1996 May;70(5):2366–72

Mutation of a surface residue, lysine–129, reverses the order of proton release and uptake in bacteriorhodopsin; guanidine hydrochloride restores it. Govindjee R, et al. **Biophys J** 1997 Feb;72(2 Pt 1):886–98

Arginine–82 regulates the pKa of the group responsible for the light–driven proton release in bacteriorhodopsin [see comments] Govindjee R, et al. **Biophys J** 1996 Aug; 71(2):1011–23. Comment in: Biophys J 1996 Aug;71(2):541–3.

Replacement effects of neutral amino acid residues of different molecular volumes in the retinal binding cavity of bacteriorhodopsin on the dynamics of its primary process. Logunov SL, et al. **Biophys J** 1996 Jun; 70(6):2875–81

Perturbed interaction between residues 85 and 204 in Tyr–185––>Phe and Asp–85––>Glu bacteriorhodopsins. Richter HT, et al. **Biophys J** 1996 Dec;71(6):3392–8

Spin–labeling studies of the conformational changes in the

vicinity of D36, D38, T46, and E161 of bacteriorhodopsin during the photocycle. Rink T, et al. **Biophys J** 1997 Aug; 73(2):983–93

Thermodynamic stability of water molecules in the bacteriorhodopsin proton channel: a molecular dynamics free energy perturbation study. Roux B, et al. **Biophys J** 1996 Aug;71(2):670–81

Influence of the intrinsic membrane protein bacteriorhodopsin on gel–phase domain topology in two–component phase–separated bilayers. Schram V, et al. **Biophys J** 1997 May;72(5):2217–25

Culture temperature affects the molecular motion of bacteriorhodopsin within the purple membrane. Kikukawa T, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):473–6

Specific arginine and threonine residues control anion binding and transport in the light–driven chloride pump halorhodopsin. Rüdiger M, et al. **EMBO J** 1997 Jul 1; 16(13):3813–21

Protonation changes during the photocycle of sensory rhodopsin II from Natronobacterium pharaonis. Engelhard M, et al. **FEBS Lett** 1996 Oct 21;395(2–3):195–8

Similarity of bacteriorhodopsin structural changes triggered by chromophore removal and light–driven proton transport. Ludlam GJ, et al. **FEBS Lett** 1997 May 5; 407(3):285–8

Quantitative evaluation of the dynamics of proton transfer from photoactivated bacteriorhodopsin to the bulk. Nachliel E, et al. **FEBS Lett** 1996 Sep 16;393(2–3):221–5

Deletion mapping of the sites on the HtrI transducer for sensory rhodopsin I interaction. Perazzona B, et al. **J Bacteriol** 1996 Nov;178(22):6475–8

Chloride and proton transport in bacteriorhodopsin mutant D85T: different modes of ion translocation in a retinal protein. Tittor J, et al. **J Mol Biol** 1997 Aug 22; 271(3):405–16

Synergetic mechanisms in energy and signal transduction: photo oscillating proton transport in bacteriorhodopsin. Tributsch H, et al. **J Theor Biol** 1996 Jan 7;178(1):17–28

Reducing the flexibility of retinal restores a wild–type–like photocycle in bacteriorhodopsin mutants defective in protein–retinal coupling. Delaney JK, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5028–33

Constitutive signaling by the phototaxis receptor sensory rhodopsin II from disruption of its protonated Schiff base–Asp–73 interhelical salt bridge. Spudich EN, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4960–5

PHYSIOLOGY

Molecular mechanism of photosignaling by archaeal sensory rhodopsins. Hoff WD, et al. **Annu Rev Biophys Biomol Struct** 1997;26:223–58 (174 ref.)

Cooperativity–induced optical anisotropy changes during the photocycle of bacteriorhodopsin. Tokaji Z, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):532–6

Optical and electrical characterization of bacteriorhodopsin films. Dyukova T, et al. **Biosystems** 1997;41(2):91–8

RADIATION EFFECTS

Volume and enthalpy changes in the early steps of bacteriorhodopsin photocycle studied by time–resolved photoacoustics. Zhang D, et al. **Biophys J** 1996 Jul; 71(1):381–8

Evidence of alpha–helix slidings during bacteriorhodopsin photocycle–energetics coupling. Goto K, et al. **Tohoku J Exp Med** 1997 May;182(1):15–33

BACTERIURIA

Management of complicated urinary tract infection in older patients. Yoshikawa TT, et al. **J Am Geriatr Soc** 1996 Oct; 44(10):1235–41 (70 ref.)

COMPLICATIONS

Bacteriuria in children attending a primary health care clinic: a prospective study of catheter stream urine samples. Jeena PM, et al. **Ann Trop Paediatr** 1996 Dec;16(4):293–8

Relapsing significant bacteriuria: effect on urinary tract infection in patients with spinal cord injury. Elden H, et al. **Arch Phys Med Rehabil** 1997 May;78(5):468–70

Clinical significance of staphylococcus aureus bacteriuria without concurrent bacteremia. Sheth S, et al. **Clin Infect Dis** 1997 Jun;24(6):1268–9

Urinary symptoms, sexual intercourse and significant bacteriuria in male patients attending STD clinics [see comments] David LM, et al. **Genitourin Med** 1996 Aug; 72(4):266–8. Comment in: Genitourin Med 1997 Apr;73(2):149.

Asymptomatic bacteriuria and vesicoureteral reflux in children. Linshaw M. **Kidney Int** 1996 Jul;50(1):312–29

The clinical course of untreated asymptomatic bacteriuria in diabetic patients—14–year follow–up. Semetkowska–Jurkiewicz E, et al. **Mater Med Pol** 1995 Jul–Sep;27(3):91–5

[Ten–year experience with the use of ofloxacin in the treatment of wound infection] Blatun LA, et al. **Antibiot Khimioter** 1996;41(9):73–6 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Detection of Chlamydia trachomatis in male and female urine specimens by using the amplified Chlamydia trachomatis test. Mouton JW, et al. **J Clin Microbiol** 1997 Jun; 35(6):1369–72

Clinical evaluation of a rapid diagnostic screen (URISCREEN) for bacteriuria in children. Palmer LS, et al. **J Urol** 1997 Feb;157(2):654–7

Symptomatic urinary tract infection in women in primary health care. Bacteriological, clinical and diagnostic aspects in relation to host response to infection [see comments] Jellheden B, et al. **Scand J Prim Health Care** 1996 Jun; 14(2):122–8. Comment in: Scand J Prim Health Care 1996 Dec;14(4):251.

Emphysematous cystitis. Biyani CS, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):309–10

[Is urine examination in urinary tract infection superfluous?] Steurer J. **Schweiz Rundsch Med Prax** 1997 May 28; 86(22):943–5 **(Ger)**

DRUG THERAPY

Treatment of urinary tract infections in Dutch hospitals. Stobberingh E, et al. **Infection** 1996 May–Jun;24(3):234–7

Significance and treatment of asymptomatic bacteriuria during pregnancy. Hall DR, et al. **Int J Gynaecol Obstet** 1997 May;57(2):179–80

[Prevalence of susceptibility to quinolones and other antibiotics in microorganisms isolated from community bacteriuria in Madrid in 1995. Study Group of Infections in Primary Care] Alós Cortés JI, et al. **Rev Clin Esp** 1997 Mar;197(3):167–71 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Bacteriuria in a cohort of predominantly HIV–1 seropositive female commercial sex workers in Nairobi, Kenya. Ojoo J, et al. **J Infect** 1996 Jul;33(1):33–7

The influence of PCP prophylaxis on bacteriuria incidence and resistance development to trimethoprim/sulfamethoxazole in HIV–infected patients. van Dooyeweert DA, et al. **Neth J Med** 1996 Dec; 49(6):225–7

The value of positive nitrites in screening asymptomatic bacteriuria amongst Malaysian school children. Zainal D, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):184–8

ETHNOLOGY

Bacteriuria in pregnancy: a comparison of Bangladeshi and Caucasian women. Versi E, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1997;8(1):8–12

ETIOLOGY

Mycoplasma in urine and blood following catheterisation of patients undergoing vascular surgery. Levi N, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):355–8

IMMUNOLOGY

Granulocyte function in women with diabetes and asymptomatic bacteriuria. Balasoiu D, et al. **Diabetes Care** 1997 Mar;20(3):392–5

METABOLISM

Interleukin (IL)–6 and IL–8 in children with febrile urinary tract infection and asymptomatic bacteriuria. Benson M, et al. **J Infect Dis** 1996 Nov;174(5):1080–4

MICROBIOLOGY

Assessment of urine collection technique for microbial culture. Prandoni D, et al. **Am J Infect Control** 1996 Jun; 24(3):219–21

Ex vivo antibacterial properties of rufloxacin compared with those of norfloxacin in a study with healthy volunteers. Aguilar L, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):17–21

Clinical spectrum of urinary tract infections due on nontyphoidal Salmonella species. Ramos JM, et al. **Clin Infect Dis** 1996 Aug;23(2):388–90

Asymptomatic bacteriuria among diabetics attending Kenyatta National Hospital. Kayima JK, et al. **East Afr Med J** 1996 Aug;73(8):524–6

Detection of Chlamydia trachomatis in urethral and urine samples from symptomatic and asymptomatic male patients by the polymerase chain reaction. Stary A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):465–71

Virulence factors and O groups of Escherichia coli isolates from patients with acute pyelonephritis, cystitis and asymptomatic bacteriuria. Blanco M, et al. **Eur J Epidemiol** 1996 Apr;12(2):191–8

Changing patterns of susceptibilities of blood, urinary and respiratory pathogens in Hong Kong. Ho P, et al. **J Hosp Infect** 1995 Dec;31(4):305–17

Preputial condition and urinary tract infections. Kim KK. **J Korean Med Sci** 1996 Aug;11(4):332–4

Heterogeneity within apparently pure cultures of Escherichia coli freshly isolated from significant bacteriuria. Freeman R, et al. **J Med Microbiol** 1996 Nov;45(5):349–52

Detection of Ureaplasma urealyticum in urine of patients with systemic lupus erythematosus and healthy individuals by culture and polymerase chain reaction. Runge M, et al. **J Med Microbiol** 1997 May;46(5):413–8

Incidence of bacterial colonization in the throat and in urines at paediatric age with evaluation of sensitivity to common antibiotics. Catania S, et al. **Riv Eur Sci Med Farmacol** 1996 Jul–Aug;18(4):169–72

Feasibility and yield of screening urine for Chlamydia trachomatis by polymerase chain reaction among high–risk male youth in field–based and other nonclinic settings. A new strategy for sexually transmitted disease control. Rietmeijer CA, et al. **Sex Transm Dis** 1997 Aug; 24(7):429–35

Urethral cultures in female patients with a spinal cord injury. Montgomerie JZ, et al. **Spinal Cord** 1997 May;35(5):282–5

Persistent bacteriuria caused by uropathogenic Escherichia coli. Yamamoto S, et al. **Urol Int** 1996;57(2):89–92

[Value of media containing chromogenic substrates for the identification and the listing of urinary bacteria] Martin C, et al. **Pathol Biol (Paris)** 1995 Nov;43(9):749–53 (Eng. Abstr.) **(Fre)**

[Puerperal infection of the urinary tract] Głąb S, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):257–60 (Eng. Abstr.) **(Pol)**

[Prevalence of susceptibility to quinolones and other antibiotics in microorganisms isolated from community bacteriuria in Madrid in 1995. Study Group of Infections in Primary Care] Alós Cortés JI, et al. **Rev Clin Esp** 1997 Mar;197(3):167–71 (Eng. Abstr.) **(Spa)**

NURSING

Asymptomatic bacteriuria in older adults: when is it necessary to screen and treat? Melillo KD. **Nurse Pract** 1995 Aug;20(8):50–4, 62, 65–6 (28 ref.)

PREVENTION & CONTROL

Comparison of 1 and 3 days' transurethral Foley catheterization after retropubic incontinence surgery. Schiøtz HA. **Int Urogynecol J Pelvic Floor Dysfunct** 1996; 7(2):98–101

THERAPY

Pitfalls in managing routine medical problems of patients with spinal cord injury. Frost F. **Cleve Clin J Med** 1997 Jul–Aug; 64(7):352–4

TRANSMISSION

Transmission of urinary bacterial strains between patients with indwelling catheters—nursing in the same room and in separate rooms compared. Fryklund B, et al. **J Hosp Infect** 1997 Jun;36(2):147–53

URINE

The effect of cranberry juice on the presence of bacteria and white blood cells in the urine of elderly women. What is the role of bacterial adhesion? Avorn J. **Adv Exp Med Biol** 1996;408:185–6

[General tests. B. Effects of bacteria in urinalysis and changes in cellular components] Itoh C, et al. **Rinsho Byori** 1996 Nov;Suppl 103:97–107 **(Jpn)**

BACTEROIDACEAE

Bacteraemia with Leptotrichia buccalis: report of a case and review of the literature. Vemelen K, et al. **Acta Clin Belg** 1996;51(4):265–70 (13 ref.)

Ecology, metabolism, and genetics of ruminal selenomonads. Ricke SC, et al. **Crit Rev Microbiol** 1996;22(1):27–56 (279 ref.)

CHEMISTRY

Structural studies of the extracellular polysaccharide from Butyrivibrio fibrisolvens strain CF3. Ferreira F, et al. **Carbohydr Res** 1997 Jun 20;301(3–4):193–203

Contrasting effects of lipopolysaccharides (endotoxins) from oral black–pigmented bacteria and Enterobacteriaceae on platelets, a major source of serotonin, and on histamine–forming enzyme in mice. Endo Y, et al. **J Infect Dis** 1997 Jun;175(6):1404–12

GENETICS

Expression of a Butyrivibrio fibrisolvens E14 gene (cinB) encoding an enzyme with cinnamoyl ester hydrolase activity is negatively regulated by the product of an adjacent gene (cinR). Dalrymple BP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1203–10

BACTEROIDACEAE INFECTIONS

Uvulitis caused by anaerobic bacteria. Brook I. **Pediatr Emerg Care** 1997 Jun;13(3):221

[Vertebral osteomyelitis by Prevotella melaninogenica, Candida albicans and Mycobacterium tuberculosis in a intravenous drug addict (letter)] Salavert M, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):117–9 **(Spa)**

COMPLICATIONS

Impaired vocal cord mobility in the setting of acute suppurative thyroiditis. Boyd CM, et al. **Head Neck** 1997 May;19(3):235–7

DIAGNOSIS

Serodiagnosis of Porphyromonas gingivalis infection by

immunoblot analysis with recombinant collagenase. Wittstock M, et al. **J Clin Microbiol** 1996 Oct;34(10):2411–3

Direct examination of subgingival plaque from a diseased periodontal site using confocal laser scanning microscopy (CLSM). Assmus B, et al. **New Microbiol** 1997 Apr; 20(2):155–9

ENZYMOLOGY

Effect of Porphyromonas gingivalis on epithelial cell MMP–9 type IV collagenase production. Fravalo P, et al. **Infect Immun** 1996 Dec;64(12):4940–5

EPIDEMIOLOGY

Age and prevalence of Porphyromonas gingivalis in children. McClellan DL, et al. **J Clin Microbiol** 1996 Aug; 34(8):2017–9

ETIOLOGY

[Bacteremia by Porphyromonas asaccharolytica (letter)] Melón O, et al. **Enferm Infecc Microbiol Clin** 1997 Feb; 15(2):121 **(Spa)**

IMMUNOLOGY

Host modulation of tissue destruction caused by periodontopathogens: effects on a mixed microbial infection composed of Porphyromonas gingivalis and Fusobacterium nucleatum. Ebersole JL, et al. **Microb Pathog** 1997 Jul; 23(1):23–32

MICROBIOLOGY

Bacteraemia with Leptotrichia buccalis: report of a case and review of the literature. Vemelen K, et al. **Acta Clin Belg** 1996;51(4):265–70 (13 ref.)

Experimental model for Porphyromonas gingivalis infection in animals. Eke PI, et al. **Afr J Med Med Sci** 1996 Mar; 25(1):31–9

Frequency of isolation of Porphyromonas species from infected dog and cat bite wounds in humans and their characterization by biochemical tests and arbitrarily primed–polymerase chain reaction fingerprinting. Citron DM, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S78–82

The hemagglutinin genes hagB and hagC of Porphyromonas gingivalis are transcribed in vivo as shown by use of a new expression vector. Lee SW, et al. **Infect Immun** 1996 Nov;64(11):4802–10

A role for fimbriae in Porphyromonas gingivalis invasion of oral epithelial cells. Njoroge T, et al. **Infect Immun** 1997 May;65(5):1980–4

Characterization of saccharolytic Bacteroides and Prevotella isolates from infected dog and cat bite wounds in humans. Alexander CJ, et al. **J Clin Microbiol** 1997 Feb;35(2):406–11

PCR–DNA probe assays for identification and detection of Prevotella intermedia sensu stricto and Prevotella nigrescens. Guillot E, et al. **J Clin Microbiol** 1997 Jul; 35(7):1876–82

[Location of Bacteroides gingivalis in periodontal tissues] Xu L, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):212–4 **(Chi)**

[Production and characterization of specific monoclonal antibody against Porphyromonas endodontalis] Xue Y, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Nov; 30(6):343–5, 384 (Eng. Abstr.) **(Chi)**

[The role of Porphyromonas gingivalis proteinases in periodontitis] Polanowska J, et al. **Postepy Hig Med Dosw** 1997;51(2):149–69 (68 ref.) (Eng. Abstr.) **(Pol)**

[Polymicrobial endocarditis in an intravenous drug addict with isolation of Eikenella corrodens (letter)] Saavedra J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep; 14(7):454–6 (10 ref.) **(Spa)**

PATHOLOGY

Host modulation of tissue destruction caused by periodontopathogens: effects on a mixed microbial infection composed of Porphyromonas gingivalis and Fusobacterium nucleatum. Ebersole JL, et al. **Microb Pathog** 1997 Jul; 23(1):23–32

TRANSMISSION

Concordance of Porphyromonas gingivalis colonization in families. Tuite–McDonnell M, et al. **J Clin Microbiol** 1997 Feb;35(2):455–61

Intra–familial transmission and distribution of Prevotella intermedia and Prevotella nigrescens. van Steenbergen TJ, et al. **J Periodontal Res** 1997 May;32(4):345–50

VETERINARY

Prevalence of Porphyromonas and Prevotella species in the dental plaque of dogs. Allaker RP, et al. **Vet Rec** 1997 Feb 8;140(6):147–8

BACTEROIDES

Characterization of Bacteroides forsythus isolates. Takemoto T, et al. **J Clin Microbiol** 1997 Jun;35(6):1378–81

CLASSIFICATION

Characterization of saccharolytic Bacteroides and Prevotella isolates from infected dog and cat bite wounds in humans. Alexander CJ, et al. **J Clin Microbiol** 1997 Feb;35(2):406–11

DRUG EFFECTS

Antibacterial activities of tosufloxacin against anaerobic bacteria and the electron micrograph of its bactericidal effects. Takahata M, et al. **Chemotherapy** 1997 May–Jun; 43(3):153–8

Changes in beta–lactam antibiotic susceptibility and beta–lactamase production of clinical isolates of Bacteroides and Prevotella species over a 9 year period [letter] Edwards R, et al. **J Antimicrob Chemother** 1996 Mar;37(3):636–8

Effects of metronidazole in patients with "refractory" periodontitis associated with Bacteroides forsythus. Winkel EG, et al. **J Clin Periodontol** 1997 Aug;24(8):573–9

In vitro susceptibilities of selected obligate anaerobic bacteria obtained from bovine and equine sources to ceftiofur. Samitz EM, et al. **J Vet Diagn Invest** 1996 Jan;8(1):121–3

ENZYMOLOGY

Purification and characterization of alpha–L–rhamnosidase from Bacteroides JY–6, a human intestinal bacterium. Jang IS, et al. **Biol Pharm Bull** 1996 Dec;19(12):1546–9

Purification and characterization of beta–glucosidase from Bacteroides JY–6, a human intestinal bacterium. Kim DH, et al. **Biol Pharm Bull** 1996 Sep;19(9):1121–5

Endoglucanase G from Fibrobacter succinogenes S85 belongs to a class of enzymes characterized by a basic C–terminal domain. Iyo AH, et al. **Can J Microbiol** 1996 Sep;42(9):934–43

Changes in beta–lactam antibiotic susceptibility and beta–lactamase production of clinical isolates of Bacteroides and Prevotella species over a 9 year period [letter] Edwards R, et al. **J Antimicrob Chemother** 1996 Mar;37(3):636–8

The NAD(P)H–utilizing glutamate dehydrogenase of Bacteroides thetaiotaomicron belongs to enzyme family I, and its activity is affected by trans–acting gene(s) positioned downstream of gdhA. Baggio L, et al. **J Bacteriol** 1996 Dec;178(24):7212–20

Contribution of a neopullulanase, a pullulanase, and an alpha–glucosidase to growth of Bacteroides thetaiotaomicron on starch. D'Elia JN, et al. **J Bacteriol** 1996 Dec;178(24):7173–9

Formation of a dipeptidyl arylamidase by Bacteroides splanchnicus NCTC 10825 with specificities towards glycylprolyl–x and valylalanine–x substrates. Macfarlane S, et al. **J Med Microbiol** 1997 Jul;46(7):547–55

Intestinal anaerobic bacteria hydrolyse sorivudine, producing the high blood concentration of 5–(E)–(2–bromovinyl)uracil that increases the level and toxicity of 5–fluorouracil. Nakayama H, et al. **Pharmacogenetics** 1997 Feb;7(1):35–43

GENETICS

The erythromycin resistance gene from the Bacteroides conjugal transposon Tcr Emr 7853 is nearly identical to ermG from Bacillus sphaericus. Cooper AJ, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):506–8

A novel family 9 endoglucanase gene (celD), whose product cleaves substrates mainly to glucose, and its adjacent upstream homolog (celE) from Fibrobacter succinogenes S85. Malburg LM Jr, et al. **Appl Environ Microbiol** 1996 Mar;62(3):898–906

Genome analysis of Bacteroides by pulsed–field gel electrophoresis: chromosome sizes and restriction patterns. Shaheduzzaman SM, et al. **DNA Res** 1997 Feb 28; 4(1):19–25

Effect of regulatory protein levels on utilization of starch by Bacteroides thetaiotaomicron. D'Elia JN, et al. **J Bacteriol** 1996 Dec;178(24):7180–6

Characterization of four outer membrane proteins that play a role in utilization of starch by Bacteroides thetaiotaomicron. Reeves AR, et al. **J Bacteriol** 1997 Feb; 179(3):643–9

Conjugal transfer of the 5–nitroimidazole resistance plasmid pIP417 from Bacteroides vulgatus BV–17: characterization and nucleotide sequence analysis of the mobilization region. Trinh S, et al. **J Bacteriol** 1996 Dec;178(23):6671–6

Detection by PCR of the nim genes encoding 5–nitroimidazole resistance in Bacteroides spp. Trinh S, et al. **J Clin Microbiol** 1996 Sep;34(9):2078–84

Analysis of sequences flanking the vap regions of Dichelobacter nodosus: evidence for multiple integration events, a killer system, and a new genetic element. Bloomfield GA, et al. **Microbiology** 1997 Feb;143 (Pt 2):553–62

Organization of ribosomal RNA genes from the footrot pathogen Dichelobacter nodosus. La Fontaine S, et al. **Microbiology** 1996 Apr;142 (Pt 4):889–99

bctA: a novel pBF4 gene necessary for conjugal transfer in Bacteroides spp. Morgan RM, et al. **Microbiology** 1997 Jul; 143 (Pt 7):2155–65

Nucleotide sequence determination and genetic analysis of the Bacteroides plasmid, pBI143. Smith CJ, et al. **Plasmid** 1995 Nov;34(3):211–22

GROWTH & DEVELOPMENT

Survival of the recombinant Bacteroides thetaiotaomicron strain BTX in in vitro rumen incubations. Cotta MA, et al. **J Appl Microbiol** 1997 Jun;82(6):743–50

Contribution of a neopullulanase, a pullulanase, and an alpha–glucosidase to growth of Bacteroides thetaiotaomicron on starch. D'Elia JN, et al. **J Bacteriol** 1996 Dec;178(24):7173–9

Mucosa–associated bacterial flora of the human colon. Poxton IR, et al. **J Med Microbiol** 1997 Jan;46(1):85–91

IMMUNOLOGY

Effect of adjuvants on antibody responses of sheep immunised with recombinant pili from Dichelobacter nodosus. Walduck AK, et al. **Aust Vet J** 1996 Dec;74(6):451–5

A comparison of IgG antibody reactive with Bacteroides forsythus and Porphyromonas gingivalis in adult and early–onset periodontitis. Califano JV, et al. **J Periodontol** 1997 Aug;68(8):734–8

[Use of cell–surface antigens of Bacteroides thetaiotaomicron in the passive hemagglutination test and in the inhibition of passive hemagglutination] Rokosz A, et al. **Med Dosw Mikrobiol** 1995;47(3–4):189–95 (Eng. Abstr.) **(Pol)**

ISOLATION & PURIFICATION

Deep neck infections. Marra S, et al. **Am J Otolaryngol** 1996 Sep–Oct;17(5):287–98 (15 ref.)

Identification of Bacteroides forsythus in subgingival dental plaque with the aid of a rapid PCR method. Meurman JH, et al. **J Dent Res** 1997 Jul;76(7):1376–80

Occurrence of Porphyromonas gingivalis, Bacteroides forsythus, and Treponema denticola in periodontally healthy and diseased subjects as determined by an ELISA technique. Di Murro C, et al. **J Periodontol** 1997 Jan; 68(1):18–23

A PCR–DNA probe assay specific for Bacteroides forsythus. Guillot E, et al. **Mol Cell Probes** 1996 Dec;10(6):413–21

Assessment of gelatin gel and elastase tests for detection of protease activity of Dichelobacter nodosus isolates from ovine footrot. Links IJ, et al. **Vet Microbiol** 1996 Aug; 51(3–4):305–18

Virulent foot rot in sheep [letter] Lewis CJ, et al. **Vet Rec** 1997 Jul 26;141(4):107–8

[Evaluation of non radioactive DNA probe (Affirm DP) for detecting periodontopathic bacteria] Yano K, et al. **Kokubyo Gakkai Zasshi** 1996 Sep;63(3):482–8 (Eng. Abstr.) **(Jpn)**

METABOLISM

Inactivation of tryptic activity by a human–derived strain of Bacteroides distasonis in the large intestines of gnotobiotic rats and mice. Ramare F, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1434–6

Utilization of individual cellodextrins by three predominant ruminal cellulolytic bacteria. Shi Y, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1084–8

Competition for cellulose among three predominant ruminal cellulolytic bacteria under substrate–excess and substrate–limited conditions. Shi Y, et al. **Appl Environ Microbiol** 1997 Feb;63(2):734–42

Competition for cellobiose among three predominant ruminal cellulolytic bacteria under substrate–excess and substrate–limited conditions. Shi Y, et al. **Appl Environ Microbiol** 1997 Feb;63(2):743–8

Simultaneous but differential metabolism of glucose and cellobiose in Fibrobacter succinogenes cells, studied by in vivo 13C–NMR. Matheron C, et al. **Can J Microbiol** 1996 Nov;42(11):1091–9

PATHOGENICITY

Comparison of erythromycin and oxytetracycline for the treatment of virulent footrot in grazing sheep. Rendell DK, et al. **Aust Vet J** 1997 May;75(5):354

A retrospective study of clinical and laboratory characteristics of ovine footrot. Liu D, et al. **Vet Microbiol** 1994 Dec;42(4):373–81

PHYSIOLOGY

The survival rate of Actinobacillus actinomycetemcomitans, Porphyromonas gingivalis, and Bacteroides forsythus following 4 randomized treatment modalities. Shiloah J, et al. **J Periodontol** 1997 Aug;68(8):720–8

A gene product related to Tral is required for the mobilization of Bacteroides mobilizable transposons and plasmids. Smith CJ, et al. **Mol Microbiol** 1996 May; 20(4):741–50

ULTRASTRUCTURE

Immunoblot and ultrastructural analysis of antigens extracted from Dichelobacter nodosus with potassium thiocyanate. Whittington R. **J Vet Diagn Invest** 1996 Jul;8(3):315–23

BACTEROIDES CORRODENS see **EIKENELLA CORRODENS**

BACTEROIDES FRAGILIS

Ciliary ultrastructure in experimental sinusitis. Toskala E, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:137–9

A successfully treated case of multiple liver abscesses accompanied by portal venous gas. Yoshida M, et al.

Am J Gastroenterol 1996 Nov;91(11):2423–5

In vivo efficacy of trovafloxacin (CP–99,217), a new quinolone, in experimental intra–abdominal abscesses caused by Bacteroides fragilis and Escherichia coli. Thadepalli H, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):583–6

A rat model of non–lethal bacterial infection. Wandall DA, et al. **APMIS** 1997 Mar;105(3):187–91

Meningitis due to enterotoxigenic Bacteroides fragilis. Aucher P, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct; 15(10):820–3

An infant with fever and convulsions. Bacteroides fragilis brain abscess and meningitis. Carapetis J, et al. **Eur J Pediatr** 1996 Jun;155(6):517–8

Animal models for intra–abdominal infection. Sayek I. **Hepatogastroenterology** 1997 Jul–Aug;44(16):923–6 (22 ref.)

A diabetic man with persistent joint pain and infection. Cadle R, et al. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):177, 182–4

Bacteroides fragilis toxin rapidly intoxicates human intestinal epithelial cells (HT29/C1) in vitro. Saidi RF, et al. **Infect Immun** 1996 Dec;64(12):5029–34

Lung microvessel injury from peritoneal abscesses and gram–negative bacteremia. Jones R, et al. **Microvasc Res** 1996 Jul;52(1):84–100

[Does heparin modify the course of chronic abscess–forming peritonitis in the animal model?] Woltmann A, et al. **Langenbecks Arch Chir** 1997;382(2):107–10 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Detection of enterotoxigenic Bacteroides fragilis and its toxin in stool samples from adults and children in Italy. Pantosti A, et al. **Clin Infect Dis** 1997 Jan;24(1):12–6

The effect of the bacterial product, succinic acid, on neutrophil bactericidal activity. Abdul–Majid KB, et al. **FEMS Immunol Med Microbiol** 1997 Feb;17(2):79–86

Molecular characterization of a heme–binding protein of Bacteroides fragilis BE1. Otto BR, et al. **Infect Immun** 1996 Oct;64(10):4345–50

Surface vesicles: a possible function in commensal relations of Bacteroides fragilis. Domingues RM, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):509–17

CLASSIFICATION

[Selected properties of Bacteroides fragilis enterotoxigenic strains] Rokosz A, et al. **Med Dosw Mikrobiol** 1995; 47(3–4):183–8 (Eng. Abstr.) **(Pol)**

DRUG EFFECTS

Metabolism of a 5–nitroimidazole in susceptible and resistant isogenic strains of Bacteroides fragilis. Carlier JP, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1495–9

Bactericidal activity of low–dose clindamycin administered at 8– and 12–hour intervals against Staphylococcus aureus, Streptococcus pneumoniae, and Bacteroides fragilis. Klepser ME, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):630–5

Comparison of the bactericidal activities of piperacillin–tazobactam, ticarcillin–clavulanate, and ampicillin–sulbactam against clinical isolates of Bacteroides fragilis, Enterococcus faecalis, Escherichia coli, and Pseudomonas aeruginosa. Klepser ME, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):435–9

Characterization of bactericidal activity of clindamycin against Bacteroides fragilis via kill curve methods. Klepser ME, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1941–4

Antibacterial activities of tosufloxacin against anaerobic bacteria and the electron micrograph of its bactericidal effects. Takahata M, et al. **Chemotherapy** 1997 May–Jun; 43(3):153–8

Characterization of indole–negative Bacteroides fragilis group species with use of polymerase chain reaction fingerprinting and resistance profiles. Claros MC, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S66–72

Clindamycin resistance in the Bacteroides fragilis group: association with hospital–acquired infections. Dalmau D, et al. **Clin Infect Dis** 1997 May;24(5):874–7

Analysis of trends in antimicrobial resistance patterns among clinical isolates of Bacteroides fragilis group species from 1990 to 1994. Snydman DR, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S54–65

A comparison of susceptibility results of the Bacteroides fragilis group and other anaerobes by traditional MIC results and statistical methods. Aldridge KE, et al. **J Antimicrob Chemother** 1997 Mar;39(3):319–24

Mechanisms responsible for reduced susceptibility to imipenem in Bacteroides fragilis. Edwards R, et al. **J Antimicrob Chemother** 1996 Dec;38(6):941–51

Comparative in–vitro activity of cefoperazone/sulbactam and 11 other agents against multidrug resistant Bacteroides fragilis group species. Goldstein EJ, et al. **J Antimicrob Chemother** 1996 Oct;38(4):733–7

In vitro susceptibilities of selected obligate anaerobic bacteria obtained from bovine and equine sources to ceftiofur. Samitz EM, et al. **J Vet Diagn Invest** 1996 Jan;8(1):121–3

[In vitro antibacterial activity of cefoperazone–sulbactam] Zhang Y, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct; 34(10):676–9 (Eng. Abstr.) **(Chi)**

[Nationwide survey of susceptibilities of clinical isolates to antibacterial agents in 1992] Tabe Y, et al. **Jpn J Antibiot** 1997 Feb;50(2):178–86 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Characterization of the metal–binding sites of the beta–lactamase from Bacteroides fragilis. Crowder MW, et al. **Biochemistry** 1996 Sep 17;35(37):12126–32

The effect of zinc ions on the activity of metallo–beta–lactamases of Bacteroides fragilis. Edwards R, et al. **J Med Microbiol** 1997 Sep;46(9):807–9

High–yield expression, purification, and characterization of active, soluble Bacteroides fragilis metallo–beta–lactamase, CcrA. Toney JH, et al. **Protein Expr Purif** 1997 Apr; 9(3):355–62

Crystal structure of the wide–spectrum binuclear zinc beta–lactamase from Bacteroides fragilis. Concha NO, et al. **Structure** 1996 Jul 15;4(7):823–36

GENETICS

Characterization of indole–negative Bacteroides fragilis group species with use of polymerase chain reaction fingerprinting and resistance profiles. Claros MC, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S66–72

Cloning and characterization of the gene for the metalloprotease enterotoxin of Bacteroides fragilis. Kling JJ, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):279–84

The Bacteroides mobilizable transposon Tn4555 integrates by a site–specific recombination mechanism similar to that of the gram–positive bacterial element Tn916. Tribble GD, et al. **J Bacteriol** 1997 Apr;179(8):2731–9

Identification and DNA sequence of the mobilization region of the 5–nitroimidazole resistance plasmid pIP421 from Bacteroides fragilis. Trinh S, et al. **J Bacteriol** 1997 Jun; 179(12):4071–4

IMMUNOLOGY

Monoclonal antibodies to the enterotoxin of Bacteroides fragilis: production, characterization, and immunodiagnostic application. Qadri F, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):608–10

ISOLATION & PURIFICATION

Enterotoxigenic Bacteroides fragilis isolated from nondiarrheic adults. Meisel–Mikołajczyk F, et al. **Acta Microbiol Pol** 1996;45(2):181–6

Detection of enterotoxigenic Bacteroides fragilis (ETBF), among strains isolated between 1976 and 1995 in Poland. Meisel–Mikołajczyk F, et al. **Acta Microbiol Pol** 1996; 45(2):187–92

Septic thrombophlebitis of the portal vein [letter] Joly V, et al. **Clin Infect Dis** 1996 Aug;23(2):417–8

Detection of toxin production by Bacteroides fragilis: assay development and screening of extraintestinal clinical isolates. Mundy LM, et al. **Clin Infect Dis** 1996 Aug; 23(2):269–76

Detection of enterotoxigenic Bacteroides fragilis and its toxin in stool samples from adults and children in Italy. Pantosti A, et al. **Clin Infect Dis** 1997 Jan;24(1):12–6

Peritonitis due to a ruptured splenic abscess. Pera M, et al. **Clin Infect Dis** 1996 Aug;23(2):399–400

Association of enterotoxigenic Bacteroides fragilis with childhood diarrhoea. Niyogi SK, et al. **Indian J Med Res** 1997 Apr;105:167–9

Bacteroides fragilis pyomyositis in a patient with multiple myeloma. Katagiri K, et al. **J Dermatol** 1996 Feb; 23(2):129–32

[Clinical analysis of anaerobic septicemia in 26 patients with extensive burn] Huang X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):752–3 (Eng. Abstr.) **(Chi)**

[First isolation of Bilophila wadsworthia in otitis externa] Schumacher U, et al. **HNO** 1997 Jul;45(7):567–9 (Eng. Abstr.) **(Ger)**

METABOLISM

Human intestinal epithelial cells swell and demonstrate actin rearrangement in response to the metalloprotease toxin of Bacteroides fragilis. Koshy SS, et al. **Infect Immun** 1996 Dec;64(12):5022–8

The Bacteroides fragilis toxin fragilysin disrupts the paracellular barrier of epithelial cells. Obiso RJ Jr, et al. **Infect Immun** 1997 Apr;65(4):1431–9

Oxidative stress response in an anaerobe, Bacteroides fragilis: a role for catalase in protection against hydrogen peroxide. Rocha ER, et al. **J Bacteriol** 1996 Dec;178(23):6895–903

PATHOGENICITY

Association of enterotoxigenic Bacteroides fragilis with bacteremia. Kato N, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S83–6

Bacteroides fragilis toxin exhibits polar activity on monolayers of human intestinal epithelial cells (T84 cells) in vitro. Chambers FG, et al. **Infect Immun** 1997 Sep; 65(9):3561–70

Cloning and characterization of the Bacteroides fragilis metalloprotease toxin gene. Franco AA, et al. **Infect Immun** 1997 Mar;65(3):1007–13

Hemophagocytic syndrome associated with Bacteroides fragilis infection in a patient with acute monoblastic leukemia. Bourquelot P, et al. **Leuk Lymphoma** 1996 Jun; 22(1–2):177–9

PHYSIOLOGY

Bacteroides fragilis toxin rearranges the actin cytoskeleton of HT29/C1 cells without direct proteolysis of actin or decrease in F–actin content. Saidi RF, et al. **Cell Motil Cytoskeleton** 1997;37(2):159–65

In vitro adhesiveness of Bacteroides fragilis group in relation to encapsulation. Beena VK, et al. **Indian J Med Res** 1997 Jun;105:258–61

ULTRASTRUCTURE

Crystal containing membrane bound intracellular inclusion bodies in the epithelium of experimentally infected sinus mucosa. Westrin KM. **Ultrastruct Pathol** 1996 Nov–Dec; 20(6):563–9

BACTEROIDES GINGIVALIS see **PORPHYROMONAS GINGIVALIS**

BACTEROIDES INFECTIONS

Bilateral anaerobic empyemas complicating infectious mononucleosis. Kopec SE, et al. **Chest** 1997 Sep; 112(3):833–5

Bacteroides fragilis toxin rapidly intoxicates human intestinal epithelial cells (HT29/C1) in vitro. Saidi RF, et al. **Infect Immun** 1996 Dec;64(12):5029–34

Tubo–ovarian abscess caused by multidrug resistant Bacteroides gracilis. Yu WL, et al. **J Formos Med Assoc** 1997 Jun;96(6):457–60

COMPLICATIONS

Septic thrombophlebitis of the portal vein [letter] Joly V, et al. **Clin Infect Dis** 1996 Aug;23(2):417–8

Cervical cellulitis with mediastinitis from an odontogenic infection complicated by diabetes mellitus: report of a case. Sugata T, et al. **J Oral Maxillofac Surg** 1997 Aug; 55(8):864–9 (14 ref.)

Hemophagocytic syndrome associated with Bacteroides fragilis infection in a patient with acute monoblastic leukemia. Bourquelot P, et al. **Leuk Lymphoma** 1996 Jun; 22(1–2):177–9

DIAGNOSIS

Meningitis due to enterotoxigenic Bacteroides fragilis. Aucher P, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct; 15(10):820–3

An infant with fever and convulsions. Bacteroides fragilis brain abscess and meningitis. Carapetis J, et al. **Eur J Pediatr** 1996 Jun;155(6):517–8

Bacteroides fragilis pyomyositis in a patient with multiple myeloma. Katagiri K, et al. **J Dermatol** 1996 Feb; 23(2):129–32

Management of a deep space infection of the neck in a patient with Glanzmann's thrombasthenia. Kirita T, et al. **J Oral Maxillofac Surg** 1997 Aug;55(8):882–5 (9 ref.)

Tropical pyomyositis: imaging findings and a review of the literature. Pretorius ES, et al. **Skeletal Radiol** 1996 Aug; 25(6):576–9 (15 ref.)

DRUG THERAPY

In vivo efficacy of trovafloxacin (CP–99,217), a new quinolone, in experimental intra–abdominal abscesses caused by Bacteroides fragilis and Escherichia coli. Thadepalli H, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):583–6

Clindamycin resistance in the Bacteroides fragilis group: association with hospital–acquired infections. Dalmau D, et al. **Clin Infect Dis** 1997 May;24(5):874–7

Effects of metronidazole in patients with "refractory" periodontitis associated with Bacteroides forsythus. Winkel EG, et al. **J Clin Periodontol** 1997 Aug;24(8):573–9

[Clinical analysis of anaerobic septicemia in 26 patients with extensive burn] Huang X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):752–3 (Eng. Abstr.) **(Chi)**

EPIDEMIOLOGY

Detection of enterotoxigenic Bacteroides fragilis and its toxin in stool samples from adults and children in Italy. Pantosti A, et al. **Clin Infect Dis** 1997 Jan;24(1):12–6

ETIOLOGY

Animal models for intra–abdominal infection. Sayek I. **Hepatogastroenterology** 1997 Jul–Aug;44(16):923–6 (22 ref.)

A diabetic man with persistent joint pain and infection. Cadle R, et al. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):177, 182–4

The small intestine as the origin of bacteremia in acute diffuse peritonitis. Peregudov SI, et al. **Nutr Hosp** 1996 Nov–Dec; 11(6):317–20 (8 ref.)

[Bacteremia caused by Enterococcus avium secondary to thrombosis of the lateral sinus and the internal jugular vein (letter)] Lozano F, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):458 **(Spa)**

METABOLISM

Altered expression of eukaryotic initiation factor 2B in

skeletal muscle during sepsis. Voisin L, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E43–50

MICROBIOLOGY

Association of enterotoxigenic Bacteroides fragilis with bacteremia. Kato N, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S83–6

Detection of toxin production by Bacteroides fragilis: assay development and screening of extraintestinal clinical isolates. Mundy LM, et al. **Clin Infect Dis** 1996 Aug; 23(2):269–76

Detection of enterotoxigenic Bacteroides fragilis and its toxin in stool samples from adults and children in Italy. Pantosti A, et al. **Clin Infect Dis** 1997 Jan;24(1):12–6

Peritonitis due to a ruptured splenic abscess. Pera M, et al. **Clin Infect Dis** 1996 Aug;23(2):399–400

Association of enterotoxigenic Bacteroides fragilis with childhood diarrhoea. Niyogi SK, et al. **Indian J Med Res** 1997 Apr;105:167–9

Characterization of saccharolytic Bacteroides and Prevotella isolates from infected dog and cat bite wounds in humans. Alexander CJ, et al. **J Clin Microbiol** 1997 Feb;35(2):406–11

Characterization of Bacteroides forsythus isolates. Takemoto T, et al. **J Clin Microbiol** 1997 Jun;35(6):1378–81

[First isolation of Bilophila wadsworthia in otitis externa] Schumacher U, et al. **HNO** 1997 Jul;45(7):567–9 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Ciliary ultrastructure in experimental sinusitis. Toskala E, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:137–9

Lung microvessel injury from peritoneal abscesses and gram-negative bacteremia. Jones R, et al. **Microvasc Res** 1996 Jul;52(1):84–100

Crystal containing membrane bound intracellular inclusion bodies in the epithelium of experimentally infected sinus mucosa. Westrin KM. **Ultrastruct Pathol** 1996 Nov–Dec; 20(6):563–9

[Does heparin modify the course of chronic abscess-forming peritonitis in the animal model?] Woltmann A, et al. **Langenbecks Arch Chir** 1997;382(2):107–10 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

A rat model of non-lethal bacterial infection. Wandall DA, et al. **APMIS** 1997 Mar;105(3):187–91

THERAPY

A successfully treated case of multiple liver abscesses accompanied by portal venous gas. Yoshida M, et al. **Am J Gastroenterol** 1996 Nov;91(11):2423–5

VETERINARY

Comparison of erythromycin and oxytetracycline for the treatment of virulent footrot in grazing sheep. Rendell DK, et al. **Aust Vet J** 1997 May;75(5):354

Effect of adjuvants on antibody responses of sheep immunised with recombinant pili from Dichelobacter nodosus. Walduck AK, et al. **Aust Vet J** 1996 Dec;74(6):451–5

BACTEROIDES INTERMEDIUS see **PREVOTELLA INTERMEDIA**

BACTEROIDES MELANINOGENICUS see **PREVOTELLA MELANINOGENICA**

BACULOVIRIDAE

High-yield production of functionally active human serum transferrin using a baculovirus expression system, and its structural characterization. Ali SA, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):191–5

Overexpression of delta-opioid receptors in recombinant baculovirus-infected Trichoplusia ni "High 5" insect cells. Wehmeyer A, et al. **J Neurochem** 1997 Apr;68(4):1361–71

Production of heterologous proteins using the baculovirus/insect expression system. Griffiths CM, et al. **Methods Mol Biol** 1997;75:427–40 (18 ref.)

Use of baculoviruses as biological insecticides. Cory JS, et al. **Mol Biotechnol** 1997 Jun;7(3):303–13

Expression of rat thrombin receptor and mutants in the baculovirus-infected insect cell system. Henrikson KP, et al. **Thromb Res** 1997 Jul 15;87(2):205–14

The bovine parainfluenza virus type-3 (BPIV-3) hemagglutinin/neuraminidase glycoprotein expressed in baculovirus protects calves against experimental BPIV-3 challenge. Haanes EJ, et al. **Vaccine** 1997 Apr–May; 15(6–7):730–8

Overexpression of actin in AcMNPV-infected cells interferes with polyhedrin synthesis and polyhedra formation. Volkman L, et al. **Virology** 1996 Nov 15;225(2):369–76

[Ethyl 4-methyloctanoate, major component of male pherome in Oryctes rhinoceros (L.) (Coleoptera, Dynastidae)] Morin JP, et al. **C R Acad Sci III** 1996 Jul; 319(7):595–602 (Eng. Abstr.) **(Fre)**

CHEMISTRY

Identification and sequence analysis of the integration site of transposon TCp3.2 in the genome of Cydia pomonella granulovirus. Jehle JA, et al. **Virus Res** 1997 Aug; 50(2):151–7

ENZYMOLOGY

Enhancin, the granulosis virus protein that facilitates nucleopolyhedrovirus (NPV) infections, is a metalloprotease. Lepore LS, et al. **J Invertebr Pathol** 1996 Sep;68(2):131–40

GENETICS

Baculovirus-mediated high level expression of a human thiopurine methyl transferase. Jackson H, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):357–64

Very high single channel water permeability of aquaporin-4 in baculovirus-infected insect cells and liposomes reconstituted with purified aquaporin-4. Yang B, et al. **Biochemistry** 1997 Jun 17;36(24):7625–32

Identification of endonuclease activity in HIV-1 gp120 preparations produced using baculovirus expression systems. Davidoff AN, et al. **Biotechniques** 1997 Aug; 23(2):296–9

Expression of foreign proteins on the surface of Autographa californica nuclear polyhedrosis virus. Grabherr R, et al. **Biotechniques** 1997 Apr;22(4):730–5

Generation of recombinant baculoviruses by direct cloning. Lu A, et al. **Biotechniques** 1996 Jul;21(1):63–8

Identification of recombinant baculoviruses using green fluorescent protein as a selectable marker. Wilson LE, et al. **Biotechniques** 1997 Apr;22(4):674–6, 678–81

An indirect double-antibody sandwich enzyme-linked immunosorbent assay (ELISA) using baculovirus-expressed antigen for the detection of antibodies to glycoprotein E of pseudorabies virus and comparison of the method with blocking ELISAs. Kimman TG, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):167–74

Screening of SLE sera using purified recombinant Sm-D1 protein from a baculovirus expression system. Ou Y, et al. **Clin Immunol Immunopathol** 1997 Jun;83(3):310–7

Baculovirus-mediated expression of chicken growth hormone. Foster DN, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):233–9

The ecology and biosafety of baculoviruses. Cory JS, et al. **Curr Opin Biotechnol** 1997 Jun;8(3):323–7 (38 ref.)

Baculovirus vectors for expression in insect cells. Jones I, et al. **Curr Opin Biotechnol** 1996 Oct;7(5):512–6 (29 ref.)

Prospects for altering host range for baculovirus bioinsecticides. Thiem SM. **Curr Opin Biotechnol** 1997 Jun; 8(3):317–22 (58 ref.)

Coexpression of cytochrome P4502A6 and human NADPH-P450 oxidoreductase in the baculovirus system. Chen L, et al. **Drug Metab Dispos** 1997 Apr;25(4):399–405

Baculovirus-mediated expression and purification of human FMO3: catalytic, immunochemical, and structural characterization. Haining RL, et al. **Drug Metab Dispos** 1997 Jul;25(7):790–7

Baculovirus-directed expression of rabbit UDP-glucuronosyltransferases in Spodoptera frugiperda cells. Nguyen N, et al. **Drug Metab Dispos** 1997 Jun; 25(6):745–9

Functional expression of human cone pigments using recombinant baculovirus: compatibility with histidine tagging and evidence for N-glycosylation. Vissers PM, et al. **FEBS Lett** 1996 Oct 28;396(1):26–30

Purification and characterization of secreted human leptin produced in baculovirus-infected insect cells. Churgay LM, et al. **Gene** 1997 Apr 29;190(1):131–7

Production of a urokinase plasminogen activator-IgG fusion protein (uPA-IgG) in the baculovirus expression system. Kost TA, et al. **Gene** 1997 Apr 29;190(1):139–44

Development of a functional assay for Ca2+ release activity of IP3R and expression of an IP3R gene fragment in the baculovirus-insect cell system. Raghu P, et al. **Gene** 1997 Apr 29;190(1):151–6

Baculovirus multigene expression vectors and their use for understanding the assembly process of architecturally complex virus particles. Roy P, et al. **Gene** 1997 Apr 29; 190(1):119–29

Novel green fluorescent protein (GFP) baculovirus expression vectors. Wu C, et al. **Gene** 1997 Apr 29; 190(1):157–62

Isolation of highly purified, functional carboxy-terminally truncated hepatitis B virus middle surface protein activators from eucaryotic expression systems. Hildt E, et al. **Hepatology** 1996 Sep;24(3):502–7

Obtaining a functional recombinant anti-rhesus (D) antibody using the baculovirus-insect cell expression system. Edelman L, et al. **Immunology** 1997 May;91(1):13–9

Reconstitution of a pentameric complex of dimeric transforming growth factor beta ligand and a type I, II, III receptor in baculoviral-infected insect cells. Matsuzaki K, et al. **In Vitro Cell Dev Biol Anim** 1996 Jun;32(6):345–60

Substrate specificity and inhibitor profile of human recombinant p56lck from a baculovirus expression vector. Flotow H, et al. **Inflamm Res** 1996 Aug;45(8):412–5

Purification and analysis of a polydnavirus gene product expressed using a poly-histidine baculovirus vector. Soldevila AI, et al. **Insect Biochem Mol Biol** 1997 Mar; 27(3):201–11

Molecular cloning and expression of cynomolgus monkey interleukin-2 cDNA by the recombinant baculovirus system. Yabe M, et al. **Int Arch Allergy Immunol** 1997 Aug; 113(4):417–23

Expression of Bombyx family fungal protease inhibitor F from Bombyx mori by baculovirus vector. Pham TN, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1080–5

The baculovirus/insect cell system as an alternative to Xenopus oocytes. First characterization of the AKT1 K+ channel from Arabidopsis thaliana. Gaymard F, et al. **J Biol Chem** 1996 Sep 13;271(37):22863–70

Comprehensive physical map of the Cydia pomonella granulovirus genome and sequence analysis of the granulin gene region. Crook NE, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):965–74

Baculovirus cDNA libraries for expression cloning of genes encoding cell-surface antigens. Granziero L, et al. **J Immunol Methods** 1997 Apr 25;203(2):131–9

Insect cells infected with a recombinant baculovirus express both O- and N-glycosylated forms of the rat glycoprotein hormone alpha-subunit. Delahaye R, et al. **J Mol Endocrinol** 1996 Apr;16(2):141–9

Marek's disease virus serotype 2 glycoprotein I gene: nucleotide sequence and expression by a recombinant baculovirus. Jang HK, et al. **J Vet Med Sci** 1996 Nov; 58(11):1057–66

Immunological reactivity of baculovirus-expressed enterovirus proteins. Dahllund L, et al. **J Virol Methods** 1997 Sep;67(2):209–20

A simple and efficient method for purification of prawn baculovirus DNA. Yang F, et al. **J Virol Methods** 1997 Aug;67(1):1–4

Expression of functional intrinsic factor using recombinant baculovirus. Gordon MM, et al. **Methods Enzymol** 1997; 281:255–61

Use of baculovirus expression vectors. O'Reilly DR. **Methods Mol Biol** 1997;62:235–46

Transfection techniques for producing recombinant baculoviruses. Trotter KM, et al. **Mol Biotechnol** 1996 Dec; 6(3):329–34

Expression, purification and characterization of recombinant C. Elegans UNC-18. Ogawa H, et al. **Neurochem Int** 1996 Nov;29(5):553–63

A new, rapid and simple procedure for direct cloning of PCR products into baculoviruses. Gritsun TS, et al. **Nucleic Acids Res** 1997 May 1;25(9):1864–5

A bacterial signal peptide directs efficient secretion of eukaryotic proteins in the baculovirus expression system. Allet B, et al. **Protein Expr Purif** 1997 Feb;9(1):61–8

Immediate-early baculovirus vectors for foreign gene expression in transformed or infected insect cells. Jarvis DL, et al. **Protein Expr Purif** 1996 Sep;8(2):191–203

Characterization of human lactoferrin produced in the baculovirus expression system. Salmon V, et al. **Protein Expr Purif** 1997 Mar;9(2):203–10

Effect of subunit composition on GABAA receptor complex characteristics in a baculovirus expression system. Hartnett C, et al. **Receptors Channels** 1996;4(3):179–95

Nucleotide sequence, temporal expression, and transcriptional mapping of the p34 late gene of the Hz-1 insect virus. Guttieri MC, et al. **Virology** 1996 Sep 15; 223(2):370–5

Complete sequence and transposon mutagenesis of the BamHI J fragment of Cydia pomonella granulosis virus. Kang W, et al. **Virus Genes** 1997;14(2):131–6

Characterization and expression of the Marek's disease virus serotype 2 glycoprotein E in recombinant baculovirus-infected cells: initial analysis of its DNA sequence and antigenic properties. Jang HK, et al. **Virus Res** 1997 May;48(2):111–23

Identification and sequence analysis of the integration site of transposon TCp3.2 in the genome of Cydia pomonella granulovirus. Jehle JA, et al. **Virus Res** 1997 Aug; 50(2):151–7

[Inhibition of apoptosis by a baculovirus p35 gene] Ohtsubo T, et al. **Nippon Rinsho** 1996 Jul;54(7):1907–11 (19 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

An indirect double-antibody sandwich enzyme-linked immunosorbent assay (ELISA) using baculovirus-expressed antigen for the detection of antibodies to glycoprotein E of pseudorabies virus and comparison of the method with blocking ELISAs. Kimman TG, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):167–74

Detection of rubella virus-specific immunoglobulin M antibodies with a baculovirus-expressed E1 protein. Schmidt M, et al. **Clin Diagn Lab Immunol** 1996 Mar; 3(2):216–8

The plasma protein scolexin from Manduca sexta is induced by baculovirus infection and other immune challenges. Finnerty CM, et al. **Insect Biochem Mol Biol** 1997 Jan; 27(1):1–7

High-level expression in insect cells and purification of secreted monomeric single-chain Fv antibodies. Kretzschmar T, et al. **J Immunol Methods** 1996 Sep 9; 195(1–2):93–101

Generation of monoclonal antibodies against a feline CD antigen (CD4) expressed by a recombinant baculovirus. Shimojima M, et al. **J Vet Med Sci** 1997 Jun;59(6):467–9

ISOLATION & PURIFICATION

Development of a non-radioactive gene probe by PCR for detection of white spot syndrome virus (WSSV). Nunan

LM, et al. **J Virol Methods** 1997 Jan;63(1-2):193-201
Development of an in vitro quantal assay in primary cell cultures for a non-occluded baculo-like virus of penaeid shrimp. Tapay LM, et al. **J Virol Methods** 1997 Feb; 64(1):37-41

METABOLISM

Baculovirus-based expression of mammalian caveolin in Sf21 insect cells. A model system for the biochemical and morphological study of caveolae biogenesis. Li S, et al. **J Biol Chem** 1996 Nov 8;271(45):28647-54
The baculovirus 10-kDa protein. Van Oers MM, et al. **J Invertebr Pathol** 1997 Jul;70(1):1-17 (152 ref.)
Baculovirus expression provides direct evidence for heteromeric assembly of P2X2 and P2X3 receptors. Radford KM, et al. **J Neurosci** 1997 Sep 1;17(17):6529-33
Induction of apoptosis by baculovirus transactivator IE1. Prikhod'ko EA, et al. **J Virol** 1996 Oct;70(10):7116-24
Expression and purification of the seven nonstructural proteins of the flavivirus Kunjin in the E. coli and the baculovirus expression systems. Khromykh AA, et al. **J Virol Methods** 1996 Sep;61(1-2):47-58
Baculovirus expressed 2C of foot-and-mouth disease virus has the potential for differentiating convalescent from vaccinated animals. Meyer RF, et al. **J Virol Methods** 1997 Apr;65(1):33-43
Host factor with single-stranded DNA-binding activity involved in transcription from baculovirus polyhedrin promoter. Hasnain SE, et al. **Methods Enzymol** 1996; 274:20-32
Functional properties of CYP2D6 1 (wild-type) and CYP2D6 7 (His324Pro) expressed by recombinant baculovirus in insect cells. Evert B, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):309-18
Induction of anti-malarial transmission blocking immunity with a recombinant ookinete surface antigen of Plasmodium berghei produced in silkworm larvae using the baculovirus expression vector system. Matsuoka H, et al. **Vaccine** 1996 Feb;14(2):120-6

PATHOGENICITY

The ecology and biosafety of baculoviruses. Cory JS, et al. **Curr Opin Biotechnol** 1997 Jun;8(3):323-7 (38 ref.)
Volumes ingested by four species of noctuids with reference to peroral droplet bioassay of baculoviruses. Kunimi Y, et al. **J Invertebr Pathol** 1996 Nov;68(3):310-1
Species-specific effects of the hcf-1 gene on baculovirus virulence. Lu A, et al. **J Virol** 1996 Aug;70(8):5123-30

PHYSIOLOGY

Baculovirus-mediated trans-epithelial transport of proteins in infected caterpillars. Sárvári M, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):953-63
Responses of insect cells to baculovirus infection: protein synthesis shutdown and apoptosis. Du X, et al. **J Virol** 1997 Oct;71(10):7866-72
Initiation of baculovirus DNA replication: early promoter regions can function as infection-dependent replicating sequences in a plasmid-based replication assay. Wu Y, et al. **J Virol** 1996 Oct;70(10):6967-72
An intestinal mucin is the target substrate for a baculovirus enhancin. Wang P, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6977-82

BADMINTON see **RACQUET SPORTS**

BADNAVIRUS

CHEMISTRY

The ORF I and II proteins of Commelina yellow mottle virus are virion-associated. Cheng CP, et al. **Virology** 1996 Sep 15;223(2):263-71

GENETICS

Efficient transcription from the rice tungro bacilliform virus promoter requires elements downstream of the transcription start site. Chen G, et al. **J Virol** 1996 Dec; 70(12):8411-21
Rice tungro bacilliform virus open reading frames II and III are translated from polycistronic pregenomic RNA by leaky scanning. Fütterer J, et al. **J Virol** 1997 Oct; 71(10):7984-9
The open reading frame 2 product of cacao swollen shoot badnavirus is a nucleic acid-binding protein. Jacquot E, et al. **Virology** 1996 Nov 1;225(1):191-5

ISOLATION & PURIFICATION

Detection of sugarcane bacilliform virus in sugarcane germplasm. Viswanathan R, et al. **Acta Virol** 1996 Feb; 40(1):5-8

METABOLISM

The N-terminal portion of the 216-kDa polyprotein of Commelina yellow mottle badnavirus is required for virus movement but not for replication. Tzafrir I, et al. **Virology** 1997 Jun 9;232(2):359-68

BAGASSOSIS see **PNEUMOCONIOSIS**

BAKER'S CYST see **POPLITEAL CYST**

BAKER'S YEAST see **SACCHAROMYCES CEREVISIAE**

BAKING SODA see **SODIUM BICARBONATE**

BAL see **DIMERCAPROL**

BALANCE see **EQUILIBRIUM**

BALANITIS

COMPLICATIONS

Squamous cell carcinoma of the penis arising from balanitis xerotica obliterans. Giannakopoulos X, et al. **Int Urol Nephrol** 1996;28(2):223-7
Circumferential laser vaporization for severe meatal stenosis secondary to balanitis xerotica obliterans. Hrebinko RL. **J Urol** 1996 Nov;156(5):1735-6

DIAGNOSIS

Pediatric penile swelling. Harrison BP. **Acad Emerg Med** 1996 Apr;3(4):384, 87, 88 (12 ref.)
Acute balanoposthitis in young boys. Schwartz RH, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):176-7

ETIOLOGY

Balanitis and balanoposthitis: a review [letter; comment] Abdennader S, et al. **Genitourin Med** 1996 Dec;72(6):453-4 . Comment on: Genitourin Med 1996 Jun;72(3):155-9.

GENETICS

Balanitis xerotica obliterans in monozygotic twins. Fallick ML, et al. **Br J Urol** 1997 May;79(5):810

MICROBIOLOGY

Balanitis caused by group A beta-hemolytic streptococci. Orden B, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):920-1 (10 ref.)

PATHOLOGY

T-cell predominant balanitis in a traumatic tetraplegic patient: a case report. Van Velzen D, et al. **Spinal Cord** 1996 Apr;34(4):243-6

SURGERY

Full-thickness skin grafts from eyelids to penis, plus split-thickness grafts in chronic balanitis xerotica obliterans. Rudolph R, et al. **Ann Plast Surg** 1997 Feb; 38(2):173-6

BALANTIDIUM

CYTOLOGY

[Cytophotometric analysis of trophozoites and cysts of Balantidium coli] Skotarczak B. **Wiad Parazytol** 1996; 42(2):159-69 (Eng. Abstr.) **(Pol)**

BALDNESS see **ALOPECIA**

BALINT PSYCHOANALYTIC THERAPY see **PSYCHOANALYTIC THERAPY**

BALKAN NEPHROPATHY

BLOOD

Serum angiotensin-converting enzyme activity in patients with endemic nephropathy. Huskić J, et al. **Nephron** 1996; 74(1):120-4
Ochratoxin A in human sera in the area with endemic nephropathy in Croatia. Radić B, et al. **Toxicol Lett** 1997 Apr 28;91(2):105-9

COMPLICATIONS

[Urinary system tumors in patients with endemic nephropathy on chronic hemodialysis] Bukvić D, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:181-3 (Eng. Abstr.) **(Scc)**

ENZYMOLOGY

Serum angiotensin-converting enzyme activity in patients with endemic nephropathy. Huskić J, et al. **Nephron** 1996; 74(1):120-4

EPIDEMIOLOGY

What is wrong with the term Balkan endemic nephropathy? [letter; comment] Radovanovic Z. **Eur J Epidemiol** 1996 Jun;12(3):323. Comment on: Eur J Epidemiol 1995 Apr;11(2):235-8.
Molecular and epidemiological approaches to the etiology of urinary tract tumors in an area with Balkan endemic nephropathy. Nikolov IG, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):201-7
[Endemic nephropathy in the region of Bela Crkva in Banat] Jovanović D, et al. **Vojnosanit Pregl** 1996 Jul-Aug; 53(4):287-91 (Eng. Abstr.) **(Scr)**

IMMUNOLOGY

Identification of a novel subset of T lymphocytes in patients with Balkanic nephropathy. Drugarin D, et al. **Autoimmunity** 1996;23(2):119-26
CD3+, CD16+, CD56+ cells: a novel subset of T lymphocytes from patients with Balkanic nephropathy. Drugărin D, et al. **Roum Arch Microbiol Immunol** 1995 Oct-Dec;54(4):255-64

METABOLISM

Alterations of HDL subfractions in patients with Balkan endemic nephropathy and in healthy family members [letter] Pejović MD, et al. **Clin Nephrol** 1996 Dec; 46(6):411-3
Coexpression of vimentin and cytokeratin in damaged tubular epithelia of kidney in Balkan nephropathy [letter] Stefanovic V, et al. **Nephron** 1996;72(1):119-20

RADIONUCLIDE IMAGING

99mTc-DMS tubular fixation in Balkan endemic nephropathy patients [letter] Rajić M, et al. **Nephron** 1996; 74(1):221-2

BALLISTICS, WOUND see **WOUNDS, GUNSHOT**

BALLISTOCARDIOGRAPHY

INSTRUMENTATION

Static-charge-sensitive bed ballistocardiography in cardiovascular monitoring. Lindqvist A, et al. **Clin Physiol** 1996 Jan;16(1):23-30

METHODS

Ballistocardiogram of avian eggs determined by an electromagnetic induction coil. Ono H, et al. **Med Biol Eng Comput** 1997 Jul;35(4):431-5

BALLOON ANGIOPLASTY see **ANGIOPLASTY, BALLOON**

BALLOON CATHETERIZATION see **BALLOON DILATATION**

BALLOON DILATATION

see related
GASTRIC BUBBLE

An observation of the effects of paraffin paste on nasal epistaxis balloons. Ong CC, et al. **Acta Otorhinolaryngol Belg** 1996;50(3):171-5
Balloon-occluded retrograde transvenous obliteration for gastric varices with gastrorenal or gastrocaval collaterals. Koito K, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1317-20
Hepatic arteriography in patients with hepatocellular carcinoma under balloon occlusion of a hepatic vein draining the tumor-bearing liver parenchyma: useful for arterial infusion treatment? [letter; comment] Murata S, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1063-4. Comment on: AJR Am J Roentgenol 1995 Dec;165(6):1415-9.
Follow-up results of balloon aortic valvuloplasty in children with special reference to causes of late aortic insufficiency. Galal O, et al. **Am Heart J** 1997 Apr;133(4):418-27
Percutaneous double-valve balloon valvotomy for multivalve stenosis: immediate results and intermediate-term follow-up. Sharma S, et al. **Am Heart J** 1997 Jan;133(1):64-70
A comparison of debulking versus dilatation of bifurcation coronary arterial narrowings (from the CAVEAT I Trial). Coronary Angioplasty Versus Excisional Atherectomy Trial-I. Brener SJ, et al. **Am J Cardiol** 1996 Nov 1; 78(9):1039-41
Comparison of six-month results of coronary stenting versus balloon angioplasty alone in patients with acute myocardial infarction. Hong MK, et al. **Am J Cardiol** 1997 Jun 1; 79(11):1524-7
Single therapeutic catheterization to treat coexisting coarctation of the aorta and patent ductus arteriosus. Ing FF, et al. **Am J Cardiol** 1997 Feb 15;79(4):535-7
Transcatheter fenestration dilation and/or creation in postoperative Fontan patients. Kreutzer J, et al. **Am J Cardiol** 1997 Jan 15;79(2):228-32
Comparison of intravascular ultrasound measurements at the sites of balloon dilatations of femoral arteries with measurements of postmortem gross arterial segments at the same sites. Luo H, et al. **Am J Cardiol** 1997 Jun 1; 79(11):1564-7
Balloon pulmonary valvuloplasty for pulmonary valve stenosis with atrial septal defect. Nakasato M, et al. **Am J Cardiol** 1997 Mar 15;79(6):838-9
Usefulness of repeat balloon aortic valvuloplasty in children. Shim D, et al. **Am J Cardiol** 1997 Apr 15;79(8):1141-3
Late (five to nine years) follow-up after balloon dilation of valvular pulmonary stenosis in adults. Teupe CH, et al. **Am J Cardiol** 1997 Jul 15;80(2):240-2
Growth of the right heart after balloon valvuloplasty for critical pulmonary stenosis in the newborn. Velvis H, et al. **Am J Cardiol** 1997 Apr 1;79(7):982-4

Effect of mitral valvuloplasty in mitral stenosis on coagulation activity. Yamamoto K, et al. **Am J Cardiol** 1997 Apr 15;79(8):1131–5

Achalasia: dilatation or myotomy? A continuing enigma. Gadenstätter M, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1572–3

Balloon–occluded retrograde transvenous obliteration (BRTO), a promising nonsurgical therapy for ectopic varices: a case report of successful treatment of duodenal varices by BRTO. Haruta I, et al. **Am J Gastroenterol** 1996 Dec;91(12):2594–7

Endoscopic treatment of bile duct stones: should we cut or dilate the sphincter? [editorial; comment] MacMathuna P. **Am J Gastroenterol** 1997 Sep;92(9):1411–2. Comment on: Am J Gastroenterol 1997 Sep;92(9):1440–3.

A prospective assessment of gastroesophageal reflux before and after treatment of achalasia patients: pneumatic dilation versus transthoracic limited myotomy [see comments] Shoenut JP, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1109–12. Comment in: Am J Gastroenterol 1997 Jul;92(7):1078–9.

Placenta percreta: balloon occlusion and embolization of the internal iliac arteries to reduce intraoperative blood losses. Dubois J, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):723–6

Balloon catheter dilatation for treatment of congenital nasolacrimal duct obstruction [letter; comment] Kushner BJ. **Am J Ophthalmol** 1996 Oct;122(4):598–9. Comment on: Am J Ophthalmol 1996 Mar;121(3):304–9.

Regulation and function of an activation–dependent epitope of the beta 1 integrins in vascular cells after balloon injury in baboon arteries and in vitro. Koyama N, et al. **Am J Pathol** 1996 Mar;148(3):749–61

Balloon versus patch angioplasty as an adjuvant treatment to surgical thrombectomy of hemodialysis grafts. Bitar G, et al. **Am J Surg** 1997 Aug;174(2):140–2

Percutaneous transvenous mitral balloon valvuloplasty alone in patients with combined aortic and mitral stenosis. Lee TM, et al. **Angiology** 1997 May;48(5):445–50

Percutaneous balloon valvuloplasty for severe mitral stenosis in pregnancy. Four case reports. Oto MA, et al. **Angiology** 1997 May;48(5):463–7

The role of surgical ligation of patent ductus arteriosus in the era of the Rashkind device. Galal O, et al. **Ann Thorac Surg** 1997 Feb;63(2):434–7

Surgical repair of a large residual atrial septal defect after transcatheter closure. Hekmat K, et al. **Ann Thorac Surg** 1997 May;63(5):1456–8

Comparison of surgical bypass and percutaneous balloon dilatation with primary stent placement in the treatment of central venous obstruction in the dialysis patient: one–year follow–up. Bhatia DS, et al. **Ann Vasc Surg** 1996 Sep;10(5):452–5

Hypersensitivity of the vascular endothelium to latex balloon catheter. Obrand DI, et al. **Ann Vasc Surg** 1997 Sep; 11(5):536–9 (28 ref.)

Treatment of active gastroesophageal variceal bleeding with terlipressin or hemostatic balloon in patients with cirrhosis. A randomized controlled trial. García–Compeán D, et al. **Arch Med Res** 1997 Summer;28(2):241–5

Heller myotomy is superior to dilatation for the treatment of early achalasia. Anselmino M, et al. **Arch Surg** 1997 Mar; 132(3):233–40

BAYw6228 suppresses accumulation of macrophages in balloon–induced intimal thickening of rabbit carotid artery. Igarashi M, et al. **Atherosclerosis** 1997 Feb 10;128(2):251–4

Expression of VCAM–1 in rabbit iliac arteries is associated with vasodilator dysfunction of regenerated endothelium following balloon injury. Krejcy K, et al. **Atherosclerosis** 1996 Apr 26;122(1):59–67

Substantial inhibition of neo–intimal response to balloon injury in the rat carotid artery using a combination of antibodies to platelet–derived growth factor–BB and basic fibroblast growth factor. Rutherford C, et al. **Atherosclerosis** 1997 Apr;130(1–2):45–51

Expression of syndecan–1 in rabbit neointima following de–endothelialization by a balloon catheter. Wang H, et al. **Atherosclerosis** 1997 Jun;131(2):141–7

Balloon pericardiostomy: a new therapeutic option for malignant pericardial effusion. Devlin GP, et al. **Aust N Z J Med** 1996 Aug;26(4):556–8

Balloon catheter with extra–amniotic saline instillation: a method of induction in pregnancies at 41 or more gestational weeks. Fait G, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):174–6

A penile clamp for retrograde urethrography using external compression by a balloon catheter. Houghton–Allen B. **Australas Radiol** 1997 Feb;41(1):6

Ripening and dilatation of the unfavourable cervix for induction of labour by a double balloon device: experience with 250 cases. Atad J, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):29–32

Sengstaken tube for bleeding rectal angiodysplasia [letter; comment] Basso L, et al. **Br J Surg** 1996 Dec;83(12):1795 . Comment on: Br J Surg 1996 Aug;83(8):1111.

Retrograde balloon dilatation for primary pelvi–ureteric stenosis [letter] Ahmed S. **Br J Urol** 1997 Aug;80(2):361

Anaesthesia for balloon dilatation for congenital tracheal stenosis in an infant [letter] Kinouchi K, et al. **Can J Anaesth** 1996 Oct;43(10):1081

Balloon occlusion portography to diagnose new–onset left hepatic vein thrombosis and widening of an existing Wallstent TIPS by Palmaz stents for recurrent portal hypertension and variceal bleeding. Cope C, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):368–70

Isolated liver perfusion using percutaneous methods: an experimental study in the pig. Harnek J, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec;19(6):418–22

Direct transaortic balloon valvuloplasty under cardiopulmonary bypass for neonatal critical aortic stenosis. Nogi S, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):374–6

Percutaneous mitral valvuloplasty for rheumatic mitral stenosis associated with cor triatriatum. Alfonso F, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):291–3

Implantation of balloon–expandable stents for coarctation of the aorta: implantation data and short–term results [see comments] Bulbul ZR, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):36–42. Comment in: Cathet Cardiovasc Diagn 1996 Sep;39(1):43.

Balloon valvuloplasty: confusing assessment [letter; comment] Cazzaniga M. **Cathet Cardiovasc Diagn** 1997 Jun; 41(2):226–7. Comment on: Cathet Cardiovasc Diagn 1996 Nov;39(3):236–43.

Percutaneous balloon valvuloplasty for pulmonic stenosis [editorial; comment] [see comments] Cheng TO. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):244–5. Comment on: Cathet Cardiovasc Diagn 1996 Nov;39(3):236–43. Comment in: Cathet Cardiovasc Diagn 1997 Apr;40(4):427–30.

Pitfalls and tips in inoue balloon mitral commissurotomy [see comments] Hung JS, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):188–99 (41 ref.). Comment in: Cathet Cardiovasc Diagn 1996 Feb;37(2):200.

Successful balloon dilation of an abdominal coarctation of the aorta in patient with presumed Takayasu's aortitis. Kashani IA, et al. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):406–9

Embolization of a Wiktor stent within a stent: successful nonsurgical management. Kaul U, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):277–9

Management of pediatric patients with isolated valvar aortic stenosis by balloon aortic valvuloplasty. Kuhn MA, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):55–61

Predictors of successful pulmonary balloon valvuloplasty: 10–year experience [see comments] Mendelsohn AM, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):236–43. Comment in: Cathet Cardiovasc Diagn 1996 Nov;39(3):244–5. Comment in: Cathet Cardiovasc Diagn 1997 Apr;40(4):427–30. Comment in: Cathet Cardiovasc Diagn 1997 Jun;41(2):226–7.

Percutaneous transhepatic mitral commissurotomy. Punamiya K, et al. **Cathet Cardiovasc Diagn** 1996 Oct; 39(2):204–6

Inoue balloon: is it really easier? [editorial; comment] Ruiz CE, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):200. Comment on: Cathet Cardiovasc Diagn 1996 Feb;37(2):188–90.

Short– and long–term clinical effects of primary directional coronary atherectomy for acute myocardial infarction [see comments] Saito S, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):157–65. Comment in: Cathet Cardiovasc Diagn 1996 Oct;39(2):166–7.

Unusual respiratory variation in right ventricular pressure following balloon pulmonary valvuloplasty in a pregnant patient [letter] Shah C, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):227–8

Rescue revascularization of tandem occluded intracoronary stents: technique and equipment. Topaz O, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):185–90

Percutaneous transluminal balloon pulmonary valvuloplasty using domestic balloon catheter for congenital pulmonary valve stenosis in children. Xia C, et al. **Chin Med J (Engl)** 1996 Aug;109(8):618–21

Changes of plasma dynorphin levels before and after percutaneous balloon mitral commissurotomy in patients with mitral stenosis. Yin R, et al. **Chin Med Sci J** 1995 Dec;10(4):214–9

Mechanical pressure and stretch release endothelin–1 from human atherosclerotic coronary arteries in vivo. Hasdai D, et al. **Circulation** 1997 Jan 21;95(2):357–62

Comparison of myocardial perfusion reserve before and after coronary balloon predilatation and after stent implantation in patients with postangioplasty restenosis. Haude M, et al. **Circulation** 1996 Aug 1;94(3):286–97

Immediate results of percutaneous mitral commissurotomy. A predictive model on a series of 1514 patients. Iung B, et al. **Circulation** 1996 Nov 1;94(9):2124–30

Actuarial outcome after catheter balloon commissurotomy in patients with mitral stenosis. Orrange SE, et al. **Circulation** 1997 Jan 21;95(2):382–9

Identification of a potential role for the adventitia in vascular lesion formation after balloon overstretch injury of porcine coronary arteries. Scott NA, et al. **Circulation** 1996 Jun 15;93(12):2178–87

Inhibition of intimal hyperplasia after balloon injury by antibodies to intercellular adhesion molecule–1 and lymphocyte function–associated antigen–1 [see comments] Yasukawa H, et al. **Circulation** 1997 Mar 18;95(6):1515–22 . Comment in: Circulation 1997 Mar 18;95(6):1355–6.

Percutaneous balloon catheter closure of a patent foramen ovale in a patient with pulmonary disease, profound hypoxemia, and normal right heart pressures. Allan JJ, et al. **Clin Cardiol** 1997 Mar;20(3):307–9

Percutaneous transvenous mitral commissurotomy versus surgical commissurotomy in the treatment of mitral stenosis. Lau KW, et al. **Clin Cardiol** 1997 Feb;20(2):99–106 (62 ref.)

Interventional catheterization for congenital heart disease––limited "surgery" without the chest scar. Latson LA. **Clin Pediatr (Phila)** 1997 Mar;36(3):125–7

Valve repair and replacement in children [see comments] Lewis DA, et al. **Curr Opin Cardiol** 1997 Jan;12(1):63–9 (37 ref.). Comment in: Curr Opin Cardiol 1997 Jan;12(1):41–3.

Effect of pneumatic dilation on gastroesophageal reflux in achalasia. Burke CA, et al. **Dig Dis Sci** 1997 May; 42(5):998–1002

Esophageal and lower esophageal sphincter response to balloon distention in patients with achalasia. Paterson WG. **Dig Dis Sci** 1997 Jan;42(1):106–12

Endoscopic management of food–filled duodenal diverticulum mimicking a pancreatic tumour. Dickey W, et al. **Endoscopy** 1997 Jun;29(5):S29–30

Balloon dilation of the papilla via a forward–viewing endoscope: an aid to therapeutic endoscopic retrograde cholangiopancreatography in patients with Billroth–II gastrectomy. Dickey W, et al. **Endoscopy** 1996 Aug; 28(6):531–2

Endoscopic papillary balloon dilation in cirrhotic patients: removal of common bile duct stones without sphincterotomy. Kawabe T, et al. **Endoscopy** 1996 Oct; 28(8):694–8

Long–term follow–up of patients undergoing ballon dilation for benign pyloric stenoses. Misra SP, et al. **Endoscopy** 1996 Sep;28(7):552–4

Endoscopic balloon dilation of strictures complicating solitary rectal ulcer syndrome. Over H, et al. **Endoscopy** 1997 Jun;29(5):427–9

Endoscopic sphincteroclasy: a useful therapeutic tool for biliary endoscopy in Billroth II gastrectomy patients. Prat F, et al. **Endoscopy** 1997 Feb;29(2):79–81

Direct gene transfer into the colon using a double–balloon catheter. Schmid RM, et al. **Endoscopy** 1997 Jan; 29(1):39–43

ERCP and balloon dilation is a valuable alternative to surgical biliodigestive anastomosis in the long common channel syndrome in childhood [letter; comment] Schreiber F, et al. **Endoscopy** 1996 Oct;28(8):724–5. Comment on: Endoscopy 1995 Nov;27(9):709–10.

ERCP and balloon dilation is a valuable alternative to surgical biliodigestive anastomosis in the long common channel syndrome in childhood [see comments] Sebesta C, et al. **Endoscopy** 1995 Nov;27(9):709–10. Comment in: Endoscopy 1996 Oct;28(8):724–5.

Postoperative ischemic jejunal stenosis treated with balloon catheter dilation and Wallstent implantation. Solt J, et al. **Endoscopy** 1997 Jun;29(5):409–12

Physical training improves exercise capacity in patients with mitral stenosis after balloon valvuloplasty. Douard H, et al. **Eur Heart J** 1997 Mar;18(3):464–9

Induction of subaortic septal ischaemia to reduce obstruction in hypertrophic obstructive cardiomyopathy. Studies to develop a new catheter–based concept of treatment [see comments] Kuhn H, et al. **Eur Heart J** 1997 May; 18(5):846–51. Comment in: Eur Heart J 1997 May;18(5):709–10.

Assessment of accuracy of the Doppler pressure half–time method in the estimation of the mitral valve area immediately after balloon mitral valvuloplasty. Pitsavos CE, et al. **Eur Heart J** 1997 Mar;18(3):455–63

Percutaneous mitral valvuloplasty: a decade of experience. Stefanadis C, et al. **Eur Heart J** 1995 Nov;16(11):1463–8 (28 ref.)

Percutaneous occlusion of the entry to a leaking false aneurysm after ascending aortic replacement for aortic dissection type A facilitating surgical repair. Henriques JP, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):381–3

Aortic valve replacement after aortic valvuloplasty for calcified aortic stenosis. Soyer R, et al. **Eur J Cardiothorac Surg** 1996;10(11):977–82

Intra–oesophageal balloon distension and oesophageal sensation in humans. Johnston BT, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1221–9 (91 ref.)

Mucosal acid exposure sensitizes a subset of normal subjects to intra–oesophageal balloon distension. Peghini PL, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):979–83

Objective and subjective comparison of transurethral resection, transurethral incision and balloon dilatation of the prostate. A prospective study. Saporta L, et al. **Eur Urol** 1996;29(4):439–45

Balloon dilatation of the aortic valve in the fetus. A case report. Lopes LM, et al. **Fetal Diagn Ther** 1996 Jul–Aug; 11(4):296–300

Controlled trial of botulinum toxin injection versus placebo and pneumatic dilation in achalasia. Annese V, et al. **Gastroenterology** 1996 Dec;111(6):1418–24

Rectal distention–induced colonic net water secretion in rats involves tachykinins, capsaicin sensory, and vagus nerves. Eutamene H, et al. **Gastroenterology** 1997 May; 112(5):1595–602

Perendoscopic injection of botulinum toxin is effective in achalasia after failure of myotomy or pneumatic dilation. Annese V, et al. **Gastrointest Endosc** 1996 Oct;44(4):461–5

Efficacy and safety of hydrostatic balloon dilatation of ileocolonic Crohn's studies: a prospective longterm analysis. Coffey MJ, et al. **Gastrointest Endosc** 1996 Jan;

43(1):89–90
Balloon extraction of an impacted meat bolus after argon beam coagulation [letter] Lingenfelser T. **Gastrointest Endosc** 1997 Aug;46(2):195
The acute and long-term effect of balloon sphincteroplasty on papillary structure in pigs. Mac Mathuna P, et al. **Gastrointest Endosc** 1996 Dec;44(6):650–5
An objective end point for dilation improves outcome of peptic esophageal strictures: a prospective randomized trial. Saeed ZA, et al. **Gastrointest Endosc** 1997 May;45(5):354–9
Use of high-resolution endoscopic ultrasonography to assess esophageal wall damage after pneumatic dilation and botulinum toxin injection to treat achalasia. Schiano TD, et al. **Gastrointest Endosc** 1996 Aug;44(2):151–7
Adenovirus-mediated gene transfer into injured arteries: quantitative analysis of repeated administration. Ueno H. **Gerontology** 1996;42 Suppl 1:25–36
Laser valvotomy with balloon valvoplasty for pulmonary atresia with intact ventricular septum: five years' experience. Gibbs JL, et al. **Heart** 1997 Mar;77(3):225–8
Effects of increasing flow rate on aortic stenotic indices: evidence from percutaneous transvenous balloon dilatation of the mitral valve in patients with combined aortic and mitral stenosis [published erratum appears in Heart 1997 Mar;77(3):294] Lee TM, et al. **Heart** 1996 Dec;76(6):490–4
Should balloon angioplasty be used instead of surgery for native aortic coarctation? [letter; comment] Qureshi SA, et al. **Heart** 1997 Jan;77(1):86–7. Comment on: Br Heart J 1995 Dec;74(6):578–9.
Pulmonary balloon valvuloplasty in the palliation of complex cyanotic congenital heart disease. Stümper O, et al. **Heart** 1996 Oct;76(4):363–6
Acute changes in left ventricular function after percutaneous transluminal mitral valvuloplasty. Razzolini R, et al. **Heart Vessels** 1996;11(2):86–91
Serial changes in proximal urethral function after transurethral balloon laser hyperthermia of the prostate (TUBAL-H) in a canine model. Kurokawa K, et al. **Hinyokika Kiyo** 1996 Sep;42(9):655–61
Hysteroscopic correction of a complete septate uterus using a balloon technique. Römer T, et al. **Hum Reprod** 1997 Mar;12(3):478–9
Early induction of angiotensin I-converting enzyme in rat carotid artery after balloon injury. Fernandez-Alfonso MS, et al. **Hypertension** 1997 Aug;30(2 Pt 1):272–7
Beneficial effect of balloon mitral valvotomy in reducing severity of associated tricuspid regurgitation. Sambasivam KA, et al. **Indian Heart J** 1997 May-Jun;49(3):271–3
Achalasia cardia dilatation using polyethylene balloon (Rigiflex) dilators. Bhatnagar MS, et al. **Indian J Gastroenterol** 1996 Apr;15(2):49–51
Balloon dilatation of native coarctation of aorta in infancy. Jagtap PM, et al. **Indian Pediatr** 1996 Jan;33(1):55–8
Intracardiac fluid resuscitation in penetrating cardiac wounds. Najm HK. **Injury** 1997 Apr;28(3):231–2
Percutaneous balloon dilatation of subaortic membrane using an Inoue balloon. Bahl VK, et al. **Int J Cardiol** 1996 Apr 19;54(1):81–4
Versatility of Inoue balloon catheter. Bahl VK, et al. **Int J Cardiol** 1997 Mar;59(1):75–83
Right ventricular function before and after percutaneous balloon mitral valvuloplasty. Burger W, et al. **Int J Cardiol** 1997 Jan 3;58(1):7–15
Successful percutaneous double balloon valvuloplasty for congenital mitral stenosis. Jarrar M, et al. **Int J Cardiol** 1996 Oct 11;56(2):193–6
Changes of left ventricular function after percutaneous balloon mitral valvuloplasty in mitral stenosis with impaired left ventricular performance. Lee TM, et al. **Int J Cardiol** 1996 Oct 25;56(3):211–5
Percutaneous balloon valvuloplasty of stenosed mitral bioprosthesis. Lip GY, et al. **Int J Cardiol** 1997 Mar; 59(1):97–100
Percutaneous transvenous mitral commissurotomy for rheumatic mitral stenosis with impaired left ventricular function: an echocardiographic follow-up study. Mathur A, et al. **Int J Cardiol** 1996 Oct 25;56(3):217–21
Left ventricular filling and ejection fraction after successful percutaneous balloon mitral valvuloplasty. Pamir G, et al. **Int J Cardiol** 1997 May 23;59(3):243–6
Temporary main bronchial occlusion under bronchoscopic control in the evaluation of candidates for pneumonectomy. Melloni G, et al. **Int Surg** 1997 Jan-Mar;82(1):34–7
Comparison of 1 and 3 days' transurethral Foley catheterization after retropubic incontinence surgery. Schiøtz HA. **Int Urogynecol J Pelvic Floor Dysfunct** 1996; 7(2):98–101
Bilateral bronchial balloon dilatation and Strecker stent implantation in a ventilated child with malignant carinal stenosis. Nicolai T, et al. **Intensive Care Med** 1996 May; 22(5):482–5
Echocardiographic assessment of commissural calcium: a simple predictor of outcome after percutaneous mitral balloon valvotomy. Cannan CR, et al. **J Am Coll Cardiol** 1997 Jan;29(1):175–80
Transvascular balloon dilation for neonatal critical aortic stenosis: early and midterm results. Egito ES, et al. **J Am Coll Cardiol** 1997 Feb;29(2):442–7
Restenosis of endovascular stents from stent compression. Rosenfield K, et al. **J Am Coll Cardiol** 1997 Feb; 29(2):328–38
Variability between methods of calculating mitral valve area: simultaneous Doppler echocardiographic and cardiac catheterization studies conducted before and after percutaneous mitral valvuloplasty. Klarich KW, et al. **J Am Soc Echocardiogr** 1996 Sep-Oct;9(5):684–90
Pathomorphological characteristics of resected mitral valves after unsuccessful valvuloplasty. Miche E, et al. **J Cardiovasc Surg (Torino)** 1996 Oct;37(5):475–81
Combined surgical and endovascular treatment of a traumatic pseudo-aneurysm of the brachiocephalic trunk with anatomical anomaly. Ruebben A, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):173–6
Successful dilatation of pyloric stricture resistant to balloon dilatation with electrocautery using a sphinctertome. Boron B, et al. **J Clin Gastroenterol** 1996 Oct;23(3):239–41
Stretch-induced VEGF expression in the heart. Li J, et al. **J Clin Invest** 1997 Jul 1;100(1):18–24
Ureteropelvic invagination procedure for endopyelotomy (Gelet technique): review of 51 consecutive cases. Combe M, et al. **J Endourol** 1996 Apr;10(2):153–7
Acucise endopyelotomy: evolution of a less-invasive technology. Nakada SY, et al. **J Endourol** 1996 Apr; 10(2):133–9 (30 ref.)
Comparison of acucise endopyelotomy and endoballoon rupture for management of secondary proximal ureteral stricture in the porcine model. Nakada SY, et al. **J Endourol** 1996 Aug;10(4):311–8
Endoscopic placement of coaxial balloon dilating catheter to facilitate open ureteral surgery. Sershon PD, et al. **J Endourol** 1996 Feb;10(1):57–9
Endovascular techniques in adult aortic coarctation: the use of stents for native and recurrent coarctation repair. Diethrich EB, et al. **J Endovasc Surg** 1995 May;2(2):183–8
A new nonstented balloon-expandable graft for straight or bifurcated endoluminal bypass. White GH, et al. **J Endovasc Surg** 1994 Sep;1:16–24
The wisdom of repairing stenotic mitral lesions [editorial; comment] Duran CM. **J Heart Valve Dis** 1997 Jul; 6(4):375–6. Comment on: J Heart Valve Dis 1997 Jul;6(4):370–2.
Improving methods of chordal sparing mitral valve replacement. Part I: A new, non-distorting isovolumic balloon preparation for the left ventricle with intact mitral subvalvular apparatus. Komeda M, et al. **J Heart Valve Dis** 1996 Jul;5(4):376–82
Predictors of unsuccessful outcome after percutaneous mitral valvulotomy including a new echocardiographic scoring system. Miche E, et al. **J Heart Valve Dis** 1996 Jul; 5(4):430–5
Percutaneous mitral valvulotomy in the presence of atrial septal aneurysm. Sarikamis C, et al. **J Heart Valve Dis** 1997 Jan;6(1):71–3
Transjugular intrahepatic portosystemic stent-shunt (TIPSS) occlusion and the role of biliary venous fistulae. Jalan R, et al. **J Hepatol** 1996 Feb;24(2):169–76
Control of venous hemorrhage during laparoscopic adrenalectomy: a case report. Carlson MA, et al. **J Laparoendosc Surg** 1996 Oct;6(5):349–51
Combined forceps and catheter extraction of an oesophageal foreign body. al-Shahi R, et al. **J Laryngol Otol** 1997 Jun; 111(6):583–4
Balloon pulmonary valvuloplasty in children, one year follow-up experience at Ramathibodi Hospital. Khowsathit P, et al. **J Med Assoc Thai** 1997 Aug;80(8):486–90
Comparison of bronchoalveolar lavage and catheter lavage to confirm ventilator-associated lower respiratory tract infection. Humphreys H, et al. **J Med Microbiol** 1996 Sep; 45(3):226–31
Balloon-assisted coil placement in wide-necked aneurysms. Technical note. Levy DI, et al. **J Neurosurg** 1997 Apr; 86(4):724–7
Brain perfusion imaging during preoperative temporary balloon occlusion of the internal carotid artery [see comments] Lorberboym M, et al. **J Nucl Med** 1996 Mar; 37(3):415–9. Comment in: J Nucl Med 1996 Mar;37(3):419–20.
Temporary balloon occlusion, SPECT and carotid artery sacrifice [editorial; comment] Palestro CJ. **J Nucl Med** 1996 Mar;37(3):419–20. Comment on: J Nucl Med 1996 Mar;37(3):415–9.
Endoscopic balloon dilatation of failed pyloromyotomy in young infants. Khoshoo V, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):447–51
Ventilatory management casebook. Resolution of pulmonary interstitial emphysema using a balloon catheter. al-Alaiyan S, et al. **J Perinatol** 1996 Nov-Dec;16(6):501–3
Combining medical and mechanical methods of cervical ripening. Does it increase the likelihood of successful induction of labor? Sullivan CA, et al. **J Reprod Med** 1996 Nov;41(11):823–8
The value of perioperative echocardiography in percutaneous balloon mitral valvuloplasty. Lu Q, et al. **J Tongji Med Univ** 1996;16(2):91–5
Easy visualization of the membranous urethral stump in radical prostatectomy. Douglas L, et al. **J Urol** 1997 Feb; 157(2):576–7
Percutaneous cystolithotomy with endotracheal tube tract dilation after urinary tract reconstruction. Elder JS. **J Urol** 1997 Jun;157(6):2298–300
Adjuvant home urethral balloon dilation for the recalcitrant urethral stricture. Levine LA, et al. **J Urol** 1997 Sep;158(3 Pt 1):818–21
Recanalization of occluded veins to provide access for central catheter placement. Ferral H, et al. **J Vasc Interv Radiol** 1996 Sep-Oct;7(5):681–5
Percutaneous treatment of benign portal vein stenosis after liver transplantation. Godoy MA, et al. **J Vasc Interv Radiol** 1996 Mar-Apr;7(2):273–6
Percutaneous deflation of a vertebral artery occlusion balloon that migrated to the axillary artery. Kallmes DF, et al. **J Vasc Interv Radiol** 1997 Sep-Oct;8(5):809–12
Successful reversal of hepatic encephalopathy with intentional occlusion of transjugular intrahepatic portosystemic shunts. Kerlan RK Jr, et al. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):917–21
Physical properties of polytetrafluoroethylene bypass material after balloon dilation. Palmaz F, et al. **J Vasc Interv Radiol** 1996 Sep-Oct;7(5):657–63
Lacrimal canalicular obstructions: safety and effectiveness of balloon dilation. Song HY, et al. **J Vasc Interv Radiol** 1996 Nov-Dec;7(6):929–34
Impact of arterial surgery and balloon angioplasty on amputation: a population-based study of 1155 procedures between 1973 and 1992. Hallett JW Jr, et al. **J Vasc Surg** 1997 Jan;25(1):29–38
Proximal bleeding control obtained by a balloon catheter in the surgical repair of a left supraclavicular traumatic arteriovenous fistula. Nemes A, et al. **J Vasc Surg** 1997 Mar;25(3):587–90
Balloon-expandable endobypass for femoropopliteal atherosclerotic occlusive disease. A preliminary evaluation of fifty-five patients. Spoelstra H, et al. **J Vasc Surg** 1996 Oct;24(4):647–54
Comparison of aortic valve replacement and percutaneous aortic balloon valvuloplasty for elderly patients with aortic stenosis. Hashimoto H, et al. **Jpn Circ J** 1996 Mar; 60(3):142–8
Comparison of immediate and long-term outcome of percutaneous transvenous mitral commissurotomy in patients who have and have not undergone previous surgical commissurotomy. Ito T, et al. **Jpn Circ J** 1997 Mar;61(3):218–22
Effects of balloon pulmonary valvuloplasty on atrial shunting--a patient with pulmonary valve stenosis and a large secundum atrial septal defect. Kin H, et al. **Jpn Circ J** 1997 Feb;61(2):192–6
Blockade of growth factor synthesis and growth factor action: two possible sites of interference in allograft vessel disease and coronary bypass or balloon injury. Häyry P, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):101–3
Free flap expansion using balloon-assisted endoscopic technique. Lin CH, et al. **Microsurgery** 1996;17(6):330–6
Pulmonic stenosis in adolescents and adults [letter; comment] Bernstein SL. **N Engl J Med** 1996 Nov 28;335(22):1688–9 . Comment on: N Engl J Med 1996 Jul 4;335(1):21–5.
Cerebral hemodynamic changes during carotid artery balloon occlusion monitored by near-infrared spectroscopy. Kuroda S, et al. **Neurol Med Chir (Tokyo)** 1996 Feb; 36(2):78–86
Percutaneous balloon compression of the trigeminal nerve. Brown JA, et al. **Neurosurg Clin N Am** 1997 Jan;8(1):53–62 (10 ref.)
Endovascular treatment of a dissecting posteroinferior cerebellar artery aneurysm: case report. Lefkowitz MA, et al. **Neurosurgery** 1996 Nov;39(5):1036–8; discussion 1038–9
Foley catheters for uncontrollable obstetric or gynecologic hemorrhage. De Loor JA, et al. **Obstet Gynecol** 1996 Oct; 88(4 Pt 2):737
Balloon atrial septostomy under two-dimensional echocardiographic control: a new outlook. Jamjureeruk V, et al. **Pediatr Cardiol** 1997 May-Jun;18(3):197–200
Temporary balloon occlusion of the inferior vena cava as an alternative to cardiopulmonary bypass in resection of Wilms' tumour with vena cava extension. Adams WM, et al. **Pediatr Radiol** 1997 Mar;27(3):236–8
Tandem balloon dilatation for childhood achalasia. Hammond PD, et al. **Pediatr Radiol** 1997 Jul;27(7):609–13
Pneumatic dilatation in childhood cardio-achalasia. Wilkinson AG, et al. **Pediatr Radiol** 1997 Jan;27(1):60–2
Balloon dilatation of the pelviureteric junction in children: early experience and pitfalls. Wilkinson AG, et al. **Pediatr Radiol** 1996 Dec;26(12):882–6
Role of the p21 cyclin-dependent kinase inhibitor in limiting intimal cell proliferation in response to arterial injury. Yang ZY, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):7905–10
Percutaneous balloon mitral valvuloplasty. Glazier JJ, et al. **Prog Cardiovasc Dis** 1997 Jul-Aug;40(1):5–26 (134 ref.)
Balloon aortic valvuloplasty. Wang A, et al. **Prog Cardiovasc Dis** 1997 Jul-Aug;40(1):27–36 (39 ref.)
Balloon dilation of congenital and acquired stenosis of the trachea and bronchi. Jaffe RB. **Radiology** 1997 May; 203(2):405–9
Behçet's syndrome with pulmonary involvement-combined therapy for endobronchial stenosis using neodym-YAG laser, balloon dilation and immunosuppression. Witt C, et al. **Respiration** 1996;63(3):195–8
Balloon valvuloplasty for severe mitral valve stenosis in pregnancy. A report of 11 cases. Dommisse J, et al. **S Afr Med J** 1996 Sep;86(9 Suppl):1194–6
Balloon dilatation of the external urethral sphincter in the treatment of detrusor-sphincter dyssynergia. McFarlane JP, et al. **Spinal Cord** 1997 Feb;35(2):96–8
Effect of proximal arterial perfusion pressure on function,

spinal cord blood flow, and histopathologic changes after increasing intervals of aortic occlusion in the rat [letter; comment] Schepens MA. **Stroke** 1997 Apr;28(4):878–9. Comment on: Stroke 1996 Oct;27(10):1850–8.

Preoperative pneumatic dilatation represents a risk factor for laparoscopic Heller myotomy. Morino M, et al. **Surg Endosc** 1997 Apr;11(4):359–61

Mitral valve operation after percutaneous transvenous mitral commissurotomy (PTMC): an evaluation of PTMC indications based on intraoperative findings. Abe T, et al. **Surg Today** 1996;26(11):904–9

A simple technique to achieve haemostasis and prevent clot retention in suprapubic prostatectomy. Subrahmanyam M. **Trop Doct** 1997 Apr;27(2):107

Induction of second trimester non-viable pregnancies by intrauterine infusions through a vaginally placed Foley catheter. Tomlinson AJ. **Trop Doct** 1997 Apr;27(2):91–3

[Percutaneous transvenous balloon dilatation of mitral valve stenosis] Bagger JP, et al. **Ugeskr Laeger** 1997 Mar 17; 159(12):1763–7 (Eng. Abstr.) **(Dan)**

[5 years results of percutaneous mitral commissurotomy. Apropos of a series of 606 patients; late results after mitral dilatation] Iung B, et al. **Arch Mal Coeur Vaiss** 1996 Dec; 89(12):1591–8 (30 ref.) (Eng. Abstr.) **(Fre)**

[Endoscopic treatment of common bile duct calculi in patients with liver cirrhosis. Value of hydrostatic dilatation of the papilla (letter)] D'Alteroche L, et al. **Gastroenterol Clin Biol** 1997;21(5):442–3 **(Fre)**

Simultaneous endoluminal dilatation and conventional surgery. Importance of programmed revascularization of the legs] Mellière D, et al. **J Mal Vasc** 1997 Jul;22(3):173–9; discussion 179–80 (Eng. Abstr.) **(Fre)**

[Percutaneous balloon dilatation of the mitral valve in a case of severe mitral stenosis] Casters L, et al. **Rev Med Liege** 1997 Jun;52(6):382–7 **(Fre)**

[Intravascular ultrasound for monitoring percutaneous fenestration of a membrane from an aortic dissection] Görge G, et al. **Dtsch Med Wochenschr** 1996 Dec 20; 121(51–52):1598–602 (Eng. Abstr.) **(Ger)**

[Reperfusion therapy in acute myocardial infarct, Thrombolysis or balloon dilatation?] Zeymer U, et al. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1081–5 (30 ref.) **(Ger)**

[Long-term results of endoscopic balloon dilatation of ulcer-induced pyloric stenoses—follow-up of 25 patients] Schilling D, et al. **Z Gastroenterol** 1997 Feb;35(2):105–8 (Eng. Abstr.) **(Ger)**

[Intermediate and long-term outcome after percutaneous balloon dilatation of valvular pulmonary stenoses in childhood] Mahnert B, et al. **Z Kardiol** 1996 Jul;85(7):482–8 (Eng. Abstr.) **(Ger)**

[Balloon mitral valvuloplasty] Turgeman Y, et al. **Harefuah** 1996 Sep;131(5–6):151–6, 216 (Eng. Abstr.) **(Heb)**

[Percutaneous mitral valvuloplasty in mitral restinosis after surgical commissurotomy] Ramondo A, et al. **G Ital Cardiol** 1997 Apr;27(4):357–62 (Eng. Abstr.) **(Ita)**

[Candida esophageal stenosis in an HIV+ patient. Diagnostic imaging and palliative treatment with balloon catheter] Diotallevi P, et al. **Radiol Med (Torino)** 1996 Jul–Aug; 92(1–2):159–61 **(Ita)**

[Experience with one-lung anesthesia using balloon catheter for patients with terminal tracheostomy] Matsumura Y, et al. **Kyobu Geka** 1996 Dec;49(13):1078–80 (Eng. Abstr.) **(Jpn)**

[Chronic expanding hematoma following pneumonectomy managed with a thoracic balloon: a case report] Shimokawa T, et al. **Kyobu Geka** 1997 May;50(5):417–20 (Eng. Abstr.) **(Jpn)**

[Balloon-occluded retrograde transvenous obliteration for treatment of gastroesophageal varices] Kanekawa H, et al. **Nippon Geka Gakkai Zasshi** 1996 Jan;97(1):78–82 **(Jpn)**

[Balloon-occluded ethanol ablation therapy: (BEAT) for hepatocellular carcinoma] Motohara T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jun;57(7):433–5 (Eng. Abstr.) **(Jpn)**

[Use of silicone stents for tracheobronchial stenosis due to tumors] Nomori H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):666–9 (Eng. Abstr.) **(Jpn)**

[Effect of percutaneous transluminal mitral commissurotomy on pulmonary function and on the pulmonary vasculature] Ohnuma N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar;35(3):261–6 (Eng. Abstr.) **(Jpn)**

[A case report of successful aortic and mitral balloon valvotomy in patient with acute renal failure] Kanehiro K, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):191–4 (Eng. Abstr.) **(Jpn)**

[Mitral valvoplasty by balloon catheter. A method in improvement (editorial; comment)] Cardoso LF. **Arq Bras Cardiol** 1996 May;66(5):275–6. Comment on: Arq Bras Cardiol 1996 May;66(5):267–73. **(Por)**

[The endourinary dilatation of a stricture of the ureter or the pyeloureteral segment in nephrolithiasis patients] Zhila VV, et al. **Klin Khir** 1996;(7):7–8 **(Rus)**

[Experience in catheter balloon dilatation of the heart valves abd aorta in 1024 patients] Silin VA, et al. **Vestn Rentgenol Radiol** 1996 Sep–Oct;(5):10–2 (Eng. Abstr.) **(Rus)**

[Dilatation of esophageal strictures with balloon catheter. Safety and effectiveness of balloon dilatation] Sancipriano Hernandez JA, et al. **Acta Otorrinolaringol Esp** 1997 Apr; 48(3):225–8 (Eng. Abstr.) **(Spa)**

[Treatment of ureteral stenoses with the Acucise catheter] Fernández González I, et al. **Arch Esp Urol** 1996 Jun; 49(5):511–6 (Eng. Abstr.) **(Spa)**

[Angioplasty of residual lesions after correcting surgery of transposition of great vessels] González Barrero AJ, et al. **Rev Esp Cardiol** 1997 Jan;50(1):42–7 (Eng. Abstr.) **(Spa)**

[Esophageal achalasia with apparently normal relaxation of the lower sphincter: clinical significance and therapeutic response to pneumatic dilatation] Garrigues Gil V, et al. **Rev Esp Enferm Dig** 1996 Aug;88(8):529–32 (Eng. Abstr.) **(Spa)**

[Choledocholithiasis: sphincterotomy vs. dilatation] Suárez Morán E. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S107–9 **(Spa)**

[Successful treatment of recurrent esophageal stricture. Steroids and dilatation resulted in permanent cure] Toth E, et al. **Lakartidningen** 1997 Aug 6;94(32–33):2751–3 **(Swe)**

ADVERSE EFFECTS

Right atrial thrombus complicating mitral valvuloplasty. Konecky N, et al. **Am Heart J** 1996 Oct;132(4):893–4

Echocardiographic score as a predictor of in-hospital cost in patients undergoing percutaneous balloon mitral valvuloplasty. Eisenberg MJ, et al. **Am J Cardiol** 1996 Oct 1;78(7):790–4

Transient ST-segment changes associated with mitral valvuloplasty using the Inoue balloon. Ludman PF, et al. **Am J Cardiol** 1997 Jun 15;79(12):1704–5

Airway obstruction due to a Sengstaken-Blakemore tube. Kelly DJ, et al. **Anesth Analg** 1997 Jul;85(1):219–21

Balloon catheter injury and vein graft morphology and function. Davies MG, et al. **Ann Vasc Surg** 1996 Sep; 10(5):429–42

Cytotoxic effect of photodynamic therapy with Photofrin II on intimal hyperplasia. Eton D, et al. **Ann Vasc Surg** 1996 May;10(3):273–82

Antiatherogenic effect of estrogen abolished by balloon catheter injury in cholesterol-clamped rabbits. Holm P, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug; 17(8):1504–11

Nuclear factor-kappaB activity and arterial response to balloon injury. Cercek B, et al. **Atherosclerosis** 1997 May; 131(1):59–66

Synthesis of tissue inhibitor of metalloproteinase-1 (TIMP-1) in rabbit aortic neointima after selective de-endothelialization. Wang H, et al. **Atherosclerosis** 1996 Sep 27;126(1):95–104

Temporal expression of c-fos mRNA following balloon injury in the rat common carotid artery. Mills CJ, et al. **Cardiovasc Res** 1996 Nov;32(5):954–61

Extensive coronary dissection caused by balloon rupture at high pressure during stent deployment. Esente P, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):263–5

Transcatheter retrieval of an embolized Palmaz stent from the right ventricle of a child. Hoyer MH, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):277–80

Unsuccessful deflation of a bifoil balloon during percutaneous mitral valvuloplasty. Patel TM, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):290–2

Detachment of balloon in an infant: a rare complication of balloon pulmonary valvuloplasty. Hwang B, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov-Dec;37(6):451–4

Evaluation of superficial femoral artery compromise and limb growth retardation after transfemoral artery balloon dilatations. Lee HY, et al. **Circulation** 1997 Feb 18; 95(4):974–80

Severe mitral regurgitation following Inoue balloon valvuloplasty [letter] Hennessy TG, et al. **Eur Heart J** 1997 Mar;18(3):527–8

Tranilast suppresses the vascular intimal hyperplasia after balloon injury in rabbits fed on a high-cholesterol diet. Fukuyama J, et al. **Eur J Pharmacol** 1996 Dec 30; 318(2–3):327–32

Spontaneous diabetes in BB Wistar rats causes small increases in the early proliferative response of smooth muscle cells in re-injured aortae. Winocour PD, et al. **Exp Mol Pathol** 1995 Dec;63(3):161–74

Complications and their impact after pneumatic dilation for achalasia: prospective long-term follow-up study [see comments] Eckardt VF, et al. **Gastrointest Endosc** 1997 May;45(5):349–53. Comment in: Gastrointest Endosc 1997 May;45(5):437–9.

Pneumatic dilation for achalasia: are all complications revealed? [editorial; comment] Khandelwal M, et al. **Gastrointest Endosc** 1997 May;45(5):437–9 (12 ref.). Comment on: Gastrointest Endosc 1997 May;45(5):349–53.

Congenital mitral stenosis: challenge of percutaneous transvenous mitral commissurotomy. Chen GY, et al. **Int J Cardiol** 1997 Jun 27;60(1):99–102

Arginine restores nitric oxide activity and inhibits monocyte accumulation after vascular injury in hypercholesterolemic rabbits. Wang BY, et al. **J Am Coll Cardiol** 1996 Nov 15; 28(6):1573–9

Ultrastructural localisation of nitric oxide synthase, endothelin and binding sites of lectin (from Bandeirea simplicifolia) in the rat carotid artery after balloon catheter injury. Loesch A, et al. **J Anat** 1997 Jan;190 (Pt 1):93–104

Complications of extraperitoneal balloon dilation. Adams JB 2nd, et al. **J Endourol** 1996 Aug;10(4):375–8

Penetration of the interatrial septum: a rare complication of percutaneous transluminal mitral commissurotomy. Tseng CD, et al. **J Formos Med Assoc** 1997 Apr;96(4):272–5

Rupture of mitral valve annulus after mitral balloon valvotomy: a case report. Ressia L, et al. **J Heart Valve Dis** 1997 Jan;6(1):74–6

Persistence of left atrial spontaneous echocardiographic contrast after percutaneous mitral valvulotomy: a study in the Turkish population. Sarikamis C, et al. **J Heart Valve Dis** 1997 Mar;6(2):160–5

Somatostatin receptor expression in rat iliac arteries after balloon injury. Chen JC, et al. **J Invest Surg** 1997 Jan–Apr; 10(1–2):17–23

The regulation of p42/p44 mitogen-activated protein kinases in the injured rat carotid artery. Lille S, et al. **J Surg Res** 1997 Jul 1;70(2):178–86

Influence of technique of percutaneous tract creation on incidence of renal hemorrhage. Davidoff R, et al. **J Urol** 1997 Apr;157(4):1229–31

Fogarty and percutaneous transluminal coronary angioplasty balloon injury induce comparable damage to the arterial wall but lead to different healing responses. Doornekamp FN, et al. **J Vasc Surg** 1996 Nov;24(5):843–50

Fibrin glue containing fibroblast growth factor type 1 and heparin with autologous endothelial cells reduces intimal hyperplasia in a canine carotid artery balloon injury model. Zarge JI, et al. **J Vasc Surg** 1997 May;25(5):840–8; discussion 848–9

Direct carotid cavernous fistula after trigeminal balloon microcompression gangliolysis: case report [letter; comment] Brown JA. **Neurosurgery** 1997 Apr;40(4):886. Comment on: Neurosurgery 1996 Oct;39(4):853–5; discussion 855–6.

Increased non-angiotensin II [125I]CGP 42112 binding in rat carotid artery after balloon injury. Viswanathan M, et al. **Peptides** 1996;17(4):695–9

Increased endothelin ET(A) receptor expression in rat carotid arteries after balloon injury. Viswanathan M, et al. **Peptides** 1997;18(2):247–55

In vivo inhibition of platelet adhesion by a cGMP-mediated mechanism in balloon catheter injured rat carotid artery. Vemulapalli S, et al. **Pharmacology** 1996 Apr;52(4):235–42

Laparoscopic closure of esophageal perforation following pneumatic dilatation for achalasia. Report of two cases. Bell RC. **Surg Endosc** 1997 May;11(5):476–8 (10 ref.)

Induction in labour in mid-trimester pregnancy with small balloon catheters [letter] Joosten GP. **Trop Doct** 1997 Oct; 27(4):253

[Non-surgical ventricular training before arterial switch. Focus on an animal model in lambs] Bonnet D, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):707–12 (Eng. Abstr.) **(Fre)**

[Late complications of percutaneous closure of atrial septal defects with the Sideris occluder] Lambert V, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):245–51 (Eng. Abstr.) **(Fre)**

[Complete heart block after percutaneous mitral valvotomy with Inoue balloon] Evora PR, et al. **Arq Bras Cardiol** 1996 Mar;66(3):149–52 (Eng. Abstr.) **(Por)**

INSTRUMENTATION

Transcatheter closure of patent ductus arteriosus using controlled-release coils. Celiker A, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):500–5

CT arterial portography and CT arteriography with a triple-lumen balloon catheter. Murakami T, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):553–7

Influence of guiding catheter selection on the measurement of coronary flow reserve. Abizaid A, et al. **Am J Cardiol** 1997 Mar 1;79(5):703–4

Prospective randomized comparison of stonetome combination catheter versus conventional endoscopic clearance of common bile duct. Dean RS, et al. **Am J Gastroenterol** 1997 Jul;92(7):1121–4

Acid infusion does not affect intraesophageal balloon distention-induced sensory and pain thresholds [see comments] DeVault KR. **Am J Gastroenterol** 1997 Jun; 92(6):947–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):919–20.

Critical incident with gum elastic bougie [letter; comment] Baker AB. **Anaesth Intensive Care** 1996 Apr;24(2):284. Comment on: Anaesth Intensive Care 1995 Oct;23(5):654.

Independent placement of a bronchial blocker for single-lung ventilation: an alternative method for the difficult airway. Harvey SC, et al. **Anesth Analg** 1996 Dec;83(6):1330–1

An easier method of ascertaining whether the balloon catheter is ruptured [letter; comment] Arthur A, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):214. Comment on: Cathet Cardiovasc Diagn 1996 May;38(1):102–3.

Internal mammary arteriography without selective cannulation using a new balloon occlusion catheter [see comments] Berger SR, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):198–202. Comment in: Cathet Cardiovasc Diagn 1996 Oct;39(2):203.

Percutaneous balloon pericardiotomy: a case report and analysis of mechanism of action [see comments] Bertrand O, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):180–2. Comment in: Cathet Cardiovasc Diagn 1996 Jun;38(2):183.

Whither pericardial fluid? [editorial; comment] Block PC. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):183. Comment on: Cathet Cardiovasc Diagn 1996 Jun;38(2):180–2.

New technique using temporary balloon occlusion for

transcatheter closure of patent ductus arteriosus with Gianturco coils. Dalvi B, et al.
Cathet Cardiovasc Diagn 1997 May;41(1):62–70

Concept of the homemade coronary stent: experimental results and initial clinical experience [see comments] De Scheerder IK, et al. **Cathet Cardiovasc Diagn** 1996 Oct; 39(2):191–6. Comment in: Cathet Cardiovasc Diagn 1996 Oct;39(2):197.

Unsuccessful deflation of a bifoil balloon during percutaneous mitral valvuloplasty. Patel TM, et al.
Cathet Cardiovasc Diagn 1996 Mar;37(3):290–2

An alternative to the football helmet [letter] Crausman RS, et al. **Chest** 1997 Jun;111(6):1786–7

Porous balloon delivery of low molecular weight heparin in the dog coronary artery. Baumbach A, et al.
Eur Heart J 1996 Oct;17(10):1538–45

Percutaneous balloon mitral valvotomy in mitral restenosis. Gupta S, et al. **Eur Heart J** 1996 Oct;17(10):1560–4

Transcatheter closure of patent ductus arteriosus with the Rashkind occluder. Acute results and angiographic follow-up in adults. Sievert H, et al. **Eur Heart J** 1997 Jun;18(6):1014–8

Percutaneous mitral commissurotomy. Vahanian A.
Eur Heart J 1996 Oct;17(10):1465–9 (22 ref.)

Endopyelotomy with the Acucise cutting balloon device. Early clinical experience. Gelet A, et al. **Eur Urol** 1997; 31(4):389–93

PEGS: buttons, balloons, and mushrooms [letter; comment] Harary AM. **Gastrointest Endosc** 1997 Jun;45(6):538–40. Comment on: Gastrointest Endosc 1996 Sep;44(3):230–4.

Biliary balloon dilation using a triple-lumen balloon catheter. Jacob H, et al. **Gastrointest Endosc** 1996 Oct;44(4):465–8

High- and low-compliance balloon dilators in patients with achalasia: a randomized prospective comparative trial. Muehldorfer SM, et al. **Gastrointest Endosc** 1996 Oct; 44(4):398–403

Induction of thrombolysis and prevention of thrombus formation by local drug delivery with a double-occlusion balloon catheter. Tomaru T, et al. **Heart Vessels** 1996; 11(3):123–32

Predicting air-balloon and water-filled infant catheter frequency responses. Hartford CG, et al.
IEEE Eng Med Biol Mag 1997 May-Jun;16(3):27–33

Concurrent balloon dilatation of mitral and tricuspid stenosis during pregnancy using an Inoue balloon. Bahl VK, et al.
Int J Cardiol 1997 Apr 18;59(2):199–202

The use of a Sengstaken-Blakemore tube to control post-partum hemorrhage. Chan C, et al.
Int J Gynaecol Obstet 1997 Aug;58(2):251–2

Management of undeflatable Foley catheter balloons in women. Gülmez I, et al.
Int Urogynecol J Pelvic Floor Dysfunct 1997;8(2):81–4 (25 ref.)

Endoscopic detection of submucosal guidewire placement during percutaneous dilatational tracheostomy [letter] Goldrick PB, et al. **Intensive Care Med** 1996 Nov; 22(11):1276

Pharyngeal coin removal in children. Mason SM.
J Accid Emerg Med 1997 May;14(3):175–6

Endometrial ablation with a thermal balloon for the treatment of menorrhagia. Vilos GA, et al.
J Am Assoc Gynecol Laparosc 1996 May;3(3):383–7

An extraperitoneal burch procedure: a case report. Karabacak O, et al. **J Laparoendosc Surg** 1996 Feb;6(1):65–8

Use of Foley catheter to examine estrogenized hymens for evidence of sexual abuse. Persaud DI, et al.
J Pediatr Adolesc Gynecol 1997 May;10(2):83–5

Re: Fogarty catheter extraction of unusual urethral foreign bodies [letter; comment] Geraniotis EG. **J Urol** 1997 Jan; 157(1):268. Comment on: J Urol 1996 Apr;155(4):1374–5.

Effects of vascular stent surface area and hemodynamics on intimal thickening [see comments] Newman VS, et al.
J Vasc Interv Radiol 1996 May-Jun;7(3):387–93. Comment in: J Vasc Interv Radiol 1996 Nov-Dec;7(6):948–9.

Comparison of arterial wall reaction after passage of the Hydrolyser device versus a thrombectomy balloon in an animal model. van Ommen VG, et al.
J Vasc Interv Radiol 1996 May-Jun;7(3):451–4

Percutaneous mitral valvotomy with a metal dilatator [letter] Cribier A, et al. **Lancet** 1997 Jun 7;349(9066):1667

Heart-valve dilator [letter] Treasure T. **Lancet** 1997 Aug 16; 350(9076):524

Ehlers-Danlos syndrome with a spontaneous caroticocavernous fistula occluded by detachable balloon: case report and review of literature. Forlodou P, et al.
Neuroradiology 1996 Aug;38(6):595–7 (16 ref.)

Axon and ganglion cell injury in rabbits after percutaneous trigeminal balloon compression. Brown JA, et al.
Neurosurgery 1996 May;38(5):993–1003; discussion 1003–4

Direct carotid cavernous fistula after trigeminal balloon microcompression gangliolysis: case report [see comments] Kuether TA, et al. **Neurosurgery** 1996 Oct;39(4):853–5; discussion 855–6. Comment in: Neurosurgery 1997 Apr;40(4):886.

Percutaneous retrieval of a fractured biliary guidewire from a reduced liver graft. Khong PL, et al. **Pediatr Radiol** 1997 Mar;27(3):253–4

Endoscopic balloon-assisted abdominoplasty [letter] O'Brien JJ, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1462–3

Diagnosis and treatment of sinusitis by YAMIK sinus catheters. Kozlov VS, et al. **Rhinology** 1996 Jun;34(2):123–4

Thoracoscopic enucleation of an esophageal leiomyoma with balloon dilator assistance. Mafune K, et al. **Surg Today** 1997;27(2):189–92

Deflation techniques for faulty Foley catheter balloons: presentation of a cystoscopic technique. Williams JC, et al. **Tech Urol** 1996 Fall;2(3):174–7

Small balloon catheters in the induction of labour in mid-trimester pregnancy. Li ZX. **Trop Doct** 1996 Oct; 26(4):171–2

Impaction of Sengstaken-Blakemore tube--a rare complication. Sarwal R, et al. **Trop Gastroenterol** 1996 Oct-Dec;17(4):221–2

[Treatment of ureteral stenosis using high pressure dilatation catheters] de la Taille A, et al. **Prog Urol** 1997 Jun; 7(3):408–14 (Eng. Abstr.) **(Fre)**

[Double balloon catheter for facilitating (laparoscopic) choledochus drainage] Rechner J, et al. **Chirurg** 1996 Dec; 67(12):1266–9 (Eng. Abstr.) **(Ger)**

[Thromboembolectomy with the Fogarty catheter in acute ischemia of the upper extremities] Hernandez-Richter T, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:897–8 (Eng. Abstr.) **(Ger)**

[Lacrimal duct recanalization with balloon catheter] Hermeking H, et al. **Ophthalmologe** 1997 Jan;94(1):45–9 (Eng. Abstr.) **(Ger)**

[Experimental experiences with balloon-shaped capsular sac implantation with reference to accommodation outcome in intraocular lenses] Hettlich HJ, et al. **Ophthalmologe** 1996 Feb;93(1):73–5 (Eng. Abstr.) **(Ger)**

[Insertion of autografts after acute damage of the common carotid artery. Experimental microvascular anastomoses after balloon dilatation] Friedrich RE, et al.
Unfallchirurgie 1997 Feb;23(1):1–9 (Eng. Abstr.) **(Ger)**

[A case of bladder calculus due to a ruptured balloon fragment of a Foley catheter] Ohashi H.
Hinyokika Kiyo 1997 Mar;43(3):227–8 (Eng. Abstr.) **(Jpn)**

[Balloon-occluded intraarterial infusion therapy for advanced uterine cervical cancer: usefulness of four-lumen double balloon catheter] Yamamoto K, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1997 May; 57(6):341–3 (Eng. Abstr.) **(Jpn)**

[Endoscopic treatment of late-stage cardiospasm] Sotnikov VN, et al. **Klin Med (Mosk)** 1996;74(4):65 **(Rus)**

METHODS

Double-balloon dilatation of a stenosed bioprosthetic tricuspid valve in repaired tetralogy of Fallot. Benito F, et al. **Am Heart J** 1996 Oct;132(4):891–2

Balloon occlusion delivery technique for closure of patent ductus arteriosus. Berdjis F, et al. **Am Heart J** 1997 May; 133(5):601–4

Percutaneous balloon dilatation of cor triatriatum sinister. Kerkar P, et al. **Am Heart J** 1996 Oct;132(4):888–91

Local intracoronary heparin delivery with a microporous balloon catheter. Thomas CN, et al. **Am Heart J** 1996 Nov; 132(5):969–72

Usefulness of atrial septostomy as a treatment for primary pulmonary hypertension and guidelines for its application. Rich S, et al. **Am J Cardiol** 1997 Aug 1;80(3):369–71

Quantitative image analysis of cell proliferation after balloon catheter injury in the rabbit carotid artery. Robert C, et al. **Anal Quant Cytol Histol** 1995 Dec;17(6):366–73

Review article: endovascular treatments for intracranial aneurysms. Byrne J. **Br J Radiol** 1996 Oct;69(826):891–9 (86 ref.)

Percutaneous transluminal angioplasty of the internal carotid artery [letter; comment] Brown MM, et al. **Br J Surg** 1997 May;84(5):729–30. Comment on: Br J Surg 1996 Sep;83(9):1171–3.

Technique for rapid control of bleeding from an aortoenteric fistula. Loftus IM, et al. **Br J Surg** 1997 Aug;84(8):1114

Sengstaken tube for bleeding rectal angiodysplasia [see comments] [published erratum appears in Br J Surg 1996 Oct;83(10):1477] Roy MK, et al. **Br J Surg** 1996 Aug; 83(8):1111. Comment in: Br J Surg 1996 Dec;83(12):1795.

The removal of a stone from an ileal conduit using a balloon catheter. Muto A, et al. **Br J Urol** 1997 Sep;80(3):489

Effect of the balloon-anulus ratio on the intermediate and follow-up results of pulmonary balloon valvuloplasty. Narang R, et al. **Cardiology** 1997 May-Jun;88(3):271–6

Transseptal mitral balloon valvotomy in patients with atrial septal aneurysms. Rittoo D, et al. **Cardiology** 1997 May-Jun;88(3):300–4

Per oral balloon sialoplasty: results in the treatment of salivary duct stenosis. Brown AL, et al.
Cardiovasc Intervent Radiol 1997 Sep-Oct;20(5):337–42

Dialysis grafts arterial plug: retrieval using the tulip sheath device in vitro. Sharafuddin MJ, et al.
Cardiovasc Intervent Radiol 1997 Mar-Apr;20(2):154–8

Percutaneous mitral valvuloplasty with the Inoue technique in a patient with heavily calcified interatrial septum. Alfonso F, et al. **Cathet Cardiovasc Diagn** 1996 Sep; 39(1):82–4

Tricuspid balloon valvuloplasty: can the balloon be floated into the right ventricle? [letter; comment] [see comments] Bhargava B, et al. **Cathet Cardiovasc Diagn** 1996 Jul; 38(3):333–4. Comment on: Cathet Cardiovasc Diagn 1996 Jan;37(1):86–8. Comment in: Cathet Cardiovasc Diagn 1997 Mar;40(3):333–4.

Percutaneous balloon mitral valvuloplasty by the transseptal technique in patients with membranous obstruction of the inferior vena cava [letter; comment] Cheng TO.
Cathet Cardiovasc Diagn 1996 Mar;37(3):350. Comment on: Cathet Cardiovasc Diagn 1995 Nov;36(3):291–2.

Percutaneous balloon mitral valvuloplasty: the why, the when, the what, and the which [editorial] Cheng TO.
Cathet Cardiovasc Diagn 1996 Mar;37(3):353–4

Atrial septal puncture for balloon mitral valvotomy [letter] Chow WH, et al. **Cathet Cardiovasc Diagn** 1995 Dec; 36(4):380

Valve perforation and balloon pulmonary valvuloplasty in an infant with tetralogy of Fallot and pulmonary atresia. Kuhn MA, et al. **Cathet Cardiovasc Diagn** 1997 Apr; 40(4):403–6; discussion 407

Immediate and long-term results of the splinting for acute closure trial. Little T, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):341–4

New technique for prepping the Johnson & Johnson stent delivery system. Logemann TN, et al.
Cathet Cardiovasc Diagn 1997 Aug;41(4):440–1

Specifics of technique in percutaneous mitral commissurotomy in a case of dextrocardia and situs inversus with mitral stenosis. Nallet O, et al.
Cathet Cardiovasc Diagn 1996 Sep;39(1):85–8

Crossing of mitral orifice with the inoue Balloon: the "straight-balloon" technique [letter] Patel TM, et al.
Cathet Cardiovasc Diagn 1996 Feb;37(2):231–2

Inoue balloon tricuspid valvuloplasty: it is time to subject different techniques to microscopic scrutiny [letter; comment] Patel TM, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):333–4. Comment on: Cathet Cardiovasc Diagn 1996 Jul;38(3):333–4.

Distortion of Palmaz-Schatz stent geometry following side-branch balloon dilation through the stent in a rabbit model. Pomerantz RM, et al. **Cathet Cardiovasc Diagn** 1997 Apr;40(4):422–6

Balloon pulmonary valvuloplasty [letter; comment] Rao PS. **Cathet Cardiovasc Diagn** 1997 Apr;40(4):427–30. Comment on: Cathet Cardiovasc Diagn 1996 Nov;39(3):236–43. Comment on: Cathet Cardiovasc Diagn 1996 Nov;39(3):244–5.

Balloon mitral valvuloplasty: selection of the technique [letter; comment] Stefanadis C, et al.
Cathet Cardiovasc Diagn 1995 Dec;36(4):375–7. Comment on: Cathet Cardiovasc Diagn 1995 Jun;35(2):91–100.

Single-stage balloon valvuloplasty for critical pulmonary valve stenosis in the neonate. Thanopoulos B, et al.
Cathet Cardiovasc Diagn 1997 Mar;40(3):322–5

Percutaneous balloon pericardiotomy for the treatment of large, nonmalignant pericardial effusions in children: immediate and medium-term results. Thanopoulos BD, et al. **Cathet Cardiovasc Diagn** 1997 Jan;40(1):97–100

A radiological approach to the through and through technique for percutaneous passage of ureteric strictures [see comments] Kwok PC, et al. **Clin Radiol** 1996 Dec; 51(12):879–81. Comment in: Clin Radiol 1997 Aug;52(8):636.

Case report: successful treatment of bleeding jejunal varices using mesoportal recanalization and stent placement: report of a case and review of the literature. Stafford Johnson DB, et al. **Clin Radiol** 1997 Jul;52(7):562–5 (17 ref.)

Endoscopic dilation of rectal strictures: a prospective study of 18 cases. Johansson C. **Dis Colon Rectum** 1996 Apr; 39(4):423–8

Successful retrograde dilation and oesophageal conservation after failed antegrade management of a reflux stricture. O'Sullivan GC, et al. **Endoscopy** 1997 Feb;29(2):141

Endoscopic biliopancreatic balloon dilation. Tytgat GN, et al. **Endoscopy** 1996 May;28(4):367–71 (25 ref.)

Time to bid farewell to surgical mitral commissurotomy? [editorial] Tan K, et al. **Eur Heart J** 1996 Sep;17(9):1304–5

Balloon mitral commissurotomy: an intraoperative assessment. Gupta R, et al. **Eur J Cardiothorac Surg** 1996; 10(8):666–70

Repositioning of a misplaced ureteral stent with a balloon catheter: technical note. Ilgit ET, et al. **Eur J Radiol** 1997 May;24(3):257–9

Balloon dilation of pyloric stenosis [letter] Hemphill DJ, et al. **Gastrointest Endosc** 1996 Nov;44(5):630–1

Successful endoscopic dilation of a Crohn's colonic stricture [letter] Kaila VL, et al. **Gastrointest Endosc** 1996 Sep; 44(3):359–60

The rule of three in esophageal dilation [letter] Langdon DF. **Gastrointest Endosc** 1997 Jan;45(1):111

Inflation and positioning of the gastric balloon of a Sengstaken-Blakemore tube under ultrasonographic control [letter] Lock G, et al. **Gastrointest Endosc** 1997 Jun;45(6):538

Esophageal dilation in the sitting, sedated patient is safe and effective [letter] Waring JP, et al. **Gastrointest Endosc** 1996 Dec;44(6):759–60

Percutaneous balloon mitral commissurotomy during pregnancy. Ben Farhat M, et al. **Heart** 1997 Jun;77(6):564–7

Percutaneous balloon dilatation of the atrial septum: immediate and midterm results. Thanopoulos BD, et al. **Heart** 1996 Dec;76(6):502–6

The treatment of gastric varices by a balloon-occluded retrograde transvenous obliteration; a transjugular venous approach. Saeki H, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):571–4

Noncoronary Cardiac Interventions. The first report of the Noncoronary Cardiac Interventions Registry of India, the Cardiological Society of India. Bahl VK, et al.
Indian Heart J 1997 Jan-Feb;49(1):97–101

Palliative blade-balloon atrial septostomy in primary pulmonary hypertension. Fulwani M, et al. **Indian Heart J** 1997 Mar-Apr;49(2):185-6

Percutaneous balloon aortic valvuloplasty with anterograde crossing of aortic valve. Shah C, et al. **Indian Heart J** 1995 Sep-Oct;47(5):495-6

Dilatation of radiation-induced esophageal strictures under sublingual buprenorphine analgesia: a pilot study. Desai DC, et al. **Indian J Gastroenterol** 1997 Jan;16(1):14-5

Esophageal dilation in pediatric patients using balloon along the side of the endoscope [see comments] Nanivadekar SA, et al. **Indian J Gastroenterol** 1996 Jan;15(1):14-5. Comment in: Indian J Gastroenterol 1996 Jul;15(3):112; discussion 113. Comment in: Indian J Gastroenterol 1996 Jul;15(3):112-3.

Improvisation of indigenous pneumatic dilator [letter] Nijhawan S, et al. **Indian J Gastroenterol** 1997 Jul;16(3):119

Esophageal dilatation using balloon alongside endoscope [letter; comment] Prasad AV. **Indian J Gastroenterol** 1996 Jul;15(3):112-3. Comment on: Indian J Gastroenterol 1996 Jan;15(1):14-5.

Esophageal dilatation using balloon alongside endoscope [letter; comment] Singh WC, et al. **Indian J Gastroenterol** 1996 Jul;15(3):112; discussion 113. Comment on: Indian J Gastroenterol 1996 Jan;15(1):14-5.

Congenital stenosis of isolated pulmonary vein: role of retrograde pulmonary vein catheterization. Bahl VK, et al. **Int J Cardiol** 1997 Jun 27;60(1):103-5

How to do a mitral valvuloplasty. Vahanian A. **Int J Cardiol** 1996 Jul 5;55(1):1-7 (10 ref.)

Atrial septostomy under transesophageal guidance in a patient with primary pulmonary hypertension and absent right superior vena cava. Unger P, et al. **Intensive Care Med** 1996 Dec;22(12):1410-1

Four-year follow-up of patients undergoing percutaneous balloon mitral commissurotomy. A report from the National Heart, Lung, and Blood Institute Balloon Valvuloplasty Registry. Dean LS, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1452-7

Percutaneous removal of a surgically inserted intra-aortic balloon catheter. Tovar EA. **J Card Surg** 1996 Jul-Aug; 11(4):304-6

Isolated pelvic perfusion for inoperable advanced tumors: hyperthermic or hypoxic perfusion? De Simone M, et al. **J Chemother** 1997 Apr;9(2):138-9

Balloon mitral commissurotomy in a patient with situs inversus and dextrocardia. Chow WH, et al. **J Heart Valve Dis** 1996 May;5(3):307-8

A balloon pumping technique for treatment of internal derangement of the temporomandibular joint. Sasaki K. **J Oral Maxillofac Surg** 1997 Sep;55(9):947-52

Successful endoscopic balloon dilatation for hypertrophic pyloric stenosis. Ogawa Y, et al. **J Pediatr Surg** 1996 Dec; 31(12):1712-4

Percutaneous dilatational versus conventional open tracheotomy in a growing animal: a study in goats. van Heurn LW, et al. **J Pediatr Surg** 1996 Nov;31(11):1512-5

A method for management of extraperitoneal pelvic bleeding secondary to penetrating trauma. Gonzalez RP, et al. **J Trauma** 1997 Aug;43(2):338-41

Retrograde treatment of ureteropelvic junction obstruction using the ureteral cutting balloon catheter [see comments] Faerber GJ, et al. **J Urol** 1997 Feb;157(2):454-8. Comment in: J Urol 1997 Feb;157(2):467-8.

Percutaneous treatment of a collapsed stent-graft. Ahmad AA, et al. **J Vasc Interv Radiol** 1997 Jul-Aug;8(4):637-9

Update on the use of percutaneous nephrostomy/balloon dilation for the treatment of renal transplant leak/obstruction. Fontaine AB, et al. **J Vasc Interv Radiol** 1997 Jul-Aug;8(4):649-53

Use of a precurved vascular sheath for common bile duct intervention [letter] Forauer AR, et al. **J Vasc Interv Radiol** 1997 Sep-Oct;8(5):897-8

Prolonged dilation improves an unsatisfactory primary result of femoropopliteal artery angioplasty: usefulness of a perfusion balloon catheter. Manninen HI, et al. **J Vasc Interv Radiol** 1997 Jul-Aug;8(4):627-32

Percutaneous balloon-assisted aspiration thrombectomy of clotted hemodialysis access grafts. Sharafuddin MJ, et al. **J Vasc Interv Radiol** 1996 Mar-Apr;7(2):177-83

Randomised trial of endoscopic balloon dilation versus endoscopic sphincterotomy for removal of bileduct stones [see comments] Bergman JJ, et al. **Lancet** 1997 Apr 19; 349(9059):1124-9. Comment in: Lancet 1997 Apr 19;349(9059):1114-5.

Balloon ripening of the cervix [letter] Lurie S, et al. **Lancet** 1997 Feb 15;349(9050):509

Endoscopic balloon dilatation of biliary sphincter for removing bileduct stones [comment] Westaby D. **Lancet** 1997 Apr 19;349(9059):1114-5. Comment on: Lancet 1997 Apr 19;349(9059):1124-9.

Stents with high-pressure balloon inflations and intravascular ultrasonography--applicable in all patients? [editorial; comment] Berger PB. **Mayo Clin Proc** 1997 Feb; 72(2):185-7. Comment on: Mayo Clin Proc 1997 Feb;72(2):101-11.

Ripening of the unfavorable cervix with extraamniotic catheter balloon: clinical experience and review. Sherman DJ, et al. **Obstet Gynecol Surv** 1996 Oct;51(10):621-7 (24 ref.)

Balloon dacryocystoplasty: an alternative treatment for obstructed tear ducts. Liermann D, et al. **Ophthalmologica** 1996;210(6):319-24

Balloon dilatation of the pulmonary valve in a patient with pulmonary atresia and intact ventricular septum using a commercially available radiofrequency catheter. Akagi T, et al. **Pediatr Cardiol** 1997 Jan-Feb;18(1):61-3

Carotid artery approach to balloon aortic valvuloplasty in infants with critical aortic valve stenosis. Maeno Y, et al. **Pediatr Cardiol** 1997 Jul-Aug;18(4):288-91

Endoscopic dilation of acquired tracheobronchial stenosis in infants. Messineo A, et al. **Pediatr Pulmonol** 1997 Feb; 23(2):101-4

Percutaneous therapy of structural heart disease: pediatric disease. Verma R, et al. **Prog Cardiovasc Dis** 1997 Jul-Aug; 40(1):37-54 (70 ref.)

Technically demanding Inoue-balloon mitral commissurotomy: broadened indications for the procedure. Lau KW, et al. **Singapore Med J** 1996 Feb;37(1):34-8

Percutaneous balloon valvuloplasty in mitral restenosis after previous surgical commissurotomy. Lee CY, et al. **Singapore Med J** 1995 Oct;36(5):474-8

Endoscopic hydrostatic balloon dilation of ulcer-induced pyloric stenosis in rheumatoid arthritis and secondary amyloidosis. Hizawa K, et al. **Surg Endosc** 1997 Jun; 11(6):673-5

Balloon dissection of the space of Bogros via the femoral canal for total extraperitoneal laparoscopic herniorrhaphy. Read RC, et al. **Surg Endosc** 1997 Jun;11(6):687-92

Laparoscopic splenectomy aided by balloon occlusion of the splenic artery: report of a case. Yamashita H, et al. **Surg Laparosc Endosc** 1996 Aug;6(4):326-9

[Diagnosis and therapy of hypertension with renal artery stenosis (letter; comment)] van de Ven PJ, et al. **Ned Tijdschr Geneeskd** 1997 Jan 4;141(1):65-6. Comment on: Ned Tijdschr Geneeskd 1996 Oct 26;140(43):2109-12. **(Dut)**

[Value of detachable silicone balloon in the closure of coronary artery fistula. Apropos of 3 cases] Godart F, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):611-6 (28 ref.) (Eng. Abstr.) **(Fre)**

[Placing of a Nitiol Memotherm prosthesis: personal experience] Wery D, et al. **J Belge Radiol** 1996 Nov; 79(5):223-6 (Eng. Abstr.) **(Fre)**

[First Lebanese series of percutaneous mitral commissurotomies] Ghanem G, et al. **J Med Liban** 1995; 43(2):58-61 (Eng. Abstr.) **(Fre)**

[Microcirculation of the nasal mucosa during use of balloon tamponade] Klinger M, et al. **Laryngorhinootologie** 1997 Mar;76(3):127-30 (Eng. Abstr.) **(Ger)**

[Percutaneous removal of displaced metal stents in TIPS] Textor HJ, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):288-92 (Eng. Abstr.) **(Ger)**

[Interventional cardiology in pediatrics] Pfammatter JP. **Schweiz Rundsch Med Prax** 1997 Apr 23;86(17):693-9 (35 ref.) (Eng. Abstr.) **(Ger)**

[Modified technique for dilatation of pulmonary valve stenosis (nearly atresia) in a neonate] Rubino A, et al. **G Ital Cardiol** 1996 Dec;26(12):1425-30 (Eng. Abstr.) **(Ita)**

[Dilatation of benign colo-colonic and colo-rectal anastomotic stenosis with radiology-guided balloon catheter] Meloni GB, et al. **Radiol Med (Torino)** 1996 Jul-Aug;92(1-2):97-100 (Eng. Abstr.) **(Ita)**

[Comparative study between inoue single balloon and double balloon in percutaneous mitral valvuloplasty. Immediate results and after 1 year follow-up] Cardoso LF, et al. **Arq Bras Cardiol** 1996 Apr;66(4):213-6 (Eng. Abstr.) **(Por)**

[Percutaneous mitral valvuloplasty with the single balloon technique. Short-term results, complications and in-hospital follow-up (see comments)] Peixoto EC, et al. **Arq Bras Cardiol** 1996 May;66(5):267-73 (Eng. Abstr.). Comment in: Arq Bras Cardiol 1996 May;66(5):275-6. **(Por)**

[An arteriosinusal anastomosis between the middle meningeal artery and the cavernous sinus. Its surgical treatment using the balloon catheter] Iakovlev SB. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr-Jun; (2):31-3 (19 ref.) **(Rus)**

[Esophageal stenosis in children. Management with dilatation techniques (part II)] Arbelo TF, et al. **Acta Gastroenterol Latinoam** 1995;25(5):295-300 (28 ref.) **(Spa)**

[Coronary angioplasty simultaneous with the "kissing" technique in a bifurcation lesion: use of a guidewire, and 2 monorail systems of rapid interchange] Escudero X. **Arch Inst Cardiol Mex** 1996 May-Jun;66(3):265-8 (Eng. Abstr.) **(Spa)**

[National registry of percutaneous mitral commissurotomy. 8-year's experience] Ledesma Velasco M, et al. **Arch Inst Cardiol Mex** 1996 May-Jun;66(3):244-53 (Eng. Abstr.) **(Spa)**

[Percutaneous mitral commissurotomy using Inoue's balloon during pregnancy] Murillo H, et al. **Arch Inst Cardiol Mex** 1996 Jul-Aug;66(4):350-5 (Eng. Abstr.) **(Spa)**

UTILIZATION

Retention balloon catheters and barium enemas: attitudes, current practice and relative safety in the UK. Blakeborough A, et al. **Clin Radiol** 1997 Jan;52(1):62-4

[Percutaneous pulmonary valvuloplasty with balloon catheter in a patient with severe pulmonary stenosis. First case carried out in Panamá] Domínguez B, et al. **Rev Med Panama** 1996 Jan-May;21(1-2):30-8 (Eng. Abstr.) **(Spa)**

VETERINARY

A comparison of N-butylscopolammonium bromide and butorphanol tartrate for analgesia using a balloon model of abdominal pain in ponies. Boatwright CE, et al. **Can J Vet Res** 1996 Jan;60(1):65-8

BALLOON DILATATION, CORONARY ARTERY see **ANGIOPLASTY, TRANSLUMINAL, PERCUTANEOUS CORONARY**

BALLOON TAMPONADE see **BALLOON DILATATION**

BALLOON VALVOTOMY see **BALLOON DILATATION**

BALLOON VALVULOPLASTY see **BALLOON DILATATION**

BALNEOLOGY

see related
HEALTH RESORTS
MINERAL WATERS

Psoriasis treatment: bathing in a thermal lagoon combined with UVB, versus UVB treatment only [published erratum appears in Acta Derm Venereol 1997 May;77(3):253] Olafsson JH, et al. **Acta Derm Venereol** 1996 May; 76(3):228-30

Changes of some sulphuric thermal water characteristics due to chlorination. Senta A, et al. **Arh Hig Rada Toksikol** 1996 Dec;47(4):369-80

Bioclimatology at the Dead Sea in Israel. Abels DJ, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):653-8 (41 ref.)

Mineral water and spas in Italy. Andreassi L, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):627-32 (16 ref.)

Dermatologic aspects of mineral water. Bernstein JE. **Clin Dermatol** 1996 Nov-Dec;14(6):567-9 (12 ref.)

The influence of mineral water solutions in phototherapy. Boer J. **Clin Dermatol** 1996 Nov-Dec;14(6):665-73 (48 ref.)

The spa and sexually transmitted diseases. Freedman D, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):577-82 (34 ref.)

Immunologic aspects: immunology of mineral water spas. Ghersetich I, et al. **Clin Dermatol** 1996 Nov-Dec; 14(6):563-6 (36 ref.)

Mineral water and spas in Korea. Hann SK. **Clin Dermatol** 1996 Nov-Dec;14(6):633-5

Mineral water and spas in France. Karam P. **Clin Dermatol** 1996 Nov-Dec;14(6):607-10 (21 ref.)

The Blue Lagoon in Iceland and psoriasis. Olafsson JH. **Clin Dermatol** 1996 Nov-Dec;14(6):647-51 (16 ref.)

Spa therapy in Poland. Omulecki A, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):679-83 (15 ref.)

Mineral water and spas in Portugal. Picoto A. **Clin Dermatol** 1996 Nov-Dec;14(6):637-9

Spa therapy in Bulgaria. Tsankov NK, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):675-8 (11 ref.)

Mineral water and spas in Israel. Wolf R. **Clin Dermatol** 1996 Nov-Dec;14(6):619-26

Balneotherapy and platelet glutathione metabolism in type II diabetic patients. Ohtsuka Y, et al. **Int J Biometeorol** 1996 Sep;39(3):156-9

Demographic evaluation of successful antipsoriatic climatotherapy at the Dead Sea (Israel) DMZ Clinic. Harari M, et al. **Int J Dermatol** 1997 Apr;36(4):304-8

Indications, contraindications and possible side-effects of climatotherapy at the Dead-Sea. Shani J, et al. **Int J Dermatol** 1997 Jul;36(7):481-92 (47 ref.)

Skin microcirculation during tapwater iontophoresis in humans: cathode stimulates more than anode. Berliner MN. **Microvasc Res** 1997 Jul;54(1):74-80

[Phototherapy associated with salt baths] Pfister HR, et al. **Ann Dermatol Venereol** 1996;123(6-7):414-6 **(Fre)**

[Bath additives in dermatologic balneotherapy. Indications and approaches in current research] Schempp CM, et al. **Hautarzt** 1996 Dec;47(12):894-900 (49 ref.) (Eng. Abstr.) **(Ger)**

[Balneophotochemotherapy of lichen ruber. Personal results and comparison with photochemotherapy modalities employed up to now] von Kobyletzki G, et al. **Hautarzt** 1997 May;48(5):323-7 (Eng. Abstr.) **(Ger)**

[Balneophotochemotherapy with 8-methoxypsoralen in lichen sclerosis et atrophicus] von Kobyletzki G, et al. **Hautarzt** 1997 Jul;48(7):488-91 (Eng. Abstr.) **(Ger)**

[Crenotherapy in sports medicine: the state of the art] Grassi M, et al. **Clin Ter** 1996 Dec;147(12):645-52 (Eng. Abstr.) **(Ita)**

[Acute myocardial infarction and cerebral infarction at Kusatsu-spa] Kubota K, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):23-9 (Eng. Abstr.) **(Jpn)**

[Inpatient rehabilitation with balneotherapy in the elderly--our experience over the last 10 years] Kurabayashi H, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb;34(2):135-8 (Eng. Abstr.) **(Jpn)**

[Psychosomatic changes during female climacteric and balneologic treatment] San Martín Bacaicoa J. **An R Acad Nac Med (Madr)** 1997;114(1):129-42; discussion 142-4 **(Spa)**

[Lars-Otto Dandenell, rehabilitation physician in Tranås: spas and thermal baths strengthen both body and soul] Landquist A. **Lakartidningen** 1997 Jun 25;94(26-27):2441-2 **(Swe)**

ECONOMICS

The cost of psoriasis treatment at the Dead Sea [letter] Weinrauch L. **Int J Dermatol** 1996 Feb;35(2):150-1

HISTORY

The temple of health. A pictorial history of the Battle Creek Sanitarium. Gerstner P. **Caduceus** 1996 Autumn;12(2):1-99

Mineral water and spas in the United States. Benedetto AV, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):583-600 (76 ref.)

Balneology, mineral water, and spas in historical perspective. Routh HB, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):551-4 (35 ref.)

Mineral water and spas in Bulgaria. Vassileva S. **Clin Dermatol** 1996 Nov-Dec;14(6):601-5 (16 ref.)

The treatment of rheumatoid arthritis in this century: from spas to monoclonal antibodies. Pasero G. **Clin Exp Rheumatol** 1997 May-Jun;15 Suppl 17:S67-70

[The "Tractatus de balneis Germaniae" by Caspar Schober (around 1530). On the status of early balneology in Germany between mineral source analysis and corresponding reports] Fürbeth F. **Sudhoffs Arch Z Wissenschaftsgesch** 1996;80(2):150-66 (Eng. Abstr.) **(Ger)**

[In memory of Miklós Frank, M.D.] Rácz E. **Orv Hetil** 1996 Nov 17;137(46):2585 **(Hun)**

[Czar Peter and and balneology] Kolankowski Z. **Arch Hist Med (Warsz)** 1972;35(4):465-8 **(Pol)**

[The 75th anniversary of the Tomsk Research Institute of Health Resort Medicine and Physiotherapy] Levitskiĭ EF, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May-Jun; (3):54-5 **(Rus)**

[Anniversaries in health resort medicine] Semenov BN. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov-Dec; (6):51-3 **(Rus)**

METHODS

Rheumatologic aspects of mineral water. Fabiani D, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):571-5 (21 ref.)

Mineral water and spas in Spain. Ledo E. **Clin Dermatol** 1996 Nov-Dec;14(6):641-6 (19 ref.)

Climatotherapy at the Dead Sea in Jordan. Oumeish OY. **Clin Dermatol** 1996 Nov-Dec;14(6):659-64 (12 ref.)

Mineral water and spas in Germany. Titzmann T, et al. **Clin Dermatol** 1996 Nov-Dec;14(6):611-3 (7 ref.)

[Phototherapy associated with salt baths] Pfister HR, et al. **Ann Dermatol Venereol** 1996;123(6-7):414-6 **(Fre)**

[Hydrotherapy in thermal facilities in Belgium] Juchmes J, et al. **J Belge Med Phys Rehabil** 1980;3(1):33-45 **(Fre)**

[The role of physical balneological factors in the treatment of occupational diseases] Oranskiĭ IE, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep-Oct;(5):35-7 (Eng. Abstr.) **(Rus)**

BALNEOTHERAPY see **BALNEOLOGY**

BALO'S DISEASE see **ENCEPHALITIS PERIAXIALIS**

BALSAMS

ADMINISTRATION & DOSAGE

Can oral challenge with balsam of Peru predict possible benefit from a low-balsam diet? Veien NK, et al. **Am J Contact Dermat** 1996 Jun;7(2):84-7

BAMBERMYCINS

ADMINISTRATION & DOSAGE

Effect of probiotic supplementation on growth, nitrogen utilisation and serum cholesterol in broilers. Mohan B, et al. **Br Poult Sci** 1996 May;37(2):395-401

BIOSYNTHESIS

Isolation and analysis of moenomycin and its biosynthetic intermediates from Streptomyces ghanaensis (ATCC 14672) wildtype and selected mutants. Subramaniam-Niehaus B, et al. **Z Naturforsch [C]** 1997 Mar-Apr;52(3-4):217-26

CHEMISTRY

Characterisation of antibiotic moenomycin A interaction with phospholipid model membranes. Volke F, et al. **Chem Phys Lipids** 1997 Feb 28;85(2):115-23

ISOLATION & PURIFICATION

Isolation and analysis of moenomycin and its biosynthetic intermediates from Streptomyces ghanaensis (ATCC 14672) wildtype and selected mutants. Subramaniam-Niehaus B, et al. **Z Naturforsch [C]** 1997 Mar-Apr;52(3-4):217-26

METABOLISM

Characterisation of antibiotic moenomycin A interaction with phospholipid model membranes. Volke F, et al. **Chem Phys Lipids** 1997 Feb 28;85(2):115-23

BANANA see **FRUIT**

BANCROFTIAN ELEPHANTIASIS see **ELEPHANTIASIS, FILARIAL**

BAND 3 PROTEIN

[Erythrocyte anion exchanger, band epsilon protein: structure and function] Hamasaki N. **Nippon Rinsho** 1996 Mar; 54(3):618-24 (23 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

Axial distribution of band 3-positive intercalated cells in the collecting duct of control and ammonium chloride-loaded rabbits. Verlander JW, et al. **Kidney Int Suppl** 1996 Dec; 57:S137-47

BIOSYNTHESIS

Human erythroid band 3 "anion exchanger 1" is expressed in transformed lymphocytes [published erratum appears in Cell Mol Biol (Noisy-le-grand) 1997 Jun;43(4):607] Kay MM, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):945-52

CHEMISTRY

Flow cytometric analysis of band 3 protein of human erythrocytes. Stoya G, et al. **Acta Histochem** 1997 Mar; 99(1):29-36

Reaction of ozone with protein tryptophans: band III, serum albumin, and cytochrome C. Mudd JB, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):143-9

Glycosylation of multiple extracytosolic loops in Band 3, a model polytopic membrane protein. Tam LY, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):645-8

Restriction by ankyrin of band 3 rotational mobility in human erythrocyte membranes and reconstituted lipid vesicles. Che A, et al. **Biochemistry** 1997 Aug 5;36(31):9588-95

Self-association of Band 3, the human erythrocyte anion exchanger, in detergent solution. Vince JW, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):295-306

In vitro properties and organ uptake of rat band 3 cross-linked erythrocytes. Jordán JA, et al. **Biochimie** 1997; 79(1):53-61

The orientation of eosin-5-maleimide on human erythrocyte band 3 measured by fluorescence polarization microscopy. Blackman SM, et al. **Biophys J** 1996 Jul;71(1):194-208

Hydrodynamic examination of the dimeric cytoplasmic domain of the human erythrocyte anion transporter, band 3. Cölfen H, et al. **Biophys J** 1996 Sep;71(3):1611-5

Increased rotational mobility and extractability of band 3 from protein 4.2-deficient erythrocyte membranes: evidence of a role for protein 4.2 in strengthening the band 3-cytoskeleton linkage. Rybicki AC, et al. **Blood** 1996 Oct 1;88(7):2745-53

Implications of aging- and degeneration-related changes in anion exchange proteins for the maintenance of neuronal homeostasis. Bosman GJ, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):905-18

Structure-function relationships of band 3 variants. Bruce LJ, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):953-73 (137 ref.)

Band 3 protein: physiology, function and structure. Hamasaki N, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):1025-39 (57 ref.)

Transport-related conformational states of the band 3 protein: probing with 1-fluoro-2,4-dinitrobenzene. Ruffing W, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):1097-118

Structure of the band 3 transmembrane domain. Vince JW, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):1041-51 (56 ref.)

Structure and function of the band 3 Cl-/HCO3- transporter in chronic respiratory failure patients. Yang X, et al. **Chin Med J (Engl)** 1996 Sep;109(9):680-3

Associations between erythrocyte band 3 protein and aldolase in detergent solution. Determining their stoichiometry by analytical ultracentrifugation. Huber E, et al. **Eur J Biochem** 1996 Dec 1;242(2):293-300

Mapping the ends of transmembrane segments in a polytopic membrane protein. Scanning N-glycosylation mutagenesis of extracytosolic loops in the anion exchanger, band 3. Popov M, et al. **J Biol Chem** 1997 Jul 18;272(29):18325-32

Complementation studies with Co-expressed fragments of the human red cell anion transporter (Band 3; AE1). The role of some exofacial loops in anion transport. Wang L, et al. **J Biol Chem** 1997 Apr 18;272(16):10631-8

Gel filtration chromatographic studies of the isolated membrane domain of band 3. Salhany JM, et al. **Mol Membr Biol** 1997 Apr-Jun;14(2):71-9

Expression and characterization of the human erythrocyte anion exchanger in a baculovirus/Sf-9 cell system. Dale WE, et al. **Protein Expr Purif** 1996 Feb;7(1):1-11

[Molecular defects of erythrocyte membrane proteins] Storozhok SA, et al. **Vopr Med Khim** 1996 Apr-Jun; 42(2):103-10 (73 ref.) **(Rus)**

DRUG EFFECTS

Se-mediated domain-domain communication in band 3 of human erythrocytes. Yang FY, et al. **Biol Trace Elem Res** 1996 Dec;55(3):279-95

GENETICS

Modulation of clinical expression and band 3 deficiency in hereditary spherocytosis. Alloisio N, et al. **Blood** 1997 Jul 1;90(1):414-20

Characterization of 13 novel band 3 gene defects in hereditary spherocytosis with band 3 deficiency. Jarolim P, et al. **Blood** 1996 Dec 1;88(11):4366-74

Identification of the proximal erythroid promoter region of the mouse anion exchanger gene. Sahr KE, et al. **Blood** 1996 Dec 15;88(12):4500-9

A variant of the EPB3 gene of the anti-Lepore type in hereditary spherocytosis. Bianchi P, et al. **Br J Haematol** 1997 Aug;98(2):283-8

Heterogenous band 3 deficiency in hereditary spherocytosis related to different band 3 gene defects. Dhermy D, et al. **Br J Haematol** 1997 Jul;98(1):32-40

Novel band 3 variants (bands 3 Foggia, Napoli I and Napoli II) associated with hereditary spherocytosis and band 3 deficiency: status of the D38A polymorphism within the EPB3 locus. Miraglia del Giudice E, et al. **Br J Haematol** 1997 Jan;96(1):70-6

Deletion of twenty seven nucleotides within exon 11 of the band 3 gene identified in ovalocytosis in Lombok Island, Indonesia. Alimsardjono H, et al. **Jpn J Hum Genet** 1997 Mar;42(1):233-6

Functional cell surface expression of the anion transport domain of human red cell band 3 (AE1) in the yeast Saccharomyces cerevisiae. Groves JD, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12245-50

A Thr552 —>Ile substitution in erythroid band 3 gives rise to the Warrior blood group antigen. Jarolim P, et al. **Transfusion** 1997 Apr;37(4):398-405

IMMUNOLOGY

Induction of band 3 aggregation in erythrocytes results in anti-band 3 autoantibody binding to the carbohydrate epitopes of band 3. Ando K, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):250-7

Poly-N-acetyllactosaminyl saccharide chains of band 3 as determinants for anti-band 3 autoantibody binding to senescent and oxidized erythrocytes. Beppu M, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):1007-24 (95 ref.)

Tissue homeostatic role of naturally occurring anti-band 3 antibodies. Lutz HU, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):995-1005 (79 ref.)

Infection of C3HeB/FeJ mice with the docile strain of lymphocytic choriomeningitis virus induces autoantibodies specific for erythrocyte Band 3. Mazza G, et al. **Immunology** 1997 Jun;91(2):239-45

Characterization of selected GPA, GPA and GPB, and/or Band 3 MAbs. Moulds MK, et al. **Transfus Clin Biol** 1997; 4(1):89

Coordinator's report: glycophorin/band 3 and associated antigens. Reid ME, et al. **Transfus Clin Biol** 1997;4(1):57-64

Characterization of monoclonal antibodies in section 2B using enzymes and variant red blood cells. Reid ME, et al. **Transfus Clin Biol** 1997;4(1):65-8

Anti-Di(b) as a red cell autoantibody. Issitt PD, et al. **Transfusion** 1996 Sep;36(9):802-4

Blood group antigens Rb(a), Tr(a), and Wd(a) are located in the third ectoplasmic loop of erythroid band 3. Jarolim P, et al. **Transfusion** 1997 Jun;37(6):607-15

METABOLISM

Effect of probenecid on the transport of methyl mercury in erythrocytes by the organic anion transport system. Wu G. **Arch Toxicol** 1997;71(4):218-22

Tyrosine phosphorylation of band 3 protein in Ca2+/A23187-treated human erythrocytes. Minetti G, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):445-50

Erythrophagocytosis and its relation to band 3 clustering in chronic myelogenous leukemia. Das AK, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):539-45

Cytoplasmic disposition of aspartate 821 in anion exchanger from human erythrocytes. Erickson HK. **Biochemistry** 1997 Aug 19;36(33):9958-67

Source of transport site asymmetry in the band 3 anion exchange protein determined by NMR measurements of external Cl- affinity. Liu D, et al. **Biochemistry** 1996 Dec 3;35(48):15228-35

Three different actions of phenylglyoxal on band 3 protein-mediated anion transport across the red blood cell membrane. Gärtner EM, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):208-22

Cytoskeleton-membrane connections in the human erythrocyte membrane: band 4.1 binds to tetrameric band 3 protein. von Rückmann B, et al. **Biochim Biophys Acta** 1997 Apr 26;1325(2):226-34

Recognition of poly-N-acetyllactosaminyl saccharide chains on iron-oxidized erythrocytes by human monocytic leukemia cell line THP-1 differentiated into macrophages. Beppu M, et al. **Biol Pharm Bull** 1996 Feb;19(2):188-94

Transmembrane Ca2+ gradient is essential for high anion

transport activity of human erythrocytes. Tu YP, et al. **Biosci Rep** 1996 Aug;16(4):299–311

Identification of the major casein kinase I phosphorylation sites on erythrocyte band 3. Wang CC, et al. **Blood** 1997 Apr 15;89(8):3019–24

Anion exchanger 1 (band 3) is required to prevent erythrocyte membrane surface loss but not to form the membrane skeleton. Peters LL, et al. **Cell** 1996 Sep 20; 86(6):917–27

Special issue: Band 3 anion transporters in health and disease. Dedicated to Dr. Joseph R. Goodman on his 85th birthday. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):905–1118

A role for the anion exchanger AE1 (band 3 protein) in cell volume regulation. Garcia-Romeu F, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):985–94 (29 ref.)

Posttranslational modifications of brain and erythrocyte band 3 during aging and disease [published erratum appears in Cell Mol Biol (Noisy-le-grand) 1997 May;43(3):469] Kay MM, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):919–44

Transport-related conformational states of the band 3 protein: probing with 1-fluoro-2,4-dinitrobenzene. Ruffing W, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):1097–118

Allosteric effects in stilbenedisulfonate binding to band 3 protein (AE1). Salhany JM. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):1065–96 (107 ref.)

Chemical labelling of arginyl-residues involved in anion transport mediated by human band 3 protein and some aspects of its location in the peptide chain. Zaki L, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):1053–63

The Lyn-catalyzed Tyr phosphorylation of the transmembrane band-3 protein of human erythrocytes. Brunati AM, et al. **Eur J Biochem** 1996 Sep 1;240(2):394–9

Associations between erythrocyte band 3 protein and aldolase in detergent solution. Determining their stoichiometry by analytical ultracentrifugation. Huber E, et al. **Eur J Biochem** 1996 Dec 1;242(2):293–300

Identification and characterization of a substrate specific for the T cell protein tyrosine kinase ZAP-70. Watts JD, et al. **FEBS Lett** 1996 Dec 2;398(2–3):217–22

Erythrocyte thiol status regulates band 3 phosphotyrosine level via oxidation/reduction of band 3-associated phosphotyrosine phosphatase. Zipser Y, et al. **FEBS Lett** 1997 Apr 7;406(1-2):126–30

Brain and erythrocyte anion transporter protein, band 3, as a marker for Alzheimer's disease: structural changes detected by electron microscopy, phosphorylation, and antibodies. Kay MM, et al. **Gerontology** 1997;43(1-2):44–66

Modulation of band 3-ankyrin interaction by protein 4.1. Functional implications in regulation of erythrocyte membrane mechanical properties. An XL, et al. **J Biol Chem** 1996 Dec 27;271(52):33187–91

Mapping of ankyrin binding determinants on the erythroid anion exchanger, AE1. Ding Y, et al. **J Biol Chem** 1996 Sep 13;271(37):22494–8

Mapping the ends of transmembrane segments in a polytopic membrane protein. Scanning N-glycosylation mutagenesis of extracytosolic loops in the anion exchanger, band 3. Popov M, et al. **J Biol Chem** 1997 Jul 18;272(29):18325–32

Complementation studies with Co-expressed fragments of the human red cell anion transporter (Band 3; AE1). The role of some exofacial loops in anion transport. Wang L, et al. **J Biol Chem** 1997 Apr 18;272(16):10631–8

Association of the band 3 protein with a volume-activated, anion and amino acid channel: a molecular approach. Motais R, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):361–7 (54 ref.)

Electrogenic sulfate/chloride exchange in Xenopus oocytes mediated by murine AE1 E699Q. Chernova MN, et al. **J Gen Physiol** 1997 Mar;109(3):345–60

Effects of external pH on substrate binding and on the inward chloride translocation rate constant of band 3. Liu SQ, et al. **J Gen Physiol** 1996 Feb;107(2):271–91

Effects of external pH on binding of external sulfate, 4,4-dinitro-stilbene-2,2'-disulfonate (DNDS), and chloride to the band 3 anion exchange protein. Liu SQ, et al. **J Gen Physiol** 1996 Feb;107(2):293–306

Anion-selectivity of the swelling-activated osmolyte channel in eel erythrocytes. Lewis RA, et al. **J Membr Biol** 1996 Jan;149(2):103–11

A role for erythrocyte band 3 degradation by the parasite gp76 serine protease in the formation of the parasitophorous vacuole during invasion of erythrocytes by Plasmodium falciparum. Roggwiller E, et al. **Mol Biochem Parasitol** 1996 Nov 12;82(1):13–24

Gel filtration chromatographic studies of the isolated membrane domain of band 3. Salhany JM, et al. **Mol Membr Biol** 1997 Apr-Jun;14(2):71–9

Expression and characterization of the human erythrocyte anion exchanger in a baculovirus/Sf-9 cell system. Dale WE, et al. **Protein Expr Purif** 1996 Feb;7(1):1–11

[The effect of furosemide and valium on band 3 protein anion transport function in chronic respiratory failure patients] Yang X, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Dec; 18(6):369–71, 384 (Eng. Abstr.) **(Chi)**

[Effect of erythrocyte membranes and tubulin on the activity of NAD-dependent dehydrogenases] Shcherbatova NA, et al. **Biokhimiia** 1996 Aug;61(8):1512–25 (Eng. Abstr.) **(Rus)**

[Study of structural transitions in erythrocyte membranes during hereditary hemochromatosis] Akoev VR, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):279–84 **(Rus)**

PHARMACOLOGY

T-helper 1 dominated responses to erythrocyte Band 3 in NZB mice. Shen CR, et al. **Immunology** 1996 Oct; 89(2):195–9

PHYSIOLOGY

Role of band 3 in homeostasis and cell shape. Jay DG. **Cell** 1996 Sep 20;86(6):853–4 (12 ref.)

Band 3 protein: physiology, function and structure. Hamasaki N, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):1025–39 (57 ref.)

Structure and function of the band 3 Cl-/HCO3- transporter in chronic respiratory failure patients. Yang X, et al. **Chin Med J (Engl)** 1996 Sep;109(9):680–3

Plasmodium falciparum gametocyte adhesion to C32 cells via CD36 is inhibited by antibodies to modified band 3. Rogers NJ, et al. **Infect Immun** 1996 Oct;64(10):4261–8

Targeted disruption of the murine erythroid band 3 gene results in spherocytosis and severe haemolytic anaemia despite a normal membrane skeleton. Southgate CD, et al. **Nat Genet** 1996 Oct;14(2):227–30

Physiology: The acid test for band 3 [news] Tanner MJ. **Nature** 1996 Jul 18;382(6588):209–10

The human anion transport protein, band 3, contains a CD36-like binding domain for Plasmodium falciparum-infected erythrocytes. Crandall I, et al. **Parasitology** 1996 Mar;112 (Pt 3):261–7

ULTRASTRUCTURE

Distance between Cys-201 in erythrocyte band 3 and the bilayer measured by single-photon radioluminescence [published erratum appears in Biophys J 1997 Mar;72(3):1481] Thevenin BJ, et al. **Biophys J** 1996 Nov; 71(5):2645–55

BANDAGES

Calcium alginate dressings promote healing of split skin graft donor sites. O'Donoghue JM, et al. **Acta Chir Plast** 1997; 39(2):53–5

Re: An unusual artifact [letter; comment] Feinstein RS, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):278. Comment on: AJR Am J Roentgenol 1995 Aug;165(2):485–6.

Using the pressure patch to treat corneal abrasions [letter; comment] Alper BS. **Am Fam Physician** 1997 Feb 1; 55(2):442. Comment on: Am Fam Physician 1996 Jun;53(8):2521–9, 2532.

Patellar taping in the treatment of patellofemoral pain--a prospective randomized study [letter; comment] Cameron MH. **Am J Sports Med** 1997 May-Jun;25(3):417. Comment on: Am J Sports Med 1996 Jan-Feb;24(1):61–6.

The effect of exercise, prewrap, and athletic tape on the maximal active and passive ankle resistance of ankle inversion. Manfroy PP, et al. **Am J Sports Med** 1997 Mar-Apr;25(2):156–63

Effects of finger and wrist taping on grip strength. Rettig AC, et al. **Am J Sports Med** 1997 Jan-Feb;25(1):96–8

Residual throat pack--a further method of prevention [letter] Burden RJ, et al. **Anaesthesia** 1997 Aug;52(8):806

A dressing for 'road rash' [letter] La Hausse-Brown TP, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):154

Long-term vascular access devices. Fulton JS. **Annu Rev Nurs Res** 1997;15:237–62

Should we patch corneal erosions? Arbour JD, et al. **Arch Ophthalmol** 1997 Mar;115(3):313–7

The clinical diagnosis and results of conservative treatment of knee distortion injury. Viljakka T. **Arch Orthop Trauma Surg** 1997;116(1–2):6–9

Comparative clinical efficacy and tolerability of oxerutins and horse chestnut extract in patients with chronic venous insufficiency. Rehn D, et al. **Arzneimittelforschung** 1996 May;46(5):483–7

Investigation of the efficacy of oxerutins compared to placebo in patients with chronic venous insufficiency treated with compression stockings. Unkauf M, et al. **Arzneimittelforschung** 1996 May;46(5):478–82

Increase of LBNP tolerance using elastic compression stockings. Melchior FM, et al. **Aviat Space Environ Med** 1996 Dec;67(12):1161–5

Water vapour transmission rates in burns and chronic leg ulcers: influence of wound dressings and comparison with in vitro evaluation. Wu P, et al. **Biomaterials** 1996 Jul; 17(14):1373–7

Effects of intermittent pneumatic compression on venous haemodynamics and fibrinolytic activity. Christen Y, et al. **Blood Coagul Fibrinolysis** 1997 Apr;8(3):185–90

A systematic review of compression treatment for venous leg ulcers. Fletcher A, et al. **BMJ** 1997 Sep 6; 315(7108):576–80

Low molecular weight heparin associated with spinal anaesthesia and gradual compression stockings in total hip replacement surgery. Arar Study Group. Samama CM, et al. **Br J Anaesth** 1997 Jun;78(6):660–5

Plasma concentrations of tumour necrosis factor-alpha and interleukin-6 during burn wound surgery or dressing. Papini RP, et al. **Br J Plast Surg** 1997 Jul;50(5):354–61

Role of ankle taping and bracing in the athlete. Callaghan MJ. **Br J Sports Med** 1997 Jun;31(2):102–8 (64 ref.)

Ankle taping improves proprioception before and after exercise in young men. Robbins S, et al. **Br J Sports Med** 1995 Dec;29(4):242–7

Knee-length versus thigh-length graduated compression stockings in the prevention of deep vein thrombosis. Williams AM, et al. **Br J Surg** 1996 Nov;83(11):1553

Direct measurement of cutaneous pressures generated by pressure garments. Giele HP, et al. **Burns** 1997 Mar; 23(2):137–41

Silicone net and Hypafix as a dressing for skin grafts [letter] Platt AJ, et al. **Burns** 1996 Sep;22(6):505

Use of patient-controlled analgesia with alfentanil for burns dressing procedures: a preliminary report of five patients. Sim KM, et al. **Burns** 1996 May;22(3):238–41

Quantitative microbiology in the management of burn patients. II. Relationship between bacterial counts obtained by burn wound biopsy culture and surface alginate swab culture, with clinical outcome following burn surgery and change of dressings. Steer JA, et al. **Burns** 1996 May; 22(3):177–81

Honey dressing versus boiled potato peel in the treatment of burns: a prospective randomized study. Subrahmanyam M. **Burns** 1996 Sep;22(6):491–3

Staples and gamgee for securing large-area burns dressings. Sylaidis P. **Burns** 1996 Sep;22(6):488–9

Graduated compression stocking prevents hypotension during spinal anaesthesia [letter] Iwama H. **Can J Anaesth** 1996 Sep;43(9):984–5

Speech and velopharyngeal function in children with an open residual cleft in the hard palate, and the influence of temporary covering. Lohmander-Agerskov A, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):324–32

Importance of dressing removal before radiolabeled WBC imaging for musculoskeletal infection. Ghesani M, et al. **Clin Nucl Med** 1996 Jul;21(7):537–40

Effects of compression bandaging on leg pulsatile blood flow. Mayrovitz HN, et al. **Clin Physiol** 1997 Jan;17(1):105–17

Inefficacy of collagen shields in the rabbit corneal wound-healing process. Callizo J, et al. **Cornea** 1996 May; 15(3):258–62

Treatment of vulvar varicosities by injection-compression sclerotherapy. Ninia JG. **Dermatol Surg** 1997 Jul; 23(7):573–4; discussion 574–5

Effects of medical elastic compression stockings on interface pressure and edema prevention. Veraart JC, et al. **Dermatol Surg** 1996 Oct;22(10):867–71

To dress or not to dress surgical wounds? Patients' attitudes to wound care after major abdominal operations. Persson M, et al. **Eur J Surg** 1995 Nov;161(11):791–3; discussion 794

The influence of dressings on venous ulcer healing--a randomised trial. Stacey MC, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):174–9

Analysis of cryotherapy penetration: a comparison of the plaster cast, synthetic cast, Ace wrap dressing, and Robert-Jones dressing. Weresh MJ, et al. **Foot Ankle Int** 1996 Jan;17(1):37–40

Deep venous thrombosis prophylaxis with low molecular weight heparin and elastic compression in patients having total hip replacement. A randomised controlled trial. Kalodiki EP, et al. **Int Angiol** 1996 Jun;15(2):162–8

A study of the advantages of elastic stockings for leg lymphedema. Yasuhara H, et al. **Int Angiol** 1996 Sep; 15(3):272–7

Influence of medical compression stockings on venolymphatic drainage in phlebologically healthy test persons and patients with chronic venous insufficiency. Lentner A, et al. **Int J Microcirc Clin Exp** 1996 Nov-Dec; 16(6):320–4

A comparison of intermittent calf compression and enoxaparin for thromboprophylaxis in total hip replacement. A pilot study. Stone MH, et al. **Int Orthop** 1996;20(6):367–9

Central venous catheter infections: concepts and controversies [letter; comment] Arrowsmith M. **Intensive Care Med** 1997 Mar;23(3):358–9. Comment on: Intensive Care Med 1995 Feb;21(2):177–83.

"Veno-Press"--a new sequential intermittent pneumatic device for the prevention of perioperative deep vein thrombosis. Zelikovski A, et al. **Isr J Med Sci** 1996 Dec; 32(12):1335–7

Local infections at cannula site [letter] Birkinshaw R, et al. **J Accid Emerg Med** 1997 May;14(3):199

Surgical pearl: easy and (usually) painless removal of adhesive dressings. Haas AF, et al. **J Am Acad Dermatol** 1997 Jul;37(1):114–5

Management of 219 consecutive cases of postcatheterization pseudoaneurysm. Schaub F, et al. **J Am Coll Cardiol** 1997 Sep;30(3):670–5

Recent developments of collagen-based materials for medical applications and drug delivery systems. Rao KP. **J Biomater Sci Polym Ed** 1995;7(7):623–45 (67 ref.)

Intermittent pneumatic compression prophylaxis for proximal deep venous thrombosis after total hip replacement. Woolson ST. **J Bone Joint Surg Am** 1996 Nov; 78(11):1735–40

Graded compression stockings for the prevention of deep-vein thrombosis [letter; comment] Kalodiki E, et al. **J Bone Joint Surg Br** 1997 May;79(3):507–8. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):550–4.

A review of wound healing and wound dressing products.

Hanna JR, et al. **J Foot Ankle Surg** 1997 Jan–Feb; 36(1):2–14; discussion 79 (39 ref.)

Bacterial recolonization of the skin under a polyurethane drape in hip surgery. Fleischmann W, et al. **J Hosp Infect** 1996 Oct;34(2):107–16

An audit of peripheral catheter care in a teaching hospital [see comments] Nelson RR, et al. **J Hosp Infect** 1996 Jan; 32(1):65–9. Comment in: J Hosp Infect 1996 Jun;33(2):156–7. Comment in: J Hosp Infect 1996 Jul;33(3):225–6.

Multidex Gel for use in wound care. McFadden EA. **J Pediatr Nurs** 1997 Apr;12(2):125

Management of giant omphalocele by progressive external compression: case report. Belloli G, et al. **J Pediatr Surg** 1996 Dec;31(12):1719–20

External compression as initial management of giant omphaloceles. DeLuca FG, et al. **J Pediatr Surg** 1996 Jul; 31(7):965–7

A semipermeable skin dressing for extremely low birth weight infants. Donahue ML, et al. **J Perinatol** 1996 Jan–Feb;16(1):20–6

Opsite skin closure in day case paediatric surgery: is a subcuticular suture necessary? [letter; comment] Bainbridge LC. **J R Coll Surg Edinb** 1996 Dec;41(6):424–5. Comment on: J R Coll Surg Edinb 1995 Dec;40(6):386–7.

Deep vein thrombosis in lumbar spinal fusion: a prospective study of antiembolic and pneumatic compression stockings. Nelson LD Jr, et al. **J South Orthop Assoc** 1996 Fall; 5(3):181–4

Prevention of deep–vein thrombosis after major spinal surgery: a comparison study of external devices. Wood KB, et al. **J Spinal Disord** 1997 Jun;10(3):209–14

Re: Pathogenesis and prophylaxis of postoperative thromboembolic disease in urological pelvic surgery and Prospective randomized trial of warfarin and intermittent pneumatic leg compression as prophylaxis for postoperative deep venous thrombosis in major urological surgery [letter; comment] Pitts WR Jr. **J Urol** 1997 Aug;158(2):553. Comment on: J Urol 1995 Jun;153(6):1763–74.

Inelastic versus elastic leg compression in chronic venous insufficiency: a comparison of limb size and venous hemodynamics. Spence RK, et al. **J Vasc Surg** 1996 Nov; 24(5):783–7

Randomised trial of effect of compression stockings in patients with symptomatic proximal–vein thrombosis [see comments] Brandjes DP, et al. **Lancet** 1997 Mar 15; 349(9054):759–62. Comment in: ACP J Club 1997 Sep–Oct;127(2):35.

A convenient and efficient moldable dressing for skin grafts. Ducic Y, et al. **Laryngoscope** 1997 Jul;107(7):954–6

Venous thromboembolism during pregnancy [letter; comment] Sandison AJ, et al. **N Engl J Med** 1996 Dec 12;335(24):1846–7; discussion 1847. Comment on: N Engl J Med 1996 Jul 11;335(2):108–14.

Retained gauze in the sinonasal cavities: plain film and CT findings. Pekanan P, et al. **Neuroradiology** 1996 May; 38(4):381–2

The Unna's boot as a treatment for venous ulcers. Barr DM. **Nurse Pract** 1996 Jul;21(7):55–6, 61–4, 71–2 passim; quiz 76–7 (53 ref.)

Comparison of central venous catheter dressings in bone marrow transplant recipients. Brandt B, et al. **Oncol Nurs Forum** 1996 Jun;23(5):829–36

Elastic net secures facial dressing comfortably. Myers JS, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1484

Pressure patching for corneal abrasions [letter; comment] Hirst LW. **Ophthalmology** 1997 Feb;104(2):169; discussion 170. Comment on: Ophthalmology 1995 Dec;102(12):1936–42.

A comparison of pressure patching versus no patching for corneal abrasions due to trauma or foreign body removal. Corneal Abrasion Patching Study Group [see comments] Kaiser PK. **Ophthalmology** 1995 Dec;102(12):1936–42. Comment in: Ophthalmology 1997 Feb;104(2):169; discussion 170. Comment in: Ophthalmology 1997 Feb;104(2):169–70.

Pressure patching for corneal abrasions [letter; comment] Schechter BA. **Ophthalmology** 1997 Feb;104(2):169–70. Comment on: Ophthalmology 1995 Dec;102(12):1936–42.

Technique for promoting healing of complex tracheostomy wounds. Hotter AN, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):693–5

Ferric sulfate versus dilute formocresol in pulpotomized primary molars: long–term follow up. Fuks AB, et al. **Pediatr Dent** 1997 Jul–Aug;19(5):327–30

A simple, rapid, reproducible tie–over dressing. Amir A, et al. **Plast Reconstr Surg** 1996 Nov;98(6):1092–4

Use of a soft denture liner as a protective dressing for alveolar bone grafting [letter] Cheng CA, et al. **Plast Reconstr Surg** 1997 Jul;100(1):275–6

An easy method for scalp injury dressing with the patient's own hair [letter] de la Cruz M. **Plast Reconstr Surg** 1997 Jun;99(7):2116–7

A simple postoperative stent dressing after nipple–areola reconstruction [letter] Papay FA, et al. **Plast Reconstr Surg** 1997 May;99(6):1787–8

Reston: an alternate method of skin graft fixation [letter] Saltz R, et al. **Plast Reconstr Surg** 1997 Feb;99(2):601–2

A new dressing design for use with maggot therapy. Sherman RA. **Plast Reconstr Surg** 1997 Aug;100(2):451–6

Increase of surface dose using wound dressings during percutaneous radiotherapy with photons and electrons. Thilmann C, et al. **Radiother Oncol** 1996 Aug;40(2):181–4

Intra–operative pneumatic tourniquet––perceptions of use and complications in the orthopaedic community of South Africa. Gibson AS, et al. **S Afr Med J** 1996 Oct; 86(10):1281–4

Immediate external compression in the management of an acute muscle injury. Thorsson O, et al. **Scand J Med Sci Sports** 1997 Jun;7(3):182–90

Synthetic wound dressings––evaluation of interactions with epithelial and dermal cells in vitro. Wollina U, et al. **Skin Pharmacol** 1996;9(1):35–42

Plasma human atrial natriuretic peptide under compression therapy in patients with chronic venous insufficiency with or without cardiac insufficiency. Galm O, et al. **Vasa** 1996; 25(1):48–53

[Chronic venous insufficiency––from pathophysiology to therapy. 1: Pathophysiology––compression treatment––systemic pharmacotherapy] Peschen M, et al. **Fortschr Med** 1996 Sep 20;114(26):315–8 (0 ref.) (Eng. Abstr.) **(Ger)**

[Dynamic in vivo skin pressure measurement in quality control of compression stockings] Jünger M, et al. **Hautarzt** 1997 Jul;48(7):471–6 (Eng. Abstr.) **(Ger)**

[Temperature changes of the cornea by applying an eye bandage] Schrage NF, et al. **Ophthalmologe** 1997 Jul; 94(7):492–5 (Eng. Abstr.) **(Ger)**

[The color Doppler–guided compression therapy of pseudoaneurysms. The authors' own experiences and a review of the literature] Oelerich M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):484–90 (34 ref.) (Eng. Abstr.) **(Ger)**

[Sports–induced acute epicondylitis of the elbow and conservative therapy] Förster KK, et al. **Sportverletz Sportschaden** 1997 Mar;11(1):16–20 (Eng. Abstr.) **(Ger)**

[Effectiveness of outer stability aids on rotational stability of the ankle joints] Müller CC, et al. **Sportverletz Sportschaden** 1996 Dec;10(4):84–7 (Eng. Abstr.) **(Ger)**

[Proprioceptive capacity of the knee joint area in patients after rupture of the anterior cruciate ligament] Jerosch J, et al. **Unfallchirurg** 1996 Nov;99(11):861–8 (Eng. Abstr.) **(Ger)**

[Properties and acceptance of Melolin wound dressing in postoperative management of male urethral reconstruction] Schumacher S, et al. **Urologe A** 1996 Jan;35(1):14–7 (Eng. Abstr.) **(Ger)**

[Modification of the flexibility of the upper and lower ankle joint by medical compression stockings] Lentner A, et al. **Vasa** 1996;25(1):60–4 (Eng. Abstr.) **(Ger)**

[Dry and moist wound treatment of burns] Krenzer–Scheidemantel G. **Zentralbl Chir** 1996;121 Suppl:92–4 **(Ger)**

[Treatment of skin lesions with Katogel] Ricci E. **Minerva Chir** 1996 May;51(5):369–75 (Eng. Abstr.) **(Ita)**

[Two therapeutic models in venous leg ulcers are compared: better results with optimized compression] Olofsson B, et al. **Lakartidningen** 1996 Dec 18;93(51–52):4752–4 **(Swe)**

ADVERSE EFFECTS

Trauma and throat packs [letter; comment] Emmanuel ER. **Anaesthesia** 1997 Jul;52(7):718–9. Comment on: Anaesthesia 1997 Feb;52(2):190.

Trauma and throat packs [letter; comment] Marfin AG, et al. **Anaesthesia** 1997 Jul;52(7):718. Comment on: Anaesthesia 1997 Feb;52(2):190.

Prevention of trauma associated with throat pack insertion [letter] [see comments] Parry MG, et al. **Anaesthesia** 1997 Feb;52(2):190. Comment in: Anaesthesia 1997 Jul;52(7):718. Comment in: Anaesthesia 1997 Jul;52(7):718–9.

Allergic contact dermatitis to adhesive tape and contrived disease. Dwyer P, et al. **Australas J Dermatol** 1997 Aug; 38(3):141–4

Four–layer compression bandaging [letter] Price M. **Br J Dermatol** 1996 Oct;135(4):653–4

Compartment syndrome [letter; comment] Venkatesh R, et al. **Br J Urol** 1996 Dec;78(6):964–5. Comment on: Br J Urol 1996 May;77(5):750–1. Comment on: Br J Urol 1996 May;77(5):752–3.

Retained vaginal gauze with unusual complication: a case report. Wu CC, et al. **Chang Keng I Hsueh** 1997 Mar; 20(1):62–5

Dressing wound care with less skin irritation [letter] Foltz R. **Geriatrics** 1996 Oct;51(10):14

Primary cutaneous aspergillosis: case report and review of the literature. Larkin JA, et al. **Infect Control Hosp Epidemiol** 1996 Jun;17(6):365–6

Fractures of the forearm complicated by palsy of the anterior interosseous nerve caused by a constrictive dressing. A report of four cases. Casey PJ, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):122–4

Local reactions to a chlorhexidine gluconate–impregnated antimicrobial dressing in very low birth weight infants. Garland JS, et al. **Pediatr Infect Dis J** 1996 Oct; 15(10):912–4

ECONOMICS

Once–daily wound cleansing and dressing change: efficacy and cost. Sheridan RL, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):139–40

STANDARDS

Back to basics: choosing the correct wound dressing. Walker D. **Am J Nurs** 1996 Sep;96(9):35–9

'Vecafix' dressings for peripheral venous catheters [letter; comment] Goddard SV, et al. **J Hosp Infect** 1996 Jul; 33(3):225–6. Comment on: J Hosp Infect 1996 Jan;32(1):65–9.

VETERINARY

Comparison of bandaging and elevation of the claw for the treatment of foot lameness in dairy cows. Pyman MF. **Aust Vet J** 1997 Feb;75(2):132–5

BANDAGES, OCCLUSIVE see **OCCLUSIVE DRESSINGS**

BANDICOOT RATS see **MURIDAE**

BANDICOTA see **MURIDAE**

BANDING, CHROMOSOME see **CHROMOSOME BANDING**

BANG'S DISEASE see **BRUCELLOSIS, BOVINE**

BANISTERINE see **HARMINE**

BANKRUPTCY

Averting disaster: a conversation with the Los Angeles County 'Health Czar' [interview by John K. Iglehart] Margolin B. **Health Aff (Millwood)** 1996 Spring;15(1):86–91

LEGISLATION & JURISPRUDENCE

Insolvency risk in health carriers: innovation, competition, and public protection. Akula JL. **Health Aff (Millwood)** 1997 Jan–Feb;16(1):9–33 (14 ref.)

Retirement savings. Safe haven or open season for feeding creditors in bankruptcy? Dabney HS Jr, et al. **Va Med Q** 1996 Winter;123(1):50–1

BAR CODES see **AUTOMATIC DATA PROCESSING**

BARANY'S TEST see **CALORIC TESTS**

BARBAMYL see **AMOBARBITAL**

BARBARY APE see **MACACA**

BARBER SURGEONS

[From barber–surgeons' guild to medical association. A 400th anniversary] Sandvik H, et al. **Tidsskr Nor Laegeforen** 1996 Dec 10;116(30):3614–7 (Eng. Abstr.) **(Nor)**

HISTORY

Armorers and barber surgeons: a remarkable legacy. Graduation address for the Newington Orthotics and Prosthetics School 20 May 1996. Banta JV. **Conn Med** 1997 Jul;61(7):423–5

Leonardo Fioravanti (1517–1588): a barber–surgeon who influenced the development of reconstructive surgery. Santoni–Rugiu P, et al. **Plast Reconstr Surg** 1997 Feb; 99(2):570–5

[Professional heritage and social origin of the Württemberg barber surgeons of the 19th century] Gross D. **Sudhoffs Arch Z Wissenschaftsgesch** 1996;80(1):38–55 (Eng. Abstr.) **(Ger)**

[Was Klaus von Mantrei the teacher of Hans von Gersdorff?] Vollmuth R. **Sudhoffs Arch Z Wissenschaftsgesch** 1996; 80(1):109–17 (Eng. Abstr.) **(Ger)**

BARBERING

see related
BARBER SURGEONS

Occurrence of asthma and chronic bronchitis among female hairdressers. A questionnaire study. Leino T, et al. **J Occup Environ Med** 1997 Jun;39(6):534–9

Self reported respiratory symptoms and diseases among hairdressers. Leino T, et al. **Occup Environ Med** 1997 Jun; 54(6):452–5

BARBITAL

A nonbenzodiazepine partial agonist, S–(+)–DN–2327, has minimal physical dependence–producing liability, but shows cross–dependence on barbital in rats. Inui Y, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1197–211

THERAPEUTIC USE

Alcohol withdrawal syndrome [letter] Matz R. **Lancet** 1997 Sep 6;350(9079):737

BARBITONE see **BARBITAL**

BARBITURATE SEDATIVES see **SEDATIVES, BARBITURATE**

BARBITURATES

see related
ANESTHETICS, INTRAVENOUS
ANTICONVULSANTS
SEDATIVES, BARBITURATE

Effects of catecholamines and diazepam in chloroquine poisoning in barbiturate anaesthetised rats. Buckley NA, et al. **Hum Exp Toxicol** 1996 Nov;15(11):909–14

In vivo 125I–erythropoietin pharmacokinetics are unchanged after anesthesia, nephrectomy and hepatectomy in sheep. Widness JA, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1205–10

Barbiturates. Coupey SM. **Pediatr Rev** 1997 Aug;18(8):260–4; quiz 265 (13 ref.)

ADMINISTRATION & DOSAGE

Cerebral protection: are all barbiturates created equal? [letter; comment] Drummond JC, et al. **Anesthesiology** 1996 Dec; 85(6):1504–5. Comment on: Anesthesiology 1996 Jun;84(6):1475–84.

Optimal dose for barbiturate protection of the ischemic brain [letter; comment] Nemoto EM. **Anesthesiology** 1996 Dec; 85(6):1505. Comment on: Anesthesiology 1996 Jun;84(6):1475–84.

Barbiturate coma in severe hemispheric stroke: useful or obsolete? Schwab S, et al. **Neurology** 1997 Jun; 48(6):1608–13

[A fixed combination of acetylsalicylic acid and paracetamol is absolutely effective (interview by Dr. rer. nat. Anita Schweiger)] Schweiger A. **Fortschr Med** 1996 Feb 10; 114(4):46–7 **(Ger)**

ADVERSE EFFECTS

[Acute hepatitis associated with microvesicular steatosis induced by Atrium (letter)] Schneider S, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1064–5 **(Fre)**

ANALYSIS

Synthesis of conjugates for a barbiturate screening assay. Adamczyk M, et al. **Bioconjug Chem** 1997 May–Jun; 8(3):281–8

Analysis of toxic drugs by capillary electrophoresis using polyacrylamide–coated columns. Jinno K, et al. **Electrophoresis** 1997 Feb;18(2):284–6

BLOOD

Forensic analysis of 10 barbiturates in human biological samples using a new reversed–phase chromatographic column packed with 2–micrometre porous microspherical silica–gel. Tanaka E, et al. **Forensic Sci Int** 1997 Feb 7; 85(1):73–82

CHEMISTRY

Borinium adduct ion formation with barbiturates in a quadrupole ion–trap mass spectrometer. Colorado A, et al. **J Mass Spectrom** 1996 Apr;31(4):403–10

Foundations of chemical microscopy. 1. Solid–state characterization of 5–nitrobarbituric acid (dilituric acid) and its complexes with group IA and group IIA cations. Brittain HG. **J Pharm Biomed Anal** 1997 May;15(8):1143–55

METABOLISM

Stereoselective binding of the enantiomers of four closely related N–methyl–barbiturates to human, bovine, and rat serum albumin. Büch HP, et al. **Arch Pharm (Weinheim)** 1996 Aug–Sep;329(8–9):399–402

Glutathione dependent reduction of alloxan to dialuric acid catalyzed by thioltransferase (glutaredoxin): a possible role for thioltransferase in alloxan toxicity. Washburn MP, et al. **Free Radic Biol Med** 1997;23(4):563–70

PHARMACOLOGY

Barbiturate inhibition of GLUT–1 mediated hexose transport in human erythrocytes exhibits substrate dependence for equilibrium exchange but not unidirectional sugar flux. el–Barbary A, et al. **Biochemistry** 1996 Dec 3; 35(48):15222–7

A computer program using disposition decomposition analysis in pharmacodynamics. Cheng H, et al. **Biopharm Drug Dispos** 1997 Jan;18(1):9–15

Effects of barbiturates on hypoxic cultures of brain derived microvascular endothelial cells. Fischer S, et al. **Brain Res** 1996 Jan 22;707(1):47–53

gamma–aminobutyric acidA receptor regulation: heterologous uncoupling of modulatory site interactions induced by chronic steroid, barbiturate, benzodiazepine, or GABA treatment in culture. Friedman LK, et al. **Brain Res** 1996 Jan 22;707(1):100–9

Inhibition of gap junctional intercellular communication by barbiturates in long–term primary cultured rat hepatocytes is correlated with liver tumour promoting activity. Ren P, et al. **Carcinogenesis** 1996 Oct;17(10):2119–24

Barbiturate–like actions of the propanediol dicarbamates felbamate and meprobamate. Rho JM, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1383–91

Chimeric GABAA/glycine receptors: expression and barbiturate pharmacology. Koltchine VV, et al. **Neuropharmacology** 1996;35(9–10):1445–56

Benzodiazepine and barbiturate ligands modulate responses of cultured hippocampal neurones to the GABAA receptor partial agonist, 4–PIOL. Kristiansen U, et al. **Neuropharmacology** 1996;35(9–10):1181–91

CHEB, a convulsant barbiturate, evokes calcium–dependent spontaneous glutamate release from rat cerebrocortical synaptosomes. Wei L, et al. **Neuropharmacology** 1996 Jun; 35(6):695–701

Effect of dexamethasone, barbiturate and hypothermy on edema induced by CO2 laser brain lesion in the dog: light and electron microscopic study. Göçer AI, et al. **Neurosurg Rev** 1996;19(1):33–8

Effect of lipid solubility on the development of chronic cross–tolerance between ethanol and different alcohols and barbiturates. Khanna JM, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):101–10

Production of hydrogen peroxide by alveolar macrophages. Effect of barbiturates. Wilhelm J, et al. **Physiol Res** 1995; 44(6):369–75

GABAA receptor subtype diversity: implications for new generation hypnotic drug discovery. Graham D, et al. **Sleep** 1996 Oct;19(8 Suppl):S43–54

POISONING

Butalbital cross–reactivity to an Emit assay for phenobarbital [letter] Nordt SP. **Ann Pharmacother** 1997 Feb;31(2):254–5

[The treatment of acute barbiturate poisoning (apropos 2 case methods)] da Câmara MC. **Rev Bras Anestesiol** 1968 Oct–Dec;18(4):399–416 (23 ref.) (Eng. Abstr.) **(Por)**

THERAPEUTIC USE

The use of barbiturates in the control of intracranial hypertension. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):711–4 (15 ref.)

[Therapy of the status epilepticus] **Nervenarzt** 1994 Jan;65(1 Suppl [therapie]):1–8 **(Ger)**

TOXICITY

Chemical euthanasia of horses [letter] Woodward KN, et al. **Vet Rec** 1996 Jun 15;138(24):600

URINE

Screening for drugs of abuse (II): Cannabinoids, lysergic acid diethylamide, buprenorphine, methadone, barbiturates, benzodiazepines and other drugs. Simpson D, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):460–510 (408 ref.)

Forensic analysis of 10 barbiturates in human biological samples using a new reversed–phase chromatographic column packed with 2–micrometre porous microspherical silica–gel. Tanaka E, et al. **Forensic Sci Int** 1997 Feb 7; 85(1):73–82

BARE LYMPHOCYTE SYNDROME see **SEVERE COMBINED IMMUNODEFICIENCY**

BAREFOOT DOCTORS see **COMMUNITY HEALTH AIDES**

BARIUM

The structure of divalent cation–induced aggregates of PIP2 and their alteration by gelsolin and tau. Flanagan LA, et al. **Biophys J** 1997 Sep;73(3):1440–7

Collagen–coated Ba(2+)–alginate microcarriers for the culture of anchorage–dependent mammalian cells. Gröhn P, et al. **Biotechniques** 1997 May;22(5):970–5

ADVERSE EFFECTS

Emergency contrast studies in the surgical patient: the case against barium [letter; comment] Rucinski JC, et al. **Am J Surg** 1997 May;173(5):455–7. Comment on: Am J Surg 1996 Feb;171(2):227–9.

ANALYSIS

Characterization of a novel methanol dehydrogenase containing a Ba2+ ion at the active site. Goodwin MG, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):673–9

Nondestructive determination of lead, cadmium, tin, antimony, and barium in ceramic glazes by radioisotope X–ray fluorescence spectrometry. Anderson DL, et al. **J AOAC Int** 1996 Sep–Oct;79(5):1141–57

CHEMISTRY

Laser–induced fluorescence of Ba+ ions trapped and mass–selected in a Fourier transform ion cyclotron resonance mass spectrometer. Li GZ, et al. **Rapid Commun Mass Spectrom** 1996;10(14):1850–4

Electric quadrupole interaction of 137Ba in barium fluorohalides. Bastow TJ, et al. **Solid State Nucl Magn Reson** 1996 Feb;6(1):95–100

DIAGNOSTIC USE

Colonoscopy versus barium enema: a reappraisal of the facts and issues [letter] Glick SN. **Gastroenterology** 1997 Sep; 113(3):1048–50

METABOLISM

Regulated calcium channel in apical membranes renal proximal tubule cells. Zhang MI, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1757–64

Mutations in the pore region of ROMK enhance Ba2+ block. Zhou H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1949–56

Reconstitution of the quinoprotein methanol dehydrogenase from inactive Ca(2+)–free enzyme with Ca2+, Sr2+ or Ba2+. Goodwin MG, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):839–42

Characterization of a novel methanol dehydrogenase containing a Ba2+ ion at the active site. Goodwin MG, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):673–9

Excitatory and inhibitory actions of norepinephrine on the Ba2+ current through L–type Ca2+ channels of smooth muscle cells of guinea–pig vas deferens. Kamimura N, et al. **J Cell Physiol** 1996 Nov;169(2):373–9

Barium influx mediated by the cardiac sodium–calcium exchanger in transfected Chinese hamster ovary cells. Condrescu M, et al. **J Gen Physiol** 1997 Jan;109(1):41–51

Ion–dependent inactivation of barium current through L–type calcium channels. Ferreira G, et al. **J Gen Physiol** 1997 Apr;109(4):449–61

Re–evaluation of the P/Q Ca2+ channel components of Ba2+ currents in bovine chromaffin cells superfused with solutions containing low and high Ba2+ concentrations. Albillos A, et al. **Pflugers Arch** 1996 Oct;432(6):1030–8

Characterisation of alpha 1A Ba2+, Sr2+ and Ca2+ currents recorded with the ancillary beta 1–4 subunits. Mangoni ME, et al. **Receptors Channels** 1997;5(1):1–14

PHARMACOLOGY

Inward rectifier K+ currents in smooth muscle cells from rat coronary arteries: block by Mg2+, Ca2+, and Ba2+. Robertson BE, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H696–705

External barium influences the gating charge movement of Shaker potassium channels. Hurst RS, et al. **Biophys J** 1997 Jan;72(1):77–84

A Ba2+ chelator suppresses long shut events in fully activated high–conductance Ca(2+)–dependent K+ channels. Neyton J. **Biophys J** 1996 Jul;71(1):220–6

Barium elicits reversal of low–concentration etorphine–induced decrease of potassium conductance in cultures of dissociated dorsal root ganglion neurons. Fan S, et al. **Brain Res** 1997 Apr 18;754(1–2):303–6

Characterization of a barium–sensitive outward current following glutamate application on rat midbrain dopaminergic cells. Mercuri NB, et al. **Eur J Neurosci** 1996 Aug;8(8):1780–6

Comparison of ultra–slow, voltage–dependent inactivation of the cardiac L–type Ca2+ channel with Ca2+ or Ba2+ as the charge carrier in ferret ventricular myocytes. McMorn SO, et al. **Exp Physiol** 1996 Jul;81(4):565–75

Extracellular K+ and Ba2+ mediate voltage–dependent inactivation of the outward–rectifying K+ channel encoded by the yeast gene TOK1. Vergani P, et al. **FEBS Lett** 1997 Apr 1;405(3):337–44

Ba2+ ions hyperpolarize algal cell membrane and enhance plasmalemma resistance without affecting ion and water contents. Metlička R, et al. **Gen Physiol Biophys** 1996 Apr; 15(2):175–9

Interaction of internal Ba2+ with a cloned Ca(2+)–dependent K+ (hslo) channel from smooth muscle. Diaz F, et al. **J Gen Physiol** 1996 Mar; 107(3):399–407

Transport and regulation of the cardiac Na(+)–Ca2+ exchanger, NCX1. Comparison between Ca2+ and Ba2+. Trac M, et al. **J Gen Physiol** 1997 Mar;109(3):361–9

Permeation and block of dopamine–modulated potassium channels on rat striatal neurons by cesium and barium ions. Lin YJ, et al. **J Neurophysiol** 1996 Sep;76(3):1413–22

Effects of barium, lanthanum and gadolinium on endogenous chloride and potassium currents in Xenopus oocytes. Tokimasa T, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):677–86

Ba2+ differentially inhibits the Rb+ efflux promoting and the vasorelaxant effects of levcromakalim and minoxidil sulfate in rat isolated aorta. Quast U, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):86–93

Electrophysiological properties of the human N–type Ca2+ channel: I. Channel gating in Ca2+, Ba2+ and Sr2+ containing solutions. McNaughton NC, et al. **Neuropharmacology** 1997 Jul;36(7):895–915

Calcium– and barium–dependent extracellular alkaline shifts evoked by electrical activity in rat hippocampal slices. Grichtchenko II, et al. **Neuroscience** 1996 Dec; 75(4):1117–26

Cation permeation and blockade of ROMK1, a cloned renal potassium channel. Löffler K, et al. **Pflugers Arch** 1997 Jun;434(2):151–8

PHYSIOLOGY

beta–Adrenergic modulation of Ba2+ currents and K+ contractures in frog slow skeletal muscle fibers. Huerta M, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C77–81

Voltage–dependent facilitation of calcium channels in rat neostriatal neurons. Song WJ, et al. **J Neurophysiol** 1996 Oct;76(4):2290–306

Effect of SR33805 on barium current and asymmetric intramembrane charge movement in freshly dissociated mouse cerebellar Purkinje neurons. Melliti K, et al.

Neurosci Lett 1996 Oct 4;216(3):167–70

Calcium- and barium-dependent exocytosis from the rat insulinoma cell line RINm5F assayed using membrane capacitance measurements and serotonin release. Richmond JE, et al. **Pflugers Arch** 1996 Jun;432(2):258–69

THERAPEUTIC USE

[Intussusception: barium vs. pneumatic reduction] Sanz N, et al. **Cir Pediatr** 1996 Jan;9(1):21–4 (Eng. Abstr.) **(Spa)**

BARIUM COMPOUNDS

[Scanning electron microscopic studies on mucosal coating by barium mixtures] Usuda K.
Nippon Igaku Hoshasen Gakkai Zasshi 1997 May; 57(6):326–9 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Rehydration of desiccated Baralyme prevents carbon monoxide formation from desflurane in an anesthesia machine. Baxter PJ, et al. **Anesthesiology** 1997 May; 86(5):1061–5

Electric quadrupole interaction of 137Ba in barium fluorohalides. Bastow TJ, et al.
Solid State Nucl Magn Reson 1996 Feb;6(1):95–100

PHARMACOKINETICS

[Bioavailability and bone toxicity of barium chloride by chronic administration in rats] Constant H, et al.
Ann Pharm Fr 1996;54(6):263–7 (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Baralyme dehydration increases and soda lime dehydration decreases the concentration of compound A resulting from sevoflurane degradation in a standard anesthetic circuit. Eger EI 2nd, et al. **Anesth Analg** 1997 Oct;85(4):892–8

Cytotoxicity of synthetic barium hydroxyapatite. Kikuchi M, et al. **Biomed Mater Eng** 1996;6(6):405–13

Barium-induced diastolic depolarization and controlling mechanisms in guinea pig ventricular muscle. Shen JB, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):385–96

POISONING

[Bioavailability and bone toxicity of barium chloride by chronic administration in rats] Constant H, et al.
Ann Pharm Fr 1996;54(6):263–7 (Eng. Abstr.) **(Fre)**

BARIUM SULFATE

The use of barium sulfate for implant templates. Basten CH, et al. **J Prosthet Dent** 1996 Oct;76(4):451–4

ADMINISTRATION & DOSAGE

MR imaging of the gastrointestinal tract with i.v., gadolinium and diluted barium oral contrast media compared with unenhanced MR imaging and CT. Low RN, et al.
AJR Am J Roentgenol 1997 Oct;169(4):1051–9

Oral administration of a low-cost negative contrast agent: a three-year experience in routine practice. Ernst O, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):495–8

ADVERSE EFFECTS

Re: Anaphylactic shock during a routine upper gastrointestinal series [letter; comment] Miller SH.
AJR Am J Roentgenol 1997 Sep;169(3):912–3. Comment on: AJR Am J Roentgenol 1997 Apr;168(4):957–8.

Clinical presentation and management of iatrogenic colon perforations. Gedebou TM, et al. **Am J Surg** 1996 Nov; 172(5):454–7; discussion 457–8

Complications of barium enema examinations: a survey of UK Consultant Radiologists 1992 to 1994. Blakeborough A, et al. **Clin Radiol** 1997 Feb;52(2):142–8

Colonic chemobezoar—intestinal obstruction due to barium inspissation. Pai ML, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):114–5

Barium aspiration in a heptagenarian [letter] Marinella MA. **J Am Geriatr Soc** 1997 Feb;45(2):253–4

Radio-opaque agents in bone cement increase bone resorption. Sabokbar A, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):129–34

Barium peritonitis: a rare complication of upper gastrointestinal contrast investigation. Karanikas ID, et al. **Postgrad Med J** 1997 May;73(859):297–8

DIAGNOSTIC USE

Acute colonic obstruction caused by intussusception and extrusion of a sigmoid lipoma through the anus after barium enema. Kabaalioğlu A, et al. **Abdom Imaging** 1997 Jul–Aug; 22(4):389–91

Barium enema and colonoscopy: appropriateness of utilization in a Medicaid population. Levine MS, et al.
Abdom Imaging 1997 Jan–Feb;22(1):41–4

Pencil-thin stools and constipation: indications for barium enema? Ott DJ. **Abdom Imaging** 1997 Jul–Aug;22(4):450–1

Evaluation of a low-density gastrointestinal contrast agent: effect on computed tomography angiography. Alexander D, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S432–4

Combined videomanometric identification of abnormalities related to pharyngeal retention. Olsson R, et al.
Acad Radiol 1997 May;4(5):349–54

Incidence of recurrent intussusception following barium versus air enema. Eshel G, et al. **Acta Paediatr** 1997 May; 86(5):545–6

Addition of methyl cellulose enema to double-contrast barium imaging of sigmoid diverticulosis. Olsson R, et al.
Acta Radiol 1997 Jan;38(1):73–5

Perforation of the colon during barium enema examination. Berlin L. **AJR Am J Roentgenol** 1996 Oct;167(4):843–5

Timed barium swallow: a simple technique for evaluating esophageal emptying in patients with achalasia. de Oliveira JM, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):473–9

Sedation for enteroclysis using oral diazepam [letter; comment] Gold B, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1591. Comment on: AJR Am J Roentgenol 1988 Nov;151(5):951–2.

The hyperdense liver and spleen: a CT manifestation of barium embolization through a duodenocaval fistula [letter] Vitellas KM, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):915–6

Barium enema and colon cancer screening: finally a study. Rex D. **Am J Gastroenterol** 1997 Sep;92(9):1570–2

Barium enema preparation: a study of low-residue diet, 'Picolax' and 'Kleen-Prep'. Hawkins S, et al.
Australas Radiol 1996 Aug;40(3):235–9

United States has recommended screening for colon cancer. Why has barium enema been suggested? [letter; comment] Chapman AH, et al. **BMJ** 1997 May 31;314(7094):1624–5 . Comment on: BMJ 1997 Jan 25;314(7076):285–91. Comment on: BMJ 1997 Feb 8;314(7078):396.

Does 100 mm photofluorography always have a dose advantage over conventional film-screen radiography in barium meals? Dzik-Jurasz AS, et al. **Br J Radiol** 1997 Feb;70:168–71

In vivo measurement method of ovarian dose during barium enema examinations. Lavoie C, et al. **Br J Radiol** 1997 Mar; 70:291–5

The use of metoclopramide for the small bowel meal examination: pre-procedural versus peri-procedural oral administration. Paul N, et al. **Br J Radiol** 1996 Dec; 69(828):1130–3

Patient dose reduction by audit of grid usage in barium enemas. Seymour R. **Br J Radiol** 1997 May;70(833):489–91

Dose reduction in double contrast barium enema by use of low fluoroscopic current. Smiddy PF, et al.
Br J Radiol 1996 Sep;69(825):852–4

Detection of occult esophageal narrowing with a barium tablet during chest radiography. Ghahremani GG, et al.
Clin Imaging 1996 Jul–Sep;20(3):184–90

Retention balloon catheters and barium enemas: attitudes, current practice and relative safety in the UK. Blakeborough A, et al. **Clin Radiol** 1997 Jan;52(1):62–4

Air or CO2 as an insufflation agent for double contrast barium enema [letter; comment] Matson MB, et al.
Clin Radiol 1996 Oct;51(10):741–2. Comment on: Clin Radiol 1995 Aug;50(8):558–61. Comment on: Clin Radiol 1996 May;51(5):382.

Tuberculous colitis. Findings at double-contrast barium enema examination. Han JK, et al. **Dis Colon Rectum** 1996 Nov;39(11):1204–9

Patient perception and localization of dysphagia — barium study correlation. Wright RE, et al. **Dis Esophagus** 1997 Jul;10(3):211–4; discussion 215–6

A comment on "Modified barium swallow: clinical and radiographic correlation and relation to feeding recommendations" (Dysphaghia 11: 187–190, 1996) [letter; comment] Leder SB. **Dysphagia** 1997 Winter;12(1):52–6. Comment on: Dysphagia 1996 Summer;11(3):187–90.

Comparison of film-screen combination and digital fluorography in gastrointestinal barium examinations in a clinical setting. Barkhof F, et al. **Eur J Radiol** 1996 Jun; 22(3):232–5

Motility disorders of the esophagus: diagnosis with barium-rice administration. Schwickert HC, et al.
Eur J Radiol 1995 Dec 15;21(2):131–7

Gastrointestinal bleeding of obscure origin: role of enteroclysis. Antes G, et al. **Eur Radiol** 1996;6(6):851–4

Imaging of primary small intestinal tumours by enteroclysis and CT with pathological correlation. Gourtsoyiannis N, et al. **Eur Radiol** 1997;7(5):625–42 (50 ref.)

Added copper filtration in digital paediatric double-contrast colon examinations: effects on radiation dose and image quality. Hansson B, et al. **Eur Radiol** 1997;7(7):1117–22

Colonoscopy and barium enema: radiologist's response [editorial; comment] Ferrucci JT. **Gastroenterology** 1997 Jan;112(1):294–7. Comment on: Gastroenterology 1997 Jan;112(1):17–23.

Relative sensitivity of colonoscopy and barium enema for detection of colorectal cancer in clinical practice [see comments] Rex DK, et al. **Gastroenterology** 1997 Jan; 112(1):17–23. Comment in: Gastroenterology 1997 Jan;112(1):292–4. Comment in: Gastroenterology 1997 Jan;112(1):294–7.

What is a gold standard for colon polyps? [editorial; comment] Waye JD. **Gastroenterology** 1997 Jan; 112(1):292–4. Comment on: Gastroenterology 1997 Jan;112(1):17–23. Comment on: Gastroenterology 1997 Jan;112(1):24–8.

Colonoscopy without premedication versus barium enema: a comparison of patient discomfort. Eckardt VF, et al.
Gastrointest Endosc 1996 Aug;44(2):177–80

Enteroscopy with enteroclysis. Aliperti G, et al.
Gastrointest Endosc Clin N Am 1996 Oct;6(4):803–10 (32 ref.)

The utility of pretreatment barium enema in women with endometrial carcinoma. Pearl ML, et al. **Gynecol Oncol** 1997 Mar;64(3):442–5

Esophageal pseudomass at the thoracic inlet on barium swallow: CT findings. Bhadelia RA, et al.
J Comput Assist Tomogr 1996 Nov–Dec;20(6):987–9

New barium paste mixture for helical (slip-ring) CT evaluation of rectal carcinoma. Ogawa Y, et al.
J Comput Assist Tomogr 1997 May–Jun;21(3):398–401

The investigation of symptomatic inguinal hernia: a complication of barium enema. Cohen JS, et al.
J R Coll Surg Edinb 1997 Feb;42(1):53–5

CT-guided bronchoscopic barium marking for resection of a fluoroscopically invisible peripheral pulmonary lesion. Kobayashi T, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):204–5

Laryngopharyngeal sensory testing with modified barium swallow as predictors of aspiration pneumonia after stroke. Aviv JE, et al. **Laryngoscope** 1997 Sep;107(9):1254–60

High-density oral barium sulfate in abdominal MRI: efficacy and tolerance in a clinical setting. Burton SS, et al.
Magn Reson Imaging 1997;15(2):147–53

Role of the modified barium swallow in management of patients with dysphagia. Logemann JA.
Otolaryngol Head Neck Surg 1997 Mar;116(3):335–8

Videofluoroscopic evaluation of dysphagia in motor neurone disease with modified barium swallow. Wright R, et al.
Palliat Med 1997 Jan;11(1):44–8

Massive bronchoalveolar aspiration of barium sulfate during a radiologic study of the upper digestive tract [letter] López-Castilla JD, et al. **Pediatr Pulmonol** 1997 Aug; 24(2):126–7

Double-contrast barium examination of the upper gastrointestinal tract with nonendoscopic biopsy: findings in 100 patients. Bender GN, et al. **Radiology** 1997 Feb; 202(2):355–9

Esophageal perforation: comparison of use of aqueous and barium-containing contrast media. Buecker A, et al.
Radiology 1997 Mar;202(3):683–6

Barium sulfate versus water-soluble, low-osmolarity contrast medium in esophageal examinations [letter] Ginai AZ.
Radiology 1997 Oct;205(1):287–8

Barium sulfate: a new (old) contrast agent for diagnosis of postoperative esophageal leaks. Gollub MJ, et al.
Radiology 1997 Feb;202(2):360–2

Defecography in healthy subjects: comparison of three contrast media. Ikenberry S, et al. **Radiology** 1996 Oct; 201(1):233–8

Modified barium swallow examination in dysphagic stroke patients. Khoo JB, et al. **Singapore Med J** 1996 Aug; 37(4):407–10

The appearance of a normal appendix on barium enema examination does not rule out a diagnosis of chronic appendicitis: report of a case and review of the literature. Okamoto T, et al. **Surg Today** 1997;27(6):550–3 (16 ref.)

[Preparation for double-contrast barium enema in tropical hospitals. Experience of the Yopougon UHC] N'Gbesso RD, et al. **J Radiol** 1997 Jul;78(7):519–20 **(Fre)**

[Experiences with an alternative distension medium in oral contrast imaging of the small intestine] Vogel J, et al.
Aktuelle Radiol 1996 Jan;6(1):25–7 (Eng. Abstr.) **(Ger)**

[Diagnostic accuracy and clinical significance of combined small bowel enema and scintigraphy with pure fractions of neutrophil granulocytes labeled with HMPAO-Tc99m in chronic intestinal inflammation] Celentano L, et al.
Radiol Med (Torino) 1996 Oct;92(4):398–404 (Eng. Abstr.) **(Ita)**

[Basic and clinical studies of oral barium sulfate preparations for CT] Higashi T, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1997 May; 57(6):314–8 (Eng. Abstr.) **(Jpn)**

[Gastric emptying by the barium marker method] Kikuchi K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:132–4 (6 ref.) **(Jpn)**

[A basic study on gastric emptying test using barium grains and effect of drugs on gastric emptying in rats] Sakurai T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb; 93(2):75–82 (Eng. Abstr.) **(Jpn)**

ECONOMICS

Oral administration of a low-cost negative contrast agent: a three-year experience in routine practice. Ernst O, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):495–8

STANDARDS

Standardization of clinical criteria required for use of the 12.5 millimeter barium tablet in evaluating esophageal lumenal patency. Gallo SH, et al. **Gastrointest Endosc** 1996 Aug;44(2):181–4

THERAPEUTIC USE

The cost benefit of changing protocols in the management of intussusception. Stein JE, et al. **Aust N Z J Surg** 1997 Jun;67(6):330–1

Randomized trial of a biofragmentable bowel anastomosis ring in high-risk colonic resection. Pählman L, et al.
Br J Surg 1997 Sep;84(9):1291–4

Childhood intussusception: ultrasound-guided Hartmann's solution hydrostatic reduction or barium enema reduction? Chan KL, et al. **J Pediatr Surg** 1997 Jan;32(1):3–6

BARLEY

Crude protein degradability, protein digestible in the intestine and net energy for lactation of whole crop barley in various vegetative stages. Komprda T, et al. **Arch Tierernahr** 1996; 49(4):325–33

Substrates available for colonic fermentation from oat, barley and wheat bread diets. A study in ileostomy subjects. Lia A, et al. **Br J Nutr** 1996 Dec;76(6):797–808

Is the rat a suitable model for humans on studies of cereal digestion? Roe M, et al. **Eur J Clin Nutr** 1996 Nov; 50(11):710–2

The effects of fungal competition on colonization of barley grain by Fusarium sporotrichioides on T–2 toxin formation. Ramakrishna N, et al. **Food Addit Contam** 1996 Nov–Dec; 13(8):939–48

Effect of beta–glucanase supplementation to hulless barley– or wheat–soybean meal diets on the digestibilities of energy, protein, beta–glucans, and amino acids in young pigs. Li S, et al. **J Anim Sci** 1996 Jul;74(7):1649–56

Minimum versus optimum concentrations of fiber in dairy cow diets based on barley silage and concentrates of barley or corn. Beauchemin KA, et al. **J Dairy Sci** 1997 Aug; 80(8):1629–39

Effects of tempered barley on milk yield, intake, and digestion kinetics of lactating Holstein cows. Christen SD, et al. **J Dairy Sci** 1996 Aug;79(8):1394–9

Production responses by early lactation cows to whole sunflower seed or tallow supplementation of a diet based on barley. Markus SB, et al. **J Dairy Sci** 1996 Oct; 79(10):1817–25

Effect of boiled barley–rice–feeding in hypercholesterolemic and normolipemic subjects. Ikegami S, et al. **Plant Foods Hum Nutr** 1996 Jun;49(4):317–28

[The possible hypolipidemic action of the dietary fiber from barley meal] Iatskovskaia NIa, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):106–9 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Natural contamination of Manitoba barley by 3,15–diacetyldeoxynivalenol and its detection by immunochromatography. Usleber E, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3858–60

Primary structure of the plant serpin BSZ7 having the capacity of chymotrypsin inhibition. Rasmussen SK, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):127–30

Tomographic distribution of acetylated histone H4 in plant chromosomes, nuclei and nucleoli. Idei S, et al. **Chromosoma** 1996 Dec;105(5):293–302

Natural contamination of spring barley with group A trichothecene mycotoxins in south–eastern Poland. Perkowski J, et al. **Food Addit Contam** 1997 May–Jun; 14(4):321–5

Cloning and expression pattern of Hor v 9, the group 9 pollen isoallergen from barley. Astwood JD, et al. **Gene** 1996 Dec 5;182(1–2):53–62

Determination of citrinin in barley by indirect and direct enzyme immunoassay. Abramson D. **J AOAC Int** 1996 Nov–Dec;79(6):1325–9

Protein quality and digestibility of new high–lysine barley varieties in growing rats. Gabert VM, et al. **Plant Foods Hum Nutr** 1995 Sep;48(2):169–79

Barley lipid–transfer protein complexed with palmitoyl CoA: the structure reveals a hydrophobic binding site that can expand to fit both large and small lipid–like ligands. Lerche MH, et al. **Structure** 1997 Feb 15;5(2):291–306

CYTOLOGY

Changes in chromosomal ultrastructure during the cell cycle. Martin R, et al. **Chromosome Res** 1996 Jun;4(4):288–94

Apoptosis in barley aleurone during germination and its inhibition by abscisic acid. Wang M, et al. **Plant Mol Biol** 1996 Dec;32(6):1125–34

DRUG EFFECTS

Probing tenability of biochemical vis–a–vis physicochemical interpretations of modulation of radiation damage by caffeine and cysteine in barley. Sah NK, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):384–90

Mechanistic aspects of modification of radiobiological damage in barley seeds by glutathione and buthionine sulfoximine. Singh SP, et al. **Indian J Exp Biol** 1996 Mar; 34(3):247–51

ENZYMOLOGY

Kinetic analysis of barley chitinase. Hollis T, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):335–42

Oxalate oxidase from barley roots: purification to homogeneity and study of some molecular, catalytic, and binding properties. Kotsira VP, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):239–49

The glycosylation of the aspartic proteinases from barley (Hordeum vulgare L.) and cardoon (Cynara cardunculus L.). Costa J, et al. **Eur J Biochem** 1997 Feb 1;243(3):695–700

Subcellular and tissue distribution, partial purification, and sequencing of calmodulin–stimulated Ca2+–transporting ATPases from barley (Hordeum vulgare L.) and tobacco (Nicotiana tabacum). Dainese P, et al. **Eur J Biochem** 1997 Feb 15;244(1):31–8

Fructan synthesis in transgenic tobacco and chicory plants expressing barley sucrose: fructan 6–fructosyltransferase. Sprenger N, et al. **FEBS Lett** 1997 Jan 6;400(3):355–8

Molecular cloning and expression of the large subunit of ADP–glucose pyrophosphorylase from barley (Hordeum vulgare) leaves. Eimert K, et al. **Gene** 1997 Apr 11; 189(1):79–82

Purification of aminopeptidase from Australian classified barley flour. Doi H, et al. **Int J Biochem Cell Biol** 1997 Feb;29(2):345–52

Improved activity and modulated action pattern obtained by random mutagenesis at the fourth beta–alpha loop involved in substrate binding to the catalytic (beta/alpha)8–barrel domain of barley alpha–amylase 1. Matsui I, et al. **J Biol Chem** 1997 Sep 5;272(36):22456–63

Telomerase activity in plant extracts. Heller K, et al. **Mol Gen Genet** 1996 Sep 13;252(3):342–5

Magnesium chelatase: association with ribosomes and mutant complementation studies identify barley subunit Xantha–G as a functional counterpart of Rhodobacter subunit BchD. Kannangara CG, et al. **Mol Gen Genet** 1997 Mar 18; 254(1):85–92

Cloning and mapping of a putative barley NADPH–dependent HC–toxin reductase. Han F, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):234–9

Purification and characterization of wall–bound exo–1,3–beta–D–glucanase from barley (Hordeum vulgare L.) seedlings. Kotake T, et al. **Plant Cell Physiol** 1997 Feb; 38(2):194–200

Identification of a methyl jasmonate–responsive region in the promoter of a lipoxygenase 1 gene expressed in barley grain. Rouster J, et al. **Plant J** 1997 Mar;11(3):513–23

Characterization of a barley gene coding for an alpha–amylase inhibitor subunit (CMd protein) and analysis of its promoter in transgenic tobacco plants and in maize kernels by microprojectile bombardment. Grosset J, et al. **Plant Mol Biol** 1997 May;34(2):331–8

Evidence that barley 3–hydroxy–3–methylglutaryl–coenzyme a reductase kinase is a member of the sucrose nonfermenting–1–related protein kinase family. Barker JH, et al. **Plant Physiol** 1996 Nov; 112(3):1141–9

Expression of catalytically active barley glutamyl tRNAGlu reductase in Escherichia coli as a fusion protein with glutathione S–transferase. Vothknecht UC, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9287–91

Overexpression, purification, and characterization of recombinant barley alpha–amylases 1 and 2 secreted by the methylotrophic yeast Pichia pastoris. Juge N, et al. **Protein Expr Purif** 1996 Sep;8(2):204–14

GENETICS

Genetic analysis of the components of winterhardiness in barley (Hordeum vulgar L.). Karsai I, et al. **Acta Biol Hung** 1997;48(1):67–76

Heterologous expression and characterization of wild–type and mutant forms of a 26 kDa endochitinase from barley (Hordeum vulgare L.). Andersen MD, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):815–22

Use of barley mutants to study the control of photorespiratory metabolism. Leegood RC, et al. **Biochem Soc Trans** 1996 Aug;24(3):757–61

Detection of single–copy sequences with digoxigenin–labeled probes in a complex plant genome after separation on pulsed–field gels. Lahaye T, et al. **Biotechniques** 1996 Dec; 21(6):1067–70, 1072

The barley Mlo gene: a novel control element of plant pathogen resistance. Büschges R, et al. **Cell** 1997 Mar 7; 88(5):695–705

Physical mapping of repetitive DNA sequences and 5S and 18S–26S rDNA in five wild species of the genus Hordeum. de Bustos A, et al. **Chromosome Res** 1996 Nov;4(7):491–9

Globular and fibrous structure in barley chromosomes revealed by high–resolution scanning electron microscopy. Iwano M, et al. **Chromosome Res** 1997 Aug;5(5):341–9

Transcriptionally active chromosomes (TACs) of barley chloroplasts contain the alpha–subunit of plastome–encoded RNA polymerase. Suck R, et al. **Curr Genet** 1996 Dec;30(6):515–21

DNA binding sites recognised in vitro by a knotted class 1 homeodomain protein encoded by the hooded gene, k, in barley (Hordeum vulgare). Krusell L, et al. **FEBS Lett** 1997 May 12;408(1):25–9

Molecular cloning and expression of the large subunit of ADP–glucose pyrophosphorylase from barley (Hordeum vulgare) leaves. Eimert K, et al. **Gene** 1997 Apr 11; 189(1):79–82

Molecular cloning of higher plant homologues of the high–affinity nitrate transporters of Chlamydomonas reinhardtii and Aspergillus nidulans. Trueman LJ, et al. **Gene** 1996 Oct 10;175(1–2):223–31

Genetic map of diploid wheat, Triticum monococcum L., and its comparison with maps of Hordeum vulgare L. Dubcovsky J, et al. **Genetics** 1996 Jun;143(2):983–99

The 5S rRNA gene units in ancestral two–rowed barley (Hordeum spontaneum C. Koch) and bulbous barley (H. bulbosum L.): sequence analysis and phylogenetic relationships with the 5S rDNA units of cultivated barley (H. vulgare L.). Baum BR, et al. **Genome** 1996 Feb; 39(1):140–9

Identification of RAPD markers for common root rot and spot blotch (Cochliobolus sativus) resistance in barley. Kutcher HR, et al. **Genome** 1996 Feb;39(1):206–15

Cloning and characterization of a highly repeated DNA sequence in Hordeum vulgare L. Liu K, et al. **Genome** 1996 Dec;39(6):1159–68

Barley elongation factor 1 alpha: genomic organization, DNA sequence, and phylogenetic implications. Nielsen PS, et al. **Genome** 1997 Aug;40(4):559–65

Genome and chromosome identification in cultivated barley and related species of the Triticeae (Poaceae) by in situ hybridization with the GAA–satellite sequence. Pedersen C, et al. **Genome** 1996 Feb;39(1):93–104

Discriminating between barley genotypes using microsatellite markers. Russell J, et al. **Genome** 1997 Aug;40(4):442–50

Simple sequence repeat primers used in polymerase chain reaction amplifications to study genetic diversity in barley. Sánchez de la Hoz MP, et al. **Genome** 1996 Feb;39(1):112–7

Barley varieties for finishing steers: I. Feedlot performance, in vivo diet digestion, and carcass characteristics. Boss DL, et al. **J Anim Sci** 1996 Aug;74(8):1967–72

Barley varieties for finishing steers: II. Ruminal characteristics and rate, site, and extent of digestion. Boss DL, et al. **J Anim Sci** 1996 Aug;74(8):1973–81

Structure, hormonal regulation, and chromosomal location of genes encoding barley (1—>4)–beta–xylan endohydrolases. Banik M, et al. **Mol Gen Genet** 1997 Feb 20;253(5):599–608

The physical relationship of barley chromosome 5 (1H) to the linkage groups of rice chromosomes 5 and 10. Korzun L, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):225–31

Two cold–inducible genes encoding lipid transfer protein LTP4 from barley show differential responses to bacterial pathogens. Molina A, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):162–8

Development of AFLP markers in barley. Qi X, et al. **Mol Gen Genet** 1997 Apr 16;254(3):330–6

Homology of AFLP products in three mapping populations of barley. Waugh R, et al. **Mol Gen Genet** 1997 Jul; 255(3):311–21

Genetic distribution of Bare–1–like retrotransposable elements in the barley genome revealed by sequence–specific amplification polymorphisms (S–SAP). Waugh R, et al. **Mol Gen Genet** 1997 Feb 27;253(6):687–94

Cloning and mapping of a putative barley NADPH–dependent HC–toxin reductase. Han F, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):234–9

Methyl jasmonate induces an O–methyltransferase in barley. Lee JE, et al. **Plant Cell Physiol** 1997 Jul;38(7):851–62

Development of a simple transient assay for Ac/Ds activity in cells of intact barley tissue. McElroy D, et al. **Plant J** 1997 Jan;11(1):157–65

Molecular cloning of cDNAs encoding (1—>4)–beta–xylan endohydrolases from the aleurone layer of germinated barley (Hordeum vulgare). Banik M, et al. **Plant Mol Biol** 1996 Sep;31(6):1163–72

Engineering of the aspartate family biosynthetic pathway in barley (Hordeum vulgare L.) by transformation with heterologous genes encoding feed–back–insensitive aspartate kinase and dihydrodipicolinate synthase. Brinch–Pedersen H, et al. **Plant Mol Biol** 1996 Nov; 32(4):611–20

Isolation of molecular markers from the barley endosperm coenocyte and the surrounding nucellus cell layers. Doan DN, et al. **Plant Mol Biol** 1996 Jul;31(4):877–86

Characterization of a barley gene coding for an alpha–amylase inhibitor subunit (CMd protein) and analysis of its promoter in transgenic tobacco plants and in maize kernels by microprojectile bombardment. Grosset J, et al. **Plant Mol Biol** 1997 May;34(2):331–8

Towards map–based cloning of the barley stem rust resistance genes Rpg1 and rpg4 using rice as an intergenomic cloning vehicle. Kilian A, et al. **Plant Mol Biol** 1997 Sep; 35(1–2):187–95

Differential expression of pathogen–responsive genes encoding two types of glycine–rich proteins in barley. Molina A, et al. **Plant Mol Biol** 1997 Mar;33(5):803–10

mRNA stability and localisation of the low–temperature–responsive barley gene family blt14. Phillips JR, et al. **Plant Mol Biol** 1997 Apr;33(6):1013–23

Isolation and promoter characterization of barley gene Itr1 encoding trypsin inhibitor BTI–CMe: differential activity in wild–type and mutant lys3a endosperm. Royo J, et al. **Plant Mol Biol** 1996 Aug;31(5):1051–9

A peroxiredoxin antioxidant is encoded by a dormancy–related gene, Per1, expressed during late development in the aleurone and embryo of barley grains. Stacy RA, et al. **Plant Mol Biol** 1996 Sep;31(6):1205–16

Defence–related gene activation during an incompatible interaction between Stagonospora (Septoria) nodorum and barley (Hordeum vulgare L.) coleoptile cells. Stevens C, et al. **Plant Mol Biol** 1996 Jul;31(4):741–9

The distribution of genes in the genomes of Gramineae. Barakat A, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):6857–61

[Structural features of the modified BARE–retroelement in the barley (Hordeum vulgare L.) genome] Shcherban' AB, et al. **Genetika** 1997 Apr;33(4):431–6 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Molecular characterization of Hor v 9. Conservation of a T–cell epitope among group IX pollen allergens and human VCAM and CD2. Astwood JD, et al. **Adv Exp Med Biol** 1996;409:269–77

METABOLISM

Use of barley mutants to study the control of photorespiratory metabolism. Leegood RC, et al. **Biochem Soc Trans** 1996 Aug;24(3):757–61

Processing of thionin precursors in barley leaves by a vacuolar proteinase. Romero A, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):202–8

Stabilization of the chlorophyll binding apoproteins, P700, CP47, CP43, D2, and D1, by synthesis of Zn–pheophytin a in intact etioplasts from barley. Eichacker LA, et al. **FEBS Lett** 1996 Oct 21;395(2–3):251–6

Amino acid conjugates of jasmonic acid induce jasmonate–responsive gene expression in barley (Hordeum vulgare L.) leaves. Kramell R, et al. **FEBS Lett** 1997 Sep 8;414(2):197–202

Heat shock inhibits release of the signal recognition particle from the endoplasmic reticulum in barley aleurone layers. Chu B, et al. **J Biol Chem** 1997 Mar 14;272(11):7306–13

Heterologous expression of three plant serpins with distinct inhibitory specificities. Dahl SW, et al. **J Biol Chem** 1996 Oct 11;271(41):25083–8

Expression, purification, and properties of recombinant barley (Hordeum sp.) hemoglobin. Optical spectra and reactions with gaseous ligands. Duff SM, et al. **J Biol Chem** 1997 Jul 4;272(27):16746–52

How plants dispose of chlorophyll catabolites. Directly energized uptake of tetrapyrrolic breakdown products into isolated vacuoles. Hinder B, et al. **J Biol Chem** 1996 Nov 1;271(44):27233–6

Different energization mechanisms drive the vacuolar uptake of a flavonoid glucoside and a herbicide glucoside. Klein M, et al. **J Biol Chem** 1996 Nov 22;271(47):29666–71

Photoacoustically monitored thermal energy dissipation and xanthophyll cycle carotenoids in higher plant leaves. Havaux M, et al. **J Photochem Photobiol B** 1997 Aug; 40(1):68–75

Cloning of a rice cDNA encoding a transcription factor homologous to barley GAMyb. Gubler F, et al. **Plant Cell Physiol** 1997 Mar;38(3):362–5

Developmental and tissue–specific expression of JIP–23, a jasmonate–inducible protein of barley. Hause B, et al. **Plant Cell Physiol** 1996 Jul;37(5):641–9

The plant 2–Cys peroxiredoxin BAS1 is a nuclear–encoded chloroplast protein: its expressional regulation, phylogenetic origin, and implications for its specific physiological function in plants. Baier M, et al. **Plant J** 1997 Jul;12(1):179–90

Nearest–neighbor analysis of higher–plant photosystem I holocomplex. Jansson S, et al. **Plant Physiol** 1996 Sep; 112(1):409–20

Comparison of inert markers [chromic oxide or insoluble ash (Celite)] for determining apparent metabolizable energy of wheat– or barley–based broiler diets with or without enzymes. Scott TA, et al. **Poult Sci** 1997 Apr;76(4):594–8

MICROBIOLOGY

Natural contamination of spring barley with group A trichothecene mycotoxins in south–eastern Poland. Perkowski J, et al. **Food Addit Contam** 1997 May–Jun; 14(4):321–5

Production of patulin and cytochalasin E by Aspergillus clavatus during malting of barley and wheat. Lopez–Diaz TM, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):129–36

Enumeration of fungi in barley. Rabie CJ, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):117–27

Two cold–inducible genes encoding lipid transfer protein LTP4 from barley show differential responses to bacterial pathogens. Molina A, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):162–8

PHYSIOLOGY

Genetic analysis of the components of winterhardiness in barley (Hordeum vulgar L.). Karsai I, et al. **Acta Biol Hung** 1997;48(1):67–76

Involvement of protein kinase and extraplastidic serine/threonine protein phosphatases in signaling pathways regulating plastid transcription and the psbD blue light–responsive promoter in barley. Christopher DA, et al. **Plant Physiol** 1997 Apr;113(4):1273–82

RADIATION EFFECTS

The transfer of 137Cs from barley to beer. Pröhl G, et al. **Health Phys** 1997 Jan;72(1):111–3

Probing tenability of biochemical vis–a–vis physicochemical interpretations of modulation of radiation damage by caffeine and cysteine in barley. Sah NK, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):384–90

[Radiation–induced changes in the cellular chromatin of cereal plants cultivated in the area of the Chernobyl Atomic Electric Power Station] Reshetnikov VN, et al. **Radiats Biol Radioecol** 1996 Jul–Aug;36(4):567–72 (Eng. Abstr.) **(Rus)**

STANDARDS

Barley varieties for finishing steers: II. Ruminal characteristics and rate, site, and extent of digestion. Boss DL, et al. **J Anim Sci** 1996 Aug;74(8):1973–81

Barley varieties for finishing steers: I. Feedlot performance, in vivo diet digestion, and carcass characteristics. Boss DL, et al. **J Anim Sci** 1996 Aug;74(8):1967–72

Influence of flake density on the comparative feeding value of a barley–corn blend for feedlot cattle. Zinn RA, et al. **J Anim Sci** 1997 Apr;75(4):904–9

Comparative feeding value of hulless vs covered barley for feedlot cattle. Zinn RA, et al. **J Anim Sci** 1996 Jun; 74(6):1187–93

Energy evaluation of eight barley cultivars for poultry: effect of dietary enzyme addition. Villamide MJ, et al. **Poult Sci** 1997 Jun;76(6):834–40

ULTRASTRUCTURE

Cytochemical localization of photosystem I in relation to differentiation of the thylakoid membranes during greening of barley leaves. Toda Y, et al. **J Electron Microsc (Tokyo)** 1995 Dec;44(6):450–5

VIROLOGY

Complete RNA1 sequences of two UK isolates of barley mild mosaic virus: a wild–type fungus–transmissible isolate and a non–fungus–transmissible derivative. Peerenboom E, et al. **Virus Res** 1997 Aug;50(2):175–83

BARLEY YELLOW DWARF VIRUSES see **LUTEOVIRUS**

BARMAH FOREST VIRUS see **ALPHAVIRUS**

BARNACLES

GENETICS

Molecular cloning of a new member of the putative G protein–coupled receptor gene from barnacle Balanus amphitrite. Isoai A, et al. **Gene** 1996 Oct 10;175(1–2):95–100

Molecular cloning of a putative serotonin receptor gene from barnacle, Balanus amphitrite. Kawahara H, et al. **Gene** 1997 Jan 15;184(2):245–50

engrailed duplication events during the evolution of barnacles. Gibert JM, et al. **J Mol Evol** 1997 Jun; 44(6):585–94

METABOLISM

Effect of pentachlorophenol on calcium accumulation in barnacle muscle cells. Nwoga JC, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):13–20

BARORECEPTORS see **PRESSORECEPTORS**

BAROREFLEX

Decreased baroreflex sensitivity in patients with stable coronary artery disease is correlated with the severity of coronary narrowing. Katsube Y, et al. **Am J Cardiol** 1996 Nov 1;78(9):1007–10

Alterations in the baroreflex occur late in pregnancy in conscious rabbits. Quesnell RR, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):692–4

Gigantocellular vasodepressor area is tonically active and distinct from caudal ventrolateral vasodepressor area. Aicher SA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R731–42

Area postrema–induced inhibition of the exercise pressor reflex. Bonigut S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1650–5

Arginine vasopressin and baroreflex function after converting enzyme inhibition in normal humans. Goldsmith SR. **Am J Physiol** 1997 Mar;272(3 Pt 1):E429–36

Cardiovascular response to stress: baroreflex resetting and hemodynamics. Hatton DC, et al. **Am J Physiol** 1997 May; 272(5 Pt 2):R1588–94

Transfer function analysis of central arc of aortic baroreceptor reflex in rabbits. Kubo T, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1054–62

Diminished vasomotor component of systemic arterial pressure signals and baroreflex in brain death. Kuo TB, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1291–8

Spatiotemporal aspects of sympathetic C–fiber afferent activity in pressor reflex during abdominal ischemia. Pan HL, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1928–36

Glutamate release in parabrachial nucleus and baroreflex alterations after vagal afferent activation. Saleh TM, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1631–40

Phase dependencies of the human baroreceptor reflex. Seidel H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H2040–53

Interaction of central venous pressure, intramuscular pressure, and carotid baroreflex function. Shi X, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1359–63

Slowing of carotid–cardiac baroreflex with standing and with isometric and dynamic muscle activity. Sundblad P, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1363–9

Baroreflex dysfunction after nasopharyngectomy and bilateral carotid isolation. Lee HT, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr;123(4):434–7

Hemodynamic strategies in blood pressure regulation during orthostatic challenge in women. Culham TL, et al. **Can J Appl Physiol** 1997 Aug;22(4):351–67

Sympathetic alternans. Evidence for arterial baroreflex control of muscle sympathetic nerve activity in congestive heart failure. Ando S, et al. **Circulation** 1997 Jan 21; 95(2):316–9

Arterial baroreflexes and ventricular tachycardia [letter; comment] De Ferrari GM, et al. **Circulation** 1997 Jan 21; 95(2):541–2. Comment on: Circulation 1996 Mar 1;93(5):1033–42.

Neural Mechanisms in Hypertension. Satellite symposium to the 16th scientific meeting of the International Society of Hypertension Strasbourg, France, 21 June 1996. Abstracts. **Fundam Clin Pharmacol** 1997;11 Suppl 1:1s–138s

A study comparing VVI and DDI pacing in elderly patients with carotid sinus syndrome. McIntosh SJ, et al. **Heart** 1997 Jun;77(6):553–7

Impaired baroreflex sensitivity is correlated with hemodynamic deterioration of sustained ventricular tachycardia. Landolina M, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):568–75

Depressed baroreflex in heart failure is not due to structural change in carotid sinus nerve fibers. Wang W, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):101–8

Sympathetic and baroreceptor reflex function in neurally mediated syncope evoked by tilt. Mosqueda–Garcia R, et al. **J Clin Invest** 1997 Jun 1;99(11):2736–44

Adenosine triphosphate attenuates renal sympathetic nerve activity through left ventricular chemosensitive receptors. Taneyama C, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):570–5

The effect of hypoxia on baroreflexes and pressor sensitivity in sleep apnea and hypertension. Ziegler MG, et al. **Sleep** 1995 Dec;18(10):859–65

[Short term blood pressure variability and baroreflex sensitivity in mild and moderate hypertensive patients "dipper and non dipper"] Herpin D, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1087–90 (Eng. Abstr.) **(Fre)**

[Hypersensitive carotid sinus syndrome] Sagara K. **Ryoikibetsu Shokogun Shirizu** 1996;(12):271–3 (6 ref.) **(Jpn)**

DRUG EFFECTS

Effect of amlodipine on norepinephrine kinetics and baroreflex function in patients with congestive heart failure. Goldsmith SR. **Am Heart J** 1997 Jul;134(1):13–9

Baroreflex control of muscle sympathetic nerve activity in mild hypertension. Meyrelles SS, et al. **Am J Hypertens** 1997 Feb;10(2):162–7

Chronic ANG II infusion and reflex control of norepinephrine and corticosterone in conscious rabbits. Brooks VL, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R487–96

Influence of circulating angiotensin II and vasopressin on neurons of the nucleus of the solitary tract. Hegarty AA, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R675–81

Arginine vasopressin modulation of arterial baroreflex responses in fetal and newborn sheep. Nuyt AM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1643–53

Depressed baroreflex sensitivity in patients with obstructive sleep apnea. Carlson JT, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1490–6

The effects of bupivacaine and ropivacaine on baroreflex sensitivity with or without respiratory acidosis and alkalosis in rats. Watanabe Y, et al. **Anesth Analg** 1997 Feb; 84(2):398–404

Patterns of heart rate responses to hydralazine in normotensive and hypertensive rats. Vidrio H. **Arch Med Res** 1996 Autumn;27(3):299–303

Effects of fentanyl, nitrous oxide, or both, on baroreceptor reflex regulation in the cat. Lennander O, et al. **Br J Anaesth** 1996 Sep;77(3):399–403

Centrally infused galanin–(1–15) but not galanin–(1–29) reduces the baroreceptor reflex sensitivity in the rat. Díaz Z, et al. **Brain Res** 1996 Nov 25;741(1–2):32–7

Baroreflex and chemoreflex dysfunction in streptozotocin–diabetic rats. Dall'Ago P, et al. **Braz J Med Biol Res** 1997 Jan;30(1):119–24

Modulatory effects of nitric oxide on baroreflex activation in the brainstem nuclei of rats. Lo WJ, et al. **Chin J Physiol** 1996;39(1):57–62

Effects of chronic ACE inhibition on sympathetic nerve traffic and baroreflex control of circulation in heart failure. Grassi G, et al. **Circulation** 1997 Aug 19;96(4):1173–9

Blockade of brain 'ouabain' prevents the impairment of baroreflexes in rats after myocardial infarction. Huang BS, et al. **Circulation** 1997 Sep 2;96(5):1654–9

Interactions between vasopressin and baroreflex control of the sympathetic nervous system. Hasser EM, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):102–8 (53 ref.)

Isoproterenol infusion provokes vasovagal response without upright tilt in a patient exhibiting syncopal episodes. Shihara M, et al. **Heart Vessels** 1995;10(5):279–82

Baroreflex impairment by low sodium diet in mild or moderate essential hypertension. Grassi G, et al. **Hypertension** 1997 Mar;29(3):802–7

Arterial baroreceptor–cardiac reflex sensitivity in the elderly. James MA, et al. **Hypertension** 1996 Dec;28(6):953–60

Angiotensin II blockade [corrected] enhances baroreflex control of sympathetic outflow in heart failure [published erratum appears in Hypertension 1997 May;29(5):1211] Murakami H, et al. **Hypertension** 1997 Feb;29(2):564–9

Improvement in baroreflex function by an oral angiotensin receptor antagonist in rats with myocardial infarction. Nishizawa M, et al. **Hypertension** 1997 Jan;29(1 Pt 2):458–63

Differential central modulation of the baroreflex by salt loading in normotensive and spontaneously hypertensive rats. Ono A, et al. **Hypertension** 1997 Mar;29(3):808–14

Sympathoexcitatory response to cyclosporin A and baroreflex resetting. Ryuzaki M, et al. **Hypertension** 1997 Feb;29(2):576–82

ANP enhances bradycardic reflexes in normotensive but not spontaneously hypertensive rats. Thomas CJ, et al. **Hypertension** 1997 May;29(5):1126–32

Sodium intake, angiotensin II receptor blockade, and baroreflex function in conscious rats. Xu L, et al. **Hypertension** 1997 Jan;29(1 Pt 2):450–7

Insulin microinjection into the nucleus tractus solitarii of the rat attenuates the baroreceptor reflex. McKernan AM, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):128–38

Blood-pressure variability is buffered by nitric oxide. Nafz B, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):181–3

Cardiovascular effects of intrathecally injected mu, delta and kappa opioid receptor agonists in rabbits. Oğütman C, et al. **J Auton Pharmacol** 1995 Dec;15(6):443–50

Centrally administered calcium increases the maximum vagal activation of baroreceptor reflex control of heart rate in spontaneously hypertensive rats. Seto S, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):639–46

Prolonged cardiovascular effects of the N-type Ca2+ channel antagonist omega-conotoxin GVIA in conscious rabbits. Wright CE, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):392–9

Changes in baroreflex sensitivity induced by cilazapril do not manifest in Valsalva and tachycardia ratios in hypertensives. Hasegawa J, et al. **J Med** 1996;27(1–2):89–96

Amitraz depresses cardiovascular responses to bilateral carotid occlusion. Reynoldson JA, et al. **J Vet Pharmacol Ther** 1996 Feb;19(1):22–6

Orthostatic hypotension due to suppression of vasomotor outflow after amphetamine intoxication. Smit AA, et al. **Mayo Clin Proc** 1996 Nov;71(11):1067–70

Ethanol microinjection into the area postrema selectively attenuates baroreflex sensitivity measured by vasopressin in conscious rats. Mao L, et al. **Neurosci Lett** 1996 Dec 6;220(1):13–6

[Vasovagal syncope and increased baroreceptor activity: evidence for increased sensibility of the baroreflex and its rapid reversal with acute administration of metoprolol] Pucciarelli G, et al. **Cardiologia** 1997 Jul;42(7):721–7 (Eng. Abstr.) **(Ita)**

[The effect of calcium channel blockers on activity in the sympathetic nerves, on the vasomotor reflex and on cerebral circulation] Gan'shina TS, et al. **Eksp Klin Farmakol** 1996 Sep–Oct;59(5):12–7 (Eng. Abstr.) **(Rus)**

[The possible mechanism of the noradrenaline enhancement of the arterial baroreceptor reflex] Eremeev VS, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):48–56 (Eng. Abstr.) **(Rus)**

GENETICS

C-fos expression in central neurons mediating the arterial baroreceptor reflex. Minson JB, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):631–43

PHYSIOLOGY

Mid- and long-term reproducibility of noninvasive measurements of spontaneous arterial baroreflex sensitivity in healthy volunteers. Herpin D, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):790–7

Relation between baroreflex sensitivity and carotid artery elasticity in healthy humans. Bonyhay I, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1139–44

Chronic ANG II infusion and reflex control of norepinephrine and corticosterone in conscious rabbits. Brooks VL, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R487–96

Altered heart rate baroreflex during pregnancy: role of sympathetic and parasympathetic nervous systems. Brooks VL, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R960–6

Daily exercise and gender influence arterial baroreflex regulation of heart rate and nerve activity. Chen CY, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1840–8

Participation of galanin in baroreflex inhibition of heart rate by hypothalamic PVN in rat. Chen YL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1823–8

Effects of vestibular and oculomotor stimulation on responsiveness of the carotid-cardiac baroreflex. Convertino VA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R615–22

Modeling of arterial and cardiopulmonary baroreflex control of heart rate. Desai TH, et al. **Am J Physiol** 1997 May; 272(5 Pt 2):H2343–52

Effect of endogenous angiotensin II on renal nerve activity and its arterial baroreflex regulation. DiBona GF, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R361–7

Baroreflex frequency-response characteristics to aortic depressor and carotid sinus nerve stimulation in rats. Fan W, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2218–27

Alterations in the cardiovascular control by the chemoreflex and the baroreflex in old rats. Franchini KG, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R310–3

Role of parabrachial nucleus in baroreflex-mediated coronary vasoconstriction. Gutterman DD, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1079–86

Augmented baroreflex heart rate gain after moderate-intensity, dynamic exercise. Halliwill JR, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R420–6

Invariance of the resistance to venous return to carotid sinus baroreflex control. Hatanaka T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1022–30

Converting enzyme inhibitors cause pressure-independent resetting of baroreflex control of sympathetic outflow. Heesch CM, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R728–37

Baroreflex control of sinus node during dynamic exercise in humans: effects of central command and muscle reflexes. Iellamo F, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1157–64

Neural arc of baroreflex optimizes dynamic pressure regulation in achieving both stability and quickness. Ikeda Y, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H882–90

Closed-loop identification of carotid sinus baroreflex open-loop transfer characteristics in rabbits. Kawada T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H1024–31

Involvement of AT2 receptors at NRVL in tonic baroreflex suppression by endogenous angiotensins. Lin KS, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2204–10

Frequency and amplitude of sympathetic discharges by baroreflexes during hypoxia in conscious rabbits. Malpas SC, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2563–74

Smoking impairs baroreflex sensitivity in humans. Mancia G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1555–60

Effects of pregnancy and progesterone metabolites on arterial baroreflex in conscious rats. Masilamani S, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R924–34

Inhibition of NO synthesis minimally affects the dynamic baroreflex regulation of sympathetic nerve activity. Miyano H, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2446–52

Role of AMPA/kainate receptors in transmission of the sympathetic baroreflex in rat CVLM. Miyawaki T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R800–12

Cardiovascular reflex responses to ischemia during occlusion of celiac and/or superior mesenteric arteries. Rendig SV, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H791–6

Brain angiotensin II tonically modulates sympathetic baroreflex in rabbit ventrolateral medulla. Saigusa T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1015–21

Ontogeny of the arterial and cardiopulmonary baroreflex during fetal and postnatal life. Segar JL. **Am J Physiol** 1997 Aug;273(2 Pt 2):R457–71 (148 ref.)

Role of endogenous ANG II and AT1 receptors in regulating arterial baroreflex responses in newborn lambs. Segar JL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1862–73

Modulation of baroreflex sensitivity and spectral power of blood pressure by heat stress and aging. Stauss HM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H776–84

A comprehensive model for right-left heart interaction under the influence of pericardium and baroreflex. Sun Y, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1499–515

Short-term control of cardiovascular function: estimation of control parameters in healthy humans. Toska K, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H651–60

Pressure-heart rate relationship in intact and after stepwise elimination of three major baroreflex loops in dogs. Behnia R, et al. **Anesth Analg** 1996 Nov;83(5):965–74

Assessment of spontaneous baroreflex sensitivity in neonates. Drouin E, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F108–12

Effects of hypovolemia on aortic baroreflex control of heart rate in humans. Convertino VA, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):838–43

Effects of hypovolemia and posture on responses to the Valsalva maneuver. Luster EA, et al. **Aviat Space Environ Med** 1996 Apr;67(4):308–13

Effects of dietary lipid modification on adrenoceptor-mediated cardiovascular responsiveness and baroreflex sensitivity in normotensive subjects. Straznicky NE, et al. **Blood Press** 1997 Mar;6(2):96–102

Effects of age on cardiovascular responses to adrenaline in man. White M, et al. **Br J Clin Pharmacol** 1997 Apr; 43(4):407–14

Static muscle contraction elicits a baroreflex-dependent increase in glutamate concentration in the ventrolateral medulla. Hand GA, et al. **Brain Res** 1997 Feb 14; 748(1–2):211–8

Participation of Fos protein at the nucleus tractus solitarius in inhibitory modulation of baroreceptor reflex response in the rat. Shih CD, et al. **Brain Res** 1996 Oct 28; 738(1):39–47

Participation of endogenous galanin in the suppression of baroreceptor reflex response by locus coeruleus in the rat. Shih CD, et al. **Brain Res** 1996 May 20;721(1–2):76–82

Central integration of the Bezold-Jarish reflex in the cat. Vayssettes-Courchay C, et al. **Brain Res** 1997 Jan 9; 744(2):272–8

Acute and persistent effects of a 46-kilometer wilderness trail run at altitude: cardiovascular autonomic modulation and baroreflexes. Bernardi L, et al. **Cardiovasc Res** 1997 May; 34(2):273–80

Cardiopulmonary baroreflex control of human renal cortical blood flow [letter; comment] Eckberg DL. **Circulation** 1997 Aug 5;96(3):1044–5. Comment on: Circulation 1995 Aug 1;92(3):395–401.

Circadian rhythms of cardiovascular functions are modulated by the baroreflex and the autonomic nervous system in the rat. Makino M, et al. **Circulation** 1997 Sep 2; 96(5):1667–74

Origin of respiratory sinus arrhythmia in conscious humans. An important role for arterial carotid baroreceptors. Piepoli M, et al. **Circulation** 1997 Apr 1;95(7):1813–21

Baroreflex sensitivity in patients with vasovagal syncope. Thomson HL, et al. **Circulation** 1997 Jan 21;95(2):395–400

Effect of postural changes on arterial baroreflex sensitivity assessed by the spontaneous sequence method and Valsalva manoeuvre in healthy subjects. Kardos A, et al. **Clin Auton Res** 1997 Jun;7(3):143–8

C-fos expression in central neurons mediating the arterial baroreceptor reflex. Minson JB, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):631–43

Reflex sympathetic function in cortisol-induced hypertension in humans. Tam SH, et al. **Clin Exp Hypertens** 1997 May; 19(4):479–93

Baroreflex control of heart rate during hypoxia and hypercapnia in chronically hypertensive rabbits. Groom AS, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr; 24(3–4):229–34

Interactions between vasopressin and baroreflex control of the sympathetic nervous system. Hasser EM, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):102–8 (53 ref.)

Non-invasive assessment of baroreflex sensitivity and relation to measures of heart rate variability in man. Pellizzer AM, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):621–4

Baroreflex control of coronary blood flow varies regionally in awake dogs. Quail AW, et al. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov; 23(10–11):866–73

Baroreceptors in the carotid sinus contribute to arterial baroreceptor reflexes in normotensive rats. Ohta H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S62–3

Role of baroreflex and central alpha2-adrenergic receptor systems in the diurnal variation of blood pressure and heart rate in normotensive and hypertensive rats. Yoneda Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S64–6

Post-exercise depression of baroreflex slowing of the heart in humans. Ulman LG, et al. **Clin Physiol** 1997 May; 17(3):299–309

The role of pressure pulsatility in the carotid baroreflex control: a computer simulation study. Ursino M, et al. **Comput Biol Med** 1996 Jul;26(4):297–314

Is impaired baroreflex sensitivity a predictor or cause of sudden death in insulin-dependent diabetes mellitus? Lawrence IG, et al. **Diabet Med** 1997 Jan;14(1):82–5

Assessment of baroreceptor-cardiac reflex sensitivity using time domain analysis in patients with IDDM and the relation to left ventricular mass index. Weston PJ, et al. **Diabetologia** 1996 Nov;39(11):1385–91

Good exercise capacity at hospital discharge predicts recovery of baroreflex sensitivity after myocardial infarction. Hartikainen J, et al. **Eur Heart J** 1995 Nov; 16(11):1520–5

Resistance exercise training and the orthostatic response. McCarthy JP, et al. **Eur J Appl Physiol** 1997;76(1):32–40

Effects of aerobic exercise training and yoga on the baroreflex in healthy elderly persons. Bowman AJ, et al. **Eur J Clin Invest** 1997 May;27(5):443–9

Baroreflex regulation of blood pressure during dynamic exercise. Raven PB, et al. **Exerc Sport Sci Rev** 1997; 25:365–89 (84 ref.)

Effects of moderate hypothermia on baroreflex and pulmonary chemoreflex heart rate response in decerebrate ferrets. Zheng F, et al. **Exp Physiol** 1996 May;81(3):409–20

Can abnormalities of ventricular repolarisation identify insulin dependent diabetic patients at risk of sudden cardiac death? Weston PJ, et al. **Heart** 1997 Jul;78(1):56–60

Cardiopulmonary baroreflex in NaCl-induced hypertension in borderline hypertensive rats. Grisk O, et al. **Hypertension** 1997 Jan;29(1 Pt 2):464–70

Arterial baroreceptor-cardiac reflex sensitivity in the elderly. James MA, et al. **Hypertension** 1996 Dec;28(6):953–60

Baroreflex sensitivity assessed by complex demodulation of cardiovascular variability. Kim SY, et al. **Hypertension** 1997 May;29(5):1119–25

Baroreflex control of heart rate and cardiac hypertrophy in angiotensin II-induced hypertension in rabbits. Malpas SC, et al. **Hypertension** 1997 Jun;29(6):1284–90

Modeling of cardiovascular variability using a differential delay equation. Cavalcanti S, et al. **IEEE Trans Biomed Eng** 1996 Oct;43(10):982–9

Effects of acute hyperthermia on the carotid baroreflex control of heart rate in humans. Yamazaki F, et al. **Int J Biometeorol** 1997 Jun;40(4):200–5

Age-dependent changes in cardiac muscarinic receptor function in healthy volunteers. Poller U, et al. **J Am Coll Cardiol** 1997 Jan;29(1):187–93

Reflex influences on renal nerve activity characteristics in nephrosis and heart failure. Dibona GF, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1232–9

Interaction between carotid and cardiopulmonary baroreflexes [letter; comment] Halliwill JR, et al. **J Appl Physiol** 1997 Feb;82(2):716–8. Comment on: J Appl Physiol 1996 Jun;80(6):1903–10.

Muscle chemoreflex alters carotid sinus baroreflex response in humans. Papelier Y, et al. **J Appl Physiol** 1997 Feb; 82(2):577–83

Arterial and cardiopulmonary baroreflexes in 60- to 69- vs. 18- to 36-yr-old humans [see comments] Shi X, et al. **J Appl Physiol** 1996 Jun;80(6):1903–10. Comment in: J Appl Physiol 1997 Feb;82(2):716–8.

Age-related changes in baroreflex control of heart rate and sympathetic nerve activity in healthy humans. Matsukawa

T, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):209–12
Cardiac baroreflex properties in myocardial infarcted rats. Meyrelles SS, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):163–8
Hypertension without cardiac hypertrophy does not induce a cardiac baroreflex deficit. Banting JD, et al. **J Hypertens** 1996 Oct;14(10):1209–14
Spontaneous cardiac baroreceptor reflex and regional circulations in conscious rats. Ducher M, et al. **J Hypertens** 1996 Jul;14(7):865–9
Modifications of arterial baroreflexes: obligatory roles in cardiovascular regulation in stress and poststress recovery. Nosaka S. **Jpn J Physiol** 1996 Aug;46(4):271–88 (198 ref.)
Role of arginine vasopressin in the regulation of extracellular fluid volume. Norsk P. **Med Sci Sports Exerc** 1996 Oct; 28(10 Suppl):S36–41 (25 ref.)
Heart rate control during exercise by baroreceptors and skeletal muscle afferents. O'Leary DS. **Med Sci Sports Exerc** 1996 Feb;28(2):210–7 (55 ref.)
Diminished forearm vasomotor response to central hypervolemic loading in aerobically fit individuals. Shi X, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1388–95
Release of glutamate in the nucleus tractus solitarii in response to baroreflex activation in rats. Ohta H, et al. **Neuroscience** 1996 Sep;74(1):29–37
Clinical experience with Thera DR rate–drop response pacing algorithm in carotid sinus syndrome and vasovagal syncope. The International Rate–Drop Investigators Group. Benditt DG, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):832–9
The rate–drop response in carotid sinus syndrome: the Newcastle experience. Bexton RS, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):840
Cardiovascular syncope is the most common cause of drop attacks in the elderly. Dey AB, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):818–9
Prevalence of cardioinhibitory carotid sinus hypersensitivity in patients 50 years or over presenting to the accident and emergency department with "unexplained" or "recurrent" falls. Richardson DA, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):820–3
Changes in baroreceptor vagal reflex performance in the developing rat. Kasparov S, et al. **Pflugers Arch** 1997 Aug; 434(4):438–44
Absence of evidence for a powerful tonic baroreflex–mediated inhibition on catechol activity in the rat rostral ventrolateral medulla: in vivo voltammetric evidence during sino–aortic deafferentation. Rentero N, et al. **Pflugers Arch** 1997 Sep;434(5):599–608
Central ANG II receptor involved in carotid sinus reflex resetting in chronically stressed rats. Qian ZM, et al. **Physiol Behav** 1997 Aug;62(2):241–7
Bradycardia during baroreflex stimulation and active or passive stressor tasks: cardiorespiratory fitness and hostility. Graham RE, et al. **Psychophysiology** 1996 Sep;33(5):566–75
[Reproducibility of the blood pressure variability parameters by plethysmographic method (FINAPRES) in normotensive subject] Ragot S, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1029–33 (Eng. Abstr.) **(Fre)**
[Changes in the sensitivity of the baroreceptor reflex during the development of renal parenchymatous hypertension in waking cats] Rozin BD, et al. **Fiziol Zh** 1996;42(5–6):26–32 (Eng. Abstr.) **(Rus)**

BAROSMIN see **DIOSMIN**

BAROTRAUMA

see related
DECOMPRESSION SICKNESS

Barotraumatic fracture of the stapes footplate [letter; comment] Lehrer JF. **Am J Otol** 1997 Mar;18(2):266–7. Comment on: Am J Otol 1996 Sep;17(5):697–9.
Diagnosis and management of diving accidents. Smith DJ. **Med Sci Sports Exerc** 1996 May;28(5):587–90

COMPLICATIONS

Effect of increased middle ear pressure on blood flow to the middle ear, inner ear and facial nerve in guinea pigs. Nagai H, et al. **Acta Otolaryngol (Stockh)** 1996 May; 116(3):439–42
Episodic facial paralysis due to temporal bone pneumocele: a case report [letter] Ivers CR, et al. **Am J Otol** 1996 Nov; 17(6):893–5
Barotraumatic fracture of the stapes footplate [see comments] Whinney DJ, et al. **Am J Otol** 1996 Sep;17(5):697–9. Comment in: Am J Otol 1997 Mar;18(2):266–7.
Inner ear disorders due to pressure change. Kozuka M, et al. **Clin Otolaryngol** 1997 Apr;22(2):106–10
Subcutaneous emphysema, pneumomediastinum, pneumothorax, pneumopericardium, and pneumoperitoneum from rectal barotrauma. Mirzayan R, et al. **J Trauma** 1996 Dec;41(6):1073–5
Sinus barotrauma presenting as acute dental pain [letter] Kieser J. **S Afr Med J** 1997 Feb;87(2):184

DRUG THERAPY

In vivo role of glucocorticoids in barotrauma vascular repair and fibrosis. Karim MA, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1111–22

ETIOLOGY

Beneficial effects of the prone position on the incidence of barotrauma in oleic acid–induced lung injury under continuous positive pressure ventilation. Du HL, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):701–7
Pneumomediastinum in newborns induced by the Elder CPR/demand valve during resuscitation. Matsubara K, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):88–91
Barotrauma after stapes surgery: a survey of recommended restrictions and clinical experiences. Harrill WC, et al. **Am J Otol** 1996 Nov;17(6):835–45; discussion 845–6
Pulmonary barotrauma: diagnosis in American football players. Three cases in three years. Levy AS, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):227–9
Eustachian tube function and middle ear barotrauma associated with extremes in atmospheric pressure. Miyazawa T, et al. **Ann Otol Rhinol Laryngol** 1996 Nov; 105(11):887–92
Predictors of barotrauma events in a Navy altitude chamber. Davenport NA. **Aviat Space Environ Med** 1997 Jan; 68(1):61–5
Pulmonary barotrauma of a diver using an oxygen rebreathing diving apparatus. Tetzlaff K, et al. **Aviat Space Environ Med** 1996 Dec;67(12):1198–200
Clinically significant pulmonary barotrauma after inflation of party balloons. Mumford AD, et al. **BMJ** 1996 Dec 21–28;313(7072):1619
Computed tomography of the chest in diving–related pulmonary barotrauma. Reuter M, et al. **Br J Radiol** 1997 May;70(833):440–5
Pulmonary barotrauma in divers: can prospective pulmonary function testing identify those at risk? [editorial; comment] Bove AA. **Chest** 1997 Sep;112(3):576–8. Comment on: Chest 1997 Sep;112(3):654–9.
Risk factors for pulmonary barotrauma in divers [see comments] Tetzlaff K, et al. **Chest** 1997 Sep;112(3):654–9 . Comment in: Chest 1997 Sep;112(3):576–8.
Middle ear barotrauma in patients undergoing hyperbaric oxygen therapy. Blanshard J, et al. **Clin Otolaryngol** 1996 Oct;21(5):400–3
High–inflation pressure and positive end–expiratory pressure. Injurious to the lung? No. Nelson LD. **Crit Care Clin** 1996 Jul;12(3):603–25 (110 ref.)
High–inflation pressure and positive end–expiratory pressure. Injurious to the lung? Yes. Papadakos PJ, et al. **Crit Care Clin** 1996 Jul;12(3):627–34 (29 ref.)
Barotrauma from CPAP systems lacking pressure relief. **Health Devices** 1996 Sep;25(9):343–5
Barodontalgia among flyers: a review of seven cases. Holowatyj RE. **J Can Dent Assoc** 1996 Jul;62(7):578–84
Accidental pulmonary barotrauma: a tale of circuit DYS–connects. Doyle DJ. **J Clin Monit** 1996 Jan; 12(1):75–7
Inner and middle ear hyperbaric oxygen–induced barotrauma. Beuerlein M, et al. **Laryngoscope** 1997 Oct; 107(10):1350–6

PATHOLOGY

Effect of cardioplegia infusion pressure on coronary artery endothelium and cardiac mechanical function. Katayama O, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):751–62
Catheter ablation of canine ventricular myocardium. The use of repetitive short time constant capacitive shocks to increase lesion volume. Watanabe I, et al. **Jpn Heart J** 1997 Jan;38(1):107–15
[Scanning electron microscopic study of inner ear barotrauma: in the guinea pig under hypobaric pressure] Tanabe T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul; 99(7):991–8 (Eng. Abstr.) **(Jpn)**
[Electrophysiological study of inner ear barotrauma in guinea pigs; comparison with scanning electron microscopic findings] Tsuge H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Mar;100(3):307–15 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Episodic facial paralysis due to temporal bone pneumocele: a case report [letter] Ivers CR, et al. **Am J Otol** 1996 Nov; 17(6):893–5
[Electrophysiological study of inner ear barotrauma in guinea pigs; comparison with scanning electron microscopic findings] Tsuge H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Mar;100(3):307–15 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Prophylaxis against middle ear barotrauma in US hyperbaric oxygen therapy centers. Capes JP, et al. **Am J Emerg Med** 1996 Nov;14(7):645–8
Diving–related emergencies. Hardy KR. **Emerg Med Clin North Am** 1997 Feb;15(1):223–40 (76 ref.)

RADIOGRAPHY

[Diving–associated pulmonary barotrauma as a rare differential diagnosis in internal medicine–pneumologic ambulatory care] Tetzlaff K, et al. **Pneumologie** 1996 Dec; 50(12):902–5 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Functional bone imaging in the detection of ischemic osteopathies. MacLeod MA, et al. **Clin Nucl Med** 1997 Jan; 22(1):1–5

SURGERY

The application of endoscopic sinus surgery to the treatment of recurrent sinus barotrauma. O'Reilly BJ, et al. **Clin Otolaryngol** 1996 Dec;21(6):528–32

THERAPY

Management of primary blast injury. Argyros GJ. **Toxicology** 1997 Jul 25;121(1):105–15 (57 ref.)

BARR BODIES see **SEX CHROMATIN**

BARRE–LIEOU SYNDROME see **SPINAL OSTEOPHYTOSIS**

BARRETT ESOPHAGUS

Barrett's ulcer: the clinical significance today. Komorowski RA, et al. **Am J Gastroenterol** 1996 Nov;91(11):2310–3
Clinical implications of Barrett's esophagus [see comments] Crooks GW, et al. **Arch Intern Med** 1996 Oct 28; 156(19):2174–80 (63 ref.). Comment in: Arch Intern Med 1997 May 12;157(9):1043. Comment in: Arch Intern Med 1997 May 26;157(10):1139.
p53 is frequently mutated in Barrett's metaplasia of the intestinal type. Campomenosi P, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):559–65
OESO World 5th Congress Paris, September 1996. Caygill CP. **Eur J Cancer Prev** 1997 Feb;6(1):78–9
The columnar–lined esophagus. History, terminology, and clinical issues. Spechler SJ. **Gastroenterol Clin North Am** 1997 Sep;26(3):455–66 (48 ref.)
Detecting, measuring, and managing Barrett's esophagus: the complete endoscopist's dilemma [editorial; comment] Sampliner RE. **Gastrointest Endosc** 1997 Jun;45(6):533–5. Comment on: Gastrointest Endosc 1997 Jun;45(6):456–62.
Esophageal columnar metaplasia (Barrett's esophagus). Spechler SJ. **Gastrointest Endosc Clin N Am** 1997 Jan; 7(1):1–18 (53 ref.)
[Barrett esophagus. Diagnosis and treatment] Cortesini C, et al. **Ann Ital Chir** 1995 Sep–Oct;66(5):625–8 (18 ref.) (Eng. Abstr.) **(Ita)**

BLOOD

Blood–group phenotypes, sulfomucins, and Helicobacter pylori in Barrett's esophagus. Torrado J, et al. **Am J Surg Pathol** 1997 Sep;21(9):1023–9

COMPLICATIONS

Barrett's esophagus: does the incidence of adenocarcinoma matter? [editorial; comment] Cameron AJ. **Am J Gastroenterol** 1997 Feb;92(2):193–4. Comment on: Am J Gastroenterol 1997 Feb;92(2):212–5.
The incidence of adenocarcinoma in Barrett's esophagus: a prospective study of 170 patients followed 4.8 years [see comments] Drewitz DJ, et al. **Am J Gastroenterol** 1997 Feb;92(2):212–5. Comment in: Am J Gastroenterol 1997 Feb;92(2):193–4.
The prevalence of colonic neoplasia in patients with Barrett's esophagus: prospective assessment in patients 50–80 years old. Poorman JC, et al. **Am J Gastroenterol** 1997 Apr; 92(4):592–6
Radical esophageal resection for adenocarcinoma arising in Barrett's esophagus. Collard JM, et al. **Am J Surg** 1997 Sep;174(3):307–11
Detection of Barrett's adenocarcinoma of the gastric cardia with sucrase isomaltase and p53. Iannettoni MD, et al. **Ann Thorac Surg** 1996 Nov;62(5):1460–5; discussion 1465–6
Development of adenocarcinoma in Barrett's oesophagus after successful antireflux surgery. Håkansson HO, et al. **Eur J Surg** 1997 Jun;163(6):469–71
Biomarkers for malignancy in the columnar–lined esophagus. Rustgi AK. **Gastroenterol Clin North Am** 1997 Sep; 26(3):599–606 (57 ref.)
Bile reflux in columnar–lined esophagus. Vaezi MF, et al. **Gastroenterol Clin North Am** 1997 Sep;26(3):565–82 (48 ref.)
Detection of adenocarcinoma in Barrett's oesophagus by means of laser induced fluorescence. von Holstein CS, et al. **Gut** 1996 Nov;39(5):711–6
Helicobacter pylori infection and adenocarcinoma arising in Barrett's esophagus. Quddus MR, et al. **Hum Pathol** 1997 Sep;28(9):1007–9
Fistular complication of gastric ectopia in the proximal oesophagus and pyriform sinus. Guido E, et al. **Ital J Gastroenterol** 1996 Apr;28(3):160–2
Synchronous primary neuroendocrine carcinoma and adenocarcinoma in Barrett's esophagus. Saw EC, et al. **J Clin Gastroenterol** 1997 Mar;24(2):116–9
Review: Barrett's oesophagus in Taiwan. Chen PH. **J Gastroenterol Hepatol** 1997 Jun;12(6):S19–22 (41 ref.)
Co–morbidities in childhood Barrett's esophagus. Hassall E. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):255–60 (60 ref.)
Epigastric pain unrelieved by omeprazole. Weber L. **J Tenn Med Assoc** 1996 Mar;89(3):84–5

Esophageal carcinoma: current controversies. DeMeester TR. **Semin Surg Oncol** 1997 Jul–Aug;13(4):217–33 (93 ref.)
Barrett's cancer: indications, extent, and results of surgical resection. Siewert JR, et al. **Semin Surg Oncol** 1997 Jul–Aug;13(4):245–52 (54 ref.)
High grade dysplasia/esophageal adenocarcinoma in short segment Barrett's esophagus. Iqbal M, et al. **South Med J** 1997 Aug;90(8):828–30
[Clinical images in gastroenterology. Barrett esophagus of distinctive type and adenocarcinoma] Barinagarrementeria Aldatz R, et al. **Rev Gastroenterol Mex** 1997 Jan–Mar; 62(1):58 **(Spa)**

DIAGNOSIS

Detection of p53 nuclear protein accumulation in brushings and biopsies of Barrett's esophagus. Tsai TT, et al. **Cancer Detect Prev** 1997;21(4):326–31
Dysplasia in Barrett's esophagus: diagnosis, surveillance and treatment [see comments] Clark GW, et al. **Dig Dis** 1996 Jul–Aug;14(4):213–27 (94 ref.). Comment in: Dig Dis 1996 Jul–Aug;14(4):211–2.
Surveillance of Barrett's esophagus: a need for guidelines? Ackroyd R, et al. **Dis Esophagus** 1997 Jul;10(3):185–9
Role of surveillance endoscopy, biopsy and biomarkers in early detection of Barrett's adenocarcinoma. Ellis FH Jr, et al. **Dis Esophagus** 1997 Jul;10(3):165–71 (85 ref.)
Endoscopic features of the columnar–lined esophagus. Tytgat GN. **Gastroenterol Clin North Am** 1997 Sep;26(3):507–17 (23 ref.)
Bulimia nervosa complicated by Barrett's esophagus and esophageal cancer. Navab F, et al. **Gastrointest Endosc** 1996 Oct;44(4):492–4 (15 ref.)
Short segment Barrett's oesophagus: prevalence, diagnosis and associations [see comments] Nandurkar S, et al. **Gut** 1997 Jun;40(6):710–5. Comment in: Gut 1997 Jun;40(6):804.
Barrett's esophagus and adenocarcinoma. The need for a consensus conference [editorial] Richter JE, et al. **J Clin Gastroenterol** 1996 Sep;23(2):88–90
[The status of diagnosis of Barrett esophagus. An analysis of 1000 histologically diagnosed cases (see comments)] Grunewald M, et al. **Dtsch Med Wochenschr** 1997 Apr 4; 122(14):427–31 (Eng. Abstr.). Comment in: Dtsch Med Wochenschr 1997 Apr 4;122(14):425–6. **(Ger)**
[Barrett esophagus: features of structure and diagnostic tactics] Gomoliako IV, et al. **Klin Khir** 1996;(5):46–9 (30 ref.) **(Rus)**

DRUG THERAPY

Lansoprazole heals erosive reflux oesophagitis in patients with Barrett's oesophagus. Sontag SJ, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):147–56
Omeprazole and Barrett's regression: is asymptomatic good enough? Krueger KJ, et al. **Am J Gastroenterol** 1997 Jan; 92(1):177–8
Normalization of esophageal pH with high–dose proton pump inhibitor therapy does not result in regression of Barrett's esophagus [see comments] Sharma P, et al. **Am J Gastroenterol** 1997 Apr;92(4):582–5. Comment in: Am J Gastroenterol 1997 Apr;92(4):556–8.
Inhibiting acid production does not lead to reversion of Barrett's esophagus [letter; comment] Bozymski EM. **Arch Intern Med** 1997 May 12;157(9):1043. Comment on: Arch Intern Med 1996 Oct 28;156(19):2174–80.
Eradication of high–grade dysplasia using 5–ALA and acid suppression: a (photo)dynamic duo. Heller SJ, et al. **Gastroenterology** 1997 Jun;112(6):2156–8
Partial regression of Barrett's esophagus by long–term therapy with high–dose omeprazole. Malesci A, et al. **Gastrointest Endosc** 1996 Dec;44(6):700–5
Photodynamic therapy for Barrett's esophagus. Overholt BF, et al. **Gastrointest Endosc Clin N Am** 1997 Apr;7(2):207–20
Therapeutic potential of NSAIDs and omeprazole in the oesophagus [letter; comment] Morgan GP. **Scand J Gastroenterol** 1997 Jan;32(1):95. Comment on: Scand J Gastroenterol 1996 Aug;31(8):753–8.

EPIDEMIOLOGY

Erosive esophagitis and Barrett's esophagus in Taiwan: a higher frequency than expected. Yeh C, et al. **Dig Dis Sci** 1997 Apr;42(4):702–6
Epidemiology of columnar–lined esophagus and adenocarcinoma. Cameron AJ. **Gastroenterol Clin North Am** 1997 Sep;26(3):487–94 (60 ref.)
Columnar–lined esophagus in children. Hassall E. **Gastroenterol Clin North Am** 1997 Sep;26(3):533–48 (86 ref.)
Increasing incidence of Barrett's oesophagus: education, enthusiasm, or epidemiology? [letter] Prach AT, et al. **Lancet** 1997 Sep 27;350(9082):933
Epidemiology and molecular biology of Barrett's adenocarcinoma. Altorki NK, et al. **Semin Surg Oncol** 1997 Jul–Aug;13(4):270–80 (189 ref.)

ETIOLOGY

The relationship between gastroesophageal reflux disease and its complications with Barrett's esophagus [see comments] Eisen GM, et al. **Am J Gastroenterol** 1997 Jan;92(1):27–31 . Comment in: Am J Gastroenterol 1997 Jan;92(1):1–3.
Barrett's esophagus: what do we really know about this disease? [editorial; comment] Fennerty MB. **Am J Gastroenterol** 1997 Jan;92(1):1–3. Comment on: Am J Gastroenterol 1997 Jan;92(1):27–31.
Risk factors for Barrett's esophagus in community–based practice. GORGE consortium. Gastroenterology Outcomes Research Group in Endoscopy. Lieberman DA, et al. **Am J Gastroenterol** 1997 Aug;92(8):1293–7
Quantification of duodenogastric reflux in Barrett's esophagus. Lirón R, et al. **Am J Gastroenterol** 1997 Jan; 92(1):32–6
Gastric surgery does not increase the risk of developing Barrett's esophagus. Parrilla P, et al. **Am J Gastroenterol** 1997 Jun;92(6):960–3
GERD, DGER, or both in Barrett's esophagus? Sharma P, et al. **Am J Gastroenterol** 1997 May;92(5):903–4
Etiology of Barrett's metaplasia and esophageal adenocarcinoma. Kim R, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):369–77 (124 ref.)
The roles of excessive gastro–oesophageal reflux, disordered oesophageal motility and decreased mucosal sensitivity in the pathogenesis of Barrett's oesophagus. Niemantsverdriet EC, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):515–9 (41 ref.)
Gastroesophageal reflux disease in patients with columnar–lined esophagus. Ter RB, et al. **Gastroenterol Clin North Am** 1997 Sep;26(3):549–63 (94 ref.)
Short answer in short segment Barrett's oesophagus[comment] Ireland A, et al. **Gut** 1997 Jun; 40(6):804. Comment on: Gut 1997 Jun;40(6):710–5.

GENETICS

APC gene alterations in Barrett's metaplasia are implicated at an early stage in the carcinogenesis of esophageal adenocarcinoma. Fein M. **Am J Gastroenterol** 1997 Feb; 92(2):359–60
Barrett's esophagus. The significance of p53 in clinical practice. Ireland AP, et al. **Ann Surg** 1997 Jan;225(1):17–30 (80 ref.)
Infrequent microsatellite instability in oesophageal cancers. Muzeau F, et al. **Br J Cancer** 1997;75(9):1336–9 (40 ref.)
Increased expression of the cyclin D1 gene in Barrett's esophagus. Arber N, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):457–9
Cytogenetic analysis of Barrett's mucosa and adenocarcinoma of the distal esophagus and cardia. Menke–Pluymers MB, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):109–17
Allelic loss and mutational analysis of the DPC4 gene in esophageal adenocarcinoma. Barrett MT, et al. **Cancer Res** 1996 Oct 1;56(19):4351–3
p16INK4a promoter is hypermethylated at a high frequency in esophageal adenocarcinomas. Wong DJ, et al. **Cancer Res** 1997 Jul 1;57(13):2619–22
Barrett's esophagus: ordering the events that lead to cancer. Reid BJ, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:57–65
K–ras point mutations are rare events in premalignant forms of Barrett's oesophagus. Trautmann B, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):799–804
The molecular basis for carcinogenesis in metaplastic columnar–lined esophagus. Souza RF, et al. **Gastroenterol Clin North Am** 1997 Sep;26(3):583–97 (105 ref.)
Src activation in malignant and premalignant epithelia of Barrett's esophagus. Kumble S, et al. **Gastroenterology** 1997 Feb;112(2):348–56
Mutation analysis of the p53, APC, and p16 genes in the Barrett's oesophagus, dysplasia, and adenocarcinoma. González MV, et al. **J Clin Pathol** 1997 Mar;50(3):212–7
Allelic loss of 9p21 and mutation of the CDKN2/p16 gene develop as early lesions during neoplastic progression in Barrett's esophagus. Barrett MT, et al. **Oncogene** 1996 Nov 7;13(9):1867–73

METABOLISM

p53 Protein accumulation is a specific marker of malignant potential in Barrett's metaplasia. Younes M, et al. **Dig Dis Sci** 1997 Apr;42(4):697–701
Characterization of acid and alkaline reflux in patients with Barrett's esophagus. G.O.S.P.E. Operative Group for the study of Esophageal Precancer. D'Onofrio V, et al. **Dis Esophagus** 1997 Jan;10(1):16–22; discussion 22–3
Distribution of cytokeratin markers in Barrett's specialized columnar epithelium. Boch JA, et al. **Gastroenterology** 1997 Mar;112(3):760–5
MN antigen expression in normal, preneoplastic, and neoplastic esophagus: a clinicopathological study of a new cancer–associated biomarker. Turner JR, et al. **Hum Pathol** 1997 Jun;28(6):740–4
Transforming growth factor–alpha, epidermal growth factor receptor, and MiB–1 expression in Barrett's–associated neoplasia: correlation with prognosis. Yacoub L, et al. **Mod Pathol** 1997 Feb;10(2):105–12

MICROBIOLOGY

Blood–group phenotypes, sulfomucins, and Helicobacter pylori in Barrett's esophagus. Torrado J, et al. **Am J Surg Pathol** 1997 Sep;21(9):1023–9
Prevalence of Helicobacter pylori infection in 190 control subjects and in 236 patients with gastroesophageal reflux, erosive esophagitis or Barrett's esophagus. Csendes A, et al. **Dis Esophagus** 1997 Jan;10(1):38–42
Evaluation of Helicobacter pylori in reflux oesophagitis and Barrett's oesophagus. Newton M, et al. **Gut** 1997 Jan; 40(1):9–13

MORTALITY

Oesophageal cancer is an uncommon cause of death in patients with Barrett's oesophagus. van der Burgh A, et al. **Gut** 1996 Jul;39(1):5–8

PATHOLOGY

Barrett esophagus with dysplasia. Flow cytometric DNA analysis of routine, paraffin–embedded mucosal biopsies. Montgomery EA, et al. **Am J Clin Pathol** 1996 Sep; 106(3):298–304
Barrett's esophagus, high–grade dysplasia, and early adenocarcinoma: a pathological study. Cameron AJ, et al. **Am J Gastroenterol** 1997 Apr;92(4):586–91
Mucosa–associated lymphoid tissue (MALT) in Barrett's esophagus: prospective evaluation and association with gastric MALT, MALT lymphoma, and Helicobacter pylori. Weston AP, et al. **Am J Gastroenterol** 1997 May; 92(5):800–4
Prospective long–term endoscopic and histological follow–up of short segment Barrett's esophagus: comparison with traditional long segment Barrett's esophagus. Weston AP, et al. **Am J Gastroenterol** 1997 Mar;92(3):407–13
Reproducibility of p53 and Ki–67 immunoquantitation in Barrett's esophagus. Polkowski W, et al. **Anal Quant Cytol Histol** 1997 Jun;19(3):246–54
Cytokeratin profile suggests metaplastic epithelial transformation in Barrett's oesophagus. Salo JA, et al. **Ann Med** 1996 Aug;28(4):305–9
Apoptosis is inhibited early in the dysplasia–carcinoma sequence of Barrett esophagus. Katada N, et al. **Arch Surg** 1997 Jul;132(7):728–33
High–grade dysplasia in Barrett's oesophagus. Wright TA. **Br J Surg** 1997 Jun;84(6):760–6 (79 ref.)
Decrease in Le(x) expression in esophageal adenocarcinomas arising in Barrett's epithelium. Engel U, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr;6(4):245–8
Human erythrocyte glucose transporter (Glut1) is immunohistochemically detected as a late event during malignant progression in Barrett's metaplasia. Younes M, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May; 6(5):303–5
Prospective evaluation of intestinal metaplasia and dysplasia within the cardia of patients with Barrett's esophagus. Weston AP, et al. **Dig Dis Sci** 1997 Mar;42(3):597–602
Esophageal achalasia and adenocarcinoma in Barrett's esophagus: a report of two cases and a review of the literature. Ellis FH Jr, et al. **Dis Esophagus** 1997 Jan; 10(1):55–60 (25 ref.)
Prevalence, management and outcome of early adenocarcinoma (pT1) of the esophago–gastric junction. Comparison between early cancer in Barrett's esophagus (type I) and early cancer of the cardia (type II). Ruol A, et al. **Dis Esophagus** 1997 Jul;10(3):190–5
Helicobacter pylori colonization of Barrett's esophagus and its progression to cancer. Wright TA, et al. **Dis Esophagus** 1997 Jul;10(3):196–200
Morphology of Barrett's esophagus and Barrett's–associated dysplasia and adenocarcinoma. Antonioli DA, et al. **Gastroenterol Clin North Am** 1997 Sep;26(3):495–506 (52 ref.)
Surveillance of patients with Barrett's esophagus for dysplasia and cancer with balloon cytology [see comments] Falk GW, et al. **Gastroenterology** 1997 Jun;112(6):1787–97. Comment in: Gastroenterology 1997 Jun;112(6):2138–42.
Methylene blue selectively stains intestinal metaplasia in Barrett's esophagus. Canto MI, et al. **Gastrointest Endosc** 1996 Jul;44(1):1–7
Extent of Barrett's metaplasia: a prospective study of the serial change in area of Barrett's measured by quantitative endoscopic imaging [see comments] Kim R, et al. **Gastrointest Endosc** 1997 Jun;45(6):456–62. Comment in: Gastrointest Endosc 1997 Jun;45(6):533–5.
The diagnosis of Barrett's esophagus: goblets, goblets, goblets [editorial; comment] Weinstein WM, et al. **Gastrointest Endosc** 1996 Jul;44(1):91–5. Comment on: Gastrointest Endosc 1996 Jul;44(1):1–7.
p53 and p21(WAF1/CIP1/SDI1) gene products in Barrett esophagus and adenocarcinoma of the esophagus and esophagogastric junction. Moskaluk CA, et al. **Hum Pathol** 1996 Nov;27(11):1211–20
Metaplastic columnar cells in Barrett's esophagus: a common and neglected cell type. Offner FA, et al. **Hum Pathol** 1996 Sep;27(9):885–9
Acid modulation of HT29 cell growth and differentiation. An in vitro model for Barrett's esophagus. Fitzgerald RC, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):663–71
Barrett's adenocarcinoma in a patient with acquired immune deficiency syndrome. Chalasani N, et al. **J Clin Gastroenterol** 1997 Apr;24(3):184–6
Dynamic effects of acid on Barrett's esophagus. An ex vivo proliferation and differentiation model. Fitzgerald RC, et al. **J Clin Invest** 1996 Nov 1;98(9):2120–8
Multiple early esophageal cancers arising from Barrett's esophagus, and a review of cases of early adenocarcinoma in Barrett's esophagus in Japan. Itatsu T, et al.

J Gastroenterol 1997 Jun;32(3):389–95 (40 ref.)

A technique for the culture of Barrett's oesophageal cells. **Khan SM, et al. J Gastroenterol Hepatol** 1997 Aug; 12(8):606–11

Is columnar lined esophagus and Barrett's esophagus two names of a single entity? Qureshi H, et al. **JPMA J Pak Med Assoc** 1996 Oct;46(10):239–41 (52 ref.)

Transforming growth factor–alpha, epidermal growth factor receptor, and MiB–1 expression in Barrett's–associated neoplasia: correlation with prognosis. Yacoub L, et al. **Mod Pathol** 1997 Feb;10(2):105–12

Short and ultrashort Barrett's esophagus––what does it mean? Spechler SJ. **Semin Gastrointest Dis** 1997 Apr;8(2):59–67 (46 ref.)

Management of adenocarcinoma arising in Barrett's esophagus. DeMeester TR. **Semin Thorac Cardiovasc Surg** 1997 Jul;9(3):290–301 (38 ref.)

Management of Barrett's esophagus with dysplasia. Hagen JA. **Semin Thorac Cardiovasc Surg** 1997 Jul;9(3):285–9 (32 ref.)

Migration of the ductular elements of gut–associated glands gives clues to the histogenesis of structures associated with responses to acid hypersecretory state: the origins of "gastric metaplasia" in the duodenum of the specialized mucosa of barrett's esophagus and of pseudopyloric metaplasia. Wright NA. **Yale J Biol Med** 1996 Mar–Apr; 69(2):147–53 (24 ref.)

[Barrett esophagus and Barrett carcinoma] Kruyt PH, et al. **Ned Tijdschr Geneeskd** 1997 May 3;141(18):869–73 (35 ref.) (Eng. Abstr.) **(Dut)**

[Is an endoscopic–bioptic monitoring program for Barrett esophagus sensible? (comment)] Riemann JF. **Dtsch Med Wochenschr** 1997 Apr 4;122(14):425–6 (16 ref.) . Comment on: Dtsch Med Wochenschr 1997 Apr 4;122(14):427–31. **(Ger)**

[Case of Barrett esophageal neoplasm] Morita H, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):133–5 **(Jpn)**

PHYSIOPATHOLOGY

Barrett's esophagus: acid suppression, but no regression [editorial; comment] Bozymski EM, et al. **Am J Gastroenterol** 1997 Apr;92(4):556–8. Comment on: Am J Gastroenterol 1997 Apr;92(4):582–5.

Inhibiting acid production does not lead to reversion of Barrett's esophagus [letter; comment] Bozymski EM. **Arch Intern Med** 1997 May 12;157(9):1043. Comment on: Arch Intern Med 1996 Oct 28;156(19):2174–80.

Motility abnormalities in the columnar–lined esophagus. Lidums I, et al. **Gastroenterol Clin North Am** 1997 Sep; 26(3):519–31 (68 ref.)

Surveillance for Barrett's esophagus: are we saving lives? Grimm I, et al. **Gastroenterology** 1997 Feb;112(2):661–2

Barrett's esophagus: should we brush off this ballooning problem? [editorial; comment] Spechler SJ. **Gastroenterology** 1997 Jun;112(6):2138–42. Comment on: Gastroenterology 1997 Jun;112(6):1787–97.

Pathophysiology of Barrett's esophagus. Chandrasoma P. **Semin Thorac Cardiovasc Surg** 1997 Jul;9(3):270–8

Carcinoma of the oesophagus: the time for a multidiciplinary approach? Clark GW, et al. **Surg Oncol** 1996 Aug; 5(4):149–64 (118 ref.)

PREVENTION & CONTROL

Screening and Barrett's esophagus [letter; comment] Langdon DE. **Arch Intern Med** 1997 May 26;157(10):1139 . Comment on: Arch Intern Med 1996 Oct 28;156(19):2174–80.

NSAIDs, Barrett's oesophagus and adenocarcinoma prevention [letter] Vainio H, et al. **Eur J Cancer Prev** 1997 Apr;6(2):200

Cost effectiveness of detecting Barrett's cancer. Wright TA, et al. **Gut** 1996 Oct;39(4):574–9

Medical treatment of gastroesophageal reflux disease does not prevent the development of Barrett's metaplasia and poor esophageal body motility. Wetscher GJ, et al. **Langenbecks Arch Chir** 1997;382(2):95–9

[Barrett syndrome and risk of carcinoma. To screen or not to screen––that is the question] Eckardt VF. **Z Gastroenterol** 1997 Jul;35(7):597–9 **(Ger)**

SURGERY

Is there a surgical nirvana for Barett's esophagus? Oberg S, et al. **Am J Gastroenterol** 1996 Dec;91(12):2630–1

A new physiologic approach for the surgical treatment of patients with Barrett's esophagus: technical considerations and results in 65 patients [see comments] Csendes A, et al. **Ann Surg** 1997 Aug;226(2):123–33. Comment in: Ann Surg 1997 Aug;226(2):121–2.

A new approach for the surgical treatment of Barrett's esophagus [editorial; comment] Lillemoe KD. **Ann Surg** 1997 Aug;226(2):121–2. Comment on: Ann Surg 1997 Aug;226(2):123–33.

Extent of resection and lymphadenectomy in early Barrett's cancer. Korst RJ, et al. **Dis Esophagus** 1997 Jul;10(3):172–8 (42 ref.)

Endoscopic ablation of Barrett's epithelium [comment] de Caestecker JS. **Eur J Gastroenterol Hepatol** 1996 Jul; 8(7):619–21 (19 ref.). Comment on: Eur J Gastroenterol Hepatol 1996 Jul;8(7):627–30.

Failure of Nd–YAG photocoagulation therapy as treatment for Barrett's oesophagus––a pilot study [see comments] Luman W, et al. **Eur J Gastroenterol Hepatol** 1996 Jul; 8(7):627–30. Comment in: Eur J Gastroenterol Hepatol 1996 Jul;8(7):619–21.

Development of adenocarcinoma in Barrett's oesophagus after successful antireflux surgery. Håkansson HO, et al. **Eur J Surg** 1997 Jun;163(6):469–71

Surgical treatment of dysplasia and adenocarcinoma. DeMeester TR. **Gastroenterol Clin North Am** 1997 Sep; 26(3):669–84 (47 ref.)

The surgical management of Barrett's esophagus. Peters JH. **Gastroenterol Clin North Am** 1997 Sep;26(3):647–68 (53 ref.)

Ablation of Barrett's mucosa. Sampliner RE. **Gastroenterologist** 1997 Sep;5(3):185–8 (38 ref.)

Surgery for Barrett's esophagus: a stitch in time? van Dam J. **Gastroenterology** 1996 Nov;111(5):1395–7

[New site of adenocarcinoma after incomplete resection of endobrachyesophagus (letter)] Tenière P, et al. **Gastroenterol Clin Biol** 1997;21(6–7):527–8 **(Fre)**

THERAPY

Dysplasia in Barrett's esophagus: diagnosis, surveillance and treatment [see comments] Clark GW, et al. **Dig Dis** 1996 Jul–Aug;14(4):213–27 (94 ref.). Comment in: Dig Dis 1996 Jul–Aug;14(4):211–2.

Adenocarcinoma of the esophagus: preventable but at what cost? [editorial; comment] DeVault KR. **Dig Dis** 1996 Jul–Aug;14(4):211–2. Comment on: Dig Dis 1996 Jul–Aug;14(4):213–27.

Increased esophageal chemoreceptor sensitivity to acid in patients after successful reversal of Barrett's esophagus. Fass R, et al. **Dig Dis Sci** 1997 Sep;42(9):1853–8

Management of dysplasia in the columnar–lined esophagus. Levine DS. **Gastroenterol Clin North Am** 1997 Sep; 26(3):613–34 (202 ref.)

Ablative therapies for the columnar–lined esophagus. Sampliner RE. **Gastroenterol Clin North Am** 1997 Sep; 26(3):685–94 (52 ref.)

Reversal of Barrett's esophagus with acid suppression and multipolar electrocoagulation: preliminary results. Sampliner RE, et al. **Gastrointest Endosc** 1996 Nov; 44(5):532–5

A new method of endoscopic treatment for Barrett's esophagus [editorial] Wang KK, et al. **Gastrointest Endosc** 1996 Nov;44(5):627–9

New treatments for Barrett's esophagus. Sampliner RE. **Semin Gastrointest Dis** 1997 Apr;8(2):68–74 (42 ref.)

Management of Barrett's esophagus free of dysplasia. DeMeester SR. **Semin Thorac Cardiovasc Surg** 1997 Jul; 9(3):279–84 (25 ref.)

Management of Barrett's esophagus with dysplasia. Hagen JA. **Semin Thorac Cardiovasc Surg** 1997 Jul;9(3):285–9 (32 ref.)

[Barrett's esophagus with dysplasia: medical treatment with surveillance or resection?] Csendes A. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S20–2 **(Spa)**

ULTRASONOGRAPHY

Endosonography in columnar–lined esophagus. Waxman I. **Gastroenterol Clin North Am** 1997 Sep;26(3):607–12 (23 ref.)

High–resolution endoluminal sonography is a sensitive modality for the identification of Barrett's metaplasia. Adrain AL, et al. **Gastrointest Endosc** 1997 Aug; 46(2):147–51

BARRIERS, ARCHITECTURAL see **ARCHITECTURAL ACCESSIBILITY**

BARTHOLIN'S GLANDS

Serum testosterone, DHEAS, and prolactin levels in patients with a Bartholin's abscess. Lurie S, et al. **Arch Gynecol Obstet** 1997;259(4):167–8

Adenoid cystic carcinoma of Bartholin's gland [letter] Morita Y, et al. **Int J Gynaecol Obstet** 1996 Sep;54(3):279–80

[Chemo–extirpation of Bartholin cysts and abscesses] Maral I, et al. **Zentralbl Gynakol** 1996;118(3):172–3 **(Ger)**

PATHOLOGY

[Clinical case. Retention cyst of Bartholin's glands] Wollgarten B. **Tierarztl Prax** 1996 Feb;24(1):10, 29–30 **(Ger)**

[Primary carcinoma of Bartholin's glands with HPV 18 detection] Schwarzlos G, et al. **Zentralbl Gynakol** 1997; 119(3):133–5 (17 ref.) (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Bartholin gland abscess: sonographic findings. Abulafia O, et al. **J Clin Ultrasound** 1997 Jan;25(1):47–9

BARTONELLA

The expanding spectrum of Bartonella infections: I. Bartonellosis and trench fever. Bass JW, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):2–10 (80 ref.)

CLASSIFICATION

Comparison of partial citrate synthase gene (gltA) sequences for phylogenetic analysis of Bartonella species. Birtles RJ, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):891–7

DRUG EFFECTS

In vitro susceptibilities of Bartonella henselae, B. quintana, B. elizabethae, Rickettsia rickettsii, R. conorii, R. akari, and R. prowazekii to macrolide antibiotics as determined by immunofluorescent–antibody analysis of infected Vero cell monolayers. Ives TJ, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):578–82

GENETICS

A carboxy–terminal processing protease gene is located immediately upstream of the invasion–associated locus from Bartonella bacilliformis. Mitchell SJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1221–33

IMMUNOLOGY

Epidemiologic evaluation of the risk factors associated with exposure and seroreactivity to Bartonella vinsonii in dogs. Pappalardo BL, et al. **Am J Vet Res** 1997 May;58(5):467–71

Antibodies to Bartonella species in inner–city intravenous drug users in Baltimore, Md. Comer JA, et al. **Arch Intern Med** 1996 Nov 25;156(21):2491–5

The 75–kilodalton antigen of Bartonella bacilliformis is a structural homolog of the cell division protein FtsZ. Padmalayam I, et al. **J Bacteriol** 1997 Jul;179(14):4545–52

Prevalence of Bartonella species in domestic cats in The Netherlands. Bergmans AM, et al. **J Clin Microbiol** 1997 Sep;35(9):2256–61

ISOLATION & PURIFICATION

Histological and ultrastructural study of one case of oral bacillary angiomatosis in HIV disease and review of the literature. Monteil RA, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):65–71 (64 ref.)

Prevalence of Bartonella species in domestic cats in The Netherlands. Bergmans AM, et al. **J Clin Microbiol** 1997 Sep;35(9):2256–61

Coinfection with Bartonella clarridgeiae and Bartonella henselae and with different Bartonella henselae strains in domestic cats. Gurfield AN, et al. **J Clin Microbiol** 1997 Aug;35(8):2120–3

Prevalence of Bartonella henselae and Bartonella clarridgeiae in stray cats. Heller R, et al. **J Clin Microbiol** 1997 Jun; 35(6):1327–31

Bartonella clarridgeiae, a newly recognized zoonotic pathogen causing inoculation papules, fever, and lymphadenopathy (cat scratch disease). Kordick DL, et al. **J Clin Microbiol** 1997 Jul;35(7):1813–8

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 2–1997. A 38–year–old man with digital clubbing, low–grade fever, and a murmur [clinical conference] **N Engl J Med** 1997 Jan 16; 336(3):205–10

An analysis of lymph node DNA for possible bacterial agents of cat–scratch disease. Jevon GP, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):3–9

PATHOGENICITY

Bartonella spp. as emerging human pathogens. Anderson BE, et al. **Clin Microbiol Rev** 1997 Apr;10(2):203–19 (205 ref.)

Bartonella bacilliformis: dangerous pathogen slowly emerging from deep background. Ihler GM. **FEMS Microbiol Lett** 1996 Oct 15;144(1):1–11 (65 ref.)

An analysis of lymph node DNA for possible bacterial agents of cat–scratch disease. Jevon GP, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):3–9

Cell entry and the pathogenesis of Bartonella infections. Minnick MF, et al. **Trends Microbiol** 1996 Sep;4(9):343–7 (20 ref.)

[Rochalimaea and its role in human pathology] Demkin VV. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul–Aug; (4):99–104 (44 ref.) **(Rus)**

BARTONELLA HENSELAE

Cat scratch disease as a rare cause of obstructive jaundice: a case report. van Beek EJ, et al. **Abdom Imaging** 1997 Jul–Aug;22(4):418–20

Re: Imaging features of cat–scratch disease [letter; comment] Monnier–Cholley L, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1342–3. Comment on: AJR Am J Roentgenol 1996 Feb;166(2):435–8.

Cat–scratch disease and related clinical syndromes. Smith DL. **Am Fam Physician** 1997 Apr;55(5):1783–9, 1793–4 (34 ref.)

Experimentally induced Bartonella henselae infections followed by challenge exposure and antimicrobial therapy in cats. Regnery RL, et al. **Am J Vet Res** 1996 Dec; 57(12):1714–9

Granulomatous hepatitis and necrotizing splenitis due to Bartonella henselae in a patient with cancer: case report and review of hepatosplenic manifestations of bartonella infection. Liston TE, et al. **Clin Infect Dis** 1996 Jun; 22(6):951–7 (45 ref.)

Experimental and natural infection with Bartonella henselae in domestic cats. Abbott RC, et al.

Comp Immunol Microbiol Infect Dis 1997 Jan;20(1):41–51

Seroprevalence of immunoglobulin G antibodies to Bartonella henselae in cat owners [letter] Rath PM, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):326–7

Culture-negative endocarditis: contribution of bartonella infections. Breathnach AS, et al. **Heart** 1997 May; 77(5):474–6

Bartonella henselae infection in cats: evaluation during primary infection, treatment, and rechallenge infection. Greene CE, et al. **J Clin Microbiol** 1996 Jul;34(7):1682–5

Experimental infection of young specific pathogen-free cats with Bartonella henselae. Guptill L, et al. **J Infect Dis** 1997 Jul;176(1):206–16

Bartonella henselae infection mimicking systemic onset juvenile chronic arthritis in a 2 1/2-year-old girl. Hayem F, et al. **J Rheumatol** 1996 Jul;23(7):1263–5

Cat-scratch disease in a patient undergoing haemodialysis. Goral S, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):811–4

Cat-scratch disease and Bartonella henselae infections in children. Shenep JL. **Pediatr Ann** 1996 Sep;25(9):518–23

The expanding spectrum of Bartonella infections: II. Cat-scratch disease. Bass JW, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):163–79 (215 ref.)

Sternal abscess due to Bartonella (Rochalimaea) henselae in a renal transplant patient. Bruckert F, et al. **Skeletal Radiol** 1997 Jul;26(7):431–3

[Visceral granulomas and pericardial effusion caused by a Bartonella henselae infection] Bakker RC, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):388–90 (Eng. Abstr.) **(Dut)**

[2 patients with atypical manifestations of cat-scratch disease] Kusumanto YH, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):385–7 (Eng. Abstr.) **(Dut)**

[Cat scratch disease and associated infections] Chomel BB, et al. **Bull Acad Natl Med** 1997 Mar 18;181(3):441–50; discussion 451–4 (49 ref.) (Eng. Abstr.) **(Fre)**

[Cat-scratch disease. A report of 4 cases and a review of the literature] Diaz F, et al. **Rev Clin Esp** 1997 Jan; 197(1):28–30 (18 ref.) (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

The Etest for antimicrobial susceptibility testing of Bartonella henselae. Wolfson C, et al. **J Antimicrob Chemother** 1996 Dec;38(6):963–8

GENETICS

Cat scratch disease: detection of Bartonella henselae DNA in archival biopsies from patients with clinically, serologically, and histologically defined disease. Scott MA, et al. **Am J Pathol** 1996 Dec;149(6):2161–7

Cloning, expression and sequence analysis of the Bartonella henselae gene encoding the HtrA stress-response protein. Anderson B, et al. **Gene** 1996 Oct 31;178(1–2):35–8

Molecular diagnosis of cat scratch disease: a two-step approach. Avidor B, et al. **J Clin Microbiol** 1997 Aug; 35(8):1924–30

Detection and identification of two Bartonella henselae variants in domestic cats in Germany. Sander A, et al. **J Clin Microbiol** 1997 Mar;35(3):584–7

Identification of Bartonella henselae and B. quintana 16s rDNA sequences by branch-, genus- and species-specific amplification. Dauga C, et al. **J Med Microbiol** 1996 Sep; 45(3):192–9

IMMUNOLOGY

Immunologic response to Bartonella henselae as determined by enzyme immunoassay and Western blot analysis. Litwin CM, et al. **Am J Clin Pathol** 1997 Aug;108(2):202–9

Cat scratch disease in a child. Hsu CF, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Mar-Apr;38(2):152–4

Diagnostic value of the indirect immunofluorescence assay in cat scratch disease with Bartonella henselae and Afipia felis antigens. Amerein MP, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):200–4

Survey of veterinary professionals and other veterinary conference attendees for antibodies to Bartonella henselae and B quintana. Noah DL, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):342–4

Pitfalls and fallacies of cat scratch disease serology: evaluation of Bartonella henselae-based indirect fluorescence assay and enzyme-linked immunoassay. Bergmans AM, et al. **J Clin Microbiol** 1997 Aug; 35(8):1931–7

Detection of antibodies to Bartonella henselae in clinically diagnosed cat scratch disease. Flexman JP, et al. **Med J Aust** 1997 May 19;166(10):532–5

Serological study of Bartonella henselae in cat scratch disease in Japan. Yoshida H, et al. **Microbiol Immunol** 1996; 40(9):671–3

Comparative seroreactivity to Bartonella henselae and Bartonella quintana among cats from Israel and North Carolina. Baneth G, et al. **Vet Microbiol** 1996 May; 50(1–2):95–103

ISOLATION & PURIFICATION

The histologic spectrum of hepatic cat scratch disease. A series of six cases with confirmed Bartonella henselae infection. Lamps LW, et al. **Am J Surg Pathol** 1996 Oct; 20(10):1253–9

Prevalence of Bartonella henselae antibodies among human immunodeficiency virus-infected patients from Bahrain. Yousif A, et al. **Clin Infect Dis** 1996 Aug;23(2):398–9

Generalized infection with Bartonella henselae following infection due to Epstein-Barr virus. Zbinden R, et al. **Clin Infect Dis** 1996 Nov;23(5):1184–5

Rapid polymerase chain reaction-based detection of the causative agent of cat scratch disease (Bartonella henselae) in formalin-fixed, paraffin-embedded samples. Mouritsen CL, et al. **Hum Pathol** 1997 Jul;28(7):820–6

Isolation of Bartonella (Rochalimaea) henselae: effects of methods of blood collection and handling. Brenner SA, et al. **J Clin Microbiol** 1997 Mar;35(3):544–7

Prevalence of Bartonella henselae and Bartonella clarridgeiae in stray cats. Heller R, et al. **J Clin Microbiol** 1997 Jun; 35(6):1327–31

Serological cross-reactions between Bartonella quintana, Bartonella henselae, and Coxiella burnetii. La Scola B, et al. **J Clin Microbiol** 1996 Sep;34(9):2270–4

Detection and identification of two Bartonella henselae variants in domestic cats in Germany. Sander A, et al. **J Clin Microbiol** 1997 Mar;35(3):584–7

Bartonella (Rochalimaea) henselae in southern Africa--evidence for infections in domestic cats and implications for veterinarians. Kelly PJ, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):182–7

Portal triad involvement in cat-scratch disease [letter] Zinzindohoue F, et al. **Lancet** 1996 Oct 26;348(9035):1178–9

Prevalence of Bartonella henselae bacteremia, the causative agent of cat scratch disease, in an Australian cat population. Branley J, et al. **Pathology** 1996 Aug;28(3):262–5

Ease of isolation and semiquantitative culture of Bartonella henselae from cats in Melbourne [letter] Ng SO, et al. **Pathology** 1997 Aug;29(3):333–4

Unsuspected hepatosplenic involvement in patients hospitalized with cat-scratch disease. Estrada B, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):720–1

Evaluation of serological response to Bartonella henselae, Bartonella quintana and Afipia felis antigens in 64 patients with suspected cat-scratch disease. Dupon M, et al. **Scand J Infect Dis** 1996;28(4):361–6

[Cat-scratch disease--an overlooked disease in Denmark?] Blomgren M, et al. **Ugeskr Laeger** 1997 May 5; 159(19):2876–7 (Eng. Abstr.) **(Dan)**

[Cat-scratch disease in humans and the cat's role. Causative agents finally isolated (news)] Houwers DJ, et al. **Tijdschr Diergeneeskd** 1996 Nov 15;121(22):664 **(Dut)**

PATHOGENICITY

Will the real agent of cat-scratch disease please stand up? Jerris RC, et al. **Annu Rev Microbiol** 1996;50:707–25

Never discount an animal vector. Golledge C. **Aust Fam Physician** 1997 Jun;26(6):755

Pathogenic mechanisms of Bartonella henselae infections [letter] Fumarola D, et al. **Pediatr Infect Dis J** 1996 Apr; 15(4):385–6

PHYSIOLOGY

Relapsing bacteremia after blood transmission of Bartonella henselae to cats. Kordick DL, et al. **Am J Vet Res** 1997 May;58(5):492–7

Heat shock response and groEL sequence of Bartonella henselae and Bartonella quintana. Haake DA, et al. **Microbiology** 1997 Aug;143 (Pt 8):2807–15

BARTONELLA INFECTIONS

The expanding spectrum of Bartonella infections: I. Bartonellosis and trench fever. Bass JW, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):2–10 (80 ref.)

Pathogenic mechanisms of Bartonella henselae infections [letter] Fumarola D, et al. **Pediatr Infect Dis J** 1996 Apr; 15(4):385–6

[Rochalimaea spp. infections and associated diseases] Blanco JR, et al. **Med Clin (Barc)** 1996 Nov 2;107(15):593–6 (55 ref.) **(Spa)**

CLASSIFICATION

Bartonella infections. Loutit JS. **Curr Clin Top Infect Dis** 1997;17:269–90 (93 ref.)

COMPLICATIONS

Granulomatous hepatitis and necrotizing splenitis due to Bartonella henselae in a patient with cancer: case report and review of hepatosplenic manifestations of bartonella infection. Liston TE, et al. **Clin Infect Dis** 1996 Jun; 22(6):951–7 (45 ref.)

Bartonellosis and human immunodeficiency disease (AIDS): L-forms as persisters, activating factors, and mechanism of disease. Sood FH, et al. **Med Hypotheses** 1997 Jun; 48(6):511–5 (25 ref.)

DIAGNOSIS

Intermediate uveitis and retinal vasculitis as manifestations of cat scratch disease. Soheilian M, et al. **Am J Ophthalmol** 1996 Oct;122(4):582–4

Bartonella infections. Loutit JS. **Curr Clin Top Infect Dis** 1997;17:269–90 (93 ref.)

Serological cross-reactions between Bartonella and Chlamydia species: implications for diagnosis. Maurin M, et al. **J Clin Microbiol** 1997 Sep;35(9):2283–7

Bartonella henselae infection mimicking systemic onset juvenile chronic arthritis in a 2 1/2-year-old girl. Hayem F, et al. **J Rheumatol** 1996 Jul;23(7):1263–5

Sternal abscess due to Bartonella (Rochalimaea) henselae in a renal transplant patient. Bruckert F, et al. **Skeletal Radiol** 1997 Jul;26(7):431–3

[Illnesses caused by Bartonella. Cat-scratch disease, bacillary angiomatosis, bacillary peliosis hepatis, endocarditis] Nadal D, et al. **Internist (Berl)** 1996 Sep;37(9):890–4 (35 ref.) **(Ger)**

EPIDEMIOLOGY

Bartonellosis in Ecuador: serosurvey and current status of cutaneous verrucous disease. Amano Y, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):174–9

Seroprevalence of immunoglobulin G antibodies to Bartonella henselae in cat owners [letter] Rath PM, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):326–7

Bartonella (Rochalimaea) henselae in southern Africa--evidence for infections in domestic cats and implications for veterinarians. Kelly PJ, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):182–7

Bartonellosis in Zamora Chinchipe province in Ecuador. Cooper P, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun; 90(3):241–3

ETIOLOGY

Bartonella spp. as emerging human pathogens. Anderson BE, et al. **Clin Microbiol Rev** 1997 Apr;10(2):203–19 (205 ref.)

Cell entry and the pathogenesis of Bartonella infections. Minnick MF, et al. **Trends Microbiol** 1996 Sep;4(9):343–7 (20 ref.)

[Rochalimaea and its role in human pathology] Demkin VV. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul-Aug; (4):99–104 (44 ref.) **(Rus)**

HISTORY

Tropical medicine and bacteriology in Boston and Peru: studies of Carrión's disease in the early twentieth century. Cueto M. **Med Hist** 1996 Jul;40(3):344–64

MICROBIOLOGY

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 2-1997. A 38-year-old man with digital clubbing, low-grade fever, and a murmur [clinical conference] **N Engl J Med** 1997 Jan 16; 336(3):205–10

NURSING

Bartonella infections and HIV disease. Lindauer A. **J Assoc Nurses AIDS Care** 1996 Sep-Oct;7(5):37–42

PATHOLOGY

Image cytometry and topographical analysis of proliferation of endothelial cells in vitro during Bartonella (Rochalimaea) infection. Palmari J, et al. **Anal Cell Pathol** 1996 Jun;11(1):13–30

PHYSIOPATHOLOGY

Bacillary angiomatosis, cat-scratch disease, and bartonellosis: what's the connection? Nosal JM. **Int J Dermatol** 1997 Jun; 36(6):405–11 (21 ref.)

SURGERY

Culture-negative endocarditis: contribution of bartonella infections. Breathnach AS, et al. **Heart** 1997 May; 77(5):474–6

VETERINARY

Relapsing bacteremia after blood transmission of Bartonella henselae to cats. Kordick DL, et al. **Am J Vet Res** 1997 May;58(5):492–7

Epidemiologic evaluation of the risk factors associated with exposure and seroreactivity to Bartonella vinsonii in dogs. Pappalardo BL, et al. **Am J Vet Res** 1997 May;58(5):467–71

Bartonella henselae infection in cats: evaluation during primary infection, treatment, and rechallenge infection. Greene CE, et al. **J Clin Microbiol** 1996 Jul;34(7):1682–5

Coinfection with Bartonella clarridgeiae and Bartonella henselae and with different Bartonella henselae strains in domestic cats. Gurfield AN, et al. **J Clin Microbiol** 1997 Aug;35(8):2120–3

Prevalence of Bartonella henselae and Bartonella clarridgeiae in stray cats. Heller R, et al. **J Clin Microbiol** 1997 Jun; 35(6):1327–31

BARTONELLA QUINTANA

Culture-negative endocarditis: contribution of bartonella infections. Breathnach AS, et al. **Heart** 1997 May; 77(5):474–6

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 2-1997. A 38-year-old man with digital clubbing, low-grade fever, and a murmur [clinical conference] **N Engl J Med** 1997 Jan 16; 336(3):205–10

[Endocarditis of negative blood culture: search in the intra-cell! (letter)] Piroth L, et al. **Presse Med** 1996 Oct 5;25(29):1348 **(Fre)**

GENETICS

Identification of Bartonella henselae and B. quintana 16s rDNA sequences by branch-, genus- and species-specific amplification. Dauga C, et al. **J Med Microbiol** 1996 Sep; 45(3):192-9

GROWTH & DEVELOPMENT

Bartonella quintana invades and multiplies within endothelial cells in vitro and in vivo and forms intracellular blebs. Brouqui P, et al. **Res Microbiol** 1996 Nov-Dec; 147(9):719-31

IMMUNOLOGY

Emergence of Bartonella quintana infection among homeless persons. Jackson LA, et al. **Emerg Infect Dis** 1996 Apr-Jun; 2(2):141-4

Survey of veterinary professionals and other veterinary conference attendees for antibodies to Bartonella henselae and B quintana. Noah DL, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):342-4

Comparative seroreactivity to Bartonella henselae and Bartonella quintana among cats from Israel and North Carolina. Baneth G, et al. **Vet Microbiol** 1996 May; 50(1-2):95-103

ISOLATION & PURIFICATION

Isolation of Bartonella quintana from an HIV-positive patient with bacillary angiomatosis. Schmidt HU, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):736-41 (21 ref.)

Serological cross-reactions between Bartonella quintana, Bartonella henselae, and Coxiella burnetii. La Scola B, et al. **J Clin Microbiol** 1996 Sep;34(9):2270-4

Bartonella (Rochalimaea) quintana causing fever and bacteremia in an immunocompromised patient with non-Hodgkin's lymphoma. Rathbone P, et al. **Pathology** 1996 Jan;28(1):80-3

Evaluation of serological response to Bartonella henselae, Bartonella quintana and Afipia felis antigens in 64 patients with suspected cat-scratch disease. Dupon M, et al. **Scand J Infect Dis** 1996;28(4):361-6

PATHOGENICITY

Bartonella (Rochalimaea) quintana infections. Maurin M, et al. **Clin Microbiol Rev** 1996 Jul;9(3):273-92 (170 ref.)

PHYSIOLOGY

Heat shock response and groEL sequence of Bartonella henselae and Bartonella quintana. Haake DA, et al. **Microbiology** 1997 Aug;143 (Pt 8):2807-15

BARTONELLOSIS see **BARTONELLA INFECTIONS**

BARTTER'S DISEASE

[Bartter's syndrome. A condition with chronic hypokalemia] Brix TH, et al. **Ugeskr Laeger** 1996 Sep 16;158(38):5277-80 (38 ref.) (Eng. Abstr.) **(Dan)**

[Bartter syndrome] Katsuya T, et al. **Nippon Rinsho** 1996 Mar;54(3):801-6 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Bartter's syndrome, Gitelman's syndrome] Shibagaki Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):595-600 (21 ref.) **(Jpn)**

COMPLICATIONS

Sjögren's syndrome associated with hypokalemic myopathy due to Bartter's syndrome [letter] Higashi K, et al. **J Rheumatol** 1997 Aug;24(8):1663-4 (17 ref.)

Hypophosphataemia in a patient with Gitelman's syndrome. Katopodis K, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2090-2

Neonatal Bartter syndrome--use of indomethacin in the newborn period and prevention of growth failure. Mackie FE, et al. **Pediatr Nephrol** 1996 Dec;10(6):756-8

Neonatal Bartter's syndrome with hyperkalemia and normal urinary prostaglandin E2 [letter] Moudgil A, et al. **Pediatr Nephrol** 1997 Jun;11(3):387-8

DIAGNOSIS

Bartter's syndrome, supraventricular tachycardia, mitral valve prolapse, and asthma: a therapeutic challenge. Rodriguez DF, et al. **Am J Med Sci** 1997 Feb;313(2):114-6

Bartter's syndrome in pregnancy: a case report and review. O'Sullivan E, et al. **Am J Perinatol** 1997 Jan;14(1):55-7 (19 ref.)

Index of suspicion. Case 2. Severe developmental delay, polyuria, and nocturia strongly suggests Bartter syndrome. Baptist EC, et al. **Pediatr Rev** 1997 Jan;18(1):32, 33-4

[Pseudo-Bartter syndrome] Katsuya T, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):646-9 (10 ref.) **(Jpn)**

[Hypokalemic metabolic alkalosis with hypomagnesemia and hypocalciuria; Bartter's syndrome in Gitelman's variant--case report] Bień B, et al. **Pol Arch Med Wewn** 1995 Nov;94(5):442-6 (Eng. Abstr.) **(Pol)**

[Surreptitious intake of diuretics as the cause of pseudo-Bartter's syndrome: apropos of a case and differential diagnosis] Olveira Fuster G, et al. **An Med Interna** 1996 Oct;13(10):496-9 (Eng. Abstr.) **(Spa)**

[Differential diagnosis of Gitelman's syndrome and Bartter's syndrome, apropos of a case of metabolic alkalosis (letter) de Luis DA, et al. **Rev Clin Esp** 1996 Oct;196(10):725 **(Spa)**

DRUG THERAPY

Long-term follow-up of a girl with the neonatal form of Bartter's syndrome. Nakagawa Y, et al. **Endocr J** 1997 Apr; 44(2):275-81

EPIDEMIOLOGY

Bartter syndrome in Costa Rica: a description of 20 cases. Madrigal G, et al. **Pediatr Nephrol** 1997 Jun;11(3):296-301

ETIOLOGY

[Psychosomatic consequences of sexual abuse: a case of Bartter pseudo-syndrome in an anorexic patient] Martin-Du Pan RC, et al. **Rev Med Suisse Romande** 1997 Jun;117(6):495-500 (43 ref.) **(Fre)**

GENETICS

"The molecular basis of inherited hypokalemic alkalosis: Bartter's and Gitelman's syndromes" [editorial] Hebert SC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F957-9

The molecular basis of inherited hypokalemic alkalosis: Bartter's and Gitelman's syndromes. Simon DB, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F961-6 (32 ref.)

Mutations in the ROMK gene in antenatal Bartter syndrome are associated with impaired K+ channel function. Derst C, et al. **Biochem Biophys Res Commun** 1997 Jan 23; 230(3):641-5

Mutations in the gene encoding the inwardly-rectifying renal potassium channel, ROMK, cause the antenatal variant of Bartter syndrome: evidence for genetic heterogeneity. International Collaborative Study Group for Bartter-like Syndromes [published erratum appears in Hum Mol Genet 1997 Apr;6(4):650] **Hum Mol Genet** 1997 Jan;6(1):17-26

Three cases of Gitelman's syndrome possibly caused by different mutations in the thiazide-sensitive Na-Cl cotransporter. Takeuchi K, et al. **Intern Med** 1997 Aug; 36(8):582-5

Gitelman's syndrome (Bartter's variant) maps to the thiazide-sensitive cotransporter gene locus on chromosome 16q13 in a large kindred. Pollak MR, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2244-8

Association of a mutation in thiazide-sensitive Na-Cl cotransporter with familial Gitelman's syndrome. Takeuchi K, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4496-9

Genetic heterogeneity of Bartter's syndrome revealed by mutations in the K+ channel, ROMK. Simon DB, et al. **Nat Genet** 1996 Oct;14(2):152-6

Gitelman's syndrome is genetically distinct from other forms of Bartter's syndrome. Károlyi L, et al. **Pediatr Nephrol** 1996 Oct;10(5):551-4

METABOLISM

Abnormal reabsorption of Na+/Cl- by the thiazide-inhibitable transporter of the distal convoluted tubule in Gitelman's syndrome. Colussi G, et al. **Am J Nephrol** 1997;17(2):103-11

Pseudotumor cerebri in a patient with Bartter's syndrome and obesity [letter] Mendonca E, et al. **Nephron** 1996; 72(1):98-9

Variants of Bartter's syndrome [editorial; comment] McCredie DA. **Pediatr Nephrol** 1996 Aug;10(4):419-21 (36 ref.). Comment on: Pediatr Nephrol 1996 Aug;10(4):414-8.

PATHOLOGY

A case of neonatal Bartter's syndrome [see comments] Wong W, et al. **Pediatr Nephrol** 1996 Aug;10(4):414-8. Comment in: Pediatr Nephrol 1996 Aug;10(4):419-31.

PHYSIOPATHOLOGY

Studies on the site of renal tubular defect in Bartter's syndrome. Kikuchi M, et al. **Acta Paediatr Jpn** 1997 Jun; 39(3):358-61

Evidence of myocardial dysfunction in Bartter's syndrome. Calò L, et al. **Am J Nephrol** 1997;17(2):124-7

Mutations in the ROMK gene in antenatal Bartter syndrome are associated with impaired K+ channel function. Derst C, et al. **Biochem Biophys Res Commun** 1997 Jan 23; 230(3):641-5

Long-term follow-up of a girl with the neonatal form of Bartter's syndrome. Nakagawa Y, et al. **Endocr J** 1997 Apr; 44(2):275-81

THERAPY

Renal potassium wasting and hypocalciuria ameliorated with magnesium repletion in Gitelman's syndrome. Cho YJ, et al. **J Korean Med Sci** 1997 Apr;12(2):157-9

URINE

An extreme example of the neonatal form of Bartter's syndrome. Williams MP, et al. **Pediatr Nephrol** 1996 Aug; 10(4):496-7

BARYONS see **ELEMENTARY PARTICLES**

BASAL CELL NEVUS SYNDROME

Gorlin's syndrome: main features and recent advances. Crean SJ, et al. **Br J Hosp Med** 1996 Oct 16-Nov 5;56(8):392-7 (41 ref.)

Complications of the nevoid basal cell carcinoma syndrome: a case report. Walter AW, et al. **J Pediatr Hematol Oncol** 1997 May-Jun;19(3):258-62

COMPLICATIONS

Nevoid basal cell carcinoma syndrome with medulloblastoma in an African-American boy: a rare case illustrating gene-environment interaction. Korczak JF, et al. **Am J Med Genet** 1997 Mar 31;69(3):309-14

Cutaneous keratocyst in nevoid basal cell carcinoma syndrome. Baselga E, et al. **Br J Dermatol** 1996 Nov; 135(5):810-2

Gorlin's syndrome. Case report. Salati C, et al. **Eur J Ophthalmol** 1997 Jan-Mar;7(1):113-4

Neural variant of fetal rhabdomyoma and naevoid basal cell carcinoma syndrome. Hardisson D, et al. **Histopathology** 1996 Sep;29(3):247-52

Otolaryngological manifestation of Gorlin Goltz syndrome. al-Anazy FH, et al. **J Laryngol Otol** 1997 Mar;111(3):286-9 (10 ref.)

Gorlin syndrome associated with midline nasal dermoid cyst. Pivnick EK, et al. **J Med Genet** 1996 Aug;33(8):704-6

DIAGNOSIS

Clinical manifestations in 105 persons with nevoid basal cell carcinoma syndrome. Kimonis VE, et al. **Am J Med Genet** 1997 Mar 31;69(3):299-308 (48 ref.)

Examine your orofacial cleft patients for Gorlin-Goltz syndrome. Lambrecht JT, et al. **Cleft Palate Craniofac J** 1997 Jul;34(4):342-50 (72 ref.)

[Gorlin's syndrome] do Amaral B, et al. **Acta Med Port** 1997 May;10(5):409-15 (56 ref.) (Eng. Abstr.) **(Por)**

ETIOLOGY

Multiple neoplasms following craniospinal irradiation for medulloblastoma in a patient with nevoid basal cell carcinoma syndrome. Case report. O'Malley S, et al. **J Neurosurg** 1997 Feb;86(2):286-8

GENETICS

Fine mapping of the locus for nevoid basal cell carcinoma syndrome on chromosome 9q. Undén AB, et al. **Acta Derm Venereol** 1997 Jan;77(1):4-9

Genetics of the nevoid basal cell carcinoma syndrome. Chidambaram A, et al. **Adv Cancer Res** 1996;70:49-61 (51 ref.)

Most germ-line mutations in the nevoid basal cell carcinoma syndrome lead to a premature termination of the PATCHED protein, and no genotype-phenotype correlations are evident. Wicking C, et al. **Am J Hum Genet** 1997 Jan;60(1):21-6

Basal cell nevus syndrome and dysplastic nevus syndrome: investigation of gene expression by differential hybridization. Rump A, et al. **Arch Dermatol Res** 1996 Jun; 288(7):399-401

The gene for the naevoid basal cell carcinoma syndrome acts as a tumour-suppressor gene in medulloblastoma. Cowan R, et al. **Br J Cancer** 1997;76(2):141-5

The nevoid basal cell carcinoma syndrome: genetics and mechanism of carcinogenesis. Bale AE. **Cancer Invest** 1997; 15(2):180-6 (44 ref.)

Mutations in the human homologue of the Drosophila patched gene in Caucasian and African-American nevoid basal cell carcinoma syndrome patients. Chidambaram A, et al. **Cancer Res** 1996 Oct 15;56(20):4599-601

Mutations in the human homologue of Drosophila patched (PTCH) in basal cell carcinomas and the Gorlin syndrome: different in vivo mechanisms of PTCH inactivation. Unden AB, et al. **Cancer Res** 1996 Oct 15;56(20):4562-5

Mutations in the human homologue of the Drosophila segment polarity gene patched (PTCH) in sporadic basal cell carcinomas of the skin and primitive neuroectodermal tumors of the central nervous system. Wolter M, et al. **Cancer Res** 1997 Jul 1;57(13):2581-5

Mutations of the PATCHED gene in several types of sporadic extracutaneous tumors. Xie J, et al. **Cancer Res** 1997 Jun 15;57(12):2369-72

Pulsed-field gel electrophoresis and FISH mapping of chromosome 9q22: placement of a novel zinc finger gene within the NBCCS and ESS1 region. Levanat S, et al. **Cytogenet Cell Genet** 1997;76(3-4):208-13

cDNA cloning of a novel WD repeat protein mapping to the 9q22.3 chromosomal region. Zaphiropoulos PG, et al. **DNA Cell Biol** 1996 Dec;15(12):1049-56

Patched gene linked to skin cancer [news] **Environ Health Perspect** 1996 Oct;104(10):1026

A high-resolution radiation hybrid map of the region surrounding the Gorlin syndrome gene. Obermayr F, et

BASAL CELL NEVUS SYNDROME

al. **Eur J Hum Genet** 1996;4(4):242–5

Characterization of a YAC contig containing the NBCCS locus and a novel Kruppel-type zinc finger sequence on chromosome segment 9q22.3. Chidambaram A, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):212–8

Physical mapping of the 5 Mb D9S196–D9S180 interval harboring the basal cell nevus syndrome gene and localization of six genes in this region. Xie J, et al. **Genes Chromosomes Cancer** 1997 Apr;18(4):305–9

Developmental genes and cancer: role of patched in basal cell carcinoma of the skin. Gailani MR, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1103–9 (98 ref.)

Rare syndrome yields important piece of gene puzzle [news] Keoun B. **J Natl Cancer Inst** 1996 Nov 6;88(21):1516–8

No evidence of mutation in the human PTC gene, responsible for nevoid basal cell carcinoma syndrome, in human primary squamous cell carcinomas of the esophagus and lung. Suzuki K, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):225–8

Repair of directly and indirectly UV-induced DNA lesions and of DNA double-strand breaks in cells from skin cancer-prone patients with the disorders dysplastic nevus syndrome or basal cell nevus syndrome. Rünger TM, et al. **Recent Results Cancer Res** 1997;143:337–51

Nevoid basal-cell syndrome: literature review and case report in a family. José Tincani A, et al. **Rev Paul Med** 1995 May–Jun;113(3):917–21 (19 ref.)

Basal cell carcinomas in mice overexpressing sonic hedgehog. Oro AE, et al. **Science** 1997 May 2;276(5313):817–21

PATHOLOGY

p53 immunohistochemistry of odontogenic keratocysts in relation to recurrence, basal-cell budding and basal-cell naevus syndrome. Lombardi T, et al. **Arch Oral Biol** 1995 Dec;40(12):1081–4

Basal cell carcinomas in the lung of a patient with naevoid basal cell carcinoma syndrome: metastatic or primary? [letter] Ramón-Faba P, et al. **Br J Dermatol** 1997 Aug; 137(2):313–4

The occurrence of endometrial adenocarcinoma in a patient with basal cell nevus syndrome. Khalifa MA, et al. **J Natl Med Assoc** 1997 Aug;89(8):549–52

BASAL GANGLIA

Bilateral basal ganglia haemorrhage--uncommon manifestation of methanol poisoning. Ganguly G, et al. **J Assoc Physicians India** 1996 Nov;44(11):834–5

Intracranial germinoma with Down's syndrome: a case report and review of the literature. Tanabe M, et al. **Surg Neurol** 1997 Jan;47(1):28–31 (18 ref.)

[Obsessive-compulsive disorder and the basal ganglia] Miguel Filho EC. **Arq Neuropsiquiatr** 1995 Dec;53(4):858–9 (Eng. Abstr.) **(Por)**

ABNORMALITIES

Basal ganglia volumes in children with attention-deficit hyperactivity disorder. Aylward EH, et al. **J Child Neurol** 1996 Mar;11(2):112–5

ANATOMY & HISTOLOGY

The frontal cortex-basal ganglia system in primates. Wise SP, et al. **Crit Rev Neurobiol** 1996;10(3–4):317–56 (443 ref.)

Pigeon basal ganglia: insights into the neuroanatomy underlying telencephalic sensorimotor processes in birds. Veenman CL. **Eur J Morphol** 1997 Oct;35(4):220–33 (138 ref.)

Projections from the claustrum to the prelunate gyrus in the monkey. Baizer JS, et al. **Exp Brain Res** 1997 Mar; 113(3):564–8

Division of the human claustrum according to its architectonics and morphometric parameters. Moryś J, et al. **Folia Morphol (Warsz)** 1996;55(2):69–82

Intrinsic connections of the rat amygdaloid complex: projections originating in the accessory basal nucleus. Savander V, et al. **J Comp Neurol** 1996 Oct 14; 374(2):291–313

The anatomical relationships of the prefrontal cortex with limbic structures and the basal ganglia. Groenewegen HJ, et al. **J Psychopharmacol (Oxf)** 1997;11(2):99–106 (100 ref.)

Control pathways from the basal ganglia to the orofacial motor system in the lower brainstem. Yasui Y, et al. **Kaibogaku Zasshi** 1996 Jun;71(3):177–82 (22 ref.)

Re-evaluation of the functional anatomy of the basal ganglia in normal and Parkinsonian states. Levy R, et al. **Neuroscience** 1997 Jan;76(2):335–43 (68 ref.)

Position of the ventral pallidum in the rat prefrontal cortex-basal ganglia circuit. Maurice N, et al. **Neuroscience** 1997 Sep;80(2):523–34

Lateral nucleus of the rat amygdala is reciprocally connected with basal and accessory basal nuclei: a light and electron microscopic study. Savander V, et al. **Neuroscience** 1997 Apr;77(3):767–81

Interamygdaloid projections of the basal and accessory basal nuclei of the rat amygdaloid complex. Savander V, et al. **Neuroscience** 1997 Feb;76(3):725–35

[Serial anatomy and MRI of the basal ganglia and the thalamus] Francke JP, et al. **Neurochirurgie** 1997;43 Suppl 1:20–32 (0 ref.) **(Fre)**

[Anatomy and physiopathology of the basal ganglia] Parent A, et al. **Neurochirurgie** 1997;43 Suppl 1:33–40 (0 ref.) **(Fre)**

[Functional anatomy of the basal ganglia] Luquin MR, et al. **Rev Neurol** 1997 Aug;25 Suppl 2:S121–8 (66 ref.) (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY

The accessory middle cerebral artery as a collateral blood supply. Komiyama M, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):587–90

Basal ganglia and thalamic infarction in children. Cause and clinical features. Brower MC, et al. **Arch Neurol** 1996 Dec; 53(12):1252–6

Single photon emission computed tomographic blood flow and magnetic resonance volume imaging of basal ganglia in Huntington's disease. Harris GJ, et al. **Arch Neurol** 1996 Apr;53(4):316–24

Regional cerebral blood flow in the covert reading of kana words: a comparison with the study of reading aloud tasks. Sakurai Y, et al. **Eur Neurol** 1996;36(4):237–9

Imaging of shifted stimulated echoes and multiple spin echoes. Mori S, et al. **Magn Reson Med** 1997 Mar; 37(3):336–40

Improvement of parkinsonian signs after vascular lesions of the basal ganglia circuitry. Krauss JK, et al. **Mov Disord** 1997 Jan;12(1):124–6

Tacrine overcompensates for the decreased blood flow induced by basal forebrain lesion in the rat. Peruzzi P, et al. **Neuroreport** 1996 Dec 20;8(1):103–8

Basal ganglia infarction in a child with disulfiram poisoning. Mahajan P, et al. **Pediatrics** 1997 Apr;99(4):605–8

CHEMISTRY

Mesolimbic dopamine D3 receptors and use of antipsychotics in patients with schizophrenia. A postmortem study. Gurevich EV, et al. **Arch Gen Psychiatry** 1997 Mar; 54(3):225–32

Bilateral 6-hydroxydopamine-induced lesion of the nigrostriatal dopamine pathway reproduces the effects of unilateral lesion on substance P but not on enkephalin expression in rat basal ganglia. Salin P, et al. **Eur J Neurosci** 1996 Aug;8(8):1746–57

Expression of glutamate receptors in the human and rat basal ganglia: effect of the dopaminergic denervation on AMPA receptor gene expression in the striatopallidal complex in Parkinson's disease and rat with 6-OHDA lesion. Bernard V, et al. **J Comp Neurol** 1996 May 13;368(4):553–68

Spatial distribution of kainate receptor subunit mRNA in the mouse basal ganglia and ventral mesencephalon. Bischoff S, et al. **J Comp Neurol** 1997 Mar 24;379(4):541–62

CYTOLOGY

Topographical distribution of NADPH-diaphorase-positive neurons in the cat's claustrum. Hinova-Palova DV, et al. **Eur J Morphol** 1997 Apr;35(2):105–16

Total number of neurons in the neostriatal, pallidal, subthalamic, and substantia nigral nuclei of the rat basal ganglia: a stereological study using the cavalieri and optical disector methods. Oorshcot DE. **J Comp Neurol** 1996 Mar 18;366(4):580–99

Organization of projections from the basomedial nucleus of the amygdala: a PHAL study in the rat. Petrovich GD, et al. **J Comp Neurol** 1996 Oct 21;374(3):387–420

Dlx-2 homeobox gene controls neuronal differentiation in primary cultures of developing basal ganglia. Ding M, et al. **J Mol Neurosci** 1997 Apr;8(2):93–113

Facilitation of N-type calcium current is dependent on the frequency of action potential-like depolarizations in dissociated cholinergic basal forebrain neurons of the guinea pig. Williams S, et al. **J Neurosci** 1997 Mar 1; 17(5):1625–32

Parvalbumin and calbindin D-28k in the entopeduncular nucleus, subthalamic nucleus, and substantia nigra of the rat as revealed by double-immunohistochemical methods. Hontanilla B, et al. **Synapse** 1997 Apr;25(4):359–67

[The structure and connections of the basal ganglia. The striatum] Leontovich TA, et al. **Usp Fiziol Nauk** 1997 Jan–Mar;28(1):3–26 (163 ref.) (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Mesolimbic dopamine D3 receptors and use of antipsychotics in patients with schizophrenia. A postmortem study. Gurevich EV, et al. **Arch Gen Psychiatry** 1997 Mar; 54(3):225–32

Dopamine D3 receptors in the basal ganglia of the common marmoset and following MPTP and L-DOPA treatment. Hurley MJ, et al. **Brain Res** 1996 Feb 19;709(2):259–64

The effect of quisqualic acid-induced lesions of the nucleus basalis magnocellularis on latent inhibition. Rochford J, et al. **Brain Res Bull** 1996;41(5):313–7

Modulation of neurotransmission by cannabinoids in the basal ganglia. Glass M, et al. **Eur J Neurosci** 1997 Feb; 9(2):199–203 (75 ref.)

Circling behaviour induced by apomorphine after lesions of the habenula. Wickens AP, et al. **Exp Brain Res** 1996 Apr; 109(1):17–21

Neurotoxicity to the basal ganglia shown by magnetic resonance imaging (MRI) following poisoning by methanol and other substances. Hantson P, et al. **J Toxicol Clin Toxicol** 1997;35(2):151–61

Injection of a GABA antagonist into the mesopontine reticular formation abolishes haloperidol-induced catalepsy in rats. Miwa H, et al. **Neuroreport** 1996 Nov 4; 7(15–17):2475–8

Neuropharmacological evidence for the role of dopamine in ventral pallidum self-stimulation. Panagis G, et al. **Psychopharmacology (Berl)** 1996 Feb;123(3):280–8

EMBRYOLOGY

Ontogenetic development of claustrum in a cow. Krakowska I, et al. **Folia Morphol (Warsz)** 1996;55(4):356–8

Embryonic and larval development of the basal ganglia connections in the brain of Xenopus laevis. Marin O, et al. **Int J Dev Biol** 1996;Suppl 1:161S–162S

ENZYMOLOGY

Selective localisation of P450 enzymes and NADPH-P450 oxidoreductase in rat basal ganglia using anti-peptide antisera. Riedl AG, et al. **Brain Res** 1996 Dec 16; 743(1–2):324–8

Increased expression of nitric oxide synthase in the gracile nucleus of aged rats. Ma SX, et al. **Neuroscience** 1997 Feb; 76(3):659–63

Glutamate decarboxylase-67 messenger RNA expression in normal human basal ganglia and in Parkinson's disease. Nisbet AP, et al. **Neuroscience** 1996 Nov;75(2):389–406

Differential distribution of glutamic acid decarboxylase-65 and glutamic acid decarboxylase-67 messenger RNAs in the entopeduncular nucleus of the rat. Yuan PQ, et al. **Neuroscience** 1997 May;78(1):87–97

GROWTH & DEVELOPMENT

Right-left asymmetry of D1- and D2-receptor density is lost in the basal ganglia of old rats. Giardino L. **Brain Res** 1996 May 13;720(1–2):235–8

Cholera toxin binds to differentiating neurons in the developing murine basal ganglia. Shindler KS, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):199–210

Embryonic and larval development of the basal ganglia connections in the brain of Xenopus laevis. Marin O, et al. **Int J Dev Biol** 1996;Suppl 1:161S–162S

Postnatal development of GABA-immunoreactive terminals in the reticular and ventrobasal nuclei of the rat thalamus: a light and electron microscopic study. De Biasi S, et al. **Neuroscience** 1997 Jan;76(2):503–15

INJURIES

Humoral and cell-mediated immune responses following lesions of the nucleus basalis magnocellularis in the rat. Popović M, et al. **Int J Neurosci** 1997 Feb;89(3–4):165–76

METABOLISM

Reductions in membrane proteins and lipids in basal ganglia of classic Alzheimer disease patients. Gottfries CG, et al. **Alzheimer Dis Assoc Disord** 1996 Summer;10(2):77–81

Lower levels of nucleoside triphosphate in the basal ganglia of depressed subjects: a phosphorous-31 magnetic resonance spectroscopy study. Moore CM, et al. **Am J Psychiatry** 1997 Jan;154(1):116–8

Oxidative damage and metabolic dysfunction in Huntington's disease: selective vulnerability of the basal ganglia. Browne SE, et al. **Ann Neurol** 1997 May;41(5):646–53

Basal ganglia choline levels in depression and response to fluoxetine treatment: an in vivo proton magnetic resonance spectroscopy study. Renshaw PF, et al. **Biol Psychiatry** 1997 Apr 15;41(8):837–43

Right-left asymmetry of D1- and D2-receptor density is lost in the basal ganglia of old rats. Giardino L. **Brain Res** 1996 May 13;720(1–2):235–8

Dopamine D3 receptors in the basal ganglia of the common marmoset and following MPTP and L-DOPA treatment. Hurley MJ, et al. **Brain Res** 1996 Feb 19;709(2):259–64

Effect of morphine on dynorphin B and GABA release in the basal ganglia of rats. You ZB, et al. **Brain Res** 1996 Feb 26;710(1–2):241–8

Distribution of AMPA receptor subunit mRNAs in the human basal ganglia: an in situ hybridization study. Tomiyama M, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1–2):281–9

Basal ganglia: new therapeutic approaches to Parkinson's disease. Graybiel AM. **Curr Biol** 1996 Apr 1;6(4):368–71 (30 ref.)

Subthalamic ablation reverses changes in basal ganglia oxidative metabolism and motor response to apomorphine induced by nigrostriatal lesion in rats. Blandini F, et al. **Eur J Neurosci** 1997 Jul;9(7):1407–13

Lesion study of the distribution of serotonin 5-HT4 receptors in rat basal ganglia and hippocampus. Compan V, et al. **Eur J Neurosci** 1996 Dec;8(12):2591–8

Effects of perinatal asphyxia on the mesostriatal/mesolimbic dopamine system of neonatal and 4-week-old male rats. Ungethüm U, et al. **Exp Brain Res** 1996 Dec;112(3):403–10

Pattern of expression of the serotonin2C receptor messenger RNA in the basal ganglia of adult rats. Eberle-Wang K, et al. **J Comp Neurol** 1997 Jul 28;384(2):233–47

Light and electron microscopic immunohistochemical study of dopaminergic terminals in the striatal portion of the pigeon basal ganglia using antisera against tyrosine hydroxylase and dopamine. Karle EJ, et al. **J Comp Neurol** 1996 May 20;369(1):109–24

Balance of transmitter activities in the basal ganglia loops. Schmidt WJ. **J Neural Transm Suppl** 1995;46:67–76 (46 ref.)

Functional properties of AMPA and NMDA receptors expressed in identified types of basal ganglia neurons. Götz T, et al. **J Neurosci** 1997 Jan 1;17(1):204–15

Age-associated alterations in hippocampal and basal forebrain nuclear factor kappa B activity. Toliver-Kinsky T, et al. **J Neurosci Res** 1997 Jun 15;48(6):580–7

Unchanged basal ganglia N-acetylaspartate and glutamate in idiopathic Parkinson's disease measured by proton magnetic resonance spectroscopy. Clarke CE, et al. **Mov Disord** 1997 May;12(3):297–301

[3H]ketanserin binding in human brain postmortem. Marazziti D, et al. **Neurochem Res** 1997 Jun;22(6):753–7

Reduced glucose metabolism in the frontal cortex and basal ganglia of multiple sclerosis patients with fatigue: a 18F-fluorodeoxyglucose positron emission tomography study. Roelcke U, et al. **Neurology** 1997 Jun;48(6):1566–71

Decreased trkA gene expression within basal forebrain neurons in Alzheimer's disease. Mufson EJ, et al. **Neuroreport** 1996 Dec 20;8(1):25–9

Dopamine and glutamate control each other's release in the basal ganglia: a microdialysis study of the entopeduncular nucleus and substantia nigra. Biggs CS, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):497–504

On the release of glutamate and aspartate in the basal ganglia of the rat: interactions with monoamines and neuropeptides. Herrera-Marschitz M, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):489–95 (73 ref.)

D3 receptor expression within the basal ganglia is not affected by Parkinson's disease. Hurley MJ, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):75–8

Localization of AMPA glutamate receptor subunits in subpopulations of non-pyramidal neurons in the rat basolateral amygdala. McDonald AJ. **Neurosci Lett** 1996 Apr 26;208(3):175–8

Calcium-binding proteins in primate basal ganglia. Parent A, et al. **Neurosci Res** 1996 Aug;25(4):309–34 (156 ref.)

D1 and D2 dopamine receptors in perinatal and adult basal ganglia. Boyson SJ, et al. **Pediatr Res** 1997 Jun;41(6):822–31

Proton magnetic resonance spectroscopy of the basal ganglia in patients with schizophrenia: a preliminary report. Shioiri T, et al. **Schizophr Res** 1996 Oct 18;22(1):19–26

[31P magnetic resonance spectroscopy(MRS) study in basal ganglia of patients with Parkinson's disease] Kudo M, et al. **Nippon Rinsho** 1997 Jan;55(1):255–61 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Hyperintense basal ganglia on T1-Weighted MR in a patient with Langerhans cell histiocytosis [letter; comment] Brunberg JA. **AJNR Am J Neuroradiol** 1996 Jun-Jul; 17(6):1193–4. Comment on: AJNR Am J Neuroradiol 1994 Nov;15(10):1921–8.

Hyperintense basal ganglia on T1-weighted MR in a patient with Langerhans cell histiocytosis [letter; comment] Miaux Y, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1193 . Comment on: AJNR Am J Neuroradiol 1994 Nov;15(10):1921–8.

Basal ganglia volume and proximity to onset in presymptomatic Huntington disease. Aylward EH, et al. **Arch Neurol** 1996 Dec;53(12):1293–6

Hallervorden-Spatz disease. Boyacigil S, et al. **Australas Radiol** 1996 Aug;40(3):351–3

Reduced basal ganglia volumes in trichotillomania measured via morphometric magnetic resonance imaging. O'Sullivan RL, et al. **Biol Psychiatry** 1997 Jul 1;42(1):39–45

Frequency of linear hyperechogenicity over the basal ganglia in young infants with congenital rubella syndrome. Chang YC, et al. **Clin Infect Dis** 1996 Mar;22(3):569–71

Basal ganglionic angioleiomyoma. Ravikumar C, et al. **Clin Neurol Neurosurg** 1996 Aug;98(3):253–7

Parkinsonism in lacunar infarcts of the basal ganglia [letter; comment] Ikeda K, et al. **Eur Neurol** 1996;36(4):248–9. Comment on: Eur Neurol 1995;35(1):46–9.

Magnetic resonance imaging of herpes simplex virus encephalitis: reversible asymmetric basal ganglia lesions. Yoshii F, et al. **Intern Med** 1996 Nov;35(11):909–11

Acute generalized dystonia due to a bilateral lesion of basal ganglia mainly affecting the nuclei pallidi. Benassi G, et al. **Ital J Neurol Sci** 1996 Feb;17(1):71–3

Alzheimer's disease severely affects areas of the claustrum connected with the entorhinal cortex. Morys J, et al. **J Hirnforsch** 1996;37(2):173–80

Late onset familial dystonia: could mitochondrial deficits induce a diffuse lesioning process of the whole basal ganglia system? Caparros-Lefebvre D, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):196–203

Cortical degeneration in progressive supranuclear palsy. A comparison with cortical-basal ganglionic degeneration. Bergeron C, et al. **J Neuropathol Exp Neurol** 1997 Jun; 56(6):726–34

Corticobasal degeneration: neuropsychological and clinical correlates. Mimura M, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter;9(1):94–8

Neurotoxicity to the basal ganglia shown by magnetic resonance imaging (MRI) following poisoning by methanol and other substances. Hantson P, et al. **J Toxicol Clin Toxicol** 1997;35(2):151–61

MR imaging and spectroscopy of the basal ganglia in chronic liver disease: correlation of T1-weighted contrast measurements with abnormalities in proton and phosphorus-31 MR spectra. Taylor-Robinson SD, et al. **Metab Brain Dis** 1996 Sep;11(3):249–68

Reflex myoclonus in cortical-basal ganglionic degeneration involves a transcortical pathway. Strafella A, et al. **Mov Disord** 1997 May;12(3):360–9

Basal ganglia iron content in Parkinson's disease measured with magnetic resonance. Ye FQ, et al. **Mov Disord** 1996 May;11(3):243–9

Direct intracerebral nerve growth factor gene transfer using a recombinant adenovirus: effect on basal forebrain cholinergic neurons during aging. Castel-Barthe MN, et al. **Neurobiol Dis** 1996 Feb;3(1):76–86

Longitudinal change in basal ganglia volume in patients with Huntington's disease. Aylward EH, et al. **Neurology** 1997 Feb;48(2):394–9

Subregional loss of putaminal efferents to the basal ganglia output nuclei may cause parkinsonism in striatonigral degeneration. Goto S, et al. **Neurology** 1996 Oct; 47(4):1032–6

Accuracy of the clinical diagnosis of corticobasal degeneration: a clinicopathologic study. Litvan I, et al. **Neurology** 1997 Jan;48(1):119–25 (73 ref.)

Brain MR imaging in patients with hepatic cirrhosis: relationship between high intensity signal in basal ganglia on T1-weighted images and elemental concentrations in brain. Maeda H, et al. **Neuroradiology** 1997 Aug; 39(8):546–50

Effects of portal-systemic shunt embolization on the basal ganglia: MRI. Matsumoto S, et al. **Neuroradiology** 1997 May;39(5):326–8

Cell loss in the nucleus basalis is related to regional cortical atrophy in Alzheimer's disease. Cullen KM, et al. **Neuroscience** 1997 Jun;78(3):641–52

Re-evaluation of the functional anatomy of the basal ganglia in normal and Parkinsonian states. Levy R, et al. **Neuroscience** 1997 Jan;76(2):335–43 (68 ref.)

Magnetic resonance imaging and spectroscopy of the brain in propionic acidemia: clinical and biochemical considerations. Bergman AJ, et al. **Pediatr Res** 1996 Sep; 40(3):404–9 (30 ref.)

Basal ganglia volume in adults with Down syndrome. Aylward EH, et al. **Psychiatry Res** 1997 May 16; 74(2):73–82

Acute hemichorea in a 14-year-old boy. Allan WC. **Semin Pediatr Neurol** 1996 Sep;3(3):164–9

Neurological features of perinatal asphyxia: a clinical and pathological study of a neonate with multicystic encephalopathy. Butefisch C, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):236–42

[Acute basal ganglia necrosis with favorable course during Mycoplasma encepahlitis] Noseda G, et al. **Arch Pediatr** 1996 Nov;3(11):1107–10 (Eng. Abstr.) **(Fre)**

[Functional MRI in search of basal ganglia] Izawa A, et al. **Nippon Rinsho** 1997 Jul;55(7):1706–11 (Eng. Abstr.) **(Jpn)**

[Cortico-basal degeneration] Morimatsu M. **Nippon Rinsho** 1997 Jan;55(1):139–43 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Neuropathology of the basal ganglia in Parkinson's disease with a special reference to its responsible lesion] Tanaka J, et al. **Nippon Rinsho** 1997 Jan;55(1):32–8 (23 ref.) (Eng. Abstr.) **(Jpn)**

[P300 findings in patients with corticobasal degeneration] Homma A, et al. **No To Shinkei** 1996 Oct;48(10):925–9 (Eng. Abstr.) **(Jpn)**

[Widespread glial cytoskeletal abnormalities in corticobasal degeneration] Wakabayashi K, et al. **No To Shinkei** 1996 Oct;48(10):905–13 (78 ref.) **(Jpn)**

[A case of corticobasal degeneration—the usefulness of surface anatomy scatomy scanning image by MRI] Matsumoto R, et al. **Rinsho Shinkeigaku** 1995 Oct; 35(10):1167–9 (Eng. Abstr.) **(Jpn)**

[Corticobasal degeneration: a combined clinical, PET and pathological study] Sato M, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):293–9 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Modulation of cognitive processes by transsynaptic activation of the basal forebrain. Givens B, et al. **Behav Brain Res** 1997 Mar;84(1–2):1–22 (217 ref.)

Effects of metrifonate on impairment of learning and dysfunction of cholinergic neuronal system in basal forebrain-lesioned rats. Itoh A, et al. **Behav Brain Res** 1997 Feb;83(1–2):165–7

Neuroprotection of acetylcholinergic basal forebrain neurons by memantine and neurokinin B. Wenk GL, et al. **Behav Brain Res** 1997 Feb;83(1–2):129–33

A dynamic model of motor basal ganglia functions. Suri RE, et al. **Biol Cybern** 1997 Jun;76(6):451–8

Basal ganglia: beyond sensorimotor control [letter] Bernhard R. **Biol Psychiatry** 1997 Jun 1;41(11):1148

A post mortem study on neurochemical markers of dopaminergic, GABA-ergic and glutamatergic neurons in basal ganglia-thalamocortical circuits in Parkinson syndrome. Gerlach M, et al. **Brain Res** 1996 Nov 25; 741(1–2):142–52

Effects of estrogen on basal forebrain cholinergic neurons vary as a function of dose and duration of treatment. Gibbs RB. **Brain Res** 1997 May 16;757(1):10–6

Rat's claustrum shows two main cortico-related zones. Sadowski M, et al. **Brain Res** 1997 May 9;756(1–2):147–52

The connections of the primate subthalamic nucleus: indirect pathways and the open-interconnected scheme of basal ganglia-thalamocortical circuitry. Joel D, et al. **Brain Res Brain Res Rev** 1997 Feb;23(1–2):62–78 (115 ref.)

Is the cuneiform nucleus a critical component of the mesencephalic locomotor region? An examination of the effects of excitotoxic lesions of the cuneiform nucleus on spontaneous and nucleus accumbens induced locomotion. Allen LF, et al. **Brain Res Bull** 1996;41(4):201–10

A stereotaxic atlas of the basal ganglia in macaques. François C, et al. **Brain Res Bull** 1996;41(3):151–8

Neuropharmacology of timing and time perception. Meck WH. **Brain Res Cogn Brain Res** 1996 Jun;3(3–4):227–42 (130 ref.)

Subcortical neurofibrillary tangles, neuropil threads, and argentophilic glial inclusions in corticobasal degeneration. Matsumoto S, et al. **Clin Neuropathol** 1996 Jul-Aug; 15(4):209–14

Myoclonus in corticobasal degeneration. Thompson PD. **Clin Neurosci** 1995-96;3(4):203–8 (17 ref.)

The frontal cortex-basal ganglia system in primates. Wise SP, et al. **Crit Rev Neurobiol** 1996;10(3–4):317–56 (443 ref.)

Network models of the basal ganglia. Beiser DG, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):185–90 (38 ref.)

Sensory and cognitive functions of the basal ganglia. Brown LL, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):157–63 (65 ref.)

Toward a neurobiology of temporal cognition: advances and challenges. Gibbon J, et al. **Curr Opin Neurobiol** 1997 Apr; 7(2):170–84 (136 ref.)

Cognitive neuroscience [editorial] Iversen SD, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):151–6 (10 ref.)

Mnemonic functions of the basal ganglia. White NM. **Curr Opin Neurobiol** 1997 Apr;7(2):164–9 (66 ref.)

Functional and pathophysiological models of the basal ganglia. Wichmann T, et al. **Curr Opin Neurobiol** 1996 Dec; 6(6):751–8 (90 ref.)

Pigeon basal ganglia: insights into the neuroanatomy underlying telencephalic sensorimotor processes in birds. Veenman CL. **Eur J Morphol** 1997 Oct;35(4):220–33 (138 ref.)

Differential oscillatory properties of cholinergic and noncholinergic nucleus basalis neurons in guinea pig brain slice. Alonso A, et al. **Eur J Neurosci** 1996 Jan;8(1):169–82

Glutamate-enriched inputs from the mesopontine tegmentum to the entopeduncular nucleus in the rat. Clarke NP, et al. **Eur J Neurosci** 1996 Jul;8(7):1363–76

The sensory guidance of movement: a comparison of the cerebellum and basal ganglia. Jueptner M, et al. **Exp Brain Res** 1996 Dec;112(3):462–74

Neurons of the claustrum projecting to the motor and somatosensory cortex in the rabbit—assessment with the method of retrograde transport of fluorescent tracers. Kowiański P, et al. **Folia Morphol (Warsz)** 1996;55(4):350–2

Basal ganglia organization in amphibians: efferent connections of the striatum and the nucleus accumbens. Marín O, et al. **J Comp Neurol** 1997 Mar 31;380(1):23–50

Basal ganglia organization in amphibians: catecholaminergic innervation of the striatum and the nucleus accumbens. Marín O, et al. **J Comp Neurol** 1997 Feb 3;378(1):50–69

Basal ganglia organization in amphibians: afferent connections to the striatum and the nucleus accumbens. Marín O, et al. **J Comp Neurol** 1997 Feb 3;378(1):16–49

Ventral pallidostriatal pathway in the monkey: evidence for modulation of basal ganglia circuits. Spooren WP, et al. **J Comp Neurol** 1996 Jul 1;370(3):295–312

A phosphorylation cascade in the basal ganglia of the mammalian brain: regulation by the D-1 dopamine receptor. A mathematical model of known biochemical reactions. Kebabian JW. **J Neural Transm Suppl** 1997; 49:145–53 (14 ref.)

Kindling-induced epileptiform potentials in piriform cortex slices originate in the underlying endopiriform nucleus. Hoffman WH, et al. **J Neurophysiol** 1996 Sep;76(3):1430–8

Anatomy of motor learning. II. Subcortical structures and learning by trial and error. Jueptner M, et al. **J Neurophysiol** 1997 Mar;77(3):1325–37

Neuronal activity in the claustrum of the monkey during performance of multiple movements. Shima K, et al. **J Neurophysiol** 1996 Sep;76(3):2115–9

Nucleus preeminentialis of mormyrid fish, a center for recurrent electrosensory feedback. I. Electrosensory and corollary discharge responses. von der Emde G, et al. **J Neurophysiol** 1996 Sep;76(3):1581–96

Differential response properties to amplitude modulated signals in the dorsal nucleus of the lateral lemniscus of the mustache bat and the roles of GABAergic inhibition. Yang L, et al. **J Neurophysiol** 1997 Jan;77(1):324–40

Synaptic integration of functionally diverse pallidal information in the entopeduncular nucleus and subthalamic nucleus in the rat. Bevan MD, et al. **J Neurosci** 1997 Jan 1;17(1):308–24

Frontal-subcortical circuits: the anatomic basis of executive, social and motivated behaviors. Masterman DL, et al. **J Psychopharmacol (Oxf)** 1997;11(2):107–14 (60 ref.)

Basal ganglia and cerebellar output influences non-motor function [news] Middleton FA, et al. **Mol Psychiatry** 1996 Dec;1(6):429–33

Tapping, talking and the thalamus: possible influence of the intralaminar nuclei on basal ganglia function. Mennemeier M, et al. **Neuropsychologia** 1997 Feb;35(2):183–93

Multiple inputs of GABA-immunoreactive neurons in the cuneate nucleus of the rat. Lue JH, et al. **Neurosci Res** 1997 Feb;27(2):123–32

Postnatal development of GABA-immunoreactive terminals in the reticular and ventrobasal nuclei of the rat thalamus:

a light and electron microscopic study. De Biasi S, et al. **Neuroscience** 1997 Jan;76(2):503–15

Morphological and biochemical adaptations to unilateral dopamine denervation of the neostriatum in newborn rats. Penit-Soria J, et al. **Neuroscience** 1997 Apr;77(3):753–66

Role of adenosine in behavioral state modulation: a microdialysis study in the freely moving cat. Portas CM, et al. **Neuroscience** 1997 Jul;79(1):225–35

Lateral nucleus of the rat amygdala is reciprocally connected with basal and accessory basal nuclei: a light and electron microscopic study. Savander V, et al. **Neuroscience** 1997 Apr;77(3):767–81

The subthalamic nucleus and the external pallidum: two tightly interconnected structures that control the output of the basal ganglia in the monkey. Shink E, et al. **Neuroscience** 1996 Jul;73(2):335–57

Choline acetyltransferase activity and vesamicol binding in Rett syndrome and in rats with nucleus basalis lesions. Wenk GL, et al. **Neuroscience** 1996 Jul;73(1):79–84

Aniracetam restores object recognition impaired by age, scopolamine, and nucleus basalis lesions. Bartolini L, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):277–83

The nucleus accumbens: gateway for limbic structures to reach the motor system? Groenewegen HJ, et al. **Prog Brain Res** 1996;107:485–511 (157 ref.)

On the role of the cerebellum and basal ganglia in cognitive signal processing. Houk JC. **Prog Brain Res** 1997; 114:543–52 (50 ref.)

The basal ganglia: focused selection and inhibition of competing motor programs. Mink JW. **Prog Neurobiol** 1996 Nov;50(4):381–425 (250 ref.)

The role of the basal ganglia in movement control. Kaneoke Y, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1518–21 (10 ref.)

Updating the functional model of the basal ganglia [letter; comment] Féger J. **Trends Neurosci** 1997 Apr;20(4):152–3 . Comment on: Trends Neurosci 1996 Oct;19(10):417–22.

[Anatomy and physiopathology of the basal ganglia] Parent A, et al. **Neurochirurgie** 1997;43 Suppl 1:33–40 (0 ref.) **(Fre)**

[Noninvasive study of cortical neuronal mechanism in voluntary movements: role of basal ganglia and cerebellum] Ikeda A, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1522–4 (10 ref.) (Eng. Abstr.) **(Jpn)**

[A case of corticobasal degeneration presenting with primary progressive aphasia] Katai S, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):249–52 (18 ref.) (Eng. Abstr.) **(Jpn)**

[New findings on the morphology and motor function of basal ganglia] Marković L, et al. **Med Pregl** 1996; 49(7–8):273–9 (49 ref.) (Eng. Abstr.) **(Scr)**

[Functional anatomy of the basal ganglia] Luquin MR, et al. **Rev Neurol** 1997 Aug;25 Suppl 2:S121–8 (66 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Functional effects of striatal dysfunction in Parkinson disease. Holthoff-Detto VA, et al. **Arch Neurol** 1997 Feb; 54(2):145–50

A dynamic model of motor basal ganglia functions. Suri RE, et al. **Biol Cybern** 1997 Jun;76(6):451–8

Neuropsychiatric implications of basal ganglia dysfunction [editorial] Lidsky TI. **Biol Psychiatry** 1997 Feb 15; 41(4):383–5

Basal ganglia–internal capsule low density lesions in children with mild head injury. Muthukumar N. **Br J Neurosurg** 1996 Aug;10(4):391–3

Subcortical dementia: a neurobehavioral approach. Darvesh S, et al. **Brain Cogn** 1996 Jul;31(2):230–49 (134 ref.)

Brainstem–mediated locomotion and myoclonic jerks. II Pharmacological effects. Lai YY, et al. **Brain Res** 1997 Jan 16;745(1–2):265–70

Functional and pathophysiological models of the basal ganglia. Wichmann T, et al. **Curr Opin Neurobiol** 1996 Dec; 6(6):751–8 (90 ref.)

Involvement of the claustrum in the convulsive evolution of temporal limbic seizure in feline amygdaloid kindling. Wada JA, et al. **Electroencephalogr Clin Neurophysiol** 1997 Aug;103(2):249–56

Basal ganglia and cerebellar impairment differentially affect the amplitude and time scaling during the performance of forearm step tracking movements. Hefter H, et al. **Electromyogr Clin Neurophysiol** 1996 Mar;36(2):121–8

3rd Sandoz Symposium on the Treatment of Parkinson's Disease. Tokyo, Japan, October 7–8, 1994. Proceedings. **Eur Neurol** 1996;36 Suppl 1:1–62

Historical review of research on functions of basal ganglia. Yanagisawa N. **Eur Neurol** 1996;36 Suppl 1:2–8

Loss of neurons in the claustrum of aging brain. Moryś J, et al. **Folia Neuropathol** 1996;34(2):97–101

Central mechanisms of tremor. Elble RJ. **J Clin Neurophysiol** 1996 Mar;13(2):133–44 (156 ref.)

Corticobasal degeneration: widespread argentophilic threads and glia in addition to neurofibrillary tangles. Similarities of cytoskeletal abnormalities in corticobasal degeneration and progressive supranuclear palsy. Takahashi T, et al. **J Neurol Sci** 1996 Jun;138(1–2):66–77

Myoclonus in corticobasal degeneration. Carella F, et al. **Mov Disord** 1997 Jul;12(4):598–603

Accuracy of the clinical diagnosis of corticobasal degeneration: a clinicopathologic study. Litvan I, et al. **Neurology** 1997 Jan;48(1):119–25 (73 ref.)

The effect of Huntington's disease and Gilles de la Tourette's syndrome on the ability to hold and shift attention. Georgiou N, et al. **Neuropsychologia** 1996 Sep;34(9):843–51

Visual attention in Huntington's disease: the effect of cueing on saccade latencies and manual reaction times. Tsai TT, et al. **Neuropsychologia** 1995 Dec;33(12):1617–26

Effects of left basal ganglia lesions on language production. Fabbro F, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1291–8

Do visual neurophysiological tests reflect magnocellular deficit in dyslexic children? Brecelj J, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R299–300

Basal ganglia and movement disorders: an update [see comments] Chesselet MF, et al. **Trends Neurosci** 1996 Oct; 19(10):417–22 (50 ref.). Comment in: Trends Neurosci 1997 Apr;20(4):152–3.

The magnocellular deficit theory of dyslexia [letter] Skottun BC. **Trends Neurosci** 1997 Sep;20(9):397–8

[Roles of the basal ganglia outputs in movement disorders: a viewpoint based on experiences of stereotactic surgery for idiopathic dystonia] Shima F, et al. **No To Hattatsu** 1997 May;29(3):206–12 (Eng. Abstr.) **(Jpn)**

[Corticobasal degeneration and progressive supranuclear palsy—differentiation by somatosensory-evoked potentials] Miwa H, et al. **No To Shinkei** 1996 Mar;48(3):253–7 (Eng. Abstr.) **(Jpn)**

[Corticobasal degeneration: symptomatological, brain-imaging and electrophysiological studies] Morimatsu M, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1459–62 (10 ref.) (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Basal ganglia and thalamic infarction in children. Cause and clinical features. Brower MC, et al. **Arch Neurol** 1996 Dec; 53(12):1252–6

Transcortical mixed aphasia with left frontoparietal lesions. Maeshima S, et al. **Neuroradiology** 1996 May;38 Suppl 1:S78–9

RADIONUCLIDE IMAGING

Basal ganglia and thalamo-cortical hypermetabolism in patients with spasmodic torticollis. Galardi G, et al. **Acta Neurol Scand** 1996 Sep;94(3):172–6

Single photon emission computed tomographic blood flow and magnetic resonance volume imaging of basal ganglia in Huntington's disease. Harris GJ, et al. **Arch Neurol** 1996 Apr;53(4):316–24

PET study of cerebral glucose metabolism and fluorodopa uptake in patients with corticobasal degeneration. Nagasawa H, et al. **J Neurol Sci** 1996 Aug;139(2):210–7

PET measurement of neuroreceptor occupancy by typical and atypical neuroleptics. Goyer PF, et al. **J Nucl Med** 1996 Jul;37(7):1122–7

SURGERY

Arteriovenous malformations of the basal ganglia region: rationale for surgical management. de Oliveira E, et al. **Acta Neurochir (Wien)** 1997;139(6):487–506

Role of stereotaxis in the treatment of cerebral palsy. De Salles AA. **J Child Neurol** 1996 Nov;11 Suppl 1:S43–50 (38 ref.)

ULTRASONOGRAPHY

Doppler sonographic confirmation of thalamic and basal ganglia vasculopathy in three infants with trisomy 13. Kriss VM, et al. **J Ultrasound Med** 1996 Jul;15(7):523–6

ULTRASTRUCTURE

Electron microscope structure of projecting neurons in the cat's visual claustrum. Kubasik-Juraniec J, et al. **Folia Morphol (Warsz)** 1996;55(4):364–6

BASAL GANGLIA DISEASES

Movement Disorder Society Symposium on Cortical-Basal Ganglionic Degeneration (CBGD) and its Relationship to Other Asymmetrical Cortical Degeneration Syndromes (ACDs). Washington, D.C., October 25–26, 1995. Abstracts. **Mov Disord** 1996 May;11(3):346–57

BLOOD

Biperiden and haloperidol plasma levels and extrapyramidal side effects in schizophrenic patients. Meszaros K, et al. **Neuropsychobiology** 1997;36(2):69–72

CHEMICALLY INDUCED

Extrapyramidal reaction caused by ondansetron [letter] Mathews HG 3d, et al. **Ann Pharmacother** 1996 Feb; 30(2):196

Bilateral ulnar nerve paralysis: an unreported complication of drug-induced extrapyramidal rigidity. Sampath G, et al. **Aust N Z J Psychiatry** 1997 Jun;31(3):427–8

Postmarketing study of the use of flunarizine in vestibular vertigo and in migraine. Verspeelt J, et al. **Eur J Clin Pharmacol** 1996;51(1):15–22

Tricyclic antidepressant-induced extrapyramidal side effects. Vandel P, et al. **Eur Neuropsychopharmacol** 1997 Aug; 7(3):207–12 (32 ref.)

Will the new antipsychotics bring hope of reducing the risk of developing extrapyramidal syndromes and tardive dyskinesia? Casey DE. **Int Clin Psychopharmacol** 1997 Feb; 12 Suppl 1:S19–27 (60 ref.)

D2 occupancy, extrapyramidal side effects and antipsychotic drug treatment: a pilot study with sertindole in healthy subjects. Farde L, et al. **Int Clin Psychopharmacol** 1997 Feb;12 Suppl 1:S3–7

Extrapyramidal syndrome due to valproate administration as an adjunct to lithium in an elderly manic patient [letter] Wils V, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):272

Side effect profiles of new antipsychotic agents. Casey DE. **J Clin Psychiatry** 1996;57 Suppl 11:40–5; discussion 46–52 (30 ref.)

Mandibular dystonia associated with the combination of sertraline and metoclopramide [letter] Christensen RC, et al. **J Clin Psychiatry** 1996 Dec;57(12):596

Severe extrapyramidal reaction due to risperidone in a case of neurofibromatosis [letter] De León OA, et al. **J Clin Psychiatry** 1997 Jul;58(7):323

EPS with fever versus NMS [letter; comment] Simpson GM. **J Clin Psychiatry** 1996 Dec;57(12):595–6. Comment on: J Clin Psychiatry 1995 Nov;56(11):534–5.

Extrapyramidal symptoms and tolerability of olanzapine versus haloperidol in the acute treatment of schizophrenia [published erratum appears in J Clin Psychiatry 1997 Jun;58(6):275] Tran PV, et al. **J Clin Psychiatry** 1997 May; 58(5):205–11

Extrapyramidal symptoms in patients treated with risperidone. Simpson GM, et al. **J Clin Psychopharmacol** 1997 Jun;17(3):194–201

Recurrent mandibular dislocation under neuroleptic drug therapy, treated by bilateral eminectomy. Undt G, et al. **J Craniomaxillofac Surg** 1996 Jun;24(3):184–8

Selective involvement of basal ganglia and occipital cortex in a patient with acute endosulfan poisoning. Pradhan S, et al. **J Neurol Sci** 1997 Apr 15;147(2):209–13

CYP 2D6 PM phenotype hypothesis of antidepressant extrapyramidal side-effects. Vandel P, et al. **Med Hypotheses** 1996 Dec;47(6):439–42 (35 ref.)

Index of Suspicion. Case 1. Dystonic reaction to metoclopramide. Stille CJ. **Pediatr Rev** 1997 Feb;18(2):63, 64

Use of novel antipsychotic drugs. Raleigh F. **Pharmacotherapy** 1996 Nov-Dec;16(6 Pt 2):160S–165S; discussion 166S–168S (20 ref.)

Clozapine versus typical antipsychotics. A retro- and prospective study of extrapyramidal side effects. Peacock L, et al. **Psychopharmacology (Berl)** 1996 Mar; 124(1–2):188–96

[A suppository for vomiting prevention'] Poorter ME, et al. **Ned Tijdschr Geneeskd** 1997 Apr 5;141(14):665–6 (Eng. Abstr.) **(Dut)**

[A case of malignant syndrome triggered by the use of haloperidol and chrorpromazine] Konishi K, et al. **Masui** 1997 Apr;46(4):547–8 (Eng. Abstr.) **(Jpn)**

[Recent research trends in diagnosis, treatment, and prevention of drug-induced extrapyramidal symptoms seen in psychiatric patients] Inada T. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1996 Oct; 16(5):181–5 (30 ref.) (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Revision of the international classification of diseases [letter; comment] Fénelon G, et al. **Mov Disord** 1997 Mar; 12(2):256–7. Comment on: Mov Disord 1995 Sep;10(5):533–40.

COMPLICATIONS

High incidence of pneumonia in elderly patients with basal ganglia infarction. Nakagawa T, et al. **Arch Intern Med** 1997 Feb 10;157(3):321–4

Hemidystonia occurring in a patient with sarcoidosis [letter] Caviness JN, et al. **Mov Disord** 1996 May;11(3):340–1

Severe transitory encephalopathy with reversible lesions of the claustrum. Sperner J, et al. **Pediatr Radiol** 1996 Nov; 26(11):769–71

[Involuntary movements caused by basal ganglia-disorders and their age dependency: introductory remarks] Segawa M. **No To Hattatsu** 1997 May;29(3):190–2 (Eng. Abstr.) **(Jpn)**

[Malignant syndrome in multiple system atrophy] Konagaya M, et al. **No To Shinkei** 1997 Jun;49(6):516–20 (Eng. Abstr.) **(Jpn)**

[Pupillary abnormalities in a patient with clinically diagnosed corticobasal degeneration] Hirabayashi H, et al. **Rinsho Shinkeigaku** 1997 Apr;37(4):344–6 (10 ref.) (Eng. Abstr.) **(Jpn)**

[A case of corticobasal degeneration presenting with primary progressive aphasia] Katai S, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):249–52 (18 ref.) (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Hyperintense basal ganglia on T1-Weighted MR in a patient with Langerhans cell histiocytosis [letter; comment] Brunberg JA. **AJNR Am J Neuroradiol** 1996 Jun-Jul; 17(6):1193–4. Comment on: AJNR Am J Neuroradiol 1994 Nov;15(10):1921–8.

Chorea-ballismus with nonketotic hyperglycemia in primary diabetes mellitus. Lai PH, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1057–64

Hyperintense basal ganglia on T1-weighted MR in a patient with Langerhans cell histiocytosis [letter; comment] Miaux

Y, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1193 . Comment on: AJNR Am J Neuroradiol 1994 Nov;15(10):1921-8.

A decrease in the size of the basal ganglia in children with fetal alcohol syndrome. Mattson SN, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):1088-93

Proton magnetic resonance spectroscopy of basal ganglia in chronic schizophrenia. Fujimoto T, et al. **Biol Psychiatry** 1996 Jul 1;40(1):14-8

Motor and mental aspects of extrapyramidal syndromes. Casey DE. **Int Clin Psychopharmacol** 1995 Sep;10 Suppl 3:105-14 (53 ref.)

EPS with fever versus NMS [letter; comment] Simpson GM. **J Clin Psychiatry** 1996 Dec;57(12):595-6. Comment on: J Clin Psychiatry 1995 Nov;56(11):534-5.

Epidemiological, genetic, pharmacological, kinesiological, nuclear medical (IBZM-SPECT), standard and functional MRI studies on Parkinson's disease and related disorders and economic evaluation of Parkinson's disease therapy--clinical projects in the BMFT-research program Munich: "Parkinson's disease and other basal ganglia disorders". Oertel WH, et al. **J Neural Transm Suppl** 1995; 46:325-37 (40 ref.)

A 66-year-old woman with a rapidly progressing dementia and basal ganglia involvement [clinical conference] Gold M, et al. **J Neuroimaging** 1997 Jul;7(3):171-5

Primary progressive multifocal leukoencephalopathy presenting as an extrapyramidal syndrome. Bhatia KP, et al. **J Neurol** 1996 Jan;243(1):91-5

Brain magnetic resonance imaging in suspected extrapyramidal cerebral palsy: observations in distinguishing genetic-metabolic from acquired causes. Hoon AH Jr, et al. **J Pediatr** 1997 Aug;131(2):240-5

Oculogyric crisis and abnormal magnetic resonance imaging signals in bilateral lentiform nuclei. Kim JS, et al. **Mov Disord** 1996 Nov;11(6):756-8

Paroxysmal choreoathetosis in a patient with idiopathic basal ganglia calcification, chorea, and dystonia. Klein C, et al. **Mov Disord** 1997 Mar;12(2):254-5

Cytomegalovirus disease presenting as a focal brain mass: report of two cases. Huang PP, et al. **Neurosurgery** 1997 May;40(5):1074-8; discussion 1078-9

The Aircardi-Goutières syndrome: variable clinical expression in two siblings. Verrips A, et al. **Pediatr Neurol** 1997 May;16(4):323-5

Germinoma arising in the basal ganglia in early stage: CT and MR findings. Yamana D, et al. **Radiat Med** 1995 Nov-Dec;13(6):305-8 (30 ref.)

[MRI of degenerative extrapyramidal syndromes. Parkinson disease, progressive supranuclear palsy and multiple system atrophy] Elkeslassy A, et al. **J Neuroradiol** 1996 Dec; 23(3):157-63 (14 ref.) (Eng. Abstr.) **(Fre)**

[A solitary toxoplasmosis focus simulating a brain tumor as the first manifestation of AIDS] Röricht S, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):201-3 (12 ref.) **(Ger)**

[Magnetic resonance spectroscopy in Parkinson's disease and multiple system atrophy] Aotsuka A, et al. **Nippon Rinsho** 1997 Jan;55(1):249-54 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Corticobasal degeneration and progressive supranuclear palsy--differentiation by somatosensory-evoked potentials] Miwa H, et al. **No To Shinkei** 1996 Mar;48(3):253-7 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Biperiden and haloperidol plasma levels and extrapyramidal side effects in schizophrenic patients. Meszaros K, et al. **Neuropsychobiology** 1997;36(2):69-72

The potential role of iron chelators in the treatment of Parkinson's disease and related neurological disorders. Gassen M, et al. **Pharmacol Toxicol** 1997 Apr;80(4):159-66 (76 ref.)

5-HT2 antagonism and EPS benefits: is there a causal connection? Kapur S. **Psychopharmacology (Berl)** 1996 Mar; 124(1-2):35-9 (50 ref.)

ENZYMOLOGY

CYP 2D6 PM phenotype hypothesis of antidepressant extrapyramidal side-effects. Vandel P, et al. **Med Hypotheses** 1996 Dec;47(6):439-42 (35 ref.)

ETIOLOGY

Extrapyramidal signs in patients with probable Alzheimer disease. Lopez OL, et al. **Arch Neurol** 1997 Aug; 54(8):969-75

Hypothesis III. Tourette syndrome is only one of several causes of a developmental basal ganglia syndrome. Palumbo D, et al. **Arch Neurol** 1997 Apr;54(4):475-83 (142 ref.)

Increased blood manganese in cirrhotic patients: relationship to pallidal magnetic resonance signal hyperintensity and neurological symptoms. Spahr L, et al. **Hepatology** 1996 Nov;24(5):1116-20

Characterization of basal ganglia dysfunction in Leber 'plus' disease [letter] Hanemann CO, et al. **J Neurol** 1996 Mar; 243(3):297-300

Serotonin reuptake inhibitor-related extrapyramidal side effects in two patients with cerebral palsy [letter] Rone LA, et al. **Psychosomatics** 1996 Mar-Apr;37(2):165-6

GENETICS

The apolipoprotein E epsilon 4 allele is not associated with psychiatric symptoms or extrapyramidal signs in probable Alzheimer's disease. Lopez OL, et al. **Neurology** 1997 Sep; 49(3):794-7

METABOLISM

Oxidative stress in Parkinson's disease and other neurodegenerative disorders. Jenner P. **Pathol Biol (Paris)** 1996 Jan;44(1):57-64 (51 ref.)

PATHOLOGY

Unusual clinical presentations of cortical-basal ganglionic degeneration. Bergeron C, et al. **Ann Neurol** 1996 Dec; 40(6):893-900

Differences between multiple system atrophy and olivopontocerebellar atrophy [letter; comment] Quinn N, et al. **Ann Neurol** 1996 Dec;40(6):945-6. Comment on: Ann Neurol 1996 Mar;39(3):416.

Proton magnetic resonance spectroscopy on childhood-onset dentatorubral-pallidoluysian atrophy (DRPLA). Miyazaki M, et al. **Brain Dev** 1996 Mar-Apr;18(2):142-6

Basal ganglia herniation into the fourth ventricle. Altumbabic M, et al. **Can J Neurol Sci** 1997 Feb;24(1):62-3

Frequency of linear hyperechogenicity over the basal ganglia in young infants with congenital rubella syndrome. Chang YC, et al. **Clin Infect Dis** 1996 Mar;22(3):569-71

Extrapontine myelinolysis of the basal ganglia without central pontine myelinolysis. Hadfield MG, et al. **Clin Neuropathol** 1996 Mar-Apr;15(2):96-100

Cytoskeletal pathology in non-Alzheimer degenerative dementia: new lesions in diffuse Lewy body disease, Pick's disease, and corticobasal degeneration. Dickson DW, et al. **J Neural Transm Suppl** 1996;47:31-46

Neurodegenerative disorders with extrapyramidal features--a neuropathological overview. Jellinger KA. **J Neural Transm Suppl** 1995;46:33-57 (144 ref.)

Magnetic resonance imaging of corticobasal degeneration. Hauser RA, et al. **J Neuroimaging** 1996 Oct;6(4):222-6

[Anatomy and physiopathology of the basal ganglia] Parent A, et al. **Neurochirurgie** 1997;43 Suppl 1:33-40 (0 ref.) **(Fre)**

[A case report of germinoma with syncytiotrophoblastic giant cells (STGC) in the basal ganglia] Ueda A, et al. **No Shinkei Geka** 1996 Mar;24(3):267-71 (13 ref.) (Eng. Abstr.) **(Jpn)**

[An autopsy case of corticobasal degeneration mimicking frontal Pick's disease] Miyazaki H, et al. **No To Shinkei** 1997 Mar;49(3):277-82 (Eng. Abstr.) **(Jpn)**

[Widespread glial cytoskeletal abnormalities in corticobasal degeneration] Wakabayashi K, et al. **No To Shinkei** 1996 Oct;48(10):905-13 (78 ref.) **(Jpn)**

[Corticobasal degeneration: a combined clinical, PET and pathological study] Sato M, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):293-9 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

A laser microprobe mass analysis of trace elements in brain mineralizations and capillaries in Fahr's disease. Bouras C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):351-7

Selective bilateral lesion of the globus pallidus: ten-year follow-up of memory impairment and frontal symptomatology. Piccirilli M, et al. **Ital J Neurol Sci** 1995 Dec;16(9):635-40

Levodopa and swallowing reflex [letter] Kobayashi H, et al. **Lancet** 1996 Nov 9;348(9037):1320-1

The relationship between extrapyramidal signs and cognitive performance in patients with Alzheimer's disease enrolled in the CERAD Study. Consortium to Establish a Registry for Alzheimer's Disease. Clark CM, et al. **Neurology** 1997 Jul;49(1):70-5

Extrapyramidal symptoms during long-term treatment with antipsychotics: special focus on clozapine and D1 and D2 dopamine antagonists. Gerlach J, et al. **Neuropsychopharmacology** 1996 Mar;14(3 Suppl):35S-39S (24 ref.)

Effects of left basal ganglia lesions on language production. Fabbro F, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1291-8

Obsessive-compulsive disorder and rheumatic chorea: is there a connection? Abbas S, et al. **Psychopathology** 1996; 29(3):193-7

Symptom change and extrapyramidal side effects during acute haloperidol treatment in chronic geriatric schizophrenics. Weisbard JJ, et al. **Psychopharmacol Bull** 1997;33(1):119-22

[Anatomy and physiopathology of the basal ganglia] Parent A, et al. **Neurochirurgie** 1997;43 Suppl 1:33-40 (0 ref.) **(Fre)**

[P300 findings in patients with corticobasal degeneration] Homma A, et al. **No To Shinkei** 1996 Oct;48(10):925-9 (Eng. Abstr.) **(Jpn)**

[Corticobasal degeneration: symptomatological, brain-imaging and electrophysiological studies] Morimatsu M, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1459-62 (10 ref.) (Eng. Abstr.) **(Jpn)**

["Forced mouth opening reaction" associated with corticobasal degeneration] Ohkawa S, et al. **Rinsho Shinkeigaku** 1997 Apr;37(4):275-82 (Eng. Abstr.) **(Jpn)**

[Hemichorea-hemiballism associated to basal ganglia hemorrhage in uncontrolled diabetes mellitus: report of two cases] Cava PA, et al. **Arq Neuropsiquiatr** 1996 Sep; 54(3):461-5 (14 ref.) (Eng. Abstr.) **(Por)**

PSYCHOLOGY

Selective bilateral lesion of the globus pallidus: ten-year follow-up of memory impairment and frontal symptomatology. Piccirilli M, et al. **Ital J Neurol Sci** 1995 Dec;16(9):635-40

Extrapyramidal signs and clinical symptoms in first-episode schizophrenia: response to low-dose risperidone. Kopala LC, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):308-13

Delayed response tasks in basal ganglia lesions in man: further evidence for a striato-frontal cooperation in behavioural adaptation. Partiot A, et al. **Neuropsychologia** 1996 Jul; 34(7):709-21

RADIOGRAPHY

Basal ganglia calcification after mumps encephalitis. Abrey LE, et al. **Mov Disord** 1996 Nov;11(6):755-6

RADIONUCLIDE IMAGING

Decreased striatal monoaminergic terminals in olivopontocerebellar atrophy and multiple system atrophy demonstrated with positron emission tomography. Gilman S, et al. **Ann Neurol** 1996 Dec;40(6):885-92

Hemichorea after a striatal ischemic lesion: evidence of thalamic disinhibition using single-photon emission computed tomography: a case report. Pantano P, et al. **Mov Disord** 1996 Jul;11(4):444-7

REHABILITATION

Patients with stroke confined to basal ganglia have diminished response to rehabilitation efforts. Miyai I, et al. **Neurology** 1997 Jan;48(1):95-101

SURGERY

A new method to localize brain nuclei for surgery in extrapyramidal disease. Yuan S, et al. **Stereotact Funct Neurosurg** 1995;65(1-4):47-53

VIROLOGY

Basal ganglia infarction associated with HHV-6 infection. Webb DW, et al. **Arch Dis Child** 1997 Apr;76(4):362-4

BASAL LAMINA see **BASEMENT MEMBRANE**

BASAL METABOLISM

see related

CALORIMETRY

Relationship between anthropometric indices of body fat distribution and basal energy metabolism in healthy Maltese women. Pullicino E, et al. **Acta Diabetol** 1996 Sep; 33(3):198-204

Comparison of measured sleeping metabolic rate and predicted basal metabolic rate in the first year of life. Wells JC, et al. **Acta Paediatr** 1996 Sep;85(9):1013-8

Resting metabolic rate in obese, premenopausal black women. Albu J, et al. **Am J Clin Nutr** 1997 Sep;66(3):531-8

Reduced rates of metabolism and decreased physical activity in breast cancer patients receiving adjuvant chemotherapy. Demark-Wahnefried W, et al. **Am J Clin Nutr** 1997 May; 65(5):1495-501

Reproducibility of measurement of resting energy expenditure in prepubertal girls. Figueroa-Colon R, et al. **Am J Clin Nutr** 1996 Oct;64(4):533-6

Effects of strength or aerobic training on body composition, resting metabolic rate, and peak oxygen consumption in obese dieting subjects. Geliebter A, et al. **Am J Clin Nutr** 1997 Sep;66(3):557-63

Is there an energy deficiency in homozygous sickle cell disease? [see comments] Singhal A, et al. **Am J Clin Nutr** 1997 Aug;66(2):386-90. Comment in: Am J Clin Nutr 1997 Aug;66(2):423-4.

Energy expenditure of children and adolescents with severe disabilities: a cerebral palsy model. Stallings VA, et al. **Am J Clin Nutr** 1996 Oct;64(4):627-34

Body composition, resting metabolic rate, and energy requirements of short- and normal-stature, low-income Guatemalan children. Wren RE, et al. **Am J Clin Nutr** 1997 Aug;66(2):406-12

Total free living energy expenditure in patients with severe chronic obstructive pulmonary disease. Baarends EM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):549-54

Resting energy expenditure in dogs with nonhematopoietic malignancies before and after excision of tumors. Ogilvie GK, et al. **Am J Vet Res** 1996 Oct;57(10):1463-7

Energy metabolism during male human puberty. II. Use of testicular size in predictive equations for basal metabolic rate. Brown DC, et al. **Ann Hum Biol** 1996 Jul-Aug; 23(4):281-4

High resting energy expenditure in normal-weight bulimics and its normalization with control of eating behaviour. Léonard T, et al. **Appetite** 1996 Dec;27(3):223-33

Theoretical considerations concerning the effect of relativistic velocities on the rate of biological processes. Heneine IF. **Aviat Space Environ Med** 1997 Jun;

68(6):538–41
Normal levels of energy expenditure in patients with reported "low metabolism'. Skov AR, et al. **Clin Physiol** 1997 May; 17(3):279–85
An edgewise look at basal epithelial cells: three-dimensional views of the rat prostate, mammary gland and salivary gland. Hayward SW, et al. **Differentiation** 1996 Jul; 60(4):219–27
Murine endodermal F9E cells, derived from the teratocarcinoma line F9, contain high basal levels of retinoic acid receptors (RARs and RXRs) but are not sensitive to the actions of retinoic acid. Wan YJ, et al. **Differentiation** 1996 Jul;60(4):211–8
The effect of splenectomy for hypersplenism on whole body protein turnover, resting metabolic rate and growth in sickle cell disease. Badaloo AV, et al. **Eur J Clin Nutr** 1996 Oct;50(10):672–5
The validity of predicting the basal metabolic rate of young Australian men and women. Piers LS, et al. **Eur J Clin Nutr** 1997 May;51(5):333–7
Unidentified antioxidant defences of human plasma in immobilized patients: a possible relation to basic metabolic rate. Aejmelaeus R, et al. **Free Radic Res** 1997 Apr; 26(4):335–41
Measurement of total energy expenditure by the doubly labelled water technique in free living Indians in Bangalore city. Kurpad AV, et al. **Indian J Med Res** 1997 May; 105:212–9
Short-term changes in body composition and metabolism with severe dieting and resistance exercise. Gornall J, et al. **Int J Sport Nutr** 1996 Sep;6(3):285–94
Chronic dieting does not result in a sustained reduction in resting metabolic rate in overweight women. McCargar LJ, et al. **J Am Diet Assoc** 1996 Nov;96(11):1175–7
No evidence for a higher resting metabolic rate in noninstitutionalized Alzheimer's disease patients. Donaldson KE, et al. **J Am Geriatr Soc** 1996 Oct; 44(10):1232–4
Validity of the Physical Activity Scale for the Elderly (PASE): according to energy expenditure assessed by the doubly labeled water method. Schuit AJ, et al. **J Clin Epidemiol** 1997 May;50(5):541–6
Is reduced metabolic rate associated with obesity? [editorial; comment] Dietz WH. **J Pediatr** 1996 Nov;129(5):621–3. Comment on: J Pediatr 1996 Nov;129(5):637–42. Comment on: J Pediatr 1996 Nov;129(5):621–3.
Differences in resting energy expenditure in prepubertal black children and white children [see comments] Kaplan AS, et al. **J Pediatr** 1996 Nov;129(5):643–7. Comment in: J Pediatr 1996 Nov;129(5):621–3.
The influence of physical activity on BMR. Sjödin AM, et al. **Med Sci Sports Exerc** 1996 Jan;28(1):85–91
Relationship between resting metabolic rate and the composition of the fat-free mass. Sparti A, et al. **Metabolism** 1997 Oct;46(10):1225–30
Energy expenditure in human immunodeficiency virus infection [letter] Mulligan K, et al. **N Engl J Med** 1997 Jan 2;336(1):70–1
Brain cell microenvironment effects on neuron excitability and basal metabolism. Aiello GL, et al. **Neuroreport** 1997 Mar 24;8(5):1165–8
Resting metabolic rate in African-American and Caucasian girls. Yanovski SZ, et al. **Obes Res** 1997 Jul;5(4):321–5
Basal metabolic rate in relation to body composition and daily energy expenditure in the field vole, Microtus agrestis. Meerlo P, et al. **Physiol Zool** 1997 May–Jun;70(3):362–9
Standard and maximal metabolic rates of goannas (Squamata:Varanidae). Thompson GG, et al. **Physiol Zool** 1997 May–Jun;70(3):307–23

DRUG EFFECTS

Differences in macronutrient selections in users and nonusers of an oral contraceptive. Eck LH, et al. **Am J Clin Nutr** 1997 Feb;65(2):419–24
The effect of oral contraceptive agents on the basal metabolic rate of young women. Diffey B, et al. **Br J Nutr** 1997 Jun; 77(6):853–62
Skeletal muscle resting metabolism in cold-acclimated rats: effect of age, noradrenaline and hyperosmolarity. Cox JP, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):403–7
Basal metabolism of intraperitoneally injected carrier-free 74As-labeled arsenate in rabbits. Kimpe JD, et al. **Fundam Appl Toxicol** 1996 Dec;34(2):240–8
Effect of CO2 on the metabolic and ventilatory responses to ambient temperature in conscious adult and newborn rats. Saiki C, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):261–9
Persistent increases in basal cerebral metabolic activity induced by morphine sensitization. Kraus MA, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):89–100

GENETICS

Polymorphism of the beta3-adrenergic receptor gene affects basal metabolic rate in obese Finns. Sipiläinen R, et al. **Diabetes** 1997 Jan;46(1):77–80
Insulin exposure and aging theory. Parr T. **Gerontology** 1997; 43(3):182–200 (165 ref.)
A major gene for resting metabolic rate unassociated with body composition: results from the Québec Family Study. Rice T, et al. **Obes Res** 1996 Sep;4(5):441–9

PHYSIOLOGY

Rate of metabolism in the smallest simian primate, the pygmy marmoset (Cebuella pygmaea). Genoud M, et al. **Am J Primatol** 1997;41(3):229–45
Skeletal muscle resting metabolism in cold-acclimated rats: effect of age, noradrenaline and hyperosmolarity. Cox JP, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):403–7
An updated basal body temperature method. Frank E, et al. **Contraception** 1996 Nov;54(5):319–21
Effects of metabolic rate and ambient vapour pressure on heat strain in protective clothing. McLellan TM, et al. **Eur J Appl Physiol** 1996;74(6):518–27
A longitudinal study of changes in body composition and basal metabolism in physically active elderly men. Murray LA, et al. **Eur J Appl Physiol** 1996;72(3):215–8
Gender differences in resting metabolic rate and noradrenaline kinetics in older individuals. Poehlman ET, et al. **Eur J Clin Invest** 1997 Jan;27(1):23–8
The effect of obesity, age, puberty and gender on resting metabolic rate in children and adolescents. Molnár D, et al. **Eur J Pediatr** 1997 May;156(5):376–81
A technique for identifying the total space or temperature dependent thermal parameters (TITP) of biological materials in vivo. Liu J, et al. **IEEE Trans Biomed Eng** 1996 Aug;43(8):847–50
Does moderate aerobic activity have a stimulatory effect on 24 h resting energy expenditure: a direct calorimeter study. Pacy PJ, et al. **Int J Food Sci Nutr** 1996 Jul;47(4):299–305
Resting metabolic rate is influenced by anxiety in college men. Schmidt WD, et al. **J Appl Physiol** 1996 Feb; 80(2):638–42
Are basal metabolic rate prediction equations appropriate for female children and adolescents? Wong WW, et al. **J Appl Physiol** 1996 Dec;81(6):2407–14
Seasonal variation in the resting metabolic rate of male wood mice Apodemus sylvaticus from two contrasting habitats 15 km apart. Corp N, et al. **J Comp Physiol [B]** 1997 Apr; 167(3):229–39
Basal metabolic temperature vs. laboratory assessment in "posttraumatic hypothyroidism" [see comments] Sehnert KW, et al. **J Manipulative Physiol Ther** 1996 Jan;19(1):6–12 . Comment in: J Manipulative Physiol Ther 1996 Jul–Aug;19(6):425–7.
Thermoregulatory and metabolic phenotypes of mice lacking noradrenaline and adrenaline [see comments] Thomas SA, et al. **Nature** 1997 May 1;387(6628):94–7. Comment in: Nature 1997 May 1;387(6628):27–8.
Resting energy expenditure and energy substrate utilization in children with Duchenne muscular dystrophy. Hankard R, et al. **Pediatr Res** 1996 Jul;40(1):29–33
[Patterns of metabolic reorganization in man in the Far North] Boĭko ER. **Fiziol Cheloveka** 1996 Jul–Aug; 22(4):122–9 **(Rus)**

BASAL NUCLEI see **BASAL GANGLIA**

BASAL NUCLEUS OF MEYNERT see **SUBSTANTIA INNOMINATA**

BASAL NUCLEUS, OLIVARY see **OLIVARY NUCLEUS**

BASAL VEIN see **CEREBRAL VEINS**

BASE COMPOSITION

A 964 bp repetitive DNA in Entamoeba histolytica is associated with linear "chromosomal" DNAs of variable sizes. Huang M, et al. **Arch Med Res** 1997;28 Spec No:1–4
Pattern recognition approach to nucleic acid sequences. Seetharaman J, et al. **Biochem Mol Biol Int** 1996 Dec; 40(6):1105–10
Thermodynamics and NMR of internal G.T mismatches in DNA. Allawi HT, et al. **Biochemistry** 1997 Aug 26; 36(34):10581–94
G.A and U.U mismatches can stabilize RNA internal loops of three nucleotides. Schroeder S, et al. **Biochemistry** 1996 Dec 17;35(50):16105–9
Structural analysis of Z-Z DNA junctions with A:A and T:T mismatched base pairs by NMR. Yang XL, et al. **Biochemistry** 1997 Apr 8;36(14):4258–67
Studies of DNA dumbbells. VI. Analysis of optical melting curves of dumbbells with a sixteen-base pair duplex stem and end-loops of variable size and sequence. Paner TM, et al. **Biopolymers** 1996 Dec;39(6):779–93
Novel Hoogsteen-like bases for configurational recognition of the T-A base pair by DNA triplex formation. Rothman JH, et al. **Biopolymers** 1996 Dec;39(6):795–812
The "clustered structure" of the purines/pyrimidines distribution in DNA distinguishes systematically between coding and non-coding sequences. Almirantis Y, et al. **Bull Math Biol** 1997 Sep;59(5):975–92
Uniform amplification of a mixture of deoxyribonucleic acids with varying GC content. Baskaran N, et al. **Genome Res** 1996 Jul;6(7):633–8
Mitochondrial COI sequences in mites: evidence for variations in base composition. Navajas M, et al. **Insect Mol Biol** 1996 Nov;5(4):281–5
The study of the stability of Watson-Crick nucleic acid base pairs in water and dimethyl sulfoxide: computer simulation by the Monte Carlo method. Danilov VI, et al. **J Biomol Struct Dyn** 1997 Aug;15(1):69–80
G and T nucleotide contents show specie-invariant negative correlation for all three codon positions. Frank GK, et al. **J Biomol Struct Dyn** 1997 Apr;14(5):629–39
A 4-base pair deletion mutation of Gs alpha gene in a Japanese patient with pseudohypoparathyroidism. Yokoyama M, et al. **J Endocrinol Invest** 1996 Apr; 19(4):236–41
Hexamer palindromic oligonucleotides with 5'-CG-3' motif(s) induce production of interferon. Sonehara K, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):799–803
The detailed structure of tandem G.A mismatched base-pair motifs in RNA duplexes is context dependent. Heus HA, et al. **J Mol Biol** 1997 Aug 8;271(1):147–58
Unique base-pair breathing dynamics in PNA-DNA hybrids. Leijon M, et al. **J Mol Biol** 1997 Aug 22;271(3):438–55
The major compositional transitions in the vertebrate genome. Bernardi G, et al. **J Mol Evol** 1997;44 Suppl 1:S44–51
Retroviral oligonucleotide distributions correlate with biased nucleotide compositions of retrovirus sequences, suggesting a duplicative stepwise molecular evolution. Laprevotte I, et al. **J Mol Evol** 1997 Feb;44(2):214–25
A relationship between GC content and coding-sequence length. Oliver JL, et al. **J Mol Evol** 1996 Sep;43(3):216–23
Analysis of a theoretical model based on similarity for studying RNA base pairings. Di Gennaro P, et al. **J Theor Biol** 1996 Aug 21;181(4):359–71
A theoretical study on the nucleotide changes under a definite functional constraint of forming stable base-pairs in the stem regions of ribosomal RNAs; its application to the phylogeny of eukaryotes. Otsuka J, et al. **J Theor Biol** 1997 Jan 21;184(2):171–86
GC-rich template amplification by inverse PCR. DNA polymerase and solvent effects. Moreau A, et al. **Methods Mol Biol** 1997;67:47–53
Comparison of the base pairing properties of a series of nitroazole nucleobase analogs in the oligodeoxyribonucleotide sequence 5'-d(CGCXAATTYGCG)-3'. Bergstrom DE, et al. **Nucleic Acids Res** 1997 May 15;25(10):1935–42
Watson-Crick base-pairing properties of bicyclo-DNA. Bolli M, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4660–7
Strong, specific, monodentate G-C base pair recognition by N7-inosine derivatives in the pyrimidine.purine-pyrimidine triple-helical binding motif. Marfurt J, et al. **Nucleic Acids Res** 1997 May 15;25(10):1875–82
Effects of base mismatches on joining of short oligodeoxynucleotides by DNA ligases. Pritchard CE, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3403–7
Structural features of the DNA hairpin d(ATCCTA-GTTA-TAGGAT): formation of a G-A base pair in the loop. van Dongen MJ, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1537–47
A curved RNA helix incorporating an internal loop with G.A and A.A non-Watson-Crick base pairing. Baeyens KJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12851–5
Mismatch base pairs in RNA. Limmer S. **Prog Nucleic Acid Res Mol Biol** 1997;57:1–39 (129 ref.)
The structure of an RNA dodecamer shows how tandem U-U base pairs increase the range of stable RNA structures and the diversity of recognition sites. Lietzke SE, et al. **Structure** 1996 Aug 15;4(8):917–30
Base composition and gene distribution: critical patterns in mammalian genome organization. Gardiner K. **Trends Genet** 1996 Dec;12(12):519–24 (43 ref.)

GENETICS

Thermodynamics of coaxially stacked helixes with GA and CC mismatches. Kim J, et al. **Biochemistry** 1996 Oct 29; 35(43):13753–61
Principal component analysis and large-scale correlations in non-coding sequences of human DNA. Teitelman M, et al. **J Comput Biol** 1996 Winter;3(4):573–6

PHYSIOLOGY

Thermodynamics of base pairing. Turner DH. **Curr Opin Struct Biol** 1996 Jun;6(3):299–304 (51 ref.)

BASE PAIRS see **BASE COMPOSITION**

BASE RATIO see **BASE COMPOSITION**

BASE SEQUENCE

Molecular analysis of deletion (17)(p11.2p11.2) in a family segregating a 17p paracentric inversion: implications for carriers of paracentric inversions. Yang SP, et al. **Am J Hum Genet** 1997 May;60(5):1184–93
Contamination of sequence databases with adaptor sequences [letter] Yoshikawa T, et al. **Am J Hum Genet** 1997 Feb; 60(2):463–6
Mining genomes with MS. Yates JR 3rd, et al. **Anal Chem** 1996 Sep 1;68(17):534A–540A (35 ref.)
Bias in nucleotide composition of antisense oligonucleotides. Smetsers TF, et al. **Antisense Nucleic Acid Drug Dev** 1996 Spring;6(1):63–7
Sequences of human herpesvirus 8 are not detected in various non-Kaposi sarcoma vascular lesions [letter] Lebbé C, et al. **Arch Dermatol** 1997 Jul;133(7):919–20
Partial cDNA sequencing of mouse dentine sialoprotein and detection of its specific expression by odontoblasts. Ritchie

HH, et al. **Arch Oral Biol** 1996 Jun;41(6):571–5
Compilation of ribosomal 5S ribonucleic acid nucleotide sequences: eukaryotic 5S rRNAs. Szymański M, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):75–9
WWW-query: an on-line retrieval system for biological sequence banks. Perrière G, et al. **Biochimie** 1996; 78(5):364–9
Influence of sequence on the conformation of the B-DNA helix. Subirana JA, et al. **Biophys J** 1997 Jul;73(1):333–8
Molecular analysis of the Turkish form of deletion–inversion (delta beta)(0) thalassaemia. Oner C, et al. **Br J Haematol** 1997 Feb;96(2):229–34
Beta-thalassaemia due to a seventeen basepair deletion [letter; comment] Waye JS, et al. **Br J Haematol** 1997 May; 97(2):504. Comment on: Br J Haematol 1996 Sep;94(3):476–82.
The "clustered structure" of the purines/pyrimidines distribution in DNA distinguishes systematically between coding and non-coding sequences. Almirantis Y, et al. **Bull Math Biol** 1997 Sep;59(5):975–92
Applicability of the multiple alignment algorithm for detection of weak patterns: periodically distributed DNA pattern as a study case. Bolshoy A, et al. **Comput Appl Biosci** 1996 Oct;12(5):383–9
Factors affecting the priming efficiency of short contiguous oligonucleotide strings in the primer walking strategy of DNA sequencing. Azhikina T, et al. **DNA Seq** 1996; 6(4):211–6
An improved method for the synthesis of mercurated dUTP. Enzymic synthesis of Hg-labelled DNA of high molecular weight suitable for use in an image based DNA sequencing strategy. Bridgman AJ, et al. **DNA Seq** 1996;6(4):199–209
Sequencing 5-methylcytosine residues by the bisulphite method. Grigg GW. **DNA Seq** 1996;6(4):189–98 (21 ref.)
Nucleotide sequence of exons 5 to 9 of the p53 tumour-suppressor gene of the donkey (Equus asinus). Nasir L, et al. **DNA Seq** 1995;6(1):61–3
Sequence and temperature effect on hydrogen bond disruption in DNA determined by a statistical analysis. Chen YZ, et al. **Eur Biophys J** 1996;25(1):9–18
Toward the development of a gene index to the human genome: an assessment of the nature of high-throughput EST sequence data. Aaronson JS, et al. **Genome Res** 1996 Sep;6(9):829–45
Computational methods for the identification of genes in vertebrate genomic sequences. Claverie JM. **Hum Mol Genet** 1997;6(10):1735–44 (100 ref.)
A relationship between GC content and coding-sequence length. Oliver JL, et al. **J Mol Evol** 1996 Sep;43(3):216–23
Study on the isentropic equations of nucleotide sequences and their application. Wang JH, et al. **J Theor Biol** 1996 Aug 7;181(3):197–202
Deletion of twenty seven nucleotides within exon 11 of the band 3 gene identified in ovalocytosis in Lombok Island, Indonesia. Alimsardjono H, et al. **Jpn J Hum Genet** 1997 Mar;42(1):233–6
Reading of DNA sequence logos: prediction of major groove binding by information theory. Schneider TD. **Methods Enzymol** 1996;274:445–55
Faster, cheaper sequencing using anchored PCR [news] Stewart A. **Mol Med Today** 1997 May;3(5):188
Litigation escalates for patents on a chip [news] Bains W. **Nat Biotechnol** 1997 May;15(5):406
Genomics companies welcome US PTO initiative on DNA patents [news] Marshall A. **Nat Biotechnol** 1997 Feb; 15(2):121–2
GenBank. Benson DA, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):1–6
FlyBase: a Drosophila database. The FlyBase consortium. Gelbart WM, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):63–6
Avoidance of palindromic words in bacterial and archaeal genomes: a close connection with restriction enzymes. Gelfand MS, et al. **Nucleic Acids Res** 1997 Jun 15; 25(12):2430–9
The Genome Sequence DataBase version 1.0 (GSDB): from low pass sequences to complete genomes. Harger C, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):18–23
Direct DNA sequence determination from total genomic DNA. Kilger C, et al. **Nucleic Acids Res** 1997 May 15; 25(10):2032–4
Compilation of DNA sequences of Escherichia coli K12: description of the interactive databases ECD and ECDC (update 1996). Kröger M, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):39–42
Codon usage tabulated from the international DNA sequence databases. Nakamura Y, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):244–5
The NRSub database: update 1997. Perrière G, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):53–6
The EMBL Nucleotide Sequence Database. Stoesser G, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):7–14
DNA Data Bank of Japan in the age of information biology. Tateno Y, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):14–7
A comparison of expressed sequence tags (ESTs) to human genomic sequences. Wolfsberg TG, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1626–32
A DNA cycle sequencing reaction that minimizes compressions on automated fluorescent sequencers. Yamakawa H, et al. **Nucleic Acids Res** 1997 Mar 15; 25(6):1311–2
Multiple-complete-digest restriction fragment mapping: generating sequence-ready maps for large-scale DNA sequencing. Wong GK, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5225–30
Should non-peer-reviewed raw DNA sequence data release be forced on the scientific community? Adams MD, et al. **Science** 1996 Oct 25;274(5287):534–6
Genomic sequence information should be released immediately and freely in the public domain. Bentley DR. **Science** 1996 Oct 25;274(5287):533–4
Dealing with database explosion: a cautionary note [letter; comment] Bhatia U, et al. **Science** 1997 Jun 13; 276(5319):1724–5. Comment on: Science 1996 Aug 23;273(5278):1058–73.
Sequence patents [letter; comment] Cullen SE. **Science** 1997 Mar 28;275(5308):1861–2. Comment on: Science 1997 Feb 7;275(5301):777–80.
Is data-hoarding slowing the assault on pathogens? [news] [see comments] Marshall E. **Science** 1997 Feb 7; 275(5301):777–80. Comment in: Science 1997 Mar 28;275(5308):1861–2.
The variance of pairwise nucleotide differences in two populations with migration. Wakeley J. **Theor Popul Biol** 1996 Feb;49(1):39–57
Nucleotide sequence of a new DRB1*15 variant, 1505, in a Japanese family. Shinno K, et al. **Tissue Antigens** 1995 Nov;46(5):411–3
Genomic sequence presentation. Kuzio J. **Trends Genet** 1996 Aug;12(8):321–2
[Computer system "AutoGene" for automatic analysis of nucleotide sequences] Ptitsyn AA, et al. **Mol Biol (Mosk)** 1996 Mar-Apr;30(2):432–41 **(Rus)**

GENETICS

Autonomous replication of a wheat DNA sequence in isolated wheat nuclei. Szurmak B, et al. **Acta Biochim Pol** 1997;44(1):79–82
Assessment of T-cell receptor beta-chain diversity by heteroduplex analysis. Sottini A, et al. **Hum Immunol** 1996 Jun-Jul;48(1-2):12–22

BASE SEQUENCE HOMOLOGY see **SEQUENCE HOMOLOGY, NUCLEIC ACID**

BASEBALL

The visual function of professional baseball players. Laby DM, et al. **Am J Ophthalmol** 1996 Oct;122(4):476–85
Baseball hitting, binocular vision, and the Pulfrich phenomenon [see comments] Hofeldt AJ, et al. **Arch Ophthalmol** 1996 Dec;114(12):1490–4. Comment in: Arch Ophthalmol 1997 Aug;115(8):1084–5.
Motion stereoscopic vision, the Pulfrich phenomenon, and baseball hitting [letter; comment] Laby DM, et al. **Arch Ophthalmol** 1997 Aug;115(8):1084–5. Comment on: Arch Ophthalmol 1996 Dec;114(12):1490–4.
Association between visual reaction time and batting, fielding, and earned run averages among players of the Southern Baseball League. Classé JG, et al. **J Am Optom Assoc** 1997 Jan;68(1):43–9
Association between eye and hand dominance and hitting, fielding and pitching skill among players of the Southern Baseball League. Classe JG, et al. **J Am Optom Assoc** 1996 Feb;67(2):81–6
The Olympics in Columbus: a first and a legacy. Henderson JM. **J Med Assoc Ga** 1997 Jan;86(1):37–40
Ischemia of the throwing hand in major league baseball pitchers: embolic occlusion from aneurysms of axillary artery branches. Kee ST, et al. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):979–82
Pitcher's arm: an electrodiagnostic enigma. Long RR, et al. **Muscle Nerve** 1996 Oct;19(10):1276–81
The development of sport-specific planning, rehearsal, and updating of plans during defensive youth baseball game performance. Nevett ME, et al. **Res Q Exerc Sport** 1997 Sep;68(3):203–14

EDUCATION

Development of a distance-based interval throwing program for Little League-aged athletes. Axe MJ, et al. **Am J Sports Med** 1996 Sep-Oct;24(5):594–602
Knowledge representation and problem solution in expert and novice youth baseball players. French KE, et al. **Res Q Exerc Sport** 1996 Dec;67(4):386–95

HISTORY

Babe Ruth: with vision like that, how could he hit the ball? Voisin A, et al. **Optom Vis Sci** 1997 Mar;74(3):144–6

INJURIES

Survival following blunt chest impact-induced cardiac arrest during sports activities in young athletes. Maron BJ, et al. **Am J Cardiol** 1997 Mar 15;79(6):840–1
Myocardial contusion caused by a baseball [see comments] Morikawa M, et al. **Clin Cardiol** 1996 Oct;19(10):831–3 (19 ref.). Comment in: Clin Cardiol 1996 Dec;19(12):921.
Myocardial contusion caused by a baseball [letter; comment] Storch HD. **Clin Cardiol** 1996 Dec;19(12):921. Comment on: Clin Cardiol 1996 Oct;19(10):831–3.
Fifth metacarpal stress fracture in a female softball pitcher. Jowett AD, et al. **Clin J Sport Med** 1997 Jul;7(3):220–1
Panner's disease: X-ray, MR imaging findings and review of the literature. Stoane JM, et al. **Comput Med Imaging Graph** 1995 Nov-Dec;19(6):473–6
Thoracic outlet syndrome in a throwing athlete diagnosed with MRI and MRA. Esposito MD, et al. **J Magn Reson Imaging** 1997 May-Jun;7(3):598–9
The isokinetic torque curve of shoulder instability in high school baseball pitchers. Timm KE. **J Orthop Sports Phys Ther** 1997 Sep;26(3):150–4
Irreducible dorsal dislocation of the distal interphalangeal joint: case report and literature review. Abouzahr MK, et al. **J Trauma** 1997 Apr;42(4):743–5 (9 ref.)
The influence of baseball modulus and mass on head and chest impacts: a theoretical study. Crisco JJ, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):26–36
Ball thrower's fracture of the humerus associated with radial nerve palsy. Bontempo E, et al. **Orthopedics** 1996 Jun; 19(6):537–40
Bilateral hook of the hamate fractures. McCue FC 3rd, et al. **Orthopedics** 1997 May;20(5):470–2 (30 ref.)
Ventricular fibrillation following blunt chest trauma from a baseball. van Amerongen R, et al. **Pediatr Emerg Care** 1997 Apr;13(2):107–10 (19 ref.)

PHYSIOLOGY

Upper extremity blood flow in collegiate and high school baseball pitchers A preliminary report. Bast SC, et al. **Am J Sports Med** 1996 Nov-Dec;24(6):847–51
Shoulder muscle firing patterns during the windmill softball pitch. Maffet MW, et al. **Am J Sports Med** 1997 May-Jun; 25(3):369–74
An eccentric- and concentric-strength profile of shoulder external and internal rotator muscles in professional baseball pitchers. Sirota SC, et al. **Am J Sports Med** 1997 Jan-Feb;25(1):59–64
Overarm throws with the nondominant arm: kinematics of accuracy. Hore J, et al. **J Neurophysiol** 1996 Dec; 76(6):3693–704
Concentric isokinetic shoulder internal and external rotation strength in professional baseball pitchers. Ellenbecker TS, et al. **J Orthop Sports Phys Ther** 1997 May;25(5):323–8
Dynamic stability of the elbow: electromyographic analysis of the flexor pronator group and the extensor group in pitchers with valgus instability. Hamilton CD, et al. **J Shoulder Elbow Surg** 1996 Sep-Oct;5(5):347–54
Finger flexion does not contribute to ball speed in overarm throws. Hore J, et al. **J Sports Sci** 1996 Aug;14(4):335–42

STATISTICS & NUMERICAL DATA

A triarchical model of batting abilities: applying psychological statistics to baseball. Kaufman JC. **Percept Mot Skills** 1997 Aug;85(1):299–304

BASEDOW'S DISEASE see **GRAVES' DISEASE**

BASEMENT LAMINA see **BASEMENT MEMBRANE**

BASEMENT MEMBRANE

Basement membrane (Matrigel) compresses greatly even at low pressures. Katz MA, et al. **Microvasc Res** 1996 Jan; 51(1):121–5

ABNORMALITIES

Basement membrane abnormality in merosin-negative congenital muscular dystrophy. Osari S, et al. **Acta Neuropathol (Berl)** 1996;91(4):332–6

BLOOD SUPPLY

Influence of changed blood pH on anionic sites in the labyrinth. Suzuki M, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):747–53

CHEMISTRY

Glomerular basement membrane-derived perlecan inhibits mesangial cell adhesion to fibronectin. Gauer S, et al. **Eur J Cell Biol** 1996 Jul;70(3):233–42
Changes in the distribution of integrins and their basement membrane ligands during development of human thyroid follicular epithelium. Lohi J, et al. **Histochem J** 1997 Apr; 29(4):337–45
Type IV collagen is detectable in most, but not all, basement membranes of Caenorhabditis elegans and assembles on tissues that do not express it. Graham PL, et al. **J Cell Biol** 1997 Jun 2;137(5):1171–83
cDNA cloning of the basement membrane chondroitin sulfate proteoglycan core protein, bamacan: a five domain structure including coiled-coil motifs. Wu RR, et al. **J Cell Biol** 1997 Jan 27;136(2):433–44
The extracellular domain of BPAG2 localizes to anchoring filaments and its carboxyl terminus extends to the lamina densa of normal human epidermal basement membrane. Masunaga T, et al. **J Invest Dermatol** 1997 Aug; 109(2):200–6
Purification and characterization of human nephritogenic antigen that induces anti-GBM nephritis in rats. Sado Y, et al. **J Pathol** 1997 Jun;182(2):225–32
Localization of laminin proteins during early follicular development in pig and rabbit ovaries. Lee VH, et al. **J Reprod Fertil** 1996 Sep;108(1):115–22
Localization of merosin in the normal human brain:

implications for congenital muscular dystrophy with merosin deficiency. Villanova M, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):1–4

CYTOLOGY

Transmigration of eosinophils through basement membrane components in vitro: synergistic effects of platelet-activating factor and eosinophil-active cytokines. Okada S, et al. **Am J Respir Cell Mol Biol** 1997 Apr; 16(4):455–63

Effect of intra-arterial environment on endothelialization and basement membrane organization in polytetrafluoroethylene grafts. Ombrellaro MP, et al. **Am J Surg** 1997 Jul;174(1):29–32

M cells in the rabbit palatine tonsil: the distribution, spatial arrangement and membrane subdomains as defined by confocal lectin histochemistry. Gebert A. **Anat Embryol (Berl)** 1997 Apr;195(4):353–8

DRUG EFFECTS

The permselectivity of glomerular basement membrane can be compromised by glycation or by exposure to low levels of hypochlorite. Cochrane SM, et al. **Biochim Biophys Acta** 1997 Aug 22;1361(2):217–28

Morphological changes in the basement membrane during progression from non-invasive to invasive rat bladder cancer induced by N-butyl-N-(4-hydoxybutyl) nitrosamine. Zhang XH, et al. **Br J Urol** 1997 Mar; 79(3):378–82

Influence of chronic kanamycin administration on basement membrane anionic sites in the labyrinth. Yamasoba T, et al. **Hear Res** 1996 Dec 1;102(1-2):116–24

EMBRYOLOGY

Formation of reticulated endoderm, Reichert's membrane, and amniogenesis in blastocysts of captive-bred, short-tailed fruit bats, Carollia perspicillata. Badwaik NK, et al. **Anat Rec** 1997 Jan;247(1):85–101

Unusual aspects of inner cell mass formation, endoderm differentiation, Reichert's membrane development, and amniogenesis in the lesser bulldog bat, Noctilio albiventris. Rasweiler JJ 4th, et al. **Anat Rec** 1996 Oct;246(2):293–304

Selective early innervation of a subset of epidermal cells in Xenopus may be mediated by chondroitin sulfate proteoglycans. Somasekhar T, et al. **Brain Res Dev Brain Res** 1997 Apr 18;99(2):208–15

Dystroglycan is essential for early embryonic development: disruption of Reichert's membrane in Dag1-null mice. Williamson RA, et al. **Hum Mol Genet** 1997 Jun;6(6):831–41

ENZYMOLOGY

Upregulation of basement membrane-degrading metalloproteinase secretion after balloon injury of pig carotid arteries. Southgate KM, et al. **Circ Res** 1996 Dec; 79(6):1177–87

Integrin-dependent role of human T cell matrix metalloproteinase activity in chemotaxis through a model basement membrane. Xia M, et al. **J Cell Biochem** 1996 Jun 1;61(3):452–8

IMMUNOLOGY

Anti-glomerular basement membrane antibody-induced inflammation in rat cochlear plexus. Satoh H. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):80–6

Autoantibodies against components of renal basement membrane. Hellmark T, et al. **Adv Nephrol Necker Hosp** 1997;26:291–302 (41 ref.)

Do anti-basement membrane zone antibodies cause some cases of 'senile pruritus'? [letter] Bernhard JD. **Arch Dermatol** 1997 Aug;133(8):1049–50

Serum from normal elderly individuals contains anti-basement membrane zone antibodies. Hachisuka H, et al. **Arch Dermatol** 1996 Oct;132(10):1201–5

Relationship between the in vivo localization and the immunoblotting pattern of anti-basement membrane zone antibodies in patients with bullous pemphigoid. Joly P, et al. **Arch Dermatol** 1997 Jun;133(6):719–24

The presence of anti-basement membrane zone antibodies in the sera of patients with non-bullous lupus erythematosus. Ishikawa O, et al. **Br J Dermatol** 1997 Feb; 136(2):222–6

Mechanisms of T cell-induced glomerular injury in anti-glomerular basement membrane (GBM) glomerulonephritis in rats. Huang XR, et al. **Clin Exp Immunol** 1997 Jul;109(1):134–42

Differences in the anti-basement membrane zone antibodies in ocular and pseudo-ocular cicatricial pemphigoid. Bhol K, et al. **Curr Eye Res** 1996 May;15(5):521–32

Cytotoxic reactivity of gut lamina propria CD4+ alpha beta T cells in SCID mice with colitis. Bonhagen K, et al. **Eur J Immunol** 1996 Dec;26(12):3074–83

Sequence analysis of human IgVH genes indicates that ileal lamina propria plasma cells are derived from Peyer's patches. Dunn-Walters DK, et al. **Eur J Immunol** 1997 Feb;27(2):463–7

Th2 responses induce humorally mediated injury in experimental anti-glomerular basement membrane glomerulonephritis. Huang XR, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1101–8

The 105-kDa basement membrane autoantigen p105 is N-terminally homologous to a tumor-associated antigen. Chan LS, et al. **J Invest Dermatol** 1996 Aug;107(2):209–14

A novel subepidermal blistering disease with autoantibodies to a 200-kDa antigen of the basement membrane zone [corrected and republished article originally printed in J Invest Dermatol 1996 Mar;106(3):465–70] Zillikens D, et al. **J Invest Dermatol** 1996 Jun;106(6):1333–8

IgA antibodies in chronic bullous disease of childhood react with 97 kDa basement membrane zone protein. Zone JJ, et al. **J Invest Dermatol** 1996 Jun;106(6):1277–80

Early induction of the NGFI-B/Nur77 family genes in nephritis induced by anti-glomerular basement membrane antibody. Hayashi K, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):205–9

INNERVATION

Selective early innervation of a subset of epidermal cells in Xenopus may be mediated by chondroitin sulfate proteoglycans. Somasekhar T, et al. **Brain Res Dev Brain Res** 1997 Apr 18;99(2):208–15

METABOLISM

Arrangement and identification of proteoglycans in basement membrane and intramuscular connective tissue of bovine semitendinosus muscle. Nishimura T, et al. **Acta Anat (Basel)** 1996;155(4):257–65

Altered distribution of heparan sulfate proteoglycans in psoriasis. Seyger MM, et al. **Acta Derm Venereol** 1997 Mar; 77(2):105–9

Influence of changed blood pH on anionic sites in the labyrinth. Suzuki M, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):747–53

A putative sub-10-kDa basement membrane activity required for lung alveolar formation in vitro. Matter ML, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):L489–94

Involvement of protein tyrosine kinases in regulation of endothelial cell organization by basement membrane proteins. Williams GM, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):375–80

Supramolecular assembly of basement membranes. Timpl R, et al. **Bioessays** 1996 Feb;18(2):123–32 (80 ref.)

Laminin and collagen IV subunit distribution in normal and neoplastic tissues of colorectum and breast. Hewitt RE, et al. **Br J Cancer** 1997;75(2):221–9

Proteinase inhibitors reduce basement membrane degradation by human breast cancer cell lines. Stonelake PS, et al. **Br J Cancer** 1997;75(7):951–9

The basement membrane zone in lichen sclerosus: an immunohistochemical study. Marren P, et al. **Br J Dermatol** 1997 Apr;136(4):508–14

Remodeling of pineal epithelium in the fetal rat as delineated by immunohistochemistry of laminin and cadherin. Fujieda H, et al. **Cell Tissue Res** 1997 Feb;287(2):263–74

Influence of lipopolysaccharide and interleukin-2 on proliferation and synthesis of sulfated macromolecules in cultured rat glomerular epithelial cells. Zhang B, et al. **Chin Med J (Engl)** 1996 Aug;109(8):609–14

The immunohistochemical composition of the human corneal basement membrane. Tuori A, et al. **Cornea** 1996 May; 15(3):286–94

Excessive formation of basement membrane substance in clear-cell carcinoma of the ovary: diagnostic value of the "raspberry body" in ascites cytology. Ito H, et al. **Diagn Cytopathol** 1997 Jun;16(6):500–4

Integrin and basement membrane normalization in mouse grafts of human keratinocytes—implications for epidermal homeostasis. Breitkreutz D, et al. **Differentiation** 1997 Feb; 61(3):195–209

Biochemical and functional characterization of basal lamina-bound agrin in the chick central nervous system. Kröger S, et al. **Eur J Neurosci** 1996 Mar;8(3):500–9

Extracellular matrix penetration by epithelial cells is influenced by quantitative changes in basement membrane components and growth factors. Stadler E, et al. **Exp Cell Res** 1996 Dec 15;229(2):360–9

Studies of the renal action of melatonin: evidence that the effects are mediated by 37 kDa receptors of the Mel1a subtype localized primarily to the basolateral membrane of the proximal tubule. Song Y, et al. **FASEB J** 1997 Jan; 11(1):93–100

The basement membrane and tumor progression in the uterine cervix. Nair SA, et al. **Gen Diagn Pathol** 1997 Jun; 142(5-6):297–303

Cloning and chromosomal mapping of mouse ladinin, a novel basement membrane zone component. Motoki K, et al. **Genomics** 1997 Feb 1;39(3):323–30

Expression of basement membrane type IV collagen chains during postnatal development in the murine cochlea. Cosgrove D, et al. **Hear Res** 1996 Oct;100(1-2):21–32

Immunohistochemical localization of basement membrane collagens and associated proteins in the murine cochlea. Cosgrove D, et al. **Hear Res** 1996 Aug;97(1-2):54–65

Immunohistochemical study of endometrial microvascular basement membrane components in women using Norplant. Palmer JA, et al. **Hum Reprod** 1996 Oct;11(10):2142–50

Basement-membrane stromal relationships: interactions between collagen fibrils and the lamina densa. Adachi E, et al. **Int Rev Cytol** 1997;173:73–156 (350 ref.)

Agrin binds to the nerve-muscle basal lamina via laminin. Denzer AJ, et al. **J Cell Biol** 1997 May 5;137(3):671–83

Penetration of keratinocyte-derived cytokines into basement membrane. Kondo S, et al. **J Cell Physiol** 1997 May; 171(2):190–5

Immunohistochemical studies of basement membrane proteins and proliferation and apoptosis markers in sulfur mustard induced cutaneous lesions in weanling pigs. Smith KJ, et al. **J Dermatol Sci** 1997 Sep;15(3):173–82

Basement membrane abnormalities in human eyes with diabetic retinopathy. Ljubimov AV, et al. **J Histochem Cytochem** 1996 Dec;44(12):1469–79

Localization of laminin-5 in the epidermal basement membrane. Masunaga T, et al. **J Histochem Cytochem** 1996 Nov;44(11):1223–30

There is temporal and spatial expression of alpha1 (IV), alpha2 (IV), alpha5 (IV), alpha6 (IV) collagen chains and beta1 integrins during the development of the basal lamina in an "in vitro" skin model. Fleischmajer R, et al. **J Invest Dermatol** 1997 Oct;109(4):527–33

The basal lamina is a physical barrier to herpes simplex virus-mediated gene delivery to mature muscle fibers. Huard J, et al. **J Virol** 1996 Nov;70(11):8117–23

Susceptibility to anti-glomerular basement membrane disease is strongly associated with HLA-DRB1 genes. Fisher M, et al. **Kidney Int** 1997 Jan;51(1):222–9

Pexicrine effects of basement membrane components on paracrine signaling by renal tubular cells. Lewis MP, et al. **Kidney Int** 1996 Jan;49(1):48–58

Membrane—vanadium interaction: a toxicokinetic evaluation. Upreti RK. **Mol Cell Biochem** 1995 Dec 6–20; 153(1-2):167–71 (26 ref.)

Aberrant proteoglycan composition of the glomerular basement membrane in a patient with Denys-Drash syndrome. van den Heuvel LP, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2205–11

Early increase of chondroitin sulfate glycosaminoglycan in the glomerular basement membrane of rats with diabetic glomerulopathy. Karasawa R, et al. **Nephron** 1997; 76(1):62–71

Binding of human isotransferrin variants to microvillous and basal membrane vesicles from human term placenta. Verrijt CE, et al. **Placenta** 1997 Jan;18(1):71–7

[Basal membrane proteins] Khasigov PZ, et al. **Biokhimiia** 1996 Jul;61(7):1152–68 (101 ref.) (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Degradation of human subendothelial extracellular matrix by proteinase-secreting Candida albicans. Morschhäuser J, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):349–55

Binding of Aspergillus fumigatus spores to lung epithelial cells and basement membrane proteins: relevance to the asthmatic lung. Bromley IM, et al. **Thorax** 1996 Dec; 51(12):1203–9

PATHOLOGY

Behavior of the basement membrane during carcinoma cell invasion in chemically induced carcinomas of the skin. Köpf-Maier P, et al. **Acta Anat (Basel)** 1996;155(1):1–13

Basement membrane zone. Ray MC, et al. **Clin Dermatol** 1996 Jul-Aug;14(4):321–30 (48 ref.)

Lupus and nonlupus membranous glomerulopathy. Quantitative comparison of the subepithelial deposits and glomerular basement membrane including clinicomorphologic correlations. Danilewicz M, et al. **Gen Diagn Pathol** 1997 Jun;142(5-6):305–10

Changes of the basement membrane and type IV collagen in human skin during aging. Vázquez F, et al. **Maturitas** 1996 Nov;25(3):209–15

Heightened transmigrating activity of CD4-positive T cells through reconstituted basement membrane in patients with human T-lymphotropic virus type I-associated myelopathy. Furuya T, et al. **Proc Assoc Am Physicians** 1997 May;109(3):228–36

Alterations in glomerular anionic sites in the autologous phase of canine anti-glomerular basement membrane nephritis. Sugimoto J, et al. **Toxicol Pathol** 1996 Sep-Oct; 24(5):627–35

[Growth of squamous cells lung cancer between alveolar basement membrane and alveolar epithelium] Kawabata Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):878–84 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Perspective: a suggested role for basement membrane structures during newt limb regeneration. Neufeld DA, et al. **Anat Rec** 1996 Oct;246(2):155–61

Laminin mediates basement membrane induced differentiation of HEC 1B endometrial adenocarcinoma cells. Behrens P, et al. **Biochem Cell Biol** 1996;74(6):875–86

Basement membrane induced differentiation of HEC-1B(L) endometrial adenocarcinoma cells affects both morphology and gene expression. Hopfer H, et al. **Biochem Cell Biol** 1996;74(2):165–77

Rat Sertoli cell calcium response to basement membrane and follicle-stimulating hormone. Ravindranath N, et al. **Biol Reprod** 1996 Jan;54(1):130–7

The renewal of the epidermis: a topological mechanism. Dubertret B, et al. **Biophys J** 1997 Jul;73(1):38–44

Hindered transport of macromolecules in isolated glomeruli. II. Convection and pressure effects in basement membrane. Edwards A, et al. **Biophys J** 1997 Jan;72(1):214–22

Migrating fetal astrocytes do not intravasate since they are excluded from blood vessels by vital basement membrane.

Bernstein JJ, et al. **Int J Dev Neurosci** 1996 Jun; 14(3):177–80

Process of basement membrane re-formation after intimal denudation. Yokoyama M, et al. **J Atheroscler Thromb** 1994;1(1):60–70

Requirement of basement membrane for the suppression of programmed cell death in mammary epithelium. Pullan S, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):631–42

Basement membrane and repair of injury to peripheral nerve: defining a potential role for macrophages, matrix metalloproteinases, and tissue inhibitor of metalloproteinases-1. La Fleur M, et al. **J Exp Med** 1996 Dec 1;184(6):2311–26

SURGERY

Sinus tympani: retrofacial approach for the removal of cholesteatomas. Pulec JL. **Ear Nose Throat J** 1996 Feb; 75(2):77, 81–3, 86–8

TRANSPLANTATION

The influence of cultured Schwann cells on regeneration through acellular basal lamina grafts. Gulati AK, et al. **Brain Res** 1995 Dec 24;705(1-2):118–24

ULTRASTRUCTURE

Ultrastructural characterization of internal basement membrane of junctional epithelium at dentogingival border. Sawada T, et al. **Anat Rec** 1996 Nov;246(3):317–24

Basement membrane associated changes in the rat ventral prostate following castration. de Carvalho HF, et al. **Cell Biol Int** 1996 Dec;20(12):809–19

Extracellular matrix penetration by epithelial cells is influenced by quantitative changes in basement membrane components and growth factors. Stadler E, et al. **Exp Cell Res** 1996 Dec 15;229(2):360–9

Basement membrane folds on plantar skin [letter] McGovern TW, et al. **Int J Dermatol** 1997 Jun;36(6):474–5

alpha3beta1 Integrin is required for normal development of the epidermal basement membrane. DiPersio CM, et al. **J Cell Biol** 1997 May 5;137(3):729–42

Re-evaluation of foot process effacement in acute puromycin aminonucleoside nephrosis. Inokuchi S, et al. **Kidney Int** 1996 Oct;50(4):1278–87

Most anchoring fibrils in human skin originate and terminate in the lamina densa. Shimizu H, et al. **Lab Invest** 1997 Jun; 76(6):753–63

High-resolution ultrastructural study of the rat glomerular basement membrane in aminonucleoside nephrosis. Inoue S, et al. **Ultrastruct Pathol** 1996 Sep-Oct;20(5):409–16

BASIC FIBROBLAST GROWTH FACTOR see **FIBROBLAST GROWTH FACTOR, BASIC**

BASIC LIFE SUPPORT see **CARDIOPULMONARY RESUSCITATION**

BASIC PANCREATIC TRYPSIN INHIBITOR see **APROTININ**

BASICRANIUM see **SKULL BASE**

BASIDIOMYCETES

Role of apoptosis, proliferating cell nuclear antigen and p53 protein in chemically induced colon cancer in rats fed corncob fiber treated with the fungus Pleurotus ostreatus. Zusman I, et al. **Anticancer Res** 1997 May-Jun; 17(3C):2105–13

Food-dependent exercise-induced anaphylaxis due to matsutake mushrooms [letter] Okano M, et al. **Br J Dermatol** 1997 May;136(5):805

Mushrooms: enjoying your medicine. Ger E, et al. **Del Med J** 1997 Mar;69(3):149–51

Farm-grown mushrooms (Agaricus campestris) in the diet of rats do not affect plasma and liver cholesterol concentrations. Beynen AC, et al. **Nahrung** 1996 Dec; 40(6):343–5

Hypotensive and vasorelaxing activities of a lectin from the edible mushroom Tricholoma mongolicum. Wang HX, et al. **Pharmacol Toxicol** 1996 Dec;79(6):318–23

Dietary oyster mushroom (Pleurotus ostreatus) accelerates plasma cholesterol turnover in hypercholesterolaemic rat. Bobek P, et al. **Physiol Res** 1995;44(5):287–91

Antinociceptive components of Ganoderma lucidum. Koyama K, et al. **Planta Med** 1997 Jun;63(3):224–7

Pulvinatal, a novel bioactive metabolite from the basidiomycete Nidularia pulvinata (Schw.) Fr. Becker U, et al. **Z Naturforsch [C]** 1997 May-Jun;52(5-6):313–8

Lactarane type sesquiterpenoids as inhibitors of leukotriene biosynthesis and other, new metabolites from submerged cultures of Lentinellus cochleatus (Pers. ex Fr.) Karst. Wunder A, et al. **Z Naturforsch [C]** 1996 Jul-Aug; 51(7-8):493–9

[Hallucinogenic mushrooms in Denmark] Holm JW, et al. **Ugeskr Laeger** 1997 Aug 18;159(34):5116–8 **(Dan)**

[Deodorant effects of champignon extract and repressive effects on production of indole and tryptamine in vivo] Koizumi I, et al. **Nippon Koshu Eisei Zasshi** 1997 Jan; 44(1):5–11 (Eng. Abstr.) **(Jpn)**

[Regulation of cholesterol metabolism with dietary addition of oyster mushrooms (Pleurotus ostreatus) in rats with hypercholesterolemia] Bobek P, et al. **Cas Lek Cesk** 1997 Mar 19;136(6):186–90 (Eng. Abstr.) **(Slo)**

CHEMISTRY

Antitumor effects of a new polysaccharide-protein complex (ATOM) prepared from Agaricus blazei (Iwade strain 101) "Himematsutake" and its mechanisms in tumor-bearing mice. Ito H, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):277–84

Actions of lectins from the mushroom Tricholoma mongolicum on macrophages, splenocytes and life-span in sarcoma-bearing mice. Wang HX, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):419–24

Fip-vvo, a new fungal immunomodulatory protein isolated from Volvariella volvacea. Hsu HC, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):557–65

Anti-hyperliposis effect of maitake fruit body (Grifola frondosa). I. Kubo K, et al. **Biol Pharm Bull** 1997 Jul; 20(7):781–5

Antifibrotic effects of a polysaccharide extracted from Ganoderma lucidum, glycyrrhizin, and pentoxifylline in rats with cirrhosis induced by biliary obstruction. Park EJ, et al. **Biol Pharm Bull** 1997 Apr;20(4):417–20

Heavy metal content in wood-decaying fungi collected in Prague and in the National Park Sumavain the Czech Republic. Gabriel J, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):595–602

Characterisation of acidic heteroglycans from Tremella fuciformis Berk with cytokine stimulating activity. Gao Q, et al. **Carbohydr Res** 1996 Jul 19;288:135–42

Study of mercury content in edible mushrooms. Revel S, et al. **Cent Eur J Public Health** 1996;4 Suppl:49–50

Effect of the basidiomycete Poria cocos on experimental dermatitis and other inflammatory conditions. Cuellar MJ, et al. **Chem Pharm Bull (Tokyo)** 1997 Mar;45(3):492–4

Michael-type addition of illudin S, a toxic substance from Lampteromyces japonicus, with cysteine and cysteine-containing peptides in vitro. Tanaka K, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):273–9

Immunomodulation and antitumor activity of polysaccharide-protein complex from the culture filtrates of a local edible mushroom, Tricholoma lobayense. Liu F, et al. **Gen Pharmacol** 1996 Jun;27(4):621–4

Polysaccharopeptide from the mushroom Coriolus versicolor possesses analgesic activity but does not produce adverse effects on female reproductive or embryonic development in mice. Ng TB, et al. **Gen Pharmacol** 1997 Aug; 29(2):269–73

DNA sequence and secondary structure of the mitochondrial small subunit ribosomal RNA coding region including a group-IC2 intron from the cultivated basidiomycete Agrocybe aegerita. Gonzalez P, et al. **Gene** 1997 Jan 3; 184(1):55–63

Purification and carbohydrate-binding specificity of Agrocybe cylindracea lectin. Yagi F, et al. **Glycoconj J** 1997 Feb;14(2):281–8

Concentrations of 137Cs and 40K in edible mushrooms collected in Japan and radiation dose due to their consumption. Ban-nai T, et al. **Health Phys** 1997 Mar; 72(3):384–9

Effects of Lentinus edodes, Grifola frondosa and Pleurotus ostreatus administration on cancer outbreak, and activities of macrophages and lymphocytes in mice treated with a carcinogen, N-butyl-N-butanolnitrosoamine. Kurashige S, et al. **Immunopharmacol Immunotoxicol** 1997 May; 19(2):175–83

The isolation and characterization of an immunomodulatory and anti-tumor polysaccharide preparation from Flammulina velutipes. Leung MY, et al. **Immunopharmacology** 1997 Jan;35(3):255–63

The immunomodulatory and antitumor activities of lectins from the mushroom Tricholoma mongolicum. Wang HX, et al. **Immunopharmacology** 1996 Mar;31(2-3):205–11

The anti-tumor effect of Ganoderma lucidum is mediated by cytokines released from activated macrophages and T lymphocytes. Wang SY, et al. **Int J Cancer** 1997 Mar 17; 70(6):699–705

Novel methods for identification and quantification of the mushroom nephrotoxin orellanine. Thin-layer chromatography and electrophoresis screening of mushrooms with electron spin resonance determination of the toxin. Oubrahim H, et al. **J Chromatogr A** 1997 Jan 10;758(1):145–57

Fast atom bombardment mass spectrometry and linked scan analyses at constant B/E in the structural characterization of new polyisoprenepolyols isolated from an edible mushroom (Hypsizigus marmoreus). Sawabe A, et al. **J Mass Spectrom** 1996 Aug;31(8):921–5

New indole derivatives with free radical scavenging activity from Agrocybe cylindracea. Kim WG, et al. **J Nat Prod** 1997 Jul;60(7):721–3

(Hydroxymethyl)acylfulvene: an illudin derivative with superior antitumor properties. McMorris TC, et al. **J Nat Prod** 1996 Sep;59(9):896–9

Cardiovascular effects of the fungal extract of basidiomycetes sp. YL8006. Andreacchi AS, et al. **Life Sci** 1997; 60(22):1987–94

Free radical scavenging activities of mushroom polysaccharide extracts. Liu F, et al. **Life Sci** 1997; 60(10):763–71

Suppressive effects of Ganoderma lucidum on proliferation of peripheral blood mononuclear cells. Kim RS, et al. **Mol Cells** 1997 Feb 28;7(1):52–7

Toxic and antibiotic properties of red thread, Laetisaria fuciformis. di Menna ME, et al. **Mycopathologia** 1996; 135(3):187–90

Screening of selected basidiomycetes for inhibitory activity on neutral endopeptidase (NEP) and angiotensin-converting enzyme (ACE). Melzig MF, et al. **Pharmazie** 1996 Jul;51(7):501–3

Three edible wild mushrooms from Nigeria: their proximate and mineral composition. Alofe FV, et al. **Plant Foods Hum Nutr** 1996 Jan;49(1):63–73

The concentrations and bioconcentration factors of mercury in mushrooms from the Mierzeja Wiślana sand-bar, northern Poland. Falandysz J, et al. **Sci Total Environ** 1997 Sep 15;203(3):221–8

Data on arsenic and cadmium contents of some common mushrooms. Vetter J. **Toxicon** 1994 Jan;32(1):11–5

[Mercury in edible mushrooms from the area of Kościersk forests and from the Vistula peninsula] Falandysz J, et al. **Rocz Panstw Zakl Hig** 1996;47(2):205–10 (Eng. Abstr.) **(Pol)**

CLASSIFICATION

Differentiation and grouping of isolates of the Ganoderma lucidum complex by random amplified polymorphic DNA-PCR compared with grouping on the basis of internal transcribed spacer sequences. Hseu RS, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1354–63

[Practical guidelines for diagnosis and treatment of mushroom poisoning. National Institute for Public Health and Environment. National Poison Information Center (RIVM, NVIC)] Beltman W, et al. **Ned Tijdschr Geneeskd** 1996 Sep 21;140(38):1894–9 **(Dut)**

DRUG EFFECTS

Stimulation of aryl metabolite production in the basidiomycete Bjerkandera sp. strain BOS55 with biosynthetic precursors and lignin degradation products. Mester T, et al. **Appl Environ Microbiol** 1997 May; 63(5):1987–94

Isolation of mRNAs induced by a hazardous chemical in white-rot fungus, Coriolus versicolor, by differential display. Iimura Y, et al. **FEBS Lett** 1997 Jul 28;412(2):370–4

ENZYMOLOGY

Stabilization of lignin peroxidases in white rot fungi by tryptophan. Collins PJ, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2543–8

Isolation of laccase gene-specific sequences from white rot and brown rot fungi by PCR. D'Souza TM, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3739–44

Cloning of a cDNA encoding cellobiose dehydrogenase, a hemoflavoenzyme from Phanerochaete chrysosporium. Li B, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1329–35

Identification of a laccase gene family in the new lignin-degrading basidiomycete CECT 20197. Mansur M, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2637–46

Characterization of manganese peroxidases from the hyperlignolytic fungus IZU-154. Matsubara M, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4066–72

Polymerization of pentachlorophenol and ferulic acid by fungal extracellular lignin-degrading enzymes. Rüttimann-Johnson C, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3890–3

Plasmids isolated from marine sediment microbial communities contain replication and incompatibility regions unrelated to those of known plasmid groups. Sobecky PA, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):888–95

Efficient expression of a Phanerochaete chrysosporium manganese peroxidase gene in Aspergillus oryzae. Stewart P, et al. **Appl Environ Microbiol** 1996 Mar;62(3):860–4

Resonance Raman spectroscopic studies of cellobiose dehydrogenase from Phanerochaete chrysosporium. Cohen JD, et al. **Arch Biochem Biophys** 1997 May 15;341(2):321–8

Effect of calcium on the reversible thermal inactivation of lignin peroxidase. Nie G, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):225–31

Haloperoxidase activity of manganese peroxidase from Phanerochaete chrysosporium. Sheng D, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):126–34

Further studies on the inactivation by sodium azide of lignin peroxidase from Phanerochaete chrysosporium. Tatarko M, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):200–9

Site-directed mutations at phenylalanine-190 of manganese peroxidase: effects on stability, function, and coordination. Kishi K, et al. **Biochemistry** 1997 Apr 8;36(14):4268–77

Thermodynamics of binding of the distal calcium to manganese peroxidase. Sutherland GRJ, et al. **Biochemistry** 1997 Jul 15;36(28):8567–73

Functional and structural comparison of nitric oxide reductases from denitrifying fungi Cylindrocarpon tonkinense and Fusarium oxysporum. Toritsuka N, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):93–9

'Yellow' laccase of Panus tigrinus oxidizes non-phenolic substrates without electron-transfer mediators. Leontievsky A, et al. **FEBS Lett** 1997 Aug 25;413(3):446–8

Localization of cellobiose dehydrogenase in cellulose-grown cultures of Phanerochaete chrysosporium. Igarashi K, et al. **Fungal Genet Biol** 1997 Apr;21(2):214–22

BASIDIOMYCETES

Cloning and characterization of three laccase genes from the white-rot basidiomycete Trametes villosa: genomic organization of the laccase gene family. Yaver DS, et al. **Gene** 1996 Nov 28;181(1-2):95-102

Characterization of a thermostable lysine-specific metalloendopeptidase from the fruiting bodies of a basidiomycete, Grifola frondosa. Nonaka T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1014-20

Identification of a phenolic 3-O-methyltransferase in the lignin-degrading fungus Phanerochaete chrysosporium. Jeffers MR, et al. **Microbiology** 1997 Jun;143 (Pt 6):1975-81

[Effect of culture conditions on the production of cellulases by Trametes trogii] Levin L, et al. **Rev Argent Microbiol** 1997 Jan-Mar;29(1):16-23 (Eng. Abstr.) **(Spa)**

GENETICS

Improved heterologous expression of the white-rot fungal ligninase H8 by crossover linker mutagenesis. Lin Q, et al. **Appl Biochem Biotechnol** 1997 Jun;66(3):269-79

Stabilization of lignin peroxidases in white rot fungi by tryptophan. Collins PJ, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2543-8

Ribosomal DNA internal transcribed spacers to estimate the proportion of Pisolithus tinctorius and Eucalyptus RNAs in ectomycorrhiza. Diaz EC, et al. **Appl Environ Microbiol** 1997 Mar;63(3):840-3

Differentiation and grouping of isolates of the Ganoderma lucidum complex by random amplified polymorphic DNA-PCR compared with grouping on the basis of internal transcribed spacer sequences. Hseu RS, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1354-63

Identification of a novel cytochrome P-450 gene from the white rot fungus Phanerochaete chrysosporium. Kullman SW, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2741-6

Cloning of a cDNA encoding cellobiose dehydrogenase, a hemoflavoenzyme from Phanerochaete chrysosporium. Li B, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1329-35

Cellobiose dehydrogenase from Phanerochaete chrysosporium is encoded by two allelic variants. Li B, et al. **Appl Environ Microbiol** 1997 Feb;63(2):796-9

Identification of a laccase gene family in the new lignin-degrading basidiomycete CECT 20197. Mansur M, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2637-46

Purification, characterization, molecular cloning, and expression of two laccase genes from the white rot basidiomycete Trametes villosa. Yaver DS, et al. **Appl Environ Microbiol** 1996 Mar;62(3):834-41

Characterization of the gene encoding manganese peroxidase isozyme 3 from Phanerochaete chrysosporium. Alic M, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):1-7

Improved method for isolation of DNA from slow-growing basidiomycetes such as Armillaria mellea. Flynn TM, et al. **Biotechniques** 1997 Jan;22(1):47, 50-2

Truncated-gene reporter system for studying the regulation of manganese peroxidase expression. Gettemy JM, et al. **Curr Genet** 1997 Jun;31(6):519-24

Non-Mendelian and skewed segregation of DNA markers in wide crosses of the bean rust fungus, Uromyces appendiculatus. Martinez JP, et al. **Curr Genet** 1996 Jan; 29(2):159-67

Mitochondrial DNA inheritance in sexual crosses of Pleurotus ostreatus. Matsumoto T, et al. **Curr Genet** 1996 Dec;30(6):549-52

Variability and inheritance of double-stranded RNA viruses in Phaffia rhodozyma. Pfeiffer I, et al. **Curr Genet** 1996 Sep;30(4):294-7

Phylogenetic evidence for horizontal transmission of group I introns in the nuclear ribosomal DNA of mushroom-forming fungi. Hibbett DS. **Mol Biol Evol** 1996 Sep;13(7):903-17

Characterization of in planta-induced rust genes isolated from a haustorium-specific cDNA library. Hahn M, et al. **Mol Plant Microbe Interact** 1997 May;10(4):427-37

A putative amino acid transporter is specifically expressed in haustoria of the rust fungus Uromyces fabae. Hahn M, et al. **Mol Plant Microbe Interact** 1997 May;10(4):438-45

Independent, specialized invasions of ectomycorrhizal mutualism by two nonphotosynthetic orchids. Taylor DL, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4510-5

GROWTH & DEVELOPMENT

Production of carpophores of Lentinus edodes and Ganoderma lucidum grown on cork residues. Riu H, et al. **Microbiologia** 1997 Jun;13(2):185-92

IMMUNOLOGY

The immunomodulatory and antitumor activities of lectins from the mushroom Tricholoma mongolicum. Wang HX, et al. **Immunopharmacology** 1996 Mar;31(2-3):205-11

Stimulation of humoral and cell mediated immunity by polysaccharide from mushroom Phellinus linteus. Kim HM, et al. **Int J Immunopharmacol** 1996 May;18(5):295-303

Hypersensitivity pneumonitis induced by spores of Pholiota nameko. Inage M, et al. **Intern Med** 1996 Apr;35(4):301-4

METABOLISM

Molecular characterization, relatedness and antifungal susceptibility of the basidiomycetous Hormographiella species and Coprinus cinereus from clinical and environmental sources. Gené J, et al. **Antonie Van Leeuwenhoek** 1996 Jul;70(1):49-57

Expression of lip genes during growth in soil and oxidation of anthracene by Phanerochaete chrysosporium. Bogan BW, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3697-703

Biological degradation of tannins in sericea lespedeza (Lespedeza cuneata) by the white rot fungi Ceriporiopsis subvermispora and Cyathus stercoreus analyzed by solid-state 13C nuclear magnetic resonance spectroscopy. Gamble GR, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3600-4

Stimulation of aryl metabolite production in the basidiomycete Bjerkandera sp. strain BOS55 with biosynthetic precursors and lignin degradation products. Mester T, et al. **Appl Environ Microbiol** 1997 May; 63(5):1987-94

Degradation of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans by the white rot fungus Phanerochaete sordida YK-624. Takada S, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4323-8

Interference of peptone and tyrosine with the lignin peroxidase assay. ten Have R, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3301-3

Accumulation and effect of cadmium in the wood-rotting basidiomycete Daedalea quercina. Gabriel J, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):383-90

Fungal cleavage of thioether bond found in Yperite. Itoh N, et al. **FEBS Lett** 1997 Jul 28;412(2):281-4

The effect of white-rot basidiomycetes on chemical composition and in vitro digestibility of wheat straw. Jalč D, et al. **Folia Microbiol (Praha)** 1996;41(1):73-5

Nidulal, a novel inducer of differentiation of human promyelocytic leukemia cells from Nidula candida. Erkel G, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1189-95

Purification and characterization of two novel hypersensitive response-inducing specific elicitors produced by the cowpea rust fungus. D'Silva I, et al. **J Biol Chem** 1997 Feb 14;272(7):3924-7

Novel beta-methoxyacrylates of the 9-methoxystrobilurin and oudesmansin classes produced by the basidiomycete Favolaschia pustulosa. Wood KA, et al. **J Nat Prod** 1996 Jul;59(7):646-9

Cytotoxicity of extracts from the mushroom Paxillus involutus. Habtemariam S. **Toxicon** 1996 Jun;34(6):711-3

PATHOGENICITY

Molecular cloning of a new receptor-like kinase gene encoded at the Lr10 disease resistance locus of wheat. Feuillet C, et al. **Plant J** 1997 Jan;11(1):45-52

PHYSIOLOGY

Cellular graviperception in the basidiomycete Flammulina velutipes--can the nuclei serve as fungal statoliths? Monzer J. **Eur J Cell Biol** 1996 Oct;71(2):216-20

Eucalypt alpha-tubulin: cDNA cloning and increased level of transcripts in ectomycorrhizal root system. Diaz EC, et al. **Plant Mol Biol** 1996 Jul;31(4):905-10

Differential effect of purified spruce chitinases and beta-1,3-glucanases on the activity of elicitors from ectomycorrhizal fungi. Salzer P, et al. **Plant Physiol** 1997 Jul;114(3):957-68

VIROLOGY

Characterization of an RNA-dependent RNA polymerase activity associated with La France isometric virus. Goodin MM, et al. **J Virol** 1997 Mar;71(3):2264-9

BASIL

Antidiarrhoeal activities of Ocimum gratissimum (Lamiaceae). Ilori M, et al. **J Diarrhoeal Dis Res** 1996 Dec; 14(4):283-5

CHEMISTRY

Chemical and pharmacological studies on fixed oil of Ocimum sanctum. Singh S, et al. **Indian J Exp Biol** 1996 Dec;34(12):1212-5

Randomized placebo-controlled, single blind trial of holy basil leaves in patients with noninsulin-dependent diabetes mellitus. Agrawal P, et al. **Int J Clin Pharmacol Ther** 1996 Sep;34(9):406-9

BASILAR ARTERY

Relationship between clot location and outcome after basilar artery thrombolysis. Cross DT 3rd, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1221-8

Basilar artery rethrombosis: successful treatment with platelet glycoprotein IIB/IIIA receptor inhibitor. Wallace RC, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1257-60

Endovascular extraction of malpositioned fibered platinum microcoils from the aneurysm sac during endovascular therapy. Zoarski GH, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):691-5

Hiccups associated with lateral medullary syndrome. A case report. Nickerson RB, et al. **Am J Phys Med Rehabil** 1997 Mar-Apr;76(2):144-6

Thrombosed fusiform basilar aneurysm associated with Klippel-Trenaunay-Weber syndrome: case report. Ouellet MC, et al. **Can Assoc Radiol J** 1997 Feb;48(1):28-32

Basilar artery occlusion associated with anabolic steroid abuse in a 17-year-old bodybuilder. Pálfi S, et al. **Eur Neurol** 1997;37(3):190-1

Temporary subclavian steal to reduce intraprocedural embolic risk during detachable balloon occlusion of vertebrobasilar aneurysms: technical note with two case reports. Eckard DA, et al. **J Endovasc Surg** 1996 Nov; 3(4):423-8

Placement of mechanically detachable spiral coils in the endovascular treatment of intracranial aneurysms. Work in progress. Saatci I, et al. **J Vasc Interv Radiol** 1996 Jan-Feb;7(1):75-9

Giant fusiform aneurysm presenting as fatal basilar artery occlusion. Wijdicks EF. **Mayo Clin Proc** 1997 May; 72(5):437-9

Percutaneous transluminal angioplasty of atherosclerotic basilar artery stenosis. Houdart E, et al. **Neuroradiology** 1996 May;38(4):383-5

Middle cerebral artery occlusion after pterional approach to basilar bifurcation aneurysm: technical case report. Hua SE, et al. **Neurosurgery** 1996 Nov;39(5):1050-3; discussion 1053-4

Giant basilar artery aneurysm with intramural hemorrhage and then disastrous hemorrhage: case report. Koyama S, et al. **Neurosurgery** 1996 Jul;39(1):174-7; discussion 177-8

Selective occlusion of basilar artery aneurysms using controlled detachable coils: report of 35 cases. Pierot L, et al. **Neurosurgery** 1996 May;38(5):948-53; discussion 953-4

Basilar tip aneurysm: endovascular treatment with Guglielmi detachable coils--midterm results. Klein GE, et al. **Radiology** 1997 Oct;205(1):191-6

Intra-aneurysmal GDC embolization followed by intrathecal tPA administration for poor-grade basilar tip aneurysm. Ezura M, et al. **Surg Neurol** 1997 Feb;47(2):144-7; discussion 147-8 (20 ref.)

[Fusiform aneurysm of the basilar artery in Recklinghausen's disease] Kirchhof K, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):412-4 **(Ger)**

[Anesthesia combined with profound hypothermia using cardiopulmonary bypass for clipping of giant basilar artery aneurysm] Kawamata T, et al. **Masui** 1996 Nov; 45(11):1388-92 (Eng. Abstr.) **(Jpn)**

[Case of bilateral hearing loss with basilar artery thrombosis] Kurono A, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):122-3 **(Jpn)**

[Basilar artery aneurysm associated with agenesis of unilateral internal carotid artery: two case reports] Sugiura Y, et al. **No Shinkei Geka** 1997 Apr;25(4):385-90 (Eng. Abstr.) **(Jpn)**

[A case of basilar artery occlusion associated with one-and-a-half syndrome, paralytic pontine exotropia and WEBINO-syndrome] Furiya Y, et al. **No To Shinkei** 1997 Jun;49(6):558-62 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Persistent primitive lateral vertebrobasilar anastomosis. De Caro R, et al. **Acta Neurochir (Wien)** 1996;138(5):592-4

Combined endarterectomy of the internal carotid artery and persistent hypoglossal artery: an unusual case of carotid revascularization. Cartier R, et al. **Can J Surg** 1996 Apr; 39(2):159-62

MR imaging and MR angiography of persistent trigeminal artery and its variant. Uchino A, et al. **Clin Imaging** 1996 Oct-Dec;20(4):247-52

Persistent trigeminal artery as a cause of dizziness. Battista RA, et al. **Ear Nose Throat J** 1997 Jan;76(1):43-5 (18 ref.)

MRI and MR angiography of persistent trigeminal artery. Piotin M, et al. **Neuroradiology** 1996 Nov;38(8):730-3

Trigeminal neuralgia caused by dolichovertebral artery [letter; comment] D'Andrea V, et al. **Surg Neurol** 1996 Dec; 46(6):607. Comment on: Surg Neurol 1995 Feb;43(2):151-3.

A ruptured aneurysm at the distal end of the basilar artery fenestration associated with multiple fenestrations of the vertebrobasilar system: case report. Fujimura M, et al. **Surg Neurol** 1997 May;47(5):469-72 (22 ref.)

[Saccular aneurysm associated with fenestration of the distal segment of basilar artery] Imaizumi T, et al. **No Shinkei Geka** 1996 Jul;24(7):639-42 (Eng. Abstr.) **(Jpn)**

[A case of repetitive cerebellar ataxia with persistent primitive trigeminal artery] Yaginuma M, et al. **No To Shinkei** 1997 Apr;49(4):343-7 (20 ref.) (Eng. Abstr.) **(Jpn)**

ANATOMY & HISTOLOGY

Microsurgical anatomy of the final division of the basilar artery. Michalik R, et al. **Folia Morphol (Warsz)** 1996; 55(4):393-5

The influence of the angle of confluence on the flow in a vertebro-basilar junction model. Ravensbergen J, et al. **J Biomech** 1996 Mar;29(3):281-99

The influence of the blunting of the apex on the flow in a vertebro-basilar junction model. Ravensbergen J, et al. **J Biomech Eng** 1997 May;119(2):195-205

CHEMISTRY

Evidence for peroxidative damage by nitric oxide in experimental chronic cerebral vasospasm. Medele RJ, et al. **Neurol Res** 1996 Jun;18(3):277-80

DRUG EFFECTS

Effect of ketanserin on 5-hydroxytryptamine-induced constriction in isolated, perfused canine basilar arteries exposed to blood. Tsuji T, et al. **Acta Neurochir (Wien)** 1996;138(9):1109-16; discussion 1116-7

Membrane currents evoked by histamine in rabbit basilar artery. Kamouchi M, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H638-47

Exogenous tetrahydrobiopterin causes endothelium-dependent contractions in isolated canine basilar artery. Kinoshita H, et al. **Am J Physiol** 1996 Aug; 271(2 Pt 2):H738-43

Effect of nitric oxide and potassium channel agonists and inhibitors on basilar artery diameter. Sobey CG, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H256-62

Characterization of 5-hydroxytryptamine receptors mediating contractions in basilar arteries from stroke-prone spontaneously hypertensive rats. Nishimura Y. **Br J Pharmacol** 1996 Mar;117(6):1325-1333

Role of nitric oxide in the contractile response to 5-hydroxytryptamine of the basilar artery from Wistar Kyoto and stroke-prone rats. Salomone S, et al. **Br J Pharmacol** 1997 Jul;121(6):1051-8

Naratriptan: biological profile in animal models relevant to migraine [see comments] Connor HE, et al. **Cephalalgia** 1997 May;17(3):145-52. Comment in: Cephalalgia 1997 May;17(3):143.

Relaxant effects of vasodilator peptides on isolated basilar arteries from stroke-prone spontaneously hypertensive rats. Nishimura Y, et al. **Clin Exp Pharmacol Physiol** 1997 Feb; 24(2):157-61

Nitric oxide and effects of cationic polypeptides in canine cerebral arteries. Kinoshita H, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):470-80

Effects of intraluminal or extraluminal endothelin on perfused rabbit basilar arteries. Kazuki S, et al. **J Neurosurg** 1997 May;86(5):859-65

Inhibition by bosentan, an endothelin antagonist, of the hypersensitivity to Ca2+ channel activator evoked by salt-loading in basilar artery of stroke-prone spontaneously hypertensive rats. Salomone S, et al. **Life Sci** 1996; 59(16):PL247-53

Effects of angiotensin I and angiotensin II in blood vessels: greater influence of converting enzyme activity in the rabbit basilar artery. Zerrouk A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):466-73

Sodium nitroprusside and cGMP decrease Ca2+ channel availability in basilar artery smooth muscle cells. Tewari K, et al. **Pflugers Arch** 1997 Jan;433(3):304-11

Effect of subarachnoid hemorrhage on cerebral vasodilatation in response to activation of ATP-sensitive K+ channels in chronically hypertensive rats. Sobey CG, et al. **Stroke** 1997 Feb;28(2):392-6; discussion 396-7

INJURIES

Traumatic aneurysm of the basilar artery. Quintana F, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):283-5

Traumatic tear of the basilar artery associated with vertebral column injuries. Sato Y, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):129-34 (21 ref.)

Autopsy findings of fatal complication of posterior cerebral circulation angioplasty. Volk EE, et al. **Arch Pathol Lab Med** 1997 Jul;121(7):738-40

[Traumatic basilar artery dissection presenting with "locked-in" syndrome: report of a case] Ueyama T, et al. **No Shinkei Geka** 1996 Nov;24(11):1035-9 (Eng. Abstr.) **(Jpn)**

METABOLISM

Effects of anion exchange on intracellular pH and tension in basilar artery of dogs. Yu J, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1912-7

Expression and function of recombinant endothelial nitric oxide synthase gene in canine basilar artery. Chen AF, et al. **Circ Res** 1997 Mar;80(3):327-35

Protein synthesis and immunoreactivities of contraction-related proteins in smooth muscle cells of canine basilar artery after experimental subarachnoid hemorrhage. Oka Y, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1335-44

Modulation of Ca2+ channel activity by ATP metabolism and internal Mg2+ in guinea-pig basilar artery smooth muscle cells. McHugh D, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):359-76

Hemolysate inhibits L-type Ca2+ channels in rat basilar smooth muscle cells. Kim CJ, et al. **J Vasc Res** 1996 May-Jun;33(3):258-64

Role of potassium channels in relaxations of isolated canine basilar arteries to acidosis. Kinoshita H, et al. **Stroke** 1997 Feb;28(2):433-7; discussion 437-8

PATHOLOGY

Reduced expression of calponin in canine basilar artery after subarachnoid haemorrhage. Doi M, et al. **Acta Neurochir (Wien)** 1997;139(1):77-81

Scanning electron microscopic findings in a basilar tip aneurysm embolized with Guglielmi detachable coils. Horowitz MB, et al. **AJNR Am J Neuroradiol** 1997 Apr; 18(4):688-90

Megalodolichobasilaris: the effect of atherosclerosis on a previously weakened arterial wall? De Caro R, et al. **Clin Neuropathol** 1996 Jul-Aug;15(4):187-91 (32 ref.)

Extracranial and intracranial vertebrobasilar dissections: diagnosis and prognosis. de Bray JM, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):46-51

Follow-up evaluation of dissecting aneurysms of the vertebrobasilar circulation by using gadolinium-enhanced magnetic resonance imaging. Nagahiro S, et al. **J Neurosurg** 1997 Sep;87(3):385-90

Ruptured fusiform aneurysm of the superior third of the basilar artery associated with the absence of the midbasilar artery. Case report. Ricolfi F, et al. **J Neurosurg** 1996 Nov; 85(5):961-5

Bilateral vestibular loss in vertebrobasilar dolichoectasia. Nuti D, et al. **J Vestib Res** 1996 Mar-Apr;6(2):85-91

Non-aneurysmal subarachnoid hemorrhage associated with basilar artery dissection--autopsy case report. Ogiichi T, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):612-5

Fibromuscular dysplasia with dissection of basilar artery presenting as "locked-in-syndrome". Arunodaya GR, et al. **Neurology** 1997 Jun;48(6):1605-8

[Ruptured fusiform aneurysm of the basilar artery with minimal atherosclerosis--report of a case (published erratum appears in No To Shinkei 1997 Jul;49(7):645)] Takao M, et al. **No To Shinkei** 1997 Jun;49(6):553-7 (Eng. Abstr.) **(Jpn)**

[Dolichoectasia of multiple cranial arteries. Findings on neuroimaging and transcranial Doppler] Egido JA, et al. **Rev Neurol** 1997 Jun;25(142):872-4 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Vasodilation by intrathecal lipopolysaccharide of the cerebral arteries after subarachnoid haemorrhage in dogs. Tanazawa T, et al. **Acta Neurochir (Wien)** 1996;138(3):330-7

Membrane currents evoked by histamine in rabbit basilar artery. Kamouchi M, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H638-47

Exogenous tetrahydrobiopterin causes endothelium-dependent contractions in isolated canine basilar artery. Kinoshita H, et al. **Am J Physiol** 1996 Aug; 271(2 Pt 2):H738-43

Inhibition of tetrahydrobiopterin biosynthesis impairs endothelium-dependent relaxations in canine basilar artery. Kinoshita H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H718-24

Effect of nitric oxide and potassium channel agonists and inhibitors on basilar artery diameter. Sobey CG, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H256-62

Age dependency of nanosecond fluorescence characteristics in human arteries. Araki T, et al. **Front Med Biol Eng** 1996; 7(4):265-73

Differential modulation by the endothelium of contractile responses to 5-hydroxytryptamine, noradrenaline, and histamine in the rabbit isolated basilar artery. Ohnuki A, et al. **Gen Pharmacol** 1997 May;28(5):681-7

Responses to mechanical stimuli of isolated basilar and femoral arteries of the Rhesus monkey are different. Sipkema P, et al. **Heart Vessels** 1996;11(1):18-26

Mechanisms of electrical field stimulation-induced vasodilatation in the guinea-pig basilar artery: the role of endothelium. Jiang F, et al. **J Auton Pharmacol** 1997 Apr; 17(2):71-6

The influence of the angle of confluence on the flow in a vertebro-basilar junction model. Ravensbergen J, et al. **J Biomech** 1996 Mar;29(3):281-99

The influence of the blunting of the apex on the flow in a vertebro-basilar junction model. Ravensbergen J, et al. **J Biomech Eng** 1997 May;119(2):195-205

Nitric oxide and effects of cationic polypeptides in canine cerebral arteries. Kinoshita H, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):470-80

Interaction between the L-type Ca2+ channel and the Ca(2+)-activated K+ channel in the fluctuating myogenic contraction in the rabbit basilar artery. Omote M, et al. **Jpn J Physiol** 1996 Aug;46(4):353-6

Impairment of vasodilator function in basilar arteries from aged rats. Arribas SM, et al. **Stroke** 1997 Sep;28(9):1812-20

Harmonic imaging of the vertebrobasilar system. Seidel G, et al. **Stroke** 1997 Aug;28(8):1610-3

Age-related changes in response of brain stem vessels to opening of ATP-sensitive potassium channels. Toyoda K, et al. **Stroke** 1997 Jan;28(1):171-5

PHYSIOPATHOLOGY

Basilar artery blood flow during head rotation in vertebrobasilar ischemia. Petersen B, et al. **Acta Neurol Scand** 1996 Oct;94(4):294-301

Flow dynamics in a fatal aneurysm of the basilar artery. Kerber CW, et al. **AJNR Am J Neuroradiol** 1996 Sep; 17(8):1417-21

Arterial dissection of the vertebrobasilar systems: a possible cause of acute sensorineural hearing loss. Nagahata M, et al. **Am J Otol** 1997 Jan;18(1):32-8

Functional activity of Ca2+-dependent K+ channels is increased in basilar artery during chronic hypertension. Paternò R, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1287-91

Role of ATP-sensitive potassium channels in brain stem circulation during hypotension. Toyoda K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1342-6

Basilar migraine. Kuhn WF, et al. **Eur J Emerg Med** 1997 Mar;4(1):33-8

Impairment of endothelium-dependent relaxation of the isolated basilar artery from streptozotocin-induced diabetic rats. Kamata K, et al. **Res Commun Mol Pathol Pharmacol** 1996 Dec;94(3):239-49

Role of extracellular Ca2+ in subarachnoid hemorrhage-induced spasm of the rabbit basilar artery. Zuccarello M, et al. **Stroke** 1996 Oct;27(10):1896-902

[A case of basilar artery aneurysm with many years of survival] Kwasucki J, et al. **Neurol Neurochir Pol** 1996 Jul-Aug;30(4):683-9 (Eng. Abstr.) **(Pol)**

[Reactivity of the basilar artery in the brain of Krushinskĭ-Molodkina line rats one day after an audiogenic epileptiform seizure] Storozhevykh TP, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):131-4 **(Rus)**

[Ultrasonic diagnosis in the area of the carotid and vertebrobasilar circulation] Pancák J, et al. **Vnitr Lek** 1996 Jul;42(7):500-2 (Eng. Abstr.) **(Slo)**

[Bilateral hypoacusia and basilar dolichoectasia] López-Dominguez JM, et al. **Rev Neurol** 1996 Dec; 24(136):1538-40 (Eng. Abstr.) **(Spa)**

[Untreatable hiccup as un unusual sign in a rostral occlusion syndrome of the basilar artery] Revilla B, et al. **Rev Neurol** 1996 Mar;24(127):306-10 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Vertebrobasilar dolichoectasia: evaluation with CT angiography. Vieco PT, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1385-8

Diagnosis and endovascular treatment of midbasilar dissecting aneurysm. Boulanger TH, et al. **J Belge Radiol** 1996 Aug;79(4):171-4

Basilar artery fenestration in association with aneurysms of the posterior cerebral circulation. Tasker AD, et al. **Neuroradiology** 1997 Mar;39(3):185-9

Cause of perimesencephalic hyperattenuation in cases of ruptured vertebrobasilar aneurysm [letter; comment] Friedman D. **Radiology** 1997 Jun;203(3):884. Comment on: Radiology 1996 Dec;201(3):657-60.

Ruptured vertebrobasilar aneurysms: frequency of the nonaneurysmal perimesencephalic pattern of hemorrhage on CT scans [see comments] Kallmes DF, et al. **Radiology** 1996 Dec;201(3):657-60. Comment in: Radiology 1997 Jun;203(3):884.

SURGERY

Treatment of dissecting basilar artery aneurysm by flow reversal. Amin-Hanjani S, et al. **Acta Neurochir (Wien)** 1997;139(1):44-51 (38 ref.)

Posterior communicating artery section during surgery for basilar tip aneurysm. Inao S, et al. **Acta Neurochir (Wien)** 1996;138(7):853-61

Deep hypothermia cardiopulmonary bypass and direct surgery of two large aneurysms at the vertebro-basilar junction. Kato Y, et al. **Acta Neurochir (Wien)** 1996; 138(9):1057-66

Surgical approaches for vertebro-basilar trunk aneurysms located in the midline. Kawase T, et al. **Acta Neurochir (Wien)** 1996;138(4):402-10

Surgical approaches to aneurysms of the upper basilar artery. MacDonald JD, et al. **Clin Neurosurg** 1996;43:127-36 (14 ref.)

Transpetrosal approach and sinus division [letter; comment] Malis LI. **J Neurosurg** 1997 Jun;86(6):1072-3. Comment on: J Neurosurg 1996 Sep;85(3):373-9.

Mobilization of the internal carotid artery for basilar artery aneurysm surgery. Technical note. Matsuyama T, et al. **J Neurosurg** 1997 Feb;86(2):294-6

Endovascular treatment of acutely ruptured and unruptured aneurysms of the basilar bifurcation. Raymond J, et al. **J Neurosurg** 1997 Feb;86(2):211-9

Anterior petrosectomy approach to infraclinoidal basilar artery aneurysms: the emerging role of the neuro-otologist in multidisciplinary management of basilar artery aneurysms. Friedman RA, et al. **Laryngoscope** 1997 Jul; 107(7):977-83

Distal basilar perforator artery aneurysm: case report. Ghogawala Z, et al. **Neurosurgery** 1996 Aug;39(2):393-6

Microvascular surgical anatomy of the vertebrobasilar junction. Grand W, et al. **Neurosurgery** 1997 Jun; 40(6):1219-23; discussion 1223-5

Transfacial transclival approach for midline posterior circulation aneurysms. Ogilvy CS, et al. **Neurosurgery** 1996 Oct;39(4):736-41; discussion 742 (31 ref.)

A ruptured aneurysm at the distal end of the basilar artery fenestration associated with multiple fenestrations of the vertebrobasilar system: case report. Fujimura M, et al. **Surg Neurol** 1997 May;47(5):469-72 (22 ref.)

The effect of orbitozygomatic access for ruptured basilar and related aneurysms on management outcome. Neil-Dwyer G, et al. **Surg Neurol** 1997 Apr;47(4):354-8; discussion 358-9

[Saccular aneurysm associated with fenestration of the distal segment of basilar artery] Imaizumi T, et al. **No Shinkei Geka** 1996 Jul;24(7):639-42 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Vascular reactivity in middle cerebral artery and basilar artery by transcranial Doppler in normals subjects during

BASILAR ARTERY

hypoxia. Garbin L, et al. **Ital J Neurol Sci** 1997 Jun; 18(3):135–7
Harmonic imaging of the vertebrobasilar system. Seidel G, et al. **Stroke** 1997 Aug;28(8):1610–3

ULTRASTRUCTURE

Immunoreactivity for nitric oxide synthase and endothelin in the coronary and basilar arteries of renal hypertensive rats. Shochina M, et al. **Cell Tissue Res** 1997 Jun; 288(3):509–16

BASILAR ARTERY INSUFFICIENCY see **VERTEBROBASILAR INSUFFICIENCY**

BASILAR BONE see **OCCIPITAL BONE**

BASILAR IMPRESSION see **PLATYBASIA**

BASILAR MEMBRANE

ANATOMY & HISTOLOGY

Anatomical correlates of the passive properties underlying the developmental shift in the frequency map of the mammalian cochlea. Schweitzer L, et al. **Hear Res** 1996 Aug;97(1–2):84–94

CYTOLOGY

The three-dimensional fibrillar arrangement of the basilar membrane in the mouse cochlea. Mikuni H, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):495–8

DRUG EFFECTS

Gentamicin distribution in the basilar papilla: possible association with regenerated hair cell orientation. Komeda M, et al. **Hear Res** 1996 Dec 1;102(1–2):81–9
Vestibular dark cells contain the Na+/H+ exchanger NHE-1 in the basolateral membrane. Wangemann P, et al. **Hear Res** 1996 May;94(1–2):94–106

INNERVATION

Neuroanatomical and histochemical evidence for the presence of common lateral line and inner ear efferents and of efferents to the basilar papilla in a frog, Xenopus laevis. Hellmann B, et al. **Brain Behav Evol** 1996; 47(4):185–94

METABOLISM

The incorporation and turnover of radiolabelled amino acids in developing stereocilia of the chick cochlea. Pickles JO, et al. **Hear Res** 1996 Nov 1;101(1–2):45–54

PATHOLOGY

Re-innervation patterns of chick auditory sensory epithelium after acoustic overstimulation. Wang Y, et al. **Hear Res** 1996 Aug;97(1–2):11–8
Anatomical basis of a congenital hearing impairment: basilar papilla dysplasia in the Belgian Waterslager canary. Weisleder P, et al. **J Comp Neurol** 1996 May 27; 369(2):292–301

PHYSIOLOGY

Impediment of basilar membrane motion reduces overload protection but not threshold sensitivity: evidence from clinical and experimental hydrops. Braun M. **Hear Res** 1996 Aug;97(1–2):1–10 (46 ref.)
Identification of genes expressed after noise exposure in the chick basilar papilla. Gong TW, et al. **Hear Res** 1996 Jul; 96(1–2):20–32
Spontaneous otoacoustic emissions in seven frog species. van Dijk P, et al. **Hear Res** 1996 Nov 1;101(1–2):102–12
Effects of phase and level on vowel identification: data and predictions based on a nonlinear basilar-membrane model. Alcántara JI, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2382–92
The mechanical waveform of the basilar membrane. I. Frequency modulations ("glides") in impulse responses and cross-correlation functions. de Boer E, et al. **J Acoust Soc Am** 1997 Jun;101(6):3583–92
Two-tone suppression of basilar membrane vibrations in the base of the guinea pig cochlea using "low-side" suppressors. Geisler CD, et al. **J Acoust Soc Am** 1997 Jul;102(1):430–40
Steady-state sinusoidal velocity responses of the basilar membrane in guinea pig. Nuttall AL, et al. **J Acoust Soc Am** 1996 Mar;99(3):1556–65
Basilar-membrane responses to tones at the base of the chinchilla cochlea. Ruggero MA, et al. **J Acoust Soc Am** 1997 Apr;101(4):2151–63
Two-tone distortion on the basilar membrane of the chinchilla cochlea. Robles L, et al. **J Neurophysiol** 1997 May;77(5):2385–99
The location of the cochlear amplifier: spatial representation of a single tone on the guinea pig basilar membrane. Russell IJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2660–4
[Direct observation of the vibration and the traveling wave on the basilar membrane of the guinea pig] Takahashi S, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Nov; 99(11):1684–93 (Eng. Abstr.) **(Jpn)**
[A hydrodynamic model of a cochlea with a discrete basilar membrane] Popov IuV. **Fiziol Zh** 1997;43(3–4):40–7 (Eng. Abstr.) **(Ukr)**

PHYSIOPATHOLOGY

A behavioral measure of basilar-membrane nonlinearity in listeners with normal and impaired hearing. Oxenham AJ, et al. **J Acoust Soc Am** 1997 Jun;101(6):3666–75
Short-term temporal integration: evidence for the influence of peripheral compression. Oxenham AJ, et al. **J Acoust Soc Am** 1997 Jun;101(6):3676–87

ULTRASTRUCTURE

Development of activity patterns in auditory nerve fibres of pigeons. Richter CP, et al. **Hear Res** 1996 May; 95(1–2):77–86
Presynaptic terminals in hyaline cells of normal and overstimulated chick inner ears. Frisancho JC, et al. **J Neurocytol** 1997 Mar;26(3):121–31

BASKETBALL

Searching for the Magic Johnson effect: AIDS, adolescents, and celebrity disclosure. Brown BR Jr, et al. **Adolescence** 1996 Summer;31(122):253–64
Shoulder rotator torque and wheelchair dependence differences of National Wheelchair Basketball Association players. Nyland J, et al. **Arch Phys Med Rehabil** 1997 Apr; 78(4):358–63
Technical note: anthropometric normative data for female international basketball players. Ackland TR, et al. **Aust J Sci Med Sport** 1997 Mar;29(1):22–4
Pericarditis in a collegiate basketball player. Stiene HA, et al. **Clin J Sport Med** 1996 Oct;6(4):251–3; discussion 253–4
Risk of "little league elbow" can be reduced, say trainers [news] **J Okla State Med Assoc** 1996 Jan;89(1):28–9
Stress and performance: an application of Gray's three-factor arousal theory to basketball free-throw shooting. Whitehead R, et al. **J Sports Sci** 1996 Oct;14(5):393–401
The effects of basketball training on the maladaptive behaviors of trainable mentally retarded children. Gençöz F. **Res Dev Disabil** 1997 Jan–Feb;18(1):1–10
Nicotine levels in indoor athletic centres. Michael CM, et al. **Sci Total Environ** 1996 Dec 2;192(2):213–6

EDUCATION

Goal setting and feedback for the development of instructional strategies. Tzetzis G, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1411–27

INJURIES

Retrosternal dislocation of the clavicle with tracheal compression: appearance on three-dimensional CT [letter] Propeck T, et al. **AJR Am J Roentgenol** 1996 Oct; 167(4):1067–8
Incidence of injury in Texas girls' high school basketball. Gomez E, et al. **Am J Sports Med** 1996 Sep-Oct; 24(5):684–7
Intraarticular migration of a femoral interference fit screw. A complication of anterior cruciate ligament reconstruction. Sidhu DS, et al. **Am J Sports Med** 1997 Mar-Apr;25(2):268–71
Symptomatic cyamella. Mishra AK, et al. **Arthroscopy** 1996 Jun;12(3):327–9
A descriptive epidemiology of netball injuries during competition: a five year study. Hopper D, et al. **Br J Sports Med** 1995 Dec;29(4):223–8
Ring avulsion injuries and the basketball player. Pynn BR, et al. **Br J Sports Med** 1997 Mar;31(1):72–4
Resident's corner. Answer to case of the month #42. Lateral tibial rim (Segond) fracture. Garant M, et al. **Can Assoc Radiol J** 1996 Dec;47(6):460–2
Electrodiagnostic study of carpal tunnel syndrome in wheelchair basketball players. Jackson DL, et al. **Clin J Sport Med** 1996 Jan;6(1):27–31 (21 ref.)
Patellar tendon ultrasonography and jumper's knee in female basketball players: a longitudinal study. Khan KM, et al. **Clin J Sport Med** 1997 Jul;7(3):199–206
Prediction of injury in female netball players. Macera C. **Clin J Sport Med** 1996 Jan;6(1):67
Ankle trauma significantly impairs posture control—a study in basketball players and controls. Perrin PP, et al. **Int J Sports Med** 1997 Jul;18(5):387–92
Tooth avulsions resulting from basketball net entanglement. Kumamoto DP, et al. **J Am Dent Assoc** 1997 Sep; 128(9):1273–5
Acute exertional compartment syndrome of the medial foot. Blacklidge DK, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):19–22
Compression of the lateral antebrachial cutaneous nerve by the biceps tendon. Gillingham BL, et al. **J Shoulder Elbow Surg** 1996 Jul–Aug;5(4):330–2 (10 ref.)
Swollen, painful scrotum after basketball injury. Swischuk LE. **Pediatr Emerg Care** 1997 Jun;13(3):227–8

PHYSIOLOGY

Somatotype in high performance female netball players may influence player position and the incidence of lower limb and back injuries. Hopper DM. **Br J Sports Med** 1997 Sep; 31(3):197–9
Ankle trauma significantly impairs posture control—a study in basketball players and controls. Perrin PP, et al. **Int J Sports Med** 1997 Jul;18(5):387–92
Peak torque of quadriceps and hamstring muscles in basketball and soccer players of different divisions. Zakas A, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):199–205
Effects of the type of recovery training on the concentric strength of the knee extensors. Amiridis IG, et al. **J Sports Sci** 1997 Apr;15(2):175–80
The relationship between basketball shooting kinematics, distance and playing position. Miller S, et al. **J Sports Sci** 1996 Jun;14(3):243–53
[The intake of proteins and essential amino acids in top-competing women athletes] Nuviala Mateo RJ, et al. **Nutr Hosp** 1997 Mar-Apr;12(2):85–91 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Control of visual attention during the basketball free throw. Vickers JN. **Am J Sports Med** 1996;24(6 Suppl):S93–7
Coping style and situational appraisals as predictors of coping strategies following stressful events in sport as a function of gender and skill level. Anshel MH, et al. **Br J Psychol** 1997 May;88 (Pt 2):263–76
Recognition of adjustment disorder in college athletes: a case study. Shell D, et al. **Clin J Sport Med** 1996 Jan;6(1):60–2
Visual control when aiming at a far target. Vickers JN. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):342–54
Personal and situational factors that predict coping strategies for acute stress among basketball referees. Kaissidis-Rodafinos A, et al. **J Sports Sci** 1997 Aug; 15(4):427–36
Issues in development of a protocol to evaluate children's reasoning about ability and effort in sport. Whitehead J, et al. **Percept Mot Skills** 1996 Oct;83(2):355–64
Crisis-related observations in competition: a case study in basketball. Bar-Eli M, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):313–21

BASOPHIL DEGRANULATION TEST

[Mast cells as a test of body state during electromagnetic exposure of varying intensity] Iurina NA, et al. **Aviakosm Ekolog Med** 1997;31(2):43–7 (Eng. Abstr.) **(Rus)**

BASOPHILIC LEUKEMIA, ACUTE see **LEUKEMIA, BASOPHILIC, ACUTE**

BASOPHILS

A patient with basophilic-eosinophilic myeloproliferative disorder showing monosomy 7 and hyperhistaminemia. Takimoto Y, et al. **Acta Haematol** 1997;98(1):37–41
Basophil count in neonates is not suitable for atopy predictivity. Calbi M, et al. **J Investig Allergol Clin Immunol** 1996 Nov-Dec;6(6):383–7
Chronic myeloid leukemia (CML): prognostic factors and survival analysis. Braga GW, et al. **Rev Paul Med** 1996 Jan-Feb;114(1):1083–90
[General hematological tests. B. Evaluation of basophilic fractions by using Hemogard Plus] Ohtani H, et al. **Rinsho Byori** 1996 Nov;Suppl 103:129–33 **(Jpn)**

CHEMISTRY

Quantitation of 1-stearoyl-2-arachidonoyl-sn-3-glycerol in human basophils via gas chromatography-negative ion chemical ionization mass spectrometry. Hubbard WC, et al. **Anal Biochem** 1996 May 1;236(2):309–21
Serum IgE level drives basophil and mast cell IgE receptor display. MacGlashan DW Jr, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):45–7
Mast cell-lineage versus basophil lineage involvement in myeloproliferative and myelodysplastic syndromes: diagnostic role of cell-immunophenotyping. Agis H, et al. **Leuk Lymphoma** 1996 Jul;22(3–4):187–204 (104 ref.)

CYTOLOGY

Pseudobasophilia on the Technicon automated cell counters [letter; comment] Bizzaro N. **Clin Lab Haematol** 1996 Dec; 18(4):298–9. Comment on: Clin Lab Haematol 1996 Mar;18(1):35–8.
Basophil counts on the technicon H*1 automated counter [see comments] Davies S, et al. **Clin Lab Haematol** 1996 Mar;18(1):35–8. Comment in: Clin Lab Haematol 1996 Dec;18(4):298–9.
Basopenia as an indicator of ovulation (a short term clinical study). Soni R, et al. **Indian J Physiol Pharmacol** 1996 Oct; 40(4):385–8
A three-step procedure for the purification of human basophils from buffy coat blood. Gibbs BF, et al. **Inflamm Res** 1997 Apr;46(4):137–42
Chloroquine induces basophilic differentiation of HL-60 cells. Sasaki R, et al. **Leukemia** 1997 Apr;11 Suppl 3:478–9

DRUG EFFECTS

IgE-mediated basophil releasability is influenced by intrinsic factors and by IgE on the cell surface. Mita H, et al. **Allergy** 1995 Dec;50(12):952–8
Eotaxin is a potent chemotaxin for human basophils. Yamada H, et al. **Biochem Biophys Res Commun** 1997 Feb 13;

231(2):365–8
Heterogeneous effects of protamine on human mast cells and basophils. Patella V, et al. **Br J Anaesth** 1997 Jun; 78(6):724–30
Regulation of human basophil function by phosphatase inhibitors. Peirce MJ, et al. **Br J Pharmacol** 1996 Sep; 119(2):446–53
Effects of phosphodiesterase inhibitors on human lung mast cell and basophil function. Weston MC, et al. **Br J Pharmacol** 1997 May;121(2):287–95
Loratadine and desethoxylcarbonyl–loratadine inhibit the immunological release of mediators from human Fc epsilon RI+ cells. Genovese A, et al. **Clin Exp Allergy** 1997 May; 27(5):559–67
Influence of bee venom immunotherapy on degranulation and leukotriene generation in human blood basophils [see comments] Jutel M, et al. **Clin Exp Allergy** 1996 Oct; 26(10):1112–8. Comment in: Clin Exp Allergy 1996 Oct;26(10):1101–4.
The in vitro and in vivo effect of corticosteroids on basophil releasability in patients with mild and severe bronchial asthma. Kivity S, et al. **Clin Exp Allergy** 1997 Aug; 27(8):909–14
Src family–selective tyrosine kinase inhibitor, PP1, inhibits both Fc epsilonRI– and Thy–1–mediated activation of rat basophilic leukemia cells. Amoui M, et al. **Eur J Immunol** 1997 Aug;27(8):1881–6
Defective inhibition of sodium on basophil histamine release in patients with allergic rhinitis and bronchial asthma. Tedeschi A, et al. **Eur Respir J** 1996 Oct;9(10):2070–6
Massive infiltration of basophilic cells in inflamed tissue after injection of RANTES. Conti P, et al. **Immunol Lett** 1997 Jul;58(2):101–6
A comparison of the inhibitory effect of cromoline and nedocromil Na on histamine release from airway metachromatic cells and from peripheral basophils. Kivity S, et al. **Immunol Lett** 1996 Nov;53(2–3):147–51
The effect of recombinant stem cell factor on human skin and lung mast cells and basophil leukocytes. Frenz AM, et al. **Inflamm Res** 1997 Feb;46(2):35–9
Inhibition of leukotriene formation and IL–8 release by the paf–receptor antagonist SM–12502. Hilger RA, et al. **Inflammation** 1996 Feb;20(1):57–70
Inhibition of allergen–induced histamine release from human basophils by cyclosporine A and FK–506. Sperr WR, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):68–73
Contrast media are incomplete secretagogues acting on human basophils and mast cells isolated from heart and lung, but not skin tissue. Genovese A, et al. **Int J Clin Lab Res** 1996;26(3):192–8
Effect of nedocromil sodium and cromoline sodium on atopic basophil function. Kivity S, et al. **Int J Immunopharmacol** 1996 Jan;18(1):75–8
A simple method to evaluate basophil tryptase after allergen challenge in vitro. Monasterolo G, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):575–6
Histamine–releasing activity in supernatants of mononuclear cells: contribution of monocyte chemotactic protein–1 activity compared with IgE–dependent activity. Pasmans SG, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):962–8
A novel acidic allergen, Hev b 5, in latex. Purification, cloning and characterization. Akasawa A, et al. **J Biol Chem** 1996 Oct 11;271(41):25389–93
Eotaxin–2, a novel CC chemokine that is selective for the chemokine receptor CCR3, and acts like eotaxin on human eosinophil and basophil leukocytes. Forssmann U, et al. **J Exp Med** 1997 Jun 16;185(12):2171–6
Effects of malathion metabolites on degranulation of and mediator release by human and rat basophilic cells. Xiong S, et al. **J Toxicol Environ Health** 1997 Jun 6;51(2):159–75
Heterogeneity of human skin mast cells and human basophils. I. Pharmacological experiments with activators and inhibitors of protein kinase C. Amon U, et al. **Skin Pharmacol** 1996;9(3):211–20

ENZYMOLOGY

A simple method to evaluate basophil tryptase after allergen challenge in vitro. Monasterolo G, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):575–6

IMMUNOLOGY

The role of basophils and mast cells in acute and late reactions in the skin. Charlesworth EN. **Allergy** 1997;52(34 Suppl):31–43 (73 ref.)
The differentiation and maturation of inflammatory cells involved in the allergic response: mast cells and basophils. Enerbäck L. **Allergy** 1997 Jan;52(1):4–10 (71 ref.)
Ex vivo pharmacologic modulation of basophil histamine release in asthmatic patients. Lebel B, et al. **Allergy** 1996 Jun;51(6):394–400
Impact of Rantes and MCP–1 chemokines on in vivo basophilic cell recruitment in rat skin injection model and their role in modifying the protein and mRNA levels for histidine decarboxylase. Conti P, et al. **Blood** 1997 Jun 1; 89(11):4120–7
Functions of IL–4 and control of its expression. Brown MA, et al. **Crit Rev Immunol** 1997;17(1):1–32 (257 ref.)
Regulation of the function of eosinophils and basophils. Hirai K, et al. **Crit Rev Immunol** 1997;17(3–4):325–52 (261 ref.)
Src family–selective tyrosine kinase inhibitor, PP1, inhibits both Fc epsilonRI– and Thy–1–mediated activation of rat basophilic leukemia cells. Amoui M, et al. **Eur J Immunol** 1997 Aug;27(8):1881–6
Purified human peripheral blood basophils release interleukin–13 and preformed interleukin–4 following immunological activation. Gibbs BF, et al. **Eur J Immunol** 1996 Oct;26(10):2493–8
The role of basophils in allergic disease. Knol EF, et al. **Eur Respir J Suppl** 1996 Aug;22:126s–131s (68 ref.)
Application of flow cytometry to the analysis of the immunosuppressive effect of histamine dilutions on human basophil activation: effect of cimetidine. Sainte–Laudy J, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S27–8
Relationship between basophil chemotaxis and histamine releasability to immunological stimulation. Vollrath IB, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S11–2
Cytokine priming of human basophils: description of allergen 'nonreleasers'. Black KM, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):142–51
Vesicular transport of Charcot–Leyden crystal protein in f–Met peptide–stimulated human basophils. Dvorak AM, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):465–77
Peripheral blood T lymphocytes and basophils, freshly isolated from house–dust–mite–sensitive patients, produce interleukin–4 in response to allergen–specific stimulation. Ochi H, et al. **Int Arch Allergy Immunol** 1996 Nov; 111(3):253–61
Inhibition of allergen–induced histamine release from human basophils by cyclosporine A and FK–506. Sperr WR, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):68–73
IL–4 production by allergen–stimulated primary cultures: identification of basophils as the major IL–4–producing cell type. Kasaian MT, et al. **Int Immunol** 1996 Aug; 8(8):1287–97
New concepts: the basophil. Schroeder JT, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):429–33 (18 ref.)
Down–regulation of Fc(epsilon)RI expression on human basophils during in vivo treatment of atopic patients with anti–IgE antibody. MacGlashan DW Jr, et al. **J Immunol** 1997 Feb 1;158(3):1438–45
Effect of anti–IgE antibodies on Fc epsilonRI–bound IgE. Rudolf MP, et al. **J Immunol** 1996 Dec 15;157(12):5646–52
Regulation of IgE–dependent IL–4 generation by human basophils treated with glucocorticoids. Schroeder JT, et al. **J Immunol** 1997 Jun 1;158(11):5448–54
Eotaxin triggers eosinophil–selective chemotaxis and calcium flux via a distinct receptor and induces pulmonary eosinophilia in the presence of interleukin 5 in mice. Rothenberg ME, et al. **Mol Med** 1996 May;2(3):334–48
Histamine releasing cells of the newborn. Mast cells from the umbilical cord matrix and basophils from cord blood. Damsgaard TE, et al. **Pediatr Allergy Immunol** 1996 May; 7(2):83–90
Use of a new glass microfibre histamine release method to study the modulation of the host response in human schistosomiasis mansoni. Individuals with different degrees of exposure to the disease show differing antibody biological function. Satti MZ, et al. **Trop Med Int Health** 1996 Oct;1(5):655–66
Detection of homocytotropic antibody in lambs infested with the louse, Bovicola ovis, using a basophil histamine–release assay. Pfeffer A, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):315–25
[Preliminary study of the basophil activation test for drug allergy using anti–membrane antibodies and flow cytometry] Sabbah A, et al. **Allerg Immunol (Paris)** 1995 Oct;27(8):274–6 (Eng. Abstr.) **(Fre)**
[Contribution of flow cytometry to allergologic diagnosis] Sabbah A, et al. **Allerg Immunol (Paris)** 1997 Jan; 29(1):15–21 (Eng. Abstr.) **(Fre)**
[Assessment by flow cytometric method of IgE–binding state of basophils in allergic disorders] Toma T, et al. **Arerugi** 1996 Jul;45(7):627–36 (Eng. Abstr.) **(Jpn)**

METABOLISM

Effect of lidocaine on histamine release and Ca2+ mobilization from mast cells and basophils. Yanagi H, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1138–44
Enhancement of basophil histamine release by interleukin–3: reduced effect in atopic subjects. Miadonna A, et al. **Allergy** 1996 Aug;51(8):525–31
Human blood basophils produce interleukin–13 in response to IgE–receptor–dependent and –independent activation. Ochensberger B, et al. **Blood** 1996 Oct 15;88(8):3028–37
Localization of Charcot–Leyden crystal protein in individual morphological phenotypes of human basophils stimulated by f–Met peptide. Dvorak AM, et al. **Clin Exp Allergy** 1997 Apr;27(4):452–74 (52 ref.)
Loratadine and desethoxylcarbonyl–loratadine inhibit the immunological release of mediators from human Fc epsilon RI+ cells. Genovese A, et al. **Clin Exp Allergy** 1997 May; 27(5):559–67
Influence of bee venom immunotherapy on degranulation and leukotriene generation in human blood basophils [see comments] Jutel M, et al. **Clin Exp Allergy** 1996 Oct; 26(10):1112–8. Comment in: Clin Exp Allergy 1996 Oct;26(10):1101–4.
The in vitro and in vivo effect of corticosteroids on basophil releasability in patients with mild and severe bronchial asthma. Kivity S, et al. **Clin Exp Allergy** 1997 Aug; 27(8):909–14
Comparison of basophil histamine release, eosinophil cationic protein and non–specific airway responsiveness between mite–sensitive asthmatic and non–asthmatic children and non–allergic controls. Takeda K, et al. **Clin Exp Allergy** 1996 Aug;26(8):918–25
Induction of human IgE synthesis in B cells by a basophilic cell line, KU812. Yanagihara Y, et al. **Clin Exp Immunol** 1997 May;108(2):295–301
Human basophil recovery from secretion. A review emphasizing the distribution of Charcot–Leyden crystal protein in cells stained with the postfixation electron–dense tracer, cationized ferritin. Dvorak AM. **Histol Histopathol** 1996 Jul;11(3):711–28 (42 ref.)
Effects of three different Ca(2+)–ATPase inhibitors on Ca2+ response and leukotriene release in RBL–2H3 cells. Akasaka R, et al. **Inflamm Res** 1996 Dec;45(12):583–9
Vesicular transport of Charcot–Leyden crystal protein in f–Met peptide–stimulated human basophils. Dvorak AM, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):465–77
Counter–receptors on human basophils for endothelial cell adhesion molecules. Bochner BS, et al. **J Immunol** 1996 Jul 15;157(2):844–50
IgE regulates mouse basophil Fc epsilon RI expression in vivo. Lantz CS, et al. **J Immunol** 1997 Mar 15; 158(6):2517–21
Recombinant histamine–releasing factor enhances IgE–dependent IL–4 and IL–13 secretion by human basophils. Schroeder JT, et al. **J Immunol** 1997 Jul 1; 159(1):447–52
Effect of an ectokinase inhibitor, K252b, on degranulation and Ca2+ signals of RBL–2H3 cells and human basophils. Teshima R, et al. **J Immunol** 1997 Jul 15;159(2):964–9
Preliminary characterization of diacylglycerol generation in human basophils: temporal relationship to histamine release and resolution of degranulation. Oriente A, et al. **J Leukoc Biol** 1997 May;61(5):637–42
Histamine excess symptoms in basophilic crisis of chronic myelogenous leukemia. Ishii N, et al. **J Med** 1995; 26(5–6):235–40
Use of a new glass microfibre histamine release method to study the modulation of the host response in human schistosomiasis mansoni. Individuals with different degrees of exposure to the disease show differing antibody biological function. Satti MZ, et al. **Trop Med Int Health** 1996 Oct;1(5):655–66

PATHOLOGY

The differentiation and maturation of inflammatory cells involved in the allergic response: mast cells and basophils. Enerbäck L. **Allergy** 1997 Jan;52(1):4–10 (71 ref.)
Acute myeloid leukemia with t(6;9) (p23;q34): association with myelodysplasia, basophilia, and initial CD34 negative immunophenotype. Alsabeh R, et al. **Am J Clin Pathol** 1997 Apr;107(4):430–7
Eosinophils, mast cells, and basophils in induced sputum from patients with seasonal allergic rhinitis and perennial asthma: relationship to methacholine responsiveness. Foresi A, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):58–64
Development of basophils in Mongolian gerbils: formation of basophilic cell clusters in the bone marrow after Nippostrongylus brasiliensis infection. Okada M, et al. **Lab Invest** 1997 Jan;76(1):89–97
Gestational psittacosis: case report and literature review. Hyde SR, et al. **Mod Pathol** 1997 Jun;10(6):602–7 (16 ref.)
Eosinophils and basophilic cells in sputum and nasal smears taken from infants and young children during acute asthma. Nagayama Y, et al. **Pediatr Allergy Immunol** 1995 Nov; 6(4):204–8
[Case of acute myelocytic leukemia (AML) with an increase in bone marrow basophils and morphological anomalies of 3 blood cell lineages] Hatsumi N, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1768–70 **(Jpn)**

PHYSIOLOGY

Effects of basophil–priming and stimulating cytokines on histamine release from isolated human skin mast cells. Nitschke M, et al. **Arch Dermatol Res** 1996 Jul;288(8):463–8
Heterogeneity of signal transduction mechanisms in human basophils and human skin mast cells. II. Effects of 7–O–methyl–UCN–01, NPC 15437 and bryostatin 1 and 2, four protein kinase C–modulatory agents, on mediator release. Noll T, et al. **Biol Signals** 1997 Jan–Feb;6(1):1–10
Regulation of human basophil function by phosphatase inhibitors. Peirce MJ, et al. **Br J Pharmacol** 1996 Sep; 119(2):446–53
A role for the sodium, potassium adenosine triphosphatase (Na+,K+ ATPase) enzyme in degranulation of rat basophilic leukaemia cells. Gentile DA, et al. **Clin Exp Allergy** 1996 Dec;26(12):1449–60
Regulation of the function of eosinophils and basophils. Hirai K, et al. **Crit Rev Immunol** 1997;17(3–4):325–52 (261 ref.)
Direct interaction of Syk and Lyn protein tyrosine kinases in rat basophilic leukemia cells activated via type I Fc epsilon receptors. Amoui M, et al. **Eur J Immunol** 1997 Jan;27(1):321–8
The role of basophils in allergic disease. Knol EF, et al. **Eur Respir J Suppl** 1996 Aug;22:126s–131s (68 ref.)
Spontaneous histamine release from mast cells and basophils is controlled by the cellular environment. Gibbs BF, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S25–6
Relationship between basophil chemotaxis and histamine

BASOPHILS

releasability to immunological stimulation. Vollrath IB, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S11–2

Regulation of cytokine expression by human blood basophils. Dahinden CA, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):134–7

High expression of the chemokine receptor CCR3 in human blood basophils. Role in activation by eotaxin, MCP-4, and other chemokines. Uguccioni M, et al. **J Clin Invest** 1997 Sep 1;100(5):1137–43

Evaluation of automated basophil counting by using fluorescence-labelled monoclonal antibodies. Hübl W, et al. **J Clin Lab Anal** 1996;10(4):177–83

Basophil priming by neurotrophic factors. Activation through the trk receptor. Bürgi B, et al. **J Immunol** 1996 Dec 15;157(12):5582–8

Human monocyte chemoattractant protein (MCP)-4 is a novel CC chemokine with activities on monocytes, eosinophils, and basophils induced in allergic and nonallergic inflammation that signals through the CC chemokine receptors (CCR)-2 and -3. Garcia-Zepeda EA, et al. **J Immunol** 1996 Dec 15;157(12):5613–26

Preliminary characterization of diacylglycerol generation in human basophils: temporal relationship to histamine release and resolution of degranulation. Oriente A, et al. **J Leukoc Biol** 1997 May;61(5):637–42

Studies of cell adhesion and flow cytometric analyses of degranulation, surface phenotype, and viability using human eosinophils, basophils, and mast cells. Bochner BS, et al. **Methods** 1997 Sep;13(1):61–8

Effects of non-steroidal antiallergic eyedrops on the complement-mediated histamine release from human cells. Goldschmidt P, et al. **Ocul Immunol Inflamm** 1997 Mar; 5(1):11–7

SECRETION

ADP-ribosylating and glucosylating toxins as tools to study secretion in RBL cells. Prepens U, et al. **Adv Exp Med Biol** 1997;419:349–53

Vesicular transport of histamine in stimulated human basophils. Dvorak AM, et al. **Blood** 1996 Dec 1; 88(11):4090–101

Patch-clamp characterization of secretory process in human basophils. Oshiro T, et al. **Int Arch Allergy Immunol** 1997 Apr;112(4):336–40

Contrast media are incomplete secretagogues acting on human basophils and mast cells isolated from heart and lung, but not skin tissue. Genovese A, et al. **Int J Clin Lab Res** 1996;26(3):192–8

Late allergic airway response to segmental bronchopulmonary provocation in allergic subjects is related to peripheral blood basophil histamine release. Jarjour NN, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):87–93

ULTRASTRUCTURE

Ultrastructural localization of histamine in human basophils and mast cells; changes associated with anaphylactic degranulation and recovery demonstrated with a diamine oxidase-gold probe. Dvorak AM. **Allergy** 1997;52(34 Suppl):14–24 (30 ref.)

Recovery of human basophils after FMLP-stimulated secretion. Dvorak AM, et al. **Clin Exp Allergy** 1996 Mar; 26(3):281–94

Ultrastructural localization of Charcot-Leyden crystal protein in human eosinophils and basophils. Calafat J, et al. **Eur J Haematol** 1997 Jan;58(1):56–66

BASOPHILS, TISSUE see **MAST CELLS**

BASS

A receptor for the oocyte maturation-inducing hormone 17alpha,20beta,21-trihydroxy-4-pregnen-3-one on ovarian membranes of striped bass. King W 5th, et al. **Biol Reprod** 1997 Jan;56(1):266–71

Identification of vitellogenin receptors in the ovary of a teleost fish, the Mediterranean sea bass (Dicentrarchus labrax). Mañanós EL, et al. **Reprod Nutr Dev** 1997; 37(1):51–61

BLOOD

Effects of temperature on hematologic and serum biochemical profiles of hybrid striped bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al. **Am J Vet Res** 1997 Feb;58(2):126–30

Effects of ammonia and nitrate concentration on hematologic and serum biochemical profiles of hybrid striped bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al. **Am J Vet Res** 1997 Feb;58(2):131–5

Changes in plasma gonadotropin II and sex steroid hormones, and sperm production of striped bass after treatment with controlled-release gonadotropin-releasing hormone agonist-delivery systems. Mylonas CC, et al. **Biol Reprod** 1997 Sep;57(3):669–75

Development of enzyme immunoassays for 3,5,3'-triiodo-L-thyronine and L-thyroxine: time-course studies on the effect of food deprivation on plasma thyroid hormones in two marine teleosts, sea bass (Dicentrarchus labrax L.) and sea bream (Sparus aurata L.). Cerdá-Reverter JM, et al. **Gen Comp Endocrinol** 1996 Sep; 103(3):290–300

GENETICS

Randomly amplified polymorphic DNA (RAPD) analysis of Atlantic Coast striped bass. Bielawski JP, et al. **Heredity** 1997 Jan;78 (Pt 1):32–40

Nutritional regulation of insulin-like growth factor-I mRNA expression in barramundi, Lates calcarifer. Matthews SJ, et al. **J Mol Endocrinol** 1997 Jun;18(3):273–6

GROWTH & DEVELOPMENT

Activity of lactate dehydrogenase but not its concentration of messenger RNA increases with body size in barred sand bass, Paralabrax nebulifer (Teleostei). Yang TH, et al. **Biol Bull** 1996 Oct;191(2):155–8

Partial substitution of di- and tripeptides for native proteins in sea bass diet improves Dicentrarchus labrax larval development. Zambonino Infante JL, et al. **J Nutr** 1997 Apr;127(4):608–14

IMMUNOLOGY

Factors influencing phagocytic response of macrophages from the sea bass (Dicentrarchus labrax L.): an ultrastructural and quantitative study. Esteban MA, et al. **Anat Rec** 1997 Aug;248(4):533–41

Immunocytochemical detection and cytomorphology of lymphocyte subpopulations in a teleost fish Dicentrarchus labrax. Romano N, et al. **Cell Tissue Res** 1997 Jul; 289(1):163–71

The effect of temperature and water quality on antibody response to Aeromonas salmonicida in sunshine bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1–2):157–66

METABOLISM

Accumulation of trimethoprim, sulfamethoxazole, and N-acetylsulfamethoxazole in fish and shrimp fed medicated Artemia franciscana. Chair M, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1649–52

Sodium dependency of the inward potassium rectifier in horizontal cells isolated from the white bass retina. Pfeiffer-Linn CL, et al. **Brain Res** 1995 Dec 1; 701(1–2):81–8

Absorption of dietary dieldrin by striped bass. Santerre CR, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):334–40

Multiple kinesin family members expressed in teleost retina and RPE include a novel C-terminal kinesin. Bost-Usinger L, et al. **Exp Eye Res** 1997 May;64(5):781–94

Immunohistochemical and ultrastructural evidence of adrenal chromaffin cell subtypes in sea bass Dicentrarchus labrax (L.). Abelli L, et al. **Gen Comp Endocrinol** 1996 Apr; 102(1):113–22

Ontogeny of immunoreactive steroidogenic proteins (adrenodoxin and cytochrome p-450(21)) in the interrenals of the teleost Lates calcarifer. Sampath-Kumar R, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):147–55

Occurrence of somatostatin and insulin immunoreactivities in the stomach of sea bass (Dicentrarchus labrax L.): light and electron microscopic studies. Visus IG, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):16–27

Fish gill respiratory cells in culture: a new model for Cl(-)-secreting epithelia. Avella M, et al. **J Membr Biol** 1997 Mar 1;156(1):87–97

Preliminary assessment of PCB risks to human and ecological health in the lower Passaic River. Finley BL, et al. **J Toxicol Environ Health** 1997 Oct 10;52(2):95–118

Unusual responses to light and darkness of ocular melatonin in European sea bass. Iigo M, et al. **Neuroreport** 1997 May 6;8(7):1631–5

PARASITOLOGY

Comparison of Leptorhynchoides thecatus (Acanthocephala) recruitment into green sunfish and largemouth bass populations. Olson PD, et al. **J Parasitol** 1996 Oct; 82(5):702–6

PHYSIOLOGY

Formation and dissolution of spinules and changes in nematosome size require optic nerve integrity in black bass (Micropterus salmoides) retina. De Juan J, et al. **Brain Res** 1996 Jan 29;707(2):213–20

Sphingomyelin metabolism is linked to salt transport in the gills of euryhaline fish. el Babili M, et al. **Lipids** 1996 Apr; 31(4):385–92

The possible role of intracellular lipid in determining oxygen delivery to fish skeletal muscle. Hoofd L, et al. **Respir Physiol** 1997 Feb;107(2):191–202

Gap junction channel gating at bass retinal electrical synapses. Lu C, et al. **Vis Neurosci** 1996 Nov-Dec; 13(6):1049–57

Modulation of endogenous dopamine release in the fish retina by light and prolonged darkness. Weiler R, et al. **Vis Neurosci** 1997 Mar-Apr;14(2):351–6

VIROLOGY

Cloning, expression and purification of the coat protein of encephalitis virus (DIEV) infecting Dicentrarchus labrax. Sideris DC. **Biochem Mol Biol Int** 1997 Jun;42(2):409–17

Cell culture isolation of piscine neuropathy nodavirus from juvenile sea bass, Dicentrarchus labrax. Frerichs GN, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2067–71

BASSEN-KORNZWEIG SYNDROME see **ABETALIPOPROTEINEMIA**

BATHING BEACHES

A survey of sunbathing practices on three Connecticut State beaches. Zitser BS, et al. **Conn Med** 1996 Oct;60(10):591–4

BATHS

Foil bath PUVA in the treatment of prurigo simplex subacuta. Streit V, et al. **Acta Derm Venereol** 1996 Jul; 76(4):319–20

Warm tub bath during labor. A study of 1385 women with prelabor rupture of the membranes after 34 weeks of gestation. Eriksson M, et al. **Acta Obstet Gynecol Scand** 1996 Aug;75(7):642–4

Evaluation of sponging and antipyretic medication to reduce body temperature in febrile children. Aksoylar S, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):215–7

Skin care rituals that do more harm than good. Skewes SM. **Am J Nurs** 1996 Oct;96(10):33–5

Effect of carbon dioxide-enriched water and fresh water on the cutaneous microcirculation and oxygen tension in the skin of the foot. Hartmann BR, et al. **Angiology** 1997 Apr; 48(4):337–43

Unconstrained heart-rate monitoring during bathing. Tamura T, et al. **Biomed Instrum Technol** 1997 Jul-Aug;31(4):391–6

Time course of 8-MOP-induced skin photosensitization in PUVA bath photochemotherapy [letter] Kerscher M, et al. **Br J Dermatol** 1997 Mar;136(3):473–4

Mycobacterium avium complex infection in an immunocompetent young adult related to hot tub exposure. Kahana LM, et al. **Chest** 1997 Jan;111(1):242–5

Effects of immersion in tepid bath water on recovery from fatigue after submaximal exercise in man. Nakamura K, et al. **Ergonomics** 1996 Feb;39(2):257–66

Effect of bathing on temperature of normal neonates [letter] Raman V, et al. **Indian Pediatr** 1996 Feb;33(2):143

Influences of bathing and hot weather on the pharmacokinetics of a new transdermal clonidine, M-5041T. Fujimura A, et al. **J Clin Pharmacol** 1996 Oct; 36(10):892–6

A newborn's first bath: when? Penny-MacGillivray T. **J Obstet Gynecol Neonatal Nurs** 1996 Jul-Aug;25(6):481–7

Inhibition of proliferation of psoriatic and healthy fibroblasts in cell culture by selected Dead-sea salts. Levi-Schaffer F, et al. **Pharmacology** 1996 May;52(5):321–8

Phototesting in bath-PUVA: marked reduction of 8-methoxypsoralen (8-MOP) activity within one hour after an 8-MOP bath. Schempp CM, et al. **Photodermatol Photoimmunol Photomed** 1996 Jun; 12(3):100–2

Hyperthermic seizures: an animal model for hot-water epilepsy. Ullal GR, et al. **Seizure** 1996 Sep;5(3):221–8

Wound care after posterior spinal surgery. Does early bathing affect the rate of wound complications? Carragee EJ, et al. **Spine** 1996 Sep 15;21(18):2160–2

[Psoriasis treatment at the Dead Sea] Knudsen EA, et al. **Ugeskr Laeger** 1996 Nov 4;158(45):6440–3 (Eng. Abstr.) **(Dan)**

[Interpretation of the cardiovascular effects of a 38-degrees C. bath] Cession-Fossion A, et al. **J Belge Med Phys Rehabil** 1980;3(1):53–61 **(Fre)**

[Does a shower put postoperative wound healing at risk?] Riederer SR, et al. **Chirurg** 1997 Jul;68(7):715–7; discussion 717 (Eng. Abstr.) **(Ger)**

[The value of oil baths for adjuvant basic therapy of inflammatory dermatoses with dry, barrier-disrupted skin] Melnik B, et al. **Hautarzt** 1996 Sep;47(9):665–72 (62 ref.) (Eng. Abstr.) **(Ger)**

[Bath additives in dermatologic balneotherapy. Indications and approaches in current research] Schempp CM, et al. **Hautarzt** 1996 Dec;47(12):894–900 (49 ref.) (Eng. Abstr.) **(Ger)**

[A case of fatal pneumonia caused by Legionella pneumophila serogroup 6 developed after drowning in a public bath] Tokuda H, et al. **Kansenshogaku Zasshi** 1997 Feb; 71(2):169–74 (Eng. Abstr.) **(Jpn)**

[Geriatric care in Japan--importance of having access to a bath (letter)] Shammas E. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):3028–9 **(Nor)**

ADVERSE EFFECTS

Clinical study of epilepsy with severe febrile seizures and seizures induced by hot water bath. Fukuda M, et al. **Brain Dev** 1997 Apr;19(3):212–6

Barrier recompensation mechanisms. Grunewald AM, et al. **Curr Probl Dermatol** 1996;25:206–13

Effect of bathing on temperature of normal neonates [letter] Raman V, et al. **Indian Pediatr** 1996 Apr;33(4):340

Case report: scrotal cellulitis secondary to hot tub exposure. Forrest JB, et al. **J Okla State Med Assoc** 1996 Nov; 89(11):400–1

Molecular determination of infection source of a sporadic Legionella pneumonia case associated with a hot spring bath. Miyamoto H, et al. **Microbiol Immunol** 1997; 41(3):197–202

Iatrogenic scald burn: a consequence of institutional infection control measures. Mirowski GW, et al. **Pediatrics** 1996 Nov;98(5):963–5

INSTRUMENTATION

[A self-contained unit for preparing and performing dry-air radon baths] Gusarov II, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1997 Jan-Feb;(1):33-4 **(Rus)**

METHODS

The efficacy of tepid sponge bathing to reduce fever in young children. Sharber J. **Am J Emerg Med** 1997 Mar; 15(2):188-92

Hairwashing made easy. Fillion DN.
MCN Am J Matern Child Nurs 1997 Sep-Oct;22(5):277

A new water bath for ultrasonic biomicroscopy. Kapetansky FM. **Ophthalmic Surg Lasers** 1997 Jul;28(7):605-6

[The use of sodium chloride baths in patients with chronic bronchitis] Anisimkina AN, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 May-Jun; (3):14-8 (Eng. Abstr.) **(Rus)**

[The effect of balneotherapy on the autonomic indices in children with neurocirculatory dystonia] Babina LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May-Jun; (3):24-6 (Eng. Abstr.) **(Rus)**

[The secondary prevention of hypertension with carbonated mineral waters] Iubitskaia NS, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Nov-Dec;(6):5-7 (Eng. Abstr.) **(Rus)**

[Dry air-gas baths as a method of pathogenetic therapy in hypertension at the sanatorium stage] Kliachkin LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov-Dec; (6):3-5 **(Rus)**

[Bromide-iodide baths and magnetic-laser radiation in the correction of disorders of hemodynamics and of the adaptation processes in metallurgical workers] Konevskikh LA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul-Aug;(4):20-2 (Eng. Abstr.) **(Rus)**

[The use of sinusoidal modulated currents and iodobromine baths in treating patients with the "stone pathway" of the upper urinary tract] Nesterov NI, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 May-Jun; (3):28-30 (Eng. Abstr.) **(Rus)**

[The use of interference currents and iodobromine baths in the therapy of patients with chronic nonobstructive pyelonephritis] Nesterov NI, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Sep-Oct; (5):19-22 (Eng. Abstr.) **(Rus)**

[The use of sodium chloride baths in children with a heart lesion subjected to long-term exposure to low radiation doses] Poberskaia VA, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1997 Jan-Feb;(1):4-7 (Eng. Abstr.) **(Rus)**

[The treatment and rehabilitation characteristics of osteoarthritis patients undergoing mineral baths, underwater horizontal traction of the legs and therapeutic gymnastics] Shavianidze GO.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Nov-Dec; (6):17-9 (Eng. Abstr.) **(Rus)**

[The clinical efficacy of hydrogen sulfide baths in ischemic heart disease in an arid zone] Zunnunov ZR.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 May-Jun; (3):45-6 **(Rus)**

NURSING

Hairwashing made easy. Fillion DN.
MCN Am J Matern Child Nurs 1997 Sep-Oct;22(5):277

STATISTICS & NUMERICAL DATA

Characterization of the emissions of trichloroethylene, chloroform, and 1,2-dibromo-3-chloropropane in a full-size, experimental shower. Giardino NJ, et al.
J Expo Anal Environ Epidemiol 1996 Oct-Dec;6(4):413-23

VETERINARY

Efficacy of a novel copper-based footbath preparation for the treatment of ovine footrot during the spread period. Reed GA, et al. **Aust Vet J** 1996 Nov;74(5):375-82

BATHS, FINNISH

Facts and fables about sauna. Kauppinen K.
Ann N Y Acad Sci 1997 Mar 15;813:654-62 (47 ref.)

Exposure to high ambient temperature increases absorption and plasma concentrations of transdermal nicotine. Vanakoski J, et al. **Clin Pharmacol Ther** 1996 Sep; 60(3):308-15

Physical effects of negative air ions in a wet sauna. Watanabe I, et al. **Int J Biometeorol** 1997 Apr;40(2):107-12

Exposure to high environmental temperature in the sauna does not change plasma indocyanine green (ICG) clearance in healthy subjects. Vanakoski J, et al.
Pharmacol Toxicol 1996 Feb;78(2):94-8

ADVERSE EFFECTS

Decreased blinking in dry saunas [letter] Tsubota K, et al. **Cornea** 1997 Mar;16(2):242-3

BATHS, SAND see **AMMOTHERAPY**

BATRACHOTOXINS

METABOLISM

Dilazep inhibits binding of batrachotoxin to sodium channels in canine sarcolemmal vesicles. Chiba K, et al.
Arch Int Pharmacodyn Ther 1995 Sep-Oct;330(2):138-50

Inhibition by propofol of [3H]-batrachotoxinin-A 20-alpha-benzoate binding to voltage-dependent sodium channels in rat cortical synaptosomes. Ratnakumari L, et al. **Br J Pharmacol** 1996 Dec;119(7):1498-504

PHARMACOLOGY

No evidence for specific opioid effects on batrachotoxin-modified sodium channels from human brain synaptosomes. Frenkel C, et al. **Neurosci Lett** 1997 Jun 20;229(1):41-4

BATROXOBIN see **REPTILASE**

BATS see **CHIROPTERA**

BATTEN-SPIELMEYER-VOGT DISEASE see **NEURONAL CEROID-LIPOFUSCINOSIS**

BATTERED CHILD SYNDROME

Recanalization of the falcine sinus after venous sinus thrombosis. Kesava PP. **AJNR Am J Neuroradiol** 1996 Oct; 17(9):1646-8

Shaken baby syndrome. Diagnosis and prevention. Swenson J, et al. **Minn Med** 1997 Jun;80(6):41-4

[The shaken baby syndrome] Urkin J, et al. **Harefuah** 1996 Nov 1;131(9):334-7 (30 ref.) **(Heb)**

COMPLICATIONS

Ocular and cerebral trauma in non-accidental injury in infancy [letter; comment] Liguori G, et al.
Br J Ophthalmol 1997 Apr;81(4):333; discussion 333-4. Comment on: Br J Ophthalmol 1996 Apr;80(4):282-7.

Ocular and cerebral trauma in non-accidental injury in infancy [letter] Talks SJ, et al. **Br J Ophthalmol** 1997 Apr; 81(4):333; discussion 333-4

Dense vitreous hemorrhages predict poor visual and neurological prognosis in infants with shaken baby syndrome. Matthews GP, et al.
J Pediatr Ophthalmol Strabismus 1996 Jul-Aug;33(4):260-5

Nonaccidental injury presenting as pneumococcal sepsis in an infant. Wilson TM, et al. **Pediatr Emerg Care** 1996 Aug; 12(4):283-4

DIAGNOSIS

Radiological case of the month. Battered child syndrome. Van Winckel M, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):621-2

Shaken baby syndrome: inflicted cerebral trauma. Committee on Child Abuse and Neglect, 1993-1994. **Del Med J** 1997 Jul;69(7):365-70 (25 ref.)

The significance of white-centered retinal hemorrhages in the shaken baby syndrome. Kapoor S, et al.
Pediatr Emerg Care 1997 Jun;13(3):183-5

Long-term outcome in infants with the shaking-impact syndrome. Duhaime AC, et al. **Pediatr Neurosurg** 1996 Jun; 24(6):292-8

The floppy infant: a new manifestation of nonaccidental injury. Thomas NH, et al. **Pediatr Neurosurg** 1995; 23(4):188-91

Ocular manifestations in shaken baby syndrome. Wong JS, et al. **Singapore Med J** 1995 Aug;36(4):391-2

[Shaken baby trauma: a case report on a problematic differential diagnosis in an infant] Rodenwaldt J, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Aug;167(2):204-6 (20 ref.) **(Ger)**

PATHOLOGY

Morphometrical analysis of retinal hemorrhages in the shaken baby syndrome [see comments] Betz P, et al.
Forensic Sci Int 1996 Mar 5;78(1):71-80. Comment in: Forensic Sci Int 1996 Oct 25;82(3):255.

Shaken babies--some have no impact injuries [see comments] Gilliland MG, et al. **J Forensic Sci** 1996 Jan;41(1):114-6. Comment in: J Forensic Sci 1996 Sep;41(5):729-30.

The significance of white-centered retinal hemorrhages in the shaken baby syndrome. Kapoor S, et al.
Pediatr Emerg Care 1997 Jun;13(3):183-5

[Ocular pathology of child abuse] Rohrbach JM, et al.
Klin Monatsbl Augenheilkd 1997 Mar;210(3):133-8 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Irritable infant and left lower extremity pain. Swischuk LE.
Pediatr Emerg Care 1997 Apr;13(2):147-8

RADIONUCLIDE IMAGING

Battered child syndrome. Uncommon pelvic fractures detected by bone scintigraphy. Tan TX, et al.
Clin Nucl Med 1997 May;22(5):321-2

SURGERY

Decompressive craniotomy for acute shaken/impact baby syndrome. Cho DY, et al. **Pediatr Neurosurg** 1995; 23(4):192-8

BATTERED WOMEN

see related
SPOUSE ABUSE

Violence against women: provider barriers to intervention in emergency departments. McGrath ME, et al.
Acad Emerg Med 1997 Apr;4(4):297-300

The diverse faces of violence: minority women and domestic abuse. Pinn VW, et al. **Acad Med** 1997 Jan;72(1 Suppl):S65-71

Intimate partner abuse: developing a framework for change in medical education. Warshaw C. **Acad Med** 1997 Jan;72(1 Suppl):S26-37

Victimization among substance-abusing women. Worse health outcomes. Liebschutz JM, et al.
Arch Intern Med 1997 May 26;157(10):1093-7

FIGO guidelines. Committee for the Study of Ethical Aspects of Human Reproduction.
Eur J Obstet Gynecol Reprod Biol 1996 Nov;69(2):145-6

Selections from current literature: clinical detection of abuse. Kelso EB, et al. **Fam Pract** 1996 Aug;13(4):408-13 (21 ref.)

Domestic violence in the emergency department: how do women prefer to disclose and discuss the issues? Hayden SR, et al. **J Emerg Med** 1997 Jul-Aug;15(4):447-51

When a history of physical abuse is license for societal abuse [editorial] Heyburn MK. **J Ky Med Assoc** 1996 Feb;94(2):71

Vaginal bleeding and abuse: assessing pregnant women in the emergency department. Greenberg EM, et al.
MCN Am J Matern Child Nurs 1997 Jul-Aug;22(4):182-6

Laminated cards for helping battered women. Von Burg MM. **MCN Am J Matern Child Nurs** 1996 May-Jun; 21(3):159-60

Delayed entry into prenatal care: effect of physical violence. Dietz PM, et al. **Obstet Gynecol** 1997 Aug;90(2):221-4

[Conjugal violence: clinical significance (letter)] Casasa Plana A. **Aten Primaria** 1997 Mar 31;19(5):276-7 **(Spa)**

CLASSIFICATION

A hospital-based domestic violence group. Norton IM, et al. **Psychiatr Serv** 1997 Sep;48(9):1186-90

PSYCHOLOGY

The Open Window Phase: helpseeking and reality behaviors by battered women. Curnow SA. **Appl Nurs Res** 1997 Aug; 10(3):128-35

Development of the Woman Abuse Screening Tool for use in family practice. Brown JB, et al. **Fam Med** 1996 Jun; 28(6):422-8

Responding to family violence. Holz E, et al.
J Med Assoc Ga 1997 Sep;86(3):221-3

Assessing the effects of violence on women in battering relationships with the Keane MMPI-PTSD Scale. Perrin S, et al. **J Trauma Stress** 1996 Oct;9(4):805-16

Interpersonal violence: expanding the search for long-term sequelae within a sample of battered women. Weaver TL, et al. **J Trauma Stress** 1996 Oct;9(4):783-803

Response to battered mothers in the pediatric emergency department: a call for an interdisciplinary approach to family violence. Wright RJ, et al. **Pediatrics** 1997 Feb; 99(2):186-92

Predicting unpredictability: a model of women's processes of predicting battering men's violence. Langford DR.
Sch Inq Nurs Pract 1996 Winter;10(4):371-85; discussion 387-90

Domestic violence and role-taking: collegial inaccuracies. Forte JA, et al. **Soc Work** 1997 Jan;42(1):116-8

Empowering battered women transnationally: the case for postmodern interventions. Mills L. **Soc Work** 1996 May; 41(3):261-8 (38 ref.)

Female gang members: a profile of aggression and victimization. Molidor CE. **Soc Work** 1996 May; 41(3):251-7

Taking exception to "Asymmetrical role-taking: comparing battered and nonbattered women" [comment] Starsoneck L, et al. **Soc Work** 1997 Jan;42(1):113-5. Comment on: Soc Work 1996 Jan;41(1):59-73.

Experiences of battered women in health care settings: a qualitative study. Gerbert B, et al. **Women Health** 1996; 24(3):1-17

STATISTICS & NUMERICAL DATA

Battered women: injury locations and types. Muelleman RL, et al. **Ann Emerg Med** 1996 Nov;28(5):486-92

Battered women: presentation at A&E departments in Singapore. Seow E, et al. **Asia Pac J Public Health** 1995; 8(2):114-7

The prevalence of physical and sexual abuse in women veterans seeking care at a Veterans Affairs Medical Center. Coyle BS, et al. **Mil Med** 1996 Oct;161(10):588-93

BATTEY BACILLUS see **MYCOBACTERIUM AVIUM COMPLEX**

BAY-K-8644

PHARMACOLOGY

BAY K 8644 and ClO4- potentiate caffeine contracture without Ca2+ release channel activation. Oba T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C41-7

Activation of protein kinase C by 1,4-dihydro-2,6-dimethyl-5-nitro-4-[2-(trifluoromethyl)-phenyl]-3-py rid ine carboxylic acid methyl ester (Bay K 8644), a calcium channel agonist, in alveolar type II cells. Sen N, et al. **Biochem Pharmacol** 1997 May 9;53(9):1307-13

Involvement of the calcium inward current in cardiac impulse propagation: induction of unidirectional conduction block by nifedipine and reversal by Bay K 8644. Rohr S, et al. **Biophys J** 1997 Feb;72(2 Pt 1):754-66

Nitric oxide, a possible mediator of 1,4-dihydropyridine-induced photorelaxation of vascular smooth muscle. Lovren F, et al. **Br J Pharmacol** 1996 Jun; 118(4):879-84

Long Ca2+ channel opening induced by large depolarization and Bay K 8644 in smooth muscle cells isolated from guinea-pig detrusor. Nakayama S, et al. **Br J Pharmacol** 1996 Oct;119(4):716-20

Effects of N- and L-type calcium channel antagonists and (+/-)-Bay K8644 on nerve-induced catecholamine secretion from bovine perfused adrenal glands. O'Farrell M, et al. **Br J Pharmacol** 1997 Jun;121(3):381-8

Investigation of the negative inotropic effects of 17 beta-oestradiol in human isolated myocardial tissues. Sitzler G, et al. **Br J Pharmacol** 1996 Sep;119(1):43-8

Modulation of myocardial economy and efficiency in mammalian failing and non-failing myocardium by calcium channel activation and beta-adrenergic stimulation. Ruf T, et al. **Cardiovasc Res** 1996 Dec;32(6):1047-55

Synergistic effects of Bay K 8644 and bradykinin on norepinephrine release in the hypothalamus of spontaneously hypertensive rats. Tsuda K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S54-7

Altered behavioral sensitivity of Ca(2+)-modulating drugs after chronic nicotine administration in mice. Damaj MI. **Eur J Pharmacol** 1997 Mar 19;322(2-3):129-35

Inhibition by bertosamil of cardiac responses to pinacidil or Bay k 8644 in isolated dog atria and ventricles. Yonezawa T, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):51-8

Suppressive effects of Bay K 8644 on toxicity of calcium channel blockers in cultured rat embryos. Ban Y, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):141-7

Frequency-dependent effects of Bay K 8644 on tetanic contractions of frog skeletal muscle. Oz M, et al. **Gen Pharmacol** 1997 Jan;28(1):99-103

Effect of the Ca(2+)-channel agonist Bay K 8644 on the contractile responses in human placental veins. Barrús MT, et al. **J Auton Pharmacol** 1996 Jun;16(3):161-7

Bay K 8644 reveals two components of L-type Ca2+ channel current in clonal rat pituitary cells. Fass DM, et al. **J Gen Physiol** 1996 Jul;108(1):1-11

L-type Ca2+ channels access multiple open states to produce two components of Bay K 8644-dependent current in GH3 cells. Fass DM, et al. **J Gen Physiol** 1996 Jul; 108(1):13-26

Effects of Bay K 8644 on L-type calcium current from newborn rat cardiomyocytes in primary culture. Gomez JP, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2217-29

The mechanisms underlying Bay K 8644-stimulated phasic myometrial contractions. Chien EK, et al. **J Soc Gynecol Investig** 1996 May-Jun;3(3):106-12

Inhibition by bosentan, an endothelin antagonist, of the hypersensitivity to Ca2+ channel activator evoked by salt-loading in basilar artery of stroke-prone spontaneously hypertensive rats. Salomone S, et al. **Life Sci** 1996; 59(16):PL247-53

Modulation of kappa-opioid receptor mediated tolerance in the guinea-pig ileum by chronic co-administration of dihydropyridines. Garaulet JV, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):72-9

Effects of nifedipine and Bay K 8644 on the R-PIA and caffeine-induced changes in the locomotor activity of rats. Eroglu L, et al. **Pharmacol Res** 1996 Feb;33(2):141-4

The calcium channel agonist BAY k 8644 reduces ethanol intake and preference in alcohol-preferring AA rats. de Beun R, et al. **Psychopharmacology (Berl)** 1996 Oct; 127(4):302-10

BAYES THEOREM

Re: "Bayesian estimation of disease prevalence and the parameters of diagnostic tests in the absence of a gold standard" [letter] Andersen S. **Am J Epidemiol** 1997 Feb 1;145(3):290-1

Bayesian evaluation of the modified zinc test and the acid phosphatase spot test for forensic semen investigation. Hooft PJ, et al. **Am J Forensic Med Pathol** 1997 Mar; 18(1):45-9

A new decision rule for parameter delta in MAP EM (OSL) reconstruction with the Gibbs prior. Ogawa K, et al. **Ann Nucl Med** 1996 Aug;10(3):299-305

The diagnostic value of imaging the patient with dizziness. A Bayesian approach. Gizzi M, et al. **Arch Neurol** 1996 Dec;53(12):1299-304

Nested reentrant and recurrent computation in early vision: a Bayesian neuromorphic model applied to hyperacuity. Russell GS. **Biol Cybern** 1997 Mar;76(3):195-206

Practical Bayesian inference using mixtures of mixtures. Cao G, et al. **Biometrics** 1996 Dec;52(4):1334-41

Large hierarchical Bayesian analysis of multivariate survival data. Gustafson P. **Biometrics** 1997 Mar;53(1):230-42

Bayesian design and analysis of two x two factorial clinical trials. Simon R, et al. **Biometrics** 1997 Jun;53(2):456-64

Bayesian hypothesis testing of four-taxon topologies using molecular sequence data. Sinsheimer JS, et al. **Biometrics** 1996 Mar;52(1):193-210

Predictive model selection for repeated measures random effects models using Bayes factors. Weiss RE, et al. **Biometrics** 1997 Jun;53(2):592-602

Partial-area method in bioequivalence assessment: naproxen. Niazi SK, et al. **Biopharm Drug Dispos** 1997 Mar; 18(2):103-16

Bayesian statistics may inform public policy better than significant odds ratios [letter] Braunholtz D, et al. **BMJ** 1997 Apr 19;314(7088):1202

Statistical basis of public policy. Epidemiology does not need Bayesian inference [letter; comment] Brennan P. **BMJ** 1997 Jan 4;314(7073):72-3. Comment on: BMJ 1996 Sep 7;313(7057):603-7.

Statistical basis of public policy. Qualitative and quantitative aspects should not be confused [letter; comment] Cox DR, et al. **BMJ** 1997 Jan 4;314(7073):73. Comment on: BMJ 1996 Jan 13;312(7023):68-9. Comment on: BMJ 1996 Sep 7;313(7057):569-70. Comment on: BMJ 1996 Sep 7;313(7057):603-7.

Statistical basis of public policy. Bayesian statistics is valuable provided it is based on data [letter; comment] Durrant NF. **BMJ** 1997 Jan 4;314(7073):74. Comment on: BMJ 1996 Sep 7;313(7057):603-7.

Statistical basis of public policy. Bayesian analysis should be used instead of league tables of performance [letter; comment] Langford IH. **BMJ** 1997 Jan 4;314(7073):73-4. Comment on: BMJ 1996 Sep 7;313(7057):603-7.

Statistical basis of public policy. Present remembrance of priors past is not the same as a true prior [letter; comment] Senn S. **BMJ** 1997 Jan 4;314(7073):73. Comment on: BMJ 1996 Jan 13;312(7023):68-9. Comment on: BMJ 1996 Sep 7;313(7057):603-7.

A Bayesian dosing method for carboplatin given by continuous infusion for 120 h. Guillet P, et al. **Cancer Chemother Pharmacol** 1997;40(2):143-9

Bayesian forecasting in paediatric populations. Fernández de Gatta MM, et al. **Clin Pharmacokinet** 1996 Nov; 31(5):325-30 (59 ref.)

Construction of a Bayesian network for mammographic diagnosis of breast cancer. Kahn CE Jr, et al. **Comput Biol Med** 1997 Jan;27(1):19-29

A Bayesian formulation of the Kalman filter applied to the estimation of individual pharmacokinetic parameters. Botsman K, et al. **Comput Biomed Res** 1997 Apr;30(2):83-94

Comments on Bayesian and frequentist analysis and interpretation of clinical trials. Fisher LD. **Control Clin Trials** 1996 Oct;17(5):423-34

Two cheers for Bayes [letter; comment] O'Rourke K. **Control Clin Trials** 1996 Aug;17(4):350-2. Comment on: Control Clin Trials 1995 Oct;16(5):313-8.

No burial for Bayes' rule [editorial; comment] Bossuyt PM. **Epidemiology** 1997 Jan;8(1):4-5. Comment on: Epidemiology 1997 Jan;8(1):12-7.

Limitations of sensitivity, specificity, likelihood ratio, and bayes' theorem in assessing diagnostic probabilities: a clinical example [see comments] Moons KG, et al. **Epidemiology** 1997 Jan;8(1):12-7 (43 ref.). Comment in: Epidemiology 1997 Jan;8(1):4-5.

Androgen-deprived prostate adenocarcinoma: evaluation of treatment-related changes versus no distinctive treatment effect with a Bayesian belief network. A methodological approach. Montironi R, et al. **Eur Urol** 1996;30(3):307-15

Bayesian statistical analyses for presence of single genes affecting meat quality traits in a crossed pig population. Janss LL, et al. **Genetics** 1997 Feb;145(2):395-408

A bayesian approach to detect quantitative trait loci using Markov chain Monte Carlo. Satagopan JM, et al. **Genetics** 1996 Oct;144(2):805-16

The use of multiple markers in a Bayesian method for mapping quantitative trait loci. Uimari P, et al. **Genetics** 1996 Aug;143(4):1831-42

Measurement of airborne 218Po--a Bayesian approach. Groer PG, et al. **Health Phys** 1996 Dec;71(6):951-5

Bayesian prediction of mean indoor radon concentrations for Minnesota counties. Price PN, et al. **Health Phys** 1996 Dec; 71(6):922-36

Legal standards and the significance of DNA evidence. Gomulkiewicz R, et al. **Hum Biol** 1997 Oct;69(5):675-88

A Bayesian approach to introducing anatomo-functional priors in the EEG/MEG inverse problem. Baillet S, et al. **IEEE Trans Biomed Eng** 1997 May;44(5):374-85

A comparison of neural network and Bayes recognition approaches in the evaluation of the brainstem trigeminal evoked potentials in multiple sclerosis. Guterman H, et al. **Int J Biomed Comput** 1996 Dec;43(3):203-13

Modelling of mortality data from a multi-centre study in Japan by means of Poisson regression with error in variables. Jordan P, et al. **Int J Epidemiol** 1997 Jun; 26(3):501-7

A higher order Bayesian neural network with spiking units. Lansner A, et al. **Int J Neural Syst** 1996 May;7(2):115-28 (54 ref.)

Multiple-trait Gibbs sampler for animal models: flexible programs for Bayesian and likelihood-based (co)variance component inference. Van Tassell CP, et al. **J Anim Sci** 1996 Nov;74(11):2586-97

Bayesian approach to two-stage phase II trial. Pepple PA, et al. **J Biopharm Stat** 1997 May;7(2):271-86

Combining single patient (N-of-1) trials to estimate population treatment effects and to evaluate individual patient responses to treatment. Zucker DR, et al. **J Clin Epidemiol** 1997 Apr;50(4):401-10

Factors affecting susceptibility to intramammary infection and mastitis: an approximate Bayesian analysis. Rodriguez-Zas SL, et al. **J Dairy Sci** 1997 Jan;80(1):75-85

Genetic parameters and trends for milk production of blond-faced Latxa sheep using Bayesian analysis. Ugarte E, et al. **J Dairy Sci** 1996 Dec;79(12):2268-77

Bayesian analysis of foraging by pigeons (Columba livia). Killeen PR, et al. **J Exp Psychol Anim Behav Process** 1996 Oct;22(4):480-96

A Bayesian approach to adult human age estimation from dental observations by Johanson's age changes. Lucy D, et al. **J Forensic Sci** 1996 Mar;41(2):189-94

SRS-FT, a Fourier imaging method based on sparse radial scanning and Bayesian estimation. Graveron-Demilly D, et al. **J Magn Reson B** 1996 Aug;112(2):119-23

Assembly of protein tertiary structures from fragments with similar local sequences using simulated annealing and Bayesian scoring functions. Simons KT, et al. **J Mol Biol** 1997 Apr 25;268(1):209-25

Subtle changes in benign tissue adjacent to prostate neoplasia detected with a Bayesian belief network. Montironi R, et al. **J Pathol** 1997 Aug;182(4):442-9

A comparison of a Bayesian population method with two methods as implemented in commercially available software. Bennett JE, et al. **J Pharmacokinet Biopharm** 1996 Aug;24(4):403-32

Bayesian individualization via sampling-based methods. Wakefield J. **J Pharmacokinet Biopharm** 1996 Feb; 24(1):103-31

Bayesian interim analysis of randomised trials [letter; comment] Abrams KR, et al. **Lancet** 1997 Jun 28; 349(9069):1911-2. Comment on: Lancet 1997 Apr 19;349(9059):1166-8.

Bayesian interim statistical analysis of randomised trials [see comments] Brophy JM, et al. **Lancet** 1997 Apr 19; 349(9059):1166-8. Comment in: Lancet 1997 Jun 28;349(9069):1910-1. Comment in: Lancet 1997 Jun 28;349(9069):1911. Comment in: Lancet 1997 Jun 28;349(9069):1911-2.

Bayesian interim analysis of randomised trials [letter; comment] Fayers P. **Lancet** 1997 Jun 28;349(9069):1911. Comment on: Lancet 1997 Apr 19;349(9059):1166-8.

Bayesian interim analysis of randomised trials [letter; comment] Hall GH. **Lancet** 1997 Jun 28;349(9069):1910-1 . Comment on: Lancet 1997 Apr 19;349(9059):1166-8.

Bayesian interim statistical analysis of randomised trials: the case against. Køber L, et al. **Lancet** 1997 Apr 19; 349(9059):1168-9

When to teach Bayesian reasoning [letter; comment] Berner ES. **Med Decis Making** 1997 Apr-Jun;17(2):233. Comment on: Med Decis Making 1996 Jul-Sep;16(3):273-80.

Inferences for likelihood ratios in the absence of a "gold standard". Joseph L, et al. **Med Decis Making** 1996 Oct-Dec;16(4):412-7 (18 ref.)

Bayesian analysis of ROC curves using Markov-chain Monte Carlo methods. Peng F, et al. **Med Decis Making** 1996 Oct-Dec;16(4):404-11

Machine learning of motor vehicle accident categories from narrative data. Lehto MR, et al. **Methods Inf Med** 1996 Dec;35(4-5):309-16

Bayesian phylogenetic inference using DNA sequences: a Markov Chain Monte Carlo Method. Yang Z, et al. **Mol Biol Evol** 1997 Jul;14(7):717-24

An up-down Bayesian, defibrillation efficacy estimator. Compos AT, et al. **Pacing Clin Electrophysiol** 1997 May; 20(5 Pt 1):1292-300

Exploration of once-daily dosing of aminoglycosides through Bayesian simulation. Garrelts JC. **Pharmacotherapy** 1996 Mar-Apr;16(2):286-94

Bayesian reconstruction of PET images: methodology and performance analysis. Mumcuoğlu EU, et al. **Phys Med Biol** 1996 Sep;41(9):1777-807

Implementing the Bayesian paradigm: reporting research results over the World-Wide Web. Lehmann HP, et al. **Proc AMIA Annu Fall Symp** 1996;:433-7

Bayesian statistical analysis of protein side-chain rotamer preferences. Dunbrack RL Jr, et al. **Protein Sci** 1997 Aug; 6(8):1661-81

Risk-based environmental remediation: Bayesian Monte Carlo analysis and the expected value of sample information. Dakins ME, et al. **Risk Anal** 1996 Feb; 16(1):67-79

Medical statistics--what, when, why, how, which [editorial] Dunne T, et al. **S Afr Med J** 1996 Sep;86(9):1079-80

Bayesian framework for the evaluation of fibre transfer evidence. Champod C, et al. **Sci Justice** 1997 Apr-Jun; 37(2):75-83

Non-parametric Bayesian approach to hazard regression: a case study with a large number of missing covariate values. Arjas E, et al. **Stat Med** 1996 Aug 30;15(16):1757-70

A bayesian strategy for evaluating treatments applicable only

to a subset of patients. Atkinson EN. **Stat Med** 1997 Aug 30;16(16):1803–15
Disease mapping with errors in covariates. Bernardinelli L, et al. **Stat Med** 1997 Apr 15;16(7):741–52
A Bayesian analysis of regression models with continuous errors with application to longitudinal studies. Broemeling LD, et al. **Stat Med** 1997 Feb 28;16(4):321–32
Robust Bayesian approaches for clinical trial monitoring [published erratum appears in Stat Med 1997 Jun 15;16(11):1300] Carlin BP, et al. **Stat Med** 1996 Jun 15; 15(11):1093–106
An introduction of smoothing incidence rates by penalized likelihood. Downer RG. **Stat Med** 1996 Apr 15–May 15; 15(7–9):907–17
Bayesian inference in two–phase prevalence studies. Erkanli A, et al. **Stat Med** 1997 May 30;16(10):1121–33
Tutorial in biostatistics Bayesian data monitoring in clinical trials. Fayers PM, et al. **Stat Med** 1997 Jun 30; 16(12):1413–30
Bayesian analysis for a single 2 x 2 table. Hashemi L, et al. **Stat Med** 1997 Jun 30;16(12):1311–28
Bayesian interim analysis of phase II cancer clinical trials. Heitjan DF. **Stat Med** 1997 Aug 30;16(16):1791–802
Bayesian and mixed Bayesian/likelihood criteria for sample size determination. Joseph L, et al. **Stat Med** 1997 Apr 15;16(7):769–81
Grouped random effects models for Bayesian meta–analysis. Larose DT, et al. **Stat Med** 1997 Aug 30;16(16):1817–29
Empirical Bayes estimation of small area prevalence of non–rare conditions. Martuzzi M, et al. **Stat Med** 1996 Sep 15–30;15(17–18):1867–73
Bayesian inference on prevalence using a missing–data approach with simulation–based techniques: applications to HIV screening. Mendoza–Blanco JR, et al. **Stat Med** 1996 Oct 30;15(20):2161–76
Some comments on misspecification of priors in Bayesian modelling of measurement error problems. Richardson S, et al. **Stat Med** 1997 Jan 15–Feb 15;16(1–3):203–13
An empirical Bayes method for studying variation in knee replacement rates. Zhou XH, et al. **Stat Med** 1996 Sep 15–30;15(17–18):1875–84
Robustness considerations in Bayesian analysis. Gustafson P. **Stat Methods Med Res** 1996 Dec;5(4):357–73
Bayesian inference for hierarchical mixtures–of–experts with applications to regression and classification. Jacobs RA, et al. **Stat Methods Med Res** 1996 Dec;5(4):375–90
[Empirical Bayes estimates of relative risk: principles and examples] Colonna M. **Rev Epidemiol Sante Publique** 1997 Apr;45(2):142–9 (Eng. Abstr.) **(Fre)**
[Exploratory–confirmative perspective in biomedical applications of statistics: 2 dialogues (I). Bayesianism versus frequentialism: their respective practical implications on data analysis] Bacallao J. **Med Clin (Barc)** 1996 Oct 12; 107(12):467–71 **(Spa)**

BAYESIAN ANALYSIS see **BAYES THEOREM**

BAYESIAN FORECAST see **BAYES THEOREM**

BAYESIAN METHOD see **BAYES THEOREM**

BAYESIAN PREDICTION see **BAYES THEOREM**

BAZIN'S DISEASE see **ERYTHEMA INDURATUM**

BB–K8 see **AMIKACIN**

BB WISTAR RATS see **RATS, INBRED BB**

BCG see **MYCOBACTERIUM BOVIS**

BCG VACCINE

Influence of BCG vaccination on tuberculin reactivity in healthy Turkish school children [letter] Gülnar SB, et al. **Acta Paediatr** 1997 May;86(5):549
Use of the bacille Calmette–Guérin vaccination for the prevention of tuberculosis: renewed interest in an old vaccine. Cohn DL. **Am J Med Sci** 1997 Jun;313(6):372–6 (56 ref.)
Vaccines for tuberculosis: the glass remains half empty [editorial] Glassroth J. **Ann Intern Med** 1997 Sep 1; 127(5):403–4
BCG vaccination and interpretation of purified protein derivative test results [letter] Li VW, et al. **Arch Dermatol** 1997 Jul;133(7):916–7
BCG and prevention of tuberculous meningitis [letter; comment] Nishioka S de A. **Arch Dis Child** 1996 Sep; 75(3):267. Comment on: Arch Dis Child 1996 Feb;74(2):144–7.
The effect of Bacille Calmette–Guerin (BCG) vaccination on intradermal tuberculin reactivity in Tasmania [letter] Wood–Baker R, et al. **Aust N Z J Med** 1997 Feb;27(1):82–3
BCG vaccination practices in Victoria. Altmann AE, et al. **Aust N Z J Public Health** 1996 Oct;20(5):521–4
No sex differences in immunisation rates of British south Asian children: the effect of migration? Martineau A, et al. **BMJ** 1997 Mar 1;314(7081):642–3
Effects of isoniazid on the proliferation and cytokine production of bladder cancer cells in vitro induced by bacille Calmette–Guérin. Bevers RF, et al. **Br J Urol** 1997 Jul;80(1):35–9
Protective efficacy of BCG against leprosy in São Paulo. Lombardi C, et al. **Bull Pan Am Health Organ** 1996 Mar; 30(1):24–30
Use of Bacille Calmette–Guérin vaccine in health care workers [letter] Reichman LB, et al. **Clin Infect Dis** 1996 Feb;22(2):392
Bacille Calmette–Guérin vaccination and incidence of IDDM in Montreal, Canada. Parent ME, et al. **Diabetes Care** 1997 May;20(5):767–72
Neonatal BCG vaccination in Ireland: evidence of its efficacy in the prevention of childhood tuberculosis. Kelly P, et al. **Eur Respir J** 1997 Mar;10(3):619–23
An audit of BCG immunisation and tuberculin skin testing in Scotland. Scottish BCG Study Group. Pell J, et al. **Health Bull (Edinb)** 1996 Nov;54(6):490–4
Regarding antileprosy vaccine—an apprehension by Dr. Prakash [letter; comment] Fine PE. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4):448–9. Comment on: Int J Lepr Other Mycobact Dis 1995 Dec;63(4):572–3.
Strengthening routine immunization services in the Western Pacific through the eradication of poliomyelitis. Aylward RB, et al. **J Infect Dis** 1997 Feb;175 Suppl 1:S268–71
Improving the coverage of neonatal BCG vaccination. Chappel D, et al. **J Public Health Med** 1996 Sep; 18(3):308–12
Modalities for tuberculosis control: surveillance vs vaccination [letter; comment] Reichman LB, et al. **JAMA** 1997 Apr 2;277(13):1035–6. Comment on: JAMA 1996 Dec 18;276(23):1898–903.
Tuberculin skin test survey in a pediatric population with high BCG vaccination coverage — Botswana, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Sep 12;46(36):846–51
A model of bovine tuberculosis control in domesticated cattle herds. Kao RR, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22;264(1384):1069–76
Pulmonary tuberculosis in a BCG vaccinated area: relationship of disease severity with immunological and hematological parameters and drug resistance patterns. Hussain R, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):257–62
[Update on the BGC vaccine. Indications for use in Europe and in developing countries] Guerin N, et al. **Med Trop (Mars)** 1996;56(2):173–6 (18 ref.) (Eng. Abstr.) **(Fre)**
[Apropos of BCG vaccine] Gicquel B. **Presse Med** 1997 Mar 1;26(6):273–6 **(Fre)**
[Problems the BCG vaccination (letter)] **Orv Hetil** 1996 Jul 28;137(30):1669 **(Hun)**
[Problems with the BCG vaccination (letter)] Seri I. **Orv Hetil** 1996 Jul 28;137(30):1669 **(Hun)**

ADMINISTRATION & DOSAGE

Is the success of BCG tumour immunotherapy due to the induction of co–stimulatory molecules? Alexandroff AB, et al. **Biochem Soc Trans** 1997 May;25(2):201S
Committee to Advise on Tropical Medicine and Travel (CATMAT). Tuberculosis screening and the international traveller. **Can Commun Dis Rep** 1996 Sep 15;22(18):149–55 **(Eng, Fre)**
Multiple bacille Calmette–Guérin vaccinations and interpretation of the Mantoux test in children [letter] Murray DL, et al. **Clin Infect Dis** 1995 Dec;21(6):1533, 1533–4
BCG update: intravesical therapy. Martínez–Piñeiro JA, et al. **Eur Urol** 1997;31 Suppl 1:31–41 (69 ref.)
Does BCG immunization prevent tuberculosis? Paul Y. **Indian Pediatr** 1995 Oct;32(10):1135–7
Serum adenosine deaminase estimation in relation to BCG vaccination. Thora S, et al. **Indian Pediatr** 1995 Oct; 32(10):1087–8
Production of BCG alginate–PLL microcapsules by emulsification/internal gelation. Esquisabel A, et al. **J Microencapsul** 1997 Sep–Oct;14(5):627–38
A 12 versus 6–week course of bacillus Calmette–Guerin prophylaxis for the treatment of high risk superficial bladder cancer. Gruenwald IE, et al. **J Urol** 1997 Feb; 157(2):487–91
Palliative effect of intravesical bacillus Calmette–Guerin in elderly patients with advanced bladder carcinoma. Holmäng S, et al. **J Urol** 1997 Sep;158(3 Pt 1):812–3
Low dose Pasteur bacillus Calmette–Guerin regimen in stage T1, grade 3 bladder cancer therapy [see comments] Hurle R, et al. **J Urol** 1996 Nov;156(5):1602–5. Comment in: J Urol 1996 Nov;156(5):1609–10.
Re: The quality of life during intravesical bacillus Calmette–Guerin therapy [letter; comment] Morales A. **J Urol** 1996 Nov;156(5):1783. Comment on: J Urol 1996 Apr;155(4):1221–6.
Immune responses in mice after gastric and subcutaneous immunization with BCG. Ibsen MW, et al. **Scand J Immunol** 1997 Sep;46(3):274–80
Reiter syndrome following intracavitary BCG administration. Saporta L, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):211–2
Nursing implications in the management of superficial bladder cancer. Games J. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):36–40 (27 ref.)
Role of interleukin–8 in onset of the immune response in intravesical BCG therapy for superficial bladder cancer. de Boer EC, et al. **Urol Res** 1997;25(1):31–4
[Pitfalls in intravesical immunotherapy of superficial carcinoma of the gallbladder with BCG vaccine] Pacík D, et al. **Rozhl Chir** 1997 Jan;76(1):3–5 (Eng. Abstr.) **(Cze)**
[BCG therapy of superficial bladder cancer. Current status of clinical aspects and research] **Urologe A** 1993 Mar;32(2 [bcg–therap]):1–12 **(Ger)**
[Therapy and prevention of recurrence in bladder cancer. Convincing results] **Urologe A** 1995 Sep;34(5 Suppl):1–4 **(Ger)**
[BCG vaccination] Hutás I. **Orv Hetil** 1996 Mar 24; 137(12):619–22 (31 ref.) (Eng. Abstr.) **(Hun)**
[Long–term experience with prophylactic BCG therapy of high risk patients with superficial bladder tumors] Prekopp G, et al. **Orv Hetil** 1997 Mar 2;138(9):531–5 (39 ref.) (Eng. Abstr.) **(Hun)**
[The intravesical administration of BCG vaccine in treating recurrent superficial bladder cancer] Panteleeva ES, et al. **Urol Nefrol (Mosk)** 1997 Mar–Apr;(2):29–32 (Eng. Abstr.) **(Rus)**
[Response of lymphocytes and cytokines in patients with superficial bladder cancer treated with 1 mg of BCG vaccine instillations] Rivera P, et al. **Actas Urol Esp** 1996 Oct;20(9):812–7 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Mycobacterial sepsis following intravesical instillation of bacillus Calmette–Guérin. Garyfallou GT. **Acad Emerg Med** 1996 Feb;3(2):157–60 (12 ref.)
Cytomorphologic patterns in Calmette Guerin bacillus lymphadenitis. Gupta K, et al. **Acta Cytol** 1997 Mar–Apr; 41(2):348–50
Familial liability to complications after BCG vaccination. Banac S, et al. **Acta Paediatr** 1997 Aug;86(8):899–902
Ulceration of a previously healed BCG scar in suspected disseminated BCG infection. Eregie CO. **Ann Trop Paediatr** 1997 Jun;17(2):135–9
Miliary tuberculosis following intravesical BCG treatment [letter] Foster DR. **Br J Radiol** 1997 Apr;70:429
Lichen striatus following BCG vaccination [letter] Hwang SM, et al. **Clin Exp Dermatol** 1996 Sep;21(5):393–4
Lupus vulgaris–like reaction following BCG vaccination. Stewart EJ, et al. **Clin Exp Dermatol** 1996 May;21(3):232–4
Disseminated bacille Calmette–Guérin disease after vaccination: case report and review. Talbot EA, et al. **Clin Infect Dis** 1997 Jun;24(6):1139–46 (85 ref.)
A pityriasis rosea–like eruption secondary to bacillus Calmette–Guérin therapy for bladder cancer. Honl BA, et al. **Cutis** 1996 Jun;57(6):447–50
Disseminated BCG infection. Chugh K. **Indian Pediatr** 1997 Mar;34(3):269–71
Regional lymphadenitis following antileprosy vaccine BCG with killed Mycobacterium leprae. De Britto RL, et al. **Int J Lepr Other Mycobact Dis** 1997 Mar;65(1):12–9
Child's tuberculous lymphadenitis with fistula evoked by the BCG stem. Jakubíková J, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):85–90
Primary inoculation tuberculosis after immunotherapy for malignant melanoma with BCG vaccine. Caplan SE, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):783–5
An ulcerated lesion at the BCG vaccination site during the course of Kawasaki disease. Kuniyuki S, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):303–4 (15 ref.)
Arthritis after bacillus Calmette–Guérin therapy [letter; comment] Goupille P, et al. **J Rheumatol** 1996 Aug; 23(8):1481–2. Comment on: J Rheumatol 1995 Oct;22(10):2010.
Reactive arthritis associated with bacillus Calmette–Guérin immunotherapy for carcinoma of the bladder: immune reactivity against mycobacterial antigens [letter] Miossec P. **J Rheumatol** 1996 Aug;23(8):1485
Arthritis and iritis after bacillus Calmette–Guérin therapy [letter; comment] [see comments] Missioux D, et al. **J Rheumatol** 1995 Oct;22(10):2010. Comment on: J Rheumatol 1994 Mar;21(3):564–5. Comment in: J Rheumatol 1996 Aug;23(8):1481–2.
Synovial membrane cytokine profiles in reactive arthritis secondary to intravesical bacillus Calmette–Guérin therapy. Smith MD, et al. **J Rheumatol** 1997 Apr; 24(4):752–8
Tuberculous iliac lymphadenitis: a rare complication of intravesical bacillus Calmette–Guerin and cause of tumor over staging. Ali–el Dein B, et al. **J Urol** 1996 Nov; 156(5):1766–7
Granulomatous mass in a nonrefluxing renal unit after bacillus Calmette–Guerin therapy for bladder cancer. Siskron FT 4th, et al. **J Urol** 1997 Sep;158(3 Pt 1):882–3
Transrectal ultrasound appearance of prostatic granulomas secondary to bacillus Calmette–Guerin instillation. Terris MK, et al. **J Urol** 1997 Jul;158(1):126–7
Does isoniazid reduce side effects of intravesical bacillus Calmette–Guerin therapy in superficial bladder cancer? Interim results of European Organization for Research and Treatment of Cancer Protocol 30911. Vegt PD, et al. **J Urol** 1997 Apr;157(4):1246–9
Disseminated cutaneous eruption after BCG vaccination. Rositto A, et al. **Pediatr Dermatol** 1996 Nov–Dec; 13(6):451–4
Possible hazards of routine bacillus Calmette–Guérin immunization in human immunodeficiency virus–infected children. Edwards KM, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):836–8 (22 ref.)
Bacille Calmette–Guérin osteomyelitis. Nishi J, et al.

Pediatr Infect Dis J 1997 Mar;16(3):332–3
Is BCG vaccine innocent? Karnak I, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):220–3
Miliary lung disease after intravesical bacillus Calmette–Guérin immunotherapy. Jasmer RM, et al. **Radiology** 1996 Oct;201(1):43–4
Disseminated pulmonary granulomas after intravesical bacillus Calmette–Guérin immunotherapy. De Diego A, et al. **Respiration** 1997;64(4):304–6
Epididymo–orchitis and Reiter's disease. Two infrequent complications after intravesical bacillus Calmette–Guérin therapy. Hansen CP, et al. **Scand J Urol Nephrol** 1997 Jun; 31(3):317–8
Incidence of granulomatous prostatitis and acid–fast bacilli after intravesical BCG therapy. LaFontaine PD, et al. **Urology** 1997 Mar;49(3):363–6
Surgical treatment of bacillus Calmette Guérin lymphadenitis. Hengster P, et al. **World J Surg** 1997 Jun; 21(5):520–3
[Miliary dissemination with pulmonary involvement secondary to intravesical immunotherapy with Calmette–Guérin bacillus] Paredes Arranz C, et al. **Arch Bronconeumol** 1996 Feb;32(2):100–2 (Eng. Abstr.) **(Spa)**
[Granulomatous prostatitis as a complication of BCG intravesical instillation. Report of a case] Luján Galán M, et al. **Arch Esp Urol** 1996 Nov;49(9):979–81 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Stabilisation of BCG vaccines. Gheorghiu M, et al. **Dev Biol Stand** 1996;87:251–61 (26 ref.)
Production of BCG alginate–PLL microcapsules by emulsification/internal gelation. Esquisabel A, et al. **J Microencapsul** 1997 Sep–Oct;14(5):627–38

CLASSIFICATION

Comparison of the immune responses in children vaccinated with three strains of BCG vaccine. Vijayalakshmi V, et al. **Indian Pediatr** 1995 Sep;32(9):979–82

ECONOMICS

The cost–effectiveness of preventing tuberculosis in physicians using tuberculin skin testing or a hypothetical vaccine. Nettleman MD, et al. **Arch Intern Med** 1997 May 26;157(10):1121–7

GENETICS

Gene replacement in Mycobacterium tuberculosis: first steps towards new TB vaccines. Dale JW. **Vaccine** 1996 Feb; 14(2):95–6

HISTORY

Tuberculosis of the skin: historical perspectives on tuberculin and Bacille Calmette Guérin. Beutner EH. **Int J Dermatol** 1997 Jan;36(1):73–7

IMMUNOLOGY

Neonatal BCG vaccination and tuberculin skin sensitivity among schoolchildren of the United Arab Emirates. Uduman SA, et al. **Ann Trop Paediatr** 1996 Dec;16(4):353–7
Rational design of antituberculosis vaccines: impact of antigen display and vaccine localization. Kaufmann SH, et al. **Biologicals** 1997 Jun;25(2):169–73 (25 ref.)
Comparative safety and immunogenicity trial of two killed Leishmania major vaccines with or without BCG in human volunteers. Bahar K, et al. **Clin Dermatol** 1996 Sep–Oct; 14(5):489–95
Humoral response against heat shock proteins and other mycobacterial antigens after intravesical treatment with bacille Calmette–Guérin (BCG) in patients with superficial bladder cancer. Zlotta AR, et al. **Clin Exp Immunol** 1997 Jul;109(1):157–65
Bacille Calmette Guérin and interleukin–12 down–modulate interleukin–4–producing CD4+ NK1+ T lymphocytes. Emoto M, et al. **Eur J Immunol** 1997 Jan;27(1):183–8
Tumor cells expressing a recall antigen are powerful cancer vaccines. Schweighoffer T. **Eur J Immunol** 1996 Nov; 26(11):2559–64
Management after exposure to tuberculosis. Jordan TJ, et al. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):73–6, 81–4, 86
BCG specificity of an inhibitory seric factor from tuberculosis anergic patients that acts on non–adherent PPD reactive cells. Mejía–López H, et al. **Immunol Invest** 1997 Apr;26(3):323–31
Immune response & modulation of immune response induced in the guinea–pigs by Mycobacterium avium complex (MAC) & M. fortuitum complex isolates from different sources in the south Indian BCG trial area. Kamala T, et al. **Indian J Med Res** 1996 Apr;103:201–11
Genetic control of antibody responses induced by recombinant Mycobacterium bovis BCG expressing a foreign antigen. Lagranderie M, et al. **Infect Immun** 1997 Aug;65(8):3057–64
Adjuvant modulation of immune responses to tuberculosis subunit vaccines. Lindblad EB, et al. **Infect Immun** 1997 Feb;65(2):623–9
Activation of CD8 T cells with specificity for mycobacterial heat shock protein 60 in Mycobacterium bovis bacillus Calmette–Guérin–vaccinated mice. Zügel U, et al. **Infect Immun** 1997 Sep;65(9):3947–50
Immunization of BALB/c mice with mIFN–gamma–secreting Mycobacterium bovis BCG provides early protection against Leishmania major infection. Kong D, et al. **Int J Parasitol** 1997 Mar; 27(3):349–53
Differential responses to challenge with live and dead Mycobacterium bovis Bacillus Calmette–Guérin. Chambers MA, et al. **J Immunol** 1997 Feb 15;158(4):1742–8
Human T cell responses induced by vaccination with Mycobacterium bovis bacillus Calmette–Guérin. Ravn P, et al. **J Immunol** 1997 Feb 15;158(4):1949–55
Evolution and clinical significance of the T cell proliferative and cytokine response directed against the fibronectin binding antigen 85 complex of bacillus Calmette–Guerin during intravesical treatment of superficial bladder cancer. Zlotta AR, et al. **J Urol** 1997 Feb;157(2):492–8
Early BCG vaccination and development of atopy [see comments] Alm JS, et al. **Lancet** 1997 Aug 9; 350(9075):400–3. Comment in: Lancet 1997 Aug 9;350(9075):380–1.
BCG vaccination and atopy—unfinished business? [comment] Silverman M. **Lancet** 1997 Aug 9;350(9075):380–1. Comment on: Lancet 1997 Aug 9;350(9075):400–3.
Has BCG attenuated to impotence? [letter] Behr MA, et al. **Nature** 1997 Sep 11;389(6647):133–4
Cross–reactive immune responses against Mycobacterium bovis BCG in mice infected with non–tuberculous mycobacteria belonging to the MAIS–Group. Lozes E, et al. **Scand J Immunol** 1997 Jul;46(1):16–26
Atopic disease and immunologic response [letter; comment] Shearer GM, et al. **Science** 1997 Apr 4;276(5309):17–8; discussion 18–9. Comment on: Science 1997 Jan 3;275(5296):77–9.
BCG vaccination in low birth weight newborns: analysis of lymphocyte proliferation, IL–2 generation and intradermal reaction to PPD. Ferreira AA, et al. **Tuber Lung Dis** 1996 Oct;77(5):476–81
Protection against tuberculosis by a plasmid DNA vaccine. Lowrie DB, et al. **Vaccine** 1997 Jun;15(8):834–8
Immunogenicity and efficacy of a tuberculosis DNA vaccine encoding the components of the secreted antigen 85 complex. Lozes E, et al. **Vaccine** 1997 Jun;15(8):830–3
Stable expression and secretion of the B–cell epitope of rodent malaria from Mycobacterium bovis BCG and induction of long–lasting humoral response in mouse. Matsumoto S, et al. **Vaccine** 1996 Jan;14(1):54–60
Immunobiological properties of a 30 kDa secretory protein of Mycobacterium tuberculosis H37Ra. Sinha RK, et al. **Vaccine** 1997 Apr–May;15(6–7):689–99
Expression and immunogenicity of Mycobacterium tuberculosis antigen 85 by DNA vaccination. Ulmer JB, et al. **Vaccine** 1997 Jun;15(8):792–4
[BCG vaccination to Mycobacterium leprae infection in mice] Nomaguchi H, et al. **Nippon Rai Gakkai Zasshi** 1996 Jul;65(2):106–12 (Eng. Abstr.) **(Jpn)**
[The search for ways to improve the efficacy of tuberculosis revaccination in children with immunological deficiency] Chernushenko EF, et al. **Probl Tuberk** 1996;(1):29–32 (Eng. Abstr.) **(Rus)**
[The uses and effects of the Calmette–Guérin Mycobacterium bovis bacillus (BCG Vaccination)] López–Antuñano FJ. **Salud Publica Mex** 1997 Mar–Apr;39(2):156–61 (65 ref.) **(Spa)**
[Update topic: the uses and effects of the Calmette–Guérin Mycobacterium bovis bacillus (BCG vaccine) (editorial; comment)] Valdespino Gómez JL. **Salud Publica Mex** 1997 Mar–Apr;39(2):93–4. Comment on: Salud Publica Mex 1997 Mar–Apr;39(2):156–61. **(Spa)**

PHARMACOLOGY

Cellular activation induced by BCG is a PTK–dependent event. Méndez–Samperio P, et al. **Cell Immunol** 1996 Jul 10;171(1):147–52
BCG specificity of an inhibitory seric factor from tuberculosis anergic patients that acts on non–adherent PPD reactive cells. Mejía–López H, et al. **Immunol Invest** 1997 Apr;26(3):323–31
Immunization of BALB/c mice with mIFN–gamma–secreting Mycobacterium bovis BCG provides early protection against Leishmania major infection. Kong D, et al. **Int J Parasitol** 1997 Mar; 27(3):349–53

SECRETION

Stable expression and secretion of the B–cell epitope of rodent malaria from Mycobacterium bovis BCG and induction of long–lasting humoral response in mouse. Matsumoto S, et al. **Vaccine** 1996 Jan;14(1):54–60

STANDARDS

Of airships, space shuttles, and biological products. Beale J. **J R Soc Med** 1997 Mar;90(3):166–9

THERAPEUTIC USE

Mycobacterial sepsis following intravesical instillation of bacillus Calmette–Guérin. Garyfallou GT. **Acad Emerg Med** 1996 Feb;3(2):157–60 (12 ref.)
CDC describes limited role for BCG vaccine in TB prevention [news] **Am J Health Syst Pharm** 1996 Jun 15; 53(12):1393
Nuclear accumulation of mutant p53 protein: a possible predictor of failure of intravesical therapy in bladder cancer. Caliskan M, et al. **Br J Urol** 1997 Mar;79(3):373–7
The management of superficial bladder cancer: an interactive seminar [see comments] McFarlane JP, et al. **Br J Urol** 1996 Sep;78(3):372–8 (36 ref.). Comment in: Br J Urol 1997 May;79(5):818.
Quality of life in patients undergoing bacille Calmette–Guérin therapy for superficial bladder cancer. Mack D, et al. **Br J Urol** 1996 Sep;78(3):369–71
Evaluation of local immune response after intravesical bacille Calmette–Guérin treatment for superficial bladder cancer. Patard JJ, et al. **Br J Urol** 1996 Nov;78(5):709–14
Prognostic value of tuberculin and BCG immunoreactivity in stage I high–risk malignant melanoma (EORTC protocol 18781). Henz BM, et al. **Dermatology** 1996;193(2):105–9
New strategy of bio–chemoprevention on recurrence of superficial bladder cancer based on a hypothesis of the mechanism of recurrence. Akaza H. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:253–6 (13 ref.)
A case–control study of the effectiveness of BCG vaccine for preventing leprosy in Yangon, Myanmar. Bertolli J, et al. **Int J Epidemiol** 1997 Aug;26(4):888–96
Immunohistochemical study of tumor–infiltrating lymphocytes before and after intravesical bacillus Calmette–Guérin treatment for superficial bladder cancer. Honda S, et al. **Int J Urol** 1997 Jan;4(1):68–73
Recurrence of primary superficial bladder cancer treated with prophylactic intravesical Tokyo 172 bacillus Calmette–Guérin: a long–term follow–up. Shinka T, et al. **Int J Urol** 1997 Mar;4(2):139–43
BCG versus epirubicin in the prophylaxis of multiple superficial bladder tumours: results of a prospective randomized study using modified treatment schemes. Melekos MD, et al. **Int Urol Nephrol** 1996;28(4):499–509
Adoptive immunotherapy with vaccine–primed lymph node cells secondarily activated with anti–CD3 and interleukin–2. Chang AE, et al. **J Clin Oncol** 1997 Feb; 15(2):796–807
Overexpression of p53 protein in a high–risk population of patients with superficial bladder cancer before and after bacillus Calmette–Guérin therapy: correlation to clinical outcome. Lacombe L, et al. **J Clin Oncol** 1996 Oct; 14(10):2646–52
Effectiveness of bacillus Calmette Guerin (BCG) vaccination against extra–pulmonary tuberculosis: a case–control study. Zodpey SP, et al. **J Commun Dis** 1996 Jun;28(2):77–84
Effectiveness of bacillus of Calmette–Guerin (BCG) vaccination against tuberculous meningitis: a case–control study. Zodpey SP, et al. **J Indian Med Assoc** 1996 Sep; 94(9):338–40
Adjuvant immunotherapy in melanoma with irradiated autologous tumor cells and low dose cyclophosphamide. Elias EG, et al. **J Surg Oncol** 1997 Jan;64(1):17–22
Genetically regulated response to intravesical bacillus Calmette Guerin immunotherapy of orthotopic murine bladder tumor. Kadhim SA, et al. **J Urol** 1997 Aug; 158(2):646–52
The efficacy of intravesical Tice strain bacillus Calmette–Guerin in the treatment of interstitial cystitis: a double–blind, prospective, placebo controlled trial. Peters K, et al. **J Urol** 1997 Jun;157(6):2090–4
Interleukin–8 expression in the urine after bacillus Calmette–Guerin therapy: a potential prognostic factor of tumor recurrence and progression. Thalmann GN, et al. **J Urol** 1997 Oct;158(4):1340–4
BCG vaccine in insulin–dependent diabetes mellitus. IMDIAB Group [letter] Pozzilli P. **Lancet** 1997 May 24; 349(9064):1520–1
BCG and praziquantel for Schistosomiasis treatment. Viana L de G, et al. **Mem Inst Oswaldo Cruz** 1996 Sep–Oct; 91(5):637
Diagnosis and treatment of superficial bladder cancer: an update. Crawford ED. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):1–9 (70 ref.)
Intravesical chemotherapy versus immunotherapy for superficial bladder cancer. Huben RP. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):17–22 (26 ref.)
Update on the Dutch Cooperative Trial: mitomycin versus bacillus Calmette–Guérin–Tice versus bacillus Calmette–Guérin RIVM in the treatment of patients with pTA–pT1 papillary carcinoma and carcinoma in situ of the urinary bladder. Dutch South East Cooperative Urological Group. Witjes WP, et al. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):10–6
Local expression of cytokines in rat bladder carcinoma tissue after intravesical treatment with Nocardia rubra cell wall skeleton and bacille–Calmette–Guerin. Rohde D, et al. **Urol Res** 1997;25(1):19–24
Additional bacillus Calmette–Guérin therapy for recurrent transitional cell carcinoma after an initial complete response. Bui TT, et al. **Urology** 1997 May;49(5):687–90; discussion 690–1
Significance of p53 overexpression in urinary bladder transitional cell carcinoma in situ before and after bacillus Calmette–Guérin treatment. Ick K, et al. **Urology** 1997 Apr; 49(4):541–6; discussion 546–7
Bacillus Calmette–Guérin plus intravesical interferon alpha–2b in patients with superficial bladder cancer. Stricker P, et al. **Urology** 1996 Dec;48(6):957–61; discussion

961–2
European Commission COST/STD Initiative. Report of the expert panel IX. Vaccines against tuberculosis. Harboe M, et al. **Vaccine** 1996 May;14(7):701–16 (23 ref.)
[The need of prolonged BCG treatment in superficial bladder cancer is suggested by the development of a peripheral immune response induced by BCG] Shekarsarai H, et al. **Acta Urol Belg** 1997 Mar;65(1):1–4 (Eng. Abstr.) **(Fre)**
[Levels of monokines in peripheral monocytes in patients with superficial tumors of the bladder treated with BCG. Results after 1– and 3–year follow–up] Iantorno R, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:69–70 (Eng. Abstr.) **(Ita)**
[Role of MCP–1 chemokine in the response of monocytes of patients with superficial tumors of the bladder treated with BCG immunotherapy] Iantorno R, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:71–2 (Eng. Abstr.) **(Ita)**
[Intrarenal bacillus Calmette–Guerin therapy for carcinoma in situ of the upper urinary tract] Okubo K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):386–90 (12 ref.) (Eng. Abstr.) **(Jpn)**
[BCG immunotherapy and vulgar warts (letter)] Palou J, et al. **Actas Urol Esp** 1996 Nov–Dec;20(10):928–9 **(Spa)**
[Tuberculosis infection prevalence in children younger than 7 years of age in Cantabria. What is the recommended periodicity for the tuberculin tes?] Rollán Rollán A, et al. **An Esp Pediatr** 1997 Mar;46(3):241–4 (Eng. Abstr.) **(Spa)**
[Results of a prospective study of chemoprophylaxis with alternating mitomycin–C and BCG: complete response and recurrence and progression index] Nohales Taurines G, et al. **Arch Esp Urol** 1996 Sep;49(7):689–92 (Eng. Abstr.) **(Spa)**

BCL–2 GENES see **GENES, BCL–2**

BCL–2 PROTO–ONCOGENE PROTEINS see **PROTO–ONCOGENE PROTEINS C–BCL–2**

BCNU see **CARMUSTINE**

BCR–ABL FUSION PROTEINS see **FUSION PROTEINS, BCR–ABL**

BDELLOVIBRIO

PHYSIOLOGY

Bacterial capsules: no barrier against Bdellovibrio. Koval SF, et al. **Microbiology** 1997 Mar;143 (Pt 3):749–53

BDNF see **BRAIN–DERIVED NEUROTROPHIC FACTOR**

BEAK

The effect of beak trimming on two strains of commercial tom turkeys. 2. Behavior traits. Noble DO, et al. **Poult Sci** 1996 Dec;75(12):1468–71
Beak trimming of turkeys. 1. Effects of three methods of beak trimming on body weight and mortality of six genetic lines. Noble DO, et al. **Poult Sci** 1996 Jun;75(6):702–4

ABNORMALITIES

Cleft beak induced by hydrocortisone in the chick is prevented by increased cell division after experimental reduction of amniotic fluid. Peterka M, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):387–91
Inhibition of 3,3',4,4',5–pentachlorobiphenyl–induced chicken embryotoxicity by 2,2',4,4',5,5'–hexachlorobiphenyl. Zhao F, et al. **Fundam Appl Toxicol** 1997 Jan;35(1):1–8

EMBRYOLOGY

Alterations in Msx 1 and Msx 2 expression correlate with inhibition of outgrowth of chick facial primordia induced by retinoic acid. Brown JM, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):203–7

PATHOLOGY

[What is your diagnosis? Psittacine beak and feather disease] Rippinger P, et al. **Schweiz Arch Tierheilkd** 1996; 138(6):319–22 **(Ger)**

PHYSIOLOGY

Visual sensation during pecking in pigeons. Ostheim J. **Eur J Morphol** 1997 Oct;35(4):269–76 (36 ref.)
Behavioral morphology of the pigeon's peck: ingestion, prehension and cognition. Zeigler HP. **Eur J Morphol** 1997 Oct;35(4):255–68 (31 ref.)
Beak trimming of turkeys. 2. Effects of arc beak trimming on weight gain, feed intake, feed wastage, and feed conversion. Noble DO, et al. **Poult Sci** 1997 May; 76(5):668–70

SURGERY

The absence of neuromas in beaks of adult hens after conservative trimming at hatch [published erratum appears in Aust Vet J 1996 Aug;74(2):161] Lunam CA, et al. **Aust Vet J** 1996 Jul;74(1):46–9

BEAK AND FEATHER DISEASE VIRUS see **CIRCOVIRUS**

BEANS see **LEGUMES**

BEARS

One inhabitant per fifty square kilometers, one grizzly bear per two persons—a field study of health services in Yukon, Canada, May–June 1993. Haraldson S. **Arctic Med Res** 1996 Jan;55(1):32–42 (34 ref.)
Rabid black bears in Ontario. Walroth R, et al. **Can Vet J** 1996 Aug;37(8):492
Pyrenean bears [letter; comment] Guiserix J. **Lancet** 1997 Aug 23;350(9077):596. Comment on: Lancet 1997 Jul 12;350(9071):112–3.
Acute Chagas' cardiopathy in a polar bear (Ursus maritimus) in Guadalajara, Mexico. Jaime–Andrade J, et al. **Rev Soc Bras Med Trop** 1997 Jul–Aug;30(4):337–40 (13 ref.)
Hepatitis in a European brown bear with canine infectious hepatitis–like lesions. Kritsepi M, et al. **Vet Rec** 1996 Dec 14;139(24):600–1
Haemangiosarcoma of the conjunctiva of a giant panda [letter] Lopez M, et al. **Vet Rec** 1996 Jan 6;138(1):24
[Animal welfare aspects relevant to the design of the spectacled bear facility in the Zürich Zoo] Rübel A. **Schweiz Arch Tierheilkd** 1996;138(12):586–90 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

The carnivore remains from the Sima de los Huesos Middle Pleistocene site (Sierra de Atapuerca, Spain). Garcia N, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):155–74

CLASSIFICATION

A phylogeny of the bears (Ursidae) inferred from complete sequences of three mitochondrial genes. Talbot SL, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):567–75
Phylogeography of brown bears (Ursus arctos) of Alaska and paraphyly within the Ursidae. Talbot SL, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):477–94

GENETICS

Noninvasive genetic tracking of the endangered Pyrenean brown bear population. Taberlet P, et al. **Mol Ecol** 1997 Sep;6(9):869–76
Phylogeography of brown bears (Ursus arctos) of Alaska and paraphyly within the Ursidae. Talbot SL, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):477–94
A phylogeny of the bears (Ursidae) inferred from complete sequences of three mitochondrial genes. Talbot SL, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):567–75

METABOLISM

Chemical characterization of milk oligosaccharides of the brown bear, Ursus arctos yesoensis. Urashima T, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):247–55
Immunoquantitation of cytochromes P450 1A and P450 2B and comparison with chlorinated hydrocarbon levels in archived polar bear liver samples. Bandiera SM, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):1469–79

PARASITOLOGY

DNA–confirmed Taenia solium cysticercosis in black bears (Ursus americanus) from California. Theis JH, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):456–8
Fatal hepatic sarcocystosis in two polar bears (Ursus maritimus). Garner HM, et al. **J Parasitol** 1997 Jun; 83(3):523–6
Trichinella britovi from Japan. Pozio E, et al. **J Parasitol** 1996 Oct;82(5):847–9
Prouterina wescotti n. gen., n. sp. (Trematoda: Prouterinidae N. Fam.) from the brain, lungs, and nasal sinuses of a black bear (Ursus americanus) from Idaho. Foreyt WJ, et al. **J Wildl Dis** 1996 Apr;32(2):225–33

PHYSIOLOGY

Seasonal changes in spermatogenesis and testicular steroidogenesis in the male black bear Ursus americanus. Tsubota T, et al. **J Reprod Fertil** 1997 Jan;109(1):21–7
Intraovarian immunolocalization of steroidogenic enzymes in a Hokkaido brown bear, Ursus arctos yesoensis during the mating season. Araki H, et al. **J Vet Med Sci** 1996 Aug;58(8):787–90
Spermatogenic cycle in the testis of the Japanese black bear (Selenarctos thibetanus japonicus). Komatsu T, et al. **J Vet Med Sci** 1996 Apr;58(4):329–35
Seasonal changes in the immunolocalization of steroidogenic enzymes in the testes of the Japanese black bear (Ursus thibetanus japonicus). Komatsu T, et al. **J Vet Med Sci** 1997 Jul;59(7):521–9

PSYCHOLOGY

Questioning the efficacy of psychotropic drugs [letter; comment] Mobley TE. **J Am Vet Med Assoc** 1996 Dec 15;209(12):1995–6. Comment on: J Am Vet Med Assoc 1996 Oct 15;209(8):1470–4.
Use of fluoxetine for the treatment of stereotypical pacing behavior in a captive polar bear [see comments] Poulsen EM, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1470–4 . Comment in: J Am Vet Med Assoc 1996 Dec 15;209(12):1995–6.

VIROLOGY

Serological evidence of morbillivirus infection in polar bears (Ursus maritimus) from Alaska and Russia. Follmann EH, et al. **Vet Rec** 1996 Jun 22;138(25):615–8

BEAUTY

The effects of physical attractiveness on gaining access to alcohol: when social policy meets social decision making. McCall M. **Addiction** 1997 May;92(5):597–600
Facial beauty. Myth or reality? Larrabee WF Jr. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):571–2
The perception of sexual attractiveness: sex differences in variability. Townsend JM, et al. **Arch Sex Behav** 1997 Jun; 26(3):243–68
Cosmesis following complete local excision of breast cancer. Lindsey I, et al. **Aust N Z J Surg** 1997 Jul;67(7):428–32
Beauty is in the soul of the beholder: psychological implications of beauty and African American women. Hall CC. **Cult Divers Ment Health** 1995;1(2):125–37
Strictly from Hungerford: what medical and scientific artists should know about philosophy. Cody J. **J Biocommun** 1997; 24(1):7–11
Black skin and the ideal of beauty [letter] Holubar K. **J Invest Dermatol** 1997 May;108(5):813–4
Attachment, attractiveness, and social interaction: a diary study. Tidwell MC, et al. **J Pers Soc Psychol** 1996 Oct; 71(4):729–45
Perceptual asymmetries in judgements of facial attractiveness, age, gender, speech and expression. Burt DM, et al. **Neuropsychologia** 1997 May;35(5):685–93
Brain asymmetry and facial attractiveness: facial beauty is not simply in the eye of the beholder. Chen AC, et al. **Neuropsychologia** 1997 Apr;35(4):471–6
Why Barbie is perceived as beautiful. Magro AM. **Percept Mot Skills** 1997 Aug;85(1):363–74
The face of AIDS: Effects of physical attractiveness and target gender on inferred mode of HIV infection. Boehm L, et al. **Psychol Rep** 1996 Apr;78(2):595–8
[Beautifying the breast] Le Gouès G. **Contracept Fertil Sex** 1997 Jun;25(6):475–81 (31 ref.) (Eng. Abstr.) **(Fre)**
[The function of a face on person perception: the effect of the number of targets and degree of facial attractiveness] Kawanishi C. **Shinrigaku Kenkyu** 1995 Oct;66(4):261–8 (Eng. Abstr.) **(Jpn)**

BEAUTY CULTURE

Control of ethyl methacrylate exposures during the application of artificial fingernails. Spencer AB, et al. **Am Ind Hyg Assoc J** 1997 Mar;58(3):214–8
Occupational immediate–type hypersensitivity to henna in a hairdresser. Majoie IM, et al. **Am J Contact Dermat** 1996 Mar;7(1):38–40
Cancers of the salivary gland: workplace risks among women and men. Swanson GM, et al. **Ann Epidemiol** 1997 Aug; 7(6):369–74
Monitoring and modelling of exposure to ethanol in hairdressing salons. van Muiswinkel WJ, et al. **Ann Occup Hyg** 1997 Apr;41(2):235–47
An unusual (and somewhat piercing) cause of paraphimosis. Jones SA, et al. **Br J Urol** 1996 Nov;78(5):803–4
Occupational contact dermatitis in a beautician. O'Reilly FM, et al. **Contact Dermatitis** 1996 Jul;35(1):47–8
Occupational allergic contact dermatitis from thiolactic acid contained in 'ester–free' permanent–waving solutions. Straube M, et al. **Contact Dermatitis** 1996 Mar;34(3):229–30
Expression of atopic criteria in a population of medical nurses and hairdressers at the beginning of vocational training. Gebhardt M, et al. **Curr Probl Dermatol** 1995;23:56–63
Occupational dermatitis in hairdressing apprentices. Early–onset irritant skin damage. Uter W, et al. **Curr Probl Dermatol** 1995;23:49–55
Recognition of veneer restorations by dentists and beautician students. Meijering AC, et al. **J Oral Rehabil** 1997 Jul; 24(7):506–11
[Appearance and health: the role of cosmetics] Lévêque JL. **Rev Med Liege** 1996 Nov;51(11):721–5 **(Fre)**

INSTRUMENTATION

Survey of the variation in ultraviolet outputs from ultraviolet A sunbeds in Bradford. Wright AL, et al. **Photodermatol Photoimmunol Photomed** 1996 Feb; 12(1):12–6

BEAVERS see **RODENTIA**

BECHTEREW'S DISEASE see **SPONDYLITIS, ANKYLOSING**

BECKER MUSCULAR DYSTROPHY see **MUSCULAR DYSTROPHY**

BECKWITH-WIEDEMANN SYNDROME

Clinical features in the Wiedemann-Beckwith syndrome [letter; comment] Martínez y Martínez R. **Clin Genet** 1996 Oct;50(4):272-4. Comment on: Clin Genet 1994 Aug;46(2):168-74.

COMPLICATIONS

Hepatoblastoma in an infant with Beckwith-Wiedemann Syndrome. Tsai SY, et al. **J Formos Med Assoc** 1996 Feb; 95(2):180-3

Myelodysplasia in a child with Beckwith-Wiedemann syndrome previously treated for hepatoblastoma with multi-agent chemotherapy [letter] Koishi S, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):419-20

Congenital mesoblastic nephroma in a child with the Beckwith-Wiedemann syndrome. Sutherland RW, et al. **J Urol** 1997 Oct;158(4):1532-3

Bilateral cystic adrenal masses in the neonate associated with the incomplete form of Beckwith-Wiedemann syndrome. Akata D, et al. **Pediatr Radiol** 1997 Jan;27(1):1-2

Beckwith-Wiedemann syndrome and splenic hemangioma: report of a case. Herman TE, et al. **Pediatr Radiol** 1997 Apr;27(4):350-2

Enlarging giant liver cyst in Beckwith-Wiedemann syndrome [letter] Takano H, et al. **Pediatr Radiol** 1997 Jul; 27(7):619-20

DIAGNOSIS

Beckwith-Wiedemann syndrome. Sarin YK. **Indian Pediatr** 1997 Mar;34(3):259-60

[The Wiedemann-Beckwith syndrome. Its natural history and levels of prevention] Martínez y Martínez R, et al. **Gac Med Mex** 1997 May-Jun;133(3):195-202 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Frequency of Wiedemann-Beckwith syndrome in Germany; rate of hemihyperplasia and of tumours in affected children [letter] Wiedemann HR. **Eur J Pediatr** 1997 Mar;156(3):251

ETIOLOGY

Extending the overlap of three congenital overgrowth syndromes. Coppin B, et al. **Clin Genet** 1997 Jun; 51(6):375-8

GENETICS

Wiedman-Beckwith syndrome, tumorigenesis and imprinting. Junien C. **Acta Genet Med Gemellol (Roma)** 1996; 45(1-2):77-82 (23 ref.)

A new case of Beckwith-Wiedemann syndrome with an 11p15 duplication of paternal origin [46,XY,-21,+der(21), t(11;21)(p15.2;q22.3)pat] Krajewska-Walasek M, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):245-50

Low frequency of p57KIP2 mutation in Beckwith-Wiedemann syndrome. Lee MP, et al. **Am J Hum Genet** 1997 Aug;61(2):304-9

Coding mutations in p57KIP2 are present in some cases of Beckwith-Wiedemann syndrome but are rare or absent in Wilms tumors. O'Keefe D, et al. **Am J Hum Genet** 1997 Aug;61(2):295-303

Nonimmune fetal hydrops and placentomegaly: diagnosis of familial Wiedemann-Beckwith syndrome with trisomy 11p15 using FISH. Drut RM, et al. **Am J Med Genet** 1996 Mar 15;62(2):145-9

Reduced expression of the cyclin-dependent kinase inhibitor gene p57KIP2 in Wilms' tumor. Thompson JS, et al. **Cancer Res** 1996 Dec 15;56(24):5723-7

Detection of an EcoRI restriction fragment length polymorphism in the gene encoding the human TBP associated factor II 30 (TAF(II)30). Chéhensse V, et al. **Clin Genet** 1997 Apr;51(4):288-9

Acromegalic pregnancy associated with a Beckwith-Wiedemann fetus. Luton D, et al. **Fetal Diagn Ther** 1996 Mar-Apr;11(2):154-8

Imprinting mutation in the Beckwith-Wiedemann syndrome leads to biallelic IGF2 expression through an H19-independent pathway. Brown KW, et al. **Hum Mol Genet** 1996 Dec;5(12):2027-32

A novel human homologue of yeast nucleosome assembly protein, 65 kb centromeric to the p57KIP2 gene, is biallelically expressed in fetal and adult tissues. Hu RJ, et al. **Hum Mol Genet** 1996 Nov;5(11):1743-8

Epigenetic modification and uniparental inheritance of H19 in Beckwith-Wiedemann syndrome. Catchpoole D, et al. **J Med Genet** 1997 May;34(5):353-9

Genomic imprinting and its relevance to genetic diseases. Niikawa N. **Jpn J Hum Genet** 1996 Dec;41(4):351-61 (32 ref.)

Cloning of candidate genes involved in the Beckwith-Wiedemann syndrome and childhood tumors. Alders M, et al. **Med Pediatr Oncol** 1996 Nov;27(5):495-7

Positional cloning of genes involved in the Beckwith-Wiedemann syndrome, hemihypertrophy, and associated childhood tumors. Mannens M, et al. **Med Pediatr Oncol** 1996 Nov;27(5):490-4 (9 ref.)

The Beckwith-Wiedemann syndrome phenotype and the risk of cancer. Schneid H, et al. **Med Pediatr Oncol** 1997 Jun; 28(6):411-5

Molecular biology of Beckwith-Wiedemann syndrome. Weksberg R, et al. **Med Pediatr Oncol** 1996 Nov; 27(5):462-9 (65 ref.)

Beck-Wiedemann syndrome and Wilms' tumour. Ward A. **Mol Hum Reprod** 1997 Feb;3(2):157-68 (184 ref.)

An imprinted gene p57KIP2 is mutated in Beckwith-Wiedemann syndrome [see comments] Hatada I, et al. **Nat Genet** 1996 Oct;14(2):171-3. Comment in: Nat Genet 1996 Oct;14(2):119-21.

Human KVLQT1 gene shows tissue-specific imprinting and encompasses Beckwith-Wiedemann syndrome chromosomal rearrangements [see comments] Lee MP, et al. **Nat Genet** 1997 Feb;15(2):181-5. Comment in: Nat Genet 1997 Feb;15(2):113-5.

KVLQT1, the rhythm of imprinting [news; comment] Mannens M, et al. **Nat Genet** 1997 Feb;15(2):113-5. Comment on: Nat Genet 1997 Feb;15(2):181-5. Comment on: Nat Genet 1997 Feb;15(2):186-9.

Altered cell differentiation and proliferation in mice lacking p57KIP2 indicates a role in Beckwith-Wiedemann syndrome. Zhang P, et al. **Nature** 1997 May 8; 387(6629):151-8

Imprinting in clusters: lessons from Beckwith-Wiedemann syndrome [see comments] Reik W, et al. **Trends Genet** 1997 Aug;13(8):330-4 (52 ref.). Comment in: Trends Genet 1997 Aug;13(8):293-5.

PATHOLOGY

Bone invasion by a recurrent digital fibroma of infancy in a child with Beckwith-Wiedemann syndrome. Craver RD, et al. **Pediatr Pathol Lab Med** 1995 Jan-Feb;15(1):147-51

PHYSIOPATHOLOGY

Is intensive follow-up for early detection of tumors effective in children with Beckwith-Wiedemann syndrome? Di Cataldo A, et al. **Clin Genet** 1996 Nov;50(5):372-4

PREVENTION & CONTROL

[The Wiedemann-Beckwith syndrome. Its natural history and levels of prevention] Martínez y Martínez R, et al. **Gac Med Mex** 1997 May-Jun;133(3):195-202 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Prenatal diagnosis of Beckwith-Wiedemann syndrome. Harker CP, et al. **AJR Am J Roentgenol** 1997 Feb; 168(2):520-2

Intrauterine growth and ultrasound findings in fetuses with Beckwith-Wiedemann syndrome. Ranzini AC, et al. **Obstet Gynecol** 1997 Apr;89(4):538-42

Prenatal detection of a congenital pancreatic cyst and Beckwith-Wiedemann syndrome. Fremond B, et al. **Prenat Diagn** 1997 Mar;17(3):276-80

BECLOMETHASONE

ADMINISTRATION & DOSAGE

The effects of combined intravenous and inhaled steroids (beclomethasone dipropionate) for the emergency treatment of acute asthma. The Asthma ED Study Group. Guttman A, et al. **Acad Emerg Med** 1997 Feb;4(2):100-6

Growth of asthmatic children is slower during than before treatment with inhaled glucocorticoids. Saha MT, et al. **Acta Paediatr** 1997 Feb;86(2):138-42

Systemic effects of two nasally administered glucocorticosteroids. Wihl JA, et al. **Allergy** 1997 Jun; 52(6):620-6

Beclomethasone dipropionate administration via cecostomy in ulcerative colitis. Matake H, et al. **Am J Gastroenterol** 1997 Aug;92(8):1384-5

Leukotriene antagonist prevents exacerbation of asthma during reduction of high-dose inhaled corticosteroid. The Tokyo Joshi-Idai Asthma Research Group. Tamaoki J, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1235-40

A comparison of the effects of oral prednisone and inhaled beclomethasone dipropionate on circulating leukocytes. Cameron RG, et al. **Aust N Z J Med** 1996 Dec;26(6):800-5

A comparison of double-strength beclomethasone dipropionate (84 microg) MDI with beclomethasone dipropionate (42 microg) MDI in the treatment of asthma [see comments] Nathan RA, et al. **Chest** 1997 Jul; 112(1):34-9. Comment in: Chest 1997 Jul;112(1):3-5.

Pulmonary delivery of beclomethasone liposome aerosol in volunteers. Tolerance and safety. Waldrep JC, et al. **Chest** 1997 Feb;111(2):316-23

A comparison of the effects of oral cetirizine and inhaled beclomethasone on early and late asthmatic responses to allergen and the associated increase in airways hyperresponsiveness. Bentley AM, et al. **Clin Exp Allergy** 1996 Aug;26(8):909-17

A placebo controlled study comparing the efficacy of intranasal azelastine and beclomethasone in the treatment of seasonal allergic rhinitis. Newson-Smith G, et al. **Eur Arch Otorhinolaryngol** 1997;254(5):236-41

Effect of inhaled beclomethasone dipropionate on isocapnic hyperventilation with cold air in asthmatics, measured with forced oscillation technique. Pennings HJ, et al. **Eur Respir J** 1997 Mar;10(3):665-71

Health beliefs of adults with asthma: toward an understanding of the difference between symptomatic and preventive use of inhaler treatment. Hand CH, et al. **J Asthma** 1996; 33(5):331-8

A trial of the safety of inhaled beclomethasone in ventilator-treated neonates. Liu EA, et al. **J Pediatr** 1996 Jul;129(1):154-6

The effects of inhaled glucocorticoids on bone mass and biochemical markers of bone homeostasis: a 1-year study of beclomethasone versus budesonide. Struijs A, et al. **Neth J Med** 1997 Jun;50(6):233-7

Differential inhibitory effect of regular inhaled corticosteroid on airway responsiveness to adenosine 5' monophosphate, methacholine, and bradykinin in symptomatic children with recurrent wheeze. Doull IJ, et al. **Pediatr Pulmonol** 1997 Jun;23(6):404-11

Nebulization of NanoCrystals: production of a respirable solid-in-liquid-in-air colloidal dispersion. Wiedmann TS, et al. **Pharm Res** 1997 Jan;14(1):112-6

Hospitalization of adults for asthma and inhaled corticosteroid use in an island population. Cacciottolo JM, et al. **Respir Med** 1997 Aug;91(7):411-6

Fluticasone propionate 1 mg daily and beclomethasone dipropionate 2 mg daily: a comparison over 1 yr. Lorentzen KA, et al. **Respir Med** 1996 Nov;90(10):609-17

[Budesonide and beclamethasone dipropionate inhalation powders. The effect on bone and collagen turnover in children] Birkebaek NH, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2559-62 (Eng. Abstr.) **(Dan)**

[Bronchopulmonary dysplasia. Retrospective analysis of various forms of treatment and development of a staged therapeutic plan] Bauer J, et al. **Klin Padiatr** 1996 Mar-Apr; 208(2):56-60 (Eng. Abstr.) **(Ger)**

[Effect of long-term treatment with an inhaled corticosteroid on bronchial hyper-responsiveness and clinical asthma in asthmatic subjects] Ikuta N, et al. **Arerugi** 1996 Dec; 45(12):1231-6 (Eng. Abstr.) **(Jpn)**

[High-dose inhaled beclomethasone in long-term management of chronic severe asthma--usefulness and dose-dependence] Kudo K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):536-44 (Eng. Abstr.) **(Jpn)**

[High-dose inhaled beclomethasone dipropionate and maximal improvements in patients with stable chronic obstructive pulmonary disease] Zhang M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1386-1391 (Eng. Abstr.) **(Jpn)**

[Inhaled corticosteroid therapy in long-term management of adult asthma] Imai T, et al. **Nippon Rinsho** 1996 Nov; 54(11):2969-75 (28 ref.) (Eng. Abstr.) **(Jpn)**

[Problems of inhaled steroid therapy in children with asthma] Inoue T, et al. **Nippon Rinsho** 1996 Nov;54(11):2987-92 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Inhaled corticosteroid in out-patient management of asthma] Ishihara K. **Nippon Rinsho** 1996 Nov;54(11):2976-81 (26 ref.) (Eng. Abstr.) **(Jpn)**

[Bronchial asthma as an inflammation and the use of inhaled steroid] Kaneko F, et al. **Nippon Rinsho** 1996 Nov; 54(11):2962-8 (18 ref.) (Eng. Abstr.) **(Jpn)**

[High dose inhaled steroid therapy--usefulness and limitation] Kudo K. **Nippon Rinsho** 1996 Nov;54(11):2993-7 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Effects of reducing or stopping inhaled beclomethasone dipropionate on airway hyperresponsiveness in stable chronic asthma] Tsukino M, et al. **Nippon Rinsho** 1996 Nov; 54(11):2982-6 (Eng. Abstr.) **(Jpn)**

[The clinical usefulness of the combined use of inhaled beta 2-agonist and inhaled steroid in asthma] Yamamoto C, et al. **Nippon Rinsho** 1996 Nov;54(11):3087-92 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Effects of becotide and becodisk glucocorticoid drugs on bronchial reactivity in patients with bronchial asthma] Pol'ner SA. **Klin Med (Mosk)** 1997;75(6):44-6 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Growth of asthmatic children is slower during than before treatment with inhaled glucocorticoids. Saha MT, et al. **Acta Paediatr** 1997 Feb;86(2):138-42

Systemic effects of two nasally administered glucocorticosteroids. Wihl JA, et al. **Allergy** 1997 Jun; 52(6):620-6

Medication-induced psychotic reaction [letter] Türktaş L, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1017-8

Lysine-vasopressin in the evaluation of the hypothalamic-pituitary-adrenal axis in children with allergic rhinitis treated with intranasal beclomethasone dipropionate or oral prednisone. Kokron CM, et al. **J Investig Allergol Clin Immunol** 1997 Jan-Feb;7(1):51-6

Knemometry, urine cortisol excretion, and measures of the insulin-like growth factor axis and collagen turnover in children treated with inhaled glucocorticosteroids. Wolthers OD, et al. **Pediatr Res** 1997 Jan;41(1):44-50

Osteoporotic vertebral fractures in a man under high-dose inhaled glucocorticoid therapy. A case-report with a review of the literature. Laroche M, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):267-70 (16 ref.)

[Concerns about adverse effects of inhaled corticosteroids] Matsumoto H, et al. **Nippon Rinsho** 1996 Nov; 54(11):2998-3003 (30 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

Metered-dose inhalers, I: Drug content and particle size distribution of beclomethasone dipropionate. LeBelle M, et al. **J Pharm Biomed Anal** 1996 May;14(7):793-800

PHARMACOLOGY

Effects of corticosteroid therapy in non-allergic rhinosinusitis. Mygind N. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):164-6 (25 ref.)

Influence of high dose inhaled steroids on hypothalamo-pituitary-adrenal axis function in Japanese patients with asthma: a comparison over the course of time [published erratum appears in Intern Med 1996 Aug;35(8):674] Hasegawa T, et al. **Intern Med** 1996 May; 35(5):362-6

A methodological assessment of diurnal variability of peak flow as a basis for comparing different inhaled steroid formulations. Toogood JH, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):555-62

Measuring systemic effects of inhaled beclomethasone [letter; comment] Jolobe O. **Thorax** 1996 Sep;51(9):968. Comment on: Thorax 1995 Dec;50(12):1280-4.

Effect of inhaled glucocorticoids on IL-1 beta and IL-1 receptor antagonist (IL-1 ra) expression in asthmatic bronchial epithelium. Sousa AR, et al. **Thorax** 1997 May; 52(5):407-10

[Effect of inhaled corticosteroids on serum eosinophil cationic protein and sIL-2R levels in asthmatics pulmonary hypertension] Wang H, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):306-8, 319 (Eng. Abstr.) **(Chi)**

[A comparison of the pharmacological actions between DSCG (disodium cromoglycate) and BDP (beclomethasone dipropionate) in the treatment of bronchial asthma] Shida T. **Nippon Rinsho** 1996 Nov; 54(11):3011-6 (17 ref.) (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Effects of corticosteroid therapy in non-allergic rhinosinusitis. Mygind N. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):164-6 (25 ref.)

Effects of immunotherapy on symptoms, PEFR, spirometry, and airway responsiveness in patients with allergic asthma to house-dust mites (D. pteronyssinus) on inhaled steroid therapy. Costa JC, et al. **Allergy** 1996 Apr;51(4):238-44

Once-daily mometasone furoate aqueous nasal spray (Nasonex) in seasonal allergic rhinitis: an active- and placebo-controlled study. Hebert JR, et al. **Allergy** 1996 Aug;51(8):569-76

Serum eosinophil cationic protein (ECP) as a marker of disease activity and treatment efficacy in seasonal asthma. Vatrella A, et al. **Allergy** 1996 Aug;51(8):547-55

Treatment of idiopathic lymphocytic enterocolitis with oral beclomethasone dipropionate. Rai RM, et al. **Am J Gastroenterol** 1997 Jan;92(1):147-9

Prevalence of inhaled corticosteroid use among patients with chronic obstructive pulmonary disease: a survey. Jackevicius CA, et al. **Ann Pharmacother** 1997 Feb; 31(2):160-4

Ragweed allergic rhinitis and the paranasal sinuses. A computed tomographic study. Naclerio RM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):193-6

Equivalence of asthma control with new CFC-free formulation HFA-134a beclomethasone dipropionate and CFC-beclomethasone dipropionate [published erratum appears in Br J Clin Pract 1997 Mar;51(2):124] Dahl R, et al. **Br J Clin Pract** 1997 Jan-Feb;51(1):11-5

A comparison of the effects of oral cetirizine and inhaled beclomethasone on early and late asthmatic responses to allergen and the associated increase in airways hyperresponsiveness. Bentley AM, et al. **Clin Exp Allergy** 1996 Aug;26(8):909-17

Chronic sinusitis refractory to standard management in patients with humoral immunodeficiencies. Buehring I, et al. **Clin Exp Immunol** 1997 Sep;109(3):468-72

Effect of topical beclomethasone on histamine-induced increases in nasal airflow resistance and secretion in perennial rhinitis. Studham JM, et al. **Clin Otolaryngol** 1993 Aug;18(4):285-90

Clinical review of once-daily beclomethasone dipropionate for seasonal allergic rhinitis. Chervinsky P. **Clin Ther** 1996 Sep-Oct;18(5):790-6; discussion 789 (22 ref.)

Beclomethasone dipropionate (3 mg) versus 5-aminosalicylic acid (2 g) versus the combination of both (3 mg/2 g) as retention enemas in active ulcerative proctitis. Mulder CJ, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):549-53

Effect of addition of inhaled salmeterol to the treatment of moderate-to-severe asthmatics uncontrolled on high-dose inhaled steroids. European Respiratory Study Group. Faurschou P, et al. **Eur Respir J** 1996 Sep;9(9):1885-90

Anti-inflammatory effects of inhaled beclomethasone dipropionate in nonatopic asthmatics. Hoshino M, et al. **Eur Respir J** 1996 Apr;9(4):696-702

No significant effect of age of onset on response to anti-asthmatic medications in adult asthmatics. Oosaki R, et al. **In Vivo** 1996 May-Jun;10(3):377-82

Retention of asthmatic patients in a longitudinal clinical trial. Bender BG, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):197-203

Inhaled beclomethasone dipropionate downregulates CD4 and CD8 T-lymphocyte activation in peripheral blood of patients with asthma. Majori M, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):379-82

Short-term regular beta 2-adrenergic agonists treatment is safe in mild asthmatics taking low doses of inhaled steroids. Ganassini A, et al. **J Asthma** 1997;34(1):61-6

Nasal inflammation and chronic ear disease in Australian Aboriginal children. Gibson PG, et al. **J Paediatr Child Health** 1996 Apr;32(2):143-7

Inhaled beclomethasone dipropionate (BDP) prevents seasonal changes in atopic asthmatics. Ponticiello A, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):112-7

Tolerance to the bronchoprotective effect of salmeterol in adolescents with exercise-induced asthma using concurrent inhaled glucocorticoid treatment [see comments] Simons FE, et al. **Pediatrics** 1997 May;99(5):655-9. Comment in: Pediatrics 1997 May;99(5):729-30.

The treatment of allergic rhinitis improves the recovery from asthma and upper respiratory infections. Sarti W, et al. **Rev Paul Med** 1995 Sep-Oct;113(5):968-72

[Corticosteroid therapy in the prevention of recurrent post-surgical nasal polyposis] Cassano P, et al. **Acta Otorhinolaryngol Ital** 1996 Aug;16(4):334-8 (Eng. Abstr.) **(Ita)**

BECLOMETHASONE DIPROPIONATE see **BECLOMETHASONE**

BED CAPACITY, HOSPITAL see **HOSPITAL BED CAPACITY**

BED OCCUPANCY

see related

HOSPITAL BED CAPACITY

Shortage of psychiatric beds exists in Staffordshire too [letter; comment] Hodgson RE, et al. **BMJ** 1996 Oct 26; 313(7064):1083. Comment on: BMJ 1996 Jul 20;313(7050):166.

Bed shortages. Regional intensive care unit transfer teams are needed [letter] [see comments] Wallace PG, et al. **BMJ** 1997 Feb 1;314(7077):369. Comment in: BMJ 1997 May 3;314(7090):1351.

Bed shortages. Hospitals need support for coping with emergency work. Wardrope J. **BMJ** 1997 Feb 1; 314(7077):369

How many psychiatric beds: towards a needs based portfolio of residential care. Harrison G. **Epidemiol Psichiatr Soc** 1997 Jan-Apr;6(1 Suppl):49-57

Acute psychiatric bed availability [letter] MacDonald J, et al. **N Z Med J** 1997 May 23;110(1044):196

Emergency medical admissions to hospital--the influence of supply factors. Round A. **Public Health** 1997 Jul; 111(4):221-4

[Variation in reporting of available places in the neonatal intensive care units and consequences for efficiency, fairness and quality of care] Meiland FJ, et al. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2618-21 (Eng. Abstr.) **(Dut)**

STANDARDS

[The methodological aspects in determining standards in the demand for surgical beds] Bobil BV, et al. **Voen Med Zh** 1997 May;318(5):4-10 **(Rus)**

STATISTICS & NUMERICAL DATA

Survey of occupancy of paediatric intensive care units by children who are dependent on ventilators. Fraser J, et al. **BMJ** 1997 Aug 9;315(7104):347-8

Relation between bed use, social deprivation, and overall bed availability in acute adult psychiatric units, and alternative residential options: a cross sectional survey, one day census data, and staff interviews [see comments] Shepherd G, et al. **BMJ** 1997 Jan 25;314(7076):262-6. Comment in: BMJ 1997 Jan 25;314(7076):246. Comment in: BMJ 1997 Apr 26;314(7089):1278; discussion 1279. Comment in: BMJ 1997 Apr 26;314(7089):1278-9. Comment in: BMJ 1997 Apr 26;314(7089):1279-80.

New long-stay patients on acute psychiatric units: does audit change practice? Rowlands P. **Br J Clin Pract** 1997 Apr-May;51(3):154-6

The Nottingham Acute Bed Study: alternatives to acute psychiatric care. Beck A, et al. **Br J Psychiatry** 1997 Mar; 170:247-52

A decision support system for bed-occupancy management and planning hospitals. McClean S, et al. **IMA J Math Appl Med Biol** 1995 Sep-Dec;12(3-4):249-57

Patients' perception of quality hospital care and hospital occupancy: are there biases associated with assessing quality care based on patients' perceptions? Boscarino JA. **Int J Qual Health Care** 1996 Oct;8(5):467-77

Use of acute psychiatric beds: a point prevalence survey in North and South Thames regions. Fulop NJ, et al. **J Public Health Med** 1996 Jun;18(2):207-16

Do community hospitals reduce the use of district general hospital inpatient beds? Hine C, et al. **J R Soc Med** 1996 Dec;89(12):681-7

[The influence of empty-bed days on the median hospital stay in internal medicine] Alonso Martínez JL, et al. **An Med Interna** 1997 Apr;14(4):179-83 (Eng. Abstr.) **(Spa)**

TRENDS

Taking issue with a 'heretical hypothesis' [letter; comment] Deane RT, et al. **Health Aff (Millwood)** 1996 Winter; 15(4):213-5; discussion 216-20. Comment on: Health Aff (Millwood) 1996 Summer;15(2):145-54.

Management. Bed news is bad news [news] **Hosp Health Netw** 1997 Jul 20;71(14):15

UTILIZATION

Drug abusers in Danish mental hospitals. Hansen SS. **Addiction** 1997 Apr;92(4):429-35

[The periods of actual bed occupancy per year and the length of stay of surgical patients in the hospital] Lobanov GP, et al. **Voen Med Zh** 1996 Dec;317(12):7-10, 80 (Eng. Abstr.) **(Rus)**

BED REST

Femoral complications and bed rest duration after coronary arteriography. Lim R, et al. **Am J Cardiol** 1997 Jul 15; 80(2):222-3

Reducing time in bed after cardiac catheterization (TIBS II) [see comments] Keeling A, et al. **Am J Crit Care** 1996 Jul; 5(4):277-81. Comment in: Am J Crit Care 1996 Nov;5(6):462.

Prolonged bed rest decreases skeletal muscle and whole body protein synthesis. Ferrando AA, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E627-33

Changes in spine height throughout 32 hours of bedrest. McGill SM, et al. **Arch Phys Med Rehabil** 1996 Oct; 77(10):1071-3

Effects of exercise during head-down bed rest on postural control. Davis JE, et al. **Aviat Space Environ Med** 1997 May;68(5):392-5

Urinary and plasma calcium changes in endurance trained volunteers during exposure to acute and rigorous bed rest conditions. Zorbas YG, et al. **Biol Trace Elem Res** 1996 Jul;54(1):75-86

Safety of decreasing bedrest after coronary angiography [see comments] Baum RA, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):230-3. Comment in: Cathet Cardiovasc Diagn 1996 Nov;39(3):234-5.

How low can you go? [editorial; comment] Hicks K, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):234-5. Comment on: Cathet Cardiovasc Diagn 1996 Nov;39(3):230-3.

The difference between activity when in bed and out of bed. I. Healthy subjects and selected patients. Minors D, et al. **Chronobiol Int** 1996 May;13(1):27-34

The difference between activity when in bed and out of bed. II. Subjects on 27-hour "days". Minors D, et al. **Chronobiol Int** 1996 Aug;13(3):179-90

Site of insulin resistance after surgery: the contribution of hypocaloric nutrition and bed rest. Nygren J, et al. **Clin Sci (Colch)** 1997 Aug;93(2):137-46

Diurnal rhythms of plasma renin activity, atrial natriuretic peptide and arterial pressure during head-down bed rest in humans. Gauquelin G, et al. **Eur J Appl Physiol** 1996; 73(6):536-43

Comparison of a 4-day confinement and head-down tilt on endocrine response and cardiovascular variability in humans. Sigaudo D, et al. **Eur J Appl Physiol** 1996; 73(1-2):28-37

Fathers' experience of their partners' antepartum bed rest. Maloni JA, et al. **Image J Nurs Sch** 1997;29(2):183-8

Prolongation of pregnancy in multiple pregnancy. al-Najashi SS, et al. **Int J Gynaecol Obstet** 1996 Aug;54(2):131-5

Antioxidative enzymes activities and lipid peroxidation indicators in blood platelets during bed rest. Kędziora J, et al. **Int J Occup Med Environ Health** 1996;9(1):45-51

Medical management of selected patients with left ventricular free wall rupture during acute myocardial infarction. Figueras J, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):512-8

Resistance exercise maintains skeletal muscle protein synthesis during bed rest. Ferrando AA, et al. **J Appl Physiol** 1997 Mar;82(3):807-10

Changes in leg vein filling and emptying characteristics and leg volumes during long-term head-down bed rest. Louisy F, et al. **J Appl Physiol** 1997 Jun;82(6):1726-33

Acid monoamine metabolites in the CSF of healthy controls punctured without preceding strict bedrest: a retrospective study. Nordin C, et al. **J Psychiatr Res** 1996 Mar-Apr; 30(2):127-33

Upright exercise or supine lower body negative pressure exercise maintains exercise responses after bed rest. Lee SM, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):892-900

Serum urate and cholesterol levels in endurance trained volunteers during acute and rigorous bed rest conditions. Zorbas YG, et al. **Panminerva Med** 1996 Dec;38(4):223-8

[Serum sodium imbalance in the bedridden elderly. Part One: Realities and problem of management] Sasaki A, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jun;33(6):440-3 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Submaximal exercise VO2 and Qc during 30-day 6 degrees head-down bed rest with isotonic and isokinetic exercise training. Greenleaf JE, et al. **Aviat Space Environ Med** 1996 Apr;67(4):314-9

Cardiovascular and hormonal changes induced by a simulation of a lunar mission. Pavy-Le Traon A, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):829-37

BED REST

Cardiac atrophy after bed-rest deconditioning: a nonneural mechanism for orthostatic intolerance. Levine BD, et al. **Circulation** 1997 Jul 15;96(2):517–25

The science of turning [editorial; comment] deBoisblanc BP. **Crit Care Med** 1997 Sep;25(9):1456–7 (13 ref.). Comment on: Crit Care Med 1997 Sep;25(9):1560–4.

The interplay of central and peripheral factors in limiting maximal O2 consumption in man after prolonged bed rest. Ferretti G, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):677–86

Changes in musculoskeletal structure and function with prolonged bed rest. Bloomfield SA.
Med Sci Sports Exerc 1997 Feb;29(2):197–206 (65 ref.)

An overview of the issues: physiological effects of bed rest and restricted physical activity. Convertino VA, et al.
Med Sci Sports Exerc 1997 Feb;29(2):187–90

Cardiovascular consequences of bed rest: effect on maximal oxygen uptake. Convertino VA. **Med Sci Sports Exerc** 1997 Feb;29(2):191–6

Intensive exercise training during bed rest attenuates deconditioning. Greenleaf JE. **Med Sci Sports Exerc** 1997 Feb;29(2):207–15

[The immobilization syndrome] Dénes Z. **Orv Hetil** 1996 Aug 11;137(32):1739–43 (36 ref.) (Eng. Abstr.) **(Hun)**

METHODS

[The effect of head-down tilt bed rest on metabolism of erythrocytes and functional state of membranes in females] Ivanova SM, et al. **Aviakosm Ekolog Med** 1997;31(1):58–62 (Eng. Abstr.) **(Rus)**

[120-day head-down tilted bedrest study with participation of female subjects: tasks and protocols of the studies] Morukov BV, et al. **Aviakosm Ekolog Med** 1997;31(1):40–7 (Eng. Abstr.) **(Rus)**

NURSING

The science of turning [editorial; comment] deBoisblanc BP. **Crit Care Med** 1997 Sep;25(9):1456–7 (13 ref.). Comment on: Crit Care Med 1997 Sep;25(9):1560–4.

PSYCHOLOGY

Women's experience of bed rest in high-risk pregnancy [see comments] Schroeder CA. **Image J Nurs Sch** 1996 Fall; 28(3):253–8. Comment in: Image J Nurs Sch 1997 Spring;29(1):8.

Bed rest from the perspective of the high-risk pregnant woman. Gupton A, et al.
J Obstet Gynecol Neonatal Nurs 1997 Jul-Aug;26(4):423–30

BED SIZE, HOSPITAL see **HOSPITAL BED CAPACITY**

BEDDING AND LINENS

The effects of a neonatal positioner on scapular rotation. Monfort K, et al. **Am J Occup Ther** 1997 May;51(5):378–84

Draping of the pelvis and proximal femur: an improved method for applying self-adherent plastic drapes. Reid JS, et al. **Am J Orthop** 1997 Mar;26(3):229, 232–3

Effects of two kinds of pillow on thermoregulatory responses during night sleep. Kawabata A, et al. **Appl Human Sci** 1996 Jul;15(4):155–9

Cervical pain: a comparison of three pillows. Lavin RA, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):193–8

Increased house dust mite allergen in synthetic pillows may explain increased wheezing [letter] Crane J, et al. **BMJ** 1997 Jun 14;314(7096):1763–4

House dust mite allergen in pillows [see comments] Kemp TJ, et al. **BMJ** 1996 Oct 12;313(7062):916. Comment in: BMJ 1997 Feb 15;314(7079):518.

Reduced risk of wheezing in children using feather pillows is confirmed [letter; comment] Strachan D, et al. **BMJ** 1997 Feb 15;314(7079):518. Comment on: BMJ 1996 Oct 12;313(7062):916.

Can house dust mite-triggered atopic dermatitis be alleviated using acaricides? Cameron MM. **Br J Dermatol** 1997 Jul; 137(1):1–8 (93 ref.)

Sustainability of pyrethroid-impregnated bednets for malaria control in Afghan communities. Rowland M, et al.
Bull World Health Organ 1997;75(1):23–9

Full body forced air warming: commercial blanket vs air delivery beneath bed sheets. Kempen PM.
Can J Anaesth 1996 Nov;43(11):1168–74

Effects of Microstop-treated anti-mite bedding on children with mite-sensitive asthma. Chen CC, et al.
Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih 1996 Nov-Dec;37(6):420–7

Beds, bedrooms, bedding, and bugs: anything new between the sheets? [editorial; comment] Siebers RW, et al.
Clin Exp Allergy 1996 Nov;26(11):1225–7. Comment on: Clin Exp Allergy 1996 Nov;26(11):1243–5. Comment on: Clin Exp Allergy 1996 Nov;26(11):1246–52.

Field trial of permethrin impregnated sisal curtains in malaria control in western Kenya. Oloo A, et al.
East Afr Med J 1996 Nov;73(11):735–40

Effect of a bed covering system in children with asthma and house dust mite hypersensitivity. Frederick JM, et al.
Eur Respir J 1997 Feb;10(2):361–6

Allergen reduction measures in houses of allergic asthmatic patients: effects of air-cleaners and allergen-impermeable mattress covers [see comments] van der Heide S, et al. **Eur Respir J** 1997 Jun;10(6):1217–23. Comment in: Eur Respir J 1997 Jun;10(6):1203–4.

Largest trials ever show mosquito nets could save 500,000 African children a year—at very low cost [news]
J Commun Dis 1996 Jun;28(2):148–50

Comparison of different insecticides and fabrics for anti-mosquito bednets and curtains. Curtis CF, et al.
Med Vet Entomol 1996 Jan;10(1):1–11

Permethrin-impregnated bednets are more effective than DDT house-spraying to control malaria in Solomon Islands. Kere NK, et al. **Med Vet Entomol** 1996 Apr; 10(2):145–8

The impact of permethrin-impregnated bednets on malaria vectors of the Kenyan coast. Mbogo CN, et al.
Med Vet Entomol 1996 Jul;10(3):251–9

Distribution and density of house dust mites Dermatophagoides spp. (Acarina:Pyroglypidae) in the mattresses of two areas of Rome, Italy. Bigliocchi F, et al. **Parassitologia** 1996 Dec;38(3):543–6

Are bedding and rebreathing suffocation a cause of SIDS? Guntheroth WG, et al. **Pediatr Pulmonol** 1996 Dec; 22(6):335–41 (68 ref.)

A study of deltamethrin impregnated mosquito bed nets in a malaria endemic area of the Brazilian amazon. Santos JB. **Rev Soc Bras Med Trop** 1996 Sep-Oct;29(5):513–4 **(Eng, Por)**

Insecticide impregnated cotton fabrics of different hydrophobicity against Aedes aegypti (Diptera:Culicidae). Amalraj DD, et al.
Southeast Asian J Trop Med Public Health 1996 Sep; 27(3):617–21

The effect of pyrethroid impregnated mosquito nets on field malaria vector populations in experimental huts and in individual local houses. Prasittisuk M, et al.
Southeast Asian J Trop Med Public Health 1996 Sep; 27(3):610–6

The home environment and asthma symptoms in childhood: two population based case-control studies 13 years apart. Butland BK, et al. **Thorax** 1997 Jul;52(7):618–24

The impact of a national impregnated bed net programme on the outcome of pregnancy in primigravidae in The Gambia. D'Alessandro U, et al.
Trans R Soc Trop Med Hyg 1996 Sep-Oct;90(5):487–92

Acceptability and use of insecticide impregnated bednets in northern Ghana. Binka FN, et al. **Trop Med Int Health** 1997 May;2(5):499–507

Operational aspects of bednet impregnation for community-based malaria control in Nicaragua, Ecuador, Peru and Colombia. Kroeger A, et al.
Trop Med Int Health 1997 Jun;2(6):589–602

Deltamethrin-impregnated bednets as an operational tool for malaria control in a hyper-endemic region of Burundi: impact on vector population and malaria morbidity. Van Bortel W, et al. **Trop Med Int Health** 1996 Dec;1(6):824–35

Use of nephrostomy drape for nonendoscopic procedures. Wolf JS Jr, et al. **Urology** 1997 Mar;49(3):452–3

Mosquito nets protect children from malaria [news]
World Health Forum 1996;17(4):423–4

[Impact of deltamethrin impregnated mosquito nets on the transmission of malaria in the coastal lagoon area, Benin] Akogbeto PM, et al. **Bull Soc Pathol Exot** 1996;89(4):291–8 (Eng. Abstr.) **(Fre)**

[Encasing evaluation: studies of dust retention and water permeability] Kainka E, et al. **Pneumologie** 1997 Jan; 51(1):2–9 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Dust-mite-allergen concentrations in asthmatics' bedrooms in the Quad Cities (Illinois, USA) after the Mississippi River floods of 1993. Curtis L, et al. **Allergy** 1997 Jun;52(6):642–9

Deaths of infants on polystyrene-filled beanbags. Gilbert-Barness E, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):202–6

Magnetic field characteristics of electric bed-heating devices. Wilson BW, et al. **Bioelectromagnetics** 1996;17(3):174–9

Variability and repeatability of house dust mite allergen measurement: implications for study design and interpretation. Marks GB, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1190–7

Der p I concentrations in mattress surface and floor dust collected from infants' bedrooms. van Strien RT, et al.
Clin Exp Allergy 1995 Dec;25(12):1184–9

A combined approach to reduce mite allergen in the bedroom. Weeks J, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1179–83

Impedance method computation of induced currents in a simple model of a child exposed to electromagnetic fields of an electric blanket. Liu Y, et al. **Health Phys** 1996 Nov; 71(5):676–84

Bundling, a newly identified risk factor for neonatal tetanus: implications for global control. Bennett J, et al.
Int J Epidemiol 1996 Aug;25(4):879–84

Sudden infant death syndrome: insulation from bedding and clothing and its effect modifiers. The National Cot Death Study Group. Williams SM, et al. **Int J Epidemiol** 1996 Apr;25(2):366–75

V-shaped pillows and unsafe infant sleeping. Byard RW, et al. **J Paediatr Child Health** 1997 Apr;33(2):171–3

Comparison of two methods of determining asphyxial potential of infant bedding. Campbell AJ, et al.
J Pediatr 1997 Feb;130(2):245–9

Sudden infant death syndrome: the role of bedding revisited [letter; comment] Kemp JS. **J Pediatr** 1996 Dec; 129(6):946–7. Comment on: J Pediatr 1996 May;128(5 Pt 1):594–6. Comment on: J Pediatr 1996 May;128(5 Pt 1):616–25. Comment on: J Pediatr 1996 May;128(5 Pt 1):626–30.

Waterproof mattress linings and SIDS [letter] Ponsonby AI, et al. **N Z Med J** 1997 Sep 12;110(1051):343–4

ECONOMICS

The Gambian National Impregnated Bednet Programme: evaluation of the 1994 cost recovery trial. Müller O, et al. **Soc Sci Med** 1997 Jun;44(12):1903–9

STANDARDS

Squaring off [letter] Coyne MA. **AORN J** 1996 Jul;64(1):21

Application of deltamethrin-impregnated bednets for mosquito and malaria control in Yunnan, China. Zhang Z, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun;27(2):367–71 (14 ref.)

SUPPLY & DISTRIBUTION

Review: mosquito nets and insecticides for net treatment: a discussion of existing and potential distribution systems in Africa. Lines J. **Trop Med Int Health** 1996 Oct; 1(5):616–32 (54 ref.)

UTILIZATION

Geographical perspectives on bednet use and malaria transmission in The Gambia, West Africa. Thomson M, et al. **Soc Sci Med** 1996 Jul;43(1):101–12

BEDOUINS see **ARABS**

BEDS

The static-charge-sensitive bed in the monitoring of respiration during sleep in infants and young children. Kirjavainen T, et al. **Acta Paediatr** 1996 Oct;85(10):1146–52

Preventing pressure sores in elderly patients: a comparison of seven mattress overlays [letter; comment] Lowthian P. **Age Ageing** 1996 Jul;25(4):334. Comment on: Age Ageing 1995 Jul;24(4):297–302.

Mattresses as a winter refuge for house-dust mite populations. de Boer R, et al. **Allergy** 1997 Mar;52(3):299–305

Does benzyl benzoate prevent colonization of new mattresses by mites? A prospective study. Rebmann H, et al.
Allergy 1996 Dec;51(12):876–82

Minimal forces to move patients. Zelenka JP, et al.
Am J Occup Ther 1996 May;50(5):354–61

Thermal equipment usage patterns in neonatal intensive care units: interunit variability and intraunit consistency. Seguin J, et al. **Am J Perinatol** 1997 May;14(5):267–70

A serendipitous observation regarding restless legs syndrome [letter; comment] McMahon JM. **Arch Intern Med** 1996 Nov 11;156(20):2386, 2390. Comment on: Arch Intern Med 1996 Feb 12;156(3):243–8.

New mattresses: how fast do they become a significant source of exposure to house dust mite allergens? [see comments] Custovic A, et al. **Clin Exp Allergy** 1996 Nov;26(11):1243–5 . Comment in: Clin Exp Allergy 1996 Nov;26(11):1225–7.

Beds, bedrooms, bedding, and bugs: anything new between the sheets? [editorial; comment] Siebers RW, et al.
Clin Exp Allergy 1996 Nov;26(11):1225–7. Comment on: Clin Exp Allergy 1996 Nov;26(11):1243–5. Comment on: Clin Exp Allergy 1996 Nov;26(11):1246–52.

Static-charge-sensitive bed ballistocardiography in cardiovascular monitoring. Lindqvist A, et al.
Clin Physiol 1996 Jan;16(1):23–30

Respiratory challenge induces high frequency spiking on the static charge sensitive bed (SCSB). Kirjavainen T, et al.
Eur Respir J 1996 Sep;9(9):1810–5

Mesh-sided cots—yet another potentially dangerous infant sleeping environment. Byard RW, et al.
Forensic Sci Int 1996 Dec 2;83(2):105–9

Deaths caused by bedrails. Parker K, et al.
J Am Geriatr Soc 1997 Jul;45(7):797–802

Mattresses and sleep for patients with low back pain: a survey of orthopaedic surgeons. Levy H, et al.
J South Orthop Assoc 1996 Fall;5(3):185–7

Malaria vaccine [letter; comment] Bawaskar HS, et al.
Lancet 1996 Nov 16;348(9038):1379. Comment on: Lancet 1996 Sep 14;348(9029):701–7.

Co-sleeping and sudden infant death syndrome [letter] Rushton DI. **Lancet** 1997 Jan 4;349(9044):56–7

A double bed extension [letter] Amesbury B. **Palliat Med** 1996 Oct;10(4):343

Does bed sharing affect the risk of SIDS? American Academy of Pediatrics. Task Force on Infant Positioning and SIDS. **Pediatrics** 1997 Aug;100(2 Pt 1):272

Shear stress measured on beds and wheelchairs. Goosens RH, et al. **Scand J Rehabil Med** 1997 Sep;29(3):131–6

Maternal sleep and arousals during bedsharing with infants. Mosko S, et al. **Sleep** 1997 Feb;20(2):142–50

[Encasing evaluation: studies of dust retention and water permeability] Kainka E, et al. **Pneumologie** 1997 Jan; 51(1):2–9 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Sharp handgrip shafts on Stryker Adel Model 2100 childbearing beds. **Health Devices** 1996 Jan;25(1):41–2

Inhaled mite allergen [letter; comment] Carswell F.

J Allergy Clin Immunol 1997 Feb;99(2):269–70. Comment on: J Allergy Clin Immunol 1996 May;97(5):1040–4.

STANDARDS

The effects of air mattress upon sleep and bed climate. Okamoto K, et al. **Appl Human Sci** 1997 May;16(3):97–102

Mattress replacement or foam overlay? A prospective study on the incidence of pressure ulcers. Vyhlidal SK, et al. **Appl Nurs Res** 1997 Aug;10(3):111–20

Pressure-relieving strategies for preventing and treating pressure sores. Remsburg RE, et al. **Clin Geriatr Med** 1997 Aug;13(3):513–41 (95 ref.)

Effects of continuous bed rotation and prolonged mechanical ventilation on healthy, adult baboons [see comments] Anzueto A, et al. **Crit Care Med** 1997 Sep;25(9):1560–4. Comment in: Crit Care Med 1997 Sep;25(9):1456–7.

Application of kinetics in intensive care management of children with generalized oedema. Smith LJ, et al. **Intensive Care Med** 1996 Sep;22(9):964–7

Bedrail use [letter; comment] Levine JM, et al. **J Am Geriatr Soc** 1997 Jun;45(6):780–1. Comment on: J Am Geriatr Soc 1996 Sep;44(9):1086–8.

SUPPLY & DISTRIBUTION

More intensive care unit beds are needed [letter; comment] Cupples PA, et al. **BMJ** 1997 May 3;314(7090):1351. Comment on: BMJ 1997 Feb 1;314(7077):369.

BEDSIDE COMPUTING see **POINT-OF-CARE SYSTEMS**

BEDSIDE TESTING see **POINT-OF-CARE SYSTEMS**

BEDSORE see **DECUBITUS ULCER**

BEE VENOMS

ADMINISTRATION & DOSAGE

A simple device for deliberate Hymenoptera sting challenge. Goldberg A, et al. **J Allergy Clin Immunol** 1997 Jul; 100(1):139–41

ADVERSE EFFECTS

Safety of Hymenoptera venom rush immunotherapy. Laurent J, et al. **Allergy** 1997 Jan;52(1):94–6

Bee and wasp venom allergy in Turkey. Kalyoncu AF, et al. **Ann Allergy Asthma Immunol** 1997 Apr;78(4):408–12

[Portable emergency kits prescribed for patients allergic to hymenoptera venoms] Wessel F. **Allerg Immunol (Paris)** 1996 Oct;28(8):282–7 (Eng. Abstr.) **(Fre)**

CHEMISTRY

Conformational changes associated with activation of bee venom phospholipase A2. Ahmed T, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1224–31

DIAGNOSTIC USE

Increased specificity of diagnostic tests with recombinant major bee venom allergen phospholipase A2. Müller U, et al. **Clin Exp Allergy** 1997 Aug;27(8):915–20

Sting challenge outcome as a selection criterion for venom immunotherapy [letter] Dubois AE, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):144–6

Response to Lariviere and Melzack, PAIN, 66 (1996) 271–277 [letter] Jurna I. **Pain** 1997 May;71(1):113–4

The bee venom test: a new tonic-pain test. Lariviere WR, et al. **Pain** 1996 Aug;66(2–3):271–7

ENZYMOLOGY

Synergism between mellitin and phospholipase A2 from bee venom: apparent activation by intervesicle exchange of phospholipids. Cajal Y, et al. **Biochemistry** 1997 Apr 1; 36(13):3882–93

Use of an imperfect neutral diluent and outer vesicle layer scooting mode hydrolysis to analyze the interfacial kinetics, inhibition, and substrate preferences of bee venom phospholipase A2. Yu BZ, et al. **Biochemistry** 1997 Apr 1;36(13):3870–81

The murine (H-2k) T-cell epitopes of bee venom phospholipase A2 Lie outside the active site of the enzyme. Implications with respect to a paracrine activation of Th2 cells for an IgE antibody response. Specht C, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):226–30

Localization of structural elements of bee venom phospholipase A2 involved in N-type receptor binding and neurotoxicity. Nicolas JP, et al. **J Biol Chem** 1997 Mar 14;272(11):7173–81

Effects on behaviour and EEG of single chain phospholipases A2 from snake and bee venoms injected into rat brain: search for a functional antagonism. Gandolfo G, et al. **Pharmacol Toxicol** 1996 May;78(5):341–7

Determination of hyaluronidase activity in venoms using capillary electrophoresis. Pattanaargson S, et al. **Toxicon** 1996 Oct;34(10):1107–17

IMMUNOLOGY

Allergen dose dependent cytokine production regulates specific IgE and IgG antibody production. Blaser K. **Adv Exp Med Biol** 1996;409:295–303 (16 ref.)

Insect-venom allergy in Greek adults. Grigoreas C, et al. **Allergy** 1997 Jan;52(1):51–7

Honeybee venom allergy: immunoblot studies in allergic patients after immunotherapy and before sting challenge. Jeep S, et al. **Allergy** 1996 Aug;51(8):540–6

IgE antibodies to Hymenoptera venoms in the serum are common in the general population and are related to indications of atopy. Schäfer T, et al. **Allergy** 1996 Jun; 51(6):372–7

Risk assessment in determining systemic reactivity to honeybee stings in beekeepers. Annila IT, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):473–7

Sensitivity to bee and wasp venoms: association with specific IgE responses to the bee and wasp venom and HLA DRB1 and DPB1. Faux JA, et al. **Clin Exp Allergy** 1997 May; 27(5):578–83

Ultra rush bee venom immunotherapy does not reduce cutaneous weal responses to bee venom and codeine phosphate. Jutel M, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1205–10

Induction and differential regulation of bee venom phospholipase A2-specific human IgE and IgG4 antibodies in vitro requires allergen-specific and nonspecific activation of T and B cells. Akdis CA, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):345–53

Modulation of T-cell response to phospholipase A2 and phospholipase A2-derived peptides by conventional bee venom immunotherapy. Kämmerer R, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):96–103

Is there an indication for desensitization therapy (venom immunotherapy) in a transplanted child with bee venom allergy? What are the risks and chances of success? Ponvert C, et al. **Pediatr Nephrol** 1997 Aug;11(4):530

Humoral immunological response in patients with venom allergy during specific immunotherapy. Szymański W, et al. **Rocz Akad Med Bialymst** 1995;40(2):376–82

PHARMACOLOGY

Bee venom-induced shrinkage of erythrocyte ghosts. Rudenko SV, et al. **Biochemistry (Mosc)** 1997 Jan; 62(1):104–9

Insect venom immunotherapy induces interleukin-10 production and a Th2-to-Th1 shift, and changes surface marker expression in venom-allergic subjects. Bellinghausen I, et al. **Eur J Immunol** 1997 May; 27(5):1131–9

Effects on behaviour and EEG of single chain phospholipases A2 from snake and bee venoms injected into rat brain: search for a functional antagonism. Gandolfo G, et al. **Pharmacol Toxicol** 1996 May;78(5):341–7

[Histamine liberation (or histamine release HR): study of the positivity threshold in hymenoptera venom allergy] Minkhar M, et al. **Allerg Immunol (Paris)** 1996 Nov; 28(9):313–6 (Eng. Abstr.) **(Fre)**

POISONING

Bee stings [letter; comment] Bansal AS. **Lancet** 1996 Sep 28; 348(9031):900. Comment on: Lancet 1996 Aug 3;348(9023):301–2.

Bee stings [letter; comment] Simini B. **Lancet** 1996 Sep 28; 348(9031):900. Comment on: Lancet 1996 Aug 3;348(9023):301–2.

[Renal dysfunction caused by animal poisons (snake venoms, bite and punctured poisoning)] Suda M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):571–3 (16 ref.) **(Jpn)**

THERAPEUTIC USE

Safety of Hymenoptera venom rush immunotherapy. Laurent J, et al. **Allergy** 1997 Jan;52(1):94–6

Practical considerations in venom immunotherapy. Golden DB. **Allergy Asthma Proc** 1997 Mar-Apr;18(2):79–83 (34 ref.)

Influence of bee venom immunotherapy on degranulation and leukotriene generation in human blood basophils [see comments] Jutel M, et al. **Clin Exp Allergy** 1996 Oct; 26(10):1112–8. Comment in: Clin Exp Allergy 1996 Oct;26(10):1101–4.

Ultra rush bee venom immunotherapy does not reduce cutaneous weal responses to bee venom and codeine phosphate. Jutel M, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1205–10

Hymenoptera sting anaphylaxis and urticaria pigmentosa: clinical findings and results of venom immunotherapy in ten patients. Fricker M, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):11–5

Modulation of T-cell response to phospholipase A2 and phospholipase A2-derived peptides by conventional bee venom immunotherapy. Kämmerer R, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):96–103

Epitope-specific T cell tolerance to phospholipase A2 in bee venom immunotherapy and recovery by IL-2 and IL-15 in vitro. Akdis CA, et al. **J Clin Invest** 1996 Oct 1; 98(7):1676–83

TOXICITY

Melittin and phospholipase A2 from bee (Apis mellifera) venom cause necrosis of murine skeletal muscle in vivo. Ownby CL, et al. **Toxicon** 1997 Jan;35(1):67–80

BEER

The effect of ethanol, beer, and wine on histamine release from the dog stomach. Intorre L, et al. **Alcohol** 1996 Nov-Dec;13(6):547–51

The use of nonalcoholic beer as the vehicle for ethanol consumption in rats. Samson HH, et al. **Alcohol** 1996 Jul-Aug;13(4):365–8

Oxidative susceptibility of low-density lipoproteins--influence of regular alcohol use. Croft KD, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):980–4

Traditional beer consumption and the iron status of spouse pairs from a rural community in Zimbabwe. Moyo VM, et al. **Blood** 1997 Mar 15;89(6):2159–66

Forensic examination of a mouse allegedly found in a previously sealed can of milk stout. Williams MC. **Forensic Sci Int** 1996 Oct 25;82(3):211–5

Adolescent counterarguing of TV beer advertisements: evidence for effectiveness of alcohol education and critical viewing discussions. Slater MD, et al. **J Drug Educ** 1996; 26(2):143–58

Moderate beer consumption and the blood coagulation in patients with coronary artery disease. Gorinstein S, et al. **J Intern Med** 1997 Jan;241(1):47–51

Male adolescents' reactions to TV beer advertisements: the effects of sports content and programming context. Slater MD, et al. **J Stud Alcohol** 1996 Jul;57(4):425–33

The cocoyam, Xanthosoma sagittifollium, as a potential raw material source for beer brewing. Onwuka ND, et al. **Plant Foods Hum Nutr** 1996 Jun;49(4):283–93

ADVERSE EFFECTS

Tap (draft) beer and monoamine oxidase inhibitor dietary restrictions. Shulman KI, et al. **Can J Psychiatry** 1997 Apr; 42(3):310–2

Urticaria from beer in 3 patients. Santucci B, et al. **Contact Dermatitis** 1996 May;34(5):368

The relation of alcohol intake to coronary heart disease and all-cause mortality in a beer-drinking population. Keil U, et al. **Epidemiology** 1997 Mar;8(2):150–6

ANALYSIS

Intolerance to sodium metabisulfite in beer. Gall H, et al. **Allergy** 1996 Jul;51(7):516–7

Introduction of high-alcohol beer in Ontario: preliminary observations on its use by underage drinkers. Mann RE, et al. **Can J Public Health** 1997 Mar-Apr;88(2):114–8

Determination of the mycotoxin deoxynivalenol in beer by commercial elisa tests and estimation of the exposure dose from beer for the population in the Czech Republic. Ruprich J, et al. **Cent Eur J Public Health** 1995 Nov; 3(4):224–9

The fate of ochratoxin A during malting and brewing. Baxter ED. **Food Addit Contam** 1996;13 Suppl:23–4

The contribution of azodicarbonamide to ethyl carbamate formation in bread and beer. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):101–8

Mycotoxins transmitted into beer from contaminated grains during brewing. Scott PM. **J AOAC Int** 1996 Jul-Aug; 79(4):875–82 (85 ref.)

Micellar electrokinetic capillary chromatography with laser-induced fluorimetric detection of amines in beer. Preston LM, et al. **J Chromatogr B Biomed Appl** 1997 Jul 18;695(1):175–80

Biogenic amines in Spanish beers: differences among breweries. Izquierdo-Pulido M, et al. **Z Lebensm Unters Forsch** 1996 Dec;203(6):507–11

MICROBIOLOGY

Induction of flocculation in brewing yeasts by change in pH value. Stratford M. **FEMS Microbiol Lett** 1996 Feb 1; 136(1):13–8

Purification and partial characterization of an antigen specific to Lactobacillus brevis strains with beer spoilage activity. Yasui T, et al. **FEMS Microbiol Lett** 1997 Jun 15; 151(2):169–76

Natural occurrence of trichothecenes and zearalenone in Korean and imported beers. Shim WB, et al. **Food Addit Contam** 1997 Jan;14(1):1–5

Specific spoilage organisms in breweries and laboratory media for their detection. Jespersen L, et al. **Int J Food Microbiol** 1996 Nov;33(1):139–55 (75 ref.)

Physiology and development of Pectinatus cerevisiiphilus and Pectinatus frisingensis, two strict anaerobic beer spoilage bacteria. Tholozan JL, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):29–39

Effects of culture conditions on Pectinatus cerevisiiphilus and Pectinatus frisingensis metabolism: a physiological and statistical approach. Tholozan JL, et al. **J Appl Bacteriol** 1996 Apr;80(4):418–24

RADIATION EFFECTS

The transfer of 137Cs from barley to beer. Pröhl G, et al. **Health Phys** 1997 Jan;72(1):111–3

STATISTICS & NUMERICAL DATA

Modernization and geographical diffusion as explanations for regional differences in the consumption of wine and beer in the European Community. Knibbe RA, et al. **Subst Use Misuse** 1996 Sep-Oct;31(11–12):1639–55

BEER

TOXICITY

The effect of ethanol upon early development in mice and rats. XXIII. The effect of indomethacin on beer-induced disturbances of preimplantation development in rats. Fazakas-Todea I, et al. **Rom J Morphol Embryol** 1996 Jan-Jun;42(1-2):33-40

BEES

see related
HONEY
PROPOLIS

Bee and wasp sting reactions in current beekeepers. Annila IT, et al. **Ann Allergy Asthma Immunol** 1996 Nov; 77(5):423-7

Risk assessment in determining systemic reactivity to honeybee stings in beekeepers. Annila IT, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):473-7

Bee and wasp venom allergy in Turkey. Kalyoncu AF, et al. **Ann Allergy Asthma Immunol** 1997 Apr;78(4):408-12

Asthma and anaphylaxis induced by royal jelly. Thien FC, et al. **Clin Exp Allergy** 1996 Feb;26(2):216-22

Contact cheilitis due to beeswax. Lucente P, et al. **Contact Dermatitis** 1996 Oct;35(4):258

Bee-sting granulomas in the skin [letter] Lee CW, et al. **Dermatology** 1996;193(4):355-6

Reversible transmural inferior wall ischemia after honeybee sting. Sanghvi S, et al. **Indian Heart J** 1997 Jan-Feb; 49(1):79-80

Acute renal failure following multiple stings by honeybees. Deshmukh LS, et al. **Indian Pediatr** 1996 Sep;33(9):781-3

Behavioral, neural and cellular components underlying olfactory learning in the honeybee. Menzel R, et al. **J Physiol Paris** 1996;90(5-6):395-8 (36 ref.)

Bee stings [letter; comment] Bansal AS. **Lancet** 1996 Sep 28; 348(9031):900. Comment on: Lancet 1996 Aug 3;348(9023):301-2.

Bee stings [letter; comment] Simini B. **Lancet** 1996 Sep 28; 348(9031):900. Comment on: Lancet 1996 Aug 3;348(9023):301-2.

Not a "bee-zoar," but a wasp [letter; comment] Hale LP. **N Engl J Med** 1997 Aug 21;337(8):575; discussion 576. Comment on: N Engl J Med 1997 Jun 12;336(24):1763-4.

A gastric "bee-zoar" [letter] [see comments] Lynch JP, et al. **N Engl J Med** 1997 Jun 12;336(24):1763-4. Comment in: N Engl J Med 1997 Aug 21;337(8):575; discussion 576.

Not a "bee-zoar," but a wasp [letter; comment] Sobonya RE, et al. **N Engl J Med** 1997 Aug 21;337(8):575; discussion 576. Comment on: N Engl J Med 1997 Jun 12;336(24):1763-4.

Olfactory conditioning in the honey bee, Apis mellifera: effects of odor intensity. Bhagavan S, et al. **Physiol Behav** 1997 Jan;61(1):107-17

Case reports and mini review of bee stings of the cornea. Chuah G, et al. **Singapore Med J** 1996 Aug;37(4):389-91 (12 ref.)

[Portable emergency kits prescribed for patients allergic to hymenoptera venoms] Wessel F. **Allerg Immunol (Paris)** 1996 Oct;28(8):282-7 (Eng. Abstr.) **(Fre)**

[Myocardial infarction following a bee sting. Apropos of a case and review of the literature] Massing JL, et al. **Ann Cardiol Angeiol (Paris)** 1997 May-Jun;46(5-6):311-5 (11 ref.) (Eng. Abstr.) **(Fre)**

[Accelerated desensitization for hymenoptera venom allergy in 30 hours: efficacy and safety in 150 cases] van der Brempt X, et al. **Rev Med Brux** 1997 Jun;18(3):120-4 (Eng. Abstr.) **(Fre)**

[Hymenoptera venom allergy] Meier P, et al. **Schweiz Med Wochenschr** 1997 Mar 8;127(10):395-7 (Eng. Abstr.) **(Ger)**

[Case of nephrotic syndrome caused by bee sting and followed by spontaneous remission] Kawasaki S, et al. **Nippon Naika Gakkai Zasshi** 1997 Jan 10;86(1):143-5 **(Jpn)**

[The role of apitherapy in the combined treatment of patients with chronic nonspecific lung diseases] Masterov GD, et al. **Lik Sprava** 1995 Mar-Apr;(3-4):155-8 (Eng. Abstr.) **(Rus)**

[The apitherapy of apical periodontitis] Kuriakina NV, et al. **Stomatologiia (Mosk)** 1996;Spec No:63-4 **(Rus)**

[The antimutagenic action of apiculture products] Bariliak IR, et al. **Tsitol Genet** 1996 Nov-Dec;30(6):48-55 (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

Datura stramonium lectin staining of glial associated extracellular material in insect brains. Hähnlein I, et al. **J Comp Neurol** 1996 Dec 9;376(2):175-87

Structural plasticity of identified glomeruli in the antennal lobes of the adult worker honey bee. Winnington AP, et al. **J Comp Neurol** 1996 Feb 12;365(3):479-90

CHEMISTRY

Novel antibacterial peptides isolated from a European bumblebee, Bombus pascuorum (Hymenoptera, Apoidea). Rees JA, et al. **Insect Biochem Mol Biol** 1997 May; 27(5):413-22

Determination of the fungicide vinclozolin in honey and bee larvae by solid-phase and solvent extraction with gas chromatography and electron-capture and mass spectrometric detection. Bernal JL, et al. **J Chromatogr A** 1996 Nov 22;754(1-2):507-13

Possible cytoprotective mechanism in rats of D-002, an anti-ulcerogenic product isolated from beeswax. Carbajal D, et al. **J Pharm Pharmacol** 1996 Aug;48(8):858-60

CLASSIFICATION

Classifying individuals among infra-specific taxa using microsatellite data and neural networks. Cornuet JM, et al. **C R Acad Sci III** 1996 Dec;319(12):1167-77

DRUG EFFECTS

Task-dependent effects of dicofol (kelthane) on learning in the honey bee (Apis mellifera). Stone JC, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):177-83

Laboratory and field studies on the effects of the antibiotic tylosin on honey bee Apis mellifera L. (Hymenoptera: Apidae) development and prevention of American foulbrood disease. Peng CYS, et al. **J Invertebr Pathol** 1996 Jan;67(1):65-71

Bee head acetylcholinesterase as an indicator of exposure to organophosphate and carbamate insecticides. Stefanidou M, et al. **Vet Hum Toxicol** 1996 Dec;38(6):420-2

ENZYMOLOGY

Isoenzymes related to flight activity in Tetragonisca angustula (Hymenoptera:Apidae:Meliponinae): evidence of postranslational modification of the hexokinase and detection of new glycerol-3-phosphate dehydrogenase variants. Castanheira EB, et al. **Biochem Genet** 1995 Dec; 33(11-12):365-75

Insect 86 kDa protein kinase C substrate is a filament interacting protein regulated by Ca2+/calmodulin and phosphorylation. Müller U. **Brain Res** 1997 May 16; 757(1):24-30

Toxicology of cupric salts on honeybees. V. Gluconate and sulfate action on gut alkaline and acid phosphatases. Bounias M, et al. **Ecotoxicol Environ Saf** 1996 Oct; 35(1):67-76

[Isoenzymatic characterization of the hexokinase in the development of Plebeia droryana (Hymenoptera, Apidae) and its relation with flight activity] de Paiva ML, et al. **Rev Bras Biol** 1995 Dec;55 Suppl 1:107-11 (Eng. Abstr.) **(Por)**

GENETICS

Characterisation of the ultraviolet-sensitive opsin gene in the honey bee, Apis mellifera. Bellingham J, et al. **Eur J Biochem** 1997 Feb 1;243(3):775-81

Cloning of the gene encoding honeybee long-wavelength rhodopsin: a new class of insect visual pigments. Chang BS, et al. **Gene** 1996 Sep 16;173(2):215-9

Genetic differentiation of continental and island populations of Bombus terrestris (Hymenoptera: Apidae) in Europe. Estoup A, et al. **Mol Ecol** 1996 Feb;5(1):19-31

Molecular phylogenetics of honey bee subspecies (Apis mellifera L.) inferred from mitochondrial DNA sequence. Arias MC, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):557-66

GROWTH & DEVELOPMENT

Juvenile hormone, behavioral maturation, and brain structure in the honey bee. Fahrbach SE, et al. **Dev Neurosci** 1996; 18(1-2):102-14 (121 ref.)

IMMUNOLOGY

The natural history of Apis-specific IgG and IgG4 in beekeepers. García-Robaina JC, et al. **Clin Exp Allergy** 1997 Apr;27(4):418-23

Allergies to wheat, yeast and royal jelly: a connection between ingestion and inhalation? Baldo BA. **Monogr Allergy** 1996;32:84-91 (12 ref.)

METABOLISM

Effect of a brood pheromone on honeybee hypopharyngeal glands. Mohammedi A, et al. **C R Acad Sci III** 1996 Sep; 319(9):769-72

Histamine-like immunoreactivity in the visual system and brain of an orthopteran and a hymenopteran insect. Bornhauser BC, et al. **Cell Tissue Res** 1997 Jan; 287(1):211-21

Expression of the surface antigen A2B7 in adult and developing honeybee olfactory pathway. Gascuel J, et al. **Int J Dev Neurosci** 1996 Nov;14(7-8):997-1011

Effects of photoreceptor metabolism on interstitial and glial cell pH in bee retina: evidence of a role for NH4+. Coles JA, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):305-18

Effects of ambient oxygen tension on flight performance, metabolism, and water loss of the honeybee. Joos B, et al. **Physiol Zool** 1997 Mar-Apr;70(2):167-74

MICROBIOLOGY

Laboratory and field studies on the effects of the antibiotic tylosin on honey bee Apis mellifera L. (Hymenoptera: Apidae) development and prevention of American foulbrood disease. Peng CYS, et al. **J Invertebr Pathol** 1996 Jan;67(1):65-71

Biological properties and antibiotic susceptibility of Bacillus larvae originated from American foulbrood of honeybee in Japan. Okayama A, et al. **J Vet Med Sci** 1996 May; 58(5):439-41

PARASITOLOGY

[Experiences with the use of BAYVAROL STRIPS in beehives in warehouses and post-treatment hives for control of varroatosis under practice conditions] Haupt W, et al. **Berl Munch Tierarztl Wochenschr** 1996 Jun-Jul; 109(6-7):232-8 (Eng. Abstr.) **(Ger)**

[Problems with nosematosis in reproduction apiaries] Jeliński M. **Wiad Parazytol** 1997;43(1):93-5 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Learning and memory in honeybees: from behavior to neural substrates. Menzel R, et al. **Annu Rev Neurosci** 1996; 19:379-404 (204 ref.)

Mecamylamine-induced impairment of acquisition and retrieval of olfactory conditioning in the honeybee. Lozano VC, et al. **Behav Brain Res** 1996 Nov;81(1-2):215-22

Programmed cell death in the honey-bee (Apis mellifera L.) larvae midgut. Gregorc A, et al. **Cell Biol Int** 1997 Mar; 21(3):151-8

Juvenile hormone, behavioral maturation, and brain structure in the honey bee. Fahrbach SE, et al. **Dev Neurosci** 1996; 18(1-2):102-14 (121 ref.)

Antennal lobe neurons of the honey bee, Apis mellifera, express a D2-like dopamine receptor in vitro. Kirchhof BS, et al. **J Comp Neurol** 1997 Jun 30;383(2):189-98

Oxygen consumption in the foraging honeybee depends on the reward rate at the food source. Moffatt L, et al. **J Comp Physiol [B]** 1997 Jan;167(1):36-42

Activity of asynchronous flight muscle from two bee families during sonication (buzzing). King MJ, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2317-21

Odorant intensity as a determinant for olfactory conditioning in honeybees: roles in discrimination, overshadowing and memory consolidation. Pelz C, et al. **J Exp Biol** 1997 Feb; 200 (Pt 4):837-47

The olfactory memory of the honeybee Apis mellifera. III. Bilateral sensory input is necessary for induction and expression of olfactory blocking. Thorn RS, et al. **J Exp Biol** 1997 Jul;200 (Pt 14):2045-55

Activity-dependent changes to the brain and behavior of the honey bee, Apis mellifera (L.). Sigg D, et al. **J Neurosci** 1997 Sep 15;17(18):7148-56

The effects of age on olfactory learning and memory in the honey bee Apis mellifera. Ray S, et al. **Neuroreport** 1997 Feb 10;8(3):789-93

Learning in the Africanized honey bee: Apis mellifera L. Abramson CI, et al. **Physiol Behav** 1997 Sep;62(3):657-74

Common endocrine and genetic mechanisms of behavioral development in male and worker honey bees and the evolution of division of labor. Giray T, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11718-22

Energy metabolism, enzymatic flux capacities, and metabolic flux rates in flying honeybees. Suarez RK, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12616-20

Effects of juvenile hormones I, II and III, in single and fractionated dosage in Melipona bees. Bonetti AM, et al. **Rev Bras Biol** 1995 Dec;55 Suppl 1:113-20

Honeybee thermoregulation [letter; comment] Heinrich B, et al. **Science** 1997 May 16;276(5315):1015; discussion 1016-7. Comment on: Science 1996 Oct 4;274(5284):88-90.

Honeybee thermoregulation [letter; comment] Stevenson RD, et al. **Science** 1997 May 16;276(5315):1015-6; discussion 1016-7. Comment on: Science 1996 Oct 4;274(5284):88-90.

The stability and persistence of mutualisms embedded in community interactions. Ringel MS, et al. **Theor Popul Biol** 1996 Dec;50(3):281-97

Metric analysis of threshold spectral sensitivity in the honeybee. Brandt R, et al. **Vision Res** 1997 Feb; 37(4):425-39

RADIATION EFFECTS

[Morphophysiological effects of an ultrahigh frequency field (letter)] Es'kov EK. **Biofizika** 1996 May-Jun;41(3):771-2 (Eng. Abstr.) **(Rus)**

VIROLOGY

Glycosylation, palmitoylation, and localization of the human D2S receptor in baculovirus-infected insect cells. Grünewald S, et al. **Biochemistry** 1996 Dec 3; 35(48):15149-61

BEET YELLOWS VIRUSES see **CLOSTEROVIRUS**

BEETLES

An outbreak of the vesicating beetle Paederus sabaeus Er. (Coleoptera: Staphylinidae) in Rivers State, Nigeria. Okiwelu SN, et al. **Ann Trop Med Parasitol** 1996 Jun; 90(3):345-6

Distinct sequences of AKH/RPCH family members in beetle (Scarabaeus-species) corpus cardiacum contain three aromatic amino acid residues. Gäde G. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):16-21

Contact dermatitis with cervical lymphadenopathy following exposure to the hide beetle, Dermestes peruvianus. Ramachandran S, et al. **Br J Dermatol** 1997 Jun; 136(6):943-5

An outbreak of paederus dermatitis in a suburban hospital in Sri Lanka. Kamaladasa SD, et al. **Int J Dermatol** 1997

Jan;36(1):34–6
Concaveation and maintenance of maternal behavior in a burrower bug (Sehirus cinctus): a comparative perspective. Kight SL. **J Comp Psychol** 1996 Mar;110(1):69–76
Comparison of Perillus bioculatus and Podisus maculiventris (Hemiptera:Pentatomidae) as potential control agents of the Colorado potato beetle (Coleoptera:Chrysomelidae). Hough-Goldstein J, et al. **J Econ Entomol** 1996 Oct; 89(5):1116–23
Insecticidal activity of monoterpenoids to western corn rootworm (Coleoptera: Chrysomelidae), twospotted spider mite (Acari: Tetranychidae), and house fly (Diptera: Muscidae). Lee S, et al. **J Econ Entomol** 1997 Aug; 90(4):883–92
Larvicidal activity of the symbiotic bacterium Xenorhabdus japonicus from the entomopathogenic nematode Steinernema kushidai against Anomala cuprea (Coleoptera:Scarabaeidae). Tachibana M, et al. **J Invertebr Pathol** 1996 Sep;68(2):152–9
Mortality in chickens associated with blister beetle consumption. Penrith ML, et al. **J S Afr Vet Assoc** 1996 Jun;67(2):97–9

ANATOMY & HISTOLOGY

A tympanal hearing organ in scarab beetles. Forrest TG, et al. **J Exp Biol** 1997 Feb;200 (Pt 3):601–6

CHEMISTRY

Cell-mediated haemolytic activity of haemolymph from the Colorado potato beetle (Leptinotarsa decemlineata Say.) Glupov VV. **Cytobios** 1996;86(344):35–51
Pyrrolidinoöxazolidine alkaloids from two species of ladybird beetles. Radford P, et al. **J Nat Prod** 1997 Aug;60(8):755–9
Separation, identification and determination of luciferin in the Iranian firefly, Lampyris turkestanicus by HPLC and spectroscopic methods. Hadj-Mohammadi MR, et al. **Photochem Photobiol** 1996 Nov;64(5):821–2
Firefly luciferase: the structure is known, but the mystery remains. Baldwin TO. **Structure** 1996 Mar 15;4(3):223–8 (49 ref.)

CLASSIFICATION

Biochemical systematics of Japanese fireflies of the subfamily Luciolinae and their flash communication systems. Suzuki H, et al. **Biochem Genet** 1996 Jun;34(5–6):191–200
Mitochondrial DNA sequence variation and phylogeography of Pimelia darkling beetles on the island of Tenerife (Canary Islands). Juan C, et al. **Heredity** 1996 Dec;77 (Pt 6):589–98
A molecular phylogeny of the tiger beetles (Cicindelidae): congruence of mitochondrial and nuclear rDNA data sets. Vogler AP, et al. **Mol Phylogenet Evol** 1996 Dec; 6(3):321–38
Phylogeny of North American Cicindela tiger beetles inferred from multiple mitochondrial DNA sequences. Vogler AP, et al. **Mol Phylogenet Evol** 1997 Oct; 8(2):225–35

CYTOLOGY

Immunoreactivities for calcium signaling components and neural-like properties of a Colorado potato beetle cell line. Sheppard CA, et al. **Arch Insect Biochem Physiol** 1996; 33(3–4):197–209
Cell lines from the melolonthine scarab Antitrogus parvulus. Fernon CA, et al. **In Vitro Cell Dev Biol Anim** 1996 Feb; 32(2):85–9

ENZYMOLOGY

The stress-related production of the active Photinus pyralis and Luciola mingrelica firefly luciferases in Escherichia coli. Leont'eva O, et al. **Appl Biochem Biotechnol** 1996 Oct–Nov;61(1–2):109–22
Response of digestive cysteine proteinases from the Colorado potato beetle (Leptinotarsa decemlineata) and the black vine weevil (Otiorynchus sulcatus) to a recombinant form of human stefin A. Michaud D, et al. **Arch Insect Biochem Physiol** 1996;31(4):451–64
Purification and characterization of juvenile hormone esterase from hemolymph of the Colorado potato beetle. Vermunt AM, et al. **Arch Insect Biochem Physiol** 1997; 35(3):261–77
Synthesis of dehydroluciferin by firefly luciferase: effect of dehydroluciferin, coenzyme A and nucleoside triphosphates on the luminescent reaction. Fontes R, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):445–50
Cloning and sequencing of a cDNA for firefly luciferase from Photuris pennsylvanica. Ye L, et al. **Biochim Biophys Acta** 1997 Apr 25;1339(1):39–52
Time course of luciferyl adenylate synthesis in the firefly luciferase reaction. Dukhovich A, et al. **FEBS Lett** 1996 Oct 21;395(2–3):188–90
Mutagenesis of firefly luciferase shows that cysteine residues are not required for bioluminescence activity. Ohmiya Y, et al. **FEBS Lett** 1997 Mar 10;404(2–3):115–7
Equilibrium intermediates in the reversible unfolding of firefly (Photinus pyralis) luciferase. Herbst R, et al. **J Biol Chem** 1997 Mar 14;272(11):7099–105
Genetic relatedness of North American populations of Tomicus piniperda (Coleoptera:Scolytidae). Carter MC, et al. **J Econ Entomol** 1996 Dec;89(6):1345–53
Crystal structure of firefly luciferase throws light on a superfamily of adenylate-forming enzymes. Conti E, et al. **Structure** 1996 Mar 15;4(3):287–98
[Measurement of ATP in intact Escherichia coli cells, containing recombinant firefly luciferase] Dement'eva EI, et al. **Biokhimiia** 1996 Jul;61(7):1285–93 (Eng. Abstr.) **(Rus)**
[Participation of DnaK chaperone and ATP in in vivo folding of firefly luciferase, synthesized by E. coli cells] Leont'eva OV, et al. **Biokhimiia** 1996 Apr;61(4):721–6 (Eng. Abstr.) **(Rus)**

GENETICS

Intraspecific mitochondrial DNA variation in the Colorado potato beetle, Leptinotarsa decemlineata (Coleoptera: Chrysomelidae). Azeredo-Espin AM, et al. **Biochem Genet** 1996 Aug;34(7–8):253–68
Polymorphic curvature of satellite DNA in three subspecies of the beetle Pimelia sparsa. Barceló F, et al. **Eur J Biochem** 1997 Mar 1;244(2):318–24
Mitochondrial DNA sequence variation and phylogeography of Pimelia darkling beetles on the island of Tenerife (Canary Islands). Juan C, et al. **Heredity** 1996 Dec;77 (Pt 6):589–98
Parallel evolution in radiation of Ohomopterus ground beetles inferred from mitochondrial ND5 gene sequences. Su ZH, et al. **J Mol Evol** 1996 Dec;43(6):662–71
Phylogenetic relationships and evolution of the Japanese Carabinae ground beetles based on mitochondrial ND5 gene sequences. Su ZH, et al. **J Mol Evol** 1996 Feb; 42(2):124–9
Phylogenetic analysis of slippage-like sequence variation in the V4 rRNA expansion segment in tiger beetles (Cicindelidae). Vogler AP, et al. **Mol Biol Evol** 1997 Jan; 14(1):6–19
The primary structure of Harpalus rufipes 5S ribosomal RNA: a contribution for understanding insect evolution. Barciszewska MZ, et al. **Mol Biol Rep** 1995;21(3):165–7
Phylogeny of North American Cicindela tiger beetles inferred from multiple mitochondrial DNA sequences. Vogler AP, et al. **Mol Phylogenet Evol** 1997 Oct; 8(2):225–35

IMMUNOLOGY

Asthma caused by Dermestidae (black carpet beetle): a new allergen in house dust. Cuesta-Herranz J, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):147–9

METABOLISM

2-Deoxyecdysone is a circulating ecdysteroid in the beetle Zophobas atratus. Aribi N, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):246–52
Influence of life history and sex on metal accumulation in two beetle species (Insecta:Coleoptera). Lindqvist L, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):518–22
Staining in the brain of Pachymorpha sexguttata mediated by an antibody against a Drosophila clock-gene product: labeling of cells with possible importance for the beetle's circadian rhythms. Frisch B, et al. **Cell Tissue Res** 1996 Dec;286(3):411–29

MICROBIOLOGY

Spiroplasma corruscae sp. nov., from a firefly beetle (Coleoptera: Lampyridae) and tabanid flies (Diptera: Tabanidae). Hackett KJ, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):947–50
Reservoir competence of Alphitobius diaperinus (Coleoptera:Tenebrionidae) for Escherichia coli (Eubacteriales:Enterobacteriaceae). McAllister JC, et al. **J Med Entomol** 1996 Nov;33(6):983–7

PARASITOLOGY

Haemolymph from female beetles infected with Hymenolepis diminuta metacestodes retards the development of ovarian follicles in recipient Tenebrio molitor (Coleoptera). Major M, et al. **Parasitology** 1997 Feb;114 (Pt 2):175–9

PHYSIOLOGY

Effect of zinc contamination on life history parameters of a ground beetle, Poecilus cupreus. Kramarz P, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):525–30
Behavioral response to ultrasound by the tiger beetle Cicindela marutha dow combines aerodynamic changes and sound production. Yager DD, et al. **J Exp Biol** 1997 Feb; 200 (Pt 3):649–59
Sclerotiamide: a new member of the paraherquamide class with potent antiinsectan activity from the sclerotia of Aspergillus sclerotiorum. Whyte AC, et al. **J Nat Prod** 1996 Nov;59(11):1093–5
Seasonal synchronicity and stage-specific life cycles: Topp's beetles revisited. Grist EP, et al. **Math Biosci** 1997 Oct 1;145(1):1–25
Preliminary investigations of Aphodius species activity in cattle faeces treated with ivermectin. Finnegan PM, et al. **Med Vet Entomol** 1997 Apr;11(2):139–42
Haemolymph from female beetles infected with Hymenolepis diminuta metacestodes retards the development of ovarian follicles in recipient Tenebrio molitor (Coleoptera). Major M, et al. **Parasitology** 1997 Feb;114 (Pt 2):175–9
Firefly "femmes fatales" acquire defensive steroids (lucibufagins) from their firefly prey. Eisner T, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9723–8
Defensive production of formic acid (80%) by a carabid beetle (Galerita lecontei). Rossini C, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6792–7
Insects on plants: macroevolutionary chemical trends in host use [see comments] Becerra JX. **Science** 1997 Apr 11; 276(5310):253–6. Comment in: Science 1997 Apr 11;276(5310):218–9.

BEGGIATOALES

GENETICS

Genetic transformation of Vitreoscilla sp. Navani NK, et al. **Gene** 1996 Oct 24;177(1–2):265–6

ISOLATION & PURIFICATION

Filamentous sulfide-oxidizing bacteria at hydrocarbon seeps of the Gulf of Mexico. Larkin JM, et al. **Microsc Res Tech** 1996 Jan 1;33(1):23–31

BEHAVIOR

see related
GENETICS, BEHAVIORAL

Cognitive development and behaviour in very low birthweight twins at four years. Dezoete JA, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(3):325–32
Rise of neurogenetic determinism. Rose SP. **Acta Paediatr Suppl** 1997 Jul;422:38–40 (7 ref.)
Big Brothers: impact on Little Brothers' self-concepts and behaviors. Turner S, et al. **Adolescence** 1996 Winter; 31(124):875–82
Changing behavior: a challenge for reproductive health awareness. Andreasen AR. **Adv Contracept** 1997 Jun-Sep; 13(2–3):351–3 (0 ref.)
Direct and indirect behavioral effects of different genetic disorders of mental retardation. Hodapp RM. **Am J Ment Retard** 1997 Jul;102(1):67–79
Personal characteristics associated with episodes of injury in a residential facility. Konarski EA Jr, et al. **Am J Ment Retard** 1997 Jul;102(1):37–44
Tobacco and alcohol use behaviors portrayed in music videos: a content analysis. DuRant RH, et al. **Am J Public Health** 1997 Jul;87(7):1131–5
Seven-year trends in body weight and associations with lifestyle and behavioral characteristics in black and white young adults: the CARDIA study. Lewis CE, et al. **Am J Public Health** 1997 Apr;87(4):635–42
The impact of perceived behavior on patient-physician satisfaction. Baider L, et al. **Ann N Y Acad Sci** 1997 Feb 20;809:266–78
Persistent alterations in behavior and serotonin activity after recovery from anorexia and bulimia nervosa. Kaye WH. **Ann N Y Acad Sci** 1997 May 28;817:162–78 (139 ref.)
A comparison of the self-awareness and kinesthetic-visual matching theories of self-recognition: autistic children and others. Mitchell RW. **Ann N Y Acad Sci** 1997 Jun 18; 818:38–62 (111 ref.)
Behavioral influences on diurnal blood pressure rhythms. Pickering TG, et al. **Ann N Y Acad Sci** 1996 Aug 15; 783:132–40 (43 ref.)
The human self and the animal self: behavioral problems with few answers. Comments on the papers of Mitchell, Swartz, and Gallup. Thompson RL. **Ann N Y Acad Sci** 1997 Jun 18;818:284–90
Neuropsychological and behavioral changes and weight gain after medial pallidotomy [letter; comment] Lang AE, et al. **Ann Neurol** 1997 Jun;41(6):834–6. Comment on: Ann Neurol 1996 Sep;40(3):355–66.
Measuring problem behaviors in dementia: developing a methodological agenda. Davis LL, et al. **ANS Adv Nurs Sci** 1997 Sep;20(1):40–55
Abusive behavior in the perioperative setting. Fortunato N. **AORN J** 1996 Sep;64(3):451–3
Body weight and shape control: examining component behaviours. Conner M, et al. **Appetite** 1996 Oct; 27(2):135–50
Developing a strategy for managing behavioral health care within the context of primary care. Fisher L, et al. **Arch Fam Med** 1997 Jul-Aug;6(4):324–33 (97 ref.)
Alzheimer disease and frontotemporal dementias. Behavioral distinctions [see comments] Levy ML, et al. **Arch Neurol** 1996 Jul;53(7):687–90. Comment in: Arch Neurol 1997 Apr;54(4):350.
Old/new differences in direct and indirect memory tests using pictures and words in within- and cross-form conditions: event-related potential and behavioral measures. Kazmerski VA, et al. **Brain Res Cogn Brain Res** 1997 Jun; 5(4):255–72
An universal model of health and work output: theoretical structure and testing strategy. Steegmann AT Jr, et al. **Coll Antropol** 1997 Jun;21(1):47–65
Barbarism is part of human nature. Bentivegna J. **Conn Med** 1996 Jul;60(7):429–30
Behavioural development and Doppler velocimetry in relation to perinatal outcome in small for dates fetuses. Gazzolo D, et al. **Early Hum Dev** 1995 Oct 2;43(2):185–95
Fetal behaviour in normal and compromised fetuses. An overview. Romanini C, et al. **Early Hum Dev** 1995 Oct

2;43(2):117–31 (48 ref.)
The archaeological attributes of behaviour: difference or variability? Holdaway S, et al. **Endeavour** 1997;21(2):66–71
Trust in automation. Part II. Experimental studies of trust and human intervention in a process control simulation. Muir BM, et al. **Ergonomics** 1996 Mar;39(3):429–60
Psychoneuroimmunology: searching for the main deteriorating psychobehavioral factor. Rotenberg VS, et al. **Genet Soc Gen Psychol Monogr** 1996 Aug;122(3):329–46 (72 ref.)
Intelligence and behaviour in children born after in–vitro fertilization treatment. Cederblad M, et al. **Hum Reprod** 1996 Sep;11(9):2052–7
Psychologic functioning, quality of life, and behavioral compliance in patients beginning hemodialysis. Kimmel PL, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2152–9
In pursuit of general behavioral relations. Mace FC. **J Appl Behav Anal** 1996 Winter;29(4):557–63 (37 ref.)
The Revised Asthma Problem Behavior Checklist: adaptation for use in Spanish asthmatic patients. Belloch A, et al. **J Asthma** 1997;34(1):31–41
Behavioral components of marital satisfaction: an individualized assessment approach. Johnson PL, et al. **J Consult Clin Psychol** 1996 Apr;64(2):417–23
Modeling the effects of water usage and co–behavior on inhalation exposures to contaminants volatilized from household water. Wilkes CR, et al. **J Expo Anal Environ Epidemiol** 1996 Oct–Dec;6(4):393–412
Self–regulation and exercise behavior in older women. Schneider JK. **J Gerontol B Psychol Sci Soc Sci** 1997 Sep; 52(5):P235–41
Relation between psychiatric disorder and abnormal illness behaviour in patients undergoing operations for cervical discectomy. Taylor RE, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):169–74
The influence of manager behavior on nurses' job satisfaction, productivity, and commitment. McNeese–Smith DK. **J Nurs Adm** 1997 Sep;27(9):47–55
Vested interest, symbolic politics, and attitude–behavior consistency. Crano WD. **J Pers Soc Psychol** 1997 Mar; 72(3):485–91
Evidence for genetic influence on both cross–situation and situation–specific components of behavior. Phillips K, et al. **J Pers Soc Psychol** 1997 Jul;73(1):129–38
Drug–free behavioral history affects social drinkers' tolerance to a challenge dose of alcohol. Easdon CM, et al. **J Stud Alcohol** 1996 Nov;57(6):591–7
Issues in the implementation of a randomized clinical trial that includes Alcoholics Anonymous: studying AA–related behaviors during treatment. McCrady BS, et al. **J Stud Alcohol** 1996 Nov;57(6):604–12
The logic of contrition. Boerlijst MC, et al. **J Theor Biol** 1997 Apr 7;185(3):281–93
Dirty protests: a phenomenological assessment. Hall JM. **Med Sci Law** 1997 Jan;37(1):35–6
Assessment of sun–related behaviour in individuals with dysplastic naevus syndrome: a comparison between diary recordings and questionnaire responses. Brandberg Y, et al. **Melanoma Res** 1997 Aug;7(4):347–51
Laboratory of Caribbean Brain Research Organization in the decade of the brain midpoint. Results in reaching behavior––interferences of subcortical motor centers, neurotransmitter blocking and brain function modeling. Hernández–Mesa N, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):253–8
Fatal familial insomnia: behavioral and cognitive features. Gallassi R, et al. **Neurology** 1996 Apr;46(4):935–9
Automatisms [letter; comment] Serafetinides EA. **Neurology** 1996 Apr;46(4):1189. Comment on: Neurology 1995 Jan;45(1):61–4.
Using linked meta–analysis to build policy models. Lipsey MW. **NIDA Res Monogr** 1997;170:216–33
Adaptive sampling in behavioral surveys. Thompson SK. **NIDA Res Monogr** 1997;167:296–319 (76 ref.)
Estimates of stability of daily wandering behavior among cognitively impaired long–term care residents. Algase DL, et al. **Nurs Res** 1997 May–Jun;46(3):172–8
Improving dressing behavior in cognitively impaired nursing home residents. Beck C, et al. **Nurs Res** 1997 May–Jun; 46(3):126–32
The behavioral flow sheet. A tool for the primary care provider. McAliley LG, et al. **Nurse Pract** 1996 Jun; 21(6):22–4, 33–5, 39–40
Emotional and behavioral responses to genetic testing for susceptibility to cancer. Lerman C, et al. **Oncology (Huntingt)** 1996 Feb;10(2):191–5, 9; discussion 200–2 (61 ref.)
Longitudinal examination of the behavioral, language, and social changes in a population of adolescents and young adults with autistic disorder. Ballaban–Gil K, et al. **Pediatr Neurol** 1996 Oct;15(3):217–23
Predicting the criminal antecedents of a stranger rapist from his offence behaviour. Davies A, et al. **Sci Justice** 1997 Jul–Sep;37(3):161–70
The image of sociobiology [letter] Wilson TP. **Science** 1996 Nov 1;274(5288):703–4
Behaviors as risk factors for rehospitalization: implications for predicting and preventing admissions among the seriously mentally ill. Sullivan G, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 May;32(4):185–90
Malaria–related beliefs and behaviour in southern Ghana: implications for treatment, prevention and control. Ahorlu CK, et al. **Trop Med Int Health** 1997 May;2(5):488–99
The onset of inter–human contacts: longitudinal ultrasound observations in early twin pregnancies. Arabin B, et al. **Ultrasound Obstet Gynecol** 1996 Sep;8(3):166–73
Fetal behavior: who so sceptical? [editorial] Hepper PG. **Ultrasound Obstet Gynecol** 1996 Sep;8(3):145–8 (14 ref.)
Intervention strategies and determinants of physical activity and exercise behavior in adult and older adult men and women. King AC. **World Rev Nutr Diet** 1997;82:148–58 (45 ref.)
[Behavioral states. An in utero study] D'Elia A, et al. **Minerva Ginecol** 1997 Mar;49(3):85–9 (Eng. Abstr.) **(Ita)**
[Perception: behavioral configuration of the object] Maturana HR, et al. **Arch Biol Med Exp (Santiago)** 1987; 20(3–4):319–24 (Eng. Abstr.) **(Spa)**
[Genes and human behavior] Salamanca–Gómez F. **Gac Med Mex** 1996 Nov–Dec;132(6):643–4 **(Spa)**
[Male with fever and behavioral disorders] García–Lechuz Moya JM, et al. **Rev Clin Esp** 1997 Feb;197(2):133–4 **(Spa)**

CLASSIFICATION

Interobserver agreement and disagreement in continuous recording exemplified by measurement of behavior state. Mudford OC, et al. **Am J Ment Retard** 1997 Jul; 102(1):54–66

DRUG EFFECTS

The behavioral and neurochemical effects of phenyclidine in humans and animals: some implications for modeling psychosis. Steinpresis RE. **Behav Brain Res** 1996 Jan; 74(1–2):45–55 (195 ref.)
m–Chlorophenylpiperazine challenge in borderline personality disorder: relationship of neuroendocrine response, behavioral response, and clinical measures. Stein DJ, et al. **Biol Psychiatry** 1996 Sep 15;40(6):508–13
Antidepressant therapy and behavioural competence. O'Hanlon JF. **Br J Clin Pract** 1996 Oct–Nov;50(7):381–5 (36 ref.)
Behavior genetics of drug sensitization. Phillips TJ. **Crit Rev Neurobiol** 1997;11(1):21–33 (90 ref.)
Behavioral toxicology, risk assessment, and chlorinated hydrocarbons. Evangelista de Duffard AM, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:353–60 (121 ref.)
The assessment of neurobehavioral toxicity: SGOMSEC joint report. Fiedler N, et al. **Environ Health Perspect** 1996 Apr; 104 Suppl 2:179–91 (74 ref.)
Risk assessment for neurobehavioral toxicity: SGOMSEC joint report. Hattis D, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:217–26 (43 ref.)
The challenge of mechanism–based modeling in risk assessment for neurobehavioral end points. Hattis D. **Environ Health Perspect** 1996 Apr;104 Suppl 2:381–90 (30 ref.)
Behavioral methods and organic solvents: questions and consequences. Iregren A. **Environ Health Perspect** 1996 Apr;104 Suppl 2:361–6 (56 ref.)
Comprehensive neurotoxicity assessment. Kulig BM. **Environ Health Perspect** 1996 Apr;104 Suppl 2:317–22 (63 ref.)
Behavioral effects of lead: commonalities between experimental and epidemiologic data. Rice DC. **Environ Health Perspect** 1996 Apr;104 Suppl 2:337–51 (119 ref.)
Neurobehavioral aspects of developmental toxicity testing. Ulbrich B, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:407–12 (16 ref.)
The intersection of risk assessment and neurobehavioral toxicity. Weiss B, et al. **Environ Health Perspect** 1996 Apr; 104 Suppl 2:173–7
Proceedings of the 5th International Symposium on Neurobehavioral Methods and Effects in Occupational and Environmental Health. Cairo, Egypt, December 3–7, 1994. **Environ Res** 1997;73(1–2):1–249
Human neurobehavioral research methods: impact of subject variables. Anger WK, et al. **Environ Res** 1997;73(1–2):18–41
Neurobehavioral tests as a medical surveillance procedure: applying evaluative criteria. Guirguis S. **Environ Res** 1997; 73(1–2):63–9 (46 ref.)
The Triennial International Symposium on Neurobehavioral Methods: the history and hope. Johnson BL. **Environ Res** 1997;73(1–2):2–8 (17 ref.)
The development of neurobehavioral toxicology in China: the 1994 Hänninen Lecture. Liang YX, et al. **Environ Res** 1997;73(1–2):9–17
An investigation into neurologic and neurobehavioral effects of long–term agrichemical use among deciduous fruit farm workers in the Western Cape, South Africa. London L, et al. **Environ Res** 1997;73(1–2):132–45
Motor function, olfactory threshold, and hematological indices in manganese–exposed ferroalloy workers. Lucchini R, et al. **Environ Res** 1997;73(1–2):175–80
Environmental surveys conducted in the Gulf region following the Gulf War to identify possible neurobehavioral consequences. Osman Y. **Environ Res** 1997;73(1–2):207–10
Neurobehavioral effects of occupational exposure to low–level organic solvents among Taiwanese workers in paint factories. Tsai SY, et al. **Environ Res** 1997; 73(1–2):146–55
Hazardous waste and neurobehavioral effects: a developmental perspective. White RF, et al. **Environ Res** 1997;73(1–2):113–24
Standardisation of a self–report questionnaire for use in evaluating cognitive, affective and behavioural side–effects of anti–epileptic drug treatments. Gillham R, et al. **Epilepsy Res** 1996 May;24(1):47–55
Ethanol and pentobarbital: comparison of behavioral and subjective effects in sedative drug abusers. Mintzer MZ, et al. **Exp Clin Psychopharmacol** 1997 Aug;5(3):203–15
Acute participant–rated and behavioral effects of alprazolam and buspirone, alone and in combination with ethanol, in normal volunteers. Rush CR, et al. **Exp Clin Psychopharmacol** 1997 Feb;5(1):28–38
The IPCS collaborative study on neurobehavioral screening methods. Moser VC, et al. **Fundam Appl Toxicol** 1997 Feb; 35(2):143–51
Neuroleptic use and behavioral disturbance in nursing homes: a 1–year study. Burton LC, et al. **Int Psychogeriatr** 1995 Winter;7(4):535–45
Effect of menstrual cycle phase on neuroendocrine and behavioral responses to the serotonin agonist m–chlorophenylpiperazine in women with premenstrual syndrome and controls. Su TP, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1220–8
Evidence that expectancies mediate behavioral impairment under alcohol. Fillmore MT, et al. **J Stud Alcohol** 1996 Nov;57(6):598–603
Clinical features and pharmacologic treatment of behavioral symptoms of Alzheimer's disease. Borson S, et al. **Neurology** 1997 May;48(5 Suppl 6):S17–24 (71 ref.)
Cerebrospinal fluid homovanillic acid predicts behavioral response to stimulants in 45 boys with attention deficit/hyperactivity disorder. Castellanos FX, et al. **Neuropsychopharmacology** 1996 Feb;14(2):125–37
The behavioral effect of m–chlorophenylpiperazine (mCPP) and methylphenidate in first–episode schizophrenia and normal controls. Koreen AR, et al. **Neuropsychopharmacology** 1997 Jan;16(1):61–8
Cognitive and behavioral effects of cholinergic, dopaminergic, and serotonergic blockade in humans. Vitiello B, et al. **Neuropsychopharmacology** 1997 Jan; 16(1):15–24
Behavioural pharmacology of glutamate receptors in the basal ganglia. Schmidt WJ, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):381–92 (142 ref.)
Behavioral effects of dietary neurotransmitter precursors: basic and clinical aspects. Young SN. **Neurosci Biobehav Rev** 1996 Summer;20(2):313–23 (142 ref.)
Proceedings of symposium on computerized behavioral testing of humans in neurotoxicology research. Portland, Oregon, June 21–23, 1995. **Neurotoxicol Teratol** 1996 Jul–Aug;18(4):347–518
Symposium on computerized behavioral testing of humans in neurotoxicology research: overview of the proceedings. Anger WK, et al. **Neurotoxicol Teratol** 1996 Jul–Aug; 18(4):347–50 (29 ref.)
Human behavioral assessment in neurotoxicology: producing appropriate test performance with written and shaping instructions. Anger WK, et al. **Neurotoxicol Teratol** 1996 Jul–Aug;18(4):371–9
Behavioral effects of exposure to organic solvents in carpet layers. Muijser H, et al. **Neurotoxicol Teratol** 1996 Jul–Aug; 18(4):455–62
Cognitive neurotoxicology: a luxury or necessity? Stollery BT. **Neurotoxicol Teratol** 1996 Jul–Aug;18(4):359–64 (32 ref.)
Historical overview of computerized behavioral testing of humans in neurotoxicology. Williamson AM. **Neurotoxicol Teratol** 1996 Jul–Aug;18(4):351–7
Effects of low level lead exposure on cognitive function in children: a review of behavioral, neuropsychological and biological evidence. Banks EC, et al. **Neurotoxicology** 1997; 18(1):237–81 (295 ref.)
Evidence for PCBs as neurodevelopmental toxicants in humans. Jacobson JL, et al. **Neurotoxicology** 1997; 18(2):415–24 (35 ref.)
Neurobehavioral effects of solvents and circadian rhythms. Kiesswetter E, et al. **Neurotoxicology** 1996 Fall–Winter; 17(3–4):777–84
Surveillance of early neurotoxic dysfunction. Mergler D, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):803–12
Long–term effects of developmental exposure to cocaine on learned and unlearned behaviors. Vorhees CV. **NIDA Res Monogr** 1996;164:3–52 (61 ref.)
Drug effects: a search for outcomes. Zuckerman B. **NIDA Res Monogr** 1996;164:277–87 (29 ref.)
Monoamine transporters and the neurobehavioral teratology of cocaine. Meyer JS, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):585–93 (108 ref.)
Behavioral, physiological and neuroendocrine responses in healthy volunteers to m–chlorophenylpiperazine (m–CPP) with and without ondansetron pretreatment. Broocks A, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):91–103
A comparison of the acute behavioral effects of flunitrazepam and triazolam in healthy volunteers. Farré M, et al. **Psychopharmacology (Berl)** 1996 May;125(1):1–12
Methodological considerations in nicotine research: the use of "denicotinised" cigarettes as the control condition in smoking studies. Rusted JM, et al. **Psychopharmacology (Berl)** 1996 May;125(2):176–8

A neurobehavioural study of long-term occupational inorganic lead exposure. Osterberg K, et al. **Sci Total Environ** 1997 Aug 1;201(1):39–51

Cocaine wreaks subtle damage on developing brains [news] Vogel G. **Science** 1997 Oct 3;278(5335):38–9

Behavioural impairment in smoke environments. Purser D. **Toxicology** 1996 Dec 31;115(1–3):25–40 (17 ref.)

[Pharmacovigilance of new antidepressants: evaluation of neuro-psychobehavioral disorders] Blayac JP, et al. **Therapie** 1997 Mar–Apr;52(2):117–22 (Eng. Abstr.) **(Fre)**

[Hypoxic brain damage after carbon monoxide poisoning. Visual agnosia, reduced initiative and memory and delayed sequelae] Tvedt B, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):3005–8 (Eng. Abstr.) **(Nor)**

PHYSIOLOGY

A longitudinal study of behavioral pathology across five levels of dementia severity in Alzheimer's disease: the CERAD Behavior Rating Scale for Dementia. The Alzheimer's Disease Cooperative Study. Patterson MB, et al. **Alzheimer Dis Assoc Disord** 1997;11 Suppl 2:S40–4

Metabolic and behavioral effects of a high-sucrose diet during weight loss. Surwit RS, et al. **Am J Clin Nutr** 1997 Apr;65(4):908–15

Prevalence and neurobehavioral correlates of pathological laughing and crying in multiple sclerosis. Feinstein A, et al. **Arch Neurol** 1997 Sep;54(9):1116–21

Ventral tegmental area 5-HT receptors: mesolimbic dopamine release and behavioural studies. Mylecharane EJ. **Behav Brain Res** 1996;73(1–2):1–5 (37 ref.)

Psychobiology of plasticity: effects of training and experience on brain and behavior. Rosenzweig MR, et al. **Behav Brain Res** 1996 Jun;78(1):57–65 (79 ref.)

Sexual dimorphism in interhemispheric relations: anatomical–behavioral convergence. Zaidel E, et al. **Biol Res** 1995;28(1):27–43 (78 ref.)

Paradoxical functional facilitation in brain–behaviour research. A critical review [see comments] Kapur N. **Brain** 1996 Oct;119 (Pt 5):1775–90 (156 ref.). Comment in: Brain 1997 Jul;120 (Pt 7):1261–4.

Paradoxical functional facilitation in brain–behavior research: a critical review [letter; comment] Ovsiew F. **Brain** 1997 Jul;120 (Pt 7):1261–4. Comment on: Brain 1996 Oct;119 (Pt 5):1775–90.

Frontal behavioral inventory: diagnostic criteria for frontal lobe dementia. Kertesz A, et al. **Can J Neurol Sci** 1997 Feb;24(1):29–36

Parietal cortex area 5 and visuomotor behavior. Kalaska JF. **Can J Physiol Pharmacol** 1996 Apr;74(4):483–98 (69 ref.)

Learning perceptual skills: behavioral probes into adult cortical plasticity. Karni A, et al. **Curr Opin Neurobiol** 1997 Aug;7(4):530–5 (71 ref.)

Cerebral metabolic changes in Alzheimer's disease: neurobehavioral patterns. Blesa R, et al. **Dementia** 1996 Sep–Oct;7(5):239–45 (51 ref.)

Temporal stability in the distribution of behavioral states for individual human fetuses. Groome LJ, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):187–97

Dependence of aortic pulse wave assessments on behavioural state in normal term fetus. Hu J, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):59–70

Electrocortical and behavioral responses produced by acute electrical stimulation of the human centromedian thalamic nucleus. Velasco M, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jun; 102(6):461–71

Normal voiding behaviour in women. Study of the I-PSS in an unselected population of women in general practice. Desgrandchamps F, et al. **Eur Urol** 1996;30(1):18–23

Behavioural and arousal-related influences on breathing in humans. Shea SA. **Exp Physiol** 1996 Jan;81(1):1–26 (162 ref.)

Turning bias in humans is influenced by phase of the menstrual cycle. Mead LA, et al. **Horm Behav** 1997 Feb; 31(1):65–74

Effects of a behavioural rhythm on conception probability and pregnancy outcome. Boklage CE. **Hum Reprod** 1996 Oct;11(10):2276–84

MHC and behavior. Zavazava N, et al. **Immunol Today** 1997 Jan;18(1):8–10

Difficulty in visual motor coordination as a possible cause of sedentary behaviour in obese children [letter] Petrolini N, et al. **Int J Obes Relat Metab Disord** 1995 Dec; 19(12):928

Is there a way from behavior to non-linear brain dynamics? On quantal periods in cognition and the place of alpha in brain resonances. Geissler HG. **Int J Psychophysiol** 1997 Jun;26(1–3):381–93 (31 ref.)

Clinical experiences and methodologic challenges in conducting clinical trials on the behavioral disturbances of dementia. Finkel SI, et al. **Int Psychogeriatr** 1996;8 Suppl 2:151–63; discussion 163–4 (42 ref.)

Parameters considered in multinational clinical drug trials. Homma A. **Int Psychogeriatr** 1996;8 Suppl 2:165–7 (7 ref.)

Behavioral disturbances of dementia: an overview of phenomenology and methodologic concerns. Reisberg B, et al. **Int Psychogeriatr** 1996;8 Suppl 2:169–80; discussion 181–2 (46 ref.)

Assessing behavioral symptoms of dementia of the Alzheimer type: categorical and quantitative approaches. Zaudig M. **Int Psychogeriatr** 1996;8 Suppl 2:183–200 (48 ref.)

Vth International Conference on Hormones, Brain and Behavior. Torino, Italy, August 25–30, 1996. Abstracts. **Ital J Anat Embryol** 1996 Aug;101 Suppl 1:1–220

Do animal models have a place in the genetic analysis of quantitative human behavioural traits? Flint J, et al. **J Mol Med** 1996 Sep;74(9):515–21 (55 ref.)

Antisense oligodeoxynucleotides as specific tools for studying neuroendocrine and behavioral functions: some prospects and problems. Nicot A, et al. **J Neurosci Methods** 1997 Jan;71(1):45–53 (57 ref.)

Perceptions of symptom distress in lung cancer patients: II. Behavioral assessment by primary family caregivers. Lobchuk MM, et al. **J Pain Symptom Manage** 1997 Sep; 14(3):147–56

Structural and pharmacological aspects of the GABAA receptor: involvement in behavioral pathogenesis. Clément Y. **J Physiol Paris** 1996;90(1):1–13 (144 ref.)

Medication-taking behavior of the elderly. Huang LH. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jul; 12(7):423–33

Sociological and behavioural characteristics of perimenopausal women with an express attitude to hormone substitution therapy. Jensen LB, et al. **Maturitas** 1996 Feb;23(1):73–83

The placebo effect on mood and behavior: the role of the endogenous opioid system. Sher L. **Med Hypotheses** 1997 Apr;48(4):347–9 (32 ref.)

Central nervous system actions of oxytocin and modulation of behavior in humans. McCarthy MM, et al. **Mol Med Today** 1997 Jun;3(6):269–75 (49 ref.)

Genetics of complex behavioral traits: obesity, dopamine, and mood [news] LaHoste GJ. **Mol Psychiatry** 1996 Sep; 1(4):302

Functional and behavioral consequences of sarcopenia. Jette AM, et al. **Muscle Nerve Suppl** 1997;5:S39–41 (11 ref.)

Behavioural effects of infectious mononucleosis. Hall SR, et al. **Neuropsychobiology** 1996;33(4):202–9

Recent developments in an animal model of visual evoked potential augmenting/reducing and sensation seeking behavior. Siegel J, et al. **Neuropsychobiology** 1996; 34(3):130–5 (38 ref.)

Dual-task performance in dysexecutive and nondysexecutive patients with a frontal lesion. Baddeley A, et al. **Neuropsychology** 1997 Apr;11(2):187–94

Neurophysiological mechanisms of cortical-subcortical interactions in the organization of behavior. Shuvaev VT, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):288–96 (29 ref.)

Individual Differences in the Biobehavioral Etiology of Drug Abuse. Proceedings of a conference. September 13–14, 1993. **NIDA Res Monogr** 1996;159:1–358

Parity-associated body weight: modification by sociodemographic and behavioral factors. Wolfe WS, et al. **Obes Res** 1997 Mar;5(2):131–41

Assessing the stages of pain processing: a multivariate analytical approach. Wade JB, et al. **Pain** 1996 Nov; 68(1):157–67

Meeting the constraints upon behavioral expression through neural and genomic interactive mechanisms. Pfaff DW, et al. **Prog Brain Res** 1996;107:343–54 (48 ref.)

Behavioral, neurochemical, anatomical and electrophysiological correlates of panic disorder: multiple transmitter interaction and neuropeptide colocalization. Zacharko RM, et al. **Prog Neurobiol** 1995 Nov–Dec; 47(4–5):371–423 (792 ref.)

Changing through doing: behavioral influences on the brain. White SA, et al. **Recent Prog Horm Res** 1997;52:455–73; discussion 473–4 (41 ref.)

Computer modelling of human behaviour in aircraft fire accidents. Galea ER, et al. **Toxicology** 1996 Dec 31; 115(1–3):63–78 (34 ref.)

BEHAVIOR, ADAPTIVE see **ADAPTATION, PSYCHOLOGICAL**

BEHAVIOR, ADDICTIVE

see related
SUBSTANCE USE DISORDERS

Inside Addiction: peering into the editorial review process [editorial] Babor TF, et al. **Addiction** 1996 Dec; 91(12):1757–63

Nicotine, caffeine and alcohol use in high- and low-dose benzodiazepine users. Lekka NP, et al. **Drug Alcohol Depend** 1997 May 2;45(3):207–12

Alprazolam-reinforced medication use in outpatients with anxiety. Roache JD, et al. **Drug Alcohol Depend** 1997 May 2;45(3):143–55

Sensitivity and specificity to amphetamine of a French version of the 49-item form of the addiction research center inventory. Warot D, et al. **Drug Alcohol Depend** 1997 May 2;45(3):177–83

Nicotine, tobacco and addiction [letter] Griffiths M. **Nature** 1996 Nov 7;384(6604):18

Absence of opiate rewarding effects in mice lacking dopamine D2 receptors. Maldonado R, et al. **Nature** 1997 Aug 7;388(6642):586–9

So little time. Zaloznik AJ. **Pharos** 1996 Winter;59(1):7

Drug abuse: hedonic homeostatic dysregulation. Koob GF, et al. **Science** 1997 Oct 3;278(5335):52–8

Tobacco addiction: more from Dr Chapman [letter; comment] Chapman S. **World Health Forum** 1996; 17(1):76–7. Comment on: World Health Forum 1995;16(1):1–9; discussion 10–27. Comment on: World Health Forum 1995;16(3):267–9.

[Is the term "dependence" appropriate?] Pavlovský P. **Ceska Slov Psychiatr** 1996 May;92(2):83–5 (Eng. Abstr.) **(Cze)**

COMPLICATIONS

The impact of behavior and addiction on psychological models of cigarette and alcohol use during pregnancy. Moore PJ, et al. **Addict Behav** 1996 Sep–Oct;21(5):645–68

DIAGNOSIS

Concurrent validity of the Work Addiction Risk Test as a measure of workaholism. Robinson BE. **Psychol Rep** 1996 Dec;79(3 Pt 2):1313–4

[Alternating addictions: apropos of 3 cases] Baylé FJ, et al. **Encephale** 1996 Jul–Aug;22(4):293–7 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Naltrexone: a controversial therapy for alcohol dependence. Freed PE, et al. **J Psychosoc Nurs Ment Health Serv** 1997 Jul;35(7):24–8

EPIDEMIOLOGY

Addictive behavior of older adults. Graham K, et al. **Addict Behav** 1996 May–Jun;21(3):331–48

An epidemiological survey on use and abuse of antianxiety drugs among Beijing residents. Jiang Z, et al. **Chin Med J (Engl)** 1996 Oct;109(10):801–6

Psychology of computer use: XLVII. Parameters of Internet use, abuse and addiction: the first 90 days of the Internet Usage Survey. Brenner V. **Psychol Rep** 1997 Jun;80(3 Pt 1):879–82

[Status of the management of addicted patients--results of an expert survey as the basis for health policy decisions] Fleischmann H, et al. **Gesundheitswesen** 1996 Oct; 58(10):538–42 (Eng. Abstr.) **(Ger)**

ETIOLOGY

[Syndrome secondary to post-traumatic stress disorder and addictive behaviors] Darves-Bornoz JM, et al. **Ann Med Psychol (Paris)** 1996 Jun;154(3):190–4 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Nicotine regulates smoking patterns. Djordjevic MV, et al. **Prev Med** 1997 Jul–Aug;26(4):435–40

PSYCHOLOGY

A criterion measurement model for health behavior change. Velicer WF, et al. **Addict Behav** 1996 Sep–Oct;21(5):555–84

Impulsivity in pathological gambling: the antisocial impulsivist. Blaszczynski A, et al. **Addiction** 1997 Jan; 92(1):75–87

Carrot addiction. Kaplan R. **Aust N Z J Psychiatry** 1996 Oct;30(5):698–700 (8 ref.)

Measurement of antecedents to drug and alcohol use: psychometric properties of the Inventory of Drug-Taking Situations (IDTS). Turner NE, et al. **Behav Res Ther** 1997 May;35(5):465–83

Temptations to smoke after quitting: a comparison of lapsers and maintainers. Shiffman S, et al. **Health Psychol** 1996 Nov;15(6):455–61

Compulsion and addiction. Dodes LM. **J Am Psychoanal Assoc** 1996;44(3):815–35

Guilt, shame, and depression in clients in recovery from addiction. Meehan W, et al. **J Psychoactive Drugs** 1996 Apr–Jun;28(2):125–34

Personal construct psychotherapy of addictions. Klion RE, et al. **J Subst Abuse Treat** 1997 Jan–Feb;14(1):37–43 (26 ref.)

Sex differences on exercise dependence for men and women in a marathon road race. Pierce EF, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):991–4

Psychology of computer use: XLIII. Some comments on 'addictive use of the Internet' by Young [comment] Griffiths M. **Psychol Rep** 1997 Feb;80(1):81–2. Comment on: Psychol Rep 1996 Dec;79(3 Pt 1):899–902.

Risk of addiction to work and family functioning. Robinson BE, et al. **Psychol Rep** 1997 Aug;81(1):91–5

Psychology of computer use: XL. Addictive use of the Internet: a case that breaks the stereotype [see comments] Young KS. **Psychol Rep** 1996 Dec;79(3 Pt 1):899–902. Comment in: Psychol Rep 1997 Feb;80(1):81–2.

Self-mutilation in adolescence as addictive behaviour. Karwautz A, et al. **Wien Klin Wochenschr** 1996;108(3):82–4

THERAPY

Internet addiction, Internet psychotherapy [letter; comment] Stein DJ. **Am J Psychiatry** 1997 Jun;154(6):890. Comment on: Am J Psychiatry 1996 Jul;153(7):861–9.

Pathological gambling and treatment. Griffiths M. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):477–9

BEHAVIOR, ADOLESCENT see **ADOLESCENT BEHAVIOR**

BEHAVIOR, ANIMAL

Perinatal stimulation and adaptation of the neonate. Ronca AE, et al. **Acta Paediatr Suppl** 1996 Oct;416:8–15

Effect of training and environment on brain morphology and behavior. Schrott LM. **Acta Paediatr Suppl** 1997 Jul; 422:45–7 (38 ref.)

Behavioral and neurophysiological effects of CNS expression of cytokines in transgenic mice. Gold LH, et al. **Adv Exp Med Biol** 1996;402:199–205 (10 ref.)

ESBRA–Nordmann 1996 Award Lecture: ethanol drinking behaviour in Sardinian alcohol-preferring rats. Colombo G. **Alcohol Alcohol** 1997 Jul–Aug;32(4):443–53

Alcohol consumption and gustatory hedonic profiles in Wistar–Kyoto hyper- and normoactive rat strains. Razafimanalina R, et al. **Alcohol Alcohol** 1997 Jul–Aug; 32(4):485–91

Of monkeys and men: vervets and the genetics of human–like behaviors. Palmour RM, et al. **Am J Hum Genet** 1997 Sep; 61(3):481–8

Behavioral retardation in a macaque with autosomal trisomy and aging mother. de Waal FB, et al. **Am J Ment Retard** 1996 Jan;100(4):378–90

The value of studying occupation: an example with primate play [published erratum appears in Am J Occup Ther 1996 Sep;50(8):638] Wood W. **Am J Occup Ther** 1996 May; 50(5):327–37 (60 ref.)

Stable isotope ratios indicate diet and habitat use in New World monkeys. Schoeninger MJ, et al. **Am J Phys Anthropol** 1997 May;103(1):69–83 (73 ref.)

Positional behavior of the white uakari (Cacajao calvus calvus). Walker SE, et al. **Am J Phys Anthropol** 1996 Oct; 101(2):161–72

Capuchin monkey (Cebus apella) grips for the use of stone tools. Westergaard GC, et al. **Am J Phys Anthropol** 1997 May;103(1):131–5

Food hoarding is increased by pregnancy, lactation, and food deprivation in Siberian hamsters. Bartness TJ. **Am J Physiol** 1997 Jan;272(1 Pt 2):R118–25

12th Annual meeting of the American Society of Primatologists. San Diego, California, June 27–July 1997. Abstracts. **Am J Primatol** 1997;42(2):85–158

"Stepping–sticks" and "seat–sticks": new types of tools used by wild chimpanzees (Pan troglodytes) in Sierra Leone. Alp R. **Am J Primatol** 1997;41(1):45–52

Inhibition of social behavior in chimpanzees under high–density conditions. Aureli F, et al. **Am J Primatol** 1997;41(3):213–28

Pair–rearing infant monkeys (Macaca nemestrina) using a "rotating–peer" strategy. Novak MF, et al. **Am J Primatol** 1997;41(2):141–9

Behavioral and social correlates of escape from suppression of ovulation in female common marmosets housed with the natal family. Saltzman W, et al. **Am J Primatol** 1997; 41(1):1–21

Social development in nursery–reared pigtailed macaques (Macaca nemestrina). Worlein JM, et al. **Am J Primatol** 1997;41(1):23–35

Discovering behavior. Mason WA. **Am Psychol** 1997 Jul; 52(7):713–20 (84 ref.)

What is mirror self–recognition in nonhuman primates, and what is it not? Swartz KB. **Ann N Y Acad Sci** 1997 Jun 18;818:64–71 (30 ref.)

J.S. Kennedy (1912–1993): a clear thinker in behavior's confused world. Brady J. **Annu Rev Entomol** 1997;42:1–22

Ponderostat: hoarding behavior satisfies the condition for a lipostat in the rat. Cabanac M, et al. **Appetite** 1996 Dec; 27(3):251–61

Hippocampal electrical activity and behavior in the rabbit. Fontani G, et al. **Arch Ital Biol** 1997 Jan;135(1):49–71 (130 ref.)

Exposure to combined static and 60 Hz magnetic fields: failure to replicate a reported behavioral effect. Stern S, et al. **Bioelectromagnetics** 1996;17(4):279–92

Vibroacoustic stimulation with a complex signal: effect on behavioral state in fetal sheep. Abrams RM, et al. **Biol Neonate** 1996;70(3):155–64

Determinants of primate social organization: comparative evidence and new insights from Malagasy lemurs. Kappeler PM. **Biol Rev Camb Philos Soc** 1997 Feb;72(1):111–51 (248 ref.)

Serotonergic modulation of behaviour: a phylogenetic overview. Weiger WA. **Biol Rev Camb Philos Soc** 1997 Feb;72(1):61–95 (172 ref.)

Cooperation among unrelated individuals: reciprocal altruism, by–product mutualism and group selection in fishes. Dugatkin LA, et al. **Biosystems** 1996;37(1–2):19–30

Early determinants of behaviour: evidence from primate studies. Suomi SJ. **Br Med Bull** 1997 Jan;53(1):170–84 (59 ref.)

Time budget and colour preferences (with specific reference to feeding) of ostrich (Struthio camelus) chicks in captivity. Bubier NE, et al. **Br Poult Sci** 1996 Jul;37(3):547–51

Behavioural development in groups of pen–housed pullets in relation to genetic strain, age and food form. Savory CJ, et al. **Br Poult Sci** 1997 Mar;38(1):38–47

Capsaicin–sensitive afferents mediate chronic cold, but not mechanical, allodynia–like behavior in spinally injured rats. Hao JX, et al. **Brain Res** 1996 May 25;722(1–2):177–80

Multi–player matrix games. Broom M, et al. **Bull Math Biol** 1997 Sep;59(5):931–52

Synthesis and future challenges: the response of mosquitoes to host odours. Takken W. **Ciba Found Symp** 1996; 200:302–12; discussion 312–20 (52 ref.)

The fate of filial attachment in juvenile guinea pigs housed apart from the mother. Hennessy MB, et al. **Dev Psychobiol** 1996 Dec;29(8):641–51

Effect of repeated experience of victory and defeat in daily agonistic confrontations on brain tryptophan hydroxylase activity. Amstislavskaya TG, et al. **FEBS Lett** 1997 Apr 7;406(1–2):106–8

Occurrence of an infanticide within a captive polygynous group of common marmosets, Callithrix jacchus. Kirkpatrick–Tanner M, et al. **Folia Primatol (Basel)** 1996; 67(1):52–8

Utilization of the rat as a model of mammalian aging: impact of pathology on behavior. Spangler EL, et al. **Gerontology** 1996;42(6):301–11

Social modulation of sex steroid concentrations in the urine of male cichlid fish Oreochromis mossambicus. Oliveira RF, et al. **Horm Behav** 1996 Mar;30(1):2–12

Behavioural effects of prenatal and postnatal undernutrition in rats. Jaiswal AK, et al. **Indian J Exp Biol** 1996 Dec; 34(12):1216–9

Changes in mouse behavior induced by fetal exposure to diagnostic ultrasound. Suresh R, et al. **Indian J Exp Biol** 1996 Sep;34(9):895–7

Intriguing links between animal behavior and anorexia nervosa. Treasure JL, et al. **Int J Eat Disord** 1997 May; 21(4):307–11 (43 ref.)

Behavioral and adaptive status in an experimental model of Alzheimer's disease in rats. Popović M, et al. **Int J Neurosci** 1996 Sep;86(3–4):281–99

Behavioral characteristics of two rat strains differing in sensitivity to the cardiotoxic effect of isoprenaline. Starec M, et al. **Int J Neurosci** 1996 Nov;87(3–4):241–8

Toxic effects of acute inhalation exposure to 1,2,4–trimethylbenzene (pseudocumene) in experimental animals. Korsak Z, et al. **Int J Occup Med Environ Health** 1995;8(4):331–7

Bioacoustic behavior of African fishes (Mormyridae): potential cues for species and individual recognition in Pollimyrus. Crawford JD, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1200–12

Attraction of male mosquitoes to sound. Belton P. **J Am Mosq Control Assoc** 1994 Jun;10(2 Pt 2):297–301 (27 ref.)

How mosquitoes see traps: role of visual responses. Bidlingmayer WL. **J Am Mosq Control Assoc** 1994 Jun;10(2 Pt 2):272–9 (45 ref.)

Culex annulirostris breeding sites in urban areas: using remote sensing and digital image analysis to develop a rapid predictor of potential breeding areas. Dale PE, et al. **J Am Mosq Control Assoc** 1996 Jun;12(2 Pt 1):316–20

Sensory physiological basis for attraction in mosquitoes. Davis EE, et al. **J Am Mosq Control Assoc** 1994 Jun;10(2 Pt 2):316–25 (51 ref.)

Olfactory attractants for mosquito surveillance and control: 1–octen–3–ol. Kline DL. **J Am Mosq Control Assoc** 1994 Jun;10(2 Pt 2):280–7 (25 ref.)

Diel patterns of oviposition and influence of agitated water surface in Chironomus anonymus (Diptera:Chironomidae). Lothrop BB, et al. **J Am Mosq Control Assoc** 1996 Jun; 12(2 Pt 1):215–9

Host response profiles: a new theory to help us understand why and how attractants attract. Roitberg BD, et al. **J Am Mosq Control Assoc** 1994 Jun;10(2 Pt 2):333–8 (18 ref.)

The tsetse (Diptera: Glossinidae) story: implications for mosquitoes. Torr SJ. **J Am Mosq Control Assoc** 1994 Jun; 10(2 Pt 2):258–65 (63 ref.)

Establishment of behavioral parameters for the evaluation of osteopathic treatment principles in a rat model of arthritis [see comments] Hallas B, et al. **J Am Osteopath Assoc** 1997 Apr;97(4):207–14. Comment in: J Am Osteopath Assoc 1997 Apr;97(4):204.

The best studies do one thing well [editorial; comment] Patterson MM. **J Am Osteopath Assoc** 1997 Apr;97(4):204 . Comment on: J Am Osteopath Assoc 1997 Apr;97(4):207–14.

Influence of owner personality type on expression and treatment outcome of dominance aggression in dogs. Dodman NH, et al. **J Am Vet Med Assoc** 1996 Sep 15; 209(6):1107–9

Selecting, raising, and caring for dogs to avoid problem aggression. Hart BL, et al. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1129–34 (17 ref.)

Effects of aggressive behavior on canine welfare. Hunthausen W. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1134–6 (8 ref.)

Dog bite prevention from animal control's perspective. Rieck D. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1145–6 (1 ref.)

Effects of prepubertal gonadectomy on physical and behavioral development in cats [see comments] Stubbs WP, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1864–71. Comment in: J Am Vet Med Assoc 1997 Feb 1;210(3):321.

AVMA forum focuses on aggressive dogs [news] Suzik HA. **J Am Vet Med Assoc** 1997 Feb 1;210(3):305–6, 308

In pursuit of general behavioral relations. Mace FC. **J Appl Behav Anal** 1996 Winter;29(4):557–63 (37 ref.)

Differential kinship effect on reconciliation in three species of macaques (Macaca fascicularis, M. fuscata, and M. sylvanus). Aureli F, et al. **J Comp Psychol** 1997 Mar; 111(1):91–9

Postsuckling behavioral arousal in weanling rats (Rattus norvegicus). Gerrish CJ, et al. **J Comp Psychol** 1997 Mar; 111(1):37–49

Development of Piagetian object permanence in a grey parrot (Psittacus erithacus). Pepperberg IM, et al. **J Comp Psychol** 1997 Mar;111(1):63–75

Increasing the variability of response sequences in pigeons by adjusting the frequency of switching between two keys. Machado A. **J Exp Anal Behav** 1997 Jul;68(1):1–25

Behavioral response to ultrasound by the tiger beetle Cicindela marutha dow combines aerodynamic changes and sound production. Yager DD, et al. **J Exp Biol** 1997 Feb; 200 (Pt 3):649–59

Biological significance in forward and backward blocking: resolution of a discrepancy between animal conditioning and human causal judgment. Miller RR, et al. **J Exp Psychol Gen** 1996 Dec;125(4):370–86

Seasonal incidence of insect stings: autumn 'yellow jacket delirium'. Bischof RO. **J Fam Pract** 1996 Sep;43(3):271–3

Phenotypic and genetic divergence in three species of dart–poison frogs with contrasting parental behavior. Summers K, et al. **J Hered** 1997 Jan–Feb;88(1):8–13

Interpreting hominid behavior on the basis of sexual dimorphism. Plavcan JM, et al. **J Hum Evol** 1997 Apr; 32(4):345–74

On the non–existence of an optimal migration rate. Lemire M, et al. **J Math Biol** 1997 Jun;35(6):657–82

Timing of Ixodes scapularis (Acari: Ixodidae) oviposition and larval activity in southern New York. Daniels TJ, et al. **J Med Entomol** 1996 Jan;33(1):140–7

Hourly activity of Lutzomyia ovallesi and L. gomezi (Diptera:Psychodidae), Vectors of cutaneous leishmaniasis in northcentral Venezuela. Feliciangeli MD. **J Med Entomol** 1997 Mar;34(2):110–5

Comparison of behavior and vector efficiency of Anopheles gambiae and An. arabiensis (Diptera:Culicidae) in Barkedji, a Sahelian area of Senegal. Lemasson JJ, et al. **J Med Entomol** 1997 Jul;34(4):396–403

Evidence for attachment pheromones in the Cayenne tick (Acari:Ixodidae). Rechav Y, et al. **J Med Entomol** 1997 Mar;34(2):234–7

The physiological and behavioral effects of radio music on singly housed baboons. Brent L, et al. **J Med Primatol** 1996 Oct;25(5):370–4

Behavioral analysis of signals that guide learned changes in the amplitude and dynamics of the vestibulo–ocular reflex. Raymond JL, et al. **J Neurosci** 1996 Dec 1;16(23):7791–802

A new video path analyzer to monitor travel distance, rearing, and stereotypic movement of rats. Pan WH, et al. **J Neurosci Methods** 1996 Dec;70(1):39–43

A new ultrasonic method for measuring minute motion activities of rats. Young CW, et al. **J Neurosci Methods** 1996 Dec;70(1):45–9

Chymopapain–induced reduction of proinflammatory phospholipase A2 activity and amelioration of neuropathic behavioral changes in an in vivo model of acute sciatica. Sawin PD, et al. **J Neurosurg** 1997 Jun;86(6):998–1006

Coevolutionary chase on exploiter–victim systems with polygenic characters. Gavrilets S. **J Theor Biol** 1997 Jun 21;186(4):527–34

Preferences of mice and rats for types of bedding material. Blom HJ, et al. **Lab Anim** 1996 Jul;30(3):234–44

The response of group–housed baboons to three enrichment toys. Brent L, et al. **Lab Anim** 1997 Jan;31(1):81–5

Preference of laboratory rats for potentially enriching stimulus objects. Chmiel DJ Jr, et al. **Lab Anim** 1996 Apr; 30(2):97–101

Preferences of individually housed TO strain laboratory mice for loose substrate or tubes for sleeping. Sherwin CM. **Lab Anim** 1996 Jul;30(3):245–51

Heterogeneity in the performance of outbred Sprague–Dawley rats in an elevated–plus maze test: a possible animal model for anxiety disorder. Prasad A, et al. **Life Sci** 1996;59(18):1499–506

Behaviour of MRL mice: an animal model of disturbed behaviour in systemic autoimmune disease. Szechtman H, et al. **Lupus** 1997;6(3):223–9 (40 ref.)

Age and temperature related changes in behavioral and physiological performance in the Peromyscus leucopus mouse. Duffy PH, et al. **Mech Ageing Dev** 1997 Apr; 95(1–2):43–61

Biological variation in Anopheles darlingi Root. Charlwood JD. **Mem Inst Oswaldo Cruz** 1996 Jul–Aug;91(4):391–8 (80 ref.)

Isolation of song–regulated genes in the brain of songbirds. Mello CV, et al. **Methods Mol Biol** 1997;85:205–17

Laboratory of Caribbean Brain Research Organization in the decade of the brain midpoint. Results in reaching behavior––interferences of subcortical motor centers, neurotransmitter blocking and brain function modeling. Hernández–Mesa N, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):253–8

Postoperative environmental enrichment attenuates fimbria–fornix lesion–induced impairments in Morris maze performance. van Rijzingen IM, et al. **Neurobiol Learn Mem** 1997 Jan;67(1):21–8

A cellular approach to the study of complex natural behavior patterns in the ragged sea hare (Bursatella leachii), a marine invertebrate indigenous to Puerto Rico. Miller MW. **P R Health Sci J** 1997 Mar;16(1):23–36 (105 ref.)

Effects of early parenting on growth and development in a small primate. Johnson EO, et al. **Pediatr Res** 1996 Jun;

39(6):999–1005
Viewing of self and nonself images in a group of captive orangutans (Pongo pygmaeus Abellii). Tobach E, et al. **Percept Mot Skills** 1997 Apr;84(2):355–70
Facially impaired man versus chimpanzee: a within–primate differentiation effect. Wion F. **Percept Mot Skills** 1996 Oct; 83(2):691–700
Experimental models and behavioural tests used in the study of Parkinson's disease. Mokrý J. **Physiol Res** 1995; 44(3):143–50 (40 ref.)
The effect of beak trimming on two strains of commercial tom turkeys. 2. Behavior traits. Noble DO, et al. **Poult Sci** 1996 Dec;75(12):1468–71
Nocturnality and species survival. Daily GC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11709–12
Common endocrine and genetic mechanisms of behavioral development in male and worker honey bees and the evolution of division of labor. Giray T, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11718–22
Pleiotropic effects of a disrupted K+ channel gene: reduced body weight, impaired motor skill and muscle contraction, but no seizures. Ho CS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1533–8
Frequency of migrants and migratory activity are genetically correlated in a bird population: evolutionary implications. Pulido F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14642–7
The shape of female mating preferences. Ritchie MG. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14628–31
Behavioral phenotypes of inbred mouse strains: implications and recommendations for molecular studies. Crawley JN, et al. **Psychopharmacology (Berl)** 1997 Jul;132(2):107–24 (175 ref.)
Studies on mosquitoes (Diptera: Culicidae) and anthropic environment. 10– Survey of adult behaviour of Culex nigripalpus and other species of Culex (Culex) in south–eastern Brazil. Forattini OP, et al. **Rev Saude Publica** 1995 Aug;29(4):271–8
Diversity of Trypanosoma cruzi stocks and clones derived from Chagas disease patients: I––Behavioral characterization in vitro. Lauria–Pires L, et al. **Rev Soc Bras Med Trop** 1997 May–Jun;30(3):187–92
Cats and obsessive–compulsive disorder [letter] Stein DJ, et al. **S Afr Med J** 1996 Dec;86(12 Suppl):1614–5
The importance of a well–groomed child [comment] Sapolsky RM. **Science** 1997 Sep 12;277(5332):1620–1. Comment on: Science 1997 Sep 12;277(5332):1659–62.
Evolutionary psychologists look for roots of cognition [news] Williams N. **Science** 1997 Jan 3;275(5296):29–30
Through a glass darkly: using behavior to assess pain. Hansen B. **Semin Vet Med Surg (Small Anim)** 1997 May;12(2):61–74 (70 ref.)
Pathomechanism of pain–related behavior produced by allografts of intervertebral disc in the rat. Kawakami M, et al. **Spine** 1996 Sep 15;21(18):2101–7
Psychological and behavioural effects of endogenous testosterone and anabolic–androgenic steroids. An update. Bahrke MS, et al. **Sports Med** 1996 Dec;22(6):367–90 (157 ref.)
Neural grafting to experimental neocortical infarcts improves behavioral outcome and reduces thalamic atrophy in rats housed in enriched but not in standard environments. Mattsson B, et al. **Stroke** 1997 Jun;28(6):1225–31; discussion 1231–2
Behavioral effects of prenatal exposure to pulsed–wave ultrasound in unanesthetized rats. Fisher JE Jr, et al. **Teratology** 1996 Aug;54(2):65–72
Olfaction in Drosophila: from odor to behavior. Carlson JR. **Trends Genet** 1996 May;12(5):175–80 (49 ref.)
Effects of the duration of lairage following transportation on the behaviour and physiology of farmed red deer. Grigor PN, et al. **Vet Rec** 1997 Jan 4;140(1):8–12
Aggressive behaviour in English cocker spaniels and the personality of their owners. Podberscek AL, et al. **Vet Rec** 1997 Jul 19;141(3):73–6
Effects of transporting horses facing either forwards or backwards on their behaviour and heart rate. Waran NK, et al. **Vet Rec** 1996 Jul 6;139(1):7–11
Is atmospheric superoxide vitally necessary? Accelerated death of animals in a quasi–neutral electric atmosphere. Goldstein N, et al. **Z Naturforsch [C]** 1997 May–Jun; 52(5–6):396–404
[The optimization of group size for fattening rabbits in group housing on grids made of artificial material] Drescher B, et al. **Berl Munch Tierarztl Wochenschr** 1996 Aug; 109(8):304–8 (Eng. Abstr.) **(Ger)**
[Results of behavioral investigations of broilers kept on various litter materials] Lindner R, et al. **Berl Munch Tierarztl Wochenschr** 1997 Feb;110(2):41–5 (Eng. Abstr.) **(Ger)**
[Pain conditioned changes in animal behavior] Otto K. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb;104(2):46–8 (Eng. Abstr.) **(Ger)**
[Case report: decreased laying performance as a contributing problem] Zentek J, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Mar;104(3):120–2 (Eng. Abstr.) **(Ger)**
[Effects of shock experience on aversiveness caused by the scream of other rats: overshadowing tests of the association assumption] Aoyama K, et al. **Shinrigaku Kenkyu** 1996 Oct; 67(4):321–6 (Eng. Abstr.) **(Jpn)**
[Combined effect of variable and static magnetic fields on rat behavior in the "open field "] Deriugina ON, et al. **Biofizika** 1996 May–Jun;41(3):762–4 (Eng. Abstr.) **(Rus)**
[Effect of a 50 Hz magnetic field on rat behavior depends on the direct current component] Lyskov EB, et al. **Biofizika** 1996 Jul–Aug;41(4):870–5 (Eng. Abstr.) **(Rus)**
[The mother–offspring relationship in cattle] Baskin LM, et al. **Dokl Akad Nauk** 1996 May;348(1):124–6 **(Rus)**
[Integral behavior of animals based on genetic and ontogenetic mechanisms] Chaĭlakhian LM. **Dokl Akad Nauk** 1996 Jun;348(6):838–41 **(Rus)**
[A higher level of integral animal behavior––expedient solution of a situational problem by the animal itself] Chaĭlakhian LM. **Dokl Akad Nauk** 1997 Mar;353(1):124–7 (13 ref.) **(Rus)**
[Mechanism of multicellular animal behavior determined by genetics] Chaĭlakhian LM. **Dokl Akad Nauk** 1996 Jan; 346(1):132–5 (15 ref.) **(Rus)**
[Growth and functional activity of the abdominal gland and marking behavior of Midday (Meriones meridianus) and Tamarisk (M. tamariscinus) gerbils] Sokolov VE, et al. **Dokl Akad Nauk** 1997 Mar;353(1):134–7 **(Rus)**

DRUG EFFECTS

Neural tolerability of commercial preparations of iodinated nonionic monomers and dimers: comparison in an animal model. Maly P, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S220–2
Solcoseryl stimulates behavioural activity of rats. Braszko JJ, et al. **Acta Physiol Hung** 1996;84(1):63–72
Opioid dependency and the progression of simian AIDS: opioid dependency and behavioral observations. Killam KF, et al. **Adv Exp Med Biol** 1996;402:43–51
Neurotoxic effects of gadopentetate dimeglumine: behavioral disturbance and morphology after intracerebroventricular injection in rats [see comments] Ray DE, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):365–73. Comment in: AJNR Am J Neuroradiol 1997 Apr;18(4):785–6; discussion 786–8.
New insight into the mechanisms of ethanol effects on GABAA receptor function and expression, and their relevance to behavior. Buck KJ. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):198A–202A
In vivo links between neurochemistry and behavioral effects of ethanol. Gonzales R. **Alcohol Clin Exp Res** 1996 Nov; 20(8 Suppl):203A–209A
A placebo–controlled comparison between betamethasone and dexamethasone for fetal maturation: differences in neurobehavioral development of mice offspring. Rayburn WF, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):842–50; discussion 850–1
Effects of 2–deoxy–D–glucose and insulin on plasma glucose levels and behavioral thermoregulation of toads. Branco LG. **Am J Physiol** 1997 Jan;272(1 Pt 2):R1–5
Corticosterone modulates behavioral and metabolic effects of lipopolysaccharide. Johnson RW, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R192–8
Intrathecal adenosine analog administration reduces substance P in cerebrospinal fluid along with behavioral effects that suggest antinociception in rats. Sjölund KF, et al. **Anesth Analg** 1997 Sep;85(3):627–32
Behavioral effects of volatile anesthetics in Caenorhabditis elegans. Crowder CM, et al. **Anesthesiology** 1996 Oct; 85(4):901–12
Adolescent stress alters ethanol ingestion and agonistic behavior in the male golden hamster. Ferris CF, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:348–51
Serotonin diminishes aggression by suppressing the activity of the vasopressin system. Ferris CF. **Ann N Y Acad Sci** 1996 Sep 20;794:98–103
Fluoxetine effects on serotonin function and aggressive behavior. Fuller RW. **Ann N Y Acad Sci** 1996 Sep 20; 794:90–7
Development of VIP agonists and antagonists with tissue and receptor specificity: effects on behavioral maturation, sexual function, and the biologic clock. Gozes I, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:159–69; discussion 169–71 (60 ref.)
Alteration of G protein subclass mRNAs in methamphetamine–induced behavioral sensitization. Iwasa H, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:110–5
Does an increase of cyclic AMP prevent methamphetamine–induced behavioral sensitization in rats? Iyo M, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:377–83
Adolescent anabolic steroid use and aggressive behavior in golden hamsters. Melloni RH Jr, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:372–5
Chronic cocaine exposure throughout gestation in the rhesus monkey. Pregnancy outcomes and offspring behavior. Paule MG, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:301–9
Primate displacement activities as an ethopharmacological model of anxiety. Schino G, et al. **Anxiety** 1996;2(4):186–91
Behavioral and physiological effects of acute sublethal exposure to dimethoate on wood mice, Apodemus sylvaticus. Dell'Omo G, et al. **Arch Environ Contam Toxicol** 1996 Jul;31(1):91–7
Behavioral effects of acute sublethal exposure to dimethoate on wood mice, Apodemus sylvaticus: II––Field studies on radio–tagged mice in a cereal ecosystem. Dell'Omo G, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):538–42
Behavior of captive american kestrels hatched from o,p'–dicofol exposed females. MacLellan KN, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):411–5
Behavioral effects of waterborne carbofuran in goldfish. Saglio P, et al. **Arch Environ Contam Toxicol** 1996 Aug; 31(2):232–8
Effects of dopaminergic agents on visceral pain measured by the mouse writhing test. Frussa–Filho R, et al. **Arch Int Pharmacodyn Ther** 1996 Jan–Feb;331(1):74–93
Neuronal changes induced by chronic toluene exposure in the cat. Saavedra H, et al. **Arch Ital Biol** 1996 Jul; 134(3):217–25
Impairment of schedule–controlled behavior by pre– and postnatal exposure to hexachlorobenzene in rats. Lilienthal H, et al. **Arch Toxicol** 1996;70(3–4):174–81
Behavioural disturbances in adult CD–1 mice and absence of effects on their offspring upon SO2 exposure. Petruzzi S, et al. **Arch Toxicol** 1996;70(11):757–66
Detection of serotonergic and noradrenergic antidepressants in the rat forced swimming test: the effects of water depth. Detke MJ, et al. **Behav Brain Res** 1996;73(1–2):43–6 (20 ref.)
Electrophysiological, biochemical, neurohormonal and behavioural studies with WAY–100635, a potent, selective and silent 5–HT1A receptor antagonist. Fletcher A, et al. **Behav Brain Res** 1996;73(1–2):337–53
Behavioral measures of anxiety during opiate withdrawal. Grasing K, et al. **Behav Brain Res** 1996 Oct;80(1–2):195–201
Effects of the subacute administration of nefiracetam on abnormal behavior in aged rats. Hasegawa M, et al. **Behav Brain Res** 1996 Aug;78(2):93–100
Ibotenic acid lesions of prefrontal cortex do not prevent expression of behavioral sensitization to amphetamine. Li Y, et al. **Behav Brain Res** 1997 Mar;84(1–2):285–9
Functional changes induced by neonatal cerebral 6–hydroxydopamine treatment: effects of dose levels on behavioral parameters. Luthman J, et al. **Behav Brain Res** 1997 Jan;82(2):213–21
Ethological and 6–[18F]fluoro–L–DOPA–PET profiles of long–term vulnerability to chronic amphetamine. Melega WP, et al. **Behav Brain Res** 1997 Mar;84(1–2):259–68
Behavioral and neurochemical effects of a chronic choline–deficient diet in the rat. Molinengo L, et al. **Behav Brain Res** 1997 Mar;84(1–2):145–50
Reversal of amphetamine–induced behaviours by MDL 100,907, a selective 5–HT2A antagonist. Moser PC, et al. **Behav Brain Res** 1996;73(1–2):163–7
The behavioral and neurochemical effects of phenyclidine in humans and animals: some implications for modeling psychosis. Steinpresis RE. **Behav Brain Res** 1996 Jan; 74(1–2):45–55 (195 ref.)
Neonatal hippocampal lesions induced hyperresponsiveness to amphetamine: behavioral and in vivo microdialysis studies. Wan RQ, et al. **Behav Brain Res** 1996 Aug; 78(2):211–23
Effects of repeated treatment with methamphetamine plus scopolamine and methamphetamine on behavioral sensitization and conditioning. Yui K, et al. **Behav Brain Res** 1996 Oct;80(1–2):169–75
Repeated isolation in the neonatal rat produces alterations in behavior and ventral striatal dopamine release in the juvenile after amphetamine challenge. Kehoe P, et al. **Behav Neurosci** 1996 Dec;110(6):1435–44
Effect of dopamine antagonism on the behavioral and hemodynamic responses to cocaine in piglets. Monitto CL, et al. **Biol Neonate** 1996;70(1):52–9
Effects of dietary vegetable oils on behavior and drug responses in mice. Kameyama T, et al. **Biol Pharm Bull** 1996 Mar;19(3):400–4
Possible therapeutic effect of T–794, a novel reversible inhibitor of monoamine oxidase–A, on post–stroke emotional disturbances, assessed in animal models of depression. Kato M, et al. **Biol Pharm Bull** 1997 Apr; 20(4):349–53
Chronic anti–ataxic actions of the novel thyrotropin–releasing hormone (TRH) analog, TA–0910, during and after repeated administration in Rolling mouse Nagoya: behavioral and pharmacokinetic studies. Kinoshita K, et al. **Biol Pharm Bull** 1997 Jan;20(1):36–9
Behavioral studies on alkaloids extracted from the leaves of Hunteria zeylanica [published erratum appears in Biol Pharm Bull 1996 Jun;19(6):909] Leewanich P, et al. **Biol Pharm Bull** 1996 Mar;19(3):394–9
A high linoleate and a high alpha–linolenate diet induced changes in learning behavior of rats. Effects of a shift in diets and reversal of training stimuli. Okaniwa Y, et al. **Biol Pharm Bull** 1996 Apr;19(4):536–40
Neuropharmacological actions of Pluchea indica Less root extract in socially isolated mice. Thongpraditchote S, et al. **Biol Pharm Bull** 1996 Mar;19(3):379–83
Opioid receptor agonists selective for mu and kappa receptors attenuate methamphetamine–induced behavioral sensitization in the mouse. Toyoshi T, et al. **Biol Pharm Bull** 1996 Mar;19(3):369–74
Effects of repeated cocaine administration on sensory inhibition in rats: preliminary data. Boutros NN, et al. **Biol Psychiatry** 1997 Feb 15;41(4):461–6
Effects of dopamine agonists on Cebus apella monkeys with previous long–term exposure to fluphenazine. Lifshitz K, et al. **Biol Psychiatry** 1997 Mar 15;41(6):657–67
Physiological and behavioural effects of the endogenous cannabinoid, arachidonylethanolamide (anandamide), in the rat. Stein EA, et al. **Br J Pharmacol** 1996 Sep;119(1):107–14
Effects of fetal alcohol exposure on fever, sickness behavior, and pituitary–adrenal activation induced by interleukin–1

beta in young adult rats. Yirmiya R, et al. **Brain Behav Immun** 1996 Sep;10(3):205–20

MK–801 differentially affects dopamine D1 and D2 receptor agonist–induced behavioral tolerance and desensitization. Asin KE, et al. **Brain Res** 1996 Jun 24;725(1):67–74

Glutamate and vasopressin interact to control scent marking in Syrian hamsters (Mesocricetus auratus). Bamshad M, et al. **Brain Res** 1996 Aug 26;731(1–2):213–6

Elevated striatal dopamine levels following administration of D–DOPA and its alpha–keto acid metabolite DHPPA: behavioral and physiological studies in vivo in the rat. Brannan T, et al. **Brain Res** 1996 Apr 29;718(1–2):165–8

Chronic antidepressant drug treatment reduces turning behavior and increases dopamine levels in the medial prefrontal cortex. Carlson JN, et al. **Brain Res** 1996 Jan 22;707(1):122–6

The neurochemical and behavioral effects of beta–amyloid peptide(25–35). Chen SY, et al. **Brain Res** 1996 May 13; 720(1–2):54–60

Changes in apomorphine pharmacodynamics following repeated treatment in 6–hydroxydopamine–lesioned rats. Gancher S, et al. **Brain Res** 1996 Aug 12;729(2):190–6

Perinatal cocaine reduces responsiveness to cocaine and causes alterations in exploratory behavior and visual discrimination in young–adult rats. Giustino A, et al. **Brain Res** 1996 Jul 29;728(2):149–56

Effects of nitric oxide synthase inhibitors on cocaine sensitization. Haracz JL, et al. **Brain Res** 1997 Jan 23; 746(1–2):183–9

Nitric oxide synthase inhibitors produce phencyclidine–like behavioral effects in pigeons. Jewett DC, et al. **Brain Res** 1996 Apr 9;715(1–2):25–31

A continuous striatal infusion of 6–hydroxydopamine produces a terminal axotomy and delayed behavioral effects. Jones BE, et al. **Brain Res** 1996 Feb 19; 709(2):275–84

The role of the frontal cortex in the mouse in behavioral sensitization to amphetamine. Karler R, et al. **Brain Res** 1997 May 23;757(2):228–35

Attenuation of nociceptive responses by ACEA–1021, a competitive NMDA receptor/glycine site antagonist, in the mice. Lutfy K, et al. **Brain Res** 1996 Dec 16;743(1–2):17–23

Medial septal injection of naloxone elevates acetylcholine release in the hippocampus and induces behavioral seizures in rats. Mizuno T, et al. **Brain Res** 1996 Mar 25;713(1–2):1–7

Behaviors and neurodegeneration induced by two blockers of K+ channels, the mast cell degranulating peptide and Dendrotoxin I. Mourre C, et al. **Brain Res** 1997 Jul 11; 762(1–2):223–7

Involvement of GABAB receptor systems in action of antidepressants. II: Baclofen attenuates the effect of desipramine whereas muscimol has no effect in learned helplessness paradigm in rats. Nakagawa Y, et al. **Brain Res** 1996 Jul 29;728(2):225–30

The differential contribution of capsaicin–sensitive afferents to behavioral and cardiovascular measures of brief and persistent nociception and to Fos expression in the formalin test. Peterson MA, et al. **Brain Res** 1997 Apr 25;755(1):9–16

Systemic ketamine attenuates nociceptive behaviors in a rat model of peripheral neuropathy. Qian J, et al. **Brain Res** 1996 Apr 9;715(1–2):51–62

Differential anxiolytic effects of neurosteroids in the mirrored chamber behavior test in mice. Reddy DS, et al. **Brain Res** 1997 Mar 28;752(1–2):61–71

Effects of Alzene and tacrine on water maze reference and working memory function in medial septal–lesioned rats. Riekkinen P Jr, et al. **Brain Res** 1996 Apr 1;714(1–2):118–24

Spinally–mediated behavioural responses evoked by intrathecal high–dose morphine: possible involvement of substance P in the mouse spinal cord. Sakurada T, et al. **Brain Res** 1996 Jun 17;724(2):213–21

The role of limbic vasopressin and oxytocin in social recognition. van Wimersma Greidanus TB, et al. **Brain Res** 1996 Mar 25;713(1–2):153–9

Effects of NMDA–R1 antisense oligodeoxynucleotide administration: behavioral and radioligand binding studies. Zapata A, et al. **Brain Res** 1997 Jan 16;745(1–2):114–20

Systemic capsaicin pretreatment fails to block the decrease in food–motivated behavior induced by lipopolysaccharide and interleukin–1beta. Bret–Dibat JL, et al. **Brain Res Bull** 1997;42(6):443–9

Effects of microinjections of substance P into the suprachiasmatic nucleus region on hamster wheel–running rhythms. Piggins HD, et al. **Brain Res Bull** 1997;42(6):451–5

Intra–ventral tegmental area administration of H7 delays, but does not prevent the development of cocaine–induced sensitization. Steketee JD. **Brain Res Bull** 1997;43(6):565–71

Effects of acute and chronic cocaine administration on EEG and behaviour in intact and castrated male and intact and ovariectomized female rats. van Luijtelaar EL, et al. **Brain Res Bull** 1996;40(1):43–50

Repeated acquisition and the assessment of centrally acting compounds. Cohn J, et al. **Brain Res Cogn Brain Res** 1996 Jun;3(3–4):183–91 (60 ref.)

End–capped antisense oligodeoxynucleotides effectively inhibit gene expression in vivo and offer a low–toxicity alternative to fully modified phosphorothioate oligodeoxynucleotides. Hebb MO, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):223–8

Hippocampal glucocorticoid receptor mRNA is up–regulated by acute and down–regulated by chronic amphetamine treatment. Shilling PD, et al. **Brain Res Mol Brain Res** 1996 May;38(1):156–60

A comparative study of the anorectic and behavioral effects of fenproporex on male and female rats. Mattei R, et al. **Braz J Med Biol Res** 1996 Aug;29(8):1025–30

Crotoxin–induced behavioral effects in rats. Moreira EG, et al. **Braz J Med Biol Res** 1996 May;29(5):629–32

Effects of haloperidol on behavioral responses induced by electrical stimulation of medial prefrontal cortex. Nakamura–Palacios EM. **Braz J Med Biol Res** 1996 Oct; 29(10):1349–53

Toxic effects of sewage sludges on freshwater edible fish Cirrhina mrigala. Pereira L, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):467–74

Hyperactive behavioural effects induced by intranigral infusion of a pyridinium metabolite of haloperidol in rats. Fang J. **Can J Physiol Pharmacol** 1996 Dec;74(12):1359–61

Selective reduction in domoic acid toxicity in vivo by a novel non–N–methyl–D–aspartate receptor antagonist. Tasker RA, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1047–54

Anticipatory contrast effect in rats: a new view with lick response analysis and the effect of dopamine blocking. Chen BH, et al. **Chin J Physiol** 1996;39(4):235–43

Behavior genetics of drug sensitization. Phillips TJ. **Crit Rev Neurobiol** 1997;11(1):21–33 (90 ref.)

Behavioral deficits induced by bingelike exposure to alcohol in neonatal rats: importance of developmental timing and number of episodes. Thomas JD, et al. **Dev Psychobiol** 1996 Jul;29(5):433–52

Neurobehavioral development of neonatal rats after in–utero hypothyroxinemia: efficacy of prenatal thyroxine treatment. Weller A, et al. **Early Hum Dev** 1996 Sep 20; 46(1–2):63–76

Effects of hypoxia on valve–closure time and bioaccumulation of 2,4,5–trichlorophenol by the freshwater clam Sphaerium corneum [L.] Heinonen J, et al. **Ecotoxicol Environ Saf** 1997 Feb;36(1):49–56

Central oxytocin administration reduces stress–induced corticosterone release and anxiety behavior in rats. Windle RJ, et al. **Endocrinology** 1997 Jul;138(7):2829–34

Economical test methods for developmental neurobehavioral toxicity. Bignami G. **Environ Health Perspect** 1996 Apr;104 Suppl 2:285–98 (12 ref.)

Ethological and experimental approaches to behavior analysis: implications for ecotoxicology. Cohn J, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:299–305 (55 ref.)

Appropriate end points for the characterization of behavioral changes in developmental toxicology. Cuomo V, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:307–15 (133 ref.)

Dose–response analysis in risk assessment: evaluation of behavioral specificity. Glowa JR. **Environ Health Perspect** 1996 Apr;104 Suppl 2:391–6

Neurobehavioral epidemiology: application in risk assessment. Grandjean P, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:397–400 (30 ref.)

Risk assessment for neurobehavioral toxicity: SGOMSEC joint report. Hattis D, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:217–26 (43 ref.)

Behavioral methods and organic solvents: questions and consequences. Iregren A. **Environ Health Perspect** 1996 Apr;104 Suppl 2:361–6 (56 ref.)

Animal behavioral methods in neurotoxicity assessment: SGOMSEC joint report. Kulig B, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:193–204 (107 ref.)

Disrupted patterns of behavior in natural populations as an index of ecotoxicity. Peakall DB. **Environ Health Perspect** 1996 Apr;104 Suppl 2:331–5 (33 ref.)

Behavioral effects of lead: commonalities between experimental and epidemiologic data. Rice DC. **Environ Health Perspect** 1996 Apr;104 Suppl 2:337–51 (119 ref.)

Neurobehavioral aspects of developmental toxicity testing. Ulbrich B, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:407–12 (16 ref.)

The intersection of risk assessment and neurobehavioral toxicity. Weiss B, et al. **Environ Health Perspect** 1996 Apr; 104 Suppl 2:173–7

Simple neurobehavioral functional observational battery and objective gait analysis validation by the use of acrylamide and methanol with a built–in recovery period. Youssef AF, et al. **Environ Res** 1997;73(1–2):52–62

Modification of kainate–induced behavioral and electrographic seizures following inhibition of nitric oxide synthase in mice. Kirkby RD, et al. **Epilepsy Res** 1996 Jun; 24(2):79–90

Kindling with clozapine: behavioral and molecular consequences. Stevens JR, et al. **Epilepsy Res** 1996 Dec; 26(1):295–304

Spontaneous behaviours of rats are differentially affected by substantia nigra infusions of brain–derived neurotrophic factor and neurotrophin–3. Martin–Iverson MT, et al. **Eur J Neurosci** 1996 Aug;8(8):1696–706

Regional distribution of the anticonvulsant and behavioural effects of muscimol injected into the substantia nigra of rats. Shehab S, et al. **Eur J Neurosci** 1996 Apr;8(4):749–757

Monosialoganglioside attenuates the excitatory and behavioural sensitization effects of ethanol. Bellot RG, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):175–9

Modulation of 5–HT receptor subtype–mediated behaviours by corticosterone. Berendsen HH, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):103–11

The effects of abused inhalants on mouse behavior in an elevated plus–maze. Bowen SE, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):131–6

Pharmacological characterization of AMPA–induced biting behaviour in mice. Brambilla A, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):115–7

Behavioural sensitization of mesolimbic dopamine D2 receptors in chronic fluoxetine–treated rats. Collu M, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):123–7

Altered behavioral sensitivity of Ca(2+)–modulating drugs after chronic nicotine administration in mice. Damaj MI. **Eur J Pharmacol** 1997 Mar 19;322(2–3):129–35

Comparison of the stimulus properties of ethanol and the Ca2+ channel antagonist nimodipine in rats. De Beun R, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):5–13

Effects of 7–nitroindazole, NG–nitro–L–arginine, and D–CPPene on harmaline–induced postural tremor, N–methyl–D–aspartate–induced seizures, and lisuride–induced rotations in rats with nigral 6–hydroxydopamine lesions. Eblen F, et al. **Eur J Pharmacol** 1996 Mar 28;299(1–3):9–16

Adenosine A2A receptor antagonism potentiates L–DOPA–induced turning behaviour and c–fos expression in 6–hydroxydopamine–lesioned rats. Fenu S, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):143–7

Normethylclozapine potentiates the action of quinpirole in the 6–hydroxydopamine lesioned rat. Fox S, et al. **Eur J Pharmacol** 1996 Apr 22;301(1–3):27–30

The anxiolytics CI–988 and chlordiazepoxide fail to reduce immediate early gene mRNA stimulation following exposure to the rat elevated X–maze. Hinks GL, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):153–61

Intrathecally administered c–fos antisense oligodeoxynucleotide decreases formalin–induced nociceptive behavior in adult rats. Hou WY, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):17–26

Reduction of dopamine release and synthesis by repeated amphetamine treatment: role in behavioral sensitization. Imperato A, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2–3):231–7

Effect of citalopram, a selective serotonin reuptake inhibitor, on the acquisition of conditioned freezing. Inoue T, et al. **Eur J Pharmacol** 1996 Sep 5;311(1):1–6

Prevention of methamphetamine–induced behavioral sensitization in rats by a cyclic AMP phosphodiesterase inhibitor, rolipram. Iyo M, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):163–70

The cocaine–like behavioral effects of meperidine are mediated by activity at the dopamine transporter. Izenwasser S, et al. **Eur J Pharmacol** 1996 Feb 15; 297(1–2):9–17

(+)–SKF–10,047 and dextromethorphan ameliorate conditioned fear stress through the activation of phenytoin–regulated sigma 1 sites. Kamei H, et al. **Eur J Pharmacol** 1996 Mar 28;299(1–3):21–8

Effects of 5–HT1A receptor ligands in a modified Geller–Seifter conflict model in the rat. King CM, et al. **Eur J Pharmacol** 1997 May 1;325(2–3):121–8

In vivo functional interaction between phencyclidine binding sites and sigma receptors to produce head–weaving behavior in rats. Kitaichi K, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):205–11

Role of 5–HT1A receptors in the ability of mixed 5–HT1A receptor agonist/dopamine D2 receptor antagonists to inhibit methylphenidate–induced behaviors in rats. Kleven M, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):25–34

Behavioural effects of 7–OH–DPAT are solely due to stimulation of dopamine D2 receptors in the shell of the nucleus accumbens; jaw movements. Koshikawa N, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):227–34

Behavioural effects of 7–OH–DPAT are solely due to stimulation of dopamine D2 receptors in the shell of the nucleus accumbens; turning behaviour. Koshikawa N, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):235–41

Modulation of cocaine intravenous self–administration in drug–naive animals by dihydropyridine Ca2+ channel modulators. Kuzmin A, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):19–25

Valproate and its major metabolite E–2–en–valproate induce different effects on behaviour and brain monoamine metabolism in rats. Löscher W, et al. **Eur J Pharmacol** 1996 Mar 28;299(1–3):61–7

Behavioural analysis of changes in nociceptive thresholds produced by remoxipride in sheep and rats. Main DC, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):221–31

Carbamazepine normalizes the altered behavioral and neurochemical response to stress in benzodiazepine–withdrawn rats. Martijena ID, et al. **Eur J Pharmacol** 1997 Jul 9;330(2–3):101–8

Intranigral or intrastriatal injections of GDNF: effects on monoamine levels and behavior in rats. Martin D, et al. **Eur J Pharmacol** 1996 Dec 19;317(2–3):247–56

Dopamine receptor antagonists attenuate conditioned place preference following sexual behavior in female Syrian hamsters. Meisel RL, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):21–4

Effects of MPTP on lever–pressing for light extinction in rats. Messaoudi M, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1–3):17–20

Pretreatment with pertussis toxin spinally, but not

supraspinally, blocks the cold water swimming-induced antinociception in the mouse. Mizoguchi H, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):37-40

A comparison of the effects of 8-OH-DPAT pretreatment of different behavioural responses to 8-OH-DPAT. O'Connell MT, et al. **Eur J Pharmacol** 1996 Sep 26; 312(2):137-43

Facilitation and attenuation of social recognition in rats by different oxytocin-related peptides. Popik P, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):113-6

Partial role of 5-HT2 and 5-HT3 receptors in the activity of antidepressants in the mouse forced swimming test. Redrobe JP, et al. **Eur J Pharmacol** 1997 May 1; 325(2-3):129-35

'Quality of life' after therapy in rats with myocardial infarction: dissociation between hemodynamic and behavioral improvement. Schoemaker RG, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):17-25

Hyperactivity and behavioral seizures in rodents following treatment with the dopamine D1 receptor agonists A-86929 and ABT-431. Shiosaki K, et al. **Eur J Pharmacol** 1996 Dec 19;317(2-3):183-90

Effects of 5-HT4 receptor antagonists on rat behaviour in the elevated plus-maze test. Silvestre JS, et al. **Eur J Pharmacol** 1996 Aug 15;309(3):219-22

Activation of ventral tegmental GABAB receptors inhibits morphine-induced place preference in rats. Tsuji M, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):169-73

Behavioural evidence for cholecystokinin-dopamine D1 receptor interactions in the rat. Van Kampen J, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):7-15

Discriminative stimulus effects of the endogenous neuroactive steroid pregnanolone. Vanover KE. **Eur J Pharmacol** 1997 May 30;327(2-3):97-101

Anxioselective properties of 6,3'-dinitroflavone, a high-affinity benzodiazepine receptor ligand. Wolfman C, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):23-30

Effects of ginsenosides on impaired performance caused by scopolamine in rats. Yamaguchi Y, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):149-51

Effects of ginsenosides on maze performance and brain choline acetyltransferase activity in scopolamine-treated young rats and aged rats. Yamaguchi Y, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):37-41

An endogenous opiate mechanism seems to be involved in stress-induced anhedonia. Zurita A, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):1-7

Neurosteroids and the naloxone-precipitated withdrawal syndrome in morphine-dependent mice. Budziszewska B, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):135-40

Behavioural responsiveness to picrotoxin and desipramine in adult rats prenatally exposed to different benzodiazepine receptor agonists. Cannizzaro C, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):523-6

The effects of the 5-HT1A agonist flesinoxan, in three paradigms for assessing antidepressant potential in the rat. Cryan JF, et al. **Eur Neuropsychopharmacol** 1997 May; 7(2):109-14

The effects of repeated administration of diazepam, MK-801 and CGP 37849 on rat behavior in two models of anxiety. Jessa M, et al. **Eur Neuropsychopharmacol** 1996 Mar; 6(1):55-61

Intracerebroventricular La3+ but not Gd3+ inhibits cocaine-induced motor activation in rats. Kuzmin AV, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):183-5

5HT2C receptor agonists exhibit antidepressant-like properties in the anhedonia model of depression in rats. Moreau JL, et al. **Eur Neuropsychopharmacol** 1996 Aug; 6(3):169-75

Phorbol ester intracerebroventricularly induces a behavioral hypoactivity that is not affected by chronic or acute lithium. Patishi Y, et al. **Eur Neuropsychopharmacol** 1996 Mar;6(1):39-41

Behavioural and immunological effects of the antihistamine terfenadine in olfactory bulbectomized rats. Song C, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):157-62

The behavioral effects of habituation and challenge with apomorphine after 6-OHDA lesioning of the nucleus accumbens in rats. Vos PE, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):471-6

Bupropion induces sniffing: a possible dopaminergic mechanism. Zarrindast MR, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):299-303

A quantity of stereotyped behavior of ddY mice induced by low-dose methamphetamine. Masuda Y, et al. **Exp Anim** 1996 Jul;45(3):279-81

Behavioral effects of GM1 ganglioside treatment and intrahippocampal septal grafts in rats with fimbria-fornix lesions. Roeser C, et al. **Exp Brain Res** 1997 Jul; 115(3):520-30

Circling behaviour induced by apomorphine after lesions of the habenula. Wickens AP, et al. **Exp Brain Res** 1996 Apr; 109(1):17-21

Intranigral transplants of fetal ventral mesencephalic tissue attenuate D1-agonist-induced rotational behavior. Yurek DM. **Exp Neurol** 1997 Jan;143(1):1-9

Reproductive and neurobehavioural effects of lac dye administered in the diet to mice. Tanaka T. **Food Addit Contam** 1997 May-Jun;14(4):373-80

A comparison of the acute behavioral effects of inhaled amyl, ethyl, and butyl acetate in mice. Bowen SE, et al. **Fundam Appl Toxicol** 1997 Feb;35(2):189-96

Concentration-time relationships for the effects of inhaled trichloroethylene on signal detection behavior in rats. Bushnell PJ. **Fundam Appl Toxicol** 1997 Mar;36(1):30-8

Subchronic neurotoxicity screening studies with six organophosphate insecticides: an assessment of behavior and morphology relative to cholinesterase inhibition. Sheets LP, et al. **Fundam Appl Toxicol** 1997 Jan;35(1):101-19

Perinatal methanol exposure in the rat. II. Behavioral effects in neonates and adults. Stern S, et al. **Fundam Appl Toxicol** 1997 Apr;36(2):163-76

Blockade by ginseng total saponin of methamphetamine-induced hyperactivity and conditioned place preference in mice. Kim HS, et al. **Gen Pharmacol** 1996 Mar;27(2):199-204

Long-term chronic treatment with stanozolol lacks significant effects on aggression and activity in young and adult male laboratory mice. Martínez-Sanchis S, et al. **Gen Pharmacol** 1996 Mar;27(2):293-8

Behavioral changes induced by GABA-receptor agonists in Lymnaea stagnalis L. Romanova EV, et al. **Gen Pharmacol** 1996 Sep;27(6):1067-71

Sex steroid-opioid interactions associated with the temporal component of avian calling patterns. Bernroider G, et al. **Horm Behav** 1996 Dec;30(4):583-9

Long-term effects of androgen treatment on fear reactions in ewes. Bouissou MF, et al. **Horm Behav** 1996 Mar; 30(1):93-9

The effects of melanocortin peptides and corticosterone on habituation in the great plains toad, Bufo cognatus. Carpenter AM, et al. **Horm Behav** 1996 Sep;30(3):236-43

Progesterone does not inhibit aggression induced by testosterone metabolites in castrated male mice. Gravance CG, et al. **Horm Behav** 1996 Mar;30(1):22-5

No changes in behaviour, nigro-striatal system neurochemistry or neuronal cell death following toxic multiple oral paraquat administration to rats. Widdowson PS, et al. **Hum Exp Toxicol** 1996 Jul;15(7):583-91

Neuropharmacological studies on Fusarium toxins--I: Total toxin extract from Fusarium moniliforme. Ganguli S, et al. **Indian J Exp Biol** 1996 May;34(5):408-17

Neuropharmacological studies on Fusarium toxins—II: Total toxin extract from F. oxysporum. Ganguli S, et al. **Indian J Exp Biol** 1996 May;34(5):418-26

Methylazoxymethanol-induced micrencephaly in the brown Norway strain: behavior and brain weight. Ferguson SA, et al. **Int J Dev Neurosci** 1997 Feb;15(1):75-86

Behavioral symptoms in adult rats after postnatal L-nitro-arginine. Wörtwein G, et al. **Int J Dev Neurosci** 1997 Apr;15(2):147-54

Study of behavior of rats with gluten-induced enteropathy. Castany MA, et al. **Int J Neurosci** 1995 Nov;83(1-2):7-15

Neurotoxic effects of acute and subchronic inhalation exposure to trimethylbenzene isomers (pseudocumene, mesitylene, hemimellitene) in rats. Korsak Z, et al. **Int J Occup Med Environ Health** 1996;9(4):341-9

Use of fluoxetine to treat dominance aggression in dogs. Dodman NH, et al. **J Am Vet Med Assoc** 1996 Nov 1; 209(9):1585-7

Integrating use of psychotropic drugs with environmental management and behavioral modification for treatment of problem behavior in animals [see comments] Hart BL, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1549-51 (6 ref.). Comment in: J Am Vet Med Assoc 1997 Jan 1;210(1):18-9.

Interpreting published results of extra-label drug use with special reference to reports of drugs used to correct problem behavior in animals. Hart BL, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1382-5 (32 ref.)

Concerns about use of psychotropic drugs [letter; comment] McMillan FD. **J Am Vet Med Assoc** 1997 Jan 1;210(1):18-9. Comment on: J Am Vet Med Assoc 1996 Nov 1;209(9):1549-51.

Rare, idiosyncratic reaction to acepromazine in dogs. Meyer EK. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1114-5

Use of fluoxetine for the treatment of stereotypical pacing behavior in a captive polar bear [see comments] Poulsen EM, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1470-4. Comment in: J Am Vet Med Assoc 1996 Dec 15;209(12):1995-6.

Intracisternal basic fibroblast growth factor (bFGF) enhances behavioral recovery following focal cerebral infarction in the rat. Kawamata T, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):542-7

Neonatal treatment of rats with the neuroactive steroid tetrahydrodeoxycorticosterone (THDOC) abolishes the behavioral and neuroendocrine consequences of adverse early life events. Patchev VK, et al. **J Clin Invest** 1997 Mar 1;99(5):962-6

Nonsteroidal antiinflammatory drug modulation of behavioral responses to intrathecal N-methyl-D-aspartate, but not to substance P and amino-methyl-isoxazole-propionic acid in the rat. Björkman R, et al. **J Clin Pharmacol** 1996 Dec;36(12 Suppl):20S-26S

Behavioral pharmacology of olanzapine: a novel antipsychotic drug. Moore NA, et al. **J Clin Psychiatry** 1997;58 Suppl 10:37-44 (28 ref.)

Pharmacological activity of Guarana (Paullinia cupana Mart.) in laboratory animals. Espinola EB, et al. **J Ethnopharmacol** 1997 Feb;55(3):223-9

Behavioural effects of Passiflora incarnata L. and its indole alkaloid and flavonoid derivatives and maltol in the mouse. Soulimani R, et al. **J Ethnopharmacol** 1997 Jun;57(1):11-20

Behavior of rats under fixed consecutive number schedules: effects of drugs of abuse. Snodgrass SH, et al. **J Exp Anal Behav** 1997 Jul;68(1):117-32

Inhibitory role of opioid peptides in the regulation of aggressive and sexual behaviors in male Japanese quails. Kotegawa T, et al. **J Exp Zool** 1997 Feb 1;277(2):146-54

Preference for background color of the Xenopus laevis tadpole. Moriya T, et al. **J Exp Zool** 1996 Dec 1; 276(5):335-44

A rat model of distractibility: effects of drugs modifying dopaminergic, noradrenergic and GABAergic neurotransmission. Agmo A, et al. **J Neural Transm** 1997; 104(1):11-29

Inositol has behavioral effects with adaptation after chronic administration. Cohen H, et al. **J Neural Transm** 1997; 104(2-3):299-305

Effects of neonatal clomipramine on cholinergic receptor sensitivity and passive avoidance behavior in adult rats. Prathiba J, et al. **J Neural Transm Gen Sect** 1995; 100(2):93-9

Corticosterone controls interleukin-1 beta expression and sickness behavior in the rat. Pezeshki G, et al. **J Neuroendocrinol** 1996 Feb;8(2):129-35

Modulation of behavioral and neurochemical measures of forebrain dopamine function in mice by species-specific interleukin-2. Petitto JM, et al. **J Neuroimmunol** 1997 Mar; 73(1-2):183-90

Crawling motor patterns induced by pilocarpine in isolated larval nerve cords of Manduca sexta. Johnston RM, et al. **J Neurophysiol** 1996 Nov;76(5):3178-95

Motor patterns for two distinct rhythmic behaviors evoked by excitatory amino acid agonists in the Xenopus embryo spinal cord. Soffe SR. **J Neurophysiol** 1996 May; 75(5):1815-25

Behavioral and neurochemical recovery from partial 6-hydroxydopamine lesions of the substantia nigra is blocked by daily treatment with glutamate receptor antagonists MK-801 and CPP. Emmi A, et al. **J Neurosci** 1996 Aug 15;16(16):5216-24

Metabotropic glutamate agonist-induced rotation: a pharmacological, FOS immunohistochemical, and [14C]-2-deoxyglucose autoradiographic study. Kearney JA, et al. **J Neurosci** 1997 Jun 1;17(11):4415-25

5HT1B receptor agonists inhibit light-induced phase shifts of behavioral circadian rhythms and expression of the immediate-early gene c-fos in the suprachiasmatic nucleus. Pickard GE, et al. **J Neurosci** 1996 Dec 15;16(24):8208-20

Repeated cocaine modifies the mechanism by which amphetamine releases dopamine. Pierce RC, et al. **J Neurosci** 1997 May 1;17(9):3254-61

Lack of delayed effects of amphetamine, methoxamine, and prazosin (adrenergic drugs) on behavioral outcome after lateral fluid percussion brain injury in the rat. Dose JM, et al. **J Neurotrauma** 1997 May;14(5):327-37

The effect of postinjury administration of polyethylene glycol-conjugated superoxide dismutase (pegorgotein, Dismutec) or lidocaine on behavioral function following fluid-percussion brain injury in rats. Hamm RJ, et al. **J Neurotrauma** 1996 Jun;13(6):325-32

Arachidonic acid offsets the effects on mouse brain and behavior of a diet with a low (n-6):(n-3) ratio and very high levels of docosahexaenoic acid. Wainwright PE, et al. **J Nutr** 1997 Jan;127(1):184-93

Neuropharmacological effects of extracts from Sickingia williamsii. Capasso A, et al. **J Pharm Pharmacol** 1996 Jun; 48(6):592-5

Behavioural subsensitivity induced by long-term administration of a low dose of haloperidol to rats. Frussa-Filho R, et al. **J Pharm Pharmacol** 1997 Apr; 49(4):412-5

Effect of tachykinin receptor inhibition in the brain on cardiovascular and behavioral responses to stress. Culman J, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):238-46

Glucocorticoids and behavioral effects of psychostimulants. II: cocaine intravenous self-administration and reinstatement depend on glucocorticoid levels. Deroche V, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1401-7

Effects of the structurally novel opioid 14 alpha, 14' beta-[dithiobis [(2-oxo-2,1-ethanediyl)imino]]bis(7,8-dihydromorphinone) on schedule-controlled behavior and thermal nociception in rhesus monkeys. Gatch MB, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1282-9

Pharmacological characterization of in vivo properties of putative mixed 5-HT1A agonist/5-HT(2A/2C) antagonist anxiolytics. II. Drug discrimination and behavioral observation studies in rats. Kleven MS, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):747-59

Extracellular dopamine and amphetamine after systemic amphetamine administration: comparison to the behavioral response. Kuczenski R, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):591-6

Effects of drugs on response duration differentiation. V: differential effects under temporal response differentiation schedules. McClure GY, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1357-67

Effects of drugs on response duration differentiation. VI: differential effects under differential reinforcement of low rates of responding schedules. McClure GY, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1368-80

Synergistic behavioral interaction between ethanol and

clonidine in rats: role of alpha-2 adrenoceptors. Mao L, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):443-9

Effect of cytochrome P450 2D1 inhibition on hydrocodone metabolism and its behavioral consequences in rats. Tomkins DM, et al. **J Pharmacol Exp Ther** 1997 Mar; 280(3):1374-82

CP-96,345, which inhibits [3H] substance P binding, selectively inhibits the behavioral response to intrathecally administered N-methyl-D-aspartate, but not substance P, in the mouse. Velázquez RA, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1231-7

Direct injection of 5-HT2A receptor agonists into the medial prefrontal cortex produces a head-twitch response in rats. Willins DL, et al. **J Pharmacol Exp Ther** 1997 Aug; 282(2):699-706

Mechanism of clocinnamox blockade of opioid receptors: evidence from in vitro and ex vivo binding and behavioral assays. Zernig G, et al. **J Pharmacol Exp Ther** 1996 Oct; 279(1):23-31

A comparative study of cardiovascular, endocrine and behavioural effects of betamethasone and dexamethasone administration to fetal sheep. Derks JB, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):217-26

Reversible inactivations of the cerebellum prevent the extinction of conditioned nictitating membrane responses in rabbits. Ramnani N, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):159-68

The effects of flumazenil, Ro 15-4513 and beta-CCM on the behaviour of control and stressed mice in the plus-maze test. Pokk P, et al. **J Physiol Pharmacol** 1997 Jun; 48(2):253-61

The effect of central and systemic injection of the 5-HT1A receptor agonist 8-OHDPAT and the 5-HT1A receptor antagonist WAY100635 on periaqueductal grey-induced defence behaviour. Beckett S, et al. **J Psychopharmacol (Oxf)** 1997;11(1):35-40

Behavioural effects of selective serotonin reuptake inhibitors following direct micro injection into the left red nucleus of the rat. Faherty CJ, et al. **J Psychopharmacol (Oxf)** 1997; 11(1):53-8

Stimulation and blockade of alpha1 adrenoceptors affect behavioural activity, but not spatial working memory assessed by delayed non-matching to position task in rats. Puumala T, et al. **J Psychopharmacol (Oxf)** 1997; 11(1):45-51

Antisense oligonucleotides in psychopharmacology and behaviour: promises and pitfalls. Robinson ES, et al. **J Psychopharmacol (Oxf)** 1997;11(3):259-69 (100 ref.)

Synthetic trehalose dicorynomycolate (S-TDCM): behavioral effects and radioprotection. Landauer MR, et al. **J Radiat Res (Tokyo)** 1997 Mar;38(1):45-54

The behaviour of healthy awake cats following intravenous and intramuscular administration of midazolam. Ilkiw JE, et al. **J Vet Pharmacol Ther** 1996 Jun;19(3):205-16

The effect of intravenous administration of variable-dose midazolam after fixed-dose ketamine in healthy awake cats. Ilkiw JE, et al. **J Vet Pharmacol Ther** 1996 Jun;19(3):217-24

Tranquillization of cane rats (Thryonomys swinderianus) with a depot neuroleptic (pipothiazine palmitate). McCoy J, et al. **J Vet Pharmacol Ther** 1997 Jun;20(3):233-9

Facilitatory and inhibitory effects of harmaline on the tryptophan-induced 5-hydroxytryptamine syndrome and body temperature changes in pargyline-pretreated rats. Abdel-Fattah AF, et al. **Jpn J Pharmacol** 1996 Sep; 72(1):39-47

Potentiation of L-dopa-induced behavioral excitement by histamine H1-receptor antagonists in mice. Sato T, et al. **Jpn J Pharmacol** 1996 May;71(1):81-4

Day-night variations of behavioral and autonomic thermoregulatory responses to lipopolysaccharide in rats. Sugimoto N, et al. **Jpn J Physiol** 1996 Dec;46(6):451-6

Pica behavior associated with buprenorphine administration in the rat. Clark JA Jr, et al. **Lab Anim Sci** 1997 Jun; 47(3):300-3

Melanocortins and opiate addiction. Alvaro JD, et al. **Life Sci** 1997;61(1):1-9 (73 ref.)

Angiotensin II, via an action at AT1 receptors, may modulate the behavioural effects of ET-1 in conscious rats. D'Amico M, et al. **Life Sci** 1996;59(22):PL355-8

Differential potentiation of L-tryptophan-induced head-twitch response in mice by cocaine and sertraline. Darmani NA. **Life Sci** 1996;59(14):1109-19

Potentiation of LSD-induced stimulus control by fluoxetine in the rat. Fiorella D, et al. **Life Sci** 1996;59(18):PL283-7

Modulation of apomorphine-induced rotations in unilaterally 6-hydroxydopamine lesioned rats by cholinergic agonists and antagonists. Gao ZG, et al. **Life Sci** 1997;60(22):PL 317-23

The effects of an intrathecal NMDA antagonist (AP5) on the behavioral changes induced by colorectal inflammation with turpentine in rats. Ide Y, et al. **Life Sci** 1997; 60(16):1359-63

Effects of buspirone on dopaminergic supersensitivity. Queiroz CM, et al. **Life Sci** 1997;61(4):371-82

Biochemical synthesis, purification and preliminary pharmacological evaluation of normorphine-3-glucuronide. Smith GD, et al. **Life Sci** 1997;61(2):95-104

Effects of buspirone on operant and nonoperant food intake in food deprived rats. Ebenezer IS. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):475-80

Animal behavioral models for testing antianxiety agents. Kulkarni SK, et al. **Methods Find Exp Clin Pharmacol** 1996 Apr;18(3):219-30 (72 ref.)

Antianxiety profile of ondansetron, a selective 5-HT3 antagonist, in a novel animal model. Roychoudhury M, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar; 19(2):107-11

Changes in brain putrescine concentration associated with nonconvulsant behavioral patterns induced by systemic N-methyl-D-aspartate injection. Giménez-Llort L, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):289-302

In vivo regulation of central nervous system progesterone receptors: cocaine induces steroid-dependent behavior through dopamine transporter modulation of D5 receptors in rats. Apostolakis EM, et al. **Mol Endocrinol** 1996 Dec; 10(12):1595-604

Behavioural pharmacology of the non-competitive NMDA antagonists dextrorphan and ADCI: relations between locomotor stimulation, anticataleptic potential and forebrain dopamine metabolism. Bubser M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):767-73

Effects of diazepam on conflict behaviour and on plasma corticosterone levels in male and female rats. Perićić D, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):369-76

(+/-)-1-(2,5-Dimethoxy-4-ethylthiophenyl)-2-aminopropane (ALEPH-2), a novel putative anxiolytic agent lacking affinity for benzodiazepine sites and serotonin-1A receptors. Reyes-Parada M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):579-85

Long-term treatment of male F344 rats with deprenyl: assessment of effects on longevity, behavior, and brain function. Bickford PC, et al. **Neurobiol Aging** 1997 May-Jun;18(3):309-18

Bicuculline administration into basolateral amygdala facilitates trace conditioning of odor aversion in the rat. Ferry B, et al. **Neurobiol Learn Mem** 1997 Jan;67(1):80-3

The effects of central injections of calcitonin gene-related peptide on fear-related behavior. Poore LH, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):241-5

Modulation of antennal scanning in the honeybee by sucrose stimuli, serotonin, and octopamine: behavior and electrophysiology. Pribbenow B, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):109-20

Behavioral and pharmacological studies on the validation of a new animal model for attention deficit hyperactivity disorder. Puumala T, et al. **Neurobiol Learn Mem** 1996 Sep; 66(2):198-211

Some doubts about the basic concept of hole-board test. Bilkei-Gorzó A, et al. **Neurobiology (Bp)** 1996;4(4):405-15

The role of glutamate in behavioral and neurotoxic effects of methamphetamine. Ohmori T, et al. **Neurochem Int** 1996 Sep;29(3):301-7 (41 ref.)

The novel sigma ligand JO 1994 protects against ischaemia-induced behavioural changes, cell death and receptor dysfunction in the gerbil. O'Neill M, et al. **Neurochem Int** 1996 Feb;28(2):193-207

Involvement of nitric oxide in spinally mediated capsaicin- and glutamate-induced behavioural responses in the mouse. Sakurada T, et al. **Neurochem Int** 1996 Sep;29(3):271-8

Induction of brain prolactin receptor long-form mRNA expression and maternal behavior in pup-contacted male rats: promotion by prolactin administration and suppression by female contact. Sakaguchi K, et al. **Neuroendocrinology** 1996 Jun;63(6):559-68

Differential neuroendocrine and behavioral responses to cocaine in Lewis and Fischer rats. Simar MR, et al. **Neuroendocrinology** 1996 Jan;63(1):93-100

Interleukin-2-induced changes in behavioural, neurotransmitter, and immunological parameters in the olfactory bulbectomized rat. Song C, et al. **Neuroimmunomodulation** 1995 Sep-Oct;2(5):263-73

The reduction of preprotachykinin mRNA in the methamphetamine-induced behavioral sensitization. Fukamauchi F. **Neuropeptides** 1996 Feb;30(1):43-6

Chronic administration of Org2766 and morphine counteracts isolation-induced increase in social interest: implication of endogenous opioid systems. Hol T, et al. **Neuropeptides** 1996 Jun;30(3):283-91

Inhibitory effect of intrahippocampal NPY injection on amphetamine-induced behavioural activity. Smiałowska M, et al. **Neuropeptides** 1996 Feb;30(1):67-71

Inhibitory effect of NPY on the picrotoxin-induced activity in the hippocampus: a behavioural and electrophysiological study. Smiałowska M, et al. **Neuropeptides** 1996 Feb; 30(1):7-12

L-740,093, a new antagonist of the CCK-B receptor, potentiates the antinociceptive effect of morphine: electrophysiological and behavioural studies. Xu XJ, et al. **Neuropeptides** 1996 Apr;30(2):203-6

The pharmacology of the novel and selective sigma ligand, PD 144418. Akunne HC, et al. **Neuropharmacology** 1997 Jan;36(1):51-62

Effect of differential rearing environments on morphine-induced behaviors, opioid receptors and dopamine synthesis. Bardo MT, et al. **Neuropharmacology** 1997 Feb;36(2):251-9

The behavioural and neurochemical profile of the putative dopamine D3 receptor agonist, (+)-PD 128907, in the rat. Bristow LJ, et al. **Neuropharmacology** 1996 Mar; 35(3):285-94

A behavioural and neurochemical study in rats of the pharmacology of loreclezole, a novel allosteric modulator of the GABAA receptor. Green AR, et al. **Neuropharmacology** 1996;35(9-10):1243-50

A comparative study of the effects of selective and non-selective 5-HT2 receptor subtype antagonists in rat and mouse models of anxiety. Griebel G, et al. **Neuropharmacology** 1997 Jun;36(6):793-802

The effects of cholecystokinin A and B receptor antagonists on exploratory behaviour in the elevated zero-maze in rat. Matto V, et al. **Neuropharmacology** 1997 Mar;36(3):389-96

Effects of the (+) and (-) enantiomers of the antidepressant drug tianeptine on 5-HTP-induced behaviour. Oluyomi AO, et al. **Neuropharmacology** 1997 Mar;36(3):383-7

The dopamine agonists lisuride and piribedil protect against behavioural and histological changes following 4-vessel occlusion in the rat. Caldwell MA, et al. **Neuropsychobiology** 1996;34(3):117-24

Effect of chronic pretreatment with the sigma ligand JO 1784 on CRF-induced changes in behaviour, neurotransmitter and immunological function in the rat. Song C, et al. **Neuropsychobiology** 1997;35(4):200-4

7-Nitroindazole and methylene blue, inhibitors of neuronal nitric oxide synthase and NO-stimulated guanylate cyclase, block MK-801-elicited behaviors in mice. Deutsch SI, et al. **Neuropsychopharmacology** 1996 Jul;15(1):37-43

The competitive NMDA antagonist CPP blocks MK-801-elicited popping behavior in mice. Deutsch SI, et al. **Neuropsychopharmacology** 1996 Oct;15(4):329-31

Activity of "seroquel" (ICI 204,636) in animal models for atypical properties of antipsychotics: a comparison with clozapine. Ellenbroek BA, et al. **Neuropsychopharmacology** 1996 Oct;15(4):406-16

A selective AMPA antagonist, LY293558, suppresses morphine withdrawal-induced activation of locus coeruleus neurons and behavioral signs of morphine withdrawal. Rasmussen K, et al. **Neuropsychopharmacology** 1996 Nov;15(5):497-505

1192U90 in animal tests that predict antipsychotic efficacy, anxiolysis, and extrapyramidal side effects. Rigdon GC, et al. **Neuropsychopharmacology** 1996 Sep;15(3):231-42

Baclofen attenuates the reinforcing effects of cocaine in rats. Roberts DC, et al. **Neuropsychopharmacology** 1996 Oct; 15(4):417-23

Presymptomatic revelation of experimental parkinsonism. Bezard E, et al. **Neuroreport** 1997 Jan 20;8(2):435-8

Hypersensitivity of lurcher mutant mice to the depressing effects of lipopolysaccharide and interleukin-1 on behaviour. Bluthé RM, et al. **Neuroreport** 1997 Mar 24; 8(5):1119-22

Spinally delivered nociceptin/orphanin FQ reduces flinching behaviour in the rat formalin test. Erb K, et al. **Neuroreport** 1997 May 27;8(8):1967-70

Comparison of nociceptive effects produced by intrathecal administration of mGluR agonists. Fisher K, et al. **Neuroreport** 1996 Nov 4;7(15-17):2743-7

Trigeminovascular stimulation in conscious rats. Kemper RH, et al. **Neuroreport** 1997 Mar 24;8(5):1123-6

Urocortin, a novel neuropeptide with anxiogenic-like properties. Moreau JL, et al. **Neuroreport** 1997 May 6; 8(7):1697-701

Acute administration of the CB1 cannabinoid receptor antagonist SR 141716A induces anxiety-like responses in the rat. Navarro M, et al. **Neuroreport** 1997 Jan 20; 8(2):491-6

Nitric oxide prolongs parturition and inhibits maternal behavior in rats. Okere CO, et al. **Neuroreport** 1996 Jul 8;7(10):1695-9

Selective behavioral alterations on addition of a 4'-phenyl group to cocaine. Seale TW, et al. **Neuroreport** 1996 Jan 31;7(2):617-21

Anxiolytics by ethanol, diazepam and buspirone in a novel murine behavioral assay. Seale TW, et al. **Neuroreport** 1996 Jul 29;7(11):1803-8

Intrathecal and systemic R-phenylisopropyl-adenosine reduces scratching behaviour in a rat mononeuropathy model. Sjölund KF, et al. **Neuroreport** 1996 Jul 29; 7(11):1856-60

Endoneurial injection of TNF-alpha produces neuropathic pain behaviors. Wagner R, et al. **Neuroreport** 1996 Nov 25;7(18):2897-901

Peripheral administration of NMDA, AMPA or KA results in pain behaviors in rats. Zhou S, et al. **Neuroreport** 1996 Mar 22;7(4):895-900

I. Serotonin (5-HT) within dopamine reward circuits signals open-field behavior. II. Basis for 5-HT--DA interaction in cocaine dysfunctional behavior. Broderick PA, et al. **Neurosci Biobehav Rev** 1997 May;21(3):227-60 (343 ref.)

Melatonin effects on behavior: possible mediation by the central GABAergic system. Golombek DA, et al. **Neurosci Biobehav Rev** 1996 Autumn;20(3):403-12 (175 ref.)

Behavioural pharmacology of glutamate receptors in the basal ganglia. Schmidt WJ, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):381-92 (142 ref.)

Thyroid hormone metabolism in the rat brain in an animal model of 'behavioral dependence' on ethanol. Baumgartner A, et al. **Neurosci Lett** 1997 May 9;227(1):25-8

Amphetamine-induced sensitization and release of dopamine in slices from the ventral tegmental area of rats is enhanced following administration of cholera toxin into the ventral tegmental area. Byrnes JJ, et al. **Neurosci Lett** 1997 Feb 14;223(1):45-8

Conflict situation increases serotonin release in rat dorsal hippocampus: in vivo study with microdialysis and Vogel test. Matsuo M, et al. **Neurosci Lett** 1996 Sep 13; 215(3):197–200

Glial cell line–derived neurotrophic factor attenuates behavioural deficits and regulates nigrostriatal dopaminergic and peptidergic markers in 6–hydroxydopamine–lesioned adult rats: comparison of intraventricular and intranigral delivery. Lapchak PA, et al. **Neuroscience** 1997 May;78(1):61–72

Delayed occurrence of enhanced striatal preprodynorphin gene expression in behaviorally sensitized rats: differential long–term effects of intermittent and chronic morphine administration. Tjon GH, et al. **Neuroscience** 1997 Jan; 76(1):167–76

Anatomical studies of DNA fragmentation in rat brain after systemic kainate administration. Weiss S, et al. **Neuroscience** 1996 Sep;74(2):541–51

Role of nitric oxide and cyclic GMP in the dizocilpine–induced impairment of spontaneous alternation behavior in mice. Yamada K, et al. **Neuroscience** 1996 Sep; 74(2):365–74

Functional observational battery comparing effects of ethanol, 1,1,1–trichloroethane, ether, and flurothyl. Bowen SE, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):577–85

Characterization of the effects of N–hydroxy–IDPN on the auditory, vestibular, and olfactory systems in rats. Crofton KM, et al. **Neurotoxicol Teratol** 1996 May–Jun; 18(3):297–303

Functional effects of methylazoxymethanol–induced cerebellar hypoplasia in rats. Ferguson SA, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):529–37

Behavioral changes following 4–week inhalation exposure to pseudocumene (1,2,4–trimethylbenzene) in the rat. Gralewicz S, et al. **Neurotoxicol Teratol** 1997 Jul–Aug; 19(4):327–33

Comparison of behavioral, vestibular, and axonal effects of subchronic IDPN in the rat. Llorens J, et al. **Neurotoxicol Teratol** 1997 Mar–Apr;19(2):117–27

Paternal exposure of rabbits to lead: behavioral deficits in offspring. Nelson BK, et al. **Neurotoxicol Teratol** 1997 May–Jun;19(3):191–8

Behavioral characteristics of micrencephalic rats in high and low shuttlebox avoidance lines. Ohta R, et al. **Neurotoxicol Teratol** 1997 Mar–Apr;19(2):157–62

Lead and neurobehavioral development in gulls: a model for understanding effects in the laboratory and the field. Burger J, et al. **Neurotoxicology** 1997;18(2):495–506 (57 ref.)

Neurobehavioral profile of subcutaneously administered MK–801 in the rat. Haggerty GC, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):913–21

Long–lasting neurobehavioral effects of prenatal exposure to xylene in rats. Hass U, et al. **Neurotoxicology** 1997; 18(2):547–51

Social play in juvenile rats after in utero exposure to morphine. Niesink RJ, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):905–12

Changes in regional brain GFAP levels and behavioral functioning following subchronic lead acetate exposure in adult rats. Van den Berg KJ, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):725–34

Endocrine disruptors and sexually dimorphic behaviors: a question of heads and tails. Weiss B. **Neurotoxicology** 1997; 18(2):581–6 (15 ref.)

The role of excitatory amino acids in the actions of abused drugs. **NIDA Res Monogr** 1994;140:65–8

Behavioral, pharmacologic and neurobiologic variables important to the analysis of drug self–administration: implications for the discovery of potential pharmacotherapies. **NIDA Res Monogr** 1994;140:99–102

Serotonin receptor involvement in an animal model of the acute effects of hallucinogens. Geyer MA, et al. **NIDA Res Monogr** 1994;146:124–56 (59 ref.)

Long–term effects of developmental exposure to cocaine on learned and unlearned behaviors. Vorhees CV. **NIDA Res Monogr** 1996;164:3–52 (61 ref.)

The stimulus effects of serotonergic hallucinogens in animals. Winter JC. **NIDA Res Monogr** 1994;146:157–82 (73 ref.)

Drug effects: a search for outcomes. Zuckerman B. **NIDA Res Monogr** 1996;164:277–87 (29 ref.)

Sensitization of the tail–flick reflex following exposure to either a single prolonged test trial or behavioral testing under the analgesic influence of morphine. Baldwin AE, et al. **Pain** 1996 Sep;67(1):163–72

Neomycin and gadolinium applied to an L5 spinal nerve lesion prevent mechanical allodynia–like behaviour in rats. Blenk KH, et al. **Pain** 1997 Apr;70(2–3):155–65

Effects of the combined oral administration of NSAIDs and dextromethorphan on behavioral symptoms indicative of arthritic pain in rats. Price DD, et al. **Pain** 1996 Nov; 68(1):119–27

A nitric oxide synthesis inhibitor (L–NAME) reduces licking behavior and Fos–labeling in the spinal cord of rats during formalin–induced inflammation. Roche AK, et al. **Pain** 1996 Aug;66(2–3):331–41

The effects of G–protein and protein kinase inhibitors on the behavioral responses of rats to intradermal injection of capsaicin. Sluka KA, et al. **Pain** 1997 Jun;71(2):165–78

beta–Casomorphin causes hypoalgesia in 10–day–old rats: evidence for central mediation. Blass EM, et al. **Pediatr Res** 1996 Feb;39(2):199–203

Ovarian hormones alter the behavioral response of the medial preoptic anterior hypothalamus to arginine–vasopressin. Albers HE, et al. **Peptides** 1996;17(8):1359–63

Behavioral effects of alpha–MSH and MCH after central administration in the female rat. Gonzalez MI, et al. **Peptides** 1996;17(1):171–7

Enhancement of performance in multiple learning tasks by corticotropin–releasing factor–binding protein ligand inhibitors. Heinrichs SC, et al. **Peptides** 1997;18(5):711–6

An ethopharmacological analysis of selective activation of 5–HT1A receptors: the mouse 5–HT1A syndrome. Blanchard RJ, et al. **Pharmacol Biochem Behav** 1997 Aug; 57(4):897–908

Behavioral sensitization to cocaine in the absence of altered brain cocaine levels. Bonate PL, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):665–9

Effects of prolonged exposure to anabolic steroids on the behavior of male and female mice. Bronson FH. **Pharmacol Biochem Behav** 1996 Feb;53(2):329–34

Acute behavioral effects of MK–801 in the mouse. Brosnan–Watters G, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):701–11

Lead and behavioral development: parental compensation for behaviorally impaired chicks. Burger J, et al. **Pharmacol Biochem Behav** 1996 Nov;55(3):339–49

Neonatal cocaine alters behavioural responsiveness to scopolamine and cholinergic development in mice. Calamandrei G, et al. **Pharmacol Biochem Behav** 1997 Apr; 56(4):557–63

Cellular mechanisms underlying reinforcement–related processing in the nucleus accumbens: electrophysiological studies in behaving animals. Carelli RM, et al. **Pharmacol Biochem Behav** 1997 Jul;57(3):495–504 (55 ref.)

Ketanserin effects on rat behavioral responses: modifications by the estrous cycle, ovariectomy and estradiol replacement. Díaz–Véliz G, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):687–92

Influence of eticlopride on cocaine– and DA D2 agonist–induced behavioral effects in rats. Ferrari F, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):525–30

Evaluation of perinatal flumazenil effects on the behavior of female RLA/Verh rats in anxiety tests and shuttle box avoidance. Ferré P, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):475–80

Behavioral comparison of the oximes TMB–4, 2–PAM, and HI–6 in rats using operant conditioning. Genovese RF, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):139–43

Metergoline antagonizes fluoxetine–induced suppression of food intake but not changes in the behavioural satiety sequence. Halford JC, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):745–51

Responses to novelty stress in female F344 rats: effects of age and d–fenfluramine treatment. Handa RJ, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):641–7

Chronic ethanol ingestion–induced changes in open–field behavior and oxidative stress in the rat. Harkany T, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):195–201

Comparison of the behavioural effects of infusion of carbachol and acetylcholinesterase into the rat substantia nigra. Hawkins CA, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):67–80

Prenatal exposure to morphine affects juvenile play behavior and adult social behavior in rats. Hol T, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):615–8

Relations between heterogeneity of dopamine transporter binding and function and the behavioral pharmacology of cocaine. Katz JL, et al. **Pharmacol Biochem Behav** 1997 Jul;57(3):505–12 (45 ref.)

Gestational cocaine and ethanol exposure alter spontaneous and cocaine–induced behavior in weanling rats. Kunko PM, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):559–64

Inhibitory effect of restraint on induction of behavioral sensitization to methamphetamine and cocaine in mice. Kuribara H. **Pharmacol Biochem Behav** 1996 Jun; 54(2):327–31

On mouse pups and their lactating dams: behavioral consequences of early exposure to oxazepam and interacting factors. Laviola G. **Pharmacol Biochem Behav** 1996 Dec;55(4):459–74 (130 ref.)

Pre– or postsynaptic activity of 5–HT1A compounds in mice depends on the anxiety paradigm. López–Rubalcava C. **Pharmacol Biochem Behav** 1996 Aug;54(4):677–86

Behavioral recovery patterns in rats receiving the NMDA receptor antagonist MDL 100,453 immediately post–stroke. Markgraf CG, et al. **Pharmacol Biochem Behav** 1997 Mar; 56(3):391–7

Behavioral and analgesic effects induced by administration of nifedipine and nimodipine. Martín MI, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):93–8

Decreased severity of ethanol withdrawal behaviors in kainic acid–treated rats. Matsumoto I, et al. **Pharmacol Biochem Behav** 1996 Nov;55(3):371–8

Cocaine–induced behavioral sensitization: effects of haloperidol and SCH 23390 treatments. Mattingly BA, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):481–6

Behavioral and neurochemical effects induced by chronic L–DOPA administration. Molinengo L, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):779–85

Oral intake of sweetened or sweetened alcoholic beverages and open–field behavior. Nadal RA, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):739–43

The relationship of oral chlorpyrifos effects on behavior, cholinesterase inhibition, and muscarinic receptor density in rat. Nostrandt AC, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):15–23

Serum anticholinergic activity and behavior following atropine sulfate administration in the rat. O'Hare E, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):151–4

Behavioral sensitization to ethanol: genetics and the effects of stress. Phillips TJ, et al. **Pharmacol Biochem Behav** 1997 Jul;57(3):487–93 (120 ref.)

Behavioural and neurochemical sensitization of morphine–withdrawn rats to quinpirole. Piepponen TP, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):787–92

Developmental and behavioral effects of prenatal primidone exposure in the rat. Pizzi WJ, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):481–7

The behavioral effects of NMDA antagonists in serotonin depleted rats. Płaźnik A, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):159–66

Behavioral effects of naloxone on neuropeptide Y–induced feeding. Rudski JM, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):771–7

Effects of administration regime on the psychotomimetic properties of d–amphetamine in the squirrel monkey (Saimiri sciureus). Sams–Dodd F, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):471–80

Sensitization and tolerance in psychostimulant self–administration. Schenk S, et al. **Pharmacol Biochem Behav** 1997 Jul;57(3):543–50 (42 ref.)

Behavioral effects of the putative anxiolytic (+/–)–1–(2,5–dimethoxy–4–ethylthiophenyl)–2–aminopropane (ALEPH–2) in rats and mice. Scorza MC, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):355–61

Effect of chronic treatment with piracetam and tacrine on some changes caused by thymectomy in the rat brain. Song C, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):697–704

Methodological considerations in neurobehavioral teratology. Spear LP, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):455–7 (22 ref.)

Place conditioning with alcohol in alcohol–preferring and –nonpreferring rats. Stewart RB, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):487–91

Growth and behavioral effects of early postnatal chromium and manganese exposure in herring gull (larus argentatus) chicks [letter; comment] Symms KG. **Pharmacol Biochem Behav** 1997 Jan;56(1):155–9. Comment on: Pharmacol Biochem Behav 1995 Apr;50(4):607–12.

Possible novel pharmacodynamic action of cocaine: cardiovascular and behavioral evidence. Tella SR. **Pharmacol Biochem Behav** 1996 Jun;54(2):343–54

Female rats that rapidly acquire a d–amphetamine discrimination generalize more to d–amphetamine. Tomie A, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):699–703

Changes in behavior and monoamine levels in microdialysate from dorsal striatum after 6–OHDA infusions into ventral striatum. Tran–Nguyen LT, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):141–50

Effect of repeated methamphetamine pretreatment on freezing behavior induced by conditioned fear stress. Tsuchiya K, et al. **Pharmacol Biochem Behav** 1996 Aug; 54(4):687–91

Effects of neonatally administered iprindole on adult behaviors of rats. Vogel G, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):157–61

Alternating lever cyclic–ratio schedule analysis of the effects of atropine sulfate. Weldon DT, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):753–7

Blockade of behavioral effects of bretazenil by flumazenil and ZK 93,426 in pigeons. Witkin JM, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):1–7

Diazepam––its effects on the development of pentylenetetrazol kindling, related learning impairments, and neuronal cell loss. Becker A, et al. **Pharmacol Res** 1997 Jan;35(1):27–32

Effects of acute or chronic administration of risperidone on motor and sexual behavior of male rats. Drago F, et al. **Pharmacol Res** 1997 Jan;35(1):17–25

Vestibular compensation in aged rats with unilateral labyrinthectomy treated with dopaminergic drugs. Drago F, et al. **Pharmacol Res** 1996 Feb;33(2):135–40

Losartan influences behavioural effects of angiotensin II in rats. Kułakowska A, et al. **Pharmacol Res** 1996 Sep–Oct; 34(3–4):109–15

Behavioural effects of pinoline in the rat forced swimming, open field and elevated plus–maze tests. Pähkla R, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):73–8

Effects on behaviour and EEG of single chain phospholipases A2 from snake and bee venoms injected into rat brain: search for a functional antagonism. Gandolfo G, et al. **Pharmacol Toxicol** 1996 May;78(5):341–7

Characteristics of behavioural stimulant effect of N–cyanomethylmethamphetamine, a main product of smoking methamphetamine mixed with tobacco: evaluation by ambulatory activity in mice. Kuribara H, et al. **Pharmacol Toxicol** 1996 Jun;78(6):374–80

The sigma ligand JO 1784 prevents trimethyltin–induced behavioural and sigma–receptor dysfunction in the rat. O'Connell AW, et al. **Pharmacol Toxicol** 1996 May; 78(5):296–302

Lithium and valproate combined administration: acute behavioural effects and drug plasma levels. Vargas C, et al. **Pharmacol** Toxicol 1996 Aug;79(2):87–91

PCPA increases aggression in male firemouth cichlids. Adams CF, et al. **Pharmacology** 1996 Nov;53(5):328–30

Effects of microinjections of the neuropeptide substance P in the dorsal periaqueductal gray on the behaviour of rats in the plus-maze test. Aguiar MS, et al. **Physiol Behav** 1996 Oct;60(4):1183-6

Corticosterone is involved in foot shock-induced inactivity in rats. Báez M, et al. **Physiol Behav** 1996 Sep;60(3):795-801

Cholecystokinin receptors do not mediate the behavioral effects of lipopolysaccharide in mice. Bluthé RM, et al. **Physiol Behav** 1997 Aug;62(2):385-9

Responses to odorants by the domestic chick. Burne TH, et al. **Physiol Behav** 1996 Dec;60(6):1441-7

Influence of maternal stress on the effects of prenatal exposure to methylmercury and arsenic on postnatal development and behavior in mice: a preliminary evaluation. Colomina MT, et al. **Physiol Behav** 1997 Mar; 61(3):455-9

Differential ontogenesis of three DOI-induced behaviors in mice. Darmani NA, et al. **Physiol Behav** 1996 Dec; 60(6):1495-500

Microstructural analysis of the ingestive behavior of the rat ingesting polycose. Davis JD. **Physiol Behav** 1996 Dec; 60(6):1557-63

Citrate ions enhance behavioral and cellular responses to taste stimuli. Gilbertson DM, et al. **Physiol Behav** 1997 Sep; 62(3):491-500

Immediate early gene expression to examine neuronal activity following acute and chronic stressors in rat pups: examination of neurophysiological alterations underlying behavioral consequences of prenatal cocaine exposure. Goodwin GA, et al. **Physiol Behav** 1997 Jun;61(6):895-902

The 5-HT1B receptor agonist CP-94,253 reduces food intake and preserves the behavioural satiety sequence. Halford JC, et al. **Physiol Behav** 1996 Sep;60(3):933-9

Early postnatal treatment with transforming growth factor alpha does not alter nonreproductive behavior. Hilakivi-Clarke L, et al. **Physiol Behav** 1997 Jul; 62(1):207-11

IRI-514, a synthetic peptide analogue of thymopentin, reduces the behavioral response to social stress in rats. Menzaghi F, et al. **Physiol Behav** 1996 Aug;60(2):397-401

Picrotoxin produces a "central" pain-like syndrome when microinjected into the somato-motor cortex of the rat. Oliveras JL, et al. **Physiol Behav** 1996 Dec;60(6):1425-34

Comparison of the renal effects of six sedating agents in rats. Petersen JS, et al. **Physiol Behav** 1996 Sep;60(3):759-65

Defect in interleukin-1beta secretion prevents sickness behavior in C3H/HeJ mice. Segreti J, et al. **Physiol Behav** 1997 Jun;61(6):873-8

Neurobehavioral dysfunctions associated with dietary iron overload. Sobotka TJ, et al. **Physiol Behav** 1996 Feb; 59(2):213-9

Estimated magnitude of behavioral effects of phenytoin in rats and its reproducibility: a collaborative behavioral teratology study in Japan. Tachibana T, et al. **Physiol Behav** 1996 Sep;60(3):941-52

Differences in some behavioural effects of deprenyl and amphetamine enantiomers in rats. Timár J, et al. **Physiol Behav** 1996 Aug;60(2):581-7

Differential effects of prenatal protein malnutrition and prenatal cocaine on a test of homing behavior in rat pups. Tonkiss J, et al. **Physiol Behav** 1996 Sep;60(3):1013-8

Some central effects of GYKI 52466, a non-competitive AMPA receptor antagonist. Maj J, et al. **Pol J Pharmacol** 1995 Nov-Dec;47(6):501-7

Intrastriatal injection of an adenoviral vector expressing glial-cell-line-derived neurotrophic factor prevents dopaminergic neuron degeneration and behavioral impairment in a rat model of Parkinson disease. Bilang-Bleuel A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8818-23

Induction of dopamine D3 receptor expression as a mechanism of behavioral sensitization to levodopa. Bordet R, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3363-7

The behavioural and neuronal effects of the chronic administration of benzodiazepine anxiolytic and hypnotic drugs. Hutchinson MA, et al. **Prog Neurobiol** 1996 May; 49(1):73-97 (146 ref.)

Psychopharmacology of dopamine: the contribution of comparative studies in inbred strains of mice. Puglisi-Allegra S, et al. **Prog Neurobiol** 1997 Apr; 51(6):637-61 (205 ref.)

A schematic representation of the psychopharmacological profile of antidepressants. Bourin M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Nov; 20(8):1389-402

Pemoline produces ipsilateral turning behavior in unilateral 6-OHDA-lesioned rats. Cromwell HC, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):503-14

Chronic nimodipine and yawning behavior in grouped or individually housed rats. Fundaro A. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):121-7

Behavioral effects of HT-90B, a putative novel anxiolytic agent with potent antidepressive activity. Inagawa K, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):129-45

Dexfenfluramine lacks amphetamine-like abuse potential. Locke KW, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Aug; 20(6):1019-35

2-buten 4 olide affects feeding behavior of rhesus monkey. Mathur R, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):167-76

Effects of acute methamphetamine administration on spacing in paired rats: investigation with an automated video-analysis method. Shinba T, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Aug; 20(6):1037-49

Dopaminergic and serotonergic properties of fluoxetine. Simon B, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Jan; 21(1):169-81

Changes of behavior and monoamine metabolites in the rat brain after repeated methamphetamine administration: effects of duration of repeated administration. Suzuki H, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb;21(2):359-69

Age-dependent induction and maintenance of sensitization to methamphetamine-induced hyperactivity in mice. Kuribara H, et al. **Psychiatry Clin Neurosci** 1996 Oct; 50(5):299-303

Modulation of learned helplessness by 5-hydroxytryptamine2A receptor antisense oligodeoxynucleotides. Papolos DF, et al. **Psychiatry Res** 1996 Jul 31;63(2-3):197-203

Behavioral and endocrine effects of growth hormone administration in aged female rats. Drago F, et al. **Psychoneuroendocrinology** 1996 May;21(4):401-10

Developmental aspects of anandamide: ontogeny of response and prenatal exposure. Fride E, et al. **Psychoneuroendocrinology** 1996 Feb;21(2):157-72

Effects of ceruletide on perioral movements and the dopamine receptor-adenylate cyclase system in rats chronically treated with fluphenazine. Ashizawa T, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):185-94

Evaluation of the discriminative stimulus and reinforcing effects of gammahydroxybutyrate (GHB). Beardsley PM, et al. **Psychopharmacology (Berl)** 1996 Oct;127(4):315-22

Ovarian steroids modify the behavioral and neurochemical responses of the central benzodiazepine receptor. Bitran D, et al. **Psychopharmacology (Berl)** 1996 May;125(1):65-73

Ontogeny of the behavioral response to dopamine agonists after chronic cocaine. Bowman BP, et al. **Psychopharmacology (Berl)** 1997 Jan;129(2):121-7

Anxiolytic activity of NPY receptor agonists in the conflict test. Britton KT, et al. **Psychopharmacology (Berl)** 1997 Jul; 132(1):6-13

The effect of systemic d-amphetamine on motor versus motivational processes in the rat. Brown VJ, et al. **Psychopharmacology (Berl)** 1996 Nov;128(2):171-80

Brain dopamine receptor plasticity: testing a diathesis-stress hypothesis in an animal model. Cabib S, et al. **Psychopharmacology (Berl)** 1997 Jul;132(2):153-60

Behavioral effects of sertindole, risperidone, clozapine and haloperidol in Cebus monkeys. Casey DE. **Psychopharmacology (Berl)** 1996 Mar;124(1-2):134-40

Effect of NMDA receptor antagonists on D1, D2 and D1/D2 mediated behaviors in intact rats. Dall'Olio R, et al. **Psychopharmacology (Berl)** 1996 Jan;123(2):187-90

GABAergic influences on plus-maze behaviour in mice. Dalvi A, et al. **Psychopharmacology (Berl)** 1996 Dec; 128(4):380-97

The NMDA receptor antagonist dizocilpine (MK-801) stereoselectively inhibits morphine-induced place preference conditioning in mice. Del Pozo E, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):209-13

Behavioural effects in the rat of the putative dopamine D3 receptor agonist 7-OH-DPAT: comparison with quinpirole and apomorphine. Depoortere R, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):231-40

Similarities in the pharmacology of spontaneous and DOI-induced head-shakes suggest 5HT2A receptors are active under physiological conditions. Dursun SM, et al. **Psychopharmacology (Berl)** 1996 Nov;128(2):198-205

Pharmacological and neurochemical differences between acute and tardive vacuous chewing movements induced by haloperidol. Egan MF, et al. **Psychopharmacology (Berl)** 1996 Oct;127(4):337-45

Repeated administration of flumazenil does not alter its potency in modifying schedule-controlled behavior in chlordiazepoxide-treated rhesus monkeys. Gerak LR, et al. **Psychopharmacology (Berl)** 1997 May;131(1):64-70

The discriminative stimulus effects of muscimol in rats. Grech DM, et al. **Psychopharmacology (Berl)** 1997 Feb; 129(4):339-47

Self-administration of D1 receptor agonists by squirrel monkeys. Grech DM, et al. **Psychopharmacology (Berl)** 1996 May;125(2):97-104

Flesinoxan pretreatment differentially affects corticosterone, prolactin and behavioural responses to a flesinoxan challenge. Groenink L, et al. **Psychopharmacology (Berl)** 1997 May;131(1):93-100

Serotonin reuptake inhibitors reduce conditioned fear stress-induced freezing behavior in rats. Hashimoto S, et al. **Psychopharmacology (Berl)** 1996 Jan;123(2):182-6

Behavioral manifestations of the nicotine abstinence syndrome in the rat: peripheral versus central mechanisms. Hildebrand BE, et al. **Psychopharmacology (Berl)** 1997 Feb; 129(4):348-56

Microinfusion of corticotropin-releasing factor into the nucleus accumbens shell results in increased behavioral arousal and oral motor activity. Holahan MR, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):189-96

Behavioral and physiological effects of xanthines in nonhuman primates. Howell LL, et al. **Psychopharmacology (Berl)** 1997 Jan;129(1):1-14 (143 ref.)

Pharmacological interactions between serotonin and dopamine on behavior in the squirrel monkey. Howell LL, et al. **Psychopharmacology (Berl)** 1997 May;131(1):40-8

N-methyl-D-aspartate (NMDA) and alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) glutamate-receptor antagonists have different interactions with the discriminative stimuli of abused drugs. Jackson A, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):320-7

Differential responsiveness of inbred strains of rats to antidepressants in the forced swimming test: are Wistar Kyoto rats an animal model of subsensitivity to antidepressants? Lahmame A, et al. **Psychopharmacology (Berl)** 1996 Jan;123(2):191-8

Circadian rhythm in the response of central 5-HT1A receptors to 8-OH-DPAT in rats. Lu JQ, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):42-5

Reinstatement of drug-seeking behavior produced by heroin-predictive environmental stimuli. McFarland K, et al. **Psychopharmacology (Berl)** 1997 May;131(1):86-92

Effects of kappa receptor agonists on D1 and D2 dopamine agonist and antagonist-induced behaviors. Marin C, et al. **Psychopharmacology (Berl)** 1996 Jan;123(2):215-21

Rewarding properties of gamma-hydroxybutyric acid: an evaluation through place preference paradigm. Martellotta MC, et al. **Psychopharmacology (Berl)** 1997 Jul;132(1):1-5

Unbiased cocaine conditioned place preferences (CPP) obscures conditioned locomotion, and nimodipine blockade of cocaine CPP is due to conditioned place aversions. Martin-Iverson MT, et al. **Psychopharmacology (Berl)** 1997 Apr;130(4):327-33

Retarded acquisition and reduced expression of conditioned locomotor activity in adult rats following repeated early maternal separation: effects of prefeeding, d-amphetamine, dopamine antagonists and clonidine. Matthews K, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):75-84

Repeated 7-OH-DPAT treatments: behavioral sensitization, dopamine synthesis and subsequent sensitivity to apomorphine and cocaine. Mattingly BA, et al. **Psychopharmacology (Berl)** 1996 May;125(1):33-42

Stimulus and response factors affecting the development of behavioral sensitization to apomorphine. Mattingly BA, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):109-16

Smoked heroin self-administration in rhesus monkeys. Mattox AJ, et al. **Psychopharmacology (Berl)** 1996 Jun; 125(3):195-201

Correlation of vacuous chewing movements with morphological changes in rats following 1-year treatment with haloperidol. Meshul CK, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):238-47

Activational effects of social stress on IV cocaine self-administration in rats. Miczek KA, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):256-64

Self-administration of the dopamine D3 agonist 7-OH-DPAT in rhesus monkeys is modified by prior cocaine exposure. Nader MA, et al. **Psychopharmacology (Berl)** 1996 May;125(1):13-22

Cocaine self-administration increased by compounding discriminative stimuli. Panlilio LV, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):202-8

Discriminative stimulus control with olanzapine: generalization to the atypical antipsychotic clozapine. Porter JH, et al. **Psychopharmacology (Berl)** 1996 Nov; 128(2):216-9

Chronic, low-level exposure to diisopropylfluorophosphate causes protracted impairment of spatial navigation learning. Prendergast MA, et al. **Psychopharmacology (Berl)** 1997 Jan;129(2):183-91

Stimulant activities of dimethocaine in mice: reinforcing and anxiogenic effects. Rigon AR, et al. **Psychopharmacology (Berl)** 1996 Oct;127(4):323-7

Inbred mouse strains vary in oral self-selection of nicotine. Robinson SF, et al. **Psychopharmacology (Berl)** 1996 Apr; 124(4):332-9

Progressive ratio and behavioral economic evaluation of the reinforcing efficacy of orally delivered phencyclidine and ethanol in monkeys: effects of feeding conditions. Rodefer JS, et al. **Psychopharmacology (Berl)** 1996 Dec; 128(3):265-73

Neonatal lesions of the rat ventral hippocampus result in hyperlocomotion and deficits in social behaviour in adulthood. Sams-Dodd F, et al. **Psychopharmacology (Berl)** 1997 Aug;132(3):303-10

Effects of opioid and dopamine receptor antagonists on relapse induced by stress and re-exposure to heroin in rats. Shaham Y, et al. **Psychopharmacology (Berl)** 1996 Jun; 125(4):385-91

Post-weaning housing conditions influence the behavioural effects of cocaine and d-amphetamine. Smith JK, et al. **Psychopharmacology (Berl)** 1997 May;131(1):23-33

Effects of 5-HT1A receptor agonists, partial agonists and a silent antagonist on the performance of the conditioned emotional response test in the rat. Stanhope KJ, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):293-303

The effects of dopamine D1 and D2 receptor antagonists on the rewarding effects of delta 1 and delta 2 opioid receptor agonists in mice. Suzuki T, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):211-8

Behavioral stimulation without alteration of beta and 5-HT receptors and adenylate cyclase activity in rat brain after chronic sertraline administration. Tadokoro C, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):124–30

Effects of nimodipine and nifedipine upon behavior and regional brain monoamines in the rat. Viveros MP, et al. **Psychopharmacology (Berl)** 1996 Sep;127(2):123–32

In vivo apparent pA2 analysis in rats treated with either clocinnamox or morphine. Walker EA, et al. **Psychopharmacology (Berl)** 1996 May;125(2):113–9

Excitotoxic lesions of the basolateral amygdala impair the acquisition of cocaine-seeking behaviour under a second-order schedule of reinforcement. Whitelaw RB, et al. **Psychopharmacology (Berl)** 1996 Oct;127(3):213–24

Effects of drug history on the acquisition of responding maintained by GBR 12909 in rhesus monkeys. Wojnicki FH, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):34–41

Intravenous self-administration of cocaine under concurrent VI schedules of reinforcement. Woolverton WL. **Psychopharmacology (Berl)** 1996 Oct;127(3):195–203

Central behavioral effects of vasopressin: point and perspectives. Alescio-Lautier B, et al. **Rev Neurosci** 1993 Jul-Sep;4(3):239–66 (167 ref.)

Evidence for an involvement of muscarinic cholinergic systems in the induction but not expression of behavioral sensitization to cocaine. Heidbreder CA, et al. **Synapse** 1996 Oct;24(2):182–92

(–)-Nicotine produces conditioned place preference in Lewis, but not Fischer 344 rats. Horan B, et al. **Synapse** 1997 May; 26(1):93–4

Differential behavioral responses to cocaethylene of Long-Evans and Sprague-Dawley rats: role of serotonin. Horowitz JM, et al. **Synapse** 1997 May;26(1):11–21

Enhanced reward-related responding following cholera toxin infusion into the nucleus accumbens. Kelley AE, et al. **Synapse** 1997 May;26(1):46–54

Striatal c-fos levels do not correlate with haloperidol-induced behavioral supersensitivity. Marin C, et al. **Synapse** 1996 Jun;23(2):89–93

Turning behavior induced by injections of glutamate receptor antagonists into the substantia nigra of the rat. Murer G, et al. **Synapse** 1996 Oct;24(2):147–55

Effects of intrastriatal infusion of D2 receptor antisense oligonucleotide on apomorphine-induced behaviors in the rat. Rajakumar N, et al. **Synapse** 1997 Jul;26(3):199–208

Amphetamine-induced release of dendritic dopamine in substantia nigra pars reticulata: D1-mediated behavioral and electrophysiological effects. Timmerman W, et al. **Synapse** 1996 Aug;23(4):280–91

Behavioral consequences of in utero exposure to mercury vapor: alterations in lever-press durations and learning in squirrel monkeys. Newland MC, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):374–86

Behavioral effects of prenatal and adult exposure to toxic chemicals found in Lake Ontario fish: two methodological approaches. Daly H, et al. **Toxicol Ind Health** 1996 May-Aug;12(3–4):419–26

An overview of the development, validation, and application of neurobehavioral and neuromolecular toxicity assessment batteries: potential applications to combustion toxicology. Rossi J 3rd, et al. **Toxicology** 1996 Dec 31;115(1–3):107–17 (18 ref.)

Diagnosis and treatment of destructive behavior in dogs. Lindell EM. **Vet Clin North Am Small Anim Pract** 1997 May;27(3):533–47 (17 ref.)

Pharmacologic treatments for behavior problems. Overall KL. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):637–65 (59 ref.)

Effects of four analgesic treatments on the behavioural and cortisol responses of 3-week-old lambs to tail docking. Graham MJ, et al. **Vet J** 1997 Jan;153(1):87–97

Aversive reactions of turkeys to argon, carbon dioxide and a mixture of carbon dioxide and argon. Raj AB. **Vet Rec** 1996 Jun 15;138(24):592–3

Modulating wavelength discrimination in goldfish with ethambutol and stimulus intensity. Sjoerdsma T, et al. **Vision Res** 1996 Nov;36(21):3519–25

[Approach to neurotoxicity based on behavioral science] Ando K. **J Toxicol Sci** 1996 Aug;21(3 Appendix):137–42 (8 ref.) **(Jpn)**

[Context-dependent sensitization: reconsideration and a hypothesis] Ohmori T, et al. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Apr; 17(2):61–8 (66 ref.) (Eng. Abstr.) **(Jpn)**

[Effects of kamikihi-to on ovariectomy-induced changes in behavior and circulation in rats] Shimamura M, et al. **Nippon Yakurigaku Zasshi** 1996 Aug;108(2):65–75 (Eng. Abstr.) **(Jpn)**

[Effect of peptidergic correction of hemorrhagic shock on rat behavior in the post-hemorrhage period] Bastrikova NA, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):623–5 **(Rus)**

[Effects of buspirone on the development of an experimental depressive syndrome in rats, caused by systemic administration of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)] Krupina NA, et al. **Biull Eksp Biol Med** 1996 May; 121(5):489–94 **(Rus)**

[Effect of neonatal administration of ACTH(4–10) on behavior and catecholaminergic system of the brain in adult mice of various lines] Shilova OB, et al. **Dokl Akad Nauk** 1996 Jun;348(5):715–8 **(Rus)**

[The contrary effects of ethanol on the behavior of short- and long-sleep C57BL/6 mice in a dark-light chamber] Lapin IP, et al. **Eksp Klin Farmakol** 1996 Mar-Apr; 59(2):50–2 (Eng. Abstr.) **(Rus)**

[A method for evaluating the zoosocial behavior of rats in psychopharmacology] Petrov VI, et al. **Eksp Klin Farmakol** 1996 Jul-Aug;59(4):65–9 (Eng. Abstr.) **(Rus)**

[Pharmacological correction of behavioral and memory disorders in rats with vasorenal arterial hypertension given propranolol] Petrov VI, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):6–8 (Eng. Abstr.) **(Rus)**

[The anxiolytic effect of the new 2-mercaptobenzimidazole derivative in MR and MNRA rats] Seredinin SB, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):3–5 (Eng. Abstr.) **(Rus)**

[Contribution of the midbrain raphe nuclei and locus ceruleus to realization of lithium hydrobutyrate rhythm modulating properties] Zamoshchina TA. **Eksp Klin Farmakol** 1997 May-Jun;60(3):16–9 (Eng. Abstr.) **(Rus)**

[The effect of melatonin on the anxiety-phobic behavioral characteristics of intact and epiphysectomized rats] Baturin VA, et al. **Fiziol Zh Im I M Sechenova** 1996 Apr; 82(4):126–8 **(Rus)**

[Operant behavioral disorders in monkeys with an MPTP-induced Parkinson-like syndrome] Burov IuV, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):113–6 **(Rus)**

[The behavior of rat progeny after prenatal benzene exposure in an iron-deficiency state of the mother] Senichenkova IN, et al. **Fiziol Zh Im I M Sechenova** 1996 May-Jun; 82(5–6):95–101 (Eng. Abstr.) **(Rus)**

[Effect of captopril on angiotensin-converting enzyme activity and animal behavior in the "open field" test] Vernigora AN, et al. **Vopr Med Khim** 1996 Jan-Mar; 42(1):34–8 (Eng. Abstr.) **(Rus)**

[The effect on rat behavior of phenamine contained in a cannula chronically implanted in the neostriatum] Iakimovskii AF, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):335–41 (Eng. Abstr.) **(Rus)**

[The effect of short peptides isolated from the brain of a hibernating suslik on the rat EEG and behavior] Ignat'ev DA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec;46(6):1049–58 (Eng. Abstr.) **(Rus)**

[Sex-dependent differences in the action of chronically administered beta-casomorphin-7 on the behavior of white rat pups] Maklakova AS, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):610–3 **(Rus)**

[Modification of the behavioral effects of corticoliberin by the early postnatal administration of corticosteroid hormones] Shaliapina VG, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan-Feb; 47(1):130–5 (Eng. Abstr.) **(Rus)**

[The effect of the administration of beta-amyloid peptide fragment (25–35) on behavior in rats] Stepanichev MIu, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May-Jun; 47(3):597–600 **(Rus)**

PHYSIOLOGY

Apparatus for studying behavior and learning in restrained rats. Soltysik S, et al. **Acta Neurobiol Exp (Warsz)** 1996; 56(3):697–701

The NMDA and GABA-A receptors in behavioral activity of rats. Car H, et al. **Acta Physiol Hung** 1996;84(3):269–70

The effects of chronic hyperoxia (80%) on the behavior of rat litters. Binokay S, et al. **Adv Exp Med Biol** 1996; 388:357–62

Frog experiment onboard space station Mir. Izumi-Kurotani A, et al. **Adv Space Biol Med** 1997;6:193–211

Prenatal and postnatal ethanol exposure influences preweanling rats' behavioral and autonomic responding to ethanol odor. Chotro MG, et al. **Alcohol** 1996 Jul-Aug; 13(4):377–85

Behavioral similarities and differences among alcohol-preferring and -nonpreferring rats: confirmation by factor analysis and extension to additional groups. Overstreet DH, et al. **Alcohol Clin Exp Res** 1997 Aug; 21(5):840–8

The role of neurosteroids in alcohol-related behaviors: new studies from the laboratory and clinic. Zimmerberg B. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):250A–255A

Activity and attention in zinc-deprived adolescent monkeys. Golub MS, et al. **Am J Clin Nutr** 1996 Dec;64(6):908–15

Gender-related factors affecting primate social behavior: grooming, rank, age, and kinship in heterosexual and all-male groups of stumptail macaques. Butovskaya ML, et al. **Am J Phys Anthropol** 1996 Sep;101(1):39–54

Functional morphology of the lemuriform wrist joints and the relationship between wrist morphology and positional behavior in arboreal primates. Hamrick MW. **Am J Phys Anthropol** 1996 Feb;99(2):319–44

Ecological correlates to social structure in two lemur species in Madagascar. Overdorff DJ. **Am J Phys Anthropol** 1996 Aug;100(4):487–506

Sickness behavior in mice deficient in interleukin-6 during turpentine abscess and influenza pneumonitis. Kozak W, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R621–30

Dietary n-3 fatty acids differentially affect sickness behavior in mice during local and systemic inflammation. Kozak W, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1298–307

Behavioral, endocrine, and hypothalamic responses to involuntary overfeeding. Seeley RJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R819–23

A neurobiological basis of social attachment. Insel TR. **Am J Psychiatry** 1997 Jun;154(6):726–35 (84 ref.)

How muscle mass is part of the fabric of behavioral ecology in East African bovids (Madoqua, Gazella, Damaliscus, Hippotragus). Grand TI. **Anat Embryol (Berl)** 1997 Apr; 195(4):375–86

The arena test and cortisol response of sheep as indirect selection criteria for the improvement of lamb survival. Kilgour RJ, et al. **Anim Reprod Sci** 1997 Mar; 46(1–2):97–108

Oestrus, ovulation and peri-ovulatory hormone profiles in tethered and loose-housed sows. Soede NM, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):133–48

Cholesterol, serotonin, and behavior in young monkeys. Fontenot MB, et al. **Ann N Y Acad Sci** 1996 Sep 20; 794:352–4

Ethopharmacology of aggression: impact on autonomic and mesocorticolimbic activity. Miczek KA, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:60–77 (108 ref.)

Aggressive behaviors of transgenic estrogen-receptor knockout male mice. Ogawa S, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:384–5

Development and expression of hormonal systems regulating aggression. Simon NG, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:8–17 (48 ref.)

Developmental plasticity in neural circuits for a learned behavior. Bottjer SW, et al. **Annu Rev Neurosci** 1997; 20:459–81 (91 ref.)

The significance of neural ensemble codes during behavior and cognition. Deadwyler SA, et al. **Annu Rev Neurosci** 1997;20:217–44 (91 ref.)

Effect of age and caloric intake on protein oxidation in different brain regions and on behavioral functions of the mouse. Dubey A, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):189–97

Classical heart rate conditioning and affective behavior: the role of the cerebellar vermis. Ghelarducci B, et al. **Arch Ital Biol** 1997 Sep;135(4):369–84 (85 ref.)

Behavioural and EEG changes in sheep in response to painful acute electrical stimuli. Ong RM, et al. **Aust Vet J** 1997 Mar;75(3):189–93

Epidemiological investigation of the buller steer syndrome (riding behaviour) in a western Canadian feedlot. Taylor LF, et al. **Aust Vet J** 1997 Jan;75(1):45–51

Behavioral consequences of abnormal cortical development: insights into developmental disabilities. Berger-Sweeney J, et al. **Behav Brain Res** 1997 Jul;86(2):121–42 (244 ref.)

Differential effects of communal rearing and preweaning handling on open-field behavior and hot-plate latencies in mice. Clausing P, et al. **Behav Brain Res** 1997 Jan; 82(2):179–84

Behavioral characteristics of defense and vigilance reactions elicited by electrical stimulation of the hypothalamus in rabbits. Duan YF, et al. **Behav Brain Res** 1996 Nov; 81(1–2):33–41

Neurotoxic lesions of the perirhinal cortex do not mimic the behavioural effects of fornix transection in the rat. Ennaceur A, et al. **Behav Brain Res** 1996 Oct;80(1–2):9–25

Structure of the mouse behaviour on the elevated plus-maze test of anxiety. Fernández Espejo E. **Behav Brain Res** 1997 Jun;86(1):105–12

Behavioural effects of ablations of the presumed 'prefrontal cortex' or the corticoid in pigeons. Gagliardo A, et al. **Behav Brain Res** 1996 Aug;78(2):155–62

The function of the long back muscles during postural development in the rat. Geisler HC, et al. **Behav Brain Res** 1996 Oct;80(1–2):211–5

Hippocampal volume in migratory and non-migratory warblers: effects of age and experience. Healy SD, et al. **Behav Brain Res** 1996 Nov;81(1–2):61–8

Behavioral LTP during learning in rat hippocampal CA3. Ishihara K, et al. **Behav Brain Res** 1997 Feb;83(1–2):235–8

A quantification of goldfish behavior by an image processing system. Kato S, et al. **Behav Brain Res** 1996 Oct; 80(1–2):51–5

Recovery from early cortical damage in rats, VII. Comparison of the behavioural and anatomical effects of medial prefrontal lesions at different ages of neural maturation. Kolb B, et al. **Behav Brain Res** 1996 Sep; 79(1–2):1–14

Ventral tegmental area 5-HT receptors: mesolimbic dopamine release and behavioural studies. Mylecharane EJ. **Behav Brain Res** 1996;73(1–2):1–5 (37 ref.)

5-HT1B receptor knock out--behavioral consequences. Ramboz S, et al. **Behav Brain Res** 1996;73(1–2):305–12

A multiple-test study of anxiety-related behaviours in six inbred rat strains. Ramos A, et al. **Behav Brain Res** 1997 Apr;85(1):57–69

Psychobiology of plasticity: effects of training and experience on brain and behavior. Rosenzweig MR, et al. **Behav Brain Res** 1996 Jun;78(1):57–65 (79 ref.)

Behavioral correlates of transneuronal degeneration of substantia nigra reticulata neurons are reversed by ablation of the subthalamic nucleus. Saji M, et al. **Behav Brain Res** 1997 Mar;84(1–2):63–71

Behavioral studies on rats with transient cerebral ischemia induced by occlusion of the middle cerebral artery. Sakai N, et al. **Behav Brain Res** 1996 May;77(1–2):181–8

Traumatic brain injury of the forelimb and hindlimb

sensorimotor areas in the rat: physiological, histological and behavioral correlates. Soblosky JS, et al. **Behav Brain Res** 1996 Sep;79(1–2):79–92

The role of brain noradrenaline in cortical activation and behavior: a study of lesions of the locus coeruleus, medial thalamus and hippocampus–neocortex and of muscarinic blockade in the rat. Vanderwolf CH, et al. **Behav Brain Res** 1996 Aug;78(2):225–34

Autonomic and behavioral correlates of appetitive conditioning in rats. Hunt PS, et al. **Behav Neurosci** 1997 Jun;111(3):494–502

Repeated isolation in the neonatal rat produces alterations in behavior and ventral striatal dopamine release in the juvenile after amphetamine challenge. Kehoe P, et al. **Behav Neurosci** 1996 Dec;110(6):1435–44

Sound localization after kainic acid lesions of the dorsal nucleus of the lateral lemniscus in the albino rat. Kelly JB, et al. **Behav Neurosci** 1996 Dec;110(6):1445–55

Variability in general activity and the expression of complex behavior in the fetal rat (Rattus norvegicus). Reilly JL, et al. **Behav Neurosci** 1997 Aug;111(4):785–91

SNAP-25, enSNAREd in neurotransmission and regulation of behaviour. Wilson MC, et al. **Biochem Soc Trans** 1996 Aug;24(3):670–76 (49 ref.)

From neurons to behavior: vocal–acoustic communication in teleost fish. Bass AH, et al. **Biol Bull** 1997 Feb; 192(1):158–60

Specialization in multi–agent systems through learning. Murciano A, et al. **Biol Cybern** 1997 May;76(5):375–82

Effects of preweaning environmental stimulation on neuronal and behavioral impairment produced by undernutrition. Pascual R, et al. **Biol Neonate** 1996;70(3):165–72

Effects of preweaning sensorimotor stimulation on behavioral and neuronal development in motor and visual cortex of the rat. Pascual R, et al. **Biol Neonate** 1996;69(6):399–404

The biobehavioral consequences of psychogenic stress in a small, social primate (Callithrix jacchus jacchus). Johnson EO, et al. **Biol Psychiatry** 1996 Sep 1;40(5):317–37

Auditory–evoked potentials as indicator of brain serotonergic activity—first evidence in behaving cats. Juckel G, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1181–95

Changes in emotional behavior produced by long–term amygdala kindling in rats. Kalynchuk LE, et al. **Biol Psychiatry** 1997 Feb 15;41(4):438–51

Poststress glucose mitigates behavioral impairment in rats in the "learned helplessness" model of psychopathology. Minor TR, et al. **Biol Psychiatry** 1997 Sep 1;42(5):324–34

Behavior and physiology of social stress and depression in female cynomolgus monkeys. Shively CA, et al. **Biol Psychiatry** 1997 Apr 15;41(8):871–82

Modeling of the response of midbrain auditory neurons in the rat to their vocalization sounds based on FM sensitivities. Kao MC, et al. **Biosystems** 1997;40(1–2):103–9

Space and density effects on group size preferences in laying hens. Lindberg AC, et al. **Br Poult Sci** 1996 Sep; 37(4):709–21

Feeding and pecking behaviour in ostrich (Struthio camelus) chicks in captivity. Paxton CG, et al. **Br Poult Sci** 1997 May;38(2):151–5

Effects of plastic anti–pecking devices on food intake and behaviour of laying hens fed on pellets or mash. Savory CJ, et al. **Br Poult Sci** 1997 May;38(2):125–31

Behavioural adaptation of laying hens to dilution of diets under mash and pellet form. Vilariño M, et al. **Br Poult Sci** 1996 Dec;37(5):895–907

The role of the vomeronasal organ in rattlesnake (Crotalus viridis oreganus) predatory behavior. Alving WR, et al. **Brain Behav Evol** 1996;48(3):165–72

Hierarchical sensory guidance of mauthner–mediated escape responses in goldfish (Carassius auratus) and cichlids (Haplochromis burtoni). Canfield JG, et al. **Brain Behav Evol** 1996;48(3):137–56

The predatory strike of free ranging praying mantises, Sphodromantis lineola (Burmeister). II: Strikes in the horizontal plane. Cleal KS, et al. **Brain Behav Evol** 1996; 48(4):191–204

Ontogeny of suckling mechanisms in opossums (Didelphis virginiana). German RZ, et al. **Brain Behav Evol** 1996; 48(3):157–64

Alterations in brain and plasma concentrations of alpha–melanocyte–stimulating hormone during habituation of prey–catching behavior in toads. Kim Y, et al. **Brain Behav Evol** 1997;49(3):149–61

The closed–loop nature of the tymbal response in the dogbane tiger moth, Cycnia tenera (Lepidoptera, Arctiidae). Northcott MA, et al. **Brain Behav Evol** 1996;48(3):130–6

The predatory strike of free ranging praying mantises, Sphodromantis lineola (Burmeister). I: Strikes in the mid–sagittal plane. Prete FR, et al. **Brain Behav Evol** 1996; 48(4):173–90

Behavioral sensitivity of the European blind cave salamander, Proteus anguinus, and a Pyrenean newt, Euproctus asper, to electrical fields in water. Schlegel PA. **Brain Behav Evol** 1997;49(3):121–31

Agonistic interactions affect brain serotonergic activity in an acanthopterygiian fish: the bicolor damselfish (Pomacentrus partitus). Winberg S, et al. **Brain Behav Evol** 1996;48(4):213–20

Neurobehavioral alterations in developing transgenic mice expressing TNF–alpha in the brain. Fiore M, et al. **Brain Behav Immun** 1996 Jun;10(2):126–38

Ontogeny of mucosal immunity—environmental and behavioral influences. Husband AJ, et al. **Brain Behav Immun** 1996 Sep;10(3):188–204 (123 ref.)

Bilateral contributions to motor recovery in the monkey following lesions of the deep cerebellar nuclei. Amrani K, et al. **Brain Res** 1996 Nov 18;740(1–2):275–84

An autoradiographic study of serotonergic receptors in a murine genetic model of anxiety–related behaviors. Clement Y, et al. **Brain Res** 1996 Feb 19;709(2):229–42

Dorsal lesions of the prefrontal cortex: effects on alcohol consumption and subcortical monoaminergic systems. Deckel AW, et al. **Brain Res** 1996 Jun 3;723(1–2):70–6

Water escape performance of adult RCS dystrophic and congenic rats: a functional and histomorphometric study. DiLoreto D Jr, et al. **Brain Res** 1996 Apr 22; 717(1–2):165–72

Medial prefrontal cortical D1 receptor modulation of the meso–accumbens dopamine response to stress: an electrochemical study in freely–behaving rats. Doherty MD, et al. **Brain Res** 1996 Apr 9;715(1–2):86–97

Involvement of the nucleus accumbens–ventral pallidal pathway in postictal behavior induced by a hippocampal afterdischarge in rats. Ma J, et al. **Brain Res** 1996 Nov 11;739(1–2):26–35

Prior exposure to a brief restraint session facilitates the occurrence of fear in response to a conflict situation: behavioral and neurochemical correlates. Martijena ID, et al. **Brain Res** 1997 Mar 28;752(1–2):136–42

Behavioural performance in three substrains of mouse strain 129. Montkowski A, et al. **Brain Res** 1997 Jul 11; 762(1–2):12–8

Operant behavior during sessions of intravenous cocaine infusion is necessary and sufficient for phasic firing of single nucleus accumbens neurons. Peoples LL, et al. **Brain Res** 1997 May 23;757(2):280–4

Histaminergic neurons facilitate social memory in rats. Prast H, et al. **Brain Res** 1996 Sep 23;734(1–2):316–8

A microdialysis examination of serotonin release in the rat forebrain induced by behavioral/environmental manipulations. Rueter LE, et al. **Brain Res** 1996 Nov 11; 739(1–2):57–69

Presynaptic muscarinic cholinergic receptors in the dorsal hippocampus regulate behavioral inhibition of preweanling rats. Takahashi LK, et al. **Brain Res** 1996 Aug 26; 731(1–2):230–5

Sensorimotor impairments in Wistar Kyoto rats with cerebral infarction, induced by unilateral occlusion of the middle cerebral artery: recovery of function. van der Staay FJ, et al. **Brain Res** 1996 Apr 9;715(1–2):180–8

Reduced sensorimotor reactivity following traumatic brain injury in rats. Wiley JL, et al. **Brain Res** 1996 Apr 15; 716(1–2):47–52

Intracerebral administration of Mycoplasma fermentans produces sickness behavior: role of prostaglandins. Yirmiya R, et al. **Brain Res** 1997 Feb 21;749(1):71–81

Central antagonism of atrial natriuretic peptides on behavioral and hormonal responses to angiotensin II: mapping with c–fos. Zhu B, et al. **Brain Res** 1996 Sep 23; 734(1–2):55–60

Central c–fos expression following 20kHz/ultrasound induced defence behaviour in the rat. Beckett SR, et al. **Brain Res Bull** 1997;42(6):421–6

Regulation of prepulse inhibition by ventral pallidal projections. Kodsi MH, et al. **Brain Res Bull** 1997; 43(2):219–28

Vestibulo–ocular reflex of the squirrel monkey during eccentric rotation with centripetal acceleration along the naso–occipital axis. Merfeld DM. **Brain Res Bull** 1996; 40(5–6):303–9

Effects of combined ventral forebrain grafts to neocortex and amygdala on behavior of rats with damage to the nucleus basalis magnocellularis. Shoham S, et al. **Brain Res Bull** 1997;43(4):381–92

Comparison of intracranial self–stimulation evoked from lateral hypothalamus and ventral tegmentum: analysis based on stimulation parameters and behavioural response characteristics. Singh J, et al. **Brain Res Bull** 1996; 41(6):399–408

Behavior and physiology of the macaque vestibulo–ocular reflex response to sudden off–axis rotation: computing eye translation. Snyder LH, et al. **Brain Res Bull** 1996; 40(5–6):293–301; discussion 302

Altered behaviour in hamsters conceived and born in hypergravity. Sondag HN, et al. **Brain Res Bull** 1997; 43(3):289–94

Effects of procedural parameters on response accuracy: lessons from delayed (non–)matching procedures in animals. van Hest A, et al. **Brain Res Cogn Brain Res** 1996 Jun;3(3–4):193–203 (108 ref.)

Early behavioral development of mice is affected by staggerer mutation as soon as postnatal day three. Heuzé P, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):81–4

Behavioral changes in rats with early ventral hippocampal damage vary with age at damage. Wood GK, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):17–25

Radial maze performance, open–field and elevated plus–maze behaviors in Fyn–kinase deficient mice: further evidence for increased fearfulness. Miyakawa T, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):145–50

Estivation in South American amphibians and reptiles. Abe AS. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1241–7 (38 ref.)

Response patterns and postspike effects of premotor neurons in cervical spinal cord of behaving monkeys. Fetz EE, et al. **Can J Physiol Pharmacol** 1996 Apr;74(4):531–46

Parietal cortex area 5 and visuomotor behavior. Kalaska JF. **Can J Physiol Pharmacol** 1996 Apr;74(4):483–98 (69 ref.)

Behavioral problems of farmed ostriches in Canada. Samson J. **Can Vet J** 1996 Jul;37(7):412–4 (6 ref.)

Intranigral grafts of fetal ventral mesencephalic tissue in adult 6–hydroxydopamine–lesioned rats can induce behavioral recovery. Johnston RE, et al. **Cell Transplant** 1997 May–Jun;6(3):267–76

Biological responsiveness to pheromones provides fundamental and unique insight into olfactory function. Sorensen PW. **Chem Senses** 1996 Apr;21(2):245–56 (86 ref.)

A rat model of spontaneously arrested hydrocephalus. A behavioural study. Miyazawa T, et al. **Childs Nerv Syst** 1997 Apr;13(4):189–93

Anticipatory contrast effect in rats: a new view with lick response analysis and the effect of dopamine blocking. Chen BH, et al. **Chin J Physiol** 1996;39(4):235–43

Quantitative trait loci mapping in mouse models of complex behavior. Ferraro TN, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:771–81 (57 ref.)

Season and migration alters the corticosterone response to capture and handling in an Arctic migrant, the white–crowned sparrow (Zonotrichia leucophrys gambelii). Romero LM, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Feb;116(2):171–7

Dopamine D2 receptors in signal transduction and behavior. Picetti R, et al. **Crit Rev Neurobiol** 1997;11(2–3):121–42 (130 ref.)

Serotonin receptors in cognitive behaviors. Buhot MC. **Curr Opin Neurobiol** 1997 Apr;7(2):243–54 (67 ref.)

Sensory hyperacuity in the jamming avoidance response of weakly electric fish. Kawasaki M. **Curr Opin Neurobiol** 1997 Aug;7(4):473–9 (51 ref.)

Neurobehavioural mechanisms of reward and motivation. Robbins TW, et al. **Curr Opin Neurobiol** 1996 Apr; 6(2):228–36 (61 ref.)

Effects of artificial rearing on electrophysiology and behavior in adult rats. Kaneko WM, et al. **Depress Anxiety** 1996–97; 4(6):279–88

Juvenile hormone, behavioral maturation, and brain structure in the honey bee. Fahrbach SE, et al. **Dev Neurosci** 1996; 18(1–2):102–14 (121 ref.)

Paradoxical increases of circulating nonesterified fatty acids in somatotropin treated cattle undergoing mild disturbances. Boisclair YR, et al. **Domest Anim Endocrinol** 1997 Jul;14(4):251–62

Effects of road transport on indices of stress in horses. Smith BL, et al. **Equine Vet J** 1996 Nov;28(6):446–54

Symposium on sensorimotor circuits controlling behavioral functions in birds. In honour of Prof. Dr. Jacob L. Duddeldam. **Eur J Morphol** 1997 Oct;35(4):209–325

How reliably does a neuron in the visual motion pathway of the fly encode behaviourally relevant information? Warzecha AK, et al. **Eur J Neurosci** 1997 Jul;9(7):1365–74

Effects of 5–HT1A receptor ligands in a modified Geller–Seifter conflict model in the rat. King CM, et al. **Eur J Pharmacol** 1997 May 1;325(2–3):121–8

Partial role of 5–HT2 and 5–HT3 receptors in the activity of antidepressants in the mouse forced swimming test. Redrobe JP, et al. **Eur J Pharmacol** 1997 May 1; 325(2–3):129–35

Contribution of the forebrain archistriatal gaze fields to auditory orienting behavior in the barn owl. Knudsen EI, et al. **Exp Brain Res** 1996 Feb;108(1):23–32

Place– and behavior–independent sensory triggered discharges in rat hippocampal CA1 complex spike cells. Korshunov VA, et al. **Exp Brain Res** 1996 Apr; 109(1):169–73

The role of anterior ectosylvian cortex in cross–modality orientation and approach behavior. Wilkinson LK, et al. **Exp Brain Res** 1996 Nov;112(1):1–10

Characteristics of age–related behavioral changes in senescence–accelerated mouse SAMP8 and SAMP10. Miyamoto M. **Exp Gerontol** 1997 Jan–Apr;32(1–2):139–48 (32 ref.)

Long–term enhanced chromaffin cell survival and behavioral recovery in hemiparkinsonian rats with co–grafted polymer–encapsulated human NGF–secreting cells. Date I, et al. **Exp Neurol** 1997 Sep;147(1):10–7

Longitudinal behavioral and 6–[18F]fluoro–L–DOPA–PET assessment in MPTP–hemiparkinsonian monkeys. Melega WP, et al. **Exp Neurol** 1996 Oct;141(2):318–29

Stone–throwing by capuchins (Cebus apella): a model of throwing capabilities in Homo habilis. Westergaard GC, et al. **Folia Primatol (Basel)** 1995;65(4):234–8

Age–related changes in nociception, behavior, and monoamine levels in rats. Goicoechea C, et al. **Gen Pharmacol** 1997 Feb;28(2):331–6

Genetically triggered sexual differentiation of brain and behavior. Arnold AP. **Horm Behav** 1996 Dec;30(4):495–505 (77 ref.)

A proposed test battery and constellations of specific behavioral paradigms to investigate the behavioral phenotypes of transgenic and knockout mice. Crawley JN, et al. **Horm Behav** 1997 Jun;31(3):197–211 (200 ref.)

Corticosterone and interchromosomal race discrimination in the house mouse. Ganem G, et al. **Horm Behav** 1996 Mar; 30(1):69–73

Androgenic effects on hypothalamic asymmetry in a sexually

differentiated nucleus related to vocal behavior in Mongolian gerbils. Holman SD, et al. **Horm Behav** 1996 Dec;30(4):662–72

Intracerebral sex differences in the vasotocin system in birds: possible implication in behavioral and autonomic functions. Jurkevich A, et al. **Horm Behav** 1996 Dec;30(4):673–81

Independent differentiation of sexual and social traits. Kendrick AM, et al. **Horm Behav** 1996 Dec;30(4):600–10

Using new genetics tools to advance the behavioral neurosciences beyond nature versus nurture. Lederhendler II. **Horm Behav** 1997 Jun;31(3):186–7

The use of genetic "knockout" mice in behavioral endocrinology research. Nelson RJ. **Horm Behav** 1997 Jun; 31(3):188–96 (55 ref.)

Levels of plasma corticosterone and testosterone in male copperheads (Agkistrodon contortrix) following staged fights. Schuett GW, et al. **Horm Behav** 1996 Mar;30(1):60–8

Behavioral strategy and the physiological stress response in rainbow trout exposed to severe hypoxia. van Raaij MT, et al. **Horm Behav** 1996 Mar;30(1):85–92

Comparison of the spontaneous behaviour of four strains of female mice with different physiological properties. Kobayashi T, et al. **In Vivo** 1997 Jul–Aug;11(4):313–7

Defensive behavior induced by stimulation of the ventral striatum in the cat. Gustavo Murer M, et al. **Int J Neurosci** 1995 Dec;83(3–4):177–86

The effect of infection with the abomasal nematode, Haemonchus contortus, on the avoidance behaviour of sheep in a motivational–choice test. Adams DB, et al. **Int J Parasitol** 1997 Jun;27(6):665–73

Rhythms in the alpha band in cats and their behavioural correlates. Rougeul–Buser A, et al. **Int J Psychophysiol** 1997 Jun;26(1–3):191–203 (39 ref.)

Effect of stress on the behavior and 5–HT system in Sprague–Dawley and Wistar Kyoto rat strains. Paré WP, et al. **Integr Physiol Behav Sci** 1996 Apr–Jun;31(2):112–21

Anatomic and physiologic aging: a behavioral neuroscience perspective. Willott JF. **J Am Acad Audiol** 1996 Jun; 7(3):141–51 (60 ref.)

Effect of a lunar eclipse on the flight activity of mosquitoes in the upper Gulf Coast of Texas. Janousek TE, et al. **J Am Mosq Control Assoc** 1994 Jun;10(2 Pt 1):222–4

Assessing sensory capacity of animals using operant technology. Arave CW. **J Anim Sci** 1996 Aug; 74(8):1996–2009 (65 ref.)

Effects of space allocation and temperature on periparturient maternal behaviors, steroid concentrations, and piglet growth rates. Biensen NJ, et al. **J Anim Sci** 1996 Nov; 74(11):2641–8

Comment on the paper "Effects of space allocation and temperature on periparturient maternal behaviors, steroid concentrations, and piglet growth rates" [letter] Cronin GM, et al. **J Anim Sci** 1997 Jul;75(7):1985–7

Maternal nest quality and its influence on litter survival and weaning performance in commercial rabbits. Hamilton HH, et al. **J Anim Sci** 1997 Apr;75(4):926–33

Behavior of horses is affected by soy lecithin and corn oil in the diet. Holland JL, et al. **J Anim Sci** 1996 Jun; 74(6):1252–5

Relationships between nutrition and foraging behavior of free–ranging sheep and goats. Kronberg SL, et al. **J Anim Sci** 1997 Jul;75(7):1756–63

Feeding and social behavior of fallow deer (Dama dama L.) under intensive pasture confinement. Mattiello S, et al. **J Anim Sci** 1997 Feb;75(2):339–47

Assessment of acute pain in farm animals using behavioral and physiological measurements. Molony V, et al. **J Anim Sci** 1997 Jan;75(1):266–72

Behavioral pattern of dairy cows milked in a two–stall automatic milking system with a holding area. Uetake K, et al. **J Anim Sci** 1997 Apr;75(4):954–8

Providing social contacts and objects for nibbling moderates reactivity and oral behaviors in veal calves. Veissier I, et al. **J Anim Sci** 1997 Feb;75(2):356–65

Autonomic and behavioral thermoregulation in guinea pigs during postnatal maturation. Fewell JE, et al. **J Appl Physiol** 1997 Sep;83(3):830–6

An alternative method for the quantitation of neuronal damage after experimental middle cerebral artery occlusion in rats: analysis of behavioral deficit. Aronowski J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):705–13

Hearing in blind subterranean Zambian mole–rats (Cryptomys sp.): collective behavioural audiogram in a highly social rodent. Brückmann G, et al. **J Comp Physiol [A]** 1997 Jul;181(1):83–8

Arm movements in monkeys: behavior and neurophysiology. Georgopoulos AP. **J Comp Physiol [A]** 1996 Nov; 179(5):603–12 (46 ref.)

How lesioning the nucleus praeeminentialis affects electrolocation behavior in the weakly electric fish, Apteronotus leptorhynchus. Green RL. **J Comp Physiol [A]** 1996 Sep;179(3):353–61

Motor control of the jamming avoidance response of Apteronotus leptorhynchus: evolutionary changes of a behavior and its neuronal substrates. Heiligenberg W, et al. **J Comp Physiol [A]** 1996 Nov;179(5):653–74

Segmentally distributed metamorphic changes in neural circuits controlling abdominal bending in the hawk moth Manduca sexta. Lemon WC, et al. **J Comp Physiol [A]** 1997 Jun;180(6):597–610

Multisegmental motor activity in the segmentally restricted gin trap behavior in Manduca sexta pupae. Lemon WC, et al. **J Comp Physiol [A]** 1997 Jun;180(6):611–9

Genetic depletion of histamine from the nervous system of Drosophila eliminates specific visual and mechanosensory behavior. Melzig J, et al. **J Comp Physiol [A]** 1996 Dec; 179(6):763–73

Excitatory interactions between antagonistic motor neurones underlying locust kicking and jumping during maturation after the adult moult. Norman AP. **J Comp Physiol [A]** 1997 Sep;181(3):231–7

The pineal complex and melatonin affect the expression of the daily rhythm of behavioral thermoregulation in the green iguana. Tosini G, et al. **J Comp Physiol [A]** 1996; 179(1):135–42

Neural correlates of behavioral gap detection in the inferior colliculus of the young CBA mouse. Walton JP, et al. **J Comp Physiol [A]** 1997 Aug;181(2):161–76

Temporally patterned pulse trains affect directional sensitivity of inferior collicular neurons of the big brown bat, Eptesicus fuscus. Wu MI, et al. **J Comp Physiol [A]** 1996 Sep;179(3):385–93

Timing of torpor bouts during hibernation in European hamsters (Cricetus cricetus L.). Wassmer T, et al. **J Comp Physiol [B]** 1997 May;167(4):270–9

Discrimination of people by dairy cows based on handling. Munksgaard L, et al. **J Dairy Sci** 1997 Jun;80(6):1106–12

Antisense targeting in behavioural neuroendocrinology. Landgraf R. **J Endocrinol** 1996 Dec;151(3):333–40

Optomotor behaviour in Xenopus laevis tadpoles as a measure of the effect of gravity on visual and vestibular neural integration. Pronych SP, et al. **J Exp Biol** 1996 Dec; 199 (12):2689–701

Altered hematopoiesis, behavior, and sexual function in mu opioid receptor–deficient mice. Tian M, et al. **J Exp Med** 1997 Apr 21;185(8):1517–22

CSs and USs: what's the difference? Gunther LM, et al. **J Exp Psychol Anim Behav Process** 1997 Jan;23(1):15–30

Blocking in the spatial domain. Rodrigo T, et al. **J Exp Psychol Anim Behav Process** 1997 Jan;23(1):110–8

Language–naive chimpanzees (Pan troglodytes) judge relations between relations in a conceptual matching–to–sample task. Thompson RK, et al. **J Exp Psychol Anim Behav Process** 1997 Jan;23(1):31–43

Estimation of the size and directional output of functional groups of interneurons underlying abdominal positioning behaviors in crayfish. Brewer LD, et al. **J Exp Zool** 1997 Jun 15;278(3):119–32

Interleukin–6–mediated hyperalgesia/allodynia and increased spinal IL–6 expression in a rat mononeuropathy model. DeLeo JA, et al. **J Interferon Cytokine Res** 1996 Sep; 16(9):695–700

Role of amniotic fluid in newborn acceptance and bonding in canines. Abitbol ML, et al. **J Matern Fetal Med** 1997 Jan–Feb;6(1):49–52

Ontogeny of PFC–related behaviours is sensitive to a single non–invasive dose of methamphetamine in neonatal gerbils (Meriones unguiculatus). Dawirs RR, et al. **J Neural Transm** 1996;103(11):1235–45

Turning behavior in rats with unilateral lesions of the subthalamic nucleus: synergism between D1 and D2 receptors. Murer MG, et al. **J Neural Transm Gen Sect** 1995;100(2):123–35

Age– and behavior–related variation in volumes of song control nuclei in male European starlings. Bernard DJ, et al. **J Neurobiol** 1996 Jul;30(3):329–39

Neuroendocrine and behavioral responses and brain pattern of c–fos induction associated with audiogenic stress. Campeau S, et al. **J Neuroendocrinol** 1997 Aug;9(8):577–88

Visual, presaccadic, and cognitive activation of single neurons in monkey lateral intraparietal area. Colby CL, et al. **J Neurophysiol** 1996 Nov;76(5):2841–52

Responses in area V4 depend on the spatial relationship between stimulus and attention. Connor CE, et al. **J Neurophysiol** 1996 Mar;75(3):1306–8

Differential responses of Aplysia siphon motor neurons and interneurons to tail and mantle stimuli: implications for behavioral response specificity. Fang X, et al. **J Neurophysiol** 1996 Dec;76(6):3895–909

Sound localization after transection of the commissure of Probst in the albino rat. Ito M, et al. **J Neurophysiol** 1996 Nov;76(5):3493–502

Spontaneous switching between ortho– and antidromic spiking as the normal mode of firing in the cerebral giant neurons of freely behaving Lymnaea stagnalis. Jansen RF, et al. **J Neurophysiol** 1996 Dec;76(6):4206–9

Analysis of dynamic spectra in ferret primary auditory cortex. I. Characteristics of single–unit responses to moving ripple spectra. Kowalski N, et al. **J Neurophysiol** 1996 Nov; 76(5):3503–23

Spatially tuned auditory responses in area LIP of macaques performing delayed memory saccades to acoustic targets. Mazzoni P, et al. **J Neurophysiol** 1996 Mar;75(3):1233–41

Response properties of pretectal omnidirectional pause neurons in the behaving primate. Mustari MJ, et al. **J Neurophysiol** 1997 Jan;77(1):116–25

Enhanced descending modulation of nociception in rats with persistent hindpaw inflammation. Ren K, et al. **J Neurophysiol** 1996 Nov;76(5):3025–37

Site and parameters of microstimulation: evidence for independent effects on the properties of saccades evoked from the primate superior colliculus. Stanford TR, et al. **J Neurophysiol** 1996 Nov;76(5):3360–81

Cortical mechanisms underlying tactile discrimination in the monkey. I. Role of primary somatosensory cortex in passive texture discrimination. Tremblay F, et al. **J Neurophysiol** 1996 Nov;76(5):3382–403

Purkinje cell expression of a mutant allele of SCA1 in transgenic mice leads to disparate effects on motor behaviors, followed by a progressive cerebellar dysfunction and histological alterations. Clark HB, et al. **J Neurosci** 1997 Oct 1;17(19):7385–95

Implants of encapsulated human CNTF–producing fibroblasts prevent behavioral deficits and striatal degeneration in a rodent model of Huntington's disease. Emerich DF, et al. **J Neurosci** 1996 Aug 15;16(16):5168–81

CREB (cAMP response element–binding protein) in the locus coeruleus: biochemical, physiological, and behavioral evidence for a role in opiate dependence. Lane–Ladd SB, et al. **J Neurosci** 1997 Oct 15;17(20):7890–901

Emotional and behavioral correlates of mediodorsal thalamic neurons during associative learning in rats. Oyoshi T, et al. **J Neurosci** 1996 Sep 15;16(18):5812–29

Behavior–relevant changes in nucleus accumbens dopamine transmission elicited by food reinforcement: an electrochemical study in rat. Richardson NR, et al. **J Neurosci** 1996 Dec 15;16(24):8160–9

Repeated generalized seizures induce time–dependent changes in the behavioral seizure response independent of continued seizure induction. Samoriski GM, et al. **J Neurosci** 1997 Jul 15;17(14):5581–90

Activity–dependent changes to the brain and behavior of the honey bee, Apis mellifera (L.). Sigg D, et al. **J Neurosci** 1997 Sep 15;17(18):7148–56

A Drosophila calcium channel alpha1 subunit gene maps to a genetic locus associated with behavioral and visual defects. Smith LA, et al. **J Neurosci** 1996 Dec 15; 16(24):7868–79

Mnemonic responses of single units recorded from monkey inferotemporal cortex, accessed via transcommissural versus direct pathways: a dissociation between unit activity and behavior. Sobotka S, et al. **J Neurosci** 1996 Jul 1; 16(13):4222–30

Nitric oxide production in rat thalamus changes with behavioral state, local depolarization, and brainstem stimulation. Williams JA, et al. **J Neurosci** 1997 Jan 1; 17(1):420–7

An identified interneuron contributes to aspects of six different behaviors in Aplysia. Xin Y, et al. **J Neurosci** 1996 Aug 15;16(16):5266–79

Using digital video techniques to identify correlations between behavior and the activity of single neurons. Fenton AA, et al. **J Neurosci Methods** 1996 Dec 28;70(2):211–27

A microcomputer–based activity meter for multiple animals. Hoy JB, et al. **J Neurosci Methods** 1997 Apr 4;72(2):183–8

Information flow between hippocampus and related structures during various types of rat's behavior. Korzeniewska A, et al. **J Neurosci Methods** 1997 Apr 25; 73(1):49–60

Alpha 1–adrenoceptor blockade increases behavioral deficits in traumatic brain injury. Dunn–Meynell AA, et al. **J Neurotrauma** 1997 Jan;14(1):43–52

Central serotonergic systems in the spontaneously hypertensive and Lewis rat strains that differ in the elevated plus–maze test of anxiety. Kulikov A, et al. **J Pharmacol Exp Ther** 1997 May;281(2):775–84

Postnatal development of the nociceptive withdrawal reflexes in the rat: a behavioural and electromyographic study. Holmberg H, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):239–52

Dissociations between behavioural recovery and restoration of vestibular activity in the unilaby:inthectomized guinea–pig. Ris L, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):509–22

Spatio–temporal firing patterns in the frontal cortex of behaving monkeys. Abeles M, et al. **J Physiol Paris** 1996; 90(3–4):249–50

Descending antinociceptive mechanisms in the brainstem: their role in the animal's defensive system. Harris JA. **J Physiol Paris** 1996;90(1):15–25 (146 ref.)

Understanding the "badly behaved' parrot [news] **J Small Anim Pract** 1996 Nov;37(11):565

Kinematic analysis of locomotion in unilateral vestibular neurectomized cats. Lacour M, et al. **J Vestib Res** 1997 Mar–Jun;7(2–3):101–18

The effects of cage size and complexity on the behaviour of captive common marmosets, Callithrix jacchus jacchus. Kitchen AM, et al. **Lab Anim** 1996 Oct;30(4):317–26

Happy animals make good science. Poole T. **Lab Anim** 1997 Apr;31(2):116–24 (54 ref.)

High performance seizure–monitoring system using a vibration sensor and videotape recording: behavioral analysis of genetically epileptic rats. Amano S, et al. **Lab Anim Sci** 1997 Jun;47(3):317–20

Gender and diurnal effects on specific open–field behavioral patterns in the portacaval shunted rat. Theander B, et al. **Metab Brain Dis** 1996 Mar;12(1):47–59

Drosophila melanogaster deficient in protein kinase A manifests behavior–specific arrhythmia but normal clock function. Majercak J, et al. **Mol Cell Biol** 1997 Oct; 17(10):5915–22

The augmenting response, a form of short–term plasticity in the neocortex that is modulated by behavioral state [news] Castro–Alamancos MA. **Mol Psychiatry** 1996 Dec; 1(6):424–6

Simple minded mice from 'in vivo' libraries [news; comment]

Kola I. **Nat Genet** 1997 May;16(1):8–9. Comment on: Nat Genet 1997 May;16(1):28–36.

Functional screening of 2 Mb of human chromosome 21q22.2 in transgenic mice implicates minibrain in learning defects associated with Down syndrome [see comments] Smith DJ, et al. **Nat Genet** 1997 May;16(1):28–36. Comment in: Nat Genet 1997 May;16(1):8–9.

Neurobiological substrates of behavioral decline: models and data analytic strategies for individual differences in aging. Baxter MG, et al. **Neurobiol Aging** 1996 May–Jun; 17(3):491–5

Brain–behavior linkages in aged rodent models: strategies for examining individual differences. Ingram DK. **Neurobiol Aging** 1996 May–Jun;17(3):497–9; discussion 500

Age-related decrease in cholinergic synaptic transmission in three hippocampal subfields. Shen J, et al. **Neurobiol Aging** 1996 May–Jun;17(3):439–51

Facilitation of cognitive performance in aged rats by past experience depends on the type of information processing involved: a combined cross-sectional and longitudinal study. Dellu F, et al. **Neurobiol Learn Mem** 1997 Mar; 67(2):121–8

Effects of fimbria–fornix lesions on door discrimination and route choice in a lattice maze by rats. Okaichi H. **Neurobiol Learn Mem** 1996 Sep;66(2):155–66

Role of the 5-HT1A receptor in development of the neonatal rat brain: preliminary behavioral studies. Borella A, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):445–50

The dopamine agonists lisuride and piribedil protect against behavioural and histological changes following 4–vessel occlusion in the rat. Caldwell MA, et al. **Neuropsychobiology** 1996;34(3):117–24

Novelty-seeking in rats—biobehavioral characteristics and possible relationship with the sensation-seeking trait in man. Dellu F, et al. **Neuropsychobiology** 1996;34(3):136–45 (50 ref.)

Recent developments in an animal model of visual evoked potential augmenting/reducing and sensation seeking behavior. Siegel J, et al. **Neuropsychobiology** 1996; 34(3):130–5 (38 ref.)

Auditory memory cells in dorsolateral prefrontal cortex. Bodner M, et al. **Neuroreport** 1996 Aug 12;7(12):1905–8

Spatial learning deficit in mice expressing human 751–amino acid beta–amyloid precursor protein. D'Hooge R, et al. **Neuroreport** 1996 Nov 4;7(15–17):2807–11

Avian visual lateralization: a review. Güntürkün O. **Neuroreport** 1997 Apr 14;8(6):iii–xi (93 ref.)

Interferon–gamma receptors in nociceptive pathways: role in neuropathic pain–related behaviour. Robertson B, et al. **Neuroreport** 1997 Mar 24;8(5):1311–6

Changes in forebrain serotonin at the light–dark transition: correlation with behaviour. Rueter LE, et al. **Neuroreport** 1996 Apr 10;7(5):1107–11

Role of GABAA receptors in the organization of brain and behavioural sex differences. Segovia S, et al. **Neuroreport** 1996 Nov 4;7(15–17):2553–7

Relationship between the striatal regulation of the temporal organization of behavior and the state of beta–adrenergic mechanisms. Arushanyan EB, et al. **Neurosci Behav Physiol** 1996 Nov–Dec;26(6):539–44

Biochemical correlates of individual behavior. Gulyaeva NV, et al. **Neurosci Behav Physiol** 1997 Jul–Aug;27(4):462–9 (50 ref.)

Sensory information—the major factor of ontogeny. Raevsky VV, et al. **Neurosci Behav Physiol** 1997 Jul–Aug; 27(4):455–61 (30 ref.)

Influence of "animal hypnosis" on the motor polarizational dominant in rabbits. Rusinova EV. **Neurosci Behav Physiol** 1996 Mar–Apr;26(2):125–32

Interactions between the serotoninergic and noradrenergic systems of the brain and their role in the regulation of animal behavior. Semenova TP, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):280–2

Superconsolidated conditioned reflex—a highly adaptive system of behavior. Serdyuchenko VM. **Neurosci Behav Physiol** 1996 Jul–Aug;26(4):344–8

Behavioral consequences of intracerebral vasopressin and oxytocin: focus on learning and memory. Engelmann M, et al. **Neurosci Biobehav Rev** 1996 Autumn;20(3):341–58 (219 ref.)

Didelphid behavior. Kimble DP. **Neurosci Biobehav Rev** 1997 May;21(3):361–9 (67 ref.)

The behavior of the Japanese or domestic quail Coturnix japonica. Mills AD, et al. **Neurosci Biobehav Rev** 1997 May; 21(3):261–81 (367 ref.)

Multiple differences in the play fighting of male and female rats. Implications for the causes and functions of play. Pellis SM, et al. **Neurosci Biobehav Rev** 1997 Jan;21(1):105–20 (92 ref.)

Neurobehavioral alterations in autoimmune mice. Sakić B, et al. **Neurosci Biobehav Rev** 1997 May;21(3):327–40 (230 ref.)

Behavioral functions of nucleus accumbens dopamine: empirical and conceptual problems with the anhedonia hypothesis. Salamone JD, et al. **Neurosci Biobehav Rev** 1997 May;21(3):341–59 (267 ref.)

The neurobiology of social play behavior in rats. Vanderschuren LJ, et al. **Neurosci Biobehav Rev** 1997 May; 21(3):309–26 (276 ref.)

Salivary IgA as a marker of social stress in rats. Guhad FA, et al. **Neurosci Lett** 1996 Sep 27;216(2):137–40

Role of vestibulocerebellar N–methyl–D–aspartate receptors for behavioral recovery following unilateral labyrinthectomy in rats. Kim MS, et al. **Neurosci Lett** 1997 Feb 7;222(3):171–4

Neuropathic pain in neonatal rats. Lee DH, et al. **Neurosci Lett** 1996 May 10;209(2):140–2

Septal vasopressin modulates anxiety–related behaviour in rats. Liebsch G, et al. **Neurosci Lett** 1996 Oct 18; 217(2–3):101–4

Light induced EEG desynchronization and behavioral arousal in rats with restored retinocollicular projection by peripheral nerve graft. Sasaki H, et al. **Neurosci Lett** 1996 Oct 25;218(1):45–8

Elicitation and reduction of fear: behavioural and neuroendocrine indices and brain induction of the immediate–early gene c–fos. Campeau S, et al. **Neuroscience** 1997 Jun;78(4):1087–104

The effects of donor stage on the survival and function of embryonic striatal grafts in the adult rat brain. II. Correlation between positron emission tomography and reaching behaviour. Fricker RA, et al. **Neuroscience** 1997 Aug;79(3):711–21

Behavioral correlates of single units in the medial septal area: the effect of ethanol. Givens B. **Neuroscience** 1996 Mar; 71(2):417–27

Ionotropic glutamate receptor subtypes in the aged memory–impaired and unimpaired Long–Evans rat. Le Jeune H, et al. **Neuroscience** 1996 Sep;74(2):349–63

Basic fibroblast growth factor is highly neuroprotective against seizure–induced long–term behavioural deficits. Liu Z, et al. **Neuroscience** 1997 Feb;76(4):1129–38

Behavioral and neurochemical dysfunction in the circling (ci) rat: a novel genetic animal model of a movement disorder. Löscher W, et al. **Neuroscience** 1996 Oct;74(4):1135–42

High–frequency gamma electroencephalogram activity in association with sleep–wake states and spontaneous behaviors in the rat. Maloney KJ, et al. **Neuroscience** 1997 Jan;76(2):541–55

Transient increases in catecholaminergic activity in medial prefrontal cortex and nucleus accumbens shell during novelty. Rebec GV, et al. **Neuroscience** 1997 Feb; 76(3):707–14

Muscarinic acetylcholine receptor immunoreactivity in the amygdala—I. Cellular distribution correlated with fear–induced behavior. van der Zee EA, et al. **Neuroscience** 1997 Jan;76(1):63–73

Chronic cerebral hypoperfusion: pathological and behavioral consequences. Sekhon LH, et al. **Neurosurgery** 1997 Mar; 40(3):548–56

Do D2–like dopamine receptors mediate neuronal excitation or inhibition: some functional–behavioural implications. Waddington JL. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Apr; 17(2):111–2 (16 ref.)

Behavioral outcome of posterior parietal cortex injury in the monkey. Dong WK, et al. **Pain** 1996 Mar;64(3):579–87

Inhibition of noxious stimulus–evoked pain behaviors and neuronal fos–like immunoreactivity in the spinal cord of the rat by supraspinal morphine. Gogas KR, et al. **Pain** 1996 Apr;65(1):9–15

Behavioral analysis of diffuse noxious inhibitory controls (DNIC): antinociception and escape reactions. Morgan MM, et al. **Pain** 1996 Aug;66(2–3):307–12

Behavioral and electrophysiological assessment of hyperalgesia and changes in dorsal horn responses following partial sciatic nerve ligation in rats. Takaishi K, et al. **Pain** 1996 Aug;66(2–3):297–306

Relationship of ventricular tachycardia to sleep/wakefulness in a model of sudden cardiac death. Moïse NS, et al. **Pediatr Res** 1996 Aug;40(2):344–50

Brains of ants and elephants [editorial] Gregory R. **Perception** 1997;26(3):249–52

Behavioral and autonomic thermoregulation in the rat following propylthiouracil–induced hypothyroidism. Gordon CJ. **Pharmacol Biochem Behav** 1997 Sep; 58(1):231–6

Behavioral and biochemical alterations in median and dorsal raphe nuclei lesioned cats. Koprowska M, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):529–40

Role of 5–HT1b receptor in the pressure–induced behavioral and neurochemical disorders in rats. Kriem B, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):257–64

Modulation of vigilance and behavioral activation by alpha–1 adrenoceptors in the rat. Puumala T, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):705–12

Behavioral and electroencephalographic studies of beagles with an Eck's fistula: suitability as a model of hepatic encephalopathy. Watanabe M, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):367–75

Neural grafting as a tool for the study and reversal of neurobehavioral birth defects. Yanai J, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):673–81

Daily rhythms in spontaneous and diazepam–induced anxiolysis in Syrian hamsters. Yannielli PC, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):651–6

Learning in the Africanized honey bee: Apis mellifera L. Abramson CI, et al. **Physiol Behav** 1997 Sep;62(3):657–74

Central vs. peripheral spontaneous behavioral abnormalities in experimental hepatic encephalopathy. Apelqvist G, et al. **Physiol Behav** 1997 Jun;61(6):851–6

Modulation of behaviour and testosterone concentration in immunodepressed male laboratory mice (Mus musculus). Barnard CJ, et al. **Physiol Behav** 1997 Jun;61(6):907–17

Illumination has no effect on rats' behavior in the elevated plus–maze. Becker A, et al. **Physiol Behav** 1996 Jun; 59(6):1175–7

An animal model for type 2 alcoholism? Alcohol consumption and aggressive behavior following lesions in the raphe nuclei, medial hypothalamus, or ventral striatum–septal area. Bergvall AH, et al. **Physiol Behav** 1996 Oct;60(4):1125–35

Analysis of locomotor activity in the rat: parallelism index, a new measure of locomotor exploratory pattern. Brudzynski SM, et al. **Physiol Behav** 1997 Sep;62(3):635–42

Parallel strain–dependent susceptibility to environmentally–induced stereotypies and stress–induced behavioral sensitization in mice. Cabib S, et al. **Physiol Behav** 1997 Apr;61(4):499–506

Social behaviour in sheep relates to behaviour and neurotransmitter responses to nociceptive stimuli. Cook CJ, et al. **Physiol Behav** 1996 Sep;60(3):741–51

Prenatal effects of parity on behavioral ontogeny in mice. Crusio WE, et al. **Physiol Behav** 1996 Jun;59(6):1171–4

Genetic study of behavioral and pituitary–adrenocortical reactivity in response to an environmental challenge in pigs. Désautés C, et al. **Physiol Behav** 1997 Aug;62(2):337–45

Sex differences and the development of social behavior in a marsupial, the gray short–tailed opossum (Monodelphis domestica). Fadem BH, et al. **Physiol Behav** 1997 Jun; 61(6):857–61

Effects of taste preexposure on aversion training to visual cues in chicks (Gallus domesticus). Franchina JJ. **Physiol Behav** 1997 Sep;62(3):611–5

Effects of caudolateral neostriatal ablations on pain–related behaviour in the chicken. Gentle MJ, et al. **Physiol Behav** 1997 Apr;61(4):493–8

Ever higher: constant rise of body weight set–point in growing zucker rats. Gosselin C, et al. **Physiol Behav** 1996 Sep;60(3):817–21

Single and repeated environmental stress: effect on plasma oxytocin, corticosterone, catecholamines, and behavior. Hashiguchi H, et al. **Physiol Behav** 1997 May;61(5):731–6

Seasonal changes in urinary odors and in responses to them by blind subterranean mole rats. Heth G, et al. **Physiol Behav** 1996 Sep;60(3):963–8

Circadian rhythms of locomotor activity in the goldfish Carassius auratus. Iigo M, et al. **Physiol Behav** 1996 Sep; 60(3):775–81

Immediate and long–term effects of novel odors on risk assessment in mice. Kemble ED, et al. **Physiol Behav** 1997 Apr;61(4):543–9

Characterization of sensorimotor performance, reproductive and aggressive behaviors in segmental trisomic 16 (Ts65Dn) mice. Klein SL, et al. **Physiol Behav** 1996 Oct;60(4):1159–64

Adult timing after preweaning shifts of Zeitgeber in rats: crossed sensitization to time? Lejeune H, et al. **Physiol Behav** 1997 Jun;61(6):919–29

Failure to induce defecation in rats exposed to fixed–time schedules of liquid food delivery. LeSage M, et al. **Physiol Behav** 1996 Sep;60(3):721–3

Lateral and medial septal lesions reduce anxiety in the plus–maze and probe–burying tests. Menard J, et al. **Physiol Behav** 1996 Sep;60(3):845–53

Paw preference, rotation, and dopamine function in Collins HI and LO mouse strains. Nielsen DM, et al. **Physiol Behav** 1997 Apr;61(4):525–35

Hippocampal and striatal blood flow during behavior in rats: chronic laser Doppler flowmetry study. Osborne PG. **Physiol Behav** 1997 Apr;61(4):485–92

Interactions between vasopressin and mu–opioid systems in the rat fetus. Petrov ES, et al. **Physiol Behav** 1996 Jul; 60(1):217–30

Behavioral and adrenocortical responses to open–field test in rats selected for reduced aggressiveness toward humans. Plyusnina I, et al. **Physiol Behav** 1997 Mar;61(3):381–5

Circadian rhythm of temperature selection in a nocturnal lizard. Refinetti R, et al. **Physiol Behav** 1997 Aug; 62(2):331–6

Joint pathology and behavioral performance in autoimmune MRL–lpr Mice. Sakić B, et al. **Physiol Behav** 1996 Sep; 60(3):901–5

Enforced water drinking induces changes in burying behavior and social interaction test in rats. Saldivar–González JA, et al. **Physiol Behav** 1996 Sep;60(3):823–7

Rough–and–tumble play behavior in Fischer–344 and buffalo rats: effects of social isolation. Siviy SM, et al. **Physiol Behav** 1997 Apr;61(4):597–602

A study of sleep in the European blackbird. Szymczak JT, et al. **Physiol Behav** 1996 Oct;60(4):1115–20

Stroking of the abdomen causes decreased locomotor activity in conscious male rats. Uvnäs–Moberg K, et al. **Physiol Behav** 1996 Dec;60(6):1409–11

Differences of nu/+ and nu/nu mice in some behaviors reflecting temperament traits. Vidal J. **Physiol Behav** 1996 Feb;59(2):341–8

A key by which the toad's visual system gets access to the domain of prey. Wachowitz S, et al. **Physiol Behav** 1996 Sep;60(3):877–87

Prevention of stereotypy in laboratory mice: effects on stress physiology and behaviour. Würbel H, et al. **Physiol Behav** 1996 Jun;59(6):1163–70

Feed pecking in young chickens: new techniques of evaluation. Yo T, et al. **Physiol Behav** 1997 Jun; 61(6):803–10

Physiology of diving of birds and mammals. Butler PJ, et

al. **Physiol Rev** 1997 Jul;77(3):837–99 (424 ref.)

The thermal biology of digestion in rubber boas (Charina bottae): physiology, behavior, and environmental constraints. Dorcas ME, et al. **Physiol Zool** 1997 May–Jun; 70(3):292–300

Timing of the calcium intake and effect of calcium deficiency on behaviour and egg laying in captive great tits, Parus major. Graveland J, et al. **Physiol Zool** 1997 Jan–Feb; 70(1):74–84

The influence of protein level in the diet on cannibalism and quality of plumage of layers. Ambrosen T, et al. **Poult Sci** 1997 Apr;76(4):559–63

Effect of intermittent activity on broiler production parameters. Balog JM, et al. **Poult Sci** 1997 Jan;76(1):6–12

Group selection for adaptation to multiple-hen cages: behavioral responses. Craig JV, et al. **Poult Sci** 1996 Oct; 75(10):1145–55

Range and confinement rearing of four genetic lines of turkeys. 2. Effects on behavior and tonic immobility. Noble DO, et al. **Poult Sci** 1996 Feb;75(2):165–71

The effect of altering feed and water location and of activity on growth, performance, behavior, and walking ability of hens from two strains of commercial turkeys. Noble DO, et al. **Poult Sci** 1996 Jul;75(7):833–7

The effects of color of lighting on the behavior and production of meat chickens. Prayitno DS, et al. **Poult Sci** 1997 Mar;76(3):452–7

Changes in multiple brain regions underlie species differences in a complex, congenital behavior. Balaban E. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2001–6

Substitution of a mutant alpha2a-adrenergic receptor via "hit and run" gene targeting reveals the role of this subtype in sedative, analgesic, and anesthetic-sparing responses in vivo. Lakhlani PP, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9950–5

Behavioral effects of estrogen receptor gene disruption in male mice. Ogawa S, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1476–81

VMAT2 knockout mice: heterozygotes display reduced amphetamine-conditioned reward, enhanced amphetamine locomotion, and enhanced MPTP toxicity. Takahashi N, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9938–43

Control of energy balance by a wild ungulate, the kudu (Tragelaphus strepsiceros) through adaptive foraging behaviour. Owen-Smith N. **Proc Nutr Soc** 1997 Mar; 56(1A):15–24

Nociceptive, environmental and neuroendocrine factors determining pain behaviour in animals. Aloisi AM, et al. **Prog Brain Res** 1996;110:33–46 (78 ref.)

Meeting the constraints upon behavioral expression through neural and genomic interactive mechanisms. Pfaff DW, et al. **Prog Brain Res** 1996;107:343–54 (48 ref.)

The fimbria-fornix/cingular bundle pathways: a review of neurochemical and behavioural approaches using lesions and transplantation techniques. Cassel JC, et al. **Prog Neurobiol** 1997 Apr;51(6):663–716 (556 ref.)

Spatial, behavioral and sensory correlates of hippocampal CA1 complex spike cell activity: implications for information processing functions. Wiener SI. **Prog Neurobiol** 1996 Jul;49(4):335–61 (104 ref.)

Anxiety-like and depression-like behavior in Maudsley reactive (MR) and non-reactive (NMRA) rats. Commissaris RL, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):491–501

Phospholipase A2 and the hypofrontality hypothesis of schizophrenia. Gattaz WF, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Aug; 55(1–2):109–13

Comparison of the behavioural and endocrine response to forced swimming stress in five inbred strains of rats. Armario A, et al. **Psychoneuroendocrinology** 1995; 20(8):879–90

Endocrine and behavioral effects of airpuff-startle in rats. Engelmann M, et al. **Psychoneuroendocrinology** 1996 May; 21(4):391–400

Behavioural and physiological consequences of a single social defeat in Roman high- and low-avoidance rats. Meerlo P, et al. **Psychoneuroendocrinology** 1997 Apr;22(3):155–68

Fawn-hooded rats show enhanced active behaviour in the forced swimming test, with no evidence for pituitary-adrenal axis hyperactivity. Lahmame A, et al. **Psychopharmacology (Berl)** 1996 May;125(1):74–8

Behavioral differences between two inbred strains of Fawn-Hooded rat: a model of serotonin dysfunction. Overstreet DH, et al. **Psychopharmacology (Berl)** 1996 Dec; 128(3):328–30

Effect of ewe and lamb genotype on gestation length, lambing ease and neonatal behaviour of lambs. Dwyer CM, et al. **Reprod Fertil Dev** 1996;8(8):1123–9

Viruses and behavioural changes: a review of clinical and experimental findings. Mohammed AH, et al. **Rev Neurosci** 1993 Jul–Sep;4(3):267–86 (164 ref.)

What can genetic models tell us about behavioral plasticity? Sadile AG. **Rev Neurosci** 1993 Jul–Sep;4(3):287–303 (142 ref.)

The variance of pairwise nucleotide differences in two populations with migration. Wakeley J. **Theor Popul Biol** 1996 Feb;49(1):39–57

Unusual behavioral phenotypes of inbred mouse strains. Crawley JN. **Trends Neurosci** 1996 May;19(5):181–2; discussion 188–9

Neural correlates of key stimulus and releasing mechanism: a case study and two concepts. Ewert JP. **Trends Neurosci** 1997 Aug;20(8):332–9 (71 ref.)

Gene-targeting studies of mammalian behavior: is it the mutation or the background genotype? [see comments] [published erratum appears in Trends Neurosci 1996 Jul;19(7):271] Gerlai R. **Trends Neurosci** 1996 May; 19(5):177–81. Comment in: Trends Neurosci 1996 Nov;19(11):470. Comment in: Trends Neurosci 1996 Nov;19(11):471–2.

The neural basis of associative reward learning in honeybees. Hammer M. **Trends Neurosci** 1997 Jun;20(6):245–52 (58 ref.)

Mice, gene targeting and behaviour: more than just genetic background. Lathe R. **Trends Neurosci** 1996 May; 19(5):183–6; discussion 188–9

In-village studies of the use of work oxen in central Mali. Bartholomew PW, et al. **Trop Anim Health Prod** 1995 Nov; 27(4):241–8

Improving feeding management and work performance of Mashona oxen through strategic supplementation with cobsheath-groundnut stover. Francis J, et al. **Trop Anim Health Prod** 1995 Nov;27(4):249–57

Use of donkeys and their draught performance in smallholder farming in Zimbabwe. Hagmann J, et al. **Trop Anim Health Prod** 1995 Nov;27(4):231–9

Repellence of the tick Rhipicephalus appendiculatus by the grass Melinis minutiflora. Mwangi EN, et al. **Trop Anim Health Prod** 1995 Nov;27(4):211–6

Social behavior and aggressive problems of cats. Crowell-Davis SL, et al. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):549–68 (31 ref.)

Behavioral and pharmacologic approaches to problem urination in cats. Hart BL. **Vet Clin North Am Small Anim Pract** 1996 May;26(3):651–8 (12 ref.)

Social dynamics and behavior problems in multiple-dog households. Juarbe-Díaz SV. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):497–514 (11 ref.)

Diagnosis and treatment of destructive behavior in dogs. Lindell EM. **Vet Clin North Am Small Anim Pract** 1997 May;27(3):533–47 (17 ref.)

Using learning theory in animal behavior therapy practice. Mills DS. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):617–35 (38 ref.)

A diagnostic classification of problem behavior in dogs and cats. Odendaal JS. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):427–43 (2 ref.)

Pharmacologic treatments for behavior problems. Overall KL. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):637–65 (59 ref.)

Assessment, management, and prognosis of canine dominance-related aggression. Reisner IR. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):479–95 (75 ref.)

Puppy socialization classes. Seksel K. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):465–77 (48 ref.)

Behavior problems of pet pigs. Tynes VV. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):667–90 (35 ref.)

Influence of orchiectomy on canine behaviour. Maarschalkerweerd RJ, et al. **Vet Rec** 1997 Jun 14; 140(24):617–9

Use of rabbits in ostrich rearing [letter] Madeiros CA. **Vet Rec** 1997 Jun 28;140(26):688

Persistent scratching in Cavalier King Charles spaniels [letter] Rusbridge C. **Vet Rec** 1997 Aug 16;141(7):179

Removal of two halves restores the whole: reversal of visual hemineglect during bilateral cortical or collicular inactivation in the cat. Lomber SG, et al. **Vis Neurosci** 1996 Nov–Dec;13(6):1143–56

[The relation of circadian variations of heuristic behavior and CNS radioresistance in animals] Ushakov IB, et al. **Aviakosm Ekolog Med** 1996;30(6):26–32 (Eng. Abstr.) **(Rus)**

[Effect of estradiol on behavioral reactions of female non-mature rats] Dimitrov OA, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):620–2 **(Rus)**

[Effect of donor CSF on restoration of motor function after partial cerebral decortication] Ptitsyna IB, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):623–5 **(Rus)**

[Structural mechanisms of resistance to cerebral ischemia in rats with different types of behavior] Artiukhina NI, et al. **Dokl Akad Nauk** 1996 Nov;351(1):123–7 **(Rus)**

[Reflection of the motivational-emotional status of an animal in coupling of the processes at the cellular and system level] Kozhedub RG, et al. **Dokl Akad Nauk** 1996 Aug; 349(4):557–9 **(Rus)**

[Insight phenomenon in the regulation of time of performance of behavior acts in monkey (Macaca mulatta)] Pirogov AA, et al. **Dokl Akad Nauk** 1997 Jul;355(2):279–81 **(Rus)**

[The reaction of the individual to an uncontrollable exposure depends on the behavioral strategy] Zhukov DA. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):21–9 (Eng. Abstr.) **(Rus)**

[The effect of the selection of Mustela vison mink for behavior on their folliculogenesis and reproductive function] Klochkov DV, et al. **Zh Evol Biokhim Fiziol** 1996 Sep-Oct;32(5):620–8 (Eng. Abstr.) **(Rus)**

[A comparative evaluation of the effect of removal of the epiphysis and damage to the amygdala on the behavioral reactions of rats] Arushanian EB, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul–Aug; 46(4):762–8 (Eng. Abstr.) **(Rus)**

[The characteristics of the behavioral specialization of stably and unstably active nerve cells] Bobrovnikov LV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul–Aug; 46(4):745–52 (Eng. Abstr.) **(Rus)**

[The effect of emotional stress on the behavioral and endocrine indices of rats selected for their contrasting capacities for active avoidance] Galeeva AIu, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):929–36 (Eng. Abstr.) **(Rus)**

[Acoustically guided behavior in the early ontogeny of the long-eared owl: the development of hearing sensitivity] Golubeva TV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar–Apr;46(2):317–27 (Eng. Abstr.) **(Rus)**

[The biochemical correlates of the individual typological characteristics of rat behavior] Guliaeva NV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar–Apr; 47(2):329–38 (50 ref.) (Eng. Abstr.) **(Rus)**

[The effect of the repeated experience of aggression in daily confrontations on the individual and social behavior of male mice] Kudriavtseva NN, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan–Feb; 47(1):86–97 (Eng. Abstr.) **(Rus)**

[The "polarization" hunger dominant (the behavioral characteristics and EEG spectral analysis)] Liubimova IuV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May–Jun; 47(3):507–12 (Eng. Abstr.) **(Rus)**

[The prophylactic effect of negatively charged air ions in acute stress in rats with different typological behavioral characteristics] Livanova LM, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):564–70 (Eng. Abstr.) **(Rus)**

[Serotonin in genetically determined types of defensive behavior] Popova NK. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar–Apr; 47(2):350–7 (46 ref.) (Eng. Abstr.) **(Rus)**

[The role of the interaction of serotonin- and noradrenergic systems in regulating behavior] Semenova TP. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar–Apr; 47(2):358–61 (21 ref.) (Eng. Abstr.) **(Rus)**

[Catecholamine levels and tyrosine hydroxylase activity in the brain structures of male mice with a determined behavioral type in a population] Serova LI, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):552–7 (Eng. Abstr.) **(Rus)**

[The open-field behavior and electrical activity of the limbic structures and the cerebral cortex in rats with different resistances to emotional stress] Umriukhin PE. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):953–6 **(Rus)**

[Hypothalamic neurons and zoosocial interactions] Zaĭchenko MI, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):539–46 (Eng. Abstr.) **(Rus)**

[Persistence of the cognitive effects of early stimulation assessed with an animal model] Passig C, et al. **Rev Med Chil** 1996 Apr;124(4):409–16 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

5HT1B receptor agonists inhibit light-induced phase shifts of behavioral circadian rhythms and expression of the immediate-early gene c-fos in the suprachiasmatic nucleus. Pickard GE, et al. **J Neurosci** 1996 Dec 15;16(24):8208–20

Synthetic trehalose dicorynomycolate (S-TDCM): behavioral effects and radioprotection. Landauer MR, et al. **J Radiat Res (Tokyo)** 1997 Mar;38(1):45–54

Long-term changes in open field activity of male mice irradiated with low levels of gamma rays at late stage of development. Minamisawa T, et al. **J Radiat Res (Tokyo)** 1996 Jun;37(2):117–24

Abnormalities in behavior, learning ability, and the cholinergic system induced by long-term ultraviolet A irradiation of mice. Hiramoto K, et al. **Neuropsychobiology** 1996;33(4):182–5

Device for artifact-free recording of brain electrical activity during exposure of rats to UHF fields in conditions of free behavior. Vorob'ev VV, et al. **Neurosci Behav Physiol** 1996 Nov–Dec;26(6):565–6

Behavioral teratologic studies using microwave radiation: is there an increased risk from exposure to cellular phones and microwave ovens? Jensh RP. **Reprod Toxicol** 1997 Jul–Aug;11(4):601–11

[Irradiation of ancestors with ionizing radiation changes the behavior of offspring of successive non-irradiated generations] Dygalo NN, et al. **Dokl Akad Nauk** 1996 May; 348(3):417–8 **(Rus)**

[The behavior of the progeny of prenatally irradiated rats] Sakharov DG, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov–Dec; 46(6):1109–14 (Eng. Abstr.) **(Rus)**

BEHAVIOR, ASSAULTIVE see **VIOLENCE**

BEHAVIOR, CHILD see **CHILD BEHAVIOR**

BEHAVIOR, COMPULSIVE see **COMPULSIVE**

BEHAVIOR, COMPULSIVE

BEHAVIOR

BEHAVIOR, DANGEROUS see **DANGEROUS BEHAVIOR**

BEHAVIOR, INFANT see **INFANT BEHAVIOR**

BEHAVIOR MODIFICATION see **BEHAVIOR THERAPY**

BEHAVIOR THERAPY

Depression, smoking, activity level, and health status: pretreatment predictors of attrition in obesity treatment. Clark MM, et al. **Addict Behav** 1996 Jul-Aug;21(4):509-13

Current issues in behavioral and pharmacological approaches to smoking cessation. Hajek P. **Addict Behav** 1996 Nov-Dec;21(6):699-707 (40 ref.)

Pre-treatment characteristics, program philosophy and level of ancillary services as predictors of methadone maintenance treatment outcome. Saxon AJ, et al. **Addiction** 1996 Aug;91(8):1197-209

Interventions cannot ignore intentions. Stockwell T. **Addiction** 1996 Sep;91(9):1283-4

Hospital-based behavior modification program for adolescents: evaluation and predictors of outcome. al Ansari A, et al. **Adolescence** 1996 Summer;31(122):469-76

Moderating binge drinking: it is possible to change behaviour if you plan it in advance. Murgraff V, et al. **Alcohol Alcohol** 1996 Nov;31(6):577-82

The relationship between helping alliance and outcome in outpatient treatment of alcoholics: a comparative study of psychiatric treatment and multimodal behavioural therapy. Ojehagen A, et al. **Alcohol Alcohol** 1997 May-Jun; 32(3):241-9

Role of pharmacotherapy for urinary incontinence [letter; comment] Weiss BD. **Am Fam Physician** 1997 Apr; 55(5):1574, 1576. Comment on: Am Fam Physician 1996 Aug;54(2):673-80, 683-5.

Effect of type A behavioral counseling on frequency of episodes of silent myocardial ischemia in coronary patients. Friedman M, et al. **Am Heart J** 1996 Nov;132(5):933-7

Statewide assessment of a behavioral intervention to reduce cigarette smoking by pregnant women. Wright LN, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):283-7; discussion 287-8

Two-year outcome of social skills training and group psychotherapy for outpatients with schizophrenia. Marder SR, et al. **Am J Psychiatry** 1996 Dec;153(12):1585-92

Detrimental effects of reward. Reality or myth? Eisenberger R, et al. **Am Psychol** 1996 Nov;51(11):1153-66 (110 ref.)

What predicts improvement and compliance during the behavioral treatment of obsessive compulsive disorder? Buchanan AW, et al. **Anxiety** 1996;2(1):22-7

Comparison of behavior therapy with and without very-low-energy diet in the treatment of morbid obesity. A 5-year outcome. Pekkarinen T, et al. **Arch Intern Med** 1997 Jul 28;157(14):1581-5

Long-term psychological outcomes in spinal cord injured persons: results of a controlled trial using cognitive behavior therapy. Craig AR, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):33-8

A management approach to anxiety. Lampe LA. **Aust Fam Physician** 1996 Oct;25(10):1561-3, 1566-7 (17 ref.)

Genetics and behavioral medicine: the error of the error term [see comments] McClearn GE, et al. **Behav Med** 1997 Winter;22(4):150-1. Comment in: Behav Med 1997 Winter;22(4):141-9.

Genetics and behavioral medicine: risk factors for cardiovascular disease [see comments] Vogler GP, et al. **Behav Med** 1997 Winter;22(4):141-9 (56 ref.). Comment in: Behav Med 1997 Winter;22(4):150-1.

Behavior therapy empowers persons with severe mental illness. Corrigan PW. **Behav Modif** 1997 Jan;21(1):45-61 (70 ref.)

Effect of a stimulus control intervention on attendance at a university fitness center. Estabrooks PA, et al. **Behav Modif** 1996 Apr;20(2):202-15

Schizophrenia. A cognitive model and its implications for psychological intervention. Hemsley DR. **Behav Modif** 1996 Apr;20(2):139-69 (126 ref.)

Planned Activities Training for mothers of children with developmental disabilities. Community generalization and follow-up. Huynen KB, et al. **Behav Modif** 1996 Oct; 20(4):406-27

Behavioral expressions of intolerance of uncertainty in worry. Experimental findings. Ladouceur R, et al. **Behav Modif** 1997 Jul;21(3):355-71

Behavioral momentum. Implications and development from reinforcement theories. Plaud JJ, et al. **Behav Modif** 1996 Apr;20(2):183-201 (38 ref.)

Methylphenidate and attentional training. Comparative effects on behavior and neurocognitive performance in twin girls with attention-deficit/hyperactivity disorder. Rapport MD, et al. **Behav Modif** 1996 Oct;20(4):428-30

A biobehavioral approach toward managing encopresis. Reimers TM. **Behav Modif** 1996 Oct;20(4):469-79

Issues on functional analysis in behavioral assessment. Cone JD. **Behav Res Ther** 1997 Mar;35(3):259-75 (85 ref.)

Biblical behavior modification. Lasure LC, et al. **Behav Res Ther** 1996 Jul;34(7):563-6

One-session group treatment of spider phobia. Ost LG. **Behav Res Ther** 1996 Sep;34(9):707-15

Application of a behavioral approach to measuring dietary change: the fat- and fiber-related diet behavior questionnaire. Shannon J, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):355-61

Cigarette smoking and coronary heart disease: risks and management. Rigotti NA, et al. **Cardiol Clin** 1996 Feb; 14(1):51-68 (113 ref.)

Psychosocial factors: role in cardiac risk and treatment strategies. Williams RB, et al. **Cardiol Clin** 1996 Feb; 14(1):97-104 (58 ref.)

Home-based behavioral treatment for chronic benign headache [editorial; comment] Ellertsen B. **Cephalalgia** 1997 Apr;17(2):102. Comment on: Cephalalgia 1997 Apr;17(2):113-8.

Home-based behavioral treatments for chronic benign headache: a meta-analysis of controlled trials [see comments] Haddock CK, et al. **Cephalalgia** 1997 Apr; 17(2):113-8. Comment in: Cephalalgia 1997 Apr;17(2):102.

Trichotillomania: a comprehensive behavioral model. Mansueto CS, et al. **Clin Psychol Rev** 1997;17(5):567-77 (19 ref.)

Changing behavior. Practical lessons from the diabetes control and complications trial. Lorenz RA, et al. **Diabetes Care** 1996 Jun;19(6):648-52

Motivational interviewing to improve adherence to a behavioral weight-control program for older obese women with NIDDM. A pilot study. Smith DE, et al. **Diabetes Care** 1997 Jan;20(1):52-4

The rise and fall of operant programs for the treatment of stammering [letter; comment] Ryan BP, et al. **Folia Phoniatr Logop** 1996;48(6):309-13. Comment on: Folia Phoniatr Logop 1994;46(5):232-40.

Non pharmacological treatment in Alzheimer's disease. Bianchetti A, et al. **Funct Neurol** 1997 May-Aug; 12(3-4):215-7

Behavioural intervention versus chemoprevention. Henderson M, et al. **IARC Sci Publ** 1996;(136):123-30 (54 ref.)

Roadblocks encountered in recruiting patients for a study of sleep disruption in Alzheimer's disease. Dowling GA, et al. **Image J Nurs Sch** 1997 Spring;29(1):59-64

New developments in behaviour therapy for obsessive-compulsive disorder. Greist JH. **Int Clin Psychopharmacol** 1996 Dec;11 Suppl 5:63-73 (79 ref.)

Issues in the design of trials for the evaluation of psychosocial treatments for social phobia. Heimberg RG, et al. **Int Clin Psychopharmacol** 1996 Jun;11 Suppl 3:55-64 (45 ref.)

Non-drug treatment for social phobia. van Dyck R. **Int Clin Psychopharmacol** 1996 Jun;11 Suppl 3:65-70 (45 ref.)

Weight development, drop-out pattern and changes in obesity-related risk factors after two years treatment of obese men. Andersson I, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):211-6

Long-term effects of a very low calorie diet (Nutrilett) in obesity treatment. A prospective, randomized, comparison between VLCD and a hypocaloric diet+behavior modification and their combination. Ryttig KR, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):574-9

Behavioral approaches to the treatment of Alzheimer's disease: research strategies. Proceedings of a conference. **Int Psychogeriatr** 1996;8 Suppl 1:5-144

Psychiatric symptoms and behavioral disturbances in dementia: a review of therapy. Burns A. **Int Psychogeriatr** 1996;8 Suppl 2:201-7 (25 ref.)

Behavioral manifestations of dementia: a research agenda. Tariot PN. **Int Psychogeriatr** 1996;8 Suppl 1:31-8 (11 ref.)

Relationship of behavioral disturbances in demented patients to institutional care. Winblad B. **Int Psychogeriatr** 1996;8 Suppl 1:133-5

Interpreting outcome studies [letter; comment] Salzer MS. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1419-20. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Jan;35(1):81-90.

The case for incorporating biobehavioral treatment into TMD management. Dworkin SF. **J Am Dent Assoc** 1996 Nov;127(11):1607-10

Integrating use of psychotropic drugs with environmental management and behavioral modification for treatment of problem behavior in animals [see comments] Hart BL, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1549-51 (6 ref.). Comment in: J Am Vet Med Assoc 1997 Jan 1;210(1):18-9.

Toward a standard experiment for studying post-treatment return of fear. Rose MP, et al. **J Anxiety Disord** 1997 May-Jun;11(3):263-77

Group and multifamily behavioral treatment for obsessive compulsive disorder: a pilot study. Van Noppen B, et al. **J Anxiety Disord** 1997 Jul-Aug;11(4):431-46

Prompted voiding to reduce incontinence in community-dwelling older adults. Adkins VK, et al. **J Appl Behav Anal** 1997 Spring;30(1):153-6

Effects of choosing academic assignments on a student with attention deficit hyperactivity disorder. Powell S, et al. **J Appl Behav Anal** 1997 Spring;30(1):181-3

Naming, the formation of stimulus classes, and applied behavior analysis. Stromer R, et al. **J Appl Behav Anal** 1996 Fall;29(3):409-31

Negative side effects of noncontingent reinforcement. Vollmer TR, et al. **J Appl Behav Anal** 1997 Spring; 30(1):161-4

Peer modeling of response chains: observational learning by students with disabilities. Werts MG, et al. **J Appl Behav Anal** 1996 Spring;29(1):53-66

Teaching preschool age autistic children to make spontaneous initiations to peers using priming. Zanolli K, et al. **J Autism Dev Disord** 1996 Aug;26(4):407-22

Behavior Therapy and Research Society. Roster of clinical fellows-1996 (including overseas fellows). **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):i-v

Cognitive concepts, behavior analysis, and behavior therapy. Dougher MJ. **J Behav Ther Exp Psychiatry** 1997 Mar; 28(1):65-70

Bridging barriers between paradigms: making cognitive concepts relevant for behavior analysis. Hawkins RP, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):3-6

Long-term maintenance of a behavioral alternative to surgery for severe vomiting and weight loss. Lockwood K, et al. **J Behav Ther Exp Psychiatry** 1997 Jun; 28(2):105-12

Cognition in behavior therapy: agreements and differences. Wilson KG, et al. **J Behav Ther Exp Psychiatry** 1997 Mar; 28(1):53-63

Behavioral therapy in children and adolescents with obsessive-compulsive disorder: a pilot study. Scahill L, et al. **J Child Adolesc Psychopharmacol** 1996 Fall;6(3):191-202

Behavior therapy and serotonin dysregulation [letter] Taylor S. **J Clin Psychiatry** 1997 Jul;58(7):323-4

Behavior therapy and the transdermal nicotine patch: effects on cessation outcome, affect, and coping. Cinciripini PM, et al. **J Consult Clin Psychol** 1996 Apr;64(2):314-23

Effects of behavioral and pharmacological treatment on smokeless tobacco users. Hatsukami D, et al. **J Consult Clin Psychol** 1996 Feb;64(1):153-61

Encopresis treatment outcome: long-term follow-up of 45 cases. Rockney RM, et al. **J Dev Behav Pediatr** 1996 Dec; 17(6):380-5

Sertraline enhances the effects of cognitive-behavioral treatment on weight reduction of obese patients. Ricca V, et al. **J Endocrinol Invest** 1996 Dec;19(11):727-33

Behavioral treatment of depression in dementia patients: a controlled clinical trial. Teri L, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jul;52(4):P159-66

Challenging behaviour: the effectiveness of specialist support teams. Lowe K, et al. **J Intellect Disabil Res** 1996 Aug; 40 (Pt 4):336-47

Impact of comorbid personality disorders and personality disorder symptoms on outcomes of behavioral treatment for cocaine dependence. Marlowe DB, et al. **J Nerv Ment Dis** 1997 Aug;185(8):483-90

Reducing high-risk interventions for managing aggression in psychiatric settings. Visalli H, et al. **J Nurs Care Qual** 1997 Feb;11(3):54-61

The 'no suicide contract': helpful or harmful? [see comments] Egan MP, et al. **J Psychosoc Nurs Ment Health Serv** 1997 Mar;35(3):31-3. Comment in: J Psychosoc Nurs Ment Health Serv 1997 May;35(5):11.

Behavior management training for long-term care staff: a note of caution. Maxfield MC, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Dec;34(12):37-8

Analysis and modification of verbal coaching behaviour: the usefulness of a data-driven intervention strategy. More KG, et al. **J Sports Sci** 1996 Dec;14(6):523-43

Spouse enabling of alcohol abuse: conception, assessment, and modification. Thomas EJ, et al. **J Subst Abuse** 1996; 8(1):61-80

Characterization and treatment of 20 canine dominance aggression cases. Uchida Y, et al. **J Vet Med Sci** 1997 May; 59(5):397-9

Human rights and the HIV paradox. Kirby M. **Lancet** 1996 Nov 2;348(9036):1217-8

Pilot findings of a percutaneous transluminal coronary angioplasty-restenosis-prone prevention program [letter; comment] Goodman M. **Mayo Clin Proc** 1997 May; 72(5):487. Comment on: Mayo Clin Proc 1996 Aug;71(8):729-34.

The search for functionality: the role of the environment in the development and maintenance of psychopathological symptoms. Brierley-Bowers P. **Md Med J** 1997 Apr; 46(4):187-9

Short-term effects of behavioral treatment on movement initiation and postural control in Parkinson's disease: a controlled clinical study. Müller V, et al. **Mov Disord** 1997 May;12(3):306-14

Strategies for weight control success in adults. Keller C, et al. **Nurse Pract** 1997 Mar;22(3):33, 37-8, 40 passim (43 ref.)

Applying the stages-of-change model to dietary change. Ni Mhurchu C, et al. **Nutr Rev** 1997 Jan;55(1 Pt 1):10-6 (24 ref.)

Eat slowly--from laboratory to clinic; behavioral control of eating [comment] Bray GA. **Obes Res** 1996 Jul;4(4):397-400 . Comment on: Obes Res 1996 Jul;4(4):401-10. Comment on: Obes Res 1996 Jul;4(4):411-7.

Dietary and exercise interventions for juvenile obesity: long-term effect of behavioral and public health models. Johnson WG, et al. **Obes Res** 1997 May;5(3):257-61

Behavioral control of overeating. 1967 [classical article] [see comments] Stuart RB. **Obes Res** 1996 Jul;4(4):411-7. Comment in: Obes Res 1996 Jul;4(4):397-400.

Lifestyle modification in the pharmacologic treatment of obesity: a pilot investigation of a potential primary care

approach. Wadden TA, et al. **Obes Res** 1997 May; 5(3):218–26

Effects of a personal trainer and financial incentives on exercise adherence in overweight women in a behavioral weight loss program. Wing RR, et al. **Obes Res** 1996 Sep; 4(5):457–62

Insulin sensitivity as a predictor of weight regain. Wing RR. **Obes Res** 1997 Jan;5(1):24–9

Behavioral and educational modalities. Dworkin SF. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):128–33 (24 ref.)

The clinical significance of behavioral treatment for chronic low back pain: an evaluation of effectiveness. Slater MA, et al. **Pain** 1997 Jul;71(3):257–63

75 percent of insured Americans now enrolled in managed behavioral health care programs [news] **Psychiatr Serv** 1997 Aug;48(8):1094–5

Managing students with behavior disorders: perceived efficacy of interventions. Abelson AG. **Psychol Rep** 1997 Jun;80(3 Pt 2):1167–70

Does using relapse prevention increase the efficacy of a program for smoking cessation?: An empirical study. Becoña E, et al. **Psychol Rep** 1997 Aug;81(1):291–6

Alterations of beta-endorphin-like immunoreactivity in CSF following behavioral training using a passive avoidance procedure. Wan RQ, et al. **Psychoneuroendocrinology** 1996 Aug;21(6):503–13

Does exposure to internal cues enhance exposure to external cues in agoraphobia with panic? A pilot controlled study of self-exposure. Ito LM, et al. **Psychother Psychosom** 1996; 65(1):24–28

Exposure and participant modelling in a case of injection phobia. Trijsburg RW, et al. **Psychother Psychosom** 1996; 65(1):57–61

Changing care staff approaches to the prevention and management of aggressive behaviour in a residential treatment unit for persons with mental retardation and challenging behaviour. Allen D, et al. **Res Dev Disabil** 1997 Mar–Apr;18(2):101–12

A behavioral diagnostic paradigm for integrating behavior-analytic and psychopharmacological interventions for people with a dual diagnosis. Pyles DA, et al. **Res Dev Disabil** 1997 May–Jun;18(3):185–214 (60 ref.)

Behaviour therapy in psychiatric outpatients. Ko SM, et al. **Singapore Med J** 1996 Apr;37(2):168–71

Medical approaches to gambling issues—II: The medical response. Miller MM. **Wis Med J** 1996 Sep;95(9):635–42 (60 ref.)

[Behavior and cognitive treatments for insomnia. An alternative to pharmacotherapy] Baillargeon L. **Can Fam Physician** 1997 Feb;43:290–6 (Eng. Abstr.) **(Fre)**

[Role of behavioral and cognitive techniques in the treatment of schizophrenia] Azaïs F, et al. **Presse Med** 1997 Jul 12; 26(24):1157–61 (17 ref.) (Eng. Abstr.) **(Fre)**

[Elderly patients should also utilize the possibilities of behavior therapy (interview by Elisabeth B. Moosman)] Hand I. **Fortschr Med** 1996 Sep 10;114(25):26, 28 **(Ger)**

[Ambulatory, comprehensive, behavior therapy-oriented weight reduction program (Optifast Program). An alternative therapy in obstructive sleep apnea] Herrendorf G, et al. **Nervenarzt** 1996 Aug;67(8):695–700 (Eng. Abstr.) **(Ger)**

[Decreasing violence in the school: study of a cooperative intervention] Nolting HP, et al. **Prax Kinderpsychol Kinderpsychiatr** 1997 Mar; 46(3):195–205 (Eng. Abstr.) **(Ger)**

ECONOMICS

Assessment of the Massachusetts Medicaid managed Behavioral Health Program: year three. Beinecke RH, et al. **Adm Policy Ment Health** 1997 Jan;24(3):205–20

Pursuit of the ordinary: short-term inpatient treatment. Goren S. **Arch Psychiatr Nurs** 1997 Apr;11(2):82–7

Characteristics and growth of managed behavioral health care firms. Kihlstrom LC. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):127–30

Cost-benefit and cost-effectiveness analyses of behavioral marital therapy as an addition to outpatient alcoholism treatment. O'Farrell TJ, et al. **J Subst Abuse** 1996; 8(2):145–66

Shorter stays, higher per diem charges found in partial hospital, ambulatory behavioral programs [news] **Psychiatr Serv** 1997 Feb;48(2):258–9

EDUCATION

Behavioral change in preventive medicine. An efficacy assessment of a physician education module. Pololi LH, et al. **J Gen Intern Med** 1996 Sep;11(9):545–7

HISTORY

The control of eating. 1962 [classical article] [see comments] Ferster CB, et al. **Obes Res** 1996 Jul;4(4):401–10. Comment in: Obes Res 1996 Jul;4(4):397–400.

INSTRUMENTATION

Using technology in behavioral approaches to Alzheimer's disease. Holmes D, et al. **Int Psychogeriatr** 1996;8 Suppl 1:67–71

[Device-assisted behavior therapy of 2 enuretic monozygotic sets of twins] Stegat H. **Z Kinder Jugenpsychiatr** 1996 Mar; 24(1):12–7 (Eng. Abstr.) **(Ger)**

METHODS

Parental communication deviance: its stability and the effect of family treatment in recent-onset schizophrenia. Nugter MA, et al. **Acta Psychiatr Scand** 1997 Mar;95(3):199–204

Drinking goal selection in behavioral self-management treatment of chronic alcoholics. Hodgins DC, et al. **Addict Behav** 1997 Mar–Apr;22(2):247–55

Intervention for relapse to smoking: the Lung Health Study restart programs. Murray RP, et al. **Addict Behav** 1997 Mar–Apr;22(2):281–6

Meta-analytic study on treatment effectiveness for problem behaviors with individuals who have mental retardation. Didden R, et al. **Am J Ment Retard** 1997 Jan;101(4):387–99

Integrating caregiver report with systematic choice assessment to enhance reinforcer identification. Fisher WW, et al. **Am J Ment Retard** 1996 Jul;101(1):15–25

Sensitivity theory and mental retardation: why functional analysis is not enough. Reiss S, et al. **Am J Ment Retard** 1997 May;101(6):553–66

Management of avoidance behaviors using direct and indirect psychological methods. Yuen HK. **Am J Occup Ther** 1996 Jul–Aug;50(7):578–82

Comparison of efficacy of social skills training for deficit and nondeficit negative symptoms in schizophrenia. Kopelowicz A, et al. **Am J Psychiatry** 1997 Mar; 154(3):424–5

Behavioral management of conversion disorder in children. Gooch JL, et al. **Arch Phys Med Rehabil** 1997 Mar; 78(3):264–8

Behavioral treatment of conversion disorder in adolescence. A case example of Globus Hystericus. Donohue B, et al. **Behav Modif** 1997 Apr;21(2):231–51

Scripted sequences of teacher interaction. A versatile, low-impact procedure for increasing appropriate behavior in a nursery school. Martens BK, et al. **Behav Modif** 1997 Jul;21(3):308–23

When reprimand consistency may and may not matter. Sherrill JT, et al. **Behav Modif** 1996 Apr;20(2):226–36

Chronic nailbiting: a controlled comparison of competing response and mild aversion treatments. Allen KW. **Behav Res Ther** 1996 Mar;34(3):269–72

Behavioural hearing tactics: a controlled trial of a short treatment programme. Andersson G, et al. **Behav Res Ther** 1997 Jun;35(6):523–30

Conceptualization and treatment of bowel obsessions: two case reports. Hatch ML. **Behav Res Ther** 1997 Mar; 35(3):253–7

The private practice psychologist and manual-based treatments: post-traumatic stress disorder secondary to motor vehicle accidents [see comments] Hickling EJ, et al. **Behav Res Ther** 1997 Mar;35(3):191–203. Comment in: Behav Res Ther 1997 Mar;35(3):205–10.

Family processes and child risk for injury. Peterson L, et al. **Behav Res Ther** 1997 Mar;35(3):179–90 (70 ref.)

Treatment manuals in clinical practice [comment] Wilson GT. **Behav Res Ther** 1997 Mar;35(3):205–10. Comment on: Behav Res Ther 1997 Mar;35(3):191–203.

Reducing stereotyped behaviour: a comparison of two methods of programming differential reinforcement. Miller BY, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):297–302

Improving schizophrenic in-patients' Wisconsin card-sorting performance. Nisbet H, et al. **Br J Clin Psychol** 1996 Nov; 35 (Pt 4):631–3

The treatment of sexually dysfunctional men without partners: a controlled study of three behavioural group approaches. Stravynski A, et al. **Br J Psychiatry** 1997 Apr; 170:338–44

The effectiveness of DRL in the management and treatment of severe behaviour disorders following brain injury [published erratum appears in Brain Inj 1997 Jul;11(7):541–2] Alderman N, et al. **Brain Inj** 1997 Feb; 11(2):79–101

Therapy methodology. Riding the bus: teaching an adult with a brain injury to use a transit system to travel independently to and from work. Newbigging ED, et al. **Brain Inj** 1996 Jul;10(7):543–50

Behavioral treatment of panic disorder in children and adolescents. Griegel LE. **Curr Opin Pediatr** 1996 Aug; 8(4):355–60 (22 ref.)

Behavioral therapy for obesity. Williamson DA, et al. **Endocrinol Metab Clin North Am** 1996 Dec;25(4):943–54 (47 ref.)

Applied behavior analysis for behavior problems in Alzheimer's disease. Bakke BL. **Geriatrics** 1997 Sep;52 Suppl 2:S40–3

Modifying repetitive verbalizations of community-dwelling patients with AD. Bourgeois MS, et al. **Gerontologist** 1997 Feb;37(1):30–9

Effects of a mass media behavioral treatment for chronic headache: a pilot study. de Bruijn-Kofman AT, et al. **Headache** 1997 Jul–Aug;37(7):415–20

Skills training treatment for adaptive affect regulation in a woman with binge-eating disorder. Telch CF. **Int J Eat Disord** 1997 Jul;22(1):77–81

Behaviour therapy for obsessive compulsive disorder in a 78-year-old woman. Colvin C, et al. **Int J Geriatr Psychiatry** 1997 Apr;12(4):488–91

Challenges in management of Alzheimer's disease behavioral symptoms. Baldwin BA. **Int Psychogeriatr** 1996;8 Suppl 1:117–9

Interventions, outcomes, and efficacy in Alzheimer's disease behavioral research. Beck C. **Int Psychogeriatr** 1996;8 Suppl 1:63–6

Evaluation of interventions in Alzheimer's disease. Beck C. **Int Psychogeriatr** 1996;8 Suppl 1:17–20

Impediments to research progress in development of behavioral approaches to treatment and care of persons with Alzheimer's disease. Berg L. **Int Psychogeriatr** 1996; 8 Suppl 1:113–4

Supporting functional behavior in Alzheimer's disease. Borell L. **Int Psychogeriatr** 1996;8 Suppl 1:123–5

Interventions for family caregivers of patients with Alzheimer's disease in community-based settings: items for consideration. Buckwalter K. **Int Psychogeriatr** 1996;8 Suppl 1:121–2

Interventions for the behavioral complications of Alzheimer's disease: behavioral approaches. Burgio L. **Int Psychogeriatr** 1996;8 Suppl 1:45–52 (35 ref.)

New ways to approach manifestations of Alzheimer's disease and to reduce caregiver burden. Cohen-Mansfield J. **Int Psychogeriatr** 1996;8 Suppl 1:91–4

Barriers to behavioral research on dementia. Cummings JL. **Int Psychogeriatr** 1996;8 Suppl 1:21–3

Neuropsychiatric assessment and intervention in Alzheimer's disease. Cummings JL. **Int Psychogeriatr** 1996;8 Suppl 1:25–30 (15 ref.)

Behavioral intervention strategies for sleep-activity disruption. Dowling GA. **Int Psychogeriatr** 1996;8 Suppl 1:77–86 (34 ref.)

Behavioral treatment of Alzheimer's disease. Ferris SH, et al. **Int Psychogeriatr** 1996;8 Suppl 1:87–90 (3 ref.)

Supporting everyday activities in dementia. Josephsson S. **Int Psychogeriatr** 1996;8 Suppl 1:141–4

Behavioral problems and interventions in Alzheimer's disease: research needs. Lawton MP. **Int Psychogeriatr** 1996;8 Suppl 1:95–8

Relationship between patient characteristics and the effectiveness of nonpharmacologic approaches to prevent or treat behavioral symptoms. Maslow K. **Int Psychogeriatr** 1996;8 Suppl 1:73–6

Measuring outcomes in Alzheimer's disease. Montgomery RJ. **Int Psychogeriatr** 1996;8 Suppl 1:13–6 (13 ref.)

Next steps for social and behavioral research related to Alzheimer's disease. Montgomery RJ. **Int Psychogeriatr** 1996;8 Suppl 1:103–7

Behavioral approaches to the treatment of Alzheimer's disease: research strategies. Radebaugh TS, et al. **Int Psychogeriatr** 1996;8 Suppl 1:7–12

A research agenda for disruptive behaviors in Alzheimer's disease: a combined biomedical and behavioral approach. Raskind M. **Int Psychogeriatr** 1996;8 Suppl 1:53–8 (29 ref.)

Behavioral approaches to treatment of Alzheimer's disease. Reifler BV. **Int Psychogeriatr** 1996;8 Suppl 1:99–102

Behavioral intervention approaches to the treatment and management of Alzheimer's disease: a research agenda. Reisberg B. **Int Psychogeriatr** 1996;8 Suppl 1:38–44

Methodological issues in the management of behavioral disturbances in dementia. Swearer JM. **Int Psychogeriatr** 1996;8 Suppl 1:59–62

Barriers to behavioral studies in Alzheimer's disease. Wells TJ. **Int Psychogeriatr** 1996;8 Suppl 1:115–6

Interventions for family management of patients with Alzheimer's disease. Wykle ML. **Int Psychogeriatr** 1996;8 Suppl 1:109–11

Case study: chewing gum treatment of rumination in an adolescent with an eating disorder. Weakley MM, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug;36(8):1124–7

An alternating treatments comparison of two intensive interventions for food refusal. Ahearn WH, et al. **J Appl Behav Anal** 1996 Fall;29(3):321–32

Separate and combined effects of methylphenidate and a behavioral intervention on disruptive behavior in children with mental retardation. Blum NJ, et al. **J Appl Behav Anal** 1996 Fall;29(3):305–19

Using self-management procedures to improve the productivity of adults with developmental disabilities in a competitive employment setting. Christian L, et al. **J Appl Behav Anal** 1997 Spring;30(1):169–72

Direct and collateral effects of restraints and restraint fading. Fisher WW, et al. **J Appl Behav Anal** 1997 Spring; 30(1):105–19; quiz 120

Effects of equal and unequal reinforcer duration during functional analysis. Fisher WW, et al. **J Appl Behav Anal** 1996 Spring;29(1):117–20

Training and generalization of affective behavior displayed by youth with autism. Gena A, et al. **J Appl Behav Anal** 1996 Fall;29(3):291–304

Reducing the illegal sales of cigarettes to minors: analysis of alternative enforcement schedules. Jason L, et al. **J Appl Behav Anal** 1996 Fall;29(3):333–44

A rapid method for evaluating the necessity for both a behavioral intervention and methylphenidate. Kayser KH, et al. **J Appl Behav Anal** 1997 Spring;30(1):177–80

Noncontingent reinforcement as treatment for severe problem behavior: some procedural variations. Lalli JS, et al. **J Appl Behav Anal** 1997 Spring;30(1):127–36; quiz 136–7

Treatment of multiply controlled problem behavior. Lalli JS, et al. **J Appl Behav Anal** 1996 Fall;29(3):391–5

Functional analysis and treatment of eye poking with response blocking. Lalli JS, et al. **J Appl Behav Anal** 1996

Spring;29(1):129–32
Developing a technology for the use of operant extinction in clinical settings: an examination of basic and applied research. Lerman DC, et al. **J Appl Behav Anal** 1996 Fall; 29(3):345–82; discussion 383–5 (260 ref.)
Brief experimental analysis of stimulus prompts for accurate responding on academic tasks in an outpatient clinic. McComas JJ, et al. **J Appl Behav Anal** 1996 Fall; 29(3):397–401
Effects of reinforcer quality on behavioral momentum: coordinated applied and basic research. Mace FC, et al. **J Appl Behav Anal** 1997 Spring;30(1):1–20
Combining noncontingent reinforcement and differential reinforcement schedules as treatment for aberrant behavior. Marcus BA, et al. **J Appl Behav Anal** 1996 Spring; 29(1):43–51
A preliminary analysis of interactive effects between common classroom contingencies and methylphenidate. Northup J, et al. **J Appl Behav Anal** 1997 Spring;30(1):121–5
Choice-making treatment of young children's severe behavior problems. Peck SM, et al. **J Appl Behav Anal** 1996 Fall;29(3):263–90
Multiple peer use of pivotal response training to increase social behaviors of classmates with autism: results from trained and untrained peers. Pierce K, et al. **J Appl Behav Anal** 1997 Spring;30(1):157–60
Does functional communication training compete with ongoing contingencies of reinforcement? An analysis during response acquisition and maintenance. Shirley MJ, et al. **J Appl Behav Anal** 1997 Spring;30(1):93–104
An analysis of reinforcer substitutability using object manipulation and self-injury as competing responses. Shore BA, et al. **J Appl Behav Anal** 1997 Spring;30(1):21–41
Toward a functional analysis of private verbal self-regulation. Taylor I, et al. **J Appl Behav Anal** 1997 Spring;30(1):43–58
A prompt plus delayed contingency procedure for reducing bathroom graffiti. Watson TS. **J Appl Behav Anal** 1996 Spring;29(1):121–4
Anger management training with mild essential hypertensive patients. Larkin KT, et al. **J Behav Med** 1996 Oct; 19(5):415–33
A functional-analytic approach to the diagnosis of a transient tic disorder. Carr JE, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):291–7
A brief behavior therapy protocol for Tourette syndrome. Carr JE, et al. **J Behav Ther Exp Psychiatry** 1996 Mar; 27(1):33–40
A systematic replication of the prescriptive treatment of school refusal behavior in a single subject. Chorpita BF, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):281–90
More theory-driven and less diagnosis-based behavior therapy. Eifert GH. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):75–86 (50 ref.)
Individualizing therapy, customizing clinical science. Evans IM. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):99–105 (24 ref.)
"Cleaning-up cognition" in triple-response fear assessment through individualized functional behavior analysis. Forsyth JP, et al. **J Behav Ther Exp Psychiatry** 1996 Jun; 27(2):87–98 (60 ref.)
A behavior analytic interpretation of attributions in the context of behavior therapy. Forsyth JP, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):17–29
How can behavior therapy treat the same disorder with different techniques and different disorders with the same technique? [see comments] Gavino A, et al. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):107–17 (50 ref.). Comment in: J Behav Ther Exp Psychiatry 1996 Sep;27(3):311–2.
Temporomandibular disorder: efficacy of an oral habit reversal treatment program. Gramling SE, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):245–55
The behavior analytic perspective: its nature, prospects, and limitations for behavior therapy. Hawkins RP, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):7–16
The behavioral treatment of auditory hallucinatory responding of a schizophrenic patient. Jimenez JM, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):299–310
Functional assessment and treatment of aggressive and destructive behaviors in a child victim of physical abuse. Luiselli JK. **J Behav Ther Exp Psychiatry** 1996 Mar; 27(1):41–9
Teaching toilet skills in a public school setting to a child with pervasive developmental disorder. Luiselli JK. **J Behav Ther Exp Psychiatry** 1997 Jun;28(2):163–8
Social skills training in a case of obsessive-compulsive disorder with schizotypal personality disorder. Mckay D, et al. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):189–94
Simplified treatment and long term follow-up for stuttering in adults: a study of two cases. Miltenberger RG, et al. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):181–8
Human behavioral momentum: implications for applied behavior analysis and therapy. Plaud JJ, et al. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):139–48
Reinforcement history: a concept underutilized in behavior analysts. Salzinger K. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):199–207
Environment-behavior relations, behavior therapy and the process of persuasion and attitude change. Schauss SL, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):31–40
Tailor-made and standardized therapy: complementary tasks in behavior therapy. A contrarian view. Schulte D. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):119–26 (31 ref.)
The use of contingency management in the treatment of a geriatric nursing home patient with psychogenic vomiting. Sloan DM, et al. **J Behav Ther Exp Psychiatry** 1996 Mar; 27(1):57–65
Different disorders and different treatments [comment] Thyer BA. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):311–2. Comment on: J Behav Ther Exp Psychiatry 1996 Jun;27(2):107–17.
A simplified habit reversal treatment for pica-related chewing. Woods DW, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):257–62
Practitioner review: psychosocial treatments for conduct disorder in children. Kazdin AE. **J Child Psychol Psychiatry** 1997 Feb;38(2):161–78 (150 ref.)
Behavioral couples therapy for male substance-abusing patients: effects on relationship adjustment and drug-using behavior. Fals-Stewart W, et al. **J Consult Clin Psychol** 1996 Oct;64(5):959–72
Embedding comprehensive behavioral support in family ecology: an experimental, single-case analysis. Lucyshyn JM, et al. **J Consult Clin Psychol** 1997 Apr;65(2):241–51
An evaluation of a television-delivered behavioral weight loss program: are the ratings acceptable? Meyers AW, et al. **J Consult Clin Psychol** 1996 Feb;64(1):172–8
Treating children with early-onset conduct problems: a comparison of child and parent training interventions. Webster-Stratton C, et al. **J Consult Clin Psychol** 1997 Feb; 65(1):93–109
Hypnobehavioral approaches for school-age children with dysphagia and food aversion: a case series. Culbert TP, et al. **J Dev Behav Pediatr** 1996 Oct;17(5):335–41
Behavioral-medical treatment of pediatric toileting refusal. Luxem MC, et al. **J Dev Behav Pediatr** 1997 Feb; 18(1):34–41
Increasing on-task behaviour through interruption-prompting. Duker PC, et al. **J Intellect Disabil Res** 1996 Aug;40 (Pt 4):291–7
The effects of behavioural relaxation on cognitive performance in adults with severe intellectual disabilities. Lindsay WR, et al. **J Intellect Disabil Res** 1996 Aug;40 (Pt 4):285–90
Staff strategies and explanations for intervening with challenging behaviours: a replication in a community sample. Watts MJ, et al. **J Intellect Disabil Res** 1997 Jun; 41 (Pt 3):258–63
New developments in the management of violent children and adolescents. Smith CA. **J Paediatr Child Health** 1996 Dec;32(6):480–3 (28 ref.)
Childhood enuresis: application of Orem's Self-Care Practice Model to home visits in Turkey. Terakye G, et al. **J Pediatr Nurs** 1997 Jun;12(3):193–7
A video system to help children cooperate with motion control for radiation treatment without sedation. Slifer KJ. **J Pediatr Oncol Nurs** 1996 Apr;13(2):91–7
Effective group behavioral intervention for older periodontal patients. Little SJ, et al. **J Periodontal Res** 1997 Apr; 32(3):315–25
Auditory hallucinations in schizophrenia. Group experience in examining symptom management and behavioral strategies. Buccheri R, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Feb;34(2):12–26
Behavioral approach with or without surgical intervention to the vulvar vestibulitis syndrome: a prospective randomized and non-randomized study. Weijmar Schultz WC, et al. **J Psychosom Obstet Gynaecol** 1996 Sep; 17(3):143–8
A field trial of the effectiveness of behavioral treatment for sexual dysfunctions. Sarwer DB, et al. **J Sex Marital Ther** 1997 Summer;23(2):87–97
Autism: time for a national approach to early assessment and management [letter; comment] Sampson AJ, et al. **Med J Aust** 1997 Apr 21;166(8):443; discussion 443, 446. Comment on: Med J Aust 1996 Sep 2;165(5):244–5.
Adjuvant psychological therapy for cancer patients. Greer S, et al. **Palliat Med** 1997 May;11(3):240–4
Monetary reinforcement of abstinence from cocaine among mentally ill patients with cocaine dependence. Shaner A, et al. **Psychiatr Serv** 1997 Jun;48(6):807–10
Training hospitalized patients with schizophrenia in community reintegration skills. Smith TE, et al. **Psychiatr Serv** 1996 Oct;47(10):1099–103
Generalization and maintenance of treatment gains using self-management procedures with behaviorally disordered adolescents. Gregory KM, et al. **Psychol Rep** 1997 Apr; 80(2):683–90
The treatment of posttraumatic stress disorder (PTSD) [letter; comment] Rosch PJ. **Psychosom Med** 1997 Jan-Feb; 59(1):71. Comment on: Psychosom Med 1996 Mar-Apr;58(2):165–82.
The effect of behavioral intervention on the psychological distress of Holocaust survivors with cancer. Baider L, et al. **Psychother Psychosom** 1997;66(1):44–9
Lucid dreaming as a treatment for recurrent nightmares. Zadra AL, et al. **Psychother Psychosom** 1997;66(1):50–5
A model of community mobilization for the prevention of HIV in women and infants. Prevention of HIV in Women and Infants Demonstration Projects. Person B, et al. **Public Health Rep** 1996;111 Suppl 1:89–98
Component analysis and stimulus control assessment of a behavior deceleration treatment package. Cameron MJ, et al. **Res Dev Disabil** 1996 May-Jun;17(3):203–15
Stimulus control and resistance to extinction in attention-maintained SIB. Hanley GP, et al. **Res Dev Disabil** 1997 Jul-Aug;18(4):251–60
Analysis and intervention with two topographies of challenging behavior exhibited by a young woman with autism. Kern L, et al. **Res Dev Disabil** 1997 Jul-Aug; 18(4):275–87
Behavioral treatment of autistic persons: a review of research from 1980 to the present. Matson JL, et al. **Res Dev Disabil** 1996 Nov-Dec;17(6):433–65 (135 ref.)
Assessment and treatment of episodic self-injury: a case study. O'Reilly MF. **Res Dev Disabil** 1996 Sep-Oct; 17(5):349–61
The effect of noncontingent sensory reinforcement, contingent sensory reinforcement, and response interruption on stereotypical and self-injurious behavior. Sprague J, et al. **Res Dev Disabil** 1997 Jan-Feb;18(1):61–77
The effects of implementing program consequences with a group of individuals who engaged in sensory maintained hand mouthing. Turner WD, et al. **Res Dev Disabil** 1996 Jul-Aug;17(4):311–30
Description and effects of sequential behavior practice in teacher education. Sharpe T, et al. **Res Q Exerc Sport** 1997 Sep;68(3):222–32
Combination therapy for nocturnal enuresis with desmopressin and an alarm device. Bradbury M. **Scand J Urol Nephrol Suppl** 1997;183:61–3
Alarm treatment: influence on functional bladder capacity. Hansen AF, et al. **Scand J Urol Nephrol Suppl** 1997; 183:59–60
Prognostic factors for alarm treatment. Rappaport L. **Scand J Urol Nephrol Suppl** 1997;183:55–7; discussion 57–8 (23 ref.)
Using learning theory in animal behavior therapy practice. Mills DS. **Vet Clin North Am Small Anim Pract** 1997 May; 27(3):617–35 (38 ref.)
[M. Linehan dialectic behavioral psychotherapy. A new concept in the treatment of borderline personality disorders] Bohus M, et al. **Nervenarzt** 1996 Nov; 67(11):911–23 (33 ref.) (Eng. Abstr.) **(Ger)**
[Concept for a behavior therapy treatment program in primary insomnia] Zschintzsch A, et al. **Nervenarzt** 1996 Mar;67(3):244–8 (Eng. Abstr.) **(Ger)**
[Treatment failures and analysis of resistance in behavior therapy exemplified by a parent-child program for the treatment of hyperkinetic and oppositional children] Dopfner M, et al. **Prax Kinderpsychol Kinderpsychiatr** 1996 Jan;45(1):10–19 (0 ref.) (Eng. Abstr.) **(Ger)**
[Behavior therapy with aggressive children] Petermann F, et al. **Prax Kinderpsychol Kinderpsychiatr** 1997 Mar; 46(3):228–35 (Eng. Abstr.) **(Ger)**
[Presenting the treatment of an anorexia patient] Eckert C. **Psychiatr Prax** 1997 Jan;24(1):44–5 **(Ger)**

ORGANIZATION & ADMINISTRATION

Coronary risk factor modification in women after coronary artery bypass surgery. Allen JK. **Nurs Res** 1996 Sep-Oct; 45(5):260–5

STANDARDS

Social implications of behavioral interventions for persons with mental retardation. Bihm EM, et al. **Am J Ment Retard** 1997 May;101(6):567–78
The effects of child behavior problems on the maintenance of intervention fidelity. McConnachie G, et al. **Behav Modif** 1997 Apr;21(2):123–58
The efficacy of a response cost-based treatment package for managing aggressive behavior in preschoolers. Reynolds LK, et al. **Behav Modif** 1997 Apr;21(2):216–30
A maintenance program for obsessive-compulsive disorder using exposure with response prevention: 2-year follow-up. McKay D. **Behav Res Ther** 1997 Apr; 35(4):367–9
Body dysmorphic disorder: a preliminary evaluation of treatment and maintenance using exposure with response prevention. McKay D, et al. **Behav Res Ther** 1997 Jan; 35(1):67–70
One-session group therapy of spider phobia: direct versus indirect treatments. Ost LG, et al. **Behav Res Ther** 1997 Aug;35(8):721–32
Consumer opinion concerning the treatment of a common sleep problem. Bramble D. **Child Care Health Dev** 1996 Nov;22(6):355–66
Effects of decreasing sedentary behaviors on activity choice in obese children. Epstein LH, et al. **Health Psychol** 1997 Mar;16(2):107–13
Parent-assisted transfer of children's social skills training: effects on children with and without attention-deficit hyperactivity disorder. Frankel F, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1056–64
Influence of owner personality type on expression and treatment outcome of dominance aggression in dogs. Dodman NH, et al. **J Am Vet Med Assoc** 1996 Sep 15; 209(6):1107–9
Effectiveness of psychological and pharmacological treatments for obsessive-compulsive disorder: a quantitative review. Abramowitz JS. **J Consult Clin Psychol** 1997 Feb;65(1):44–52

Prospective evaluation of three smoking interventions in 205 recovering alcoholics: one-year results of Project SCRAP-Tobacco. Martin JE, et al. **J Consult Clin Psychol** 1997 Feb;65(1):190-4

Comparison of palmtop-computer-assisted brief cognitive-behavioral treatment to cognitive-behavioral treatment for panic disorder. Newman MG, et al. **J Consult Clin Psychol** 1997 Feb;65(1):178-83

Treating children with early-onset conduct problems: a comparison of child and parent training interventions. Webster-Stratton C, et al. **J Consult Clin Psychol** 1997 Feb; 65(1):93-109

Nurse coaching and cartoon distraction: an effective and practical intervention to reduce child, parent, and nurse distress during immunizations. Cohen LL, et al. **J Pediatr Psychol** 1997 Jun;22(3):355-70

The use of scheduled awakenings to eliminate childhood sleepwalking. Frank NC, et al. **J Pediatr Psychol** 1997 Jun; 22(3):345-53

Social skills training for drug prevention in high-risk female adolescents. Palinkas LA, et al. **Prev Med** 1996 Nov-Dec; 25(6):692-701

Evaluation of the HEDIS measure of behavioral health care quality. Health Plan Employer Data and Information Set [see comments] Druss B, et al. **Psychiatr Serv** 1997 Jan; 48(1):71-5. Comment in: Psychiatr Serv 1997 Jul;48(7):956-7.

A model for evaluating intensive outpatient behavioral health care programs. Raskin R, et al. **Psychiatr Serv** 1996 Nov; 47(11):1227-32

The concept of outcome. Hunt S. **Scand J Urol Nephrol Suppl** 1997;183:71-4

STATISTICS & NUMERICAL DATA

The standard deviation as an informative measure of variability in reporting interobserver agreement means. Carr JE, et al. **J Behav Ther Exp Psychiatry** 1996 Sep; 27(3):263-7

Neural network simulation of visual inspection of graphs of single-subject interventions. Gilpin AR. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):763-70

The control group dilemma in clinical research: applications for psychosocial and behavioral medicine trials. Schwartz CE, et al. **Psychosom Med** 1997 Jul-Aug;59(4):362-71

Some current themes in functional analysis research. Vollmer TR, et al. **Res Dev Disabil** 1996 May-Jun;17(3):229-49 (75 ref.)

TRENDS

[Behavior therapy and psychiatry] Zapotoczky HG, et al. **Ther Umsch** 1996 Mar;53(3):210-6 (Eng. Abstr.) **(Ger)**

BEHAVIOR THERAPY, COGNITIVE see **COGNITIVE THERAPY**

BEHAVIORAL MEDICINE

Health psychology: what is an unhealthy environment and how does it get under the skin? Taylor SE, et al. **Annu Rev Psychol** 1997;48:411-47 (215 ref.)

[Psychology and behavioral biology--why make it difficult? (letter)] Grinde B. **Tidsskr Nor Laegeforen** 1996 Nov 30; 116(29):3529-30 **(Nor)**

[Medical aspects of prolongation of occupational longevity] Stupakov GP, et al. **Aviakosm Ekolog Med** 1997;31(3):4-7 (Eng. Abstr.) **(Rus)**

EDUCATION

Music improves emotional awareness [letter] Alexander M, et al. **Fam Med** 1996 May;28(5):318

Clinical training in self-regulation and practical pediatric hypnosis: what pediatricians want pediatricians to know. Mize WL. **J Dev Behav Pediatr** 1996 Oct;17(5):317-22

METHODS

Biofeedback with children and adolescents: clinical observations and patient perspectives. Culbert TP, et al. **J Dev Behav Pediatr** 1996 Oct;17(5):342-50 (148 ref.)

The effects of hypnosis/guided imagery on the postoperative course of children. Lambert SA. **J Dev Behav Pediatr** 1996 Oct;17(5):307-10

Hypnosis and biofeedback with children and adolescents; clinical, research, and educational aspects. Introduction. Olness K. **J Dev Behav Pediatr** 1996 Oct;17(5):299

Hypnosis in a primary care practice: developing skills for the "new morbidities". Sugarman LI. **J Dev Behav Pediatr** 1996 Oct;17(5):300-5

Behavioural assessment and treatment of chronic headaches in children. King NJ, et al. **J Paediatr Child Health** 1996 Oct;32(5):359-61 (15 ref.)

TRENDS

Genetics and behavioral medicine. McClearn GE, et al. **Behav Med** 1996 Fall;22(3):93-102 (26 ref.)

BEHAVIORAL SCIENCES

Basic behavioral science research for mental health: thought and communication. **Am Psychol** 1996 Mar;51(3):181-9

The partnership between behavioral and preventive medicine. McBride JL. **J Med Assoc Ga** 1996 Sep; 85(3):153-5

Development and use of role model stories in a community level HIV risk reduction intervention. Corby NH, et al. **Public Health Rep** 1996;111 Suppl 1:54-8

Bridging the gap between behavioral science and public health practice in HIV prevention [editorial] Curran JW. **Public Health Rep** 1996;111 Suppl 1:3-4

Behavioral science and public health: a necessary partnership for HIV prevention [editorial] Fishbein M, et al. **Public Health Rep** 1996;111 Suppl 1:5-10

Adaptation of behavioral theory to CDC's HIV prevention research: experience at the Centers for Disease Control and Prevention [editorial] Leviton LC, et al. **Public Health Rep** 1996;111 Suppl 1:11-7 (45 ref.)

The use of theory based semistructured elicitation questionnaires: formative research for CDC's Prevention Marketing Initiative. Middlestadt SE, et al. **Public Health Rep** 1996;111 Suppl 1:18-27

The importance of behavioral science in HIV prevention [editorial] Satcher D. **Public Health Rep** 1996;111 Suppl 1:1-2

Integrating behavioral and social sciences research at the National Institutes of Health, U.S.A. Anderson NB. **Soc Sci Med** 1997 Apr;44(7):1069-71

EDUCATION

CBS program promotes strong interdisciplinary foundation [letter] Belch R, et al. **Acad Med** 1997 May;72(5):319-20

Nurturing scientific minds: Menninger at mid-20th century. Holzman PS. **Bull Menninger Clin** 1996 Fall;60(4):503-13

Family practice residency behavioral science training: influence on graduate practice activity. Prislin MD, et al. **Fam Med** 1997 Jul-Aug;29(7):483-7

Integration of mental health and medical records: practices and opinions of behavioral scientists. Sanders D, et al. **Fam Med** 1997 Jul-Aug;29(7):496-9

The WHO Program on Mental Health Behavioral Science Learning Modules [editorial] Orley J. **Int J Psychiatry Med** 1996;26(2):107-8

Attitudes towards the relevance of biological, behavioural and social sciences in nursing education. Thornton T. **J Adv Nurs** 1997 Jul;26(1):180-6

METHODS

The behavior analytic perspective: its nature, prospects, and limitations for behavior therapy. Hawkins RP, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):7-16

TRENDS

Behavioral science activities at the Centers for Disease Control and Prevention. A selected overview of exemplary programs. Galavotti C, et al. **Am Psychol** 1997 Feb; 52(2):154-66 (100 ref.)

Influence of behavioral and social science on public health policymaking. Holtgrave DR, et al. **Am Psychol** 1997 Feb; 52(2):167-73

Behavioral scientists at the Centers for Disease Control and Prevention. Evolving and integrated roles. Roberts GW, et al. **Am Psychol** 1997 Feb;52(2):143-6

Centers for Disease Control and Prevention partnerships with external behavioral and social scientists. Roles, extramural funding, and employment. Rugg DL, et al. **Am Psychol** 1997 Feb;52(2):147-53

Behavioral and social sciences at the Centers for Disease Control and Prevention. Critical disciplines for public health. Snider DE Jr, et al. **Am Psychol** 1997 Feb; 52(2):140-2

Behavioral and social research in rheumatology [see comments] Callahan LF, et al. **Curr Opin Rheumatol** 1997 Mar;9(2):126-32 (40 ref.). Comment in: Curr Opin Rheumatol 1997 Mar;9(2):87-9.

The science of animal cognition: past, present, and future. Wasserman EA. **J Exp Psychol Anim Behav Process** 1997 Apr;23(2):123-35 (90 ref.)

National trends of research in behavioral and medical sciences. Fava GA, et al. **Psychother Psychosom** 1996; 65(6):281-6; discussion 286-92

BEHAVIORISM

Cognitive concepts, behavior analysis, and behavior therapy. Dougher MJ. **J Behav Ther Exp Psychiatry** 1997 Mar; 28(1):65-70

A behavior analytic interpretation of attributions in the context of behavior therapy. Forsyth JP, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):17-29

Cognitive vs. contextual causation: different world views but perhaps not irreconcilable. Forsyth JP, et al. **J Behav Ther Exp Psychiatry** 1996 Dec;27(4):369-76

The Darwinian status of mind. Garcia J. **J Behav Ther Exp Psychiatry** 1996 Dec;27(4):347-50

What are the benefits from a debate about cognition, behavior, and causality? Hawkins RM. **J Behav Ther Exp Psychiatry** 1996 Dec;27(4):351-6

Bridging barriers between paradigms: making cognitive concepts relevant for behavior analysis. Hawkins RP, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):3-6

The behavior analytic perspective: its nature, prospects, and limitations for behavior therapy. Hawkins RP, et al. **J Behav Ther Exp Psychiatry** 1997 Mar;28(1):7-16

Arguing with the cognitivists. Lee C. **J Behav Ther Exp Psychiatry** 1996 Dec;27(4):357-61

Science, philosophy and man's mind. Locke EA. **J Behav Ther Exp Psychiatry** 1996 Dec;27(4):363-8

Cognition in behavior therapy: agreements and differences. Wilson KG, et al. **J Behav Ther Exp Psychiatry** 1997 Mar; 28(1):53-63

Conditioning and ethological models of anxiety disorders: stress-in-dynamic-context anxiety models. Mineka S, et al. **Nebr Symp Motiv** 1996;43:135-210 (235 ref.)

[From the "limited" neuropsychology to cognitive and dynamic neuropsychology with the reminding of behavior neurology and biological psychiatry and allusion to behaviorism] Barraquer-Bordas L. **Rev Neurol** 1996 Jan; 24(125):101-3 **(Spa)**

BEHCET'S SYNDROME

Behçet's syndrome: a review for the genitourinary medicine physician. Lewis DA. **Int J STD AIDS** 1996 May-Jun; 7(3):176-83 (49 ref.)

Characteristics of peripheral arthritis in Behçet's disease. Calgüneri M, et al. **N Z Med J** 1997 Mar 14;110(1039):80-1

Immunogenetic studies of Behçet's disease. Mizuki N, et al. **Rev Rhum Engl Ed** 1996 Jul-Sep;63(7-8):520-7 (28 ref.)

[Advances in immunopathology and treatment of Behçet's disease] Bar-Zohar D, et al. **Harefuah** 1997 Mar 2; 132(5):350-3 (38 ref.) **(Heb)**

[Coping with intractable symptoms in collagen diseases--Behcet's disease] Ono S, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1872-6 (5 ref.) **(Jpn)**

[Research for basic and clinical aspects of Behcet's disease--recent advance and future--] Sakane T, et al. **Nippon Rinsho** 1996 Mar;54(3):870-84 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Behçet's disease] Taniguchi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):158-60 (9 ref.) **(Jpn)**

[Vasculo-Behçet's disease] Yasuda K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):338-40 (16 ref.) **(Jpn)**

BLOOD

Blood serum interleukin-1 receptor antagonist in pars planitis and ocular Behçet disease. Benezra D, et al. **Am J Ophthalmol** 1997 May;123(5):593-8

The demonstration of serum interleukin-8 and superoxide dismutase in Adamantiades-Behçet's disease. Wang LM, et al. **Arch Dermatol Res** 1997 Jul;289(8):444-7

Plasma endothelin-1 levels in Behçet's disease. Uslu T, et al. **Clin Rheumatol** 1997 Jan;16(1):59-61

Peripheral blood neutrophil rheology measured by micropore filtration reflects Behçet's disease activity well. Iijima S, et al. **J Dermatol Sci** 1997 May;15(1):44-50

Impaired haemostatic kinetics and endothelial function in Behçet's disease. Haznedaroglu IC, et al. **J Intern Med** 1996 Oct;240(4):181-7

Systemic levels of the T cell regulatory cytokines IL-10 and IL-12 in Bechçet's disease; soluble TNFR-75 as a biological marker of disease activity. Turan B, et al. **J Rheumatol** 1997 Jan;24(1):128-32

Circulating thrombomodulin as a clue of endothelial damage in Behçet's disease [letter] Haznedaroğlu IC, et al. **Thromb Haemost** 1996 Jun;75(6):974-5

CEREBROSPINAL FLUID

Cerebrospinal fluid interleukin-6 in progressive Neuro-Behçet's syndrome. Hirohata S, et al. **Clin Immunol Immunopathol** 1997 Jan;82(1):12-7

CHEMICALLY INDUCED

Behçet's disease in patients with chronic myelogenous leukemia: possible role of interferon-alpha treatment in the occurrence of Behçet's symptoms. Budak-Alpdoğan T, et al. **Ann Hematol** 1997 Jan;74(1):45-8

[Manifestation of neuro-Behçet disease in cyclosporin A therapy] Meusser S, et al. **Z Rheumatol** 1997 Jan-Feb; 56(1):31-9 (37 ref.) (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Bronchial hyperreactivity and immunoglobulin E in Behçet's disease. Kalpaklioğlu AF, et al. **Allergol Immunopathol (Madr)** 1997 Jul-Aug;25(4):182-8

Budd-Chiari syndrome: a common complication of Behçet's disease. Bayraktar Y, et al. **Am J Gastroenterol** 1997 May; 92(5):858-62

Behçet's-like syndrome associated with idiopathic CD4+ T-lymphocytopenia, opportunistic infections, and a large population of TCR alpha beta+ CD4- CD8- T cells. Venzor J, et al. **Am J Med Sci** 1997 Apr;313(4):236-8

Bilateral loss of vision and macular ischemia related to Behçet disease. Garcher C, et al. **Am J Ophthalmol** 1997 Jul, 124(1):116-7

Postoperative thrombosis of the superior caval vein in a patient with primary asymptomatic Behçet's disease. A case report. Kröger K, et al. **Angiology** 1997 Jul;48(7):649-53

Superior vena cava syndrome as a primary manifestation of Behçet's disease. A case report. Roguin A, et al. **Angiology** 1997 Apr;48(4):365-8

BEHCET'S SYNDROME

A case of Behçet's disease with an abdominal aortic aneurysm and two aneurysms in the common carotid artery. A case report. Tuzuner A, et al. **Angiology** 1996 Dec; 47(12):1173–80

Behçet's disease in patients with chronic myelogenous leukemia: possible role of interferon-alpha treatment in the occurrence of Behçet's symptoms. Budak-Alpdoğan T, et al. **Ann Hematol** 1997 Jan;74(1):45–8

Endomyocardial fibrosis in Behçet's disease. Huong DL, et al. **Ann Rheum Dis** 1997 Mar;56(3):205–8 (15 ref.)

Seven-year follow-up of neurologic involvement in Behçet syndrome. Akman-Demir G, et al. **Arch Neurol** 1996 Jul; 53(7):691–4

The effect of prophylactic penicillin treatment on the course of arthritis episodes in patients with Behçet's disease. A randomized clinical trial. Calgüneri M, et al. **Arthritis Rheum** 1996 Dec;39(12):2062–5

Behçet-type vasculopathy in a patient without the diagnostic features of Behçet's disease. Golden BD, et al. **Arthritis Rheum** 1996 Nov;39(11):1926–30

Behçet's disease: corneal perforation as an ocular manifestation. Wong JS, et al. **Aust N Z J Ophthalmol** 1996 May;24(2):151–2

Coagulation factor V gene mutation increases the risk of venous thrombosis in behçet's disease. Gül A, et al. **Br J Rheumatol** 1996 Nov;35(11):1178–80

IgA nephropathy in a patient with Behçet's syndrome--case report and review of literature. Hemmen T, et al. **Br J Rheumatol** 1997 Jun;36(6):696–9 (31 ref.)

Complete recovery of right intraventricular thrombus and pulmonary arteritis in Behçet's disease. Huong DL, et al. **Br J Rheumatol** 1997 Jan;36(1):130–2

Behçet's disease and pregnancy relationship study. Marsal S, et al. **Br J Rheumatol** 1997 Feb;36(2):234–8

Behçet's syndrome progressing to gastrointestinal perforation in a West African male. Taylor CB, et al. **Br J Rheumatol** 1997 Apr;36(4):498–501

Behçet's disease associated with myelodysplastic syndromes. A case report and a review of the literature. Ohno E, et al. **Cancer** 1997 Jan 15;79(2):262–8 (31 ref.)

Episodic vasculitis of the hands and feet in association with Behçet's disease [letter] Ibbotson SH, et al. **Clin Exp Dermatol** 1996 Nov;21(6):465–6

Lack of association between chronic hepatitis C virus infection and Behçet's disease [letter] Cantini F, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):338–9

Inflammatory pseudotumor of the terminal ileum mimicking malignancy in a patient with Behçet's disease. CT and pathological findings. Pretorius ES, et al. **Clin Imaging** 1996 Jul-Sep;20(3):191–3

Invasive disease due to Epidermophyton floccosum in an immunocompromised patient with Behçet's syndrome. Seddon ME, et al. **Clin Infect Dis** 1997 Jul;25(1):153–4

Bilateral central retinal vein thrombosis in Behçet's disease. el-Asrar AM, et al. **Clin Rheumatol** 1996 Sep;15(5):511–3

Vascular involvement in Behçet's disease. An analysis of twelve cases [letter] de Jesus H, et al. **Clin Rheumatol** 1997 Mar;16(2):220–1

Anticardiolipin (aCL) antibodies in a patient with Behçet's syndrome with vena cava inferior thrombosis. Ebo DG, et al. **Clin Rheumatol** 1997 Jan;16(1):96–8 (15 ref.)

Behçet's disease and cardiac arrhythmia. Mirone L, et al. **Clin Rheumatol** 1997 Jan;16(1):99–100

Coexisting ankylosing spondylitis and Behçet's disease [letter] Tosun M, et al. **Clin Rheumatol** 1996 Nov;15(6):619–20

Behcet's disease complicated with myelodysplastic syndrome: a report of two cases and review of the literature. Yano K, et al. **Clin Rheumatol** 1996 Jan;15(1):91–3 (13 ref.)

Incontinentia pigmenti and Behçet's disease: a case of impaired neutrophil chemotaxis. Endoh M, et al. **Dermatology** 1996;192(3):285–7

Aneurysms of all sinuses of Valsalva and aortic valve prolapse secondary to Behçet's disease [letter] Wakabayashi Y, et al. **Eur Heart J** 1996 Nov;17(11):1766

Fatal haemoptysis due to pulmonary artery aneurysm in Behçet's disease. Gebitekin C, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):233–6

Abdominal aortic aneurysm with lumbar vertebral erosion in Behçet's disease. A case report and review of the literature. Roeyen G, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):242–6 (40 ref.)

Abnormal QT dispersion in Behçet's disease. Göldeli O, et al. **Int J Cardiol** 1997 Aug 29;61(1):55–9

A fatal case of Behçet's disease associated with multiple cardiovascular lesions. Roguin A, et al. **Int J Cardiol** 1997 May 23;59(3):267–73

Behçet's disease: clinical study of Jordanian patients. al-Aboosi MM, et al. **Int J Dermatol** 1996 Sep;35(9):623–5

Behçet's disease and neutropenia [letter] Demiroğlu H, et al. **Int J Dermatol** 1997 Jul;36(7):557–9

Vasculitis in Behçet's disease. Ehrlich GE. **Int Rev Immunol** 1997;14(1):81–8 (33 ref.)

Uveitis in Behçet's disease. Nussenblatt RB. **Int Rev Immunol** 1997;14(1):67–79 (27 ref.)

Headache of unusual aetiology [letter] Mishra BM, et al. **J Assoc Physicians India** 1996 Oct;44(10):752

Neurologic onset of Behçet's disease: a diagnostic enigma in childhood. Koné-Paut I, et al. **J Child Neurol** 1997 Jun; 12(4):237–41

Behçet's disease as a part of the symptom complex of SLE? Lee WS, et al. **J Dermatol** 1996 Mar;23(3):196–9

Intestinal Behçet's disease associated with non-Hodgkin's lymphoma. Yamamoto T, et al. **J Gastroenterol** 1997 Apr; 32(2):241–5

Huge aneurysm of the sinus of Valsalva following infective endocarditis in Behçet's disease. Okada K, et al. **J Heart Valve Dis** 1997 Mar;6(2):179–80

Behçet's syndrome associated with intrauterine growth restriction: a case report and review of the literature. Guzelian G, et al. **J Perinatol** 1997 Jul-Aug;17(4):318–20 (15 ref.)

Silent myocardial ischemia in Behçet's disease [see comments] Güllü IH, et al. **J Rheumatol** 1996 Feb;23(2):323–7. Comment in: J Rheumatol 1996 Feb;23(2):211.

Silent myocardial ischemia in Behçet's disease [comment] O'Duffy JD, et al. **J Rheumatol** 1996 Feb;23(2):211. Comment on: J Rheumatol 1996 Feb;23(2):323–7.

Multiple and reversible osteolytic lesions: an unusual manifestation of behcet's disease. Sciuto M, et al. **J Rheumatol** 1996 Mar;23(3):564–6

Renal involvement in Behçet's disease. Case report and review of the literature. Yver L, et al. **Nephron** 1996; 73(4):689–91

Muscular involvement in Behçet's disease: case report and review of the literature. Worthmann F, et al. **Neuromuscul Disord** 1996 Aug;6(4):247–53 (24 ref.)

Cataract extraction in Behçet's disease. Tabbara KF, et al. **Ocul Immunol Inflamm** 1997 Mar;5(1):27–32

Anticardiolipin antibodies and retinal vascular complications in Behçet's disease. Ozdemir Y, et al. **Ophthalmic Surg Lasers** 1997 Aug;28(8):653–6

Subfoveal choroidal neovascularization in uveitis. Inagaki M, et al. **Ophthalmologica** 1996;210(4):229–33

Risk factor assessment and prognosis of eye involvement in Behcet's disease in Turkey. Demiroğlu H, et al. **Ophthalmology** 1997 Apr;104(4):701–5

Large bilateral pulmonary artery aneurysms in Behçet's disease: rupture of the contralateral lesion after aneurysmorrhaphy. de Montpréville VT, et al. **Respiration** 1996;63(1):49–51

Behçet's syndrome with pulmonary involvement-combined therapy for endobronchial stenosis using neodym-YAG laser, balloon dilation and immunosuppression. Witt C, et al. **Respiration** 1996;63(3):195–8

Concomitant Behcet's disease and spondylarthropathy [letter] Kremer P, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):69–70

Embolization of multiple pulmonary arterial aneurysms in Behçet's disease. Mouas H, et al. **Scand J Rheumatol** 1996; 25(1):58–60

Effects of age, sex, and initial presentation on the clinical course of Behçet's syndrome [letter] Demiroglu H, et al. **South Med J** 1997 May;90(5):567

Assessing the risk of deep vein thrombosis in Behçet's disease [letter] Demiroğlu H, et al. **Thromb Res** 1996 Nov 15; 84(4):297–8

Protein S deficiency and antibodies to protein S in patients with Behçet's disease. Guermazi S, et al. **Thromb Res** 1997 May 1;86(3):197–204

[Neurologic manifestations in Behçet's disease. 16 cases in a cohort of 110 patients] Tohme A, et al. **Ann Med Interne (Paris)** 1997;148(2):118–24 (Eng. Abstr.) **(Fre)**

[Neurologic involvement in Behçet's disease (editorial)] Wechsler B, et al. **Ann Med Interne (Paris)** 1997;148(2):117 **(Fre)**

[Endomyocardial fibrosis of the right heart in Behçet disease] Soulami S, et al. **Arch Mal Coeur Vaiss** 1996 Jul; 89(7):917–21 (Eng. Abstr.) **(Fre)**

[Arterial complications of Behcet's disease. Report of 13 cases] Bensaid Y, et al. **J Mal Vasc** 1997;22(1):24–8 (25 ref.) (Eng. Abstr.) **(Fre)**

[Hemoptysis caused by pulmonary arterial aneurysm, disclosing Behçet disease. Apropos of 2 cases] Kooli C, et al. **Rev Pneumol Clin** 1997;53(1):51–6 (Eng. Abstr.) **(Fre)**

[Aneurysms of the pulmonary artery in Behçet disease. Apropos of 5 new cases] Yassine N, et al. **Rev Pneumol Clin** 1997;53(1):42–8 (24 ref.) (Eng. Abstr.) **(Fre)**

[Pelvic vein thrombosis despite anticoagulant therapy in a 17-year-old patient] Eschrich S, et al. **Internist (Berl)** 1997 Jan;38(1):77–80 **(Ger)**

[Heart involvement in Behcet's disease: a personal caseload en review of the literature] Giordano N, et al. **G Ital Cardiol** 1996 May;26(5):519–25 (35 ref.) (Eng. Abstr.) **(Ita)**

[Magnetic resonance of the encephalon in 17 patients with ocular Behçet's disease] Di Biasi C, et al. **Radiol Med (Torino)** 1997 Apr;93(4):348–51 (Eng. Abstr.) **(Ita)**

[Medullary infarction due to vertebral dissecting aneurysm in a patient with Behçet's disease] Itoh K, et al. **Rinsho Shinkeigaku** 1996 Aug;36(8):986–9 (Eng. Abstr.) **(Jpn)**

[Inflammatory aortic aneurysm (non-mycotic)] Sasaki S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):318–21 (17 ref.) **(Jpn)**

[A case of Behçet's disease associated with aortic regurgitation and nephrotic syndrome] Akiyama Y, et al. **Ryumachi** 1995 Dec;35(6):910–4 (Eng. Abstr.) **(Jpn)**

[Subclinical pro-thrombotic state in a relapse of Behcet's disease--case report] Undas A, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):258–62 (Eng. Abstr.) **(Pol)**

[Fatal involvement of the lungs in Behçet's disease] Bagirova VV, et al. **Ter Arkh** 1996;68(12):39–40 **(Rus)**

CONGENITAL

Life-threatening transient neonatal Behçet's disease. Stark AC, et al. **Br J Rheumatol** 1997 Jun;36(6):700–2

DIAGNOSIS

Budd-Chiari syndrome: a common complication of Behçet's disease. Bayraktar Y, et al. **Am J Gastroenterol** 1997 May; 92(5):858–62

Neuro-Behçet disease presenting with internuclear ophthalmoplegia. Masai H, et al. **Am J Ophthalmol** 1996 Dec;122(6):897–8

Life-threatening transient neonatal Behçet's disease. Stark AC, et al. **Br J Rheumatol** 1997 Jun;36(6):700–2

Evaluation of peripheral vascular system disorders in vascular symptom--free Behçet's disease. Kuzu A, et al. **Cardiovasc Surg** 1996 Jun;4(3):381–3

Coexisting ankylosing spondylitis and Behçet's disease [letter] Tosun M, et al. **Clin Rheumatol** 1996 Nov;15(6):619–20

A Behçet-like disease presenting as ulcerative stomatitis and scarring pustular lesions of the face. Shelley WB, et al. **Cutis** 1997 Feb;59(2):74–6

Budd-Chiari syndrome as a presenting syndrome for Behçet's disease [letter] Oge N, et al. **Int J Dermatol** 1997 Jul; 36(7):556–7

A mechanic who coughed up blood for 15 months. Buchanan JA, et al. **Lancet** 1997 Jul 5;350(9070):28

A controlled study of reliability and validity of MRI findings in neuro-Behçet's disease. Coban O, et al. **Neuroradiology** 1996 May;38(4):312–6

Long-term MR follow-up of cerebral lesions in neuro-Behçet's disease. Gerber S, et al. **Neuroradiology** 1996 Nov;38(8):761–8

Spinal cord MRI in neuro-Behçet's disease. Yoshioka H, et al. **Neuroradiology** 1996 Oct;38(7):661–2

A clinical case of neuro-Behçet syndrome without mucocutaneo-ocular symptoms: relationship with brain stem encephalitis. Kawanishi Y, et al. **Psychiatry Clin Neurosci** 1995 Dec;49(5-6):263–6

Behçet's disease and chronic neutropenia. Demiroğlu H, et al. **Scand J Rheumatol** 1997;26(2):130–2

[Neuro-Behçet disease with solitary cerebral pseudotumor disclosed by headaches (letter)] Dupin M, et al. **Ann Med Interne (Paris)** 1996;147(7):524–6 **(Fre)**

[A frequently unrecognized cause of vascular lesions: Behçet's disease] Defraigne JO, et al. **Rev Med Liege** 1996 Oct;51(10):639–46 (39 ref.) **(Fre)**

[Behçet's disease with neurologic involvement. A case report] Böhner C, et al. **Rontgenpraxis** 1997 May;50(5):115–8 **(Ger)**

[Behçet's disease of the uterine cervix--a case report] Bancher-Todesca D, et al. **Wien Klin Wochenschr** 1996; 108(21):689–91 (Eng. Abstr.) **(Ger)**

[Thrombosis of the inferior vena cava in Behçet disease] Kirchner J, et al. **Wien Klin Wochenschr** 1997 Jan 17; 109(1):25–8 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Treatment of Beçhet disease with pentoxifylline [letter; comment] Arici M, et al. **Ann Intern Med** 1997 Mar 15; 126(6):493; discussion 494. Comment on: Ann Intern Med 1996 May 15;124(10):891–3.

Treatment of Beçhet disease with pentoxifylline [letter; comment] Hamuryudan V, et al. **Ann Intern Med** 1997 Mar 15;126(6):493. Comment on: Ann Intern Med 1996 May 15;124(10):891–3.

Treatment of Behçet disease with pentoxifylline [letter; comment] Wolchok JD. **Ann Intern Med** 1997 Mar 15; 126(6):493; discussion 494. Comment on: Ann Intern Med 1996 May 15;124(10):891–3.

Penicillin in the treatment of Behçet's disease: comment on the article by Calgüneri et al [letter] Demiroğlu H, et al. **Arthritis Rheum** 1997 Sep;40(9):1728–30

Azathioprine in Behcet's syndrome: effects on long-term prognosis. Hamuryudan V, et al. **Arthritis Rheum** 1997 Apr; 40(4):769–74

Treatment of colitis in Behçet's disease with thalidomide. Postema PT, et al. **Eur J Gastroenterol Hepatol** 1996 Sep; 8(9):929–31

Therapy of Behçet's disease. Kötter I, et al. **Ger J Ophthalmol** 1996 Mar;5(2):92–7 (37 ref.)

Successful treatment of Behçet's syndrome in an African female patient with thalidomide. Lewis DA, et al. **Int J STD AIDS** 1996 Nov-Dec;7(7):518–20

Efficacy of cyclosporine on mucocutaneous manifestations of Behçet's disease. Avci O, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):796–7

Effects of corticosteroid and chlorambucil on multiple pulmonary artery aneurysms in Behcet's syndrome. A case report. Park JY, et al. **J Korean Med Sci** 1995 Dec; 10(6):470–3

Hemolytic uremic syndrome/thrombotic thrombocytopenic purpura in a patient with Behçet's disease treated with cyclosporin [letter] Docci D, et al. **Nephron** 1997; 75(3):356–7

Colchicine in Behçet's disease with major vessel thrombosis [letter] Celik G, et al. **Rheumatol Int** 1996;16(1):43–4

EPIDEMIOLOGY

A descriptive study on Behçet's disease. Atmaca LS, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):403–6

Behçet disease in children: a nationwide retrospective survey in Japan. Fujikawa S, et al. **Acta Paediatr Jpn** 1997 Apr; 39(2):285–9

Epidemiology of Behçet's syndrome in Turkey. Tüzün Y, et al. **Int J Dermatol** 1996 Sep;35(9):618–20 (15 ref.)

Arthropathy in Behçet's disease. Kim HA, et al. **Scand J Rheumatol** 1997;26(2):125–9

ETHNOLOGY

Juvenile Behçet's disease in Arab children. Bahabri SA, et al. **Clin Exp Rheumatol** 1996 May–Jun;14(3):331–5

ETIOLOGY

Adamantiades–Behçet's disease coexisting with acute myeloblastic leukaemia [letter] Kaloterakis A, et al. **Br J Dermatol** 1997 Aug;137(2):317–8

Immunopathological aspects of Behçet's disease [editorial] Emmi L, et al. **Clin Exp Rheumatol** 1995 Nov–Dec; 13(6):687–91

The role of heat shock protein, microbial and autoimmune agents in the aetiology of Behçet's disease. Lehner T. **Int Rev Immunol** 1997;14(1):21–32 (59 ref.)

New perspective on Behçet's disease. Sakane T. **Int Rev Immunol** 1997;14(1):89–96 (10 ref.)

Hyperreactivity of neutrophils and abnormal T cell homeostasis: a new insight for pathogenesis of Behçet's disease. Yamashita N. **Int Rev Immunol** 1997;14(1):11–9 (33 ref.)

Cytokines in Behçet's disease. Sayinalp N, et al. **J Rheumatol** 1996 Feb;23(2):321–2

GENETICS

Uveitis in psoriasis associated with HLA–B51; a link to Behçet's disease? [letter] Morita E, et al. **Br J Dermatol** 1997 Jun;136(6):979–80

HLA–B51 negative monozygotic twins discordant for Behçet's disease [letter] Gül A, et al. **Br J Rheumatol** 1997 Aug;36(8):922–3

Role of gammadelta T lymphocytes in the development of Behçet's disease. Yamashita N, et al. **Clin Exp Immunol** 1997 Feb;107(2):241–7

Adamantiadis–Behçet's disease in sisters. Vaiopoulos G, et al. **Clin Rheumatol** 1996 Jul;15(4):382–4

LMP7 polymorphism in Japanese patients with sarcoidosis and Behçet's disease. Ishihara M, et al. **Hum Immunol** 1996 Dec;51(2):103–5

HLA–C genotyping of patient with Behçet's disease in the Japanese population. Mizuki N, et al. **Hum Immunol** 1996 Sep 15;50(1):47–53

Pathogenic gene responsible for the predisposition of Behçet's disease. Mizuki N, et al. **Int Rev Immunol** 1997; 14(1):33–48 (39 ref.)

Familial occurrence of Behçet's disease. Nishiura K, et al. **Jpn J Ophthalmol** 1996;40(2):255–9

Triplet repeat polymorphism in the transmembrane region of the MICA gene: a strong association of six GCT repetitions with Behçet disease. Mizuki N, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1298–303

Identification of a novel HLA–B allele (B*4202) in a Saudi Arabian family with Behçet's disease. Ando H, et al. **Tissue Antigens** 1997 May;49(5):526–8

Allelic variations in the TAP2 and LMP2 genes in Behçet's disease. Ishihara M, et al. **Tissue Antigens** 1996 Mar; 47(3):249–52

A strong association between HLA–B*5101 and Behçet's disease in Greek patients. Mizuki N, et al. **Tissue Antigens** 1997 Jul;50(1):57–60

[Juvenile Adamantiades–Behçet disease in decreased stimulation with anti–CD3 monoclonal antibody] Krüger K, et al. **Hautarzt** 1997 Apr;48(4):258–61 (Eng. Abstr.) **(Ger)**

[Serologic and molecular HLA typing in patients from Andalucia with Behçet's disease. Genetic and clinical correlations (see comments)] Castillo Palma MJ, et al. **Med Clin (Barc)** 1996 Feb 3;106(4):121–5 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Mar 15;108(10):397–8. **(Spa)**

HISTORY

History and development of Behçet's disease. Dilsen N. **Rev Rhum Engl Ed** 1996 Jul–Sep;63(7–8):512–9

IMMUNOLOGY

Behçet's–like syndrome associated with idiopathic CD4+ T–lymphocytopenia, opportunistic infections, and a large population of TCR alpha beta+ CD4– CD8– T cells. Venzor J, et al. **Am J Med Sci** 1997 Apr;313(4):236–8

Behçet disease: advantageous against development of neoplasia? [letter] Celik I, et al. **Ann Rheum Dis** 1996 Sep; 55(9):648

In vivo mechanisms for the inhibition of T lymphocyte activation by long–term therapy with tacrolimus (FK–506): experience in patients with Behçet's disease. Suzuki N, et al. **Arthritis Rheum** 1997 Jun;40(6):1157–67

HLA–B51 negative monozygotic twins discordant for Behçet's disease [letter] Gül A, et al. **Br J Rheumatol** 1997 Aug;36(8):922–3

Peripheral blood T cell expansions in patients with Behcet's disease. Esin S, et al. **Clin Exp Immunol** 1997 Mar; 107(3):520–7

Characterization of T cells specific for an epitope of human 60–kD heat shock protein (hsp) in patients with Behcet's disease (BD) in Japan. Kaneko S, et al. **Clin Exp Immunol** 1997 May;108(2):204–12

Anti–bacterial antibodies in Behçet's disease [letter] Iannone F, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):451–2

Hyperreactivity of neutrophils and abnormal T cell homeostasis: a new insight for pathogenesis of Behçet's disease. Yamashita N. **Int Rev Immunol** 1997;14(1):11–9 (33 ref.)

The place of Behçet's syndrome among the autoimmune diseases. Yazici H. **Int Rev Immunol** 1997;14(1):1–10 (41 ref.)

Changes of neutrophil migration without modification of in vitro metabolism and adhesion in Behçet's disease. Carletto A, et al. **J Rheumatol** 1997 Jul;24(7):1332–6

Protein S deficiency and antibodies to protein S in patients with Behçet's disease. Guermazi S, et al. **Thromb Res** 1997 May 1;86(3):197–204

[Analysis of the profile of CD4+ cells in Behçet's disease] Sugi N, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr; 101(4):335–40 (Eng. Abstr.) **(Jpn)**

[Behçet's disease and streptococcal antigens] Yoshikawa K, et al. **Nippon Ganka Gakkai Zasshi** 1996 Mar;100(3):173–80 (47 ref.) (Eng. Abstr.) **(Jpn)**

[Serological and molecular HLA typing in Andalusian patients with Behçet's disease. Genetic–clinical correlations (letter; comment)] Román JA, et al. **Med Clin (Barc)** 1997 Mar 15;108(10):397–8. Comment on: Med Clin (Barc) 1996 Feb 3;106(4):121–5. **(Spa)**

PATHOLOGY

Unusual polyp–like structures in lobular panniculitis of a patient with Behçet's disease. Ohtake N, et al. **Am J Dermatopathol** 1997 Apr;19(2):185–8

Role of gammadelta T lymphocytes in the development of Behçet's disease. Yamashita N, et al. **Clin Exp Immunol** 1997 Feb;107(2):241–7

Neuro–Behçet's disease. Hadfield MG, et al. **Clin Neuropathol** 1997 Mar–Apr;16(2):55–60 (42 ref.)

Neuro–Behçet's disease. Hadfield MG, et al. **Clin Neuropathol** 1996 Sep–Oct;15(5):249–55

Juvenile Behçet's disease among 1784 Turkish Behçet's patients. Sarica R, et al. **Int J Dermatol** 1996 Feb; 35(2):109–11

Cutaneous vasculitis in Behçet's disease: a clinical and histopathologic study of 20 patients. Chen KR, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):689–96

Mucocutaneous criteria for the diagnosis of Behçet's disease [letter] Dega H, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):789–90

Characteristics of T cell lines established from skin lesions of Behçet's disease. Mochizuki M, et al. **J Dermatol Sci** 1997 May;15(1):9–13

Neuro–Behçet's disease in Japan [letter] Ikeda K, et al. **Neurology** 1996 Aug;47(2):614–5

MRI in neuro–Behçet's disease. Tali ET, et al. **Neuroradiology** 1997 Jan;39(1):2–6

Immunopathologic study of the conjunctiva in patients with behçet disease. Tugal–Tutkun I, et al. **Ophthalmology** 1995 Nov;102(11):1660–8

Coronary anomaly in Behçet's syndrome. Siepmann M, et al. **Rheumatol Int** 1997;17(1):39–42

[Magnetic resonance imaging of brainstem lesions in a case of neuro–Behçet disease] Nomura E, et al. **No To Shinkei** 1997 Mar;49(3):273–6 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Enhanced interaction of patients' lymphocytes with human dermal microvascular endothelial cell cultures in active Adamantiades–Behçet disease. Treudler R, et al. **Arch Dermatol** 1996 Nov;132(11):1323–9

The effect of prophylactic penicillin treatment on the course of arthritis episodes in patients with Behçet's disease. A randomized clinical trial. Calgüneri M, et al. **Arthritis Rheum** 1996 Dec;39(12):2062–5

Ophthalmic and central retinal artery flow velocities in patients with Behçet's disease. Seçkin D, et al. **Eur J Ophthalmol** 1996 Apr–Jun;6(2):215–6

Abnormal QT dispersion in Behçet's disease. Göldeli O, et al. **Int J Cardiol** 1997 Aug 29;61(1):55–9

Behçet's disease: clinical study of Jordanian patients. al–Aboosi MM, et al. **Int J Dermatol** 1996 Sep;35(9):623–5

Peripheral blood neutrophil rheology measured by micropore filtration reflects Behçet's disease activity well. Iijima S, et al. **J Dermatol Sci** 1997 May;15(1):44–50

Impaired haemostatic kinetics and endothelial function in Behçet's disease. Haznedaroglu IC, et al. **J Intern Med** 1996 Oct;240(4):181–7

Visual prognosticators in Behçet uveitis [letter; comment] Schaumberg DA, et al. **Ophthalmology** 1995 Dec; 102(12):1739. Comment on: Ophthalmology 1995 Feb;102(2):317–21.

Behçet's disease and the neuropathic bladder: urodynamic features: case report and a literature review. Porru D, et al. **Spinal Cord** 1996 May;34(5):305–7 (14 ref.)

RADIOGRAPHY

Multiple and reversible osteolytic lesions: an unusual manifestation of behcet's disease. Sciuto M, et al. **J Rheumatol** 1996 Mar;23(3):564–6

RADIONUCLIDE IMAGING

Brain perfusion SPECT in neuro–Behçet's disease: discordance between Tc–99m–HMPAO and Tc–99m–ECD. Shuke N, et al. **Ann Nucl Med** 1996 Aug; 10(3):353–6

[Evaluation of neuro–Behçet disease with 99mTc–HMPAO brain SPECT: comparison with MR imaging] Kikuchi Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul; 57(8):515–9 (Eng. Abstr.) **(Jpn)**

REHABILITATION

Quality of life in Behçet's syndrome: 335 patients surveyed [letter] Blackford S, et al. **Br J Dermatol** 1997 Feb; 136(2):293

SURGERY

Surgical management of Behçet's aortitis: a report of eight patients. Okada K, et al. **Ann Thorac Surg** 1997 Jul; 64(1):116–9

Intracranial arterial aneurysm complicating Behçet's disease. Ildan F, et al. **Neurosurg Rev** 1996;19(1):53–6

The surgical treatment of vascular and gastrointestinal implications in Behçet disease. Report of four cases. Testini M, et al. **Panminerva Med** 1996 Sep;38(3):185–9

Management of aneurysms in Behçet's syndrome: an analysis of 24 patients. Tüzün H, et al. **Surgery** 1997 Feb; 121(2):150–6

THERAPY

Thrombolytic therapy in pulmonary embolism of Behçet's disease. Sanchez–Burson J, et al. **Acta Haematol** 1996; 96(3):181–3

Local intralesional therapy with rhGM–CSF for a large genital ulcer in Behçet's disease [letter] Alli N, et al. **Br J Dermatol** 1997 Apr;136(4):639–40

Erosive arthritis and posterior uveitis in Behçet's disease: treatment with interferon alpha and interferon gamma. Kötter I, et al. **Clin Exp Rheumatol** 1996 May–Jun; 14(3):313–5

Interferon alfa–2a in the treatment of Behçet's disease. Azizlerli G, et al. **Dermatology** 1996;192(3):239–41

Immunotherapy for Behçet's disease. Mochizuki M. **Int Rev Immunol** 1997;14(1):49–66 (63 ref.)

Behçet's syndrome with pulmonary involvement–combined therapy for endobronchial stenosis using neodym–YAG laser, balloon dilation and immunosuppression. Witt C, et al. **Respiration** 1996;63(3):195–8

VIROLOGY

Polymerase chain reaction reveals herpes simplex virus DNA in saliva of patients with Behçet's disease. Lee S, et al. **Arch Dermatol Res** 1996 Apr;288(4):179–83

Human cytomegalovirus as a potential etiologic agent in recurrent aphthous ulcers and Behçet's disease. Sun A, et al. **J Oral Pathol Med** 1996 May;25(5):212–8

BEJEL see **TREPONEMAL INFECTIONS**

BELCHING see **ERUCTATION**

BELGIAN HARE see **RABBITS**

BELLADONNA

CHEMISTRY

A chemical study on the steroidal glycosides from Atropa belladonna L. seeds. Shvets SA, et al. **Adv Exp Med Biol** 1996;404:475–83

METABOLISM

[How is atropine made in belladonna? New findings on the regulation of plant secondary metabolites] Dräger B. **Pharm Unserer Zeit** 1996 Sep;25(5):242–9 (35 ref.) **(Ger)**

BELLADONNA ALKALOIDS

POISONING

[Atropa belladonna poisoning suggesting severe post–traumatic brain damage] Perlik–Gattner I. **Przegl Lek** 1997;54(6):464–5 (Eng. Abstr.) **(Pol)**

BELL'S PALSY see **FACIAL PARALYSIS**

BEMEGRIDE

PHARMACOLOGY

Clinico–ECoG correlate of megimide–induced epileptic seizures in epilepsy–prone EI and its mother strain nonepileptic ddY mice. Nakano H, et al. **Physiol Behav** 1996 Sep;60(3):809–16

BENACTYZINE

THERAPEUTIC USE

The influence of pharmacological pretreatment on efficacy of HI-6 oxime in combination with benactyzine in soman poisoning in rats. Kassa J, et al. **Hum Exp Toxicol** 1996 May;15(5):383-8

BENCE JONES PROTEIN

CHEMISTRY

A new method for modeling large-scale rearrangements of protein domains. Maiorov V, et al. **Proteins** 1997 Mar; 27(3):410-24

METABOLISM

Catalytic cleavage of vasopressin by human Bence Jones proteins at the arginylglycinamide bond. Matsuura K, et al. **Biol Chem** 1996 Sep;377(9):587-9

Differential glycosylation of Bence Jones protein and kidney impairment in patients with plasma cell dyscrasia. Kagimoto T, et al. **J Lab Clin Med** 1997 Feb;129(2):217-23

URINE

A comparison of three procedures for the detection of Bence-Jones proteinuria. Wong WK, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):371-4

Hemoglobin interference with urinary Bence Jones protein analysis on electrophoresis [published erratum appears in Ann Clin Lab Sci 1996 Mar-Apr;26(2):194] Hobbs GA, et al. **Ann Clin Lab Sci** 1996 Jan-Feb;26(1):71-5

Monoclonal B-cells and Bence Jones proteinuria in multiple sclerosis [letter; comment] Pascali E. **Arch Pathol Lab Med** 1997 Jan;121(1):9-10. Comment on: Arch Pathol Lab Med 1996 Mar;120(3):275-8.

Immunoglobulin class switch from IgA1 to IgG2 and simultaneous association with Bence Jones proteinuria in the escape phase in a myeloma patient treated with interferon alpha. Kozuru M, et al. **Br J Haematol** 1997 Jul;98(1):114-8

An improved simple method of detection of Bence Jones proteinuria [letter] Chaudhary SK, et al. **J Assoc Physicians India** 1996 Nov;44(11):842, 845

Detection of Bence-Jones proteinuria by a modified method [letter] Ghorbani G, et al. **Nephron** 1996;74(2):454

BENDER-GESTALT TEST

STATISTICS & NUMERICAL DATA

The Bender Gestalt test for 5- to 15-year old Brazilian children: norms and validity. Brito GN, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1513-8

BENDROFLUAZIDE see **BENDROFLUMETHIAZIDE**

BENDROFLUMETHIAZIDE

ADVERSE EFFECTS

Occupational contact dermatitis from propranolol, hydralazine and bendroflumethiazide. Pereira F, et al. **Contact Dermatitis** 1996 Nov;35(5):303-4

PHARMACOLOGY

Inhibition of human thiopurine methyltransferase by furosemide, bendroflumethiazide and trichlormethiazide. Lysaa RA, et al. **Eur J Clin Pharmacol** 1996;49(5):393-6

Influence of renal nerves and sodium balance on the acute antidiuretic effect of bendroflumethiazide in rats with diabetes insipidus. Spannow J, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1155-62

Thiazide diuretics normalize urinary calcium in spontaneously hypertensive male rats. Fanestil DD, et al. **Kidney Int** 1997 Apr;51(4):1018-21

BENDS see **DECOMPRESSION SICKNESS**

BENECKEA see **VIBRIO**

BENHYDRAMIN see **DIPHENHYDRAMINE**

BENIGN INTRACRANIAL HYPERTENSION see **PSEUDOTUMOR CEREBRI**

BENIGN MONOCLONAL GAMMOPATHIES see **MONOCLONAL GAMMOPATHIES, BENIGN**

BENOMYL

ANALYSIS

Monitoring of exposure to benomyl in nursery workers. Hoekstra EJ, et al. **J Occup Environ Med** 1996 Aug; 38(8):775-81

CHEMISTRY

Spontaneous N,N'-dibutylurea (DBU) formation in Benlate DF formulation under elevated temperatures. Tang CS, et al. **Arch Environ Contam Toxicol** 1996 Mar;30(3):403-6

PHARMACOLOGY

Effect of plant extracts and systemic fungicide on the pineapple fruit-rotting fungus, Ceratocystis paradoxa. Damayanti M, et al. **Cytobios** 1996;86(346):155-65

Dosage suppressors of a benomyl-dependent tubulin mutant: evidence for a link between microtubule stability and cellular metabolism. Machin NA, et al. **Genetics** 1996 Dec; 144(4):1363-73

TOXICITY

Effect of benomyl and carbendazim on steroid and molecular mechanisms in uterine decidual growth in rats. Spencer F, et al. **J Appl Toxicol** 1996 May-Jun;16(3):211-4

The role of the benomyl metabolite carbendazim in benomyl-induced testicular toxicity. Lim J, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):401-10

Protective effects of antioxidants against benomyl-induced lipid peroxidation and glutathione depletion in rats. Banks D, et al. **Toxicology** 1997 Jan 15;116(1-3):177-81

BENPERIDOL

ADVERSE EFFECTS

Imaging of dopamine receptors with [123I]iodobenzamide single-photon emission-computed tomography in neuroleptic malignant syndrome. Jauss M, et al. **Mov Disord** 1996 Nov;11(6):726-8

ANALOGS & DERIVATIVES

In vivo kinetics of [18F](N-methyl)benperidol: a novel PET tracer for assessment of dopaminergic D2-like receptor binding. Moerlein SM, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):833-45

Radiation dosimetry of [18F] (N-methyl)benperidol as determined by whole-body PET imaging of primates. Moerlein SM, et al. **Nucl Med Biol** 1997 May;24(4):311-8

ANALYSIS

Voltammetric determination of droperidol and benperidol. Biryol I, et al. **J Pharm Biomed Anal** 1997 Jul; 15(11):1695-701

BENSERAZIDE

ADMINISTRATION & DOSAGE

Sustained-release Madopar HBS compared with standard Madopar in the long-term treatment of de novo parkinsonian patients. Dupont E, et al. **Acta Neurol Scand** 1996 Jan;93(1):14-20

Clinical efficacy and tolerability of a new levodopa/benserazide dual-release formulation in parkinsonian patients. L-Dopa Dual-Release Study Group. Ghika J, et al. **Clin Neuropharmacol** 1997 Apr;20(2):130-9

[L-dopa/benserazide during pregnancy in a patient with juvenile parkinsonism] Arai H, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):264-5 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

The effect of COMT inhibition by tolcapone on tolerability and pharmacokinetics of different levodopa/benserazide formulations. Jorga K, et al. **Eur Neurol** 1997;38(1):59-67

PHARMACOLOGY

Tyrosine and tryptophan derivatives in pig lumbar cerebrospinal fluid. Effects of subchronic administration of dopa associated with benserazide. Banting S, et al. **Adv Exp Med Biol** 1996;398:119-21

Pharmacodynamics of benserazide assessed by its effects on endogenous and exogenous levodopa pharmacokinetics. Dingemanse J, et al. **Br J Clin Pharmacol** 1997 Jul; 44(1):41-8

Effect of L-dopa alone and with benserazide on the spontaneous activity of striatal neurones in normal and 6-hydroxydopamine-lesioned rats. Chang WY, et al. **Br J Pharmacol** 1997 May;121(2):331-7

THERAPEUTIC USE

An add-on study of selegiline to Madopar in the treatment of parkinsonian patients with dose-related fluctuations: comparison between Jumexal and Parkryl. Shan DE, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Oct; 58(4):264-8

Comparison of subcutaneous apomorphine versus dispersible madopar latency and effect duration in Parkinson's disease patients: a double-blind single-dose study. Merello M, et al. **Clin Neuropharmacol** 1997 Apr;20(2):165-7

BENSOKAIN see **BENZOCAINE**

BENSULFAMIDE see **MAFENIDE**

BENTONITE

CHEMISTRY

Hydrogen peroxide sensor based on coimmobilized methylene green and horseradish peroxidase in the same montmorillonite-modified bovine serum albumin-glutaraldehyde matrix on a glassy carbon electrode surface. Lei C, et al. **Anal Chem** 1996 Oct 1; 68(19):3344-9

Oligomerization of uridine phosphorimidazolides on montmorillonite: a model for the prebiotic synthesis of RNA on minerals. Ding PZ, et al. **Orig Life Evol Biosph** 1996 Apr;26(2):151-71

PHARMACOLOGY

Failure of dietary bentonite clay, Silent Herder mineral supplement, or parenteral Banamine to alleviate locoweed toxicosis in rats. Dugarte-Stavanja M, et al. **J Anim Sci** 1997 Jul;75(7):1867-75

POISONING

Bentonite toxicosis in a cat from cat litter? [letter; comment] McDonough S. **Vet Hum Toxicol** 1997 Jun;39(3):181-2. Comment on: Vet Hum Toxicol 1996 Oct;38(5):365-6.

THERAPEUTIC USE

From the Food and Drug Administration. Nightingale SL. **JAMA** 1996 Oct 9;276(14):1128

TOXICITY

Suspected bentonite toxicosis in a cat from ingestion of clay cat litter [see comments] Hornfeldt CS, et al. **Vet Hum Toxicol** 1996 Oct;38(5):365-6. Comment in: Vet Hum Toxicol 1997 Jun;39(3):181-2.

BENZALACETOPHENONE see **CHALCONE**

BENZALDEHYDES

ADVERSE EFFECTS

[Migraine induced by vanillin (letter)] Saint Denis M, et al. **Presse Med** 1996 Dec 21;25(40):2043 **(Fre)**

CHEMISTRY

The potential of iron chelators of the pyridoxal isonicotinoyl hydrazone class as effective antiproliferative agents II: the mechanism of action of ligands derived from salicylaldehyde benzoyl hydrazone and 2-hydroxy-1-naphthylaldehyde benzoyl hydrazone. Richardson DR, et al. **Blood** 1997 Apr 15;89(8):3025-38

Rat hepatic microsomal aldehyde dehydrogenase. Identification of 3- and 4-substituted aromatic aldehydes as substrates of the enzyme. Martini R, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):268-76

Characterization of a solid state reaction product from a lyophilized formulation of a cyclic heptapeptide. A novel example of an excipient-induced oxidation. Dubost DC, et al. **Pharm Res** 1996 Dec;13(12):1811-4

ISOLATION & PURIFICATION

Phytogrowth-inhibitory compounds from Malmea depressa. Jimenez Arellanes A, et al. **J Nat Prod** 1996 Feb; 59(2):202-4

METABOLISM

Stimulation of aryl metabolite production in the basidiomycete Bjerkandera sp. strain BOS55 with biosynthetic precursors and lignin degradation products. Mester T, et al. **Appl Environ Microbiol** 1997 May; 63(5):1987-94

Metabolites of chlorinated syringaldehydes in fish bile as biomarkers of exposure to bleached eucalypt pulp effluents. Brumley CM, et al. **Ecotoxicol Environ Saf** 1996 Apr; 33(3):253-60

Molecular characterization of genes of Pseudomonas sp. strain HR199 involved in bioconversion of vanillin to protocatechuate. Priefert H, et al. **J Bacteriol** 1997 Apr; 179(8):2595-607

PHARMACOLOGY

Inhibition of mouse and human class 1 aldehyde dehydrogenase by 4-(N,N-dialkylamino)benzaldehyde compounds. Russo JE. **Adv Exp Med Biol** 1997;414:217-24

Chlorogenic acid and hydroxynitrobenzaldehyde: new inhibitors of hepatic glucose 6-phosphatase. Arion WJ, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):315-22

Protonophoric activity of eutypine, a toxin from Eutypa lata, in plant mitochondria. Deswarte C, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):200-5

Quantitative structure activity relationship for the effect of benzoic acids, cinnamic acids and benzaldehydes on Listeria monocytogenes. Ramos-Nino ME, et al. **J Appl Bacteriol** 1996 Mar;80(3):303-10

Convergence of Schiff base costimulatory signaling and TCR signaling at the level of mitogen-activated protein kinase ERK2. Chen H, et al. **J Immunol** 1997 Sep 1;159(5):2274-81

Phytogrowth-inhibitory compounds from Malmea depressa.

Jimenez Arellanes A, et al. **J Nat Prod** 1996 Feb; 59(2):202–4

THERAPEUTIC USE

Covalent chemical events in immune induction: fundamental and therapeutic aspects [see comments] Rhodes J. **Immunol Today** 1996 Sep;17(9):436–41 (44 ref.). Comment in: Immunol Today 1997 Jul;18(7):362.

TOXICITY

DNA single and double strand breaks induced by aliphatic and aromatic aldehydes in combination with copper (II). Becker TW, et al. **Free Radic Res** 1996 May;24(5):325–32

Inactivation of glutathione peroxidase by benzaldehyde. Tabatabaie T, et al. **Toxicol Appl Pharmacol** 1996 Dec; 141(2):389–93

[The hygienic regulation of 3–phenoxybenzaldehyde in the atmosphere] Iskandarova ShT. **Gig Sanit** 1996 May–Jun; (3):6–8 (Eng. Abstr.) **(Rus)**

BENZALKONIUM see **BENZALKONIUM COMPOUNDS**

BENZALKONIUM CHLORIDE see **BENZALKONIUM COMPOUNDS**

BENZALKONIUM COMPOUNDS

Microbial contamination of antiseptics and disinfectants. Oie S, et al. **Am J Infect Control** 1996 Oct;24(5):389–95

ADMINISTRATION & DOSAGE

Effects of topical nasal steroids on human respiratory mucosa and human granulocytes in vitro. Steinsvåg SK, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):868–75

ADVERSE EFFECTS

Benzalkonium chloride [letter; comment] Bendix S. **Contact Dermatitis** 1996 Oct;35(4):264–5. Comment on: Contact Dermatitis 1995 Oct;33(4):217–25.

Airborne irritant contact dermatitis from benzalkonium chloride. Krogsrud NE, et al. **Contact Dermatitis** 1997 Feb; 36(2):112

Allergic contact dermatitis from benzalkonium chloride used as a denaturant of ethanol. Ortiz–Frutos FJ, et al. **Contact Dermatitis** 1996 Nov;35(5):302

Occupational allergic contact dermatitis from disinfectant wipes used in dentistry. Placucci F, et al. **Contact Dermatitis** 1996 Nov;35(5):306

Allergic contact dermatitis from benzalkonium chloride in plaster of Paris. Stanford D, et al. **Contact Dermatitis** 1996 Dec;35(6):371–2

[Allergy and preservatives. Apropos of 3 cases of allergy to benzalkonium chloride] Chiambaretta F, et al. **J Fr Ophtalmol** 1997;20(1):8–16 (41 ref.) (Eng. Abstr.) **(Fre)**

ANALYSIS

Analysis of benzalkonium chloride in the effluent from European hospitals by solid–phase extraction and high–performance liquid chromatography with post–column ion–pairing and fluorescence detection. Kümmerer K, et al. **J Chromatogr A** 1997 Jul 11; 774(1–2):281–6

Validated capillary electrophoretic method for the quantitative analysis of histamine acid phosphate and/or benzalkonium chloride. Altria KD, et al. **J Chromatogr B Biomed Appl** 1996 Nov 8;686(1):111–7

CHEMISTRY

Some physico–chemical properties micelle–-benzalkonium chloride (BAC) adduct on interface in selected eye drops. Zawadzka E, et al. **Acta Pol Pharm** 1995 Jul–Aug; 52(4):275–9

PHARMACOLOGY

Effects of topical nasal steroids on human respiratory mucosa and human granulocytes in vitro. Steinsvåg SK, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):868–75

Biochemical characterization of a Pseudomonas fluorescens strain isolated from a benzalkonium chloride solution. Nagai K, et al. **Biol Pharm Bull** 1996 Jun;19(6):873–5

Multiple mechanisms contribute to myenteric plexus ablation induced by benzalkonium chloride in the guinea–pig ileum. Parr EJ, et al. **Cell Tissue Res** 1997 Aug;289(2):253–64

Effects of benzalkonium salts on eukaryotic and microbial G–protein–mediated processes and surface membranes. Patarca R, et al. **Crit Rev Oncog** 1995;6(3–6):327–56 (412 ref.)

Relation between cholecystokinin and antral innervation in the control of gastric emptying in the rat. Higham A, et al. **Gut** 1997 Jul;41(1):24–32

Flow cytometry for rapid assessment of viability after exposure to a quaternary ammonium compound. Langsrud S, et al. **J Appl Bacteriol** 1996 Oct;81(4):411–8

Benzalkonium chloride: a potential disinfecting irrigation solution. Gainor BJ, et al. **J Orthop Trauma** 1997 Feb–Mar; 11(2):121–5

Effect of benzalkonium chloride/EDTA on the ocular bioavailability of ketorolac tromethamine following ocular instillation to normal and de–epithelialized corneas of rabbits. Madhu C, et al. **J Pharm Sci** 1996 Apr;85(4):415–8

Antiseptic myramistin possesses the strong anti–HIV properties. Kryvorutchenko IuL, et al. **Mikrobiol Z** 1996 Sep–Oct;58(5):90–2

The vaginal microflora of pig–tailed macaques and the effects of chlorhexidine and benzalkonium on this ecosystem [published erratum appears in Sex Transm Dis 1997 Mar;24(3):180] Patton DL, et al. **Sex Transm Dis** 1996 Nov–Dec;23(6):489–93

[Bactericidal activity determination of Biseptine, combination of chlorhexidine, benzalkonium chloride and benzylic alcohol, on 124 hospital bacterial strains] Reverdy ME, et al. **Pathol Biol (Paris)** 1997 Apr;45(4):331–5 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Prospective, randomized trial of two antiseptic solutions for prevention of central venous or arterial catheter colonization and infection in intensive care unit patients. Mimoz O, et al. **Crit Care Med** 1996 Nov;24(11):1818–23

[The efficacy of dequalinium chloride/benzalkonium chloride as well as medicinal plants on the gingiva] Gruber I, et al. **Dtsch Zahn Mund Kieferheilkd Zentralbl** 1991;79(1):3–8 (Eng. Abstr.) **(Ger)**

[Use of miramistin in the treatment of experimental suppurative wounds in states of impaired peripheral blood circulation] Fesenko VP, et al. **Klin Khir** 1996;(8):30–2 **(Rus)**

TOXICITY

The effects of topical nasal steroids on rat respiratory mucosa in vivo, with special reference to benzalkonium chloride. Berg OH, et al. **Allergy** 1997 Jun;52(6):627–32

Prolonged adverse effects of benzalkonium chloride and sodium dodecyl sulfate in a primary culture system of rabbit corneal epithelial cells. Grant RL, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):71–82

Nasal lesions induced by intranasal administration of benzalkonium chloride in rats. Kuboyama Y, et al. **J Toxicol Sci** 1997 May;22(2):153–60

BENZALOLIN see **TOLAZOLINE**

BENZAMIDES

Antidepressant use in the elderly. Current status of nefazodone, venlafaxine and moclobemide. Goldberg RJ. **Drugs Aging** 1997 Aug;11(2):119–31 (86 ref.)

Synthesis of phenylazido–derivatized substances and photochemical surface modification to immobilize functional groups. Sugawara T, et al. **J Biomed Mater Res** 1996 Oct;32(2):157–64

Autosterilization of the house fly, Musca domestica, using the chitin synthesis inhibitor triflumuron on sugar–baited targets. Howard J, et al. **Med Vet Entomol** 1996 Jan; 10(1):97–100

[First drafts of the Environmental Health Criteria (EHC) circulated for comments by IPCS in 1995–1996] Ohtake C. **Eisei Shikenjo Hokoku** 1996;(114):95–8 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Safety and tolerability of combined treatment with moclobemide and SSRIs: a systematic study of 50 patients. Hawley CJ, et al. **Int Clin Psychopharmacol** 1996 Sep; 11(3):187–91

Moclobemide and fluoxetine in treatment of seasonal affective disorder. Partonen T, et al. **J Affect Disord** 1996 Nov 25; 41(2):93–9

Trimipramine and maprotiline plasma levels during combined treatment with moclobemide in therapy–resistant depression. König F, et al. **Pharmacopsychiatry** 1997 Jul; 30(4):125–7

An inhibitor of poly(adenosine 5'–diphosphoribose) synthetase, 3–aminobenzamide, does not improve cardiovascular depression, bronchospasm, or survival associated with systemic anaphylaxis in rabbits in vivo [see comments] Takeuchi H, et al. **Shock** 1997 Aug;8(2):147–52 . Comment in: Shock 1997 Aug;8(2):153–4.

[Treatment with selective and reversible monoamine oxidase inhibitors in depressed patients: is there a biological effect proportional to the dose?] Radat F, et al. **Ann Med Psychol (Paris)** 1996 Jun;154(3):204–6 **(Fre)**

[Preventive treatment of migraine and chronic tension headache with moclobemide] Meienberg O, et al. **Schweiz Rundsch Med Prax** 1997 Jul 2;86(27–28):1107–12 (Eng. Abstr.) **(Ger)**

[Possibilities of correcting adverse effects of anti–arrhythmia agents] Skibitskiĭ VV, et al. **Vestn Ross Akad Med Nauk** 1996;(5):9–12 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

An estimate of the risk of movement disorders associated with the chronic use of clebopride. Sempere AP, et al. **Mov Disord** 1996 Sep;11(5):582–3

Serotonin syndrome with moclobemide–fluoxetine combination [letter] Benazzi F. **Pharmacopsychiatry** 1996 Jul;29(4):162

[Severe hyponatremia induced by moclobemide (letter)] Mercier S, et al. **Therapie** 1997 Jan–Feb;52(1):82–3 **(Fre)**

[Depressive stupor–-malignant neuroleptic syndrome–-serotonin syndrome. A case contribution to a difficult differential diagnosis] König F, et al. **Nervenarzt** 1996 May;67(5):407–12 (Eng. Abstr.) **(Ger)**

ANALYSIS

High–performance liquid chromatographic study of the aromatic nitrile metabolism in soil bacteria. Gabriel J, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):191–5

Partial least–squares regression for the quantitation of pharmaceutical dosages in control analyses. Blanco M, et al. **J Pharm Biomed Anal** 1996 Dec;15(3):329–38

BLOOD

Simultaneous enantiomeric determination of a gastroprokinetic agent mosapride citrate and its metabolite in plasma using alpha 1–acid glycoprotein HPLC column. Yokoyama I, et al. **J Pharm Biomed Anal** 1997 Jun; 15(9–10):1527–35

CHEMICAL SYNTHESIS

Synthesis and spectral characterization of sulfhydryl–reactive fluorescent probes. Pouchnik DJ, et al. **Anal Biochem** 1996 Mar 1;235(1):26–35

Synthesis and evaluation of 4–substituted analogues of 5–[N,N–bis (2–chloroethyl)amino]–2–nitrobenzamide as bioreductively activated prodrugs using an Escherichia coli nitroreductase. Atwell GJ, et al. **Anticancer Drug Des** 1996 Oct;11(7):553–67

A new class of anti–HIV–1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'–dithiobisbenzamides. Domagala JM, et al. **Bioorg Med Chem** 1997 Mar; 5(3):569–79

Synthesis and biological activity of 4–amino–5–chloro–2–ethoxy–3–hydroxybenzamides, metabolites of a new gastroprokinetic agent, mosapride. Kato S, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug; 44(8):1484–92

Synthesis and in vitro evaluation of two progressive series of bifunctional polyhydroxybenzamide catechol–O–methyltransferase inhibitors. Brevitt SE, et al. **J Med Chem** 1997 Jun 20;40(13):2035–9

Probes for narcotic receptor mediated phenomena. 23. Synthesis, opioid receptor binding, and bioassay of the highly selective delta agonist (+)–4–[(alpha R)–alpha–((2S,5R)–4–Allyl–2,5–dimethyl–1–piperazinyl)–3–methoxybenzyl]– N,N–diethylbenzamide (SNC 80) and related novel nonpeptide delta opioid receptor ligands. Calderon SN, et al. **J Med Chem** 1997 Feb 28;40(5):695–704

Synthesis of novel trans–4–(substituted–benzamido)–3,4–dihydro–2H–benzo[b]–pyran–3–ol derivatives as potential anticonvulsant agents with a distinctive binding profile. Chan WN, et al. **J Med Chem** 1996 Nov 8;39(23):4537–9

Substituted [(4–phenylpiperazinyl)–methyl]benzamides: selective dopamine D4 agonists. Glase SA, et al. **J Med Chem** 1997 Jun 6;40(12):1771–2

Probes for narcotic receptor–mediated phenomena. 25. Synthesis and evaluation of N–alkyl–substituted (alpha–piperazinylbenzyl)benzamides as novel, highly selective delta opioid receptor agonists. Katsura Y, et al. **J Med Chem** 1997 Aug 29;40(18):2936–47

Synthesis of nonhydrolyzable analogues of thiazole–4–carboxamide and benzamide adenine dinucleotide containing fluorine atom at the C2' of adenine nucleoside: induction of K562 differentiation and inosine monophosphate dehydrogenase inhibitory activity. Lesiak K, et al. **J Med Chem** 1997 Aug 1;40(16):2533–8

The practical synthesis of a methylenebisphosphonate analogue of benzamide adenine dinucleotide: inhibition of human inosine monophosphate dehydrogenase (type I and II). Pankiewicz KW, et al. **J Med Chem** 1997 Apr 11; 40(8):1287–91

Synthesis and evaluation of [18F] labeled benzamides: high affinity sigma receptor ligands for PET imaging. Dence CS, et al. **Nucl Med Biol** 1997 May;24(4):333–40

Fluorine–18–labelled NCQ 115, a selective dopamine D–2 receptor ligand. Preparation and positron emission tomography. Halldin C, et al. **Nucl Med Biol** 1994 May; 21(4):627–31

Synthesis, conformational analysis and antidepressant activity of moclobemide new analogues. Ghanbarpour A, et al. **Pharm Acta Helv** 1997 Apr;72(2):119–22

Fluorous synthesis: a fluorous–phase strategy for improving separation efficiency in organic synthesis. Studer A, et al. **Science** 1997 Feb 7;275(5301):823–6

CHEMISTRY

Effects of pH and solvent on the fluorescence properties of biomedically important benzamides. Application to determination in drugs and in human urine. Buna M, et al. **Analyst** 1996 Nov;121(11):1551–6

Structure–based design of achiral, nonpeptidic hydroxybenzamide as a novel P2/P2' replacement for the symmetry–based HIV protease inhibitors. Randad RS, et al. **Bioorg Med Chem** 1996 Sep;4(9):1471–80

Design, synthesis, and in vitro activities of benzamide–core glycoprotein IIb/IIIa antagonists: 2,3–diaminopropionic

acid derivatives as surrogates of aspartic acid. Xue CB, et al. **Bioorg Med Chem** 1997 Apr;5(4):693–705

NP–101A, antifungal antibiotic from Streptomyces aurantiogriseus NPO–101. Phay N, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):703–5

GRID/GOLPE 3D quantitative structure–activity relationship study on a set of benzamides and naphthamides, with affinity for the dopamine D3 receptor subtype. Nilsson J, et al. **J Med Chem** 1997 Mar 14;40(6):833–40

HIV protease inhibitory bis–benzamide cyclic ureas: a quantitative structure–activity relationship analysis. Wilkerson WW, et al. **J Med Chem** 1996 Oct 11; 39(21):4299–312

Dobupride—what exactly is its degradation behavior? [letter] Singh S. **J Pharm Biomed Anal** 1997 Jul;15(11):1801–3

A novel complex of a phenolic derivative with insulin: structural features related to the T—>R transition. Smith GD, et al. **Protein Sci** 1996 Aug;5(8):1502–11

Dynamic nuclear polarization of nitrogen–15 in benzamide. Hu JZ, et al. **Solid State Nucl Magn Reson** 1997 Apr; 8(2):129–37

CONTRAINDICATIONS

[Are monamine oxidase inhibitors in disposition to malignant hyperthermia contraindicated? Discussion based on a case report] Wappler F, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):349–53 (Eng. Abstr.) **(Ger)**

DIAGNOSTIC USE

Sigma–receptor imaging by means of I123–IDAB scintigraphy: clinical application in melanoma and non–small cell lung cancer. Everaert H, et al. **Anticancer Res** 1997 May–Jun;17(3B):1577–82

Long–term treatment with the tetrahydropyridine analog (HPTP) of haloperidol influences dopamine ligand binding in baboon brain. An [123I]iodobenzamide (IBZM) SPECT study. Van der Schyf CJ, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):251–8

In vivo imaging of pituitary tumours using a radiolabelled dopamine D2 receptor radioligand. de Herder WW, et al. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):755–67

Multivariate cluster analysis of dynamic iodine–123 iodobenzamide SPET dopamine D2 receptor images in schizophrenia. Acton PD, et al. **Eur J Nucl Med** 1997 Feb; 24(2):111–8

Assessment of endogenous dopamine release by methylphenidate challenge using iodine–123 iodobenzamide single–photon emission tomography. Booij J, et al. **Eur J Nucl Med** 1997 Jun;24(6):674–7

Striatal and extrastriatal imaging of dopamine D2 receptors in the living human brain with [123I]epidepride single–photon emission tomography. Kuikka JT, et al. **Eur J Nucl Med** 1997 May;24(5):483–7

Dementia with lewy bodies: a study of post–synaptic dopaminergic receptors with iodine–123 iodobenzamide single–photon emission tomography. Walker Z, et al. **Eur J Nucl Med** 1997 Jun;24(6):609–14

Preclinical evaluation of [123I]R93274 as a SPECT radiotracer for imaging 5–HT2A receptors. Abi–Dargham A, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):285–93

Striatal D2 receptor binding in sleep bruxism: a controlled study with iodine–123–iodobenzamide and single–photon–emission computed tomography. Lobbezoo F, et al. **J Dent Res** 1996 Oct;75(10):1804–10

IBZM– and CIT–SPECT of the dopaminergic system in parkinsonism. Tissingh G, et al. **J Neural Transm Suppl** 1997;50:31–7 (38 ref.)

Structure distribution relationship of iodine–123–iodobenzamides as tracers for the detection of melanotic melanoma. Brandau W, et al. **J Nucl Med** 1996 Nov;37(11):1865–71

Visualizing ocular melanoma using iodine–123–N–(2–diethylaminoethyl)4–iodobenzamide SPECT. Everaert H, et al. **J Nucl Med** 1997 Jun; 38(6):870–3

Comparison of iodine–123–epidepride and iodine–123–IBZM for dopamine D2 receptor imaging [see comments] Leslie WD, et al. **J Nucl Med** 1996 Oct;37(10):1589–91. Comment in: J Nucl Med 1996 Oct;37(10):1591–5.

Dopamine D2 receptor imaging in pituitary adenomas using iodine–123–epidepride and SPECT. Pirker W, et al. **J Nucl Med** 1996 Dec;37(12):1931–7

Iodine–123–iodobenzamide binding in parkinsonism: reduction by dopamine agonists but not L–Dopa. Schwarz J, et al. **J Nucl Med** 1996 Jul;37(7):1112–5

Imaging of dopamine receptors with [123I]iodobenzamide single–photon emission–computed tomography in neuroleptic malignant syndrome. Jauss M, et al. **Mov Disord** 1996 Nov;11(6):726–8

Fluorine–18–labelled NCQ 115, a selective dopamine D–2 receptor ligand. Preparation and positron emission tomography. Halldin C, et al. **Nucl Med Biol** 1994 May; 21(4):627–31

SPET investigations in extrapyramidal diseases using specific ligands. Staffen W, et al. **Nucl Med Commun** 1997 Feb; 18(2):159–63

Prolactin plasma levels and D2–dopamine receptor occupancy measured with IBZM–SPECT. Schlegel S, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):285–7

Autoradiographic localization of extrastriatal D2–dopamine receptors in the human brain using [125I]epidepride. Hall H, et al. **Synapse** 1996 Jun;23(2):115–23

[Diagnostic value of 123iodine–ibzm scintigraphy for staging of malignant melanomas] Henker C, et al. **Nuklearmedizin** 1997 Jan;36(1):1–6 (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Localization of N–(2–diethylaminoethyl)4–iodobenzamide in the pigmented mouse eye: a microanalytical study. Chehade F, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 May; 42(3):343–50

METABOLISM

Effects of reserpine treatment on the dopamine receptor binding of [3H/11C]nemonapride in the mouse and rat brain. Ishiwata K, et al. **Ann Nucl Med** 1997 Feb;11(1):21–6

In vitro pharmacological profile of YM–43611, a novel D2–like receptor antagonist with high affinity and selectivity for dopamine D3 and D4 receptors. Hidaka K, et al. **Br J Pharmacol** 1996 Apr;117(8):1625–32

Binding of [3H](+)–BW373U86 to delta–opioid receptors in rat brain membranes. Campa MJ, et al. **Eur J Pharmacol** 1996 Aug 29;310(2–3):263–7

The novel anticonvulsant SB 204269 binds to a stereospecific site in the mouse brain. Herdon H, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):R7–8

Critical reevaluation of spiperone and benzamide binding to dopamine D2 receptors: evidence for identical binding sites. Malmberg A, et al. **Eur J Pharmacol** 1996 May 6; 303(1–2):123–8

The role of cytochrome P450 2D6 in the metabolism of moclobemide. Härtter S, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):225–30

Probes for narcotic receptor mediated phenomena. 23. Synthesis, opioid receptor binding, and bioassay of the highly selective delta agonist (+)–4–[(alpha R)–alpha–((2S,5R)–4–Allyl–2,5–dimethyl–1–piperazinyl)–3–methoxybenzyl]– N,N–diethylbenzamide (SNC 80) and related novel nonpeptide delta opioid receptor ligands. Calderon SN, et al. **J Med Chem** 1997 Feb 28;40(5):695–704

Dopamine D2 receptor binding is reduced in Wilson's disease: correlation of neurological deficits with striatal 123I–iodobenzamide binding. Oder W, et al. **J Neural Transm** 1996;103(8–9):1093–103

Autoradiographic distribution of [3H]–(S)–zacopride–labelled 5–HT3 receptors in human brain. Parker RM, et al. **J Neurol Sci** 1996 Dec; 144(1–2):119–27

Human delta opioid receptor: functional studies on stably transfected Chinese hamster ovary cells after acute and chronic treatment with the selective nonpeptidic agonist SNC–80. Malatynska E, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1083–9

Rapid in vivo metabolism of a methylether derivative of (+/–)–BW373U86: the metabolic fate of [3H]SNC121 in rats. Schetz JA, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1069–76

Human liver CYP2B6–catalyzed hydroxylation of RP 73401. Stevens JC, et al. **J Pharmacol Exp Ther** 1997 Sep; 282(3):1389–95

Multiple [3H]–nemonapride binding sites in calf brain. Helmeste DM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):17–21

[3H]YM–09151–2 (nemonapride), a potent radioligand for both sigma 1 and sigma 2 receptor subtypes. Ujike H, et al. **Neuroreport** 1996 Apr 10;7(5):1057–61

Dopamine and depression—striatal dopamine D2 receptor SPECT before and after antidepressant therapy. Ebert D, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):91–4

Metabolism of diethyl 4–[(4–bromo–2–cyanophenyl)–carbamoyl]benzylphosphonate in the rat. Morioka Y, et al. **Xenobiotica** 1996 Aug;26(8):853–61

Identification of major biliary and urinary metabolites of ecabapide in rats. Nakaoka M, et al. **Xenobiotica** 1996 Sep; 26(9):983–94

PHARMACOKINETICS

Synthesis and biological activity of the metabolites of diethyl 4–[(4–bromo–2–cyanophenyl) carbamoyl]benzylphosphonate (NO–1886). Goto K, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):547–51

Binding profile of the novel 5–HT1B/1D receptor antagonist, [3H]GR 125,743, in guinea–pig brain: a comparison with [3H]5–carboxamidotryptamine. Audinot V, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):247–56

Pharmacokinetics of iodine–123–IMBA for melanoma imaging. Nicholl C, et al. **J Nucl Med** 1997 Jan;38(1):127–33

Rapid in vivo metabolism of a methylether derivative of (+/–)–BW373U86: the metabolic fate of [3H]SNC121 in rats. Schetz JA, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1069–76

A single photon emission computed tomography scan study of striatal dopamine D2 receptor binding with 123I–epidepride in patients with schizophrenia and controls. Tibbo P, et al. **J Psychiatry Neurosci** 1997 Jan; 22(1):39–45

Pharmacokinetics of the three radioiodinated dopamine D2 receptor ligands [123I]IBF, [123I]epidepride and [123I]2'–ISP in nonhuman primates. Baldwin RM, et al. **Nucl Med Biol** 1994 Oct;21(7):969–76

Synthesis, in vitro binding profile and biodistribution of a 125I–labeled N–benzyl pyrrolidinyl benzamide derivative: a potential radioligand for mapping dopamine D2 receptors. Saji H, et al. **Nucl Med Biol** 1996 Feb;23(2):121–7

Metabolism of diethyl 4–[(4–bromo–2–cyanophenyl)–carbamoyl]benzylphosphonate in the rat. Morioka Y, et al. **Xenobiotica** 1996 Aug;26(8):853–61

PHARMACOLOGY

The non–peptide tachykinin NK1– and NK2–receptor antagonists SR 140333 and SR 48968 prevent castor–oil induced diarrhea in rats. Croci T, et al. **Acta Physiol Hung** 1996;84(3):273–4

The influence of antagonists of poly(ADP–ribose)polymerase on the activity of antirheumatic drugs on the development of adjuvant arthritis in rats and on the induction of tyrosine aminotransferase in the liver of rats. Kröger H, et al. **Adv Exp Med Biol** 1996;398:523–6

Effects of inhibitors of ADP–ribosylation on macrophage activation. Le Page C, et al. **Adv Exp Med Biol** 1997; 419:203–7

Epidural anaesthesia, ephedrine and phenylephrine in a patient taking moclobemide, a new monoamine oxidase inhibitor. Martyr JW, et al. **Anaesthesia** 1996 Dec; 51(12):1150–2

All monoamine oxidase inhibitors are not equal [letter; comment] Sternberg TL. **Anesth Analg** 1997 Apr;84(4):938 . Comment on: Anesth Analg 1996 Sep;83(3):656–7.

The human immunodeficiency virus type 1 (HIV–1) nucleocapsid protein zinc ejection activity of disulfide benzamides and benzisothiazolones: correlation with anti–HIV and virucidal activities. Tummino PJ, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):394–400

SRR–SB3, a disulfide–containing macrolide that inhibits a late stage of the replicative cycle of human immunodeficiency virus. Witvrouw M, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):262–8

Pharmacological characteristics of DQ–2511 as a prokinetic agent. Hatanaka S, et al. **Arch Int Pharmacodyn Ther** 1995 Nov–Dec;330(3):332–44

A new nonsteroidal chemical class of ligand for the ecdysteroid receptor 3, 5–di–tert–butyl–4–hydroxy–N–isobutyl–benzamide shows apparent insect molting hormone activities at molecular and cellular levels. Mikitani K. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):427–32

Investigation of the mechanisms of complement mediated cell death in lymphocytes. O'Toole CE, et al. **Biochem Soc Trans** 1997 May;25(2):367S

Anticonvulsant and neurotoxicological properties of 4–amino–N–(2–ethylphenyl)benzamide, a potent ameltolide analogue. Diouf O, et al. **Biomed Pharmacother** 1997; 51(3):131–6

Central antitussive activity of the NK1 and NK2 tachykinin receptor antagonists, CP–99,994 and SR 48968, in the guinea–pig and cat. Bolser DC, et al. **Br J Pharmacol** 1997 May;121(2):165–70

Beneficial effects of 3–aminobenzamide, an inhibitor of poly (ADP–ribose) synthetase in a rat model of splanchnic artery occlusion and reperfusion. Cuzzocrea S, et al. **Br J Pharmacol** 1997 Jul;121(6):1065–74

Tachykinin receptors in the guinea–pig isolated oesophagus: a complex system. Kerr KP, et al. **Br J Pharmacol** 1997 Mar;120(6):1021–8

Effects of RP 73401, a novel, potent and selective phosphodiesterase type 4 inhibitor, on contractility of human, isolated bronchial muscle. Naline E, et al. **Br J Pharmacol** 1996 Aug;118(8):1939–44

A cyclic GMP–dependent housekeeping Cl– channel in rabbit gastric parietal cells activated by a vasodilator ecabapide. Sakai H, et al. **Br J Pharmacol** 1996 Dec; 119(8):1591–9

Evidence that cyclic AMP phosphodiesterase inhibitors suppress interleukin–2 release from murine splenocytes by interacting with a 'low–affinity' phosphodiesterase 4 conformer. Souness JE, et al. **Br J Pharmacol** 1997 Jun; 121(4):743–50

Evidence that cyclic AMP phosphodiesterase inhibitors suppress TNF alpha generation from human monocytes by interacting with a 'low–affinity' phosphodiesterase 4 conformer. Souness JE, et al. **Br J Pharmacol** 1996 Jun; 118(3):649–58

Benzamide, an inhibitor of poly(ADP–ribose) polymerase, attenuates methamphetamine–induced dopamine neurotoxicity in the C57B1/6N mouse. Cosi C, et al. **Brain Res** 1996 Oct 7;735(2):343–8

Poly(ADP–ribose) polymerase inhibitors protect against MPTP–induced depletions of striatal dopamine and cortical noradrenaline in C57B1/6 mice. Cosi C, et al. **Brain Res** 1996 Aug 12;729(2):264–9

Distribution and characterisation of the [3H](S)–zacopride labelled 5–HT3 receptor in pig forebrain. Fletcher S, et al. **Brain Res** 1996 Aug 12;729(2):281–4

GGTI–298 induces G0–G1 block and apoptosis whereas FTI–277 causes G2–M enrichment in A549 cells. Miquel K, et al. **Cancer Res** 1997 May 15;57(10):1846–50

Effects of AWD 23–111, a new antiarrhythmic substance, on cardiac conduction and refractoriness. Stark U, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):531–8

Synthesis and biological activity of the metabolites of diethyl 4–[(4–bromo–2–cyanophenyl) carbamoyl]benzylphosphonate (NO–1886). Goto K, et al.

Chem Pharm Bull (Tokyo) 1996 Mar;44(3):547–51

Pharmacokinetic–pharmacodynamic interactions between two selective monoamine oxidase inhibitors: moclobemide and selegiline. Dingemanse J, et al.
Clin Neuropharmacol 1996 Oct;19(5):399–414

Moclobemide. An update of its pharmacological properties and therapeutic use [published erratum appears in Drugs 1996 Dec;52(6):869] Fulton B, et al. **Drugs** 1996 Sep; 52(3):450–74 (115 ref.)

MAO–A inhibition in brain after dosing with esuprone, moclobemide and placebo in healthy volunteers: in vivo studies with positron emission tomography. Bergström M, et al. **Eur J Clin Pharmacol** 1997;52(2):121–8

Lack of effect of the serotonin4 receptor agonist zacopride on ACTH secretion in normal men. Lefebvre H, et al.
Eur J Clin Pharmacol 1996;51(1):49–51

Moxonidine and cognitive function: interactions with moclobemide and lorazepam. Wesnes K, et al.
Eur J Clin Pharmacol 1997;52(5):351–8

Brain sigma receptors labelled by [3H]nemonapride. Helmeste D, et al. **Eur J Pharmacol** 1996 Apr 22; 301(1–3):R1–3

Characterization of tachykinin NK2 receptor on dog proximal colon. Antagonism by MEN 10,627 and SR 48,968. Parlani M, et al. **Eur J Pharmacol** 1996 Dec 30; 318(2–3):419–24

SR 48968 specifically depresses neurokinin A– vs. substance P–induced hyperalgesia in a nociceptive withdrawal reflex. Yashpal K, et al. **Eur J Pharmacol** 1996 Jul 11;308(1):41–8

Effects of specific tachykinin receptor antagonists on citric acid–induced cough and bronchoconstriction in unanesthetized guinea pigs. Yasumitsu R, et al.
Eur J Pharmacol 1996 Apr 11;300(3):215–9

Actions of Daiichi DQ–2511 on electrical and synaptic behavior of enteric neurons in the guinea–pig small intestine. Zafirov D, et al. **Eur J Pharmacol** 1996 Sep 5; 311(1):61–6

The effects of moclobemide on sexual desire and function in healthy volunteers. Kennedy SH, et al.
Eur Neuropsychopharmacol 1996 Aug;6(3):177–81

New benzamide–derived 5–HT3 receptor antagonists which prevent the effects of ethanol on extracellular dopamine, and fail to reduce voluntary alcohol intake in rats. Iusco G, et al. **Farmaco** 1997 Mar;52(3):141–6

Aerosolized tachykinin antagonists inhibit pentamidine–induce bronchoconstriction in guinea pigs. Jarreau PH, et al. **Fundam Clin Pharmacol** 1996; 10(6):518–23

Tyramine pharmacodynamics during combined administration of lazabemide and moclobemide. Dingemanse J, et al. **Int J Clin Pharmacol Ther** 1996 Apr; 34(4):172–7

NP–101A, antifungal antibiotic from Streptomyces aurantiogriseus NPO–101. Phay N, et al.
J Antibiot (Tokyo) 1996 Jul;49(7):703–5

A new inhibitor of mitochondrial fatty acid oxidation. Hashimoto T, et al. **J Biochem (Tokyo)** 1996 Jun; 119(6):1196–201

Modification of the cardiovascular effects of ephedrine by the reversible monoamine oxidase A–inhibitor moclobemide. Dingemanse J, et al.
J Cardiovasc Pharmacol 1996 Dec;28(6):856–61

Effects of a novel 2,3–oxidosqualene cyclase inhibitor on the regulation of cholesterol biosynthesis in HepG2 cells. Mark M, et al. **J Lipid Res** 1996 Jan;37(1):148–58

Biophysical characterization of zinc ejection from HIV nucleocapsid protein by anti–HIV 2,2'–dithiobis[benzamides] and benzisothiazolones. Loo JA, et al. **J Med Chem** 1996 Oct 11;39(21):4313–20

Effects of sulpiride and nemonapride, benzamide derivatives having distinct potencies of antagonistic action on dopamine D2 receptors, on sensitization to methamphetamine in mice. Kuribara H.
J Pharm Pharmacol 1996 Mar;48(3):292–6

Electrophysiologic effects of nibentan (HE–11) on canine cardiac tissue. Anyukhovsky EP, et al.
J Pharmacol Exp Ther 1997 Mar;280(3):1137–46

Electrophysiological characterization of the prokinetic agents cisapride and mosapride in vivo and in vitro: implications for proarrhythmic potential? Carlsson L, et al.
J Pharmacol Exp Ther 1997 Jul;282(1):220–7

FK960 [N–(4–acetyl–1–piperazinyl)–p–fluorobenzamide monohydrate], a novel potential antidementia drug, improves visual recognition memory in rhesus monkeys: comparison with physostigmine. Matsuoka N, et al.
J Pharmacol Exp Ther 1997 Mar;280(3):1201–9

Antagonistic modulation between the delta opioid agonist BW373U86 and the mu opioid agonist fentanyl in mice. O'Neill SJ, et al. **J Pharmacol Exp Ther** 1997 Jul; 282(1):271–7

Effect of cisapride and renzapride on gastrointestinal motility and plasma motilin concentration in dogs. Song CW, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1312–6

FK960 N–(4–acetyl–1–piperazinyl)–p–fluorobenzamide monohydrate ameliorates the memory deficits in rats through a novel mechanism of action. Yamazaki M, et al.
J Pharmacol Exp Ther 1996 Dec;279(3):1157–73

Sexual side effects of antidepressants: a review. Margolese HC, et al. **J Sex Marital Ther** 1996 Fall;22(3):209–17 (68 ref.)

Possible mechanisms underlying the suppression of gastric vagal afferents due to ecabapide (DQ–2511), a gastroprokinetic agent, in rats. Hatanaka S, et al.
Jpn J Pharmacol 1997 May;74(1):105–8

Gastroprokinetic effect of a new benzamide derivative itopride and its action mechanisms in conscious dogs. Iwanaga Y, et al. **Jpn J Pharmacol** 1996 Jun;71(2):129–37

Autosterilization of the house fly, Musca domestica, using the chitin synthesis inhibitor triflumuron on sugar–baited targets. Howard J, et al. **Med Vet Entomol** 1996 Jan; 10(1):97–100

The novel compound NO–1886 elevates plasma high–density lipoprotein cholesterol levels in hamsters and rabbits by increasing lipoprotein lipase without any effect on cholesteryl ester transfer protein activity. Tsutsumi K, et al. **Metabolism** 1997 Mar;46(3):257–60

Experimental anxiety and antidepressant drugs: the effects of moclobemide, a selective reversible MAO–A inhibitor, fluoxetine and imipramine in mice. de Angelis L.
Naunyn Schmiedebergs Arch Pharmacol 1996 Aug–Sep; 354(3):379–83

Tachykinin receptors mediate atropine–resistant rat duodenal reflex contractions in vivo. Giuliani S, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 Aug–Sep; 354(3):327–35

Tachykinin NK2 receptors: characterization in the rat small intestine by the use of a peptide agonist and a nonpeptide antagonist as radioligands. Renzetti AR, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 Jul; 356(1):139–44

Comparative evaluation of DQ–2511, a novel gastroprokinetic agent, with cisapride in ameliorative action on experimentally induced delayed gastric emptying. Hatanaka S, et al. **Neurogastroenterol Motil** 1996 Sep; 8(3):227–33

Stereoselective effects of (R)– and (S)–zacopride on cognitive performance in a spatial navigation task in rats. Fontana DJ, et al. **Neuropharmacology** 1996 Mar;35(3):321–7

Effects of YM–43611, a novel dopamine D2–like receptor antagonist, on immediate early gene expression in the rat forebrain. Kurokawa K, et al. **Neuropsychopharmacology** 1997 Jul;17(1):27–33

YM–50001: a novel, potent and selective dopamine D4 receptor antagonist. Hidaka K, et al. **Neuroreport** 1996 Nov 4;7(15–17):2543–6

5–HT1E receptor agonists inhibit neurogenic dural inflammation in guinea pigs. Johnson KW, et al.
Neuroreport 1997 Jul 7;8(9–10):2237–40

Dopamine D2 receptors are organized in bands in normal human temporal cortex. Goldsmith SK, et al.
Neuroscience 1996 Sep;74(2):435–51

Synthesis, conformational analysis and antidepressant activity of moclobemide new analogues. Ghanbarpour A, et al.
Pharm Acta Helv 1997 Apr;72(2):119–22

Effects of moclobemide on forced–swimming stress and brain monoamine levels in mice. Miura H, et al.
Pharmacol Biochem Behav 1996 Feb;53(2):469–75

Effects of dopamine antagonists on changes in spontaneous EEG and locomotor activity in ketamine–treated rats. Yamamoto M, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):361–5

Dissociation between the potency and reversibility of the insulinotropic action of two meglitinide analogues. Jijakli H, et al. **Pharmacol Res** 1996 Sep–Oct;34(3–4):105–8

Investigation of the effects of moclobemide in chronic ethanol feeding rats. Uzbay IT, et al. **Pharmacol Res** 1995 Nov;32(5):287–92

Behavioural profiles of the reversible monoamine–oxidase–A inhibitors befloxatone and moclobemide in an experimental model for screening anxiolytic and anti–panic drugs. Griebel G, et al. **Psychopharmacology (Berl)** 1997 May; 131(2):180–6

Effects of the delta opioid against BW373U86 in pigeons trained to discriminate fentanyl, bremazocine and water in a three–choice drug discrimination procedure. Negus SS, et al. **Psychopharmacology (Berl)** 1996 Aug; 126(3):199–205

Modulation of the effect of camptothecin in x–irradiated L5178Y–R and L5178Y–S cells by benzamide. Grądzka I, et al. **Radiat Environ Biophys** 1996 Aug;35(3):185–91

Inhibition of the induction of collagenase by interleukin–1 beta in cultured rabbit synovial fibroblasts after treatment with the poly(ADP–ribose)–polymerase inhibitor 3–aminobenzamide. Ehrlich W, et al. **Rheumatol Int** 1995; 15(4):171–2

Effect of the acute and chronic administration of the selective neurokinin2 receptor antagonist SR 48968 on midbrain dopamine neurons in the rat: an in vivo extracellular single cell study. Minabe Y, et al. **Synapse** 1997 Feb;25(2):196–204

Iodolisuride and iodobenzamide, two ligands for SPECT exploration of the dopaminergic D2 receptors: a comparative study. Pellevoisin C, et al. **Synapse** 1996 Sep; 24(1):79–86

Characterization of a hemagglutinin–specific inhibitor of influenza A virus. Luo G, et al. **Virology** 1996 Dec 1; 226(1):66–76

[Effect of befol on the threshold of electric fibrillation of heart ventricles] Galenko–Iaroshevskiĭ PA, et al.
Biull Eksp Biol Med 1997 Mar;123(3):305–7 **(Rus)**

[A study of the mechanism of lidocaine and befol effects on Na–exchange in normal cardiomyocytes and in the experimental model of hypoxia in vitro] Khankoeva AI, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):45–7 **(Rus)**

POISONING

Moclobemide fatalities: report of two cases and analytical determinations by GC–MS and HPLC–PDA after solid–phase extraction. Gaillard Y, et al.
Forensic Sci Int 1997 Jun 23;87(3):239–48

Serotonin syndrome due to an overdose of moclobemide and clomipramine. A potentially life–threatening association. François B, et al. **Intensive Care Med** 1997 Jan;23(1):122–4

[Poisoning with a reversible and selective monoaminooxidase inhibitor] Pall M, et al. **Ugeskr Laeger** 1997 Aug 4; 159(32):4859–60 (Eng. Abstr.) **(Dan)**

[Serotonin syndrome in acute poisoning with antidepressive agents] Robert P, et al. **Ann Fr Anesth Reanim** 1996; 15(5):663–5 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Nemonapride for the treatment of schizophrenia [letter] Satoh K, et al. **Am J Psychiatry** 1997 Feb;154(2):292

Use of injectable lufenuron for treatment of infestations of Ctenocephalides felis in cats. Franc M, et al.
Am J Vet Res 1997 Feb;58(2):140–2

Suppression of hyperlipidemia–associated cataracts in diabetic rats with the lipoprotein lipase activator NO–1886. Tsutsumi K, et al. **Biol Pharm Bull** 1996 Dec;19(12):1570–3

Treatment–resistant affective disorders [letter; comment] Bowskill RJ, et al. **Br J Hosp Med** 1997 Feb 19–Mar 4; 57(4):171–2. Comment on: Br J Hosp Med 1995 Nov 15–Dec 12;54(10):501–6.

Moclobemide in elderly patients with cognitive decline and depression: an international double–blind, placebo–controlled trial. Roth M, et al. **Br J Psychiatry** 1996 Feb;168(2):149–57

Advances in psychopharmacology––schizophrenia. Owens DG. **Br Med Bull** 1996 Jul;52(3):556–74 (90 ref.)

Moclobemide. An update of its pharmacological properties and therapeutic use [published erratum appears in Drugs 1996 Dec;52(6):869] Fulton B, et al. **Drugs** 1996 Sep; 52(3):450–74 (115 ref.)

The International Multicenter Clinical Trial Group on Moclobemide in Social Phobia. Moclobemide in social phobia. A double–blind, placebo–controlled clinical study.
Eur Arch Psychiatry Clin Neurosci 1997;247(2):71–80

Tyramine pressor sensitivity in healthy subjects during combined treatment with moclobemide and selegiline. Korn A, et al. **Eur J Clin Pharmacol** 1996;49(4):273–8

Understanding social phobia. Proceedings of the IVth International Symposium on Moclobemide. Oslo, Norway, 15–16 September 1995. **Int Clin Psychopharmacol** 1996 Jun; 11 Suppl 3:1–112

Moclobemide: a paradigm of research in clinical psychopharmacology. Angst J, et al.
Int Clin Psychopharmacol 1996 Jun;11 Suppl 3:3–7 (32 ref.)

Moclobemide in the treatment of social phobia. Nutt D, et al. **Int Clin Psychopharmacol** 1996 Jun;11 Suppl 3:77–82 (22 ref.)

Effects of nemonapride on positive and negative symptoms of schizophrenia. Satoh K, et al.
Int Clin Psychopharmacol 1996 Dec;11(4):279–81

The long–term treatment of social phobia with moclobemide. Versiani M, et al. **Int Clin Psychopharmacol** 1996 Jun;11 Suppl 3:83–8

An open study of the efficacy and adverse effects of moclobemide in patients with the chronic fatigue syndrome. White PD, et al. **Int Clin Psychopharmacol** 1997 Jan;12(1):47–52

The Major Depression Rating Scale (MDS). Inter–rater reliability and validity across different settings in randomized moclobemide trials. Danish University Antidepressant Group. Bech P, et al. **J Affect Disord** 1997 Jan;42(1):39–48

Brofaromine for social phobia: a multicenter, placebo–controlled, double–blind study. Lott M, et al.
J Clin Psychopharmacol 1997 Aug;17(4):255–60

Combined treatment with moclobemide and methylphenidate for comorbid major depression and adult attention–deficit/hyperactivity disorder [letter] Myronuk LD, et al. **J Clin Psychopharmacol** 1996 Dec;16(6):468–9

Moclobemide in social phobia: a controlled dose–response trial. Noyes R Jr, et al. **J Clin Psychopharmacol** 1997 Aug; 17(4):247–54

Influence of a potential anti–asthmatic drug, CR 2039, upon the anticonvulsive activity of conventional antiepileptics against maximal electroshock–induced seizures in mice. Czuczwar SJ, et al. **J Neural Transm** 1996;103(12):1371–9

Moclobemide versus fluoxetine for double depression: a randomized double–blind study. Duarte A, et al.
J Psychiatr Res 1996 Nov–Dec;30(6):453–8

Moclobemide versus fluoxetine in the treatment of major depressive disorder in adults. Lapierre YD, et al.
J Psychiatry Neurosci 1997 Mar;22(2):118–26

Antidepressant co–prescribing––how often does it occur? [letter; comment] [see comments] Parkes AJ.
Med J Aust 1996 Sep 16;165(6):346. Comment on: Med J Aust 1996 Apr 15;164(8):509. Comment in: Med J Aust 1997 Feb 3;166(3):167.

Influence of moclobemide on cognitive functions of nine depressed patients: pilot trial with neurophysiological and neuropsychological indices. Galderisi S, et al.
Neuropsychobiology 1996;33(1):48–54

Cinitapride protects against ethanol–induced gastric mucosal injury in rats: role of 5–hydroxytryptamine, prostaglandins

BENZAMIDES

and sulfhydryl compounds. Alarcón-de-la-Lastra Romero C, et al. **Pharmacology** 1997 Apr;54(4):193-202

Combination therapy using moclobemide with tricyclic and tetracyclic antidepressants to treat therapy-resistant depression. König F, et al. **Pharmacopsychiatry** 1997 May; 30(3):93-6

Quality-monitoring of psychotropic drug therapy in post-marketing surveillance. Results of a drug utilization observation (DUO) study on moclobemide. Laux G, et al. **Pharmacopsychiatry** 1997 Jan;30(1 Suppl):21-7

What happens to patients after the end of a clinical trial? Systematic follow-up observational study of an open moclobemide trial in major depression. Linden M, et al. **Pharmacopsychiatry** 1997 Jan;30(1 Suppl):35-43

Initial monoamine oxidase-A inhibition by moclobemide does not predict the therapeutic response in patients with major depression. A double blind, randomized study. Radat F, et al. **Psychopharmacology (Berl)** 1996 Oct;127(4):370-6

The effect of 3-aminobenzamide, an inhibitor of poly-ADP-ribose polymerase, on ischemia/reperfusion damage in rat retina. Lam TT. **Res Commun Mol Pathol Pharmacol** 1997 Mar;95(3):241-52

[Special aspects of antidepressive therapy] **Nervenarzt** 1994 Mar;65(3 Suppl [speziell]):1-8 **(Ger)**

[Customary antidepressive treatment in Hungary: moclobemid therapy in everyday practice] Bartkó G. **Orv Hetil** 1997 Sep 14;138(37):2341-5 (Eng. Abstr.) **(Hun)**

[Comparative anti-arrhythmia activity of befol, lidocaine, and bonnecor] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):665-8 **(Rus)**

[Activity of benzamide and it's derivatives against botulinum intoxication] Ugriumova GA, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):684-6 **(Rus)**

[The comparative efficacy of Aurorix and amitriptyline in treating depressions] Iakovlev VA. **Voen Med Zh** 1997 Apr; 318(4):37-8 **(Rus)**

[A new approach to the prevention and treatment of lesions caused by bacterial toxins: prospects for using inhibitors of ADP ribosylation] Krasil'nikov II, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan-Feb;(1):11-3 (Eng. Abstr.) **(Rus)**

[Instenon in the treatment of acute disorders of the cerebral circulation] Ignatenko AV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(4):44-7 (Eng. Abstr.) **(Rus)**

[The use of Instenon to correct a postanesthesia consciousness disorder in surgical patients] Rumiantseva SA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(6):88-9 **(Rus)**

TOXICITY

Characterization of olfactory deficits in the rat following administration of 2,6-dichlorobenzonitrile (dichlobenil), 3,3'-iminodipropionitrile, or methimazole. Genter MB, et al. **Fundam Appl Toxicol** 1996 Jan;29(1):71-7

A possible mechanism of heinz body hemolytic anemia induced by DQ-2511, a new gastroprokinetic drug, in dogs. Ohno H, et al. **Fundam Appl Toxicol** 1996 Aug;32(2):269-77

Lufenuron, a chitin-synthesis inhibitor, interrupts development of Drosophila melanogaster. Wilson TG, et al. **J Exp Zool** 1997 May 1;278(1):37-44

Effects of dichlobenil on ultrastructural morphology and cell replication in the mouse olfactory mucosa. Mancuso M, et al. **Toxicol Pathol** 1997 Mar-Apr;25(2):186-94

G-protein(S), G alpha q/G alpha 11, in the olfactory neuroepithelium of the channel catfish (Ictalurus punctatus) is altered by the herbicide, dichlobenil. Andreini I, et al. **Toxicology** 1997 Feb 28;117(2-3):111-22

BENZAMIDINES

CHEMICAL SYNTHESIS

Use of conformationally restricted benzamidines as arginine surrogates in the design of platelet GPIIb-IIIa receptor antagonists. Sall DJ, et al. **J Med Chem** 1997 Aug 29; 40(18):2843-57

CHEMISTRY

AT selectivity and DNA minor groove binding: modelling, NMR and structural studies of the interactions of propamidine and pentamidine with d(CGCGAATTCGCG)2. Jenkins TC, et al. **Biochim Biophys Acta** 1997 Feb 7;1350(2):189-204

Hydration and solution structure of d(CGCAAATTTGCG)2 and its complex with propamidine from NMR and molecular modelling. Lane AN, et al. **Biochim Biophys Acta** 1997 Feb 7;1350(2):205-20

The new inhibitors of ribonucleotide reductase--comparison of some physico-chemical properties. Romanova D, et al. **J Pharm Biomed Anal** 1997 Apr;15(7):951-6

METABOLISM

Sequence-selective binding to DNA of bis(amidinophenoxy)alkanes related to propamidine and pentamidine. Bailly C, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):23-31

Isolation and characterization of the protein components of the liver microsomal O2-insensitive NADH-benzamidoxime reductase. Clement B, et al. **J Biol Chem** 1997 Aug 1;272(31):19615-20

PHARMACOLOGY

Competitive inhibition of nitric oxide synthase by p-aminobenzamidine, a serine proteinase inhibitor. Venturini G, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):88-90

Structural determinants of putrescine uptake inhibition produced by cationic diamidines in the model of trypanosomatid Crithidia fasciculata. Navas IM, et al. **Biol Chem** 1996 Dec;377(12):833-6

Inhibitors of urokinase reduce size of prostate cancer xenografts in severe combined immunodeficient mice. Jankun J, et al. **Cancer Res** 1997 Feb 15;57(4):559-63

In vitro amoebicidal activity of propamidine and pentamidine isethionate against Acanthamoeba species and toxicity to corneal tissues. Alizadeh H, et al. **Cornea** 1997 Jan; 16(1):94-100

Use of conformationally restricted benzamidines as arginine surrogates in the design of platelet GPIIb-IIIa receptor antagonists. Sall DJ, et al. **J Med Chem** 1997 Aug 29; 40(18):2843-57

The potential effects of new synthetic drugs against Leishmania amazonensis and Trypanosoma cruzi. Canto-Cavalheiro MM, et al. **Microbios** 1997;90(362):51-60

Inhibitory effect of a novel orally active GP IIb/IIIa inhibitor, SC-54684A on intimal thickening in the guinea pig femoral artery. Umemura K, et al. **Thromb Haemost** 1996 Nov;76(5):799-806

THERAPEUTIC USE

Acanthamoeba keratitis: risk factors and outcome [letter; comment] Hay J, et al. **Br J Ophthalmol** 1996 Aug;80(8):773 . Comment on: Br J Ophthalmol 1995 Dec;79(12):1078-82.

Acanthamoeba keratitis: first recorded case from a Palestinian patient with trachoma [letter] Pyott A, et al. **Br J Ophthalmol** 1996 Sep;80(9):849

Successful medical therapy of Acanthamoeba keratitis with topical chlorhexidine and propamidine. Seal D, et al. **Eye** 1996;10 (Pt 4):413-21

Outcome of acanthamoeba keratitis treated with polyhexamethyl biguanide and propamidine. Duguid IG, et al. **Ophthalmology** 1997 Oct;104(10):1587-92

TOXICITY

Genotoxic properties of the newly synthesized antineoplastic agents amidox, didox and trimidox. Miadoková E, et al. **Pharmazie** 1997 Jul;52(7):540-4

BENZANTHRACENES

CHEMISTRY

7-Sulfooxymethylbenz[a]anthracene is an ultimate electrophilic and carcinogenic form of 7-hydroxymethylbenz[a]anthracene. Flesher JW, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):712-6

The structure of a coumarin derivative related to the carcinogen benz[a]anthracene. Flocco MM, et al. **Carcinogenesis** 1996 Oct;17(10):2245-8

Relationship between the 13C-NMR chemical shift and the carcinogenic activity of benz[a]anthracenes. Sakamoto Y, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):424-8

The effect of fluoro substituents on reactivity of 7-methylbenz[a]anthracene diol epoxides. Baer-Dubowska W, et al. **Chem Res Toxicol** 1996 Jun;9(4):722-8

[Photomodification of DNA using a catalytic two-component system of oligonucleotides bearing benzanthracene and perfluorarylazide residues] Dobrikov MI, et al. **Dokl Akad Nauk** 1996 Dec;351(4):547-50 **(Rus)**

METABOLISM

Genotoxic effects of cyclopenta-fused polycyclic aromatic hydrocarbons in different types of isolated rat lung cells. Johnsen NM, et al. **Carcinogenesis** 1997 Jan;18(1):193-9

Uptake and efflux of polycyclic aromatic hydrocarbons by Tetrahymena pyriformis: evidence for a resistance mechanism. Bamdad M, et al. **Cytometry** 1997 Jun 1; 28(2):170-5

3-Hydroxymethylcholanthrene: metabolic formation from 3-methylcholanthrene and stereoselective metabolism by rat liver microsomes. Shou M, et al. **Drug Metab Dispos** 1996 May;24(5):595-601

Cloning and heterologous expression of the entire gene clusters for PD 116740 from Streptomyces strain WP 4669 and tetrangulol and tetrangomycin from Streptomyces rimosus NRRL 3016. Hong ST, et al. **J Bacteriol** 1997 Jan; 179(2):470-6

PHARMACOLOGY

Human NAD(P)H:quinone oxidoreductase induction in human hepatoma cells after exposure to industrial acrylates, phenolics, and metals. Winner EJ, et al. **Drug Metab Dispos** 1997 Feb;25(2):175-81

TOXICITY

Analysis of 7-methylbenz[a]anthracene-DNA adducts formed in SENCAR mouse epidermis by 32P-postlabeling. Baer-Dubowska W, et al. **Carcinogenesis** 1997 Mar; 18(3):523-9

Relationship between the 13C-NMR chemical shift and the carcinogenic activity of benz[a]anthracenes. Sakamoto Y, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):424-8

Effects of methyl substitutions on benz[a]anthracene derivatives-induced immunosuppression. Saas P, et al. **J Toxicol Environ Health** 1996 Nov;49(4):371-87

BENZATHINE PENICILLIN see **PENICILLIN G, BENZATHINE**

BENZAZEPINES

ADMINISTRATION & DOSAGE

Effects of zatebradine (ULFS 49 CL), a sinus node inhibitor, on heart rate and exercise duration in chronic stable angina pectoris. Zatebradine Investigators. Glasser SP, et al. **Am J Cardiol** 1997 May 15;79(10):1401-5

Talipexole or pramipexole combinations with chloro-APB (SKF 82958) in MPTP-induced hemiparkinsonian monkeys. Domino EF, et al. **Eur J Pharmacol** 1997 May 1;325(2-3):137-44

Syndrome of inappropriate antidiuresis without involving inappropriate secretion of vasopressin in an elderly woman: effect of intravenous administration of the nonpeptide vasopressin V2 receptor antagonist OPC-31260. Kamoi K. **Nephron** 1997;76(1):111-5

ADVERSE EFFECTS

Delayed onset of angioedema with angiotensin-converting enzyme inhibitors: case report and review of the literature. O'Mara NB, et al. **Pharmacotherapy** 1996 Jul-Aug; 16(4):675-9 (40 ref.)

BLOOD

Sensitive high-performance liquid chromatographic method for the determination of a benzonaphthazepine antipsychotic agent, SCH 39166, and its active metabolite, SCH 40853, in human plasma and its cross-validation with a gas chromatographic method. Lin CC, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):309-13

CHEMICAL SYNTHESIS

Noncompetitive NMDA antagonists: a novel synthesis of 1-phenyltetrahydro-3-benzazepines. Wünsch B, et al. **Arch Pharm (Weinheim)** 1997 Jul;330(7):211-4

Synthesis of racemic 6,7,8,9-tetrahydro-3-hydroxy-1H-1-benzazepine-2,5-diones as antagonists of N-methyl-d-aspartate (NMDA) and alpha-amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA) receptors. Guzikowski AP, et al. **J Med Chem** 1997 Jul 18;40(15):2424-9

11C- and 76Br-labelled NNC 22-0010, selective dopamine D1 receptor radioligands for PET. Foged C, et al. **Nucl Med Biol** 1996 Aug;23(6):837-44

Fluorinated benzazepines: 1. Synthesis, radiosynthesis and biological evaluation of a series of substituted benzazepines as potential radiotracers for positron emission tomographic studies of dopamine D-1 receptors. Yang ZY, et al. **Nucl Med Biol** 1996 Aug;23(6):793-805

CHEMISTRY

Analogs of 3-hydroxy-1H-1-benzazepine-2,5-dione: structure-activity relationship at N-methyl-D-aspartate receptor glycine sites. Guzikowski AP, et al. **J Med Chem** 1996 Nov 8;39(23):4643-53

DIAGNOSTIC USE

Synthesis and autoradiographic localization of the dopamine D-1 agonists [11C]SKF 75670 and [11C]SKF 82957 as potential PET radioligands. DaSilva JN, et al. **Appl Radiat Isot** 1996 Mar;47(3):279-84

Is TISCH a suitable tracer for in vivo study of modifications of the dopamine D-1 receptor? Pellevoisin C, et al. **Nucl Med Biol** 1996 Jan;23(1):75-8

ECONOMICS

Clinical and economic effects of replacing enalapril with benazepril in hypertensive patients. Briscoe TA, et al. **Am J Health Syst Pharm** 1996 Sep 15;53(18):2191-3

PHARMACOKINETICS

A comparison in young and elderly subjects of the pharmacokinetics and pharmacodynamics of single and multiple doses of benazepril. Macdonald NJ, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):201-4

The effects of age on the pharmacokinetics and pharmacodynamics of single oral doses of benazepril and enalapril. Macdonald NJ, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):205-9

Pharmacokinetics and disposition of L-692,429. A novel nonpeptidyl growth hormone secretagogue in preclinical species. Leung KH, et al. **Drug Metab Dispos** 1996 Jul; 24(7):753-60

Pharmacokinetic screening for the selection of new drug discovery candidates is greatly enhanced through the use of liquid chromatography-atmospheric pressure ionization

tandem mass spectrometry. Bryant MS, et al. **J Chromatogr A** 1997 Aug 8;777(1):61–6

Fluorinated benzazepines: I. Synthesis, radiosynthesis and biological evaluation of a series of substituted benzazepines as potential radiotracers for positron emission tomographic studies of dopamine D–1 receptors. Yang ZY, et al. **Nucl Med Biol** 1996 Aug;23(6):793–805

PHARMACOLOGY

Role of zatebradine and propranolol in attenuation of tachycardia produced by dobutamine in pigs. Neustein SM, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):849–52

Variation in effects of Cs+, UL–FS–49, and ZD–7288 within sinoatrial node. Nikmaram MR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2782–92

Noncompetitive NMDA antagonists: a novel synthesis of 1–phenyltetrahydro–3–benzazepines. Wünsch B, et al. **Arch Pharm (Weinheim)** 1997 Jul;330(7):211–4

Mode of action of bradycardic agent, S 16257, on ionic currents of rabbit sinoatrial node cells. Bois P, et al. **Br J Pharmacol** 1996 Jun;118(4):1051–7

Mechanisms of block of a human cloned potassium channel by the enantiomers of a new bradycardic agent: S–16257–2 and S–16260–2. Delpón E, et al. **Br J Pharmacol** 1996 Mar; 117(6):1293–301

Antagonism of striatal muscarinic receptors inhibiting dopamine D1 receptor–stimulated adenylyl cyclase activity by cholinoceptor antagonist used to treat Parkinson's disease. Olianas MC, et al. **Br J Pharmacol** 1996 Jun; 118(4):827–8

Dyskinesias and tolerance induced by chronic treatment with a D1 agonist administered in pulsatile or continuous mode do not correlate with changes of putaminal D1 receptors in drug–naive MPTP monkeys. Goulet M, et al. **Brain Res** 1996 May 6;719(1–2):129–37

Central vasopressin blockade enhances its peripheral release in response to peripheral osmotic stimulation in conscious rats. Liu HW, et al. **Brain Res** 1996 May 6;719(1–2):14–22

Selective full dopamine D1–like (SKF–82958) and D2–like (N–0923) agonist combination in the MPTP monkey model of hemiparkinsonism. Domino EF. **Brain Res Bull** 1997; 43(1):93–5

Effects of chronic ACE inhibition on sympathetic nerve traffic and baroreflex control of circulation in heart failure. Grassi G, et al. **Circulation** 1997 Aug 19;96(4):1173–9

Class III antiarrhythmic effects of zatebradine. Time–, state–, use–, and voltage–dependent block of hKv1.5 channels. Valenzuela C, et al. **Circulation** 1996 Aug 1;94(3):562–70

Amlodipine and benazeprilat differently affect the responses to endothelin–1 and bradykinin in porcine ciliary arteries: effects of a low and high dose combination. Lang MG, et al. **Curr Eye Res** 1997 Mar;16(3):208–13

Blockade of angiotensin converting enzyme but not of angiotensin AT1 receptors improves glucose tolerance. Chow L, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):77–83

Effects of zatebradine on ouabain–, two–stage coronary ligation– and epinephrine–induced ventricular tachyarrhythmias. Furukawa Y, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):203–10

Increases in inotropic state without change in heart rate: combined use of dobutamine and zatebradine in conscious dogs. Hettrick DA, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2–3):237–44

Chronic repeated cocaine administration increases dopamine D1 receptor–mediated signal transduction. Unterwald EM, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):31–5

Zatebradine inhibits tachycardia induced by bronchodilators without affecting respiratory resistance in dogs. Yamazaki K, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):21–7

Pharmacological profile of YM087, a novel nonpeptide dual vasopressin V1A and V2 receptor antagonist, in dogs. Yatsu T, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):225–30

Intranigral transplants of fetal ventral mesencephalic tissue attenuate D1–agonist–induced rotational behavior. Yurek DM. **Exp Neurol** 1997 Jan;143(1):1–9

Beta–adrenergic receptor and platelet inhibitory activities of a new series of trimetoquinol and related benzazepine analogs. Shams G, et al. **Gen Pharmacol** 1997 Feb; 28(2):323–30

Zatebradine slows ectopic ventricular rhythms in canine heart 24 hours after coronary artery ligation. Lasker SM, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):662–9

Effect of long–term treatment with selective vasopressin V1 and V2 receptor antagonist on the development of heart failure in rats. Nishikimi T, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):275–82

In vivo pharmacology of dual neutral endopeptidase/angiotensin–converting enzyme inhibitors. Seymour AA, et al. **J Cardiovasc Pharmacol** 1996 Nov; 28(5):672–8

Renal and depressor activities of inhibitors of neutral endopeptidase and angiotensin converting enzyme in monkeys infused with angiotensin II. Seymour AA, et al. **J Cardiovasc Pharmacol** 1996 Nov;28(5):651–8

Enhancement of pulsatile growth hormone secretion by continuous infusion of a growth hormone–releasing peptide mimetic, L–692,429, in older adults—a clinical research center study. Chapman IM, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2874–80

Effect of obesity and feeding on the growth hormone (GH) response to the GH secretagogue L–692,429 in young men. Kirk SE, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1154–9

Inhibition of L–692,429–stimulated rat growth hormone release by a weak substance P antagonist: L–756,867. Cheng K, et al. **J Endocrinol** 1997 Jan;152(1):155–8

Synthesis of racemic 6,7,8,9–tetrahydro–3–hydroxy–1H–1–benzazepine–2,5–diones as antagonists of N–methyl–d–aspartate (NMDA) and alpha–amino–3–hydroxy–5–methylisoxazole–4–propionic acid (AMPA) receptors. Guzikowski AP, et al. **J Med Chem** 1997 Jul 18;40(15):2424–9

Analogs of 3–hydroxy–1H–1–benzazepine–2,5–dione: structure–activity relationship at N–methyl–D–aspartate receptor glycine sites. Guzikowski AP, et al. **J Med Chem** 1996 Nov 8;39(23):4643–53

Time course and regional basis of Pb–induced changes in MK–801 binding: reversal by chronic treatment with the dopamine agonist apomorphine but not the D1 agonist SKF–82958. Cory–Slechta DA, et al. **J Neurochem** 1997 May;68(5):2012–23

Preferential vulnerability of nucleus accumbens dopamine binding sites to low–level lead exposure: time course of effects and interactions with chronic dopamine agonist treatments. Pokora MJ, et al. **J Neurochem** 1996 Oct; 67(4):1540–50

Comparison of the water diuretic activity of kappa receptor agonists and a vasopressin receptor antagonist in dogs. Brooks DP, et al. **J Pharmacol Exp Ther** 1997 Mar; 280(3):1176–83

Neurochemical effects of 3–[1–(phenylmethyl)–4–piperidinyl]–1–(2,3,4,5–tetrahydro–1H–1–b enzazepin–8–yl)–1–propanone fumarate (TAK–147), a novel acetylcholinesterase inhibitor, in rats. Hirai K, et al. **J Pharmacol Exp Ther** 1997 Mar; 280(3):1261–9

Effects of prolonged blockade of the renin angiotensin system on striated muscle microcirculation of spontaneously hypertensive rats. Scheidegger KJ, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1276–81

Pharmacological profile of YM087, a novel potent nonpeptide vasopressin V1A and V2 receptor antagonist, in vitro and in vivo. Tahara A, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):301–8

The full D1 dopamine receptor agonist SKF–82958 induces neuropeptide mRNA in the normosensitive striatum of rats: regulation of D1/D2 interactions by muscarinic receptors. Wang JQ, et al. **J Pharmacol Exp Ther** 1997 May; 281(2):972–82

Biphasic effects of D3–receptor agonists, 7–OH–DPAT and PD128907, on the D1–receptor agonist–induced hyperactivity in mice. Mori T, et al. **Jpn J Pharmacol** 1997 Mar;73(3):251–4

In vitro macro– and microautoradiographic localization of V1 and V2 receptors in the rat kidney using OPC–21268 and OPC–31260. Mimura Y, et al. **Nephron** 1997; 76(3):331–6

Scopolamine augments C–FOS and ZIF/268 messenger RNA expression induced by the full D(1) dopamine receptor agonist SKF–82958 in the intact rat striatum. Wang JQ, et al. **Neuroscience** 1996 Jun;72(3):601–16

11C– and 76Br–labelled NNC 22–0010, selective dopamine D1 receptor radioligands for PET. Foged C, et al. **Nucl Med Biol** 1996 Aug;23(6):837–44

Synthesis and in vivo testing of a potential aquaretic agent. Kunick C, et al. **Pharmazie** 1996 Aug;51(8):601–2

Self–administration of D1 receptor agonists by squirrel monkeys. Grech DM, et al. **Psychopharmacology (Berl)** 1996 May;125(2):97–104

Self–administration of the D1 agonist SKF 82958 is mediated by D1, not D2, receptors. Self DW, et al. **Psychopharmacology (Berl)** 1996 Feb;123(4):303–6

DAD1– and DAD2–like agonist effects on motor activity of C57 mice: differences compared to rats. Halberda JP, et al. **Synapse** 1997 May;26(1):81–92

[Effect of a new bradycardic substance on the isolated rabbit heart] Granetzny A, et al. **Z Kardiol** 1996 Dec; 85(12):953–60 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Clinical and economic effects of replacing enalapril with benazepril in hypertensive patients. Briscoe TA, et al. **Am J Health Syst Pharm** 1996 Sep 15;53(18):2191–3

Salt sensitivity of hypertension and responses to angiotensin converting enzyme inhibition with benazepril. Moore TJ, et al. **Am J Hypertens** 1996 Jan;9(1):54–60

Effects of benazepril and nicardipine on microalbuminuria in normotensive and hypertensive patients with diabetes. De Cesaris R, et al. **Clin Pharmacol Ther** 1996 Oct; 60(4):472–8

Treatment of patients with essential hypertension: amlodipine 5 mg/benazepril 20 mg compared with amlodipine 5 mg, benazepril 20 mg, and placebo. Kuschnir E, et al. **Clin Ther** 1996 Nov–Dec;18(6):1213–24

Fixed combination of benazepril and low–dose amlodipine in the treatment of mild to moderate essential hypertension: evaluation by 24–hour noninvasive ambulatory blood pressure monitoring. Fogari R, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):176–81

Acute aquaresis by the nonpeptide arginine vasopressin (AVP) antagonist OPC–31260 improves hyponatremia in patients with syndrome of inappropriate secretion of antidiuretic hormone (SIADH). Saito T, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1054–7

Efficacy of monotherapy with benazepril, an angiotensin converting enzyme inhibitor, in dogs with naturally acquired chronic mitral insufficiency. Kitagawa H, et al. **J Vet Med Sci** 1997 Jul;59(7):513–20

Antihypertensive activity and renal effects of benazepril in humans. Tramonti G, et al. **Kidney Int Suppl** 1996 Jun; 55:S107–8

SIADH and other hyponatremic disorders: diagnosis and therapeutic problems. Saito T. **Nippon Jinzo Gakkai Shi** 1996 Oct;38(10):429–34 (22 ref.)

[Reduced progression, increased mortality in chronic renal disease after treatment with the angiotensin–converting enzyme inhibitor benazepril] Pedersen EB. **Ugeskr Laeger** 1996 Oct 7;158(41):5798–9 **(Dan)**

[Efficacy of benazepril monotherapy in moderate essential hypertension studied by automatic ambulatory blood pressure monitoring] Páll D, et al. **Orv Hetil** 1996 Sep 8; 137(36):1973–8 (Eng. Abstr.) **(Hun)**

[Experience with benazepril, a long–acting ACE inhibitor, in the management of diabetic hypertension] Winkler G, et al. **Orv Hetil** 1997 Jul 6;138(27):1737–42 (27 ref.) (Eng. Abstr.) **(Hun)**

[Influence of angiotensin I converting enzyme inhibitors on selected parameters of zinc metabolism] Pęczkowska M. **Pol Arch Med Wewn** 1996 Jul;96(1):32–8 (Eng. Abstr.) **(Pol)**

BENZBROMARONE

DIAGNOSTIC USE

Uric acid transport in fanconi syndrome with marked renal hypouricemia: analysis using pyrazinamide and benzbromarone [letter] Moriwaki Y, et al. **Nephron** 1996; 74(2):452–3

THERAPEUTIC USE

Enhancement of anticoagulant action by warfarin–benzbromarone interaction. Shimodaira H, et al. **J Clin Pharmacol** 1996 Feb;36(2):168–74

BENZENE

[Urine level of trans, trans–muconic acid used as an index of internal dose of exposure to benzene] Liu L, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):148–50 (Eng. Abstr.) **(Chi)**

ADMINISTRATION & DOSAGE

Hematopoietic effects of benzene inhalation assessed by long–term bone marrow culture. Abraham NG. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1277–82

ADVERSE EFFECTS

Benzene and blood: one hundred years of evidence [editorial; comment] Landrigan PJ. **Am J Ind Med** 1996 Mar; 29(3):225–6. Comment on: Am J Ind Med 1996 Mar;29(3):227–35. Comment on: Am J Ind Med 1996 Mar;29(3):236–46. Comment on: Am J Ind Med 1996 Mar;29(3):247–57.

Genotoxic effects in workers exposed to low levels of benzene from gasoline. Nilsson RI, et al. **Am J Ind Med** 1996 Sep;30(3):317–24

Hematotoxocity among Chinese workers heavily exposed to benzene [see comments] Rothman N, et al. **Am J Ind Med** 1996 Mar;29(3):236–46. Comment in: Am J Ind Med 1996 Mar;29(3):225–6.

Review of epidemiologic evidence on benzene and lymphatic and hematopoietic cancers. Savitz DA, et al. **Am J Ind Med** 1997 Mar;31(3):287–95 (74 ref.)

Risk of low red or white blood cell count related to estimated benzene exposure in a rubberworker cohort (1940–1975) [see comments] Ward E, et al. **Am J Ind Med** 1996 Mar; 29(3):247–57. Comment in: Am J Ind Med 1996 Mar;29(3):225–6.

A cohort study of cancer among benzene–exposed workers in China: overall results [see comments] Yin SN, et al. **Am J Ind Med** 1996 Mar;29(3):227–35. Comment in: Am J Ind Med 1996 Mar;29(3):225–6.

t(9;13)(q34;q12) chromosomal translocation persisting 4 years post autologous bone marrow transplantation for secondary AML despite morphological remission. Mahendra P, et al. **Clin Lab Haematol** 1996 Jun;18(2):121–2

Biological monitoring of workers exposed to emissions from petroleum plants. Anderson D, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:609–13

Measurement of DNA repair deficiency in workers exposed to benzene. Hallberg LM, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:529–34

Benzene exposure, assessed by urinary trans,trans–muconic acid, in urban children with elevated blood lead levels. Weaver VM, et al. **Environ Health Perspect** 1996 Mar; 104(3):318–23

Cancer mortality among workers with benzene exposure. Ireland B, et al. **Epidemiology** 1997 May;8(3):318–20

Genotoxic effects in workers exposed to benzene: with special reference to exposure biomarkers and confounding factors. Bogadi–Sare A, et al. **Ind Health** 1997 Jul; 35(3):367–73

Aplastic anemia in a young coke plant worker. Molinini R,

et al. **Int Arch Occup Environ Health** 1997;69(2):144–6

Benzene and the dose–related incidence of hematologic neoplasms in China. Chinese Academy of Preventive Medicine––National Cancer Institute Benzene Study Group. Hayes RB, et al. **J Natl Cancer Inst** 1997 Jul 16; 89(14):1065–71

Evaluation of lymphopenia among workers with low–level benzene exposure and the utility of routine data collection. Collins JJ, et al. **J Occup Environ Med** 1997 Mar; 39(3):232–7

Chronic myeloid leukaemia and occupational exposure to benzene in a Royal Navy submariner. Dean MR. **J R Nav Med Serv** 1996 Spring;82(1):28–33

Relationships between smoking habits, smoking–associated hematological changes, and urinary benzene metabolites. Haufroid V, et al. **J Toxicol Environ Health** 1997 Sep; 52(1):1–17

Detection of DNA damage in human lymphocytes by alkaline single cell gel electrophoresis after exposure to benzene or benzene metabolites. Andreoli C, et al. **Mutat Res** 1997 Jun 9;377(1):95–104

Hairy cell leukaemia and occupational exposure to benzene. Clavel J, et al. **Occup Environ Med** 1996 Aug;53(8):533–9

Retrospective estimation of exposure to benzene in a leukaemia case–control study of petroleum marketing and distribution workers in the United Kingdom. Lewis SJ, et al. **Occup Environ Med** 1997 Mar;54(3):167–75

A case–control study to investigate the risk of leukaemia associated with exposure to benzene in petroleum marketing and distribution workers in the United Kingdom. Rushton L, et al. **Occup Environ Med** 1997 Mar; 54(3):152–66

Determination of leukemogenic benzene exposure concentrations: refined analyses of the Pliofilm cohort. Schnatter AR, et al. **Risk Anal** 1996 Dec;16(6):833–40

Red blood cell glycerol lysis and hematologic effects in occupational benzene exposure. Bogadi–Sare A, et al. **Toxicol Ind Health** 1997 Jul–Aug;13(4):485–94

[Investigation of health status in workers exposed to low–level benzene] Zhang B. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):164–6 (Eng. Abstr.) **(Chi)**

ANALOGS & DERIVATIVES see BENZENE DERIVATIVES

ANALYSIS

A study of the efficiency of polybutadiene–coated zirconia as a reversed–phase chromatographic support. Li J, et al. **Anal Chem** 1997 Jun 1;69(11):2193–201

Scientific basis for an air quality standard on benzene. Tordoir WF. **Cent Eur J Public Health** 1996;4 Suppl:46–7

S–phenylcysteine in albumin as a benzene biomarker. Bechtold WE, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1147–9

Suitability of S–phenyl mercapturic acid and trans–trans–muconic acid as biomarkers for exposure to low concentrations of benzene. Boogaard PJ, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1151–7

On–line monitoring of benzene air concentrations while driving in traffic by means of isotopic dilution gas chromatography/mass spectrometry. Davoli E, et al. **Int Arch Occup Environ Health** 1996;68(4):262–7

Biological monitoring of vehicle mechanics and other workers exposed to low concentrations of benzene. Hotz P, et al. **Int Arch Occup Environ Health** 1997;70(1):29–40

Blood benzene concentrations in workers exposed to oxygenated fuel in Fairbanks, Alaska. Moolenaar RL, et al. **Int Arch Occup Environ Health** 1997;69(2):139–43

Investigation of a cluster of ten cases of Hodgkin's disease in an occupational setting. Swaen GM, et al. **Int Arch Occup Environ Health** 1996;68(4):224–8

Evaluation of environmental levels of aromatic hydrocarbons in gasoline service stations by gas chromatography. Periago JF, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):263–8

Retrospective estimation of exposure to benzene in a leukaemia case–control study of petroleum marketing and distribution workers in the United Kingdom. Lewis SJ, et al. **Occup Environ Med** 1997 Mar;54(3):167–75

On the origin of benzene, toluene, ethylbenzene, and the xylenes in virgin olive oil––further results. Biedermann M, et al. **Z Lebensm Unters Forsch** 1996 Sep;203(3):224–9

CHEMISTRY

Anaerobic metabolism of aromatic compounds. Heider J, et al. **Eur J Biochem** 1997 Feb 1;243(3):577–96 (174 ref.)

Studies on pathways of ring opening of benzene in a Fenton system. Zhang Z, et al. **Free Radic Biol Med** 1995 Mar; 18(3):411–9

Molar enthalpy and molar volume of methylene and benzene homologues in reversed–phase liquid chromatography. McGuffin VL, et al. **J Chromatogr A** 1997 Feb 21; 762(1–2):35–46

Cation–pi interactions in aromatics of biological and medicinal interest: electrostatic potential surfaces as a useful qualitative guide. Mecozzi S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10566–71

METABOLISM

The role of CYP2E1 and 2B1 in metabolic activation of benzene derivatives. Gut I, et al. **Arch Toxicol** 1996; 71(1–2):45–56

Intramolecular isotope effects for benzylic hydroxylation of isomeric xylenes and 4,4'–dimethylbiphenyl by cytochrome P450: relationship between distance of methyl groups and masking of the intrinsic isotope effect. Iyer KR, et al. **Biochemistry** 1997 Jun 10;36(23):7136–43

Measurement of benzene oxide in the blood of rats following administration of benzene. Lindstrom AB, et al. **Carcinogenesis** 1997 Aug;18(8):1637–41

Friedel–Crafts alkylation of benzene and toluene with olefinic C6 hydrocarbons and esters. Black KD, et al. **Chem Phys Lipids** 1996 Jan 25;79(1):79–86

The Friedel–Crafts adducts of methyl oleate with benzene and toluene. Black KD, et al. **Chem Phys Lipids** 1996 Jan 25;79(1):87–94

Chemistry of muconaldehydes of possible relevance to the toxicology of benzene. Bleasdale C, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1201–9

Inhibition of human topoisomerase II in vitro by bioactive benzene metabolites. Frantz CE, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1319–23

Cytochromes P450 in benzene metabolism and involvement of their metabolites and reactive oxygen species in toxicity. Gut I, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1211–8

Species differences in the metabolism of benzene. Henderson RF. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1173–5 (12 ref.)

Inhibition of human DNA topoisomerase II by hydroquinone and p–benzoquinone, reactive metabolites of benzene. Hutt AM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1265–9

Impact of benzene metabolites on differentiation of bone marrow progenitor cells. Irons RD, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1247–50

p–Benzoquinone, a reactive metabolite of benzene, prevents the processing of pre–interleukins–1 alpha and –1 beta to active cytokines by inhibition of the processing enzymes, calpain, and interleukin–1 beta converting enzyme. Kalf GF, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1251–6

Mechanistic considerations in benzene physiological model development. Medinsky MA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1399–404 (39 ref.)

The use of protein adducts to investigate the disposition of reactive metabolites of benzene. Rappaport SM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1235–7

Cell–specific activation and detoxification of benzene metabolites in mouse and human bone marrow: identification of target cells and a potential role for modulation of apoptosis in benzene toxicity. Ross D, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1177–82

Phase II metabolism of benzene. Schrenk D, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1183–8

An overview of benzene metabolism. Snyder R, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1165–71 (52 ref.)

Reactive ring–opened aldehyde metabolites in benzene hematotoxicity. Witz G, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1195–9 (37 ref.)

Anaerobic metabolism of aromatic compounds. Heider J, et al. **Eur J Biochem** 1997 Feb 1;243(3):577–96 (174 ref.)

Anaerobic degradation of benzene in BTX mixtures dependent on sulfate reduction. Phelps CD, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):433–7

Studies on pathways of ring opening of benzene in a Fenton system. Zhang Z, et al. **Free Radic Biol Med** 1995 Mar; 18(3):411–9

trans,trans–muconic acid as a biomarker of non–occupational environmental exposure to benzene. Ruppert T, et al. **Int Arch Occup Environ Health** 1997;69(4):247–51

Randomization tests for assessing the equality of area under curves for studies using destructive sampling. Bailer AJ, et al. **J Appl Toxicol** 1996 Sep–Oct;16(5):391–5

Measurement of benzene in human breath associated with an environmental exposure. Yu R, et al. **J Expo Anal Environ Epidemiol** 1996 Jul–Sep;6(3):261–77

Induction of apoptosis by benzene metabolites in HL60 and CD34+ human bone marrow progenitor cells. Moran JL, et al. **Mol Pharmacol** 1996 Sep;50(3):610–5

Biomarkers of exposure to low concentrations of benzene: a field assessment [letter; comment] Johnson ES. **Occup Environ Med** 1997 Jan;54(1):68. Comment on: Occup Environ Med 1996 May;53(5):328–33.

A cluster of bacterial genes for anaerobic benzene ring biodegradation. Egland PG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6484–9

Inter–individual variability of benzene metabolism to trans,trans–muconic acid and its implications in the biological monitoring of occupational exposure. Gobba F, et al. **Sci Total Environ** 1997 Jun 20;199(1–2):41–8

Biological monitoring of exposure to benzene in the production of benzene and in a cokery. Kivistö H, et al. **Sci Total Environ** 1997 Jun 20;199(1–2):49–63

Benzene metabolism in the isolated perfused mouse liver. Hedli CC, et al. **Toxicol Appl Pharmacol** 1997 Sep; 146(1):60–8

Reduction of benzene metabolism and toxicity in mice that lack CYP2E1 expression. Valentine JL, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):205–13

PHARMACOKINETICS

Uptake and transformation of benzene and toluene by plant leaves. Ugrekhelidze D, et al. **Ecotoxicol Environ Saf** 1997 Jun;37(1):24–9

Population toxicokinetics of benzene. Bois FY, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1405–11

Phenylguanine found in urine after benzene exposure. Norpoth KH, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1159–63

Effect of environmental conditions on the penetration of benzene through human skin. Nakai JS, et al. **J Toxicol Environ Health** 1997 Aug 8;51(5):447–62

PHARMACOLOGY

Benzene–induced micronuclei in erythrocytes: an inhalation concentration–response study in B6C3F1 mice. Farris GM, et al. **Mutagenesis** 1996 Sep;11(5):455–62

Benzene–, catechol–, hydroquinone– and phenol–induced cell transformation, gene mutations, chromosome aberrations, aneuploidy, sister chromatid exchanges and unscheduled DNA synthesis in Syrian hamster embryo cells. Tsutsui T, et al. **Mutat Res** 1997 Jan 3;373(1):113–23

[The combined effect of ionizing radiation and benzene on immunoreactivity indices in the spleen and lymph nodes] Sharetskiĭ AN, et al. **Radiats Biol Radioecol** 1997 May–Jun; 37(3):387–94 (Eng. Abstr.) **(Rus)**

POISONING

Retrospective benzene and total hydrocarbon exposure assessment for a petroleum marketing and distribution worker epidemiology study. Armstrong TW, et al. **Am Ind Hyg Assoc J** 1996 Apr;57(4):333–43

Benzene poisoning, a risk factor for hematological malignancy, is associated with the NQO1 609C––>T mutation and rapid fractional excretion of chlorzoxazone. Rothman N, et al. **Cancer Res** 1997 Jul 15;57(14):2839–42

Indirect validation of benzene exposure assessment by association with benzene poisoning. Dosemeci M, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1343–7

Overview of benzene–induced aplastic anaemia. Smith MT. **Eur J Haematol Suppl** 1996;60:107–10 (48 ref.)

Symptoms, lung and liver function, blood counts, and genotoxic effects in coastal tanker crews. Nilsson R, et al. **Int Arch Occup Environ Health** 1997;69(6):392–8

TOXICITY

Benzene–induced bone marrow cell depression caused by inhibition of the conversion of pre–interleukins–1alpha and –1beta to active cytokines by hydroquinone, a biological reactive metabolite of benzene. Niculescu R, et al. **Adv Exp Med Biol** 1996;387:329–37 (30 ref.)

Mechanistic studies of benzene toxicity — implications for risk assessment. Smith MT. **Adv Exp Med Biol** 1996; 387:259–66 (47 ref.)

Influences of gender, development, pregnancy and ethanol consumption on the hematotoxicity of inhaled 10 ppm benzene. Corti M, et al. **Arch Toxicol** 1996;70(3–4):209–17

Molecular cytogenetic analysis of buccal cells and lymphocytes from benzene–exposed workers. Surrallés J, et al. **Carcinogenesis** 1997 Apr;18(4):817–23

Identification of quinol thioethers in bone marrow of hydroquinone/phenol–treated rats and mice and their potential role in benzene–mediated hematotoxicity. Bratton SB, et al. **Chem Res Toxicol** 1997 Aug;10(8):859–65

Benzene '95. Proceedings of an international conference on the toxicity, carcinogenesis, and epidemiology of benzene. Piscataway, New Jersey, June 17–20, 1995. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1121–441

Hematopoietic effects of benzene inhalation assessed by long–term bone marrow culture. Abraham NG. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1277–82

Benzene induces a dose–responsive increase in the frequency of micronucleated cells in rat Zymbal glands. Angelosanto FA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1331–6

S–phenylcysteine in albumin as a benzene biomarker. Bechtold WE, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1147–9

Does benzene cause multiple myeloma? An analysis of the published case–control literature. Bezabeh S, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1393–8 (28 ref.)

Chemistry of muconaldehydes of possible relevance to the toxicology of benzene. Bleasdale C, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1201–9

Investigation of the DNA adducts formed in B6C3F1 mice treated with benzene: implications for molecular dosimetry. Bodell WJ, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1189–93

Population toxicokinetics of benzene. Bois FY, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1405–11

Suitability of S–phenyl mercapturic acid and trans–trans–muconic acid as biomarkers for exposure to low concentrations of benzene. Boogaard PJ, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1151–7

Reassessing benzene risks using internal doses and Monte–Carlo uncertainty analysis. Cox LA Jr. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1413–29

Risk of benzene–induced leukemia predicted from the Pliofilm cohort. Crump KS. **Environ Health Perspect** 1996

Dec;104 Suppl 6:1437–41
Carcinogenic potential of benzene and toluene when evaluated using cyclin–dependent kinase activation and p53–DNA binding. Dees C, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1289–92
Effects of low concentrations of benzene on mouse hematopoietic cells in vivo: a preliminary report. Farris GM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1275–6
Benzene–induced chromosome aberrations: a follow–up study. Forni A. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1309–12
Inhibition of human topoisomerase II in vitro by bioactive benzene metabolites. Frantz CE, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1319–23
Geographical distribution of benzene in air in northwestern Italy and personal exposure. Gilli G, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1137–40
Cytochromes P450 in benzene metabolism and involvement of their metabolites and reactive oxygen species in toxicity. Gut I, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1211–8
Mortality among benzene–exposed workers in China. Hayes RB, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1349–52
Induction of granulocytic differentiation in a mouse model by benzene and hydroquinone. Hazel BA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1257–64
Species differences in the metabolism of benzene. Henderson RF. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1173–5 (12 ref.)
Inhibition of human DNA topoisomerase II by hydroquinone and p–benzoquinone, reactive metabolites of benzene. Hutt AM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1265–9
Impact of benzene metabolites on differentiation of bone marrow progenitor cells. Irons RD, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1247–50
Modeling marrow damage from response data: evolution from radiation biology to benzene toxicity. Jones DT, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1293–301
p–Benzoquinone, a reactive metabolite of benzene, prevents the processing of pre–interleukins–1 alpha and –1 beta to active cytokines by inhibition of the processing enzymes, calpain, and interleukin–1 beta converting enzyme. Kalf GF, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1251–6
Role of nitric oxide in hematosuppression and benzene–induced toxicity. Laskin DL, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1283–7
Tissue distribution of DNA adducts and their persistence in blood of mice exposed to benzene. Li G, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1337–8
Clinical features of hematopoietic malignancies and related disorders among benzene–exposed workers in China. Benzene Study Group. Linet MS, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1353–64 (116 ref.)
Mechanistic considerations in benzene physiological model development. Medinsky MA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1399–404 (39 ref.)
Phenylguanine found in urine after benzene exposure. Norpoth KH, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1159–63
Personal reflections on 50 years of study of benzene toxicology. Parke DV. **Environ Health Perspect** 1996 Dec; 104 Suppl 6:1123–8
Leukemia risk associated with benzene exposure in the Pliofilm cohort. Paxton MB. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1431–6
Leukemia mortality by cell type in petroleum workers with potential exposure to benzene. Raabe GK, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1381–92
The use of protein adducts to investigate the disposition of reactive metabolites of benzene. Rappaport SM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1235–7
Cell–specific activation and detoxification of benzene metabolites in mouse and human bone marrow: identification of target cells and a potential role for modulation of apoptosis in benzene toxicity. Ross D, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1177–82
An epidemiologic study of early biologic effects of benzene in Chinese workers. Rothman N, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1365–70
Benzene exposure in the petroleum distribution industry associated with leukemia in the United Kingdom: overview of the methodology of a case–control study. Rushton L. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1371–4
The relationship between low–level benzene exposure and leukemia in Canadian petroleum distribution workers. Schnatter AR, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1375–9
Phase II metabolism of benzene. Schrenk D, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1183–8
The mechanism of benzene–induced leukemia: a hypothesis and speculations on the causes of leukemia. Smith MT. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1219–25 (63 ref.)
An overview of benzene metabolism. Snyder R, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1165–71 (52 ref.)
Analysis of target cell susceptibility as a basis for the development of a chemoprotective strategy against benzene–induced hematotoxicities. Trush MA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1227–34 (58 ref.)
Cytogenetic findings on shoe workers exposed long–term to benzene. Tunca BT, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1313–7
Environmental exposure to benzene: an update. Wallace L. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1129–36 (45 ref.)
Biomarkers of environmental benzene exposure. Weisel C, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1141–6
Reactive ring–opened aldehyde metabolites in benzene hematotoxicity. Witz G, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1195–9 (37 ref.)
An expanded cohort study of cancer among benzene–exposed workers in China. Benzene Study Group. Yin SN, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1339–41
Interphase cytogenetics of workers exposed to benzene. Zhang L, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1325–9
Mutagenic response to benzene and tris(2,3–dibromopropyl)–phosphate in the lambda lacI transgenic mouse mutation assay: a standardized approach to in vivo mutation analysis. Provost GS, et al. **Environ Mol Mutagen** 1996;28(4):342–7
The effects of benzene and other leukaemogenic agents on haematopoietic stem and progenitor cell differentiation. Irons RD, et al. **Eur J Haematol Suppl** 1996;60:119–24 (40 ref.)
Metabolic basis of benzene toxicity. Ross D. **Eur J Haematol Suppl** 1996;60:111–8 (82 ref.)
Benzene–induced hematotoxicity and bone marrow compensation in B6C3F1 mice. Farris GM, et al. **Fundam Appl Toxicol** 1997 Apr;36(2):119–29
Effect of a single administration of benzene, toluene or m–xylene on carboxyhaemoglobin elevation and metabolism of dichloromethane in rats. Kim SK, et al. **J Appl Toxicol** 1996 Sep–Oct;16(5):437–44
Cytotoxicity and DNA strand breaks induced by benzene and its metabolites in Chinese hamster ovary cells. Sze CC, et al. **J Appl Toxicol** 1996 May–Jun;16(3):259–64
Potential biomarkers of benzene exposure. Medeiros AM, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):519–39 (73 ref.)
Report on the workshop entitled: "Modeling chemically induced leukemia—implications for benzene risk assessment". Smith MT, et al. **Leuk Res** 1997 May; 21(5):361–74
The study of DNA oxidative damage in benzene–exposed workers. Liu L, et al. **Mutat Res** 1996 Oct 1; 370(3–4):145–50
Reduction of benzene metabolism and toxicity in mice that lack CYP2E1 expression. Valentine JL, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):205–13
Effects of benzene on splenic, thymic, and femoral lymphocytes in mice. Farris GM, et al. **Toxicology** 1997 Mar 28;118(2–3):137–48
Leukemia and cumulative exposure to butadiene, styrene and benzene among workers in the synthetic rubber industry. Macaluso M, et al. **Toxicology** 1996 Oct 28; 113(1–3):190–202
Immunotoxicological effects of benzene inhalation in male Sprague–Dawley rats. Robinson SN, et al. **Toxicology** 1997 May 16;119(3):227–37
Hematological alterations in rats from xylene and benzene. d'Azevedo PA, et al. **Vet Hum Toxicol** 1996 Oct; 38(5):340–4
[Environmental exposure and blood levels of benzene in gas station attendants. Comparison with the general population] Brugnone F, et al. **Med Lav** 1997 Mar–Apr;88(2):131–47 (Eng. Abstr.) **(Ita)**
[The behavior of rat progeny after prenatal benzene exposure in an iron–deficiency state of the mother] Senichenkova IN, et al. **Fiziol Zh Im I M Sechenova** 1996 May–Jun; 82(5–6):95–101 (Eng. Abstr.) **(Rus)**

BENZENE DERIVATIVES

Determination of dimethylhippuric acid isomers in urine by high–performance liquid chromatography. Ståhlbom B, et al. **Int Arch Occup Environ Health** 1997;69(2):147–50

ADVERSE EFFECTS

Detection of DNA damage in human lymphocytes by alkaline single cell gel electrophoresis after exposure to benzene or benzene metabolites. Andreoli C, et al. **Mutat Res** 1997 Jun 9;377(1):95–104
Dangerous and cancer–causing properties of products and chemicals in the oil–refining and petrochemical industry—Part XXII: Health hazards from exposure to gasoline containing methyl tertiary butyl ether: study of New Jersey residents. Mehlman MA. **Toxicol Ind Health** 1996 Sep–Oct;12(5):613–27 (56 ref.)
[A case of acute benzene poisoning causing pneumonia] Kravchenko OP. **Klin Med (Mosk)** 1996;74(5):58–9 **(Rus)**

ANALYSIS

Fiber–optic–based biomonitoring of benzene derivatives by recombinant E. coli bearing luciferase gene–fused TOL–plasmid immobilized on the fiber–optic end. Ikariyama Y, et al. **Anal Chem** 1997 Jul 1;69(13):2600–5
Screening of volatile organic compounds in river sediment. Kawata K, et al. **Bull Environ Contam Toxicol** 1997 Jun; 58(6):893–900
Purgeable aromatic hydrocarbons in water and sediment from the river Morava catchment (Slovakia). Al–Rekabi H, et al. **Bull Environ Contam Toxicol** 1996 Jan;56(1):90–7
Phosphated surfactants as pseudostationary phase for micellar electrokinetic chromatography: separation of polycyclic aromatic hydrocarbons. Akbay C, et al. **Electrophoresis** 1997 Feb;18(2):253–9
The effect of cyclodextrin modifiers on electrophoretic separation of aromatic hydrocarbons. Nguyen AL, et al. **Electrophoresis** 1997 Feb;18(2):247–52
Urinary excretion of dimethylhippuric acids in humans after exposure to trimethylbenzenes. Järnberg J, et al. **Int Arch Occup Environ Health** 1997;69(6):491–7
Potential biomarkers of benzene exposure. Medeiros AM, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):519–39 (73 ref.)
On the origin of benzene, toluene, ethylbenzene, and the xylenes in virgin olive oil—further results. Biedermann M, et al. **Z Lebensm Unters Forsch** 1996 Sep;203(3):224–9

BLOOD

Toluene, 1–butanol, ethylbenzene and xylene from Sarstedt Monovette serum gel blood collection tubes. Dyne D, et al. **Ann Clin Biochem** 1996 Jul;33 (Pt 4):355–6

CHEMICAL SYNTHESIS

[The technology for manufacturing antiparasitic preparations. 8. The preparation rilanid and its use for treating fascioliasis and intestinal nematodiases] Mikhailitsyn FS, et al. **Med Parazitol (Mosk)** 1997 Jan–Mar;(1):28–30 (Eng. Abstr.) **(Rus)**
[The technology for manufacturing antiparasitic preparations. 7. Preparation G–1460 and its use for the treatment of monieziasis and intestinal nematodiases] Petrov IuF, et al. **Med Parazitol (Mosk)** 1996 Oct–Dec;(4):40–2 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Estimating diffusion coefficients for alkylbenzenes and alkylphenones in aqueous mixtures with acetonitrile and methanol. Li J, et al. **Anal Chem** 1997 Jul 1;69(13):2550–3
Accuracy of empirical correlations for estimating diffusion coefficients in aqueous organic mixtures. Li J, et al. **Anal Chem** 1997 Jul 1;69(13):2530–6
Chemiluminescence from organic molecules by the action of potassium permanganate. Mitsana–Papazoglou A, et al. **Biomed Chromatogr** 1997 Mar–Apr;11(2):67–8
Siderophore activity of chemically synthesized dihydroxybenzoyl derivatives of spermidines and cystamide. Reissbrodt R, et al. **Biometals** 1997 Apr; 10(2):95–103
Reaction of cytochrome P450 with cumene hydroperoxide: ESR spin–trapping evidence for the homolytic scission of the peroxide O–O bond by ferric cytochrome P450 1A2. Barr DP, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):318–25
Covalent binding to DNA in vitro of 2',3'–oxides derived from allylbenzene analogs. Luo G, et al. **Drug Metab Dispos** 1996 Sep;24(9):1020–7
Effect of skeleton size on the performance of octadecylsilylated continuous porous silica columns in reversed–phase liquid chromatography. Minakuchi H, et al. **J Chromatogr A** 1997 Feb 21;762(1–2):135–46
Cation–pi interactions in aromatics of biological and medicinal interest: electrostatic potential surfaces as a useful qualitative guide. Mecozzi S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10566–71
The use of differential transverse relaxation to detect mobile species in solids. Gerstein BC, et al. **Solid State Nucl Magn Reson** 1996 Feb;6(1):63–71

METABOLISM

Analysis of cumene (isopropylbenzene) degradation genes from Pseudomonas fluorescens IP01. Habe H, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4471–7
Cloning, sequencing, and expression of isopropylbenzene degradation genes from Pseudomonas sp. strain JR1: identification of isopropylbenzene dioxygenase that mediates trichloroethene oxidation. Pflugmacher U, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3967–77
Degradative capacities and 16S rRNA–targeted whole–cell hybridization of sulfate–reducing bacteria in an anaerobic enrichment culture utilizing alkylbenzenes from crude oil. Rabus R, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3605–13
The role of CYP2E1 and 2B1 in metabolic activation of benzene derivatives. Gut I, et al. **Arch Toxicol** 1996; 71(1–2):45–56
Effects of benzene metabolite treatment on granulocytic differentiation and DNA adduct formation in HL–60 cells. Hedli CC, et al. **Arch Toxicol** 1996;70(3–4):135–44
Partial purification and reconstitution of the tricarboxylate carrier from eel liver mitochondria. Zara V, et al. **Biochem Mol Biol Int** 1996 May;39(2):369–75
The involvement of cytochrome P450 peroxidase in the

metabolic bioactivation of cumene hydroperoxide by isolated rat hepatocytes. Anari MR, et al. **Chem Res Toxicol** 1996 Sep;9(6):924–31

Cytochrome P450-catalyzed oxidation of halobenzene derivatives. Rietjens IM, et al. **Chem Res Toxicol** 1997 Jun; 10(6):629–35 (53 ref.)

Propranolol hydroxylation and N-desisopropylation by cytochrome P4502D6: studies using the yeast-expressed enzyme and NADPH/O2 and cumene hydroperoxide-supported reactions. Bichara N, et al. **Drug Metab Dispos** 1996 Jan;24(1):112–8

Measurement and validation of kinetic parameter values for prediction of biodegradation rates in sewage treatment. Blok J, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):217–27

Internal lethal concentrations of halobenzenes with fish (Gambusia affinis). Chaisuksant Y, et al. **Ecotoxicol Environ Saf** 1997 Jun;37(1):66–75

Structure-activity relationships in the mutagenicity and cytotoxicity of putative metabolites and related analogs of benzene derived from the valence tautomers benzene oxide and oxepin. Stark AA, et al. **Environ Mol Mutagen** 1996; 28(3):284–93

Contaminated environments in the subsurface and bioremediation: organic contaminants. Holliger C, et al. **FEMS Microbiol Rev** 1997 Jul;20(3–4):517–23 (63 ref.)

Metabolic engineering: prospects for crop improvement through the genetic manipulation of phenylpropanoid biosynthesis and defense responses--a review. Dixon RA, et al. **Gene** 1996 Nov 7;179(1):61–71 (80 ref.)

Initial reactions in anaerobic ethylbenzene oxidation by a denitrifying bacterium, strain EB1. Ball HA, et al. **J Bacteriol** 1996 Oct;178(19):5755–61

PHARMACOKINETICS

Uptake and decay of volatile organic compounds at environmental concentrations: application of a four-compartment model to a chamber study of five human subjects. Wallace LA, et al. **J Expo Anal Environ Epidemiol** 1997 Apr–Jun;7(2):141–63

Inhalation toxicokinetics of 1,2,4-trimethylbenzene in volunteers: comparison between exposure to white spirit and 1,2,4-trimethylbenzene alone. Järnberg J, et al. **Sci Total Environ** 1997 Jun 20;199(1–2):65–71

Biological monitoring of experimental human exposure to trimethylbenzene. Kostrzewski P, et al. **Sci Total Environ** 1997 Jun 20;199(1–2):73–81

Toxicokinetics of inhaled trimethylbenzenes in man. Järnberg J, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):281–8

Physiologically based pharmacokinetic modeling of a ternary mixture of alkyl benzenes in rats and humans. Tardif R, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):120–34

Biotransformation of diethenylbenzenes, V. Identification of urinary metabolites of 1,2-diethenylbenzene in the rat. Linhart I, et al. **Xenobiotica** 1996 Dec;26(12):1263–72

PHARMACOLOGY

Anesthetic and convulsant properties of aromatic compounds and cycloalkanes: implications for mechanisms of narcosis. Fang Z, et al. **Anesth Analg** 1996 Nov;83(5):1097–104

Time course for the modulation of hepatic cytochrome P450 after administration of ethylbenzene and its correlation with toluene metabolism. Yuan W, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):55–63

Ethylbenzene modulates the expression of different cytochrome P-450 isozymes by discrete multistep processes. Yuan W, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):361–72

Analytical and numerical techniques for the evaluation of free radical damage in cultured cells using scanning laser microscopy. Sawada GA, et al. **Cytometry** 1996 Nov 1; 25(3):254–62

Continuous monitoring of hydroperoxide-induced peroxidation in human erythrocytes by low-level chemiluminescence. Yeşilkaya A, et al. **Int J Clin Lab Res** 1996;26(1):60–8

Effect of oxidative stress, produced by cumene hydroperoxide, on the various steps of protein synthesis. Modifications of elongation factor-2. Ayala A, et al. **J Biol Chem** 1996 Sep 20;271(38):23105–10

Induction of apoptosis by benzene metabolites in HL60 and CD34+ human bone marrow progenitor cells. Moran JL, et al. **Mol Pharmacol** 1996 Sep;50(3):610–5

Mössbauer and electron paramagnetic resonance studies of chloroperoxidase following mechanism-based inactivation with allylbenzene. Debrunner PG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12791–8

THERAPEUTIC USE

[The technology for manufacturing antiparasitic preparations. 8. The preparation rilanid and its use for treating fascioliasis and intestinal nematodiases] Mikhailitsyn FS, et al. **Med Parazitol (Mosk)** 1997 Jan–Mar;(1):28–30 (Eng. Abstr.) **(Rus)**

TOXICITY

Ultrastructural consequences of radical damage before and after differentiation of neuroblastoma B-104 cells. O'Neil BJ, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):75–89

Effects of polyhalogenated aromatic hydrocarbons and related contaminants on common tern reproduction: integration of biological, biochemical, and chemical data. Murk AJ, et al. **Arch Environ Contam Toxicol** 1996 Jul; 31(1):128–40

Effects of benzene metabolite treatment on granulocytic differentiation and DNA adduct formation in HL-60 cells. Hedli CC, et al. **Arch Toxicol** 1996;70(3–4):135–44

Quantitation of alpha(2)-microglobulin after administration of structurally divergent chemical compounds. Hildebrand H, et al. **Arch Toxicol** 1997;71(6):351–9

Peroxidase deficiency of nickel-transformed hamster cells correlates with their increased resistance to cytotoxicity of peroxides. Dowjat WK, et al. **Biometals** 1996 Apr; 9(2):151–6

Toxicity QSAR of substituted benzenes to yeast Saccharomyces cerevisiae. Liao YY, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):460–6

Analysis and prediction of structure-reactive toxicity relationships of substituted aromatic compounds. Liu ZT, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):421–5

Internal lethal concentrations of halobenzenes with fish (Gambusia affinis). Chaisuksant Y, et al. **Ecotoxicol Environ Saf** 1997 Jun;37(1):66–75

Structure-activity relationships in the mutagenicity and cytotoxicity of putative metabolites and related analogs of benzene derived from the valence tautomers benzene oxide and oxepin. Stark AA, et al. **Environ Mol Mutagen** 1996; 28(3):284–93

Studies on the mutagenicity of mild gasification products of coal and their subfractions by the Salmonella/microsomal assay. Zhong BZ, et al. **Environ Res** 1997 Jan;72(1):32–44

Benzene metabolites enhance reactive oxygen species generation in HL60 human leukemia cells. Shen Y, et al. **Hum Exp Toxicol** 1996 May;15(5):422–7

Retardation of the age-related increase in spontaneous cortical spike-wave discharges (SWD) in rats after a 28-day inhalation (SWD) in rats after a 28-day inhalation exposure to an industrial solvent, pseudocumene (1,2,4-trimethylbenzene). Gralewicz S, et al. **Int J Occup Med Environ Health** 1997;10(2):213–22

Toxic effects of acute inhalation exposure to 1,2,4-trimethylbenzene (pseudocumene) in experimental animals. Korsak Z, et al. **Int J Occup Med Environ Health** 1995;8(4):331–7

Neurotoxic effects of acute and subchronic inhalation exposure to trimethylbenzene isomers (pseudocumene, mesitylene, hemimellitene) in rats. Korsak Z, et al. **Int J Occup Med Environ Health** 1996;9(4):341–9

Cytotoxicity and DNA strand breaks induced by benzene and its metabolites in Chinese hamster ovary cells. Sze CC, et al. **J Appl Toxicol** 1996 May–Jun;16(3):259–64

Polyhydroxylated C60, fullerenol, a novel free-radical trapper, prevented hydrogen peroxide- and cumene hydroperoxide-elicited changes in rat hippocampus in-vitro. Tsai MC, et al. **J Pharm Pharmacol** 1997 Apr; 49(4):438–45

Mutagenicity of dihydroxybenzenes and dihydroxynaphthalenes for Ames Salmonella tester strains. Hakura A, et al. **Mutat Res** 1996 Dec 20;371(3–4):293–9

Behavioral changes following 4-week inhalation exposure to pseudocumene (1,2,4-trimethylbenzene) in the rat. Gralewicz S, et al. **Neurotoxicol Teratol** 1997 Jul–Aug; 19(4):327–33

Beyond TPH: health-based evaluation of petroleum hydrocarbon exposures. Hutcheson MS, et al. **Regul Toxicol Pharmacol** 1996 Aug;24(1 Pt 1):85–101 (90 ref.)

Antioxidative and protective properties of extracts from leaves of the artichoke (Cynara scolymus L.) against hydroperoxide-induced oxidative stress in cultured rat hepatocytes. Gebhardt R. **Toxicol Appl Pharmacol** 1997 Jun;144(2):279–86

Toxicokinetics of inhaled trimethylbenzenes in man. Järnberg J, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):281–8

[Changes in function of rabbit cerebral cortex after intraperitoneal injections of organic solvents. II. Pseudocumene and 4-ethyltoluene] Tomas T, et al. **Med Pr** 1997;48(3):307–15 (Eng. Abstr.) **(Pol)**

URINE

Relationships between smoking habits, smoking-associated hematological changes, and urinary benzene metabolites. Haufroid V, et al. **J Toxicol Environ Health** 1997 Sep; 52(1):1–17

Biotransformation of diethenylbenzenes, V. Identification of urinary metabolites of 1,2-diethenylbenzene in the rat. Linhart I, et al. **Xenobiotica** 1996 Dec;26(12):1263–72

[Comparison of standard methods for determination of pseudocumene in urine using gas chromatography with the headspace technique and a new method using a headspace automatic sampler] Kostrzewski P, et al. **Med Pr** 1996; 47(6):605–13 (Eng. Abstr.) **(Pol)**

BENZENE HEXACHLORIDE see **LINDANE**

BENZENEMETHANESULFONYL FLUORIDE see **PHENYLMETHYLSULFONYL FLUORIDE**

BENZENESULFONATES

Rapid diagnosis of acute eosinophilic pneumonia (AEP) in a patient with respiratory failure using bronchoalveolar lavage (BAL) with calcofluor white (CW) staining. Hogan TF, et al. **J Clin Lab Anal** 1997;11(4):202–7 (65 ref.)

Electron spin resonance for spin trapping of 3,5-dibromo-4-nitrosobenzene sulfonate. Ichimori K, et al. **Methods Enzymol** 1996;268:203–11

Calcofluor white stain for the detection of Pneumocystis carinii in transbronchial lung biopsy specimens: a study of 68 cases [see comments] Fraire AE, et al. **Mod Pathol** 1996 Aug;9(8):861–4. Comment in: Mod Pathol 1997 Apr;10(4):395–6.

[Reaction of 3-hydroxy-dihydrosantonin with TsOH. A formal synthesis of dihydrocotunolide] Kawamata T, et al. **Yakugaku Zasshi** 1996 Sep;116(9):748–52 (Eng. Abstr.) **(Jpn)**

ANALYSIS

High-performance liquid chromatographic analysis of a linear alkylbenzenesulfonate and its environmental biodegradation metabolites. Sarrazin L, et al. **J Chromatogr A** 1997 Jan 31;760(2):285–91

Determination of two CI-1007 sulfate metabolites in monkey plasma and urine. Feng MR, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):159–66

CHEMISTRY

Physicochemical properties, analytical determinations and stability of ebrotidine. Albet C, et al. **Arzneimittelforschung** 1997 Apr;47(4A):435–8

Detection of Pneumocystis carinii with direct fluorescence antibody and calcofluor white stain. Aslanzadeh J, et al. **Infection** 1996 May–Jun;24(3):248–50

Spectrometric determination of chromium in FD&C blue no. 1 by X-ray fluorescence. Hepp NM. **J AOAC Int** 1996 Sep–Oct;79(5):1189–90

DIAGNOSTIC USE

Detection of Pneumocystis carinii in tracheal aspirates of intubated patients using calcofluor-white (Fungi-Fluor) and immunofluorescence antibody (Genetic Systems) stains. Alvarez F, et al. **Crit Care Med** 1997 Jun; 25(6):948–52

Correspondence re: Fraire AE, Kemp B, Greenberg SD, Kim H-S, Estrada R, McBride RA. Calcofluor white stain for the detection of Pneumocystis carinii in transbronchial lung biopsy specimens: a study of 68 cases. Mod pathol 1996;9:861–4 [letter; comment] Harrington BJ, et al. **Mod Pathol** 1997 Apr;10(4):395–6. Comment on: Mod Pathol 1996 Aug;9(8):861–4.

The rapid diagnosis of tinea capitis using calcofluor white. Honig PJ, et al. **Pediatr Emerg Care** 1996 Oct;12(5):333–5

Lacto-phenol cotton blue stain for the wet mount preparation of hydatid fluid. Parija SC, et al. **Trop Doct** 1997 Apr; 27(2):108

IMMUNOLOGY

Production of murine monoclonal antibodies against sulcofuron and flucofuron by in vitro immunisation. Bonwick GA, et al. **J Immunol Methods** 1996 Sep 27; 196(2):163–73

METABOLISM

Metabolism of ebrotidine. A review. Rozman E, et al. **Arzneimittelforschung** 1997 Apr;47(4A):486–9 (13 ref.)

Mineralization kinetics of chemicals in soils in relation to environmental conditions. Dörfler U, et al. **Ecotoxicol Environ Saf** 1996 Aug;34(3):216–22

Degradation of benzene 1,3-disulfonate by a mixed bacterial culture. Contzen M, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):45–50

Characterization of the p-toluenesulfonate operon tsaMBCD and tsaR in Comamonas testosteroni T-2. Junker F, et al. **J Bacteriol** 1997 Feb;179(3):919–27

Identification and characterization of Myxococcus xanthus mutants deficient in calcofluor white binding. Ramaswamy S, et al. **J Bacteriol** 1997 May;179(9):2863–71

Degradative pathways for p-toluenecarboxylate and p-toluenesulfonate and their multicomponent oxygenases in Comamonas testosteroni strains PSB-4 and T-2. Junker F, et al. **Microbiology** 1996 Sep;142 (Pt 9):2419–27

PHARMACOKINETICS

Pharmacokinetics of ebrotidine in rats and dogs. Albet C, et al. **Arzneimittelforschung** 1997 Apr;47(4A):483–5

Pharmacokinetics of ebrotidine in healthy volunteers. A summary. Albet C, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):535–9

Tolerability and pharmacokinetics of ebrotidine in healthy subjects given single and repeated oral doses. Farré M, et al. **Arzneimittelforschung** 1997 Apr;47(4A):528–30

Pharmacokinetic study of ebrotidine administered in multiple doses to healthy volunteers for 4 days. Frías J, et al. **Arzneimittelforschung** 1997 Apr;47(4A):531–4

PHARMACOLOGY

Action of ebrotidine, ranitidine and cimetidine on the specific binding to histamine H1- and H2-receptors. Agut J, et al. **Arzneimittelforschung** 1997 Apr;47(4A):447–9

Studies on the cytoprotective and antisecretory activity of ebrotidine. A review. Konturek PC, et al. **Arzneimittelforschung** 1997 Apr;47(4A):578–89 (73 ref.)

Continuous intragastric pH monitoring in the evaluation of ebrotidine, cimetidine and placebo on gastric acidity in healthy volunteers. Muñoz-Navas M, et al. **Arzneimittelforschung** 1997 Apr;47(4A):539-44

Ebrotidine. A new generation H2-receptor antagonist and gastroprotective agent. Introduction. Ortiz JA. **Arzneimittelforschung** 1997 Apr;47(4A):427-30 **(Eng, Ger, Spa)**

In vitro anti-Helicobacter pylori activity of ebrotidine. Palacín C, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):471-4

Involvement of endogenous nitric oxide and sulfhydryl compounds in ebrotidine-induced gastroprotection. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):468-71

Histamine H2-receptor antagonist action of ebrotidine. Effects on gastric acid secretion, gastrin levels and NSAID-induced gastrotoxicity in the rat. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):439-46

Effect of ebrotidine on ethanol-induced gastric mucosal damage in the rat. Comparative study with other H2-receptor antagonists. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):450-4

Study on the increment of the amount of gastric mucus in rats after repeated-dose administration of ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):455-8

Study of the population of antral G-cells and enterochromaffin-like cells in the rat and mouse gastric mucosa after long-term treatment with ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):520-3

Comparative study of plasma gastrin levels in rats after two months of ebrotidine administration. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):524-7

Gastroprotective properties of ebrotidine. A review. Slomiany BL, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):459-67 (49 ref.)

Anti-Helicobacter pylori activities of ebrotidine. A review of biochemical and animal experimental studies and data. Slomiany BL, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):475-82 (64 ref.)

Susceptibility of growth factors to degradation by Helicobacter pylori protease: effect of ebrotidine and sucralfate. Slomiany BL, et al. **Biochem Mol Biol Int** 1996 Sep;40(1):209-15

A new and potent calmodulin antagonist, HF-2035, which inhibits vascular relaxation induced by nitric oxide synthase. Win NH, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1-3):119-26

Induction of tumor necrosis factor-alpha and apoptosis in gastric mucosal injury by indomethacin: effect of omeprazole and ebrotidine. Slomiany BL, et al. **Scand J Gastroenterol** 1997 Jul;32(7):638-42

THERAPEUTIC USE

Comparison of the efficacy and safety of ebrotidine in the treatment of duodenal ulcer. A multicentre, double-blind, placebo-controlled phase II study. Gabryelewicz A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):545-50

Efficacy of ebrotidine and ranitidine in the treatment of benign gastric ulcer. Gedliczka O, et al. **Arzneimittelforschung** 1997 Apr;47(4A):560-4

Ebrotidine versus ranitidine in the treatment of acute duodenal ulcer. A multicentre, randomized, double-blind, controlled clinical trial. Matov V, et al. **Arzneimittelforschung** 1997 Apr;47(4A):555-9

Efficacy of ebrotidine and ranitidine combined with amoxicillin and metronidazole in the eradication of Helicobacter pylori in patients with duodenal ulcer. Popiela T, et al. **Arzneimittelforschung** 1997 Apr;47(4A):573-7

Studies on the protective effect of ebrotidine on experimental ulcers induced by non-steroidal anti-inflammatory drugs in healthy volunteers. Puscas I, et al. **Arzneimittelforschung** 1997 Apr;47(4A):565-8

Comparative study of the safety and efficacy of ebrotidine versus ranitidine and placebo in the prevention of piroxicam-induced gastroduodenal lesions. Puscas I, et al. **Arzneimittelforschung** 1997 Apr;47(4A):568-72

Ebrotidine versus ranitidine in the healing and prevention of relapse of duodenal ulcer. A multicentre, double-blind, parallel, randomized, controlled study. Tulassay Z, et al. **Arzneimittelforschung** 1997 Apr;47(4A):551-5

Efficacy of barrier creams. Grunewald AM, et al. **Curr Probl Dermatol** 1995;23:187-97

[Ebrotidine] Elizalde JI. **Gastroenterol Hepatol** 1997 Feb; 20(2):65-7 (30 ref.) **(Spa)**

[Ebrotidine: an new alternative in peptic acid diseases (editorial)] Piqué JM. **Med Clin (Barc)** 1997 Mar 1; 108(8):301-3 **(Spa)**

TOXICITY

Acute toxicity studies of ebrotidine. Grau MT, et al. **Arzneimittelforschung** 1997 Apr;47(4A):490-1

Subacute toxicity of ebrotidine in rats and dogs. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):492-7

Chronic toxicity of ebrotidine in rats and dogs. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):498-504

Toxicity of ebrotidine on reproduction. Toxicity on fertility and general reproductive performance, embryo-fetal toxicity and peri- and postnatal toxicity. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):504-10

Genotoxicity studies on ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):511-4

Carcinogenicity studies on ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):515-9

Mutagenicity of chemicals produced from sodium dodecylbenzenesulfonate by treatment with ozone and ultraviolet irradiation. Murakami K, et al. **Tokushima J Exp Med** 1996 Jun;43(1-2):47-54

Study of the population of enterochromaffin-like cells in mouse gastric mucosa after long-term treatment with ebrotidine. Romero A, et al. **Toxicol Pathol** 1996 Mar-Apr; 24(2):160-5

[The importance of using biological test objects in studying the toxicity of surface-active substances] Mudryĭ IV, et al. **Lik Sprava** 1996 Mar-Apr;(3-4):150-2 (Eng. Abstr.) **(Rus)**

URINE

Determination of ebrotidine and its metabolites in human urine by reversed-phase ion-pair high-performance liquid chromatography. Rozman E, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):107-15

BENZETHONIUM

Homogentisic acid interference in the measurement of urinary protein using benzethonium chloride. Sykes E, et al. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):86-8

PHARMACOLOGY

Synergistic inhibition of muscarinic signaling by ketamine stereoisomers and the preservative benzethonium chloride. Durieux ME, et al. **Anesthesiology** 1997 Jun;86(6):1326-33

Inhibition of acetylcholine esterase and choline esterase by benzethonium chloride and avoidance of the benzethonium chloride carry-over inhibitory effect. Zaman Z, et al. **Eur J Clin Chem Clin Biochem** 1997 Aug;35(8):603-7

BENZETIMIDE see **DEXETIMIDE**

BENZHEXOL see **TRIHEXYPHENIDYL**

BENZHYDRYL COMPOUNDS

ADMINISTRATION & DOSAGE

Efficacy and safety of two doses of tolterodine versus placebo in patients with detrusor overactivity and symptoms of frequency, urge incontinence, and urgency: urodynamic evaluation. The International Study Group. Jonas U, et al. **World J Urol** 1997;15(2):144-51

ANALYSIS

Simple analysis of diphenylmethane antihistaminics and their analogues in bodily fluids by headspace solid-phase microextraction-capillary gas chromatography. Nishikawa M, et al. **J Chromatogr Sci** 1997 Jun;35(6):275-9

CHEMISTRY

High-resolution X-ray crystallography reveals precise binding interactions between human nonpancreatic secreted phospholipase A2 and a highly potent inhibitor (FPL67047XX). Cha SS, et al. **J Med Chem** 1996 Sep 27; 39(20):3878-81

Synthesis and phospholipase A2 inhibitory activity of thielocin B3 derivatives. Teshirogi I, et al. **J Med Chem** 1996 Dec 20;39(26):5183-91

METABOLISM

High-resolution X-ray crystallography reveals precise binding interactions between human nonpancreatic secreted phospholipase A2 and a highly potent inhibitor (FPL67047XX). Cha SS, et al. **J Med Chem** 1996 Sep 27; 39(20):3878-81

PHARMACOKINETICS

Pharmacokinetics and pharmacodynamics of tolterodine in man: a new drug for the treatment of urinary bladder overactivity. Brynne N, et al. **Int J Clin Pharmacol Ther** 1997 Jul;35(7):287-95

PHARMACOLOGY

Effects on nociception of the Ca2+ and 5-HT antagonist dotarizine and other 5-HT receptor agonists and antagonists. Belcheva S, et al. **Acta Physiol Pharmacol Bulg** 1995;21(4):93-8

The effect of long-term post-ischemic bifemelane hydrochloride treatment on cholinergic systems in the gerbil hippocampus. Huang YL, et al. **Brain Res** 1996 May 25;722(1-2):195-9

The vigilance promoting drug modafinil increases dopamine release in the rat nucleus accumbens via the involvement of a local GABAergic mechanism. Ferraro L, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):33-9

Tolterodine--a new bladder-selective antimuscarinic agent. Nilvebrant L, et al. **Eur J Pharmacol** 1997 May 30; 327(2-3):195-207

Non-amphetaminic mechanism of stimulant locomotor effect of modafinil in mice. Simon P, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):509-14

In vitro pharmacological effects of S 12370 (2-[4-benzhydryloxypiperidinoethyl]isoxindole; an antibronchoconstrictor agent) in normal and sensitized tissue. Martin CA, et al. **Fundam Clin Pharmacol** 1996; 10(5):458-66

Analysis of stimulant locomotor effects of modafinil in various strains of mice and rats. Simon P, et al. **Fundam Clin Pharmacol** 1996;10(5):431-5

Effect of dotarizine on K(+)-stimulated [3H]-serotonin and [3H]-acetylcholine release from rat hippocampus. Hadjiivanova C, et al. **Gen Pharmacol** 1997 Jan; 28(1):129-32

Effects of bifemelane hydrochloride on atherosclerosis in aged rats fed low-calcium diets. Yasui M, et al. **J Int Med Res** 1996 Nov-Dec;24(6):454-65

Effects of the calcium channel blockers Dotarizine and Flunarizine on cerebrovascular reactivity. Czernicki Z, et al. **J Neurol Sci** 1996 Nov;143(1-2):60-3

Effects of bifemelane on muscarinic receptors and choline acetyltransferase in the brains of aged rats following chronic cerebral hypoperfusion induced by permanent occlusion of bilateral carotid arteries. Egashira T, et al. **Jpn J Pharmacol** 1996 Sep;72(1):57-65

Tolterodine--a new bladder selective muscarinic receptor antagonist: preclinical pharmacological and clinical data. Nilvebrant L, et al. **Life Sci** 1997;60(13-14):1129-36 (26 ref.)

Anxiolytic effects of dotarizine, a possible antimigraine drug. Petkov VD, et al. **Methods Find Exp Clin Pharmacol** 1995 Dec;17(10):659-68

The vigilance promoting drug modafinil decreases GABA release in the medial preoptic area and in the posterior hypothalamus of the awake rat: possible involvement of the serotonergic 5-HT3 receptor. Ferraro L, et al. **Neurosci Lett** 1996 Dec 6;220(1):5-8

Preventive effects of bifemelane hydrochloride on decreased levels of muscarinic acetylcholine receptor and its mRNA in a rat model of chronic cerebral hypoperfusion. Kondo Y, et al. **Neurosci Res** 1996 Mar;24(4):409-14

Potential brain neuronal targets for amphetamine-, methylphenidate-, and modafinil-induced wakefulness, evidenced by c-fos immunocytochemistry in the cat. Lin JS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):14128-33

Evaluation of the cocaine-like discriminative stimulus effects and reinforcing effects of modafinil. Gold LH, et al. **Psychopharmacology (Berl)** 1996 Aug;126(4):286-92

Comparative effects of modafinil and amphetamine on daytime sleepiness and cataplexy of narcoleptic dogs. Shelton J, et al. **Sleep** 1995 Dec;18(10):817-26

[A new method for testing the psychopharmacologic pupil oscillation hypothesis following administration of a nootropic substance] Grünberger J, et al. **Arzneimittelforschung** 1995 Nov;45(11):1149-54 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Use of bifemelane hydrochloride in improving and maintaining the visual field of patients with glaucoma. Shigemitsu T, et al. **Clin Ther** 1996 Jan-Feb;18(1):106-13

Treatment with bifemelane for optic nerve damage following high intraocular pressure in rat eyes. Adachi M, et al. **Eur J Ophthalmol** 1996 Oct-Dec;6(4):415-20

Effects of increased cholinergic activity on naming in aphasia [letter] Tanaka Y, et al. **Lancet** 1997 Jul 12;350(9071):116-7

Randomized, double-blind, placebo-controlled crossover trial of modafinil in the treatment of excessive daytime sleepiness in narcolepsy. Broughton RJ, et al. **Neurology** 1997 Aug;49(2):444-51

Modafinil in obstructive sleep apnea-hypopnea syndrome: a pilot study in 6 patients. Arnulf I, et al. **Respiration** 1997; 64(2):159-61

Modafinil decreases hypersomnolence in the English bulldog, a natural animal model of sleep-disordered breathing. Panckeri KA, et al. **Sleep** 1996 Oct;19(8):626-31

[Comparative evaluation of the anti-arrhythmia efficacy of fencarol and dimebon during neurogenic atrial fibrillation] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):81-5 **(Rus)**

TOXICITY

Determination of bioconcentration factors of eight tetrachlorobenzyltoluenes in the zebra mussel Dreissena polymorpha. van Haelst AG, et al. **Ecotoxicol Environ Saf** 1996 Jun;34(1):35-42

BENZIDINES

see related

CARCINOGENS

Urinary mutagenicity as a biomarker in workers exposed to benzidine: correlation with urinary metabolites and urothelial DNA adducts. DeMarini DM, et al. **Carcinogenesis** 1997 May;18(5):981-8

ADVERSE EFFECTS

Triple primary cancers involving kidney, urinary bladder, and liver in a dye worker. Morikawa Y, et al. **Am J Ind Med** 1997 Jan;31(1):44-9

Increase in CD57 + CD16-lymphocytes in workers exposed to benzidine and beta-naphthylamine: assessment of natural

BENZIDINES

killer cell subpopulations. Tanigawa T, et al. **Int Arch Occup Environ Health** 1996;69(1):69–72

Exposure to aromatic amines and ras and c-erbB-2 overexpression in bladder cancer. Novara R, et al. **J Occup Environ Med** 1996 Apr;38(4):390–3

[Clinical study of occupational uroepithelial cancer] Hamasaki T, et al. **Sangyo Ika Daigaku Zasshi** 1996 Dec 1;18(4):247–59 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Mechanism of the oxidation of 3,5,3',5'-tetramethylbenzidine by myeloperoxidase determined by transient- and steady-state kinetics. Marquez LA, et al. **Biochemistry** 1997 Aug 5;36(31):9349–55

METABOLISM

Inhibition of oxidation of aromatic amines in heme-containing hydrogen peroxide systems by substituted 4,6-di-tert-butyl-pyrocatechols. Metelitza DI, et al. **Biochemistry (Mosc)** 1997 Mar;62(3):275–84

The glutathione S-transferase M1 (GSTM1) null genotype and benzidine-associated bladder cancer, urine mutagenicity, and exfoliated urothelial cell DNA adducts. Rothman N, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):979–83

NADPH-dependent oxidation of benzidine by rat liver. Lakshmi VM, et al. **Carcinogenesis** 1996 Sep;17(9):1941–7

Plant-activation of the bicyclic aromatic amines benzidine and 4-aminobiphenyl. Ju YH, et al. **Environ Mol Mutagen** 1997;29(1):81–90

PHARMACOKINETICS

Rat liver cytochrome P450 metabolism of N-acetylbenzidine and N,N'-diacetylbenzidine. Lakshmi VM, et al. **Drug Metab Dispos** 1997 Apr;25(4):481–8

Benzidine mechanistic data and risk assessment: species- and organ-specific metabolic activation. Whysner J, et al. **Pharmacol Ther** 1996;71(1-2):107–26 (146 ref.)

In vitro percutaneous absorption of benzidine in complex mechanistically defined chemical mixtures [published erratum appears in Toxicol Appl Pharmacol 1997 Jun;144(2):401] Baynes RE, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):497–506

TOXICITY

Plant-activation of the bicyclic aromatic amines benzidine and 4-aminobiphenyl. Ju YH, et al. **Environ Mol Mutagen** 1997;29(1):81–90

Benzidine mechanistic data and risk assessment: species- and organ-specific metabolic activation. Whysner J, et al. **Pharmacol Ther** 1996;71(1-2):107–26 (146 ref.)

BENZILATES

ANALYSIS

Changes of bromopropylate and carbendazim residues during processing of apples into apple puree. Sadło S. **Rocz Panstw Zakl Hig** 1996;47(3):273–6

DIAGNOSTIC USE

[Muscarinic cholinergic receptor imaging of parkinsonian brain using 11C-NMPB and PET] Asahina M, et al. **Nippon Rinsho** 1997 Jan;55(1):233–7 (10 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

Kinetic evaluation of positron-emitting muscarinic receptor ligands employing direct intracarotid injection. Buck A, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1280–7

In-vitro binding of propiverine hydrochloride and some of its metabolites to serum albumin in man. Meisel P, et al. **J Pharm Pharmacol** 1997 Mar;49(3):270–2

PHARMACOLOGY

Autoradiographic evidence that (R)-3-quinuclidinyl (S)-4-fluoromethylbenzilate ((R,S)-FMeQNB) displays in vivo selectivity for the muscarinic m2 subtype. Boulay SF, et al. **Nucl Med Biol** 1996 Oct;23(7):889–96

BENZIMIDAZOLES

Time-resolved fluorescence spectroscopy and imaging of DNA labeled with DAPI and Hoechst 33342 using three-photon excitation. Lakowicz JR, et al. **Biophys J** 1997 Feb;72(2 Pt 1):567–78

Improved fetal nucleated erythrocyte sorting purity using intracellular antifetal hemoglobin and Hoechst 33342. DeMaria MA, et al. **Cytometry** 1996 Sep 1;25(1):37–45

JC-1, but not DiOC6(3) or rhodamine 123, is a reliable fluorescent probe to assess delta psi changes in intact cells: implications for studies on mitochondrial functionality during apoptosis. Salvioli S, et al. **FEBS Lett** 1997 Jul 7; 411(1):77–82

The effect of cooking on veterinary drug residues in food: 5. Oxfendazole. Rose MD, et al. **Food Addit Contam** 1997 Jan;14(1):15–26

ADMINISTRATION & DOSAGE

Efficacy and tolerability of a one-week triple therapy consisting of pantoprazole, clarithromycin and amoxycillin for cure of Helicobacter pylori infection in patients with duodenal ulcer. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):95–100

Efficacy and tolerability of pantoprazole 40 mg versus 80 mg in patients with reflux oesophagitis. van Rensburg CJ, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):397–401

Mibefradil, a novel calcium antagonist, in elderly patients with hypertension: favorable hemodynamics and pharmacokinetics. Bursztyn M, et al. **Am Heart J** 1997 Aug; 134(2 Pt 1):238–47

Safety of mibefradil, a new once-a-day, selective T-type calcium channel antagonist. Kobrin I, et al. **Am J Cardiol** 1997 Aug 21;80(4B):40C–46C

A case of renin-producing juxtaglomerular tumor: effect of ACE inhibitor or angiotensin II receptor antagonist. Kashiwabara H, et al. **Blood Press** 1997 May;6(3):147–53

Which proton pump inhibitor should we use? Williams CN. **Can J Gastroenterol** 1997 Jan-Feb;11(1):29

Intragastric pH and serum gastrin during administration of different doses of pantoprazole in healthy subjects. Koop H, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):915–8

Morning and evening administration of pantoprazole: a study to compare the effect on 24-hour intragastric pH. Müssig S, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):599–602

Pantoprazole-based dual and triple therapy for the eradication of Helicobacter pylori infection: a randomized controlled trial. Svoboda P, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):886–90

Hemodynamic and cardiac effects of the selective T-type and L-type calcium channel blocking agent mibefradil in patients with varying degrees of left ventricular systolic dysfunction. Rousseau MF, et al. **J Am Coll Cardiol** 1996 Oct;28(4):972–9

The addition of mibefradil to chronic hydrochlorothiazide therapy in hypertensive patients is associated with a significant antihypertensive effect. Carney S, et al. **J Hum Hypertens** 1997 Jul;11(7):459–66

Ethanol and cocaine intake by rats selectively bred for oral opioid acceptance. Carlson KR, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):309–13

[The enhancement of human thermal resistance by the single use of bemitil and fenibut] Makarov VI, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):68–71 (Eng. Abstr.) **(Rus)**

[Importance of toxicological studies in animals for elaboration of pathogenetic therapy of hydrazine intoxication] Baryshnikov II. **Med Tr Prom Ekol** 1997;(6):22–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Comparative analysis of the cardiotoxicity proclivities of second generation antihistamines in an experimental model predictive of adverse clinical ECG effects [see comments] Hey JA, et al. **Arzneimittelforschung** 1996 Feb;46(2):153–8 . Comment in: Arzneimittelforschung 1996 Aug;46(8):832–3.

Evaluating the safety of mibefradil, a selective T-type calcium antagonist, in patients with chronic congestive heart failure. van der Vring JA, et al. **Clin Ther** 1996 Nov-Dec;18(6):1191–206

Lack of pantoprazole drug interactions in man: an updated review. Steinijans VW, et al. **Int J Clin Pharmacol Ther** 1996 Jun;34(6):243–62 (125 ref.)

[The effect of bemitil on the parameters of lipid peroxidation and nitrogen metabolism in epilepsy in children] Mikhallov IB, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):20–2 (Eng. Abstr.) **(Rus)**

ANALYSIS

Separation of fungicides by micellar electrokinetic capillary chromatography. Penmetsa KV, et al. **Electrophoresis** 1997 Feb;18(2):235–40

Rapid quantitative screening assay of trace benzimidazole residues in milk by liquid chromatography. Fletouris D, et al. **J AOAC Int** 1996 Nov-Dec;79(6):1281–7

Chromatographic analysis of imazalil and carbendazim in fruits. Method validation and residue monitoring program 1995. Garrido J, et al. **J Chromatogr A** 1997 Mar 21; 765(1):91–7

Quantitation of a new potent angiotensin II receptor antagonist, TCV-116, and its metabolites in human serum and urine. Miyabayashi T, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):123–32

Characterization of conjugated metabolites of a new angiotensin II receptor antagonist, candesartan cilexetil, in rats by liquid chromatography/electrospray tandem mass spectrometry following chemical derivatization. Kondo T, et al. **J Mass Spectrom** 1996 Aug;31(8):873–8

Estimation of anthelmintic compound 81/470 in cow's milk by high-performance liquid chromatography: method development and validation. Nagaraja NV, et al. **J Pharm Biomed Anal** 1997 May;15(8):1175–80

Changes of bromopropylate and carbendazim residues during processing of apples into apple puree. Sadło S. **Rocz Panstw Zakl Hig** 1996;47(3):273–6

BLOOD

Enantioselective high-performance liquid chromatographic assay for determination of the enantiomers of a new anti-ulcer agent, E3810, in beagle dog plasma and rat plasma. Takakuwa S, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):113–22

Plasma direct injection high-performance liquid chromatographic method for simultaneously determining E3810 enantiomers and their metabolites by using flavoprotein-conjugated column. Mano N, et al. **J Pharm Sci** 1996 Sep;85(9):903–7

CHEMICAL SYNTHESIS

Synthesis and in vitro anti-HIV activity of certain 2-(1H-benzimidazol-2-ylamino)pyrimidin-4(3H)-ones and related derivatives. Badawey el-S, et al. **Arch Pharm (Weinheim)** 1997 Mar;330(3):59–62

Benzimidazole-type glycine antagonists: the role of the ring nitrogen atoms. Berger ML, et al. **Arch Pharm (Weinheim)** 1996 Mar;329(3):121–4

Synthesis and antimicrobial activity of 1-dialkylaminomethyl- 2-(p-substituted phenyl)-5-substituted benzimidazole derivatives. Ersan S, et al. **Arzneimittelforschung** 1997 Apr;47(4):410–2

Studies on analgesic and anti-inflammatory activities of 1-dialkylaminomethyl-2-(p-substituted phenyl)-5-substituted benzimidazole derivatives. Ersan S, et al. **Arzneimittelforschung** 1997 Jul;47(7):834–6

Synthesis and inhibitory effects of 2-pyridyl-2-thiobenzoxazole and 2-pyridyl-2-thiobenzimidazole derivatives on arachidonic acid metabolism. Lagorce JF, et al. **Arzneimittelforschung** 1995 Nov;45(11):1207–10

Synthesis of N-n-propyl-N-(2-arylethyl)-5-(1H-benzimidazol-2-thione)-eth ylamines and related compounds as potential dopaminergic ligands. Soškic V, et al. **Arzneimittelforschung** 1996 Aug;46(8):741–6

Aminoazoles in heterocyclic synthesis. Synthesis of some new pyrimidobenzimidazoles and pyrazolonopyridines as well as triazolo-, tetrazolo- and pyrazolo-pyrimidines of pharmaceutical interest. Kandeel EM, et al. **Boll Chim Farm** 1996 Apr;135(4):232–5

Syntheses and pharmacological properties of new 2-aminobenzimidazole derivatives. Nawrocka W. **Boll Chim Farm** 1996 Jan;135(1):18–23

Novel 5-hydroxytryptamine (5-HT3) receptor antagonists. IV. Synthesis and pharmacological evaluation of the oxidation products of (-)-(R)-5-[(1-methyl-1H-indol-3-yl)carbonyl] -4,5,6,7-tetrahydro-1H-benzimidazole hydrochloride (YM060: ramosetron). Ohta M, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep;44(9):1717–22

Synthesis of some 1-(2-arylvinyl)-3-arylpyrazino[1,2-a]benzimidazole derivatives and their antimicrobial activities. Demirayak S, et al. **Farmaco** 1996 Dec;51(12):825–7

Synthesis of 1,2-disubstituted benzimidazole-5(6)-carboxamides and evaluation of their antimicrobial activity. Göker H, et al. **Farmaco** 1996 Jan; 51(1):53–8

Synthesis and antiviral activity of certain 5'-modified analogs of 2,5,6-trichloro-1-(beta-D-ribofuranosyl)benzimidazole. Gudmundsson KS, et al. **J Med Chem** 1997 Feb 28; 40(5):785–93

[125I/127I]iodoHoechst 33342: synthesis, DNA binding, and biodistribution. Harapanhalli RS, et al. **J Med Chem** 1996 Nov 22;39(24):4804–9

Synthesis and angiotensin II receptor antagonistic activities of benzimidazole derivatives bearing acidic heterocycles as novel tetrazole bioisosteres. Kohara Y, et al. **J Med Chem** 1996 Dec 20;39(26):5228–35

Design, synthesis, and antiviral evaluation of 2-substituted 4,5-dichloro- and 4,6-dichloro-1-beta-D-ribofuranosylbenzimidazoles as potential agents for human cytomegalovirus infections. Zou R, et al. **J Med Chem** 1997 Feb 28;40(5):802–10

Design, synthesis, and antiviral evaluation of 2-chloro-5,6-dihalo-1-beta-D-ribofuranosylbenzimidazoles as potential agents for human cytomegalovirus infections. Zou R, et al. **J Med Chem** 1997 Feb 28;40(5):811–8

Bis-benzimidazole dyes, Hoechst 33258 and Hoechst 33342: radioiodination, facile purification and subcellular distribution. Harapanhalli RS, et al. **Nucl Med Biol** 1994 May;21(4):641–7

Synthesis and biological investigations of some novel thiazolylbenzimidazoles, and benzimidazolyl-thiazolo[4,5-d]pyrimidines. Habib NS, et al. **Pharmazie** 1997 May;52(5):346–50

[Studies on the synthesis of cholecystokinin A receptor antagonists. IV. Synthesis and cholecystokinin A receptor inhibitory activities of benzimidazole derivatives] Ajisawa Y, et al. **Yakugaku Zasshi** 1996 Sep;116(9):735–47 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Halogenated benzimidazole inhibitors of phosphorylation, in vitro and in vivo, of the surface acidic proteins of the yeast ribosomal 60S subunit by endogenous protein kinases CK-II and PK60S. Szyszka R, et al. **Acta Biochim Pol**

1996;43(2):389–96
(E,Z)–2–(2–chloro–5–nitrostyryl)–1–(1–propenyl) benzimidazole. Bacelo DE, et al. **Acta Crystallogr C** 1997 Jul 15;53 (Pt 7):907–9
Lead discovery of inhibitors of the dihydrofolate reductase domain of Plasmodium falciparum dihydrofolate reductase–thymidylate synthase. Toyoda T, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):515–9
Isohelicity and phasing in drug—DNA sequence recognition: crystal structure of a tris(benzimidazole)—oligonucleotide complex. Clark GR, et al. **Biochemistry** 1996 Oct 29; 35(43):13745–52
Novel 5–hydroxytryptamine (5–HT3) receptor antagonists. IV. Synthesis and pharmacological evaluation of the oxidation products of (–)–(R)–5–[(1–methyl–1H–indol–3–yl)carbonyl] –4,5,6,7–tetrahydro–1H–benzimidazole hydrochloride (YM060: ramosetron). Ohta M, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep;44(9):1717–22
Novel 5–hydroxytryptamine (5–HT3) receptor antagonists. III. Pharmacological evaluations and molecular modeling studies of optically active 4,5,6,7–tetrahydro–1H–benzimidazole derivatives. Ohta M, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep;44(9):1707–16
Detection of apoptosis by flow cytometry of cells simultaneously stained for intracellular pH (carboxy SNARF–1) and membrane permeability (Hoechst 33342). Reynolds JE, et al. **Cytometry** 1996 Dec 1;25(4):349–57
Terbenzimidazoles: influence of 2"–, 4–, and 5–substituents on cytotoxicity and relative potency as topoisomerase I poisons. Kim JS, et al. **J Med Chem** 1997 Aug 29; 40(18):2818–24
New 2–piperazinylbenzimidazole derivatives as 5–HT3 antagonists. Synthesis and pharmacological evaluation. Orjales A, et al. **J Med Chem** 1997 Feb 14;40(4):586–93
Synthesis, antiviral activity, and biological properties of vinylacetylene analogs of enviroxime. Victor F, et al. **J Med Chem** 1997 May 9;40(10):1511–8
QSAR analysis of a set of benzimidazole derivatives based on their tuberculostatic activities. Geban O, et al. **Pharmazie** 1996 Jan;51(1):34–6
The reactivity of B12 cofactors: the proteins make a difference. Ludwig ML, et al. **Structure** 1996 May 15; 4(5):505–12 (42 ref.)
[Derivatives of 2–mercaptobenzimidazole—a new group of specific bradycardic drugs] Chichkanov GG, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):23–6 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Third generation calcium antagonists [letter; comment] Purcell H. **Blood Press** 1996 Sep;5(5):319. Comment on: Blood Press 1996 Jul;5(4):206–8.

ISOLATION & PURIFICATION

Chiral resolution of pantoprazole sodium and related sulfoxides by complex formation with bovine serum albumin in capillary electrophoresis. Eberle D, et al. **J Chromatogr A** 1997 Jan 24;759(1–2):185–92

METABOLISM

Isohelicity and phasing in drug—DNA sequence recognition: crystal structure of a tris(benzimidazole)—oligonucleotide complex. Clark GR, et al. **Biochemistry** 1996 Oct 29; 35(43):13745–52
Differential stereoselective pharmacokinetics of pantoprazole, a proton pump inhibitor in extensive and poor metabolizers of pantoprazole—a preliminary study. Tanaka M, et al. **Chirality** 1997;9(1):17–21
Characterizing the DNA binding modes of a topoisomerase I–poisoning terbenzimidazole: evidence for both intercalative and minor groove binding properties. Pilch DS, et al. **Drug Des Discov** 1996 Apr;13(3–4):115–33
Drug interactions with proton pump inhibitors. Unge P, et al. **Drug Saf** 1997 Mar;16(3):171–9 (115 ref.)
Comparison of [3H]YM060 binding to native and cloned rat 5–HT3 receptors. Akuzawa S, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):227–30
Candesartan (CV–11974) dissociates slowly from the angiotensin AT1 receptor. Ojima M, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):137–46
Functional assay of multidrug resistant cells using JC–1, a carbocyanine fluorescent probe. Kühnel JM, et al. **Leukemia** 1997 Jul;11(7):1147–55
beta–Tubulin genes and the basis for benzimidazole sensitivity of the opportunistic fungus Cryptococcus neoformans. Cruz MC, et al. **Microbiology** 1997 Jun;143 (Pt 6):2003–8
Metabolism of the calcium antagonist, mibefradil (POSICOR, Ro 40–5967). Part II. Metabolism in hepatic microsomes from rat, marmoset, cynomolgus monkey, rabbit and man. Wiltshire HR, et al. **Xenobiotica** 1997 Jun;27(6):539–56

PHARMACOKINETICS

Twenty–four–hour intragastric pH profiles and pharmacokinetics following single and repeated oral administration of the proton pump inhibitor pantoprazole in comparison to omeprazole. Hartmann M, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):359–66
Comparison of binding of 3H–desmethoxyverapamil and 3H–mibefradil in vascular smooth muscle and heart membranes. Possible binding of mibefradil to a site distinct from the phenylalkylamine–binding site. Ratner EI, et al. **Arzneimittelforschung** 1996 Oct;46(10):953–5
Effect of quercetin on Hoechst 33342 transport by purified and reconstituted P–glycoprotein. Shapiro AB, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):587–96
Flow cytometry evaluation of the multidrug–resistant phenotype with functional tests involving uptake of daunorubicin, Hoechst 33342, or rhodamine 123: a comparative study. Lizard G, et al. **Cancer Detect Prev** 1995;19(6):527–34
Differential stereoselective pharmacokinetics of pantoprazole, a proton pump inhibitor in extensive and poor metabolizers of pantoprazole—a preliminary study. Tanaka M, et al. **Chirality** 1997;9(1):17–21
Pharmacokinetics, metabolism and interactions of acid pump inhibitors. Focus on omeprazole, lansoprazole and pantoprazole. Andersson T. **Clin Pharmacokinet** 1996 Jul; 31(1):9–28 (170 ref.)
Plasma and skin suction–blister–fluid pharmacokinetics and time course of the effects of oral mizolastine. Chosidow O, et al. **Eur J Clin Pharmacol** 1996;50(4):327–33
Dose linearity of the pharmacokinetics of the new H+/K(+)–ATPase inhibitor pantoprazole after single intravenous administration. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S18–24
Pharmacokinetics of pantoprazole in man. Huber R, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S7–16 (61 ref.)
Pharmacokinetics of pantoprazole in man. Huber R, et al. **Int J Clin Pharmacol Ther** 1996 May;34(5):185–94
Pharmacokinetics and tolerance of pantoprazole, a proton pump inhibitor after single and multiple oral doses in healthy Japanese volunteers. Tanaka M, et al. **Int J Clin Pharmacol Ther** 1996 Oct;34(10):415–9
Pharmacokinetics and drug interactions—relevant factors for the choice of a drug. Zech K, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S3–6 (32 ref.)
Haemodynamics, cardiac conduction and pharmacokinetics of mibefradil (Ro 40–5967), a novel calcium antagonist. Petrie JR, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1842–6
Bis–benzimidazole dyes, Hoechst 33258 and Hoechst 33342: radioiodination, facile purification and subcellular distribution. Harapanhalli RS, et al. **Nucl Med Biol** 1994 May;21(4):641–7
Depletion and bioavailability of 14C–oxibendazole residues in swine tissues. Gottschall DW, et al. **Vet Parasitol** 1996 Aug;64(1–2):83–93
Efficacy and pharmacokinetics of triclabendazole in buffalo with induced fasciolosis. Sanyal PK, et al. **Vet Parasitol** 1996 May;63(1–2):75–82
Influence of drench volume on the disposition of oxfendazole in sheep. Hennessy DR, et al. **Vet Rec** 1997 Apr 19; 140(16):429–30
The efficacy and pharmacokinetics of long–term low–level intraruminal administration of triclabendazole in buffalo with induced fasciolosis. Sanyal PK, et al. **Vet Res Commun** 1996;20(5):461–8
Some pharmacokinetic parameters of oxfendazole in sheep. Soraci AL, et al. **Vet Res Commun** 1997 May;21(4):283–7
Metabolism of the calcium antagonist, mibefradil (POSICOR, Ro 40–5967). Part III. Comparative pharmacokinetics of mibefradil and its major metabolites in rat, marmoset, cynomolgus monkey and man. Wiltshire HR, et al. **Xenobiotica** 1997 Jun;27(6):557–71

PHARMACOLOGY

Twenty–four–hour intragastric pH profiles and pharmacokinetics following single and repeated oral administration of the proton pump inhibitor pantoprazole in comparison to omeprazole. Hartmann M, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):359–66
Lack of subsensitivity to mizolastine over 8–week treatment. Bousquet J, et al. **Allergy** 1996 Apr;51(4):251–6
Efficacy of mizolastine, a new antihistamine, compared with placebo in the treatment of chronic idiopathic urticaria. Brostoff J, et al. **Allergy** 1996 May;51(5):320–5
Pharmacologic and pharmacokinetic profile of mibefradil, a T– and L–type calcium channel antagonist. Abernethy DR. **Am J Cardiol** 1997 Aug 21;80(4B):4C–11C (34 ref.)
Pharmacologic and clinical perspectives on mibefradil: a new T–channel selective calcium antagonist: introduction. Giles TD. **Am J Cardiol** 1997 Aug 21;80(4B):1C–3C
Pharmacologic and therapeutic differences among calcium channel antagonists: profile of mibefradil, a new calcium antagonist. Triggle DJ. **Am J Cardiol** 1996 Nov 7; 78(9A):7–12 (41 ref.)
Modulation of Cl– secretion by benzimidazolones. I. Direct activation of a Ca(2+)–dependent K+ channel. Devor DC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L775–84
Modulation of Cl– secretion by benzimidazolones. II. Coordinate regulation of apical GCl and basolateral GK. Devor DC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L785–95
Reduction in renin release and renal vascular resistance by H(+)–K(+)–ATPase inhibition. Lin H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F457–62
Effects of carbendazim (methyl 2–benzimidazole carbamate; MBC) on meiotic spermatocytes and subsequent spermiogenesis in the rat testis. Nakai M, et al. **Anat Rec** 1997 Mar;247(3):379–87
Hoechst 33342–induced apoptosis in BC3H–1 myocytes. Zhang X, et al. **Ann Clin Lab Sci** 1997 Jul–Aug; 27(4):260–75
Basis for the selective antibacterial activity in vitro of proton pump inhibitors against Helicobacter spp. Sjøstrøm JE, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1797–801
Differences in inducibility of CYP1A1–mRNA by benzimidazole compounds between human and mouse cells: evidences of a human–specific signal transduction pathway for CYP1A1 induction. Kikuchi H, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):235–40
Benzimidazole–type glycine antagonists: the role of the ring nitrogen atoms. Berger ML, et al. **Arch Pharm (Weinheim)** 1996 Mar;329(3):121–4
Influence of mibefradil on Ca2+ influx induced by vasoactive hormones or depletion of intracellular calcium stores. Cheglakov IB, et al. **Arzneimittelforschung** 1997 Mar;47(3):244–7
Synthesis and antimicrobial activity of beta–[(2–benzimidazolyl)thio]–beta–benzoyl styrene derivatives. Ersan S, et al. **Arzneimittelforschung** 1997 Jun; 47(6):773–5
General pharmacological properties of the new angiotensin II receptor antagonist (+/–)–1–(cyclohexyloxycarbonyloxy) ethyl 2–ethoxy–1–[[2'–(1H–tetrazol–5–yl) biphenyl–4–yl] methyl]–1 H–benzimidazole–7–carboxylate. Part II: Effect on cardiovascular and renal functions. Kito G, et al. **Arzneimittelforschung** 1996 Jul;46(7):681–6
Antifungal activity of organic and organometallic derivatives of benzimidazole and benzothiazole. Küçükbay H, et al. **Arzneimittelforschung** 1997 May;47(5):667–70
Hypotensive effects of the angiotensin II antagonist telmisartan in conscious chronically–instrumented transgenic rats. van Meel JC, et al. **Arzneimittelforschung** 1996 Aug;46(8):755–9
Kinetic studies of Helicobacter pylori urease inhibition by a novel proton pump inhibitor, rabeprazole. Park JB, et al. **Biol Pharm Bull** 1996 Feb;19(2):182–7
Lack of pharmacokinetic interaction of pantoprazole with diazepam in man. Gugler R, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):249–52
Neural 5–HT4 receptors in the human isolated detrusor muscle: effects of indole, benzimidazolone and substituted benzamide agonists and antagonists. Candura SM, et al. **Br J Pharmacol** 1996 Aug;118(8):1965–70
Effects of the BKCa channel activator, NS1619, on rat cerebral artery smooth muscle. Holland M, et al. **Br J Pharmacol** 1996 Jan;117(1):119–29
Further investigation into the signal transduction mechanism of the 5–HT4–like receptor in the circular smooth muscle of human colon. McLean PG, et al. **Br J Pharmacol** 1996 Jun;118(4):1058–64
Inhibition by mibefradil, a novel calcium channel antagonist, of Ca(2+)– and volume–activated Cl– channels in macrovascular endothelial cells. Nilius B, et al. **Br J Pharmacol** 1997 Jun;121(3):547–55
Blockade of receptor–operated calcium channels by mibefradil (Ro 40–5967): effects on intracellular calcium and platelet aggregation. Hahn M, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):815–21
Prevention of neointima formation by mibefradil after vascular injury in rats: comparison with ACE inhibition. Schmitt R, et al. **Cardiovasc Drugs Ther** 1996 May; 10(2):101–5
Mechanism of inhibition of H+, K(+)–ATPase by sodium 2–[[4–(3–methoxypropoxy)–3–methylpyridin–2–yl]methylsulfinyl]–1H–benzimidazole (E3810). Nochi S, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):552–8
Novel 5–hydroxytryptamine (5–HT3) receptor antagonists. IV. Synthesis and pharmacological evaluation of the oxidation products of (–)–(R)–5–[(1–methyl–1H–indol–3–yl)carbonyl] –4,5,6,7–tetrahydro–1H–benzimidazole hydrochloride (YM060: ramosetron). Ohta M, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep;44(9):1717–22
Effects of pantoprazole on xenobiotic metabolizing enzymes in rat liver microsomes: a comparison with other proton pump inhibitors. Masubuchi N, et al. **Drug Metab Dispos** 1997 May;25(5):584–9
Pantoprazole. A review of its pharmacological properties and therapeutic use in acid–related disorders [published errata appear in Drugs 1996 Jun;51(6):1074 and 1996 Jul;52(1):92] Fitton A, et al. **Drugs** 1996 Mar;51(3):460–82 (132 ref.)
Lack of pharmacodynamic and pharmacokinetic interaction between pantoprazole and phenprocoumon in man. Ehrlich A, et al. **Eur J Clin Pharmacol** 1996;51(3–4):277–81
Twenty–four–hour monitoring of intragastric acidity: comparison between lansoprazole 30mg and pantoprazole 40mg. Florent C, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):195–200
Metabolic interactions of the proton–pump inhibitors lansoprazole, omeprazole and pantoprazole with other drugs. Meyer UA. **Eur J Gastroenterol Hepatol** 1996 Oct; 8 Suppl 1:S21–5
Effects of the anti–allergics astemizole and norastemizole on Fc epsilon RI receptor–mediated signal transduction processes. Fischer MJ, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):97–105
On the mechanism of the differential effects of NS004 and NS1608 in smooth muscle cells from guinea pig bladder.

Hu S, et al. **Eur J Pharmacol** 1996 Dec 30;318(2-3):461-8

Differential effects of the BKCa channel openers NS004 and NS1608 in porcine coronary arterial cells. Hu S, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):357-60

NS 1619 activates Ca2+-activated K+ currents in rat vas deferens. Huang Y, et al. **Eur J Pharmacol** 1997 Apr 23; 325(1):21-7

Effect of ramosetron on short-circuit current response in rat colonic mucosa. Kiso T, et al. **Eur J Pharmacol** 1997 Feb 12;320(2-3):187-92

Effect of a selective 5-HT3 receptor agonist on gastric motility in fasted and fed dogs. Nagakura Y, et al. **Eur J Pharmacol** 1997 May 30;327(2-3):189-93

Itasetron (DAU 6215) prevents age-related memory deficits in the rat in a multiple choice avoidance task. Pitsikas N, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):115-9

Synergistic action of NS-004 and internal Ca2+ concentration in modulating pulmonary artery K+ channels. Vandier C, et al. **Eur J Pharmacol** 1996 Jan 4; 295(1):53-60

Regulation of [3H]norepinephrine release from guinea pig hippocampus by sigma2 receptors. Weatherspoon JK, et al. **Eur J Pharmacol** 1997 May 20;326(2-3):133-8

A PCR-based method to characterise and identify benzimidazole resistance in Helminthosporium solani. McKay GJ, et al. **FEMS Microbiol Lett** 1997 Jul 15; 152(2):371-8

Effects of K+ channel inhibitors and antagonists on NS-004 evoked relaxations in guinea-pig isolated trachea. Lawson K, et al. **Fundam Clin Pharmacol** 1997;11(1):78-82

Combined effects of the angiotensin II antagonist candesartan cilexetil (TCV-116) and other classes of antihypertensive drugs in spontaneously hypertensive rats. Wada T, et al. **Hypertens Res** 1996 Dec;19(4):247-54

Improvement in baroreflex function by an oral angiotensin receptor antagonist in rats with myocardial infarction. Nishizawa M, et al. **Hypertension** 1997 Jan;29(1 Pt 2):458-63

Inhibition of human eosinophil chemotaxis in vitro by the anti-allergic agent emedastine difumarate. el-Shazly AE, et al. **Immunopharmacol Immunotoxicol** 1996 Nov; 18(4):587-95

Lack of pharmacokinetic interaction between pantoprazole and diclofenac. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S76-80

Pantoprazole does not interact with nifedipine in man under steady-state conditions. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S81-5

Pantoprazole does not interact with nifedipine in man under steady-state conditions. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 Feb;34(2):51-5

Lack of pharmacokinetic interaction between pantoprazole and diclofenac. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 Apr;34(4):152-6

Pantoprazole lacks interaction with antipyrine in man, either by inhibition or induction. De Mey C, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S58-66

Lack of interaction between pantoprazole and digoxin at therapeutic doses in man. Hartmann M, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S67-71

Pantoprazole has no influence on steady state pharmacokinetics and pharmacodynamics of metoprolol in healthy volunteers. Koch HJ, et al. **Int J Clin Pharmacol Ther** 1996 Oct;34(10):420-3

No influence of pantoprazole on the pharmacokinetics of phenytoin. Middle MV, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S72-5

Lack of influence of pantoprazole on the disposition kinetics of theophylline in man. Schulz HU, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S51-7

Lack of pantoprazole drug interactions in man: an updated review. Steinijans VW, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S31-50 (121 ref.)

Beta-tubulin gene polymorphism and benzimidazole resistance in trichostrongylus colubriformis. Grant WN, et al. **Int J Parasitol** 1996 Jan;26(1):71-7

The death rate of Ostertagia circumcincta and Trichostrongylus colubriformis in lactating ewes: implications for anthelmintic resistance. Leathwick DM, et al. **Int J Parasitol** 1997 Apr;27(4):411-6

Effects of the novel T-type calcium channel antagonist mibefradil on human myocardial contractility in comparison with nifedipine and verapamil. Cremers B, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):692-6

Effects of mibefradil on large and small coronary arteries in conscious dogs: role of vascular endothelium. Karila-Cohen D, et al. **J Cardiovasc Pharmacol** 1996 Aug; 28(2):271-7

Effect of calcium channel blockade or angiotensin-converting enzyme inhibition on structure of coronary, renal, and other small arteries in spontaneously hypertensive rats. Li JS, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):68-74

Effect of mibefradil on left ventricular diastolic function in patients with congestive heart failure. Muntinga HJ, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):652-6

Activation of large conductance potassium channels inhibits the afferent and efferent function of airway sensory nerves in the guinea pig. Fox AJ, et al. **J Clin Invest** 1997 Feb 1;99(3):513-9

Effects of leminoprazole, omeprazole and sucralfate on indomethacin-induced delayed healing of kissing gastric ulcers in rats. Tsukimi Y, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):335-40

A comparison of the hypotensive and hypoglycaemic actions of an angiotensin converting enzyme inhibitor, an AT1a antagonist and troglitazone. Chen S, et al. **J Hypertens** 1996 Nov;14(11):1325-30

Synthesis and antiviral activity of certain 5'-modified analogs of 2,5,6-trichloro-1-(beta-D-ribofuranosyl)benzimidazole. Gudmundsson KS, et al. **J Med Chem** 1997 Feb 28; 40(5):785-93

Synthesis and angiotensin II receptor antagonistic activities of benzimidazole derivatives bearing acidic heterocycles as novel tetrazole bioisosteres. Kohara Y, et al. **J Med Chem** 1996 Dec 20;39(26):5228-35

Studies of pyrrolo[1,2-alpha]benzimidazolequinone DT-diaphorase substrate activity, topoisomerase II inhibition activity, and DNA reductive alkylation. Skibo EB, et al. **J Med Chem** 1997 Apr 25;40(9):1327-39

Chemistry of the pyrrolo[1,2-alpha]benzimidazole antitumor agents: influence of the 7-substituent on the ability to alkylate DNA and inhibit topoisomerase II. Zhou R, et al. **J Med Chem** 1996 Oct 11;39(21):4321-31

Design, synthesis, and antiviral evaluation of 2-substituted 4,5-dichloro- and 4,6-dichloro-1-beta-D-ribofuranosylbenzimidazoles as potential agents for human cytomegalovirus infections. Zou R, et al. **J Med Chem** 1997 Feb 28;40(5):802-10

Design, synthesis, and antiviral evaluation of 2-chloro-5,6-dihalo-1-beta-D-ribofuranosylbenzimidazoles as potential agents for human cytomegalovirus infections. Zou R, et al. **J Med Chem** 1997 Feb 28;40(5):811-8

The cytoprotective effect of leminoprazole on indomethacin-induced damage to rabbit gastric mucosal cells. Takahashi S, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):975-82

Regional hemodynamic effects of candesartan cilexetil (TCV-116), an angiotensin II AT1-receptor antagonist, in conscious spontaneously hypertensive rats. Kanagawa R, et al. **Jpn J Pharmacol** 1997 Mar;73(3):185-90

Antiasthma activity of the novel antihistamine E-4716 in guinea pigs in vivo. Cortijo J, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):465-73

Effects of E-4716, a new antihistaminic with antiallergic properties, on chemical mediators induction of immunologic reactions. Gutiérrez B, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul-Aug; 18(6):397-406

Sequences of beta-tubulin cDNA from benzimidazole-susceptible and -resistant strains of Teladorsagia circumcincta, a nematode parasite of small ruminants. Elard L, et al. **Mol Biochem Parasitol** 1996 Aug; 79(2):249-53

Stage specific effects of carbendazim (MBC) on meiotic cell cycle progression in mouse oocytes. Can A, et al. **Mol Reprod Dev** 1997 Mar;46(3):351-62

M-phase specific centrosome-microtubule alterations induced by the fungicide MBC in human granulosa cells. Can A, et al. **Mutat Res** 1997 Jan 3;373(1):139-51

Assessment of DNA damage induced in vitro by etoposide and two fungicides (carbendazim and chlorothalonil) in human lymphocytes with the comet assay. Lebailly P, et al. **Mutat Res** 1997 Apr 29;375(2):205-17

Effects of mibefradil on intracellular Ca2+ release in cultured rat cardiac fibroblasts and human platelets. Eberhard M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):94-101

BIMU1 increases associative memory in rats by activating 5-HT4 receptors. Marchetti-Gauthier E, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):697-706

Contrasting biophysical and pharmacological properties of T-type and R-type calcium channels. Randall AD, et al. **Neuropharmacology** 1997 Jul;36(7):879-93

Effects of 5-HT4 receptor agonists and antagonists in learning. Meneses A, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):347-51

Inhibition of superoxide dismutase from Ascaris suum by benzimidazoles and synthesized pyrimidine and glycine derivatives. Sanchez-Moreno M, et al. **Pharmacology** 1996 Jan;52(1):61-8

Leminoprazole protects cultured gastric mucosal cells against damage caused by ethanol, indometacin and taurocholate. Takahashi S, et al. **Pharmacology** 1997 Mar;54(3):118-26

Toxicity of cadmium in human trophoblast cells (JAr choriocarcinoma): role of calmodulin and the calmodulin inhibitor, zaldaride maleate. Powlin SS, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):225-34

Critical test evaluation (1977-1992) of drug efficacy against endoparasites featuring benzimidazole-resistant small strongyles (population S) in Shetland ponies. Lyons ET, et al. **Vet Parasitol** 1996 Nov 1;66(1-2):67-73

A study (1977-1992) of population dynamics of endoparasites featuring benzimidazole-resistant small strongyles (population S) in Shetland ponies. Lyons ET, et al. **Vet Parasitol** 1996 Nov 1;66(1-2):75-86

Effects of benzimidazole derivatives on cytochrome P450 1A1 expression in a human hepatoma cell line. Krusekopf S, et al. **Xenobiotica** 1997 Jan;27(1):1-9

[A new antiemetic ramosetron hydrochloride] Tsukagoshi S. **Gan To Kagaku Ryoho** 1997 Feb;24(3):371-80 (23 ref.) (Eng. Abstr.) **(Jpn)**

[Studies on the synthesis of cholecystokinin A receptor antagonists. IV. Synthesis and cholecystokinin A receptor inhibitory activities of benzimidazole derivatives] Ajisawa Y, et al. **Yakugaku Zasshi** 1996 Sep;116(9):735-47 (Eng. Abstr.) **(Jpn)**

[Binding ability of rat serum albumin during tetrachloromethane intoxication and administration of anti-oxidants, anti-hypoia agents, and actoprotectors] Dubovaia TK, et al. **Biull Eksp Biol Med** 1996 Dec; 122(12):635-7 **(Rus)**

[Benzimidazolium derivatives with delocalized charge in the cation group as reversible inhibitors of cholinesterases of different origin] Rozengart EV, et al. **Dokl Akad Nauk** 1997 Jul;355(1):123-5 **(Rus)**

[Derivatives of 2-mercaptobenzimidazole--a new group of specific bradycardic drugs] Chichkanov GG, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):23-6 (Eng. Abstr.) **(Rus)**

[Experimental bases of the use of pharmacologic agents aimed at higher heat resistance of humans as means of individual protection] Makarov VI, et al. **Med Tr Prom Ekol** 1997; (5):35-8 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Pantoprazole and omeprazole in the treatment of reflux oesophagitis: a European multicentre study. Corinaldesi R, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):667-71

Efficacy and tolerability of pantoprazole 40 mg versus 80 mg in patients with reflux oesophagitis. van Rensburg CJ, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):397-401

Efficacy of mizolastine, a new antihistamine, compared with placebo in the treatment of chronic idiopathic urticaria. Brostoff J, et al. **Allergy** 1996 May;51(5):320-5

Can an antihistamine delay appearance of hay fever symptoms when given prior to pollen season? Stern MA, et al. **Allergy** 1997 Apr;52(4):440-4

Long-term antianginal and antiischemic effects of mibefradil, the novel T-type calcium channel blocker: a multicenter, double-blind, placebo-controlled, randomized comparison with sustained-release diltiazem. Davies GJ, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):220-8

Additional antianginal and anti-ischemic efficacy of mibefradil in patients pretreated with a beta blocker for chronic stable angina pectoris. Alpert JS, et al. **Am J Cardiol** 1997 Apr 15;79(8):1025-30

Antianginal and anti-ischemic effects of mibefradil in the treatment of patients with chronic stable angina pectoris. Alpert JS, et al. **Am J Cardiol** 1997 Aug 21;80(4B):20C-26C

Mibefradil in the treatment of chronic stable angina pectoris: comparative studies with other calcium antagonists. Davies GJ, et al. **Am J Cardiol** 1997 Aug 21;80(4B):34C-39C

Mibefradil in the treatment of systemic hypertension: comparative studies with other calcium antagonists. Massie BM, et al. **Am J Cardiol** 1997 Aug 21;80(4B):27C-33C

Antihypertensive effects of mibefradil in the treatment of mild-to-moderate systemic hypertension. Oparil S, et al. **Am J Cardiol** 1997 Aug 21;80(4B):12C-19C

The antihypertensive efficacy of the novel calcium antagonist mibefradil in comparison with nifedipine GITS in moderate to severe hypertensives with ambulatory hypertension. Lacourcière Y, et al. **Am J Hypertens** 1997 Feb; 10(2):189-96

Effect of short-term treatment of SHR with the novel calcium channel antagonist mibefradil on function of small arteries. Li JS, et al. **Am J Hypertens** 1997 Jan;10(1):94-100

Dose-response characteristics of mibefradil, a novel calcium antagonist, in the treatment of essential hypertension. Oparil S, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):735-42

Chronic effects of ANG II antagonist in heart failure: improvement of cGMP generation from ANP. Maeda Y, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2139-45

Comparison of oral itasetron with oral ondansetron: results of a double-blind, active-controlled phase II study in chemotherapy-naive patients receiving moderately emetogenic chemotherapy. Goldschmidt H, et al. **Anticancer Drugs** 1997 Jun;8(5):436-44

Naphthalophos combinations with benzimidazoles or levamisole as effective anthelmintics for sheep. Cooper NA, et al. **Aust Vet J** 1996 Sep;74(3):221-4

Chronic T-type Ca2+ channel blockade with mibefradil in hyperinsulinemic, insulin-resistant and hypertensive rats. Verma S, et al. **Cardiovasc Res** 1997 Apr;34(1):121-8

The design of the Mortality Assessment in Congestive Heart Failure Trial (MACH-1, mibefradil). Levine TB. **Clin Cardiol** 1997 Apr;20(4):320-6

Antihypertensive effects of mibefradil: a double-blind comparison with diltiazem CD. Massie BM, et al. **Clin Cardiol** 1997 Jun;20(6):562-8

Effect of an angiotensin II receptor antagonist, TCV-116, on neointimal formation following balloon injury in the SHR carotid artery. Kino H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S360-2

Effects of BIBR-277, an angiotensin II type 1 receptor antagonist, on stunned myocardium in dogs. Izumi H, et al. **Coron Artery Dis** 1996 Oct;7(10):775-9

Pantoprazole. A review of its pharmacological properties and therapeutic use in acid-related disorders [published errata appear in Drugs 1996 Jun;51(6):1074 and 1996 Jul;52(1):92] Fitton A, et al. **Drugs** 1996 Mar;51(3):460-82 (132 ref.)

The acute effects of intravenously administered mibefradil, a new calcium antagonist, on the electrophysiologic

characteristics of the human heart. Rosenquist M, et al. **Eur J Clin Pharmacol** 1997;52(1):7–12

Pantoprazole, a new proton–pump inhibitor, has a precise and predictable profile of activity. Parsons ME. **Eur J Gastroenterol Hepatol** 1996 Oct;8 Suppl 1:S15–20 (45 ref.)

Increased survival after long–term treatment with mibefradil, a selective T–channel calcium antagonist, in heart failure. Mulder P, et al. **J Am Coll Cardiol** 1997 Feb;29(2):416–21

Angiotensin II and calcium blockers prevent glomerular phenotypic changes in remnant kidney model. Hamaguchi A, et al. **J Am Soc Nephrol** 1996 May;7(5):687–93

Mibefradil, a selective calcium T–channel blocker, in stroke–prone spontaneously hypertensive rats. Vacher E, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):686–94

Inhibition of histamine–induced skin wheal and flare after 5 days of mizolastine. Pinquier JL, et al. **J Clin Pharmacol** 1996 Jan;36(1):72–8

Comparative studies on the effect of bithionol, praziquantel and triclabendazole in rabbit's fascioliasis [letter] el–Bahy MM. **J Egypt Soc Parasitol** 1997 Aug;27(2):615–6

Detection of circulating antigens in blood to evaluate treatment of fascioliasis. Hammouda NA, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):365–71

A randomised, double–blind trial comparing mibefradil and amlodipine: two long–acting calcium antagonists with similar efficacy but different tolerability profiles. Mibefradil International Study Group. Viskoper RJ, et al. **J Hum Hypertens** 1997 Jun;11(6):387–93

The effect of central amino acid neurotransmitters on the antihypertensive response to angiotensin blockade in spontaneous hypertension. Yamada K, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1624–30

TCV–116 inhibits renal interstitial and glomerular injury in glomerulosclerotic rats. Shibouta Y, et al. **Kidney Int Suppl** 1996 Jun;55:S115–8

Effects of the AT1–selective angiotensin II antagonist, telmisartan, on hemodynamics and ventricular function after cardiopulmonary resuscitation in pigs. Strohmenger HU, et al. **Resuscitation** 1997 Aug;35(1):61–8

Hepatic fascioliasis: case report and review. Abdul–Hadi S, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jan–Feb; 38(1):69–73 (35 ref.)

Comparison of mizolastine with loratadine in the treatment of perennial allergic rhinitis. Bellioni P, et al. **Rhinology** 1996 Jun;34(2):101–4

Acute and subacute Fasciolosis of alpacas (Lama pacos) and treatment with triclabendazole. Puente GL. **Trop Anim Health Prod** 1997 Feb;29(1):31–2

Comparative efficacies of closantel, ivermectin, oxfendazole, thiophanate and levamisole against thiabendazole resistant Haemonchus contortus in sheep. Waruiru RM, et al. **Trop Anim Health Prod** 1996 Aug;28(3):216–20

Benzimidazole resistance in cyathostomes in horses in the Ukraine. Borgsteede FH, et al. **Vet Parasitol** 1997 Jan; 68(1–2):113–7

Anthelmintic resistant nematodes in goats in The Netherlands. Borgsteede FH, et al. **Vet Parasitol** 1996 Oct 15;65(1–2):83–7

The presence of an early L4 population in relation to the acquired resistance of calves naturally infected with Ostertagia ostertagi. Claerebout E, et al. **Vet Parasitol** 1997 Mar;68(4):337–46

Prophylaxis of bovine trichostrongylidosis and dictyocaulosis in the alpine region: comparison of an early and late administration of the oxfendazole pulse release bolus to first year grazing calves. Hertzberg H, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):181–92

Use of two in vitro methods for the detection of benzimidazole resistance in equine small strongyles (Cyathostoma spp.). Ihler CF, et al. **Vet Parasitol** 1996 Oct 15;65(1–2):117–25

Triclabendazole treatment in experimental goat fasciolosis: anthelmintic efficacy and influence in antibody response and pathophysiology of the disease. Martínez–Moreno A, et al. **Vet Parasitol** 1997 Jan;68(1–2):57–67

Efficacy and pharmacokinetics of triclabendazole in buffalo with induced fasciolosis. Sanyal PK, et al. **Vet Parasitol** 1996 May;63(1–2):75–82

Occurrence of anthelmintic resistant nematodes on sheep farms in England and goat farms in England and Wales. Hong C, et al. **Vet Rec** 1996 Jul 27;139(4):83–6

Efficacy of triclabendazole against Fasciola hepatica in the donkey (Equus asinus). Trawford AF, et al. **Vet Rec** 1996 Aug 10;139(6):142–3

The efficacy and pharmacokinetics of long–term low–level intraruminal administration of triclabendazole in buffalo with induced fasciolosis. Sanyal PK, et al. **Vet Res Commun** 1996;20(5):461–8

[Treatment of duodenal ulcer with pantoprazole. A multicenter study] Frič P, et al. **Cas Lek Cesk** 1996 Dec 4;135(23):758–61 (Eng. Abstr.) **(Cze)**

[Oslerosis of the dog: diagnostic and therapeutic status] Bourdoiseau G, et al. **Parasite** 1994 Dec;1(4):369–78 (Eng. Abstr.) **(Fre)**

[Mibefradil opens up a new class of calcium antagonists. Glasgow, 23 June 1996] **Dtsch Med Wochenschr** 1996 Sep 27;121(39 Suppl):1–4 **(Ger)**

[Progress in new cardiovascular treatment. Background discussion and interview in the Basel Roche Research Center (interview)] Keil U. **Fortschr Med** 1996 Feb 10; 114(4):39–40 **(Ger)**

[Do other proton pump blockers have advantages over Antra (omeprazole)?] Creutzfeldt W. **Internist (Berl)** 1996 Sep; 37(9):936–7 **(Ger)**

[2 new proton pump inhibitors. Possibilities of pantoprazole and lansoprazole] Leonhardt U, et al. **Internist (Berl)** 1996 Sep;37(9):944–9; discussion 949 **(Ger)**

[The influence of treatment on the course of experimental Fasciola hepatica infection and weight gains in sheep] Ramisz G, et al. **Wiad Parazytol** 1997;43(1):69–77 (Eng. Abstr.) **(Pol)**

[The protective action of ethomersol in acute hypobaric hypoxia and during the recovery after it] Kosolapov VA, et al. **Eksp Klin Farmakol** 1996 Nov–Dec;59(6):51–3 (Eng. Abstr.) **(Rus)**

[Use of immunomocorrection in the combined treatment of laryngeal papillomatosis in children] Savenko IV, et al. **Vestn Otorinolaringol** 1996 Jul–Aug;(4):12–4 (Eng. Abstr.) **(Rus)**

[Superiority of pantoprazole over ranitidine in the treatment of duodenal ulcer. Mexican clinical experience. Mexican Study Group of Pantoprazole++ in Duodenal Ulcer] Dibildox M, et al. **Rev Gastroenterol Mex** 1996 Jul–Sep; 61(3):193–8 (Eng. Abstr.) **(Spa)**

TOXICITY

Two–week oral mucosal irritation study with ramosetron orally disintegrating tablets in Syrian hamsters. Cummins HA, et al. **Arzneimittelforschung** 1996 Jul;46(7):673–6

Differential poisoning of human and Aspergillus nidulans DNA topoisomerase I by bi– and terbenzimidazoles. Goldman GH, et al. **Biochemistry** 1997 May 27; 36(21):6488–94

Role of testis exposure levels in the insensitivity of prepubertal rats to carbendazim–induced testicular toxicity. Lim J, et al. **Fundam Appl Toxicol** 1997 Jun;37(2):158–67

Characterization of the high sensitivity of rabbits to the effects of TCV–116, an angiotensin II receptor antagonist. Sato K, et al. **Fundam Appl Toxicol** 1997 Jan;35(1):49–54

Effect of benomyl and carbendazim on steroid and molecular mechanisms in uterine decidual growth in rats. Spencer F, et al. **J Appl Toxicol** 1996 May–Jun;16(3):211–4

Analysis of the flow cytometer stain Hoechst 33342 on human spermatozoa. Watkins AM, et al. **Mol Hum Reprod** 1996 Sep;2(9):709–12

Further observations on carbendazim–induced abnormalities of spermatid morphology in rats. Nakai M, et al. **Tissue Cell** 1997 Aug;29(4):477–85

The role of the benomyl metabolite carbendazim in benomyl–induced testicular toxicity. Lim J, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):401–10

[Intensity of liver tumor promotion effects in rats given repeated oral administrations of benzimidazole compounds] Onodera H, et al. **Eisei Shikenjo Hokoku** 1996;(114):21–6 (Eng. Abstr.) **(Jpn)**

[The anxiolytic effect of the new 2–mercaptobenzimidazole derivative in MR and MNRA rats] Seredinin SB, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):3–5 (Eng. Abstr.) **(Rus)**

BENZINDAMINE see **BENZYDAMINE**

BENZOARIC ACID see **ELLAGIC ACID**

BENZOATES

Effects of an acaricide on mite allergen levels in the homes of asthmatic children. Chew FT, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):483–8

3–(4–Carboxybenzoyl)quinoline–2–carboxaldehyde, a reagent with broad dynamic range for the assay of proteins and lipoproteins in solution. You WW, et al. **Anal Biochem** 1997 Jan 15;244(2):277–82

Benzoolysis of diacylglycerophosphocholines: dephosphorylation and sequential formation of isomeric reaction products. Gelsema WJ, et al. **J Lipid Res** 1996 Jun;37(6):1224–33

A comparative study of N.C.A. fluorine–18 labeling of proteins via acylation and photochemical conjugation. Wester HJ, et al. **Nucl Med Biol** 1996 Apr;23(3):365–72

ADMINISTRATION & DOSAGE

House dust mite avoidance measures improve peak flow and symptoms in patients with allergy but without asthma: a possible delay in the manifestation of clinical asthma? [see comments] Cloosterman SG, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):313–9. Comment in: J Allergy Clin Immunol 1997 Sep;100(3):290–2.

ADVERSE EFFECTS

Perioral contact urticaria from sodium benzoate in a toothpaste. Muñoz FJ, et al. **Contact Dermatitis** 1996 Jul; 35(1):51

Contact bullous pemphigoid? Stransky L, et al. **Contact Dermatitis** 1996 Sep;35(3):182

[Clinico–immunological study of 16 cases of benzoate intolerance in children] Pétrus M, et al. **Allerg Immunol (Paris)** 1997 Feb;29(2):36–8 (Eng. Abstr.) **(Fre)**

[Asthma and intolerance to benzoates] Petrus M, et al. **Arch Pediatr** 1996 Oct;3(10):984–7 (Eng. Abstr.) **(Fre)**

[Effect of an oligo–antigen diet on the behavior of hyperkinetic children] Schulte–Körne G, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):176–83 (Eng. Abstr.) **(Ger)**

ANALYSIS

Enzymic method for the spectrophotometric determination of benzoic acid in soy sauce and pickles. Hamano T, et al. **Analyst** 1997 Mar;122(3):259–62

High–performance liquid chromatographic assay for common sunscreening agents in cosmetic products, bovine serum albumin solution and human plasma. Jiang R, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):137–45

[Determination of benzoic acid in nonalcoholic carbonated soft drinks using the HPLC method] Rodziewicz L, et al. **Rocz Panstw Zakl Hig** 1996;47(4):411–4 (Eng. Abstr.) **(Pol)**

BLOOD

Use of in vitro skin penetration data and a physiologically based model to predict in vivo blood levels of benzoic acid. Macpherson SE, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):436–43

CHEMICAL SYNTHESIS

Enantiospecific synthesis and in vitro activity of selective inhibitors of rat brain kynureninase and kynurenine–3–hydroxylase. Giordani A, et al. **Adv Exp Med Biol** 1996;398:531–4

Synthesis of carbon–11– and fluorine–18–labeled 1–methyl–4–piperidyl–4'–fluorobenzoate and their biodistribution in mice. Bormans G, et al. **Nucl Med Biol** 1996 May;23(4):513–7

Fluorous synthesis: a fluorous–phase strategy for improving separation efficiency in organic synthesis. Studer A, et al. **Science** 1997 Feb 7;275(5301):823–6

CHEMISTRY

Biphenyl–3–carboxylic acid at 296 and 203 K. Blackburn AC, et al. **Acta Crystallogr C** 1996 Sep 15;52 (Pt 9):2320–3

Absolute configuration of (+)–alpha–methyl–4–carboxyphenylglycine (MCPG), a metabotropic glutamate receptor antagonist. Wilson C, et al. **Acta Crystallogr C** 1997 Jul 15;53 (Pt 7):909–11

Labeling proteins at high specific activity using N–succinimidyl 4–[18F](fluoromethyl) benzoate. Lang L, et al. **Appl Radiat Isot** 1997 Feb;48(2):169–73

Reductive cleavage of the positional isomers of benzoylated and methylated methyl alpha–D–mannopyranoside. Rozanas CR, et al. **Carbohydr Res** 1997 Mar 13; 298(4):243–9

NMR spectroscopic and theoretical chemistry studies on the internal acyl migration reactions of the 1–O–acyl–beta–D–glucopyranuronate conjugates of 2–, 3–, and 4–(trifluoromethyl) benzoic acids. Nicholls AW, et al. **Chem Res Toxicol** 1996 Dec;9(8):1414–24

Amidepsine E, an inhibitor of diacylglycerol acyltransferase produced by Humicola sp. FO–5969. Tomoda H, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):929–31

Direct detection of the internal acyl migration reactions of benzoic acid 1–O–acylglucuronide by 13C–labeling and nuclear magnetic resonance spectroscopy. Akira K, et al. **J Pharmacol Toxicol Methods** 1997 Jun;37(4):237–43

The use of pentafluorophenyl derivatives for the 18F labelling of proteins. Herman LW, et al. **Nucl Med Biol** 1994 Oct;21(7):1005–10

Monoclonal antibody F(ab')2 fragment labeled with N–succinimidyl 2,4–dimethoxy–3–halobenzoates: in vivo comparison of iodinated and astatinated fragments. Vaidyanathan G, et al. **Nucl Med Biol** 1994 Jan; 21(1):105–10

63Cu–31P coupling constants and 63Cu quadrupole couplings from 31P CP/MAS spectra of copper (I)––phosphine complexes with aryldithiocarboxylates or benzoate. Asaro F, et al. **Solid State Nucl Magn Reson** 1997 Apr;8(2):81–8

DIAGNOSTIC USE

Tumor uptake and metabolism of copper–67–labeled monoclonal antibody chCE7 in nude mice bearing neuroblastoma xenografts. Novak–Hofer I, et al. **J Nucl Med** 1997 Apr;38(4):536–44

METABOLISM

Benzoate degradation via the ortho pathway in Alcaligenes eutrophus is perturbed by succinate. Ampe F, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2765–70

Biosynthesis of a cyclic tautomer of (3–methylmaleyl)acetone from 4–hydroxy–3,5–dimethylbenzoate by Pseudomonas sp. HH35 but not by Rhodococcus rhodochrous N75. Cain RB, et al. **Biochem Biophys Res Commun** 1997 Sep 8; 238(1):197–201

Lipoic acid impairs glycine conjugation of benzoic acid and renal excretion of benzoylglycine. Gregus Z, et al. **Drug Metab Dispos** 1996 Jun;24(6):682–8

Initial steps in the degradation of 3,4–dimethylbenzoic acid by Pseudomonas putida strain DMB. Baggi G, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):129–34

Benzoic acid metabolism reflects hepatic mitochondrial function in rats with long–term extrahepatic cholestasis. Krähenbühl L, et al. **Hepatology** 1997 Feb;25(2):278–83

BENZOATES

Influence of organic acid excretion on cuticle pH and drug absorption by Haemonchus contortus. Sims SM, et al. **Int J Parasitol** 1996 Jan;26(1):25–35

p–Cymene catabolic pathway in Pseudomonas putida F1: cloning and characterization of DNA encoding conversion of p–cymene to p–cumate. Eaton RW. **J Bacteriol** 1997 May;179(10):3171–80

Novel nuclear magnetic resonance spectroscopy methods demonstrate preferential carbon source utilization by Acinetobacter calcoaceticus. Gaines GL 3rd, et al. **J Bacteriol** 1996 Dec;178(23):6833–41

Shedding light on anaerobic benzene ring degradation: a process unique to prokaryotes? Harwood CS, et al. **J Bacteriol** 1997 Jan;179(2):301–9 (63 ref.)

Cytochrome P450rm from Rhodotorula minuta catalyzes 4–hydroxylation of benzoate. Fukuda H, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):314–8

Mutational analysis reveals that all–trans–retinoic acid, 9–cis–retinoic acid, and antagonist interact with distinct binding determinants of RARalpha. Keidel S, et al. **J Biol Chem** 1997 Jul 18;272(29):18267–72

Extrusion of benzoic acid in Saccharomyces cerevisiae by an energy–dependent mechanism. Henriques M, et al. **Microbiology** 1997 Jun;143 (Pt 6):1877–83

Degradative pathways for p–toluenecarboxylate and p–toluenesulfonate and their multicomponent oxygenases in Comamonas testosteroni strains PSB–4 and T–2. Junker F, et al. **Microbiology** 1996 Sep;142 (Pt 9):2419–27

Tyrosine 8 contributes to catalysis but is not required for activity of rat liver glutathione S–transferase, 1–1. Wang J, et al. **Protein Sci** 1996 Jun;5(6):1032–42

Metabotropic GABA(B) receptors cloned at last. Bowery NG. **Trends Pharmacol Sci** 1997 Apr;18(4):103 (6 ref.)

Benzoic acid accumulation in the Pinus thunbergii callus inoculated with the pine wood nematode, Bursaphelenchus xylophilus. Zhang H, et al. **Z Naturforsch [C]** 1997 May–Jun;52(5–6):329–32

[Effect of human serum albumin on transport of drugs through human erythrocyte membranes] Sakurai M, et al. **Yakugaku Zasshi** 1996 Aug;116(8):630–8 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

Studies on the metabolism and disposition of the new retinoid 4–[(5,6,7,8–tetrahydro–5,5,8,8–tetramethyl–2–naphthyl) carbamoyl] benzoic acid. 2nd communication: absorption, distribution and excretion after single and consecutive subcutaneous administration in rats. Mizojiri K, et al. **Arzneimittelforschung** 1997 Feb;47(2):195–200

Studies on the metabolism and disposition of the new retinoid 4–[(5,6,7,8–tetrahydro–5,5,8,8–tetramethyl–2–naphthyl) carbamoyl]benzoic acid. 3rd communication: placental transfer and excretion into milk in rats. Mizojiri K, et al. **Arzneimittelforschung** 1997 Feb;47(2):201–8

Studies on the metabolism and disposition of the new retinoid 4–[(5,6,7,8–tetrahydro–5,5,8,8–tetramethyl–2–naphthyl) carbamoyl] benzoic acid. 4th communication: absorption, metabolism, excretion and plasma protein binding in various animals and man. Mizojiri K, et al. **Arzneimittelforschung** 1997 Mar;47(3):259–69

Studies on the metabolism and disposition of the new retinoid 4–[(5,6,7,8–tetrahydro–5,5,8,8–tetramethyl–2–naphthyl) carbamoyl]benzoic acid. 5th communication: factors affecting percutaneous absorption in rats. Mizojiri K, et al. **Arzneimittelforschung** 1997 Mar;47(3):270–5

Studies on the metabolism and disposition of the new retinoid 4–[(5,6,7,8–tetrahydro–5,5,8,8–tetramethyl–2–naphthyl) carbamoyl] benzoic acid. 1st communication: absorption, distribution, metabolism and excretion after topical application and subcutaneous administration in rats. Mizojiri K, et al. **Arzneimittelforschung** 1997 Jan; 47(1):59–69

Kinetic evidence for facilitated peritoneal transport of benzoic acid in rats. Nakashima E, et al. **J Pharm Pharmacol** 1996 Apr;48(4):347–50

Synthesis of carbon–11– and fluorine–18–labeled 1–methyl–4–piperidyl–4'–fluorobenzoate and their biodistribution in mice. Bormans G, et al. **Nucl Med Biol** 1996 May;23(4):513–7

Use of in vitro skin penetration data and a physiologically based model to predict in vivo blood levels of benzoic acid. Macpherson SE, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):436–43

Quantitative structure–metabolism relationships for substituted benzoic acids in the rabbit: prediction of urinary excretion of glycine and glucuronide conjugates. Cupid BC, et al. **Xenobiotica** 1996 Feb;26(2):157–76

PHARMACOLOGY

Benzoylalanine analogues as inhibitors of rat brain kynureninase and kynurenine 3–hydroxylase. Giordani A, et al. **Adv Exp Med Biol** 1996;398:499–505

Does benzyl benzoate prevent colonization of new mattresses by mites? A prospective study. Rebmann H, et al. **Allergy** 1996 Dec;51(12):876–82

Hypotensive effects of the angiotensin II antagonist telmisartan in conscious chronically–instrumented transgenic rats. van Meel JC, et al. **Arzneimittelforschung** 1996 Aug;46(8):755–9

Action mechanism of retinoid–synergistic dibenzodiazepines. Umemiya H, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):121–5

The regulation of CD11b integrin levels on human blood leukocytes and leukotriene B4–stimulated skin by a specific leukotriene B4 receptor antagonist (LY293111). van Pelt JP, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):1005–12

Inhibition of ex vivo neutrophil activation by oral LY293111, a novel leukotriene B4 receptor antagonist. Marder P, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):457–64

Antioxidant protection of NO–induced relaxations of the mouse anococcygeus against inhibition by superoxide anions, hydroquinone and carboxy–PTIO. Lilley E, et al. **Br J Pharmacol** 1996 Sep;119(2):432–8

Differences in agonist and antagonist activities for two indices of metabotropic glutamate receptor–stimulated phosphoinositide turnover. Mistry R, et al. **Br J Pharmacol** 1996 Apr;117(8):1735–43

New retinoids and arsenic compounds for the treatment of refractory acute promyelocytic leukemia: clinical and basic studies for the next generation. Kitamura K, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S36–41

A combined approach to reduce mite allergen in the bedroom. Weeks J, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1179–83

Effects of carboxy–PTIO on systemic hemodynamics, liver energetics, and concentration of liver metabolites during endotoxic shock in rabbits: a 31P and 1H magnetic resonance spectroscopic study. Kaneda K, et al. **Crit Care Med** 1997 Jun;25(6):1019–29

Role of thyroid hormone and retinoid receptors in the homeotic transformation of tails into limbs in frogs. Maden M, et al. **Dev Genet** 1996;19(1):85–93

Ligand–bound RXR can mediate retinoid signal transduction during embryogenesis. Lu HC, et al. **Development** 1997 Jan; 124(1):195–203

Preservative–mediated changes of the surface properties of Escherichia coli. Kaul M, et al. **Folia Microbiol (Praha)** 1996;41(2):159–64

Interference of carboxy–PTIO with nitric oxide– and peroxynitrite–mediated reactions. Pfeiffer S, et al. **Free Radic Biol Med** 1997;22(5):787–94

4–methylthiobenzoic acid protection against cisplatin nephrotoxicity: antioxidant system. Husain K, et al. **Fundam Appl Toxicol** 1996 Aug;32(2):278–84

Evaluation of media for enumerating heat–stressed, benzoate–resistant Zygosaccharomyces bailii. Makdesi AK, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):169–81

Amidepsine E, an inhibitor of diacylglycerol acyltransferase produced by Humicola sp. FO–5969. Tomoda H, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):929–31

Control of microbiological quality and shelf–life of catfish (Clarias gariepinus) by chemical preservatives and smoking. Efiuvwevwere BJ, et al. **J Appl Bacteriol** 1996 May; 80(5):465–70

Quantitative structure activity relationship for the effect of benzoic acids, cinnamic acids and benzaldehydes on Listeria monocytogenes. Ramos–Nino ME, et al. **J Appl Bacteriol** 1996 Mar;80(3):303–10

Phosphorylation–independent bacterial chemoresponses correlate with changes in the cytoplasmic level of fumarate. Montrone M, et al. **J Bacteriol** 1996 Dec;178(23):6882–7

Convergence of Schiff base costimulatory signaling and TCR signaling at the level of mitogen–activated protein kinase ERK2. Chen H, et al. **J Immunol** 1997 Sep 1;159(5):2274–81

Frequency–dependent depression of excitatory synaptic transmission is independent of activation of MCPG–sensitive presynaptic metabotropic glutamate receptors in cultured hippocampal neurons. Maki R, et al. **J Neurophysiol** 1995 Oct;74(4):1671–4

Study of interaction effects of polyacrylic acid polymers (carbopol 940) on antimicrobial activity of methyl parahydroxybenzoate against some gram–negative, gram–positive bacteria and yeast. Scalzo M, et al. **J Pharm Pharmacol** 1996 Nov;48(11):1201–5

Receptor specificity of retinoid–induced epidermal hyperplasia: effect of RXR–selective agonists and correlation with topical irritation. Thacher SM, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):528–34

Differential effect of benexate hydrochloride betadex on prostaglandin levels in stomach and inflammatory site in rats. Hori Y, et al. **Jpn J Pharmacol** 1996 Oct;72(2):183–90

Pharmacological characterization of synaptic transmission through mGluRs in rat cerebellar slices. Batchelor AM, et al. **Neuropharmacology** 1997 Mar;36(3):401–3

Effects of the metabotropic glutamate receptor antagonist MCPG on spatial and context–specific learning. Bordi F, et al. **Neuropharmacology** 1996;35(11):1557–65

Sodium benzoate differentially blocks circling induced by D–and L–dopa in the hemi–parkinsonian rat. Moses J, et al. **Neurosci Lett** 1996 Nov 8;218(3):145–8

Intrastriatal injection of the metabotropic glutamate receptor antagonist MCPG attenuates acute amphetamine–stimulated neuropeptide mRNA expression in rat striatum. Wang JQ, et al. **Neurosci Lett** 1996 Oct 25;218(1):13–6

[Effect of carboxy–PTIO (NO scavenger) on rabbit vascular smooth muscle] Yoshida M, et al. **J Smooth Muscle Res** 1995 Dec;31(6):437–9 **(Jpn)**

THERAPEUTIC USE

Chronic sodium benzoate therapy in children with inborn errors of urea synthesis: effect on carnitine metabolism and ammonia nitrogen removal. Feoli–Fonseca JC, et al. **Biochem Mol Med** 1996 Feb;57(1):31–6

Treatment with a new synthetic retinoid, Am80, of acute promyelocytic leukemia relapsed from complete remission induced by all–trans retinoic acid. Tobita T, et al. **Blood** 1997 Aug 1;90(3):967–73

Re–induction of complete remission with a new synthetic retinoid, Am–80, for relapse of acute promyelocytic leukaemia previously treated with all–trans retinoic acid. Takeuchi M, et al. **Br J Haematol** 1997 Apr;97(1):137–40

New retinoids and arsenic compounds for the treatment of refractory acute promyelocytic leukemia: clinical and basic studies for the next generation. Kitamura K, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S36–41

Effects of BIBR–277, an angiotensin II type 1 receptor antagonist, on stunned myocardium in dogs. Izumi H, et al. **Coron Artery Dis** 1996 Oct;7(10):775–9

Covalent chemical events in immune induction: fundamental and therapeutic aspects [see comments] Rhodes J. **Immunol Today** 1996 Sep;17(9):436–41 (44 ref.). Comment in: Immunol Today 1997 Jul;18(7):362.

The effects of a mouthrinse containing sodium benzoate and alcohol on the quantity and metabolism of dental plaque. Danielsen B, et al. **Int Dent J** 1996 Apr;46(2):91–6

Crusted scabies associated with systemic lupus erythematosus: response to benzyl benzoate therapy. Chutimunt N. **J Med Assoc Thai** 1996 Jan;79(1):65–8 (10 ref.)

Prognostic clues and outcome of early treatment of nonketotic hyperglycinemia. Boneh A, et al. **Pediatr Neurol** 1996 Sep;15(2):137–41

Effects of the AT1–selective angiotensin II antagonist, telmisartan, on hemodynamics and ventricular function after cardiopulmonary resuscitation in pigs. Strohmenger HU, et al. **Resuscitation** 1997 Aug;35(1):61–8

Leukotriene B4 and asthma [editorial; comment] Christie PE, et al. **Thorax** 1996 Dec;51(12):1171–3. Comment on: Thorax 1996 Dec;51(12):1178–84.

TOXICITY

Evidence against a permissive role of the metabotropic glutamate receptor 1 in acute excitotoxicity. Ferraguti F, et al. **Neuroscience** 1997 Jul;79(1):1–5

Pharmacological analysis of local anaesthetic tolycaine–induced convulsions by modification of monoamines in rat brain. Satoh T, et al. **Pharmacol Toxicol** 1996 Dec;79(6):305–11

Relation of TGF–beta 2 to inhibition of limb bud chondrogenesis by retinoid in rats. Tsuiki H, et al. **Teratology** 1996 Oct;54(4):191–7

Multiple factors contribute to the toxicity of the aromatic retinoid, TTNPB (Ro 13–7410): binding affinities and disposition. Pignatello MA, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):319–27

[The validation of the maximum permissible concentration of pyromellitic dianhydride in the atmosphere] Sokolov SM, et al. **Gig Sanit** 1997 Mar–Apr;(2):6–8 (Eng. Abstr.) **(Rus)**

URINE

Excretion of benzoic acid derivatives in urine of sheep given intraruminal infusions of 3–phenylpropionic and cyclohexanecarboxylic acids. Pagella JH, et al. **Br J Nutr** 1997 Apr;77(4):577–92

Biological monitoring of deltamethrin exposure in greenhouses. Tuomainen A, et al. **Int Arch Occup Environ Health** 1996;69(1):62–4

Laser induced resonance energy transfer––a novel approach towards achieving high sensitivity in capillary electrophoresis. I. Clinical diagnostic application. Petersen JR, et al. **J Chromatogr A** 1996 Sep 13;744(1–2):37–44

Determination of aromatic metabolites in ruminant urine by high–performance liquid chromatography. Chen XB, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):201–8

Identification of Gingko biloba flavonol metabolites after oral administration to humans. Pietta PG, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):249–55

Analytical method for the determination of urinary 3–phenoxybenzoic acid in subjects occupationally exposed to pyrethroid insecticides. Aprea C, et al. **J Chromatogr B Biomed Sci Appl** 1997 Aug 1;695(2):227–36

BENZOCAINE

ADMINISTRATION & DOSAGE

Topical liposomal system for localized and controlled drug delivery. Singh R, et al. **J Dermatol Sci** 1996 Nov; 13(2):107–11

ADVERSE EFFECTS

Potential for an external vaginal antiitch cream containing benzocaine to cause methemoglobinemia in healthy women. Currie JL, et al. **Am J Obstet Gynecol** 1997 May; 176(5):1006–8

Methemoglobinemia induced by an over–the–counter medication. Tush GM, et al. **Ann Pharmacother** 1996 Nov; 30(11):1251–4

Toxic methemoglobinemia after topical anesthesia for transesophageal echocardiography. Grauer SE, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):874–6

Methemoglobinemia caused by benzocaine topical spray.

Cooper HA. **South Med J** 1997 Sep;90(9):946–8 (15 ref.)
Methemoglobinemia secondary to benzocaine topical anesthetic. Lee E, et al. **Surg Laparosc Endosc** 1996 Dec; 6(6):492–3

ANALOGS & DERIVATIVES

Epidural and intrathecal n–butyl–p–aminobenzoate solution in the rat. Comparison with bupivacaine. Grouls RJ, et al. **Anesthesiology** 1997 Jan;86(1):181–7
The local anesthetic, n–butyl–p–aminobenzoate, reduces rat sensory neuron excitability by differential actions on fast and slow Na+ current components. Van den Berg RJ, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):87–95
Partition coefficients (n–octanol/water) of N–butyl–p–aminobenzoate and other local anesthetics measured by reversed–phase high–performance liquid chromatography. Grouls RJ, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):421–5
Capillary gas chromatographic method for the determination of n–butyl–p–aminobenzoate and lidocaine in plasma samples. Grouls RJ, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):51–7

METABOLISM

Metabolism of benzocaine during percutaneous absorption in the hairless guinea pig: acetylbenzocaine formation and activity. Kraeling ME, et al. **Skin Pharmacol** 1996; 9(3):221–30

PHARMACOLOGY

[The effect of CO2 on conduction blocking in nerve fibers by trimecaine and anestezin] Mangusheva NA, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):14–5 (Eng. Abstr.) **(Rus)**
[The effect of CO2 on the blocking of excitation conduction by local anesthetics in feline A–delta and C fibers] Mangusheva NA, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):15–9 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Efficacy of Auralgan for treating ear pain in children with acute otitis media. Hoberman A, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):675–8

BENZOCYCLOHEPTENES

METABOLISM

Oxidation of 6,7–dihydro–5H–benzocycloheptene by bacterial strains expressing naphthalene dioxygenase, biphenyl dioxygenase, and toluene dioxygenase yields homochiral monol or cis–diol enantiomers as major products. Resnick SM, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1364–8

PHARMACOLOGY

Molecular structure and antioxidant specificity of purpurogallin in three types of human cardiovascular cells. Wu TW, et al. **Biochem Pharmacol** 1996 Oct 11; 52(7):1073–80
Purpurogallin inhibits DNA synthesis of murine fibrosarcoma L–929 and human U–87 MG glioblastoma cells in vitro. Fung KP, et al. **Chemotherapy** 1996 May–Jun;42(3):199–205
Inhibition of PhIP mutagenicity by catechins, and by theaflavins and gallate esters. Apostolides Z, et al. **Mutat Res** 1997 Mar 17;389(2–3):167–72

THERAPEUTIC USE

Evaluation of himachalol in murine invasive aspergillosis. Chowdhry L, et al. **Mycoses** 1996 Nov–Dec; 39(11–12):449–52

BENZODIAZEPINE–GABA RECEPTORS see **RECEPTORS, GABA–A**

BENZODIAZEPINE TRANQUILIZERS see **ANTI–ANXIETY AGENTS, BENZODIAZEPINE**

BENZODIAZEPINES

see related
ANTI–ANXIETY AGENTS, BENZODIAZEPINE RECEPTORS, GABA–A

Benzodiazepines in primary health care: a survey of general practitioners prescribing patterns. Boixet M, et al. **Addiction** 1996 Apr;91(4):549–56
ABC of mental health. Addiction and dependence––I: Illicit drugs. Gerada C, et al. **BMJ** 1997 Aug 2;315(7103):297–300 (0 ref.)
An epidemiological survey on use and abuse of antianxiety drugs among Beijing residents. Jiang Z, et al. **Chin Med J (Engl)** 1996 Oct;109(10):801–6
Opioid and benzodiazepine tolerance and dependence: application of theory to critical care practice. Puntillo K, et al. **Heart Lung** 1997 Jul–Aug;26(4):317–24 (32 ref.)
Benzodiazepine use in Chile: impact of availability on use, abuse, and dependence. Busto UE, et al. **J Clin Psychopharmacol** 1996 Oct;16(5):363–72
Estimating the prevalence of drug misuse in Dundee, Scotland: an application of capture–recapture methods. Hay G, et al. **J Epidemiol Community Health** 1996 Aug; 50(4):469–72
Severe opioid toxicity and somatization of psychosocial distress in a cancer patient with a background of chemical dependence. Lawlor P, et al. **J Pain Symptom Manage** 1997 Jun;13(6):356–61
Benzodiazepine use and the risk of motor vehicle crash in the elderly [see comments] Hemmelgarn B, et al. **JAMA** 1997 Jul 2;278(1):27–31. Comment in: **JAMA** 1997 Jul 2;278(1):66–7.
From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Jul 2;278(1):15
Safety and mobility of the older driver: a research challenge [editorial; comment] Ray WA. **JAMA** 1997 Jul 2; 278(1):66–7. Comment on: **JAMA** 1997 Jul 2;278(1):27–31.
Misuse of benzodiazepine [editorial] Javed MA. **JPMA J Pak Med Assoc** 1995 Nov;45(11):289–90
Anxiety disorders, comorbid substance abuse, and benzodiazepine discontinuation: implications for treatment. Barlow DH. **NIDA Res Monogr** 1997;172:33–51 (48 ref.)
Natural benzodiazepines and hepatic encephalopathy. Mullen KD, et al. **Semin Liver Dis** 1996 Aug;16(3):255–64 (82 ref.)
[Crystal forms, improvements of dissolution and absorption of poorly water–soluble (R)–1–[2,3–dihydro–1–(2'–methylphenacyl)–2–oxo–5–phenyl–1H–1, 4–benzodiazepin–3–yl]–3–(3–methylphenyl)urea (YM022)] Yano K, et al. **Yakugaku Zasshi** 1996 Aug;116(8):639–46 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Patient Stage of Change predicts outcome in a panic disorder medication trial. Beitman BD, et al. **Anxiety** 1994;1(2):64–9
Gradual withdrawal from benzodiazepines in residents of homes for the elderly: experience and suggestions for future research. Habraken H, et al. **Eur J Clin Pharmacol** 1997; 51(5):355–8
Benzodiazepine consumption in Spain [letter] Rayón P, et al. **Eur J Clin Pharmacol** 1997;52(4):321–3
[Benzodiazepine prescriptions in general practice. An analysis of the pattern of use in first time users] Bjerrum L, et al. **Ugeskr Laeger** 1996 Sep 30;158(40):5616–9 (Eng. Abstr.) **(Dan)**
[Clinical investigations of an i.m. combination anesthesia with fentanylclimazolam/xylazine and postoperative i.v. antagonism with naloxone/sarmazenil/yohimbine in guinea pigs] Henke J, et al. **Tierarztl Prax** 1996 Feb;24(1):85–7 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Clonidine prophylaxis for narcotic and sedative withdrawal syndrome following laryngotracheal reconstruction. Deutsch ES, et al. **Arch Otolaryngol Head Neck Surg** 1996 Nov;122(11):1234–8
More evidence linking benzodiazepines and falls. Grad R. **Can Fam Physician** 1997 Aug;43:1367–8
Diagnosis and management of opioid– and benzodiazepine–induced comatose overdose in children. Perry HE, et al. **Curr Opin Pediatr** 1996 Jun;8(3):243–7 (36 ref.)
Nicotine, caffeine and alcohol use in high– and low–dose benzodiazepine users. Lekka NP, et al. **Drug Alcohol Depend** 1997 May 2;45(3):207–12
Long–term use of benzodiazepines: tolerance, dependence and clinical problems in anxiety and mood disorders. Michelini S, et al. **Pharmacopsychiatry** 1996 Jul; 29(4):127–34 (93 ref.)
Effects of flumazenil in the treatment of benzodiazepine withdrawal––a double–blind pilot study. Saxon L, et al. **Psychopharmacology (Berl)** 1997 May;131(2):153–60
Benzodiazepines: tolerability in elderly patients. Lechin F, et al. **Psychother Psychosom** 1996;65(4):171–82 (202 ref.)
Hepatic encephalopathy in liver transplant recipients precipitated by benzodiazepines present in transfused blood. Zeneroli ML, et al. **Transplantation** 1996 Sep 27;62(6):764–7

AGONISTS

Effects of the benzodiazepine inverse agonist RO19–4603 alone and in combination with the benzodiazepine receptor antagonists flumazenil, ZK 93426 and CGS 8216, on ethanol intake in alcohol–preferring (P) rats. June HL, et al. **Brain Res** 1996 Sep 23;734(1–2):19–34

ANALYSIS

Analysis of toxic drugs by capillary electrophoresis using polyacrylamide–coated columns. Jinno K, et al. **Electrophoresis** 1997 Feb;18(2):284–6
Detection of benzodiazepines and other psychotropic drugs in human hair by GC/MS. Yegles M, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):211–8
Improved CEDIA benzodiazepine assay eliminates sertraline crossreactivity. Fitzgerald RL, et al. **J Anal Toxicol** 1997 Jan–Feb;21(1):32–5
Determination of 1,4–benzodiazepines by high–performance liquid chromatography–electrospray tandem mass spectrometry. Kleinschnitz M, et al. **J Chromatogr B Biomed Appl** 1996 Feb 9;676(1):61–7
[Optimized analysis of benzodiazepines after derivatization with MTBSTFA] Ahrens B, et al. **Arch Kriminol** 1996 May–Jun;197(5–6):142–8 **(Ger)**
[The analysis of grandaksin in cadaveric material] Bodrina DE, et al. **Sud Med Ekspert** 1996 Oct–Dec;39(4):45–7 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Midazolam–flumazenil topical anaesthesia for microlaryngoscopy with jet ventilation. Rushatamukayanunt W, et al. **Anaesth Intensive Care** 1997 Aug;25(4):358–64
Does midazolam cause retrograde amnesia, and can flumazenil reverse that amnesia? Koht A, et al. **Anesth Analg** 1997 Jul;85(1):211–2
PK 11195 blockade of benzodiazepine–induced inhibition of forskolin–stimulated adenylate cyclase activity in the striatum. Tenn CC, et al. **Br J Pharmacol** 1996 Sep; 119(2):223–8
Flumazenil associated seizure in an 11–month–old child. Davis CO, et al. **J Emerg Med** 1996 May–Jun;14(3):331–3
[Sedation in endoscopic diagnosis: rationale of the use of specific benzodiazepine antagonists] Chillemi S, et al. **G Chir** 1996 Jun–Jul;17(6–7):349–52 (Eng. Abstr.) **(Ita)**

BLOOD

Effects of serum separation tubes on serum benzodiazepine and phenobarbital concentrations in clinically normal and epileptic dogs. Boothe DM, et al. **Am J Vet Res** 1996 Sep; 57(9):1299–303
Immunoassay detection of benzodiazepines and benzodiazepine metabolites in blood. Huang W, et al. **J Anal Toxicol** 1995 Oct;19(6):333–42
Automated on–line solid–phase extraction–gas chromatography with nitrogen–phosphorus detection: determination of benzodiazepines in human plasma. Louter AJ, et al. **J Chromatogr B Biomed Appl** 1997 Feb 7; 689(1):35–43
Quantitative determination of imidazenil, a novel imidazobenzodiazpine carboxamide derivative, by normal phase high–performance liquid chromatography. Mariot R, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23; 677(1):190–3
Simultaneous determination of nerisopam, a novel anxiolytic agent showing polymorphic metabolism, and its N–acetyl metabolite from human plasma by a validated high performance liquid chromatographic method. Rona K, et al. **J Chromatogr B Biomed Appl** 1996 Mar 29;678(1):63–72
Simultaneous determination of twelve benzodiazepines in human serum using a new reversed–phase chromatographic column on a 2–microns porous microspherical silica gel. Tanaka E, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):173–8
Application of capillary electrophoresis to the simultaneous screening and quantitation of benzodiazepines. Tomita M, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12; 678(2):331–7
Liquid chromatographic–thermospray tandem mass spectrometric quantitative analysis of some drugs with hypnotic, sedative and tranquillising properties in whole blood. Verweij AM, et al. **J Chromatogr B Biomed Appl** 1996 Nov 8;686(1):27–34
Detection of alprazolam in three cases of methadone/benzodiazepine overdose. Rogers WO, et al. **J Forensic Sci** 1997 Jan;42(1):155–6
Automated on–line dialysis for sample preparation for gas chromatography: determination of benzodiazepines in human plasma. Herráez–Hernández R, et al. **J Pharm Biomed Anal** 1996 Jun;14(8–10):1077–87
Micellar electrokinetic capillary chromatography of benzodiazepine antiepileptics and their desmethyl metabolites in blood. Imazawa M, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1503–8
Effect of benzodiazepines on plasma levels of homovanillic acid in anxious patients and control subjects. Wingerson DK, et al. **Psychiatry Res** 1996 Nov 1;65(1):53–9
Low picogram determination of Ro 48–6791 and its major metabolite, Ro 48–6792, in plasma with column–switching microbore high–performance liquid chromatography coupled to ion spray tandem mass spectrometry. Zell M, et al. **Rapid Commun Mass Spectrom** 1997;11(10):1107–14
Endogenous benzodiazepine activity in the peripheral and portal blood of dogs with congenital portosystemic shunts. Aronson LR, et al. **Vet Surg** 1997 May–Jun;26(3):189–94

CHEMICAL SYNTHESIS

A new efficient method for the synthesis of 1,4–benzodiazepine–2,5–dione diversomers. Moroder L, et al. **Biopolymers** 1996 Mar;38(3):295–300
Synthesis and biological evaluation of a new reversely linked type of dual histamine H2 and gastrin receptor antagonist. Kawanishi Y, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan; 45(1):116–24

CHEMISTRY

Characterization of benzodiazepine "combinatorial" chemical libraries by on–line immunoaffinity extraction, coupled column HPLC–ion spray mass spectrometry–tandem mass spectrometry. Nedved ML, et al. **Anal Chem** 1996 Dec 1;68(23):4228–36
Micro–extraction of commonly abused benzodiazepines for urinary screening by liquid chromatography. Wolff K, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):61–7

BENZODIAZEPINES

Synthesis of novel succinamide derivatives having the 5,11-dihydro-6H-pyrido[2,3-b][1,4]benzodiazepin-6-one skeleton as potent and selective M2 muscarinic receptor antagonists. I. Watanabe T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):996-1007

Optimization of 3-(1H-indazol-3-ylmethyl)-1,5-benzodiazepines as potent, orally active CCK-A agonists. Henke BR, et al. **J Med Chem** 1997 Aug 15;40(17):2706-25

Crystal structures of 8-Cl and 9-Cl TIBO complexed with wild-type HIV-1 RT and 8-Cl TIBO complexed with the Tyr181Cys HIV-1 RT drug-resistant mutant. Das K, et al. **J Mol Biol** 1996 Dec 20;264(5):1085-100

HPLC resolution of C5 chiral 4,5-dihydro-1,4-benzodiazepines: stereochemical characterization and enantioselective GABAA receptor binding. Bertucci C, et al. **J Pharm Biomed Anal** 1997 Mar; 15(6):803-9

Synthesis and evaluation of 1,4-benzodiazepine libraries. Bunin BA, et al. **Methods Enzymol** 1996;267:448-65

CONTRAINDICATIONS

Benzodiazepines: tolerability in elderly patients. Lechin F, et al. **Psychother Psychosom** 1996;65(4):171-82 (202 ref.)

ISOLATION & PURIFICATION

Solid-phase extraction and on-disc derivatization of the major benzodiazepines in urine using enzyme hydrolysis and Toxi-Lab VC MP3 column. King JW, et al. **J Anal Toxicol** 1996 Jul-Aug;20(4):262-5

Chiral separation of optically active 2,3-benzodiazepine derivatives by high performance liquid chromatography. Bidló-Iglóy M. **J Pharm Biomed Anal** 1996 Jun; 14(8-10):1389-94

METABOLISM

Alterations of the benzodiazepine site of rat alpha 6 beta 2 gamma 2-GABAA receptor by replacement of several divergent amino-terminal regions with the alpha 1 counterparts. Im WB, et al. **Br J Pharmacol** 1997 Feb; 120(4):559-64

Sex differences in bicuculline-induced convulsions: interaction with stress and ligands of benzodiazepine binding sites. Perićić D, et al. **Brain Res** 1997 Mar 28; 752(1-2):279-84

Changes in specific binding sites of girisopam after chemical and surgical lesions in the striato-nigral system. Horváth EJ, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):141-4

In vitro stability and in vivo absorption studies of colloidal particles formed from a solid dispersion system. Yano K, et al. **Chem Pharm Bull (Tokyo)** 1996 Dec;44(12):2309-13

Chronic ethanol exposure selectively increases diazepam-insensitive [3H]RO15-4513 binding in mouse cerebellum. Becker HC, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):43-6

Pharmacological profile of benzodiazepine site ligands with recombinant GABAA receptor subtypes. Graham D, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):119-25

Platelet and lymphocyte benzodiazepine binding in patients with Alzheimer's disease. Bongioanni P, et al. **Exp Neurol** 1997 Aug;146(2):560-6

Immunoassay detection of benzodiazepines and benzodiazepine metabolites in blood. Huang W, et al. **J Anal Toxicol** 1995 Oct;19(6):333-42

Subtle changes in residue 77 of the gamma subunit of alpha1beta2gamma2 GABAA receptors drastically alter the affinity for ligands of the benzodiazepine binding site. Buhr A, et al. **J Biol Chem** 1997 May 2;272(18):11799-804

5-(Piperidin-2-yl)- and 5-(homopiperidin-2-yl)-1,4-benzodiazepines: high-affinity, basic ligands for the cholecystokinin-B receptor. Castro JL, et al. **J Med Chem** 1997 Aug 1; 40(16):2491-501

Genetic neural networks for quantitative structure-activity relationships: improvements and application of benzodiazepine affinity for benzodiazepine/GABAA receptors. So SS, et al. **J Med Chem** 1996 Dec 20; 39(26):5246-56

T lymphocyte benzodiazepine binding is reduced in demented patients. Bongioanni P, et al. **J Neuroimmunol** 1997 Mar; 73(1-2):101-6

Effects of benzodiazepine agonist exposure on corticotropin-releasing factor content and hormonal stress responses: divergent responses in male and ovariectomized female rats. Wilson MA, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1073-82

The pharmacology of the benzodiazepine site of the GABA-A receptor is dependent on the type of gamma-subunit present. McKernan RM, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1-4):173-83

Two tyrosine residues on the alpha subunit are crucial for benzodiazepine binding and allosteric modulation of gamma-aminobutyric acidA receptors. Amin J, et al. **Mol Pharmacol** 1997 May;51(5):833-41

Benzodiazepine binding inhibitory activity: new supportive findings on its presence in psychiatric patients and further biochemical analyses. Marazziti D, et al. **Neuropsychobiology** 1996;34(1):9-13

Sex differences in benzodiazepine binding in the frontal cortex and amygdala of the rat 24 hours after restraint stress. Farabollini F, et al. **Neurosci Lett** 1996 Nov 8; 218(3):177-80

Development of 123I-labelled NNC 13-8241 as a radioligand for SPECT visualization of benzodiazepine receptor binding. Foged C, et al. **Nucl Med Biol** 1996 Apr; 23(3):201-9

Regional densities of benzodiazepine sites in the CNS of alcohol-naive P and NP rats. Thielen RJ, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):875-82

A point mutation in the gamma2 subunit of gamma-aminobutyric acid type A receptors results in altered benzodiazepine binding site specificity. Buhr A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8824-9

PHARMACOKINETICS

Identification of domains in human recombinant GABAA receptors that are photoaffinity labelled by [3H]flunitrazepam and [3H]Ro15-4513. Davies M, et al. **Neuropharmacology** 1996;35(9-10):1199-208

Benzodiazepine site pharmacokinetic/pharmacodynamic quantification in man: direct measurement of drug occupancy and effects on the human brain in vivo. Malizia AL, et al. **Neuropharmacology** 1996;35(9-10):1483-91

Benzodiazepine receptor distribution and diazepam binding in schizophrenia: an exploratory study. Schröder J, et al. **Psychiatry Res** 1997 Feb 7;68(2-3):125-31

[RO 48-6791--a short acting benzodiazepine. Pharmacokinetics and pharmacodynamics in young and old subjects in comparison to midazolam] Hering W, et al. **Anaesthesist** 1996 Dec;45(12):1211-4 (Eng. Abstr.) **(Ger)**

[Pharmacokinetic study of nerisopam and its n-acetyl metabolite in rats] Ary K, et al. **Acta Pharm Hung** 1997 Mar-May;67(2-3):59-63 (Eng. Abstr.) **(Hun)**

[Human pharmacokinetic study of nerisopam and its n-acetyl metabolite] Róna K, et al. **Acta Pharm Hung** 1997 Mar-May;67(2-3):65-71 (Eng. Abstr.) **(Hun)**

PHARMACOLOGY

Effects of benzodiazepines, sleep and sleep deprivation on vigilance and memory. Coenen AM, et al. **Acta Neurol Belg** 1997 Jun;97(2):123-9

The Ras farnesylation inhibitor BZA-5B increases the resistance to cisplatin in a human melanoma cell line. Fokstuen T, et al. **Anticancer Res** 1997 Jul-Aug; 17(4A):2347-52

Interactions of MK-801 and GYKI 52466 with morphine and amphetamine in place preference conditioning and behavioural sensitization. Tzschentke TM, et al. **Behav Brain Res** 1997 Mar;84(1-2):99-107

Effects of the benzodiazepine receptor inverse agonist Ro 15-4513 on the ingestion of sucrose and sodium saccharin solutions: a microstructural analysis of licking behavior. Higgs S, et al. **Behav Neurosci** 1996 Jun;110(3):559-66

YM022 [(R)-1-[2,3-dihydro-1-(2'-methylphenacyl)-2-oxo-5-phenyl-1H-1,4-benzodiazepin-3-yl]-3-(3-methylphenyl)urea]: an irreversible cholecystokinin type-B receptor antagonist. Dunlop J, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):81-5

Antagonism by benzodiazepines of the effects of serotonin-, but not norepinephrine-, uptake blockers in the learned helplessness paradigm in rats. Martin P, et al. **Biol Psychiatry** 1996 May 15;39(10):882-90

Time-course of deactivation of rat stomach ECL cells following cholecystokinin B/gastrin receptor blockade. Ding XQ, et al. **Br J Pharmacol** 1997 Sep;122(1):1-6

Characterization of the muscarinic receptor subtype(s) mediating contraction of the guinea-pig lung strip and inhibition of acetylcholine release in the guinea-pig trachea with the selective muscarinic receptor antagonist tripitramine. Roffel AF, et al. **Br J Pharmacol** 1997 Sep; 122(1):133-41

PK 11195 blockade of benzodiazepine-induced inhibition of forskolin-stimulated adenylate cyclase activity in the striatum. Tenn CC, et al. **Br J Pharmacol** 1996 Sep; 119(2):223-8

Allosteric interactions between cyclothiazide and AMPA/kainate receptor antagonists. Yamada KA, et al. **Br J Pharmacol** 1996 Apr;117(8):1663-72

gamma-aminobutyric acidA receptor regulation: heterologous uncoupling of modulatory site interactions induced by chronic steroid, barbiturate, benzodiazepine, or GABA treatment in culture. Friedman LK, et al. **Brain Res** 1996 Jan 22;707(1):100-9

Characterization of a benzodiazepine receptor site with exceptionally high affinity for Ro 15-4513 in the rat CNS. Mehta AK, et al. **Brain Res** 1995 Dec 18;704(2):289-97

Neuronal mechanisms mediating drug-induced cognition enhancement: cognitive activity as a necessary intervening variable. Sarter M, et al. **Brain Res Cogn Brain Res** 1996 Jun;3(3-4):329-43 (127 ref.)

Allosteric modulation by single enantiomers of a C3-chiral 1,4-benzodiazepine of the gamma aminobutyric acid type A receptor channel expressed in Xenopus oocytes. Demuro A, et al. **Chirality** 1997;9(3):286-90

GABA physiology: modulation by benzodiazepines and hormones. Wilson MA. **Crit Rev Neurobiol** 1996;10(1):1-37 (249 ref.)

YM022, a potent and selective gastrin/CCK-B receptor antagonist, inhibits peptone meal-induced gastric acid secretion in Heidenhain pouch dogs. Yuki H, et al. **Dig Dis Sci** 1997 Apr;42(4):707-14

Pharmacodynamic response to Ro15-4513 in ethanol intoxicated dogs. Whitmire D, et al. **Drug Metabol Drug Interact** 1996;13(2):99-109

GYKI 53665, a 2,3-benzodiazepine, non-competitively protects cultured neurones against AMPA toxicity. Kovács AD, et al. **Eur J Pharmacol** 1997 Jul 16;331(1):93-6

Anxiolytic homophthalazines increase Fos-like immunoreactivity in selected brain areas of the rat. Palkovits M, et al. **Eur J Pharmacol** 1997 Jul 16; 331(1):53-63

Ro 15-4513 potentiates, instead of antagonizes, ethanol-induced sleep in mice exposed to small platform stress. Pokk P, et al. **Eur J Pharmacol** 1996 Dec 12; 317(1):15-20

Azirino[1, 2-d][1, 4]benzodiazepine derivatives and related 1,4-benzodiazepines as anticonvulsant agents in DBA/2 mice. De Sarro G, et al. **Gen Pharmacol** 1996 Oct; 27(7):1155-62

1,4-Benzodiazepine derivatives as anticonvulsant agents in DBA/2 mice. De Sarro G, et al. **Gen Pharmacol** 1996 Sep; 27(6):935-41

Subtle changes in residue 77 of the gamma subunit of alpha1beta2gamma2 GABAA receptors drastically alter the affinity for ligands of the benzodiazepine binding site. Buhr A, et al. **J Biol Chem** 1997 May 2;272(18):11799-804

Quantitative structure-activity relationship studies on anti-HIV-1 TIBO derivatives as inhibitors of viral reverse transcriptase. Gupta SP, et al. **J Enzyme Inhib** 1996 Aug; 11(1):23-32

Discovery of 1,5-benzodiazepines with peripheral cholecystokinin (CCK-A) receptor agonist activity (II): Optimization of the C3 amino substituent. Hirst GC, et al. **J Med Chem** 1996 Dec 20;39(26):5236-45

Pharmacokinetic/pharmacodynamic relationship of benzodiazepines in the direct cortical stimulation model of anticonvulsant effect. Hoogerkamp A, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):803-12

Allopregnanolone affects sleep in a benzodiazepine-like fashion. Lancel M, et al. **J Pharmacol Exp Ther** 1997 Sep; 282(3):1213-8

Waglerin-1 modulates gamma-aminobutyric acid activated current of murine hypothalamic neurons. Ye JH, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):74-80

Antagonistic effect of YM022, an antiulcer agent in rats, on human cholecystokinin (CCK)B/gastrin receptor. Koizumi T, et al. **Jpn J Pharmacol** 1996 Aug;71(4):307-13

Differences in the inhibition of human immunodeficiency virus type 1 reverse transcriptase DNA polymerase activity by analogs of nevirapine and [2',5'-bis-O-(tert-butyldimethylsilyl)-3'-spiro-5"-(4"-amino-1", 2"-oxathiole-2",2"-dioxide] (TSAO). Arion D, et al. **Mol Pharmacol** 1996 Nov;50(5):1057-64

Protection against non-NMDA receptor-mediated excitotoxicity by GYKI 52466 in mature telencephalic cultures of the rat. Kovács AD, et al. **Neurobiology (Bp)** 1996;4(1-2):59-72

Activity of 2,3-benzodiazepines at native rat and recombinant human glutamate receptors in vitro: stereospecificity and selectivity profiles. Bleakman D, et al. **Neuropharmacology** 1996;35(12):1689-702

Benzodiazepine and barbiturate ligands modulate responses of cultured hippocampal neurones to the GABAA receptor partial agonist, 4-PIOL. Kristiansen U, et al. **Neuropharmacology** 1996;35(9-10):1181-91

Stereoselective effects of 2,3-benzodiazepines in vivo: electrophysiology and neuroprotection studies. Lodge D, et al. **Neuropharmacology** 1996;35(12):1681-8

Benzodiazepine site pharmacokinetic/pharmacodynamic quantification in man: direct measurement of drug occupancy and effects on the human brain in vivo. Malizia AL, et al. **Neuropharmacology** 1996;35(9-10):1483-91

Modulation of synaptic GABAA receptor function by benzodiazepines in area CA3 of rat hippocampal slice cultures. Poncer JC, et al. **Neuropharmacology** 1996; 35(9-10):1169-79

Rapid tolerance to benzodiazepine modifies rat hippocampal synaptic plasticity. Marín RH, et al. **Neurosci Lett** 1996 Sep 13;215(3):149-52

An increased intensity of N-methyl-D-aspartate (NMDA) but not non-NMDA receptor activation may be responsible for the enhancement of excitatory processes in the neocortex of two-week-old rats: a brain slices study. Világi I, et al. **Neurosci Lett** 1996 Jan 19;203(2):139-42

Interactions of the dye Evans Blue and GYKI 52466, a 2,3-benzodiazepine, with (S)-alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptors in cultured rat cortical neurons: electrophysiological evidence for at least two different binding sites for non-competitive antagonists. Weiser T, et al. **Neurosci Lett** 1996 Sep 20;216(1):29-32

Tolerance to anticonvulsant effects of some benzodiazepines in genetically epilepsy prone rats. De Sarro G, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):39-48

Anticonvulsant activity of azirino[1,2-d][1,4]benzodiazepines and related 1,4-benzodiazepines in mice. De Sarro G, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):281-9

Anticonvulsant and adverse effects of MK-801, LY 235959, and GYKI 52466 in combination with Ca2+ channel inhibitors in mice. Gasior M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):629-35

Ro 15-4513 alteration of pentobarbital dependence.

Yutrzenka GJ, et al. **Pharmacol Biochem Behav** 1996 Nov; 55(3):379–86

Cholecystokinin–B/gastrin receptor blockade suppresses the activity of rat stomach ECL cells. Ding XQ, et al. **Pharmacol Toxicol** 1997 Jul;81(1):19–25

Effect of cholecystokinin–B/gastrin receptor blockade on gastric acid secretion in conscious rats. Ding XQ, et al. **Pharmacol Toxicol** 1996 Dec;79(6):324–30

Bidirectional modulation of sweet and bitter taste by chlordiazepoxide and Ro 15–4513: lack of effect with GABA drugs. Petry NM, et al. **Physiol Behav** 1997 Jan; 61(1):119–26

Some central effects of GYKI 52466, a non–competitive AMPA receptor antagonist. Maj J, et al. **Pol J Pharmacol** 1995 Nov–Dec;47(6):501–7

The behavioural and neuronal effects of the chronic administration of benzodiazepine anxiolytic and hypnotic drugs. Hutchinson MA, et al. **Prog Neurobiol** 1996 May; 49(1):73–97 (146 ref.)

A novel benzodiazepine inverse agonist, S–8510, as a cognitive enhancer. Kawasaki K, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Nov; 20(8):1413–25

Effect of benzodiazepines on plasma levels of homovanillic acid in anxious patients and control subjects. Wingerson DK, et al. **Psychiatry Res** 1996 Nov 1;65(1):53–9

Differences in enhancing effects of zolpidem and benzodiazepine drugs on recurrent inhibition in rat hippocampal slices. Higashima M, et al. **Psychopharmacology (Berl)** 1997 Jun;131(4):394–8

N–methyl–D–aspartate (NMDA) and alpha–amino–3–hydroxy–5–methyl–4–isoxazolepropionate (AMPA) glutamate–receptor antagonists have different interactions with the discriminative stimuli of abused drugs. Jackson A, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):320–7

Enhancement by flumazenil of dopamine release in the nucleus accumbens of rats repeatedly exposed to diazepam or imidazenil. Motzo C, et al. **Psychopharmacology (Berl)** 1997 May;131(1):34–9

Flumazenil blockade of anxiety following ethanol withdrawal in rats. Moy SS, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):354–60

Assessment of benzodiazepine receptor heterogeneity in vivo: apparent pA2 and pKB analyses from behavioral studies. Rowlett JK, et al. **Psychopharmacology (Berl)** 1996 Nov; 128(1):1–16

AMPA antagonists differ from NMDA antagonists in their effects on operant DRL and delayed matching to position tasks. Stephens DN, et al. **Psychopharmacology (Berl)** 1996 Aug;126(3):249–59

GABAA receptor subtype diversity: implications for new generation hypnotic drug discovery. Graham D, et al. **Sleep** 1996 Oct;19(8 Suppl):S43–54

Depression of early and late monosynaptic inhibitory postsynaptic potentials in hippocampal CA1 neurons following prolonged benzodiazepine administration: role of a reduction in Cl– driving force. Zeng X, et al. **Synapse** 1997 Feb;25(2):125–36

Protection against cocaine and combined cocaine–ethanol toxicities in mice by imidazobenzodiazepine Ro 15–4513. Hayase T, et al. **Toxicology** 1997 Feb 28;117(2–3):171–82

POISONING

Are suicide rates in Sweden associated with changes in the prescribing of medicines? Carlsten A, et al. **Acta Psychiatr Scand** 1996 Aug;94(2):94–100

Flumazenil–induced seizure accompanying benzodiazepine and baclofen intoxication [letter] Chern TL, et al. **Am J Emerg Med** 1996 Mar;14(2):231–2

Sudden death and benzodiazepines. Drummer OH, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):336–42

Detection of alprazolam in three cases of methadone/benzodiazepine overdose. Rogers WO, et al. **J Forensic Sci** 1997 Jan;42(1):155–6

Emergency department use of flumazenil prior to poison center consultation. Burda T, et al. **Vet Hum Toxicol** 1997 Aug;39(4):245–7

[Suicidal poisoning with benzodiazepines] Chodorowski Z, et al. **Przegl Lek** 1997;54(6):416–9 (Eng. Abstr.) **(Pol)**

THERAPEUTIC USE

Decreased efficacy of combined benzodiazepines and unilateral ECT in treatment of depression. Jha A, et al. **Acta Psychiatr Scand** 1996 Aug;94(2):101–4

Benzodiazepines and exposure–based cognitive behavior therapies for panic disorder: conclusions from combined treatment trials. Spiegel DA, et al. **Am J Psychiatry** 1997 Jun;154(6):773–81 (77 ref.)

Benzodiazepine misuse by drug addicts. Garretty DJ, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):68–73

Pharmacotherapy of aggressive behavior. Pabis DJ, et al. **Ann Pharmacother** 1996 Mar;30(3):278–87 (106 ref.)

Recent benzodiazepine use in depressed patients: a confound of psychoimmunologic studies? Bartlett JA, et al. **Brain Behav Immun** 1996 Dec;10(4):380–6

An integrated treatment approach to panic disorder. Craske MG. **Bull Menninger Clin** 1996 Spring;60(2 Suppl A):A87–104 (68 ref.)

Placebo response in the treatment of panic disorder. Hirschfeld RM. **Bull Menninger Clin** 1996 Spring;60(2 Suppl A):A76–86 (20 ref.)

The pharmacotherapy of panic disorder. Rosenbaum JF, et al. **Bull Menninger Clin** 1996 Spring;60(2 Suppl A):A54–75 (119 ref.)

Rapid reversal of tolerance to benzodiazepine hypnotics by treatment with oral melatonin: a case report. Dagan Y, et al. **Eur Neuropsychopharmacol** 1997 May;7(2):157–60

Application of the Stages of Change Scale in a clinical drug trial. Wilson M, et al. **J Anxiety Disord** 1997 Jul–Aug; 11(4):395–408

Use of benzodiazepines in panic disorder. Davidson JR. **J Clin Psychiatry** 1997;58 Suppl 2:26–8; discussion 29–31 (21 ref.)

Recent developments in the psychopharmacology of anxiety disorders. Lydiard RB, et al. **J Consult Clin Psychol** 1996 Aug;64(4):660–8 (85 ref.)

Pretreatment but not posttreatment with GYKI 52466 reduces functional deficits and neuronal damage after global ischemia in rats. Block F, et al. **J Neurol Sci** 1996 Aug;139(2):167–72

Rapid seizure–induced reduction of benzodiazepine and Zn2+ sensitivity of hippocampal dentate granule cell GABAA receptors. Kapur J, et al. **J Neurosci** 1997 Oct 1;17(19):7532–40

Conscious sedation of pediatric oncology patients for painful procedures: development and implementation of a clinical practice protocol. Macpherson CF, et al. **J Pediatr Oncol Nurs** 1997 Jan;14(1):33–42; quiz 43–4 (16 ref.)

Pharmacological management of alcohol withdrawal. A meta–analysis and evidence–based practice guideline. American Society of Addiction Medicine Working Group on Pharmacological Management of Alcohol Withdrawal. Mayo–Smith MF. **JAMA** 1997 Jul 9;278(2):144–51

Efficacy of a brief psychosocial treatment for panic disorder in an active duty sample: implications for military readiness. Schmidt NB, et al. **Mil Med** 1997 Feb;162(2):123–9

Stroke recovery [letter; comment] Lodder J. **Neurology** 1996 Apr;46(4):1187–8. Comment on: Neurology 1995 May;45(5):865–71.

Psychotropic drug use in a group of Dutch nursing home patients with dementia: many users, long–term use, but low doses. Koopmans RT, et al. **Pharm World Sci** 1996 Jan; 18(1):42–7

Sedation in acute and chronic agitation. Levy RH. **Pharmacotherapy** 1996 Nov–Dec;16(6 Pt 2):152S–159S; discussion 166S–168S (33 ref.)

Benzodiazepines in schizophrenia. Stimmel GL. **Pharmacotherapy** 1996 Nov–Dec;16(6 Pt 2):148S–151S; discussion 166S–168S (11 ref.)

Psychopharmacologic treatment of pathologic aggression. Fava M. **Psychiatr Clin North Am** 1997 Jun;20(2):427–51 (176 ref.)

Are benzodiazepines antidepressants? [letter] Laakmann G, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):291–2

General practitioners' prescribing patterns of benzodiazepine hypnotics: are elderly patients at particular risk for overprescribing? A report from the Møre & Romsdal Prescription Study [see comments] Straand J, et al. **Scand J Prim Health Care** 1997 Mar;15(1):16–21. Comment in: Scand J Prim Health Care 1997 Mar;15(1):3–4.

Benzodiazepine and remission of Graves' disease [letter] Benvenga S. **Thyroid** 1996 Dec;6(6):659–60

[Strategies in premedication] **Anaesthesist** 1996 Dec;45(12 Suppl):1–8 **(Ger)**

[Anxiety and depression. Highlights from the 149th Session of the American Psychiatric Association, New York 4–9 May 1996] **Fortschr Neurol Psychiatr** 1997 Apr;65(4 Suppl Angst Und):1–4 **(Ger)**

[Drug therapy of panic disorders. Kava–specific extract WS 1490 compared to benzodiazepines] **Nervenarzt** 1994 Jan; 65(1 Suppl):1–4 **(Ger)**

[Therapy of the status epilepticus] **Nervenarzt** 1994 Jan;65(1 Suppl [therapie]):1–8 **(Ger)**

[Neonatal seizures: the beginning and interruption of the treatment] Koenigsberger MR, et al. **Rev Neurol** 1997 May; 25(141):706–8 (28 ref.) (Eng. Abstr.) **(Spa)**

URINE

Comparison of assay methods for benzodiazepines in urine. A receptor assay, two immunoassays, and gas chromatography–mass spectrometry. Nishikawa T, et al. **Am J Clin Pathol** 1997 Mar;107(3):345–52

Benzodiazepine misuse by drug addicts. Garretty DJ, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):68–73

Micro–extraction of commonly abused benzodiazepines for urinary screening by liquid chromatography. Wolff K, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):61–7

Automated on–line hydrolysis of benzodiazepines improves sensitivity of urine screening by a homogeneous enzyme immunoassay. Ropero–Miller JD, et al. **Clin Chem** 1997 Sep;43(9):1659–60

False–positive toxicology screens [letter] Gear JL. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1571–2

Solid–phase extraction and on–disc derivatization of the major benzodiazepines in urine using enzyme hydrolysis and Toxi–Lab VC MP3 column. King JW, et al. **J Anal Toxicol** 1996 Jul–Aug;20(4):262–5

Urine benzodiazepines screening of involuntarily drugged and robbed or raped patients. Boussairi A, et al. **J Toxicol Clin Toxicol** 1996;34(6):721–4

BENZODIAZEPINONES

ADMINISTRATION & DOSAGE

In mononeuropathic rats, the enhancement of morphine antinociception by L–365,260, a selective CCK(B) receptor antagonist, depends on the dose of systemic morphine and stimulus characteristics. Idänpään–Heikkilä JJ, et al. **Eur J Pharmacol** 1997 May 1;325(2–3):155–64

Antipsychotic effects of bretazenil, a partial benzodiazepine agonist in acute schizophrenia—a study group report. Delini–Stula A, et al. **J Psychiatr Res** 1996 Jul–Aug; 30(4):239–50

[Importance of toxicological studies in animals for elaboration of pathogenetic therapy of hydrazine intoxication] Baryshnikov II. **Med Tr Prom Ekol** 1997;(6):22–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Photo–induced toxic epidermal necrolysis caused by clobazam. Redondo P, et al. **Br J Dermatol** 1996 Dec; 135(6):999–1002

Aggression in children treated with clobazam for epilepsy. Sheth RD, et al. **Clin Neuropharmacol** 1994 Aug; 17(4):332–7

[Effect of withdrawal of phenazepam and nicotinamide on the status of the system of reception of benzodiazepines and NAD] Fomenko AI, et al. **Ukr Biokhim Zh** 1996 Sep–Oct;68(5):20–5 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Blockade of behavioral effects of bretazenil by flumazenil and ZK 93,426 in pigeons. Witkin JM, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):1–7

BLOOD

Analysis of clobazam and its active metabolite norclobazam in plasma and serum using HPLC/DAD. Akerman KK. **Scand J Clin Lab Invest** 1996 Nov;56(7):609–14

CHEMICAL SYNTHESIS

Pyridazines 82. Synthesis of pyridazino [3,4–b][1,5]benzodiazepin–5–ones and their biological evaluation as non–nucleoside HIV reverse transcriptase inhibitors. Heinisch G, et al. **Arch Pharm (Weinheim)** 1997 Jan–Feb;330(1–2):29–34

CHEMISTRY

1–Aryl–3,5–dihydro–4H–2,3–benzodiazepin–4–ones: novel AMPA receptor antagonists. Chimirri A, et al. **J Med Chem** 1997 Apr 11;40(8):1258–69

METABOLISM

His381 of the rat CCKB receptor is essential for CCKB versus CCKA receptor antagonist selectivity. Jagerschmidt A, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):97–106

Mutational analysis of the putative devazepide binding site of the CCK(A) receptor. Smeets RL, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):93–9

L–364,718 and L–365,260, two CCK antagonists, have no affinity for central benzodiazepine binding sites in chickens. Rodríguez–Sinovas A, et al. **Life Sci** 1996;59(15):1211–6

Recruitment of peripheral–type benzodiazepine receptors after acute stress in chick forebrain membranes: action of Triton X–100. Marín RH, et al. **Neurochem Int** 1996 Apr; 28(4):425–9

PHARMACOKINETICS

Improved oral absorption of L–365,260, a poorly soluble drug. Lin JH, et al. **Biopharm Drug Dispos** 1996 Jan; 17(1):1–15

Pharmacokinetic and pharmacodynamic interactions of bretazenil and diazepam with alcohol. van Steveninck AL, et al. **Br J Clin Pharmacol** 1996 Jun;41(6):565–73

PHARMACOLOGY

YF476 is a new potent and selective gastrin/cholecystokinin–B receptor antagonist in vitro and in vivo. Takinami Y, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):113–20

Cholecystokinin octapeptide inhibits carbohydrate but not protein intake. Mamoun AH, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 2):R972–80

Effects of telenzepine and L–364,718 on canine pancreatic secretion before and after vagotomy. Niebergall–Roth E, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1550–9

Effect of a cholecystokinin–A receptor blocker on protein–induced food intake suppression in rats. Trigazis L, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1826–33

Pyridazines 82. Synthesis of pyridazino [3,4–b][1,5]benzodiazepin–5–ones and their biological evaluation as non–nucleoside HIV reverse transcriptase inhibitors. Heinisch G, et al. **Arch Pharm (Weinheim)** 1997 Jan–Feb;330(1–2):29–34

Inhibition of bacteriophage T7 RNA polymerase in vitro transcription by DNA–binding pyrrolo[2,1–c][1,4]benzodiazepines. Puvvada MS, et al. **Biochemistry** 1997 Mar 4;36(9):2478–84

Effect of the cholecystokinin–B receptor antagonist

L-365,260 on lactate-induced panic attacks in panic disorder patients. van Megen HJ, et al. **Biol Psychiatry** 1996 Oct 15;40(8):804-6

Analysis of variation in L-365,260 competition curves in radioligand binding assays. Harper EA, et al. **Br J Pharmacol** 1996 Aug;118(7):1717-26

Analysis of the variation in the action of L-365,260 at CCKB/gastrin receptors in rat, guinea-pig and mouse isolated gastric tissue assays. Roberts SP, et al. **Br J Pharmacol** 1996 Aug;118(7):1779-89

Evidence for CCK(A) receptor involvement in the acquisition of conditioned activity produced by cocaine in rats. Josselyn SA, et al. **Brain Res** 1997 Jul 18; 763(1):93-102

Devazepide (L-364718) inhibits growth and increases expression of tumor markers in HT29-S-B6 cells. Forgue-Lafitte ME, et al. **C R Acad Sci III** 1996 Dec; 319(12):1133-8

Time course of discriminative stimulus effects of bretazenil and chlordiazepoxide in rats. Bronson M, et al. **Eur J Pharmacol** 1996 Jun 3;305(1-3):7-12

His381 of the rat CCKB receptor is essential for CCKB versus CCKA receptor antagonist selectivity. Jagerschmidt A, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):97-106

Pharmacological profile of T-0632, a novel potent and selective CCKA receptor antagonist, in vivo. Taniguchi H, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):227-33

Behavioral effects of CCKB receptor ligands in a validated simulation of panic anxiety in rats. Jenck F, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):291-8

The cholecystokinin receptor antagonist L-364,718 reduces taurocholate-induced pancreatitis in rats. Kim KH, et al. **Int J Pancreatol** 1996 Dec;20(3):205-11

Smooth muscle relaxant effects of tetrazepam on isolated guinea-pig and rat trachealis. Herrera MD, et al. **J Auton Pharmacol** 1996 Apr;16(2):105-10

From peptide to non-peptide. 3. Atropisomeric GPIIbIIIa antagonists containing the 3,4-dihydro-1H-1,4-benzodiazepine-2,5-dione nucleus. Blackburn BK, et al. **J Med Chem** 1997 Feb 28;40(5):717-29

Modulation of melphalan resistance in glioma cells with a peripheral benzodiazepine receptor ligand-melphalan conjugate. Kupczyk-Subotkowska L, et al. **J Med Chem** 1997 May 23;40(11):1726-30

Potent, selective, orally active 3-oxo-1,4-benzodiazepine GPIIb/IIIa integrin antagonists. Samanen JM, et al. **J Med Chem** 1996 Dec 6;39(25):4867-70

(3R)-N-(1-(tert-butylcarbonylmethyl)-2,3-dihydro-2-oxo-5-(2-pyridyl)-1H-1,4-benzodiazepin-3-yl)-N'-(3-(methylamino)phenyl)urea (YF476): a potent and orally active gastrin/CCK-B antagonist. Semple G, et al. **J Med Chem** 1997 Jan 31;40(3):331-41

Relaxant effect of tetrazepam on rat uterine smooth muscle: role of calcium movement. Perez-Guerrero C, et al. **J Pharm Pharmacol** 1996 Nov;48(11):1169-73

Long-term studies on anticonvulsant tolerance and withdrawal characteristics of benzodiazepine receptor ligands in different seizure models in mice. I. Comparison of diazepam, clonazepam, clobazam and abecarnil. Löscher W, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):561-72

The effects of cholecystokinin A and B receptor antagonists, devazepide and L 365260, on citalopram-induced decrease of exploratory behaviour in rat. Matto V, et al. **J Physiol Pharmacol** 1996 Dec;47(4):661-9

Exocrine effects of the CCK antagonist L-364,718 in canine pancreatic autografts. Garvin PJ, et al. **J Surg Res** 1996 Feb 15;61(1):256-9

Analysis of sleep EEGs by the interval histogram method--validity of the baseline night as a control and the effect of ethyl loflazepate (CM6912). Kuwahara H, et al. **Kurume Med J** 1996;43(4):305-12

L-740,093, a new antagonist of the CCK-B receptor, potentiates the antinociceptive effect of morphine: electrophysiological and behavioural studies. Xu XJ, et al. **Neuropeptides** 1996 Apr;30(2):203-6

Individual differences in the feeding response to CCKB antagonists: role of the nucleus accumbens. Sills TL, et al. **Peptides** 1996;17(4):593-9

The effect of centrally administered CCK-receptor antagonists on food intake in rats. Corp ES, et al. **Physiol Behav** 1997 Jun;61(6):823-7

Lack of interaction between devazepide and 8-OH-DPAT-induced hyperphagia in the rat. Francis J, et al. **Physiol Behav** 1996 Nov;60(5):1337-40

Devazepide attenuates dl-fenfluramine-induced suppression of gastric emptying but not food intake in the 17 h food-deprived rat. Francis J, et al. **Physiol Behav** 1997 Sep; 62(3):545-50

Devazepide increases food intake in male but not female Zucker rats. Strohmayer AJ, et al. **Physiol Behav** 1996 Jul; 60(1):273-5

Effect of L364.718 during suckling on the sensitivity to the hypophagic effect of cholecystokinin in adult rats. Voits M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Jan;21(1):183-92

Ethological analysis of cholecystokinin (CCKA and CCKB) receptor ligands in the elevated plus-maze test of anxiety in mice. Johnson NJ, et al. **Psychopharmacology (Berl)** 1996 Apr;124(4):355-64

Devazepide, a CCKA receptor antagonist, impairs the acquisition of conditioned reward and conditioned activity. Josselyn SA, et al. **Psychopharmacology (Berl)** 1996 Jan; 123(2):131-43

CCK antagonist pre-treatment inhibits meal-enhanced drug absorption in dogs. Miles C, et al. **Regul Pept** 1997 Jan 15;68(1):9-14

Effect of L364718 on interdigestive pancreatic exocrine secretion and gastroduodenal motility in conscious sheep. Onaga T, et al. **Regul Pept** 1997 Jan 29;68(2):139-46

Comparison of the effects of two cholecystokinin-receptor antagonists, loxiglumide and L-364,718, on the pancreatic secretory response to intraduodenal tryptophan in dogs. Niebergall-Roth E, et al. **Scand J Gastroenterol** 1996 Jul; 31(7):723-32

[Clinical pilot study of the myogenic effects of flupirtine in comparison to tetrazepam and placebo] Lobisch M, et al. **Arzneimittelforschung** 1996 Mar;46(3):293-8 (Eng. Abstr.) **(Ger)**

[Optimization of a method of infusion of reverse agonists of GABA-receptor complex in analysis of rapidly reversible effects of tranquilizers and ethanol] Golovenko NIa, et al. **Biull Eksp Biol Med** 1997 May;123(5):551-4 **(Rus)**

[Pharmacologic analysis of phenazepam and flunitrazepam activity when administered in extremely low doses] Molodavkin GM, et al. **Biull Eksp Biol Med** 1996 Feb; 121(2):164-6 **(Rus)**

[A reversible functional disorder of the escape reaction as a model for studying the effect of tranquilizers] Inozemtsev AN, et al. **Eksp Klin Farmakol** 1996 Mar-Apr;59(2):3-5 (Eng. Abstr.) **(Rus)**

[Fenibut and fenazepam as potential protectors of pregnancy with a GABA-ergic mechanism of action] Sergeev PV, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):33-6 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Influence of acupuncture and pharmacotherapy on sensitivity of sensory systems to alcohol irritants in patients with alcoholism. Timofeev MF. **Am J Chin Med** 1996; 24(2):177-84

Pilot study of a CCKB antagonist in patients with panic disorder: preliminary findings. Sramek JJ, et al. **Anxiety** 1994-95;1(3):141-3

Aggression in children treated with clobazam for epilepsy. Sheth RD, et al. **Clin Neuropharmacol** 1994 Aug; 17(4):332-7

Interactions of clobazam with conventional antiepileptics in children. Theis JG, et al. **J Child Neurol** 1997 Apr; 12(3):208-13

A new design of trial for hypnotics comparison: a double-blind cross-over trial with patient's preference assessment and continuation of the preferred treatment. Bourin M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):373-85

[Differences in the effects of piracetam and fenazepam in emotional stress caused by the spatial reversal of a habit] Inozemtsev AN, et al. **Eksp Klin Farmakol** 1996 Nov-Dec; 59(6):3-5 (Eng. Abstr.) **(Rus)**

[The effect of benzodiazepine derivatives on the formation of brain edema-swelling in the dynamics of the posttraumatic period] Novikov VE. **Eksp Klin Farmakol** 1996 May-Jun;59(3):61-3 (Eng. Abstr.) **(Rus)**

TOXICITY

Devazepide-induced hyperplasia in the rat liver and bile ducts. Ohlsson B, et al. **Eur Surg Res** 1996 Jul-Aug; 28(4):299-305

URINE

Use of direct-probe mass spectrometry as a toxicology confirmation method for demoxepam in urine following high-performance liquid chromatography. Essien H, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30;683(2):199-208

BENZODIONES see **BENZOQUINONES**

5,6-BENZOFLAVONE see **BETA-NAPHTHOFLAVONE**

BENZOFLAVONES

PHARMACOLOGY

Differential mechanisms of cytochrome P450 inhibition and activation by alpha-naphthoflavone. Koley AP, et al. **J Biol Chem** 1997 Feb 7;272(6):3149-52

Human T cells are highly sensitive to suppression of mitogenesis by polycyclic aromatic hydrocarbons and this effect is differentially reversed by alpha-naphthoflavone. Davila DR, et al. **Toxicol Appl Pharmacol** 1996 Aug; 139(2):333-41

BENZOFURANS

Potential misevaluation of the ground-state dissociation constant from fluorimetric titrations: application to the ion indicators SBFI, PBFI, and fura-2. Kowalczyk A, et al. **Anal Biochem** 1997 Feb 1;245(1):28-37

Analgesic efficacy of enadoline versus placebo or morphine in postsurgical pain. Pande AC, et al. **Clin Neuropharmacol** 1996 Oct;19(5):451-6

Benzofuran. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:431-41 (62 ref.)

ADMINISTRATION & DOSAGE

Estimated intake of PCDDs, PCDFs and co-planar PCBs in individuals from Madrid (Spain) eating an average diet. Jiménez B, et al. **Chemosphere** 1996 Oct;33(8):1465-74

ADVERSE EFFECTS

Middle-ear disease in children exposed prenatally to polychlorinated biphenyls and polychlorinated dibenzofurans. Chao WY, et al. **Arch Environ Health** 1997 Jul-Aug;52(4):257-62

Allergic contact dermatitis from 3-(alpha-methoxy) methylenebenzofuran-2(3H)-one (MBF) and alpha-chloro-4-fluoroacetophenone (CFAP) in chemical process workers. Boffa MJ, et al. **Contact Dermatitis** 1996 Jun;34(6):434-5

Different congeners of PCBs/PCDFs may have contributed to different health outcomes in the Yucheng cohort. Guo YL, et al. **Neurotoxicol Teratol** 1996 May-Jun;18(3):255-6; discussion 271-6 (4 ref.)

Morbidity study of extruder personnel with potential exposure to brominated dioxins and furans. II. Results of clinical laboratory studies [see comments] Ott MG, et al. **Occup Environ Med** 1996 Dec;53(12):844-6. Comment in: Occup Environ Med 1997 Jan;54(1):66.

Dietary intake of fish contaminated with persistent organochlorine compounds in relation to low birthweight. Rylander L, et al. **Scand J Work Environ Health** 1996 Aug; 22(4):260-6

Breast-feeding exposure of infants to environmental contaminants--a public health risk assessment viewpoint: chlorinated dibenzodioxins and chlorinated dibenzofurans. Pohl HR, et al. **Toxicol Ind Health** 1996 Sep-Oct; 12(5):593-611 (98 ref.)

ANALYSIS

Determination of 2,3,7,8-chlorine-substituted dibenzo-p-dioxins and -furans at the part per trillion level in United States beef fat using high-resolution gas chromatography/high-resolution mass spectrometry. Ferrario J, et al. **Anal Chem** 1996 Feb 15;68(4):647-52

Polychlorinated dibenzofurans and dibenzo-p-dioxins in subsurface soil, superficial dust, and air extracts from a contaminated landfill. Hansen LG, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):271-6

Monitoring and estimating concentrations of polychlorinated biphenyls, dioxins, and furans in cattle milk and soils of Rhine-Delta floodplains. Hendriks AJ, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):263-70

Polychlorinated dibenzo-p-dioxins and dibenzofurans in lake sediments from Chinese schistosomiasis areas. Zheng M, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):653-6

Levels of PCDDs and PCDFs in the bleached pulp from Chinese pulp and paper industry. Zheng M, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):90-3

PCDD/PCDF from emission sources and ambient air in northeast Spain. Abad E, et al. **Chemosphere** 1997 Aug; 35(3):453-63

Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/PCDF) in food samples collected in southern Mississippi, USA. Fiedler H, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1411-9

Evaluation of a terrestrial food chain model for estimating foodstuff concentrations of PCDD/Fs. Harrad SJ, et al. **Chemosphere** 1997 Apr;34(8):1723-37

PCDDS and PCDFS in milk from farms in Derbyshire, U.K. Harrison N, et al. **Chemosphere** 1996 Feb;32(3):453-60

Levels of PCDDs, PCDFs and non-ortho PCBs in dietary supplement fish oil obtained in Spain. Jimenez B, et al. **Chemosphere** 1996 Feb;32(3):461-7

Polychlorinated diphenyl ethers, dibenzo-p-dioxins, dibenzofurans and biphenyls in seals and sediment from the Gulf of Finland. Koistinen J, et al. **Chemosphere** 1997 Sep;35(6):1249-69

Levels of selected organic compounds in materials for candle production and human exposure to candle emissions. Lau C, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1623-30

PCB and PCDD/DF congeners in locally grown fruit and vegetable samples in Wales and England. Lovett AA, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1421-36

Determination of PCDF/PCDD in sludges from a drinking water treatment plant influence of chlorination treatment. Rivera J, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):989-97

Levels of dioxins, dibenzofurans, PCB and DDE congeners in pooled food samples collected in 1995 at supermarkets across the United States. Schecter A, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1437-47

Dioxins, dibenzofurans, dioxin-like PCBs, and DDE in U.S. fast food, 1995. Schecter A, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1449-57

Exposure of laboratory animals to polychlorinated dibenzodioxins and polychlorinated dibenzofurans from commerical rodent chow. Schecter AJ, et al. **Chemosphere** 1996 Feb;32(3):501-8

Conclusions from Ufa, Russia, drinking water dioxin cleanup experiments involving different treatment technologies. Smirnov AD, et al. **Chemosphere** 1996 Feb;32(3):479-500

PCDD, PCDF, and PCB concentrations in human milk from two areas in Finland. Vartiainen T, et al. **Chemosphere** 1997 Jun;34(12):2571-83

Food control surveys of polychlorinated dibenzo-p-dioxins and dibenzofurans and intake estimates. Hallikainen A, et al. **Food Addit Contam** 1997 May-Jun;14(4):355-66 (64 ref.)
Separation of extracts from biological tissues into polycyclic aromatic hydrocarbon, polychlorinated biphenyl and polychlorinated dibenzo-p-dioxin/polychlorinated dibenzofuran fractions prior to analysis. O'Keefe PW, et al. **J Chromatogr A** 1997 May 30;771(1-2):169-79
Gas chromatographic analysis of polychlorinated dibenzo-p-dioxins and dibenzofurans. Singh SB, et al. **J Chromatogr A** 1997 Jul 11;774(1-2):97-109 (98 ref.)
[Levels of PCDDs, PCDFs and coplanar PCBs in sebum and blood of Yusho patients] Iida T, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):177-85 (Eng. Abstr.) **(Jpn)**
[Stimulation for sebum excretion of PCDDs, PCDFs and coplanar PCBs on bathing ceramic sand bath] Iida T, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):186-92 (Eng. Abstr.) **(Jpn)**
[The condition of PCBs and PCDFs in the blood of Yusho patients 20 years after the onset] Masuda Y, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):149-56 (Eng. Abstr.) **(Jpn)**

BLOOD

Blood serum levels of PCBs and PCDFs in Yucheng women 14 years after exposure to a toxic rice oil. Guo YL, et al. **Arch Environ Contam Toxicol** 1997 Jul;33(1):104-8
Chlorinated dibenzodioxins and dibenzofurans (PCDD/F) in blood and human milk of non occupationally exposed persons living in the vicinity of a municipal waste incinerator. Deml E, et al. **Chemosphere** 1996 Nov; 33(10):1941-50
Serum levels of polychlorinated dibenzo-p-dioxins and dibenzofurans in pulp and paper mill workers. Tepper A, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1587-603
Polychlorinated dibenzo-p-dioxin and dibenzofuran levels and patterns in polyvinylchloride and chloralkali industry workers. Hansson M, et al. **Int Arch Occup Environ Health** 1997;70(1):51-6
Development of HPLC plasma assays for CAM 4515 and CAM 4750, two new nonpeptide tachykinin antagonists, and application to bioavailability studies. Van Noord T, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1709-16
Levels of PCDD/PCDF in blood fat as indices of the PCDD/PCDF body burden in humans. Ewers U, et al. **Toxicol Lett** 1996 Nov;88(1-3):327-34
[Concentrations of PCDDs, PCDFs and coplanar PCBs in blood of 83 patients with Yusho] Iida T, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):169-76 (Eng. Abstr.) **(Jpn)**

CHEMICAL SYNTHESIS

Synthesis and evaluation of some new substituted benzofuran derivatives as potentially active antimicrobial agents. Abdel-Rahman AH, et al. **Boll Chim Farm** 1997 Mar; 136(3):262-5
Development of bioactive functions in hydrangeae dulcis folium. VI. Syntheses of thunberginols A and F and their 3'-deoxy-derivatives using regiospecific lactonization of stilbene carboxylic acid: structures and inhibitory activity on histamine release of hydramacrophyllols A and B. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Oct; 44(10):1890-8
Synthesis and analysis of mixed chlorinated-fluorinated dibenzo-p-dioxins and dibenzofurans and assessment of formation and occurrence of the fluorinated and chlorinated-fluorinated dibenzo-p-dioxins and dibenzofurans. Weber R, et al. **Chemosphere** 1997 Jan; 34(1):13-28
Synthesis of a series of Homopterocarpane derivatives with potential antitumor and anti-AIDS activity. Valenti P, et al. **Farmaco** 1997 Jan;52(1):13-9
Dihydrobenzofuran analogues of hallucinogens. 4. Mescaline derivatives. Monte AP, et al. **J Med Chem** 1997 Sep 12; 40(19):2997-3008
11C- and 76Br-labelled NNC 22-0010, selective dopamine D1 receptor radioligands for PET. Foged C, et al. **Nucl Med Biol** 1996 Aug;23(6):837-44

CHEMISTRY

2-Acetylbenzoic acid: phthalide form. Dobson AJ, et al. **Acta Crystallogr C** 1996 Dec 15;52 (Pt 12):3078-81
Stereoselective syntheses of substituted pterocarpans with anti-HIV activity, and 5-aza-/5-thia-pterocarpan and 2-aryl-2,3-dihydrobenzofuran analogues. Engler TA, et al. **Bioorg Med Chem** 1996 Oct;4(10):1755-69
The conformation and activity relationship of benzofuran derivatives as angiotensin II receptor antagonists. Yoo SE, et al. **Bioorg Med Chem** 1997 Feb;5(2):445-59
Pterulinic acid and pterulone, two novel inhibitors of NADH:ubiquinone oxidoreductase (complex I) produced by a Pterula species. II. Physico-chemical properties and structure elucidation. Engler M, et al. **J Antibiot (Tokyo)** 1997 Apr;50(4):330-3
Inhibitors of myo-inositol monophosphatase, ATCC 20928 factors A and C. Isolation, physico-chemical characterization and biological properties. Stefanelli S, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):611-6
Dioxabicyclooctanyl naphthalenenitriles as nonredox 5-lipoxygenase inhibitors: structure-activity relationship study directed toward the improvement of metabolic stability. Delorme D, et al. **J Med Chem** 1996 Sep 27; 39(20):3951-70
Hypoglycemic activity of a series of alpha-alkylthio and alpha-alkoxy carboxylic acids related to ciglitazone. Hulin B, et al. **J Med Chem** 1996 Sep 27;39(20):3897-907
5-aminocoumarans: dual inhibitors of lipid peroxidation and dopamine release with protective effects against central nervous system trauma and ischemia. Ohkawa S, et al. **J Med Chem** 1997 Feb 14;40(4):559-73
Comments on 'Systematic study on the chemical stability of the prodrug antitumor agent carzelesin (U-80,244)' [letter] Bergon M. **J Pharm Sci** 1997 Sep;86(9):1070-1

DIAGNOSTIC USE

Lack of expression of dopamine D2 receptors in malignant melanoma: evidence for interaction of iodobenzofurans with melanin. Böni R, et al. **Dermatology** 1996; 193(3):198-202
Noninvasive quantification of dopamine D2 receptors with iodine-123-IBF SPECT. Ichise M, et al. **J Nucl Med** 1996 Mar;37(3):513-20

ISOLATION & PURIFICATION

Pterulinic acid and pterulone, two novel inhibitors of NADH:ubiquinone oxidoreductase (complex I) produced by a Pterula species. I. Production, isolation and biological activities. Engler M, et al. **J Antibiot (Tokyo)** 1997 Apr; 50(4):325-9
Antihyperglycemic activity of phenolics from Pterocarpus marsupium.' Manickam M, et al. **J Nat Prod** 1997 Jun; 60(6):609-10
Cyclopentabenzofuran lignan protein synthesis inhibitors from Aglaia odorata. Ohse T, et al. **J Nat Prod** 1996 Jul; 59(7):650-2
Daleformis, a new phytoalexin from the roots fo Dalea filiciformis: an inhibitor of endothelin converting enzyme. Patil AD, et al. **J Nat Prod** 1997 Mar;60(3):306-8
Cytotoxic and antiplatelet aggregation principles from Aglaia elliptifolia. Wu TS, et al. **J Nat Prod** 1997 Jun;60(6):606-8
The cytotoxicity of psoralidin from Psoralea corylifolia [letter] Yang YM, et al. **Planta Med** 1996 Aug;62(4):353-4

METABOLISM

Degradation of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans by the white rot fungus Phanerochaete sordida YK-624. Takada S, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4323-8
Fate of toxic compounds during composting. Eitzer BD, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):953-60
Dioxins and furans in the Jordanian environment. Part 2: Levels of PCDD and PCDF in human milk samples from Jordan. Alawi MA, et al. **Chemosphere** 1996 Dec; 33(12):2469-74
PCDD/PCDFs in humans, follow-up of background data for Germany, 1994. Papke O, et al. **Chemosphere** 1996 Feb; 32(3):575-82
Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) in Baikal seal. Tarasova EN, et al. **Chemosphere** 1997 Jun;34(11):2419-27
Metabolism of 6-chloro n-butyl phthalide in rat. Peng SH, et al. **Eur J Drug Metab Pharmacokinet** 1996 Oct-Dec; 21(4):339-44
[3H]2-(2-benzofuranyl)-2-imidazoline: a new selective high affinity radioligand for the study of rabbit brain imidazoline I2 receptors. Lione LA, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):221-9
Characterization of three distinct extradiol dioxygenases involved in mineralization of dibenzofuran by Terrabacter sp. strain DPO360. Schmid A, et al. **J Bacteriol** 1997 Jan; 179(1):53-62
Simplified quantification and reproducibility studies of dopamine D2-receptor binding with iodine-123-IBF SPECT in healthy subjects. Ichise M, et al. **J Nucl Med** 1997 Jan;38(1):31-7
Characterisation of [3H]-darifenacin as a novel radioligand for the study of muscarinic M3 receptors. Smith CM, et al. **J Recept Signal Transduct Res** 1997 Jan-May; 17(1-3):177-84
Binding of [3H]2-(2-benzofuranyl)-2-imidazoline (BFI) to human brain: potentiation by tranylcypromine. Wiest SA, et al. **Life Sci** 1997;60(9):605-15
Labelling of I2B-imidazoline receptors by [3H]2-(2-benzofuranyl)-2-imidazoline (2-BFI) in rat brain and liver: characterization, regulation and relation to monoamine oxidase enzymes. Alemany R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):39-47
[3H]2-(2-Benzofuranyl)-2-imidazoline, a highly selective radioligand for I2-imidazoline receptor binding sites. Studies in rabbit kidney membranes. Hosseini AR, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):131-8
Intake, fecal excretion, and body burden of polychlorinated dibenzo-p-dioxins and dibenzofurans in breast-fed and formula-fed infants. Abraham K, et al. **Pediatr Res** 1996 Nov;40(5):671-9
[Studies on metabolism of 6-chloro butyl phthalide by rat liver microsomes] Peng SH, et al. **Yao Hsueh Hsueh Pao** 1996;31(6):466-71 (Eng. Abstr.) **(Chi)**
[Effect of green tea (matcha) on gastrointestinal tract absorption of polychlorinated biphenyls, polychlorinated dibenzofurans and polychlorinated dibenzo-p-dioxins in rats] Morita K, et al. **Fukuoka Igaku Zasshi** 1997 May; 88(5):162-8 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

Pharmacokinetic model of dioxin and furan levels in adipose tissue from sawmill work involving chlorophenate fungicides. Campbell CA, et al. **Chemosphere** 1996 Dec; 33(12):2373-81
Disposition and metabolism of the sulfonylurea oncolytic agent LY295501 in mouse, rat, and monkey. Ehlhardt WJ, et al. **Drug Metab Dispos** 1997 Jun;25(6):701-8
Orally active inhibitors of human leukocyte elastase. I. Disposition of L-683,845 in rats and rhesus monkeys. Vincent SH, et al. **Drug Metab Dispos** 1996 Dec; 24(12):1369-77
Development of HPLC plasma assays for CAM 4515 and CAM 4750, two new nonpeptide tachykinin antagonists, and application to bioavailability studies. Van Noord T, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1709-16
Systematic study on the chemical stability of the prodrug antitumor agent carzelesin (U-80,244). Vries JD, et al. **J Pharm Sci** 1996 Nov;85(11):1227-33
Pharmacokinetics of the three radioiodinated dopamine D2 receptor ligands [123I]IBF, [123I]epidepride and [123I]2'-ISP in nonhuman primates. Baldwin RM, et al. **Nucl Med Biol** 1994 Oct;21(7):969-76
Disposition and metabolism of 2,3,7,8-tetrachlorodibenzofuran by rainbow trout (Oncorhynchus mykiss). Steward AR, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):418-29
Disposition and metabolism of 2,3,7,8-tetrachlorodibenzofuran by channel catfish (Ictalurus punctatus). Steward AR, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):430-6
Bioassay for determining 2,3,7,8-tetrachlorodibenzo-p-dioxin equivalents (TEs) in human hepatoma Hepg2 cells. Wiebel FJ, et al. **Toxicol Lett** 1996 Nov;88(1-3):335-8
[Human biomonitoring--studies of arsenic, lead and PCDD/F in inhabitants of a contaminated residential area] Ewers U, et al. **Gesundheitswesen** 1997 Jan;59(1):41-50 (Eng. Abstr.) **(Ger)**
[Blood PCDD/F levels in blood of residents of a former cable incineration facility] Ewers U, et al. **Gesundheitswesen** 1996 Aug-Sep;58(8-9):465-9 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

2,3-Dihydro-5-hydroxy-2,2-dipentyl-4,6-di-tert-butylbenzofuran: design and evaluation as a novel radical-scavenging antioxidant against lipid peroxidation. Noguchi N, et al. **Arch Biochem Biophys** 1997 Jun 15; 342(2):236-43
Drug profile of new benzofurane derivatives in guinea-pig isolated heart muscle preparations. Lemmens Gruber R, et al. **Arch Int Pharmacodyn Ther** 1995 Sep-Oct; 330(2):165-76
Acceleration of glycolysis in erythrocytes by the antidiabetic agent M16209. Hashimoto K, et al. **Biol Pharm Bull** 1996 Jun;19(6):809-13
Vasodilator effects of des(alpha-carboxy-3,4-dihydroxyphenethyl)lithospermic acid (8-epiblechnic acid), a derivative of lithospermic acids in salviae miltiorrhizae radix. Nagai M, et al. **Biol Pharm Bull** 1996 Feb;19(2):228-32
Comparison of angiotensin II type 1 receptor blockade and angiotensin-converting enzyme inhibition in pregnant sheep during late gestation. Forhead AJ, et al. **Br J Pharmacol** 1996 Sep;119(2):393-401
Further investigations into the mechanism of the antihypertensive activity of the angiotensin AT1 receptor antagonist, GR138950. Hilditch A, et al. **Br J Pharmacol** 1996 Jun;118(3):711-9
Interactions between imidazoline compounds and sulphonylureas in the regulation of insulin secretion. Mourtada M, et al. **Br J Pharmacol** 1997 Jun;121(4):799-805
Elevation of cytosolic calcium by imidazolines in mouse islets of Langerhans: implications for stimulus-response coupling of insulin release. Shepherd RM, et al. **Br J Pharmacol** 1996 Nov;119(5):911-6
Antiestrogenic activities of alternate-substituted polychlorinated dibenzofurans in MCF-7 human breast cancer cells. Sun G, et al. **Cancer Chemother Pharmacol** 1997;40(3):239-44
Activity of compounds isolated from Chilean lichens against experimental cutaneous leishmaniasis. Fournet A, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jan;116(1):51-4
Promotion of endometriosis in mice by polychlorinated dibenzo-p-dioxins, dibenzofurans, and biphenyls. Johnson KL, et al. **Environ Health Perspect** 1997 Jul;105(7):750-5
EMD 68843, a serotonin reuptake inhibitor with selective presynaptic 5-HT1A receptor agonistic properties. Bartoszyk GD, et al. **Eur J Pharmacol** 1997 Mar 19; 322(2-3):147-53
Amphiphilic alpha-tocopherol analogues as inhibitors of brain lipid peroxidation. Bolkenius FN, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):37-43

BENZOFURANS

Clotrimazole and efaroxan inhibit red cell Gardos channel independently of imidazoline I1 and I2 binding sites. Coupry I, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):109–12

Amelioration of insulin resistance in genetically obese rodents by M16209, a new antidiabetic agent. Murakami N, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):129–34

7–(N–substituted)amino–2,3–polymethylene benzofurane derivatives with tracheal relaxant activity. Vazzana I, et al. **Farmaco** 1996 Oct;51(10):637–42

Pterulinic acid and pterulone, two novel inhibitors of NADH:ubiquinone oxidoreductase (complex I) produced by a Pterula species. I. Production, isolation and biological activities. Engler M, et al. **J Antibiot (Tokyo)** 1997 Apr; 50(4):325–9

Dechlorogeodin and its new dihydro derivatives, fungal metabolites with herbicidal activity. Tanaka Y, et al. **J Antibiot (Tokyo)** 1996 Oct;49(10):1056–9

Effects of the angiotensin AT1 receptor antagonist GRI38950 on haemodynamic function in dogs. Hunt AA, et al. **J Auton Pharmacol** 1997 Feb;17(1):1–11

Bicyclic N–hydroxyurea inhibitors of 5–lipoxygenase: pharmacodynamic, pharmacokinetic, and in vitro metabolic studies characterizing N–hydroxy–N–(2,3–dihydro–6–(phenylmethoxy)–3–benzofuranyl)urea. Adams JL, et al. **J Med Chem** 1996 Dec 20;39(26):5035–46

Structure–activity relationship studies on benzofuran analogs of propafenone–type modulators of tumor cell multidrug resistance. Ecker G, et al. **J Med Chem** 1996 Nov 22; 39(24):4767–74

5–aminocoumarans: dual inhibitors of lipid peroxidation and dopamine release with protective effects against central nervous system trauma and ischemia. Ohkawa S, et al. **J Med Chem** 1997 Feb 14;40(4):559–73

Measurement of intracellular Na+ concentration by a Na+–sensitive fluorescent dye, sodium–binding benzofuran isophthalate, in porcine adrenal chromaffin cells—usage of palytoxin as a Na+ ionophore. Ito S, et al. **J Neurosci Methods** 1997 Jul 18;75(1):21–7

EEG spectral analysis of the neuroprotective kappa opioids enadoline and PD117302. Tortella FC, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):286–93

Antihyperglycemic mechanism of M16209, an antidiabetic agent, in 3T3–L1 adipocytes. Murakami N, et al. **Life Sci** 1997;60(20):1821–31

Effects of FR145237, an acyl–CoA:cholesterol acyltransferase inhibitor, on diet–induced hypercholesterolemia in diabetic rats. Sakuma Y, et al. **Life Sci** 1997;60(6):351–6

Electrophysiological properties of the propafenone–analogue GE 68 (1–[3–(phenylethyl)–2–benzofuryl]–2–(propylamino)–ethanol) in isolated preparations and ventricular myocytes of guinea–pig hearts. Lemmens–Gruber R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):230–8

11C– and 76Br–labelled NNC 22–0010, selective dopamine D1 receptor radioligands for PET. Foged C, et al. **Nucl Med Biol** 1996 Aug;23(6):837–44

(–)–Usnic acid and its derivatives. Their inhibition of fungal growth and enzyme activity. Broksa B, et al. **Pharmazie** 1996 Mar;51(3):195–6

A quantitative structure activity study on a new class of highly potent antiinflammatory agents. Dimitra HL. **Res Commun Mol Pathol Pharmacol** 1997 Mar;95(3):331–41

[Effect of dl–3–butylphthalide on the striatum extracellular amino acid and dopamine contents in the rat during cerebral ischemia] Huang XX, et al. **Yao Hsueh Hsueh Pao** 1996;31(4):246–9 (Eng. Abstr.) **(Chi)**

POISONING

Increased mortality from chronic liver disease and cirrhosis 13 years after the Taiwan "yucheng" ("oil disease") incident. Yu ML, et al. **Am J Ind Med** 1997 Feb;31(2):172–5

Reassessment of PCDD/DFs and Co–PCBs toxicity in contaminated rice–bran oil responsible for the disease "Yu–Cheng". Soong DK, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):1579–86

THERAPEUTIC USE

Analgesic efficacy of the kappa–receptor agonist, enadoline, in dental surgery pain. Pande AC, et al. **Clin Neuropharmacol** 1996 Feb;19(1):92–7

Reduction of traumatic brain injury–induced cerebral oedema by a free radical scavenger. Petty MA, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):149–55

Antitumor diarylsulfonylureas: novel agents with unfulfilled promise. Houghton PJ, et al. **Invest New Drugs** 1996; 14(3):271–80 (34 ref.)

Discovery & development of selective M3 antagonists for clinical use. Alabaster VA. **Life Sci** 1997;60(13–14):1053–60 (24 ref.)

TOXICITY

Halogenated aromatic hydrocarbon–mediated porphyrin accumulation and induction of cytochrome P4501A in chicken embryo hepatocytes. Lorenzen A, et al. **Biochem Pharmacol** 1997 Feb 7;53(3):373–84

Health risk assessment for inuit newborns exposed to dioxin–like compounds through breast feeding. Ayotte P, et al. **Chemosphere** 1996 Feb;32(3):531–42

Bioaccumulation and lack of toxicity of octachlorodibenzofuran (OCDF) and octachlorodibenzo–p–dioxin (OCDD) to early–life stages of zebra fish (Brachydanio rerio). Berends AG, et al. **Chemosphere** 1997 Aug;35(4):853–65

Derivation of 2,3,7,8–TCDD toxic equivalent factors (TEFs) for selected dioxins, furans and PCBs with rainbow trout and rat liver cell lines and the influence of exposure time. Clemons JH, et al. **Chemosphere** 1997 Mar–Apr; 34(5–7):1105–19

Coplanar PCBs and the relative contribution of coplanar PCBs, PCDDs, and PCDFs to the total 2,3,7,8–TCDD toxicity equivalents in human serum. Kang D, et al. **Chemosphere** 1997 Aug;35(3):503–11

Metabolic degradation, inducing potency, and metabolites of fluorinated and chlorinated–fluorinated dibenzodioxins and dibenzofurans. Weber R, et al. **Chemosphere** 1997 Jan; 34(1):29–40

Induction of micronuclei in cultured human lymphocytes with the mixture of highly toxic organochlorine compounds retained in human body. Nagayama J, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):193–9

The toxicity of brominated and mixed–halogenated dibenzo–p–dioxins and dibenzofurans: an overview. Weber LW, et al. **J Toxicol Environ Health** 1997 Feb 21; 50(3):195–215 (110 ref.)

Estimating relative potency for receptor–mediated toxicity: reevaluating the toxicity equivalence factor (TEF) model. Putzrath RM. **Regul Toxicol Pharmacol** 1997 Feb; 25(1):68–78 (45 ref.)

Additive interactions between pairs of polybrominated dibenzo–p–dioxin, dibenzofuran, and biphenyl congeners in a rainbow trout early life stage mortality bioassay. Hornung MW, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):345–55

Toxic equivalency factors of polybrominated dibenzo–p–dioxin, dibenzofuran, biphenyl, and polyhalogenated diphenyl ether congeners based on rainbow trout early life stage mortality. Hornung MW, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):227–34

Difference between normal and WHHL rabbits in susceptibility to the adrenal toxicity of an acyl–CoA:cholesterol acyltransferase inhibitor, FR145237. Matsuo M, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):387–92

BENZOIN

ANALOGS & DERIVATIVES

Stimulation of aryl metabolite production in the basidiomycete Bjerkandera sp. strain BOS55 with biosynthetic precursors and lignin degradation products. Mester T, et al. **Appl Environ Microbiol** 1997 May; 63(5):1987–94

ANALYSIS

A quantitative relationship between capacity factor and selector concentration in capillary electrophoresis and high performance liquid chromatography: evidence from the enantioselective resolution of benzoin using human serum albumin as a chiral selector. Lloyd DK, et al. **Electrophoresis** 1997 Jun;18(6):958–64

ISOLATION & PURIFICATION

Effect of organic modifiers on retention and enantiomeric separations by capillary electrophoresis with human serum albumin as a chiral selector in solution. Ahmed A, et al. **J Chromatogr A** 1997 Apr 4;766(1–2):237–44

BENZOL see **BENZENE**

BENZOMORPHANS

ADMINISTRATION & DOSAGE

Suppression of adjuvant arthritis by kappa–opioid receptor agonist: effect of route of administration and strain differences. Antić J, et al. **Immunopharmacology** 1996 Sep; 34(2–3):105–12

CHEMICAL SYNTHESIS

Synthesis and structure–activity relationships of 6,7–benzomorphan derivatives as antagonists of the NMDA receptor–channel complex. Grauert M, et al. **J Med Chem** 1997 Aug 29;40(18):2922–30

[Tricyclic benzomorphan analogs: synthesis and pharmacologic studies] Wünsch B. **Pharm Unserer Zeit** 1996 Sep;25(5):260–6 (14 ref.) **(Ger)**

METABOLISM

Multiplicity of kappa opioid receptor binding in the rat cardiac sarcolemma. Zhang WM, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1547–54

Sensitivity of opioid receptor binding to N–substituted maleimides and methanethiosulfonate derivatives. Shahrestanifar MS, et al. **Neurochem Res** 1996 Nov; 21(11):1295–9

PHARMACOLOGY

Antinociception induced by opioid or 5–HT agonists microinjected into the anterior pretectal nucleus of the rat. Mamede Rosa ML, et al. **Brain Res** 1997 May 16; 757(1):133–8

Cardiovascular effects of intrathecally injected mu, delta and kappa opioid receptor agonists in rabbits. Oğütman C, et al. **J Auton Pharmacol** 1995 Dec;15(6):443–50

Opioid receptor ligand binding in the human striatum: II. Heterogeneous distribution of kappa opioid receptor labeled with [3H]bremazocine. Vonkeman HE, et al. **J Comp Neurol** 1996 Oct 14;374(2):223–9

Synthesis and structure–activity relationships of 6,7–benzomorphan derivatives as antagonists of the NMDA receptor–channel complex. Grauert M, et al. **J Med Chem** 1997 Aug 29;40(18):2922–30

The kappa–opioid receptor agonist MR–2034 stimulates the rat hypothalamic–pituitary–adrenal axis: studies in vivo and in vitro. Calogero AE, et al. **J Neuroendocrinol** 1996 Aug; 8(8):579–85

Putative kappa–2 opioid agonists are antihyperalgesic in a rat model of inflammation. Ho J, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):136–41

Antagonistic effect of MR2266 and MR2267 on morphine or nalbuphine analgesia at the spinal levels in rats. Kmieciak–Kołada K, et al. **Pol J Pharmacol** 1995 Nov–Dec;47(6):509–18

Effects of the delta opioid against BW373U86 in pigeons trained to discriminate fentanyl, bremazocine and water in a three–choice drug discrimination procedure. Negus SS, et al. **Psychopharmacology (Berl)** 1996 Aug; 126(3):199–205

BENZOPHENONES

ADMINISTRATION & DOSAGE

Pharmacokinetic–pharmacodynamic relationships of bromfenac in mice and humans. Chiang ST, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1179–87

ADVERSE EFFECTS

Response to Garrido et al.: "Side effects of the catechol–O–methyl–transferase inhibitor Ro 40–7592 in rabbits" [letter] Da Prada M, et al. **Clin Neuropharmacol** 1996 Feb;19(1):98–9

ANALYSIS

High–performance liquid chromatographic assay for common sunscreening agents in cosmetic products, bovine serum albumin solution and human plasma. Jiang R, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):137–45

CHEMISTRY

Benzophenone photoprobes for phosphoinositides, peptides and drugs. Prestwich GD, et al. **Photochem Photobiol** 1997 Feb;65(2):222–34 (95 ref.)

Photolysis of retinol in liposomes and its protection with tocopherol and oxybenzone. Young AM, et al. **Photochem Photobiol** 1996 Mar;63(3):344–52

METABOLISM

Behaviour of Chimassorb 81 in the recycling process of agricultural films used as soil covers. Nerin C, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):243–50

2–(methylamino)–5–chlorobenzophenone imine: a novel product formed in base–catalyzed hydrolysis of diazepam. Yang SK, et al. **J Pharm Sci** 1996 Jul;85(7):745–8

PHARMACOKINETICS

Effects of age and gender on the pharmacokinetics of bromfenac in healthy volunteers. Boni JP, et al. **Ann Pharmacother** 1997 Apr;31(4):400–5

Absolute bioavailability of bromfenac in humans. Gumbhir–Shah K, et al. **Ann Pharmacother** 1997 Apr; 31(4):395–9

Bromfenac disposition in patients with impaired kidney function. Ermer JC, et al. **Clin Pharmacol Ther** 1997 Mar; 61(3):312–8

Evaluation of pharmacokinetic interaction between bromfenac and phenytoin in healthy males. Gumbhir–Shah K, et al. **J Clin Pharmacol** 1997 Feb;37(2):160–8

Lack of interaction between bromfenac and methotrexate in patients with rheumatoid arthritis. Gumbhir–Shah K, et al. **J Rheumatol** 1996 Jun;23(6):984–9

Systemic absorption of sunscreen after topical application [letter] Hayden CG, et al. **Lancet** 1997 Sep 20; 350(9081):863–4

Pharmacokinetic–pharmacodynamic relationships of bromfenac in mice and humans. Chiang ST, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1179–87

Interspecies scaling of tolcapone, a new inhibitor of catechol–O–methyltransferase (COMT). Use of in vitro data from hepatocytes to predict metabolic clearance in animals and humans. Lave T, et al. **Xenobiotica** 1996 Aug; 26(8):839–51

PHARMACOLOGY

Potentiation of the antimalarial agent rufigallol. Winter RW,

et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1408–11
Catechol O-methyltransferase inhibitor tolcapone has minor influence on performance in experimental memory models in rats. Liljequist R, et al. **Behav Brain Res** 1997 Jan; 82(2):195–202
Antibacterial activity of some Garcinia benzophenone derivatives against methicillin-resistant Staphylococcus aureus. Iinuma M, et al. **Biol Pharm Bull** 1996 Feb; 19(2):311–4
Ontogenic aspects of liver and kidney catechol-O-methyltransferase sensitivity to tolcapone. Vieira-Coelho MA, et al. **Br J Pharmacol** 1996 Feb; 117(3):516–520
Effect of L-Dopa and the catechol-O-methyltransferase inhibitor Ro 41-0960 on sulfur amino acid metabolites in rats. Miller JW, et al. **Clin Neuropharmacol** 1997 Feb; 20(1):55–66
The effect of COMT inhibition by tolcapone on tolerability and pharmacokinetics of different levodopa/benserazide formulations. Jorga K, et al. **Eur Neurol** 1997;38(1):59–67
Ro 48-8.071, a new 2,3-oxidosqualene:lanosterol cyclase inhibitor lowering plasma cholesterol in hamsters, squirrel monkeys, and minipigs: comparison to simvastatin. Morand OH, et al. **J Lipid Res** 1997 Feb;38(2):373–90
Studies on the tight-binding nature of tolcapone inhibition of soluble and membrane-bound rat brain catechol-O-methyltransferase. Borges N, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):812–7
Modulation of ATP-sensitive and large-conductance Ca++-activated K+ channels by Zeneca ZD6169 in guinea pig bladder smooth muscle cells. Hu S, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):38–45
Effect of tolcapone on plasma and striatal apomorphine disposition in rats. Coudoré F, et al. **Neuroreport** 1997 Mar 3;8(4):877–80
Minor effect of tolcapone, a catechol-O-methyltransferase inhibitor, on extracellular dopamine levels modified by amphetamine or pargyline: a microdialysis study in anaesthetized rats. Tuomainen P, et al. **Pharmacol Toxicol** 1996 Jun;78(6):392–6
Comparative effects of intravesical versus extravesical administration of ZD6169 and cromakalim on the response of the in vitro rat whole bladder to field stimulation. Chun A, et al. **Pharmacology** 1996 Jun;52(6):347–52
Zeneca ZD6169 activates ATP-sensitive K+ channels in the urinary bladder of the guinea pig. Heppner TJ, et al. **Pharmacology** 1996 Sep;53(3):170–9
The influence of bromfenac on the pharmacokinetics and pharmacodynamic responses to glyburide in diabetic subjects. Boni JP, et al. **Pharmacotherapy** 1997 Jul-Aug; 17(4):783–90
Catechol-O-methyltransferase inhibition increases the uptake of 11C-3-(3,4-dihydroxyphenyl)-L-alanine in the rat pancreas. Bergström M, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1216–22

THERAPEUTIC USE

Potentiation of an antimalarial oxidant drug. Winter RW, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1449–54
Bromfenac sodium, acetaminophen/oxycodone, ibuprofen, and placebo for relief of postoperative pain. Johnson GH, et al. **Clin Ther** 1997 May-Jun;19(3):507–19
Effects of tolcapone, a catechol-O-methyltransferase inhibitor, on motor symptoms and pharmacokinetics of levodopa in patients with Parkinson's disease. Yamamoto M, et al. **J Neural Transm** 1997;104(2-3):229–36
New treatment for Parkinson's disease. **J R Soc Health** 1997 Jun;117(3):179
A crossover comparison of bromfenac sodium, naproxen sodium, and placebo for relief of pain from primary dysmenorrhea. Mehlisch DR, et al. **J Womens Health** 1997 Feb;6(1):83–92
Tolcapone, bromocriptine, and Parkinson's disease. French Tolcapone Study Group [letter] Agid Y, et al. **Lancet** 1997 Sep 6;350(9079):712–3
Tolcapone improves motor function and reduces levodopa requirement in patients with Parkinson's disease experiencing motor fluctuations: a multicenter, double-blind, randomized, placebo-controlled trial. Tolcapone Fluctuator Study Group I. Kurth MC, et al. **Neurology** 1997 Jan;48(1):81–7
Tolcapone in stable Parkinson's disease: efficacy and safety of long-term treatment. The Tolcapone Stable Study Group. Waters CH, et al. **Neurology** 1997 Sep;49(3):665–71

TOXICITY

Reproductive toxicology. 2-Hydroxy-4-methoxybenzophenone. **Environ Health Perspect** 1997 Feb;105 Suppl 1:313–4

BENZOPYRANS

ADMINISTRATION & DOSAGE

One-day cold perfusion of bimakalim and butanedione monoxime restores ex situ cardiac function. Stowe DF, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1884–92
A dose-response trial of nebivolol in essential hypertension. Van Nueten L, et al. **J Hum Hypertens** 1997 Feb; 11(2):139–44

ANALYSIS

Modified pulsed-field gradient NMR experiments for improved selectivity in the measurement of diffusion coefficients in complex mixtures: application to the analysis of the Suwannee River fulvic acid. Dixon AM, et al. **Anal Chem** 1997 Jun 1;69(11):2122–8
Characterization of humic substances using capillary electrophoresis with photodiode array and laser-induced fluorescence detection. Nordén M, et al. **Electrophoresis** 1997 Feb;18(2):292–9
Autoradiographic localisation of D3-dopamine receptors in the human brain using the selective D3-dopamine receptor agonist (+)-[3H]PD 128907. Hall H, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):240–7
[The biological activity of the therapeutic sapropel muds of Siberia] Kilina ES, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar-Apr; (2):23–5 **(Rus)**

ANTAGONISTS & INHIBITORS

Antagonism of the effects of (+)-PD 128907 on midbrain dopamine neurones in rat brain slices by a selective D2 receptor antagonist L-741,626. Bowery BJ, et al. **Br J Pharmacol** 1996 Dec;119(7):1491–7
The thromboxane A2 and K(ATP) channel antagonist actions of a series of sulphonylurea derivatives in the pig coronary artery. McPherson GA, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):193–200
Structure-activity relationship of quaternary ion antagonism of levcromakalim-induced relaxation in pig coronary artery. Piekarska AE, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):37–44
The relaxant effect of extract of Phyllanthus urinaria in the guinea-pig isolated trachea. Evidence for involvement of ATP-sensitive potassium channels. Paulino N, et al. **J Pharm Pharmacol** 1996 Nov;48(11):1158–63

BLOOD

Simultaneous determination of a potassium channel opener and its metabolite in rat plasma with column-switching liquid chromatography using atmospheric pressure chemical ionisation. Zell M, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):135–43

CHEMICAL SYNTHESIS

Synthesis and biological properties of some 2H-1-benzopyrano[7,8-b][1,4]benzodioxin-2-ones. Rodighiero P, et al. **Farmaco** 1997 Jan;52(1):7–12
Synthesis of a series of Homopterocarpane derivatives with potential antitumor and anti-AIDS activity. Valenti P, et al. **Farmaco** 1997 Jan;52(1):13–9
Synthesis of novel trans-4-(substituted-benzamido)-3,4-dihydro-2H-benzo[b]-pyran-3-ol derivatives as potential anticonvulsant agents with a distinctive binding profile. Chan WN, et al. **J Med Chem** 1996 Nov 8;39(23):4537–9
Synthesis and selective coronary vasodilatory activity of 3,4-dihydro-2,2-bis(methoxymethyl)-2H-1-benzopyran-3-ol derivatives: novel potassium channel openers. Cho H, et al. **J Med Chem** 1996 Sep 13;39(19):3797–805
(S)-(+)-4-[7-(2,2-dimethyl-1-oxopropoxy)-4-methyl-2-[4-[2-(1-piperidinyl)-ethoxy]phenyl]-2H-1-benzopyran-3-yl]-phenyl 2,2-dimethylpropanoate (EM-800): a highly potent, specific, and orally active nonsteroidal antiestrogen. Gauthier S, et al. **J Med Chem** 1997 Jul 4;40(14):2117–22
Synthesis of novel, aminoalkanolic derivatives of 5,7-dihydroxy-2-phenylbenzopyran-4-on as the potential cytostatic agents. Mazur A, et al. **Mater Med Pol** 1995 Oct-Dec;27(4):157–9

CHEMISTRY

Stereoselective syntheses of substituted pterocarpans with anti-HIV activity, and 5-aza-/5-thia-pterocarpan and 2-aryl-2,3-dihydrobenzofuran analogues. Engler TA, et al. **Bioorg Med Chem** 1996 Oct;4(10):1755–69
SMTP-1 and -2, novel analogs of staplabin produced by Stachybotrys microspora IFO30018. Kohyama T, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):172–4
The complexation of Cu(II) by anthropogenic fulvic acids extracted from composted urban and livestock wastes. Esteves da Silva JC, et al. **J Environ Sci Health B** 1997 Jul;32(4):469–82 (32 ref.)
Cardioselective antiischemic ATP-sensitive potassium channel (KATP) openers. 5. Identification of 4-(N-aryl)-substituted benzopyran derivatives with high selectivity. Rovnyak GC, et al. **J Med Chem** 1997 Jan 3; 40(1):24–34
Oxidation products of cyanidin 3-O-beta-D-glucoside with a free radical initiator. Tsuda T, et al. **Lipids** 1996 Dec; 31(12):1259–63

ISOLATION & PURIFICATION

Fusaricide, a new cytotoxic N-hydroxypyridone from Fusarium sp. McBrien KD, et al. **J Nat Prod** 1996 Dec; 59(12):1151–3
New prenylated quinones from Peperomia galioides. Mahiou V, et al. **J Nat Prod** 1996 Jul;59(7):694–7
Daleformis, a new phytoalexin from the roots fo Dalea filiciformis: an inhibitor of endothelin converting enzyme. Patil AD, et al. **J Nat Prod** 1997 Mar;60(3):306–8
Polyalthidin: new prenylated benzopyran inhibitor of the mammalian mitochondrial respiratory chain. Zafra-Polo MC, et al. **J Nat Prod** 1996 Oct;59(10):913–6
A method to remove environmental inhibitors prior to the detection of waterborne enteric viruses by reverse transcription-polymerase chain reaction. Ijzerman MM, et al. **J Virol Methods** 1997 Jan;63(1-2):145–53

METABOLISM

Biotransformation of the flavonoid tiliroside to 7-methylether tiliroside: bioactivity of this metabolite and of its acetylated derivative. Demetzos C, et al. **Cell Mol Life Sci** 1997 Jul; 53(7):587–92
The novel anticonvulsant SB 204269 binds to a stereospecific site in the mouse brain. Herdon H, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):R7–8
Harziphilone and fleephilone, two new HIV REV/RRE binding inhibitors produced by Trichoderma harzianum. Qian-Cutrone J, et al. **J Antibiot (Tokyo)** 1996 Oct; 49(10):990–7
Simultaneous determination of a potassium channel opener and its metabolite in rat plasma with column-switching liquid chromatography using atmospheric pressure chemical ionisation. Zell M, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):135–43
3-amino-3,4-dihydro-2H-1-benzopyran derivatives as 5-HT1A receptor ligands and potential anxiolytic agents. 2. Synthesis and quantitative structure-activity relationship studies of spiro[pyrrolidine- and piperidine-2,3'(2'H)-benzopyrans] Comoy C, et al. **J Med Chem** 1996 Oct 11;39(21):4285–98
Oxidation products of cyanidin 3-O-beta-D-glucoside with a free radical initiator. Tsuda T, et al. **Lipids** 1996 Dec; 31(12):1259–63
The evidence for the incorporation of fulvic acid into the bone and cartilage of rats. Wang C, et al. **Sci Total Environ** 1996 Nov 22;191(3):197–202

PHARMACOKINETICS

Pharmacokinetics of beta-adrenoceptor blockers in obese and normal volunteers. Cheymol G, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):563–70
A pharmacokinetic and pharmacodynamic interaction study between nebivolol and the H2-receptor antagonists cimetidine and ranitidine. Kamali F, et al. **Br J Clin Pharmacol** 1997 Feb;43(2):201–4
Pharmacokinetic study and cardiovascular monitoring of nebivolol in normal and obese subjects. Cheymol G, et al. **Eur J Clin Pharmacol** 1997;51(6):493–8
Location of the hydroxyl functions in hydroxylated metabolites of nebivolol in different animal species and human subjects as determined by on-line high-performance liquid chromatography-diode-array detection. Hendrickx J, et al. **J Chromatogr A** 1996 Apr 5;729(1-2):341–54
Transdermal permeation of alniditan by iontophoresis: in vitro optimization and human pharmacokinetic data. Jadoul A, et al. **Pharm Res** 1996 Sep;13(9):1348–53

PHARMACOLOGY

Inhibition of contractile responses of human myometrium and intramyometrial arteries by potassium channel openers. Kostrzewska A, et al. **Acta Obstet Gynecol Scand** 1996 Nov; 75(10):886–91
Comparative cardioprotective effects of cromakalim and diltiazem in ischemic hypertrophied rat hearts. Grover GJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H174–82
Role of ATP-sensitive K+ channels in ischemic preconditioning of skeletal muscle against infarction. Pang CY, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H44–51
An ATP-sensitive potassium channel activator reduces infarct volume in focal cerebral ischemia in rats. Takaba H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R583–6
Halothane attenuates endothelium-dependent pulmonary vasorelaxant response to lemakalim, an adenosine triphosphate (ATP)-sensitive potassium channel agonist. Seki S, et al. **Anesthesiology** 1997 Sep;87(3):625–34
Effects of cromakalim and glibenclamide in ischemic and reperfused hearts. Tosaki A, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:460–5
Inhibition of cholesterol ester transfer protein CGS 25159 and changes in lipoproteins in hamsters. Kothari HV, et al. **Atherosclerosis** 1997 Jan 3;128(1):59–66
Effects of calcium on brazilin-induced glucose transport in isolated rat epididymal adipocytes. Khil LY, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):97–101
Influences of fulvic acid on bioavailability and toxicity of selenite for wheat seedling and growth. Wang Z, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):147–62
The comparison of the responsiveness of human isolated internal mammary and gastroepiploic arteries to levcromakalim: an alternative approach to the management of graft spasm. Akar F, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):49–56
Cellular localization of the inhibitory action of abruquinone A against respiratory burst in rat neutrophils. Hsu MF, et al. **Br J Pharmacol** 1997 Mar;120(5):917–25
Effect of englitazone on KATP and calcium-activated non-selective cation channels in CRI-G1 insulin-secreting cells. Rowe IC, et al. **Br J Pharmacol** 1997 Jun;121(3):531–9
Characterization of the pharmacological profile of the potent

LTB4 antagonist CP-105,696 on murine LTB4 receptors in vitro. Showell HJ, et al. **Br J Pharmacol** 1996 Mar; 117(6):1127-32

Effects of levcromakalim and nucleoside diphosphates on glibenclamide-sensitive K+ channels in pig urethral myocytes. Teramoto N, et al. **Br J Pharmacol** 1997 Apr; 120(7):1229-40

Activation by levcromakalim and metabolic inhibition of glibenclamide-sensitive K channels in smooth muscle cells of pig proximal urethra. Teramoto N, et al. **Br J Pharmacol** 1996 Jun;118(3):635-42

Effect of membrane hyperpolarization induced by a K+ channel opener on histamine-induced Ca2+ mobilization in rabbit arterial smooth muscle. Watanabe Y, et al. **Br J Pharmacol** 1996 Mar;117(6):1302-8

Relaxant effects of potassium-channel openers on normal and hyper-reflexic detrusor muscle. Martin SW, et al. **Br J Urol** 1997 Sep;80(3):405-13

Interactive effects of stimulation of D1 and D2 dopamine receptors on Fos expression in the lateral habenula. Wirtshafter D, et al. **Brain Res** 1997 Mar 7;750(1-2):245-50

Potassium channel opener reduces extracellular glutamate concentration in rat focal cerebral ischemia. Fujita H, et al. **Brain Res Bull** 1997;43(4):365-8

Blockade of the stimulatory effect of estrogens, OH-tamoxifen, OH-toremifene, droloxifene, and raloxifene on alkaline phosphatase activity by the antiestrogen EM-800 in human endometrial adenocarcinoma Ishikawa cells. Simard J, et al. **Cancer Res** 1997 Aug 15;57(16):3494-7

Effects of rottlerin, an inhibitor of calmodulin-dependent protein kinase III, on cellular proliferation, viability, and cell cycle distribution in malignant glioma cells. Parmer TG, et al. **Cell Growth Differ** 1997 Mar;8(3):327-34

Biotransformation of the flavonoid tiliroside to 7-methylether tiliroside: bioactivity of this metabolite and of its acetylated derivative. Demetzos C, et al. **Cell Mol Life Sci** 1997 Jul; 53(7):587-92

Increased tolerance of the chronically hypoxic immature heart to ischemia. Contribution of the KATP channel. Baker JE, et al. **Circulation** 1997 Mar 4;95(5):1278-85

Comparative relaxant effects of cromakalim and pinacidil on the tonic contraction of canine coronary artery induced by phorbol 12,13-dibutylate. Kuromaru O, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):493-7

Combined effects of dehydroepiandrosterone and EM-800 on bone mass, serum lipids, and the development of dimethylbenz(A)anthracene-induced mammary carcinoma in the rat. Luo S, et al. **Endocrinology** 1997 Oct; 138(10):4435-44

Pharmacokinetic study and cardiovascular monitoring of nebivolol in normal and obese subjects. Cheymol G, et al. **Eur J Clin Pharmacol** 1997;51(6):493-8

Pharmacological properties of nebivolol in man. Van Bortel LM, et al. **Eur J Clin Pharmacol** 1997;51(5):379-84

The effects of cetiedil and its congeners on levcromakalim-stimulated 86Rb efflux from smooth and skeletal muscle. Benton DC. **Eur J Pharmacol** 1996 Dec 19;317(2-3):329-33

Dopamine D1 receptor desensitization profile in MPTP-lesioned primates. Blanchet PJ, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):13-20

A comparison between the effects of BMS-180448, a novel K+ channel opener, and cromakalim in rat and dog. D'Alonzo AJ, et al. **Eur J Pharmacol** 1995 Dec 27; 294(1):271-80

Endothelium-mediated and N omega-nitro-L-arginine methyl ester-sensitive responses to cromakalim and diazoxide in the rat mesenteric bed. Feleder EC, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):229-38

Y-26763 protects the canine heart from a stunning injury through opening of the KATP channels. Fukunari A, et al. **Eur J Pharmacol** 1997 Apr 4;323(2-3):197-204

Cromakalim blocks the purinergic response evoked in rat vas deferens by single-pulse electrical stimulation. Grana E, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):57-64

Relaxant effect of levcromakalim in isolated human small subcutaneous arteries. Hüsken BC, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):313-6

Modulation of vascular KATP channels in hypothyroidism. Jagadish M, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):63-9

Anti- and proconvulsive actions of levcromakalim, an opener of ATP-sensitive K+ channel, in the model of hippocampus-generating partial seizures in rats. Katsumori H, et al. **Eur J Pharmacol** 1996 Sep 5;311(1):37-44

The effect of inhaled K+ channel openers on bronchoconstriction and airway microvascular leakage in anaesthetised guinea pigs. Kidney JC, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):81-7

Dopamine D2 receptors play a role in the (-)-apomorphine-like discriminative stimulus effects of (+)-PD 128907. Kleven MS, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):1-4

Y-26763 protects the working rat myocardium from ischemia/reperfusion injury through opening of KATP channels. Rahman F, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2-3):293-9

Involvement of K+ channel modulation in the proabsorptive effect of nitric oxide in the rat jejunum in vivo. Schirgi-Degen A, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2-3):257-62

Barakol, a natural anxiolytic, inhibits striatal dopamine release but off uptake in vitro. Thongsaard W, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):157-64

Effects of chronic oral administration of levcromakalim on in vitro contractile responses of arterial smooth muscle. Trongvanichnam K, et al. **Eur J Pharmacol** 1996 May 6; 303(1-2):39-45

Selective vasoconstriction by alniditan in the carotid vascular bed of anaesthetized dogs. Van de Water A, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):127-37

Inhibition by abruquinone A of phosphoinositide-specific phospholipase C activation in rat neutrophils. Wang JP, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):131-6

Allergic responses reduce the relaxant effect of beta-agonists but not potassium channel openers in guinea-pig isolated trachea. Houjou S, et al. **Eur Respir J** 1996 Oct; 9(10):2050-6

The effect of cromakalim on intracellular [Ca2+] in isolated rat skeletal muscle during fatigue and metabolic blockade. Burton FL, et al. **Exp Physiol** 1997 May;82(3):469-83

Inhibition of the mutagenicity of 2-nitrofluorene, 3-nitrofluoranthene and 1-nitropyrene by flavonoids, coumarins, quinones and other phenolic compounds. Edenharder R, et al. **Food Chem Toxicol** 1997 Mar-Apr; 35(3-4):357-72

Effects of SCA40 on human bronchi and on guinea pig main bronchi in vitro. Comparison with cromakalim. Naline E, et al. **Fundam Clin Pharmacol** 1996;10(4):368-78

The effect of the potassium channel activator, cromakalim, on antidepressant drugs in the forced swimming test in mice. Redrobe JP, et al. **Fundam Clin Pharmacol** 1996; 10(6):524-8

Differentiation of inodilatory responses by non-invasive measures of cardiovascular performance in healthy man. De Mey C, et al. **Int J Clin Pharmacol Ther** 1996 Dec; 34(12):525-32

SMTP-1 and -2, novel analogs of staplabin produced by Stachybotrys microspora IFO30018. Kohyama T, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):172-4

Staplabin, a novel fungal triprenyl phenol which stimulates the binding of plasminogen to fibrin and U937 cells. Shinohara C, et al. **J Antibiot (Tokyo)** 1996 Oct; 49(10):961-6

Synthesis and inhibitory activities of isochromophilone analogues against gp120-CD4 binding. Sun XL, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):689-92

Glyburide-reversible cardioprotective effects of BMS-180448: functional and energetic considerations. Grover GJ, et al. **J Cardiovasc Pharmacol** 1997 Jan; 29(1):28-38

In swine myocardium, the infarct size reduction induced by U-89232 is glibenclamide sensitive: evidence that U-89232 is a cardioselective opener of ATP-sensitive potassium channels. Rohmann S, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):69-74

Regional hemodynamic dose-response of lemakalim and glybenclamide in anesthetized rats. Smits GJ, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):49-56

Influence of cytochrome P-450 inhibitors on endothelium-dependent nitro-L-arginine-resistant relaxation and cromakalim-induced relaxation in rat mesenteric arteries. Van de Voorde J, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):827-32

Selectivity of BMS-180448 on myocardial versus brain blood flow in dogs and ferrets. Weselcouch EO, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):61-8

Effects of cromakalim and glibenclamide on myocardial high energy phosphates and intracellular pH during ischemia-reperfusion: 31P NMR studies. Docherty JC, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1665-73

Kinetics of bupivacaine after levcromakalim treatment in mice. Gantenbein M, et al. **J Pharm Pharmacol** 1997 Mar; 49(3):293-5

Effect of timing of treatment of the glyburide-reversible cardioprotective activity of BMS-180448. Gomoll AW, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):24-33

Adenosine A1 receptor blockade does not abolish the cardioprotective effects of the adenosine triphosphate-sensitive potassium channel opener bimakalim. Gross GJ, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):533-40

Mechanical and energetic effects of cromakalim on guinea pig left ventricular papillary muscle. Joseph T, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):464-71

Biphasic effects of D3-receptor agonists, 7-OH-DPAT and PD128907, on the D1-receptor agonist-induced hyperactivity in mice. Mori T, et al. **Jpn J Pharmacol** 1997 Mar;73(3):251-4

Bradykinin, lemakalim and sodium nitroprusside relax the mouse trachea in vitro by different mechanisms. Li L, et al. **Life Sci** 1997;61(7):PL67-73

Alniditan, a new 5-hydroxytryptamine1D agonist and migraine-abortive agent: ligand-binding properties of human 5-hydroxytryptamine1D alpha, human 5-hydroxytryptamine1D beta, and calf 5-hydroxytryptamine1D receptors investigated with [3H]5-hydroxytryptamine and [3H]alniditan. Leysen JE, et al. **Mol Pharmacol** 1996 Dec;50(6):1567-80

Analysis of determinants of binding and transcriptional activation of the pisatin-responsive DNA binding factor of Nectria haematococca. He J, et al. **Mol Plant Microbe Interact** 1996 Apr;9(3):171-9

Effects of the potassium channel openers KRN4884 and levcromakalim on the contraction of rat aorta induced by A23187, compared with nifedipine. Kawahara J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):460-5

The novel cardioprotective agent BMS-180448 activates a potassium conductance in cardiac and vascular smooth muscle. Lodge NJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):444-51

Ba2+ differentially inhibits the Rb+ efflux promoting and the vasorelaxant effects of levcromakalim and minoxidil sulfate in rat isolated aorta. Quast U, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):86-93

The behavioural and neurochemical profile of the putative dopamine D3 receptor agonist, (+)-PD 128907, in the rat. Bristow LJ, et al. **Neuropharmacology** 1996 Mar; 35(3):285-94

Differential effects of a K+ channel agonist and Ca2+ antagonists on myosin light chain phosphorylation in relaxation of endothelin-1-contracted tracheal smooth muscle. Katoch SS, et al. **Pflugers Arch** 1997 Feb; 433(4):472-7

Effects of cromakalim, pinacidil and glibenclamide on cholinergic transmission in rat isolated atria. Fabiani ME, et al. **Pharmacol Res** 1995 Sep;32(3):155-63

Comparative effects of intravesical versus extravesical administration of ZD6169 and cromakalim on the response of the in vitro rat whole bladder to field stimulation. Chun A, et al. **Pharmacology** 1996 Jun;52(6):347-52

Hemodynamic and cardiac effects of BMS-180448, a novel K+ATP opener, in anesthetized dogs and isolated rat hearts. D'Alonzo AJ, et al. **Pharmacology** 1996 Feb; 52(2):101-12

Decursinol angelate: a cytotoxic and protein kinase C activating agent from the root of Angelica gigas [letter] Ahn KS, et al. **Planta Med** 1997 Aug;63(4):360-1

Effect of the K+ channel openers NIP-121 and cromakalim on melittin-induced relaxation of guinea-pig isolated trachea [published erratum appears in Prostaglandins 1996 Oct;52(4):339] Shikada K, et al. **Prostaglandins** 1996 May; 51(5):351-61

Interaction between fulvic acids of different origins and active oxygen radicals. Wang C, et al. **Sci China C Life Sci** 1996 Jun;39(3):267-75

Effect of cromakalim on ischemic and reperfused immature heart: experiments with isolated neonatal New Zealand white rabbit hearts. Shimoe Y, et al. **Tokushima J Exp Med** 1996 Dec;43(3-4):135-41

Effectiveness of bactobolamine as a new immunosuppressive agent. Tomikawa S, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1276-8

The effects of cromakalim on the mediator releases from guinea pig lung mast cell activated by specific antigen-antibody reactions. Ro JY, et al. **Yonsei Med J** 1996 Oct;37(5):325-38

THERAPEUTIC USE

Prevention by cromakalim of spontaneously occurring cardiac necroses in polymyopathic hamsters. Jasmin G, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):587-91

Amelioration of ischemia/reperfusion injury in isolated rats hearts by the ATP-sensitive potassium channel opener BMS-180448. Monticello TM, et al. **Cardiovasc Res** 1996 Jan;31(1):93-101

Alniditan in the acute treatment of migraine attacks: a subcutaneous dose-finding study. Subcutaneous Alniditan Study Group. Goldstein J, et al. **Cephalalgia** 1996 Nov; 16(7):497-502

Is there a therapeutic future for "potassium channel openers"? [editorial] Lawson K. **Clin Sci (Colch)** 1996 Dec; 91(6):651-63 (111 ref.)

Haemodynamic effects and pharmacokinetics of oral d- and l-nebivolol in hypertensive patients. Himmelmann A, et al. **Eur J Clin Pharmacol** 1996;51(3-4):259-64

KATP channel modulators increase survival rate during coronary occlusion-reperfusion in anaesthetized rats. Baczkó I, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):77-83

Anti-ulcer activity of cromakalim (BRL 34915), a potassium-channel opener, against experimentally induced gastric and duodenal ulcers in rats and guinea-pigs. Goswami S, et al. **J Pharm Pharmacol** 1997 Feb;49(2):195-9

Lymphedema the poor and benzo-pyrones: proposed amendments to the consensus document [letter; comment] [see comments] Casley-Smith JR, et al. **Lymphology** 1996 Dec;29(4):137-40. Comment on: Lymphology 1995 Sep;28(3):113-7. Comment in: Lymphology 1997 Mar;30(1):38-9.

[The use of sapropels in osteoarthritis in participants in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station] Ivanova TG, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May-Jun; (3):23-5 **(Rus)**

TOXICITY

Comparison of proarrhythmogenic effects of two potassium channel openers, levcromakalim (BRL 38227) and nicorandil (RP 46417): a high-resolution mapping study on rabbit heart. Robert E, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):109-18

Extracellular Mg++ manipulation prevents the proarrhythmic activity of cromakalim in

ischemic/reperfused diabetic hearts. Tosaki A, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):309–17

BENZO(A)PYRENE

Behavior of the basement membrane during carcinoma cell invasion in chemically induced carcinomas of the skin. Köpf-Maier P, et al. **Acta Anat (Basel)** 1996;155(1):1–13

Use of E mu-PIM-1 transgenic mice short-term in vivo carcinogenicity testing: lymphoma induction by benzo[a]pyrene, but not by TPA. Kroese ED, et al. **Carcinogenesis** 1997 May;18(5):975–80

Mutagen in cigarettes and foggy air [letter] [see comments] Middleton G. **Lancet** 1996 Dec 21–28;348(9043):1744. Comment in: Lancet 1997 Mar 1;349(9052):652.

Exposure to benzo[a]pyrene [letter; comment] Williams ML, et al. **Lancet** 1997 Mar 1;349(9052):652. Comment on: Lancet 1996 Dec 21–28;348(9043):1744.

ADMINISTRATION & DOSAGE

Mutational spectra vary with exposure conditions: benzo[a]pyrene in human cells. Chen J, et al. **Mutat Res** 1996 Oct 25;357(1–2):209–17

Route-specific cellular expression of cytochrome P4501A (CYP1A) in fish (Fundulus heteroclitus) following exposure to aqueous and dietary benzo[a]pyrene. Van Veld PA, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):348–59

Effect of the route of benzo[a]pyrene administration on sister chromatid exchange and DNA binding in bone marrow of mice differing with respect to cytochrome P450 1A1 induction. Brauze D, et al. **Toxicol Lett** 1997 May 16; 91(3):211–7

ADVERSE EFFECTS

Possible role of indoor environment and coal combustion emission in lung carcinogenesis in Fuyuan County, China. Nakanishi Y, et al. **Neoplasma** 1997;44(1):69–72

ANALOGS & DERIVATIVES

Incorrect base insertion and prematurely terminated transcripts during T7 RNA polymerase transcription elongation past benzo[a]pyrenediol epoxide-modified DNA. Choi DJ, et al. **J Mol Biol** 1996 Nov 29;264(2):213–9

ANALYSIS

Benzo[a]pyrene coated ferric oxide and aluminum oxide particles: uptake, metabolism and DNA binding in hamster pulmonary alveolar macrophages and tracheal epithelial cells in vitro [published erratum appears in Carcinogenesis 1997 May;18(5):1123] Cheu J, et al. **Carcinogenesis** 1997 Jan;18(1):167–75

Comparison of 32P-postlabeling and HPLC-FD analysis of DNA adducts in rats acutely exposed to benzo(a)pyrene. Godschalk RW, et al. **Chem Biol Interact** 1997 Apr 18; 104(1):41–54

Exposure to PAH compounds among cokery workers in the oil shale industry. Kuljukka T, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:539–41

Determination of benzo[a]pyrene in lipid-soluble liquid smoke (LSLS) by HPLC-FL. García Falcón MS, et al. **Food Addit Contam** 1996 Oct;13(7):863–70

Benzo(a)pyrene in Brazilian vegetable oils. Pupin AM, et al. **Food Addit Contam** 1996 Aug-Sep;13(6):639–45

32P-Postlabeling high-performance liquid chromatographic improvements to characterize DNA adduct stereoisomers from benzo[a]pyrene and benzo[c]phenanthrene, and to separate DNA adducts from 7,12-dimethylbenz[a]anthracene. Zeisig M, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):341–50

Environmental and health monitoring in Lithuanian cities: exposure to heavy metals and benz(a)pyrene in Vilnius and Siauliai residents. Ptashekas J, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):135–41

[Comparative characterization of heat electric power plants as the source of atmospheric pollution by benz(a)pyrenes] Kireev GV, et al. **Gig Sanit** 1996 Nov-Dec;(6):38–9 **(Rus)**

ANTAGONISTS & INHIBITORS

Inhibition of benzo[a]pyrene-DNA adduct formation by Aloe barbadensis Miller. Kim HS, et al. **Carcinogenesis** 1997 Apr;18(4):771–6

A comparison of the antimutagenic potential of green, black and decaffeinated teas: contribution of flavanols to the antimutagenic effect. Bu-Abbas A, et al. **Mutagenesis** 1996 Nov;11(6):597–603

Mixed disulfides from disulfiram inhibit the benzo[a]pyrene induced mutagenesis. Lee BH, et al. **Mutat Res** 1996 Dec 20;371(3–4):215–20

CHEMISTRY

Benzo[a]pyrene and its analogues: structural studies of molecular strain. Carrell CJ, et al. **Carcinogenesis** 1997 Feb; 18(2):415–22

Enrichment of benzo[a]pyrene in smoked food products and determination by high-performance liquid chromatography-fluorescence detection. García Falcón MS, et al. **J Chromatogr A** 1996 Nov 15;753(2):207–15

[Specifics of interaction between benz(a)pyrene and dibenzo(a,l)pyrene with DNA of various mouse tissues] Likhachev AI, et al. **Vopr Onkol** 1996;42(5):76–9 (Eng. Abstr.) **(Rus)**

METABOLISM

Uptake and elimination of benzo[a]pyrene in the terrestrial isopod Porcellio scaber. van Brummelen TC, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):277–85

Binding and transport of benzo[a]pyrene by blood plasma lipoproteins: the possible role of apolipoprotein B in this process. Polyakov LM, et al. **Bioconjug Chem** 1996 Jul-Aug;7(4):396–400

Uptake and metabolism of benzo(a)pyrene absorbed to sediment by the freshwater invertebrate species Chironomus riparius and Sphaerium corneum. Borchert J, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):158–65

Urinary excretion of benzo[a]pyrene metabolites following intravenous, oral, and cutaneous benzo[a]pyrene administration. Bouchard M, et al. **Can J Physiol Pharmacol** 1997 Mar;75(3):185–92

Effect of naturally occurring coumarins on the formation of epidermal DNA adducts and skin tumors induced by benzo[a]pyrene and 7,12-dimethylbenz[a]anthracene in SENCAR mice. Cai Y, et al. **Carcinogenesis** 1997 Aug; 18(8):1521–7

Site-specific modification of the human N-ras proto-oncogene with each diol epoxide metabolite of benzo[a]pyrene and thermal denaturation studies of the adducted duplexes. Chaturvedi S, et al. **Carcinogenesis** 1996 Dec;17(12):2747–52

Induction of a rat liver benzo[a]pyrene-trans-7,8-dihydrodiol glucuronidating activity by oltipraz and beta-naphthoflavone. Kessler FK, et al. **Carcinogenesis** 1997 Jan;18(1):107–14

Toxicity of iron oxides and metabolites of benzo[a]pyrene alone or in combination in cells culture and identification by laser microprobe mass spectrometry. Boutin AC, et al. **Cent Eur J Public Health** 1996;4 Suppl:58–9

Comparison of 32P-postlabeling and HPLC-FD analysis of DNA adducts in rats acutely exposed to benzo(a)pyrene. Godschalk RW, et al. **Chem Biol Interact** 1997 Apr 18; 104(1):41–54

Depurinating and stable benzo[a]pyrene-DNA adducts formed in isolated rat liver nuclei. Devanesan PD, et al. **Chem Res Toxicol** 1996 Oct-Nov;9(7):1113–6

Induction of terata in hamsters by solanidane alkaloids derived from Solanum tuberosum. Gaffield W, et al. **Chem Res Toxicol** 1996 Mar;9(2):426–33

Simulation of human benzo[a]pyrene metabolism deduced from the analysis of individual kinetic steps in recombinant yeast. Gautier JC, et al. **Chem Res Toxicol** 1996 Mar; 9(2):418–25

Dietary modulation of phase 1 and phase 2 activities with benzo(a)pyrene and related compounds in the intestine but not the liver of the channel catfish, Ictalurus punctatus. James MO, et al. **Drug Metab Dispos** 1997 Mar;25(3):346–54

Comparative metabolism of the tobacco-related carcinogens benzo[a]pyrene, 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol, and N'-nitrosonornicotine in human hepatic microsomes. Staretz ME, et al. **Drug Metab Dispos** 1997 Feb;25(2):154–62

ATP depletion affects the phosphorylation state, ligand binding, and nuclear transport of the 4 S polycyclic aromatic hydrocarbon-binding protein in rat hepatoma cells. Bhat R, et al. **J Biol Chem** 1996 Dec 20; 271(51):32551–6

Effects of p-chlorotoluene (PCT) on rat lung and liver benzo[a]pyrene metabolism and microsomal membrane structure and function. Zewdie T, et al. **J Toxicol Environ Health** 1997 Feb 7;50(2):159–72

Stability of benzo[a]pyrene DNA adducts in rat tissues during their long-term storage at -20 degrees C or -80 degrees C. Binková B, et al. **Mutat Res** 1996 Dec 20; 371(3–4):229–35

Contribution of human cytochrome P450 to benzo[a]pyrene and benzo[a]pyrene-7,8-dihydrodiol metabolism, as predicted from heterologous expression in yeast. Gautier JC, et al. **Pharmacogenetics** 1996 Dec;6(6):489–99

Chronic, topical exposure to benzo[a]pyrene induces relatively high steady-state levels of DNA adducts in target tissues and alters kinetics of adduct loss. Talaska G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7789–93

Urinary excretion kinetics of pyrene and benzo(a)pyrene metabolites following intravenous administration of the parent compounds or the metabolites. Bouchard M, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):301–9

PHARMACOKINETICS

Uptake and metabolism of benzo(a)pyrene absorbed to sediment by the freshwater invertebrate species Chironomus riparius and Sphaerium corneum. Borchert J, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):158–65

Inhibitory effects of naturally occurring coumarins on the metabolic activation of benzo[a]pyrene and 7,12-dimethylbenz[a]anthracene in cultured mouse keratinocytes. Cai Y, et al. **Carcinogenesis** 1997 Jan; 18(1):215–22

Benzo[a]pyrene coated ferric oxide and aluminum oxide particles: uptake, metabolism and DNA binding in hamster pulmonary alveolar macrophages and tracheal epithelial cells in vitro [published erratum appears in Carcinogenesis 1997 May;18(5):1123] Cheu J, et al. **Carcinogenesis** 1997 Jan;18(1):167–75

PHARMACOLOGY

Benzo(a)pyrene, but not 2,3,7,8-tetrachlorodibenzo-p-dioxin, alters cell proliferation and c-myc and growth factor expression in human placental choriocarcinoma JEG-3 cells. Zhang L, et al. **Biochem Biophys Res Commun** 1997 Feb 3; 231(1):117–20

Oxidative stress to DNA, protein, and antioxidant enzymes (superoxide dismutase and catalase) in rats treated with benzo(a)pyrene. Kim KB, et al. **Cancer Lett** 1997 Feb 26; 113(1–2):205–12

Benzo[a]pyrene up-regulates cyclooxygenase-2 gene expression in oral epithelial cells. Kelley DJ, et al. **Carcinogenesis** 1997 Apr;18(4):795–9

Cell proliferation and nuclear abnormalities are increased and apoptosis is decreased in the epidermis of the p53 null mouse after topical application of benzo[a]pyrene. Miller ML, et al. **Cell Prolif** 1996 Oct;29(10):561–76

Peroxidase-dependent bioactivation and oxidation of DNA and protein in benzo[a]pyrene-initiated micronucleus formation. Kim PM, et al. **Free Radic Biol Med** 1997; 23(4):579–96

A benzo[a]pyrene-induced cell cycle checkpoint resulting in p53-independent G1 arrest in 3T3 fibroblasts. Vaziri C, et al. **J Biol Chem** 1997 Jan 31;272(5):2762–9

Colcemid alters S phase and other parameters in skin during chronic exposure to benzo(a)pyrene. Miller ML, et al. **Microsc Res Tech** 1996 Nov 1;35(4):307–13

Mutant frequency of lacI in transgenic mice following benzo[a]pyrene treatment and partial hepatectomy. Shane BS, et al. **Mutat Res** 1997 Jun 9;377(1):1–11

The induction of proliferative vascular smooth muscle cell phenotypes by benzo[a]pyrene does not involve mutational activation of ras genes. Zhang Y, et al. **Mutat Res** 1997 Feb 3;373(2):285–92

Depletion of glutathione by benzo(a)pyrene metabolites, ionomycin, thapsigargin, and phorbol myristate in human peripheral blood mononuclear cells. Romero DL, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):62–9

TOXICITY

Inhibitory effect of crocetin on benzo(a)pyrene genotoxicity and neoplastic transformation in C3H10T1/2 cells. Chang WC, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3603–8

The induction of proliferative vascular smooth muscle cell phenotypes by benzo(a)pyrene is characterized by up-regulation of inositol phospholipid metabolism and c-Ha-ras gene expression. Ramos KS, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):213–22

Effects of carbon tetrachloride administration on initiation of liver cell foci by the non-hepatocarcinogens N-methyl-N'-nitro-N-nitrosoguanidine (MNNG) and benzo(a)pyrene (B(a)P). Kobayashi K, et al. **Cancer Lett** 1997 Sep 16;118(1):55–60

Carcinogenicity of benzo[a]pyrene and manufactured gas plant residues in infant mice. Rodriguez LV, et al. **Carcinogenesis** 1997 Jan;18(1):127–35

Toxicity of ferric oxide and benzo[a]pyrene alone or in combination in respiratory tract of Sprague Dawley rats. Gosset P, et al. **Cent Eur J Public Health** 1996;4 Suppl:56–7

Expanded analysis of benzo[a]pyrene-DNA adducts formed in vitro and in mouse skin: their significance in tumor initiation. Chen L, et al. **Chem Res Toxicol** 1996 Jul-Aug; 9(5):897–903

Benzo[a]pyrene-DNA adducts inhibit the DNA helicase activity of the bacteriophage T7 gene 4 protein. Yong Y, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):179–87

Modulated cytokine production from cervical lymph node cells treated with B[a]P and PCB. Fujimaki H, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1487–93

A review of the chronic toxicity, carcinogenicity, and possible mechanisms of action of inorganic acid mists in animals. Swenberg JA, et al. **Crit Rev Toxicol** 1997 May; 27(3):253–9 (28 ref.)

Evaluation of the developmental toxicity of benzo[alpha]pyrene and 2-acetylaminofluorene using Xenopus: modes of biotransformation. Stover Group. Propst TL, et al. **Drug Chem Toxicol** 1997 Feb-May; 20(1-2):45–61

Mutagenic response of the endogenous hprt gene and lacI transgene in benzo[a]pyrene-treated Big Blue B6C3F1 mice. Skopek TR, et al. **Environ Mol Mutagen** 1996; 28(4):376–84

Differential diagnosis of malignant tumours in the abdominal cavity of rats after intraperitoneal injection of crocidolite or benzo[a]pyrene. Friemann J, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):13–7

Cystic squamous cell carcinomas in the lungs of Syrian golden hamsters induced by coal oven flue exhaust mixed with pyrolized tar pitch in combination with benzo(a)pyrene. Rittinghausen S, et al. **Exp Toxicol Pathol** 1997 Feb;49(1-2):11–4

Evidence for embryonic prostaglandin H synthase-catalyzed bioactivation and reactive oxygen species-mediated oxidation of cellular macromolecules in phenytoin and benzo[a]pyrene teratogenesis. Winn LM, et al. **Free Radic Biol Med** 1997;22(4):607–21

Variation in the response of T cells to concanavalin A after

in vitro exposure to benzo[A]pyrene and 2-aminofluorene. Lee M, et al. **Immunopharmacol Immunotoxicol** 1996 May; 18(2):309-21

Oxidation of erythrocyte protein and lipid, and hemolysis in rabbit red blood cells treated with benzo[a]pyrene or adriamycin. Lee SK, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):557-69

Differential carcinogenicity of benzo[a]pyrene in male and female CD-1 mouse lung. Sharma R, et al. **J Toxicol Environ Health** 1997 Sep;52(1):45-62

Spontaneous liver tumors and benzo[a]pyrene-induced lymphomas in XPA-deficient mice. de Vries A, et al. **Mol Carcinog** 1997 May;19(1):46-53

Tissue distribution of DNA adducts in rats treated by intramammillary injection with dibenzo[a,l]pyrene, 7,12-dimethylbenz[a]anthracene and benzo[a]pyrene. Arif JM, et al. **Mutat Res** 1997 Aug 1;378(1-2):31-9

A comparative investigation of DNA adducts, DNA strand breaks and gene mutations induced by benzo[a]pyrene and (+/-)-anti-benzo[a]pyrene-7,8-diol 9,10-oxide in cultured human cells. Hanelt S, et al. **Mutat Res** 1997 Apr 24; 390(1-2):179-88

Chemopreventive effects of S-(N,N-diethyldithiocarbamoyl)-N-acetyl-L-cysteine against benzo[a]pyrene. Lee BH, et al. **Mutat Res** 1997 Jul 3;377(2):167-75

Inhibitory effect of chlorophyllin on the frequency of sister chromatid exchanges produced by benzo[a]pyrene in vivo. Madrigal-Bujaidar E, et al. **Mutat Res** 1997 Jan 15; 388(1):79-83

Induction of SOS-independent mutations by benzo[a]pyrene treatment in Escherichia coli cells deficient in MutY or MutM DNA glycosylases: possible role of oxidative lesions. Urios A, et al. **Mutat Res** 1996 Sep 23;356(2):229-35

Detection of micronuclei in gill cells and haemocytes of mussels exposed to benzo[a]pyrene. Venier P, et al. **Mutat Res** 1997 Apr 24;390(1-2):33-44

Uptake of 7,12-dimethylbenz(a)anthracene and benzo(a)pyrene in melanin-containing tissues. Roberto A, et al. **Pharmacol Toxicol** 1996 Aug;79(2):92-9

Chronic, topical exposure to benzo[a]pyrene induces relatively high steady-state levels of DNA adducts in target tissues and alters kinetics of adduct loss. Talaska G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7789-93

[Organ cytotoxicity of selected polycyclic aromatic hydrocarbons in mice] Izdebska-Szymona K, et al. **Rocz Panstw Zakl Hig** 1997;48(1):13-21 (Eng. Abstr.) **(Pol)**

[Induction by benz(a)pyrene of squamous cell metaplasia of the respiratory epithelium in organ cultures: importance of the route of administration of the carcinogen and genetic susceptibility of the animals] Kolesnichenko TS, et al. **Arkh Patol** 1996 Jul-Aug;58(4):56-61 (Eng. Abstr.) **(Rus)**

[The role of genetic differences in the mother-fetus system during biotransformation of proteratogens] Popov VB. **Biull Eksp Biol Med** 1996 Oct;122(10):449-52 **(Rus)**

BENZO(A)PYRENE 7,8-DIHYDRODIOL 9,10-EPOXIDE see **7,8-DIHYDRO-7,8-DIHYDROXYBENZO(A)PYRENE 9,10-OXIDE**

3,4-BENZOPYRENE see **BENZO(A)PYRENE**

BENZOPYRENE DIHYDRODIOLS see **DIHYDROXYDIHYDROBENZOPYRENES**

BENZOPYRENES

ANALYSIS

Production of a high-affinity monoclonal antibody specific for 7-(benzo[alpha]pyren-6-yl) guanine and its application in a competitive enzyme-linked immunosorbent assay. Casale GP, et al. **Chem Res Toxicol** 1996 Sep;9(6):1037-43

Detection of DNA and globin adducts of polynuclear aromatic hydrocarbon diol epoxides by gas chromatography-mass spectrometry and -3H-CH3I postlabeling of released tetraols. Melikian AA, et al. **Chem Res Toxicol** 1996 Mar;9(2):508-16

CHEMISTRY

6-sulfooxymethylbenzo[a]pyrene is an ultimate electrophilic and carcinogenic form of the intermediary metabolite 6-hydroxymethylbenzo[a]pyrene. Flesher JW, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):554-8

Molecular modeling of the conformational complexity of (+)-anti-B[a]PDE-adducted DNA using simulated annealing. Kozack RE, et al. **Carcinogenesis** 1997 Aug; 18(8):1585-93

Conformational studies of stereoisomeric tetrols derived from syn- and anti-dibenzo[a,l]pyrene diol epoxides. Jankowiak R, et al. **Chem Res Toxicol** 1997 Jun;10(6):677-86

[Specifics of interaction between benz(a)pyrene and dibenzo(a,l)pyrene with DNA of various mouse tissues] Likhachev AI, et al. **Vopr Onkol** 1996;42(5):76-9 (Eng. Abstr.) **(Rus)**

METABOLISM

The catalytic activity of the endoplasmic reticulum-resident protein microsomal epoxide hydrolase towards carcinogens is retained on inversion of its membrane topology. Friedberg T, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):131-6

Disposition and biological activity of benzo[a]pyrene-7,8-dione. A genotoxic metabolite generated by dihydrodiol dehydrogenase. Flowers L, et al. **Biochemistry** 1996 Oct 22;35(42):13664-72

Stereoselective activation of dibenzo[a,l]pyrene and its trans-11,12-dihydrodiol to fjord region 11,12-diol 13,14-epoxides in a human mammary carcinoma MCF-7 cell-mediated V79 cell mutation assay. Ralston SL, et al. **Chem Res Toxicol** 1997 Jun;10(6):687-93

Uptake and efflux of polycyclic aromatic hydrocarbons by Tetrahymena pyriformis: evidence for a resistance mechanism. Bamdad M, et al. **Cytometry** 1997 Jun 1; 28(2):170-5

The capacity of liver microsomes to form benzo[a]pyrene-diolepoxide-DNA adducts and induction of cytochrome P450 1A in feral fish exposed to pulp mill effluents. Kantoniemi A, et al. **Ecotoxicol Environ Saf** 1996 Nov;35(2):136-41

Benzo[a]pyrene diol epoxide-DNA cis adduct formation through a trans chlorohydrin intermediate. Meehan T, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1749-54

PHARMACOKINETICS

Metabolic activation of the potent carcinogen dibenzo[a,l]pyrene by human recombinant cytochromes P450, lung and liver microsomes. Shou M, et al. **Carcinogenesis** 1996 Nov;17(11):2429-33

PHARMACOLOGY

DNA strand scission by polycyclic aromatic hydrocarbon o-quinones: role of reactive oxygen species, Cu(II)/Cu(I) redox cycling, and o-semiquinone anion radicals,. Flowers L, et al. **Biochemistry** 1997 Jul 15;36(28):8640-8

TOXICITY

Benzpyrene treatment decreases the sexual activity of adult rats, what is reversed in neonatally allylestrenol treated animals. Karabélyos C, et al. **Acta Physiol Hung** 1996; 84(2):131-7

Pentachlorophenol enhances 9-hydroxybenzo [a] pyrene-induced hepatic DNA adduct formation in vivo and inhibits microsomal epoxide hydrolase and glutathione S-transferase activities in vitro: likely inhibition of epoxide detoxication by pentachlorophenol. Moorthy B, et al. **Arch Toxicol** 1996;70(11):696-703

Disposition and biological activity of benzo[a]pyrene-7,8-dione. A genotoxic metabolite generated by dihydrodiol dehydrogenase. Flowers L, et al. **Biochemistry** 1996 Oct 22;35(42):13664-72

Chemopreventive effect of chlorophyllin on mutagenicity and cytotoxicity of 6-sulfooxymethylbenzo[a]pyrene. Cho YS, et al. **Cancer Lett** 1996 Oct 22;107(2):223-8

Inflammatory response of mouse skin exposed to the very potent carcinogen dibenzo[a,l]pyrene: a model for tumor promotion. Casale GP, et al. **Fundam Appl Toxicol** 1997 Mar;36(1):71-8

Tissue distribution of DNA adducts in rats treated by intramammillary injection with dibenzo[a,l]pyrene, 7,12-dimethylbenz[a]anthracene and benzo[a]pyrene. Arif JM, et al. **Mutat Res** 1997 Aug 1;378(1-2):31-9

1,2-BENZOPYRONES see **COUMARINS**

1,4-BENZOPYRONES see **CHROMONES**

BENZOQUINONES

Distant electrostatic interactions modulate the free energy level of QA- in the photosynthetic reaction center. Miksovska J, et al. **Biochemistry** 1996 Dec 3;35(48):15411-7

Chemical crosslinking subtraction (CCLS). Hampson IN, et al. **Methods Mol Biol** 1997;68:221-36

ADMINISTRATION & DOSAGE

Plasma concentrations and pharmacokinetics of idebenone and its metabolites following single and repeated doses in young patients with mitochondrial encephalomyopathy. Pisano P, et al. **Eur J Clin Pharmacol** 1996;51(2):167-9

Clinical and brain bioenergetics improvement with idebenone in a patient with Leber's hereditary optic neuropathy: a clinical and 31P-MRS study. Cortelli P, et al. **J Neurol Sci** 1997 May 1;148(1):25-31

ANALYSIS

CDC group IIc: phenotypic characteristics, fatty acid composition, and isoprenoid quinone content. Hollis DG, et al. **J Clin Microbiol** 1996 Sep;34(9):2322-4

CHEMISTRY

The analysis of the electron transfer rate from steady-state fluorescence spectroscopy. Nakaema MK, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):61-6

ESEEM study of the phyllosemiquinone radical A1.- in 14N- and 15N-labeled photosystem I. Hanley J, et al. **Biochemistry** 1997 Sep 30;36(39):11543-9

One-step purification of histidine-tagged cytochrome bo3 from Escherichia coli and demonstration that associated quinone is not required for the structural integrity of the oxidase. Rumbley JN, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):131-42

2-Arylmethyl-1,4-benzoquinones. II. Novel inhibitors of platelet aggregation: synthesis and pharmacological evaluation. Suzuki K, et al. **Chem Pharm Bull (Tokyo)** 1997 Apr;45(4):668-74

Dopaminergic (4aR,10bS)-cis- and (4aS,10bS)-trans-octahydrobenzo[F]quinolines have similar pharmacophores. Froimowitz M, et al. **Drug Des Discov** 1995 Aug;13(1):73-81

Electron spin echo envelope modulation studies of the semiquinone anion radical of cholesterol oxidase from Brevibacterium sterolicum. Medina M, et al. **FEBS Lett** 1997 Jan 3;400(2):247-51

Enzymic- and thiol-mediated activation of halogen-substituted diaziridinylbenzoquinones: redox transitions of the semiquinone and semiquinone-thioether species. Goin J, et al. **Free Radic Biol Med** 1995 Mar; 18(3):525-36

Semicochliodinol A and B: inhibitors of HIV-1 protease and EGF-R protein tyrosine kinase related to asterriquinones produced by the fungus Chrysosporium merdarium. Fredenhagen A, et al. **J Antibiot (Tokyo)** 1997 May; 50(5):395-401

Induction of p21 mediated by reactive oxygen species formed during the metabolism of aziridinylbenzoquinones by HCT116 cells. Qiu X, et al. **J Biol Chem** 1996 Dec 13; 271(50):31915-21

A computational study on the relative reactivity of reductively activated 1,4-benzoquinone and its isoelectronic analogs. Mariam YH, et al. **J Comput Aided Mol Des** 1996 Oct;10(5):441-60

ISOLATION & PURIFICATION

Semicochliodinol A and B: inhibitors of HIV-1 protease and EGF-R protein tyrosine kinase related to asterriquinones produced by the fungus Chrysosporium merdarium. Fredenhagen A, et al. **J Antibiot (Tokyo)** 1997 May; 50(5):395-401

Betulinans A and B, two benzoquinone compounds from Lenzites betulina. Lee IK, et al. **J Nat Prod** 1996 Nov; 59(11):1090-2

Anserinones A and B: new antifungal and antibacterial benzoquinones from the coprophilous fungus Podospora anserina. Wang H, et al. **J Nat Prod** 1997 Jun;60(6):629-31

METABOLISM

Dopaquinone hydroxylation through topaquinone cofactor in copper amine oxidases: a simplified chemical model. Rinaldi AC, et al. **Biochem Mol Biol Int** 1996 Sep; 40(1):189-97

DNA strand scission by polycyclic aromatic hydrocarbon o-quinones: role of reactive oxygen species, Cu(II)/Cu(I) redox cycling, and o-semiquinone anion radicals,. Flowers L, et al. **Biochemistry** 1997 Jul 15;36(28):8640-8

Conserved nonliganding residues of the Rhodobacter capsulatus Rieske iron-sulfur protein of the bc1 complex are essential for protein structure, properties of the [2Fe-2S] cluster, and communication with the quinone pool. Liebl U, et al. **Biochemistry** 1997 Sep 30; 36(39):11675-84

The interaction of quinone and detergent with reaction centers of purple bacteria. I. Slow quinone exchange between reaction center micelles and pure detergent micelles. Shinkarev VP, et al. **Biophys J** 1997 May; 72(5):2304-19

Metabolism and pharmacokinetics of the anti-tumour agent 2,3,5-trimethyl-6-(3-pyridylmethyl)1,4-benzoquinone (CV-6504). Hussey HJ, et al. **Br J Cancer** 1996 Nov; 74(9):1349-53

Kinetics and metabolism of 1,4-dichlorobenzene in male Wistar rats: no evidence for quinone metabolites. Hissink AM, et al. **Chem Biol Interact** 1997 Jan 24;103(1):17-33

MP8-dependent oxidative dehalogenation: evidence for the direct formation of 1,4-benzoquinone from 4-fluorophenol by a peroxidase-type of reaction pathway. Osman AM, et al. **Chem Biol Interact** 1997 May 2;104(2-3):147-64

Synthesis of a benzene metabolite adduct, 3'-hydroxy-1,N2-benzetheno-2'-deoxyguanosine, and its site-specific incorporation into DNA oligonucleotides. Chenna A, et al. **Chem Res Toxicol** 1997 Feb;10(2):165-71

Identification of cytochromes P450 involved in the human liver microsomal metabolism of the thromboxane A2 inhibitor seratrodast (ABT-001). Kumar GN, et al. **Drug Metab Dispos** 1997 Jan;25(1):110-5

Inhibition of human DNA topoisomerase II by hydroquinone and p-benzoquinone, reactive metabolites of benzene. Hutt AM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1265-9

p-Benzoquinone, a reactive metabolite of benzene, prevents the processing of pre-interleukins-1 alpha and -1 beta to active cytokines by inhibition of the processing enzymes, calpain, and interleukin-1 beta converting enzyme. Kalf GF, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1251-6

Ascorbyl radical formation in patients with sepsis: effect of ascorbate loading. Galley HF, et al. **Free Radic Biol Med** 1996;20(1):139-43

Activation of CGS 12094 (prinomide metabolite) to 1,4-benzoquinone by myeloperoxidase: implications for

human idiosyncratic agranulocytosis. Parrish DD, et al. **Fundam Appl Toxicol** 1997 Feb;35(2):197–204

Production of hydroquinol from p–benzoquinone using yeast. Ghosh BK. **Indian J Exp Biol** 1995 Jan;33(1):22–4

Characterization by electron paramagnetic resonance of the role of the Escherichia coli nitrate reductase (NarGHI) iron–sulfur clusters in electron transfer to nitrate and identification of a semiquinone radical intermediate. Magalon A, et al. **J Bacteriol** 1997 Aug;179(16):5037–45

Impairment of the chemical defence of the beetle, Tenebrio molitor, by metacestodes (cysticeroids) of the tapeworm, Hymenolepis diminuta. Blankespoor CL, et al. **Parasitology** 1997 Jul;115 (Pt 1):105–10

[The interaction of pyruvate decarboxylase with the quinone–ferricyanide oxidative system] Vovk AI, et al. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):58–63 (Eng. Abstr.) **(Rus)**

[Inactivation of yeast pyruvate decarboxylase in the presence of substrate and quinone electron acceptors] Vovk AI, et al. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):105–9 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Plasma concentrations and pharmacokinetics of idebenone and its metabolites following single and repeated doses in young patients with mitochondrial encephalomyopathy. Pisano P, et al. **Eur J Clin Pharmacol** 1996;51(2):167–9

Enzymic– and thiol–mediated activation of halogen–substituted diaziridinylbenzoquinones: redox transitions of the semiquinone and semiquinone–thioether species. Goin J, et al. **Free Radic Biol Med** 1995 Mar; 18(3):525–36

PHARMACOLOGY

Inhibition of camel lens zeta–crystallin/NADPH:quinone oxidoreductase activity by chloranilic acid. al–Hamidi AA, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):415–21

Comet assay studies on the activation of two diaziridinylbenzoquinones in K562 cells [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1946] Ward TH, et al. **Biochem Pharmacol** 1997 Apr 25; 53(8):1115–21

Influence of phenolics on protein binding to the antioxidant responsive element (ARE). Wang B, et al. **Biochem Soc Trans** 1996 Aug;24(3):461S

Mechanism of the anti–tumour effect of 2,3,5–trimethyl–6–(3–pyridylmethyl) 1,4–benzoquinone (CV–6504). Hussey HJ, et al. **Br J Cancer** 1997;75(6):845–9

Modulation of sensitivity to cis–diamminedichloroplatinum (II) by thromboxane A2 receptor antagonists in non–small–cell lung cancer cell lines. Kasahara K, et al. **Br J Cancer** 1996 Nov;74(10):1553–8

Cellular localization of the inhibitory action of abruquinone A against respiratory burst in rat neutrophils. Hsu MF, et al. **Br J Pharmacol** 1997 Mar;120(5):917–25

Dopaminergic (4aR,10bS)–cis– and (4aS,10bS)–trans–octahydrobenzo[F]quinolines have similar pharmacophores. Froimowitz M, et al. **Drug Des Discov** 1995 Aug;13(1):73–81

Inhibition by abruquinone A of phosphoinositide–specific phospholipase C activation in rat neutrophils. Wang JP, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):131–6

Effect of idebenone on in vivo serotonin release and serotonergic receptors in young and aged rats. Scavini C, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):95–102

Protective effects of a novel quinone derivative, E3330, on mouse hepatitis virus (MHV)–induced chronic hepatitis in athymic nude mice. Uetsuka K, et al. **Exp Anim** 1997 Jul; 46(3):219–23

Cardiac sarcoplasmic reticulum Ca2+ pump as a target for benzoquinones. Floreani M, et al. **Gen Pharmacol** 1996 Jul; 27(5):873–8

Cross–linking and sequence specific alkylation of DNA by aziridinyl quinones. 2. Structure requirements for sequence selectivity. Hargreaves RH, et al. **J Med Chem** 1997 Jan 31;40(3):357–61

Acetaminophen, N–acetyl–benzo–quinoneimine, and apoptosis [comment] Luft FC. **J Mol Med** 1997 Jul; 75(7):465–6 (8 ref.). Comment on: J Mol Med 1997 Jul;75(7):522–7.

An analysis of the intracerebral ability to eliminate a nitroxide radical in the rat after administration of idebenone by an in vivo rapid scan electron spin resonance spectrometer. Yokoyama H, et al. **MAGMA** 1996 Sep–Dec;4(3–4):247–50

A controlled trial of idebenone in Huntington's disease. Ranen NG, et al. **Mov Disord** 1996 Sep;11(5):549–54

Benzoquinone inhibits the voltage–dependent induction of the mitochondrial permeability transition caused by redox–cycling naphthoquinones. Palmeira CM, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):338–47

Acceleration of hepatocellular energy by idebenone during early reperfusion after cold preservation ameliorates heat shock protein 70 gene expression in a pig liver model. Schütz E, et al. **Transplantation** 1997 Sep 27;64(6):901–7

THERAPEUTIC USE

Orally active NGF synthesis stimulators: potential therapeutic agents in Alzheimer's disease. Yamada K, et al. **Behav Brain Res** 1997 Feb;83(1–2):117–22 (32 ref.)

A controlled trial of idebenone in Huntington's disease. Ranen NG, et al. **Mov Disord** 1996 Sep;11(5):549–54

Idebenone improves cerebral mitochondrial oxidative metabolism in a patient with MELAS. Ikejiri Y, et al. **Neurology** 1996 Aug;47(2):583–5

A controlled study of 2 doses of idebenone in the treatment of Alzheimer's disease. Weyer G, et al. **Neuropsychobiology** 1997;36(2):73–82

Association between endothelial cell proliferation and pathologic changes in experimental alcoholic liver disease. Nanji AA, et al. **Toxicol Appl Pharmacol** 1996 Sep; 140(1):101–7

[Thromboxane A2 receptor antagonist in asthma therapy] Endo S, et al. **Nippon Rinsho** 1996 Nov;54(11):3045–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

TOXICITY

Relationship between acute toxicity of (bis)aziridinylbenzoquinones and cellular pyridine nucleotides. Morgan WA, et al. **Arch Toxicol** 1997; 71(9):582–7

Oxidative DNA damage and apoptosis induced by benzene metabolites. Hiraku Y, et al. **Cancer Res** 1996 Nov 15; 56(22):5172–8

Interaction of p–benzoquinone and p–biphenoquinone with microtubule proteins in vitro. Pfeiffer E, et al. **Chem Biol Interact** 1996 Sep 27;102(1):37–53

Inhibition of human DNA topoisomerase II by hydroquinone and p–benzoquinone, reactive metabolites of benzene. Hutt AM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1265–9

p–Benzoquinone, a reactive metabolite of benzene, prevents the processing of pre–interleukins–1 alpha and –1 beta to active cytokines by inhibition of the processing enzymes, calpain, and interleukin–1 beta converting enzyme. Kalf GF, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1251–6

The cigarette tar component p–benzoquinone blocks T–lymphocyte activation by inhibiting interleukin–2 production, but not CD25, ICAM–1, or LFA–1 expression. Geiselhart LA, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):30–6

1,2–BENZOQUINONES see **BENZOQUINONES**

1,4–BENZOQUINONES see **BENZOQUINONES**

BENZOTHIADIAZINE DIURETICS see **DIURETICS, THIAZIDE**

BENZOTHIADIAZINES

PHARMACOLOGY

Interactions of 2,3–benzodiazepines and cyclothiazide at AMPA receptors: patch clamp recordings in cultured neurones and area CA1 in hippocampal slices. Rammes G, et al. **Br J Pharmacol** 1996 Mar;117(6):1209–21

Allosteric interactions between cyclothiazide and AMPA/kainate receptor antagonists. Yamada KA, et al. **Br J Pharmacol** 1996 Apr;117(8):1663–72

Diazoxide and cyclothiazide convert AMPA–induced dark cell degeneration of Purkinje cells to edematous damage in the cerebellar slice. Strahlendorf JC, et al. **Brain Res** 1996 Aug 12;729(2):197–204

Neuroprotective effects of RPR 104632, a novel antagonist at the glycine site of the NMDA receptor, in vitro. Boireau A, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):237–46

Cyclothiazide unmasks an AMPA–evoked release of arachidonic acid from cultured striatal neurones. Williams RJ, et al. **J Neurochem** 1996 Oct;67(4):1551–8

AMPA receptor heterogeneity in rat hippocampal neurons revealed by differential sensitivity to cyclothiazide. Fleck MW, et al. **J Neurophysiol** 1996 Jun;75(6):2322–33

AMPA receptor flip/flop mutants affecting deactivation, desensitization, and modulation by cyclothiazide, aniracetam, and thiocyanate. Partin KM, et al. **J Neurosci** 1996 Nov 1;16(21):6634–47

Influence of the herbicide bentazon on soil microbial community. Allievi L, et al. **Microbiol Res** 1996 Mar; 151(1):105–11

Effect of the AMPA receptor modulator IDRA 21 on LTP in hippocampal slices. Arai A, et al. **Neuroreport** 1996 Sep 2;7(13):2211–5

TOXICITY

7–Chloro–3–methyl–3,4–dihydro–2H–1,2,4–benzothiadiazine S,S–dioxide: a partial modulator of AMPA receptor desensitization devoid of neurotoxicity. Impagnatiello F, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7053–8

BENZOTHIEPINS

PHARMACOLOGY

Inhibition of blood platelet functions by cationic amphiphilic drugs in relation to their physico–chemical properties. Jančinová V, et al. **Blood Coagul Fibrinolysis** 1996 Mar; 7(2):191–3

BENZOXAZOLES

Direct visualization of individual DNA molecules by fluorescence microscopy: characterization of the factors affecting signal/background and optimization of imaging conditions using YOYO. Gurrieri S, et al. **Anal Biochem** 1997 Jun 15;249(1):44–53

Real–time imaging of the reorientation mechanisms of YOYO–labelled DNA molecules during 90 degrees and 120 degrees pulsed field gel electrophoresis. Gurrieri S, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4759–67

ANALYSIS

Covalent binding of acidic drugs via reactive intermediates: detection of benoxaprofen and flunoxaprofen protein adducts in biological material. Dahms M, et al. **Pharmazie** 1996 Nov;51(11):874–81

BLOOD

High–performance liquid chromatographic method for the determination of an HIV–1 non–nucleoside reverse transcriptase inhibitor (L–696,229) in plasma samples from animals. Lee LL, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):323–8

CHEMICAL SYNTHESIS

Synthesis and antimicrobial activities of 2–[(alpha–methylbenzylidene)–hydrazino]benzoxazoles. Ersan S, et al. **Arzneimittelforschung** 1997 Aug;47(8):963–5

Synthesis and inhibitory effects of 2–pyridyl–2–thiobenzoxazole and 2–pyridyl–2–thiobenzimidazole derivatives on arachidonic acid metabolism. Lagorce JF, et al. **Arzneimittelforschung** 1995 Nov;45(11):1207–10

Synthesis and structure–activity relationships of some 2,5–disubstituted benzoxazoles and benzimidazoles as antimicrobial agents. Sener E, et al. **Farmaco** 1997 Feb; 52(2):99–103

Analgesic and antiinflammatory effects of some 2–mercaptobenzoxazole derivatives. Safak C, et al. **Pharmazie** 1996 Mar;51(3):180–2

Synthesis and antimicrobial activities of some new 2–substituted benzoxazole/benzothiazole derivatives. el–Shaaer HM, et al. **Pharmazie** 1997 Aug;52(8):585–9

CHEMISTRY

Improvement of dissolution rate and oral bioavailability of a sparingly water–soluble drug, (+/–)–5–[[2–(2–naphthalenylmethyl)–5–benzoxazolyl]–methyl]– 2, 4–thiazolidinedione, in co–ground mixture with D–mannitol. Kubo H, et al. **Biol Pharm Bull** 1997 Apr; 20(4):460–3

Influence of optical probing with YOYO on the electrophoretic behavior of the DNA molecule. Carlsson C, et al. **Electrophoresis** 1996 Apr;17(4):642–51

Field and pore size dependence of the electrophoretic mobility of DNA: a combination of fluorescence recovery after photobleaching and electric birefringence measurements. Tinland B, et al. **Electrophoresis** 1996 Jun; 17(6):1046–51

Fluorescence detection of specific sequence of nucleic acids by oxazole yellow–linked oligonucleotides. Homogeneous quantitative monitoring of in vitro transcription. Ishiguro T, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4992–7

PHARMACOKINETICS

Improvement of dissolution rate and oral bioavailability of a sparingly water–soluble drug, (+/–)–5–[[2–(2–naphthalenylmethyl)–5–benzoxazolyl]–methyl]– 2, 4–thiazolidinedione, in co–ground mixture with D–mannitol. Kubo H, et al. **Biol Pharm Bull** 1997 Apr; 20(4):460–3

PHARMACOLOGY

CP2289, a new 5–HT3 receptor ligand: agonistic activities on gastroenteric motility. Sato Y, et al. **Biol Pharm Bull** 1997 Jul;20(7):752–5

Oxidative degradation of cholesteryl esters in low–density lipoproteins: analysis by liquid chromatography–light scattering and protection by a new synthetic antioxidant, S20478. Arborati M, et al. **Fundam Clin Pharmacol** 1997; 11(1):68–77

NNC–19–1228 and NNC 22–0031, novel neuroleptics with a "mesolimbic–selective" behavioral profile. Nielsen EB, et al. **Psychopharmacology (Berl)** 1997 Jan;129(2):168–78

THERAPEUTIC USE

Combined therapy with zidovudine and L–697,661 in primary HIV infection. Perrin L, et al. **AIDS** 1996 Sep; 10(11):1233–7

BENZOXEPINS

ADVERSE EFFECTS

Hyperprolactinaemia and depression induced by oxetorone. Pradalier A. **Cephalalgia** 1996 Dec;16(8):560–1

ANALYSIS

Sensitive analytical method for the novel H1–receptor antagonist HSR–609 in human plasma and urine by high–performance liquid chromatography with pre–column fluorescent derivatization. Hasegawa H, et al.

BENZOXEPINS

J Chromatogr B Biomed Appl 1996 Dec 13;687(2):419–25

PHARMACOLOGY

Role of nitric oxide in gastrokinetic effects of the new benzoxepine derivative exepanol hydrochloride. Chaudhuri L, et al. **Arzneimittelforschung** 1996 Sep;46(9):923–5

Activity of compounds isolated from Chilean lichens against experimental cutaneous leishmaniasis. Fournet A, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jan;116(1):51–4

Studies on the novel antiallergic agent HSR-609: its penetration into the central nervous system in mice and guinea pigs and its selectivity for the histamine H1-receptor. Kakiuchi M, et al. **Jpn J Pharmacol** 1997 Apr; 73(4):291–8

BENZOYL PEROXIDE

ADVERSE EFFECTS

Acne and allergic contact dermatitis. Balato N, et al. **Contact Dermatitis** 1996 Jan;34(1):68–9

ANTAGONISTS & INHIBITORS

Action of eugenol as a retarder against polymerization of methyl methacrylate by benzoyl peroxide. Fujisawa S, et al. **Biomaterials** 1997 May;18(9):701–3

PHARMACOLOGY

Benzoyl peroxide modulates gene expression by epigenetic mechanism in mouse epidermal JB6 cells. Singh N, et al. **Indian J Exp Biol** 1996 Jul;34(7):647–51

An ultrastructural study of the retention hyperkeratosis of experimentally induced comedones in rabbits: the effects of three comedolytics. Oh CW, et al. **J Dermatol** 1996 Mar; 23(3):169–80

THERAPEUTIC USE

The comparative efficacy of benzoyl peroxide 5%/erythromycin 3% gel and erythromycin 4%/zinc 1.2% solution in the treatment of acne vulgaris. Chu A, et al. **Br J Dermatol** 1997 Feb;136(2):235–8

A case of pyoderma gangrenosum stabilized with lymecycline, topical benzoyl peroxide and treated by autograft. Vereecken P, et al. **Dermatology** 1997;195(1):50–1

[Pharma Clinics. Drug of the month. Benzamycin, an up-date on topical treatment of acne] Piérard GE. **Rev Med Liege** 1997 Feb;52(2):120–2 (21 ref.) **(Fre)**

TOXICITY

Insights into the mechanism of action of benzoyl peroxide as a tumor promoter. Rudra N, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):109–15

BENZOYL SUPEROXIDE see **BENZOYL PEROXIDE**

BENZOYLARGININE BETA-NAPHTHYLAMIDE see **BENZOYLARGININE-2-NAPHTHYLAMIDE**

BENZOYLARGININE-2-NAPHTHYLAMIDE

DIAGNOSTIC USE

Assessment of pretreatment orthodontic patients using the BANA test. N-benzoyl-DL-arginine-naphthylamide. Hirsch DI, et al. **Am J Orthod Dentofacial Orthop** 1997 Aug;112(2):154–8

BENZOYLHYDRATROPIC ACID see **KETOPROFEN**

BENZPHETAMINE

PHARMACOKINETICS

Major role of the CYP2C isozymes in deamination of amphetamine and benzphetamine: evidence for the quinidine-specific inhibition of the reactions catalysed by rabbit enzyme. Shiiyama S, et al. **Xenobiotica** 1997 Apr; 27(4):379–87

BENZTROPINE

ADMINISTRATION & DOSAGE

Intravenous sedation of involuntary psychiatric patients in New South Wales. Nielssen O, et al. **Aust N Z J Psychiatry** 1997 Apr;31(2):273–8

Rapid stabilization at home [letter] [see comments] Reding KM, et al. **Can J Psychiatry** 1996 Nov;41(9):605–6. Comment in: Can J Psychiatry 1997 May;42(4):427.

ADVERSE EFFECTS

Delirium associated with paroxetine and benztropine combination [letter] Armstrong SC, et al. **Am J Psychiatry** 1997 Apr;154(4):581–2

A case of neuroleptic malignant syndrome and serotonin disturbance [letter] Young C. **J Clin Psychopharmacol** 1997 Feb;17(1):65–6

ANALOGS & DERIVATIVES

3'-Chloro-3 alpha-(diphenylmethoxy)tropane but not 4'-chloro-3 alpha-(diphenylmethoxy)tropane produces a cocaine-like behavioral profile. Kline RH, et al. **J Med Chem** 1997 Mar 14;40(6):851–7

DIAGNOSTIC USE

[Regional distribution of the muscarinic cholinergic receptor in the human brain studied with 11C-benztropine and PET using an anatomical standardization technique] Ono S, et al. **Kaku Igaku** 1996 Jul;33(7):721–7 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Benztropine in the treatment of venlafaxine-induced sweating [letter] Garber A, et al. **J Clin Psychiatry** 1997 Apr; 58(4):176–7

Benztropine versus clozapine for the treatment of tremor in Parkinson's disease. Friedman JH, et al. **Neurology** 1997 Apr;48(4):1077–81

BENZYDAMINE

PHARMACOLOGY

Antibacterial activity of benzydamine and antibiotic-benzydamine combinations against multifold resistant clinical isolates. Fanaki NH, et al. **Arzneimittelforschung** 1996 Mar;46(3):320–3

Inhibition of inflammatory cytokine production and protection against endotoxin toxicity by benzydamine. Sironi M, et al. **Cytokine** 1996 Sep;8(9):710–6

Benzydamine inhibits the release of tumor necrosis factor-alpha and monocyte chemotactic protein-1 by Candida albicans-stimulated human peripheral blood cells. Sironi M, et al. **Int J Clin Lab Res** 1997;27(2):118–22

THERAPEUTIC USE

Benzydamine hydrochloride (Andolex) improves oral mucosal health in the immunocompromised patient [letter] [published erratum appears in S Afr Med J 1996 Dec;86(12):1566] Solomon C, et al. **S Afr Med J** 1996 Sep; 86(9):1136–7

[The use of the preparation Tantum Verde in treating diseases of the oral mucosa] Rabinovich IM, et al. **Stomatologiia (Mosk)** 1996;75(4):20–2 (Eng. Abstr.) **(Rus)**

[Clinical experience with the use of Tantum Rosa in cancer patients] Chulkova OV, et al. **Vopr Onkol** 1997; 43(3):339–40 **(Rus)**

BENZYL ALCOHOLS

Thermodynamic and fluorescence studies of the underlying factors in benzyl alcohol-induced lipid interdigitated phase. Chen CH, et al. **Arch Biochem Biophys** 1996 Sep 15; 333(2):401–6

Phosphatase inhibitors--III. Benzylaminophosphonic acids as potent inhibitors of human prostatic acid phosphatase. Beers SA, et al. **Bioorg Med Chem** 1996 Oct;4(10):1693–701

The effect of benzyl alcohol on recombinant human interferon-gamma. Lam XM, et al. **Pharm Res** 1997 Jun; 14(6):725–9

ADVERSE EFFECTS

Allergic contact dermatitis from benzyl alcohol. Corazza M, et al. **Contact Dermatitis** 1996 Jan;34(1):74–5

BLOOD

Gas chromatographic-mass spectrometric identification and quantitation of benzyl alcohol from human serum and postmortem blood after derivatization with 4-carbethoxy hexafluorobutyryl chloride: a novel derivative. Dasgupta A, et al. **J Forensic Sci** 1997 Jul;42(4):697–700

CHEMISTRY

Gas chromatographic-mass spectrometric identification and quantitation of benzyl alcohol from human serum and postmortem blood after derivatization with 4-carbethoxy hexafluorobutyryl chloride: a novel derivative. Dasgupta A, et al. **J Forensic Sci** 1997 Jul;42(4):697–700

METABOLISM

Sulfotransferase-mediated activation of some benzylic and allylic alcohols. Surh YJ. **Adv Exp Med Biol** 1996; 387:339–45 (31 ref.)

Stimulation of aryl metabolite production in the basidiomycete Bjerkandera sp. strain BOS55 with biosynthetic precursors and lignin degradation products. Mester T, et al. **Appl Environ Microbiol** 1997 May; 63(5):1987–94

Anionic tobacco peroxidase is active at extremely low pH: veratryl alcohol oxidation with a pH optimum of 1.8. Gazarian IG, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):369–72

PHARMACOLOGY

Permethrin absorption not detected in single-pass perfused rabbit ear, and absorption with oxidation of 3-phenoxybenzyl alcohol. Bast GE, et al. **Arch Toxicol** 1997;71(3):179–86

Oxidation of 4-methoxymandelic acid by lignin peroxidase. Mediation by veratryl alcohol. Tien M, et al. **J Biol Chem** 1997 Apr 4;272(14):8912–7

Gastrodin and p-hydroxybenzyl alcohol facilitate memory consolidation and retrieval, but not acquisition, on the passive avoidance task in rats. Hsieh MT, et al. **J Ethnopharmacol** 1997 Mar;56(1):45–54

Voltage-dependent inhibition of RCK1 K+ channels by phenol, p-cresol, and benzyl alcohol. Elliott AA, et al. **Mol Pharmacol** 1997 Mar;51(3):475–83

Modulation of organic cation transport and lipid fluidity by benzyl alcohol in rat renal brush-border membranes. Nabekura T, et al. **Pharm Res** 1996 Jul;13(7):1069–72

[Bactericidal activity determination of Biseptine, combination of chlorhexidine, benzalkonium chloride and benzylic alcohol, on 124 hospital bacterial strains] Reverdy ME, et al. **Pathol Biol (Paris)** 1997 Apr;45(4):331–5 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

p-Hydroxybenzyl alcohol attenuates learning deficits in the inhibitory avoidance task: involvement of serotonergic and dopaminergic systems. Wu CR, et al. **Chin J Physiol** 1996; 39(4):265–73

TOXICITY

Analysis of the leaching and toxicity of new amine activators for the curing of acrylic bone cements and composites. Liso PA, et al. **Biomaterials** 1997 Jan;18(1):15–20

BENZYL CARBINOL see **PHENYLETHYL ALCOHOL**

BENZYL COMPOUNDS

CHEMICAL SYNTHESIS

Synthesis of peripherally acting analgesic 3-arylpiperazinyl-5-benzyl-pyridazines. Moreau S, et al. **Arzneimittelforschung** 1996 Aug;46(8):800–5

CHEMISTRY

Synthesis and properties of new antisense oligodeoxynucleotides containing benzylphosphonate linkages. Samstag W, et al. **Antisense Nucleic Acid Drug Dev** 1996 Fall;6(3):153–6

Use of the Hmb backbone-protecting group in the synthesis of difficult sequences. Simmonds RG. **Int J Pept Protein Res** 1996 Jan-Feb;47(1–2):36–41

METABOLISM

Benzylfumaric, benzylmaleic, and Z- and E-phenylitaconic acids: synthesis, characterization, and correlation with a metabolite generated by Azoarcus tolulyticus Tol-4 during anaerobic toluene degradation. Migaud ME, et al. **Appl Environ Microbiol** 1996 Mar;62(3):974–8

Evidence for a multiple binding mode of bispyridinium-type allosteric modulators of muscarinic receptors. Kostenis E, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):385–92

The failure of substrate pKa to influence the microsomal formation of amides from N-benzylamines: the microsomal metabolism of N-benzyl pyrrolidine, N-benzyl carbazole and N-acetyl-N-benzyl-4-methylaniline. Ulgen M, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1320–6

PHARMACOLOGY

Effect of the kappa agonist fedotozine on perception of gastric distension in healthy humans. Coffin B, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):919–25

Benzyl-alpha-GalNAc inhibits sialylation of O-glycosidic sugar chains on CD44 and enhances experimental metastatic capacity in B16BL6 melanoma cells. Nakano T, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3577–84

Fedotozine blocks hypersensitive visceral pain in conscious rats: action at peripheral kappa-opioid receptors. Langlois A, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):211–7

Benzyl-N-acetyl-alpha-D-galactosaminide inhibits the sialylation and the secretion of mucins by a mucin secreting HT-29 cell subpopulation. Delannoy P, et al. **Glycoconj J** 1996 Oct;13(5):717–26

Effect of fedotozine on human distal colon. Adami M, et al. **Ital J Gastroenterol** 1996 Oct-Nov;28(8):441–6

Differential effects of fedotozine compared to other kappa agonists on diuresis in rats. Soulard CD, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1379–85

Gastroprokinetic effect of a new benzamide derivative itopride and its action mechanisms in conscious dogs. Iwanaga Y, et al. **Jpn J Pharmacol** 1996 Jun;71(2):129–37

BENZYL VIOLOGEN

METABOLISM

Reduction of benzyl viologen distinguishes genera of the class Mollicutes. Pollack JD, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):881–4

BENZYLAMINES

3,4-Dimethoxybenzylamine as a sensitive pre-column fluorescence derivatization reagent for the determination

of serotonin in human platelet-poor plasma. Ishida J, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):31–6

ADMINISTRATION & DOSAGE

A randomized trial to assess once-daily topical treatment of tinea corporis with butenafine, a new antifungal agent. Greer DL, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 1):231–5

One-week therapy with twice-daily butenafine 1% cream versus vehicle in the treatment of tinea pedis: a multicenter, double-blind trial. Savin R, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):S15–9

Treatment of interdigital tinea pedis with a 4-week once-daily regimen of butenafine hydrochloride 1% cream. Tschen E, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):S9–14

Topical butenafine for tinea pedis. **Med Lett Drugs Ther** 1997 Jul 4;39(1004):63–4

CHEMICAL SYNTHESIS

Synthesis of [11C]dapoxetine.HCl, a serotonin re-uptake inhibitor: biodistribution in rat and preliminary PET imaging in the monkey. Livni E, et al. **Nucl Med Biol** 1994 May;21(4):669–75

METABOLISM

Some histamine-related compounds interacting with the benzylamine-oxidizing activity of rat white adipocytes. Raimondi L, et al. **J Pharm Pharmacol** 1997 May; 49(5):542–50

The failure of substrate pKa to influence the microsomal formation of amides from N-benzylamines: the microsomal metabolism of N-benzyl pyrrolidine, N-benzyl carbazole and N-acetyl-N-benzyl-4-methylaniline. Ulgen M, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1320–6

PHARMACOKINETICS

Biodistribution of the lipophilic complexes 59Fe(RsalH2)3tach (R = H, NO2 and OMe) and 68Ga(NO2salH2)3tach. Bollinger JE, et al. **Nucl Med Biol** 1996 Jul;23(5):645–52

Synthesis of [11C]dapoxetine.HCl, a serotonin re-uptake inhibitor: biodistribution in rat and preliminary PET imaging in the monkey. Livni E, et al. **Nucl Med Biol** 1994 May;21(4):669–75

PHARMACOLOGY

Differential inhibition of fungal amd mammalian squalene epoxidases by the benzylamine SDZ SBA 586 in comparison with the allylamine terbinafine. Favre B, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):265–9

Neurotoxic effects of DSP-4 on the noradrenergic system of the goldfish brain. Villani L, et al. **Brain Behav Evol** 1996;47(5):219–24

Role of the locus coeruleus in the sleep rebound following two different sleep deprivation methods in the rat. González MM, et al. **Brain Res** 1996 Nov 18; 740(1–2):215–26

Selective inhibition of inducible nitric oxide synthase inhibits tumor growth in vivo: studies with 1400W, a novel inhibitor. Thomsen LL, et al. **Cancer Res** 1997 Aug 1; 57(15):3300–4

Potentiation by DSP-4 of EEG slowing and memory impairment in basal forebrain-lesioned rats. Abe K, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):149–55

A new and potent calmodulin antagonist, HF-2035, which inhibits vascular relaxation induced by nitric oxide synthase. Win NH, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1–3):119–26

Impaired exploratory behaviour after DSP-4 treatment in rats: implications for the increased anxiety after noradrenergic denervation. Harro J, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):447–55

1400W is a slow, tight binding, and highly selective inhibitor of inducible nitric-oxide synthase in vitro and in vivo. Garvey EP, et al. **J Biol Chem** 1997 Feb 21;272(8):4959–63

Antitumor properties of some 2-[(dimethylamino)methyl]phenylgold(III) complexes. Buckley RG, et al. **J Med Chem** 1996 Dec 20; 39(26):5208–14

HMN-709, a chlorobenzenesulfonamide derivative, is a new membrane-permeable calmodulin antagonist. Yokokura H, et al. **Jpn J Pharmacol** 1996 Oct;72(2):127–35

Region- and neurotransmitter-dependent species and strain differences in DSP-4-induced monoamine depletion in rodents. Fornai F, et al. **Neurodegeneration** 1996 Sep; 5(3):241–9

Effect of a phenylethanolamine N-methyltransferase inhibitor, 2,3-dichloro-alpha-methylbenzylamine, on the alpha-2-adrenoceptor function in the hypothalamus in rats. Kuboia M, et al. **Neuropsychobiology** 1996;33(3):132–7

THERAPEUTIC USE

Butenafine 1% cream in the treatment of tinea cruris: a multicenter, vehicle-controlled, double-blind trial. Lesher JL Jr, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):S20–4

Update on topical therapy for superficial fungal infections: focus on butenafine. Odom RB. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):S1–2

TOXICITY

Overflow of noradrenaline and dopamine in frontal cortex after [N-(2-chloroethyl)-N-ethyl-2-bromobenzylamine] (DSP-4) treatment: in vivo microdialysis study in anaesthetized rats. Kask A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):267–72

Noradrenergic DSP-4 lesions aggravate impairment of working memory produced by hippocampal muscarinic blockade in rats. Ohno M, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1–2):257–61

Destruction of central noradrenergic neurones with DSP4 impairs the acquisition of temporal discrimination but does not affect memory for duration in a delayed conditional discrimination task. al-Zahrani SS, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):166–73

BENZYLIDENE COMPOUNDS

ADMINISTRATION & DOSAGE

Tyrosine kinase inhibition ameliorates the hyperdynamic state and decreases nitric oxide production in cirrhotic rats with portal hypertension and ascites. López-Talavera JC, et al. **J Clin Invest** 1997 Aug 1;100(3):664–70

ANALYSIS

[Correlative study on the storage time and quality of rhizoma Dryopteris crassirhizomae] Zhang S, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr;21(4):206–7, 254 (Eng. Abstr.) **(Chi)**

BLOOD

Simultaneous determination of GTS-21 and its metabolite in rat plasma by high-performance liquid chromatography using solid-phase extraction. Azuma R, et al. **J Chromatogr B Biomed Appl** 1996 Nov 15;686(2):229–34

CHEMICAL SYNTHESIS

Synthesis and antiproliferative activity of tyrphostins containing quinoline moieties. Brunton VG, et al. **Anticancer Drug Des** 1996 Sep;11(6):463–83

Synthesis and antimicrobial activities of 2-[(alpha-methylbenzylidene)-hydrazino]benzoxazoles. Ersan S, et al. **Arzneimittelforschung** 1997 Aug;47(8):963–5

Synthesis of some new 2-methyl-4-(substituted benzylidene)1-phenyl-1,2,4 triazolo (3,4,-b) 1,4,5 thiadiazole as potential AChE inhibitory agents. Sen S, et al. **Boll Chim Farm** 1996 Sep;135(8):465–7

METABOLISM

Benzylfumaric, benzylmaleic, and Z- and E-phenylitaconic acids: synthesis, characterization, and correlation with a metabolite generated by Azoarcus tolulyticus Tol-4 during anaerobic toluene degradation. Migaud ME, et al. **Appl Environ Microbiol** 1996 Mar;62(3):974–8

Functional characterization of the novel neuronal nicotinic acetylcholine receptor ligand GTS-21 in vitro and in vivo. Briggs CA, et al. **Pharmacol Biochem Behav** 1997 May-Jun; 57(1–2):231–41

PHARMACOKINETICS

Zilascorb(2H), a new reversible protein synthesis inhibitor: clinical study of an oral preparation. Semb KA, et al. **Anticancer Drugs** 1997 Mar;8(3):296–303

PHARMACOLOGY

Altered physical state of p210bcr-abl in tyrphostin AG957-treated K562 cells. Kaur G, et al. **Anticancer Drugs** 1996 Nov;7(8):815–24

Relationship between ascorbyl radical intensity and apoptosis-inducing activity. Sakagami H, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2635–44

Ca2+ mobilization during cell death induction by sodium 5, 6-benzylidene-L-ascorbate. Takahashi H, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2629–34

Inhibitors of epidermal growth factor receptor kinase and of cyclin-dependent kinase 2 activation induce growth arrest, differentiation, and apoptosis of human papilloma virus 16-immortalized human keratinocytes. Ben-Bassat H, et al. **Cancer Res** 1997 Sep 1;57(17):3741–50

Specific inhibition of insulin-like growth factor-1 and insulin receptor tyrosine kinase activity and biological function by tyrphostins. Párrizas M, et al. **Endocrinology** 1997 Apr; 138(4):1427–33

Inhibition of plasminogen activator inhibitor-1 activity by two diketopiperazines, XR330 and XR334 produced by Streptomyces sp. Bryans J, et al. **J Antibiot (Tokyo)** 1996 Oct;49(10):1014–21

Inhibitory effect of a new butadiene derivative on the production of plasminogen activator inhibitor-1 in cultured bovine endothelial cells. Ohtani A, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1203–8

Inhibition of gastric mucosal regeneration by tyrphostin: evaluation of the role of epidermal growth factor receptor tyrosine kinase. Majumdar AP, et al. **J Lab Clin Med** 1996 Aug;128(2):173–80

Tyrphostins. 6. Dimeric benzylidenemalononitrile tyrophostins: potent inhibitors of EGF receptor tyrosine kinase in vitro. Gazit A, et al. **J Med Chem** 1996 Dec 6; 39(25):4905–11

GTS-21, a nicotinic agonist, protects against neocortical neuronal cell loss induced by the nucleus basalis magnocellularis lesion in rats. Nanri M, et al. **Jpn J Pharmacol** 1997 Jul;74(3):285–9

Nicotinic agonist modulation of neurotransmitter levels in the rat frontoparietal cortex. Summers KL, et al. **Jpn J Pharmacol** 1997 Jun;74(2):139–46

A new butadiene derivative, T-686, inhibits plasminogen activator inhibitor type-1 production in vitro by cultured human vascular endothelial cells and development of atherosclerotic lesions in vivo in rabbits. Vinogradsky B, et al. **Thromb Res** 1997 Feb 15;85(4):305–14

THERAPEUTIC USE

T-686, a novel inhibitor of plasminogen activator inhibitor-1, inhibits thrombosis without impairment of hemostasis in rats. Ohtani A, et al. **Eur J Pharmacol** 1997 Jul 9; 330(2–3):151–6

BENZYLIDENEACETOPHENONE see **CHALCONE**

BENZYLOXYRESORUFIN O-DEALKYLASE see **CYTOCHROME P-450 CYP2B1**

BENZYLPENICILLIN see **PENICILLIN G**

BEPRIDIL

ADVERSE EFFECTS

Torsade de pointes [letter; comment] Campens D. **Anesth Analg** 1996 Oct;83(4):887. Comment on: Anesth Analg 1995 Nov;81(5):1119.

ANALOGS & DERIVATIVES

Proton-donative antioxidant activity of fucoxanthin with 1,1-diphenyl-2-picrylhydrazyl (DPPH). Nomura T, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):361–70

Comparative study of the biotransformation of bepridil analogs in isolated liver cells from one rat. Relationships between structure and in vitro liver toxicity. Damatte E, et al. **Eur J Drug Metab Pharmacokinet** 1996 Oct-Dec; 21(4):315–25

Hydrogen bond formation as basis for radical scavenging activity: a structure-activity study of C-methylated dihydrochalcones from Myrica gale and structurally related acetophenones. Mathiesen L, et al. **Free Radic Biol Med** 1997;22(1–2):307–11

Scavenging effects of tea catechins and their derivatives on 1,1-diphenyl-2-picrylhydrazyl radical. Nanjo F, et al. **Free Radic Biol Med** 1996;21(6):895–902

Interaction between erythromycin and the benzodiazepines diazepam and flunitrazepam. Luurila H, et al. **Pharmacol Toxicol** 1996 Feb;78(2):117–22

C-methylated dihydrochalcones from Myrica gale L: effects as antioxidants and as scavengers of 1,1-diphenyl-2-picrylhydrazyl. Malterud KE, et al. **Pharmacol Toxicol** 1996 Feb;78(2):111–6

PHARMACOKINETICS

Comparative study of the biotransformation of bepridil analogs in isolated liver cells from one rat. Relationships between structure and in vitro liver toxicity. Damatte E, et al. **Eur J Drug Metab Pharmacokinet** 1996 Oct-Dec; 21(4):315–25

PHARMACOLOGY

Bepridil enhances in vitro antitumor activity of antiestrogens in human brain tumor cells. Lee YS, et al. **Cancer Lett** 1996 Dec 20;110(1–2):243–8

Block of Na+ channel by bepridil in isolated guinea-pig ventricular myocytes. Sato N, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):373–9

Bepridil exacerbates glutamate-induced deterioration of calcium homeostasis and cultured nerve cell injury. Storozhevykh TP, et al. **Int J Neurosci** 1996 Dec; 88(3–4):199–214

Bepridil-induced blockade of NMDA channels in rat hippocampal neurones. Sobolevsky A, et al. **Neuropharmacology** 1997 Mar;36(3):319–24

BER-H2 ANTIGENS see **ANTIGENS, CD30**

BERBERINE

ADMINISTRATION & DOSAGE

Effect of long-term administration of berberine on scopolamine-induced amnesia in rats. Peng WH, et al. **Jpn J Pharmacol** 1997 Jul;74(3):261–6

ANALOGS & DERIVATIVES

GTP regulation of (-)-stepholidine binding to R(H) of D1 dopamine receptors in calf striatum. Dong ZJ, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):227–32

Involvement of receptor reserve in D1 agonistic action of (-)-stepholidine in lesioned rats. Zou LL, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):233–40

BERBERINE

Mechanical and electrophysiological effects of 8-oxoberberine (JKL1073A) on atrial tissue. Chi JF, et al. **Br J Pharmacol** 1996 Jun;118(3):503-12

Augmentation of dopamine release by (-)-stepholidine from rabbit and rat caudate slices. Dong ZJ, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov;16(6):497-501

(-)-stepholidine vs 12-chloroscoulerine enantiomers on firing activity of substantia nigral dopamine neurons. Zhang XX, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):18-22

Dual actions of (-)-stepholidine on the dopamine receptor-mediated adenylate cyclase activity in rat corpus striatum. Dong ZJ, et al. **Life Sci** 1997;61(4):465-72

The differential involvement of adrenoceptors in challenges of different intensities. Haller J, et al. **Neurobiology (Bp)** 1996;4(1-2):111-3

Tetrahydroberberine suppresses dopamine-induced potassium current in acutely dissociated CA1 pyramidal neurons from rat hippocampus. Wu J, et al. **Neurosci Lett** 1996 Apr 5;207(3):155-8

Tetrahydroberberine inhibits acetylcholine-induced K+ current in acutely dissociated rat hippocampal CA1 pyramidal neurons. Wu J, et al. **Neurosci Lett** 1997 Jan 31;222(2):115-8

Antimicrobial activity of some 13-alkyl substituted protoberberinium salts. Iwasa K, et al. **Planta Med** 1997 Jun;63(3):196-8

The effect of alpha 2 adrenoceptor blockers on aggressive behavior in mice: implications for the actions of adrenoceptor agents. Haller J, et al. **Psychopharmacology (Berl)** 1996 Aug;126(4):345-50

[Effects of (-) SPD and (-) THP on the firing of noradrenergic neurons in locus coeruleus] Wu JH, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):601-4 (Eng. Abstr.) **(Chi)**

METABOLISM

[Interaction of human serum albumin with berberine hydrochloride by fluorescence method] Tan Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Mar;21(3):175-7, 192 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Inhibition of thymocyte apoptosis by berberine. Miura N, et al. **Biochem Pharmacol** 1997 May 9;53(9):1315-22

Inhibitory effects of berberine on ATP-sensitive K+ channels in cardiac myocytes. Wang YX, et al. **Eur J Pharmacol** 1996 Dec 5;316(2-3):307-15

Ionic mechanism responsible for prolongation of cardiac action-potential duration by berberine. Wang YX, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):214-22

Inhibition of in-vitro lymphocyte transformation by the isoquinoline alkaloid berberine. Ckless K, et al. **J Pharm Pharmacol** 1995 Dec;47(12A):1029-31

Dose-dependent effects of berberine on cell cycle pause and apoptosis in Balb/c 3T3 cells. Yang IW, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):102-8

Antimicrobial activity of some 13-alkyl substituted protoberberinium salts. Iwasa K, et al. **Planta Med** 1997 Jun;63(3):196-8

BERBINES

Molecular modeling of interactions between tetrahydroprotoberberines and dopamine receptors. Tang Y, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):8-12

ANALYSIS

Use of silica gel with reversed-phase eluents for the separation and determination of alkaloids in Corydalis Yanhusuo W. T. Wang and its preparations. Yuan YF, et al. **Biomed Chromatogr** 1996 Jan-Feb;10(1):11-4

CHEMISTRY

Coralyne has a preference for intercalation between TA.T triples in intramolecular DNA triple helices. Moraru-Allen AA, et al. **Nucleic Acids Res** 1997 May 15;25(10):1890-6

PHARMACOLOGY

Coralyne and related compounds as mammalian topoisomerase I and topoisomerase II poisons. Makhey D, et al. **Bioorg Med Chem** 1996 Jun;4(6):781-91

Inhibition of topoisomerase I function by coralyne and 5,6-dihydrocoralyne. Wang LK, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):75-83

(-)-stepholidine vs 12-chloroscoulerine enantiomers on firing activity of substantia nigral dopamine neurons. Zhang XX, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):18-22

Antihypertensive effects of DL-tetrahydropalmatine: an active principle isolated from Corydalis. Lin MT, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):738-42

Inhibitory effects of (+/-)-tetrahydropalmatine on thyrotropin-stimulating hormone concentration in hyperthyroid rats. Hsieh MT, et al. **J Pharm Pharmacol** 1996 Sep;48(9):959-61

(+/-)-Govadine and (+/-)-THP, two tetrahydroprotoberberine alkaloids, as selective alpha 1-adrenoceptor antagonists in vascular smooth muscle cells. Ko FN, et al. **J Pharm Pharmacol** 1996 Jun; 48(6):629-34

Antimicrobial activity of some 13-alkyl substituted protoberberinium salts. Iwasa K, et al. **Planta Med** 1997 Jun;63(3):196-8

[Effects of (-) SPD and (-) THP on the firing of noradrenergic neurons in locus coeruleus] Wu JH, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):601-4 (Eng. Abstr.) **(Chi)**

BEREAVEMENT

see related
GRIEF

Psychosocial impact of bereavement after suicide and fatal traffic accident: a comparative two-country study. Cleiren MP, et al. **Acta Psychiatr Scand** 1996 Jul;94(1):37-44

Misclassification bias in estimates of bereavement effects. Korenman S, et al. **Am J Epidemiol** 1997 Jun 1; 145(11):995-1002

The posttreatment illness course of depression in bereaved elders. High relapse/recurrence rates. Pasternak RE, et al. **Am J Geriatr Psychiatry** 1997 Winter;5(1):54-9

Exploring the social construction of bereavement: perceptions of adjustment and recovery in bereaved men. Rubin SS, et al. **Am J Orthopsychiatry** 1997 Apr; 67(2):279-89

Parental bereavement: spiritual connections with deceased children. Sormanti M, et al. **Am J Orthopsychiatry** 1997 Jul;67(3):460-9

Complicated grief as a disorder distinct from bereavement-related depression and anxiety: a replication study. Prigerson HG, et al. **Am J Psychiatry** 1996 Nov; 153(11):1484-6

Comorbid postpartum depression and bereavement: a complicated case [clinical conference] Stowe ZN, et al. **Am J Psychiatry** 1997 Mar;154(3):418-22

Bereavement and late-life depression: grief and its complications in the elderly. Rozenzweig A, et al. **Annu Rev Med** 1997;48:421-8 (43 ref.)

The bereavement phenomenology questionnaire: a single factor only. Kissane DW, et al. **Aust N Z J Psychiatry** 1997 Jun;31(3):370-4

Estimating nonparticipation bias in a longitudinal study of bereavement. Boyle FM, et al. **Aust N Z J Public Health** 1996 Oct;20(5):483-7

Childhood bereavement. Bereavement is painful but does not necessarily make children ill [letter; comment] Harrington R. **BMJ** 1996 Sep 28;313(7060):822. Comment on: BMJ 1996 Jun 15;312(7045):1496.

Childhood bereavement. People with learning disabilities also need help in bereavement [letter; comment] Huline-Dickens S. **BMJ** 1996 Sep 28;313(7060):822. Comment on: BMJ 1996 Jun 15;312(7045):1496.

Lifetime episodes of dysphoria: gender, early childhood loss and personality. Roberts JE, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):195-208

Intervention for the bereaved: gender differences in the efficacy of two counselling programmes. Schut HA, et al. **Br J Clin Psychol** 1997 Feb;36 (Pt 1):63-72

The grieving adult and the general practitioner: a literature review in two parts (Part 2). Woof WR, et al. **Br J Gen Pract** 1997 Aug;47(421):509-14 (108 ref.)

The grieving adult and the general practitioner: a literature review in two parts (Part 1). Woof WR, et al. **Br J Gen Pract** 1997 Jul;47(420):443-8 (69 ref.)

Children and loss. Monroe B, et al. **Br J Hosp Med** 1996 Sep 18-Oct 1;56(6):260-4

The management of late fetal death: a guide to comprehensive care. Fox R, et al. **Br J Obstet Gynaecol** 1997 Jan; 104(1):4-10 (31 ref.)

The bereavement response: a cluster analysis. Middleton W, et al. **Br J Psychiatry** 1996 Aug;169(2):167-71

Parental suicide: a systems perspective. Heikes K. **Bull Menninger Clin** 1997 Summer;61(3):354-67

History of early loss among a group of suicide survivors. Séguin M, et al. **Crisis** 1995;16(3):121-5

Bereavement-related depression in the elderly. Is drug treatment justified? Rosenzweig AS, et al. **Drugs Aging** 1996 May;8(5):323-8 (26 ref.)

Joint workshop on perinatal bereavement Luxembourg 23-24 September 1995. European Midwives Liaison Committee, European College of Obstetrics and Gynaecology. **Eur J Obstet Gynecol Reprod Biol** 1996 May;66(1):89-92

Family bereavement and cultural diversity: a social developmental perspective. Shapiro ER. **Fam Process** 1996 Sep;35(3):313-32 (76 ref.)

Death on a psychiatric inpatient unit. Effect on a subgroup of schizophrenic patients. Trappler B, et al. **Gen Hosp Psychiatry** 1996 Jul;18(4):261-5

Grief recovery: helping those who've had to say goodbye. Anderson EG. **Geriatrics** 1997 Sep;52(9):103-4

Bereavement, grieving and psychological morbidity after first trimester spontaneous abortion: comparing expectant management with surgical evacuation. Nielsen S, et al. **Hum Reprod** 1996 Aug;11(8):1767-70

Locus of control perceptions among conjugally bereaved older adults: a pilot study. McKibbin CL, et al. **Int J Aging Hum Dev** 1997;44(1):37-45

The psychological symptoms of conjugal bereavement in elderly men over the first 13 months. Byrne GJ, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):241-51

Mu-Ghayeb: a culture-specific response to bereavement in Oman. al-Adawi S, et al. **Int J Soc Psychiatry** 1997 Summer;43(2):144-51

Facial expressions of emotion and the course of conjugal bereavement. Bonanno GA, et al. **J Abnorm Psychol** 1997 Feb;106(1):126-37

Recovering from the death of a spouse. Hyrkäs K, et al. **J Adv Nurs** 1997 Apr;25(4):775-9

What do I say to my surviving children? DeMaso DR, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep; 36(9):1299-302

Update on bereavement risk [letter] Schneiderman G, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Feb;35(2):132-3

Adjustment of children facing the death of a parent due to cancer. Siegel K, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr;35(4):442-50

Bereavement and neurosis. Hagman G. **J Am Acad Psychoanal** 1995 Winter;23(4):635-53 (33 ref.)

Psychological elements of attachment to pets and responses to pet loss. Stern M. **J Am Vet Med Assoc** 1996 Nov 15; 209(10):1707-11

Efficacy of an educational bereavement program for families of veterans with cancer. Abrahm JL, et al. **J Cancer Educ** 1995 Winter;10(4):207-12

A psychoeducational bereavement-support group for families provided in an outpatient cancer center. Goldstein J, et al. **J Cancer Educ** 1996 Winter;11(4):233-7

Stressful life events' effects on rheumatoid arthritis disease activity. Potter PT, et al. **J Consult Clin Psychol** 1997 Apr; 65(2):319-23

Long-term outcome of trauma in adults: the psychological impact of a fatal bus accident. Winje D. **J Consult Clin Psychol** 1996 Oct;64(5):1037-43

Loss-grief addiction model. Beechem MH, et al. **J Drug Educ** 1996;26(2):183-98

Mortality after death of spouse in relation to duration of bereavement in Finland. Martikainen P, et al. **J Epidemiol Community Health** 1996 Jun;50(3):264-8

Psychological well-being and ratings of psychiatric symptoms in bereaved Israeli adolescents: differential effect of war-versus accident-related bereavement. Bachar E, et al. **J Nerv Ment Dis** 1997 Jun;185(6):402-6

Psychological distress and bereavement. Middleton W, et al. **J Nerv Ment Dis** 1997 Jul;185(7):447-53

Reliability, construct validity, and subscale norms of the Brief Symptom Inventory when administered to bereaved parents. Johnson LC, et al. **J Nurs Meas** 1996 Winter; 4(2):117-27

Bereavement follow-up: what do palliative support teams actually do? Bromberg MH, et al. **J Palliat Care** 1996 Spring;12(1):12-7

Bereavement follow-up: an opportunity to extend nursing care. Ruden BM. **J Pediatr Oncol Nurs** 1996 Oct; 13(4):219-25

Stability and change in psychosocial resources during caregiving and bereavement in partners of men with AIDS. Park CL, et al. **J Pers** 1997 Jun;65(2):421-47

Introduction to the special section: use of bereavement narratives to predict well-being in gay men whose partners died of AIDS--four theoretical perspectives. Folkman S. **J Pers Soc Psychol** 1997 Apr;72(4):851-4

Rumination and psychological distress among bereaved partners. Nolen-Hoeksema S, et al. **J Pers Soc Psychol** 1997 Apr;72(4):855-62

Linguistic predictors of adaptive bereavement. Pennebaker JW, et al. **J Pers Soc Psychol** 1997 Apr;72(4):863-71

Appraisal and goal processes as predictors of psychological well-being in bereaved caregivers. Stein N, et al. **J Pers Soc Psychol** 1997 Apr;72(4):872-84

A scale for predicting quality of recovery following the death of a partner. Weiss RS, et al. **J Pers Soc Psychol** 1997 Apr;72(4):885-91

A piece of my mind. Neighbors. Beitel A. **JAMA** 1997 Jul 9;278(2):88

Major depressive disorder following miscarriage [letter; comment] Lynch DJ, et al. **JAMA** 1997 May 21; 277(19):1517. Comment on: JAMA 1997 Feb 5;277(5):383-8.

A response to bereavement [news] Mani MK. **Natl Med J India** 1997 Mar-Apr;10(2):90-1

Family coping and bereavement outcome. Kissane DW, et al. **Palliat Med** 1997 May;11(3):191-201

The challenge of evaluating a child bereavement programme. Stokes J, et al. **Palliat Med** 1997 May;11(3):179-90 (32 ref.)

Grief education and bereavement support in Japan. Deeken A. **Psychiatry Clin Neurosci** 1995 May;49 Suppl 1:S129-33 (6 ref.)

Psychological care for the bereaved. Hirayama M. **Psychiatry Clin Neurosci** 1995 May;49 Suppl 1:S135-7 (2 ref.)

Life and death from a psychiatric perspective. Introduction. Takahashi Y. **Psychiatry Clin Neurosci** 1995 May;49 Suppl 1:S53-4

Social rhythm stability following late-life spousal bereavement: associations with depression and sleep impairment. Brown LF, et al. **Psychiatry Res** 1996 May 17;62(2):161-9

The bereavement process in children of parents with AIDS. Aronson S. **Psychoanal Study Child** 1996;51:422-35

Measuring core bereavement phenomena. Burnett P, et al. **Psychol Med** 1997 Jan;27(1):49-57

Do couples grieve differently following infant loss? Hunfeld JA, et al. **Psychol Rep** 1996 Oct;79(2):407-10

Clinical and biological aspects of bereavement and

loss-induced depression: a reappraisal. Biondi M, et al. **Psychother Psychosom** 1996;65(5):229-45 (113 ref.)
Differences in bereavement reactions within couples following death of a child. Moriarty HJ, et al. **Res Nurs Health** 1996 Dec;19(6):461-9
Social support after the loss on an infant child: a long-term perspective. Thuen F. **Scand J Psychol** 1997 Jun; 38(2):103-10
The mental health impact of stillbirth, neonatal death or SIDS: prevalence and patterns of distress among mothers. Boyle FM, et al. **Soc Sci Med** 1996 Oct;43(8):1273-82
Predictors of family anxiety in the weeks before bereavement. Higginson I, et al. **Soc Sci Med** 1996 Dec;43(11):1621-5
Perinatal loss: considerations in social work practice. Mahan CK, et al. **Soc Work Health Care** 1997;24(3-4):141-52 (17 ref.)
The impact of adolescent suicide on siblings and parents: a longitudinal follow-up. Brent DA, et al. **Suicide Life Threat Behav** 1996 Fall;26(3):253-9
Patients' reactions to the suicide of a psychotherapist. Reynolds J, et al. **Suicide Life Threat Behav** 1997 Summer; 27(2):176-81
Suicide survivors groups: results of a survey. Rubey CT, et al. **Suicide Life Threat Behav** 1996 Winter;26(4):351-8
Parental bereavement after suicide and accident: a comparative study. Séguin M, et al. **Suicide Life Threat Behav** 1995 Winter;25(4):489-92
Suicidal ideation in elderly bereaved: the role of complicated grief. Szanto K, et al. **Suicide Life Threat Behav** 1997 Summer;27(2):194-207
Predictors of postbereavement depressive symptomatology among family caregivers of cancer patients. Kurtz ME, et al. **Support Care Cancer** 1997 Jan;5(1):53-60
Ectopic pregnancy loss during fertility management. Schaper AM, et al. **West J Nurs Res** 1996 Oct;18(5):503-17
[Heart and bereavement (editorial)] Bersay C. **Presse Med** 1996 Dec 21;25(40):2010-2 (Eng. Abstr.) **(Fre)**

BEREAVEMENT CARE see **HOSPICE CARE**

BERGER'S DISEASE see **GLOMERULONEPHRITIS, IGA**

BERIBERI

COMPLICATIONS

[Lactic acidosis in alcoholic patients: to think of beriberi (letter; comment)] Schleinitz N, et al. **Presse Med** 1996 Nov 30;25(37):1848. Comment on: Presse Med 1996 Jun 8;25(20):924-8. **(Fre)**
[Polyneuropathy deficiency among Xavante indians] Vieira Filho JP, et al. **Rev Assoc Med Bras** 1997 Jan-Mar; 43(1):82-8 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Beriberi unexpected. Ryan R, et al. **Psychosomatics** 1997 May-Jun;38(3):291-4

EPIDEMIOLOGY

Famine and schizophrenia: first-trimester malnutrition or second-trimester beriberi [editorial] Davis JO, et al. **Biol Psychiatry** 1996 Jul 1;40(1):1-3
Subclinical beriberi polyneuropathy in the low income group: an investigation with special tools on possible patients with suspected complaints. Djoenaidi W, et al. **Eur J Clin Nutr** 1996 Aug;50(8):549-55

ETIOLOGY

TPN-induced fulminant beriberi: a report on our experience and a review of the literature. Kitamura K, et al. **Surg Today** 1996;26(10):769-76 (45 ref.)
[An elderly patient with beriberi] Mon Y. **Nippon Ronen Igakkai Zasshi** 1997 May;34(5):428-30 (Eng. Abstr.) **(Jpn)**
[Neuropathic beriberi as a complication of surgery of morbid obesity] Muñoz-Farjas E, et al. **Rev Neurol** 1996 Apr; 24(128):456-8 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

[Shoshin beriberi. A rapidly curable hemodynamic disaster] Meurin P. **Presse Med** 1996 Jul 6-13;25(24):1115-8 (8 ref.) (Eng. Abstr.) **(Fre)**

BERNARD-SOULIER SYNDROME

[The Bernard-Soulier syndrome. A hereditary functional and structural disorder of blood platelets] Cieslar P, et al. **Cas Lek Cesk** 1997 Apr 2;136(7):210-4 (Eng. Abstr.) **(Cze)**

BLOOD

Defective thrombin-induced calcium changes and aggregation of Bernard-Soulier platelets are not associated with deficient moderate-affinity receptors. McNicol A, et al. **Arterioscler Thromb Vasc Biol** 1996 May;16(5):628-32

COMPLICATIONS

[Bernard-Soulier thrombocytopenia: clinical significance of a rare disorder] Gengenbacher D, et al. **Schweiz Med Wochenschr** 1996 Oct 26;126(43):1834-41 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Flow cytometric analysis of platelet surface glycoproteins in the diagnosis of Bernard-Soulier syndrome. Cohn RJ, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):43-50
Bernard-Soulier syndrome: a flow cytometric analysis of membrane GP-Ib expression. Yeşilipek MA, et al. **Turk J Pediatr** 1996 Jul-Sep;38(3):375-9

GENETICS

Bernard-Soulier syndrome Karlstad: Trp 498-->Stop mutation resulting in a truncated glycoprotein Ib alpha that contains part of the transmembranous domain. Holmberg L, et al. **Br J Haematol** 1997 Jul;98(1):57-63
A phenylalanine-55 to serine amino-acid substitution in the human glycoprotein IX leucine-rich repeat is associated with Bernard-Soulier syndrome. Noris P, et al. **Br J Haematol** 1997 May;97(2):312-20
Giant platelets, megakaryocytes and the expression of glycoprotein Ib-IX complexes. Nurden P, et al. **C R Acad Sci III** 1996 Aug;319(8):717-26
Molecular defects in the Bernard-Soulier syndrome: assessment of receptor genes, transcripts and proteins. Roth GJ. **C R Acad Sci III** 1996 Sep;319(9):819-26 (61 ref.)
Recurrent mutation Asn45-->Ser of glycoprotein IX in Bernard-Soulier syndrome [letter] Donnér M, et al. **Eur J Haematol** 1996 Aug;57(2):178-9 (8 ref.)
StyI polymorphism at nucleotide 1610 in the human platelet glycoprotein Ib alpha gene. Suzuki K, et al. **Jpn J Hum Genet** 1996 Dec;41(4):419-21
Biochemical and molecular basis of Bernard-Soulier syndrome: a review. de la Salle C, et al. **Nouv Rev Fr Hematol** 1995;37(4):215-22 (58 ref.)
Molecular and genetic analysis of two patients with Bernard-Soulier syndrome--identification of new mutations in glycoprotein Ib alpha gene. Kanaji T, et al. **Thromb Haemost** 1997 Jun;77(6):1055-61
Bernard-Soulier syndrome with severe bleeding: absent platelet glycoprotein Ib alpha due to a homozygous one-base deletion. Li C, et al. **Thromb Haemost** 1996 Nov; 76(5):670-4
A point mutation in glycoprotein IX coding sequence (Cys73 (TGT) to Tyr(TAT)) causes impaired surface expression of GPIb/IX/V complex in two families with Bernard-Soulier syndrome. Noda M, et al. **Thromb Haemost** 1996 Dec;76(6):874-8

HISTORY

[History of congenital thrombocytic hemorrhagic dystrophy] Bernard J. **C R Acad Sci III** 1996 Aug;319(8):727-32 (50 ref.) (Eng. Abstr.) **(Fre)**

METABOLISM

Impaired prothrombin consumption in Bernard-Soulier syndrome is corrected in vitro by human factor VIII. Bellucci S, et al. **Thromb Haemost** 1997 Feb;77(2):383-6

BERNARD'S SYNDROME see **HORNER'S SYNDROME**

BERNE VIRUS see **TOROVIRUS**

BERNOULLI DISTRIBUTION see **BINOMIAL DISTRIBUTION**

BERRIES see **FRUIT**

BERRY ANEURYSM see **CEREBRAL ANEURYSM**

BERTIELLIASIS see **CESTODE INFECTIONS**

BERYLLIOSIS

Conference on beryllium-related diseases. Research Triangle Park, North Carolina, November 8-10, 1994. Proceedings. **Environ Health Perspect** 1996 Oct;104 Suppl 5:933-98

BLOOD

Serum neopterin in chronic beryllium disease. Harris J, et al. **Am J Ind Med** 1997 Jul;32(1):21-6

DIAGNOSIS

Statistical methods for the blood beryllium lymphocyte proliferation test. Frome EL, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:957-68
Significance of the blood beryllium lymphocyte proliferation test. Newman LS. **Environ Health Perspect** 1996 Oct;104 Suppl 5:953-6 (28 ref.)
Chronic beryllium disease: diagnosis and management. Rossman MD. **Environ Health Perspect** 1996 Oct;104 Suppl 5:945-7 (21 ref.)
A moral history of the evolution of a caste of workers. Samuels SW. **Environ Health Perspect** 1996 Oct;104 Suppl 5:991-8
Rocky Flats Beryllium Health Surveillance. Stange AW, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:981-6
Comparison of in vivo and in vitro measures of beryllium sensitization. Bobka CA, et al. **J Occup Environ Med** 1997 Jun;39(6):540-7
Application of beryllium antibodies in risk assessment and health surveillance: two case studies. Clarke SM, et al. **Toxicol Ind Health** 1995 Jul-Aug;11(4):399-411
[Differential diagnosis of berylliosis/sarcoidosis in a dental technician] Müller-Quernheim J, et al. **Dtsch Med Wochenschr** 1996 Nov 22;121(47):1462-6 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Machining risk of beryllium disease and sensitization with median exposures below 2 micrograms/m3. Kreiss K, et al. **Am J Ind Med** 1996 Jul;30(1):16-25
Risks of beryllium disease related to work processes at a metal, alloy, and oxide production plant. Kreiss K, et al. **Occup Environ Med** 1997 Aug;54(8):605-12

ETIOLOGY

The natural history of beryllium sensitization and chronic beryllium disease. Newman LS, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:937-43 (29 ref.)

GENETICS

Interaction of genetic and exposure factors in the prevalence of berylliosis. Richeldi L, et al. **Am J Ind Med** 1997 Oct; 32(4):337-40

IMMUNOLOGY

Cytokine production by bronchoalveolar lavage cells in chronic beryllium disease. Tinkle SS, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:969-71
Beryllium induces IL-2 and IFN-gamma in berylliosis. Tinkle SS, et al. **J Immunol** 1997 Jan 1;158(1):518-26

MORTALITY

United Kingdom Beryllium Registry: mortality and autopsy study. Williams WJ. **Environ Health Perspect** 1996 Oct;104 Suppl 5:949-51 (27 ref.)

PATHOLOGY

Pulmonary epithelial cell injury and alveolar-capillary permeability in berylliosis. Inoue Y, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):109-15

PHYSIOPATHOLOGY

Observer variation and relationship of computed tomography to severity of beryllium disease. Daniloff EM, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2047-56

PREVENTION & CONTROL

Introduction to the conference on beryllium-related diseases. Jameson CW. **Environ Health Perspect** 1996 Oct;104 Suppl 5:935-6
Screening for chronic beryllium disease using beryllium specific lymphocyte proliferation testing. Markham TN. **Int Arch Occup Environ Health** 1996;68(6):405-7

RADIOGRAPHY

Observer variation and relationship of computed tomography to severity of beryllium disease. Daniloff EM, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2047-56

BERYLLIUM

Measurement of the 9Be(p,n) thick target spectrum for use in accelerator-based boron neutron capture therapy. Howard WB, et al. **Med Phys** 1996 Jul;23(7):1233-5

ADVERSE EFFECTS

Machining risk of beryllium disease and sensitization with median exposures below 2 micrograms/m3. Kreiss K, et al. **Am J Ind Med** 1996 Jul;30(1):16-25
Patch testing with beryllium alloy samples in guinea pigs. Zissu D, et al. **Contact Dermatitis** 1996 Mar;34(3):196-200
Conference on beryllium-related diseases. Research Triangle Park, North Carolina, November 8-10, 1994. Proceedings. **Environ Health Perspect** 1996 Oct;104 Suppl 5:933-98
A study on the beryllium lymphocyte transformation test and the beryllium levels in working environment. Yoshida T, et al. **Ind Health** 1997 Jul;35(3):374-9
Screening for chronic beryllium disease using beryllium specific lymphocyte proliferation testing. Markham TN. **Int Arch Occup Environ Health** 1996;68(6):405-7
Casting alloys [letter; comment] Newman LS. **J Am Dent Assoc** 1997 May;128(5):550. Comment on: J Am Dent Assoc 1997 Jan;128(1):37-45.
Is beryllium carcinogenic in humans? Beryllium Industry Scientific Advisory Committee [see comments] **J Occup Environ Med** 1997 Mar;39(3):205-8. Comment in: J Occup Environ Med 1997 Mar;39(3):203-4.
Comparison of in vivo and in vitro measures of beryllium sensitization. Bobka CA, et al. **J Occup Environ Med** 1997 Jun;39(6):540-7
Beryllium revisited [editorial; comment] Vainio H, et al. **J Occup Environ Med** 1997 Mar;39(3):203-4. Comment on: J Occup Environ Med 1997 Mar;39(3):205-8.
Risks of beryllium disease related to work processes at a metal, alloy, and oxide production plant. Kreiss K, et al. **Occup Environ Med** 1997 Aug;54(8):605-12

BERYLLIUM

ANALYSIS

Retrospective beryllium exposure assessment at the Rocky Flats Environmental Technology Site. Barnard AE, et al. **Am Ind Hyg Assoc J** 1996 Sep;57(9):804–8

IMMUNOLOGY

Application of beryllium antibodies in risk assessment and health surveillance: two case studies. Clarke SM, et al. **Toxicol Ind Health** 1995 Jul–Aug;11(4):399–411

METABOLISM

Equilibrium and kinetic study of the conformational transition toward the active state of p21Ha–ras, induced by the binding of BeF3– to the GDP–bound state, in the absence of GTPase–activating proteins. Díaz JF, et al. **J Biol Chem** 1997 Sep 12;272(37):23138–43

Beryllium fluoride and phalloidin restore polymerizability of a mutant yeast actin (V266G,L267G) with severely decreased hydrophobicity in a subdomain 3/4 loop. Kuang B, et al. **J Biol Chem** 1997 Jan 10;272(2):1237–47

Differential scanning calorimetric study of the complexes of modified myosin subfragment 1 with ADP and vanadate or beryllium fluoride. Golitsina NL, et al. **J Muscle Res Cell Motil** 1996 Aug;17(4):475–85

PHARMACOLOGY

Inhibition of P–glycoprotein ATPase activity by beryllium fluoride. Sankaran B, et al. **Biochemistry** 1997 Jun 3; 36(22):6847–53

[Changes in porphyrin metabolism of mice given beryllium and/or zinc] Sakaguchi T, et al. **Sangyo Eiseigaku Zasshi** 1997 May;39(3):79–85 (Eng. Abstr.) **(Jpn)**

POISONING see BERYLLIOSIS

THERAPEUTIC USE

Radiosensitivity variations in human tumor cell lines exposed in vitro to p(66)/Be neutrons or 60Co gamma–rays. Slabbert JP, et al. **Strahlenther Onkol** 1996 Oct; 172(10):567–72

TOXICITY

Animal models of beryllium–induced lung disease. Finch GL, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:973–9

Introduction to the conference on beryllium–related diseases. Jameson CW. **Environ Health Perspect** 1996 Oct;104 Suppl 5:935–6

Significance of the blood beryllium lymphocyte proliferation test. Newman LS. **Environ Health Perspect** 1996 Oct;104 Suppl 5:953–6 (28 ref.)

The natural history of beryllium sensitization and chronic beryllium disease. Newman LS, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:937–43 (29 ref.)

Rocky Flats Beryllium Health Surveillance. Stange AW, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:981–6

Beryllium induces IL–2 and IFN–gamma in berylliosis. Tinkle SS, et al. **J Immunol** 1997 Jan 1;158(1):518–26

Effect of beryllium chloride on porphyrin metabolism in pregnant mice administered by subcutaneous injection. Sakaguchi S, et al. **J Toxicol Environ Health** 1997 Apr 11;50(5):507–17

Effect of beryllium on delta–aminolevulinic acid dehydratase and porphobilinogen deaminase in pregnant mice. Sakaguchi S, et al. **Pharmacol Toxicol** 1996 Oct;79(4):214–6

Toxicological effects of beryllium on platelets and vascular endothelium. Togna G, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):262–7

Application of beryllium antibodies in risk assessment and health surveillance: two case studies. Clarke SM, et al. **Toxicol Ind Health** 1995 Jul–Aug;11(4):399–411

Chronic granulomatous pneumonia and lymphocytic responses induced by inhaled beryllium metal in A/J and C3H/HeJ mice. Nikula KJ, et al. **Toxicol Pathol** 1997 Jan–Feb;25(1):2–12

BERYLLIUM DISEASE see **BERYLLIOSIS**

BESNIER–BOECK DISEASE see **SARCOIDOSIS**

BESNOITIA see **EIMERIINA**

BESNOITIASIS see **COCCIDIOSIS**

BETA–N–ACETYLHEXOSAMINIDASE

ANALYSIS

Distribution of active alpha– and beta–subunits of beta–N–acetylhexosaminidase as a function of leukaemic cell types. Martino S, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):5–15

Rate assay of N–acetyl–beta–D–hexosaminidase with 4–nitrophenyl N–acetyl–beta–D–glucosaminide as an artificial substrate. Shibata H, et al. **Clin Chim Acta** 1996 Jul 15;251(1):53–64

BLOOD

beta–Hexosaminidase isoenzymes A and B in middle–aged and elderly subjects: determinants of plasma levels and relation to vascular disease. Hultberg B, et al. **Ann Clin Biochem** 1996 Sep;33 (Pt 5):432–7

Plasma beta–hexosaminidase isoenzymes A and B in patients with cerebral infarction. Hultberg B, et al. **Clin Chim Acta** 1996 Jan 15;244(1):35–44

Assay of serum/plasma beta–N–acetylhexosaminidase isoenzymes by heat inactivation using a continuous spectrophotometric method adapted to a centrifugal analyzer. Pérez LF, et al. **Eur J Clin Chem Clin Biochem** 1997 Jun;35(6):445–52

Plasma beta–hexosaminidase isoenzymes A and B exhibit different relations to blood glucose levels in a population of Type 1 diabetic patients. Hultberg B, et al. **Scand J Clin Lab Invest** 1995 Dec;55(8):723–8

CHEMISTRY

Identification of candidate active site residues in lysosomal beta–hexosaminidase A. Fernandes MJ, et al. **J Biol Chem** 1997 Jan 10;272(2):814–20

DEFICIENCY

Benign HEXA mutations, C739T(R247W) and C745T(R249W), cause beta–hexosaminidase A pseudodeficiency by reducing the alpha–subunit protein levels. Cao Z, et al. **J Biol Chem** 1997 Jun 6; 272(23):14975–82

Progressive cerebellar ataxia, proximal neurogenic weakness and ocular motor disturbances: hexosaminidase A deficiency with late clinical onset in four siblings. Hund E, et al. **J Neurol Sci** 1997 Jan;145(1):25–31

Mice deficient in all forms of lysosomal beta–hexosaminidase show mucopolysaccharidosis–like pathology. Suzuki K, et al. **J Neuropathol Exp Neurol** 1997 Jun;56(6):693–703

DRUG EFFECTS

Cholinergic stimulation of lacrimal acinar cells promotes redistribution of membrane–associated kinesin and the secretory protein, beta–hexosaminidase, and increases kinesin motor activity. Hamm–Alvarez SF, et al. **Exp Eye Res** 1997 Feb;64(2):141–56

Effects of malathion metabolites on degranulation of and mediator release by human and rat basophilic cells. Xiong S, et al. **J Toxicol Environ Health** 1997 Jun 6;51(2):159–75

GENETICS

Novel mutations and DNA–based screening in non–Jewish carriers of Tay–Sachs disease. Akerman BR, et al. **Am J Hum Genet** 1997 May;60(5):1099–106

Juvenile–onset spinal muscular atrophy caused by compound heterozygosity for mutations in the HEXA gene. Navon R, et al. **Ann Neurol** 1997 May;41(5):631–8

Significance of two point mutations present in each HEXB allele of patients with adult GM2 gangliosidosis (Sandhoff disease) homozygosity for the Ile207—>Val substitution is not associated with a clinical or biochemical phenotype. Redonnet–Vernhet I, et al. **Biochim Biophys Acta** 1996 Nov 15;1317(2):127–33

A chronic GM2 gangliosidosis variant with a HEXA splicing defect: quantitation of HEXA mRNAs in normal and mutant fibroblasts. Fernandes MJ, et al. **Eur J Hum Genet** 1997 May–Jun;5(3):129–36

Restoration of hexosaminidase A activity in human Tay–Sachs fibroblasts via adenoviral vector–mediated gene transfer. Akli S, et al. **Gene Ther** 1996 Sep;3(9):769–74

Novel HEXA mutation in a Bedouin Tay–Sachs patient associated with exon skipping and reduced transcript level. Drucker L, et al. **Hum Mutat** 1997;9(3):260–4

Tay–Sachs disease–causing mutations and neutral polymorphisms in the Hex A gene. Myerowitz R. **Hum Mutat** 1997;9(3):195–208 (66 ref.)

Homozygosity for the common Ashkenazi jewish Tay–Sachs +1 IVS–12 splice–junction mutation: first report. Strasberg P, et al. **Hum Mutat** 1997;10(1):82–3

Benign HEXA mutations, C739T(R247W) and C745T(R249W), cause beta–hexosaminidase A pseudodeficiency by reducing the alpha–subunit protein levels. Cao Z, et al. **J Biol Chem** 1997 Jun 6; 272(23):14975–82

Heterozygosity for Tay–Sachs disease in non–Jewish Americans with ancestry from Ireland or Great Britain. van Bael M, et al. **J Med Genet** 1996 Oct;33(10):829–32

Disruption of murine Hexa gene leads to enzymatic deficiency and to neuronal lysosomal storage, similar to that observed in Tay–Sachs disease. Cohen–Tannoudji M, et al. **Mamm Genome** 1995 Dec;6(12):844–9

beta–Hexosaminidase immunolocalization and alpha– and beta–subunit gene expression in the rat testis and epididymis. Hermo L, et al. **Mol Reprod Dev** 1997 Mar; 46(3):227–42

Mice lacking both subunits of lysosomal beta–hexosaminidase display gangliosidosis and mucopolysaccharidosis. Sango K, et al. **Nat Genet** 1996 Nov;14(3):348–52

Matrix–assisted laser desorption/ionization time–of–flight mass spectrometry as a rapid screening method to detect mutations causing Tay–Sachs disease. Srinivasan JR, et al. **Rapid Commun Mass Spectrom** 1997;11(10):1144–50

METABOLISM

Unusual thermolability properties of beta–hexosaminidase: studies of enzyme from cultured cells and clinical implications. Prence EM, et al. **Am J Med Genet** 1996 Nov 11;65(4):320–4

Enzymic synthesis of 3'–O– and 6'–O–N–acetylglucosaminyl–N–acetyllactosaminide glycosides catalyzed by beta–N–acetyl–D–hexosaminidase from Nocardia orientalis. Murata T, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):326–34

Formation of a ternary complex between GM2 activator protein, GM2 ganglioside and hexosaminidase A. Yadao F, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):45–52

Quantification and localization of N–acetyl–beta–D–hexosaminidase in the adult rat testis and epididymis. Hall JC, et al. **Biol Reprod** 1996 Apr; 54(4):914–29

N–acetylglucosamine kinase and N–acetylglucosamine 6–phosphate deacetylase in normal human erythrocytes and Plasmodium falciparum. Weidanz JA, et al. **Br J Haematol** 1996 Dec;95(4):645–53

Chemopreventive agents–induced regression of azoxymethane–induced aberrant crypt foci with the recovery of hexosaminidase activity. Tao L, et al. **Carcinogenesis** 1997 Jul;18(7):1415–8

Evidence for the involvement of Glu–355 in the catalytic action of human beta–hexosaminidase B. Pennybacker M, et al. **J Biol Chem** 1997 Mar 21;272(12):8002–6

Assessment of variability in some lysosomal and soluble enzyme activities in corneal epithelium from slaughterhouse bovine eyes. Doughty MJ. **Ophthalmic Res** 1996;28(3):141–6

Influence of cell differentiation and protein kinase C activation on sub–cellular distribution of beta–N–acetylhexosaminidases of HL 60 cells. Emiliani C, et al. **Physiol Chem Phys Med NMR** 1995;27(4):369–76 (26 ref.)

PHARMACOLOGY

Contribution of PKC to beta–hexosaminidase–induced airway smooth muscle proliferation. Lew DB, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L639–43

BETA–ADRENERGIC BLOCKING AGENTS see **ADRENERGIC BETA–ANTAGONISTS**

BETA–ADRENERGIC RECEPTOR AGONISTS see **ADRENERGIC BETA–AGONISTS**

BETA–ADRENERGIC RECEPTOR BLOCKADERS see **ADRENERGIC BETA–ANTAGONISTS**

BETA–ADRENERGIC RECEPTORS see **RECEPTORS, ADRENERGIC, BETA**

BETA–1 ADRENERGIC RECEPTORS see **RECEPTORS, ADRENERGIC, BETA–1**

BETA–2 ADRENERGIC RECEPTORS see **RECEPTORS, ADRENERGIC, BETA–2**

BETA–ALANINE

ANALOGS & DERIVATIVES

Design, synthesis, and in vitro activities of benzamide–core glycoprotein IIb/IIIa antagonists: 2,3–diaminopropionic acid derivatives as surrogates of aspartic acid. Xue CB, et al. **Bioorg Med Chem** 1997 Apr;5(4):693–705

IL–1 modifies system A transport activity in human rheumatoid synovial cells. Le Maire V, et al. **Cell Biol Int** 1997 Jul;21(7):455–60

Contact allergy to disodium cocoamphodipropionate. de Groot AC, et al. **Contact Dermatitis** 1996 Oct;35(4):248–9

In vitro and in vivo evaluations of the metabolism, pharmacokinetics, and bioavailability of ester prodrugs of L–767,679, a potent fibrinogen receptor antagonist: an approach for the selection of a prodrug candidate. Prueksaritanont T, et al. **Drug Metab Dispos** 1997 Aug; 25(8):978–84

Isolation and identification of metabolites of leukotriene A4 hydrolase inhibitor SC–57461 in rats. Yuan JH, et al. **Drug Metab Dispos** 1996 Oct;24(10):1124–33

The mechanism of high–yielding chiral syntheses catalysed by wild–type and mutant forms of aspartate aminotransferase. Contestabile R, et al. **Eur J Biochem** 1996 Aug 15;240(1):150–5

Multipin solid–phase synthesis of acyl 2, 3–diaminopropionic acid oligomers. Valerio RM, et al. **Int J Pept Protein Res** 1996 May;47(5):414–8

Simultaneous gas chromatographic–mass spectrophotometric determination of alpha–fluoro–beta–alanine and 5–fluorouracil in plasma. Anderson D, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):87–93

Plant–derived amino acids increase hippocampal BDNF, NGF, c–fos and hsp70 mRNAs. Andersson H, et al. **Neuroreport** 1997 May 27;8(8):1813–7

METABOLISM

Adaptive regulation of taurine and beta–alanine uptake in a human kidney cell line from the proximal tubule. Jessen

H, et al. **Biochim Biophys Acta** 1997 Apr 26;1325(2):309–17
Brain–to–blood active transport of beta–alanine across the blood–brain barrier. Komura J, et al. **FEBS Lett** 1997 Jan 2;400(1):131–5

PHARMACOLOGY

Depletion of feline taurine levels by beta–alanine and dietary taurine restriction. Sturman JA, et al.
Adv Exp Med Biol 1996;403:19–36

TOXICITY

Dietary beta–alanine results in taurine depletion and cerebellar damage in adult cats. Lu P, et al.
J Neurosci Res 1996 Jan 1;43(1):112–9

BETA–ALANINE KETOGLUTARATE AMINOTRANSFERASE see **AMINOBUTYRATE AMINOTRANSFERASE**

BETA–AMYLASE

BIOSYNTHESIS

Induction and carbon catabolite repression in the biosynthesis of beta–amylase by Bacillus megaterium B6. Ray RR, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):223–30
Phytohormone–regulated beta–amylase gene expression in rice. Wang SM, et al. **Plant Mol Biol** 1996 Aug;31(5):975–82
Negative regulation in the expression of a sugar–inducible gene in Arabidopsis thaliana. A recessive mutation causing enhanced expression of a gene for beta–amylase. Mita S, et al. **Plant Physiol** 1997 Jun;114(2):575–82

CHEMISTRY

Functional analysis of Glu380 and Leu383 of soybean beta–amylase. A proposed action mechanism. Totsuka A, et al. **Eur J Biochem** 1996 Sep 15;240(3):655–9

GENETICS

Mutants of Arabidopsis thaliana with pleiotropic effects on the expression of the gene for beta–amylase and on the accumulation of anthocyanin that are inducible by sugars. Mita S, et al. **Plant J** 1997 Apr;11(4):841–51
Characterization of a maize beta–amylase cDNA clone and its expression during seed germination. Wang SM, et al. **Plant Physiol** 1997 Feb;113(2):403–9
Evolution of beta–amylase: patterns of variation and conservation in subfamily sequences in relation to parsimony mechanisms. Pujadas G, et al. **Proteins** 1996 Aug;25(4):456–72

ISOLATION & PURIFICATION

Detection, purification and partial characterization of beta–amylase from trophozoites of Entamoeba invadens. Serafimova F, et al. **Mol Biochem Parasitol** 1996 Dec 20; 83(2):175–81

METABOLISM

Microbial beta–amylases: biosynthesis, characteristics, and industrial applications. Ray RR, et al.
Crit Rev Microbiol 1996;22(3):181–99 (102 ref.)
Functional analysis of Glu380 and Leu383 of soybean beta–amylase. A proposed action mechanism. Totsuka A, et al. **Eur J Biochem** 1996 Sep 15;240(3):655–9
Detection, purification and partial characterization of beta–amylase from trophozoites of Entamoeba invadens. Serafimova F, et al. **Mol Biochem Parasitol** 1996 Dec 20; 83(2):175–81

BETA–AMYLOID PROTEIN see **AMYLOID BETA–PROTEIN**

BETA–AMYLOID PROTEIN PRECURSOR see **AMYLOID BETA–PROTEIN PRECURSOR**

BETA,BETA–DIMETHYLCYSTEINE see **PENICILLAMINE**

BETA–BLOCKERS, ADRENERGIC see **ADRENERGIC BETA–ANTAGONISTS**

BETA CAROTENE

Repeated measurements of vegetables, fruits, beta–carotene, and vitamins C and E in relation to lung cancer. The Zutphen Study. Ocké MC, et al. **Am J Epidemiol** 1997 Feb 15;145(4):358–65
Carrot addiction. Kaplan R. **Aust N Z J Psychiatry** 1996 Oct;30(5):698–700 (8 ref.)
Dietary vitamin C, beta–carotene and 30–year risk of stroke: results from the Western Electric Study. Daviglus ML, et al. **Neuroepidemiology** 1997;16(2):69–77
Beta–carotene, vitamin C, and vitamin E: the protective micronutrients. Charleux JL. **Nutr Rev** 1996 Nov;54(11 Pt 2):S109–14 (28 ref.)
[Study of methods of beta–carotene stabilization in powder concentrates for preparation of beverages] Berketova LV, et al. **Vopr Pitan** 1997;(2):10–1 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Beta–carotene in HIV infection: an extended evaluation. Coodley GO, et al. **AIDS** 1996 Aug;10(9):967–73
Effects of supplemental beta–carotene, cigarette smoking, and alcohol consumption on serum carotenoids in the Alpha–Tocopherol, Beta–Carotene Cancer Prevention Study. Albanes D, et al. **Am J Clin Nutr** 1997 Aug; 66(2):366–72
Effects of 4 y of oral supplementation with beta–carotene on serum concentrations of retinol, tocopherol, and five carotenoids. Nierenberg DW, et al. **Am J Clin Nutr** 1997 Aug;66(2):315–9
beta–Carotene, malondialdehyde, and cystic fibrosis [letter; comment] Winklhofer–Roob BM. **Am J Clin Nutr** 1997 Feb;65(2):575–7. Comment on: Am J Clin Nutr 1996 Jul;64(1):87–93.
Modulation of natural killer cell functional activity in athymic mice by beta–carotene, oestrone and their association. Fernandes–Carlos T, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2523–7
Vitamins C and E, retinol, beta–carotene and dietary fibre in relation to breast cancer risk: a prospective cohort study. Verhoeven DT, et al. **Br J Cancer** 1997;75(1):149–55
Correspondence re: A. Manetta et al., Beta–carotene treatment of cervical intraepithelial neoplasia: a phase II study. Cancer Epidemiol., Biomarkers & Prev., 5: 929–932, 1996 [letter] Torné A, et al.
Cancer Epidemiol Biomarkers Prev 1997 Aug;6(8):655–6
Dietary beta–carotene, vitamin C, and risk of prostate cancer: results from the Western Electric Study [see comments] Daviglus ML, et al. **Epidemiology** 1996 Sep;7(5):472–7. Comment in: Epidemiology 1997 Jan;8(1):114–5.
Antioxidant vitamins in the prevention of cardiovascular disease. The epidemiological evidence. Price JE, et al.
Eur Heart J 1997 May;18(5):719–27 (59 ref.)
Quantitation of vitamin E and a carotenoid pigment in cataractous human lenses, and the effect of a dietary supplement. Bates CJ, et al. **Int J Vitam Nutr Res** 1996; 66(4):316–21
Blood antioxidants changes in young women following beta–carotene depletion and repletion. Omaye ST, et al. **J Am Coll Nutr** 1996 Oct;15(5):469–74
Dietary intake and plasma concentrations of vitamin E, vitamin C, and beta carotene in patients with coronary artery disease. Mandel CH, et al. **J Am Diet Assoc** 1997 Jun;97(6):655–7
Reproducibility of erythrocyte polyamine measurements and correlation with plasma micronutrients in an antioxidant vitamin intervention study [published erratum appears in J Cell Biochem 1996 Oct;63(1):123] Wang W, et al.
J Cell Biochem 1996 Jul;62(1):19–26
Risk factors for lung cancer and for intervention effects in CARET, the Beta–Carotene and Retinol Efficacy Trial [see comments] Omenn GS, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1550–9. Comment in: J Natl Cancer Inst 1996 Nov 6;88(21):1513–5. Comment in: J Natl Cancer Inst 1997 Feb 19;89(4):325–6.
Dietary manipulation of plasma carotenoid concentrations of squirrel monkeys (Saimiri sciureus). Snodderly DM, et al. **J Nutr** 1997 Jan;127(1):122–9
Beta–carotene supplementation in cystic fibrosis [letter; comment] Winklhofer–Roob BM. **J Pediatr** 1996 Jul; 129(1):181–2. Comment on: J Pediatr 1995 Sep;127(3):491–4.
Randomised trial of alpha–tocopherol and beta–carotene supplements on incidence of major coronary events in men with previous myocardial infraction [see comments] Rapola JM, et al. **Lancet** 1997 Jun 14;349(9067):1715–20. Comment in: Lancet 1997 Jun 14;349(9067):1710.
Antioxidants and ischaemic heart disease [letter] Shahar E. **Lancet** 1997 Aug 30;350(9078):667; discussion 668
Antioxidants and ischaemic heart disease [letter] Violi F, et al. **Lancet** 1997 Aug 30;350(9078):667–8
Retinoid and carotenoid angiogenesis: a possible explanation for enhanced oral carcinogenesis. Schwartz JL, et al.
Nutr Cancer 1997;27(2):192–9
beta–Carotene and the carotenoids: beyond the intervention trials. Erdman JW Jr, et al. **Nutr Rev** 1996 Jun;54(6):185–8 (31 ref.)
Clinical teratology counseling and consultation report: high dose beta–carotene use during early pregnancy. Polifka JE, et al. **Teratology** 1996 Aug;54(2):103–7
[Effects of vitamin supplements (news)] Hercberg S, et al. **Rev Epidemiol Sante Publique** 1996 Oct;44(5):476–7 **(Fre)**
[Current approaches to using beta–carotenoids in chronic hepatitis in flight personnel] Preobrazhenskii VN, et al. **Aviakosm Ekolog Med** 1996;30(3):45–6 (Eng. Abstr.) **(Rus)**
[The effect of vitamin– and beta–carotene–enriched products on the vitamin A allowance and the concentration of different carotenoids of the blood serum in victims of the accident at the Chernobyl Atomic Electric Power Station] Iakushina LM, et al. **Vopr Pitan** 1996;(1):12–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Dietary beta–carotene, vitamin C, and risks of prostate cancer [letter; comment] Singh PN. **Epidemiology** 1997 Jan; 8(1):114–5. Comment on: Epidemiology 1996 Sep;7(5):472–7.
Re: Risk factors for lung cancer and for intervention effects in CARET, the Beta–Carotene and Retinol Efficacy trial [letter; comment] Challem JJ. **J Natl Cancer Inst** 1997 Feb 19;89(4):325–6. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1550–9.
Beta–carotene and lung cancer promotion in heavy smokers––a plausible relationship? [editorial; comment] Mayne ST, et al. **J Natl Cancer Inst** 1996 Nov 6; 88(21):1513–5. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1550–9. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1560–70.
beta–Carotene and the risk of lung cancer [letter] Pastorino U. **J Natl Cancer Inst** 1997 Mar 19;89(6):456–7; discussion 457–8
Antioxidants and ischaemic heart disease [letter] Leo MA, et al. **Lancet** 1997 Aug 30;350(9078):667; discussion 668
Beta–carotene increases lung cancer incidence in cigarette smokers. De Luca LM, et al. **Nutr Rev** 1996 Jun; 54(6):178–80 (17 ref.)
Clinical teratology counseling and consultation report: high dose beta–carotene use during early pregnancy. Polifka JE, et al. **Teratology** 1996 Aug;54(2):103–7

ANALOGS & DERIVATIVES

Carotenoid–dependent oligomerization of the major chlorophyll a/b light harvesting complex of photosystem II of plants. Ruban AV, et al. **Biochemistry** 1997 Jun 24; 36(25):7855–9
13C Magic angle spinning NMR analysis and quantum chemical modeling of the bathochromic shift of astaxanthin in alpha–crustacyanin, the blue carotenoprotein complex in the carapace of the lobster Homarus gammarus. Weesie RJ, et al. **Biochemistry** 1997 Jun 17;36(24):7288–96
Zeaxanthin (dihydroxy–beta–carotene) but not beta–carotene rigidifies lipid membranes: a 1H–NMR study of carotenoid–egg phosphatidylcholine liposomes. Gabrielska J, et al. **Biochim Biophys Acta** 1996 Dec 4;1285(2):167–74
Plasma carotenoids in German children and adolescents. Lenhartz H, et al. **Eur J Pediatr** 1997 Jan;156(1):71–3
Distribution of lutein and zeaxanthin stereoisomers in the human retina. Bone RA, et al. **Exp Eye Res** 1997 Feb; 64(2):211–8
The carotenoids beta–carotene, canthaxanthin and zeaxanthin inhibit macrophage–mediated LDL oxidation. Carpenter KL, et al. **FEBS Lett** 1997 Jan 20;401(2–3):262–6
Biosynthesis of ketocarotenoids in transgenic cyanobacteria expressing the algal gene for beta–C–4–oxygenase, crtO. Harker M, et al. **FEBS Lett** 1997 Mar 10;404(2–3):129–34
Isolation and characterization of the carotenoid biosynthesis genes of Flavobacterium sp. strain R1534. Pasamontes L, et al. **Gene** 1997 Jan 31;185(1):35–41
Preferential increase in chylomicron levels of the xanthophylls lutein and zeaxanthin compared to beta–carotene in the human. Gärtner C, et al.
Int J Vitam Nutr Res 1996;66(2):119–25
Retinal tubulin binds macular carotenoids. Bernstein PS, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):167–75
Identification of lutein and zeaxanthin oxidation products in human and monkey retinas. Khachik F, et al.
Invest Ophthalmol Vis Sci 1997 Aug;38(9):1802–11
Rapid liquid chromatographic method to distinguish wild salmon from aquacultured salmon fed synthetic astaxanthin. Turujman SA, et al. **J AOAC Int** 1997 May–Jun; 80(3):622–32
In vitro characterization of astaxanthin biosynthetic enzymes. Fraser PD, et al. **J Biol Chem** 1997 Mar 7;272(10):6128–35
Dietary manipulation of plasma carotenoid concentrations of squirrel monkeys (Saimiri sciureus). Snodderly DM, et al. **J Nutr** 1997 Jan;127(1):122–9
Plasma levels of retinol, retinol–binding protein, all–trans beta–carotene and cryptoxanthin in low birth weight infants. Moji H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):595–606
Inhibition of beta–carotene and astaxanthin of NADPH–dependent microsomal phospholipid peroxidation. Nakagawa K, et al.
J Nutr Sci Vitaminol (Tokyo) 1997 Jun;43(3):345–55
Photosynthesis, chlorophyll fluorescence, light–harvesting system and photoinhibition resistance of a zeaxanthin–accumulating mutant of Arabidopsis thaliana. Tardy F, et al. **J Photochem Photobiol B** 1996 Jun; 34(1):87–94
Density of the human crystalline lens is related to the macular pigment carotenoids, lutein and zeaxanthin. Hammond BR Jr, et al. **Optom Vis Sci** 1997 Jul;74(7):499–504
Specific oxidative cleavage of carotenoids by VP14 of maize. Schwartz SH, et al. **Science** 1997 Jun 20;276(5320):1872–4
[Astaxanthine–induced inhibition of oxidation of apolipoprotein B–containing lipoproteins in human blood] Kukharchuk VV, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):285–8 **(Rus)**
[Bioassay of rainbow trout (Oncorhynchus mykiss) pigmentation using ancho chili (Capsicum annuum) extracts] Carter JV, et al. **Arch Latinoam Nutr** 1994 Dec; 44(4):252–5 (Eng. Abstr.) **(Spa)**

ANALYSIS

Consumption pattern of carotene rich foods and development of a year calendar. Devadas Rajammal P, et al.
Biomed Environ Sci 1996 Sep;9(2–3):213–22
Analysis of polyethylene wear debris using micro–Raman

spectroscopy: a report on the presence of beta-carotene. Hahn DW, et al. **J Biomed Mater Res** 1997 Apr;35(1):31-7

Supercritical fluid extraction and reversed-phase liquid chromatography methods for vitamin A and beta-carotene heterogeneous distribution of vitamin A in the liver. Burri BJ, et al. **J Chromatogr A** 1997 Feb 21;762(1-2):201-6

Tocopherols, retinol, beta-carotene and fatty acids in fat globule membrane and fat globule core in cows' milk. Jensen SK, et al. **J Dairy Res** 1996 Nov;63(4):565-74

The fate of beta-carotene in processed leaves of fluted pumpkin (Telfairia occidentalis hook. f.): a popular vegetable in Nigerian diet. Badifu GI, et al. Plant **Foods Hum Nutr** 1995 Sep;48(2):141-7

Beta-carotene content of postharvest orange-fleshed muskmelon fruit: effect of cultivar, growing location and fruit size. Lester GE, et al. **Plant Foods Hum Nutr** 1996 Apr;49(3):191-7

Red palm oil as a source of beta-carotene for combating vitamin A deficiency. Manorama R, et al. **Plant Foods Hum Nutr** 1996 Jan;49(1):75-82

BIOSYNTHESIS

The tentative (alpha/beta)8-barrel in the pathway of beta-carotene biosynthesis: lycopene cyclase has an amino acid sequence similar to that of xylose isomerase [letter] Janeček S. **Biochem J** 1996 Nov 1;319 (Pt 3):1005-6

The effect of light on the biosynthesis of beta-carotene and superoxide dismutase activity in the photosynthetic alga Gonyaulax polyedra. Hollnagel HC, et al. **Braz J Med Biol Res** 1996 Jan;29(1):105-10

BLOOD

Oxidative modifications of blood serum in humans with coronary artery disease. Bakalova R, et al. **Acta Physiol Pharmacol Bulg** 1995;21(4):81-5

Serum beta-carotene and vitamin C as biomarkers of vegetable and fruit intakes in a community-based sample of French adults. Drewnowski A, et al. **Am J Clin Nutr** 1997 Jun;65(6):1796-802

Gastric acidity influences the blood response to a beta-carotene dose in humans [see comments] Tang G, et al. **Am J Clin Nutr** 1996 Oct;64(4):622-6. Comment in: Am J Clin Nutr 1997 Sep;66(3):707.

Serum vitamin A, vitamin E, and beta-carotene levels in preeclamptic women in northern nigeria. Ziari SA, et al. **Am J Perinatol** 1996 Jul;13(5):287-91

The protective effect of beta-carotene and retinol on ventilatory function in an asbestos-exposed cohort. Chuwers P, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1066-71

Serum concentrations of alpha tocopherol, beta carotene, and retinol preceding the diagnosis of rheumatoid arthritis and systemic lupus erythematosus. Comstock GW, et al. **Ann Rheum Dis** 1997 May;56(5):323-5

Content of beta-carotene in blood serum of human papillomavirus infected women with cervical dysplasias. Kwaśniewska A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5-6):309-13

Vitamin A and carotenoid status in rural China. Wang G, et al. **Br J Nutr** 1996 Dec;76(6):809-20

Serum beta-carotene level, arsenic methylation capability, and incidence of skin cancer. Hsueh YM, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):589-96

Risk of squamous cell carcinoma of the skin in relation to plasma selenium, alpha-tocopherol, beta-carotene, and retinol: a nested case-control study. Karagas MR, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jan;6(1):25-9

Cytotoxic effect of beta-carotene in vitro is dependent on serum concentration and source. Peram V, et al. **Cancer Lett** 1996 Aug 23;106(1):133-8

Effect of extreme fish consumption on dietary and plasma antioxidant levels and fatty acid composition. Anttolainen M, et al. **Eur J Clin Nutr** 1996 Nov;50(11):741-6

Use of oral contraceptives and serum beta-carotene. Berg G, et al. **Eur J Clin Nutr** 1997 Mar;51(3):181-7

Plasma carotenoids in German children and adolescents. Lenhartz H, et al. **Eur J Pediatr** 1997 Jan;156(1):71-3

alpha-Tocopherol and beta-carotene serum levels in post-menopausal women treated with transdermal estradiol and oral medroxyprogesterone acetate. Clemente C, et al. **Horm Metab Res** 1996 Oct;28(10):558-61

The independent association of smoking and drinking with serum beta-carotene levels among males in Miyagi, Japan. Fukao A, et al. **Int J Epidemiol** 1996 Apr;25(2):300-6

Antioxidant vitamins and immunodeficiency. Mastroiacovo P, et al. **Int J Vitam Nutr Res** 1996;66(2):141-5

Serum response of all-trans and 9-cis isomers of beta-carotene in humans. Johnson EJ, et al. **J Am Coll Nutr** 1996 Dec;15(6):620-4

Dietary intake and plasma concentrations of vitamin E, vitamin C, and beta carotene in patients with coronary artery disease. Mandel CH, et al. **J Am Diet Assoc** 1997 Jun;97(6):655-7

The relation between antioxidants and memory performance in the old and very old. Perrig WJ, et al. **J Am Geriatr Soc** 1997 Jun;45(6):718-24

Plasma cholesterol, B-carotene and ascorbic acid changes in human malaria. Njoku OU, et al. **J Commun Dis** 1995 Sep;27(3):186-90

Effect of selenium fertilization on selenium in feedstuffs and selenium, vitamin E, and beta-carotene concentrations in blood of cattle. Jukola E, et al. **J Dairy Sci** 1996 May; 79(5):831-7

Blood selenium, vitamin E, vitamin A, and beta-carotene concentrations and udder health, fertility treatments, and fertility. Jukola E, et al. **J Dairy Sci** 1996 May;79(5):838-45

Dietary manipulation of plasma carotenoid concentrations of squirrel monkeys (Saimiri sciureus). Snodderly DM, et al. **J Nutr** 1997 Jan;127(1):122-9

Plasma levels of retinol, retinol-binding protein, all-trans beta-carotene and cryptoxanthin in low birth weight infants. Moji H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):595-606

Reduced plasma concentrations of alpha-tocopherol and beta-carotene in obese boys. Decsi T, et al. **J Pediatr** 1997 Apr;130(4):653-5

Plasma alpha-tocopherol, beta-carotene, and lipid levels in semi-free-ranging Przewalski horses (Equus przewalskii). Dierenfeld ES, et al. **J Zoo Wildl Med** 1997 Jun;28(2):144-7

Plasma beta-carotene concentrations in pregnancies, newborn infants and their mothers. Karakilcik AZ, et al. **JPMA J Pak Med Assoc** 1996 Apr;46(4):77-80

The age-associated decline in immune function of healthy individuals is not related to changes in plasma concentrations of beta-carotene, retinol, alpha-tocopherol or zinc. Gardner EM, et al. **Mech Ageing Dev** 1997 Mar; 94(1-3):55-69

Seasonal changes in vitamin A and beta-carotene levels in chronic hemodialysis patients [letter] Kavukçu S, et al. **Nephron** 1996;74(2):466-7

Relationship between plasma concentrations of beta-carotene and alpha-tocopherol and life-style factors and levels of DNA adducts in lymphocytes. Wang Y, et al. **Nutr Cancer** 1997;27(1):69-73

CHEMISTRY

Antioxidant actions of beta-carotene in liposomal and microsomal membranes: role of carotenoid-membrane incorporation and alpha-tocopherol. Liebler DC, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):244-50

beta-Carotene effectively scavenges toxic nitrogen oxides: nitrogen dioxide and peroxynitrous acid. Kikugawa K, et al. **FEBS Lett** 1997 Mar 10;404(2-3):175-8

Kinetics of photobleaching of beta-carotene in chloroform and formation of transient carotenoid species absorbing in the near infrared. Mortensen A, et al. **Free Radic Res** 1996 Oct;25(4):355-68

Kinetics of parallel electron transfer from beta-carotene to phenoxyl radical and adduct formation between phenoxyl radical and beta-carotene. Mortensen A, et al. **Free Radic Res** 1996 Dec;25(6):515-23

Serum response of all-trans and 9-cis isomers of beta-carotene in humans. Johnson EJ, et al. **J Am Coll Nutr** 1996 Dec;15(6):620-4

Solubilization of beta-carotene in culture media. Gross MD, et al. **Nutr Cancer** 1997;27(2):174-6

In vivo antiperoxidative effect of 9-cis beta-carotene compared with that of the all-trans isomer. Levin G, et al. **Nutr Cancer** 1997;27(3):293-7

CONTRAINDICATIONS

Beta-carotene and lung cancer? [letter] Lovas JG, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):236-7

DEFICIENCY

Carotene deficiency in HIV patients [letter] Baranowitz SA, et al. **AIDS** 1996 Jan;10(1):115

The independent association of smoking and drinking with serum beta-carotene levels among males in Miyagi, Japan. Fukao A, et al. **Int J Epidemiol** 1996 Apr;25(2):300-6

Serum beta-carotene deficiency in HIV-infected children. Omene JA, et al. **J Natl Med Assoc** 1996 Dec;88(12):789-93

IMMUNOLOGY

Beta-carotene supplementation: friend or foe? [editorial; comment] Fernandes G. **J Lab Clin Med** 1997 Mar; 129(3):285-7. Comment on: J Lab Clin Med 1997 Mar;129(3):309-17.

ISOLATION & PURIFICATION

A simple procedure for large-scale purification of 9-cis beta-carotene from Dunaliella bardawil. Suzuki T, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1077-84

The genus Rhodosporidium: a potential source of beta-carotene. de Miguel T, et al. **Microbiologia** 1997 Mar; 13(1):67-70

METABOLISM

Mathematical modeling in nutrition: constructing a physiologic compartmental model of the dynamics of beta-carotene metabolism. Novotny JA, et al. **Adv Food Nutr Res** 1996;40:25-54 (39 ref.)

Experimental approaches to the study of beta-carotene metabolism: potential of a 13C tracer approach to modeling beta-carotene kinetics in humans. Swanson JE, et al. **Adv Food Nutr Res** 1996;40:55-79 (66 ref.)

beta-Carotene in breast milk and serum is increased after a single beta-carotene dose. Canfield LM, et al. **Am J Clin Nutr** 1997 Jul;66(1):52-61

Absorption of beta-carotene and other carotenoids in humans and animal models. van Vliet T. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S32-7 (59 ref.)

beta-Carotene accumulation in mouse tissues and a protective role against lipid peroxidation. Iyama T, et al. **Int J Vitam Nutr Res** 1996;66(4):301-5

Purification and partial characterization of a cellular carotenoid-binding protein from ferret liver. Rao MN, et al. **J Biol Chem** 1997 Sep 26;272(39):24455-60

In vivo biosynthesis of retinoic acid from beta-carotene involves and excentric cleavage pathway in ferret intestine. Hébuterne X, et al. **J Lipid Res** 1996 Mar;37(3):482-92

Beta-carotene and disease: a suggested pro-oxidant and anti-oxidant mechanism and speculations concerning its role in cigarette smoking. Truscott TG. **J Photochem Photobiol B** 1996 Sep;35(3):233-5

Peroxidase-catalyzed oxidation of beta-carotene in HL-60 cells and in model systems: involvement of phenoxyl radicals. Tyurin VA, et al. **Lipids** 1997 Feb;32(2):131-42

The effects of dietary taurocholate, fat, protein, and carbohydrate on the distribution and fate of dietary beta-carotene in ferrets. Lakshman MR, et al. **Nutr Cancer** 1996;26(1):49-61

Human lipoproteins as a vehicle for the delivery of beta-carotene and alpha-tocopherol to HepG2 cells. Martin KR, et al. **Proc Soc Exp Biol Med** 1997 Apr; 214(4):367-73

PHARMACOKINETICS

Preferential increase in chylomicron levels of the xanthophylls lutein and zeaxanthin compared to beta-carotene in the human. Gärtner C, et al. **Int J Vitam Nutr Res** 1996;66(2):119-25

The effect of orlistat, an inhibitor of dietary fat absorption, on the pharmacokinetics of beta-carotene in healthy volunteers. Zhi J, et al. **J Clin Pharmacol** 1996 Feb; 36(2):152-9

Ingestion by men of a combined dose of beta-carotene and lycopene does not affect the absorption of beta-carotene but improves that of lycopene. Johnson EJ, et al. **J Nutr** 1997 Sep;127(9):1833-7

PHARMACOLOGY

The effect of beta-carotene and vitamins A, D3 and E on some reproductive parameters in cows. Iwańska S, et al. **Acta Vet Hung** 1997;45(1):95-107

Natural killer cell activity in elderly men is enhanced by beta-carotene supplementation. Santos MS, et al. **Am J Clin Nutr** 1996 Nov;64(5):772-7

Effects of conjugated dienoic derivatives of linoleic acid and beta-carotene in modulating lymphocyte and macrophage function. Chew BP, et al. **Anticancer Res** 1997 Mar-Apr; 17(2A):1099-106

Influence of vitamin C, vitamin E and beta-carotene on the osmotic fragility and the primary antioxidant system of erythrocytes in zinc-deficient rats. Kraus A, et al. **Arch Tierernahr** 1997;50(3):257-69

Effect of beta-carotene, canthaxanthin, or lutein on lymphocyte proliferation (in vitro) of newly hatched chicks. Haq A, et al. **Avian Dis** 1996 Oct-Dec;40(4):823-7

Hypocholesterolemic effect of lycopene and beta-carotene is related to suppression of cholesterol synthesis and augmentation of LDL receptor activity in macrophages. Fuhrman B, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):658-62

An investigation of the radioprotective effect of dietary antioxidants on isolated murine lymphocytes. Galligan ES, et al. **Biochem Soc Trans** 1997 Feb;25(1):136S

Dietary beta-carotene supplementation modulates the production of tumour necrosis factor-alpha by human monocytes. Hughes DA, et al. **Biochem Soc Trans** 1996 Aug;24(3):387S

Beta-carotene supplementation enhances the expression of functionally associated molecules on human monocytes. Hughes DA, et al. **Biochem Soc Trans** 1996 Aug;24(3):388S

Comparison of effects of beta-carotene and lycopene supplementation on the expression of functionally associated molecules on human monocytes. Hughes DA, et al. **Biochem Soc Trans** 1997 May;25(2):206S

Zeaxanthin (dihydroxy-beta-carotene) but not beta-carotene rigidifies lipid membranes: a 1H-NMR study of carotenoid-egg phosphatidylcholine liposomes. Gabrielska J, et al. **Biochim Biophys Acta** 1996 Dec 4;1285(2):167-74

Beta-carotene inhibits rat liver chromosomal aberrations and DNA chain break after a single injection of diethylnitrosamine. Sarkar A, et al. **Br J Cancer** 1997; 76(7):855-61

Modulation of cholestane-3 beta,5 alpha,6 beta-triol toxicity by butylated hydroxytoluene, alpha-tocopherol and beta-carotene in newborn rat kidney cells in vitro. Wilson AM, et al. **Br J Nutr** 1997 Sep;78(3):479-92

Lack of growth inhibition or enhancement of gap junctional intercellular communication and connexin43 expression by beta-carotene in murine lung epithelial cells in vitro. Banoub RW, et al. **Cancer Lett** 1996 Nov 12;108(1):35-40

The protective role of dietary antioxidants (beta-carotene) against free radical formation in anaerobes with continued exposure to oxygen. Kemble RJ, et al. **Cancer Lett** 1997 Mar 19;114(1-2):231-2

Ascorbic acid and beta-carotene as modulators of oxidative damage. Cozzi R, et al. **Carcinogenesis** 1997 Jan;18(1):223-8

Synergistic suppression of azoxymethane-induced foci of colonic aberrant crypts by the combination of beta-carotene and perilla oil in rats. Komaki C, et al. **Carcinogenesis** 1996 Sep;17(9):1897-901

Effect of beta-carotene on cell cycle progression of human fibroblasts. Stivala LA, et al. **Carcinogenesis** 1996 Nov; 17(11):2395-401

Antioxidant reactions of beta-carotene: identification of carotenoid-radical adducts. Liebler DC, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):8-11

Evaluation of retinal susceptibility to light damage in pigmented rats supplemented with beta-carotene. Rapp LM, et al. **Curr Eye Res** 1996 Feb;15(2):219-23

Effects of beta-carotene, flavonoid quercitin and quinacrine on cell proliferation and lipid peroxidation breakdown products in BHK-21 cells. Alliangana DM. **East Afr Med J** 1996 Nov;73(11):752-7

The effect of beta-carotene on sputum cytology in smokers: a preliminary study. van Poppel G, et al. **Eur J Cancer Prev** 1997 Jun;6(3):294-9

Beta-carotene as antioxidant. Bast A, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S54-6

The carotenoids beta-carotene, canthaxanthin and zeaxanthin inhibit macrophage-mediated LDL oxidation. Carpenter KL, et al. **FEBS Lett** 1997 Jan 20;401(2-3):262-6

Antioxidant and prooxidant role of beta-carotene in murine normal and tumor thymocytes: effects of oxygen partial pressure. Palozza P, et al. **Free Radic Biol Med** 1997; 22(6):1065-73

Beta-carotene enhances natural killer cell activity in athymic mice. Carlos TF, et al. **In Vivo** 1997 Jan-Feb;11(1):87-91

Effect of beta-carotene on histamine release from human mast cells and monocytes. Schmutzler W, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):335-6

Interaction between beta-carotene and lipoxygenase in human skin. Bar-Natan R, et al. **Int J Biochem Cell Biol** 1996 Aug;28(8):935-41

beta-Carotene accumulation in mouse tissues and a protective role against lipid peroxidation. Iyama T, et al. **Int J Vitam Nutr Res** 1996;66(4):301-5

Effect of vitamin E and beta-carotene on DNA strand breakage induced by tobacco-specific nitrosamines and stimulated human phagocytes. Weitberg AB, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):11-4

Beta-carotene supplementation: friend or foe? [editorial; comment] Fernandes G. **J Lab Clin Med** 1997 Mar; 129(3):285-7. Comment on: J Lab Clin Med 1997 Mar;129(3):309-17.

The effect of beta-carotene supplementation on the immune function of blood monocytes from healthy male nonsmokers [see comments] Hughes DA, et al. **J Lab Clin Med** 1997 Mar;129(3):309-17. Comment in: J Lab Clin Med 1997 Mar;129(3):285-7.

Supplementation with vitamin C, vitamin E or beta-carotene influences osmotic fragility and oxidative damage of erythrocytes of zinc-deficient rats. Kraus A, et al. **J Nutr** 1997 Jul;127(7):1290-6

Beta-carotene and lutein protect HepG2 human liver cells against oxidant-induced damage. Martin KR, et al. **J Nutr** 1996 Sep;126(9):2098-106

Evidence of a role for fat-free body mass in modulation of plasma carotenoid concentrations in older men: studies with hydrodensitometry. Zhu YI, et al. **J Nutr** 1997 Feb; 127(2):321-6

Inhibition of beta-carotene and astaxanthin of NADPH-dependent microsomal phospholipid peroxidation. Nakagawa K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Jun;43(3):345-55

beta-Carotene attenuates peroxide-induced vasoconstriction in the human placenta. Cueto SM, et al. **J Soc Gynecol Investig** 1997 Mar-Apr;4(2):64-71

Chemopreventive efficacy of piroxicam administered alone or in combination with lycopene and beta-carotene on the development of rat urinary bladder carcinoma after N-butyl-N-(4-hydroxybutyl)nitrosamine treatment. Okajima E, et al. **Jpn J Cancer Res** 1997 Jun;88(6):543-52

Radioprotection of beta-carotene evaluated on mouse somatic and germ cells. Salvadori DM, et al. **Mutat Res** 1996 Sep 23;356(2):163-70

No evidence for an inhibitory effect of beta-carotene or of canthaxanthin on the initiation of liver preneoplastic foci by diethylnitrosamine in the rat. Astorg P, et al. **Nutr Cancer** 1996;25(1):27-34

In vitro beta-carotene toxicity for human colon cancer cells. Iftikhar S, et al. **Nutr Cancer** 1996;25(3):221-30

In vivo antiperoxidative effect of 9-cis beta-carotene compared with that of the all-trans isomer. Levin G, et al. **Nutr Cancer** 1997;27(3):293-7

Effect of beta-carotene, canthaxanthin, lutein, and vitamin E on neonatal immunity of chicks when supplemented in the broiler breeder diets. Haq AU, et al. **Poult Sci** 1996 Sep;75(9):1092-7

Natural beta-carotene and whole body irradiation in rats. Ben-Amotz A, et al. **Radiat Environ Biophys** 1996 Nov; 35(4):285-8

beta-Apo-8'-carotenal, but not beta-carotene, is a strong inducer of liver cytochromes P4501A1 and 1A2 in rat. Gradelet S, et al. **Xenobiotica** 1996 Sep;26(9):909-19

[The effect of vitamin A and beta-carotene on the vitamin E status, ejaculation parameters and health of boar used for insemination] Wemheuer W, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct;103(10):431-7 (Eng. Abstr.) **(Ger)**

[The immunomodulating action of retinol acetate and beta-carotene in benzylpenicillin-induced immunosuppression] Uteshev BS, et al. **Eksp Klin Farmakol** 1996 Mar-Apr;59(2):31-4 (Eng. Abstr.) **(Rus)**

[Mutagen-modifying effects of beta-carotene in vivo] Durnev AD, et al. **Genetika** 1997 May;33(5):717-20 (Eng. Abstr.) **(Rus)**

[Inhibiting effects of mixtures of alpha-tocopherol with beta-carotene or vitamin A during oxidation of polyunsaturated fatty acid esters] Storozhok NM, et al. **Vopr Med Khim** 1996 Jan-Mar;42(1):16-22 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Lycopene: a biologically important carotenoid for humans? Stahl W, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):1-9 (80 ref.)

Role of carotene in the rapid turnover and assembly of photosystem II in Chlamydomonas reinhardtii. Trebst A, et al. **FEBS Lett** 1997 Jan 6;400(3):359-62

Is beta-carotene an antioxidant? Crabtree DV, et al. **Med Hypotheses** 1997 Feb;48(2):183-7 (37 ref.)

THERAPEUTIC USE

Effect of micronutrient supplementation on infection in institutionalized elderly subjects: a controlled trial. Girodon F, et al. **Ann Nutr Metab** 1997;41(2):98-107

The lack of effect of beta-carotene on restenosis in cholesterol-fed rabbits. Burchenal JE, et al. **Atherosclerosis** 1996 Jun;123(1-2):157-67

Modulation of paraquat toxicity by beta-carotene at low oxygen partial pressure in chicken embryo fibroblasts. Lawlor SM, et al. **Br J Nutr** 1997 Jan;77(1):133-40

beta-Carotene treatment of cervical intraepithelial neoplasia: a phase II study. Manetta A, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):929-32

Antioxidant vitamins and stomach cancer: the role of ecologic studies. Kromhout D, et al. **Cancer Lett** 1997 Mar 19;114(1-2):333-4

beta-Carotene and the role of intervention studies. Potter JD. **Cancer Lett** 1997 Mar 19;114(1-2):329-31

Beta-carotene did not work: aftermath of the ATBC study. Rautalahti M, et al. **Cancer Lett** 1997 Mar 19;114(1-2):235-6

Randomized, controlled trial of antioxidant vitamins and cardioprotective diet on hyperlipidemia, oxidative stress, and development of experimental atherosclerosis: the diet and antioxidant trial on atherosclerosis (DATA). Singh RB, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):763-71

One-year antioxidant supplementation with beta-carotene or selenium for patients infected with human immunodeficiency virus: a pilot study. Constans J, et al. **Clin Infect Dis** 1996 Sep;23(3):654-6

Epidemiological evidence for beta-carotene in prevention of cancer and cardiovascular disease. van Poppel G. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S57-61 (33 ref.)

Effects of beta-carotene and other factors on outcome of cervical dysplasia and human papillomavirus infection. Romney SL, et al. **Gynecol Oncol** 1997 Jun;65(3):483-92

Initiation and post-initiation chemopreventive effects of beta-carotene in toad liver carcinogenesis. Sadek IA, et al. **Histol Histopathol** 1996 Apr;11(2):357-60

Why did antioxidants not protect against lung cancer in the Alpha-Tocopherol, Beta-Carotene Cancer Prevention Study? Huttunen JK. **IARC Sci Publ** 1996;(136):63-5

Chemoprevention of lung cancer: the beta-Carotene and Retinol Efficacy Trial (CARET) in high-risk smokers and asbestos-exposed workers. Omenn GS, et al. **IARC Sci Publ** 1996;(136):67-85

beta-Carotene and alpha-tocopherol inhibit the development of atherosclerotic lesions in hypercholesterolemic rabbits. Sun J, et al. **Int J Vitam Nutr Res** 1997;67(3):155-63

Carotenoids and antioxidant vitamins in patients after burn injury. Rock CL, et al. **J Burn Care Rehabil** 1997 May-Jun; 18(3):269-78; discussion 268

The effect of antioxidant vitamin supplementation on traditional cardiovascular risk factors. Miller ER 3rd, et al. **J Cardiovasc Risk** 1997 Feb;4(1):19-24

Alpha-Tocopherol and beta-carotene supplements and lung cancer incidence in the alpha-tocopherol, beta-carotene cancer prevention study: effects of base-line characteristics and study compliance [see comments] Albanes D, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1560-70. Comment in: J Natl Cancer Inst 1996 Nov 6;88(21):1513-5.

Re: Risk factors for lung cancer and for intervention effects in CARET, the Beta-Carotene and Retinol Efficacy trial [letter; comment] Challem JJ. **J Natl Cancer Inst** 1997 Feb 19;89(4):325-6. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1550-9.

Low-dose isotretinoin versus beta-carotene to prevent oral carcinogenesis: long-term follow-up. Papadimitrakopoulou VA, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):257-8

Probucol and multivitamins in the prevention of restenosis after coronary angioplasty. Multivitamins and Probucol Study Group [see comments] Tardif JC, et al. **N Engl J Med** 1997 Aug 7;337(6):365-72. Comment in: N Engl J Med 1997 Aug 7;337(6):418-9.

Suppression of mouse skin papilloma by canthaxanthin and beta-carotene in vivo: possibility of the regression of tumorigenesis by carotenoids without conversion to retinoic acid. Katsumura N, et al. **Nutr Cancer** 1996; 26(2):203-8

Antioxidant vitamins and cardiovascular disease. Buring JE, et al. **Nutr Rev** 1997 Jan;55(1 Pt 2):S53-8; discussion S58-60 (42 ref.)

The Nambour study of ocular disease. I. Design, study population and methodology. Ambler JS, et al. **Ophthalmic Epidemiol** 1995 Dec;2(3):137-44

Chemoprevention of oral leukoplakia with vitamin A and beta carotene: an assessment. Sankaranarayanan R, et al. **Oral Oncol** 1997 Jul;33(4):231-6

Neutrophil elastase/alpha 1-proteinase inhibitor complex levels decrease in plasma of cystic fibrosis patients during long-term oral beta-carotene supplementation. Winklhofer-Roob BM, et al. **Pediatr Res** 1996 Jul; 40(1):130-4

Beta carotene and cancer: risk or protection? [editorial] Vainio H. **Scand J Work Environ Health** 1996 Jun; 22(3):161-3 (15 ref.)

["Good" and "bad" beta-carotene? (letter)] Thiberville L, et al. **Rev Mal Respir** 1996 Oct;13(5):538 **(Fre)**

[Immunomodulating and hepatoprotective action of retinoids in toxic liver involvement induced by D-galactosamine] Konoplia EN, et al. **Antibiot Khimioter** 1996;41(7-8):22-5 (Eng. Abstr.) **(Rus)**

[The molecular, cellular and systemic mechanisms of the radioprotective action of multivitamin antioxidant complexes] Riabchenko NI, et al. **Radiats Biol Radioecol** 1996 Nov-Dec;36(6):895-9 (Eng. Abstr.) **(Rus)**

[The use of the Multitabs vitamin preparation in men with infertility] Horpynchenko II, et al. **Lik Sprava** 1997 Mar-Apr;(2):92-5 **(Ukr)**

TOXICITY

Cytotoxic effect of beta-carotene in vitro is dependent on serum concentration and source. Peram V, et al. **Cancer Lett** 1996 Aug 23;106(1):133-8

Is beta-carotene an antioxidant? Crabtree DV, et al. **Med Hypotheses** 1997 Feb;48(2):183-7 (37 ref.)

BETA CELL, ARTIFICIAL see **INSULIN INFUSION SYSTEMS**

BETA-CELL TUMOR see **INSULINOMA**

BETA-CHOLESTANOL see **CHOLESTANOL**

BETA-ENDORPHIN

Time-dependent sensitization of plasma beta-endorphin in community elderly with self-reported environmental chemical odor intolerance. Bell IR, et al. **Biol Psychiatry** 1996 Jul 15;40(2):134-43

ADMINISTRATION & DOSAGE

Differential effects of forskolin and phorbol-13-myristate injected intrathecally or intracerebroventricularly on antinociception induced by morphine or beta-endorphin administered intracerebroventricularly in the mouse. Suh HW, et al. **Neuropeptides** 1996 Apr;30(2):177-85

Chronic intracerebroventricular administration of beta-endorphin augments natural killer cell cytotoxicity in rats. Jonsdottir IH, et al. **Regul Pept** 1996 Apr 23; 62(2-3):113-8

ANALOGS & DERIVATIVES

Kinetic evaluation of beta-neoendorphin hydrolysis by the somatic and testicular isozymes of human angiotensin-converting enzyme. Hayakari M, et al. **Biochim Biophys Acta** 1997 Apr 25;1339(1):31-8

Effect of beta-endorphin C-terminal peptides on glucose uptake in isolated skeletal muscles of the mouse. Evans A, et al. **Peptides** 1997;18(1):165-7

POMC-related products in the intermediate pituitary of the amphibian, Bufo marinus: differential subcellular processing in the Golgi and secretory granules. Steveson TC, et al. **Peptides** 1996;17(3):425-34

ANALYSIS

Identification and measurement of beta-endorphin levels in the skin during induced hair growth in mice. Furkert J, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):315-22

Insulin receptors in the pituitary gland: morphological evidence for influence on opioid peptide-synthesizing cells. Unger JW, et al. **Cell Tissue Res** 1997 Jun;288(3):471-83

An immunocytochemical mapping of beta-endorphin (1-27) in the cat diencephalon. Coveñas R, et al. **Neuropeptides** 1996 Jun;30(3):261-71

NPY Y1 receptor like immunoreactivity exists in a subpopulation of beta-endorphin immunoreactive nerve cells in the arcuate nucleus: a double immunolabelling analysis in the rat. Fuxe K, et al. **Neurosci Lett** 1997 Mar 28;225(1):49-52

Estradiol alters ethanol-induced effects on beta-endorphin and met-enkephalin levels in specific brain regions of ovariectomized rats. Carter A, et al. **Pharmacology** 1996 Sep;53(3):143-50

BETA-ENDORPHIN

ANTAGONISTS & INHIBITORS

Opioid antagonists in the periaqueductal gray inhibit morphine and beta-endorphin analgesia elicited from the amygdala of rats. Pavlovic ZW, et al. **Brain Res** 1996 Nov 25;741(1-2):13-26

Cyclo(Gly-Gln) inhibits the cardiorespiratory depression produced by beta-endorphin and morphine. Unal CB, et al. **Brain Res** 1997 Jan 30;747(1):52-9

Pretreatment with pertussis toxin blocks morphine- but not beta-endorphin-induced antinociception in the mouse. Tseng LF, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):345-8

Inhibition of spinal nitric oxide synthase by N(omega)-nitro-L-arginine blocks the release of Met-enkephalin and antinociception induced by supraspinally administered beta-endorphin in the rat. Tseng LF, et al. **Neuroscience** 1997 May;78(2):461-7

BIOSYNTHESIS

Intravenous injections of the ribosome inactivating protein trichosanthin did not affect methionine enkephalin and beta-endorphin levels in the mouse brain and pituitary. Ng TB, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):985-9

Immune cell-derived beta-endorphin. Production, release, and control of inflammatory pain in rats. Cabot PJ, et al. **J Clin Invest** 1997 Jul 1;100(1):142-8

Pain killers of the immune system [news] Sharp B, et al. **Nat Med** 1997 Aug;3(8):831-2

BLOOD

Elevation of plasma beta-endorphin levels of shy elderly in response to novel laboratory experiences. Bell IR, et al. **Behav Med** 1997 Winter;22(4):168-73

Time-dependent sensitization of plasma beta-endorphin in community elderly with self-reported environmental chemical odor intolerance. Bell IR, et al. **Biol Psychiatry** 1996 Jul 15;40(2):134-43

Activation of anterior lobe corticotrophs by electroacupuncture or noxious stimulation in the anaesthetized rat, as shown by colocalization of Fos protein with ACTH and beta-endorphin and increased hormone release. Pan B, et al. **Brain Res Bull** 1996;40(3):175-82

Plasma beta-endorphin response to exercise in patients with congestive heart failure. Perna GP, et al. **Chest** 1997 Jan; 111(1):19-22

Plasma beta-endorphin levels during liver transplantation in patients with familial amyloidotic polyneuropathy. Acosta F, et al. **Clin Biochem** 1996 Aug;29(4):393-5

Effect of nipradilol on silent myocardial ischemia, plasma beta-endorphin, and bradykinin in chronic stable angina. Takase B, et al. **Clin Cardiol** 1996 Jun;19(6):477-82

Relationship among depression scores, beta-endorphin, and angina pectoris during exercise in patients with coronary artery disease. Krittayaphong R, et al. **Clin J Pain** 1996 Jun;12(2):126-33

Ibuprofen elevates immunoreactive beta-endorphin levels in humans during surgical stress. Troullos E, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):74-81

Umbilical cord beta-endorphin and early childhood motor development. Rothenberg SJ, et al. **Early Hum Dev** 1996 Sep 20;46(1-2):83-95

Circulating immunoreactive beta endorphin concentrations in the perinatal foal. Dudan FE, et al. **Equine Vet J Suppl** 1988 Sep;(5):46-9

beta-Endorphin and adrenocorticotrophin after incremental exercise and marathon running--female responses. Heitkamp HC, et al. **Eur J Appl Physiol** 1996; 72(5-6):417-24

Plasma concentrations of beta-endorphin and adrenocorticotropic hormone in women with and without childbirth preparation. Florido J, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun;73(2):121-5

Plasma concentrations of beta-endorphin in trained eumenorrheic and amenorrheic women. Harber VJ, et al. **Fertil Steril** 1997 Apr;67(4):648-53

Plasma levels of beta-endorphin during the menstrual cycle. Ferrer J, et al. **Gynecol Endocrinol** 1997 Apr;11(2):75-82

ACTH, beta-endorphin, substance P, and corticotrophin releasing hormone in plasma and follicular fluid in hormonally stimulated menstrual cycles for in-vitro fertilization in the human. Kerdelhué B, et al. **Hum Reprod** 1997 Feb;12(2):231-5

Influence of insulin on beta-endorphin plasma levels in obese and normal weight subjects. Brunani A, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):710-4

Effects of a 110 kilometers ultra-marathon race on plasma hormone levels. Fournier PE, et al. **Int J Sports Med** 1997 May;18(4):252-6

Effects of low-volume resistive exercise on beta-endorphin and cortisol concentrations. Kraemer RR, et al. **Int J Sports Med** 1996 Jan;17(1):12-16

Stress hormones in accident patients studied before admission to hospital. Hetz W, et al. **J Accid Emerg Med** 1996 Jul; 13(4):243-7

Endogenous beta-endorphins in hypertension: correlation with 24-hour ambulatory blood pressure [published erratum appears in J Am Coll Cardiol 1997 Feb;29(2):474] Guasti L, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1243-8

The effect of selected classical music and spontaneous imagery on plasma beta-endorphin. McKinney CH, et al. **J Behav Med** 1997 Feb;20(1):85-99

Milk yield, oxytocin and beta-endorphin gradually normalize during repeated milking in unfamiliar surroundings. Bruckmaier RM, et al. **J Dairy Res** 1996 May;63(2):191-200

Beta-endorphin concentrations in the sera of asthmatic patients. Jankowska R, et al. **J Investig Allergol Clin Immunol** 1996 Nov-Dec;6(6):356-8

Prolactin and beta-endorphin responses to hypoglycemia are reduced in well-controlled insulin-dependent diabetes mellitus. Kinsley BT, et al. **Metabolism** 1996 Nov; 45(11):1434-40

Beta-endorphin and cholecystokinin 8 concentrations in peripheral blood mononuclear cells of autistic children. Brambilla F, et al. **Neuropsychobiology** 1997;35(1):1-4

Circadian variations in plasma ACTH, cortisol and beta-endorphin levels in normal-weight bulimic women. Vescovi PP, et al. **Neuropsychobiology** 1996;33(2):71-5

Effects of bradykinin receptor antagonist on the release of beta-endorphin and bradykinin and on hemodynamic changes in a canine model of experimental acute pancreatitis. Satake K, et al. **Pancreas** 1996 Jan;12(1):92-7

Associations of beta-endorphin with HVA and MHPG in the plasma of prepubertal boys: effects of familial drug abuse and antisocial personality disorder liability. Moss HB, et al. **Psychiatry Res** 1996 Jun 1;62(3):203-11

Noise stress does not modulate effects of smoking/nicotine on beta-endorphin, cortisol, ACTH, glucose, and mood. Gilbert DG, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(3):197-202

Serum beta-endorphin increase after intravenous histamine treatment of chronic daily headache. Anselmi B, et al. **Recenti Prog Med** 1997 Jul-Aug;88(7-8):321-4

Peripheral beta-endorphin in rheumatoid arthritis. A correlation with the disease activity. Elbeialy A, et al. **Scand J Rheumatol** 1997;26(2):88-91

Effects of haemodialysis session on plasma beta-endorphin, ACTH and cortisol in patients with end-stage renal disease. Letizia C, et al. **Scand J Urol Nephrol** 1996 Oct; 30(5):399-402

Decreased patient analgesic requirements after liver transplantation and associated neuropeptide levels. Donovan KL, et al. **Transplantation** 1997 May 27; 63(10):1423-9

[Responses of somatostatin, beta-endorphin and dynorphin A to A glucose load in two groups of women with polycystic ovarian syndrome] Wu X, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Dec;30(12):728-31 (Eng. Abstr.) **(Chi)**

[Effect of acupuncture on immunomodulation in patients with malignant tumors] Wu B, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):139-41 (Eng. Abstr.) **(Chi)**

[Plasma levels of beta-endorphins and ACTH in labor with continuous peridural analgesia] Borgia ML, et al. **Minerva Anestesiol** 1996 May;62(5):183-6 (Eng. Abstr.) **(Ita)**

[The content of beta-endorphin, met-enkephalin and ACTH in the blood plasma during electric and drug anesthesia] Alisov AP, et al. **Anesteziol Reanimatol** 1996 May-Jun; (3):9-14 (Eng. Abstr.) **(Rus)**

[Relationship between opioid peptides and mediator systems in children] Panchenko NI, et al. **Klin Lab Diagn** 1993 May-Jun;(3):12-5 (Eng. Abstr.) **(Rus)**

[Endorphins and neurotensin in Huntington chorea] Nikol'skaia NN, et al. **Vopr Med Khim** 1996 Jul-Sep; 42(3):263-7 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

CSF ACTH and beta-endorphin in infants with West syndrome and ACTH therapy. Heiskala H. **Brain Dev** 1997 Jul;19(5):339-42

Beta-endorphin in cerebrospinal fluid: relation to nociception. Bach FW. **Dan Med Bull** 1997 Jun; 44(3):274-86 (128 ref.)

CSF beta-endorphin levels in patients with infantile autism. Nagamitsu S, et al. **J Autism Dev Disord** 1997 Apr; 27(2):155-63

Beta-endorphin immunoreactivity levels in CSF after laryngeal chemoreflex activation correlate with apnoea duration in piglets. Storm H, et al. **J Perinat Med** 1996; 24(4):363-72

Effects of halothane, alpha-chloralose, and pCO2 on injury volume and CSF beta-endorphin levels in focal cerebral ischemia. Browning JL, et al. **Mol Chem Neuropathol** 1997 May;31(1):29-42

Endogenous neuropeptides in patients with acute traumatic head injury, I: cerebrospinal fluid beta-endorphin levels are increased within 24 hours following the trauma. Paşaoglu H, et al. **Neuropeptides** 1996 Feb;30(1):47-51

Alterations of beta-endorphin-like immunoreactivity in CSF following behavioral training using a passive avoidance procedure. Wan RQ, et al. **Psychoneuroendocrinology** 1996 Aug;21(6):503-13

[Endorphins and neurotensin in Huntington chorea] Nikol'skaia NN, et al. **Vopr Med Khim** 1996 Jul-Sep; 42(3):263-7 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Characterization of unstable intermediates and oxidized products formed during cyanogen bromide cleavage of peptides and proteins by electrospray mass spectrometry. Zhang X, et al. **Anal Chem** 1996 Oct 1;68(19):3422-30

Receptor-binding properties of the peptides corresponding to the beta-endorphin-like sequence of human immunoglobulin G. Zav'yalov VP, et al. **Immunol Lett** 1996 Jan;49(1-2):21-6

beta-endorphin1-31 in the rat pituitary. Grigoriants OO, et al. **Int J Pept Protein Res** 1996 Jan-Feb;47(1-2):123-30

DRUG EFFECTS

Neuropeptide Y stimulates beta-endorphin release in the basal hypothalamus: role of gonadal steroids. Kalra PS, et al. **Brain Res** 1995 Dec 24;705(1-2):353-6

Effect of chronic treatment with morphine, midazolam, and both together on beta-endorphin levels in the rat. Rattan AK, et al. **Brain Res Bull** 1996;41(6):335-41

GENETICS

Tachykinin-induced changes in beta-endorphin gene expression in the rat arcuate nucleus. Magoul R, et al. **Neurosci Lett** 1997 Feb 21;223(2):93-6

METABOLISM

Effects of melatonin infused into the III ventricle on prolactin, beta-endorphin and luteotropin secretion in ewes during the different stages of the reproductive cycle. Misztal T, et al. **Acta Neurobiol Exp (Warsz)** 1996; 56(3):769-78 (32 ref.)

Purification and characterization of a secreted T cell beta-endorphin endopeptidase. Safavi A, et al. **Adv Exp Med Biol** 1996;402:71-9

The role of cAMP in ethanol-regulated beta-endorphin release from hypothalamic neurons. Boyadjieva NI, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):728-31

Inhibition of acid secretion by electrical acupuncture is mediated via beta-endorphin and somatostatin. Jin HO, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G524-30

Agonist-induced desensitization and down-regulation of delta opioid receptors alter the levels of their 125I-beta-endorphin cross-linked products in subcellular fractions from NG108-15 cells. Belcheva MM, et al. **Biochemistry** 1996 Nov 26;35(47):14818-24

Release of beta-endorphin immunoreactivity into ventriculo-cisternal perfusate by lumbar intrathecal capsaicin in the rat. Bach FW, et al. **Brain Res** 1995 Dec 1;701(1-2):192-200

In vivo microdialysis study on changes in septal dynorphin and beta-endorphin activities in active and hibernating Columbian ground squirrels. Cui Y, et al. **Brain Res** 1996 Feb 26;710(1-2):271-4

Effects of anterolateral and posterolateral cuts around the medial hypothalamus on the immunoreactive ACTH and beta-endorphin levels in selected brain regions of the rat. Barna I, et al. **Brain Res Bull** 1997;42(5):353-7

Peripheral mononeuropathy affects hypothalamic and splenocyte beta-endorphin levels but not immune function in the rat. Bianchi M, et al. **Brain Res Bull** 1996; 40(4):269-72

Effects of photoperiod on estrogen receptor, tyrosine hydroxylase, neuropeptide Y, and beta-endorphin immunoreactivity in the ewe hypothalamus. Skinner DC, et al. **Endocrinology** 1997 Jun;138(6):2585-95

Effect of intracerebroventricularly injected choline on plasma ACTH and beta-endorphin levels in conscious rats. Savci V, et al. **Eur J Pharmacol** 1996 Aug 15;309(3):275-80

Dopamine affects the in vitro basal secretion of rat placenta opioids in an opioid and dopamine receptor type-specific manner. Stratakis CA, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):53-8

Portacaval anastomosis induces region-selective alterations of the endogenous opioid system in the rat brain. de Waele JP, et al. **Hepatology** 1996 Oct;24(4):895-901

Effect of monensin on secretory granules and basal beta-endorphin secretion in the melanotroph of the rat pituitary. Bäck N, et al. **Histochem J** 1996 Aug;28(8):591-7

Responses of somatostatin, beta-endorphin and dynorphin A to a glucose load in two groups of women with polycystic ovarian syndrome. Wu XK, et al. **Horm Res** 1996;46(2):59-63

Evaluation of beta-endorphin and interleukin-6 in seminal plasma of patients with certain andrological diseases. Zalata A, et al. **Hum Reprod** 1995 Dec;10(12):3161-5

Receptor-binding properties of the peptides corresponding to the beta-endorphin-like sequence of human immunoglobulin G. Zav'yalov VP, et al. **Immunol Lett** 1996 Jan;49(1-2):21-6

A secreted peptidase involved in T cell beta-endorphin metabolism. Miller BC, et al. **Immunopharmacology** 1996 Mar;31(2-3):151-61

The K channel blocker, tetraethylammonium, displaces beta-endorphin and naloxone from T-cell binding sites. Millar DB, et al. **J Neuroimmunol** 1997 Sep;78(1-2):8-18

Beta-endorphin, but not oxytocin, substance P or vasoactive-intestinal polypeptide, contributes to progesterone-induced prolactin secretion in monkeys. Pecins-Thompson M, et al. **Neuroendocrinology** 1996 Jun; 63(6):569-78

Beta-endorphin concentration in peripheral blood mononuclear cells of elderly depressed patients--effects of phosphatidylserine therapy. Brambilla F, et al. **Neuropsychobiology** 1996;34(1):18-21

Stimulatory effects of L-5-hydroxytryptophan on postdexamethasone beta-endorphin levels in major depression. Maes M, et al. **Neuropsychopharmacology** 1996

Oct;15(4):340–8
Remarkable beta–endorphinergic innervation of human cerebral cortex as revealed by immunohistochemistry. Bernstein HG, et al. **Neurosci Lett** 1996 Aug 30;215(1):33–6
Anabolic androgenic steroids increase beta–endorphin levels in the ventral tegmental area in the male rat brain. Johansson P, et al. **Neurosci Res** 1997 Feb;27(2):185–9
Neonatal MSG reduces hypothalamic DA, beta–endorphin, and delays weight gain in genetically obese (A viable yellow/alpha) mice. Caputo FA, et al.
Pharmacol Biochem Behav 1996 Feb;53(2):425–32
Ethanol–induced alterations in beta–endorphin levels in specific rat brain regions: modulation by adenosine agonist and antagonist. Anwer J, et al. **Pharmacology** 1995 Dec; 51(6):364–9
Beta–endorphin and cortisol levels in plasma and CSF following acute experimental spinal traumas. De Riu PL, et al. **Physiol Behav** 1997 Jul;62(1):1–5
Effects of naloxone on beta–endorphin and cortisol release in sepsis. Okur H, et al. **Res Exp Med (Berl)** 1996; 196(4):247–50
Beta–endorphins ACTH and cortisol in CSF and plasma of HIV infected patients. Spinazzola F, et al.
Riv Eur Sci Med Farmacol 1995 Sep–Oct;17(5):161–5
[Changes of opioid contents in brain and plasma through the hibernation bout cycle of ground squirrels– Ye ZC, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):610–4 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Responses in the hypothalamic monoaminergic system activity in ewes to beta–endorphin, CRF and their antagonists. Przekop F, et al.
Acta Neurobiol Exp (Warsz) 1996;56(3):807–17 (58 ref.)
Endogenous opioids and HIV infection. Sundar KS, et al. **Adv Exp Med Biol** 1996;402:53–7
Sexual motivation: involvement of endogenous opioids in the ventral tegmental area. van Furth WR, et al. **Brain Res** 1996 Aug 5;729(1):20–8
Intracerebroventricular administration of beta–endorphin increases the expression of c–fos and of corticotropin–releasing factor messenger ribonucleic acid in the paraventricular nucleus of the rat. Wang XQ, et al. **Brain Res** 1996 Jan 29;707(2):189–95
Effect of beta–endorphin on adherence, chemotaxis and phagocytosis of Candida Albicans by peritoneal macrophages. Ortega E, et al.
Comp Immunol Microbiol Infect Dis 1996 Sep;19(4):267–74
The interaction between beta–endorphin and gonadal steroids in regulation of luteinizing hormone (LH) secretion and sex steroid regulation of LH and proopiomelanocortin peptide secretion by individual pituitary cells. Kandeel FR, et al. **Endocrinology** 1997 Feb;138(2):649–56
Beta–endorphin enhances Concanavalin–A–stimulated calcium mobilization by murine splenic T cells. Shahabi NA, et al. **Endocrinology** 1996 Aug;137(8):3386–93
Beta–endorphin infusion alters pancreatic hormone and glucose levels during exercise in rats. Fatouros IG, et al. **Eur J Appl Physiol** 1997;76(3):203–8
Effects of GABA receptor antagonists injected spinally on antinociception induced by opioids administered supraspinally in mice. Suh HW, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):141–7
The steroidogenic effects of beta–endorphin and joining peptide: a potential role in the modulation of adrenal androgen production. Clarke D, et al. **J Endocrinol** 1996 Nov;151(2):301–7
Role of vasopressin in altered pial artery responses to dynorphin and beta–endorphin following brain injury. Armstead WM. **J Neurotrauma** 1996 Mar;13(3):115–23
Changes in the association of G protein subunits with the cloned mouse delta opioid receptor on agonist stimulation. Law SF, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1476–86
Pretreatment with pertussis toxin differentially modulates morphine– and beta–endorphin–induced antinociception in the mouse. Tseng LF, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):39–46
beta–Endorphin enhances polyamine transport in human lymphocytes. Ientile R, et al. **Life Sci** 1997;60(18):1545–51
In vitro effects of beta–endorphin on testicular release of androgens in the lizard Podarcis sicula Raf. Ciarcia G, et al. **Mol Reprod Dev** 1996 Nov;45(3):308–12
Nicotine enhances morphine– and beta–endorphin–induced antinociception at the supraspinal level in the mouse. Suh HW, et al. **Neuropeptides** 1996 Oct;30(5):479–84
Effects of intrathecally injected histamine receptor antagonists on the antinociception induced by morphine, beta–endorphin, and U50, 488H administered intrathecally in the mouse. Suh HW, et al. **Neuropeptides** 1996 Oct; 30(5):485–90
Intrathecally injected nicotine enhances the antinociception induced by morphine but not beta–endorphin, D–Pen2,5–enkephalin and U50,488H administered intrathecally in the mouse. Suh HW, et al.
Neuropeptides 1996 Aug;30(4):373–8
Neurotensin, N–acetyl–aspartylglutamate and beta–endorphin modulate [3H]dopamine release from guinea pig nucleus accumbens, prefrontal cortex and caudate–putamen. Weatherspoon JK, et al.
Neuropeptides 1996 Oct;30(5):497–505
Intravenous beta–endorphin administration fails to alter hypothalamic blood flow in rats expressing normal or reduced nitric oxide synthase activity. Benyó Z, et al.
Peptides 1996;17(4):733–6
Mu–opioid receptor is involved in beta–endorphin–induced feeding in goldfish. de Pedro N, et al. **Peptides** 1996; 17(3):421–4
Actions of beta–endorphin peptides on the contractions of mouse diaphragm muscle. Khan S, et al. **Peptides** 1997; 18(1):87–92
The effect of vasoactive intestinal peptide (VIP) on mast cell invasion/degranulation in testicular interstitium of immobilized + cold stressed and beta–endorphin–treated rats. Tunçel N, et al. **Peptides** 1996;17(5):817–24
Involvement of beta–endorphin in the modulation of paw inflammatory edema in the rat. Sacerdote P, et al.
Regul Pept 1996 Jul 5;63(2–3):79–83
[The role of heart autonomic nerves in the mechanism of antiarrhythmic effect of beta–endorphin during experimental myocardial ischemia] Mikhaĭlova SD, et al. **Biull Eksp Biol Med** 1997 May;123(5):509–11 **(Rus)**
[Differences in the anti–arrhythmia effect of dalargin and beta–endorphin in severe myocardial ischemia during stimulation of the sensorimotor cortex] Mikhaĭlova SD, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):28–31 **(Rus)**

PHYSIOLOGY

Beta–endorphin in the brain. A role in nociception. Bach FW. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 2):133–40 (59 ref.)
Forskolin delays the ethanol–induced desensitization of hypothalamic beta–endorphin neurons in primary cultures. Boyadjieva N, et al. **Alcohol Clin Exp Res** 1997 May; 21(3):477–82
Involvement of beta–endorphin in the preoptic anterior hypothalamus during interleukin–1 beta–induced fever in rats. Xin L, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:324–6
Beta–endorphin and the immune system—possible role in autoimmune diseases. Mørch H, et al. **Autoimmunity** 1995; 21(3):161–71 (96 ref.)
Evidence showing that beta–endorphin regulates cyclic guanosine 3',5'–monophosphate (cGMP) efflux: anatomical and functional support for an interaction between opiates and nitric oxide [published erratum appears in Endocrinology 1997 Jun;138(6):2609] Pu S, et al.
Endocrinology 1997 Apr;138(4):1537–43
Beta–endorphin in the immune system: a role at last? Panerai AE, et al. **Immunol Today** 1997 Jul;18(7):317–9 (32 ref.)
Immunohistochemical detection of progestin receptors in hypothalamic beta–endorphin and substance P neurons of steroid–treated monkeys. Bethea CL, et al.
Neuroendocrinology 1996 Feb;63(2):132–41
Immune regulation in Cushing's syndrome: relationship to hypothalamic–pituitary–adrenal axis hormones. Kronfol Z, et al. **Psychoneuroendocrinology** 1996 Oct;21(7):599–608
[A review of pregnancy–induced analgesia] Iwasaki H, et al. **Masui** 1997 May;46(5):598–606 (62 ref.) (Eng. Abstr.) **(Jpn)**

SECRETION

The involvement of nitric oxide in the secretion of beta–endorphin from the pituitary intermediate lobe of the rat. Crack PJ, et al. **Brain Res** 1997 Jun 27;761(1):113–20
Ascorbic acid augments the adenylyl cyclase–cAMP system mediated POMC mRNA expression and beta–endorphin secretion from hypothalamic neurons in culture. Yang Z, et al. **Brain Res** 1996 Jan 15;706(2):243–8
The 24–hour rhythm of oxytocin and beta–endorphin secretion in human pregnancy. Lindow SW, et al.
Clin Endocrinol (Oxf) 1996 Oct;45(4):443–6
Effects of cytokines on pituitary beta–endorphin and adrenal corticosterone release in vitro. van der Meer MJ, et al. **Cytokine** 1996 Mar;8(3):238–47
Evaluation of beta–endorphin secretion in patients suffering from episodic cluster headache. Franceschini R, et al.
Headache 1996 Nov–Dec;36(10):603–7
The secretory response of hypothalamic beta–endorphin neurons to acute and chronic nicotine treatments and following nicotine withdrawal. Boyadjieva NI, et al.
Life Sci 1997;61(6):PL59–66

THERAPEUTIC USE

Beta–endorphin but not metenkephalin counteracts adenosine–provoked angina pectoris–like pain. Sylvén C, et al. **Neuroreport** 1996 Aug 12;7(12):1982–4

BETA–ENDOTHELIAL GROWTH FACTOR see **ENDOTHELIAL GROWTH FACTORS**

17 BETA–ESTRADIOL see **ESTRADIOL**

BETA–GALACTOSIDASE

ADVERSE EFFECTS

Occupational sensitization to lactase. Muir DC, et al.
Am J Ind Med 1997 May;31(5):570–1

ANALYSIS

Evaluation of cyclohexenoesculetin–beta–D–galactoside and 8–hydroxyquinoline–beta–D–galactoside as substrates for the detection of beta–galactosidase. James AL, et al.
Appl Environ Microbiol 1996 Oct;62(10):3868–70
Dual luminescence–based reporter gene assay for luciferase and beta–galactosidase. Martin CS, et al. **Biotechniques** 1996 Sep;21(3):520–4
An in vitro assay of beta–galactosidase from yeast. Schneider S, et al. **Biotechniques** 1996 Jun;20(6):960–2
Fecal beta–D–galactosidase production and Bifidobacteria are decreased in Crohn's disease. Favier C, et al.
Dig Dis Sci 1997 Apr;42(4):817–22
Capillary–zone electrophoresis in agarose gels using absorption imaging detection. Palm A, et al.
Electrophoresis 1996 Apr;17(4):766–70
A defect in beta–galactosidase of B lymphocytes in the osteopetrotic (op/op) mouse. Yamamoto N, et al.
Immunol Lett 1996 Apr;50(1–2):35–40
A flow cytometric method for the rapid detection of beta–galactosidase transfected cells: an in vitro and in vivo study. Mouawad R, et al. **J Immunol Methods** 1997 May 12;204(1):51–6
Total intestinal lactase and sucrase activities are reduced in aged rats. Lee MF, et al. **J Nutr** 1997 Jul;127(7):1382–7
Quantification of minute levels of beta galactosidase in individual 2– to 16–cell–stage mouse embryos. Forlani S, et al. **Trends Genet** 1996 Dec;12(12):498–500
A sensitive method for analyzing beta–galactosidase reporter gene expression in tissue sections of mouse embryos. Lazik A, et al. **Trends Genet** 1996 Nov;12(11):445–7

ANTAGONISTS & INHIBITORS

A solid–phase enzyme–linked assay for ceramide glycanase using GM1 and a novel beta–galactosidase inhibitor. Miyoshi I, et al. **Anal Biochem** 1996 May 1;236(2):360–3
Larger increases in sensitivity to paracatalytic inactivation than in catalytic competence during experimental evolution of the second beta–galactosidase of Escherichia coli. Calugaru SV, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):117–21
Evaluation of C–(beta–D–galactosyl) and C–(2–deoxy–D–lyxo–hex–1–enopyranosyl) (D–galactal type) derivatives as inhibitors of beta–D–galactosidase from Escherichia coli. Kiss L, et al. **Carbohydr Res** 1996 Sep 23;291:43–52

BIOSYNTHESIS

Development of a pilot–plant fermentation process for the production of yeast lactase. Acevedo F, et al.
Ann N Y Acad Sci 1996 Oct 12;799:559–62
Efficient technique for screening drugs for activity against Trypanosoma cruzi using parasites expressing beta–galactosidase. Buckner FS, et al.
Antimicrob Agents Chemother 1996 Nov;40(11):2592–7
Expression of transgenes in human and rat retinal pigment epithelium in vitro using an adenoviral vector. da Cruz L, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):78–81
Comparison of three nonviral transfection methods for foreign gene expression in early chicken embryos in ovo. Muramatsu T, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):376–80
beta–Galactosidase reporter system in mycobacteria and its application in rapid antimycobacterial drug screening. Srivastava R, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):602–5
The bacteriophage T7 binary system activates transient transgene expression in zebrafish (Danio rerio) embryos. Verri T, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):492–5
Purification, characterization, and expression of rat epididymal beta–D–galactosidase. Hall JC, et al.
Biochem Mol Biol Int 1997 Jul;42(3):443–51
Heterologous Kluyveromyces lactis beta–galactosidase production and release by Saccharomyces cerevisiae osmotic–remedial thermosensitive autolytic mutants. Becerra M, et al. **Biochim Biophys Acta** 1997 Jun 6; 1335(3):235–41
High–efficiency loading, transfection, and fusion of cells by electroporation in two–phase polymer systems. Hui SW, et al. **Biophys J** 1996 Aug;71(2):1123–30
The role of helper lipids in cationic liposome–mediated gene transfer. Hui SW, et al. **Biophys J** 1996 Aug;71(2):590–9
Removal of an inhibitor of marker enzyme activity in artery extracts by chelating agents. Oswald H, et al.
Biotechniques 1997 Jan;22(1):78–81
Transduction of hippocampal CA1 by adenovirus in vivo. Kammesheidt A, et al. **Brain Res** 1996 Oct 14; 736(1–2):297–304
Use of a retroviral vector with an internal opsin promoter to direct gene expression to retinal photoreceptor cells [published erratum appears in Curr Eye Res 1996 Nov;15(11):1148] Kido M, et al. **Curr Eye Res** 1996 Aug; 15(8):833–44
Persistent transgene expression in the hypothalamus following stereotaxic delivery of a recombinant adenovirus: suppression of the immune response with cyclosporin. Geddes BJ, et al. **Endocrinology** 1996 Nov;137(11):5166–9
Bacterial beta–galactosidase and human dystrophin genes are expressed in mouse skeletal muscle fibers after ballistic transfection. Zelenin AV, et al. **FEBS Lett** 1997 Sep 8; 414(2):319–22
Effect of medium components and metabolic inhibitors on beta–galactosidase production and secretion by Penicillium

notatum 1. Fiedurek J, et al. **J Basic Microbiol** 1996; 36(1):27–32

Selective reporter expression in mast cells using a chymase promoter. Liao Y, et al. **J Biol Chem** 1997 Jan 31; 272(5):2969–76

Gene identification using the yeast two-hybrid system. Bai C, et al. **Methods Enzymol** 1997;283:141–56

Factors influencing the efficiency of cationic liposome-mediated intravenous gene delivery. Liu Y, et al. **Nat Biotechnol** 1997 Feb;15(2):167–73

Beta-galactosidase-labelled relay neurons of homotopic olfactory bulb transplants establish proper afferent and efferent synaptic connections with host neurons. Sekerková G, et al. **Neuroscience** 1997 Oct;80(4):973–9

Gene delivery to skeletal muscle results in sustained expression and systemic delivery of a therapeutic protein. Kessler PD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14082–7

Efficient transfer, integration, and sustained long-term expression of the transgene in adult rat brains injected with a lentiviral vector. Naldini L, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11382–8

Cloning and expression of Kluyveromyces fragilis LAC4 gene. Huo K, et al. **Sci China B** 1995 Nov;38(11):1332–40

Demonstration of equine herpesvirus-1 neuronal latency in murine olfactory bulbs using a novel combined in situ PCR and protein synthesis method. Marshall KR, et al. **Virology** 1997 Mar 3;229(1):279–82

CHEMISTRY

Measure of transient transfection efficiency using beta-galactosidase protein. Howcroft TK, et al. **Anal Biochem** 1997 Jan 1;244(1):22–7

High pressure and temperature. How to deactivate enzymes in two different ways. Cavaille D, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:212–7

Structure-reactivity relationships for beta-galactosidase (Escherichia coli, lac Z). 3. Evidence that Glu-461 participates in Brønsted acid-base catalysis of beta-D-galactopyranosyl group transfer. Richard JP, et al. **Biochemistry** 1996 Sep 24;35(38):12377–86

Structure-reactivity relationships for beta-galactosidase (Escherichia coli, lac Z). 4. Mechanism for reaction of nucleophiles with the galactosyl-enzyme intermediates of E461G and E461Q beta-galactosidases. Richard JP, et al. **Biochemistry** 1996 Sep 24;35(38):12387–401

A novel Arthrobacter beta-galactosidase with homology to eucaryotic beta-galactosidases. Gutshall K, et al. **J Bacteriol** 1997 May;179(9):3064–7

Fine substrate specificities of four exo-type cellulases produced by Aspergillus niger, Trichoderma reesei, and Irpex lacteus on (1-->3), (1-->4)-beta-D-glucans and xyloglucan. Amano Y, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1123–9

Convenient synthesis of beta-(1-->3)-galactosyl disaccharide alpha-glycoside and its analogs as mimic units of mucin-type carbohydrate. Murata T, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):851–5

Identification of Glu-268 as the catalytic nucleophile of human lysosomal beta-galactosidase precursor by mass spectrometry. McCarter JD, et al. **J Biol Chem** 1997 Jan 3;272(1):396–400

CD44 substituted with heparan sulfate and endo-beta-galactosidase-sensitive oligosaccharides: a major proteoglycan in adult human epidermis. Tuhkanen AL, et al. **J Invest Dermatol** 1997 Aug;109(2):213–8

Crystal structures and mechanism of 6-phospho-beta-galactosidase from Lactococcus lactis. Wiesmann C, et al. **J Mol Biol** 1997 Jun 27;269(5):851–60

Quaternary structure, Mg2+ interactions, and some kinetic properties of the beta-galactosidase from Thermoanaerobacterium thermosulfurigenes EM1. Huber RE, et al. **J Protein Chem** 1996 Oct;15(7):621–9

Monitoring protein-protein interactions in intact eukaryotic cells by beta-galactosidase complementation. Rossi F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8405–10

Topology of eukaryotic multispanning transmembrane proteins: use of LacZ fusions for the localization of cytoplasmic domains in COS.M6 cells. Schülein R, et al. **Protein Eng** 1997 Jun;10(6):707–13

Influence of the GroE molecular chaperone machine on the in vitro refolding of Escherichia coli beta-galactosidase. Ayling A, et al. **Protein Sci** 1996 Mar;5(3):478–87

DEFICIENCY

Early-infantile galactosialidosis: clinical, biochemical, and molecular observations in a new patient. Zammarchi E, et al. **Am J Med Genet** 1996 Aug 23;64(3):453–8

Neurological manifestations of knockout mice with beta-galactosidase deficiency. Matsuda J, et al. **Brain Dev** 1997 Jan;19(1):19–20

Digestion and tolerance of lactose from yoghurt and different semi-solid fermented dairy products containing Lactobacillus acidophilus and bifidobacteria in lactose maldigesters—is bacterial lactase important? Vesa TH, et al. **Eur J Clin Nutr** 1996 Nov;50(11):730–3

Nonimmune hydrops fetalis with galactosialidosis: consequences for family planning. Haverkamp F, et al. **Fetal Diagn Ther** 1996 Mar-Apr;11(2):114–9

Evaluation of differential disaccharide excretion in urine for non-invasive investigation of altered intestinal disaccharidase activity caused by alpha-glucosidase inhibition, primary hypolactasia, and coeliac disease. Bjarnason I, et al. **Gut** 1996 Sep;39(3):374–81

Generalized CNS disease and massive GM1-ganglioside accumulation in mice defective in lysosomal acid beta-galactosidase. Hahn CN, et al. **Hum Mol Genet** 1997 Feb;6(2):205–11

Hypolactasia and metabolic changes in post-menopausal women. Russo F, et al. **Maturitas** 1997 Apr;26(3):193–202

Case Records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 23–1997. A premature newborn infant with congenital ascites [clinical conference] **N Engl J Med** 1997 Jul 24;337(4):260–7

Cathepsin A deficiency in galactosialidosis: studies of patients and carriers in 16 families. Kleijer WJ, et al. **Pediatr Res** 1996 Jun;39(6):1067–71

[Milk intolerance] Nakamura T. **Nippon Naika Gakkai Zasshi** 1996 Jul 10;85(7):1079–84 (5 ref.) **(Jpn)**

[Two siblings of galactosialidosis with marked progression of cardiac involvement during 10 years] Hisahara S, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):562–5 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Secondary lactase deficiency in children and its epidemiologic implications] Vega Franco L. **Rev Invest Clin** 1996 Nov;48 Suppl:33–43 (50 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSTIC USE

Enzymatic measurement of sweat sodium and chloride [letter; comment] Taylor RP, et al. **Ann Clin Biochem** 1997 Mar; 34 (Pt 2):211. Comment on: Ann Clin Biochem 1996 Sep;33 (Pt 5):459–61.

DRUG EFFECTS

Oral insulinlike growth factor-I stimulates intestinal enzyme maturation in newborn rats. Ma L, et al. **Life Sci** 1997; 61(1):51–8

GENETICS

Mechanism of increasing dystrophin-positive myofibers by myoblast transplantation: study using mdx/beta-galactosidase transgenic mice. Kinoshita I, et al. **Acta Neuropathol (Berl)** 1996;91(5):489–93

Comparison of the canine and human acid beta-galactosidase gene. Ahern-Rindell AJ, et al. **Am J Med Genet** 1996 May 17;63(2):340–5

Experimental bronchiolitis obliterans induced by in vivo HVJ-liposome-mediated endothelin-1 gene transfer [see comments] Takeda S, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1562–7. Comment in: Ann Thorac Surg 1997 Jun;63(6):1527–8.

Identification of homologues of the mammalian intestinal lactase gene in non-mammals (birds and molluscs). Freund JN, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):491–8

Adenovirus-mediated gene transfer to rat testis in vivo. Blanchard KT, et al. **Biol Reprod** 1997 Feb;56(2):495–500

The role of helper lipids in cationic liposome-mediated gene transfer. Hui SW, et al. **Biophys J** 1996 Aug;71(2):590–9

Family of plasmid vectors for the expression of beta-galactosidase fusion proteins in eukaryotic cells. Ivics Z, et al. **Biotechniques** 1997 Feb;22(2):254–6, 258

Neurological manifestations of knockout mice with beta-galactosidase deficiency. Matsuda J, et al. **Brain Dev** 1997 Jan;19(1):19–20

Non-virally mediated gene transfer into human central nervous system precursor cells. Cattaneo E, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):161–6

Efficient adenoviral vector-directed expression of a foreign gene to neurons and sustentacular cells in the mouse olfactory neuroepithelium. Holtmaat AJ, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):148–56

Region-specific central nervous system expression and axotomy-induced regulation in sympathetic neurons of a VIP-beta-galactosidase fusion gene in transgenic mice. Tsuruda LM, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):181–92

In vitro preselection of gene-trapped embryonic stem cell clones for characterizing novel developmentally regulated genes in the mouse. Baker RK, et al. **Dev Biol** 1997 May 15;185(2):201–14

Expression of the mouse fibronectin gene and fibronectin-lacZ transgenes during somitogenesis. Perkinson RA, et al. **Dev Dyn** 1997 Feb;208(2):244–54

Gene targeting the myf-5 locus with nlacZ reveals expression of this myogenic factor in mature skeletal muscle fibres as well as early embryonic muscle. Tajbakhsh S, et al. **Dev Dyn** 1996 Jul;206(3):291–300

Green fluorescent protein/beta-galactosidase double reporters for visualizing Drosophila gene expression patterns. Timmons L, et al. **Dev Genet** 1997;20(4):338–47

Cloning, DNA sequence, and regulation of expression of a gene encoding beta-galactosidase from Lactococcus lactis. Griffin HG, et al. **DNA Seq** 1996;6(6):337–46

Organ variation in the mutagenicity of ethylnitrosourea in Muta mouse: results of the collaborative study on the transgenic mutation assay by JEMS/MMS. The Collaborative Study Group for the Transgenic Mouse Mutation Assay Mammalian Mutagenesis Study Group of the Environmental Mutagen Society of Japan. **Environ Mol Mutagen** 1996;28(4):363–75

A test for neutrality of mutations of the lacZ transgene. Cosentino L, et al. **Environ Mol Mutagen** 1996;28(4):313–6

Temporal and molecular characteristics of lacZ mutations in somatic tissues of transgenic mice. Douglas GR, et al. **Environ Mol Mutagen** 1996;28(4):317–24

In vitro alpha-complementation of beta-galactosidase on a bacteriophage surface. Dunn IS. **Eur J Biochem** 1996 Dec 15;242(3):720–6

Characterisation of a human homologue of a yeast cell division cycle gene, MCM6, located adjacent to the 5' end of the lactase gene on chromosome 2q21. Harvey CB, et al. **FEBS Lett** 1996 Dec 2;398(2-3):135–40

Optimisation of the BgaB reporter system: determination of transcriptional regulation of stress responsive genes in Bacillus subtilis. Schrögel O, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):237–43

Integrative vector for constructing single-copy translational fusions between regulatory regions of Bacillus subtilis and the bgaB reporter gene encoding a heat-stable beta-galactosidase. Stoss O, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):49–54

Effects of malnutrition on expression and activity of lactase in children. Nichols BL, et al. **Gastroenterology** 1997 Mar; 112(3):742–51

Naked DNA delivered intraportally expresses efficiently in hepatocytes. Budker V, et al. **Gene Ther** 1996 Jul;3(7):593–8

Gene delivery to the central and peripheral nervous systems of mice using HSV1 ICP34.5 deletion mutant vectors. Coffin RS, et al. **Gene Ther** 1996 Oct;3(10):886–91

Spatial-temporal patterns of gene expression in mouse skeletal muscle after injection of lacZ plasmid DNA. Doh SG, et al. **Gene Ther** 1997 Jul;4(7):648–63

Targeting cell-specific gene expression with an adenovirus vector containing the lacZ gene under the control of the CFTR promoter. Imler JL, et al. **Gene Ther** 1996 Jan; 3(1):49–58

Development of in vivo gene therapy for hearing disorders: introduction of adeno-associated virus into the cochlea of the guinea pig. Lalwani AK, et al. **Gene Ther** 1996 Jul; 3(7):588–92

On the specificity of adaptive mutations. Hall BG. **Genetics** 1997 Jan;145(1):39–44

Alterations in enzymatic functions in hepatocytes and hepatocellular carcinomas from Ras-transduced livers resemble the effects of insulin. Pearline RV, et al. **Hepatology** 1996 Oct;24(4):838–48

LacZ and interleukin-3 expression in vivo after retroviral transduction of marrow-derived human osteogenic mesenchymal progenitors. Allay JA, et al. **Hum Gene Ther** 1997 Aug 10;8(12):1417–27

Systematic analysis of repeated gene delivery into animal lungs with a recombinant adenovirus vector. Dong JY, et al. **Hum Gene Ther** 1996 Feb 10;7(3):319–31

In-vivo gene transfer to the uterine endometrium. Charnock-Jones DS, et al. **Hum Reprod** 1997 Jan; 12(1):17–20

Inhibition of IgE antibody formation by plasmid DNA immunization is mediated by both CD4+ and CD8+ T cells. Lee DJ, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):227–30

Isolation and characterization of the lacA gene encoding beta-galactosidase in Bacillus subtilis and a regulator gene, lacR. Daniel RA, et al. **J Bacteriol** 1997 Sep;179(17):5636–8

Transmembrane topology of alpha- and beta-subunits of Na+,K+-ATPase derived from beta-galactosidase fusion proteins expressed in yeast. Fiedler B, et al. **J Biol Chem** 1996 Nov 15;271(46):29312–20

Circadian cycling of a PERIOD-beta-galactosidase fusion protein in Drosophila: evidence for cyclical degradation. Dembinska ME, et al. **J Biol Rhythms** 1997 Apr; 12(2):157–72

beta-Galactosidase gene mutations in patients with slowly progressive GM1 gangliosidosis. Kaye EM, et al. **J Child Neurol** 1997 Jun;12(4):242–7 (19 ref.)

Comparison of the human versus murine cytomegalovirus immediate early gene promoters for transgene expression by adenoviral vectors. Addison CL, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1653–61

A highly sensitive cytotoxicity assay based on the release of reporter enzymes, from stably transfected cell lines. Schäfer H, et al. **J Immunol Methods** 1997 May 12; 204(1):89–98

Reported translational bypass in a trpR'-lacZ' fusion is accounted for by unusual initiation and +1 frameshifting. Wills NM, et al. **J Mol Biol** 1997 Aug 29;271(4):491–8

Fusigenic liposome-mediated DNA transfer into cardiac myocytes. Ellison KE, et al. **J Mol Cell Cardiol** 1996 Jul; 28(7):1385–99

Phase I study of a recombinant adenovirus-mediated gene transfer in lung cancer patients. Tursz T, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1857–63

Estrogen and stress interact to regulate the hypothalamic expression of a human proenkephalin promoter-beta-galactosidase fusion gene in a site-specific and sex-specific manner. Priest CA, et al. **J Neuroendocrinol** 1997 Apr;9(4):317–26

Dendritic morphology of cardiac related medullary neurons defined by circuit-specific infection by a recombinant pseudorabies virus expressing beta-galactosidase. Standish A, et al. **J Neurovirol** 1995 Dec;1(5-6):359–68

In vivo gene transfer into rat arterial walls with novel adeno-associated virus vectors. Arnold TE, et al.

J Vasc Surg 1997 Feb;25(2):347-55

Effect of the E4 region on the persistence of transgene expression from adenovirus vectors. Armentano D, et al. **J Virol** 1997 Mar;71(3):2408-16

The expression of a reporter protein, beta-galactosidase, is preserved during maturation and aging in some cells of the adult Drosophila melanogaster. Helfand SL, et al. **Mech Dev** 1996 Mar;55(1):45-51

Detection of beta-galactosidase and beta-glucuronidase using chemiluminescent reporter gene assays. Olesen CE, et al. **Methods Mol Biol** 1997;63:61-70

Transcriptional regulation of the Kluyveromyces lactis beta-galactosidase gene. Lacy LR, et al. **Mol Cell Biol** 1981 Jul;1(7):629-34

Isolation and characterization of a laccase gene from Podospora anserina. Fernández-Larrea J, et al. **Mol Gen Genet** 1996 Oct 16;252(5):539-51

Different structures of selected and unselected araB-lacZ fusions. Maenhaut-Michel G, et al. **Mol Microbiol** 1997 Mar;23(6):1133-45

In Saccharomyces cerevisiae a short amino acid sequence facilitates excretion in the growth medium of periplasmic proteins. Venturini M, et al. **Mol Microbiol** 1997 Mar; 23(5):997-1007

Comparison of the molecular characteristics of lacZ transgenic mouse mutations detected by visual and positive selection. Jiao J, et al. **Mutat Res** 1996 Nov 11;372(1):141-5

Adenovirus mediated gene transfer in organotypic brain slices. Ridoux V, et al. **Neurobiol Dis** 1995 Feb;2(1):49-54

Disruption of overlapping transcripts in the ROSA beta geo 26 gene trap strain leads to widespread expression of beta-galactosidase in mouse embryos and hematopoietic cells. Zambrowicz BP, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3789-94

Directed evolution of a fucosidase from a galactosidase by DNA shuffling and screening. Zhang JH, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4504-9

An improved method to detect beta-galactosidase activity in transgenic mice: a post-staining procedure on paraffin embedded tissue sections. Avé P, et al. **Transgenic Res** 1997 Jan;6(1):37-40

Methods and reagents. Reducing background colonies with positive selection vectors. Hengen PN. **Trends Biochem Sci** 1997 Mar;22(3):105-6

A highly sensitive and non-lethal beta-galactosidase plate assay for yeast. Duttweiler HM. **Trends Genet** 1996 Sep; 12(9):340-1

A sensitive method for analyzing beta-galactosidase reporter gene expression in tissue sections of mouse embryos. Lazik A, et al. **Trends Genet** 1996 Nov;12(11):445-7

[The cloning and expression of the beta-galactosidase gene of Candida pseudotropicalis yeasts in Escherichia coli cells] Tretiak KA, et al. **Mikrobiol Z** 1997 Jan-Feb;59(1):11-7 (Eng. Abstr.) **(Rus)**

[Cloning and expression of the gene for thermostable beta-galactosidase from Thermoanaerobacter ethanolicus in Escherichia coli: purification and properties of the product] Fokina NA, et al. **Mol Gen Mikrobiol Virusol** 1997;(2):34-6 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Antigenicity of a viral peptide displayed on beta-galactosidase fusion proteins is influenced by the presence of the homologous partner protein. Corchero JL, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):77-82

Genetic control of antibody responses induced by recombinant Mycobacterium bovis BCG expressing a foreign antigen. Lagranderie M, et al. **Infect Immun** 1997 Aug;65(8):3057-64

Influence of gene-modified (IL-7, IL-4, and B7) tumor cell vaccines on tumor antigen presentation. Cayeux S, et al. **J Immunol** 1997 Mar 15;158(6):2834-41

Identification of a Kb-restricted CTL epitope of beta-galactosidase: potential use in development of immunization protocols for "self" antigens. Overwijk WW, et al. **Methods** 1997 Jun;12(2):117-23

ISOLATION & PURIFICATION

Purification and characterization of beta-galactosidase from rat epididymal fluid. Sosa MA, et al. **Andrologia** 1996 Jul-Aug;28(4):217-21

Limitations of highly sensitive enzymatic presence-absence tests for detection of waterborne coliforms and Escherichia coli. Van Poucke SO, et al. **Appl Environ Microbiol** 1997 Feb;63(2):771-4

Purification and analysis of an extremely halophilic beta-galactosidase from Haloferax alicantei. Holmes ML, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):276-86

Reversible and irreversible immobilization of enzymes on Graphite Fibrils. Dong L, et al. **J Mol Recognit** 1996 Sep-Dec;9(5-6):383-8

Purification and properties of beta-galactosidase from Aspergillus nidulans. Díaz M, et al. **Microbiologia** 1996 Dec;12(4):585-92

METABOLISM

Sucrase-isomaltase and other brush border glycosidases in colorectal tumors. Lojda Z, et al. **Acta Histochem** 1996 Jul;98(3):285-93

A capillary electrophoretic study on the specificity of beta-galactosidases from Aspergillus oryzae, Escherichia coli, Streptococcus pneumoniae, and Canavalia ensiformis (jack bean). Zeleny R, et al. **Anal Biochem** 1997 Mar 1; 246(1):96-101

Limitations of nls beta-galactosidase as a marker for studying myogenic lineage or the efficacy of myoblast transfer. Yang J, et al. **Anat Rec** 1997 May;248(1):40-50

Location of the beta-galactosidase of the yeast Kluyveromyces marxianus var. marxianus ATCC 10022. Bacci Júnior M, et al. **Antonie Van Leeuwenhoek** 1996 May; 69(4):357-61

Proteolytic processing of human lactase-phlorizin hydrolase is a two-step event: identification of the cleavage sites. Wüthrich M, et al. **Arch Biochem Biophys** 1996 Dec 1; 336(1):27-34

The activation of beta-galactosidase (E. coli) by Mg(2+) at lower pH values. Martinez-Bilbao M, et al. **Biochem Cell Biol** 1996;74(2):295-8

Lactase and sucrase-isomaltase gene expression during Caco-2 cell differentiation. Van Beers EH, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):769-75

Monomer-dimer equilibrium of uncomplemented M15 beta-galactosidase from Escherichia coli. Gallagher CN, et al. **Biochemistry** 1997 Feb 11;36(6):1281-6

Structure-reactivity relationships for beta-galactosidase (Escherichia coli, lac Z). 4. Mechanism for reaction of nucleophiles with the galactosyl-enzyme intermediates of E461G and E461Q beta-galactosidases. Richard JP, et al. **Biochemistry** 1996 Sep 24;35(38):12387-401

Structure-reactivity relationships for beta-galactosidase (Escherichia coli, lac Z). 3. Evidence that Glu-461 participates in Brønsted acid-base catalysis of beta-D-galactopyranosyl group transfer. Richard JP, et al. **Biochemistry** 1996 Sep 24;35(38):12377-86

Influence of gelatin matrices cross-linked with transglutaminase on the properties of an enclosed bioactive material using beta-galactosidase as model system. Fuchsbauer HL, et al. **Biomaterials** 1996 Aug;17(15):1481-8

Coated reactive carriers based on copolymers of 1-vinyl-2-pyrrolidone and maleic anhydride for immobilization of enzymes. Zaharieva EI, et al. **Biomaterials** 1996 Aug;17(16):1609-13

Dietary control of lactase expression in the weaning rat. Sakuma K, et al. **Biomed Environ Sci** 1996 Sep;9(2-3):181-4

Molecular form and subcellular distribution of acid beta-galactosidase in fibroblasts from patients with GM1 gangliosidosis, Morquio B disease and galactosialidosis. Takiyama N, et al. **Brain Dev** 1997 Mar;19(2):126-30

Invasive pattern of lac-Z-transfected human glioblastoma cells in nude mice brain. Go Y, et al. **Cancer Lett** 1996 Dec 20;110(1-2):225-31

Transcriptional targeting of recombinant adenoviruses to human and murine melanoma cells. Siders WM, et al. **Cancer Res** 1996 Dec 15;56(24):5638-46

A direct enzymatic synthesis of beta-D-galactopyranosyl-D-xylopyranosides and their use to evaluate rat intestinal lactase activity in vivo. Aragón JJ, et al. **Carbohydr Res** 1996 Sep 2;290(2):209-16

Transglycosylation in a two-phase aqueous-organic system with catalysis by a lipid-coated beta-D-galactosidase. Mori T, et al. **Carbohydr Res** 1997 Feb 20;298(1-2):65-73

The synthesis of galactopyranosyl derivatives with beta-galactosidases of different origins. Yoon JH, et al. **Carbohydr Res** 1996 Oct 4;292:153-63

Wildtype p53 is required for heat shock and ultraviolet light enhanced repair of a UV-damaged reporter gene. McKay BC, et al. **Carcinogenesis** 1997 Feb;18(2):245-9

Incorporation of beta-galactosidase-expressing endothelial cells into the skeletal muscle microvascular bed of mice. Schwärzler C, et al. **Cell Transplant** 1997 Jan-Feb;6(1):9-15

Verapamil inhibition of enzymatic product efflux leads to improved detection of beta-galactosidase activity in lacZ-transfected cells. Poot M, et al. **Cytometry** 1997 May 1;28(1):36-41

Lactase persistence versus decline in human adults: multifactorial events are involved in down-regulation after weaning. Rossi M, et al. **Gastroenterology** 1997 May; 112(5):1506-14 (53 ref.)

In vivo characterization of endogenous proliferating cells in adult rat subcortical white matter. Gensert JM, et al. **Glia** 1996 May;17(1):39-51

Aryl beta-galactosidase from Sclerotium rolfsii: physiological and biochemical studies. Bhosale JH, et al. **Hindustan Antibiot Bull** 1995 Feb-Nov;37(1-4):25-36

A defect in inducible beta-galactosidase of B lymphocytes in the osteopetrotic (mi/mi) mouse. Yamamoto N, et al. **Immunology** 1996 Aug;88(4):604-10

Dynamics of gene transfer to retinal pigment epithelium. da Cruz L, et al. **Invest Ophthalmol Vis Sci** 1996 Nov; 37(12):2447-54

In vivo gene transfer into the retina mediated by a novel liposome system. Hangai M, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2678-85

Effect of seawater on Escherichia coli beta-galactosidase activity. Pommepuy M, et al. **J Appl Bacteriol** 1996 Aug; 81(2):174-80

Association of N-acetylgalactosamine-6-sulfate sulfatase with the multienzyme lysosomal complex of beta-galactosidase, cathepsin A, and neuraminidase. Possible implication for intralysosomal catabolism of keratan sulfate. Pshezhetsky AV, et al. **J Biol Chem** 1996 Nov 8;271(45):28359-65

Usefulness of urinary galactose for diagnosis of hypolactasia. Alvarez-Coca J, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):79-80

Visualization of beta-galactosidase by enzyme and immunohistochemistry in the olfactory bulb of transgenic mice carrying the LacZ transgene. Sekerková G, et al. **J Histochem Cytochem** 1997 Aug;45(8):1147-55

Lactase decline in weaning rats is regulated at the transcriptional level and not caused by termination of milk ingestion. Motohashi Y, et al. **J Nutr** 1997 Sep; 127(9):1737-43

Quaternary structure, Mg2+ interactions, and some kinetic properties of the beta-galactosidase from Thermoanaerobacterium thermosulfurigenes EM1. Huber RE, et al. **J Protein Chem** 1996 Oct;15(7):621-9

Coronary heart disease in Africa [letter; comment] Segall JJ. **J R Soc Med** 1997 Apr;90(4):235. Comment on: J R Soc Med 1997 Jan;90(1):23-7.

Histochemical and fluorochrome-based detection of beta-galactosidase. Sullivan R, et al. **Methods Mol Biol** 1997;63:229-46

Localization of ligand-binding domains of human corticotropin-releasing factor receptor: a chimeric receptor approach. Liaw CW, et al. **Mol Endocrinol** 1997 Jun; 11(7):980-5

Protein folding in the cytoplasm of Escherichia coli: requirements for the DnaK-DnaJ-GrpE and GroEL-GroES molecular chaperone machines. Thomas JG, et al. **Mol Microbiol** 1996 Sep;21(6):1185-96

In Saccharomyces cerevisiae a short amino acid sequence facilitates excretion in the growth medium of periplasmic proteins. Venturini M, et al. **Mol Microbiol** 1997 Mar; 23(5):997-1007

Influence of the GroE molecular chaperone machine on the in vitro refolding of Escherichia coli beta-galactosidase. Ayling A, et al. **Protein Sci** 1996 Mar;5(3):478-87

An improved method to detect beta-galactosidase activity in transgenic mice: a post-staining procedure on paraffin embedded tissue sections. Avé P, et al. **Transgenic Res** 1997 Jan;6(1):37-40

A highly sensitive and non-lethal beta-galactosidase plate assay for yeast. Duttweiler HM. **Trends Genet** 1996 Sep; 12(9):340-1

A sensitive, quick and semi-quantitative LacZ assay for the two-hybrid system. Essers L, et al. **Trends Genet** 1996 Nov; 12(11):449-50

[Lactose absorption and tolerance to different types of yogurts in adults with hypolactasia] Galvão LC, et al. **Arq Gastroenterol** 1996 Jan-Mar;33(1):10-6 (Eng. Abstr.) **(Por)**

[Uses of microbial beta-galactosidases to reduce lactose content in milk and dairy products] Garcia-Garibay M, et al. **Rev Invest Clin** 1996 Nov;48 Suppl:51-61 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

[Use of enzyme substitutes in hypolactasia] Valenkevich LN, et al. **Klin Med (Mosk)** 1996;74(8):46-8 (Eng. Abstr.) **(Rus)**

URINE

[Urinary enzymes in insulin-dependent diabetes mellitus] Platonova LV, et al. **Vopr Med Khim** 1996 Jan-Mar; 42(1):70-6 (Eng. Abstr.) **(Rus)**

BETA-GLOBIN see **GLOBIN**

BETA-GLOBULINS

International Colloquium on beta-trace. Osaka, Japan, November 17, 1995. Abstracts. **Prostaglandins** 1996 Apr; 51(4):275-306

ANALYSIS

Molecular characterization of beta-trace protein in human serum and urine: a potential diagnostic marker for renal diseases. Hoffmann A, et al. **Glycobiology** 1997 Jun; 7(4):499-506

CEREBROSPINAL FLUID

Capillary electrophoretic analyses of beta-trace protein and other low molecular weight proteins in cerebrospinal fluid from patients with central nervous system diseases. Hiraoka A, et al. **J Pharm Biomed Anal** 1997 Jun;15(9-10):1257-63

CHEMISTRY

Constitutive secretion of beta-trace protein by cultivated porcine choroid plexus epithelial cells: elucidation of its complete amino acid and cDNA sequences. Hoffmann A, et al. **J Cell Physiol** 1996 Nov;169(2):235-41

GENETICS

Beta-globin gene haplotype in Hb SC disease. Steinberg MH, et al. **Am J Hematol** 1996 Jul;52(3):189-91

Genomic imprinting and the differential roles of parental genomes in brain development. Keverne EB, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):91-100

Developmental expression of murine Beta-trace in embryos and adult animals suggests a function in maturation and maintenance of blood-tissue barriers. Hoffmann A, et al. **Dev Dyn** 1996 Nov;207(3):332-43

BETA-GLOBULINS

Beta-trace gene expression is regulated by a core promoter and a distal thyroid hormone response element. White DM, et al. **J Biol Chem** 1997 May 30;272(22):14387-93

PHYSIOLOGY

Prostaglandin D synthase (beta-trace protein): a molecular clock to trace the origin of REM sleep? Sri Kantha S. **Med Hypotheses** 1997 May;48(5):411-2 (21 ref.)

BETA-GLUCOSIDASE

ANALYSIS

Characterization of linamarase of latex and its localization in petioles in cassava. Elias M, et al. **Arch Biochem Biophys** 1997 May 15;341(2):222-8

Purification and characterization of beta-glucosidase from Bacteroides JY-6, a human intestinal bacterium. Kim DH, et al. **Biol Pharm Bull** 1996 Sep;19(9):1121-5

Adaptation of a beta-1,3-glucanase assay to microplate format. Zheng Y, et al. **Biotechniques** 1997 May;22(5):922-6

Note: cyclohexenoesculetin-beta-D-glucoside: a new substrate for the detection of bacterial beta-D-glucosidase. James AL, et al. **J Appl Microbiol** 1997 Apr;82(4):532-6

ANTAGONISTS & INHIBITORS

[Correction with cordaron of changes in beta-glucosidase activity induced by toxic effect of strophanthin K and simulated heart decompensation] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):645-7 **(Rus)**

BIOSYNTHESIS

Synthesis of isopropyl-1-thio-beta-D-glucopyranoside (IPTGlc), an inducer of Aspergillus niger B1 beta-glucosidase production. Birk R, et al. **Appl Biochem Biotechnol** 1997 Apr;66(1):25-30

A sennoside-hydrolyzing beta-glucosidase from Bifidobacterium sp. strain SEN is inducible. Yang L, et al. **Biol Pharm Bull** 1996 May;19(5):701-4

A class IV chitinase is highly expressed in grape berries during ripening. Robinson SP, et al. **Plant Physiol** 1997 Jul;114(3):771-8

BLOOD

Clinical and enzyme studies in Gaucher disease. Kaur M, et al. **Indian Pediatr** 1996 Sep;33(9):735-8

CHEMISTRY

Primary structure of the cytosolic beta-glucosidase of guinea pig liver. Hays WS, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):829-37

Prediction and Fourier-transform infrared-spectroscopy estimation of the secondary structure of a recombinant beta-glucosidase from Streptomyces sp. (ATCC 11238). Perez-Pons JA, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):791-4

Purification and characterization of three extracellular (1-->3)-beta-D-glucan glucohydrolases from the filamentous fungus Acremonium persicinum. Pitson SM, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):733-41

3'-flanking region of a family 1 beta-glucosidase gene [letter] Rojas A, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):693-4

Structure of the N-terminal cellulose-binding domain of Cellulomonas fimi CenC determined by nuclear magnetic resonance spectroscopy. Johnson PE, et al. **Biochemistry** 1996 Nov 12;35(45):14381-94

Interaction of polysaccharides with the N-terminal cellulose-binding domain of Cellulomonas fimi CenC. 1. Binding specificity and calorimetric analysis. Tomme P, et al. **Biochemistry** 1996 Nov 5;35(44):13885-94

Subsite structure of the beta-glucosidase from Aspergillus niger, evaluated by steady-state kinetics with cello-oligosaccharides as substrates. Yazaki T, et al. **Carbohydr Res** 1997 Feb 20;298(1-2):51-7

Multitryptophan-fluorescence-emission decay of beta-glycosidase from the extremely thermophilic archaeon Sulfolobus solfataricus. Bismuto E, et al. **Eur J Biochem** 1997 Feb 15;244(1):53-8

The stability of extracellular beta-glucosidase from Aspergillus niger is significantly enhanced by non-covalently attached polysaccharides. Rashid MH, et al. **Folia Microbiol (Praha)** 1996;41(4):341-6

Assignment of sweet almond beta-glucosidase as a family 1 glycosidase and identification of its active site nucleophile. He S, et al. **J Biol Chem** 1997 Oct 3; 272(40):24864-7

Functional and structural properties of the homogeneous beta-glycosidase from the extreme thermoacidophilic archaeon sulfolobus solfataricus expressed in Saccharomyces cerevisiae. D'Auria S, et al. **Protein Expr Purif** 1996 May;7(3):299-308

GENETICS

3'-flanking region of a family 1 beta-glucosidase gene [letter] Rojas A, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):693-4

Mechanistic consequences of mutation of active site carboxylates in a retaining beta-1,4-glycanase from Cellulomonas fimi. MacLeod AM, et al. **Biochemistry** 1996 Oct 8;35(40):13165-72

Expression and secretion of the Candida wickerhamii extracellular beta-glucosidase gene, bglB, in Saccharomyces cerevisiae. Skory CD, et al. **Curr Genet** 1996 Nov;30(5):417-22

Cloning and expression of a beta-1,4-endoglucanase gene from Cellulomonas sp. CelB7 in Escherichia coli; purification and characterization of the recombinant enzyme. Fülöp L, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):355-60

Pathogenesis-related functions of plant beta-1,3-glucanases investigated by antisense transformation--a review. Beffa R, et al. **Gene** 1996 Nov 7;179(1):97-103 (50 ref.)

Cloning and sequencing of the cDNA encoding beta-glucosidase 1 from Aspergillus aculeatus. Kawaguchi T, et al. **Gene** 1996 Sep 16;173(2):287-8

Expression and characterization of Pichia etchellsii beta-glucosidase in Escherichia coli. Pandey M, et al. **Gene** 1997 Apr 29;190(1):45-51

Identification and expression of acid beta-glucosidase mutations causing severe type 1 and neurologic type 2 Gaucher disease in non-Jewish patients. Grace ME, et al. **J Clin Invest** 1997 May 15;99(10):2530-7

Structure of the Clostridium stercorarium gene celY encoding the exo-1,4-beta-glucanase Avicelase II. Bronnenmeier K, et al. **Microbiology** 1997 Mar;143 (Pt 3):891-8

Identification of a salicylic acid-responsive element in the promoter of the tobacco pathogenesis-related beta-1,3-glucanase gene, PR-2d. Shah J, et al. **Plant J** 1996 Dec;10(6):1089-101

Silencing of a beta-1,3-glucanase transgene is overcome during seed formation. Balandin T, et al. **Plant Mol Biol** 1997 May;34(1):125-37

Characterization and expression of chitinase and 1,3-beta-glucanase genes in cotton. Hudspeth RL, et al. **Plant Mol Biol** 1996 Jul;31(4):911-6

A phosphate-starvation inducible beta-glucosidase gene (psr3.2) isolated from Arabidopsis thaliana is a member of a distinct subfamily of the BGA family. Malboobi MA, et al. **Plant Mol Biol** 1997 May;34(1):57-68

cDNA clones encoding 1,3-beta-glucanase and a fimbrin-like cytoskeletal protein are induced by Al toxicity in wheat roots. Cruz-Ortega R, et al. **Plant Physiol** 1997 Aug;114(4):1453-60

IMMUNOLOGY

Preparation of monoclonal antibody against plant extracellular glycoprotein with deglycosylated peptide as antigen. Kurosaki F. **Anal Biochem** 1997 Jan 1;244(1):170-2

ISOLATION & PURIFICATION

Identification and partial characterization of beta-1,3-glucanase from virus-infected cucumber cotyledons. Repka V, et al. **Acta Virol** 1997 Feb;41(1):35-9

The enzymatic hydrolysis of 6-acylamino-4-methylumbelliferyl-beta-D-glucosides: identification of a novel human acid beta-glucosidase. Mikhaylova M, et al. **Biochim Biophys Acta** 1996 Oct 7; 1317(1):71-9

Purification and characterization of a novel sennoside-hydrolyzing beta-glucosidase from Bifidobacterium sp. strain SEN, a human intestinal anaerobe. Yang L, et al. **Biol Pharm Bull** 1996 May; 19(5):705-9

Purification and characterization of a microsomal bile acid beta-glucosidase from human liver. Matern H, et al. **J Biol Chem** 1997 Apr 25;272(17):11261-7

Separation and partial purification of beta-glucosidase and two endoglucanases in Aspergillus niveus. Taj-Aldeen SJ, et al. **Microbiologia** 1996 Mar;12(1):91-8

Purification and antifungal activity of a basic 34 kDa beta-1,3-glucanase from soybean hypocotyls inoculated with Phytophthora sojae f. sp. glycines. Yi SY, et al. **Mol Cells** 1997 Jun 30;7(3):408-13

The effect of different pectic growth substrates on beta-glucosidase in Fusarium oxysporum f. sp. radicis lycopersici: partial purification and characterization. Patiño B, et al. **New Microbiol** 1997 Jul;20(3):241-6

Purification and characterization of wall-bound exo-1,3-beta-D-glucanase from barley (Hordeum vulgare L.) seedlings. Kotake T, et al. **Plant Cell Physiol** 1997 Feb; 38(2):194-200

Sequential precipitation with reversibly soluble insoluble polymers as a bioseparation strategy: purification of beta-glucosidase from Trichoderma longibrachiatum. Agarwal R, et al. **Protein Expr Purif** 1996 May;7(3):294-8

METABOLISM

Purification and characterization of a beta-glucosidase which converts furostanol glycosides to spirostanol glycosides from Costus speciosus. Inoue K, et al. **Adv Exp Med Biol** 1996;404:57-69

Transglycosylation by wild type and mutants of a beta-1,4-glycosidase from Cellulomonas fimi (Cex) for synthesis of oligosaccharides. Nikolova PV, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:19-25

An Aspergillus niger esterase (ferulic acid esterase III) and a recombinant Pseudomonas fluorescens subsp. cellulosa esterase (Xy1D) release a 5-5' ferulic dehydrodimer (diferulic acid) from barley and wheat cell walls. Bartolomé B, et al. **Appl Environ Microbiol** 1997 Jan;63(1):208-12

Purification and characterization of three extracellular (1-->3)-beta-D-glucan glucohydrolases from the filamentous fungus Acremonium persicinum. Pitson SM, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):733-41

Interaction of soluble cellooligosaccharides with the N-terminal cellulose-binding domain of Cellulomonas fimi CenC 2. NMR and ultraviolet absorption spectroscopy. Johnson PE, et al. **Biochemistry** 1996 Nov 5; 35(44):13895-906

Mechanistic consequences of mutation of active site carboxylates in a retaining beta-1,4-glycanase from Cellulomonas fimi. MacLeod AM, et al. **Biochemistry** 1996 Oct 8;35(40):13165-72

Interaction of polysaccharides with the N-terminal cellulose-binding domain of Cellulomonas fimi CenC. 1. Binding specificity and calorimetric analysis. Tomme P, et al. **Biochemistry** 1996 Nov 5;35(44):13885-94

In vivo processing of the precursor of the major exoglucanase by KEX2 endoprotease in the Saccharomyces cerevisiae secretory pathway. Basco RD, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):110-8

The enzymatic hydrolysis of 6-acylamino-4-methylumbelliferyl-beta-D-glucosides: identification of a novel human acid beta-glucosidase. Mikhaylova M, et al. **Biochim Biophys Acta** 1996 Oct 7; 1317(1):71-9

N1-alkyl-D-gluconamidines: are they 'perfect' mimics of the first transition state of glucosidase action? Legler G, et al. **Carbohydr Res** 1996 Oct 4;292:103-15

4-Pentafluoroethylumbelliferyl-beta-D-glucoside as a new fluorogenic substrate for acid beta-D-glucosidase. Tsvetkova IV, et al. **Clin Chim Acta** 1996 Apr 30; 248(2):125-33

Proteolytic inactivation of an extracellular (1-->3)-beta-glucanase from the fungus Acremonium persicinum is associated with growth at neutral or alkaline medium pH. Pitson SM, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):287-93

The stability of extracellular beta-glucosidase from Aspergillus niger is significantly enhanced by non-covalently attached polysaccharides. Rashid MH, et al. **Folia Microbiol (Praha)** 1996;41(4):341-6

Differential patterns of activity displayed by two exo-beta-1,3-glucanases associated with the Aspergillus fumigatus cell wall. Fontaine T, et al. **J Bacteriol** 1997 May;179(10):3154-63

Characterization of cellulase complex of Streptomyces albaduncus. Harchand RK, et al. **J Basic Microbiol** 1997; 37(2):93-103

Comparison of a beta-glucosidase and a beta-mannosidase from the hyperthermophilic archaeon Pyrococcus furiosus. Purification, characterization, gene cloning, and sequence analysis. Bauer MW, et al. **J Biol Chem** 1996 Sep 27; 271(39):23749-55

Assignment of sweet almond beta-glucosidase as a family 1 glycosidase and identification of its active site nucleophile. He S, et al. **J Biol Chem** 1997 Oct 3; 272(40):24864-7

Identification of Glu-330 as the catalytic nucleophile of Candida albicans exo-beta-(1,3)-glucanase. Mackenzie LF, et al. **J Biol Chem** 1997 Feb 7;272(6):3161-7

Effect of saposins A and C on the enzymatic hydrolysis of liposomal glucosylceramide. Vaccaro AM, et al. **J Biol Chem** 1997 Jul 4;272(27):16862-7

Fecal bacterial enzyme activities in infants increase with age and adoption of adult-type diet. Mykkänen H, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):312-6

The effect of different pectic growth substrates on beta-glucosidase in Fusarium oxysporum f. sp. radicis lycopersici: partial purification and characterization. Patiño B, et al. **New Microbiol** 1997 Jul;20(3):241-6

Differential effect of purified spruce chitinases and beta-1,3-glucanases on the activity of elicitors from ectomycorrhizal fungi. Salzer P, et al. **Plant Physiol** 1997 Jul;114(3):957-68

Binding of the cellulose-binding domain of exoglucanase Cex from Cellulomonas fimi to insoluble microcrystalline cellulose is entropically driven. Creagh AL, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12229-34

PHARMACOLOGY

Effects of food intake, soaking time, enzyme and cornflour addition on the digestibility of the diet and performance of broilers given wet food. Yalda AY, et al. **Br Poult Sci** 1996 Sep;37(4):797-807

Effect of beta-glucanase supplementation to hulless barley- or wheat-soybean meal diets on the digestibilities of energy, protein, beta-glucans, and amino acids in young pigs. Li S, et al. **J Anim Sci** 1996 Jul;74(7):1649-56

Cell wall synthesis is a major target of mycoparasitic antagonism by Trichoderma harzianum. Lorito M, et al. **J Bacteriol** 1996 Nov;178(21):6382-5

SECRETION

Expression and secretion of the Candida wickerhamii extracellular beta-glucosidase gene, bglB, in Saccharomyces cerevisiae. Skory CD, et al. **Curr Genet** 1996 Nov;30(5):417-22

THERAPEUTIC USE

Current issues in enzyme therapy for Gaucher disease.

Grabowski GA. **Drugs** 1996 Aug;52(2):159–67 (42 ref.)
[Gaucher's disease: results of enzymatic treatment with beta glucosidase acid] Genovés Terol I, et al. **An Esp Pediatr** 1997 Apr;46(4):406–8 **(Spa)**

BETA 1-GLYCOPROTEIN, PREGNANCY-SPECIFIC see **PREGNANCY-SPECIFIC BETA 1-GLYCOPROTEIN**

BETA-1 GLYCOPROTEIN, TROPHOBLAST-SPECIFIC see **PREGNANCY-SPECIFIC BETA 1-GLYCOPROTEIN**

BETA-HCG see **CHORIONIC GONADOTROPIN, BETA SUBUNIT, HUMAN**

BETA-HEPARIN see **DERMATAN SULFATE**

BETA-HEXOSAMINIDASE see **BETA-N-ACETYLHEXOSAMINIDASE**

3 BETA-HYDROXY-DELTA-5-STEROID DEHYDROGENASE see **PROGESTERONE REDUCTASE**

BETA-HYDROXYACYL DEHYDRATASES see **ENOYL-COA HYDRATASE**

BETA-HYDROXYACYL DEHYDROGENASES see **3-HYDROXYACYL COA DEHYDROGENASES**

3-BETA-HYDROXYSTEROID DEHYDROGENASE see **3-HYDROXYSTEROID DEHYDROGENASES**

20-BETA-HYDROXYSTEROID DEHYDROGENASE see **CORTISONE REDUCTASE**

17 BETA-HYDROXYSTEROID DEHYDROGENASES see **17-HYDROXYSTEROID DEHYDROGENASES**

BETA-HYPOPHAMINE see **VASOPRESSINS**

BETA-1 INTEGRIN SUBUNIT see **ANTIGENS, CD29**

BETA 2 INTEGRIN SUBUNIT see **ANTIGENS, CD18**

BETA-INTERFERON see **INTERFERON-BETA**

BETA-KETOTHIOLASE see **ACETYL COA ACYLTRANSFERASE**

BETA-LACTAM ANTIBIOTICS see **ANTIBIOTICS, LACTAM**

BETA-LACTAM RESISTANCE

Bacterial resistance to carbapenems. Livermore DM. **Adv Exp Med Biol** 1995;390:25–47 (80 ref.)
beta-Lactamase bioassay: a simplified method to determine extended-spectrum beta-lactamases (ESBL) in enterobacteria. Silva-Sánchez J, et al. **Arch Med Res** 1997 Summer;28(2):285–7
The evolution of beta-lactamases. Bush K. **Ciba Found Symp** 1997;207:152–63; discussion 163–6
Outbreak of multiply resistant enterobacteriaceae in an intensive care unit: epidemiology and risk factors for acquisition. Lucet JC, et al. **Clin Infect Dis** 1996 Mar; 22(3):430–6
Evolution and dissemination of beta-lactamases accelerated by generations of beta-lactam antibiotics. Medeiros AA. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S19–45 (243 ref.)
Efficacy of cefepime in the treatment of infections due to multiply resistant Enterobacter species. Sanders WE Jr, et al. **Clin Infect Dis** 1996 Sep;23(3):454–61
Contribution of beta-lactamase production to the resistance of mycobacteria to beta-lactam antibiotics. Quinting B, et al. **FEBS Lett** 1997 Apr 14;406(3):275–8
In-vitro susceptibility of Klebsiella oxytoca strains to 13 beta-lactams in the presence and absence of beta-lactamase inhibitors. Fournier B, et al. **J Antimicrob Chemother** 1996 May;37(5):931–42
Pneumococcal susceptibility to meropenem [letter] Fuchs PC, et al. **J Antimicrob Chemother** 1996 May;37(5):1036–7
Comparative in-vitro activity of cefoperazone/sulbactam and 11 other agents against multidrug resistant Bacteroides fragilis group species. Goldstein EJ, et al. **J Antimicrob Chemother** 1996 Oct;38(4):733–7
Antibiotic resistance and production of extended-spectrum beta-lactamases amongst Klebsiella spp. from intensive care units in Europe. Livermore DM, et al. **J Antimicrob Chemother** 1996 Sep;38(3):409–24
In-vitro activity of carbapenem antibiotics against beta-lactam susceptible and resistant strains of Burkholderia pseudomallei. Smith MD, et al. **J Antimicrob Chemother** 1996 Mar;37(3):611–5
Biochemical characterization of penicillin-resistant and -sensitive penicillin-binding protein 2x transpeptidase activities of Streptococcus pneumoniae and mechanistic implications in bacterial resistance to beta-lactam antibiotics. Zhao G, et al. **J Bacteriol** 1997 Aug; 179(15):4901–8
Beta-lactam resistance in anaerobic bacteria: a review. Hedberg M, et al. **J Chemother** 1996 Feb;8(1):3–16 (109 ref.)
In vitro bactericidal effect of a beta-lactam + aminoglycoside combination against multiresistant Pseudomonas aeruginosa and Acinetobacter baumannii. Roussel-Delvallez M, et al. **J Chemother** 1996 Oct;8(5):365–8
Detection of extended-spectrum beta-lactamase (ESBL)-producing strains by the Etest ESBL screen. Cormican MG, et al. **J Clin Microbiol** 1996 Aug; 34(8):1880–4
Reevaluation of interpretive criteria for Haemophilus influenzae by using meropenem (10-microgram), imipenem (10-microgram), and ampicillin (2- and 10-microgram) disks. Zerva L, et al. **J Clin Microbiol** 1996 Aug; 34(8):1970–4
Emergence of a carbapenem-resistant Klebsiella pneumoniae [letter] MacKenzie FM, et al. **Lancet** 1997 Sep 13; 350(9080):783
Pneumococcal resistance to beta-lactam antibiotics: a global geographic overview. Baquero F. **Microb Drug Resist** 1995 Summer;1(2):115–20 (16 ref.)
In vitro development of resistance of Streptococcus pneumoniae to beta-lactam antibiotics. Carsenti-Etesse H, et al. **Microb Drug Resist** 1995 Spring;1(1):85–94
Rapid increase of pneumococcal resistance to beta-lactam and other antibiotics in isolates from the respiratory tract (Nagasaki, Japan: 1975–1994). Rikitomi N, et al. **Microbiol Immunol** 1996;40(12):899–905
A hospital outbreak of high-level beta-lactam-resistant Enterobacter spp.: association more with ampicillin and cephalosporin therapy than with nosocomial transmission. Walder M, et al. **Scand J Infect Dis** 1996;28(3):293–6
[Plasmidic extended spectrum resistance to beta-lactams in nosocomial infections] Bauernfeind A. **Kansenshogaku Zasshi** 1996 Dec;70(12):1211–9 **(Jpn)**
[Appearance of extended-spectrum beta-lactamases] Iyobe S. **Nippon Rinsho** 1997 May;55(5):1219–24 (13 ref.) (Eng. Abstr.) **(Jpn)**
[Possibility of drug design of beta-lactam antibiotics effective for multiresistant gram-positive pathogens] Okonogi K, et al. **Nippon Rinsho** 1997 May;55(5):1261–5 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Mechanisms of bacterial resistance to beta-lactams by beta-lactamases] Sawai T. **Nippon Rinsho** 1997 May; 55(5):1225–30 (16 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

A low-copy number plasmid mediating beta-lactamase production by Xanthomonas maltophilia. Kelly MD, et al. **Adv Exp Med Biol** 1995;390:71–80 (18 ref.)
beta-lactamase gene promoters of 71 clinical strains of Klebsiella oxytoca. Fournier B, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):460–3
Multifocal outbreaks of metallo-beta-lactamase-producing Pseudomonas aeruginosa resistant to broad-spectrum beta-lactams, including carbapenems. Senda K, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):349–53
In vitro selection of one-step mutants of Streptococcus pneumoniae resistant to different oral beta-lactam antibiotics is associated with alterations of PBP2x. Sifaoui F, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):152–6
A plasmid-mediated CMY-2 beta-lactamase from an Algerian clinical isolate of Salmonella senftenberg. Koeck JL, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):255–60
Novel transferable beta-lactam resistance with cephalosporinase characteristics in Salmonella enteritidis. Gaillot O, et al. **J Antimicrob Chemother** 1997 Jan; 39(1):85–7
Multi-drug resistant non-typhi salmonellae in Kenya. Kariuki S, et al. **J Antimicrob Chemother** 1996 Sep;38(3):425–34
Imipenem and cephem resistant Pseudomonas aeruginosa carrying plasmids coding for class B beta-lactamase. Minami S, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):433–44
Molecular analysis of a beta-lactam resistance gene encoded within the cephamycin gene cluster of Streptomyces clavuligerus. Paradkar AS, et al. **J Bacteriol** 1996 Nov; 178(21):6266–74
Identification of clinical isolates of indole-positive Klebsiella spp., including Klebsiella planticola, and a genetic and molecular analysis of their beta-lactamases. Liu Y, et al. **J Clin Microbiol** 1997 Sep;35(9):2365–9
Molecular diversity and evolution of blaTEM genes encoding beta-lactamases resistant to clavulanic acid in clinical E. coli. Caniça MM, et al. **J Mol Evol** 1997 Jan;44(1):57–65
The Aeromonas metallo-beta-lactamases: genetics, enzymology, and contribution to drug resistance. Rossolini GM, et al. **Microb Drug Resist** 1996 Summer;2(2):245–52 (34 ref.)
Resistance determinants for beta-lactam antibiotics in laboratory mutants of Streptococcus pneumoniae that are involved in genetic competence. Zähner D, et al. **Microb Drug Resist** 1996 Summer;2(2):187–91
A natural polymorphism in beta-lactamase is a global suppressor. Huang W, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8801–6

PHYSIOLOGY

Antimicrobial resistance with focus on beta-lactam resistance in gram-negative bacilli. Pitout JD, et al. **Am J Med** 1997 Jul;103(1):51–9 (27 ref.)
Altered permeability and beta-lactam resistance in a mutant of Mycobacterium smegmatis. Mukhopadhyay S, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1721–4
Cytosolic intermediates for cell wall biosynthesis and degradation control inducible beta-lactam resistance in gram-negative bacteria. Jacobs C, et al. **Cell** 1997 Mar 21; 88(6):823–32
beta-Lactamase inhibition and in vitro activity of sulbactam and sulbactam/cefoperazone. Williams JD. **Clin Infect Dis** 1997 Mar;24(3):494–7 (7 ref.)
Oxacillin-hydrolyzing beta-lactamase involved in resistance to imipenem in Acinetobacter baumannii. Hornstein M, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):333–9
Non-inducible, mainly cell-associated beta-lactamase from Nocardia asteroides strain 108. Scopetti F, et al. **J Antimicrob Chemother** 1997 Jul;40(1):5–11
Beta-Lactam antibiotic resistance in gram-positive bacterial pathogens of the upper respiratory tract: a brief overview of mechanisms. Tomasz A, et al. **Microb Drug Resist** 1995 Summer;1(2):103–9 (30 ref.)

BETA-LACTAMASE I see **PENICILLINASE**

BETA-LACTAMASE II see **CEPHALOSPORINASE**

BETA-LACTAMASES

Evolution and dissemination of beta-lactamases accelerated by generations of beta-lactam antibiotics. Medeiros AA. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S19–45 (243 ref.)
The evolution of resistance to cephalosporins. Moosdeen F. **Clin Infect Dis** 1997 Mar;24(3):487–93 (78 ref.)
Risk factors for faecal carriage of Klebsiella pneumoniae producing extended spectrum beta-lactamase (ESBL-KP) in the intensive care unit. Peña C, et al. **J Hosp Infect** 1997 Jan;35(1):9–16
[Appearance of extended-spectrum beta-lactamases] Iyobe S. **Nippon Rinsho** 1997 May;55(5):1219–24 (13 ref.) (Eng. Abstr.) **(Jpn)**
[Mechanisms of bacterial resistance to beta-lactams by beta-lactamases] Sawai T. **Nippon Rinsho** 1997 May; 55(5):1225–30 (16 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

Enzymatic assay of beta-lactamase using circular dichroism spectropolarimetry. Long DM. **Anal Biochem** 1997 May 1;247(2):389–93
Characterization of IMI-1 beta-lactamase, a class A carbapenem-hydrolyzing enzyme from Enterobacter cloacae. Rasmussen BA, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2080–6
beta-Lactamase bioassay: a simplified method to determine extended-spectrum beta-lactamases (ESBL) in enterobacteria. Silva-Sánchez J, et al. **Arch Med Res** 1997 Summer;28(2):285–7
Enzyme kinetics and biochemical analysis of ImiS, the metallo-beta-lactamase from Aeromonas sobria 163a. Walsh TR, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):423–31

ANTAGONISTS & INHIBITORS

A practical look at the clinical usefulness of the beta-lactam/beta-lactamase inhibitor combinations. Hart SM, et al. **Ann Pharmacother** 1996 Oct;30(10):1130–40 (79 ref.)
Sensitivity of Aeromonas hydrophila carbapenemase to delta3-cephems: comparative study with other metallo-beta-lactamases. Felici A, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):866–8
Assessment of two penicillins plus beta-lactamase inhibitors versus cefotaxime in treatment of murine Klebsiella pneumoniae infections [published erratum appears in Antimicrob Agents Chemother 1996 Oct;40(10):2441] Fournier JL, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):325–30
Comparison of the bactericidal activities of piperacillin-tazobactam, ticarcillin-clavulanate, and ampicillin-sulbactam against clinical isolates of Bacteroides fragilis, Enterococcus faecalis, Escherichia coli, and Pseudomonas aeruginosa. Klepser ME, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):435–9
Importance of beta-lactamase inhibitor pharmacokinetics in the pharmacodynamics of inhibitor-drug combinations: studies with piperacillin-tazobactam and piperacillin-sulbactam. Lister PD, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):721–7
Inhibition of metallo-beta-lactamases by a series of mercaptoacetic acid thiol ester derivatives. Payne DJ, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):135–40
Emergence of an inhibitor-resistant beta-lactamase (SHV-10) derived from an SHV-5 variant. Prinarakis EE, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):838–40
Antimicrobial susceptibilities of Campylobacter jejuni and Campylobacter coli to 12 beta-lactam agents and combinations with beta-lactamase inhibitors. Tajada P, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1924–5
Postantibiotic and post-beta-lactamase inhibitor effects of amoxicillin plus clavulanate. Thorburn CE, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2796–801
Comparative evaluation of the inhibitory activities of the novel penicillanic acid sulfone Ro 48-1220 against beta-lactamases that belong to groups 1, 2b, and 2be.

Tzouvelekis LS, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):475-7

Assessment of biliary excretion of piperacillin-tazobactam in humans. Westphal JF, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1636-40

Inhibition of TEM-2 beta-lactamase from Escherichia coli by clavulanic acid: observation of intermediates by electrospray ionization mass spectrometry. Brown RP, et al. **Biochemistry** 1996 Sep 24;35(38):12421-32

Susceptibility of clinical isolates to expanded-spectrum beta-lactams alone and in the presence of beta-lactamase inhibitors. Qadri SM, et al. **Chemotherapy** 1996 Sep-Oct; 42(5):334-42

beta-Lactamase inhibition and in vitro activity of sulbactam and sulbactam/cefoperazone. Williams JD. **Clin Infect Dis** 1997 Mar;24(3):494-7 (7 ref.)

Potentiation of human polymorphonuclear leukocyte phagocytosis and intracellular bactericidal activity by amoxycillin/clavulanic acid. Cuffini AM, et al. **Drugs Exp Clin Res** 1996;22(1):9-15

Synthesis and antimicrobial evaluation of 2 beta-chloromethyl-6 beta-carbamoylmethyl-penam-1,1-dioxide-3-carboxylic acid. Gaviraghi G, et al. **Farmaco** 1996 Jul;51(7):535-8

Effect of ticarcillin and ticarcillin/clavulanic acid on the in-vitro activity of human granulocytes against beta-lactamase-producing Klebsiella pneumoniae. Cuffini AM, et al. **Int J Tissue React** 1995;17(5-6):199-203

Mass spectrometric studies on the inhibition of TEM-2 beta-lactamase by clavulanic acid derivatives. Brown RP, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):184-5

Studies on penam sulfones. I. Synthesis and beta-lactamase inhibitory activity of 2 beta-alkoxycarbonyl penicillanic acid sulfones. Setti EL, et al. **J Antibiot (Tokyo)** 1996 Sep; 49(9):944-6

pH effects on the inhibition of extended-spectrum and classical TEM beta-lactamases by penicillanic acid sulphones. Fornara AM, et al. **J Antimicrob Chemother** 1997 Jan;39(1):89-93

In-vitro susceptibility of Klebsiella oxytoca strains to 13 beta-lactams in the presence and absence of beta-lactamase inhibitors. Fournier B, et al. **J Antimicrob Chemother** 1996 May;37(5):931-42

Fixed or variable concentrations of beta-lactamase inhibitors in in-vitro tests? Greenwood D. **J Antimicrob Chemother** 1996 Jul;38(1):17-20

In-vitro pharmacodynamic simulation of clavulanic acid concentrations: effect on Staphylococcus aureus and Haemophilus influenzae beta-lactamase activity [letter] Martin M, et al. **J Antimicrob Chemother** 1997 Feb; 39(2):290-2

Inhibitor-resistant beta-lactamases. Nicolas-Chanoine MH. **J Antimicrob Chemother** 1997 Jul;40(1):1-3 (24 ref.)

Prophylactic administration of amoxicillin and clavulanic acid in pregnant women with premature rupture of the membranes. Tampakoudis P, et al. **J Chemother** 1996 Aug; 8(4):290-4

Design, synthesis, and evaluation of 2 beta-alkenyl penam sulfone acids as inhibitors of beta-lactamases. Richter HG, et al. **J Med Chem** 1996 Sep 13;39(19):3712-22

Studies on penam sulfones. II. Synthesis and beta-lactamase inhibitory activity of 2 beta-carboxamide penicillanic acid sulfones. Reddy NA, et al. **Jpn J Antibiot** 1997 Mar; 50(3):276-8

Cases of Lyme borreliosis resistant to conventional treatment: improved symptoms with cephalosporin plus specific beta-lactamase inhibition. Gasser R, et al. **Microb Drug Resist** 1995 Winter;1(4):341-4

The role of the nonconserved residues at position 167 of class A beta-lactamases in susceptibility to mechanism-based inhibitors. Guo F, et al. **Microb Drug Resist** 1996 Summer; 2(2):261-8

The antibacterial activity of amoxycillin/clavulanic acid against Staphylococcus aureus ingested by human granulocytes. Cuffini AM, et al. **Microbios** 1996; 87(350):31-8

An evaluation of the in vitro activity of piperacillin/tazobactam. Daley D, et al. **Pathology** 1996 May;28(2):167-72

3-Methylidene-beta-lactams as potential inhibitors of beta-lactamases. Part 1: Synthesis of alpha-substituted derivatives from imines by Reformatzky reaction with chlorotrimethylsilane, silylation and Peterson olefination. Gürtler S, et al. **Pharmazie** 1996 Nov;51(11):811-5

In-vitro activity of penicillin G plus sulbactam in comparison with other beta-lactamase inhibitor combinations and oxacillin against staphylococci. Jansen B, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):297-301

[Hepatitis caused by the amoxicillin-clavulanic acid combination. An example of drug-induced biliary hepatotoxicity] Bralet MP, et al. **Ann Pathol** 1996 Dec; 16(6):425-9 (Eng. Abstr.) **(Fre)**

[Study of in vitro activity of 3 cephalosporins and their combination with 2 beta-lactamase inhibitors against 4 enterobacteria strains producing extended spectrum beta-lactamase] Cattoen C, et al. **Pathol Biol (Paris)** 1997 May;45(5):425-9 (Eng. Abstr.) **(Fre)**

[Beta-lactamase inhibitors] Launay O, et al. **Presse Med** 1997 Mar 29;26(10):485-92 (47 ref.) (Eng. Abstr.) **(Fre)**

[Penicillin--binding protein: the target for beta-lactam antibiotics, beta-lactamases and their inhibitors] Lessel J. **Pharm Unserer Zeit** 1996 Jan;25(1):17-27 (24 ref.) **(Ger)**

[Development of beta-lactamase inhibitors] Hyodo A, et al. **Nippon Rinsho** 1997 May;55(5):1272-80 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Use of piperacillin-tazobactam in abdominal surgery] Savov AM, et al. **Antibiot Khimioter** 1997;42(2):26-32 (Eng. Abstr.) **(Rus)**

[Hepatotoxicity caused by amoxicillin, clavulanic acid or both? (letter) (see comments)] Caballero Plasencia AM, et al. **Gastroenterol Hepatol** 1997 Jan;20(1):45-6. Comment in: Gastroenterol Hepatol 1997 Jun-Jul;20(6):337-8. **(Spa)**

[Hepatotoxicity caused by amoxicillin-clavulanic acid (letter; comment)] Reñe JM, et al. **Gastroenterol Hepatol** 1997 Jun-Jul;20(6):337-8. Comment on: Gastroenterol Hepatol 1997 Jan;20(1):45-6. **(Spa)**

BIOSYNTHESIS

A low-copy number plasmid mediating beta-lactamase production by Xanthomonas maltophilia. Kelly MD, et al. **Adv Exp Med Biol** 1995;390:71-80 (18 ref.)

Imipenem resistance in Klebsiella pneumoniae is associated with the combination of ACT-1, a plasmid-mediated AmpC beta-lactamase, and the foss of an outer membrane protein. Bradford PA, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):563-9

Location of N-acetylmuramyl-L-alanyl-D-glutamylmesodiaminopimelic acid, presumed signal molecule for beta-lactamase induction, in the bacterial cell. Dietz H, et al. **Antimicrob Agents Chemother** 1996 Sep; 40(9):2173-7

Predictors of effect of ampicillin-sulbactam against TEM-1 beta-lactamase-producing Escherichia coli in an in vitro dynamic model: enzyme activity versus MIC. Firsov AA, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):734-8

Detection of genes regulating beta-lactamase production in Enterococcus faecalis and Staphylococcus aureus. Okamoto R, et al. **Antimicrob Agents Chemother** 1996 Nov; 40(11):2550-4

Ampicillin-sulbactam is effective in prevention and therapy of experimental endocarditis caused by beta-lactamase-producing coagulase-negative staphylococci. Ramos MC, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):97-101

Evolution of extended-spectrum beta-lactam resistance (SHV-8) in a strain of Escherichia coli during multiple episodes of bacteremia. Rasheed JK, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):647-53

In vitro time-kill curves of cefepime and cefpirome combined with amikacin, gentamicin or ciprofloxacin against Klebsiella pneumoniae producing extended-spectrum beta-lactamase. Elkhaïli H, et al. **Chemotherapy** 1997 Jul-Aug;43(4):245-53

Comparison of beta-lactamase production by Yersinia enterocolitica biotype 4, serotype O:3 isolated in eleven countries. Pham JN, et al. **Contrib Microbiol Immunol** 1995; 13:180-3

Contribution of beta-lactamase production to the resistance of mycobacteria to beta-lactam antibiotics. Quinting B, et al. **FEBS Lett** 1997 Apr 14;406(3):275-8

High level heterologous protein production in Lactococcus and Lactobacillus using a new secretion system based on the Lactobacillus brevis S-layer signals. Savijoki K, et al. **Gene** 1997 Feb 28;186(2):255-62

Survey of prevalence of extended spectrum beta-lactamases among enterobacteriaceae. Chanal C, et al. **J Antimicrob Chemother** 1996 Jul;38(1):127-32

Changes in beta-lactam antibiotic susceptibility and beta-lactamase production of clinical isolates of Bacteroides and Prevotella species over a 9 year period [letter] Edwards R, et al. **J Antimicrob Chemother** 1996 Mar;37(3):636-8

Clinical features of patients with beta-lactamase producing Haemophilus influenzae isolated from sputum. Johnson SR, et al. **J Antimicrob Chemother** 1996 Nov;38(5):881-4

Mechanisms of hyperproduction of TEM-1 beta-lactamase by clinical isolates of Escherichia coli. Wu PJ, et al. **J Antimicrob Chemother** 1995 Dec;36(6):927-39

Comparison of pulsed-field gel electrophoresis and randomly amplified DNA polymorphism analysis for typing extended-spectrum-beta-lactamase-producing Klebsiella pneumoniae. Gori A, et al. **J Clin Microbiol** 1996 Oct; 34(10):2448-53

Molecular epidemiology of Klebsiella pneumoniae producing SHV-5 beta- lactamase: parallel outbreaks due to multiple plasmid transfer. Prodinger WM, et al. **J Clin Microbiol** 1996 Mar;34(3):564-8

Detection of extended-spectrum-beta-lactamase-producing members of the family Enterobacteriaceae with Vitek ESBL test. Sanders CC, et al. **J Clin Microbiol** 1996 Dec; 34(12):2997-3001

Chromosomal DNA restriction endonuclease digestion patterns of beta-lactamase-producing Enterococcus faecalis isolates collected from a single hospital over a 7-year period. Seetulsingh PS, et al. **J Clin Microbiol** 1996 Aug;34(8):1892-6

beta-Lactamase producing bacteria in adult periodontitis. van Winkelhoff AJ, et al. **J Clin Periodontol** 1997 Aug; 24(8):538-43

Activity of selected antimicrobial agents against strains of Staphylococcus aureus isolated from bovine intramammary infections that produce beta-lactamase. Watts JL, et al. **J Dairy Sci** 1997 Apr;80(4):788-91

Epidemiological typing of extended-spectrum beta-lactamase-producing Klebsiella pneumoniae isolates responsible for five outbreaks in a university hospital. Branger C, et al. **J Hosp Infect** 1997 May;36(1):23-36

Increased incidence of beta-lactamase-plasmid negative, high level methicillin-resistant Staphylococcus aureus (MRSA). Yokoyama T, et al. **Kurume Med J** 1996;43(3):199-206

Overproduction and purification of the Aeromonas hydrophila CphA metallo-beta-lactamase expressed in Escherichia coli. Hernandez Villadares M, et al. **Microb Drug Resist** 1996 Summer;2(2):253-6

beta-Lactamase induction in gram-negative bacteria is intimately linked to peptidoglycan recycling. Normark S. **Microb Drug Resist** 1995 Summer;1(2):111-4 (25 ref.)

Studies of the repressor (BlaI) of beta-lactamase synthesis in Staphylococcus aureus. Gregory PD, et al. **Mol Microbiol** 1997 Jun;24(5):1025-37

Starvation-independent sporulation in Myxococcus xanthus involves the pathway for beta-lactamase induction and provides a mechanism for competitive cell survival. O'Connor KA, et al. **Mol Microbiol** 1997 May;24(4):839-50

ESBL-producing organisms and cephalosporins [letter] Derby P, et al. **S Afr Med J** 1997 Jan;87(1):80

Susceptibilities to 23 antimicrobial agents and beta-lactamase production of blood culture isolates of Acinetobacter sp in Hong Kong. Ling JM, et al. **Scand J Infect Dis Suppl** 1996;101:21-5

Antimicrobial susceptibility and extended-spectrum beta-lactamases of Hong Kong isolates of enterobacteriaceae. Lyon DJ, et al. **Scand J Infect Dis Suppl** 1996;101:17-20

The role of N-actylglucosaminyl-1,6 anhydro N-acetylmuramyl-L-alanyl-D-glutamyl-meso-diaminopimelic acid-D-alanine for the induction of beta-lactamase in Enterobacter cloacae. Dietz H, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):207-17

[Extended spectrum beta-lactamases in clinical isolates of Klebsiella pneumoniae] Bedenić B. **Lijec Vjesn** 1996 Oct; 118(10):244-8 (Eng. Abstr.) **(Scr)**

[The effect of cefepime on ceftazidime, cefotaxime and imipenem resistant strains of Acinetobacter, Xanthomonas, Pseudomonas, Flavobacterium, Sphingobacterium and on producers of extended spectrum beta-lactamases (ESBL) with resistance transfer] Blahová J, et al. **Cas Lek Cesk** 1997 Mar 12;136(5):154-6 (Eng. Abstr.) **(Slo)**

CHEMISTRY

Polyclonal catalytic anti-idiotypic antibodies with a beta-lactamase activity. Avalle B, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:172-5

Probing the determinants of protein stability: comparison of class A beta-lactamases. Vanhove M, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):859-64

Structure and kinetics of the beta-lactamase mutants S70A and K73H from Staphylococcus aureus PC1. Chen CC, et al. **Biochemistry** 1996 Sep 24;35(38):12251-8

Characterization of the metal-binding sites of the beta-lactamase from Bacteroides fragilis. Crowder MW, et al. **Biochemistry** 1996 Sep 17;35(37):12126-32

Circularly permuted beta-lactamase from Staphylococcus aureus PC1. Pieper U, et al. **Biochemistry** 1997 Jul 22; 36(29):8767-74

Elimination of the hydrolytic water molecule in a class A beta-lactamase mutant: crystal structure and kinetics. Zawadzke LE, et al. **Biochemistry** 1996 Dec 24; 35(51):16475-82

Unexpected influence of a C-terminal-fused His-tag on the processing of an enzyme and on the kinetic and folding parameters. Ledent P, et al. **FEBS Lett** 1997 Aug 18; 413(2):194-6

Substitution of alanine for aspartate at position 179 in the SHV-6 extended-spectrum beta-lactamase. Arlet G, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):163-7

An additional ionic bond suggested by molecular modelling of TEM-2 might induce a slight discrepancy between catalytic properties of TEM-1 and TEM-2 beta-lactamases. Chaïbi EB, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2-3):121-5

Structure-function relationships among wild-type variants of Staphylococcus aureus beta-lactamase: importance of amino acids 128 and 216. Voladri RK, et al. **J Bacteriol** 1996 Dec;178(24):7248-53

Purification, crystallization, and preliminary X-Ray diffraction analysis of the carbapenem-hydrolyzing class A beta-lactamase Sme-1 from Serratia marcescens. Sougakoff W, et al. **J Struct Biol** 1996 Mar-Apr; 116(2):313-6

Active site peptide of beta-lactamase from Shigella flexneri UCSF-129. Campos M, et al. **Microbios** 1997;90(362):17-22

The roles of residues Tyr150, Glu272, and His314 in class C beta-lactamases. Dubus A, et al. **Proteins** 1996 Aug; 25(4):473-85

The rate-limiting step in the folding of the cis-Pro167Thr mutant of TEM-1 beta-lactamase is the trans to cis isomerization of a non-proline peptide bond. Vanhove M, et al. **Proteins** 1996 May;25(1):104-11

Crystal structure of the wide-spectrum binuclear zinc beta-lactamase from Bacteroides fragilis. Concha NO, et al. **Structure** 1996 Jul 15;4(7):823-36

[Three-stage equilibrium unfolding of small globular proteins by denaturing agents. II. Beta-lactamase and general model] Uverskiĭ VN, et al. **Mol Biol (Mosk)** 1996 Sep-Oct;

30(5):1135-43 **(Rus)**

CLASSIFICATION

Nomenclature of TEM beta-lactamases. Bush K, et al. **J Antimicrob Chemother** 1997 Jan;39(1):1-3

DRUG EFFECTS

Expression of Aeromonas caviae bla genes in Escherichia coli. Sayeed S, et al. **J Antimicrob Chemother** 1996 Sep; 38(3):435-41

Non-inducible, mainly cell-associated beta-lactamase from Nocardia asteroides strain 108. Scopetti F, et al. **J Antimicrob Chemother** 1997 Jul;40(1):5-11

GENETICS

The development of beta-lactamase as a highly versatile genetic reporter for eukaryotic cells. Moore JT, et al. **Anal Biochem** 1997 May 1;247(2):203-9

Comparative characterization of the cephamycinase blaCMY-1 gene and its relationship with other beta-lactamase genes. Bauernfeind A, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1926-30

Characterization of beta-lactamase gene blaPER-2, which encodes an extended-spectrum class A beta-lactamase. Bauernfeind A, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):616-20

Sequences of beta-lactamase genes encoding CTX-M-1 (MEN-1) and CTX-M-2 and relationship of their amino acid sequences with those of other beta-lactamases. Bauernfeind A, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):509-13

Pseudomonas aeruginosa isolates from patients with cystic fibrosis have different beta-lactamase expression phenotypes but are homogeneous in the ampC-ampR genetic region. Campbell JI, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1380-4

Sequencing and analysis of four new Enterobacter ampD Alleles. Ehrhardt AF, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1953-6

Variability of chromosomally encoded beta-lactamases from Klebsiella oxytoca. Fournier B, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1641-8

Chromosomal beta-lactamase genes of Klebsiella oxytoca are divided into two main groups, blaOXY-1 and blaOXY-2. Fournier B, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):454-9

beta-lactamase gene promoters of 71 clinical strains of Klebsiella oxytoca. Fournier B, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):460-3

Cloning and sequence analysis of a class A beta-lactamase from Mycobacterium tuberculosis H37Ra. Hackbarth CJ, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1182-5

Survey and molecular genetics of SHV beta-lactamases in Enterobacteriaceae in Switzerland: two novel enzymes, SHV-11 and SHV-12. Nüesch-Inderbinen MT, et al. **Antimicrob Agents Chemother** 1997 May;41(5):943-9

Detection of genes regulating beta-lactamase production in Enterococcus faecalis and Staphylococcus aureus. Okamoto R, et al. **Antimicrob Agents Chemother** 1996 Nov; 40(11):2550-4

A bla(TEM-1b)-derived TEM-6 beta-lactamase: a case of convergent evolution [letter] Peixe LV, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1206

Multifocal outbreaks of metallo-beta-lactamase-producing Pseudomonas aeruginosa resistant to broad-spectrum beta-lactams, including carbapenems. Senda K, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):349-53

A complex mutant of TEM-1 beta-lactamase with mutations encountered in both IRT-4 and extended-spectrum TEM-15, produced by an Escherichia coli clinical isolate. Sirot D, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1322-5

Comparison of the beta-lactamase gene cluster in clonally distinct strains of Enterococcus faecalis. Tomayko JF, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1170-4

Sequence analysis and enzyme kinetics of the L2 serine beta-lactamase from Stenotrophomonas maltophilia. Walsh TR, et al. **Antimicrob Agents Chemother** 1997 Jul; 41(7):1460-4

Kinetic and thermodynamic consequences of the removal of the Cys-77-Cys-123 disulphide bond for the folding of TEM-1 beta-lactamase. Vanhove M, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):413-7

Elimination of the hydrolytic water molecule in a class A beta-lactamase mutant: crystal structure and kinetics. Zawadzke LE, et al. **Biochemistry** 1996 Dec 24; 35(51):16475-82

Construction, expression, and activities of L49-sFv-beta-lactamase, a single-chain antibody fusion protein for anticancer prodrug activation. Siemers NO, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):510-9

The evolution of beta-lactamases. Bush K. **Ciba Found Symp** 1997;207:152-63; discussion 163-6

Beta-lactamase genes and beta-lactamic susceptibility in Yersinia enterocolitica. de la Prieta MC, et al. **Contrib Microbiol Immunol** 1995;13:184-7

OHIO-1 beta-lactamase mutants: Asp179Gly mutation confers resistance to ceftazidime. Bonomo RA, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):275-8

A plasmid-mediated CMY-2 beta-lactamase from an Algerian clinical isolate of Salmonella senftenberg. Koeck JL, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):255-60

Insertion of a carbapenemase gene cassette into an integron of a Pseudomonas aeruginosa plasmid [letter] [published erratum appears in J Antimicrob Chemother 1997 Jun;39(6):845] Iyobe S, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1114-5

Imipenem and cephem resistant Pseudomonas aeruginosa carrying plasmids coding for class B beta-lactamase. Minami S, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):433-44

Expression of Aeromonas caviae bla genes in Escherichia coli. Sayeed S, et al. **J Antimicrob Chemother** 1996 Sep; 38(3):435-41

Expression of the AsbA1, OXA-12, and AsbM1 beta-lactamases in Aeromonas jandaei AER 14 is coordinated by a two-component regulon. Alksne LE, et al. **J Bacteriol** 1997 Mar;179(6):2006-13

AmpC and AmpH, proteins related to the class C beta-lactamases, bind penicillin and contribute to the normal morphology of Escherichia coli. Henderson TA, et al. **J Bacteriol** 1997 Oct;179(19):6112-21

The bla gene of the cephamycin cluster of Streptomyces clavuligerus encodes a class A beta-lactamase of low enzymatic activity. Pérez-Llarena F, et al. **J Bacteriol** 1997 Oct;179(19):6035-40

Purification and characterization of the Proteus vulgaris BlaA protein, the activator of the beta-lactamase gene. Ishiguro K, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):98-103

Site-directed mutagenesis of glutamate 166 in two beta-lactamases. Kinetic and molecular modeling studies. Guillaume G, et al. **J Biol Chem** 1997 Feb 28; 272(9):5438-44

En bloc transduction of imipenem resistance with other resistance determinants from a clinical strain of Pseudomonas aeruginosa. Babálová M, et al. **J Chemother** 1996 Feb;8(1):43-6

Identification and location of the SHV-1 gene in Klebsiella pneumoniae strains. Chaves J, et al. **J Chemother** 1995 Nov; 7 Suppl 4:49-51

Identification of clinical isolates of indole-positive Klebsiella spp., including Klebsiella planticola, and a genetic and molecular analysis of their beta-lactamases. Liu Y, et al. **J Clin Microbiol** 1997 Sep;35(9):2365-9

PCR detection of metallo-beta-lactamase gene (blaIMP) in gram-negative rods resistant to broad-spectrum beta-lactams. Senda K, et al. **J Clin Microbiol** 1996 Dec; 34(12):2909-13

Characterization of a nosocomial outbreak involving an epidemic plasmid encoding for TEM-27 in Salmonella enterica subspecies enterica serotype Othmarschen. Morosini MI, et al. **J Infect Dis** 1996 Nov;174(5):1015-20

Molecular diversity and evolution of blaTEM genes encoding beta-lactamases resistant to clavulanic acid in clinical E. coli. Caniça MM, et al. **J Mol Evol** 1997 Jan;44(1):57-65

The role of the nonconserved residues at position 167 of class A beta-lactamases in susceptibility to mechanism-based inhibitors. Guo F, et al. **Microb Drug Resist** 1996 Summer; 2(2):261-8

Overproduction and purification of the Aeromonas hydrophila CphA metallo-beta-lactamase expressed in Escherichia coli. Hernandez Villadares M, et al. **Microb Drug Resist** 1996 Summer;2(2):253-6

Inducible expression of the chromosomal cdiA from Citrobacter diversus NF85, encoding an ambler class A beta-lactamase, is under similar genetic control to the chromosomal ampC, encoding an ambler class C enzyme, from Citrobacter freundii OS60. Jones ME, et al. **Microb Drug Resist** 1995 Winter;1(4):285-91

The Aeromonas metallo-beta-lactamases: genetics, enzymology, and contribution to drug resistance. Rossolini GM, et al. **Microb Drug Resist** 1996 Summer;2(2):245-52 (34 ref.)

The two beta-lactamase genes of Streptomyces cacaoi, blaL and blaU, are under the control of the same regulatory system. Magdalena J, et al. **Mol Gen Genet** 1997 Jun; 255(2):187-93

A natural polymorphism in beta-lactamase is a global suppressor. Huang W, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8801-6

Display of beta-lactamase on the Escherichia coli surface: outer membrane phenotypes conferred by Lpp'-OmpA'-beta-lactamase fusions. Georgiou G, et al. **Protein Eng** 1996 Feb;9(2):239-47

High-yield expression, purification, and characterization of active, soluble Bacteroides fragilis metallo-beta-lactamase, CcrA. Toney JH, et al. **Protein Expr Purif** 1997 Apr; 9(3):355-62

[The mutation and the selection of inactivating enzymes against antibiotic resistances] Inoue M, et al. **Nippon Rinsho** 1997 May;55(5):1161-6 (7 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

The influence of allotypes on the IgG subclass response to chromosomal beta-lactamase of Pseudomonas aeruginosa in cystic fibrosis patients. Ciofu O, et al. **Clin Exp Immunol** 1997 Apr;108(1):88-94

Immunologically specific activation of a cephalosporin derivative of mitomycin C by monoclonal antibody beta-lactamase conjugates. Vrudhula VM, et al. **J Med Chem** 1997 Aug 15;40(17):2788-92

Quantitative analysis of the IgG and IgG subclass immune responses to chromosomal Pseudomonas aeruginosa beta-lactamase in serum from patients with cystic fibrosis by western blotting and laser scanning densitometry. Petersen TD, et al. **Thorax** 1996 Jul;51(7):733-8

ISOLATION & PURIFICATION

Characterization of the plasmidic beta-lactamase CMY-2, which is responsible for cephamycin resistance. Bauernfeind A, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):221-4

TEM-28 from an Escherichia coli clinical isolate is a member of the His-164 family of TEM-1 extended-spectrum beta-lactamases. Bradford PA, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):260-2

Novel extended-spectrum TEM-type beta-lactamase from an Escherichia coli isolate resistant to ceftazidime and susceptible to cephalothin. Chanal-Claris C, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):715-6

Recovery of active beta-lactamases from Proteus vulgaris and RTEM-1 hybrid by random mutagenesis by using a dnaQ strain of Escherichia coli. Hosseini-Mazinani SM, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2152-9

Detection of SHV-5 extended-spectrum beta-lactamase in Klebsiella pneumoniae strains isolated in Italy. Marchese A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar; 15(3):245-8

Purification and properties of the Mycobacterium smegmatis mc(2)155 beta-lactamase. Quinting B, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):11-5

Characterization of an inhibitor-resistant enzyme IRT-2 derived from TEM-2 beta-lactamase produced by Proteus mirabilis strains. Bret L, et al. **J Antimicrob Chemother** 1996 Aug;38(2):183-91

Detection of extended-spectrum beta-lactamase (ESBL)-producing strains by the Etest ESBL screen. Cormican MG, et al. **J Clin Microbiol** 1996 Aug; 34(8):1880-4

METABOLISM

Modified fluorimetric assay for estimating ampicilloate concentrations and its use for detecting beta-lactamase and penicillin acylase activity in bacteria. Baker WL. **Analyst** 1997 May;122(5):447-53

Changing trends in the antimicrobial susceptibility of clinical isolates of Acinetobacter baumannii. Sng LH, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):179-83

Characterization of an inhibitor-resistant TEM (IRT) beta-lactamase in a novel strain of Klebsiella pneumoniae [letter] Bermudes H, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):222

Pseudomonas aeruginosa isolates from patients with cystic fibrosis have different beta-lactamase expression phenotypes but are homogeneous in the ampC-ampR genetic region. Campbell JI, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1380-4

Properties of IRT-14 (TEM-45), a newly characterized mutant of TEM-type beta-lactamases. Caniça MM, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):374-8

Characterization of clinical isolates of beta-lactamase-negative, highly ampicillin-resistant Enterococcus faecalis. Cercenado E, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2420-2

OXA-15, an extended-spectrum variant of OXA-2 beta-lactamase, isolated from a Pseudomonas aeruginosa strain. Danel F, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):785-90

Antibiotic resistance among clinical isolates of Haemophilus influenzae in the United States in 1994 and 1995 and detection of beta-lactamase-positive strains resistant to amoxicillin-clavulanate: results of a national multicenter surveillance study. Doern GV, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):292-7

Implication of Ile-69 and Thr-182 residues in kinetic characteristics of IRT-3 (TEM-32) beta-lactamase. Farzaneh S, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2434-6

Beta-lactamases and detection of beta-lactam resistance in Enterobacter spp. Pitout JD, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):35-9

Carbapenem-hydrolyzing beta-lactamases. Rasmussen BA, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):223-32 (88 ref.)

Transferable hyperproduction of TEM-1 beta-lactamase in Shigella flexneri due to a point mutation in the pribnow box. Siu LK, et al. **Antimicrob Agents Chemother** 1997 Feb; 41(2):468-70

The beta-lactamases of Moraxella (Branhamella) catarrhalis isolated from Danish children. Ejlertsen T, et al. **APMIS** 1996 Jul-Aug;104(7-8):557-62

Kinetic and thermodynamic consequences of the removal of the Cys-77-Cys-123 disulphide bond for the folding of TEM-1 beta-lactamase. Vanhove M, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):413-7

Probing the non-proline cis peptide bond in beta-lactamase from Staphylococcus aureus PC1 by the replacement Asn136 —> Ala. Banerjee S, et al. **Biochemistry** 1997 Sep 9;36(36):10857-66

Structure and kinetics of the beta-lactamase mutants S70A and K73H from Staphylococcus aureus PC1. Chen CC, et al. **Biochemistry** 1996 Sep 24;35(38):12251-8

Characterization of the metal-binding sites of the

beta-lactamase from Bacteroides fragilis. Crowder MW, et al. **Biochemistry** 1996 Sep 17;35(37):12126-32

Zn(II) dependence of the Aeromonas hydrophila AE036 metallo-beta-lactamase activity and stability. Hernandez Valladares M, et al. **Biochemistry** 1997 Sep 23; 36(38):11534-41

Characterization and amino acid sequence analysis of a new oxyimino cephalosporin-hydrolyzing class A beta-lactamase from Serratia fonticola CUV. Péduzzi J, et al. **Biochim Biophys Acta** 1997 Aug 15;1341(1):58-70

In vitro activity of cefetamet against enterobacteria expressing an SHV-5-type beta-lactamase. Tzouvelekis LS, et al. **Chemotherapy** 1996 Sep-Oct;42(5):324-8

Is it important to identify extended-spectrum beta-lactamase-producing isolates? [editorial] Bush K. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):361-4 (38 ref.)

Detection of genes coding for extended-spectrum SHV beta-lactamases in clinical isolates by a molecular genetic method, and comparison with the E test. Nüesch-Inderbinen MT, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):398-402

Folding intermediates of beta-lactamase recognized by GroEL. Gervasoni P, et al. **FEBS Lett** 1997 Jan 20; 401(2-3):138-42

Unexpected influence of a C-terminal-fused His-tag on the processing of an enzyme and on the kinetic and folding parameters. Ledent P, et al. **FEBS Lett** 1997 Aug 18; 413(2):194-6

Oxacillin-hydrolyzing beta-lactamase involved in resistance to imipenem in Acinetobacter baumannii. Hornstein M, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):333-9

A kinetic study of NMC-A beta-lactamase, an Ambler class A carbapenemase also hydrolyzing cephamycins. Mariotte-Boyer S, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):29-33

Purification and properties of the Mycobacterium smegmatis mc(2)155 beta-lactamase. Quinting B, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):11-5

Biochemical characterization of the carbapenem-hydrolyzing beta-lactamase AsbM1 from Aeromonas sobria AER 14M: a member of a novel subgroup of metallo-beta-lactamases. Yang Y, et al. **FEMS Microbiol Lett** 1996 Apr 1; 137(2-3):193-200

Mycobacterium leprae: biochemical studies of clinical relevance. Prabhakaran K. **Indian J Lepr** 1997 Apr-Jun; 69(2):173-8 (25 ref.)

Characterization of an inhibitor-resistant enzyme IRT-2 derived from TEM-2 beta-lactamase produced by Proteus mirabilis strains. Bret L, et al. **J Antimicrob Chemother** 1996 Aug;38(2):183-91

Are TEM beta-lactamases encoded by pBR322 and Bluescript plasmids enzymatically indistinguishable? [letter] Chaibi EB, et al. **J Antimicrob Chemother** 1997 May; 39(5):668-9

Mathematical model of beta-lactam penetration into a biofilm of Pseudomonas aeruginosa while undergoing simultaneous inactivation by released beta-lactamases. Dibdin GH, et al. **J Antimicrob Chemother** 1996 Nov;38(5):757-69

Multi-drug resistant non-typhi salmonellae in Kenya. Kariuki S, et al. **J Antimicrob Chemother** 1996 Sep;38(3):425-34

Rarity of transferable beta-lactamase production by Klebsiella species. Leung M, et al. **J Antimicrob Chemother** 1997 Jun;39(6):737-45

Antibiotic resistance and production of extended-spectrum beta-lactamases amongst Klebsiella spp. from intensive care units in Europe. Livermore DM, et al. **J Antimicrob Chemother** 1996 Sep;38(3):409-24

Antibacterial activity of T-5575, a novel 2-carboxypenam, and its stability to beta-lactamase. Matsumura N, et al. **J Antimicrob Chemother** 1997 Jan;39(1):31-4

Imipenem and cephem resistant Pseudomonas aeruginosa carrying plasmids coding for class B beta-lactamase. Minami S, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):433-44

Non-inducible, mainly cell-associated beta-lactamase from Nocardia asteroides strain 108. Scopetti F, et al. **J Antimicrob Chemother** 1997 Jul;40(1):5-11

Enzyme kinetics and biochemical analysis of ImiS, the metallo-beta-lactamase from Aeromonas sobria 163a. Walsh TR, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):423-31

AmpC and AmpH, proteins related to the class C beta-lactamases, bind penicillin and contribute to the normal morphology of Escherichia coli. Henderson TA, et al. **J Bacteriol** 1997 Oct;179(19):6112-21

Structure-function relationships among wild-type variants of Staphylococcus aureus beta-lactamase: importance of amino acids 128 and 216. Voladri RK, et al. **J Bacteriol** 1996 Dec;178(24):7248-53

An alkaline D-stereospecific endopeptidase with beta-lactamase activity from Bacillus cereus. Asano Y, et al. **J Biol Chem** 1996 Nov 22;271(47):30256-62

Selection and characterization of amino acid substitutions at residues 237-240 of TEM-1 beta-lactamase with altered substrate specificity for aztreonam and ceftazidime. Cantu C III, et al. **J Biol Chem** 1996 Sep 13;271(37):22538-45

In vitro activity of cefdinir against respiratory pathogens isolated in Sicily with reference to beta-lactamase production. Blandino G, et al. **J Chemother** 1996 Jun; 8(3):193-9

Detection and clinical significance of extended-spectrum beta-lactamases in a tertiary-care medical center. Emery CL, et al. **J Clin Microbiol** 1997 Aug;35(8):2061-7

The effect of zinc ions on the activity of metallo-beta-lactamases of Bacteroides fragilis. Edwards R, et al. **J Med Microbiol** 1997 Sep;46(9):807-9

Molecular control analysis: control within proteins and molecular processes. Brown GC, et al. **J Theor Biol** 1996 Oct 7;182(3):389-96

Emergence of resistance to beta-lactam agents in enterobacteriaceae species with group I beta-lactamases in Spain. Colom K, et al. **Microb Drug Resist** 1996 Fall; 2(3):353-9

beta-Lactamases are absent from Archaea (archaebacteria). Martin HH, et al. **Microb Drug Resist** 1996 Summer; 2(2):269-72

The convergence of murein recycling research with beta-lactamase research. Park JT. **Microb Drug Resist** 1996 Spring;2(1):105-12 (20 ref.)

The Aeromonas metallo-beta-lactamases: genetics, enzymology, and contribution to drug resistance. Rossolini GM, et al. **Microb Drug Resist** 1996 Summer;2(2):245-52 (34 ref.)

The outer membrane of lipid A-deficient Escherichia coli mutant LH530 has reduced levels of OmpF and leaks periplasmic enzymes. Nurminen M, et al. **Microbiology** 1997 May;143 (Pt 5):1533-7

The other kind of biological NMR--studies of enzyme-substrate interactions. Roberts GC. **Neurochem Res** 1996 Sep;21(9):1117-24 (36 ref.)

Comparative susceptibility of clinical isolates producing extended spectrum beta-lactamases to ceftibuten: effect of large inocula. Medeiros AA, et al. **Pediatr Infect Dis J** 1997 Mar;16(3 Suppl):S49-55

beta-Lactamase binds to GroEL in a conformation highly protected against hydrogen/deuterium exchange. Gervasoni P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12189-94

A point mutation leads to altered product specificity in beta-lactamase catalysis. Lewis ER, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):443-7

An engineered Staphylococcus aureus PC1 beta-lactamase that hydrolyses third-generation cephalosporins. Zawadzke LE, et al. **Protein Eng** 1995 Dec;8(12):1275-85

A disulfide bridge near the active site of carbapenem-hydrolyzing class A beta-lactamases might explain their unusual substrate profile. Raquet X, et al. **Proteins** 1997 Jan;27(1):47-58

Regulation of beta-lactamase synthesis as a novel site of action for suppression of methicillin resistance in Staphylococcus aureus. Bruns O, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):413-30

[Conjugative and non-conjugative plasmids in Salmonella serovar Wien coded for broad-spectrum beta-lactamase] Bouabdallah F, et al. **Pathol Biol (Paris)** 1996 Oct; 44(8):701-4 (Eng. Abstr.) **(Fre)**

[Routine detection of beta-lactamases TEM resistant to inhibitors (IRT) and oxacillinases (OXA) in Escherichia coli.] Libert JM, et al. **Pathol Biol (Paris)** 1997 Jan; 45(1):34-40 (Eng. Abstr.) **(Fre)**

[Enzyme determination in vitro of inhibitor activity of beta-lactamase from tazobactam. Comparison with high performance liquid chromatography] Sotto A, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):77-81 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Enzymes from cold-adapted microorganisms. The class C beta-lactamase from the antarctic psychrophile Psychrobacter immobilis A5. Feller G, et al. **Eur J Biochem** 1997 Feb 15;244(1):186-91

[Bacterial beta-lactamases] Makarov AN, et al. **Antibiot Khimioter** 1996 Jan;41(1):45-58 (86 ref.) **(Rus)**

SECRETION

Influence of phospholipid composition on excretion of beta-lactamase from a stringent/relaxed Escherichia coli K 12 strain pair. Gitter B, et al. **Microbiol Res** 1996 Dec; 151(4):337-42

BETA-LACTAMS see **LACTAMS**

BETA-LACTAMS, MONOCYCLIC see **MONOBACTAMS**

BETA-LIPOPROTEINS see **LIPOPROTEINS, LDL**

BETA-LIPOTROPIN see **LIPOTROPIN**

BETA-LIPOTROPIN C FRAGMENT see **BETA-ENDORPHIN**

BETA-MERCAPTOPROPIONATE see **3-MERCAPTOPROPIONIC ACID**

BETA-METHYLDIGOXIN see **MEDIGOXIN**

BETA 2-MICROGLOBULIN

Maintaining blood compartment volume in dialyzers reprocessed with peracetic acid maintains Kt/V but not beta2-microglobulin removal. Ouseph R, et al. **Am J Kidney Dis** 1997 Oct;30(4):501-6

The relationship between beta-2-microglobulin, CD4 lymphocyte count, AIDS and death in HIV-positive individuals. Mocroft A, et al. **Epidemiol Infect** 1997 Jun; 118(3):259-66

Elevated pentosidine content in amyloid deposits and in insoluble amyloid fibrils from patients with beta 2-microglobulin amyloidosis [letter] Argilés A, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2371-2

ANALYSIS

The effect of hollow-fiber dialyzer Plivadial Altra-Flux 140 on beta-2-microglobulin removal. Kes P, et al. **Acta Med Croatica** 1997;51(2):105-9

Prospective longitudinal analysis of viral load and surrogate markers in relation to clinical progression in HIV type 1-infected persons. Bruisten SM, et al. **AIDS Res Hum Retroviruses** 1997 Mar 1;13(4):327-35

Serum beta-2 microglobulin as a marker of B-cell activation in chronic lymphoid malignancies [letter] Shvidel L, et al. **Am J Hematol** 1996 Oct;53(2):148-9

Serum beta 2-microglobulin in fetuses with urinary tract anomalies. Tassis BM, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):54-7

Serum and urine beta-2-microglobulin in hemophagocytic syndrome. Hibi S, et al. **Cancer** 1995 Apr 1;75(7):1700-5

Decreased blood level of beta 2-microglobulin in the employees of a factory which produced polychlorinated biphenyls. Langer P, et al. **Chemosphere** 1997 Jun; 34(12):2595-600

Are cystatin C and beta 2-microglobulin better markers than serum creatinine for prediction of a normal glomerular filtration rate in pediatric subjects? Filler G, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):1077-8

Significance of pleural fluid cholesterol and beta-2 microglobulin levels for the differentiation of pleural effusions in childhood. Kalayci AG, et al. **Clin Pediatr (Phila)** 1996 Jul;35(7):353-8

The absence of human beta 2-microglobulin increases the occurrence of ankylosing enthesopathy in HLA-B27 transgenic mice. Chopin M, et al. **Clin Rheumatol** 1996 Jan; 15 Suppl 1:28-31

Elevation of serum soluble intercellular adhesion molecule-1 (sICAM-1) and beta-2-microglobulin in Sjögren's syndrome. Krejsek J, et al. **Clin Rheumatol** 1997 Mar; 16(2):149-53

Increased beta 2-microglobulin (B2M) is useful in the detection of post-transplant lymphoproliferative disease (PTLD). Sasaki TM, et al. **Clin Transplant** 1997 Feb; 11(1):29-33

Serum beta2-microglobulin in chronic hepatitis C. Malaguarnera M, et al. **Dig Dis Sci** 1997 Apr;42(4):762-6

Validation of a particle enhanced immunoturbidimetric assay for serum beta 2-microglobulin on the Dade aca. Newman DJ, et al. **Eur J Clin Chem Clin Biochem** 1996 Oct; 34(10):861-5

Correlation between tumour and serum beta 2m expression in patients with breast cancer. Klein T, et al. **Eur J Immunogenet** 1996 Dec;23(6):417-23

Autoimmune phenomena and activation of the immune system in HIV infection [letter] Radkowski M, et al. **Infection** 1996 Jan-Feb;24(1):56

Serum beta 2-microglobulin at HIV-1 seroconversion as a predictor of severe immunodeficiency during 10 years of followup. Phillips AN, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):262-6

Effects of bisphosphonates on interleukin 1, tumor necrosis factor alpha, and beta 2 microglobulin in rheumatoid arthritis [letter] Cantatore FP, et al. **J Rheumatol** 1996 Jun; 23(6):1117-8

Measurement of beta 2-microglobulin in bovine serum and urine by radioimmunoassay. Kunugiyama I, et al. **J Vet Med Sci** 1996 Jul;58(7):617-22

Serum beta(2)-microglobulin and serum thymidine kinase are independent predictors of progression-free survival in chronic lymphocytic leukemia and immunocytoma. Hallek M, et al. **Leuk Lymphoma** 1996 Aug;22(5-6):439-47

Clinical and biological significance of serum tumor markers in adult T-cell leukemia. Sadamori N. **Leuk Lymphoma** 1996 Aug;22(5-6):415-9 (59 ref.)

Neopterin, beta 2-microglobulin, and acute phase proteins in HIV-1-seropositive and -seronegative Zambian patients with tuberculosis. Hosp M, et al. **Lung** 1997;175(4):265-75

Beta 2-microglobulin as an indicator of interstitial cell infiltration in IgA nephropathy [letter] Nitta K, et al. **Nephron** 1996;74(1):219-20

Pleural fluid beta-2-microglobulin and angiotensin-converting enzyme concentrations in rheumatoid arthritis and tuberculosis. Söderblom T, et al. **Respiration** 1996;63(5):272-6

Assessment of beta-2-microglobulin concentration in serum and urine in rheumatoid arthritis. Lewandowski B, et al. **Rocz Akad Med Bialymst** 1996;41(2):482-91

Beta-2 microglobulin in heart transplanted patients. Erez E, et al. **Transplant Proc** 1997 Sep;29(6):2706-7

Evaluation of commercially available assays of neopterin and beta 2-microglobulin for the assessment of disease progression in FIV-infected cats. Beatty JA, et al. **Vet Immunol Immunopathol** 1997 May;56(1-2):185-9

Purification of bovine beta 2-microglobulin from colostrum and its complete amino acid sequence. Hoshi F, et al. **Vet Immunol Immunopathol** 1996 Sep;53(1-2):29-38

Visceral organ involvement and extracellular matrix changes in beta 2-microglobulin amyloidosis--a comparative study with systemic AA and AL amyloidosis. Ohashi K, et al. **Virchows Arch** 1997 Jun;430(6):479–87

[beta 2-microglobulin clearance] Okubo M, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:620–3 (9 ref.) **(Jpn)**

[The analysis of plasma beta 2-microglobulin concentration in patients with chronic renal failure treated by hemodialysis] Król Z, et al. **Pediatr Pol** 1996 Feb; 71(2):121–5 (Eng. Abstr.) **(Pol)**

[Diagnostic significance of beta 2-microglobulin after allotransplantation of cultured pancreatic islet cells of human fetus] Galibin OV, et al. **Klin Lab Diagn** 1996 Sep–Oct;(5):19–21 (Eng. Abstr.) **(Rus)**

[The prognostic significance of the beta 2-microglobulin level of the blood serum in multiple myeloma patients] Lubo-Lesnichenko IF, et al. **Ter Arkh** 1996;68(10):28–31 (Eng. Abstr.) **(Rus)**

[The dynamic level of beta 2-microglobulin, the basic lipid peroxidation indices and middle molecules in the blood and urine in patients with acute calculous pyelonephritis against a background of endovascular helium-neon laser therapy] Safafov RM, et al. **Urol Nefrol (Mosk)** 1997 Jan–Feb; (1):11–3 (Eng. Abstr.) **(Rus)**

[Beta-2-microglobulin determination in the clinical laboratory (letter; comment)] Borque L, et al. **Med Clin (Barc)** 1997 May 3;108(17):679. Comment on: Med Clin (Barc) 1996 May 18;106(19):751–5. **(Spa)**

BIOSYNTHESIS

Expression of human recombinant beta 2-microglobulin by Aspergillus nidulans and its activity. O'Herrin SM, et al. **Hum Immunol** 1996 Dec;51(2):63–72

External glycopeptide binding to MHC class-I in relation to expression of TAP transporters, beta 2-microglobulin and to pH. Abdel-Motal UM, et al. **Immunol Lett** 1996 Dec 1;54(1):31–5

Beta2-Microglobulin dialysis amyloid and its formation: role of 3-deoxyglucosone and advanced glycation end products [editorial] Niwa T. **Nephron** 1997;76(4):373–91 (238 ref.)

Intrathecal production of neopterin and beta 2 microglobulin in tick-borne encephalitis (TBE) compared to meningoencephalitis of other etiology. Günther G, et al. **Scand J Infect Dis** 1996;28(2):131–8

CHEMISTRY

Major histocompatibility complex class I protein conformation altered by transmembrane potential changes. Bene L, et al. **Cytometry** 1997 Apr 1;27(4):353–7

Amyloid beta 2-microglobulin is modified with N epsilon-(carboxymethyl)lysine in dialysis-related amyloidosis. Niwa T, et al. **Kidney Int** 1996 Oct; 50(4):1303–9

Mutants of human beta2-microglobulin map an immunodominant epitope within the three-stranded beta-pleated sheet. Trymbulak WP Jr, et al. **Transplantation** 1997 Aug 27;64(4):640–5

DEFICIENCY

Lack of F1 anti-parental resistance in H-2b/d F1 hybrids devoid of beta2-microglobulin. Höglund P, et al. **Eur J Immunol** 1997 Jan;27(1):342–5

Conformation and surface expression of free HLA-CW1 heavy chains in the absence of beta 2-microglobulin. Martayan A, et al. **Hum Immunol** 1997 Mar;53(1):23–33

Distinctive features of the alpha 1-domain alpha helix of HLA-C heavy chains free of beta 2-microglobulin. Setini A, et al. **Hum Immunol** 1996 Apr;46(2):69–81

Beta 2-microglobulin-dependent NK1.1+ T cells are not essential for T helper cell 2 immune responses. Brown DR, et al. **J Exp Med** 1996 Oct 1;184(4):1295–304

Defective iron homeostasis in beta 2-microglobulin knockout mice recapitulates hereditary hemochromatosis in man. Santos M, et al. **J Exp Med** 1996 Nov 1;184(5):1975–85

Enhanced human CD4+ T cell engraftment in beta2-microglobulin-deficient NOD-scid mice. Christianson SW, et al. **J Immunol** 1997 Apr 15; 158(8):3578–86

RIP-beta 2-microglobulin transgene expression restores insulitis, but not diabetes, in beta 2-microglobulin null nonobese diabetic mice. Kay TW, et al. **J Immunol** 1996 Oct 15;157(8):3688–93

Class I-deficient hemopoietic cells and nonhemopoietic cells dominantly induce unresponsiveness of natural killer cells to class I-deficient bone marrow cell grafts. Wu MF, et al. **J Immunol** 1997 Feb 15;158(4):1628–33

Enhanced mucosal and systemic immune responses to intestinal reovirus infection in beta2-microglobulin-deficient mice. Major AS, et al. **J Virol** 1997 Aug;71(8):5782–9

Vaccination protects beta 2 microglobulin deficient mice from immune mediated mortality but not from persisting viral infection. Hildeman D, et al. **Vaccine** 1996 Sep; 14(13):1223–9

DRUG EFFECTS

Effect of 1,25(OH)2 vitamin D3 on circulating insulin-like growth factor-I and beta 2 microglobulin in patients with osteoporosis. Zofková I, et al. **Calcif Tissue Int** 1997 Mar; 60(3):236–9

GENETICS

Autoantibody production and cytokine profiles of MHC class I (beta2-microglobulin) gene deleted New Zealand black (NZB) mice. Chen SY, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):318–27

Selection for beta 2-microglobulin mutation in mismatch repair-defective colorectal carcinomas. Bicknell DC, et al. **Curr Biol** 1996 Dec 1;6(12):1695–7

A recombinant single-chain HLA-A2.1 molecule, with a cis active beta-2-microglobulin domain, is biologically active in peptide binding and antigen presentation. Lee L, et al. **Hum Immunol** 1996 Aug;49(1):28–37

Expression of HLA class I molecules assembled with structural variants of human beta2-microglobulin. Trymbulak WP, et al. **Immunogenetics** 1997;46(5):418–26

Structural and functional analysis of beta2 microglobulin abnormalities in human lung and breast cancer. Chen HL, et al. **Int J Cancer** 1996 Sep 17;67(6):756–63

Synthesis and turnover of beta2-microglobulin in Ad12-transformed cells defective in assembly and transport of class I major histocompatibility complex molecules. Mey-Tal SV, et al. **J Biol Chem** 1997 Jan 3;272(1):353–61

Binding of H-2Kb-specific peptides to TAP and major histocompatibility complex class I in microsomes from wild-type, TAP1, and beta2-microglobulin mutant mice. Wang P, et al. **J Biol Chem** 1996 Oct 4;271(40):24830–5

RIP-beta 2-microglobulin transgene expression restores insulitis, but not diabetes, in beta 2-microglobulin null nonobese diabetic mice. Kay TW, et al. **J Immunol** 1996 Oct 15;157(8):3688–93

Influenza infection of beta 2-microglobulin-deficient (beta 2m-/-) mice reveals a loss of CD4+ T cell functions with aging. Taylor SF, et al. **J Immunol** 1997 Oct 1; 159(7):3453–9

A comparative analysis of neuroblastic and substrate-adherent human neuroblastoma cell lines. La Quaglia MP, et al. **J Pediatr Surg** 1996 Feb;31(2):315–8

Polymerization of normal and intact beta 2-microglobulin as the amyloidogenic protein in dialysis-amyloidosis. Campistol JM, et al. **Kidney Int** 1996 Oct;50(4):1262–7

HLA-H and associated proteins in patients with hemochromatosis. Beutler E, et al. **Mol Med** 1997 Jun; 3(6):397–402

Mutants of human beta2-microglobulin map an immunodominant epitope within the three-stranded beta-pleated sheet. Trymbulak WP Jr, et al. **Transplantation** 1997 Aug 27;64(4):640–5

IMMUNOLOGY

Allospecific cytotoxic T cells generated from beta 2m-/- mice in primary MLC: analysis of activation requirements, specificity, and phenotype. Lamousé-Smith E, et al. **Cell Immunol** 1997 Aug 1;179(2):107–15

Altered kinetics of CD4+ T cell proliferation and interferon-gamma production in the absence of CD8+ T lymphocytes in virus-infected beta2-microglobulin-deficient mice. Vikingsson A, et al. **Cell Immunol** 1996 Nov 1;173(2):261–8

Immunohaematological findings in healthy and HIV-1 infected adults in Dar es Salaam, Tanzania. Urassa WK, et al. **East Afr Med J** 1996 Oct;73(10):670–4

The cell-mediated immune response against lymphocytic choriomeningitis virus in beta 2-microglobulin deficient mice. Quinn DG, et al. **Immunol Rev** 1995 Dec;148:151–69 (95 ref.)

Importance of beta2-microglobulin in murine resistance to mucosal and systemic candidiasis. Balish E, et al. **Infect Immun** 1996 Dec;64(12):5092–7

The recognition of the nonclassical major histocompatibility complex (MHC) class I molecule, T10, by the gammadelta T cell, G8. Crowley MP, et al. **J Exp Med** 1997 Apr 7; 185(7):1223–30

Control of immunodeficiency and lymphoproliferation in mouse AIDS: studies of mice deficient in CD8+ T cells or perforin. Tang Y, et al. **J Virol** 1997 Mar;71(3):1808–13

The class I MHC homologue of human cytomegalovirus inhibits attack by natural killer cells [see comments] Reyburn HT, et al. **Nature** 1997 Apr 3;386(6624):514–7. Comment in: Nature 1997 Apr 3;386(6624):446–7.

MHC class I phenotype and function of human beta 2-microglobulin transgenic murine lymphocytes. Bjerager L, et al. **Scand J Immunol** 1996 Dec;44(6):615–22

Comparison of immunological changes between subcutaneous and intravenous route of administration of IL-2 in cancer patients. Nouri AM, et al. **Urol Int** 1996; 56(1):1–5

ISOLATION & PURIFICATION

Beta 2-microglobulin removal by synthetic dialysis membranes. Mechanisms and kinetics of the molecule. Ronco C, et al. **Int J Artif Organs** 1997 Mar;20(3):136–43

A simple method for the preparation and purification of C1 complement cleaved beta 2-microglobulin from human serum. Nissen MH, et al. **J Immunol Methods** 1997 Jun 23;205(1):29–33

Inorganic pyrophosphatase-labelled enzyme immunoassay for beta 2-microglobulin. Peuravuori H, et al. **J Immunol Methods** 1997 May 26;204(2):161–7

Purification and cellular localization of beta2-microglobulin in the testis. O'Bryan MK, et al. **Life Sci** 1997;61(5):487–94

Monomeric and dimeric beta 2-microglobulin may be extracted from amyloid deposits in vitro. García-García M, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1192–8

Purification of bovine beta 2-microglobulin from colostrum and its complete amino acid sequence. Hoshi F, et al. **Vet Immunol Immunopathol** 1996 Sep;53(1-2):29–38

METABOLISM

Mechanism of class I assembly with beta 2 microglobulin and loading with peptide. Hansen TH, et al. **Adv Immunol** 1997;64:105–37 (170 ref.)

Dependence of the hazard of AIDS on markers. Yong FH, et al. **AIDS** 1997 Feb;11(2):217–28

Detection and quantitation of beta-2-microglobulin glycosylated end products in human serum by matrix-assisted laser desorption/ionization mass spectrometry. Tang X, et al. **Anal Chem** 1996 Nov 1; 68(21):3740–5

Severe destructive beta 2-microglobulin arthropathy after 28 years of hemodialysis. Appel H, et al. **Arthritis Rheum** 1997 Apr;40(4):709

Long-term clinical evaluation of an adsorbent column (BM-01) of direct hemoperfusion type for beta 2-microglobulin on the treatment of dialysis-related amyloidosis. Gejyo F, et al. **Artif Organs** 1995 Dec; 19(12):1222–6

Alpha 2-macroglobulin protects some of the protein constituents of dialysis-associated amyloidosis from protease degradation. Gouin-Charnet A, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):48–51

Peptide interaction with a class I major histocompatibility complex-encoded molecule: allosteric control of the ternary complex stability. Gakamsky DM, et al. **Biochemistry** 1996 Nov 26;35(47):14841–8

Prostaglandin E2 suppresses the expression and release of beta 2-microglobulin from mitogen-activated normal human mononuclear cells. Tsai CY, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Sep; 56(3):143–51

New evidence that serum beta(2)-microglobulin behaves as a biological marker of bone remodelling in women. Ripoll E, et al. **Eur J Clin Invest** 1996 Aug;26(8):681–5

Quantitative assessment of serum beta-2-microglobulin in liver transplant recipients and relationship to liver graft rejection. Vivarelli M, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1215–9

A low serum beta 2-microglobulin level despite bulky tumor is a characteristic feature of primary mediastinal (thymic) large B-cell lymphoma: implications for serologic staging [letter] Lazzarino M, et al. **Eur J Haematol** 1996 Oct; 57(4):331–3

Soluble histocompatibility class I antigens and beta 2-microglobulin in pregnant females and cord blood samples. Inostroza J, et al. **Hum Immunol** 1997 Apr 15; 54(1):63–8

Increased clearance of IgG in mice that lack beta 2-microglobulin: possible protective role of FcRn. Israel EJ, et al. **Immunology** 1996 Dec;89(4):573–8

Serum beta 2-microglobulin as a tumour marker in space occupying lesions of central nervous system. Kumar S, et al. **Indian J Pathol Microbiol** 1995 Jan;38(1):43–7

Beta 2-microglobulin amyloidosis in chronic dialysis patients: a case report and review of the literature. Farrell J, et al. **J Am Soc Nephrol** 1997 Mar;8(3):509–14 (26 ref.)

Renal transplantation relieves the symptoms but does not reverse beta 2-microglobulin amyloidosis. Mourad G, et al. **J Am Soc Nephrol** 1996 May;7(5):798–804

The hemochromatosis founder mutation in HLA-H disrupts beta2-microglobulin interaction and cell surface expression. Feder JN, et al. **J Biol Chem** 1997 May 30;272(22):14025–8

Early levels of CD4, neopterin, and beta 2-microglobulin indicate future disease progression. Shi M, et al. **J Clin Immunol** 1997 Jan;17(1):43–52

HLA-B27 heavy chains contribute to spontaneous inflammatory disease in B27/human beta2-microglobulin (beta2m) double transgenic mice with disrupted mouse beta2m. Khare SD, et al. **J Clin Invest** 1996 Dec 15; 98(12):2746–55

The receptor for advanced glycation end products (RAGE) is a central mediator of the interaction of AGE-beta2microglobulin with human mononuclear phagocytes via an oxidant-sensitive pathway. Implications for the pathogenesis of dialysis-related amyloidosis. Miyata T, et al. **J Clin Invest** 1996 Sep 1;98(5):1088–94

Beta 2-microglobulin-dependent T cells are dispensable for allergen-induced T helper 2 responses. Zhang Y, et al. **J Exp Med** 1996 Oct 1;184(4):1507–12

Estimation of serum beta-2-microglobulin in children with malabsorption disorders syndrome. Kochańska-Dziurowicz A, et al. **J Gastroenterol** 1997 Jun; 32(3):312–7

The mechanisms of peptide exchange and beta 2-microglobulin exchange on cell surface Ld and Kb molecules are noncooperative. Cook JR, et al. **J Immunol** 1996 Sep 15;157(6):2256–61

The tetraspanin protein CD82 associates with both free HLA class I heavy chain and heterodimeric beta 2-microglobulin complexes. Lagaudrière-Gesbert C, et al. **J Immunol** 1997 Mar 15;158(6):2790–7

Prominence of beta 2-microglobulin, class I heavy chain conformation, and tapasin in the interactions of class I heavy chain with calreticulin and the transporter associated with antigen processing. Solheim JC, et al. **J Immunol** 1997

Mar 1;158(5):2236-41
Invariant chain association with MHC class I: preference for HLA class I/beta 2-microglobulin heterodimers, specificity, and influence of the MHC peptide-binding groove. Vigna JL, et al. **J Immunol** 1996 Nov 15; 157(10):4503-10
Pharmacodynamics of recombinant IFN-beta during long-term treatment of malignant melanoma. Fierlbeck G, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):777-81
Polymerization of normal and intact beta 2-microglobulin as the amyloidogenic protein in dialysis-amyloidosis. Campistol JM, et al. **Kidney Int** 1996 Oct;50(4):1262-7
Interaction between beta 2-microglobulin and advanced glycation end products in the development of dialysis related-amyloidosis. Hou FF, et al. **Kidney Int** 1997 May; 51(5):1514-9
Histological prevalence of beta 2-microglobulin amyloidosis in hemodialysis: a prospective post-mortem study. Jadoul M, et al. **Kidney Int** 1997 Jun;51(6):1928-32
Amyloid beta 2-microglobulin is modified with imidazolone, a novel advanced glycation end product, in dialysis-related amyloidosis. Niwa T, et al. **Kidney Int** 1997 Jan; 51(1):187-94
Immunoglobulin and beta 2-microglobulin concentrations in bronchoalveolar lavage of children and adults. Ratjen F, et al. **Lung** 1996;174(6):383-91
Dialysis amyloidosis: clinical aspects and therapeutic approach. Brancaccio D, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:102-5 (22 ref.)
Dialysis-related amyloidosis: visceral involvement and protein constituents. Campistol JM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:142-5 (44 ref.)
beta 2-microglobulin and amyloidosis: who is at risk? Davison AM. **Nephrol Dial Transplant** 1995;10 Suppl 10:48-51 (22 ref.)
Treatment of beta 2-microglobulin amyloidosis by extracorporeal therapies other than haemodialysis, by medication and by surgery. Drüeke TB. **Nephrol Dial Transplant** 1996;11 Suppl 2:150-3 (25 ref.)
The effect of dialysis membrane on serum beta 2-microglobulin (beta 2M) in chronic haemodialysis patients [letter] Farrell J, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):856
New aspects in the pathogenesis of dialysis-related amyloidosis: role of beta 2-microglobulin modified with advanced glycation end products in bone and joint destruction. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 2:140-3 (17 ref.)
Advanced glycation of beta 2-microglobulin in the pathogenesis of bone lesions in dialysis-associated amyloidosis. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 3:86-90 (37 ref.)
Diagnostic aspects of beta 2-microglobulin amyloidosis. Schaeffer J, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:144-6 (28 ref.)
beta 2-Microglobulin amyloidosis: effect of ESRF treatment modality and dialysis membrane type. Van Ypersele de Strihou C. **Nephrol Dial Transplant** 1996;11 Suppl 2:147-9
Beta-2-microglobulin-associated amyloidosis. Floege J, et al. **Nephron** 1996;72(1):9-26
Clinical usefulness of frequent short-time hemodiafiltration: trial for the effective removal of beta-2-microglobulin. Kubo S, et al. **Nephron** 1996;72(1):93-7
Appearance of beta-2-microglobulin in rat hypothalamic magnocellular neurons after hypophysectomy. Shinoda M, et al. **Neuroendocrinology** 1996 Oct;64(4):268-73
Beta 2-microglobulin and HLA-DR expression in relation to the presence of Epstein-Barr virus in nasopharyngeal carcinomas. Kouvidou C, et al. **Pathobiology** 1995; 63(6):320-7
The three-dimensional structure of an H-2Ld-peptide complex explains the unique interaction of Ld with beta-2 microglobulin and peptide. Balendiran GK, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6880-5
Ultrastructural evidence for colocalization of kappa light chain- and beta 2-microglobulin-derived amyloids using double labelling immunogold electron microscopy. Takahashi M, et al. **Virchows Arch** 1996 Dec;429(6):383-8
[Level of beta 2-microglobulin in serum of patients with acute viral hepatitis types A, B and C] Tomasiewicz K, et al. **Przegl Epidemiol** 1996;50(3):259-64 (Eng. Abstr.) **(Pol)**
[Prognostic significance of beta-2-microglobulin in multiple myeloma] Podol'tseva EI, et al. **Vopr Onkol** 1996;42(4):32-5 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Expression of human recombinant beta 2-microglobulin by Aspergillus nidulans and its activity. O'Herrin SM, et al. **Hum Immunol** 1996 Dec;51(2):63-72
Beta-microglobulin modified with advanced glycation end-products induces monocyte chemotaxis in vivo [letter] Cai Z, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):1189-91

PHYSIOLOGY

Analysis of the requirement for beta 2-microglobulin for expression and formation of human CD1 antigens. Bauer A, et al. **Eur J Immunol** 1997 Jun;27(6):1366-73
A recombinant single-chain HLA-A2.1 molecule, with a cis active beta-2-microglobulin domain, is biologically active in peptide binding and antigen presentation. Lee L, et al. **Hum Immunol** 1996 Aug;49(1):28-37
Beta2-microglobulin-deficient mice are resistant to bullous pemphigoid. Liu Z, et al. **J Exp Med** 1997 Aug 29; 186(5):777-83
HLA-A2.1-restricted education and cytolytic activity of CD8(+) T lymphocytes from beta2 microglobulin (beta2m) HLA-A2.1 monochain transgenic H-2Db beta2m double knockout mice. Pascolo S, et al. **J Exp Med** 1997 Jun 16; 185(12):2043-51
Mechanisms of heterosubtypic immunity to lethal influenza A virus infection in fully immunocompetent, T cell-depleted, beta2-microglobulin-deficient, and J chain-deficient mice. Epstein SL, et al. **J Immunol** 1997 Feb 1;158(3):1222-30
Beta 2-microglobulin and calnexin can independently promote folding and disulfide bond formation in class I histocompatibility proteins. Tector M, et al. **Mol Immunol** 1997 Apr;34(5):401-8
Advanced glycation end products and beta2-microglobulin. The story unfolds [editorial] Miyata T. **Nephrol Dial Transplant** 1996 Jun;11(6):934-6 (14 ref.)
Intestinal inflammation and barrier function in HLA-B27/beta 2-microglobulin transgenic rats. Lundin PD, et al. **Scand J Gastroenterol** 1997 Jul;32(7):700-5

URINE

Indices of renal tubular function in perinatal asphyxia. Willis F, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul; 77(1):F57-60
Effects of cadmium and lead exposure on urinary N-acetyl-beta-D-glucosaminidase, beta 2-microglobulin and metallothionein of workers. Kawada T, et al. **Asia Pac J Public Health** 1995;8(2):91-4
Use of urinary beta-2-microglobulin to predict severe renal damage in fetal obstructive uropathy. Freedman AL, et al. **Fetal Diagn Ther** 1997 Jan-Feb;12(1):1-6 (29 ref.)
Renal dysfunction detected by beta-2 microglobulinuria in sick neonates. Mehta KP, et al. **Indian Pediatr** 1997 Feb; 34(2):107-11
Beta-2 microglobulinuria and long-term outcome following curative surgery for primary hyperparathyroidism. Nadersepahi A, et al. **Int Surg** 1996 Oct-Dec;81(4):393-4
Urinary excretion of beta 2-microglobulin predicts renal outcome in patients with idiopathic membranous nephropathy. Reichert LJ, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1666-9
Elevated beta 2-microglobulin after nephrectomy [letter] Tyner M. **J Occup Environ Med** 1997 Jan;39(1):11
Monocyte/macrophage response to beta 2-microglobulin modified with advanced glycation end products. Miyata T, et al. **Kidney Int** 1996 Feb;49(2):538-50
Urinary N-acetyl-beta-D-glucosaminidase and beta 2-microglobulin excretion in primary nephrotic children. Calişkan S, et al. **Nephron** 1996;74(2):401-4
Urinary beta 2-microglobulin as a marker for vesicoureteral reflux. Assadi FK. **Pediatr Nephrol** 1996 Oct;10(5):642-4
In fetuses with isolated hydronephrosis, urinary beta 2-microglobulin and N-acetyl-beta-D-glucosaminidase (NAG) have a limited role in the prediction of postnatal renal function. Tassis BM, et al. **Prenat Diagn** 1996 Dec; 16(12):1087-93
Biological monitoring of cadmium exposure and renal effects in a population group residing in a polluted area in China. Nordberg GF, et al. **Sci Total Environ** 1997 Jun 20; 199(1-2):111-4
Reproducibility of urinary beta 2-microglobulin and cadmium excretion among residents in a cadmium-polluted area during a 3-year period. Arisawa K, et al. **Toxicol Lett** 1997 Apr 28;91(2):147-52
Tubular markers in children with insulin-dependent diabetes mellitus. Calişkan S, et al. **Turk J Pediatr** 1997 Apr-Jun; 39(2):213-8

BETA-NAPHTHOFLAVONE

PHARMACOLOGY

Changes in endoplasmic reticulum associated with beta-naphthoflavone-inducible cytochrome P450 in murine liver: a quantitative analysis. Oladapo OO, et al. **Afr J Med Med Sci** 1995 Dec;24(4):389-94
Modulation of aflatoxin B1 biotransformation by beta-naphthoflavone in isolated rabbit lung cells. Im SH, et al. **Arch Toxicol** 1996;71(1-2):72-9
Induction of CYP1A1 by beta-naphthoflavone in IEC-18 rat intestinal epithelial cells and potentiation of induction by dibutyryl cAMP. Zhang QY, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):623-6
High induction of phenol UDP-glucuronosyltransferase in the kidney medulla of beta-naphthoflavone-treated rats. Yokota H, et al. **Biochim Biophys Acta** 1997 Aug 29; 1336(2):165-70
Effect of glucosinolate breakdown products on beta-naphthoflavone-induced expression of human cytochrome P450 1A1 via the Ah receptor in Hep G2 cells. Wang H, et al. **Cancer Lett** 1997 Mar 19;114(1-2):121-5
NADPH-dependent oxidation of benzidine by rat liver. Lakshmi VM, et al. **Carcinogenesis** 1996 Sep;17(9):1941-7
The influence of age and some inducers on UDP-glucuronyltransferase activity. Plewka A, et al. **Exp Gerontol** 1997 May-Jun;32(3):305-13
Monooxygenation, cytochrome P4501A1 and P4501A1-mRNA in rat liver slices exposed to beta-naphthoflavone and dexamethasone in vitro. Müller D, et al. **Exp Toxicol Pathol** 1996 Jul;48(5):433-8
Strain-specific enhancement or inhibition of coumarin hepatotoxicity in mice following pretreatment with two different liver enzyme-inducing agents. Cottrell S, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):47-55
The effect of high and low dosages of paraoxon in beta-naphthoflavone-treated rats. Watson AM, et al. **J Biochem Toxicol** 1996;11(6):263-8
Constitutive and beta-naphthoflavone-induced expression of the human gamma-glutamylcysteine synthetase heavy subunit gene is regulated by a distal antioxidant response element/TRE sequence. Mulcahy RT, et al. **J Biol Chem** 1997 Mar 14;272(11):7445-54
7-Ethoxy-3,4-dimethylcoumarin: a substrate for a cytochrome P450-mediated mono-oxygenase activity that is highly induced by phenobarbitone and beta-naphthoflavone. Giurnazi AM, et al. **J Pharm Pharmacol** 1996 Jul;48(7):729-33
A transferable, beta-naphthoflavone-inducible, hyperpolarizing factor is synthesized by native and cultured porcine coronary endothelial cells. Popp R, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):699-709
Handling stress does not affect the expression of hepatic heat shock protein 70 and conjugation enzymes in rainbow trout treated with beta-naphthoflavone. Vijayan MM, et al. **Life Sci** 1997;61(2):117-27
Influence of beta-naphthoflavone and methoxychlor pretreatment on the biotransformation and estrogenic activity of methoxychlor in channel catfish (Ictalurus punctatus). Schlenk D, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):349-56
CYP1A induction by beta-naphthoflavone, Aroclor 1254, and 2,3,7,8-tetrachlorodibenzo-p-dioxin and its influence on aflatoxin B1 metabolism and DNA adduction in zebrafish. Troxel CM, et al. **Toxicol Appl Pharmacol** 1997 Sep;146(1):69-78
Beta-naphthoflavone induced CYP1A1 and 1A3 proteins in the liver of rainbow trout (Oncorhynchus mykiss). Gooneratne R, et al. **Xenobiotica** 1997 Feb;27(2):175-87

TOXICITY

Ethoxycoumarin O-deethylation (ECOD) activity in rat liver slices exposed to beta-naphthoflavone (BNF) in vitro. Glockner R, et al. **Exp Toxicol Pathol** 1995 Sep; 47(4):319-24
Distribution of glutathione S-transferase isoforms in rat liver after induction by beta-naphthoflavone or 3-methylcholanthrene. Sippel H, et al. **Pharmacol Toxicol** 1996 Aug;79(2):80-6

BETA-NAPHTHYLAMINE see **2-NAPHTHYLAMINE**

BETA PARTICLES see **BETA RAYS**

BETA RAYS

Feasibility of intracoronary beta-irradiation to reduce restenosis after balloon angioplasty. A clinical pilot study [see comments] Verin V, et al. **Circulation** 1997 Mar 4; 95(5):1138-44. Comment in: Circulation 1997 Mar 4;95(5):1095-7.
Beta particle attenuation characteristics of CaSO4. Abdulhay I, et al. **Health Phys** 1997 May;72(5):784-7
Effects of beta radiation from organically bound tritium on cultured mouse embryonic mid brain cells [see comments] Wang B, et al. **Health Phys** 1996 Dec;71(6):915-21. Comment in: Health Phys 1997 Aug;73(2):397-8.
Theoretical calculations of dose distributions for beta-ray eye applicators. Hokkanen J, et al. **Med Phys** 1997 Feb; 24(2):211-3
Microdosimetry and radiocurability: modelling targeted therapy with beta-emitters. Nahum AE. **Phys Med Biol** 1996 Oct;41(10):1957-72 (34 ref.)
Pulmonary carcinogenicity of relatively low doses of beta-particle radiation from inhaled 144CeO2 in rats. Lundgren DL, et al. **Radiat Res** 1996 Nov;146(5):525-35

BETA RHYTHM

Neurophysiological signs of cocaine dependence: increased electroencephalogram beta during withdrawal. Herning RI, et al. **Biol Psychiatry** 1997 Jun 1;41(11):1087-94
Studies on quantitative beta activity in EEG background changes produced by intravenous diazepam in epilepsy. Huang ZC, et al. **Clin Electroencephalogr** 1997 Jul; 28(3):172-8
On the existence of different types of central beta rhythms below 30 Hz. Pfurtscheller G, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 102(4):316-25
Post-movement synchronization of beta rhythms in the EEG over the cortical foot area in man. Neuper C, et al. **Neurosci Lett** 1996 Sep 20;216(1):17-20
[Spatial organization of the EEG beta-rhythm during rhythmic movements in children] Kurganskaia ME. **Fiziol Cheloveka** 1996 Sep-Oct;22(5):132-4 **(Rus)**

PSYCHOLOGY

Alpha brainwave training and perception of time passing: preliminary findings. Wacker MS.
Biofeedback Self Regul 1996 Dec;21(4):303–9

BETA-SHEET CONFORMATION, PROTEIN see **PROTEIN STRUCTURE, SECONDARY**

BETA-THALASSEMIA

Immune status and the immune response to hepatitis B virus vaccine in thalassemic patients after allogeneic bone marrow transplantation. Li Volti S, et al.
Bone Marrow Transplant 1997 Jan;19(2):157–60

Transgenic and gene knock-out mouse models of sickle cell anemia and the thalassemias. Pászty C.
Curr Opin Hematol 1997 Mar;4(2):88–93 (49 ref.)

Is it reactivation of fetal hemoglobin synthesis after transplantation of cord blood stem cells from a donor with heterozygous sickle cell anemia or beta-thalassemia? [letter; comment] Ohnuma K, et al. **J Pediatr** 1997 Jun; 130(6):1008–9. Comment on: J Pediatr 1996 Feb;128(2):241–3.

Beta-thalassemia major and successful pregnancy. Kumar RM, et al. **J Reprod Med** 1997 May;42(5):294–8

[Oromaxillofacial changes in thalassemia major] De Mattia D, et al. **Minerva Pediatr** 1996 Jan–Feb;48(1–2):11–20 (Eng. Abstr.) **(Ita)**

BLOOD

Serum ferritin levels in carriers of beta-thalassaemia trait [letter; comment] Madan N, et al. **Acta Haematol** 1996; 96(4):267. Comment on: Acta Haematol 1995;94(1):7–9.

Vitamin D metabolites (25-hydroxyvitamin D, 24,25-dihydroxyvitamin D and 1,25-dihydroxyvitamin D) and osteocalcin in beta-thalassaemia. Moulas A, et al.
Acta Paediatr 1997 Jun;86(6):594–9

Hemoglobin A2 levels in healthy persons, sickle cell disease, sickle cell trait, and beta-thalassemia by capillary isoelectric focusing. Craver RD, et al.
Am J Clin Pathol 1997 Jan;107(1):88–91

beta-Thalassemia and hemoglobin types in Argentina: determination of most frequent mutations. Soria NW, et al. **Am J Hematol** 1997 Feb;54(2):160–3

Transfusion-induced hypoxemia in beta-thalassaemia [letter] Tassiopoulos T, et al. **Am J Hematol** 1996 Nov;53(3):206

Oxidative interaction of unpaired hemoglobin chains with lipids and proteins: a key for modified serum lipoproteins in thalassemia. Altamentova SM, et al.
Arch Biochem Biophys 1997 Sep 1;345(1):39–46

Plasma lipoprotein composition, apolipoprotein(a) concentration and isoforms in beta-thalassemia. Maioli M, et al. **Atherosclerosis** 1997 May;131(1):127–33

Altered membrane phospholipid organization and erythrophagocytosis in E beta-thalassemia. Srinivasan PT, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):65–70

A shortened life span of EKLF-/- adult erythrocytes, due to a deficiency of beta-globin chains, is ameliorated by human gamma-globin chains. Lim SK, et al. **Blood** 1997 Aug 1;90(3):1291–9

Oxidative stress and antioxidant status in beta-thalassemia major: iron overload and depletion of lipid-soluble antioxidants. Livrea MA, et al. **Blood** 1996 Nov 1; 88(9):3608–14

Ubiquitin aldehyde increases adenosine triphosphate-dependent proteolysis of hemoglobin alpha-subunits in beta-thalassemic hemolysates. Shaeffer JR, et al. **Blood** 1997 Aug 1;90(3):1300–8

In-vivo platelet activation correlates with red cell anionic phospholipid exposure in patients with beta-thalassaemia major. Ruf A, et al. **Br J Haematol** 1997 Jul;98(1):51–6

The presence of antibodies against HIV peptides in the sera of alloimmune mice and thalassemic patients is due to a polyclonal activation mechanism. Fraziano M, et al.
Clin Immunol Immunopathol 1997 Aug;84(2):202–7

Reticulocyte counting in thalassaemia. Paterakis GS.
Clin Lab Haematol 1996 Dec;18 Suppl 1:17–28 (18 ref.)

Interleukin-10 and beta-thalassaemia major: what role? [letter] Perrella O, et al. **Clin Lab Haematol** 1996 Dec; 18(4):297–8

Pathobiology of thalassemic erythrocytes. Schrier SL.
Curr Opin Hematol 1997 Mar;4(2):75–8 (20 ref.)

Increased serum levels of macrophage colony-stimulating factor (M-CSF) in alpha- and beta-thalassaemia syndromes: correlation with anaemia and monocyte activation. Wiener E, et al. **Eur J Haematol** 1996 Nov; 57(5):364–9

Hydroxyl radical generation in beta-thalassemic red blood cells. Grinberg LN, et al. **Free Radic Biol Med** 1995 Mar; 18(3):611–5

Genetic heterogeneity of beta-thalassemia in populations of the Iberian Peninsula. Ribeiro ML, et al. **Hemoglobin** 1997 May;21(3):261–9

Clinical and hematological response to hydroxyurea in a patient with Hb Lepore/beta-thalassemia. Rigano P, et al. **Hemoglobin** 1997 May;21(3):219–26

Alpha-, beta-, and gamma-mRNA levels in beta-thalassemia; transcriptional and translational differences in heterozygotes, homozygotes, and compound heterozygotes. Smetanina NS, et al. **Hemoglobin** 1997 Jan; 21(1):27–39

Elevated zinc protoporphyrin associated with thalassemia trait and hemoglobin E. Graham EA, et al. **J Pediatr** 1996 Jul;129(1):105–10

Serum erythropoietin levels in patients with beta thalassemia major and intermedia. Nişli G, et al.
Pediatr Hematol Oncol 1997 Mar–Apr;14(2):161–7

Increased procoagulant activity of red blood cells from patients with homozygous sickle cell disease and beta-thalassemia. Helley D, et al. **Thromb Haemost** 1996 Sep;76(3):322–7

Invasion and growth of Plasmodium falciparum is inhibited in fractionated thalassaemic erythrocytes. Senok AC, et al. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr;91(2):138–43

[The association of beta zero-thalassemia and Hb D Punjab in a family of Indian origin. The second case reported in Spain] Ropero P, et al. **Med Clin (Barc)** 1997 Mar 15; 108(10):385–8 (34 ref.) (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Lack of transmission of hepatitis C in household contacts of children with homozygous beta-thalassaemia. Papanastasiou DA, et al. **Acta Haematol** 1997;97(3):168–73

Longitudinal monitoring of bone mineral density in thalassemic patients. Genetic structure and osteoporosis. Filosa A, et al. **Acta Paediatr** 1997 Apr;86(4):342–6

Psychosocial aspects and psychiatric disorders in children with thalassemia major. Aydin B, et al.
Acta Paediatr Jpn 1997 Jun;39(3):354–7

Infertility in beta-thalassemia major [letter; comment] Surbek DV, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1080–1. Comment on: Am J Obstet Gynecol 1996 Mar;174(3):914–8.

Amenorrhea in beta-homozygous thalassemia major. Tolis G, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:274–9 (40 ref.)

Hypertriglyceridaemia-thalassaemia syndrome. Gomber S, et al. **Ann Trop Paediatr** 1996 Dec;16(4):359–60

Nutritional support and growth in thalassaemia major. Fuchs GJ, et al. **Arch Dis Child** 1997 Jun;76(6):509–12

Human T-lymphotropic virus type II infection in Vietnamese thalassemic patients. Lin MT, et al. **Arch Virol** 1997; 142(7):1429–40

You're the flight surgeon: sickle cell trait and beta-thalassemia. Bendrick GA.
Aviat Space Environ Med 1997 Mar;68(3):244–5

Long-term efficacy of alpha-interferon in beta-thalassemics with chronic hepatitis C. Di Marco V, et al. **Blood** 1997 Sep 15;90(6):2207–12

Heart transplantation for end-stage heart failure caused by iron overload. Koerner MM, et al. **Br J Haematol** 1997 May;97(2):293–6

Growth deficiency in polytransfused beta-thalassaemia patients is not growth hormone dependent. Cavallo L, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):701–6

Salmonella neck abscess in a patient with beta-thalassemia major: case report and review. Behr MA, et al.
Clin Infect Dis 1996 Aug;23(2):404–5 (8 ref.)

Incidence and outcome of Yersinia enterocolitica infection in thalassemic patients. Cherchi GB, et al.
Contrib Microbiol Immunol 1995;13:16–8

Relation of haemolytic anaemia and erythrocyte-bound IgG in alpha- and beta-thalassaemic syndromes. Chinprasertsuk S, et al. **Eur J Haematol** 1997 Feb;58(2):86–91

Fatal bone marrow embolism in a patient with sickle cell beta + thalassaemia. Zaidi Y, et al. **J Clin Pathol** 1996 Sep;49(9):774–5

Paradoxical effect of cytotoxic chemotherapy on anemia in cancer patients with beta-thalassemia minor [letter] Del Mastro L, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):455–6

Prevalence of scoliosis in beta-thalassemia. Korovessis PG, et al. **J Spinal Disord** 1996 Apr;9(2):170–3

Interleukin-1-beta, tumour necrosis factor-alpha, islet-cell antibody, and insulin secretion in children with thalassemia major on long-term blood transfusion. el Nawawy A, et al. **J Trop Pediatr** 1996 Dec;42(6):362–4

Hepatitis E virus infection in patients from Saudi Arabia with sickle cell anaemia and beta-thalassemia major: possible transmission by blood transfusion. al-Fawaz I, et al.
J Viral Hepat 1996 Jul;3(4):203–5

Prevalence of hepatitis B infection in beta thalassaemia major patients [letter] Mujeeb SA, et al.
JPMA J Pak Med Assoc 1996 Apr;46(4):93

Management of sickle cell/beta thalassemia patient with severe odontogenic infection. Ziccardi VB, et al.
N Y State Dent J 1996 Oct;62(8):28–32

Life-threatening anaemia caused by B19 parvovirus infection in a non-immunocompromised patient. Biesma DH, et al.
Neth J Med 1997 Feb;50(2):81–4

The course of Plasmodium berghei, P. chabaudi and P. yoelii infections in beta-thalassaemic mice. Clarebout G, et al.
Parasitology 1996 Mar;112 (Pt 3):269–76

Malnutrition and growth abnormalities in children with beta thalassemia major. Tienboon P, et al.
Southeast Asian J Trop Med Public Health 1996 Jun; 27(2):356–61

Incidence of scoliosis in beta-thalassemia and follow-up evaluation. Korovessis P, et al. **Spine** 1996 Aug 1; 21(15):1798–801

Overestimation of fetomaternal haemorrhage by the acid-elution technique in mothers with beta-thalassaemia minor. Goldman M, et al. **Transfus Med** 1991 Jun; 1(2):129–32

Prevalence of hepatitis C virus infection among beta-thalassaemia major patients. Abdul Mujeeb S, et al. **Trop Doct** 1997 Apr;27(2):105

[Clinical case of the month. Osteoporosis and beta-thalassemia] Halkin V, et al. **Rev Med Liege** 1997 Mar; 52(3):138–41 (29 ref.) **(Fre)**

[Spinal cord compression by extramedullary hematopoiesis in thalassemia major] Müller-Lisse GU, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Nov;165(5):505–7 (8 ref.) **(Ger)**

[Osteopenia in beta-thalassemia major] Brändle M, et al.
Schweiz Med Wochenschr 1996 Nov 2;126(44):1867–74 (Eng. Abstr.) **(Ger)**

[Oromaxillofacial changes in thalassemia major] De Mattia D, et al. **Minerva Pediatr** 1996 Jan–Feb;48(1–2):11–20 (Eng. Abstr.) **(Ita)**

[Celiac disease associated with major thalassemia. A case report] Mangiagli A, et al. **Minerva Pediatr** 1996 Sep; 48(9):401–5 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

The value of the MCV index in the diagnosis of thalassemic and nonthalassemic microcytosis [letter; comment] Wentworth P, et al. **Am J Clin Pathol** 1997 May;107(5):619 . Comment on: Am J Clin Pathol 1996 Aug;106(2):201–5.

Prenatal diagnosis based on simultaneous DNA analysis for alpha- and beta-globin genes [letter] Oron-Karni V, et al.
Am J Hematol 1996 Nov;53(3):203–4

Early prenatal diagnosis of beta-thalassaemia in Singapore. Ng IS, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):779–82

A rapid anion exchange high-performance liquid chromatography method for the measurement of HbA2 in whole blood. Keevil BG, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):253–6

Multiplex mutagenically separated PCR: diagnosis of beta-thalassemia and hemoglobin variants. Chang JG, et al. **Biotechniques** 1997 Mar;22(3):520–7

Validation of an automated HPLC method for quantification of hemoglobin S. Fisher SI, et al. **Clin Chem** 1997 Sep; 43(9):1667–9

Reticulocyte counting in thalassaemia. Paterakis GS.
Clin Lab Haematol 1996 Dec;18 Suppl 1:17–28 (18 ref.)

Detection of haemoglobin variants for the diagnosis of beta thalassaemia & other haemoglobinopathies using anion exchange high performance liquid chromatography. Rao VB, et al. **Indian J Med Res** 1996 Dec;104:365–73

Thalassemia incidentally found by marked erythrocytosis due to an ochre mutation at codon 35 in a Japanese man. Yasunaga M, et al. **Intern Med** 1995 Dec;34(12):1198–200

Homozygous beta thalassemia presenting as neonatal jaundice. Hazir T, et al. **JPMA J Pak Med Assoc** 1995 Nov;45(11):306–7

Screening for genetic diseases [editorial; comment] [see comments] Motulsky AG. **N Engl J Med** 1997 May 1; 336(18):1314–6. Comment on: N Engl J Med 1997 May 1;336(18):1298–301. Comment in: N Engl J Med 1997 Aug 28;337(9):639–40.

Prenatal diagnosis of beta-thalassaemia mutations using the reverse dot blot technique [published erratum appears in Natl Med J India 1996 May-Jun;9(3):150] Muralitharan S, et al. **Natl Med J India** 1996 Mar–Apr;9(2):70–1

Hepatic iron overload in thalassemic patients: proposal and validation of an MRI method of assessment. Bonetti MG, et al. **Pediatr Radiol** 1996 Sep;26(9):650–6

Rapid mid-trimester prenatal diagnosis of beta-thalassaemia and other haemoglobinopathies using a non-radioactive anion exchange HPLC technique--an Indian experience. Rao VB, et al. **Prenat Diagn** 1997 Aug;17(8):725–31

[Rapid prenatal diagnosis of 60 cases with beta-thalassemia by reverse dot blot analysis] Liao C, et al.
Chung Hua Fu Chan Ko Tsa Chih 1996 Jun;31(6):348–50 (Eng. Abstr.) **(Chi)**

[Spontaneous menarche in beta-thalassemia. Letter] Collell M, et al. **Minerva Pediatr** 1996 Jun;48(6):287–8 **(Ita)**

[Beta-thalassemia and glucose-6-phosphate dehydrogenase deficiency] Troitskaia OV, et al. **Klin Lab Diagn** 1996 Nov-Dec;(6):17–24 (Eng. Abstr.) **(Rus)**

[Diagnosis of genetic mutations using oligonucleotide microchips] Ivanov IB, et al. **Mol Biol (Mosk)** 1997 Jan-Feb;31(1):159–67 **(Rus)**

DIET THERAPY

Nutritional support and growth in thalassaemia major. Fuchs GJ, et al. **Arch Dis Child** 1997 Jun;76(6):509–12

Dietary magnesium supplementation ameliorates anemia in a mouse model of beta-thalassemia. De Franceschi L, et al. **Blood** 1997 Aug 1;90(3):1283–90

DRUG THERAPY

Iron-chelating therapy and the treatment of thalassemia [see comments] [published erratum appears in Blood 1997 Apr 1;89(7):2621] Olivieri NF, et al. **Blood** 1997 Feb 1; 89(3):739–61 (314 ref.). Comment in: Blood 1997 Jul 15;90(2):894.

Agranulocytosis, arthritis and systemic vasculitis in a patient receiving the oral iron chelator L1 (deferiprone). Castriota-Scanderbeg A, et al. **Br J Haematol** 1997 Feb; 96(2):254–5

Administration of high doses of recombinant human erythropoietin to patients with beta-thalassemia intermedia:

a preliminary trial [published erratum appears in Eur J Haematol 1997 Jul;59(1):65] Bourantas K, et al. **Eur J Haematol** 1997 Jan;58(1):22–5

Protection of oxidative hemolysis by demethyldiisoeugenol in normal and beta-thalassemic red blood cells. Ko FN, et al. **Free Radic Biol Med** 1997;22(1–2):215–22

Sensorineural hearing loss in children with thalassemia major in Northern Greece. Kontzoglou G, et al. **Int J Pediatr Otorhinolaryngol** 1996 May;35(3):223–30

Evaluation of a new method of administration of the iron chelating agent deferoxamine. Borgna-Pignatti C, et al. **J Pediatr** 1997 Jan;130(1):86–8

Sensorimotor neurotoxicity associated with high-dose deferoxamine treatment. Levine JE, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):139–41

Recombinant human erythropoietin trial in thalassemia intermedia. Nişli G, et al. **J Trop Pediatr** 1996 Dec; 42(6):330–4

Treatment of thalassaemia major with phenylbutyrate and hydroxyurea [letter] Olivieri NF, et al. **Lancet** 1997 Aug 16;350(9076):491–2

ENZYMOLOGY

Iron overload and urinary lysosomal enzyme levels in beta-thalassaemia major. Michelakakis H, et al. **Eur J Pediatr** 1997 Aug;156(8):602–4

EPIDEMIOLOGY

Frequency of coincident iron deficiency and beta-thalassaemia trait [letter; comment] Madan N, et al. **J Clin Pathol** 1996 Dec;49(12):1021–2. Comment on: J Clin Pathol 1995 Jun;48(6):594–5.

The molecular basis of beta-thalassaemia in Lebanon and its neighbouring countries. Saleh MA, et al. **J Med Liban** 1996;44(2):75–9 (16 ref.)

Prevalence of scoliosis in beta-thalassemia. Korovessis PG, et al. **J Spinal Disord** 1996 Apr;9(2):170–3

Prevalence of beta-thalassaemia trait in 1124 students from Aegean region of Turkey. Aydinok Y, et al. **J Trop Pediatr** 1997 Jun;43(3):184–5

Prevalence and genotypes of alpha- and beta-thalassemia carriers in Hong Kong — implications for population screening [see comments] Lau YL, et al. **N Engl J Med** 1997 May 1;336(18):1298–301. Comment in: N Engl J Med 1997 May 1;336(18):1314–6.

[Mediterranean anemia in 124 Sicilian pregnant women] Pepe F, et al. **Minerva Ginecol** 1997 Jun;49(6):277–81 (Eng. Abstr.) **(Ita)**

ETHNOLOGY

Beta-thalassaemia in the immigrant and non-immigrant German populations. Vetter B, et al. **Br J Haematol** 1997 May;97(2):266–72

GENETICS

A novel (delta beta)(0)-thalassemia due to a approximately 30-kb deletion observed in a Turkish family. Oner R, et al. **Acta Haematol** 1996;96(4):232–6

Globin mRNA in beta-thalassemia heterozygotes with different beta-thalassemia alleles and in heterozygotes for hereditary persistence of fetal hemoglobin. Smetanina NS, et al. **Acta Haematol** 1996;96(3):162–9

Relative levels of alpha-, beta-, and gamma-mRNA from patients with severe and intermediate beta-thalassemia major. Smetanina NS, et al. **Acta Haematol** 1997; 97(4):205–10

Longitudinal monitoring of bone mineral density in thalassemic patients. Genetic structure and osteoporosis. Filosa A, et al. **Acta Paediatr** 1997 Apr;86(4):342–6

Fanconi aplastic anemia associated with beta-thalassemia trait [letter] Altay C, et al. **Am J Hematol** 1996 Jul; 52(3):239–40

Alpha genotyping in a heterogeneous Indian population [letter] Nadkarni AH, et al. **Am J Hematol** 1996 Oct; 53(2):149–50

Molecular characterization of beta-thalassemia genes in an Argentine population. Roldán A, et al. **Am J Hematol** 1997 Mar;54(3):179–82

Molecular characterization of beta-thalassemia mutations in Guadeloupe. Romana M, et al. **Am J Hematol** 1996 Dec; 53(4):228–33

Genetic analysis of beta-thalassemia intermedia in Israel: diversity of mechanisms and unpredictability of phenotype. Rund D, et al. **Am J Hematol** 1997 Jan;54(1):16–22

beta-Thalassemia and hemoglobin types in Argentina: determination of most frequent mutations. Soria NW, et al. **Am J Hematol** 1997 Feb;54(2):160–3

Rare beta-thalassemia mutation IVS-II-848 (C-A) first reported in a Turkish Cypriot family [letter] Tüzmen S, et al. **Am J Hematol** 1997 Apr;54(4):338–9

Frameshift CD 11 (-T) beta-thalassemia mutation [letter; comment] Villegas A, et al. **Am J Hematol** 1997 Mar; 54(3):265–6. Comment on: Am J Hematol 1996 Mar;51(3):240–2.

Twenty-year outcome analysis of genetic screening programs for Tay-Sachs and beta-thalassemia disease carriers in high schools [see comments] Mitchell JJ, et al. **Am J Hum Genet** 1996 Oct;59(4):793–8. Comment in: Am J Hum Genet 1996 Oct;59(4):762–3.

Molecular basis of asymptomatic beta-thalassemia major in an African American individual. Ballas SK, et al. **Am J Med Genet** 1997 Mar 17;69(2):196–9 (25 ref.)

Presence of hemoglobinopathies in Sicily: a historic perspective. Schilirò G, et al. **Am J Med Genet** 1997 Mar 17;69(2):200–6

Early prenatal diagnosis of beta-thalassaemia in Singapore. Ng IS, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):779–82

Fortuitous diagnosis of the association of hemoglobin J-Broussais with beta + thalassemia. Durou MR, et al. **Ann Biol Clin (Paris)** 1996;54(8–9):321–3

beta-Thalassemia mutation at -90C-->T impairs the interaction of the proximal CACCC box with both erythroid and nonerythroid factors [letter] Faustino P, et al. **Blood** 1996 Oct 15;88(8):3248–9

A novel beta+-thalassemia mutation (codon 10 GCC --> GCA) and a rare transcriptional mutation (-28A --> G) in Indians [letter] Pawar AR, et al. **Blood** 1997 May 15; 89(10):3888–9

Molecular genetics of beta-thalassaemia in Pakistan: a basis for prenatal diagnosis [see comments] Ahmed S, et al. **Br J Haematol** 1996 Sep;94(3):476–82. Comment in: Br J Haematol 1997 May;97(2):504.

Beta-thalassaemia heterozygotes with alpha-globin gene triplication [letter; comment] Colah RB, et al. **Br J Haematol** 1997 May;97(2):506–7. Comment on: Br J Haematol 1996 Dec;95(3):467–71.

Molecular analysis of the Turkish form of deletion-inversion (delta beta)(0) thalassaemia. Oner C, et al. **Br J Haematol** 1997 Feb;96(2):229–34

Haplotypic heterogeneity of beta-thalassaemia IVS I-1 (G-->A) mutation in southern Portugal [letter; comment] Pacheco P, et al. **Br J Haematol** 1996 Sep;94(4):767. Comment on: Br J Haematol 1996 Feb;92(2):336–8.

The triplicated alpha-globin gene locus in beta-thalassaemia heterozygotes: clinical, haematological, biosynthetic and molecular studies [see comments] Traeger-Synodinos J, et al. **Br J Haematol** 1996 Dec;95(3):467–71. Comment in: Br J Haematol 1997 May;97(2):506–7.

Beta-thalassaemia due to a seventeen basepair deletion [letter; comment] Waye JS, et al. **Br J Haematol** 1997 May; 97(2):504. Comment on: Br J Haematol 1996 Sep;94(3):476–82.

Control of beta-thalassaemia by carrier screening, genetic counselling and prenatal diagnosis: the Sardinian experience. Cao A, et al. **Ciba Found Symp** 1996; 197:137–51; discussion 151–5 (32 ref.)

Rapid diagnosis of beta thalassemia mutations in Mediterraneans by PCR and restriction analysis of natural or created sites. Le Denmat C, et al. **Clin Biochem** 1997 Jul;30(5):433–7

Temperature-programmed capillary electrophoresis for the analysis of high-melting point mutants in thalassemias. Gelfi C, et al. **Electrophoresis** 1997 May;18(5):724–31

A novel mutation in the beta-globin gene causing beta-thalassaemia in a Swedish family [letter] Landin B, et al. **Eur J Haematol** 1996 Aug;57(2):182–4

A mild form of Hb S-beta-thalassemia syndrome is assured in Sicilian patients by beta+mutant IVS-I nt 6(T-->C) [letter] Mirabile E, et al. **Eur J Haematol** 1997 Jan; 58(1):67–9

Maximal gamma-globin expression in the compound heterozygous state for -175G gamma HPFH and beta degree 39 nonsense thalassaemia: a case study. Pistidda P, et al. **Eur J Haematol** 1997 May;58(5):320–5

Relationship between the severity of beta-thalassaemia syndromes and the number of alleviating mutations. Ratip S, et al. **Eur J Haematol** 1997 Jan;58(1):14–21

Molecular heterogeneity of beta-thalassaemia in a Spanish population from the area centre of Spain [letter] Villegas A, et al. **Eur J Haematol** 1996 Nov;57(5):389–91

Successful twin pregnancy in homozygous beta-thalassemia after ovulation induction with growth hormone and gonadotropins. Surbek D, et al. **Fertil Steril** 1996 Mar; 65(3):670–2

Sequence analysis by hybridization with oligonucleotide microchip: identification of beta-thalassemia mutations. Drobyshev A, et al. **Gene** 1997 Mar 25;188(1):45–52

Serum erythropoietin and circulating transferrin receptor in thalassemia intermedia patients with heterogeneous genotypes. Camaschella C, et al. **Haematologica** 1996 Sep-Oct;81(5):397–403

Historical and anthropological correlates of beta S haplotypes and alpha- and beta-thalassemia alleles in the Arabian Peninsula. Adekile AD. **Hemoglobin** 1997 May; 21(3):281–96 (84 ref.)

Hb J-Baltimore [beta 16(A13)Gly-->Asp] associated with beta(+)-thalassemia in a Spanish family. Arribalzaga K, et al. **Hemoglobin** 1996 Feb;20(1):79–84

A large beta-thalassemia deletion in a family of Indonesian-Malay descent. Dimovski AJ, et al. **Hemoglobin** 1996 Nov;20(4):377–92

Hb Sun Prairie: diagnostic pitfalls in thalassemic hemoglobinopathies. Ho PJ, et al. **Hemoglobin** 1996 May; 20(2):103–12

Hb D-Punjab in the United Arab Emirates. el-Kalla S, et al. **Hemoglobin** 1997 Jul;21(4):369–75

A significant beta-thalassemia heterogeneity in the United Arab Emirates. el-Kalla S, et al. **Hemoglobin** 1997 May; 21(3):237–47

Molecular characterization of beta-thalassemia in Taiwan and the identification of two new mutations. Ko TM, et al. **Hemoglobin** 1997 Mar;21(2):131–42

The levels of abnormal hemoglobin in persons with heterozygosities for an alpha chain variant and for beta-thalassemia. Molchanova TP, et al. **Hemoglobin** 1997 Mar;21(2):173–7

beta-thalassemia mutations in Japanese and Koreans [published erratum appears in Hemoglobin 1997 Jul;21(4):389] Ohba Y, et al. **Hemoglobin** 1997 Mar; 21(2):191–200 (19 ref.)

Identification of Mediterranean beta-thalassemia mutations by reverse dot-blot in Italians and Egyptians. Rady MS, et al. **Hemoglobin** 1997 Jan;21(1):59–69

Genetic heterogeneity of beta-thalassemia in populations of the Iberian Peninsula. Ribeiro ML, et al. **Hemoglobin** 1997 May;21(3):261–9

First case of Hb S and beta zero-thalassemia detected in an Argentinean girl. Soria NW, et al. **Hemoglobin** 1996 May; 20(2):125–9

beta haplotypes of three Mexican Mestizo families with Spanish (delta beta)o-thalassemia. Villalobos-Arámbula AR, et al. **Hemoglobin** 1996 Nov;20(4):439–42

Novel beta 0-thalassemia mutation in a Canadian woman of British descent (codons 72/73, -AGTGA, +T). Waye JS, et al. **Hemoglobin** 1997 Jul;21(4):385–7

Rare beta-thalassemia mutation in a Turkish patient: FSC-36/37 (-T). Tadmouri GO, et al. **Hum Biol** 1997 Apr; 69(2):263–7

Identification of novel Asian Indian and Japanese mutations causing beta-thalassaemia in the Egyptian population. el-Hashemite N, et al. **Hum Genet** 1997 Feb;99(2):271–4

Regional distribution of beta-thalassemia mutations in India. Verma IC, et al. **Hum Genet** 1997 Jul;100(1):109–13

Beta-thalassemia and beta[A] globin gene haplotypes in Mexican mestizos. Villalobos-Arámbula AR, et al. **Hum Genet** 1997 Apr;99(4):498–500

Genotype-phenotype analysis in HbS-beta-thalassemia. Altay C, et al. **Hum Hered** 1997 May-Jun;47(3):161–4

Novel and unusual deletion-insertion thalassemic mutation in exon 1 of the beta-globin gene. Badens C, et al. **Hum Mutat** 1996;8(1):89–92

New frameshift mutation, insertion of A, at codon 95 of the beta-globin gene causes beta-thalassemia in two Vietnamese families. Cai S, et al. **Hum Mutat** 1996; 8(3):293–4

Probable identity by descent and discovery of familial relationships by means of a rare beta-thalassemia haplotype. Martino T, et al. **Hum Mutat** 1997;9(1):86–7

Detection of beta-thalassaemia mutation insertion ATCT at codon 47/48 by ARMS technique for screening & prenatal diagnosis. Saxena R, et al. **Indian J Med Res** 1997 Jun; 105:275–7

Detection of eight beta-thalassemia mutations using a DNA enzyme immunoassay. Colosimo A, et al. **Int J Clin Lab Res** 1996;26(2):136–9

The occurrence of beta-thalassemia mutation and its interaction with hemoglobin E in the eastern India. De M, et al. **Int J Hematol** 1997 Jul;66(1):31–4

Beta-thalassemia (beta 90 GAG-->TAG): genetic diagnosis by allele-specific polymerase chain reaction and estimation of mutant mRNA expression by reverse transcription polymerase chain reaction. Ekawa K, et al. **Intern Med** 1996 Jun;35(6):463–7

Evidence of maternal segregation distortion in the sickle cell and beta thalassaemia traits [letter] Silva ID, et al. **J Med Genet** 1996 Jun;33(6):525

The molecular basis of beta-thalassaemia in Lebanon and its neighbouring countries. Saleh MA, et al. **J Med Liban** 1996;44(2):75–9 (16 ref.)

Molecular diagnosis and carrier screening for beta thalassemia. Cao A, et al. **JAMA** 1997 Oct 15; 278(15):1273–7

Inhibition of hemozoin formation in Plasmodium falciparum trophozoite extracts by heme analogs: possible implication in the resistance to malaria conferred by the beta-thalassemia trait. Martiney JA, et al. **Mol Med** 1996 Mar;2(2):236–46

Prenatal diagnosis of sickle cell anaemia and thalassaemia by analysis of fetal cells in maternal blood [see comments] Cheung MC, et al. **Nat Genet** 1996 Nov;14(3):264–8. Comment in: Nat Genet 1996 Nov;14(3):239–40.

Genotypes and phenotypes of beta-thalassemia in Mediterranean populations [editorial] Kattamis C, et al. **Pediatr Hematol Oncol** 1997 May-Jun;14(3):vii–ix (11 ref.)

Beta-thalassemia alleles in Aegean region of Turkey: effect on clinical severity of disease. Nişli G, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):59–65

The risk of alpha-thalassaemia in offspring of beta-thalassaemia carriers in Hong Kong. Lam YH, et al. **Prenat Diagn** 1997 Aug;17(8):733–6

Repair of thalassemic human beta-globin mRNA in mammalian cells by antisense oligonucleotides. Sierakowska H, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12840–4

Determination of neutral polymorphisms (frameworks) of the human beta globin gene in beta thalassaemias by PCR/DGGE. Moreira HW, et al. **Sangre (Barc)** 1997 Feb; 42(1):21–4

The spectrum of beta-thalassemia mutations in Malays in Singapore and Kelantan. Abdullah WA, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):164–8

Compound heterozygosity for hemoglobin Knossos [alpha

2 beta 2 27 (B9) Ala-Ser] and IVS I-1 mutation. Gürgey A, et al. **Turk J Pediatr** 1997 Apr-Jun;39(2):253-7

[Heterozygote beta-thalassemia: a contraindication for peroperative blood recovery? (letter)] Bretaudeau MM, et al. **Presse Med** 1996 Oct 26;25(32):1563 **(Fre)**

[Beta thalassemia in Germany: molecular genetics and clinical phenotype in immigrant and in the native population] Schwarz C, et al. **Klin Padiatr** 1997 Jul-Aug;209(4):172-7 (Eng. Abstr.) **(Ger)**

[Growth and thalassemia] De Sanctis V, et al. **Minerva Pediatr** 1997 Apr;49(4):121-8 **(Ita)**

[Homozygous beta(+)-thalassemia due to -31 A to G mutation] Komeno T, et al. **Rinsho Ketsueki** 1996 Jun; 37(6):506-10 (Eng. Abstr.) **(Jpn)**

[Retrospective estimation of the frequency of heterozygous beta-thalassemia in the Crimean Tartar population. Formulation of the problem. Estimation of the gametic contribution to a mixed population from frequencies of the ABO blood group genes] Asanov AIu, et al. **Genetika** 1996 Dec;32(12):1683-6 (Eng. Abstr.) **(Rus)**

[Retrospective estimation of the frequency of heterozygous beta-thalassemia in the Crimean Tatar population. Estimation of gene frequency in the ancestral population based on mixed population data with a known admixture rate] Asanov AIu, et al. **Genetika** 1996 Dec;32(12):1687-9 (Eng. Abstr.) **(Rus)**

[Association of alpha and beta thalassemia with alpha gene triplication in one family] Villegas A, et al. **Med Clin (Barc)** 1997 May 24;108(20):781-3 (Eng. Abstr.) **(Spa)**

[Most frequent beta-thalassemia mutations in the Argentinian population] Varela V, et al. **Sangre (Barc)** 1996 Apr; 41(2):137-40 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Effect of alpha-interferon on natural killer cell activity and lymphocyte subsets in thalassemia patients with chronic hepatitis C. Malaponte G, et al. **Acta Haematol** 1997; 98(2):83-8

A distinct pattern of cytokine production from blood mononuclear cells in multitransfused patients with beta-thalassaemia. Salsaa B, et al. **Clin Exp Immunol** 1997 Mar;107(3):589-92

Erythrocyte P antigen in beta thalassemia major patients with human parvovirus-B19 infection [letter; comment] Akar N, et al. **Pediatr Hematol Oncol** 1996 Nov-Dec;13(6):581-2 . Comment on: Pediatr Hematol Oncol 1995 Sep-Oct;12(5):507-9.

Specific antibody response in children with thalassemia major [letter] Kutukculer N, et al. **Pediatr Hematol Oncol** 1997 Mar-Apr;14(2):181-3

Erythroblast- and erythrocyte-bound antibodies in alpha and beta thalassaemia syndromes. Wiener E, et al. **Transfus Med** 1991 Dec;1(4):229-38

[Severe hemolysis related to an association of erythrocyte allo- and autoantibodies in a thalassemia patients] Mizon P, et al. **Transfus Clin Biol** 1996;3(4):257-61 (Eng. Abstr.) **(Fre)**

METABOLISM

Growth hormone therapy transiently increases apolipoprotein(a) in short beta-thalassaemia major children with normal growth hormone reserve. Tam SC, et al. **Atherosclerosis** 1997 Feb 10;128(2):175-82

The correlation of serum ferritin level to Ca-P metabolism and bone density study in thalassemic patients. Chao T, et al. **J Pediatr Endocrinol Metab** 1996 Nov-Dec; 9(6):609-11

PATHOLOGY

Liver injury due to iron overload in thalassemia: histopathologic and ultrastructural studies. Thakerngpol K, et al. **Biometals** 1996 Apr;9(2):177-83

Erythroblastic inclusions in dominantly inherited beta thalassemias. Ho PJ, et al. **Blood** 1997 Jan 1;89(1):322-8

A 3D study of intra and extracellular structures of liver in beta-thalassemia intermedia: an OsO4 maceration analysis. Faa G, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):73-8

Fatal fat embolism syndrome in a child with undiagnosed hemoglobin S/beta+ thalassemia: a complication of acute parvovirus B19 infection. Kolquist KA, et al. **Pediatr Pathol Lab Med** 1996 Jan-Feb;16(1):71-82

PHYSIOPATHOLOGY

Different hematological phenotypes caused by the interaction of triplicated alpha-globin genes and heterozygous beta-thalassemia. Camaschella C, et al. **Am J Hematol** 1997 Jun;55(2):83-8

The effect of iron overload in the hearts of patients with beta-thalassemia. Brili SV, et al. **Clin Cardiol** 1997 Jun; 20(6):541-6

Extramedullary haematopoiesis in thalassaemia: results of radiotherapy: a report of three patients. Pistevou-Gompaki K, et al. **Clin Oncol (R Coll Radiol)** 1996;8(2):120-2

Reproductive health in patients with beta-thalassemia. Tolis GJ, et al. **Curr Opin Pediatr** 1996 Aug;8(4):406-10 (31 ref.)

Incidence of endocrine complications and clinical disease severity related to genotype analysis and iron overload in patients with beta-thalassaemia. Jensen CE, et al. **Eur J Haematol** 1997 Aug;59(2):76-81

Lungs in thalassaemia major patients receiving regular transfusion. Tai DY, et al. **Eur Respir J** 1996 Jul; 9(7):1389-94

Pituitary-testicular axis in men with beta-thalassaemia major. Papadimas J, et al. **Hum Reprod** 1996 Sep;11(9):1900-4

Sperm concentrations and quality in beta-thalassaemia major. Jensen CE, et al. **Int J Androl** 1996 Dec;19(6):362-4

Renal abnormalities in patients with sickle cell-beta thalassemia. Katopodis KP, et al. **J Nephrol** 1997 May-Jun; 10(3):163-7

Spinal cord compression due to extramedullary haematopoiesis in thalassaemia: a case report and review of the literature [letter] Martina IS, et al. **J Neurol** 1996 Apr;243(4):364-6

Physical performance in patients with thalassemia before and after transfusion. Villa MP, et al. **Pediatr Pulmonol** 1996 Jun;21(6):367-72

[Mediterranean anemia and the cardiovascular system] Malavasi A, et al. **Cardiologia** 1997 Mar;42(3):245-55 (119 ref.) **(Ita)**

[Onset of puberty in males with beta-thalassemia] Morabito D, et al. **Minerva Pediatr** 1996 Jul-Aug;48(7-8):345-6 **(Ita)**

PREVENTION & CONTROL

Nestroft screening tool for beta-thalassemia trait [letter] Sharma U, et al. **Indian Pediatr** 1996 Sep;33(9):788-9

Pre-marriage prevention of thalassaemia: report of a 100,000 case experience in Isfahan. Ghanei M, et al. **Public Health** 1997 May;111(3):153-6

PSYCHOLOGY

Psychosocial aspects and psychiatric disorders in children with thalassemia major. Aydin B, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):354-7

Psychosocial problems and adjustment of children with beta-thalassemia and their families. Tsiantis J, et al. **Eur Child Adolesc Psychiatry** 1996 Dec;5(4):193-203

SURGERY

Fatal Campylobacter jejuni infection in a patient splenectomised for thalassaemia. Jackson N, et al. **J Clin Pathol** 1997 May;50(5):436-7

Non-0:1 Vibrio cholerae septicemia in thalassemia patients. Laosombat V, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):411-3

THERAPY

Treatment of human fetuses and induction of immunological tolerance in humans by in utero transplantation of stem cells into fetal recipients. Touraine JL. **Acta Haematol** 1996; 96(3):115-9

Successful pregnancy after bone marrow transplantation for thalassaemia. Borgna-Pignatti C, et al. **Bone Marrow Transplant** 1996 Jul;18(1):235-6

Increased serum levels of circulating intercellular adhesion molecule 1 predict the risk of graft rejection after bone marrow transplantation for thalassemia. Centis F, et al. **Bone Marrow Transplant** 1997 Jul;20(2):125-8

CsA-associated neurotoxicity and ineffective prophylaxis with clonazepam in patients transplanted for thalassemia major: analysis of risk factors. Erer B, et al. **Bone Marrow Transplant** 1996 Jul;18(1):157-62

Evidence of induced non-tolerance in HLA-identical twins with hemoglobinopathy after in utero fetal transplantation. Orlandi F, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):637-9

Malaria infection after allogeneic bone marrow transplantation in a child with thalassemia. Tran VB, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1259-60

Prevalence and clinical significance of hepatitis G virus infection in adult beta-thalassaemia major patients. Sampietro M, et al. **Br J Haematol** 1997 Jun;97(4):904-7

Bone marrow transplantation in thalassemia. Lucarelli G, et al. **Cancer Treat Res** 1997;77:305-15 (27 ref.)

A distinct pattern of cytokine production from blood mononuclear cells in multitransfused patients with beta-thalassaemia. Salsaa B, et al. **Clin Exp Immunol** 1997 Mar;107(3):589-92

Treatment of beta-thalassemia. Giardini C. **Curr Opin Hematol** 1997 Mar;4(2):79-87 (82 ref.)

Epididymal and sex accessory gland secretions in transfusion-dependent beta-thalassemic patients: evidence of an impaired prostatic function. Carpino A, et al. **Exp Clin Endocrinol Diabetes** 1997;105(3):169-74

Hematopoietic stem cell transplantation in nonmalignant diseases. Storb R. **J Rheumatol Suppl** 1997 May;48:30-5 (29 ref.)

Lack of evidence of HIV-2 infection among multitransfused thalassemic children in the city of New Delhi [letter] Chattopadhya D, et al. **J Trop Pediatr** 1996 Apr;42(2):116-7

Insulin and glucagon responses to provocation with glucose and arginine in prepubertal children with thalassemia major before and after long-term blood transfusion. Soliman AT, et al. **J Trop Pediatr** 1996 Oct;42(5):291-6

Successful use of hydroxyurea in beta-thalassemia major [letter] Arruda VR, et al. **N Engl J Med** 1997 Mar 27; 336(13):964

Recombinant human erythropoietin for anaemia in thalassaemia minor patients on dialysis [letter] Kagan A, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2375-6

Termination of transfusion dependence in beta-thalassemia: two-year experience with recombinant human erythropoietin [letter] Nişli G, et al. **Pediatr Hematol Oncol** 1997 May-Jun;14(3):285-7

Engraftment failure following bone marrow transplantation in children with thalassemia major using busulfan and cyclophosphamide conditioning. Solh H, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):73-7

Physical performance in patients with thalassemia before and after transfusion. Villa MP, et al. **Pediatr Pulmonol** 1996 Jun;21(6):367-72

A moderate transfusion regimen may reduce iron loading in beta-thalassemia major without producing excessive expansion of erythropoiesis. Cazzola M, et al. **Transfusion** 1997 Feb;37(2):135-40

Graft-versus-host disease after bone marrow transplantation for thalassemia: an analysis of incidence and risk factors. Gaziev D, et al. **Transplantation** 1997 Mar 27;63(6):854-60

The impact of neocyte transfusion in the management of thalassaemia. Spanos T, et al. **Vox Sang** 1996;70(4):217-23

[Program of hypertransfusion and chelation with desferrioxamine in 10 patients with thalassemia major] Albo C, et al. **Sangre (Barc)** 1995 Dec;40(6):441-5 (Eng. Abstr.) **(Spa)**

VIROLOGY

Hepatitis E virus infection in patients from Saudi Arabia with sickle cell anaemia and beta-thalassemia major: possible transmission by blood transfusion. al-Fawaz I, et al. **J Viral Hepat** 1996 Jul;3(4):203-5

BETA-THIONASE see **CYSTATHIONINE BETA-SYNTHASE**

BETA-THROMBOGLOBULIN

CD62, thromboxane B2, and beta-thromboglobulin: a comparison between different markers of platelet activation after contact with biomaterials. Cenni E, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):289-94

ANALYSIS

Comparison of methods for evaluating exercise-induced changes in thromboxane B2 and beta-thromboglobulin. Todd MK, et al. **Med Sci Sports Exerc** 1997 May; 29(5):700-4

CHEMISTRY

Fibronectin, platelet factor 4 and beta-thromboglobulin in endemic hepatosplenic schistosomiasis: relation to acute hematemesis. el-Bassiouni NE, et al. **Haemostasis** 1997 Jan-Feb;27(1):39-48

METABOLISM

Ex vivo inhibition of PAF-induced beta-thromboglobulin release in man by ABT-299, a potent PAF antagonist. Albert DH, et al. **Adv Exp Med Biol** 1996;416:381-7

Fibrin D-dimer and beta-thromboglobulin as markers of thrombogenesis and platelet activation in atrial fibrillation. Effects of introducing ultra-low-dose warfarin and aspirin [see comments] Lip GY, et al. **Circulation** 1996 Aug 1; 94(3):425-31. Comment in: Circulation 1997 Aug 5;96(3):1053-4; discussion 1055-6. Comment in: Circulation 1997 Aug 5;96(3):1054-6.

Effects of sodium ozagrel on hemostatic markers and cerebral blood flow in lacunar infarction. Oishi M, et al. **Clin Neuropharmacol** 1996 Dec;19(6):526-31

Premature coronary heart disease: the influence of positive family history on platelet activity in vivo in children and adolescents (family study). Akimova EV, et al. **J Cardiovasc Risk** 1997 Feb;4(1):13-8

SECRETION

Comparison of beta-thromboglobulin, flow cytometry, and platelet aggregometry to study platelet activation. Matzdorff AC, et al. **Haemostasis** 1996 Mar-Apr; 26(2):98-106

BETA-TRANSDUCIN see **TRANSDUCIN**

BETA-TYROSINASE see **TYROSINE PHENOL-LYASE**

BETA-VINCULIN see **VINCULIN**

BETACAROTENE see **BETA CAROTENE**

BETADEXAMETHASONE see **BETAMETHASONE**

BETAHERPESVIRINAE

Pathogenesis of ruminant herpesvirus infections. Engels M, et al. **Vet Microbiol** 1996 Nov;53(1-2):3-15 (53 ref.)

ISOLATION & PURIFICATION

Detection of human Betaherpesvirinae in saliva and urine from immunocompromised and immunocompetent subjects. Gautheret-Dejean A, et al. **J Clin Microbiol** 1997 Jun;35(6):1600-3

BETAHISTINE

BETAHISTINE

ADMINISTRATION & DOSAGE

Mechanism for enhancement effect of lipid disperse system on percutaneous absorption [published erratum appears in J Pharm Sci 1996 May;85(5):546] Ogiso T, et al. **J Pharm Sci** 1996 Jan;85(1):57–64

ADVERSE EFFECTS

Nonpigmenting fixed drug eruption: a new case due to betahistine. Dereure O, et al. **Dermatology** 1996; 193(3):248–50

PHARMACOKINETICS

Mechanism for enhancement effect of lipid disperse system on percutaneous absorption [published erratum appears in J Pharm Sci 1996 May;85(5):546] Ogiso T, et al. **J Pharm Sci** 1996 Jan;85(1):57–64

PHARMACOLOGY

Non-specific effect of beettahistine on cochlear electrophysiology in guinea pig. Laurikainen E, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:77–9

Physiopathology of H3-receptors and pharmacology of betahistine. Van Cauwenberge PB, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;526:43–6 (23 ref.)

THERAPEUTIC USE

Vestibular training for acute unilateral vestibular disturbances: its efficacy in comparison with antivertigo drug. Fujino A, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 524:21–6

Comparison of effectiveness of maneuvers and medication in the treatment of benign paroxysmal positional vertigo. Itaya T, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 May–Jun;59(3):155–8

BETAINE

Improved preservation of ultrastructural morphology in human spermatozoa using betaine in the primary fixative. Swan MA. **Int J Androl** 1997 Feb;20(1):45–54

Optimizing multiplex and LA-PCR with betaine. Hengen PN. **Trends Biochem Sci** 1997 Jun;22(6):225–6

ANALOGS & DERIVATIVES

The effect of two toothpaste detergents on the frequency of recurrent aphthous ulcers. Herlofson BB, et al. **Acta Odontol Scand** 1996 Jun;54(3):150–3

The microbicidal agent C31G inhibits Chlamydia trachomatis infectivity in vitro. Wyrick PB, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1335–44

Substrate inhibition by betaine aldehyde of betaine aldehyde dehydrogenase from leaves of Amaranthus hypochondriacus L. Vojtechová M, et al. **Biochim Biophys Acta** 1997 Aug 15;1341(1):49–57

Pure cocamidopropylbetaine is not the allergen in patients with positive reactions to commercial cocamidopropylbetaine. Angelini G, et al. **Contact Dermatitis** 1996 Oct;35(4):252–3

Assessment of the anti-microbial agent C31G as a spermicide: comparison with nonoxynol-9. Thompson KA, et al. **Contraception** 1996 May;53(5):313–8

Non-detergent sulphobetaines: a new class of molecules that facilitate in vitro protein renaturation. Goldberg ME, et al. **Fold Des** 1996;1(1):21–7

Effects of refeeding diets on emeriamine-induced fatty liver in fasting rats. Maeda H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):469–78

Expression of a betaine aldehyde dehydrogenase gene in rice, a glycinebetaine nonaccumulator, and possible localization of its protein in peroxisomes. Nakamura T, et al. **Plant J** 1997 May;11(5):1115–20

[Examination of the properties of amphotensides with potential use as pharmaceuticals] Bialik W. **Acta Pol Pharm** 1992;49(1-2):97–101 (Eng. Abstr.) **(Pol)**

[Comparative study of the antioxidant activity of gamma-butyrobetaine and its natural and synthetic derivatives in vitro] Shutenko ZhI, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):54–7 (Eng. Abstr.) **(Rus)**

[The reversible inhibition of cholinesterases from different biological sources by phosphonium betaines] Zhuzhovskiĭ IuG, et al. **Zh Evol Biokhim Fiziol** 1996 Mar–Apr; 32(2):212–6 (Eng. Abstr.) **(Rus)**

METABOLISM

Betaine, ethanol, and the liver: a review. Barak AJ, et al. **Alcohol** 1996 Jul–Aug;13(4):395–8 (27 ref.)

Distribution of de novo synthesized betaine in rat kidney: role of renal synthesis on medullary betaine accumulation. Moeckel GW, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):F94–9

The methanogenic archaeon Methanosarcina thermophila TM-1 possesses a high-affinity glycine betaine transporter involved in osmotic adaptation. Proctor LM, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2252–7

Accumulation of natural and synthetic betaines by a mammalian renal cell line. Randall K, et al. **Biochem Cell Biol** 1996;74(2):283–7

Activators of protein kinase A and of protein kinase C inhibit MDCK cell myo-inositol and betaine uptake. Preston AS, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1559–64

Synthesis of the osmoprotectant glycine betaine in Bacillus subtilis: characterization of the gbsAB genes. Boch J, et al. **J Bacteriol** 1996 Sep;178(17):5121–9

Osmoprotectants in Halomonas elongata: high-affinity betaine transport system and choline-betaine pathway. Cánovas D, et al. **J Bacteriol** 1996 Dec;178(24):7221–6

The action in vivo of glycine betaine in enhancement of tolerance of Synechococcus sp. strain PCC 7942 to low temperature. Deshnium P, et al. **J Bacteriol** 1997 Jan; 179(2):339–44

Sodium-driven, osmotically activated glycine betaine transport in Listeria monocytogenes membrane vesicles. Gerhardt PN, et al. **J Bacteriol** 1996 Nov;178(21):6105–9

Three transport systems for the osmoprotectant glycine betaine operate in Bacillus subtilis: characterization of OpuD. Kappes RM, et al. **J Bacteriol** 1996 Sep; 178(17):5071–9

Utilization of phosphocholine from extracellular complex polysaccharide as a source of cytoplasmic choline derivatives in Penicillium fellutanum. Park YI, et al. **J Bacteriol** 1997 Feb;179(4):1186–92

Isolation, characterization, and expression of the Corynebacterium glutamicum betP gene, encoding the transport system for the compatible solute glycine betaine. Peter H, et al. **J Bacteriol** 1996 Sep;178(17):5229–34

Is the ability of urinary tract pathogens to accumulate glycine betaine a factor in the virulence of pathogenic strains? Peddie BA, et al. **J Lab Clin Med** 1996 Oct;128(4):417–22

Betaine generation in cardiac myocytes after adrenergic activation of phosphatidylcholine hydrolysis. Meister A, et al. **J Mol Cell Cardiol** 1996 May;28(5):1109–18

Regulation of the myo-inositol and betaine cotransporters by tonicity. Handler JS, et al. **Kidney Int** 1996 Jun; 49(6):1682–3 (21 ref.)

Molecular characterization of the bet genes encoding glycine betaine synthesis in Sinorhizobium meliloti 102F34. Pocard JA, et al. **Microbiology** 1997 Apr;143 (Pt 4):1369–79

Transformation of Arabidopsis thaliana with the codA gene for choline oxidase; accumulation of glycinebetaine and enhanced tolerance to salt and cold stress. Hayashi H, et al. **Plant J** 1997 Jul;12(1):133–42

Choline monooxygenase, an unusual iron-sulfur enzyme catalyzing the first step of glycine betaine synthesis in plants: prosthetic group characterization and cDNA cloning. Rathinasabapathi B, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3454–8

Betaine ether-linked glycerolipids: chemistry and biology. Dembitsky VM. **Prog Lipid Res** 1996 Mar;35(1):1–51 (202 ref.)

PHARMACOKINETICS

Intrarenal distribution of organic osmolytes in human kidney. Schmolke M, et al. **Eur J Clin Chem Clin Biochem** 1996 Jun;34(6):499–501

PHARMACOLOGY

Betaine effects on hepatic methionine metabolism elicited by short-term ethanol feeding. Barak AJ, et al. **Alcohol** 1996 Sep–Oct;13(5):483–6

Betaine and inositol reduce MDCK cell glycerophosphocholine by stimulating its degradation. Kwon ED, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C200–7

Natural and synthetic betaines counter the effects of high NaCl and urea concentrations. Randall K, et al. **Biochim Biophys Acta** 1996 Dec 6;1291(3):189–94

Strychnine-dependent allodynia in the urethane-anesthetized rat is segmentally distributed and prevented by intrathecal glycine and betaine. Sherman SE, et al. **Can J Physiol Pharmacol** 1995 Dec;73(12):1698–705

DNA helix destabilization by proline and betaine: possible role in the salinity tolerance process. Rajendrakumar CS, et al. **FEBS Lett** 1997 Jun 30;410(2–3):201–5

Osmoprotectant-dependent expression of plcH, encoding the hemolytic phospholipase C, is subject to novel catabolite repression control in Pseudomonas aeruginosa PAO1. Sage AE, et al. **J Bacteriol** 1997 Aug;179(15):4874–81

Glycerophosphocholine and betaine counteract the effect of urea on pyruvate kinase. Burg MB, et al. **Kidney Int Suppl** 1996 Dec;57:S100–4

Stabilization by glycinebetaine of photosynthetic oxygen evolution by thylakoid membranes from Synechococcus PCC7002. Lee CB, et al. **Mol Cells** 1997 Apr 30;7(2):296–9

Molecular characterization of mutants affected in the osmoprotectant-dependent induction of phospholipase C in Pseudomonas aeruginosa PAO1. Sage AE, et al. **Mol Microbiol** 1997 Jan;23(1):43–56

Betaines and urinary tract infections [editorial] Chambers ST, et al. **Nephron** 1996;74(1):1–10

Effect of betaine on the growth performance of chicks inoculated with mixed cultures of avian Eimeria species and on invasion and development of Eimeria tenella and Eimeria acervulina in vitro and in vivo. Augustine PC, et al. **Poult Sci** 1997 Jun;76(6):802–9

Replacement value of betaine for DL-methionine in male broiler chicks. Schutte JB, et al. **Poult Sci** 1997 Feb; 76(2):321–5

[Inhibition of cholinesterases of varying origin by ordinary and betaine vinylphosphates] Zhukovskiĭ IuG, et al. **Ukr Biokhim Zh** 1996 Sep–Oct;68(5):15–20 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Betaine for homocystinuria. **Med Lett Drugs Ther** 1997 Jan 31;39(993):12

Interactive effects of betaine and monensin in uninfected and Eimeria acervulina-infected chicks. Matthews JO, et al. **Poult Sci** 1997 Jul;76(7):1014–9

BETAMETHASONE

ADMINISTRATION & DOSAGE

Minimum interval from fetal betamethasone treatment to postnatal lung responses in preterm lambs. Ikegami M, et al. **Am J Obstet Gynecol** 1996 May;174(5):1408–13

Amnioinfusion for prevention of pulmonary hypoplasia in second-trimester rupture of membranes. Vergani P, et al. **Am J Perinatol** 1997 Jul;14(6):325–9

Single dose of betamethasone in combined medical treatment of secretory otitis media. Hemlin C, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):359–63

The use of epidural steroid injection and manipulation on patients with chronic low back pain. Nelson L, et al. **J Manipulative Physiol Ther** 1997 May;20(4):263–6

A comparative study of cardiovascular, endocrine and behavioural effects of betamethasone and dexamethasone administration to fetal sheep. Derks JB, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):217–26

Shoulder injections for subacromial bursitis [letter] Bert J. **Minn Med** 1996 Sep;79(9):6

Single dose fetal betamethasone administration stabilizes postnatal glomerular filtration rate and alters endocrine function in premature lambs. Ervin MG, et al. **Pediatr Res** 1996 Nov;40(5):645–51

Glucocorticoids stimulate the maturation of H,K-ATPase in the infant rat stomach. Wang ZM, et al. **Pediatr Res** 1996 Nov;40(5):658–63

Absence of significant hemodynamic changes in the fetus following maternal betamethasone administration. Cohlen BJ, et al. **Ultrasound Obstet Gynecol** 1996 Oct;8(4):252–5

[The initial experience of using Celeston in anesthesia and resuscitation practice] Malyshev VD, et al. **Anesteziol Reanimatol** 1996 May–Jun;(3):46–8 **(Rus)**

[The intra-articular therapy with triamcinolone acetonide and betamethasone of rheumatoid arthritis patients: a double-blind study] Murav'ev IuV, et al. **Ter Arkh** 1997; 69(5):32–3 **(Rus)**

ADVERSE EFFECTS

Degenerative tear of the tibialis anterior tendon after corticosteroid injection--augmentation with the extensor hallucis longus tendon, case report. Velan GJ, et al. **Acta Orthop Scand** 1997 Jun;68(3):308–9

Repeated courses of steroids in preterm membrane rupture do not increase the risk of histologic chorioamnionitis. Ghidini A, et al. **Am J Perinatol** 1997 Jul;14(6):309–13

Glucocorticoid-induced ketoacidosis in gestational diabetes: sequela of the acute treatment of preterm labor. A case report. Bedalov A, et al. **Diabetes Care** 1997 Jun; 20(6):922–4

[Glucocorticoid-induced hypertrophic cardiomyopathy in premature infants: apropos of 4 cases] Boeuf B, et al. **Arch Pediatr** 1997 Feb;4(2):152–7 (18 ref.) (Eng. Abstr.) **(Fre)**

ANALOGS & DERIVATIVES

Comparison of the influence of cyclosporine and topical betamethasone-17,21-dipropionate treatment on quality of life in chronic hand eczema. Granlund H, et al. **Acta Derm Venereol** 1997 Jan;77(1):54–8

Comparison of cyclosporine and topical betamethasone-17,21-dipropionate in the treatment of severe chronic hand eczema. Granlund H, et al. **Acta Derm Venereol** 1996 Sep;76(5):371–6

Augmented betamethasone: efficacy in psoriasis with different dosing frequencies [letter] Singh S. **Arch Dermatol** 1996 Dec;132(12):1525–6

The effect of topically applied corticosteroid on irritant and allergic patch test reactions. Green C. **Contact Dermatitis** 1996 Dec;35(6):331–3

The effects of betamethasone derivatives on endotoxin-induced uveitis in rats. Tsuji F, et al. **Exp Eye Res** 1997 Jan;64(1):31–6

Effect of corticosteroids on healing of the corneal endothelium in cats. Solomon A, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 May;235(5):325–9

Treatment of childhood vulvar lichen sclerosus with potent topical corticosteroid. Fischer G, et al. **Pediatr Dermatol** 1997 May–Jun;14(3):235–8

[A case for diagnosis: erosive pustular dermatosis of the scalp] Loche F, et al. **Ann Dermatol Venereol** 1995; 122(11-12):799–800 **(Fre)**

IMMUNOLOGY

Changes in leukocyte, granulocyte and lymphocyte counts following antenatal betamethasone administration to pregnant women. Kadanali S, et al.

Int J Gynaecol Obstet 1997 Sep;58(3):269–74

PHARMACOLOGY

Effects of corticosteroid therapy in non–allergic rhinosinusitis. Mygind N. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):164–6 (25 ref.)

Preterm lung function after retreatment with antenatal betamethasone in preterm lambs. Polk DH, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):308–15

A placebo–controlled comparison between betamethasone and dexamethasone for fetal maturation: differences in neurobehavioral development of mice offspring. Rayburn WF, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):842–50; discussion 850–1

Preterm newborn lamb renal and cardiovascular responses after fetal or maternal antenatal betamethasone. Berry LM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1972–9

Antenatal betamethasone therapy potentiates nitric oxide–mediated relaxation of preterm ovine coronary arteries. Gao Y, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H538–44

Higher lung antioxidant enzyme activity persists after single dose of corticosteroids in preterm lambs. Walther FJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L187–91

Repetitive prenatal glucocorticoids improve lung function and decrease growth in preterm lambs. Ikegami M, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):178–84

Prenatal glucocorticoid and T4 effects on lung morphology in preterm lambs. Pinkerton KE, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):624–30

Inhibition of fetal adrenal adrenocorticotropin receptor messenger ribonucleic acid expression by betamethasone administration to the baboon fetus in late gestation. Leavitt MG, et al. **Endocrinology** 1997 Jul;138(7):2705–12

Effects of prenatal treatment with betamethasone, L–carnitine, or betamethasone–L–carnitine combinations on the phosphatidylcholine content and composition of the foetal and maternal rat lung. Lohninger A, et al. **Eur J Clin Chem Clin Biochem** 1996 May;34(5):387–91

Uterine activity after betamethasone administration for the enhancement of fetal lung maturation. Yeshaya A, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug;67(2):139–41

Invited editorial on "Antenatal betamethasone therapy augments nitric oxide–mediated relaxation of preterm ovine pulmonary veins". Fineman JR, et al. **J Appl Physiol** 1996 Feb;80(2):388–9

Antenatal betamethasone therapy augments nitric oxide–mediated relaxation of preterm ovine pulmonary veins. Zhou H, et al. **J Appl Physiol** 1996 Feb;80(2):390–6

Prenatal effects of betamethasone–L–carnitine combinations on fetal rat lung. Lohninger A, et al. **J Perinat Med** 1996; 24(6):591–9

Effect of topical tranilast and corticosteroids on subepithelial haze after photorefractive keratectomy in rabbits. Furukawa H, et al. **J Refract Surg** 1997 Aug;13(5 Suppl):S457–8

Differential effects of betamethasone and dexamethasone fetal administration of parturition in sheep. Derks JB, et al. **J Soc Gynecol Investig** 1996 Nov–Dec;3(6):336–41

The pathologic effects of intrathecal betamethasone. Latham JM, et al. **Spine** 1997 Jul 15;22(14):1558–62

STANDARDS

[Betamethasone Reference Standard (Control 951) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):116–8 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Effects of corticosteroid therapy in non–allergic rhinosinusitis. Mygind N. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):164–6 (25 ref.)

Antenatal steroids and intraventricular hemorrhage after premature rupture of membranes at 24–28 weeks' gestation. Chen B, et al. **Am J Perinatol** 1997 Mar;14(3):171–6

A retrospective analysis of the effect of antenatal steroid administration on the incidence of respiratory distress syndrome in preterm twin pregnancies. Turrentine MA, et al. **Am J Perinatol** 1996 Aug;13(6):351–4

Single dose of betamethasone in combined medical treatment of secretory otitis media. Hemlin C, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):359–63

Glucocorticoid treatment for nasal polyps. The use of topical budesonide powder, intramuscular betamethasone, and surgical treatment. Lildholdt T, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):595–600

The effects of antenatal steroid use in premature rupture of membranes. Tucker L, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):390–2

Comparison of the efficacy of diclofenac and betamethasone following strabismus surgery. Wright M, et al. **Br J Ophthalmol** 1997 Apr;81(4):299–301

The conservative treatment of phimosis in boys. Golubovic Z, et al. **Br J Urol** 1996 Nov;78(5):786–8

Antenatal steroid administration is associated with an improved chance of intact survival in preterm infants. Rennie JM, et al. **Eur J Pediatr** 1996 Jul;155(7):576–9

Airway epithelial damage induced by sulfur mustard in guinea pigs, effects of glucocorticoids. Calvet JH, et al. **Hum Exp Toxicol** 1996 Dec;15(12):964–71

Calcipotriol in psoriasis vulgaris: a controlled trial comparing betamethasone dipropionate + salicylic acid. Crosti C, et al. **Int J Dermatol** 1997 Jul;36(7):537–9

Topical steroid therapy in oral lichen planus: review of a novel delivery method in 24 patients. Aleinikov A, et al. **J Can Dent Assoc** 1996 Apr;62(4):324–7

Injection versus surgery in the treatment of trigger finger. Benson LS, et al. **J Hand Surg [Am]** 1997 Jan;22(1):138–44

Percutaneous release of trigger digit with and without cortisone injection. Patel MR, et al. **J Hand Surg [Am]** 1997 Jan;22(1):150–5

Increased fetal colonic muscle contractility following glucocorticoid and thyroxine therapy: implications for meconium passage. Ross B, et al. **J Matern Fetal Med** 1997 May–Jun;6(3):129–33

Combined effects of antenatal corticosteroids and surfactant supplementation on the outcome of very low birth weight infants. Modanlou HD, et al. **J Perinatol** 1996 Nov–Dec; 16(6):422–8; quiz 429–30

Bilateral angle closure glaucoma in HIV infection. Zambarakji HJ, et al. **J R Soc Med** 1996 Oct;89(10):581–2

Evaluation of glucocorticosteroid injection for the treatment of trochanteric bursitis. Shbeeb MI, et al. **J Rheumatol** 1996 Dec;23(12):2104–6

A placebo–controlled, blinded comparison between betamethasone and dexamethasone to enhance lung maturation in the fetal mouse. Christensen HD, et al. **J Soc Gynecol Investig** 1997 May–Jun;4(3):130–4

Effects of a combined use of steroidal and nonsteroidal anti–inflammatory drugs on E. coli endotoxin–induced uveitis in pigmented rabbits. Ogawa T, et al. **Jpn J Ophthalmol** 1995;39(4):353–9

How high is high in steroid treatment of Vogt–Koyanagi–Harada syndrome? Ikeda K, et al. **Neurology** 1997 Feb;48(2):537

Preterm premature ruptured membranes: a randomized trial of steroids after treatment with antibiotics. Lewis DF, et al. **Obstet Gynecol** 1996 Nov;88(5):801–5

Resolution of hydrops in twin–twin transfusion syndrome: could steroids have a role? Scott F, et al. **Prenat Diagn** 1997 May;17(5):467–70

[Corticosteroid therapy in the prevention of recurrent post–surgical nasal polyposis] Cassano P, et al. **Acta Otorhinolaryngol Ital** 1996 Aug;16(4):334–8 (Eng. Abstr.) **(Ita)**

[Experience in using Celeston (betamethasone) in emergency states in allergology] Latysheva TV, et al. **Anesteziol Reanimatol** 1996 May–Jun;(3):48–50 **(Rus)**

URINE

Analysis of dexamethasone and betamethasone in bovine urine by purification with an "on–line" immunoaffinity chromatography–high–performance liquid chromatography system and determination by gas chromatography–mass spectrometry. Bagnati R, et al. **Anal Biochem** 1996 Mar 15;235(2):119–26

BETAMETHASONE 17–VALERATE

ADMINISTRATION & DOSAGE

Evaluation of topical antipsoriatic treatment by chromametry, visiometry and 20–MHz ultrasound in the psoriasis plaque test. Bangha E, et al. **Skin Pharmacol** 1996; 9(5):298–306

THERAPEUTIC USE

Comparative efficacy of calcipotriol (MC903) cream and betamethasone 17–valerate cream in the treatment of chronic plaque psoriasis. A randomized, double–blind, parallel group multicentre study. Calcipotriol Study Group. Molin L, et al. **Br J Dermatol** 1997 Jan;136(1):89–93

BETATRONS see **PARTICLE ACCELERATORS**

BETAXOLOL

ADMINISTRATION & DOSAGE

Topical beta–blockade with intrinsic sympathomimetic activity offers no advantage for the respiratory and cardiovascular function of elderly people. Diggory P, et al. **Age Ageing** 1996 Nov;25(6):424–8

A comparison of the safety and efficacy of twice daily brimonidine 0.2% versus betaxolol 0.25% in subjects with elevated intraocular pressure. The Brimonidine Study Group III. Serle JB. **Surv Ophthalmol** 1996 Nov;41 Suppl 1:S39–47

PHARMACOLOGY

In vivo and in vitro experiments show that betaxolol is a retinal neuroprotective agent. Osborne NN, et al. **Brain Res** 1997 Mar 14;751(1):113–23

Contrasting effects of betaxolol and propranolol on Ca(2+)–activated contractions in skinned fibers from canine coronary arteries and ventricular muscles. Kitada Y. **Cardiovasc Drugs Ther** 1996 Nov;10(5):581–6

Effect of long–term topical betaxolol on tissue circulation in the iris and optic nerve head. Araie M, et al. **Exp Eye Res** 1997 Feb;64(2):167–72

Betaxolol, a beta 1–adrenoceptor antagonist, inhibits Ca(2+)–induced contraction in skinned renal artery of the dog. Kitada Y. **Jpn J Pharmacol** 1996 Feb;70(2):191–4

Blockade of effect of stress on risk assessment behavior in mice by a beta–1 adrenoceptor antagonist. Stone EA, et al. **Pharmacol Biochem Behav** 1996 Oct;55(2):215–7

[Effects of beta–adrenergic blockers on retinal circulation] Ishikawa Y, et al. **Nippon Ganka Gakkai Zasshi** 1996 Oct; 100(10):798–802 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Spontaneous changes of heart rate, blood pressure, and ischemia–type ST–segment depressions in patients with hypertension without significant coronary artery disease: beneficial effects of beta–blockade [published erratum appears in J Cardiovasc Pharmacol 1997 Mar;29(3):427] Christ M, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):755–63

Unmasking and exacerbation of myasthenia gravis by ophthalmic solutions: betoxolol, tobramycin, and dexamethasone. A case report [letter] Khella SL, et al. **Muscle Nerve** 1997 May;20(5):631

Ocular hypotensive efficacy and safety of a combined formulation of betaxolol and pilocarpine. Robin AL. **Trans Am Ophthalmol Soc** 1996;94:89–101; discussion 101–3

BETAZOLE

DIAGNOSTIC USE

[Investigation of gastric juice (gastrin stimulating test, Histalog stimulating test)] Watanabe H, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:92–4 (5 ref.) **(Jpn)**

BETEL see **ARECA**

BETHANECHOL

ANALOGS & DERIVATIVES see **BETHANECHOL COMPOUNDS**

CHEMISTRY

Bethanechol chloride oral solutions: stability and use in infants. Schlatter JL, et al. **Ann Pharmacother** 1997 Mar; 31(3):294–6

PHARMACOLOGY

Effect of bethanechol or erythromycin on gastric emptying in horses. Ringger NC, et al. **Am J Vet Res** 1996 Dec; 57(12):1771–5

Vascular responses to norepinephrine and bethanechol in isolated aortae from 2–month diabetic rabbits induced by alloxan. Wong KK. **Artery** 1996;22(1):49–54

Contractile responses and calcium mobilization induced by muscarinic agonists in the rat urinary bladder: effects of age. Yu HI, et al. **Gen Pharmacol** 1997 Apr;28(4):623–8

BEVERAGES

Herbal teas and populace health care in tropical China. Hu SY. **Am J Chin Med** 1997;25(1):103–34

Taste responses to naringin, a flavonoid, and the acceptance of grapefruit juice are related to genetic sensitivity to 6–n–propylthiouracil. Drewnowski A, et al. **Am J Clin Nutr** 1997 Aug;66(2):391–7

Grapefruit juice for the pruritus of cholestatic liver disease [letter; comment] Cadranel JF, et al. **Ann Intern Med** 1997 Jun 1;126(11):920–1. Comment on: Ann Intern Med 1996 Oct 15;125(8):701.

Drinking habit as a base for blood pressure elevation—difference in epidemiological significance by beverage type. Takashima Y, et al. **Appl Human Sci** 1997 Mar;16(2):47–53

Treatment of psoriasis by cyclosporine and grapefruit juice [letter] Taniguchi S, et al. **Arch Dermatol** 1996 Oct; 132(10):1249

Soft drink logos on baby bottles: do they influence what is fed to children? Siener K, et al. **ASDC J Dent Child** 1997 Jan–Feb;64(1):55–60

Carbohydrate–electrolyte solution effects on physical performance of military tasks. Montain SJ, et al. **Aviat Space Environ Med** 1997 May;68(5):384–91

Effect of bitter melon (Momordica charantia) fruit juice on the hepatic cytochrome P450–dependent monooxygenases and glutathione S–transferases in streptozotocin–induced diabetic rats. Raza H, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1639–42

Grapefruit component interacting with rat and human P450 CYP3A: possible involvement of non–flavonoid components in drug interaction. Fukuda K, et al. **Biol Pharm Bull** 1997 May;20(5):560–4

Calcium supplementation for the nation [letter; comment] Bobechko WP. **Can Med Assoc J** 1997 May 1;156(9):1269 . Comment on: Can Med Assoc J 1996 Oct 1;155(7):935–9.

Determination of plant polyphenols in Danish foodstuffs by HPLC–UV and LC–MS detection. Justesen U, et al. **Cancer Lett** 1997 Mar 19;114(1–2):165–7

Drug interactions with grapefruit juice. Ameer B, et al. **Clin Pharmacokinet** 1997 Aug;33(2):103–21 (101 ref.)

Analysis of adolescents' beliefs about the outcome of using dental floss and drinking non–sugared mineral water. Astrøm AN, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):211–6

Ultrasonic characterization of foods and drinks: principles, methods, and applications. McClements DJ. **Crit Rev Food Sci Nutr** 1997 Feb;37(1):1–46 (180 ref.)
Public health and nonpasteurized fruit juices. Parish ME. **Crit Rev Microbiol** 1997;23(2):109–19 (61 ref.)
Effects of different carbohydrate–electrolyte beverages on the appearance of ingested deuterium in body fluids during moderate exercise by humans in the heat. Koulmann N, et al. **Eur J Appl Physiol** 1997;75(6):525–31
The cardiac effects of terfenadine after inhibition of its metabolism by grapefruit juice. Clifford CP, et al. **Eur J Clin Pharmacol** 1997;52(4):311–5
Influence of an acidic beverage (Coca–Cola) on the absorption of itraconazole. Jaruratanasirikul S, et al. **Eur J Clin Pharmacol** 1997;52(3):235–7
Effect of grapefruit juice on the pharmacokinetics of amlodipine in healthy volunteers. Josefsson M, et al. **Eur J Clin Pharmacol** 1996;51(2):189–93
Effects of grapefruit juice ingestion--pharmacokinetics and haemodynamics of intravenously and orally administered felodipine in healthy men. Lundahl J, et al. **Eur J Clin Pharmacol** 1997;52(2):139–45
Metabolic and analytical interactions of grapefruit juice and 1,2–benzopyrone (coumarin) in man. Runkel M, et al. **Eur J Clin Pharmacol** 1996;50(3):225–30
Grapefruit juice does not enhance the effects of midazolam and triazolam in man. Vanakoski J, et al. **Eur J Clin Pharmacol** 1996;50(6):501–8
Caffeine self–administration in humans: 1. Efficacy of cola vehicle. Liguori A, et al. **Exp Clin Psychopharmacol** 1997 Aug;5(3):286–94
Caffeine self–administration in humans: 2. A within–subjects comparison of coffee and cola vehicles. Liguori A, et al. **Exp Clin Psychopharmacol** 1997 Aug;5(3):295–303
Potential nitrosamine formation and its prevention during biological denitrification of red beet juice. Kolb E, et al. **Food Chem Toxicol** 1997 Feb;35(2):219–24
Contribution of phenols, quinones and reactive oxygen species to the mutagenicity of white grape juice in the Ames test. Patrineli A, et al. **Food Chem Toxicol** 1996 Sep; 34(9):869–72
Oesophageal cancer in France: potential importance of hot alcoholic drinks. Launoy G, et al. **Int J Cancer** 1997 Jun 11;71(6):917–23
The effect of sucrose– and aspartame–sweetened drinks on energy intake, hunger and food choice of female, moderately restrained eaters. Lavin JH, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):37–42
Water and electrolyte replenishment in the exercising child. Bar–Or O, et al. **Int J Sport Nutr** 1996 Jun;6(2):93–9 (26 ref.)
Is potassium needed in sports drinks for fluid replacement during exercise? Cunningham JJ. **Int J Sport Nutr** 1997 Jun;7(2):154–9 (17 ref.)
Water versus carbohydrate–electrolyte ingestion before and during a 15–km run in the heat. Millard–Stafford M, et al. **Int J Sport Nutr** 1997 Mar;7(1):26–38
Gastric emptying and plasma deuterium accumulation following ingestion of water and two carbohydrate–electrolyte beverages. Murray R, et al. **Int J Sport Nutr** 1997 Jun;7(2):144–53
Influence of sodium replacement on fluid ingestion following exercise–induced dehydration. Wemple RD, et al. **Int J Sport Nutr** 1997 Jun;7(2):104–16
Carbohydrate–electrolyte feedings improve 1 h time trial cycling performance. Jeukendrup A, et al. **Int J Sports Med** 1997 Feb;18(2):125–9
Caffeine vs caffeine–free sports drinks: effects on urine production at rest and during prolonged exercise. Wemple RD, et al. **Int J Sports Med** 1997 Jan;18(1):40–6
Malabsorption of apple juice and pear nectar in infants and children: clinical implications. Ament ME. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):26S–29S
Calcium absorption from apple and orange juice fortified with calcium citrate malate (CCM). Andon MB, et al. **J Am Coll Nutr** 1996 Jun;15(3):313–6
Fruit juice consumption by infants and children: a review. Dennison BA. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):4S–11S (36 ref.)
Weaning foods ... the role of fruit juice in the diets of infants and children. Lifshitz F. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):1S–3S
Gastric physiology and function: effects of fruit juices. Moukarzel AA, et al. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):18S–25S (41 ref.)
Carbohydrate absorption from one serving of fruit juice in young children: age and carbohydrate composition effects. Nobigrot T, et al. **J Am Coll Nutr** 1997 Apr;16(2):152–8
Digestion and absorption of fruit juice carbohydrates. Perman JA. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):12S–17S (32 ref.)
Quantitation of N,N–dimethyltryptamine and harmala alkaloids in human plasma after oral dosing with ayahuasca. Callaway JC, et al. **J Anal Toxicol** 1996 Oct;20(6):492–7
Effect of alcoholic drinks on surface quality and mechanical strength of denture base materials. Vlissidis D, et al. **J Biomed Mater Res** 1997 Fall;38(3):257–61
Grapefruits and drugs: when is statistically significant clinically significant? [editorial; comment] Abernethy DR. **J Clin Invest** 1997 May 15;99(10):2297–8 (14 ref.). Comment on: J Clin Invest 1997 May 15;99(10):2545–53.
Grapefruit juice increases felodipine oral availability in humans by decreasing intestinal CYP3A protein expression [see comments] Lown KS, et al. **J Clin Invest** 1997 May 15;99(10):2545–53. Comment in: J Clin Invest 1997 May 15;99(10):2297–8.
Grapefruit juice and clomipramine: shifting metabolitic ratios [letter] Oesterheld J, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):62–3
Fruit juices and pharmacology [editorial] Shader RI, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):245–6
Breath hydrogen and methane excretion produced by commercial beverages containing dietary fiber. Kondo T, et al. **J Gastroenterol** 1996 Oct;31(5):654–8
Dosing implications of a clinical interaction between grapefruit juice and cyclosporine and metabolite concentrations in patients with autoimmune diseases. Ioannides–Demos LL, et al. **J Rheumatol** 1997 Jan; 24(1):49–54
From the Centers for Disease Control and Prevention. Outbreaks of Escherichia coli O157:H7 infection and cryptosporidiosis associated with drinking unpasteurized apple cider--Connecticut and New York, October 1996. **JAMA** 1997 Mar 12;277(10):781–2
Ethnobotany in Maryland: dittany. Lewis TH. **Md Med J** 1996 Mar;45(3):230–1
Outbreaks of Escherichia coli O157:H7 infection and cryptosporidiosis associated with drinking unpasteurized apple cider--Connecticut and New York, October 1996. **MMWR Morb Mortal Wkly Rep** 1997 Jan 10;46(1):4–8
Inhibition of human breast cancer cell proliferation and delay of mammary tumorigenesis by flavonoids and citrus juices. So FV, et al. **Nutr Cancer** 1996;26(2):167–81
Cranberry juice and urinary tract infections: is there a beneficial relationship? Kuzminski LN. **Nutr Rev** 1996 Nov; 54(11 Pt 2):S87–90 (27 ref.)
Thirst quenchers cool the summer worker. Kendrick JM. **Occup Health Saf** 1997 Jul;66(7):45–6
Excess fruit juice consumption by preschool–aged children is associated with short stature and obesity. Dennison BA, et al. **Pediatrics** 1997 Jan;99(1):15–22
Fruit juice consumption [letter] Dhurandhar NV. **Pediatrics** 1997 Oct;100(4):728–30
Fruit juice consumption [letter] Kennedy E, et al. **Pediatrics** 1997 Oct;100(4):728; discussion 729–30
Fruit juice consumption [letter] Stinson W. **Pediatrics** 1997 Oct;100(4):728; discussion 729–30
Effects of brief caffeinated–beverage deprivation on mood, symptoms, and psychomotor performance. Lane JD. **Pharmacol Biochem Behav** 1997 Sep;58(1):203–8
Influence of grapefruit juice on caffeine pharmacokinetics and pharmacodynamics. Maish WA, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1046–52
Potential influence of tea consumption on the development of cardiovascular disease [news] **S Afr Med J** 1997 Jun;87 Suppl 3:C185–6
The role of dairy products and non alcoholic beverages in bone fractures among schoolage children. Petridou E, et al. **Scand J Soc Med** 1997 Jun;25(2):119–25
Studies on leaching of Cr and Ni from stainless steel utensils in certain acids and in some Indian drinks. Agarwal P, et al. **Sci Total Environ** 1997 Jul 1;199(3):271–5
Possible aluminum content of canned drinks. Abercrombie DE, et al. **Toxicol Ind Health** 1997 Sep–Oct;13(5):649–54
The influence of food, beverages and NSAIDs on gastric acid secretion and mucosal integrity. Peterson WL. **Yale J Biol Med** 1996 Jan–Feb;69(1):81–4 (22 ref.)
[Alcohol and energy drink--can combined consumption of both beverages modify automobile driving fitness?] Riesselmann B, et al. **Blutalkohol** 1996 Jul;33(4):201–8 (Eng. Abstr.) **(Ger)**
[Study of methods of beta–carotene stabilization in powder concentrates for preparation of beverages] Berketova LV, et al. **Vopr Pitan** 1997;(2):10–1 (Eng. Abstr.) **(Rus)**
[Physical, chemical and microbiological quality of concentrated orange juices made in Venezuela] Cava RM, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):59–62 (Eng. Abstr.) **(Spa)**
[Development and optimization of an isotonic sports drink] López L, et al. **Arch Latinoam Nutr** 1994 Dec;44(4):256–63 (Eng. Abstr.) **(Spa)**
[Grapefruit juice caused hypotension (letter)] Nilsson I. **Lakartidningen** 1997 Jan 15;94(3):112–3 **(Swe)**

ADVERSE EFFECTS

Dental erosion, soft–drink intake, and oral health in young Saudi men, and the development of a system for assessing erosive anterior tooth wear. Johansson AK, et al. **Acta Odontol Scand** 1996 Dec;54(6):369–78
Is 'herbal health tonic' safe in pregnancy; fetal alcohol syndrome revisited. Pradeepkumar VK, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):420–3
Sports supplement drinks and dental health in competitive swimmers and cyclists. Milosevic A, et al. **Br Dent J** 1997 Apr 26;182(8):303–8
Acidogenecy of herbal baby drinks [letter; comment] Watkins J. **Br Dent J** 1996 Apr 6;180(7):247. Comment on: Br Dent J 1996 Feb 10;180(3):98–103.
Sports drinks and teeth [letter] Brouns F, et al. **Br J Sports Med** 1997 Sep;31(3):258
Mate drinking and risk of lung cancer in males: a case–control study from Uruguay. De Stefani E, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):515–9
In vitro study of enamel erosion caused by soft drinks and lemon juice in deciduous teeth analysed by stereomicroscopy and scanning electron microscopy. Grando LJ, et al. **Caries Res** 1996;30(5):373–8
Orange juice classification with a biologically based neural network. Dettmar HP, et al. **Comput Chem** 1996 Jun; 20(2):261–6
Airborne allergic contact dermatitis from tea tree oil. De Groot AC. **Contact Dermatitis** 1996 Nov;35(5):304–5
Contact dermatitis from chamomile tea. Pereira F, et al. **Contact Dermatitis** 1997 Jun;36(6):307
Orange juice–induced hyperkalemia in a diabetic patient with chronic renal failure [letter] Fan K, et al. **Diabetes Care** 1996 Dec;19(12):1457–8
Caffeinated beverages, decaffeinated coffee, and spontaneous abortion. Fenster L, et al. **Epidemiology** 1997 Sep; 8(5):515–23
Sports drinks and tooth decay [letter] Murray B, et al. **J Am Dent Assoc** 1997 Sep;128(9):1200, 1202, 1204
Bromism from excessive cola consumption. Horowitz BZ. **J Toxicol Clin Toxicol** 1997;35(3):315–20
Poppy tea and the baker's first seizure [letter] King MA, et al. **Lancet** 1997 Sep 6;350(9079):716
A case study of inappropriate idiopathic erythropoietin production in a patient on regular hemodialysis for 10 years: is beetjuice a factor? [letter] Dalmak S, et al. **Nephron** 1997; 75(1):118
Effect of grapefruit juice on cyclosporine pharmacokinetics [letter; comment] Majeed A, et al. **Pediatr Nephrol** 1996 Jun;10(3):395–6. Comment on: Pediatr Nephrol 1995 Feb;9(1):10.
Risks associated with consumption of herbal teas. Manteiga R, et al. **Rev Environ Contam Toxicol** 1997;150:1–30 (78 ref.)
[Factors which modify the nutritional state of iron: tannin content of herbal teas] Pizarro F, et al. **Arch Latinoam Nutr** 1994 Dec;44(4):277–80 (Eng. Abstr.) **(Spa)**

ANALYSIS

Haze and cloud in apple juices. Beveridge T. **Crit Rev Food Sci Nutr** 1997 Feb;37(1):75–91 (69 ref.)
Identification of 6',7'–dihydroxybergamottin, a cytochrome P450 inhibitor, in grapefruit juice. Edwards DJ, et al. **Drug Metab Dispos** 1996 Dec;24(12):1287–90
Determination of selenium levels in dairy products and drinks by hydride generation atomic absorption spectrometry: correlation with daily dietary intake. Diaz JP, et al. **Food Addit Contam** 1997 Feb–Mar;14(2):109–14
Determination of methylcyclopentadienyl manganese tricarbonyl in beverages by solid–phase microextraction. Forsyth DS, et al. **Food Addit Contam** 1997 Apr;14(3):301–7
Ochratoxin A in table wine and grape–juice: occurrence and risk assessment. Zimmerli B, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):655–68
Identification and quantitation of alkaloids in coca tea. Jenkins AJ, et al. **Forensic Sci Int** 1996 Feb 9;77(3):179–89
Unsuspected ethanol ingestion through soft drinks and flavored beverages [letter] Goldberger BA, et al. **J Anal Toxicol** 1996 Sep;20(5):332–3
Determination of patulin in apple juice by liquid chromatography: collaborative study. Brause AR, et al. **J AOAC Int** 1996 Mar–Apr;79(2):451–5
A simplified method for determining undeclared sweeteners added to pure orange juice. Iuliano TA. **J AOAC Int** 1996 Nov–Dec;79(6):1381–7
Detection of added beet sugar in concentrated and single strength fruit juices by deuterium nuclear magnetic resonance (SNIF–NMR method): collaborative study. Martin GG, et al. **J AOAC Int** 1996 Jul–Aug;79(4):917–28
Improved protocol for an oxygen electrode method for determining hydrogen peroxide in foods. Miyamoto F, et al. **J AOAC Int** 1997 May–Jun;80(3):681–7
Complementation of direct–injection high–performance liquid chromatography and enzyme–linked immunosorbent assay for the analysis of thiabendazole in fruit juices and concentrates. Bushway RJ. **J Chromatogr A** 1996 Nov 22; 754(1–2):431–5
Use of ion chromatography for monitoring microbial spoilage in the fruit juice industry. Trifirò A, et al. **J Chromatogr A** 1997 May 16;770(1–2):243–52
Refined exposure assessment for ingestion of tapwater contaminated with hexavalent chromium: consideration of exogenous and endogenous reducing agents. Kerger BD, et al. **J Expo Anal Environ Epidemiol** 1996 Apr–Jun; 6(2):163–79
Post–exercise rehydration in man: effects of volume consumed and drink sodium content. Shirreffs SM, et al. **Med Sci Sports Exerc** 1996 Oct;28(10):1260–71
Fluoride content of drinking–water and beverages in Jordan [letter] Hattab FN, et al. **World Health Forum** 1997; 18(1):69–70
[Hidden alcohol in foods?] Greubel S. **Med Monatsschr Pharm** 1997 Aug;20(8):218–9 **(Ger)**
[Exposure of inhabitants of Poznan to fluorides. I. Fluorides in atmospheric air, tap water and selected additional fluids] Oporowska–Moszyk K, et al. **Rocz Panstw Zakl Hig** 1997; 48(1):47–52 (Eng. Abstr.) **(Pol)**

CLASSIFICATION

Orange juice classification with a biologically based neural network. Dettmar HP, et al. **Comput Chem** 1996 Jun; 20(2):261–6

MICROBIOLOGY

Outbreaks of Escherichia coli O157:H7 infection associated with drinking unpasteurized apple cider--October 1996. Update on emerging infections from the Centers for Disease Control and Prevention. **Ann Emerg Med** 1997 May; 29(5):645–6

Outbreaks of Escherichia coli O157:H7 infection and cryptosporidiosis associated with drinking unpasteurized apple cider--Connecticut and New York, October 1996. **Can Commun Dis Rep** 1997 Mar 1;23(5):37–40 **(Eng, Fre)**

Environmental mycobacteria in bottled table waters in Greece. Papapetropoulou M, et al. **Can J Microbiol** 1997 May;43(5):499–502

Bodybuilders, raw egg drink, and Salmonella enteritidis. Barnes GH, et al. **Commun Dis Rep CDR Rev** 1996 Mar 29;6(4):R67

Unpasteurised apple juice causes outbreak of haemolytic uraemic syndrome in North America. **Commun Dis Rep CDR Wkly** 1996 Nov 15;6(46):399

Microflora of Boza, a traditional fermented Turkish beverage. Hancioğlu O, et al. **Int J Food Microbiol** 1997 Apr 15; 35(3):271–4

From the Centers for Disease Control and Prevention. Outbreak of Escherichia coli O157:H7 infections associated with drinking unpasteurized commercial apple juice--British Columbia, California, Colorado, and Washington, October 1996. **JAMA** 1996 Dec 18; 276(23):1865

Outbreak of Escherichia coli O157:H7 infections associated with drinking unpasteurized commercial apple juice--British Columbia, California, Colorado, and Washington, October 1996. **MMWR Morb Mortal Wkly Rep** 1996 Nov 8;45(44):975

Time to B. cereus about hot chocolate. Nelms PK, et al. **Public Health Rep** 1997 May–Jun;112(3):240–4

POISONING

Multiple organ failure after ingestion of pennyroyal oil from herbal tea in two infants. Bakerink JA, et al. **Pediatrics** 1996 Nov;98(5):944–7

STANDARDS

Influence of a carbohydrate drink on performance of military personnel in NBC protective clothing. van Dokkum W, et al. **Aviat Space Environ Med** 1996 Sep;67(9):819–26

Aluminum content of various canned and bottled beverages. Aikoh H, et al. **Bull Environ Contam Toxicol** 1996 Jan; 56(1):1–7

STATISTICS & NUMERICAL DATA

Green tea intake in relation to serum lipid levels in Middle-aged Japanese men and women. Tsubono Y, et al. **Ann Epidemiol** 1997 May;7(4):280–4

UTILIZATION

[New caffeinated beverages. A pilot survey of familiarity and consumption by adolescents in North-Rhine Westphalia and Berlin and considerations of consumer protection] Viell B, et al. **Z Ernahrungswiss** 1996 Dec;35(4):378–86 (Eng. Abstr.) **(Ger)**

BEZAFIBRATE

ADMINISTRATION & DOSAGE

[A comparison of bezafibrate and lovastatin treatment at the usual doses in post-heart transplant hyperlipemia] Zambrana García JL, et al. **Rev Esp Cardiol** 1996 Dec; 49(12):892–8 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Elevated blood concentrations of cyclosporine and kidney failure after bezafibrate in renal graft recipient [letter] Hirai M, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):883–4

Bone scintigraphy of drug-induced rhabdomyolysis: antihyperlipidemia agent. Takayama T, et al. **Clin Nucl Med** 1996 Dec;21(12):988–9

Morphometry of abnormal peroxisomes induced by withdrawal of bezafibrate, a hypolipidemic drug in male rat hepatocytes. Kondo K, et al. **J Vet Med Sci** 1997 Apr; 59(4):297–9

Rhabdomyolysis and acute renal failure associated with bezafibrate treatment [letter] Górriz JL, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2371–2

Renal function changes in diabetic nephropathy induced by bezafibrate [letter] Bruce R, et al. **Nephron** 1996;73(3):490

Severe rhabdomyolysis induced by a retard formulation of bezafibrate in a CAPD patient [letter] Panuccio V, et al. **Nephron** 1996;73(4):736

BLOOD

Determination of bezafibrate, ciprofibrate and fenofibric acid in human plasma by high-performance liquid chromatography. Masnatta LD, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):437–42

Blood monitoring of bezafibrate in a chronic hemodialysis patient [letter] Takeda K, et al. **Nephron** 1997;76(4):487–8

CHEMISTRY

Photodegradation of bezafibrate in aqueous media. Studies of its in vitro phototoxicity. Canudas N, et al. **Arzneimittelforschung** 1996 Jul;46(7):694–7

Potent hypocholesterolemic activity of novel ureido phenoxyisobutyrates correlates with their intrinsic fibrate potency and not with their ACAT inhibitory activity. Hawke RL, et al. **J Lipid Res** 1997 Jun;38(6):1189–203

PHARMACOLOGY

Effects of bezafibrate on ethanol oxidation in rats. Tsukamoto S, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1599–603

Opposite effects of bezafibrate and gemfibrozil in both normal and hypertriglyceridemic rats. Krause BR, et al. **Atherosclerosis** 1996 Nov 15;127(1):91–101

The role of phosphatidylethanolamine methylation in the secretion of very low density lipoproteins by cultured rat hepatocytes: rapid inhibition of phosphatidylethanolamine methylation by bezafibrate increases the density of apolipoprotein B48-containing lipoproteins. Nishimaki-Mogami T, et al. **Biochim Biophys Acta** 1996 Nov 11;1304(1):21–31

Plasminogen activator inhibitor type 1 secretion by HepG2 cells: opposite effects of two fibric acid derivatives [letter] Mussoni L, et al. **Blood Coagul Fibrinolysis** 1996 Jun; 7(4):503–5

Improved insulin sensitivity by bezafibrate in rats: relationship to fatty acid composition of skeletal-muscle triglycerides. Matsui H, et al. **Diabetes** 1997 Mar; 46(3):348–53

Modulation of cardiac intermediate filament proteins in the chick heart by fibric acid derivatives. Aranega AE, et al. **Eur J Morphol** 1995 Nov;33(5):421–31

Effect of bezafibrate on HDL with APO A-I and APO A-II and on HDL with APO A-I without APO A-II in hyperlipidaemic patients. Branchi A, et al. **Int J Clin Pharmacol Res** 1995;15(4):153–8

Potent hypocholesterolemic activity of novel ureido phenoxyisobutyrates correlates with their intrinsic fibrate potency and not with their ACAT inhibitory activity. Hawke RL, et al. **J Lipid Res** 1997 Jun;38(6):1189–203

Ultrastructural observation of changes in (hepatic) peroxisomes by 3 to 90 days administration of bezafibrate in male rats. Kondo K, et al. **J Vet Med Sci** 1996 Aug; 58(8):743–8

Stimulation of decreased lipoprotein lipase activity in the tumor-bearing state by the antihyperlipidemic drug bezafibrate. Nomura K, et al. **Surg Today** 1996;26(2):89–94

Effect of bezafibrate on hypercoagulability assessed by fluorogenic prothrombin time in hyperlipidemic patients with non-insulin-dependent diabetes mellitus. Yoshinari M, et al. **Thromb Res** 1997 Jun 15;86(6):443–51

Hepatic microsomal enzyme induction, beta-oxidation, and cell proliferation following administration of clofibrate, gemfibrozil, or bezafibrate in the CD rat. Amacher DE, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):143–50

RADIATION EFFECTS

Photodegradation of bezafibrate in aqueous media. Studies of its in vitro phototoxicity. Canudas N, et al. **Arzneimittelforschung** 1996 Jul;46(7):694–7

THERAPEUTIC USE

Paradoxical high-density lipoprotein reduction induced by fibrate therapy [letter] Oleesky DA, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):573–4

Effect of fluvastatin or bezafibrate on the distribution of high density lipoprotein subpopulations in patients with familial hypercholesterolemia. Hailer S, et al. **Arzneimittelforschung** 1996 Sep;46(9):879–83

Chemoprevention of radiation-induced mammary tumors in rats by bezafibrate administered together with diethylstilbestrol as a promoter. Inano H, et al. **Carcinogenesis** 1996 Dec;17(12):2641–6

Retardation of coronary atherosclerosis: the Bezafibrate Coronary Atherosclerosis Intervention Trial (BECAIT) and other angiographic trials. de Faire U, et al. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:257–63 (44 ref.)

Improved glucose tolerance after effective lipid-lowering therapy with bezafibrate in a patient with lipoatrophic diabetes mellitus: a putative role for Randle's cycle in its pathogenesis? Panz VR, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):365–8

Comparison of bezafibrate and simvastatin in the treatment of dyslipidaemia in patients with NIDDM [see comments] Jeck T, et al. **Diabet Med** 1997 Jul;14(7):564–70. Comment in: Diabet Med 1997 Jul;14(7):513–6.

Bezafibrate. An update of its pharmacology and use in the management of dyslipidaemia [published erratum appears in Drugs 1997 Jan;53(1):188] Goa KL, et al. **Drugs** 1996 Nov;52(5):725–53 (187 ref.)

Secondary preventive potential of lipid-lowering drugs. The Bezafibrate Coronary Atherosclerosis Intervention Trial (BECAIT). de Faire U, et al. **Eur Heart J** 1996 Dec;17 Suppl F:37–42 (28 ref.)

Atherogenic risk reduction in patients with dyslipidaemia. comparison between bezafibrate and lovastatin. Sinzinger H, et al. **Eur Heart J** 1995 Nov;16(11):1491–501

Post-prandial metabolism of triglyceride-rich lipoproteins in non-insulin-dependent diabetic patients before and after bezafibrate treatment. Attia N, et al. **Eur J Clin Invest** 1997 Jan;27(1):55–63

Comparative effects of bezafibrate and micronised fenofibrate in patients with type III hyperlipoproteinemia. Feussner G, et al. **Eur J Med Res** 1997 Apr 21;2(4):165–8

A lipid lowering drug (bezafibrate) has a favorable effect on liver enzymes (Al-P and gamma-GTP). Fukuo Y, et al. **Nippon Ika Daigaku Zasshi** 1996 Oct;63(5):424–30

Comparative efficacy and safety of ciprofibrate and sustained-release bezafibrate in patients with type II hyperlipidaemia. Betteridge DJ, et al. **Postgrad Med J** 1996 Dec;72(854):739–43

BEZOARS

Trichobezoar in a 11-year old girl: a case report. Santiago Sánchez CA, et al. **Bol Asoc Med P R** 1996 Jan–Mar; 88(1–3):8–11

Colonic chemobezoar--intestinal obstruction due to barium inspissation. Pai ML, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):114–5

Colonic sunflower seed bezoar. Tsou VM, et al. **Pediatrics** 1997 Jun;99(6):896–7

CHEMICALLY INDUCED

Bezoar in a preterm baby associated with sucralfate. Strozik KS, et al. **Clin Pediatr (Phila)** 1996 Aug;35(8):423–4

[Esophageal bezoar in a child treated with sucralfate] Razafimahefa H, et al. **Arch Pediatr** 1997 Jul;4(7):659–61 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Small bowel obstruction due to phytobezoar: CT diagnosis. Ko S, et al. **Abdom Imaging** 1997 Sep–Oct;22(5):471–3

Small bowel obstruction secondary to bezoar: CT diagnosis. Quiroga S, et al. **Abdom Imaging** 1997 May–Jun;22(3):315–7

Food impaction in a duodenal diverticulum as an unusual cause of biliary obstruction: case reports and review of the literature. van der Linde K, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):635–9 (64 ref.)

Bezoar manifested with digestive and biliary obstruction. Yin WY, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1037–45

Duodenal trichobezoar presenting as intestinal obstruction. Bhukhanwala FA, et al. **J Assoc Physicians India** 1996 Oct; 44(10):725–6

Can a bezoar cause acute pancreatitis? Katapadi M, et al. **J Clin Gastroenterol** 1997 Mar;24(2):120–1 (12 ref.)

Carpet bezoar obstruction of the small intestine. Wang PY, et al. **J Pediatr Surg** 1996 Dec;31(12):1691–3

DIAGNOSIS

Cases of the month: three children with abdominal complaints. Kolho KL, et al. **Eur J Pediatr** 1997 Jan; 156(1):75–6

An unusual late complication of gastric surgery. Calder F, et al. **Postgrad Med J** 1997 Jun;73(860):363–4

[Rapunzel syndrome: a report of a new case] Uroz Tristán J, et al. **Cir Pediatr** 1996 Jan;9(1):40–1 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Small-bowel obstruction during enzymatic treatment of gastric bezoar. Nomura H, et al. **Endoscopy** 1997 Jun; 29(5):424–6

ETIOLOGY

Intestinal obstruction by a bezoar from tube feedings. O'Neil HK, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1477–8

Afferent loop syndrome complicated by a duodenal phytobezoar after Billroth-II subtotal gastrectomy. Hui MS, et al. **Am J Gastroenterol** 1997 Sep;92(9):1550–2

Bezoars: implicated drugs and avoidance strategies. Thompson KC, et al. **Drug Saf** 1996 Feb;14(2):85–93 (80 ref.)

Esophageal bezoar resulting from enteral feedings. Cremer SA, et al. **JPEN J Parenter Enteral Nutr** 1996 Sep–Oct; 20(5):371–3

Gastric lactobezoar: a rare cause of gastric outlet obstruction. Bakken DA, et al. **Pediatr Emerg Care** 1997 Aug; 13(4):264–7

A case of plastikophagia. Battin M, et al. **Postgrad Med J** 1997 Apr;73(858):243–4

[Giant "cast" bezoar in the stomach removable only by surgery] Réti György A, et al. **Orv Hetil** 1997 Jan 19; 138(3):149–51 (Eng. Abstr.) **(Hun)**

MICROBIOLOGY

Bilateral fungal bezoars in the renal pelvis. Patel B, et al. **Br J Urol** 1996 Oct;78(4):651–2

PSYCHOLOGY

[Trichobezoar: apropos of a case] Aboussad A, et al. **Rev Med Suisse Romande** 1997 Jan;117(1):73–5 **(Fre)**

RADIOGRAPHY

Small bowel obstruction due to phytobezoar: CT diagnosis. Ko S, et al. **Abdom Imaging** 1997 Sep–Oct;22(5):471–3

BEZOARS

Images in clinical medicine. Trichobezoars. Navab F, et al. **N Engl J Med** 1997 Jun 12;336(24):1721

[Chronic recurrent ileus. Recurrent mechanical ileus of the small intestine caused by a high fiber diet (canned asparagus)] Wörtler K, et al. **Radiologe** 1997 Jan;37(1):95–7 **(Ger)**

[Radiologic diagnosis of small bowel phytobezoar. Report of a case] Giusti P, et al. **Radiol Med (Torino)** 1996 Jul–Aug; 92(1–2):145–7 **(Ita)**

SURGERY

Trichobezoars as a cause of gastrointestinal obstructions: the Rapunzel syndrome. Seker B, et al. **Acta Gastroenterol Belg** 1996 Apr–Jun;59(2):166–7

Unusual multiple phytobezoars in a child. Nagar RC. **J Indian Med Assoc** 1996 Aug;94(8):324

Bezoar formation and malabsorption secondary to persistent dilatation and dysmotility of the duodenum after repair of proximal jejunal atresia. Ellaway C, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):190–1

Rapunzel syndrome. Senapati MK, et al. **Trop Doct** 1997 Jan; 27(1):53–4

VETERINARY

Nutritional support for rabbits using the percutaneously placed gastrostomy tube: a preliminary study. Smith DA, et al. **J Am Anim Hosp Assoc** 1997 Jan–Feb;33(1):48–54

Equine gastric impaction, ulceration, and perforation due to persimmon (Diospyros virginiana) ingestion. Cummings CA, et al. **J Vet Diagn Invest** 1997 Jul;9(3):311–3

Gastric trichobezoar in a banner-tailed kangaroo rat (Dipodomys spectabilis). Suckow MA, et al. **Lab Anim** 1996 Oct;30(4):383–5

High prevalence of gastric trichobezoars (hair balls) in Wistar-Kyoto rats fed a semi-purified diet. Krugner-Higby L, et al. **Lab Anim Sci** 1996 Dec;46(6):635–9

BFDV see **CIRCOVIRUS**

BHANG see **CANNABIS**

BHM VIRUS see **HERPESVIRUS 2, BOVINE**

BIACETYL see **DIACETYL**

BIANILINES see **BENZIDINES**

BIAS (EPIDEMIOLOGY)

Is there a bias against performing coronary revascularization in women? [editorial] Weintraub WS, et al. **Am J Cardiol** 1996 Nov 15;78(10):1154–60

Regression calibration method for correcting measurement-error bias in nutritional epidemiology. Spiegelman D, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1179S–1186S (35 ref.)

Correcting for measurement error in the analysis of case-control data with repeated measurements of exposure. Kim MY, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1003–10

Misclassification bias in estimates of bereavement effects. Korenman S, et al. **Am J Epidemiol** 1997 Jun 1; 145(11):995–1002

Misclassification model for person-time analysis of automated medical care databases. Mullooly JP. **Am J Epidemiol** 1996 Oct 15;144(8):782–92

Measurement error correction for logistic regression models with an "alloyed gold standard". Spiegelman D, et al. **Am J Epidemiol** 1997 Jan 15;145(2):184–96

The correction of risk estimates for measurement error. Bashir SA, et al. **Ann Epidemiol** 1997 Feb;7(2):154–64 (34 ref.)

Where's the bias? [editorial; comment] Davidoff F. **Ann Intern Med** 1997 Jun 15;126(12):986–8. Comment on: Ann Intern Med 1996 Jul 15;125(2):81–8.

"Type III" errors in rehab efficacy analyses [letter] Basmajian JV. **Arch Phys Med Rehabil** 1996 Dec;77(12):1326

"Volunteer bias" in clinical pharmacological studies. Meyer FP. **Arzneimittelforschung** 1997 Jun;47(6):787–8; discussion 788–9

Weighted estimating equations with nonignorably missing response data. Troxel AB, et al. **Biometrics** 1997 Sep; 53(3):857–69

A nonparametric maximum likelihood estimator for the receiver operating characteristic curve area in the presence of verification bias. Zhou XH. **Biometrics** 1996 Mar; 52(1):299–305

Bias in meta-analysis detected by a simple, graphical test. Egger M, et al. **BMJ** 1997 Sep 13;315(7109):629–34

Health quality data: are flawed data better than none? [editorial; comment] [see comments] Clough JD. **Cleve Clin J Med** 1996 Mar–Apr;63(2):75–6. Comment on: Cleve Clin J Med 1996 Mar–Apr;63(2):124–8. Comment in: Cleve Clin J Med 1996 Sep;63(5):303–4.

Bias against the null hypothesis in maternal-fetal pharmacology and toxicology. Koren G. **Clin Pharmacol Ther** 1997 Jul;62(1):1–5 (21 ref.)

Blinding during data analysis and writing of manuscripts. Gøtzsche PC. **Control Clin Trials** 1996 Aug;17(4):285–90; discussion 290–3

Masking drug treatments in the Cardiac Arrhythmia Pilot Study (CAPS). FASHP for the CAPS Investigators. Haakenson C, et al. **Control Clin Trials** 1996 Aug; 17(4):294–303

Historical control bias: adjuvant chemotherapy in esophageal cancer. Bhansali MS, et al. **Dis Esophagus** 1997 Jan; 10(1):51–4

The performance of several indicators in detecting recall bias. European Study Group on Infertility and Subfecundity. Basso O, et al. **Epidemiology** 1997 May;8(3):269–74

Seasonality bias in poor reproductive outcome [letter; comment] Stolwijk AM, et al. **Epidemiology** 1996 Sep; 7(5):561–2. Comment on: Epidemiology 1995 Sep;6(5):520–4.

Control of bias in dietary trial to prevent coronary recurrences: The Lyon Diet Heart Study. de Lorgeril M, et al. **Eur J Clin Nutr** 1997 Feb;51(2):116–22

Assessment of bias in the SENECA study. van't Hof MA, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 2:S4–8

Risk of alcoholism and parental history: gender differences and a possible reporting bias. Crum RM, et al. **Genet Epidemiol** 1996;13(4):329–41

Adjusting for bias in C/E ratio estimates [letter] Stinnett AA. **Health Econ** 1996 Sep–Oct;5(5):470–2

The selectivity of inclusion and exclusion criteria in bulimia nervosa treatment studies. Mitchell JE, et al. **Int J Eat Disord** 1997 Nov;22(3):243–52

Participation bias in a sexuality survey: psychological and behavioural characteristics of responders and non-responders. Dunne MP, et al. **Int J Epidemiol** 1997 Aug;26(4):844–54

Basic methods for sensitivity analysis of biases. Greenland S. **Int J Epidemiol** 1996 Dec;25(6):1107–16

Publication bias in obesity treatment trials? Allison DB, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):931–7

Demographic biases found in scoring instruments of total hip arthroplasty. Brinker MR, et al. **J Arthroplasty** 1996 Oct;11(7):820–30

Demographic biases of scoring instruments for the results of total knee arthroplasty. Brinker MR, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):858–65

Are there sex biases in standardized tests of radiation oncology knowledge? Halperin EC, et al. **J Clin Oncol** 1997 Jul;15(7):2722–7

Detecting poor design, erroneous analysis and misinterpretation of studies. Appleton DR. **J Eval Clin Pract** 1995 Nov;1(2):113–7 (8 ref.)

Bias effects in implicit memory tasks. Ratcliff R, et al. **J Exp Psychol Gen** 1996 Dec;125(4):403–21

Induced abortion and risk for breast cancer: reporting (recall) bias in a Dutch case-control study [see comments] Rookus MA, et al. **J Natl Cancer Inst** 1996 Dec 4;88(23):1759–64 . Comment in: J Natl Cancer Inst 1996 Dec 4;88(23):1698–700. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):588–90.

Induced abortion, bias, and breast cancer: why epidemiology hasn't reached its limit [editorial; comment] [see comments] Weed DL, et al. **J Natl Cancer Inst** 1996 Dec 4; 88(23):1698–700. Comment on: J Natl Cancer Inst 1996 Dec 4;88(23):1759–64. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):588–90.

Evaluation of bias and logistics in a survey of adults at increased risk for oral health decrements. Gilbert GH, et al. **J Public Health Dent** 1997 Winter;57(1):48–58

Nonresponse bias in a survey of Ontario dentists' infection control and attitudes concerning HIV. McCarthy GM, et al. **J Public Health Dent** 1997 Winter;57(1):59–62

Context bias. A problem in diagnostic radiology [see comments] Egglin TK, et al. **JAMA** 1996 Dec 4; 276(21):1752–5. Comment in: JAMA 1997 Feb 26;277(8):628.

Radiologists' interpretations: the problem of context bias [letter; comment] Vermont AI. **JAMA** 1997 Feb 26; 277(8):628. Comment on: JAMA 1996 Dec 4;276(21):1752–5.

Midwife-managed care [letter; comment] Grant JM. **Lancet** 1996 Oct 26;348(9035):1172; discussion 1172–3. Comment on: Lancet 1996 Jul 27;348(9022):208. Comment on: Lancet 1996 Jul 27;348(9022):213–8.

Beta 3-adrenergic receptor gene variant and Japanese NIDDM: a pitfall in meta-analysis [letter; comment] Odawara M, et al. **Lancet** 1996 Sep 28;348(9031):896–7. Comment on: Lancet 1996 Jul 20;348(9021):199.

Survival analysis: the importance of censored observations. Watt DC, et al. **Melanoma Res** 1996 Oct;6(5):379–85

Repeated measures estimation of measurement bias for self-reported drug use with applications to the National Household Survey on Drug Abuse. Biemer PP, et al. **NIDA Res Monogr** 1997;167:439–76

Verification bias: a pitfall in evaluating screening tests. Donald A. **Nurs Res** 1996 Nov–Dec;45(6):350–2

Modifiers of non-specific symptoms in occupational and environmental syndromes [letter; comment] van der Gulden JW, et al. **Occup Environ Med** 1997 Apr; 54(4):285–6. Comment on: Occup Environ Med 1996 Jun;53(6):361–6.

Use of the standard error as a reliability index of interest: an applied example using elbow flexor strength data. Stratford PW, et al. **Phys Ther** 1997 Jul;77(7):745–50

Sources of selection bias in evaluating social programs: an interpretation of conventional measures and evidence on the effectiveness of matching as a program evaluation method. Heckman JJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13416–20

Age-at-interview bias in anticipation studies: computer simulations and an example with panic disorder. Heiman GA, et al. **Psychiatr Genet** 1996 Summer;6(2):61–6

Effects of affective-semantic mode of item presentation in balanced self-report scales: biased construct validity of the Zung Self-rating Depression Scale. Schotte CK, et al. **Psychol Med** 1996 Nov;26(6):1161–8

Design and statistical problems in prevention. Gullberg B. **Scand J Rheumatol Suppl** 1996;103:108–10

Item bias in self-reported functional ability among 75-year-old men and women in three Nordic localities. Avlund K, et al. **Scand J Soc Med** 1996 Sep;24(3):206–17

Analysis of multivariate reliability structures and the induced bias in linear model estimation. Aickin M, et al. **Stat Med** 1996 Aug 15;15(15):1647–61

Disease mapping with errors in covariates. Bernardinelli L, et al. **Stat Med** 1997 Apr 15;16(7):741–52

Statistical analysis of possible bias of clinical judgements due to observing an on-therapy marker variable. Boateng F, et al. **Stat Med** 1996 Aug 30;15(16):1747–55

How independent are multiple 'independent' diagnostic classifications? Brenner H. **Stat Med** 1996 Jul 15; 15(13):1377–86

Jackknife bias reduction for polychotomous logistic regression. Bull SB, et al. **Stat Med** 1997 Mar 15; 16(5):545–60

Estimating the completeness of prevalence based on cancer registry data. Capocaccia R, et al. **Stat Med** 1997 Feb 28; 16(4):425–40

A comparison of statistical methods for clustered data analysis with Gaussian error. Feng Z, et al. **Stat Med** 1996 Aug 30;15(16):1793–806

Disease cluster statistics for imprecise space-time locations. Jacquez GM. **Stat Med** 1996 Apr 15–May 15; 15(7–9):873–85 (29 ref.)

Confidence limits based on the first occurrence of an event [letter; comment] Liu Q. **Stat Med** 1997 Mar 30;16(6):711–2 . Comment on: Stat Med 1993 Apr 15;12(7):685–90.

The spatial autocorrelation coefficient Moran's I under heteroscedasticity. Waldhör T. **Stat Med** 1996 Apr 15–May 15;15(7–9):887–92

Limitations to the robustness of binormal ROC curves: effects of model misspecification and location of decision thresholds on bias, precision, size and power. Walsh SJ. **Stat Med** 1997 Mar 30;16(6):669–79

Accuracy of indirect estimates of maternal mortality: a simulation model. Garenne M, et al. **Stud Fam Plann** 1997 Jun;28(2):132–42

[Bias in evaluation of medical research (editorial)] Højgaard L. **Ugeskr Laeger** 1997 Sep 8;159(37):5500 **(Dan)**

[Bias due to non-responders in an epidemiological study (SAPALDIA)] Luthi JC, et al. **Soz Praventivmed** 1997; 42(2):85–94 (Eng. Abstr.) **(Fre)**

[Various errors often made in scientific studies (letter)] Martín JF, et al. **Med Clin (Barc)** 1997 May 3;108(17):678–9 **(Spa)**

[IBM, money, calcium antagonists and bias (letter)] Hernborg A. **Lakartidningen** 1996 Nov 13;93(46):4136 **(Swe)**

BIAS, AGGREGATION see **BIAS (EPIDEMIOLOGY)**

BIAS, ECOLOGICAL see **BIAS (EPIDEMIOLOGY)**

BIAS, OBSERVER see **OBSERVER VARIATION**

BIAS, SELECTION see **SELECTION BIAS**

BIAS, STATISTICAL see **BIAS (EPIDEMIOLOGY)**

BIAS, SYSTEMATIC see **BIAS (EPIDEMIOLOGY)**

BIBENZYLS

CHEMICAL SYNTHESIS

Synthesis of biologically active polyphenolic glycosides (combretastatin and resveratrol series). Orsini F, et al. **Carbohydr Res** 1997 Jun 20;301(3–4):95–109

CHEMISTRY

Molecular similarity analysis on biologically active macrocyclic bis(bibenzyls). Keserü GM, et al. **J Mol Recognit** 1996 Mar–Apr;9(2):133–8

ISOLATION & PURIFICATION

Lipoxygenase inhibition and antioxidant properties of bisbenzylisoqunoline alkaloids isolated from Mahonia aquifolium. Bezáková L, et al. **Pharmazie** 1996 Oct; 51(10):758–61

PHARMACOLOGY

A novel K+ channel blocker isolated from 'hiccup nut' toxin. Guatteo E, et al. **Neuroreport** 1996 Nov 4;7(15–17):2575–9

BIBLE

Was the fetal alcohol syndrome recognized in the ancient Near East? Abel EL. **Alcohol Alcohol** 1997 Jan–Feb; 32(1):3–7

The Holy Bible: insights into perinatal practice in ancient times. Dunn PM. **Arch Dis Child Fetal Neonatal Ed** 1996

Nov;75(3):F219–20
Obstetric practices in the Bible [letter] Jacobs J. **Arch Dis Child Fetal Neonatal Ed** 1997 May;76(3):F214
Biblical behavior modification. Lasure LC, et al. **Behav Res Ther** 1996 Jul;34(7):563–6
Old age in Biblical and Talmudic lore. Kottek SS. **Isr J Med Sci** 1996 Aug;32(8):702–3
Death: an enemy? Reflections on 1 Corinthians 15:26. Fleischmann RR. **Issues Law Med** 1996 Spring;11(4):411–30
Religious perspectives on access to health care: a protestant perspective. Forbes JA Jr. **Mt Sinai J Med** 1997 Mar; 64(2):75–9
Neurosurgery and the Holy Bible. Moskopp D. **Neurosurg Rev** 1996;19(2):97–104
Doctor James Young Simpson, Rabbi Abraham De Sola, and Genesis Chapter 3, verse 16. Cohen J. **Obstet Gynecol** 1996 Nov;88(5):895–8
Psychoanalysis and Kabbalah. Berke JH. **Psychoanal Rev** 1996 Dec;83(6):849–63
Was Isaac diabetic? Reisenberger AT. **S Afr Med J** 1996 Oct;86(10):1290–1
[Biblical neurology. Letter] Barcia Goyanes JJ. **Rev Neurol** 1997 Jan;25(137):143–4 **(Spa)**
[The Bible and neurological and psychiatric pathology. Letter] Pérez-Trullén JM. **Rev Neurol** 1997 Jan; 25(137):144–5 **(Spa)**

BIBLIOGRAPHY

see related
DOCUMENTATION

How accurate are references in the Australian and New Zealand Journal of Surgery? Ngan Kee WD, et al. **Aust N Z J Surg** 1997 Jul;67(7):417–9
Mapping the literature of radiologic technology. Burnham JF. **Bull Med Libr Assoc** 1997 Jul;85(3):289–92
Mapping the literature of respiratory therapy. Burnham JF. **Bull Med Libr Assoc** 1997 Jul;85(3):293–6
Mapping the literature of allied health: project overview. Schloman BF. **Bull Med Libr Assoc** 1997 Jul;85(3):271–7
Mapping the literature of health education. Schloman BF. **Bull Med Libr Assoc** 1997 Jul;85(3):278–83
Mapping the literature of speech-language pathology. Slater LG. **Bull Med Libr Assoc** 1997 Jul;85(3):297–302
Analyzing the research record of an institution's list of faculty publications. Vieira D, et al. **Bull Med Libr Assoc** 1997 Apr;85(2):154–7
Mapping the literature of physical therapy. Wakiji EM. **Bull Med Libr Assoc** 1997 Jul;85(3):284–8
Reference accuracy in Intensive Care Medicine [letter] Mikawa K, et al. **Intensive Care Med** 1996 Feb;22(2):176–7
Quotation accuracy in neuroanesthesiologic research. Kolbitsch C, et al. **J Neurosurg Anesthesiol** 1997 Jan; 9(1):8–10
Electromagnetic fields and cancer: incorrect citations [letter] Jauchem JR. **Occup Environ Med** 1997 May;54(5):359–60
[The completion of the work on collecting and classifying the Russian literature on forensic medicine (news)] Viter VI, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):50 **(Rus)**
[Books published in Spain on smoking] Guardiola E, et al. **Arch Bronconeumol** 1996 Dec;32(10):535–40 (Eng. Abstr.) **(Spa)**
[Errors in bibliographic references in the Revista Española de Anestesiología y Reanimación: retrospective study of 1994] Avila FJ, et al. **Rev Esp Anestesiol Reanim** 1996 May; 43(5):174–6 (Eng. Abstr.) **(Spa)**
[Bibliographic errors in Revista Española de Enfermedades Digestivas. A retrospective study of the year 1995] Acea Nebril B, et al. **Rev Esp Enferm Dig** 1997 Mar;89(3):212–4 (Eng. Abstr.) **(Spa)**

BIBLIOGRAPHY, NATIONAL

[Anniversary of the National Medical Bibliography] Drbálek J. **Cas Lek Cesk** 1996 Nov 6;135(21):700–1 (Eng. Abstr.) **(Cze)**

BIBLIOGRAPHY OF MEDICINE

[Recording scientific literature--problems with citation] Reiss M, et al. **Wien Med Wochenschr** 1997;147(11):279–82 (Eng. Abstr.) **(Ger)**
[Bibliographies of medical books in Bosnia and Herzegovina] Omanić A. **Med Arh** 1997;51(1–2):51–4 (Eng. Abstr.) **(Scr)**

BIBLIOGRAPHY, STATISTICAL see **BIBLIOMETRICS**

BIBLIOMETRICS

Mapping the literature of allied health: project overview. Schloman BF. **Bull Med Libr Assoc** 1997 Jul;85(3):271–7
Quality-of-life assessment: recent trends in surgery. Wood-Dauphinee S. **Can J Surg** 1996 Oct;39(5):368–72
Scientific publications from departments of clinical physiology and nuclear medicine in Denmark. A bibliometric analysis of 'impact' in the years 1989–1994. Hansen HB, et al. **Clin Physiol** 1996 Sep;16(5):507–19
Health economic reviews. Are they compiled systematically? Rigby K, et al. **Int J Technol Assess Health Care** 1996 Summer;12(3):450–9
Role of neurological research in rehabilitation after central nervous system diseases [letter; comment] Mari F, et al. **Ital J Neurol Sci** 1996 Jun;17(3):255–6. Comment on: Ital J Neurol Sci 1995 Oct;16(7):473–7.
The bibliographic "impact factor" of the Institute for Scientific Information: how relevant is it really for public health journals? Porta M. **J Epidemiol Community Health** 1996 Dec;50(6):606–10
Scientific research on the pineal gland and melatonin: a bibliometric study for the period 1966–1994. López-Muñoz F, et al. **J Pineal Res** 1996 Apr;20(3):115–24
Validation of dental implant systems through a review of literature supplied by system manufacturers. Eckert SE, et al. **J Prosthet Dent** 1997 Mar;77(3):271–9 (157 ref.)
EU eliminates citation gap with America [news] **Nature** 1997 Jun 5;387(6633):537
Alphabets and citations [letter; comment] Alexander J, et al. **Nature** 1997 Mar 13;386(6621):112–3. Comment on: Nature 1997 Feb 6;385(6616):480.
Who cares what's new? [letter] Batchelor MT, et al. **Nature** 1997 May 22;387(6631):337
Unequal letters [letter] [see comments] Jaekel KT. **Nature** 1997 Apr 17;386(6626):643. Comment in: Nature 1997 Aug 7;388(6642):511.
Alphabetical listing and citation rates [letter; comment] [see comments] Shevlin M, et al. **Nature** 1997 Jul 3;388(6637):14 . Comment on: Nature 1997 Feb 6;385(6616):480. Comment in: Nature 1997 Aug 7;388(6642):511.
Alphabetical orders [letter; comment] Tregenza T. **Nature** 1997 Aug 7;388(6642):511. Comment on: Nature 1997 Apr 17;386(6626):643. Comment on: Nature 1997 Jul 3;388(6637):14.
Darwin a better name than Wallace? [letter] [see comments] Tregenza T. **Nature** 1997 Feb 6;385(6616):480. Comment in: Nature 1997 Mar 13;386(6621):112–3. Comment in: Nature 1997 Jul 3;388(6637):14.
Bibliometric analysis of the scientific productivity of the Italian Society of Nephrology for a period of five consecutive years (1990–1994). Schena FP, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2359–60
A bibliometric study of the trend in articles related epidemiology published in occupational health journals [letter] Sizaret A, et al. **Occup Environ Med** 1997 May; 54(5):357–8
Methodologic evaluation of the radiology cost-effectiveness literature [see comments] Blackmore CC, et al. **Radiology** 1997 Apr;203(1):87–91. Comment in: Radiology 1997 Apr;203(1):13–5.
[An analysis to the focus of (American Journal of Epidemiology) research with bibliometrics methods] Cui L. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):163–5 (Eng. Abstr.) **(Chi)**
[How to assess the value of scientific publications?] Hoeffel JC, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1661–5 (Eng. Abstr.) **(Fre)**
[The impact factor and the grantee (editorial)] Ploin PF, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1589–90 **(Fre)**
[Internationalization of the English-language journals in Japan in life sciences] Yamazaki S, et al. **Nippon Seirigaku Zasshi** 1997;59(2):98–104 (Eng. Abstr.) **(Jpn)**
[Heterogeneity in bibliographic references] de Almeida HL Jr, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):357–9 (Eng. Abstr.) **(Por)**
[Citation rates in the assessment of the scientific output of medical scientists as a model study method in scientometry] Uvarenko AR, et al. **Lik Sprava** 1997 Jan–Feb;(1):111–4 **(Rus)**
[A critical and bibliometric study of the review "Anales de la Real Academia Nacional de Medicina" 1974–1994] Velasco Martín A, et al. **An R Acad Nac Med (Madr)** 1996; 113(3):755–63 **(Spa)**
[Science and the university. Both need more attention] Krauskopf M, et al. **Arch Biol Med Exp (Santiago)** 1987; 20(3–4):283–94 (Eng. Abstr.) **(Spa)**
[Evolution of the bibliometric indicators of production and consumption of Archivos de Bronchopneumología in the last 20 years] García Río F, et al. **Arch Bronconeumol** 1997 Jan;33(1):20–6 (Eng. Abstr.) **(Spa)**
[What is the real international dissemination of Archivos de Bronconeumología? (letter)] García Río F, et al. **Arch Bronconeumol** 1996 Dec;32(10):551 **(Spa)**
[Bibliometric indicators of production and usage of Archivos de Bronchoneumologia] García Río F, et al. **Arch Bronconeumol** 1996 Aug–Sep;32(7):327–31 (Eng. Abstr.) **(Spa)**
[Bibliometric indicators of research in primary care (1988–1992) (see comments)] Alvarez Solar M, et al. **Aten Primaria** 1996 Sep 30;18(5):229–34, 236 (Eng. Abstr.) . Comment in: Aten Primaria 1997 Apr 15;19(6):331–2. **(Spa)**
[Mental health in primary care: a bibliometric study] Herrán A, et al. **Aten Primaria** 1996 Nov 30;18(9):502–6 (Eng. Abstr.) **(Spa)**
[The outlook for Spanish primary care starting with a bibliometric analysis of its scientific production (1971–1994)] Marset Campos P, et al. **Aten Primaria** 1997 May 15;19(8):389–94 (Eng. Abstr.) **(Spa)**
[Scientific production in primary care by autonomous communities (letter; comment)] Martínez Zapata JM, et al. **Aten Primaria** 1997 Apr 15;19(6):331–2. Comment on: Aten Primaria 1996 Sep 30;18(5):229–34, 236. **(Spa)**
[Cysticercosis. Scientific productivity measured analyzing the published literature between 1965 and 1995 (letter)] Ibarra Pérez C. **Gac Med Mex** 1996 May–Jun;132(3):351–2; discussion 352–4 **(Spa)**
[Cysticercosis. Scientific productivity measured analyzing the published literature between 1965 and 1995 (letter)] Márquez Monter H. **Gac Med Mex** 1996 May–Jun; 132(3):352; discussion 353–4 **(Spa)**
[Cysticercosis. Scientific productivity measured analyzing the published literature between 1965 and 1995 (letter)] Quijano Pitman F. **Gac Med Mex** 1996 May–Jun;132(3):351; discussion 352–4 **(Spa)**
[Indicators of scientific activity] López Piñero JM. **Microbiologia** 1996 Sep;12(3):469–72 **(Spa)**
[The impact factor of the Revista de Investigación Clínica (editorial; comment)] Loria A, et al. **Rev Invest Clin** 1995 Nov–Dec;47(6):427–31. Comment on: Rev Invest Clin 1995 Nov–Dec;47(6):507–8. **(Spa)**
[More on Mexican medical journals (letter; comment) (see comments)] Méndez-Sánchez N, et al. **Rev Invest Clin** 1995 Nov–Dec;47(6):507–8. Comment on: Rev Invest Clin 1995 Mar–Apr;47(2):89–93. Comment on: Rev Invest Clin 1995 Mar–Apr;47(2):165–7. Comment in: Rev Invest Clin 1995 Nov–Dec;47(6):427–31. **(Spa)**
[Bibliometric evaluation of the Spanish scientific output in neurosciences. Analysis of the publication with international readership between 1984 and 1993] López-Muñoz F, et al. **Rev Neurol** 1996 Apr; 24(128):417–26 (Eng. Abstr.) **(Spa)**

BIBLIOTHERAPY

Recommended books for helping children deal with separation and divorce. Pardeck JT. **Adolescence** 1996 Spring;31(121):233–7
Bibliotherapy in unipolar depression: a meta-analysis. Cuijpers P. **J Behav Ther Exp Psychiatry** 1997 Jun; 28(2):139–47
Negative outcomes: what is the evidence on self-administered treatments? Scogin F, et al. **J Consult Clin Psychol** 1996 Oct;64(5):1086–9

STANDARDS

Three-year follow-up of bibliotherapy for depression. Smith NM, et al. **J Consult Clin Psychol** 1997 Apr;65(2):324–7

BICARBONATE IONS see **BICARBONATES**

BICARBONATES

Treatment of acute methanol intoxication with hemodialysis using an ethanol-enriched, bicarbonate-based dialysate. Chow MT, et al. **Am J Kidney Dis** 1997 Oct;30(4):568–70
Fluid kinetics in CAPD patients during dialysis with a bicarbonate-based hypoosmolar solution. Struijk DG, et al. **Blood Purif** 1996;14(3):217–26
A randomized controlled trial of a bicarbonate- and a bicarbonate/lactate-containing dialysis solution in CAPD [see comments] Coles GA, et al. **Perit Dial Int** 1997 Jan–Feb;17(1):48–51. Comment in: Perit Dial Int 1997 Jan–Feb;17(1):9–10.
Clinical experience with a 39 mmol/L bicarbonate-buffered peritoneal dialysis solution [see comments] Feriani M, et al. **Perit Dial Int** 1997 Jan–Feb;17(1):17–21. Comment in: Perit Dial Int 1997 Jan–Feb;17(1):9–10.
Bicarbonate-buffered CAPD solutions: from clinical trials to clinical practice. Feriani M. **Perit Dial Int** 1997;17 Suppl 2:S51–5 (30 ref.)
Peritoneal dialysis solution biocompatibility: inhibitory mechanisms and recent studies with bicarbonate-buffered solutions. Jörres A, et al. **Perit Dial Int** 1997;17 Suppl 2:S42–6 (53 ref.)
In vitro biocompatibility of bicarbonate-based peritoneal dialysis solutions. Topley N. **Perit Dial Int** 1997 Jan–Feb; 17(1):42–7 (45 ref.)

ADMINISTRATION & DOSAGE

Peritoneal functional changes induced by dialysate containing bicarbonate instead of lactate. Selgas R, et al. **Adv Perit Dial** 1996;12:49–52
Effects of mineral composition of drinking water on risk for stone formation and bone metabolism in idiopathic calcium nephrolithiasis. Marangella M, et al. **Clin Sci (Colch)** 1996 Sep;91(3):313–8
Bicarbonate loading in the thoroughbred: dose, method of administration and acid–base changes. Greenhaff PL, et al. **Equine Vet J Suppl** 1990 Jun;(9):83–5
Comparison of lactate and bicarbonate buffered haemofiltration fluids: use in critically ill patients. Thomas AN, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1212–7
Combined effect of bicarbonate and insulin with glucose in acute therapy of hyperkalemia in end-stage renal disease patients. Kim HJ. **Nephron** 1996;72(3):476–82
Intraocular irrigating solutions [letter; comment] Peyman GA. **Ophthalmology** 1995 Oct;102(10):1413–4. Comment on: Ophthalmology 1995 Feb;102(2):291–6.

ADVERSE EFFECTS

Alkalinization is troublesome in advanced cancer patients with dyspnea [letter; comment] Mercadante S. **J Pain Symptom Manage** 1997 Jun;13(6):316–8. Comment

on: J Pain Symptom Manage 1996 Jul;12(1):11–7.
Population analysis of mesothelium in situ and in vivo exposed to bicarbonate–buffered peritoneal dialysis fluid. Gotloib L, et al. **Nephron** 1996;73(2):219–27

ANTAGONISTS & INHIBITORS

Insulin inhibits secretin–stimulated pancreatic bicarbonate output by a dose–dependent neurally mediated mechanism. Berry SM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G163–70

BLOOD

Impact of acidosis on nutritional status in chronic peritoneal dialysis patients. Dumler F, et al. **Adv Perit Dial** 1996; 12:307–10
The magnitude of metabolic acidosis is dependent on differences in bicarbonate assays [see comments] Bray SH, et al. **Am J Kidney Dis** 1996 Nov;28(5):700–3. Comment in: Am J Kidney Dis 1997 Jun;29(6):983–4.
Serum bicarbonate is an independent determinant of protein catabolic rate in chronic hemodialysis. Bastani B, et al. **Am J Nephrol** 1996;16(5):382–5
Observations on the relationships between plasma free fatty acids, ketones and bicarbonate in acute hyperglycaemia. Davidson DF. **Ann Clin Biochem** 1997 May;34 (Pt 3):303–10
Metabolic acidosis in hemodialysis patients: a study of prevalence and factors affecting intradialytic bicarbonate gain. Sepandj F, et al. **Artif Organs** 1996 Sep;20(9):976–80
Serum 13C–bicarbonate assay for the diagnosis of gastric Helicobacter pylori infection and response to treatment. Kim MJ, et al. **Gastroenterology** 1997 Jul;113(1):31–7
Prescription and surveillance of the acetate–free biofiltration sessions: the bicarbonate cycle. Pacitti A, et al. **Int J Artif Organs** 1995 Nov;18(11):722–5
Umbilical artery blood gases in healthy term newborn infants. Dudenhausen JW, et al. **Int J Gynaecol Obstet** 1997 Jun; 57(3):251–8
Lactate–bicarbonate interrelationship during exercise and recovery in lean and obese Zucker rats. Ardévol A, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):333–9
Secretin–induced plasma bicarbonate decrease as a simple indicator of exocrine pancreatic function. Wettstein M, et al. **Pancreas** 1996 Aug;13(2):193–7
Mass methanol poisoning: a clinico–biochemical analysis of 10 cases. Teo SK, et al. **Singapore Med J** 1996 Oct; 37(5):485–7
Potential role of endothelial carbonic anhydrase in dehydration of plasma bicarbonate. Klocke RA. **Trans Am Clin Climatol Assoc** 1996;108:44–57; discussion 57–8

CHEMISTRY

Dental fluorosis and the use of a high fluoride–containing trona tenderizer (magadi). Mabelya L, et al. **Community Dent Oral Epidemiol** 1997 Apr;25(2):170–6
Is introduction of the bicarbonate buffer in PD solution unavoidable? [editorial; comment] Jörres A. **Perit Dial Int** 1996 Sep–Oct;16(5):444–5. Comment on: Perit Dial Int 1996 Sep–Oct;16(5):511–8.

DIAGNOSTIC USE

Recovery of 13CO2 and 14CO2 in human bicarbonate studies: a critical review with original data. Leijssen DP, et al. **Clin Sci (Colch)** 1996 Dec;91(6):665–77

METABOLISM

VIP–antiserum and indomethacin inhibit calcium and bicarbonate secretion by the inflamed feline gallbladder mucosa. Nilsson B, et al. **Acta Physiol Scand** 1996 Oct; 158(2):203–9
Intracellular acidosis potentiates carotid chemoreceptor responses to hypoxia in the absence of CO2–HCO3–. Iturriaga R. **Adv Exp Med Biol** 1996;410:211–6 (20 ref.)
Effect of luminal angiotensin II and ANP on early and late cortical distal tubule HCO3– reabsorption. Barreto–Chaves ML, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F977–84
Insulin inhibits secretin–stimulated pancreatic bicarbonate output by a dose–dependent neurally mediated mechanism. Berry SM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G163–70
Bicarbonate and CO2 transport across the skin of the leopard frog, Rana pipiens: effect of PGF2alpha. Candia OA, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R640–7
Recovery from NMDA–induced intracellular acidification is delayed and dependent on extracellular bicarbonate. Canzoniero LM, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C593–9
Calcitonin activates an Na(+)–independent HCO3(–)–dependent pathway in the rabbit distal convoluted tubule. Dagher G, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F97–103
Mechanisms behind changes in gastric acid and bicarbonate outputs during the human interdigestive motility cycle. Dalenbäck J, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G113–22
CFTR mediates cAMP– and Ca2+–activated duodenal epithelial HCO3– secretion. Hogan DL, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G872–8
cAMP and genistein stimulate HCO3– conductance through CFTR in human airway epithelia. Illek B, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L752–61
Beta 2–adrenergic receptors enhance contractility by stimulating HCO3(–)–dependent intracellular alkalinization. Jiang T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H1044–7
ANG II prolongs splanchnic nerve–mediated inhibition of duodenal mucosal alkaline secretion in the rat. Johansson B, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R942–6
Intracerebral adrenoceptor agonists influence rat duodenal mucosal bicarbonate secretion. Larson GM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G831–40
ANG II–dependent HCO3– reabsorption in surviving rat distal tubules: expression/activation of H(+)–ATPase. Levine DZ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F799–808
Most basal I(SC) in Calu–3 human airway cells is bicarbonate–dependent Cl– secretion. Singh M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L690–8
PACAPs stimulate duodenal bicarbonate secretion at PACAP receptors in the rat. Takeuchi K, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G646–53
An electroneutral anion exchange mechanism is present in brush–border membranes isolated from eel kidney. Vilella S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1143–8
Nitric oxide regulates HCO3– and Na+ transport by a cGMP–mediated mechanism in the kidney proximal tubule. Wang T. **Am J Physiol** 1997 Feb;272(2 Pt 2):F242–8
Reduced bicarbonate secretion mediates increased distal tubule acidification induced by dietary acid. Wesson DE. **Am J Physiol** 1996 Sep;271(3 Pt 2):F670–8
Prostacyclin increases distal tubule HCO3 secretion in the rat. Wesson DE. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1183–92
Bicarbonate/chloride exchange and intracellular pH throughout preimplantation mouse embryo development. Zhao Y, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1512–20
Peroxynitrite reaction with carbon dioxide/bicarbonate: kinetics and influence on peroxynitrite–mediated oxidations. Denicola A, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):49–58
Determination of Na+/Cl–, Na+/HCO3– and Na+/K+/2Cl– co–transporter activity in corneal endothelial cell plasma membrane vesicles. Lane JR, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):237–42
Video–imaging micro–fluorometric assessment of luminal chloride/bicarbonate exchange activity in Madin–Darby canine kidney cells: influence of cell density, 4,4'–diisothiocyano–2,2'–disulfonic stilbene and acetazolamide. Ebner S, et al. **Biol Chem Hoppe Seyler** 1996 May;377(5):275–81
Purine and pyrimidine nucleotide receptors in the apical membranes of equine cultured epithelia. Ko WH, et al. **Br J Pharmacol** 1997 May;121(1):150–6
CO interact with intracellular [H+] with and without CO2–HCO3– in the cat carotid chemosensory discharge. Osanai S, et al. **Brain Res** 1997 Aug 1;764(1–2):221–4
Interaction between Na ions and the Cl/HCO3 exchanger in basolateral membranes from rat jejunum. Orsenigo MN, et al. **Cell Biochem Funct** 1996 Mar;14(1):69–73
Does the administration of carbicarb lead acutely to back–titration of non–bicarbonate buffers? Kamel KS. **Clin Nephrol** 1996 Aug;46(2):112–6
Increased gastric bicarbonate secretion in portal hypertensive anesthetized rats: role of prostaglandins and nitric oxide. Lamarque D, et al. **Dig Dis Sci** 1997 Apr;42(4):743–50
A novel system to measure labelled CO2 and HCO3– fluxes across epithelia: corneal epithelium as model tissue. Candia OA. **Exp Eye Res** 1996 Aug;63(2):137–49
Evidence for independent Cl– and HCO3– secretion and involvement of an apical Na(+)–HCO3– cotransporter in cultured rat epididymal epithelia. Chan HC, et al. **Exp Physiol** 1996 May;81(3):515–24
Transport of sodium across the isolated bovine rumen epithelium: interaction with short–chain fatty acids, chloride and bicarbonate. Sehested J, et al. **Exp Physiol** 1996 Jan;81(1):79–94
Cruising the villus–to–crypt axis: the role of cyclic 3',5'–guanosine monophosphate in duodenal bicarbonate secretion [editorial; comment] Field M. **Gastroenterology** 1996 Dec;111(6):1760–3. Comment on: Gastroenterology 1996 Dec;111(6):1558–68.
Guanylin strongly stimulates rat duodenal HCO3– secretion: proposed mechanism and comparison with other secretagogues [see comments] Guba M, et al. **Gastroenterology** 1996 Dec;111(6):1558–68. Comment in: Gastroenterology 1996 Dec;111(6):1760–3.
Acid–stimulated duodenal bicarbonate secretion involves a CFTR–mediated transport pathway in mice. Hogan DL, et al. **Gastroenterology** 1997 Aug;113(2):533–41
Alterations in duodenal bicarbonate secretion and mucosal susceptibility to acid in diabetic rats. Takehara K, et al. **Gastroenterology** 1997 Feb;112(2):418–28
Neuropeptide Y in the dorsal vagal complex stimulates bicarbonate–dependent bile secretion in rats. Yoneda M, et al. **Gastroenterology** 1997 May;112(5):1673–80
Human oesophageal bicarbonate secretion: a phenomenon waiting for a role [see comments] Brown CM, et al. **Gut** 1997 May;40(5):693–4. Comment in: Gut 1997 May;40(5):582–6.
Reappraisal of bicarbonate secretion by the human oesophagus [see comments] Mertz–Nielsen A, et al. **Gut** 1997 May;40(5):582–6. Comment in: Gut 1997 May;40(5):693–4.
Decreased anion exchanger 2 immunoreactivity in the liver of patients with primary biliary cirrhosis. Medina JF, et al. **Hepatology** 1997 Jan;25(1):12–7
Na(+)–dependent and –independent Cl–/HCO–3 exchange mediate cellular HCO3– transport in cultured human intrahepatic bile duct cells. Strazzabosco M, et al. **Hepatology** 1997 Apr;25(4):976–85
Endotoxin impairs biliary glutathione and HCO3– excretion and blocks the choleretic effect of nitric oxide in rat liver. Trauner M, et al. **Hepatology** 1997 May;25(5):1184–91
Bicarbonate–dependent proton extrusion in Chinese hamster ovary (CHO) cells adapted to growth at pH 6.7. Coss RA, et al. **Int J Hyperthermia** 1997 May–Jun;13(3):325–36
Stimulatory effect of (R) alpha–methylhistamine on duodenal HCO3– secretion in anaesthetized rats. Coruzzi G, et al. **Ital J Gastroenterol** 1996 Dec;28(9):520–2
Correcting acidosis in hemodialysis: effect on phosphate clearance and calcification risk. Harris DC, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1607–12
Sympathetic and VIP–ergic control of calcium and bicarbonate transport in the feline gall bladder mucosa in vivo. Nilsson B, et al. **J Auton Nerv Syst** 1996 Aug 27; 60(1–2):49–55
Reconstituted Cl– pump protein: a novel ion(Cl–)–motive ATPase. Gerencser GA, et al. **J Bioenerg Biomembr** 1996 Dec;28(6):459–69
Endogenous endothelins mediate increased distal tubule acidification induced by dietary acid in rats. Wesson DE. **J Clin Invest** 1997 May 1;99(9):2203–11
The renal electrogenic Na+:HCO–3 cotransporter. Boron VF, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):263–8 (24 ref.)
Changes in gastric HCO–3 secretory response to NG–nitro–L–arginine methyl ester in rats following repeated administration. Takeuchi K, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1164–70
Inhibition of biliary bicarbonate secretion in ethinyl estradiol–induced cholestasis is not associated with impaired activity of the Cl–/HCO–3 exchanger in the rat. Alvaro D, et al. **J Hepatol** 1997 Jan;26(1):146–57
Renal cortical basolateral Na+/HCO3– cotransporter: IV. Characterization and localization with polyclonal antibodies. Bernardo AA, et al. **J Membr Biol** 1996 Nov; 154(2):155–62
Angiotensin II receptor type I–regulated anion secretion in cystic fibrosis pancreatic duct cells. Chan HC, et al. **J Membr Biol** 1997 Apr 1;156(3):241–9
A bicarbonate– and weak acid–permeable chloride conductance controlled by cytosolic Ca2+ and ATP in rat submandibular acinar cells. Ishikawa T. **J Membr Biol** 1996 Sep;153(2):147–59
Chloride–hydroxyl exchange in the guinea–pig ventricular myocyte: no role for bicarbonate. Hun Leem C, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2483–9
Long–lasting GABA–mediated depolarization evoked by high–frequency stimulation in pyramidal neurons of rat hippocampal slice is attributable to a network–driven, bicarbonate–dependent K+ transient. Kaila K, et al. **J Neurosci** 1997 Oct 15;17(20):7662–72
Intracellular pH regulation in cultured microg'ial cells from mouse brain. Faff L, et al. **J Neurosci Res** 1996 Nov 1; 46(3):294–304
Is resting state HCO3– secretion in frog gastric fundus mucosa mediated by apical Cl(–)–HCO3– exchange? Caroppo R, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):763–71
Bicarbonate secretion in interlobular ducts from guinea–pig pancreas. Ishiguro H, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):179–91
Bicarbonate transport in sheep parotid secretory cells. Steward MC, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):819–30
Regulation of the renal Na–HCO3 cotransporter: V. mechanism of the inhibitory effect of parathyroid hormone. Ruiz OS, et al. **Kidney Int** 1996 Feb;49(2):396–402
Regulation of the renal Na–HCO3 cotransporter: VII. Mechanism of the cholinergic stimulation. Ruiz OS, et al. **Kidney Int** 1997 Apr;51(4):1069–77
On the mechanism of bicarbonate exit from renal proximal tubular cells. Seki G, et al. **Kidney Int** 1996 Jun; 49(6):1671–7 (22 ref.)
Functional identity of a purified proximal tubule anion exchanger protein: mediation of chloride/formate and chloride/bicarbonate exchange. Soleimani M, et al. **Kidney Int** 1996 Dec;50(6):1914–21
Buffers: bicarbonate, lactate and pyruvate. Feriani M. **Kidney Int Suppl** 1996 Nov;56:S75–80 (61 ref.)
Failure of the nitric oxide synthase inhibitor to stimulate duodenal bicarbonate secretion in streptozotocin–diabetic rats. Takehara K, et al. **Life Sci** 1997;60(17):1505–14
Changes in the redox potential and catalase activity of Mn2+ ions during formation of Mn–bicarbonate complexes. Kozlov YuN, et al. **Membr Cell Biol** 1997;11(1):115–20
Expression cloning and characterization of a renal electrogenic Na+/HCO3– cotransporter. Romero MF, et al. **Nature** 1997 May 22;387(6631):409–13
Changes in the countercurrent system in the renal papilla: diuresis increases pH and HCO3– gradients between collecting duct and vasa recta. Kuramochi G, et al. **Pflugers Arch** 1996 Oct;432(6):1062–8
Ochratoxin A disturbs pH homeostasis in the kidney:

increases in pH and HCO3- in the tubules and vasa recta. Kuramochi G, et al. **Pflugers Arch** 1997 Aug;434(4):392-7

Role of protein kinase C in duodenal mucosal bicarbonate secretion in the guinea pig. Odes HS, et al. **Pharmacology** 1996 Jul;53(1):60-5

Bicarbonate secretion in the guinea pig duodenum: functional characterization of peptide hormone receptors in duodenal enterocytes. Reimer R, et al. **Pharmacology** 1996 Jun; 52(6):339-46

Modeling of the D1/D2 proteins and cofactors of the photosystem II reaction center: implications for herbicide and bicarbonate binding. Xiong J, et al. **Protein Sci** 1996 Oct;5(10):2054-73

Importance of gastrin-releasing peptide on acid-induced secretin release and pancreaticobiliary and duodenal bicarbonate secretion. Glad H, et al. **Scand J Gastroenterol** 1996 Oct;31(10):993-1000

Controversial aspects in the pathophysiology of duodenal ulcer [letter; comment] Guslandi M. **Scand J Gastroenterol** 1996 Aug;31(8):831-2. Comment on: Scand J Gastroenterol 1996 Jan;31(1):38-43. Comment on: Scand J Gastroenterol 1996 Jan;31(1):44-8.

Gastric bicarbonate secretion and release of prostaglandin E2 are increased in duodenal ulcer patients but not in Helicobacter pylori-positive healthy subjects [see comments] Mertz-Nielsen A, et al. **Scand J Gastroenterol** 1996 Jan;31(1):38-43. Comment in: Scand J Gastroenterol 1996 Aug;31(8):831-2.

Peptic ulcer pathophysiology: acid, bicarbonate, and mucosal function. Højgaard L, et al. **Scand J Gastroenterol Suppl** 1996;216:10-5 (62 ref.)

[Gastroduodenal bicarbonate secretion: pharmacological modulation and contribution to mucosal protection] Takeuchi K. **Nippon Yakurigaku Zasshi** 1996 Dec; 108(6):281-93 (50 ref.) (Eng. Abstr.) **(Jpn)**

[A method for the continuous quantitative estimation of acid and bicarbonate secretion in the stomach of narcotized rats] Zolotarev VA, et al. **Fiziol Zh Im I M Sechenova** 1996 Jul;82(7):111-6 **(Rus)**

[Mucus and bicarbonate secretion in the gastric mucosal barrier] Arroyo Villarino MT, et al. **Gastroenterol Hepatol** 1997 May;20 Suppl 2:4-11 (51 ref.) **(Spa)**

PHARMACOKINETICS

Regulation of HCO3- absorption by prostaglandin E2 and G proteins in rat medullary thick ascending limb. Good DW, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F711-7

Kinetics of bicarbonate transport in human red blood cell membranes at body temperature. Gasbjerg PK, et al. **J Gen Physiol** 1996 Dec;108(6):565-75

PHARMACOLOGY

Catecholamine secretion from glomus cells is dependent on extracellular bicarbonate. Panisello JM, et al. **Adv Exp Med Biol** 1996;410:267-73

Effects of bicarbonate dialysis solution on peritoneal transport in rats. Suzuki K, et al. **Adv Perit Dial** 1996; 12:24-6

Calciuric effects of protein and potassium bicarbonate but not of sodium chloride or phosphate can be detected acutely in adult women and men. Whiting SJ, et al. **Am J Clin Nutr** 1997 May;65(5):1465-72

Osmotic agents and buffers in peritoneal dialysis solution: monocyte cytokine release and in vitro cytotoxicity. Plum J, et al. **Am J Kidney Dis** 1997 Sep;30(3):413-22

Effects of hydrogen and bicarbonate ions on endocrine cells in fetal rat lung organ cultures. Ebina M, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L178-86

Effects of extracellular pH, PCO2, and HCO3- on intracellular pH in isolated rat taste buds. Lyall V, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C1008-19

Continuous measurement of 13C16O2 production from [13C]pyruvate by intact liver mitochondria: effect of HCO3-. Ono Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C98-106

Mechanism of the acceleration of CO2 production from pyruvate in liver mitochondria by HCO3-. Taguchi Y, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C92-100

HCO3(-)-dependent conformational change in gastric parietal cell AE2, a glycoprotein naturally lacking sialic acid. Zolotarev AS, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G311-21

Modulation of chloride secretion in the rat ileum by intracellular bicarbonate. Dagher PC, et al. **Comp Biochem Physiol A Physiol** 1997 May;117(1):89-97

Effect of intraocular irrigating solutions on the viability of cultured retinal vascular endothelial cells. Mourad KM, et al. **Curr Eye Res** 1997 Mar;16(3):239-43

Effects of the medium HCO3-/CO2 buffer system on differentiation and intermediary metabolism properties of rabbit proximal tubule cells in primary culture. Monteil C, et al. **Epithelial Cell Biol** 1995;4(3):131-9

Bicarbonate loading in the thoroughbred: dose, method of administration and acid-base changes. Greenhaff PL, et al. **Equine Vet J Suppl** 1990 Jun;(9):83-5

On the role of bicarbonate as a hydrogen ion buffer in rat CNS neurones. Amos BJ, et al. **Exp Physiol** 1996 Jul; 81(4):623-32

Bicarbonate/CO2 induces rapid activation of phospholipase A2 and renders boar spermatozoa capable of undergoing acrosomal exocytosis in response to progesterone. Roldan ER, et al. **FEBS Lett** 1996 Nov 4;396(2-3):227-32

Effects of carbon dioxide/bicarbonate on induction of DNA single-strand breaks and formation of 8-nitroguanine, 8-oxoguanine and base-propenal mediated by peroxynitrite. Yermilov V, et al. **FEBS Lett** 1996 Dec 9; 399(1-2):67-70

Intestinal transport of water, sodium & glucose from an electrolyte solution with & without bicarbonate. Islam S, et al. **Indian J Med Res** 1996 Oct;104:254-6

In-vitro initiation of forward motility in testicular spermatozoa. Jaiswal BS, et al. **Int J Androl** 1996 Apr; 19(2):97-102

Effects of a pH 7.4, lactate-based and a pH 7.4, bicarbonate-based peritoneal dialysis solutions on neutrophil superoxide generation. Ing TS, et al. **Int J Artif Organs** 1996 Dec;19(12):700-3

Influence of acetate and bicarbonate hemodialysis on the plasma erythropoietin concentration in patients with chronic renal failure. Więcek A, et al. **Int J Artif Organs** 1997 Feb;20(2):108-11

Bicarbonate inhibits N-nitrosation in oxygenated nitric oxide solutions. Caulfield JL, et al. **J Biol Chem** 1996 Oct 18; 271(42):25859-63

Lactational response of cows to different concentrations of calcium salts of canola oil fatty acids with or without bicarbonates. Chouinard PY, et al. **J Dairy Sci** 1997 Jun; 80(6):1185-93

Ionic basis of the postsynaptic depolarizing GABA response in hippocampal pyramidal cells. Perkins KL, et al. **J Neurophysiol** 1996 Dec;76(6):3886-94

Bicarbonate/CO2, an effector of capacitation, induces a rapid and reversible change in the lipid architecture of boar sperm plasma membranes. Harrison RA, et al. **Mol Reprod Dev** 1996 Nov;45(3):378-91

Bicarbonate-sensitive cysteine induced elevation of extracellular aspartate and glutamate in rat hippocampus in vitro. Abbas AK, et al. **Neurochem Int** 1997 Mar; 30(3):253-9

Influence of alkaline buffers on cytoplasmic pH in myocardial cells exposed to hypoxia. Li YC, et al. **Resuscitation** 1997 Feb;34(1):71-7

Transport of propionate across the distal colonic epithelium of guinea pig in the presence and absence of bicarbonate and of chloride. von Engelhardt W, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):73-8

[Motility of the gastric antrum and the gallbladder following oral administration of sulfate-bicarbonate] Grossi F, et al. **Clin Ter** 1996 Jun;147(6):321-6 (Eng. Abstr.) **(Ita)**

[The levels of adenine nucleotides and hypoxanthine in blood of patients on long-term hemodialysis using dialysis fluid containing acetate or bicarbonate] Bułło B, et al. **Przegl Lek** 1997;54(1):3-5 (Eng. Abstr.) **(Pol)**

THERAPEUTIC USE

How to achieve optimal correction of acidosis in end-stage renal failure patients. Zucchelli P, et al. **Blood Purif** 1995 Nov-Dec;13(6):375-84 (34 ref.)

Potassium bicarbonate reduces urinary nitrogen excretion in postmenopausal women. Frassetto L, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):254-9

In vivo and in vitro effects of amino-acid-based and bicarbonate-buffered peritoneal dialysis solutions with regard to peritoneal transport and cytokines/prostanoids dialysate concentrations. Plum J, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1652-60

Bicarbonate versus lactate buffer in peritoneal dialysis solutions: the beneficial effect on RBC metabolism [see comments] Buoncristiani U, et al. **Perit Dial Int** 1996 Sep-Oct;16(5):511-8. Comment in: Perit Dial Int 1996 Sep-Oct;16(5):444-5.

Changes in the quality of life of patients with end-stage renal disease treated with high-efficiency bicarbonate hemodialysis in Mexico. De Icaza E, et al. **Ren Fail** 1997 Jan;19(1):99-110

[Use of hydrocarbonate-containing salt mixtures in the correction of deadaptation processes] Verbitskii ON, et al. **Fiziol Cheloveka** 1996 Jan-Feb;22(1):116-22 **(Rus)**

TOXICITY

Tolerance of the nematode Caenorhabditis elegans to pH, salinity, and hardness in aquatic media. Khanna N, et al. **Arch Environ Contam Toxicol** 1997 Jan;32(1):110-4

BICUCULLINE

Sex differences in bicuculline-induced convulsions: interaction with stress and ligands of benzodiazepine binding sites. Perićić D, et al. **Brain Res** 1997 Mar 28; 752(1-2):279-84

Local perfusion of diazepam attenuates interictal and ictal events in the bicuculline model of epilepsy in rats. Eder HG, et al. **Epilepsia** 1997 May;38(5):516-21

Long-term treatment with some methylxanthines decreases the susceptibility to bicuculline- and pentylenetetrazol-induced seizures in mice. Relationship to c-fos expression and receptor binding. Johansson B, et al. **Eur J Neurosci** 1996 Dec;8(12):2447-58

Previous heat shock treatment attenuates bicuculline-induced convulsions in rats. Yang RC, et al. **Exp Brain Res** 1996 Feb;108(1):18-22

ADMINISTRATION & DOSAGE

Bicuculline administered into the amygdala after training blocks benzodiazepine-induced amnesia. Dickinson-Anson H, et al. **Brain Res** 1997 Mar 28;752(1-2):197-202

[The effect of multiple administrations of GABA and bicuculline into the rat neostriatum on the realization of a food-acquisition habit] Iakimovskii AF. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):521-6 (Eng. Abstr.) **(Rus)**

ANALOGS & DERIVATIVES

The role of amygdala and hypothalamus in GABAA antagonist bicuculline-induced cardiovascular responses in conscious rats. Gören Z, et al. **Brain Res** 1996 May 25; 722(1-2):118-24

N-methyl-D-aspartate enhancement of phasic responses in primate neocortex. Schroeder CE, et al. **Exp Brain Res** 1997 Apr;114(2):271-8

Mechanisms underlying orientation selectivity of neurons in the primary visual cortex of the macaque. Sato H, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):757-71

Bicuculline infusion advances the timing of Fos expression in LHRH neurons in the preoptic area of proestrous rats. Funabashi T, et al. **Neuroreport** 1997 Feb 10;8(3):771-4

Bicuculline methiodide potentiates NMDA-dependent burst firing in rat dopamine neurons by blocking apamin-sensitive Ca2+-activated K+ currents. Johnson SW, et al. **Neurosci Lett** 1997 Aug 1;231(1):13-6

ANTAGONISTS & INHIBITORS

Bicuculline-induced circling from the rat superior colliculus is blocked by GABA microinjection into the deep cerebellar nuclei. Speller JM, et al. **Exp Brain Res** 1996 Aug;110(3):425-34

PHARMACOLOGY

Roles of GABAergic inhibition for the binaural processing of multiple sound sources in the inferior colliculus. Pollak GD. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:44-54

Bicuculline microinjections into the ventral tegmental area of the rat: alteration of self-stimulation thresholds and of cytochrome oxidase activity in the brain. Sandner G, et al. **Behav Brain Res** 1996 Sep;79(1-2):145-51

Modulatory role of catecholamines in the transsynaptic expression of c-fos in the rat medial prefrontal cortex induced by disinhibition of the mediodorsal thalamus: a study employing microdialysis and immunohistochemistry. Bubser M, et al. **Brain Res** 1997 Feb 28;749(2):214-25

Involvement of GABAB receptor systems in experimental depression: baclofen but not bicuculline exacerbates helplessness in rats. Nakagawa Y, et al. **Brain Res** 1996 Nov 25;741(1-2):240-5

Involvement of GABA(B) receptor systems in action of antidepressants: baclofen but not bicuculline attenuates the effects of antidepressants on the forced swim test in rats. Nakagawa Y, et al. **Brain Res** 1996 Feb 19;709(2):215-20

Effects of GABA and glycine receptor antagonists on the activity and PAG-induced inhibition of rat dorsal horn neurons. Peng YB, et al. **Brain Res** 1996 Oct 14; 736(1-2):189-201

The effects of verapamil and flunarizine on epileptiform activity induced by bicuculline and low Mg2+ in neocortical tissue of epileptic and primary non-epileptic patients. Straub H, et al. **Brain Res** 1996 Sep 16; 733(2):307-11

Influence of gender and gonadectomy on bicuculline-induced convulsions and on GABAA receptors. Bujas M, et al. **Brain Res Bull** 1997;43(4):411-6

Epileptiform activity in the piriform cortex of the in vitro isolated guinea pig brain preparation. de Curtis M, et al. **Epilepsy Res** 1996 Dec;26(1):75-80

Persistent excitability changes in the piriform cortex of the isolated guinea-pig brain after transient exposure to bicuculline. Forti M, et al. **Eur J Neurosci** 1997 Mar; 9(3):435-51

Zinc modulation of bicuculline-sensitive and -insensitive GABA receptors in the developing rat hippocampus. Martina M, et al. **Eur J Neurosci** 1996 Oct;8(10):2168-76

Bicuculline induces ictal seizures in the intact hippocampus recorded in vitro. Khalilov I, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):R5-6

The differential antagonism by bicuculline and SR95531 of pentobarbitone-induced currents in cultured hippocampal neurons. Uchida I, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):89-96

Effect of brain acetylcholine depletion on bicuculline-induced cardiovascular and locomotor responses. Tellioğlu T, et al. **Int J Neurosci** 1997 Feb; 89(3-4):143-52

Bicuculline increases and muscimol reduces the phase-delaying effects of light and VIP/PHI/GRP in the suprachiasmatic region. Gillespie CF, et al. **J Biol Rhythms** 1996 Jun;11(2):137-44

Pharmacological block of the electrogenic sodium pump disrupts rhythmic bursting induced by strychnine and bicuculline in the neonatal rat spinal cord. Ballerini L, et al. **J Neurophysiol** 1997 Jan;77(1):17-23

Application of the GABA antagonist bicuculline to the premotor cortex reduces the ability to withhold reaching movements by well-trained monkeys in visually guided

reaching task. Sawaguchi T, et al. **J Neurophysiol** 1996 May;75(5):2150–6
Localization of rhythmogenic networks responsible for spontaneous bursts induced by strychnine and bicuculline in the rat isolated spinal cord. Bracci E, et al. **J Neurosci** 1996 Nov 1;16(21):7063–76
GABA(A) antagonist and nicotine–induced antinociception. Mui WC, et al. **Life Sci** 1997;61(15):PL 221–5
Bicuculline administration into basolateral amygdala facilitates trace conditioning of odor aversion in the rat. Ferry B, et al. **Neurobiol Learn Mem** 1997 Jan;67(1):80–3
Regional differences in NaCl–induced increase of the potency of bicuculline to displace [3H]muscimol binding. Bujas M, et al. **Neurochem Int** 1997 Feb;30(2):199–202
A functional comparison of the antagonists bicuculline and picrotoxin at recombinant GABAA receptors. Krishek BJ, et al. **Neuropharmacology** 1996;35(9–10):1289–98
Cardiorespiratory response to bicuculline during resistive loaded breathing in anesthetized rabbits. Delpierre S, et al. **Neurosci Lett** 1996 Jul 26;213(1):13–6
GABA(A) receptor activation triggers a Cl– conductance increase and a K+ channel blockade in cerebellar granule cells. Labrakakis C, et al. **Neuroscience** 1997 Jul; 79(1):177–89
Long–term potentiation induced by single volley activation: a mechanism for bicuculline–induced enhancement of synaptic field potentials in the CA1 hippocampal region. Pananceau M, et al. **Neuroscience** 1997 Jul;79(1):95–101
Endogenous opioids acting at a medullary mu–opioid receptor contribute to the behavioral antinociception produced by GABA antagonism in the midbrain periaqueductal gray. Roychowdhury SM, et al. **Neuroscience** 1996 Oct;74(3):863–72
Effect of GABA(B) receptors on synaptic interactions in dentate gyrus granule neurons of the rat. Wang S, et al. **Neuroscience** 1997 Jul;79(1):117–27
Passive avoidance learning in the day–old chick is modulated by GABAergic agents. Clements MP, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):629–34
Self–administration of the GABAA antagonist bicuculline into the ventral tegmental area in mice: dependence on D2 dopaminergic mechanisms. David V, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):85–90
Correlation between a bicuculline–resistant response to GABA and GABAA receptor rho 1 subunit expression in single rat retinal bipolar cells. Yeh HH, et al. **Vis Neurosci** 1996 Mar–Apr;13(2):283–92
[Evoked somatosensory potentials in the baboon: intracortical localization and nature studies using pharmacology and analysis of sources of current] el Kharroussi M, et al. **Neurophysiol Clin** 1996;26(3):143–57 (Eng. Abstr.) **(Fre)**
[Effect of muscimol on the delay in desensitization of GABA–receptor/Cl–-ionophor complex induced by picrotoxin and bicuculline] Rebrov IB, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):144–7 **(Rus)**

TOXICITY

Bicuculline–induced epileptiform activity in rat hippocampal slices: suppression by Aconitum alkaloids. Ameri A, et al. **Planta Med** 1997 Jun;63(3):228–32

BICUSPID

Effects of combined topical metronidazole and mechanical treatment on the subgingival flora in deep periodontal pockets in cuspids and bicuspids. Hitzig C, et al. **J Periodontol** 1997 Jul;68(7):613–7
Influence of different metal restorations bonded with resin on fracture resistance of endodontically treated maxillary premolars. Costa LC, et al. **J Prosthet Dent** 1997 Apr; 77(4):365–9

ABNORMALITIES

Dens evaginatus: a review. Uyeno DS, et al. **ASDC J Dent Child** 1996 Sep–Oct;63(5):328–32 (40 ref.)
Agenesis of mandibular second premolars. Spontaneous space closure after extraction therapy: a 4–year follow–up. Mamopoulou A, et al. **Eur J Orthod** 1996 Dec; 18(6):589–600

ANATOMY & HISTOLOGY

Technical note: Uto–Aztecan premolars in Ohio valley populations. Johnston CA, et al. **Am J Phys Anthropol** 1996 Jun;100(2):293–4
New Miocene fossil ape locality, Dangar, Hari–Talyangar region, Siwaliks, northern India. Patnaik R, et al. **J Hum Evol** 1997 Jan;32(1):93–7

CHEMISTRY

Fluoride content of the enamel and dentine of human premolars prior to and following the introduction of fluoridation in New Zealand. Cutress TW, et al. **Caries Res** 1996;30(3):204–12
Fluoride concentrations and distribution in premolars of children from low and optimal fluoride areas. Takeuchi K, et al. **Caries Res** 1996;30(1):76–82

GROWTH & DEVELOPMENT

Continuous overnight observation of human premolar eruption. Risinger RK, et al. **Arch Oral Biol** 1996 Aug–Sep; 41(8–9):779–89
The rhythms of human premolar eruption: a study using continuous observation. Risinger RK, et al. **J Am Dent Assoc** 1996 Oct;127(10):1515–21

INJURIES

What is your diagnosis? Bilateral fragmentation of the fourth maxillary premolar teeth attributable to impaction by adjacent teeth. Dunkerley SA, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1393–4
[Study on experimental cervical defect of human tooth by SEM] Wang J, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan;31(1):31–3 (Eng. Abstr.) **(Chi)**

METABOLISM

Elastic modulus of the periodontal ligament. Rees JS, et al. **Biomaterials** 1997 Jul;18(14):995–9

PHYSIOLOGY

High–resolution observations of human premolar eruption. Trentini CJ, et al. **Arch Oral Biol** 1996 Jan;41(1):63–8
The response of human premolars to cyclic loading. Catović A, et al. **J Oral Rehabil** 1997 Apr;24(4):320–4

RADIOGRAPHY

Dental caries on adjacent approximal tooth surfaces in relation to order of eruption. Edward S. **Acta Odontol Scand** 1997 Jan;55(1):27–30

SURGERY

The effect of premolar extractions on tooth–size discrepancy. Saatci P, et al. **Am J Orthod Dentofacial Orthop** 1997 Apr; 111(4):428–34
The effect of premolar extractions on the soft–tissue profile in adult African American females [published erratum appears in Angle Orthod 1997;67(3):240] Caplan MJ, et al. **Angle Orthod** 1997;67(2):129–36

TRANSPLANTATION

Premolar child–to–parent grafting within the framework of orthodontic serial extraction. Harzer W. **J Orofac Orthop** 1997;58(4):214–23 **(Eng, Ger)**

ULTRASTRUCTURE

[Study on experimental cervical defect of human tooth by SEM] Wang J, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan;31(1):31–3 (Eng. Abstr.) **(Chi)**

BICUSPID VALVE see **MITRAL VALVE**

BICYCLE ERGOMETRY TEST see **EXERCISE TEST**

BICYCLING

Regulation of muscle glycogen phosphorylase activity during intense aerobic cycling with elevated FFA. Dyck DJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E116–25
Children's bicycle helmet attitudes and use. Association with parental rules. The Pediatric Practice Research Group. Miller PA, et al. **Arch Pediatr Adolesc Med** 1996 Dec; 150(12):1259–64
Cycling offers important health benefits and should be encouraged [letter] Hillman M. **BMJ** 1997 Aug 23; 315(7106):490
Muscle activity adapts to anti–gravity posture during pedalling in persons with post–stroke hemiplegia. Brown DA, et al. **Brain** 1997 May;120 (Pt 5):825–37
Children and cycle helmets — the case against. McCarthy M. **Child Care Health Dev** 1996 Mar;22(2):105–11
Children and cycle helmets: the case for. Sibert JR. **Child Care Health Dev** 1996 Mar;22(2):99–103
Effects of active recovery on power output during repeated maximal sprint cycling. Bogdanis GC, et al. **Eur J Appl Physiol** 1996;74(5):461–9
Fuel kinetics during intense running and cycling when fed carbohydrate. Derman KD, et al. **Eur J Appl Physiol** 1996; 74(1–2):36–43
Increase in energy cost of running at the end of a triathlon. Guezennec CY, et al. **Eur J Appl Physiol** 1996;73(5):440–5
Optimal velocity for maximal power production in non–isokinetic cycling is related to muscle fibre type composition. Hautier CA, et al. **Eur J Appl Physiol** 1996; 74(1–2):114–8
Work and power outputs determined from pedalling and flywheel friction forces during brief maximal exertion on a cycle ergometer. Hibi N, et al. **Eur J Appl Physiol** 1996; 74(5):435–42
Use of the force–velocity test to determine the optimal braking force for a sprint exercise on a friction–loaded cycle ergometer. Linossier MT, et al. **Eur J Appl Physiol** 1996;74(5):420–7
Validity of a velodrome test for competitive road cyclists. Padilla S, et al. **Eur J Appl Physiol** 1996;73(5):446–51
Sensation of breathlessness and respiratory oxygen cost during cycle exercise with and without conscious entrainment of the breathing rhythm. Takano N, et al. **Eur J Appl Physiol** 1997;76(3):209–13
Skeletal muscle buffering capacity and endurance performance after high–intensity interval training by well–trained cyclists. Weston AR, et al. **Eur J Appl Physiol** 1997;75(1):7–13
Accidental strangulation in a rickshaw [see comments] Kohli A, et al. **Forensic Sci Int** 1996 Mar 5;78(1):7–11. Comment in: Forensic Sci Int 1996 Sep 30;82(2):191–2.
Development of an upper extremity FES system for individuals with C4 tetraplegia. Smith BT, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):264–70 (26 ref.)
Bike speed measurements in a recreational population: validity of self reported speed. Thompson DC, et al. **Inj Prev** 1997 Mar;3(1):43–5
Effect of sprint cycle training on activities of antioxidant enzymes in human skeletal muscle. Hellsten Y, et al. **J Appl Physiol** 1996 Oct;81(4):1484–7
Peak ventilatory responses during cycling and swimming in pregnant and nonpregnant women. Spinnewijn WE, et al. **J Appl Physiol** 1996 Aug;81(2):738–42
Pedal and knee loads using a multi–degree–of–freedom pedal platform in cycling. Boyd TF, et al. **J Biomech** 1997 May; 30(5):505–11
Do bicycle helmets protect, and should they be mandatory? [letter; comment] Bayliss J. **JAMA** 1997 Mar 19; 277(11):883; discussion 884. Comment on: JAMA 1996 Dec 25;276(24):1968–73. Comment on: JAMA 1996 Dec 25;276(24):1974–5.
Do bicycle helmets protect, and should they be mandatory? [letter; comment] Goldman D. **JAMA** 1997 Mar 19; 277(11):883–4; discussion 884. Comment on: JAMA 1996 Dec 25;276(24):1968–73. Comment on: JAMA 1996 Dec 25;276(24):1974–5.
Reliability of a 1–h endurance performance test in trained female cyclists. Bishop D. **Med Sci Sports Exerc** 1997 Apr; 29(4):554–9
Use of bicycle helmets by Greensboro children. Greer D, et al. **N C Med J** 1997 May–Jun;58(3):190–1; discussion 192
Vasodepressor syncope in competitive cyclists [letter] Kay IP, et al. **N Z Med J** 1997 Jun 27;110(1046):236–7
Fuel substrate turnover and oxidation and glycogen sparing with carbohydrate ingestion in non–carbohydrate–loaded cyclists. Bosch AN, et al. **Pflugers Arch** 1996 Oct; 432(6):1003–10
[The low vision cyclist: handicapped orientation and assessment with the nystagmogram] Piper HF. **Klin Monatsbl Augenheilkd** 1997 Feb;210(2):97–104 (Eng. Abstr.) **(Ger)**
[Disorders of water– and electrolyte balance in a triathlon. 2 case reports and review of the literature] Günthard H, et al. **Schweiz Rundsch Med Prax** 1997 May 28; 86(22):937–42 (Eng. Abstr.) **(Ger)**

ECONOMICS

Influence of different racing positions on metabolic cost in elite cyclists. Gnehm P, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):818–23

INJURIES

An epidemiological study of bicycle–related injuries. Eilert–Petersson E, et al. **Accid Anal Prev** 1997 May; 29(3):363–72
Can a combination of local, regional and national information substantially increase bicycle–helmet wearing and reduce injuries? Experiences from Sweden. Ekman R, et al. **Accid Anal Prev** 1997 May;29(3):321–8
Exploring the male–female discrepancy in death rates from bicycling injury: the decomposition method. Li G, et al. **Accid Anal Prev** 1996 Jul;28(4):537–40
Head injuries and bicycle helmet laws. Robinson DL. **Accid Anal Prev** 1996 Jul;28(4):463–75
Trends in cycle injury in New Zealand under voluntary helmet use. Scuffham PA, et al. **Accid Anal Prev** 1997 Jan; 29(1):1–9
A comparative analysis of alcohol in fatal and nonfatal bicycling injuries. Li G, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1553–9
Predictors of injury among 1638 riders in a recreational long–distance bicycle tour: Cycle Across Maryland. Dannenberg AL, et al. **Am J Sports Med** 1996 Nov–Dec; 24(6):747–53
Helmets work best [editorial; comment] Graitcer PL. **Ann Emerg Med** 1997 May;29(5):643–4 (10 ref.). Comment on: Ann Emerg Med 1997 May;29(5):625–9.
Bicycle–related injuries among preschool children. Powell EC, et al. **Ann Emerg Med** 1997 Sep;30(3):260–5
Bicycle–riding circumstances and injuries in school–aged children. A case–control study. Senturia YD, et al. **Arch Pediatr Adolesc Med** 1997 May;151(5):485–9
Handlebar injuries in children: patterns and prevention. Clarnette TD, et al. **Aust N Z J Surg** 1997 Jun;67(6):338–9
Cyclists should wear helmets. Increasing the number of cyclists is more important [letter; comment] Davis A. **BMJ** 1997 Jan 4;314(7073):69. Comment on: BMJ 1996 Sep 7;313(7057):629.
Cyclists should wear helmets. Health benefits of cycling greatly outweigh loss of life years from deaths [letter; comment] Hillman M. **BMJ** 1997 Jan 4;314(7073):70. Comment on: BMJ 1996 Sep 7;313(7057):629.
Cyclists should wear helmets. Better to control the demand for fast cars [letter; comment] [see comments] Keatinge

R. **BMJ** 1997 Jan 4;314(7073):70. Comment on: BMJ 1996 Sep 7;313(7057):629. Comment in: BMJ 1997 Mar 29;314(7085):977.

Cyclists should wear helmets [letter; comment] Pless B, et al. **BMJ** 1997 Mar 29;314(7085):977. Comment on: BMJ 1997 Jan 4;314(7073):70.

Cyclists should wear helmets. Motorists are the cause of the problem [letter; comment] Waterston T. **BMJ** 1997 Jan 4;314(7073):69. Comment on: BMJ 1996 Sep 7;313(7057):629.

Case of the month: the lateral cervical spine in major trauma. Logan PM, et al. **Br J Radiol** 1996 Dec;69(828):1197–8

Evaluation of elite British cyclists: the role of the squad medical. Callaghan MJ, et al. **Br J Sports Med** 1996 Dec; 30(4):349–53

The pattern of injury in fatal pedal cycle accidents and the possible benefits of cycle helmets. Kennedy A. **Br J Sports Med** 1996 Jun;30(2):130–3

Traumatic occlusion of the external iliac artery in a racing cyclist: a cause of ill defined leg pain. Taylor AJ, et al. **Br J Sports Med** 1997 Jun;31(2):155–6

Evaluation of a four-year bicycle helmet promotion campaign in Quebec aimed at children ages 8 to 12: impact on attitudes, norms and behaviours. Farley C, et al. **Can J Public Health** 1997 Jan–Feb;88(1):62–6

Bicycle-related injuries in children: a study in two Ontario emergency departments, 1994. Schwartz HJ, et al. **Chronic Dis Can** 1996 Spring;17(2):56–62

Head injuries from bicycle accidents. Zentner J, et al. **Clin Neurol Neurosurg** 1996 Nov;98(4):281–5

The bicycle spoke injury: an avoidable accident? D'Souza LG, et al. **Foot Ankle Int** 1996 Mar;17(3):170–3

Does sharing the cost of a bicycle helmet help promote helmet use? Kim AN, et al. **Inj Prev** 1997 Mar;3(1):38–42

Epidemiology of bicycle injuries and risk factors for serious injury. Rivara FP, et al. **Inj Prev** 1997 Jun;3(2):110–4

Bicycle-spoke injuries: a prospective study. Segers MJ, et al. **Injury** 1997 May;28(4):267–9

Bicycle helmet laws: a current perspective. Borgialli DA. **J Am Osteopath Assoc** 1997 Jul;97(7):399–402 (25 ref.)

Cycling injuries among junior high school children in Taiwan. See LC, et al. **J Formos Med Assoc** 1997 Aug; 96(8):641–8

Pneumopericardium: an unusual manifestation of blunt tracheal trauma. Chitre VV, et al. **J Laryngol Otol** 1997 Apr;111(4):387–8

Effectiveness of bicycle safety helmets in preventing head injuries. A case-control study [see comments] Thompson DC, et al. **JAMA** 1996 Dec 25;276(24):1968–73. Comment in: JAMA 1997 Mar 19;277(11):883; discussion 884. Comment in: JAMA 1997 Mar 19;277(11):883–4; discussion 884.

Effectiveness of bicycle safety helmets in preventing serious facial injury [see comments] Thompson DC, et al. **JAMA** 1996 Dec 25;276(24):1974–5. Comment in: JAMA 1997 Mar 19;277(11):883; discussion 884. Comment in: JAMA 1997 Mar 19;277(11):883–4; discussion 884.

Helmets and bicycle-related injuries in Queensland [letter] Acton CH. **Med J Aust** 1997 Sep 15;167(6):338–9; discussion 339

Helmets and bicycle-related injuries in Queensland [letter] Colson M. **Med J Aust** 1997 Sep 15;167(6):339; discussion 339

Helmets and bicycle-related injuries in Queensland [letter] McDermott FT. **Med J Aust** 1997 Sep 15;167(6):338; discussion 339

Helmets and bicycle-related injuries in Queensland [letter; comment] Robinson DL. **Med J Aust** 1997 May 5; 166(9):510. Comment on: Med J Aust 1996 Sep 2;165(5):249–51.

Helmets and bicycle-related injuries in Queensland [letter] Simpson DA, et al. **Med J Aust** 1997 Sep 15;167(6):338; discussion 339

Acute injuries in cross-country and downhill off-road bicycle racing. Kronisch RL, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1351–5

Craniocervical bone pneumatisation. Sadler DJ, et al. **Neuroradiology** 1996 May;38(4):330–2

Vomiting and anuria after bicycle accident. Swischuk LE. **Pediatr Emerg Care** 1996 Apr;12(2):137–9

Pediatric head injuries and deaths from bicycling in the United States. Sosin DM, et al. **Pediatrics** 1996 Nov; 98(5):868–70

Road characteristics and bicycle accidents. Nyberg P, et al. **Scand J Soc Med** 1996 Dec;24(4):293–301

[Dissecting aneurysm of the external iliac artery. An unusual course of endofibrosis in an athlete] Del Gallo G, et al. **J Mal Vasc** 1996;21(2):95–7 (Eng. Abstr.) **(Fre)**

[Bicycle accidents. A retrospective study 1986–1991] Reinhardt G, et al. **Versicherungsmedizin** 1996 Feb 1; 48(1):15–7 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Head injuries and bicycle helmet laws. Robinson DL. **Accid Anal Prev** 1996 Jul;28(4):463–75

Observational evaluation of compliance with traffic regulations among helmeted and nonhelmeted bicyclists [see comments] Farris C, et al. **Ann Emerg Med** 1997 May; 29(5):625–9. Comment in: Ann Emerg Med 1997 May;29(5):643–4.

Effect of education and legislation on bicycle helmet use in a multiracial population. Abularrage JJ, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):41–4

Evaluation of a statewide bicycle helmet law via multiple measures of helmet use. Ni H, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):59–65

Cyclists should wear helmets. Australian laws making helmets compulsory deterred people from cycling [letter; comment] Robinson DL. **BMJ** 1997 Jan 4;314(7073):69–70. Comment on: BMJ 1996 Sep 7;313(7057):629.

PHYSIOLOGY

Impotence and nerve entrapment in long distance amateur cyclists. Andersen KV, et al. **Acta Neurol Scand** 1997 Apr; 95(4):233–40

Reduced arterial O2 saturation during supine exercise in highly trained cyclists. Pedersen PK, et al. **Acta Physiol Scand** 1996 Dec;158(4):325–31

Echocardiographic features of left atrium in elite male athletes. Toutouzas K, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1314–7

The effect of long-distance cycling on the prostate-specific antigen level. Swain RA, et al. **Arch Fam Med** 1997 Sep–Oct;6(5):500–2

Sampling arterialised-venous blood from a dorsal-hand vein during exercise without compromising a competitive cycling position. Weston SB, et al. **Aust J Sci Med Sport** 1997 Jun;29(2):51–4

Sports supplement drinks and dental health in competitive swimmers and cyclists. Milosevic A, et al. **Br Dent J** 1997 Apr 26;182(8):303–8

Effects of submaximal cycling and long-term endurance training on neutrophil phagocytic activity in middle aged men. Blannin AK, et al. **Br J Sports Med** 1996 Jun; 30(2):125–9

Changes in plasma enzyme activities in professional racing cyclists. Mena P, et al. **Br J Sports Med** 1996 Jun; 30(2):122–4

Circulating levels of peripheral blood leucocytes and cytokines following competitive cycling. Gannon GA, et al. **Can J Appl Physiol** 1997 Apr;22(2):133–47

Weight changes and serum sodium concentrations after an ultradistance multisport triathlon. Speedy DB, et al. **Clin J Sport Med** 1997 Apr;7(2):100–3

Cardiac anatomy, function and metabolism in elite cyclists assessed by magnetic resonance imaging and spectroscopy [see comments] Pluim BM, et al. **Eur Heart J** 1996 Aug; 17(8):1271–8. Comment in: Eur Heart J 1996 Aug;17(8):1138–40.

Effect of fatigue on maximal velocity and maximal torque during short exhausting cycling. Buttelli O, et al. **Eur J Appl Physiol** 1996;73(1–2):175–9

Effects of 3 days of carbohydrate supplementation on muscle glycogen content and utilisation during a 1-h cycling performance. Hawley JA, et al. **Eur J Appl Physiol** 1997; 75(5):407–12

The effect of salbutamol on performance in endurance cyclists. Norris SR, et al. **Eur J Appl Physiol** 1996; 73(3–4):364–8

Changes in lipid profile variables in response to submaximal and maximal exercise in trained cyclists. El-Sayed MS, et al. **Eur J Appl Physiol** 1996;73(1–2):88–92

Influence of test duration and event specificity on maximal accumulated oxygen deficit of high performance track cyclists. Craig NP, et al. **Int J Sports Med** 1995 Nov; 16(8):534–40

Evaluation of maximal left ventricular performance in elite bicyclists. Di Bello V, et al. **Int J Sports Med** 1995 Nov; 16(8):498–506

Effects of a long-term training program of increasing intensity on the immune function of indoor Olympic cyclists. Ferrández MD, et al. **Int J Sports Med** 1996 Nov; 17(8):592–6

Cycling cadence alters exercise hemodynamics. Gotshall RW, et al. **Int J Sports Med** 1996 Jan;17(1):17–21

The Y-intercept of the maximal work-duration regression and field tests of anaerobic capacity in cyclists. Green S, et al. **Int J Sports Med** 1996 Jan;17(1):41–7

Relationships between testosterone, cortisol and performance in professional cyclists. Hoogeveen AR, et al. **Int J Sports Med** 1996 Aug;17(6):423–8

Carbohydrate-electrolyte feedings improve 1 h time trial cycling performance. Jeukendrup A, et al. **Int J Sports Med** 1997 Feb;18(2):125–9

The influence of starch structure on glycogen resynthesis and subsequent cycling performance. Jozsi AC, et al. **Int J Sports Med** 1996 Jul;17(5):373–8

Simultaneous determination of gastric emptying and intestinal absorption during cycle exercise in humans. Lambert GP, et al. **Int J Sports Med** 1996 Jan;17(1):48–55

Effects of differing pedalling speeds on the power-duration relationship of high intensity cycle ergometry. McNaughton L, et al. **Int J Sports Med** 1996 May; 17(4):287–92

Economy during a simulated laboratory test triathlon is highly related to Olympic distance triathlon. Miura H, et al. **Int J Sports Med** 1997 May;18(4):276–80

Pre-exercise glycerol hydration improves cycling endurance time. Montner P, et al. **Int J Sports Med** 1996 Jan; 17(1):27–33

Assessment of the reproducibility of performance testing on an air-braked cycle ergometer. Palmer GS, et al. **Int J Sports Med** 1996 May;17(4):293–8

Sodium citrate ingestion enhances 30 km cycling performance. Potteiger JA, et al. **Int J Sports Med** 1996 Jan;17(1):7–11

Plasma norepinephrine responses to cycle exercise in boys and men. Rowland TW, et al. **Int J Sports Med** 1996 Jan; 17(1):22–6

The effects of mountain bike suspension systems on energy expenditure, physical exertion, and time trial performance during mountain bicycling. Seifert JG, et al. **Int J Sports Med** 1997 Apr;18(3):197–200

Cortisol response to exercise and post-exercise suppression of blood lymphocyte subset counts. Shinkai S, et al. **Int J Sports Med** 1996 Nov;17(8):597–603

Daily variation in energy expenditure during weight-training versus continuous arm cranking and cycling. van Etten LM, et al. **Int J Sports Med** 1996 Oct;17(7):497–503

The effects of salmeterol on power output in nonasthmatic athletes. McDowell SL, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):443–9

An improved accuracy six-load component pedal dynamometer for cycling. Boyd T, et al. **J Biomech** 1996 Aug;29(8):1105–10

Muscle activity patterns altered during pedaling at different body orientations. Brown DA, et al. **J Biomech** 1996 Oct; 29(10):1349–56

Crank inertial load has little effect on steady-state pedaling coordination. Fregly BJ, et al. **J Biomech** 1996 Dec; 29(12):1559–67

A state-space analysis of mechanical energy generation, absorption, and transfer during pedaling. Fregly BJ, et al. **J Biomech** 1996 Jan;29(1):81–90

Muscle coordination of maximum-speed pedaling. Raasch CC, et al. **J Biomech** 1997 Jun;30(6):595–602

A dynamic system model of an off-road cyclist. Wang EL, et al. **J Biomech Eng** 1997 Aug;119(3):248–53

Physiological profile of best Czech male and female young triathletes. Bunc V, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):265–70

The effect of exercise induced glycogen depletion on the lactate, ventilatory and electromyographic thresholds. Glass C, et al. **J Sports Med Phys Fitness** 1997 Mar; 37(1):32–40

Cross-training between cycling and running in untrained females. Ruby B, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):246–54

Correlations between short-course triathlon performance and physiological variables determined in laboratory cycle and treadmill tests. Zhou S, et al. **J Sports Med Phys Fitness** 1997 Jun;37(2):122–30

Cardiorespiratory, hormonal and haematological responses to submaximal cycling performed 2 days after eccentric or concentric exercise bouts. Gleeson M, et al. **J Sports Sci** 1995 Dec;13(6):471–9

Training techniques to improve fatigue resistance and enhance endurance performance. Hawley JA, et al. **J Sports Sci** 1997 Jun;15(3):325–33

Effect of variation in seat tube angle at different seat heights on submaximal cycling performance in man. Price D, et al. **J Sports Sci** 1997 Aug;15(4):395–402

Carbohydrate ingestion improves endurance performance during a 1 h simulated cycling time trial. el-Sayed MS, et al. **J Sports Sci** 1997 Apr;15(2):223–30

Anaerobic ATP production and accumulated O2 deficit in cyclists. Green S, et al. **Med Sci Sports Exerc** 1996 Mar; 28(3):315–21

Methodological effects on the VO2-power regression and the accumulated O2 deficit. Green S, et al. **Med Sci Sports Exerc** 1996 Mar;28(3):392–7

Improved athletic performance in highly trained cyclists after interval training. Lindsay FH, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1427–34

Oxygen consumption of cycle ergometry is nonlinearly related to work rate and pedal rate. Londeree BR, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):775–80

Age and cardiac output during cycle exercise in thermoneutral and warm environments. Minson CT, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):75–81

No effect of cycling experience on leg cycle ergometer efficiency. Nickleberry BL Jr, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1396–401

Effects of steady-state versus stochastic exercise on subsequent cycling performance. Palmer GS, et al. **Med Sci Sports Exerc** 1997 May;29(5):684–7

Thermoregulatory responses to cycling with and without a helmet. Sheffield-Moore M, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):755–61

A model for optimizing cycling performance by varying power on hills and in wind. Swain DP. **Med Sci Sports Exerc** 1997 Aug;29(8):1104–8

Metabolic profile of high intensity intermittent exercises. Tabata I, et al. **Med Sci Sports Exerc** 1997 Mar;29(3):390–5

Optimal pedaling rate estimated from neuromuscular fatigue for cyclists. Takaishi T, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):1492–7

Physiological profiles of elite off-road and road cyclists. Wilber RL, et al. **Med Sci Sports Exerc** 1997 Aug; 29(8):1090–4

Adaptation of the lumbar spine to different positions in bicycle racing. Usabiaga J, et al. **Spine** 1997 Sep 1; 22(17):1965–9

Physical and physiological factors associated with success in the triathlon. Sleivert GG, et al. **Sports Med** 1996 Jul; 22(1):8–18

BICYCLING

PSYCHOLOGY

Observational evaluation of compliance with traffic regulations among helmeted and nonhelmeted bicyclists [see comments] Farris C, et al. **Ann Emerg Med** 1997 May; 29(5):625–9. Comment in: Ann Emerg Med 1997 May;29(5):643–4.

STATISTICS & NUMERICAL DATA

Injuries to bicyclists in Wuhan, People's Republic of China. Li G, et al. **Am J Public Health** 1997 Jun;87(6):1049–52

An international study of the exposure of children to traffic. Roberts I, et al. **Inj Prev** 1997 Jun;3(2):89–93

Doping in cyclism: results of unannounced controls in Flanders (1987–1994). Delbeke FT. **Int J Sports Med** 1996 Aug;17(6):434–8

BICYCLO COMPOUNDS

Analysis of tumor thiol concentrations: comparison of flow cytometric with chemical and biochemical techniques. Horan AD, et al. **Cytometry** 1997 Sep 1;29(1):76–82

CHEMICAL SYNTHESIS

N-[2-(1-azabicyclo[3.3.0]octan-5-yl)ethyl]-2-nitroaniline, a potent muscarinic agonist. Suzuki T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1218–20

Design, synthesis, and pharmacological characterization of (+)-2-aminobicyclo[3.1.0]hexane-2,6-dicarboxylic acid (LY354740): a potent, selective, and orally active group 2 metabotropic glutamate receptor agonist possessing anticonvulsant and anxiolytic properties. Monn JA, et al. **J Med Chem** 1997 Feb 14;40(4):528–37

CHEMISTRY

Search for the pharmacophore in kappa-agonistic diazabicyclo[3.3.1]nonan-9-one-1,5-diesters and arylacetamides. Brandt W, et al. **Arch Pharm (Weinheim)** 1996 Jun;329(6):311–23

Elucidation of the structure of constrained bicyclopeptides in solution by two-dimensional cross-relaxation spectroscopy: amatoxin analogues. Isernia C, et al. **J Pept Sci** 1996 Jan-Feb;2(1):3–13

Probing the active site of alpha-class rat liver glutathione S-transferases using affinity labeling by monobromobimane. Hu L, et al. **Protein Sci** 1997 Jan; 6(1):43–52

METABOLISM

Formation, intracellular distribution and efflux of glutathione-bimane conjugates in drug-sensitive and -resistant MCF-7 cells. Millis KK, et al. **Cancer Chemother Pharmacol** 1997;40(2):101–11

Identification of rat and human cytochrome P450 forms involved in the metabolism of the thromboxane A2 receptor antagonist (+)-S-145. Yamaguchi Y, et al. **Drug Metab Dispos** 1997 Jan;25(1):75–80

Biosynthesis of marcfortine A. Kuo MS, et al. **J Antibiot (Tokyo)** 1996 Oct;49(10):1006–13

PHARMACOKINETICS

Microsomal metabolism of the 5-lipoxygenase inhibitor L-739,010: evidence for furan bioactivation. Zhang KE, et al. **Chem Res Toxicol** 1996 Mar;9(2):547–54

Effect of food intake on pharmacokinetics and effects of a new thromboxane A2 receptor antagonist, S-1452. Fujimura A, et al. **Eur J Clin Pharmacol** 1996;50(4):311–4

Sex differences in the metabolism of (+)-S-145, a novel thromboxane A2 receptor antagonist in rat. Yamaguchi Y, et al. **Xenobiotica** 1996 Jun;26(6):613–26

PHARMACOLOGY

Modulation of sensitivity to cis-diamminedichloroplatinum (II) by thromboxane A2 receptor antagonists in non-small-cell lung cancer cell lines. Kasahara K, et al. **Br J Cancer** 1996 Nov;74(10):1553–8

Effects of [3H]-BIDN, a novel bicyclic dinitrile radioligand for GABA-gated chloride channels of insects and vertebrates. Rauh JJ, et al. **Br J Pharmacol** 1997 Aug; 121(7):1496–505

N-[2-(1-azabicyclo[3.3.0]octan-5-yl)ethyl]-2-nitroaniline, a potent muscarinic agonist. Suzuki T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1218–20

AL0671, a new potassium channel opener, inhibits nonenzymatic glycation of protein and LDL oxidation. Yamauchi T, et al. **Gen Pharmacol** 1996 Mar;27(2):257–62

LY354740 is a potent and highly selective group II metabotropic glutamate receptor agonist in cells expressing human glutamate receptors. Schoepp DD, et al. **Neuropharmacology** 1997 Jan;36(1):1–11

A novel orally active group 2 metabotropic glutamate receptor agonist: LY354740. Bond A, et al. **Neuroreport** 1997 Apr 14;8(6):1463–6

In vivo inhibition of veratridine-evoked release of striatal excitatory amino acids by the group II metabotropic glutamate receptor agonist LY354740 in rats. Battaglia G, et al. **Neurosci Lett** 1997 Jul 4;229(3):161–4

Bicycloillicinone asarone acetal: a novel prenylated C6-C3 compound increasing choline acetyltransferase (ChAT) activity from Illicium tashiroi [letter] Fukuyama Y, et al. **Planta Med** 1997 Jun;63(3):275–7

Involvement of thromboxane A2 in bronchial hyperresponsiveness of asthma. Kanazawa Asthma Research Group. Fujimura M, et al. **Pulm Pharmacol** 1995 Dec;8(6):251–7

THERAPEUTIC USE

[Thromboxane A2 receptor antagonist in asthma therapy] Endo S, et al. **Nippon Rinsho** 1996 Nov;54(11):3045–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

TOXICITY

Lipidosis induced in the dog gallbladder by a direct 5-lipoxygenase inhibitor. Molon-Noblot S, et al. **Toxicol Pathol** 1996 Mar-Apr;24(2):231–7

BICYCLO COMPOUNDS, HETEROCYCLIC

ADMINISTRATION & DOSAGE

[The new potassium channel blocker tedisamil and its hemodynamic, anti-ischemic and neurohumoral effect in patients with coronary heart disease] Mitrovic V, et al. **Z Kardiol** 1996 Dec;85(12):961–72 (Eng. Abstr.) **(Ger)**

[Clinical effect of two azasetron treatment methods against nausea and vomiting induced by anticancer drugs including CDDP] Kimura E, et al. **Gan To Kagaku Ryoho** 1997 May; 24(7):855–9 (Eng. Abstr.) **(Jpn)**

ANALYSIS

A color spot test for the detection of Kryptofix 2.2.2 in [18F]FDG preparations. Mock BH, et al. **Nucl Med Biol** 1997 Feb;24(2):193–5

CHEMICAL SYNTHESIS

Synthesis and anti-inflammatory properties of 8-(3-dimethylaminopropionyl)-1,6-benzodioxocane. Daukšas V, et al. **Arzneimittelforschung** 1995 Nov; 45(11):1202–6

Synthesis and dopamine transporter affinity of 2-(methoxycarbonyl)-9-methyl-3-phenyl-9-azabicyclo[3.3.1]nonane derivatives. Chen Z, et al. **J Med Chem** 1996 Nov 22;39(24):4744–9

CHEMISTRY

Neurotoxin formation from pilot-scale incineration of synthetic ester turbine lubricants with a triaryl phosphate additive. Rubey WA, et al. **Arch Toxicol** 1996;70(8):508–9

Synthesis of ethylammonium iodides of omega-dialkylaminoethyl ethers of 5-(arylmethylene)-1,3,3-trimethyl-2-oxabicyclo [2.2.2.] octan-6-hydroxyimines as potential cosmetic ingredients. Mariani E, et al. **Boll Chim Farm** 1996 May;135(5):335–41

DIAGNOSTIC USE

Fluorine-18-FPH for PET imaging of nicotinic acetylcholine receptors. Horti A, et al. **J Nucl Med** 1997 Aug; 38(8):1260–5

[125/123I]IPH: a radioiodinated analog of epibatidine for in vivo studies of nicotinic acetylcholine receptors. Musachio JL, et al. **Synapse** 1997 Aug;26(4):392–9

ISOLATION & PURIFICATION

Madindoline, a novel inhibitor of IL-6 activity from Streptomyces sp. K93-0711. I. Taxonomy, fermentation, isolation and biological activities. Hayashi M, et al. **J Antibiot (Tokyo)** 1996 Nov;49(11):1091–5

A new isopatulin derivative pintulin produced by Penicillium vulpinum F-4148 taxonomy, isolation, physico-chemical properties, structure and biological properties. Mikami A, et al. **J Antibiot (Tokyo)** 1996 Oct;49(10):985–9

METABOLISM

Functional correlation between allopregnanolone and [35S]-TBPS binding in the brain of rats exposed to isoniazid, pentylenetetrazol or stress. Concas A, et al. **Br J Pharmacol** 1996 Jun;118(4):839–46

Epibatidine binding sites and activity in the spinal cord. Khan IM, et al. **Brain Res** 1997 Apr 11;753(2):269–82

Synthesis and nicotinic acetylcholine receptor binding properties of exo-2-(2'-fluoro-5'-pyridinyl)-7-azabicyclo-[2.2.1]heptane: a new positron emission tomography ligand for nicotinic receptors. Liang F, et al. **J Med Chem** 1997 Jul 18;40(15):2293–5

Modulation of GABAA receptor tert-[35S]butylbicyclophosphorothionate binding by antagonists: relationship to patterns of subunit expression. Korpi ER, et al. **J Neurochem** 1996 May;66(5):2179–87

Autoradiographic distribution of [3H]-(S)-zacopride-labelled 5-HT3 receptors in human brain. Parker RM, et al. **J Neurol Sci** 1996 Dec; 144(1-2):119–27

[125I]IPH, an epibatidine analog, binds with high affinity to neuronal nicotinic cholinergic receptors. Dávila-García MI, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):445–51

Characterization of [3H]ethynylbicycloorthobenzoate ([3H]EBOB) binding and the action of insecticides on the gamma-aminobutyric acid-gated chloride channel in cultured cerebellar granule neurons. Huang J, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1191–6

Effects of the androgenic/anabolic steroid stanozolol on GABAA receptor function: GABA-stimulated 36Cl-influx and [35S] TBPS binding. Masonis AE, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):186–93

High affinity binding of azasetron hydrochloride to 5-hydroxytryptamine3 receptors in the small intestine of rats. Katayama K, et al. **Jpn J Pharmacol** 1997 Apr; 73(4):357–60

PHARMACOKINETICS

Absorption characteristics of azasetron from rectal and oral routes in rabbits. Moriyama Y, et al. **Biol Pharm Bull** 1997 Jun;20(6):701–3

PHARMACOLOGY

Tyrosine phosphorylation of phosphatidylinositol 3-kinase and of the thromboxane A2 (TXA2) receptor by the TXA2 mimetic I-BOP in A7r5 cells. Morinelli TA, et al. **Biochem Pharmacol** 1997 Jun 15;53(12):1823–32

Squalene synthase inhibition alters metabolism of nonsterols in rat liver. Keller RK. **Biochim Biophys Acta** 1996 Oct 18;1303(3):169–79

Effects of tedisamil (KC-8857) on cardiac electrophysiology and ventricular fibrillation in the rabbit isolated heart. Chi L, et al. **Br J Pharmacol** 1996 Mar;117(6):1261–9

Thromboxane A2 agonist modulation of excitatory synaptic transmission in the rat hippocampal slice. Hsu KS, et al. **Br J Pharmacol** 1996 Aug;118(8):2220–7

Further investigation into the signal transduction mechanism of the 5-HT4-like receptor in the circular smooth muscle of human colon. McLean PG, et al. **Br J Pharmacol** 1996 Jun;118(4):1058–64

Distribution and characterisation of the [3H](S)-zacopride labelled 5-HT3 receptor in pig forebrain. Fletcher S, et al. **Brain Res** 1996 Aug 12;729(2):281–4

Differential effects of 5-HT3 receptor antagonism on working memory failure due to deficiency of hippocampal cholinergic and glutamatergic transmission in rats. Ohno M, et al. **Brain Res** 1997 Jul 11;762(1-2):211–5

Norcantharidin inhibits growth of human HepG2 cell-transplanted tumor in nude mice and prolongs host survival. Yang EB, et al. **Cancer Lett** 1997 Jul 15; 117(1):93–8

The cellular electrophysiological effects of tedisamil in human atrial and ventricular fibers. Németh M, et al. **Cardiovasc Res** 1996 Feb;31(2):246–8

Thromboxane A2 receptor density increases during chronic exposure to thromboxane A2 receptor antagonists after porcine carotid bypass. Brothers TE, et al. **Cardiovasc Surg** 1997 Feb;5(1):92–8

Effect of ifetroban, a thromboxane A2 receptor antagonist, in stroke-prone spontaneously hypertensive rats. Johnson RA, et al. **Clin Exp Hypertens** 1996 Feb;18(2):171–88

Lack of effect of the serotonin4 receptor agonist zacopride on ACTH secretion in normal men. Lefebvre H, et al. **Eur J Clin Pharmacol** 1996;51(1):49–51

Antiemetic effects of N-3389, a newly synthesized 5-HT3 and 5-HT4 receptor antagonist, in ferrets. Minami M, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):333–42

Itasetron (DAU 6215) prevents age-related memory deficits in the rat in a multiple choice avoidance task. Pitsikas N, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):115–9

The cardiac electrophysiological effects of sparteine and its analogue BRB-I-28 in the rat. Pugsley MK, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):319–27

Blockade of cardiac Na+ channels by a charged class I antiarrhythmic agent, bisaramil: possible interaction of the drug with a pre-open closed state. Sunami A, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):245–55

Regulation of [3H]norepinephrine release from guinea pig hippocampus by sigma2 receptors. Weatherspoon JK, et al. **Eur J Pharmacol** 1997 May 20;326(2-3):133–8

Inhibition by bertosamil of cardiac responses to pinacidil or Bay k 8644 in isolated dog atria and ventricles. Yonezawa T, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):51–8

Microfilament-disrupting agent latrunculin A induces and increased number of fenestrae in rat liver sinusoidal endothelial cells: comparison with cytochalasin B. Braet F, et al. **Hepatology** 1996 Sep;24(3):627–35

Spinal nicotinic receptor expression in spontaneously hypertensive rats. Khan IM, et al. **Hypertension** 1996 Dec; 28(6):1093–9

Biological activities of novel zaragozic acids, the potent inhibitors of squalene synthase, produced by the fungus, Mollisia sp. SANK 10294. Tanimoto T, et al. **J Antibiot (Tokyo)** 1997 May;50(5):390–4

Involvement of 5-hydroxytryptamine (5-HT)3 receptor mechanisms in regulation of basal pancreatic secretion in conscious rats. Masuda M, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1-2):58–62

Farnesol-derived dicarboxylic acids in the urine of animals treated with zaragozic acid A or with farnesol. Bostedor RG, et al. **J Biol Chem** 1997 Apr 4;272(14):9197–203

Electrophysiological and inotropic characterization of a novel class III antiarrhythmic agent, GLG-V-13, in the mammalian heart. Fazekas T, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):182–91

Differential class III antiarrhythmic effects of ambasilide and

dofetilide at different extracellular potassium and pacing frequencies. Gjini V, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):314–20

High rates of actin filament turnover in budding yeast and roles for actin in establishment and maintenance of cell polarity revealed using the actin inhibitor latrunculin-A. Ayscough KR, et al. **J Cell Biol** 1997 Apr 21; 137(2):399–416

Pharmacological evidence for thromboxane receptor heterogeneity--implications for the eye. Krauss AH, et al. **J Ocul Pharmacol Ther** 1997 Aug;13(4):303–12

Effect of cisapride and renzapride on gastrointestinal motility and plasma motilin concentration in dogs. Song CW, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1312–6

Latrunculin A is a potent inducer of aggregation of polymorphonuclear leukocytes. Oliveira CA, et al. **Life Sci** 1997;61(6):603–9

Stereoselective effects of (R)- and (S)-zacopride on cognitive performance in a spatial navigation task in rats. Fontana DJ, et al. **Neuropharmacology** 1996 Mar;35(3):321–7

BIMU1 increases associative memory in rats by activating 5-HT4 receptors. Marchetti-Gauthier E, et al. **Neuropharmacology** 1997 Apr-May;36(4–5):697–706

Effects of anxiety and memory of systemic and intra-amygdala injection of 5-HT3 receptor antagonist BRL 46470A. Gargiulo PA, et al. **Neuropsychobiology** 1996;33(4):189–95

Effect of urine-derived compounds on cAMP accumulation in mouse vomeronasal cells. Zhou A, et al. **Neuroreport** 1997 Jul 7;8(9–10):2173–7

Role of cerebellar granule cell-specific GABAA receptor subtype in the differential sensitivity of [3H]ethynylbicycloorthobenzoate binding to GABA mimetics. Huang J, et al. **Neurosci Lett** 1997 Apr 4; 225(2):85–8

Effects of 5-HT4 receptor agonists and antagonists in learning. Meneses A, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):347–51

Bisaramil and antiarrhythmics as inhibitors of free radical generation. Paróczai M, et al. **Pharmacol Res** 1997 Apr; 35(4):279–85

GYKI-46 903, a non-competitive antagonist for 5-HT3 receptors. Csillik-Perczel V, et al. **Pharmacol Toxicol** 1996 Jul;79(1):32–9

Characterization of a rat kidney thromboxane A2 receptor: high affinity for the agonist ligand I-BOP. D'Angelo DD, et al. **Prostaglandins** 1996 Oct;52(4):303–16

THERAPEUTIC USE

Arteflene compared with mefloquine for treating Plasmodium falciparum malaria in children. Radloff PD, et al. **Am J Trop Med Hyg** 1996 Sep;55(3):259–62

Comparison of oral itasetron with oral ondansetron: results of a double-blind, active-controlled phase II study in chemotherapy-naive patients receiving moderately emetogenic chemotherapy. Goldschmidt H, et al. **Anticancer Drugs** 1997 Jun;8(5):436–44

Effects of tedisamil (KC-8857) on cardiac electrophysiology and ventricular fibrillation in the rabbit isolated heart. Chi L, et al. **Br J Pharmacol** 1996 Mar;117(6):1261–9

Tedisamil increases coherence during ventricular fibrillation and decreases defibrillation energy requirements. Dorian P, et al. **Cardiovasc Res** 1997 Feb;33(2):485–94

Efficacy of intra-arterial norcantharidin in suppressing tumour 14C-labelled glucose oxidative metabolism in rat Morris hepatoma. Mack P, et al. **HPB Surg** 1996; 10(2):65–72

KC8851, a tedisamil analogue with mixed channel blockade, exhibits antiarrhythmic properties against ischemia- and electrically-induced arrhythmias. Xu R, et al. **Life Sci** 1997; 61(3):237–48

Effects of bisaramil on coronary-occlusion-reperfusion injury and free-radical-induced reactions. Paróczai M, et al. **Pharmacol Res** 1996 Jun;33(6):327–36

BIFIDOBACTERIUM

Reduction of oxazepam to desmethyldiazepam by human intestinal bacteria. Okamura T, et al. **Biol Pharm Bull** 1996 Apr;19(4):647–48

Neonatal meningitis caused by Bifidobacterium breve. Nakazawa T, et al. **Brain Dev** 1996 Mar-Apr;18(2):160–2

Digestion and tolerance of lactose from yoghurt and different semi-solid fermented dairy products containing Lactobacillus acidophilus and bifidobacteria in lactose maldigesters--is bacterial lactase important? Vesa TH, et al. **Eur J Clin Nutr** 1996 Nov;50(11):730–3

Effect of yogurt and bifidus yogurt fortified with skim milk powder, condensed whey and lactose-hydrolysed condensed whey on serum cholesterol and triacylglycerol levels in rats. Beena A, et al. **J Dairy Res** 1997 Aug; 64(3):453–7

Effect of 4G-beta-D-galactosylsucrose (lactosucrose) on fecal microflora in patients with chronic inflammatory bowel disease. Teramoto F, et al. **J Gastroenterol** 1996 Feb; 31(1):33–9

Inhibition of the accumulation of uremic toxins in the blood and their precursors in the feces after oral administration of Lebenin, a lactic acid bacteria preparation, to uremic patients undergoing hemodialysis. Hida M, et al. **Nephron** 1996;74(2):349–55

Effect of spray-dried yogurt and lactic acid bacteria on the initiation and promotion stages of chemically induced skin carcinogenesis in mice. McCarthy AC, et al. **Nutr Cancer** 1997;27(3):231–7

[Normalization of intestinal microflora and the general condition of mice of the JCR line as affected by Bifidobacterium concentrate] Baĭbakov VI, et al. **Antibiot Khimioter** 1997;42(3):20–4 (Eng. Abstr.) **(Rus)**

[The efficacy of the eubiotic bifacide when used in the combined antibacterial therapy of newborn infants with infectious-inflammatory diseases] Kushnareva MV, et al. **Antibiot Khimioter** 1996;41(11):28–32 (Eng. Abstr.) **(Rus)**

[The development and clinical evaluation of the probiotic Bifidumbacterin forte] Grigor'ev AV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):92–6 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Proteinaceous factor(s) in culture supernatant fluids of bifidobacteria which prevents the binding of enterotoxigenic Escherichia coli to gangliotetraosylceramide. Fujiwara S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):506–12

CLASSIFICATION

Evaluation of using a short region of the recA gene for rapid and sensitive speciation of dominant bifidobacteria in the human large intestine. Kullen MJ, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):377–83

Bifidobacterium inopinatum sp. nov. and Bifidobacterium denticolens sp. nov., two new species isolated from human dental caries. Crociani F, et al. **Int J Syst Bacteriol** 1996 Apr;46(2):564–71

DRUG EFFECTS

Effect of bifidogenic factors on growth characteristics of bifidobacteria in infant formulas. Dubey UK, et al. **J Dairy Sci** 1996 Jul;79(7):1156–63

Effects of fructo-oligosaccharides ingestion on fecal bifidobacteria and selected metabolic indexes of colon carcinogenesis in healthy humans. Bouhnik Y, et al. **Nutr Cancer** 1996;26(1):21–9

[The stimulating action of exogenous RNase on eubiotic strains of Lactobacillus, Bifidobacterium and Escherichia coli] Kolpakov AI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul-Aug;(4):14–8 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Purification and characterization of a novel sennoside-hydrolyzing beta-glucosidase from Bifidobacterium sp. strain SEN, a human intestinal anaerobe. Yang L, et al. **Biol Pharm Bull** 1996 May; 19(5):705–9

A sennoside-hydrolyzing beta-glucosidase from Bifidobacterium sp. strain SEN is inducible. Yang L, et al. **Biol Pharm Bull** 1996 May;19(5):701–4

Allosteric activation of L-lactate dehydrogenase analyzed by hybrid enzymes with effector-sensitive and -insensitive subunits. Fushinobu S, et al. **J Biol Chem** 1996 Oct 11; 271(41):25611–6

GROWTH & DEVELOPMENT

Early administration of Bifidobacterium breve to preterm infants: randomised controlled trial. Kitajima H, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F101–7

Effect of Kluyveromyces marxianus on the growth and survival of bifidobacteria in milk. Rada V. **Folia Microbiol (Praha)** 1997;42(2):145–8

An assessment of three selective media for bifidobacteria in faeces. Silvi S, et al. **J Appl Bacteriol** 1996 Nov;81(5):561–4

Evaluation of media for selective enumeration of Streptococcus thermophilus, Lactobacillus delbrueckii ssp. bulgaricus, Lactobacillus acidophilus, and bifidobacteria. Dave RI, et al. **J Dairy Sci** 1996 Sep;79(9):1529–36

Effect of bifidogenic factors on growth characteristics of bifidobacteria in infant formulas. Dubey UK, et al. **J Dairy Sci** 1996 Jul;79(7):1156–63

Growth characteristics of bifidobacteria in infant formulas. Dubey UK, et al. **J Dairy Sci** 1996 Jul;79(7):1146–55

Digoxigenin-labeled deoxyribonucleic acid probes for the enumeration of bifidobacteria in fecal samples. Kaneko T, et al. **J Dairy Sci** 1997 Jul;80(7):1254–9

Lactulose, lactic acid bacteria, intestinal microecology and mucosal protection. Salminen S, et al. **Scand J Gastroenterol Suppl** 1997;222:45–8 (19 ref.)

[The development of a nutrient medium for Bifidobacterium bifidum biomass accumulation in continuous cultivation processes in a bioreactor] Kritskaia IV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct;(5):81–3 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Analysis of fecal populations of bifidobacteria and lactobacilli and investigation of the immunological responses of their human hosts to the predominant strains. Kimura K, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3394–8

Production of human tumor necrosis factor alpha, interleukin-6, and interleukin-10 is induced by lactic acid bacteria. Miettinen M, et al. **Infect Immun** 1996 Dec; 64(12):5403–5

ISOLATION & PURIFICATION

Identification and quantification of Bifidobacterium species isolated from food with genus-specific 16S rRNA-targeted probes by colony hybridization and PCR. Kaufmann P, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1268–73

Analysis of fecal populations of bifidobacteria and lactobacilli and investigation of the immunological responses of their human hosts to the predominant strains. Kimura K, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3394–8

Specific detection and analysis of a probiotic Bifidobacterium strain in infant feces. Kok RG, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3668–72

Molecular analysis of the composition of the bifidobacterial and lactobacillus microflora of humans. McCartney AL, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4608–13

Fecal beta-D-galactosidase production and Bifidobacteria are decreased in Crohn's disease. Favier C, et al. **Dig Dis Sci** 1997 Apr;42(4):817–22

Selective detection, enumeration and identification of potentially probiotic Lactobacillus and Bifidobacterium species in mixed bacterial populations. Charteris WP, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):1–27 (301 ref.)

Identification of bifidobacteria from dairy products and evaluation of a microplate hybridization method. Yaeshima T, et al. **Int J Food Microbiol** 1996 Jul;30(3):303–13

Survival of lactic acid bacteria in a dynamic model of the stomach and small intestine: validation and the effects of bile. Marteau P, et al. **J Dairy Sci** 1997 Jun;80(6):1031–7

Administration of transgalacto-oligosaccharides increases fecal bifidobacteria and modifies colonic fermentation metabolism in healthy humans. Bouhnik Y, et al. **J Nutr** 1997 Mar;127(3):444–8

Fecal numbers of bifidobacteria are higher in pigs fed Bifidobacterium longum with a high amylose cornstarch than with a low amylose cornstarch. Brown I, et al. **J Nutr** 1997 Sep;127(9):1822–7

Selective enrichment of bifidobacteria in the intestinal tract of broilers by thermally produced kestoses and effect on broiler performance. Patterson JA, et al. **Poult Sci** 1997 Mar;76(3):497–500

16S ribosomal RNA-targeted oligonucleotide probes for monitoring of intestinal tract bacteria. Welling GW, et al. **Scand J Gastroenterol Suppl** 1997;222:17–9

[Intestinal flora in renal allograft recipients] Pan GH, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):759–62 (Eng. Abstr.) **(Chi)**

METABOLISM

Lowering of ochratoxin A level in milk by yoghurt bacteria and bifidobacteria. Skrinjar M, et al. **Folia Microbiol (Praha)** 1996;41(1):26–8

Influence of carcinogen binding by lactic acid-producing bacteria on tissue distribution and in vivo mutagenicity of dietary carcinogens. Bolognani F, et al. **Food Chem Toxicol** 1997 Jun;35(6):535–45

Improvement of lactose digestion in humans by ingestion of unfermented milk containing Bifidobacterium longum. Jiang T, et al. **J Dairy Sci** 1996 May;79(5):750–7

Selected indigestible oligosaccharides affect large bowel mass, cecal and fecal short-chain fatty acids, pH and microflora in rats. Campbell JM, et al. **J Nutr** 1997 Jan; 127(1):130–6

Differentiation of ingested and endogenous bifidobacteria by DNA fingerprinting demonstrates the survival of an unmodified strain in the gastrointestinal tract of humans. Kullen MJ, et al. **J Nutr** 1997 Jan;127(1):89–94

Investigations of bifidobacterial ecology and oligosaccharide metabolism in a three-stage compound continuous culture system. McBain AJ, et al. **Scand J Gastroenterol Suppl** 1997; 222:32–40

PHYSIOLOGY

Immune modulation of blood leukocytes in humans by lactic acid bacteria: criteria for strain selection. Schiffrin EJ, et al. **Am J Clin Nutr** 1997 Aug;66(2):515S–520S

Bifidobacterium longum and lactulose suppress azoxymethane-induced colonic aberrant crypt foci in rats. Challa A, et al. **Carcinogenesis** 1997 Mar;18(3):517–21

Bifidobacterium longum, a lactic acid-producing intestinal bacterium inhibits colon cancer and modulates the intermediate biomarkers of colon carcinogenesis. Singh J, et al. **Carcinogenesis** 1997 Apr;18(4):833–41

Performance of commercial cultures in fluid milk applications. Sanders ME, et al. **J Dairy Sci** 1996 Jun; 79(6):943–55

A clinical trial of probiotic administration for prevention of Salmonella shedding in the postoperative period in horses with colic. Parraga ME, et al. **J Vet Intern Med** 1997 Jan-Feb;11(1):36–41

Lactobacillus- and bifidobacterium-mediated antigenotoxicity in the colon of rats. Pool-Zobel BL, et al. **Nutr Cancer** 1996;26(3):365–80

RADIATION EFFECTS

[The antagonistic properties of bacteria isolated from the digestive tract of female mink housed in the area of the Chernobyl Atomic Electric Power Station] Sudenko VI, et al. **Mikrobiol Z** 1996 Nov-Dec;58(6):38–44 (Eng. Abstr.)

BIFIDOBACTERIUM

(Rus)

BIFUNCTIONAL ANTIBODIES see **ANTIBODIES, BISPECIFIC**

BIFUNCTIONAL REAGENTS see **CROSS-LINKING REAGENTS**

BIGUANIDES

ADVERSE EFFECTS

[Antidiabetic biguanides and lactic acidosis] Rojas Hidalgo E. **Rev Clin Esp** 1997 Aug;197(8):568–73 (45 ref.) **(Spa)**

BLOOD

Determination of proguanil and metabolites in small sample volumes of whole blood stored on filter paper by high-performance liquid chromatography. Kolawole JA, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1; 674(1):149–54

CHEMISTRY

Stereochemistry of serotonin receptor ligands from crystallographic data. Crystal structures of NAN-190.HBr, 1-phenylbiguanide, MDL 72222 and mianserin.HCl and selectivity criteria towards 5-HT1, 5-HT2, and 5-HT3 receptor subtypes. Dalpiaz A, et al. **Acta Crystallogr B** 1996 Jun 1;52 (Pt 3):509–18

Structure-activity relationships for the binding of arylpiperazines and arylbiguanides at 5-HT3 serotonin receptors. Dukat M, et al. **J Med Chem** 1996 Sep 27; 39(20):4017–26

The effects of adding chlorhexidine and polyhexamethylene bisguanide to a light-cured periodontal dressing material. Thorstensen AE, et al. **J Oral Rehabil** 1996 Nov; 23(11):729–32

METABOLISM

Distribution and elimination of [14C] in saithe (Pollachius virens L.) after application of a single dose of [14C] polyhexamethylene hydrochloridebiguanide. Christiansen R, et al. **Bull Environ Contam Toxicol** 1996 Jan;56(1):121–28

Structure-activity relationships for the binding of arylpiperazines and arylbiguanides at 5-HT3 serotonin receptors. Dukat M, et al. **J Med Chem** 1996 Sep 27; 39(20):4017–26

PHARMACOKINETICS

Aspects of the mechanisms of action of biguanides on trophozoites and cysts of Acanthamoeba castellanii. Khunkitti W, et al. **J Appl Microbiol** 1997 Jan;82(1):107–14

PHARMACOLOGY

Effects of 5-HT3 receptor agonists on voluntary ethanol intake in rats maintained on a limited access procedure. Dyr W, et al. **Alcohol Alcohol** 1997 Jul-Aug;32(4):455–62

Somatosensory influences on renal sympathetic nerve activity in anesthetized Wistar and hypertensive rats. Zhang T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R982–90

Loss of bactericidal activity from contact lens storage solutions. Rosenthal RA, et al. **CLAO J** 1997 Jan; 23(1):57–62

Effects of polyhexamethylene biguanide and chlorhexidine on four species of Acanthamoeba in vitro. Tirado-Angel J, et al. **Curr Eye Res** 1996 Feb;15(2):225–8

Effect of a selective 5-HT3 receptor agonist on gastric motility in fasted and fed dogs. Nagakura Y, et al. **Eur J Pharmacol** 1997 May 30;327(2-3):189–93

Augmentation of phenyldiguanide-induced bradycardia by Buthus tamulus venom in adult rats. Tiwari AK, et al. **Indian J Exp Biol** 1996 Jul;34(7):667–70

Age-related effects of cardiac sympathetic denervation on the responses to cardiopulmonary receptor stimulation in piglets. Tong S, et al. **Pediatr Res** 1997 Jan;41(1):72–7

[The pharmacological blockade of protein glycosylation in diabetes mellitus using sulfonylurea derivatives and biguanides] Lebedeva EA. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):40–2 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Should we be using polyhexamethylene biguanide to treat Acanthamoeba keratitis? [editorial] Kumar B, et al. **Aust N Z J Ophthalmol** 1997 May;25(2):94–5

Cardiovascular effects of oral hypoglycaemic drugs. Howes LG, et al. **Clin Exp Pharmacol Physiol** 1996 Mar; 23(3):201–6 (54 ref.)

Polyhexamethylene biguanide (PHMB) in the treatment of experimental Fusarium keratomycosis. Fiscella RG, et al. **Cornea** 1997 Jul;16(4):447–9

In vitro and in vivo effects of polyhexamethylene biguanide against herpes simplex virus infection. Valluri S, et al. **Cornea** 1997 Sep;16(5):556–9

Oral antidiabetic drugs: an overview. Melander A. **Diabet Med** 1996 Sep;13(9 Suppl 6):S143–7 (28 ref.)

Oral antihyperglycaemics. Considerations in older patients with non-insulin-dependent diabetes mellitus. Jennings PE. **Drugs Aging** 1997 May;10(5):323–31 (27 ref.)

Outcome of acanthamoeba keratitis treated with polyhexamethyl biguanide and propamidine. Duguid IG, et al. **Ophthalmology** 1997 Oct;104(10):1587–92

Treatment of Nocardia asteroides keratitis with polyhexamethylene biguanide. Lin JC, et al. **Ophthalmology** 1997 Aug;104(8):1306–11

[Long-term biguanide treatment in the natural evolution of NIDDM] Isnard F. **Journ Annu Diabetol Hotel Dieu** 1996; :273–88 (44 ref.) **(Fre)**

[Value of biguanide in therapy of diabetes mellitus] Haupt E, et al. **Med Klin** 1997 Aug 15;92(8):472–9, 505 (63 ref.) (Eng. Abstr.) **(Ger)**

BILAYER FLUIDITY see **MEMBRANE FLUIDITY**

BILAYERS, LIPID see **LIPID BILAYERS**

BILE

Prevention of biliary stent clogging [letter; comment] Cetta F. **Am J Gastroenterol** 1997 Mar;92(3):542–3. Comment on: Am J Gastroenterol 1996 Jul;91(7):1301–8.

Postoperative bile peritonitis caused by division of an aberrant bile duct in the left triangular ligament of the liver. Iso Y, et al. **Am J Gastroenterol** 1996 Nov;91(11):2428–30

A review of the management of post-cholecystectomy biliary leaks during the laparoscopic era. Mehta SN, et al. **Am J Gastroenterol** 1997 Aug;92(8):1262–7 (73 ref.)

Peritoneal and pleural infection following placement of an internal biliary stent for a large bile leak. Weiss K, et al. **Am J Gastroenterol** 1997 Feb;92(2):347–8 (9 ref.)

The effect of laparoscopic cholecystectomy on gastroduodenal reflux. Maddern GJ, et al. **Aust N Z J Surg** 1997 Oct;67(10):703–5

Bile in the oesophagus: clinical relevance and ambulatory detection. Marshall RE, et al. **Br J Surg** 1997 Jan;84(1):21–8 (90 ref.)

Biliary sludge: a risk factor for 'idiopathic' pancreatitis? Marotta PJ, et al. **Can J Gastroenterol** 1996 Oct;10(6):385–8

Cytologic diagnosis of 'bile peritonitis. Elsheikh TM, et al. **Diagn Cytopathol** 1996 Feb;14(1):56–9

Variable bile retention on cholescintigraphy after morphine administration. Kim CK, et al. **Eur J Nucl Med** 1996 Nov; 23(11):1464–7

Method for collecting bile with a T-cannula in unrestrained conscious beagles. Tsutsumi H, et al. **Exp Anim** 1996 Jul; 45(3):261–3

Combined endoscopic ultrasound and stimulated biliary drainage in cholecystitis and microlithiasis: diagnosis and outcomes. Coyle WJ, et al. **Gastrointest Endosc** 1996 Jul; 44(1):102–3

A new way to obtain contrast-free bile during ERCP [see comments] Schutz SM, et al. **Gastrointest Endosc** 1996 Mar; 43(3):231–2. Comment in: Gastrointest Endosc 1997 Jan;45(1):110–1.

The relationship between acid and bile reflux and symptoms in gastro-oesophageal reflux disease. Marshall RE, et al. **Gut** 1997 Feb;40(2):182–7

Long-term follow-up of endoscopic therapy in patients with post-surgical biliary leakage. Born P, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):477–82

Biliary complications during and after laparoscopic cholecystectomy. Jan YY, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):370–5

Biloma and biliary fistula associated with hepatorrhaphy for liver injury. Shahrudin MD, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):519–21

Role of biliary scintigraphy in management of bile leak. Khanduri A, et al. **Indian J Gastroenterol** 1997 Apr; 16(2):56–7

Role of hepatobiliary scintigraphy in management of postoperative bile leak into the lesser sac. Kumar R, et al. **Indian J Gastroenterol** 1995 Oct;14(4):149–50

Improvement of lactose digestion by humans following ingestion of unfermented acidophilus milk: influence of bile sensitivity, lactose transport, and acid tolerance of Lactobacillus acidophilus. Mustapha A, et al. **J Dairy Sci** 1997 Aug;80(8):1537–45

Case report: radiological and endoscopic management of bile leak following laparoscopic cholecystectomy. Sammak BM, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):34–8

Bile pulmonary embolism. **J Vasc Interv Radiol** 1996 Sep-Oct;7(5):715–6

Lumbar hernia: another rare complication of laparoscopic cholecystectomy [letter; comment] Kennedy RJ, et al. **Med J Aust** 1997 Feb 17;166(4):222. Comment on: Med J Aust 1996 Oct 7;165(7):373–4.

Hepatic and renal toxicity among patients ingesting sheep bile as an unconventional remedy for diabetes mellitus--Saudi Arabia, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Nov 1;45(43):941–3

Choledochal cyst misinterpreted as a biloma after a blunt abdominal trauma. Vanlangenhove P, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):496–8 (10 ref.)

Infections associated with biliary drains. Yu JL, et al. **Scand J Gastroenterol** 1996 Jul;31(7):625–30 (89 ref.)

Endoscopic retrograde cholangiopancreatography in the treatment of bile leaks and bile duct strictures after laparoscopic cholecystectomy. Aru GM, et al. **South Med J** 1997 Jul;90(7):705–8

Bile leakage following laparoscopic cholecystectomy [letter] Cohen RV, et al. **Surg Endosc** 1996 Nov;10(11):1116–7

Bile peritonitis due to a spontaneous perforation of the common bile duct: report of a case. Nomura T, et al. **Surg Today** 1996;26(10):822–4

[Repeat laparoscopy in the management of biliary leaks after laparoscopic cholecystectomy] Sefr R, et al. **Rozhl Chir** 1997 Mar;76(3):147–50 (Eng. Abstr.) **(Cze)**

[Primary biliary peritonitis without perforation in childhood: etiopathogenetic evaluations and 2 case reports] Burattini MF, et al. **G Chir** 1996 Oct;17(10):508–14 (Eng. Abstr.) **(Ita)**

CHEMISTRY

Characterization and quantification of rat bile phosphatidylcholine by electrospray-tandem mass spectrometry. Lehmann WD, et al. **Anal Biochem** 1997 Mar 1;246(1):102–10

Comparison of porcine urine and bile as matrices to screen for the residues of two sulfonamides using a semi-automated enzyme immunoassay. Fodey TL, et al. **Analyst** 1997 Feb;122(2):165–8

Sequential changes in biliary lipids and gallbladder ion transport during gallstone formation. Giurgiu DI, et al. **Ann Surg** 1997 Apr;225(4):382–90

Detection of mutated c-Ki-ras in the bile of patients with pancreatic cancer. Abbruzzese JL, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):795–801

Detection of occult liver metastases in colorectal cancer by measurement of biliary carcinoembryonic antigen. Novell F, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2743–6

In vivo metabolism of 24R,25-dihydroxyvitamin D3: structure of its major bile metabolite. Shimoyamada A, et al. **Biochim Biophys Acta** 1997 Jun 2;1346(2):147–57

Separation and characterization of monoglucuronides of vitamin D(3) and25-hydroxyvitamin D(3) in rat bile by high-performance liquid chromatography. Shimada K, et al. **Biol Pharm Bull** 1996 Apr;19(4):491–4

Structure determination of metabolites isolated from urine and bile after administration of AY4166, a novel D-phenylalanine-derivative hypoglycemic agent. Takesada H, et al. **Bioorg Med Chem** 1996 Oct; 4(10):1771–81

Identification in rat bile of glutathione conjugates of fluoromethyl 2,2-difluoro-1-(trifluoromethyl)vinyl ether, a nephrotoxic degradate of the anesthetic agent sevoflurane. Jin L, et al. **Chem Res Toxicol** 1996 Mar; 9(2):555–61

Lithogenicity of human bile is reduced by freezing and thawing. Konikoff FM, et al. **Clin Chim Acta** 1996 May 30;249(1-2):59–66

Effect of temperature on stability of eight components of porcine gallbladder bile. Chodash HB, et al. **Dig Dis Sci** 1997 Feb;42(2):273–8

Gallstone formation and gallbladder bile composition after colectomy in dogs. Noshiro H, et al. **Dig Dis Sci** 1996 Dec; 41(12):2423–32

Biliary interleukin-6 and tumor necrosis factor-alpha in patients undergoing endoscopic retrograde cholangiopancreatography. Rosen HR, et al. **Dig Dis Sci** 1997 Jun;42(6):1290–4

Biliary sludge: can ultrasound reliably detect the presence of crystals in bile? Wilkinson LS, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):999–1001

Detection of occult liver metastases by measurement of biliary carcinoembryonic antigen concentrations. Paul MA, et al. **Eur J Surg** 1996 Jun;162(6):483–8

Total protein content of human gallbladder bile: relation to cholesterol gallstone disease and effects of treatment with bile acids and aspirin. Sahlin S. **Eur J Surg** 1996 Jun; 162(6):463–9

Characterization of the cholesterol crystallization-promoting low-density particle isolated from human bile. de Bruijn MA, et al. **Gastroenterology** 1996 Jun;110(6):1936–44

Biliary manometry, bacterial characteristics, bile composition, and histologic changes fifteen to seventeen years after endoscopic sphincterotomy. Bergman JJ, et al. **Gastrointest Endosc** 1997 May;45(5):400–5

Obtaining contrast-free bile during ERCP [letter; comment] Misra SP, et al. **Gastrointest Endosc** 1997 Jan;45(1):110–1 . Comment on: Gastrointest Endosc 1996 Mar;43(3):231–2.

Cholesterol crystallisation in bile. Portincasa P, et al. **Gut** 1997 Aug;41(2):138–41 (79 ref.)

Sequential changes of bile contents in patients with obstructive jaundice from different etiologies. Chen CY, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):796–9

Influence of the gut microflora and of biliary constituents on morphological changes in the small intestine in obstructive jaundice. Quraishy MS, et al. **HPB Surg** 1996; 10(1):11–20

Does lipid infusion affect bile composition in humans? Rubin M, et al. **Isr J Med Sci** 1996 Dec;32(12):1308–13

Bile acid structure and regulation of biliary protein secretion and composition in man. Bozzoli M, et al. **Ital J Gastroenterol** 1996 Apr;28(3):176–7

Determination of gallbladder bile lithogenicity in patients with primary biliary cirrhosis. Fracchia M, et al. **Ital J Gastroenterol** 1996 Jun;28(5):255–60

Significance of bile analysis in drug-induced deaths. Agarwal A, et al. **J Anal Toxicol** 1996 Jan-Feb;20(1):61–3

Two-dimensional electrophoretic analysis of vesicular and micellar proteins of gallbladder bile. He C, et al. **J Chromatogr A** 1997 Jul 25;776(1):109–15

Narrow-bore liquid chromatography-tandem mass spectrometry with simultaneous radioactivity monitoring

for partially characterizing the biliary metabolites of an arginine fluoroalkyl ketone analog of D-MePhe-Pro-Arg, a potent thrombin inhibitor. Heath TG, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):281-9

Determination of a new non-narcotic analgesic, DA-5018, in plasma, urine and bile by high-performance liquid chromatography. Shim HJ, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):422-6

Characterization of monoglucuronides of vitamin D2 and 25-hydroxyvitamin D2 in rat bile using high-performance liquid chromatography-atmospheric pressure chemical ionization mass spectrometry. Shimada K, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):348-54

Possible role of hepatic bile mucus glycoprotein in development of intrahepatic gallstones. Akaishi S, et al. **J Gastroenterol** 1995 Dec;30(6):758-63

Deconjugation of bilirubin accelerates coprecipitation of cholesterol, fatty acids, and mucin in human bile--in vitro study. Higashijima H, et al. **J Gastroenterol** 1996 Dec; 31(6):828-35

Comparison of haptoglobin and apolipoprotein A-I on biliary lipid particles involved in cholesterol crystallization. Yamashita G, et al. **J Gastroenterol Hepatol** 1996 Aug; 11(8):738-45

Method for quantitative assessment of transformation of non-micellar cholesterol carriers in model bile systems. Yamashita Y, et al. **J Gastroenterol Hepatol** 1996 Sep; 11(9):864-9

Inducing cholesterol precipitation from pig bile with beta-cyclodextrin and cholesterol dietary supplementation. Juste C, et al. **J Hepatol** 1997 Mar;26(3):711-21

Monitoring cholesterol crystallization from lithogenic model bile by time-lapse density gradient ultracentrifugation. Konikoff FM, et al. **J Hepatol** 1997 Mar;26(3):703-10

Bile acid kinetics and biliary lipid composition in cystic fibrosis [see comments] Strandvik B, et al. **J Hepatol** 1996 Jul;25(1):43-8. Comment in: J Hepatol 1997 May;26(5):1156-7.

Quantifying vesicle/mixed micelle partitioning of phosphatidylcholine in model bile by using radiolabeled phosphatidylcholine species. Renooij W, et al. **J Lab Clin Med** 1996 Dec;128(6):561-7

Effects of legume consumption on serum cholesterol, biliary lipids, and sterol metabolism in humans. Duane WC. **J Lipid Res** 1997 Jun;38(6):1120-8

Complete mapping of crystallization pathways during cholesterol precipitation from model bile: influence of physical-chemical variables of pathophysiologic relevance and identification of a stable liquid crystalline state in cold, dilute and hydrophilic bile salt-containing systems. Wang DQ, et al. **J Lipid Res** 1996 Mar;37(3):606-30

Phenotypic characterization of Lith genes that determine susceptibility to cholesterol cholelithiasis in inbred mice: physical-chemistry of gallbladder bile. Wang DQ, et al. **J Lipid Res** 1997 Jul;38(7):1395-411

Diet-induced changes in liver and bile but not brain fatty acids can be predicted from differences in plasma phospholipid fatty acids in formula- and milk-fed piglets. Rioux FM, et al. **J Nutr** 1997 Feb;127(2):370-7

Characteristics of gallbladder bile of infants and children. Halpern Z, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug; 23(2):147-50

Effect of terminal ileal transposition on gallbladder bile composition following proctocolectomy. Hotokezaka M, et al. **J Surg Res** 1996 Jul 15;64(1):6-12

Measurement of lactate levels in serum and bile using proton nuclear magnetic resonance in patients with hepatobiliary diseases: its utility in detection of malignancies. Nishijima T, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):13-7

An improved ultracentrifugation method for the separation of cholesterol carriers in bile. Ayyad N, et al. **Lipids** 1996 Jun;31(6):657-60

The effects of dietary phospholipids enriched with phosphatidylethanolamine on bile and red cell membrane lipids in humans. Pakula R, et al. **Lipids** 1996 Mar; 31(3):295-303

Monoconjugated bilirubin as a possible factor in cholesterol gallstone pathogenesis. Lesma A, et al. **Minerva Chir** 1997 Jun;52(6):771-5

Comparison of mutagenic activity of bile between Chilean and Japanese female patients having cholelithiasis. Mano H, et al. **Mutat Res** 1996 Nov 4;371(1-2):73-7

Biliary excretion of glycyrrhizin in rats: kinetic basis for multiplicity in bile canalicular transport of organic anions. Shimamura H, et al. **Pharm Res** 1996 Dec;13(12):1833-7

Structural characterization of mono- and dihydroxylated metabolites of paclitaxel in rat bile using liquid chromatography/ion spray tandem mass spectrometry. Sottani C, et al. **Rapid Commun Mass Spectrom** 1997; 11(9):1025-32

Study of lithogenicity of bile among patients suffering from cholecystolithiasis and among patients not suffering from this disease. Kamocki Z, et al. **Rocz Akad Med Bialymst** 1995;40(2):267-75

Immunochemical and functional properties of biliary alpha-1-antitrypsin. Janciauskiene S, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):597-608

Variations in pigment and carbohydrate content of gallbladder bile affect accurate quantitation of total protein when using the fluorescamine method. Ginanni Corradini S, et al. **Scand J Gastroenterol** 1997 Apr;32(4):340-9

Sedimentation of biliary sludge: effect on composition of gallbladder bile from patients with cholesterol, mixed, or pigment stones. Jungst D, et al. **Scand J Gastroenterol** 1996 Mar;31(3):273-8

An analysis of mutagens in the contents of the biliary tract in pancreaticobiliary maljunction. Mizuno M, et al. **Surg Today** 1996;26(8):597-602

Iron deficiency enhances cholesterol gallstone formation. Johnston SM, et al. **Surgery** 1997 Aug;122(2):354-61; discussion 361-2

Analysis of bilirubin fraction in the bile for early diagnosis of acute rejection in living related liver transplantation. Akamatsu Y, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):145-54

Validation of endothelin (ET) immunoreactivity in human bile by HPLC. Comparison of biliary ET concentration in liver transplant recipients with values obtained during cholecystectomy. Kraus T, et al. **Transpl Int** 1996;9 Suppl 1:S135-9

Identification of major biliary and urinary metabolites of ecabapide in rats. Nakaoka M, et al. **Xenobiotica** 1996 Sep; 26(9):983-94

[An observation on nucleating activity of monoconjugated bilirubin (MCB) in model bile system] Wang RH, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):662-5 (Eng. Abstr.) **(Chi)**

[Free fatty acids in gallbladder bile] Wang W, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):659-61 (Eng. Abstr.) **(Chi)**

[Demonstration of zearalenone metabolites in bile of breeding sows with fertility disturbances] Meyer K, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jul-Aug; 110(7-8):281-3 (Eng. Abstr.) **(Ger)**

[On the use of cholisorb on the hepatic exocrine function in patients after cholecystectomy] Maksimov VA, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):37-40 (Eng. Abstr.) **(Rus)**

[The interrelation of bile micellization and lithogenicity] Susak IaM, et al. **Klin Khir** 1996;(11-12):15-6 **(Rus)**

[Establishing the presence of bile in stains] Fadeeva AA, et al. **Sud Med Ekspert** 1997 Jul-Sep;40(3):14-5 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Biliary tract cytology in specimens obtained by direct cholangiographic procedures: a study of 74 cases. de Peralta-Venturina MN, et al. **Diagn Cytopathol** 1996 Jun; 14(4):334-48

[Pancreatitis/pancreatic carcinoma--value of diagnostic procedures: ERCP and cytology] Riemann JF, et al. **Schweiz Rundsch Med Prax** 1997 Mar 4;86(10):401-3 **(Ger)**

DRUG EFFECTS

Effect of hyperglycaemia on the hepatic metabolism and excretion of xenobiotics. Fischer E, et al. **Acta Physiol Hung** 1995;83(4):363-72

Recombinant human hepatocyte growth factor facilitates biliary transport after hepatocyte transplantation in Eisai hyperbilirubinemic rats. Yamaguchi Y, et al. **Dig Dis Sci** 1997 Mar;42(3):522-8

The effects of ursodeoxycholic acid on serum and biliary noncholesterol sterols in patients with gallstones. Miettinen TE, et al. **Hepatology** 1997 Mar;25(3):514-8

Uncoupling of biliary lipid from bile acid secretion by formyl-methionyl-leucyl-phenylalanine in the rat. Mizuno K, et al. **Hepatology** 1996 Nov;24(5):1224-9

Nitric oxide donors stimulate bile flow and glutathione disulfide excretion independent of guanosine 3',5'-cyclic [corrected] monophosphate in the isolated perfused rat liver [published erratum appears in Hepatology 1997 Apr;25(4):1039] Trauner M, et al. **Hepatology** 1997 Feb; 25(2):263-9

Does lipid infusion affect bile composition in humans? Rubin M, et al. **Isr J Med Sci** 1996 Dec;32(12):1308-13

The effect of the hepatotoxic pyrrolizidine alkaloid, retrorsine, on bile composition in the rat in vivo. Yan CC, et al. **Proc West Pharmacol Soc** 1996;39:19-22

The effect of prostanoids on hepatic bile flow in dogs with normal liver and bile duct cell hyperplasia. Solomon H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Apr; 54(4):265-71

Colchicine and vinblastine prevent the piperonyl butoxide-induced increase in rat biliary output of alpha-tocopherol. Mustacich DJ, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):411-7

Secretion and composition of bile after human liver transplantation: studies on the effects of cyclosporine and tacrolimus. Ericzon BG, et al. **Transplantation** 1997 Jan 15;63(1):74-80

[Effects of somatostatin and glucagon on secretion of bile lipids in man] Nakamura T, et al. **Klin Med (Mosk)** 1996; 74(9):23-6 **(Rus)**

[The classification of weakly mineralized therapeutic waters by the biological response of bile secretion and urination functions using multivariate assessment] Lobasiuk BA, et al. **Lik Sprava** 1996 Mar-Apr;(3-4):65-8 (Eng. Abstr.) **(Rus)**

[Bile secretion and the nuclear transcriptional activity of rat liver cells under the action of bile acids] Masiuk AI, et al. **Fiziol Zh** 1997;43(1-2):101-8 (Eng. Abstr.) **(Ukr)**

ENZYMOLOGY

Purification of a newly identified alkaline sphingomyelinase in human bile and effects of bile salts and phosphatidylcholine on enzyme activity. Duan RD, et al. **Hepatology** 1997 Oct;26(4):823-30

Differential expression of the UGT1A locus in human liver, biliary, and gastric tissue: identification of UGT1A7 and UGT1A10 transcripts in extrahepatic tissue. Strassburg CP, et al. **Mol Pharmacol** 1997 Aug;52(2):212-20

beta-Glucuronidase in common duct bile, methodological aspects, variation of pH optima and relation to gallstones. Osnes T, et al. **Scand J Clin Lab Invest** 1997 Jul; 57(4):307-15

IMMUNOLOGY

Comparative studies of antimitochondrial autoantibodies in sera and bile in primary biliary cirrhosis. Nishio A, et al. **Hepatology** 1997 May;25(5):1085-9

Hepatobiliary transport of IgA in the golden Syrian hamster (Mesocricetus auratus). Vaerman JP, et al. **Immunol Lett** 1997 Jan;55(1):19-26

Characterization of complement C3, C4, and factor B molecules in human bile. Sumiyoshi K, et al. **J Gastroenterol** 1997 Apr;32(2):230-5

Manifestations of the local gastric immune response in gnotobiotic piglets infected with Helicobacter pylori. Krakowka S, et al. **Vet Immunol Immunopathol** 1996 Jul; 52(3):159-73

Serum and bile antibody responses (IgG and IgA) during subclinical Fasciola hepatica infection in sheep. Ferre I, et al. **Vet Parasitol** 1997 Feb;68(3):261-7

[The usefulness of determining carcinoembryonic antigen in the bile for the prognosis of the development of hepatic metastases following the resection of colorectal cancer (letter)] de Andrés García B, et al. **Med Clin (Barc)** 1997 Mar 15;108(10):396 **(Spa)**

METABOLISM

Changes in the biliary excretion of exogenous organic anions by streptozotocin-induced diabetes. Bojcsev S, et al. **Acta Physiol Hung** 1996;84(3):263-4

Metabolites of nuatigenin ((22S,25S)22,25-epoxy-3 beta, 26-dihydroxy-furost-5-ene) accumulate in the bile of rabbits fed oats. St. Pyrek J, et al. **Adv Exp Med Biol** 1996; 404:443-58

Effect of the pyrrolizidine alkaloid monocrotaline on taurine and sulfur amino acid metabolism in the rat liver. Yan CC, et al. **Adv Exp Med Biol** 1996;403:135-45

Adenosine nucleotides in bile. Chari RS, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G246-52

Newly synthesized cholesterol in human bile and plasma: quantitation by mass isotopomer distribution analysis. Empen K, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G367-73

Bidirectional transport of cholesterol between gallbladder epithelial cells and model bile. Hayashi A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G410-4

Progressive defect in biliary GSH secretion in streptozotocin-induced diabetic rats. Lu SC, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G374-82

Dynamic aspects of glutathione and nitric oxide metabolism in endotoxemic rats. Minamiyama Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G575-81

Endogenous carbon monoxide suppression stimulates bile acid-dependent biliary transport in perfused rat liver. Sano T, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1268-75

Biliary excretion of ciprofloxacin and piperacillin in the obstructed biliary tract. van den Hazel SJ, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2658-60

Assessment of biliary excretion of piperacillin-tazobactam in humans. Westphal JF, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1636-40

Influence of subchronic administration of oestradiol, ethinyloestradiol and oestradiol sulphamate on bile flow, bile acid excretion, and liver and biliary glutathione status in rats. Barth A, et al. **Arch Toxicol** 1997;71(7):443-9

Lack of biliary excretion of Cd linked to an inherent defect of the canalicular isoform of multidrug resistance protein (cMrp) does not abnormally stimulate accumulation of Cd in the Eisai hyperbilirubinemic (EHB) rat liver. Sugawara N, et al. **Arch Toxicol** 1997;71(5):336-9

Effect of withdrawal of pravastatin on biliary lipid composition in humans. Muraca M, et al. **Atherosclerosis** 1996 Jun;123(1-2):133-7

Interactions between organic anions, micelles and vesicles in model bile systems. Verkade HJ, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):917-23

Octoxynol presence in bear-bile. Jhon GJ, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):879-87

Taurolithocholate can inhibit the biliary discharge of lysosomes in the rat. Marinelli RA, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):155-60

Influence of bile salts on molecular interactions between sphingomyelin and cholesterol: relevance to bile formation and stability. van Erpecum KJ, et al. **Biochim Biophys Acta** 1997 Apr 21;1345(3):269-82

Organ distribution and biliary excretion of intravenously injected insulin-like growth factor-I in suckling rats. Kong W, et al. **Biol Neonate** 1997;71(4):239-50

Urinary and biliary metabolites of genistein in rats. Yasuda T, et al. **Biol Pharm Bull** 1996 Mar;19(3):413-7

BILE

Effect of dietary fats rich in lauric, myristic, palmitic, oleic or linoleic acid on plasma, hepatic and biliary lipids in cholesterol-fed hamsters. Trautwein EA, et al. **Br J Nutr** 1997 Apr;77(4):605–20

Post-natal changes in biliary lipids in suckling goat kids. Fernández JI, et al. **Br Vet J** 1996 Nov;152(6):673–82

Methotrexate is excreted into the bile by canalicular multispecific organic anion transporter in rats. Masuda M, et al. **Cancer Res** 1997 Aug 15;57(16):3506–10

Biliary electrolytes and enzymes in patients with and without gallstones. Ho KJ. **Dig Dis Sci** 1996 Dec;41(12):2409–16

Effects of ursodeoxycholate and its conjugates on biliary glutathione excretion in rats. Takikawa H, et al. **Dig Dis Sci** 1996 Oct;41(10):1953–8

Newer pathogenetic concepts in cholesterol gallstone formation: a unitary hypothesis. Holzbach RT. **Digestion** 1997;58 Suppl 1:29–32 (38 ref.)

Replacing 14C with stable isotopes in drug metabolism studies. Abramson FP, et al. **Drug Metab Dispos** 1996 Jul; 24(7):697–701

Biliary excretion and enterohepatic cycling of R- and S-flurbiprofen in the rat. Eeckhoudt SL, et al. **Drug Metab Dispos** 1997 Apr;25(4):428–30

Rôle of the bile in the elimination of dipropyl sulphone from the male rat. Nickson RM, et al. **Drug Metabol Drug Interact** 1996;13(2):145–53

Metabolites of chlorinated syringaldehydes in fish bile as biomarkers of exposure to bleached eucalypt pulp effluents. Brumley CM, et al. **Ecotoxicol Environ Saf** 1996 Apr; 33(3):253–60

Fish biliary polycyclic aromatic hydrocarbon metabolites estimated by fixed-wavelength fluorescence: comparison with HPLC-fluorescent detection. Lin EL, et al. **Ecotoxicol Environ Saf** 1996 Oct;35(1):16–23

Defective biliary copper excretion in Wilson's disease: the role of caeruloplasmin. Davis W, et al. **Eur J Clin Invest** 1996 Oct;26(10):893–901

The effect of vitamin C in high doses on plasma and biliary lipid composition in patients with cholesterol gallstones: prolongation of the nucleation time. Gustafsson U, et al. **Eur J Clin Invest** 1997 May;27(5):387–91

Effect of polysaccharide peptide (PSP) on in vivo sulphation and glucuronidation of paracetamol in the rat. Yeung JH, et al. **Eur J Drug Metab Pharmacokinet** 1995 Oct–Dec; 20(4):287–92

Hepatic canalicular membrane 1: The role of mdr2 P-glycoprotein in hepatobiliary lipid transport. Elferink RP, et al. **FASEB J** 1997 Jan;11(1):19–28 (59 ref.)

Nucleation of biliary cholesterol, arachidonate, prostaglandin E2, and glycoproteins in postmenopausal women. Marks JW, et al. **Gastroenterology** 1997 Apr;112(4):1271–6

Increased biliary group II phospholipase A2 and altered gallbladder bile in patients with multiple cholesterol stones. Shoda J, et al. **Gastroenterology** 1997 Jun;112(6):2036–47

The pronase resistance of cholesterol-nucleating glycoproteins in human bile. Zijlstra AI, et al. **Gastroenterology** 1996 Jun;110(6):1926–35

Solitary versus multiple gallstones: the importance of total biliary protein concentration and other factors. Tudyka J, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):638–44

Of plaques and stones: the SR-B1 (scavenger receptor class B, type 1). Arrese MA, et al. **Hepatology** 1997 Oct; 26(4):1072–4

Intestinal absorption and enterohepatic cycling of biliary iron originating from plasma non-transferrin-bound iron in rats. Brissot P, et al. **Hepatology** 1997 Jun;25(6):1457–61

APF/CBP, the small, amphipathic, anionic protein(s) in bile and gallstones, consists of lipid-binding and calcium-binding forms. Lafont H, et al. **Hepatology** 1997 May;25(5):1054–63

Effect of taurohyodeoxycholic acid on biliary lipid secretion in humans. Loria P, et al. **Hepatology** 1997 Jun; 25(6):1306–14

Effect of ileal autotransplantation on cholesterol, bile acids, and biliary lipids in pigs with proximal small bowel resection. Pakarinen M, et al. **Hepatology** 1997 Jun; 25(6):1315–22

Simultaneous determination of plasma mevalonate and 7alpha-hydroxy-4-cholesten-3-one levels in hyperlipoproteinemia: convenient indices for estimating hepatic defects of cholesterol and bile acid syntheses and biliary cholesterol supersaturation. Shoda J, et al. **Hepatology** 1997 Jan;25(1):18–26

Endotoxin impairs biliary glutathione and HCO3- excretion and blocks the choleretic effect of nitric oxide in rat liver. Trauner M, et al. **Hepatology** 1997 May;25(5):1184–91

Hepatobiliary excretion of cysteinyl leukotrienes in three experimental models of acute hepatic injury. Omar HM, et al. **Inflamm Res** 1996 Oct;45(10):519–23

Biliary excretion of polystyrene microspheres with covalently linked FITC fluorescence after oral and parenteral administration to male Wistar rats. Jani PU, et al. **J Drug Target** 1996;4(2):87–93

Serum and bile lipid levels in patients with and without gallstones. Tang WH. **J Gastroenterol** 1996 Dec;31(6):823–7

Modulation of hepatic content and biliary excretion of P-glycoproteins in hepatocellular and obstructive cholestasis in the rat. Accatino L, et al. **J Hepatol** 1996 Sep;25(3):349–61

Bile acid kinetics and biliary lipid composition in cystic fibrosis [letter; comment] Angelico M. **J Hepatol** 1997 May; 26(5):1156–7. Comment on: J Hepatol 1996 Jul;25(1):43–8.

Evidence for secretory coupling of phosphatidylcholine molecular species to cholesterol in rat bile. Berr F, et al. **J Hepatol** 1997 May;26(5):1069–78

Distinct immuno-localization of mucin and other biliary proteins in human cholesterol gallstones. de la Porte PL, et al. **J Hepatol** 1996 Sep;25(3):339–48

How does copper get into bile? New insights into the mechanism(s) of hepatobiliary copper transport. Dijkstra M, et al. **J Hepatol** 1996;24 Suppl 1:109–20 (108 ref.)

Novel orally active iron chelators (3-hydroxypyridin-4-ones) enhance the biliary excretion of plasma non-transferrin-bound iron in rats. Zanninelli G, et al. **J Hepatol** 1997 Jul;27(1):176–84

Hepatic transport and secretion of unesterified cholesterol in the rat is traced by the plant sterol, sitostanol. Robins SJ, et al. **J Lipid Res** 1996 Jan;37(1):15–21

Biliary excretion of biotin and biotin metabolites is quantitatively minor in rats and pigs. Zempleni J, et al. **J Nutr** 1997 Aug;127(8):1496–500

Inhibitory effect of pentobarbital on biliary excretion of diclofenac in a rat liver perfusion system. Fukuyama T, et al. **J Pharm Pharmacol** 1996 Jul;48(7):734–7

Alternative continuous infusion method for analysis of enterohepatic circulation and biliary excretion of cefixime in the rat. Yasui H, et al. **J Pharm Sci** 1994 Jun;83(6):819–23

Multispecific organic anion transporter is responsible for the biliary excretion of the camptothecin derivative irinotecan and its metabolites in rats. Chu XY, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):304–14

Temocaprilat, a novel angiotensin-converting enzyme inhibitor, is excreted in bile via an ATP-dependent active transporter (cMOAT) that is deficient in Eisai hyperbilirubinemic mutant rats (EHBR). Ishizuka H, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1304–11

Relationship between chemical structure and physicochemical properties of series of bulky organic cations and their hepatic uptake and biliary excretion rates. Proost JH, et al. **J Pharmacol Exp Ther** 1997 Aug; 282(2):715–26

Hepatobiliary excretion of bile acids and rose bengal in streptozotocin-induced and genetic diabetic rats. Stone JL, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):412–9

The utility of the bile-exteriorized rat as a source of reactive acyl glucuronides: studies with zomepirac. King AR, et al. **J Pharmacol Toxicol Methods** 1996 Nov;36(3):131–6

Biliary elimination of oral 2,4-dichlorophenoxyacetic acid and its metabolites in male and female Sprague-Dawley rats, B6C3F1 mice, and Syrian hamsters. Griffin RJ, et al. **J Toxicol Environ Health** 1997 Jul;51(4):401–13

Effects of dietary cholesterol and triglycerides on lipid concentrations in liver, plasma, and bile. Booker ML, et al. **Lipids** 1997 Feb;32(2):163–72

Oral acetylsalicylic acid induces biliary cholesterol secretion in the rat. Prigge WF, et al. **Lipids** 1997 Jul;32(7):753–8

Influence of phospholipid on bile salt binding to calcium hydroxyapatite and on the poisoning of nascent hydroxyapatite crystals. Okido M, et al. **Liver** 1996 Oct; 16(5):321–5

The use of 32P-postlabelling in studies of the nature and origin of DNA adducts formed by bile from patients with familial adenomatous polyposis and from normal patients. Scates DK, et al. **Mutat Res** 1997 Aug 1;378(1-2):113–25

Overexpression of the HDL receptor SR-BI alters plasma HDL and bile cholesterol levels. Kozarsky KF, et al. **Nature** 1997 May 22;387(6631):414–7

Relationship between gallbladder bile concentration and motility in conscious dogs: role of cholecystokinin. Muramatsu S, et al. **Peptides** 1997;18(1):111–8

Extensive biliary excretion of the model opioid peptide [D-PEN2,5] enkephalin in rats. Chen C, et al. **Pharm Res** 1997 Mar;14(3):345–50

Effects of organic anions on biliary glutathione excretion in rats. Takikawa H, et al. **Pharmacology** 1996 Aug; 53(2):114–22

Bile but not chyle lipoprotein is an important source of arachidonic acid for the rat small intestine. Melin T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Nov; 55(5):337–43

Determination of a new carbapenem antibiotic, DA-1131, in rat plasma, urine, and bile by column-switching high-performance liquid chromatography. Lee ED, et al. **Res Commun Mol Pathol Pharmacol** 1996 Nov;94(2):171–80

Alteration in the biliary and urinary excretion of acetaminophen metabolites by nephrotoxicants in rats. Seo KW, et al. **Res Commun Mol Pathol Pharmacol** 1997 Mar; 95(3):305–17

Effect of lactulose and fiber-rich diets on bile in relation to gallstone disease: an update. VanBerge-Henegouwen GP, et al. **Scand J Gastroenterol Suppl** 1997;222:68–71 (35 ref.)

Mechanisms and (patho)physiological significance of biliary cholesterol secretion. Kuipers F, et al. **Subcell Biochem** 1997;28:295–318 (106 ref.)

First-pass metabolism and biliary recirculation of droloxifene in the female Sprague-Dawley rat. Nickerson DF, et al. **Xenobiotica** 1997 Mar;27(3):257–64

In vivo and in vitro formation of morphinone from morphine in rat. Yamano S, et al. **Xenobiotica** 1997 Jul;27(7):645–56

[Extrahepatic bile duct movement and bile excretion during vomiting in dogs] Furukawa N, et al. **J Smooth Muscle Res** 1995 Dec;31(6):416–7 **(Jpn)**

MICROBIOLOGY

How does infected bile affect the postoperative course of patients undergoing laparoscopic cholecystectomy? Gold-Deutch R, et al. **Am J Surg** 1996 Sep;172(3):272–4

Effect of bile on Vibrio parahaemolyticus. Pace JL, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2372–7

Counts of bacteria and pyocites of choledochal bile in controls and in patients with gallstones or common bile duct stones with or without acute cholangitis. Csendes A, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):800–6

The effects of sterile or infected bile and dropped gallstones in abdominal adhesions and abscess formation. Soybir GR, et al. **Surg Endosc** 1997 Jul;11(7):711–3

Bacteriology of cholelithiasis in infants and children. Klin B, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):137–9

PARASITOLOGY

Viper's blood and bile. Zhang QY, et al. **Lancet** 1997 Jan 25;349(9047):250

PHYSIOLOGY

Combined effect of taurine and ox bile on biliary flow. Fukaya Y, et al. **Adv Exp Med Biol** 1996;403:93–7

Cirrhosis: a new, but expected cause of biliary sludge. Duchmann JC, et al. **Alcohol Clin Exp Res** 1997 Feb; 21(1):119–21

Use of 1H NMR spectroscopy (T2 relaxation times) to examine the effects of conjugated ursodeoxycholic acid on phospholipid fluidity of human gallbladder bile. Gilani SS, et al. **Biochem Soc Trans** 1997 Feb;25(1):23S

Membrane cholesterol content of cholesterol/phospholipid vesicles determines the susceptibility to both damage and protection by bile salts: implications for bile physiology. van de Heijning BJ, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):473–9

Mediators of exocrine pancreatic secretion induced by intraduodenal application of bile and taurodeoxycholate in man. Riepl RL, et al. **Eur J Med Res** 1997 Jan;2(1):23–9

The ability of bile to scavenge superoxide radicals and pigment gallstone formation in guinea pigs. Lin C, et al. **HPB Surg** 1996;10(2):73–6; discussion 76–7

Bile affects production of virulence factors and motility of Vibrio cholerae. Gupta S, et al. **Infect Immun** 1997 Mar; 65(3):1131–4

Gallbladder motility and lithogenicity of bile in patients with choledocholithiasis after endoscopic sphincterotomy. Dhiman RK, et al. **J Hepatol** 1997 Jun;26(6):1300–5

15 alpha-hydroxylation of a bile acid analogue, sodium 3 alpha,7 alpha-dihydroxy-25,26-bishomo-5 beta-cholane-26-sulfonate in the hamster. Mikami T, et al. **J Lipid Res** 1996 Jun;37(6):1189–97

Changes in the volume of evacuated bile associated with emesis in dogs. Furukawa N. **Jpn J Physiol** 1996 Apr; 46(2):177–81

Preoperative bile salt administration versus bile refeeding in obstructive jaundice. Tripathy U, et al. **Natl Med J India** 1996 Mar-Apr;9(2):66–9

Disrupted bile flow affects interdigestive small bowel motility in rats. Nieuwenhuijs VB, et al. **Surgery** 1997 Sep; 122(3):600–8

[Role of biliary proteins in pathogenesis of cholesterol gallstones] Secknus R, et al. **Z Gastroenterol** 1997 Jan; 35(1):41–6 (57 ref.) (Eng. Abstr.) **(Ger)**

[The effect of prostaglandin E1 on choleresis in the rat liver after relief of biliary obstruction] Ikeda T. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):821–7 (Eng. Abstr.) **(Jpn)**

[Bile viscosity study as a precursor to stone formation] Muntian SA, et al. **Klin Khir** 1996;(9):17–9 **(Rus)**

RADIATION EFFECTS

Whole-body gamma irradiation modifies bile composition in the pig. Scanff P, et al. **Radiat Res** 1997 Aug;148(2):175–80

RADIOGRAPHY

Analysis of biliary drainage in the caudate lobe of the liver: comparison of three-dimensional CT cholangiography and rotating cine cholangiography. Furukawa H, et al. **Radiology** 1997 Jul;204(1):113–7

SECRETION

Mechanisms of hepatic transport and bile secretion. Erlinger S. **Acta Gastroenterol Belg** 1996 Apr-Jun;59(2):159–62 (33 ref.)

Significance of taurine conjugation of bile acid in the biliary excretion of bilirubin. Yamao J, et al. **Adv Exp Med Biol** 1996;403:99–106

Large but not small intrahepatic bile ducts are involved in secretin-regulated ductal bile secretion. Alpini G, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1064–74

Dietary diosgenin attenuates subacute intestinal inflammation associated with indomethacin in rats. Yamada T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G355–64

Bile secretion in rats with indomethacin-induced intestinal inflammation. Yamada T, et al. **Am J Physiol** 1996 May; 270(5 Pt 1):G804–12

Biliary secretion in suckling goats: the effect of maternal milk and of a lamb milk replacer. Rueda A, et al. **Arch Physiol Biochem** 1996;104(2):239–45

Oxidative tyrosylation of high density lipoprotein impairs biliary sterol secretion in rats. Guertin F, et al. **Atherosclerosis** 1997 May;131(1):35–41

Biliary excretion of copper, manganese, and horseradish peroxidase in Eisai hyperbilirubinemic mutant rats (EHBRs) with defective biliary excretion of glutathione. Sugawara N, et al. **Biol Trace Elem Res** 1996 Oct–Nov; 55(1–2):181–9

Massive loss of bile from the nasobiliary tube. Hartleb M, et al. **Endoscopy** 1996 Jun;28(5):467

Prolonged enteral fast with parenteral nutrition decreases PCO2 and flow volume in portal vein: its association with bile secretion. Iwata T, et al. **Eur Surg Res** 1996; 28(2):146–53

Bombesin stimulates bicarbonate secretion from rat cholangiocytes: implications for neural regulation of bile secretion. Cho WK, et al. **Gastroenterology** 1997 Jul; 113(1):311–21

Character of a wheat amylase inhibitor preparation and effects on fasting human pancreaticobiliary secretions and hormones. Choudhury A, et al. **Gastroenterology** 1996 Nov; 111(5):1313–20

Regulation of endocytic–transcytotic pathways and bile secretion by phosphatidylinositol 3–kinase in rats. Folli F, et al. **Gastroenterology** 1997 Sep;113(3):954–65

Regrowth of the rat biliary tree after 70% partial hepatectomy is coupled to increased secretin–induced ductal secretion. Lesage G, et al. **Gastroenterology** 1996 Dec;111(6):1633–44

Neuropeptide Y in the dorsal vagal complex stimulates bicarbonate–dependent bile secretion in rats. Yoneda M, et al. **Gastroenterology** 1997 May;112(5):1673–80

Muscarinic acetylcholine receptor stimulation of biliary epithelial cells and its effect on bile secretion in the isolated perfused liver [corrected] [published erratum appears in Hepatology 1997 Aug;26(2):516] Elsing C, et al. **Hepatology** 1997 Apr;25(4):804–13

Effect of maternal cholestasis on biliary lipid and bile acid secretion in the infant rat. El–Mir MY, et al. **Hepatology** 1997 Sep;26(3):527–36

Transverse movement of spin–labeled phospholipids in the plasma membrane of a hepatocytic cell line (HepG2): implications for biliary lipid secretion. Müller P, et al. **Hepatology** 1996 Dec;24(6):1497–503

Stimulation of bile acid independent bile flow with bromo–cyclic guanosine monophosphate. St–Pierre MV, et al. **Hepatology** 1996 Dec;24(6):1487–91

Biliary secretion of anionic polypeptide fraction is not coupled to that of phospholipids and cholesterol in rats. Verkade HJ, et al. **Hepatology** 1997 Jan;25(1):38–47

Somatostatin reduces bile secretion and loss of bile constituents in patients with external biliary drainage. Andersen HB, et al. **HPB Surg** 1996;9(4):229–33

Bile secretion by the rat liver during synchronized regeneration. Sainz GR, et al. **Int J Exp Pathol** 1997 Apr; 78(2):109–16

Bile acid structure and regulation of biliary protein secretion and composition in man. Bozzoli M, et al. **Ital J Gastroenterol** 1996 Apr;28(3):176–7

Effect of taurohyodeoxycholic acid on biliary lipid secretion in man: preliminary report. Loria P, et al. **Ital J Gastroenterol** 1996 Sep;28(7):391–2

Review article: new insights into the mechanisms of hepatic transport and bile secretion. Erlinger S. **J Gastroenterol Hepatol** 1996 Jun;11(6):575–9 (34 ref.)

gamma–Interferon inhibits secretin–induced choleresis and cholangiocyte proliferation in a murine model of cirrhosis. Alpini G, et al. **J Hepatol** 1997 Aug;27(2):371–80

Inhibition of biliary bicarbonate secretion in ethinyl estradiol–induced cholestasis is not associated with impaired activity of the Cl–/HCO–3 exchanger in the rat. Alvaro D, et al. **J Hepatol** 1997 Jan;26(1):146–57

Vasopressin reduces taurochenodeoxycholate–induced hepatotoxicity by lowering the hepatocyte taurochenodeoxycholate content. Nakazawa T, et al. **J Hepatol** 1996 Nov;25(5):739–47

Increased biliary secretion of cysteinyl–leukotrienes in human bile duct obstruction. Richter L, et al. **J Hepatol** 1996 Nov; 25(5):725–32

Effect of some sulfonate analogues of ursodeoxycholic acid on biliary lipid secretion in the rat. Mikami T, et al. **J Lipid Res** 1996 Jun;37(6):1181–8

Uncoupling of biliary phospholipid and cholesterol secretion in mice with reduced expression of mdr2 P–glycoprotein. Oude Elferink RP, et al. **J Lipid Res** 1996 May; 37(5):1065–75

Bile secretion of cadmium, silver, zinc and copper in the rat. Involvement of various transport systems. Dijkstra M, et al. **Life Sci** 1996;59(15):1237–46

Effect of diethylmaleate on bile secretion and ultrastructural appearance of hepatocytes in normal rats and mutant rats with defective organic anion secretion. Dumont M, et al. **Liver** 1996 Feb;16(1):35–41

Hepatocellular transport and secretion of biliary phospholipids. Cohen DE. **Semin Liver Dis** 1996 May; 16(2):191–200 (68 ref.)

Role of vesicle–mediated transport pathways in hepatocellular bile secretion. Crawford JM. **Semin Liver Dis** 1996 May;16(2):169–89 (252 ref.)

Effects of cholestatic agents on the structure and function of bile canaliculi in neonatal rat hepatocytes in primary culture. Kono Y, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):9–18

Bile secretory function of the arterialized versus nonarterialized rat liver allograft. Chan FK, et al. **Transplantation** 1996 Dec 15;62(11):1657–63

[Porcine liver transplantation using warm ischemic grafts] Kimura J. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):475–87 (Eng. Abstr.) **(Jpn)**

[Biliary drainage test] Tani N. **Nippon Rinsho** 1997 Apr;55 Suppl 2:183–6 (4 ref.) **(Jpn)**

[A method of restoration of bile loss during acholia] Popov AN, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):192–5 **(Rus)**

[Endotoxemia in experimental acholia] Popov AN, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):101–2 **(Rus)**

[Opioid peptides modulate secretion of major determinants of bile flow] Rudin IV, et al. **Biull Eksp Biol Med** 1997 May;123(5):498–500 **(Rus)**

[The classification of weakly mineralized therapeutic waters by the biological response of bile secretion and urination functions using multivariate assessment] Lobasiuk BA, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):65–8 (Eng. Abstr.) **(Rus)**

[The molecular physiology of bile production] Masiuk AI. **Vestn Ross Akad Med Nauk** 1996;(1):17–21 (34 ref.) (Eng. Abstr.) **(Rus)**

[Bile secretion and the nuclear transcriptional activity of rat liver cells under the action of bile acids] Masiuk AI, et al. **Fiziol Zh** 1997;43(1–2):101–8 (Eng. Abstr.) **(Ukr)**

ULTRASONOGRAPHY

Is gallbladder sludge on transabdominal ultrasound an indication for cholecystectomy? [letter] Dill JE. **N Z Med J** 1997 Apr 11;110(1041):131

VIROLOGY

Viral RNA in duodenal bile of cirrhotic patients with chronic hepatitis C. Kuan SF, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):847–52

BILE ACIDS AND SALTS

Biliary dyskinesia and biliary crystals: a prospective study. Velanovich V. **Am Surg** 1997 Jan;63(1):69–74

Analysis of the solubilization of steroids by bile salt micelles. Cai X, et al. **J Pharm Sci** 1997 Mar;86(3):372–7

Bile acids in health and disease. Krag E, et al. **Scand J Gastroenterol Suppl** 1996;216:73–81

Bile acids in the assessment of hepatocellular function. Thompson MB. **Toxicol Pathol** 1996 Jan–Feb;24(1):62–71 (138 ref.)

[Comparative biochemical studies of cholanoids] Hoshita T. **Yakugaku Zasshi** 1996 Feb;116(2):71–90 (62 ref.) (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Smith–Lemli–Opitz syndrome: treatment with cholesterol and bile acids [letter] Ullrich K, et al. **Neuropediatrics** 1996 Apr;27(2):111–2

ANALYSIS

Bile acid measurements using a cholestyramine–coated TSM acoustic wave sensor. Chance JJ, et al. **Anal Chem** 1996 Sep 15;68(18):3104–11

Raised bile acid concentrations in SIDS lungs at necropsy. Hills BA, et al. **Arch Dis Child** 1997 Aug;77(2):120–3

Conjugated bile acids and intestinal flora during the preruminant stage in goat. Influence of a lamb milk replacer. Rueda A, et al. **Arch Physiol Biochem** 1996; 104(2):246–51

Bile acid concentrations in serum and duodenal aspirates of healthy preterm infants: effects of gestational and postnatal age. Boehm G, et al. **Biol Neonate** 1997;71(4):207–14

Effects of calcisorb on fecal bile acids and fatty acids in human volunteers. van Faassen A, et al. **Dig Dis Sci** 1996 Dec;41(12):2319–25

Bile acid concentrations in human and rat liver tissue and in hepatocyte nuclei. Setchell KD, et al. **Gastroenterology** 1997 Jan;112(1):226–35

The effects of ursodeoxycholic acid on serum and biliary noncholesterol sterols in patients with gallstones. Miettinen TE, et al. **Hepatology** 1997 Mar;25(3):514–8

Method for combined analysis of profiles of conjugated progesterone metabolites and bile acids in serum and urine of pregnant women. Meng LJ, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):11–26

Determination of fetal bile acids in biological fluids from neonates by gas chromatography–negative ion chemical ionization mass spectrometry. Murai T, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):13–22

Analysis of bile acids in colon residual liquid or fecal material in patients with colorectal neoplasia and control subjects. Kishida T, et al. **J Gastroenterol** 1997 Jun;32(3):306–11

Analysis of stereoisomeric C27–bile acids by high performance liquid chromatography with fluorescence detection. Kurosawa T, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1375–82

[Changes in the content of fats, neutral sterols, bile acids and carbonic acids with short chain in the feces from patients with chronic pancreatitis] Nakamura T, et al. **Klin Med (Mosk)** 1996;74(4):35–7 **(Rus)**

ANTAGONISTS & INHIBITORS

The influence of 2–hydroxypropyl–beta–cyclodextrin on the haemolysis induced by bile acids. Panini R, et al. **J Pharm Pharmacol** 1996 Jun;48(6):641–4

BIOSYNTHESIS

ACAT inhibitor HL–004 accelerates the regression of hypercholesterolemia in stroke–prone spontaneously hypertensive rats (SHRSP): stimulation of bile acid production by HL–004. Murakami S, et al. **Atherosclerosis** 1997 Aug;133(1):97–104

The human peroxisomal multifunctional protein involved in bile acid synthesis: activity measurement, deficiency in Zellweger syndrome and chromosome mapping. Novikov D, et al. **Biochim Biophys Acta** 1997 May 24;1360(3):229–40

Cholestyramine loading test to assess hepatic reserve for bile acid synthesis in patients with chronic liver diseases. Kuroki S, et al. **Gastroenterology** 1997 Apr;112(4):1277–83

Simultaneous determination of plasma mevalonate and 7alpha–hydroxy–4–cholesten–3–one levels in hyperlipoproteinemia: convenient indices for estimating hepatic defects of cholesterol and bile acid syntheses and biliary cholesterol supersaturation. Shoda J, et al. **Hepatology** 1997 Jan;25(1):18–26

Growth hormone and bile acid synthesis. Key role for the activity of hepatic microsomal cholesterol 7alpha–hydroxylase in the rat. Rudling M, et al. **J Clin Invest** 1997 May 1;99(9):2239–45

Circulating markers for biosynthesis of cholesterol and bile acids are not depressed in asymptomatic gallstone subjects. Muhrbeck O, et al. **J Hepatol** 1997 Jul;27(1):150–5

Measurement of bile acid synthesis by three different methods in hypertriglyceridemic and control subjects. Duane WC. **J Lipid Res** 1997 Jan;38(1):183–8

Bile acid synthesis: 7 alpha–hydroxylation of intermediates in the sterol 27–hydroxylase metabolic pathway. Lee C, et al. **J Lipid Res** 1996 Jun;37(6):1356–62

Formation of delta 22–bile acids in rats is not gender specific and occurs in the peroxisome. Rodrigues CM, et al. **J Lipid Res** 1996 Mar;37(3):540–50

Cholecystokinin increases bile acid synthesis with total parenteral nutrition but does not prevent stone formation. Dawes LG, et al. **J Surg Res** 1997 Jan;67(1):84–9

Bile acid synthesis and biliary hydrophobicity during obstructive jaundice in rats. Naito T, et al. **J Surg Res** 1996 Sep;65(1):70–6

Short–term effects of 3–hydroxy–3–methylglutaryl–CoA reductase inhibitor on cholesterol and bile acid synthesis in humans. Yoshida T, et al. **Lipids** 1997 Aug;32(8):873–8

Relationship between the serum concentration of 7 alpha–hydroxycholesterol and fecal bile acid excretion in humans. Hahn C, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):804–8

Effect of the hydroxyl group on the oxidative cleavage (beta–oxidation) of steroidal side chain for bile acid biosynthesis in rat liver homogenate. Kurosawa T, et al. **Steroids** 1997 Jun;62(6):474–81

[Production of free bile acids by bacterial deconjugation from conjugated bile acids derived from peptone in a medium] Morotomi M, et al. **Nippon Saikingaku Zasshi** 1996 Oct; 51(4):1043–7 (3 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

CCK–8 infusion increases plasma LMW alkaline phosphatase coincident with enterohepatic circulation of bile acids. Solter PF, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G381–8

Bile acid concentrations in serum and duodenal aspirates of healthy preterm infants: effects of gestational and postnatal age. Boehm G, et al. **Biol Neonate** 1997;71(4):207–14

HPLC–fluorescence determination of individual free and conjugated bile acids in human serum. Gatti R, et al. **Biomed Chromatogr** 1997 Jan–Feb;11(1):11–5

Performance characteristics of reversed–phase bonded silica cartridges for serum bile acid extraction. Rodrigues CM, et al. **Biomed Chromatogr** 1996 Jan–Feb;10(1):1–5

Biochemical assay of serum bile acids: methods and applications. Azer SA, et al. **Br J Biomed Sci** 1997 Jun; 54(2):118–32 (151 ref.)

Serum bile acids and ursodeoxycholic acid treatment in cystic fibrosis–related liver disease. O'Brien SM, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):477–83

Feedback regulation of bile acid synthesis measured by stable isotope kinetics in humans [see comments] Tauber G, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):23–31. Comment in: Eur J Gastroenterol Hepatol 1996 Jan;8(1):7–9.

Individual serum bile acids in apprentice spray painters in association with solvent exposure. Liu JJ, et al. **Int Arch Occup Environ Health** 1996;69(1):21–6

Assay for taurine conjugates of bile acids in serum by reversed–phase high–performance liquid chromatography. Paauw JD, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):171–5

Determination of 3–oxo–delta4– and 3–oxo–delta4,6–bile acids and related compounds in biological fluids of infants with cholestasis by gas chromatography–mass spectrometry. Suzuki M, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):11–21

Profiles of bile acids and progesterone metabolites in the urine and serum of women with intrahepatic cholestasis of pregnancy. Meng LJ, et al. **J Hepatol** 1997 Aug;

27(2):346–57

Ataxia associated with increased plasma concentrations of pristanic acid, phytanic acid and C27 bile acids but normal fibroblast branched-chain fatty acid oxidation. Clayton PT, et al. **J Inherit Metab Dis** 1996;19(6):761–8

Use of ursodeoxycholic acids in a dog with chronic hepatitis: effects on serum hepatic tests and endogenous bile acid composition. Meyer DJ, et al. **J Vet Intern Med** 1997 May–Jun;11(3):195–7

Fetal compromise associated with extreme fetal bile acidemia and maternal primary sclerosing cholangitis. Nolan DG, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):695–6

Effects of oral ursodeoxycholic acid in healthy cats on clinicopathological parameters, serum bile acids and light microscopic and ultrastructural features of the liver. Nicholson BT, et al. **Res Vet Sci** 1996 Nov;61(3):258–62

Furan-induced liver cell proliferation and apoptosis in female B6C3F1 mice. Fransson-Steen R, et al. **Toxicology** 1997 Mar 28;118(2–3):195–204

Qualitative patterns of biliary bile acids affect cyclosporine intestinal absorption in liver transplant recipients. Romagnoli J, et al. **Transplant Proc** 1996 Dec;28(6):3129–30

Pre- and postprandial total serum bile acid concentration following acute liver damage in dogs. Turgut K, et al. **Zentralbl Veterinarmed A** 1997 Mar;44(1):25–9

[Bile acid stimulation test with ceruletide] Rufer M, et al. **Tierarztl Prax** 1997 Jan;25(1):80–4 (Eng. Abstr.) **(Ger)**

[Bile acids in blood serum of women during normal pregnancy, early puerperium and in the neonate] Smolarczyk R, et al. **Ginekol Pol** 1996 Sep;67(9):443–6 (Eng. Abstr.) **(Pol)**

CHEMICAL SYNTHESIS

Chemical synthesis, structural analysis, and decomposition of N-nitroso bile acid conjugates. Dayal B, et al. **Bioorg Med Chem** 1996 Jun;4(6):885–90

CHEMISTRY

Study on in vitro stability of polymerized liposomes. Nishiya T, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan;24(1):43–50

Probing self assembly in biological mixed colloids by SANS, deuteration, and molecular manipulation. Hjelm RP, et al. **Basic Life Sci** 1996;64:175–90

Separation and detection of bile acid 3-glucuronides in human urine by liquid chromatography/electrospray ionization-mass spectrometry. Ikegawa S, et al. **Biomed Chromatogr** 1996 Nov–Dec;10(6):313–7

Diffusion of mixed micelles of bile salt–lecithin in amylopectin gels: a Fourier transform infrared microspectroscopy approach. Sun L, et al. **Biophys Chem** 1996 Oct 30;61(2–3):143–50

Comparison of the leishmanicidal activity of fungizone, liposomal AmB and amphotericin B incorporated into egg lecithin–bile salt mixed micelles. Ramos H, et al. **Drugs Exp Clin Res** 1995;21(6):211–6

Determination of molecular associations of some hydrophobic and hydrophilic bile acids by infrared and Raman spectroscopy. Lamcharfi E, et al. **Eur Biophys J** 1997;25(4):285–91

Bile acid transport systems as pharmaceutical targets. Kramer W, et al. **Eur J Clin Invest** 1996 Sep;26(9):715–32 (89 ref.)

Effects of bile salt hydrophobicity on crystallization of cholesterol in model bile. Van Erpecum KJ, et al. **Eur J Clin Invest** 1996 Jul;26(7):602–8

Bile salt activation of human cholesterol esterase does not require protein dimerisation. Loomes KM, et al. **FEBS Lett** 1997 Apr 1;405(3):369–72

Effect of taurohyodeoxycholic acid on biliary lipid secretion in man: preliminary report. Loria P, et al. **Ital J Gastroenterol** 1996 Sep;28(7):391–2

Capillary gas–liquid chromatography of acetate-methyl esters of bile acids. Batta AK, et al. **J Chromatogr A** 1997 Apr 4;766(1–2):286–91

Application of capillary electrophoresis of characterizing interactions between drugs and bile salts. Part I. Schwarz MA, et al. **J Chromatogr A** 1996 Sep 20;745(1–2):135–43

Effects of bile salt structure on chiral separations with mixed micelles of bile salts and polyoxyethylene ethers using micellar electrokinetic capillary chromatography. Clothier JG Jr, et al. **J Chromatogr B Biomed Appl** 1996 Aug 9; 683(1):37–45

Distribution of mixtures of bile salt taurine conjugates between lecithin-cholesterol vesicles and aqueous media: an empirical model. Heuman DM. **J Lipid Res** 1997 Jun; 38(6):1217–28

Complete mapping of crystallization pathways during cholesterol precipitation from model bile: influence of physical-chemical variables of pathophysiologic relevance and identification of a stable liquid crystalline state in cold, dilute and hydrophilic bile salt-containing systems. Wang DQ, et al. **J Lipid Res** 1996 Mar;37(3):606–30

Characterization of crystallization pathways during cholesterol precipitation from human gallbladder biles: identical pathways to corresponding model biles with three predominating sequences. Wang DQ, et al. **J Lipid Res** 1996 Dec;37(12):2539–49

Aggregation behavior of bile salts in aqueous solution. Coello A, et al. **J Pharm Sci** 1996 Jan;85(1):9–15

Solubilization of retinoids by bile salt/phospholipid aggregates. Li CY, et al. **Pharm Res** 1996 Jun;13(6):907–13

Characterization of interactions between bile salts and drugs by micellar electrokinetic capillary chromatography. Part I. Schwarz MA, et al. **Pharm Res** 1996 Aug;13(8):1174–80

Key fragmentations for the interpretation of mass spectra of disubstituted bile acids of bovine and porcine origin [letter] Bortolini O, et al. **Rapid Commun Mass Spectrom** 1997;11(12):1286–8

Relationship between structure and intestinal absorption of bile acids with a steroid or side-chain modification. Aldini R, et al. **Steroids** 1996 Oct;61(10):590–7

Synthesis of 3 alpha- and 3 beta-dimers from selected bile acids. Gouin S, et al. **Steroids** 1996 Nov;61(11):664–9

Synthesis of diastereomers of 3 alpha,7 alpha,12 alpha, 24-tetrahydroxy- and 3 alpha,7 alpha,24-trihydroxy-5 beta-cholestan- 26-oic acids and their structures. Kurosawa T, et al. **Steroids** 1996 Jul;61(7):421–8

DEFICIENCY

Large intravenous loads of bilirubin photoconversion products, in contrast to bilirubin, do not cause cholestasis in bile acid-depleted pigs. Bjørnbeth BA, et al. **Scand J Gastroenterol** 1997 Mar;32(3):246–53

DIAGNOSTIC USE

Hepatocyte-directed MR contrast agents. Can we take advantage of bile acids? Anelli PL, et al. **Acta Radiol Suppl** 1997;412:125–33

Intraoperative biliary tree imaging with cholyl-lysyl-fluorescein: an experimental study in the rabbit. Oddi A, et al. **Surg Laparosc Endosc** 1996 Jun; 6(3):198–200

ISOLATION & PURIFICATION

Effects of bile salt structure on chiral separations with mixed micelles of bile salts and polyoxyethylene ethers using micellar electrokinetic capillary chromatography. Clothier JG Jr, et al. **J Chromatogr B Biomed Appl** 1996 Aug 9; 683(1):37–45

METABOLISM

Significance of taurine conjugation of bile acid in the biliary excretion of bilirubin. Yamao J, et al. **Adv Exp Med Biol** 1996;403:99–106

Carrier-mediated transport of conjugated bile acids across the basolateral membrane of biliary epithelial cells. Benedetti A, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1416–24

Hydrolysis of membrane-bound liver alkaline phosphatase by GPI-PLD requires bile salts. Deng JT, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G655–63

Effect of cholestasis on regulation of cAMP synthesis by glucagon and bile acids in isolated hepatocytes. Matsuzaki Y, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G164–74

Effect of endotoxin on bile acid transport in rat liver: a potential model for sepsis-associated cholestasis. Moseley RH, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G137–46

Lack of evidence for vesicle trafficking of fluorescent bile salts in rat hepatocyte couplets. El-Seaidy AZ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G298–309

Ileal transposition into the upper jejunum affects lipid and bile salt absorption in rats. Tsuchiya T, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G681–91

Bile acid metabolism by colonic bacteria in continuous culture: effects of starch and pH. Christl SU, et al. **Ann Nutr Metab** 1997;41(1):45–51

Developmental pattern of 3-oxo-delta 4 bile acids in neonatal bile acid metabolism. Inoue T, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F52–6

Influence of subchronic administration of oestradiol, ethinyloestradiol and oestradiol sulphamate on bile flow, bile acid excretion, and liver and biliary glutathione status in rats. Barth A, et al. **Arch Toxicol** 1997;71(7):443–9

Bile acid malabsorption in HIV infected patients with chronic diarrhoea [see comments] Cramp ME, et al. **Aust N Z J Med** 1996 Jun;26(3):368–71. Comment in: Aust N Z J Med 1997 Jun;27(3):344.

SeHCAT tests for determination of bile acid malabsorption [letter; comment] Florin TH, et al. **Aust N Z J Med** 1997 Jun;27(3):344. Comment on: Aust N Z J Med 1996 Jun;26(3):368–71.

The binding of cholesterol and bile salts to recombinant rat liver fatty acid-binding protein. Thumser AE, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):729–33

Transbilayer movement of fully ionized taurine-conjugated bile salts depends upon bile salt concentration, hydrophobicity, and membrane cholesterol content. Donovan JM, et al. **Biochemistry** 1997 Sep 23; 36(38):11444–51

Concentration of unsulfated lithocholic acid in portal and systemic venous plasma: evidence that lithocholic acid does not down regulate the hepatic cholesterol 7 alpha-hydroxylase activity in gallstone patients. Einarsson K, et al. **Biochim Biophys Acta** 1996 Oct 7;1317(1):19–26

Multiple retinoids alter liver bile salt-independent retinyl ester-hydrolase activity, serum vitamin A and serum retinol-binding protein of rats. Ritter SJ, et al. **Biochim Biophys Acta** 1996 Dec 6;1291(3):228–36

Colorectal carcinoma: some reflections on bile flow through the terminal ileum [letter; comment] Stoneham M. **Br J Cancer** 1997;76(1):136–7. Comment on: Br J Cancer 1996 Jul;74(1):145–51.

Broiler chicken body weights, feed intakes, plasma lipid and small-intestinal bile acid concentrations in response to feeding of chitosan and pectin. Razdan A, et al. **Br J Nutr** 1997 Aug;78(2):283–91

Permeation enhancement of octreotide by specific bile salts in rats and human subjects: in vitro, in vivo correlations. Fricker G, et al. **Br J Pharmacol** 1996 Jan;117(1):217–23

Evidence of distinct amino acid and bile salt receptors in the olfactory system of the zebrafish, Danio rerio. Michel WC, et al. **Brain Res** 1997 Aug 1;764(1–2):179–87

Hepatic levels of bile acids in end-stage chronic cholestatic liver disease. Fischer S, et al. **Clin Chim Acta** 1996 Jul 30;251(2):173–86

Bile acid conjugation in early stage cholestatic liver disease before and during treatment with ursodeoxycholic acid. Fracchia M, et al. **Clin Chim Acta** 1996 Apr 30; 248(2):175–85

Ileal absorption of bile acids in patients with chronic cholestasis: SeHCAT test results and effect of ursodeoxycholic acid (UDCA). Chazouillères O, et al. **Dig Dis Sci** 1996 Dec;41(12):2417–22

Monohydroxy bile acid induced cholestasis: role of biotransformation. Yousef IM, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):167–81 (73 ref.)

Differential interaction of bile acids from patients with inborn errors of bile acid synthesis with hepatocellular bile acid transporters. Stieger B, et al. **Eur J Biochem** 1997 Feb 15; 244(1):39–44

Effect of fibre on bile acid metabolism by human faecal bacteria in batch and continuous culture. Fadden K, et al. **Eur J Cancer Prev** 1997 Apr;6(2):175–94

Bile acid transport systems as pharmaceutical targets. Kramer W, et al. **Eur J Clin Invest** 1996 Sep;26(9):715–32 (89 ref.)

Kinetics of primary bile acids in patients after orthotopic liver transplantation. Sauer P, et al. **Eur J Clin Invest** 1996 Nov;26(11):979–82

Effects of hemicolectomy on bile acid metabolism in relation to colon carcinogenesis in man. van Gorkom BA, et al. **Eur J Clin Invest** 1997 Jul;27(7):589–94

Inulin and oligofructose do not influence the absorption of cholesterol, or the excretion of cholesterol, Ca, Mg, Zn, Fe, or bile acids but increases energy excretion in ileostomy subjects. Ellegård L, et al. **Eur J Clin Nutr** 1997 Jan; 51(1):1–5

Giardia lamblia: evidence for carrier-mediated uptake and release of conjugated bile acids. Das S, et al. **Exp Parasitol** 1997 Oct;87(2):133–41

Bile acid transport across the hepatocyte canalicular membrane. Suchy FJ, et al. **FASEB J** 1997 Mar; 11(4):199–205 (41 ref.)

7 alpha-dehydroxylating bacteria enhance deoxycholic acid input and cholesterol saturation of bile in patients with gallstones. Berr F, et al. **Gastroenterology** 1996 Dec; 111(6):1611–20

Evidence for an ATP-dependent bile acid transport protein other than the canalicular liver ecto-ATPase in rats. Luther TT, et al. **Gastroenterology** 1997 Jul;113(1):249–54

Effect of ileal autotransplantation on cholesterol, bile acids, and biliary lipids in pigs with proximal small bowel resection. Pakarinen M, et al. **Hepatology** 1997 Jun; 25(6):1315–22

Cholesterogenesis, lipogenesis, cholesterol degradation to bile acids, and histopathology of the liver in LA/N-cp obese rats. Somanchi M, et al. **Hepatology** 1997 Jun;25(6):1451–6

Regulation of fecal bile acid excretion in male golden Syrian hamsters fed a cereal-based diet with and without added cholesterol. Turley SD, et al. **Hepatology** 1997 Apr; 25(4):797–803

Effect of ursodeoxycholic acid on hypertransaminasaemia and bile acid composition in patients undergoing bone marrow transplantation—a double-blind randomized control study. Clerici C, et al. **Ital J Gastroenterol** 1996 May;28(4):191–8

Regulation of cholesterol 7 alpha-hydroxylase by different effectors. Vlahcevic ZR. **Ital J Gastroenterol** 1996 Jul–Aug; 28(6):337–9 (18 ref.)

Altered bile acid metabolism related to atherosclerosis in alloxan diabetic rats. Uchida K, et al. **J Atheroscler Thromb** 1996;3(1):52–8

Sequencing and expression of a gene encoding a bile acid transporter from Eubacterium sp. strain VPI 12708. Mallonee DH, et al. **J Bacteriol** 1996 Dec;178(24):7053–8

Active efflux of bile salts by Escherichia coli. Thanassi DG, et al. **J Bacteriol** 1997 Apr;179(8):2512–8

Purification and characterization of a microsomal bile acid beta-glucosidase from human liver. Matern H, et al. **J Biol Chem** 1997 Apr 25;272(17):11261–7

A yeast ATP-binding cassette-type protein mediating ATP-dependent bile acid transport. Ortiz DF, et al. **J Biol Chem** 1997 Jun 13;272(24):15358–65

Reconstitution of bile acid transport in a heterologous cell by cotransfection of transporters for bile acid uptake and efflux. Sippel CJ, et al. **J Biol Chem** 1997 Jul 18; 272(29):18290–7

Purification and characterization of a neutral, bile salt-independent retinyl ester hydrolase from rat liver microsomes. Relationship To rat carboxylesterase ES-2. Sun G, et al. **J Biol Chem** 1997 Sep 26;272(39):24488–93

Complex genetic control of HDL levels in mice in response to an atherogenic diet. Coordinate regulation of HDL levels and bile acid metabolism. Machleder D, et al.

J Clin Invest 1997 Mar 15;99(6):1406–19

Primary bile acid malabsorption caused by mutations in the ileal sodium–dependent bile acid transporter gene (SLC10A2). Oelkers P, et al. **J Clin Invest** 1997 Apr 15; 99(8):1880–7

Disorder of bile acid metabolism in children with short bowel syndrome. Ohkohchi N, et al. **J Gastroenterol** 1997 Aug; 32(4):472–9

Current concepts of hepatic uptake, intracellular transport and biliary secretion of bile acids: physiological basis and pathophysiological changes in cholestatic liver dysfunction. Azer SA, et al. **J Gastroenterol Hepatol** 1996 Apr; 11(4):396–407 (154 ref.)

Bile acid kinetics and biliary lipid composition in cystic fibrosis [letter; comment] Angelico M. **J Hepatol** 1997 May; 26(5):1156–7. Comment on: J Hepatol 1996 Jul;25(1):43–8.

Adaptive regulation of hepatic bile salt transport: role of bile salt hydrophobicity and microtubule–dependent vesicular pathway. Arrese M, et al. **J Hepatol** 1997 Mar; 26(3):694–702

Do intracellular organelles have any role in transport of bile acids by hepatocytes? Erlinger S. **J Hepatol** 1996;24 Suppl 1:88–93 (33 ref.)

What we have learned about bumetanide and the concept of multispecific bile acid/drug transporters from the liver. Petzinger E, et al. **J Hepatol** 1996;24 Suppl 1:42–6 (33 ref.)

Bile acid kinetics and biliary lipid composition in cystic fibrosis [see comments] Strandvik B, et al. **J Hepatol** 1996 Jul;25(1):43–8. Comment in: J Hepatol 1997 May;26(5):1156–7.

Stimulation of bile acid 6 alpha–hydroxylation by rifampin. Wietholtz H, et al. **J Hepatol** 1996 Jun;24(6):713–8

Alteration of bile acid metabolism by cimetidine in healthy humans. Shindo K, et al. **J Investig Med** 1996 Oct; 44(8):462–9

Additive hypocholesterolemic effect of psyllium and cholestyramine in the hamster: influence on fecal sterol and bile acid profiles. Daggy BP, et al. **J Lipid Res** 1997 Mar;38(3):491–502

15 alpha–hydroxylation of a bile acid analogue, sodium 3 alpha,7 alpha–dihydroxy–25,26–bishomo–5 beta–cholane–26–sulfonate in the hamster. Mikami T, et al. **J Lipid Res** 1996 Jun;37(6):1189–97

Comparison of side chain oxidation of potential C27–bile acid intermediates between mitochondria and peroxisomes of the rat liver: presence of beta–oxidation activity for bile acid biosynthesis in mitochondria. Une M, et al. **J Lipid Res** 1996 Dec;37(12):2550–6

The canalicular multispecific organic anion transporter and conjugated hyperbilirubinemia in rat and man. Paulusma CC, et al. **J Mol Med** 1997 Jun;75(6):420–8 (106 ref.)

Dietary stearic acid reduces plasma and hepatic cholesterol concentrations without increasing bile acid excretion in cholesterol–fed hamsters. Hassel CA, et al. **J Nutr** 1997 Jun;127(6):1148–55

Abnormal bile acid metabolism and neonatal hemochromatosis: a subset with poor prognosis. Siafakas CG, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep; 25(3):321–6

SK&F 97426–A: a novel bile acid sequestrant with higher affinities and slower dissociation rates for bile acids in vitro than cholestyramine. Benson GM, et al. **J Pharm Sci** 1997 Jan;86(1):76–81

Postinfective diarrhoea and bile acid malabsorption. Niaz SK, et al. **J R Coll Physicians Lond** 1997 Jan–Feb;31(1):53–6

Cholesterol and bile acid metabolism after selective portal vein ligation. Makino I, et al. **J Surg Res** 1997 Mar; 68(2):91–8

Influence of cholesterol feeding on bile acid metabolism in young and aged germ–free rats. Uchida K, et al. **Jpn J Pharmacol** 1996 Jun;71(2):113–8

Effects of beta–lactam antibiotics on intestinal microflora and bile acid metabolism in rats. Hashimoto S, et al. **Lipids** 1996 Jun;31(6):601–9

Bile acid metabolism in young–old parabiotic rats. Uchida K, et al. **Lipids** 1997 Apr;32(4):383–90

Influence of phospholipid on bile salt binding to calcium hydroxyapatite and on the poisoning of nascent hydroxyapatite crystals. Okido M, et al. **Liver** 1996 Oct; 16(5):321–5

Faecal bile acid excretion during detoxification in patients with alcohol abuse. Ackehed G, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1205–10

Faecal steroids and colorectal carcinogenesis. Owen RW. **Scand J Gastroenterol Suppl** 1997;222:76–82 (31 ref.)

Sinusoidal (basolateral) bile salt uptake systems of hepatocytes. Hagenbuch B, et al. **Semin Liver Dis** 1996 May;16(2):129–36 (80 ref.)

Intracellular transport of small hydrophobic compounds by the hepatocyte. Zucker SD, et al. **Semin Liver Dis** 1996 May;16(2):159–67 (84 ref.)

Bile acids—what's new. Leveille–Webster C. **Semin Vet Med Surg (Small Anim)** 1997 Feb;12(1):2–9 (50 ref.)

Relationship between structure and intestinal absorption of bile acids with a steroid or side–chain modification. Aldini R, et al. **Steroids** 1996 Oct;61(10):590–7

7 beta–hydroxy bile alcohols: facile synthesis and 2D 1H NMR studies of 5 beta–cholestane–3 alpha, 7 beta, 12 alpha, 25–tetrol. Dayal B, et al. **Steroids** 1997 May;62(5):409–14

A novel enzyme system for the reduction of 3–oxo bile acids in human red blood cells. Goto J, et al. **Steroids** 1996 Jul; 61(7):416–20

Role of bile salts in colchicine–induced hepatotoxicity. Implications for hepatocellular integrity and function. Crocenzi FA, et al. **Toxicology** 1997 Aug 15;121(2):127–42

[Decreased transport of bile acids and organic anions as the etiology of cholestasis in endotoxinemia] Bolder U, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:571–7 (Eng. Abstr.) **(Ger)**

[Absorptive mechanism of vitamins, lipids and bile acid] Miura S, et al. **Nippon Naika Gakkai Zasshi** 1996 Jul 10; 85(7):1042–7 (5 ref.) **(Jpn)**

[Determination of fetal bile acids and related steroidal compounds and their profile in neonatal biological fluids] Tohma M. **Yakugaku Zasshi** 1996 Oct;116(10):753–75 (80 ref.) (Eng. Abstr.) **(Jpn)**

[Effect of microcrystalline cellulose on the excretion of total biliary acids in feces] Paniagua M, et al. **Acta Gastroenterol Latinoam** 1996;26(3):173–6 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Human bile acid kinetics: if a straight line justifies the means is the 'intestinal factor' confined to the small intestine? [editorial; comment] Murphy GM. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):7–9. Comment on: Eur J Gastroenterol Hepatol 1996 Jan;8(1):23–31.

Feedback regulation of bile acid synthesis measured by stable isotope kinetics in humans [see comments] Tauber G, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):23–31. Comment in: Eur J Gastroenterol Hepatol 1996 Jan;8(1):7–9.

Hepatobiliary excretion of bile acids and rose bengal in streptozotocin–induced and genetic diabetic rats. Stone JL, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):412–9

PHARMACOLOGY

Influence of bile salts on hepatic mdr2 P–glycoprotein expression. Frijters CM, et al. **Adv Enzyme Regul** 1996; 36:351–63 (38 ref.)

Taurine in the liver. The function of taurine conjugated with bile acids. Nakashima T, et al. **Adv Exp Med Biol** 1996; 403:85–92

Significance of taurine conjugation of bile acid in the biliary excretion of bilirubin. Yamao J, et al. **Adv Exp Med Biol** 1996;403:99–106

Bile salt–induced apoptosis of hepatocytes involves activation of protein kinase C. Jones BA, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1109–15

Identification of a bile acid response element in the cholesterol 7 alpha–hydroxylase gene CYP7A. Stroup D, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G508–17

Regulation of mdr2 P–glycoprotein expression by bile salts. Frijters CM, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):389–95

Use of 1H NMR spectroscopy (T2 relaxation times) to examine the effects of conjugated ursodeoxycholic acid on phospholipid fluidity of human gallbladder bile. Gilani SS, et al. **Biochem Soc Trans** 1997 Feb;25(1):23S

The modulation of protein kinase C by bile salts. Morgan WA, et al. **Biochem Soc Trans** 1997 Feb;25(1):75S

The effects of bile salts on the kinetic properties of enzymes used in the diagnosis of liver and kidney damage. Morgan WA, et al. **Biochem Soc Trans** 1997 Feb;25(1):76S

Effects of colipase and bile salts on the catalytic activity of human pancreatic lipase. A study using the oil drop tensiometer. Labourdenne S, et al. **Biochemistry** 1997 Mar 25;36(12):3423–9

Structural mechanisms of bile salt–induced growth of small unilamellar cholesterol–lecithin vesicles. Luk AS, et al. **Biochemistry** 1997 May 13;36(19):5633–44

Size of the catalytically active unit of rat hepatic carboxylester lipase in the presence and absence of bile salt. Harrison EH, et al. **Biochim Biophys Acta** 1997 Aug 16;1347(2–3):177–82

Influence of bile salts on molecular interactions between sphingomyelin and cholesterol: relevance to bile formation and stability. van Erpecum KJ, et al. **Biochim Biophys Acta** 1997 Apr 21;1345(3):269–82

Effects of dietary bile acids on formation of azoxymethane–induced aberrant crypt foci in F344 rats. Seraj MJ, et al. **Cancer Lett** 1997 May 1;115(1):97–103

Combined effect of a lecithin and a bile salt on pancreatic lipase activity. Lykidis A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):51–5

Bile acid inhibition of interferon activity in human lymphocytes: no evidence of oxidative stress. Podevin P, et al. **Eur J Clin Invest** 1997 Jun;27(6):491–6

Membrane cholesterol content of cholesterol/phospholipid vesicles determines the susceptibility to both damage and protection by bile salts: implications for bile physiology. van de Heijning BJ, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):473–9

Inhibitory effect of bile salts on gallbladder smooth muscle contractility in the guinea pig in vitro. Xu QW, et al. **Gastroenterology** 1997 May;112(5):1699–706

Bile acids with differing hydrophilic–hydrophobic properties do not influence cytokine production by human monocytes and murine Kupffer cells. Bergamini A, et al. **Hepatology** 1997 Apr;25(4):927–33

Purification of a newly identified alkaline sphingomyelinase in human bile and effects of bile salts and phosphatidylcholine on enzyme activity. Duan RD, et al. **Hepatology** 1997 Oct;26(4):823–30

Exocrine pancreatic secretion and plasma levels of cholecystokinin, pancreatic polypeptide, and somatostatin after single and combined intraduodenal application of different bile salts in man. Riepl RL, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):421–9

Effect of bile salts on in vitro gallbladder motility: preliminary study. Stolk MF, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):105–10

Hormone–sensitive lipase is structurally related to acetylcholinesterase, bile salt–stimulated lipase, and several fungal lipases. Building of a three–dimensional model for the catalytic domain of hormone–sensitive lipase. Contreras JA, et al. **J Biol Chem** 1996 Dec 6;271(49):31426–30

Survival of lactic acid bacteria in a dynamic model of the stomach and small intestine: validation and the effects of bile. Marteau P, et al. **J Dairy Sci** 1997 Jun;80(6):1031–7

Rat hepatoma L35 cells, a liver–differentiated cell line, display resistance to bile acid repression of cholesterol 7 alpha–hydroxylase. Trawick JD, et al. **J Lipid Res** 1996 Mar;37(3):588–98

Effects of polyunsaturated fatty acids on bile acid–induced gastric mucosal injury. Mercer DW, et al. **J Surg Res** 1996 Feb 15;61(1):44–50

Effect of bile acids on hepatobiliary transport of cisplatin by perfused rat liver. Villanueva GR, et al. **Pharmacol Toxicol** 1997 Mar;80(3):111–7

Large intravenous loads of bilirubin photoconversion products, in contrast to bilirubin, do not cause cholestasis in bile acid–depleted pigs. Bjlrnbeth BA, et al. **Scand J Gastroenterol** 1997 Mar;32(3):246–53

Effects of bile acids on iodide uptake and deoxyribonucleic acid synthesis in porcine thyroid cells in primary culture. Kanri R, et al. **Thyroid** 1996 Oct;6(5):467–74

Infusion of hydrophilic bile salts protects the liver from reperfusion injury in the rat. Hertl M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):386–7

[Bile secretion and the nuclear transcriptional activity of rat liver cells under the action of bile acids] Masiuk AI, et al. **Fiziol Zh** 1997;43(1–2):101–8 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

Endogenous carbon monoxide suppression stimulates bile acid–dependent biliary transport in perfused rat liver. Sano T, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1268–75

Transcriptional regulation of hepatic sterol 27–hydroxylase by bile acids. Vlahcevic ZR, et al. **Am J Physiol** 1996 Apr; 270(4 Pt 1):G646–52

Bile salt–induced cytotoxicity and ursodeoxycholate cytoprotection: in–vitro study in perifused rat hepatocytes. Pazzi P, et al. **Eur J Gastroenterol Hepatol** 1997 Jul; 9(7):703–9

Physiological control of cholecystokinin release and pancreatic enzyme secretion by intraduodenal bile acids. Koop I, et al. **Gut** 1996 Nov;39(5):661–7

Bile acid structure and regulation of biliary protein secretion and composition in man. Bozzoli M, et al. **Ital J Gastroenterol** 1996 Apr;28(3):176–7

Bile acids produce a generalized reduction of the catalytic activity of cytochromes P450 and other hepatic microsomal enzymes in vitro: relevance to drug metabolism in experimental cholestasis. Chen J, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):870–7

The role of bile salt composition in liver pathology of mdr2 (–/–) mice: differences between males and females. van Nieuwerk CM, et al. **J Hepatol** 1997 Jan;26(1):138–45

Digestive lipases of the newborn ferret: compensatory role of milk bile salt–dependent lipase. Sbarra V, et al. **Pediatr Res** 1996 Aug;40(2):263–8

Is there a causal connection between bile acids and colorectal cancer? Tocchi A, et al. **Surg Today** 1996;26(2):101–4

[Bile acids and immune regulation] Tanaka H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):693–9 (49 ref.) **(Jpn)**

[Influence of bile salts on the motor response of isolated ileum to acetylcholine, in rats] Duval–Araujo I, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):325–8 (Eng. Abstr.) **(Por)**

SECRETION

Combined effect of taurine and ox bile on biliary flow. Fukaya Y, et al. **Adv Exp Med Biol** 1996;403:93–7

Biliary secretion: future perspectives. Hofmann AF. **Digestion** 1997;58 Suppl 1:24–8 (2 ref.)

Changes in biliary lipid output after interruption of pravastatin treatment in humans. Hillebrant CG, et al. **Eur J Clin Invest** 1996 Dec;26(12):1160–5

Regulation of hepatocellular bile salt secretion: who shoots the messengers? Crawford JM. **Hepatology** 1996 Oct; 24(4):966–9

Effect of maternal cholestasis on biliary lipid and bile acid secretion in the infant rat. El–Mir MY, et al. **Hepatology** 1997 Sep;26(3):527–36

Uncoupling of biliary lipid from bile acid secretion by formyl–methionyl–leucyl–phenylalanine in the rat. Mizuno K, et al. **Hepatology** 1996 Nov;24(5):1224–9

Effect of some sulfonate analogues of ursodeoxycholic acid on biliary lipid secretion in the rat. Mikami T, et al. **J Lipid Res** 1996 Jun;37(6):1181–8

Fecal losses of sterols and bile acids induced by feeding rats

BILE ACIDS AND SALTS

guar gum are due to greater pool size and liver bile acid secretion. Moundras C, et al. **J Nutr** 1997 Jun; 127(6):1068–76

Increased fecal excretion of bile acids after ileal transplantation in the pig. Pakarinen M, et al. **Transplant Proc** 1996 Oct;28(5):2564–5

THERAPEUTIC USE

Bile acid therapy versus placebo before and after extracorporeal shock wave lithotripsy of gallbladder stones. The East–Danish Gallstone Study Group. **Aliment Pharmacol Ther** 1996 Aug;10(4):651–7

Treatment of Smith–Lemli–Opitz syndrome: results of a multicenter trial. Irons M, et al. **Am J Med Genet** 1997 Jan 31;68(3):311–4

Cholesterol and bile acid replacement therapy in children and adults with Smith–Lemli–Opitz (SLO/RSH) syndrome. Nwokoro NA, et al. **Am J Med Genet** 1997 Jan 31;68(3):315–21

Specific reduction of plasma large, light low–density lipoprotein by a bile acid sequestering resin, cholebine (MCI–196) in type II hyperlipoproteinemia. Homma Y, et al. **Atherosclerosis** 1997 Mar 21;129(2):241–8

Hepatoprotective effects of the shark bile salt 5beta–scymnol on acetaminophen–induced liver damage in mice. Macrides TA, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):31–7

Repeated bile acid therapy for the long–term management of cholesterol gallstones. Petroni ML, et al. **J Hepatol** 1996 Nov;25(5):719–24

Bile acid research and applications. Bateson MC. **Lancet** 1997 Jan 4;349(9044):5–6

Preoperative bile salt administration versus bile refeeding in obstructive jaundice. Tripathy U, et al. **Natl Med J India** 1996 Mar–Apr;9(2):66–9

Bile acids protect the liver against the cholestatic effect of large bilirubin loads. Villanger O, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1186–93

TOXICITY

Monohydroxy bile acid induced cholestasis: role of biotransformation. Yousef IM, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):167–81 (73 ref.)

Cytotoxicity of bile salts against biliary epithelium: a study in isolated bile ductule fragments and isolated perfused rat liver. Benedetti A, et al. **Hepatology** 1997 Jul;26(1):9–21

URINE

Urinary bile acids and peroxisomal bifunctional enzyme deficiency. Natowicz MR, et al. **Am J Med Genet** 1996 May 17;63(2):356–62

Analysis of bile acids and bile alcohols in urine by capillary column liquid chromatography–mass spectrometry using fast atom bombardment or electrospray ionization and collision–induced dissociation. Yang Y, et al. **Biomed Chromatogr** 1997 Jul–Aug;11(4):240–55

Determination of 3–oxo–delta4– and 3–oxo–delta4,6–bile acids and related compounds in biological fluids of infants with cholestasis by gas chromatography–mass spectrometry. Suzuki M, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):11–21

Profiles of bile acids and progesterone metabolites in the urine and serum of women with intrahepatic cholestasis of pregnancy. Meng LJ, et al. **J Hepatol** 1997 Aug; 27(2):346–57

BILE ALCOHOLS see **CHOLESTANOLS**

BILE CANALICULI

CYTOLOGY

Spontaneous formation of intercellular bile canaliculi and hybrid biliary–pancreatic canaliculi in co–culture of hepatocytes and exocrine pancreas cells from carp. Vogt G, et al. **Cell Tissue Res** 1997 Jul;289(1):191–4

Structural and functional features of bile canaliculi in adult rat hepatocyte spheroids. Yumoto AU, et al. **Liver** 1996 Feb;16(1):61–6

DRUG EFFECTS

Disruption of actin organization by cytochalasin D does not impair biliary secretion of organic anions in the rat. St–Pierre MV, et al. **Hepatology** 1997 Apr;25(4):970–5

ENZYMOLOGY

Ectonucleotidases, purine nucleoside transporter, and function of the bile canalicular plasma membrane of the hepatocyte. Che M, et al. **FASEB J** 1997 Feb;11(2):101–8 (86 ref.)

Increased hepatic Na,K–ATPase activity during hepatic regeneration is associated with induction of the beta1–subunit and expression on the bile canalicular domain. Simon FR, et al. **J Biol Chem** 1996 Oct 4; 271(40):24967–75

METABOLISM

Prolactin increases ATP–dependent taurocholate transport in canalicular plasma membrane from rat liver. Liu Y, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G46–53

ATP–dependent transport of beta–estradiol 17–(beta–D–glucuronide) in rat canalicular membrane vesicles. Vore M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G791–8

Lack of biliary excretion of Cd linked to an inherent defect of the canalicular isoform of multidrug resistance protein (cMrp) does not abnormally stimulate accumulation of Cd in the Eisai hyperbilirubinemic (EHB) rat liver. Sugawara N, et al. **Arch Toxicol** 1997;71(5):336–9

Methotrexate is excreted into the bile by canalicular multispecific organic anion transporter in rats. Masuda M, et al. **Cancer Res** 1997 Aug 15;57(16):3506–10

Analysis by confocal laser scanning microscopy imaging of undilated bile canaliculi F–actin staining in the hepatocytes of human extrahepatic cholestatic liver. Benköel L, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Jun;43(4):477–83

Hepatic canalicular membrane 4: expression of the multidrug resistance genes in the liver. Silverman JA, et al. **FASEB J** 1997 Apr;11(5):308–13 (55 ref.)

Bile acid transport across the hepatocyte canalicular membrane. Suchy FJ, et al. **FASEB J** 1997 Mar; 11(4):199–205 (41 ref.)

Functional expression of the rat liver canalicular isoform of the multidrug resistance–associated protein. Madon J, et al. **FEBS Lett** 1997 Apr 7;406(1–2):75–8

The rat canalicular conjugate export pump (Mrp2) is down–regulated in intrahepatic and obstructive cholestasis. Trauner M, et al. **Gastroenterology** 1997 Jul;113(1):255–64

Reconstitution of bile acid transport in a heterologous cell by cotransfection of transporters for bile acid uptake and efflux. Sippel CJ, et al. **J Biol Chem** 1997 Jul 18; 272(29):18290–7

Regulation of canalicular transport activities. Oude Elferink RP, et al. **J Hepatol** 1996;24 Suppl 1:94–9 (69 ref.)

ATP–dependent phosphatidylcholine translocation in rat liver canalicular plasma membrane vesicles. Nies AT, et al. **J Lipid Res** 1996 May;37(5):1125–36

The canalicular multispecific organic anion transporter and conjugated hyperbilirubinemia in rat and man. Paulusma CC, et al. **J Mol Med** 1997 Jun;75(6):420–8 (106 ref.)

Inhibitors of P–glycoprotein–mediated daunomycin transport in rat liver canalicular membrane vesicles. Kwon Y, et al. **J Pharm Sci** 1996 Sep;85(9):935–9

Hepatic uptake of choline in rat liver basolateral and canalicular membrane vesicle preparations. Kwon Y, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):774–81

The neurotoxin 1–methyl–4–phenylpyridinium is a substrate for the canalicular organic cation/H+ exchanger. Moseley RH, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):34–40

Kinetic analysis of the primary active transport of conjugated metabolites across the bile canalicular membrane: comparative study of S–(2,4–dinitrophenyl)–glutathione and 6–hydroxy–5,7–dimethyl–2–methylamino–4–(3–pyridylmethyl)benzothiazole glucuronide. Niinuma K, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):866–72

Characterization of the hepatic canalicular membrane transport of a model oligopeptide: ditekiren. Takahashi H, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):297–303

Structural and functional features of bile canaliculi in adult rat hepatocyte spheroids. Yumoto AU, et al. **Liver** 1996 Feb;16(1):61–6

PATHOLOGY

Reperfusion damage to the bile canaliculi in transplanted human liver. Cutrin JC, et al. **Hepatology** 1996 Nov; 24(5):1053–7

Bile acids protect the liver against the cholestatic effect of large bilirubin loads. Villanger O, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1186–93

PHYSIOLOGY

Biliary secretion: future perspectives. Hofmann AF. **Digestion** 1997;58 Suppl 1:24–8 (2 ref.)

Ectonucleotidases, purine nucleoside transporter, and function of the bile canalicular plasma membrane of the hepatocyte. Che M, et al. **FASEB J** 1997 Feb;11(2):101–8 (86 ref.)

Transmembrane translocation of phosphatidylcholines and biliary lipid secretion: evidence for "flippases" in the canalicular plasma membrane [published erratum appears in Hepatology 1997 Feb;25(2):505] Fuchs M, et al. **Hepatology** 1996 Dec;24(6):1546–8

Effects of cholestatic agents on the structure and function of bile canaliculi in neonatal rat hepatocytes in primary culture. Kono Y, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):9–18

SECRETION

Disruption of actin organization by cytochalasin D does not impair biliary secretion of organic anions in the rat. St–Pierre MV, et al. **Hepatology** 1997 Apr;25(4):970–5

ULTRASTRUCTURE

Bile canaliculi are defective in hepatic involvement of organ failure and recovery of liver function is due to their secondary regeneration. Douzinas EE, et al. **Intensive Care Med** 1996 Jun;22(6):553–8

[Bile canaliculi in chronic hepatitis (ultrastructural study)] Ferraraccio F, et al. **Pathologica** 1997 Feb;89(1):18–25 (Eng. Abstr.) **(Ita)**

BILE DUCT DISEASES

CHEMICALLY INDUCED

Trimethoprim–sulfamethoxazole–induced vanishing bile duct syndrome. Yao F, et al. **Am J Gastroenterol** 1997 Jan; 92(1):167–9

The effect of prostanoids on hepatic bile flow in dogs with normal liver and bile duct cell hyperplasia. Solomon H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Apr; 54(4):265–71

COMPLICATIONS

Biliary fistula in a patient with HIV cholangiopathy. Cacciarelli AG, et al. **Gastrointest Endosc** 1996 Sep; 44(3):345–8

Resolution of paraneoplastic bile duct paucity following successful treatment of Hodgkin's disease. Crosbie OM, et al. **Hepatology** 1997 Jul;26(1):5–8

Adenocarcinoid of the liver arising within an area of hamartoma with predominant bile duct component. Papadogiannakis N, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):145–51

Hepatitis C and bile duct loss. Goldin RD, et al. **J Clin Pathol** 1996 Oct;49(10):836–8

Hepatobiliary and coexisting pancreatic duct abnormalities in patients with inflammatory bowel disease. Heikius B, et al. **Scand J Gastroenterol** 1997 Feb;32(2):153–61

[Experience with endoscopic diagnosis and treatment of acute biliary pancreatitis] Zágoni T, et al. **Orv Hetil** 1997 Jun 8;138(23):1497–9 (46 ref.) (Eng. Abstr.) **(Hun)**

DIAGNOSIS

Imaging findings of pancreaticobiliary duct diseases with single–shot MR cholangiopancreatography. Reuther G, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):453–9

Magnetic resonance cholangiopancreatography versus ERCP: the "superbowl" of pancreaticobiliary imaging. Vingan HL. **Am J Gastroenterol** 1997 Aug;92(8):1396–8

Magnetic resonance–cholangiopancreatography in the diagnosis of biliopancreatic diseases. Lomanto D, et al. **Am J Surg** 1997 Jul;174(1):33–8

Investigation of the patient with abnormal liver function tests. Noack KB, et al. **Baillieres Clin Gastroenterol** 1997 Mar; 11(1):83–95 (49 ref.)

Non–invasive cholangio–pancreatography by breath–hold magnetic resonance imaging: preliminary results. Bearcroft PW, et al. **Clin Radiol** 1997 May;52(5):345–50

Magnetic resonance cholangiopancreatography. Bearcroft PW, et al. **Gut** 1997 Aug;41(2):135–7 (27 ref.)

A clinicopathologic study of primary cholesterol hepatolithiasis. Kondo S, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):478–86

Bile duct hamartomas: diagnostic problems and treatment. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):994–7

Spontaneous bile duct perforation associated with fatty liver in an infant. Shabib SM, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):466–9

Biliary hamartomas simulating multiple hepatic metastasis on imaging findings. Iha H, et al. **Kurume Med J** 1996; 43(3):231–5

Magnetic resonance imaging of the bile ducts. Soto JA, et al. **Semin Roentgenol** 1997 Jul;32(3):188–201 (72 ref.)

Magnetic resonance cholangiopancreatography of the biliary ducts: techniques, clinical applications, and limitations. Barish MA, et al. **Top Magn Reson Imaging** 1996 Oct; 8(5):302–11 (49 ref.)

[MR–Cholangiopancreatography as a single–shot projection: techniques and results of 200 examinations] Reuther G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):535–43 (Eng. Abstr.) **(Ger)**

[Cholangiopancreatography with magnetic resonance. Clinical use of a new "inversion–recovery" sequence] Liessi G, et al. **Radiol Med (Torino)** 1996 Sep;92(3):252–6 (Eng. Abstr.) **(Ita)**

[Obstructive jaundice: new development in the medical approach to the bile duct and pancreas. Discussion] Omata M, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10; 86(4):652–65 **(Jpn)**

[A case report of von Meyenburg complex] Mukoubayashi C, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May; 94(5):346–50 **(Jpn)**

[Endoscopic peroral pancreatico–cholangioscopy in the diagnosis of diseases of bile ducts and the pancreas] Kotovskiĭ AE, et al. **Khirurgiia (Mosk)** 1997;(3):58–60 (Eng. Abstr.) **(Rus)**

[Intraoperative cholangioscopy] Moguchev VM, et al. **Khirurgiia (Mosk)** 1997;(6):33–6 (Eng. Abstr.) **(Rus)**

[Intrahepatic lithiasis] Tombazzi C, et al. **G E N** 1995 Oct–Dec;49(4):286–91 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Ursodeoxycholic acid in the treatment of AIDS–associated cholangiopathy [letter; comment] Castiella A, et al. **Am J Med** 1997 Aug;103(2):170–1. Comment on: Am J Med 1995 Dec;99(6):600–3.

Biliary ascariasis--a letter to the editor [letter; comment] Shuaib IL, et al. **Med J Malaysia** 1995 Sep;50(3):284. Comment on: Med J Malaysia 1995 Mar;50(1):118–9.

ETIOLOGY

A case of intrahepatic stones with an anomalous intrahepatic portal venous system. Sakamoto E, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):497–500

Vanishing bile duct syndrome in drug–induced liver disease. Desmet VJ. **J Hepatol** 1997;26 Suppl 1:31–5 (50 ref.)

Intrahepatic cholestasis related to vanishing bile duct syndrome in Hodgkin's disease. Gottrand F, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):430–3

Infections associated with biliary drains. Yu JL, et al. **Scand J Gastroenterol** 1996 Jul;31(7):625–30 (89 ref.)

The bile duct in liver transplantation. Pretter PC, et al. **Semin Roentgenol** 1997 Jul;32(3):202–14 (70 ref.)

Bile duct injuries during laparoscopic cholecystectomy. Olsen D. **Surg Endosc** 1997 Feb;11(2):133–8

Bile duct splintage in liver transplantation: is it necessary? Ferraz–Neto BH, et al. **Transpl Int** 1996;9 Suppl 1:S185–7

Cytomegalovirus infection does not increase the risk of vanishing bile duct syndrome after liver transplantation. van den Berg AP, et al. **Transpl Int** 1996;9 Suppl 1:S171–3

[Pseudoaneurysm of the right hepatic artery with an arterio–biliary fistula] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):586–7 **(Ger)**

[Iatrogenic biliary lesions and stenosis] Latteri S, et al. **G Chir** 1997 Jan–Feb;18(1–2):61–4 (20 ref.) (Eng. Abstr.) **(Ita)**

[Hepatobiliary complications in chronic intestinal inflammatory disease] Bertrán X, et al. **Gastroenterol Hepatol** 1996 Jan;19(1):10–5 (68 ref.) **(Spa)**

PARASITOLOGY

Intraductal administration of albendazole for biliary ascariasis. van den Bogaerde JB, et al. **Am J Gastroenterol** 1997 Sep;92(9):1531–3

Case report: calcified pancreas and bile ducts from schistosomiasis. Fataar S, et al. **Br J Radiol** 1996 Nov; 69(827):1064–6

PATHOLOGY

Adenocarcinoid of the liver arising within an area of hamartoma with predominant bile duct component. Papadogiannakis N, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):145–51

Idiopathic adulthood ductopenia. Nakano I, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):411–5

Langerhans' cell granuloma confined to the bile duct. Finn LS, et al. **Pediatr Pathol Lab Med** 1997 May–Jun; 17(3):461–8

PHYSIOPATHOLOGY

Biliary malformation with renal tubular insufficiency in two male infants: third family report. Papadia F, et al. **Clin Genet** 1996 May;49(5):267–70

RADIOGRAPHY

The use of ERCP in the study of patients with hepatic echinococcosis before and after surgical intervention. Spiliadis C, et al. **Gastrointest Endosc** 1996 Jun;43(6):575–9

Imaging and interventional radiology in laparoscopic injuries to the gallbladder and biliary system. Slanetz PJ, et al. **Radiology** 1996 Dec;201(3):595–603 (40 ref.)

SURGERY

Transient healing of TIPS–induced biliovenous fistula by PTFE–covered stent graft. Spahr L, et al. **Dig Dis Sci** 1996 Nov;41(11):2229–32

Spontaneous perforation of the biliary tract in infancy: a series of 11 cases. Chardot C, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):341–6

Use of expandable metal stents for benign biliary strictures: need for balanced multidisciplinary approach. Rossi RL, et al. **Gastrointest Endosc** 1996 Jan;43(1):73–5 (20 ref.)

Snare beside–a–wire biliary stent exchange: a method that maintains access across biliary strictures. Tarnasky PR, et al. **Gastrointest Endosc** 1996 Aug;44(2):185–7

Transpapillary stenting of proximal biliary strictures: does biliary sphincterotomy reduce the risk of postprocedure pancreatitis? Tarnasky PR, et al. **Gastrointest Endosc** 1997 Jan;45(1):46–51 (27 ref.)

Benign biliary strictures and sclerosing cholangitis. Meenan J, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):127–38 (59 ref.)

Bile duct hamartomas: diagnostic problems and treatment. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):994–7

Spontaneous biliary perforation: does external drainage constitute adequate therapy? Spigland N, et al. **J Pediatr Surg** 1996 Jun;31(6):782–4

Endoscopic stenting in the management of biliary stones. Law NM, et al. **Singapore Med J** 1996 Oct;37(5):475–8

[Organization of a specialized center of surgery of liver, bile duct and pancreatic diseases in the regional public health system] Balashov GV. **Klin Khir** 1996;(10):41–2 **(Rus)**

THERAPY

ESWL experience in the therapy of difficult bile duct stones. Lomanto D, et al. **Dig Dis Sci** 1996 Dec;41(12):2397–403

Balloon dilation of the papilla via a forward–viewing endoscope: an aid to therapeutic endoscopic retrograde cholangiopancreatography in patients with Billroth–II gastrectomy. Dickey W, et al. **Endoscopy** 1996 Aug; 28(6):531–2

Endoscopic biliopancreatic balloon dilation. Tytgat GN, et al. **Endoscopy** 1996 May;28(4):367–71 (25 ref.)

Outpatient therapeutic ERCP: has the time come? [editorial; comment] Sherman S. **Gastrointest Endosc** 1997 Mar; 45(3):326–8. Comment on: Gastrointest Endosc 1997 Mar;45(3):225–30. Comment on: Gastrointest Endosc 1997 Mar;45(3):231–5.

Fluoroscopically guided laser lithotripsy versus extracorporeal shock wave lithotripsy for retained bile duct stones: a prospective randomised study. Jakobs R, et al. **Gut** 1997 May;40(5):678–82

[Long–term follow–up of non–operated patients with symptomatic and asymptomatic cholelithiasis] Csendes A, et al. **Rev Med Chil** 1996 Oct;124(10):1219–24 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Intraoperative ultrasonography of liver, bile ducts and pancreas. Cerri LM, et al. **Rev Paul Med** 1996 Jul–Aug; 114(4):1196–207

Ultrasound of the bile ducts. Mittelstaedt CA. **Semin Roentgenol** 1997 Jul;32(3):161–71 (44 ref.)

VETERINARY

Successful management of an iatrogenic biliary pseudocyst in a dog. Hunt GB, et al. **J Am Anim Hosp Assoc** 1997 Mar–Apr;33(2):166–70

Biliary cryptosporidiosis in two corn snakes (Elaphe guttata). Cimon KY, et al. **J Vet Diagn Invest** 1996 Jul;8(3):398–9

[Case report. Cholangiopathy and cholelithiasis and acute hepatic syndrome] Grabner A. **Tierarztl Prax** 1997 Jul; 25(4):317, 370–2 **(Ger)**

[Congenital bile duct cysts and liver fibrosis in a foal] Stocker H, et al. **Tierarztl Prax** 1996 Feb;24(1):44–7 (Eng. Abstr.) **(Ger)**

VIROLOGY

Ursodeoxycholic acid in the treatment of AIDS–associated cholangiopathy [letter; comment] Castiella A, et al. **Am J Med** 1997 Aug;103(2):170–1. Comment on: Am J Med 1995 Dec;99(6):600–3.

BILE DUCT NEOPLASMS

Cholangiocarcinoma. A spectrum of intrahepatic, perihilar, and distal tumors. Nakeeb A, et al. **Ann Surg** 1996 Oct; 224(4):463–73; discussion 473–5

Biliary papillomatosis. Lam CM, et al. **Br J Surg** 1996 Dec; 83(12):1715–6

BLOOD SUPPLY

Radiologically identifiable intratumoral portal vein in intrahepatic cholangiomas: a diagnostic pitfall. Kaneko K, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):445–7

CHEMICALLY INDUCED

Chlorinated hydrocarbon solvents and biliary–pancreatic cancer: report of three cases. Zarchy TM. **Am J Ind Med** 1996 Sep;30(3):341–2

Bile duct hamartoma occurring in association with long–term treatment with danazol. Elmadbouh HM, et al. **Br J Clin Pract** 1997 Apr–May;51(3):179–80

Malignant hepatic tumours associated with previous exposure to Thorotrast: four cases. Lee FI, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1121–4 (22 ref.)

CHEMISTRY

Alpha–smooth muscle actin–positive stromal cells in cholangiocarcinomas, hepatocellular carcinomas and metastatic liver carcinomas. Terada T, et al. **J Hepatol** 1996 Jun;24(6):706–12

Measurement of lactate levels in serum and bile using proton nuclear magnetic resonance in patients with hepatobiliary diseases: its utility in detection of malignancies. Nishijima T, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):13–7

Epidermal growth factor receptor immunoreactivity in gallbladder and extrahepatic biliary tract tumours. Lee CS, et al. **Pathol Res Pract** 1995 Nov;191(11):1087–91

COMPLICATIONS

Hepatolithiasis associated with cholangiocarcinoma. Su CH, et al. **Br J Surg** 1997 Jul;84(7):969–73

Cholangiocarcinoma in patients with opisthorchiasis. Watanapa P. **Br J Surg** 1996 Aug;83(8):1062–64

Percutaneous transhepatic intraductal biliary sonography for lymph node staging at 12.5 MHz in malignant bile duct obstruction: work in progress. Duda SH, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):133–8

The management of high–grade hilar strictures by endoscopic insertion of self–expanding metal endoprostheses. Peters RA, et al. **Endoscopy** 1997 Jan;29(1):10–6

Malignancy associated with hepatolithiasis. Chu KM, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):352–7

Case of bile duct carcinoma of the hepatic hilus with segmental obstructive cholangitis. Sakamoto E, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):501–5

Precut papillotomy using a needle knife: experience in 100 patients with malignant obstructive jaundice. Dhir V, et al. **Indian J Gastroenterol** 1997 Apr;16(2):52–3

Postoperative aggravation of hypercalcemia–leukocytosis syndrome in a case of squamous cell type cholangiocarcinoma [letter] Aizawa M, et al. **Intern Med** 1997 Mar;36(3):232

Primary sclerosing cholangitis and liver transplantation. Klompmaker IJ, et al. **Scand J Gastroenterol Suppl** 1996; 218:98–102 (42 ref.)

Plexiform neurofibroma: a rare cause of obstructive jaundice. Mitchell DI, et al. **West Indian Med J** 1995 Dec;44(4):146–7

[Transhepatic therapy of tumors of the biliary system] Petrtýl J. **Vnitr Lek** 1997 Mar;43(3):177–9 (Eng. Abstr.) **(Cze)**

[A case of degenerated diffuse biliary papillomatosis associated with cystic dilatation of the intrahepatic biliary ducts. Value of radiotherapy and review of the literature] Pillet G, et al. **Bull Cancer** 1996 Nov;83(11):957–63 (83 ref.) (Eng. Abstr.) **(Fre)**

[Cholangiocarcinoma: a rare cause of chylous ascites (letter)] Epeirier JM, et al. **Gastroenterol Clin Biol** 1995 Dec; 19(12):1062 **(Fre)**

[The penetration of a bile duct metal stent into the duodenal bulb as a late complication of combined stent/radiotherapy in Klatskin's tumor] Wingen M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):75–7 (10 ref.) **(Ger)**

[A case of double cancer, cholangiocellular and hepatocellular carcinoma associated with autoimmune hepatitis] Kanemasa H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):915–20 **(Jpn)**

DIAGNOSIS

Primary biliary tract malignant melanoma. Gates J, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):453–5

Choledochal cyst with adenocarcinoma in the cystically dilated intrahepatic bile duct. Tajiri K, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):190–3

Combined hepatocellular–cholangiocarcinoma. Cytologic findings in four cases. Dusenbery D. **Acta Cytol** 1997 May–Jun;41(3):903–9

Lymphoma of the extrahepatic biliary ducts in acquired immunodeficiency syndrome. Podbielski FJ, et al. **Am Surg** 1997 Sep;63(9):807–10

Hepatic pulsations in a patient with cholangiocarcinoma [letter] Marinella MA, et al. **Arch Intern Med** 1997 Jan 13;157(1):133, 135

Case report: biliary cystadenoma with mucin–secretion mimicking a simple hepatic cyst. Matsumoto S, et al. **Clin Radiol** 1997 Apr;52(4):316–8

Intrahepatic cholangiocarcinoma: the role of imaging in detection and staging. Kuszyk BS, et al. **Crit Rev Diagn Imaging** 1997;38(1):59–88 (49 ref.)

Adenosquamous carcinoma of the bile duct: cytologic features of brush specimens from two cases. Hughes JH, et al. **Diagn Cytopathol** 1996 Nov;15(4):322–4

Hepatobiliary cystadenocarcinoma without ovarian stroma and normal CA 19–9 levels. Unusually prolonged evolution. Horsmans Y, et al. **Dig Dis Sci** 1997 Jul; 42(7):1406–8

Obstructive jaundice associated with polycystic liver disease. Dmitrewski J, et al. **HPB Surg** 1996;10(2):117–20

Magnetic resonance cholangiography as sole pre–operative determinant of resectability in hilar cholangiocarcinoma. Govil S, et al. **Indian J Gastroenterol** 1997 Jul;16(3):103–4

Cystadenoma with mesenchymal stroma mistaken for hepatic hydatid cyst. Kapoor R, et al. **Indian J Gastroenterol** 1997 Apr;16(2):73–4

Intrahepatic cholangiocarcinoma: MRI and pathologic correlation in 14 patients. Vilgrain V, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):59–65

MR signal intensity changes in hepatic parenchyma with ductal dilation caused by intrahepatic cholangiocarcinoma. Yoshimitsu K, et al. **J Magn Reson Imaging** 1997 Jan–Feb; 7(1):136–41

Imaging of pediatric liver tumors. Buetow PC, et al. **Magn Reson Imaging Clin N Am** 1997 May;5(2):397–413 (50 ref.)

Multiloculated cystic liver lesions: radiologic–pathologic differential diagnosis. Singh Y, et al. **Radiographics** 1997 Jan–Feb;17(1):219–24

Hilar cholangiocarcinomas: T2–weighted spin–echo and gadolinium–enhanced FLASH MR imaging. Guthrie JA, et al. **Radiology** 1996 Nov;201(2):347–51

Primary extranodal non–Hodgkin lymphoma of the extrahepatic bile duct mimmicking Klatskin tumor. André SB, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):192–4

Biliary ascariasis and extrahepatic cholangiocarcinoma [letter] Toufeeq Khan TF, et al. **Singapore Med J** 1995 Oct;36(5):570

[Cathepsin B–like substance in the monitoring of chemically induced primary cholangiocarcinoma in swine] Dufek V, et al. **Vnitr Lek** 1996 Aug;42(8):551–4 (Eng. Abstr.) **(Cze)**

[27–year–old patient with asymptomatic cholestasis and liver tumor] Möllers M, et al. **Internist (Berl)** 1996 Sep; 37(9):931–5 **(Ger)**

[Pathologic liver findings? Hilar cholangiocarcinoma

(Klatskin tumor) with central calcinosis] Reuther G, et al. **Radiologe** 1997 Mar;37(3):255–7 **(Ger)**

[Carcinoma of the extrahepatic bile ducts] Cappelletti F, et al. **G Chir** 1996 Nov–Dec;17(11–12):589–92 (Eng. Abstr.) **(Ita)**

[Biliary cystadenoma. A report of 2 cases] Colecchia G, et al. **Minerva Chir** 1997 May;52(5):635–8 (12 ref.) (Eng. Abstr.) **(Ita)**

[Malignant bile duct diseases and jaundice] Mukai H, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):620–8 (5 ref.) **(Jpn)**

DRUG THERAPY

Long-term results of hepatic artery fluorodeoxyuridine and conformal radiation therapy for primary hepatobiliary cancers. Robertson JM, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 15;37(2):325–30

[Chemotherapy for primary bile duct cancer] Todoroki T. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):479–83 (20 ref.) (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Differential down-regulation of the UDP-glucuronosyltransferase 1A locus is an early event in human liver and biliary cancer. Strassburg CP, et al. **Cancer Res** 1997 Jul 15;57(14):2979–85

Transcriptional regulation of the N-acetylglucosaminyltransferase V gene in human bile duct carcinoma cells (HuCC-T1) is mediated by Ets-1. Kang R, et al. **J Biol Chem** 1996 Oct 25;271(43):26706–12

EPIDEMIOLOGY

Lifestyle factors including diet and cancer of the gallbladder and bile duct: a population-based case-control study in The Netherlands. Moerman CJ, et al.
Eur J Cancer Prev 1997 Apr;6(2):139–42

ETIOLOGY

Cross-sectional patterns of hepatobiliary abnormalities and possible precursor conditions of cholangiocarcinoma associated with Opisthorchis viverrini infection in humans. Elkins DB, et al. **Am J Trop Med Hyg** 1996 Sep; 55(3):295–301

Late development of bile duct cancer after sphincteroplasty: a ten- to twenty-two-year follow-up study. Hakamada K, et al. **Surgery** 1997 May;121(5):488–92

[Epidemiology and etiology of tumors of the biliary tract] Krechler T, et al. **Vnitr Lek** 1997 Mar;43(3):184–5 (Eng. Abstr.) **(Cze)**

[Cancer arising in choledochal cyst and management] Todani T, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):594–8 (30 ref.) (Eng. Abstr.) **(Jpn)**

[A case of intrahepatic cholangiocellular carcinoma associated with primary biliary cirrhosis] Dohmen K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):361–5 (19 ref.) **(Jpn)**

[Adenocarcinoma arising from gallbladder fosa with duodenal involvement 14 years after cholecystectomy: a case report] Shimizu K, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Nov;93(11):857–61 **(Jpn)**

[Neoplasms and congenital abnormalities of extrahepatic bile ducts] Nowicki A, et al. **Pol Merkuriusz Lek** 1996 Sep; 1(3):207–9 (26 ref.) (Eng. Abstr.) **(Pol)**

[Intrahepatic biloma. Conservative management with external drainage] García Urguellés X, et al.
Cir Pediatr 1996 Apr;9(2):85–7 (Eng. Abstr.) **(Spa)**

GENETICS

Monosomy 22 in a case of biliary adenofibroma [letter] Parada LA, et al. **Cancer Genet Cytogenet** 1997 Feb; 93(2):183–4

Mutations of K-ras but not p53 genes in biliary duct and pancreatic duct carcinomas induced in hamsters by cholecystoduodenostomy with dissection of the common duct followed by N-nitrosobis(2-oxopropyl)amine. Majima T, et al. **Cancer Lett** 1997 Sep 16;118(1):47–53

Clonal Epstein-Barr virus associated cholangiocarcinoma with lymphoepithelioma-like component. Hsu HC, et al. **Hum Pathol** 1996 Aug;27(8):848–50

MUC2 gene expression is found in noninvasive tumors but not in invasive tumors of the pancreas and liver: its close relationship with prognosis of the patients. Yonezawa S, et al. **Hum Pathol** 1997 Mar;28(3):344–52

METABOLISM

p53 protein expression and prognosis in gallbladder carcinoma and premalignant lesions. Ajiki T, et al.
Hepatogastroenterology 1996 May-Jun;43(9):521–6

Expression of blood group-related antigens in cholangiocarcinoma in relation to non-neoplastic bile ducts. Minato H, et al. **Histopathology** 1996 May; 28(5):411–9

Immunohistochemical detection of proliferating cell nuclear antigen and p53 expression in carcinoma of the extrahepatic bile duct. Suto T, et al. **Oncology** 1997 Sep-Oct; 54(5):407–13

Expression of Ki-67 by monoclonal antibody MIB-1 in carcinoma of the middle and lower bile duct. Yamada Y, et al. **Tohoku J Exp Med** 1995 Dec;177(4):375–7

Estimation of fat absorption with the 13C-trioctanoin breath test after pancreatoduodenectomy or pancreatic head resection. Miyakawa S, et al. **World J Surg** 1996 Oct; 20(8):1024–8; discussion 1028–9

MORTALITY

Prognostic factors in hilar cholangiocarcinoma [letter] Sahin M. **Ann Surg** 1997 Jul;226(1):107

What constitutes long-term survival after surgery for hilar cholangiocarcinoma? Klempnauer J, et al. **Cancer** 1997 Jan 1;79(1):26–34 (50 ref.)

Factors influencing survival after hepatectomy for peripheral cholangiocarcinoma. Jan YY, et al.
Hepatogastroenterology 1996 May-Jun;43(9):614–9

Experience with distal bile duct cancers in U.S. Veterans Affairs hospitals: 1987–1991. Wade TP, et al.
J Surg Oncol 1997 Mar;64(3):242–5

PATHOLOGY

Metastatic cholangiocarcinoma presenting as ovarian cancer: a rare Krukenberg tumor. Sharma P, et al.
Am J Gastroenterol 1997 Mar;92(3):531–3

The mode of lymphatic spread in carcinoma of the bile duct. Kurosaki I, et al. **Am J Surg** 1996 Sep;172(3):239–43

Leptomeningeal carcinomatosis: a sequela of cholangiocarcinoma. Huffman JL, et al. **Am Surg** 1997 Apr; 63(4):310–3

Spontaneous rupture of hepatobiliary cystadenoma: a case report. Chang MS, et al. **Chang Keng I Hsueh** 1995 Dec; 18(4):392–7

Biliary stricture due to hepatocellular carcinoma: diagnosis by bile duct brushing cytology. Dusenbery D.
Diagn Cytopathol 1997 Jan;16(1):55–6

Bile duct brushings cytology: potential pitfalls in diagnosis. Kocjan G, et al. **Diagn Cytopathol** 1997 Apr;16(4):358–63

Subcutaneous implantation metastasis of a cholangiocarcinoma of the bile duct after percutaneous transhepatic biliary drainage (PTBD). Loew R, et al.
Eur Radiol 1997;7(2):259–61

A prospective evaluation of cytology from biliary strictures. Mansfield JC, et al. **Gut** 1997 May;40(5):671–7

Argyrophilic nucleolar organizer regions (AgNOR) of resected intrahepatic cholangiocellular carcinomas. Hayashi H, et al. **Hepatogastroenterology** 1995 Sep-Oct; 42(5):440–4

Adenosquamous carcinoma with different morphologic and histologic components arising from the intrahepatic bile duct: report of a case. Ochiai T, et al.
Hepatogastroenterology 1996 May-Jun;43(9):663–6

Intrahepatic cholangiocarcinoma presenting intrabile duct tumor growth: report of a case. Sano T, et al.
Hepatogastroenterology 1996 May-Jun;43(9):667–70

Hepatic recurrence of cholangiolocellular carcinoma: report of a case. Yamamoto M, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):1046–50

Hepatocytic phenotypes induced in sarcomatous cholangiocarcinoma cells treated with 5-azacytidine. Enjoji M, et al. **Hepatology** 1997 Aug;26(2):288–94

Bcl-2 is overexpressed and alters the threshold for apoptosis in a cholangiocarcinoma cell line. Harnois DM, et al.
Hepatology 1997 Oct;26(4):884–90

Mucinous cholangiocarcinoma: an unusual complication of hepatolithiasis and recurrent pyogenic cholangitis. Chow LT, et al. **Histopathology** 1997 May;30(5):491–4

Clonal Epstein-Barr virus associated cholangiocarcinoma with lymphoepithelioma-like component. Hsu HC, et al. **Hum Pathol** 1996 Aug;27(8):848–50

Double cancers of the gallbladder and bile duct associated with anomalous choledochopancreatic duct junction. Nakao A, et al. **J Gastroenterol** 1997 Feb;32(1):110–3 (12 ref.)

Case report: intrahepatic cholangiocarcinoma with rhabdoid transformation. Honda M, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):771–4

Heterogeneity of the "oval-cell" response in the hamster liver during cholangiocarcinogenesis following Clonorchis sinensis infection and dimethylnitrosamine treatment. Lee JH, et al. **J Hepatol** 1997 Jun;26(6):1313–23

A human combined hepatocellular and cholangiocarcinoma cell line (KMCH-2) that shows the features of hepatocellular carcinoma or cholangiocarcinoma under different growth conditions. Yano H, et al. **J Hepatol** 1996 Apr;24(4):413–22

Three-dimensional reconstruction of perineural invasion in carcinoma of the extrahepatic bile ducts. Maxwell P, et al. **J Pathol** 1996 Oct;180(2):142–5

Synchronous primary tumors of the extrahepatic bile duct and gallbladder. Kurosaki I, et al. **J Surg Oncol** 1997 Aug; 65(4):258–62

Primary intrahepatic biliary cystadenomatous tumors. Tsiftsis D, et al. **J Surg Oncol** 1997 Apr;64(4):341–6

Intrahepatic cholangiocarcinoma presenting intrabile duct extension: clinicopathologic study of five resected cases. Yamamoto J, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):18–21

Extrahepatic bile duct hepatocellular carcinoma without primary hepatic parenchymal lesions--a case report. Cho HG, et al. **Korean J Intern Med** 1996 Jun;11(2):169–74

A combined hepatocellular/cholangiocellular carcinoma with sarcomatoid features. Papotti M, et al. **Liver** 1997 Feb; 17(1):47–52

Silver-binding nucleolar organizer regions in hepatolithiasis and bile duct cancer. Ker CG.
Proc Natl Sci Counc Repub China B 1997 Apr;21(2):43–8

Forceps biopsy and brush cytology during endoscopic retrograde cholangiopancreatography for the diagnosis of biliary stenoses. Schoefl R, et al. **Scand J Gastroenterol** 1997 Apr;32(4):363–8

Ultrastructural characteristics of liver fluke associated human cholangiocarcinoma cell lines. Sriurairatana S, et al.
Southeast Asian J Trop Med Public Health 1996 Mar; 27(1):57–62

Prognostic factors and management of carcinomas of the gallbladder and extrahepatic bile ducts. Lee RG, et al.
Surg Oncol Clin N Am 1997 Jul;6(3):639–59 (76 ref.)

Prognostic significance of proliferative cell nuclear antigen in carcinoma of the extrahepatic bile duct. Nishida T, et al. **World J Surg** 1997 Jul-Aug;21(6):634–9

[The role of urokinase type plasminogen activator in invasion of bile duct carcinoma] Wang S, et al.
Chung Hua I Hsueh Tsa Chih 1996 Aug;76(8):594–6 (Eng. Abstr.) **(Chi)**

[Cancer of the extrahepatic bile ducts. Clinical experience and anatomic/surgical considerations] La Greca G, et al. **Minerva Chir** 1997 Jan-Feb;52(1-2):33–8 (Eng. Abstr.) **(Ita)**

[Experimental induction of biliary tract carcinoma associated with proliferative cholangitis in Syrian hamster] Arisato H. **Hokkaido Igaku Zasshi** 1996 Sep;71(5):623–36 (Eng. Abstr.) **(Jpn)**

[An investigation of the mode of local spreading of biliary tract carcinoma to microvascular and neural structure] Takahashi M. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):449–62 (Eng. Abstr.) **(Jpn)**

[Mode of spreading and biological behavior in bile duct carcinoma] Takimoto A, et al.
Nippon Geka Gakkai Zasshi 1997 May;98(5):472–8 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical pathology of cholangiocarcinoma (intrahepatic bile duct cancer)] Yamamoto M. **Nippon Geka Hokan** 1995 Nov 1;64(6):129–30 **(Jpn)**

RADIOGRAPHY

Radiologic features of papillary adenoma and papillomatosis of the biliary tract. Kawakatsu M, et al.
Abdom Imaging 1997 Jan-Feb;22(1):87–90

Carcinosarcoma of the extrahepatic bile ducts: cholangiographic and CT appearance. Loud PA, et al.
Abdom Imaging 1997 Jan-Feb;22(1):85–6

Role of ERCP in the diagnosis of intraductal papillary mucinous neoplasms. Pavone E, et al.
Am J Gastroenterol 1997 May;92(5):887–90

Case report: malignant transformation of biliary cystadenoma with mesenchymal stroma: documentation by CT. Matsuoka Y, et al. **Clin Radiol** 1997 Apr;52(4):318–21

Image of the month. Intrahepatic biliary cystadenocarcinoma with hepatic metastases and peritoneal dissemination. Lazaridis KN, et al. **Gastroenterology** 1997 Jul;113(1):6, 367

Intrahepatic biliary cystadenoma demonstrated by intraoperative cholangiography. Hanazaki K.
Hepatogastroenterology 1996 Jul-Aug;43(10):1024–8

Combined hepatocellular and cholangiocarcinoma: correlation between CT findings and clinicopathological features. Fukukura Y, et al. **J Comput Assist Tomogr** 1997 Jan-Feb;21(1):52–8

Liver metastases from colon cancer with intra-bile duct tumor growth: radiologic features. Jinzaki M, et al.
J Comput Assist Tomogr 1997 Jul-Aug;21(4):656–60

Peripheral cholangiocarcinoma of the liver: two-phase spiral CT findings. Kim TK, et al. **Radiology** 1997 Aug; 204(2):539–43

Cholangiocarcinoma: delayed CT contrast enhancement patterns. Lacomis JM, et al. **Radiology** 1997 Apr; 203(1):98–104

[Computerized tomography differentiation of hepatocellular carcinoma and cholangiocellular tumors] Zwicker C, et al. **Aktuelle Radiol** 1997 Mar;7(2):74–8 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

Intraluminal brachytherapy in the treatment of bile duct carcinomas. Leung JT, et al. **Australas Radiol** 1997 May; 41(2):151–4

IORT of carcinoma of the extrahepatic bile ducts. Willborn K, et al. **Front Radiat Ther Oncol** 1997;31:173–6

Severe radiation-induced liver disease following localized radiation therapy for biliopancreatic carcinoma: activation of hepatic stellate cells as an early event. Sempoux C, et al. **Hepatology** 1997 Jul;26(1):128–34

Long-term results of hepatic artery fluorodeoxyuridine and conformal radiation therapy for primary hepatobiliary cancers. Robertson JM, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 15;37(2):325–30

Biliary tree malignancies: the University of Minnesota experience. Lee CK, et al. **J Surg Oncol** 1997 Aug; 65(4):298–305 (27 ref.)

External beam and intraluminal radiotherapy for locally advanced bile duct cancer: role and tolerability. Vallis KA, et al. **Radiother Oncol** 1996 Oct;41(1):61–6

[Intraluminal brachytherapy in tumors of the biliary system] Bruha R. **Vnitr Lek** 1997 Mar;43(3):186–8 (Eng. Abstr.) **(Cze)**

SECONDARY

Metastatic breast carcinoma presenting as obstructive jaundice. Papo M, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2240–1

Intrabiliary growth of metastatic colonic adenocarcinoma: a pattern of intrahepatic spread easily confused with primary neoplasia of the biliary tract. Riopel MA, et al. **Am J Surg Pathol** 1997 Sep;21(9):1030–6

An unusual case of Bellini duct carcinoma. Anjum MI, et al. **Int Urol Nephrol** 1996;28(5):695–8 (6 ref.)

Liver metastases from colon cancer with intra-bile duct tumor growth: radiologic features. Jinzaki M, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):656–60

[Bile duct metastasis of pancreatic leiomyosarcoma (letter)] Del Gallo G, et al. **Gastroenterol Clin Biol** 1997;21(3):233–4 **(Fre)**

SURGERY

A young female with a cholangiocarcinoma in the past: is pregnancy allowed? Temizkan M, et al. **Acta Gastroenterol Latinoam** 1996;26(1):31–4

Current management of patients with perihilar cholangiocarcinoma. Ahrendt SA, et al. **Adv Surg** 1996; 30:427–52 (117 ref.)

Surgical treatment in proximal bile duct cancer. A single-center experience. Pichlmayr R, et al. **Ann Surg** 1996 Nov;224(5):628–38 (66 ref.)

Adenocarcinoma of the ampulla of Vater. A 28-year experience. Talamini MA, et al. **Ann Surg** 1997 May; 225(5):590–9; discussion 599–600

A western surgical experience of peripheral cholangiocarcinoma. Berdah SV, et al. **Br J Surg** 1996 Nov; 83(11):1517–21

Outcome of treatment for distal bile duct cancer. Fong Y, et al. **Br J Surg** 1996 Dec;83(12):1712–5

Surgical biliary bypass for benign and malignant extrahepatic biliary tract disease. Parks RW, et al. **Br J Surg** 1997 Apr; 84(4):488–92

What constitutes long-term survival after surgery for hilar cholangiocarcinoma? Klempnauer J, et al. **Cancer** 1997 Jan 1;79(1):26–34 (50 ref.)

Surgical treatment of patients with mixed hepatocellular carcinoma and cholangiocarcinoma [see comments] Nakamura S, et al. **Cancer** 1996 Oct 15;78(8):1671–6. Comment in: Cancer 1997 Aug 1;80(3):514–6.

Biliary stent stripes [letter] Moses F, et al. **Gastrointest Endosc** 1996 Oct;44(4):510–1

New technique for bilateral metal mesh stent insertion to treat hilar cholangiocarcinoma. Silverman W, et al. **Gastrointest Endosc** 1996 Jan;43(1):61–3

Surgical treatment of cholangiocarcinoma. Chou FF, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):760–5

Biliary cystadenocarcinoma resected by segment 3 and 4 hepatectomy. Frameglia M, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1029–34

Intrahepatic cholangiocarcinoma with a long-term survival of 12 years after surgical resection: report of a case and review of the literature. Horie Y, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):506–9 (17 ref.)

Long-term survival after surgery for advanced intrahepatic cholangiocarcinoma: a case report. Hui AM, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):813–6

Factors influencing survival after hepatectomy for peripheral cholangiocarcinoma. Jan YY, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):614–9

Extended right trisegmentectomy for hilar bile duct carcinoma. Noie T, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):998–1001

Partial hepatectomy for metastatic seeding complicating pancreatoduodenectomy. Sano T, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):263–7

Third segment cholangio-jejunostomy in the treatment of unresectable klatskin tumors. Taschieri AM, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):597–600

The potential role of intraoperative ultrasonography in the surgical treatment of hilar cholangiocarcinoma. Watanapa P, et al. **HPB Surg** 1996;9(2):93–6

The use of intraoperative ultrasonography for detecting tumor extension in bile duct carcinoma. Kusano T, et al. **Int Surg** 1997 Jan–Mar;82(1):44–8

A new technique for assessing the resectability of hilar cholangiocarcinoma: lifting of the umbilical portion of the portal vein. Shirai Y, et al. **J Am Coll Surg** 1997 Jan; 184(1):80–3

Resectional surgery of hilar cholangiocarcinoma: a multivariate analysis of prognostic factors. Klempnauer J, et al. **J Clin Oncol** 1997 Mar;15(3):947–54

Inferior segmentectomy IV: a surgical approach for hilar cholangiocarcinoma. Wattanasirichaigoon S. **J Med Assoc Thai** 1996 Dec;79(12):774–8

Experience with distal bile duct cancers in U.S. Veterans Affairs hospitals: 1987–1991. Wade TP, et al. **J Surg Oncol** 1997 Mar;64(3):242–5

A pylorus-retaining pancreatic head-duodenectomy for cancers of the duodenal papilla and the lower bile duct. Iwamoto M, et al. **Kurume Med J** 1996;43(4):325–31

Rhabdomyosarcoma of the biliary tree. Sanz N, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):200–1

Proximal bile duct tumors. Kuvshinoff BW, et al. **Surg Oncol Clin N Am** 1996 Apr;5(2):317–36 (100 ref.)

Cholangiocarcinoma. Marcos-Alvarez A, et al. **Surg Oncol Clin N Am** 1996 Apr;5(2):301–16 (86 ref.)

Intrahepatic cholangiocarcinoma. Chu KM, et al. **World J Surg** 1997 Mar–Apr;21(3):301–5; discussion 305–6

[A variant of the authors' own method for transhepatic biliary drainage in high malignant obstruction of the bile ducts] Gaidarski R, et al. **Khirurgiia (Sofiia)** 1996;49(5):29–30 (Eng. Abstr.) **(Bul)**

[Surgical treatment of intrahepatic cholangiocarcinoma] Lamesch P, et al. **Chirurgie** 1997;122(2):88–91 (24 ref.) (Eng. Abstr.) **(Fre)**

[Cancer of the upper 3rd of the extra-hepatic bile ducts: surgical indication] Parc Y, et al. **Presse Med** 1996 Sep 14;25(26):1186–90 (Eng. Abstr.) **(Fre)**

[Malignant tumors of the hepatic bifurcation—results of surgical therapy and prognostic factors] Beckurts KT, et al. **Chirurg** 1997 Apr;68(4):378–84 (37 ref.) (Eng. Abstr.) **(Ger)**

[Diffuse bile duct papillomatosis: high rate of recurrence and risk of malignant transformation] Brönnimann S, et al. **Chirurg** 1996 Jan;67(1):93–7 (28 ref.) (Eng. Abstr.) **(Ger)**

[Experiences with liver transplantation and liver transplantation combined with Whipple's operation in Klatskin tumor] Anthuber M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:413–5 (Eng. Abstr.) **(Ger)**

[Treatment of the residual pancreatic stump after pancreatoduodenectomy: pancreatogastrostomy] Catania G, et al. **G Chir** 1996 Aug–Sep;17(8–9):425–30 (54 ref.) (Eng. Abstr.) **(Ita)**

[Non-resectable neoplasms of the biliary duct: palliative surgery vs non-surgical management] Tocchi A, et al. **G Chir** 1996 Aug–Sep;17(8–9):408–12 (43 ref.) (Eng. Abstr.) **(Ita)**

[Cancer of the extrahepatic bile ducts. Clinical experience and anatomic/surgical considerations] La Greca G, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):33–8 (Eng. Abstr.) **(Ita)**

[A case of successful management of advanced cholangiocellular carcinoma by repeated hepatic resection] Nakano H, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1603–6 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of hilar cholangiocarcinoma] Nagino M, et al. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):491–4 (36 ref.) (Eng. Abstr.) **(Jpn)**

[Surgical treatment for the upper and middle bile duct cancer] Takahashi S, et al. **Nippon Geka Gakkai Zasshi** 1997 May; 98(5):495–500 (Eng. Abstr.) **(Jpn)**

[Intrahepatic bile duct carcinoma (cholangiocarcinoma)] Taoka H, et al. **Nippon Geka Gakkai Zasshi** 1997 May; 98(5):484–90 (23 ref.) (Eng. Abstr.) **(Jpn)**

[The study for the surgical treatment on distal bile duct carcinoma] Yoshikawa T, et al. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):501–4 (Eng. Abstr.) **(Jpn)**

[A resected case of cholangiocellular carcinoma associated with HCV antibody-positive liver cirrhosis] Saitoh S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):131–6 **(Jpn)**

[Surgical prosthesis in Klatskin's tumor: the indications and results] Ticmeanu F. **Chirurgia (Bucur)** 1996 May–Jun; 45(3):119–24 (Eng. Abstr.) **(Rum)**

[Intrahepatic biloma. Conservative management with external drainage] Garcia Urguellés X, et al. **Cir Pediatr** 1996 Apr;9(2):85–7 (Eng. Abstr.) **(Spa)**

THERAPY

Metallic stents in malignant biliary obstruction. Rieber A, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):43–9

Percutaneous biliary procedures. Uflacker R. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):177–215 (70 ref.)

Percutaneous choledochoscopy. Yamakawa T, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):217–34 (44 ref.)

A retrospective comparison of endoscopic stenting alone with stenting and radiotherapy in non-resectable cholangiocarcinoma. Bowling TE, et al. **Gut** 1996 Dec; 39(96):852–5

Clinical results of radiofrequency hyperthermia for malignant liver tumors. Nagata Y, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):359–65

[Palliative therapy of carcinomas of the biliary system] Lersch C, et al. **Med Klin** 1997 Jul 15;92(7):401–5 (52 ref.) (Eng. Abstr.) **(Ger)**

[A case of advanced cholangiocellular carcinoma treated successfully by percutaneous isolated liver perfusion with cisplatin] Maeda I, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1607–9 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Diagnosis of portal venous invasion by pancreatobiliary carcinoma: value of endoscopic ultrasonography. Sugiyama M, et al. **Abdom Imaging** 1997 Jul–Aug;22(4):434–8

Cholangiocarcinoma at the hepatic hilus: sonographic findings. Hann LE, et al. **AJR Am J Roentgenol** 1997 Apr; 168(4):985–9

Endoscopic ultrasonography assessment in preoperative staging for carcinoma of ampulla of Vater and extrahepatic bile duct. Zhang Q, et al. **Chin Med J (Engl)** 1996 Aug; 109(8):622–5

Assessment of pancreatic parenchymal invasion by bile duct cancer using intraductal ultrasonography. Tamada K, et al. **Endoscopy** 1996 Aug;28(6):492–6

Assessment of the course and variations of the hepatic artery in bile duct cancer by intraductal ultrasonography. Tamada K, et al. **Gastrointest Endosc** 1996 Sep;44(3):249–56

The potential role of intraoperative ultrasonography in the surgical treatment of hilar cholangiocarcinoma. Watanapa P, et al. **HPB Surg** 1996;9(2):93–6

The use of intraoperative ultrasonography for detecting tumor extension in bile duct carcinoma. Kusano T, et al. **Int Surg** 1997 Jan–Mar;82(1):44–8

Value of laparoscopic ultrasonography in staging of proximal bile duct tumors. van Delden OM, et al. **J Ultrasound Med** 1997 Jan;16(1):7–12

VETERINARY

Sclerosing adenocarcinoma of the extrahepatic bile duct in a cat. Pastor J, et al. **Vet Rec** 1997 Apr 5;140(14):367–8

Cholangiocarcinoma in a goat. Rodriguez F, et al. **Vet Rec** 1996 Aug 10;139(6):143–4

A case of equine cholangiocarcinoma displaying aberrant expression of p53 protein. Sironi G, et al. **Vet Rec** 1997 Jul 19;141(3):77–8

VIROLOGY

Hepatitis C virus genotypes in patients with hepatocellular carcinoma and cholangiocarcinoma in Thailand. Songsivilai S, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):505–7

[Expression and significance of hepatitis B virus genes in human primary intrahepatic cholangiocarcinoma and its surrounding tissue] Wang W, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):127–30 (Eng. Abstr.) **(Chi)**

BILE DUCT OBSTRUCTION see **CHOLESTASIS**

BILE DUCT OBSTRUCTION, EXTRAHEPATIC

[Clinical aspects, diagnosis and treatment of scar strictures of bile ducts] Shalimov AA, et al. **Klin Khir** 1996;(4):3–5 **(Rus)**

BLOOD

False elevation of CA 19-9 levels in a patient with a history of pancreatic cancer. Goetz M, et al. **Am J Gastroenterol** 1997 Aug;92(8):1390–1

Characterization of lipoproteins during human cholestasis. Tallet F, et al. **Clin Chim Acta** 1996 Jan 15;244(1):1–15

Increased intercellular adhesion molecule-1 serum concentration in cholestasis. Polzien F, et al. **J Hepatol** 1996 Dec;25(6):877–86

Effect of cyclosporin A on platelet aggregation and thromboxane/prostacyclin balance in a model of extrahepatic cholestasis in the rat. González-Correa JA, et al. **Thromb Res** 1996 Feb 1;81(3):367–81

CHEMICALLY INDUCED

Acute liver injury due to loracarbef [letter] Björnsson E, et al. **J Hepatol** 1997 Mar;26(3):739–40

CONGENITAL

Cholelithiasis in early infancy. Wilcox DT, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):198–9

DIAGNOSIS

Percutaneous cholangioscopy in obstructed biliary metal stents. Hausegger KA, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):191–6

Ultrasound and cholangiography for the diagnosis of biliary complications after orthotopic liver transplantation: a comparative study. Kok T, et al. **J Clin Ultrasound** 1996 Mar–Apr;24(3):103–15

Comparison of ultrasonography and cholangiography (ERCP/PTC) in the differential diagnosis of obstructive jaundice. Khan MA, et al. **JPMA J Pak Med Assoc** 1996 Sep;46(9):188–90

A case of biliary ascariasis associated with calculi in the gall bladder and the common bile duct. Tan TH. **Singapore Med J** 1995 Aug;36(4):442–3

Asymptomatic Mirizzi syndrome. Ibrarullah M, et al. **Trop Gastroenterol** 1995 Jul–Sep;16(3):32–3

DRUG THERAPY

Alpha-interferon prevents liver collagen deposition and damage induced by prolonged bile duct obstruction in the rat. Muriel P. **J Hepatol** 1996 May;24(5):614–21

EPIDEMIOLOGY

Infantile cholestasis in the Central-Eastern Province Saudi Arabia. Abdullah AM, et al. **J Trop Pediatr** 1997 Jun; 43(3):138–42

ETIOLOGY

Portal vein thrombosis mimicking tumour and causing obstructive jaundice. A case report. Nyman R, et al. **Acta Radiol** 1996 Sep;37(5):685–7

BILE DUCT OBSTRUCTION, EXTRAHEPATIC

Extrahepatic cholestasis attributable to tuberculous adenitis [letter] Arrese M, et al. **Am J Gastroenterol** 1997 May; 92(5):912–3

Bleeding causing biliary obstruction after endoscopic sphincterotomy. Mosenkis BN, et al.
Am J Gastroenterol 1997 Apr;92(4):708–9 (5 ref.)

Metastatic breast carcinoma presenting as obstructive jaundice. Papo M, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2240–1

Biliary tract obstruction due to sarcoidosis: a case report. Rezeig MA, et al. **Am J Gastroenterol** 1997 Mar;92(3):527–8

Biliary obstruction caused by a multifocal duodenal neurosarcoma in a patient with von Recklinghausen's disease. Hünerbein M, et al. **Endoscopy** 1996 May; 28(4):405–6

Food impaction in a duodenal diverticulum as an unusual cause of biliary obstruction: case reports and review of the literature. van der Linde K, et al.
Eur J Gastroenterol Hepatol 1997 Jun;9(6):635–9 (64 ref.)

Obstructive jaundice caused by lymph node compression in a child. Cacciaguerra S, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):367–8

Common bile duct obstruction caused by multiple myeloma of the pancreas. Abu-Hammour AM, et al.
Gastrointest Endosc 1996 Nov;44(5):606–8 (18 ref.)

Obstructive jaundice caused by ampullary metastases of an endometrioid adenocarcinoma. Silva R, et al.
Gastrointest Endosc 1996 Aug;44(2):195–7

Cholestatic jaundice due to Ormond's disease (primary retroperitoneal fibrosis). Pereira-Lima JC, et al.
Hepatogastroenterology 1996 Jul–Aug;43(10):992–4

Intestinal endotoxins as co-factors of liver injury in obstructive jaundice. Mentes BB, et al. **HPB Surg** 1996; 9(2):61–9

Icterus due to tumor emboli--a rare presentation of hepatoma. Sastry RA, et al. **Indian J Gastroenterol** 1996 Jan;15(1):24–5

A rare case of severe acute pancreatitis complicated with pancreatic pseudocysts, obstructive jaundice and intraperitoneal hemorrhage. Fujita N, et al. **Intern Med** 1996 Oct;35(10):785–90

Anatomy and etiology of extrahepatic portal vein obstruction in children leading to bleeding esophageal varices [see comments] Ando H, et al. **J Am Coll Surg** 1996 Dec; 183(6):543–7. Comment in: J Am Coll Surg 1996 Dec;183(6):637–9.

Carcinoma of the gall-bladder producing mucous obstruction of the common bile duct: a cautionary note. Hughes OD, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):280–2

Renal lymphoma: an unusual cause of extrahepatic biliary obstruction. Abbas Z, et al. **Postgrad Med J** 1996 Oct; 72(852):617–8

The Mirizzi syndrome. Pemberton M, et al.
Postgrad Med J 1997 Aug;73(862):487–90 (30 ref.)

Mirizzi syndrome caused by xanthogranulomatous cholecystitis: report of a case. Lee KC, et al.
Surg Today 1997;27(8):757–61

Plexiform neurofibroma: a rare cause of obstructive jaundice. Mitchell DI, et al. **West Indian Med J** 1995 Dec;44(4):146–7

[Mirizzi's syndrome as the cause of intrahepatic lithiasis. A clinical case] Astuni M, et al. **Minerva Chir** 1997 May; 52(5):639–42 (20 ref.) (Eng. Abstr.) **(Ita)**

[Microcytic bronchogenic carcinoma with extrahepatic obstructive icterus] Villena V, et al. **Arch Bronconeumol** 1997 Feb;33(2):99–100 (Eng. Abstr.) **(Spa)**

[Obstructive jaundice from an adenomyoma of the ampulla of Vater (letter)] Ligorred L, et al.
Rev Esp Enferm Dig 1997 May;89(5):411–2 **(Spa)**

[Obstructive jaundice as a presentation form of bronchogenic small cell carcinoma] Martín Parra JI, et al.
Rev Esp Enferm Dig 1996 Apr;88(4):299–301 (Eng. Abstr.) **(Spa)**

METABOLISM

Tissue distribution and general safety of MnDPDP in male beagle dogs, with or without total common bile duct obstruction [see comments] Grant D, et al. **Acta Radiol** 1997 Jul;38(4 Pt 2):732–9. Comment in: Acta Radiol 1997 Jul;38(4 Pt 2):623–5.

Analysis by confocal laser scanning microscopy imaging of undilated bile canaliculi F-actin staining in the hepatocytes of human extrahepatic cholestatic liver. Benköel L, et al.
Cell Mol Biol (Noisy-le-grand) 1997 Jun;43(4):477–83

Sequential changes of bile contents in patients with obstructive jaundice from different etiologies. Chen CY, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):796–9

Effects of S-adenosyl-L-methionine on hepatic and renal oxidative stress in an experimental model of acute biliary obstruction in rats. Gonzalez-Correa JA, et al.
Hepatology 1997 Jul;26(1):121–7

Progressive decrease in tissue glycogen content in rats with long-term cholestasis. Krahenbuhl L, et al. **Hepatology** 1996 Oct;24(4):902–7

Disturbed structural interactions between microfilaments and tight junctions in rat hepatocytes during extrahepatic cholestasis induced by common bile duct ligation. Song JY, et al. **Histochem Cell Biol** 1996 Dec;106(6):573–80

MICROBIOLOGY

Allopurinol and glutamine attenuate bacterial translocation in chronic portal hypertensive and common bile duct ligated growing rats. Schimpl G, et al. **Gut** 1996 Jul; 39(1):48–53

PARASITOLOGY

Biliary tract obstruction by unusual parasites. Contractor QQ, et al. **Endoscopy** 1996 Nov;28(9):780

The role of sonography in the early diagnosis of biliopancreatic Ascaris infestation. Larrubia JR, et al.
J Clin Gastroenterol 1996 Jan;22(1):48–50

PATHOLOGY

Ultrastructural sinusoidal changes in extrahepatic cholestasis. Light and electron microscopic immunohistochemical localization of collagen type III and type IV. Gulubova MV. **Acta Histochem** 1996 Jul;98(3):271–83

Biliary stricture measurement and stent selection. Seibert DG.
Am J Gastroenterol 1997 Sep;92(9):1510–4

An experimental study on effects of occlusion of the cystic duct in mice with or without emptying of the gallbladder. Trondsen E, et al. **Eur Surg Res** 1997;29(2):150–8

Hyaline cartilage at porta hepatis in extrahepatic biliary atresia. Mirkin LD, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):587–91

Forceps biopsy and brush cytology during endoscopic retrograde cholangiopancreatography for the diagnosis of biliary stenoses. Schoefl R, et al. **Scand J Gastroenterol** 1997 Apr;32(4):363–8

Alterations of hepatocellular intermediate filaments during extrahepatic cholestasis in rat liver. Song JY, et al.
Virchows Arch 1997 Mar;430(3):253–60

[Consequences of cholestasis from the pathologist's viewpoint] Zimmermann A. **Schweiz Med Wochenschr** 1997 May 10;127(19):812–20 (38 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Pharmacokinetics of phenazone (antipyrine) in rabbits with experimental common bile duct obstruction. Wójcicki J, et al. **Br J Pharmacol** 1996 Jan;117(1):1–4

Role of the gut in the pathophysiology of extrahepatic biliary obstruction. Clements WD, et al. **Gut** 1996 Oct; 39(4):587–93

Benzoic acid metabolism reflects hepatic mitochondrial function in rats with long-term extrahepatic cholestasis. Krähenbühl L, et al. **Hepatology** 1997 Feb;25(2):278–83

Increased biliary secretion of cysteinyl-leukotrienes in human bile duct obstruction. Richter L, et al. **J Hepatol** 1996 Nov; 25(5):725–32

[Effect of artificial blockade of the reticuloendothelial system (RES) on development of biliary pancreatitis in the opossum model] Baas JC, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:403–6 (Eng. Abstr.) **(Ger)**

[Consequences of cholestasis from the hepatologist's viewpoint] Krähenbühl S. **Schweiz Med Wochenschr** 1997 May 10;127(19):821–8 (56 ref.) (Eng. Abstr.) **(Ger)**

[The effect of experimental extrahepatic cholestasis on absorption, distribution and elimination of digoxin] Wójcicki M. **Ann Acad Med Stetin** 1996;42:51–65 (Eng. Abstr.) **(Pol)**

PSYCHOLOGY

Quality of life in patients stented for malignant biliary obstructions. Luman W, et al.
Eur J Gastroenterol Hepatol 1997 May;9(5):481–4

RADIOGRAPHY

Iodinated triglyceride--enhanced three-dimensional biliary imaging with helical computed tomography scanning in dogs. Lee FT Jr, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S449–51

SURGERY

Saline injection needle-knife sphincterotomy: a preliminary report [see comments] Etzkorn KP, et al. **Endoscopy** 1996 May;28(4):360–4. Comment in: Endoscopy 1996 May;28(4):365–6.

The safety of total hepatic vascular occlusion in rabbits with acute extrahepatic cholestasis. Ersöz S, et al.
Eur Surg Res 1996;28(2):104–110

Snare beside-a-wire biliary stent exchange: a method that maintains access across biliary strictures. Tarnasky PR, et al. **Gastrointest Endosc** 1996 Aug;44(2):185–7

Transduodenal sphincteroplasty and transampullary septectomy for papillary stenosis. Kelly SB, et al.
HPB Surg 1996;9(4):199–207

Endoscopic biliary stent migration with small bowel perforation in a liver transplant recipient. Esterl RM Jr, et al. **J Clin Gastroenterol** 1997 Mar;24(2):106–10

Evaluation of surgical options in difficult gall bladder stone disease. Maudar KK. **J Indian Med Assoc** 1996 Apr; 94(4):138–40

Intrahepatic biliary-enteric bypass for complete extrahepatic biliary obstruction in children. Blanchard H, et al.
J Pediatr Surg 1997 Jun;32(6):902–4

Spontaneous biliary perforation: does external drainage constitute adequate therapy? Spigland N, et al.
J Pediatr Surg 1996 Jun;31(6):782–4

Liver transplantation for extra hepatic biliary atresia. Nagral S, et al. **Tohoku J Exp Med** 1997 Jan;181(1):117–27

A minimally invasive palliative approach to advanced pancreatic and papillary cancer causing both biliary and duodenal obstruction. Born P, et al. **Z Gastroenterol** 1996 Jul;34(7):416–20

[A variant of the authors' own method for transhepatic biliary drainage in high malignant obstruction of the bile ducts] Gaidarski R, et al. **Khirurgiia (Sofiia)** 1996;49(5):29–30 (Eng. Abstr.) **(Bul)**

[Malignant tumors of the hepatic bifurcation--results of surgical therapy and prognostic factors] Beckurts KT, et al. **Chirurg** 1997 Apr;68(4):378–84 (37 ref.) (Eng. Abstr.) **(Ger)**

[Distal stenosis of the choledochus in chronic pancreatitis: endoscopic drainage or operation?] Meyer W, et al.
Leber Magen Darm 1996 Sep;26(5):248, 251–3 (Eng. Abstr.) **(Ger)**

[Surgery in malignant obstructive jaundice: laparoscopic surgery--the future?] Schlumpf R, et al.
Schweiz Med Wochenschr 1997 May 10;127(19):834–8 (21 ref.) (Eng. Abstr.) **(Ger)**

[Extraction of cystic duct occlusion calculus in laparoscopic cholecystectomy] Köckerling F, et al. **Zentralbl Chir** 1997; 122(4):295–8 (Eng. Abstr.) **(Ger)**

[Results of correction of benign bile duct obstructions by bilio-jejunal anastomosis] Trebing G, et al.
Zentralbl Chir 1996;121(1):51–7 (Eng. Abstr.) **(Ger)**

[Surgery of benign obstruction of the bile tract. Current opinion status] Molés JR, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):847–50 (Eng. Abstr.) **(Spa)**

THERAPY

Necrotizing fasciitis: fatal complication of migrated biliary stent. Marsman JW, et al. **Australas Radiol** 1996 Feb; 40(1):80–3

Malignant biliary obstruction complicated by ascites: closure of the transhepatic tract with cyanoacrylate glue after placement of an endoprosthesis. Cekirge S, et al.
Cardiovasc Intervent Radiol 1997 May–Jun;20(3):228–31

Metallic stents in malignant biliary obstruction. Rieber A, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):43–9

Percutaneous endoscopic retrieval and replacement of a knitted (Ultraflex) biliary stent. Sawada S, et al.
Cardiovasc Intervent Radiol 1997 Sep–Oct;20(5):401–3

A new time-saving technique of inserting multiple biliary endoprostheses without fluoroscopy. Misra SP, et al.
Endoscopy 1997 Jan;29(1):58

Misplacement of endoscopic biliary endoprostheses. Nicholson AA, et al. **Endoscopy** 1997 Feb;29(2):125–7

Resolution of Mirizzi's syndrome using endoscopic therapy. Baron TH, et al. **Gastrointest Endosc** 1996 Sep;44(3):343–5

Innovative use of the Soehendra stent retriever for biliary stricture recannalization [letter] Faigel DO, et al.
Gastrointest Endosc 1996 Nov;44(5):635

Endoscopic stent therapy for dominant extrahepatic bile duct strictures in primary sclerosing cholangitis. van Milligen de Wit AW, et al. **Gastrointest Endosc** 1996 Sep;44(3):293–9

Treatment of biliary strictures with metallic stents in liver transplant recipients [letter; comment] Culp WC, et al.
J Vasc Interv Radiol 1996 May–Jun;7(3):457–8. Comment on: J Vasc Interv Radiol 1995 Sep–Oct;6(5):755–61.

Utilization pattern and efficacy of nonsurgical techniques to establish drainage for high biliary obstruction. Nelsen KM, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):751–6

Adverse metabolic and microbiological effects of tube feeding in experimental canine obstructive jaundice. Chuang JH, et al. **JPEN J Parenter Enteral Nutr** 1997 Jan–Feb;21(1):36–40

Metallic stenting of the biliary tree following liver transplant hepatic artery thrombosis in an infant. Khong PL, et al.
Pediatr Radiol 1997 Jan;27(1):79–81

Common bile duct obstruction due to malignancy: treatment with plastic versus metal stents. Lammer J, et al.
Radiology 1996 Oct;201(1):167–72

[Palliative therapy of inoperable malignant occlusive jaundice--stent implantation or biliodigestive anastomosis] Truong S, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:762–6 (20 ref.) (Eng. Abstr.) **(Ger)**

[Cholestasis--therapy] Ell C, et al. **Med Klin** 1996 Oct 15; 91(10):665–6 **(Ger)**

[Technical and clinical success with extracorporeal shockwave lithotripsy in pancreatic duct calculi] Schneider HT, et al. **Med Klin** 1996 Feb 15;91(2):66–71 (Eng. Abstr.) **(Ger)**

[Interventional endoscopic therapy of chronic pancreatitis] Löhr M, et al. **Z Gastroenterol** 1997 Jun;35(6):437–48 (Eng. Abstr.) **(Ger)**

[Percutaneous transhepatic stent implantation versus hepaticojejunostomy in palliative therapy of distal malignant bile duct stenosis] Trautwein K, et al.
Zentralbl Chir 1996;121(7):565–70 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Common bile duct stones in non-dilated bile ducts? An ultrasound study. Hunt DR. **Australas Radiol** 1996 Aug; 40(3):221–2

Percutaneous transhepatic intraductal biliary sonography for lymph node staging at 12.5 MHz in malignant bile duct obstruction: work in progress. Duda SH, et al.
Cardiovasc Intervent Radiol 1997 Mar–Apr;20(2):133–8

Ultrasonic probes for pancreaticobiliary strictures. Yasuda

K. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S35–7
Clinical perspectives of a sonographic secretin test. Glaser J. **Z Gastroenterol** 1997 Jul;35(7):579–83 (23 ref.)
[Do ultrasound parameters allow diagnosis of biliary sphincter of Oddi dysfunction?] Wehrmann T, et al. **Z Gastroenterol** 1997 Jun;35(6):449–57 (Eng. Abstr.) **(Ger)**

VETERINARY

Sonographic evaluation of the common bile duct in cats. Léveillé R, et al. **J Vet Intern Med** 1996 Sep–Oct; 10(5):296–9

BILE DUCT OBSTRUCTION, INTRAHEPATIC see **CHOLESTASIS, INTRAHEPATIC**

BILE DUCTS

see related
CHOLANGIOGRAPHY
CHOLANGIOPANCREATOGRAPHY, ENDOSCOPIC RETROGRADE
PORTOENTEROSTOMY, HEPATIC

Re: in situ formation of a loop snare for retrieval of a foreign body without a free end [letter] Thomas S, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):163–4
Treatment of metallic biliary stent–induced duodenal ulceration using endoscopic laser therapy. Yarze JC, et al. **Dig Dis Sci** 1997 Jan;42(1):6–9
Nitinol self–expanding stents: when severe twisting occurs, self–expansion may ensue after a waiting period. Chung JP, et al. **Endoscopy** 1997 Mar;29(3):211–3
Therapeutic endoscopy and primary sclerosing cholangitis [editorial ; comment] Devière J. **Endoscopy** 1996 Sep; 28(7):576–7. Comment on: Endoscopy 1996 Sep;28(7):546–51.
Balloon dilation of the papilla via a forward–viewing endoscope: an aid to therapeutic endoscopic retrograde cholangiopancreatography in patients with Billroth–II gastrectomy. Dickey W, et al. **Endoscopy** 1996 Aug; 28(6):531–2
Novel methods of management of trapped dormia baskets in the pancreatic and biliary ducts [letter; comment] Mutignani M, et al. **Endoscopy** 1997 Feb;29(2):129–30. Comment on: Endoscopy 1995 Jun;27(5):384–7.
Ultrasound–guided emergency endoscopic retrograde biliary drainage without radiography. Schorn TF, et al. **Endoscopy** 1997 Mar;29(3):232–3
Endoscopic management of biliary tract strictures in primary sclerosing cholangitis [see comments] Wagner S, et al. **Endoscopy** 1996 Sep;28(7):546–51. Comment in: Endoscopy 1996 Sep;28(7):576–7.
The use of a wire mesh stent in treating biliary obstruction caused by shrapnel. Silvis SE, et al. **Gastrointest Endosc** 1996 Dec;44(6):741–6
Peroral cholangioscopy using new fine–caliber flexible scope for detailed examination without papillotomy. Soda K, et al. **Gastrointest Endosc** 1996 Mar;43(3):233–8
Renal vasoactive mediator generation in portal hypertensive and bile duct ligated rats. Ackerman Z, et al. **J Hepatol** 1996 Apr;24(4):478–86
Cholangiography for evaluation of the proximal biliary ducts in laparoscopic cholecystectomy. Hawasli A. **J Laparoendosc Surg** 1996 Aug;6(4):245–8
Thermal bile duct protection during liver cryoablation. Silverstein JC, et al. **J Surg Oncol** 1997 Feb;64(2):163–4
Prevention of hemobilia during percutaneous biliary drainage: long–term follow–up. Goodwin SC, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):881–3
Percutaneous retrieval of a fractured biliary guidewire from a reduced liver graft. Khong PL, et al. **Pediatr Radiol** 1997 Mar;27(3):253–4
[Metal stents in patients with malignant and benign stenoses of the biliary tract] Válek V, et al. **Rozhl Chir** 1997 Apr; 76(4):207–14 (Eng. Abstr.) **(Cze)**
[Progress in instrument used for diagnosis of obstructive jaundice. 4. MRCP] Akahane M. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):602–7 (5 ref.) **(Jpn)**
[Progress in instrument for diagnosis of obstructive jaundice. 3) Cholangioscopy––with special reference to diagnosis by an oral or percutaneous transhepatic cholangioscope] Maguchi H, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):597–601 (5 ref.) **(Jpn)**
[MR angiography and MR cholangiopancreatography] Morimoto K, et al. **Nippon Rinsho** 1996 Sep;54(9):2591–9 (12 ref.) (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Incomplete pancreas divisum coexistent with anomalous union of pancreaticobiliary duct––report of a Chinese patient. Lin CC, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1650–2
Prospective study of the detection of anomalous connections of pancreatobiliary ducts during routine medical examinations. Yamao K, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1238–45
Case report: paucity of interlobular bile ducts in Chinese children. Chiu HH, et al. **J Gastroenterol Hepatol** 1996 May;11(5):434–8
Nonsyndromic paucity of interlobular bile ducts: clinical and laboratory findings of 10 cases. Koçak N, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):44–8
Proliferating cell nuclear antigen expression in the gallbladder with pancreaticobiliary maljunction. Isozaki H, et al. **J Surg Oncol** 1997 May;65(1):46–9
A rare right hepatic duct anatomical variant discovered after laparoscopic bile duct transection. Seibert D, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):61–4
An analysis of mutagens in the contents of the biliary tract in pancreaticobiliary maljunction. Mizuno M, et al. **Surg Today** 1996;26(8):597–602
Analysis of c–Ki–ras oncogene and p53 immunocytochemistry in the gallbladder mucosa of an experimental dog model of anomalous arrangement of the pancreaticobiliary ducts. Sasaki K, et al. **Tokushima J Exp Med** 1996 Dec;43(3–4):101–6
[Carcinoma of the gallbladder in anomalous pancreaticoliliary ductal junction] Chijiiwa K, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):599–605 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Symptoms, diagnosis and treatment of pancreaticobiliary maljunction associated with congenital cystic dilatation of bile duct] Funabiki T, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):582–8 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Congenital dilatation and stricture of the bile duct as a cause of primary intrahepatic calculi] Matsumoto Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):611–7 (16 ref.) (Eng. Abstr.) **(Jpn)**
[Pancreatico–biliary maljunction and congenital dilatation of bile duct] Okada A. **Nippon Geka Gakkai Zasshi** 1996 Aug; 97(8):589–93 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Usefulness of helical DIC–CT in pancreaticobiliary maljunction] Watanabe Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):249–52 (Eng. Abstr.) **(Jpn)**
[A case of aplasia of the body and tail of the pancreas associated with malfusion of the pancreatobiliary ducts] Nishiguchi H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):145–8 **(Jpn)**

ANATOMY & HISTOLOGY

Gadolinium–ethoxybenzyl–DTPA as a hepatobiliary contrast agent for use in MR cholangiography: results of an in vivo phase–I clinical evaluation. Bollow M, et al. **Eur Radiol** 1997;7(1):126–32
[Preoperative spiral CT cholangiography with 3–dimensional surface reconstruction: the anatomical imaging potentials, limits and application strategies] Bücker A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Feb;166(2):120–4 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

Bleeding from bile duct varices: an unexpected hazard during therapeutic ERCP. Tighe M, et al. **Gastrointest Endosc** 1996 Mar;43(3):250–2 (7 ref.)
Peribiliary vascular plexus in primary sclerosing cholangitis and primary biliary cirrhosis. Washington K, et al. **Hum Pathol** 1997 Jul;28(7):791–5
Biliary infarct (Charcot–Gombault necrosis): CT and pathologic features. Jurado I, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):106–7
Images in hepatology: ischemic–type biliary disease after liver transplantation. Sackmann M, et al. **J Hepatol** 1997 Apr; 26(4):940
Successful endoscopic injection sclerotherapy for bleeding from bile duct varices. Ito T, et al. **Surg Today** 1997; 27(2):174–6

CHEMISTRY

[Alterations of the mucin components in bile duct epithelium associated with proliferating cholangitis––an experimental study] Katayama F. **Hokkaido Igaku Zasshi** 1996 Sep; 71(5):585–98 (Eng. Abstr.) **(Jpn)**

CYTOLOGY

Growth and differentiation in culture of clonogenic hepatocytes that express both phenotypes of hepatocytes and biliary epithelial cells. Tateno C, et al. **Am J Pathol** 1996 Nov;149(5):1593–605
Bile acids stimulate proliferative and secretory events in large but not small cholangiocytes. Alpini G, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G518–29
Regulation of cell volume in a human biliary cell line: activation of K+ and Cl– currents. Roman RM, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G239–48
Biliary stent replacement cytology. Simsir A, et al. **Diagn Cytopathol** 1997 Mar;16(3):233–7
A new rat bile ductular epithelial cell culture model characterized by the appearance of polarized bile ducts in vitro. Sirica AE, et al. **Hepatology** 1997 Sep;26(3):537–49

DRUG EFFECTS

Devazepide–induced hyperplasia in the rat liver and bile ducts. Ohlsson B, et al. **Eur Surg Res** 1996 Jul–Aug; 28(4):299–305
Cytotoxicity of bile salts against biliary epithelium: a study in isolated bile ductule fragments and isolated perfused rat liver. Benedetti A, et al. **Hepatology** 1997 Jul;26(1):9–21
Retrograde injections of formaldehyde into the biliary tree induce alterations of biliary epithelial function in rats. Dumont M, et al. **Hepatology** 1996 Nov;24(5):1217–23

EMBRYOLOGY

Bile ductule formation in fetal, neonatal, and infant livers compared with extrahepatic biliary atresia. Cocjin J, et al. **Hepatology** 1996 Sep;24(3):568–74

GROWTH & DEVELOPMENT

Bile ductule formation in fetal, neonatal, and infant livers compared with extrahepatic biliary atresia. Cocjin J, et al. **Hepatology** 1996 Sep;24(3):568–74

IMMUNOLOGY

Classification of hepatocellular carcinoma according to hepatocellular and biliary differentiation markers. Clinical and biological implications. Wu PC, et al. **Am J Pathol** 1996 Oct;149(4):1167–75
Concentric fibrosis and cellular infiltration around bile ducts induced by graft–versus–host reaction in mice: a role of CD8+ cells. Inada S, et al. **Autoimmunity** 1995; 22(3):163–71
Ductular expression of autoantigens in primary biliary cirrhosis. Joplin R, et al. **Semin Liver Dis** 1997 May; 17(2):97–103 (37 ref.)
Bile duct epithelia as target cells in primary biliary cirrhosis and primary sclerosing cholangitis. Dienes HP, et al. **Virchows Arch** 1997 Aug;431(2):119–24

INJURIES

Peritoneal and pleural infection following placement of an internal biliary stent for a large bile leak. Weiss K, et al. **Am J Gastroenterol** 1997 Feb;92(2):347–8 (9 ref.)
Cholescintigraphy in the diagnosis of bile leak after laparoscopic cholecystectomy. Sandoval BA, et al. **Am Surg** 1997 Jul;63(7):611–6
Major bile duct injuries during laparoscopic cholecystectomy. Follow–up after combined surgical and radiologic management. Lillermoe KD, et al. **Ann Surg** 1997 May;225(5):459–68; discussion 468–71
Laparoscopic cholecystectomy–related bile duct injuries: a health and financial disaster. Savader SJ, et al. **Ann Surg** 1997 Mar;225(3):268–73
Bile duct imaging and injury: a regional audit of laparoscopic cholecystectomy. Merrie AE, et al. **Aust N Z J Surg** 1997 Oct;67(10):706–11
Post–cholecystectomy external biliary fistula. Singh V, et al. **Aust N Z J Surg** 1997 Apr;67(4):168–72
Incidence and nature of bile duct injuries following laparoscopic cholecystectomy: an audit of 5913 cases [letter] Abbasakoor F, et al. **Br J Surg** 1997 Sep;84(9):1322
Bile duct injury following laparoscopic cholecystectomy: referral pattern and management. Mirza DF, et al. **Br J Surg** 1997 Jun;84(6):786–90
Incidence and nature of bile duct injuries following laparoscopic cholecystectomy: an audit of 5913 cases [letter; comment] Nilsson E. **Br J Surg** 1997 Mar;84(3):424 . Comment on: Br J Surg 1996 Oct;83(10):1356–60.
Incidence and nature of bile duct injuries following laparoscopic cholecystectomy: an audit of 5913 cases. West of Scotland Laparoscopic Cholecystectomy Audit Group [see comments] Richardson MC, et al. **Br J Surg** 1996 Oct; 83(10):1356–60. Comment in: Br J Surg 1997 Mar;84(3):424. Comment in: Br J Surg 1997 May;84(5):730–1.
Incidence and nature of bile duct injuries following laparoscopic cholecystectomy: an audit of 5913 cases [letter; comment] Torkington J, et al. **Br J Surg** 1997 May; 84(5):730–1. Comment on: Br J Surg 1996 Oct;83(10):1356–60.
Endoscopic retrograde cholangiopancreatography and laparoscopic cholecystectomy. Brady PG, et al. **Dig Dis** 1996 Nov–Dec;14(6):371–81 (47 ref.)
Postcholecystectomy bile duct injuries: experience with 49 cases managed by different therapeutic modalities. Abdel Wahab M, et al. **Hepatogastroenterology** 1996 Sep–Oct; 43(11):1141–7
Biliary complications during and after laparoscopic cholecystectomy. Jan YY, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):370–5
Iatrogenic biliary strictures: surgical experience with 39 patients. Rohde L, et al. **HPB Surg** 1997;10(4):221–7
The role of nuclear scintigraphy of suspected bile duct injury following laparoscopic cholecystectomy. Ben Baruch D, et al. **Isr J Med Sci** 1996 Dec;32(12):1306–8
Bile duct injury during laparoscopic cholecystectomy: a prospective nationwide series. Adamsen S, et al. **J Am Coll Surg** 1997 Jun;184(6):571–8
Case report: radiological and endoscopic management of bile leak following laparoscopic cholecystectomy. Sammak BM, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):34–8
Bile duct injury as a major cause of stenosis and occlusion in transjugular intrahepatic portosystemic shunts: comparative histopathologic analysis in humans and swine. Saxon RR, et al. **J Vasc Interv Radiol** 1996 Jul–Aug; 7(4):487–97
Spiral CT cholangiography in complex bile duct injuries after laparoscopic cholecystectomy. Stockberger SM Jr, et al. **J Vasc Interv Radiol** 1997 Mar–Apr;8(2):249–52
Imaging and interventional radiology in laparoscopic injuries to the gallbladder and biliary system. Slanetz PJ, et al.

Radiology 1996 Dec;201(3):595–603 (40 ref.)
Acute right–lower–quadrant mass presenting after laparoscopic cholecystectomy. Bour ES, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):51–2
Endoscopic management of bile duct leaks after attempted laparoscopic cholecystectomy. Neidich R, et al. **Surg Laparosc Endosc** 1996 Oct;6(5):348–54
A rare right hepatic duct anatomical variant discovered after laparoscopic bile duct transection. Seibert D, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):61–4
Comparison of routine and selective endoscopic retrograde cholangiography before laparoscopic cholecystectomy. Tanaka M, et al. **World J Surg** 1996 Mar–Apr;20(3):267–70; discussion 271
[Iatrogenic bile duct injuries during the process of laparoscopic cholecystectomy] Qian G, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):647–9 (Eng. Abstr.) **(Chi)**
[Are bile duct injuries no longer the exclusive concern of the surgeon?] Král V, et al. **Bratisl Lek Listy** 1996 Dec; 97(12):753–5 **(Cze)**
[Reoperation in iatrogenic injuries in the biliary tract] Sváb J, et al. **Bratisl Lek Listy** 1996 Dec;97(12):734–6 **(Cze)**
[Bile duct injuries in laparoscopic cholecystectomy. A computerized analysis of 148 lesions in 24,440 operations in 89 Hungarian institutes (publication by the Hungarian Society of Surgery)] Regöly–Mérei J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:600–2 (Eng. Abstr.) **(Ger)**
[Iatrogenic biliary lesions and stenosis] Latteri S, et al. **G Chir** 1997 Jan–Feb;18(1–2):61–4 (20 ref.) (Eng. Abstr.) **(Ita)**
[Surgical injuries to the main bile ducts and their sequellae in "open" biliogastroduodenal surgery] Popovici A, et al. **Chirurgia (Bucur)** 1996 Jul–Aug;45(4):189–202 (Eng. Abstr.) **(Rum)**

METABOLISM

Coexpression of flt–3 ligand/flt–3 and SCF/c–kit signal transduction system in bile–duct–ligated SI and W mice. Omori M, et al. **Am J Pathol** 1997 Apr;150(4):1179–87
Role of kinases and phosphatases in the regulation of fluid secretion and Cl–/HCO3– exchange in cholangiocytes. Alvaro D, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G303–13
Bile duct epithelium: frontiers in transport physiology. Boyer JL. **Am J Physiol** 1996 Jan;270(1 Pt 1):G1–5 (48 ref.)
Kinetic and molecular identification of sodium–dependent glucose transporter in normal rat cholangiocytes. Lazaridis KN, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1168–74
Ca(2+)–activated Cl– channels in a human biliary cell line: regulation by Ca2+/calmodulin–dependent protein kinase. Schlenker T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G304–10
Hepatobiliary transport mechanism for the cyclopentapeptide endothelin antagonist BQ–123. Shin HC, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G979–86
Antigenic phenotypes common to rat oval cells, primary hepatocellular carcinomas and developing bile ducts. Hixson DC, et al. **Carcinogenesis** 1997 Jun;18(6):1169–75
Defective hepatobiliary leukotriene elimination in patients with the Dubin–Johnson syndrome. Mayatepek E, et al. **Clin Chim Acta** 1996 May 30;249(1–2):37–46
Sodium, hydrogen antiporter activation by extracellular adenosine triphosphate in biliary epithelial cells. Elsing C, et al. **Gastroenterology** 1996 Nov;111(5):1321–32
Bile ducts and portal and central veins are major producers of tumor necrosis factor alpha in regenerating rat liver. Loffreda S, et al. **Gastroenterology** 1997 Jun;112(6):2089–98
In situ nucleic acid hybridization of pyruvate dehydrogenase complex–E2 in primary biliary cirrhosis: pyruvate dehydrogenase complex–E2 messenger RNA is expressed in hepatocytes but not in biliary epithelium. Harada K, et al. **Hepatology** 1997 Jan;25(1):27–32
Abnormal expression of MUC1 apomucin and mature MUC1 mucin in biliary epithelial cells in various cystic liver diseases. Sasaki M, et al. **Hepatology** 1996 Sep;24(3):539–43
Cytosolic Ca2+ and protein kinase Calpha couple cellular metabolism to membrane K+ permeability in a human biliary cell line. Wang Y, et al. **J Clin Invest** 1997 Jun 15;99(12):2890–7
The apoptosis protector, bcl–2 protein, is downregulated in bile duct epithelial cells of human liver allografts. Gapany C, et al. **J Hepatol** 1997 Mar;26(3):535–42
Differential expression of Na+,H(+)–antiporter mRNA in biliary epithelial cells and in hepatocytes. Marti U, et al. **J Hepatol** 1996 Apr;24(4):498–502
Electrolyte transport in bile ductular epithelial cells. Strazzabosco M, et al. **J Hepatol** 1996;24 Suppl 1:78–87 (82 ref.)
Electrolyte transport in biliary epithelia. Kwiatkowski AP, et al. **J Lab Clin Med** 1997 Jul;130(1):8–13 (46 ref.)
Intestinal uptake and biliary excretion of the isoflavone genistein in rats. Sfakianos J, et al. **J Nutr** 1997 Jul; 127(7):1260–8
Effect of bile acids on hepatobiliary transport of cisplatin by perfused rat liver. Villanueva GR, et al. **Pharmacol Toxicol** 1997 Mar;80(3):111–7
Differential expression of the major histocompatibility antigens and ICAM–1 on bile duct epithelial cells in biliary atresia. Dillon PW, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):33–40

PATHOLOGY

Prevention of biliary stent clogging [letter; comment] Cetta F. **Am J Gastroenterol** 1997 Mar;92(3):542–3. Comment on: Am J Gastroenterol 1996 Jul;91(7):1301–8.
Coexpression of flt–3 ligand/flt–3 and SCF/c–kit signal transduction system in bile–duct–ligated SI and W mice. Omori M, et al. **Am J Pathol** 1997 Apr;150(4):1179–87
Magnetic resonance–cholangiopancreatography in the diagnosis of biliopancreatic diseases. Lomanto D, et al. **Am J Surg** 1997 Jul;174(1):33–8
Herpesvirus 6 variant A infection after heart transplantation with giant cell transformation in bile ductular and gastroduodenal epithelium. Randhawa PS, et al. **Am J Surg Pathol** 1997 Jul;21(7):847–53
Concentric fibrosis and cellular infiltration around bile ducts induced by graft–versus–host reaction in mice: a role of CD8+ cells. Inada S, et al. **Autoimmunity** 1995; 22(3):163–71
Bile duct brushings cytology: potential pitfalls in diagnosis. Kocjan G, et al. **Diagn Cytopathol** 1997 Apr;16(4):358–63
Metabolism and excretion of trovafloxacin, a new quinolone antibiotic, in Sprague–Dawley rats and beagle dogs. Effect of bile duct cannulation on excretion pathways. Dalvie DK, et al. **Drug Metab Dispos** 1996 Nov;24(11):1231–40
Clinical significance of magnetic resonance cholangiopancreatography (MRCP) compared to endoscopic retrograde cholangiopancreatography (ERCP). Hintze RE, et al. **Endoscopy** 1997 Mar;29(3):182–7
Choledocholithiasis after Billroth II surgery: MR cholangiographic diagnosis. Holzknecht N, et al. **Eur Radiol** 1997;7(4):520–3
Magnetic resonance cholangiopancreatography. Bearcroft PW, et al. **Gut** 1997 Aug;41(2):135–7 (27 ref.)
A prospective evaluation of cytology from biliary strictures. Mansfield JC, et al. **Gut** 1997 May;40(5):671–7
Percutaneous transhepatic transluminal forceps biopsy in obstructive jaundice. Tsai CC, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):770–3
Prospective study of the detection of anomalous connections of pancreatobiliary ducts during routine medical examinations. Yamao K, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1238–45
Non–invasive evaluation of the biliary tree with magnetic resonance cholangiopancreatography: initial clinical experience. Pavone P, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):63–9
gamma–Interferon inhibits secretin–induced choleresis and cholangiocyte proliferation in a murine model of cirrhosis. Alpini G, et al. **J Hepatol** 1997 Aug;27(2):371–80
Bile ductular proliferation and altered leukotriene elimination in thioacetamide–induced fibrosis of rat liver. Müller D, et al. **J Hepatol** 1996 Oct;25(4):547–53
Sibling occurrence of biliary atresia and biliary dilatation. Ando K, et al. **J Pediatr Surg** 1996 Sep;31(9):1302–4
Biliary cryptosporidiosis in two corn snakes (Elaphe guttata). Cimon KY, et al. **J Vet Diagn Invest** 1996 Jul;8(3):398–9
Preclinical evaluation of Fe–(5–C2H5–EHPG)– as a contrast agent in MR imaging of hepatobiliary system. Sheu RS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Feb; 13(2):75–85
Pancreatitis: evaluation with MR cholangiopancreatography in children. Hirohashi S, et al. **Radiology** 1997 May; 203(2):411–5
MR cholangiopancreatography and MR urography: improved enhancement with a negative oral contrast agent. Hirohashi S, et al. **Radiology** 1997 Apr;203(1):281–5
Magnetic resonance imaging of the bile ducts. Soto JA, et al. **Semin Roentgenol** 1997 Jul;32(3):188–201 (72 ref.)
The role of magnetic resonance cholangiopancreatography (MRCP) after resection of the pancreas. Ishizu H, et al. **Surg Today** 1997;27(3):285–7
Magnetic resonance cholangiopancreatography of the biliary ducts: techniques, clinical applications, and limitations. Barish MA, et al. **Top Magn Reson Imaging** 1996 Oct; 8(5):302–11 (49 ref.)
CMV causes bile duct destruction and arterial lesions in rat liver allografts. Martelius T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):796–7
[A surgical treatment for congenital bile duct dilatation with intrahepatic calculi] Hanyu F, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):626–30 (Eng. Abstr.) **(Jpn)**
[Efficacy of respiratory–triggered fast spin–echo 3 dimensional–MR cholangiopancreatography on middle magnetic field MR imaging] Isomoto I, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):170–5 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Hepatocytes in the bile duct–ligated rat express Bcl–2. Kurosawa H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1587–93
Characterization of cytosolic Ca2+ signaling in rat bile duct epithelia. Nathanson MH, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G86–96
Regulation of cell volume in a human biliary cell line: activation of K+ and Cl– currents. Roman RM, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G239–48
Microsomal and peroxisomal fatty acid oxidation in liver of rats with bile duct ligation and two–thirds hepatectomy. Orellana M, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jan;116(1):33–7
Silymarin retards collagen accumulation in early and advanced biliary fibrosis secondary to complete bile duct obliteration in rats. Boigk G, et al. **Hepatology** 1997 Sep; 26(3):643–9
A new rat bile ductular epithelial cell culture model characterized by the appearance of polarized bile ducts in vitro. Sirica AE, et al. **Hepatology** 1997 Sep;26(3):537–49

PHYSIOPATHOLOGY

Biliary motility following endoscopic sphincterotomy for recurrent common bile duct stones. Ng WW, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Sep; 56(3):159–65
Does intrabiliary pressure predict basal sphincter of Oddi pressure? A study in patients with and without gallbladders. Kalloo AN, et al. **Gastrointest Endosc** 1996 Dec;44(6):696–9

RADIOGRAPHY see CHOLANGIOGRAPHY

RADIONUCLIDE IMAGING

Cholescintigraphy in the diagnosis of bile leak after laparoscopic cholecystectomy. Sandoval BA, et al. **Am Surg** 1997 Jul;63(7):611–6

SECRETION

Bile acids stimulate proliferative and secretory events in large but not small cholangiocytes. Alpini G, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G518–29
Role of antrum in regulation of pancreaticobiliary secretion in humans. Kreiss C, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G844–51
Effect of a synthetic androgen on biliary lipid secretion in the female hamster. Ohshima A, et al. **Lipids** 1996 Aug; 31(8):879–86

SURGERY

Tumor necrosis factor unresponsiveness after surgery in bile duct–ligated rats. Houdijk AP, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G980–6
Laparoscopic cholecystectomy–related bile duct injuries: a health and financial disaster. Savader SJ, et al. **Ann Surg** 1997 Mar;225(3):268–73
Experimental study in bile duct–ligated rats of vasopressin and preoperative volume loading to prevent hypotensive crises. Jacob G, et al. **Br J Surg** 1997 Apr;84(4):483–7
Experimental evaluation of the optimal in–vitro conditions for bipolar electrocoagulation in the bile duct. Offergeld C, et al. **Endoscopy** 1996 Nov;28(9):740–5
Current induction in a fiberglass guidewire compared to conventional wires during simulated papillotomy. O'Brien JW, et al. **Gastrointest Endosc** 1997 Jun;45(6):493–7
Bilioenteric anastomosis reverses hyperkinetic circulation in bile duct–ligated cirrhotic rats. Jalink D, et al. **J Hepatol** 1996 Dec;25(6):924–31
Common bile duct repair with titanium staples. Comparison with suture closure. Leppäniemi A, et al. **Surg Endosc** 1997 Jul;11(7):714–7
Intraoperative biliary tree imaging with cholyl–lysyl–fluorescein: an experimental study in the rabbit. Oddi A, et al. **Surg Laparosc Endosc** 1996 Jun; 6(3):198–200
Bile duct splintage in liver transplantation: is it necessary? Ferraz–Neto BH, et al. **Transpl Int** 1996;9 Suppl 1:S185–7
A prospective randomised trial of bile duct reconstruction at liver transplantation: T tube or no T tube? Vougas V, et al. **Transpl Int** 1996;9(4):392–5
Biliary tract reconstruction after liver transplantation: with or without T–tube? Nuño J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):564–5
[The intraoperative visualization of the bile ducts by the use of fluorescent substances. A feasibility study] Oddi A, et al. **G Chir** 1996 Nov–Dec;17(11–12):620–3 (Eng. Abstr.) **(Ita)**
[Experimental biliary reconstruction with a Dacron graft which preserves the function of papilla Vater] Kazui K. **Hokkaido Igaku Zasshi** 1996 Sep;71(5):599–609 (Eng. Abstr.) **(Jpn)**
[A surgical treatment for congenital bile duct dilatation with intrahepatic calculi] Hanyu F, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):626–30 (Eng. Abstr.) **(Jpn)**
[Antibiotic prophylaxis in biliary surgery (editorial)] Torres García AJ, et al. **An Med Interna** 1997 Mar;14(3):109–10 **(Spa)**
[Intrahepatic biloma. Conservative management with external drainage] García Urguellés X, et al. **Cir Pediatr** 1996 Apr;9(2):85–7 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Endoscopic sphincterotomy assisted by percutaneous transhepatic choledochal tube: a preliminary report. Matsuoka J, et al. **Acta Med Okayama** 1997 Feb;51(1):51–4
Laparoscopic ultrasonography during cholecystectomy. Röthlin MA, et al. **Br J Surg** 1996 Nov;83(11):1512–6
Percutaneous transhepatic intraductal biliary sonography for lymph node staging at 12.5 MHz in malignant bile duct obstruction: work in progress. Duda SH, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):133–8

Ultrasound of the bile ducts. Mittelstaedt CA. **Semin Roentgenol** 1997 Jul;32(3):161–71 (44 ref.)

VIROLOGY

Lack of evidence for rotavirus by polymerase chain reaction/enzyme immunoassay of hepatobiliary samples from children with biliary atresia. Bobo L, et al. **Pediatr Res** 1997 Feb;41(2):229–34

BILE DUCTS, EXTRAHEPATIC

The mode of lymphatic spread in carcinoma of the bile duct. Kurosaki I, et al. **Am J Surg** 1996 Sep;172(3):239–43

Lymphoma of the extrahepatic biliary ducts in acquired immunodeficiency syndrome. Podbielski FJ, et al. **Am Surg** 1997 Sep;63(9):807–10

Post-cholecystectomy external biliary fistula. Singh V, et al. **Aust N Z J Surg** 1997 Apr;67(4):168–72

Intraluminal brachytherapy in the treatment of bile duct carcinomas. Leung JT, et al. **Australas Radiol** 1997 May; 41(2):151–4

Mutations of K-ras but not p53 genes in biliary duct and pancreatic duct carcinomas induced in hamsters by cholecystoduodenostomy with dissection of the common duct followed by N-nitrosobis(2-oxopropyl)amine. Majima T, et al. **Cancer Lett** 1997 Sep 16;118(1):47–53

Assessment of pancreatic parenchymal invasion by bile duct cancer using intraductal ultrasonography. Tamada K, et al. **Endoscopy** 1996 Aug;28(6):492–6

IORT of carcinoma of the extrahepatic bile ducts. Willborn K, et al. **Front Radiat Ther Oncol** 1997;31:173–6

Assessment of the course and variations of the hepatic artery in bile duct cancer by intraductal ultrasonography. Tamada K, et al. **Gastrointest Endosc** 1996 Sep;44(3):249–56

Endoscopic stent therapy for dominant extrahepatic bile duct strictures in primary sclerosing cholangitis. van Milligen de Wit AW, et al. **Gastrointest Endosc** 1996 Sep;44(3):293–9

Hepatic artery-biliary fistula during infusion chemotherapy. Noda M, et al. **Hepatogastroenterology** 1996 Sep–Oct; 43(11):1387–9

Bile ductule formation in fetal, neonatal, and infant livers compared with extrahepatic biliary atresia. Cocjin J, et al. **Hepatology** 1996 Sep;24(3):568–74

Anatomy and etiology of extrahepatic portal vein obstruction in children leading to bleeding esophageal varices [see comments] Ando H, et al. **J Am Coll Surg** 1996 Dec; 183(6):543–7. Comment in: J Am Coll Surg 1996 Dec;183(6):637–9.

New issues concerning the etiology of an old problem [editorial; comment] Ryckman FC. **J Am Coll Surg** 1996 Dec;183(6):637–9 (11 ref.). Comment on: J Am Coll Surg 1996 Dec;183(6):543–7.

Synchronous primary tumors of the extrahepatic bile duct and gallbladder. Kurosaki I, et al. **J Surg Oncol** 1997 Aug; 65(4):258–62

Biliary tree malignancies: the University of Minnesota experience. Lee CK, et al. **J Surg Oncol** 1997 Aug; 65(4):298–305 (27 ref.)

Immunohistochemical detection of proliferating cell nuclear antigen and p53 expression in carcinoma of the extrahepatic bile duct. Suto T, et al. **Oncology** 1997 Sep–Oct; 54(5):407–13

Epidermal growth factor receptor immunoreactivity in gallbladder and extrahepatic biliary tract tumours. Lee CS, et al. **Pathol Res Pract** 1995 Nov;191(11):1087–91

Extrahepatic biliary diseases: 3D MR cholangiopancreatography compared with endoscopic retrograde cholangiopancreatography. Lee MG, et al. **Radiology** 1997 Mar;202(3):663–9

External beam and intraluminal radiotherapy for locally advanced bile duct cancer: role and tolerability. Vallis KA, et al. **Radiother Oncol** 1996 Oct;41(1):61–6

Biliary ascariasis and extrahepatic cholangiocarcinoma [letter] Toufeeq Khan TF, et al. **Singapore Med J** 1995 Oct;36(5):570

Prognostic factors and management of carcinomas of the gallbladder and extrahepatic bile ducts. Lee RG, et al. **Surg Oncol Clin N Am** 1997 Jul;6(3):639–59 (76 ref.)

Prognostic significance of proliferative cell nuclear antigen in carcinoma of the extrahepatic bile duct. Nishida T, et al. **World J Surg** 1997 Jul–Aug;21(6):634–9

[Idiopathic perforation of the extrahepatic bile ducts in a nursing infant] Panov M, et al. **Khirurgiia (Sofiia)** 1996; 49(3):5–7 (13 ref.) (Eng. Abstr.) **(Bul)**

[The trend of the gallstone disease in China over the past decade] Zhu X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):652–8 (Eng. Abstr.) **(Chi)**

[Cancer of the upper 3rd of the extra-hepatic bile ducts: surgical indication] Parc Y, et al. **Presse Med** 1996 Sep 14;25(26):1186–90 (Eng. Abstr.) **(Fre)**

[Carcinoma of the extrahepatic bile ducts] Cappelletti F, et al. **G Chir** 1996 Nov-Dec;17(11–12):589–92 (Eng. Abstr.) **(Ita)**

[Malignant bile duct diseases and jaundice] Mukai H, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):620–8 (5 ref.) **(Jpn)**

[The diagnosis of diseases of the extrahepatic bile ducts] Starosek VN, et al. **Klin Khir** 1996;(9):16–7 **(Rus)**

ABNORMALITIES

[Bile duct cysts in adults] Kupferschmidt H, et al. **Schweiz Med Wochenschr** 1997 Jun 28;127(26):1117–23 (Eng. Abstr.) **(Ger)**

[Neoplasms and congenital abnormalities of extrahepatic bile ducts] Nowicki A, et al. **Pol Merkuriusz Lek** 1996 Sep; 1(3):207–9 (26 ref.) (Eng. Abstr.) **(Pol)**

ANATOMY & HISTOLOGY

[Main variations of the extrahepatic biliary system and their application to the so-called "split-liver" transplantation technique] Chaib E, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1995 Nov–Dec; 50(6):311–3 (Eng. Abstr.) **(Por)**

INJURIES

Conservative treatment of a traumatic tear of the left hepatic duct: case report. Eid A, et al. **J Trauma** 1996 Nov; 41(5):912–3

[Renaissance of the bile duct lesion (editorial)] Siewert JR, et al. **Langenbecks Arch Chir** 1996;381(5):245 **(Ger)**

[Injuries of the extrahepatic bile ducts. Clinical aspects, diagnosis and therapy] Sulkowski U, et al. **Langenbecks Arch Chir** 1996;381(5):246–50 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Metastatic breast carcinoma presenting as obstructive jaundice. Papo M, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2240–1

Biliary stricture measurement and stent selection. Seibert DG. **Am J Gastroenterol** 1997 Sep;92(9):1510–4

Percutaneous cholangioscopy in obstructed biliary metal stents. Hausegger KA, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):191–6

Three-dimensional reconstruction of perineural invasion in carcinoma of the extrahepatic bile ducts. Maxwell P, et al. **J Pathol** 1996 Oct;180(2):142–5

Extrahepatic bile duct hepatocellular carcinoma without primary hepatic parenchymal lesions--a case report. Cho HG, et al. **Korean J Intern Med** 1996 Jun;11(2):169–74

Hyaline cartilage at porta hepatis in extrahepatic biliary atresia. Mirkin LD, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):587–91

Forceps biopsy and brush cytology during endoscopic retrograde cholangiopancreatography for the diagnosis of biliary stenoses. Schoefl R, et al. **Scand J Gastroenterol** 1997 Apr;32(4):363–8

Sclerosing adenocarcinoma of the extrahepatic bile duct in a cat. Pastor J, et al. **Vet Rec** 1997 Apr 5;140(14):367–8

[Cancer of the extrahepatic bile ducts. Clinical experience and anatomic/surgical considerations] La Greca G, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):33–8 (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

[Extrahepatic bile duct movement and bile excretion during vomiting in dogs] Furukawa N, et al. **J Smooth Muscle Res** 1995 Dec;31(6):416–7 **(Jpn)**

RADIOGRAPHY

Diagnostic strategies for extrahepatic cholestasis of indefinite origin: endoscopic ultrasonography or retrograde cholangiography? Results of a prospective study. Burtin P, et al. **Endoscopy** 1997 Jun;29(5):349–55

SURGERY

Surgical biliary bypass for benign and malignant extrahepatic biliary tract disease. Parks RW, et al. **Br J Surg** 1997 Apr; 84(4):488–92

Spontaneous perforation of the biliary tract in infancy: a series of 11 cases. Chardot C, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):341–6

Extended right trisegmentectomy for hilar bile duct carcinoma. Noie T, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):998–1001

Prototype stent: in vivo swine studies in the biliary system. Fontaine AB, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):101–5

Rhabdomyosarcoma of the biliary tree. Sanz N, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):200–1

[Surgery and cystic malformations of the bile ducts] Mosimann F. **Schweiz Med Wochenschr** 1997 May 10; 127(19):829–33 (30 ref.) (Eng. Abstr.) **(Fre)**

[Results of correction of benign bile duct obstructions by bilio-jejunal anastomosis] Trebing G, et al. **Zentralbl Chir** 1996;121(1):51–7 (Eng. Abstr.) **(Ger)**

[Cancer of the extrahepatic bile ducts. Clinical experience and anatomic/surgical considerations] La Greca G, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):33–8 (Eng. Abstr.) **(Ita)**

ULTRASONOGRAPHY

Endoscopic ultrasonography assessment in preoperative staging for carcinoma of ampulla of Vater and extrahepatic bile duct. Zhang Q, et al. **Chin Med J (Engl)** 1996 Aug; 109(8):622–5

Diagnostic strategies for extrahepatic cholestasis of indefinite origin: endoscopic ultrasonography or retrograde cholangiography? Results of a prospective study. Burtin P, et al. **Endoscopy** 1997 Jun;29(5):349–55

Diagnosing extrahepatic bile duct stones using intraductal ultrasonography: a case series. Ueno N, et al. **Endoscopy** 1997 Jun;29(5):356–60

[Intraductal ultrasound in the pancreaticobiliary duct system] Menzel J, et al. **Dtsch Med Wochenschr** 1997 Jan 17; 122(3):41–9; discussion 50 (Eng. Abstr.) **(Ger)**

BILE DUCTS, INTRAHEPATIC

A young female with a cholangiocarcinoma in the past: is pregnancy allowed? Temizkan M, et al. **Acta Gastroenterol Latinoam** 1996;26(1):31–4

Current management of patients with perihilar cholangiocarcinoma. Ahrendt SA, et al. **Adv Surg** 1996; 30:427–52 (117 ref.)

Bile stasis due to bile duct stricture precedes, not follows, the formation of primary intrahepatic stones and plays a basic role in their pathogenesis [letter; comment] Cetta F. **Am J Gastroenterol** 1996 Nov;91(11):2451–2. Comment on: Am J Gastroenterol 1995 Apr;90(4):540–8.

Operative treatment of congenital stenoses of the intrahepatic bile ducts in patients with choledochal cysts. Ando H, et al. **Am J Surg** 1997 Jun;173(6):491–4

Cross-sectional patterns of hepatobiliary abnormalities and possible precursor conditions of cholangiocarcinoma associated with Opisthorchis viverrini infection in humans. Elkins DB, et al. **Am J Trop Med Hyg** 1996 Sep; 55(3):295–301

Portal vein obstruction accompanied by intrahepatic stones. Tanaka K, et al. **Angiology** 1996 Dec;47(12):1151–6

Cholangiocarcinoma. A spectrum of intrahepatic, perihilar, and distal tumors. Nakeeb A, et al. **Ann Surg** 1996 Oct; 224(4):463–73; discussion 473–5

Prognostic factors in hilar cholangiocarcinoma [letter] Sahin M. **Ann Surg** 1997 Jul;226(1):107

Hepatic pulsations in a patient with cholangiocarcinoma [letter] Marinella MA, et al. **Arch Intern Med** 1997 Jan 13;157(1):133, 135

Intraluminal brachytherapy in the treatment of bile duct carcinomas. Leung JT, et al. **Australas Radiol** 1997 May; 41(2):151–4

Hepatolithiasis associated with cholangiocarcinoma. Su CH, et al. **Br J Surg** 1997 Jul;84(7):969–73

What constitutes long-term survival after surgery for hilar cholangiocarcinoma? Klempnauer J, et al. **Cancer** 1997 Jan 1;79(1):26–34 (50 ref.)

Spontaneous rupture of hepatobiliary cystadenoma: a case report. Chang MS, et al. **Chang Keng I Hsueh** 1995 Dec; 18(4):392–7

Case report: malignant transformation of biliary cystadenoma with mesenchymal stroma: documentation by CT. Matsuoka Y, et al. **Clin Radiol** 1997 Apr;52(4):318–21

Intrahepatic cholangiocarcinoma: the role of imaging in detection and staging. Kuszyk BS, et al. **Crit Rev Diagn Imaging** 1997;38(1):59–88 (49 ref.)

The management of high-grade hilar strictures by endoscopic insertion of self-expanding metal endoprostheses. Peters RA, et al. **Endoscopy** 1997 Jan;29(1):10–6

Subcutaneous implantation metastasis of a cholangiocarcinoma of the bile duct after percutaneous transhepatic biliary drainage (PTBD). Loew R, et al. **Eur Radiol** 1997;7(2):259–61

Image of the month. Intrahepatic biliary cystadenocarcinoma with hepatic metastases and peritoneal dissemination. Lazaridis KN, et al. **Gastroenterology** 1997 Jul;113(1):6, 367

Multiple intramural cysts of the bile duct. Akiyama H, et al. **Gastrointest Endosc** 1997 Mar;45(3):310–2

Percutaneous biliary procedures. Uflacker R. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):177–215 (70 ref.)

A retrospective comparison of endoscopic stenting alone with stenting and radiotherapy in non-resectable cholangiocarcinoma. Bowling TE, et al. **Gut** 1996 Dec; 39(96):852–5

Surgical treatment of cholangiocarcinoma. Chou FF, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):760–5

The rupture of hepatic hydatid disease into the right hepatic vein and bile ducts: a case report. Coskun I, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1006–8

Biliary cystadenocarcinoma resected by segment 3 and 4 hepatectomy. Frameglia M, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1029–34

Intrahepatic biliary cystadenoma demonstrated by intraoperative cholangiography. Hanazaki K. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1024–8

Long-term survival after surgery for advanced intrahepatic cholangiocarcinoma: a case report. Hui AM, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):813–6

Factors influencing survival after hepatectomy for peripheral cholangiocarcinoma. Jan YY, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):614–9

Hepatocytic phenotypes induced in sarcomatous cholangiocarcinoma cells treated with 5-azacytidine. Enjoji M, et al. **Hepatology** 1997 Aug;26(2):288–94

Bcl-2 is overexpressed and alters the threshold for apoptosis in a cholangiocarcinoma cell line. Harnois DM, et al. **Hepatology** 1997 Oct;26(4):884–90

Mucinous cholangiocarcinoma: an unusual complication of hepatolithiasis and recurrent pyogenic cholangitis. Chow LT, et al. **Histopathology** 1997 May;30(5):491–4

Obstructive jaundice associated with polycystic liver disease. Dmitrewski J, et al. **HPB Surg** 1996;10(2):117–20

BILE DUCTS, INTRAHEPATIC

Is hepatectomy necessary in dealing with left hepatolithiasis with intrahepatic duct stricture? Franco D. **HPB Surg** 1997; 10(4):265–8

Multidisciplinary conservative treatment of difficult bile duct stones: a real alternative to surgery. Masci E, et al. **HPB Surg** 1997;10(4):229–33; discussion 234

Clonal Epstein–Barr virus associated cholangiocarcinoma with lymphoepithelioma–like component. Hsu HC, et al. **Hum Pathol** 1996 Aug;27(8):848–50

Cystadenoma with mesenchymal stroma mistaken for hepatic hydatid cyst. Kapoor R, et al. **Indian J Gastroenterol** 1997 Apr;16(2):73–4

Clinical results of radiofrequency hyperthermia for malignant liver tumors. Nagata Y, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):359–65

Long–term results of hepatic artery fluorodeoxyuridine and conformal radiation therapy for primary hepatobiliary cancers. Robertson JM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):325–30

Postoperative aggravation of hypercalcemia–leukocytosis syndrome in a case of squamous cell type cholangiocarcinoma [letter] Aizawa M, et al. **Intern Med** 1997 Mar;36(3):232

Development of intrahepatic cholelithiasis long after primary excision of choledochal cysts [see comments] Uno K, et al. **J Am Coll Surg** 1996 Dec;183(6):583–8. Comment in: J Am Coll Surg 1997 Aug;185(2):198–200.

Possible role of hepatic bile mucus glycoprotein in development of intrahepatic gallstones. Akaishi S, et al. **J Gastroenterol** 1995 Dec;30(6):758–63

Multiple hilar cysts of the liver in patients with alcoholic cirrhosis: report of three cases. Fujioka Y, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):137–43

Case report: intrahepatic cholangiocarcinoma with rhabdoid transformation. Honda M, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):771–4

Heterogeneity of the "oval–cell" response in the hamster liver during cholangiocarcinogenesis following Clonorchis sinensis infection and dimethylnitrosamine treatment. Lee JH, et al. **J Hepatol** 1997 Jun;26(6):1313–23

Inferior segmentectomy IV: a surgical approach for hilar cholangiocarcinoma. Wattanasirichaigoon S. **J Med Assoc Thai** 1996 Dec;79(12):774–8

Cutaneous stoma in the roux limb of hepaticojejunostomy (hepaticocutaneous jejunostomy): useful access for intrahepatic stone extraction. Saing H, et al. **J Pediatr Surg** 1996 Feb;31(2):247–50

Primary intrahepatic biliary cystadenomatous tumors. Tsiftsis D, et al. **J Surg Oncol** 1997 Apr;64(4):341–6

Measurement of lactate levels in serum and bile using proton nuclear magnetic resonance in patients with hepatobiliary diseases: its utility in detection of malignancies. Nishijima T, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):13–7

Intrahepatic cholangiocarcinoma presenting intrabile duct extension: clinicopathologic study of five resected cases. Yamamoto J, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):18–21

A combined hepatocellular/cholangiocellular carcinoma with sarcomatoid features. Papotti M, et al. **Liver** 1997 Feb; 17(1):47–52

Unilobar intrahepatic lithiasis 22 years after cholecystectomy. Ruebenacker C, et al. **N J Med** 1996 Feb;93(2):97–8

Caroli's syndrome associated with medullary sponge kidney and nephrocalcinosis. Mrowka C, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1142–5

Multiloculated cystic liver lesions: radiologic–pathologic differential diagnosis. Singh Y, et al. **Radiographics** 1997 Jan–Feb;17(1):219–24

Hilar cholangiocarcinomas: T2–weighted spin–echo and gadolinium–enhanced FLASH MR imaging. Guthrie JA, et al. **Radiology** 1996 Nov;201(2):347–51

US–guided left–sided biliary drainage: nine–year experience. Hayashi N, et al. **Radiology** 1997 Jul;204(1):119–22

Primary sclerosing cholangitis and liver transplantation. Klompmaker IJ, et al. **Scand J Gastroenterol Suppl** 1996; 218:98–102 (42 ref.)

Biliary ascariasis and extrahepatic cholangiocarcinoma [letter] Toufeeq Khan TF, et al. **Singapore Med J** 1995 Oct;36(5):570

Late development of bile duct cancer after sphincteroplasty: a ten– to twenty–two–year follow–up study. Hakamada K, et al. **Surgery** 1997 May;121(5):488–92

Hepatitis C virus genotypes in patients with hepatocellular carcinoma and cholangiocarcinoma in Thailand. Songsivilai S, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):505–7

Amoebic liver abscess communicating with intrahepatic bile ducts. Misra SP, et al. **Trop Doct** 1997 Jul;27(3):181–2

Intrahepatic cholangiocarcinoma. Chu KM, et al. **World J Surg** 1997 Mar–Apr;21(3):301–5; discussion 305–6

[The trend of the gallstone disease in China over the past decade] Zhu X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):652–8 (Eng. Abstr.) **(Chi)**

[Cathepsin B–like substance in the monitoring of chemically induced primary cholangiocarcinoma in swine] Dufek V, et al. **Vnitr Lek** 1996 Aug;42(8):551–4 (Eng. Abstr.) **(Cze)**

[Surgical treatment of intrahepatic cholangiocarcinoma] Lamesch P, et al. **Chirurgie** 1997;122(2):88–91 (24 ref.) (Eng. Abstr.) **(Fre)**

[Cholangiocarcinoma: a rare cause of chylous ascites (letter)] Epeirier JM, et al. **Gastroenterol Clin Biol** 1995 Dec; 19(12):1062 **(Fre)**

[Percutaneous and transpapillary laser lithotripsy of intrahepatic gallstones] Jakobs R, et al. **Dtsch Med Wochenschr** 1997 Mar 14;122(11):317–22 (Eng. Abstr.) **(Ger)**

[Palliative therapy of carcinomas of the biliary system] Lersch C, et al. **Med Klin** 1997 Jul 15;92(7):401–5 (52 ref.) (Eng. Abstr.) **(Ger)**

[Resection therapy in the treatment of intrahepatic biliary lithiasis] Napolitano L, et al. **Ann Ital Chir** 1996 Sep–Oct; 67(5):647–50; discussion 651 (Eng. Abstr.) **(Ita)**

[Mirizzi's syndrome as the cause of intrahepatic lithiasis. A clinical case] Astuni M, et al. **Minerva Chir** 1997 May; 52(5):639–42 (20 ref.) (Eng. Abstr.) **(Ita)**

[Biliary cystadenoma. A report of 2 cases] Colecchia G, et al. **Minerva Chir** 1997 May;52(5):635–8 (12 ref.) (Eng. Abstr.) **(Ita)**

[A case of advanced cholangiocellular carcinoma treated successfully by percutaneous isolated liver perfusion with cisplatin] Maeda I, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1607–9 (Eng. Abstr.) **(Jpn)**

[A case of successful management of advanced cholangiocellular carcinoma by repeated hepatic resection] Nakano H, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1603–6 (Eng. Abstr.) **(Jpn)**

[A surgical treatment for congenital bile duct dilatation with intrahepatic calculi] Hanyu F, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):626–30 (Eng. Abstr.) **(Jpn)**

[Congenital dilatation and stricture of the bile duct as a cause of primary intrahepatic calculi] Matsumoto Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):611–7 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Surgical treatment of hilar cholangiocarcinoma] Nagino M, et al. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):491–4 (36 ref.) (Eng. Abstr.) **(Jpn)**

[Intrahepatic bile duct carcinoma (cholangiocarcinoma)] Taoka H, et al. **Nippon Geka Gakkai Zasshi** 1997 May; 98(5):484–90 (23 ref.) (Eng. Abstr.) **(Jpn)**

[Development of intrahepatic cholelithiasis long after primary excision of choledochal cysts] Uno K, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):606–10 (Eng. Abstr.) **(Jpn)**

[Non–surgical treatment of intrahepatic calculi] Yamakawa T, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):631–6 (Eng. Abstr.) **(Jpn)**

[Clinical pathology of cholangiocarcinoma (intrahepatic bile duct cancer)] Yamamoto M. **Nippon Geka Hokan** 1995 Nov 1;64(6):129–30 **(Jpn)**

[A case of intrahepatic cholangiocellular carcinoma associated with primary biliary cirrhosis] Dohmen K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):361–5 (19 ref.) **(Jpn)**

[A case of double cancer, cholangiocellular and hepatocellular carcinoma associated with autoimmune hepatitis] Kanemasa H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):915–20 **(Jpn)**

[A resected case of cholangiocellular carcinoma associated with HCV antibody–positive liver cirrhosis] Saitoh S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):131–6 **(Jpn)**

[Adenocarcinoma arising from gallbladder fosa with duodenal involvement 14 years after cholecystectomy: a case report] Shimizu K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):857–61 **(Jpn)**

[Distal intrahepatic biliary tract diseases in adults: cholangitis and loss of ducts] Bruguera M. **Med Clin (Barc)** 1996 Sep 21;107(9):338–41 (43 ref.) **(Spa)**

[Hepatic resection as treatment in 2 cases of intrahepatic lithiasis of different etiology (letter)] Martínez Isla A, et al. **Rev Esp Enferm Dig** 1996 Aug;88(8):582–3 **(Spa)**

[Vanishing bile ducts syndrome] Aguirre García J. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S61–2 **(Spa)**

ABNORMALITIES

Postoperative bile peritonitis caused by division of an aberrant bile duct in the left triangular ligament of the liver. Iso Y, et al. **Am J Gastroenterol** 1996 Nov;91(11):2428–30

A rare anomaly of the biliary tree: the interhepatic duct. Häfner M, et al. **Gastrointest Endosc** 1997 Jun;45(6):523–5

Current problems with intrahepatic bile duct stones in Japan––congenital biliary malformations as a cause. Fujii H, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):328–41

Aberrant right posterior biliary duct: detection by intravenous cholangiography with helical CT. Murakami T, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):733–4

Percutaneous removal of biliary stone from anomalous right hepatic duct. ul Haq T, et al. **JPMA J Pak Med Assoc** 1997 Mar;47(3):94–6

Accessory hepatic duct associated with a choledochal cyst. Duh YC, et al. **Pediatr Surg Int** 1997;12(1):54–6

[Bile duct cysts in adults] Kupferschmidt H, et al. **Schweiz Med Wochenschr** 1997 Jun 28;127(26):1117–23 (Eng. Abstr.) **(Ger)**

[Radiologic general practice case. Cystic enlarged intrahepatic bile ducts, congenital liver fibrosis and sponge kidney: Caroli syndrome] Wiesner W, et al. **Schweiz Rundsch Med Prax** 1997 Jun 11;86(24):1035–7 **(Ger)**

ANATOMY & HISTOLOGY

Variations of the intrahepatic bile ducts: application in living related liver transplantation and splitting liver transplantation. Cheng YF, et al. **Clin Transplant** 1997 Aug; 11(4):337–40

Anatomic dissociation between the intrahepatic bile duct and portal vein: risk factors for left hepatectomy. Cheng YF, et al. **World J Surg** 1997 Mar–Apr;21(3):297–300

CYTOLOGY

Development and initial application of an in vitro model of apoptosis in rodent cholangiocytes. Que FG, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G106–15

Pluripotential liver stem cells: facultative stem cells located in the biliary tree. Alison MR, et al. **Cell Prolif** 1996 Jul; 29(7):373–402 (150 ref.)

The pathobiology of biliary epithelia. Roberts SK, et al. **Gastroenterology** 1997 Jan;112(1):269–79

Biliary epithelial cells: innocent victims or active participants in immune–mediated liver disease? [editorial; comment] Adams DH. **J Lab Clin Med** 1996 Dec;128(6):528–30 (27 ref.). Comment on: J Lab Clin Med 1996 Dec;128(6):536–44.

Phenotypical and functional characterization of intrahepatic bile duct cells from common duct ligated mice [see comments] Hu W, et al. **J Lab Clin Med** 1996 Dec; 128(6):536–44. Comment in: J Lab Clin Med 1996 Dec;128(6):528–30.

[Coculture of human hepatocytes and bile duct epithelial cells in collagen gel: formation of 2–dimensional, liver–like structures in vitro] Auth MK, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:163–6 (Eng. Abstr.) **(Ger)**

[Intercalated (basal) epitheliocytes and the regeneration of cholangiocytic epithelium in the liver] Droblenkov AV. **Morfologiia** 1997;111(2):88–93 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

[Echographic aspects of Caroli disease] Ruffa G, et al. **Minerva Pediatr** 1996 Jul–Aug;48(7–8):337–40 (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

Matrix metalloproteinase activity in human intrahepatic biliary epithelial cell lines from patients with autosomal dominant polycystic kidney disease. Murray SL, et al. **Connect Tissue Res** 1996;33(4):249–56

IMMUNOLOGY

Immunogenicity of biliary epithelium: study of the adhesive interaction with lymphocytes. Leon MP, et al. **Gastroenterology** 1997 Mar;112(3):968–77

Immunogenicity of biliary epithelium: investigation of antigen presentation to CD4+ T cells. Leon MP, et al. **Hepatology** 1996 Sep;24(3):561–7

INJURIES

Endoscopic management of perforation of right hepatic duct following non–surgical abdominal trauma. Sharma BC, et al. **HPB Surg** 1997;10(4):245–7

Biliary venous fistula: an unusual complication of fine–needle aspiration biopsy of the liver. Patel RI, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):953–6

Combined percutaneous and surgical drainage of an anomalous bile duct system clipped during laparoscopic cholecystectomy [letter] Short KA, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):614–5

METABOLISM

Molecular and functional heterogeneity of cholangiocytes from rat liver after bile duct ligation. Alpini G, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G289–97

Carrier–mediated transport of conjugated bile acids across the basolateral membrane of biliary epithelial cells. Benedetti A, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1416–24

Prolactin increases ATP–dependent taurocholate transport in canalicular plasma membrane from rat liver. Liu Y, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G46–53

Na(+)–dependent and –independent Cl–/HCO–3 exchange mediate cellular HCO3– transport in cultured human intrahepatic bile duct cells. Strazzabosco M, et al. **Hepatology** 1997 Apr;25(4):976–85

Expression of blood group–related antigens in cholangiocarcinoma in relation to non–neoplastic bile ducts. Minato H, et al. **Histopathology** 1996 May; 28(5):411–9

Solute and water transport pathways in cholangiocytes. Marinelli RA, et al. **Semin Liver Dis** 1996 May;16(2):221–9 (90 ref.)

[Prolactin receptors in bile duct cells during rat ontogenesis] Petrashchuk OM, et al. **Biull Eksp Biol Med** 1996 Dec; 122(12):669–72 **(Rus)**

PATHOLOGY

Primary biliary tract malignant melanoma. Gates J, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):453–5

Radiologically identifiable intratumoral portal vein in intrahepatic cholangiomas: a diagnostic pitfall. Kaneko K,

et al. **Abdom Imaging** 1996 Sep–Oct;21(5):445–7
Choledochal cyst with adenocarcinoma in the cystically dilated intrahepatic bile duct. Tajiri K, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):190–3
Combined hepatocellular–cholangiocarcinoma. Cytologic findings in four cases. Dusenbery D. **Acta Cytol** 1997 May–Jun;41(3):903–9
MR cholangiography in the examination of patients with biliary–enteric anastomoses. Pavone P, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):807–11
Spontaneous rupture of a bile duct and its endoscopic management in a patient with Caroli's syndrome. Chalasani N, et al. **Am J Gastroenterol** 1997 Jun;92(6):1062–3
Magnetic resonance cholangiography in hepatolithiasis. Kubo S, et al. **Am J Gastroenterol** 1997 Apr;92(4):629–32
Metastatic cholangiocarcinoma presenting as ovarian cancer: a rare Krukenberg tumor. Sharma P, et al. **Am J Gastroenterol** 1997 Mar;92(3):531–3
Percutaneous cholangioscopy in obstructed biliary metal stents. Hausegger KA, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):191–6
Biliary stricture due to hepatocellular carcinoma: diagnosis by bile duct brushing cytology. Dusenbery D. **Diagn Cytopathol** 1997 Jan;16(1):55–6
Hepatobiliary cystadenocarcinoma without ovarian stroma and normal CA 19–9 levels. Unusually prolonged evolution. Horsmans Y, et al. **Dig Dis Sci** 1997 Jul; 42(7):1406–8
A case of idiopathic portal hypertension complicated with narrowing of intrahepatic bile ducts. Hikichi T, et al. **Fukushima J Med Sci** 1996 Dec;42(1–2):31–7
Modern imaging in the evaluation of hepatolithiasis. Chan FL, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):358–69 (60 ref.)
Malignancy associated with hepatolithiasis. Chu KM, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):352–7
Argyrophilic nucleolar organizer regions (AgNOR) of resected intrahepatic cholangiocellular carcinomas. Hayashi H, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):440–4
Morphology of intrahepatic duct in surgical treatment of hepatolithiasis. Ker CG, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):317–21
Adenosquamous carcinoma with different morphologic and histologic components arising from the intrahepatic bile duct: report of a case. Ochiai T, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):663–6
Hepatolithiasis: epidemiology and classification. Pausawasdi A, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):314–6
Bile duct hamartomas: diagnostic problems and treatment. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):994–7
Intrahepatic cholangiocarcinoma presenting intrabile duct tumor growth: report of a case. Sano T, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):667–70
Hepatic recurrence of cholangiolocellular carcinoma: report of a case. Yamamoto M, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1046–50
Liver transplantation: does prolonged storage promote non–anastomatic biliary strictures [correction of structures] ? Kahn D. **HPB Surg** 1996;9(2):113–5
Magnetic resonance cholangiography as sole pre–operative determinant of resectability in hilar cholangiocarcinoma. Govil S, et al. **Indian J Gastroenterol** 1997 Jul;16(3):103–4
Solitary cystic dilatation of the intrahepatic bile duct. Ohmoto K, et al. **J Clin Pathol** 1997 Jul;50(7):617–8
Intrahepatic cholangiocarcinoma: MRI and pathologic correlation in 14 patients. Vilgrain V, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):59–65
Intrahepatic bile duct injury and nodular regenerative hyperplasia of the liver in a patient with polyarteritis nodosa. Goritsas CP, et al. **J Hepatol** 1997 Mar; 26(3):727–30
Alpha–smooth muscle actin–positive stromal cells in cholangiocarcinomas, hepatocellular carcinomas and metastatic liver carcinomas. Terada T, et al. **J Hepatol** 1996 Jun;24(6):706–12
MR signal intensity changes in hepatic parenchyma with ductal dilation caused by intrahepatic cholangiocarcinoma. Yoshimitsu K, et al. **J Magn Reson Imaging** 1997 Jan–Feb; 7(1):136–41
Stent–graft as treatment for TIPS–biliary fistula. Cohen GS, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):665–8
Intraductal biliary biopsy: comparison of three techniques. Savader SJ, et al. **J Vasc Interv Radiol** 1996 Sep–Oct; 7(5):743–50
A combined hepatocellular/cholangiocellular carcinoma with sarcomatoid features. Papotti M, et al. **Liver** 1997 Feb; 17(1):47–52
Idiopathic biliary ductopenia in adults without symptoms of liver disease [see comments] Moreno A, et al. **N Engl J Med** 1997 Mar 20;336(12):835–8. Comment in: N Engl J Med 1997 Jul 24;337(4):280–1.
Idiopathic biliary ductopenia [letter; comment] Perez–Atayde AR. **N Engl J Med** 1997 Jul 24;337(4):280–1. Comment on: N Engl J Med 1997 Mar 20;336(12):835–8.
Hepatic tumor invasion of bile ducts: wedge–shaped sign on MR images. Muramatsu Y, et al. **Radiology** 1997 Oct; 205(1):81–5
Ultrastructural characteristics of liver fluke associated human cholangiocarcinoma cell lines. Sriurairatana S, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):57–62
Cholangiocarcinoma in a goat. Rodríguez F, et al. **Vet Rec** 1996 Aug 10;139(6):143–4
A case of equine cholangiocarcinoma displaying aberrant expression of p53 protein. Sironi G, et al. **Vet Rec** 1997 Jul 19;141(3):77–8
[Giant hepatic hemangioma causing dilatation of the intrahepatic biliary ducts] Issahar–Zadeh A, et al. **J Radiol** 1997 May;78(5):381–4 (Eng. Abstr.) **(Fre)**
[27–year–old patient with asymptomatic cholestasis and liver tumor] Möllers M, et al. **Internist (Berl)** 1996 Sep; 37(9):931–5 **(Ger)**
[Associated complication of biliary atresia: cystic dilatation of intrahepatic biliary system] Kawarasaki H, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):653–6 (Eng. Abstr.) **(Jpn)**
[Surgical strategy for the treatment of congenital biliary dilatation based on the location of intrahepatic bile duct dilatation] Miyano T, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):618–25 (18 ref.) (Eng. Abstr.) **(Jpn)**
[The structure of the terminal portions of the biliary tract of the liver and ductular hyperplasia] Droblenkov AV. **Morfologiia** 1996;110(5):96–100 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Normal and abnormal development of the human intrahepatic biliary system: a review. Terada T, et al. **Tohoku J Exp Med** 1997 Jan;181(1):19–32 (65 ref.)
Endocytosis in rat intrahepatic bile duct epithelial cells of horseradish peroxidase injected into the common bile duct or the portal vein. Yamamoto T, et al. **Tohoku J Exp Med** 1996 Nov;180(3):197–208

PHYSIOPATHOLOGY

Molecular and functional heterogeneity of cholangiocytes from rat liver after bile duct ligation. Alpini G, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G289–97

RADIOGRAPHY

Carcinosarcoma of the extrahepatic bile ducts: cholangiographic and CT appearance. Loud PA, et al. **Abdom Imaging** 1997 Jan–Feb;22(1):85–6
Role of ERCP in the diagnosis of intraductal papillary mucinous neoplasms. Pavone E, et al. **Am J Gastroenterol** 1997 May;92(5):887–90
Case report: biliary cystadenoma with mucin–secretion mimicking a simple hepatic cyst. Matsumoto S, et al. **Clin Radiol** 1997 Apr;52(4):316–8
The use of ERCP in the study of patients with hepatic echinococcosis before and after surgical intervention. Spiliadis C, et al. **Gastrointest Endosc** 1996 Jun;43(6):575–9
Case of bile duct carcinoma of the hepatic hilus with segmental obstructive cholangitis. Sakamoto E, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):501–5
Combined hepatocellular and cholangiocarcinoma: correlation between CT findings and clinicopathological features. Fukukura Y, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):52–8
Liver metastases from colon cancer with intra–bile duct tumor growth: radiologic features. Jinzaki M, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):656–60
Primary sclerosing cholangitis in Arab children: report of four cases and literature review. Kagalwalla AF, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):146–52
Analysis of biliary drainage in the caudate lobe of the liver: comparison of three–dimensional CT cholangiography and rotating cine cholangiography. Furukawa H, et al. **Radiology** 1997 Jul;204(1):113–7
Peripheral cholangiocarcinoma of the liver: two–phase spiral CT findings. Kim TK, et al. **Radiology** 1997 Aug; 204(2):539–43
Cholangiocarcinoma: delayed CT contrast enhancement patterns. Lacomis JM, et al. **Radiology** 1997 Apr; 203(1):98–104
[Computerized tomography differentiation of hepatocellular carcinoma and cholangiocellular tumors] Zwicker C, et al. **Aktuelle Radiol** 1997 Mar;7(2):74–8 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Caroli's disease: functional diagnosis using 99mTc diethyl–iminodiacetic acid (IDA) hepatobiliary scintigraphy. Lai FM, et al. **Singapore Med J** 1997 Apr; 38(4):164–5

SECRETION

Large but not small intrahepatic bile ducts are involved in secretin–regulated ductal bile secretion. Alpini G, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1064–74

SURGERY

MR cholangiography in the examination of patients with biliary–enteric anastomoses. Pavone P, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):807–11
A western surgical experience of peripheral cholangiocarcinoma. Berdah SV, et al. **Br J Surg** 1996 Nov; 83(11):1517–21
Role of hepatic resection in surgery for bilateral intrahepatic stones. Chen MF, et al. **Br J Surg** 1997 Sep;84(9):1229–32
Postoperative choledochoscopic removal of intrahepatic stones via a T tube tract. Cheung MT. **Br J Surg** 1997 Sep;84(9):1224–8
Intrahepatic segment III cholangiojejunostomy in advanced carcinoma of the gallbladder. Kapoor VK, et al. **Br J Surg** 1996 Dec;83(12):1709–11
Surgical treatment of patients with mixed hepatocellular carcinoma and cholangiocarcinoma [see comments] Nakamura S, et al. **Cancer** 1996 Oct 15;78(8):1671–6. Comment in: Cancer 1997 Aug 1;80(3):514–6.
Cannulatome–aided selective intrahepatic bile duct cannulation [letter] Ching CK, et al. **Gastrointest Endosc** 1996 Jun;43(6):632–3
New technique for bilateral metal mesh stent insertion to treat hilar cholangiocarcinoma. Silverman W, et al. **Gastrointest Endosc** 1996 Jan;43(1):61–3
Directed guide wire placement during ERCP using a papillotome. Slivka A. **Gastrointest Endosc** 1996 Aug; 44(2):187–9
Intrahepatic cholangiocarcinoma with a long–term survival of 12 years after surgical resection: report of a case and review of the literature. Horie Y, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):506–9 (17 ref.)
Surgical treatment of hilar strictures in hepatolithiasis. Huang JF, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):322–7
Treatment of intrahepatic biliary stricture associated with hepatolithiasis. Jeng KS. **Hepatogastroenterology** 1997 Mar–Apr;44(14):342–51
Long–term results of hepatic resection for hepatolithiasis. Sato M, et al. **HPB Surg** 1995;9(1):37–41
The potential role of intraoperative ultrasonography in the surgical treatment of hilar cholangiocarcinoma. Watanapa P, et al. **HPB Surg** 1996;9(2):93–6
A new technique for assessing the resectability of hilar cholangiocarcinoma: lifting of the umbilical portion of the portal vein. Shirai Y, et al. **J Am Coll Surg** 1997 Jan; 184(1):80–3
Resectional surgery of hilar cholangiocarcinoma: a multivariate analysis of prognostic factors. Klempnauer J, et al. **J Clin Oncol** 1997 Mar;15(3):947–54
Intrahepatic biliary–enteric bypass for complete extrahepatic biliary obstruction in children. Blanchard H, et al. **J Pediatr Surg** 1997 Jun;32(6):902–4
Quality improvement guidelines for percutaneous transhepatic cholangiography and biliary drainage. Society of Cardiovascular and Interventional Radiology. Burke DR, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):677–81
Cholangiocarcinoma. Marcos–Alvarez A, et al. **Surg Oncol Clin N Am** 1996 Apr;5(2):301–16 (86 ref.)
[Biliary–enteric anastomosis: role of cholangiography with magnetic resonance] Pavone P, et al. **Radiol Med (Torino)** 1996 Sep;92(3):247–51 (Eng. Abstr.) **(Ita)**
[Surgical strategy for the treatment of congenital biliary dilatation based on the location of intrahepatic bile duct dilatation] Miyano T, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):618–25 (18 ref.) (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Cholangiocarcinoma at the hepatic hilus: sonographic findings. Hann LE, et al. **AJR Am J Roentgenol** 1997 Apr; 168(4):985–9
The potential role of intraoperative ultrasonography in the surgical treatment of hilar cholangiocarcinoma. Watanapa P, et al. **HPB Surg** 1996;9(2):93–6
[Ultrasonographic anomalies of intrahepatic biliary ducts: contribution of the comet–tail image] Vullierme MP, et al. **Gastroenterol Clin Biol** 1997;21(2):103–8 (Eng. Abstr.) **(Fre)**

ULTRASTRUCTURE

Histological changes of the liver in experimental graft–versus–host disease across minor histocompatibility barriers. VIII. Role of eosinophil infiltration. Nonomura A, et al. **Liver** 1996 Feb;16(1):42–7

VIROLOGY

Demonstration of duck hepatitis B virus in bile duct epithelial cells: implications for pathogenesis and persistent infection. Nicoll AJ, et al. **Hepatology** 1997 Feb;25(2):463–9
[Expression and significance of hepatitis B virus genes in human primary intrahepatic cholangiocarcinoma and its surrounding tissue] Wang W, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):127–30 (Eng. Abstr.) **(Chi)**

BILE PIGMENTS

The ability of bile to scavenge superoxide radicals and pigment gallstone formation in guinea pigs. Lin C, et al. **HPB Surg** 1996;10(2):73–6; discussion 76–7

ANALYSIS

Pigment cholelithiasis induced by vitamin A and its prevention by butylated hydroxytoluene. Cardenas R, et al. **Arch Med Res** 1996 Spring;27(1):71–5
Variations in pigment and carbohydrate content of gallbladder bile affect accurate quantitation of total protein

BILE PIGMENTS

when using the fluorescamine method. Ginanni Corradini S, et al. **Scand J Gastroenterol** 1997 Apr;32(4):340–9

BLOOD

Serum bilirubin pigments covalently linked to albumin. Gordon ER, et al. **Arch Pathol Lab Med** 1996 Jul; 120(7):648–53

CHEMISTRY

Bilin chromophores as reporters of unique protein conformations of phycocyanin 645. MacColl R, et al. **Biochemistry** 1996 Dec 3;35(48):15436–9

Synthesis of water-soluble bile pigments bound to amine-ended monomethoxypolyethyleneglycol: thiol addition and attempted enzymatic reduction of a bilindione derivative. Salamí S, et al. **Cell Mol Life Sci** 1997 Mar; 53(3):248–6

Aqueous dissociation constants of bile pigments and sparingly soluble carboxylic acids by 13C NMR in aqueous dimethyl sulfoxide: effects of hydrogen bonding. Trull FR, et al. **J Lipid Res** 1997 Jun;38(6):1178–88

METABOLISM

Methionine, but not taurine, protects against formation of canine pigment gallstones. Christian JS, et al. **J Surg Res** 1996 Feb 15;61(1):275–81

PHARMACOLOGY

Bile pigments as HIV-1 protease inhibitors and their effects on HIV-1 viral maturation and infectivity in vitro. McPhee F, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):681–6

BILE REFLUX

COMPLICATIONS

Bile reflux in columnar-lined esophagus. Vaezi MF, et al. **Gastroenterol Clin North Am** 1997 Sep;26(3):565–82 (48 ref.)

The relationship between acid and bile reflux and symptoms in gastro–oesophageal reflux disease. Marshall RE, et al. **Gut** 1997 Feb;40(2):182–7

[Interrelationship of reflux bile acid concentration and the gastric mucosal change with reference to the pathophysiologic significance of taurine conjugated deoxycholic acid and chenodeoxycholic acid] Toyoshima A, et al. **Nippon Ika Daigaku Zasshi** 1996 Aug;63(4):268–74 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Bilious vomiting in a 9-month-old infant. Brennan DF. **Acad Emerg Med** 1997 Jul;4(7):706–10

Automated oesophageal reflux sampler--a new device used to monitor bile acid reflux in patients with gastro–oesophageal reflux disease. Nehra D, et al. **J Med Eng Technol** 1997 Jan-Feb;21(1):1–9

ETIOLOGY

Biliary reflux due to sphincter of Oddi ablation: a new pathogenetic explanation for long-term major biliary symptoms after endoscopic-sphincterotomy. Bordas JM, et al. **Endoscopy** 1996 Sep;28(7):642

[Changes in secretion of cholecystokinin after cholecystectomy and the effect of these changes on biliary reflux and the state of the gastric mucosa] Muszyński J, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):190–2 (Eng. Abstr.) **(Pol)**

METABOLISM

[Gastric reflux of taurocholic acid in peptic ulcer: symptoms and drug therapy] Matsuhisa T. **J Smooth Muscle Res** 1995 Dec;31(6):367–70 **(Jpn)**

PREVENTION & CONTROL

Biliary diversion. A new method to prevent enterogastric reflux and reverse the Roux stasis syndrome. Madura JA, et al. **Arch Surg** 1997 Mar;132(3):245–9

SURGERY

Roux-en-Y biliary diversion: a worthwhile procedure? Skinner PP, et al. **J R Coll Surg Edinb** 1996 Feb;41(1):14–6

VETERINARY

Duodeno-abomasal reflux in cows with abomasal displacement. Geishauser T, et al. **Zentralbl Veterinarmed A** 1996 Sep;43(7):445–50

BILE SALTS see **BILE ACIDS AND SALTS**

BILHARZIA see **SCHISTOSOMA**

BILHARZIASIS see **SCHISTOSOMIASIS**

BILIARY ATRESIA

Biliary atresia. Middlesworth W, et al. **Curr Opin Pediatr** 1997 Jun;9(3):265–9 (29 ref.)

Proceedings of the 6th International Sendai Symposium on Biliary Atresia. Japan, May 20–21, 1996. **Tohoku J Exp Med** 1997 Jan;181(1):1–244

BLOOD

Nephromegaly and elevated hepatocyte growth factor in children with biliary atresia. Tsau YK, et al. **Am J Kidney Dis** 1997 Feb;29(2):188–92

Several mechanisms contribute to the abnormal fatty acid composition of serum phospholipids and cholesterol esters in cholestatic children with extrahepatic biliary atresia. Robberecht E, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Mar; 56(3):199–204

COMPLICATIONS

A relapse of paratyphoid fever after treatment with ciprofloxacin in a child with congenital biliary atresia. Eltringham IJ, et al. **Acta Paediatr** 1997 May;86(5):547–8

Splenic infarction in a child with portal hypertension secondary to biliary atresia. Matsui A, et al. **J Pediatr Surg** 1997 Apr;32(4):648–9

Several mechanisms contribute to the abnormal fatty acid composition of serum phospholipids and cholesterol esters in cholestatic children with extrahepatic biliary atresia. Robberecht E, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Mar; 56(3):199–204

Further observations on cystic dilatation of the intrahepatic biliary system in biliary atresia after hepatic portoenterostomy: report on 10 cases. Kawarasaki H, et al. **Tohoku J Exp Med** 1997 Jan;181(1):175–83

[Associated complication of biliary atresia: cystic dilatation of intrahepatic biliary system] Kawarasaki H, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):653–6 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Assay of gamma-glutamyl transpeptidase activity in amniotic fluid offers a possible prenatal diagnosis of biliary atresia in the rat model. Hosoda Y, et al. **Prenat Diagn** 1997 Jan; 17(1):9–12

[Prenatal diagnosis of biliary atresia associated with choledochal cyst] Ibáñez V, et al. **Cir Pediatr** 1996 Oct; 9(4):135–7 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Branched chain amino acids improve body composition and nitrogen balance in a rat model of extra hepatic biliary atresia. Sokal EM, et al. **Pediatr Res** 1996 Jul;40(1):66–71

DRUG THERAPY

Growth hormone insensitivity in children with biliary atresia. Bucuvalas JC, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug; 23(2):135–40

EMBRYOLOGY

Bile ductule formation in fetal, neonatal, and infant livers compared with extrahepatic biliary atresia. Cocjin J, et al. **Hepatology** 1996 Sep;24(3):568–74

[Prenatal diagnosis of biliary atresia associated with choledochal cyst] Ibáñez V, et al. **Cir Pediatr** 1996 Oct; 9(4):135–7 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Lack of evidence for seasonal variation in extrahepatic biliary atresia during infancy. Ayas MF, et al. **J Clin Gastroenterol** 1996 Jun;22(4):292–4

Epidemiology of biliary atresia: a population-based study. Yoon PW, et al. **Pediatrics** 1997 Mar;99(3):376–82

Japanese Biliary Atresia Registry, 1989 to 1994. Ibrahim M, et al. **Tohoku J Exp Med** 1997 Jan;181(1):85–95

ETIOLOGY

Acquired biliary atresia. Davenport M, et al. **J Pediatr Surg** 1996 Dec;31(12):1721–3

GENETICS

Extrahepatic biliary atresia in twins: zygosity determination by short tandem repeat loci. Poovorawan Y, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S119–24

Sibling occurrence of biliary atresia and biliary dilatation. Ando K, et al. **J Pediatr Surg** 1996 Sep;31(9):1302–4

Immunologic reaction and genetic factors in biliary atresia. Nakada M, et al. **Tohoku J Exp Med** 1997 Jan;181(1):41–7

IMMUNOLOGY

Hepatic overexpression of MHC class II antigens and macrophage-associated antigens (CD68) in patients with biliary atresia of poor prognosis. Kobayashi H, et al. **J Pediatr Surg** 1997 Apr;32(4):590–3

Immunologic reaction and genetic factors in biliary atresia. Nakada M, et al. **Tohoku J Exp Med** 1997 Jan;181(1):41–7

METABOLISM

Apparently increased trough levels of tacrolimus caused by acute infantile diarrhea in two infants with biliary atresia after liver transplantation. Matsui A, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):699–701

Pre-operative time course changes in liver function tests in biliary atresia: its usefulness in the discrimination of biliary atresia in early infancy. Yamagiwa I, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):506–12

Energy expenditure in infants in health and disease. Shepherd R. **Can J Gastroenterol** 1997 Jan-Feb;11(1):101–4

Hepatic basolateral sodium-dependent-bile acid transporter expression in two unusual cases of hypercholanemia and in extrahepatic biliary atresia. Shneider BL, et al. **Hepatology** 1997 May;25(5):1176–83

Different expression of HLA-DR and ICAM-1 in livers from patients with biliary atresia and Byler's disease. Broomé U, et al. **J Hepatol** 1997 Apr;26(4):857–62

Differential expression of the major histocompatibility antigens and ICAM-1 on bile duct epithelial cells in biliary atresia. Dillon PW, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):33–40

Bone mineral analysis in patients with biliary atresia after successful Kasai procedure. Toki A, et al. **Tohoku J Exp Med** 1997 Jan;181(1):213–6

MORTALITY

[Long-term outcome of surgery for biliary atresia] Nio M, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):637–41 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Nephromegaly and elevated hepatocyte growth factor in children with biliary atresia. Tsau YK, et al. **Am J Kidney Dis** 1997 Feb;29(2):188–92

Macroscopic appearance at portoenterostomy--a prognostic variable in biliary atresia. Davenport M, et al. **J Pediatr Surg** 1996 Oct;31(10):1387–90

New aspects in a murine model for extrahepatic biliary atresia. Petersen C, et al. **J Pediatr Surg** 1997 Aug; 32(8):1190–5

Hyaline cartilage at porta hepatis in extrahepatic biliary atresia. Mirkin LD, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug;17(4):587–91

Biliary, anorectal and esophageal atresia: a new entity? Dessanti A, et al. **Tohoku J Exp Med** 1997 Jan;181(1):49–55

Abnormal distribution of nerve fibers in the liver of biliary atresia. Iwami D, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):57–65

MRI findings in the liver in biliary atresia patients after the Kasai operation. Takahashi A, et al. **Tohoku J Exp Med** 1997 Jan;181(1):193–202

[Histologic factors as elements of prognostic value in biliary atresia] García de Davila MT, et al. **Acta Gastroenterol Latinoam** 1996;26(3):177–81 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Bile ductule formation in fetal, neonatal, and infant livers compared with extrahepatic biliary atresia. Cocjin J, et al. **Hepatology** 1996 Sep;24(3):568–74

Evoked potential abnormalities in postoperative patients with biliary atresia. Kubota M, et al. **Pediatr Neurol** 1997 Apr; 16(3):206–12

Assessment of nutritional status of postoperative patients with biliary atresia. Shiga C, et al. **Tohoku J Exp Med** 1997 Jan;181(1):217–23

Clinical significance of 99mTc-DTPA galactosyl human serum albumin scintigram in follow-up after Kasai operation. Shimaoka S, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):203–11

RADIOGRAPHY

The role of ERCP in biliary atresia. Ohnuma N, et al. **Gastrointest Endosc** 1997 May;45(5):365–70

RADIONUCLIDE IMAGING

Delayed excretion of radionuclide in scanning with diisopropyl iminodiacetic acid does not exclude the possibility of primary biliary atresia: case report. Clarke B, et al. **Can Assoc Radiol J** 1997 Feb;48(1):42–3

Outcome of hepatobiliary scanning in neonatal hepatitis syndrome. Gilmour SM, et al. **J Nucl Med** 1997 Aug; 38(8):1279–82

HIDA kinetics in children. Rutland MD. **Nucl Med Commun** 1997 Jun;18(6):549–55

Comparison technetium of Tc-99m disofenin cholescintigraphy with ultrasonography in the differentiation of biliary atresia from other forms of neonatal jaundice. Lin WY, et al. **Pediatr Surg Int** 1997; 12(1):30–3

SURGERY

The impact of microsurgical hepatic arterial reconstruction on the outcome of liver transplantation for congenital biliary atresia. Shackleton CR, et al. **Am J Surg** 1997 May; 173(5):431–5

Orthotopic liver transplantation for congenital biliary atresia. An 11-year, single-center experience. Goss JA, et al. **Ann Surg** 1996 Sep;224(3):276–84; discussion 284–7

Long-term results with the Kasai operation for biliary atresia [letter; comment] Lowell JA, et al. **Arch Surg** 1996 Nov; 131(11):1235. Comment on: Arch Surg 1996

May;131(5):493–6.
Intra–abdominal Sengstaken–Blakemore tube placement for acute venous outflow obstruction in reduced–size liver transplantation. Malassagne B, et al. **Br J Surg** 1996 Aug; 83(8):1086
Acute intrahepatic portal vein thrombosis complicating cholangitis in biliary atresia. Cuffari C, et al. **Eur J Pediatr** 1997 Mar;156(3):186–9
Recurrent intestinal bleeding from jejunojejunostomy caused by portal hypertension following hepatoportojejunostomy in extra hepatic biliary atresia (EHBA)—successful treatment by transjugular intrahepatic portosystemic shunt (TIPS). Astfalk W, et al. **Eur J Pediatr Surg** 1997 Jun; 7(3):147–8
Living related liver transplantation for children younger than one year old. Inomata Y, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):148–51
Innovative techniques in pediatric liver transplantation: reduced–, split– and living–donor related liver transplantation. Murcia J, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):152–4
Paediatric liver transplantation: a 10 year experience in Taiwan. Chen CL, et al. **J Gastroenterol Hepatol** 1996 May; 11(5):S1–3
Use of external conduit impairs liver function in patients with biliary atresia. Ando H, et al. **J Pediatr Surg** 1996 Nov; 31(11):1509–11
10 years of pediatric liver transplantation. Andrews W, et al. **J Pediatr Surg** 1996 May;31(5):619–24
Biliary atresia: should all patients undergo a portoenterostomy? Azarow KS, et al. **J Pediatr Surg** 1997 Feb;32(2):168–72; discussion 172–4
Acquired biliary atresia. Davenport M, et al. **J Pediatr Surg** 1996 Dec;31(12):1721–3
Biliary atresia: the King's College Hospital experience (1974–1995). Davenport M, et al. **J Pediatr Surg** 1997 Mar; 32(3):479–85
Macroscopic appearance at portoenterostomy—a prognostic variable in biliary atresia. Davenport M, et al. **J Pediatr Surg** 1996 Oct;31(10):1387–90
Biliary obstruction in infants with cystic fibrosis requiring Kasai portoenterostomy. Greenholz SK, et al. **J Pediatr Surg** 1997 Feb;32(2):175–9; discussion 179–80
Impact of the development of a liver transplant program on the treatment of biliary atresia in an institution in Japan. Inomata Y, et al. **J Pediatr Surg** 1997 Aug;32(8):1201–5
The improved outlook for biliary atresia with corticosteroid therapy. Muraji T, et al. **J Pediatr Surg** 1997 Jul; 32(7):1103–6; discussion 1106–7
The impact of a previous Kasai procedure on liver transplantation for biliary atresia. Sandler AD, et al. **J Pediatr Surg** 1997 Mar;32(3):416–9
Conventional treatment of biliary atresia: long–term results. Valayer J. **J Pediatr Surg** 1996 Nov;31(11):1546–51
Is early response to portoenterostomy predictive of long–term outcome for patients with biliary atresia? Yanchar NL, et al. **J Pediatr Surg** 1996 Jun;31(6):774–8
Evoked potential abnormalities in postoperative patients with biliary atresia. Kubota M, et al. **Pediatr Neurol** 1997 Apr; 16(3):206–12
Splenectomy in biliary atresia patients with recurrent jaundice following partial splenic embolization. Ando H, et al. **Tohoku J Exp Med** 1997 Jan;181(1):167–74
Urgent liver transplantation for biliary atresia: the experience in Bicêtre. Gauthier F, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):129–38
Determinants of life span after Kasai operation at the era of liver transplantation. Gauthier F, et al. **Tohoku J Exp Med** 1997 Jan;181(1):97–107
Living related partial liver transplantation in biliary atresia: 11 cases of experience. Katoh H, et al. **Tohoku J Exp Med** 1997 Jan;181(1):139–44
Further observations on cystic dilatation of the intrahepatic biliary system in biliary atresia after hepatic portoenterostomy: report on 10 cases. Kawarasaki H, et al. **Tohoku J Exp Med** 1997 Jan;181(1):175–83
Liver transplantation for extra hepatic biliary atresia. Nagral S, et al. **Tohoku J Exp Med** 1997 Jan;181(1):117–27
The outcome of surgery for biliary atresia and the current status of long–term survivors. Nio M, et al. **Tohoku J Exp Med** 1997 Jan;181(1):235–44
Treatment of biliary atresia by portoenterostomy and liver transplantation: The Queen Mary Hospital, Hong Kong experience. Saing H, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):109–16
Assessment of nutritional status of postoperative patients with biliary atresia. Shiga C, et al. **Tohoku J Exp Med** 1997 Jan;181(1):217–23
Clinical significance of 99mTc–DTPA galactosyl human serum albumin scintigram in follow–up after Kasai operation. Shimaoka S, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):203–11
Long–term survivors in biliary atresia—findings for a 20–year survival group. Shimizu Y, et al. **Tohoku J Exp Med** 1997 Jan;181(1):225–33
MRI findings in the liver in biliary atresia patients after the Kasai operation. Takahashi A, et al. **Tohoku J Exp Med** 1997 Jan;181(1):193–202
Bone mineral analysis in patients with biliary atresia after successful Kasai procedure. Toki A, et al. **Tohoku J Exp Med** 1997 Jan;181(1):213–6
Changes of hepatic volume after successful Kasai operation. Watanabe Y, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):185–91
[Liver transplantation as a therapeutic modality of biliary atresia] Inomata Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):657–62 (Eng. Abstr.) **(Jpn)**
[Long–term outcome of surgery for biliary atresia] Nio M, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):637–41 (Eng. Abstr.) **(Jpn)**
[Portal hypertension after successful hepatic portoenterostomy in biliary atresia] Saeki M, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug;97(8):648–52 (Eng. Abstr.) **(Jpn)**
[How to improve the results of treatment of biliary atresia] Tsuchida Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Aug; 97(8):642–7 (Eng. Abstr.) **(Jpn)**

THERAPY

The treatment of biliary atresia in Europe 1969–1995. Howard ER, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):75–83 (30 ref.)
Biliary atresia: current management and outcome. Muraji T, et al. **Tohoku J Exp Med** 1997 Jan;181(1):155–60
Resolution of cirrhosis–related pulmonary shunting in two children with a transplanted liver. Ikeda S, et al. **Transpl Int** 1996;9(6):596–9

ULTRASONOGRAPHY

Comparison technetium of Tc–99m disofenin cholescintigraphy with ultrasonography in the differentiation of biliary atresia from other forms of neonatal jaundice. Lin WY, et al. **Pediatr Surg Int** 1997; 12(1):30–3
[Prenatal sonographic appearance of biliary atresia (type I)] Okuno S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Oct;48(10):893–6 **(Jpn)**

VIROLOGY

Lack of evidence for rotavirus by polymerase chain reaction/enzyme immunoassay of hepatobiliary samples from children with biliary atresia. Bobo L, et al. **Pediatr Res** 1997 Feb;41(2):229–34

BILIARY CALCULI see **CHOLELITHIASIS**

BILIARY CALCULI, COMMON BILE DUCT see **COMMON BILE DUCT CALCULI**

BILIARY CIRRHOSIS see **LIVER CIRRHOSIS, BILIARY**

BILIARY DYSKINESIA

COMPLICATIONS

Biliary dyskinesia in idiopathic slow–transit constipation. Hemingway D, et al. **Dis Colon Rectum** 1996 Nov; 39(11):1303–7
[The role of biliary dyskinesia in the mechanism of the damage to the protective properties of the mucosal barrier in peptic ulcer] Oparin AG, et al. **Ter Arkh** 1993;65(2):44–6 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Does intrabiliary pressure predict basal sphincter of Oddi pressure? A study in patients with and without gallbladders. Kalloo AN, et al. **Gastrointest Endosc** 1996 Dec;44(6):696–9
[The diagnosis of dyskinesias of Oddi's sphincter] Sauerbruch T, et al. **Dtsch Med Wochenschr** 1997 Apr 25; 122(17):547–50 (33 ref.) **(Ger)**
[The role of different investigations in diagnosis of functional disorders of the biliary system] Vorob'ev LP, et al. **Klin Med (Mosk)** 1996;74(9):35–8 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Biliary dyskinesia and biliary crystals: a prospective study. Velanovich V. **Am Surg** 1997 Jan;63(1):69–74

PHYSIOPATHOLOGY

Biliary tract dysmotility and sphincter of Oddi dyskinesia. van Berge–Henegouwen GP, et al. **Neth J Med** 1997 Apr; 50(4):174–9 (32 ref.)
[Biliary dyskinesia: is the study of the Oddi's sphincter motility useful?] Malé Velázquez R. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S99–103 **(Spa)**

REHABILITATION

[Thermal vibromassage in the treatment of children with dyskinesia of the biliary tract] Matveeva LA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb;(1):12–4 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Gall bladder dysmotility in diabetes mellitus—an ultrasound study. Sharma MP, et al. **Trop Gastroenterol** 1995 Jul–Sep; 16(3):13–8

BILIARY FISTULA

The internal biliary fistula—reappraisal of incidence, type, diagnosis and management of 33 consecutive cases. Yamashita H, et al. **HPB Surg** 1997;10(3):143–7
Transjugular intrahepatic portosystemic stent–shunt (TIPSS) occlusion and the role of biliary venous fistulae. Jalan R, et al. **J Hepatol** 1996 Feb;24(2):169–76
Disruption of cholecystoenteric fistula induced by minor blunt trauma. Nadu A, et al. **J Trauma** 1996 Nov; 41(5):914–5
[Mirizzi's syndrome] Siragusa G, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):97–102 (22 ref.) (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Percutaneous drainage of hepatic abscesses: therapy does not differ for those with identifiable biliary fistula. Bayraktar Y, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):620–6
Intrahepatic hematoma with secondary Salmonella infection via biliary fistula. Cerwenka H, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):529–32
[Endotoxemia in experimental acholia] Popov AN, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):101–2 **(Rus)**

CONGENITAL

Disorders in foregut diverticulization: congenital hepaticoesophageal fistula in a baby with laryngotracheoesophageal cleft. Webber EM, et al. **J Pediatr Surg** 1997 Apr;32(4):609–11

DIAGNOSIS

Gastrobronchial fistula in untreated lymphoma. Cameron EW, et al. **J Thorac Imaging** 1996 Spring;11(2):150–2 (15 ref.)
Biliary–pleural fistula presenting as a massive pleural effusion after thoracoabdominal penetrating trauma. Bamberger PK, et al. **J Trauma** 1997 Jul;43(1):162–3
Amoebic liver abscess communicating with intrahepatic bile ducts. Misra SP, et al. **Trop Doct** 1997 Jul;27(3):181–2
Asymptomatic Mirizzi syndrome. Ibrarullah M, et al. **Trop Gastroenterol** 1995 Jul–Sep;16(3):32–3
[Biliodigestive fistulae. Apropos 2 cases with opposite symptomatology] Picucci L, et al. **Minerva Chir** 1997 Apr; 52(4):439–47 (34 ref.) (Eng. Abstr.) **(Ita)**
[A case of biliobiliary fistula diagnosed by percutaneous transhepatic cholangioscopy] Toyokawa T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):366–70 **(Jpn)**
[The diagnosis and treatment of Mirizzi's syndrome] Radnaev VU, et al. **Vestn Khir Im I I Grek** 1996;155(2):103–4 **(Rus)**
[Complicated hepatic hydatidosis simulating malignant obstructive jaundice (letter)] Alvarez Blanco P, et al. **An Med Interna** 1996 Jun;13(6):307–8 **(Spa)**
[Digestive hemorrhage as presentation of Bouveret's syndrome: 2 cases (letter)] Morcillo Aixelá A, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):571–2 **(Spa)**

DRUG THERAPY

[Topical nitroglycerin: an alternative in the conservative treatment of biliary fistula] Feliu Palá X, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):877–9 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Cholecystogastrocolonic fistula with intrahepatic abscess: a rare complication of biliary stone disease. Hakim M, et al. **Am Surg** 1997 Jun;63(6):472–4
Post–cholecystectomy external biliary fistula. Singh V, et al. **Aust N Z J Surg** 1997 Apr;67(4):168–72
Porta choledochal fistula: an unusual complication of a cholangiocarcinoma arising from a type I choledochal cyst. Kale IT, et al. **Eur J Surg Oncol** 1997 Apr;23(2):188–9
Pleurobiliary fistula following Tannenbaum biliary stent insertion. Richenberg JI, et al. **Eur Radiol** 1996;6(5):697–9
Biliary–shunt fistula following transjugular intrahepatic portosystemic shunt placement. Mallery S, et al. **Gastroenterology** 1996 Nov;111(5):1353–7
Biliary fistula in a patient with HIV cholangiopathy. Cacciarelli AG, et al. **Gastrointest Endosc** 1996 Sep; 44(3):345–8
Bouveret's syndrome: case report and review of the literature. Frattaroli FM, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1019–22 (79 ref.)
Choledochoduodenal fistula: a complication of a penetrated duodenal ulcer. Iso Y, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):489–91
Biloma and biliary fistula associated with hepatorrhaphy for liver injury. Shahrudin MD, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):519–21
Bronchobiliary fistula. A rare complication of chronic pancreatitis. Eck BD, et al. **Int J Pancreatol** 1996 Dec; 20(3):213–6
Endoscopic management of a bronchobiliary fistula. Khandelwal M, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):125–7
Biliary venous fistula: an unusual complication of fine–needle aspiration biopsy of the liver. Patel RI, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):953–6
Biliary venous fistula from umbilical catheter placement. Mogbo KI, et al. **Pediatr Radiol** 1997 Apr;27(4):333–5
Cysto–bilio–bronchial communication in a hydatid cyst of liver. Duseja A, et al. **Trop Gastroenterol** 1997 Jan–Mar;

18(1):30–1
[Arteriobiliary fistula as a complication of biliary surgery] Pääkkönen M, et al. **Duodecim** 1995;111(18):1780–2 **(Fin)**
[Spontaneous cutaneous cysto–hepato–bronchial fistula caused by a hydatid cyst. Apropos of a case (letter)] Harandou M, et al. **J Chir (Paris)** 1997 May;134(1):31–4 (Eng. Abstr.) **(Fre)**
[Pseudoaneurysm of the right hepatic artery with an arterio–biliary fistula] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):586–7 **(Ger)**
[Biliary fistula, following partial hepatectomy, treated by endoscopic papillotomy (atypical indication for endoscopic sphincterotomy)] Seress Z, et al. **Orv Hetil** 1996 Aug 25; 137(34):1871–3 (Eng. Abstr.) **(Hun)**
[Spontaneous bilio–digestive fistulas of lithiasis origin: our experience] Cacopardo E, et al. **G Chir** 1996 Jun–Jul; 17(6–7):323–7 (Eng. Abstr.) **(Ita)**
[Common bile duct fistula caused by hepatic arterial infusion chemotherapy] Ohori M, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1565–7 (Eng. Abstr.) **(Jpn)**
[Biliary fistula after elective conventional cholecystectomy] Jukemura J, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul–Aug;51(4):113–5 (Eng. Abstr.) **(Por)**
[Hydropneumocyst, pleural effusion and biliotipsis] Acea Nebril B, et al. **Rev Clin Esp** 1997 Jan;197(1):65–7 **(Spa)**

METABOLISM

Expression of the rat liver Na+/taurocholate cotransporter is regulated in vivo by retention of biliary constituents but not their depletion. Gartung C, et al. **Hepatology** 1997 Feb; 25(2):284–90

PARASITOLOGY

The rupture of hepatic hydatid disease into the right hepatic vein and bile ducts: a case report. Coskun I, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1006–8

RADIOGRAPHY

Radiological findings in biliary fistula and gallstone ileus. Oikarinen H, et al. **Acta Radiol** 1996 Nov;37(6):917–22
The clinical and radiological features of cholecystocolic fistulae. Hession PR, et al. **Br J Radiol** 1996 Sep; 69(825):804–9
Images in clinical medicine. Cholecystoduodenal fistula. Singh N, et al. **N Engl J Med** 1997 Jan 23;336(4):266
Successful preoperative diagnosis of a cholecystogastric fistula using endoscopic retrograde cholangiography: report of a case. Nakamura M, et al. **Surg Today** 1997; 27(6):567–70
[Endoscopic diagnosis of a biliodigestive fistula of tuberculous origin revealing acquired immunodeficiency syndrome] Paupard T, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1055–8 (Eng. Abstr.) **(Fre)**

RADIONUCLIDE IMAGING

Choledocho–transverse colon fistula seen with hepatobiliary imaging. Young TH, et al. **Clin Nucl Med** 1996 Apr; 21(4):323–4
Role of biliary scintigraphy in management of bile leak. Khanduri A, et al. **Indian J Gastroenterol** 1997 Apr; 16(2):56–7
Congenital bronchobiliary fistula: diagnosis and postoperative surveillance with HIDA scan. Egrari S, et al. **J Pediatr Surg** 1996 Jun;31(6):785–6

SURGERY

Laparoscopic management of cholecystogastric fistula. Nuzzo G, et al. **Endoscopy** 1997 Mar;29(3):226
Bile leak after cholecystectomy significance and treatment: results from the National Norwegian Cholecystectomy Registry. Buanes T, et al. **Int Surg** 1996 Jul–Sep;81(3):276–9
Evaluation of surgical options in difficult gall bladder stone disease. Maudar KK. **J Indian Med Assoc** 1996 Apr; 94(4):138–40
Endoscopic sphincterotomy in the treatment of postoperative biliary fistulas of hepatic hydatid disease. Tekant Y, et al. **Surg Endosc** 1996 Sep;10(9):909–11
Endoscopic treatment of postoperative biliary leak. Sreenivas DV, et al. **Trop Gastroenterol** 1996 Oct–Dec;17(4):225–6
[Cholecysto–colic fistula: laparoscopic treatment] Pianalto S, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):231–3; discussion 233–4 (Eng. Abstr.) **(Ita)**
[A method of restoration of bile loss during acholia] Popov AN, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):192–5 **(Rus)**

THERAPY

Biliary–pleural fistulas without biliary obstruction: percutaneous catheter management. Feld R, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):381–3
Percutaneous microcoil embolization of intraperitoneal intrahepatic and extrahepatic biliary fistulas. Hunt JA, et al. **Aust N Z J Surg** 1997 Jul;67(7):424–7
Stent–graft as treatment for TIPS–biliary fistula. Cohen GS, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):665–8
Percutaneous transhepatic embolization of bile duct fistulas. Görich J, et al. **J Vasc Interv Radiol** 1996 May–Jun; 7(3):435–8
Bilomas developing after laparoscopic biliary surgery: percutaneous management with embolization of biliary leaks. Oliva VL, et al. **J Vasc Interv Radiol** 1997 May–Jun; 8(3):469–73
Endoscopic management of biliary pleural fistula. Kumar N, et al. **Trop Gastroenterol** 1995 Jul–Sep;16(3):40–2
[Nasobiliary tube in management of postoperative bile fistulas] Belz J, et al. **Chirurg** 1997 Jan;68(1):68–71 (Eng. Abstr.) **(Ger)**
[Selective arterial embolization in the treatment of posttraumatic intrahepatic arteriobiliary fistulae] Verkhovskiĭ VS, et al. **Vestn Khir Im I I Grek** 1996; 155(2):49–50 **(Rus)**
[Endoscopic management of biliary fistula] Güitrón A, et al. **Rev Gastroenterol Mex** 1997 Jan–Mar;62(1):29–33 (Eng. Abstr.) **(Spa)**

BILIARY SLUDGE see **BILE**

BILIARY STASIS see **CHOLESTASIS**

BILIARY STASIS, EXTRAHEPATIC see **BILE DUCT OBSTRUCTION, EXTRAHEPATIC**

BILIARY STASIS, INTRAHEPATIC see **CHOLESTASIS, INTRAHEPATIC**

BILIARY SURGERY see **BILIARY TRACT SURGERY**

BILIARY TRACT

see related
CHOLAGOGUES AND CHOLERETICS
CHOLANGIOGRAPHY
CHOLECYSTOGRAPHY

Button self–retaining drainage catheter. Caridi JG, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):317–8
A migrating biliary wallstent [letter; comment] Plant G. **Clin Radiol** 1997 Apr;52(4):322. Comment on: Clin Radiol 1997 Mar;52(3):246.
Leadshot: an unusual cause of stent occlusion. England R, et al. **Endoscopy** 1996 Aug;28(6):527
Bezoar manifested with digestive and biliary obstruction. Yin WY, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1037–45
Adenovirus–mediated hepatic gene transfer in mice: comparison of intravascular and biliary administration. Peeters MJ, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1693–9
Morphology, physiology, and biochemistry of biliary epithelia. LaRusso NF. **Toxicol Pathol** 1996 Jan–Feb; 24(1):84–9 (39 ref.)
[The place of endoscopic transpapillary (peroral) cholangioscopy in the diagnosis and treatment of biliary tract diseases] Vladimirov B, et al. **Khirurgiia (Sofiia)** 1996; 49(5):20–2 (Eng. Abstr.) **(Bul)**

ABNORMALITIES

Pancreaticobiliary maljunction associated with nondilatation or minimal dilatation of the common bile duct in children: diagnosis and treatment. Miyano T, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):334–7

ANATOMY & HISTOLOGY

Multinuclear MR characterization of a new hepatobiliary contrast agent. Preliminary results. Vander Elst L, et al. **Acta Radiol Suppl** 1997;412:135–8

CYTOLOGY

Reactive biliary epithelium: the product of a pluripotential stem cell compartment? Golding M, et al. **Hum Pathol** 1996 Sep;27(9):872–84 (154 ref.)
Wholesale hepatocytic differentiation in the rat from ductular oval cells, the progeny of biliary stem cells. Alison M, et al. **J Hepatol** 1997 Feb;26(2):343–52
Promotion of leukocyte transendothelial cell migration by chemokines derived from human biliary epithelial cells in vitro. Morland CM, et al. **Proc Assoc Am Physicians** 1997 Jul;109(4):372–82
Differentiation of biliary epithelial cells from the mouse hepatic endodermal cells cultured in vitro. Shiojiri N, et al. **Tohoku J Exp Med** 1997 Jan;181(1):1–8

DRUG EFFECTS

Pharmacological profile of a new serine derivative cholecystokinin receptor antagonist TP–680 on pancreatic, biliary and gastric function. Tachibana I, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1404–12
Protection by clofibrate against acetaminophen hepatotoxicity in male CD–1 mice is associated with an early increase in biliary concentration of acetaminophen–glutathione adducts. Manautou JE, et al. **Toxicol Appl Pharmacol** 1996 Sep;140(1):30–8
Biliary proliferation and adaptation in furan–induced rat liver injury and carcinogenesis. Sirica AE. **Toxicol Pathol** 1996 Jan–Feb;24(1):90–9 (52 ref.)

INJURIES

What role can endoscopy play in the management of biliary complications after laparoscopic cholecystectomy? [see comments] Prat F, et al. **Endoscopy** 1997 Jun;29(5):341–8 . Comment in: Endoscopy 1997 Jun;29(5):389–91.
Benign biliary strictures and sclerosing cholangitis. Meenan J, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):127–38 (59 ref.)
Laparoscopic surgery of the bile ducts. Strasberg SM, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):81–105 (72 ref.)
[Present possibilities of correction of biliary tract injuries] Král V, et al. **Rozhl Chir** 1996 Apr;75(4):180–4 (Eng. Abstr.) **(Cze)**

METABOLISM

Penetration of ciprofloxacin and fleroxacin into biliary tract. Edmiston CE Jr, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):787–91
Renal, biliary and intestinal clearance of sotalol enantiomers in rat model: evidence of intestinal exsorption. Carr RA, et al. **Biopharm Drug Dispos** 1996 Nov;17(8):725–35
Primary active transport of pravastatin across the liver canalicular membrane in normal and mutant Eisai hyperbilirubinaemic rats. Yamazaki M, et al. **Biopharm Drug Dispos** 1996 Nov;17(8):645–59
Multiplicity of biliary excretion mechanisms for irinotecan, CPT–11, and its metabolites in rats. Chu XY, et al. **Cancer Res** 1997 May 15;57(10):1934–8
Maximal biliary transport of sulfobromophthalein in patients with a T–tube placed in the common bile duct. Serra MA, et al. **Eur J Drug Metab Pharmacokinet** 1997 Apr–Jun; 22(2):135–9
In vivo gene transfer to the human biliary tract. Vickers SM, et al. **Gene Ther** 1996 Sep;3(9):825–8
Muscarinic acetylcholine receptor stimulation of biliary epithelial cells and its effect on bile secretion in the isolated perfused liver [corrected] [published erratum appears in Hepatology 1997 Aug;26(2):516] Elsing C, et al. **Hepatology** 1997 Apr;25(4):804–13
Absorptive and secretory mechanisms in biliary epithelial cells. Elsing C, et al. **J Hepatol** 1996;24 Suppl 1:121–7 (56 ref.)
Drug traffic in the hepatobiliary system. Groothuis GM, et al. **J Hepatol** 1996;24 Suppl 1:3–28 (252 ref.)
Hepatobiliary elimination of certain peptide–mimicking drugs: linear hydrophobic and hydrophilic renin–inhibitors and hydrophobic cyclopeptides. Ziegler K, et al. **J Hepatol** 1996;24 Suppl 1:47–52 (22 ref.)
Mechanism of the tissue distribution and biliary excretion of the cyclic peptide octreotide. Yamada T, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1357–64

MICROBIOLOGY

Gallbladder and biliary tract candidiasis. Diebel LN, et al. **Surgery** 1996 Oct;120(4):760–4; discussion 764–5

PARASITOLOGY

An in vitro model of infection of human biliary epithelial cells by Cryptosporidium parvum. Verdon R, et al. **J Infect Dis** 1997 May;175(5):1268–72

PATHOLOGY

Biliary tract cytology in specimens obtained by direct cholangiographic procedures: a study of 74 cases. de Peralta–Venturina MN, et al. **Diagn Cytopathol** 1996 Jun; 14(4):334–48
MR cholangiopancreatography: technique, potential indications, and diagnostic features of benign, postoperative, and malignant conditions. Becker CD, et al. **Eur Radiol** 1997;7(6):865–74
Regrowth of the rat biliary tree after 70% partial hepatectomy is coupled to increased secretin–induced ductal secretion. Lesage G, et al. **Gastroenterology** 1996 Dec;111(6):1633–44
Magnetic resonance cholangiopancreatography. Mehta SN, et al. **Gastrointest Endosc Clin N Am** 1997 Apr;7(2):247–70 (66 ref.)
MR cholangiopancreatography: potential clinical applications. Reinbold C, et al. **Radiographics** 1996 Mar; 16(2):309–20
Biliary proliferation and adaptation in furan–induced rat liver injury and carcinogenesis. Sirica AE. **Toxicol Pathol** 1996 Jan–Feb;24(1):90–9 (52 ref.)
Endoductal tissue sampling of biliary strictures through endoscopic retrograde cholangiopan creatography (ERCP). Pugliese V, et al. **Tumori** 1997 May–Jun; 83(3):698–702
[Usefulness of MR cholangiography with flex coil] Nishio H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25;54(12):1175–7 (Eng. Abstr.) **(Jpn)**
[Evaluation of the biliary system and pancreatic duct using MR cholangiopancreatography] Hanaoka H, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:187–9 (8 ref.) **(Jpn)**

PHYSIOLOGY

The plasma membrane polarity of human biliary epithelial cells: in situ immunohistochemical analysis and functional implications. Scoazec JY, et al. **J Hepatol** 1997 Mar; 26(3):543–53
An in vitro model of infection of human biliary epithelial cells by Cryptosporidium parvum. Verdon R, et al. **J Infect Dis** 1997 May;175(5):1268–72
[Biliary drainage test] Tani N. **Nippon Rinsho** 1997 Apr;55

Suppl 2:183–6 (4 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Polycystic kidney disease, biliary dysgenesis in a patient with Larsen's syndrome. Kurtoglu S, et al. **Clin Genet** 1997 Jun; 51(6):408–11

Intrabiliary pressure measurement by duodenal pressure loading for the evaluation of duodenal parapapillary diverticulum. Nagakawa T, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1129–34

RADIOGRAPHY

Meglumine gadoterate: a new safe radiocontrast medium for endoscopic retrograde cholangiopancreatography? Dorta G, et al. **Digestion** 1997;58(3):289–92

Detection of focal liver lesions: CT of the hepatobiliary system with gadoxetic acid disodium, or Gd–EOB–DTPA. Schmitz SA, et al. **Radiology** 1997 Feb;202(2):399–405

[Spiral cholangioscanners and tridimensional reconstructions of the biliary tract in children] Borocco A, et al. **J Radiol** 1996 Sep;77(9):663–6 (Eng. Abstr.) **(Fre)**

RADIONUCLIDE IMAGING

Splenomegaly on hepatobiliary imaging. Solanki HP, et al. **Clin Nucl Med** 1997 Mar;22(3):180–1

Cholescintigraphy in the diagnosis of Rotor syndrome. Tutus A, et al. **Clin Nucl Med** 1997 May;22(5):306–7

A new reconstructive method after pancreaticoduodenectomy: the triple Roux on a "P" loop. Rationale and radionuclide scanning evaluation. Pescio G, et al. **HPB Surg** 1996;9(4):223–7

Role of hepatobiliary scintigraphy in management of postoperative bile leak into the lesser sac. Kumar R, et al. **Indian J Gastroenterol** 1995 Oct;14(4):149–50

Outcome of hepatobiliary scanning in neonatal hepatitis syndrome. Gilmour SM, et al. **J Nucl Med** 1997 Aug; 38(8):1279–82

[Hepato–bilio scintigraphy in the examination of patients with acute cholecystitis before laparoscopic cholecystectomy] Guliaev AA, et al. **Khirurgiia (Mosk)** 1997;(4):55–8 (Eng. Abstr.) **(Rus)**

SECRETION

Current concepts of hepatic uptake, intracellular transport and biliary secretion of bile acids: physiological basis and pathophysiological changes in cholestatic liver dysfunction. Azer SA, et al. **J Gastroenterol Hepatol** 1996 Apr; 11(4):396–407 (154 ref.)

Control analysis of biliary lipid secretion. Groen AK, et al. **J Theor Biol** 1996 Oct 7;182(3):427–36

Dietary fat alters biliary lipid secretion in the hamster. Ohshima A, et al. **Lipids** 1996 Sep;31(9):949–54

SURGERY see BILIARY TRACT SURGERY

BILIARY TRACT DISEASES

see related

CHOLANGIOGRAPHY

Biliary ascariasis: a worm in the bag. Nyugen H, et al. **Aust N Z J Surg** 1997 Aug;67(8):574–5

Liver transplantation: review of the literature. Part 2: Vascular and biliary complications. Patenaude YG, et al. **Can Assoc Radiol J** 1997 Aug;48(4):231–42 (63 ref.)

Frontiers of biliary endoscopy. Cotton PB, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):253–8

Dysfunctional disorders of the biliary tract. Corazziari E, et al. **Semin Gastrointest Dis** 1996 Oct;7(4):196–207 (66 ref.)

[Distal intrahepatic biliary tract diseases in adults: cholangitis and loss of ducts] Bruguera M. **Med Clin (Barc)** 1996 Sep 21;107(9):338–41 (43 ref.) **(Spa)**

CHEMICALLY INDUCED

Alternating floxuridine and 5–fluorouracil hepatic arterial chemotherapy for colorectal liver metastases minimizes biliary toxicity. Davidson BS, et al. **Am J Surg** 1996 Sep; 172(3):244–7

COMPLICATIONS

How long does it take to operate? The implications for in patient malnutrition. Silk DB. **Acta Gastroenterol Latinoam** 1996;26(2):101–4

Laparoscopic cholecystectomy: applicability in the geriatric population. Magnuson TH, et al. **Am Surg** 1997 Jan; 63(1):91–6

Hepatobiliary tract and pancreatic disorders in celiac disease. Freeman HJ. **Can J Gastroenterol** 1997 Jan–Feb;11(1):77–81 (79 ref.)

Functional dyspepsia: how could a biliary dyspepsia sub–group be recognized? A methodological approach. Koch M, et al. **Ital J Gastroenterol** 1996 Jun;28(5):261–8

Treatment of hepatobiliary pruritus [letter] Whitmore SE. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):279

[Hepatobiliary complications of idiopathic intestinal inflammations] Lukáš M. **Cas Lek Cesk** 1997 Feb 12; 136(4):106–10 (Eng. Abstr.) **(Cze)**

[The value of symptomatic yellowing of cytoplasm in leukocytes obtained from stomach contents in diagnosis of biliary gastritis] Klęba T. **Pol Merkuriusz Lek** 1996 Dec; 1(6):398–400 (Eng. Abstr.) **(Pol)**

[Gastric tumor and jaundice with biliary tract dilatation] Acea Nebril B, et al. **Rev Clin Esp** 1996 Jul;196(7):473–4 **(Spa)**

DIAGNOSIS

In vitro and clinical studies of image acquisition in breath–hold MR cholangiopancreatography: single–shot projection technique versus multislice technique. Yamashita Y, et al. **AJR Am J Roentgenol** 1997 Jun; 168(6):1449–54

MRI of multiple biliary hamartomas. Cheung YC, et al. **Br J Radiol** 1997 May;70(833):527–9

Day–case transfer of inpatients for diagnostic and therapeutic endoscopic retrograde cholangiopancreatography. Kyriakides C, et al. **Br J Surg** 1997 Sep;84(9):1260–3

Biliary interleukin–6 and tumor necrosis factor–alpha in patients undergoing endoscopic retrograde cholangiopancreatography. Rosen HR, et al. **Dig Dis Sci** 1997 Jun;42(6):1290–4

Diagnostic value of laparoscopic transcystic cholangioscopy. Ido K, et al. **Endoscopy** 1996 Sep;28(7):638

Suprapapillary fistulosphincterotomy at ERCP: a prospective study. O'Connor HJ, et al. **Endoscopy** 1997 May; 29(4):266–70

MR cholangiopancreatography: technique, potential indications, and diagnostic features of benign, postoperative, and malignant conditions. Becker CD, et al. **Eur Radiol** 1997;7(6):865–74

Preoperative endoscopic retrograde cholangiopancreatography: therapeutic impact in a general population of patients needing a cholecystectomy. Huynh CH, et al. **Hepatogastroenterology** 1996 Nov–Dec; 43(12):1484–91

Frank intrabiliary rupture of hydatid hepatic cyst: diagnosis and treatment. Kornaros SE, et al. **J Am Coll Surg** 1996 Nov;183(5):466–70

The art of diagnostic imaging: the biliary tree. Wilkinson M. **J Hepatol** 1996;25 Suppl 1:5–19 (50 ref.)

Endoscopic retrograde cholangiopancreatography in children with HIV infection. Yabut B, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):624–7

Imaging of the hepatobiliary tract. Saini S. **N Engl J Med** 1997 Jun 26;336(26):1889–94 (48 ref.)

MR cholangiopancreatography: potential clinical applications. Reinbold C, et al. **Radiographics** 1996 Mar; 16(2):309–20

Serum aminoterminal propeptide of type III procollagen (S–PIIINP) and hepatobiliary dysfunction in patients with ulcerative colitis. Leidenius MH, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):297–305

Congenital and acquired biliary disorders in children. Nicotra JJ, et al. **Semin Roentgenol** 1997 Jul;32(3):215–27 (35 ref.)

Percutaneous interventions in the biliary tree. Wu SM, et al. **Semin Roentgenol** 1997 Jul;32(3):228–45 (109 ref.)

[The place of endoscopic transpapillary (peroral) cholangioscopy in the diagnosis and treatment of biliary tract diseases] Vladimirov B, et al. **Khirurgiia (Sofiia)** 1996; 49(5):20–2 (Eng. Abstr.) **(Bul)**

[An unusual hepatic abscess] L'Herminé A, et al. **Ann Pathol** 1997 Apr;17(2):127–8 **(Fre)**

[Biliary stenosis in patients treated with liver transplantation. Diagnostic approach] Alvarado AA, et al. **Ann Ital Chir** 1995 Sep–Oct;66(5):711–8 (Eng. Abstr.) **(Ita)**

[Efficacy of respiratory–triggered fast spin–echo 3 dimensional–MR cholangiopancreatography on middle magnetic field MR imaging] Isomoto I, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):170–5 (Eng. Abstr.) **(Jpn)**

[Comparative aspects of the diagnosis of diseases of organs of the hepato–pancreatico–duodenal zone] Sazhin VP, et al. **Khirurgiia (Mosk)** 1997;(3):45–8 (Eng. Abstr.) **(Rus)**

[Iridodiagnosis in diseases of the hepatobiliary system and kidneys] Lukash NV, et al. **Lik Sprava** 1996 Jan–Feb; (1–2):113–5 (Eng. Abstr.) **(Rus)**

[Changes in gamma–glutamyltransferase activity in diseases of the liver and biliary tract] Vürbanov G, et al. **Ter Arkh** 1993;65(2):82–5 (50 ref.) **(Rus)**

[Evolution of endoscopy of the biliary tract and the pancreas] Elizondo Rivera J. **Rev Gastroenterol Mex** 1995 Oct–Dec; 60(4 Suppl 1):S44–6 **(Spa)**

[Lipid peroxidation and blood serum peroxidase activity in diseases of the hepatobiliary system] Podil'chak MD, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):110–2 (Eng. Abstr.) **(Ukr)**

DRUG THERAPY

Treatment of biliary colic with diclofenac: a randomized, double–blind, placebo–controlled study. Akriviadis EA, et al. **Gastroenterology** 1997 Jul;113(1):225–31

IV ketorolac for the treatment of ureteral and biliary colic [letter] [see comments] Feldman ML. **J Emerg Med** 1997 Mar–Apr;15(2):247–8. Comment in: J Emerg Med 1997 Mar–Apr;15(2):245–6.

Bile acid therapy in pediatric hepatobiliary disease: the role of ursodeoxycholic acid. Balistreri WF. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):573–89 (184 ref.)

[The characteristics of the use of ursodeoxycholic acid in chronic diseases of the hepatobiliary system] Dehtiar'ova II, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):47–8 **(Ukr)**

EPIDEMIOLOGY

An overview of gastrointestinal and hepatobiliary diseases in Thailand. Kullavanijaya P. **J Gastroenterol Hepatol** 1997 May;12(5):S11–2 (10 ref.)

Cholangiopathy and tumors of the pancreas, liver, and biliary tree in boys with X–linked immunodeficiency with hyper–IgM. Hayward AR, et al. **J Immunol** 1997 Jan 15; 158(2):977–83

Biliary complications in living donor liver transplantation. Cronin DC 2nd, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):419–20

Impact of the site of arterial anastomosis on the risk of biliary complications after liver transplantation. Anand AC, et al. **Trop Gastroenterol** 1996 Jul–Sep;17(3):185–6

ETHNOLOGY

[The effect of socioeconomic status on the prevalence of biliary tract diseases in the Evens and Evenki] Sedov KR, et al. **Ter Arkh** 1993;65(2):42–4 (Eng. Abstr.) **(Rus)**

[The prevalence and structure of biliary tract diseases in the rural population of northern regions of Siberia] Tsukanov VV. **Ter Arkh** 1997;69(2):30–2 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Causes and management of recurrent biliary pain after successful nonoperative gallstone treatment. Wehrmann T, et al. **Am J Gastroenterol** 1997 Jan;92(1):132–8

Risk of recurrent biliary tract disease after cholecystectomy in patients with duodenal diverticula. Mackenzie ME, et al. **Arch Surg** 1996 Oct;131(10):1083–5

Management of extrahepatic biliary disease after orthotopic liver transplantation: review of the literature and results of a multicenter survey. Sossenheimer M, et al. **Endoscopy** 1996 Sep;28(7):565–71 (58 ref.)

Endoscopic retrograde cholangiography in the diagnosis and endoscopic management of biliary complications after liver transplantation. Macfarlane B, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):1003–6

Hepatobiliary complications of parenteral nutrition. Gaddipati K, et al. **Gastroenterologist** 1996 Jun;4(2):98–106 (91 ref.)

Endoscopic management of biliary complications after orthotopic liver transplantation. Hintze RE, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):258–62

Some peculiarities of hepatobiliary diseases in Vietnam. Ha MV. **J Gastroenterol Hepatol** 1997 May;12(5):S15–8 (21 ref.)

Endoscopic treatment of biliary colic resulting from hemobilia after nonoperative management of blunt hepatic injury: case report and review of the literature. Clancy TE, et al. **J Trauma** 1997 Sep;43(3):527–9 (23 ref.)

Gastrointestinal manifestations. Tanowitz HB, et al. **Med Clin North Am** 1996 Nov;80(6):1395–414 (128 ref.)

The management of biliary complications following orthotopic liver transplantation. Lemmer ER, et al. **S Afr J Surg** 1997 May;35(2):77–81

[Laparoscopic cholecystectomy. Vascular and biliary complications] Nguyen Thanh L, et al. **Ann Chir** 1997; 51(3):237–42 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Biliary tract cryptosporidiosis immunosuppressed rat model. Roussel F, et al. **Int J Parasitol** 1996 Jan;26(1):19–24

METABOLISM

Detection of transforming growth factor–alpha protein and messenger RNA in hepatobiliary diseases by immunohistochemical and in situ hybridization techniques. Harada K, et al. **Hum Pathol** 1996 Aug;27(8):787–92

Increased cell proliferation and transforming growth factor–alpha (TGF alpha) in the gall–bladder epithelium of patients with pancreaticobiliary maljunction. Kaneko K, et al. **Pathol Int** 1996 Apr;46(4):253–60

MICROBIOLOGY

Biliary tract infection and bacteraemia associated with Haemophilus influenzae. Shoufanie A, et al. **Eur J Surg** 1996 Sep;162(9):743–5

Biliary sepsis: an ascending infection. Bapat RD, et al. **Indian J Gastroenterol** 1996 Oct;15(4):126–8

[The role of persisting opportunistic intestinal microflora in dysbiosis in the occurrence of hepatobiliary system diseases] Valyshev AV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):87–8 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Sonographic evaluation of biliary ascariasis. Mani S, et al. **Australas Radiol** 1997 May;41(2):204–6

Endoscopy–assisted emergency treatment of gastroduodenal and pancreatobiliary ascariasis. Misra SP, et al. **Endoscopy** 1996 Sep;28(7):629–32

Biliary tract cryptosporidiosis immunosuppressed rat model. Roussel F, et al. **Int J Parasitol** 1996 Jan;26(1):19–24

Biliary coccidiosis in a ferret (Mustela putorius furo). Williams BH, et al. **Vet Pathol** 1996 Jul;33(4):437–9

BILIARY TRACT DISEASES

PATHOLOGY

Identification of an Enterocytozoon bieneusi-like microsporidian parasite in simian-immunodeficiency-virus-inoculated macaques with hepatobiliary disease. Mansfield KG, et al. **Am J Pathol** 1997 Apr;150(4):1395-405

Cholangiopathy and tumors of the pancreas, liver, and biliary tree in boys with X-linked immunodeficiency with hyper-IgM. Hayward AR, et al. **J Immunol** 1997 Jan 15; 158(2):977-83

Increased cell proliferation and transforming growth factor-alpha (TGF alpha) in the gall-bladder epithelium of patients with pancreaticobiliary maljunction. Kaneko K, et al. **Pathol Int** 1996 Apr;46(4):253-60

Endoscopic retrograde cholangiopancreatography (ERCP) in biliary tract disease of infants less than one year old. Ohnuma N, et al. **Tohoku J Exp Med** 1997 Jan;181(1):67-74

Biliary coccidiosis in a ferret (Mustela putorius furo). Williams BH, et al. **Vet Pathol** 1996 Jul;33(4):437-9

PHYSIOPATHOLOGY

Gastrointestinal manifestations. Tanowitz HB, et al. **Med Clin North Am** 1996 Nov;80(6):1395-414 (128 ref.)

Gallbladder dyskinesia in acalculous biliary colic. Calabuig R, et al. **Rev Esp Enferm Dig** 1996 Nov;88(11):770-9 **(Eng, Spa)**

[Study of pancreatic duct pressure in the biliary tract and pancreatic diseases: endoscopic pressure determination of the pancreatic duct] Sato H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):422-4 **(Jpn)**

RADIOGRAPHY

Endoscopic diagnosis and management of hepatobiliary tuberculosis. Bearer EA, et al. **Am J Gastroenterol** 1996 Dec;91(12):2602-4

Computed tomography intravenous cholangiography. Nascimento S, et al. **Australas Radiol** 1997 Aug; 41(3):253-61

Recent developments in biliary tract imaging. Gillams AR, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):1-15 (37 ref.)

Endoscopic retrograde cholangiopancreatography in octogenarians. Scapa E, et al. **J Clin Gastroenterol** 1996 Jan;22(1):21-2

Sincalide: a cholecystokinin agonist as an aid in endoscopic retrograde cholangiopancreatography--a prospective assessment. Weston AP. **J Clin Gastroenterol** 1997 Jun; 24(4):227-30

Quality improvement guidelines for percutaneous transhepatic cholangiography and biliary drainage. Society of Cardiovascular and Interventional Radiology. Burke DR, et al. **J Vasc Interv Radiol** 1997 Jul-Aug;8(4):677-81

Cholangiography. Shlansky-Goldberg R, et al. **Semin Roentgenol** 1997 Jul;32(3):150-60 (36 ref.)

[Spiral cholangioscanners and tridimensional reconstructions of the biliary tract in children] Borocco A, et al. **J Radiol** 1996 Sep;77(9):663-6 (Eng. Abstr.) **(Fre)**

[Drip infusion cholangiography combined helical computed tomography] Ishihara K, et al. **Nippon Rinsho** 1997 Apr; 55 Suppl 2:180-2 (8 ref.) **(Jpn)**

[X-ray diagnosis of liver and biliary tract diseases] Vlasov PV, et al. **Vestn Rentgenol Radiol** 1996 May-Jun;(3):33-46 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Prospective study of hepatobiliary scintigraphy and endoscopic cholangiography for the detection of early biliary complications after orthotopic liver transplantation. Kurzawinski TR, et al. **Br J Surg** 1997 May;84(5):620-3

[A role of radionuclide studies for gastrointestinal and hepatobiliary diseases] Koizumi K. **Kaku Igaku** 1996 Jul; 33(7):785-9 (12 ref.) (Eng. Abstr.) **(Jpn)**

SURGERY

How long does it take to operate? The implications for in patient malnutrition. Silk DB. **Acta Gastroenterol Latinoam** 1996;26(2):101-4

Laparoscopic cholecystectomy: applicability in the geriatric population. Magnuson TH, et al. **Am Surg** 1997 Jan; 63(1):91-6

Open biliary tract surgery on 2023 patients based on personal experience. A clinical study. Seiro J. **Ann Chir Gynaecol Suppl** 1996;212:1-121

Complications of endoscopic biliary sphincterotomy: a review. Freeman ML. **Endoscopy** 1997 May;29(4):288-97 (79 ref.)

Suprapapillary fistulosphincterotomy at ERCP: a prospective study. O'Connor HJ, et al. **Endoscopy** 1997 May; 29(4):266-70

Postsurgical biliary tract complications. Ghahremani GG. **Gastroenterologist** 1997 Mar;5(1):46-57 (64 ref.)

Sphincterotomy techniques and risks. Shields SJ, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):17-42 (80 ref.)

European Congress IHPBA "Athens '95". Athens, Greece, 25-28 May 1995. Abstracts. **HPB Surg** 1995;9 Suppl 1:1-167

2nd World Congress of the International Hepato-Pancreato-Biliary Association. Bologna, Italy. 2-6 June 1996. Abstracts. **HPB Surg** 1996;9 Suppl 2:1-214

Overview of biliary diseases. Rossi RL. **HPB Surg** 1995; 9(1):1-4

Surgical strategy for patients with anomalous pancreaticobiliary ductal junction without choledochal cyst. Chijiiwa K, et al. **Int Surg** 1995 Jul-Sep;80(3):215-7

Stenting as a definitive procedure in benign biliary disease. Johnston BT, et al. **Ir Med J** 1996 Sep-Oct;89(5):177-8

Frank intrabiliary rupture of hydatid hepatic cyst: diagnosis and treatment. Kornaros SE, et al. **J Am Coll Surg** 1996 Nov;183(5):466-70

Multidisciplinary approach to the treatment of pediatric pancreaticobiliary disorders. Tagge EP, et al. **J Pediatr Surg** 1997 Feb;32(2):158-64; discussion 164-5

Endoscopic treatment of posttraumatic "bilhemia": case report. Gable DR, et al. **J Trauma** 1997 Sep;43(3):534-6

Quality improvement guidelines for percutaneous transhepatic cholangiography and biliary drainage. Society of Cardiovascular and Interventional Radiology. Burke DR, et al. **J Vasc Interv Radiol** 1997 Jul-Aug;8(4):677-81

Nonvascular stents. Vanderburgh L, et al. **Prog Cardiovasc Dis** 1996 Sep-Oct;39(2):187-200 (75 ref.)

Endoscopic treatment of postoperative biliary leak. Sreenivas DV, et al. **Trop Gastroenterol** 1996 Oct-Dec;17(4):225-6

[Percutaneous biliary prostheses. Type of material and indications] L'Hermine C, et al. **J Radiol** 1996 Dec; 77(12):1175-82 (39 ref.) (Eng. Abstr.) **(Fre)**

[Micro- and modern minilaparotomy in biliary tract surgery. (Remembering János Balassa)] Rozsos I. **Orv Hetil** 1996 Oct 13;137(41):2243-8 (38 ref.) (Eng. Abstr.) **(Hun)**

[Significance of antibiotic prophylaxis in infection prevention in biliary surgery. Personal experience] Zuccarini F, et al. **Ann Ital Chir** 1995 Sep-Oct;66(5):665-9 (Eng. Abstr.) **(Ita)**

[The quality of life of the geriatric patient after a surgical intervention. VI. Interventions on the biliary tract] Pannella A, et al. **Minerva Chir** 1997 Apr;52(4):353-8 (Eng. Abstr.) **(Ita)**

[Hepatoporto-appendicostomy. Our experience in 3 cases of biliary cystic disease] Vila JJ, et al. **Cir Pediatr** 1997 Apr; 10(2):82-5 (Eng. Abstr.) **(Spa)**

[High-risk biliary surgery. Study of 108 patients operated using the tradition method] Vargas-Domínguez A, et al. **Gac Med Mex** 1996 Mar-Apr;132(2):135-9 (Eng. Abstr.) **(Spa)**

THERAPY

Endoscopic diagnosis and management of hepatobiliary tuberculosis. Bearer EA, et al. **Am J Gastroenterol** 1996 Dec;91(12):2602-4

Endoscopic therapy of complications following laparoscopic cholecystectomy: how much can we expect? [editorial; comment] Catalano MF. **Endoscopy** 1997 Jun;29(5):389-91 . Comment on: Endoscopy 1997 Jun;29(5):341-8.

Endoscopy-assisted emergency treatment of gastroduodenal and pancreatobiliary ascariasis. Misra SP, et al. **Endoscopy** 1996 Sep;28(7):629-32

What role can endoscopy play in the management of biliary complications after laparoscopic cholecystectomy? [see comments] Prat F, et al. **Endoscopy** 1997 Jun;29(5):341-8 . Comment in: Endoscopy 1997 Jun;29(5):389-91.

Biliary balloon dilation using a triple-lumen balloon catheter. Jacob H, et al. **Gastrointest Endosc** 1996 Oct;44(4):465-8

Therapeutic ERCP in outpatients [see comments] Tham TC, et al. **Gastrointest Endosc** 1997 Mar;45(3):225-30. Comment in: Gastrointest Endosc 1997 Mar;45(3):326-8.

Endoscopy and biliary parasites. Bhargava DK. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):139-52 (65 ref.)

Endoscopic management of biliary complications after orthotopic liver transplantation. Hintze RE, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):258-62

Transjugular intrahepatic portosystemic stent-shunt (TIPSS) occlusion and the role of biliary venous fistulae. Jalan R, et al. **J Hepatol** 1996 Feb;24(2):169-76

Update on therapy for hepatobiliary diseases. Kowdley KV. **Nurse Pract** 1996 Jul;21(7):78, 81-4, 86 (30 ref.)

Percutaneous interventions in the biliary tree. Wu SM, et al. **Semin Roentgenol** 1997 Jul;32(3):228-45 (109 ref.)

Management of malignant biliary stricture with self-expanding metallic stent. Vitale GC, et al. **Surg Endosc** 1996 Oct;10(10):970-3

[Non-surgical treatment of biliary stenoses after hepatic transplantation] Bouttier E, et al. **J Radiol** 1997 Jul; 78(7):485-9 (18 ref.) (Eng. Abstr.) **(Fre)**

[Nine cases of malignant biliary stenosis treated with transpapillary placement of Wallstent] Kikuyama M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):73-8 **(Jpn)**

ULTRASONOGRAPHY

Biliary ascariasis. Kubaska SM, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):492

Sonographic evaluation of biliary ascariasis. Mani S, et al. **Australas Radiol** 1997 May;41(2):204-6

Clinical applications of a new through-the-scope ultrasound probe: prospective comparison with an ultrasound endoscope. Chak A, et al. **Gastrointest Endosc** 1997 Mar; 45(3):291-5

Endoscopic ultrasonography for diagnosing anomalous pancreaticobiliary junction. Sugiyama M, et al. **Gastrointest Endosc** 1997 Mar;45(3):261-7

Imaging of complications in liver transplantation. Nghiem HV, et al. **Radiographics** 1996 Jul;16(4):825-40

VETERINARY

Diagnostic exercise: abdominal distension and icterus in a spontaneous dwarf rat. Hamlen HJ, et al. **Lab Anim Sci** 1996 Oct;46(5):561-4

BILIARY TRACT HEMORRHAGE see **HEMOBILIA**

BILIARY TRACT NEOPLASMS

Endoscopy in the management of malignant obstructive jaundice. Kozarek RA. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):153-76 (65 ref.)

[Tumors of the liver and biliary system] Chlumská A. **Vnitr Lek** 1997 Mar;43(3):154-6 (Eng. Abstr.) **(Cze)**

[Early carcinoma of the biliary tract] Kitagawa H, et al. **Nippon Rinsho** 1996 May;54(5):1385-9 (13 ref.) (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

The case for parallel classification of biliary tract and pancreatic neoplasms. Longnecker DS, et al. **Mod Pathol** 1996 Aug;9(8):828-37 (64 ref.)

COMPLICATIONS

The transjugular stent implantation for the treatment of malignant portal and hepatic vein obstruction in cancer patients. Burger JA, et al. **Ann Oncol** 1997 Feb;8(2):200-2

Biliary Wallstent endoprosthesis in malignant hilar obstruction: long-term results with regard to the type of obstruction. Schima W, et al. **Clin Radiol** 1997 Mar; 52(3):213-9

Bile duct stents: is there an increased rate of complications in patients receiving chemotherapy? Lofts FJ, et al. **Eur J Cancer** 1997 Feb;33(2):209-13

Sequential changes of bile contents in patients with obstructive jaundice from different etiologies. Chen CY, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):796-9

Hereditary onset of multiple seborrheic keratoses: a variant of Leser Trélat sign? Yamamoto T, et al. **J Dermatol** 1996 Mar;23(3):191-5

Palliative surgery in malignant obstructive jaundice: prognostic indicators of early mortality. Shirahatti RG, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):238-43

Management of malignant biliary obstruction: nonoperative and palliative techniques. Shapiro MJ. **Oncology (Huntingt)** 1995 Jun;9(6):493-6, 499; discussion 499-500, 503 (35 ref.)

[Percutaneous bile drainage in neoplastic obstructive pathology of the biliary tract. Experience of the Hotel-Dieu of France in 100 drainages] Sukkarieh Chelala A, et al. **J Med Liban** 1996;44(4):187-94 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Clinical application of a new monoclonal antibody (19B7) against PIVKA-II in the diagnosis of hepatocellular carcinoma and pancreatobiliary malignancies. Nakao A, et al. **Am J Gastroenterol** 1997 Jun;92(6):1031-4

Strategies for imaging biliary neoplasms. Kruskal JB, et al. **Crit Rev Diagn Imaging** 1997 Jun;38(3):231-94 (47 ref.)

Mucinous biliary cystadenoma with mesenchymal stroma: expressions of CA 19-9 and carcinoembryonic antigen in serum and cystic fluid. Lee JH, et al. **J Gastroenterol** 1996 Oct;31(5):732-6 (22 ref.)

A case of biliary cystadenocarcinoma. Suh JI, et al. **Korean J Intern Med** 1997 Jan;12(1):109-13 (19 ref.)

[Tumor markers in the diagnosis of tumors of the liver and biliary tract] Mareček Z. **Vnitr Lek** 1997 Mar;43(3):167-70 (Eng. Abstr.) **(Cze)**

[1996 literature review: roentgen diagnosis of gallbladder and bile ducts] Merkle EM, et al. **Rontgenpraxis** 1997 Jan; 50(1):6-10 (19 ref.) **(Ger)**

DRUG THERAPY

Chemotherapy improves survival and quality of life in advanced pancreatic and biliary cancer. Glimelius B, et al. **Ann Oncol** 1996 Aug;7(6):593-600

Chemotherapy of biliary tract cancer with mitomycin-C and 5-fluorouracil biologically modulated by folinic acid. A phase II study [letter] Polyzos A, et al. **Ann Oncol** 1996 Aug;7(6):644-5

EPIDEMIOLOGY

Biliary tract cancers among textile and other workers in Shanghai, China. Chow WH, et al. **Am J Ind Med** 1996 Jul;30(1):36-40

Cholangiopathy and tumors of the pancreas, liver, and biliary tree in boys with X-linked immunodeficiency with hyper-IgM. Hayward AR, et al. **J Immunol** 1997 Jan 15; 158(2):977-83

ETIOLOGY

Menstrual and reproductive factors and biliary tract cancers. Tavani A, et al. **Eur J Cancer Prev** 1996 Aug;5(4):241-7

GENETICS

Ki-ras point mutations and proliferation activity in biliary

tract carcinomas. Ohashi K, et al. **Br J Cancer** 1996 Sep; 74(6):930–5

METABOLISM

DNA ploidy and S + G2M fraction (proliferative index) as prognostic determinants in human periampullary cancer. Jorba R, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):740–7

Immunohistochemical demonstration of progesterone receptor in hepatobiliary cystadenoma with mesenchymal stroma. Grayson W, et al. **Histopathology** 1996 Nov; 29(5):461–3

Differences in c-fos gene product expression in cancers of the gall-bladder and biliary tract. Lee CS. **Pathol Int** 1996 Oct;46(10):771–6

PATHOLOGY

A percutaneous biopsy technique for patients with suspected biliary or pancreatic cancer without a radiographic mass [see comments] Pelsang RE, et al. **Abdom Imaging** 1997 May–Jun;22(3):307–10. Comment in: Abdom Imaging 1997 May–Jun;22(3):311–2.

Biliary tree rhabdomyosarcoma: report of one case. Lee MJ, et al.
Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih 1996 Nov–Dec;37(6):458–60

Endobiliary cytotechniques for cancer diagnosis. Foutch PG. **Endoscopy** 1996 Oct;28(8):712–7 (36 ref.)

Assessment of right hepatic artery involvement in patients with biliary tract cancer using color Doppler ultrasonography. Tomiyama T, et al. **J Clin Ultrasound** 1997 Jul–Aug;25(6):317–23

A clinical study of 130 patients with biliary tract cancers and periampullary tumors. Su WC, et al. **Oncology** 1996 Nov–Dec;53(6):488–93

Laparoscopic minilaparotomy pancreaticoduodenectomy with lymphadenectomy using an abdominal wall-lift method. Uyama I, et al. **Surg Laparosc Endosc** 1996 Oct; 6(5):405–10

Endoductal tissue sampling of biliary strictures through endoscopic retrograde cholangiopan creatography (ERCP). Pugliese V, et al. **Tumori** 1997 May–Jun; 83(3):698–702

Endocrine cells in hepatobiliary cystadenomas and cystadenocarcinomas. Terada T, et al. **Virchows Arch** 1997 Jan;430(1):37–40

PREVENTION & CONTROL

[Early detection of hepatobiliary cancer in mass health screening] Kiyosawa K, et al. **Nippon Rinsho** 1996 May; 54(5):1425–30 (12 ref.) (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Retrograde cholangiography of malignant biliary strictures: spectrum of appearances and pitfalls. Low VH.
Abdom Imaging 1997 Jul–Aug;22(4):421–5

SURGERY

Open biliary tract surgery on 2023 patients based on personal experience. A clinical study. Seiro J.
Ann Chir Gynaecol Suppl 1996;212:1–121

Hepatobiliary cystadenomas and cystadenocarcinoma. Report of five cases. Gadzijev E, et al. **HPB Surg** 1996; 9(2):83–92 (28 ref.)

Laparoscopic minilaparotomy pancreaticoduodenectomy with lymphadenectomy using an abdominal wall-lift method. Uyama I, et al. **Surg Laparosc Endosc** 1996 Oct; 6(5):405–10

Preoperative risk assessment of hepatic resection for malignant disease. Cohnert TU, et al. **World J Surg** 1997 May;21(4):396–400; discussion 401

[The surgical and alternative treatment potentials in biliary tract cancer. I. Surgical treatment] Damianov D, et al.
Khirurgiia (Sofiia) 1996;49(5):8–12 (Eng. Abstr.) **(Bul)**

[Value of percutaneous catheter cholangiography in postoperative biliodigestive and bilio-biliary anastomoses] Barkhausen J, et al. **Aktuelle Radiol** 1996 Sep;6(5):239–42 (Eng. Abstr.) **(Ger)**

[Principles and value of lymph node excision in tumors of the pancreatobiliary system] Schumpelick V, et al.
Chirurg 1996 Sep;67(9):900–6 (68 ref.) (Eng. Abstr.) **(Ger)**

[Hepatobiliopancreatic surgery in patients over 70 years old: which anesthesia?] Barzoi G, et al. **Chir Ital** 1995;47(4):44–8 (Eng. Abstr.) **(Ita)**

[Supplying specialized surgical aid to patients with malignant neoformations of the organs of the hepato-pancreatico-biliary region] Iareshko VG, et al.
Klin Khir 1996;(10):40–1 **(Rus)**

THERAPY

Endoscopic placement of expandable biliary stents: current applicability. Dhir V, et al. **Indian J Gastroenterol** 1996 Oct;15(4):142–6 (30 ref.)

[The surgical and alternative treatment potentials in biliary tract cancer. II. Alternative potentials] Damianov D, et al. **Khirurgiia (Sofiia)** 1996;49(5):17–9 (Eng. Abstr.) **(Bul)**

[Palliative therapy of inoperable malignant occlusive jaundice--stent implantation or biliodigestive anastomosis] Truong S, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:762–6 (20 ref.) (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Staging laparoscopy with laparoscopic ultrasonography: optimizing resectability in hepatobiliary and pancreatic malignancy. Callery MP, et al. **J Am Coll Surg** 1997 Jul; 185(1):33–9

Assessment of right hepatic artery involvement in patients with biliary tract cancer using color Doppler ultrasonography. Tomiyama T, et al. **J Clin Ultrasound** 1997 Jul–Aug;25(6):317–23

BILIARY TRACT SURGERY

Double-blind comparison of cefazolin and ceftizoxime for prophylaxis against infections following elective biliary tract surgery. Jewesson PJ, et al.
Antimicrob Agents Chemother 1996 Jan;40(1):70–4

Biliary decompression promotes Kupffer cell recovery in obstructive jaundice. Clements WD, et al. **Gut** 1996 Jun; 38(6):925–31

[Present possibilities of correction of biliary tract injuries] Král V, et al. **Rozhl Chir** 1996 Apr;75(4):180–4 (Eng. Abstr.) **(Cze)**

[Biliary surgery in the aged] Catania G, et al.
Ann Ital Chir 1997 Jan–Feb;68(1):73–8; discussion 79 (Eng. Abstr.) **(Ita)**

[Iatrogenic biliary lesions and stenosis] Latteri S, et al.
G Chir 1997 Jan–Feb;18(1–2):61–4 (20 ref.) (Eng. Abstr.) **(Ita)**

[The "sump syndrome": a case treated by surgical endoscopy. A discussion about biliodigestive diversions and endoscopic sphincterotomies] De Monti M, et al.
Minerva Gastroenterol Dietol 1996 Jun;42(2):93–7 (22 ref.) (Eng. Abstr.) **(Ita)**

[Cardiac and vascular risk factors in surgery of cholecystitis] Panfilov BK. **Khirurgiia (Mosk)** 1996;(3):41–5 (Eng. Abstr.) **(Rus)**

[Use of the jejunal Roux-en-Y anastomosis in intra-abdominal surgery] Pechan J, et al.
Bratisl Lek Listy 1996 Dec;97(12):736–7 **(Slo)**

ADVERSE EFFECTS

Benign biliary strictures and sclerosing cholangitis. Meenan J, et al. **Gastrointest Endosc Clin N Am** 1996 Jan;6(1):127–38 (59 ref.)

Septic complications after biliary tract stone surgery: a review and report of the European prospective study. Cainzos M, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):959–67

Biliary sepsis: an ascending infection. Bapat RD, et al.
Indian J Gastroenterol 1996 Oct;15(4):126–8

Biliodigestive shunt evokes hyperCCKemia and trophic effects in the rat pancreas, but not in the liver or gastrointestinal tract. Ohlsson B, et al. **Pancreas** 1997 Apr; 14(3):255–61

ECONOMICS

Cost-effective analysis of surgical palliation versus endoscopic stenting in the management of unresectable pancreatic cancer. Raikar GV, et al. **Ann Surg Oncol** 1996 Sep;3(5):470–5

INSTRUMENTATION

Biliary stent stripes [letter] Moses F, et al.
Gastrointest Endosc 1996 Oct;44(4):510–1

METHODS

Multidisciplinary approach to the treatment of pediatric pancreaticobiliary disorders. Tagge EP, et al.
J Pediatr Surg 1997 Feb;32(2):158–64; discussion 164–5

Biliodigestive shunt evokes hyperCCKemia and trophic effects in the rat pancreas, but not in the liver or gastrointestinal tract. Ohlsson B, et al. **Pancreas** 1997 Apr; 14(3):255–61

Laparoscopic hepatobiliary surgery. Strasberg SM, et al.
Prog Liver Dis 1995;13:349–80 (131 ref.)

[Micro- and modern minilaparotomy in biliary tract surgery. (Remembering János Balassa)] Rozsos I. **Orv Hetil** 1996 Oct 13;137(41):2243–8 (38 ref.) (Eng. Abstr.) **(Hun)**

[The significance of morphologic changes in acute occlusive cholecystitis for determining the surgical approach] Iukhtin VI, et al. **Khirurgiia (Mosk)** 1996;(3):53–6 (Eng. Abstr.) **(Rus)**

[The choice of the bile-diverting operation for unresectable cancer of the pancreas and periampullary area] Alibegov RA, et al. **Klin Khir** 1996;(11–12):9–11 **(Rus)**

[A method for completing the restorative stage of pancreatoduodenal resection by forming a V-shaped biliobiliary anastomosis] Nazarenko PM, et al.
Vestn Khir Im I I Grek 1996;155(3):57–8 **(Rus)**

[A method for the external drainage of the biliary tract] Shul'hai AH, et al. **Klin Khir** 1996;(9):33–4 **(Ukr)**

STATISTICS & NUMERICAL DATA

Conventional treatment of biliary atresia: long-term results. Valayer J. **J Pediatr Surg** 1996 Nov;31(11):1546–51

BILINGUALISM see **MULTILINGUALISM**

BILIOPANCREATIC BYPASS see **BILIOPANCREATIC DIVERSION**

BILIOPANCREATIC DIVERSION

Anesthetic management of a patient combining myotonic dystrophy and obesity. Perilli V, et al.
Acta Anaesthesiol Belg 1997;48(2):101–5

Imaging of patients with pancreaticobiliary diversion for obesity: post-operative anatomy and findings in small bowel obstruction. Bertolotto M, et al. **Br J Radiol** 1996 Aug;69(824):708–6

Undiagnosed polyarthritis with positive anti-Ro/SSA antibodies following a biliopancreatic bypass for morbid obesity [letter] Zoli A, et al. **Clin Rheumatol** 1996 Sep; 15(5):514–5

Binge eating in obesity: a longitudinal study following biliopancreatic diversion. Adami GF, et al.
Int J Eat Disord 1996 Dec;20(4):405–13

An 18-year-old woman with familial chylomicronaemia who would not stick to a diet [see comments] Gasbarrini G, et al. **Lancet** 1996 Sep 21;348(9030):794. Comment in: Lancet 1996 Nov 30;348(9040):1524–5.

Twenty-four-hour energy and nutrient balance in weight stable postobese patients after biliopancreatic diversion. Tataranni PA, et al. **Nutrition** 1996 Apr;12(4):239–44

Biliopancreatic diversion with pylorus-preserving technique: a new method for the surgical control of hypercholesterolaemia and diabetes II? Noya G, et al.
Panminerva Med 1997 Mar;39(1):35–40

[Pregnancy after surgical therapy of obesity. Bibliographic review and our experience with biliopancreatic diversion] Friedman D, et al. **Minerva Ginecol** 1996 Sep;48(9):333–44 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Secondary hyperparathyroidism following biliopancreatic diversion. Chapin BL, et al. **Arch Surg** 1996 Oct; 131(10):1048–52; discussion 1053

METHODS

Biliary diversion. A new method to prevent enterogastric reflux and reverse the Roux stasis syndrome. Madura JA, et al. **Arch Surg** 1997 Mar;132(3):245–9

PSYCHOLOGY

Food- and weight-related attitudes in obese persons: a longitudinal study over two years following biliopancreatic diversion. Adami G, et al. **J Psychosom Res** 1996 Jul; 41(1):31–8

BILIRUBIN

see related
HYPERBILIRUBINEMIA

Calcium-induced bilirubin-dependent hemolysis of human erythrocytes. Ali MK, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):124–30

Observation on solubility and pro-nucleative activity of monoconjugated bilirubin. Zhu X, et al.
Chin Med J (Engl) 1996 Jul;109(7):542–6

ADVERSE EFFECTS

Experimental bilirubin pigmentation of rat dentine and its detection by a qualitative analytical method. Shibata T, et al. **Arch Oral Biol** 1996 May;41(5):509–11

ANALOGS & DERIVATIVES

Cell and gene therapy for inherited deficiency of bilirubin glucuronidation. Kim BH, et al. **J Perinatol** 1996 May–Jun; 16(3 Pt 2):S67–72 (39 ref.)

Rapid analysis of four bilirubins in domestic animal sera using high-performance liquid chromatography. Mizobe M, et al. **J Vet Med Sci** 1996 Jun;58(6):495–9

[A new method for assessing hepatocyte glucuronyl-conjugating function] Iastrems'ka OO, et al.
Fiziol Zh 1995 Sep–Dec;41(5–6):117–9 (Eng. Abstr.) **(Ukr)**

ANALYSIS

The LEC (Long-Evans Cinnamon) rat as an animal model for bilirubin-induced tooth pigmentation. Shibata T, et al.
Anticancer Res 1997 May–Jun;17(3C):2141–5

Presence of free radicals in pigment gallstone in vivo. Shen T, et al. **Chin Med J (Engl)** 1996 Jun;109(6):446–9

Cytotoxicity of bilirubin for human fibroblasts and rat astrocytes in culture. Effect of the ratio of bilirubin to serum albumin. Chuniaud L, et al. **Clin Chim Acta** 1996 Dec 30;256(2):103–14

Assessment of non-acid esophageal reflux: comparison between long-term reflux aspiration test and fiberoptic bilirubin monitoring. Stipa F, et al. **Dis Esophagus** 1997 Jan;10(1):24–8

Deconjugation of bilirubin accelerates coprecipitation of cholesterol, fatty acids, and mucin in human bile--in vitro study. Higashijima H, et al. **J Gastroenterol** 1996 Dec; 31(6):828–35

Bilirubin levels and weight change in infants with early

hospital discharge versus prolonged hospital stay. Sward-Comunelli S, et al. **J Perinatol** 1996 May-Jun;16(3 Pt 1):211-4

Rapid and quantitative analysis of bilirubin in equines by high-performance liquid chromatography. Mizobe M, et al. **Microbios** 1996;86(346):39-47

Monoconjugated bilirubin as a possible factor in cholesterol gallstone pathogenesis. Lesma A, et al. **Minerva Chir** 1997 Jun;52(6):771-5

Transcutaneous bilirubinometry decreases the need for serum bilirubin measurements and saves money. Maisels MJ, et al. **Pediatrics** 1997 Apr;99(4):599-601

Kernicteric findings at autopsy in two sick near term infants. Perlman JM, et al. **Pediatrics** 1997 Apr;99(4):612-5

Study of lithogenicity of bile among patients suffering from cholecystolithiasis and among patients not suffering from this disease. Kamocki Z, et al. **Rocz Akad Med Bialymst** 1995;40(2):267-75

Analysis of bilirubin fraction in the bile for early diagnosis of acute rejection in living related liver transplantation. Akamatsu Y, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):145-54

BIOSYNTHESIS

Control of bilirubin production by synthetic heme analogs: pharmacologic and toxicologic considerations. Drummond GS, et al. **J Perinatol** 1996 May-Jun;16(3 Pt 2):S72-9 (36 ref.)

BLOOD

Photooxidant injury to glucose-6-phosphate dehydrogenase-deficient erythrocytes with bilirubin as the sensitizer--an in vitro study. Karthikeyan G, et al. **Acta Paediatr** 1997 Mar;86(3):321-2

Transcutaneous bilirubinometry in Chinese, Malay and Indian infants. Tan KL, et al. **Acta Paediatr** 1996 Aug;85(8):986-90

Development of jaundice in Korean neonates after cesarean section. Lee CS, et al. **Acta Paediatr Jpn** 1997 Jun; 39(3):309-11

Bilirubinemia in asphyxiated term infants. A clinical observation. Harrison H Jr, et al. **Alaska Med** 1996 Jul-Sep; 38(3):98-100

The serum icteric-index as a tool to correct the influence of bilirubin on the uric acid and magnesium analyses on the Hitachi 747 analyser. van de Water C, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):556-8

Relationship between bilirubin, apolipoprotein B, and coronary artery disease. Levinson SS. **Ann Clin Lab Sci** 1997 May-Jun;27(3):185-92

Serum bilirubin pigments covalently linked to albumin. Gordon ER, et al. **Arch Pathol Lab Med** 1996 Jul; 120(7):648-53

Serum bilirubin distribution and its relation to cardiovascular risk in children and young adults. Madhavan M, et al. **Atherosclerosis** 1997 May;131(1):107-13

Influence of bilirubin on the antioxidant capacity of plasma in newborn infants. Bélanger S, et al. **Biol Neonate** 1997; 71(4):233-8

Cephalocaudal progression of jaundice in newborns admitted to neonatal intensive care units. Knudsen A, et al. **Biol Neonate** 1997;71(6):357-61

Early changes in cutaneous bilirubin and serum bilirubin isomers during intensive phototherapy of jaundiced neonates with blue and green light. Myara A, et al. **Biol Neonate** 1997;71(2):75-82

Transcutaneous bilirubinometry: its role in the assessment of neonatal jaundice. Dai J, et al. **Clin Biochem** 1997 Feb; 30(1):1-9 (67 ref.)

Clinical impact of transcutaneous bilirubinometry as an adjunctive screen for hyperbilirubinemia. Dai J, et al. **Clin Biochem** 1996 Dec;29(6):581-6

Errors in neonatal bilirubin measurement [letter] Rosenthal P. **Clin Chem** 1996 Nov;42(11):1880-1

Bilirubin and metamizol do not interfere with the randox enzymatic creatinine test. An evaluation of a new enzymatic creatinine determination method. Harmoinen AP. **Eur J Clin Chem Clin Biochem** 1996 Dec;34(12):975-6

Plasma sulfobromophthalein disappearance in Gilbert's syndrome. Serra MA, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):210-4

Safe bilirubin level for term babies with non-hemolytic jaundice [letter] Dhaded SM, et al. **Indian Pediatr** 1996 Dec;33(12):1059-60

Role of bilirubin in pregnancy-induced hypertension [letter] Chandra L, et al. **Int J Gynaecol Obstet** 1996 Jun; 53(3):267-8

Increased plasma bilirubin in Parkinson patients on L-dopa: evidence against the free radical hypothesis? Scigliano G, et al. **Ital J Neurol Sci** 1997 Apr;18(2):69-72

Serum bilirubin and cardiovascular risk factors in a Chinese population. Ko GT, et al. **J Cardiovasc Risk** 1996 Oct; 3(5):459-63

Fractionation of serum bilirubin conjugates in the exploration of the pathogenesis of significant neonatal bilirubinemia associated with glucose-6-phosphate dehydrogenase deficiency [letter; comment] Valaes T. **J Pediatr** 1997 Apr; 130(4):678-9. Comment on: J Pediatr 1996 May;128(5 Pt 1):695-7.

Criteria for treatment of neonatal jaundice. Bratlid D. **J Perinatol** 1996 May-Jun;16(3 Pt 2):S83-8 (32 ref.)

Significance of serum delta bilirubin during obstructive jaundice in dogs. Higashijima H, et al. **J Surg Res** 1996 Dec;66(2):119-24

The influence of clinical status on total bilirubin binding capacity in newborn infants. Satar M, et al. **J Trop Pediatr** 1996 Feb;42(1):43-5

Rapid analysis of four bilirubins in domestic animal sera using high-performance liquid chromatography. Mizobe M, et al. **J Vet Med Sci** 1996 Jun;58(6):495-9

Are elevated aminotransferases and decreased bilirubin additional characteristics of the metabolic syndrome? Torgerson JS, et al. **Obes Res** 1997 Mar;5(2):105-14

The effect of intrauterine transfusion on fetal bilirubin in red cell alloimmunization. Goodrum LA, et al. **Obstet Gynecol** 1997 Jan;89(1):57-60

Duration of action and tissue distribution of zinc protoporphyrin in neonatal rats. Rodgers PA, et al. **Pediatr Res** 1996 Jun;39(6):1041-9

A simple prognostic index for patients with acute renal failure requiring dialysis. French Multicentric Prospective Study on Furosemide in Acute Renal Failure Requiring Dialysis. Cantarovich F, et al. **Ren Fail** 1996 Jul;18(4):585-92

A modification of the acid diazo coupling method (Malloy-Evelyn) for the determination of serum total bilirubin. Parviainen MT. **Scand J Clin Lab Invest** 1997 May;57(3):275-9

Icteric plasma suggests Gilbert's syndrome in the blood donor. Naiman JL, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):974-8

Gilbert's syndrome: a possible cause of hyperbilirubinemia after orthotopic liver transplantation. Lachaux A, et al. **Transplant Proc** 1996 Oct;28(5):2846

[Hyperbilirubinemia in healthy full-term neonates: guidelines for diagnosis and treatment. Ad-hoc Commission Hyperbilirubinemia and Phototherapy of the Section Neonatology of the Netherlands Society for Pediatrics (see comments)] Fetter WP, et al. **Ned Tijdschr Geneeskd** 1997 Jan 18;141(3):140-3 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Mar 8;141(10):495-6. **(Dut)**

[Hyperbilirubinemia in healthy full-term neonates: guidelines for diagnosis and treatment (letter; comment)] Nabben FA. **Ned Tijdschr Geneeskd** 1997 Mar 8;141(10):495-6. Comment on: Ned Tijdschr Geneeskd 1997 Jan 18;141(3):140-3. **(Dut)**

[Age-dependence of laboratory values in dogs and cats. III. Bilirubin, creatinine and proteins in serum] Kraft W, et al. **Tierarztl Prax** 1996 Dec;24(6):610-5 (Eng. Abstr.) **(Ger)**

[Blood chemical analysis. F. Fluctuations in the bilirubin contents caused by changes in instrument, reagents, and sample containers used in the test] Iizuka K, et al. **Rinsho Byori** 1996 Nov;Suppl 103:187-91 **(Jpn)**

CHEMISTRY

Chemiluminescence arising from the oxidation of bilirubin in aqueous media. Palilis LP, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):71-2

Transcutaneous bilirubinometry: its role in the assessment of neonatal jaundice. Dai J, et al. **Clin Biochem** 1997 Feb; 30(1):1-9 (67 ref.)

[An observation on nucleating activity of monoconjugated bilirubin (MCB) in model bile system] Wang RH, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):662-5 (Eng. Abstr.) **(Chi)**

ISOLATION & PURIFICATION

Microspheres based detoxification system: a new method in convective blood purification. von Appen K, et al. **Artif Organs** 1996 May;20(5):420-5

New sorbent for bilirubin removal from human plasma: Cibacron Blue F3GA-immobilized poly(EGDMA-HEMA) microbeads. Kocakulak M, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):271-6

METABOLISM

Acute management of extreme neonatal jaundice--the potential benefits of intensified phototherapy and interruption of enterohepatic bilirubin circulation. Hansen TW. **Acta Paediatr** 1997 Aug;86(8):843-6

Pre-operative time course changes in liver function tests in biliary atresia: its usefulness in the discrimination of biliary atresia in early infancy. Yamagiwa I, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):506-12

Bilirubin metabolism and kernicterus. Gourley GR. **Adv Pediatr** 1997;44:173-229 (346 ref.)

Increased expression of low-density lipoprotein receptors in a Smith-Lemli-Opitz infant with elevated bilirubin levels. Ness GC, et al. **Am J Med Genet** 1997 Jan 31;68(3):294-9

Bilirubinuria, conjugated hyperbilirubinaemia and delta bilirubinaemia following acute haemolysis. Cummins D, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):109-10

Binding of [3H]bilirubin to albumin and plasma membrane vesicles [letter; comment] McDonagh AF. **Biochem J** 1997 Jan 1;321 (Pt 1):262-4. Comment on: Biochem J 1996 Jun 15;316 (Pt 3):999-1004.

Oxidation of bilirubin by brain mitochondrial membranes--dependence on cell type and postnatal age. Hansen TW, et al. **Biochem Mol Med** 1997 Apr; 60(2):155-60

Differential effect of hypophysectomy and growth hormone treatment on hepatic glucuronosyltransferases in male rats: evidence for an action at a pretranslational level for isoforms glucuronidating bilirubin. Gueraud F, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1637-47

Bilirubin-oxidizing activity in rat brain. Hansen TW, et al. **Biol Neonate** 1996;70(5):289-95

Early changes in cutaneous bilirubin and serum bilirubin isomers during intensive phototherapy of jaundiced neonates with blue and green light. Myara A, et al. **Biol Neonate** 1997;71(2):75-82

Spectroscopic probes of the individual and combined effects of Triton X-100 and chloroform on serum albumins and serum-albumin.bilirubin complexes. Patra SK, et al. **Eur J Biochem** 1997 Jun 15;246(3):658-64

Bilirubin oxidation provoked by endotoxin treatment is suppressed by feeding ascorbic acid in a rat mutant unable to synthesize ascorbic acid. Yamaguchi T, et al. **Eur J Biochem** 1997 Apr 15;245(2):233-40

Complete correction of hyperbilirubinemia in the Gunn rat model of Crigler-Najjar syndrome type I following transient in vivo adenovirus-mediated expression of human bilirubin UDP-glucuronosyltransferase. Askari FK, et al. **Gene Ther** 1996 May;3(5):381-8

New concepts in bilirubin and jaundice: report of the Third International Bilirubin Workshop, April 6-8, 1995, Trieste, Italy. Tiribelli C, et al. **Hepatology** 1996 Nov; 24(5):1296-311

Influence of dietary calcium phosphate on the disposition of bilirubin in rats with unconjugated hyperbilirubinemia. Van Der Veere CN, et al. **Hepatology** 1996 Sep;24(3):620-6

Comparison of biochemical parameters in pleural effusion. Lakhotia M, et al. **J Assoc Physicians India** 1996 Sep; 44(9):612-4

Characterization of cyanobacterial biliverdin reductase. Conversion of biliverdin to bilirubin is important for normal phycobiliprotein biosynthesis. Schluchter WM, et al. **J Biol Chem** 1997 May 23;272(21):13562-9

Genetic diseases of bilirubin metabolism: the inherited unconjugated hyperbilirubinemias. Jansen PL. **J Hepatol** 1996 Sep;25(3):398-404 (60 ref.)

Evaluation of neonatal jaundice: monitoring the transition in bilirubin metabolism. Stevenson DK, et al. **J Perinatol** 1996 May-Jun;16(3 Pt 2):S62-7 (20 ref.)

Cross-linking of vitreous collagen and degradation of hyaluronic acid induced by bilirubin-sensitized photochemical reaction. Hikichi T, et al. **Jpn J Ophthalmol** 1997 May-Jun;41(3):154-9

Bilirubin entry into and clearance from rat brain during hypercarbia and hyperosmolality. Hansen TW. **Pediatr Res** 1996 Jan;39(1):72-6

Carbon monoxide and bilirubin production in neonates. Stevenson DK, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):252-4

cDNA cloning of the mouse bilirubin/phenol family of UDP-glucuronosyltransferase (mUGTbr2-like). Chu Q, et al. **Pharm Res** 1997 May;14(5):662-6

Does ibuprofen affect bilirubin-albumin binding in newborn infant serum? Cooper-Peel C, et al. **Pharmacol Toxicol** 1996 Dec;79(6):297-9

Molecular biology of bilirubin metabolism. Jansen PL, et al. **Prog Liver Dis** 1995;13:125-50 (159 ref.)

Characterization of membrane transport processes: lessons from the study of BSP, bilirubin, and fatty acid uptake. Berk PD, et al. **Semin Liver Dis** 1996 May;16(2):107-20 (69 ref.)

Intracellular transport of small hydrophobic compounds by the hepatocyte. Zucker SD, et al. **Semin Liver Dis** 1996 May;16(2):159-67 (84 ref.)

[Hepatic metabolism and transport of bilirubin and other organic anions] Adachi Y, et al. **Nippon Rinsho** 1996 Aug; 54(8):2276-90 (94 ref.) (Eng. Abstr.) **(Jpn)**

[Spinal intramedullary cavernous angioma associated with hematomyelia: case report with sequential MRI follow-up and histological verification of hematoidin deposits] Nagashima C, et al. **No Shinkei Geka** 1996 Dec; 24(12):1125-32 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

Transepithelial fate of bilirubin in the isolated rat kidney. Elías MM, et al. **Biochim Biophys Acta** 1997 Jul 19; 1336(1):7-14

Autoradiographic mapping of local cerebral permeability to bilirubin in immature rats: effects of hyperbilirubinemia. Roger C, et al. **Pediatr Res** 1996 Jan;39(1):64-71

PHARMACOLOGY

Influence of bilirubin on surface tension properties of lung surfactant. Amato M, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov;75(3):F191-6

Unconjugated bilirubin inhibits in vitro cytotoxic T lymphocyte activity of human lymphocytes. Haga Y, et al. **Biochim Biophys Acta** 1996 Oct 7;1317(1):65-70

Bilirubin sensitized photooxidation of human plasma low density lipoprotein. Hulea SA, et al. **Biochim Biophys Acta** 1996 Dec 13;1304(3):197-209

Effect of acidosis on bilirubin-lipid extract surfactant interaction. Amato M, et al. **Biol Neonate** 1995;68(5):301-7

Bilirubin has widespread inhibitory effects on protein phosphorylation. Hansen TW, et al. **Pediatr Res** 1996 Jun; 39(6):1072-7

The in vivo effect of bilirubin on the N-methyl-D-aspartate receptor/ion channel complex in the brains of newborn piglets. Hoffman DJ, et al. **Pediatr Res** 1996 Dec; 40(6):804-8

Effect of bilirubin on erythrocyte shape and haemolysis, under hypotonic, aggregating or non-aggregating conditions, and correlation with cell age. Brites D, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):337-49

Large intravenous loads of bilirubin photoconversion products, in contrast to bilirubin, do not cause cholestasis in bile acid-depleted pigs. Bjlrnbeth BA, et al. **Scand J Gastroenterol** 1997 Mar;32(3):246-53

PHYSIOLOGY

New physiological importance of two classic residual products: carbon monoxide and bilirubin. Marilena G. **Biochem Mol Med** 1997 Aug;61(2):136-42 (43 ref.)

Influence of bilirubin on the antioxidant capacity of plasma in newborn infants. Bélanger S, et al. **Biol Neonate** 1997; 71(4):233-8

Bilirubin, REM sleep, and phototransduction of environmental time cues. A hypothesis. Oren DA. **Chronobiol Int** 1997 May;14(3):319-29 (75 ref.)

Bilirubin cycles enterohepatically after ileal resection in the rat [see comments] Brink MA, et al. **Gastroenterology** 1996 Jun;110(6):1945-57. Comment in: Gastroenterology 1996 Jun;110(6):2013-4.

The increasingly complex molecular life cycle of bilirubin [editorial; comment] Soloway RD. **Gastroenterology** 1996 Jun;110(6):2013-4 (19 ref.). Comment on: Gastroenterology 1996 Jun;110(6):1945-57.

SECRETION

Significance of taurine conjugation of bile acid in the biliary excretion of bilirubin. Yamao J, et al. **Adv Exp Med Biol** 1996;403:99-106

Intestinal excretion of unconjugated bilirubin in man and rats with inherited unconjugated hyperbilirubinemia. Kotal P, et al. **Pediatr Res** 1997 Aug;42(2):195-200

TOXICITY

Cytotoxicity of bilirubin for human fibroblasts and rat astrocytes in culture. Effect of the ratio of bilirubin to serum albumin. Chuniaud L, et al. **Clin Chim Acta** 1996 Dec 30;256(2):103-14

Mapping of the consequences of bilirubin exposure in the immature rat: local cerebral metabolic rates for glucose during moderate and severe hyperbilirubinemia. Roger C, et al. **Early Hum Dev** 1995 Oct 2;43(2):133-44

URINE

Bilirubinuria, conjugated hyperbilirubinaemia and delta bilirubinaemia following acute haemolysis. Cummins D, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):109-10

BILIRUBIN ENCEPHALOPATHY see **KERNICTERUS**

BILIRUBINEMIA see **HYPERBILIRUBINEMIA**

BILIVERDINE

ANALOGS & DERIVATIVES

Effect of chromophore exchange on the resonance Raman spectra of recombinant phytochromes. Kneip C, et al. **FEBS Lett** 1997 Sep 1;414(1):23-6

Raman spectroscopic analysis of isomers of biliverdin dimethyl ester. Matysik J, et al. **J Pharm Biomed Anal** 1997 Jun;15(9-10):1319-24

The methylotrophic yeast Pichia pastoris synthesizes a functionally active chromophore precursor of the plant photoreceptor phytochrome. Wu SH, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8989-94

METABOLISM

Characterization of cyanobacterial biliverdin reductase. Conversion of biliverdin to bilirubin is important for normal phycobiliprotein biosynthesis. Schluchter WM, et al. **J Biol Chem** 1997 May 23;272(21):13562-9

Oxidation of alpha-meso-formylmesoheme by heme oxygenase. Electronic control of the reaction regiospecificity. Torpey J, et al. **J Biol Chem** 1997 Aug 29;272(35):22008-14

BILL, AVIAN see **BEAK**

BINAZINE see **TODRALAZINE**

BINDING, COMPETITIVE

Effect of irradiation on the GTP binding kinetics of chicken embryo brain plasma membranes. Takáts A, et al. **Acta Physiol Hung** 1995;83(4):343-53

An improved method for analysis of competitive agonist/antagonist interactions by non-linear regression. Lew MJ, et al. **Ann N Y Acad Sci** 1997 May 30;812:179-81

Pharmacological modulation of immunoreactive imidazoline receptor proteins in rat brain: relationship with non-adrenoceptor [3H]-idazoxan binding sites. Escribá PV, et al. **Br J Pharmacol** 1996 Aug;118(8):2029-36

Characterization of [125I]-endothelin-1 and [125I]-BQ3020 binding to rat cerebellar endothelin receptors. Widdowson PS, et al. **Br J Pharmacol** 1996 Aug;118(8):2126-30

Simultaneous determination of binding of a variety of radioligands related to ionotropic excitatory amino acid receptors in fetal and neonatal rat brains. Enomoto R, et al. **Brain Res** 1996 Jun 3;723(1-2):100-9

Distribution and characterisation of the [3H](S)-zacopride labelled 5-HT3 receptor in pig forebrain. Fletcher S, et al. **Brain Res** 1996 Aug 12;729(2):281-4

ST/b and DBA/2 mice differ in brain alpha-bungarotoxin binding and alpha 7 nicotinic receptor subunit mRNA levels: a quantitative autoradiographic analysis. Marks MJ, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1-2):207-22

Competitive binding of highly de-N-acetylated chitosans and N,N'-diacetylchitobiose to lysozyme from chicken egg white studied by 1H NMR spectroscopy. Kristiansen A, et al. **Carbohydr Res** 1996 Aug 19;289:143-50

Voltage dependence of mouse acetylcholine receptor gating: different charge movements in di-, mono- and unliganded receptors. Auerbach A, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):155-70

Localization and pharmacological characterization of somatostatin recognition sites in the human cerebellum. Piwko C, et al. **Neuropharmacology** 1996 Jun;35(6):713-23

Binding of Tyr-W-MIF-1 (Tyr-Pro-Trp-Gly-NH2) and related peptides to mu 1 and mu 2 opiate receptors. Zadina JE, et al. **Neurosci Lett** 1996 Aug 30;215(1):65-9

Dopamine D2 receptors are organized in bands in normal human temporal cortex. Goldsmith SK, et al. **Neuroscience** 1996 Sep;74(2):435-51

Increased open field locomotion and decreased striatal GABAA binding after activity wheel running. Dishman RK, et al. **Physiol Behav** 1996 Sep;60(3):699-705

Synthesis and characterization of substituted benzoylhydrazones of naloxone. Ciszewska GR, et al. **Synapse** 1996 Oct;24(2):193-201

The advantage of using positron emission tomography in drug research. Farde L. **Trends Neurosci** 1996 Jun; 19(6):211-4

DRUG EFFECTS

Comparison of drug binding interactions on human, rat and rabbit serum albumin using high-performance displacement chromatography. Aubry AF, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1995 Nov;112(3):257-66

YM-50001: a novel, potent and selective dopamine D4 receptor antagonist. Hidaka K, et al. **Neuroreport** 1996 Nov 4;7(15-17):2543-6

Co-alteration of dopamine D2 receptor and muscarinic acetylcholine receptor binding in rat striatum after circling training. Ibarra GR, et al. **Neuroreport** 1996 Nov 4; 7(15-17):2491-4

Thyroid hormonal modulation of the binding and activity of the GABAA receptor complex of brain. Martin JV, et al. **Neuroscience** 1996 Aug;73(3):705-13

Characteristics of albumin binding to opossum kidney cells and identification of potential receptors. Brunskill NJ, et al. **Pflugers Arch** 1997 Feb;433(4):497-504

PHYSIOLOGY

Densitometrical analysis of opioid receptor ligand binding in the human striatum--I. Distribution of mu opioid receptor defines shell and core of the ventral striatum. Voorn P, et al. **Neuroscience** 1996 Dec;75(3):777-92

BINDING PROTEINS see **CARRIER PROTEINS**

BINDING SITES

see related
PROTEIN BINDING
RECEPTORS, CELL SURFACE

Lectin binding characteristics of squamous cell carcinomas of the head and neck. Lalwani AK, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):125-31

Direct evidence of the production of IgA by tonsillar lymphocytes and the binding of IgA to the glomerular mesangium of IgA nephropathy patients. Tokuda M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:182-4

Insight into antibody combining sites using nuclear magnetic resonance and spin label haptens. McConnell HM, et al. **Adv Protein Chem** 1996;49:135-48 (27 ref.)

Effect of alcohol on the endotoxin binding protein produced in the liver. Fukui H, et al. **Alcohol Alcohol** 1994;29 Suppl 1:87-91

Effect of ethanol treatment on the activity and amount of stimulatory GTP-binding regulatory protein (Gs) in S49 murine lymphoma cells and human erythrocytes. Nakamura J. **Alcohol Alcohol** 1994;29 Suppl 1:61-5

Identification of cell adhesive active sites in the N-terminal domain of thrombospondin-1. Clezardin P, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):819-27

Role of methionine in the active site of alpha-galactosidase from Trichoderma reesei. Kachurin AM, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):955-64

Utilization of troponin C as a model calcium-binding protein for mapping of the calmodulin-binding sites of caldesmon. Polyakov AA, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):873-8

High-affinity calcium-binding site in the gama-carboxyglutamic acid domain of bovine factor VII. Inoue K, et al. **Biochemistry** 1996 Oct 29;35(43):13826-32

Localization of nucleolin binding sites on human and mouse pre-ribosomal RNA. Serin G, et al. **Biochimie** 1996; 78(6):530-8

Microspectroscopic imaging of nodulation factor-binding sites on living Vicia sativa roots using a novel bioactive fluorescent nodulation factor. Gadella TW Jr, et al. **Biophys J** 1997 May;72(5):1986-96

The statistical-thermodynamic basis for computation of binding affinities: a critical review. Gilson MK, et al. **Biophys J** 1997 Mar;72(3):1047-69

Use of the two-hybrid system and random sonicated DNA to identify the interaction domain of a protein. Stagljar I, et al. **Biotechniques** 1996 Sep;21(3):430-2

Cryptophycin 1 binds to tubulin at a site distinct from the colchicine binding site and at a site that may overlap the vinca binding site. Mooberry SL, et al. **Cancer Lett** 1996 Oct 1;107(1):53-7

Just add water! The effect of water on the specificity of protein-ligand binding sites and its potential application to drug design. Ladbury JE. **Chem Biol** 1996 Dec; 3(12):973-80 (39 ref.)

Fluorescence localization of anti-pregnant rat kidney antibody and lectin binding analysis in exencephalic rat embryos. Fujii M, et al. **Childs Nerv Syst** 1996 Oct; 12(10):595-603

What makes a binding site a binding site? Ringe D. **Curr Opin Struct Biol** 1995 Dec;5(6):825-9 (22 ref.)

Properties of the purified, recombinant, NADP(H)-binding domain III of the proton-translocating nicotinamide nucleotide transhydrogenase from Rhodospirillum rubrum. Diggle C, et al. **Eur J Biochem** 1996 Oct 1;241(1):162-70

The multiple origins of cooperativity in binding to multi-site lattices. Sackett DL, et al. **FEBS Lett** 1996 Nov 11; 397(1):1-6 (19 ref.)

Platelet [3H]imipramine and [3H]paroxetine binding in depressed patients. Rosel P, et al. **J Affect Disord** 1997 Jun;44(1):79-85

Characterization of [3H]MK-801 binding to N-methyl-D-aspartate receptors in cultured rat cerebellar granule neurons and involvement in glutamate-mediated toxicity. Berman FW, et al. **J Biochem Toxicol** 1996; 11(5):217-26

An automated method for predicting the positions of hydrogen-bonding atoms in binding sites. Mills JE, et al. **J Comput Aided Mol Des** 1997 May;11(3):229-42

Nudicauline and elatine as potent norditerpenoid ligands at rat neuronal alpha-bungarotoxin binding sites: importance of the 2-(methylsuccinimido)benzoyl moiety for neuronal nicotinic acetylcholine receptor binding. Hardick DJ, et al. **J Med Chem** 1996 Nov 22;39(24):4860-6

Characterization of the high-affinity verapamil binding site in a plant plasma membrane Ca2+-selective channel. Piñeros M, et al. **J Membr Biol** 1997 May 15;157(2):139-45

Low striatal D2 receptor binding as assessed by [123I]IBZM SPECT in patients with writer's cramp [letter] Horstink CA, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun; 62(6):672-3

Dopamine receptor binding predicts clinical and pharmacological potencies of antischizophrenic drugs. Creese I, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):223-6

High affinity binding sites for 12(R)-Hydroxyeicosatrienoic acid [12(R)-HETrE] in microvessel endothelial cells. Stoltz RA, et al. **J Ocul Pharmacol Ther** 1997 Jun;13(3):191-9

Cyclic GMP-gated channels of bovine rod photoreceptors: affinity, density and stoichiometry of Ca(2+)-calmodulin binding sites. Bauer PJ. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):675-85

Prediction of location of active sites in biologically active peptides. Kikuchi T. **J Protein Chem** 1996 Aug; 15(6):539-45

Initial characterization of autoprocessing and active-center mutants of CMV proteinase. Snyder SW, et al. **J Protein Chem** 1996 Nov;15(8):763-74

A single photon emission computed tomography scan study of striatal dopamine D2 receptor binding with 123I-epidepride in patients with schizophrenia and controls. Tibbo P, et al. **J Psychiatry Neurosci** 1997 Jan; 22(1):39-45

Polymorphism of the predictive antigenic sites on the V3 loop of Brazilian HIV-1 subtype B strains. HEC/FIOCRUZ AIDS Clinical Research Group. Morgado MG, et al. **Mem Inst Oswaldo Cruz** 1996 May-Jun;91(3):339-42

Binding site of the M-domain of human protein SRP54 determined by systematic site-directed mutagenesis of signal recognition particle RNA. Gowda K, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):388-94

Monoclonal antibodies specific for underphosphorylated retinoblastoma protein identify a cell cycle regulated phosphorylation site targeted by CDKs. Zarkowska T, et al. **Oncogene** 1997 Jan 16;14(2):249-54

A compendium and hydropathy/flexibility analysis of common reactive sites in proteins: reactivity at Asn, Asp, Gln, and Met motifs in neutral pH solution. Amphlett G, et al. **Pharm Biotechnol** 1996;9:1-140 (165 ref.)

Systematic derivation of partition functions for ligand binding to two-dimensional lattices. Wang L, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12953-8

A novel binding site in catalase is suggested by structural similarity to the calycin superfamily. Russell RB, et al. **Protein Eng** 1996 Feb;9(2):107-11

Serotonin-2 and dopamine-1 binding components of clozapine in frontal cortex and striatum in the human brain

visualized by positron emission tomography. Lundberg T, et al. **Psychiatry Res** 1996 May 31;67(1):1–10

Test–retest reliability of central [11C]raclopride binding at high D2 receptor occupancy. A PET study in haloperidol–treated patients. Nyberg S, et al. **Psychiatry Res** 1996 Oct 7;67(3):163–71

Benzodiazepine receptor distribution and diazepam binding in schizophrenia: an exploratory study. Schröder J, et al. **Psychiatry Res** 1997 Feb 7;68(2–3):125–31

Crystal structures of nucleoside 2–deoxyribosyltransferase in native and ligand–bound forms reveal architecture of the active site. Armstrong SR, et al. **Structure** 1996 Jan 15; 4(1):97–107

Substrate mimicry in the active center of a mammalian alpha–amylase: structural analysis of an enzyme–inhibitor complex. Bompard–Gilles C, et al. **Structure** 1996 Dec 15; 4(12):1441–52

DRUG EFFECTS

Lack of dopamine receptor agonists effect on striatal dopamine transporter binding sites. Little KY, et al. **Brain Res** 1996 Dec 2;742(1–2):313–6

mu–Opioid receptor binding in chicken brain in relation to degree of food restriction: a quantitative autoradiographic study. Stewart MG, et al. **Brain Res** 1996 Dec 2; 742(1–2):343–6

Distribution of cholinergic neuronal differentiation factor/leukemia inhibitory factor binding sites in the developing and adult rat nervous system in vivo. Qiu L, et al. **J Neurobiol** 1997 Feb;32(2):163–92

GENETICS

Active site mutants implicate key residues for control of color and light cycle kinetics of photoactive yellow protein. Genick UK, et al. **Biochemistry** 1997 Jan 7;36(1):8–14

Active site directed mutagenesis of 3 beta/17 beta–hydroxysteroid dehydrogenase establishes differential effects on short–chain dehydrogenase/reductase reactions. Oppermann UC, et al. **Biochemistry** 1997 Jan 7;36(1):34–40

Characterization of Eu(III) binding to a series of calmodulin binding site mutants using laser–induced Eu(III) luminescence spectroscopy. Bruno J, et al. **Biophys Chem** 1996 Dec 10;63(1):1–16

Site–directed mutagenesis of the cysteine residues in the Pichia stipitis xylose reductase. Zhang Y, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):227–32

Hepatocyte nuclear factor 4 (HNF4) binding sites in the salmon HNF1 promoter. Deryckere F, et al. **Gene** 1996 Oct 10;175(1–2):35–41

Extending filamentous phage host range by the grafting of a heterologous receptor binding domain. Marzari R, et al. **Gene** 1997 Jan 31;185(i):27–33

A null allele for the Afm175xg3 marker at locus D17S795 caused by a primer binding failure. Mochi M, et al. **Int J Legal Med** 1996;109(2):104–6

In vitro selection of optimal AbrB–binding sites: comparison to known in vivo sites indicates flexibility in AbrB binding and recognition of three–dimensional DNA structures. Xu K, et al. **Mol Microbiol** 1996 Jan;19(1):145–58

Binding site of the M–domain of human protein SRP54 determined by systematic site–directed mutagenesis of signal recognition particle RNA. Gowda K, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):388–94

Protein footprinting approach to mapping DNA binding sites of two archaeal homing enzymes: evidence for a two–domain protein structure. Lykke–Andersen J, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3982–9

Interlobe communication in multiple calcium–binding site mutants of Drosophila calmodulin. Mukherjea P, et al. **Protein Sci** 1996 Mar;5(3):468–77

IMMUNOLOGY

Antibody binding sites. Huston JS, et al. **Adv Protein Chem** 1996;49:329–450 (326 ref.)

PHYSIOLOGY

Endoproteinase activity of type A botulinum neurotoxin: substrate requirements and activation by serum albumin. Schmidt JJ, et al. **J Protein Chem** 1997 Jan;16(1):19–26

Organization of the Saccharomyces cerevisiae actin gene UAS: functional significance of reiterated REB1 binding sites and AT–rich elements. McLean M, et al. **Mol Microbiol** 1995 Nov;18(4):605–14

BINDING SITES, ANTIBODY

see related

ANTIBODY AFFINITY

Comparison of the immunobead binding test (IBT) and immunospheres (IS) assay for detecting serum antisperm antibodies. Centola GM, et al. **Am J Reprod Immunol** 1997 Apr;37(4):300–3

Inhibition of preprotein translocation and reversion of the membrane inserted state of SecA by a carboxyl terminus binding mAb. den Blaauwen T, et al. **Biochemistry** 1997 Jul 29;36(30):9159–68

Binding of ligand or monoclonal antibody 4B1 induces discrete structural changes in the lactose permease of Escherichia coli. Frillingos S, et al. **Biochemistry** 1997 May 27;36(21):6408–14

Development of a streptavidin–anti–carcinoembryonic antigen antibody, radiolabeled biotin pretargeting method for radioimmunotherapy of colorectal cancer. Reagent development. Karacay H, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):585–94

Biotin reagents for antibody pretargeting. Synthesis, radioiodination, and in vitro evaluation of water soluble, biotinidase resistant biotin derivatives. Wilbur DS, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):572–84

Use of conformationally constrained peptides for a topographical analysis of the combing site of a monoclonal anti–substance P antibody. Déry O, et al. **Biopolymers** 1996 Jul;39(1):67–74

Antibodies binding to anionic phospholipids but not to oxidized low–density lipoprotein are associated with thrombosis in patients with systemic lupus erythematosus. Aho K, et al. **Clin Exp Rheumatol** 1996 Sep–Oct; 14(5):499–506

Low affinity, antibody binding of an Escherichia coli–derived component. Ohlin M, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):161–8

Two widely used anti–DR alpha monoclonal antibodies bind to an intracellular C–terminal epitope. Grüneberg U, et al. **Hum Immunol** 1997 Mar;53(1):34–8

RT–PCR cloning and characterization of mouse immunoglobulin variable domains with high affinity for HLA–DR antigens. Eswarakumar VP, et al. **Immunogenetics** 1997;46(3):249–50

Cloning and IgE binding of a recombinant allergen from the mite Blomia tropicalis, homologous with fatty acid–binding proteins. Caraballo L, et al. **Int Arch Allergy Immunol** 1997 Apr;112(4):341–7

Sequence changes at the V–D junction of the VH1 heavy chain of anti–phosphocholine antibodies alter binding to and protection against Streptococcus pneumoniae. Guo WX, et al. **Int Immunol** 1997 May;9(5):665–77

Cloning and expression of complementary DNA coding for an allergen with common antibody–binding specificities with three allergens of the house dust mite Blomia tropicalis. Caraballo L, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):573–9

Mapping of IgE–binding epitopes on the recombinant major group I allergen of velvet grass pollen, rHol l 1. Schramm G, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):781–7

Human anti–Ro autoantibodies bind multiple conformational epitopes of 60–kD Ro autoantigen. Huang SC, et al. **J Clin Immunol** 1997 May;17(3):212–9

Localization of a single binding site for immunoglobulin light chains on human Tamm–Horsfall glycoprotein. Huang ZQ, et al. **J Clin Invest** 1997 Feb 15;99(4):732–6

Comparative docking studies on ligand binding to the multispecific antibodies IgE–La2 and IgE–Lb4. Sotriffer CA, et al. **J Comput Aided Mol Des** 1996 Aug;10(4):305–20

A self–organizing cognitive network of antibody repertoire development. Joshi RR. **J Comput Biol** 1996 Winter; 3(4):529–45

Staphylococcal protein A simultaneously interacts with framework region 1, complementarity–determining region 2, and framework region 3 on human VH3–encoded Igs. Potter KN, et al. **J Immunol** 1996 Oct 1;157(7):2982–8

An endogenous sialoprotein and a bacterial B cell superantigen compete in their VH family–specific binding interactions with human Igs. Silverman GJ, et al. **J Immunol** 1996 Nov 15;157(10):4496–502

Reliable cloning of functional antibody variable domains from hybridomas and spleen cell repertoires employing a reengineered phage display system. Krebber A, et al. **J Immunol Methods** 1997 Feb 14;201(1):35–55

Binding parameters of antibodies reacting with multivalent antigens: functional affinity or pseudo–affinity [letter] Mattes MJ. **J Immunol Methods** 1997 Mar 10;202(1):97–101 (27 ref.)

Antibody–antigen interactions: contact analysis and binding site topography. MacCallum RM, et al. **J Mol Biol** 1996 Oct 11;262(5):732–45

Site–directed mutagenesis of active site contact residues in a hydrolytic abzyme: evidence for an essential histidine involved in transition state stabilization. Miyashita H, et al. **J Mol Biol** 1997 Apr 18;267(5):1247–57

Bivalent binding of a neutralising antibody to a calicivirus involves the torsional flexibility of the antibody hinge. Thouvenin E, et al. **J Mol Biol** 1997 Jul 11;270(2):238–46

Characterization by serial deletion competition ELISAs of HIV–1 V3 loop epitopes recognized by monoclonal antibodies. Seligman SJ, et al. **Mol Immunol** 1996 Jun; 33(9):737–45

In vitro scanning saturation mutagenesis of an antibody binding pocket. Burks EA, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):412–7

The antigen–binding domain of a human IgG–anti–F(ab')2 autoantibody. Welschof M, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1902–7

Complementarity determining region residues aspartic acid at H55, serine at H95 and tyrosines at H97 and L96 play important roles in the B72.3 antibody–TAG72 antigen interaction. Xiang J, et al. **Protein Eng** 1996 Jun;9(6):539–43

Polyreactive binding of antibodies generated by polyclonal B cell activation. I. Polyreactivity could be caused by differential glycosylation of immunoglobulins. Fernández C, et al. **Scand J Immunol** 1997 Mar;45(3):231–9

Evolutionary chemistry: getting there from here [comment] Joyce GF. **Science** 1997 Jun 13;276(5319):1658–9. Comment on: Science 1997 Jun 13;276(5319):1665–9.

Structural insights into the evolution of an antibody combining site [see comments] Wedemayer GJ, et al. **Science** 1997 Jun 13;276(5319):1665–9. Comment in: Science 1997 Jun 13;276(5319):1658–9.

Separation of equine IgG subclasses (IgGa, IgGb and IgG(T)) using their differential binding characteristics for staphylococcal protein A and streptococcal protein G. Sheoran AS, et al. **Vet Immunol Immunopathol** 1996 Dec; 55(1–3):33–43

DRUG EFFECTS

Epitope mapping of a monoclonal antibody to human glutathione transferase P1–1 the binding of which is inhibited by glutathione. Takahata T, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):531–6

Human IgG monoclonal antibodies that modulate the binding of specific IgE to birch pollen Bet v 1. Visco V, et al. **J Immunol** 1996 Jul 15;157(2):956–62

A platelet activation–specific monoclonal antibody that recognizes a receptor–induced binding site on canine fibrinogen. Boudreaux MK, et al. **Vet Pathol** 1996 Jul; 33(4):419–27

GENETICS

Cloning, sequencing, expression and characterization of three anti–estradiol–17beta Fab fragments. Pajunen M, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):192–202

Somatic mutation in VH complementarity–determining region 2 and framework region 2: differential effects on antigen binding and Ig secretion. Wiens GD, et al. **J Immunol** 1997 Aug 1;159(3):1293–302

Study of antibody–antigen interaction through site–directed mutagenesis of the VH region of a hybrid phage–antibody fragment. Li Y, et al. **Protein Eng** 1996 Dec;9(12):1211–7

IMMUNOLOGY

Binding affinities of allergens from pollen, mites, and house dust for specific IgG subclass antibodies. Boluda L, et al. **Allergy** 1996 Oct;51(10):706–11

Further characterization of IgE–binding antigens in horse dander, with particular emphasis on glycoprotein allergens. Johnsen, et al. **Allergy** 1996 Sep;51(9):608–13

Comparative assessment of phospholipid–binding antibodies indicates limited overlapping. de Maistre E, et al. **J Clin Lab Anal** 1996;10(1):6–12

Selection of binders from phage displayed antibody libraries using the BIAcore biosensor. Malmborg AC, et al. **J Immunol Methods** 1996 Oct 30;198(1):51–7

A platelet activation–specific monoclonal antibody that recognizes a receptor–induced binding site on canine fibrinogen. Boudreaux MK, et al. **Vet Pathol** 1996 Jul; 33(4):419–27

PHYSIOLOGY

Platelet activation and restenosis after coronary stenting: flow cytometric detection of wound–induced platelet activation. Markovitz JH, et al. **Coron Artery Dis** 1996 Sep;7(9):657–65

Similar binding properties for a neutralizing anti–tetanus toxoid human monoclonal antibody and its bacterially expressed Fab. Lafaye P, et al. **Res Immunol** 1996 Jan; 147(1):61

BINET TEST see **STANFORD–BINET TEST**

BINOCULAR DISPARITY see **VISION DISPARITY**

BINOCULAR VISION see **VISION, BINOCULAR**

BINOMIAL DISTRIBUTION

Order–restricted tests for stratified comparisons of binomial proportions. Agresti A, et al. **Biometrics** 1996 Sep; 52(3):1103–11

Parameter estimation from incomplete data in binomial regression when the missing data mechanism is nonignorable. Ibrahim JG, et al. **Biometrics** 1996 Sep; 52(3):1071–8

Modeling conception as an aggregated Bernoulli outcome with latent variables via the EM algorithm. Zhou H, et al. **Biometrics** 1996 Sep;52(3):945–54

Bayesian analysis for a single 2 x 2 table. Hashemi L, et al. **Stat Med** 1997 Jun 30;16(12):1311–28

A formula for the probability of discordant classification in method comparison studies. Matthews JN. **Stat Med** 1997 Mar 30;16(6):705–10

A non–iterative accurate asymptotic confidence interval for the difference between two proportions. Wallenstein S. **Stat Med** 1997 Jun 30;16(12):1329–36

Limitations to the robustness of binormal ROC curves: effects of model misspecification and location of decision thresholds on bias, precision, size and power. Walsh SJ. **Stat Med** 1997 Mar 30;16(6):669–79

BIOARTIFICIAL LIVER see **LIVER, ARTIFICIAL**

BIOASSAY see **BIOLOGICAL ASSAY**

BIOAVAILABILITY see **BIOLOGICAL AVAILABILITY**

BIO-BREEDING INBRED RATS see **RATS, INBRED BB**

BIOCHEMICAL MARKERS see **BIOLOGICAL MARKERS**

BIOCHEMISTRY

Applications of impedance spectroscopy in biochemistry and biophysics. Janshoff A, et al. **Acta Biochim Pol** 1996; 43(2):339–48 (19 ref.)

Tryptophan, oxygenase, and sleep. Hayaishi O. **Adv Exp Med Biol** 1996;398:3–11, vi

IUPAC–IUBMB Joint Commission on Biochemical Nomenclature (JCBN) and Nomenclature Committee of IUBMB (NC–IUBMB). Liebecq C. **Arch Biochem Biophys** 1997 Aug 1;344(1):242–52

Fishing in the stream of diabetes: from measuring insulin to the control of fetal organogenesis. Hales CN, et al. **Biochem Soc Trans** 1996 May;24(2):341–50

121st, 127th, 128th, 130th conference of the gesellschaft für biochemie und molekularbiologie. 1995–1996. Abstracts. **Biol Chem** 1996 Sep;377 Suppl:S17–217

Klaus Schwarz Medal recipient for 1995. Schrauzer GN. **Biol Trace Elem Res** 1996 Feb;51(2):i–ii

Physical and biochemical changes of thermal mud after maturation. Galzigna L, et al. **Biomed Pharmacother** 1996; 50(6–7):306–8

Calculation of biochemical net reactions and pathways by using matrix operations. Alberty RA. **Biophys J** 1996 Jul; 71(1):507–15

Origin of biochemical organization. Lyubarev AE, et al. **Biosystems** 1997;42(2–3):103–10

The pattern of clinical advice sought by general practitioners from a medical consultant in clinical biochemistry. Bhatnagar D. **Br J Gen Pract** 1997 Apr;47(417):229–30

Special issue: Professor Luis F. Leloir, 25th anniversary of his Nobel Laureate. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):i–xii, 589–804

Cumulative author and subject index, Vols. 151–249. **Clin Chim Acta** 1996 Jun 28;250(1–2):3–265

Bibliography of Comparative Biochemistry and Physiology A generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol A Physiol** 1996 Nov;115(3):I–III

Bibliography of Comparative Biochemistry and Physiology A generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol A Physiol** 1996 Dec;115(4):I–XI

Bibliography of Comparative Biochemistry and Physiology A generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol A Physiol** 1996 Jul;114(3):I–IV

Bibliography of Comparative Biochemistry and Physiology A generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol A Physiol** 1996 Aug;114(4):I–IV

Bibliography for Comparative Biochemistry and Physiology B generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr; 113(4):I–X

Bibliography for comparative biochemistry and physiology B generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Aug; 114(4):I–IV

Bibliography for Comparative Biochemistry and Physiology B. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):I–III

Bibliography for Comparative Biochemistry and Physiology B generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):I–V

Bibliography of comparative biochemistry and physiology C generated from the current awareness in biological sciences database. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):I–VII

Bibliography of comparative biochemistry and physiology C generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jan;116(1):I–VII

Bibliography of Comparative Biochemistry and Physiology C generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):I–IX

IUPAC–IUBMB Joint Commission on Biochemical Nomenclature (JCBN). Recommendations for nomenclature and tables in biochemical thermodynamics. Recommendations 1994. Alberty RA. **Eur J Biochem** 1996 Aug 15;240(1):1–14

IUPAC–IUBMB Joint Commission on Biochemical Nomenclature (JCBN) and Nomenclature Committee of IUBMB (NC–IUBMB). Newsletter 1996. Liébecq C. **Eur J Biochem** 1997 Jul 15;247(2):733–9

17th International Congress of Biochemistry and Molecular Biology in conjunction with 1997 annual meeting of the American Society for Biochemistry and Molecular Biology. San Francisco, California, August 24–29, 1997. Abstracts. **FASEB J** 1997 Jul 31;11(9):A769–1458

6th International Congress on Cell Biology and 36th American Society for Cell Biology annual meeting, San Francisco, CA. Kuhns B. **Glycoconj J** 1997 Jun;14(4):545–7

Joint Congress of the British Society for Immunology and the Biochemical Society. Harrogate, United Kingdom, 10–13 December 1996. Abstracts. **Immunology** 1996 Nov; 89 Suppl 1:1–101

Italian Society of Biochemistry meetings 1995. Abstracts. **Ital J Biochem** 1996 Jun;45(2):71–128

Meeting of Piemonte–Valle d'Aosta–Lombardia–Liguria Group of the Italian Biochemical Society, June 2, 1995 and VIII Meeting of the Sardinian Group of the Italian Biochemical Society, June 15–16, 1995. Abstracts. **Ital J Biochem** 1995 Nov–Dec;44(6):351A–450A

Meeting of the Nucleotides and Nucleic Acids Group of the Italian Biochemical Society. Pisa, May 23–24, 1996. Abstracts. **Ital J Biochem** 1996 Sep;45(3):143–88

Additivity principles in biochemistry. Dill KA. **J Biol Chem** 1997 Jan 10;272(2):701–4 (43 ref.)

Lessons for the laboratory from a general practitioner survey. Boyde AM, et al. **J Clin Pathol** 1997 Apr;50(4):283–7

The Edman Award 1996. Jörnvall H. **J Protein Chem** 1997 Jul;16(5):321

Entropy and charge in molecular evolution--the case of phosphate. Arrhenius G, et al. **J Theor Biol** 1997 Aug 21; 187(4):503–22

[The 70th Congress of the Japanese Biochemical Society. Kanazawa City, Japan. September 22–25, 1997. Abstracts] **Seikagaku** 1997 Jul;69(7):471–957 **(Jpn)**

[The 69th congress of the Japanese Biochemistry Society. August 26–30, 1996. Sapporo City, Japan. Abstracts] **Seikagaku** 1996 Jul;68(7):515–1378 **(Jpn)**

[Problems of noninvasive diagnosis in a clinical laboratory: materials and methods] Men'shikov VV, et al. **Klin Lab Diagn** 1996 Jul–Aug;(4):33–8 **(Rus)**

EDUCATION

Teaching biochemistry: lectures and alternatives. Carroll M. **Biochem Soc Trans** 1997 Feb;25(1):283–7

Problem-based biochemistry seminars complement, but do not replace, lectures. Jervis L, et al. **Biochem Soc Trans** 1997 Feb;25(1):1S

Problem-based biochemistry practicals for students of environmental and marine biology. Jervis L, et al. **Biochem Soc Trans** 1996 Aug;24(3):403S

ENZEDUC 1.0: a user-friendly software package for computation of hyperbolic enzyme kinetic data in biochemical education. Marino A, et al. **Comput Methods Programs Biomed** 1996 Mar;49(2):131–5

HISTORY

From chemistry to biochemistry to catalysis to movement. Jencks WP. **Annu Rev Biochem** 1997;66:1–18

How to get paid for having fun. Koshland DE Jr. **Annu Rev Biochem** 1996;65:1–13

Whatever happened to the fun? An autobiographical investigation. Richards FM. **Annu Rev Biophys Biomol Struct** 1997;26:1–25

Successful theory development in biology: a consideration of the theories of oxidative phosphorylation proposed by Davies and Krebs, Williams and Mitchell. Prebble JN. **Biosci Rep** 1996 Jun;16(3):207–15

An outstanding man: Prof. Luis Federico Leloir 1906–1987. Krisman CR. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul; 42(5):i–iii

A dedicacy to Professor Luis Leloir. Nobel Price Winner 1970. Wegmann RJ. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):ix–xii

Eli K. Marshall, Jr. (1889–1966): from biochemistry and physiology to pharmacology and pharmacokinetics. Bickel MH. **Drug Metab Rev** 1996 Aug;28(3):311–44

The making of a biochemist. I: Frederick Gowland Hopkins' construction of dynamic biochemistry. Kamminga H, et al. **Med Hist** 1996 Jul;40(3):269–92

The making of a biochemist. II: The construction of Frederick Gowland Hopkins' reputation. Weatherall MW, et al. **Med Hist** 1996 Oct;40(4):415–36

Norman Pirie (1907–97) [news] Fowden L, et al. **Nature** 1997 Jun 5;387(6633):560

The hunt for mitochondrially synthesized proteins. Schatz G. **Protein Sci** 1997 Mar;6(3):728–34

How protein chemists learned about the hydrophobic factor. Tanford C. **Protein Sci** 1997 Jun;6(6):1358–66

A history of steroid chemistry: some contributions from European industry. Petrow V. **Steroids** 1996 Aug; 61(8):473–5

Frederick Gowland Hopkins and the unification of biochemistry. Kamminga H. **Trends Biochem Sci** 1997 May; 22(5):184–7

Centenary of the birth of modern biochemistry. Kornberg A. **Trends Biochem Sci** 1997 Aug;22(8):282–3

Outline of A. V. Palladin Institute work. Donchenko GV. **Ukr Biokhim Zh** 1996 Jul–Aug;68(4):3–16

[Historical aspects of early stages of studies on cell-free protein biosynthesis] Ogata K. **Tanpakushitsu Kakusan Koso** 1997 Apr;42(5):770–6 (6 ref.) **(Jpn)**

[Research of Academician O.V. Palladin and his school in the field of biochemistry and physiology of muscles] Chernikov IuT. **Ukr Biokhim Zh** 1996 Sep–Oct; 68(5):106–16 (Eng. Abstr.) **(Ukr)**

INSTRUMENTATION

A chemiluminescent flow sensing device for determination of choline and phospholipase D activity in biological samples. Rauch P, et al. **Anal Biochem** 1997 Feb 15; 245(2):133–40

The design of a ferrofluid magnetic pipette. Greivell NE, et al. **IEEE Trans Biomed Eng** 1997 Mar;44(3):129–35

Automated multiple peptide synthesis: improvements in obtaining quality peptides. Luu T, et al. **Int J Pept Protein Res** 1996 Jan–Feb;47(1–2):91–7

Automated chemical synthesis: from resins to instruments. Porco JA Jr, et al. **Mol Divers** 1997 Apr;2(4):197–206

Synthesis and purification in a single column on a high-throughput automated oligonucleotide production system. Andrus A, et al. **Nucleic Acids Symp Ser** 1995; (34):183–4

METHODS

Risk of Down syndrome and any clinically significant chromosome defect in pregnancies with abnormal triple-screen and normal targeted ultrasonographic results. Bahado-Singh RO, et al. **Am J Obstet Gynecol** 1996 Oct; 175(4 Pt 1):824–9

A luminescent europium complex for the sensitive detection of proteins and nucleic acids immobilized on membrane supports. Lim MJ, et al. **Anal Biochem** 1997 Feb 15; 245(2):184–95

Evidence-based clinical biochemistry. Moore RA. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):3–7

Enzyme standardization--the way forward? Moss DW. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):13–6

Molecular and biochemical approaches in the identification of heterozygotes for homocystinuria [published erratum appears in Atherosclerosis 1996 Sep 6;125(2):271] Tsai MY, et al. **Atherosclerosis** 1996 Apr 26;122(1):69–77

Determination of sugar specificity of jackfruit lectin by a simple sugar–lectin binding assay using microtiter plate. Wetprasit N, et al. **Biochem Mol Biol Int** 1997 Jun; 42(2):399–408

Switch on to separate: the development of electrophoretic methods of analysis. Andrews AT. **Biochem Soc Trans** 1997 Feb;25(1):243–8 (0 ref.)

Magentization transfer study of creatine kinase in myocardium. Potential clinical interest of in vivo enzymology. Joubert F, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):763–72 (68 ref.)

Analysis of novel apolipoprotein B mutations using a modified U937 cell line LDL binding assay. Meng QH, et al. **Clin Chim Acta** 1996 Dec 9;256(1):27–36

A software program based on robust linear regression methods for instrumental calibration in biochemical analysis. Mecozzi M. **Comput Methods Programs Biomed** 1997 May;53(1):27–32

Biochemical tests in diseases of the intestinal tract: their contributions to diagnosis, management, and understanding the pathophysiology of specific disease states. Abdelshaheed NN, et al. **Crit Rev Clin Lab Sci** 1997 Apr; 34(2):141–223 (357 ref.)

Bypassing the ribosome: peptide synthesis without translation. Murphy A, et al. **Essays Biochem** 1996;31:61–75 (29 ref.)

Practical approaches to low density lipoprotein oxidation: whys, wherefores and pitfalls. Rice-Evans C, et al. **Free Radic Res** 1996 Oct;25(4):285–311 (89 ref.)

An investigation of the antioxidant activity of black tea using enhanced chemiluminescence. Robinson EE, et al. **Free Radic Res** 1997 Mar;26(3):291–302

Carbohydrate-binding properties of the hemolytic lectin CEL-III from the holothuroidea Cucumaria echinata as analyzed using carbohydrate-coated microplate. Hatakeyama T, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):63–7

A new method for seed oil body purification and examination of oil body integrity following germination. Tzen JT, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):762–8

Method for quantifying expression of functionally active topoisomerase II in patients with leukaemia. Cattan AR, et al. **J Clin Pathol** 1996 Oct;49(10):848–52

Regulation analysis of energy metabolism. Brand MD. **J Exp Biol** 1997 Jan;200 (Pt 2):193–202 (48 ref.)

Special issue: Communications from the 11th International Conference on Methods in Protein Structure Analysis. **J Protein Chem** 1997 Jul;16(5):321–564

Immunoisolation and partial characterization of endothelial plasmalemmal vesicles (caveolae). Stan RV, et al. **Mol Biol Cell** 1997 Apr;8(4):595–605

Novel oxidatively removable protecting groups and linkers for solid-phase synthesis of oligosaccharides. Fukase K, et al. **Mol Divers** 1997 Apr;2(4):182–8

Automated chemical synthesis: from resins to instruments. Porco JA Jr, et al. **Mol Divers** 1997 Apr;2(4):197–206

A method for determining transmembrane protein structure. Jones PC, et al. **Mol Membr Biol** 1996 Jan–Mar;13(1):53–60

A new strategy for introducing photoactivatable 4-thiouridine ((4S)U) into specific positions in a long RNA molecule. Yu YT, et al. **RNA** 1997 Jul;3(7):807–10

An efficient method for the extraction of DNA from vertebrate tissues. Gemmell NJ, et al. **Trends Genet** 1996

BIOCHEMISTRY

Sep;12(9):338–9

[Change of calibration method for enzyme assay in clinical biochemistry using automatic analyzer—comparison of calibration methods using K factor and human standard serum] **Saitoh M**, et al. **Eisei Shikenjo Hokoku** 1996; (114):99–101 (Eng. Abstr.) **(Jpn)**

[Molecular imprinting: tailor made synthetic receptors capable of molecular recognition] Takeuchi T. **Tanpakushitsu Kakusan Koso** 1997 Jun;42(8):1320–6 (13 ref.) **(Jpn)**

[Chemical modification of proteins by polyethylene glycol] Uemura T, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep; 41(11):1607–13 (26 ref.) **(Jpn)**

[The resolution adopted by the participants of the Symposium "Place of biochemistry in the forwarding the current concept of tuberculosis pathogenesis" held at the Central Research Institute of Tuberculosis, Russian Academy of Medical Science, Moscow, on April 25, 1996] **Probl Tuberk** 1997;(3):64 **(Rus)**

ORGANIZATION & ADMINISTRATION

Towards an effective and successful clinical liaison service in chemical pathology. Olukoga AO. **J Clin Pathol** 1997 Jul;50(7):538–40

On cabbages and kings: the IUBMB—problems and prospects [editorial] Bradshaw RA. **Trends Biochem Sci** 1997 Aug; 22(8):281–2

STANDARDS

Enzyme standardization—the way forward? Moss DW. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):13–6

TRENDS

The future. Wagner HN Jr. **Semin Nucl Med** 1996 Jul; 26(3):194–200

Reductionism for biochemists: how to survive the protein jungle. Bray D. **Trends Biochem Sci** 1997 Sep;22(9):325–6

[Recalling forgotten information? Biochemistry and pathobiochemistry—principles of rational clinical decision making] **Internist (Berl)** 1997 Jan;38(1):92–4 **(Ger)**

[Clinical biochemistry in the Czech Republic today] Men'shikov VV. **Klin Lab Diagn** 1996 Nov–Dec;(6):44–5 **(Rus)**

BIOCOMPATIBLE MATERIALS

The influence of long-lasting implantation on the function of phagocytes towards staphylococci. Różalska B, et al. **Acta Microbiol Pol** 1995;44(3–4):243–54

Long-term results of glass ionomer cement, Ionocem, in the middle ear of the rat. Kupperman D, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):27–30

Impaired leucocyte rolling, adhesion and transendothelial migration following cuprophane haemodialysis. Thorlacius H, et al. **Acta Physiol Scand** 1997 Apr;159(4):277–83

The role of platelet-activating factor in the biocompatibility of hemodialysis membranes. Tetta C, et al. **Adv Exp Med Biol** 1996;416:243–8 (40 ref.)

The use of biocompatible dialysis membranes in acute renal failure. Himmelfarb J, et al. **Adv Ren Replace Ther** 1997 Apr;4(2 Suppl 1):72–80 (86 ref.)

Biocompatibility of peritoneal dialysis solutions and host defense. Topley N. **Adv Ren Replace Ther** 1996 Oct; 3(4):309–11 (8 ref.)

Relationship between biocompatibility and neutrophil function in hemodialysis patients. Vanholder R. **Adv Ren Replace Ther** 1996 Oct;3(4):312–4 (19 ref.)

Hydroxyapatite cement to repair skull base defects: radiologic appearance. Weissman JL, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1569–74

Adhesives in otology and neurotology. Selesnick S, et al. **Am J Otolaryngol** 1997 Mar–Apr;18(2):81–9 (59 ref.)

Thrombin promotes endothelial cell alignment in Matrigel in vitro and angiogenesis in vivo. Haralabopoulos GC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C239–45

Amperometric immunosensors based on rigid conducting immunocomposites. Santandreu M, et al. **Anal Chem** 1997 Jun 1;69(11):2080–5

In vitro cell behavior of osteoblasts on Pyrost bone substitute. Tsuang YH, et al. **Anat Rec** 1997 Feb;247(2):164–9

Extracorporeal circulation, hemocompatibility, and biomaterials. Janvier G, et al. **Ann Thorac Surg** 1996 Dec; 62(6):1926–34 (56 ref.)

Centrifugal pump and heparin coating improves cardiopulmonary bypass biocompatibility. Moen O, et al. **Ann Thorac Surg** 1996 Oct;62(4):1134–40

Improved growth with bioabsorbable sutures in both high- and low-pressure zones. von Segesser LK, et al. **Ann Thorac Surg** 1996 Oct;62(4):1045–9; discussion 1049–50

Phosphorylcholine coating of ePTFE grafts reduces neointimal hyperplasia in canine model. Chen C, et al. **Ann Vasc Surg** 1997 Jan;11(1):74–9

Using self-assembled monolayers to understand the interactions of man-made surfaces with proteins and cells. Mrksich M, et al. **Annu Rev Biophys Biomol Struct** 1996; 25:55–78 (87 ref.)

Acute renal failure: role of dialysis membrane biocompatibility. Pascual M, et al. **Annu Rev Med** 1997; 48:467–76 (39 ref.)

Clinicopathological correlation of technetium bone scan in vascularization of hydroxyapatite implants. A primate model. Pacheco EM, et al. **Arch Ophthalmol** 1997 Sep; 115(9):1173–7

Comparison of costs in ankle fractures treated with absorbable or metallic fixation devices. Juutilainen T, et al. **Arch Orthop Trauma Surg** 1997;116(4):204–8

Tibial condylar fractures fixed with totally absorbable, self-reinforced polyglycolide screws. A preliminary report. Kankare J. **Arch Orthop Trauma Surg** 1997;116(3):133–6

In vivo properties of an intramedullary hydroxyapatite plug to improve femoral stem fixation. Maruyama M. **Arch Orthop Trauma Surg** 1997;116(6–7):396–9

Shear and tensile strength of hydroxyapatite coating under loading conditions. An experimental study in dogs. Müller RT, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):334–7

Totally absorbable fixation in the treatment of fractures of the distal femoral epiphyses. A prospective clinical study. Partio EK, et al. **Arch Orthop Trauma Surg** 1997; 116(4):213–6

Porous high-density polyethylene implants in auricular reconstruction. Williams JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):578–83

Internal fixation strength of suture anchors—update 1997. Barber FA, et al. **Arthroscopy** 1997 Jun;13(3):355–62

Metal and biodegradable interference screws: comparison of failure strength. Johnson LL, et al. **Arthroscopy** 1996 Aug; 12(4):452–6

Clinical degradation and biocompatibility of different bioabsorbable interference screws: a report of six cases. Stähelin AC, et al. **Arthroscopy** 1997 Apr;13(2):238–44

Strength of the fixation of patellar tendon bone grafts using a totally absorbable self-reinforced poly-L-lactide expansion plug and screw. An experimental study in a bovine cadaver. Tuompo P, et al. **Arthroscopy** 1996 Aug; 12(4):422–7

Controlled release of endothelial cell growth factor from chitosan-albumin microspheres for localized angiogenesis: in vitro and in vivo studies. Elçin YM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May; 24(3):257–71

A new low density lipoprotein (LDL) adsorbent. Yihua YU, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep;25(5):445–50

Changes in polyurethane calcification due to antibiotics. Chandy T, et al. **Artif Organs** 1996 Jul;20(7):752–60

Polyurethane catheters for long-term hemodialysis access. Hirsch DJ, et al. **Artif Organs** 1997 May;21(5):349–54

New antiinfectious biomaterials. Ciprofloxacin containing polyurethanes as potential drug delivery systems to prevent foreign-body infections. Schierholz JM, et al. **Arzneimittelforschung** 1997 Jan;47(1):70–4

NIH workshop report. Biomaterials and medical implant science: present and future perspectives. Eisenberger P, et al. **ASAIO J** 1997 Jan–Feb;43(1):95–103

Biomaterials availability: the public policy challenge. Foote SB. **ASAIO J** 1997 May–Jun;43(3):261–2

Development of a thermal cross-linking heparinization method and its application to small caliber vascular prostheses. Iwai Y. **ASAIO J** 1996 Sep–Oct;42(5):M693–7

Gas transfer and in vitro and in vivo blood compatibility of a fluorinated polyimide membrane with an ultrathin skin layer. Kawakami H, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M871–6

Thermal cross-linking for biologically degradable materials. Preliminary report. Ma XH, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M866–71

Heparin free hemodialysis using heparin coated hemophan. Mujais SK, et al. **ASAIO J** 1996 Sep–Oct;42(5):M538–41

High affinity polyethylene oxide for improved biocompatibility. Nelson KD, et al. **ASAIO J** 1996 Sep–Oct;42(5):M884–9

Platelet adhesion and activation on polyethylene glycol modified polyurethane surfaces. Measurement of cytoplasmic calcium. Park KD, et al. **ASAIO J** 1996 Sep–Oct;42(5):M876–81

Biomaterial development in Russia and the independent states. Sevastianov VI. **ASAIO J** 1996 Jan–Feb;42(1):4–7 (25 ref.)

Improved bioresorbable microporous intravascular stents for gene therapy. Ye YW, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M823–7

Utilization of nickel-titanium shape memory alloy for stapes prosthesis. Kasano F, et al. **Auris Nasus Larynx** 1997 Apr; 24(2):137–42

An improved mouthguard material. Westerman B, et al. **Aust Dent J** 1997 Jun;42(3):189–91

Biomembranes, ion channels and new biomaterials. Chapman D, et al. **Biochem Soc Trans** 1996 May;24(2):329–40

Photo-immobilization of dipyridamole (Persantin) at the surface of polyurethane biomaterials: reduction of in-vitro thrombogenicity. Aldenhoff YB, et al. **Biomaterials** 1997 Jan;18(2):167–72

Ibuprofen release from hydrophilic ceramic-polymer composites. Arcos D, et al. **Biomaterials** 1997 Sep; 18(18):1235–42

Fabrication of microcapsules using poly(ethylene adipate) and a blend of poly(ethylene adipate) with poly(hydroxybutyrate-hydroxyvaierate): incorporation and release of bovine serum albumin. Atkins TW. **Biomaterials** 1997 Jan;18(2):173–80

Physical property analysis and bacterial adhesion on a series of phosphonated polyurethanes. Baumgartner JN, et al. **Biomaterials** 1997 Jun;18(12):831–7

Experimental assay of a Dual Mesh polytetrafluoroethylene prosthesis (non-porous on one side) in the repair of abdominal wall defects. Bellón JM, et al. **Biomaterials** 1996 Dec;17(24):2367–72

Improvement of the tissue integration of a new modified polytetrafluoroethylene prosthesis: Mycro Mesh. Bellón JM, et al. **Biomaterials** 1996 Jul;17(13):1265–71

Interaction of macrophages with fibrous materials in vitro. Bernatchez SF, et al. **Biomaterials** 1996 Nov;17(21):2077–86

Experimental study of mechanical properties of composite carbon screws. Błażewicz S, et al. **Biomaterials** 1997 Mar; 18(5):437–9

Cytocompatibility of Ti-6Al-4V and Ti-5Al-2.5Fe alloys according to three surface treatments, using human fibroblasts and osteoblasts. Bordji K, et al. **Biomaterials** 1996 May;17(9):929–40

Surface characterization of poly(alpha-hydroxy acid) microspheres prepared by a solvent evaporation/extraction process. Boury F, et al. **Biomaterials** 1997 Jan;18(2):125–36

Histological evaluation of the biocompatibility of a glass-ionomer cement in rat alveolus. Brentegani LG, et al. **Biomaterials** 1997 Jan;18(2):137–40

Histological and biomechanical analysis of bone and interface reactions around hydroxyapatite-coated intramedullary implants of different stiffness: a pilot study on the goat. Buma P, et al. **Biomaterials** 1997 Sep;18(18):1251–60

Long-term in vivo performance and biocompatibility of poly(vinyl alcohol) hydrogel macrocapsules for hybrid-type artificial pancreas. Burczak K, et al. **Biomaterials** 1996 Dec;17(24):2351–6

Expression of adhesion molecules on endothelial cells after contact with knitted Dacron. Cenni E, et al. **Biomaterials** 1997 Mar;18(6):489–94

Controlled protein delivery from biodegradable tyrosine-containing poly(anhydride-co-imide) microspheres. Chiba M, et al. **Biomaterials** 1997 Jul; 18(13):893–901

New bioresorbable pin for the reduction of small bony fragments: design, mechanical properties and in vitro degradation. Claes LE, et al. **Biomaterials** 1996 Aug; 17(16):1621–6

Effect of the substitution of Y2O3 for CaO on the bioactivity of 2.5CaO.2SiO2 glass. Costantini A, et al. **Biomaterials** 1997 Mar;18(6):453–8

Toward development of an implantable tissue engineered liver. Davis MW, et al. **Biomaterials** 1996 Feb;17(3):365–72 (74 ref.)

Meniscal tissue regeneration in porous 50/50 copoly(L-lactide/epsilon-caprolactone) implants. de Groot JH, et al. **Biomaterials** 1997 Apr;18(8):613–22

Transport characterization of membranes for immunoisolation. Dionne KE, et al. **Biomaterials** 1996 Feb; 17(3):257–66

Influence of processing conditions on the release of sodium fluoride from oligomeric L-lactic acid matrices. Dittrich M, et al. **Biomaterials** 1996 Aug;17(16):1591–7

Recent advances in tissue synthesis in vivo by use of collagen-glycosaminoglycan copolymers. Ellis DL, et al. **Biomaterials** 1996 Feb;17(3):291–9 (70 ref.)

Polymerization shrinkage of microfilled composites determined by laser beam scanning. Fano V, et al. **Biomaterials** 1997 Mar;18(6):467–70

In vitro degradation of pH-sensitive hydrogels containing aromatic azo bonds. Ghandehari H, et al. **Biomaterials** 1997 Jun;18(12):861–72

Experimental evaluation of a resorbable intramedullary plug for cemented total hip replacement. Giardino R, et al. **Biomaterials** 1997 Jul;18(13):907–13

Structural and electrochemical examinations of PACVD TiO2 films in Ringer solution. Głuszek J, et al. **Biomaterials** 1997 Jun;18(11):789–94

5-FU loaded pHEMA drainage implants for glaucoma-filtering surgery: device design and in vitro release kinetics. Gökce M, et al. **Biomaterials** 1996 May; 17(9):941–9

Three-dimensional extracellular matrix textured biomaterials. Goodman SL, et al. **Biomaterials** 1996 Nov;17(21):2087–95

Biointeractive polymers and tissue engineered blood vessels. Greisler HP, et al. **Biomaterials** 1996 Feb;17(3):329–36 (15 ref.)

Monocyte activation on titanium-sputtered polystyrene surfaces in vitro: the effect of culture conditions on interleukin-1 release. Gretzer C, et al. **Biomaterials** 1996 May;17(9):851–8

Mechanical model for critical strain in mineralizing biological tissues: application to bone formation in biomaterials. Harrigan TP, et al. **Biomaterials** 1997 Jun;18(12):877–83

Polymethylmethacrylate composites: disturbed bone formation at the surface of bioactive glass and hydroxyapatite. Heikkilä JT, et al. **Biomaterials** 1996 Sep; 17(18):1755–60

Effects of mechanical testing device variables on polymer composite femoral stem strains. Heiner AD, et al. **Biomaterials** 1996 Dec;17(23):2211–7

Role of physiological conditions in the oropharynx on the adherence of respiratory bacterial isolates to endotracheal tube poly(vinyl chloride). Jones DS, et al. **Biomaterials** 1997 Mar;18(6):503–10

In-vitro corrosion and wear of titanium alloys in the biological environment. Khan MA, et al. **Biomaterials** 1996 Nov;17(22):2117–26

Methods for the treatment of collagenous tissues for

bioprostheses. Khor E. **Biomaterials** 1997 Jan;18(2):95–105 (110 ref.)

Hydrogels prepared by electron irradiation of poly(ethylene oxide) in water solution: unexpected dependence of cross-link density and protein diffusion coefficients on initial PEO molecular weight. Kofinas P, et al. **Biomaterials** 1996 Aug;17(15):1547–50

Studies on radio-opaque polymeric biomaterials with potential applications to endovascular prostheses. Kruft MA, et al. **Biomaterials** 1996 Sep;17(18):1803–12

Plasma-induced grafted polymerization of acrylic acid and subsequent grafting of collagen onto polymer film as biomaterials. Lee SD, et al. **Biomaterials** 1996 Aug; 17(16):1599–608

New preparation and microstructure of the EndoPatch elastin-collagen containing glycosaminoglycans. Lefebvre F, et al. **Biomaterials** 1996 Sep;17(18):1813–8

Sintering of partially-stabilized zirconia and partially-stabilized zirconia-hydroxyapatite composites by hot isostatic pressing and pressureless sintering. Li J, et al. **Biomaterials** 1996 Sep;17(18):1787–90

Synthesis and blood compatibility evaluation of segmented polyurethanes based on cholesterol and phosphatidylcholine analogous moieties. Li YJ, et al. **Biomaterials** 1996 Nov;17(22):2179–89

Time-related deviations of fibronectin and type I, II and III collagen on the interface between a hydroxyapatite disc and the rim of a calvarial trephine defect in rabbits. Lindholm TC, et al. **Biomaterials** 1996 Aug;17(15):1515–20

Hybrid biomaterials based on the interaction of polyurethane oligomers with porcine pericardium. Loke WK, et al. **Biomaterials** 1996 Nov;17(22):2163–72

Characterization of the formation of interfacially photopolymerized thin hydrogels in contact with arterial tissue. Lyman MD, et al. **Biomaterials** 1996 Feb; 17(3):359–64

Antioxidant N-acetyl-cysteine increasing cell adhesion capability could facilitate the biocompatibility processes. Malorni W, et al. **Biomaterials** 1996 May;17(9):921–8

Covalent bonding of heparin to a vinyl copolymer for biomedical applications. Marconi W, et al. **Biomaterials** 1997 Jun;18(12):885–90

Selecting valid in vitro biocompatibility tests that predict the in vivo healing response of synthetic vascular prostheses. Marois Y, et al. **Biomaterials** 1996 Oct; 17(19):1835–42

Vascugraft microporous polyesterurethane arterial prosthesis as a thoraco-abdominal bypass in dogs. Marois Y, et al. **Biomaterials** 1996 Jul;17(13):1289–300

Release of residual methyl methacrylate into water from glass fibre-poly(methyl methacrylate) composite used in dentures. Miettinen VM, et al. **Biomaterials** 1997 Jan; 18(2):181–5

Three-dimensional composite of demineralized bone powder and collagen for in vitro analysis of chondroinduction of human dermal fibroblasts. Mizuno S, et al. **Biomaterials** 1996 Sep;17(18):1819–25

Biomaterial supports for colonic wall defect healing. An experimental study in the rat. Mutter D, et al. **Biomaterials** 1996 Jul;17(14):1411–5

Differences of bone bonding ability and degradation behaviour in vivo between amorphous calcium phosphate and highly crystalline hydroxyapatite coating. Nagano M, et al. **Biomaterials** 1996 Sep;17(18):1771–7

Human monocytes stimulation by particles of hydroxyapatite, silicon carbide and diamond: in vitro studies of new prosthesis coatings. Nordsletten L, et al. **Biomaterials** 1996 Aug;17(15):1521–7

Time course of membrane microarchitecture-driven neovascularization. Padera RF, et al. **Biomaterials** 1996 Feb;17(3):277–84

Wound healing phenomena in titanium fibre mesh: the influence of the length of implantation. Paquay YC, et al. **Biomaterials** 1997 Jan;18(2):161–6

Effect of composition on the gelation of tissue conditioners. Parker S, et al. **Biomaterials** 1996 Sep;17(18):1827–32

Tribological evaluation of oxidized zirconium using an articular cartilage counterface: a novel material for potential use in hemiarthroplasty. Patel AM, et al. **Biomaterials** 1997 Mar;18(5):441–7

Degradation behaviour of block copolymers containing poly(lactic-glycolic acid) and poly(ethylene glycol) segments. Penco M, et al. **Biomaterials** 1996 Aug; 17(16):1583–90

Hydrogels as mucoadhesive and bioadhesive materials: a review. Peppas NA, et al. **Biomaterials** 1996 Aug; 17(16):1553–61 (109 ref.)

Microscopical observations of the osseous responses in early loaded human titanium implants: a report of two cases. Piattelli A, et al. **Biomaterials** 1996 Jul;17(13):1333–7

Clinical and histological results in alveolar ridge enlargement using coralline calcium carbonate. Piattelli A, et al. **Biomaterials** 1997 Apr;18(8):623–7

Clinical and histologic aspects of biphasic calcium phosphate ceramic (BCP) used in connection with implant placement. Piattelli A, et al. **Biomaterials** 1996 Sep;17(18):1767–70

High-precision, cost-effective cutting system for producing thin sections of oral tissues containing dental implants. Piattelli A, et al. **Biomaterials** 1997 Apr;18(7):577–9

Morphological features of bone healing under the effect of collagen-graft-glycosaminoglycan copolymer supplemented with the tripeptide Gly-His-Lys. Pohunková H, et al. **Biomaterials** 1996 Aug;17(16):1567–74

Composite titanium dental implant fabricated by electro-discharge compaction. Qiu J, et al. **Biomaterials** 1997 Jan;18(2):153–60

In situ analysis of the degree of polymerization of bone cement by using FT-Raman spectroscopy. Rehman I, et al. **Biomaterials** 1996 Aug;17(16):1615–9

Colonization of a calcium phosphate/elastin-solubilized peptide-collagen composite material by human osteoblasts. Rovira A, et al. **Biomaterials** 1996 Aug;17(15):1535–40

Application of benzyl hyaluronate membranes as potential wound dressings: evaluation of water vapour and gas permeabilities. Ruiz-Cardona L, et al. **Biomaterials** 1996 Aug;17(16):1639–43

Synthesis and characterization of a new interpenetrated poly(2-hydroxyethylmethacrylate)-gelatin composite polymer. Santin M, et al. **Biomaterials** 1996 Aug; 17(15):1459–67

Adsorption of alpha-1-microglobulin from biological fluids onto polymer surfaces. Santin M, et al. **Biomaterials** 1997 Jun;18(11):823–7

Controlled release of antibiotics from biomedical polyurethanes: morphological and structural features. Schierholz JM, et al. **Biomaterials** 1997 Jun;18(12):839–44

Preclinical and clinical studies of a collagen membrane (Bio-Gide). Schlegel AK, et al. **Biomaterials** 1997 Apr; 18(7):535–8

Mechanical and chemical consequences of the residual stresses in plasma sprayed hydroxyapatite coatings. Sergo V, et al. **Biomaterials** 1997 Mar;18(6):477–82

Novel alginate sponges for cell culture and transplantation. Shapiro L, et al. **Biomaterials** 1997 Apr;18(8):583–90

Effect of pH on protein adsorption to hydroxyapatite and tricalcium phosphate ceramics. Sharpe JR, et al. **Biomaterials** 1997 Mar;18(6):471–6

In vivo biostability of a polymeric hollow fibre membrane for cell encapsulation. Shoichet MS, et al. **Biomaterials** 1996 Feb;17(3):285–90

Tissue engineering and autologous transplant formation: practical approaches with resorbable biomaterials and new cell culture techniques. Sittinger M, et al. **Biomaterials** 1996 Feb;17(3):237–42 (41 ref.)

Influence of carboxylate ions containing polymers on calcification: in vitro study. Smetana K Jr, et al. **Biomaterials** 1996 Aug;17(16):1563–6

Uptake of drugs by catheters: the influence of the drug molecule on sorption by polyurethane catheters. Smith JC, et al. **Biomaterials** 1996 Aug;17(15):1469–72

Hydroxyapatite ceramics with selected sintering additives. Suchanek W, et al. **Biomaterials** 1997 Jul;18(13):923–33

Histological and biochemical evaluation of osteogenic response in porous hydroxyapatite coated alumina ceramics. Takaoka T, et al. **Biomaterials** 1996 Aug; 17(15):1499–505

Rate-controlling biopolymer membranes as transdermal delivery systems for nifedipine: development and in vitro evaluations. Thacharodi D, et al. **Biomaterials** 1996 Jul; 17(13):1307–11

Biomaterial-induced alterations of human neutrophils under fluid shear stress: scanning electron microscopical study in vitro. Tomczok J, et al. **Biomaterials** 1996 Jul; 17(14):1359–67

Preparation of cross-linked hyaluronic acid films of low water content. Tomihata K, et al. **Biomaterials** 1997 Feb; 18(3):189–95

Effect of particle size on molten states of starting powder and degradation of the relevant plasma-sprayed hydroxyapatite coatings. Tong W, et al. **Biomaterials** 1996 Aug;17(15):1507–13

In vivo degradation and biocompatability study of in vitro pre-degraded as-polymerized polylactide particles [letter; comment] Tunc DC. **Biomaterials** 1996 Nov;17(21):2109–12 . Comment on: Biomaterials 1995 Mar;16(4):267–74.

Comparative assessment of ureteral stent biomaterial encrustation. Tunney MM, et al. **Biomaterials** 1996 Aug; 17(15):1541–6

Proteins involved in the Vroman effect during exposure of human blood plasma to glass and polyethylene. Turbill P, et al. **Biomaterials** 1996 Jul;17(13):1279–87

Biocompatibility of glass-crystalline materials obtained by the sol-gel method: effect on macrophage function. Turyna B, et al. **Biomaterials** 1996 Jul;17(14):1379–86

Heparinization of gas plasma-modified polystyrene surfaces and the interactions of these surfaces with proteins studied with surface plasmon resonance. van Delden CJ, et al. **Biomaterials** 1997 Jun;18(12):845–52

Calcification of cross-linked collagen-elastin membrane implants in vivo and their proposed use in bone regeneration. Vardaxis NJ, et al. **Biomaterials** 1996 Aug; 17(15):1489–97

Effect of PEO surface density on long-circulating PLA-PEO nanoparticles which are very low complement activators. Vittaz M, et al. **Biomaterials** 1996 Aug;17(16):1575–81

Comparison of the size and morphology of UHMWPE wear debris produced by a hip joint simulator under serum and water lubricated conditions. Wang A, et al. **Biomaterials** 1996 May;17(9):865–71

Titanium, chromium and cobalt ions modulate the release of bone-associated cytokines by human monocytes/macrophages in vitro. Wang JY, et al. **Biomaterials** 1996 Dec;17(23):2233–40

Adsorption of bovine serum albumin on to titanium powder. Wassell DT, et al. **Biomaterials** 1996 May;17(9):859–64

Neural tissue engineering: from polymer to biohybrid organs. Woerly S, et al. **Biomaterials** 1996 Feb;17(3):301–10

In vitro degradation of a poly(propylene fumarate)-based composite material. Yaszemski MJ, et al. **Biomaterials** 1996 Nov;17(22):2127–30

Evaluation of asymmetric poly(vinyl alcohol) membranes for use in artificial islets. Young TH, et al. **Biomaterials** 1996 Nov;17(22):2139–45

Vascugraft polyurethane arterial prosthesis as femoro-popliteal and femoro-peroneal bypasses in humans: pathological, structural and chemical analyses of four excised grafts. Zhang Z, et al. **Biomaterials** 1997 Jan; 18(2):113–24

Rat sciatic nerve regeneration through a micromachined silicon chip. Zhao Q, et al. **Biomaterials** 1997 Jan; 18(1):75–80

Innovative materials: the NiTi alloys in orthodontics. Airoldi G, et al. **Biomed Mater Eng** 1996;6(4):299–305

Review of shape memory alloys medical applications in Russia. Brailovski V, et al. **Biomed Mater Eng** 1996; 6(4):291–8 (25 ref.)

Studies and applications of NiTi shape memory alloys in the medical field in China. Dai K, et al. **Biomed Mater Eng** 1996;6(4):233–40 (40 ref.)

The utility of superelasticity in medicine. Duerig TW, et al. **Biomed Mater Eng** 1996;6(4):255–66 (4 ref.)

Hydroxyapatite impregnated bone cement: in vitro and in vivo studies. Kwon SY, et al. **Biomed Mater Eng** 1997; 7(2):129–40

Applications of NMR imaging to the time-dependent swelling effect in polymers. Lee DH, et al. **Biomed Mater Eng** 1996;6(5):313–22

A study of load cycling in a NiTi shape memory alloy with pseudoelastic behaviour used in dental prosthetic fixators. Sabrià J, et al. **Biomed Mater Eng** 1996;6(3):153–7

On the nature of the biocompatibility and on medical applications of NiTi shape memory and superelastic alloys. Shabalovskaya SA. **Biomed Mater Eng** 1996;6(4):267–89 (39 ref.)

Ion implantation and thermal nitridation of biocompatible titanium. Torrisi L. **Biomed Mater Eng** 1996;6(5):379–88

Corrosion resistance improvement of NiTi osteosynthesis staples by plasma polymerized tetrafluoroethylene coating. Villermaux F, et al. **Biomed Mater Eng** 1996;6(4):241–54

Microrough surface of metallic biomaterials: a literature review. Wen X, et al. **Biomed Mater Eng** 1996;6(3):173–89 (97 ref.)

Self-setting hydroxyapatite cement as a carrier for bone-forming cells. Yoshikawa T, et al. **Biomed Mater Eng** 1996;6(5):345–51

Development of a haemocompatible pO2 sensor with phospholipid-based copolymer membrane. Zhang S, et al. **Biosens Bioelectron** 1996;11(10):1019–29

Measurement of cell adhesion and migration using phosphor-screen autoradiography. Dalton BA, et al. **Biotechniques** 1996 Aug;21(2):298–303

Collagen-based biomaterials. Ramshaw JA, et al. **Biotechnol Genet Eng Rev** 1996;13:335–82 (242 ref.)

Applications of chitin and chitosan for biomaterials. Shigemasa Y, et al. **Biotechnol Genet Eng Rev** 1996; 13:383–420 (132 ref.)

Activation of coagulation and platelets is affected by the hydrophobicity of artificial surfaces. Hunt BJ, et al. **Blood Coagul Fibrinolysis** 1997 Jun;8(4):223–31

Ex vivo elution of hemodialyzers. An additional criterion for the assessment of bioincompatibility. Grooteman MP, et al. **Blood Purif** 1996;14(6):421–30

Design of nonthrombogenic polymer surfaces for blood-contacting medical devices. Kim SW, et al. **Blood Purif** 1996;14(5):357–72 (24 ref.)

Extrusion of BOP-B graft orally following anterior cervical discectomy and fusion. Cavanagh SP, et al. **Br J Neurosurg** 1996 Aug;10(4):417–8

Disintegration of cervical intervertebral BOP grafts with neurological sequelae: a report of two cases. Dorward NL, et al. **Br J Neurosurg** 1997 Feb;11(1):65–8

Failure of osseous conduction with cervical interbody BOP graft. Hafez RF, et al. **Br J Neurosurg** 1997 Feb;11(1):57–9

A prospective clinical evaluation of the longevity of resorbable sutures in oral mucosa. Shaw RJ, et al. **Br J Oral Maxillofac Surg** 1996 Jun;34(3):252–4

Evaluation of artificial skin (Integra) in a rodent model. King WW, et al. **Burns** 1997 Mar;23 Suppl 1:S30–2

The scleral filet technique for secondary orbital implantation surgery. Jordan DR, et al. **Can J Ophthalmol** 1996 Dec; 31(7):356–61

Experimental evaluation of bleeding complications, thrombogenicity and neointimal characteristics of prosthetic patch materials used for carotid angioplasty. Rhee RY, et al. **Cardiovasc Surg** 1996 Dec;4(6):746–52

Effect of prolonged blood contact time on deposition of cellular and amorphous material on teflon-coated guidewires: a scanning electron microscopy study. Moreyra AE, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):355–9

Hydroxyapatite as metallic prosthesis coating: preliminary clinical experience. Toni A, et al. **Chir Organi Mov** 1996 Sep-Dec;81(4):351–9 **(Eng, Ita)**

Polymer coatings for stents. Can we judge a stent by its cover? [editorial; comment] Fischell TA. **Circulation** 1996 Oct 1;94(7):1494–5. Comment on: Circulation 1996 Oct 1;94(7):1690–7.

Lipid and protein deposition of N-vinyl pyrrolidone-containing group II and group IV frequent replacement contact lenses. Jones L, et al. **CLAO J** 1997 Apr;23(2):122-6

Comparison of aluminum removal between hemodialysis with polycarbonate low flux membrane and hemofiltration with polysulfone high flux membrane in end-stage renal failure patients [letter] Klemm A, et al. **Clin Nephrol** 1997 Feb; 47(2):133-4

Biocompatible dialysis membranes and acute renal failure: a study in post-operative acute tubular necrosis in cadaveric renal transplant recipients. Valeri A, et al. **Clin Nephrol** 1996 Dec;46(6):402-9

Osteochondral repair using perichondrial cells. A 1-year study in rabbits. Chu CR, et al. **Clin Orthop** 1997 Jul; (340):220-9

Particulate bioglass compared with hydroxyapatite as a bone graft substitute. Oonishi H, et al. **Clin Orthop** 1997 Jan; (334):316-25

The use of hydroxyapatite granules in mastoid obliteration. Yung MW. **Clin Otolaryngol** 1996 Dec;21(6):480-4

Anterior segment prosthesis development: evaluation of expanded polytetrafluoroethylene as a sclera-attached prosthetic material. Guo A, et al. **Cornea** 1996 Mar; 15(2):210-4

Acoustic emission and nondestructive evaluation of biomaterials and tissues. Kohn DH. **Crit Rev Biomed Eng** 1995;23(3-4):221-306 (338 ref.)

Biodegradable polymeric device for sustained intravitreal release of ganciclovir in rabbits. Hashizoe M, et al. **Curr Eye Res** 1997 Jul;16(7):633-9

Improved biocompatibility but limited graft survival after purification of alginate for microencapsulation of pancreatic islets. De Vos P, et al. **Diabetologia** 1997 Mar; 40(3):262-70

Cell activation and thrombin generation in heparin bonded cardiopulmonary bypass circuits using a novel in vitro model. Bannan S, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):268-75

A clinical study of the hydroxyapatite orbital implant. Ashworth JL, et al. **Eur J Ophthalmol** 1997 Jan-Mar; 7(1):1-8

Evaluation of human collagen biomaterials in the healing of colonic anastomoses in dogs. Mutter D, et al. **Eur J Surg** 1997 Apr;163(4):287-95

The role of Seprafilm bioresorbable membrane in adhesion prevention. Beck DE. **Eur J Surg Suppl** 1997;(577):49-55

Preclinical evaluation of Seprafilm bioresorbable membrane. Burns JW, et al. **Eur J Surg Suppl** 1997;(577):40-8 (21 ref.)

Physical, biological and handling characteristics of surgical suture material: a comparison of four different multifilament absorbable sutures. Debus ES, et al. **Eur Surg Res** 1997; 29(1):52-61

The hydroxyapatite orbital implant: a prospective study. Ashworth JL, et al. **Eye** 1996;10 (Pt 1):29-37

Immunotoxicity of medical devices. Symposium overview. Rodgers K, et al. **Fundam Appl Toxicol** 1997 Mar;36(1):1-14

Effects of implantable biomaterials on radiation dosimetry. Stenson KM, et al. **Head Neck** 1997 Aug;19(5):384-90

Biocompatibility and osteoconductivity of the pyrost bone substitutes. Tsuang YH, et al. **Histol Histopathol** 1997 Jan; 12(1):19-24

A silicon probe with integrated microheaters for thermal marking and monitoring of neural tissue. Chen J, et al. **IEEE Trans Biomed Eng** 1997 Aug;44(8):770-4

In vitro biocompatibility test for collagen-based dressings [letter] Balasubramani M, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):223-7

Polyethylene wear and osteolysis following total knee replacement. Ayers DC. **Instr Course Lect** 1997;46:205-13 (31 ref.)

Bioresorbable implants: applications in orthopaedic surgery. Blasier RD, et al. **Instr Course Lect** 1997;46:531-46 (64 ref.)

Noncemented total hip arthroplasty in the young patient: considerations for optimizing long-term implant survival. Bobyn JD, et al. **Instr Course Lect** 1994;43:299-313 (165 ref.)

The generation of wear debris from cementless hip prostheses. Collier JP, et al. **Instr Course Lect** 1994; 43:257-62 (11 ref.)

Particulate debris in cemented total hip replacement. Salvati EA, et al. **Instr Course Lect** 1994;43:277-88 (53 ref.)

Issues of biocompatibility: heparin-coated extracorporeal circuit. Hsu LC. **Int Anesthesiol Clin** 1996 Spring; 34(2):109-22 (58 ref.)

Biomaterials for orthopedic surgery in osteoporotic bone: a comparative study in osteopenic rats. Fini M, et al. **Int J Artif Organs** 1997 May;20(5):291-7

Coronary stenting with AVE microstents in acute myocardial infarction. Ilia R, et al. **Int J Cardiol** 1997 May 23; 59(3):247-50

Heparin-coated bypass circuits in cardiopulmonary bypass: improved biocompatibility or not. Levy M, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S81-7 (30 ref.)

Tissue reaction and material characteristics of four bone substitutes. Jensen SS, et al. **Int J Oral Maxillofac Implants** 1996 Jan-Feb;11(1):55-66

Histologic and histometric evaluation of rat alveolar wound healing around polyurethane resin implants. Carvalho TL, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):149-52

Flexible (Polyactive) versus rigid (hydroxyapatite) dental implants. Meijer GJ, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):135-40

Femoral shaft reconstruction using tissue-engineered growth of bone. Puelacher WC, et al. **Int J Oral Maxillofac Surg** 1996 Jun;25(3):223-8

A prospective comparison of two expanded polytetrafluoroethylene grafts for linear forearm hemodialysis access: does the manufacturer matter? Kaufman JL, et al. **J Am Coll Surg** 1997 Jul;185(1):74-9

Potential transfer of endotoxin across high-flux polysulfone membranes. Bommer J, et al. **J Am Soc Nephrol** 1996 Jun; 7(6):883-8

A comparison of three brands of polysulfone membranes. Hoenich NA, et al. **J Am Soc Nephrol** 1996 Jun;7(6):871-6

Impact of single use versus reuse of cellulose dialyzers on clinical parameters and indices of biocompatibility. Pereira BJ, et al. **J Am Soc Nephrol** 1996 Jun;7(6):861-70

Bone scintigraphic appearance of asymptomatic hydroxyapatite-coated hip arthroplasties. Moilanen T, et al. **J Arthroplasty** 1997 Jun;12(4):380-6

Aluminum polymeric implants: in vitro-in vivo evaluations. Pathak YV, et al. **J Biomater Appl** 1996 Jul;11(1):62-75

The medical device industry. Szycher M. **J Biomater Appl** 1996 Jul;11(1):76-118

Small caliber vascular grafts. Part II: Polyurethanes revisited. Zdrahala RJ. **J Biomater Appl** 1996 Jul;11(1):37-61 (90 ref.)

Fibronectin matrix formation by human fibroblasts on surfaces varying in wettability. Altankov G, et al. **J Biomater Sci Polym Ed** 1996;8(4):299-310

The incorporation and release of bovine serum albumin from poly(beta-hydroxybutyrate-hydroxyvalerate) microspheres. Atkins TW, et al. **J Biomater Sci Polym Ed** 1996;7(12):1065-73

Comparison of albumin binding capacities of three different reactive dye-derivatized poly(ethylene glycol dimethacrylate-hydroxyethyl methacrylate) microbeads. Denizli A, et al. **J Biomater Sci Polym Ed** 1997;8(6):411-20

Adsorbed serum protein mediated adhesion and growth behavior of bovine aortic endothelial cells on polyamine graft copolymer surfaces. Kikuchi A, et al. **J Biomater Sci Polym Ed** 1996;8(2):77-90

Hydrolytic degradation of the coral/poly(DL-lactic acid) bioresorbable material. Li S, et al. **J Biomater Sci Polym Ed** 1996;7(9):817-27

Preparation and evaluation of polyurethane surfaces containing immobilized plasminogen. Marconi W, et al. **J Biomater Sci Polym Ed** 1996;8(4):237-49

Enzymatic hydrolysis of copoly(N-hydroxypropyl-L-glutamine/L-leucine) hydrogels in vitro. Miyachi Y, et al. **J Biomater Sci Polym Ed** 1996;7(9):805-16

Encapsulation of mammalian cells into synthetic polymer membranes using least toxic solvents. Morikawa N, et al. **J Biomater Sci Polym Ed** 1997;8(8):575-86

Enhanced hydrogel adhesion by polymer interdiffusion: use of linear poly(ethylene glycol) as an adhesion promoter. Sahlin JJ, et al. **J Biomater Sci Polym Ed** 1997;8(6):421-36

Tolerogenic capacity of poly(ethylene glycol) (PEG)--modified ovalbumins in relation to their immunoreactivity towards anti-ovalbumin antibody. Saito T, et al. **J Biomater Sci Polym Ed** 1996;8(4):311-21

Mathematical simulation of unidirectional tissue formation: in vitro transanastomotic endothelialization model. Takamizawa K, et al. **J Biomater Sci Polym Ed** 1996; 8(4):323-34

Poly(ethylene oxide)-modified carboxylated polystyrene latices--immobilization chemistry and protein adsorption. van Delden CJ, et al. **J Biomater Sci Polym Ed** 1996; 8(4):251-68

Synthesis of silane coupling agents containing fluorocarbon chain and applications to dentistry: plaque-controlling surface modifiers. Yoshino N, et al. **J Biomater Sci Polym Ed** 1997;8(8):623-53 (38 ref.)

Technique to control pH in vicinity of biodegrading PLA-PGA implants. Agrawal CM, et al. **J Biomed Mater Res** 1997 Summer;38(2):105-14

Numerical and experimental stress analysis of a polymeric composite hip joint prosthesis. Akay M, et al. **J Biomed Mater Res** 1996 Jun;31(2):167-82

Glow discharge plasma treatment for surface cleaning and modification of metallic biomaterials. Aronsson BO, et al. **J Biomed Mater Res** 1997 Apr;35(1):49-73

Neomembranes: a concept review with special reference to self-reinforced polyglycolide membranes. Ashammakhi NA. **J Biomed Mater Res** 1996 Winter;33(4):297-303

Preparation of purified atactic polypropylene and polyvinyl methyl ether surfaces for thrombogenicity studies. Aziz CA, et al. **J Biomed Mater Res** 1996 Oct;32(2):193-202

Fibrinogen binding and platelet retention: relationship with the thrombogenicity of catheters. Bailly AL, et al. **J Biomed Mater Res** 1996 Jan;30(1):101-8

Effect of electrochemically deposited apatite coating on bonding of bone to the HA-G-Ti composite and titanium. Ban S, et al. **J Biomed Mater Res** 1997 Jul;36(1):9-15

Reduced plaque accumulation on hydrocarbon thin film deposited on restorative acrylic polymers. Bellanda M, et al. **J Biomed Mater Res** 1997 Aug;36(2):216-22

LPS increases biomaterial degradation by human monocytes in vitro. Benahmed M, et al. **J Biomed Mater Res** 1997 Jan;34(1):115-9

Biocompatibility testing of NiTi screws using immunohistochemistry on sections containing metallic implants. Berger-Gorbet M, et al. **J Biomed Mater Res** 1996 Oct;32(2):243-8

Polyurethane heart valves: fatigue failure, calcification, and polyurethane structure. Bernacca GM, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):371-9

Nondestructive measurements of implant-bone interface shear modulus and effects of implant geometry in pull-out tests. Berzins A, et al. **J Biomed Mater Res** 1997 Mar 5; 34(3):337-40

Reduced protein adsorption on plastics via direct plasma deposition of triethylene glycol monoallyl ether. Beyer D, et al. **J Biomed Mater Res** 1997 Aug;36(2):181-9

Controlling cell interactions by micropatterning in co-cultures: hepatocytes and 3T3 fibroblasts. Bhatia SN, et al. **J Biomed Mater Res** 1997 Feb;34(2):189-99

Local accumulation of titanium released from a titanium implant in the absence of wear. Bianco PD, et al. **J Biomed Mater Res** 1996 Jun;31(2):227-34

Osseointegration in cortical sheep bone of calcium phosphate implants evaluated by PIXE method and histology. Braye F, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):315-24

The influence of alkali and alkaline earths on the working range for bioactive glasses. Brink M. **J Biomed Mater Res** 1997 Jul;36(1):109-17

A bibliography of monographic works on biomaterials and biocompatibility: update. Bush RB. **J Biomed Mater Res** 1996 Summer;33(2):107-13

Surface-induced mineralization: a new method for producing calcium phosphate coatings. Campbell AA, et al. **J Biomed Mater Res** 1996 Sep;32(1):111-8

A histological and histomorphometrical evaluation of the application of screw-designed calciumphosphate (Ca-P)-coated implants in the cancellous maxillary bone of the goat. Caulier H, et al. **J Biomed Mater Res** 1997 Apr;35(1):19-30

CD62, thromboxane B2, and beta-thromboglobulin: a comparison between different markers of platelet activation after contact with biomaterials. Cenni E, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):289-94

Synergistic induction of tumor necrosis factor alpha by bacterial lipopolysaccharide and lipoteichoic acid in combination with polytetrafluoroethylene particles in a murine macrophage cell line RAW 264.7. Chapekar MS, et al. **J Biomed Mater Res** 1996 Jun;31(2):251-6

The effects of micromachined surfaces on formation of bonelike tissue on subcutaneous implants as assessed by radiography and computer image processing. Chehroudi B, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):279-90

Difference in adhesion and proliferation of fibroblast between Langmuir-Blodgett films and cast surfaces of poly (gamma-benzyL L-glutamate)/poly(ethylene oxide) diblock copolymer. Cho CS, et al. **J Biomed Mater Res** 1996 Nov;32(3):425-32

Healing of gaps around calcium phosphate-coated implants in trabecular bone of the goat. Clemens JA, et al. **J Biomed Mater Res** 1997 Jul;36(1):55-64

Quantitative comparison of shear-dependent Staphylococcus aureus adhesion to three polyurethane ionomer analogs with distinct surface properties. Dickinson RB, et al. **J Biomed Mater Res** 1997 Aug;36(2):152-62

Fatigue behavior of zirconia hip joint heads: experimental results and finite element analysis. Drouin JM, et al. **J Biomed Mater Res** 1997 Feb;34(2):149-55

Characterization of silane-treated hydroxyapatite powders for use as filler in biodegradable composites. Dupraz AM, et al. **J Biomed Mater Res** 1996 Feb;30(2):231-8

In vivo evaluation of a collagenous membrane as an absorbable adhesion barrier. Edwards GA, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):291-7

Evaluating sol-gel ceramic thin films for metal implant applications. II. Adhesion and fatigue properties of zirconia films on Ti-6Al-4V. Filiaggi MJ, et al. **J Biomed Mater Res** 1996 Winter;33(4):239-56

Evaluating sol-gel ceramic thin films for metal implant applications. I. Processing and structure of zirconia films on Ti-6Al-4V. Filiaggi MJ, et al. **J Biomed Mater Res** 1996 Winter;33(4):225-38

A two-step embedding process for better preservation of soft tissue surrounding coral implants. Fricain JC, et al. **J Biomed Mater Res** 1996 Spring;33(1):23-7

Development of a skin model based on insoluble fibrillar collagen. Geesin JC, et al. **J Biomed Mater Res** 1996 Spring; 33(1):1-8

Material-induced up-regulation of leukocyte CD11b during whole blood contact: material differences and a role for complement. Gemmell CH, et al. **J Biomed Mater Res** 1996 Sep;32(1):29-35

Porous bioactive glass and hydroxyapatite ceramic affect bone cell function in vitro along different time lines. El-Ghannam A, et al. **J Biomed Mater Res** 1997 Aug; 36(2):167-80

Sterility, mechanical properties, and molecular stability of polylactide internal-fixation devices treated with low-temperature plasmas. Gogolewski S, et al. **J Biomed Mater Res** 1996 Oct;32(2):227-35

Relationship between microstructure and ductility of investment cast ASTM F-75 implant alloy. Gómez M, et al. **J Biomed Mater Res** 1997 Feb;34(2):157-63

Platelet interaction with pyrolytic carbon heart-valve leaflets. Goodman SL, et al. **J Biomed Mater Res** 1996 Oct;32(2):249-58

Evaluation of matrix scaffolds for tissue engineering of

articular cartilage grafts. Grande DA, et al. **J Biomed Mater Res** 1997 Feb;34(2):211–20

Surface chemical structure for soft contact lenses as a function of polymer processing. Grobe GL 3rd, et al. **J Biomed Mater Res** 1996 Sep;32(1):45–54

A new anti-infective collagen dressing containing antibiotics. Grzybowski J, et al. **J Biomed Mater Res** 1997 Aug; 36(2):163–6

Association of human growth hormone and calcium phosphate by dynamic compaction: in vitro biocompatibility and bioactivity. Guicheux J, et al. **J Biomed Mater Res** 1997 Aug;36(2):258–64

Surface modifications of titanium in calcium-ion-containing solutions. Hanawa T, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):273–8

Early bone formation around calcium-ion-implanted titanium inserted into rat tibia. Hanawa T, et al. **J Biomed Mater Res** 1997 Jul;36(1):131–6

Bidirectional friction study of cancellous bone-porous coated metal interface. Hashemi A, et al. **J Biomed Mater Res** 1996 Winter;33(4):257–67

Ultrastructural features of the bone response to a plasma-sprayed hydroxyapatite coating in sheep. Hemmerlé J, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):418–25

New radiopaque polyHEMA-based hydrogel particles. Horák D, et al. **J Biomed Mater Res** 1997 Feb;34(2):183–8

Effect of polymer foam morphology and density on kinetics of in vitro controlled release of isoniazid from compressed foam matrices. Hsu YY, et al. **J Biomed Mater Res** 1997 Apr;35(1):107–16

Photoreactive analog of peptide FN-C/H-V from the carboxy-terminal heparin-binding domains of fibronectin supports endothelial cell adhesion and spreading on biomaterial surfaces. Huebsch JB, et al. **J Biomed Mater Res** 1996 Aug;31(4):555–67

Evaluation of plasma-spray and magnetron-sputter Ca-P-coated implants: an in vivo experiment using rabbits. Hulshoff JE, et al. **J Biomed Mater Res** 1996 Jul; 31(3):329–37

Mechanical and histologic evaluation of Ca-P plasma-spray and magnetron sputter-coated implants in trabecular bone of the goat. Hulshoff JE, et al. **J Biomed Mater Res** 1997 Jul;36(1):75–83

Bone formation by three-dimensional stromal osteoblast culture in biodegradable polymer scaffolds. Ishaug SL, et al. **J Biomed Mater Res** 1997 Jul;36(1):17–28

Ectopic bone formation by marrow stromal osteoblast transplantation using poly(DL-lactic-co-glycolic acid) foams implanted into the rat mesentery. Ishaug-Riley SL, et al. **J Biomed Mater Res** 1997 Jul;36(1):1–8

Non-decay type fast-setting calcium phosphate cement: hydroxyapatite putty containing an increased amount of sodium alginate. Ishikawa K, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):393–9

Blast coating method: new method of coating titanium surface with hydroxyapatite at room temperature. Ishikawa K, et al. **J Biomed Mater Res** 1997 Summer;38(2):129–34

Histomorphometric evaluation of the thin hydroxyapatite layer formed through anodization followed by hydrothermal treatment. Ishizawa H, et al. **J Biomed Mater Res** 1997 May;35(2):199–206

Bone morphogenetic protein encapsulated with a biodegradable and biocompatible polymer. Isobe M, et al. **J Biomed Mater Res** 1996 Nov;32(3):433–8

In vitro properties of a chitosan-bonded bone-filling paste: studies on solubility of calcium phosphate compounds. Ito M, et al. **J Biomed Mater Res** 1996 Sep;32(1):95–8

Synthetic scleral reinforcement materials. II. Collagen types in the fibrous capsule. Jacob JT, et al. **J Biomed Mater Res** 1996 Oct;32(2):181–6

Calcification of polyurethanes implanted subdermally in rats is enhanced by calciphylaxis. Joshi RR, et al. **J Biomed Mater Res** 1996 Jun;31(2):201–7

UV curable bioadhesives: copolymers of N-vinyl pyrrolidone. Kao FJ, et al. **J Biomed Mater Res** 1997 Fall; 38(3):191–6

Complement-mediated leukocyte adhesion on poly(etherurethane ureas) under shear stress in vitro. Kao WJ, et al. **J Biomed Mater Res** 1996 Sep;32(1):99–109

Human monocyte morphology is affected by local substrate charge heterogeneity. Kapur R, et al. **J Biomed Mater Res** 1996 Sep;32(1):133–42

Nontoxic embolic liquids for treatment of arteriovenous malformations. Kazekawa K, et al. **J Biomed Mater Res** 1997 Summer;38(2):79–86

Physicochemical and biological studies of corona-treated artificial membranes used for pancreatic islets encapsulation: mechanism of diffusion and interface modification. Kessler L, et al. **J Biomed Mater Res** 1997 Feb;34(2):235–45

Surface roughness modulates the local production of growth factors and cytokines by osteoblast-like MG-63 cells. Kieswetter K, et al. **J Biomed Mater Res** 1996 Sep; 32(1):55–63

Bonding strength of bonelike apatite layer to Ti metal substrate. Kim HM, et al. **J Biomed Mater Res** 1997 Summer;38(2):121–7

Effects of recombinant human bone morphogenetic protein-2 on human bone marrow cells cultured with various biomaterials. Kim KJ, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):279–85

Bone bonding behavior of titanium and its alloys when coated with titanium oxide (TiO2) and titanium silicate (Ti5Si3). Kitsugi T, et al. **J Biomed Mater Res** 1996 Oct;32(2):149–56

Bone-bonding behavior of plasma-sprayed coatings of BioglassR, AW-glass ceramic, and tricalcium phosphate on titanium alloy. Kitsugi T, et al. **J Biomed Mater Res** 1996 Feb;30(2):261–9

Mechanism of adsorption of human albumin to titanium in vitro. Klinger A, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):387–92

Platelet adhesion to novel phospholipid materials: modified phosphatidylcholine covalently immobilized to silica, polypropylene, and PTFE materials. Köhler AS, et al. **J Biomed Mater Res** 1996 Oct;32(2):237–42

Autosterilization of biodegradable implants by injection molding process. König C, et al. **J Biomed Mater Res** 1997 Summer;38(2):115–9

Culture materials affect ex vivo expansion of hematopoietic progenitor cells. LaIuppa JA, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):347–59

Correlation between substratum roughness and wettability, cell adhesion, and cell migration. Lampin M, et al. **J Biomed Mater Res** 1997 Jul;36(1):99–108

Plasma surface modification of artificial corneas for optimal epithelialization. Latkany R, et al. **J Biomed Mater Res** 1997 Jul;36(1):29–37

Development and characterization of an alginate-impregnated polyester vascular graft. Lee JH, et al. **J Biomed Mater Res** 1997 Aug;36(2):200–8

Examination of hydroxyapatite filled 4-META/MMA-TBB adhesive bone cement in vitro and in vivo environment. Lee RR, et al. **J Biomed Mater Res** 1997 Spring;38(1):11–6

Influence of ePTFE polymer implant permeability on the rate and density of corneal extracellular matrix synthesis. Legeais JM, et al. **J Biomed Mater Res** 1997 Jul;36(1):49–54

Influence of substrate material and surface finishing on the morphology of the calcium-phosphate coating. Leitão E, et al. **J Biomed Mater Res** 1997 Jul;36(1):85–90

Polyethylene wear in total hip and knee arthroplasties. Lewis G. **J Biomed Mater Res** 1997 Spring;38(1):55–75 (118 ref.)

Properties of acrylic bone cement: state of the art review. Lewis G. **J Biomed Mater Res** 1997 Summer;38(2):155–82 (126 ref.)

Stereomorphologic observation of bone tissue response to hydroxyapatite using SEM with the EDTA-KOH method. Lin TC, et al. **J Biomed Mater Res** 1997 Jul;36(1):91–7

Glass peek composite promotes proliferation and osteocalcin production of human osteoblastic cells. Lin TW, et al. **J Biomed Mater Res** 1997 Aug;36(2):137–44

Surfaces modified with PEO by the Williamson reaction and their affinity for proteins. Litauszki L, et al. **J Biomed Mater Res** 1997 Apr;35(1):1–8

Mechanism of the hardening process for a hydroxyapatite cement. Liu C, et al. **J Biomed Mater Res** 1997 Apr; 35(1):75–80

2-hydroxyethyl methacrylate-terminated polyurethane/polyurethane interpenetrating polymer networks. Liu CJ, et al. **J Biomed Mater Res** 1997 Feb; 34(2):261–8

Effects of cement creep on stem subsidence and stresses in the cement mantle of a total hip replacement. Lu Z, et al. **J Biomed Mater Res** 1997 Feb;34(2):221–6

Effect of in vivo and in vitro degradation on molecular and mechanical properties of various low-molecular-weight polylactides. Mainil-Varlet P, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):360–80

Positional stability of polylactide pins with various surface textures in sheep tibia. Mainil-Varlet P, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):351–9

Crystal dissolution-controlled release systems. II. Metronidazole release from semicrystalline poly(vinyl alcohol) systems. Mallapragada SK, et al. **J Biomed Mater Res** 1997 Jul;36(1):125–30

Materials and design of spinal implants--a review. Martz EO, et al. **J Biomed Mater Res** 1997 Fall;38(3):267–88 (130 ref.)

In vivo biocompatibility and biostability of modified polyurethanes. Mathur AB, et al. **J Biomed Mater Res** 1997 Aug;36(2):246–57

Control of cell adhesion, migration, and orientation on photochemically microprocessed surfaces. Matsuda T, et al. **J Biomed Mater Res** 1996 Oct;32(2):165–73

Surface microarchitectural design in biomedical applications: in vitro transmural endothelialization on microporous segmented polyurethane films fabricated using an excimer laser. Matsuda T, et al. **J Biomed Mater Res** 1996 Jun; 31(2):235–42

Use of p-nitrophenyl chloroformate chemistry to immobilize protein on orthopedic biomaterials. Mikulec LJ, et al. **J Biomed Mater Res** 1996 Oct;32(2):203–8

Enhanced strength in cemented stem fixation using adhesive acrylic cement as a metal coating material. Morita S, et al. **J Biomed Mater Res** 1997 Feb;34(2):171–5

Staphylococcus epidermidis adhesion to films deposited from hydroxyethylmethacrylate plasma. Morra M, et al. **J Biomed Mater Res** 1996 Jun;31(2):149–55

Canine chondrocytes seeded in type I and type II collagen implants investigated in vitro. Nehrer S, et al. **J Biomed Mater Res** 1997 Summer;38(2):95–104

Adhesion of staphylococci to polymers with and without immobilized heparin in cerebrospinal fluid. Nomura S, et al. **J Biomed Mater Res** 1997 Spring;38(1):35–42

Development of tricalcium phosphate/amylopectin paste combined with recombinant human transforming growth factor beta 1 as a bone defect filler. Ongpipattanakul B, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):295–305

A study of the influence of biphase calcium phosphate ceramics on bacterial strains: in vitro approach. Opalchenova G, et al. **J Biomed Mater Res** 1996 Jun; 31(2):219–26

A new biological glue from gelatin and poly (L-glutamic acid). Otani Y, et al. **J Biomed Mater Res** 1996 Jun; 31(2):158–66

Collagen-based devices for soft tissue repair. Pachence JM. **J Biomed Mater Res** 1996 Spring;33(1):35–40 (65 ref.)

Corrosion resistance for biomaterial applications of TiO2 films deposited on titanium and stainless steel by ion-beam-assisted sputtering. Pan J, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):309–18

Surface adsorption and fibrinogen interactions with hirudin-thrombin complex. Patel R, et al. **J Biomed Mater Res** 1996 Sep;32(1):11–8

Evaluation of cellular proliferation on collagenous membranes. Pellen-Mussi P, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):331–6

TiO2-polymer composites for biomedical applications. Peña J, et al. **J Biomed Mater Res** 1997 Apr;35(1):129–34

Shape and size of virgin ultrahigh molecular weight GUR 4150 HP polyethylene powder. Pienkowski D, et al. **J Biomed Mater Res** 1996 Summer;33(2):65–71

Effect of simulated intraoperative heating and shaping on mechanical properties of a bioabsorbable fracture plate material. Pietrzak WS, et al. **J Biomed Mater Res** 1997 Spring;38(1):17–24

In vivo testing of crosslinked polyethers. I. Tissue reactions and biodegradation. Pol BJ, et al. **J Biomed Mater Res** 1996 Nov;32(3):307–20

In vivo testing of crosslinked polyethers. II. Weight loss, IR analysis, and swelling behavior after implantation. Pol BJ, et al. **J Biomed Mater Res** 1996 Nov;32(3):321–31

Factors influencing stability at the interface between a porous surface and cancellous bone: a finite element analysis of a canine in vivo micromotion experiment. Ramamurti BS, et al. **J Biomed Mater Res** 1997 Aug;36(2):274–80

Crystallization of experimental bioactive glass compositions. Rizkalla AS, et al. **J Biomed Mater Res** 1996 Sep; 32(1):119–24

Novel fracture toughness test using a notchless triangular prism (NTP) specimen. Ruse ND, et al. **J Biomed Mater Res** 1996 Aug;31(4):457–63

Biocompatibility of nickel-titanium shape memory metal and its corrosion behavior in human cell cultures. Ryhänen J, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):451–7

Development of degradable polyesterurethanes for medical applications: in vitro and in vivo evaluations. Saad B, et al. **J Biomed Mater Res** 1997 Jul;36(1):65–74

Assessment of bioactivity for orthopedic coatings in a gap-healing model. Sakkers RJ, et al. **J Biomed Mater Res** 1997 Aug;36(2):265–73

The effects of porosity on endothelialization of ePTFE implanted in subcutaneous and adipose tissue. Salzmann DL, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):463–76

Experimental study of the antithrombogenic behavior of Dacron vascular grafts coated with hydrophilic acrylic copolymers bearing salicylic acid residues. San Román J, et al. **J Biomed Mater Res** 1996 Sep;32(1):19–27

The effect of hard segment size on the hydrolytic stability of polyether-urea-urethanes when exposed to cholesterol esterase. Santerre JP, et al. **J Biomed Mater Res** 1997 Aug; 36(2):223–32

Leukocyte-biomaterial interactions in the presence of Staphylococcus epidermidis: flow cytometric evaluation of leukocyte activation. Sapatnekar S, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):409–20

Shapes and dimensional characteristics of polyethylene wear particles generated in vivo by total knee replacements compared to total hip replacements. Schmalzried TP, et al. **J Biomed Mater Res** 1997 Fall;38(3):203–10

Types I and III collagen in the tissue capsules of titanium and stainless-steel implants. Shannon C, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):401–8

In vivo characterization of a fluoropassivated gelatin-impregnated polyester mesh for hernia repair. Soares BM, et al. **J Biomed Mater Res** 1996 Nov; 32(3):293–305

In vitro characterization of a fluoropassivated gelatin-impregnated polyester mesh for hernia repair. Soares BM, et al. **J Biomed Mater Res** 1996 Oct; 32(2):259–70

Protein adsorption to a bioactive glass with special reference to precorrosion. Söderling E, et al. **J Biomed Mater Res** 1996 Aug;31(4):525–31

Synthesis of phenylazido-derivatized substances and photochemical surface modification to immobilize functional groups. Sugawara T, et al. **J Biomed Mater Res** 1996 Oct;32(2):157–64

Subchondral bone and cartilage repair with bioactive glasses, hydroxyapatite, and hydroxyapatite-glass composite. Suominen E, et al. **J Biomed Mater Res** 1996 Dec; 32(4):543–51

Biocompatibility of alumina ceramic and polyethylene as materials for pivot bearings of a centrifugal blood pump. Takami Y, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):381–6

Surface functional group dependence on apatite formation

on self-assembled monolayers in a simulated body fluid. Tanahashi M, et al. **J Biomed Mater Res** 1997 Mar 5; 34(3):305-15

Use of surface-modifying macromolecules to enhance the biostability of segmented polyurethanes. Tang YW, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):371-81

Variations in solution chemistry during calcium-deficient and stoichiometric hydroxyapatite formation from CaHPO4.2H2O and Ca4(PO4)2O. TenHuisen KS, et al. **J Biomed Mater Res** 1997 Aug;36(2):233-41

Bending strength of synthetic OH-carbonated hydroxyapatite single crystals. Teraoka K, et al. **J Biomed Mater Res** 1997 Feb;34(2):269-72

Effect of water vapor pressure and temperature on the amorphous-to-crystalline HA conversion during heat treatment of HA coatings. Tong W, et al. **J Biomed Mater Res** 1997 Aug;36(2):242-5

Advances in polyvinyl alcohol hydrogel keratoprostheses: protection against ultraviolet light and fabrication by a molding process. Tsuk AG, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):299-304

Assessment of urinary tract biomaterial encrustation using a modified Robbins device continuous flow model. Tunney MM, et al. **J Biomed Mater Res** 1997 Summer;38(2):87-93

Effect of alternative crosslinking techniques on the enzymatic degradation of bovine pericardia and their calcification. Vasudev SC, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):357-69

Histomorphometric and molecular biologic comparison of bioactive glass granules and autogenous bone grafts in augmentation of bone defect healing. Virolainen P, et al. **J Biomed Mater Res** 1997 Apr;35(1):9-17

Wear testing of materials and surfaces for total knee replacement. Walker PS, et al. **J Biomed Mater Res** 1996 Fall;33(3):159-75

Biodegradation of a poly(ester)urea-urethane by cholesterol esterase: isolation and identification of principal biodegradation products. Wang GB, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):407-17

Interfacial fracture toughness of tissue-biomaterial systems. Wang X, et al. **J Biomed Mater Res** 1997 Spring;38(1):1-10

Platelet-polymer interactions: morphologic and intracellular free calcium studies of individual human platelets. Waples LM, et al. **J Biomed Mater Res** 1996 Sep;32(1):65-76

Adhesion of bacteria to stainless steel and silver-coated orthopedic external fixation pins. Wassall MA, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):325-30

Effect of Ni ions on expression of intercellular adhesion molecule 1 by endothelial cells. Wataha IC, et al. **J Biomed Mater Res** 1997 Aug;36(2):145-51

Integrity and thermal decomposition of apatite in coatings influenced by underlying titanium during plasma spraying and post-heat-treatment. Weng J, et al. **J Biomed Mater Res** 1996 Jan;30(1):5-11

Molecular orbital models of ring expansion mechanisms in the silica-carbon monoxide system. West JK, et al. **J Biomed Mater Res** 1997 Aug;36(2):209-15

Evaluation of particulate Bioglass in a rabbit radius ostectomy model. Wheeler DL, et al. **J Biomed Mater Res** 1997 May;35(2):249-54

Heterogeneous nucleation of calcium phosphates on solid surfaces in aqueous solution. Wu W, et al. **J Biomed Mater Res** 1997 Apr;35(1):93-9

Effect of high external pressures on the vibrational spectra of biomedical materials: calcium hydroxyapatite and calcium fluoroapatite. Xu J, et al. **J Biomed Mater Res** 1996 Feb;30(2):239-44

Fretting corrosion resistance and fretting corrosion product cytocompatibility of ferritic stainless steel. Xulin S, et al. **J Biomed Mater Res** 1997 Jan;34(1):9-14

Intramedullary implant of plasma-sprayed hydroxyapatite coating: an interface study. Yang CY, et al. **J Biomed Mater Res** 1997 Jul;36(1):39-48

Radiation-induced graft copolymer SBS-g-VP for biomaterial usage. Yang JM, et al. **J Biomed Mater Res** 1996 Jun;31(2):281-6

Mechanical properties of acrylic bone cement containing PMMA-SiO2 hybrid sol-gel material. Yang JM, et al. **J Biomed Mater Res** 1997 Summer;38(2):143-54

Initial hemocompatibility studies of titanium and zirconium alloys: prekallikrein activation, fibrinogen adsorption, and their correlation with surface electrochemical properties. Yun YH, et al. **J Biomed Mater Res** 1996 Sep;32(1):77-85

A novel technique for quantitative detection of mRNA expression in human bone derived cells cultured on biomaterials. Zreiqat H, et al. **J Biomed Mater Res** 1996 Winter;33(4):217-23

Hydroxyapatite-coated total hip femoral components in patients less than fifty years old. Clinical and radiographic results after five to eight years of follow-up. Capello WN, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1023-9

Hydroxyapatite coating of threaded pins enhances fixation. Magyar G, et al. **J Bone Joint Surg Br** 1997 May; 79(3):487-9

Measurement of polyethylene wear in cementless total hip arthroplasty. Shih CH, et al. **J Bone Joint Surg Br** 1997 May;79(3):361-5

The current status of hydroxyapatite coating of prostheses [editorial] Søballe K, et al. **J Bone Joint Surg Br** 1996 Sep; 78(5):689-91 (39 ref.)

Safety of dental materials [letter] Imbeau J. **J Can Dent Assoc** 1996 Dec;62(12):920

Biocompatibility in cardiopulmonary bypass. Hsu LC. **J Cardiothorac Vasc Anesth** 1997 May;11(3):376-82 (79 ref.)

Silicone oil adhesion to intraocular lenses: an experimental study comparing various biomaterials [see comments] Apple DJ, et al. **J Cataract Refract Surg** 1997 May; 23(4):536-44. Comment in: J Cataract Refract Surg 1997 May;23(4):457.

Additional thoughts on polysulfone corneal inlays [letter; comment] Choyce DP. **J Cataract Refract Surg** 1997 Jan-Feb;23(1):8-9. Comment on: J Cataract Refract Surg 1996 Oct;22(8):1045-51.

Four year follow-up of the MemoryLens. Pötzsch DK, et al. **J Cataract Refract Surg** 1996;22 Suppl 2:1336-41

Intestinal anastomosis with valtrac biofragmentable ring. Our experience. Annessi P, et al. **J Chemother** 1997 Apr;9(2):146

Surgical technique and biomaterials for totally implanted port catheter systems. Campisi C, et al. **J Chemother** 1997 Apr; 9(2):155-6

Novel polymeric solid-phase extraction material for complex biological matrices. Portable and disposable artificial kidney. Davankov VA, et al. **J Chromatogr B Biomed Appl** 1997 Feb 7;689(1):117-22

Clinical evaluation of a bioabsorbable regenerative material in mandibular class II furcation therapy. Bouchard P, et al. **J Clin Periodontol** 1997 Jul;24(7):511-8

Guided tissue regeneration in conjunction with hydroxyapatite-collagen grafts for intrabony defects. A clinical and radiological evaluation. Kiliç AR, et al. **J Clin Periodontol** 1997 Jun;24(6):372-83

Effects of polyglactin mesh combined with resorbable calcium carbonate or replamineform hydroxyapatite on periodontal repair in dogs. Moon IS, et al. **J Clin Periodontol** 1996 Oct;23(10):945-51

Particulate bioglass as a grafting material in the treatment of periodontal intrabony defects. Zamet JS, et al. **J Clin Periodontol** 1997 Jun;24(6):410-8

Self-regenerating bone implant: ectopic osteoinduction following intramuscular implantation of a combination of rhBMP-2, atelopeptide type I collagen and porous hydroxyapatite. Kusumoto K, et al. **J Craniomaxillofac Surg** 1996 Dec;24(6):360-5

Use of Bioplant HTR synthetic bone to eliminate major jawbone defects: long-term human histological examinations. Szabó G, et al. **J Craniomaxillofac Surg** 1997 Apr;25(2):63-8

The On-X [letter; comment] Bokros J. **J Heart Valve Dis** 1997 Jan;6(1):101. Comment on: J Heart Valve Dis 1996 Nov;5(6):572-3.

The Bicarbon heart valve prosthesis: short-term results. Casselman F, et al. **J Heart Valve Dis** 1997 Jul;6(4):410-5

Long-term biostability of polyacetal (Delrin) implants. McKellop HA, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S238-42

Biocompatibility and immunologic properties of pericardial tissue stabilized by dye-mediated photooxidation. Moore MA, et al. **J Heart Valve Dis** 1997 May;6(3):307-15

Summary and recommendations. Stein PD, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S246-8 (10 ref.)

Exposure of blood to biomaterial surfaces liberates substances that activate polymorphonuclear granulocytes. Karlsson C, et al. **J Lab Clin Med** 1996 Nov;128(5):496-505

Adhesion and activation of platelets and polymorphonuclear granulocyte cells at TiO2 surfaces. Nygren H, et al. **J Lab Clin Med** 1997 Jan;129(1):35-46

Long-term observation of subcutaneous tissue reaction to synthetic auditory ossicle (Apaceram) in rats. Li DJ, et al. **J Laryngol Otol** 1997 Aug;111(8):702-6

Fibrinogen adsorption to receptor-like biomaterials made by pre-adsorbing peptides to polystyrene substrates. Grunkemeier JM, et al. **J Mol Recognit** 1996 May-Jun; 9(3):247-57

Duraplasty with biosynthetic cellulose: an experimental study. Mello LR, et al. **J Neurosurg** 1997 Jan;86(1):143-50

A bioabsorbable poly-L-lactide miniplate and screw system for osteosynthesis in oral and maxillofacial surgery. Bessho K, et al. **J Oral Maxillofac Surg** 1997 Sep; 55(9):941-5;discussion 945-6

Reconstruction of mandibular continuity defects in dogs using poly (L-lactide) mesh and autogenic particulate cancellous bone and marrow: preliminary report. Kinoshita Y, et al. **J Oral Maxillofac Surg** 1997 Jul;55(7):718-23; discussion 723-4

Radiographic evaluation of mandibular augmentation with prefabricated hydroxylapatite/fibrin glue implants. Meijer HJ, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):138-44; discussion 144-5

Avoiding ridge resorption when using hydroxylapatite for augmentation [letter] Schaffer AB. **J Oral Maxillofac Surg** 1997 Sep;55(9):1036-7

Efficacy of bioadhesive patches in the treatment of recurrent aphthous stomatitis. Mahdi AB, et al. **J Oral Pathol Med** 1996 Sep;25(8):416-9

Tissue reactions to biodegradable and non-degradable membranes placed transcutaneously in rats, observed longitudinally over a period of 4 weeks. Galgut P, et al. **J Oral Rehabil** 1996 Jan;23(1):17-21

A comparative study of flexible (Polyactive) versus rigid (hydroxylapatite) permucosal dental implants. I. Clinical aspects. Meijer GJ, et al. **J Oral Rehabil** 1997 Feb; 24(2):85-92

A comparative study of flexible (Polyactive) versus rigid (hydroxylapatite) permucosal dental implants. II. Histological aspects. Meijer GJ, et al. **J Oral Rehabil** 1997 Feb;24(2):93-101

Bioactive glass particles of narrow size range for the treatment of oral bone defects: a 1-24 month experiment with several materials and particle sizes and size ranges. Schepers EJ, et al. **J Oral Rehabil** 1997 Mar;24(3):171-81

Guided periodontal tissue regeneration in interproximal intrabony defects following treatment with a synthetic bioabsorbable barrier. Hürzeler MB, et al. **J Periodontol** 1997 May;68(5):489-97

Guided periodontal tissue regeneration in Class II furcation defects following treatment with a synthetic bioabsorbable barrier. Hürzeler MB, et al. **J Periodontol** 1997 May; 68(5):498-505

Cellular colonization and bone formation into expanded polytetrafluoroethylene membranes: a light microscopical and histochemical time course study in the rabbit. Piattelli A, et al. **J Periodontol** 1996 Jul;67(7):720-5

A histologic evaluation of retrieved hydroxyapatite-coated blade-form implants using scanning electron, light, and confocal laser scanning microscopies. Takeshita F, et al. **J Periodontol** 1996 Oct;67(10):1034-40

Preparation of poly(D,L-lactide) and copoly(lactide-glycolide) microspheres of uniform size. Shiga K, et al. **J Pharm Pharmacol** 1996 Sep;48(9):891-5

Ocular prosthetics: use of a tissue conditioner material to modify a stock ocular prosthesis. Ow RK, et al. **J Prosthet Dent** 1997 Aug;78(2):218-22

Clinical application of short hydroxylapatite-coated dental implants to the posterior mandible: a five-year survival study. Teixeira ER, et al. **J Prosthet Dent** 1997 Aug; 78(2):166-71

Iloprost in alginate decreases the thrombogenicity of expanded polytetrafluoroethylene. Viscardi PJ, et al. **J Reconstr Microsurg** 1997 May;13(4):303-6

Posterior chamber silicone phakic intraocular lens. Marinho A, et al. **J Refract Surg** 1997 May-Jun;13(3):219-22

Physical barriers in adhesion prevention. Saravelos HG, et al. **J Reprod Med** 1996 Jan;41(1):42-51 (75 ref.)

Prostaglandin E2 modulates monocyte MHC-II (Ia) suppression in biomaterial infection. Henke PK, et al. **J Surg Res** 1997 May;69(2):372-8

Intrathoracic tracheal reconstruction with a collagen-conjugated prosthesis: evaluation of the efficacy of omental wrapping. Teramachi M, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):701-11

Biological levels of aluminium after use of aluminium-containing bone cement in post-otoneurosurgery. Guillard O, et al. **J Trace Elem Med Biol** 1997 Apr;11(1):53-6

Ileocecal valve resistance augmentation using glutaraldehyde cross-linked collagen: a canine model for endoscopic salvage of the leaking Indiana reservoir. Izes JK, et al. **J Urol** 1997 Oct;158(4):1369-71

Life-threatening esophageal fistula: treatment with expandable metallic stents covered by biosynthetic skin. Sakai T, et al. **J Vasc Interv Radiol** 1996 Jul-Aug; 7(4):569-72

A new technique of extracapsular restoration with a tie made of ethylene tetrafluoroethylene (ETFE) for rupture of the cranial cruciate ligament in dogs. Yamada E, et al. **J Vet Med Sci** 1996 Jun;58(6):571-5

Effect of the membrane biocompatibility on nutritional parameters in chronic hemodialysis patients. Parker TF 3rd, et al. **Kidney Int** 1996 Feb;49(2):551-6

Meniscal fixation with an absorbable staple. An experimental study in dogs. Koukoubis TD, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):22-30

Biomechanical effects of e-PTFE implant structure on soft tissue implantation stability: a study in the porcine model. Greene D, et al. **Laryngoscope** 1997 Jul;107(7):957-62

The mechanical properties of catgut in holding and bonding fractured bones. Othman MO, et al. **Med Eng Phys** 1996 Oct;18(7):584-90

Characterizing three-dimensional topography of engineering and biomaterial surfaces by confocal laser scanning and stylus techniques. Wennerberg A, et al. **Med Eng Phys** 1996 Oct;18(7):548-56

Effects of granulocyte-macrophage colony stimulating factor (GM-CSF) on biomaterial-associated staphylococcal infection in mice. Rózalska B, et al. **Microbiol Immunol** 1996;40(12):931-9

Adhesion of Pseudomonas aeruginosa to silicone rubber in a parallel plate flow chamber in the absence and presence of nutrient broth. Habash MB, et al. **Microbiology** 1997 Aug;143 (Pt 8):2569-74

An encapsulation system for the immunoisolation of pancreatic islets. Wang T, et al. **Nat Biotechnol** 1997 Apr; 15(4):358-62

Surface modification of polyethylene by plasma grafting with styrene for enhanced biocompatibility. Geckeler KE, et al. **Naturwissenschaften** 1997 Apr;84(4):150-1

Clinical Relevance of Dialysis Membrane Biocompatibility. Proceedings of a conference. Miami, USA, February 1995. **Nephrol Dial Transplant** 1995;10 Suppl 10:1-59

Dialysis membranes in the year 2000: performance and biocompatibility. Akizawa T, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:16-9 (20 ref.)

Dialysis fluid and water: their roles in biocompatibility. Berland Y, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:45-7 (32 ref.)

Clinical impact of biocompatible dialysis membranes on

patient morbidity and mortality: an appraisal of the evidence. Churchill DN. **Nephrol Dial Transplant** 1995;10 Suppl 10:52–6 (22 ref.)

Dialysis membrane biocompatibility: effects on cellular elements. Coli L, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:27–32

Meltspun cellulose diacetate and polysulfone membranes have the same effect on complement activation and expression of leukocyte adhesion molecules and complement receptors. Dameche L, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:33–8

Lymphocyte subsets in dialyser eluates: a new parameter of bioincompatibility? Grooteman MP, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1073–8

Recent advances in the biocompatibility of haemodialysis membranes. Hakim RM. **Nephrol Dial Transplant** 1995;10 Suppl 10:7–11 (50 ref.)

Membrane biocompatibility in the treatment of acute renal failure: what is the evidence in 1996? Jacobs C. **Nephrol Dial Transplant** 1997 Jan;12(1):38–42 (32 ref.)

In vitro biocompatibility evaluation of a novel bicarbonate-buffered amino-acid solution for peritoneal dialysis. Jörres A, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):543–9

Biocompatible membranes in acute renal failure: prospective case-controlled study [letter] Shaldon S. **Nephrol Dial Transplant** 1997 Jan;12(1):235–6

Leukocyte CD14 and CD45 expression during hemodialysis: polysulfone versus cuprophane. Dhondt AW, et al. **Nephron** 1996;74(2):342–8

A cationic polymer, Eudragit-E, as a new liquid embolic material for arteriovenous malformations. Yamashita K, et al. **Neuroradiology** 1996 May;38 Suppl 1:S151–6

Human dura mater as a wrapping material for hydroxyapatite implantation in the anophthalmic socket. Lee SY, et al. **Ophthalmic Surg Lasers** 1997 May;28(5):428–31

An evaluation of the biocompatibility of intraocular lenses. Majima K. **Ophthalmic Surg Lasers** 1996 Nov;27(11):946–51

Modification of the scleral openings to reduce tissue breakdown and exposure after hydroxyapatite implantations. Lee SY, et al. **Ophthalmologica** 1995; 209(6):319–22

Orderly oriented wire mesh: a novel porous coating. Naidu SH, et al. **Orthopedics** 1997 May;20(5):437–41; discussion 441–2

Activated pyrolytic carbon tip pacing leads: an alternative to steroid-eluting pacing leads? Masini M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1832–5

Analysis and evaluation of filter cartridge extractables for validation in pharmaceutical downstream processing. Reif OW, et al. **PDA J Pharm Sci Technol** 1996 Nov–Dec; 50(6):399–410

Biocompatibility of silver-coated peritoneal dialysis catheter in a porcine model. Fung LC, et al. **Perit Dial Int** 1996 Jul–Aug;16(4):398–405

Peritoneal dialysis solution biocompatibility: inhibitory mechanisms and recent studies with bicarbonate-buffered solutions. Jörres A, et al. **Perit Dial Int** 1997;17 Suppl 2:S42–6 (53 ref.)

In vitro biocompatibility of bicarbonate-based peritoneal dialysis solutions. Topley N. **Perit Dial Int** 1997 Jan–Feb; 17(1):42–7 (45 ref.)

Preparation of biodegradable, surface engineered PLGA nanospheres with enhanced lymphatic drainage and lymph node uptake. Hawley AE, et al. **Pharm Res** 1997 May; 14(5):657–61

Biomaterials science at a crossroads: are current product liability laws in the United States hampering innovation and the development of safer medical implants? Kohn J. **Pharm Res** 1996 Jun;13(6):815–9

Tissue engineering: a new field and its challenges. Langer R. **Pharm Res** 1997 Jul;14(7):840–1

The use of porous granular hydroxyapatite in secondary orbitocranial reconstruction. Burstein FD, et al. **Plast Reconstr Surg** 1997 Sep;100(4):869–74

Use of hydroxyapatite for reconstruction after surgical removal of intraosseous hemangioma in the zygomatic bone. Hirano S, et al. **Plast Reconstr Surg** 1997 Jul; 100(1):86–90 (18 ref.)

Effect of postoperative treatment with a combination of chuangxiong and electret on functional recovery of muscle grafts: an experimental study in the dog. Hua J, et al. **Plast Reconstr Surg** 1996 Oct;98(5):851–5

Clinical and histologic behavior of exposed porous high-density polyethylene implants. Sclafani AP, et al. **Plast Reconstr Surg** 1997 Jan;99(1):41–50

Wear of ultra-high molecular weight polyethylene acetabular cups in a physiological hip joint simulator in the anatomical position using bovine serum as a lubricant. Bigsby RJ, et al. **Proc Inst Mech Eng [H]** 1997;211(3):265–9

Charnley wear model for validation of hip simulators—ball diameter versus polytetrafluoroethylene and polyethylene wear. Clarke IC, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):25–36

The influence of open leaflet geometry on the haemodynamic flow characteristics of polyurethane trileaflet artificial heart valves. Corden J, et al. **Proc Inst Mech Eng [H]** 1996; 210(4):273–87

Analysis of fluid film lubrication in artificial hip joint replacements with surfaces of high elastic modulus. Jin ZM, et al. **Proc Inst Mech Eng [H]** 1997;211(3):247–56

A comparison of the wear of cross-linked polyethylene against itself with the wear of ultra-high molecular weight polyethylene against itself. Joyce TJ, et al. **Proc Inst Mech Eng [H]** 1996;210(4):297–300

The size and shape of particulate polyethylene wear debris in total joint replacements. Kobayashi A, et al. **Proc Inst Mech Eng [H]** 1997;211(1):11–5

The wear of ultra-high molecular weight polyethylene sliding on metallic and ceramic counterfaces representative of current femoral surfaces in joint replacement. Lancaster JG, et al. **Proc Inst Mech Eng [H]** 1997;211(1):17–24

Factors contributing to the wear of polyethylene in clinical practice. Learmonth ID, et al. **Proc Inst Mech Eng [H]** 1997;211(1):49–57

Frictional heating of bearing materials tested in a hip joint wear simulator. Lu Z, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):101–8

The role of polyethylene wear in joint replacement failure. McGee MA, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):65–72

Clinical wear behaviour of ultra-high molecular weight polyethylene cups paired with metal and ceramic ball heads in comparison to metal-on-metal pairings of hip joint replacements. Semlitsch M, et al. **Proc Inst Mech Eng [H]** 1997;211(1):73–88

Mechanistic and morphological origins of ultra-high molecular weight polyethylene wear debris in total joint replacement prostheses [see comments] Wang A, et al. **Proc Inst Mech Eng [H]** 1996;210(3):141–55. Comment in: Proc Inst Mech Eng [H] 1996 ;210(3):137–40.

Wear of the high-density polyethylene socket in total hip arthroplasty and its role in endosteal cavitation. Wroblewski BM. **Proc Inst Mech Eng [H]** 1997; 211(1):109–18

Separation of the arterial wall from blood contact using hydrogel barriers reduces intimal thickening after balloon injury in the rat: the roles of medial and luminal factors in arterial healing. West JL, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13188–93

Lifelikeness in multilayered digital prostheses. Leow EL, et al. **Prosthet Orthot Int** 1997 Apr;21(1):40–51

Different types of dialyzer membranes: does the bio(in)compatibility matter in the treatment of ARF? Vanholder R, et al. **Ren Fail** 1996 May;18(3):471–9 (42 ref.)

Biocompatibility of latex and silicone T tubes in the porcine common bile duct: an experimental study. Koivusalo A, et al. **Res Exp Med (Berl)** 1996;196(1):53–66

Molecular manipulation of microstructures: biomaterials, ceramics, and semiconductors. Stupp SI, et al. **Science** 1997 Aug 29;277(5330):1242–8 (64 ref.)

Which glycosaminoglycans are suitable for antithrombogenic or athrombogenic coatings of biomaterials? Part I: Basic concepts of immobilized GAGs on partially cationized cellulose membrane. Baumann H, et al. **Semin Thromb Hemost** 1997;23(2):203–13

Which glycosaminoglycans are suitable for antithrombogenic or athrombogenic coatings of biomaterials? Part II: Covalently immobilized endothelial cell surface heparan sulfate (ESHS) and heparin (HE) on synthetic polymers and results of animal experiments. Baumann H, et al. **Semin Thromb Hemost** 1997;23(2):215–23

Microencapsulation for cell implants into the central nervous system: the importance of alginate viscosity and related factors. Chen ZP, et al. **Stereotact Funct Neurosurg** 1996; 66(1–3):141–6

Effects of alginate/polyaminoacidic coherent microcapsule transplantation in adult pigs. Calafiore R, et al. **Transplant Proc** 1997 Jun;29(4):2126–7

Effect of molecular weight exclusion of polysulfone fibers on macroencapsulated pig islet xenograft function in diabetic mice. Cheung SC, et al. **Transplant Proc** 1997 Jun; 29(4):2144–5

Preliminary studies of tissue-engineered intestine using isolated epithelial organoid units on tubular synthetic biodegradable scaffolds. Choi RS, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):848–51

The plasminogen-plasmin fibrinolytic system accelerates degradation of alginate-poly-L-lysine-alginate microcapsules in vitro. Hsu BR, et al. **Transplant Proc** 1997 May;29(3):1877–80

Development of biocompatible barium alginate microcapsules. Petruzzo P, et al. **Transplant Proc** 1997 Jun; 29(4):2129–30

Reconstructive surgery of the urethra: a pilot study in the rabbit on the use of hyaluronan benzyl ester (Hyaff-11) biodegradable grafts. Italiano G, et al. **Urol Res** 1997; 25(2):137–42

Assessment of osteogenic potential of the natural origin bioceramics implanted into the human infrabony periodontal defects. Ljušković B, et al. **Vojnosanit Pregl** 1996 Mar–Apr;53(2):91–100 **(Eng, Scr)**

Single-dose pharmacokinetics of teicoplanin during hemodialysis therapy using high-flux polysulfone membranes. Thalhammer F, et al. **Wien Klin Wochenschr** 1997 May 23;109(10):362–5

[Advances in the experimental studies of hydroxylapatite-based composites] Hou W, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):304–6 (24 ref.) **(Chi)**

[Advances in the research on implanted tissue of rhinoplasty materials and its tissue substitutes] Shang S, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):219–21 (29 ref.) **(Chi)**

[Biomaterials and joint prostheses. Resurfacing] Passuti N. **Chirurgie** 1997;122(3):224–8 **(Fre)**

[Tricalcium phosphate and gentamycin. In vitro and in vivo antibiotic diffusion, rehabilitation in bone site in sheep] Prat-Poiret N, et al. **Chirurgie** 1996;121(4):298–308 (36 ref.) (Eng. Abstr.) **(Fre)**

[Cultures of corneal epithelium on hydrogel for synthetic epikeratoplasty] Bourcier T, et al. **J Fr Ophtalmol** 1997; 20(6):444–52 (Eng. Abstr.) **(Fre)**

[2nd generation bio-integrated keratoprosthesis. Implantation in animals] Legeais JM, et al. **J Fr Ophtalmol** 1997; 20(1):42–8 (Eng. Abstr.) **(Fre)**

[Cell culture and orthopedic surgery. II. Medical applications. Diagnosis, biomaterials evaluation, therapy] Anselme K, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(8):724–36 (Eng. Abstr.) **(Fre)**

[The coral orbital floor. Its value in traumatology. The results of a multicenter study of 83 cases] Mercier J, et al. **Rev Stomatol Chir Maxillofac** 1996 Dec;97(6):324–31 (Eng. Abstr.) **(Fre)**

[Osteocartilaginous reconstruction, research and clinical application] Eberlin JL, et al. **Swiss Surg** 1996;2(6):264–8 (Eng. Abstr.) **(Fre)**

[Hemocompatibility of various synthetic granulates] Jung F, et al. **Biomed Tech (Berl)** 1997 Jun;42(6):156–61 (Eng. Abstr.) **(Ger)**

[Biocoral—an alternative bone substitute] Soost F. **Chirurg** 1996 Nov;67(11):1193–6 (Eng. Abstr.) **(Ger)**

[Basic research is handicapped by lack of funding. Bioimplants of ceramics—a vision of the future? (editorial)] Kempf U. **Fortschr Med** 1997 Apr 20;115(11):13–4 **(Ger)**

[Tissue engineering of human cartilage tissue for reconstructive surgery using biocompatible resorbable fibrin gel and polymer carriers] Haisch A, et al. **HNO** 1996 Nov;44(11):624–9 (Eng. Abstr.) **(Ger)**

[Safety aspects in the coating of titanium slide components] Fink U. **Orthopade** 1997 Feb;26(2):160–5 (Eng. Abstr.) **(Ger)**

[Tribological properties of carbon fiber-reinforced plastic. Experimental and clinical results] Früh HJ, et al. **Orthopade** 1997 Feb;26(2):152–9 (Eng. Abstr.) **(Ger)**

[Comparative tribological studies of Chirulen, Hylamer and Enduron combined with A1203] Huber J, et al. **Orthopade** 1997 Feb;26(2):125–8 (Eng. Abstr.) **(Ger)**

[Comparative experimental studies on rigidity, deformation and blunting behavior of various total hip endoprostheses under dynamic load] Seifert H. **Orthopade** 1997 Feb; 26(2):166–80 (Eng. Abstr.) **(Ger)**

[Changes in shape of the McKee-Farrar hip endoprosthesis] Täger G, et al. **Orthopade** 1997 Feb;26(2):142–51 (Eng. Abstr.) **(Ger)**

[In-vivo wear of the slide combinations ceramics-polyethylene as opposed to metal-polyethylene] Zichner L, et al. **Orthopade** 1997 Feb;26(2):129–34 (Eng. Abstr.) **(Ger)**

[Modern galvanized technology. New ways with biocompatible, cementable ceramic restorations] Wirz J, et al. **Schweiz Monatsschr Zahnmed** 1996;106(7):642–54 **(Ger, Fre)**

[Polymer biomaterials (polyphosphazenes) in the repair of peripheral nervous system] Nicoli Aldini N, et al. **Ann Ital Chir** 1996 Nov–Dec;67(6):843–8 (35 ref.) (Eng. Abstr.) **(Ita)**

[Morgagni-Larrey hernia: surgical treatment with Marlex. A case report] Caracò C, et al. **Minerva Chir** 1997 Jan–Feb; 52(1–2):107–11 (Eng. Abstr.) **(Ita)**

[Biodegradable anastomotic rings in colonic emergency surgery] Vita S, et al. **Minerva Chir** 1997 Jan–Feb; 52(1–2):157–9 (Eng. Abstr.) **(Ita)**

[Necessity and validity of standard models for experimental preclinical evaluation of biomaterials. An example of biologic characterization of a hydroxyapatite-based implant material] Caropreso S, et al. **Minerva Stomatol** 1997 Jan–Feb;46(1–2):45–50 (Eng. Abstr.) **(Ita)**

[An experimental study of a newly developed silicone coated membrane oxygenator] Iida M. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):700–10 (Eng. Abstr.) **(Jpn)**

[Recent trends in drug delivery systems using biomaterials] Kurisawa M, et al. **Nippon Rinsho** 1996 Jul;54(7):2004–11 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Current problems and future trends of polymeric biomaterials for orthopaedic surgery] Ikada Y. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jan;70(1):28–39 (28 ref.) **(Jpn)**

[Development of small caliber vascular graft for aorta-coronary bypass grafting] Noishiki Y. **Rinsho Kyobu Geka** 1988 Apr;8(2):201–4 (Eng. Abstr.) **(Jpn)**

[Bio-implants. A medical miracle and economic gold-mine, claiming its price] Lie M. **Tidsskr Nor Laegeforen** 1996 Sep 20;116(22):2651–2 **(Nor)**

[The effect of repeated use of cuprophane and polysulfone dialyzers during hemodialysis on the count of natural killer cells in blood] Liszka M, et al. **Pol Arch Med Wewn** 1997 Mar;97(3):224–31 (Eng. Abstr.) **(Pol)**

[The effect of hemodialysis with frequent use of cuprophan and polysulfone membranes on activation of complement in patients with chronic renal failure] Zukowska-Szczechowska E, et al. **Pol Arch Med Wewn** 1996 Nov;96(5):458–68 (Eng. Abstr.) **(Pol)**

BIOCOMPATIBLE MATERIALS

[Collagen membranes of increased absorption as carriers of antiseptics] Antiszko M, et al. **Polim Med** 1996;26(3–4):21–8 (Eng. Abstr.) **(Pol)**

[Usefulness of selected parameters from the diagnostic laboratory for evaluating absorbed grafting materials] Szymonowicz M, et al. **Polim Med** 1996;26(3–4):29–42 (Eng. Abstr.) **(Pol)**

[Texture of cruciate ligaments as a modifying factors of grafts] Urban J. **Polim Med** 1996;26(3–4):7–19 (Eng. Abstr.) **(Pol)**

[The use of porous polysulfone as a new material for implantation into the orbit] Pisarev VB, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):707–10 **(Rus)**

[Endoprosthesis of the frontonasal anastomosis after extranasal radical operations using biocompatible tubular polymeric materials] Klochikhin AL, et al. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):18–9 (Eng. Abstr.) **(Rus)**

[The use of a polyphosphazene prosthesis for the frontonasal anastomosis in the surgical treatment of acute and chronic inflammatory diseases of the frontal sinus (a preliminary report)] Lapchenko AS, et al. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):43 (Eng. Abstr.) **(Rus)**

[Thoracic reconstruction with polytetrafluoroethylene prosthesis] González Muñoz JI, et al. **Arch Bronconeumol** 1997 Jan;33(1):27–30 (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

Evaluation of hylan b gel as a soft–tissue augmentation implant material. Piacquadio D, et al. **J Am Acad Dermatol** 1997 Apr;36(4):544–9

Hydroxyapatite in revision of total hip replacements with massive acetabular defects: 4– to 10–year clinical results. Oonishi H, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):87–92

Preparation and evaluation of chitosan microspheres containing bisphosphonates. Patashnik S, et al. **J Drug Target** 1997;4(6):371–80

Endoluminal ultrasonographic and histologic evaluation of periurethral collagen injection. Rivas DA, et al. **J Endourol** 1996 Feb;10(1):61–6

Biodegradable injectable implant systems for long term drug delivery using poly (lactic–co–glycolic) acid copolymers. Chandrashekar G, et al. **J Pharm Pharmacol** 1996 Jul; 48(7):669–74

GAX 65: new injectable cross–linked collagen for the endoscopic treatment of vesicoureteral reflux––a double–blind study evaluating its efficiency in children. Frey P, et al. **J Urol** 1997 Sep;158(3 Pt 2):1210–2

Collagen injection therapy in the treatment of urinary incontinence. Winters JC, et al. **Tech Urol** 1996 Summer; 2(2):59–64

Transurethral collagen injection for treatment of postprostatectomy urinary incontinence in men. Griebling TL, et al. **Urology** 1997 Jun;49(6):907–12 (25 ref.)

[Endoscopic treatment of vesicoureteral reflux in adults with bovine collagen] Polito M, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:55–9 (Eng. Abstr.) **(Ita)**

[Experimental study of the effect of physiologically active combinations on the stimulation of reparative osteogenesis] Mansurova LA, et al. **Dokl Akad Nauk** 1996 Nov; 351(3):416–8 **(Rus)**

ADVERSE EFFECTS

Nafamostat mesilate reduces blood–foreign surface reactions similar to biocompatible materials. Usui A, et al. **Ann Thorac Surg** 1996 Nov;62(5):1404–11

Hydrogel exoplant fragmentation 10 years after scleral buckling surgery [letter] Hwang KI, et al. **Arch Ophthalmol** 1997 Sep;115(9):1205–6

Unacceptable biodegradation of polyethylene in vivo. Brach del Prever E, et al. **Biomaterials** 1996 May;17(9):873–8

Genetically engineered smooth muscle cells as linings to improve the biocompatibility of cardiovascular prostheses. Scott–Burden T, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II235–8

Biocompatibility: complement as mediator of tissue damage and as indicator of incompatibility. Mollnes TE. **Exp Clin Immunogenet** 1997;14(1):24–9 (26 ref.)

Implantable materials and infection. Williams DF. **Injury** 1996;27 Suppl 3:SC1–4 (9 ref.)

Osteolysis caused by polymethylmethacrylate (PMMA). Eftekhar NS. **Instr Course Lect** 1994;43:263–75 (53 ref.)

Current concepts in orthopaedic biomaterials and implant fixation. Friedman RJ, et al. **Instr Course Lect** 1994; 43:233–55 (193 ref.)

Osteolysis due to particle wear debris following total hip arthroplasty: the role of high–density polyethylene. Wroblewski BM. **Instr Course Lect** 1994;43:289–94 (12 ref.)

The risk of infection of three synthetic materials used in rectopexy with or without colonic resection for rectal prolapse. Athanasiadis S, et al. **Int J Colorectal Dis** 1996; 11(1):42–4

Long–term evaluation of degradation and foreign–body reaction of subcutaneously implanted poly(DL–lactide–epsilon–caprolactone). den Dunnen WF, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):337–46

New method for evaluation of hard contact lens materials with regard to cell injury by dynamic contact. Iguchi I, et al. **J Biomed Mater Res** 1996 Nov;32(3):349–54

A comparison of the inflammatory potential of particulates derived from two composite materials. Moore R, et al. **J Biomed Mater Res** 1997 Feb;34(2):137–47

In vivo biocompatibility study of ABA triblock copolymers consisting of poly(L–lactic–co–glycolic acid) A blocks attached to central poly(oxyethylene) B blocks. Ronneberger B, et al. **J Biomed Mater Res** 1996 Jan; 30(1):31–40

A cone–and–plate device for the investigation of platelet biomaterial interactions. Skarja GA, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):427–38

Tumor necrosis factor–alpha and interleukin–6 release from white blood cells induced by different graft materials in vitro are affected by pentoxifylline and iloprost. Swartbol P, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):400–6

Dialysis membrane biocompatibility and mortality and morbidity in acute renal failure [editorial] Himmelfarb J, et al. **J Nephrol** 1997 Mar–Apr;10(2):63–4

Stricture incidence related to suture material in hypospadias surgery. DiSandro M, et al. **J Pediatr Surg** 1996 Jul; 31(7):881–4

Calcification potential of small intestinal submucosa in a rat subcutaneous model. Owen TJ, et al. **J Surg Res** 1997 Aug; 71(2):179–86

The 'first–use syndrome' revisited: a dialysis centre's perspective. Ing TS, et al. **Nephrol Dial Transplant** 1995; 10 Suppl 10:39–44 (66 ref.)

Influence of membranes on morbidity. Locatelli F. **Nephrol Dial Transplant** 1996;11 Suppl 2:116–20 (16 ref.)

Cellular proliferation and second messenger formation altered by dialysis membranes. Pacini S, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):500–4

The role of dialysis membranes in infection. Vanholder R, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:101–3

Effects of haemodialysis on coagulation and platelets: are we measuring membrane biocompatibility? Ward RA. **Nephrol Dial Transplant** 1995;10 Suppl 10:12–17 (46 ref.)

Complications of motility peg placement for the hydroxyapatite orbital implant. Edelstein C, et al. **Ophthalmology** 1997 Oct;104(10):1616–21

Complications of hydroxyapatite orbital implants [letter] Massry GG, et al. **Ophthalmology** 1997 Sep;104(9):1368–9

Complications of hydroxyapatite orbital implants. A review of 100 consecutive cases and a comparison of Dexon mesh (polyglycolic acid) with scleral wrapping. Oestreicher JH, et al. **Ophthalmology** 1997 Feb;104(2):324–9 (20 ref.)

Failed implants and multiple operations. Milam SB. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):156–62 (103 ref.)

Bilateral mandibular radiopacities with mucosal masses [clinical conference] Will MJ, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):607–9

Temporomandibular joint devices: treatment factors and outcomes. Wolford LM. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):143–9 (149 ref.)

The influence of biomaterials on inflammatory responses to cardiopulmonary bypass. Courtney JM, et al. **Perfusion** 1996 May;11(3):220–8 (93 ref.)

Review on the multifactorial aspects of bioincompatibility in CPB. Daniel S. **Perfusion** 1996 May;11(3):246–55 (32 ref.)

Biocompatibility in heparin–coated extracorporeal circuits. Hsu LC. **Perfusion** 1996 May;11(3):256–63 (32 ref.)

Clinical evidence of improved biocompatibility using heparin–coated surfaces. Matheve C. **Perfusion** 1996 May; 11(3):264–9 (14 ref.)

Evaluation of Carmeda bioactive surface (CBAS), Duraflo II and a novel nonspecific protease–modified surface using a new in vitro model simulating cardiopulmonary bypass. Yii M, et al. **Perfusion** 1996 May;11(3):229–40

Coral in malar augmentation: complications in our experience [letter] Santanchè P, et al. **Plast Reconstr Surg** 1997 Jan; 99(1):266–8

The pathogenesis of osteolysis in two different cementless hip replacements. Learmonth ID, et al. **Proc Inst Mech Eng [H]** 1997;211(1):59–63

Assessing the role of the biomaterial Aquavene in patient reactions to Landmark midline catheters. Silverstein B, et al. **Regul Toxicol Pharmacol** 1997 Feb;25(1):60–7 (46 ref.)

[Toxic aluminum encephalopathy. Predominant involvement of the limbic system on MRI] Lévêque C, et al. **J Neuroradiol** 1996 Dec;23(3):168–72 (Eng. Abstr.) **(Fre)**

[The structural characteristics of the bony tissue at the surface of an implant with hydroxyapatite spray–coated with excimer and CO2 lasers] Volozhin AI, et al. **Stomatologiia (Mosk)** 1996;75(6):4–7 (Eng. Abstr.) **(Rus)**

ANALYSIS

Application of the low vacuum scanning electron microscope to the study of biomaterials and mammalian cells. Sammons R, et al. **Biomaterials** 1997 Jan;18(1):81–6

Pitfalls and outcomes from accelerated wear testing of mechanical heart valves. Campbell A, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S124–32; discussion 144–8

Material properties, biocompatibility, and wear resistance of the Medtronic pyrolytic carbon. Leuer LH, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S105–9; discussion 110

CHEMICAL SYNTHESIS

Synthesis of a new photoreactive derivative of dipyridamole and its use in the manufacture of artificial surfaces with low thrombogenicity. Aldenhoff YB, et al. **Bioconjug Chem** 1997 May–Jun;8(3):296–303

Synthesis and characterization of segmented polyurethanes based on amphiphilic polyether diols. Lan PN, et al. **Biomaterials** 1996 Dec;17(23):2273–80

The biomimetics of enamel: a paradigm for organized biomaterials synthesis. Mann S. **Ciba Found Symp** 1997; 205:261–9; discussion 269–74

Artificial tooth enamel in the works [news] Mark AM. **J Am Dent Assoc** 1997 Mar;128(3):278, 282

Synthesis and characterization of biodegradable polyrotaxane as a novel supramolecular–structured drug carrier. Ooya T, et al. **J Biomater Sci Polym Ed** 1997;8(6):437–55

Biological activities of new poly(N–1–adamantylmaleimide) and poly(N–1–diamantylmaleimide). Wang JJ, et al. **J Biomater Sci Polym Ed** 1996;7(10):905–15

Fabrication and selective surface modification of 3–dimensionally textured biomedical polymers from etched silicon substrates. Kapur R, et al. **J Biomed Mater Res** 1996 Winter;33(4):205–16

Integrated system for preparation of bone cement and effects on cement quality and environment. Müller–Wille P, et al. **J Biomed Mater Res** 1997 Summer;38(2):135–42

Development of sterically stabilized poly(isobutyl 2–cyanoacrylate) nanoparticles by chemical coupling of poly(ethylene glycol). Peracchia MT, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):317–26

Preparation and properties of SBS–g–DMAEMA copolymer membrane by ultraviolet radiation. Yang JM, et al. **J Biomed Mater Res** 1997 May;35(2):175–80

The engineering of biomaterials exhibiting recognition and specificity. Ratner BD. **J Mol Recognit** 1996 Sep–Dec; 9(5–6):617–25 (74 ref.)

Synthesis, characterization and biocompatibility of PEGA resins. Auzanneau FI, et al. **J Pept Sci** 1995 Jan–Feb; 1(1):31–44

Preparation and characterization of a biodegradable microparticle antigen/cytokine delivery system. Rafferty DE, et al. **Vaccine** 1996 Apr;14(6):532–8

[The synthesis and study of calcium hydroxyapatite–based materials] Arsen'ev PA, et al. **Stomatologiia (Mosk)** 1996; 75(5):74–9 (20 ref.) (Eng. Abstr.) **(Rus)**

[The synthesis, properties and use of calcium hydroxyapatite] Orlovskiĭ VP, et al. **Stomatologiia (Mosk)** 1996;75(5):68–73 (61 ref.) **(Rus)**

CHEMISTRY

Stability of trypsin immobilized on inorganic orthopedic biomaterials. Holt LJ, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):613–20

Biocompatibility of heparin–coated circuits in pediatric cardiopulmonary bypass. Kagisaki K, et al. **Artif Organs** 1997 Jul;21(7):836–40

Release behavior of poly(lactic acid–co–glycolic acid) implants containing phosphorothioate oligodeoxynucleotide. Yamakawa I, et al. **Biol Pharm Bull** 1997 Apr;20(4):455–9

Synthesis and characterization of pH–sensitive poly(organophosphazene) hydrogels. Allcock HR, et al. **Biomaterials** 1996 Dec;17(23):2295–302

Morphology of rod stock and compression–moulded sheets of ultra–high–molecular–weight polyethylene used in orthopaedic implants. Bellare A, et al. **Biomaterials** 1996 Dec;17(24):2325–33

Bioactivity of 1.25CaO.SiO2 glass: an FTIR and X–ray study on powdered samples. Branda F, et al. **Biomaterials** 1996 Dec;17(23):2247–51

Water vapour–treated hydroxyapatite coatings after plasma spraying and their characteristics. Cao Y, et al. **Biomaterials** 1996 Feb;17(4):419–24

Effect of cross–linking agents on the dynamic mechanical properties of hydrogel blends of poly(acrylic acid)–poly(vinyl alcohol–vinyl acetate). Cauich–Rodriguez JV, et al. **Biomaterials** 1996 Dec;17(23):2259–64

Heparin–like functionalized polymer surfaces: discrimination between catalytic and adsorption processes during the course of thrombin inhibition. Charef S, et al. **Biomaterials** 1996 May;17(9):903–12

Surface characterization of C/Ti–6Al–4V coating treated with ion beam. Demri B, et al. **Biomaterials** 1997 Feb; 18(4):305–10

Effect of the alginate composition on the biocompatibility of alginate–polylysine microcapsules. De Vos P, et al. **Biomaterials** 1997 Feb;18(3):273–8

Biodegradable bone cement compositions based on acrylate and epoxide terminated poly(propylene fumarate) oligomers and calcium salt compositions. Domb AJ, et al. **Biomaterials** 1996 Feb;17(4):411–7

Erosion of composite polymer matrices. Göpferich A. **Biomaterials** 1997 Mar;18(5):397–403

Surface plasmon resonance for real time in situ analysis of protein adsorption to polymer surfaces. Green RJ, et al. **Biomaterials** 1997 Mar;18(5):405–13

Nanotechnology for biomaterials engineering: structural characterization of amphiphilic polymeric nanoparticles by 1H NMR spectroscopy. Hrkach JS, et al. **Biomaterials** 1997 Jan;18(1):27–30

Investigation of the dissolution of the bioceramic hydroxyapatite in the presence of titanium ions using ToF-SIMS and XPS. Leadley SR, et al. **Biomaterials** 1997 Feb;18(4):311-6

Characterization of calcium phosphates precipitated from simulated body fluid of different buffering capacities. Li J, et al. **Biomaterials** 1997 May;18(10):743-7

In vitro calcium phosphate formation on a natural composite material, bamboo. Li SH, et al. **Biomaterials** 1997 Mar; 18(5):389-95

Hydrolysis and phase transition of alpha-tricalcium phosphate. Li Y, et al. **Biomaterials** 1997 May;18(10):737-41

Influence of sterilization processes on poly(epsilon-caprolactone) nanospheres. Masson V, et al. **Biomaterials** 1997 Feb;18(4):327-35

Novel approach to fabricate porous sponges of poly(D,L-lactic-co-glycolic acid) without the use of organic solvents. Mooney DJ, et al. **Biomaterials** 1996 Jul; 17(14):1417-22

Effects of processing conditions and in vitro ageing on the physical properties of Biomer. Orang F, et al. **Biomaterials** 1996 Mar;17(5):485-90

Influence of gamma-irradiation sterilization and temperature on the fracture toughness of ultra-high-molecular-weight polyethylene. Pascaud RS, et al. **Biomaterials** 1997 May; 18(10):727-35

Covalent linkage of recombinant hirudin to poly(ethylene terephthalate) (Dacron): creation of a novel antithrombin surface. Phaneuf MD, et al. **Biomaterials** 1997 May; 18(10):755-65

Effect of hydroxyapatite thickness on metal ion release from Ti6Al4V substrates. Sousa SR, et al. **Biomaterials** 1996 Feb; 17(4):397-404

Processing and mechanical properties of hydroxyapatite reinforced with hydroxyapatite whiskers. Suchanek W, et al. **Biomaterials** 1996 Sep;17(17):1715-23

Influence of annealing temperature on RF magnetron sputtered calcium phosphate coatings. van Dijk K, et al. **Biomaterials** 1996 Feb;17(4):405-10

Stability of radiofrequency magnetron sputtered calcium phosphate coatings under cyclically loaded conditions. Wolke JG, et al. **Biomaterials** 1997 Mar;18(6):483-8

Improved bonding strength of polyethylene/polymethylmetacrylate bone cement--a preliminary study. Khang G, et al. **Biomed Mater Eng** 1996; 6(5):335-44

Thermomechanical analysis of shape memory devices. Trochu F, et al. **Biomed Mater Eng** 1996;6(6):389-403

Preparation and characterization of double layered coating composed of hydroxyapatite and perovskite by thermal decomposition. Zhou P, et al. **Biomed Mater Eng** 1997; 7(1):67-81

Bioresorbable implants--practical considerations. Pietrzak WS, et al. **Bone** 1996 Jul;19(1 Suppl):109S-119S

Biologic responses of autogenous bone and beta-tricalcium phosphate ceramics transplanted into bone defects to orthodontic forces. Hossain MZ, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):277-83

Hydrophobic derivatives of chitosan: characterization and rheological behaviour. Desbrières J, et al. **Int J Biol Macromol** 1996 Jul;19(1):21-8

A review of material properties of biodegradable and bioresorbable polymers and devices for GTR and GBR applications. Hutmacher D, et al. **Int J Oral Maxillofac Implants** 1996 Sep-Oct;11(5):667-78 (73 ref.)

Microstructures of plasma-sprayed hydroxyapatite-coated Ti-6Al-4V dental implants. Tufekci E, et al. **Int J Oral Maxillofac Implants** 1997 Jan-Feb;12(1):25-31

Adaptive crystal formation in normal and pathological calcifications in synthetic calcium phosphate and related biomaterials. Daculsi G, et al. **Int Rev Cytol** 1997; 172:129-91 (326 ref.)

Polymers of 1-vinyl-2-pyrrolidinone as potential vitreous substitutes: physical selection. Hong Y, et al. **J Biomater Appl** 1996 Oct;11(2):135-81

Biodegradable polyurethanes: biodegradable low adherence films for the prevention of adhesions after surgery. Rehman IU. **J Biomater Appl** 1996 Oct;11(2):182-257

Surface modification of titanium based biomaterials by ion beam. Xianghuai L, et al. **J Biomater Appl** 1996 Apr; 10(4):330-7

Surface modification of chitosan membranes by complexation-interpenetration of anionic polysaccharides for improved blood compatibility in hemodialysis. Amiji MM. **J Biomater Sci Polym Ed** 1996;8(4):281-98

X-ray photoelectron spectroscopy (XPS) surface analysis of HEMA-MMA microcapsules. Babensee JE, et al. **J Biomater Sci Polym Ed** 1997;8(9):655-65

Controlled release of cytarabine from poly(2-hydroxyethyl methacrylate-co-N-vinyl-2-pyrrolidone) hydrogels. Blanco MD, et al. **J Biomater Sci Polym Ed** 1997; 8(9):709-19

Neural cell pattern formation on glass and oxidized silicon surfaces modified with poly(N-isopropylacrylamide). Bohanon T, et al. **J Biomater Sci Polym Ed** 1996;8(1):19-39

Comparison between in vitro and in vivo UHMW-PE degradation. Carotenuto G, et al. **J Biomater Sci Polym Ed** 1997;8(6):481-91

Surface characterisation of collagen-based bioartificial polymeric materials. Cascone MG, et al. **J Biomater Sci Polym Ed** 1996;7(10):917-24

Mechanical properties of dense polylactic acid structures fabricated by three dimensional printing. Giordano RA, et al. **J Biomater Sci Polym Ed** 1996;8(1):63-75

Effect of reduced protein adsorption on platelet adhesion at the phospholipid polymer surfaces. Iwasaki Y, et al. **J Biomater Sci Polym Ed** 1996;8(2):151-63

Protein adsorption and platelet adhesion on polymer surfaces having phospholipid polar group connected with oxyethylene chain. Iwasaki Y, et al. **J Biomater Sci Polym Ed** 1996;8(2):91-102

Detection of specific plasma proteins on surfaces by immunospecific adhesion of dyed polystyrene beads. Mandrusov E, et al. **J Biomater Sci Polym Ed** 1996; 8(1):1-18

Numerical conversion of transient to harmonic response functions for linear viscoelastic materials. Buschmann MD. **J Biomech** 1997 Feb;30(2):197-202

A versatile three-iodine molecular building block leading to new radiopaque polymeric biomaterials. Benzina A, et al. **J Biomed Mater Res** 1996 Nov;32(3):459-66

Effect of fibronectin amount and conformation on the strength of endothelial cell adhesion to HEMA/EMA copolymers. Burmeister JS, et al. **J Biomed Mater Res** 1996 Jan;30(1):13-22

Effect of methacrylic acid:methyl methacrylate monomer ratios on polymerization rates and properties of polymethyl methacrylates. Chen T, et al. **J Biomed Mater Res** 1997 Aug;36(2):190-9

Assessment of wrought ASTM F1058 cobalt alloy properties for permanent surgical implants. Clerc CO, et al. **J Biomed Mater Res** 1997 Fall;38(3):229-34

Characterization and development of RGD-peptide-modified poly(lactic acid-co-lysine) as an interactive, resorbable biomaterial. Cook AD, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):513-23

Comparative study of the corrosion behavior of MA-956 and conventional metallic biomaterials. Escudero ML, et al. **J Biomed Mater Res** 1996 Jul;31(3):313-7

Analysis of a biodegradable composite for bone healing. Flahiff CM, et al. **J Biomed Mater Res** 1996 Nov; 32(3):419-24

Importance of microanalysis in understanding mechanism of transformation in active glassy biomaterials. Gatti AM, et al. **J Biomed Mater Res** 1996 Aug;31(4):475-80

Solvent environment modulates effects of glutaraldehyde crosslinking on tissue-derived biomaterials. Gratzer PF, et al. **J Biomed Mater Res** 1996 Aug;31(4):533-43

Analysis of polyethylene wear debris using micro-Raman spectroscopy: a report on the presence of beta-carotene. Hahn DW, et al. **J Biomed Mater Res** 1997 Apr;35(1):31-7

Glutaraldehyde crosslinking of collagen substrates inhibits degradation in skin substitutes grafted to athymic mice. Harriger MD, et al. **J Biomed Mater Res** 1997 May; 35(2):137-45

Properties of epsilon-caprolactone/DL-lactide (epsilon-CL/DL-LA) copolymers with a minor epsilon-CL content. Hiljanen-Vainio MP, et al. **J Biomed Mater Res** 1997 Jan;34(1):39-46

Randomly phosphorylated polystyrene derivatives interact with RNA polymerase II transcription factors: part I. Imbert E, et al. **J Biomed Mater Res** 1997 Mar 15; 34(4):417-25

Improved blood compatibility of segmented polyurethanes by polymeric additives having phospholipid polar groups. I. Molecular design of polymeric additives and their functions. Ishihara K, et al. **J Biomed Mater Res** 1996 Nov; 32(3):391-9

Improved blood compatibility of segmented polyurethane by polymeric additives having phospholipid polar group. II. Dispersion state of the polymeric additive and protein adsorption on the surface. Ishihara K, et al. **J Biomed Mater Res** 1996 Nov;32(3):401-8

Characterization of experimental composite biomaterials. Jones DW, et al. **J Biomed Mater Res** 1996 Summer; 33(2):89-100

Fabrication and selective surface modification of 3-dimensionally textured biomedical polymers from etched silicon substrates. Kapur R, et al. **J Biomed Mater Res** 1996 Winter;33(4):205-16

Preparation of bioactive Ti and its alloys via simple chemical surface treatment. Kim HM, et al. **J Biomed Mater Res** 1996 Nov;32(3):409-17

Plasma protein adsorption and platelet adhesion onto comb-like PEO gradient surfaces. Lee JH, et al. **J Biomed Mater Res** 1997 Jan;34(1):105-14

The bone-bonding polymer Polyactive 80/20 induces hydroxycarbonate apatite formation in vitro. Li P, et al. **J Biomed Mater Res** 1997 Jan;34(1):79-86

In vivo wear of Ti6Al4V femoral heads: a retrieval study. McGovern TE, et al. **J Biomed Mater Res** 1996 Nov; 32(3):447-57

Fracture toughness of CoCr alloy-PMMA cement interface. Mann KA, et al. **J Biomed Mater Res** 1997 Fall;38(3):211-9

An in vivo study of the biodegradation of the hydrophilic Mitrathane. Maurin N, et al. **J Biomed Mater Res** 1997 Jan;34(1):73-8

Effects of Ca and H2O2 added to RPMI on the fretting corrosion of Ti6Al4V. Montague A, et al. **J Biomed Mater Res** 1996 Dec;32(4):519-26

Kinetics of in vivo degradation of sepiolite-collagen complexes: effect of glutaraldehyde treatment. Olmo N, et al. **J Biomed Mater Res** 1996 Jan;30(1):77-84

Thermomechanical investigation of poly(methylmethacrylate) containing an organobismuth radiopacifying additive. Rawls HR, et al. **J Biomed Mater Res** 1996 Jul;31(3):339-43

Development and characterization of a biodegradable polyphosphate. Renier ML, et al. **J Biomed Mater Res** 1997 Jan;34(1):95-104

The application of ion beam analysis to calcium phosphate-based biomaterials. Russell SW, et al. **J Biomed Mater Res** 1996 Feb;30(2):165-74

The effect of strain state on the biostability of a poly(etherurethane urea) elastomer. Schubert MA, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):319-28

Vitamin E as an antioxidant for poly(etherurethane urea): in vivo studies. Student Research Award in the Doctoral Degree Candidate Category, Fifth World Biomaterials Congress (22nd Annual Meeting of the Society for Biomaterials), Toronto, Canada, May 29-June 2, 1996. Schubert MA, et al. **J Biomed Mater Res** 1996 Dec; 32(4):493-504

Comparison of two antioxidants for poly(etherurethane urea) in an accelerated in vitro biodegradation system. Schubert MA, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):493-505

Role of oxygen in biodegradation of poly(etherurethane urea) elastomers. Schubert MA, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):519-30

Physicochemical properties and platelet interactions of segmented polyurethanes containing sulfonate groups in the hard segment. Skarja GA, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):439-55

Surface instability of calcium phosphate ceramics in tissue culture medium and the effect on adhesion and growth of anchorage-dependent animal cells. Suzuki T, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):507-17

Effects of magnesium on the formation of calcium-deficient hydroxyapatite from CaHPO4.2H2O and Ca4(PO4)2O. TenHuisen KS, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):306-14

Hydroxyapatite modified chitin as potential hard tissue substitute material. Wan AC, et al. **J Biomed Mater Res** 1997 Fall;38(3):235-41

Effects of metal salts on poly(DL-lactide-co-glycolide) polymer hydrolysis. Zhang Y, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):531-8

Surface spectroscopy of apatitic materials: limitations and concerns. Wieliczka DM, et al. **J Dent Res** 1996 Nov; 75(11):1865-70

Chitosan microcapsules as controlled release systems for insulin. Aiedeh K, et al. **J Microencapsul** 1997 Sep-Oct; 14(5):567-76

Effect of cellulose derivatives on alginate microspheres prepared by emulsification. Chan LW, et al. **J Microencapsul** 1997 Sep-Oct;14(5):545-55

Production of BCG alginate-PLL microcapsules by emulsification/internal gelation. Esquisabel A, et al. **J Microencapsul** 1997 Sep-Oct;14(5):627-38

Sustained-release of oxytetracycline from chitosan microspheres prepared by interfacial acylation and spray hardening methods. Mi FL, et al. **J Microencapsul** 1997 Sep-Oct;14(5):577-91

Preparation and scanning electronic microscopy study of chitosan/polyvinyl (alcohol)-encapsulated crude urease extract. Miguez MJ, et al. **J Microencapsul** 1997 Sep-Oct; 14(5):639-46

Evaluation of process parameters involved in chitosan microsphere preparation by the o/w/o multiple emulsion method. Pavanetto F, et al. **J Microencapsul** 1996 Nov-Dec;13(6):679-88

Porous polysulfone coated with platelet-derived growth factor-BB stimulates proliferation of human periodontal ligament fibroblasts. Mailhot JM, et al. **J Periodontol** 1996 Oct;67(10):981-5

Elution of six antibiotics bonded to polyethylene vascular grafts sealed with three proteins. Galdbart JO, et al. **J Surg Res** 1996 Dec;66(2):174-8

Dynamic heat capacity changes of laser-irradiated type I collagen films. Si MS, et al. **Lasers Surg Med** 1996; 19(1):17-22

Polyvinyl alcohol cryogel: an ideal phantom material for MR studies of arterial flow and elasticity. Chu KC, et al. **Magn Reson Med** 1997 Feb;37(2):314-9

NiTi shape memory alloys treated by plasma-polymerized tetrafluoroethylene. A physicochemical and electrochemical characterization. Yahia LH, et al. **Med Prog Technol** 1996-97;21(4):187-93

Influence of surface free energies and cohesion parameters on pharmaceutical material interaction parameters-theoretical simulations. Barra J, et al. **Pharm Res** 1996 Nov;13(11):1746-51

Novel bioadhesive chitosan-EDTA conjugate protects leucine enkephalin from degradation by aminopeptidase N. Bernkop-Schnürch A, et al. **Pharm Res** 1997 Jul; 14(7):917-22

In vitro/in vivo comparison of drug release and polymer erosion from biodegradable P(FAD-SA) polyanhydrides--a noninvasive approach by the combined use of electron paramagnetic resonance spectroscopy and nuclear magnetic resonance imaging. Mäder K, et al. **Pharm Res** 1997 Jun;14(6):820-6

Biocompatibility issues of implantable drug delivery systems. Park H, et al. **Pharm Res** 1996 Dec;13(12):1770-6 (58 ref.)

Systematic analytic procedure for identification of unknown

medicaments in biological material. Večerková J. **Sb Lek** 1994;95(4):357–61

Heparin–chitosan complexes stimulate wound healing in human skin. Kratz G, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):119–23

Preparation and characterization of a biodegradable microparticle antigen/cytokine delivery system. Rafferty DE, et al. **Vaccine** 1996 Apr;14(6):532–8

[A sanitary chemical evaluation of polyether urethane endoprostheses] Budnikov VI, et al. **Gig Sanit** 1997 Mar–Apr;(2):48–9 **(Rus)**

[Biologically active synthetic calcium phosphate–containing materials for dentistry] Leont'ev VK. **Stomatologiia (Mosk)** 1996;75(5):4–6 **(Rus)**

HISTORY

[Professor Henryk Kus. Postmortem remembrance] Rutowski R. **Polim Med** 1996;26(3–4):3–6 **(Pol)**

ISOLATION & PURIFICATION

Biocompatibility of mannuronic acid–rich alginates. Klöck G, et al. **Biomaterials** 1997 May;18(10):707–13

Purity and stability assessment of a semi–solid poly(ortho ester) used in drug delivery systems. Merkli A, et al. **Biomaterials** 1996 May;17(9):897–902

Protein release from poly(epsilon–caprolactone) microspheres prepared by melt encapsulation and solvent evaporation techniques: a comparative study. Jameela SR, et al. **J Biomater Sci Polym Ed** 1997;8(6):457–66

Calcium effect on the membrane preparation of segmented poly(ether/urethane/amide) (PEUN) as a biomedical material. Kawashima K, et al. **J Biomater Sci Polym Ed** 1997;8(6):467–80

METABOLISM

Absorbable implants in the treatment of distal humeral fractures in adolescents and adults. Pelto–Vasenius K, et al. **Acta Orthop Belg** 1996;62 Suppl 1:93–102

A newly developed silicone–coated membrane oxygenator for long–term cardiopulmonary bypass and cardiac support. Iida M, et al. **Artif Organs** 1997 Jul;21(7):755–9

Using titanium plate or meshplate for chest wall reconstruction: report of 6 cases and literature review. Luh SP, et al. **Artif Organs** 1996 Dec;20(12):1295–8 (13 ref.)

Clinical trial of new polyurethane vascular grafts for hemodialysis: compared with expanded polytetrafluoroethylene grafts. Nakagawa Y, et al. **Artif Organs** 1995 Dec;19(12):1227–32

Simple evaluation method of biocompatibility of artificial oxygenator hollow fiber. Nishida H, et al. **Artif Organs** 1996 Dec;20(12):1292–4

The effect of blood contact and reuse on the transport properties of high–flux dialysis membranes. Kunas GA, et al. **ASAIO J** 1996 Jul–Aug;42(4):288–94

Clinical study of platelet function and coagulation/fibrinolysis with Duraflo II heparin coated cardiopulmonary bypass equipment. Nakajima T, et al. **ASAIO J** 1996 Jul–Aug;42(4):301–5

Surface analysis of clinically used expanded PTFE endoscopic tubing treated by the STERIS PROCESS. Tucker RC, et al. **ASAIO J** 1996 Jul–Aug;42(4):306–13

Phagocytosis of chemically modified carbon materials. Czajkowska B, et al. **Biomaterials** 1997 Jan;18(1):69–74

An investigation of the parameters influencing the bioadhesive properties of Myverol 18–99/water gels. Geraghty PB, et al. **Biomaterials** 1997 Jan;18(1):63–7

Non–invasive in vivo characterization of release processes in biodegradable polymers by low–frequency electron paramagnetic resonance spectroscopy. Mader K, et al. **Biomaterials** 1996 Feb;17(4):457–61

Acidity near eroding polylactide–polyglycolide in vitro and in vivo in rabbit tibial bone chambers. Martin C, et al. **Biomaterials** 1996 Dec;17(24):2373–80

Cell growth on cordierite: an approach to the identification of reliable supports for continuous–flow solid–bed reactors. Orlandi L, et al. **Biomaterials** 1997 Jul;18(14):955–61

Effect of chemical structure of hydrogels on the adhesion and phenotypic characteristics of human monocytes such as expression of galectins and other carbohydrate–binding sites. Smetana K Jr, et al. **Biomaterials** 1997 Jul; 18(14):1009–14

Evaluation of an epoxy–fixed biological patch with ionically bound heparin as a pericardial substitute. Sung HW, et al. **Biomaterials** 1996 Sep;17(17):1693–701

Blood contact with artificial surfaces during BVAD support. Hasper D, et al. **Int J Artif Organs** 1996 Oct;19(10):590–6

The role of physicochemical properties of biomaterials and bacterial cell adhesion in vitro. Kitano T, et al. **Int J Artif Organs** 1996 Jun;19(6):353–8

Beta 2–microglobulin removal by synthetic dialysis membranes. Mechanisms and kinetics of the molecule. Ronco C, et al. **Int J Artif Organs** 1997 Mar;20(3):136–43

Characterization of the resistance of pyrolytic carbon to abrasive wear. Vitale E, et al. **Int J Artif Organs** 1995 Dec; 18(12):777–85

Permeability and adsorption capacity of dialysis membranes to lipid A. Weber C, et al. **Int J Artif Organs** 1997 Mar; 20(3):144–52

Changes in binding affinity of a monoclonal antibody to a platelet binding domain of fibrinogen adsorbed to biomaterials. Grunkemeier J, et al. **J Biomater Sci Polym Ed** 1996;8(3):189–209

Platelet interactions with plasma–polymerized ethylene oxide and N–vinyl–2–pyrrolidone films and linear poly(ethylene oxide) layer. Kamath KR, et al. **J Biomater Sci Polym Ed** 1996;7(11):977–88

A new haemocompatible phospholipid polyurethane based on hydrogenated poly(isoprene) soft segment. Li YJ, et al. **J Biomater Sci Polym Ed** 1996;7(10):893–904

Improved blood compatibility of drawn polyamide sheets. Tanaka H, et al. **J Biomater Sci Polym Ed** 1996;8(3):211–24

Lysosomal degradability of poly(alpha–amino acids). Chiu HC, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):381–92

The initial reactions of TiO2 with blood. Nygren H, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):487–92

Resorbable polyesters in cartilage engineering: affinity and biocompatibility of polymer fiber structures to chondrocytes. Sittinger M, et al. **J Biomed Mater Res** 1996 Summer;33(2):57–63

Resorption of hydroxyapatite and fluorapatite coatings in man. An experimental study in trabecular bone. Overgaard S, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):654–9

Tubing loops as a model for cardiopulmonary bypass circuits: both the biomaterial and the blood–gas phase interfaces induce complement activation in an in vitro model. Gong J, et al. **J Clin Immunol** 1996 Jul;16(4):222–9

Novel method for coupling of poly(ethyleneglycol) to carboxylic acid moieties of proteins. Kynclova E, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):644–51

Influence of the structure of three corals on their resorption kinetics. Fricain JC, et al. **J Periodontal Res** 1996 Oct; 31(7):463–9

Ocular infections: antibiotics and bacterial adhesion on biomaterials used in ocular surgery. Marone P, et al. **Ophthalmologica** 1995;209(6):315–8

Salivary, gut, vaginal and nasal antibody responses after oral immunization with biodegradable microparticles. Challacombe SJ, et al. **Vaccine** 1997 Feb;15(2):169–75

[Bio–absorbable synthetic polyesters and tissue regeneration. A study of three–dimensional proliferation of ovine chondrocytes and osteoblasts] Rivard CH, et al. **Ann Chir** 1996;50(8):651–8 (Eng. Abstr.) **(Fre)**

PHARMACOKINETICS

Absorbable polyglycolide devices in trauma and bone surgery. Ashammakhi N, et al. **Biomaterials** 1997 Jan; 18(1):3–9 (101 ref.)

Degradation behaviour of a new bioceramic: Ca2P2O7 with addition of Na4P2O7.10H2O. Lin FH, et al. **Biomaterials** 1997 Jul;18(13):915–21

Resorption of composite polymer–hydroxyapatite membranes: a time–course study in rabbit. Piattelli A, et al. **Biomaterials** 1997 Apr;18(8):629–33

Comparison between in vitro and in vivo UHMW–PE degradation. Carotenuto G, et al. **J Biomater Sci Polym Ed** 1997;8(6):481–91

Development of a dural substitute from synthetic bioabsorbable polymers. Yamada K, et al. **J Neurosurg** 1997 Jun;86(6):1012–7

PHARMACOLOGY

Application of glutaraldehyde–crosslinked chitosan as a scaffold for hepatocyte attachment. Kawase M, et al. **Biol Pharm Bull** 1997 Jun;20(6):708–10

Evaluation of hepatic antioxidant systems after intravenous administration of polymeric nanoparticles. Fernández–Urrusuno R, et al. **Biomaterials** 1997 Mar; 18(6):511–7

Studies on cell–biomaterial interaction: role of tyrosine phosphorylation during fibroblast spreading on surfaces varying in wettability. Groth T, et al. **Biomaterials** 1996 Jun;17(12):1227–34

In vivo tissue compatibility of two radio–opaque polymeric biomaterials. Kruft MA, et al. **Biomaterials** 1997 Jan; 18(1):31–6

Comparison of biocompatibility of gel–derived bioactive ceramics in macrophage culture conditions. Łączka–Osyczka A, et al. **Biomaterials** 1997 Sep; 18(18):1243–50

Influence of titanium oxide and titanium peroxy gel on the breakdown of hyaluronan by reactive oxygen species. Taylor GC, et al. **Biomaterials** 1996 Jul;17(13):1313–9

Cytotoxicity of synthetic barium hydroxyapatite. Kikuchi M, et al. **Biomed Mater Eng** 1996;6(6):405–13

Viable bone formation in porous hydroxyapatite: marrow cell–derived in vitro bone on the surface of ceramics. Yoshikawa T, et al. **Biomed Mater Eng** 1997;7(1):49–58

The presence of implant materials influences fibronectin arrangement and cell growth in fibroblast cultures. Grill V, et al. **Boll Soc Ital Biol Sper** 1996 Mar–Apr; 72(3–4):87–94

Tissue reaction to three subcutaneously implanted local hemostatic agents. Alpaslan C, et al. **Br J Oral Maxillofac Surg** 1997 Apr;35(2):129–32

Dilating the cervix medically to overcome an unsatisfactory colposcopy: 5 year follow up. Johnson N, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Nov;69(2):125–7

Implication of neutral polysaccharides associated to alginate in inhibition of murine macrophage response to Pseudomonas aeruginosa. Pasquier C, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):195–202

The cells of monocyte–macrophage lineage in mice with the 2–month polyethylene implantation. Rózalska B, et al. **Immunol Lett** 1996 Jan;49(1–2):99–103

Hematological aspects of biocompatibility––review article. Banerjee R, et al. **J Biomater Appl** 1997 Jul;12(1):57–76 (46 ref.)

Biological activity of maleic anhydride copolymers. I. Biocompatibility and antitumoural effects of maleic anhydride–vinyl acetate, maleic anhydride–methyl methacrylate and maleic anhydride–styrene copolymers. Uglea CV, et al. **J Biomater Sci Polym Ed** 1996;8(4):269–80

Effect of (poly)–L–lactic acid on the proliferation and differentiation of primary bone cells in vitro [published erratum appears in J Biomed Mater Res 197 Jun 5;35(3):407–8] Otto TE, et al. **J Biomed Mater Res** 1996 Dec;32(4):513–8

The differential effects of poly(2–hydroxyethyl methacrylate) and poly(2–hydroxyethyl methacrylate)/poly(caprolactone) polymers on cell proliferation and collagen synthesis by human lung fibroblasts. Peluso G, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):327–36

Use of chitosan as a biomaterial: studies on its safety and hemostatic potential. Rao SB, et al. **J Biomed Mater Res** 1997 Jan;34(1):21–8

Antitumor effect of positively charged resin in the hamster cheek pouch model. Simmons DJ, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):393–400

Stimulatory effect of reconstituted basement membrane components (matrigel) on the colony formation of a panel of human lung cancer cell lines in soft agar. Yoshida S, et al. **J Cancer Res Clin Oncol** 1997;123(6):301–9

Long–term results of hydroxyapatite–fibrin glue implantation in plastic and reconstructive craniofacial surgery. Fortunato G, et al. **J Craniomaxillofac Surg** 1997 Jun; 25(3):124–35

Calcium and silicon from bioactive glass concerned with formation of nodules in periodontal–ligament fibroblasts in vitro. Kubo K, et al. **J Oral Rehabil** 1997 Jan;24(1):70–5

Prolonged immune response evoked by a single subcutaneous injection of microcapsules having a monophasic antigen release. Sah H, et al. **J Pharm Pharmacol** 1996 Jan; 48(1):32–6

Synthesis of sulphated proteoglycans by primary cultures of rat hepatocytes––modulation by matrix substratum. Santhosh A, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):1–7

Activation of human neutrophils after contact with cellulose–based haemodialysis membranes: intracellular calcium signalling in single cells. Hänsch GM, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2453–60

In vitro mitochondrial test to assess haemodialyser biocompatibility. Tabouy LJ, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1635–9

Calcium phosphate particle induction of metalloproteinase and mitogenesis: effect of particle sizes. Cheung HS, et al. **Osteoarthritis Cartilage** 1997 May;5(3):145–51

Gastrointestinal uptake of biodegradable microparticles: effect of particle size. Desai MP, et al. **Pharm Res** 1996 Dec;13(12):1838–45

Biological effects of the immunomodulator beta 1–3D polyglucose are strongly potentiated by conjugation to biodegradable microbeads. Seljelid R, et al. **Scand J Immunol** 1997 Jun;45(6):683–7

[Effect of combined treatment with hydroxyapatite and estrone on tooth alveolus healing in experiment] Ivasenko IN, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):693–7 **(Rus)**

[A biological compatibility study of hydroxyapatite] Trofimov VV, et al. **Stomatologiia (Mosk)** 1996;75(5):20–2 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Gamma–sterilization–induced radicals in biodegradable drug delivery systems. Mäder K, et al. **Appl Radiat Isot** 1996 Nov–Dec;47(11–12):1669–74

Influence of gamma–irradiation sterilization and temperature on the fracture toughness of ultra–high–molecular–weight polyethylene. Pascaud RS, et al. **Biomaterials** 1997 May; 18(10):727–35

UV curable bioadhesives: copolymers of N–vinyl pyrrolidone. Kao FJ, et al. **J Biomed Mater Res** 1997 Fall; 38(3):191–6

Radiation–induced physical changes in UHMWPE implant components. Naidu SH, et al. **Orthopedics** 1997 Feb; 20(2):137–42

[Biocompatible coatings for metallic implants obtained by laser spraying] Alimpiev SS, et al. **Stomatologiia (Mosk)** 1996;75(5):64–7 (Eng. Abstr.) **(Rus)**

STANDARDS

Improved fixation of porous–coated versus grit–blasted surface texture of hydroxyapatite–coated implants in dogs. Overgaard S, et al. **Acta Orthop Scand** 1997 Aug; 68(4):337–43

Cora rotary pump for implantable left ventricular assist device: biomaterial aspects. Montiès JR, et al. **Artif Organs** 1997 Jul;21(7):730–4

Trial manufacture of eccentric roller type total artificial heart. Sueshiro M, et al. **Artif Organs** 1997 Jul;21(7):735–8

Reduction of respiratory system resistance of rabbits with surfactant deficiency using a novel ultra thin walled

endotracheal tube. Makhoul IR, et al. **ASAIO J** 1996 Nov-Dec;42(6):1000-5

A new blood compatible and permselective hollow fiber membrane for hemodialysis. Yamashita S, et al. **ASAIO J** 1996 Nov-Dec;42(6):1019-26

Evaluation of the effect of three surface treatments on the biocompatibility of 316L stainless steel using human differentiated cells. Bordji K, et al. **Biomaterials** 1996 Mar; 17(5):491-500

Effect of applied uniaxial stress on rate and mechanical effects of cross-linking in tissue-derived biomaterials. Chachra D, et al. **Biomaterials** 1996 Oct;17(19):1865-75

Addressing processing problems associated with plasma spraying of hydroxyapatite coatings. Cheang P, et al. **Biomaterials** 1996 Mar;17(5):537-44

Elastic behaviour of sutured calf pericardium: influence of the suture threads. García Páez JM, et al. **Biomaterials** 1996 Sep;17(17):1677-83

The effect of thermal treatment on sterility, molecular and mechanical properties of various polylactides. I. Poly(L-lactide). Gogolewski S, et al. **Biomaterials** 1996 Mar;17(5):523-8

Animal tissue-polypyrrole hybrid biomaterials: shrinkage temperature evaluation. Khor E, et al. **Biomaterials** 1996 Oct;17(19):1877-9

Evaluation of implant materials (hydroxyapatite, glass-ceramics, titanium) in rat bone marrow stromal cell culture. Ozawa S, et al. **Biomaterials** 1996 Jan;17(1):23-9

Enhancement of the mechanical properties of polylactides by solid-state extrusion. I. Poly(D-lactide). Weiler W, et al. **Biomaterials** 1996 Mar;17(5):529-35

[editorial] Williams D. **Biomaterials** 1996 Jan;17(1):1-2

Folding intraocular lenses: materials and methods. Seward HC. **Br J Ophthalmol** 1997 May;81(5):340-1

Orbital implants: food for thought [editorial] Downes R. **Eye** 1996;10 (Pt 1):1-3

In vitro blood compatibility evaluation of hollow fibre membrane using a controlled flow system: a comparative study. Matata BM, et al. **Int J Artif Organs** 1996 Oct; 19(10):582-9

Regulatory concerns in the development of biologic-biomaterial combinations.United States Food and Drug Administration. Chapekar MS. **J Biomed Mater Res** 1996 Fall;33(3):199-203

Biomaterials crisis in the medical device industry: is litigation the only cause? [editorial] de Mol BA, et al. **J Biomed Mater Res** 1996 Spring;33(1):53-4

Wear assessment in bileaflet heart valves. Arru P, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S133-43; discussion 144-8 (26 ref.)

Mechanical performance of pyrolytic carbon in prosthetic heart valve applications. Cao H. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S32-49 (58 ref.)

Mechanical cardiac valve prostheses: wear characteristics and magnitudes in three bileaflet valves. Elizondo DR, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S115-23; discussion 144-8

Finite element analysis of indentation tests on pyrolytic carbon. Gilpin CB, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S72-8

Effect of repetitive impact on the mechanical strength of pyrolytic carbon. Kepner J, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S50-8

An initial investigation into the wear and damage within the pivots of three types of bileaflet mechanical heart valves. King MJ, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S111-4; discussion 144-8

Fatigue of isotropic pyrolytic carbon used in mechanical heart valves. Ma L, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S59-64

Wear in mechanical heart valves symposium, Aarhus, 1995 [editorial] Paulsen PK, et al. **J Heart Valve Dis** 1996 Jun; 5 Suppl 1:S2

In vitro testing of heart valve wear outside of the manufacturers laboratory--requirements and controversies. Reul H, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S97-103; discussion 103-4

Structural failure of pyrolytic carbon heart valves. Richard G, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S79-85 (11 ref.)

Fatigue and fracture of pyrolytic carbon: a damage- tolerant approach to structural integrity and life prediction in "ceramic" heart valve prostheses. Ritchie RO. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S9-31 (60 ref.)

Structural integrity assessment of heart valve prostheses: a damage tolerance analysis of the CarboMedics Prosthetic Heart Valve. Ryder JK, et al. **J Heart Valve Dis** 1996 Jun; 5 Suppl 1:S86-96 (32 ref.)

A cardiac surgeon's perspective. Taylor KM. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S7-8 (0 ref.)

An engineer's perspective. Yoganathan AP. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S3-6 (0 ref.)

Potential problem when using the new lower-prime hollow-fibre membrane oxygenators with uncoated stainless steel heat exchangers. Palanzo DA, et al. **Perfusion** 1996 Nov;11(6):481-5

Severe gas pathway obstruction of a hollow-fibre membrane oxygenator. Zombolas TL, et al. **Perfusion** 1996 Nov; 11(6):467-70

The influence of scratches to metallic counterfaces on the wear of ultra-high molecular weight polyethylene. Fisher J, et al. **Proc Inst Mech Eng [H]** 1995;209(4):263-4

Assessing the role of the biomaterial Aquavene in patient reactions to Landmark midline catheters. Silverstein B, et al. **Regul Toxicol Pharmacol** 1997 Feb;25(1):60-7 (46 ref.)

SUPPLY & DISTRIBUTION

Biomaterials availability in the U.S. [editorial] Galletti PM. **J Biomed Mater Res** 1996 Nov;32(3):289-91

Biomaterials unavailability threatens medical devices. Citron P, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1863-5

THERAPEUTIC USE

Pneumostasis of experimental air leaks with a new photopolymerized synthetic tissue sealant. Ranger WR, et al. **Am Surg** 1997 Sep;63(9):788-95

Laparoscopic ventral hernia repair: a community hospital experience [letter; comment] Smoot RT Jr, et al. **Am Surg** 1997 May;63(5):464-6. Comment on: Am Surg 1996 May;62(5):331-5. Comment on: Am Surg 1996 May;62(5):336-8.

Use of coral grafts in anterior interbody fusion of the rabbit spine. Tho KS, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):824-7

Is the dog a useful model for accelerated calcification study of cardiovascular bioprostheses? Chanda J, et al. **Artif Organs** 1997 May;21(5):391-5

Bioincompatible membranes place patients with acute renal failure at increased risk of infection [letter; comment] Shaldon S. **ASAIO J** 1996 Nov-Dec;42(6):1032-3. Comment on: ASAIO J 1995 Jul-Sep;41(3):M709-12.

Randomized trial of a biofragmentable bowel anastomosis ring in high-risk colonic resection. Påhlman L, et al. **Br J Surg** 1997 Sep;84(9):1291-4

The use of calcium alginate dressings in deep hand burns. Kneafsey B, et al. **Burns** 1996 Feb;22(1):40-3

Reconstruction of human maxillary defects with nacre powder: histological evidence for bone regeneration. Atlan G, et al. **C R Acad Sci III** 1997 Mar;320(3):253-8

Maxillary growth following atelocollagen implantation on mucoperiosteal denudation of the palatal process in young rabbits: implications for clinical cleft palate repair. Fujioka M, et al. **Cleft Palate Craniofac J** 1997 Jul;34(4):297-308

Hydroxyapatite and fluorapatite coatings for fixation of weight loaded implants. Overgaard S, et al. **Clin Orthop** 1997 Mar;(336):286-96

A clinical and histologic examination in humans of the osseous response to implanted natural bone mineral. Skoglund A, et al. **Int J Oral Maxillofac Implants** 1997 Mar-Apr;12(2):194-9

Polyactive as a bone-filler in a beagle dog model. Meijer GJ, et al. **Int J Oral Maxillofac Surg** 1996 Jun;25(3):210-16

Total hip arthroplasty with hydroxyapatite-coated prostheses. Jaffe WL, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1918-34 (187 ref.)

Femoral canal occlusion in total hip replacement using a resorbable and flexible cement restrictor. Bulstra SK, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):892-8

Combined collagen membrane and hydroxyapatite/collagen chondroitin-sulfate spacer placement in the treatment of 2-wall intrabony defects in chronic adult and rapidly progressive periodontitis patients. Benqué E, et al. **J Clin Periodontol** 1997 Aug;24(8):550-6

Guided tissue regeneration using a collagen membrane in chronic adult and rapidly progressive periodontitis patients in the treatment of 3-wall intrabony defects. Benqué E, et al. **J Clin Periodontol** 1997 Aug;24(8):544-9

A comparison of the biocompatibility of three absorbable hemostatic agents in the rat middle ear. Liening DA, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):454-7

Biocompatible osteoconductive polymer versus iliac graft. A prospective comparative study for the evaluation of fusion pattern after anterior cervical discectomy. Madawi AA, et al. **Spine** 1996 Sep 15;21(18):2123-9; discussion 2129-30

[Bio-Oss bone replacement material. Long-term results with Bio-Oss bone replacement material] Schlegel AK. **Schweiz Monatsschr Zahnmed** 1996;106(2):141-9 **(Ger, Fre)**

[A clinical and experimental validation of the use of Stimuloss in patients with chronic generalized periodontitis] Fedosenko TD, et al. **Stomatologiia (Mosk)** 1997; 76(3):18-22 (Eng. Abstr.) **(Rus)**

[Hydroxyapol and Colapol in dental practice] Leont'ev VK, et al. **Stomatologiia (Mosk)** 1995;74(6):64 **(Rus)**

[The use of new biologically compatible materials in the combined treatment of periodontal diseases] Trezubov VN, et al. **Stomatologiia (Mosk)** 1996;75(5):59-61 (Eng. Abstr.) **(Rus)**

TOXICITY

Application of a combination of neutral red and amido black staining for rapid, reliable cytotoxicity testing of biomaterials. Ciapetti G, et al. **Biomaterials** 1996 Jul; 17(13):1259-64

Evaluation of biological responses to polymeric biomaterials by RT-PCR analysis. I. Study of IL-1 beta mRNA expression. Kishida A, et al. **Biomaterials** 1996 Jul; 17(13):1301-5

Interactions of orthopaedic metals with an immortalized rat osteoblast cell line. McKay GC, et al. **Biomaterials** 1996 Jul;17(13):1339-44

Biocompatibility studies on glass ionomer cements by primary cultures of human osteoblasts. Oliva A, et al. **Biomaterials** 1996 Jul;17(13):1351-6

Tissue response to commercial silicone and polyurethane elastomers after different sterilization procedures. Zhang YZ, et al. **Biomaterials** 1996 Dec;17(23):2265-72

Toxicity parameters for cytotoxicity testing of dental materials in two different mammalian cell lines [published erratum appears in Eur J Oral Sci 1996 Aug;104(4 Pt 1):412] Schweikl H, et al. **Eur J Oral Sci** 1996 Jun;104(3):292-9

Surface studies of albumin immobilized onto PE and PVC films. de Queiroz AA, et al. **J Biomater Sci Polym Ed** 1997; 8(9):667-81

Application of thermosensitive polymers as a new embolic material for intravascular neurosurgery. Matsumaru Y, et al. **J Biomater Sci Polym Ed** 1996;7(9):795-804

Carcinogenicity of CoCrMo (F-75) implants in the rat. Bouchard PR, et al. **J Biomed Mater Res** 1996 Sep; 32(1):37-44

Biomaterial-neutrophil interactions: dysregulation of oxidative functions of fresh neutrophils induced by prior neutrophil-biomaterial interaction. Kaplan SS, et al. **J Biomed Mater Res** 1996 Jan;30(1):67-75

Evaluation of toxicity of medical devices using Spirotox and Microtox tests: I. Toxicity of selected toxicants in various diluents. Nałęcz-Jawecki G, et al. **J Biomed Mater Res** 1997 Apr;35(1):101-5

Preliminary biological evaluation of polyamidoamine (PAMAM) Starburst dendrimers. Roberts JC, et al. **J Biomed Mater Res** 1996 Jan;30(1):53-65

Glutaraldehyde-containing dentin bonding agents are mutagens in mammalian cells in vitro. Schweikl H, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):284-8

Studies on the mechanisms of tumorigenesis induced by polyetherurethanes in rats: leachable and biodegradable oligomers involving the diphenyl carbamate structure acted as an initiator on the transformation of Balb 3T3 cells. Tsuchiya T, et al. **J Biomed Mater Res** 1996 Jul; 31(3):299-303

Biocompatibility of fixation materials in the brain. Mofid MM, et al. **Plast Reconstr Surg** 1997 Jul;100(1):14-20; discussion 21-2

Systematic analytic procedure for identification of unknown medicaments in biological material. Večerková J. **Sb Lek** 1994;95(4):357-61

Effect of bone wax extract on the frequency of bone marrow erythrocyte micronuclei in mice. Mohanan PV, et al. **Vet Hum Toxicol** 1996 Dec;38(6):427-8

[The biological compatibility of the new noble alloy Superpal for metal-ceramic dentures] Lebedenko IIu, et al. **Stomatologiia (Mosk)** 1996;75(3):44-8 (Eng. Abstr.) **(Rus)**

BIOCOMPATIBLE MATERIALS TESTING see **MATERIALS TESTING**

BIOCONTROL see **PEST CONTROL, BIOLOGICAL**

BIODEGRADATION

Priming effect of substrate addition in soil-based biodegradation tests. Shen J, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1428-30

Biodegradation of glyceryl trinitrate by Penicillium corylophilum Dierckx. Zhang YZ, et al. **Appl Environ Microbiol** 1997 May;63(5):1712-4

Clinical degradation and biocompatibility of different bioabsorbable interference screws: a report of six cases. Stähelin AC, et al. **Arthroscopy** 1997 Apr;13(2):238-44

In vivo degradation and biocompatability study of in vitro pre-degraded as-polymerized polylactide particles [letter; comment] Tunc DC. **Biomaterials** 1996 Nov;17(21):2109-12 . Comment on: Biomaterials 1995 Mar;16(4):267-74.

Biological treatment of dye wastewaters using an anaerobic-oxic system. An H, et al. **Chemosphere** 1996 Dec; 33(12):2533-42

Physical factors negatively affecting evaluation of long-term biodegradation experiments of polychlorinated biphenyls. Zachař P, et al. **Chemosphere** 1996 Dec;33(12):2411-21

Marked inflammatory sequelae to implantation of biodegradable and nonbiodegradable polymers in porcine coronary arteries [see comments] van der Giessen WJ, et al. **Circulation** 1996 Oct 1;94(7):1690-7. Comment in: Circulation 1996 Oct 1;94(7):1494-5.

Engineering cytochrome P450s for bioremediation. Kellner DG, et al. **Curr Opin Biotechnol** 1997 Jun;8(3):274-8 (51 ref.)

Estimating the removal and biodegradation potential of radiolabeled organic chemicals in activated sludge. Shimp RJ, et al. **Ecotoxicol Environ Saf** 1996 Jun;34(1):85-93

Posterolateral lumbar fusion using facet joint fixation with biodegradable rods: a pilot study. Johnsson R, et al. **Eur Spine J** 1997;6(2):144-8

Assay for bacteria in porous media by diffusion-weighted NMR. Potter K, et al. **J Magn Reson B** 1996 Oct; 113(1):9-15

Preparation of biodegradable microcapsules containing zidovudine (AZT) using solvent evaporation technique. Mandal TK, et al. **J Microencapsul** 1996 May-Jun; 13(3):257-67

Potential efficacy of basic fibroblast growth factor incorporated in biodegradable hydrogels for skull bone regeneration. Yamada K, et al. **J Neurosurg** 1997 May; 86(5):871-5

BIODEGRADATION

"Bottom-up" bioremediation [editorial; comment] **Nat Biotechnol** 1997 May;15(5):393. Comment on: Nat Biotechnol 1997 May;15(5):436–8.
Phytoremediation: a clean transition from laboratory to marketplace? [news; comment] Boyajian GE, et al. **Nat Biotechnol** 1997 Feb;15(2):127–8. Comment on: Nat Biotechnol 1997 Feb;15(2):174–7.
Plant cell biodegradation of a xenobiotic nitrate ester, nitroglycerin [see comments] Goel A, et al. **Nat Biotechnol** 1997 Feb;15(2):174–7. Comment in: Nat Biotechnol 1997 Feb;15(2):127–8.
E. coli moves into the plastic age [news; comment] Lee SY. Nat Biotechnol 1997 Jan;15(1):17–8. Comment on: Nat Biotechnol 1997 Jan;15(1):63–7.
The EPA's war on bioremediation. Miller H. **Nat Biotechnol** 1997 Jun;15(6):486
CoMFA analysis of biodegradability. Dearden JC, et al. **SAR QSAR Environ Res** 1995;4(4):189–96
[Mathematical modeling of biological disintegration of hard synthetic surfactants in soil] Antomonov MIu, et al. **Gig Sanit** 1997 Jan–Feb;(1):49–50 **(Rus)**
[Genetic control of the destruction of surface-active agents] Dubeĭkovskiĭ AN, et al. **Mikrobiologiia** 1997 May–Jun; 66(3):378–82 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

LPS increases biomaterial degradation by human monocytes in vitro. Benahmed M, et al. **J Biomed Mater Res** 1997 Jan;34(1):115–9

BIODIVERSITY see **ECOSYSTEM**

BIOELECTRIC ENERGY SOURCES

A compressive type skeletal muscle pump as a biomechanical energy source. Mizuhara H, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M637–41

BIOELECTRICAL IMPEDANCE see **ELECTRIC IMPEDANCE**

BIOENERGETICS see **ENERGY METABOLISM**

BIOEQUIVALENCE see **THERAPEUTIC EQUIVALENCY**

BIOETHICS

Bioethics and AIDS research in Uganda [letter] Loue S, et al. **AIDS** 1996 Jul;10(8):932–3
Legacy of German psychiatric genetics: hindsight is always 20/20 [editorial] Gottesman II, et al. **Am J Med Genet** 1996 Jul 26;67(4):317–22 (69 ref.)
Model curricula in public health ethics. Coughlin SS. **Am J Prev Med** 1996 Jul–Aug;12(4):247–51
Early stopping to accept H(o) based on conditional power: approximations and comparisons. Betensky RA. **Biometrics** 1997 Sep;53(3):794–806
European bioethics convention signed [news] Watson R. **BMJ** 1997 Apr 12;314(7087):1066
BIOETHICSLINE use by medical students: curriculum-integrated instruction and collection development implications. Dorsch JL. **Bull Med Libr Assoc** 1997 Apr;85(2):147–53
International bioethics at the bedside [editorial] Zawacki BE. **Burns** 1997 May;23(3):iii–iv
Genetic engineering and environmental ethics. Dobson A. **Camb Q Healthc Ethics** 1997 Spring;6(2):205–21 (69 ref.)
Global equity and disabilities: reflections of a mother from hell. Reed CM. **Camb Q Healthc Ethics** 1997 Winter; 6(1):106–10
Bioethics for clinicians: 3. Capacity. Etchells E, et al. **Can Med Assoc J** 1996 Sep 15;155(6):657–61 (29 ref.)
Bioethics for clinicians: 4. Voluntariness. Etchells E, et al. **Can Med Assoc J** 1996 Oct 15;155(8):1083–6
Bioethics for clinicians: 9. Involving children in medical decisions. Harrison C, et al. **Can Med Assoc J** 1997 Mar 15;156(6):825–8
Bioethics for clinicians: 8. Confidentiality. Kleinman I, et al. **Can Med Assoc J** 1997 Feb 15;156(4):521–4
Bioethics for clinicians: 5. Substitute decision-making. Lazar NM, et al. **Can Med Assoc J** 1996 Nov 15;155(10):1435–7
Bioethics for clinicians: 6. Advance care planning [see comments] Singer PA, et al. **Can Med Assoc J** 1996 Dec 15;155(12):1689–92. Comment in: Can Med Assoc J 1997 Mar 15;156(6):767–8.
A sheep named Dolly [editorial] Turner L. **Can Med Assoc J** 1997 Apr 15;156(8):1149–50
Bioethics for clinicians: 10. Research ethics. Weijer C, et al. **Can Med Assoc J** 1997 Apr 15;156(8):1153–7 (44 ref.)
Ethical and intellectual property in the biological sciences. Maher EA. **Cell Mol Biol (Noisy-le-grand)** 1997 May; 43(3):263–7
Forbidden knowledge and the cloning of a lamb [editorial] Weinberg SL. **Clin Cardiol** 1997 Aug;20(8):673–4
Bioethics for clinicians: 12. Ethical dilemmas that arise in the care of pregnant women: rethinking "maternal-fetal conflicts". Flagler E, et al. **CMAJ** 1997 Jun 15; 156(12):1729–32
Sheep fever [news] Dixon B. **Curr Biol** 1997 May 1;7(5):R272
Scientific and ethical aspects of human monitoring. Frank AL. **Environ Health Perspect** 1996 May;104 Suppl 3:659–62
Influence of bioethics in investigation and treatment in oncology [editorial] Dexeus S, et al. **Eur J Gynaecol Oncol** 1996;17(4):255–6
Ethical issues in international collaborative research on the human genome: the HGP and the HGDP. Knoppers BM, et al. **Genomics** 1996 Jun 1;34(2):272–82
Bioethics, our crowd, and ideology. **Hastings Cent Rep** 1996 Nov–Dec;26(6):3–4
Escaping from legalism: is it possible? **Hastings Cent Rep** 1996 Nov–Dec;26(6):34–5
Can nature serve as a moral guide? **Hastings Cent Rep** 1996 Nov–Dec;26(6):21–2
Is justice enough? Ends and means in bioethics. **Hastings Cent Rep** 1996 Nov–Dec;26(6):9–10
Morality and the state, law and legalism. Capron AM. **Hastings Cent Rep** 1996 Nov–Dec;26(6):35–7
The Advisory Committee on Human Radiation Experiments. Reflections on a Presidential Commission. Faden R. **Hastings Cent Rep** 1996 Sep–Oct;26(5):5–10
More than bioethics. Fox RC. **Hastings Cent Rep** 1996 Nov–Dec;26(6):5–7
Deliberating about bioethics. Gutmann A, et al. **Hastings Cent Rep** 1997 May–Jun;27(3):38–41
Beyond distributive justice in health reform. Jennings B. **Hastings Cent Rep** 1996 Nov–Dec;26(6):14–5
Bioethics, whose crowd, and what ideology? Jonsen AR. **Hastings Cent Rep** 1996 Nov–Dec;26(6):4–5
The troubled dream of nature as a moral guide. Kass LR. **Hastings Cent Rep** 1996 Nov–Dec;26(6):22–4
Daniel Callahan: on living (well) within limits. May WF. **Hastings Cent Rep** 1996 Nov–Dec;26(6):16–9
Less law? Or different law? Meilaender G. **Hastings Cent Rep** 1996 Nov–Dec;26(6):39–40
Two of a kind—or none? [news] Nicholson R. **Hastings Cent Rep** 1997 May–Jun;27(3):5
A new national bioethics commission—maybe. Palca J. **Hastings Cent Rep** 1996 Jan–Feb;26(1):5
The screwed observer encounters the bioethics advocate. Ross JW. **Hastings Cent Rep** 1996 Nov–Dec;26(6):32–3
Moral discourse, bioethics, and the law. Schneider CE. **Hastings Cent Rep** 1996 Nov–Dec;26(6):37–9
Which grounds for overriding autonomy are legitimate? Veatch RM. **Hastings Cent Rep** 1996 Nov–Dec;26(6):42–3
Bioethics committees and JCAHO patients' rights standards: a question of balance. Corsino BV. **J Clin Ethics** 1996 Summer;7(2):177–81; discussion 182–3
Legal trends in bioethics. Davis DS. **J Clin Ethics** 1996 Summer;7(2):187–90 (09 ref.)
Are attitudes towards bioethics entering a new era? [editorial] Lenoir N. **J Med Ethics** 1997 Apr;23(2):69–70
Bioethical perspectives from Ibero-America. Drane JF. **J Med Philos** 1996 Dec;21(6):557–69
Bioethics, metaphysical involvements, and biomedical practice. Fan R. **J Med Philos** 1997 Apr;22(2):91–8
Bioethics in Ibero-America and the Caribbean. Figueroa PR, et al. **J Med Philos** 1996 Dec;21(6):611–27
Human cloning: a case of no harm done? Roberts MA. **J Med Philos** 1996 Oct;21(5):537–54
On the limits of enhancement in human gene transfer: drawing the line. Torres JM. **J Med Philos** 1997 Feb; 22(1):43–53
Bioethics Advisory Commission holds first meeting to define governing principles of ethical research [news] Marwick C. **JAMA** 1996 Nov 27;276(20):1627
Put human cloning on hold, say bioethicists [news] Marwick C. **JAMA** 1997 Jul 2;278(1):13–4
Bioethics Commission examines informed consent from subjects who are 'decisionally incapable' [news] Marwick C. **JAMA** 1997 Aug 27;278(8):618–9
Teaching of human rights in US medical schools [see comments] Sonis J, et al. **JAMA** 1996 Nov 27; 276(20):1676–8. Comment in: JAMA 1996 Nov 27;276(20):1679–81.
Threatened bans on human cloning research could hamper advances [news] Stephenson J. **JAMA** 1997 Apr 2; 277(13):1023, 1025–6
The baby market [editorial] **Lancet** 1997 May 24; 349(9064):1487
Xenotransplantation [letter; comment] Shapiro D. **Lancet** 1997 Mar 8;349(9053):735–6. Comment on: Lancet 1997 Jan 25;349(9047):219.
Ethical and legal issue raised by DNA fingerprinting in France. Mangin P. **Med Law** 1996;15(3):479–83
On being a virtuous physician. Managed care poses many challenges. Caldwell JR. **Mich Med** 1996 Jan;95(1):18–20
Cloned sheep rekindles ethical debate [news] O'Brien C. **Mol Med Today** 1997 Apr;3(4):140
US bioethicists say continue human cloning moratorium [news] Fox JL. **Nat Biotechnol** 1997 Jul;15(7):609
Bioethicists ruminate separately on clones, gene 'enhancements' [news] Fox JL. **Nat Biotechnol** 1997 May; 15(5):406–7
Ethics and genetics in China: an inside story [letter] Mao X. **Nat Genet** 1997 Sep;17(1):20
Editors and embryos [letter; comment] Novo FJ. **Nat Med** 1996 Dec;2(12):1280. Comment on: Nat Med 1996 Sep;2(9):947.
Short-circuit to be avoided by bioethics committees [editorial] [see comments] **Nature** 1997 May 22; 387(6631):321. Comment in: Nature 1997 Jul 24;388(6640):320.
Caught napping by clones [editorial; comment] [see comments] **Nature** 1997 Feb 27;385(6619):753. Comment on: Nature 1997 Feb 27;385(6619):769, 771. Comment on: Nature 1997 Feb 27;385(6619):810–3. Comment in: Nature 1997 Apr 3;386(6624):431.
High-level ethics committee 'needed to guide genetics policy' [news] **Nature** 1997 Feb 27;385(6619):756
Bioethics group finds no objection to human gene patents [news] Abbott A. **Nature** 1996 Oct 3;383(6599):368
German physicians warn of genetics risks [news] Abbott A. **Nature** 1996 Nov 7;384(6604):5
Cloning humans [letter; comment] Baker MR. **Nature** 1997 May 8;387(6629):119. Comment on: Nature 1997 Apr 3;386(6624):431.
Calls for cloning ban sell science short [news] Butler D, et al. **Nature** 1997 Mar 6;386(6620):8–9
Rüttgers and Chirac seek cloning ban [news] Butler D, et al. **Nature** 1997 May 8;387(6629):111
Cloning and bioethical thinking [letter] Harris J. **Nature** 1997 Oct 2;389(6650):433
Is cloning an attack on human dignity? [letter; comment] [see comments] Harris J. **Nature** 1997 Jun 19;387(6635):754 . Comment on: Nature 1997 Feb 27;385(6619):810–3. Comment on: Nature 1997 Mar 13;386(6621):119. Comment in: Nature 1997 Jul 3;388(6637):15. Comment in: Nature 1997 Jul 24;388(6640):320.
Cloning, dignity and ethical revisionism [letter; comment] [see comments] Kahn A. **Nature** 1997 Jul 24;388(6640):320 . Comment on: Nature 1997 May 22;387(6631):321. Comment on: Nature 1997 May 22;387(6631):324. Comment on: Nature 1997 Jun 19;387(6635):754. Comment in: Nature 1997 Aug 7;388(6642):511.
Clone mammals... clone man? [comment] [see comments] Kahn A. **Nature** 1997 Mar 13;386(6621):119. Comment on: Nature 1997 Feb 27;385(6619):810–3. Comment in: Nature 1997 Jun 19;387(6635):754.
Call for human subjects monitoring body [news] Lehrman S. **Nature** 1997 Jul 24;388(6640):313
US bioethics panel poised to judge local review boards [news] Macilwain C. **Nature** 1996 Oct 10;383(6600):466
Concentrating the mind [letter; comment] Martin S. **Nature** 1996 Oct 3;383(6599):381. Comment on: Nature 1996 Aug 22;382(6593):657.
Cloning humans [letter; comment] Nestle N. **Nature** 1997 May 8;387(6629):119. Comment on: Nature 1997 Apr 3;386(6624):431.
Cloning, dignity and ethical reasoning [letter; comment] Shapiro D. **Nature** 1997 Aug 7;388(6642):511. Comment on: Nature 1997 Jul 24;388(6640):320.
Clinton sketches out his 'ethical guideposts' for modern biology [news] Wadman M. **Nature** 1997 May 22; 387(6631):323
Ethics of private panels comes under scrutiny [news] Wadman M. **Nature** 1997 May 29;387(6632):445
White House bill would ban human cloning [news] Wadman M. **Nature** 1997 Jun 12;387(6634):644
Psychiatry and bioethics. An exploration of the relationship. Steinberg MD. **Psychosomatics** 1997 Jul–Aug;38(4):313–20
Ethics of AZT studies in poorer countries attacked [news] Cohen J. **Science** 1997 May 16;276(5315):1022
Watson urges 'put Hitler behind us' [news] Koenig R. **Science** 1997 May 9;276(5314):892
Clinton urges outlawing human cloning [news] Marshall E. **Science** 1997 Jun 13;276(5319):1640
Embryologists dismayed by sanctions against geneticist [news] Marshall E. **Science** 1997 Jan 24;275(5299):472
Panel approves gene trial for "normals" [news] [published erratum appears in Science 1997 Apr 11;276(5310):185] Marshall E. **Science** 1997 Mar 14;275(5306):1561
Mammalian genome debate heats up [news] Marshall E. **Science** 1997 Mar 21;275(5307):1733
The genome project's conscience [news] [published erratum appears in Science 1996 Nov 15;274(5290):1069] Marshall E. **Science** 1996 Oct 25;274(5287):488–90
Is data-hoarding slowing the assault on pathogens? [news] [see comments] Marshall E. **Science** 1997 Feb 7; 275(5301):777–80. Comment in: Science 1997 Mar 28;275(5308):1861–2.
Panel weighs a law against cloning [news] Marshall E. **Science** 1997 May 23;276(5316):1185–6
Ethical and policy issues of human cloning. Shapiro HT. **Science** 1997 Jul 11;277(5323):195–6
From science fiction to ethics quandary [news] Vogel G. **Science** 1997 Sep 19;277(5333):1753–4
Cloning sparks calls for new laws [news] Williams N. **Science** 1997 Mar 7;275(5305):1415
When is thrombolysis justified in patients with acute ischemic stroke? A bioethical perspective [see comments] Furlan AJ, et al. **Stroke** 1997 Jan;28(1):214–8. Comment in: Stroke 1997 May;28(5):1086–7.
Incentives, population policy, and reproductive rights: ethical issues. Isaacs SL. **Stud Fam Plann** 1995 Nov–Dec; 26(6):363–7
Transplantation from living donors who are unable to give consent for organ harvesting. Safjan M, et al. **Transplant Proc** 1996 Dec;28(6):3609–11
The health care ethics consultant and beneficence in medicine [editorial] Aarons D. **West Indian Med J** 1997 Mar; 46(1):1–2
[Teaching bioethics] Ishay R. **Harefuah** 1996 May 15; 130(10):711–3 **(Heb)**
[Bioethics on DNA diagnosis] Fujiki N. **Rinsho Shinkeigaku** 1996 Dec;36(12):1310–1 (Eng. Abstr.)

(Jpn)

[The problems of biomedical ethics development in Russia] Shchepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1994 May–Jun;(3):3–6 **(Rus)**

[On bioethical and legal studies of use of gene therapy] Bochkov NP, et al. **Vestn Ross Akad Med Nauk** 1997;(8):38–40 (11 ref.) (Eng. Abstr.) **(Rus)**

[Biomedical ethics as a form of professional defense of physician's personality] Siluianova IV. **Vestn Ross Akad Med Nauk** 1997;(8):40–3 (5 ref.) (Eng. Abstr.) **(Rus)**

[Pragmatic bioethics in neurological surgery] Velasco-Suárez M, et al. **Gac Med Mex** 1997 May–Jun;133(3):211–29 **(Spa)**

[Current status of bioethics] Villalobos-Pérez JJ. **Gac Med Mex** 1996 Jan–Feb;132(1):103–5 **(Spa)**

[Ethical theories and bioethical principles] Ferrer JJ. **P R Health Sci J** 1997 Mar;16(1):81–6 **(Spa)**

[The ethical implications of the managed care model of health] Santos y Vargas L. **P R Health Sci J** 1996 Jun; 15(2):119–25 **(Spa)**

[Bioethics and gastroenterology] García Romero H. **Rev Gastroenterol Mex** 1996 Jul–Sep;61(3):276–80 **(Spa)**

HISTORY

Duty and healing: the lifework of Benjamin Freedman [editorial] Weijer C. **Can Med Assoc J** 1997 Jun 1; 156(11):1553–5

Dedicatory essay on John C. Fletcher. Miller FG. **J Contemp Health Law Policy** 1996 Fall;13(1):viii–xxxii

Clinical pragmatism: John Dewey and clinical ethics. Miller FG, et al. **J Contemp Health Law Policy** 1996 Fall; 13(1):27–51

The historical setting of Latin American bioethics. Gracia D. **J Med Philos** 1996 Dec;21(6):593–609

BIOFEEDBACK (PSYCHOLOGY)

Stability limits for visual feedback posturography in vestibular rehabilitation. Hirvonen TP, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:104–7

Disappointed by biofeedback article [letter; comment] Lowenstein T. **Altern Ther Health Med** 1997 May;3(3):18, 21. Comment on: Altern Ther Health Med 1997 Jan;3(1):51–9.

Voluntary control of vascular tone by using skin–temperature biofeedback–relaxation in patients with advanced heart failure [see comments] Moser DK, et al. **Altern Ther Health Med** 1997 Jan;3(1):51–9. Comment in: Altern Ther Health Med 1997 May;3(3):18, 21.

Can biofeedback therapy improve anorectal function in fecal incontinence? Rao SS, et al. **Am J Gastroenterol** 1996 Nov; 91(11):2360–6

Biofeedback for writer's cramp. O'Neill MA, et al. **Am J Occup Ther** 1997 Jul–Aug;51(7):605–7

Clinical trial of a cervical traction modality with electromyographic biofeedback. Wong AM, et al. **Am J Phys Med Rehabil** 1997 Jan–Feb;76(1):19–25

Randomised trial of biofeedback training for encopresis. van der Plas RN, et al. **Arch Dis Child** 1996 Nov;75(5):367–74

Biofeedback is effective therapy for fecal incontinence and constipation. Ko CY, et al. **Arch Surg** 1997 Aug; 132(8):829–33; discussion 833–4

The effect of autogenic training and biofeedback on motion sickness tolerance. Jozsvai EE, et al. **Aviat Space Environ Med** 1996 Oct;67(10):963–8

EEG biofeedback as a treatment for chronic fatigue syndrome: a controlled case report. James LC, et al. **Behav Med** 1996 Summer;22(2):77–81

Controlled evaluation of thermal biofeedback in treatment of elevated blood pressure in unmedicated mild hypertension. Blanchard EB, et al. **Biofeedback Self Regul** 1996 Jun;21(2):167–90

A retrospective, follow-up study of biofeedback-assisted relaxation therapy in patients with posttraumatic headache. Ham LP, et al. **Biofeedback Self Regul** 1996 Jun; 21(2):93–104

Using statistical equivalence testing in clinical biofeedback research. Hatch JP. **Biofeedback Self Regul** 1996 Jun; 21(2):105–19

A controlled study of the effects of EEG biofeedback on cognition and behavior of children with attention deficit disorder and learning disabilities. Linden M, et al. **Biofeedback Self Regul** 1996 Mar;21(1):35–49

Good news--bad press: applied psychophysiology in cardiovascular disorders. McGrady A. **Biofeedback Self Regul** 1996 Dec;21(4):335–46

Ethical and practice considerations for biofeedback therapists in the treatment of urinary incontinence. Paul P, et al. **Biofeedback Self Regul** 1996 Sep;21(3):229–40 (32 ref.)

Outcome and predictors of success of biofeedback for constipation. Gilliland R, et al. **Br J Surg** 1997 Aug; 84(8):1123–6

Self-management in the treatment of ataxia: a case study in reducing ataxic tremor through relaxation and biofeedback. Guercio J, et al. **Brain Inj** 1997 May;11(5):353–62

Biofeedback therapy for defecation disorders. Rao SS, et al. **Dig Dis** 1997;15 Suppl 1:78–92 (71 ref.)

Biofeedback for intractable rectal pain: outcome and predictors of success. Gilliland R, et al. **Dis Colon Rectum** 1997 Feb;40(2):190–6

Biofeedback retraining in patients with functional constipation and paradoxical puborectalis contraction: comparison of anal manometry and sphincter electromyography for feedback. Glia A, et al. **Dis Colon Rectum** 1997 Aug;40(8):889–95

Biofeedback is effective treatment for levator ani syndrome. Heah SM, et al. **Dis Colon Rectum** 1997 Feb;40(2):187–9

Biofeedback therapy for excessive stool frequency and incontinence following anterior resection or total colectomy. Ho YH, et al. **Dis Colon Rectum** 1996 Nov; 39(11):1289–92

Biofeedback improves functional outcome after sphincteroplasty. Jensen LL, et al. **Dis Colon Rectum** 1997 Feb;40(2):197–200

Biofeedback in colorectal practice: a multicenter, statewide, three-year experience. Patankar SK, et al. **Dis Colon Rectum** 1997 Jul;40(7):827–31

Electromyographic assessment of biofeedback training for fecal incontinence and chronic constipation. Patankar SK, et al. **Dis Colon Rectum** 1997 Aug;40(8):907–11

Biofeedback in the treatment of faecal incontinence. Barlow JD. **Eur J Gastroenterol Hepatol** 1997 May;9(5):431–4 (19 ref.)

Biofeedback applications in gastroenterology. Enck P, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):534–9 (38 ref.)

Bladder rehabilitation, the effect of a cognitive training programme on urge incontinence. Vijverberg MA, et al. **Eur Urol** 1997;31(1):68–72

Behavioral treatment in migraine. Cognitive-behavioral therapy and blood-volume-pulse biofeedback: a cross-over study with a two-year follow-up. Kropp P, et al. **Funct Neurol** 1997 Jan–Feb;12(1):17–24

Placebo-controlled biofeedback blood pressure effect in hypertensive humans. Hunyor SN, et al. **Hypertension** 1997 Jun;29(6):1225–31

Biofeedback for anismus in 15 sexually abused women. Leroi AM, et al. **Int J Colorectal Dis** 1996;11(4):187–90

Biofeedback and physiotherapy versus physiotherapy alone in the treatment of genuine stress urinary incontinence. Glavind K, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(6):339–43

Sensory substitution in the diabetic neuropathic foot. Walker SC. **J Am Podiatr Med Assoc** 1997 Jul;87(7):338

Bilateral skin temperature, handedness, and the biofeedback control of skin temperature. Grimsley DL, et al. **J Behav Med** 1996 Feb;19(1):87–94

Evaluating the response of mild hypertensives to biofeedback-assisted relaxation using a mental stress test. Paran E, et al. **J Behav Ther Exp Psychiatry** 1996 Jun; 27(2):157–67

Individual differences in response to biofeedback procedures. Hume WI. **J Belge Med Phys Rehabil** 1980;3(4):290–9

Biofeedback treatment for pediatric migraine: prediction of treatment outcome. Hermann C, et al. **J Consult Clin Psychol** 1997 Aug;65(4):611–6

Dysfunctional patients with temporomandibular disorders: evaluating the efficacy of a tailored treatment protocol. Turk DC, et al. **J Consult Clin Psychol** 1996 Feb; 64(1):139–46

Biofeedback with children and adolescents: clinical observations and patient perspectives. Culbert TP, et al. **J Dev Behav Pediatr** 1996 Oct;17(5):342–50 (148 ref.)

Hypnosis and biofeedback with children and adolescents; clinical, research, and educational aspects. Introduction. Olness K. **J Dev Behav Pediatr** 1996 Oct;17(5):299

Posture control using electrical stimulation biofeedback: a pilot study. Metherall P, et al. **J Med Eng Technol** 1996 Mar–Apr;20(2):53–9

Additive benefits of laxative, toilet training, and biofeedback therapies in the treatment of pediatric encopresis. Cox DJ, et al. **J Pediatr Psychol** 1996 Oct;21(5):659–70

Biofeedback therapy in stroke rehabilitation: a review. Glanz M, et al. **J R Soc Med** 1997 Jan;90(1):33–9 (54 ref.)

Facilitation of internal locus of control in adolescent alcoholics through a brief biofeedback-assisted autogenic relaxation training procedure. Sharp C, et al. **J Subst Abuse Treat** 1997 Jan–Feb;14(1):55–60

Pseudodyssynergia (contraction of the external sphincter during voiding) misdiagnosed as chronic nonbacterial prostatitis and the role of biofeedback as a therapeutic option. Kaplan SA, et al. **J Urol** 1997 Jun;157(6):2234–7

Management of childhood constipation. Beach RC. **Lancet** 1996 Sep 21;348(9030):766–7

Stability of cortical self-regulation in epilepsy patients. Kotchoubey B, et al. **Neuroreport** 1997 May 27; 8(8):1867–70

Changes in myopia, visual acuity, and psychological distress after biofeedback visual training. Angi MR, et al. **Optom Vis Sci** 1996 Jan;73(1):35–42

Clinical effects of blood pressure biofeedback treatment on hypertension by auto-shaping. Nakao M, et al. **Psychosom Med** 1997 May–Jun;59(3):331–8

Treating myopia with acoustic biofeedback: a prospective study on the evolution of visual acuity and psychological distress. Rupolo G, et al. **Psychosom Med** 1997 May–Jun; 59(3):313–7

Biofeedback, relaxation training, and cognitive behaviour modification as treatments for lower functional gastrointestinal disorders. Bassotti G, et al. **QJM** 1997 Aug; 90(8):545–50 (69 ref.)

Auditory feedback regulation of perturbed stance in stroke patients. Petersen H, et al. **Scand J Rehabil Med** 1996 Dec; 28(4):217–23

Biofeedback assisted relaxation in essential hypertension: short-term follow-up of contributing effects of pharmacotherapy on blood pressure and heart rate. "Brief communication". Cengiz E, et al. **Yonsei Med J** 1997 Apr; 38(2):86–90

[Biofeedback in speech therapy after cleft palate surgery] Chen R, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Sep;30(5):314–6 (27 ref.) **(Chi)**

[Biofeedback of back coupling. Theory and practice in the hemiplegic patient] Geerinckx P. **J Belge Med Phys Rehabil** 1980;3(4):280–9 **(Dut)**

[Spatial organization of cortical electric activity in voluntary regulation of the heart rate] Glazkova VA, et al. **Fiziol Cheloveka** 1996 Sep–Oct;22(5):104–8 **(Rus)**

[Use of biological feedback in persons with complete new dental prostheses during the initial period of functional adaptation] Miljković Z, et al. **Vojnosanit Pregl** 1996 May–Jun;53(3):209–13 (Eng. Abstr.) **(Scr)**

[Biofeedback: a simple and efficient method in the treatment of fecal incontinence] Laudanno OM, et al. **Acta Gastroenterol Latinoam** 1996;26(2):105–10 (Eng. Abstr.) **(Spa)**

[Unstable detrusor: usefulness of biofeedback] Pena Outeiriño JM, et al. **Actas Urol Esp** 1996 Jul–Aug;20(7):640–7 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Design and assessment of an adaptive intermittent cervical traction modality with EMG biofeedback. Lee MY, et al. **J Biomech Eng** 1996 Nov;118(4):597–600

Clinical evaluation of a new biofeedback standing balance training device. Lee MY, et al. **J Med Eng Technol** 1996 Mar–Apr;20(2):60–6

The development and clinical evaluation of a standing biofeedback trainer. Wong AM, et al. **J Rehabil Res Dev** 1997 Jul;34(3):322–7

[Principles of designing feedback devices based on the theory of functional systems] Umriukhin EA. **Med Tekh** 1997 Jan–Feb;(1):33–40 **(Rus)**

METHODS

Biofeedback-induced voluntary reduction of respiratory resistance in severe bronchial asthma. Mass R, et al. **Behav Res Ther** 1996 Oct;34(10):815–9

Biodesensitization: biofeedback-controlled systematic desensitization of the stress response to infant crying. Tyson PD. **Biofeedback Self Regul** 1996 Sep;21(3):273–90

Stuttering amelioration at various auditory feedback delays and speech rates. Kalinowski J, et al. **Eur J Disord Commun** 1996;31(3):259–69

Methodology of biofeedback. Denis P. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):530–3 (22 ref.)

Enhanced performance feedback to strengthen biofeedback treatment outcome with childhood migraine. Allen KD, et al. **Headache** 1997 Mar;37(3):169–73

Reducing excessive vocal loudness in persons with mental retardation through the use of a portable auditory-feedback device. Lancioni GE, et al. **J Behav Ther Exp Psychiatry** 1997 Jun;28(2):123–8

Evaluating the efficacy of a biofeedback intervention to reduce children's anxiety. Wenck LS, et al. **J Clin Psychol** 1996 Jul;52(4):469–73

EMG feedback-assisted postoperative rehabilitation of minor arthroscopic knee surgeries. Levitt R, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):218–23

Videoendoscopic biofeedback: a simple method to improve the efficacy of swallowing rehabilitation of patients after head and neck surgery. Denk DM, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):100–5

Auditory brainwave stimulation in treating alcoholic depression. Waldkoetter RO, et al. **Percept Mot Skills** 1997 Feb;84(1):226

Balance retraining after stroke using force platform biofeedback. Nichols DS. **Phys Ther** 1997 May;77(5):553–8 (21 ref.)

[EMG biofeedback. Various clinical applications] De Bruyne J. **J Belge Med Phys Rehabil** 1980;3(4):269–79 **(Dut)**

[The use of the Zubova-Stuart method of bioinformation therapy in sexology practice] Gorpinchenko II, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):140–2 **(Rus)**

[Correction of the breathing in the treatment of bronchial asthma by means of biological feedback] Anokhin MI, et al. **Med Tekh** 1996 Jan–Feb;(1):26–9 (Eng. Abstr.) **(Rus)**

[The laser therapy of median nerve neuritis in a biocontrol mode] Barishevskaia TI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May–Jun; (3):26–8 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

The effects of breathing pattern training on ventilatory function in patients with COPD. Estève F, et al. **Biofeedback Self Regul** 1996 Dec;21(4):311–21

Racial and gender effects on the relaxation response: implications for the development of hypertension. Roberts G, et al. **Biofeedback Self Regul** 1996 Mar;21(1):51–62

Treatment of motor aprosodia with pitch biofeedback and expression modelling. Stringer AY. **Brain Inj** 1996 Aug; 10(8):583–90

Self-regulation of slow cortical potentials in epilepsy: a retrial with analysis of influencing factors. Kotchoubey B, et al.

Epilepsy Res 1996 Nov;25(3):269–76

Self–regulation of interhemispheric asymmetry in humans. Kotchoubey B, et al. **Neurosci Lett** 1996 Sep 6;215(2):91–4

Relevance of muscular sensitivity, muscular activity, and cognitive variables for pain reduction associated with EMG biofeedback in fibromyalgia. Sarnoch H, et al.
Percept Mot Skills 1997 Jun;84(3 Pt 1):1043–50

[Changes in the components of the human visual evoked potential during conditioning using biological feedback] Mnatsakanian EV.
Zh Vyssh Nerv Deiat Im I P Pavlova 1996 May–Jun; 46(3):479–87 (Eng. Abstr.) **(Rus)**

BIOFILMS

see related
BACTERIAL ADHESION
PROSTHESIS–RELATED INFECTIONS

Comparison of recalcitrance to ciprofloxacin and levofloxacin exhibited by Pseudomonas aeruginosa bofilms displaying rapid–transport characteristics. Vrany JD, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1352–8

Bacterial biofilms and the bioelectric effect. Wellman N, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2012–4

Enzymatic removal and disinfection of bacterial biofilms. Johansen C, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3724–8

Activity and three–dimensional distribution of toluene–degrading Pseudomonas putida in a multispecies biofilm assessed by quantitative in situ hybridization and scanning confocal laser microscopy. Møller S, et al.
Appl Environ Microbiol 1996 Dec;62(12):4632–40

Population analysis in a denitrifying sand filter: conventional and in situ identification of Paracoccus spp. in methanol–fed biofilms. Neef A, et al.
Appl Environ Microbiol 1996 Dec;62(12):4329–39

Structure and function of a nitrifying biofilm as determined by in situ hybridization and the use of microelectrodes. Schramm A, et al. **Appl Environ Microbiol** 1996 Dec; 62(12):4641–7

Cleaning techniques for medical devices: biofilms. Costerton JW. **Biomed Instrum Technol** 1997 May–Jun;31(3):222–6, 247

Biliary and pancreatic stent blockage by bacterial biofilm: presentation of two cases. Brant CQ, et al.
Braz J Med Biol Res 1996 Nov;29(11):1455–9

Effect of time and washing on the adhesion of Acanthamoeba to extended wear disposable hydrogel contact lenses. Ramachandran L, et al. **CLAO J** 1997 Apr;23(2):113–6

Biofilm formation in infectious crystalline keratopathy due to Candida albicans. Elder MJ, et al. **Cornea** 1996 May; 15(3):301–4

Binding of Acanthamoeba to hydrogel contact lenses. Gorlin AI, et al. **Curr Eye Res** 1996 Feb;15(2):151–5

Functional effects of the bacterial insecticide Bacillus thuringiensis var. kurstaki on aquatic microbial communities. Kreutzweiser DP, et al.
Ecotoxicol Environ Saf 1996 Apr;33(3):271–80

Virulence of Staphylococcus epidermidis in a mouse model: significance of extracellular slime. Deighton MA, et al.
Epidemiol Infect 1996 Oct;117(2):267–80

Evidence of autoinducer activity in naturally occurring biofilms. McLean RJ, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):259–63

Interactions between biofilms and the environment. Beveridge TJ, et al. **FEMS Microbiol Rev** 1997 Jul; 20(3–4):291–303

Biofilms, microbial ecology and Antoni van Leeuwenhoek. Slavkin HC. **J Am Dent Assoc** 1997 Apr;128(4):492–5

Biofilm causes decreased production of interferon–gamma. Dasgupta MK. **J Am Soc Nephrol** 1996 Jun;7(6):877–82

Mathematical model of beta–lactam penetration into a biofilm of Pseudomonas aeruginosa while undergoing simultaneous inactivation by released beta–lactamases. Dibdin GH, et al. **J Antimicrob Chemother** 1996 Nov;38(5):757–69

Bacterial biofilms: resistance to antimicrobial agents. Gander S. **J Antimicrob Chemother** 1996 Jun;37(6):1047–50 (33 ref.)

The efficacy of antibiotics enhanced by electrical currents against Pseudomonas aeruginosa biofilms. Jass J, et al.
J Antimicrob Chemother 1996 Dec;38(6):987–1000

Factors affecting development of rifampicin resistance in biofilm–producing Staphylococcus epidermidis. Svensson E, et al. **J Antimicrob Chemother** 1997 Jun;39(6):817–20

Adhesion of the positively charged bacterium Stenotrophomonas (Xanthomonas) maltophilia 70401 to glass and Teflon. Jucker BA, et al. **J Bacteriol** 1996 Sep; 178(18):5472–9

Association of biofilm production of coagulase–negative staphylococci with expression of a specific polysaccharide intercellular adhesin. Mack D, et al. **J Infect Dis** 1996 Oct; 174(4):881–4

Bacterial colonization of bioabsorbable barrier material and periodontal regeneration. De Sanctis M, et al.
J Periodontol 1996 Nov;67(11):1193–200

Effects of granulocyte–macrophage colony stimulating factor (GM–CSF) on biomaterial–associated staphylococcal infection in mice. Rózalska B, et al. **Microbiol Immunol** 1996;40(12):931–9

Are bacterial biofilms constrained to Darwin's concept of evolution through natural selection? Caldwell DE, et al.
Microbiologia 1996 Sep;12(3):347–58 (61 ref.)

Biofilms associated with poultry processing equipment. Lindsay D, et al. **Microbios** 1996;86(347):105–16

Ciliates in rapid gravity filters of waterworks exploiting deep groundwaters. Foissner W. **Microsc Res Tech** 1996 Jan 1; 33(1):12–22

Applications of laser scanning microscopy for analysis of aquatic microhabitats. Ghiorse WC, et al.
Microsc Res Tech 1996 Jan 1;33(1):73–86

Postoperative cellular reaction on various intraocular lens materials. Ravalico G, et al. **Ophthalmology** 1997 Jul; 104(7):1084–91

Bacterial assay of contact lens wearers. Hart DE, et al.
Optom Vis Sci 1996 Mar;73(3):204–7

Anterior hydrogel lens deposits: polished vs. unpolished surfaces. Kaplan EN, et al. **Optom Vis Sci** 1996 Mar; 73(3):201–3

[Antimicrobial activity in Staphylococcus epidermidis biofilms on polyvinyl chloride catheters] Ramírez de Arellano E, et al. **Enferm Infecc Microbiol Clin** 1995 Dec; 13(10):581–6 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Inhibitory activity of clarithromycin on biofilm synthesis with Pseudomonas aeruginosa. Kondoh K, et al.
Acta Otolaryngol Suppl (Stockh) 1996;525:56–60

Inhibitory effect of roxithromycin on biofilm formation of Pseudomonas aeruginosa. Ozeki M, et al.
Acta Otolaryngol Suppl (Stockh) 1996;525:61–3

Antibacterial effects of amalgams on mutans streptococci in an in vitro biofilm test procedure. Netuschil L, et al.
Acta Stomatol Belg 1996 Jun;93(2):73–8

Theoretical aspects of antibiotic diffusion into microbial biofilms. Stewart PS. **Antimicrob Agents Chemother** 1996 Nov;40(11):2517–22

Substratum topography influences susceptibility of Salmonella enteritidis biofilms to trisodium phosphate. Korber DR, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3352–8

Inhibition by ethanol of the growth of biofilm and dispersed microcosm dental plaques. Sissons CH, et al.
Arch Oral Biol 1996 Jan;41(1):27–34

The influence of azithromycin on the biofilm formation of Pseudomonas aeruginosa in vitro. Ichimiya T, et al.
Chemotherapy 1996 May–Jun;42(3):186–91

Role of bacterial biofilms in the chemotherapy of cholangitis with brown pigment stones. Uetera Y, et al.
Chemotherapy 1996 Sep–Oct;42(5):363–73

A chemical treatment regimen to reduce bacterial contamination in dental waterlines. Eleazer PD, et al.
J Am Dent Assoc 1997 May;128(5):617–23

The effect of chlorhexidine on defined, mixed culture oral biofilms grown in a novel model system. Kinniment SL, et al. **J Appl Bacteriol** 1996 Aug;81(2):120–5

Susceptibilities of Actinobacillus actinomycetemcomitans biofilms to oral antiseptics. Thrower Y, et al.
J Med Microbiol 1997 May;46(5):425–9

Effects of metronidazole on Porphyromonas gingivalis biofilms. Wright TL, et al. **J Periodontal Res** 1997 Jul; 32(5):473–7

[Bacterial biofilms and resistance to disinfectants] Vidal DR, et al. **Ann Pharm Fr** 1997;55(2):49–54 (28 ref.) (Eng. Abstr.) **(Fre)**

GROWTH & DEVELOPMENT

Cell density–regulated recovery of starved biofilm populations of ammonia–oxidizing bacteria. Batchelor SE, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2281–6

Effect of growth conditions and substratum composition on the persistence of coliforms in mixed–population biofilms. Camper AK, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4014–8

Ingredient selection for plastic composite supports for L–(+)–lactic acid biofilm fermentation by Lactobacillus casei subsp. rhamnosus. Ho KL, et al.
Appl Environ Microbiol 1997 Jul;63(7):2516–23

Effects of plasma on adhesion of biofilm forming Pseudomonas aeruginosa and Staphylococcus epidermidis to fibrin substrate. Benson DE, et al. **ASAIO J** 1996 Sep–Oct;42(5):M655–60

Corrosion of the intra–oral magnets by multi–species biofilms in the presence and absence of sucrose. Wilson M, et al.
Biomaterials 1997 Jan;18(1):53–7

Long–term urethral catheterization and the urine–biomaterial interface. Elves AW, et al. **Br J Urol** 1997 Jul;80(1):1–5 (39 ref.)

Which indwelling urethral catheters resist encrustation by Proteus mirabilis biofilms? Morris NS, et al. **Br J Urol** 1997 Jul;80(1):58–63

A method for the quantitative site–specific study of the biochemistry within dental plaque biofilms formed in vivo. Robinson C, et al. **Caries Res** 1997;31(3):194–200

Effect of the growth rate of Pseudomonas aeruginosa biofilms on the susceptibility to antimicrobial agents. Shigeta M, et al. **Chemotherapy** 1997 Mar–Apr;43(2):137–41

Adherence of Staphylococcus aureus slime–producing strain variants to biomaterials used in orthopaedic surgery. Gracia E, et al. **Int Orthop** 1997;21(1):46–51

Influence of N–acetylcysteine on the formation of biofilm by Staphylococcus epidermidis. Pérez–Giraldo C, et al.
J Antimicrob Chemother 1997 May;39(5):643–6

Biofilm formation by the enterobacteriaceae: a comparison between salmonella enteritidis, Escherichia coli and a nitrogen–fixing strain of Klebsiella pneumoniae. Jones K, et al. **J Appl Bacteriol** 1996 Apr;80(4):458–64

Synergism in biofilm formation between Salmonella enteritidis and a nitrogen–fixing strain of Klebsiella pneumoniae. Jones K, et al. **J Appl Microbiol** 1997 May; 82(5):663–8

Metal selectivity of in situ microcolonies in biofilms of the Elbe river. Lünsdorf H, et al. **J Bacteriol** 1997 Jan; 179(1):31–40

Bacterial colonization of barrier material and periodontal regeneration. De Sanctis M, et al. **J Clin Periodontol** 1996 Nov;23(11):1039–46

Assay for bacteria in porous media by diffusion–weighted NMR. Potter K, et al. **J Magn Reson B** 1996 Oct; 113(1):9–15

Effects of salivary or serum pellicles on the Candida albicans growth and biofilm formation on soft lining materials in vitro. Nikawa H, et al. **J Oral Rehabil** 1997 Aug; 24(8):594–604

The dynamics of microbial colonization of barrier membranes for guided tissue regeneration. Nowzari H, et al.
J Periodontol 1996 Jul;67(7):694–702

The effect of surface roughness on early in vivo plaque colonization on titanium. Rimondini L, et al.
J Periodontol 1997 Jun;68(6):556–62

Mixed lipid–protein films of bacterial photosynthetic reaction centres. II. Mixed multilayers on solid supports. Kalabina NA, et al. **Membr Cell Biol** 1997;10(5):535–41

Effect of oxygen, inoculum composition and flow rate on development of mixed–culture oral biofilms. Bradshaw DJ, et al. **Microbiology** 1996 Mar;142 (Pt 3):623–9

Development of a steady–state oral microbial biofilm community using the constant–depth film fermenter. Kinniment SL, et al. **Microbiology** 1996 Mar;142 (Pt 3):631–8

Biofilm formation by Acinetobacter baumannii. Vidal R, et al. **Microbios** 1996;86(346):49–58

Molecular basis of intercellular adhesion in the biofilm–forming Staphylococcus epidermidis. Heilmann C, et al. **Mol Microbiol** 1996 Jun;20(5):1083–91

Microbial interactions with catheter material. Lewis WJ, et al. **Nutrition** 1997 Apr;13(4 Suppl):5S–9S (49 ref.)

Unsticking bacteria: strategies for biofilm control. Suchett–Kaye G, et al. **Trends Microbiol** 1996 Jul; 4(7):257–8

[Efficacy of erythromycin inhalation in chronic respiratory infection caused by Pseudomonas aeruginosa] Yanagihara K, et al. **Kansenshogaku Zasshi** 1997 Apr;71(4):337–41 (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

The effect of ultrasonic frequency upon enhanced killing of P. aeruginosa biofilms. Qian Z, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):69–76

Effect of low–intensity ultrasound upon biofilm structure from confocal scanning laser microscopy observation. Qian Z, et al. **Biomaterials** 1996 Oct;17(20):1975–80

Phototoxicity of argon laser irradiation on biofilms of Porphyromonas and Prevotella species. Henry CA, et al.
J Photochem Photobiol B 1996 Jul;34(2–3):123–8

BIOFILTRATION, ACETATE–FREE see
HEMODIAFILTRATION

BIOFLAVONOIDS

Flavonoids and heart disease [editorial; comment] Katan MB. **Am J Clin Nutr** 1997 May;65(5):1542–3. Comment on: Am J Clin Nutr 1997 May;65(5):1489–94.

Dietary antioxidant flavonoids and coronary heart disease. Nair S, et al. **J Assoc Physicians India** 1996 Oct; 44(10):699–702 (31 ref.)

Epidemiological evidence on potential health properties of flavonoids. Hertog MG. **Proc Nutr Soc** 1996 Mar; 55(1B):385–97 (53 ref.)

ADMINISTRATION & DOSAGE

Effect of tea flavonoid supplementation on the susceptibility of low–density lipoprotein to oxidative modification. Ishikawa T, et al. **Am J Clin Nutr** 1997 Aug;66(2):261–6

Flavinoids, vitamins and stroke [news] **J Neurosci Nurs** 1996 Aug;28(4):274

Antioxidant flavonols and coronary heart disease risk [letter] Hertog MG, et al. **Lancet** 1997 Mar 8;349(9053):699

[The chronobiology and clinical efficacy of Daflon in the treatment of chronic venous insufficiency] Menyhelyi G, et al. **Ter Arkh** 1997;69(4):46–8 **(Rus)**

ADVERSE EFFECTS

[Lymphocytic colitis caused by Cyclo 3 Fort (letter)] Bouaniche M, et al. **Rev Med Interne** 1996;17(9):776–8 **(Fre)**

ANALYSIS

Isotope dilution gas chromatographic–mass spectrometric method for the determination of isoflavonoids, coumestrol, and lignans in food samples. Mazur W, et al.
Anal Biochem 1996 Jan 15;233(2):169–80

High–performance liquid chromatography/continuous–flow liquid secondary ion mass spectrometry of flavonoid

glycosides in leguminous plant extracts. Sumner LW, et al. **J Mass Spectrom** 1996 May;31(5):472–85
[Standardization of the birch leaf] Carnat A, et al. **Ann Pharm Fr** 1996;54(5):231–5 (Eng. Abstr.) **(Fre)**

BIOSYNTHESIS

Modification of flower colour via manipulation of P450 gene expression in transgenic plants. Holton TA. **Drug Metabol Drug Interact** 1995;12(3–4):359–68 (28 ref.)
BANYULS, a novel negative regulator of flavonoid biosynthesis in the Arabidopsis seed coat. Albert S, et al. **Plant J** 1997 Feb;11(2):289–99

BLOOD

The identification of flavonoids as glycosides in human plasma. Paganga G, et al. **FEBS Lett** 1997 Jan 13; 401(1):78–82

CHEMISTRY

Isolation and characterization of Guiera senegalensis J.F.Gmel. active principles. Ficarra R, et al. **Boll Chim Farm** 1997 May;136(5):454–9
A quantum chemical explanation of the antioxidant activity of flavonoids. van Acker SA, et al. **Chem Res Toxicol** 1996 Dec;9(8):1305–12
Structure–antioxidant activity relationships of flavonoids and phenolic acids [published erratum appears in Free Radic Biol Med 1996;21(3):417] Rice–Evans CA, et al. **Free Radic Biol Med** 1996;20(7):933–56
Antimalarial activity of extracts and fractions from Bidens pilosa and other Bidens species (Asteraceae) correlated with the presence of acetylene and flavonoid compounds. Brandão MG, et al. **J Ethnopharmacol** 1997 Jul;57(2):131–8
Protective effect of plant flavonoids on the oxidation of lecithin liposomes. Gabrielska J, et al. **Pharmazie** 1997 Feb; 52(2):170–1

ISOLATION & PURIFICATION

Characterization of flavonoids in extracts from four species of Epimedium by micellar electrokinetic capillary chromatography with diode–array detection. Liang HR, et al. **J Chromatogr Sci** 1997 Mar;35(3):117–25
Antimicrobial activity of flavonoids from leaves of Tagetes minuta. Tereschuk ML, et al. **J Ethnopharmacol** 1997 May; 56(3):227–32
Novel antiplatelet constituents from formosan moraceous plants. Lin CN, et al. **J Nat Prod** 1996 Sep;59(9):834–8
Antiplatelet flavonoids from seeds of Psoralea corylifolia. Tsai WJ, et al. **J Nat Prod** 1996 Jul;59(7):671–2
A new flavone glycoside with antimicrobial activity from Carduus pycnocephalus L. el–Lakany AM, et al. **Pharmazie** 1997 Jan;52(1):78–9
Antiviral flavonoids from Alkanna orientalis. elsohly HN, et al. **Planta Med** 1997 Aug;63(4):384
Phenolic and antibacterial constituents of Vahlia capensis [letter] Majinda RR, et al. **Planta Med** 1997 Jun; 63(3):268–70

METABOLISM

Antioxidant and chelating properties of flavonoids. Korkina LG, et al. **Adv Pharmacol** 1997;38:151–63 (80 ref.)
Haemolytic complement consumption by Parietaria pollen extracts in relation to peptide–bound flavonoids. Berrens L, et al. **Cell Mol Life Sci** 1997 Mar;53(3):275–8
Cytochromes P450 in phenylpropanoid metabolism. Werck–Reichhart D. **Drug Metabol Drug Interact** 1995; 12(3–4):221–43 (118 ref.)
Different energization mechanisms drive the vacuolar uptake of a flavonoid glucoside and a herbicide glucoside. Klein M, et al. **J Biol Chem** 1996 Nov 22;271(47):29666–71
Identification of flavonoid metabolites after oral administration to rats of a Ginkgo biloba extract. Pietta PG, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3; 673(1):75–80
Extraordinary stability of IgE–binding Parietaria pollen allergens in relation to chemically bound flavonoids. González Romano ML, et al. **Mol Immunol** 1996 Dec; 33(17–18):1287–93
Overview—flavonoids: a new family of benzodiazepine receptor ligands. Medina JH, et al. **Neurochem Res** 1997 Apr;22(4):419–25 (58 ref.)
Flavonols are not essential for fertilization in Arabidopsis thaliana. Ylstra B, et al. **Plant Mol Biol** 1996 Dec; 32(6):1155–8

PHARMACOKINETICS

Assessment of the bioavailability of micronutrients. Proceedings of an ILSI Europe Workshop. Norwich, United Kingdom, 25–26 March 1996. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S1–90
Bioavailability of flavonoids. Hollman PC. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S66–9 (37 ref.)
Comparative pharmacokinetics and bioavailability of flavonoid glycosides of Ginkgo biloba after a single oral administration of three formulations to healthy volunteers. Wójcicki J, et al. **Mater Med Pol** 1995 Oct–Dec;27(4):141–6

PHARMACOLOGY

Isoflavonoid compounds extracted from Pueraria lobata suppress alcohol preference in a pharmacogenetic rat model of alcoholism. Lin RC, et al. **Alcohol Clin Exp Res** 1996 Jun;20(4):659–63
Differences in the serum levels of acetaldehyde and cytotoxic acetaldehyde–albumin complexes after the consumption of red and white wine: in vitro effects of flavonoids, vitamin E, and other dietary antioxidants on cytotoxic complexes. Wickramasinghe SN, et al. **Alcohol Clin Exp Res** 1996 Aug; 20(5):799–803
The anti–inflammatory activity of Scutellaria rivularis extracts and its active components, baicalin, baicalein and wogonin. Lin CC, et al. **Am J Chin Med** 1996;24(1):31–6
Unexpected protection of glomerular mesangial cells from oxidant–triggered apoptosis by bioflavonoid quercetin. Yokoo T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F206–12
Microvascular reactivity after ischemia/reperfusion in the hamster cheek pouch: beneficial effects of different oral doses of S–5682 (Daflon 500 mg). Bouskela E, et al. **Angiology** 1997 Jan;48(1):33–7
Effects of oral administration of purified micronized flavonoid fraction on increased microvascular permeability induced by various agents and on ischemia/reperfusion in the hamster cheek pouch. Bouskela E, et al. **Angiology** 1997 May;48(5):391–9
Antioxidant effect of flavonoids. Catapano AL. **Angiology** 1997 Jan;48(1):39–44 (42 ref.)
Venous elasticity after treatment with Daflon 500 mg. Ibegbuna V, et al. **Angiology** 1997 Jan;48(1):45–9
Histopathological evaluation on the effect of red propolis on liver damage induced by CCl4 in rats. Merino N, et al. **Arch Med Res** 1996 Autumn;27(3):285–9
In vitro effects of a flavonoid–rich extract on LDL oxidation. Viana M, et al. **Atherosclerosis** 1996 Jun;123(1–2):83–91
Role of dietary flavonoids in protection against cancer and coronary heart disease. Hollman PC, et al. **Biochem Soc Trans** 1996 Aug;24(3):785–9 (29 ref.)
Antioxidant activities of flavonoids as bioactive components of food. Rice–Evans CA, et al. **Biochem Soc Trans** 1996 Aug;24(3):790–5 (22 ref.)
Potent antioxidant properties of novel apple–derived flavonoids with commercial potential as food additives. Ridgway T, et al. **Biochem Soc Trans** 1996 Aug;24(3):391S
Inhibition of liposomal lipid peroxidation by isoflavonoid type phyto–oestrogens from soybeans of different countries of origin. Wiseman H, et al. **Biochem Soc Trans** 1996 Aug; 24(3):392S
In vitro cytotoxic effect of some medicinal plants containing flavonoids. Trovato A, et al. **Boll Chim Farm** 1996 Apr; 135(4):263–6
Inhibition of proliferation of estrogen receptor–positive MCF–7 human breast cancer cells by flavonoids in the presence and absence of excess estrogen. So FV, et al. **Cancer Lett** 1997 Jan 30;112(2):127–33
Flavonoid–induced gastroprotection in rats: role of blood flow and leukocyte adherence. Blank MA, et al. **Digestion** 1997;58(2):147–54
Examination of coumarins, flavonoids and polysaccharopeptide for antibacterial activity. Ng TB, et al. **Gen Pharmacol** 1996 Oct;27(7):1237–40
Flavonoids as phospholipase A2 inhibitors: importance of their structure for selective inhibition of group II phospholipase A2. Lindahl M, et al. **Inflammation** 1997 Jun; 21(3):347–56
Synthesis of glycoconjugates by human diseased veins: modulation by procyanidolic oligomers. Drubaix I, et al. **Int J Exp Pathol** 1997 Apr;78(2):117–21
Behavioural effects of Passiflora incarnata L. and its indole alkaloid and flavonoid derivatives and maltol in the mouse. Soulimani R, et al. **J Ethnopharmacol** 1997 Jun;57(1):11–20
Antimicrobial activity of flavonoids from leaves of Tagetes minuta. Tereschuk ML, et al. **J Ethnopharmacol** 1997 May; 56(3):227–32
A non–radioactive assay system for screening for inhibitors of RNA–dependent reverse transcriptase activity; an analysis using aurintricarboxylic acid and plant flavonoids. Spedding G. **J Mol Recognit** 1996 Sep–Dec;9(5–6):499–502
Flavonoids as inhibitors or enhancers of the cytotoxicity of tumor necrosis factor–alpha in L–929 tumor cells. Habtemariam S. **J Nat Prod** 1997 Aug;60(8):775–8
Effects of flavonoids isolated from scutellariae radix on fibrinolytic system induced by trypsin in human umbilical vein endothelial cells. Kimura Y, et al. **J Nat Prod** 1997 Jun;60(6):598–601
Ability of different flavonoids to inhibit the procoagulant activity of adherent human monocytes. Lale A, et al. **J Nat Prod** 1996 Mar;59(3):273–6
Effects on cultured neonatal mouse calvaria of the flavonoids isolated from Boerhaavia repens. Li J, et al. **J Nat Prod** 1996 Nov;59(11):1015–8
A new flavone C–glycoside and antiplatelet and vasorelaxing flavones from Gentiana arisanensis. Lin CN, et al. **J Nat Prod** 1997 Aug;60(8):851–3
Trypanocidal flavonoids from Trixis vauthieri. Ribeiro A, et al. **J Nat Prod** 1997 Aug;60(8):836–41
Antiplatelet flavonoids from seeds of Psoralea corylifolia. Tsai WJ, et al. **J Nat Prod** 1996 Jul;59(7):671–2
Differential effects of flavonoids on testosterone–metabolizing cytochrome P450s. Dai R, et al. **Life Sci** 1997;61(7):PL75–80
Specific flavonoids promote intercellular root colonization of Arabidopsis thaliana by Azorhizobium caulinodans ORS571. Gough C, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):560–70
Flavonoids activate wild–type p53. Plaumann B, et al. **Oncogene** 1996 Oct 17;13(8):1605–14
In vitro anti–complementary activity of flavonoids from olive (Olea europaea L.) leaves. Pieroni A, et al. **Pharmazie** 1996 Oct;51(10):765–8
Smooth muscle relaxing flavonoids and terpenoids from Conyza filaginoides. Mata R, et al. **Planta Med** 1997 Feb; 63(1):31–5
Bioactivity of flavonoids. Robak J, et al. **Pol J Pharmacol** 1996 Nov–Dec;48(6):555–64 (65 ref.)
Modulating effects of flavonoids on food mutagens in human blood and sperm samples in the comet assay. Anderson D, et al. **Teratog Carcinog Mutagen** 1997;17(2):45–58
[Natural flavonoids as dietary antioxidants and biologically active additives] Tiukavkina NA, et al. **Vopr Pitan** 1996; (2):33–8 (55 ref.) (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Efficacy of Daflon 500 mg in venous leg ulcer healing: a double–blind, randomized, controlled versus placebo trial in 107 patients. Guilhou JJ, et al. **Angiology** 1997 Jan; 48(1):77–85
Efficacy of Daflon 500 mg in the treatment of lymphedema (secondary to conventional therapy of breast cancer). Pecking AP, et al. **Angiology** 1997 Jan;48(1):93–8
Dietary bioflavonoids, chalcones, and related alkenones in prevention and treatment of cancer [editorial] Varma RS. **Nutrition** 1996 Sep;12(9):643–5 (28 ref.)
Effect of flavonoids on the outcome of myocardial mitochondrial ischemia/reperfusion injury. van Jaarsveld H, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan; 91(1):65–75
[The clinical efficacy of tanakan in patients with stage–I atherosclerotic circulatory encephalopathy] Rudenko AE, et al. **Lik Sprava** 1997 Mar–Apr;(2):99–101 **(Rus)**
[The combined pharmacological correction of oxidative homeostasis in a hypoxic syndrome] Savchenkova LV. **Lik Sprava** 1996 Mar–Apr;(3–4):117–20 (Eng. Abstr.) **(Rus)**
[The drug therapy of chronic venous insufficiency (a trial of the clinical use of the preparation Detralex)] Iablokov EG, et al. **Ter Arkh** 1996;68(10):80–1 (Eng. Abstr.) **(Rus)**

BIOGENESIS

Elements of a unifying theory of biology. Norris V, et al. **Acta Biotheor** 1996 Nov;44(3–4):209–18 (60 ref.)
Molecular evolution in bacteria: surfaces, cathodes and anodes. Trevors JT. **Antonie Van Leeuwenhoek** 1997 May; 71(4):363–8
Novel intron–encoded small nucleolar RNAs with long sequence complementarities to mature rRNAs involved in ribosome biogenesis. Bachellerie JP, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):835–43 (30 ref.)
Genetic information 'created' by archaebacterial DNA polymerase. Ogata N, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):667–71
Origin of life and the underlying physics of the universe. Conrad M. **Biosystems** 1997;42(2–3):177–90 (24 ref.)
Origin of biochemical organization. Lyubarev AE, et al. **Biosystems** 1997;42(2–3):103–10
Molecular semantics and the origin of life. Matsuno K. **Biosystems** 1997;42(2–3):129–39 (43 ref.)
The emergence of the non–cellular phase of life on the fine–grained clayish particles of the early Earth's regolith. Nussinov MD, et al. **Biosystems** 1997;42(2–3):111–8 (40 ref.)
Symbol grounding: a bridge from artificial life, to artificial intelligence. Thompson E. **Brain Cogn** 1997 Jun;34(1):48–71 (42 ref.)
Life on Mars: a clue to life on Earth? Brack A. **Chem Biol** 1997 Jan;4(1):9–12 (27 ref.)
Did minerals perform prebiotic combinatorial chemistry? Schwartz AW. **Chem Biol** 1996 Jul;3(7):515–8 (18 ref.)
Phylogenetic perspective on microbial life in hydrothermal ecosystems, past and present. Barns SM, et al. **Ciba Found Symp** 1996;202:24–32; discussion 32–9
The transfer of viable microorganisms between planets. Davies PC. **Ciba Found Symp** 1996;202:304–14; discussion 314–7 (32 ref.)
Chemical and physical context for life in terrestrial hydrothermal systems: chemical reactors for the early development of life and hydrothermal ecosystems. Henley RW. **Ciba Found Symp** 1996;202:61–76; discussion 76–82 (40 ref.)
Hydrothermal systems as environments for the emergence of life. Shock EL. **Ciba Found Symp** 1996;202:40–52; discussion 52–60 (42 ref.)
Hyperthermophiles in the history of life. Stetter KO. **Ciba Found Symp** 1996;202:1–10; discussion 11–8 (19 ref.)
Prebiotic evolution: selecting for homochirality before RNA. Schwartz AW. **Curr Biol** 1997 Aug 1;7(8):R477–9
The role of protein degradation in mitochondrial function and biogenesis. Rep M, et al. **Curr Genet** 1996 Nov; 30(5):367–80 (170 ref.)
Hypothesis: the thermosynthesis model for the origin of life and the emergence of regulation by Ca2+. Muller AW. **Essays Biochem** 1996;31:103–19 (34 ref.)
Sorting of gp80 (GPIII, clusterin), a marker protein for constitutive apical secretion in Madin–Darby canine kidney (MDCK) cells, into the regulated pathway in the

pheochromocytoma cell line PC12. Appel D, et al. **Eur J Cell Biol** 1996 Jun;70(2):142–9
On the crucial stages in the origin of animate matter. Lifson S. **J Mol Evol** 1997 Jan;44(1):1–8
Oparin's "Origin of Life": sixty years later. Miller SL, et al. **J Mol Evol** 1997 Apr;44(4):351–3
Major "anastrophes" in the origin and early evolution of biological energy conversion. Baltscheffsky H. **J Theor Biol** 1997 Aug 21;187(4):495–501
On the origin and evolution of life: an introduction. Baltscheffsky H, et al. **J Theor Biol** 1997 Aug 21; 187(4):453–9
On the appearance of function and organisation in the origin of life. Blomberg C. **J Theor Biol** 1997 Aug 21; 187(4):541–54
Evolution of the self-reproducing system to the biosynthesis of the membrane: an approach from the amino acid sequence similarity in proteins. Fukuchi S, et al. **J Theor Biol** 1996 Sep 21;182(2):117–36
Biogenesis itself. Gánti T. **J Theor Biol** 1997 Aug 21; 187(4):583–93
Chemical evolution and the primitive soup: did Oparin get it all right? [letter] Lazcano A. **J Theor Biol** 1997 Jan 21; 184(2):219–23
The origin of life: philosophical perspectives. Ruse M. **J Theor Biol** 1997 Aug 21;187(4):473–82
From replicators to reproducers: the first major transitions leading to life. Szathmáry E, et al. **J Theor Biol** 1997 Aug 21;187(4):555–71
The origin of life and its methodological challenge. Wächtershäuser G. **J Theor Biol** 1997 Aug 21;187(4):483–94
Facing creationist challenges. Walker PL. **Lancet** 1996 Nov 23;348(9039):1397–8
The first living systems: a bioenergetic perspective. Deamer DW. **Microbiol Mol Biol Rev** 1997 Jun;61(2):239–61 (166 ref.)
Red, cold and dead? [editorial] **Nat Struct Biol** 1997 Aug; 4(8):593–4
Dodging the rocks [editorial] **Nat Struct Biol** 1996 Dec; 3(12):975–6
Peptide nucleic acids and prebiotic chemistry [news] [see comments] Miller SL. **Nat Struct Biol** 1997 Mar;4(3):167–9 . Comment in: Nat Struct Biol 1997 Mar;4(3):159–60.
Carbon isotope evidence for early life [letter; comment] Eiler JM, et al. **Nature** 1997 Apr 17;386(6626):665. Comment on: Nature 1996 Nov 7;384(6604):55–9.
The earliest memories of life on Earth [news; comment] Hayes JM. **Nature** 1996 Nov 7;384(6604):21–2. Comment on: Nature 1996 Nov 7;384(6604):55–9.
Oxidative acylation using thioacids. Liu R, et al. **Nature** 1997 Sep 4;389(6646):52–4
Evidence for life on Earth before 3,800 million years ago [see comments] Mojzsis SJ, et al. **Nature** 1996 Nov 7; 384(6604):55–9. Comment in: Nature 1996 Nov 7;384(6604):21–2. Comment in: Nature 1997 Apr 17;386(6626):665.
Geologist loses 'creationism' challenge [news] Pockley P. **Nature** 1997 Jun 5;387(6633):540
Origins of life. The first two billion years [news] Száthmary E. **Nature** 1997 Jun 12;387(6634):662–3
The nature and evolution of interstellar ices. Chiar JE. **Orig Life Evol Biosph** 1997 Jun;27(1–3):79–100 (95 ref.)
Origins of life: a comparison of theories and application to Mars. Davis WL, et al. **Orig Life Evol Biosph** 1996 Feb; 26(1):61–73 (105 ref.)
Vestiges of early molecular processes leading to the genetic code. Ferreira R, et al. **Orig Life Evol Biosph** 1997 Aug; 27(4):397–403
The early solar system. Gaffey MJ. **Orig Life Evol Biosph** 1997 Jun;27(1–3):185–203 (39 ref.)
Habitable zones around low mass stars and the search for extraterrestrial life. Kasting JF. **Orig Life Evol Biosph** 1997 Jun;27(1–3):291–307 (51 ref.)
The search for life on Mars. McKay CP. **Orig Life Evol Biosph** 1997 Jun;27(1–3):263–89 (123 ref.)
Detection of organic matter in interstellar grains. Pendleton YJ. **Orig Life Evol Biosph** 1997 Jun;27(1–3):53–78 (108 ref.)
Circumstellar and interstellar synthesis of organic molecules. Tielens AG, et al. **Orig Life Evol Biosph** 1997 Jun; 27(1–3):23–51 (149 ref.)
Origin of the biologically important elements. Trimble V. **Orig Life Evol Biosph** 1997 Jun;27(1–3):3–21 (50 ref.)
Is extraterrestrial organic matter relevant to the origin of life on Earth? Whittet DC. **Orig Life Evol Biosph** 1997 Jun;27(1–3):249–62 (50 ref.)
The emergence of form by replication. Velarde MG, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5024–7
Prebiotic chemistry. Where smokers rule [comment] Crabtree RH. **Science** 1997 Apr 11;276(5310):222. Comment on: Science 1997 Apr 11;276(5310):245–7.
Activated acetic acid by carbon fixation on (Fe,Ni)S under primordial conditions [see comments] Huber C, et al. **Science** 1997 Apr 11;276(5310):245–7. Comment in: Science 1997 Apr 11;276(5310):222.
Primordial soup researchers gather at watering hole [news] Lewis R. **Science** 1997 Aug 22;277(5329):1034–5
"Killer" impacts and life's origins [letter] Tiedemann H. **Science** 1997 Sep 12;277(5332):1687–8
The origin of the genetic code [letter; comment] Di Giulio M. **Trends Biochem Sci** 1997 Feb;22(2):49–50 (23 ref.). Comment on: Trends Biochem Sci 1996 Jun;21(6):199–200.
Plural origins of molecular homochirality in our biota Part II. The relative stabilities of homochiral and mixed oligoribotides and peptides. Soares TA, et al. **Z Naturforsch [C]** 1997 Jan–Feb;52(1–2):89–96

BIOGENIC AMINE NEUROTRANSMITTERS

see related
RECEPTORS, BIOGENIC AMINE

ANALYSIS

Microbore liquid chromatography analysis of monoamine transmitters. Sarre S, et al. **Methods Mol Biol** 1997; 72:185–96
The effect of the selective reversible acetylcholinesterase inhibitor E2020 on extracellular acetylcholine and biogenic amine levels in rat cortex. Giacobini E, et al. **Neuropharmacology** 1996 Feb;35(2):205–11

BLOOD

Effect of PDGF and TGF-beta on the release of biogenic amines from invertebrate immunocytes and their possible role in the stress response. Ottaviani E, et al. **FEBS Lett** 1997 Feb 24;403(3):236–8
Evaluation of stress-related hormones after surgery by laparoscopy or laparotomy. Muzii L, et al. **J Am Assoc Gynecol Laparosc** 1996 Feb;3(2):229–34

CEREBROSPINAL FLUID

Cerebrospinal fluid neuropeptides and monoaminergic transmitters in patients with trigeminal neuralgia. Strittmatter M, et al. **Headache** 1997 Apr;37(4):211–6

METABOLISM

Endurance training effects on neurotransmitter release in rat striatum: an in vivo microdialysis study. Meeusen R, et al. **Acta Physiol Scand** 1997 Apr;159(4):335–41
Amine neurotransmitter levels in male and female rats through developmental periods. Valencia-Sánchez A, et al. **Arch Androl** 1997 Jul–Aug;39(1):79–83
A molecular analysis of vesicular amine transport. Liu Y, et al. **Behav Brain Res** 1996;73(1–2):51–8 (76 ref.)
Activity wheel running reduces escape latency and alters brain monoamine levels after footshock. Dishman RK, et al. **Brain Res Bull** 1997;42(5):399–406
Monoamine neurotransmitter metabolites and spontaneous recurrence of methamphetamine psychosis. Yui K, et al. **Brain Res Bull** 1997;43(1):25–33
Alterations in mRNA expression of systems that regulate neurotransmitter synaptic content in seizure-naive genetically epilepsy-prone rat (GEPR): transporter proteins and rate-limiting synthesizing enzymes for norepinephrine, dopamine and serotonin. Szot P, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):233–45
Effects of intracerebroventricular administration of 5-(glutathion-S-yl)-alpha-methyldopamine on brain dopamine, serotonin, and norepinephrine concentrations in male Sprague-Dawley rats. Miller RT, et al. **Chem Res Toxicol** 1996 Mar;9(2):457–65
Twenty-four-hour rhythms of serum ACTH, prolactin, growth hormone, and thyroid-stimulating hormone, and of median-eminence norepinephrine, dopamine, and serotonin, in rats injected with Freund's adjuvant. Selgas L, et al. **Chronobiol Int** 1997 May;14(3):253–65
Age-related changes in cerebral and peripheral monoamine contents in stroke-prone spontaneously hypertensive rats. Uchida T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S80–2
Molecular analysis of neurotransmitter transport into secretory vesicles. Liu Y, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:747–58 (113 ref.)
Monoamine neurotransmitter transport mediated by the polyspecific cation transporter rOCT1. Busch AE, et al. **FEBS Lett** 1996 Oct 21;395(2–3):153–6
Brain monoaminergic and neuropeptidergic variations in human aging. Arranz B, et al. **J Neural Transm** 1996; 103(1–2):101–15
Alcohol exposure during development alters hypothalamic neurotransmitter concentrations. Kelly SJ. **J Neural Transm** 1996;103(1–2):55–67
Effects of clobenpropit (VUF-9153), a histamine H3-receptor antagonist, on learning and memory, and on cholinergic and monoaminergic systems in mice. Miyazaki S, et al. **Life Sci** 1997;61(4):355–61
Neuropeptide Y perfused in the preoptic area of rats shifts extracellular efflux of dopamine, norepinephrine, and serotonin during hypothermia and feeding. Myers RD, et al. **Neurochem Res** 1996 Jun;21(6):637–48
Changes in monoamines and their metabolite concentrations in REM sleep-deprived rat forebrain nuclei. Farooqui SM, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):385–91
Changes in behavior and monoamine levels in microdialysate from dorsal striatum after 6-OHDA infusions into ventral striatum. Tran-Nguyen LT, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):141–50
The antiopioid peptide, neuropeptide FF, enhances the effects of acute morphine on the cerebral monoamines in rats. Attila M, et al. **Pharmacol Res** 1995 Nov;32(5):293–8
Pharmacological analysis of local anaesthetic tolycaine-induced convulsions by modification of monoamines in rat brain. Satoh T, et al. **Pharmacol Toxicol** 1996 Dec;79(6):305–11
A juvenile case of frontotemporal dementia: neurochemical and neuropathological investigations. Nagaoka S, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1251–61
Effects of footshock stress on regional brain monoamine metabolism and the acquisition of conditioned freezing in rats previously exposed to repeated methamphetamine. Tsuchiya K, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1239–50
[Effect of yougui yin on the content of monoaminic transmitters and body weight, food and fluid intake in corticosterone-rats] Cai DF, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Dec; 15(12):728–31 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Monoamine neurotransmitter transport mediated by the polyspecific cation transporter rOCT1. Busch AE, et al. **FEBS Lett** 1996 Oct 21;395(2–3):153–6

PHYSIOLOGY

Direct evidence for the link between monoaminergic descending pathways and motor activity. I. A study with microdialysis probes implanted in the ventral funiculus of the spinal cord. Gerin C, et al. **Brain Res** 1995 Dec 18; 704(2):191–201
Centrally mediated hemodynamic effects of cocaine in rabbits: the role of local anesthetic actions and biogenic amine re-uptake blockage. Bernards CM. **Eur J Pharmacol** 1996 Jun 20;307(1):33–9
Endogenous monoamines inhibit glutamate transmission in the spinal trigeminal nucleus of the guinea-pig. Travagli RA, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):177–85
Long-lasting facilitation of inhibitory transmission by monoaminergic and cAMP-dependent mechanism in rat cerebellar GABAergic synapses. Mitoma H, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):141–4
Insect neurotransmission: neurotransmitters and their receptors. Osborne RH. **Pharmacol Ther** 1996;69(2):117–42 (429 ref.)
Neuropeptides, amines and amino acids in an elementary insect ganglion: functional and chemical anatomy of the unfused abdominal ganglion. Nässel DR. **Prog Neurobiol** 1996 Mar-Apr;48(4–5):325–420 (360 ref.)

BIOGENIC AMINE RECEPTORS see **RECEPTORS, BIOGENIC AMINE**

BIOGENIC AMINES

see related
BIOGENIC AMINE NEUROTRANSMITTERS
RECEPTORS, BIOGENIC AMINE

ANALYSIS

Quantitative in vivo monitoring of primary amines in rat caudate nucleus using microdialysis coupled by a flow-gated interface to capillary electrophoresis with laser-induced fluorescence detection. Lada MW, et al. **Anal Chem** 1996 Sep 1;68(17):2790–7
Catecholaminergic and serotoninergic fibres innervate the ventricular system of the hedgehog CNS. Michaloudi HC, et al. **J Anat** 1996 Oct;189 (Pt 2):273–83
High-performance liquid chromatographic evaluation of biogenic amines in foods. An analysis of different methods of sample preparation in relation to food characteristics. Moret S, et al. **J Chromatogr A** 1996 Apr 5;729(1–2):363–9
Separation and determination of amino acids, creatinine, bioactive amines and nucleic acid bases by dual-mode gradient ion-pair chromatography. Yokoyama Y, et al. **J Chromatogr A** 1996 Jul 19;739(1–2):333–42
Presence of norepinephrine and other biogenic amines in stonefish venom. Garnier P, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):364–9
High-performance liquid chromatographic determination of biogenic amines in fish implicated in food poisoning. Hwang DF, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):23–9
4-(6-methoxy-2-naphthyl)-2-butyl chloroformate enantiomers: new reagents for the enantiospecific analysis of amino compounds in biogenic matrices. Büschges R, et al. **J Pharm Biomed Anal** 1996 Nov;15(2):201–20
Behaviour of resolution by changing solvent strength and selectivity in the 'PRISMA' model using reversed-phase HPLC for biogenic amines. Outinen K, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):819–29
GC/MS determination of biogenic amines in insect neurons. Watson DG, et al. **Methods Mol Biol** 1997;72:225–37
Biogenic amines in Spanish beers: differences among breweries. Izquierdo-Pulido M, et al. **Z Lebensm Unters Forsch** 1996 Dec;203(6):507–11

BIOSYNTHESIS

Effects of MF-268, a new cholinesterase inhibitor, on acetylcholine and biogenic amines in rat cortex. Zhu XD, et al. **J Neurosci Res** 1996 Jan 1;43(1):120–6

Benzodiazepine prevention of swim stress-induced sensitization of cortical biogenic amines: an in vivo microdialysis study. Petty F, et al. **Neurochem Res** 1997 Sep;22(9):1101-4

BLOOD

Changes in circulatory biogenic amines during head-up tilt testing in neurocardiogenic syncope. Bhargava B, et al. **Indian Heart J** 1996 Nov-Dec;48(6):659-62

CEREBROSPINAL FLUID

CSF of neuroleptic-naive first-episode schizophrenic patients: levels of biogenic amines, substance P, and peptides derived from chromogranin A (GE-25) and secretogranin II (secretoneurin). Miller C, et al. **Biol Psychiatry** 1996 Jun 1;39(11):911-8

The relationship between urine excretion and biogenic amines and their metabolites in cerebrospinal fluid of schizophrenic patients [published erratum appears in Schizophr Res 1996 Dec 15;22(3):267] Prell GD, et al. **Schizophr Res** 1996 May; 19(2-3):171-6

ISOLATION & PURIFICATION

Capillary zone electrophoresis at subzero temperatures II: chiral separation of biogenic amines. Ma S, et al. **Electrophoresis** 1997 Jun;18(6):873-83

METABOLISM

The diverse layout of amine-containing systems in the ventral cord of an insect. Schürmann FW, et al. **Acta Biol Hung** 1995;46(2-4):485-90

Rearing experience and biogenic amine activity in infant rhesus monkeys. Clarke AS, et al. **Biol Psychiatry** 1996 Sep 1;40(5):338-52

Catecholamines and indoleamines in the central nervous system of a urodele amphibian: a microdissection study with emphasis on the distribution of epinephrine. Lowry CA, et al. **Brain Behav Evol** 1996;48(2):70-93

Time-course alterations of monoamine levels and cerebral blood flow in brain regions after subarachnoid hemorrhage in rats. Saida A, et al. **Brain Res Bull** 1997;43(1):69-80

Pulmonary metabolism of biogenic amines. Akber SF. **Compr Ther** 1997 Apr;23(4):254-8 (32 ref.)

Mechanism-based inactivation of mouse hepatic cytochrome P4502B enzymes by amine metabolites of musk xylene. Lehman-McKeeman LD, et al. **Drug Metab Dispos** 1997 Mar;25(3):384-9

Amine precursor uptake and decarboxylation: significance for processing of the rat gastrin precursor. Voronina S, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):363-74

Serotonergic activity of HP 184: does spontaneous release have a role? Smith CP, et al. **Neurochem Res** 1996 May; 21(5):575-83

A microdialysis study of the effects of the nicotinic agonist RJR-2403 on cortical release of acetylcholine and biogenic amines. Summers KL, et al. **Neurochem Res** 1996 Oct; 21(10):1181-6

Simultaneous measurement of biogenic amines and their metabolites in rat brain regions after acute administration of and abrupt withdrawal from butorphanol or morphine. Wakabayashi H, et al. **Neurochem Res** 1995 Oct; 20(10):1179-85

Cytokine effects on CNS biogenic amines. Dunn AJ, et al. **Neuroimmunomodulation** 1995 Nov-Dec;2(6):319-28 (78 ref.)

Effect of chronic pretreatment with the sigma ligand JO 1784 on CRF-induced changes in behaviour, neurotransmitter and immunological function in the rat. Song C, et al. **Neuropsychobiology** 1997;35(4):200-4

Biogenic amine content in the brains of rats with different levels of resistance to emotional stress. Gorbunova AV, et al. **Neurosci Behav Physiol** 1997 Mar-Apr;27(2):145-52

Effects of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine and 5,7-dihydroxytryptamine on the locomotor activity and striatal amines in C57BL/6 mice. Chia LG, et al. **Neurosci Lett** 1996 Oct 25;218(1):67-71

Naloxone-precipitated changes in biogenic amines and their metabolites in various brain regions of butorphanol-dependent rats. Tokuyama S, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):461-8

Concentrations of biogenic amines in fundal layers in chickens with normal visual experience, deprivation, and after reserpine application. Ohngemach S, et al. **Vis Neurosci** 1997 May-Jun;14(3):493-505

[The state of biogenic amines in rats with experimental chronic allergic encephalitis] Malyshev II, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):471-2 **(Rus)**

[N-acetylation of biogenic amines in Drosophila virilis] Sukhanova MZh, et al. **Genetika** 1997 Jun;33(6):788-92 (Eng. Abstr.) **(Rus)**

[Taurine induces an imbalance in the pool of neuroactive amino acids and biogenic amines in regions of the brain] Nefedov LI, et al. **Ukr Biokhim Zh** 1996 Jan-Feb; 68(1):21-6 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

The influence of ammonia, biogenic amines and gamma-aminobutyric acid on grass silage intake in sheep. Van Os M, et al. **Br J Nutr** 1996 Sep;76(3):347-58

Mechanism-based inactivation of mouse hepatic cytochrome P4502B enzymes by amine metabolites of musk xylene. Lehman-McKeeman LD, et al. **Drug Metab Dispos** 1997 Mar;25(3):384-9

PHYSIOLOGY

Psychobiology of early social attachment in rhesus monkeys. Clinical implications. Kraemer GW. **Ann N Y Acad Sci** 1997 Jan 15;807:401-18 (34 ref.)

Regulation of pyridoxal-5'-phosphate level by biogenic amines in mouse brain. Asakura T, et al. **Neurochem Res** 1996 Jan;21(1):47-50

Involvement of biogenic amines and amino acids in the central regulation of cardiovascular homeostasis. Singewald N, et al. **Trends Pharmacol Sci** 1996 Oct; 17(10):356-63 (50 ref.)

BIOGENIC MONOAMINES

ANALYSIS

The organization of monoamine neurons within the brainstem of the North American opossum (Didelphis virginiana). Crutcher KA, et al. **J Comp Neurol** 1978 May 1; 179(1):195-221

Short term storage of samples containing monoamines: ascorbic acid and glutathione give better protection against degradation than perchloric acid. Boix F, et al. **J Neurosci Methods** 1997 Jul 18;75(1):69-73

The effects of aminorex and related compounds on brain monoamines and metabolites in CBA mice. Zheng Y, et al. **J Pharm Pharmacol** 1997 Jan;49(1):89-96

Genetic alteration of alpha 2C-adrenoceptor expression in mice: influence on locomotor, hypothermic, and neurochemical effects of dexmedetomidine, a subtype-nonselective alpha 2-adrenoceptor agonist. Sallinen J, et al. **Mol Pharmacol** 1997 Jan;51(1):36-46

ANTAGONISTS & INHIBITORS

Roles of monoaminergic, glycinergic and GABAergic inhibitory systems in the spinal cord in rats with peripheral mononeuropathy. Satoh O, et al. **Brain Res** 1996 Jul 22; 728(1):27-36

Region- and neurotransmitter-dependent species and strain differences in DSP-4-induced monoamine depletion in rodents. Fornai F, et al. **Neurodegeneration** 1996 Sep; 5(3):241-9

BIOSYNTHESIS

Acetaldehyde-induced changes in monoamine and amino acid extracellular microdialysate content of the nucleus accumbens. Ward RJ, et al. **Neuropharmacology** 1997 Feb; 36(2):225-32

BLOOD

First-episode neuroleptic-free schizophrenics: concentrations of monoamines and their metabolites in plasma and their correlations with clinical responses to haloperidol treatment. Nagaoka S, et al. **Biol Psychiatry** 1997 Apr 15; 41(8):857-64

Effects of amitriptyline on rat plasma and brain content of monoamine precursors and other large neutral amino acids. Eriksson T, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):1007-14

CEREBROSPINAL FLUID

Dopamine-related genes and their relationships to monoamine metabolites in CSF. Jönsson E, et al. **Biol Psychiatry** 1996 Nov 15;40(10):1032-43

Comparison of cerebrospinal fluid monoamine metabolite levels in dominant-aggressive and non-aggressive dogs. Reisner IR, et al. **Brain Res** 1996 Apr 1;714(1-2):57-64

Monoamines and their metabolites in cerebrospinal fluid and temporal cortex of epileptic patients. Naffah-Mazzacoratti MG, et al. **Epilepsy Res** 1996 Oct;25(2):133-7

Somatostatin-like immunoreactivity, its molecular forms and monoaminergic metabolites in aged and demented patients with Parkinson's disease--effect of L-Dopa. Strittmatter M, et al. **J Neural Transm Gen Sect** 1996;103(5):591-602

Brain MRI, lumbar CSF monoamine concentrations, and clinical descriptors of patients with spinocerebellar ataxia mutations. Higgins JJ, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):591-5

Somatostatin, its molecular forms and monoaminergic transmitter metabolites in Binswanger's disease. Neurochemical-neuropathological considerations. Strittmatter M, et al. **Neurodegeneration** 1996 Dec; 5(4):359-66

CSF substance P somatostatin and monoaminergic transmitter metabolites in patients with narcolepsy. Strittmatter M, et al. **Neurosci Lett** 1996 Nov 1; 218(2):99-102

[Monoamines, monoamine metabolites, neuron specific enolase and myelin basic protein concentrations in cerebrospinal fluid of resuscitated patients] Takahashi T. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Feb; 17(1):7-16 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Monoamine fluorescence and electron microscopic studies on small intensely fluorescent (granule-containing) cells in human sympathetic ganglia. Chiba T. **J Comp Neurol** 1978 May 1;179(1):153-67

Thyrotropin releasing hormone prevents abnormalities of cortical acetylcholine and monoamines in mice following head injury. Tanaka K, et al. **Regul Pept** 1997 Jun 18; 70(2-3):173-8

METABOLISM

Genetically determined influences on voluntary ethanol consumption: extracellular levels of ethanol and monoamines in the nucleus accumbens of the alcohol preferring AA and alcohol avoiding ANA rat lines. Kiianmaa K, et al. **Alcohol Alcohol Suppl** 1994;2:73-8

Hypothalamic monoaminergic activity in obese Zucker rats in response to acute and chronic dietary stimuli. Specter SE, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E677-88

Neonatal ACTH administration elicits long-term changes in forebrain monoamine innervation. Subsequent disruptions in hypothalamic-pituitary-adrenal and gonadal function. Alves SE, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:226-51

The classification of bioamine receptors. How helpful are molecular phylogenies? Vernier P, et al. **Ann N Y Acad Sci** 1997 May 30;812:141-3 (1 ref.)

Cardiovascular, neuroendocrine, and monoaminergic responses to psychological stressors: possible differences between remitted panic disorder patients and healthy controls. Leyton M, et al. **Biol Psychiatry** 1996 Sep 1; 40(5):353-60

The disruption of spatial cognition and changes in brain amino acid, monoamine and acetylcholine in rats with transient cerebral ischemia. Iwasaki K, et al. **Brain Res** 1996 Feb 19;709(2):163-72

Effects of interleukin-1beta and mild stress on alterations of norepinephrine, dopamine and serotonin neurotransmission: a regional microdialysis study. Merali Z, et al. **Brain Res** 1997 Jul 4;761(2):225-35

Effect of anoxia on striatal monoamine metabolism in immature rat brain compared with that of hypoxia: an in vivo microdialysis study. Nakajima W, et al. **Brain Res** 1996 Nov 18;740(1-2):316-22

Repeated interferon-alpha administration inhibits dopaminergic neural activity in the mouse brain. Shuto H, et al. **Brain Res** 1997 Feb 7;747(2):348-51

BDNF increases monoaminergic activity in rat brain following intracerebroventricular or intraparenchymal administration. Siuciak JA, et al. **Brain Res** 1996 Feb 26; 710(1-2):11-20

Neonatal androgen manipulation differentially affects the development of monoamine systems in rat cerebral cortex, amygdala and hypothalamus. Siddiqui A, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):247-52

Central nervous system monoamine neurotransmitter turnover in primary and obesity-related human hypertension. Esler M, et al. **Clin Exp Hypertens** 1997 Jul-Aug;19(5-6):577-90 (24 ref.)

Brain monoamines in aggression and sleep. Reis DJ. **Clin Neurosurg** 1971;18:471-502

Brain monoamines and optokinetic performances in pigmented and albino rats. Cransac H, et al. **Comp Biochem Physiol A Physiol** 1997 Apr;116(4):341-9

Biogenic monoamines in the freshwater snail, Biomphalaria glabrata: influence of infection by the human blood fluke, Schistosoma mansoni. Manger P, et al. **Comp Biochem Physiol A Physiol** 1996 Jul;114(3):227-34

Profile of monoamine and excitatory amino acid release in rat supraoptic nucleus over parturition. Herbison AE, et al. **Endocrinology** 1997 Jan;138(1):33-40

Effects of non-toxic and toxic concentrations of phenytoin on monoamines levels in rat brain. Okada M, et al. **Epilepsy Res** 1997 Sep;28(2):155-63

Glial cell line-derived neurotrophic factor: the lateral cerebral ventricle as a site of administration for stimulation of the substantia nigra dopamine system in rats. Martin D, et al. **Eur J Neurosci** 1996 Jun;8(6):1249-55

Intranigral or intrastriatal injections of GDNF: effects on monoamine levels and behavior in rats. Martin D, et al. **Eur J Pharmacol** 1996 Dec 19;317(2-3):247-56

Extracellular monoamines and their metabolites in the mediobasal hypothalamus--median eminence of anestrous and estrous ewes during CRF treatment. Tomaszewska D, et al. **Exp Clin Endocrinol Diabetes** 1997;105(3):175-81

The metabolism of biogenic monoamines during embryogenesis and metamorphosis in two anuran species. Takeda N. **Gen Comp Endocrinol** 1997 Jun;106(3):361-73

2, 4-dichloro phenoxy acetic acid alters monoamine levels, acetylcholinesterase activity & operant learning in rats. Lakshmana MK, et al. **Indian J Med Res** 1996 Sep; 104:234-9

Postnatal changes of brain monoamine levels in prenatally malnourished and control rats. Chen JC, et al. **Int J Dev Neurosci** 1997 Apr;15(2):257-63

The depletion of monoamines blocks the sympathoinhibitory response to cocaine. Abrahams TP, et al. **J Auton Nerv Syst** 1996 May 6;58(3):170-6

Transcranial magnetic stimulation induces alterations in brain monoamines. Ben-Shachar D, et al. **J Neural Transm** 1997; 104(2-3):191-7

Motor actions of eliprodil in the normal and monoamine-depleted mouse: a role in the treatment of Parkinson's disease? Brooks S, et al. **J Neural Transm Gen Sect** 1996;103(6):737-48

Antiparkinsonian effect of flupirtine in monoamine-depleted

rats. Schwarz M, et al. **J Neural Transm Gen Sect** 1996; 103(5):581–90

Monoamine metabolism in the locus coeruleus measured concurrently with behavior during opiate withdrawal: an in vivo microdialysis study in freely moving rats. Javelle N, et al. **J Neurochem** 1997 Feb;68(2):683–90

Photoperiodic modulation of monoamines and amino–acids involved in the control of prolactin and LH secretion in the ewe: evidence for a regulation of tyrosine hydroxylase activity. Viguié C, et al. **J Neuroendocrinol** 1996 Jun; 8(6):465–74

The metabolism of L–DOPA and L–threo–3,4–dihydroxyphenylserine and their effects on monoamines in the human brain: analysis of the intraventricular fluid from parkinsonian patients. Maruyama W, et al. **J Neurol Sci** 1996 Jul;139(1):141–8

Effects of amitriptyline on rat plasma and brain content of monoamine precursors and other large neutral amino acids. Eriksson T, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):1007–14

S 15535, a novel benzodioxopiperazine ligand of serotonin (5–HT)1A receptors: I. Interaction with cloned human (h)5–HT1A, dopamine hD2/hD3 and h alpha2A–adrenergic receptors in relation to modulation of cortical monoamine release and activity in models of potential antidepressant activity. Millan MJ, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):132–47

Effect of hemilabyrinthectomy on monoamine metabolism in the medial vestibular nucleus, locus coeruleus, and other brainstem nuclei of albino and pigmented rats. Cransac H, et al. **J Vestib Res** 1996 Jul–Aug;6(4):243–53

A possible involvement of monoaminergic and opioidergic systems in the analgesia induced by electro–acupuncture in rabbits. Takagi J, et al. **Jpn J Pharmacol** 1996 Jan; 70(1):73–80

Affinities of dopamine analogs for monoamine granular and plasma membrane transporters: implications for PET dopamine studies. Endres CJ, et al. **Life Sci** 1997; 60(26):2399–406

Excitatory amino acids and monoamines in parahippocampal gyrus and frontal cortical pole of adults with Down syndrome. Risser D, et al. **Life Sci** 1997;60(15):1231–7

Age–related changes in monoamines within the olfactory bulbs of the Fischer 344 male rat. Dluzen DE. **Mech Ageing Dev** 1996 Oct 4;91(1):37–45

Brain monoamines, exercise, and behavioral stress: animal models. Dishman RK. **Med Sci Sports Exerc** 1997 Jan; 29(1):63–74 (76 ref.)

Effects of valproate on amino acid and monoamine concentrations in striatum of audiogenic seizure–prone Balb/c mice. Vriend JP, et al. **Mol Chem Neuropathol** 1996 Apr;27(3):307–24

Catch me if you can: are catechol– and indoleamine genes pleiotropic QTLs for common mental disorders? [news] Collier DA, et al. **Mol Psychiatry** 1997 May;2(3):181–3

Tetrahydrobiopterin biosynthesis in the rat brain: heterogeneity of GTP cyclohydrolase I mRNA expression in monoamine–containing neurons [published erratum appears in Neurochem Int 1996 Oct;29(4):I–II] Lentz SI, et al. **Neurochem Int** 1996 May–Jun;28(5–6):569–82

Brain monoamine changes in rats after short periods of ozone exposure. González–Piña R, et al. **Neurochem Res** 1997 Jan; 22(1):63–6

Changes in extracellular levels of dopamine metabolites in somatosensory cortex after peripheral denervation. Jiménez–Capdeville ME, et al. **Neurochem Res** 1996 Jan; 21(1):1–6

Reserpine–induced immunocytochemical change of neuropeptide Y in the hypothalamic arcuate nucleus. Okamura H, et al. **Neurochem Res** 1996 Feb;21(2):239–43

Free radical scavenging activity of the Japanese herbal medicine toki–shakuyaku–san (TJ–23) and its effect on superoxide dismutase activity, lipid peroxides, glutamate, and monoamine metabolites in aged rat brain. Ueda Y, et al. **Neurochem Res** 1996 Aug;21(8):909–14

Effects of neuropeptide Y (NPY) and [D–Trp32]NPY on monoamine and metabolite levels in dialysates from rat hypothalamus during feeding behavior. Matos FF, et al. **Neuropeptides** 1996 Aug;30(4):391–8

Behavioral evidence for modulation by sigma ligands of (+)MK–801–induced hyperlocomotion in monoamine–depleted mice. Okuyama S, et al. **Neuropharmacology** 1996 Apr;35(4):467–74

Selegiline in ADHD adults: plasma monoamines and monoamine metabolites. Ernst M, et al. **Neuropsychopharmacology** 1997 Apr;16(4):276–84

On the release of glutamate and aspartate in the basal ganglia of the rat: interactions with monoamines and neuropeptides. Herrera–Marschitz M, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):489–95 (73 ref.)

Daily time course of the contents in monoamines and their metabolites in the pineal gland of Syrian hamster. Moujir F, et al. **Neurosci Lett** 1997 Feb 21;223(2):77–80

Pre/postnatal dopamine D1 receptor stimulation induces a differential reduction of serotonin levels in hippocampus and superior colliculus of puber rats. Sajnani GG, et al. **Neurosci Lett** 1997 Jul 18;230(2):121–4

Aroclor 1254–induced alterations in hypothalamic monoamine metabolism in the Atlantic croaker (Micropogonias undulatas): correlation with pituitary gonadotropin release. Khan IA, et al. **Neurotoxicology** 1997; 18(2):553–60

Characterization of [11C]tetrabenazine as an in vivo radioligand for the vesicular monoamine transporter. DaSilva JN, et al. **Nucl Med Biol** 1994 Feb;21(2):151–6

alpha–Melanocyte–stimulating hormone (alpha–MSH) and melanin–concentrating hormone (MCH) modify monoaminergic levels in the preoptic area of the rat. Gonzalez MI, et al. **Peptides** 1997;18(3):387–92

The effects of two chronic intermittent stressors on brain monoamines. Campmany L, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):517–23

Monoamine transporters and the neurobehavioral teratology of cocaine. Meyer JS, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):585–93 (108 ref.)

Effects of moclobemide on forced–swimming stress and brain monoamine levels in mice. Miura H, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):469–75

An affinity–modulating site on neuronal monoamine transport proteins. Plenge P, et al. **Pharmacol Toxicol** 1997 Apr; 80(4):197–201

The revised monoamine theory of depression: a modulatory role for monoamines, based on new findings from monoamine depletion experiments in humans. Heninger GR, et al. **Pharmacopsychiatry** 1996 Jan;29(1):2–11 (53 ref.)

Monoamines in the dorsomedial hypothalamus of rats following exposure to different tests of "anxiety". Sajdyk TJ, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Jan;21(1):193–209

Changes of behavior and monoamine metabolites in the rat brain after repeated methamphetamine administration: effects of duration of repeated administration. Suzuki H, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb;21(2):359–69

Effects of trepelennamine on brain monoamine turnover in morphine dependent and abstinent mice. San–Martin–Clark O, et al. **Psychopharmacology (Berl)** 1996 Feb; 123(3):297–302

[Effect of mexidol on the level of monoamine mediators and amino acids in rat brain structures] Miroshnichenko II, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):170–3 **(Rus)**

[The monoaminergic innervation of the mediastinal pleura in human fetuses] Motavkin PA, et al. **Morfologiia** 1997; 111(1):43–6 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Drug interactions with vesicular amine transport. Peter D, et al. **NIDA Res Monogr** 1996;161:176–200 (64 ref.)

Triadimefon and triadimenol: effects on monoamine uptake and release. Walker QD, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):227–33

PHARMACOLOGY

Induction of gram–negative bacterial growth by neurochemical containing banana (Musa x paradisiaca) extracts. Lyte M. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):245–50

Lipid peroxidation inhibited by monoamines. Miura T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):57–67

PHYSIOLOGY

Responses in the hypothalamic monoaminergic system activity in ewes to beta–endorphin, CRF and their antagonists. Przekop F, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):807–17 (58 ref.)

Monoamine neurotransmitter function and spontaneous recurrence of methamphetamine psychosis. Yui K, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:415–29

Monoamine–induced apoptotic neuronal cell death. Zilkha–Falb R, et al. **Cell Mol Neurobiol** 1997 Feb; 17(1):101–18

Selective depletion of spinal monoamines changes the rat soleus EMG from a tonic to a more phasic pattern. Kiehn O, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):173–84

Trigeminal afferents and brainstem centers involved in the occurrence of cerebral vasospasm. Svendgaard NA, et al. **Neurol Res** 1996 Oct;18(5):394–400

Distinct activation of monoaminergic pathways in chick brain in relation to auditory imprinting and stressful situations: a microdialysis study. Gruss M, et al. **Neuroscience** 1997 Feb;76(3):891–9

TOXICITY

Acute and subacute toxicity of tyramine, spermidine, spermine, putrescine and cadaverine in rats. Til HP, et al. **Food Chem Toxicol** 1997 Mar–Apr;35(3–4):337–48

BIOGENIC POLYAMINES

BIOSYNTHESIS

The inhibitory effect of vitamin E on pulmonary polyamine biosynthesis, cell proliferation and carcinogenesis in mice. Yano Y, et al. **Biochim Biophys Acta** 1997 Mar 27; 1356(1):35–42

Characterization of alpha–difluoromethylornithine resistant Leishmania donovani and its susceptibility to other inhibitors of the polyamine biosynthetic pathway. Mukhopadhyay R, et al. **Pharmacol Res** 1996 Jul–Aug; 34(1–2):43–6

METABOLISM

Fasting and postprandial polyamine concentrations in the human digestive lumen. Benamouzig R, et al. **Am J Clin Nutr** 1997 Mar;65(3):766–70

Effects of secretagogues on insulin biosynthesis and secretion in polyamine–depleted pancreatic beta–cells. Sjöholm A. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1105–10

Polyamine levels in various tissues of rats treated with 3–hydroxy–4–methoxycinnamic acid and 3,4–dimethoxycinnamic acid. Watanabe S, et al. **Anticancer Drugs** 1996 Nov;7(8):866–72

Tumour growth modifies intravascular polyamine transport by plasma lipoproteins in the mouse. Catros–Quemener V, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):30–7

Involvement of polyamines in selenomethionine induced apoptosis and mitotic alterations in human tumor cells. Redman C, et al. **Carcinogenesis** 1997 Jun;18(6):1195–202

JAR human placental choriocarcinoma cells actively synthesize, take up and release polyamines. Fontana L, et al. **Cell Biochem Funct** 1996 Sep;14(3):173–80

Polyamine levels in testes and seminal vesicles from adult golden hamsters during gonadal regression–recrudescence. Frungieri MB, et al. **J Androl** 1996 Nov–Dec;17(6):683–91

PHARMACOKINETICS

Polyamine transport systems of Leishmania donovani promastigotes. Kandpal M, et al. **Life Sci** 1997; 60(20):1793–801

PHARMACOLOGY

Control of ornithine decarboxylase activity by polyamines and absence of antizyme in Tetrahymena. Koguchi K, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):157–62

Motor depressant effects of systemically administered polyamines in mice: involvement of central NMDA receptors. Giménez–Llort L, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):231–8

PHYSIOLOGY

Synergistic activation of macrophage activity by polyamine deprivation and cyclophosphamide. Chamaillard L, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1059–65

Polyamine–dependent alterations in the structure of microfilaments, Golgi apparatus, endoplasmic reticulum, and proteoglycan synthesis in BHK cells. Parkkinen JJ, et al. **J Cell Biochem** 1997 Aug 1;66(2):165–74

BIOGRAPHY

see related
AUTOBIOGRAPHY

Bibliography of secondary sources on the history of dermatology. II. Obituaries and biographies in English, supplemented through 1995. Parish LC, et al. **Int J Dermatol** 1996 Jul;35(7):510–4

The living structured auto–obituary. Rennie D. **Lancet** 1996 Sep 28;348(9031):875–6

Check your biography on the new AMA database. All active, licensed physicians are included. **Mich Med** 1996 Oct; 95(10):13

BIOHAZARDS CONTAINMENT see **CONTAINMENT OF BIOHAZARDS**

BIOINFORMATICS see **COMPUTATIONAL BIOLOGY**

BIOINORGANIC CHEMISTRY see **CHEMISTRY, BIOINORGANIC**

BIOLISTICS

Introduction of DNA into rat liver with a hand–held gene gun: distribution of the expressed enzyme, [32P]DNA, and Ca2+ flux. Yoshida Y, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):695–700

Biolistic–mediated gene expression in guinea pigs and cattle tissue in vivo. Rech EL, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1265–7

Cytokine gene therapy of cancer using gene gun technology: superior antitumor activity of interleukin–12. Rakhmilevich AL, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1303–11

Plasmid–mediated gene transfer in neurons using the biolistics technique. Biewenga JE, et al. **J Neurosci Methods** 1997 Jan;71(1):67–75 (45 ref.)

Biolistic transformation of yeasts. Johnston SA, et al. **Methods Mol Biol** 1996;53:147–53 (12 ref.)

Gene transfer by biolistic process. Furth PA. **Mol Biotechnol** 1997 Apr;7(2):139–43 (36 ref.)

DNA–based immunization by in vivo transfection of dendritic cells. Condon C, et al. **Nat Med** 1996 Oct; 2(10):1122–8

Gene gun–mediated gene transfer and expression in rat islets. Guo Z, et al. **Transplant Proc** 1997 Jun;29(4):2209–10

METHODS

Transformation and foreign gene expression in plants by microprojectile bombardment. Daniell H. **Methods Mol Biol** 1997;62:463–89

BIOLOGICAL ASSAY

Measurement of inotropic effects by a newly developed guinea pig papillary muscle bioassay. Kubin A, et al. **Acta Med Austriaca** 1997;24(3):122–7

Detection of thiyl radical adducts formed during hydroxyl radical– and peroxynitrite–mediated oxidation of thiols—a high resolution ESR spin–trapping study at Q–band (35 GHz). Kalyanaraman B, et al. **Anal Biochem** 1996 Oct 1; 241(1):75–81

A sensitive and rapid fluorescence–based assay for determination of tetanus toxin peptidase activity. Soleilhac JM, et al. **Anal Biochem** 1996 Oct 1;241(1):120–7

An acid phosphatase assay for quantifying the growth of adherent and nonadherent cells. Yang TT, et al. **Anal Biochem** 1996 Oct 1;241(1):103–8

beta–Lactamase bioassay: a simplified method to determine extended–spectrum beta–lactamases (ESBL) in enterobacteria. Silva–Sánchez J, et al. **Arch Med Res** 1997 Summer;28(2):285–7

Biological assays: their role in the development and quality control of recombinant biological medicinal products. Mire–Sluis AR, et al. **Biologicals** 1996 Dec;24(4):351–62 (76 ref.)

Environmental immunoassays and other bioanalytical methods: overview and update. Sherry J. **Chemosphere** 1997 Mar–Apr;34(5–7):1011–25 (87 ref.)

Evaluation of growth hormone (GH) responses to pulsed GH–releasing hormone administration using the MTT–ESTA bioassay. Dattani MT, et al. **Eur J Endocrinol** 1996 Jul;135(1):87–95

Detection of peptidoglycan and beta–glucan with silkworm larvae plasma test. Tsuchiya M, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2–3):129–34

Comparison of enzyme immunoassay and mouse bioassay for determining paralytic shellfish poisoning toxins in shellfish. Usleber E, et al. **Food Addit Contam** 1997 Feb–Mar; 14(2):193–8

Rapid, sensitive and specific detection of whole cells and spores using the light–addressable potentiometric sensor. Dill K, et al. **J Biochem Biophys Methods** 1997 Mar 27; 34(2):161–6

In situ assay of acid sphingomyelinase and ceramidase based on LDL–mediated lysosomal targeting of ceramide–labeled sphingomyelin. Levade T, et al. **J Lipid Res** 1996 Dec; 37(12):2525–38

Measuring the potency of pulp mill effluents for induction of hepatic mixed–function oxygenase activity in fish. Hodson PV, et al. **J Toxicol Environ Health** 1996 Sep; 49(1):83–110

Bioassays of gonadotropins based on cloned receptors. Christin–Maitre S, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):151–9 (49 ref.)

In vitro virulence factors of Arcobacter butzleri strains isolated from superficial water samples. Musmanno RA, et al. **New Microbiol** 1997 Jan;20(1):63–8

Yeast hormone response element assays detect and characterize GRIP1 coactivator–dependent activation of transcription by thyroid and retinoid nuclear receptors. Walfish PG, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3697–702

Potency assay of diphtheria antitoxin in Vero cell microcultures. Sánchez Gómez R, et al. **Rev Latinoam Microbiol** 1996 Apr–Jun;38(2):97–110

Simplified procedure for thromboplastin calibration [letter; comment] Denson KW, et al. **Thromb Haemost** 1996 Sep; 76(3):478. Comment on: Thromb Haemost 1996 Feb;75(2):309–12.

A prothrombinase–based assay for detection of resistance to activated protein C. Nicolaes GA, et al. **Thromb Haemost** 1996 Sep;76(3):404–10

A bioluminescent adenosine nucleotide release assay for the diagnosis of heparin–induced thrombocytopenia [letter] Teitel JM, et al. **Thromb Haemost** 1996 Sep;76(3):479

Further investigations of lupus anticoagulant interference in a functional assay for tissue factor pathway inhibitor. Adams MJ, et al. **Thromb Res** 1997 Jul 15;87(2):245–9

Comparison of four commercial citrate blood collection systems for platelet function analysis by the PFA–100 system. Heilmann EJ, et al. **Thromb Res** 1997 Jul 1; 87(1):159–64

A new solid–phase assay system using magnetic force on blood group serology. Ohgama J, et al. **Transfus Med** 1996 Dec;6(4):351–9

INSTRUMENTATION

Microplate reader—a convenient tool in studies of blood coagulation. Walkowiak B, et al. **Thromb Res** 1997 Jul 1; 87(1):95–103

METHODS

Improved characteristics of aPC–resistance assay: Coatest aPC resistance by predilution of samples with factor V deficient plasma. Kapiotis S, et al. **Am J Clin Pathol** 1996 Nov;106(5):588–93

Modified APC–resistance test: variable ratios with respect to source of factor V–deficient plasma. Ts'ao C, et al. **Am J Hematol** 1997 Mar;54(3):214–8

Detection of single–base changes using a bioluminometric primer extension assay. Nyrén P, et al. **Anal Biochem** 1997 Jan 15;244(2):367–73

Quantification of transforming growth factor–beta in biological material using cells transfected with a plasminogen activator inhibitor–1 promoter–luciferase construct. van Waarde MA, et al. **Anal Biochem** 1997 Apr 5;247(1):45–51

Amphotericin B enzyme–linked immunoassay for clinical use: comparison with bioassay and HPLC. Cleary JD, et al. **Ann Pharmacother** 1997 Jan;31(1):39–44

Cell–density–dependent sensitivity of a mer–lux bioassay. Rasmussen LD, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3291–3

2–methylacyl racemase: a coupled assay based on the use of pristanoyl–CoA oxidase/peroxidase and reinvestigation of its subcellular distribution in rat and human liver. Van Veldhoven PP, et al. **Biochim Biophys Acta** 1997 Jul 12; 1347(1):62–8

Primitive human hematopoietic cells are enriched in cord blood compared with adult bone marrow or mobilized peripheral blood as measured by the quantitative in vivo SCID–repopulating cell assay. Wang JC, et al. **Blood** 1997 Jun 1;89(11):3919–24

Comparison of new rapid methods for D–dimer measurement to exclude deep vein thrombosis in symptomatic outpatients. Legnani C, et al. **Blood Coagul Fibrinolysis** 1997 Jul;8(5):296–302

The use of two different APC resistance assay systems provides optimal sensitivity and specificity for diagnosing genetic APC resistance. Solano C, et al. **Blood Coagul Fibrinolysis** 1997 Jul;8(5):268–73

An "in vitro" approach to water pollution monitoring. Gelardi A, et al. **Boll Soc Ital Biol Sper** 1996 May–Jun; 72(5–6):125–32

A rapid and efficient system for screening HIV–1 Pol mRNA–specific ribozymes. Ramezani A, et al. **Can J Microbiol** 1997 Jan;43(1):92–6

A functional assay in yeast for the human estrogen receptor displays wild–type and variant estrogen receptor messenger RNAs present in breast carcinoma. van Dijk MA, et al. **Cancer Res** 1997 Aug 15;57(16):3478–85

A rapid bioassay to detect mycotoxins using a melanin precursor overproducer mutant of the ciliate Tetrahymena thermophila. Martín González A, et al. **Cell Biol Int** 1997 Apr;21(4):213–6

Quantification of leucocyte elastase and cathepsin G in plasma by a simple method: effect of elastase in plasma levels of D–dimer and thrombomodulin. Nagamatsu Y, et al. **Clin Lab Haematol** 1996 Mar;18(1):29–34

Evaluation of two commercial microtiter cytotoxin assays for the detection of Clostridium difficile toxin B in stool specimens. Fedorko DP, et al. **Diagn Microbiol Infect Dis** 1996 Sep;26(1):47–51

Brine shrimp bioassay for biological activity of medicinal plants used in traditional medicines in Tanzania. Massele AY, et al. **East Afr Med J** 1995 Oct;72(10):661–3

Development and testing of an assay for soil ecosystem health using the bacterial–feeding nematode Cruznema tripartitum. Lau SS, et al. **Ecotoxicol Environ Saf** 1997 Mar; 36(2):133–9

Effect of copper and cadmium on three Malaysian tropical estuarine invertebrate larvae. Ramachandran S, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):183–8

Comparison of 17 methods of predicting the carcinogenicity of 30 chemicals [letter] Ashby J. **Environ Health Perspect** 1997 May;105(5):466–7

Evaluation of a recombinant yeast cell estrogen screening assay. Coldham NG, et al. **Environ Health Perspect** 1997 Jul;105(7):734–42

Assessing environmental chemicals for estrogenicity using a combination of in vitro and in vivo assays. Shelby MD, et al. **Environ Health Perspect** 1996 Dec;104(12):1296–300

Some correlations between light transmission changes and some commonly used in vitro assays for the assessment of platelet concentrates. Järemo P. **Eur J Haematol** 1997 Mar;58(3):181–5

The use of a new viability assay to determine the susceptibility of Cryptosporidium and Eimeria sporozoites to respiratory inhibitors and extremes of pH. Brown SM, et al. **FEMS Microbiol Lett** 1996 Sep 1;142(2–3):203–8

Chronic dermal studies of petroleum streams in mice. Broddle WD, et al. **Fundam Appl Toxicol** 1996 Mar;30(1):47–54

A rapid in vitro assay for evaluation of metabolism–dependent cytotoxicity of antiepileptic drugs on isolated human lymphocytes. Tabatabaei AR, et al. **Fundam Appl Toxicol** 1997 Jun;37(2):181–9

A simple procedure to determine the biological titer of recombinant retroviral vectors. Tavoloni N. **Gene Ther** 1997 Feb;4(2):150–5

Calibration of clot–based, coagulation factor assays using a first–order exponential equation and the method of nonlinear least squares. Retzinger GS. **Hematologia (Budap)** 1997;28(3):139–48

Alternatives to the 2–species bioassay for the identification of potential human carcinogens. Ashby J. **Hum Exp Toxicol** 1996 Mar;15(3):183–202 (67 ref.)

Urokinase and non–urokinase fibrinolytic activity in protease–inhibitor–deprived plasma, assayed by a fibrin micro–plate method. Fossum S, et al. **Immunopharmacology** 1996 May;32(1–3):119–21

A new, simple, nonradioactive, nontoxic in vitro assay to monitor corneal endothelial cell viability. Larson EM, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):1929–33

Evaluation of the usefulness of lymphocyte proliferation assays in the diagnosis of allergy to cow's milk. Hoffman KM, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):360–6

Biologic allergen assay for in vivo test allergens with an in vitro model of the murine type I reaction. Hoffmann A, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):227–32

Middle–sized molecule fractions isolated from uremic ultrafiltrate and normal urine inhibit ingestive behavior in the rat. Anderstam B, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2453–60

Evaluation of a novel PCR–based diagnostic assay for detection of Mycobacterium tuberculosis in sputum samples. Maher M, et al. **J Clin Microbiol** 1996 Sep; 34(9):2307–8

Microtiter virus isolation and enzyme immunoassays for detection of bovine viral diarrhea virus in cattle serum. Saliki JT, et al. **J Clin Microbiol** 1997 Apr;35(4):803–7

A sensitive, type–specific, fluorogenic probe assay for detection of human papillomavirus DNA. Swan DC, et al. **J Clin Microbiol** 1997 Apr;35(4):886–91

Susceptibility of stable flies (Diptera:Muscidae) from southeastern Nebraska beef cattle feedlots to selected insecticides and comparison of 3 bioassay techniques. Marçon PC, et al. **J Econ Entomol** 1997 Apr;90(2):293–8

Initiating the risk assessment process for inhaled particulate materials: development of short term inhalation bioassays. Warheit DB, et al. **J Expo Anal Environ Epidemiol** 1997 Jul–Sep;7(3):313–25

A highly precise reporter gene bioassay for type I interferon. Canosi U, et al. **J Immunol Methods** 1996 Nov 29; 199(1):69–76

Volumes ingested by four species of noctuids with reference to peroral droplet bioassay of baculoviruses. Kunimi Y, et al. **J Invertebr Pathol** 1996 Nov;68(3):310–1

Assays for osteocalcin: all are not equal [editorial; comment] Bell NH. **J Lab Clin Med** 1997 Apr;129(4):396–7. Comment on: J Lab Clin Med 1997 Apr;129(4):422–9.

Standardized methods to bioassay neurotrophic factors for dopaminergic neurons. Takeshima T, et al. **J Neurosci Methods** 1996 Jul;67(1):27–41

Functional characterization of the human neurokinin receptors NK1, NK2, and NK3 based on a cellular assay system. Stratowa C, et al. **J Recept Signal Transduct Res** 1995 Jan–Mar; 15(1–4):617–30

Detection of lactate dehydrogenase–elevating virus in transplantable mouse tumors by biological assay and RT–PCR assays and its removal from the tumor cell. Chen Z, et al. **J Virol Methods** 1997 May;65(2):227–36

Evaluation of variable parameters in neutrophil function test using chemiluminescence assay. Noah RM, et al. **Malays J Pathol** 1994 Dec;16(2):157–60

Lipoate addition to acyltransferases of alpha–keto acid dehydrogenase complexes and H–protein of glycine cleavage system. Fujiwara K, et al. **Methods Enzymol** 1997; 279:184–93 (23 ref.)

Determination of biotinidase activity with biotinyl–6–aminoquinoline as substrate. Hayakawa K, et al. **Methods Enzymol** 1997;279:435–42 (24 ref.)

Microbiological assay of folates in 96–well microtiter plates. Horne DW. **Methods Enzymol** 1997;281:38–43

Competitive enzymatic assay of biotin. Huang EZ, et al. **Methods Enzymol** 1997;279:304–8 (8 ref.)

Competitive agglutination assay of biotin. Huang EZ. **Methods Enzymol** 1997;279:308–20 (19 ref.)

Preparation of bifluorescent–labeled glycopeptides for glycoamidase assay. Lee KB, et al. **Methods Enzymol** 1997; 278:512–9

Microtiter plate assay for biopterin using cryopreserved Crithidia fasciculata. Leeming RJ. **Methods Enzymol** 1997; 281:61–70

Determination of serum biotinidase activity with radioiodinated biotinylamide analogs. Livaniou E, et al. **Methods Enzymol** 1997;279:442–51 (13 ref.)

Bioluminescence competitive binding assays for biotin based on photoprotein aequorin. Lizano S, et al. **Methods Enzymol** 1997;279:296–303 (9 ref.)

Preparation of fluorescence–labeled neoglycolipids for ceramide glycanase assays. Matsuoka K, et al. **Methods Enzymol** 1997;278:519–28 (20 ref.)

Determinations of biotin in biological fluids. Mock DM. **Methods Enzymol** 1997;279:265–75 (6 ref.)

Microbiological assay for serum, plasma, and red cell folate using cryopreserved, microtiter plate method. Molloy AM, et al. **Methods Enzymol** 1997;281:43–53

Purification and properties of bovine and human holocarboxylase synthetases. Suzuki Y, et al. **Methods Enzymol** 1997;279:386–93 (12 ref.)

Bioassay for determining endogenous levels of cyclic ADP–ribose. Walseth TF, et al. **Methods Enzymol** 1997; 280:287–94

Cyanogen bromide–based assay of thiamin. Wyatt DT, et al. **Methods Enzymol** 1997;279:91–7 (6 ref.)

Analysis of the action of idazoxan calls into question the reliability of the rat isolated small mesenteric artery assay as a predictor for alpha 1–adrenoceptor–mediated pressor activity. Van der Graaf PH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep; 354(3):389–92

A competitive enzyme hybridization assay for plasma determination of phosphodiester and phosphorothioate antisense oligonucleotides. Deverre JR, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3584–9

BIOLOGICAL ASSAY

Micro-methods for serial determinations of elastin metabolism parameters in blood plasma and serum. Bizbiz L, et al. **Pathol Biol (Paris)** 1996 Oct;44(8):694-700

Sensitive immunoassay and in vitro bioassay demonstrate constant bioactive/immunoreactive ratio of luteinizing hormone in healthy boys during the pubertal maturation. Huhtaniemi IT, et al. **Pediatr Res** 1996 Jan;39(1):180-4

Refinement and validation of an alternative bioassay for potency testing of therapeutic botulinum type A toxin. Sesardic D, et al. **Pharmacol Toxicol** 1996 May;78(5):283-8

Prolactin-like biological activity in the pituitary glands of the marsupial Monodelphis domestica and of the amphibian Rana pipiens detected by a colorimetric Nb2 lymphoma cell proliferation assay. Kacsóh B. **Proc Soc Exp Biol Med** 1997 Feb;214(2):146-55

Specificity of an assay based on a factor V-depleted plasma in patients carrying the Arg 506 Gln mutation [letter] Alhenc-Gelas M, et al. **Thromb Haemost** 1996 Jun; 75(6):976-7

Pharmacokinetic in vivo comparison using 1-stage and chromogenic substrate assays with two formulations of Hemofil-M. Lee C, et al. **Thromb Haemost** 1996 Dec; 76(6):950-6

Factors that may influence the mouse embryo bioassay. Zarmakoupis-Zavos PN, et al. **Tohoku J Exp Med** 1996 Jul;179(3):141-9 (31 ref.)

Carcinogenicity study of outdoor airborne particulate matter in newborn male NMRI mice. Heussen GA, et al. **Toxicol Lett** 1996 Nov;88(1-3):23-8

Bioassay for determining 2,3,7,8-tetrachlorodibenzo-p-dioxin equivalents (TEs) in human hepatoma Hepg2 cells. Wiebel FJ, et al. **Toxicol Lett** 1996 Nov;88(1-3):335-8

A highly sensitive and non-lethal beta-galactosidase plate assay for yeast. Duttweiler HM. **Trends Genet** 1996 Sep; 12(9):340-1

[Measurement of biological activity of hLH. Multicenter study] Revol A, et al. **Ann Biol Clin (Paris)** 1997 Mar-Apr; 55(2):123-8 (Eng. Abstr.) **(Fre)**

[The bioindication of mutagens in the soil of rural districts] Nechkina MA, et al. **Gig Sanit** 1997 Mar-Apr;(2):11-2 (Eng. Abstr.) **(Rus)**

[The importance of using biological test objects in studying the toxicity of surface-active substances] Mudryi IV, et al. **Lik Sprava** 1996 Mar-Apr;(3-4):150-2 (Eng. Abstr.) **(Rus)**

[Determination of serum aminoglycoside and vancomycin concentrations by the microbiological method in the presence of other antimicrobials] Corso A, et al. **Rev Argent Microbiol** 1996 Jul-Sep;28(3):123-31 (Eng. Abstr.) **(Spa)**

STANDARDS

Quality control in IVF with mouse bioassays: a four years' experience. van den Bergh M, et al. **J Assist Reprod Genet** 1996 Oct;13(9):733-8

STATISTICS & NUMERICAL DATA

On the statistical analysis of bioassays. Wong MY. **Comput Methods Programs Biomed** 1996 May;49(3):191-7

TRENDS

Identifying carcinogens--a strategy for use of abbreviated models. Tennant R. **Toxicol Pathol** 1997 Mar-Apr; 25(2):240-1

VETERINARY

An homologous in vitro assay to detect lymphokines released by PHA-activated duck peripheral blood lymphocytes and spleen cells. Bertram EM, et al. **Vet Immunol Immunopathol** 1997 May;56(1-2):163-74

BIOLOGICAL AVAILABILITY

Gastrointestinal physiology-regulated dogs for bioavailability evaluation of an oral controlled-release dosage form composed of pulsatile release granules. Sagara K, et al. **Biol Pharm Bull** 1996 Sep;19(9):1184-8

Prediction of absolute bioavailability for drugs using oral and renal clearance following a single oral dose: a critical view. Mahmood I. **Biopharm Drug Dispos** 1997 Aug;18(6):465-73

An in vitro method for predicting in vivo oral bioavailability of novel immunosuppressive drugs. Dias VC, et al. **Clin Biochem** 1996 Feb;29(1):43-9

Interpatient variability in bioavailability is related to the extent of absorption: implications for bioavailability and bioequivalence studies. Hellriegel ET, et al. **Clin Pharmacol Ther** 1996 Dec;60(6):601-7

Bioavailability of orally administered sex steroids used in oral contraception and hormone replacement therapy. Fotherby K. **Contraception** 1996 Aug;54(2):59-69 (52 ref.)

Drug-membrane interactions studied by molecular dynamics simulation: size dependence of diffusion. Bassolino D, et al. **Drug Des Discov** 1996 Apr;13(3-4):135-41

The assessment of bioavailability of micronutrients: introduction. Jackson MJ. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S1-2

Bioavailability of arsenic in soil and house dust impacted by smelter activities following oral administration in cynomolgus monkeys. Freeman GB, et al. **Fundam Appl Toxicol** 1995 Dec;28(2):215-22

Towards a practical strategy for assessing individual bioequivalence. Food and Drug Administration Individual Bioequivalence Working Group. Schall R, et al. **J Pharmacokinet Biopharm** 1996 Feb;24(1):133-49

Bioavailability, antinociceptive and antiinflammatory properties of BP 2-94, a histamine H3 receptor agonist prodrug. Rouleau A, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1085-94

Solid-phase extraction and HPLC determination of levamisole hydrochloride in sheep plasma. Du Preez JL, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):209-11

[Asymptotic behavior of calculated concentration time curves] Schröder T, et al. **Biomed Tech (Berl)** 1997 Jan-Feb;42(1-2):7-11 (Eng. Abstr.) **(Ger)**

BIOLOGICAL AVAILABILITY, NUTRITIONAL see **NUTRITIVE VALUE**

BIOLOGICAL CLOCKS

see related

CIRCADIAN RHYTHM

Simulations of light effects on the human circadian pacemaker: implications for assessment of intrinsic period. Klerman EB, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R271-82

Manipulation of potential perinatal zeitgebers for the juvenile circadian temperature rhythm in rats. Nuesslein-Hildesheim B, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):R1388-95

Low-frequency ultradian insulin rhythms are coupled to cardiovascular, autonomic, and neuroendocrine rhythms. Shannahoff-Khalsa DS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R962-8

The rhythms of blood pressure in humans. Exogenous and endogenous components and implications for diagnosis and treatment. Portaluppi F, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:1-9 (92 ref.)

Oscillations of cytosolic free calcium in bombesin-stimulated HIT-T15 cells. Li G, et al. **Cell Calcium** 1996 Jun; 19(6):535-46

Bilirubin, REM sleep, and phototransduction of environmental time cues. A hypothesis. Oren DA. **Chronobiol Int** 1997 May;14(3):319-29 (75 ref.)

Evidence for the existence of at least two timing mechanisms that contribute to oligodendrocyte generation in vitro. Ibarrola N, et al. **Dev Biol** 1996 Nov 25;180(1):1-21

A new gene encoding a putative transcription factor regulated by the Drosophila circadian clock. Rouyer F, et al. **EMBO J** 1997 Jul 1;16(13):3944-54

The entrainment of persistent tidal rhythmicity in a filter-feeding bivalve using cycles of food availability. Williams BG, et al. **J Biol Rhythms** 1997 Apr;12(2):173-81

An ultradian clock controls locomotor behaviour and cell division in isolated cells of Paramecium tetraurelia. Kippert F. **J Cell Sci** 1996 Apr;109 (Pt 4):867-73

The photoperiodic clock is blackheaded buntings (Emberiza melanocephala) is mediated by a self-sustaining circadian system. Kumar V, et al. **J Comp Physiol [A]** 1996; 179(1):59-64

Time perception in a neglected space. Basso G, et al. **Neuroreport** 1996 Sep 2;7(13):2111-4

Transcription of CABII is regulated by the biological clock in Chlamydomonas reinhardtii. Jacobshagen S, et al. **Plant Mol Biol** 1996 Sep;31(6):1173-84

PER protein in silkmoths marches to different drummer [news] Barinaga M. **Science** 1996 Nov 22;274(5291):1306

PAS, present, and future: clues to the origins of circadian clocks [comment] Kay SA. **Science** 1997 May 2; 276(5313):753-4. Comment on: Science 1997 May 2;276(5313):763-9.

DRUG EFFECTS

Mediation by nitric oxide of the indirect effects of adenosine on calcium current in rabbit heart pacemaker cells. Shimoni Y, et al. **Br J Pharmacol** 1996 Dec;119(7):1463-9

Heart rate and heart rate variability, a pharmacological target. Swynghedauw B, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):677-85 (47 ref.)

Characterization of TTX-resistant persistent Na+ current underlying pacemaker potentials of fish gonadotropin-releasing hormone (GnRH) neurons. Oka Y. **J Neurophysiol** 1996 Jun;75(6):2397-404

Pigment-dispersing hormone shifts the phase of the circadian pacemaker of the cockroach Leucophaea maderae. Petri B, et al. **J Neurosci** 1997 Jun 1;17(11):4087-93

Synchronous oscillations in cerebrocortical capillary red blood cell velocity after nitric oxide synthase inhibition. Biswal BB, et al. **Microvasc Res** 1996 Jul;52(1):1-12

Adrenergic responses in silent and putative inhibitory pacemaker-like neurons of the rat rostral ventrolateral medulla in vitro. Hayar A, et al. **Neuroscience** 1997 Mar; 77(1):199-217

GENETICS

Molecular tumour clocks [editorial] Shibata D. **Ann Med** 1997 Feb;29(1):5-7 (20 ref.)

Rhythmic transcription and autoregulatory loops: nuclear pacemaker CREM. Lamas M, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:285-94 (58 ref.)

Extent and character of circadian gene expression in Drosophila melanogaster: identification of twenty oscillating mRNAs in the fly head. Van Gelder RN, et al. **Curr Biol** 1995 Dec 1;5(12):1424-36

Identification of vertebrate circadian clock-regulated genes by differential display. Green CB, et al. **Methods Mol Biol** 1997;85:219-30

Drosophila melanogaster deficient in protein kinase A manifests behavior-specific arrhythmia but normal clock function. Majercak J, et al. **Mol Cell Biol** 1997 Oct; 17(10):5915-22

Molecular clocks. PERpetuating the PASt [news; comment] Sassone-Corsi P. **Nature** 1997 Oct 2;389(6650):443-4. Comment on: Nature 1997 Oct 2;389(6650):512-6.

Are cycling gene products as internal zeitgebers no longer the zeitgeist of chronobiology? Hall JC. **Neuron** 1996 Nov; 17(5):799-802 (26 ref.)

Regulation of nuclear entry of the Drosophila clock proteins period and timeless. Saez L, et al. **Neuron** 1996 Nov; 17(5):911-20

The biological clock: it's all in the genes. Takahashi JS. **Prog Brain Res** 1996;111:5-9

Gene for mammals' body clocks found [news] Balter M. **Science** 1997 Sep 19;277(5333):1762

New clues found to circadian clocks--including mammals' [news; comment] Barinaga M. **Science** 1997 May 16; 276(5315):1030-1. Comment on: Science 1997 May 16;276(5315):1093.

As time PASses: the first mammalian clock gene [see comments] Kay SA. **Science** 1997 May 16;276(5315):1093 . Comment in: Science 1997 May 16;276(5315):1030-1.

IMMUNOLOGY

Components of biological variation in serum soluble transferrin receptor: relationships to serum iron, transferrin and ferritin concentrations, and immune and haematological variables. Maes M, et al. **Scand J Clin Lab Invest** 1997 Feb;57(1):31-41

PHYSIOLOGY

The central oxytocin pulse generator: a pacemaker for the ovarian cycle. McCracken JA, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):819-32

Regional differences in the role of the Ca2+ and Na+ currents in pacemaker activity in the sinoatrial node. Kodama I, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2793-806

A smooth muscle nodule producing 10-12 cycle/min regular contractions at the mesenteric border of the pacemaker area in the guinea-pig colon. Kobayashi S, et al. **Arch Histol Cytol** 1996 May;59(2):159-68

On the behavior of mRIC--a simple model of living pacemakers driven by periodic pulse trains. Sato S, et al. **Biosystems** 1997;40(1-2):169-76

Complex responses of living neurons to pacemaker inhibition: a comparison of dynamical models. Stiber M, et al. **Biosystems** 1997;40(1-2):177-88

Discrimination of circadian phase in intact and suprachiasmatic nuclei-ablated rats. Mistlberger RE, et al. **Brain Res** 1996 Nov 11;739(1-2):12-8

Tectal input to the central posterior/prepacemaker nucleus of weakly electric fish, Apteronotus leptorhynchus: an in vitro tract-tracing study. Zupanc GK, et al. **Brain Res** 1996 Nov 11;739(1-2):201-9

The postembryonic development of somatostatin immunoreactivity in the central posterior/prepacemaker nucleus of weakly electric fish, Apteronotus leptorhynchus: a double-labelling study. Stroh T, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):76-87

Recent progress in understanding the temporal behavior of unicellular organisms. Balzer I. **Braz J Med Biol Res** 1996 Jan;29(1):95-9

Let there be light: signal transduction in a mammalian circadian system. Golombek DA, et al. **Braz J Med Biol Res** 1996 Jan;29(1):131-40 (77 ref.)

Several clocks may simplify the circadian system of Gonyaulax. Morse D, et al. **Braz J Med Biol Res** 1996 Jan;29(1):101-3

Periodic activity of the cortical cytoskeleton of the lymphoblast: modelling by a reaction-diffusion system. Guyader HL, et al. **C R Acad Sci III** 1997 Jan;320(1):59-65

Crosstalk between cellular morphology and calcium oscillation patterns. Insights from a stochastic computer model. Kraus M, et al. **Cell Calcium** 1996 Jun;19(6):461-72

Molecular anatomy of a light-sensitive circadian pacemaker in Drosophila. Young MW, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:279-84 (25 ref.)

The 'internal clocks' of circadian and interval timing [corrected and republished article originally printed in Endeavour 1997;21(1):3-8] Hinton SC, et al. **Endeavour** 1997;21(2):82-7 (42 ref.)

Repetitive firing and oscillatory activity of pyramidal-like bursting neurons in the rat subiculum. Mattia D, et al. **Exp Brain Res** 1997 May;114(3):507-17

Application of the coupled harmonic oscillators model to the description of beta-cells of the pancreatic langerhans islets. Sikorska-Piwowska Z, et al. **Folia Morphol (Warsz)** 1996;55(4):440-1

Natural and photoperiodically induced changes in plasma prolactin levels in male great tits. Silverin B, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):145-54

Theoretical considerations on the nature of the pineal 'ageing clock'. Pierpaoli W, et al. **Gerontology** 1997;43(1–2):20–5 (15 ref.)
Biorhythms may be linked to premenstrual problems [news] **Int J Fertil Menopausal Stud** 1996 Sep–Oct;41(5):444
Neuronal oscillations and stochastic limit cycles. Kurrer C, et al. **Int J Neural Syst** 1996 Sep;7(4):399–402
Afferent and efferent connections of the diencephalic prepacemaker nucleus in the weakly electric fish, Eigenmannia virescens: interactions between the electromotor system and the neuroendocrine axis. Wong CJ. **J Comp Neurol** 1997 Jun 23;383(1):18–41
Localization and characterization of nitric oxide synthase in the rat suprachiasmatic nucleus: evidence for a nitrergic plexus in the biological clock. Chen D, et al. **J Neurochem** 1997 Feb;68(2):855–61
Muscarinic modulation of the oscillatory and repetitive firing properties of entorhinal cortex layer II neurons. Klink R, et al. **J Neurophysiol** 1997 Apr;77(4):1813–28
Inter- and intra-hemispheric spatiotemporal organization of spontaneous electrocortical oscillations. MacDonald KD, et al. **J Neurophysiol** 1996 Jul;76(1):423–37
Modeling neural mechanisms for genesis of respiratory rhythm and pattern. I. Models of respiratory neurons. Rybak IA, et al. **J Neurophysiol** 1997 Apr;77(4):1994–2006
Modeling neural mechanisms for genesis of respiratory rhythm and pattern. II. Network models of the central respiratory pattern generator. Rybak IA, et al. **J Neurophysiol** 1997 Apr;77(4):2007–26
Differential activation of glutamate receptor subtypes on a single class of cells enables a neural oscillator to produce distinct behaviors. Spiro JE. **J Neurophysiol** 1997 Aug; 78(2):835–47
Oscillatory and burst discharge across electrosensory topographic maps. Turner RW, et al. **J Neurophysiol** 1996 Oct;76(4):2364–82
Spatial and temporal expression of the period and timeless genes in the developing nervous system of Drosophila: newly identified pacemaker candidates and novel features of clock gene product cycling. Kaneko M, et al. **J Neurosci** 1997 Sep 1;17(17):6745–60
Differential control of the hyperpolarization-activated current (i(f)) by cAMP gating and phosphatase inhibition in rabbit sino-atrial node myocytes. Accili EA, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):643–51
Pacemaker activity in a sensory ending with multiple encoding sites: the cat muscle spindle primary ending. Banks RW, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):177–99
Growth hormone-releasing hormone triggers pacemaker activity and persistent Ca2+ oscillations in rat somatotrophs. Kwiecien R, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):613–23
Endothelium-dependent modulation of pacemaking in lymphatic vessels of the guinea-pig mesentery. von der Weid PY, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):563–75
Do cortical and thalamic bioelectric oscillations have a functional role? A brief survey and discussion. Buser P, et al. **J Physiol Paris** 1995;89(4–6):249–54 (42 ref.)
Modulation and dynamic specification of motor rythm-generating circuits in crustacea. Simmers J, et al. **J Physiol Paris** 1995;89(4–6):195–208 (40 ref.)
Researchers dissect the tick and tock of the human body's master clock [news] Lamberg L. **JAMA** 1997 Oct 1; 278(13):1049–51
Control of circadian rhythms by a two-component clock. Sehgal A, et al. **Mol Cell Neurosci** 1996 Mar;7(3):165–72 (65 ref.)
Regulation of the septal pacemaker theta rhythm by the cervical nuclei of the midbrain. Kichigina VF, et al. **Neurosci Behav Physiol** 1996 Nov–Dec;26(6):516–25
Efficient gene expression in mammalian clock pacemaker cell in vitro by an adenovirus vector. Yamazaki N, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):193–6
Expression of somatostatin in neurons of the central posterior/prepacemaker nucleus projecting to the preglomerular nucleus: immunohistochemical evidence for a non-synaptic function. Zupanc GK, et al. **Neurosci Lett** 1997 Mar 14;224(2):123–6
Developmental change in the voltage-dependence of the pacemaker current, if, in rat ventricle cells. Robinson RB, et al. **Pflugers Arch** 1997 Feb;433(4):533–5
Chick pineal clock regulates serotonin N-acetyltransferase mRNA rhythm in culture. Bernard M, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):304–9
Control of time-dependent biological processes by temporally patterned input. Brezina V, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10444–9
An endogenous calcium oscillator may control early embryonic division. Swanson CA, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1194–9
Light entrainment of the mammalian biological clock. Meijer JH, et al. **Prog Brain Res** 1996;111:175–90 (82 ref.)
Disrupted melatonin-secretion during alcohol withdrawal. Schmitz MM, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Aug; 20(6):983–95
Consciousness and the neurobiology of perceptual binding. Hardcastle VG. **Semin Neurol** 1997 Jun;17(2):163–70 (132 ref.)
[Calcium oscillations and waves in a cell] Makowska A, et al. **Postepy Biochem** 1996;42(2):146–53 (54 ref.) **(Pol)**
[Role of the processes of disinhibition of pacemakers in reflex activity of neural centers] Gurin VN, et al. **Fiziol Cheloveka** 1997 Mar–Apr;23(2):147–9 **(Rus)**
[On the problem of regulating the biological rhythms of the body] Komarov FI, et al. **Klin Med (Mosk)** 1996;74(8):4–6 **(Rus)**

RADIATION EFFECTS

Millimeter waves thermally alter the firing rate of the Lymnaea pacemaker neuron. Alekseev SI, et al. **Bioelectromagnetics** 1997;18(2):89–98
Newborn primate infants are entrained by low intensity lighting. Rivkees SA, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):292–7

BIOLOGICAL DRESSINGS

An evaluation of excision with application of autografts or porcine xenografts within 24 hours of burn injury. Still JM, et al. **Ann Plast Surg** 1996 Feb;36(2):176–9
Application of sweet potato fiber to skin wound in rat. Suzuki T, et al. **Biol Pharm Bull** 1996 Jul;19(7):977–83
In vitro reconstructed skin models for wound coverage in deep burns. Berthod F, et al. **Br J Dermatol** 1997 Jun; 136(6):809–16 (71 ref.)
Treatment of burns and donor sites with human allogeneic keratinocytes grown on acellular pig dermis. Matoušková E, et al. **Br J Dermatol** 1997 Jun;136(6):901–7
Management of partial-thickness burn wounds by amniotic membrane: a cost-effective treatment in developing countries. Ramakrishnan KM, et al. **Burns** 1997 Mar;23 Suppl 1:S33–6
An experimental study on the effect of collagen shields and therapeutic contact lenses on corneal wound healing. Simşek NA, et al. **Cornea** 1996 Nov;15(6):612–6
Impregnation of collagen corneal shields with liposomes: uptake and release of hydrophilic and lipophilic marker substances. Grammer JB, et al. **Curr Eye Res** 1996 Aug; 15(8):815–23
Reconstructed human skin: transplant, graft or biological dressing? Wood EJ, et al. **Essays Biochem** 1995;29:65–85 (52 ref.)
In vitro biocompatibility test for collagen-based dressings [letter] Balasubramani M, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):223–7
Dermagraft-TC for partial-thickness burns: a clinical evaluation. Hansbrough J. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S25–8
Wound coverage: is there a difference? Hastings B, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):416–20
Perspectives in the use of allograft. Herndon DN. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S6
Growth peptide release from biologic dressings: a comparison. Rennekampff HO, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):522–7
A histological study of Dermagraft-TC in patients' burn wounds. Spielvogel RL. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S16–8
Method of obtaining and preparation of fresh human amniotic membrane for clinical use. Ganatra MA, et al. **JPMA J Pak Med Assoc** 1996 Jun;46(6):126–8
Human dura mater as a wrapping material for hydroxyapatite implantation in the anophthalmic socket. Lee SY, et al. **Ophthalmic Surg Lasers** 1997 May;28(5):428–31
[Conservative treatment of complete distal pancreatic fistula] Pugaev AV, et al. **Khirurgiia (Mosk)** 1997;(5):35–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Allergic reactions to oral, surgical and topical bovine collagen. Anaphylactic risk for surgeons. Mullins RJ, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):257–60
Cytotoxicity of wound dressing materials assessed using cultured skin equivalents [letter; comment] Achterberg V. **Burns** 1996 Aug;22(5):424. Comment on: Burns 1995 Jun;21(4):249–54.

ECONOMICS

Estimating the economic cost offsets of using Dermagraft-TC as an alternative to cadaver allograft in the treatment of graftable burns. Parente ST. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S18–24

STANDARDS

Operational standards and regulations for tissue banks. Heck E. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S11–2

UTILIZATION

Multiple piece use of Dermagraft-TC. Herndon DN. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S14–5
The evolutionary development of biologic dressings and skin substitutes. Pruitt BA Jr. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S2–5

BIOLOGICAL ENERGY SOURCES see **BIOELECTRIC ENERGY SOURCES**

BIOLOGICAL FACTORS

The Art of Anaerobes Conference. Athens, Georgia, USA, August 15–16, 1996. Abstracts. **Biofactors** 1997;6(1):53–81
International Society of Vitamins and Related Biofactors. A new sponsor for BioFactors. Ernster L. **Biofactors** 1995–96; 5(3):123–4
Chemoattraction and penetration of Echinostoma trivolvis and E. caproni cercariae in the presence of Biomphalaria glabrata, Helisoma trivolvis, and Lymnaea elodes dialysate. Fried B, et al. **Parasitol Res** 1997;83(2):193–7

ADMINISTRATION & DOSAGE

Delayed increase in blood pressure induced by spontaneously hypertensive rat plasma after high sodium intake. Tikkanen I, et al. **Blood Press** 1997 May;6(3):188–91

ANALYSIS

Development and validation of an assay for measuring preimplantation factor (PIF) of embryonal origin. Roussev RG, et al. **Am J Reprod Immunol** 1996 Mar;35(3):281–7
Assessment of cancellous bone structure: comparison of strut analysis, trabecular bone pattern factor, and marrow space star volume. Croucher PI, et al. **J Bone Miner Res** 1996 Jul;11(7):955–61

ANTAGONISTS & INHIBITORS

Effects of cytochrome P450 inhibitors on EDHF-mediated relaxation in the rat hepatic artery. Zygmunt PM, et al. **Br J Pharmacol** 1996 Jul;118(5):1147–52
Chronic lead exposure may inhibit endothelium-dependent hyperpolarizing factor in rats. Oishi H, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):558–63

BIOSYNTHESIS

Production of the monocyte locomotion inhibitory factor (MLIF) by axenically grown Entamoeba histolytica: synthesis or degradation? Rico G, et al. **Arch Med Res** 1997;28 Spec No:235–6
IgG2b inducing factor from rheumatoid arthritis synovial fluid synergizes with transforming growth factor-beta in promoting IgG2b antibody production in mouse B lymphocytes. Lettesjö H, et al. **Scand J Immunol** 1997 Jan; 45(1):50–4
Evidence for an unknown component of pancreatic ascites that induces adult respiratory distress syndrome through an interleukin-1 and tumor necrosis factor-dependent mechanism. Denham W, et al. **Surgery** 1997 Aug; 122(2):295–301; discussion 301–2

BLOOD

Parathyroid hypertensive factor predicts efficacy in the treatment of essential hypertension with verapamil. Lewanczuk RZ, et al. **Blood Press** 1996 Mar;5(2):98–104
Leucocyte and platelet-derived bioactive substances in stored blood: effect of prestorage leucocyte filtration. Nielsen HJ, et al. **Eur J Haematol** 1997 Apr;58(4):273–8
Recovery of macromolecular activators of phagocytosis from platelets (MAPP) producing and releasing function in stored human platelets. Sakamoto H, et al. **Int J Hematol** 1996 Feb;63(2):143–8
Embryonic origin of preimplantation factor (PIF): biological activity and partial characterization. Roussev RG, et al. **Mol Hum Reprod** 1996 Nov;2(11):883–7
Colchicine-induced elevation of tissue metallothionein contents is mediated by inflammation-independent serum factor. Itoh N, et al. **Toxicology** 1997 Jan 15;116(1–3):201–9
Bovine erythrocyte haemolysates enhance plasminogen activation by tissue-type plasminogen activator. Yamada M, et al. **Vet Res Commun** 1997 Feb;21(2):75–84

CEREBROSPINAL FLUID

Purification of a factor from CSF in patient after SAH which induces the cytosolic free calcium elevation in vascular smooth muscle cells. Nakashima T, et al. **Neurol Res** 1997 Feb;19(1):51–6

CHEMISTRY

Biological implications of magnesium salts at the molecular level. Theophanides T. **Magnes Res** 1996 Dec;9(4):259–62

DEFICIENCY

Is a (n inborn) deficiency of prostacyclin synthesis stimulating plasma factor associated with increased lipoprotein(a)? Kritz H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Nov; 55(5):363–72
A case of myocardial infarction complicating pregnancy—a role for prostacyclin synthesis stimulating plasma factor and lipoprotein (a)? Ulm MR, et al. **Thromb Res** 1996 Aug 1;83(3):237–42

GENETICS

Isolation and characterization of the human chromosomal gene for prostacyclin-stimulating factor. Mizushima S, et al. **J Biochem (Tokyo)** 1996 Nov;120(5):929–33

BIOLOGICAL FACTORS

ISOLATION & PURIFICATION

Constitutively migrating malignant rat liver epithelial cells produce a migration-stimulating activity for epithelial cells (eMSA). Eckstein BK, et al. **Cell Biol Int** 1996 Jul; 20(7):481–7

A factor secreted by human embryo stimulates cytokine release by uterine mast cell. Cocchiara R, et al. **Mol Hum Reprod** 1996 Oct;2(10):781–91

METABOLISM

Endothelium-derived hyperpolarizing factor: characterization as a cytochrome P450 1A-linked metabolite of arachidonic acid in perfused rat mesenteric prearteriolar bed. Adeagbo AS. **Am J Hypertens** 1997 Jul; 10(7 Pt 1):763–71

An endogenous cannabinoid as an endothelium-derived vasorelaxant. Randall MD, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):114–20

Identification of host factors that regulate the influenza virus RNA polymerase activity. Momose F, et al. **Biochimie** 1996;78(11–12):1103–8

Apoptosis-induced concomitant release of cytosolic proteins and factors which prevent cell death. Endrich MM, et al. **Biol Cell** 1996;88(1–2):15–22

NO/PGI2-independent vasorelaxation and the cytochrome P450 pathway in rabbit carotid artery. Dong H, et al. **Br J Pharmacol** 1997 Feb;120(4):695–701

Evidence for mediation by endothelium-derived hyperpolarizing factor of relaxation to bradykinin in the bovine isolated coronary artery independently of voltage-operated Ca2+ channels. Drummond GR, et al. **Br J Pharmacol** 1996 Mar;117(6):1035–40

Characterization of endothelium-derived relaxing factors released by bradykinin in human resistance arteries. Ohlmann P, et al. **Br J Pharmacol** 1997 Jun;121(4):657–64

Identification of a transcript release activity acting on ternary transcription complexes containing murine RNA polymerase I. Mason SW, et al. **EMBO J** 1997 Jan 2; 16(1):163–72

Involvement of host factors in transcription from baculovirus very late promoters -- a review. Hasnain SE, et al. **Gene** 1997 Apr 29;190(1):113–8 (45 ref.)

Endogenous sodium-potassium-chloride cotransport inhibitor in congestive heart failure. Dubois-Randé JL, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1464–70

Age-dependency and dietary influence on the hypothalamic ouabain-like factor in Milan hypertensive rats. Ferrandi M, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1571–4

Biological implications of magnesium salts at the molecular level. Theophanides T. **Magnes Res** 1996 Dec;9(4):259–62

Is a (n inborn) deficiency of prostacyclin synthesis stimulating plasma factor associated with increased lipoprotein(a)? Kritz H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Nov; 55(5):363–72

A murine host cell factor required for nicking of the dimer bridge of MVM recognizes two CG nucleotides displaced by 10 basepairs. Liu Q, et al. **Virology** 1996 Oct 1; 224(1):105–13

[Receptor-mediated transport of biologically active substances into cells using recombinant human growth hormone] Belousova IuV, et al. **Mol Biol (Mosk)** 1997 Jan–Feb;31(1):118–23 **(Rus)**

PHARMACOLOGY

Effects in vitro of pachymatismin, a glycoprotein from the marine sponge Pachymatisma johnstonii, on a non-small-cell bronchopulmonary carcinoma line (NSCLC-N6). Zidane M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2805–12

Increase of biosynthesis and degradation of collagen in normal lungs induced by soluble factors obtained from experimental pulmonary silicosis. Selman M, et al. **Arch Biol Med Exp (Santiago)** 1987;20(3–4):311–7

Regulation of inositol trisphosphate-induced membrane currents in Xenopus oocytes by a Jurkat cell calcium influx factor. Thomas D, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):649–56

Characterization and modulation of EDHF-mediated relaxations in the rat isolated superior mesenteric arterial bed. McCulloch AI, et al. **Br J Pharmacol** 1997 Apr; 120(8):1431–8

In vivo effect of pachymatismin, a new marine glycoprotein, on a human non-small-cell lung carcinoma. Zidane M, et al. **In Vivo** 1997 Mar–Apr;11(2):185–8

Specific stimulation of alpha 2–6 sialyltransferase activity by a novel cytosolic factor from rat colon. Nagpurkar A, et al. **Int J Biochem Cell Biol** 1996 Dec;28(12):1337–48

Middle-sized molecule fractions isolated from uremic ultrafiltrate and normal urine inhibit ingestive behavior in the rat. Anderstam B, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2453–60

Influence of cytochrome P-450 inhibitors on endothelium-dependent nitro-L-arginine-resistant relaxation and cromakalim-induced relaxation in rat mesenteric arteries. Van de Voorde J, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):827–32

Induction of interferon-gamma, transforming growth factor-beta, and interleukin-4 in mouse strains with different susceptibilities to Trypanosoma brucei brucei. Bakhiet M, et al. **J Interferon Cytokine Res** 1996 Jun; 16(6):427–33

A transferable, beta-naphthoflavone-inducible, hyperpolarizing factor is synthesized by native and cultured porcine coronary endothelial cells. Popp R, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):699–709

A low molecular weight substance purified from human placenta inhibits cAMP-dependent protein kinase and activates protein kinase C. Talwar N, et al. **Mol Cell Biochem** 1997 May;170(1–2):75–83

Purification of a factor from CSF in patient after SAH which induces the cytosolic free calcium elevation in vascular smooth muscle cells. Nakashima T, et al. **Neurol Res** 1997 Feb;19(1):51–6

Role of calcium in luteinization stimulator-enhanced progesterone production of porcine granulosa cells. Danišová A, et al. **Physiol Res** 1995;44(3):185–92

IgG2b inducing factor from rheumatoid arthritis synovial fluid synergizes with transforming growth factor-beta in promoting IgG2b antibody production in mouse B lymphocytes. Lettesjö H, et al. **Scand J Immunol** 1997 Jan; 45(1):50–4

IgG2b inducing factor from rheumatoid arthritis synovial fluid activates antibody production in highly purified mouse B lymphocytes. Lettesjö H, et al. **Scand J Immunol** 1997 Jan;45(1):43–9

Multiple regulation of carp (Cyprinus carpio L.) macrophages and neutrophilic granulocytes by serum factors: influence of infection with atypical Aeromonas salmonicida. Verburg-van Kemenade BM, et al. **Vet Immunol Immunopathol** 1996 May;51(1–2):189–200

[The effects of bito on the rate of burn surface healing and the content of molecular products of lipid peroxidation during burn injury] L'vovskaia EI, et al. **Patol Fiziol Eksp Ter** 1996 Jul–Sep;(3):24–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Search for an endogenous mammalian cardiotonic factor. Nakanishi K, et al. **Adv Exp Med Biol** 1996;404:219–24 (11 ref.)

Hyperkalemia alters EDHF-mediated hyperpolarization and relaxation in coronary arteries. He GW, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H760–7

Anesthetics alter relative contributions of NO and EDHF in rat cremaster muscle microcirculation. Loeb AL, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H618–27

Chronic hypoxia selectively augments endothelium-dependent pulmonary arterial vasodilation. Resta TC, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H888–96

Hyperkalemia exposure impairs EDHF-mediated endothelial function in the human coronary artery. He GW. **Ann Thorac Surg** 1997 Jan;63(1):84–7

Surgical preparation abolishes endothelium-derived hyperpolarizing factor-mediated hyperpolarization in the human saphenous vein. Yang JA, et al. **Ann Thorac Surg** 1997 Feb;63(2):429–33

Inhibition of contact cutaneous delayed hypersensitivity reactions to DNBC in guinea pigs by the monocyte locomotion inhibitory factor (MLIF) produced by axenically grown Entamoeba histolytica. Giménez Scherer JA, et al. **Arch Med Res** 1997;28 Spec No:237–8

The monocyte locomotion inhibitory factor (MLIF) produced by axenically grown Entamoeba histolytica fails to affect the locomotion and the respiratory burst of human eosinophils in vitro. Rico G, et al. **Arch Med Res** 1997;28 Spec No:233–4

Involvement of voltage-dependent potassium channels in the EDHF-mediated relaxation of rat hepatic artery. Zygmunt PM, et al. **Br J Pharmacol** 1997 May;121(1):141–9

Suppression of myelopoiesis and myeloid leukemia cell line proliferation by a novel bone marrow-derived factor, reptimed. DeKoter RP, et al. **Cell Immunol** 1997 Feb 1; 175(2):120–7

Endothelium-dependent hyperpolarization of vascular smooth muscle: role for a non-nitric oxide synthase product. Waldron GJ, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):3–7 (49 ref.)

Nitric oxide attenuates the release of endothelium-derived hyperpolarizing factor. Bauersachs J, et al. **Circulation** 1996 Dec 15;94(12):3341–7

Endothelium-derived hyperpolarizing factor. Félétou M, et al. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1082–90 (110 ref.)

Possible involvement of endothelium-derived hyperpolarizing factor in vascular responses of abdominal aorta from pregnant rats. Bobadilla RA, et al. **Hypertension** 1997 Sep;30(3 Pt 2):596–602

Endothelium-derived hyperpolarizing factor: a key mediator of the vasodilator action of bradykinin. Mombouli JV, et al. **Immunopharmacology** 1996 Jun;33(1–3):46–50 (25 ref.)

A type I interferon signaling factor, ISF21, encoded on chromosome 21 is distinct from receptor components and their down-regulation and Is necessary for transcriptional activation of interferon-regulated genes. Holland KA, et al. **J Biol Chem** 1997 Aug 22;272(34):21045–51

Expression of myelin proteins in the opossum optic nerve: late appearance of inhibitors implicates an earlier non-myelin factor in preventing ganglion cell regeneration. MacLaren RE. **J Comp Neurol** 1996 Aug 12;372(1):27–36

Parathyroid hypertensive factor and intracellular calcium regulation. Pang PK, et al. **J Hypertens** 1996 Sep; 14(9):1053–60 (65 ref.)

Treatment of endothelial cells with serum from women with preeclampsia: effect on neutrophil adhesion. Clark CJ, et al. **J Soc Gynecol Investig** 1997 Jan–Feb;4(1):27–33

Depolarizing cardiac arrest and endothelium-derived hyperpolarizing factor-mediated hyperpolarization and relaxation in coronary arteries: the effect and mechanism. He GW, et al. **J Thorac Cardiovasc Surg** 1997 May; 113(5):932–41

Human brain microvessel endothelial cell culture as a model system to study vascular factors of ischemic brain. Nagy Z, et al. **Keio J Med** 1996 Sep;45(3):200–6

Endothelium inhibits the palytoxin-induced depolarization and Ca2+ mobilization in porcine coronary artery through endothelium-derived hyperpolarizing factor and nitric oxide released by palytoxin. Ishii K, et al. **Life Sci** 1997; 60(7):PL91–7

Human sperm cytosolic factor triggers Ca2+ oscillations and overcomes activation failure of mammalian oocytes. Palermo GD, et al. **Mol Hum Reprod** 1997 Apr;3(4):367–74

Injection of a porcine sperm factor triggers calcium oscillations in mouse oocytes and bovine eggs. Wu H, et al. **Mol Reprod Dev** 1997 Feb;46(2):176–89

Distinct soluble astrocytic factors induce expression of outward K+ currents and ramification of brain macrophages. Eder C, et al. **Neurosci Lett** 1997 May 2; 226(3):147–50

Effects of lung expansion on lung liquid production in vitro by lungs from fetal guinea-pigs. II. Evidence for generation of an inhibitory factor. Nelson PG, et al. **Reprod Fertil Dev** 1996;8(3):347–54

Endothelium-derived hyperpolarizing factor(s): updating the unknown. Mombouli JV, et al. **Trends Pharmacol Sci** 1997 Jul;18(7):252–6 (71 ref.)

[Formation of a resting form of Bacillus cereus and Micrococcus luteus] Muliukin AL, et al. **Mikrobiologiia** 1996 Nov–Dec;65(6):782–9 (Eng. Abstr.) **(Rus)**

SECRETION

Rat hepatoma Reuber H-35 cells produce factors that promote the hatching of mouse embryos cultured in vitro. Kobayashi M, et al. **Biol Reprod** 1997 Apr;56(4):1041–9

Histamine-releasing activity in supernatants of mononuclear cells: contribution of monocyte chemotactic protein-1 activity compared with IgE-dependent activity. Pasmans SG, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):962–8

Regulation of rat cardiac myocyte growth by a neuronal factor secreted by PC12 cells. Atkins DL, et al. **Pediatr Res** 1997 Jun;41(6):832–41

Soluble factor(s) alone produced by primary porcine microvascular endothelial cells support the proliferation and differentiation of human CD34+ hematopoietic progenitor cells with a high replating potential. Davis TA, et al. **Transplant Proc** 1997 Jun;29(4):2003–4

THERAPEUTIC USE

The effects of early and late administration of M-20 derived interleukin-1 inhibitor on experimental systemic lupus erythematosus. Zandman-Goddard G, et al. **Immunol Lett** 1996 Nov;53(2–3):77–82

The future use of biologic therapies in combination for the treatment of rheumatoid arthritis. Strand V. **J Rheumatol Suppl** 1996 Mar;44:91–6 (51 ref.)

Therapeutic strategies in the prevention of acute renal failure. García RE. **Ren Fail** 1997 Mar;19(2):231–5 (23 ref.)

[The clinico-immunological efficacy of the new drug preparation Erbisol in patients with chronic hepatitis] Bychkova NG, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):65–7 (Eng. Abstr.) **(Rus)**

[The role of apitherapy in the combined treatment of patients with chronic nonspecific lung diseases] Masterov GD, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):155–8 (Eng. Abstr.) **(Rus)**

[The apitherapy of apical periodontitis] Kuriakina NV, et al. **Stomatologiia (Mosk)** 1996;Spec No:63–4 **(Rus)**

[The efficacy of the new bacterial preparation biosporin in treating acute intestinal infections] Gracheva NM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):75–7 (Eng. Abstr.) **(Rus)**

BIOLOGICAL MARKERS

see related

MOLECULAR PROBES

Interactions of rat repetitive sequence MspI8 with nuclear matrix proteins during spermatogenesis. Rogoliński J, et al. **Acta Biochim Pol** 1996;43(2):319–24

19th Annual symposium of the Belgian Society for Clinical Biology in collaboration with the Belgian Society for Clinical Chemistry. Liege, October 14, 1995. Abstracts. **Acta Clin Belg** 1996;51(4):279–303

Lipid biomarkers of adherence to low fat diets. Ashley JM. **Adv Exp Med Biol** 1996;399:115–29 (83 ref.)

Is taurine a preventive nutritional factor of cardiovascular diseases or just a biological marker of nutrition? Yamori Y, et al. **Adv Exp Med Biol** 1996;403:623–9 (26 ref.)

The role of immunologic and viral markers in predicting clinical outcome in HIV infection. Graham NM. **AIDS** 1996 Dec;10 Suppl 5:S21–5 (29 ref.)

Surrogate endpoints. Fleming TR, et al. **AIDS Clin Rev**

1997-98;:129-43 (17 ref.)
Serum markers for hepatic fibrosis in alcoholic liver disease: which is the best marker, type III procollagen, type IV collagen, laminin, tissue inhibitor of metalloproteinase, or prolyl hydroxylase? Tsutsumi M, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1512-7
Very-long-chain n-3 fatty acids as biomarkers for intake of fish and n-3 fatty acid concentrates [see comments] Andersen LF, et al. **Am J Clin Nutr** 1996 Sep;64(3):305-11 . Comment in: Am J Clin Nutr 1996 Sep;64(3):379-80.
Biomarkers and dietary intake data are mutually beneficial [editorial; comment] Connor SL. **Am J Clin Nutr** 1996 Sep; 64(3):379-80. Comment on: Am J Clin Nutr 1996 Sep;64(3):305-11.
Angiogenin: a marker for preterm delivery in midtrimester amniotic fluid [letter] Farina A, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):483-4
Identification of children with pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections by a marker associated with rheumatic fever. Swedo SE, et al. **Am J Psychiatry** 1997 Jan;154(1):110-2
The effect of apolipoprotein E genotype on biochemical markers of Alzheimer's disease. Schenk D, et al. **Ann N Y Acad Sci** 1996 Dec 16;802:92-100
Cartilage and bone macromolecules in knee joint synovial fluid in rheumatoid arthritis: relation to development of knee or hip joint destruction. Månsson B, et al. **Ann Rheum Dis** 1997 Feb;56(2):91-6
Heterogeneity of endothelial cells. Specific markers. Garlanda C, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul; 17(7):1193-202 (135 ref.)
Elevated levels of 92-kd type IV collagenase (matrix metalloproteinase 9) in giant cell arteritis. Sorbi D, et al. **Arthritis Rheum** 1996 Oct;39(10):1747-53
Genetic and immunological markers of insulin dependent diabetes in Black Americans. Leech NJ, et al. **Autoimmunity** 1995;22(1):27-32
Cerebral gliomas. Pathology and biological 'markers'. Collins VP. **Baillieres Clin Neurol** 1996 Jun;5(2):271-93 (112 ref.)
Platelet serotonergic markers and Tridimensional Personality Questionnaire measures in a clinical sample. Nelson EC, et al. **Biol Psychiatry** 1996 Aug 15;40(4):271-8
Biomarkers: from development to implementation. Proceedings of a symposium of the Canadian Federation of Biological Societies. Saskatoon, Saskatchewan, Canada, June 17, 1995. **Can J Physiol Pharmacol** 1996 Feb; 74(2):125-222
Reproducibility of the measurement of colonic proliferation using bromodeoxyuridine across laboratories. Roe DJ, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May; 5(5):349-53
Assessment of the role of diet in cancer prevention. Chesson A, et al. **Cancer Lett** 1997 Mar 19;114(1-2):237-45 (49 ref.)
Is urinary sulfate a biomarker for the intake of animal protein and meat? Houterman S, et al. **Cancer Lett** 1997 Mar 19; 114(1-2):295-6
Markers of Th1 and Th2 cells. Almerigogna F, et al. **Chem Immunol** 1996;63:30-50 (61 ref.)
Expression of a mutant (Arg92Gln) human cardiac troponin T, known to cause hypertrophic cardiomyopathy, impairs adult cardiac myocyte contractility. Marian AJ, et al. **Circ Res** 1997 Jul;81(1):76-85
Specificity of salivary thiocyanate as marker of cigarette smoking is not affected by alimentary sources. Galanti LM. **Clin Chem** 1997 Jan;43(1):184-5
Plasma malondialdehyde as biomarker for oxidative stress: reference interval and effects of life-style factors. Nielsen F, et al. **Clin Chem** 1997 Jul;43(7):1209-14
Clinical utility of carbohydrate-deficient transferrin to detect alcohol abuse in a general population [letter] Vermes I, et al. **Clin Chem** 1996 Dec;42(12):2048-50
A comparison of early gestational age markers in viable twin pregnancies resulting from in vitro fertilization-embryo transfer versus spontaneous conception with ovarian stimulation. Dietterich C, et al. **Clin Exp Obstet Gynecol** 1997;24(1):23-5
An indelible lineage marker for Xenopus using a mutated green fluorescent protein. Zernicka-Goetz M, et al. **Development** 1996 Dec;122(12):3719-24
The use of immunological markers in IDDM after more than 20 years from ICA description. Dotta F, et al. **Diabetes Metab Rev** 1996 Jul;12(2):121-6 (37 ref.)
The lysosomal-associated membrane protein LAMP-1 is a novel differentiation marker for HC11 mouse mammary epithelial cells. Cella N, et al. **Differentiation** 1996 Dec; 61(2):113-20
Molecular basis and clinical application of biological markers of bone turnover. Calvo MS, et al. **Endocr Rev** 1996 Aug; 17(4):333-68 (431 ref.)
Future research directions for evaluating human genetic and cancer risk from environmental exposures. Albertini RJ, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:503-10 (85 ref.)
Biomarker studies in northern Bohemia. Binková B, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:591-7
Future research directions to characterize environmental mutagens in highly polluted area. Srám RJ. **Environ Health Perspect** 1996 May;104 Suppl 3:603-7
Human biomonitoring: research goals and needs. Suk WA, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:479-83 (28 ref.)
Monitoring of bone turnover biological, preanalytical and technical criteria in the assessment of biochemical markers. Withold W. **Eur J Clin Chem Clin Biochem** 1996 Oct; 34(10):785-99 (150 ref.)
Fibronectin and antithrombin as markers of pre-eclampsia in pregnancy. Paternoster DM, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec;70(1):33-9
Biomarker expression in prostatic intraepithelial neoplasia. Myers RB, et al. **Eur Urol** 1996;30(2):153-66 (126 ref.)
Stress proteins as molecular biomarkers for environmental toxicology. Ryan JA, et al. **EXS** 1996;77:411-24 (29 ref.)
Glutathione antioxidant system as a marker of oxidative stress in chronic renal failure. Ceballos-Picot I, et al. **Free Radic Biol Med** 1996;21(6):845-53
Surrogate markers now provide physicians with the best means to manage antiretroviral therapy: the case for. Moyle GJ, et al. **Genitourin Med** 1997 Jun;73(3):216-20
Identification and characterization of differentiation-dependent Schwann cell surface antigens by novel monoclonal antibodies: introduction of a marker common to the non-myelin-forming phenotype. Wewetzer K, et al. **Glia** 1997 Mar;19(3):213-26
Molecular characterization of beta-trace protein in human serum and urine: a potential diagnostic marker for renal diseases. Hoffmann A, et al. **Glycobiology** 1997 Jun; 7(4):499-506
The assessment of bone metabolism in vivo using biochemical approaches. Russell RG. **Horm Metab Res** 1997 Mar; 29(3):138-44 (19 ref.)
Is Trichomonas vaginalis still a marker for other sexually transmitted infections in women? Reynolds M, et al. **Int J STD AIDS** 1996 Mar-Apr;7(2):131-2
Role of neopterin and 7,8-dihydroneopterin in human immunodeficiency virus infection: marker for disease progression and pathogenic link. Baier-Bitterlich G, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Oct 1;13(2):184-93 (97 ref.)
Sudden death due to troponin T mutations. Moolman JC, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):549-55
Surrogate markers in HIV disease. Peto T. **J Antimicrob Chemother** 1996 May;37 Suppl B:161-70 (25 ref.)
Consensus Conference on Laboratory Markers in HIV Infections. Rome, Italy, January 1996. **J Biol Regul Homeost Agents** 1995 Jul-Sep;9(3):71-120 (0 ref.)
Virological markers of progression: a UK experience. Loveday C. **J Biol Regul Homeost Agents** 1995 Jul-Sep; 9(3):100-4
Identification of a novel marker for primordial smooth muscle and its differential expression pattern in contractile vs noncontractile cells. Hungerford JE, et al. **J Cell Biol** 1997 May 19;137(4):925-37
New marker of bone resorption: hydroxyproline-containing peptide. High-performance liquid chromatographic assay without hydrolysis as an alternative to hydroxyproline determination: a preliminary report. Mazzi G, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):165-72
Circulating levels of interleukin-6 and tumor necrosis factor-alpha are elevated in primary hyperparathyroidism and correlate with markers of bone resorption--a clinical research center study [see comments] Grey A, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3450-4. Comment in: J Clin Endocrinol Metab 1996 Oct;81(10):3448-9.
Biochemical bone markers and bone mineral density during postmenopausal hormone replacement therapy with and without vitamin D3: a prospective, controlled, randomized study. Heikkinen AM, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2476-82
Free insulin-like growth factor I serum levels in 1430 healthy children and adults, and its diagnostic value in patients suspected of growth hormone deficiency. Juul A, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2497-502
Selecting and validating biologic markers for drug development. Colburn WA. **J Clin Pharmacol** 1997 May; 37(5):355-62 (20 ref.)
Maternal serum human chorionic gonadotropin as a marker for the delivery of low-birth-weight infants in women with unexplained elevations in maternal serum alpha-fetoprotein. Hurley TJ, et al. **J Matern Fetal Med** 1996 Nov-Dec;5(6):340-4
Defining the role of molecular markers to monitor disease, intervention, and cartilage breakdown in osteoarthritis. Lohmander LS, et al. **J Rheumatol** 1997 Apr;24(4):782-5
Following the disease course in systemic lupus erythematosus: are serologic variables of any use? [editorial; comment] Swaak AJ, et al. **J Rheumatol** 1996 Nov; 23(11):1842-4 (12 ref.). Comment on: J Rheumatol 1996 Nov;23(11):1891-6.
Biochemical markers of upper esophageal sphincter compliance in patients with Zenker's diverticulum. Venturi M, et al. **J Surg Res** 1997 Jun;70(1):46-8
Screening blood donors for markers of new viruses [comment] Allain JP. **Lancet** 1997 Mar 1;349(9052):584-5 . Comment on: Lancet 1997 Mar 1;349(9052):609-11.
Short-term effect of parathyroidectomy on biochemical markers in primary and secondary hyperparathyroidism. Hoshino H, et al. **Miner Electrolyte Metab** 1997;23(2):93-9
Changes of bone markers during long-term intravenous calcitriol therapy in maintenance dialysis patients. Lee SH, et al. **Miner Electrolyte Metab** 1996;22(4):219-23
Cell-surface markers for assessing gene transfer into human hematopoietic cells [see comments] Phillips K, et al. **Nat Med** 1996 Oct;2(10):1154-6 (25 ref.). Comment in: Nat Med 1996 Dec;2(12):1280-1.
A monoclonal antibody (1F3) to human glomerular epithelial cells: a new marker for renal epithelial cell injury. Kagami S, et al. **Nephron** 1997;75(1):65-71
Markers of oxidative stress in fit, health-conscious elderly people living in the Paris area. The Research Group on Ageing (GERBAP) [see comments] Cals MJ, et al. **Nutrition** 1997 Apr;13(4):319-26. Comment in: Nutrition 1997 Apr;13(4):377-8.
Identifying environmental risk to male reproductive function by occupational sperm studies: logistics and design options. Bonde JP, et al. **Occup Environ Med** 1996 Aug;53(8):511-9 (56 ref.)
Markers and mediators of inflammation in neonatal lung disease. Ozdemir A, et al. **Pediatr Pulmonol** 1997 Apr; 23(4):292-306 (153 ref.)
Combining inhibin A with existing second-trimester markers in maternal serum screening for Down's syndrome. Cuckle HS, et al. **Prenat Diagn** 1996 Dec;16(12):1095-100
Impact of disease on markers of macronutrient status. Shenkin A. **Proc Nutr Soc** 1997 Mar;56(1B):433-41 (29 ref.)
Metacarpal growth and systemic markers of bone metabolism in the ovine fetus. Collignon H, et al. **Reprod Fertil Dev** 1996;8(2):287-95
Cardiac markers in the early hours of acute myocardial infarction: clinical performance of creatine kinase, creatine kinase MB isoenzyme (activity and mass concentration), creatine kinase MM and MB subform ratios, myoglobin and cardiac troponin T. Hetland O, et al. **Scand J Clin Lab Invest** 1996 Dec;56(8):701-13
Implications of automated creatine kinase (CK)-MM1,2,3/CK-MB1,2 isoform analysis as an early marker for the detection of myocardial tissue damage. Swaanenburg JC, et al. **Scand J Clin Lab Invest** 1996 Nov; 56(7):627-33
Clinical usefulness of markers of bone degradation and formation. Demers LM. **Scand J Clin Lab Invest Suppl** 1997;227:12-20 (28 ref.)
Biochemical markers in osteoporosis. Kanis JA. **Scand J Clin Lab Invest Suppl** 1997;227:6-11 (23 ref.)
Biochemical markers as surrogates in clinical trials in patients with metastatic bone disease and osteoporosis. Schlosser K, et al. **Scand J Clin Lab Invest Suppl** 1997;227:21-8
IFCC committee on markers for bone turnover and bone disease--project presentation. Woloszczuk W. **Scand J Clin Lab Invest Suppl** 1997;227:95-9 (11 ref.)
Circulating telopeptide type I is a peripheral marker of thyroid hormone action in hyperthyroidism and during levothyroxine suppressive therapy. Loviselli A, et al. **Thyroid** 1997 Aug;7(4):561-6
Human placental alkaline phosphatase as a histochemical marker of gene expression in transgenic mice. DePrimo SE, et al. **Transgenic Res** 1996 Nov;5(6):459-66
[Oxidative stress: value of its demonstration in medical biology and problems posed by the choice of a marker] Favier A. **Ann Biol Clin (Paris)** 1997 Jan-Feb;55(1):9-16 (25 ref.) (Eng. Abstr.) **(Fre)**
[Expression of macrophage markers in childhood and adult Langerhans histiocytosis (LCH)] Köhalmi F, et al. **Orv Hetil** 1997 Jun 1;138(22):1399-402 (Eng. Abstr.) **(Hun)**
[Apoptosis: an important stage in the assessment of the immune system according to the parathyroid principle] Cheredeev AN, et al. **Klin Lab Diagn** 1997 Jul;(7):31-5 **(Rus)**
[Biochemical markers of bone metabolism] Leiva L. **Rev Med Chil** 1996 Aug;124(8 Suppl):54-60 (18 ref.) **(Spa)**

ANALYSIS

Skin-derived antileukoproteinase (SKALP) and epidermal fatty acid-binding protein (E-FABP): two novel markers of the psoriatic phenotype that respond differentially to topical steroid. Kuijpers AL, et al. **Acta Derm Venereol** 1997 Jan;77(1):14-9
Diverticulitis of the sigmoid colon. A comparison of CT, colonic enema and laparoscopy. Stefánsson T, et al. **Acta Radiol** 1997 Mar;38(2):313-9
Carbohydrate-deficient transferrin as a marker of alcohol consumption in male patients with liver disease. Rublo M, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):923-7
Lack of detection of myocardial injury during competitive races of 100 miles lasting 18 to 30 hours. Laslett L, et al. **Am J Cardiol** 1997 Aug 1;80(3):379-80
Biochemical markers as additional measurements in studies of the accuracy of dietary questionnaire measurements: conceptual issues. Kaaks RJ. **Am J Clin Nutr** 1997 Apr; 65(4 Suppl):1232S-1239S (29 ref.)
Biochemical markers as additional measurements in dietary validity studies: application of the method of triads with examples from the European Prospective Investigation into Cancer and Nutrition. Ocké MC, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1240S-1245S (14 ref.)
Hepatic iron stainings in chronic hepatitis C patients with low HCV RNA levels: a predictive marker for IFN therapy. Akiyoshi F, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1463-6
Antiendothelial cell antibodies: useful markers of systemic sclerosis. Salojin KV, et al. **Am J Med** 1997 Feb; 102(2):178-85
Biologic markers of arthritis [letter; comment] Slater R.

Am J Orthop 1996 Aug;25(8):521, 570. Comment on: Am J Orthop 1996 Apr;25(4):263–72.
Prognostic relevance of a novel proliferation marker, Ki–S11, for soft–tissue sarcoma. A multivariate study. Rudolph P, et al. **Am J Pathol** 1997 Jun;150(6):1997–2007
Pulmonary epithelial cell injury and alveolar–capillary permeability in berylliosis. Inoue Y, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):109–15
Biological markers of acute lung injury: prognostic and pathogenetic significance. Pittet JF, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1187–205 (257 ref.)
Developmental expression of neuronal and endocrine markers in the parathyroid glands of the rat. Luts L, et al. **Anat Embryol (Berl)** 1997 Jun;195(6):515–24
The performance and utility of biochemical markers of bone turnover: do we know enough to use them in clinical practice? Blumsohn A, et al. **Ann Clin Biochem** 1997 Sep; 34 (Pt 5):449–59 (71 ref.)
Chondroitin and keratan sulphate epitopes, glycosaminoglycans, and hyaluronan in progressive versus non–progressive osteoarthritis. Fawthrop F, et al. **Ann Rheum Dis** 1997 Feb;56(2):119–22
Randomised controlled trial of inhaled corticosteroids (fluticasone propionate) in cystic fibrosis. Balfour–Lynn IM, et al. **Arch Dis Child** 1997 Aug;77(2):124–30
The relationships among performance measures in the selection of diagnostic tests. Einstein AJ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):110–7
Specificity of cANCA for Wegener's granulomatosis [letter] Nolan P, et al. **Aust N Z J Med** 1996 Oct;26(5):720–1 (4 ref.)
Biochemical markers of bone turnover in Camurati–Engelmann disease: a report on four cases in one family. Hernández MV, et al. **Calcif Tissue Int** 1997 Jul; 61(1):48–51
Bone markers in osteoporosis and malignancy. Lipton A, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:11–5
Evaluation of proliferating cell nuclear antigen as a surrogate end point biomarker in actinic keratosis and adjacent, normal–appearing, and non–sun–exposed human skin samples. Einspahr J, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):343–8
Influence of diets containing high and low risk factors for colon cancer on early stages of carcinogenesis in human flora–associated (HFA) rats. Hambly RJ, et al. **Carcinogenesis** 1997 Aug;18(8):1535–9
Biological markers in inflammatory rheumatic diseases. Hilliquin P. **Cell Mol Biol (Noisy–le–grand)** 1995 Dec; 41(8):993–1006 (119 ref.)
Effect of menthol cigarettes on biochemical markers of smoke exposure among black and white smokers. Clark PI, et al. **Chest** 1996 Nov;110(5):1194–8
Exhaled pentane levels in acute asthma. Olopade CO, et al. **Chest** 1997 Apr;111(4):862–5
Quantification of carbohydrate–deficient transferrin by ion–exchange chromatography with an enzymatically prepared calibrator. Renner F, et al. **Clin Chem** 1997 Mar; 43(3):485–90
Serum carbohydrate–deficient transferrin in patients with nonalcoholic liver disease and with hepatocellular carcinoma. Murawaki Y, et al. **Clin Chim Acta** 1997 Mar 18;259(1–2):97–108
An approach to the validation of markers for use in AIDS clinical trials. Mildvan D, et al. **Clin Infect Dis** 1997 May; 24(5):764–74 (184 ref.)
Measurement of markers of osteoclast and osteoblast activity in patients with acute and chronic diabetic Charcot neuroarthropathy. Gough A, et al. **Diabet Med** 1997 Jul; 14(7):527–31
Cotinine as a biomarker of environmental tobacco smoke exposure. Benowitz NL. **Epidemiol Rev** 1996;18(2):188–204 (94 ref.)
Biochemical markers in acute myocardial infarction—the beginning of a new era? [editorial; comment] Erhardt L. **Eur Heart J** 1996 Dec;17(12):1781–2. Comment on: Eur Heart J 1996 Dec;17(12):1852–9.
Flow cytometric analysis of platelet activation markers CD62P and CD63 in patients with coronary artery disease. Murakami T, et al. **Eur J Clin Invest** 1996 Nov; 26(11):996–1003
Inflammatory markers of outcome. Grigg J, et al. **Eur Respir J Suppl** 1996 Apr;21:16s–21s (31 ref.)
Association of nuclear matrix proteins with granular and threaded nuclear bodies in cell lines undergoing apoptosis. Zweyer M, et al. **Exp Cell Res** 1997 Feb 1;230(2):325–36
A subpopulation of reactive astrocytes at the immediate site of cerebral cortical injury. Yang HY, et al. **Exp Neurol** 1997 Jul;146(1):199–205
Ex vivo cytokine release from whole blood. A routine method for health effect screening. Schins RP, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):494–6
Biomarkers in nasal lavage as a tool for the assessment of health effects of photochemical air pollution. A feasibility study with volunteers. Steerenberg PA, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):232–4
Solitary fibrous tumour of the liver with CD34 expression [see comments] Barnoud R, et al. **Histopathology** 1996 Jun; 28(6):551–4. Comment in: Histopathology 1997 Apr;30(4):396–7.
Immunohistochemical expression of endothelial markers in left atrial myxomas: a study of six cases. Farrell DJ, et al. **Histopathology** 1996 Feb;28(2):147–52
C–reactive protein as an indicator of complications in bacterial meningitis. Singh UK, et al. **Indian Pediatr** 1996 May;33(5):373–6
FEF25–75 as a marker of airway obstruction in asthmatic children during reduced mite exposure at high altitude. Valletta EA, et al. **J Asthma** 1997;34(2):127–31
Prostatic intraepithelial neoplasia (PIN) and other prostatic lesions as risk factors and surrogate endpoints for cancer chemoprevention trials. Bostwick DG, et al. **J Cell Biochem Suppl** 1996;25:156–64 (59 ref.)
Dehydroepiandrosterone sulfate: a biomarker of primate aging slowed by calorie restriction. Lane MA, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2093–6
A longitudinal study of various crevicular fluid components as markers of periodontal disease activity. Nakashima K, et al. **J Clin Periodontol** 1996 Sep;23(9):832–8
Possible markers for postmortem drug redistribution. Langford AM, et al. **J Forensic Sci** 1997 Jan;42(1):88–92
Perspective: validating surrogate markers—are we being naive? De Gruttola V, et al. **J Infect Dis** 1997 Feb; 175(2):237–46 (21 ref.)
Retroviral marking identifies grafted autologous keratinocytes in porcine wounds receiving cultured epithelium. Ng RL, et al. **J Invest Dermatol** 1997 Apr; 108(4):457–62
Anti–Ro (SSA) antibodies: clinical significance and biological relevance [editorial; comment] Bouffard P, et al. **J Rheumatol** 1996 Nov;23(11):1838–41. Comment on: J Rheumatol 1996 Nov;23(11):1897–903.
Markers of inflammation and immune activation in chronic fatigue and chronic fatigue syndrome. Buchwald D, et al. **J Rheumatol** 1997 Feb;24(2):372–6
Fine specificity of anti–Ro(SSA) autoantibodies and clinical manifestations in patients with systemic lupus erythematosus [see comments] Zimmermann C, et al. **J Rheumatol** 1996 Nov;23(11):1897–903. Comment in: J Rheumatol 1996 Nov;23(11):1838–41.
Potential biomarkers of benzene exposure. Medeiros AM, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):519–39 (73 ref.)
Markers of mast cell degranulation. Hogan AD, et al. **Methods** 1997 Sep;13(1):43–52
Euro–Immunoanalyse '93. Proceedings. Lyon, France, 3–5 February 1993. **Nucl Med Biol** 1994 Apr;21(3):287–572
Usefulness of markers in managing tobacco withdrawal. Roussel G, et al. **Pathol Biol (Paris)** 1997 Jun;45(6):467–71
Metallothionein: a potential marker for differentiating benign and neoplastic gastrointestinal lymphoid infiltrates. Rizkalla KS, et al. **Pathology** 1997 May;29(2):141–6
Multiple marker screening for Down syndrome in twin pregnancies. Neveux LM, et al. **Prenat Diagn** 1996 Jan; 16(1):29–34
New prognostic factors in oncology. Sgambato A, et al. **Rays** 1996 Oct–Dec;21(4):559–72 **(Eng, Ita)**
Lymphocyte activation markers in peripheral blood before and after natural exposure to allergen in asthmatic patients. Majori M, et al. **Respiration** 1997;64(1):45–9
Biochemical markers of bone turnover in osteoporosis. Delmas PD, et al. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):31S–36S (70 ref.)
Mathematical tools for demonstrating the clinical usefulness of biochemical markers. Boyd JC. **Scand J Clin Lab Invest Suppl** 1997;227:46–63 (42 ref.)
Analytical requirements for biochemical bone marker assays. Dessauer A. **Scand J Clin Lab Invest Suppl** 1997;227:84–9 (3 ref.)
Circulating mediators in acute pancreatitis as predictors of severity. Larvin M. **Scand J Gastroenterol Suppl** 1996; 219:16–9 (15 ref.)
Environmental and urinary reference values as markers of exposure to hydrocarbons in urban areas. Minoia C, et al. **Sci Total Environ** 1996 Dec 2;192(2):163–82
Is seminal prostatic acid phosphatase a reliable marker for male infertility? Singh G, et al. **Singapore Med J** 1996 Dec; 37(6):598–9
Estimating the proportion of treatment effect explained by a surrogate marker. Lin DY, et al. **Stat Med** 1997 Jul 15; 16(13):1515–27
Biologic markers of exposure: current status and future research needs. Vine MF. **Toxicol Ind Health** 1996 Mar–Apr;12(2):189–200 (38 ref.)
An automatable microassay for phenyl valerate esterase activities sensitive to organophosphorus compounds. Escudero MA, et al. **Toxicol Lett** 1996 Dec 31;89(3):241–7
Usefulness of DNA viral load quantification for cytomegalovirus disease monitoring in renal and pancreas/renal transplant recipients. Imbert–Marcille BM, et al. **Transplantation** 1997 May 27;63(10):1476–81
Blood cell markers. Grindem CB. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1043–64 (64 ref.)
[Erythropoietin as a marker of fetal hypoxia] Fingerová H, et al. **Ceska Gynekol** 1997 Apr;62(2):86–8 **(Cze)**
[Comparative study of serological markers for intolerance to gluten] Dubel L, et al. **Ann Biol Clin (Paris)** 1996; 54(7):303–6 (Eng. Abstr.) **(Fre)**
[Idiopathic interstitial pneumonia associated with a high level of CA19–9 in serum and with CA19–9 in lung tissue] Sugiyama M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):561–5 (Eng. Abstr.) **(Jpn)**
[Study of hemostatic molecular marker] Wada H, et al. **Rinsho Byori** 1997 Apr;45(4):310–4 (Eng. Abstr.) **(Jpn)**
[Nine cases of debrancher deficiency (glycogen storage disease type III) presenting muscle weakness—study on clinicobiochemical analysis] Fukuda T, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):540–3 (Eng. Abstr.) **(Jpn)**
[Cardiac natriuretic peptides as markers of left ventricular dysfunction (see comments)] Omland T, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):943–8 (Eng. Abstr.). Comment in: Tidsskr Nor Laegeforen 1997 Jun 30;117(17):2527. **(Nor)**
[Cardiac natriuretic peptides as markers of left ventricular dysfunction (letter; comment)] Talstad I. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2527. Comment on: Tidsskr Nor Laegeforen 1997 Mar 10;117(7):943–8. **(Nor)**
[Tumor and inflammation markers in diagnosis of serous pleural exudate] Trubnikov GA, et al. **Klin Med (Mosk)** 1997;75(6):15–20 (53 ref.) **(Rus)**
[Biochemical markers in acute myocardial infarct] Pecháň I. **Bratisl Lek Listy** 1996 Jul;97(7):397–405 (72 ref.) (Eng. Abstr.) **(Slo)**
[Current and future prospects of molecular biology techniques in the epidemiologic study of nosocomial infections (editorial)] Vila J. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):341–4 **(Spa)**
[Tryptase: a diagnostic marker in allergic diseases] Martínez Infante E, et al. **Rev Alerg Mex** 1996 May–Jun;43(3):73–6 (58 ref.) (Eng. Abstr.) **(Spa)**
[Warning signals in acute abdominal disorders. Lactate is the best marker of mesenteric ischemia] Lange H, et al. **Lakartidningen** 1997 May 14;94(20):1893–6 (Eng. Abstr.) **(Swe)**

BLOOD

Evaluation of a new assay for cardiac troponin I vs creatine kinase–MB for the diagnosis of acute myocardial infarction. Biochemical Markers for Acute Myocardial Ischemia (BAMI) Study Group [see comments] Brogan GX Jr, et al. **Acad Emerg Med** 1997 Jan;4(1):6–12. Comment in: Acad Emerg Med 1997 Jan;4(1):3–5.
Cardiac markers: where do we go from here? [editorial; comment] O'Neil BJ. **Acad Emerg Med** 1997 Jan;4(1):3–5 . Comment on: Acad Emerg Med 1997 Jan;4(1):6–12. Comment on: Acad Emerg Med 1997 Jan;4(1):13–21.
Early diagnostic efficiency of cardiac troponin I and Troponin T for acute myocardial infarction [see comments] Tucker JF, et al. **Acad Emerg Med** 1997 Jan;4(1):13–21. Comment in: Acad Emerg Med 1997 Jan;4(1):3–5.
Soluble interleukin–2 receptor (sIL–2R) is a marker of disease activity in psoriasis: a comparison of sIL–2R, sCD27, sCD4, sCD8 and sICAM–1. De Rie MA, et al. **Acta Derm Venereol** 1996 Sep;76(5):357–60
Clinical significance of soluble interleukin–2 receptor. Chrobák L. **Acta Medica (Hradec Kralove)** 1996;39(1):3–6 (42 ref.)
Down syndrome and coeliac disease: usefulness of antigliadin and antiendomysium antibodies. Bonamico M, et al. **Acta Paediatr** 1996 Dec;85(12):1503–5
Procalcitonin and C–reactive protein levels in neonatal infections. Monneret G, et al. **Acta Paediatr** 1997 Feb; 86(2):209–12
Dependence of the hazard of AIDS on markers. Yong FH, et al. **AIDS** 1997 Feb;11(2):217–28
Proposed recommendations for research on biochemical markers for problematic drinking. Allen JP, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):244–7 (11 ref.)
ACOG issues educational bulletin on maternal serum screening. **Am Fam Physician** 1997 Mar;55(4):1454
Using serum markers in the early diagnosis of myocardial infarction [see comments] Chesebro MJ. **Am Fam Physician** 1997 Jun;55(8):2667–74 (25 ref.). Comment in: Am Fam Physician 1997 Jun;55(8):2591, 2594–5.
Is more rapid diagnosis of heart attack worthwhile? [editorial; comment] Jaffe A. **Am Fam Physician** 1997 Jun;55(8):2591, 2594–5. Comment on: Am Fam Physician 1997 Jun;55(8):2667–74.
Risk for exercise–induced myocardial injury for athletes performing prolonged strenuous endurance exercise [letter; comment] Mair J, et al. **Am J Cardiol** 1997 Aug 15; 80(4):543–4. Comment on: Am J Cardiol 1996 Aug 15;78(4):488–90.
Usefulness of positive troponin–T and negative creatine kinase levels in identifying high–risk patients with unstable angina pectoris. Pettijohn TL, et al. **Am J Cardiol** 1997 Aug 15;80(4):510–1
Pulse spectrum analysis of chemical factory workers with abnormal blood test. Wang WK, et al. **Am J Chin Med** 1996;24(2):199–203
Using biochemical markers to assess the validity of prospective dietary assessment methods and the effect of energy adjustment. Bingham SA, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1130S–1137S
Indexes of food and nutrient intakes as predictors of serum concentrations of nutrients: the problem of inadequate discriminant validity. The Polyp Prevention Trial Study Group. Marshall JR, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1269S–1274S
Elevated serum CA 125 concentration in patients with

tuberculous peritonitis: a case-control study. Simsek H, et al. **Am J Gastroenterol** 1997 Jul;92(7):1174-6

High plasma levels of the soluble form of CD30 activation molecule reflect disease activity in patients with Wegener's granulomatosis. Wang G, et al. **Am J Med** 1997 Jun; 102(6):517-23

Can flow cytometric detection of platelet activation early in pregnancy predict the occurrence of preeclampsia? A prospective study. Konijnenberg A, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):434-42

Circulating endothelial cell adhesion molecules as diagnostic markers for the early identification of pregnant women at risk for development of preeclampsia. Krauss T, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):443-9

A comparison of four serum markers of fibrosis in the diagnosis of cirrhosis. Fabris C, et al. **Ann Clin Biochem** 1997 Mar;34 (Pt 2):151-5

Serum succinate by capillary zone electrophoresis: marker candidate for hypoxia. Komaromy-Hiller G, et al. **Ann Clin Lab Sci** 1997 Mar-Apr;27(2):163-8

Relationship between disease severity and inflammatory markers in cystic fibrosis. Koller DY, et al. **Arch Dis Child** 1996 Dec;75(6):498-501

Optimized automated apolipoprotein A-I assays as markers for coronary artery disease. Levinson SS, et al. **Arch Pathol Lab Med** 1997 Jul;121(7):678-84

Usefulness of procalcitonin for differentiation between activity of systemic autoimmune disease (systemic lupus erythematosus/systemic antineutrophil cytoplasmic antibody-associated vasculitis) and invasive bacterial infection. Eberhard OK, et al. **Arthritis Rheum** 1997 Jul; 40(7):1250-6

Serum biologic markers as predictors of disease progression in osteoarthritis of the knee [letter; comment] Georges C, et al. **Arthritis Rheum** 1997 Mar;40(3):590-1. Comment on: Arthritis Rheum 1995 Jun;38(6):760-7.

Effect of low dietary rubidium on plasma biochemical parameters and mineral levels in rats. Yokoi K, et al. **Biol Trace Elem Res** 1996 Feb;51(2):199-208

Primary hyperparathyroidism: biochemical markers and bone mineral density at multiple skeletal sites in Danish patients. Christiansen P, et al. **Bone** 1997 Jul;21(1):93-9

Axial osteomalacia: report of a new case with selective increase in axial bone mineral density. Demiaux-Domenech B, et al. **Bone** 1996 Jun;18(6):633-7

Time-dependent changes in biochemical bone markers and serum cholesterol in ovariectomized rats: effects of raloxifene HCl, tamoxifen, estrogen, and alendronate. Frolik CA, et al. **Bone** 1996 Jun;18(6):621-7

Truncation of the amino terminus of PTH alters its anabolic activity on bone in vivo. Hilliker S, et al. **Bone** 1996 Nov; 19(5):469-77

Bone remodeling alterations in myelodysplastic syndrome. Mellibovsky L, et al. **Bone** 1996 Oct;19(4):401-5

Morning or evening administration of nasal calcitonin? Effects on biochemical markers of bone turnover. Schlemmer A, et al. **Bone** 1997 Jan;20(1):63-7

Beta-2-microglobulin, neopterin and monocyte Fc gamma receptors in opportunistic infections of HIV-positive patients. Dunne J, et al. **Br J Biomed Sci** 1996 Dec; 53(4):263-9

Serum markers of bone metabolism in multiple myeloma: prognostic value of the carboxy-terminal telopeptide of type I collagen (ICTP). Nordic Myeloma Study Group (NMSG). Abildgaard N, et al. **Br J Haematol** 1997 Jan; 96(1):103-10

Gliostatin/platelet-derived endothelial cell growth factor as a clinical marker of rheumatoid arthritis and its regulation in fibroblast-like synoviocytes. Waguri Y, et al. **Br J Rheumatol** 1997 Mar;36(3):315-21

Net fluxes over working thigh of hormones, growth factors and biomarkers of bone metabolism during short lasting dynamic exercise. Brahm H, et al. **Calcif Tissue Int** 1997 Feb;60(2):175-80

Overnight suppression of parathyroid hormone and bone resorption markers by active absorbable algae calcium. A double-blind crossover study. Fujita T, et al. **Calcif Tissue Int** 1997 Jun;60(6):506-12

N-terminal peptide of type III procollagen: a possible predictor of colorectal carcinoma recurrence. Plebani M, et al. **Cancer** 1997 Apr 1;79(7):1299-303

Differential patterns of serum biomarkers of immune activation in human T-cell lymphotropic virus type I-associated myelopathy/tropical spastic paraparesis, and adult T-cell leukemia/lymphoma. Giusti RM, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):699-704

An investigation of multiple biomarkers among workers exposed to styrene and styrene-7,8-oxide. Rappaport SM, et al. **Cancer Res** 1996 Dec 1;56(23):5410-6

Isoelectric focusing (IEF) and immunofixation for determination of disialotransferrin. Dumon MF, et al. **Clin Biochem** 1996 Dec;29(6):549-53

Maternal hematocrit and albumin as predictors of intrauterine growth retardation and preterm delivery. Forest JC, et al. **Clin Biochem** 1996 Dec;29(6):563-6

New and traditional serum markers of bone metabolism in the detection of skeletal metastases. Plebani M, et al. **Clin Biochem** 1996 Feb;29(1):67-72

Comparative analysis of cardiac troponin I and creating kinase-MB as markers of acute myocardial infarction. Pervaiz S, et al. **Clin Cardiol** 1997 Mar;20(3):269-71

To T or not to T, that is the question [editorial; comment] Collinson PO. **Clin Chem** 1997 Mar;43(3):421-3 (37 ref.). Comment on: Clin Chem 1997 Mar;43(3):458-66. Comment on: Clin Chem 1997 Mar;43(3):476-84.

Serum CA-125 concentrations during midfollicular phase, a clinically useful and reproducible marker in diagnosis of advanced endometriosis. Hompes PG, et al. **Clin Chem** 1996 Nov;42(11):1871-4

Fatty acid ethyl esters: short-term and long-term serum markers of ethanol intake. Laposata M. **Clin Chem** 1997 Aug;43(8 Pt 2):1527-34 (53 ref.)

The search continues--an ideal marker of GFR [editorial] Swan SK. **Clin Chem** 1997 Jun;43(6 Pt 1):913-4

The carboxy-terminal cross-linked telopeptide of type I collagen (ICTP) is a potential serum marker of ongoing liver fibrosis. Ricard-Blum S, et al. **Clin Chim Acta** 1996 Apr 30;248(2):187-95

Plasma renin activity as a marker of renovascular injury in patients with rheumatoid arthritis. Mavrikakis ME, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):613-7

Interleukin 6: a possible marker of disease activity in adult onset Still's disease. Scheinberg MA, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):653-5

Increased beta 2-microglobulin (B2M) is useful in the detection of post-transplant lymphoproliferative disease (PTLD). Sasaki TM, et al. **Clin Transplant** 1997 Feb; 11(1):29-33

Insulin-like growth factor axis, bone and collagen turnover in children with atopic dermatitis treated with topical glucocorticosteroids. Wolthers OD, et al. **Dermatology** 1996;192(4):337-42

Established markers in second trimester maternal serum. Cuckle H. **Early Hum Dev** 1996 Dec 30;47 Suppl:S27-9 (18 ref.)

Markers for Down's syndrome in early pregnancy. Van Lith JM. **Early Hum Dev** 1996 Dec 30;47 Suppl:S105-9 (24 ref.)

In vitro activities in mussel hemocytes as biomarkers of environmental quality: a case study in the Abra Estuary (Biscay Bay). Cajaraville MP, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):253-60

Anguilla anguilla L. stress biomarkers recovery in clean water and secondary-treated pulp mill effluent. Santos MA, et al. **Ecotoxicol Environ Saf** 1996 Oct;35(1):96-100

Carboxy-terminal propeptide of type 1 procollagen (P1CP) and carboxy-terminal telopeptide of type 1 collagen (1CTP) as sensitive markers of bone metabolism in thyroid disease. Miyakawa M, et al. **Endocr J** 1996 Dec;43(6):701-8

Aphidicolin-sensitive specific common fragile sites: a biomarker of exposure to pesticides. Musio A, et al. **Environ Mol Mutagen** 1997;29(3):250-5

Multicentre evaluation of an immunological rapid test for the detection of troponin T in whole blood samples. Collinson PO, et al. **Eur J Clin Chem Clin Biochem** 1996 Jul;34(7):591-8

Minimal myocardial lesions caused by endomyocardial biopsy can be detected by a commercially available cardiac troponin-T enzyme-linked immunosorbent assay. Lang K, et al. **Eur J Clin Invest** 1996 Jun;26(6):451-3

Human serum amyloid A (SAA) protein: a prominent acute-phase reactant for clinical practice. Malle E, et al. **Eur J Clin Invest** 1996 Jun;26(6):427-35 (76 ref.)

New evidence that serum beta(2)-microglobulin behaves as a biological marker of bone remodelling in women. Ripoll E, et al. **Eur J Clin Invest** 1996 Aug;26(8):681-5

Weakness of biochemical markers of nutritional and inflammatory status as prognostic indices for growth retardation and morbidity of young children in central Africa. Tonglet R, et al. **Eur J Clin Nutr** 1997 Mar; 51(3):148-53

Liver function tests in adults with Plasmodium falciparum infection. Davies MP, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):873-5

Is maternal serum creatine kinase actually a marker for early diagnosis of ectopic pregnancy? Darai E, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1-2):25-7

Biochemical markers of neurotoxicity. A review of mechanistic studies and applications. Manzo L, et al. **Hum Exp Toxicol** 1996 Mar;15 Suppl 1:S20-35 (118 ref.)

Using the blood concentration of 2,5-dimethylfuran as a marker for smoking. Ashley DL, et al. **Int Arch Occup Environ Health** 1996;68(3):183-7

Serum biochemical markers of bone turnover in healthy infants and children. Tommasi M, et al. **Int J Biol Markers** 1996 Jul-Sep;11(3):159-64

The prognostic value of serum troponin T in unstable angina. Gökhan Cin V, et al. **Int J Cardiol** 1996 Mar;53(3):237-44

The soluble interleukin-2 receptor, peripheral blood, and reticulocyte fractions in acute pancreatitis. Salomone T, et al. **Int J Pancreatol** 1996 Dec;20(3):197-203

Resistance to alpha interferon therapy in HCV chronic liver disease: role of hepatic fibrosis. Di Costanzo GG, et al. **Ital J Gastroenterol** 1996 Apr;28(3):140-6

Prognostic value of cardiac troponin T after noncardiac surgery: 6-month follow-up data. Lopez-Jimenez F, et al. **J Am Coll Cardiol** 1997 May;29(6):1241-5

Increased bone turnover in late postmenopausal women is a major determinant of osteoporosis. Garnero P, et al. **J Bone Miner Res** 1996 Mar;11(3):337-49

Sequential effects of chronic human PTH (1-84) treatment of estrogen-deficiency osteopenia in the rat. Mitlak BH, et al. **J Bone Miner Res** 1996 Apr;11(4):430-9

Plasma endothelin in congestive heart failure: a predictor of cardiac death? Galatius-Jensen S, et al. **J Card Fail** 1996 Jun;2(2):71-6

Sex-related difference in the growth of prolactinomas: a clinical and proliferation marker study. Delgrange E, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2102-7

Effects of age and estrogen status on serum parathyroid hormone levels and biochemical markers of bone turnover in women: a population-based study. Khosla S, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1522-7

Serum insulin-like growth factor I (IGF-I), IGF-binding protein-1 and -3, and the acid-labile subunit as serum markers of body composition during growth hormone (GH) therapy in adults with GH deficiency. Thorén M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):223-8

Reliability of immunologic markers of celiac sprue in the assessment of mucosal recovery after gluten withdrawal. Sategna-Guidetti C, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):101-4

Troponin-T as a serum marker for myocardial infarction. Murthy VV, et al. **J Clin Lab Anal** 1997;11(3):125-8

Haemostatic markers, inflammatory parameters and lipids in male and female patients in the Angina Prognosis Study in Stockholm (APSIS). A comparison with healthy controls. Held C, et al. **J Intern Med** 1997 Jan;241(1):59-69

Normal serum indices of bone collagen biosynthesis and degradation in small for gestational age infants. Namgung R, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):224-8

Risk factors for osteonecrosis in systemic lupus erythematosus. Mont MA, et al. **J Rheumatol** 1997 Apr; 24(4):654-62

Biochemical markers of nutrition in elite-marathon runners. Crespo R, et al. **J Sports Med Phys Fitness** 1995 Dec; 35(4):268-72

Carbamylated hemoglobin: a potential marker for the adequacy of hemodialysis therapy in end-stage renal failure. Davenport A, et al. **Kidney Int** 1996 Oct; 50(4):1344-51

Biochemical markers for non-invasive diagnosis of hyperparathyroid bone disease and adynamic bone in patients on haemodialysis. Gerakis A, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2430-8

Hepatitis B virus markers in adult patients with glomerular diseases [letter] Gonzalo A, et al. **Nephron** 1996;72(1):113-4

Noninvasive first-trimester screening for fetal aneuploidy. Sherer DM, et al. **Obstet Gynecol Surv** 1997 Feb; 52(2):123-9 (89 ref.)

Nutritional assessment in pediatric patients: how can the laboratory help? Goldsmith B. **Pediatr Pathol Lab Med** 1996 Jan-Feb;16(1):1-7 (13 ref.)

Diagnosis of pre-disseminated intravascular coagulation stage with hemostatic molecular markers. The Mie DIC Study Group. Wada H, et al. **Pol J Pharmacol** 1996 Mar-Apr;48(2):225-8

Down's syndrome screening marker levels following assisted reproduction. Barkai G, et al. **Prenat Diagn** 1996 Dec; 16(12):1111-4

Multiple-marker screen positive results in Rubinstein-Taybi syndrome [letter; comment] Fryns JP, et al. **Prenat Diagn** 1996 Oct;16(10):968-9. Comment on: Prenat Diagn 1996 Feb;16(2):183-4.

Triple marker screening in native Japanese women. Onda T, et al. **Prenat Diagn** 1996 Aug;16(8):713-7

Serum markers for Down's syndrome in relation to number of previous births and maternal age. Wald NJ, et al. **Prenat Diagn** 1996 Aug;16(8):699-703

Effect of allowing for ethnic group in prenatal screening for Down's syndrome. Watt HC, et al. **Prenat Diagn** 1996 Aug; 16(8):691-8

Impact of disease on markers of micronutrient status. Thurnham DI. **Proc Nutr Soc** 1997 Mar;56(1B):421-31 (66 ref.)

Biochemical markers of alcohol abuse. Sharpe PC, et al. **QJM** 1996 Feb;89(2):137-44

Ubiquinol/ubiquinone ratio as marker of oxidative stress in coronary artery disease. Lagendijk J, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan;95(1):11-20

Resuscitation from out-of-hospital cardiac arrest: implications for cardiac enzyme estimation. Grubb NR, et al. **Resuscitation** 1996 Nov;33(1):35-41

How useful are bone turnover markers in rheumatoid arthritis? Influence of disease activity and corticosteroid therapy. Cortet B, et al. **Rev Rhum Engl Ed** 1997 Mar; 64(3):153-9

Major histocompatibility complex markers and disease heterogeneity in one hundred eight patients with systemic onset juvenile chronic arthritis. Desaymard C, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):9-16

Symptomatic HIV infection in infancy--clinical and laboratory markers of infection. Meyer MP, et al. **S Afr Med J** 1997 Feb;87(2):158-62

Prenatal biochemical diagnostics of inborn developmental defects. Malbohan I, et al. **Sb Lek** 1994;95(4):277-83

Serum cardiac troponin T concentrations in hospitalized patients without acute myocardial infarction. Apple FS, et al. **Scand J Clin Lab Invest** 1996 Feb;56(1):63-8

Serum aminoterminal propeptide of type III procollagen (S-PIIINP) and hepatobiliary dysfunction in patients with ulcerative colitis. Leidenius MH, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):297-305

Biomonitoring of early effects on the kidney or the lung. Bernard A, et al. **Sci Total Environ** 1997 Jun 20; 199(1-2):205-11 (10 ref.)

Age-related reference values for activation markers of the

coagulation and fibrinolytic systems in children. Ries M, et al. **Thromb Res** 1997 Feb 15;85(4):341–4

Zearalenone induces modifications of haematological and biochemical parameters in rats. Maaroufi K, et al. **Toxicon** 1996 May;34(5):535–40

Limited utility of alanine aminotransferase screening of hepatitis C antibody-screened blood donors. Cable R, et al. **Transfusion** 1997 Feb;37(2):206–10

BT563 significantly decreases sIL-2R plasma levels despite acute allograft rejection. Mueller AR, et al. **Transplant Proc** 1996 Dec;28(6):3103–5

Value of circulating immune parameters in renal transplantation. Rebhandl W, et al. **Transplant Proc** 1997 May;29(3):1881–5

Ovarian morphology as a predictor of hormonal values in polycystic ovary syndrome. van der Westhuizen S, et al. **Ultrasound Obstet Gynecol** 1996 May;7(5):335–41

[From happy to worrisome expectation? Various ethical problems concerning the triple test (letter; comment)] Beekhuis JR, et al. **Ned Tijdschr Geneeskd** 1997 Jan 4; 141(1):62–3. Comment on: Ned Tijdschr Geneeskd 1996 Oct 12;140(41):2024–5. **(Dut)**

[Prenatal diagnosis for trisomy 21: triple test more efficient than age criterion (letter; comment)] Beekhuis JR, et al. **Ned Tijdschr Geneeskd** 1997 Jan 4;141(1):63. Comment on: Ned Tijdschr Geneeskd 1996 Oct 12;140(41):2032–5. **(Dut)**

[Cardiac troponin I and T in unstable angina: incidence, correlation, kinetics of release and prognostic value] Musso P, et al. **G Ital Cardiol** 1996 Sep;26(9):1013–23 (Eng. Abstr.) **(Ita)**

[Serum levels of remnant-like particles-cholesterol (RLP-C) in patients on hemodialysis] Hamada C, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug;38(8):329–34 (Eng. Abstr.) **(Jpn)**

[A quantitative of serum biotin with microplate-assay using affinity streptavidin] Hashimoto N, et al. **Rinsho Byori** 1996 Oct;44(10):970–6 (Eng. Abstr.) **(Jpn)**

[Prevalence of serological markers for viral hepatitis B and C in patients and medical personnel in the hematologic ward of Novosibirsk city hospital No. 2] Netesova IG, et al. **Vopr Virusol** 1997 Jan-Feb;42(1):27–30 (Eng. Abstr.) **(Rus)**

[Antineutrophil cytoplasmic antibodies (ANCA): study of their presence in diseases not associated with arteritis] Novo E, et al. **Invest Clin** 1996 Jun;37(2):83–94 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Strategic utilization of cardiac markers for the diagnosis of acute myocardial infarction. Wong SS. **Ann Clin Lab Sci** 1996 Jul-Aug;26(4):301–12

Changes in immunologic cell surface markers during cocaine withdrawal in pregnant women. Johnson TR, et al. **Brain Behav Immun** 1996 Dec;10(4):324–36

cis-trans lycopene isomers, carotenoids, and retinol in the human prostate. Clinton SK, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Oct;5(10):823–33

Evaluation of bone turnover in postmenopause, vertebral fracture, and hip fracture using biochemical markers for bone formation and resorption. Takahashi M, et al. **J Endocrinol Invest** 1997 Mar;20(3):112–7

Low-density lipoprotein particle size is not a discriminating marker for atherogenic risk in male offspring of parents with early coronary artery disease. Slyper AH, et al. **Metabolism** 1997 Aug;46(8):954–8

URINE

Using biochemical markers to assess the validity of prospective dietary assessment methods and the effect of energy adjustment. Bingham SA, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1130S–1137S

Urinary biochemical markers of dietary intake in the INTERSALT study. Dyer A, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1246S–1253S (34 ref.)

Intra-individual variation in bone resorption markers in urine. Popp-Snijders C, et al. **Ann Clin Biochem** 1996 Jul;33 (Pt 4):347–8

Comparative evaluation of markers of bone resorption in patients with breast cancer-induced osteolysis before and after bisphosphonate therapy. Body JJ, et al. **Br J Cancer** 1997;75(3):408–12

Correspondence re: C. Chen, K. E. Malone, J. Prunty, and J. R. Daling, Measurement of urinary estrogen metabolites using a monoclonal enzyme-linked immunoassay kit: assay performance and feasibility for epidemiological studies [letter; comment] Bradlow HL, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):145–7. Comment on: Cancer Epidemiol Biomarkers Prev 1996 Sep;5(9):727–32.

Metabolites of a tobacco-specific nitrosamine, 4-(methylnitrosamino)- 1-(3-pyridyl)-1-butanone (NNK), in the urine of smokeless tobacco users: relationship between urinary biomarkers and oral leukoplakia. Kresty LA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul; 5(7):521–5

Excretion of DNA adducts of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and 2-amino-3,4,8-trimethylimidazo[4,5-f]quinoxaline, PhIP-dG, PhIP-DNA and DiMeIQx-DNA from the rat. Frandsen H. **Carcinogenesis** 1997 Aug;18(8):1555–60

8-epi PGF2 alpha generation during coronary reperfusion. A potential quantitative marker of oxidant stress in vivo. Delanty N, et al. **Circulation** 1997 Jun 3;95(11):2492–9

Inverse relation of dietary protein markers with blood pressure. Findings for 10,020 men and women in the INTERSALT Study. INTERSALT Cooperative Research Group. INTERnational study of SALT and blood pressure. Stamler J, et al. **Circulation** 1996 Oct 1;94(7):1629–34

Development of human renal function: reference intervals for 10 biochemical markers in fetal urine. Muller F, et al. **Clin Chem** 1996 Nov;42(11):1855–60

Standardization of pyridinium crosslinks, pyridinoline and deoxypyridinoline, for use as biochemical markers of collagen degradation. Robins SP, et al. **Clin Chem** 1996 Oct;42(10):1621–6

Urinary thiodiacetic acid. A selective biomarker for the cytochrome P450-catalyzed oxidation of 1,2-dibromoethane in the rat. Wormhoudt LW, et al. **Drug Metab Dispos** 1997 Apr;25(4):508–15

trans,trans-muconic acid as a biomarker of non-occupational environmental exposure to benzene. Ruppert T, et al. **Int Arch Occup Environ Health** 1997;69(4):247–51

N-acetyl-S-(dichlorophenyl)cysteines as suitable biomarkers for the monitoring of occupational exposure to 1,2-dichlorobenzene. Zenser LP, et al. **Int Arch Occup Environ Health** 1997;69(4):252–4

Biochemical markers of bone resorption compared with estimates of bone resorption from radiotracer kinetic studies in osteoporosis. Eastell R, et al. **J Bone Miner Res** 1997 Jan;12(1):59–65

Markers of bone resorption predict hip fracture in elderly women: the EPIDOS Prospective Study. Garnero P, et al. **J Bone Miner Res** 1996 Oct;11(10):1531–8

Synthesis of 2-thiothiazolidine-4-carboxylic acid and its chromatography in rat and human urine. Cox C, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):85–90

Decreased excretion of urine glycosaminoglycans as marker in renal amyloidosis. Tencer J, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1161–6

Intraindividual variability in bone markers in the urine. Jensen JE, et al. **Scand J Clin Lab Invest Suppl** 1997; 227:29–34

Urinary 28-kD calbindin-D as a new marker for damage to distal renal tubules caused by cisplatin-based chemotherapy. Takashi M, et al. **Urol Int** 1996;56(3):174–9

[Effect of clodronate in patients with multiple myeloma. Evaluation of specific markers of bone resorption] Slabý J, et al. **Cas Lek Cesk** 1997 Jan 22;136(2):57–60 (Eng. Abstr.) **(Cze)**

BIOLOGICAL MONITORING see **ENVIRONMENTAL MONITORING**

BIOLOGICAL OSCILLATORS see **BIOLOGICAL CLOCKS**

BIOLOGICAL PEST CONTROL see **PEST CONTROL, BIOLOGICAL**

BIOLOGICAL PRODUCTS

FDA, reform, and the well-characterized biologic. Henry C. **Anal Chem** 1996 Nov 1;68(21):674A–677A

Strategies for viral removal and inactivation. Burstyn DG, et al. **Dev Biol Stand** 1996;88:73–9 (2 ref.)

The safety of biopharmaceutical products--a personal viewpoint. Finter NB. **Dev Biol Stand** 1996;88:133–7

Minimization of viral contamination in human pharmaceuticals produced in the milk of transgenic goats. Ziomek CA. **Dev Biol Stand** 1996;88:265–8 (5 ref.)

How to limit the spread of Creutzfeldt-Jakob disease. Dormont D. **Infect Control Hosp Epidemiol** 1996 Aug; 17(8):521–8 (71 ref.)

Formulation and delivery of biopharmaceuticals [editorial] Middaugh CR. **J Pharm Sci** 1996 Dec;85(12):1259–60

Makers of blood products settle US HIV suits [news] Barnett AA. **Lancet** 1997 May 17;349(9063):1459

Evaluation of biotechnology products. Tami J, et al. **Pharmacotherapy** 1996 Jul-Aug;16(4):527–36

[What is the status of drugs of biological origin (rules, safety, ethical prerequisites?] Maraninchi D, et al. **Therapie** 1996 Jul-Aug;51(4):431–3 **(Fre)**

[Peritoneum as a dialysis membrane. II. Pathology] Grzybowski A, et al. **Przegl Lek** 1997;54(1):52–61 (114 ref.) (Eng. Abstr.) **(Pol)**

[Outlook for using bacteria of the genus Bacillus for the design of new biopreparations] Sorokulova IB. **Antibiot Khimioter** 1996;41(10):13–5 (18 ref.) (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Haematologic values of Hyla rabbits fed different levels of by-product arising from the propagation of Pleurotus pulmonarius. Rupić V, et al. **Acta Vet Hung** 1996; 44(1):75–84

Effect of orally administered Eubacterium coprostanoligenes ATCC 51222 on plasma cholesterol concentration in laying hens. Li L, et al. **Poult Sci** 1996 Jun;75(6):743–5

ADVERSE EFFECTS

Viral safety of blood derivatives: an overview. Horaud F. **Clin Ther** 1996;18 Suppl B:37–42 (14 ref.)

ANALYSIS

Biological assays: their role in the development and quality control of recombinant biological medicinal products. Mire-Sluis AR, et al. **Biologicals** 1996 Dec;24(4):351–62 (76 ref.)

Comparison of non parallel immunoassay curves resulting from mixtures of competing antigens. Kaiser MS, et al. **Stat Med** 1997 May 30;16(10):1151–66

BIOSYNTHESIS

Hot off the press. Hill RA, et al. **Nat Prod Rep** 1996 Feb; 13(1):iii–v (29 ref.)

CHEMISTRY

Reverse-phase HPLC purification of peptides from natural sources for structural analysis. Shaw C. **Methods Mol Biol** 1997;64:101–7

HISTORY

Viral safety of biological products and the concept of validation. Horaud F. **Dev Biol Stand** 1996;88:19–24 (12 ref.)

ISOLATION & PURIFICATION

Issues in the development of medical products based on human plasma. Josić D, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):253–69 (50 ref.)

PHARMACOLOGY

Biologically active fungal metabolites. Pearce C. **Adv Appl Microbiol** 1997;44:1–80 (200 ref.)

Understanding and controlling the cell cycle with natural products. Hung DT, et al. **Chem Biol** 1996 Aug;3(8):623–39 (148 ref.)

Poxvirus preparation CONPIND initiates production of the major inflammatory mediators IL-1 alpha and TNF-alpha in human whole blood and in blood mononuclear cell cultures. Ahne W, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):139–45

[Effects of administration of Clostridium butyricum to patients receiving long-term tube feeding] Ito I, et al. **Nippon Ronen Igakkai Zasshi** 1997 Apr;34(4):298–304 (Eng. Abstr.) **(Jpn)**

[The nature of hematopoiesis in animals with experimentally depressed immune system: natural and bifidumbacterin-induced recovery] Fedorova IM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):40–3 (Eng. Abstr.) **(Rus)**

[Immunomodulating action of eubiotics] Lopatina TK, et al. **Vestn Ross Akad Med Nauk** 1997;(3):30–4 (Eng. Abstr.) **(Rus)**

STANDARDS

Inactivation of hepatitis A and other enteroviruses during heat treatment (pasteurization). Nissen E, et al. **Biologicals** 1996 Dec;24(4):339–41

Virus validation studies of immunoglobulin preparations. Biesert L. **Clin Exp Rheumatol** 1996 May-Jun;14 Suppl 15:S47–52

FDA regulatory reform. Beatrice M. **Curr Opin Biotechnol** 1997 Jun;8(3):370–8 (22 ref.)

Viral Safety and Evaluation of Viral Clearance from Biopharmaceutical Products. Proceedings of a meeting. Bethesda, Maryland, USA, June 14–16, 1995. **Dev Biol Stand** 1996;88:1–342

Relationship between nature and source of risk and process validation. Berthold W, et al. **Dev Biol Stand** 1996;88:59–71 (1 ref.)

A comparison of methods for the estimation of retroviral burden. Bierley ST, et al. **Dev Biol Stand** 1996;88:163–5

Regulation of veterinary biological products for fish in the United States. Birnbaum NG. **Dev Biol Stand** 1997; 90:335–40

Sourcing pharmaceutical, biological and medical components from livestock in the United States. Detwiler LA. **Dev Biol Stand** 1996;88:243–5

Adventitious agents from animal-derived raw materials--a method of risk assessment. Foster LG. **Dev Biol Stand** 1996; 88:283–90

Multi-use manufacturing facilities. Garfinkle BD. **Dev Biol Stand** 1996;88:131

Issues related to harmonization of testing requirements for viral safety. Hayakawa T. **Dev Biol Stand** 1996;88:15–8

Future development of harmonized guidelines. Hayakawa T. **Dev Biol Stand** 1996;88:331–2

Adventitious agents from animal-derived raw materials and production systems. Hellman KB, et al. **Dev Biol Stand** 1996;88:231–4

Transmissible spongiform encephalopathies (TSE): minimizing the risk of transmission by biological/biopharmaceutical products: an industry perspective. Kozak RW, et al. **Dev Biol Stand** 1996; 88:257–64

Risk assessment and limitations of evaluation studies. Löwer J. **Dev Biol Stand** 1996;88:109

Process evaluation for biopharmaceuticals: what is

appropriate in process evaluation? Lubiniecki AS, et al. **Dev Biol Stand** 1996;88:309–15
Current issues in viral assays and viral clearance evaluation. Lubiniecki AS. **Dev Biol Stand** 1996;88:9–11
Use of a statistical strategy to evaluate sources of variability in viral safety experiments for a recombinant biopharmaceutical. McAllister PR, et al. **Dev Biol Stand** 1996;88:111–21
Process changes and their effect on process evaluation for viral clearance. Marcus-Sekura C. **Dev Biol Stand** 1996; 88:125–30 (10 ref.)
Transmissible encephalopathies and biopharmaceutical production. Robinson MM. **Dev Biol Stand** 1996;88:237–41 (15 ref.)
Analysis of risk to biomedical products developed from animal sources (with special emphasis on the spongiform encephalopathy agents, scrapie and BSE). Rohwer RG. **Dev Biol Stand** 1996;88:247–56 (24 ref.)
Future directions for ensuring viral safety of biopharmaceuticals. Trent DW. **Dev Biol Stand** 1996; 88:333–5
Process scale considerations in evaluation studies and scale-up. Walter JK, et al. **Dev Biol Stand** 1996;88:99–108 (6 ref.)
Licensing of protein products from the milk of transgenic animals. Validation for pathogen removal--a strategy. Wright G, et al. **Dev Biol Stand** 1996;88:269–76
Proposed approach to regulation of cellular and tissue-based products. The Food and Drug Administration. **J Hematother** 1997 Jun;6(3):195–212
Of airships, space shuttles, and biological products. Beale J. **J R Soc Med** 1997 Mar;90(3):166–9
From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Feb 5;277(5):370
The Unites States Department of Agriculture Regulation of Veterinary Biological Products. The use of prelicensing evaluation and postlicensing monitoring to achieve regulatory compliance. Hill RE Jr, et al. **Qual Assur** 1995 Dec;4(4):323–8
Quantities and units for biological reference materials used with in vitro diagnostic measuring systems for antibodies. Dybkaer R. **Scand J Clin Lab Invest** 1996 Aug;56(5):385–91
International scientific conference on viral safety and evaluation of viral clearance from biopharmaceutical products.14–16 June 1995, Bethesda, MD, USA. Sanhueza S. **Vaccine** 1996 Feb;14(3):244–6
[Vaccination, immunobiological agents safety and citizen's rights (editorial)] da Silva LJ. **Rev Saude Publica** 1996 Aug; 30(4):297–8 **(Por)**

THERAPEUTIC USE

Biotechnological agents for the immunotherapy of multiple sclerosis. Principles, problems and perspectives. Hohlfeld R. **Brain** 1997 May;120 (Pt 5):865–916 (372 ref.)
Biologic agents in the treatment of inflammatory rheumatic diseases. Kalden JR, et al. **Curr Opin Rheumatol** 1997 May; 9(3):206–12 (40 ref.)
Biologic agents in the treatment of inflammatory rheumatic diseases. Kalden JR, et al. **Curr Opin Rheumatol** 1996 May; 8(3):195–200 (29 ref.)
"Our study is man" (and woman) [editorial] Ledley FD. **Hum Gene Ther** 1996 Jun 20;7(10):1193–5
Novel therapies for treatment of rheumatoid arthritis. Piascik P. **J Am Pharm Assoc (Wash)** 1997 Jan-Feb;NS37(1):14–6
FDA launches "new use initiative" [news] **Nat Biotechnol** 1997 May;15(5):399
Biologically active peptides in acute renal failure: recent clinical trials [editorial] Hirschberg R. **Nephrol Dial Transplant** 1997 Aug;12(8):1563–6
[Plasma-derived products: therapeutic biological products] Folléa G, et al. **Transfus Clin Biol** 1997;4(2):227–40 (40 ref.) (Eng. Abstr.) **(Fre)**
[Therapeutic products of human origin (editorial)] Rouger P, et al. **Transfus Clin Biol** 1996;3(2):87–8 **(Fre)**
[The efficacy of the eubiotic bifacide when used in the combined antibacterial therapy of newborn infants with infectious-inflammatory diseases] Kushnareva MV, et al. **Antibiot Khimioter** 1996;41(11):28–32 (Eng. Abstr.) **(Rus)**
[The therapeutic efficacy of probiotics for the correction of microfloral imbalance in periodontitis] Morozova LV, et al. **Stomatologiia (Mosk)** 1996;Spec No:68–9 **(Rus)**
[The development and clinical evaluation of the probiotic Bifidumbacterin forte] Grigor'ev AV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):92–6 (Eng. Abstr.) **(Rus)**

BIOLOGICAL PSYCHIATRY

6th World Congress of Biological Psychiatry. Nice, France, June 22–27, 1997. Abstracts. **Biol Psychiatry** 1997 Jul 1;42(1 Suppl):1S–316S
Society of Biological Psychiatry 51st annual convention and scientific program, New York, May 1–5, 1996. Abstracts. **Biol Psychiatry** 1996 Apr 1;39(7):467–677
Society of Biological Psychiatry 52nd annual Convention and scientific program. San Diego, California, May 14–18, 1997. Abstracts. **Biol Psychiatry** 1997 Apr 1;41(7 Suppl):1S–128S
Biological psychiatry in perspective. Gelder MG. **Br Med Bull** 1996 Jul;52(3):401–7
Biological psychiatry Concluding summary. Johnstone EC. **Br Med Bull** 1996 Jul;52(3):656–62
Schizophrenic patients fare badly in the company of scientists [editorial] Clarke L. **J Adv Nurs** 1997 Mar;25(3):429–30
Humans, not biological processes. Dawson PJ. **J Psychosoc Nurs Ment Health Serv** 1996 Dec;34(12):31–3
1996 molecular psychiatry conference. Nuruberger JI. **Psychiatr Genet** 1996 Summer;6(2):35–7
[The psychiatrist's point of view on the treatment of morbid obesity by gastroplasty] Terra JL. **Ann Chir** 1997; 51(2):177–82 (Eng. Abstr.) **(Fre)**
[4th Three-Country-Symposium of Biologic Psychiatry. Wurzburg, 10–12 October 1996. Abstracts] **Fortschr Neurol Psychiatr** 1996 Oct;64 Suppl 2:37–203 **(Ger)**
[Relationship between psychopathology and biological psychiatry--essential meaning of psychiatry] Suwa N. **Seishin Shinkeigaku Zasshi** 1996;98(6):413–7 **(Jpn)**

HISTORY

Cyberconference helps archivists manage trove of scientific papers [news] Lamberg L. **JAMA** 1996 Dec 25; 276(24):1935–7
[Birth and evolution of the biological concept of bisexuality] Aron C. **Clio Med** 1995;33:131–50 **(Fre)**

TRENDS

The ten commandments of psychiatric research. Detre T. **Biol Psychiatry** 1996 Oct 1;40(7):675–81
Swings of the pendulum [letter] Kubacki A. **Can J Psychiatry** 1996 Oct;41(8):538–9
The impact of biological psychiatry on psychiatric nursing. Dawson PJ. **J Psychosoc Nurs Ment Health Serv** 1996 Aug; 34(8):28–33; discussion 33–35 (15 ref.)
[Possibilities and goals of natural science psychiatry] Hinterhuber H, et al. **Ther Umsch** 1996 Mar;53(3):192–7 (Eng. Abstr.) **(Ger)**
[From the "limited" neuropsychology to cognitive and dynamic neuropsychology with the reminding of behavior neurology and biological psychiatry and allusion to behaviorism] Barraquer-Bordas L. **Rev Neurol** 1996 Jan; 24(125):101–3 **(Spa)**

BIOLOGICAL PUMP see **BIOLOGICAL TRANSPORT, ACTIVE**

BIOLOGICAL RESPONSE MODIFIERS

see related
ANTINEOPLASTIC AGENTS
IMMUNOSUPPRESSIVE AGENTS

New Trends in Immunopharmacology 1995. Proceedings of a meeting. Tokyo, Japan, July 15, 1995. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S161–288

ADMINISTRATION & DOSAGE

Comparison of the long-term effects of treatment with oral and parenteral interferon alpha in chronic viral hepatitis patients. Zielińska W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):359–66
Rat liver pit cells following administration of the glycopeptide preparation (Polyerga). Gulubova MV, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):698–704
Adoptive immunotherapy of poorly immunogenic tumors with in vitro sensitized cells generated by intratumoral administration of biological response modifiers. Mukai S, et al. **Int J Immunopharmacol** 1995 Dec;17(12):963–71
[Regional adoptive immunotherapy using activated lymphocytes] Ebina T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1549–52 (Eng. Abstr.) **(Jpn)**
[Preoperative intra tumor biological response modifier injection therapy for patients with stomach neoplasms] Tanaka N, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):626 **(Jpn)**

ADVERSE EFFECTS

A case of interstitial pneumonitis associated with natural alpha-interferon therapy for myelofibrosis. Nakamura F, et al. **Acta Haematol** 1997;97(4):222–4
Cytophilic immunoglobulin G binding on neutrophils from a child with malignant osteopetrosis who developed fatal acute respiratory distress mimicking transfusion-related acute lung injury. Madyastha PR, et al. **Am J Hematol** 1996 Nov;53(3):196–200
Recurrence of sarcoidosis following interferon alpha therapy for chronic hepatitis C. Nakajima M, et al. **Intern Med** 1996 May;35(5):376–9
Second malignancy in hairy cell leukaemia: no evidence of increased incidence after treatment with interferon alpha. Pawson R, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):103–6 (13 ref.)
[Hypertriglyceridemia following treatment with interferon alpha in essential thrombocythemia] De Salvo L, et al. **Invest Clin** 1996 Sep;37(3):177–81 (Eng. Abstr.) **(Spa)**

ANALYSIS

Enzymatic assays of fructose-1-phosphate and fructose-1,6-bisphosphate in the picomole range. Niculescu L, et al. **Anal Biochem** 1996 Mar 15;235(2):243–44
(1-->3)-beta-D-glucan determination in rat organs with limulus coagulation factor G. Nakao A, et al. **Res Exp Med (Berl)** 1997;196(6):339–43

CHEMISTRY

Characterisation of acidic heteroglycans from Tremella fuciformis Berk with cytokine stimulating activity. Gao Q, et al. **Carbohydr Res** 1996 Jul 19;288:135–42
Novel biological response modifiers: phthalimides with tumor necrosis factor-alpha production-regulating activity. Miyachi H, et al. **J Med Chem** 1997 Aug 29;40(18):2858–65

IMMUNOLOGY

Depressed splenic function after hemorrhage results from gastrointestinal tract stimulation of hepatic-mediator release. Correction with portacaval shunt. Ayala A, et al. **Arch Surg** 1996 Nov;131(11):1209–14; discussion 1215
Study of the immunostimulating effect of glycophosphopeptical (AM3) in mice. Gallego Olivella J, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):87–9
The in vitro effect of Pidotimod on some immune functions in cancer patients. Di Renzo M, et al. **Immunopharmacol Immunotoxicol** 1997 Feb;19(1):37–51
Adoptive immunotherapy of poorly immunogenic tumors with in vitro sensitized cells generated by intratumoral administration of biological response modifiers. Mukai S, et al. **Int J Immunopharmacol** 1995 Dec;17(12):963–71

PHARMACOLOGY

In vitro inactivation of herpes simplex virus by a biological response modifier, PSK. Monma Y, et al. **Antiviral Res** 1997 Aug;35(3):131–8
PSK protects macrophages from lipoperoxide accumulation and foam cell formation caused by oxidatively modified low-density lipoprotein. Yuan C, et al. **Atherosclerosis** 1996 Aug 2;124(2):171–81
Rationale and clinical results of using leucocyte-derived immunosupportive therapies in HIV disease. Gottlieb AA, et al. **Biotherapy** 1996;9(1–3):27–31
The neutrophil as an information transmitter in tumor inhibition by a streptococcal biological response modifier, OK-432. Sato T, et al. **Cancer Immunol Immunother** 1996 Oct;43(2):77–86
Effect of interferon-alpha on immunoglobulin production by peripheral blood mononuclear cells in multiple myeloma. Säily M, et al. **Eur J Haematol** 1996 Aug;57(2):171–7
The in vitro effect of Pidotimod on some immune functions in cancer patients. Di Renzo M, et al. **Immunopharmacol Immunotoxicol** 1997 Feb;19(1):37–51
Effect of hot water extract of Chlorella vulgaris on cytokine expression patterns in mice with murine acquired immunodeficiency syndrome after infection with Listeria monocytogenes. Hasegawa T, et al. **Immunopharmacology** 1997 Jan;35(3):273–82
Oral administration of PSK can improve the impaired anti-tumor CD4+ T-cell response in gut-associated lymphoid tissue (GALT) of specific-pathogen-free mice. Harada M, et al. **Int J Cancer** 1997 Jan 27;70(3):362–72
Prediction of growth sensitivity of acute promyelocytic leukemia cells to granulocyte colony-stimulating factor using 7AAD/PY during administration of all-trans retinoic acid. Toba K, et al. **Int J Hematol** 1997 Aug;66(2):203–12
Antiviral activity of biological response modifiers in a murine model of AIDS. Requirement for augmentation of natural killer cell activity and synergy with oral AZT. Black PL, et al. **Int J Immunopharmacol** 1996 Nov;18(11):633–50
Thymus-dependent effects of a traditional Chinese medicine, ren-shen-yang-rong-tang (Japanese name; Ninjin-youei-to), in autoimmune MRI/MP-lpr/lpr mice. Nakai S, et al. **Int J Immunopharmacol** 1996 Apr; 18(4):271–9
Influence of biological response modifiers: measurement of tumor blood flow and temperature. Li J, et al. **J Immunother** 1994 Oct;16(3):175–80
Novel biological response modifiers: phthalimides with tumor necrosis factor-alpha production-regulating activity. Miyachi H, et al. **J Med Chem** 1997 Aug 29;40(18):2858–65
Antitumor activity of combined blockade of epidermal growth factor receptor and protein kinase A. Ciardiello F, et al. **J Natl Cancer Inst** 1996 Dec 4;88(23):1770–6
Influence of interferon-alpha on cytokine expression by the bone marrow microenvironment--impact on treatment of myeloproliferative disorders. Peschel C, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:129–34 (77 ref.)
IRI-514, a synthetic peptide analogue of thymopentin, reduces the behavioral response to social stress in rats. Menzaghi F, et al. **Physiol Behav** 1996 Aug;60(2):397–401
The activation of murine macrophages and natural killer cells by the partially thiolated double stranded RNA poly(I)-mercapto poly(C). Cavanaugh PF Jr, et al. **Res Commun Mol Pathol Pharmacol** 1996 Feb;91(2):131–47
Protection from amphotericin B-induced lipid peroxidation in rats by fructose-1,6-diphosphate. Rao MR, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):217–20
Biological effects of the immunomodulator beta 1-3D polyglucose are strongly potentiated by conjugation to biodegradable microbeads. Seljelid R, et al. **Scand J Immunol** 1997 Jun;45(6):683–7
Effect of the proteoglycan (PSK) on lymphocyte subsets in normal rats. Nakasaki H, et al. **Tokai J Exp Clin Med** 1995 May;20(1):37–44
[The morphological characteristics of the pit cells in the rat liver after the use of the glycopeptide preparation Polyerga] Gulubova M, et al. **Eksp Med Morfol** 1994;32(3–4):40–8 (Eng. Abstr.) **(Bul)**

BIOLOGICAL RESPONSE MODIFIERS

[Regulatory effect of lingqi anshen liquor on erythrocyte immune function and antioxidation in immunosuppressed mice] **Tang B**, et al.
Chung Kuo Chung Hsi I Chieh Ho Tsa Chih 1996 Mar; 16(3):167–9 (Eng. Abstr.) **(Chi)**

[Countermeasures for hypofunction of gut associated lymphoid tissue during TPN in rats] Nakasaki H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):806–12 (Eng. Abstr.) **(Jpn)**

[Novel biological response modifiers: phthalimides with TNF-alpha production regulating activity] Miyachi H, et al. **Yakugaku Zasshi** 1997 Feb;117(2):91–107 (49 ref.) (Eng. Abstr.) **(Jpn)**

[Blast differentiation in a patient with chronic myeloid leukemia in blast crisis using retinoic acid] Burgaleta C, et al. **Sangre (Barc)** 1995 Dec;40(6):509–12 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Influence of hexadecylphosphocholine (miltefosine) on cytokine synthesis and biological responses. Klenner T, et al. **Adv Exp Med Biol** 1996;416:181–7

alpha-fetoprotein as a biologic response modifier: relevance to domain and subdomain structure. Mizejewski GJ. **Proc Soc Exp Biol Med** 1997 Sep;215(4):333–62 (256 ref.)

STANDARDS

WHO Expert Committee on Biological Standardization. Highlights of the 46th meeting, October 1996.
Wkly Epidemiol Rec 1997 May 16;72(20):141–5 **(Eng, Fre)**

THERAPEUTIC USE

Southern technique and cytogenetics are complementary and must be used together in the evaluation of Ph1, M-BCR positive chronic myeloid leukemia (CML) patients treated with alpha interferon (IFN-alpha). Steegmann JL, et al. **Am J Hematol** 1996 Nov;53(3):169–74

Can the CD4+/CD8+ ratio predict the outcome of interferon-alpha therapy for renal cell carcinoma? Hernberg M, et al. **Ann Oncol** 1997 Jan;8(1):71–7

Interleukin-4 in the treatment of AIDS-related Kaposi's sarcoma. Tulpule A, et al. **Ann Oncol** 1997 Jan;8(1):79–83

New treatments for chronic viral hepatitis B and C. Dusheiko GM. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):299–333 (154 ref.)

Interleukin-10 inhibits activation of coagulation and fibrinolysis during human endotoxemia. Pajkrt D, et al. **Blood** 1997 Apr 15;89(8):2701–5

Effects of recombinant soluble type I interleukin-1 receptor on human inflammatory responses to endotoxin. Preas HL 2nd, et al. **Blood** 1996 Oct 1;88(7):2465–72

A multicenter controlled, randomized, open trial of interferon alpha2b treatment of anti-human immunodeficiency virus-negative hemophilic patients with chronic hepatitis C. Hepatitis Study Group of the Association of Italian Hemophilia Centers. Rumi MG, et al. **Blood** 1997 May 15; 89(10):3529–33

Lymphoblastoid human interferon and low dose IL-2 combined with donor lymphocyte infusion as therapy of a third relapse of CML—a case report. Lönnqvist B, et al. **Bone Marrow Transplant** 1996 Jul;18(1):241–2

Interaction of chemotherapy and biological response modifiers in the treatment of melanoma. Anderson CM, et al. **Cancer Treat Res** 1996;87:357–80 (126 ref.)

Interleukin-11 (IL-11) and its receptor: biology and potential clinical applications in thrombocytopenic states. Yang YC. **Cancer Treat Res** 1995;80:321–40

The treatment of metastatic melanoma with chemotherapy and biologics [see comments] Atkins MB.
Curr Opin Oncol 1997 Mar;9(2):205–13 (71 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):175–7.

Former poison gas workers and cancer: incidence and inhibition of tumor formation by treatment with biological response modifier N-CWS. Yamakido M, et al.
Environ Health Perspect 1996 May;104 Suppl 3:485–8

Maintenance therapy with interferon-alpha (IFN-alpha) versus IFN-alpha plus chemotherapy in multiple myeloma (MM). The Greek Myeloma Study Group. Zervas K, et al. **Eur J Haematol** 1996 Aug;57(2):142–8

Response to sequential treatment with lymphoblastoid interferon-alpha in patients with Ph+ chronic myeloid leukemia unresponsive to recombinant interferon-alpha (rIFN alpha 2a) and neutralizing-rIFN alpha 2a antibodies negative. Russo D, et al. **Haematologica** 1997 May-Jun; 82(3):348–50

Effects of low molecular weight glycoproteins in chronic hepatitis B. Vassilev M, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):882–6

Variations of serum IgG subclass levels in hepatitis C virus infection during interferon-alpha therapy. Musset L, et al. **Immunol Lett** 1997 Jan;55(1):41–5

Naturin: a potent bio-immunomodifier in experimental studies and clinical trials. Shen RN, et al. **In Vivo** 1996 Mar-Apr;10(2):201–9

Adjuvant therapy of pancreatic cancer using monoclonal antibodies and immune response modifiers. Friess H, et al. **Int J Pancreatol** 1997 Feb;21(1):43–52 (66 ref.)

Rapid destruction of murine and human melanomas by local injection of absolute ethanol: augmentation of the anti-proliferative effects with a combination of biological response modifiers. Nakayama J, et al. **J Dermatol** 1996 Mar;23(3):156–64

Phase II trial of recombinant interleukin-1beta in patients with metastatic renal cell carcinoma. Redman BG, et al. **J Immunother** 1994 Oct;16(3):211–5

Monoclonal antibody to treat lymphoma [news] Marwick C. **JAMA** 1997 Aug 27;278(8):616, 618

Biological response modifiers may yield a new class of drugs to treat arthritis [news] Skolnick AA. **JAMA** 1997 Jan 22-29;277(4):276–8

Interferon alpha 2b as maintenance therapy in low grade malignant lymphoma improves duration of remission and survival. Aviles A, et al. **Leuk Lymphoma** 1996 Feb; 20(5–6):495–9

Serum levels of TNF, IL-6 and sCD23 correlate with changes in lymphocyte count in patients with B-cell chronic lymphocytic leukaemia receiving interferon-alpha therapy. Jewell AP, et al. **Leuk Lymphoma** 1997 Jan; 24(3–4):327–33

Interferon-alpha in the treatment of essential thrombocythemia. Lengfelder E, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:135–42

Limited activity of mini-dose interferon alpha-2a in the treatment of myelodysplastic syndrome. Maerevoet M, et al. **Leuk Lymphoma** 1996 May;21(5–6):519–20

Interleukin-2 for the treatment of advanced acute myelogenous leukemia patients with limited disease: updated experience with 20 cases. Meloni G, et al.
Leuk Lymphoma 1996 May;21(5–6):429–35

Complete remission induction with combined VBMCP chemotherapy and interferon (rIFN alpha 2b) in patients with multiple myeloma. Oken MM, et al.
Leuk Lymphoma 1996 Feb;20(5–6):447–52

Comparison of interferon tolerance after autologous bone marrow or peripheral blood stem cell transplants for myeloma patients who have responded to induction therapy. Powles R, et al. **Leuk Lymphoma** 1996 May; 21(5–6):421–7

Interferon treatment in polycythaemia vera. Reilly JT, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:143–8 (64 ref.)

High-dose cytarabine and recombinant human granulocyte colony-stimulating factor for the treatment of resistant acute myelogenous leukemia. Schiller G, et al.
Leuk Lymphoma 1996 Feb;20(5–6):427–34

Potential use of recombinant human interleukin-6 in clinical oncology. Veldhuis GJ, et al. **Leuk Lymphoma** 1996 Feb; 20(5–6):373–9 (61 ref.)

Biologic response modifiers in acute lymphoblastic leukemia. Gribben JG, et al. **Leukemia** 1997 May;11 Suppl 4:S31–3 (16 ref.)

Combination therapy with BRMs in cancer and infectious diseases. Garaci E, et al. **Mech Ageing Dev** 1997 Jun; 96(1–3):103–16 (57 ref.)

Immunotherapy of malignant melanoma. Leong SP.
Surg Clin North Am 1996 Dec;76(6):1355–81 (165 ref.)

IL-15 administration following syngeneic bone marrow transplantation prolongs survival of lymphoma bearing mice. Katsanis E, et al. **Transplantation** 1996 Sep 27; 62(6):872–5

Biologic response modifiers in the management of superficial bladder cancer. Serels S, et al. **World J Urol** 1997; 15(2):96–102 (89 ref.)

[On traditional Chinese medicine-mediated biotherapy of leukemia] Li D.
Chung Kuo Chung Hsi I Chieh Ho Tsa Chih 1996 Jan; 16(1):47–9 **(Chi)**

[Lung cancer: progress in diagnosis and treatment. IV. Related topics: 2. Macrolides as biological response modifiers for the treatment of lung cancer] Mikasa K, et al. **Nippon Naika Gakkai Zasshi** 1997 Jan 10;86(1):100–7 **(Jpn)**

[Elimination of minimal residual leukemic cells by biological response modifiers] Yamamoto K. **Rinsho Ketsueki** 1996 Aug;37(8):666–70 (10 ref.) **(Jpn)**

[Effect of various modern drugs on the interferon system and phagocytosis in patients with lichen ruber planus] Kubanova AA, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):235–7 **(Rus)**

[Current trends in the biological therapy of malignant tumors (editorial)] Khanson KP, et al. **Vopr Onkol** 1996;42(5):7–12 **(Rus)**

[Infections and granulocyte colony-stimulating factor (G-CSF) (editorial)] Solovera JJ.
Enferm Infecc Microbiol Clin 1996 Aug-Sep;14(7):409–10 **(Spa)**

[Complete cytogenetic remission of chronic myeloid leukemia with low-dose interferon alfa-2b and monthly high-dose busulfan] Armenta D, et al. **Sangre (Barc)** 1996 Dec;41(6):465–7 (Eng. Abstr.) **(Spa)**

BIOLOGICAL SCIENCES

Ethics issues in academic-industry relationships in the life sciences: the continuing debate [see comments] Blumenthal D. **Acad Med** 1996 Dec;71(12):1291–6. Comment in: Acad Med 1996 Dec;71(12):1287–90.

Computer science and biology--the German Conference on Bioinformatics (GCB'96). Hofestaedt R. **Biosystems** 1997; 43(1):69–71

Withholding research results in academic life science. Evidence from a national survey of faculty. Blumenthal D, et al. **JAMA** 1997 Apr 16;277(15):1224–8

The scientific basis of medicine. Gilchrist JM.
Med Health R I 1996 Aug;79(8):303–5

Japan's life sciences take integrated road [news] Triendl R, et al. **Nature** 1997 Jul 17;388(6639):216

Commercial backing 'could impair academic influence' [news] Wadman M. **Nature** 1996 Dec 12;384(6609):501

Tough competition in Europe. Ward M. **Nature** 1996 Oct 24;383(6602):742–4

Life Sciences 1995. Proceedings and abstracts of an international meeting. Gzod Martuljek, Slovenia, 23–28 September 1995. **Pflugers Arch** 1996;431(6 Suppl 2):R159–318

Life-sciences R&D, national prosperity, and industrial competitiveness. Fears R, et al. **Science** 1997 May 2; 276(5313):759–60

NASA slices biology program on station [news] Lawler A. **Science** 1996 Oct 25;274(5287):495

Publishing sensitive data: who calls the shots? Secretiveness found widespread in life sciences [news] Marshall E. **Science** 1997 Apr 25;276(5312):525

Drug firms back move to link databases [news] Williams N. **Science** 1997 Aug 15;277(5328):902

The image of sociobiology [letter] Wilson TP. **Science** 1996 Nov 1;274(5288):703–4

[Internationalization of the English-language journals in Japan in life sciences] Yamazaki S, et al.
Nippon Seirigaku Zasshi 1997;59(2):98–104 (Eng. Abstr.) **(Jpn)**

[Computer technology for bioimaging] Minamitani H.
Tanpakushitsu Kakusan Koso 1997 May;42(7 Suppl):932–5 (5 ref.) **(Jpn)**

ECONOMICS

Here come tomorrow's millionaires. Dickson D. **Nature** 1996 Oct 24;383(6602):743

EDUCATION

On the crisis in biomedical education: is there an overproduction of biomedical PhDs? Domer JE, et al.
Acad Med 1996 Aug;71(8):876–85

Enlivening basic-science learning with current journal articles. Beresford WA. **Clin Anat** 1996;9(4):273–6 (9 ref.)

Analysis of Akinsanya's model of bionursing. Casey G.
J Adv Nurs 1996 Jun;23(6):1065–70 (29 ref.)

The biological sciences in nursing: an empirical paper reporting on the applications of physiology to nursing care. Jordan S, et al. **J Adv Nurs** 1997 Jul;26(1):169–79

Attitudes towards the relevance of biological, behavioural and social sciences in nursing education. Thornton T.
J Adv Nurs 1997 Jul;26(1):180–6

Biological sciences in Project 2000: an exploration of status. Trnobranski PH. **J Adv Nurs** 1996 Jun;23(6):1071–9

What should biomedical sciences education in dental schools achieve? Lantz MS, et al. **J Dent Educ** 1997 May; 61(5):426–33

Dental and life science students: a comparison of approaches to study and course perceptions. Davis JE, et al.
Med Educ 1996 Nov;30(6):453–8

Ban has mixed impact on Texas, California grad schools [news] Barinaga M. **Science** 1997 Aug 1;277(5326):633–4

Biology department splits [letter; comment] Walter LR.
Science 1997 May 16;276(5315):1014–5. Comment on: Science 1997 Mar 14;275(5306):1556–8.

HISTORY

[Professor David Shugar awarded a honorary doctorate from the University of Warsaw] Konarska L, et al.
Postepy Biochem 1997;43(1):2–4 **(Pol)**

[Lost paradigms, Thomas S. Kuhn] Chica C.
Microbiologia 1996 Dec;12(4):641–6 **(Spa)**

METHODS

Biologists get up close and personal with live cells [news] Gura T. **Science** 1997 Jun 27;276(5321):1988–90

ORGANIZATION & ADMINISTRATION

Transatlantic merger creates potent hybrid in bioscience research [news] Ward M. **Nature** 1996 Nov 28; 384(6607):299

Biology departments restructure [news] [see comments] Roush W. **Science** 1997 Mar 14;275(5306):1556–8. Comment in: Science 1997 May 16;276(5315):1014–5.

BIOLOGICAL SPECIMEN BANKS

The Allergen Bank: a source of extra contact allergens for the dermatologist in practice. Andersen KE, et al.
Acta Derm Venereol 1996 Mar;76(2):136–40

Family cell lines available for research--an endangered resource? [letter] Lernmark A, et al. **Am J Hum Genet** 1997 Sep;61(3):778–9

Proceedings of the 2nd International Symposium and Workshop on Biological Environmental Specimen Banking. Stockholm, Sweden, May 20–23, 1996.
Chemosphere 1997 May;34(9–10):1867–2250

Stability of cytochrome P4501A-associated enzyme activity in cryogenically stored teleost liver samples. Anulacion BF, et al. **Chemosphere** 1997 May;34(9–10):2029–39

Concentrations of chlorinated hydrocarbons and trace elements in marine mammal tissues archived in the U.S.

National Biomonitoring Specimen Bank. Becker PR, et al. **Chemosphere** 1997 May;34(9–10):2067–98 (38 ref.)
Standard species from Poland for environmental specimen bank. Golimowski J, et al. **Chemosphere** 1997 May; 34(9–10):1989–95 (12 ref.)
Biological and environmental specimen banking at the Centers for Disease Control and Prevention. Gunter EW. **Chemosphere** 1997 May;34(9–10):1945–53 (11 ref.)
The Great Lakes Fisheries Specimen Bank: a Canadian perspective in environmental specimen banking. Kiriluk RM, et al. **Chemosphere** 1997 May;34(9–10):1921–32
Organochlorine contaminants in blubber of four seal species: integrating biomonitoring and specimen banking. Krahn MM, et al. **Chemosphere** 1997 May;34(9–10):2109–21
Environmental specimen banking of nationwide biomonitoring samples in Finland. Kubin E, et al. **Chemosphere** 1997 May;34(9–10):1939–44 (10 ref.)
Environmental specimen banking in the Czech Republic: a pilot study. Kučera J, et al. **Chemosphere** 1997 May; 34(9–10):1975–87
Levels of chlorinated hydrocarbons (CHC) in breams (Abramis brama) from the river Elbe (a contribution to the Federal Environmental Specimen Bank). Marth P, et al. **Chemosphere** 1997 May;34(9–10):2183–92
Specimen banking at National Institute for Environmental Studies, Japan. Morita M, et al. **Chemosphere** 1997 May; 34(9–10):1907–19
The Swedish Environmental Specimen Bank--application in trend monitoring of mercury and some organohalogenated compounds. Odsjö T, et al. **Chemosphere** 1997 May; 34(9–10):2059–66 (28 ref.)
Specimen banking--a planning in advance. Olsson M, et al. **Chemosphere** 1997 May;34(9–10):1961–74 (23 ref.)
Environmental monitoring and banking of marine pollutants by using common mussels. Ostapczuk P, et al. **Chemosphere** 1997 May;34(9–10):2143–51
PCDD/F and other chlorinated hydrocarbons in matrices of the Federal Environmental Specimen Bank. Oxynos SK, et al. **Chemosphere** 1997 May;34(9–10):2153–8
Concepts of marine specimen banking. Rossbach M, et al. **Chemosphere** 1997 May;34(9–10):1997–2010 (39 ref.)
Eel-pout (Zoarces viviparus L.) as a marine bioindicator. Schladot JD, et al. **Chemosphere** 1997 May; 34(9–10):2133–42
The lessons of Bhopal [toxic] MIC gas disaster scope for expanding global biomonitoring and environmental specimen banking. Sriramachari S, et al. **Chemosphere** 1997 May;34(9–10):2237–50
The relationship between the Canadian Wildlife Service Specimen Bank and the Wildlife Toxicology Program: the effect on specimen collection. Wakeford BJ, et al. **Chemosphere** 1997 May;34(9–10):1933–8
Cell line banks and their role in cancer research. Hay RJ, et al. **J Cell Biochem Suppl** 1996;24:107–30 (29 ref.)
Medical and scientific uses of human tissue [editorial] O'Neill O. **J Med Ethics** 1996 Feb;22(1):5–7
Genomic yeast DNA clone banks. Construction and gene isolation. Bignell GR, et al. **Methods Mol Biol** 1996; 53:155–87 (21 ref.)

ORGANIZATION & ADMINISTRATION

NCI–Navy Medical Oncology Branch cell line data base. Phelps RM, et al. **J Cell Biochem Suppl** 1996;24:32–91
[The creation of genetic cryobanks and the use of the methods of developmental biology as a means for preserving rare animal species. II. The obtaining and cryopreservation of the embryos of wild mammals] Rott NN. **Ontogenez** 1996 Jul–Aug;27(4):245–55 (84 ref.) (Eng. Abstr.) **(Rus)**

STANDARDS

Standardization in animal cell technology. Stacey GN. **Folia Microbiol (Praha)** 1997;42(2):113–6 (16 ref.)

TRENDS

Specimen banking of marine organisms in the United States: current status and long-term prospective. Becker PR, et al. **Chemosphere** 1997 May;34(9–10):1889–906 (33 ref.)
Environmental specimen banking in Germany--present state and further challenges. Emons H, et al. **Chemosphere** 1997 May;34(9–10):1875–88 (17 ref.)
Wet deposition in Germany: long-term trends and the contribution of heavy metals. Grömping AH, et al. **Chemosphere** 1997 May;34(9–10):2227–36
Securing biotechnological resources--the place of the resource centre. Doyle A, et al. **Dis Markers** 1997 Apr; 13(2):71–6 (0 ref.)

BIOLOGICAL SUBSTANCE BANKS see **BIOLOGICAL SPECIMEN BANKS**

BIOLOGICAL TRANSPORT

see related
CELL MEMBRANE PERMEABILITY
DIFFUSION
MATERNAL-FETAL EXCHANGE
MUCOCILIARY CLEARANCE
PERMEASES
PROTON-MOTIVE FORCE

Analysis of mass transport-limited binding kinetics in evanescent wave biosensors. Schuck P, et al. **Anal Biochem** 1996 Sep 5;240(2):262–72
Vesicular transport in mammalian cells: techniques for in vivo regulation and in vitro reconstitution. Proceedings of a workshop. Mendoza, Argentina, April 15–25, 1996. **Biocell** 1996 Dec;20(3):275–365
Calcium- and zinc-binding proteins in intracellular transport. Aballay A, et al. **Biocell** 1996 Dec;20(3):339–42 (28 ref.)
A glutamate/glutamine/aspartate/asparagine transport operon in Rhodobacter capsulatus. Zheng S, et al. **Mol Microbiol** 1996 Jun;20(5):1001–11
Protein transport. A fusion of new ideas [news; comment] Bock JB, et al. **Nature** 1997 May 8;387(6629):133–5. Comment on: Nature 1997 May 8;387(6629):199–202.

PHYSIOLOGY

Control of cytosolic pH in two-cell mouse embryos: roles of H(+)-lactate cotransport and Na+/H+ exchange. Gibb CA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C404–19
Characterization of lipid membrane dynamics by simulation: 3. Probing molecular transport across the phospholipid bilayer. Jin B, et al. **Pharm Res** 1996 Dec;13(12):1786–94

BIOLOGICAL TRANSPORT, ACTIVE

see related
ION PUMPS

DRUG EFFECTS

Modulation of L-type calcium current by internal potassium in guinea pig ventricular myocytes. Linz KW, et al. **Cardiovasc Res** 1997 Jan;33(1):110–22

PHYSIOLOGY

Cell volume regulation in Claviceps fusiformis. An animal-type Na,K-ATPase operating in a fungus? Rauferová L, et al. **Biochem Mol Biol Int** 1997 Jan; 41(1):153–60
The effect of membrane cholesterol content on ion transport processes in plasma membranes. Bastiaanse EM, et al. **Cardiovasc Res** 1997 Feb;33(2):272–83 (82 ref.)
Peculiarities of the cellular ion-transport function of the gastrointestinal tract in hypertensive rats. Smirnov Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S218–9
Perinatal treatment of rats with opiates affects the development of the blood-brain barrier transport system PTS-1. Banks WA, et al. **Neurotoxicol Teratol** 1996 Nov–Dec;18(6):711–5
Model systems for intestinal lymphatic transport studies. Porter CJ, et al. **Pharm Biotechnol** 1996;8:85–102 (22 ref.)
Drug transport across Xenopus alveolar epithelium in vitro. Wall D, et al. **Pharm Biotechnol** 1996;8:347–59 (25 ref.)

BIOLOGICAL WARFARE

The economic impact of a bioterrorist attack: are prevention and postattack intervention programs justifiable? Kaufmann AF, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):83–94 (22 ref.)
Biologic terrorism--responding to the threat. Russell PK. **Emerg Infect Dis** 1997 Apr–Jun;3(2):203–4
Preparation for emergency relief after biological warfare. Steffen R, et al. **J Infect** 1997 Mar;34(2):127–32
Vaccines against bacterial zoonoses [editorial] Corbel MJ. **J Med Microbiol** 1997 Apr;46(4):267–9
Why should we be concerned about biological warfare? Danzig R, et al. **JAMA** 1997 Aug 6;278(5):431–2
Clinical recognition and management of patients exposed to biological warfare agents. Franz DR, et al. **JAMA** 1997 Aug 6;278(5):399–411 (146 ref.)
The threat of biological weapons. Prophylaxis and mitigation of psychological and social consequences. Holloway HC, et al. **JAMA** 1997 Aug 6;278(5):425–7
Biological weapons control. Prospects and implications for the future. Kadlec RP, et al. **JAMA** 1997 Aug 6; 278(5):351–6
Infectious disease and biological weapons. Prophylaxis and mitigation [editorial] Lederberg J. **JAMA** 1997 Aug 6; 278(5):435–6
Production and use of biological weapons: need for international sanctions? [letter] Leitenberg M. **JAMA** 1997 Aug 6;278(5):387–8
The complementary role of environmental and security biological control regimes in the 21st century. Pearson GS. **JAMA** 1997 Aug 6;278(5):369–72
Biological terrorism. Preparing to meet the threat. Simon JD. **JAMA** 1997 Aug 6;278(5):428–30
Pentagon-funded research takes aim at agents of biological warfare [news] Stephenson J. **JAMA** 1997 Aug 6; 278(5):373–5
National health and medical services response to incidents of chemical and biological terrorism. Tucker JB. **JAMA** 1997 Aug 6;278(5):362–8
The agents of biological warfare. Vogel P, et al. **JAMA** 1997 Aug 6;278(5):438–9
Iraq's biological weapons. The past as future? Zilinskas RA. **JAMA** 1997 Aug 6;278(5):418–24
Talks start on policing bio-weapons ban...as 'designer weapons' threat is disputed [news] Butler D. **Nature** 1997 Jul 24;388(6640):317
'Action needed to counter bioterrorism' [news] Wadman M. **Nature** 1997 Aug 21;388(6644):703
The specter of biological weapons. Cole LA. **Sci Am** 1996 Dec;275(6):60–5
Too radical for NIH? Try DARPA [news] Marshall E. **Science** 1997 Feb 7;275(5301):744–6
Defusing the poor man's nuke. BeSaw L. **Tex Med** 1997 Jun; 93(6):49–51

HISTORY

Biological warfare. A historical perspective. Christopher GW, et al. **JAMA** 1997 Aug 6;278(5):412–7

LEGISLATION & JURISPRUDENCE

Biological weapons and US law. Ferguson JR. **JAMA** 1997 Aug 6;278(5):357–60

PREVENTION & CONTROL

Deterrence of biological and chemical warfare: a review of policy options. Lebeda FJ. **Mil Med** 1997 Mar; 162(3):156–61 (61 ref.)
Strategies for the prevention of a successful biological warfare aerosol attack. Wiener SL. **Mil Med** 1996 May; 161(5):251–6

TRENDS

Gene warfare--unless we keep our guard up [editorial] **Lancet** 1996 Nov 2;348(9036):1183

BIOLOGICAL WASTE DISPOSAL see **MEDICAL WASTE DISPOSAL**

BIOLOGICS see **BIOLOGICAL PRODUCTS**

BIOLOGY

Expanding the biocultural synthesis toward a biology of poverty. Leatherman TL, et al. **Am J Phys Anthropol** 1997 Jan;102(1):1–3
Ethical and intellectual property in the biological sciences. Maher EA. **Cell Mol Biol (Noisy-le-grand)** 1997 May; 43(3):263–7
Bibliography of cellular and molecular biology research. **Cell Mol Biol Res** 1995;41(5):477–86
Using explicitly represented biological relationships for database navigation and searching via the World-Wide Web. Panzer S, et al. **Comput Appl Biosci** 1997 Jun; 13(3):281–90
The biological toolbox: a computer program for simulating basic biological and pathological processes. Vawer A, et al. **Comput Methods Programs Biomed** 1997 Mar; 52(3):203–11
Let's all go to the movies. **Curr Biol** 1996 Jul 1;6(7):766–7
Pushovers. Spider T. **Curr Biol** 1997 Feb 1;7(2):R62
The cell biologist and the World Wide Web. World Wide Web sites. Lafont F, et al. **Curr Opin Cell Biol** 1997 Feb; 9(1):116–7 (2 ref.)
The development of biological explanation: are children vitalists? Miller JL, et al. **Dev Psychol** 1997 Jan;33(1):156–64
Environmental Biology 97. New Orleans, Louisiana, April 6–9, 1997. Abstracts. **FASEB J** 1997 Feb;11(3):A1–767
Structural biology gets UK funding boost [news] Masood E. **Nature** 1997 May 1;387(6628):6
A crisis in scientific morale. Pollack R. **Nature** 1997 Feb 20;385(6618):673–4
US biologists adopt cloning moratorium [news] Wadman M. **Nature** 1997 Sep 25;389(6649):319
Current awareness in NMR in biomedicine. **NMR Biomed** 1996 Oct;9(7):322–5
Metaphors for the effects of weak, sequentially complex magnetic fields. Persinger MA. **Percept Mot Skills** 1997 Aug;85(1):204–6
Is biology reducible to chemistry? Hunter GK. **Perspect Biol Med** 1996 Autumn;40(1):130–8
Biologists cut reductionist approach down to size [news] Williams N. **Science** 1997 Jul 25;277(5325):476–7
[The word of the editorialist (editorial)] Dhondt JL. **Ann Biol Clin (Paris)** 1997 Jan–Feb;55(1):8 **(Fre)**
[Editorial policy of the SFBC (French Society of Biology) (editorial)] Jardillier JC. **Ann Biol Clin (Paris)** 1997 Jan–Feb;55(1):7 **(Fre)**
[Hospital biology laboratories are sick of gurus and other consultants (letter)] Pinon G. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):358–9 **(Fre)**
[The Francqui Prize 1996 awarded to Etienne Pays (news)] **Sante** 1996 Jul–Aug;6(4):260 **(Fre)**
[Advances in cell biology and research on neovascularization] Inomata H. **Nippon Ganka Gakkai Zasshi** 1996 Aug;100(8):573–4 (14 ref.) **(Jpn)**
[Application of laser technology to basic cell biology and its future] Tasaka K. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug; 48(8):678–82 (0 ref.) **(Jpn)**

ECONOMICS

Participation of life-science faculty in research relationships with industry. Blumenthal D, et al. **N Engl J Med** 1996 Dec 5;335(23):1734–9

BIOLOGY

EDUCATION

Doctoral education in the biomedical sciences: back to the future? Knobil E. **Acad Med** 1996 Aug;71(8):871–5

The Stanford Medical Youth Science Program [letter] Winkleby MA, et al. **Acad Med** 1996 May;71(5):419

Problem–based biochemistry practicals for students of environmental and marine biology. Jervis L, et al. **Biochem Soc Trans** 1996 Aug;24(3):403S

The study of biology as a cause of anxiety in student nurses undertaking the common foundation programme. Nicoll L, et al. **J Adv Nurs** 1996 Sep;24(3):615–24

Facing creationist challenges. Walker PL. **Lancet** 1996 Nov 23;348(9039):1397–8

The GI Project: a prototype electronic textbook for high school biology. Calhoun PS, et al. **Radiographics** 1997 Jan–Feb;17(1):203–11

Evolution teaching [letter; comment] Erpino MJ. **Science** 1996 Nov 8;274(5289):904. Comment on: Science 1996 Jul 26;273(5274):420–2.

[The new biology in medical education––an essential but not a sufficient paradigm] Raivio K. **Duodecim** 1995; 111(19):1877–80 (10 ref.) **(Fin)**

HISTORY

Serge Timasheff: the man with a genius for solutions in biology. Schellman JA, et al. **Biophys J** 1996 Oct; 71(4):1985–93

The evolution of 'the cell theory'. Wolpert L. **Curr Biol** 1996 Mar 1;6(3):225–8

The dueling diagnoses of Darwin [letter; comment] Adler J. **JAMA** 1997 Apr 23–30;277(16):1275; discussion 1276–7 . Comment on: JAMA 1997 Jan 8;277(2):138–41.

Charles Darwin and panic disorder [see comments] Barloon TJ, et al. **JAMA** 1997 Jan 8;277(2):138–41. Comment in: JAMA 1997 Apr 23–30;277(16):1275; discussion 1276–7. Comment in: JAMA 1997 Apr 23–30;277(16):1275–6; discussion 1276–7. Comment in: JAMA 1997 Apr 23–30;277(16);1276; discussion 1276–7.

The dueling diagnoses of Darwin [letter; comment] Colp R Jr. **JAMA** 1997 Apr 23–30;277(16):1275–6; discussion 1276–7. Comment on: JAMA 1997 Jan 8;277(2):138–41.

The dueling diagnoses of Darwin [letter; comment] FitzGibbon GM. **JAMA** 1997 Apr 23–30;277(16):1276; discussion 1276–7. Comment on: JAMA 1997 Jan 8;277(2):138–41.

The dueling diagnoses of Darwin [letter; comment] Gordon AG. **JAMA** 1997 Apr 23–30;277(16):1276; discussion 1276–7. Comment on: JAMA 1997 Jan 8;277(2):138–41.

George Wald (1906–97) [news] [see comments] Dowling JE. **Nature** 1997 May 22;387(6631):356. Comment in: Nature 1997 Jul 3;388(6637):13.

John Cowdery Kendrew (1917–97) [news] Holmes KC. **Nature** 1997 Sep 25;389(6649):340

[The history of the origin and development of the ideas of cybernetics in the works of medical scientists and biologists of Ukraine and Russia] Maliukov VM, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):199–200 **(Rus)**

INSTRUMENTATION

Computers in biology: the future is today. Prilusky J. **Arch Biol Med Exp (Santiago)** 1986;19(3–4):323–8 (7 ref.)

Microcomputers and biologists. Smith IC. **Arch Biol Med Exp (Santiago)** 1986;19(3–4):313–21 (18 ref.)

[General guidelines relating to the evaluation of reactants, equipments or medical biology analysis systems. Group de travail SFBC] Masseyeff R, et al. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):371–84 **(Fre)**

LEGISLATION & JURISPRUDENCE

Africa spearheads bid for strict rules on biosafety [news] Masood E. **Nature** 1997 May 22;387(6631):326

Biology, not microbiology [letter; comment] Vossius V. **Nature** 1997 Jun 12;387(6634):649. Comment on: Nature 1997 Apr 17;386(6626):641.

METHODS

Small–angle neutron scattering instrument of institute for solid state physics, the University of Tokyo (SANS–U) and its application to biology. Ito Y, et al. **Basic Life Sci** 1996;64:115–26

Neutrons in biology. A perspective. Knott RB, et al. **Basic Life Sci** 1996;64:1–15 (117 ref.)

Optical trapping and manipulation of neutral particles using lasers. Ashkin A. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4853–60 (155 ref.)

[General guidelines relating to the evaluation of reactants, equipments or medical biology analysis systems. Group de travail SFBC] Masseyeff R, et al. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):371–84 **(Fre)**

[Digital image processing: fundamental techniques and applications in biological research] Cordova F, et al. **Arch Biol Med Exp (Santiago)** 1986;19(3–4):359–73 (6 ref.) (Eng. Abstr.) **(Spa)**

STANDARDS

Clinton sketches out his 'ethical guideposts' for modern biology [news] Wadman M. **Nature** 1997 May 22; 387(6631):323

[Calibration and quality control] Férard G, et al. **Ann Biol Clin (Paris)** 1997 Jan–Feb;55(1):50–1 **(Fre)**

[References and procedures of recognition in medical biology. Normalisation, certification, accreditation: how to recognize?] Simonnet C. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):348–55 **(Fre)**

TRENDS

Hard days on the endless frontier. Pollack R. **FASEB J** 1997 Aug;11(10):725–31

BIOLUMINESCENCE see **LUMINESCENCE**

BIOLUMINESCENT PROTEINS see **LUMINESCENT PROTEINS**

BIOMASS

The primate community of the Lopé Reserve, Gabon: diets, responses to fruit scarcity, and effects on biomass. Tutin CE, et al. **Am J Primatol** 1997;42(1):1–24

Analysis of biomass cellulose in simultaneous saccharification and fermentation processes. Chung YC, et al. **Appl Biochem Biotechnol** 1997 Jun;66(3):249–62

The relationship between in vitro gas production, in vitro microbial biomass yield and 15N incorporation and its implications for the prediction of voluntary feed intake of roughages. Blümmel M, et al. **Br J Nutr** 1997 Jun; 77(6):911–21

Bronchial responsiveness of non–smoking women exposed to environmental tobacco smoke or biomass fuel combustion. Jindal SK, et al. **Indian J Med Res** 1996 Dec; 104:359–64

Effect of fungal biomass in alfalfa hay on intake and total tract digestion in growing beef calves. Bossuyt CV, et al. **J Anim Sci** 1996 Jun;74(6):1336–42

Significant reduction of UVB caused by smoke from biomass burning in Brazil. Mims FM 3rd. **Photochem Photobiol** 1996 Nov;64(5):814–6

[Growth and substrate utilization by bacterial lawn on the agar surface: experiment and one–dimensional distributed model] Belova SE, et al. **Mikrobiologiia** 1996 Nov–Dec; 65(6):790–5 (Eng. Abstr.) **(Rus)**

BIOMATERIALS see **BIOCOMPATIBLE MATERIALS**

BIOMECHANICS

Force effects on biochemical kinetics. Khan S, et al. **Annu Rev Biochem** 1997;66:785–805 (69 ref.)

Joint meeting of the 21st Congress of the Society of Biomechanics, 19th Congress of the French Society of Fundamental and Clinical Biorheology, 4th Symposium on Cell Aggregation and Adhesion. Nancy, France, 23–25 September 1996. Abstracts. **Arch Physiol Biochem** 1996 Sep;104(5):543–727 **(Eng, Fre)**

Orthopaedic biomechanics. The past, present and future. Chao EY. **Int Orthop** 1996;20(4):239–43

Three–dimensional head kinematics and cervical range of motion in the diagnosis of patients with neck trauma. Osterbauer PJ, et al. **J Manipulative Physiol Ther** 1996 May; 19(4):231–7

Accuracy evaluation of an on–line kinematic system via dynamic tests. Dabnichki P, et al. **J Med Eng Technol** 1997 Mar–Apr;21(2):53–66

Physics, biology meet in self–assembling bacterial fibers [news] Potera C. **Science** 1997 Jun 6;276(5318):1499–500

Effects of muscle dysfunction on lumbar spine mechanics. A finite element study based on a two motion segments model. Kong WZ, et al. **Spine** 1996 Oct 1;21(19):2197–206; discussion 2206–7

Biomechanics of transfixation in pedicle screw instrumentation. Lim TH, et al. **Spine** 1996 Oct 1; 21(19):2224–9

The study of human body segment parameters in biomechanics. An historical review and current status report. Pearsall DJ, et al. **Sports Med** 1994 Aug; 18(2):126–40 (120 ref.)

[A study of biomechanical coupling between spine and rib cage in the treatment by orthosis of scoliosis] Aubin CE, et al. **Ann Chir** 1996;50(8):641–50 (Eng. Abstr.) **(Fre)**

BIOMEDICAL ENGINEERING

see related
ELECTRONICS, MEDICAL
MEDICAL INFORMATICS APPLICATIONS

Biomedical Engineering Society 1996 annual fall meeting. University Park, Pennsylvania, October 3–6, 1996. Abstracts. **Ann Biomed Eng** 1996 Sep–Oct;24 Suppl 1:S1–94

Strengthening bioengineering research: the public policy challenge. Foote SB. **ASAIO J** 1997 Jan–Feb;43(1):120–2

The AIMBE President's session: medical device innovation and the public interest. Galletti PM. **ASAIO J** 1997 May–Jun;43(3):127–31

NIH's John Watson battles bureaucracy for research. **Biomed Instrum Technol** 1996 Jan–Feb;30(1):75–6

The reengineering of clinical engineering. Shaffer MJ. **Biomed Instrum Technol** 1997 Mar–Apr;31(2):177–8

A cell–based immunobiosensor with engineered molecular recognition––Part I: Design feasibility. Pizziconi VB, et al. **Biosens Bioelectron** 1997;12(4):287–99

Periodontal tissue engineering by growth factors. Giannobile WV. **Bone** 1996 Jul;19(1 Suppl):23S–37S (117 ref.)

Tissue engineered bone–regeneration using degradable polymers: the formation of mineralized matrices. Laurencin CT, et al. **Bone** 1996 Jul;19(1 Suppl):93S–99S

Tissue–engineered heart valves. Autologous valve leaflet replacement study in a lamb model. Shinoka T, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II164–8

Thinking twice about "tissue engineering". Black J. **IEEE Eng Med Biol Mag** 1997 Jul–Aug;16(4):102–4

Health technology assessment and the NHS R&D initiative. Smith MA. **J Med Eng Technol** 1996 Nov–Dec;20(6):192–5

Simple self–tuned notch filter in a bio–potential amplifier. Yoo SK, et al. **Med Biol Eng Comput** 1997 Mar;35(2):151–4

Genetic engineering of immunotoxins. Chandler JC, et al. **Semin Pediatr Surg** 1996 Aug;5(3):206–11 (30 ref.)

Tissue engineering. Pollok JM, et al. **Semin Pediatr Surg** 1996 Aug;5(3):191–6 (34 ref.)

[Future biomedical sensors based on microelectromechanic system technology] Assentoft JE, et al. **Ugeskr Laeger** 1997 Mar 10;159(11):1590–2 **(Dan)**

[Lectures of the annual meeting of the German, Austrian and Swiss Societies for Medical and Biological Engineering. Zürich, 4–7 September, 1996] **Biomed Tech (Berl)** 1996;41 Suppl:1–660 **(Ger)**

[Resolutions of the Scientific–Technological Conference on Biomedical Engineering, Biomedical Equipment–96. Moscow, 8–10 October, 1996] **Med Tekh** 1997 Mar–Apr; (2):3–4 **(Rus)**

[International Conference on Medical Instrument Engineering "Biomedinstrument–96"] Kashirin IuV, et al. **Med Tekh** 1997 Jan–Feb;(1):4–8 **(Rus)**

[Trends in the development of medical technology in ophthalmology] Egorov EA, et al. **Vestn Oftalmol** 1996 Sep–Oct;112(5):33–5 (Eng. Abstr.) **(Rus)**

EDUCATION

Development of a continuing education program for biomedical engineering technicians. Farmer M. **Biomed Instrum Technol** 1996 Jan–Feb;30(1):46–8

How to prepare for the biomedical equipment technician certification exam. Xu Y. **Biomed Instrum Technol** 1996 Jan–Feb;30(1):71–4

Making the graduate school choice. Rigas M. **IEEE Eng Med Biol Mag** 1997 Jan–Feb;16(1):29–30

[Medical engineering education in Russia] Popechitelev EP. **Med Tekh** 1996 Jul–Aug;(4):34–7 **(Rus)**

[Experience, problems and prospects in training of bioengineer personnel] Ivanov OL, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Mar–Apr;(2):44–6 **(Rus)**

HISTORY

Edlich drive: a metaphor for the Edlich tradition. Bill TJ, et al. **J Emerg Med** 1997 Jul–Aug;15(4):525–30

INSTRUMENTATION

Medical device reprocessing: research and practice. **Biomed Instrum Technol** 1997 May–Jun;31(3):221–2

Risk–oriented maintenance. Capuano M, et al. **Biomed Instrum Technol** 1996 Jan–Feb;30(1):25–37

Cleaning techniques for medical devices: biofilms. Costerton JW. **Biomed Instrum Technol** 1997 May–Jun;31(3):222–6, 247

Automated in–vivo measurement of quasi–static lung compliance in the rat. LaBrie LJ 2d, et al. **Biomed Instrum Technol** 1996 Jan–Feb;30(1):51–4

Capital equipment support: a new era in technical service. Lewis J, et al. **Biomed Instrum Technol** 1996 Jan–Feb; 30(1):17–24

Linear hydraulic pressure–pulse actuator (LHPA): a versatile instrument that produces a simulated blood pressure pulse wave for small sized vessels. Field S, et al. **IEEE Trans Biomed Eng** 1996 Jun;43(6):663–8

Determination of the proximity tolerance for measurement of surface contact areas using a magnetic tracking device. Luo ZP, et al. **J Biomech** 1996 Mar;29(3):367–72

In–shoe biaxial shear force measurement: the Kent shear system. Akhlaghi F, et al. **Med Biol Eng Comput** 1996 Jul; 34(4):315–7

Development and evaluation of an inexpensive sensor system for use in measuring relative finger positions. Jurgens J, et al. **Med Eng Phys** 1997 Jan;19(1):1–6

An instrument for the non–invasive objective assessment of velar function during speech. McLean CC, et al. **Med Eng Phys** 1997 Jan;19(1):7–14

METHODS

Whitaker Lecture 1996: microcirculation, biomedical engineering, and artificial blood. Intaglietta M. **Ann Biomed Eng** 1997 Jul–Aug;25(4):593–603

Nanotechnology for biomaterials engineering: structural characterization of amphiphilic polymeric nanoparticles by 1H NMR spectroscopy. Hrkach JS, et al. **Biomaterials** 1997 Jan;18(1):27–30

The spectrum of irritancy and application of bioengineering techniques. Serup J. **Curr Probl Dermatol** 1995;23:131–43 (26 ref.)

Reproducibility of techniques using Archimedes' principle in measuring cancellous bone volume. Zou L, et al. **Med Eng Phys** 1997 Jan;19(1):63–8

ORGANIZATION & ADMINISTRATION

Application of the Deming management method to equipment-inspection processes. Campbell CA. **Biomed Instrum Technol** 1996 Jul-Aug;30(4):331-9

Technology acquisition strategies for clinical engineering. Capuano M. **Biomed Instrum Technol** 1997 Jul-Aug; 31(4):335-57

Medical equipment planning. **Health Devices** 1997 Jan; 26(1):4-5, 8-10, 12

STANDARDS

International standards: a smaller (and easier) world. Schmidt MW. **Biomed Instrum Technol** 1997 May-Jun;31(3):282-5

Clinical engineering cannot do benchmarking. Stiefel R. **Biomed Instrum Technol** 1997 May-Jun;31(3):286-8

Measuring quality and continuous improvement in a biomedical engineering department. Toll MO. **Biomed Instrum Technol** 1996 Jan-Feb;30(1):39-45

Auditing for compliance with quality systems requirements: the prospects for harmonization. Wurzel RD. **Biomed Instrum Technol** 1996 Jul-Aug;30(4):365-9

Safety management: expanding the role of clinical engineers. **Health Devices** 1996 Jan;25(1):6-37

Potential for use of a House of Quality Matrix technique in rehabilitation engineering. Logan GD, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):106-15

An engineer's perspective. Yoganathan AP. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S3-6 (0 ref.)

TRENDS

The future of clinical engineering practice: ACCE's Vision 2000. Kasti MS. **Biomed Instrum Technol** 1996 Nov-Dec; 30(6):490-5

BMETs in equipment repair depots: does the need remain? [comment] Russell DH. **Biomed Instrum Technol** 1996 Nov-Dec;30(6):532-4. Comment on: Biomed Instrum Technol 1996 Mar-Apr;30(2):178-80.

The reengineering of clinical engineering. Shaffer MJ. **Biomed Instrum Technol** 1997 Mar-Apr;31(2):177-8

The future of clinical engineering is---"appropriate". Stiefel RH. **Biomed Instrum Technol** 1996 Jan-Feb;30(1):84-5

Consolidation and downsizing: a new paradigm for clinical engineering [interview] Tanner LA, et al. **Biomed Instrum Technol** 1996 Nov-Dec;30(6):483-8

Current health care trends and their impact on clinical engineering. Zambuto RP. **Biomed Instrum Technol** 1997 May-Jun;31(3):228-36

Germ warfare. Medlin J. **Environ Health Perspect** 1997 Mar; 105(3):290-2

Perspectives on the future of clinical engineering. Consolidations, outsourcing, and opportunities---the new paradigm. **Health Devices** 1996 Aug;25(8):268-70

BIOMEDICAL RESEARCH see **RESEARCH**

BIOMEDICAL TECHNOLOGY see **TECHNOLOGY, MEDICAL**

BIOMETRY

On the art of measuring [editorial; comment] Roos H, et al. **Acta Orthop Scand** 1997 Feb;68(1):3-5. Comment on: Acta Orthop Scand 1997 Feb;68(1):41-5.

Order-restricted tests for stratified comparisons of binomial proportions. Agresti A, et al. **Biometrics** 1996 Sep; 52(3):1103-11

Nonparametric inference in factorial designs with censored data. Akritas MG, et al. **Biometrics** 1996 Sep;52(3):913-24

Comparing two diagnostic tests against the same "gold standard" in the same sample. Bloch DA. **Biometrics** 1997 Mar;53(1):73-85

Transformations to additivity in measurement error models. Eckert RS, et al. **Biometrics** 1997 Mar;53(1):262-72

A computationally simpler algorithm for the UMVUE of a normal mean following a group sequential trial. Emerson SS, et al. **Biometrics** 1997 Mar;53(1):365-9

Quantitative analysis of a presence/absence microbiological assay: the hard surface carrier test of disinfectant efficacy. Hamilton MA, et al. **Biometrics** 1996 Sep;52(3):1112-20

Modeling of time trends and interactions in vital rates using restricted regression splines. Heuer C. **Biometrics** 1997 Mar; 53(1):161-77

The behavior of the P-value when the alternative hypothesis is true. Hung HM, et al. **Biometrics** 1997 Mar;53(1):11-22

Changepoint statistics for assessing a treatment-covariate interaction. Koziol JA, et al. **Biometrics** 1996 Sep; 52(3):1147-52

Semiparametric estimation of major gene and family-specific random effects for age of onset. Li H, et al. **Biometrics** 1997 Mar;53(1):282-93

Estimating equations for measures of association between repeated binary responses. Lipsitz SR, et al. **Biometrics** 1996 Sep;52(3):903-12

Statistical analysis of animal cancer chemoprevention experiments [letter; comment] Marimuthu P. **Biometrics** 1996 Sep;52(3):1157. Comment on: Biometrics 1993 Mar;49(1):259-68.

Testing for homogeneity of Hardy-Weinberg disequilibrium using data sampled from several populations. Olson JM, et al. **Biometrics** 1996 Sep;52(3):971-9

An exact McNemar test for paired binary Markov chains. Smith W, et al. **Biometrics** 1996 Sep;52(3):1063-70

Estimating lead time and sensitivity in a screening program without estimating the incidence in the screened group. Straatman H, et al. **Biometrics** 1997 Mar;53(1):217-29

Analysis of time to death after transplantation when transplants are only given to patients in remission. Stram DO, et al. **Biometrics** 1996 Sep;52(3):1079-86

Regression calibration in failure time regression. Wang CY, et al. **Biometrics** 1997 Mar;53(1):131-45

Calculation of biochemical net reactions and pathways by using matrix operations. Alberty RA. **Biophys J** 1996 Jul; 71(1):507-15

Sample size estimation for nominal data [letter] Lerman J. **Can J Anaesth** 1997 Aug;44(8):901

A SAS macro for constructing simultaneous confidence intervals for multinomial proportions. May WL, et al. **Comput Methods Programs Biomed** 1997 Jul;53(3):153-62

QC Validator 2.0: a computer program for automatic selection of statistical QC procedures for applications in healthcare laboratories. Westgard JO, et al. **Comput Methods Programs Biomed** 1997 Jul;53(3):175-86

2nd Joint meeting of the Society for Clinical Trials and the International Society of Clinical Biostatistics. Boston, Massachusetts, July 6-10, 1997. Abstracts. **Control Clin Trials** 1997 Jun;18(3 Suppl):41S-211S

Hunting for trees in binary character sets: efficient algorithms for extraction, enumeration, and optimization. Bryant D. **J Comput Biol** 1996 Summer;3(2):275-88

Research design and methods of quantitative synthesis of medical evidence. Peipert JF, et al. **Obstet Gynecol** 1997 Sep;90(3):473-8 (23 ref.)

Statistical Issues in HIV/AIDS Research. Proceedings of a symposium. Bethesda, Maryland, 12-13 June 1995. **Stat Med** 1996 Nov 15-30;15(21-22):2269-490

Proceedings of a workshop on statistical methods for incomplete covariate data in clinical and epidemiological studies. Freiburg, Germany, 16-18 February 1995. **Stat Med** 1997 Jan 15-Feb 15;16(1-3):1-319

Guidelines for budgeting biostatistics involvement in research projects. Lesser ML. **Stat Med** 1996 Oct 30;15(20):2127-33

Non-normal variation and regression to the mean. Chesher A. **Stat Methods Med Res** 1997 Jun;6(2):147-66

The impact and implication of regression to the mean on the design and analysis of medical investigations. Chuang-Stein C, et al. **Stat Methods Med Res** 1997 Jun; 6(2):115-28

Using regression models for prediction: shrinkage and regression to the mean. Copas JB. **Stat Methods Med Res** 1997 Jun;6(2):167-83

Adjusting for regression toward the mean when variables are normally distributed. Lin HM, et al. **Stat Methods Med Res** 1997 Jun;6(2):129-46

[Planning, not evaluation. The role of medical biometry] Trampisch HJ. **Internist (Berl)** 1997 Apr;38(4):307-17 (13 ref.) **(Ger)**

[Exploratory-confirmative perspective in biomedical applications of statistics: 2 dialogues (I). Bayesianism versus frequentialism: their respective practical implications on data analysis] Bacallao J. **Med Clin (Barc)** 1996 Oct 12; 107(12):467-71 **(Spa)**

[Data description based on percentiles (letter; comment)] Ramalle-Gómara E, et al. **Med Clin (Barc)** 1996 Nov 16; 107(17):679. Comment on: Med Clin (Barc) 1996 Mar 2;106(8):281-4. **(Spa)**

HISTORY

Ever since Gompertz. Olshansky SJ, et al. **Demography** 1997 Feb;34(1):1-15

The EM algorithm and medical studies: a historical link. Meng XL. **Stat Methods Med Res** 1997 Mar;6(1):3-23 (39 ref.)

Regression towards the mean, historically considered. Stigler SM. **Stat Methods Med Res** 1997 Jun;6(2):103-14 (22 ref.)

INSTRUMENTATION

Recommended method for measuring changes in thickness of the bovine teat with spring-loaded calipers. Hamann J, et al. **J Dairy Res** 1996 May;63(2):309-13

METHODS

An appraisal of the accuracy of Littmann's method of determining the real dimension of a retinal object. Barr DB. **Acta Ophthalmol Scand Suppl** 1995;(216):1-12 (38 ref.)

Review of methodologies for the comparison of dissolution profile data. O'Hara T, et al. **Adv Exp Med Biol** 1997; 423:167-71 (6 ref.)

Estimating the date of confinement [letter; comment] Hutchon DJ. **Am J Obstet Gynecol** 1996 Aug;175(2):510-1. Comment on: Am J Obstet Gynecol 1996 Jan;174(1 Pt 1):278-81.

Analysis of method comparison studies [editorial] Hollis S. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):1-4

The inhalation acute toxic class method: test procedures and biometric evaluations. Diener W, et al. **Arch Toxicol** 1997; 71(9):537-49

The analysis of categorical case-control data subject to nonignorable nonresponse. Baker SG. **Biometrics** 1996 Mar; 52(1):362-9

The effect of variance function estimation on nonlinear calibration inference in immunoassay data. Belanger BA, et al. **Biometrics** 1996 Mar;52(1):158-75

Sequential analysis of censored survival data from three treatment groups. Betensky RA. **Biometrics** 1997 Sep; 53(3):807-22

A semiparametric extension of the Mann-Whitney test for randomly truncated data. Bilker WB, et al. **Biometrics** 1996 Mar;52(1):10-20

High-dimensional multivariate probit analysis. Bock RD, et al. **Biometrics** 1996 Dec;52(4):1183-94

Tests to detect clustering of infected individuals within families. Britton T. **Biometrics** 1997 Mar;53(1):98-109

Practical Bayesian inference using mixtures of mixtures. Cao G, et al. **Biometrics** 1996 Dec;52(4):1334-41

Effect of omitted confounders on the analysis of correlated binary data. Chao WH, et al. **Biometrics** 1997 Jun; 53(2):678-89

Antihypertensive effect of drugs: statistical distribution of the trough-to-peak ratio. Chi VX, et al. **Biometrics** 1996 Mar;52(1):286-90

A weighted concordance correlation coefficient for repeated measurement designs. Chinchilli VM, et al. **Biometrics** 1996 Mar;52(1):341-53

Designs for phase II trials allowing for a trade-off between response and toxicity. Conaway MR, et al. **Biometrics** 1996 Dec;52(4):1375-86

Interim monitoring of longitudinal comparative studies with recurrent event responses. Cook RJ, et al. **Biometrics** 1996 Dec;52(4):1311-23

Testing the homogeneity of kappa statistics. Donner A, et al. **Biometrics** 1996 Mar;52(1):176-83

A random walk rule for phase I clinical trials. Durham SD, et al. **Biometrics** 1997 Jun;53(2):745-60

Bias in slope estimates for the linear errors in variables model by the variance ratio method. Edland SD. **Biometrics** 1996 Mar;52(1):243-8

A competing risks analysis of presenting AIDS diagnoses trends. Fusaro RE, et al. **Biometrics** 1996 Mar;52(1):211-25

A comment on interim analyses in crossover trials. Grieve AP, et al. **Biometrics** 1996 Dec;52(4):1515-20

A note on fitting a marginal model to mixed effects log-linear regression data via GEE. Grömping U. **Biometrics** 1996 Mar;52(1):280-5

Use of historical controls in time-adjusted trend tests for carcinogenicity. Ibrahim JG, et al. **Biometrics** 1996 Dec; 52(4):1478-85

Exact confidence intervals for the common mean of several normal populations. Jordan SM, et al. **Biometrics** 1996 Mar; 52(1):77-86

Estimation of absolute risk from nested case-control data. Langholz B, et al. **Biometrics** 1997 Jun;53(2):767-74

Duration of ventilating tubes: a test for comparing two clustered samples of censored data. Le CT, et al. **Biometrics** 1996 Mar;52(1):328-34

Test of homogeneity [letter] Li BY. **Biometrics** 1996 Dec; 52(4):1521-3

Multipoint linkage analysis via Metropolis jumping kernels. Lin S. **Biometrics** 1996 Dec;52(4):1417-27

Intent-to-treat analysis for longitudinal studies with drop-outs. Little R, et al. **Biometrics** 1996 Dec; 52(4):1324-33

Pattern-mixture models for multivariate incomplete data with covariates. Little RJ, et al. **Biometrics** 1996 Mar; 52(1):98-111

Mantel-Haenszel-type inference for cumulative odds ratios with a stratified ordinal response. Liu IM, et al. **Biometrics** 1996 Dec;52(4):1223-34

Generalized estimating equations for ordinal data: a note on working correlation structures. Lumley T. **Biometrics** 1996 Mar;52(1):354-61

A latent process regression model for spatially correlated count data. McShane LM, et al. **Biometrics** 1997 Jun; 53(2):698-706

Nonparametric survival estimation using prognostic longitudinal covariates. Murray S, et al. **Biometrics** 1996 Mar;52(1):137-51

Subset selection with additional order information. Pan G. **Biometrics** 1996 Dec;52(4):1363-74

Using projection for testing goodness-of-fit in regression models for repeated measures. Qu RP, et al. **Biometrics** 1996 Dec;52(4):1259-67

Assessing reproducibility by the within-subject coefficient of variation with random effects models. Quan H, et al. **Biometrics** 1996 Dec;52(4):1195-203

Confidence intervals for the generalized ROC criterion. Reiser B, et al. **Biometrics** 1997 Jun;53(2):644-52

Sequential estimation of linkage between PCR-generated markers and a target gene employing stepwise bulked analysis. Ronin YI, et al. **Biometrics** 1996 Dec; 52(4):1428-39

Signed rank statistics for coherent predictions. Rosenbaum PR. **Biometrics** 1997 Jun;53(2):556-66

Matching using estimated propensity scores: relating theory to practice. Rubin DB, et al. **Biometrics** 1996 Mar; 52(1):249-64

Tests of independence for bivariate survival data. Shih JH, et al. **Biometrics** 1996 Dec;52(4):1440-9

Bayesian hypothesis testing of four-taxon topologies using molecular sequence data. Sinsheimer JS, et al. **Biometrics** 1996 Mar;52(1):193-210

Inference for phylogenies under a hybrid parsimony method: evolutionary-symmetric transversion parsimony. Sinsheimer JS, et al. **Biometrics** 1997 Mar;53(1):23-38

A reexamination of the cell-lineage data of E. O. Powell.

Staudte RG, et al. **Biometrics** 1996 Dec;52(4):1214–22
A modified EM algorithm for estimation in generalized mixed models. Steele BM. **Biometrics** 1996 Dec;52(4):1295–310
Two–stage method of estimation for general linear growth curve models. Stukel TA, et al. **Biometrics** 1997 Jun; 53(2):720–8
Some permutation tests for survival data. Sun Y, et al. **Biometrics** 1996 Mar;52(1):87–97
Multiple test procedures for dose finding. Tamhane AC, et al. **Biometrics** 1996 Mar;52(1):21–37
Explanatory analyses of randomized studies. Tritchler D. **Biometrics** 1996 Dec;52(4):1450–6
Weighted logrank tests to detect a transient improvement in survivorship. Wallenstein S, et al. **Biometrics** 1997 Jun; 53(2):736–44
Large sample tests for binary outcomes in fixed–dose combination drug studies. Wang SJ, et al. **Biometrics** 1997 Jun;53(2):498–503
Design of multiple binary outcome studies with intentionally missing data. Williams P, et al. **Biometrics** 1996 Dec; 52(4):1498–514
Assessing interrater agreement from dependent data. Williamson JM, et al. **Biometrics** 1997 Jun;53(2):707–14
Nonparametric estimation of solid cancer size at metastasis and probability of presenting with metastasis at detection. Xu JL, et al. **Biometrics** 1997 Jun;53(2):579–91
Fieller's theorem, Scheffé simultaneous confidence intervals, and ratios of parameters of linear and nonlinear mixed–effects models. Young DA, et al. **Biometrics** 1997 Sep;53(3):838–47
Regression analysis with missing covariate data using estimating equations. Zhao LP, et al. **Biometrics** 1996 Dec; 52(4):1165–82
On the statistical analysis of bioassays. Wong MY. **Comput Methods Programs Biomed** 1996 May;49(3):191–7
A comparison of slit–lamp supported versus hand–held biometry. Whelehan IM, et al. **Eye** 1996;10 (Pt 4):514–6
EM algorithms without missing data. Becker MP, et al. **Stat Methods Med Res** 1997 Mar;6(1):38–54
The impact of the EM algorithm on medical statistics [editorial] McLachlan G. **Stat Methods Med Res** 1997 Mar; 6(1):1–2
On the EM algorithm for overdispersed count data. McLachlan GJ. **Stat Methods Med Res** 1997 Mar; 6(1):76–98 (85 ref.)
[Epidemiological studies on the transmission of bovine spongiform encephalopathy (BSE)—remarks from a biometric viewpoint] Dahms S. **Berl Munch Tierarztl Wochenschr** 1997 May;110(5):161–5 (Eng. Abstr.) **(Ger)**

BIOMODULATORS see **BIOLOGICAL RESPONSE MODIFIERS**

BIOMPHALARIA

Chemoattraction and penetration of Echinostoma trivolvis and E. caproni cercariae in the presence of Biomphalaria glabrata, Helisoma trivolvis, and Lymnaea elodes dialysate. Fried B, et al. **Parasitol Res** 1997;83(2):193–7
Occurrence of Biomphalaria tenagophila (D'Orbigny, 1835) in the Municipality of Ilhabela, at the seacoast of São Paulo, Brazil. Vasconcellos M, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):225–6
[Distribution of Biomphalaria straminae in the southern neotropical region of Brazil] Teles HM. **Rev Saude Publica** 1996 Aug;30(4):341–9 (Eng. Abstr.) **(Por)**
[Geographic distribution of planorbidae in Santa Catarina, Brazil] Schlemper Júnior BR, et al. **Rev Soc Bras Med Trop** 1996 Sep–Oct;29(5):411–8 (Eng. Abstr.) **(Por)**

ANATOMY & HISTOLOGY

Biomphalaria subprona (Martens, 1899) (Gastropoda: Planorbidae). Lobato Paraense W. **Mem Inst Oswaldo Cruz** 1996 Mar–Apr;91(2):187–90

CLASSIFICATION

Neotropical planorbid snails with apertural lamellae. I. Biomphalaria helophila (Orbigny, 1835). Lobato Parense W. **Mem Inst Oswaldo Cruz** 1996 Mar–Apr;91(2):177–86

DRUG EFFECTS

The interactive effect of some molluscicides on the inermediate host of human bilharziasis and their associated zoosporic fungi in the river Nile, Egypt. Badran RA. **Bull Soc Pathol Exot** 1996;89(3):227–31

EMBRYOLOGY

Schistosoma japonicum: in vitro cultivation of miracidium to daughter sporocyst using a Biomphalaria glabrata embryonic cell line. Coustau C, et al. **Exp Parasitol** 1997 Oct;87(2):77–87

ENZYMOLOGY

Phenoloxidase activity in the reproductive system and egg masses of the pulmonate gastropod, Biomphalaria glabrata. Bai G, et al. **Comp Biochem Physiol B Biochem** Mol Biol 1996 Aug; 114(4):353–9

GENETICS

Schistosoma mansoni: use of a subtractive cloning strategy to search for RFLPs in parasite–resistant Biomphalaria glabrata. Miller AN, et al. **Exp Parasitol** 1996 Dec; 84(3):420–8

IMMUNOLOGY

Phagocytosis of latex beads by Biomphalaria glabrata hemocytes is modulated in a strain–specific manner by adsorbed plasma components. Fryer SE, et al. **Dev Comp Immunol** 1996 Jan–Feb;20(1):23–37
An invertebrate (Molluscan) plasma protein that binds to vertebrate immunoglobulins and its potential for yielding false–positives in antibody–based detection systems. Hahn UK, et al. **Dev Comp Immunol** 1996 Jan–Feb;20(1):39–50
The immunogenic effect of purified antigens of B. alexandrina against Schistosoma mansoni in experimental animals (I) as measured by worm load and viability of ova. Gamal–Eddin FM, et al. **J Egypt Soc Parasitol** 1996 Dec; 26(3):609–17

METABOLISM

Effects of restricted food intake on neutral lipid and free fatty acid levels in the digestive gland–gonad complex and faeces of Biomphalaria glabrata (Gastropoda). Conaway CA, et al. **Biomed Chromatogr** 1996 Jul–Aug;10(4):186–8
Schistosoma mansoni miracidial host–finding: species specificity of an Egyptian strain. Kalbe M, et al. **Parasitol Res** 1996;82(1):8–13
DNA transfer in a Biomphalaria glabrata embryonic cell line by DOTAP lipofection. Lardans V, et al. **Parasitol Res** 1996;82(6):574–6

PARASITOLOGY

Altered nutrition and assimilation of the snail host (Biomphalaria glabrata) as a consequence of the parasitic spatial constraint (Schistosoma mansoni). Gerard C, et al. **Acta Trop** 1996 Mar;61(1):51–5
Schistosoma mansoni: effect of aestivation on the intra–molluscan stages and the survival rate of infected Biomphalaria pfeifferi. Badger LI, et al. **Ann Trop Med Parasitol** 1996 Dec;90(6):617–20
Circadian pattern of cercarial emergence in Schistosoma mansoni (Platyhelminthes:Digenea) from isolated Biomphalaria glabrata. Bogéa T, et al. **Chronobiol Int** 1996 Jul;13(2):93–101
Schistosoma mansoni: distribution patterns of miracidia among Biomphalaria glabrata snail as related to host susceptibility and sporocyst regulatory processes. Théron A, et al. **Exp Parasitol** 1997 Jan;85(1):1–9
Susceptibility of three successive snail generations from positive and negative laboratory bred Biomphalaria alexandrina from different localities in Egypt to infection with Schistosoma mansoni from Giza. Shoukry NM, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):317–29
Migration and development of mother sporocysts of Echinostoma caproni (Digenea: Echinostomatidae). Ataev GL, et al. **J Parasitol** 1997 Jun;83(3):444–53
In vivo and ectopic encystment of Echinostoma revolutum and chemical excystation of the metacercariae. Fried B, et al. **J Parasitol** 1997 Apr;83(2):251–4
Detection of Schistosoma mansoni in Biomphalaria using nested PCR. Hanelt B, et al. **J Parasitol** 1997 Jun; 83(3):387–94
PCR amplification of the mitochondrial DNA minisatellite region to detect Schistosoma mansoni infection in Biomphalaria glabrata snails. Jannotti–Passos LK, et al. **J Parasitol** 1997 Jun;83(3):395–9
Change in schistosome sex ratio under the influence of a biotic environmental–related factor. Moné H. **J Parasitol** 1997 Apr;83(2):220–3
Fate of Schistosoma mansoni in Biomphalaria obstructa. Sullivan JT, et al. **J Parasitol** 1996 Oct;82(5):743–7
Schistosoma mansoni: the ultrastructure of larval morphogenesis in Biomphalaria glabrata and of associated host–parasite interactions. Pan SC. **Jpn J Med Sci Biol** 1996 Aug;49(4):129–49 (27 ref.)
Observed disparity on schistosome infection rates in field Biomphalaria pfeifferi (Krauss) between two areas of the Jos Metropolis, Nigeria. Akufongwe PF, et al. **Parasite** 1995 Mar;2(1):89–91
Schistosoma mansoni: cercarial shedding patterns from a mixed infection of Biomphalaria glabrata with two (early and late) chronobiological variants. Théron A, et al. **Parasitol Res** 1997;83(4):356–8
Schistosoma mansoni: the sex ratios of worms in animals infected with cercariae from three species of Biomphalaria. de Souza CP, et al. **Rev Inst Med Trop Sao Paulo** 1996 Mar–Apr;38(2):141–5
[Behavior of hemolymph amebocytes from planorbidae in the presence of Schistosoma mansoni larvae parasitism, after inoculation of Indian ink or fracture of the shell] de Seta L, et al. **Rev Saude Publica** 1996 Aug;30(4):332–40 (Eng. Abstr.) **(Por)**
[The effect of hemolymph inoculation on the mechanism of defense of Biomphalaria tenagophila (Orbigny, 1835)] Reis SM, et al. **Rev Saude Publica** 1995 Aug;29(4):259–64 (Eng. Abstr.) **(Por)**
[Relationship between the pathogenicity of Schistosoma mansoni in mice and the susceptibility of the vector mollusk. III. Mortality, body and viscera weight] Zanotti–Magalhaes EM, et al. **Rev Saude Publica** 1995 Aug; 29(4):265–70 (Eng. Abstr.) **(Por)**
[Schistosoma mansoni: the levels of infectivity for intermediate host mollusks in Brazil] de Souza CP, et al. **Rev Soc Bras Med Trop** 1996 Jan–Feb;29(1):11–6 (Eng. Abstr.) **(Por)**
[The resistance of Biomphalaria glabrata to Schistosoma mansoni infection: variations in the prepatent period and in compatibility] Guimarães CT, et al. **Rev Soc Bras Med Trop** 1997 Jul–Aug;30(4):273–8 (Eng. Abstr.) **(Por)**
[Susceptibility of Biomphalaria tenagophila from the Paraná and Uruguay River basins to Schistosoma mansoni] Borda CE, et al. **Rev Panam Salud Publica** 1997 Mar;1(3):167–73 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Effect of 60Co gamma radiation on Biomphalaria glabrata (Mollusca, Gastropoda) embryos: mortality, malformation and hatching. Okazaki K, et al. **Braz J Med Biol Res** 1996 Aug;29(8):1057–67

BIONATOR see **ACTIVATOR APPLIANCES**

BIONICS

see related
CYBERNETICS
Coupled oscillators utilised as gait rhythm generators of a two–legged walking machine. Zielińska T. **Biol Cybern** 1996 Mar;74(3):263–73

INSTRUMENTATION

The bionic glove: an electrical stimulator garment that provides controlled grasp and hand opening in quadriplegia. Prochazka A, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):608–14

TRENDS

Body parts: in vivo veritas [editorial] Greco RS. **J Biomed Mater Res** 1997 Mar 15;34(4):409–10

BIONOMICS see **ECOLOGY**

BIOPERIODICITY see **PERIODICITY**

BIOPHARMACEUTICS

see related
DRUG COMPOUNDING
Fractal geometry, fractal kinetics and chaos en route to biopharmaceutical sciences. Macheras P, et al. **Eur J Drug Metab Pharmacokinet** 1996 Apr–Jun; 21(2):77–86 (49 ref.)
General principles in the characterization and use of model systems for biopharmaceutical studies. Borchardt RT, et al. **Pharm Biotechnol** 1996;8:1–11 (51 ref.)

ECONOMICS

Pharmacoeconomics: where is the link with pharmacokinetics and biopharmaceutics? Peys F. **Eur J Drug Metab Pharmacokinet** 1996 Apr–Jun; 21(2):189–200 (29 ref.)
Pharmacoeconomics: where is the link with pharmacokinetics and biopharmaceutics? Peys F. **Pharm World Sci** 1997 Apr; 19(2):73–81 (29 ref.)

LEGISLATION & JURISPRUDENCE

'1996' starting the modern era of biologics regulation: FDA's elimination of establishment licensure and other changes. Gamerman GE, et al. **Biotechnol Appl Biochem** 1997 Jun; 25 (Pt 3):189–95 (31 ref.)
FDA regulatory reform. Beatrice M. **Curr Opin Biotechnol** 1997 Jun;8(3):370–8 (22 ref.)
Regulatory affairs biopharmaceuticals regulation—progress and challenges [editorial] Lambert K. **Curr Opin Biotechnol** 1997 Jun;8(3):347–9 (8 ref.)
Potential influence of international harmonization of pharmaceutical regulations on biopharmaceutical development. Lubiniecki AS. **Curr Opin Biotechnol** 1997 Jun;8(3):350–6 (30 ref.)

METHODS

A case study and use of sedimentation equilibrium analytical ultracentrifugation as a tool for biopharmaceutical development. Varley PG, et al. **Eur Biophys J** 1997; 25(5–6):437–43
Advances in biopharmaceutical analysis in the People's Republic of China: 1993–1995. Qin ZL. **J Pharm Biomed Anal** 1996 Aug;14(11):1395–403 (65 ref.)

STATISTICS & NUMERICAL DATA

Five modified numerical deconvolution methods for biopharmaceutics and pharmacokinetics studies. Yu Z, et al. **Biopharm Drug Dispos** 1996 Aug;17(6):521–40

BIOPHYSICS

Applications of impedance spectroscopy in biochemistry and biophysics. Janshoff A, et al. **Acta Biochim Pol** 1996; 43(2):339–48 (19 ref.)

Biophysical Society 41st annual meeting. New Orleans, Louisiana, 2–6 March 1997. Abstracts. **Biophys J** 1997 Feb; 72(2 Pt 2):A1–476

Origin of life and the underlying physics of the universe. Conrad M. **Biosystems** 1997;42(2–3):177–90 (24 ref.)

A criterion of relative degree of chaos or order for open systems. Klimontovich YuL. **Biosystems** 1997; 42(2–3):85–102 (31 ref.)

Biophysical issues at the frontiers of the interpretation of EEG/MEG signals. Lopes da Silva FH. **Electroencephalogr Clin Neurophysiol Suppl** 1996;45:1–7 (28 ref.)

2nd European Biophysics Congress. Orleans, France, July 13–17, 1997. Abstracts. **Eur Biophys J** 1997; 26(1):XI–XVIII, 1–134

Biophysics of the cochlea. II: Stationary nonlinear phenomenology. Nobili R, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2244–55

Viscoelastic property detection by elastic displacement NMR measurements. Lewa CJ, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):652–6

Reliability concept as a trend in biophysics of aging. Koltover VK. **J Theor Biol** 1997 Jan 21;184(2):157–63 (44 ref.)

Notes on the 40th conference of the American Biophysical Society. **Membr Cell Biol** 1997;10(6):717–22

XIIth International Biophysics Congress. Amsterdam, The Netherlands, 11–16 August 1996. Abstracts. **Prog Biophys Mol Biol** 1996;65 Suppl 1:1–240

EDUCATION

Modeling blood flow in vessels with changeable caliber for physiology and biophysics courses. Kozlova EK, et al. **Am J Physiol** 1997 Jun;272(6 Pt 3):S26–30

Do's and don't's of poster presentation. Block SM. **Biophys J** 1996 Dec;71(6):3527–9

Teaching light scattering spectroscopy: the dimension and shape of tobacco mosaic virus [published erratum appears in Biophys J 1997 Mar;72(3):1481] Santos NC, et al. **Biophys J** 1996 Sep;71(3):1641–50

HISTORY

Microtubules: a brief historical perspective. Brinkley W. **J Struct Biol** 1997 Mar;118(2):84–6 (35 ref.)

INSTRUMENTATION

A cost-effective, accurate machine for testing the torsional strength of sheep long bones. Jämsä T, et al. **Med Eng Phys** 1996 Jul;18(5):433–5

A new in vitro measurement technique for small three-dimensional joint motion and its application to the sacroiliac joint. Wang M, et al. **Med Eng Phys** 1996 Sep; 18(6):495–501

A new system for three-dimensional kinematic trajectory acquisition and analysis—I. The application of an ultrasonic technique to human gait analysis. Zejie Y, et al. **Med Eng Phys** 1996 Jul;18(5):420–6

[Physical 3-dimensional testing of the lumbar spine using the IsoStation B-200] Nissan M, et al. **Harefuah** 1996 Oct; 131(7–8):222–7, 296 (Eng. Abstr.) **(Heb)**

METHODS

An improved fit to Website osmotic pressure data [letter] Cohen JA, et al. **Biophys J** 1997 Sep;73(3):1689–94

Advances in sedimentation velocity analysis. Laue TM. **Biophys J** 1997 Jan;72(1):395–6

Total internal reflection fluorescence: applications in cellular biophysics. Thompson NL, et al. **Curr Opin Biotechnol** 1997 Feb;8(1):58–64 (64 ref.)

A new system for three-dimensional kinematic trajectory acquisition and analysis—II. Digital orthogonal integration phase-detection technique. Zejie Y, et al. **Med Eng Phys** 1996 Jul;18(5):427–32

Long-lifetime metal-ligand complexes as probes in biophysics and clinical chemistry. Terpetschnig E, et al. **Methods Enzymol** 1997;278:295–321 (49 ref.)

Fluorescence in biophysics: accomplishments and deficiencies. Weber G. **Methods Enzymol** 1997;278:1–15 (18 ref.)

Detection of animal tissue thickness using simple vertical electric sounding (VES). Gonzalez CA, et al. **Physiol Meas** 1997 Feb;18(1):85–91

Functional and idling rotatory motion within F1-ATPase. Sabbert D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4401–5

Optical evanescent wave methods for the study of biomolecular interactions. Garland PB. **Q Rev Biophys** 1996 Feb;29(1):91–117 (80 ref.)

TRENDS

Medical physics is alive and well and growing in South East Asia. Ng K, et al. **Australas Phys Eng Sci Med** 1997 Mar; 20(1):27–32

BIOPOLYMERS

Adsorption behaviour of amphiphilic polymers at hydrophobic surfaces: effects on protein adsorption. Freij-Larsson C, et al. **Biomaterials** 1996 Nov; 17(22):2199–207

Stability study of nanoparticles of poly(epsilon-caprolactone), poly(D,L-lactide) and poly(D,L-lactide-co-glycolide). Lemoine D, et al. **Biomaterials** 1996 Nov;17(22):2191–7

Gamma sterilization of UHMWPE articular implants: an analysis of the oxidation problem. Ultra High Molecular Weight Poly Ethylene. Premnath V, et al. **Biomaterials** 1996 Sep;17(18):1741–53

Composite poly(2-hydroxyethyl methacrylate) membranes as rate-controlling barriers for transdermal applications. Sun YM, et al. **Biomaterials** 1997 Apr;18(7):527–33

Rate-controlling biopolymer membranes as transdermal delivery systems for nifedipine: development and in vitro evaluations. Thacharodi D, et al. **Biomaterials** 1996 Jul; 17(13):1307–11

Imaging of individual biopolymers and supramolecular assemblies using noncontact atomic force microscopy. McIntire TM, et al. **Biopolymers** 1997 Aug;42(2):133–46

Piezoelectricity of biopolymers. Fukada E. **Biorheology** 1995 Nov–Dec;32(6):593–609 (25 ref.)

Fabrication of pliable biodegradable polymer foams to engineer soft tissues. Wake MC, et al. **Cell Transplant** 1996 Jul–Aug;5(4):465–73

Blood-flow sensing by anionic biopolymers. Siegel G, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):207–13

Effect of Cu(2+)-ions on semiconductor properties of synthetic DOPA melanin polymer. Jastrzebska MM, et al. **J Biomater Sci Polym Ed** 1996;7(9):781–93

Thio-induced oligomerization of alpha-lactalbumin at high pressure. Jegouic M, et al. **J Protein Chem** 1996 Aug; 15(6):501–9

Smectic ordering in solutions and films of a rod-like polymer owing to monodispersity of chain length. Yu SM, et al. **Nature** 1997 Sep 11;389(6647):167–70

Natural and unnatural answers to evolutionary questions. Conrad RC, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7126–8 (23 ref.)

Importance of the release of strand 1C to the polymerization mechanism of inhibitory serpins. Chang WS, et al. **Protein Sci** 1997 Jan;6(1):89–98

Efficacy of a prevascularized expanded polytetrafluoroethylene solid support system as a transplantation site for pancreatic islets. De Vos P, et al. **Transplantation** 1997 Mar 27;63(6):824–30

[Polymer-supported synthesis of biopolymers--foundations and applications] Geckeler KE, et al. **Naturwissenschaften** 1996 Nov;83(11):498–513 (Eng. Abstr.) **(Ger)**

ANALYSIS

Membrane preconcentration-capillary electrophoresis-mass spectrometry in the analysis of biologically derived metabolites and biopolymers. Naylor S, et al. **Biomed Chromatogr** 1996 Nov–Dec;10(6):325–30

A novel geometry mass spectrometer, the Q-TOF, for low-femtomole/attomole-range biopolymer sequencing. Morris HR, et al. **J Protein Chem** 1997 Jul;16(5):469–79

BIOSYNTHESIS

The hinge as a spacer contributes to covalent assembly and is required for function of IgG. Coloma MJ, et al. **J Immunol** 1997 Jan 15;158(2):733–40

Cloning and characterization of a cDNA coding for Candida albicans polyubiquitin [published erratum appears in J Med Vet Mycol 1996 Nov–Dec;34(6):434] Sepulveda P, et al. **J Med Vet Mycol** 1996 Sep–Oct;34(5):315–22

Inverted Fab2s (IFab2s): engineering and expression of novel, dimeric molecules, with a molecular weight of 100 000. Speck RR, et al. **Mol Immunol** 1996 Oct;33(14):1095–102

Induction of HSP70 and polyubiquitin expression associated with plant virus replication. Aranda MA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15289–93

BLOOD

Impaired actin polymerization and depolymerization in neutrophils from patients with thermal injury. Vindenes HA, et al. **Burns** 1997 Mar;23(2):131–6

CHEMISTRY

Collagen and its interactions with chitosan, III some biological and mechanical properties. Taravel MN, et al. **Biomaterials** 1996 Feb;17(4):451–5

pH-sensitive hydrogels based on non-ionic acrylic copolymers. Vázquez B, et al. **Biomaterials** 1997 Apr; 18(7):521–6

Reconstructing potential energy functions from simulated force-induced unbinding processes. Balsera M, et al. **Biophys J** 1997 Sep;73(3):1281–7

On volume changes accompanying conformational transitions of biopolymers. Chalikian TV, et al. **Biopolymers** 1996 Nov; 39(5):619–26 (45 ref.)

A new method of synthesizing biopolymeric affinity ligands. Chaga GS, et al. **Biotechnol Appl Biochem** 1997 Aug;26 (Pt 1):7–14

Analysis of interacting biopolymer systems by analytical ultracentrifugation. Behlke J, et al. **Eur Biophys J** 1997; 25(5–6):325–32

Triabodies: single chain Fv fragments without a linker form trivalent trimers. Iliades P, et al. **FEBS Lett** 1997 Jun 16; 409(3):437–41

Geometrical factor and physical reasons for its influence on the kinetic and thermodynamic properties of RNA-like heteropolymers. Galzitskaya OV. **Fold Des** 1997; 2(3):193–201

Interplay of J chain and disulfide bonding in assembly of polymeric IgM. Fazel S, et al. **Int Immunol** 1997 Aug; 9(8):1149–58

Affinity chromatography of trypsin using chitosan as ligand support. Shi YC, et al. **J Chromatogr A** 1996 Aug 23; 742(1–2):107–12

Improved processing of selective NMR spectra of biopolymers by separation of noise and signal subspaces through singular-value decomposition. Fedrigo M, et al. **J Magn Reson B** 1996 Nov;113(2):160–6

Coating alginate beads with cross-linked biopolymers: a novel method based on a transacylation reaction. Levy MC, et al. **J Microencapsul** 1996 Mar–Apr;13(2):169–83

Recent advances in vaccine adjuvants: the development of MF59 emulsion and polymeric microparticles. O'Hagan DT, et al. **Mol Med Today** 1997 Feb;3(2):69–75 (47 ref.)

An elementary mode coupling theory of random heteropolymer dynamics. Takada S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2318–21

Origin of the homochirality of biomolecules. Keszthelyi L. **Q Rev Biophys** 1995 Nov;28(4):473–507 (110 ref.)

[Prospects for using mass spectrometric methods for analyzing biopolymer structure. Use and perspectives] Orlov VM, et al. **Mol Biol (Mosk)** 1996 Jul–Aug; 30(4):759–72 (112 ref.) **(Rus)**

GENETICS

An Acanthamoeba polyubiquitin gene and application of its promoter to the establishment of a transient transfection system. Hu Q, et al. **Biochim Biophys Acta** 1997 Mar 20; 1351(1–2):126–36

Stable transfection of Acanthamoeba. Yin J, et al. **Can J Microbiol** 1997 Mar;43(3):239–44

Polyubiquitin is a new phenotypic marker of contractile vascular smooth muscle cells. Adam PJ, et al. **Cardiovasc Res** 1997 Feb;33(2):416–21

Comparison of the 5' upstream region of the evolutionarily equivalent polyubiquitin gene of humans and Chinese hamsters. Nenoi M, et al. **Gene** 1996 Nov 14;179(2):297–9

Allelic variation of the polyubiquitin gene in the tobacco hawkmoth, Manduca sexta, and its regulation by heat shock and programmed cell death. Myer A, et al. **Insect Biochem Mol Biol** 1996 Dec;26(10):1037–46

Genetic mapping of members of the polyubiquitin gene subfamily coding for UbB. Voss GC, et al. **Mamm Genome** 1996 Feb;7(2):169

Identification of a new cis-regulatory element in a Nicotiana tabacum polyubiquitin gene promoter. Plesse B, et al. **Mol Gen Genet** 1997 Apr 16;254(3):258–66

UBI4, the polyubiquitin gene of Saccharomyces cerevisiae, is a heat shock gene that is also subject to catabolite derepression control. Watt R, et al. **Mol Gen Genet** 1997 Jan 27;253(4):439–47

Molecular evolution and phylogenetic utility of the polyubiquitin locus in mammals and higher vertebrates. Vrana PB, et al. **Mol Phylogenet Evol** 1996 Oct;6(2):259–69

Heat-shock inducible polyubiquitin gene UbI undergoes alternative initiation and alternative splicing in mature chicken testes. Mezquita J, et al. **Mol Reprod Dev** 1997 Apr;46(4):471–5

Independent modulation of Arabidopsis thaliana polyubiquitin mRNAs in different organs and in response to environmental changes. Sun CW, et al. **Plant J** 1997 May;11(5):1017–27

A model for the evolution of polyubiquitin genes from the study of Arabidopsis thaliana ecotypes. Sun CW, et al. **Plant Mol Biol** 1997 Jul;34(5):745–58

METABOLISM

Analysis of the affinity of each haptoglobin polymer for hemoglobin by two-dimensional affinity electrophoresis. Okazaki T, et al. **Clin Chim Acta** 1997 Feb 17;258(2):137–44

Polyubiquitin up-regulation in corpora lutea of prostaglandin-treated ewes. Murdoch WJ, et al. **Endocrinology** 1996 Dec;137(12):following 5718; 4526–9

Polyubiquitin up-regulation in corpora lutea of prostaglandin-treated ewes. Murdoch WJ, et al. **Endocrinology** 1996 Oct;137(10):4526–9

Polyubiquitination and proteasomal degradation of the p185c-erbB-2 receptor protein-tyrosine kinase induced by geldanamycin. Mimnaugh EG, et al. **J Biol Chem** 1996 Sep 13;271(37):22796–801

In vitro assessment of the biological activity of basic fibroblast growth factor released from various polymers and biomatrices. Davies MJ, et al. **J Biomater Appl** 1997 Jul;12(1):31–56

A biopolymer by any other name would bind as well: a comparison of the ligand-binding pockets of nucleic acids and proteins. Marshall KA, et al. **Structure** 1997 Jun 15; 5(6):729–34 (29 ref.)

BIOPOLYMERS

PHARMACOLOGY

Inhibition of the 26 S proteasome by polyubiquitin chains synthesized to have defined lengths. Piotrowski J, et al. **J Biol Chem** 1997 Sep 19;272(38):23712–21

[Gapkol—a new osteoplastic material] Aboiants RK, et al. **Stomatologiia (Mosk)** 1996;75(5):23–5 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Molecular wring resonances in chain molecules. Bohr H, et al. **Bioelectromagnetics** 1997;18(2):187–9

THERAPEUTIC USE

Safety and efficacy of Virend for topical treatment of genital and anal herpes simplex lesions in patients with AIDS. Orozco–Topete R, et al. **Antiviral Res** 1997 Jul;35(2):91–103

BIOPROBES see **BIOSENSORS**

BIOPROSTHESIS

Double-balloon dilatation of a stenosed bioprosthetic tricuspid valve in repaired tetralogy of Fallot. Benito F, et al. **Am Heart J** 1996 Oct;132(4):891–2

Estimation of pulmonary artery pressure by spectral analysis of the second heart sound. Chen D, et al. **Am J Cardiol** 1996 Oct 1;78(7):785–9

Nonfatal stent fracture in porcine Wessex xenografts implanted in the mitral position. Ius P, et al. **Am J Cardiol** 1996 Oct 15;78(8):972–3

Steady flow velocity field and turbulent stress mappings downstream of a porcine bioprosthetic aortic valve in vitro. Lim WL, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):86–95

Myocardial preservation, redox potential maintenance and oxidant injury by heparin–coated Carmeda circuit. Rao PS, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:511–3

No-react detoxification process: a superior anticalcification method for bioprostheses. Abolhoda A, et al. **Ann Thorac Surg** 1996 Dec;62(6):1724–30

Fate of trileaflet equine pericardial extracardiac conduit used for the correction of anomalies having pulmonic ventricle–pulmonary arterial discontinuity. Ando M, et al. **Ann Thorac Surg** 1997 Jul;64(1):154–8

Aortic valve replacement with a pericardial bioprosthesis [letter; comment] Carpentier AF. **Ann Thorac Surg** 1997 Feb;63(2):599–600. Comment on: Ann Thorac Surg 1995 Dec;60(6):1836–44.

Twenty-year clinical experience with porcine bioprostheses. Fann JI, et al. **Ann Thorac Surg** 1996 Nov;62(5):1301–11; discussion 1311–2

Refinement of the alpha aminooleic acid bioprosthetic valve anticalcification technique. Gott JP, et al. **Ann Thorac Surg** 1997 Jul;64(1):50–8

Supplement: proceedings of the VI International Symposium on Cardiac Bioprostheses [letter; comment] Jamieson WR. **Ann Thorac Surg** 1997 Jul;64(1):293–4. Comment on: Ann Thorac Surg 1996 Sep;62(3):940–1.

Dynamic evaluation of the 21-mm Medtronic Intact aortic bioprosthesis by dobutamine echocardiography. Kadir I, et al. **Ann Thorac Surg** 1997 Apr;63(4):1128–32

Results of valve replacement with mechanical and biological prostheses in chronic renal dialysis patients. Lucke JC, et al. **Ann Thorac Surg** 1997 Jul;64(1):129–32; discussion 132–3

Hemodynamic performance of small aortic valve bioprostheses: is there a difference? McDonald ML, et al. **Ann Thorac Surg** 1997 Feb;63(2):362–6

Medtronic intact porcine bioprosthesis [letter; comment] Odell JA. **Ann Thorac Surg** 1997 Apr;63(4):1218–9. Comment on: Ann Thorac Surg 1996 Sep;62(3):940–1.

Calcification in cardiac bioprostheses [letter; comment] Schroll A. **Ann Thorac Surg** 1997 May;63(5):1514–5. Comment on: Ann Thorac Surg 1995 Aug;60(2 Suppl):S332–8.

Aortic valve replacement with patch enlargement of the aortic annulus. Sommers KE, et al. **Ann Thorac Surg** 1997 Jun;63(6):1608–12

Stent fracture in Wessex porcine heart valve bioprostheses. Hurlé A, et al. **Artif Organs** 1997 Feb;21(2):116–20

Transluminal aortic valve placement. A feasibility study with a newly designed collapsible aortic valve. Moazami N, et al. **ASAIO J** 1996 Sep–Oct;42(5):M381–5

Nonaldehyde sterilization of biologic tissue for use in implantable medical devices. Moore MA, et al. **ASAIO J** 1997 Jan–Feb;43(1):23–30

A new biologic membrane in cardiovascular surgery. Shawarby AO, et al. **ASAIO J** 1997 May–Jun;43(3):160–2

Fate of middle ear implants. Ogale SB, et al. **Auris Nasus Larynx** 1997 Apr;24(2):151–7

Shelf-life of bioprosthetic heart valves: a structural and mechanical study. Julien M, et al. **Biomaterials** 1997 Apr; 18(8):605–12

Methods for the treatment of collagenous tissues for bioprostheses. Khor E. **Biomaterials** 1997 Jan;18(2):95–105 (110 ref.)

Extrusion of BOP-B graft orally following anterior cervical discectomy and fusion. Cavanagh SP, et al. **Br J Neurosurg** 1996 Aug;10(4):417–8

Processed bovine pericardium as patch angioplasty for carotid endarterectomy: a preliminary report. Biasi GM, et al. **Cardiovasc Surg** 1996 Oct;4(5):591–5

Cardiac surgery in the ninth decade of life. Glock Y, et al. **Cardiovasc Surg** 1996 Apr;4(2):241–5

The stentless Bravo 300 aortic porcine xenograft: supra-annular versus annular implantation. Hvass U, et al. **Cardiovasc Surg** 1997 Apr;5(2):220–4

Pantaloon vein graft technique in tibial revascularization with arteriovenous fistula for limb salvage. Sogaro F, et al. **Cardiovasc Surg** 1996 Jun;4(3):377–80

A technique for the creation of long autogenous tissue arterial patches. Solis MM, et al. **Cardiovasc Surg** 1996 Aug; 4(4):509–11

The stentless Toronto SPV bioprosthesis for aortic valve replacement. Walther T, et al. **Cardiovasc Surg** 1996 Aug; 4(4):536–42

Percutaneous bailout therapy of a perforated vein graft using a stent-autologous vein patch [see comments] Colon PJ 3rd, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):175–8. Comment in: Cathet Cardiovasc Diagn 1995 Jun;38(2):179.

Bioprosthetic versus mechanical prostheses for aortic valve replacement in the elderly. Davis EA, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II121–5

Prevention of bioprosthetic heart valve calcification by ethanol preincubation. Efficacy and mechanisms [see comments] Vyavahare N, et al. **Circulation** 1997 Jan 21; 95(2):479–88. Comment in: Circulation 1997 Jan 21;95(2):297–8.

Microbiological cultures of heart valves and valve tags are not valuable for patients without infective endocarditis who are undergoing valve replacement. Giladi M, et al. **Clin Infect Dis** 1997 May;24(5):884–8

Advances in surgical treatment of acquired valve disease [published erratum appears in Curr Opin Cardiol 1996 Jul;11(4):454] Antunes MJ, et al. **Curr Opin Cardiol** 1996 Mar;11(2):139–54 (111 ref.)

The Denolin Lecture 1996. Mechanical heart valves. Conclusions from long-term follow-up. Nitter-Hauge S. **Eur Heart J** 1997 Jun;18(6):907–10 (17 ref.)

Pericardial valves in small aortic annuli: ten years' results. Aupart M, et al. **Eur J Cardiothorac Surg** 1996; 10(10):879–83

Long-term results of surgery for active infective endocarditis. d'Udekem Y, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):46–52

Valve-in-valve or super imposition of mechanical valves on impacted bioprostheses [letter] Al Ebrahim K. **Eur J Cardiothorac Surg** 1997 Jul;12(1):162–3

Endothelialized biological heart valve prostheses in the non-human primate model. Lehner G, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):498–504

The risk of stroke in the early postoperative period following mitral valve replacement. Orszulak TA, et al. **Eur J Cardiothorac Surg** 1995;9(11):615–9 discuss 620

The influence of free hand suturing technique and zero pressure fixation on the hydrodynamic function of aortic root and aortic valve leaflets. Revanna P, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):280–6

Ross procedure in congenital patients: results and left ventricular function. Rubay JE, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):92–9

Risk factors for early degeneration of allografts in pulmonary circulation. Schorn K, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):62–9

Stentless porcine bioprostheses for all types of aortic root pathology. Sidiropoulos A, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):917–21

Emergency surgery for acute infective aortic valve endocarditis: performance of cryopreserved homografts and mode of failure. Vogt PR, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):53–61

Valve replacement with the ATS open pivot bileaflet prosthesis. Westaby S, et al. **Eur J Cardiothorac Surg** 1996; 10(8):660–5

The in vitro construction of a tissue engineered bioprosthetic heart valve. Zund G, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):493–7

The behavior of different types of polytetrafluoroethylene (PTFE) prostheses in the reparative scarring process of abdominal wall defects. Buján J, et al. **Histol Histopathol** 1997 Jul;12(3):683–90

Spectral characterization and classification of Carpentier-Edwards heart valves implanted in the aortic position. Sava HP, et al. **IEEE Trans Biomed Eng** 1996 Oct;43(10):1046–8

Bioprosthetic valve endocarditis caused by Neisseria elongata subspecies nitroreducens. Meuleman P, et al. **Infection** 1996 May–Jun;24(3):258–60

A new in vitro test method for calcification of bioprosthetic heart valves. Glasmacher B, et al. **Int J Artif Organs** 1997 May;20(5):267–71

Percutaneous balloon valvuloplasty of stenosed mitral bioprosthesis. Lip GY, et al. **Int J Cardiol** 1997 Mar; 59(1):97–100

Aortic valve replacement with a stentless porcine bioprosthesis (TSPV). Goldman BS, et al. **Isr J Med Sci** 1996 Oct;32(10):846–8

Accuracy of transesophageal echocardiography in preoperative determination of aortic anulus size during valve replacement. Abraham TP, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):149–54

Detection of thrombotic cuspal obstruction of an aortic bioprosthesis with transesophageal echocardiography. Capodilupo RC, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):685–8

Bioprosthetic mitral valve thrombosis: clinical profile, transesophageal echocardiographic features, and follow-up after anticoagulant therapy. Oliver JM, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):691–9

Characterization of normal leakage flow of monostrut tilting disk prosthetic mitral valves by multiplane transesophageal echocardiography. Temesvari A, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):155–8

Influence of polyethylene glycol graftings on the in vitro degradation and calcification of bovine pericardium. Vasudev SC, et al. **J Biomater Appl** 1997 Apr;11(4):430–52

Differential calcification of cusps and aortic wall of failed stented porcine bioprosthetic valves. Biedrzycki LM, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):411–5

Osseointegration in cortical sheep bone of calcium phosphate implants evaluated by PIXE method and histology. Braye F, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):315–24

Material-induced up-regulation of leukocyte CD11b during whole blood contact: material differences and a role for complement. Gemmell CH, et al. **J Biomed Mater Res** 1996 Sep;32(1):29–35

Glass peek composite promotes proliferation and osteocalcin production of human osteoblastic cells. Lin TW, et al. **J Biomed Mater Res** 1997 Aug;36(2):137–44

Shrinkage temperature versus protein extraction as a measure of stabilization of photooxidized tissue. Moore MA, et al. **J Biomed Mater Res** 1996 Oct;32(2):209–14

Comparison of elasticities of components of a cardiac bioprosthesis leaflet. Páez JM, et al. **J Biomed Mater Res** 1996 Jan;30(1):47–52

Surface adsorption and fibrinogen interactions with hirudin-thrombin complex. Patel R, et al. **J Biomed Mater Res** 1996 Sep;32(1):11–8

Performance of small diameter synthetic vascular prostheses with confluent autologous endothelial cell linings. Poole-Warren LA, et al. **J Biomed Mater Res** 1996 Feb; 30(2):221–29

Assessment of bioactivity for orthopedic coatings in a gap-healing model. Sakkers RJ, et al. **J Biomed Mater Res** 1997 Aug;36(2):265–73

Experimental study of the antithrombogenic behavior of Dacron vascular grafts coated with hydrophilic acrylic copolymers bearing salicylic acid residues. San Román J, et al. **J Biomed Mater Res** 1996 Sep;32(1):19–27

Studies on epoxy compound fixation. Sung HW, et al. **J Biomed Mater Res** 1996 Fall;33(3):177–86

Effects of growth-factor-enhanced culture on a chondrocyte-collagen implant for cartilage repair. Toolan BC, et al. **J Biomed Mater Res** 1996 Jun;31(2):273–80

A continuous suture technique for mechanical or bioprosthetic aortic valve replacement. Ricchi A, et al. **J Card Surg** 1996 Jan–Feb;11(1):68–70

Apico-aortic shunt: a support technique during surgery on the descending thoracic aorta. Kuribayashi R, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):271–6

Mitral valve replacement with total preservation of native valve and subvalvular apparatus. Aagaard J, et al. **J Heart Valve Dis** 1997 May;6(3):274–8; discussion 279–80

Cineradiographic evaluation of ATS open pivot bileaflet valves. Aoyagi S, et al. **J Heart Valve Dis** 1997 May; 6(3):258–63

Hemodynamic characterization of the CarboMedics mitral valve prosthesis. Bjørnerheim R, et al. **J Heart Valve Dis** 1997 Mar;6(2):115–22

Hemodynamic performance of the Edwards Prima stentless valve. Bortolotti U, et al. **J Heart Valve Dis** 1997 Mar; 6(2):134–7

The wisdom of repairing stenotic mitral lesions [editorial; comment] Duran CM. **J Heart Valve Dis** 1997 Jul; 6(4):375–6. Comment on: J Heart Valve Dis 1997 Jul;6(4):370–2.

Calcific degeneration of bioprosthetic aortic valves in patients receiving steroid therapy. Eishi K, et al. **J Heart Valve Dis** 1996 Nov;5(6):668–72

In vitro endothelialization of bioprosthetic heart valves. Fischlein T, et al. **J Heart Valve Dis** 1996 Jan;5(1):58–65

Comparison of magnetic resonance imaging and Laser Doppler Anemometry velocity measurements downstream of replacement heart valves: implications for in vivo assessment of prosthetic valve function. Fontaine AA, et al. **J Heart Valve Dis** 1996 Jan;5(1):66–73

Amide cross-linking: an alternative to glutaraldehyde fixation. Girardot JM, et al. **J Heart Valve Dis** 1996 Sep; 5(5):518–25

Wear patterns in the Sorin Bicarbon mechanical heart valve: a clinical explant study. Hasenkam JM, et al. **J Heart Valve Dis** 1997 Mar;6(2):105–14

Tears in bioprosthetic heart valve leaflets without calcific degeneration. Haziza F, et al. **J Heart Valve Dis** 1996 Jan; 5(1):35–9

Tricuspid valve replacement subsequent to previous open heart surgery. Hornick P, et al. **J Heart Valve Dis** 1996 Jan;5(1):20–5

Hemodynamic evaluation of 23 mm Pericarbon and 23 mm Hancock II bioprostheses in the aortic position at mid-term follow up. Ius P, et al. **J Heart Valve Dis** 1996 Nov; 5(6):656–61

Low-profile porcine bioprosthesis (Liotta): pathologic findings and mode of failure in the long-term. Ius P, et al. **J Heart Valve Dis** 1996 May;5(3):323–7

Hemodynamics of St. Jude Medical prostheses in the small aortic root: in vivo studies using dobutamine Doppler echocardiography. Kadir I, et al. **J Heart Valve Dis** 1997

Mar;6(2):123–9
The use of enzyme activated milk for in vitro simulation of prosthetic valve thrombosis. Keggen LA, et al. **J Heart Valve Dis** 1996 Jan;5(1):74–83
Choice of replacement valve in the elderly. Kobayashi Y, et al. **J Heart Valve Dis** 1997 Jul;6(4):404–9
Hemodynamic performance of the Edwards Prima stentless valve [letter] Konertz W. **J Heart Valve Dis** 1997 Jul; 6(4):441–2
Tricuspid and pulmonary valve replacement in carcinoid heart disease: two case reports and a review of the literature. Konstantinov IE, et al. **J Heart Valve Dis** 1997 Mar;6(2):193–7 (35 ref.)
Formaldehyde replaces glutaraldehyde in porcine bioprosthetic heart valves [see comments] McClurg WM, et al. **J Heart Valve Dis** 1996 May;5(3):343–7. Comment in: J Heart Valve Dis 1997 May;6(3):327–8.
In vivo and in vitro models of calcification in porcine aortic valve cusps. Mako WJ, et al. **J Heart Valve Dis** 1997 May; 6(3):316–23 (37 ref.)
In response to "Formaldehyde Replaces Glutaraldehyde in Porcine Bioprosthetic Heart Valves" [letter; comment] Moore MA, et al. **J Heart Valve Dis** 1997 May;6(3):327–8 . Comment on: J Heart Valve Dis 1996 May;5(3):343–7.
Aortic and mitral valve replacement with the Carpentier–Edwards pericardial bioprosthesis: 10–year results. Murakami T, et al. **J Heart Valve Dis** 1996 Jan; 5(1):45–9
Severe bioprosthetic tricuspid valve stenosis with systolic antegrade flow across the tricuspid valve. Pai RG, et al. **J Heart Valve Dis** 1996 Jul;5(4):436–8
The influence of sizing and method of fixation on the hydrodynamic function of stentless, free–hand inserted porcine bioprosthesis: an in vitro study. Revanna P, et al. **J Heart Valve Dis** 1997 Jul;6(4):433–8
Early diagnosis of obstructed aortic valve prostheses: a clinical challenge [editorial; comment] Shah PM. **J Heart Valve Dis** 1997 May;6(3):234–5. Comment on: J Heart Valve Dis 1997 May;6(3):236–48.
Proteins and bioprosthetic calcification in the rat model. Shen M, et al. **J Heart Valve Dis** 1996 Jan;5(1):50–7
High–resolution magnetic resonance imaging to characterize the geometry of fatigued porcine bioprosthetic heart valves. Smith DB, et al. **J Heart Valve Dis** 1997 Jul;6(4):424–32 (32 ref.)
The hybrid autograft/xenograft aortic valve [editorial; comment] Vesely I. **J Heart Valve Dis** 1997 May;6(3):292–5 (35 ref.). Comment on: J Heart Valve Dis 1997 May;6(3):296–306.
Carpentier–Edwards supra–annular bioprosthesis in the aortic position. Has altered design affected performance? Wilson ES, et al. **J Heart Valve Dis** 1996 Jan;5(1):40–4
Use of dobutamine stress echocardiography in assessing mechanical aortic prostheses: comparison with exercise echocardiography. Zabalgoitia M, et al. **J Heart Valve Dis** 1997 May;6(3):253–7
Extracellular matrix characterization during healing of full–thickness wounds treated with a collagen/elastin dermal substitute shows improved skin regeneration in pigs. Lamme EN, et al. **J Histochem Cytochem** 1996 Nov; 44(11):1311–22
A comparative study of linear and nonlinear simulations of the leaflets in a bioprosthetic heart valve during the cardiac cycle. Patterson EA, et al. **J Med Eng Technol** 1996 May–Jun;20(3):95–108
Calcification potential of small intestinal submucosa in a rat subcutaneous model. Owen TJ, et al. **J Surg Res** 1997 Aug; 71(2):179–86
Concentration of glutaraldehyde in fixation of bioprosthetic valves [letter] Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):512–3
Viscoelasticity of dynamically fixed bioprosthetic valves. II. Effect of glutaraldehyde concentration. Duncan AC, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):302–10
Twenty–three–year survival of a bovine pericardial bioprosthesis [letter] Oswal D, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1127–8
Extended survival with a porcine mitral valve bioprosthesis [letter] Trujillo JJ, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1407–8
Reconstruction of the mitral annulus with porcine pericardium––report of a case with mitral annular disruption due to staphylococcal endocarditis. Aoyagi S, et al. **Jpn Circ J** 1996 Apr;60(4):258–61
Valve detachment after aortic valve replacement––a successfully reoperated case with the Cabrol technique. Aoyagi S, et al. **Jpn Circ J** 1996 Jun;60(6):377–81
Experimental studies on modified human ureter as an arterial substitution for reconstruction of small caliber vessels. Uematsu M, et al. **Kobe J Med Sci** 1996 Oct;42(5):291–306
Bovine pericardium for dural grafts: clinical results in 35 patients. Anson JA, et al. **Neurosurgery** 1996 Oct; 39(4):764–8
The echo Doppler study of mitral and aortic prostheses function. Zdrenghea D, et al. **Rom J Intern Med** 1996 Jan–Jun;34(1–2):27–32
Carpentier–Edwards bioprosthesis. Experiences of 17 years with analysis of risk factors of early mortality. Fiane AE, et al. **Scand Cardiovasc J** 1997;31(1):39–44
Carpentier pericardial valve. Cosgrove DM. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):269–75 (36 ref.)
Porcine valves: Hancock and Carpentier–Edwards aortic prostheses. Fann JI, et al. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):259–68 (39 ref.)
Is a bioprosthesis preferable in tricuspid valve replacement? Hayashi J, et al. **Thorac Cardiovasc Surg** 1996 Oct; 44(5):230–3
Left ventricular function following conventional mitral valve replacement in patients with chronic mitral regurgitation. Iguchi A, et al. **Tohoku J Exp Med** 1996 Jul;179(3):157–66
[Tricuspid valve replacement: long–term clinical and echocardiographic follow–up] Farinas JM, et al. **Ann Chir** 1996;50(8):707–12 (Eng. Abstr.) **(Fre)**
[The Carpentier–Edwards porcine valve in the supra annular aortic position. Results after 12 years in a series of 1108 patients] Logeais Y, et al. **Arch Mal Coeur Vaiss** 1997 Jun; 90(6):779–88 (Eng. Abstr.) **(Fre)**
[Initial results of mitral valvuloplasty using the Physio–Carpentier–Edwards ring] Sousa Uva M, et al. **Arch Mal Coeur Vaiss** 1997 Jun;90(6):789–95 (29 ref.) (Eng. Abstr.) **(Fre)**
[Diaphragm replacement. An animal experiment study] Steinau G, et al. **Langenbecks Arch Chir** 1997;382(2):74–8 (Eng. Abstr.) **(Ger)**
[Collagen–polydioxanone composite graft as meniscus replacement––an experimental study in the sheep] Metak G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:505–9 (Eng. Abstr.) **(Ger)**
[Heart rupture after mitral valve replacement. Pathologic–anatomic findings] Kuhnen C, et al. **Pathologe** 1997 May;18(3):238–42 (Eng. Abstr.) **(Ger)**
[Femoropoplitea! vascular replacement: vein, ePTFE or ovine collagen?] Koch G, et al. **Zentralbl Chir** 1996; 121(9):761–7 (Eng. Abstr.) **(Ger)**
[Aortic valve replacement with stentless porcine aortic valve] Nakano K, et al. **J Cardiol** 1997;29 Suppl 2:73–8 (Eng. Abstr.) **(Jpn)**
[A case of radical operation for right–sided infective endocarditis due to Pseudomonas aeruginosa concurrent with VSD in the elderly person] Chikazawa G, et al. **Kyobu Geka** 1997 Jun;50(6):483–6 (Eng. Abstr.) **(Jpn)**
[Surgical treatment of aortic stenosis with polycythemia vera: a case report] Matsuyama N, et al. **Kyobu Geka** 1996 Dec; 49(13):1097–9 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Perioperative management in patients with liver cirrhosis undergoing open heart surgery] Ota T, et al. **Kyobu Geka** 1996 Oct;49(11):916–20 (Eng. Abstr.) **(Jpn)**
[Aortic valve replacement with the Toronto stentless porcine valve in a patient with clipping for cerebral arterial aneurysm] Tsukui H, et al. **Kyobu Geka** 1997 Jul; 50(7):565–8 (Eng. Abstr.) **(Jpn)**
[Experimental study on preparation of a blood vessel substitute with a small diameter using human ureter and preserved human saphenous vein] Uematsu M, et al. **Nippon Geka Gakkai Zasshi** 1996 Nov;97(11):1027 **(Jpn)**
[Reoperation for malfunction of Ionescu–Shiley bovine pericardial bioprosthetic valves in the mitral position––special consideration with emergency operation] Abe M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan; 45(1):17–22 (Eng. Abstr.) **(Jpn)**
[Clinical study of re–do surgery after Bentall–type operation] Ando M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):606–13 (Eng. Abstr.) **(Jpn)**
[Third mitral valve replacement––review of clinical aspects and surgical management in 10 cases] Asakura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):614–22 (Eng. Abstr.) **(Jpn)**
[A case of primary tissue failure in aortic bioprosthesis due to pannus formation] Kumano H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):1012–4 (Eng. Abstr.) **(Jpn)**
[Successful aortic root replacement with pulmonary autograft (Ross) in two cases of congenital aortic stenosis] Morita K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr; 45(4):594–600 (Eng. Abstr.) **(Jpn)**
[A case of successful operation of tetralogy of Fallot in a 55–year–old man] Nishimura K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):59–63 (Eng. Abstr.) **(Jpn)**
[Emergent mitral valve replacement in the second trimester of pregnancy] Sudoh Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1034–8 (Eng. Abstr.) **(Jpn)**
[Bioprosthetic valvular dysfunction in mitral position: three cases of commissural detachment] Aoyagi S, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):195–8 (Eng. Abstr.) **(Jpn)**
[Late results of mitral valve replacement with porcine bioprosthesis] Aoyagi S, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):343–6 (Eng. Abstr.) **(Jpn)**
[The porcine bioprosthetic valve in mitral positions: ten years later] Furuta S. **Rinsho Kyobu Geka** 1989 Aug;9(4):347–50 (Eng. Abstr.) **(Jpn)**
[Anatomo–clinical correlation. Case 3/96 (Instituto do Coração do Hospital das Clínicas–FMUSP)] **Arq Bras Cardiol** 1996 Jul;67(1):31–4 **(Por)**
[Results of aortic stenosis surgery in patients with severe ventricular dysfunction] Pomerantzeff PM, et al. **Arq Bras Cardiol** 1996 Dec;67(6):375–8 (Eng. Abstr.) **(Por)**
[Changes in biomechanical properties of biological and synthetic prostheses] Reichert V, et al. **Khirurgiia (Mosk)** 1997;(4):29–35 (Eng. Abstr.) **(Rus)**
[Dynamic and cinematic evaluation of the function of bioprosthesis in the aortic position: tester of cardiac valves] Bustamante J, et al. **Arch Inst Cardiol Mex** 1996 May–Jun; 66(3):229–43 (Eng. Abstr.) **(Spa)**
[Bovine pericardium prostheses (letter; comment)] Gutiérrez Samperio C. **Rev Invest Clin** 1996 May–Jun;48(3):245–6. Comment on: Rev Invest Clin 1995 Nov–Dec;47(6):439–46. **(Spa)**
[Repair of thoracoabdominal wall defects in dogs using a bovine pericardium bioprosthesis (see comments) (published erratum appears in Rev Invest Clin 1996 May–Jun;48(3):245–6)] Santillán–Doherty P, et al. **Rev Invest Clin** 1995 Nov–Dec;47(6):439–46 (Eng. Abstr.) . Comment in: Rev Invest Clin 1996 May–Jun;48(3):245–6. **(Spa)**

ADVERSE EFFECTS

Postoperative mitral valve abscess. A case report. Pamidi S, et al. **Angiology** 1997 Aug;48(8):749–52
Is the dog a useful model for accelerated calcification study of cardiovascular bioprostheses? Chanda J, et al. **Artif Organs** 1997 May;21(5):391–5
Regional distribution of calcification in aortic valve cusps. An in vivo study. Mako WJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M365–7
Complement activation is involved in the structural deterioration of bovine pericardial bioprosthetic heart valves. Moczar M, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M375–81
Biochemical pathways of tissue degeneration in bioprosthetic cardiac valves. The role of matrix metalloproteinases. Simionescu A, et al. **ASAIO J** 1996 Sep–Oct;42(5):M561–7
Osteopontin is associated with bioprosthetic heart valve calcification in humans. Shen M, et al. **C R Acad Sci III** 1997 Jan;320(1):49–57
Late failure of surgical treatment for bioprosthetic valve endocarditis due to Candida tropicalis. Mansur AJ, et al. **Clin Infect Dis** 1996 Feb;22(2):380–1
Influence of age on valve related events with Carpentier–Edwards pericardial bioprosthesis. Aupart M, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):929–34
Surgical approach for replacement of degenerated mitral bioprostheses [letter] Mazzucco A, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):329–31
Carcinogenicity of CoCrMo (F–75) implants in the rat. Bouchard PR, et al. **J Biomed Mater Res** 1996 Sep; 32(1):37–44
Acute thrombogenicity of intact and injured natural blood conduits versus synthetic conduits: neutrophil, platelet, and fibrin(ogen) adsorption under various shear–rate conditions. Merhi Y, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):477–85
Tumor necrosis factor–alpha and interleukin–6 release from white blood cells induced by different graft materials in vitro are affected by pentoxifylline and iloprost. Swartbol P, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):400–6
Position–related factors in mitral and tricuspid bioprostheses degenerative changes. Leprince P, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):223–6
Increased cellular expression of matrix proteins that regulate mineralization is associated with calcification of native human and porcine xenograft bioprosthetic heart valves. Srivatsa SS, et al. **J Clin Invest** 1997 Mar 1;99(5):996–1009
[Early thrombosis of aortic porcine bioprosthesis] Gutiérrez Morlote J, et al. **Rev Esp Cardiol** 1996 Oct;49(10):773–5 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Stentless aortic valve replacement with the biocor prosthesis: indications and outcome. Achtelik M, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S314–6
The small aortic root and the Medtronic Hall valve: ultrafast computed tomography assessment of left ventricular mass following aortic valve replacement. Anderson WA, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S329–35
Double valve replacement with the Carpentier–Edwards pericardial valve: 10–year results. Aupart MR, et al. **J Heart Valve Dis** 1996 May;5(3):312–6
Doppler echocardiographic study of three different mechanical valves in the aortic position: the use of external nominal diameter indexed to body surface area [see comments] Bailly P, et al. **J Heart Valve Dis** 1997 May; 6(3):236–48. Comment in: J Heart Valve Dis 1997 May;6(3):234.
Doppler–echocardiographic assessment of the carbomedics supra–annular 'Top–Hat' prosthetic heart valve in the aortic position. de Brux JL, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S336–8
Hemodynamic performances of small diameter carbomedics and St. Jude valves. De Paulis R, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S339–43
Postoperative hemodynamics of two bileaflet heart valves in the aortic position. Flameng W, et al. **J Heart Valve Dis** 1997 May;6(3):269–73
The influence of the design on the medium to long–term hemodynamic behavior of 19 mm pericardial aortic valve prostheses. Gonzalez–Juanatey JR, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S317–23
Aortic valve replacement in elderly women with small aortic roots: comparing sorin pericardial and St.Jude Medical mechanical valves. Mahon BD, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S324–8

BIOPROSTHESIS

Immunoglobulins and complement deposits in mitroflow pericardial bioprosthetic heart valves--a contributing factor to structural deterioration. Moczar M, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S276–83

Small aortic root in the elderly: use of stentless bioprosthesis. Sintek CF, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S308–13

Six-and-half years' experience with the St. Jude BioImplant porcine prosthesis. Triggiani M, et al. **J Heart Valve Dis** 1997 Mar;6(2):138–44

Discrepancy of sizers for conventional and stentless aortic valve implants. Walther T, et al. **J Heart Valve Dis** 1997 Mar;6(2):145–8

Stentless bioprostheses for the small aortic root. Walther T, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S302–7

The CryoLife-O'Brien composite stentless porcine aortic xenograft valve in 118 patients. Garlick RB, et al. **Jpn Circ J** 1997 Aug;61(8):682–6

Prosthetic heart valves [letter; comment] Walther T, et al. **N Engl J Med** 1997 Jan 16;336(3):222; discussion 223–4. Comment on: N Engl J Med 1996 Aug 8;335(6):407–16.

METHODS

Porcine mitral stentless valve mid-term clinical results. Vrandecic M, et al. **Eur J Cardiothorac Surg** 1997 Jul; 12(1):56–62

Feasibility evaluation of a new pericardial bioprosthesis with dye mediated photo-oxidized bovine pericardial tissue. Bianco RW, et al. **J Heart Valve Dis** 1996 May;5(3):317–22

Repopulation of freeze-dried porcine valves with human fibroblasts and endothelial cells [see comments] Curtil A, et al. **J Heart Valve Dis** 1997 May;6(3):296–306. Comment in: J Heart Valve Dis 1997 May;6(3):292.

Improving methods of chordal-sparing mitral valve replacement--Part III: Optimal direction for artificial chordae. Komeda M, et al. **J Heart Valve Dis** 1996 Sep; 5(5):484–90

Biocompatibility and immunologic properties of pericardial tissue stabilized by dye-mediated photooxidation. Moore MA, et al. **J Heart Valve Dis** 1997 May;6(3):307–15

New-generation valved conduit: an experimental study. Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Aug; 114(2):218–23

Use of a bovine jugular vein graft with natural valve for right ventricular outflow tract reconstruction: a one-year animal study. Ichikawa Y, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):224–33

MORTALITY

Long-term relative survival after primary heart valve replacement. Ståhle E, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):81–91

Poor clinical performance of the Wessex porcine heart valve bioprosthesis at nine years' follow up. Hurlé A, et al. **Heart** 1997 Apr;77(4):319–24

[Surgical results of valve replacement with porcine bioprostheses] Saigenji H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):634–40 (Eng. Abstr.) **(Jpn)**

NURSING

The Ross procedure for replacement of diseased aortic valves. Bower JO. **AORN J** 1996 Dec;64(6):966, 969–72

STANDARDS

A mechanism for the decrease in stiffness of bioprosthetic heart valve tissues after cross-linking. Vesely I. **ASAIO J** 1996 Nov-Dec;42(6):993–9

Analysis of 274 Omniflow Vascular Prostheses implanted over an eight-year period. Koch G, et al. **Aust N Z J Surg** 1997 Sep;67(9):637–9

Glutaraldehyde as a fixative in bioprostheses and drug delivery matrices. Jayakrishnan A, et al. **Biomaterials** 1996 Mar;17(5):471–84 (169 ref.)

Quality control of bioprosthetic heart valves by means of holographic interferometry. Deiwick M, et al. **J Heart Valve Dis** 1996 Jul;5(4):441–7; discussion 439–40

Shop order fracture rate as a risk factor for strut fracture in Björk-Shiley CC60 degrees heart valves. Walker AM, et al. **J Heart Valve Dis** 1997 May;6(3):264–7; discussion 268

Discrepancy of sizers for conventional and stentless aortic valve implants. Walther T, et al. **J Heart Valve Dis** 1997 Mar;6(2):145–8

STATISTICS & NUMERICAL DATA

Censored lifetime data in adaptive neural networks. Katz AS, et al. **J Heart Valve Dis** 1996 Jan;5(1):84–9

BIOPSY

Results of in vitro contracture testing of both parents of malignant hyperthermia susceptible probands. Islander G, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):579–84

Brush cytology and biopsy in the diagnosis of colorectal cancer. A comparison. Halpern M, et al. **Acta Cytol** 1997 May-Jun;41(3):628–32

Fine needle aspiration biopsy of breast lesions and histopathologic correlation. An analysis of 837 cases in four years. Rocha PD, et al. **Acta Cytol** 1997 May-Jun; 41(3):705–12

Cytohistologic correlation of nuclear grade in breast carcinoma. Zoppi JA, et al. **Acta Cytol** 1997 May-Jun; 41(3):701–4

Clinical usefulness of biopsy in giant cell arteritis. Skaug TR, et al. **Acta Ophthalmol Scand** 1995 Dec;73(6):567–70

Utility and safety of parotid gland biopsy in Sjögren's syndrome. Biasi D, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):896–9

Mammographic changes after excisional breast biopsy for benign disease. Brenner RJ, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1047–52

Endometrial biopsy. Shelly MS. **Am Fam Physician** 1997 Apr; 55(5):1731–6 (38 ref.)

Demonstration of the proliferation marker Ki-67 in renal biopsies: correlation to clinical findings. Nabokov A, et al. **Am J Kidney Dis** 1997 Jul;30(1):87–97

Deep loop excision for prehysterectomy endocervical evaluation. Bennett BB, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):82–6

A stereotactic stand-off [editorial] Norton LW. **Am J Surg** 1997 Mar;173(3):151–2

Avoiding sampling error in the biopsy of pigmented lesions [editorial; comment] Stevens G, et al. **Arch Dermatol** 1996 Nov;132(11):1380–2. Comment on: Arch Dermatol 1996 Nov;132(11):1297–1302.

Validity of clinic biopsy specimens in classifying histopathologic characteristics of recurrent nasopharyngeal carcinoma. Brown JJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):950–5

Stereotactic 14 gauge core-biopsy of the breast: results from 101 patients [see comments] Frayne J, et al. **Aust N Z J Surg** 1996 Sep;66(9):585–91 (26 ref.). Comment in: Aust N Z J Surg 1996 Sep;66(9):577–9.

The evolving role of fine needle cytology and core-biopsy in the diagnosis of breast cancer [editorial; comment] Kitchen PR, et al. **Aust N Z J Surg** 1996 Sep;66(9):577–9 . Comment on: Aust N Z J Surg 1996 Sep;66(9):585–91. Comment on: Aust N Z J Surg 1996 Sep;66(9):592–4. Comment on: Aust N Z J Surg 1996 Sep;66(9):595–7.

Diagnosis of breast cancer with core-biopsy and fine needle aspiration cytology [see comments] Poole GH, et al. **Aust N Z J Surg** 1996 Sep;66(9):592–4. Comment in: Aust N Z J Surg 1996 Sep;66(9):577–9.

Pre-operative histological diagnosis of breast cancer. Serpell JW, et al. **Aust N Z J Surg** 1997 Jun;67(6):325–9

Liver biopsy. Desmet V, et al. **Baillieres Clin Gastroenterol** 1995 Dec;9(4):811–28 (115 ref.)

The role for liver biopsy in haemophiliacs infected with the hepatitis C virus. Wong VS, et al. **Br J Haematol** 1997 May;97(2):343–7

Needle localisation of the bucco-facial lymph node at surgery. Fordyce AM. **Br J Oral Maxillofac Surg** 1997 Apr;35(2):142–3

Quantitative microbiology in the management of burn patients. I. Correlation between quantitative and qualitative burn wound biopsy culture and surface alginate swab culture. Steer JA, et al. **Burns** 1996 May;22(3):173–6

Quantitative microbiology in the management of burn patients. II. Relationship between bacterial counts obtained by burn wound biopsy culture and surface alginate swab culture, with clinical outcome following burn surgery and change of dressings. Steer JA, et al. **Burns** 1996 May; 22(3):177–81

Diagnostic discrepancies and their clinical impact in a neuropathology referral practice [see comments] Bruner JM, et al. **Cancer** 1997 Feb 15;79(4):796–803. Comment in: Cancer 1996 Feb 15;79(4):665–7.

Koilocytotic atypia in Papanicolaou smears. Reproducibility and biopsy correlations. Lee KR, et al. **Cancer** 1997 Feb 25;81(1):10–5

Pathologic diagnosis as the gold standard [editorial; comment] Rorke LB. **Cancer** 1997 Feb 15;79(4):665–7. Comment on: Cancer 1996 Feb 15;79(4):796–804.

Technique of stereotactic biopsy in a 5-month-old child. Kondziolka D, et al. **Childs Nerv Syst** 1996 Oct; 12(10):615–8

Construction of cDNA bank from biopsy specimens for multiple gene analysis of cancer. Ishikawa T, et al. **Clin Chem** 1997 May;43(5):764–70

Lessons from kidney biopsies. Osterby R. **Diabetes Metab Rev** 1996 Oct;12(3):151–74 (121 ref.)

Validity of a novel biopsy urease test (HUT) and a simplified 13C-urea breath test for diagnosis of Helicobacter pylori infection and estimation of the severity of gastritis. Labenz J, et al. **Digestion** 1996 Nov-Dec;57(6):391–7

Ambulatory mediastinal biopsy for hematologic malignancies. Venuta F, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):218–21

Factors affecting surgical margin clearance in screen-detected breast cancer and the effect of cavity biopsies on residual disease. Chinyama CN, et al. **Eur J Surg Oncol** 1997 Apr;23(2):123–7

Disposable versus reusable biopsy forceps: a prospective evaluation of costs. Kozarek RA, et al. **Gastrointest Endosc** 1996 Jan;43(1):10–3

The influence of size or number of biopsies on rapid urease test results: a prospective evaluation. Laine L, et al. **Gastrointest Endosc** 1996 Jan;43(1):49–53

Testicular sperm retrieval by percutaneous fine needle sperm aspiration compared with testicular sperm extraction by open biopsy in men with non-obstructive azoospermia. Friedler S, et al. **Hum Reprod** 1997 Jul;12(7):1488–93

Endometrial pipelle biopsy compared to conventional dilatation and curettage. Ong S, et al. **Ir J Med Sci** 1997 Jan-Mar;166(1):47–9

Log-in/log-out time: a quality factor for a reference laboratory--prolonged times for skin pathology processing in managed care-authorized laboratories. Penneys NS. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):995–8

Assessing the quality of radiographs accompanying biopsy specimens. Rumberg H, et al. **J Am Dent Assoc** 1996 Mar; 127(3):363–8

Ketamine-midazolam versus meperidine-midazolam for painful procedures in pediatric oncology patients. Marx CM, et al. **J Clin Oncol** 1997 Jan;15(1):94–102

Renal biopsy in a child with nephrotic syndrome. Meleg-Smith S, et al. **J La State Med Soc** 1997 Jul; 149(6):239–40

Value of nerve biopsy in the diagnosis and follow-up of leprosy: the role of vascular lesions and usefulness of nerve studies in the detection of persistent bacilli. Chimelli L, et al. **J Neurol** 1997 May;244(5):318–23

An evaluation of the role of suction rectal biopsy in the diagnosis of intestinal neuronal dysplasia. Cord-Udy CL, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):1–6; discussion 7–8

Outpatient liver biopsy in children: a medical position statement of the North American Society for Pediatric Gastroenterology and Nutrition. Fox VL, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):213–6 (20 ref.)

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Tsang P, et al. **JAMA** 1996 Oct 9; 276(14):1136; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Histopathological reporting of breast biopsies and mastectomies for carcinoma of the breast. Looi LM. **Malays J Pathol** 1994 Dec;16(2):173 (0 ref.)

Diagnostic yield of bronchoalveolar lavage and bronchoscopic lung biopsy for detection of Pneumocystis carinii [see comments] Fraser JL, et al. **Mayo Clin Proc** 1996 Nov;71(11):1025–9. Comment in: Mayo Clin Proc 1996 Nov;71(11):1121–3.

MIN-biopsy of brain tumors: operative technique and histomorphological results. Scholz M, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):12–6

Renal biopsy: technical notes [letter] Innocenti M, et al. **Nephron** 1996;72(1):100

Aspartate, glutamate, glutamine, glycine and gamma-aminobutyric acid in human bioptic neocortical areas: comparison to autoptic tissue. Knörle R, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):169–72

Quantitative and qualitative characterization of 1H NMR spectra of colon tumors, normal mucosa and their perchloric acid extracts: decreased levels of myo-inositol in tumours can be detected in intact biopsies. Moreno A, et al. **NMR Biomed** 1996 Feb;9(1):33–45

Sentinel lymph node biopsy in melanoma of the head and neck. Wells KE, et al. **Plast Reconstr Surg** 1997 Sep; 100(3):591–4

Stereotactic core breast biopsy of a minimal carcinoma complicated by a large hematoma: a management dilemma. Deutch BM, et al. **Radiology** 1997 Feb;202(2):431–3

Analysis of cancers not diagnosed at stereotactic core breast biopsy. Liberman L, et al. **Radiology** 1997 Apr;203(1):151–7

Stereotactic core biopsy of calcifications highly suggestive of malignancy. Liberman L, et al. **Radiology** 1997 Jun; 203(3):673–7

Lupus nephritis: predictive value of conventional and Doppler US and comparison with serologic and biopsy parameters. Platt JF, et al. **Radiology** 1997 Apr;203(1):82–6

Diffuse lung disease: diagnostic accuracy of CT in patients undergoing surgical biopsy of the lung. Swensen SJ, et al. **Radiology** 1997 Oct;205(1):229–34

Therapeutic efficacy and complications of excisional biopsy of condyloma acuminatum. Bonnez W, et al. **Sex Transm Dis** 1996 Jul-Aug;23(4):273–6

Use of transrectal ultrasound and biopsy in the detection of prostate cancer. Selzman AA, et al. **Tech Urol** 1995 Winter; 1(4):209–16 (56 ref.)

Internal mammary chain lymphoscintigraphy (IML) and IML-guided internal mammary chain biopsy (GIMB) in breast cancer. Benti R, et al. **Tumori** 1997 Mar-Apr; 83(2):533–6

[Diagnostic certainty of lymph node biopsy in malignancies] Bednář B. **Cas Lek Cesk** 1996 Oct 9;135(19):624–5 (Eng. Abstr.) **(Cze)**

[A second look at hematologic biopsies (letter; comment)] Fakan F, et al. **Cesk Patol** 1996 Aug;32(3):118–9. Comment on: Cesk Patol 1995 Dec;31(4):122–4. **(Cze)**

[The ferricyanide reduction reaction as a staining method in liver biopsy] Fakan F, et al. **Cesk Patol** 1997 Feb; 33(1):34–7 (Eng. Abstr.) **(Cze)**

[Suggested guidelines for consultation in diagnostic pathology (letter)] Povýšil C. **Cesk Patol** 1996 Aug; 32(3):119 **(Cze)**

[A second look at biopsy findings (letter; comment)] Povýšil C. **Cesk Patol** 1996 Aug;32(3):118. Comment on: Cesk Patol 1995 Dec;31(4):122–4. **(Cze)**

[Should biopsy be done on the sensory branch of the radial nerve in leprosy patients? Apropos of 112 cases] Grauwin MY, et al. **Ann Chir Main Memb Super** 1997;16(1):32–7; discussion 38 (Eng. Abstr.) **(Fre)**

[Analysis of the results of 137 subclinical breast lesions

excisions. Value of ultrasonography in the early diagnosis of breast cancer (see comments)] Jacob D, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):27–31 (Eng. Abstr.). Comment in: J Gynecol Obstet Biol Reprod (Paris) 1997;26(2):202. **(Fre)**

[Use of human liver biopsy samples as a technique for evaluation of cytochrome P–450] Isa M. **J Pharm Belg** 1996 Jul–Aug;51(4):189–91 (Eng. Abstr.) **(Fre)**

[Role of testicular biopsy in the investigation of a carcinoma in situ] de la Taille A, et al. **Prog Urol** 1997 Apr;7(2):209–14 (27 ref.) (Eng. Abstr.) **(Fre)**

[Does the proportion of tumor tissue in biopsies reflect the extent of localized prostate cancer?] Ravery V, et al. **Prog Urol** 1996 Jun;6(3):386–91 (Eng. Abstr.) **(Fre)**

[Biopsy examination in neurosurgical operations] Feiden W, et al. **Pathologe** 1997 Jan;18(1):107–10 **(Ger)**

[Indications for and accuracy of biopsy diagnosis in head–neck surgery] Fischer HP, et al. **Pathologe** 1997 Jan; 18(1):101–7 **(Ger)**

[General aspects for biopsy examination] Meister P. **Pathologe** 1997 Jan;18(1):89–90 **(Ger)**

[Problem cases in routine diagnosis by the pathologist—indications and accuracy of rapid section diagnosis. Uropathology] Meister P, et al. **Pathologe** 1997 Jan;18(1):90–5 **(Ger)**

[Biopsy examination of lung diseases] Müller KM, et al. **Pathologe** 1997 Jan;18(1):95–8 **(Ger)**

[Intraoperative diagnostic frozen section of the thyroid gland] Schmid KW, et al. **Pathologe** 1997 Jan;18(1):98–101 **(Ger)**

[Invasive pneumonia diagnosis in community–acquired pneumonia (see comments)] Dalhoff K, et al. **Pneumologie** 1996 Oct;50(10):687–92 (46 ref.). Comment in: Pneumologie 1997 Feb;51(2):90–2. **(Ger)**

[Differential diagnosis of cystic adnexa processes. A comparison of the value of sonography, puncture cytology and color and biochemical biopsy analysis with histology] Christensen B, et al. **Zentralbl Gynakol** 1997;119(2):66–74 (Eng. Abstr.) **(Ger)**

[Benign lesions of the breast] Pettinato G, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):151–66 (106 ref.) (Eng. Abstr.) **(Ita)**

[Analysis of small peripheral lung cancer diagnosed by open lung or thoracoscopic biopsy] Nomori H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):146–8 (Eng. Abstr.) **(Jpn)**

[Verification of indications for kidney biopsy in children with steroid–dependent nephrotic syndrome] Idczak–Nowicka E, et al. **Pediatr Pol** 1996 Aug;71(8):679–83 (Eng. Abstr.) **(Pol)**

[Comparative analysis of agreement between cytologic diagnosis by examination of tissue imprints and pathohistologic findings in intraoperative breast biopsy] Bokun R, et al. **Vojnosanit Pregl** 1997 Jan–Feb;54(1):27–30 (Eng. Abstr.) **(Scr)**

[Correlation among endoscopic, histological, and microbiological findings in gastroduodenal pathology associated with Helicobacter pylori] Carmona Sáez TJ, et al. **An Med Interna** 1996 Jun;13(6):269–73 (Eng. Abstr.) **(Spa)**

[Liver biopsy: necessity, diversity, criteria, and future (editorial)] Piñar Moreno A, et al. **An Med Interna** 1996 Sep;13(9):415–8 **(Spa)**

[Effects of a written consent for liver biopsy on information and anxiety of patients] Hernando Robles P, et al. **Rev Clin Esp** 1997 Aug;197(8):564–7 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Clinical presentation of cardiac herniation without lung resection: a surgical emergency. Groudine SB, et al. **Am J Crit Care** 1996 Sep;5(5):373–5

Nonalcoholic steatohepatitis [letter; comment] Moseley RH. **Ann Intern Med** 1997 Sep 1;127(5):410–1. Comment on: Ann Intern Med 1997 Jan 15;126(2):137–45.

Nonalcoholic steatohepatitis [letter; comment] Walker JM. **Ann Intern Med** 1997 Sep 1;127(5):411. Comment on: Ann Intern Med 1997 Jan 15;126(2):137–45.

Investigation of chronic hepatitis C infection in individuals with haemophilia [letter] [see comments] Lee CA. **Br J Haematol** 1997 Feb;96(2):425–6. Comment in: Br J Haematol 1997 Jun;97(3):689–90. Comment in: Br J Haematol 1997 Jun;97(3):690–1.

Liver biopsy in haemophilia [letter; comment] Ludlam CA, et al. **Br J Haematol** 1997 Jun;97(3):690–1. Comment on: Br J Haematol 1997 Feb;96(2):425–6.

Liver biopsy in haemophilia [letter; comment] Makris M, et al. **Br J Haematol** 1997 Jun;97(3):689–90. Comment on: Br J Haematol 1997 Feb;96(2):425–6.

Morbidity of ultrasound–guided transrectal core biopsy of the prostate without prophylactic antibiotic therapy. A prospective study in 415 cases. Enlund AL, et al. **Br J Urol** 1997 May;79(5):777–80

Safety and yield of transbronchial biopsy in mechanically ventilated patients. O'Brien JD, et al. **Crit Care Med** 1997 Mar;25(3):440–6

Persistent postoperative complaints after whole sural nerve biopsies in diabetic and non–diabetic subjects [see comments] Dahlin LB, et al. **Diabet Med** 1997 May; 14(5):353–6. Comment in: Diabet Med 1997 May;14(5):345–6.

Minimal myocardial lesions caused by endomyocardial biopsy can be detected by a commercially available cardiac troponin–T enzyme–linked immunosorbent assay. Lang K, et al. **Eur J Clin Invest** 1996 Jun;26(6):451–3

Intramural duodenal hematoma after endoscopic biopsy in leukemic patients. Lipson SA, et al. **Gastrointest Endosc** 1996 Nov;44(5):620–3

"Every defect is a treasure." Quality problems that result in adverse outcomes provide opportunities for quality improvement. **Int J Qual Health Care** 1997 Apr;9(2):149–50

Pelvic haematoma following trucut biopsy of the prostate. Anjum MI. **Int Urol Nephrol** 1996;28(6):781–5

Two cases of retrovesical haematoma following prostatic biopsy. Saçak V, et al. **Int Urol Nephrol** 1997;29(2):207–11

Pregnancies resulting from embryos biopsied for preimplantation diagnosis of genetic disease: biochemical and ultrasonic studies in the first trimester of pregnancy. Soussis I, et al. **J Assist Reprod Genet** 1996 Mar;13(3):254–8

Patient to patient hepatitis B transmission during heart biopsy procedures. A report of the European Working Party on Viral Hepatitis in Heart Transplant Recipients [letter] de Man RA, et al. **J Hosp Infect** 1996 Sep;34(1):71–2

Tumor seeding following stereotactic biopsy of brain metastases. Report of two cases. Karlsson B, et al. **J Neurosurg** 1997 Aug;87(2):327–30

Arteriovenous fistula: a complication following renal biopsy of suspected bilateral Wilms' tumor [clinical conference] Coppes MJ, et al. **Med Pediatr Oncol** 1997 Jun;28(6):455–61

Serum creatine kinase kinetics after endomyocardial biopsy in cardiac transplant patients. Malinowski TR, et al. **Mil Med** 1997 Jan;162(1):51–4

Kidney biopsy complicated by perirenal haematoma induces flare of systemic lupus erythematosus: two cases. Bachmeyer C, et al. **Nephrol Dial Transplant** 1996 Nov; 11(11):2299–301

Psychological and clinical effects of renal biopsy performed using sedation. Blake KD, et al. **Pediatr Nephrol** 1996 Dec; 10(6):693–5

Perforation of the small bowel following a suction biopsy: diagnosis on upper GI series. Ryerson R, et al. **Pediatr Radiol** 1996 Oct;26(10):727–8

Morbidity and mortality of open lung biopsy in children. Davies L, et al. **Pediatrics** 1997 May;99(5):660–4

Valve reconstruction or replacement for long–term biopsy–induced tricuspid regurgitation following heart transplantation. Wahlers T, et al. **Transpl Int** 1996;9 Suppl 1:S247–8

Complications of transrectal ultrasound–guided systematic sextant biopsies of the prostate: evaluation of complication rates and risk factors within a population–based screening program. Rietbergen JB, et al. **Urology** 1997 Jun; 49(6):875–80 (26 ref.)

[Echography in the diagnosis and follow–up of renal biopsy complications] Campobasso N, et al. **Arch Ital Urol Androl** 1997 Jun;69(3):193–9 (Eng. Abstr.) **(Ita)**

[Treatment of intrahepatic arteriovenous fistula after biopsy. Results in 5 chemoembolization candidates with hepatocarcinoma] Maspes F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):418–24 (Eng. Abstr.) **(Ita)**

[Complications of renal oligobiopsy with regard to highly selective renal artery embolization as a method treatment—case report] Hyla–Klekot L, et al. **Przegl Lek** 1996;53(7):582–4 (Eng. Abstr.) **(Pol)**

[Bacteremia caused by Campylobacter fetus secondary to rectal biopsy (letter)] Arnal J, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):227–8 **(Spa)**

CONTRAINDICATIONS

Diffuse brainstem tumors: when is a biopsy necessary? Albright AL. **Pediatr Neurosurg** 1996;24(5):252–5 (27 ref.)

ECONOMICS

Gastric ulcers at endoscopy: brush, biopsy, or both? Sadowski DC, et al. **Am J Gastroenterol** 1997 Apr;92(4):608–13

A comparison of Medicare reimbursement and results for various imaging–guided breast biopsy techniques. Howisey RL, et al. **Am J Surg** 1997 May;173(5):395–8

Comparison of the costs of fine–needle aspiration and open surgical biopsy as methods for obtaining a pathologic diagnosis. Rimm DL, et al. **Cancer** 1997 Feb 25;81(1):51–6

Electron microscopic examination of skin biopsy as a cost–effective tool in the diagnosis of lysosomal storage diseases. Prasad A, et al. **J Child Neurol** 1996 Jul; 11(4):301–8

A cost minimization approach to the diagnosis of skeletal neoplasms. Ruhs SA, et al. **Skeletal Radiol** 1996 Jul; 25(5):449–54

INSTRUMENTATION

Stereotactic brain biopsy guided by positron emission tomography (PET) with [F–18]fluorodeoxyglucose and [C–11]methionine. Pirotte B, et al. **Acta Neurochir Suppl (Wien)** 1997;68:133–8

Wire fragments after needle localization. Montrey JS, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1267–9

A system for obtaining undiluted intraoperative vitreous biopsy samples. Scholda CD, et al. **Arch Ophthalmol** 1996 Oct;114(10):1271–2

Arthroscopic intra–articular biopsy using a suction trap device. Redmond BJ, et al. **Arthroscopy** 1996 Jun; 12(3):343–4

Endoscopy–assisted placement of a Crosby capsule by a new method: results of a preliminary study. Oksüzoğlu G, et al. **Endoscopy** 1997 Feb;29(2):139–40

Technicalities of endoscopic biopsy. Tytgat GN, et al. **Endoscopy** 1995 Nov;27(9):683–8 (17 ref.)

Efficacy and safety of videothoracoscopic lung biopsy in the diagnosis of interstitial lung disease. Mouroux J, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):22–4, 25–6

Comparison of cytospat and pipelle endometrial biopsy instruments. Antoni J, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72(1):57–61

Comparison of minimally invasive thoracoscopy versus open thoracotomy for staging lung cancer. Champion JK, et al. **Int Surg** 1996 Jul–Sep;81(3):235–6

Videothoracoscopic operative staging for lung cancer. Roviaro GC, et al. **Int Surg** 1996 Jul–Sep;81(3):252–4

Surgical pearl: use of a double razor blade to obtain stratum corneum specimens for potassium hydroxide examination. Shelley WB, et al. **J Am Acad Dermatol** 1997 Jan;36(1):91

Surgical pearl: the trephine punch for diagnosing panniculitis. Tok J, et al. **J Am Acad Dermatol** 1996 Dec;35(6):980–1

A simplified technique for embryo biopsy: use of the same micropipette for zona drilling and blastomere aspiration. Chen SU, et al. **J Assist Reprod Genet** 1997 Mar; 14(3):157–61

Stereotactic biopsy of brain tumours. Shams S, et al. **JPMA J Pak Med Assoc** 1996 Aug;46(8):176–8

Heads–up intraoperative endoscopic imaging: a prospective evaluation of techniques and limitations. Levy ML, et al. **Neurosurgery** 1997 Mar;40(3):526–30; discussion 530–1

Laser artifacts and diagnostic biopsy [letter] Eversole LR. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):639–40

Gamma probe guided sentinel node biopsy in breast cancer. Gulec SA, et al. **Q J Nucl Med** 1997 Sep;41(3):251–61 (61 ref.)

[CT–guided punctures: diagnostic value, therapeutic consequences and economic aspects] Schwarzenberg H, et al. **Aktuelle Radiol** 1996 Jan;6(1):1–6 (Eng. Abstr.) **(Ger)**

[Staging laparoscopy] Feussner H, et al. **Chirurg** 1997 Mar; 68(3):201–9 (41 ref.) (Eng. Abstr.) **(Ger)**

[Primitive medicine and high tech medicine (comment)] Jütte R. **HNO** 1997 Feb;45(2):61–2. Comment on: HNO 1997 Feb;45(2):65–8. **(Ger)**

[3D computer–assisted ENT biopsies of the Iceman (see comments)] Thumfart WF, et al. **HNO** 1997 Feb;45(2):65–8 (Eng. Abstr.). Comment in: HNO 1997 Feb;45(2):61–2. **(Ger)**

[CT–angiography in planning stereotaxic biopsies] Bartylla K, et al. **Radiologe** 1996 Nov;36(11):867–71 (Eng. Abstr.) **(Ger)**

[Interactive stereotaxic interventions in superconducting, open 0.5–Tesla MRI tomography] Steiner P, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):276–80 (Eng. Abstr.) **(Ger)**

[Utility of thoracoscopy for diagnosis of pulmonary diseases in clinical pulmonary medicine] Ishii Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:159–65 (Eng. Abstr.) **(Jpn)**

METHODS

Fine needle aspiration biopsy in hepatic Echinococcus multilocularis. Ciftçioğlu MA, et al. **Acta Cytol** 1997 May–Jun;41(3):649–52

The case for cytologic follow–up after LEEP. Hanau CA, et al. **Acta Cytol** 1997 May–Jun;41(3):731–6

Usefulness of indocyanine green injection during ultrasound–guided liver biopsy for the diagnosis of small hepatocellular carcinoma. Kimura Y, et al. **Acta Med Okayama** 1996 Oct;50(5):255–9

An analysis of the factors involved in the diagnostic accuracy of colposcopically directed biopsy. Baldauf JJ, et al. **Acta Obstet Gynecol Scand** 1997 May;76(5):468–73

3D image–guided surgery on the example of the 5,300–year–old Innsbruck Iceman. Thumfart WF, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):131–4

Intraductal placement of a Kopans spring–hookwire guide to localize nonpalpable breast lesions detected by galactography. Vega Bolivar A, et al. **Acta Radiol** 1997 Mar;38(2):240–2

Principles of skin biopsies for the family physician. Achar S. **Am Fam Physician** 1996 Dec;54(8):2411–8 (14 ref.)

Modification of myocardial biopsy technique with long sheath [letter] Bagger JP. **Am J Cardiol** 1996 Oct 1; 78(7):860

Frozen sections and breast biopsies [letter; comment] Givelber HM. **Am J Clin Pathol** 1997 Apr;107(4):493. Comment on: Am J Clin Pathol 1996 Aug;106(2):225–8.

Histologic processing of microbiopsies from cervical smears is diagnostically useful in selected cases. Mravunac M, et al. **Am J Clin Pathol** 1997 Aug;108(2):191–6

Frozen sections and breast biopsies [letter; comment] Wightman HR. **Am J Clin Pathol** 1997 Apr;107(4):493. Comment on: Am J Clin Pathol 1996 Aug;106(2):225–8.

Double–contrast upper gastrointestinal examination with nonendoscopic biopsy: replacement for endoscopy? Ott DJ. **Am J Gastroenterol** 1997 Jul;92(7):1233–4

Stereotactic excisional breast biopsies utilizing the advanced breast biopsy instrumentation system. D'Angelo PC, et al. **Am J Surg** 1997 Sep;174(3):297–302

A comparison of Medicare reimbursement and results for various imaging–guided breast biopsy techniques. Howisey

RL, et al. **Am J Surg** 1997 May;173(5):395–8

Analytical comparison of volume-weighted mean nuclear volume between specimens from transrectal biopsy and transurethral resection of the prostate [letter] Fujikawa K. **Anal Quant Cytol Histol** 1997 Aug;19(4):368

Bone marrow trephine biopsy in infants. European Neuroblastoma Study Group. Reid MM, et al. **Arch Dis Child** 1997 Jul;77(1):60–1

Histologic correlation of image-guided core biopsy with excisional biopsy of nonpalpable breast lesions. Acheson MB, et al. **Arch Surg** 1997 Aug;132(8):815–8; discussion 819–21

The efficacy of open lung biopsy. Neuhaus SJ, et al. **Aust N Z J Surg** 1997 Apr;67(4):181–4

Laser technique captures cells. **Biomed Instrum Technol** 1997 Mar–Apr;31(2):171–2

Endometrial sampling and general practice. Shapley M, et al. **Br J Gen Pract** 1997 Jun;47(419):387–91

Incisional biopsy: reducing artefact [letter; comment] Kerawala CJ. **Br J Oral Maxillofac Surg** 1995 Dec; 33(6):396. Comment on: Br J Oral Maxillofac Surg 1995 Aug;33(4):244–7.

Brush cytology for the diagnosis of rectal carcinoma [letter; comment] al-Fallouji M, et al. **Br J Surg** 1997 Apr; 84(4):584. Comment on: Br J Surg 1996 Oct;83(10):1456–8.

Brush cytology for the diagnosis of rectal carcinoma [letter; comment] Webb AJ. **Br J Surg** 1997 Apr;84(4):584. Comment on: Br J Surg 1996 Oct;83(10):1456–8.

Comparison of the costs of fine-needle aspiration and open surgical biopsy as methods for obtaining a pathologic diagnosis. Rimm DL, et al. **Cancer** 1997 Feb 25;81(1):51–6

Use of strip biopsy for early duodenal cancer--a case report. Obata S, et al. **Cancer Detect Prev** 1995;19(6):535–8

Comparison of fine needle aspiration and Tru-Cut biopsy of palpable mammary lesions. Scopa CD, et al. **Cancer Detect Prev** 1996;20(6):620–4

Reproducibility of an esophageal biopsy sampling procedure in a high-incidence area for esophageal cancer in northern China. Wang LD, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):405–6

A novel methodological approach to study the level of specific protein and gene expression in aberrant crypt foci putative preneoplastic colonic lesions by Western blotting and RT-PCR. Bird RP, et al. **Cancer Lett** 1997 Jun 3; 116(1):15–9

A new method for isolation of cardiac myocytes by percutaneous endomyocardial biopsy. Abela GS, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):227–30

Vegetation biopsy using transesophageal echocardiography guidance: a technique to aid in diagnosis of culture-negative endocarditis [see comments] Colvin EV, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):215–7. Comment in: Cathet Cardiovasc Diagn 1996 Feb;37(2):218–9.

Hepatic and pulmonary biopsy by mini-thoracotomy and transdiaphragmatic access. Fernandez A, et al. **Chest** 1996 Dec;110(6):1384–6

Mediastinoscopy vs thoracoscopy for mediastinal biopsy. Results of a prospective nonrandomized study. Gossot D, et al. **Chest** 1996 Nov;110(5):1328–31

Accuracy of the Jamshidi trocar biopsy in the diagnosis of bone tumors. van der Bijl AE, et al. **Clin Orthop** 1997 Jan; (334):233–43

Routine early biopsy of allografts with delayed function: correlation of histopathology and transplant outcome. Gaber LW, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):629–34

The role of laparoscopic ovarian biopsy in the management of premature gonadal failure. Olivar AC. **Conn Med** 1996 Dec;60(12):707–8

Safety and yield of transbronchial biopsy in mechanically ventilated patients. O'Brien JD, et al. **Crit Care Med** 1997 Mar;25(3):440–6

Intraoperative diagnosis of osseous eosinophilic granuloma by touch preparation: report of two cases with immunohistochemistry and electron microscopy. Demille P, et al. **Diagn Cytopathol** 1996 Feb;14(1):68–71

A new method of obtaining rectal mucosal biopsy during rigid sigmoidoscopy. Oksüzoğlu G, et al. **Endoscopy** 1997 Jan;29(1):55

Routine jejunal endoscopic biopsy in children. Vukavić T, et al. **Eur J Pediatr** 1996 Dec;155(12):1002–4

Scoop biopsy of intracaval tumor thrombi: a preliminary report of a minimally invasive technique to obtain large samples. Kishi K, et al. **Eur J Radiol** 1997 May;24(3):263–8

Wire-directed localization biopsy of the breast: an audit of results and analysis of factors influencing therapeutic value in the treatment of breast cancer. Chadwick DR, et al. **Eur J Surg Oncol** 1997 Apr;23(2):128–33

Percutaneous bone biopsy, techniques and indications. Berning W, et al. **Eur Radiol** 1996;6(6):875–81 (21 ref.)

Bronchial brush biopsies for studies of epithelial inflammation in stable asthma and nonobstructive chronic bronchitis [see comments] Riise GC, et al. **Eur Respir J** 1996 Aug; 9(8):1665–71. Comment in: Eur Respir J 1996 Aug;9(8):1583.

Diffuse pulmonary calcinosis without calcium metabolism abnormalities in a renal transplant recipient. Romagnoli M, et al. **Eur Respir J** 1997 Apr;10(4):958–60

Intravascular lymphomatosis diagnosed by transbronchial lung biopsy. Takamura K, et al. **Eur Respir J** 1997 Apr; 10(4):955–7 (13 ref.)

An improved treatment procedure for testicular biopsy specimens offers more efficient sperm recovery: case series. Nagy ZP, et al. **Fertil Steril** 1997 Aug;68(2):376–9

Gastric mucosal biopsy via a nasogastric tube: a nonendoscopic method for diagnosing fundic and antral mucosal gastritis and Helicobacter pylori infection in man. Cryer B, et al. **Gastrointest Endosc** 1996 Sep;44(3):317–23

Fine-needle aspiration cytology versus core biopsies in the evaluation of recurrent gynecologic malignancies. Malmström H. **Gynecol Oncol** 1997 Apr;65(1):69–73

Correlation between colposcopically directed biopsy and cervical loop excision [see comments] Massad LS, et al. **Gynecol Oncol** 1996 Mar;60(3):400–3. Comment in: Gynecol Oncol 1997 Jan;64(1):180–1.

Clinical and prognostic evaluation of bone marrow infiltration (biopsy versus aspirate) in early chronic lymphocytic leukemia. A single center study. Molica S, et al. **Haematologica** 1997 May–Jun;82(3):286–90

Percutaneous transhepatic transluminal forceps biopsy in obstructive jaundice. Tsai CC, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):770–3

Histological precision of stereotactic core biopsy in diagnosis of malignant and premalignant breast lesions. Dahlstrom JE, et al. **Histopathology** 1996 Jun;28(6):537–41

The role of pre-operative diagnosis in breast cancer. Pinder SE, et al. **Histopathology** 1996 Jun;28(6):563–6

Biopsy of bone and soft-tissue lesions. Simon MA, et al. **Instr Course Lect** 1994;43:521–6 (21 ref.)

Percutaneous large core needle biopsy versus surgical biopsy in the diagnosis of breast lesions. Anania G, et al. **Int Surg** 1997 Jan–Mar;82(1):52–5

Pathologic evaluation of fresh tissue from neurosurgical biopsies: technical and interpretational aspects. Kristt DA. **Isr J Med Sci** 1996 Dec;32(12):1252–5

Advanced breast cancer biopsy instrumentation: a critique. Ferzli GS, et al. **J Am Coll Surg** 1997 Aug;185(2):145–51

Simple, rapid staining method for immediate intraoperative examination of testicular biopsies. Belker AM, et al. **J Androl** 1996 Jul–Aug;17(4):420–6

A simplified technique for embryo biopsy: use of the same micropipette for zona drilling and blastomere aspiration. Chen SU, et al. **J Assist Reprod Genet** 1997 Mar; 14(3):157–61

Comparative merits of different tissue biopsies in the diagnosis of sarcoidosis: Indian perspective. Gupta SK, et al. **J Assoc Physicians India** 1996 Sep;44(9):609–11

Biopsy diagnosis of prostatic cancer--current areas of concern [editorial] Feneley MR, et al. **J Clin Pathol** 1997 Apr;50(4):265–6

Role of transrectal ultrasound and prostate biopsy. Melchior SW, et al. **J Clin Ultrasound** 1996 Oct;24(8):463–71 (53 ref.)

External jugular vein approach for percutaneous right ventricular biopsy. Anderson AS, et al. **J Heart Lung Transplant** 1997 May;16(5):576–8

Ultrasound-guided biopsy for the diagnosis of hepatocellular carcinoma--a study based on 420 patients [letter; comment] de Sio I, et al. **J Hepatol** 1997 May;26(5):1155–6. Comment on: J Hepatol 1996 Sep;25(3):334–8.

Various approaches to obtaining liver tissue--choosing the biopsy technique. Lebrec D. **J Hepatol** 1996;25 Suppl 1:20–4 (21 ref.)

Diagnostic biopsy of the motor nerve to the gracilis muscle. Technical note. Abouzahr MK, et al. **J Neurosurg** 1997 Jul;87(1):122–4

Stereotactic biopsy of nonpolar tumors in the dominant hemisphere: a prospective study of effects on language functions. Thomson AM, et al. **J Neurosurg** 1997 Jun; 86(6):923–6

Technique of small-bowel biopsy [letter; comment] Högberg L, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):450 . Comment on: J Pediatr Gastroenterol Nutr 1996 Feb;22(2):229–30.

Synchronously performed prostatic fine needle aspiration and core biopsies--an appraisal. Prabhu GG, et al. **J Postgrad Med** 1994 Apr–Jun;40(2):71–3

Colposcopic biopsies versus loop electrosurgical excision procedure cone histology in human immunodeficiency virus-positive women. Del Priore G, et al. **J Reprod Med** 1996 Sep;41(9):653–7

Systematic 5 region prostate biopsy is superior to sextant method for diagnosing carcinoma of the prostate [see comments] Eskew LA, et al. **J Urol** 1997 Jan; 157(1):199–202; discussion 202–3. Comment in: J Urol 1997 Jan;157(1):207–8.

Percutaneous testis biopsy: an alternative to open testicular biopsy in the evaluation of the subfertile man [see comments] Harrington TG, et al. **J Urol** 1996 Nov; 156(5):1647–51. Comment in: J Urol 1996 Nov;156(5):1655.

Diagnostic accuracy of ureteroscopic biopsy in upper tract transitional cell carcinoma [see comments] Keeley FX, et al. **J Urol** 1997 Jan;157(1):33–7. Comment in: J Urol 1997 Jan;157(1):42–3.

Intraductal biliary biopsy: comparison of three techniques. Savader SJ, et al. **J Vasc Interv Radiol** 1996 Sep–Oct; 7(5):743–50

Diagnosis of right atrial metastatic melanoma by transesophageal echocardiographic-guided transvenous biopsy. Malouf JF, et al. **Mayo Clin Proc** 1996 Dec; 71(12):1167–70 (14 ref.)

Comparison of endobronchial needle aspiration with forceps and brush biopsies in the diagnosis of endobronchial lung cancer. Bilaçeroğlu S, et al. **Monaldi Arch Chest Dis** 1997 Feb;52(1):13–7

Comparative study between 18- and 16-gauge needle automated renal biopsy under orthogonal ultrasound guidance in children [letter] Tsuchida S, et al. **Nephron** 1997;75(2):238

Intracranial mass lesions in acquired immunodeficiency syndrome: using decision analysis to determine the effectiveness of stereotactic brain biopsy. Holloway RG, et al. **Neurology** 1996 Apr;46(4):1010–5

Pineal region tumors and the role of stereotactic biopsy: review of the mortality, morbidity, and diagnostic rates in 370 cases. Regis J, et al. **Neurosurgery** 1996 Nov; 39(5):907–12; discussion 912–4

Success of sentinel lymph node biopsy in melanoma leads to test in breast cancer [news] **Oncology (Huntingt)** 1996 Dec;10(12):1838

A technique for obtaining repeated liver biopsies from rats. Cmielewski PL, et al. **Pathology** 1997 Aug;29(3):286–8

Renal biopsy in the 1990s [editorial] Conley SB. **Pediatr Nephrol** 1996 Aug;10(4):412–3

Office procedures. Endometrial biopsy. Apgar BS, et al. **Prim Care** 1997 Jun;24(2):303–26 (61 ref.)

Gamma probe guided sentinel node biopsy in breast cancer. Gulec SA, et al. **Q J Nucl Med** 1997 Sep;41(3):251–61 (61 ref.)

Double-contrast barium examination of the upper gastrointestinal tract with nonendoscopic biopsy: findings in 100 patients. Bender GN, et al. **Radiology** 1997 Feb; 202(2):355–9

Mammographic findings after stereotactic 14-gauge vacuum biopsy. Liberman L, et al. **Radiology** 1997 May; 203(2):343–7

Biopsy technique for pigmented lesions. Cockerell CJ. **Semin Cutan Med Surg** 1997 Jun;16(2):108–12 (15 ref.)

Alopecia: histologic diagnosis by transverse sections. Templeton SF, et al. **Semin Diagn Pathol** 1996 Feb; 13(1):2–18 (33 ref.)

Liver biopsy--past, present and future. Chuah SY. **Singapore Med J** 1996 Feb;37(1):86–90 (69 ref.)

Intraoperative diagnostic techniques for stereotactic brain biopsy: cytology versus frozen-section histopathology. Hayden R, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):187–93

Computerized tomography and magnetic resonance guided stereotactic brain biopsy in nonimmunocompromised and AIDS patients. Nicolato A, et al. **Surg Neurol** 1997 Sep; 48(3):267–76; discussion 276–7

Selective sampling of yellow prostate chips: a specific method for detecting prostatic adenocarcinoma. Geddy PM, et al. **Urol Int** 1996;56(1):33–5

Retroperitoneoscopic renal biopsy in extremely obese patients. Chen RN, et al. **Urology** 1997 Aug;50(2):195–8

Computer-assisted comparative analysis of four-sector and six-sector biopsies of the prostate. Karakiewicz PI, et al. **Urology** 1996 Nov;48(5):747–50

Outcome of sextant biopsy according to gland volume. Karakiewicz PI, et al. **Urology** 1997 Jan;49(1):55–9

[Digital roentgen-guided large-needle biopsy as an alternative to surgical biopsy in patients with nonpalpable mammographic abnormalities] Pijnappel RM, et al. **Ned Tijdschr Geneeskd** 1996 Sep 28;140(39):1948–52 (Eng. Abstr.) **(Dut)**

[Stereotaxic mammary core biopsy. II. Complementarity or competition with surgical biopsy] Thiesse P, et al. **Ann Chir** 1996;50(6):463–9 (51 ref.) (Eng. Abstr.) **(Fre)**

[Method of biopsy and ultrastructural study of the parathyroid gland in patients with primary hyperparathyroidism] D'Andrea V, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):671–5; discussion 675–6 (Eng. Abstr.) **(Ita)**

[Nonpalpable lesions of the breast. A new technique of ultrasound-guided excision biopsy] Di Giorgio A, et al. **Minerva Chir** 1996 Dec;51(12):1139–43 (Eng. Abstr.) **(Ita)**

[Clinical, surgical and diagnostic evaluation of lesions of the oral mucosa using biopsy and histological studies: comparison of two methods] Campisi G, et al. **Minerva Stomatol** 1996 Jun;45(6):247–52 (Eng. Abstr.) **(Ita)**

[Significance of transrectal ultrasound and sextant systematic core biopsy for performing radical prostatectomy] Fujimoto H, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Apr;88(4):479–87 (Eng. Abstr.) **(Jpn)**

[Handling of thyroid diseases: usefulness and limitations of rapid and fine-needle percutaneous biopsy] Sanders LE, et al. **Rev Med Chil** 1996 Jun;124(6):688–93 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Coping with a breast biopsy: how healthcare professionals can help women and their husbands. Northouse LL, et al. **Oncol Nurs Forum** 1997 Apr;24(3):473–80

STANDARDS

A clinicopathological approach to cystitis--recommendations for simplified pathology reporting. Thilagarajah R, et al. **Br J Urol** 1997 Apr; 79(4):567–71

Prospective evaluation of biopsy number for the diagnosis of viral esophagitis in patients with HIV infection and esophageal ulcer. Wilcox CM, et al. **Gastrointest Endosc**

1996 Nov;44(5):587–93

Fine-needle aspiration cytology versus core biopsies in the evaluation of recurrent gynecologic malignancies. Malmström H. **Gynecol Oncol** 1997 Apr;65(1):69–73

Factors associated with clear biopsy margins and clear reexcision margins in breast cancer specimens from candidates for breast conservation. Tartter PI, et al. **J Am Coll Surg** 1997 Sep;185(3):268–73

A comparison of the cytology of endomyocardial biopsy washings from heart transplants with biopsy histologic study and peripheral blood lymphocyte counts. Clelland C, et al. **J Heart Lung Transplant** 1997 May;16(5):477–83

Endometrial biopsy in DUB. Ash SJ, et al. **J Reprod Med** 1996 Dec;41(12):892–6

Variation between centers in technique and guidelines for liver biopsy. Sue M, et al. **Liver** 1996 Aug;16(4):267–70

Histopathology services in a rural African hospital: how audit can improve service. Kettle H, et al. **Trop Doct** 1997 Jul; 27(3):131–2

STATISTICS & NUMERICAL DATA

Routine contralateral breast biopsy: helpful or irrelevant? Experience in 871 patients, 1979–1993. Cody HS 3rd. **Ann Surg** 1997 Apr;225(4):370–6 (33 ref.)

The significance of central pathology review in clinical studies of transitional cell carcinoma in situ [see comments] Sharkey FE, et al. **J Urol** 1997 Jan;157(1):68–70; discussion 70–1. Comment in: J Urol 1997 Jan;157(1):83–4.

MRI may reduce the number of biopsies for breast cancer [news] **Oncology (Huntingt)** 1995 Jun;9(6):489, 510

Time trends of benign/malignant breast biopsy ratios a multicenter Italian study. Ciatto S, et al. **Tumori** 1996 Jul–Aug;82(4):325–8

TRENDS

The mediastinum. Marchevsky A. **Pathology (Phila)** 1996; 3(2):339–48 (19 ref.)

Salivary gland. Ranchod M. **Pathology (Phila)** 1996; 3(2):305–19 (12 ref.)

Intraoperative consultation: introduction and general principles. Ranchod M. **Pathology (Phila)** 1996;3(2):259–71 (7 ref.)

Skin. Smoller BR, et al. **Pathology (Phila)** 1996;3(2):285–98 (15 ref.)

UTILIZATION

Skin biopsy indications in primary care practice: a population-based study [see comments] Jones TP, et al. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):397–404. Comment in: J Am Board Fam Pract 1997 Mar–Apr;10(2):175–6.

Re: Editorial: can prostate specific antigen derivatives reduce the frequency of unnecessary prostate biopsies? [letter; comment] Stephan C, et al. **J Urol** 1997 Apr;157(4):1371 . Comment on: J Urol 1996 Aug;156(2 Pt 1):443–4.

VETERINARY

Muscle biopsy as a tool for assessing muscular adaptation to training in horses. Rivero JL. **Am J Vet Res** 1996 Oct; 57(10):1412–6

Rectal biopsy diagnosis in horses with clinical signs of intestinal disorders: a retrospective study of 116 cases [see comments] Lindberg R, et al. **Equine Vet J** 1996 Jul; 28(4):275–84. Comment in: Equine Vet J 1996 Jul;28(4):254–5.

Rectal biopsy—a piece of the diagnostic jigsaw puzzle [editorial; comment] Ricketts SW. **Equine Vet J** 1996 Jul; 28(4):254–5. Comment on: Equine Vet J 1996 Jul;28(4):275–84.

Ultrasound-guided catheter biopsy of the lower urinary tract: technique and results in 12 dogs. Lamb CR, et al. **J Small Anim Pract** 1996 Sep;37(9):413–6

A cucumber mount for processing lung biopsy specimens from calves. Brodersen BW, et al. **J Vet Diagn Invest** 1996 Oct;8(4):518–9

The use of kidney biopsy of broodstock steelhead trout (Oncorhyncus mykiss) to determine the status of bacterial kidney disease infection. White MR, et al. **J Vet Diagn Invest** 1996 Oct;8(4):519–22

Urethroscopy, cystoscopy, and biopsy of the feline lower urinary tract. Chew DJ, et al. **Vet Clin North Am Small Anim Pract** 1996 May; 26(3):441–62 (8 ref.)

Cystoscopy and biopsy of the feline lower urinary tract. McCarthy TC. **Vet Clin North Am Small Anim Pract** 1996 May;26(3):463–82 (16 ref.)

BIOPSY, CHORIONIC VILLI see **CHORIONIC VILLI SAMPLING**

BIOPSY, NEEDLE

Computed tomography-guided needle localization of nonpalpable breast lesions: review of 24 cases. Spillane RM, et al. **Acad Radiol** 1996 Feb;3(2):115–20

Thyroid nodules. Role of fine needle aspiration and intraoperative frozen section examination. Aguilar-Diosdado M, et al. **Acta Cytol** 1997 May–Jun; 41(3):677–82

Fine needle aspiration cytology as a diagnostic approach to lymphangioleiomyomatosis. A case report. Berner A, et al. **Acta Cytol** 1997 May–Jun;41(3):877–9

Potential pitfalls in the diagnosis of Castleman's disease of the mediastinum on fine needle aspiration biopsy [letter] Cangiarella J, et al. **Acta Cytol** 1997 May–Jun;41(3):951–2

Cytologic diagnosis of pancreatic cystic lesions. A prospective study of 28 percutaneous aspirates. Centeno BA, et al. **Acta Cytol** 1997 Jul–Aug;41(4):972–80

Multiparameter immunophenotypic analysis of fine needle aspiration biopsies and other hematologic specimens by laser scanning cytometry. Clatch RJ, et al. **Acta Cytol** 1997 Jan–Feb;41(1):109–22

Fine needle aspiration biopsy of salivary gland, 1985–1995. Cristallini EG, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1421–5

Tall cell variant of papillary thyroid carcinoma. A cytohistologic correlation. Gamboa-Domínguez A, et al. **Acta Cytol** 1997 May–Jun;41(3):672–6

Utility of fine needle aspiration in HIV-positive patients with corresponding CD4 counts. Four years' experience in a large inner city hospital. Grossl NA, et al. **Acta Cytol** 1997 May–Jun;41(3):811–6

Fine needle aspiration cytodiagnosis of primary and metastatic squamous cell carcinoma of the breast. Gupta RK. **Acta Cytol** 1997 May–Jun;41(3):692–6

Leukemia cutis. Fine needle aspiration findings. Kumar PV. **Acta Cytol** 1997 May–Jun;41(3):666–71

Aspiration cytology of ovarian cysts and cystic neoplasms. A study of 235 aspirates. Mulvany NJ. **Acta Cytol** 1996 Sep–Oct;40(5):911–20

Differential diagnosis of Hürthle cell neoplasms on fine needle aspirates. Can we do any better with morphometry? Pambuccian SE, et al. **Acta Cytol** 1997 Jan–Feb; 41(1):197–208

Fine needle aspiration biopsy of breast lesions and histopathologic correlation. An analysis of 837 cases in four years. Rocha PD, et al. **Acta Cytol** 1997 May–Jun; 41(3):705–12

Fine needle aspiration biopsy of metastatic malignant melanoma with "rhabdoid" features. Frequency, cytologic features, pitfalls and ancillary studies. Slagel DD, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1426–30

Diagnosis from thyroid aspirates. Is the cytopathologist handicapped if not fully informed about the patient? Szabolcs I, et al. **Acta Cytol** 1997 May–Jun;41(3):683–6

Clinical usefulness of endometrial aspiration cytology and CA-125 in the detection of fallopian tube carcinoma. Takeshima N, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1445–50

Anaplastic thyroid carcinoma in fine needle aspirates. Us-Krašovec M, et al. **Acta Cytol** 1996 Sep–Oct; 40(5):953–8

Fine needle aspiration cytology of pleomorphic adenoma. An analysis of 212 cases. Viguer JM, et al. **Acta Cytol** 1997 May–Jun;41(3):786–94

Fine needle aspiration biopsy of small/intermediate cell tumors in the liver. Considerations in a southeast Asian population. Wee A, et al. **Acta Cytol** 1996 Sep–Oct; 40(5):937–47

Cytohistologic correlation of nuclear grade in breast carcinoma. Zoppi JA, et al. **Acta Cytol** 1997 May–Jun; 41(3):701–4

Rapid cytological diagnosis of primary skin tumours and tumour-like conditions. Daskalopoulou D, et al. **Acta Derm Venereol** 1997 Jul;77(4):292–5

Preoperative fine needle aspiration from human breast cancer is a valuable sampling material for progesterone receptor and cytometric DNA analysis. Fernö M, et al. **Acta Oncol** 1996;35 Suppl 8:19–25

Ki-67 index in fine needle aspiration cytology specimens from primary and recurrent rectal cancer. Wiig JN, et al. **Acta Oncol** 1996;35 Suppl 8:119–21

Radiation dose at small intestinal biopsies in children: results of a national study. Persliden J, et al. **Acta Paediatr** 1996 Sep;85(9):1042–6

Ultrasound-guided fine-needle aspiration cytology of non-palpable supraclavicular lymph nodes in sarcoidosis. Lohela P, et al. **Acta Radiol** 1996 Nov;37(6):896–9

Use of abdominal compression as an aid to CT-guided retroperitoneal biopsies [letter] de Kerviler E, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1346–7

The role of transvaginal sonography and endometrial biopsy in the evaluation of peri- and postmenopausal bleeding. Dubinsky TJ, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):145–9

Rotational phantom for evaluating MR biopsy needle artifacts [letter] Hor CJ, et al. **AJR Am J Roentgenol** 1997 May;168(5):1383–4

Efficacy of sonography as a guidance technique for biopsy of abdominal, pelvic, and retroperitoneal lymph nodes. Memel DS, et al. **AJR Am J Roentgenol** 1996 Oct; 167(4):957–62

Contrast enhancement and quantitative signal analysis in MR imaging of multiple myeloma: assessment of focal and diffuse growth patterns in marrow correlated with biopsies and survival rates. Stäbler A, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1029–36

Fine-needle aspiration: technique and smear preparation. Lieu D. **Am Fam Physician** 1997 Feb 15;55(3):839–46, 853–4 (17 ref.)

Fine-needle aspiration of peripheral lymph nodes in patients with tuberculosis and HIV. Lapuerta P, et al. **Am J Clin Pathol** 1997 Mar;107(3):317–20

In search of specimen adequacy in fine-needle aspirates of nonpalpable breast lesions [see comments] Rubenchik I, et al. **Am J Clin Pathol** 1997 Jul;108(1):13–8. Comment in: Am J Clin Pathol 1997 Jul;108(1):1–3.

Specimen adequacy in breast fine-needle aspiration biopsy [editorial; comment] Schmidt WA, et al. **Am J Clin Pathol** 1997 Jul;108(1):1–3. Comment on: Am J Clin Pathol 1997 Jul;108(1):13–8.

Merkel cell carcinoma diagnosed by fine-needle aspiration. Gottschalk-Sabag S, et al. **Am J Dermatopathol** 1996 Jun; 18(3):269–72

Immunotactoid glomerulopathy: report of a case. Minami J, et al. **Am J Kidney Dis** 1997 Jul;30(1):160–3

Evaluation of the incidental adrenal mass [letter] Lee JE, et al. **Am J Med** 1997 Sep;103(3):249–50

Bronchiolitis obliterans syndrome in heart-lung transplantation: surveillance biopsies. Tamm M, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1705–10

Aspects of percutaneous fine-needle aspiration biopsy in the diagnosis of pancreatic carcinoma. Linder S, et al. **Am J Surg** 1997 Sep;174(3):303–6

Fine-needle aspiration cytology and thyroid surgery in the community hospital [letter] Raber W, et al. **Am J Surg** 1997 Aug;174(2):223

Implications of fine-needle aspiration in patients with resectable pancreatic cancer. Johnson DE, et al. **Am Surg** 1997 Aug;63(8):675–9; discussion 679–80

The abundant presence of Söderström bodies in cytology smears of fine-needle aspirates contributes to distinguishing high-grade non-Hodgkin's lymphoma from carcinoma and sarcoma. Bangerter M, et al. **Ann Hematol** 1997 Apr; 74(4):175–8

Endoscopic ultrasonography, fine-needle aspiration biopsy guided by endoscopic ultrasonography, and computed tomography in the preoperative staging of non-small-cell lung cancer: a comparison study [see comments] Gress FG, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):604–12 . Comment in: Ann Intern Med 1997 Oct 15;127(8 (Pt 1)):643–5.

Tissue is the issue: is endoscopic ultrasonography with or without fine-needle aspiration biopsy in the staging of non-small-cell lung cancer an advance? [editorial; comment] White P Jr, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):643–5. Comment on: Ann Intern Med 1997 Oct 15;127(8 (Pt 1)):604–12.

Re: Needle localization breast biopsy with reduction mammaplasty [letter; comment] Kayar R. **Ann Plast Surg** 1996 Sep;37(3):341–2. Comment on: Ann Plast Surg 1995 Oct;35(4):413–5.

Role of fine needle aspiration cytology in the management of the discrete parotid lump [letter] Lewis DR, et al. **Ann R Coll Surg Engl** 1997 Sep;79(5):386–7

Role of fine needle aspiration cytology in the management of the discrete parotid lump. McGurk M, et al. **Ann R Coll Surg Engl** 1997 May;79(3):198–202 (27 ref.)

Equivalent success of simultaneous pancreas kidney and solitary pancreas transplantation. A prospective trial of tacrolimus immunosuppression with percutaneous biopsy. Bartlett ST, et al. **Ann Surg** 1996 Oct;224(4):440–9; discussion 449–52

Core needle biopsy for diagnosis of extremity soft tissue sarcoma. Heslin MJ, et al. **Ann Surg Oncol** 1997 Jul–Aug; 4(5):425–31

Bone marrow biopsy in the diagnosis of fever of unknown origin in patients with acquired immunodeficiency syndrome. Benito N, et al. **Arch Intern Med** 1997 Jul 28; 157(14):1577–80

Granulomatous prostatitis on needle biopsy. Oppenheimer JR, et al. **Arch Pathol Lab Med** 1997 Jul;121(7):724–9

Usefulness of ultrasound-guided, fine-needle aspiration biopsy for palpable breast tumors. Hatada T, et al. **Arch Surg** 1996 Oct;131(10):1095–8

Stereotactic fine needle aspiration in the management of mammographic abnormalities detected in breast screening [see comments] Chan MC, et al. **Aust N Z J Surg** 1996 Sep;66(9):595–7. Comment in: Aust N Z J Surg 1996 Sep;66(9):577–9.

The evolving role of fine needle cytology and core-biopsy in the diagnosis of breast cancer [editorial; comment] Kitchen PR, et al. **Aust N Z J Surg** 1996 Sep;66(9):577–9 . Comment on: Aust N Z J Surg 1996 Sep;66(9):585–91. Comment on: Aust N Z J Surg 1996 Sep;66(9):592–4. Comment on: Aust N Z J Surg 1996 Sep;66(9):595–7.

Diagnosis of breast cancer with core-biopsy and fine needle aspiration cytology [see comments] Poole GH, et al. **Aust N Z J Surg** 1996 Sep;66(9):592–4. Comment in: Aust N Z J Surg 1996 Sep;66(9):577–9.

Investigation of 100 consecutive negative cone biopsies. Golbang P, et al. **Br J Obstet Gynaecol** 1997 Jan; 104(1):100–4

Training phantom for ultrasound guided biopsy. Nicholson RA, et al. **Br J Radiol** 1997 Feb;70:192–4

Feasibility of obtaining breast epithelial cells from healthy women for studies of cellular proliferation. Miller NA, et al. **Breast Cancer Res Treat** 1997 May;43(3):201–9

Evaluating prostate needle biopsy: therapeutic and prognostic importance. Bostwick DG. **CA Cancer J Clin** 1997 Sep–Oct;47(5):297–319 (135 ref.)

Fine-needle aspiration cytology of pleomorphic lobular carcinoma of the breast. Comparison with the classic type [see comments] Auger M, et al. **Cancer** 1997 Feb 25; 81(1):29–32. Comment in: Cancer 1997 Feb 25;81(1):1–2.

Fine-needle aspiration cytopathology of malignant fibrous

histiocytoma. Berardo MD, et al. **Cancer** 1997 Aug 25; 81(4):228–37

Fine-needle aspiration biopsy in the diagnosis and management of bone lesions: a study of 450 cases. Bommer KK, et al. **Cancer** 1997 Jun 25;81(3):148–56

Can nonproliferative breast disease and proliferative breast disease without atypia be distinguished by fine-needle aspiration cytology? Frost AR, et al. **Cancer** 1997 Feb 25; 81(1):22–8

A spectrum of cytomorphologic variations in medullary thyroid carcinoma. Fine-needle aspiration findings in 19 cases. Green I, et al. **Cancer** 1997 Feb 25;81(1):40–4

What constitutes an adequate smear in fine-needle aspiration cytology of the breast? [see comments] Layfield LJ, et al. **Cancer** 1997 Feb 25;81(1):16–21. Comment in: Cancer 1997 Feb 25;81(1):1–2. Comment in: Cancer 1997 Feb 25;81(1):3–5.

Probabilistic approach to the reporting of fine-needle aspiration cytology of the breast [see comments] Page DL, et al. **Cancer** 1997 Feb 25;81(1):6–9 (23 ref.). Comment in: Cancer 1997 Feb 25;81(1):1–2.

Fine-needle aspiration of the adult kidney. Renshaw AA, et al. **Cancer** 1997 Apr 25;81(2):71–88 (154 ref.)

The vascular architecture of renal cell carcinoma in fine-needle aspiration biopsies. An aid in its distinction from hepatocellular carcinoma. Weir M, et al. **Cancer** 1997 Feb 25;81(1):45–50

Detection of p53 gene mutations in fine-needle aspiration biopsied breast cancer specimens: correlations with nuclear p53 accumulations and tumor DNA aneuploidy patterns. Sato T, et al. **Cancer Lett** 1997 May 1;115(1):47–55

Comparison of the clinical diagnostic value between pleural needle biopsy and analysis of pleural effusion. Chen NH, et al. **Chang Keng I Hsueh** 1997 Mar;20(1):11–6

Relevance of training in transbronchial fine-needle aspiration technique. Rodríguez de Castro F, et al. **Chest** 1997 Jan; 111(1):103–5

Specific antibiotic therapy by needle-aspiration for the treatment of osteomyelitis of the pubis. A description of two clinical cases. Corezzola R, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):311–6 **(Eng, Ita)**

Monoclonal antibody imaging of occult prostate cancer in patients with elevated prostate-specific antigen. Positron emission tomography and biopsy correlation. Haseman MK, et al. **Clin Nucl Med** 1996 Sep;21(9):704–13

Histological examination of clots from cytological specimens: is this a worthwhile procedure? Addey A, et al. **Cytopathology** 1996 Apr;7(2):120–4

Fine needle aspiration (FNA) cytology of the breast: the influence of unsatisfactory samples on patient management. Lazda EJ, et al. **Cytopathology** 1996 Aug;7(4):262–7

The uniform approach to breast fine-needle aspiration biopsy. National Cancer Institute Fine-Needle Aspiration of Breast Workshop Subcommittees. **Diagn Cytopathol** 1997 Apr; 16(4):295–311

Fine-needle aspiration biopsy in the diagnosis of parotid gland lesions: evaluation of 438 biopsies. Atula T, et al. **Diagn Cytopathol** 1996 Sep;15(3):185–90

Fine-needle aspiration diagnosis of enterogenous cyst of the orbit: a case report. Ballesteros E, et al. **Diagn Cytopathol** 1997 May;16(5):450–3

Role of fine-needle aspiration cytology in the preoperative evaluation of smooth muscle tumors. Barbazza R, et al. **Diagn Cytopathol** 1997 Apr;16(4):326–30

Use of fine-needle aspiration biopsy in the evaluation of splenic lesions in a cancer center. Caraway NP, et al. **Diagn Cytopathol** 1997 Apr;16(4):312–6

Fine-needle aspiration biopsy of metaplastic carcinoma of the breast: report of a case with abundant myxoid ground substance. Castellà E, et al. **Diagn Cytopathol** 1996 Jun; 14(4):325–7

Fine-needle aspiration diagnosis of carotid body tumor: report of a case and review of experience with cytologic features in four cases. Das DK, et al. **Diagn Cytopathol** 1997 Aug;17(2):143–7

Fine-needle aspiration of inflammatory carcinoma of the breast. Dodd LG, et al. **Diagn Cytopathol** 1996 Dec; 15(5):363–6

Combining fine-needle aspiration and flow cytometric immunophenotyping in evaluation of nodal and extranodal sites for possible lymphoma: a retrospective review. Dunphy CH, et al. **Diagn Cytopathol** 1997 Mar;16(3):200–6 (16 ref.)

Needle biopsy of the adrenal gland: retrospective review of 54 cases. Dusenbery D, et al. **Diagn Cytopathol** 1996 Mar; 14(2):126–34

Fine-needle biopsy of pediatric lesions: a three-year study in an outpatient biopsy clinic. Eisenhut CC, et al. **Diagn Cytopathol** 1996 Feb;14(1):43–50

Papillary tissue fragments as a diagnostic pitfall in fine-needle aspirations of thyroid nodules. Faser CR, et al. **Diagn Cytopathol** 1997 May;16(5):454–9

Posttransplant lymphoproliferative disorders: a fine-needle aspiration biopsy study. Gattuso P, et al. **Diagn Cytopathol** 1997 May;16(5):392–5

Is there a role for fine-needle aspiration in radial scar/complex sclerosing lesions of the breast? Greenberg ML, et al. **Diagn Cytopathol** 1997 Jun;16(6):537–42

Fine-needle aspiration cytodiagnosis of recurrent carcinoma of the breast in operative scars. Gupta RK. **Diagn Cytopathol** 1997 Jan;16(1):14–6

Fine-needle aspiration cytodiagnosis of adenoid cystic carcinoma of the breast. Gupta RK, et al. **Diagn Cytopathol** 1996 Jun;14(4):328–30

Fine-needle aspiration of low grade adenosquamous carcinoma of the breast. Krigman HR, et al. **Diagn Cytopathol** 1996 Jun;14(4):321–4

FNA biopsy diagnosis of HCC [letter; comment] Kung IT, et al. **Diagn Cytopathol** 1997 Jun;16(6):551. Comment on: Diagn Cytopathol 1995 May;12(3):208–14.

Fine-needle aspiration cytology findings in a case of aggressive angiomyxoma: a case report and review of the literature. Layfield LJ, et al. **Diagn Cytopathol** 1997 May; 16(5):425–9 (10 ref.)

Fine-needle aspiration of thyroid lesions in 57 pregnant and postpartum women. Marley EF, et al. **Diagn Cytopathol** 1997 Feb;16(2):122–5

Utility of fine-needle aspiration in the diagnosis of granulomatous lesions of the breast. Martínez-Parra D, et al. **Diagn Cytopathol** 1997 Aug;17(2):108–14

Intraoperative consultation in ovarian lesions: a comparison between cytology and frozen section. Michael CW, et al. **Diagn Cytopathol** 1996 Dec;15(5):387–94

Fine-needle biopsy of breast: when is enough, enough? Moriarty AT. **Diagn Cytopathol** 1995 Dec;13(5):373–4

Needle aspiration cytology of low-grade transitional cell carcinoma of the renal pelvis. Nguyen GK, et al. **Diagn Cytopathol** 1997 May;16(5):437–41

Fine-needle aspiration cytology in the diagnosis of superficial lymphadenopathy: an analysis of 2,418 cases. Prasad RR, et al. **Diagn Cytopathol** 1996 Dec;15(5):382–6

Adenoid cystic carcinoma of the breast: utility of immunocytochemical study with collagen IV on fine-needle aspiration. Quinodoz IS, et al. **Diagn Cytopathol** 1997 May;16(5):442–5

Preoperative assessment of proliferative activity and hormonal receptor status in carcinoma of the breast: a comparison of needle aspiration and needle-core biopsies to the surgical specimen. Railo M, et al. **Diagn Cytopathol** 1996 Sep;15(3):205–10

Percutaneous needle biopsy diagnosis of benign neurogenic neoplasms. Resnick JM, et al. **Diagn Cytopathol** 1997 Jan; 16(1):17–25

The breast and aspirate-outside the ivory tower [editorial] Rollins SD. **Diagn Cytopathol** 1997 Mar;16(3):197–9

Ancillary studies in FNA of liver and pancreas. Silverman JF, et al. **Diagn Cytopathol** 1995 Dec;13(5):396–410 (151 ref.)

Diagnostic pitfalls in fine-needle aspiration biopsy of the mediastinum. Singh HK, et al. **Diagn Cytopathol** 1997 Aug; 17(2):121–6

Riu's stain and the cytologic diagnosis of thyroid fine-needle aspiration: a single cancer center experience. Tsou MH, et al. **Diagn Cytopathol** 1997 Jun;16(6):543–7

Thymic epithelial cells as a diagnostic pitfall in the fine-needle aspiration diagnosis of primary mediastinal lymphoma. Yu GH, et al. **Diagn Cytopathol** 1997 May; 16(5):460–5

Combined factor IX and XI deficiency discovered at liver biopsy. Hunt CM, et al. **Dig Dis Sci** 1997 Aug;42(8):1731–3

Langerhans cell histiocytosis with an anterior mediastinal mass involving calcification: confirmation by needle biopsy [letter] Kawasaki K, et al. **Eur J Pediatr** 1997 Jan; 156(1):81–2

The diagnostic accuracy of core biopsy in palpable and non-palpable breast lesions. Pijnappel RM, et al. **Eur J Radiol** 1997 Feb;24(2):120–3

Follow-up of prostatic intraepithelial neoplasia. Berner A, et al. **Eur Urol** 1996;30(2):256–60 (49 ref.)

Indications for preoperative seminal vesicle biopsies in staging of clinically localized prostatic cancer. Guillonneau B, et al. **Eur Urol** 1997;32(2):160–5

Results of rebiopsy for suspected prostate cancer in symptomatic men with elevated PSA levels. Perachino M, et al. **Eur Urol** 1997;32(2):155–9

Endosonography-guided fine-needle aspiration biopsy: diagnostic accuracy and complication assessment. Wiersema MJ, et al. **Gastroenterology** 1997 Apr; 112(4):1087–95

Endoscopic ultrasound-guided fine-needle aspiration biopsy and interventional endoscopic ultrasonography. Emerging technologies. Chang KJ, et al. **Gastrointest Endosc Clin N Am** 1997 Apr;7(2):221–35 (62 ref.)

Fine-needle aspiration in the diagnosis of metastatic ovarian cancer to the breast. Hennigan CA, et al. **Gynecol Oncol** 1997 Mar;64(3):533–40 (32 ref.)

Normal rectal mucosa. Should we biopsy? Robinson RJ, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):703–5

Telepathology diagnosis of prostrate needle biopsies. Weinstein MH, et al. **Hum Pathol** 1997 Jan;28(1):22–9

Testicular needle aspiration as an alternative to biopsy for the assessment of spermatogenesis. Craft I, et al. **Hum Reprod** 1997 Jul;12(7):1483–7

The value of immediate cytologic evaluation for needle aspiration lung biopsy. Padhani AR, et al. **Invest Radiol** 1997 Aug;32(8):453–8

Specimen mammography-guided fine-needle aspirates of clinically occult benign and malignant lesions. Analysis of cell number and type. Stomper PC, et al. **Invest Radiol** 1997 May;32(5):277–81

Utility of Wang transbronchial needle biopsy in sarcoidosis. Leonard C, et al. **Ir J Med Sci** 1997 Jan-Mar;166(1):41–3

Fine-needle biopsy in focal liver lesions: the usefulness of a screening programme and the role of cytology and microhistology. Herszenyi L, et al. **Ital J Gastroenterol** 1995 Dec;27(9):473–8

Viral load and immunophenotype of cells obtained from lymph nodes by fine needle aspiration as compared with peripheral blood cells in HIV-infected patients. Meylan PR, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Sep; 13(1):39–47

The utility of fine needle aspiration in the diagnosis of melanoma metastatic to lymph nodes. Basler GC, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):403–8

Prilocaine/lidocaine patch as a local premedication for skin biopsy in children. de Waard-van der Spek FB, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):418–21

Image-guided core-needle biopsy in malignant lymphoma: experience with 100 patients that suggests the technique is reliable [see comments] Ben-Yehuda D, et al. **J Clin Oncol** 1996 Sep;14(9):2431–4. Comment in: J Clin Oncol 1996 Sep;14(9):2415–6.

Role of image-guided core-needle biopsy in the management of patients with lymphoma. Pappa VI, et al. **J Clin Oncol** 1996 Sep;14(9):2427–30

Needle biopsy in malignant lymphoma [editorial; comment] Pinkus GS. **J Clin Oncol** 1996 Sep;14(9):2415–6. Comment on: J Clin Oncol 1996 Sep;14(9):2431–4.

Fine needle aspiration cytology. Ansari NA, et al. **J Clin Pathol** 1997 Jul;50(7):541–3

Needle core biopsy [letter] Rush JC. **J Fla Med Assoc** 1996 Mar;83(3):212

Solitary nodule of the thyroid and the role of fine needle aspiration cytology in diagnosis. Dorairajan N, et al. **J Indian Med Assoc** 1996 Feb;94(2):50–2, 61

The accuracy of mammography: a comparison with fine needle aspiration cytology. Charnvises S. **J Med Assoc Thai** 1996 Jan;79(1):27–30

Balo's concentric sclerosis: a clinical case study of brain MRI, biopsy, and proton magnetic resonance spectroscopic findings. Kim MO, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):655–8

Regional methionine and glucose uptake in high-grade gliomas: a comparative study on PET-guided stereotactic biopsy. Goldman S, et al. **J Nucl Med** 1997 Sep; 38(9):1459–62

An analysis of fine-needle aspiration biopsy of the thyroid in children and adolescents. Degnan BM, et al. **J Pediatr Surg** 1996 Jul;31(7):903–7

Correlation between Gleason score of needle biopsy and radical prostatectomy specimen: accuracy and clinical implications [see comments] Cookson MS, et al. **J Urol** 1997 Feb;157(2):559–62. Comment in: J Urol 1997 Feb;157(2):563–4.

Nonpalpable Leydig's cell tumors diagnosed by fine needle aspiration. Freedland SJ, et al. **J Urol** 1997 Aug; 158(2):543–4

Effect of digital rectal examination and needle biopsy on serum total and percentage of free prostate specific antigen levels [see comments] Ornstein DK, et al. **J Urol** 1997 Jan; 157(1):195–8. Comment in: J Urol 1997 Jan;157(1):207–8.

Needle localization of non-palpable breast lesions. Khan S, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):149–52

Percutaneous needle biopsy in exudative ascites. Shah LA, et al. **JPMA J Pak Med Assoc** 1996 Nov;46(11):260–1

Fine needle aspiration cytology in parotid lumps. Zafar A, et al. **JPMA J Pak Med Assoc** 1997 Jul;47(7):188–90

Biopsy needle susceptibility artifacts. Ladd ME, et al. **Magn Reson Med** 1996 Oct;36(4):646–51

Fine needle aspiration cytology in the diagnosis of bone tumours. Jayaram G, et al. **Malays J Pathol** 1994 Dec; 16(2):137–44

Solitary cold thyroid nodules -- a correlation of fine needle aspiration cytology with pentavalent technetium DMSA scanning and radionuclide perfusion scanning. Natarajan V, et al. **Malays J Pathol** 1994 Dec;16(2):127–35

The role of large core needle biopsy in locally advanced breast cancer. Pace ME, et al. **Md Med J** 1997 Sep; 46(8):419–23

Importance of the day 7 bone marrow biopsy as a prognostic measure of the outcome in children with acute lymphoblastic leukemia. Schultz KR, et al. **Med Pediatr Oncol** 1997 Jul;29(1):16–22

Fine needle aspiration for flow cytometry immunophenotyping of non Hodgkin lymphoma. Sapia S, et al. **Medicina (B Aires)** 1995;55(6):675–80

Fine-needle aspiration cytology of the breast: a preliminary report on telepathology through Internet multimedia electronic mail. Della Mea V, et al. **Mod Pathol** 1997 Jun; 10(6):636–41

Correspondence re: Huston BM, Malouf NN, Azar HA. Percutaneous needle autopsy sampling. Mod Pathol 1996;9:1101–7 [letter; comment] Mensch AH. **Mod Pathol** 1997 Apr;10(4):394. Comment on: Mod Pathol 1996 Dec;9(12):1101–7.

Percutaneous biopsy of the thoracic spine [published erratum of serious dosage error appears in Neurosurg Clin N Am 1997 Jul;8(3):1] Donaldson WF 3rd, et al. **Neurosurg Clin N Am** 1996 Jan;7(1):135–44 (38 ref.)

Automated percutaneous biopsy in the diagnosis and treatment of infectious discitis. Onik G. **Neurosurg Clin N Am** 1996 Jan;7(1):145–50

Fine-needle biopsy and retinoblastoma [letter; comment] Robertson DM. **Ophthalmology** 1997 Apr;104(4):567–8.

Comment on: Ophthalmology 1996 Jun;103(6):949–52.
Quantitative and qualitative AgNORs rates of prostate cancer on needle core biopsies: a multicentric study. Botticelli AR, et al. **Pathologica** 1995 Dec;87(6):624–30
Fine needle aspiration of myofibroblastoma of the breast. Case report. Negri S, et al. **Pathologica** 1995 Dec; 87(6):719–22
Fine-needle aspiration of lymph nodes: use of flow cytometry immunophenotyping. Cha I, et al. **Pathology (Phila)** 1996; 4(2):337–64 (50 ref.)
Fine-needle aspiration of soft tissue lesions. Epstein HD. **Pathology (Phila)** 1996;4(2):463–92 (69 ref.)
Fine-needle aspiration diagnosis of HIV-related conditions. Hanks D, et al. **Pathology (Phila)** 1996;4(2):221–52 (33 ref.)
Fine-needle aspiration of the pancreas. Hughes JH, et al. **Pathology (Phila)** 1996;4(2):389–407 (66 ref.)
Fine-needle aspiration cytology of the thyroid. Jeffrey PB, et al. **Pathology (Phila)** 1996;4(2):319–35 (31 ref.)
Fine-needle aspiration of the lung. Jeffrey PB. **Pathology (Phila)** 1996;4(2):439–61 (42 ref.)
Fine-needle aspiration of the head and neck. Layfield LJ. **Pathology (Phila)** 1996;4(2):409–38 (77 ref.)
The factors important for successful fine-needle aspiration biopsies: a comparative study of breast diagnoses at two hospitals. Ljung BM, et al. **Pathology (Phila)** 1996; 4(2):493–8
Fine-needle aspiration biopsy of the liver: diagnostic problems. Ljung BM, et al. **Pathology (Phila)** 1996; 4(2):365–88 (31 ref.)
Fine-needle aspiration biopsy [editorial] Ljung BM. **Pathology (Phila)** 1996;4(2):ix–xi
Fine-needle aspiration of the breast. Sanchez MA, et al. **Pathology (Phila)** 1996;4(2):253–86 (33 ref.)
Fine-needle aspiration of the salivary glands. Zarka MA. **Pathology (Phila)** 1996;4(2):287–318 (52 ref.)
On HRCT-guided lung biopsy [letter; comment] Spencer DA, et al. **Pediatr Pulmonol** 1997 Feb;23(2):127–8. Comment on: Pediatr Pulmonol 1996 Aug;22(2):81–2. Comment on: Pediatr Pulmonol 1996 Aug;22(2):83–4.
Combined percutaneous lung biopsy and high-resolution computed tomography in the diagnosis and management of lung disease in children [see comments] Spencer DA, et al. **Pediatr Pulmonol** 1996 Aug;22(2):111–6. Comment in: Pediatr Pulmonol 1996 Aug;22(2):83.
Fine-needle aspiration of the liver and pancreas: a cytology primer for radiologists. Dodd LG, et al. **Radiology** 1997 Apr;203(1):1–9 (58 ref.)
Small lymph nodes of the abdomen, pelvis, and retroperitoneum: usefulness of sonographically guided biopsy. Fisher AJ, et al. **Radiology** 1997 Oct;205(1):185–90
Liver hemangioma: US-guided 18-gauge core-needle biopsy. Heilo A, et al. **Radiology** 1997 Sep;204(3):719–22
Needle-localized breast biopsy: why do we fail? Jackman RJ, et al. **Radiology** 1997 Sep;204(3):677–84
Fine-needle biopsy specimens of benign breast lesions distinguished from invasive cancer ex vivo with proton MR spectroscopy. Mackinnon WB, et al. **Radiology** 1997 Sep;204(3):661–6
US-guided fine-needle aspiration cytology of neck nodes in patients with N0 disease [letter; comment] van den Brekel MW. **Radiology** 1996 Nov;201(2):580–1. Comment on: Radiology 1996 Mar;198(3):819–23.
Transthoracic needle biopsy of small pulmonary nodules. Westcott JL, et al. **Radiology** 1997 Jan;202(1):97–103
Fine needle aspiration biopsy of the liver. Mederle O, et al. **Rom J Morphol Embryol** 1996 Jul–Dec;42(3–4):161–7
Study on ultrasonically guided fine-needle aspiration cytology for breast disorders with high-resolution transducer. Kubota M. **Tokai J Exp Clin Med** 1996 Feb; 21(1):7–12
Prospective evaluation of fine needle aspiration of small, solid renal masses: accuracy and morbidity. Campbell SC, et al. **Urology** 1997 Jul;50(1):25–9
Systematic fine-needle aspiration of the testis: correlation to biopsy and results of organ "mapping" for mature sperm in azoospermic men. Turek PJ, et al. **Urology** 1997 May; 49(5):743–8
Role of PSA and its indices in determining the need for repeat prostate biopsies. Ukimura O, et al. **Urology** 1997 Jul; 50(1):66–72
The Turner biopsy needle facilitates seminal vesicle aspiration. Werthman P, et al. **Urology** 1997 Aug; 50(2):277–8
Percutaneous needle biopsy of the pancreas: when should it be performed? Tillou A, et al. **World J Surg** 1996 Mar–Apr;20(3):283–6; discussion 287
Thyroid cancer detected by ultrasound-guided fine-needle aspiration biopsy. Yokozawa T, et al. **World J Surg** 1996 Sep;20(7):848–53; discussion 853
[Conversion of cyclosporin A therapy to conventional treatment with diagnostic use of aspiration biopsy in kidney transplantation] Matl I, et al. **Cas Lek Cesk** 1997 Mar 12; 136(5):142–5 (Eng. Abstr.) **(Cze)**
[Preoperative needle biopsy: an improvement in palpable breast tumors with strong indications for malignancy] Zonderland HM, et al. **Ned Tijdschr Geneeskd** 1996 Sep 28;140(39):1952–6 (Eng. Abstr.) **(Dut)**
[Hepatic metastases disclosed by laparoscopy and echographic laparoscopy. Impact of ultrasound-guided biopsy] Court-Payen M, et al. **Ann Chir** 1997;51(4):318–25 (Eng. Abstr.) **(Fre)**
[Stereotaxic mammary microbiopsy. I. Technical aspects] Thiesse P, et al. **Ann Chir** 1996;50(6):457–62 (32 ref.) (Eng. Abstr.) **(Fre)**
[Role of guided fine needle punction in the diagnosis of deep-seated Aids-related infections. Report of a case of hepato-nodal histoplasmosis] Longchampt E, et al. **Ann Pathol** 1996 Sep;16(4):266–70 (12 ref.) (Eng. Abstr.) **(Fre)**
[Role of microbiopsies in the therapeutic and diagnostic approach in cases of mammary microcalcification: preliminary results] Merviel P, et al. **Bull Cancer** 1996 Jul; 83(7):573–80 (25 ref.) (Eng. Abstr.) **(Fre)**
[Should hepatitis C be treated? Value of hepatic biopsy in the management of patients with chronic hepatitis C virus infection?] Deugnier Y. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S51–6 (41 ref.) **(Fre)**
[Guided puncture-biopsy under endosonography (editorial)] Giovannini M. **Gastroenterol Clin Biol** 1997;21(5):355–7 (10 ref.) **(Fre)**
[Should kidney biopsy be performed in patients with cirrhosis?] Mal F, et al. **Gastroenterol Clin Biol** 1996; 20(8–9):661–2 **(Fre)**
[Value of fine-needle aspiration and extemporaneous examination in thyroid surgery. A prospective study of 1235 fine-needle aspirations and extemporaneous examinations in 846 patients] Becouarn G, et al. **J Chir (Paris)** 1996 Jul;133(5):214–21 (53 ref.) (Eng. Abstr.) **(Fre)**
[Percutaneous hepatic puncture biopsy in ambulatory care. 231 patients] Bourgaux JF, et al. **Presse Med** 1997 Mar 1;26(6):262–4 (Eng. Abstr.) **(Fre)**
[Isolated thyroid nodule. Comparative value of cyto-puncture and scintigraphy] Duquenne M, et al. **Presse Med** 1997 Apr 5;26(11):507–11 (Eng. Abstr.) **(Fre)**
[Hepatic puncture biopsy in ambulatory care. Advantages and disadvantages (editorial)] Nouel O. **Presse Med** 1997 Mar 1;26(6):260–1 (Eng. Abstr.) **(Fre)**
[Puncture biopsy of the prostate] Lechevallier E. **Prog Urol** 1996 Aug–Sep;6(4):507–18 (Eng. Abstr.) **(Fre)**
[Diagnostic percutaneous thoracic punctures. Assessment through a critical study of a compliation of 2406 cases] Giron J, et al. **Rev Mal Respir** 1996 Dec;13(6):583–90 (Eng. Abstr.) **(Fre)**
[Reliability of needle biopsy of solitary thyroid nodules in view of surgical indications] Moisson-Meer A, et al. **Rev Med Interne** 1996;17(9):732–7 (36 ref.) (Eng. Abstr.) **(Fre)**
[CT-guided core needle biopsy of abdominal, pelvic and retroperitoneal masses] Sklair-Levy M, et al. **Harefuah** 1997 Mar 2;132(5):318–23, 382 (Eng. Abstr.) **(Heb)**
[Aspiration cytology in the diagnosis of gastrointestinal tumors] Vámosi-Nagy I, et al. **Orv Hetil** 1996 Nov 3; 137(44):2455–7 (Eng. Abstr.) **(Hun)**
[Diagnostic framework of nonpalpable lesions of the breast] Ciatto S, et al. **Chir Ital** 1995;47(4):5–8 (Eng. Abstr.) **(Ita)**
[The role of fine needle biopsy in the cytologic diagnosis of thyroid nodules] Greco L, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):57–9 (Eng. Abstr.) **(Ita)**
[Evaluation of the role of repeat needle biopsy in the diagnosis and follow-up of thyroid nodules] Morosini PP, et al. **Minerva Endocrinol** 1996 Jun;21(2):59–62 (Eng. Abstr.) **(Ita)**
[Fine needle biopsy in the preoperative diagnosis of parotid tumors] Berrone S, et al. **Minerva Stomatol** 1995 Nov; 44(11):515–9 (Eng. Abstr.) **(Ita)**
[Genetic diagnosis of pelvic lymph node metastasis using fine needle aspiration samples in prostate cancer] Hoshi S, et al. **Hinyokika Kiyo** 1996 Oct;42(10):781–5 (Eng. Abstr.) **(Jpn)**
[Genetic diagnosis of pelvic lymph node metastasis in prostate cancer using aspiration biopsy samples] Takahashi T, et al. **Rinsho Byori** 1996 Dec;44(12):1183–8 (Eng. Abstr.) **(Jpn)**
[A new biopsy needle in the laryngological diagnosis] Latkowski B, et al. **Otolaryngol Pol** 1995;49(5):480–2 (Eng. Abstr.) **(Pol)**
[Puncture methods of the diagnosis and treatment under the control of US, CT and X-ray video image] Nudnov NV, et al. **Vestn Rentgenol Radiol** 1997 Mar–Apr;(2):26–30 (Eng. Abstr.) **(Rus)**
[The results of cytologic diagnosis of thyroid diseases (20 years experience)] Novik VI, et al. **Vopr Onkol** 1997; 43(2):202–5 (Eng. Abstr.) **(Rus)**
[Correlation of cytologic and pathohistologic findings in ultrasonically-guided thin-needle biopsy of abdominal and retroperitoneal organs] Bokun R, et al. **Vojnosanit Pregl** 1997 May–Jun;54(3):223–6 (Eng. Abstr.) **(Scr)**
[Ultrasound guided percutaneous biopsy of the kidney] Kovačević Z, et al. **Vojnosanit Pregl** 1996 Mar–Apr; 53(2):111–5 (Eng. Abstr.) **(Scr)**
[Clinical utility of available diagnostic tests in prostatic carcinoma. Results of 500 biopsies. I. PSA, PSA density, and predicted PSA] Rodríguez Rodríguez R, et al. **Arch Esp Urol** 1997 May;50(4):333–8 (Eng. Abstr.) **(Spa)**
[Clinical utility of available diagnostic tests in prostatic carcinoma.Results of 500 biopsies. II. Rectal palpation, PSA, and transrectal echography] Rodríguez Rodríguez R, et al. **Arch Esp Urol** 1997 May;50(4):339–45 (Eng. Abstr.) **(Spa)**
[Mammary tumor puncture with fine needle] Villarreal-Chávez R, et al. **Ginecol Obstet Mex** 1996 Jul; 64:316–8 (Eng. Abstr.) **(Spa)**
[The applicability and diagnostic effectiveness of transjugular liver biopsy] Trejo R, et al. **Med Clin (Barc)** 1996 Oct 26; 107(14):521–3 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Fine needles with echo markers: increasing cell dragging during biopsy [letter] Buscarini E, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1246–9
Air embolism and fine needle aspiration [letter] Fowler LJ, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1633–4
Abdominal wall tumor seeding at sonographically guided needle-core aspiration biopsy of hepatocellular carcinoma [letter] Kanematsu M, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1198–9
Postural hemodilution in nephrotic edema: a cause of spurious hemorrhage after renal biopsy. Clive DM. **Am J Kidney Dis** 1997 Apr;29(4):627–30
Accuracy of mammographic appearances after breast fine-needle aspiration. Hindle WH, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1286–90; discussion 1290–2
Needle tract recurrences after closed biopsy for sarcoma: three cases and review of the literature. Schwartz HS, et al. **Ann Surg Oncol** 1997 Apr–May;4(3):228–36 (58 ref.)
Cerebral artery gas embolism (CAGE) following fine needle aspiration biopsy of the lung [letter] Khatri S. **Aust N Z J Med** 1997 Jun;27(3):338
Reducing the risk of needle-stick injury during orbital fine-needle aspiration biopsy. Ing E, et al. **Can J Ophthalmol** 1996 Apr;31(3):124–5
Two cases of lethal complications following ultrasound-guided percutaneous fine-needle biopsy of the liver. Drinković I, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):360–3
Pneumothorax risk prediction in lung needle biopsy by pulmonary function tests [letter; comment] García-Río F, et al. **Chest** 1997 Apr;111(4):1141–2. Comment on: Chest 1996 Mar;109(3):612–5.
Artifactual smear contamination by cancer cells caused by improper specimen expulsion during fine-needle aspiration [letter] Ascoli V. **Diagn Cytopathol** 1996 Mar;14(2):189–90
Post-fine-needle biopsy infarction of thyroid neoplasms: a review of 28 cases. Kini SR. **Diagn Cytopathol** 1996 Sep; 15(3):211–20
Massive haemobilia after percutaneous liver biopsy in a patient with POEMS syndrome successfully treated by arterial embolization. Grieco A, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):595–8 (20 ref.)
Implantation metastases from gastrointestinal cancer after percutaneous puncture or biliary drainage. Andersson R, et al. **Eur J Surg** 1996 Jul;162(7):551–4
Subpleural haematoma presenting as a 'pseudotumour' following fine-needle aspiration biopsy of the breast. Chadwick DR, et al. **Eur J Surg Oncol** 1996 Dec; 22(6):638–9
Systemic arterial air embolism and tension pneumothorax: two complications of transthoracic percutaneous thin-needle biopsy in the same patient. Regge D, et al. **Eur Radiol** 1997;7(2):173–5
False aneurysm of a lumbar artery following vertebral biopsy. Stevens KJ, et al. **Eur Spine J** 1997;6(3):205–7
Iatrogenic rupture of internal carotid artery aneurysm. A complication of CT-guided needle biopsy of the neck. Porcellini M, et al. **G Chir** 1996 Oct;17(10):531–3
Arterioportal fistula and hemobilia with associated acute cholecystitis: a complication of percutaneous liver biopsy. Cacho G, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):1020–3
Traumatic arterial damage after fine-needle aspirational cytology in mammary complex sclerosing lesions. Davies JD, et al. **Histopathology** 1996 Jan;28(1):65–70
Surgical repair of aneurysm in the transplanted kidney following a percutaneous needle biopsy. Yagisawa T, et al. **Int Urol Nephrol** 1996;28(5):729–32
Chest wall metastasis after percutaneous fine-needle aspiration biopsy. Sing RF, et al. **J Am Osteopath Assoc** 1996 Sep;96(9):546–7
Liver biopsy as a cause of Streptococcus bovis peritonitis. Macedo G, et al. **J Clin Gastroenterol** 1997 Jun;24(4):292–3
Transient subsegmental hepatic parenchymal enhancement on dynamic CT: a sign of postbiopsy arterioportal shunt. Lee SJ, et al. **J Comput Assist Tomogr** 1997 May–Jun; 21(3):355–60
Antibiotic prophylaxis in ultrasound guided transrectal prostate biopsy. Sieber PR, et al. **J Urol** 1997 Jun; 157(6):2199–200 (13 ref.)
Use of a large-diameter coring needle to remove a foreign body [letter] Althaus SJ, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):481–2
Biliary venous fistula: an unusual complication of fine-needle aspiration biopsy of the liver. Patel RI, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):953–6
Implantation metastasis of primary malignant rhabdoid tumor of the brain in an adult (one case report). Ashraf R, et al. **Med Pediatr Oncol** 1997 Mar;28(3):223–7
Percutaneous biopsy of operable liver lesions: is it necessary or advisable? Jourdan JL, et al. **N Z Med J** 1996 Dec 13; 109(1035):469–70
Percutaneous liver biopsy complications in patients with chronic renal failure [letter] Ozdoğan M, et al. **Nephron**

1996;74(2):442–3

Superselective embolization in the treatment of active bleeding after percutaneous renal biopsy [letter] Park SB, et al. **Nephron** 1996;73(2):363–4

Safety and cost effectiveness of pediatric percutaneous renal biopsy. Chesney DS, et al. **Pediatr Nephrol** 1996 Aug; 10(4):493–5

Day care renal biopsy. White RH, et al. **Pediatr Nephrol** 1996 Aug;10(4):408–11

Gallbladder pseudopolyp formation following percutaneous liver biopsy. Barzilai M, et al. **Pediatr Surg Int** 1997 Jul; 12(5–6):422–3

Pitfalls in CT-guided transthoracic needle biopsy of pulmonary nodules. Yankelevitz DF, et al. **Radiographics** 1996 Sep;16(5):1073–84

Outpatient treatment of iatrogenic pneumothorax after needle biopsy. Brown KT, et al. **Radiology** 1997 Oct;205(1):249–52

Bacteremia following liver biopsy in transplant recipients with Roux-en-Y choledochojejunostomy. de Diego Lorenzo A, et al. **Rev Esp Enferm Dig** 1997 Apr; 89(4):289–95 **(Eng, Spa)**

Delayed pneumothorax after CT-guided percutaneous fine needle aspiration lung biopsy. Traill ZC, et al. **Thorax** 1997 Jun;52(6):581–2; discussion 575–6

Transrectal ultrasound-guided biopsy causes hematogenous dissemination of prostate cells as determined by RT-PCR. Moreno JG, et al. **Urology** 1997 Apr;49(4):515–20

[Percutaneous puncture in hepatic echinococcosis] Stoianov G, et al. **Khirurgiia (Sofiia)** 1996;49(5):26–8 (9 ref.) (Eng. Abstr.) **(Bul)**

[Tumor seeding of the abdominal wall after fine needle aspiration of a hepatocellular carcinoma (letter)] Dangou JM, et al. **Ann Pathol** 1996;16(3):227–8 **(Fre)**

[Hydronephrosis as a results of kidney puncture. Experimental studies in the kidneys of healthy rabbits] Ditscherlein G. **Frankf Z Pathol** 1966;75(4):306–16 **(Ger)**

[Role of color Doppler echography (ECD) in the diagnosis and follow-up of post-biopsy arteriovenous fistula in the transplanted kidney] Carrieri G, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):87–9 (Eng. Abstr.) **(Ita)**

[Morbidity of transperineal echo-guided prostatic biopsy, our experience] Zambolin T, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):217–9 (6 ref.) (Eng. Abstr.) **(Ita)**

[Classification problems in iatrogenic hepatic traumas. 10 years of personal experience: 17 cases] Pezzullo LS, et al. **Minerva Chir** 1997 Jun;52(6):743–6 (Eng. Abstr.) **(Ita)**

[Morbidity of and tolerance to ultrasonography-guided transrectal biopsy of the prostate] Herranz Amo F, et al. **Actas Urol Esp** 1996 Nov–Dec;20(10):858–66 (Eng. Abstr.) **(Spa)**

ECONOMICS

Surveillance mammography and stereotactic core breast biopsy for probably benign lesions: a cost comparison analysis. Brenner RJ, et al. **Acad Radiol** 1997 Jun; 4(6):419–25

Cost-effectiveness of stereotaxic breast core needle biopsy. Fajardo LL. **Acad Radiol** 1996 Apr;3 Suppl 1:S21–3

Estimating the cost-effectiveness of stereotaxic biopsy for nonpalpable breast abnormalities: a decision analysis model. Hillner BE, et al. **Acad Radiol** 1996 Apr;3(4):351–60

Cost-effectiveness of image-guided core needle biopsy versus surgery in diagnosing breast cancer. Nields MW. **Acad Radiol** 1996 Apr;3 Suppl 1:S138–40

Cost effectiveness and accuracy of stereotactic breast biopsy [letter; comment] Hurley JE 2nd. **Am J Surg** 1997 May; 173(5):454. Comment on: Am J Surg 1996 May;171(5):471–3. Comment on: Am J Surg 1996 May;171(5):474–6.

Sensitivity and cost-effectiveness of fine-needle aspiration with immunocytochemistry in the evaluation of patients with a pulmonary malignancy and a history of cancer. Raab SS, et al. **Arch Pathol Lab Med** 1997 Jul;121(7):695–700

Comparison of the costs of fine-needle aspiration and open surgical biopsy as methods for obtaining a pathologic diagnosis. Rimm DL, et al. **Cancer** 1997 Feb 25;81(1):51–6

Efficacy and cost-effectiveness of multihole fine-needle aspiration of head and neck masses. Mui S, et al. **Laryngoscope** 1997 Jun;107(6):759–64

Safety and cost effectiveness of pediatric percutaneous renal biopsy. Chesney DS, et al. **Pediatr Nephrol** 1996 Aug; 10(4):493–5

Cost-effectiveness of stereotactic core needle biopsy: analysis by means of mammographic findings. Lee CH, et al. **Radiology** 1997 Mar;202(3):849–54

Ultrasound-guided fine-needle aspiration biopsy. Study of the cost per patient and comparison with computed tomography-guided biopsy. Garre Sánchez MC, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):297–304 **(Eng, Spa)**

A cost minimization approach to the diagnosis of skeletal neoplasms. Ruhs SA, et al. **Skeletal Radiol** 1996 Jul; 25(5):449–54

HISTORY

The introduction of renal biopsy into nephrology from 1901 to 1961: a paradigm of the forming of nephrology by technology. Cameron JS, et al. **Am J Nephrol** 1997; 17(3–4):347–58

Classics in Cytology VII: Kün, Lebert, and early efforts at fine-needle aspiration biopsy. Long SR, et al. **Diagn Cytopathol** 1996 Mar;14(2):182–3

INSTRUMENTATION

Fine needles with echo markers: increasing cell dragging during biopsy [letter] Buscarini E, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1246–9

Excisional biopsy of impalpable soft tissue tumors. US-guided preoperative localization in 12 cases. Rutten MJ, et al. **Acta Orthop Scand** 1997 Aug;68(4):384–6

Sentinel transoral hemorrhage from a pseudoaneurysm of the internal maxillary artery: a complication of CT-guided biopsy of the masticator space. Walker AT, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):377–81

Routine addition of an automated biopsy device to fine-needle aspiration of the lung: a prospective assessment. Boiselle PM, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):661–6

Transjugular needle biopsy of the liver with an automated core biopsy set [letter] Daumas JL, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):280

Use of needle-vibrating device and color Doppler imaging for sonographically guided invasive procedures. Feld R, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):255–6

Stereotactic needle core biopsy [letter; comment] Siegel JP. **Am J Surg** 1997 May;173(5):453–4. Comment on: Am J Surg 1996 May;171(5):471–3. Comment on: Am J Surg 1996 May;171(5):474–6.

A contrast technique to improve sampling in cavitating lung lesions. Black JA, et al. **Australas Radiol** 1996 Feb;40(1):6–9

Ultrasound-guided parathyroid aspiration to diagnose parathyroid adenomas. Campbell J, et al. **Australas Radiol** 1996 Aug;40(3):273–5

Small gauge gelfoam plug liver biopsy in high risk patients: safety and diagnostic value. Fandrich CA, et al. **Australas Radiol** 1996 Aug;40(3):230–4

Transrectal ultrasound-guided biopsy of the prostate: what you see is not what you get. Leibowitz CB, et al. **Australas Radiol** 1996 Aug;40(3):240–3

Aspiration needle biopsy refines preoperative diagnosis of thyroid nodules defined at fine needle aspiration as microfollicular nodule. Carpi A, et al. **Biomed Pharmacother** 1996;50(8):325–8

Transjugular liver biopsy: a review of 77 biopsies using a spring-propelled cutting needle (biopsy gun). Gorriz E, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec; 19(6):442–5 (15 ref.)

A modified outer cannula can help thoracentesis after pleural biopsy [letter] de Menezes Lyra R. **Chest** 1997 Jul; 112(1):296

Endosonography-guided fine-needle biopsy of indurated pancreatic lesions using an automated biopsy device. Binmoeller KF, et al. **Endoscopy** 1997 Jun;29(5):384–8

Experience with a high speed biopsy gun in breast cancer diagnosis. Cerwenka H, et al. **Eur J Surg Oncol** 1997 Jun; 23(3):206–7

Endoscopic ultrasonography-guided fine-needle aspiration biopsy of lymph nodes. Vilmann P. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S24–9

A new biopsy handle instrument for endoscopic ultrasound-guided fine-needle aspiration biopsy. Vilmann P, et al. **Gastrointest Endosc** 1996 Mar;43(3):238–42

Percutaneous renal biopsy using Monopty needle. Jagose JT, et al. **J Assoc Physicians India** 1995 Jan;43(1):19–20

Preliminary evaluation of an automated device for percutaneous liver biopsy. Root S, et al. **J Clin Gastroenterol** 1996 Jun;22(4):325–6

Fine needle aspiration of intra-abdominal masses for cytodiagnosis. Khan AA, et al. **J Indian Med Assoc** 1996 May;94(5):167–8, 194

Stereotactic core needle breast biopsy is an accurate diagnostic technique to assess nonpalpable mammographic abnormalities. Fuhrman G, et al. **J La State Med Soc** 1996 Apr;148(4):167–70

Additional information pertaining to the MR-compatibility of biopsy needles and devices [letter; comment] Shellock FG, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):411 . Comment on: J Magn Reson Imaging 1995 May–Jun;5(3):369–72.

Extrapelvic applications of endocavitary ultrasonographic transducers. Snitzer EL, et al. **J Ultrasound Med** 1996 Mar; 15(3):261–3

Transjugular liver biopsy: a prospective study in 43 patients with the Quick-Core biopsy needle. Little AF, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):127–31

Transvenous renal biopsy in an ex vivo swine kidney model: a comparison of five devices. Marchetto BE, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):831–4

Efficacy and cost-effectiveness of multihole fine-needle aspiration of head and neck masses. Mui S, et al. **Laryngoscope** 1997 Jun;107(6):759–64

Dorsal approach to presacral biopsy: technical case report. Rapport RL 2nd, et al. **Neurosurgery** 1997 May; 40(5):1087–8

Percutaneous biopsy of cavernous sinus tumors through the foramen ovale. Sindou M, et al. **Neurosurgery** 1997 Jan; 40(1):106–10; discussion 110–1

The Leicester Endometrial Needle Sampler: a novel device for endometrial and myometrial junctional zone biopsy. al-Azzawi F, et al. **Obstet Gynecol** 1997 Sep;90(3):470–2

Is a CT guided needle better than a knife? [editorial; comment] [see comments] Flake AW. **Pediatr Pulmonol** 1996 Aug;22(2):83–4. Comment on: Pediatr Pulmonol 1996 Aug;22(2):111–6. Comment in: Pediatr Pulmonol 1997 Feb;23(2):127–8.

A new instrument for suction rectal biopsy in the diagnosis of Hirschsprung's disease. Freeman JK. **Pediatr Surg Int** 1997;12(1):76–7

Evaluation of 14- and 11-gauge directional, vacuum-assisted biopsy probes and 14-gauge biopsy guns in a breast parenchymal model. Berg WA, et al. **Radiology** 1997 Oct; 205(1):203–8

Transjugular liver biopsy with an automated device. Kardache M, et al. **Radiology** 1997 Aug;204(2):369–72

Radiation dosimetry at CT fluoroscopy: physician's hand dose and development of needle holders. Kato R, et al. **Radiology** 1996 Nov;201(2):576–8

Interventional breast MR imaging: clinical use of a stereotactic localization and biopsy device. Kuhl CK, et al. **Radiology** 1997 Sep;204(3):667–75

Stereotactic breast biopsy of clustered microcalcifications with a directional, vacuum-assisted device. Meyer JE, et al. **Radiology** 1997 Aug;204(2):575–6

Liver biopsy: effects of biopsy needle caliber on bleeding and tissue recovery. Plecha DM, et al. **Radiology** 1997 Jul; 204(1):101–4

Thyroid nodules: evaluation with US-guided core biopsy with an automated biopsy gun. Taki S, et al. **Radiology** 1997 Mar;202(3):874–7

Severe bleeding following transrectal Tru-cut prostatic biopsy. Dauleh MI, et al. **Scand J Urol Nephrol** 1996 Apr; 30(2):153–4

Initial experience with breast biopsy utilizing the advanced breast biopsy instrumentation (ABBI). Ferzli GS, et al. **Surg Endosc** 1997 Apr;11(4):393–6

The AD-TECH disposable brain biopsy needle. Dujovny M, et al. **Surg Neurol** 1996 Dec;46(6):597–8

Surface coverage of vascular grafts with cultured human endothelial cells from subcutaneous fat tissue obtained with a biopsy needle. Koyama M, et al. **Thromb Haemost** 1996 Oct;76(4):610–4

Minimally invasive method to measure hepatic protein synthesis rate of the pretransplant graft: a use of 21-G Chiba type II skinny needle. Matsui Y, et al. **Transplant Proc** 1997 Jun;29(4):2294–6

[Interventional techniques in breast diagnosis: ultrasound controlled puncture biopsy] Schulz-Wendtland R, et al. **Aktuelle Radiol** 1997 Jan;7(1):30–4 (Eng. Abstr.) **(Ger)**

[The microtrephine: experimental experiences, initial clinical application] Schrage NF, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep;209(2–3):132–7 (Eng. Abstr.) **(Ger)**

[Fine needle capillary cytology versus fine needle aspiration cytology—a comparison of quality between puncture techniques in the ENT area] Braun H, et al. **Laryngorhinootologie** 1997 Jun;76(6):358–63 (Eng. Abstr.) **(Ger)**

[CT-guided puncture] Nöldge G, et al. **Radiologe** 1996 Sep; 36(9):683–91 (34 ref.) (Eng. Abstr.) **(Ger)**

[Puncture with an open-sided, interventional MRI system. Illustration with a case report] Schoenenberger AW, et al. **Radiologe** 1996 Sep;36(9):705–8 (Eng. Abstr.) **(Ger)**

[Use of a laser-guided device for CT-controlled biopsies and nerve blocks] Zwaan M, et al. **Rontgenpraxis** 1996 Jul; 49(7):176–7 **(Ger)**

[Ultrasound-guided fine-needle aspiration biopsy of focal liver lesions] Járay B, et al. **Orv Hetil** 1997 Jul 6; 138(27):1731–6 (Eng. Abstr.) **(Hun)**

[Biopsy with large diameter needle in breast lesions] Bergami G, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):53–5 (Eng. Abstr.) **(Ita)**

[US-guided core biopsy of the breast with an automated biopsy gun: comparison with an aspiration core needle device] Taki S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan;57(1):1–4 (Eng. Abstr.) **(Jpn)**

[A kit of disposable devices for transcutaneous puncture biopsy] Astrakhantsev FA, et al. **Med Tekh** 1997 Jan–Feb; (1):23–5 (Eng. Abstr.) **(Rus)**

[An aspiration biopsy probe] Kreknin AA, et al. **Med Tekh** 1996 Jul–Aug;(4):45–6 (Eng. Abstr.) **(Rus)**

[Percutaneous liver biopsy: comparative study on the efficacy of and tolerance to the automatic tru-cut technique] García Ordoñez MA, et al. **An Med Interna** 1996 Sep;13(9):419–22 (Eng. Abstr.) **(Spa)**

METHODS

MR intervention in the pelvis: an overview and first experiences in MR-guided biopsy in nodal metastases in urinary bladder cancer. Barentsz JO. **Abdom Imaging** 1997 Sep–Oct;22(5):524–30

A percutaneous biopsy technique for patients with suspected biliary or pancreatic cancer without a radiographic mass [see comments] Pelsang RE, et al. **Abdom Imaging** 1997 May–Jun;22(3):307–10. Comment in: Abdom Imaging 1997 May–Jun;22(3):311–2.

Percutaneous needle biopsy [editorial; comment] Reading CC. **Abdom Imaging** 1997 May–Jun;22(3):311–2. Comment on: Abdom Imaging 1997 May–Jun;22(3):307–10.

Interactive MR-guided, 14-gauge core-needle biopsy of enhancing lesions in a breast phantom mode. Daniel BL, et al. **Acad Radiol** 1997 Jul;4(7):508–12

Patient perceptions of stereotaxic large-core breast biopsy. Handy RB, et al. **Acad Radiol** 1996 Dec;3(12):1007–11

Selective use of image-guided large-core needle biopsy of

the breast: accuracy and cost-effectiveness. Harvey JA. **Acad Radiol** 1996 May;3(5):442-3; discussion 443-4
Evaluation of a turkey-breast phantom for teaching freehand, US-guided core-needle breast biopsy. Harvey JA, et al. **Acad Radiol** 1997 Aug;4(8):565-9
Predictive value of fine needle aspiration cytology of bone lesions. Agarwal PK, et al. **Acta Cytol** 1997 May-Jun; 41(3):659-65
Use of the microwave oven for cell block preparation [letter] Bellotti MS, et al. **Acta Cytol** 1997 Mar-Apr;41(2):610-1
Fine needle aspiration of thyroid nodules. Determinants of insufficiency rate and malignancy yield at thyroidectomy. Burch HB, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1176-83
Fine needle aspiration cytology of orbital masses. Cangiarella JF, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1205-11
Fine needle aspiration biopsy in hepatic Echinococcus multilocularis. Ciftçioğlu MA, et al. **Acta Cytol** 1997 May-Jun;41(3):649-52
Air embolism and fine needle aspiration [letter] Fowler LJ, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1633-4
A method of teaching fine needle aspiration biopsy of the thyroid gland. Jadusingh IH. **Acta Cytol** 1997 Jul-Aug; 41(4):1156-8
Tuberculous orchitis diagnosed by fine needle aspiration cytology. Kumar PV, et al. **Acta Cytol** 1996 Nov-Dec; 40(6):1253-6
Evaluation of the ThinPrep processor for fine needle aspiration specimens. Lee KR, et al. **Acta Cytol** 1996 Sep-Oct;40(5):895-9
Thyroid follicular neoplasms diagnosed by high-resolution ultrasonography with fine needle aspiration cytology. Lin JD, et al. **Acta Cytol** 1997 May-Jun;41(3):687-91
Serial changes in ultrasound-guided fine needle aspiration cytology in subacute thyroiditis. Lu CP, et al. **Acta Cytol** 1997 Mar-Apr;41(2):238-43
Fine needle aspiration cytology of cutaneous meningioma [letter] Mandreker S, et al. **Acta Cytol** 1996 Nov-Dec; 40(6):1325-6
Microfilaria of Wuchereria bancrofti in fine needle aspiration smears [letter] Pinto RW, et al. **Acta Cytol** 1996 Nov-Dec; 40(6):1326-7
Positive economic and diagnostic accuracy impacts of on-site evaluation of fine needle aspiration biopsies by pathologists. Saleh HA, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1227-30
Aspiration of fetal fluids [letter] Singh B, et al. **Acta Cytol** 1997 May-Jun;41(3):947-50
C-erb B2 oncoprotein expression. Correlation with the Ki-67 labeling index and AgNOR counts in breast carcinoma on fine needle aspiration cytology. Sinha SK, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1217-20
Histologic assessment of equivocal cytologic smears. Sumithran E, et al. **Acta Cytol** 1997 May-Jun;41(3):697-700
Breast cancer diagnosis by fine needle aspiration and excisional biopsy. Recurrence and survival. Taxin A, et al. **Acta Cytol** 1997 Mar-Apr;41(2):302-6
Transjugular liver biopsy. An experience based on 500 procedures. Brenard R, et al. **Acta Gastroenterol Belg** 1997 Apr-Jun;60(2):138-41
Excisional biopsy of impalpable soft tissue tumors. US-guided preoperative localization in 12 cases. Rutten MJ, et al. **Acta Orthop Scand** 1997 Aug;68(4):384-6
The cytology of soft tissue tumours. Akerman M. **Acta Orthop Scand Suppl** 1997 Feb;273:54-9
Fine needle aspiration in the diagnosis of bone tumors. Willén H. **Acta Orthop Scand Suppl** 1997 Feb;273:47-53
Ultrasound-guided 1.2-mm cutting-needle biopsies of head and neck tumours. Elvin A, et al. **Acta Radiol** 1997 May; 38(3):376-80
Yield and complications in percutaneous renal biopsy. A comparison between ultrasound-guided gun-biopsy and manual techniques in native and transplant kidneys. Nyman RS, et al. **Acta Radiol** 1997 May;38(3):431-6
Ultrasound-guided fine needle aspiration biopsy in the diagnosis of breast cancer recurrence after mastectomy. Rissanen TJ, et al. **Acta Radiol** 1997 Mar;38(2):232-9
CT-guided transvertebral core biopsy of a retrocrural mass. Aström KG, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):991-3
Use of needle-vibrating device and color Doppler imaging for sonographically guided invasive procedures. Feld R, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):255-6
Gantry angulation in CT-guided biopsy [letter; comment] Hall FM, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):278-9. Comment on: AJR Am J Roentgenol 1996 Mar;166(3):537-9.
Re: Percutaneous transpulmonary CT-guided liver biopsy [letter; comment] Padhani AR, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):313-4. Comment on: AJR Am J Roentgenol 1996 Aug;167(2):482-3.
Active biplanar MR tracking for biopsies in humans. Steiner P, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):735-8
CT-assisted transbronchial needle aspiration: usefulness of CT fluoroscopy. White CS, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):393-4
Transthoracic needle biopsy: is it small versus large or in versus out? [letter; comment] Yankelevitz D, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):1111-2. Comment on: AJR Am J Roentgenol 1996 Jul;167(1):105-9.
Image-guided breast biopsy. Burns RP. **Am J Surg** 1997 Jan; 173(1):9-11; discussion 12-3 (16 ref.)
Open versus stereotactic breast biopsy. Frazee RC, et al. **Am J Surg** 1996 Nov;172(5):491-3; discussion 494-5
Cost effectiveness and accuracy of stereotactic breast biopsy [letter; comment] Hurley JE 2nd. **Am J Surg** 1997 May; 173(5):454. Comment on: Am J Surg 1996 May;171(5):471-3. Comment on: Am J Surg 1996 May;171(5):474-6.
Stereotactic needle core biopsy [letter; comment] Siegel JP. **Am J Surg** 1997 May;173(5):453-4. Comment on: Am J Surg 1996 May;171(5):471-3. Comment on: Am J Surg 1996 May;171(5):474-6.
The impact of image-directed core biopsy on the practice of breast surgery: a new algorithm for a changing technology. Stolier AJ, et al. **Am Surg** 1997 Sep; 63(9):827-30
An interactive decision support system for breast fine needle aspiration cytology. Hamilton PW, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):185-90
Stereotactic needle core biopsy [letter; comment] Siegel JP. **Ann Surg** 1997 Feb;225(2):241-2. Comment on: Ann Surg 1996 Jun;223(6):688-97; discussion 697-700.
Comparison of histologic diagnosis between stereotactic core needle biopsy and open surgical biopsy. Bauer RL, et al. **Ann Surg Oncol** 1997 Jun;4(4):316-20
Appropriate management of atypical ductal hyperplasia diagnosed by stereotactic core needle breast biopsy. Gadzala DE, et al. **Ann Surg Oncol** 1997 Jun;4(4):283-6
Ultrasound-guided biopsy of nonpalpable breast masses by surgeons. Staren ED. **Ann Surg Oncol** 1996 Sep;3(5):476-82
Surgical biopsy findings in patients with atypical hyperplasia diagnosed by stereotaxic core needle biopsy. Tocino I, et al. **Ann Surg Oncol** 1996 Sep;3(5):483-8
Microbiologically verified diagnosis of infectious spondylitis using CT-guided fine needle biopsy. Rieneck K, et al. **APMIS** 1996 Oct;104(10):755-62
Sources of discrepancies in the diagnosis of Hodgkin's disease by fine needle aspiration. Daskalopoulou D, et al. **Arch Anat Cytol Pathol** 1996;44(4):166-73
Langerhans cell histiocytosis diagnosed by fine needle biopsy. Harbour JW, et al. **Arch Ophthalmol** 1997 Sep; 115(9):1212-3
Stereotactic core needle biopsy and the workup of mammographic breast lesions. Devia A, et al. **Arch Surg** 1997 May;132(5):512-5; discussion 515-7
Large-core needle biopsy of nonpalpable breast cancers. The impact on subsequent surgical excisions. Smith DN, et al. **Arch Surg** 1997 Mar;132(3):256-9; discussion 260
Core biopsy for microcalcifications in the breast. Hirst C, et al. **Aust N Z J Surg** 1997 Jun;67(6):320-4
Stereotactic large-gauge core biopsy: its role in the diagnosis of non-palpable mammographic abnormalities presenting to a screening service. Sutton S, et al. **Australas Radiol** 1997 May;41(2):103-8
Laparoscopic liver biopsy to evaluate hepatic dysfunction in patients with hematologic malignancies: a useful tool to effect changes in management. Iqbal M, et al. **Bone Marrow Transplant** 1996 Apr;17(4):655-62
Image-guided core biopsy in patients with breast disease. Chare MJ, et al. **Br J Surg** 1996 Oct;83(10):1415-6
Randomized comparison of sitting and prone positions for stereotactic fine-needle aspiration breast biopsy. Helbich TH, et al. **Br J Surg** 1996 Sep;83(9):1252-5
Assessment of testicular cytology by fine-needle aspiration and the imprint technique: are they reliable diagnostic modalities? Odabas O, et al. **Br J Urol** 1997 Mar;79(3):445-8
Comment on 'when can stereotactic core biopsy replace excisional biopsy'? [letter; comment] Head JF, et al. **Breast Cancer Res Treat** 1996;39(3):349-51. Comment on: Breast Cancer Res Treat 1995;36(1):1-9.
Stereotactic core-needle biopsy of the breast: a report of the Joint Task Force of the American College of Radiology, American College of Surgeons, and College of American Pathologists. Bassett L, et al. **CA Cancer J Clin** 1997 May-Jun;47(3):171-90 (84 ref.)
Core needle biopsy. A useful adjunct to fine-needle aspiration in select patients with palpable breast lesions [see comments] Florentine BD, et al. **Cancer** 1997 Feb 25; 81(1):33-9. Comment in: Cancer 1997 Feb 25;81(1):1-2.
An update on core needle biopsy for radiologically detected breast lesions. Nguyen M, et al. **Cancer** 1996 Dec 1; 78(11):2340-5 (17 ref.)
Transjugular liver biopsy: a review of 77 biopsies using a spring-propelled cutting needle (biopsy gun). Gorriz E, et al. **Cardiovasc Intervent Radiol** 1996 Nov-Dec; 19(6):442-5 (15 ref.)
Capillary versus aspiration biopsy: effect of needle size and length on the cytopathological specimen quality. Hopper KD, et al. **Cardiovasc Intervent Radiol** 1996 Sep-Oct; 19(5):341-4
"Oblique path"--the optimal needle path for computed tomography-guided biopsy of small subpleural lesions. Tanaka J, et al. **Cardiovasc Intervent Radiol** 1996 Sep-Oct; 19(5):332-4
A safe high-yield technique for cutting needle biopsy of the lung in patients with diffuse lung disease. Niden AH, et al. **Chest** 1997 Jun;111(6):1615-21
CT-guided fine-needle aspiration cytology of solitary pulmonary nodules: a prospective, randomized study of immediate cytologic evaluation. Santambrogio L, et al. **Chest** 1997 Aug;112(2):423-5
A one-hand operation gun for transrectal prostate biopsy. Li S, et al. **Chin Med J (Engl)** 1996 Sep;109(9):730-3
No change in complication rate using spring-loaded gun compared to traditional percutaneous renal allograft biopsy techniques. Kovalik EC, et al. **Clin Nephrol** 1996 Jun; 45(6):383-5
Value of ultrasound-guided core-needle biopsy for peripheral intrathoracic and mediastinal lesions. Arakawa A, et al. **Comput Med Imaging Graph** 1997 Jan-Feb; 21(1):23-8
Initial 100 consecutive stereotactic core breast biopsies in a private breast center setting. Witmer DR, et al. **Del Med J** 1997 Jun;69(6):297-301
Cytogenetic studies on fine-needle aspiration samples from osteosarcoma and Ewing's sarcoma. Akerman M, et al. **Diagn Cytopathol** 1996 Jul;15(1):17-22
Fine-needle biopsy technique for diagnosis of inflammatory carcinoma of the breast. Akhtar M. **Diagn Cytopathol** 1996 Jul;15(1):76-7
Sources of diagnostic error in the fine-needle aspiration diagnosis of Warthin's tumor and clues to a correct diagnosis. Ballo MS, et al. **Diagn Cytopathol** 1997 Sep; 17(3):230-4
Salivary gland lesions with a prominent lymphoid component: cytologic findings and differential diagnosis by fine-needle aspiration biopsy. Chai C, et al. **Diagn Cytopathol** 1997 Sep;17(3):183-90
Fine-needle aspiration cytology of sarcoma: retrospective review of diagnostic utility and specificity. Costa MJ, et al. **Diagn Cytopathol** 1996 Jul;15(1):23-32
Fine-needle aspiration of epithelioid malignant peripheral nerve sheath tumor (epithelioid malignant schwannoma). Dodd LG, et al. **Diagn Cytopathol** 1997 Sep;17(3):200-4
Fine-needle aspiration cytodiagnosis of Liesegang rings in women presenting with a mammographic opacity. Gupta RK, et al. **Diagn Cytopathol** 1997 Sep;17(3):213-5
Cytodiagnosis of pure primary squamous-cell carcinoma of the breast by fine-needle aspiration cytology. Gupta RK, et al. **Diagn Cytopathol** 1997 Sep;17(3):197-9
Fine-needle sampling of salivary gland lesions. IV. Review of 50 cases of mucoepidermoid carcinoma with histologic correlation. Klijanienko J, et al. **Diagn Cytopathol** 1997 Aug;17(2):92-8 (41 ref.)
Intramammary lymph nodes: cytologic findings and implications for fine-needle aspiration cytology diagnosis of breast nodules. Layfield LJ, et al. **Diagn Cytopathol** 1997 Sep;17(3):223-9
Olfactory neuroblastoma (esthesioneuroblastoma): appearance on fine-needle aspiration: report of a case. Logrono R, et al. **Diagn Cytopathol** 1997 Sep;17(3):205-8
Needle aspiration cytology of pancreatic cystic lesions. Nguyen GK, et al. **Diagn Cytopathol** 1997 Sep;17(3):177-82
Fine-needle aspiration cytology of metastatic ovarian carcinoma to the breast. Raptis S, et al. **Diagn Cytopathol** 1996 Jul;15(1):1-6 (14 ref.)
Spindle-cell lesions of the mediastinum: diagnosis by fine-needle aspiration biopsy. Slagel DD, et al. **Diagn Cytopathol** 1997 Sep;17(3):167-76
Stereotaxic needle-core biopsy and fine-needle aspiration biopsy in the diagnosis of nonpalpable breast lesions: controversies and future prospects. Lifrange E, et al. **Eur J Radiol** 1997 Jan;24(1):39-47
A comparison of the accuracy of echo features during endoscopic ultrasound (EUS) and EUS-guided fine-needle aspiration for diagnosis of malignant lymph node invasion. Bhutani MS, et al. **Gastrointest Endosc** 1997 Jun;45(6):474-9
Endoscopic ultrasound (EUS) and EUS-guided fine-needle aspiration of the left adrenal gland. Chang KJ, et al. **Gastrointest Endosc** 1996 Nov;44(5):568-72
Endoscopic ultrasound-guided histologic needle biopsy: preliminary results using a newly developed endoscopic ultrasound transducer. Harada N, et al. **Gastrointest Endosc** 1996 Sep;44(3):327-30
Evaluation of digitally guided fine needle aspiration cytology versus fine needle core biopsy for the diagnosis of recurrent rectal cancer. Wiig JN, et al. **Int J Colorectal Dis** 1996; 11(6):272-5
Fine needle aspiration of salivary gland tumors. Shintani S, et al. **Int J Oral Maxillofac Surg** 1997 Aug;26(4):284-6
Percutaneous large core needle biopsy versus surgical biopsy in the diagnosis of breast lesions. Anania G, et al. **Int Surg** 1997 Jan-Mar;82(1):52-5
Stereotactic breast biopsy: a surgical series. Stolier AJ. **J Am Coll Surg** 1997 Sep;185(3):224-8
Analysis of malignancy detected by needle-localized breast biopsy [see comments] Hillhouse RA, et al. **J Am Osteopath Assoc** 1996 Jul;96(7):398-400. Comment in: J Am Osteopath Assoc 1996 Jul;96(7):317.
Increase in percutaneous muscle biopsy yield with a suction-enhancement technique. Hennessey JV, et al. **J Appl Physiol** 1997 Jun;82(6):1739-42
Differential gene expression of steroid 5 alpha-reductase 2 in core needle biopsies from malignant and benign prostatic tissue. Bjelfman C, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2210-4
Endoscopic ultrasound-guided real-time fine-needle aspiration biopsy of the pancreas in cancer patients with pancreatic lesions. Faigel DO, et al. **J Clin Oncol** 1997 Apr;15(4):1439-43
Imaging characteristics of giant myofibroblastoma of the breast diagnosed by ultrasound-guided core biopsy. Miller JA, et al. **J Clin Ultrasound** 1997 Sep;25(7):395-7
Nonpalpable lymph nodes of the neck: assessment with US and US-guided fine-needle aspiration biopsy. Takashima S, et al. **J Clin Ultrasound** 1997 Jul-Aug;25(6):283-92
Ultrasound-guided cutting biopsy for the diagnosis of

hepatocellular carcinoma--a study based on 420 patients [see comments] Huang GT, et al. **J Hepatol** 1996 Sep; 25(3):334–8. Comment in: J Hepatol 1997 May;26(5):1155–6.

Single-stage stereotactic diagnosis and radiosurgery: feasibility and cost implications. Gerszten PC, et al. **J Image Guid Surg** 1995;1(3):141–50

Execution of robot-assisted biopsies within the clinical context. Rovetta A, et al. **J Image Guid Surg** 1995; 1(5):280–7

Efficacy and safety of unguided percutaneous fine needle aspiration cytology in peripheral lung lesions. Kushwaha SK, et al. **J Indian Med Assoc** 1996 Mar;94(3):105–7 (12 ref.)

Application of PCR from the fine needle aspirates for the diagnosis of cervical tuberculous lymphadenitis. Kim SS, et al. **J Korean Med Sci** 1996 Apr;11(2):127–32

A simulation study to assess SVD encoding for interventional MRI: effect of object rotation and needle insertion. Duerk JL, et al. **J Magn Reson Imaging** 1996 Nov–Dec;6(6):957–60

Radionuclide-guided stereotactic prebiopsy localization of nonpalpable breast lesions with normal mammograms. Khalkhali I, et al. **J Nucl Med** 1997 Jul;38(7):1019–22

Ciliated hepatic foregut cyst. Carnicer J, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):191–3

Stereo fluoroscopy-assisted percutaneous needle puncture of the vertebral body. Nakamura K, et al. **J Spinal Disord** 1997 Apr;10(2):102–5

Serial ultrasound-guided percutaneous liver biopsy in a partial hepatectomy porcine model: a new technique in the study of liver regeneration. Chow PK, et al. **J Surg Res** 1997 Jul 1;70(2):134–7

Needle-tip repositioning during computed-tomography-guided transthoracic needle aspiration biopsy of small deep pulmonary lesions: minor adjustments make a big difference. Yankelevitz DF, et al. **J Thorac Imaging** 1996 Fall;11(4):279–82

Color Doppler ultrasonographic detection of a vibrating needle system. Jones CD, et al. **J Ultrasound Med** 1997 Apr;16(4):269–74

Quality improvement guidelines for image-guided percutaneous biopsy in adults: Society of Cardiovascular & Interventional Radiology Standards of Practice Committee. Cardella JF, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):943–6

Biopsy with use of mediastinal shift [letter] Chen HH. **J Vasc Interv Radiol** 1997 Mar–Apr;8(2):301–2

Interventional MR imaging. Hagspiel KD, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):745–58 (107 ref.)

The role of percutaneous needle biopsies in the original diagnosis of lymphoma: a prospective evaluation. Quinn SF, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):947–52

Identifying and targeting breast lesions with US. Shortsleeve MJ, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):125–6

Single plane fluoroscopic guided biopsy of thoracic lesions. Hussain S. **JPMA J Pak Med Assoc** 1996 Apr;46(4):73–7

Percutaneous needle autopsy sampling [see comments] Huston BM, et al. **Mod Pathol** 1996 Dec;9(12):1101–7. Comment in: Mod Pathol 1997 Apr;10(4):394.

The thyroid. Fine-needle biopsy and cytological diagnosis of thyroid lesions. Orell SR, et al. **Monogr Clin Cytol** 1997; 14:I–IX, 1–205 (246 ref.)

Interval to cancer diagnosis following "negative" transthoracic fine needle aspiration biopsy. Woodard WL 3rd, et al. **N C Med J** 1997 Jan–Feb;58(1):56–9 (20 ref.)

CT-guided biopsy of lung lesions. Belfiore G, et al. **Nucl Med Biol** 1994 Jul;21(5):713–9

Fine-needle aspiration: clinical pearls. Cannon CR. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):120–1

Percutaneous biopsy. Cronan JJ. **Radiol Clin North Am** 1996 Nov;34(6):1207–23 (43 ref.)

CT-guided percutaneous biopsy of pancreas transplants. Aideyan OA, et al. **Radiology** 1996 Dec;201(3):825–8

Middle mediastinum lesions: preliminary experience with CT-guided fine-needle aspiration biopsy with a suprasternal approach. Belfiore G, et al. **Radiology** 1997 Mar;202(3):870–3

Modified technique for fluid aspiration from the hip in patients with prosthetic hips. Brandser EA, et al. **Radiology** 1997 Aug;204(2):580–2

Stereotactic breast biopsy of atypical ductal hyperplasia and ductal carcinoma in situ lesions: improved accuracy with directional, vacuum-assisted biopsy. Burbank F. **Radiology** 1997 Mar;202(3):843–7

Mammographic findings after 14-gauge automated needle and 14-gauge directional, vacuum-assisted stereotactic breast biopsies. Burbank F. **Radiology** 1997 Jul;204(1):153–6

Coaxial technique: approach to breast core biopsies. Helbich TH, et al. **Radiology** 1997 Jun;203(3):684–90

Atypical ductal hyperplasia diagnosed at stereotactic breast biopsy: improved reliability with 14-gauge, directional, vacuum-assisted biopsy. Jackman RJ, et al. **Radiology** 1997 Aug;204(2):485–8

Stereotactic core needle biopsy of multiple sites in the breast: efficacy and effect on patient care. Rosenblatt R, et al. **Radiology** 1996 Oct;201(1):67–70

Breast intraductal masses: US-guided fine-needle aspiration after galactography. Sardanelli F, et al. **Radiology** 1997 Jul; 204(1):143–8

Impalpable breast cysts: utility of cytologic examination of fluid obtained with radiologically guided aspiration. Smith DN, et al. **Radiology** 1997 Jul;204(1):149–51

Ultrasound-guided fine-needle aspiration biopsy. Study of the cost per patient and comparison with computed tomography-guided biopsy. Garre Sánchez MC, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):297–304 **(Eng, Spa)**

CT-guided needle biopsy (CT. NB) for intrathoracic lesions. Yang XF. **Rinsho Kyobu Geka** 1989 Jun;9(3):280–2

Fine-needle aspiration of lymph nodes [letter; comment] Parrish AG. **S Afr Med J** 1997 Mar;87(3):342, 344. Comment on: S Afr Med J 1996 Oct;86(10):1300.

Ultrasound guided synovial biopsy of the wrist. van Vugt RM, et al. **Scand J Rheumatol** 1997;26(3):212–4

Role of stereotactic breast biopsy. Bernstein JR. **Semin Surg Oncol** 1996 Sep–Oct;12(5):290–9 (39 ref.)

Stereotaxic breast biopsy. Dershaw DD. **Semin Ultrasound CT MR** 1996 Oct;17(5):444–59 (25 ref.)

Percutaneous transpedicular biopsy of vertebral body lesions. Jelinek JS, et al. **Spine** 1996 Sep 1;21(17):2035–40

The value of percutaneous transpedicular vertebral bone biopsies for histologic examination. Results of an experimental histopathologic study comparing two biopsy needles. Ward JC, et al. **Spine** 1996 Nov 1;21(21):2484–90

Use of ultrasound-guided percutaneous needle biopsy in the diagnosis of mediastinal tumors. Otani Y, et al. **Surg Today** 1996;26(12):990–2

Analysis of fine-needle aspiration biopsies by flow cytometry in kidney transplant patients. Oliveira JG, et al. **Transplantation** 1997 Jul 15;64(1):97–102

A 3 year audit of fine needle aspirates from a symptomatic breast clinic. Lioe TF, et al. **Ulster Med J** 1997 May; 66(1):24–7

Biopsy of nonpalpable cervical lymph nodes: selection criteria for ultrasound-guided biopsy in patients with head and neck squamous cell carcinoma. Kruyt RH, et al. **Ultrasound Med Biol** 1996;22(4):413–9

Transperineal prostate needle biopsy guided by transurethral ultrasound in patients without a rectum [letter; comment] Kirby KA. **Urology** 1997 Feb;49(2):306. Comment on: Urology 1996 Mar;47(3):353–5.

Limitations of transition zone needle biopsy findings in the prediction of transition zone cancer and tissue composition of benign nodular hyperplasia. McNeal J, et al. **Urology** 1996 Nov;48(5):751–6

Ureteroscopic biopsy: technique and specimen preparation. Tawfiek E, et al. **Urology** 1997 Jul;50(1):117–9

Incidence of high-grade prostatic intraepithelial neoplasia in sextant needle biopsy specimens. Wills ML, et al. **Urology** 1997 Mar;49(3):367–73

Percutaneous core biopsy of the breast. Brant W. **West J Med** 1996 Jul–Aug;165(1–2):52–3

Ultrasound-guided aspiration biopsy for detection of nonpalpable axillary node metastases in breast cancer patients: new diagnostic method. Bonnema J, et al. **World J Surg** 1997 Mar–Apr;21(3):270–4

[Fine needle puncture--method of treatment in nodular pathology of the thyroid] Zbranca E, et al. **Ann Endocrinol (Paris)** 1996;57(5):433–7 (Eng. Abstr.) **(Fre)**

[Nephrogenic nephroma. Apropos of a case diagnosed by needle biopsy] Boccon-Gibod L, et al. **Arch Anat Cytol Pathol** 1996;44(1):42–5 (Eng. Abstr.) **(Fre)**

[Biopsy of the seminal vesicles in the staging of localized cancer of the prostate: technic and results] Vallancien G, et al. **Prog Urol** 1997 Feb;7(1):42–7 (Eng. Abstr.) **(Fre)**

[Ultrasonography-guided percutaneous needle biopsy with large needle versus surgical biopsy in the diagnosis of breast lesions] Anania G, et al. **Ann Ital Chir** 1995 Sep–Oct; 66(5):645–50 (Eng. Abstr.) **(Ita)**

[Role of expectant therapy in prostatic carcinoma of low grade and staging] Lorusso A, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):155–7 (Eng. Abstr.) **(Ita)**

[Proposal of a new transurethral method for repeated prostatic biopsy] Marzano D, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:87–91 (16 ref.) (Eng. Abstr.) **(Ita)**

[Echo-guided biopsy of the transitional zone in the diagnosis of prostatic carcinoma] Pagliarulo A, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):221–4 (Eng. Abstr.) **(Ita)**

[Usefulness of ultrasound-guided prostate biopsy in the diagnosis and treatment of localized prostate cancer] Ogawa O, et al. **Hinyokika Kiyo** 1996 Oct;42(10):805–10 (Eng. Abstr.) **(Jpn)**

[Detection of lesions in bone marrow for the diagnosis of miliary tuberculosis: reliability of bone marrow aspiration and biopsy in view of distribution pattern of lesions in autopsy cases] Nakajima M, et al. **Kansenshogaku Zasshi** 1996 Sep;70(9):963–9 (Eng. Abstr.) **(Jpn)**

[A child of malignant lymphoma diagnosed by transbronchial aspiration cytology under general anesthesia with a laryngeal mask] Sakurada A, et al. **Kyobu Geka** 1997 Jul; 50(7):585–8 (Eng. Abstr.) **(Jpn)**

[Thoracoscopic cutting needle biopsy] Sugiyama S, et al. **Kyobu Geka** 1997 Jul;50(7):554–6 (Eng. Abstr.) **(Jpn)**

[CT-guided biopsy of small lung nodules: usefulness of frozen-section pathologic diagnosis] Kitagawa M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jun; 57(7):407–11 (Eng. Abstr.) **(Jpn)**

[Percutaneous CT guided bone biopsy in patients with suspected bone neoplasm] Yasui K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Mar; 56(4):178–82 (Eng. Abstr.) **(Jpn)**

[Fine needle aspiration cytology under ultrasonographic imaging for diagnosis of thyroid tumor] Kato A, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jan;100(1):45–50 (Eng. Abstr.) **(Jpn)**

[Peripheral carcinoid tumor of the lung presenting as a solitary mass shadow on a chest roentgenogram and diagnosed by CT-guided percutaneous needle biopsy] Kakemizu N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr;35(4):432–6 (Eng. Abstr.) **(Jpn)**

[Pulmonary actinomycosis diagnosed with transthoracic thin needle biopsy] Janiszewska-Drobińska B, et al. **Pneumonol Alergol Pol** 1996;64(5–6):323–6 (Eng. Abstr.) **(Pol)**

[Aspiration cytology of the thyroid using a fine needle. Technical aspects] Mestre L, et al. **Acta Med Port** 1996 Jul–Sep;9(7–9):267–9 (Eng. Abstr.) **(Por)**

[Ultrasonically guided needle biopsy in malignant focal solid nodules of the liver] de Oliveira e Silva A, et al. **Arq Gastroenterol** 1996 Jul–Sep;33(3):151–7 (Eng. Abstr.) **(Por)**

[Guided transcutaneous puncture biopsy of the kidneys under ultrasound control in children with nephrourological diseases] Gel'dt VG, et al. **Urol Nefrol (Mosk)** 1997 Jan–Feb;(1):14–6 (Eng. Abstr.) **(Rus)**

[The stereotaxic biopsy of tumors in the pineal area] Melikian AG, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Jan–Mar;(1):19–22 (Eng. Abstr.) **(Rus)**

[Percutaneous biopsy of the kidney in children (technical aspects)] Smoljanić Z, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:220–1 (Eng. Abstr.) **(Scc)**

[Percutaneous needle biopsy of the distal part of the choledochal duct] Pešić V, et al. **Vojnosanit Pregl** 1996 Nov–Dec;53(6):493–6 (Eng. Abstr.) **(Scr)**

PSYCHOLOGY

Patient tolerance of transrectal ultrasound-guided biopsy of the prostate. Irani J, et al. **Br J Urol** 1997 Apr;79(4):608–10

A randomized controlled prospective outcome study of a psychological and pharmacological intervention protocol for procedural distress in pediatric leukemia. Kazak AE, et al. **J Pediatr Psychol** 1996 Oct;21(5):615–31

STANDARDS

The uniform approach to breast fine needle aspiration biopsy. A synopsis. **Acta Cytol** 1996 Nov–Dec;40(6):1120–6; discussion 1119

Cytologic grading of fine needle aspirates of breast carcinoma by private practice pathologists. Cajulis RS, et al. **Acta Cytol** 1997 Mar–Apr;41(2):313–20

Criteria for reporting fine needle aspiration on palpable and nonpalpable masses of the breast [editorial] Logrono R, et al. **Acta Cytol** 1997 May–Jun;41(3):623–7

Adequate tissue sampling of prostate core needle biopsies [letter]] Shaw EB, et al. **Am J Clin Pathol** 1997 Sep; 108(3):359–60

Accuracy in mammographically directed breast biopsies: communication is key [editorial] Bleiweiss IJ, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):357–8

Stereotactic brain biopsies: specimen preparation and evaluation. Burger PC, et al. **Arch Pathol Lab Med** 1997 May;121(5):477–80

Sensitivity and cost-effectiveness of fine-needle aspiration with immunocytochemistry in the evaluation of patients with a pulmonary malignancy and a history of cancer. Raab SS, et al. **Arch Pathol Lab Med** 1997 Jul;121(7):695–700

Core biopsy for microcalcifications in the breast. Hirst C, et al. **Aust N Z J Surg** 1997 Jun;67(6):320–4

Fine-needle aspiration biopsy of parotid lesions: comparison with frozen section. Tew S, et al. **Aust N Z J Surg** 1997 Jul;67(7):438–41

Fine-needle aspiration cytology in tumors and tumor-like conditions of the oral and maxillofacial region: diagnostic reliability and limitations. Daskalopoulou D, et al. **Cancer** 1997 Aug 25;81(4):238–52

Fine-needle aspiration of thyroid nodules: correlation between cytology and histology and evaluation of discrepant cases. Sidawy MK, et al. **Cancer** 1997 Aug 25; 81(4):253–9

Should specimen adequacy be determined by the opinion of the aspirator or by the cells on the slides? [editorial; comment] Sneige N. **Cancer** 1997 Feb 25;81(1):3–5. Comment on: Cancer 1997 Feb 25;81(1):16–21.

UK national audit of breast fine needle aspiration cytology in 1990–91: diagnostic criteria. Hunt CM, et al. **Cytopathology** 1996 Oct;7(5):326–32

Who should perform fine-needle aspirations? [letter; comment] Oertel YC. **Cytopathology** 1997 Apr;8(2):134–8 . Comment on: Cytopathology 1995 Feb;6(1):1–4.

Guidelines of the Papanicolaou Society of Cytopathology for the examination of fine-needle aspiration specimens from thyroid nodules. The Papanicolaou Society of Cytopathology Task Force on Standards of Practice. **Diagn Cytopathol** 1996 Jul;15(1):84–9

Uniform approach to breast aspirates: the quest becomes reality [editorial] Abati A. **Diagn Cytopathol** 1996 Jul; 15(1):vii–viii

Follicular variant of papillary carcinoma of the thyroid: to what extent is fine-needle aspiration reliable? Martínez-Parra D, et al. **Diagn Cytopathol** 1996 Jul;

15(1):12–6
Malpractice protection: communication of diagnostic uncertainty. Skoumal SM, et al. **Diagn Cytopathol** 1996 Jun; 14(4):385–9 (51 ref.)
Solitary thyroid nodule in Khartoum. Bashier AH, et al. **East Afr Med J** 1996 Oct;73(10):694–6
Experience with closed needle biopsy and pleural fluid cytology in the diagnosis of malignant pleural effusions in Yaounde, Cameroon. Kuaban C, et al. **East Afr Med J** 1995 Oct;72(10):672–4
Fine-needle aspiration cytology versus core biopsies in the evaluation of recurrent gynecologic malignancies. Malmström H. **Gynecol Oncol** 1997 Apr;65(1):69–73
Fine-needle aspiration cytology of lymphoid lesions of the salivary gland: a review of 35 cases. MacCallum PL, et al. **J Otolaryngol** 1996 Oct;25(5):300–4
Guidelines of the Papanicolaou Society of Cytopathology for fine-needle aspiration procedure and reporting. The Papanicolaou Society of Cytopathology Task Force on Standards of Practice. **Mod Pathol** 1997 Jul;10(7):739–47
Guidelines of the Papanicolaou Society of Cytopathology for the Examination of Fine-Needle Aspiration Specimens from Thyroid Nodules. The Papanicolaou Society of Cytopathology Task Force on Standards of Practice. **Mod Pathol** 1996 Jun;9(6):710–5
Evaluation of pancreas transplant needle biopsy: reproducibility and revision of histologic grading system. Drachenberg CB, et al. **Transplantation** 1997 Jun 15; 63(11):1579–86

STATISTICS & NUMERICAL DATA

Fine needle aspiration of breast masses. An analysis of 1,398 patients in a community hospital. Domínguez F, et al. **Acta Cytol** 1997 Mar–Apr;41(2):341–7
Breast cytology. Statistical analysis and cytohistologic correlations. Feichter GE, et al. **Acta Cytol** 1997 Mar–Apr; 41(2):327–32
The optimal number of pleural biopsy specimens for a diagnosis of tuberculous pleurisy. Kirsch CM, et al. **Chest** 1997 Sep;112(3):702–6
Transthoracic fine needle aspiration cytology of lung for suspected malignancy: an audit of cytological findings with histopathological correlation. Denley H, et al. **Cytopathology** 1997 Aug;8(4):223–9
Audit of 6 years' experience of breast fine needle aspiration (FNA) cytology using the cytospin method; improvement through multidisciplinary clinical audit. Dundas SA, et al. **Cytopathology** 1997 Aug;8(4):230–5
Routine audit of breast fine needle aspiration (FNA) cytology specimens and aspirator inadequate rates. Snead DR, et al. **Cytopathology** 1997 Aug;8(4):236–47
Prevalence and predictors of a positive repeat transrectal ultrasound guided needle biopsy of the prostate. Fleshner NE, et al. **J Urol** 1997 Aug;158(2):505–8; discussion 508–9
The impact of systematic prostate biopsy on prostate cancer incidence in men with symptomatic benign prostatic hyperplasia undergoing transurethral resection of the prostate. Ornstein DK, et al. **J Urol** 1997 Mar;157(3):880–3; discussion 883–4
Clinical significance of repeat sextant biopsies in prostate cancer patients. Stroumbakis N, et al. **Urology** 1997 Mar; 49(3A Suppl):113–8

UTILIZATION

Use of breast core biopsy in the United States: results of a national survey. March DE, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):697–701
Fine-needle aspiration cytology and thyroid surgery in the community hospital. Maxwell JG, et al. **Am J Surg** 1996 Nov;172(5):529–34; discussion 534–5
Underutilization of transbronchial needle aspiration: experiences of current pulmonary fellows. Haponik EF, et al. **Chest** 1997 Jul;112(1):251–3
United Kingdom national audit of breast fine needle aspiration cytology in 1990–91—organization and level of activity. Hunt CM, et al. **Cytopathology** 1996 Oct; 7(5):316–25

VETERINARY

Ultrasound guided spleen biopsy in chimpanzees (pan troglodytes). Eder G, et al. **Ultrasound Med Biol** 1996; 22(1):19–24
Percutaneous needle biopsy of the kidney. Indications, applications, technique, and complications. Osborne CA, et al. **Vet Clin North Am Small Anim Pract** 1996 Nov; 26(6):1461–504 (23 ref.)
Diagnostic value and reproducibility of fine-needle aspiration cytology in canine malignant lymphoma. Teske E, et al. **Vet Q** 1996 Sep;18(3):112–5

BIOPTERIN

ANALOGS & DERIVATIVES

Cancer cachexia and depressive states: a neuro-endocrine-immunological disease? Iwagaki H, et al. **Acta Med Okayama** 1997 Aug;51(4):233–6
Diagnosis of female genital schistosomiasis by indirect disease markers: determination of eosinophil cationic protein, neopterin and IgA in vaginal fluid and swab eluates. Poggensee G, et al. **Acta Trop** 1996 Dec 30;62(4):269–80
Serum tryptophan, kynurenine, and neopterin in patients with Guillain-Barre-syndrome (GBS) and multiple sclerosis (MS). Rudzite V, et al. **Adv Exp Med Biol** 1996;398:183–7
Dependence of the hazard of AIDS on markers. Yong FH, et al. **AIDS** 1997 Feb;11(2):217–28
Serum neopterin in chronic beryllium disease. Harris J, et al. **Am J Ind Med** 1997 Jul;32(1):21–6
Induction of tetrahydrobiopterin synthesis in rat cardiac myocytes: impact on cytokine-induced NO generation. Kasai K, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H665–72
Inhibition of tetrahydrobiopterin biosynthesis impairs endothelium-dependent relaxations in canine basilar artery. Kinoshita H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H718–24
Exogenous tetrahydrobiopterin causes endothelium-dependent contractions in isolated canine basilar artery. Kinoshita H, et al. **Am J Physiol** 1996 Aug; 271(2 Pt 2):H738–43
Neopterin levels in alcohol-dependent patients. O'Hanlon M, et al. **Ann Clin Biochem** 1996 Nov;33 (Pt 6):536–9
Modulation of S-nitroso-N-acetyl-D,L-penicillamine (SNAP) induced HL-60 cell death by tetrahydrobiopterin. Kojima S, et al. **Anticancer Res** 1997 Mar–Apr; 17(2A):929–37
Tetrahydrobiopterin synthesis precedes nitric oxide-dependent inhibition of insulin secretion in INS-1 rat pancreatic beta-cells. Laffranchi R, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):66–70
Repeated peripheral administration of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin alters the binding activities of 5-HT1A and 5-HT2 receptors in rat brain. Muguruma K, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):794–9
Spin trapping study of antioxidant properties of neopterin and 7,8-dihydroneopterin. Oettl K, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):774–8
Tetrahydrobiopterin regulates superoxide and nitric oxide generation by recombinant endothelial nitric oxide synthase. Wever RMF, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):340–4
Delineation of the arginine- and tetrahydrobiopterin-binding sites of neuronal nitric oxide synthase. Boyhan A, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):131–9
Cysteine-200 of human inducible nitric oxide synthase is essential for dimerization of haem domains and for binding of haem, nitroarginine and tetrahydrobiopterin. Cubberley RR, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):141–6
Characterization of bovine endothelial nitric oxide synthase as a homodimer with down-regulated uncoupled NADPH oxidase activity: tetrahydrobiopterin binding kinetics and role of haem in dimerization. List BM, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):159–65
Identification of the 4-amino analogue of tetrahydrobiopterin as a dihydropteridine reductase inhibitor and a potent pteridine antagonist of rat neuronal nitric oxide synthase. Werner ER, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):193–6
Does the reduced form of neopterin serve as an antioxidant? Mori H, et al. **Biochem Mol Biol Int** 1996 Nov; 40(4):799–806
Tetrahydrobiopterin loading test in xanthine dehydrogenase and molybdenum cofactor deficiencies. Blau N, et al. **Biochem Mol Med** 1996 Aug;58(2):199–203
Characterization of the inducible nitric oxide synthase oxygenase domain identifies a 49 amino acid segment required for subunit dimerization and tetrahydrobiopterin interaction. Ghosh DK, et al. **Biochemistry** 1997 Sep 2; 36(35):10609–19
The comparative interaction of quinonoid (6R)-dihydrobiopterin and an alternative dihydropterin substrate with wild-type and mutant rat dihydropteridine reductases. Kiefer PM, et al. **Biochemistry** 1997 Aug 5; 36(31):9438–45
Tetrahydrobiopterin binding to macrophage inducible nitric oxide synthase: heme spin shift and dimer stabilization by the potent pterin antagonist 4-amino-tetrahydrobiopterin. Mayer B, et al. **Biochemistry** 1997 Jul 8;36(27):8422–7
GTP cyclohydrolase I mRNA induction and tetrahydrobiopterin synthesis in human endothelial cells. Hattori Y, et al. **Biochim Biophys Acta** 1997 Aug 21; 1358(1):61–6
Discovery of a new tetrahydrobiopterin-synthesizing enzyme in the lemon mutant of the silkworm Bombyx mori. Iino T, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):191–9
NADH stimulates endogenous dopamine biosynthesis by enhancing the recycling of tetrahydrobiopterin in rat phaeochromocytoma cells. Vrecko K, et al. **Biochim Biophys Acta** 1997 Jul 10;1361(1):59–65
The pathway from GTP to tetrahydrobiopterin: three-dimensional structures of GTP cyclohydrolase I and 6-pyruvoyl tetrahydropterin synthase. Auerbach G, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):185–92 (39 ref.)
Elevated serum levels of neopterin in adult patients with polymyositis/dermatomyositis. Samsonov MY, et al. **Br J Rheumatol** 1997 Jun;36(6):656–60
Daily urinary neopterin excretion as an immunological marker of disease activity in multiple sclerosis. Giovannoni G, et al. **Brain** 1997 Jan;120 (Pt 1):1–13
Regulation of tyrosine hydroxylase and tetrahydrobiopterin biosynthetic enzymes in PC12 cells by NGF, EGF and IFN-gamma. Anastasiadis PZ, et al. **Brain Res** 1996 Mar 25;713(1–2):125–33
Effect of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin and infusion of L-tyrosine on the in vivo L-[beta-11C] DOPA disposition in the monkey brain. Tsukada H, et al. **Brain Res** 1996 Mar 25;713(1–2):92–8
Tetrahydrobiopterin biosynthesis in C6 glioma cells: induction of GTP cyclohydrolase I gene expression by lipopolysaccharide and cytokine treatment. D'Sa C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):105–10
Tumor-associated antigen 90K activates myelomonocytic cell line THP-1. Altindag ZZ, et al. **Cancer Lett** 1996 Oct 1;107(1):143–8
Effect of tetrahydrobiopterin on endothelial function in canine middle cerebral arteries. Tsutsui M, et al. **Circ Res** 1996 Aug;79(2):336–42
Restoration of endothelium-dependent vasodilation after reperfusion injury by tetrahydrobiopterin. Tiefenbacher CP, et al. **Circulation** 1996 Sep 15;94(6):1423–9
Colchicine derivatives inhibit neopterin production in human peripheral blood mononuclear cells (PBMC). Altindag ZZ, et al. **Clin Exp Immunol** 1997 Mar;107(3):574–7
High urinary neopterin levels in Familial Mediterranean Fever [letter] Simsek H, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):224–5
The advanced glycation endproduct pentosidine and monocyte activation in uremia. Friedlander MA, et al. **Clin Nephrol** 1996 Jun;45(6):379–82
Coordinate induction of tetrahydrobiopterin synthesis and nitric oxide synthase activity in chicken macrophages: upregulation of GTP-cyclohydrolase I activity. Kaspers B, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun;117(2):209–15
Possible effects of tetrahydrobiopterin treatment in six children with autism--clinical and positron emission tomography data: a pilot study. Fernell E, et al. **Dev Med Child Neurol** 1997 May;39(5):313–8
Elevated serum neopterin level: its relation to endotoxaemia and sepsis in patients with major burns. Yao YM, et al. **Eur J Clin Invest** 1996 Mar;26(3):224–30
Interleukin-6 and neopterin levels in serum of patients with preterm labour with and without infection. Oleszczuk J, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jul; 74(1):27–30
Tetrahydrobiopterin induced neonatal tyrosinaemia [letter] Blau N, et al. **Eur J Pediatr** 1996 Sep;155(9):832
Pyrrolidine dithiocarbamate inhibits immunostimulant-induced tetrahydrobiopterin synthesis in rat vascular smooth muscle. Hattori Y, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):107–12
Tetrahydrobiopterin and GTP cyclohydrolase I in a rat model of endotoxic shock: relation to nitric oxide synthesis. Hattori Y, et al. **Exp Physiol** 1996 Jul;81(4):665–71
Neopterin and 7,8-dihydroneopterin induce apoptosis in the rat alveolar epithelial cell line L2. Schobersberger W, et al. **FEBS Lett** 1996 Nov 18;397(2–3):263–8
Effects of neopterin-derivatives on H2O2-induced luminol chemiluminescence: mechanistic aspects. Murr C, et al. **Free Radic Biol Med** 1996;21(4):449–56
Neopterin derivatives to activate NF-kappa B [letter; comment] Wirleitner B, et al. **Free Radic Biol Med** 1997; 23(1):177–9. Comment on: Free Radic Biol Med 1996;21(3):401–5.
Elevated local production of neopterin from alveolar macrophages in patients with internal lung diseases. Saito M, et al. **Gen Pharmacol** 1996 Apr;27(3):483–6
Retrovirus-mediated gene transfer of 6-pyruvoyl-tetrahydropterin synthase corrects tetrahydrobiopterin deficiency in fibroblasts from hyperphenylalaninemic patients. Thöny B, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1587–93
Mutations in the GTP cyclohydrolase I and 6-pyruvoyl-tetrahydropterin synthase genes. Thöny B, et al. **Hum Mutat** 1997;10(1):11–20 (54 ref.)
Streptococcal erythrogenic toxins induce neopterin formation in human peripheral blood mononuclear cells but not in the human myelomonocytoma cell line THP-1. Murr C, et al. **Immunobiology** 1996 Aug;195(3):314–22
Effects of activating and deactivating cytokines on the functionally linked tetrahydrobiopterin. No pathways in vascular smooth muscle cells. Walter R, et al. **Immunol Lett** 1996 Dec 1;54(1):25–9
Role of neopterin and 7,8-dihydroneopterin in human immunodeficiency virus infection: marker for disease progression and pathogenic link. Baier-Bitterlich G, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Oct 1;13(2):184–93 (97 ref.)
Increased neopterin in patients with chronic and acute coronary syndromes. Schumacher M, et al. **J Am Coll Cardiol** 1997 Sep;30(3):703–7
D-erythro-neopterin biosynthesis in the methanogenic archaea Methanococcus thermophila and Methanobacterium thermoautotrophicum deltaH. Howell DM, et al. **J Bacteriol** 1997 Aug;179(16):5165–70
The ferrous-dioxy complex of neuronal nitric oxide synthase. Divergent effects of L-arginine and tetrahydrobiopterin on its stability. Abu-Soud HM, et al. **J Biol Chem** 1997 Jul 11;272(28):17349–53
Competition for tetrahydrobiopterin between phenylalanine hydroxylase and nitric oxide synthase in rat liver. Pastor CM, et al. **J Biol Chem** 1996 Oct 4;271(40):24534–8
Glucocorticoids regulate inducible nitric oxide synthase by inhibiting tetrahydrobiopterin synthesis and L-arginine transport. Simmons WW, et al. **J Biol Chem** 1996 Sep 27; 271(39):23928–37

BIOPTERIN

Relation between macrophage and T helper-2 lymphocyte functions in human neoplasms: neopterin, interleukin-10 and interleukin-6 blood levels in early or advanced solid tumors. Lissoni P, et al. **J Biol Regul Homeost Agents** 1995 Oct-Dec;9(4):146-9

Interference of a methotrexate derivative with urinary oncopterin [N2-(3-aminopropyl)biopterin] measurement by high-performance liquid chromatography with fluorimetric detection. Hibiya M, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):223-7

High-performance liquid chromatographic methods for the quantification of tetrahydrobiopterin biosynthetic enzymes. Werner ER, et al. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1-2):51-8 (65 ref.)

Early levels of CD4, neopterin, and beta 2-microglobulin indicate future disease progression. Shi M, et al. **J Clin Immunol** 1997 Jan;17(1):43-52

Tetrahydrobiopterin restores endothelial function in hypercholesterolemia. Stroes E, et al. **J Clin Invest** 1997 Jan 1;99(1):41-6

Pharmacodynamics of recombinant IFN-beta during long-term treatment of malignant melanoma. Fierlbeck G, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):777-81

Role of nuclear factor kappa B in cytokine-induced nitric oxide and tetrahydrobiopterin synthesis in rat neonatal cardiac myocytes. Hattori Y, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1585-92

Neural networks as a tool for compact representation of ab initio molecular potential energy surfaces. Tafeit E, et al. **J Mol Graph** 1996 Feb;14(1):12-8

Effects of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin on the dopaminergic and cholinergic receptors as evaluated by positron emission tomography in the Rhesus monkey. Tani Y, et al. **J Neural Transm Gen Sect** 1995;102(3):189-208

Inactivation of tryptophan hydroxylase by nitric oxide: enhancement by tetrahydrobiopterin. Kuhn DM, et al. **J Neurochem** 1997 Apr;68(4):1495-502

Tetrahydrobiopterin biosynthesis enhanced by lipopolysaccharide stimulation in murine neuroblastoma cell line N1E-115. Ota A, et al. **J Neurochem** 1996 Dec; 67(6):2540-8

Developmental changes of tetrahydrobiopterin in rat and human erythrocytes. Azumagawa K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):607-17

Increased urinary NO3(-) + NO2- and neopterin excretion in children breast fed by mothers with silicone breast implants: evidence for macrophage activation [see comments] Levine JJ, et al. **J Rheumatol** 1996 Jun; 23(6):1083-7. Comment in: J Rheumatol 1997 May;24(5):1013-4; discussion 1014-5. Comment in: J Rheumatol 1997 May;24(5):1014; discussion 1014-5.

Serum concentrations of neopterin, soluble interleukin 2 receptor, and soluble tumor necrosis factor receptor in Wegener's granulomatosis. Nassonov EL, et al. **J Rheumatol** 1997 Apr;24(4):666-70

Effect of 5,6,7,8-tetrahydroneopterin on oxidative modification of low-density lipoprotein, and its uptake in the macrophage-like cell line J774. Iizuka H, et al. **Jpn J Pharmacol** 1996 Dec;72(4):375-9

Serum neopterin in acute coronary syndromes [letter; comment] Gupta S, et al. **Lancet** 1997 Apr 26; 349(9060):1252-3. Comment on: Lancet 1997 Feb 15;349(9050):462-6.

Serum neopterin in acute coronary syndromes [letter; comment] Kluft C, et al. **Lancet** 1997 Apr 26; 349(9060):1253. Comment on: Lancet 1997 Feb 15;349(9050):462-6.

Blood donations and viruses [letter; comment] Schennach H, et al. **Lancet** 1997 May 3;349(9061):1327-8. Comment on: Lancet 1997 Mar 1;349(9052):609-11.

Acceleration of oxidative stress-induced endothelial cell death by nitric oxide synthase dysfunction accompanied with decrease in tetrahydrobiopterin content. Ishii M, et al. **Life Sci** 1997;61(7):739-47

Neopterin, beta 2-microglobulin, and acute phase proteins in HIV-1-seropositive and -seronegative Zambian patients with tuberculosis. Hosp M, et al. **Lung** 1997;175(4):265-75

Enzymatic synthesis of 6R-[U-14C]tetrahydrobiopterin from [U-14C]GTP. Hoshiga M, et al. **Methods Enzymol** 1997; 281:123-9

Determination of nitric oxide synthase cofactors: heme, FAD, FMN, and tetrahydrobiopterin. Klatt P, et al. **Methods Enzymol** 1996;268:358-65

Microtiter plate assay for biopterin using cryopreserved Crithidia fasciculata. Leeming RJ. **Methods Enzymol** 1997; 281:61-70

Determination of tetrahydrobiopterin biosynthetic activities by high-performance liquid chromatography with fluorescence detection. Werner ER, et al. **Methods Enzymol** 1997;281:53-61

Co-induction of nitric oxide and tetrahydrobiopterin synthesis in the myocardium in vivo. Hattori Y, et al. **Mol Cell Biochem** 1997 Jan;166(1-2):177-81

Tetrahydrobiopterin preferentially stimulates activity and promotes subunit aggregation of membrane-bound calcium-dependent nitric oxide synthase in human placenta. Sahin-Tóth M, et al. **Mol Hum Reprod** 1997 Apr; 3(4):293-8

Tetrahydrobiopterin biosynthesis in the rat brain: heterogeneity of GTP cyclohydrolase I mRNA expression in monoamine-containing neurons [published erratum appears in Neurochem Int 1996 Oct;29(4):I-II] Lentz SI, et al. **Neurochem Int** 1996 May-Jun;28(5-6):569-82

GTP cyclohydrolase I gene, tetrahydrobiopterin, and tyrosine hydroxylase gene: their relations to dystonia and parkinsonism. Nagatsu T, et al. **Neurochem Res** 1996 Feb; 21(2):245-50 (47 ref.)

Distribution of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin in regional brain areas of inbred strains of rats and mice with different alcohol preferences. Yoshimoto K, et al. **Neuropsychobiology** 1996;33(2):85-9

Acute effects of tetrahydrobiopterin on the dynamic characteristics and adaptability of of vestibulo-ocular reflex in normal and flocculus lesioned rabbits. Nagao S, et al. **Neurosci Lett** 1997 Aug 1;231(1):41-4

Dissociated release of tetrahydrobiopterin and nitric oxide by lipopolysaccharide from mouse neuroblastoma cells. Yoshida S, et al. **Neurosci Lett** 1996 Jul 12;212(2):135-8

Effects of ethanol on the levels of brain 6R-L-erythro-5, 6, 7, 8-tetrahydrobiopterin in the inbred strains of mice. DBA/2J, C3H/HeJ and C57BL/6J with different alcohol preferences. Yoshimoto K, et al. **Nihon Arukoru Yakubutsu Igakkai Zasshi** 1997 Apr; 32(2):139-48

Activation and dimerization of type III nitric oxide synthase by submicromolar concentrations of tetrahydrobiopterin in microsomal preparations from human primordial placenta. Tóth M, et al. **Placenta** 1997 Mar-Apr;18(2-3):189-96

Tetrahydrobiopterin, nitric oxide and regulation of cerebral arterial tone. Kinoshita H, et al. **Prog Neurobiol** 1997 Jul; 52(4):295-302 (77 ref.)

Neopterin in acute pancreatitis. Uomo G, et al. **Scand J Gastroenterol** 1996 Oct;31(10):1032-6

Intrathecal production of neopterin and beta 2 microglobulin in tick-borne encephalitis (TBE) compared to meningoencephalitis of other etiology. Günther G, et al. **Scand J Infect Dis** 1996;28(2):131-8

Intrathecal immunoactivation in patients with HIV-1 infection is reduced by zidovudine but not by didanosine. Hagberg L, et al. **Scand J Infect Dis** 1996;28(4):329-33

Tetrahydrobiopterin, a cofactor for nitric oxide synthase, produces endothelium-dependent dilation of mouse pial arterioles. Rosenblum WI. **Stroke** 1997 Jan;28(1):186-9

High plasma levels of nitrogen oxides are associated with severe disease and correlate with rapid parasitological and clinical cure in Plasmodium falciparum malaria [see comments] Kremsner PG, et al. **Trans R Soc Trop Med Hyg** 1996 Jan-Feb;90(1):44-7. Comment in: Trans R Soc Trop Med Hyg 1997 Mar-Apr;91(2):238-40.

Pancreas-specific protein (PASP), serum amyloid A (SAA), and neopterin (NEOP) in the diagnosis of rejection after simultaneous pancreas and kidney transplantation. Müller TF, et al. **Transpl Int** 1997;10(3):185-91

Value of circulating immune parameters in renal transplantation. Rebhandl W, et al. **Transplant Proc** 1997 May;29(3):1881-5

Tetrahydrobiopterin and inherited hyperphenylalaninemias. Blau N, et al. **Turk J Pediatr** 1996 Jan-Mar;38(1):19-35 (102 ref.)

Evaluation of commercially available assays of neopterin and beta 2-microglobulin for the assessment of disease progression in FIV-infected cats. Beatty JA, et al. **Vet Immunol Immunopathol** 1997 May;56(1-2):185-9

[Urinary excretion of neopterin and plasma levels of interferon gamma in patients with multiple myeloma] Spička I, et al. **Vnitr Lek** 1996 Oct;42(10):665-8 (Eng. Abstr.) **(Cze)**

[Liberation of neopterin after lung resecting interventions with and without bronchial carcinoma] Gebhard F, et al. **Chirurg** 1996 Jul;67(7):725-9 (Eng. Abstr.) **(Ger)**

[Role of the immune parameter neopterin in adnexitis] Marth C, et al. **Zentralbl Gynakol** 1996;118(3):164-8 (Eng. Abstr.) **(Ger)**

[Urinary neopterin levels in patients with genitourinary tract malignancies] Asano T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jan;88(1):53-8 (Eng. Abstr.) **(Jpn)**

[A possibility of therapeutic trial with tetrahydrobiopterin, which was suggested by the administration of sulfamethoxazole-trimethoprim] Sakai T. **Rinsho Shinkeigaku** 1996 Dec;36(12):1324-5 (Eng. Abstr.) **(Jpn)**

[Serum neopterin in hemorrhagic vasculitis] Baranov AA, et al. **Klin Med (Mosk)** 1997;75(6):34-6 (Eng. Abstr.) **(Rus)**

[Neopterin: marker of cellular immunity activation in idiopathic inflammatory myopathy] Nasonov EL, et al. **Klin Med (Mosk)** 1997;75(2):47-51 **(Rus)**

[Activation of cellular immunity in Wegener's granulomatosis: a study of neopterin, interleukin-2 receptors and tumor necrosis factor] Nasonov EL, et al. **Ter Arkh** 1996;68(11):67-70 **(Rus)**

[Neopterin as marker of immunologic activation in viral and bacterial infections] Panero López A, et al. **An Esp Pediatr** 1996 Dec;45(6):597-602 (Eng. Abstr.) **(Spa)**

ANALYSIS

Microtiter plate assay for biopterin using cryopreserved Crithidia fasciculata. Leeming RJ. **Methods Enzymol** 1997; 281:61-70

BLOOD

Effect of septicaemia on the plasma levels of biopterin and nitric oxide metabolites in rats and rabbits. van Amsterdam JG, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1447-51

METABOLISM

Modulation of tryptophan hydroxylase activity in vitro by ethanol depends on biopterin cofactor concentration. Matsubara K, et al. **Alcohol** 1996 Sep-Oct;13(5):455-9

PHARMACOLOGY

Effects of neopterin-derivatives on H2O2-induced luminol chemiluminescence: mechanistic aspects. Murr C, et al. **Free Radic Biol Med** 1996;21(4):449-56

BIOREACTORS

see related
FERMENTATION
RECOMBINANT PROTEINS

Bioregeneration with maltose excreting Chlorella: system concept, technological development, and experiments. Wolf L. **Adv Space Biol Med** 1997;6:255-74 (16 ref.)

The culture of chicken embryo fibroblast cells on microcarriers to produce infectious bursal disease virus. Zhang L, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar; 62(2-3):291-302

Optimization of L-(+)-lactic acid production by ring and disc plastic composite supports through repeated-batch biofilm fermentation. Ho KL, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2533-42

Succession and convergence of biofilm communities in fixed-film reactors treating aromatic hydrocarbons in groundwater. Massol-Deyá A, et al. **Appl Environ Microbiol** 1997 Jan;63(1):270-6

Nitrogen removal by tubular gel containing Nitrosomonas europaea and Paracoccus denitrificans. Uemoto H, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4224-8

Microencapsulated genetically engineered E. coli DH5 cells for plasma urea and ammonia removal based on: 1. Column bioreactor and 2. Oral administration in uremic rats. Prakash S, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May; 24(3):201-18

Optimization and assessment of the in vivo efficacy of a heparin removing bio-reactor using mathematical modeling. Byun Y, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M782-7

Cell growth on cordierite: an approach to the identification of reliable supports for continuous-flow solid-bed reactors. Orlandi L, et al. **Biomaterials** 1997 Jul;18(14):955-61

Acclimation and selection for methanesulfonic acid (MSA) degrading microbial population using continuous culture techniques. Magliette RJ, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):406-12

Studies on high-density cultivation of Vero cells with biosilon solid microcarrier. Wang D, et al. **Chin J Biotechnol** 1996;12(2):119-29

Biological waste air treatment in biofilters. Deshusses MA. **Curr Opin Biotechnol** 1997 Jun;8(3):335-9 (28 ref.)

Anaerofilum pentosovorans gen. nov., sp. nov., and Anaerofilum agile sp. nov., two new, strictly anaerobic, mesophilic, acidogenic bacteria from anaerobic bioreactors. Zellner G, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):871-5

In vitro evaluation of a novel bioreactor based on an integral oxygenator and a spirally wound nonwoven polyester matrix for hepatocyte culture as small aggregates. Flendrig LM, et al. **J Hepatol** 1997 Jun;26(6):1379-92

Measurement of glucose consumption by hybridoma cells growing in hollow fiber cartridge bioreactors: use of blood glucose self-monitoring devices. Nayak RC, et al. **J Immunol Methods** 1997 Jul 14;205(2):109-14

Ciliatological characterization of a biological reactor that eliminates nitrogen with intermitent aeration. Luna-Pabello VM, et al. **Rev Latinoam Microbiol** 1996 Apr-Jun; 38(2):89-96

The past, present and future of transgenic bioreactors. Drohan WN. **Thromb Haemost** 1997 Jul;78(1):543-7 (57 ref.)

[Metabolic evaluation of cultured porcine hepatocyte monolayers in human plasma from hepatic failure patients--basic study on development of a bioreactor in hybrid artificial liver. Matsue H. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):543-55 (Eng. Abstr.) **(Jpn)**

[The development of a nutrient medium for Bifidobacterium bifidum biomass accumulation in continuous cultivation processes in a bioreactor] Kritskaia IV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct;(5):81-3 (Eng. Abstr.) **(Rus)**

STANDARDS

Importance of the kinetic characterization of liver cell metabolic reactions to the design of hybrid liver support devices. Catapano G, et al. **Int J Artif Organs** 1996 Nov; 19(11):670-6 (19 ref.)

Comparison of hollow fibre membranes for hepatocyte immobilisation in bioreactors. Gerlach JC, et al. **Int J Artif Organs** 1996 Oct;19(10):610-6

BIORHYTHMS see **PERIODICITY**

BIOSATELLITES see **SPACECRAFT**

BIOSENSORS

Novel biosensoric devices based on molecular protein hetero-multilayer films. Diederich A, et al. **Adv Biophys** 1997;34:205-30

Reusable, real-time, immuno-optical protein C biosensor. Kang KA, et al. **Adv Exp Med Biol** 1997;411:437-44

An oxidant sensor at the plasma membrane. Knebel A, et al. **Adv Exp Med Biol** 1996;387:57-62 (36 ref.)

Detection of botulinum neurotoxins using optical fiber-based biosensor. Singh BR, et al. **Adv Exp Med Biol** 1996; 391:499-508

Studies of protein interactions by biosensor technology: an alternative approach to the analysis of sensorgrams deviating from pseudo-first-order kinetic behavior. Bowles MR, et al. **Anal Biochem** 1997 Jan 1;244(1):133-43

Theoretical analysis of protein concentration determination using biosensor technology under conditions of partial mass transport limitation. Christensen LL. **Anal Biochem** 1997 Jul 1;249(2):153-64 (20 ref.)

Determination of association rate constants by an optical biosensor using initial rate analysis. Edwards PR, et al. **Anal Biochem** 1997 Mar 1;246(1):1-6

Use of a resonant mirror biosensor to characterize the interaction of carboxypeptidase A with an elicited monoclonal antibody. Hall DR, et al. **Anal Biochem** 1997 Jan 1;244(1):152-60

Demonstration of an upper limit to the range of association rate constants amenable to study by biosensor technology based on surface plasmon resonance. Hall DR, et al. **Anal Biochem** 1996 Mar 15;235(2):175-84

BIA/MS: interfacing biomolecular interaction analysis with mass spectrometry. Krone JR, et al. **Anal Biochem** 1997 Jan 1;244(1):124-32

Accurate topological comparison of two recombinant human growth hormones by optical surface plasmon resonance. Mani JC, et al. **Anal Biochem** 1997 May 15;248(1):50-62

Interpretation of deviations from pseudo-first-order kinetic behavior in the characterization of ligand binding by biosensor technology. O'Shannessy DJ, et al. **Anal Biochem** 1996 May 1;236(2):275-83 (27 ref.)

Real-time observation of affinity reactions using grating couplers: determination of the detection limit and calculation of kinetic rate constants. Polzius R, et al. **Anal Biochem** 1997 Jun 1;248(2):269-76

An amperometric new methylene blue N-mediating sensor for hydrogen peroxide based on regenerated silk fibroin as an immobilization matrix for peroxidase. Qian J, et al. **Anal Biochem** 1996 May 1;236(2):208-14

Concentration measurement of unpurified proteins using biosensor technology under conditions of partial mass transport limitation. Richalet-Sécordel PM, et al. **Anal Biochem** 1997 Jul 1;249(2):165-73

Analysis of mass transport-limited binding kinetics in evanescent wave biosensors. Schuck P, et al. **Anal Biochem** 1996 Sep 5;240(2):262-72

Thermodynamic analysis of antigen-antibody binding using biosensor measurements at different temperatures. Zeder-Lutz G, et al. **Anal Biochem** 1997 Mar 1; 246(1):123-32

Sensing O2 in blood [news] **Anal Chem** 1996 Dec 1; 68(23):719A

Screen-printed biosensors for environmental applications [news] **Anal Chem** 1996 Dec 1;68(23):711A

Fiber-optic evanescent wave biosensor for the detection of oligonucleotides. Abel AP, et al. **Anal Chem** 1996 Sep 1; 68(17):2905-12

Analysis of biosensor chips for identification of nucleic acids. Arlinghaus HF, et al. **Anal Chem** 1997 Sep 15; 69(18):3747-53

Application of redox enzymes for probing the antigen-antibody association at monolayer interfaces: development of amperometric immunosensor electrodes. Blonder R, et al. **Anal Chem** 1996 Sep 15;68(18):3151-7

Bile acid measurements using a cholestyramine-coated TSM acoustic wave sensor. Chance JJ, et al. **Anal Chem** 1996 Sep 15;68(18):3104-11

Fiber-optic-based biomonitoring of benzene derivatives by recombinant E. coli bearing luciferase gene-fused TOL-plasmid immobilized on the fiber-optic end. Ikariyama Y, et al. **Anal Chem** 1997 Jul 1;69(13):2600-5

Thin-film microbiosensors for glucose-lactate monitoring. Jobst G, et al. **Anal Chem** 1996 Sep 15;68(18):3173-9

Polymeric mercaptosilane-modified platinum electrodes for elimination of interferants in glucose biosensors. Jung SK, et al. **Anal Chem** 1996 Feb 15;68(4):591-6

Design of a stable charge transfer complex electrode for a third-generation amperometric glucose sensor. Khan GF, et al. **Anal Chem** 1996 Sep 1;68(17):2939-45

Hydrogen peroxide sensor based on coimmobilized methylene green and horseradish peroxidase in the same montmorillonite-modified bovine serum albumin-glutaraldehyde matrix on a glassy carbon electrode surface. Lei C, et al. **Anal Chem** 1996 Oct 1; 68(19):3344-9

Characterization of immobilization of an enzyme in a modified Y zeolite matrix and its application to an amperometric glucose biosensor. Liu B, et al. **Anal Chem** 1997 Jul 1;69(13):2343-8

Glutamine biosensors for biotechnology applications, with suppression of the endogenous glutamate signal. Mădăraş MB, et al. **Anal Chem** 1997 Sep 15;69(18):3674-8

Miniaturized biosensors employing electropolymerized permselective films and their use for creatine assays in human serum. Mădăraş MB, et al. **Anal Chem** 1996 Nov 1;68(21):3832-9

A conducting salt-based amperometric biosensor for measurement of extracellular lactate accumulation in ischemic myocardium. Marzouk SA, et al. **Anal Chem** 1997 Jul 15;69(14):2646-52

In vivo brain glucose measurements: differential normal pulse voltammetry with enzyme-modified carbon fiber microelectrodes. Netchiporouk LI, et al. **Anal Chem** 1996 Dec 15;68(24):4358-64

An optical method for evaluating ion selectivity for calcium signaling pathways in the cell. Ozawa T, et al. **Anal Chem** 1997 Aug 1;69(15):3081-5

Amperometric immunosensors based on rigid conducting immunocomposites. Santandreu M, et al. **Anal Chem** 1997 Jun 1;69(11):2080-5

Statistics for critical clinical decision making based on readings of pairs of implanted sensors. Schmidtke DW, et al. **Anal Chem** 1996 Sep 1;68(17):2845-9

Development of a surface acoustic wave immunosensor. Weisch W, et al. **Anal Chem** 1996 Jul 1;68(13):2000-4

Calcium biosensing with a sol-gel immobilized photoprotein. Blyth DJ, et al. **Analyst** 1996 Dec;121(12):1975-8

Amperometric bienzymic sensor for aspartame. Compagnone D, et al. **Analyst** 1997 May;122(5):487-90

Influence of surface-active compounds on the response and sensitivity of cholinesterase biosensors for inhibitor determination. Evtugyn GA, et al. **Analyst** 1996 Dec; 121(12):1911-5

Sensitive and specific electrochemical sensors for charge-diffuse cations: use of lipophilic cyclodextrins and an enzyme relay for the determination of acetylcholine. Kataky R, et al. **Analyst** 1996 Dec;121(12):1829-34

Detection and analysis of the growth characteristics of Proteus vulgaris with a bulk acoustic wave ammonia sensor. Tan H, et al. **Analyst** 1997 Feb;122(2):179-84

Self-assembled monolayers for biosensors. Wink T, et al. **Analyst** 1997 Apr;122(4):43R-50R (102 ref.)

Novel instrumentation for real-time monitoring using miniaturized flow systems with integrated biosensors. Freaney R, et al. **Ann Clin Biochem** 1997 May;34 (Pt 3):291-302

Amperometric enzyme-channeling immunosensor. Rishpon J, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:508-13

Use of surface plasmon resonance to probe the equilibrium and dynamic aspects of interactions between biological macromolecules. Schuck P. **Annu Rev Biophys Biomol Struct** 1997;26:541-66 (118 ref.)

Detection of endotoxin using an evanescent wave fiber-optic biosensor. James EA, et al. **Appl Biochem Biotechnol** 1996 Sep;60(3):189-202

Immobilization of glucose oxidase with the blend of regenerated silk fibroin and poly(vinyl alcohol) and its application to a 1,1'-dimethylferrocene-mediating glucose sensor. Liu Y, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2-3):105-17

Antigen-antibody binding kinetics for biosensor applications. A dual-fractal analysis. Sadana A, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2-3):275-90

Antigen-antibody binding kinetics for biosensors. Changes in the fractal dimension (surface roughness) and in the binding rate coefficient. Sadana A, et al. **Appl Biochem Biotechnol** 1996 Aug;60(2):123-38 (37 ref.)

Oligonucleotide microchips as genosensors for determinative and environmental studies in microbiology. Guschin DY, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2397-402

Immunoassay reagents for thyroid testing. 2. Binding properties and energetic parameters of a T4 monoclonal antibody and its Fab fragment with a library of thyroxine analog biosensors using surface plasmon resonance. Adamczyk M, et al. **Bioconjug Chem** 1997 Mar-Apr; 8(2):133-45

Measurement of bioactive neuropeptides using a chromatographic immunosensor cartridge. Phillips TM. **Biomed Chromatogr** 1996 Nov-Dec;10(6):331-6

Development of a new capillary electrophoresis-based fibre optic sensor. Stokes DL, et al. **Biomed Chromatogr** 1997 Jul-Aug;11(4):187-92

A glucose biosensor based on an oxygen electrode: in-vitro performances in model buffer solution and in blood plasma. Yang S, et al. **Biomed Instrum Technol** 1996 Jan-Feb; 30(1):55-61

Kinetic analysis of a protein antigen-antibody interaction limited by mass transport on an optical biosensor. Myszka DG, et al. **Biophys Chem** 1997 Feb 28;64(1-3):127-37

Effectiveness of protein A for antibody immobilization for a fiber optic biosensor. Anderson GP, et al. **Biosens Bioelectron** 1997;12(4):329-36

Elaboration and use of nickel planar macrocyclic complex-based sensors for the direct electrochemical measurement of nitric oxide in biological media. Bedioui F, et al. **Biosens Bioelectron** 1997;12(3):205-12

Development of an ultra high sensitive tissue biosensor for determination of swellfish poisoning, tetrodotoxin. Cheun B, et al. **Biosens Bioelectron** 1996;11(12):1185-91

Measurement of soluble L-lactate in dairy products using screen-printed sensors in batch mode. Collier WA, et al. **Biosens Bioelectron** 1996;11(10):1041-9

Monitoring of cellular behaviour by impedance measurements on interdigitated electrode structures. Ehret R, et al. **Biosens Bioelectron** 1997;12(1):29-41

Adsorption of immunoglobulin G on carbon paste electrodes as a basis for the development of immunoelectrochemical devices. Fernández-Sánchez C, et al. **Biosens Bioelectron** 1997;12(5):403-13

Patterning of immobilized antibody layers via photolithography and oxygen plasma exposure. Flounders AW, et al. **Biosens Bioelectron** 1997;12(6):447-56

Flow-through amperometric immunosensor: fast 'sandwich' scheme immunoassay. Ghindilis AL, et al. **Biosens Bioelectron** 1997;12(5):415-23

Studies on dynamic behavior of the biosensor based on immobilized glucoamylase-glucose oxidase membrane. Gondo S, et al. **Biosens Bioelectron** 1997;12(5):395-401

Odor, drug and toxin analysis with neuronal networks in vitro: extracellular array recording of network responses. Gross GW, et al. **Biosens Bioelectron** 1997;12(5):373-93

Antibody characteristics for a continuous response fiber optic immunosensor for theophylline. Hanbury CM, et al. **Biosens Bioelectron** 1996;11(11):1129-38

Multianalyte biosensors on optical imaging bundles. Healey BG, et al. **Biosens Bioelectron** 1997;12(6):521-9

Novel hexacyanoferrate (III)-modified carbon electrodes: application in miniaturized biosensors with potential for in vivo glucose sensing. Jaffari SA, et al. **Biosens Bioelectron** 1996;11(11):1167-75

Organic charge transfer complex based printable biosensor. Khan GF. **Biosens Bioelectron** 1996;11(12):1221-7

Lactate solid-state biosensor with multilayer of electrodeposited polymers for flow-injection clinical analysis. Krawczyński vel Krawczyk T, et al. **Biosens Bioelectron** 1996;11(11):1155-65

Affinity immunosensor for milk progesterone: identification of critical parameters. Laitinen MP, et al. **Biosens Bioelectron** 1996;11(12):1207-14

Free cholesterol fiber-optic biosensor for serum samples with simplex optimization. Marazuela MD, et al. **Biosens Bioelectron** 1997;12(3):233-40

Voltammetric enzyme sensor for urea using mercaptohydroquinone-modified gold electrode as the base transducer. Mizutani F, et al. **Biosens Bioelectron** 1997; 12(4):321-8

Continuous monitoring of L-glutamate released from cultured nerve cells by an online sensor coupled with micro-capillary sampling. Niwa O, et al. **Biosens Bioelectron** 1997;12(4):311-9

Biosensors for chemical and biological agents of defence interest. Paddle BM. **Biosens Bioelectron** 1996; 11(11):1079-113 (156 ref.)

A cell-based immunobiosensor with engineered molecular recognition--Part II: Enzyme amplification systems. Page DL, et al. **Biosens Bioelectron** 1997;12(6):457-66

A new type of hydrophilic carbon paste electrodes for biosensor manufacturing: binder paste electrodes. Parellada J, et al. **Biosens Bioelectron** 1997;12(4):267-75

Enzyme support systems for biosensor applications based on gold-coated nylon meshes. Pariente F, et al. **Biosens Bioelectron** 1996;11(11):1115-28

Amperometric lactate oxidase catheter for real-time lactate monitoring based on thin film technology. Pfeiffer D, et al. **Biosens Bioelectron** 1997;12(6):539-50

A cell-based immunobiosensor with engineered molecular recognition--Part I: Design feasibility. Pizziconi VB, et al. **Biosens Bioelectron** 1997;12(4):287-99

The development of a new biosensor based on recombinant E. coli for the direct detection of organophosphorus neurotoxins. Rainina EI, et al. **Biosens Bioelectron** 1996; 11(10):991-1000

An amperometric enzyme-channeling immunosensor. Rishpon J, et al. **Biosens Bioelectron** 1997;12(3):195-204

Microbial biosensor for free fatty acids using an oxygen electrode based on thick film technology. Schmidt A, et al. **Biosens Bioelectron** 1996;11(11):1139-45

A tryptophan-2-monooxygenase based amperometric biosensor for L-tryptophan determination: use of a competitive inhibitor as a tool for selectivity increase. Simonian AL, et al. **Biosens Bioelectron** 1997;12(5):363-71

Construction and characterization of the direct piezoelectric immunosensor for atrazine operating in solution. Steegborn C, et al. **Biosens Bioelectron** 1997;12(1):19-27

Electrochemical evaluation of chemical selectivity of glutamate receptor ion channel proteins with a multi-channel sensor. Sugawara M, et al. **Biosens Bioelectron** 1997;12(5):425-39

Activating piezoelectric crystal surface by silanization for microgravimetric immunobiosensor application. Suri CR, et al. **Biosens Bioelectron** 1996;11(12):1199-205

Application of biosensor for monitoring galactose content. Szabó EE, et al. **Biosens Bioelectron** 1996;11(10):1051-8

Towards amperometric immunosensor devices. Tiefenauer LX, et al. **Biosens Bioelectron** 1997;12(3):213-23

Evaluation of a fiber optic immunosensor for quantitating cocaine in coca leaf extracts. Toppozada AR, et al. **Biosens Bioelectron** 1997;12(2):113-24

Highly sensitive determination of hydrogen peroxide and peroxidase with tetrathiafulvalene-based electrodes and the application in immunosensing. Wendzinski F, et al. **Biosens Bioelectron** 1997;12(1):43-52

BIOSENSORS

Potential of microsensor-based feedback bioactuators for biophysical cancer treatment. Wolf B, et al. **Biosens Bioelectron** 1997;12(4):301–9 (58 ref.)

Kinetic modeling and analysis of a vesicle system for immunosensor development. Yu YY, et al. **Biosens Bioelectron** 1997;12(2):135–44

Development of a haemocompatible pO2 sensor with phospholipid-based copolymer membrane. Zhang S, et al. **Biosens Bioelectron** 1996;11(10):1019–29

Electrochemical biosensors—ways to improve sensor performance. Wollenberger U. **Biotechnol Genet Eng Rev** 1996;13:237–66 (112 ref.)

Hypoxia triggers neuroprotective alterations in hippocampal gene expression via a heme-containing sensor. Gage AT, et al. **Brain Res** 1996 May 6;719(1–2):172–8

A rapid bioassay to detect mycotoxins using a melanin precursor overproducer mutant of the ciliate Tetrahymena thermophila. Martín González A, et al. **Cell Biol Int** 1997 Apr;21(4):213–6

Designed protein pores as components for biosensors. Braha O, et al. **Chem Biol** 1997 Jul;4(7):497–505

A 'litmus test' for molecular recognition using artificial membranes. Charych D, et al. **Chem Biol** 1996 Feb; 3(2):113–20

Assessment of conducting polymer odour sensors for agricultural malodour measurements. Persaud KC, et al. **Chem Senses** 1996 Oct;21(5):495–505

Hartman interferometer: versatile integrated optic sensor for label-free, real-time quantification of nucleic acids, proteins, and pathogens. Schneider BH, et al. **Clin Chem** 1997 Sep;43(9):1757–63

Use of an enzyme thermistor for semi-continuous blood glucose measurements. Carlsson T, et al. **Clin Chim Acta** 1996 Jul 30;251(2):187–200

Epitope analysis of the Goodpasture antigen using a resonant mirror biosensor. Levy JB, et al. **Clin Exp Immunol** 1996 Oct;106(1):79–85

Reliable determination of binding affinity and kinetics using surface plasmon resonance biosensors. Schuck P. **Curr Opin Biotechnol** 1997 Aug;8(4):498–502 (43 ref.)

Studying interactions involving the T-cell antigen receptor by surface plasmon resonance. Margulies DH, et al. **Curr Opin Immunol** 1996 Apr;8(2):262–70 (56 ref.)

Analysis of cell-adhesion molecule interactions using surface plasmon resonance. van der Merwe PA, et al. **Curr Opin Immunol** 1996 Apr;8(2):257–61 (42 ref.)

A new approach to determine the effect of mismatches on kinetic parameters in DNA hybridization using an optical biosensor. Gotoh M, et al. **DNA Res** 1995 Dec 31; 2(6):285–93

Nucleic acid based sensors. Bier FF, et al. **EXS** 1997; 80:97–120

Studies on pyroelectric response of polymers modified with azobenzene moieties. Brehmer L, et al. **EXS** 1997;80:155–65

Thermistor-based biosensing. Danielsson B, et al. **EXS** 1997; 81:71–85

New biosensors for environmental analysis. Hansen PD, et al. **EXS** 1997;81:109–20

Microbiosensors using electrodes made in Si-technology. Hintsche R, et al. **EXS** 1997;80:267–83

Screening and characterization of new enzymes for biosensing and analytics. Hummel W. **EXS** 1997;80:49–61

Electron transfer via redox hydrogels between electrodes and enzymes. Katakis I, et al. **EXS** 1997;80:229–41

Challenges in the development of (bio)chemical sensors for whole blood medical diagnostic applications. Luedi H. **EXS** 1997;81:141–8

Immunosensors for clinical diagnostics. McNeil CJ, et al. **EXS** 1997;81:17–25

Phenol-oxidizing enzymes: mechanisms and applications in biosensors. Peter MG, et al. **EXS** 1997;80:63–82

Commercial biosensors for medical application. Pfeiffer D. **EXS** 1997;81:149–60

Present state and frontiers in biosensorics. Scheller FW, et al. **EXS** 1997;80:1–9

Coupling of enzyme reactions to the charge transfer at the interface of two immiscible solvents. Senda M. **EXS** 1997; 80:193–207

Biosensors based on flow-through systems. Spener F, et al. **EXS** 1997;81:27–44

Receptor based chemical sensing. Sugawara M, et al. **EXS** 1997;80:121–31

Biosensors with modified electrodes for in vivo and ex vivo applications. Urban GA, et al. **EXS** 1997;81:161–71

Förster energy transfer in ultrathin polymer layers as a basis for biosensors. Völker M, et al. **EXS** 1997;80:175–91

Biosensors for food analysis. Warsinke A. **EXS** 1997; 81:121–39

Enzymatic substrate recycling electrodes. Wollenberger U, et al. **EXS** 1997;81:45–69

Imprinting techniques in synthetic polymers—new options for chemosensors. Wulff G. **EXS** 1997;80:13–26

Identification of the 4-hydroxyphenylacetate transport gene of Escherichia coli W: construction of a highly sensitive cellular biosensor. Prieto MA, et al. **FEBS Lett** 1997 Sep 8;414(2):293–7

Detection of human asialo-alpha(1)-acid glycoprotein using a heterosandwich immunoassay in conjunction with the light addressable potentiometric sensor. Dill K, et al. **Glycoconj J** 1996 Aug;13(4):637–41

A biosensor based on micromechanical interrogation of living cells [see comments] Antonik MD, et al. **IEEE Eng Med Biol Mag** 1997 Mar-Apr;16(2):66–72. Comment in: IEEE Eng Med Biol Mag 1997 Mar-Apr;16(2):26–7.

Uses of biosensors in the study of viral antigens. Van Regenmortel MH, et al. **Immunol Invest** 1997 Jan-Feb; 26(1–2):67–82 (48 ref.)

Rapid, sensitive and specific detection of whole cells and spores using the light-addressable potentiometric sensor. Dill K, et al. **J Biochem Biophys Methods** 1997 Mar 27; 34(2):161–6

Signal detection by the PhoQ sensor-transmitter. Characterization of the sensor domain and a response-impaired mutant that identifies ligand-binding determinants. Waldburger CD, et al. **J Biol Chem** 1996 Oct 25;271(43):26630–6

Kinetic analysis of the interaction between the monoclonal antibody A33 and its colonic epithelial antigen by the use of an optical biosensor. A comparison of immobilisation strategies. Catimel B, et al. **J Chromatogr A** 1997 Jul 25; 776(1):15–30

Determining the characteristics of water pollutants by neural sensors and pattern recognition methods. Yatsenko V. **J Chromatogr A** 1996 Jan 26;722(1–2):233–43

Experimental design for kinetic analysis of protein-protein interactions with surface plasmon resonance biosensors. Karlsson R, et al. **J Immunol Methods** 1997 Jan 15; 200(1–2):121–33

Detection of blood group antigens utilising immobilised antibodies and surface plasmon resonance. Quinn JG, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):87–96

New technologies for amperometric biosensors. Boutelle MG, et al. **J Mol Recognit** 1996 Sep-Dec;9(5–6):664–71

Principles and applications of flow injection analysis in biosensors. Hansen EH. **J Mol Recognit** 1996 Sep-Dec; 9(5–6):316–25 (39 ref.)

Immobilization of streptavidin for immunosensors on nanostructured surfaces. Kossek S, et al. **J Mol Recognit** 1996 Sep-Dec;9(5–6):485–7

Preliminary investigations of an amperometric oligosaccharide dehydrogenase-based electrode for the detection of glucose and some other low molecular weight saccharides. Ruzgas T, et al. **J Mol Recognit** 1996 Sep-Dec; 9(5–6):480–4

Biosensors in flow-injection systems for biomedical analysis, process and environmental monitoring. Tran-Minh C. **J Mol Recognit** 1996 Sep-Dec;9(5–6):658–63

Amperometric microsensors for monitoring choline in the extracellular fluid of brain. Garguilo MG, et al. **J Neurosci Methods** 1996 Dec;70(1):73–82

Instrumentation of a handy microscopic probe for concurrent observation and measurement of active sweat secretion, and its applications. Kamei T, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1563–9

Screening for novel drug effects with a microphysiometer: a potent effect of clofilium unrelated to potassium channel blockade. Rabinowitz JD, et al. **Life Sci** 1997; 61(7):PL87–94

Ultrafiltrate sampling device for continuous monitoring. Moscone D, et al. **Med Biol Eng Comput** 1996 Jul; 34(4):290–4

Improved performance of intravascular pO2 sensor incorporating poly(MPC-co-BMA) membrane. Zhang S, et al. **Med Biol Eng Comput** 1996 Jul;34(4):313–5

Short-term canine implantation of a glucose monitoring-telemetry device. Atanasov P, et al. **Med Eng Phys** 1996 Dec;18(8):632–40

Glucose monitoring: state of the art and future possibilities. Wilkins E, et al. **Med Eng Phys** 1996 Jun;18(4):273–88 (189 ref.)

Epitope mapping by surface plasmon resonance in the BIAcore. Johne B. **Methods Mol Biol** 1996;66:67–76

An analysis of transport resistances in the operation of BIAcore; implications for kinetic studies of biospecific interactions. Yarmush ML, et al. **Mol Immunol** 1996 Oct; 33(15):1203–14

MutS interaction with mismatch and alkylated base containing DNA molecules detected by optical biosensor. Babic I, et al. **Mutat Res** 1996 Nov 11;372(1):87–96

A glucose-sensing polymer. Chen G, et al. **Nat Biotechnol** 1997 Apr;15(4):354–7

Real-time measurements of corticosteroids in conscious animals using an antibody-based electrode [see comments] Cook CJ. **Nat Biotechnol** 1997 May;15(5):467–71. Comment in: Nat Biotechnol 1997 May;15(5):421.

Immunosensors: The next generation [news; comment] Turner AP. **Nat Biotechnol** 1997 May;15(5):421. Comment on: Nat Biotechnol 1997 May;15(5):466–71.

Making an imprint on blood glucose monitoring [news] Wilson GS. **Nat Biotechnol** 1997 Apr;15(4):322

Chiral discrimination using piezoelectric and optical gas sensors. Bodenhöfer K, et al. **Nature** 1997 Jun 5; 387(6633):577–80

A biosensor that uses ion-channel switches [see comments] Cornell BA, et al. **Nature** 1997 Jun 5;387(6633):580–3. Comment in: Nature 1997 Jun 5;387(6633):555, 557.

Biosensors. Switching channels makes sense [news; comment] Turner AP. **Nature** 1997 Jun 5;387(6633):555, 557. Comment on: Nature 1997 Jun 5;387(6633):580–3.

Urea rebound and delivered Kt/V determination with a continuous urea sensor. Garred LJ, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):535–42

Brain glucose: voltammetric determination in normal and hyperglycaemic rats using a glucose microsensor. Shram NF, et al. **Neuroreport** 1997 Mar 24;8(5):1109–12

Real-time evaluation of somatostatin subtype 2 receptor activity employing the technique of cytosensor microphysiometry. Taylor JE, et al. **Peptides** 1996; 17(7):1257–9

Light-dependent oxygen consumption in bacteriochlorophyll-serine-treated melanoma tumors: on-line determination using a tissue-inserted oxygen microsensor. Zilberstein J, et al. **Photochem Photobiol** 1997 Jun;65(6):1012–9

The rational design of allosteric interactions in a monomeric protein and its applications to the construction of biosensors. Marvin JS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4366–71

Kinetic analysis of ligand binding to interleukin-2 receptor complexes created on an optical biosensor surface. Myszka DG, et al. **Protein Sci** 1996 Dec;5(12):2468–78

Selective colorimetric detection of polynucleotides based on the distance-dependent optical properties of gold nanoparticles [see comments] Elghanian R, et al. **Science** 1997 Aug 22;277(5329):1078–81. Comment in: Science 1997 Aug 22;277(5329):1036–7.

DNA ventures into the world of designer materials [news; comment] Service RF. **Science** 1997 Aug 22; 277(5329):1036–7. Comment on: Science 1997 Aug 22;277(5329):1078–81.

Self-consistency of kinetic data [letter; comment] Masson L. **Trends Biochem Sci** 1997 May;22(5):150. Comment on: Trends Biochem Sci 1996 Dec;21(12):458–60.

Kinetic data reliability [letter; comment] Panayotou G, et al. **Trends Biochem Sci** 1997 May;22(5):149. Comment on: Trends Biochem Sci 1996 Dec;21(12):458–60.

The 'sniffer-patch' technique for detection of neurotransmitter release. Allen TG. **Trends Neurosci** 1997 May;20(5):192–7 (34 ref.)

[Future biomedical sensors based on microelectromechanic system technology] Assentoft JE, et al. **Ugeskr Laeger** 1997 Mar 10;159(11):1590–2 **(Dan)**

[O2 sensitive L-lactate biosensors with enzyme membranes based on L-lactate-2-monooxygenase and L-lactate-oxidase with electroanalytic comparison] Guntermann H, et al. **Biomed Tech (Berl)** 1996 Oct; 41(10):268–72 (Eng. Abstr.) **(Ger)**

[Glucose sensors in tissue, glucose monitoring and controlled insulin administration] Pfeiffer EF. **Med Klin** 1996 Feb 15; 91 Suppl 1:12–5 **(Ger)**

[Lactate and glucose determination using biosensors in umbilical cord blood] Friedmann W, et al. **Z Geburtshilfe Neonatol** 1997 Jan-Feb;201(1):11–4 (Eng. Abstr.) **(Ger)**

[Micro fabricated enzyme battery] Sasaki S, et al. **Nippon Rinsho** 1996 Oct;54(10):2813–20 (0 ref.) (Eng. Abstr.) **(Jpn)**

[Use of a micturition-monitoring device in elderly inpatients] Toba K, et al. **Nippon Ronen Igakkai Zasshi** 1996 Sep; 33(9):681–5 (Eng. Abstr.) **(Jpn)**

[Gene diagnosis with an affinity sensor, BIACORE—principle and applications] Gotoh M, et al. **Rinsho Byori** 1997 Mar;45(3):224–8 (Eng. Abstr.) **(Jpn)**

[Developing the portable type sleep apnea detector, and verifying the usefulness of the device] Koja S, et al. **Seishin Shinkeigaku Zasshi** 1997;99(4):181–97 (Eng. Abstr.) **(Jpn)**

[Biosensor applications of protein-modified electrodes] Anzai J, et al. **Tanpakushitsu Kakusan Koso** 1997 Mar;42(4):679–83 (10 ref.) **(Jpn)**

[Sensors and photoelectric devises using photosynthetic proteins] Miyake J, et al. **Tanpakushitsu Kakusan Koso** 1996 Oct;41(13):2050–4 (11 ref.) **(Jpn)**

[Enzyme immunoassay with monoclonal antibody for environmental contaminants] Nakata M, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(14):2132–8 (7 ref.) **(Jpn)**

[The beginning of research and methodology on biosensor] Suzuki S. **Tanpakushitsu Kakusan Koso** 1997 Jan;42(1):73–6 (3 ref.) **(Jpn)**

[Saccharide sensing using a boronic-acid probe] Takeuchi M, et al. **Tanpakushitsu Kakusan Koso** 1996 Dec; 41(16):2584–92 (19 ref.) **(Jpn)**

[Functional biosensor] Teshima R, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1134–40 (36 ref.) **(Jpn)**

[Biomolecular electronic device using an artificial flavocytochrome] Ueyama S, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(2):181–5 (14 ref.) **(Jpn)**

[Pseudomonas bacteria as the basis of microbial sensor receptor elements for detecting aromatic xenobiotics] Reshetilov AN, et al. **Dokl Akad Nauk** 1996 Jun; 348(4):552–5 **(Rus)**

[Enzyme biosensors for penicillin determination based on conductometric planar electrodes and pH-sensitive field effect transistor] Arkhipova VN, et al. **Ukr Biokhim Zh** 1996 Jan-Feb;68(1):26–31 (Eng. Abstr.) **(Rus)**

[Miniature thin layer biosensors which are sensitive to glutamate and glutamine] Tiutrina GV, et al. **Vopr Med Khim** 1997 Jan-Feb;43(1):20–8 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Selection of binders from phage displayed antibody libraries

using the BIAcore biosensor. Malmborg AC, et al. **J Immunol Methods** 1996 Oct 30;198(1):51-7

STANDARDS

Fast temporal response fiber-optic chemical sensors based on the photodeposition of micrometer-scale polymer arrays. Healey BG, et al. **Anal Chem** 1997 Jun 1; 69(11):2213-6

Assay development for a portable fiberoptic biosensor. Anderson GP, et al. **ASAIO J** 1996 Nov-Dec;42(6):942-6

Kinetic analysis of biosensor data: elementary tests for self-consistency [see comments] Schuck P, et al. **Trends Biochem Sci** 1996 Dec;21(12):458-60. Comment in: Trends Biochem Sci 1997 May;22(5):149. Comment in: Trends Biochem Sci 1997 May;22(5):150.

BIOSTATISTICS see **BIOMETRY**

BIOSYNTHETIC PROTEINS see **RECOMBINANT PROTEINS**

BIOTECHNOLOGY

see related
GENETIC ENGINEERING
RECOMBINANT PROTEINS

Forest tree biotechnology. Dean JF, et al. **Adv Biochem Eng Biotechnol** 1997;57:1-44 (352 ref.)

Occupational health and safety in the biotechnology industry--a survey of practicing professionals. Lee SB, et al. **Am Ind Hyg Assoc J** 1996 Apr;57(4):381-6

FDA, reform, and the well-characterized biologic. Henry C. **Anal Chem** 1996 Nov 1;68(21):674A-677A

Proceedings of the 13th International Enzyme Engineering Conference. San Diego, California, October 15-20, 1995. **Ann N Y Acad Sci** 1996 Oct 12;799:1-790

Proceedings of the 18th Symposium on Biotechnology for Fuels and Chemicals. Gatlinburg, Tennessee, May 5-9, 1996. **Appl Biochem Biotechnol** 1997 Spring;63-65:1-897

PCR and sero-diagnosis of chronic Chagas' disease. Biotechnological advances. Gomes YM. **Appl Biochem Biotechnol** 1997 May;66(2):107-19 (44 ref.)

Ravens, contrapositives, and gene therapy [editorial] Sobel BE. **Coron Artery Dis** 1995 Oct;6(10):839-40

Developments in biotechnological research in Austria. Kubicek CP. **Crit Rev Biotechnol** 1996;16(3):217-55 (234 ref.)

The use of SCID mice in biotechnology and as a model for human disease. Sandhu JS, et al. **Crit Rev Biotechnol** 1996; 16(1):95-118 (86 ref.)

Why are some proteins allergenic? Implications for biotechnology. Lehrer SB, et al. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):553-64 (66 ref.)

Environmental biotechnology. **Curr Opin Biotechnol** 1997 Jun;8(3):381-93

Analytical biotechnology. Bibliography. Current world literature. **Curr Opin Biotechnol** 1997 Feb;8(1):121-44

Pharmaceutical biotechnology. **Curr Opin Biotechnol** 1996 Dec;7(6):669-704

Bibliography. Current world literature. Biochemical engineering. **Curr Opin Biotechnol** 1997 Apr;8(2):239-66

Web alert. Pharmaceutical biotechnology. Makalowski W, et al. **Curr Opin Biotechnol** 1996 Dec;7(6):667

Web alert. Analytical biotechnology. Makalowski W, et al. **Curr Opin Biotechnol** 1997 Feb;8(1):119

The biologist and the World Wide Web: an overview of the search engines technology, current status and future perspectives. Récipon H, et al. **Curr Opin Biotechnol** 1997 Feb;8(1):115-8 (31 ref.)

Web alert. Environmental biotechnology. Regulatory affairs. Récipon H, et al. **Curr Opin Biotechnol** 1997 Jun; 8(3):379-80

LMOs: treasure chest or Pandora's box? Baram M. **Environ Health Perspect** 1996 Jul;104(7):704-7

The relevance of pharmacokinetics in the development of biotechnology products. Toon S. **Eur J Drug Metab Pharmacokinet** 1996 Apr-Jun; 21(2):93-103 (71 ref.)

Germany: new beginnings for biotechnology. Stadler PJ. **FASEB J** 1997 Jun;11(7):505-8

Papers presented at the Chulabhorn Research Institute Conference on Biotechnology Research and Applications for Sustainable Development (BRASD). Bangkok, Thailand, 7-10 August 1995. **Gene** 1996 Nov 7;179(1):1-198

1996 survey of biotechnology drugs. Piascik P. **J Am Pharm Assoc (Wash)** 1996 Sep;NS36(9):545-6

Yeasts: from genetics to biotechnology. Russo S, et al. **J Environ Pathol Toxicol Oncol** 1995;14(3-4):133-57 (175 ref.)

The JIM interview. Art Levinson, PhD [interview] Levinson A. **J Investig Med** 1997 Jun;45(5):230-7

Micromachined analytical devices: microchips for semen testing. Kricka LJ, et al. **J Pharm Biomed Anal** 1997 Jun; 15(9-10):1443-7

Metabolic control analysis of inhibitory feedback interaction: application to biotechnological processes. Torres NV. **J Theor Biol** 1996 Oct 7;182(3):405-10

What bio technologists knew all along...? Westerhoff HV, et al. **J Theor Biol** 1996 Oct 7;182(3):411-20

Safety assessment of biotechnology-derived pharmaceutical products. General principles and the relevant cases. Maki E. **J Toxicol Sci** 1996 Dec;21(5):531-3 (3 ref.)

Crash and boom: the rise and fall of biotechnology [news] Mitchell P. **Lancet** 1997 Jul 26;350(9073):270

Uses of biotechnology in modifying plant lipids. Budziszewski GJ, et al. **Lipids** 1996 Jun;31(6):557-69 (121 ref.)

Structural identifiability of the yield coefficients in bioprocess models when the reaction rates are unknown. Chen L, et al. **Math Biosci** 1996 Feb;132(1):35-67

Miami Winter Symposium gets back to basics [editorial] **Nat Biotechnol** 1997 Feb;15(2):109

Should you hire an epistemologist?[letter] Bains W. **Nat Biotechnol** 1997 May;15(5):396

Biotechnology, bioremediation, and blue genes. Bialy H. **Nat Biotechnol** 1997 Feb;15(2):110

Biotechnology in Mexico: planning for the future. Bolívar F. **Nat Biotechnol** 1997 Aug;15(8):742-3

Roche-Mannheim: cornering the diagnosis-led healthcare market [news] Brower V. **Nat Biotechnol** 1997 Jul; 15(7):607-8

Biotechnology in the Islamic world. DaSilva EJ. **Nat Biotechnol** 1997 Aug;15(8):733-5

Novartis find sparks new GABA drug search [news] Eccleston A. **Nat Biotechnol** 1997 May;15(5):403-4

Biotech food labeling: polite hedging or loggerheads? [news] Fox JL. **Nat Biotechnol** 1997 Apr;15(4):308

Genetically enhanced food for thought. Golub ES. **Nat Biotechnol** 1997 Feb;15(2):112

Consumer acceptance of biotechnology: an international perspective. Hoban TJ. **Nat Biotechnol** 1997 Mar; 15(3):232-4

Markl opens Max-Planck's doors. Hodgson J. **Nat Biotechnol** 1997 Aug;15(8):741

Novartis' new labeling policy creates confusion. Hoyle R. **Nat Biotechnol** 1997 May;15(5):395

Molecular technologies for biodiversity evaluation: opportunities and challenges. Karp A, et al. **Nat Biotechnol** 1997 Jul;15(7):625-8 (20 ref.)

Minnesota's biotechnology portfolio. Nelson TR, et al. **Nat Biotechnol** 1997 Aug;15(8):737-40

World Wide Web sites in biotechnology. Sikorski R, et al. **Nat Biotechnol** 1997 May;15(5):475

Myriad's rationale for wider testing [news] Birmingham K. **Nat Med** 1997 Jul;3(7):709

Europe ambivalent on biotechnology. Biotechnology and the European Public Concerted Action group. **Nature** 1997 Jun 26;387(6636):845-7

News story that wasn't [editorial] **Nature** 1996 Dec 5; 384(6608):389

European biotech industry plans ethics panel [news] Butler D. **Nature** 1997 Jul 3;388(6637):6

Cistron has guts [letter] Galton BC. **Nature** 1996 Dec 5; 384(6608):401

DNA technology: Molecular fish on chips [news] Goffeau A. **Nature** 1997 Jan 16;385(6613):202-3

Going to work in genes catches on. Horton B. **Nature** 1996 Oct 24;383(6602):739-40

Germans learn to bet on biotech. Stiegler G. **Nature** 1996 Oct 24;383(6602):744

'Action needed to counter bioterrorism' [news] Wadman M. **Nature** 1997 Aug 21;388(6644):703

Policy differences 'threaten Israel's biotech potential' [news] Watzman H. **Nature** 1996 Dec 5;384(6608):396

Biotechnology in profiled dialysis. Bonomini V, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:63-7 (25 ref.)

Advances in gene technology: molecular biology of human genetic disease. Proceedings of the 1994 Miami Bio/Technology European Symposium. Monaco, November 17-20, 1994. **Nucleic Acids Symp Ser** 1995; (32):1-73

Evaluation of biotechnology products. Tami J, et al. **Pharmacotherapy** 1996 Jul-Aug;16(4):527-36

Advances in gene technology: biomolecular design, form and function. Proceeding of the 1997 Miami Nature Biotechnology Winter Symposium. February 1-5, 1997. **Protein Eng** 1997;10 Suppl:1-102

Perfluorochemical respiratory gas carriers: applications in medicine and biotechnology. Lowe KC. **Sci Prog** 1997;80 (Pt 2):169-93 (89 ref.)

The genomics gamble [news] Cohen J. **Science** 1997 Feb 7; 275(5301):767-72

Germany joins the biotech race [news] Dickman S. **Science** 1996 Nov 29;274(5292):1454-5

In industry, extremophiles begin to make their mark [news] Pennisi E. **Science** 1997 May 2;276(5313):705-6

Whitehead, three firms splice a deal [news] Roush W. **Science** 1997 May 9;276(5314):891

Overview of therapeutic drug monitoring and biotechnologic drugs. Wolf BA. **Ther Drug Monit** 1996 Aug;18(4):402-4

[Follow up of the interdisciplinary researcgh program BIOTEK] Christiansen G. **Ugeskr Laeger** 1997 Apr 7; 159(15):2238 **(Dan)**

[Preservation of genetic variation in domestic animals using biotechnical methods] Falge R, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep; 103(8-9):336-40 (42 ref.) (Eng. Abstr.) **(Ger)**

[The use of biotechnology in animal breeding] Groeneveld E, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep; 103(8-9):298-302 (9 ref.) (Eng. Abstr.) **(Ger)**

[New biotechnology frontiers in histocytopathology (editorial)] Pollice L. **Recenti Prog Med** 1996 Nov; 87(11):549-54 **(Ita)**

[Why do you want to see?] Ikai A. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):907-9 (0 ref.) **(Jpn)**

[Hygienic evaluation of combined biotechnology for treating sewage from artificial accumulations] Rozvaga RI, et al. **Gig Sanit** 1996 Jul-Aug;(4):8-10 (Eng. Abstr.) **(Rus)**

[Mechanisms of action and properties of the new antineoplastic agent polyplatillen and possibilities of its use in fields related to oncology] Shalimov SA, et al. **Klin Khir** 1996;(6):28-30 **(Rus)**

[The characteristics of cell lines used in biotechnology] Zhesterev VI, et al. **Tsitologiia** 1996;38(7):681-5 (Eng. Abstr.) **(Rus)**

[Biotechnology applied to the diagnosis of HIV/hepatitis C co-infection] Maroto Vela MC. **An R Acad Nac Med (Madr)** 1996;113(3):643-55; discussion 655-8 **(Spa)**

ECONOMICS

Reimbursement and patient assistance programs for biotech drugs. Kennedy HG, et al. **J Am Pharm Assoc (Wash)** 1997 Mar-Apr;NS37(2):136-7

Combining legal and business strategies to develop combinatorial chemistry businesses. Abraham D. **Nat Biotechnol** 1997 Jul;15(7):679-82

The empire strikes back. Brower V. **Nat Biotechnol** 1997 Jan;15(1):23-6

The case for commercial biotechnology in sub-Saharan Africa. Gbewonyo K. **Nat Biotechnol** 1997 Apr;15(4):325-7

Critical issues in gene therapy commercialization. Persidis A, et al. **Nat Biotechnol** 1997 Jul;15(7):689-90

Biotechnology valuation. Persidis A, et al. **Nat Biotechnol** 1997 Aug;15(8):813-4

Investment analysts paint rosy prospect for biotech [news] Lehrman S. **Nature** 1997 Jan 16;385(6613):189

Canada wins biotech boost of cancer vaccine project [news] Spurgeon D. **Nature** 1997 Jul 17;388(6639):214

New funds plant seeds for genome research effort [news] Kahn P. **Science** 1997 Jan 3;275(5296):25-6

A scientific result without the science [news] Vogel G. **Science** 1997 May 30;276(5317):1327

EDUCATION

introducing undergraduate students to animal science: a discovery course for non-majors. Kesler DJ. **J Anim Sci** 1997 Jan;75(1):273-6

INSTRUMENTATION

Biotechnology at low Reynolds numbers. Brody JP, et al. **Biophys J** 1996 Dec;71(6):3430-41

Study on the column process of adsorption decolorization for monosodium glutamate solution in fluidized beds. Shen J, et al. **Chin J Biotechnol** 1996;12(2):137-46

Looking at thermocyclers. Lähteenmäki R, et al. **Nat Biotechnol** 1997 Jul;15(7):685-7

LEGISLATION & JURISPRUDENCE

European parliament tackles biotechnology [news] Watson R. **BMJ** 1996 Oct 19;313(7063):964

FDA regulatory reform. Beatrice M. **Curr Opin Biotechnol** 1997 Jun;8(3):370-8 (22 ref.)

Regulatory concerns in the development of biologic-biomaterial combinations.United States Food and Drug Administration. Chapekar MS. **J Biomed Mater Res** 1996 Fall;33(3):199-203

Intellectual property law in biotechnology. Okada-Takagi M. **Med Law** 1997;16(1):9-16

The FDA: a dromedary tale [editorial] **Nat Biotechnol** 1997 Jan;15(1):1

EuropaBio's regulatory niche [editorial] **Nat Biotechnol** 1997 Aug;15(8):693

Combining legal and business strategies to develop combinatorial chemistry businesses. Abraham D. **Nat Biotechnol** 1997 Jul;15(7):679-82

Patenting DNA: just when you thought it was safe. Chahine KG. **Nat Biotechnol** 1997 Jun;15(6):586-8

Going beyond the native: protecting DNA and protein patents. Chahine KG. **Nat Biotechnol** 1997 Feb;15(2):183-6 (11 ref.)

Europe and FDA agree to limited inspections. Fox JL. **Nat Biotechnol** 1997 Aug;15(8):714-5

EPA issues, USDA amends respective biotech rules [news] Fox JL. **Nat Biotechnol** 1997 Jun;15(6):503

Insulin patent dispute revisits old biotechnology battleground [news] Fox JL. **Nat Biotechnol** 1997 Apr;15(4):307

Conflicts brewing as phage display gets complex [news] Glaser V. **Nat Biotechnol** 1997 Jun;15(6):506

"Ganske" threatens biotechnology patents worldwide [news] Glaser V. **Nat Biotechnol** 1997 Feb;15(2):121

Approval times for supplemental indications for recombinant proteins. Gosse ME, et al. **Nat Biotechnol** 1997 Feb; 15(2):130-4

The biosafety protocol slouches toward Montreal. Hoyle R. **Nat Biotechnol** 1997 Aug;15(8):694

Commissioner Kessler's agbio legacy. Hoyle R. **Nat Biotechnol** 1997 Jan;15(1):2

Bill mandates patent extension if PTO dallies [news] Kling J. **Nat Biotechnol** 1997 Apr;15(4):312

Appeal court grants Genentech's growth market to Novo Nordisk [news] Kling J. **Nat Biotechnol** 1997 May;15(5):403

Genomics companies welcome US PTO initiative on DNA

patents [news] Marshall A. **Nat Biotechnol** 1997 Feb; 15(2):121–2
The EPA's war on bioremediation. Miller H. **Nat Biotechnol** 1997 Jun;15(6):486
The end of big government? Miller HI. **Nat Biotechnol** 1997 Feb;15(2):111
Beyond the letter of the law: the US Federal Circuit interprets section 271(g)(1) [published erratum appears in Nat Biotechnol 1997 Apr;15(4):299] Tsao R, et al. **Nat Biotechnol** 1997 Jan;15(1):86–7
Faster patents and longer lives for biotechnology products [news] Steinberg D. **Nat Med** 1997 Jul;3(7):706–7
Progress on patents, but more action is needed [editorial] **Nature** 1997 Jul 24;388(6640):309
Euro-vote lifts block on biotech patents...but parliament wants closer scrutiny [news] Abbott A. **Nature** 1997 Jul 24;388(6640):314–5
Accord could lift block on European biotech patents [news] Abbott A. **Nature** 1997 Jun 26;387(6636):835
Truce likely in battle over 'DNA-chip' patent rights [news] Butler D. **Nature** 1997 May 15;387(6630):221
Patent threat to research [letter] [see comments] Dalton H, et al. **Nature** 1997 Feb 20;385(6618):672. Comment in: Nature 1997 Apr 17;386(6626):641.
Company accused over lab data 'theft' [news] Dalton R. **Nature** 1997 May 29;387(6632):444
Patents and royalties [letter; comment] Helling RB. **Nature** 1997 Jun 5;387(6633):546. Comment on: Nature 1997 May 1;387(6628):13–4.
Harmonizing European patent practice [letter; comment] [see comments] Kent A, et al. **Nature** 1997 Apr 17;386(6626):641. Comment on: Nature 1997 Feb 20;385(6618):672. Comment in: Nature 1997 Jun 12;387(6634):649.
Settlement deprives peer review of its day in court [news] Macilwain C. **Nature** 1996 Nov 7;384(6604):4
Special considerations concerning regulatory requirements and drug development for peptides and biotech products in the EU. Braun A, et al. **Pharm Acta Helv** 1996 Dec; 71(6):447–58 (22 ref.)
Biologists mobilize against anti-genetics referendum [news] Koenig R. **Science** 1997 Jan 31;275(5300):607–8
Battle ends in $21 million settlement [news] Marshall E. **Science** 1996 Nov 8;274(5289):911
European Parliament backs new biopatent guidelines [news] Williams N. **Science** 1997 Jul 25;277(5325):472
Biotech patents: the world is your oyster––or mouse––or (you name it). Alix JE. **Technol Health Care** 1996 Sep;4(3):255–8
Exploiting transgenic technology: a commercial development conundrum [letter] Yarus S. **Transgenic Res** 1996 Mar; 5(2):145–6

METHODS

Manual manufacturing of oligonucleotide, DNA, and protein microchips. Guschin D, et al. **Anal Biochem** 1997 Aug 1; 250(2):203–11
Genetically engineered synthesis of natural products: from alkaloids to corrins. Roessner CA, et al. **Annu Rev Microbiol** 1996;50:467–90 (67 ref.)
Perfluorochemicals and cell biotechnology. Lowe KC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):261–74 (47 ref.)
Biotechnology at low Reynolds numbers. Brody JP, et al. **Biophys J** 1996 Dec;71(6):3430–41
Engineered cell surfaces: fertile ground for molecular landscaping. Mahal LK, et al. **Chem Biol** 1997 Jun; 4(6):415–22 (59 ref.)
Variety is the spice of life. Affymax N.V. Wells WA. **Chem Biol** 1997 Jan;4(1):79–80
Large-scale mammalian cell culture. Hu WS, et al. **Curr Opin Biotechnol** 1997 Apr;8(2):148–53 (52 ref.)
Introduction to the issues: assays for screening contamination. Hewlett IK. **Dev Biol Stand** 1996;88:33–5
Strategy for adventitious agent assays. Robertson JS. **Dev Biol Stand** 1996;88:37–40 (3 ref.)
Applications of S-layers. Sleytr UB, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):151–75 (96 ref.)
Biotechnological advances in goat reproduction. Amoah EA, et al. **J Anim Sci** 1997 Feb;75(2):578–85 (74 ref.)
Protein liquid chromatographic analysis in biotechnology. Janis LJ, et al. **Methods Enzymol** 1996;271:86–113 (42 ref.)
Strategies for achieving high-level expression of genes in Escherichia coli. Makrides SC. **Microbiol Rev** 1996 Sep; 60(3):512–38 (623 ref.)
Discovery of enzyme inhibitors through combinatorial chemistry. Dolle RE. **Mol Divers** 1997 Apr;2(4):223–36 (32 ref.)
"Bottom-up" bioremediation [editorial; comment] **Nat Biotechnol** 1997 May;15(5):393. Comment on: Nat Biotechnol 1997 May;15(5):436–8.
Whitehead consortium to develop new genome tools [news] Brower V. **Nat Biotechnol** 1997 Jun;15(6):502–3
Metabolic engineering and human disease. Yarmush ML, et al. **Nat Biotechnol** 1997 Jun;15(6):525–8 (32 ref.)
Covalent attachment of DNA oligonucleotides to glass. Cohen G, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):911–2
The rational design of allosteric interactions in a monomeric protein and its applications to the construction of biosensors. Marvin JS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4366–71
Rapid determination of single base mismatch mutations in DNA hybrids by direct electric field control. Sosnowski RG, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1119–23
[Significance of biotechnology in reproductive biology and veterinary medicine] Glatzel PS. **Berl Munch Tierarztl Wochenschr** 1997 May;110(5):166–70 (14 ref.) (Eng. Abstr.) **(Ger)**
[The use of electro-optic method for control of biological preparations] Voloshin AG, et al. **Prikl Biokhim Mikrobiol** 1996 Nov-Dec;32(6):669–70 (Eng. Abstr.) **(Rus)**
[On the out-of-town meeting of the Department of Biomedical Sciences, Russian Academy of Medical Sciences] Rybakova MN. **Vestn Ross Akad Med Nauk** 1996; (9):49–51 **(Rus)**
[Development of biomedical biotechnology. Origins of biotechnology] Barrera-Saldaña HA. **Gac Med Mex** 1995 Jul-Aug;131(4):417–22 **(Spa)**
[Development of biotechnology in genetics] Carnevale A. **Gac Med Mex** 1995 Jul-Aug;131(4):437–42 **(Spa)**
[Development of biomedical biotechnology in microbiology] Cravioto A, et al. **Gac Med Mex** 1995 Jul-Aug;131(4):433–7 **(Spa)**
[Impact of biotechnology on immunology] Palacios-Boix A. **Gac Med Mex** 1995 Jul-Aug;131(4):442–9 **(Spa)**
[Development of biomedical biotechnology in parasitology. Molecular diagnosis, new generation vaccines, and perspectives] Said-Fernández S, et al. **Gac Med Mex** 1995 Jul-Aug;131(4):423–33 **(Spa)**

ORGANIZATION & ADMINISTRATION

For Germany, better late than never in biotech race [news] Dickman S. **Ann Oncol** 1997 Jan;8(1):1–2
Investing in risk management. Fiscus PW. **Nat Biotechnol** 1997 Jan;15(1):88–9
India: 50 years after independence. Miller DD, et al. **Nat Biotechnol** 1997 Aug;15(8):727–9
Australia: ready for business. Woodrow GC, et al. **Nat Biotechnol** 1997 Aug;15(8):731–2
Events at Jena institute [letter; comment] Diekmann S. **Nature** 1997 Jun 12;387(6634):648–9. Comment on: Nature 1997 Feb 27;385(6619):761.
Transatlantic merger creates potent hybrid in bioscience research [news] Ward M. **Nature** 1996 Nov 28; 384(6607):299
Genomics's wheelers and dealers [news] **Science** 1997 Feb 7;275(5301):774–5
Key player: Daniel Cohen. ...and a recent recruit [news] Butler M. **Science** 1997 Feb 7;275(5301):773
Key player: Kevin Kinsella. The industry's top showman... [news] Cohen J. **Science** 1997 Feb 7;275(5301):773

STANDARDS

Biotechnology and food safety. Joint FAO/WHO Consultation. United Nations. **FAO Food Nutr Pap** 1996; 61:1–27
ICH-4 sets course for global harmony [news] Davidson S. **Nat Biotechnol** 1997 Aug;15(8):711–2
Chiral-based therapeutics. Persidis A. **Nat Biotechnol** 1997 Jun;15(6):594–5
Special considerations concerning regulatory requirements and drug development for peptides and biotech products in the EU. Braun A, et al. **Pharm Acta Helv** 1996 Dec; 71(6):447–58 (22 ref.)
[Health risks in connection with fungi: a contribution to the assessment of fungi in the risk potential of safety provisions] Meinhof W, et al. **Mycoses** 1996;39 Suppl 1:48–50 (Eng. Abstr.) **(Ger)**

TRENDS

Recent and future developments in modified hemoglobin and microencapsulated hemoglobin as red blood cell substitutes. Chang TM. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar; 25(1–2):1–24 (86 ref.)
The future of biotechnology in Europe. Hüls C, et al. **Arzneimittelforschung** 1997 Feb;47(2):233–6
Modern pharmaceutical biotechnology. Situation worldwide and in Germany 1995. Schlumberger HD, et al. **Arzneimittelforschung** 1997 Jan;47(1):106–10 (7 ref.)
Impact of Cancer Biotechnology on Diagnostic and Prognostic Indicators in Predictive Oncology and Therapy. Nice, France, October 26–28, 1996. Abstracts. **Cancer Detect Prev** 1996;20(5):391–555
The role of fundamental research and biotechnology in finding solutions to the global problem of antibiotic resistance. Hancock RE. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S148–50
Biotechnological developments in Turkey. Ozcengiz G. **Crit Rev Biotechnol** 1996;16(1):53–94 (323 ref.)
Securing biotechnological resources---the place of the resource centre. Doyle A, et al. **Dis Markers** 1997 Apr; 13(2):71–6 (0 ref.)
Diagnosis and classification of the acute leukemias: recent advances and controversial issues. Taylor CG, et al. **Hematopathol Mol Hematol** 1996;10(1–2):1–38 (216 ref.)
Future pathways for combinatorial chemistry. Brown D. **Mol Divers** 1997 Apr;2(4):217–22 (13 ref.)
Molecular medicine's applications to the developing world: enlightened self interest. Singh U, et al. **Mol Med Today** 1997 Jun;3(6):234–5
Chickens, cows, bulls, and bears [editorial] **Nat Biotechnol** 1997 Jul;15(7):597
Agriculture is biotechnology's future in Europe. Burke JF, et al. **Nat Biotechnol** 1997 Aug;15(8):695–6
The case for commercial biotechnology in sub-Saharan Africa. Gbewonyo K. **Nat Biotechnol** 1997 Apr;15(4):325–7
Biotech unruffled by setbacks [news] Glaser V. **Nat Biotechnol** 1997 Jul;15(7):610–1
Finding a vocabulary for the extrascientific significance of technology. Golub ES. **Nat Biotechnol** 1997 May;15(5):394
The carbohydrate-based drug industry. Persidis A. **Nat Biotechnol** 1997 May;15(5):479–80
Star scientists and institutional transformation: patterns of invention and innovation in the formation of the biotechnology industry. Zucker LG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12709–16
Recombinant DNA technology: a 20-year occupational health retrospective. Cohen R, et al. **Rev Environ Health** 1996 Jul-Sep;11(3):149–65 (58 ref.)
Transgenic plants: environmentally safe factories of the future. Palmgren G. **Trends Genet** 1997 Sep;13(9):348
Pharmacology and biotechnology: a career in clinical development. Ney UM. **Trends Pharmacol Sci** 1996 Feb; 17(2):62–3
[Experiences in the changes of biotechnology in veterinary practice] Görlach A. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep;103(8–9):312–5 (11 ref.) (Eng. Abstr.) **(Ger)**

BIOTIN

Preparation of biotinylated, affinity-purified antibodies for enzyme-linked immunoassays using blotting membrane as an antigen support [published erratum appears in Anal Biochem 1997 Mar 15;246(2):271] Rucklidge GJ, et al. **Anal Biochem** 1996 Dec 1;243(1):158–64
Construction of biotinylated firefly luciferases using biotin acceptor peptides. Tatsumi H, et al. **Anal Biochem** 1996 Dec 1;243(1):176–80
Fourier-transform infrared spectroscopic studies on avidin secondary structure and complexation with biotin and biotin-lipid assemblies. Swamy MJ, et al. **Biophys J** 1996 Aug;71(2):840–7
A novel site-targeted ultrasonic contrast agent with broad biomedical application [published erratum appears in Circulation 1997 May 20;95(10):2458] Lanza GM, et al. **Circulation** 1996 Dec 15;94(12):3334–40
Colorimetric ELISA measurement of specific mRNA on immobilized-oligonucleotide-coated microtiter plates by reverse transcription with biotinylated mononucleotides. Tominaga K, et al. **Clin Chem** 1996 Nov;42(11):1750–7
A non-radioactive DNA sequencing method using biotinylated dideoxynucleoside triphosphates and delta Tth DNA polymerase. Ikeda K, et al. **DNA Res** 1995 Oct 31; 2(5):225–7
Clustering of mutations in the biotin-binding region of holocarboxylase synthetase in biotin-responsive multiple carboxylase deficiency. Dupuis L, et al. **Hum Mol Genet** 1996 Jul;5(7):1011–6
Identification of protein phosphatase-1-binding proteins by microcystin-biotin affinity chromatography. Campos M, et al. **J Biol Chem** 1996 Nov 8;271(45):28478–84
A non-radioactive method for identifying enzyme-amplified products of the reticuloendotheliosis proviral env and LTR genes using psoralen-biotin labelled probes. Davidson I, et al. **J Virol Methods** 1996 May;59(1–2):113–9
Detection and variant identification of HHV-6 by a non-radioactive hybridization microplate assay for amplimers detection. Gautheret A, et al. **J Virol Methods** 1996 Apr 26;58(1–2):33–40
Determinations of biotin in biological fluids. Mock DM. **Methods Enzymol** 1997;279:265–75 (6 ref.)
Enzymatic fluorescence and biotin labeling of primers for PCR sequencing. Igloi GL. **Methods Mol Biol** 1996;65:23–8
Hybridization of biotinylated oligo(dT) for eukaryotic mRNA quantitation. Stolz LE, et al. **Mol Biotechnol** 1996 Dec;6(3):225–30

ADMINISTRATION & DOSAGE

A high biotin diet improves the impaired glucose tolerance of long-term spontaneously hyperglycemic rats with non-insulin-dependent diabetes mellitus. Zhang H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Dec;42(6):517–26
Biotin administration improves the impaired glucose tolerance of streptozotocin-induced diabetic Wistar rats. Zhang H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Jun; 43(3):271–80
Oral glucose tolerance test after high-dose i.v. biotin administration in normoglucemic hemodialysis patients. Koutsikos D, et al. **Ren Fail** 1996 Jan;18(1):131–7

ANALOGS & DERIVATIVES

Identification of biotin sulfone, bisnorbiotin methyl ketone, and tetranorbiotin-l-sulfoxide in human urine. Zempleni J, et al. **Am J Clin Nutr** 1997 Feb;65(2):508–11
Urinary biotin analogs increase in humans during chronic supplementation: the analogs are biotin metabolites. Mock DM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E83–5
The visualization of peroxisomal proteins containing a C-terminal targeting sequence on western blot by using the biotinylated PTS1-receptor [published erratum appears in Anal Biochem 1997 Mar 15;246(2):270] Fransen M, et al. **Anal Biochem** 1996 Nov 1;242(1):26–30

Synthesis and use of a novel biotinylated probe for the chemiluminescent detection of proteins that bind 15-hydroxyeicosatetraenoic acid. Kang LT, et al. **Anal Biochem** 1997 Jul 15;250(1):119-22

Immobilized nitro-avidin and nitro-streptavidin as reusable affinity matrices for application in avidin-biotin technology. Morag E, et al. **Anal Biochem** 1996 Dec 15; 243(2):257-63

Generation of biotin/avidin/enzyme nanostructures with maskless photolithography. Dontha N, et al. **Anal Chem** 1997 Jul 15;69(14):2619-25

Isolation and chemistry of the mixed anhydride intermediate in the reaction catalyzed by dethiobiotin synthetase. Gibson KJ. **Biochemistry** 1997 Jul 15;36(28):8474-8

Spin-label studies on the anchoring and lipid-protein interactions of avidin with N-biotinylphosphatidylethanolamines in lipid bilayer membranes. Swamy MJ, et al. **Biochemistry** 1997 Jun 17; 36(24):7403-7

Synthesis and preliminary biological evaluation of (3-iodobenzoyl)norbiotinamide and ((5-iodo-3-pyridinyl)carbonyl)norbiotinamide: two radioiodinated biotin conjugates with improved stability. Foulon CF, et al. **Bioconjug Chem** 1997 Mar-Apr; 8(2):179-86

Protein patterning with a photoactivatable derivative of biotin. Hengsakul M, et al. **Bioconjug Chem** 1996 Mar-Apr; 7(2):249-54

Synthesis of cobalamin-biotin conjugates that vary in the position of cobalamin coupling. Evaluation of cobalamin derivative binding to transcobalamin II. Pathare PM, et al. **Bioconjug Chem** 1996 Mar-Apr;7(2):217-32

Synthesis of norbiotinamine and its derivatives. Szalecki W. **Bioconjug Chem** 1996 Mar-Apr;7(2):271-3

Fourier-transform infrared spectroscopic studies on avidin secondary structure and complexation with biotin and biotin-lipid assemblies. Swamy MJ, et al. **Biophys J** 1996 Aug;71(2):840-7

Transneuronal transport of intracellularly injected biotinamide in primary afferent axons. Luo P, et al. **Brain Res Bull** 1996;39(6):323-34

Synthesis and characterization of a carbene-generating biotinylated N-acetylglucosamine for photoaffinity labeling of beta-(1-->4)-galactosyltransferase. Hatanka Y, et al. **Carbohydr Res** 1996 Nov 20;294:95-108

Alterations of neuronal fibers after epileptic activity induced by pentylenetetrazole: fine structure investigated by calcium cytochemistry and neurobiotin labeling (buccal ganglia, Helix pomatia). Wiemann M, et al. **Cell Tissue Res** 1996 Oct;286(1):43-53

Limitation of enzyme-conjugated streptavidin-biotin system in the detection of eukaryotic proteins by immunoblot analysis. Kin SH, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):57-61

Serum concentrations of bisnorbiotin and biotin sulfoxide increase during both acute and chronic biotin supplementation. Mock DM, et al. **J Lab Clin Med** 1997 Mar;129(3):384-8

Intraaxonal injection of neurobiotin reveals the long-ranging projections of A beta-hair follicle afferent fibers to the cat dorsal horn. Wilson P, et al. **J Neurophysiol** 1996 Jul; 76(1):242-54

An efficient method that reveals both the dendrites and the soma mosaics of retinal ganglion cells. Zhan XJ, et al. **J Neurosci Methods** 1997 Mar;72(1):109-16

Successful determination of platelet lifespan in C3H mice by in vivo biotinylation. Manning KL, et al. **Lab Anim Sci** 1996 Oct;46(5):545-8

Biotin derivatives of folate compounds: synthesis and utilization for visualization and affinity purification of folate transport proteins. Fan J, et al. **Methods Enzymol** 1997; 281:97-105

Determination of biotinidase activity with biotinyl-6-aminoquinoline as substrate. Hayakawa K, et al. **Methods Enzymol** 1997;279:435-42 (24 ref.)

Biotinyl-5'-adenylate synthesis catalyzed by Escherichia coli repressor of biotin biosynthesis. Xu Y, et al. **Methods Enzymol** 1997;279:405-21 (25 ref.)

Use of biotinylated NAD to label and purify ADP-ribosylated proteins. Zhang J. **Methods Enzymol** 1997;280:255-65

Preparation and biological evaluation of an astatine-211 labeled biotin conjugate: biotinyl-3-[211 At]astatoanilide. Foulon CF, et al. **Nucl Med Biol** 1997 Feb;24(2):135-43

Biodistribution in tumour-bearing mice of two 90Y-labelled biotins using three-step tumour targeting. Chinol M, et al. **Nucl Med Commun** 1997 Feb;18(2):176-82

New biotinylating reagent utilizing carbodiimide function. Masuda G, et al. **Nucleic Acids Symp Ser** 1995;(34):69-70

Crystallographic analysis of the pH-dependent binding of iminobiotin by streptavidin. Athappilly FK, et al. **Protein Sci** 1997 Jun;6(6):1338-42

ANALYSIS

Comparative analysis of biotin intranuclear inclusions of gestational endometrium using the APAAP, ABC and the PAP immunodetection systems. Cooper K, et al. **J Clin Pathol** 1997 Feb;50(2):153-6

The use of peroxidase-mediated deposition of biotin-tyramide in combination with time-resolved fluorescence imaging of europium chelate label in immunohistochemistry and in situ hybridization. de Haas RR, et al. **J Histochem Cytochem** 1996 Oct;44(10):1091-9

Anti-biotin antibodies offer superior organelle-specific labeling of mitochondria over avidin or streptavidin. Hollinshead M, et al. **J Histochem Cytochem** 1997 Aug; 45(8):1053-7

Determination of biotinidase activity with biotinyl-6-aminoquinoline as substrate. Hayakawa K, et al. **Methods Enzymol** 1997;279:435-42 (24 ref.)

Fluorophore-linked assays for high-performance liquid chromatography postcolumn reaction detection of biotin and biocytin. Hentz NG, et al. **Methods Enzymol** 1997; 279:275-86 (11 ref.)

Competitive enzymatic assay of biotin. Huang EZ, et al. **Methods Enzymol** 1997;279:304-8 (8 ref.)

Competitive agglutination assay of biotin. Huang EZ. **Methods Enzymol** 1997;279:308-20 (19 ref.)

Bioluminescence competitive binding assays for biotin based on photoprotein aequorin. Lizano S, et al. **Methods Enzymol** 1997;279:296-303 (9 ref.)

High-performance liquid chromatographic determination of biotin in biological materials after crown ether-catalyzed fluorescence derivatization with panacyl bromide. Rehner GI, et al. **Methods Enzymol** 1997;279:286-95 (8 ref.)

Competitive enzyme-linked immunosorbent assay for biotin. Shiuan D, et al. **Methods Enzymol** 1997;279:321-6 (9 ref.)

Cytoplasmic biotin-like activity interferes with immunohistochemical analysis of thyroid lesions: a comparison of antigen retrieval methods. Kashima K, et al. **Mod Pathol** 1997 May;10(5):515-9

Free and bound biotin molecules in helminths: a source of artifacts for avidin biotin-based immunoassays. Romarís F, et al. **Parasitol Res** 1996;82(7):617-22

BIOSYNTHESIS

Scintillation proximity assay for human DNA topoisomerase I using recombinant biotinyl-fusion protein produced in baculovirus-infected insect cells. Lerner CG, et al. **Anal Biochem** 1996 Sep 5;240(2):185-96

Biotin synthase, a new member of the family of enzymes which uses S-adenosylmethionine as a source of deoxyadenosyl radical. Guianvarc'h D, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):402-6

Biotin synthesis in higher plants. Baldet P, et al. **Methods Enzymol** 1997;279:327-39 (23 ref.)

Escherichia coli repressor of biotin biosynthesis. Beckett D, et al. **Methods Enzymol** 1997;279:362-76 (27 ref.)

Analysis of biotin biosynthesis pathway in coryneform bacteria: Brevibacterium flavum. Hatakeyama K, et al. **Methods Enzymol** 1997;279:339-48 (45 ref.)

Biotinyl-5'-adenylate synthesis catalyzed by Escherichia coli repressor of biotin biosynthesis. Xu Y, et al. **Methods Enzymol** 1997;279:405-21 (25 ref.)

Complete sequence and organization of the Serratia marcescens biotin operon. Sakurai N, et al. **Microbiology** 1996 Nov;142 (Pt 11):3295-303

Characterization of the cDNA and gene coding for the biotin synthase of Arabidopsis thaliana. Weaver LM, et al. **Plant Physiol** 1996 Mar;110(3):1021-8

BLOOD

Indirect enzyme-linked method for determining biotin in human serum. Nyalala JO, et al. **J Immunoassay** 1997 Feb; 18(1):1-19

Serum concentrations of bisnorbiotin and biotin sulfoxide increase during both acute and chronic biotin supplementation. Mock DM, et al. **J Lab Clin Med** 1997 Mar;129(3):384-8

Biotin status assessed longitudinally in pregnant women. Mock DM, et al. **J Nutr** 1997 May;127(5):710-6

[A quantitative of serum biotin with microplate-assay using affinity streptavidin] Hashimoto N, et al. **Rinsho Byori** 1996 Oct;44(10):970-6 (Eng. Abstr.) **(Jpn)**

CHEMICAL SYNTHESIS

Biotin reagents for antibody pretargeting. Synthesis, radioiodination, and in vitro evaluation of water soluble, biotinidase resistant biotin derivatives. Wilbur DS, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):572-84

Synthesis and mass spectrometric characterization of digoxigenin and biotin labeled ganglioside GM1 and their uptake by and metabolism in cultured cells. Albrecht B, et al. **Chem Phys Lipids** 1997 Mar 28;86(1):37-50

CHEMISTRY

A method for biotin labeling of biologically active oligogalacturonides using a chemically stable hydrazide linkage. Ridley BL, et al. **Anal Biochem** 1997 Jun 15; 249(1):10-9

Coupling of MALDI-TOF mass analysis to the separation of biotinylated peptides by magnetic streptavidin beads. Girault S, et al. **Anal Chem** 1996 Jul 1;68(13):2122-6

Combining avidin-biotin chemistry with matrix-assisted laser desorption/ionization mass spectrometry. Schriemer DC, et al. **Anal Chem** 1996 Oct 1;68(19):3382-7

Biotin-fluorophore conjugates with poly(ethylene glycol) spacers retain intense fluorescence after binding to avidin and streptavidin. Gruber HJ, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):552-9

Basic studies on heterobifunctional biotin-PEG conjugates with a 3-(4-pyridyldithio)propionyl marker on the second terminus. Kaiser K, et al. **Bioconjug Chem** 1997 Jul-Aug; 8(4):545-51

Biotin-pyrene conjugates with poly(ethylene glycol) spacers are convenient fluorescent probes for avidin and streptavidin. Marek M, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):560-6

Determination of the extent of protein biotinylation by fluorescence binding assay. Rao SV, et al. **Bioconjug Chem** 1997 Jan-Feb;8(1):94-8

Nonradioactive method for quantitation of PCR products without hybridization with a specific probe. Atamas SP, et al. **Biotechniques** 1997 Jan;22(1):20-2

Synthesis of alpha- and beta-biotinylated T-antigen. Bay S, et al. **Carbohydr Res** 1997 Mar 5;298(3):153-61

Characterization of biotinylated liposomes sensitive to temperature and pH: new tools for anti-cancer drug delivery. Ferraretto A, et al. **Chem Phys Lipids** 1996 Aug 19;82(2):133-9

Culture of malaria parasites in two different red blood cell populations using biotin and flow cytometry. Pattanapanyasat K, et al. **Cytometry** 1996 Nov 1; 25(3):287-94

High efficiency selection of full-length cDNA by improved biotinylated cap trapper. Carninci P, et al. **DNA Res** 1997 Feb 28;4(1):61-6

Biotinylated hyaluronan: a versatile and highly sensitive probe capable of detecting nanogram levels of hyaluronan binding proteins (hyaladherins) on electroblots by a novel affinity detection procedure. Melrose J, et al. **Electrophoresis** 1996 Jan;17(1):205-12

Biotinylated trypsin and its application as a sensitive, versatile probe for the detection and characterisation of an ovine chondrocyte serine proteinase inhibitor using Western blotting. Rodgers KJ, et al. **Electrophoresis** 1996 Jan; 17(1):213-8

Interaction of biotin with streptavidin. Thermostability and conformational changes upon binding. González M, et al. **J Biol Chem** 1997 Apr 25;272(17):11288-94

Biotin and digoxigenin as labels for light and electron microscopy in situ hybridization probes: where do we stand? Chevalier J, et al. **J Histochem Cytochem** 1997 Apr; 45(4):481-91 (72 ref.)

Site-specific photobiotinylation of immunoglobulins, fragments and light chain dimers. Pavlinkova G, et al. **J Immunol Methods** 1997 Feb 14;201(1):77-88

Preferential labeling of alpha-amino N-terminal groups in peptides by biotin: application to the detection of specific anti-peptide antibodies by enzyme immunoassays. Sélo I, et al. **J Immunol Methods** 1996 Dec 15;199(2):127-38

A method to attach lectins to the surface of spermine alginate microcapsules based on the avidin biotin interaction. Sultzbaugh KJ, et al. **J Microencapsul** 1996 Jul-Aug; 13(4):363-76

Application of reversible biotinylated label for directed immobilization of synthetic peptides and proteins: isolation of ligates from crude cell lysates. Ball HL, et al. **J Pept Sci** 1997 Jul-Aug;3(4):252-60

Photo-reversible binding of thrombin to avidin by means of a photolabile inhibitor. Porter NA, et al. **J Photochem Photobiol B** 1997 Mar;38(1):61-9

Competitive binding assays for biotin-binding proteins. White HB 3rd. **Methods Enzymol** 1997;279:464-6 (6 ref.)

Rapid selection of aminoacyl-tRNAs based on biotinylation of alpha-NH2 group of charged amino acids. Pütz J, et al. **Nucleic Acids Res** 1997 May 1;25(9):1862-3

Structural studies of the streptavidin binding loop. Freitag S, et al. **Protein Sci** 1997 Jun;6(6):1157-66

Detection of rabies virus antigen in animals by avidin-biotin dot ELISA. Jayakumar R, et al. **Zentralbl Bakteriol** 1996 Sep;285(1):82-5

DEFICIENCY

Biotin deficiency in an infant fed with amino acid formula and hypoallergenic rice. Higuchi R, et al. **Acta Paediatr** 1996 Jul;85(7):872-4

Increased urinary excretion of 3-hydroxyisovaleric acid and decreased urinary excretion of biotin are sensitive early indicators of decreased biotin status in experimental biotin deficiency. Mock NI, et al. **Am J Clin Nutr** 1997 Apr; 65(4):951-8

DIAGNOSTIC USE

Biotinylation of membrane proteins accessible via the pulmonary circulation in normal and hyperoxic rats. De La Fuente EK, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L461-70

Preclinical evaluation of biotin labeling for red cell survival testing. Hoffmann-Fezer G, et al. **Ann Hematol** 1997 May; 74(5):231-8

Imaging osteomyelitis with streptavidin and indium-111-labeled biotin. Rusckowski M, et al. **J Nucl Med** 1996 Oct;37(10):1655-62

Inflammation-seeking scintigraphy with radiolabeled biotinylated polyclonal IgG followed by the injection of avidin chase. Kobayashi H, et al. **Nucl Med Biol** 1996 Jan; 23(1):29-32

GENETICS

Molecular cloning and nucleotide sequencing of bioF (7-keto-8-amino pelargonic acid synthetase), bioC and

bioD (dethiobiotin synthetase) genes of Erwinia herbicola. Wu CH, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):311–5

Isolation and characterization of the Erwinia herbicola bio operon and the sequences of the bioA and bioB genes. Wu CH, et al. **Gene** 1996 Oct 3;174(2):251–8

Identification and characterization of transcripts from the biotin biosynthetic operon of Bacillus subtilis. Perkins JB, et al. **J Bacteriol** 1996 Nov;178(21):6361–5

IMMUNOLOGY

Preparation and properties of anti-biotin antibodies. Kohen F, et al. **Methods Enzymol** 1997;279:451–63 (19 ref.)

METABOLISM

Effective non-radioactive method of surface labeling Cryptosporidium parvum sporozoites. Nesterenko MV, et al. **Acta Trop** 1997 Apr 30;65(1):53–7

Identification of biotin sulfone, bisnorbiotin methyl ketone, and tetranorbiotin-l-sulfoxide in human urine. Zempleni J, et al. **Am J Clin Nutr** 1997 Feb;65(2):508–11

Urinary biotin analogs increase in humans during chronic supplementation: the analogs are biotin metabolites. Mock DM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E83–5

A monoclonal antibody to avidin dissociates quaternary structure and curtails biotin binding to avidin and streptavidin. Subramanian N, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):281–8

Antigenic similarities among biotin-binding proteins. Subramanian N, et al. **Biochem Mol Biol Int** 1996 Nov; 40(4):663–70

Biotin-fluorophore conjugates with poly(ethylene glycol) spacers retain intense fluorescence after binding to avidin and streptavidin. Gruber HJ, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):552–9

Novel biotinylated plasmid expression vectors retain biological function and can bind streptavidin. Leahy P, et al. **Bioconjug Chem** 1996 Sep–Oct;7(5):545–51

Dynamic strength of molecular adhesion bonds. Evans E, et al. **Biophys J** 1997 Apr;72(4):1541–55

Molecular dynamics study of unbinding of the avidin–biotin complex. Izrailev S, et al. **Biophys J** 1997 Apr; 72(4):1568–81

Synthesis and mass spectrometric characterization of digoxigenin and biotin labeled ganglioside GM1 and their uptake by and metabolism in cultured cells. Albrecht B, et al. **Chem Phys Lipids** 1997 Mar 28;86(1):37–50

Lack of mutations in the biotin-binding region of the pyruvate carboxylase (PC) gene in a family with partial PC deficiency. Higgins JJ, et al. **Clin Biochem** 1997 Feb; 30(1):79–81

Biotinidase and its roles in biotin metabolism. Hymes J, et al. **Clin Chim Acta** 1996 Nov 15;255(1):1–11 (64 ref.)

Prevalence of biotin-binding immunoglobulin in patients with allergic and autoimmune diseases. Nagamine T, et al. **Clin Chim Acta** 1996 Feb 28;245(2):209–17

Protein-biotin interactions. Lindqvist Y, et al. **Curr Opin Struct Biol** 1996 Dec;6(6):798–803 (46 ref.)

Analysis of the biotin-binding protein actinavidin using affinity capillary electrophoresis. Okun VM, et al. **Electrophoresis** 1996 Oct;17(10):1627–32

Conflicting indicators of biotin status from a cross-sectional study of normal pregnancy. Mock DM, et al. **J Am Coll Nutr** 1997 Jun;16(3):252–7

Non-specific serum binding to streptavidin in a biotinylated peptide based enzyme immunoassay. Norton R, et al. **J Immunoassay** 1996 Aug;17(3):195–204

Biotinylation of proteins via amino groups can induce binding to U937 cells, HL-60 cells, monocytes and granulocytes. Storm D, et al. **J Immunol Methods** 1996 Nov 29; 199(1):87–99

Plasma total odd-chain fatty acids in the monitoring of disorders of propionate, methylmalonate and biotin metabolism. Coker M, et al. **J Inherit Metab Dis** 1996; 19(6):743–51

Biliary excretion of biotin and biotin metabolites is quantitatively minor in rats and pigs. Zempleni J, et al. **J Nutr** 1997 Aug;127(8):1496–500

Decreased renal accumulation of biotinylated chimeric monoclonal antibody-neocarzinostatin conjugate after administration of avidin. Otsuji E, et al. **Jpn J Cancer Res** 1997 Feb;88(2):205–12

Biotin uptake in cultured cell lines. Dyer DL, et al. **Methods Enzymol** 1997;279:393–405 (64 ref.)

Application of high affinity binding concept to radiolabel avidin with Tc-99m labeled biotin and the effect of pI on biodistribution. Jeong JM, et al. **Nucl Med Biol** 1994 Oct; 21(7):935–40

Effect of endogenous biotin on the applications of streptavidin and biotin in mice. Rusckowski M, et al. **Nucl Med Biol** 1997 Apr;24(3):263–8

Biotin-rich nuclear inclusions of gestational endometrium, not herpes infection [letter] Chan JK. **Pathol Res Pract** 1995 Dec;191(12):1271

Biotin-rich nuclear inclusions of gestational endometrium, not herpes infection [letter] Matias-Guiu X. **Pathol Res Pract** 1995 Dec;191(12):1271–2

Direct measurement of a tethered ligand-receptor interaction potential. Wong JY, et al. **Science** 1997 Feb 7; 275(5301):820–2

Specific labelling of cell wall proteins by biotinylation. Identification of four covalently linked O-mannosylated proteins of Saccharomyces cerevisiae. Mrsă V, et al. **Yeast** 1997 Sep 30;13(12):1145–54

PHARMACOKINETICS

Tumor cell targeting with antibody-avidin complexes and biotinylated tumor necrosis factor alpha. Moro M, et al. **Cancer Res** 1997 May 15;57(10):1922–8

Bioavailability of biotin. van den Berg H. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S60–1 (19 ref.)

The pig is an appropriate model for human biotin catabolism as judged by the urinary metabolite profile of radioisotope-labeled biotin. Mock DM, et al. **J Nutr** 1997 Feb;127(2):365–9

[The effect of calcium chloride on the distribution, protein binding and catabolism of 14C-biotin in the body of white mice] El'kina VA, et al. **Fiziol Zh** 1996;42(5–6):72–80 (Eng. Abstr.) **(Ukr)**

PHARMACOLOGY

Effect of biotin on glucokinase activity, mRNA expression and insulin release in cultured beta-cells. Borboni P, et al. **Acta Diabetol** 1996 Jul;33(2):154–8

Urinary biotin analogs increase in humans during chronic supplementation: the analogs are biotin metabolites. Mock DM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E83–5

A dtsR gene-disrupted mutant of Brevibacterium lactofermentum requires fatty acids for growth and efficiently produces L-glutamate in the presence of an excess of biotin. Kimura E, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):157–61

Serum concentrations of bisnorbiotin and biotin sulfoxide increase during both acute and chronic biotin supplementation. Mock DM, et al. **J Lab Clin Med** 1997 Mar;129(3):384–8

Lipoic acid reduces the activities of biotin-dependent carboxylases in rat liver. Zempleni J, et al. **J Nutr** 1997 Sep;127(9):1776–81

Biotin deficiency facilitates kindling hyperexcitability in rats. Bregola G, et al. **Neuroreport** 1996 Jul 29;7(11):1745–8

Effect of endogenous biotin on the applications of streptavidin and biotin in mice. Rusckowski M, et al. **Nucl Med Biol** 1997 Apr;24(3):263–8

PHYSIOLOGY

Construction and characterization of a biotin-regulated gene expression system in Escherichia coli. Chang YS, et al. **Appl Biochem Biotechnol** 1997 May;66(2):147–58

THERAPEUTIC USE

Isolated biotin-resistant 3-methylcrotonyl-CoA carboxylase deficiency: long-term outcome in a case with neonatal onset. Lehnert W, et al. **Eur J Pediatr** 1996 Jul; 155(7):568–72

Extracorporeal whole-blood immunoadsorption enhances radioimmunotargeting of iodine-125-labeled BR96-biotin monoclonal antibody. Garkavij M, et al. **J Nucl Med** 1997 Jun;38(6):895–901

Five patients with a biotin-responsive defect in holocarboxylase formation: evaluation of responsiveness to biotin therapy in vivo and comparative biochemical studies in vitro. Suormala T, et al. **Pediatr Res** 1997 May; 41(5):666–73

[Abnormal metabolism of fatty acids and ketone bodies in Duchenne muscular dystrophy, and the effect of biotin on these abnormalities] Honke K, et al. **No To Hattatsu** 1997 Jan;29(1):13–8 (Eng. Abstr.) **(Jpn)**

URINE

Increased urinary excretion of 3-hydroxyisovaleric acid and decreased urinary excretion of biotin are sensitive early indicators of decreased biotin status in experimental biotin deficiency. Mock NI, et al. **Am J Clin Nutr** 1997 Apr; 65(4):951–8

The pig is an appropriate model for human biotin catabolism as judged by the urinary metabolite profile of radioisotope-labeled biotin. Mock DM, et al. **J Nutr** 1997 Feb;127(2):365–9

BIOTRANSFORMATION

Stereoselective biotransformations in synthesis of some pharmaceutical intermediates. Patel RN. **Adv Appl Microbiol** 1997;43:91–140 (212 ref.)

Minimal effect of acute experimental hepatitis induced by lipopolysaccharide/D-galactosamine on biotransformation in rats. Omar H el-D, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1921–4

A study of microbial transformations of trichloroaniline and p-cresol using size-fractionation technique. Hwang HM, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):343–50

Enzymes involved in the bioactivation of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in patas monkey lung and liver microsomes. Smith TJ, et al. **Carcinogenesis** 1997 Aug;18(8):1577–84

Idiosyncratic drug reactions. Metabolic bioactivation as a pathogenic mechanism. Pirmohamed M, et al. **Clin Pharmacokinet** 1996 Sep;31(3):215–30 (152 ref.)

Overview of enzymes of drug metabolism. Meyer UA. **J Pharmacokinet Biopharm** 1996 Oct;24(5):449–59 (21 ref.)

Microbial transformation of mercury species and their importance in the biogeochemical cycle of mercury. Baldi F. **Met Ions Biol Syst** 1997;34:213–57 (187 ref.)

Effect of arecoline on the curcumin-modulated hepatic biotransformation system enzymes in lactating mice and translactationally exposed F1 pups. Singh A, et al. **Nutr Cancer** 1996;25(1):101–10

[Circadian rhythms in hepatic biotransformation of drugs] Bélanger PM. **Pathol Biol (Paris)** 1996 Jun;44(6):564–70 (28 ref.) (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

Modulatory influence of arecoline on the phytic acid-altered hepatic biotransformation system enzymes, sulfhydryl content and lipid peroxidation in a murine system. Singh A, et al. **Cancer Lett** 1997 Jul 15;117(1):1–6

GENETICS

Clinical importance of genetic polymorphism of drug oxidation. Edeki T. **Mt Sinai J Med** 1996 Oct–Nov; 63(5–6):291–300 (134 ref.)

PHYSIOLOGY

Biochemical approach on the conservation of drug molecules during hair fiber formation. Pötsch L, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):25–35 (59 ref.)

Participation of biological membranes in colloidal gold transformation by Micrococcus luteus cells. Levchenko LA, et al. **Membr Cell Biol** 1997;11(1):131–5

BIOTYPING, BACTERIAL see **BACTERIAL TYPING TECHNIQUES**

BIOTYPING, MYCOLOGICAL see **MYCOLOGICAL TYPING TECHNIQUES**

BIPERIDEN

ADVERSE EFFECTS

Belly dystonia induced by levodopa and biperiden in a case of suspected multiple-system atrophy. Shan DE, et al. **Mov Disord** 1996 Jul;11(4):455–7

ANALOGS & DERIVATIVES

Effects of M1-selective antimuscarinics on respiratory chemosensitivity in humans. Akiyama Y, et al. **Respir Physiol** 1996 Feb;103(2):127–35

BLOOD

Biperiden and haloperidol plasma levels and extrapyramidal side effects in schizophrenic patients. Meszaros K, et al. **Neuropsychobiology** 1997;36(2):69–72

PHARMACOLOGY

Changes in EEG order in neuroleptically treated normal volunteers during a voluntary movement task. Diekmann V, et al. **J Neural Transm** 1996;103(8–9):1127–39

Selective M1 muscarinic receptor antagonists disrupt memory consolidation of inhibitory avoidance in rats. Roldán G, et al. **Neurosci Lett** 1997 Jul 18;230(2):93–6

No effect of the anticholinergic drugs trihexyphenidyl and biperiden on the plasma concentrations of bromperidol and its reduced metabolite. Otani K, et al. **Ther Drug Monit** 1997 Apr;19(2):165–8

THERAPEUTIC USE

Amantadine versus biperiden: a double-blind study of treatment efficacy in neuroleptic extrapyramidal movement disorders. König P, et al. **Neuropsychobiology** 1996; 33(2):80–4

Biperiden and haloperidol plasma levels and extrapyramidal side effects in schizophrenic patients. Meszaros K, et al. **Neuropsychobiology** 1997;36(2):69–72

BIPHENYL COMPOUNDS

The clinical pharmacology of losartan in Japanese subjects and patients. Nakashima M, et al. **Blood Press Suppl** 1996; 2:62–6 (13 ref.)

Losartan (Cozaar). Baldinger S. **Conn Med** 1996 May; 60(5):281–4

[Molecular biology of angiotensin II receptor and clinical application of the antagonist] Hiwada K. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):143–8 (15 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Rationale, background, and design of the randomized angiotensin receptor antagonist--angiotensin-converting enzyme inhibitor study (RAAS). Pitt B, et al. **Am J Cardiol** 1996 Nov 15;78(10):1129–31

A case of renin-producing juxtaglomerular tumor: effect of ACE inhibitor or angiotensin II receptor antagonist. Kashiwabara H, et al. **Blood Press** 1997 May;6(3):147–53

Antihypertensive efficacy of the angiotensin II AT1-receptor antagonist losartan: results of a randomized, double-blind, placebo-controlled, parallel-group trial using 24-hour blood pressure monitoring. Ambulatory Blood Pressure Monitoring Study Group. Byyny RL.

Blood Press Suppl 1996;2:71–7

Paraventricular nucleus administration of DuP753 or PD123319 inhibits the effects of angiotensin on water and sodium intake. do–Prado MH, et al.
Braz J Med Biol Res 1996 Nov;29(11):1499–502

Intrathecal neurokinin–1 receptor antagonist reduces isoflurane MAC in rats [see comments] Ishizaki K, et al. **Can J Anaesth** 1997 May;44(5 Pt 1):543–9. Comment in: Can J Anaesth 1997 May;44(5 Pt 1):457–62.

Effects of losartan on vasoconstrictor responses to angiotensin II in the forearm vascular bed of healthy volunteers. Baan J Jr, et al. **Cardiovasc Res** 1996 Nov; 32(5):973–9

Double–blind comparison of losartan, lisinopril, and metolazone in elderly hypertensive patients with previous angiotensin–converting enzyme inhibitor–induced cough. Chan P, et al. **J Clin Pharmacol** 1997 Mar;37(3):253–7

Modeling the route of administration–based enhancement in the brain delivery of EAB 515, studied by microdialysis. Malhotra BK, et al. **J Drug Target** 1997;4(5):277–88

Losartan mediated improvement in insulin action is mainly due to an increase in non–oxidative glucose metabolism and blood flow in insulin–resistant hypertensive patients. Paolisso G, et al. **J Hum Hypertens** 1997 May;11(5):307–12

Effects of chronic losartan treatment on vascular reactivity in normotensive rats. Dowell FJ, et al. **J Hypertens** 1997 May;15(5):523–9

Acute renal excretory actions of losartan in spontaneously hypertensive rats: role of AT2 receptors, prostaglandins, kinins and nitric oxide. Munoz–Garcia R, et al.
J Hypertens 1995 Dec;13(12 Pt 2):1779–84

Lack of a beneficial effect of PD123319, an AT2–angiotensin receptor antagonist, on the course of ablation nephropathy in the rat. Cervenka L, et al. **Kidney Blood Press Res** 1996; 19(5):241–4

Treatment of posttransplant erythrocytosis with losartan. Ducloux D, et al. **Transplant Proc** 1997 Aug;29(5):2407–8

ADVERSE EFFECTS

Possible losartan–induced rash [letter] Haddad AM, et al. **Am J Health Syst Pharm** 1997 Jun 1;54(11):1333–4

Brief report: acute renal failure after losartan treatment in a patient with bilateral renal artery stenosis. Holm EA, et al. **Blood Press** 1996 Nov;5(6):360–2

Marked hepatotoxicity associated with losartan treatment. Nygaard B, et al. **Blood Press** 1996 May;5(3):190–1

Global efficacy and tolerability of losartan, an angiotensin II subtype 1–receptor antagonist, in the treatment of hypertension. Mallion JM, et al. **Blood Press Suppl** 1996; 2:82–6 (14 ref.)

Losartan and reversible psychosis [letter] Ahmad S.
Cardiology 1996 Nov–Dec;87(6):569–70

Losartan–induced bronchospasm. Dicpinigaitis PV, et al.
J Allergy Clin Immunol 1996 Dec;98(6 Pt 1):1128–30

Commentary: do angiotensin II receptor antagonists regress left ventricular hypertrophy? Lip GY.
J Hum Hypertens 1996 Nov;10(11):725–7 (28 ref.)

Reversible acute renal failure induced by losartan in a renal transplant recipient. Ostermann M, et al.
Postgrad Med J 1997 Feb;73(856):105–7

Angioedema associated with angiotensin II receptor antagonist losartan. Sharma PK, et al. **South Med J** 1997 May;90(5):552–3

Acute renal failure after administration of losartan [letter] Lamb RV, et al. **W V Med J** 1996 Sep–Oct;92(5):241

[Cozaar (Losartan, MSD) and depression (letter)] Christensen KB. **Ugeskr Laeger** 1997 Mar 31;159(14):2106 **(Dan)**

[Losartan (Cozaar) and depression] Jensen JB.
Ugeskr Laeger 1997 Mar 31;159(14):2108 **(Dan)**

[News on side effects. 59 reports on losartan. Even cough is reported] **Lakartidningen** 1996 Oct 9;93(41):3601 **(Swe)**

ANALYSIS

Determination of o–phenylphenol, diphenylamine, and propargite pesticide residues in selected fruits and vegetables by gas chromatography/mass spectrometry. Yu L, et al. **J AOAC Int** 1997 May–Jun;80(3):651–6

High–performance liquid chromatographic analysis of (S)–alpha–amino–5–phosphonomethyl[1,1'–biphenyl]–3–propanoic acid (EAB 515) in brain and blood microdialysate (on–line) and in plasma ultrafiltrate of freely moving rats. Malhotra BK, et al.
J Chromatogr B Biomed Appl 1996 Apr 26;679(1–2):167–76

Quantitation of a new potent angiotensin II receptor antagonist, TCV–116, and its metabolites in human serum and urine. Miyabayashi T, et al.
J Chromatogr B Biomed Appl 1996 Feb 23;677(1):123–32

Characterization of conjugated metabolites of a new angiotensin II receptor antagonist, candesartan cilexetil, in rats by liquid chromatography/electrospray tandem mass spectrometry following chemical derivatization. Kondo T, et al. **J Mass Spectrom** 1996 Aug;31(8):873–8

An improved method for the simultaneous determination of losartan and its major metabolite, EXP3174, in human plasma and urine by high–performance liquid chromatography with fluorescence detection. Ritter MA, et al. **J Pharm Biomed Anal** 1997 Apr;15(7):1021–9

Comparison of liquid chromatography, capillary electrophoresis and super–critical fluid chromatography in the determination of Losartan Potassium drug substance in Cozaar tablets. Williams RC, et al.
J Pharm Biomed Anal 1996 Aug;14(11):1539–46

BLOOD

Determination of brequinar in rat plasma by direct deproteinization and reversed–phase high–performance liquid chromatography with ultraviolet absorbance detection. Dasgupta S, et al.
J Chromatogr B Biomed Appl 1995 Nov 3;673(1):107–12

Determination of XR510, a balanced angiotensin II receptor antagonist, in dog and rat plasma by combined liquid–liquid/solid–phase extraction and high–performance liquid chromatography. Emm TA, et al.
J Chromatogr B Biomed Appl 1996 Jan 26;675(2):273–8

CHEMICAL SYNTHESIS

Transposition of the imidazole ring substituents of angiotensin mimetics related to Losartan. Smith JR, et al.
Drug Des Discov 1994 Nov;12(2):113–9

CHEMISTRY

Biphenyl–3–carboxylic acid at 296 and 203 K. Blackburn AC, et al. **Acta Crystallogr C** 1996 Sep 15;52 (Pt 9):2320–3

Identification of the colored guaiacol oxidation product produced by peroxidases. Doerge DR, et al.
Anal Biochem 1997 Jul 15;250(1):10–7

Detection of PCB adducts by the 32P–postlabeling technique. McLean MR, et al. **Chem Res Toxicol** 1996 Jan–Feb; 9(1):165–71

Protection of asparagine and glutamine during N alpha–Bpoc–based solid–phase peptide synthesis. Carey RI, et al. **Int J Pept Protein Res** 1996 Mar;47(3):209–13

Characterization of non–peptide antagonist and peptide agonist binding sites of the NK1 receptor with fluorescent ligands. Turcatti G, et al. **J Biol Chem** 1997 Aug 22; 272(34):21167–75

ECONOMICS

Medical and cost–economy aspects of modern antihypertensive therapy—with special reference to 2 years of clinical experience with losartan. Hansson L.
Blood Press Suppl 1997;1:52–5 (27 ref.)

HISTORY

Historical development of losartan (DuP 753) and angiotensin II receptor subtypes. Wong PC, et al.
Blood Press Suppl 1996;3:11–4 (29 ref.)

METABOLISM

Genetic exchange in soil between introduced chlorobenzoate degraders and indigenous biphenyl degraders. Focht DD, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3910–3

Aerobic biodegradation of biphenyl and polychlorinated biphenyls by Arctic soil microorganisms. Mohn WW, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3378–84

Intramolecular isotope effects for benzylic hydroxylation of isomeric xylenes and 4,4'–dimethylbiphenyl by cytochrome P450: relationship between distance of methyl groups and masking of the intrinsic isotope effect. Iyer KR, et al.
Biochemistry 1997 Jun 10;36(23):7136–43

Non–, mono–, and di–o–chlorobiphenyl concentrations and their toxic equivalents to 2,3,7,8–tetrachlorodibenzo[p]dioxin in Aroclors(R) and digestive glands from American lobster (Homarus americanus) captured in Atlantic Canada. King TL, et al.
Bull Environ Contam Toxicol 1996 Sep;57(3):465–72

Identification of catechol and hydroquinone metabolites of 4–monochlorobiphenyl. McLean MR, et al.
Chem Res Toxicol 1996 Jan–Feb;9(1):158–64

Metabolism of 4–[1–(2–fluoro–4–biphenylyl)ethyl]–2–methylaminothiazole (SM–8849) in rats. Yabuki M, et al.
Eur J Drug Metab Pharmacokinet 1997 Jan–Mar; 22(1):25–33

Identification of nonconserved amino acids in the AT1 receptor which comprise a general binding site for biphenylimidazole antagonists. Nirula V, et al.
FEBS Lett 1996 Oct 7;394(3):361–4

The bphDEF meta–cleavage pathway genes involved in biphenyl/polychlorinated biphenyl degradation are located on a linear plasmid and separated from the initial bphACB genes in Rhodococcus sp. strain RHA1. Masai E, et al.
Gene 1997 Mar 10;187(1):141–9

Characterization of the genes encoding a receptor–like histidine kinase and a cognate response regulator from a biphenyl/polychlorobiphenyl–degrading bacterium, Rhodococcus sp. strain M5. Labbé D, et al. **J Bacteriol** 1997 Apr;179(8):2772–6

Heterologous expression of biphenyl dioxygenase–encoding genes from a gram–positive broad–spectrum polychlorinated biphenyl degrader and characterization of chlorobiphenyl oxidation by the gene products. McKay DB, et al. **J Bacteriol** 1997 Mar;179(6):1924–30

RP4::Mu3A–mediated in vivo cloning and transfer of a chlorobiphenyl catabolic pathway. Springael D, et al.
Microbiology 1996 Nov;142 (Pt 11):3283–93

Organisation of the bph gene cluster of transposon Tn4371, encoding enzymes for the degradation of biphenyl and 4–chlorobiphenyl compounds. Merlin C, et al.
Mol Gen Genet 1997 Jan 27;253(4):499–506

Role of erythropoietin in pathogenesis of post transplant erythrocytosis (PTE) and mechanism of losartan's efficiency [letter; comment] Altun B, et al.
Nephrol Dial Transplant 1997 Mar;12(3):626–7. Comment on: Nephrol Dial Transplant 1996 Aug;11(8):1668.

PHARMACOKINETICS

Absence of a pharmacokinetic interaction between losartan and hydrochlorothiazide. McCrea JB, et al.
J Clin Pharmacol 1995 Dec;35(12):1200–6

Pharmacokinetics and brain distribution of magnolol in the rat after intravenous bolus injection. Tsai TH, et al.
J Pharm Pharmacol 1996 Jan;48(1):57–9

PHARMACOLOGY

Biologic testing of leachable aromatic compounds from denture base materials. Lygre H, et al.
Acta Odontol Scand 1995 Dec;53(6):397–401

Losartan does not influence the blood platelet aggregation in normotensive rats. Chabielska E, et al.
Acta Physiol Hung 1996;84(3):271–2

Effects of chronic treatment with losartan and enalaprilat on [3H]–norepinephrine release from isolated atria of Wistar–Kyoto and spontaneously hypertensive rats. Foucart S, et al. **Am J Hypertens** 1996 Jan;9(1):61–9

Effect of acute and chronic losartan treatment on glucose tolerance and insulin sensitivity in fructose–fed rats. Iyer SN, et al. **Am J Hypertens** 1996 Jul;9(7):662–8

The effects of angiotensin II receptor blockade with losartan on systemic blood pressure and renal and extrarenal prostaglandin synthesis in women with essential hypertension. Smith MC, et al. **Am J Hypertens** 1995 Dec; 8(12 Pt 1):1177–83

Central infusion of the AT1 receptor antagonist losartan inhibits thirst but not sodium appetite in cattle. Blair–West JR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1940–5

Mechanisms in the pressor effects of hepatic portal venous fatty acid infusion. Grekin RJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R324–30

Effect of sympathetic and angiotensin–aldosterone systems on renal salt conservation in the rat. Honrath U, et al.
Am J Physiol 1997 Apr;272(4 Pt 2):F538–44

Intracerebroventricular losartan inhibits postprandial drinking in sheep. Mathai M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1055–9

The subtype 2 angiotensin receptor regulates renal prostaglandin F2 alpha formation in conscious rats. Siragy HM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1103–7

Renal resistance to ANF in salt–depleted rats is independent of sympathetic or ANG–aldosterone systems. Veress AT, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F545–50

Role of brain angiotensin II in thirst and sodium appetite of sheep. Weisinger RS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R187–96

AT1 receptor blockade and the sympathoadrenal response to insulin–induced hypoglycemia in humans. Worck RH, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E415–21

Structural diversity of peroxisome proliferators and their effects on mammalian liver cells in vivo. de la Iglesia F, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:310–27

Angiotensin II receptor antagonists: the prototype losartan. Schaefer KL, et al. **Ann Pharmacother** 1996 Jun; 30(6):625–36 (81 ref.)

General pharmacological properties of the new angiotensin II receptor antagonist (+/–)–1–(cyclohexyloxycarbonyloxy) ethyl 2–ethoxy–1–[[2'–(1H–tetrazol–5–yl) biphenyl–4–yl] methyl]–1 H–benzimidazole–7–carboxylate. Part II: Effect on cardiovascular system and renal functions. Kito G, et al. **Arzneimittelforschung** 1996 Jul;46(7):681–6

The angiotensin–II receptor antagonist, losartan, inhibits LDL lipid peroxidation and atherosclerosis in apolipoprotein E–deficient mice. Keidar S, et al.
Biochem Biophys Res Commun 1997 Jul 30;236(3):622–5

On the mechanism of the losartan–mediated inhibition of phosphatidylcholine biosynthesis in H9c2 cells. Hatch GM, et al. **Biochim Biophys Acta** 1997 Aug 16;1347(2–3):183–90

The potent inhibition of vapiprost, a novel thromboxane A2 receptor antagonist, on the secondary aggregation and ATP release of human platelets. Horie S, et al.
Biol Pharm Bull 1997 Jun;20(6):625–31

Tissue–specific regulation of angiotensin–converting enzyme by angiotensin II and losartan in the rat. Metsärinne KP, et al. **Blood Press** 1996 Nov;5(6):363–70

The diversified pharmacology of angiotensin II–receptor blockade. Timmermans PB, et al. **Blood Press Suppl** 1996; 2:53–61 (112 ref.)

The haemodynamic effects of GR 32191, a thromboxane A2 receptor antagonist, in patients with renal artery stenosis and hypertension. Lyons D, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):271–3

Angiotensin II receptors involved in the enhancement of noradrenergic transmission in the caudal artery of the spontaneously hypertensive rat. Cox SL, et al.
Br J Pharmacol 1996 Nov;119(5):965–75

Effects of an AT1 receptor antagonist, an ACE inhibitor and a calcium channel antagonist on cardiac gene expressions in hypertensive rats. Kim S, et al.
Br J Pharmacol 1996 Jun;118(3):549–56

Interaction of biphenylimidazole and imidazoleacrylic acid nonpeptide antagonists with valine 108 in TM III of the AT1 angiotensin receptor. Nirula V, et al.

Br J Pharmacol 1996 Dec;119(8):1505–7

Effects of captopril, losartan, and nifedipine on cell hypertrophy of cultured vascular smooth muscle from hypertensive Ren-2 transgenic rats. Peiró C, et al. **Br J Pharmacol** 1997 Aug;121(7):1438–44

Involvement of nitric oxide, but not prostaglandins, in the vascular sympathoinhibitory effects of losartan in the pithed spontaneously hypertensive rat. Richer C, et al. **Br J Pharmacol** 1996 Jan;117(2):315–24

Losartan inhibition of angiotensin-related drinking and Fos immunoreactivity in hypertensive and hypotensive contexts. Rowland NE, et al. **Brain Res** 1996 Dec 2; 742(1–2):253–9

Lateral hypothalamic stimulation inhibits dentate granule cell LTP: direct connections. Wayner MJ, et al. **Brain Res Bull** 1997;43(1):5–15

Effect of a non-peptide angiotensin receptor antagonist on water intake caused by centrally administered carbachol in the rat. Reis LC, et al. **Braz J Med Biol Res** 1996 Feb; 29(2):245–7

Reversing effect of dimethyl-4,4'-dimethoxy-5,6,5', 6'-dimethylenedioxybiphenyl-2,2'-dicarboxylate (DDB) on the phenotypes of human hepatocarcinoma cells line. Liu Z, et al. **Cancer Lett** 1996 Nov 12;108(1):67–72

Pharmacodynamic, pharmacokinetic and clinical profile of the first orally active angiotensin II receptor antagonist. Reid JL. **Cardiologia** 1995 Dec;40(12 Suppl 1):187

Pathologic consequences of increased angiotensin II activity. Ferrario CM, et al. **Cardiovasc Drugs Ther** 1996 Nov; 10(5):511–8 (100 ref.)

Opposite effects of angiotensin AT1 and AT2 receptor antagonists on recovery of mechanical function after ischemia-reperfusion in isolated working rat hearts. Ford WR, et al. **Circulation** 1996 Dec 15;94(12):3087–9

Profound and sustained inhibition of platelet aggregation by Fradafiban, a nonpeptide platelet glycoprotein IIb/IIIa antagonist, and its orally active prodrug, Lefradafiban, in men. Müller TH, et al. **Circulation** 1997 Aug 19; 96(4):1130–8

Effect of losartan on right ventricular hypertrophy and cardiac angiotensin I-converting enzyme activity in pulmonary hypertensive rats. Kreutz R, et al. **Clin Exp Hypertens** 1996 Jan;18(1):101–11

Nonpeptide angiotensin II receptor antagonists: in vivo inhibition of [125I-Sar1,Ile8]angiotensin II binding by losartan, EXP597 and L-159,282 in rats. Wong PC, et al. **Clin Exp Hypertens** 1996 Feb;18(2):189–200

Magnolol reduces infarct size and suppresses ventricular arrhythmia in rats subjected to coronary ligation. Hong CY, et al. **Clin Exp Pharmacol Physiol** 1996 Aug; 23(8):660–4

Effects of losartan on the cardiovascular system, renal haemodynamics and function and lung liquid flow in fetal sheep. Stevenson KM, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):125–33

DuP 532, an angiotensin II receptor antagonist: first administration and comparison with losartan. Goldberg MR, et al. **Clin Pharmacol Ther** 1997 Jan;61(1):59–69

Transposition of the imidazole ring substituents of angiotensin mimetics related to Losartan. Smith JR, et al. **Drug Des Discov** 1994 Nov;12(2):113–9

Effects of the novel immunosuppressant brequinar on hepatic UDP-glucuronic acid levels and UDP-glucuronyltransferase activities in the rat. Diamond S, et al. **Drug Metab Dispos** 1996 Mar;24(3):375–6

Losartan potassium: a review of its pharmacology, clinical efficacy and tolerability in the management of hypertension. Goa KL, et al. **Drugs** 1996 May;51(5):820–45 (138 ref.)

AT1 receptors and cell proliferation in rat adrenals: effects of angiotensin infusion, low sodium diet and losartan. McEwan PE, et al. **Endocr Res** 1996 Nov;22(4):369–71

Angiotensin-responsive adrenal glomerulosa cell proteins: characterization by protease mapping, species comparison, and specific angiotensin receptor antagonists. Elliott ME, et al. **Endocrinology** 1997 Jun;138(6):2530–6

Thromboxane A2-receptor blockade improves cerebral protection for deep hypothermic circulatory arrest. Tsui SS, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):228–35

Metabolism of 4-[1-(2-fluoro-4-biphenylyl)ethyl]-2-methylaminothiazole (SM-8849) in rats. Yabuki M, et al. **Eur J Drug Metab Pharmacokinet** 1997 Jan-Mar; 22(1):25–33

Angiotensin II-induced renal responses in anesthetized rabbits: effects of N omega-nitro-L-arginine methyl ester and losartan. Adachi Y, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):165–71

5-HT3 and 5-HT4 receptors and cholinergic and tachykininergic neurotransmission in the guinea-pig proximal colon. Briejer MR, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):173–80

Dopamine D3 receptors are not involved in the induction of c-fos mRNA by neuroleptic drugs: comparison of the dopamine D3 receptor antagonist GR103691 with typical and atypical neuroleptics. Hurley MJ, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):283–93

The competitive NMDA receptor antagonist SDZ 220-581 reverses haloperidol-induced catalepsy in rats. McAllister KH. **Eur J Pharmacol** 1996 Oct 31;314(3):307–11

Receptor subtypes mediating spinal cardiovascular effects of angiotensin II in rat using losartan and PD 123319. Park PD, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):139–45

Nifedipine, losartan and captopril effects on hyperplasia of vascular smooth muscle from Ren-2 transgenic rats. Peiró C, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):257–65

Aerosolized tachykinin antagonists inhibit pentamidine-induce bronchoconstriction in guinea pigs. Jarreau PH, et al. **Fundam Clin Pharmacol** 1996; 10(6):518–23

The effect of angiotensin II receptor antagonists on diethylstilbestrol-induced vascular changes in the rat anterior pituitary gland: a quantitative evaluation. Pawllkowski M, et al. **Histol Histopathol** 1996 Oct; 11(4):909–13

Combined effects of the angiotensin II antagonist candesartan cilexetil (TCV-116) and other classes of antihypertensive drugs in spontaneously hypertensive rats. Wada T, et al. **Hypertens Res** 1996 Dec;19(4):247–54

Hypertension in obese Zucker rats. Role of angiotensin II and adrenergic activity. Alonso-Galicia M, et al. **Hypertension** 1996 Dec;28(6):1047–54

Additive effects of losartan and enalapril on blood pressure and plasma active renin. Azizi M, et al. **Hypertension** 1997 Feb;29(2):634–40

Losartan blocks aldosterone and renal vascular responses to angiotensin II in humans. Gandhi SK, et al. **Hypertension** 1996 Dec;28(6):961–6

Cardiac and vascular effects of long-term losartan treatment in stroke-prone spontaneously hypertensive rats. Gohlke P, et al. **Hypertension** 1996 Sep;28(3):397–402

Brain "ouabain" and angiotensin II in salt-sensitive hypertension in spontaneously hypertensive rats. Huang BS, et al. **Hypertension** 1996 Dec;28(6):1005–12

Effects of renin-angiotensin blockade on sympathetic reactivity and beta-adrenergic pathway in the spontaneously hypertensive rat. K.-Laflamme A, et al. **Hypertension** 1997 Aug;30(2 Pt 1):278–87

Role of substance P in blood pressure regulation in salt-dependent experimental hypertension. Kohlmann O Jr, et al. **Hypertension** 1997 Jan;29(1 Pt 2):506–9

Losartan reduces phenylephrine constrictor response in aortic rings from spontaneously hypertensive rats. Role of nitric oxide and angiotensin II type 2 receptors. Maeso R, et al. **Hypertension** 1996 Dec;28(6):967–72

Angiotensin II blockade does not prevent renal effects of L-NAME in sodium-repleted humans. Montanari A, et al. **Hypertension** 1997 Sep;30(3 Pt 2):557–62

Improvement in baroreflex function by an oral angiotensin receptor antagonist in rats with myocardial infarction. Nishizawa M, et al. **Hypertension** 1997 Jan;29(1 Pt 2):458–63

Enalapril and losartan reduced cardiac mass and improved coronary hemodynamics in SHR. Nunez E, et al. **Hypertension** 1997 Jan;29(1 Pt 2):519–24

Effects of enalapril, losartan, and verapamil on blood pressure and glucose metabolism in the Cohen-Rosenthal diabetic hypertensive rat. Rosenthal T, et al. **Hypertension** 1997 Jun; 29(6):1260–4

Effects of angiotensin II receptor blockade on N-terminal proatrial natriuretic factor plasma levels in chronic heart failure. Klinge R, et al. **J Card Fail** 1997 Jun;3(2):75–81

Effects of losartan on renal function in patients with essential hypertension. Fauvel JP, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):259–63

Effect of AT1 angiotensin-receptor blockade on structure and function of small arteries in SHR. Li JS, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):75–83

Dose-ranging study of the angiotensin II receptor antagonist irbesartan (SR 47436/BMS-186295) on blood pressure and neurohormonal effects in salt-deplete men. McIntyre M, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):101–6

Effect of captopril and losartan on blood pressure and accumulation of LDL and fibrinogen by aortic wall and other tissues in normotensive and hypertensive rats. Medina R, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):125–9

Effects of angiotensin II receptor blockade during exercise: comparison of losartan and saralasin. Symons JD, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):223–31

Use of losartan to examine the role of the cardiac renin-angiotensin system in myocardial dysfunction during ischemia and reperfusion. Werrmann JG, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):177–82

Effects of angiotensin II and its blockers Sar1-Ile8-angiotensin II and DuP 753 on drinking in ducks in relation to properties of subfornical organ neurons. Simon E, et al. **J Comp Physiol [B]** 1996;165(8):607–14

Characterization of the AT1 angiotensin II receptor expressed in guinea pig liver. García-Sáinz JA, et al. **J Endocrinol** 1997 Jul;154(1):133–8

A comparison of the hypotensive and hypoglycaemic actions of an angiotensin converting enzyme inhibitor, an AT1a antagonist and troglitazone. Chen S, et al. **J Hypertens** 1996 Nov;14(11):1325–30

Renal function in one-kidney, one clip sodium-restricted rats: influence of enalapril and losartan. Demeilliers B, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1764–6

Midwall left ventricular performance in salt-loaded Dahl rats: effect of AT1 angiotensin II inhibition. de Simone G, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1808–12

The effect of angiotensin II receptor antagonism with losartan on glucose metabolism and insulin sensitivity. Moan A, et al. **J Hypertens** 1996 Sep;14(9):1093–7

Blockade of the renin-angiotensin system in heart failure in conscious dogs. Murakami M, et al. **J Hypertens** 1995 Dec; 13(12 Pt 1):1405–12

Effects of chronic treatment with losartan on blood pressure, endothelin-like immunoreactivity and nitric oxide in normotensive rats. Sacerdote A, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1670–3

Cardiac collagen remodeling in the cardiomyopathic Syrian hamster and the effect of losartan. Dixon IM, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1837–50

Substance P receptor antagonist inhibits murine IgM expression in developing schistosome granulomas by blocking the terminal differentiation of intragranuloma B cells. Blum A, et al. **J Neuroimmunol** 1996 May; 66(1–2):1–10

Comparative cardiovascular effects of the angiotensin II type 1 receptor antagonists ZD 7155 and losartan in the rat. Junggren IL, et al. **J Pharm Pharmacol** 1996 Aug; 48(8):829–33

Mechanism of action of p-chlorobiphenyl on the inhibition of platelet aggregation. Ko FN, et al. **J Pharm Pharmacol** 1996 Apr;48(4):395–400

Pharmacological and pharmacokinetic evaluation of EXP3312, an orally-active non-peptide angiotensin II-receptor antagonist. Wong YN, et al. **J Pharm Pharmacol** 1996 May;48(5):492–7

HR 720, a novel angiotensin receptor antagonist inhibits the angiotensin II-induced trophic effects, fibronectin release and fibronectin-EIIIA+ expression in rat aortic vascular smooth muscle cells in vitro. Dunn FW, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):447–53

Nonpeptide angiotensin II antagonist losartan inhibits thromboxane A2-induced contractions in canine coronary arteries. Li P, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1065–70

Losartan, a selective inhibitor of subtype AT1 receptors for angiotensin II, inhibits the binding of N-formylmethionyl-leucyl-phenylalanine to neutrophil receptors. Raiden S, et al. **J Pharmacol Exp Ther** 1997 May; 281(2):624–8

Losartan exerts antiarrhythmic activity independent of angiotensin II receptor blockade in simulated ventricular ischemia and reperfusion. Thomas GP, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1090–7

CP-96,345, which inhibits [3H] substance P binding, selectively inhibits the behavioral response to intrathecally administered N-methyl-D-aspartate, but not substance P, in the mouse. Velázquez RA, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1231–7

Regional hemodynamic effects of candesartan cilexetil (TCV-116), an angiotensin II AT1-receptor antagonist, in conscious spontaneously hypertensive rats. Kanagawa R, et al. **Jpn J Pharmacol** 1997 Mar;73(3):185–90

Antihypertensive effect of repeatedly administered YM358, an angiotensin AT1-receptor antagonist, in stroke-prone spontaneously hypertensive rats. Yamaguchi N, et al. **Jpn J Pharmacol** 1997 Jan;73(1):83–91

Angiotensin II-induced pulmonary edema in a rabbit model. Yamamoto T, et al. **Jpn J Pharmacol** 1997 Jan;73(1):33–40

The angiotensin receptor antagonist, irbesartan, reduces renal injury in experimental chronic renal failure. Ziai F, et al. **Kidney Int Suppl** 1996 Dec;57:S132–6

Increased left-ventricular mass after losartan treatment [letter] Cheung B. **Lancet** 1997 Jun 14;349(9067):1743–4

Effect of ramipril and losartan on collagen expression in right and left heart after myocardial infarction. Dixon IM, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):31–45

Renal effects of an angiotensin II antagonist in stroke-prone spontaneously hypertensive rat. Yo Y, et al. **Nephron** 1997; 76(4):466–71

Modulation by both diphenyliodonium and diphenyleneiodonium of [3H]MK-801 binding to rat brain synaptic membranes. Shuto M, et al. **Neurochem Int** 1997 Jul;31(1):73–82

Effect of the non-peptide blocker (+/-) CP 96,345 on the cellular mechanism involved in the response to NK1 receptor stimulation in human skin fibroblasts. Ziche M, et al. **Neuropeptides** 1996 Aug;30(4):345–54

Biphenyl-derivatives of 2-amino-7-phosphono-heptanoic acid, a novel class of potent competitive N-methyl-D-aspartate receptor antagonists—II. Pharmacological characterization in vivo. Urwyler S, et al. **Neuropharmacology** 1996 Jun;35(6):655–69

Protection by diphenyliodonium against glutamate neurotoxicity due to blocking of N-methyl-D-aspartate receptors. Nakamura Y, et al. **Neuroscience** 1997 Jan; 76(2):459–66

Effect of substance P and receptor antagonists on secretion of lingual lipase and amylase from rat von Ebner's gland. Field RB, et al. **Peptides** 1997;18(2):277–85

Losartan influences behavioural effects of angiotensin II in rats. Kułakowska A, et al. **Pharmacol Res** 1996 Sep-Oct; 34(3–4):109–15

The effect of SM-8849 on experimental arthritis in mice. Nagai H, et al. **Pharmacology** 1996 Jun;52(6):377–86

Myocardial protective effect of honokiol: an active component in Magnolia officinalis. Tsai SK, et al. **Planta Med** 1996 Dec;62(6):503–6

Effects of the selective angiotensin II receptor antagonists losartan and PD123177 in animal models of anxiety and memory. Shepherd J, et al. **Psychopharmacology (Berl)** 1996 Aug;126(3):206–18

Effects of intracerebroventricular injections of losartan or PD123319 on arterial pressure and heart rate of sodium

replete and sodium deplete rats. De Luca LA Jr, et al. **Regul Pept** 1996 Oct 8;66(1–2):31–5

The effect of losartan on drinking and NaCl intake in the rat in response to hyperosmotic and hypovolaemic stimuli: effect of route of administration and strain of rat. Findlay AL. **Regul Pept** 1996 Oct 8;66(1–2):95–100

Blockade of central angiotensin II type 1 and type 2 receptors suppresses adrenalectomy–induced NaCl intake in rats. Galaverna O, et al. **Regul Pept** 1996 Oct 8;66(1–2):47–50

Angiotensin II receptor subtype antagonists can both stimulate and inhibit salt appetite in rats. Liénard F, et al. **Regul Pept** 1996 Oct 8;66(1–2):87–94

Centrally administered losartan inhibits the reduction in plasma renin concentration caused by intracerebroventricular hypertonic saline in Na–depleted sheep. McKinley MJ, et al. **Regul Pept** 1996 Oct 8; 66(1–2):37–40

Effects of chronic central administration of losartan on the cardiovascular and hormonal responses to hemorrhage in conscious rats. Yang EK, et al. **Regul Pept** 1996 Dec 3; 67(2):107–13

The effect of Losartan, an angiotensin II antagonist, on cardiac function, mass and morphology in rats after repeated hyperbaric exposures. Stuhr LE, et al. **Scand J Clin Lab Invest** 1997 May;57(3):253–61

The effect of the acute and chronic administration of CP 96,345, a selective neurokinin1 receptor antagonist, on midbrain dopamine neurons in the rat: a single unit, extracellular recording study. Minabe Y, et al. **Synapse** 1996 Jan;22(1):35–45

Losartan decreases hemoglobin in renal transplant recipients. Ducloux D, et al. **Transplant Proc** 1997 Aug;29(5):2402–3

In vitro and in vivo effects of leflunomide, brequinar, and cyclosporine on pyrimidine biosynthesis. Silva HT Jr, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1292–3

Losartan, an angiotensin–II receptor antagonist, reduces hematocrits in kidney transplant recipients with posttransplant erythrocytosis. Klaassen RJ, et al. **Transplantation** 1997 Sep 15;64(5):780–2

THERAPEUTIC USE

The Losartan Intervention For Endpoint reduction (LIFE) in Hypertension study: rationale, design, and methods. The LIFE Study Group. Dahlöf B, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):705–13

Antihypertensive and anti–albuminuric effects of losartan potassium and felodipine in Chinese elderly hypertensive patients with or without non–insulin–dependent diabetes mellitus. Chan JC, et al. **Am J Nephrol** 1997;17(1):72–80

Chronic effects of ANG II antagonist in heart failure: improvement of cGMP generation from ANP. Maeda Y, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2139–45

Angiotensin II receptor inhibition. A new therapeutic principle. Messerli FH, et al. **Arch Intern Med** 1996 Sep 23;156(17):1957–65 (100 ref.)

LDL apheresis with dextran sulfate and angiotension receptor antagonist (Losartan). Elicio N, et al. **Artif Organs** 1997 Apr;21(4):334–5

Comparative antihypertensive effects of losartan 50 mg and losartan 50 mg titrated to 100 mg in patients with essential hypertension. Ikeda LS, et al. **Blood Press** 1997 Jan; 6(1):35–43

Angiotensin II antagonism: a new avenue of hypertension management. Gavras H. **Blood Press Suppl** 1997;1:42–6 (24 ref.)

The clinical efficacy and tolerability of the angiotensin II–receptor antagonist losartan in Japanese patients with hypertension. Ogihara T, et al. **Blood Press Suppl** 1996; 2:78–81 (9 ref.)

Effects of losartan on neuroleptic–induced catalepsy in mice. Pires JG, et al. **Braz J Med Biol Res** 1996 Aug;29(8):1045–7

An inpatient trial of the safety and efficacy of losartan compared with placebo and enalapril in patients with essential hypertension. Byyny RL, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):313–9

Haemodynamic and endocrine effects of type 1 angiotensin II receptor blockade in patients with hypoxaemic cor pulmonale. Kiely DG, et al. **Cardiovasc Res** 1997 Jan; 33(1):201–8

Protective effects of ME3221 on hypertensive complications and lifespan in salt–loaded stroke–prone spontaneously hypertensive rats. Nagura J, et al. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):229–35

Effect of an angiotensin II receptor antagonist, TCV–116, on neointimal formation following balloon injury in the SHR carotid artery. Kino H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S360–2

Cardiovascular and renal protective effects of losartan in spontaneously hypertensive rats with diabetes mellitus. Kohzuki M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S366–7

Effect of chronic treatment with ME3221 on blood pressure and mortality in aged stroke–prone spontaneously hypertensive rats. Nagura J, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S363–5

Postrenal transplant erythrosis: a direct role for angiotensin II [letter] Ducloux D, et al. **Clin Nephrol** 1997 Apr; 47(4):277–8

The angiotensin II type 1 receptor blocker losartan in clinical practice: a review. Gavras HP, et al. **Clin Ther** 1996 Nov–Dec;18(6):1058–67; discussion 1057 (10 ref.)

Efficacy, tolerability, and effects on quality of life of losartan, alone or with hydrochlorothiazide, versus amlodipine, alone or with hydrochlorothiazide, in patients with essential hypertension. Oparil S, et al. **Clin Ther** 1996 Jul–Aug; 18(4):608–25

Efficacy, tolerability, and quality of life of losartan, alone or with hydrochlorothiazide, versus nifedipine GITS in patients with essential hypertension. Weir MR, et al. **Clin Ther** 1996 May–Jun;18(3):411–28

A risk–benefit assessment of losartan potassium in the treatment of hypertension. Burrell LM. **Drug Saf** 1997 Jan; 16(1):56–65 (33 ref.)

Losartan potassium: a review of its pharmacology, clinical efficacy and tolerability in the management of hypertension. Goa KL, et al. **Drugs** 1996 May;51(5):820–45 (138 ref.)

Deterioration in renal function with enalapril but not losartan in a patient with renal artery stenosis in a solitary kidney [letter] Missouris CG, et al. **Heart** 1997 Apr;77(4):391–2

Effects of losartan on insulin sensitivity in hypertensive subjects. Laakso M, et al. **Hypertension** 1996 Sep; 28(3):392–6

Angiotensin II and calcium blockers prevent glomerular phenotypic changes in remnant kidney model. Hamaguchi A, et al. **J Am Soc Nephrol** 1996 May;7(5):687–93

Autoregulation of total and zonal glomerular filtration rate in spontaneously hypertensive rats during antihypertensive therapy. Wang X, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):833–41

Losartan: first of a new class of angiotensin antagonists for the management of hypertension. Carr AA, et al. **J Clin Pharmacol** 1996 Jan;36(1):3–12 (34 ref.)

Angiotensin II receptor antagonists, elite drugs (or not) for patients with heart failure or hypertension? Beevers DG, et al. **J Hum Hypertens** 1997 Jun;11(6):329–30

Long–term effects of losartan on blood pressure and left ventricular structure in essential hypertension. Himmelmann A, et al. **J Hum Hypertens** 1996 Nov; 10(11):729–34

Endothelial dysfunction in spontaneously hypertensive rats: consequences of chronic treatment with losartan or captopril. Rodrigo E, et al. **J Hypertens** 1997 Jun; 15(6):613–8

Comparison of the angiotensin II antagonist losartan with the angiotensin converting enzyme inhibitor enalapril in patients with essential hypertension. Tikkanen I, et al. **J Hypertens** 1995 Nov;13(11):1343–51

Effects of losartan on cerebral arteries in stroke–prone spontaneously hypertensive rats. Vacher E, et al. **J Hypertens** 1996 Nov;14(11):1341–8

The effect of angiotensin converting enzyme inhibition and angiotensin II receptor antagonism on obstructed rat bladder. Palmer LS, et al. **J Urol** 1997 Sep;158(3 Pt 2):1100–4

ME3221, a surmountable angiotensin AT1–receptor antagonist, prevents hypertensive complications in aged stroke–prone spontaneously hypertensive rats. Nagura J, et al. **Jpn J Pharmacol** 1996 May;71(1):39–49

Losartan protects the rat kidney from ischemic injury. Heller J, et al. **Kidney Int Suppl** 1996 Jun;55:S113–4

TCV–116 inhibits renal interstitial and glomerular injury in glomerulosclerotic rats. Shibouta Y, et al. **Kidney Int Suppl** 1996 Jun;55:S115–8

Losartan versus captopril in elderly patients with heart failure [letter; comment] Ball SG. **Lancet** 1997 May 17; 349(9063):1474; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Failure of losartan to control blood pressure in scleroderma renal crisis [letter] [see comments] Caskey FJ, et al. **Lancet** 1997 Mar 1;349(9052):620. Comment in: Lancet 1997 Apr 26;349(9060):1255.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Fournier A, et al. **Lancet** 1997 May 17; 349(9063):1473–4; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Angiotensin receptor antagonists [letter; comment] Goldsmith DJ. **Lancet** 1997 Apr 26;349(9060):1255. Comment on: Lancet 1997 Mar 1;349(9052):620.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Jensen BV, et al. **Lancet** 1997 May 17; 349(9063):1473; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Randomised trial of losartan versus captopril in patients over 65 with heart failure (Evaluation of Losartan in the Elderly Study, ELITE) [see comments] Pitt B, et al. **Lancet** 1997 Mar 15;349(9054):747–52. Comment in: Lancet 1997 May 17;349(9063):1473; discussion 1475. Comment in: Lancet 1997 May 17;349(9063):1473–4; discussion 1475. Comment in: Lancet 1997 May 17;349(9063):1474; discussion 1475. Comment in: ACP J Club 1997 Sep–Oct;127(2):29.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Sechi LA, et al. **Lancet** 1997 May 17; 349(9063):1474; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Losartan in post–transplant erythrocytosis [letter] Conlon PJ, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2524–5

Successful long–term treatment of post–transplant erythrocytosis with losartan. Midtvedt K, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2495–7

Losartan reduces albuminuria in patients with essential hypertension. An enalapril controlled 3 months study. Nielsen S, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:19–23

Antiproteinuric effect of Losartan in patients with chronic renal diseases [letter; comment] Zoccali C, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):234–5. Comment on: Nephrol Dial Transplant 1996 Jun;11(6):932–3.

Effects of non–peptide angiotensin II–receptor antagonists on pentylenetetrazol kindling in mice. Georgiev VP, et al. **Neuropeptides** 1996 Oct;30(5):401–4

Effects of an angiotensin II antagonist on reperfusion arrhythmias in dogs. Matsuo K, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):938–45

ELITE study raises losartan's profile in heart failure therapy debate. **S Afr Med J** 1997 Jun;87 Suppl 3:C182

Benefit of angiotensin II receptor blockade in the treatment of posttransplant polycythemia in renal transplant recipients. Kupin W, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):207–8

[Angiotensin II antagonists] Tikkanen I, et al. **Duodecim** 1995; 111(18):1733–5 **(Fin)**

[Angiotensin II antagonists: a distinct therapeutic class (editorial)] Waeber B, et al. **Presse Med** 1996 Oct 26; 25(32):1533–5 (Eng. Abstr.) **(Fre)**

The medicine of the month. Losartan (Cozaar)] Scheen AJ. **Rev Med Liege** 1997 May;52(5):367–9 (8 ref.) **(Fre)**

[Losartan (LORZAAR) and Losartan/hydrochlorothiazide (LORZAAR–PLUS)—their value in hypertension therapy. Symposium on the occasion of the 103rd Session of the German Society. Wiesbaden, 7 April 1997] **Dtsch Med Wochenschr** 1997 Sep;122(36 Suppl Losartan):1–4 **(Ger)**

[Irbesartan—a new AT1–receptor antagonist (AT1–blocker). Angiotensin–II–receptor antagonists: perspectives of a new therapeutic principle, Wiesbaden, 6 April 1997] **Dtsch Med Wochenschr** 1997 Sep;122(37 Suppl):1–4 **(Ger)**

[Angiotensin II antagonist for heart insufficiency] **Z Kardiol** 1997 Jun;86(6 Suppl):1–8 **(Ger)**

[The first clinical experience in Italy with angiotensin II receptor antagonists: results of a multicenter study on the efficacy and tolerance in arterial hypertension] Trimarco B. **Cardiologia** 1995 Dec;40(12 Suppl 1):193–5 **(Ita)**

[Losartan, an angiotensin II receptor blocker: a new trend in cardiovascular chemotherapy] Krasnikova TL. **Klin Med (Mosk)** 1996;74(3):17–21 (38 ref.) **(Rus)**

TOXICITY

Interaction of p–benzoquinone and p–biphenoquinone with microtubule proteins in vitro. Pfeiffer E, et al. **Chem Biol Interact** 1996 Sep 27;102(1):37–53

Characterization of the high sensitivity of rabbits to the effects of TCV–116, an angiotensin II receptor antagonist. Sato K, et al. **Fundam Appl Toxicol** 1997 Jan;35(1):49–54

Long–term alterations in regional brain serotonin metabolism following maternal polychlorinated biphenyl exposure in the rat. Morse DC, et al. **Neurotoxicology** 1996 Fall–Winter; 17(3–4):631–8

Toxicokinetic analysis of losartan during gestation and lactation in the rat. Spence SG, et al. **Teratology** 1996 Apr; 53(4):245–52

Additive interactions between pairs of polybrominated dibenzo–p–dioxin, dibenzofuran, and biphenyl congeners in a rainbow trout early life stage mortality bioassay. Hornung MW, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):345–55

Toxic equivalency factors of polybrominated dibenzo–p–dioxin, dibenzofuran, biphenyl, and polyhalogenated diphenyl ether congeners based on rainbow trout early life stage mortality. Hornung MW, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):227–34

BIPHENYLAMINES see **AMINOBIPHENYL COMPOUNDS**

BIPHENYLDIAMINES see **BENZIDINES**

BIPOLAR DISORDER

Bipolar women [letter; comment] Zibin T, et al. **Am J Psychiatry** 1997 Mar;154(3):441. Comment on: Am J Psychiatry 1996 Feb;153(2):163–73.

Co–occurrence and contransmission of affective disorders and alcoholism in families. Maier W, et al. **Br J Psychiatry Suppl** 1996 Jun;(30):93–100

Juvenile onset bipolar disorder. Hechtman L, et al. **Curr Opin Pediatr** 1997 Aug;9(4):346–53 (84 ref.)

AACAP official action. Practice parameters for the assessment and treatment of children and adolescents with bipolar disorder. **J Am Acad Child Adolesc Psychiatry** 1997 Jan;36(1):138–57

Is comorbidity with ADHD a marker for juvenile–onset mania? Faraone SV, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1046–55

Child and adolescent bipolar disorder: a review of the past 10 years. Geller B, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep; 36(9):1168–76 (95 ref.)

BPD and ADHD [letter] Lombardo GT. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):719–20

BMP approach deters mental illness treatment [letter; comment] **Minn Med** 1997 Apr;80(4):6. Comment on: Minn Med 1997 Jan;80(1):42–3, 45–6.

An act of courage [letter; comment] Kashtan JF.

Minn Med 1997 Apr;80(4):6. Comment on: Minn Med 1997 Jan;80(1):42–3, 45–6.
Bipolar illness. el-Mallakh RS. **South Med J** 1997 Aug; 90(8):775–9 (67 ref.)

BLOOD

Serum triglyceride levels in patients treated with clozapine. Ghaeli P, et al. **Am J Health Syst Pharm** 1996 Sep 1; 53(17):2079–81
High intracellular calcium concentrations in transformed lymphoblasts from subjects with bipolar I disorder. Emamghoreishi M, et al. **Am J Psychiatry** 1997 Jul; 154(7):976–82
High levels of Gs alpha in platelets of euthymic patients with bipolar affective disorder. Mitchell PB, et al. **Am J Psychiatry** 1997 Feb;154(2):218–23
Platelet endogenous adenosine 5'-diphosphate ribosylation in drug-free and lithium-treated subjects with bipolar disorder. Young LT, et al. **Biol Psychiatry** 1997 Sep 1; 42(5):413–5
Lithium blocks 45Ca2+ uptake into platelets in bipolar affective disorder and controls. Berk M, et al. **Clin Neuropharmacol** 1996 Feb;19(1):48–51
Differential G protein measures in mononuclear leukocytes of patients with bipolar mood disorder are state dependent. Avissar S, et al. **J Affect Disord** 1997 Apr;43(2):85–93
Leukocyte transmembrane potential in bipolar illness. El-Mallakh RS, et al. **J Affect Disord** 1996 Nov 4; 41(1):33–7
Reply to letter from Swartz on "Mania and lower serum cholesterol levels [letter] Callahan AM, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):95–7
Nocturnal melatonin and 24-hour 6-sulphatoxymelatonin levels in various phases of bipolar affective disorder. Kennedy SH, et al. **Psychiatry Res** 1996 Jul 31; 63(2–3):219–22
Plasma membrane phospholipid fatty acid composition of cultured skin fibroblasts from schizophrenic patients: comparison with bipolar patients and normal subjects. Mahadik SP, et al. **Psychiatry Res** 1996 Jul 31; 63(2–3):133–42
Platelet membrane phosphatidylinositol-4,5-bisphosphate alterations in bipolar disorder—evidence from a single case study. Soares JC, et al. **Psychiatry Res** 1997 Mar 24; 69(2–3):197–202
Effects of age on spontaneous cortisolaemia of normal volunteers and depressed patients. Maes M, et al. **Psychoneuroendocrinology** 1994;19(1):79–84
Differential effects of lithium on platelet protein phosphorylation in bipolar patients and healthy subjects. Zanardi R, et al. **Psychopharmacology (Berl)** 1997 Jan; 129(1):44–7

CHEMICALLY INDUCED

Probable nefazodone-induced mania in a patient with unreported bipolar disorder. Zaphiris HA, et al. **Ann Clin Psychiatry** 1996 Dec;8(4):207–10
Rapid cycling triggered by pindolol augmentation of paroxetine, but not with desipramine. Kraus RP. **Depression** 1996;4(2):92–4
SSRI-induced mania [letter; comment] Grubbs JH. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):445 . Comment on: J Am Acad Child Adolesc Psychiatry 1996 Jan;35(1):4. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Aug;35(8):975.

CLASSIFICATION

Differential features between bipolar I and bipolar II disorder. Vieta E, et al. **Compr Psychiatry** 1997 Mar-Apr; 38(2):98–101

COMPLICATIONS

On the nature of depressive and anxious states in a family practice setting: the high prevalence of bipolar II and related disorders in a cohort followed longitudinally. Manning JS, et al. **Compr Psychiatry** 1997 Mar-Apr; 38(2):102–8
Conduct disorder with and without mania in a referred sample of ADHD children. Biederman J, et al. **J Affect Disord** 1997 Jul;44(2–3):177–88
Strategies for managing depression complicated by bipolar disorder, suicidal ideation, or psychotic features. Hartmann PM. **J Am Board Fam Pract** 1996 Jul-Aug;9(4):261–9 (69 ref.)
Multiple sclerosis and bipolar disorder: a case report with autopsy findings. Casanova MF, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):206–8
Amantadine and human Borna disease virus in vitro and in vivo in an infected patient with bipolar depression [letter] [see comments] Bode L, et al. **Lancet** 1997 Jan 18; 349(9046):178–9. Comment in: Lancet 1997 Mar 29;349(9056):958.
[Medical and administrative neglect of high blood glucose levels; comments on a decision by a medical disciplinary tribunal] Erkelens DW. **Ned Tijdschr Geneeskd** 1997 Apr 26;141(17):813–5 (Eng. Abstr.) **(Dut)**

DIAGNOSIS

Personality and personality disorders predict development and relapses of major depression. Alnaes R, et al. **Acta Psychiatr Scand** 1997 Apr;95(4):336–42
Atypical depressive symptoms and clusters in unipolar and bipolar depression. Robertson HA, et al. **Acta Psychiatr Scand** 1996 Dec;94(6):421–7
Prediction of depressive relapse in remitted bipolar patients using corticotrophin-releasing hormone challenge test. Vieta E, et al. **Acta Psychiatr Scand** 1997 Mar;95(3):205–11
Prodromal symptoms of recurrent major depressive episodes: a qualitative analysis. Hagerty BM, et al. **Am J Orthopsychiatry** 1997 Apr;67(2):308–14
Borderline personality and bipolar disorder [letter; comment] Feiner NF. **Am J Psychiatry** 1997 Aug;154(8):1175–6; discussion 1176–7. Comment on: Am J Psychiatry 1996 Sep;153(9):1202–7.
Phenomenology of adolescent and adult mania in hospitalized patients with bipolar disorder. McElroy SL, et al. **Am J Psychiatry** 1997 Jan;154(1):44–9
Borderline personality and bipolar disorder [letter; comment] Prakash R, et al. **Am J Psychiatry** 1997 Aug;154(8):1176; discussion 1176–7. Comment on: Am J Psychiatry 1996 Sep;153(9):1202–7.
d-fenfluramine-induced prolactin responses in mania: evidence for serotonergic subsensitivity. Thakore JH, et al. **Am J Psychiatry** 1996 Nov;153(11):1460–3
Psychosis and etiology [letter; comment] Trémeau F, et al. **Am J Psychiatry** 1997 Jan;154(1):132–4. Comment on: Am J Psychiatry 1995 Oct;152(10):1458–63.
Panic disorder in subjects with pure mania and depressive mania. Shoaib AM, et al. **Anxiety** 1994–95;1(6):302–4
Bipolar disorder following a stroke involving the left hemisphere. Liu CY, et al. **Aust N Z J Psychiatry** 1996 Oct;30(5):688–91
Bone mineral density and L-thyroxine treatment in rapidly cycling bipolar disorder. Gyulai L, et al. **Biol Psychiatry** 1997 Feb 15;41(4):503–6
Ziskind-Somerfeld Research Award 1996. Medial and superior temporal gyral volumes and cerebral asymmetry in schizophrenia versus bipolar disorder. Pearlson GD, et al. **Biol Psychiatry** 1997 Jan 1;41(1):1–14
Dexamethasone response, thyrotropin-releasing hormone stimulation, rapid eye movement latency, and subtypes of depression. Rush AJ, et al. **Biol Psychiatry** 1997 May 1; 41(9):915–28
Concurrent validity of the OPCRIT diagnostic system. Comparison of OPCRIT diagnoses with consensus best-estimate lifetime diagnoses. Craddock M, et al. **Br J Psychiatry** 1996 Jul;169(1):58–63
Bipolar disorder in children and adolescents: current challenges. Steele M, et al. **Can J Psychiatry** 1997 Aug; 42(6):632–6
Adolescent bipolar disorder complicated by cultural factors: a case report [letter] White W, et al. **Can J Psychiatry** 1996 Nov;41(9):603–4
Factor analysis of the Montgomery-Asberg Depression Rating Scale. Craighead WE, et al. **Depression** 1996; 4(1):31–3
Premorbid personality in patients with uni- and bipolar affective disorders and controls: assessment by the Biographical Personality Interview (BPI). Hecht H, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(1):23–30
Global assessment of relational functioning scale (GARF): II. Reliability and validity in a sample of families of bipolar patients. Dausch BM, et al. **Fam Process** 1996 Jun; 35(2):175–89
Negative life events and time to recovery from episodes of bipolar disorder. Johnson SL, et al. **J Abnorm Psychol** 1997 Aug;106(3):449–57
Antisaccade performance in patients with schizophrenia and affective disorder. Katsanis J, et al. **J Abnorm Psychol** 1997 Aug;106(3):468–72
Short-term variability of mood ratings in unipolar and bipolar depressed patients. Ahearn EP, et al. **J Affect Disord** 1996 Jan 22;36(3–4):107–15
Bipolar disorder, unipolar depression and the Five-Factor Model of personality. Bagby RM, et al. **J Affect Disord** 1996 Nov 4;41(1):25–32
Predictors of service utilization in veterans with bipolar disorder: a prospective study. Bauer MS, et al. **J Affect Disord** 1997 Jul;44(2–3):159–68
Infradian mood fluctuations during a Major Depressive episode. Benedetti F, et al. **J Affect Disord** 1996 Nov 25; 41(2):81–7
Well-being and functioning in patients with bipolar disorder assessed using the MOS 20-ITEM short form (SF-20). Cooke RG, et al. **J Affect Disord** 1996 Jul 8;39(2):93–7
Bipolar II disorder: a progress report [editorial] Coryell W. **J Affect Disord** 1996 Dec 16;41(3):159–62
Clinical subtypes of bipolar mixed states: validating a broader European definition in 143 cases. Perugi G, et al. **J Affect Disord** 1997 May;43(3):169–80
Personality differences between patients with major depression and bipolar disorder--the impact of minor symptoms on self-ratings of personality. Sauer H, et al. **J Affect Disord** 1997 Feb;42(2–3):169–77
Personality traits in subjects with bipolar I disorder in remission. Solomon DA, et al. **J Affect Disord** 1996 Sep 9;40(1–2):41–8
Clinical and personality correlates of outcome in depressive disorders in a Turkish sample. Uluşahin A, et al. **J Affect Disord** 1997 Jan;42(1):1–8
Thought disorder in BPD and ADHD [letter; comment] Jerome L. **J Am Acad Child Adolesc Psychiatry** 1997 Jun; 36(6):720–1. Comment on: J Am Acad Child Adolesc Psychiatry 1995 Jul;34(7):867–76. Comment on: J Am Acad Child Adolesc Psychiatry 1996 Oct;35(10):1257–8.
CD and ADHD in bipolar disorder [letter] Schneider SM, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1422–3
Impaired neuropsychological performance in euthymic patients with recurring mood disorders. Tham A, et al. **J Clin Psychiatry** 1997 Jan;58(1):26–9
The differential diagnosis of multiple sclerosis and bipolar disorder [letter; comment] Young CR, et al. **J Clin Psychiatry** 1997 Mar;58(3):123. Comment on: J Clin Psychiatry 1995 Jul;56(7):297–306; discussion 307–8.
Suicidal behavior in bipolar I and bipolar II disorder. Vieta E, et al. **J Nerv Ment Dis** 1997 Jun;185(6):407–9
Cognition, negative symptoms, and diagnosis: a comparison of schizophrenic, bipolar, and control samples. Hawkins KA, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter; 9(1):81–9
TPQ in euthymic manic-depressive patients. Osher Y, et al. **J Psychiatr Res** 1996 Sep-Oct;30(5):353–7
Bipolar mood disorders in the elderly. Young RC. **Psychiatr Clin North Am** 1997 Mar;20(1):121–36 (100 ref.)
Limitations of cognitive status exams: a case-based discussion [see comments] Hawkins KA, et al. **Psychiatry** 1996 Winter; 59(4):382–8. Comment in: Psychiatry 1996 Winter;59(4):389–92.
Periodicity and prediction of mania onsets in biopolar I affective disorders. Mizukawa R, et al. **Psychiatry Clin Neurosci** 1996 Oct;50(5):251–5
Relationship between the five-factor model of personality and unipolar, bipolar and schizophrenic patients. Bagby RM, et al. **Psychiatry Res** 1997 May 5;70(2):83–94
Sleep loss, a possible factor in augmenting manic episode. Barbini B, et al. **Psychiatry Res** 1996 Nov 15;65(2):121–5
Personality disorders in first- and multiple-episode mania. Dunayevich E, et al. **Psychiatry Res** 1996 Aug 30; 64(1):69–75
Agreement between face-to-face and telephone-administered mood ratings in patients with rapid cycling bipolar disorder. Feldman-Naim S, et al. **Psychiatry Res** 1997 Jul 4;71(2):129–32
Whole-blood serotonin in children and adolescents with mood and behavior disorders. Hughes CW, et al. **Psychiatry Res** 1996 Nov 15;65(2):79–95
Birth order, suicidal preoccupation, and scores suggesting manic-depressive tendencies. Bergman KJ, et al. **Psychol Rep** 1997 Apr;80(2):442
Blunted dexamethasone-induced growth hormone responses in acute mania. Thakore JH, et al. **Psychoneuroendocrinology** 1996 Nov;21(8):695–701
Assessment of basic symptoms in schizophrenia, schizoaffective and bipolar disorders. Ricca V, et al. **Psychopathology** 1997;30(1):53–8
CADASIL presenting as bipolar disorder [letter] Kumar SK, et al. **Psychosomatics** 1997 Jul-Aug;38(4):397–8
Validity of the mania subscale of the Diagnostic Assessment for the Severely Handicapped-II (DASH-II). Matson JL, et al. **Res Dev Disabil** 1997 May-Jun;18(3):221–5
[Borderline or bipolar disorder after all?] Knoppert-van der Klein EA, et al. **Ned Tijdschr Geneeskd** 1997 Mar 1; 141(9):409–12 (Eng. Abstr.) **(Dut)**
[Need for recognizing bipolar disorders in all its forms (editorial)] Akiskal HS. **Encephale** 1997 Jan;23 Spec No 1:1 **(Fre)**
[Tools for clinical evaluation of affective temperaments] Hantouche EG, et al. **Encephale** 1997 Jan;23 Spec No 1:27–34 (16 ref.) (Eng. Abstr.) **(Fre)**
[Clinical course as a risk factor for chronification of depressive disorders. Results of a 6-year follow-up] Ruppe A, et al. **Psychiatr Prax** 1996 Jul;23(4):175–9 (Eng. Abstr.) **(Ger)**
[The clinical characteristics of endogenous mental diseases with paroxysm-like disorders] Chikovani GO. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(5):18–21 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Cerebellar ataxia in upper limbs triggered by addition of carbamazepine to lithium treatment. Manto MU, et al. **Acta Neurol Belg** 1996 Dec;96(4):316–7
Is alternate-day lithium really ineffective? [letter; comment] Andrade C. **Acta Psychiatr Scand** 1996 Oct;94(4):281–2. Comment on: Acta Psychiatr Scand 1995 Jul;92(1):69–74.
Course of illness and pattern of recurrences in patients with affective disorders during long-term lithium prophylaxis: a retrospective analysis over 15 years. Berghöfer A, et al. **Acta Psychiatr Scand** 1996 May;93(5):349–54
Alterations in plasma dipeptidyl peptidase IV enzyme activity in depression and schizophrenia: effects of antidepressants and antipsychotic drugs. Maes M, et al. **Acta Psychiatr Scand** 1996 Jan;93(1):1–8
The combat of non-compliance during prophylactic lithium treatment. Schou M. **Acta Psychiatr Scand** 1997 May; 95(5):361–3 (28 ref.)
Irreversible sinus node dysfunction induced by resumption of lithium therapy. Terao T, et al. **Acta Psychiatr Scand** 1996 May;93(5):407–8
Reducing the "revolving door" phenomenon [letter; comment] Conte G, et al. **Am J Psychiatry** 1996 Nov; 153(11):1512. Comment on: Am J Psychiatry 1995 Jun;152(6):856–61.

Antidepressant-induced manic switches [letter] Furukawa T. **Am J Psychiatry** 1996 Oct;153(10):1370

Response of kleptomania and mixed mania to valproate [letter] Kmetz GF, et al. **Am J Psychiatry** 1997 Apr; 154(4):580–1

Lamotrigine treatment of rapid cycling bipolar disorder [letter; comment] Kusumakar V, et al. **Am J Psychiatry** 1997 Aug;154(8):1171–2. Comment on: Am J Psychiatry 1996 Sep;153(9):1236.

Lamotrigine for treatment-refractory bipolar disorder [letter] Labbate LA, et al. **Am J Psychiatry** 1997 Sep;154(9):1317

Treatment of bipolar disorder [letter; comment] Maany I. **Am J Psychiatry** 1996 Nov;153(11):1510–1; discussion 1511–2. Comment on: Am J Psychiatry 1995 Nov;152(11):1635–40.

Gabapentin in the treatment of bipolar disorder [letter] Schaffer CB, et al. **Am J Psychiatry** 1997 Feb;154(2):291–2

Serum lithium levels and psychosocial function in patients with bipolar I disorder. Solomon DA, et al. **Am J Psychiatry** 1996 Oct;153(10):1301–7

Treatment of bipolar disorder [letter; comment] Whitefield SG, et al. **Am J Psychiatry** 1996 Nov;153(11):1511; discussion 1511–2. Comment on: Am J Psychiatry 1995 Nov;152(11):1635–40.

A pilot trial of adjunctive gabapentin in the treatment of bipolar disorder. McElroy SL, et al. **Ann Clin Psychiatry** 1997 Jun;9(2):99–103

EEG abnormalities before clozapine therapy predict a good clinical response to clozapine. Pillay SS, et al. **Ann Clin Psychiatry** 1996 Mar;8(1):1–5

Increased serum lithium concentration secondary to treatment with tiaprofenic acid and fosinopril. Alderman CP, et al. **Ann Pharmacother** 1996 Dec;30(12):1411–3

Neuroleptics in acute mania: a pharmacoepidemiologic study. Chou JC, et al. **Ann Pharmacother** 1996 Dec;30(12):1396–8

Inpatient self-management of bipolar disorder. Pollack LE. **Appl Nurs Res** 1996 May;9(2):71–9

Depression during mania. Treatment response to lithium or divalproex. Swann AC, et al. **Arch Gen Psychiatry** 1997 Jan;54(1):37–42

Lithium therapy in the treatment of manic-depressive illness. Present status and future perspectives. A critical review. Emilien G, et al. **Arch Int Pharmacodyn Ther** 1995 Nov-Dec;330(3):251–78 (137 ref.)

Neuroleptic malignant syndrome and risperidone: a case report. Bonwick RJ, et al. **Aust N Z J Psychiatry** 1996 Jun;30(3):419–21

Clozapine in the management of bipolar and schizoaffective manic episodes resistant to standard treatment. Mahmood T, et al. **Aust N Z J Psychiatry** 1997 Jun;31(3):424–6

Photophobia and lithium. Pridmore S, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):287–9

On the functions of lithium: the mood stabilizer. Shastry BS. **Bioessays** 1997 Mar;19(3):199–200 (25 ref.)

Clozapine treatment of persistent paroxysmal dyskinesia associated with concomitant paroxetine and sumatriptan use. Abraham JT, et al. **Biol Psychiatry** 1997 Jul 15; 42(2):144–6

Comparative antidepressant effects of intravenous and intrathecal thyrotropin-releasing hormone: confounding effects of tolerance and implications for therapeutics. Callahan AM, et al. **Biol Psychiatry** 1997 Feb 1; 41(3):264–72

Treatment of bipolar depression with carbamazepine: results of an open study. Dilsaver SC, et al. **Biol Psychiatry** 1996 Nov 1;40(9):935–7

Bone mineral density and L-thyroxine treatment in rapidly cycling bipolar disorder. Gyulai L, et al. **Biol Psychiatry** 1997 Feb 15;41(4):503–6

National Institute of Mental Health Workshop Report on the Treatment of Bipolar Disorder. Prien RF, et al. **Biol Psychiatry** 1996 Aug 1;40(3):215–20

Choline in the treatment of rapid-cycling bipolar disorder: clinical and neurochemical findings in lithium-treated patients. Stoll AL, et al. **Biol Psychiatry** 1996 Sep 1; 40(5):382–8

The validity of evidence [letter; comment] Gilbody S. **Br J Psychiatry** 1996 Feb;168(2):250. Comment on: Br J Psychiatry 1995 Nov;167(5):569–73; discussion 573–4.

Uptake of 99mTc-exametazime shown by single photon emission computed tomography before and after lithium withdrawal in bipolar patients: associations with mania. Goodwin GM, et al. **Br J Psychiatry** 1997 May;170:426–30

Lithium revisited [letter; comment] Moncrieff J. **Br J Psychiatry** 1996 Jun;168(6):789. Comment on: Br J Psychiatry 1996 Mar;168(3):381–3.

Lithium revisited [letter; comment] Schou M. **Br J Psychiatry** 1996 Feb;168(2):250. Comment on: Br J Psychiatry 1995 Nov;167(5):569–73; discussion 573–4.

Inappropriate secretion of antidiuretic hormone and SSRIs [letter] [see comments] Voegeli J, et al. **Br J Psychiatry** 1996 Oct;169(4):524–5. Comment in: Br J Psychiatry 1997 Jan;170:88–9.

Acute treatment of bipolar disorder with adjunctive risperidone in outpatients. Ghaemi SN, et al. **Can J Psychiatry** 1997 Mar;42(2):196–9

Desmopressin for enuresis in psychiatric patients [letter] Jeffries JJ, et al. **Can J Psychiatry** 1996 Jun;41(5):317–8

Risperidone treatment of bipolar disorder [letter] McIntyre R, et al. **Can J Psychiatry** 1997 Feb;42(1):88–90

Treatment of bipolar depression: a survey of Canadian psychiatrists. Sharma V, et al. **Can J Psychiatry** 1997 Apr; 42(3):298–302

Tap (draft) beer and monoamine oxidase inhibitor dietary restrictions. Shulman KI, et al. **Can J Psychiatry** 1997 Apr; 42(3):310–2

Pharmacotherapy of affective disorders in old age. Tourigny-Rivard MF. **Can J Psychiatry** 1997 Jun;42 Suppl 1:10S–18S (107 ref.)

Pathologic assessment of cerebellar atrophy following acute lithium intoxication. Mangano WE, et al. **Clin Neuropathol** 1997 Jan-Feb;16(1):30–3 (19 ref.)

Lithium and male sexual function in affective patients. Aizenberg D, et al. **Clin Neuropharmacol** 1996 Dec; 19(6):515–9

Lithium-induced Creutzfeldt-Jakob syndrome. Casanova B, et al. **Clin Neuropharmacol** 1996 Aug;19(4):356–9

Management of the depressive component of bipolar disorder. Kalin NH. **Depress Anxiety** 1996-97;4(4):190–8 (55 ref.)

Long term treatment of bipolar disorder [see comments] Silverstone T, et al. **Drugs** 1996 Mar;51(3):367–82 (105 ref.) . Comment in: Drugs 1997 Apr;53(4):726.

Sleep deprivation hastens the antidepressant action of fluoxetine. Benedetti F, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(2):100–3

Central pontine myelinolysis related to lithium toxicity [letter] Khan AU, et al. **Gen Hosp Psychiatry** 1997 Mar; 19(2):150–2

Response to clozapine in acute mania is more rapid than that of chlorpromazine. Barbini B, et al. **Int Clin Psychopharmacol** 1997 Mar;12(2):109–12

A case of serotonin syndrome induced by concomitant treatment with low-dose trazodone and amitriptyline and lithium. Nisijima K, et al. **Int Clin Psychopharmacol** 1996 Dec;11(4):289–90

The role of antipsychotic agents in the treatment of bipolar disorder patients. Soares JC, et al. **Int Clin Psychopharmacol** 1997 Mar;12(2):65–76 (155 ref.)

Acute lithium intoxication in pregnancy [letter] Nishiwaki T, et al. **Int J Gynaecol Obstet** 1996 Feb;52(2):191–2

Clonazepam in acute mania: time-blind evaluation of clinical response and concentrations in plasma. Bottaï T, et al. **J Affect Disord** 1995 Dec 24;36(1-2):21–7

Renal side-effects of long-term lithium treatment. Coşkunol H, et al. **J Affect Disord** 1997 Mar;43(1):5–10

Lithium versus carbamazepine in the maintenance treatment of bipolar disorders--a randomised study. Greil W, et al. **J Affect Disord** 1997 Apr;43(2):151–61

Double-blind comparison of the side-effect profiles of daily versus alternate-day dosing schedules in lithium maintenance treatment of manic-depressive disorder. Jensen HV, et al. **J Affect Disord** 1996 Jan 22;36(3-4):89–93

Predictive value of tryptophan/large neutral amino acids ratio to antidepressant response. Lucini V, et al. **J Affect Disord** 1996 Jan 22;36(3-4):129–33

Late non-response to lithium prophylaxis in bipolar patients: prevalence and predictors. Maj M, et al. **J Affect Disord** 1996 Jun 20;39(1):39–42

A survey of prescribing practice of antipsychotic maintenance treatment for manic-depressive outpatients. Verdoux H, et al. **J Affect Disord** 1996 Jun 5;38(2-3):81–7

Hormonal effects of valproic acid? [letter] Garland EJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1424–5

Case study: the use of melatonin in a boy with refractory bipolar disorder. Robertson JM, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):822–5

High-dose T4 for rapid-cycling bipolar disorder [letter] Weeston TF, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Feb;35(2):131–2

Novel alternatives and supplements to lithium and anticonvulsants for bipolar affective disorder. Dubovsky SL, et al. **J Clin Psychiatry** 1997 May;58(5):224–42; quiz 243–4 (221 ref.)

Dose-related thrombocytopenia and macrocytic anemia associated with valproate use in bipolar disorder [letter] Fawcett RG. **J Clin Psychiatry** 1997 Mar;58(3):125

Lamotrigine treatment of refractory bipolar disorder. Fogelson DL, et al. **J Clin Psychiatry** 1997 Jun;58(6):271–3

Reversible dyskinesia during bupropion therapy [letter] Gardos G. **J Clin Psychiatry** 1997 May;58(5):218

Chronic neuroleptic exposure in bipolar outpatients [published erratum appears in J Clin Psychiatry 1997 Jun;58(6):275] Sernyak MJ, et al. **J Clin Psychiatry** 1997 May;58(5):193–5

Induction of mania by risperidone resistant to mood stabilizers [letter] Barkin JS, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):57–8

Concurrent treatment of nonresistant major depression with desipramine and lithium: a double-blind, placebo-controlled study. Bloch M, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):44–8

Clozapine in rapid cycling bipolar disorder [letter] Frye MA, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):87–90

Venlafaxine, monoamine oxidase inhibitors, and the serotonin syndrome [letter] Gitlin MJ. **J Clin Psychopharmacol** 1997 Feb;17(1):66–7

Transient aphasia associated with lithium intoxication [letter] Gordon PH, et al. **J Clin Psychopharmacol** 1997 Feb; 17(1):55–6

Doxycycline-induced lithium toxicity [letter] Miller SC. **J Clin Psychopharmacol** 1997 Feb;17(1):54–5

The anticonvulsant lamotrigine in treatment-resistant manic-depressive illness. Sporn J, et al. **J Clin Psychopharmacol** 1997 Jun;17(3):185–9

Lithium pharmacokinetics in Chinese manic-depressive patients. Wing YK, et al. **J Clin Psychopharmacol** 1997 Jun; 17(3):179–84

A case of neuroleptic malignant syndrome and serotonin disturbance [letter] Young C. **J Clin Psychopharmacol** 1997 Feb;17(1):65–6

CSF inositol does not predict antidepressant response to inositol. Short communication. Levine J, et al. **J Neural Transm** 1996;103(12):1457–62

Gabapentin in bipolar disorder [letter] Ryback RS, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):301

Risperidone-induced tardive dyskinesia and parkinsonism. Gwinn KA, et al. **Mov Disord** 1997 Jan;12(1):119–21

Chorea caused by lithium intoxication: a case report and literature review. Podskalny GD, et al. **Mov Disord** 1996 Nov;11(6):733–7 (22 ref.)

Placebo-controlled study of tianeptine in major depressive episodes. Costa e Silva JA, et al. **Neuropsychobiology** 1997; 35(1):24–9

Value of thyroid echography in the long-term follow-up of lithium-treated patients. Loviselli A, et al. **Neuropsychobiology** 1997;36(1):37–41

Biological treatment of rapid-cycling bipolar disorder. Krüger S, et al. **Pharmacopsychiatry** 1996 Sep;29(5):167–75 (129 ref.)

Addition of lamotrigine to valproate may enhance efficacy in the treatment of bipolar affective disorder. Walden J, et al. **Pharmacopsychiatry** 1996 Sep;29(5):193–5

Combined treatment with lithium and nimodipine in a bipolar I manic syndrome. Grunze H, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):419–26

Association between mood-stabilizing medication and mental health resource use in the management of acute mania. Sajatovic M, et al. **Psychiatr Serv** 1997 Aug;48(8):1037–41

Lithium and recurrence in a long-term follow-up of bipolar affective disorder. Coryell W, et al. **Psychol Med** 1997 Mar; 27(2):281–9

Prophylactic lithium treatment of unipolar and bipolar manic-depressive illness. Schou M. **Psychopathology** 1995; 28 Suppl 1:81–5 (26 ref.)

Lithium treatment of bipolar affective disorders under naturalistic followup conditions. Goldberg JF, et al. **Psychopharmacol Bull** 1996;32(1):47–54

Compliance with maintenance treatment in bipolar disorder. Keck PE Jr, et al. **Psychopharmacol Bull** 1997;33(1):87–91

Risperidone therapy in treatment refractory acute bipolar and schizoaffective mania. Sajatovic M, et al. **Psychopharmacol Bull** 1996;32(1):55–61

Treatment of elderly institutionalized bipolar patients with clozapine. Shulman RW, et al. **Psychopharmacol Bull** 1997; 33(1):113–8

Polypharmacy in bipolar I disorder. Solomon DA, et al. **Psychopharmacol Bull** 1996;32(4):579–87 (45 ref.)

Twelve-hour brain lithium concentration in lithium maintenance treatment of manic-depressive disorder: daily versus alternate-day dosing schedule. Jensen HV, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):275–8

The place of anticonvulsant therapy in bipolar illness. Post RM, et al. **Psychopharmacology (Berl)** 1996 Nov; 128(2):115–29 (160 ref.)

Dextromethorphan-induced manic symptoms in a bipolar patient on lithium [letter; comment] Bostwick JM. **Psychosomatics** 1996 Nov-Dec;37(6):571–3. Comment on: Psychosomatics 1996 Jan-Feb;37(1):71–4.

Persistent nephrogenic diabetes insipidus following lithium therapy. Thompson CJ, et al. **Scott Med J** 1997 Feb; 42(1):16–7

Neonatal lithium toxicity as a result of maternal toxicity. Flaherty B, et al. **Vet Hum Toxicol** 1997 Apr;39(2):92–3

Lithium, a multi-edged sword: the past, present, and future. Jefferson JW. **Wis Med J** 1996 Apr;95(4):231–5 (27 ref.)

[Administration of high dose levothyroxine in treatment of rapid cycling bipolar disorders. Review of the literature and initial therapeutic application apropos of 6 cases] Afflelou S, et al. **Encephale** 1997 May-Jun;23(3):209–17 (20 ref.) (Eng. Abstr.) **(Fre)**

[Psychosocial adjustment of unipolar and bipolar patients] Escande M, et al. **Encephale** 1995 Dec;21 Spec No 4:55–9 (29 ref.) **(Fre)**

[Reversible neuropsychiatric side effects of lithium with normal serum levels. A case report] Fallgatter AJ, et al. **Nervenarzt** 1997 Jul;68(7):586–90 (Eng. Abstr.) **(Ger)**

[20 years unsuccessful prevention of bipolar affective psychosis recurrence] Godemann F, et al. **Nervenarzt** 1997 Jul;68(7):582–5 (21 ref.) (Eng. Abstr.) **(Ger)**

[Phase prevention in bipolar affective disorder with nimodipine. A case report] Hesslinger B, et al. **Nervenarzt** 1996 May;67(5):394–6 (Eng. Abstr.) **(Ger)**

[Has drug treatment of manic disorders changed in clinical routine practice? Retrospective analysis of treatment modalities and results in a university psychiatric clinic] Reetz-Kokott U, et al. **Nervenarzt** 1996 Mar;67(3):229–34 (Eng. Abstr.) **(Ger)**

[Changes in the blood picture with combination carbamazepine, perazine and antibiotic treatment] Volkmann GS, et al. **Psychiatr Prax** 1996 Nov;23(6):304–5 **(Ger)**

[Efficacy and tolerability of paroxetine in the treatment of the depressive phase of bipolar disorders] Ambrosio LA,

et al. **Minerva Psichiatr** 1996 Jun;37(2):91–7 (Eng. Abstr.) **(Ita)**

[Survey and treatment strategy of antidepressant–resistant depression] Inoue T, et al. **Seishin Shinkeigaku Zasshi** 1996; 98(5):329–42 (Eng. Abstr.) **(Jpn)**

ECONOMICS

[Economic impact of bipolar mood disorders] Martin P. **Encephale** 1997 Jan;23 Spec No 1:49–54 (9 ref.) (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Association analysis of the catechol O–methyltransferase gene and bipolar affective disorder. Gutiérrez B, et al. **Am J Psychiatry** 1997 Jan;154(1):113–5

Enhanced protein kinase C activity and translocation in bipolar affective disorder brains. Wang HY, et al. **Biol Psychiatry** 1996 Oct 1;40(7):568–75

Meta–analysis of erythrocyte Na,K–ATPase activity in bipolar illness. Looney SW, et al. **Depress Anxiety** 1997; 5(2):53–65

EPIDEMIOLOGY

HIV risk behaviour and HIV testing of psychiatric patients in Melbourne. Thompson SC, et al. **Aust N Z J Psychiatry** 1997 Aug;31(4):566–76

Seasonal variation in bipolar disorder. Partonen T, et al. **Br J Psychiatry** 1996 Nov;169(5):641–6

Seasonal variations in bipolar disorder [letter] Pio–Abreu JL. **Br J Psychiatry** 1997 May;170:483–4

Are impulse–control disorders related to bipolar disorder? McElroy SL, et al. **Compr Psychiatry** 1996 Jul–Aug; 37(4):229–40 (98 ref.)

Prevalence of bipolar II disorder in outpatient depression: a 203–case study in private practice. Benazzi F. **J Affect Disord** 1997 Apr;43(2):163–6

Seasonality prevalence and incidence of depressive disorder in a general practice sample: identifying differences in timing by caseness. Blacker CV, et al. **J Affect Disord** 1997 Mar;43(1):41–52

Mood disorders: rural/urban differences in prevalence, health care utilization, and disability in Ontario. Parikh SV, et al. **J Affect Disord** 1996 Apr 26;38(1):57–65

Prevalence of anxiety disorders comorbidity in bipolar depression, unipolar depression and dysthymia. Pini S, et al. **J Affect Disord** 1997 Feb;42(2–3):145–53

Shifts in hospital diagnostic frequencies: bipolar disorder subtypes, 1981–1993. Zarate CA Jr, et al. **J Affect Disord** 1997 Mar;43(1):79–84

Case study: comorbidity among Tourette's syndrome, autistic disorder, and bipolar disorder. Kerbeshian J, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May;35(5):681–5

Attitudes towards bipolar disorder and predictive genetic testing among patients and providers. Smith LB, et al. **J Med Genet** 1996 Jul;33(7):544–9

Manic–depressive disease (bipolar): is it autonomous? Winokur G. **Psychopathology** 1995;28 Suppl 1:51–8 (18 ref.)

Birth seasonality in bipolar disorder, schizophrenia, schizoaffective disorder and stillbirths. Torrey EF, et al. **Schizophr Res** 1996 Sep 18;21(3):141–9

Local geographical variation in the prevalence of schizophrenia in Co. Roscommon, Ireland, in juxtaposition with cases of bipolar disorder [letter] Waddington JL, et al. **Schizophr Res** 1997 Feb 7;23(2):181–3

[Epidemiology of bipolar disorders. Current studies] Rouillon F. **Encephale** 1997 Jan;23 Spec No 1:7–11 (36 ref.) (Eng. Abstr.) **(Fre)**

ETHNOLOGY

Writing Amish culture into genes: biological reductionism in a study of manic depression. Floersch J, et al. **Cult Med Psychiatry** 1997 Jun;21(2):137–59

[Tolerance of ambiguity in endogenous psychoses from the transcultural viewpoint] Heerlein A, et al. **Fortschr Neurol Psychiatr** 1996 Sep;64(9):358–61 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Mood cycles associated with normal pressure hydrocephalus [letter] Schneider U, et al. **Am J Psychiatry** 1996 Oct; 153(10):1366–7

The phenomenon of rapid cycling in bipolar mood disorders: a review. Persad E, et al. **Can J Psychiatry** 1996 Feb; 41(1):23–7 (57 ref.)

Additive effects, but no synergistic interaction of stressful life–events and genetic loading in affective disorders. Fritze J, et al. **J Neural Transm** 1996;103(10):1221–9 (24 ref.)

GENETICS

A systematic evaluation of linkage studies in bipolar disorder. Turecki G, et al. **Acta Psychiatr Scand** 1996 May; 93(5):317–26 (85 ref.)

CAG repeat expansions in bipolar and unipolar disorders [letter] Oruc L, et al. **Am J Hum Genet** 1997 Mar; 60(3):730–2

Understanding the genetic basis of mood disorders: where do we stand? [comment] Reus VI, et al. **Am J Hum Genet** 1997 Jun;60(6):1283–8 (40 ref.). Comment on: Am J Hum Genet 1997 Jun;60(6):1265–75.

Genomic survey of bipolar illness in the NIMH genetics initiative pedigrees: a preliminary report. **Am J Med Genet** 1997 May 31;74(3):227–37

Exclusion of linkage between bipolar affective disorder and chromosome 16 in 12 Australian pedigrees. Adams LJ, et al. **Am J Med Genet** 1997 May 31;74(3):304–10

Nonlinkage of D6S260, a putative schizophrenia locus, to bipolar affective disorder. Adams LJ, et al. **Am J Med Genet** 1996 Sep 20;67(5):485–7

Unipolar relatives in bipolar pedigrees: a search for elusive indicators of underlying bipolarity. Blacker D, et al. **Am J Med Genet** 1996 Sep 20;67(5):445–54

Systematic screening for mutations in the 5'–regulatory region of the human dopamine D1 receptor (DRD1) gene in patients with schizophrenia and bipolar affective disorder. Cichon S, et al. **Am J Med Genet** 1996 Jul 26; 67(4):424–8

Single major locus models for bipolar disorder are implausible [letter; comment] Craddock N, et al. **Am J Med Genet** 1997 Feb 21;74(1):18–20. Comment on: Am J Med Genet 1995 Oct 9;60(5):370–6.

Initial genome scan of the NIMH genetics initiative bipolar pedigrees: chromosomes 4, 7, 9, 18, 19, 20, and 21q. Detera–Wadleigh SD, et al. **Am J Med Genet** 1997 May 31;74(3):254–62

Initial genomic scan of the NIMH genetics initiative bipolar pedigrees: chromosomes 3, 5, 15, 16, 17, and 22. Edenberg HJ, et al. **Am J Med Genet** 1997 May 31;74(3):238–46

Use of linkage disequilibrium approaches to map genes for bipolar disorder in the Costa Rican population. Escamilla MA, et al. **Am J Med Genet** 1996 May 31;67(3):244–53

An approach to investigating linkage for bipolar disorder using large Costa Rican pedigrees. Freimer NB, et al. **Am J Med Genet** 1996 May 31;67(3):254–63

Parent–of–origin effect in transmission of bipolar disorder. Kato T, et al. **Am J Med Genet** 1996 Nov 22;67(6):546–50

Possible locus for bipolar disorder near the dopamine transporter on chromosome 5. Kelsoe JR, et al. **Am J Med Genet** 1996 Nov 22;67(6):533–40

Linkage studies suggest a possible locus for bipolar disorder near the velo–cardio–facial syndrome region on chromosome 22. Lachman HM, et al. **Am J Med Genet** 1997 Apr 18;74(2):121–8

Cladistic analysis of disease association with tyrosine hydroxylase: application to manic–depressive disease and alcoholism. Lobos EA, et al. **Am J Med Genet** 1997 May 31;74(3):289–95

Analysis of the CAG repeats in the SCA1 and B37 genes in schizophrenic and bipolar I disorder patients: tentative association between B37 and schizophrenia. Morris–Rosendahl DJ, et al. **Am J Med Genet** 1997 May 31;74(3):324–30

Analysis of the tyrosine hydroxylase and dopamine D4 receptor genes in a Croatian sample of bipolar I and unipolar patients. Oruč L, et al. **Am J Med Genet** 1997 Apr 18;74(2):176–8

No evidence of association between dopamine D3 receptor gene and bipolar affective disorder. Piccardi MP, et al. **Am J Med Genet** 1997 Apr 18;74(2):137–9

A study of genetic association between manic–depressive illness and a highly polymorphic marker from the GABRbeta–1 gene. Puertollano R, et al. **Am J Med Genet** 1997 May 31;74(3):342–4

Initial genome scan of the NIMH genetics initiative bipolar pedigrees: chromosomes 1, 6, 8, 10, and 12. Rice JP, et al. **Am J Med Genet** 1997 May 31;74(3):247–53

Analysis of polyglutamine–coding repeats in the TATA–binding protein in different human populations and in patients with schizophrenia and bipolar affective disorder. Rubinsztein DC, et al. **Am J Med Genet** 1996 Sep 20;67(5):495–8

Association study of bipolar disorder with candidate genes involved in catecholamine neurotransmission: DRD2, DRD3, DAT1, and TH genes. Souery D, et al. **Am J Med Genet** 1996 Nov 22;67(6):551–5

Exclusion of CAG/CTG trinucleotide repeat loci which map to chromosome 4 in bipolar disorder and schizophrenia. Speight G, et al. **Am J Med Genet** 1997 Apr 18;74(2):204–6

Initial genome screen for bipolar disorder in the NIMH genetics initiative pedigrees: chromosomes 2, 11, 13, 14, and X. Stine OC, et al. **Am J Med Genet** 1997 May 31; 74(3):263–9

Linkage disequilibrium analysis of G–olf alpha (GNAL) in bipolar affective disorder. Tsiouris SJ, et al. **Am J Med Genet** 1996 Sep 20;67(5):491–4

Isolation of chromosome 18–specific brain transcripts as positional candidates for bipolar disorder. Yoshikawa T, et al. **Am J Med Genet** 1997 Apr 18;74(2):140–9

Genetic risk factors for bipolar disorder [letter] Cohn CK. **Am J Psychiatry** 1997 Oct;154(10):1484

Exclusion of expansion of 50 CAG/CTG trinucleotide repeats in bipolar disorder. Guy C, et al. **Am J Psychiatry** 1997 Aug;154(8):1146–7

Bipolar spectrum disorders in patients diagnosed with velo–cardio–facial syndrome: does a hemizygous deletion of chromosome 22q11 result in bipolar affective disorder? Papolos DF, et al. **Am J Psychiatry** 1996 Dec; 153(12):1541–7

Molecular genetics of bipolar disorder [editorial] Berrettini WH, et al. **Ann Med** 1996 Jun;28(3):191–4 (44 ref.)

A linkage study of bipolar illness. Berrettini WH, et al. **Arch Gen Psychiatry** 1997 Jan;54(1):27–35

No abnormality in the gene for the G protein stimulatory alpha subunit in patients with bipolar disorder. Ram A, et al. **Arch Gen Psychiatry** 1997 Jan;54(1):44–8

Serotonin transporter gene and manic depressive illness: an association study. Bellivier F, et al. **Biol Psychiatry** 1997 Mar 15;41(6):750–2

Elevated lymphocyte spiperone binding: a vulnerability factor for affective psychosis? Fartaçek R, et al. **Biol Psychiatry** 1997 Jan 1;41(1):107–10

Panic disorder with familial bipolar disorder. MacKinnon DF, et al. **Biol Psychiatry** 1997 Jul 15;42(2):90–5

Lack of evidence for a major locus for bipolar disorder in the pericentromeric region of chromosome 18 in Irish pedigrees. Mynett–Johnson LA, et al. **Biol Psychiatry** 1997 Sep 15;42(6):486–94

Excess tyrosine hydroxylase restriction fragment length polymorphism homozygosity in unipolar but not bipolar patients: a preliminary report. Souery D, et al. **Biol Psychiatry** 1996 Aug 15;40(4):305–8

Identification of differentially expressed RNA transcripts in neuropsychiatric disorders [editorial] Yee F, et al. **Biol Psychiatry** 1997 Apr 1;41(7):759–61

Serotonin2A receptor gene polymorphism in mood disorders. Zhang HY, et al. **Biol Psychiatry** 1997 Apr 1;41(7):768–73

Genetic anticipation and imprinting in bipolar I illness. Grigoroiu–Serbanescu M, et al. **Br J Psychiatry** 1997 Feb; 170:162–6

Implications of comorbidity for genetic studies of bipolar disorder: P300 and eye tracking as biological markers for illness. Blackwood DH, et al. **Br J Psychiatry Suppl** 1996 Jun;(30):85–92

Bipolar disorder: from families to genes. Alda M. **Can J Psychiatry** 1997 May;42(4):378–87 (155 ref.)

Children of parents with bipolar disorder: a metaanalysis of risk for mental disorders. Lapalme M, et al. **Can J Psychiatry** 1997 Aug;42(6):623–31

Recent developments in the genetics of bipolar disorder. DePaulo JR Jr, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:783–9 (62 ref.)

Writing Amish culture into genes: biological reductionism in a study of manic depression. Floersch J, et al. **Cult Med Psychiatry** 1997 Jun;21(2):137–59

Evidence of a predisposing locus to bipolar disorder on Xq24–q27.1 in an extended Finnish pedigree. Pekkarinen P, et al. **Genome Res** 1995 Sep;5(2):105–15

Two–locus admixture linkage analysis of bipolar and unipolar affective disorder supports the presence of susceptibility loci on chromosomes 11p15 and 21q22. Smyth C, et al. **Genomics** 1997 Feb 1;39(3):271–8

Haptoglobin phenotypes and gene frequencies in bipolar disorder: an association study in family–history subgroups [published erratum appears in Hum Hered 1997 May–Jun;47(3):172] Fananás L, et al. **Hum Hered** 1997 Jan–Feb;47(1):27–32

Genetic association between monoamine oxidase A microsatellite and RFLP alleles and bipolar affective disorder: analysis and meta–analysis. Rubinsztein DC, et al. **Hum Mol Genet** 1996 Jun;5(6):779–82

A chromosome 18 genetic linkage study in three large Belgian pedigrees with bipolar disorder. Claes S, et al. **J Affect Disord** 1997 May;43(3):195–205

Dopamine D2, D3 and D4 receptor and transporter gene polymorphisms and mood disorders. Manki H, et al. **J Affect Disord** 1996 Sep 9;40(1–2):7–13

The inheritance of bipolar affective disorder: abundant genes coming together [editorial] Philibert RA, et al. **J Affect Disord** 1997 Mar;43(1):1–3

Linkage studies in bipolar affective disorder with markers on chromosome 21. Vallada H, et al. **J Affect Disord** 1996 Dec 16;41(3):217–21

Psychiatric diagnoses in the child and adolescent members of extended families identified through adult bipolar affective disorder probands. Todd RD, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May; 35(5):664–71

A nongenetic basis of cycle frequency in bipolar disorder: study of a monozygotic twin pair. Sharma V, et al. **J Psychiatry Neurosci** 1997 Mar;22(2):132–5

Genetic linkage and bipolar affective disorder: progress and pitfalls. Baron M. **Mol Psychiatry** 1997 May;2(3):200–10 (76 ref.)

Genetic studies of bipolar disorders: new and recurrent findings [news] Berrettini W. **Mol Psychiatry** 1996 Jul; 1(3):172–3

A novel functional polymorphism within the promoter of the serotonin transporter gene: possible role in susceptibility to affective disorders [see comments] Collier DA, et al. **Mol Psychiatry** 1996 Dec;1(6):453–60. Comment in: Mol Psychiatry 1996 Dec;1(6):434–6.

Increasing the efficiency of genomic searches for linkage in complex disorders by DNA pooling of affected sib–pairs. Craddock N, et al. **Mol Psychiatry** 1996 Mar;1(1):59–64

The human serotonin 7 (5–HT7) receptor gene: genomic organization and systematic mutation screening in schizophrenia and bipolar affective disorder. Erdmann J, et al. **Mol Psychiatry** 1996 Nov;1(5):392–7

Scanning the genome with 1772 microsatellite markers in search of a bipolar disorder susceptibility gene. Polymeropoulos MH, et al. **Mol Psychiatry** 1996 Nov; 1(5):404–7

Frequency analysis of large CAG/CTG trinucleotide repeats in schizophrenia and bipolar affective disorder. Vincent

JB, et al. **Mol Psychiatry** 1996 May;1(2):141–8

Detection of expanded CAG repeats in bipolar affective disorder using the repeat expansion detection (RED) method. Lindblad K, et al. **Neurobiol Dis** 1995 Feb; 2(1):55–62

The serotonin transporter is a potential susceptibility factor for bipolar affective disorder. Collier DA, et al. **Neuroreport** 1996 Jul 8;7(10):1675–9

5–HT2A receptor and bipolar affective disorder: association studies in affected patients. Arranz MJ, et al. **Neurosci Lett** 1997 Mar 14;224(2):95–8

Allelic association analysis of the 5–HT2C receptor gene in bipolar affective disorder. Gutiérrez B, et al. **Neurosci Lett** 1996 Jul 5;212(1):65–7

A complete genome screen for genes predisposing to severe bipolar disorder in two Costa Rican pedigrees. McInnes LA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13060–5

Structure of a variable number tandem repeat of the serotonin transporter gene and association with affective disorder. Battersby S, et al. **Psychiatr Genet** 1996 Winter;6(4):177–81

A linkage study between bipolar disorder and genes involved in dopaminergic and GABAergic neurotransmission. De bruyn A, et al. **Psychiatr Genet** 1996 Summer;6(2):67–73

Association study of a null mutation in the dopamine D4 receptor gene in Italian patients with obsessive–compulsive disorder, bipolar mood disorder and schizophrenia. Di Bella D, et al. **Psychiatr Genet** 1996 Fall;6(3):119–21

No association between particular DRD3 and DAT gene polymorphisms and manic–depressive illness in a Spanish sample. Gómez–Casero E, et al. **Psychiatr Genet** 1996 Winter;6(4):209–12

A genome–wide search for linkage in a large bipolar family: comparison of genotyping accuracy using di– and tetranucleotide repeat microsatellite markers. He L, et al. **Psychiatr Genet** 1996 Fall;6(3):123–9

Association study of bipolar disorder at the phospholipase A2 gene (PLA2A) in the Darier's disease (DAR) region of chromosome 12q23–q24.1. Jacobsen N, et al. **Psychiatr Genet** 1996 Winter;6(4):195–9

Association study between bipolar disorder and candidate genes involved in dopamine–serotonin metabolism and GABAergic neurotransmission: a preliminary report [letter] Oruč L, et al. **Psychiatr Genet** 1996 Winter;6(4):213–7 (40 ref.)

No association between bipolar affective disorder and a serotonin receptor (5–HT2A) polymorphism. Mahieu B, et al. **Psychiatry Res** 1997 May 5;70(2):65–9

Eye–tracking dysfunction in offspring from the New York High–Risk Project: diagnostic specificity and the role of attention. Rosenberg DR, et al. **Psychiatry Res** 1997 Feb 7;66(2–3):121–30

No association between chromosome–18 markers and lithium–responsive affective disorders. Turecki G, et al. **Psychiatry Res** 1996 Jun 26;63(1):17–23

Pre–morbid psychometric profile of subjects at high familial risk for affective disorder. Lauer CJ, et al. **Psychol Med** 1997 Mar;27(2):355–62

Confirmation of association between expanded CAG/CTG repeats and both schizophrenia and bipolar disorder. O'Donovan MC, et al. **Psychol Med** 1996 Nov; 26(6):1145–53

[Response to antidepressive drugs: a useful trait marker for genetic characterization of depressed patients?] Canceil O. **Encephale** 1995 Dec;21 Spec No 4:61–3 **(Fre)**

[Disposition toward mood genes] Guedj F. **Encephale** 1997 Jan;23 Spec No 1:2–6 (33 ref.) (Eng. Abstr.) **(Fre)**

[Genetics of manic depressive disorder] Oruč L, et al. **Med Arh** 1996;50(1–2):45–7 (22 ref.) (Eng. Abstr.) **(Scr)**

HISTORY

"Echoes from a dungeon cell": a doctor's view of his incarceration. Baird PC Jr, et al. **Psychiatr Serv** 1996 Jun; 47(6):581–2

[Emil Kraepelin and bipolar disorder: invention or over–extension?] Géraud M. **Encephale** 1997 Jan;23 Spec No 1:12–9 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Prevalence of antithyroid antibodies in mood disorders. Haggerty JJ Jr, et al. **Depress Anxiety** 1997;5(2):91–6

T–lymphocyte proliferative response to mitogen stimulation in elderly depressed patients. Brambilla F, et al. **J Affect Disord** 1995 Dec 24;36(1–2):51–6

A neuroimmune hypothesis for the aetiopathology of viral illness and manic depression: a case report of an adolescent. Pavuluri MN, et al. **J Affect Disord** 1996 Jun 20;39(1):7–11

1st Symposium on the Neurovirology and Neuroimmunology of Schizophrenia and Bipolar Disorder. Baltimore, Maryland, November 3–4, 1995. Abstracts. **J Neurovirol** 1996 Jun;2(3):195–223

METABOLISM

Reduced frontal cortex inositol levels in postmortem brain of suicide victims and patients with bipolar disorder. Shimon H, et al. **Am J Psychiatry** 1997 Aug;154(8):1148–50

Increased G alpha q/11 immunoreactivity in postmortem occipital cortex from patients with bipolar affective disorder. Mathews R, et al. **Biol Psychiatry** 1997 Mar 15; 41(6):649–56

Stimulatory G–protein alpha–subunit mRNA levels are not increased in autopsied cerebral cortex from patients with bipolar disorder. Young LT, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):45–50

Quantification of neuroreceptors in the living human brain: IV. Effect of aging and elevations of D2–like receptors in schizophrenia and bipolar illness. Wong WF, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):331–42

Reduced [3H]cyclic AMP binding in postmortem brain from subjects with bipolar affective disorder. Rahman S, et al. **J Neurochem** 1997 Jan;68(1):297–304

Renal reactions to changes of lithium dosage. Kusalic M, et al. **Neuropsychobiology** 1996;34(3):113–6

Benzodiazepine binding inhibitory activity: new supportive findings on its presence in psychiatric patients and further biochemical analyses. Marazziti D, et al. **Neuropsychobiology** 1996;34(1):9–13

Low rate of membrane lithium transport during treatment correlates with outcome of maintenance pharmacotherapy in bipolar disorder. Mallinger AG, et al. **Neuropsychopharmacology** 1997 May;16(5):325–32

MORTALITY

Mortality of patients who dropped out from regular lithium prophylaxis: a collaborative study by the International Group for the Study of Lithium–treated patients (IGSLI). Müller–Oerlinghausen B, et al. **Acta Psychiatr Scand** 1996 Nov;94(5):344–7

How to interpret findings on mortality of long–term lithium treated manic–depressive patients?! Critique of different methodological approaches. Wolf T, et al. **J Affect Disord** 1996 Jul 8;39(2):127–32

[Suicidal risk in bipolar disorders] Bourgeois ML, et al. **Encephale** 1997 Jan;23 Spec No 1:35–41 (30 ref.) (Eng. Abstr.) **(Fre)**

PATHOLOGY

Neuropsychology. Towards a neuropathology of emotion and mood [news; comment] Damasio AR. **Nature** 1997 Apr 24;386(6627):769–70. Comment on: Nature 1997 Apr 24;386(6627):824–7.

Subgenual prefrontal cortex abnormalities in mood disorders [see comments] Drevets WC, et al. **Nature** 1997 Apr 24; 386(6627):824–7. Comment in: Nature 1997 Apr 24;386(6627):769–70.

PHYSIOPATHOLOGY

Psychosocial predictors of major affective recurrences in bipolar disorder: a 4–year longitudinal study of patients on prophylactic treatment. Stefos G, et al. **Acta Psychiatr Scand** 1996 Jun;93(6):420–6

Bipolar disorders, dystonia, and compulsion after dysfunction of the cerebellum, dentatorubrothalamic tract, and substantia nigra. Lauterbach EC. **Biol Psychiatry** 1996 Oct 15;40(8):726–30 (65 ref.)

Salivary and plasma measures of dim light melatonin onset (DLMO) in patients with rapid cycling bipolar disorder. Leibenluft E, et al. **Biol Psychiatry** 1996 Oct 15;40(8):731–5

The anatomy of mood disorders—review of structural neuroimaging studies. Soares JC, et al. **Biol Psychiatry** 1997 Jan 1;41(1):86–106 (190 ref.)

Lithium and male sexual function in affective patients. Aizenberg D, et al. **Clin Neuropharmacol** 1996 Dec; 19(6):515–9

Differential features between bipolar I and bipolar II disorder. Vieta E, et al. **Compr Psychiatry** 1997 Mar–Apr; 38(2):98–101

Nuclear magnetic resonance spectroscopy: new insights into the pathophysiology of mood disorders. Soares JC, et al. **Depression** 1996;4(1):14–30 (165 ref.)

Nonverbal interactional behavior in the families of persons with schizophrenic and bipolar disorders. Simoneau TL, et al. **Fam Process** 1996 Mar;35(1):83–102

Dreaming away depression: the role of REM sleep and dreaming in affective disorders. Beauchemin KM, et al. **J Affect Disord** 1996 Nov 25;41(2):125–33

ECG intervals in acute bipolar and schizophrenic relapse. el–Mallakh RS, et al. **J Ky Med Assoc** 1996 Dec; 94(12):526–8

Poststroke bipolar affective disorder: clinical subtypes, concurrent movement disorders, and anatomical correlates. Berthier ML, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):160–7

Nerve conduction velocity and H–reflex recovery in bipolar illness. el–Mallakh RS, et al. **J Neuropsychiatry Clin Neurosci** 1996 Fall;8(4):412–6

REM sleep in depressed patients: different attempts to achieve adaptation. Rotenberg VS, et al. **J Psychosom Res** 1997 Jun;42(6):565–75

Comparative studies of the biological distinction between unipolar and bipolar depressions. Yatham LN, et al. **Life Sci** 1997;61(15):1445–55 (124 ref.)

The alpha rhythm in the electroencephalogram: a theory based on a neurophysiological model. Johannisson T, et al. **Med Hypotheses** 1996 Jun;46(6):557–61

Dopamine agonist amineptine prevents the antidepressant effect of sleep deprivation. Benedetti F, et al. **Psychiatry Res** 1996 Dec 20;65(3):179–84

Neuroendocrine and sleep variables in major depressed inpatients: role of severity. Hubain P, et al. **Psychiatry Res** 1996 Jun 26;63(1):83–92

Differences in thyroid function studies in acutely manic adolescents with and without attention deficity hyperactivity disorder (ADHD). West SA, et al. **Psychopharmacol Bull** 1996;32(1):63–6

Attentional vulnerability indicators in schizophrenia and bipolar disorder. Addington J, et al. **Schizophr Res** 1997 Feb 28;23(3):197–204

PREVENTION & CONTROL

Reduced morbidity after gradual discontinuation of lithium treatment for bipolar I and II disorders: a replication study. Baldessarini RJ, et al. **Am J Psychiatry** 1997 Apr; 154(4):551–3

Valproate prophylaxis in a prospective clinical trial of refractory bipolar disorder. Denicoff KD, et al. **Am J Psychiatry** 1997 Oct;154(10):1456–8

Effectiveness of restarting lithium treatment after its discontinuation in bipolar I and bipolar II disorders. Tondo L, et al. **Am J Psychiatry** 1997 Apr;154(4):548–50

Current therapeutic profile of lithium [comment] Gershon S, et al. **Arch Gen Psychiatry** 1997 Jan;54(1):16–20 (94 ref.) . Comment on: Arch Gen Psychiatry 1997 Jan;54(1):9–13; discussion 14–5.

Unanswered questions, unknown future for one of our oldest medications [comment] Gitlin MJ, et al. **Arch Gen Psychiatry** 1997 Jan;54(1):21–3 (30 ref.). Comment on: Arch Gen Psychiatry 1997 Jan;54(1):9–13; discussion 14–5.

Forty years of lithium treatment [see comments] Schou M. **Arch Gen Psychiatry** 1997 Jan;54(1):9–13; discussion 14–5 (42 ref.). Comment in: Arch Gen Psychiatry 1997 Jan;54(1):16–20. Comment in: Arch Gen Psychiatry 1997 Jan;54(1):21–3.

Effects of the rate of discontinuing lithium maintenance treatment in bipolar disorders. Baldessarini RJ, et al. **J Clin Psychiatry** 1996 Oct;57(10):441–8

Myristoylated alanine–rich C kinase substrate (MARCKS): a molecular target for the therapeutic action of mood stabilizers in the brain? Lenox RH, et al. **J Clin Psychiatry** 1996;57 Suppl 13:23–31; discussion 32–3

A pilot study of lithium carbonate plus divalproex sodium for the continuation and maintenance treatment of patients with bipolar I disorder. Solomon DA, et al. **J Clin Psychiatry** 1997 Mar;58(3):95–9

[Results of long–term (over 10 years) lithium therapy] Beręsewicz M. **Psychiatr Pol** 1996 Jul–Aug;30(4):583–91 (Eng. Abstr.) **(Pol)**

PSYCHOLOGY

A consumer perspective on the family agenda. Fox L. **Am J Orthopsychiatry** 1997 Apr;67(2):249–53

Stress reactivity in bipolar patients and its relation to prior history of disorder. Hammen C, et al. **Am J Psychiatry** 1997 Jun;154(6):856–7

Deteriorated affective disorder a rarity? [letter; comment] Köhler S. **Am J Psychiatry** 1997 Mar;154(3):442–3. Comment on: Am J Psychiatry 1996 Feb;153(2):248–55.

Psychosis and etiology [letter; comment] Trémeau F, et al. **Am J Psychiatry** 1997 Jan;154(1):132–4. Comment on: Am J Psychiatry 1995 Oct;152(10):1458–63.

Lifetime rates of suicide attempts among subjects with bipolar and unipolar disorders relative to subjects with other Axis I disorders. Chen YW, et al. **Biol Psychiatry** 1996 May 15;39(10):896–9

Comparative evaluation of two self–report Mania Rating Scales. Cooke RG, et al. **Biol Psychiatry** 1996 Aug 15; 40(4):279–83

Inducing lifestyle regularity in recovering bipolar disorder patients: results from the maintenance therapies in bipolar disorder protocol. Frank E, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1165–73

Symptom severity and cognitive impairment in chronically hospitalised geriatric patients with affective disorders. Harvey PD, et al. **Br J Psychiatry** 1997 Apr;170:369–74

Ultra–rapid and ultradian cycling in bipolar affective illness [see comments] Kramlinger KG, et al. **Br J Psychiatry** 1996 Mar;168(3):314–23. Comment in: Br J Psychiatry 1996 Jul;169(1):115.

Ultra–rapid mood cycling [letter; comment] Littlejohns CS. **Br J Psychiatry** 1996 Jul;169(1):115. Comment on: Br J Psychiatry 1996 Mar;168(3):314–23.

AIDS knowledge and high–risk behaviour in the chronic mentally ill [see comments] Chuang HT, et al. **Can J Psychiatry** 1996 Jun;41(5):269–72. Comment in: Can J Psychiatry 1996 Nov;41(9):603.

Re: Dr Penney Page's letter [letter] Myers MF. **Can J Psychiatry** 1996 Oct;41(8):536

Adolescent bipolar disorder complicated by cultural factors: a case report [letter] White W, et al. **Can J Psychiatry** 1996 Nov;41(9):603–4

Premorbid personality aspects in mood and schizophrenic disorders. Heerlein A, et al. **Compr Psychiatry** 1996 Nov–Dec;37(6):430–4

Prodromal and residual symptoms in bipolar I disorder. Keitner GI, et al. **Compr Psychiatry** 1996 Sep–Oct; 37(5):362–7

Information seeking among people with manic–depressive illness. Pollack LE. **Image J Nurs Sch** 1996 Fall; 28(3):259–65

Self–sensuality in fantasy: reflections on early development based on a case history. Tizón JL. **Int J Psychoanal** 1997 Apr;78 (Pt 2):307–25

BIPOLAR DISORDER

Suicide attempts, age and duration of illness in recurrent affective disorders. Ahrens B, et al. **J Affect Disord** 1995 Dec 24;36(1–2):43–9

Predictors of service utilization in veterans with bipolar disorder: a prospective study. Bauer MS, et al. **J Affect Disord** 1997 Jul;44(2–3):159–68

A chromosome 18 genetic linkage study in three large Belgian pedigrees with bipolar disorder. Claes S, et al. **J Affect Disord** 1997 May;43(3):195–205

Criminal behavior in males with affective disorders. Modestin J, et al. **J Affect Disord** 1997 Jan;42(1):29–38

Diurnal variation in the direction of mood switches in patients with rapid–cycling bipolar disorder. Feldman–Naim S, et al. **J Clin Psychiatry** 1997 Feb; 58(2):79–84

Akathisia as violence [letter] Galynker II, et al. **J Clin Psychiatry** 1997 Jan;58(1):31–2

Reply to letter from Swartz on "Mania and lower serum cholesterol levels [letter] Callahan AM, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):95–7

Suspected complication of treatment with venlafaxine [letter] Wilson R, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):323

Multiple sclerosis and bipolar disorder: a case report with autopsy findings. Casanova MF, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):206–8

Cognition, negative symptoms, and diagnosis: a comparison of schizophrenic, bipolar, and control samples. Hawkins KA, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter; 9(1):81–9

My role as a consumer–provider: challenges and opportunities. Francell EG Jr. **J Psychosoc Nurs Ment Health Serv** 1996 Sep;34(9):29–31

Inpatients with bipolar disorder: their quest to understand. Pollack LE. **J Psychosoc Nurs Ment Health Serv** 1996 Jun; 34(6):19–24

Personal accounts. Where do I fit in? Clevenger TD. **Psychiatr Serv** 1997 Aug;48(8):1007–8

Family burden of schizophrenia and bipolar disorder: perceptions of relatives and professionals. Mueser KT, et al. **Psychiatr Serv** 1996 May;47(5):507–11

Psychiatric survivors and nonsurvivors [editorial] [see comments] Torrey EF. **Psychiatr Serv** 1997 Feb;48(2):143 . Comment in: Psychiatr Serv 1997 May;48(5):601; discussion 605. Comment in: Psychiatr Serv 1997 May;48(5):601–2; discussion 605. Comment in: Psychiatr Serv 1997 May;48(5):602; discussion 605. Comment in: Psychiatr Serv 1997 May;48(5):602–3; discussion 605. Comment in: Psychiatr Serv 1997 May;48(5):603; discussion 605. Comment in: Psychiatr Serv 1997 May;48(5):603–4; discussion 605. Comment in: Psychiatr Serv 1997 May;48(5):604–5; discussion 605. Comment in: Psychiatr Serv 1997 May;48(5):605; discussion 605.

Lymphoblastoid transmembrane potential in bipolar patients, their siblings, and unrelated healthy comparison subjects. Buss TJ, et al. **Psychiatry Res** 1996 Jan 31;59(3):197–201

Neuropsychological aspects of lack of insight in bipolar disorder: a preliminary report. Ghaemi SN, et al. **Psychiatry Res** 1996 Nov 15;65(2):113–20

Relationship between sleep and mood in patients with rapid–cycling bipolar disorder. Leibenluft E, et al. **Psychiatry Res** 1996 Jul 31;63(2–3):161–8

Clinical and psychosocial predictors of recurrence in recovered bipolar and unipolar depressives: a one–year controlled prospective study. Staner L, et al. **Psychiatry Res** 1997 Mar 3;69(1):39–51

The Understanding Mood Disorders Questionnaire. Gavazzi SM, et al. **Psychol Rep** 1997 Aug;81(1):172–4

CADASIL presenting as bipolar disorder [letter] Kumar SK, et al. **Psychosomatics** 1997 Jul–Aug;38(4):397–8

Communication patterns and expressed emotion in families of persons with mental disorders. Wuerker AM. **Schizophr Bull** 1996;22(4):671–90

Spatial selective attention in schizophrenic, affective disorder, and normal subjects. Sereno AB, et al. **Schizophr Res** 1996 May;20(1–2):33–50

Samantha Morrisey: suicide and the need for support. Maltsberger JT. **Suicide Life Threat Behav** 1995 Winter; 25(4):519–25

[Mania in an elderly subject: I. — manic–depressive disorders of late onset] Mahé V, et al. **Ann Med Psychol (Paris)** 1996 Jun;154(4):217–25 (25 ref.) (Eng. Abstr.) **(Fre)**

[Mania in an elderly subject: II. — the evolution of manic–depressive disease] Mahé V, et al. **Ann Med Psychol (Paris)** 1996 Jun;154(4):226–31 (Eng. Abstr.) **(Fre)**

[Manic–depressive psychoses in adolescence. Influence of life change events. Study of family dynamics] Corcos M, et al. **Encephale** 1996 Sep–Oct;22(5):368–77 (Eng. Abstr.) **(Fre)**

[Psychological factors and life change events in bipolar patients] Hardy–Baylé MC. **Encephale** 1997 Jan;23 Spec No 1:20–6 (45 ref.) (Eng. Abstr.) **(Fre)**

[Psychopathological study on lying motive—specific mood of depersonalization in manic depression] Otsuka K. **Seishin Shinkeigaku Zasshi** 1997;99(1):1–22 **(Jpn)**

[Demographic and clinical features of patients with the change from depressive phase to manic phase and without change in the course of bipolar affective disorder] Koszewska I. **Psychiatr Pol** 1995 Nov–Dec;29(6):783–800 (Eng. Abstr.) **(Pol)**

[New psychopathological concepts of personality in patients with manic–depressive psychosis] Kraus A. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(6):70–6 **(Rus)**

RADIONUCLIDE IMAGING

I–123 iofetamine single–photon computed emission tomography in rapid cycling bipolar disorder: a clinical study. Gyulai L, et al. **Biol Psychiatry** 1997 Jan 15; 41(2):152–61

Hypoperfusion in the limbic system and prefrontal cortex in depression: SPECT with anatomic standardization technique [see comments] Ito H, et al. **J Nucl Med** 1996 Mar;37(3):410–4. Comment in: J Nucl Med 1997 May;38(5):828–9.

REHABILITATION

Premorbid and postmorbid school functioning in bipolar adolescents: description and suggested academic interventions. Quackenbush D, et al. **Can J Psychiatry** 1996 Feb;41(1):16–22

Sunny hospital rooms expedite recovery from severe and refractory depressions. Beauchemin KM, et al. **J Affect Disord** 1996 Sep 9;40(1–2):49–51

A saving grace. Pilvin B. **Psychiatr Serv** 1996 Oct; 47(10):1051–2

Ten–year use of hospital–based services by geriatric veterans with schizophrenia and bipolar disorder. Sajatovic M, et al. **Psychiatr Serv** 1996 Sep;47(9):961–5

[Role of associations in bipolar patients] Attar–Lévy D, et al. **Encephale** 1997 Jan;23 Spec No 1:42–8 (16 ref.) (Eng. Abstr.) **(Fre)**

THERAPY

Expert consensus guidelines are released for the treatment of bipolar disorder. American Psychiatric Association. **Am Fam Physician** 1997 Mar;55(4):1447–9

Diagnosis, treatment, and six–month outcome status in first–admission psychosis. Craig TJ, et al. **Ann Clin Psychiatry** 1997 Jun;9(2):89–97

Combined valproate or carbamazepine and electroconvulsive therapy. Zarate CA Jr, et al. **Ann Clin Psychiatry** 1997 Mar;9(1):19–25

Inducing lifestyle regularity in recovering bipolar disorder patients: results from the maintenance therapies in bipolar disorder protocol. Frank E, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1165–73

No early effects of electroconvulsive therapy on tryptophan metabolism and disposition in endogenous depression. Mokhtar AS, et al. **Biol Psychiatry** 1997 Aug 1;42(3):201–5

Negative interaction between lithium and electroconvulsive therapy—a case–control study [see comments] Jha AK, et al. **Br J Psychiatry** 1996 Feb;168(2):241–3. Comment in: Br J Psychiatry 1996 Dec;169(6):794.

Use of electroconvulsive therapy in adolescents. Cohen D, et al. **Convuls Ther** 1997 Mar;13(1):25–31

Bipolar depression: an underestimated treatment challenge. Hlastala SA, et al. **Depress Anxiety** 1997;5(2):73–83

Long–term treatment of bipolar disorder [letter; comment] Osher Y. **Drugs** 1997 Apr;53(4):726. Comment on: Drugs 1996 Mar;51(3):367–82.

"Normal' P300 amplitude predicts rapid response to ECT in melancholia. Ancy J, et al. **J Affect Disord** 1996 Dec 16;41(3):211–5

Strategies for managing depression complicated by bipolar disorder, suicidal ideation, or psychotic features. Hartmann PM. **J Am Board Fam Pract** 1996 Jul–Aug;9(4):261–9 (69 ref.)

The Expert Consensus Guideline Series. Treatment of bipolar disorder. Steering Committee.American Psychiatric Association. **J Clin Psychiatry** 1996;57 Suppl 12a:3–88

Novel alternatives and supplements to lithium and anticonvulsants for bipolar affective disorder. Dubovsky SL, et al. **J Clin Psychiatry** 1997 May;58(5):224–42; quiz 243–4 (221 ref.)

Impact of an easy–access VA clinic–based program for patients with bipolar disorder. Bauer MS, et al. **Psychiatr Serv** 1997 Apr;48(4):491–6

The effectiveness of outpatient civil commitment. Munetz MR, et al. **Psychiatr Serv** 1996 Nov;47(11):1251–3

Light therapy in patients with rapid cycling bipolar disorder: preliminary results. Leibenluft E, et al. **Psychopharmacol Bull** 1995;31(4):705–10

New psychosocial treatments for the outpatient management of bipolar disorder. Miklowitz DJ, et al. **Psychopharmacol Bull** 1996;32(4):613–21

[Indications for electroconvulsive therapy] Boiteux J, et al. **Encephale** 1997 Jun;23 Spec No 3:21–6 (27 ref.) (Eng. Abstr.) **(Fre)**

[Treatment of bipolar depression] Krebs MO. **Encephale** 1996 Dec;22 Spec No 7:52–6 **(Fre)**

[Phototherapy and lithium prophylaxis] Heim M, et al. **Psychiatr Prax** 1997 Jul;24(4):196–7 (Eng. Abstr.) **(Ger)**

URINE

Nocturnal melatonin and 24–hour 6–sulphatoxymelatonin levels in various phases of bipolar affective disorder. Kennedy SH, et al. **Psychiatry Res** 1996 Jul 31; 63(2–3):219–22

VIROLOGY

1st Symposium on the Neurovirology and Neuroimmunology of Schizophrenia and Bipolar Disorder. Baltimore, Maryland, November 3–4, 1995. Abstracts. **J Neurovirol** 1996 Jun;2(3):195–223

Borna disease virus in brains of North American and European people with schizophrenia and bipolar disorder. Bornavirus Study Group [letter] [see comments] Salvatore M, et al. **Lancet** 1997 Jun 21;349(9068):1813–4. Comment in: Lancet 1997 Aug 23;350(9077):592–3. Comment in: Lancet 1997 Aug 23;350(9077):593.

Simian cytomegalovirus–related stealth virus isolated from the cerebrospinal fluid of a patient with bipolar psychosis and acute encephalopathy. Martin WJ. **Pathobiology** 1996; 64(2):64–6

2,2–BIPYRIDINE see **2,2'–DIPYRIDYL**

BIPYRIDYL see **2,2'–DIPYRIDYL**

BIRD DISEASES

Histomorphometric and angiographic analysis of bone healing in the humerus of pigeons. West PG, et al. **Am J Vet Res** 1996 Jul;57(7):1010–5

Quantitative image analysis as an alternative to chemical analysis for follow–up of liver biopsies from a toucan with hemochromatosis. A technique with potential value for the follow–up of hemochromatosis in humans. Roels S, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):221–4

Fatal avian polyomavirus infection during quarantine in adult wild–caught red–faced lovebirds (Agapornis pullaria). Enders F, et al. **Avian Dis** 1997 Apr–Jun;41(2):496–8

Development of a chicken model for studying avian polyomavirus infection. Fitzgerald SD, et al. **Avian Dis** 1996 Apr–Jun;40(2):377–81

Multiple intussusceptions in a juvenile rhea (Rhea americana) with proventricular impaction. Frasca S Jr, et al. **Avian Dis** 1997 Apr–Jun;41(2):475–80

Chlamydiosis in captive white–winged doves (Zenaida asiatica). Grimes JE, et al. **Avian Dis** 1997 Apr–Jun; 41(2):505–8

Necrotizing hepatitis in pet birds associated with Pseudomonas fluorescens. Jackson MK, et al. **Avian Dis** 1996 Apr–Jun;40(2):473–6

Variations in response of four lines of ring–necked pheasants to infection with marble spleen disease virus. Kunze LS, et al. **Avian Dis** 1996 Apr–Jun;40(2):306–11

Mycoplasma gallisepticum isolated from house finches (Carpodacus mexicanus) with conjunctivitis. Ley DH, et al. **Avian Dis** 1996 Apr–Jun;40(2):480–3

Field investigation of Mycoplasma gallisepticum infections in house finches (Carpodacus mexicanus) from Maryland and Georgia. Luttrell MP, et al. **Avian Dis** 1996 Apr–Jun; 40(2):335–41

Experimental reproduction of Mycoplasma gallisepticum disease in chukar partridges (Alectoris graeca). McMartin DA, et al. **Avian Dis** 1996 Apr–Jun;40(2):408–16

Lesions associated with Pasteurella multocida infection in raptors. Morishita TY, et al. **Avian Dis** 1997 Jan–Mar; 41(1):203–13

Debilitating cutaneous poxvirus infection in a Hodgson's grandala (Grandala coelicolor). Orós J, et al. **Avian Dis** 1997 Apr–Jun;41(2):481–3

Lymphosarcoma with plasmacytoid differentiation in a scarlet macaw (Ara macao). Ramos–Vara JA, et al. **Avian Dis** 1997 Apr–Jun;41(2):499–504

Surgical correction of ileus in a blue–and–gold macaw (Ara ararauna). van der Horst H, et al. **Avian Dis** 1996 Apr–Jun; 40(2):484–7

Prevalent diseases of ostrich chicks farmed in Canada. Samson J. **Can Vet J** 1997 Jul;38(7):425–8 (15 ref.)

Identification of parvovirus–like particles associated with three outbreaks of mortality in young pheasants (Phasianus colchicus). Gelmetti D, et al. **J Vet Diagn Invest** 1996 Jan; 8(1):108–12

Histologic evaluation of the crop for diagnosis of proventricular dilatation syndrome in psittacine birds. Gregory CR, et al. **J Vet Diagn Invest** 1996 Jan;8(1):76–80

Diagnostic serologic testing of cage and aviary birds for chlamydiosis and suggested confirmatory testing. Grimes JE, et al. **J Vet Diagn Invest** 1996 Jan;8(1):38–44

Metastatic renal carcinoma in an African grey parrot (Psittacus erithacus erithacus). Latimer KS, et al. **J Vet Diagn Invest** 1996 Apr;8(2):261–4

Immunohistochemical diagnosis of eastern equine encephalomyelitis. Patterson JS, et al. **J Vet Diagn Invest** 1996 Apr;8(2):156–60

Tetratrichomonas gallinarum encephalitis in a mockingbird (Mimus polyglottos). Patton CS, et al. **J Vet Diagn Invest** 1996 Jan;8(1):133–7

Acute clostridial hepatitis in an ostrich. Poonacha KB, et al. **J Vet Diagn Invest** 1997 Apr;9(2):208–10

Infectivity of Salmonella typhimurium isolated from the bengalee to chickens. Sato Y, et al. **J Vet Med Sci** 1996 Jun;58(6):543–6

Diagnosis of proliferative enteritis in frozen and formalin–fixed, paraffin–embedded tissues from a hamster, horse, deer and ostrich using a Lawsonia intracellularis–specific multiplex PCR assay. Cooper DM, et al. **Vet Microbiol** 1997 Jan;54(1):47–62

Detection of Chlamydia psittaci DNA in avian clinical

samples by polymerase chain reaction. Hewinson RG, et al. **Vet Microbiol** 1997 Feb;54(2):155–66

Secreted antigens as virulence associated markers in Streptococcus bovis strains from pigeons. Vanrobaeys M, et al. **Vet Microbiol** 1996 Dec;53(3–4):339–48

[Animal nutrition in veterinary medicine—actual case reports. Nutritionally related disturbences in bone development in emus and rheas] Wolf P, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec;103(12):519–22 (Eng. Abstr.) **(Ger)**

[Polyostotic hyperostosis in a plum-headed parakeet (Psittacula cyanocephala L., 1766] Kostka VM, et al. **Tierarztl Prax** 1996 Feb;24(1):36–40 (Eng. Abstr.) **(Ger)**

[Circovirus infections in pigeons] Soike D. **Tierarztl Prax** 1997 Jan;25(1):52–4 (15 ref.) (Eng. Abstr.) **(Ger)**

CHEMICALLY INDUCED

Fenthion poisoning of native birds in southern Queensland. McKenzie RA, et al. **Aust Vet J** 1996 Oct;74(4):321–3

Aquatic pollution-induced immunotoxicity in wildlife species. Luebke RW, et al. **Fundam Appl Toxicol** 1997 May; 37(1):1–15

Diagnostic criteria for selenium toxicosis in aquatic birds: dietary exposure, tissue concentrations, and macroscopic effects. Albers PH, et al. **J Wildl Dis** 1996 Jul;32(3):468–85

Winter poisoning of coyotes and raptors with Furadan-laced carcass baits. Allen GT, et al. **J Wildl Dis** 1996 Apr; 32(2):385–9

Further studies of brain cholinesterase: cholinergic receptor ratios in the diagnosis of acute lethal poisoning of birds by anticholinesterase pesticides. Burn JD, et al. **J Wildl Dis** 1996 Apr;32(2):216–24

Poisoning of bald eagles and red-tailed hawks by carbofuran and fensulfothion in the Fraser Delta of British Columbia, Canada. Elliott JE, et al. **J Wildl Dis** 1996 Jul;32(3):486–91

Fluoride exposure and selected characteristics of eggs and bones of the herring gull (Larus argentatus) and the common gull (Larus canus). Vikøren T, et al. **J Wildl Dis** 1996 Apr;32(2):190–8

Hemolytic anemia in wild seaducks caused by marine oil pollution. Yamato O, et al. **J Wildl Dis** 1996 Apr; 32(2):381–4

Sea bird mortality at Cabo San Lucas, Mexico: evidence that toxic diatom blooms are spreading. Sierra Beltrán A, et al. **Toxicon** 1997 Mar;35(3):447–53

Pesticide poisoning of animals of wild fauna. Antoniou V, et al. **Vet Hum Toxicol** 1996 Jun;38(3):212–3

Experimentally induced selenosis of adult mallard ducks: clinical signs, lesions, and toxicology. O'Toole D, et al. **Vet Pathol** 1997 Jul;34(4):330–40

PTFE toxicity in birds [letter] Forbes NA, et al. **Vet Rec** 1997 May 10;140(19):512

DIAGNOSIS

Towards the routine application of nucleic acid technology for avian disease diagnosis. Cavanagh D, et al. **Acta Vet Hung** 1997;45(3):281–98 (37 ref.)

Osteosarcoma in an American robin (Turdus migratorius). Hartup BK, et al. **Avian Dis** 1996 Oct–Dec;40(4):938–40

Cutaneous avian pox in a house sparrow. Mikaelian I, et al. **Can Vet J** 1996 Jul;37(7):434

Usefulness and limitations of three serologic methods for diagnosing or excluding chlamydiosis in birds. Grimes JE, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):747–50

Serological survey for avian viruses in houbara bustards (Chlamydotis undulata macqueenii). Bailey TA, et al. **Vet Rec** 1996 Sep 7;139(10):238–9

Monensin toxicity in a flock of ostriches. Baird GJ, et al. **Vet Rec** 1997 Jun 14;140(24):624–6

Acute inhalant toxicoses of cagebirds [letter] Duff P. **Vet Rec** 1997 Jul 26;141(4):107

Isolation and identification of adenoviruses from ostriches (Struthio camelus). Gough RE, et al. **Vet Rec** 1997 Apr 12;140(15):402–3

Lead poisoning in a free ranging griffon vulture (Gyps fulvus). Mateo R, et al. **Vet Rec** 1997 Jan 11;140(2):47–8

Ataxia in pheasants [letter; comment] Pennycott TW. **Vet Rec** 1997 Mar 22;140(12):320. Comment on: Vet Rec 1997 Feb 22;140(8):211.

[What is your diagnosis? Psittacine beak and feather disease] Rippinger P, et al. **Schweiz Arch Tierheilkd** 1996; 138(6):319–22 **(Ger)**

DRUG THERAPY

Pharmacokinetics and anti-trichomonal efficacy of a dimetridazole tablet and water-soluble powder in homing pigeons (Columba livia). Inghelbrecht S, et al. **J Vet Pharmacol Ther** 1996 Feb;19(1):62–7

Anthelmintic efficacy of ivermectin against Syngamus trachea and Capillaria spp. in pheasant. Lamka J, et al. **Vet Med (Praha)** 1997 Jun;42(6):157–60

Use of dimetridazole in gamebirds [letter; comment] Dalton P. **Vet Rec** 1996 Oct 19;139(16):399. Comment on: Vet Rec 1996 Aug 31;139(9):214–5.

Effect of four therapeutic agents on Trichomonas phasiani carriage in pheasants [see comments] Pennycott TW. **Vet Rec** 1996 Aug 31;139(9):214–5. Comment in: Vet Rec 1996 Oct 19;139(16):399.

EPIDEMIOLOGY

Pasteurella multocida in psittacines: prevalence, pathology, and characterization of isolates. Morishita TY, et al. **Avian Dis** 1996 Oct–Dec;40(4):900–7

Pasteurella multocida in raptors: prevalence and characterization. Morishita TY, et al. **Avian Dis** 1996 Oct–Dec;40(4):908–18

An occurrence of avian tuberculosis in hooded merganser (Lophodytes cucullatus). Sato Y, et al. **Avian Dis** 1996 Oct–Dec;40(4):941–4

Comparison of Newcastle disease viruses isolated from cormorants in Canada and the USA in 1975, 1990 and 1992. Heckert RA, et al. **Can J Vet Res** 1996 Jan;60(1):50–4

Salmonella infection in wild birds from Quebec. Mikaelian I, et al. **Can Vet J** 1997 Jun;38(6):385

Mycoplasmal conjunctivitis in wild songbirds: the spread of a new contagious disease in a mobile host population. Fischer JR, et al. **Emerg Infect Dis** 1997 Jan–Mar;3(1):69–72

Molecular epidemiologic investigations of Mycoplasma gallisepticum conjunctivitis in songbirds by random amplified polymorphic DNA analyses. Ley DH, et al. **Emerg Infect Dis** 1997 Jul–Sep;3(3):375–80

Infectivity and persistence of Salmonella Typhimurium for zebra finches (Poephila guttata) isolated from the same species. Sato Y, et al. **J Vet Med Sci** 1996 Sep;58(9):845–8

Renal coccidiosis and other parasitologic conditions in lesser snow goose goslings at Tha-anne River, west coast Hudson Bay. Gomis S, et al. **J Wildl Dis** 1996 Jul;32(3):498–504

Exposure of wild waterfowl to Mycoplasma anatis. Samuel MD, et al. **J Wildl Dis** 1996 Apr;32(2):331–7

Incidence and risk factors for bumblefoot (pododermatitis) in rehabilitated raptors. Rodriguez-Lainz AJ, et al. **Prev Vet Med** 1997 Aug;31(3–4):175–84

Botulism in waterfowl. Bongers JH, et al. **Vet Q** 1996;18 Suppl 3:S156–7 (6 ref.)

Calcium deficiency in wild birds. Graveland J. **Vet Q** 1996; 18 Suppl 3:S136–7 (8 ref.)

Megabacteria in diseased and healthy budgerigars. Baker JR. **Vet Rec** 1997 Jun 14;140(24):627

Causes of mortality and morbidity in exhibition budgerigars in the United Kingdom. Baker JR. **Vet Rec** 1996 Aug 17; 139(7):156–62

Survey of feather diseases of exhibition budgerigars in the United Kingdom [see comments] Baker JR. **Vet Rec** 1996 Dec 14;139(24):590–4. Comment in: Vet Rec 1997 Feb 22;140(8):212.

Observations on the helminths of harbour porpoises (Phocoena phocoena) and common guillemots (Uria aalge) from the Belgian and German coasts. Brosens L, et al. **Vet Rec** 1996 Sep 14;139(11):254–7

An outbreak of Pacheco's parrot disease in psittacine birds recently imported to Campania, Italy: isolation of psittacid herpesvirus 2. Magnino S, et al. **Zentralbl Veterinarmed [B]** 1996 Dec;43(10):631–7

An epornitic of avian pox in houbara bustards (Chlamydotis undulata macqueenii). Samour JH, et al. **Zentralbl Veterinarmed [B]** 1996 Jul;43(5):287–92

ETIOLOGY

Heart failure in a macaw with atherosclerosis of the aorta and brachiocephalic arteries. Phalen DN, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1435–40

Husbandry practices employed by private aviculturists, bird markets and zoo collections, which may be conducive to fostering infectious diseases. Wolff PL. **Rev Sci Tech** 1996 Mar;15(1):55–71 (60 ref.)

Hypophosphataemic rickets and nephrocalcinosis in ostrich chicks brooded and reared on limestone sand. Morrow CJ, et al. **Vet Rec** 1997 May 17;140(20):531–2

Ataxia in pheasants [letter; comment] Pennycott TW. **Vet Rec** 1997 Mar 22;140(12):320. Comment on: Vet Rec 1997 Feb 22;140(8):211.

GENETICS

[Pain caused by breeding: definition, judgment, pathogenesis] Herzog A. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb; 104(2):71–4 (Eng. Abstr.) **(Ger)**

[Continuous proliferation of supporting cells and indications for hair cell differentiation in the inner ear of adult song birds with genetic cochlear hearing loss] Gleich O, et al. **HNO** 1996 Jun;44(6):307–12 (Eng. Abstr.) **(Ger)**

METABOLISM

Unusual gangliosidosis in emu (Dromaius novaehollandiae). Freischutz B, et al. **J Neurochem** 1997 May;68(5):2070–8

[Endocrinologic and pathologic findings in ornamental birds with polyostotic hyperostosis] Baumgartner R, et al. **Schweiz Arch Tierheilkd** 1996;138(12):591–5 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Development of a method for the identification, using the polymerase chain reaction, of Aspergillus fumigatus isolated from ostriches. Katz ME, et al. **Aust Vet J** 1996 Jul;74(1):50–4

Molecular epidemiologic investigations of Mycoplasma gallisepticum conjunctivitis in songbirds by random amplified polymorphic DNA analyses. Ley DH, et al. **Emerg Infect Dis** 1997 Jul–Sep;3(3):375–80

Comparison of the 16S ribosomal DNA sequences from the intracellular agents of proliferative enteritis in a hamster, deer, and ostrich with the sequence of a porcine isolate of Lawsonia intracellularis. Cooper DM, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):635–9

Prevalence of Listeria sp. in droppings from urban rooks (Corvus frugilegus). Bouttefroy A, et al. **J Appl Microbiol** 1997 May;82(5):641–7

Mycobacterium genavense infections in pet animals. Kiehn TE, et al. **J Clin Microbiol** 1996 Jul;34(7):1840–2

Identification of the swine pathogen Serpulina hyodysenteriae in rheas (Rhea americana). Jensen NS, et al. **Vet Microbiol** 1996 Oct;52(3–4):259–69

Toxoplasmosis in canaries in Great Britain. Gibbens JC, et al. **Vet Rec** 1997 Apr 5;140(14):370–1

A comparative study of the major outer membrane proteins of the avian haemophili and Pasteurella gallinarum. Hartmann L, et al. **Zentralbl Bakteriol** 1996 Jun; 284(1):47–51

Detection of Chlamydia in formalin-fixed and paraffin-embedded avian tissue by in situ hybridization. A comparison between in situ hybridization and peroxidase-antiperoxidase labelling. Theil D, et al. **Zentralbl Veterinarmed [B]** 1996 Aug;43(6):365–70

MORTALITY

Postmortem findings in bustards in the United Arab Emirates. Bailey TA, et al. **Avian Dis** 1996 Apr–Jun;40(2):296–305

Septicaemic Erysipelothrix rhusiopathiae infection in the Little Swift (Apus affinis). Van Vuuren M, et al. **J S Afr Vet Assoc** 1990 Dec;61(4):170–1

Sodium toxicity and pathology associated with exposure of waterfowl to hypersaline playa lakes of southeast New Mexico. Meteyer CU, et al. **J Vet Diagn Invest** 1997 Jul; 9(3):269–80

Causes of owl mortality in Hawaii, 1992 to 1994. Work TM, et al. **J Wildl Dis** 1996 Apr;32(2):266–73

Causes of mortality and morbidity in exhibition budgerigars in the United Kingdom. Baker JR. **Vet Rec** 1996 Aug 17; 139(7):156–62

PARASITOLOGY

Parasites of wild houbara bustards in the United Arab Emirates. Jones A, et al. **J Helminthol** 1996 Mar;70(1):21–5

Borreliae in immature Ixodes ricinus (Acari:Ixodidae) ticks parasitizing birds in the Czech Republic. Hubálek Z, et al. **J Med Entomol** 1996 Sep;33(5):766–71

Redescription of Alcedinectes alcyon (Acari:Hypoderatidae) from the belted kingfisher (Aves:Coraciiformes; Alcedinidae). Pence DB, et al. **J Med Entomol** 1996 Sep; 33(5):772–6

Hypopi (Acari:Hypoderatidae) from owls (Aves:Strigiformes:Strigidae). Pence DB, et al. **J Med Entomol** 1996 Sep;33(5):828–34

New records of subcutaneous mites (Acari:Hypoderatidae) in birds, with examples of potential host colonization events. Pence DB, et al. **J Med Entomol** 1997 Jul; 34(4):411–6

Fimbriasacculus africanensis n. gen., n. sp. (Cestoda: Hymenolepididae) from Anas capensis, Anas undulata, and Anas erythrorhyncha (Anatidae) in South Africa. Alexander SJ, et al. **J Parasitol** 1996 Dec;82(6):907–9

Isospora tiaris n.sp. (Apicomplexa: Eimeriidae) from the sooty grassquit (Tiaris fuliginosa), a passeriform bird of South America. Ball J, et al. **J Parasitol** 1997 Jun; 83(3):465–6

Description of a new species of Maritrema (Digenea:Microphallidae) from Mar Chiquita coastal lagoon (Buenos Aires, Argentina) with notes on its life cycle. Etchegoin JA, et al. **J Parasitol** 1997 Aug; 83(4):709–13

Transmission dynamics and host–parasite interactions of Trichostrongylus tenuis in red grouse (Lagopus lagopus scoticus). Hudson PJ, et al. **J Parasitol** 1997 Apr; 83(2):194–202

Morphological and molecular characterization of Giardia isolated from the straw-necked ibis (Threskiornis spinicollis) in Western Australia. McRoberts KM, et al. **J Parasitol** 1996 Oct;82(5):711–8

Acanthocephala of the bald eagle (Haliaeetus leucocephalus) in North America. Richardson DJ, et al. **J Parasitol** 1997 Jun;83(3):540–1

Ascocotyle (A.) nunezae n. sp. (Digenea: Heterophyidae) from Yucatan, Mexico. Scholz T, et al. **J Parasitol** 1997 Feb;83(1):141–7

Description and epizootiology of Babesia poelea n. sp. in brown boobies (Sula leucogaster (Boddaert)) on Sand Island, Johnston Atoll, Central Pacific. Work TM, et al. **J Parasitol** 1997 Aug;83(4):734–8

First record of a louse fly, Stilbometopa impressa (Bigot), and new host for Microlynchia pusilla (Speiser) (Hippoboscidae) from the Cape Region, Baja California Sur, México. Llinas J, et al. **J Wildl Dis** 1996 Apr; 32(2):338–9

Naturally occurring cerebral nematodiasis due to Baylisascaris larval migration in two black-and-white ruffed lemurs (Varecia variegata variegata) and suspected cases in three emus (Dromaius novaehollandiae). Campbell GA, et al. **J Zoo Wildl Med** 1997 Jun;28(2):204–7

Scanning electron microscope examination of scale-like spines on the rostellumm of five Davaineinae (Cestoda, Cyclophyllidea). Bå CT, et al. **Parasite** 1995 Mar;2(1):63–7

BIRD DISEASES

Lethal Giardia from a wild-caught sulphur-crested cockatoo (Cacatua galerita) established in vitro chronically infects mice. Upcroft JA, et al. **Parasitology** 1997 May;114 (Pt 5):407-12

Pathogenicity of Leucocytozoon marchouxi in the pink pigeon (Columba mayeri) in Mauritius. Peirce MA, et al. **Vet Rec** 1997 Feb 8;140(6):155-6

Fatal microfilarial infection in red billed blue magpies (Urocissa erythrorhynchus). Simpson VR, et al. **Vet Rec** 1996 May 25;138(21):522-3

Blastocysts in game birds. Taylor MA, et al. **Vet Rec** 1996 Jun 22;138(25):624-5

[Sarcocystis phoeniconaii n. sp. Murata, 1986 (Apicomplexa: Sarcocystidae) of the lesser flamingo (Phoeniconaias mirror: Ciconiiformes)] Göbel E, et al. **Berl Munch Tierarztl Wochenschr** 1996 Jun-Jul; 109(6-7):239-44 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Pasteurella multocida in raptors: prevalence and characterization. Morishita TY, et al. **Avian Dis** 1996 Oct-Dec;40(4):908-18

Pasteurella multocida in psittacines: prevalence, pathology, and characterization of isolates. Morishita TY, et al. **Avian Dis** 1996 Oct-Dec;40(4):900-7

Effects of the intestinal flagellate, Cochlosoma anatis, on intestinal mucosal morphology and disaccharidase activity in Muscovy ducklings. Bollinger TK, et al. **Int J Parasitol** 1996 May;26(5):533-42

Dermatitis in young Florida sandhill cranes (Grus canadensis pratensis) due to infestation by the chigger, Blankaartia sinnamaryi. Spalding MG, et al. **J Parasitol** 1997 Aug; 83(4):768-71

Suspected aflatoxicosis in breeding budgerigars [letter] Bastianello SS, et al. **J S Afr Vet Assoc** 1997 Mar;68(1):2-4

Skeletal muscle ultrastructural pathology in Serinus canarius infected with Plasmodium cathemerium. Carmona M, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):87-91

Sodium toxicity and pathology associated with exposure of waterfowl to hypersaline playa lakes of southeast New Mexico. Meteyer CU, et al. **J Vet Diagn Invest** 1997 Jul; 9(3):269-80

Synovial chondromatosis in a great horned owl (Bubo virginianus). Howard MO, et al. **J Wildl Dis** 1996 Apr; 32(2):370-2

Electron microscopic evidence for infection of splenic dendritic cells by adenovirus in psittacine birds. Gómez-Villamandos JC, et al. **Res Virol** 1995 Nov-Dec; 146(6):389-395

Immunocytochemical study of the pathogenesis of Pacheco's parrot disease in budgerigars. Ramis A, et al. **Vet Microbiol** 1996 Sep;52(1-2):49-61

Encephalitozoon hellem in budgerigars (Melopsittacus undulatus). Black SS, et al. **Vet Pathol** 1997 May; 34(3):189-98

Intracellular Campylobacter-like organisms associated with rectal prolapse and proliferative enteroproctitis in emus (Dromaius novaehollandiae). Lemarchand TX, et al. **Vet Pathol** 1997 Mar;34(2):152-6

Exocrine pancreatic insufficiency in a yellow-naped Amazon (Amazona ochrocephala) with pancreatic adenocarcinoma. Ritchey JW, et al. **Vet Pathol** 1997 Jan;34(1):55-7

Glaucoma in a captive-bred great horned owl (Bubo virginianus virginianus). Rayment LJ, et al. **Vet Rec** 1997 May 3;140(18):481-3

Babesia shortti infection in a saker falcon (Falco cherrug). Samour JH, et al. **Vet Rec** 1996 Aug 17;139(7):167-8

PREVENTION & CONTROL

Cross-protection test of an avian poxvirus isolated from houbara bustards. Ostrowski S, et al. **Avian Dis** 1996 Oct-Dec;40(4):762-9

Compendium of psittacosis (chlamydiosis) control, 1997. Centers for Disease Control and Prevention. **MMWR Morb Mortal Wkly Rep** 1997 Jul 18; 46(RR-13):1-13

Husbandry practices as related to infectious and parasitic diseases of farmed ratites. Tully TN, et al. **Rev Sci Tech** 1996 Mar;15(1):73-89 (33 ref.)

Vaccination of pheasants against Newcastle disease [letter] Dalton P. **Vet Rec** 1997 Feb 22;140(8):211

Management of disease in game birds [letter] Dalton P. **Vet Rec** 1997 Aug 30;141(9):231-2

Prevention of entry of avian influenza and paramyxoviruses into an ornithological collection. Shortridge KF, et al. **Vet Rec** 1997 Apr 5;140(14):373-4

PSYCHOLOGY

[Behavior dissorders in psittacines. 1. Symptoms and causes] Hollmann P. **Tierarztl Prax** 1997 May;25(3):233-40 (Eng. Abstr.) **(Ger)**

[Behavioral disorders in psittacines. 2: Therapeutic measures] Hollmann P. **Tierarztl Prax** 1997 Jul;25(4):356-62 (46 ref.) (Eng. Abstr.) **(Ger)**

THERAPY

More care, less haste [letter] Holz P. **Aust Vet J** 1996 Dec; 74(6):481

Lead poisoning in swans [letter; comment] Routh A, et al. **Vet Rec** 1997 Jun 7;140(23):612. Comment on: Vet Rec 1997 Apr 26;140(17):464. Comment on: Vet Rec 1997 May 24;140(21):563-4.

[Diagnosis and medical care of raptors in a compilation of cases from 1985-1994] Hatt JM, et al. **Schweiz Arch Tierheilkd** 1996;138(9):434-40 (Eng. Abstr.) **(Ger)**

TRANSMISSION

Transmission dynamics and host-parasite interactions of Trichostrongylus tenuis in red grouse (Lagopus lagopus scoticus). Hudson PJ, et al. **J Parasitol** 1997 Apr; 83(2):194-202

Salmonella enteritidis in Antarctica: zoonosis in man or humanosis in penguins? [letter] Olsen B, et al. **Lancet** 1996 Nov 9;348(9037):1319-20

Domiciliary outbreak of psittacosis in dogs: potential for zoonotic infection. Gresham AC, et al. **Vet Rec** 1996 Jun 22;138(25):622-3

VIROLOGY

Avian tumor viruses: persistent and evolving pathogens. Witter RL. **Acta Vet Hung** 1997;45(3):251-66 (37 ref.)

Isolation and identification of avian rotavirus from pheasant chicks with signs of clinical enteritis. Legrottaglie R, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun; 20(3):205-10

Transmission patterns of St. Louis encephalitis and eastern equine encephalitis viruses in Florida: 1978-1993. Day JF, et al. **J Med Entomol** 1996 Jan;33(1):132-9

Polyomavirus encephalopathy in a Ducorps' cockatoo (Cacatua ducorpsii) with psittacine beak and feather disease. Latimer KS, et al. **J Vet Diagn Invest** 1996 Jul; 8(3):291-5

Detection of a non-cultivatable calicivirus from the white tern (Gygis alba rothschildi). Poet SE, et al. **J Wildl Dis** 1996 Jul;32(3):461-7

Virulence of six strains of duck plague virus in eight waterfowl species. Spieker JO, et al. **J Wildl Dis** 1996 Jul; 32(3):453-60

Poultry virus infection in Antarctic penguins [letter] Gardner H, et al. **Nature** 1997 May 15;387(6630):245

Idiopathic moult in parrots [letter] Scott P. **Vet Rec** 1996 Jun 1;138(22):552

Molecular cloning and sequence analysis of the penton base genes of type II avian adenoviruses. Suresh M, et al. **Virus Res** 1995 Dec;39(2-3):289-97

BIRD FANCIER'S LUNG

COMPLICATIONS

Allergy to pine nuts in a bird fancier. Jansen A, et al. **Allergy** 1996 Oct;51(10):741-4

DIAGNOSIS

On the correct determination of reference values for serum antibodies against pigeon serum antigen using a group of healthy blood donors. Bañales JL, et al. **Arch Med Res** 1997 Summer;28(2):289-91

[Chronic cough without expectoration] Bassetti S. **Schweiz Rundsch Med Prax** 1997 Jul 30;86(31-32):1220-1 **(Ger)**

IMMUNOLOGY

Smoking and immune responses in pigeon fanciers' lung. Baldwin CI, et al. **Biochem Soc Trans** 1997 May;25(2):325S

Feather mites are potentially an important source of allergens for pigeon and budgerigar keepers. Colloff MJ, et al. **Clin Exp Allergy** 1997 Jan;27(1):60-7

PATHOLOGY

Fatal diffuse alveolar damage from bird fanciers' lung. Tasaka S, et al. **Respiration** 1997;64(4):307-9

PREVENTION & CONTROL

Pigeon fancier's lung [editorial] Bourke S, et al. **BMJ** 1997 Jul 12;315(7100):70-1

BIRD POX VIRUS see **AVIPOXVIRUS**

BIRDPOX see **FOWLPOX**

BIRDS

Neural correlates of sensitive periods in avian song learning. Nordeen KW. **Ann N Y Acad Sci** 1997 Jan 15;807:386-400 (109 ref.)

Postmortem findings in bustards in the United Arab Emirates. Bailey TA, et al. **Avian Dis** 1996 Apr-Jun;40(2):296-305

Cases of spirochete-associated necrotizing typhlitis in captive common rheas (Rhea americana). Buckles EL, et al. **Avian Dis** 1997 Jan-Mar;41(1):144-8

Osteosarcoma in an American robin (Turdus migratorius). Hartup BK, et al. **Avian Dis** 1996 Oct-Dec;40(4):938-40

Diagnostic findings in the 1992 epornitic of neurotropic velogenic Newcastle disease in double-crested cormorants from the upper midwestern United States. Meteyer CU, et al. **Avian Dis** 1997 Jan-Mar;41(1):171-80

Pasteurella multocida in raptors: prevalence and characterization. Morishita TY, et al. **Avian Dis** 1996 Oct-Dec;40(4):908-18

An occurrence of avian tuberculosis in hooded merganser (Lophodytes cucullatus). Sato Y, et al. **Avian Dis** 1996 Oct-Dec;40(4):941-4

Neither testicular androgens nor embryonic aromatase activity alters morphology of the neural song system in zebra finches. Wade J, et al. **Biol Reprod** 1996 Nov; 55(5):1126-32

Modelling memory in coal tits: an illustration of the EM algorithm. Jolliffe IT, et al. **Biometrics** 1997 Sep; 53(3):1136-42

Avian exposure and risk of lung cancer in women in Missouri: population based case-control study [see comments] Alavanja MC, et al. **BMJ** 1996 Nov 16;313(7067):1233-5 . Comment in: BMJ 1996 Nov 16;313(7067):1218-9.

Pet birds and lung cancer [editorial; comment] Britton J, et al. **BMJ** 1996 Nov 16;313(7067):1218-9. Comment on: BMJ 1996 Nov 16;313(7067):1233-5. Comment on: BMJ 1996 Nov 16;313(7067):1236-8.

Pet birds and risk of lung cancer in Sweden: a case-control study [see comments] Modigh C, et al. **BMJ** 1996 Nov 16;313(7067):1236-8. Comment in: BMJ 1996 Nov 16;313(7067):1218-9.

Time budget and colour preferences (with specific reference to feeding) of ostrich (Struthio camelus) chicks in captivity. Bubier NE, et al. **Br Poult Sci** 1996 Jul;37(3):547-51

Outbreak of campylobacter enteritis in a residential school associated with bird pecked bottle tops. Stuart J, et al. **Commun Dis Rep CDR Rev** 1997 Mar 7;7(3):R38-40

A probabilistic model for deriving soil quality criteria based on secondary poisoning of top predators. II. Calculations for dichlorodiphenyltrichloroethane (DDT) and cadmium. Jongbloed RH, et al. **Ecotoxicol Environ Saf** 1996 Aug; 34(3):279-306

Determination of mycotoxins in pet foods sold for domestic pets and wild birds using linked-column immunoassay clean-up and HPLC. Scudamore KA, et al. **Food Addit Contam** 1997 Feb-Mar;14(2):175-86

Effect of chronic naloxone and morphine treatments on testicular, body weight, and plumage pigmentation cycle of lal munia, Estrilda amandava. Lal P, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):2-11

Activity of primary auditory neurons in the cochlear ganglion of the emu Dromaius novaehollandiae: spontaneous discharge, frequency tuning, and phase locking. Manley GA, et al. **J Acoust Soc Am** 1997 Mar; 101(3):1560-73

Auditory scene analysis by songbirds: stream segregation of birdsong by European starlings (Sturnus vulgaris). Hulse SH, et al. **J Comp Psychol** 1997 Mar;111(1):3-13

Social malleability in cowbirds: new measures reveal new evidence of plasticity in the eastern subspecies (Molothrus ater ater). West MJ, et al. **J Comp Psychol** 1996 Mar; 110(1):15-26

Hummingbird hovering energetics during moult of primary flight feathers. Chai P. **J Exp Biol** 1997 May;200 (Pt 10):1527-36

Effects of embryonic estrogen on differentiation of the gonads and secondary sexual characteristics of male zebra finches. Wade J, et al. **J Exp Zool** 1997 Aug 15; 278(6):405-11

Characterization of the reflective materials and organelles in the bright irides of North American blackbirds (Icterinae). Hudon J, et al. **Pigment Cell Res** 1996 Apr; 9(2):96-104

Safety in numbers: sophisticated vigilance by Allenby's gerbil. Rosenzweig ML, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5713-5

Avian companionship in alleviation of depression, loneliness, and low morale of older adults in skilled rehabilitation units [see comments] Jessen J, et al. **Psychol Rep** 1996 Feb; 78(1):339-48. Comment in: Psychol Rep 1996 Apr;78(2):482.

Quarantine protocols and preventive medicine procedures for reptiles, birds and mammals in zoos. Miller RE. **Rev Sci Tech** 1996 Mar;15(1):183-9 (1 ref.)

Ecological hazard assessment of dioxins: hazards to organisms at different levels of aquatic food webs (fish-eating birds and mammals, fish and invertebrates). Loonen H, et al. **Sci Total Environ** 1996 Apr 5; 182(1-3):93-103

Mass survival of birds across the Cretaceous-Tertiary boundary: molecular evidence [see comments] Cooper A, et al. **Science** 1997 Feb 21;275(5303):1109-13. Comment in: Science 1997 Feb 21;275(5303):1068.

Did birds sail through the K-T extinction with flying colors? [news; comment] Gibbons A. **Science** 1997 Feb 21; 275(5303):1068. Comment on: Science 1997 Feb 21;275(5303):1109-13.

Fourier-transform Raman spectroscopy of mammalian and avian keratotic biopolymers. Akhtar W, et al. **Spectrochim Acta A Mol Biomol Spectrosc** 1997 Jan; 53A(1):81-90

Detection of an anatoxin-a(s)-like anticholinesterase in natural blooms and cultures of cyanobacteria/blue-green algae from Danish lakes and in the stomach contents of poisoned birds. Henriksen P, et al. **Toxicon** 1997 Jun; 35(6):901-13

Possible health hazards from birds in the rural environment [letter] Cooper JE. **Trans R Soc Trop Med Hyg** 1997 May-Jun;91(3):366-7

Acute oral toxicity of the herbicide BUREX EKO in

pheasants. Legáth J, et al. **Vet Med (Praha)** 1996 Dec; 41(12):367–71

Botulism in waterfowl. Bongers JH, et al. **Vet Q** 1996;18 Suppl 3:S156–7 (6 ref.)

Calcium deficiency in wild birds. Graveland J. **Vet Q** 1996; 18 Suppl 3:S136–7 (8 ref.)

Observations on the helminths of harbour porpoises (Phocoena phocoena) and common guillemots (Uria aalge) from the Belgian and German coasts. Brosens L, et al. **Vet Rec** 1996 Sep 14;139(11):254–7

Suspected allergic reaction to penicillamine in mute swans [letter; comment] [see comments] Cooke SW. **Vet Rec** 1997 May 24;140(21):563–4. Comment on: Vet Rec 1997 Apr 26;140(17):464. Comment in: Vet Rec 1997 Jun 7;140(23):612.

Suspected allergic reaction to penicillamine in mute swans [letter] [see comments] Keeble E. **Vet Rec** 1997 Apr 26; 140(17):464. Comment in: Vet Rec 1997 May 24;140(21):563–4. Comment in: Vet Rec 1997 Jun 7;140(23):612.

Moonstruck ostriches [letter] Madeiros CA. **Vet Rec** 1997 May 24;140(21):564

Sex determination in ostriches [letter] Madeiros CA. **Vet Rec** 1997 Mar 8;140(10):264

Lead poisoning in swans [letter; comment] Routh A, et al. **Vet Rec** 1997 Jun 7;140(23):612. Comment on: Vet Rec 1997 Apr 26;140(17):464. Comment on: Vet Rec 1997 May 24;140(21):563–4.

Blastocysts in game birds. Taylor MA, et al. **Vet Rec** 1996 Jun 22;138(25):624–5

Zoonoses control. Crimean–Congo haemorrhagic fever. **Wkly Epidemiol Rec** 1996 Dec 13;71(50):381–2 **(Eng, Fre)**

[Cesium–137 in sea birds and and seals in the Barents sea] Matishov FG, et al. **Dokl Akad Nauk** 1996 Dec; 351(6):844–6 **(Rus)**

ABNORMALITIES

Multiple intussusceptions in a juvenile rhea (Rhea americana) with proventricular impaction. Frasca S Jr, et al. **Avian Dis** 1997 Apr–Jun;41(2):475–80

In ovo 2,3,7,8–tetrachlorodibenzo–p–dioxin exposure in three avian species. 1. Effects on thyroid hormones and growth during the perinatal period. Janz DM, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):281–91

In ovo 2,3,7,8–tetrachlorodibenzo–p–dioxin exposure in three avian species. 2. Effects on estrogen receptor and plasma sex steroid hormones during the perinatal period. Janz DM, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):292–300

ANATOMY & HISTOLOGY

Cloacal morphology of Nothura maculosa (Temminck, 1815), Aves tinamiformes. de Oliveira CA, et al. **Anat Anz** 1996 Oct;178(5):471–6

Fine structure of the choroidal coat of the avian eye. Vascularization, supporting tissue and innervation. De Stefano ME, et al. **Anat Embryol (Berl)** 1997 May; 195(5):393–418

Pulmonary macrophages in birds (barn owl, Tyto tyto alba), domestic fowl (Gallus gallus f. domestica), quail (Coturnix coturnix), and pigeons (Columbia livia). Klika E, et al. **Anat Rec** 1996 Sep;246(1):87–97

The functional anatomy of the ciliary muscle in four avian species. Pardue MT, et al. **Brain Behav Evol** 1997; 49(6):295–311

Relative hippocampal volume in relation to food–storing behavior in four species of woodpeckers. Volman SF, et al. **Brain Behav Evol** 1997;49(2):110–20

The avian respiratory system: a unique model for studies of respiratory toxicosis and for monitoring air quality. Brown RE, et al. **Environ Health Perspect** 1997 Feb;105(2):188–200 (108 ref.)

Presence and function of growth factors in the avian ovary. van Nassauw L, et al. **Eur J Morphol** 1997 Jul;35(3):171–80 (59 ref.)

Retinal photoreceptor fine structure in the Australian galah (Eolophus roseicapillus) (Aves). Braekevelt CR, et al. **Histol Histopathol** 1996 Jul;11(3):555–64

Fine structure of the pecten oculi in the Australian galah (Eolophus roseicapillus) (Aves). Braekevelt CR, et al. **Histol Histopathol** 1996 Jul;11(3):565–71

Divergent and parallel development in volume sizes of telencephalic song nuclei in male and female zebra finches. Nixdorf–Bergweiler BE. **J Comp Neurol** 1996 Nov 18; 375(3):445–56

Anatomy and histochemistry of spread–wing posture in birds. 2. Gliding flight in the California gull, Larus californicus: a paradox of fast fibers and posture. Meyers RA, et al. **J Morphol** 1997 Sep;233(3):237–47

An anatomical basis for visual calibration of the auditory space map in the barn owl's midbrain. Feldman DE, et al. **J Neurosci** 1997 Sep 1;17(17):6820–37

A myelographic technique for avian species. Harr KE, et al. **Vet Radiol Ultrasound** 1997 May–Jun;38(3):187–92

BLOOD

Effects of air pollution on hematological parameters in passerine birds. Llacuna S, et al. **Arch Environ Contam Toxicol** 1996 Jul;31(1):148–52

Thyroid hormones in nestling great tits (Parus major). Silverin B, et al. **Gen Comp Endocrinol** 1996 Aug; 103(2):138–41

Natural and photoperiodically induced changes in plasma prolactin levels in male great tits. Silverin B, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):145–54

Some blood chemical, electrolyte and mineral values from young ostriches. Brown CR, et al. **J S Afr Vet Assoc** 1996 Sep;67(3):111–4

Effect of capillary tube sealants on lead content of avian blood. Plumlee KH, et al. **J Vet Diagn Invest** 1996 Jul; 8(3):392–3

Analysis of amoxycillin in bustard plasma by high–performance liquid chromatography after administration of a long–acting formulation. Bailey TA, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):313–5

The ratio of amount of haemoglobin to total surface area of erythrocytes in birds in relation to body mass, age of nestlings, and season of the year. Kostelecka–Myrcha A. **Physiol Zool** 1997 May–Jun;70(3):278–82

Corticosterone, reproductive status, and body mass in a cooperative breeder, the Florida scrub–jay (Aphelocoma coerulescens). Schoech SJ, et al. **Physiol Zool** 1997 Jan–Feb;70(1):68–73

Serological survey for avian viruses in houbara bustards (Chlamydotis undulata macqueenii). Bailey TA, et al. **Vet Rec** 1996 Sep 7;139(10):238–9

CLASSIFICATION

Are storks and New World vultures paraphyletic? [letter] Helbig AJ, et al. **Mol Phylogenet Evol** 1996 Oct;6(2):315–9

A molecular phylogenetic survey of the nightjars and allies (Caprimulgiformes) with special emphasis on the potoos (Nyctibiidae). Mariaux J, et al. **Mol Phylogenet Evol** 1996 Oct;6(2):228–44

Phylogenetic relationships among the major lineages of the birds–of–paradise (Paradisaeidae) using mitochondrial DNA gene sequences. Nunn GB, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):445–59

The utility of DNA sequences of an intron from the beta–fibrinogen gene in phylogenetic analysis of woodpeckers (Aves: Picidae). Prychitko TM, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):193–204

A mitochondrial cytochrome B phylogeny of the Alectoris partridges. Randi E. **Mol Phylogenet Evol** 1996 Oct; 6(2):214–27

Rhodinocichla rosea is an emberizid (Aves; Passeriformes) based on mitochondrial DNA analyses. Seutin G, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):260–74

Flightlessness and phylogeny amongst endemic rails (Aves:Rallidae) of the New Zealand region. Trewick SA. **Philos Trans R Soc Lond B Biol Sci** 1997 Apr 29; 352(1352):429–46

Labile evolution of display traits in bowerbirds indicates reduced effects of phylogenetic constraint. Kusmierski R, et al. **Proc R Soc Lond B Biol Sci** 1997 Mar 22; 264(1380):307–13

EMBRYOLOGY

Short historical survey of pattern formation in the endo–mesoderm and the neural anlage in the vertebrates: the role of vertical and planar inductive actions. Nieuwkoop PD. **Cell Mol Life Sci** 1997 Apr;53(4):305–18 (133 ref.)

Ontogeny of hematopoiesis in the avian embryo: a general paradigm. Dieterlen–Lievre F, et al. **Curr Top Microbiol Immunol** 1996;212:119–28 (30 ref.)

Induction of cardiac myogenesis in avian pregastrula epiblast: the role of the hypoblast and activin. Yatskievych TA, et al. **Development** 1997 Jul;124(13):2561–70

Avian Ikaros gene is expressed early in embryogenesis. Liippo J, et al. **Eur J Immunol** 1997 Aug;27(8):1853–7

A comparative review of the sites of histoenzymatic dephosphorylating activities and of gene expression in developing limb buds of mammalian and avian species. Milaire J. **Eur J Morphol** 1997 Jul;35(3):143–69 (193 ref.)

The formation of somite compartments in the avian embryo. Brand–Saberi B, et al. **Int J Dev Biol** 1996 Feb;40(1):411–20 (97 ref.)

Experimental analysis of the mechanisms implicated in the induction and commitment of precardiogenic mesodermal cells during avian gastrulation. Garcia–Martinez V, et al. **Int J Dev Biol** 1996;Suppl 1:215S–216S

Patterning of the early neural primordium in the avian embryo. Le Douarin N. **Int J Dev Biol** 1996;Suppl 1:51S

In situ hybridization and immunocytochemical analyses of the expression of cardiac–specific genes in an experimental model, which prevents the fusion and subsequent formation of the single tubular heart in avian embryos. López–Sanchez C, et al. **Int J Dev Biol** 1996;Suppl 1:259S–260S

Role of the cerebellar inner cortical layer in the onset of fissuration in the avian embryo. Peña–Melián A, et al. **Int J Dev Biol** 1996;Suppl 1:153S–154S

Nuclear morphogenesis and the role of the manchette during spermiogenesis in the ostrich (Struthio camelus). Soley JT. **J Anat** 1997 May;190 (Pt 4):563–76

Avian models in developmental biology. Dieterlen–Lièvre F. **Poult Sci** 1997 Jan;76(1):78–82 (44 ref.)

Primordial germ cell development in avians. Ginsburg M. **Poult Sci** 1997 Jan;76(1):91–5 (23 ref.)

GENETICS

Visual system alterations in White Zebra Finches. Bredenkötter M, et al. **Brain Behav Evol** 1996;47(1):23–32

Molecular characterization and cytological mapping of a non–repetitive DNA sequence region from the W chromosome of chicken and its use as a universal probe for sexing carinatae birds. Ogawa A, et al. **Chromosome Res** 1997 Apr;5(2):93–101

Multilocus fingerprinting and single locus analyses in the great tit for paternity determination. Lubjuhn T, et al. **Electrophoresis** 1996 Oct;17(10):1555–8

Complete amino acid sequences of follitropin and lutropin in the ostrich, Struthio camelus. Koide Y, et al. **Eur J Biochem** 1996 Aug 15;240(1):262–7

Avian Ikaros gene is expressed early in embryogenesis. Liippo J, et al. **Eur J Immunol** 1997 Aug;27(8):1853–7

Molecular cloning of an avian anti–Müllerian hormone homologue. Neeper M, et al. **Gene** 1996 Oct 17; 176(1–2):203–9

Identification of the sex of Oriental white stork, Ciconia boyciana, by the polymerase chain reaction based on its sex chromosome–specific DNA sequences. Itoh Y, et al. **Genes Genet Syst** 1997 Feb;72(1):51–6

First isolation of tandemly repeated DNA sequences in New World vultures and phylogenetic implications. Keyser C, et al. **Genome** 1996 Feb;39(1):31–9

Low frequency of microsatellites in the avian genome. Primmer CR, et al. **Genome Res** 1997 May;7(5):471–82

New microsatellites from the pied flycatcher Ficedula hypoleuca and the swallow Hirundo rustica genomes. Primmer CR, et al. **Hereditas** 1996;124(3):281–3

In situ hybridization and immunocytochemical analyses of the expression of cardiac–specific genes in an experimental model, which prevents the fusion and subsequent formation of the single tubular heart in avian embryos. López–Sanchez C, et al. **Int J Dev Biol** 1996;Suppl 1:259S–260S

DNA hybridization evidence for the principal lineages of hummingbirds (Aves:Trochilidae). Bleiweiss R, et al. **Mol Biol Evol** 1997 Mar;14(3):325–43

The mtDNA sequence of the ostrich and the divergence between paleognathous and neognathous birds. Härlid A, et al. **Mol Biol Evol** 1997 Jul;14(7):754–61

Structural conservation and variation in the mitochondrial control region of fringilline finches (Fringilla spp.) and the greenfinch (Carduelis chloris). Marshall HD, et al. **Mol Biol Evol** 1997 Feb;14(2):173–84

Isolation and characterization of microsatellite loci in a Phylloscopus warbler. Bensch S, et al. **Mol Ecol** 1997 Jan; 6(1):91–2

Isolation and characterization of novel waterfowl microsatellite loci: cross–species comparisons and research applications. Fields RL, et al. **Mol Ecol** 1997 Feb; 6(2):199–202

Population differentiation and evolution in the common guillemot Uria aalge. Friesen VL, et al. **Mol Ecol** 1996 Dec;5(6):793–805

Isolation of tetranucleotide microsatellites from the Mexican jay Aphelocoma ultramarina. Li SH, et al. **Mol Ecol** 1997 May;6(5):499–501

Polymorphic microsatellite markers in the loggerhead shrike Lanius ludovicianus isolated from a library enriched for CA repeats. Mundy NI, et al. **Mol Ecol** 1996 Dec;5(6):811–3

Genetic differences between the endangered San Clemente Island loggerhead shrike Lanius ludovicianus mearnsi and two neighbouring subspecies demonstrated by mtDNA control region and cytochrome b sequence variation. Mundy NI, et al. **Mol Ecol** 1997 Jan;6(1):29–37

Isolation and characterization of hypervariable microsatellites in the red grouse Lagopus lagopus scoticus. Piertney SB, et al. **Mol Ecol** 1997 Jan;6(1):93–5

A wide–range survey of cross–species microsatellite amplification in birds. Primmer CR, et al. **Mol Ecol** 1997 Jan;6(1):101

A suite of falcon single–locus minisatellite probes: a powerful alternative to DNA fingerprinting. Wetton JH, et al. **Mol Ecol** 1997 Feb;6(2):119–28

Molecular phylogenetics of Puffinus shearwaters: preliminary evidence from mitochondrial cytochrome b gene sequences. Austin JJ. **Mol Phylogenet Evol** 1996 Aug; 6(1):77–88

alpha–Crystallin sequences support a galliform/anseriform clade. Caspers GJ, et al. **Mol Phylogenet Evol** 1997 Apr; 7(2):185–8

Re: Congruence and phylogenetic reanalysis of perching bird cytochrome b sequences [letter] Edwards SV, et al. **Mol Phylogenet Evol** 1997 Apr;7(2):266–71

Phylogeny and evolution of the Sulidae (Aves:Pelecaniformes): a test of alternative modes of speciation. Friesen VL, et al. **Mol Phylogenet Evol** 1997 Apr;7(2):252–60

Phylogenetic relationships among the major lineages of the birds–of–paradise (Paradisaeidae) using mitochondrial DNA gene sequences. Nunn GB, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):445–59

The utility of DNA sequences of an intron from the beta–fibrinogen gene in phylogenetic analysis of woodpeckers (Aves: Picidae). Prychitko TM, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):193–204

Rhodinocichla rosea is an emberizid (Aves; Passeriformes) based on mitochondrial DNA analyses. Seutin G, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):260–74

Genetics and the origin of bird species. Grant PR, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7768–75

Frequency of migrants and migratory activity are genetically correlated in a bird population: evolutionary implications. Pulido F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14642–7

Multilocus DNA fingerprinting reveals high rate of heritable genetic mutation in herring gulls nesting in an industrialized urban site. Yauk CL, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12137–41

Enigmatic phylogeny of skuas (Aves:Stercorariidae). Cohen BL, et al. **Proc R Soc Lond B Biol Sci** 1997 Feb 22; 264(1379):181–90

First gene on the avian W chromosome (CHD) provides a tag for universal sexing of non–ratite birds. Ellegren H. **Proc R Soc Lond B Biol Sci** 1996 Dec 22;263(1377):1635–41

Sex identification in birds using two CHD genes [published erratum appears in Proc R Soc Lond B Biol Sci 1997 Apr 22;264(1381):623] Griffiths R, et al. **Proc R Soc Lond B Biol Sci** 1996 Sep 22;263(1374):1251–6

Labile evolution of display traits in bowerbirds indicates reduced effects of phylogenetic constraint. Kusmierski R, et al. **Proc R Soc Lond B Biol Sci** 1997 Mar 22; 264(1380):307–13

Males mutate more, bird study shows [news] Dickman S. **Science** 1997 Oct 3;278(5335):34

The variance of pairwise nucleotide differences in two populations with migration. Wakeley J. **Theor Popul Biol** 1996 Feb;49(1):39–57

[Micro vs. macro: structural–functional organization of avian micro– and macrochromosomes] Rodionov AV. **Genetika** 1996 May;32(5):597–608 (105 ref.) (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Intestinal growth in altricial European starling (Sturnus vulgaris) and precocial Japanese quail (Coturnix coturnix japonica). A morphometric and cytokinetic study. Starck JM. **Acta Anat (Basel)** 1996;156(4):289–306

Developmental changes in axon terminals visualized by immunofluorescence for the growth-associated protein, GAP–43, in the robust nucleus of the archistriatum of the zebra finch. Sakaguchi H, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):245–51

Developmental toxicity of PCB 126 (3,3',4,4',5–pentachlorobiphenyl) in nestling American kestrels (Falco sparverius). Hoffman DJ, et al. **Fundam Appl Toxicol** 1996 Dec;34(2):188–200

Plasma thyroxine concentrations in farmed ostriches in relation to age, body weight, and growth hormone. Dawson A, et al. **Gen Comp Endocrinol** 1996 Sep; 103(3):308–15

The development of the hypothalamic–pituitary–gonadal axis in juvenile great tits. Silverin B, et al. **Gen Comp Endocrinol** 1996 Aug;103(2):150–66

On the pattern of organ growth in the common tern (Sterna hirundo). Lilja C. **Growth Dev Aging** 1997 Spring;61(1):11–8

Development of the time coding pathways in the auditory brainstem of the barn owl. Carr CE, et al. **J Comp Neurol** 1996 Sep 30;373(4):467–83

Song– and order–selective neurons in the songbird anterior forebrain and their emergence during vocal development. Doupe AJ. **J Neurosci** 1997 Feb 1;17(3):1147–67

Age–related changes of plasma alkaline phosphatase and inorganic phosphorus, and late ossification of the cranial roof in the Spanish imperial eagle (Aquila adalberti C. L. Brehm, 1861). Dobado–Berrios PM, et al. **Physiol Zool** 1997 Jul–Aug;70(4):421–7

Energetics, growth, and body composition of Adélie penguin chicks, Pygoscelis adeliae. Janes DN. **Physiol Zool** 1997 Mar–Apr;70(2):237–43

Estimation of the weight and body condition of ostriches (Struthio camelus) from body measurements. Deeming DC, et al. **Vet Rec** 1996 Aug 31;139(9):210–3

IMMUNOLOGY

Development of monoclonal antibodies for measurement of immunoglobulin G antibody responses in blue and gold macaws (Ara ararauna). Lung NP, et al. **Am J Vet Res** 1996 Aug;57(8):1157–61

Maternal immunoglobulin G antibody transfer and development of immunoglobulin G antibody responses in blue and gold macaw (Ara ararauna) chicks. Lung NP, et al. **Am J Vet Res** 1996 Aug;57(8):1162–7

Peculiarities of egg allergy in children with bird protein sensitization. Bausela BA, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):213–6

Cross–protection test of an avian poxvirus isolated from houbara bustards. Ostrowski S, et al. **Avian Dis** 1996 Oct–Dec;40(4):762–9

Pancreas of Aselli in some species of the shrews (Sorex araneusneomys fodiens) as an analogue of the bursa of Fabricius in birds. Tsiperson VP. **Cell Biol Int** 1997 Jun; 21(6):359–65

Avian natural killer cells. Göbel TW, et al. **Curr Top Microbiol Immunol** 1996;212:107–17 (72 ref.)

Organochlorine–associated immunosuppression in prefledgling Caspian terns and herring gulls from the Great Lakes: an ecoepidemiological study. Grasman KA, et al. **Environ Health Perspect** 1996 Aug;104 Suppl 4:829–42 (92 ref.)

A model for the prediction of relative titres of avian malaria and Aspergillus spp. IgG in Jackass penguin (Spheniscus demersus) females based on maternal IgG in egg–yolk. Graczyk TK, et al. **Int J Parasitol** 1996 Jul;26(7):749–54

INJURIES

More care, less haste [letter] Holz P. **Aust Vet J** 1996 Dec; 74(6):481

Tibiotarsal fracture repair in a scarlet macaw using external skeletal fixation. Kavanagh M. **J Small Anim Pract** 1997 Jul;38(7):296–8

METABOLISM

Distribution of Escherichia coli heat–stable enterotoxin/guanylin/uroguanylin receptors in the avian intestinal tract. Krause WJ, et al. **Acta Anat (Basel)** 1995; 153(3):210–9

Expression of intermediate filaments and N–cadherin adhesion molecule in the thymus of domesticated birds. Minkó K, et al. **Acta Biol Hung** 1996;47(1–4):323–40

Glucose and amino acid absorption in house sparrow intestine and its dietary modulation. Caviedes–Vidal E, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R561–8

Temporal and geographic variation of organochlorine residues in eggs of the common snapping turtle (Chelydra serpentina serpentina) (1981–1991) and comparisons to trends in the herring gull (Larus argentatus) in the Great Lakes basin in Ontario, Canada. Bishop CA, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):512–24

Interspecies variation of "B" esterases in birds: the influence of size and feeding habits. Fossi MC, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):525–32

Environmental exposure and distribution of lead in four species of raptors in Southeastern Spain. García–Fernández AJ, et al. **Arch Environ Contam Toxicol** 1997 Jul; 33(1):76–82

Distribution, biomagnification, and elimination of butyltin compound residues in common cormorants (Phalacrocorax carbo) from Lake Biwa, Japan. Guruge KS, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):210–7

Organochlorines and trace elements in four colonial waterbird species nesting in the lower Laguna Madre, Texas. Mora MA. **Arch Environ Contam Toxicol** 1996 Nov; 31(4):533–7

Relationships between heavy metal and metallothionein concentrations in lesser black–backed gulls, Larus fuscus, and Cory's shearwater, Calonectris diomedea. Stewart FM, et al. **Arch Environ Contam Toxicol** 1996 Mar;30(3):299–305

The suitability of oiled guillemots (Uria aalge) as monitoring organisms for geographical comparisons of trace element contaminants. Wenzel C, et al. **Arch Environ Contam Toxicol** 1996 Oct;31(3):368–77

Lead exposure in Laysan albatross adults and chicks in Hawaii: prevalence, risk factors, and biochemical effects. Work TM, et al. **Arch Environ Contam Toxicol** 1996 Jul; 31(1):115–9

Affinity of naloxone and its quaternary analogue for avian central delta and mu opioid receptors. Deviche P. **Brain Res** 1997 May 23;757(2):276–9

PCB and heavy metal contamination and effects in European starlings (Sturnus vulgaris) at a superfund site. Arenal CA, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):254–62

Organochlorine insecticide residues in eggs of the little tern (Sterna albifrons) in the Axios Delta, Greece. Goutner V, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):61–6

Heavy metal concentrations in Cory's shearwater, Calonectris diomedea, fledglings from the Azores, Portugal. Stewart FM, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):115–22

Drug metabolizing enzymes in the ostrich (Struthio camelus): comparison with the chicken and the rat. Amsallem–Holtzman E, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jan;116(1):47–50

A probabilistic model for deriving soil quality criteria based on secondary poisoning of top predators. I. Model description and uncertainty analysis. Traas TP, et al. **Ecotoxicol Environ Saf** 1996 Aug;34(3):264–78

Presence and function of growth factors in the avian ovary. van Nassauw L, et al. **Eur J Morphol** 1997 Jul;35(3):171–80 (59 ref.)

Estrogen synthesis and secretion in the brown–headed cowbird (Molothrus ater). Saldanha CJ, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):390–401

Elimination of tritiated thymidine from birds. Party E, et al. **Health Phys** 1997 Apr;72(4):633–5

Localization of AMPA–selective glutamate receptors in the auditory brainstem of the barn owl. Levin MD, et al. **J Comp Neurol** 1997 Feb 10;378(2):239–53

c–fos expression in the putative avian suprachiasmatic nucleus. King VM, et al. **J Comp Physiol [A]** 1997 May; 180(5):541–51

Anatomy and histochemistry of spread–wing posture in birds. 2. Gliding flight in the California gull, Larus californicus: a paradox of fast fibers and posture. Meyers RA, et al. **J Morphol** 1997 Sep;233(3):237–47

Testosterone elevates expression of tenascin–R and oligomannosidic carbohydrates in developing male zebra finches. Burkhardt–Holm P, et al. **J Neurosci Res** 1996 Nov 1;46(3):385–92

Evolution of processes and regulators of lipoprotein synthesis: from birds to mammals. Davis RA. **J Nutr** 1997 May;127(5 Suppl):795S–800S (44 ref.)

An overview of recent developments in avian lipoprotein metabolism. Elkin RG. **J Nutr** 1997 May;127(5 Suppl):793S–794S (9 ref.)

The pharmacokinetics of a single intramuscular dose of amikacin in red–tailed hawks (Buteo jamaicensis). Bloomfield RB, et al. **J Zoo Wildl Med** 1997 Mar; 28(1):55–61

Disposition of single–dose intravenously administered amikacin in emus (Dromaius novaehollandiae). Helmick KE, et al. **J Zoo Wildl Med** 1997 Mar;28(1):49–54

Disposition of single–dose intravenously administered enrofloxacin in emus (Dromaius novaehollandiae). Helmick KE, et al. **J Zoo Wildl Med** 1997 Mar;28(1):43–8

A test for passive absorption of glucose in yellow–rumped warblers and its ecological implications. Afik D, et al. **Physiol Zool** 1997 May–Jun;70(3):370–7

Validation of the doubly labeled water method in bald eagles (Haliaeetus leucocephalus) and a comparison of two equations for the calculation of energy expenditure. Dykstra CR, et al. **Physiol Zool** 1997 Jan–Feb;70(1):19–26

The energy assimilation efficiency of emperor penguins, Aptenodytes forsteri, fed a diet of Antarctic krill, Euphausia superba. Kirkwood R, et al. **Physiol Zool** 1997 Jan–Feb;70(1):27–32

Concentration and bioaccumulation of organochlorine pesticide residues in herons and their prey in wetlands of Thermaikos Gulf, Macedonia, Greece. Albanis TA, et al. **Sci Total Environ** 1996 Apr 5;182(1–3):11–9

Concentrations and biomagnification of polychlorinated naphthalenes in black cormorants Phalacrocorax carbo sinensis from the Gulf of Gdańsk, Baltic Sea. Falandysz J, et al. **Sci Total Environ** 1997 Sep 19;204(1):97–106

Lead levels in exposed herring gulls: differences in the field and laboratory. Burger J, et al. **Toxicol Ind Health** 1997 Mar–Jun;13(2–3):193–202

MICROBIOLOGY

Competence of a migratory bird, red–bellied thrush (Turdus chrysolaus), as an avian reservoir for the Lyme disease spirochetes in Japan. Miyamoto K, et al. **Acta Trop** 1997 Apr 30;65(1):43–51

Serosurvey for Cowdria ruminantium, Coxiella burnetii, and Spotted fever group rickettsiae in ostriches (Struthio camelus) from Zimbabwe. Kelly PJ, et al. **Avian Dis** 1996 Apr–Jun;40(2):448–52

Campylobacter spp. and Salmonella spp. in black–headed gulls (Larus ridibundus). Sixl W, et al. **Cent Eur J Public Health** 1997 Mar;5(1):24–6

Role of grey squirrels and pheasants in the transmission of Borrelia burgdorferi sensu lato, the Lyme disease spirochaete, in the U.K. Craine NG, et al. **Folia Parasitol (Praha)** 1997;44(2):155–60

Prevalence of Listeria sp. in droppings from urban rooks (Corvus frugilegus). Bouttefroy A, et al. **J Appl Microbiol** 1997 May;82(5):641–7

Two new serovars of Chlamydia psittaci from North American birds. Andersen AA. **J Vet Diagn Invest** 1997 Apr;9(2):159–64

Infectivity and persistence of Salmonella Typhimurium for zebra finches (Poephila guttata) isolated from the same species. Sato Y, et al. **J Vet Med Sci** 1996 Sep;58(9):845–8

Infectivity and persistence of Salmonella typhimurium for bengalees, a variety of Lonchura striata, using an isolate from a bengalee. Sato Y. **J Vet Med Sci** 1996 Dec; 58(12):1175–9

[Studies on the ecological behavior of Cryptococcus neoformans] Kielstein P. **Mycoses** 1996;39 Suppl 1:113–7 (Eng. Abstr.) **(Ger)**

[Role of starlings in the diffusion of Listeria monocytogenes and Listeria spp] Simili M, et al. **Ann Ig** 1996 Sep–Oct; 8(5):543–6 (Eng. Abstr.) **(Ita)**

PARASITOLOGY

Parasite diversity in an endemic region for avian malaria and identification of a parasite causing penguin mortality. McConkey GA, et al. **J Eukaryot Microbiol** 1996 Sep–Oct; 43(5):393–9

Hypopi (Acari: Hypoderatidae) from the roseate spoonbill (Aves: Ciconiiformes; Threskiornithidae). Pence DB, et al. **J Med Entomol** 1996 Mar;33(2):244–9

Hypopi (Acari:Hypoderatidae) from owls (Aves:Strigiformes:Strigidae). Pence DB, et al. **J Med Entomol** 1996 Sep;33(5):828–34

Redescription of Alcedinectes alcyon (Acari:Hypoderatidae) from the belted kingfisher (Aves:Coraciiformes; Alcedinidae). Pence DB, et al. **J Med Entomol** 1996 Sep; 33(5):772–6

Neottialges neopelagicus new species (Acari:Hypoderatidae) from the pelagic cormorant (Aves:Phalacrocoracidae:Pelecaniformes). Pence DB, et al. **J Med Entomol** 1997 Jan;34(1):33–7

Synhimantus (Synhimantus) magnipapillatus n. sp. (Nematoda, Acuarioidea) from the Yellow–crowned Night–heron, Nyctanassa violacea cayennensis (Gmelin) (Aves, Ardeidae). Júlio Vicente J, et al. **Mem Inst Oswaldo Cruz** 1996 Jan–Feb;91(1):51–3

A checklist of helminths from the respiratory system and gastrointestinal tracts of African Anatidae. Alexander SJ, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):5–16

Great tits Parus major trade health for reproduction. Ots I, et al. **Proc R Soc Lond B Biol Sci** 1996 Nov 22; 263(1376):1443–7

Fatal microfilarial infection in red billed blue magpies (Urocissa erythrorhynchus). Simpson VR, et al. **Vet Rec** 1996 May 25;138(21):522–3

[Collecting with the flagging method and fixing on man of Ixodes (Trichotoixodes) frontalis (Panzer, 1795)] Gilot B, et al. **Parasite** 1997 Jun;4(2):197–9 (Eng. Abstr.) **(Fre)**

[Phalocrocorax olivaceus (Aves: Phalacrocoracidae), a new vector of Henneguya sp. in aquatic ecosystems from southern Chile] Figueroa L, et al. **Bol Chil Parasitol** 1995 Jul–Dec;50(3–4):101–2 (Eng. Abstr.) **(Spa)**

[Gastrointestinal parasitism in the common partridge (Nothoprocta perdicaria) in the Nuble Zone, Chile] Rubilar L, et al. **Bol Chil Parasitol** 1996 Jan–Jun;51(1–2):35–7 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Clinical perspectives of intravenous ketamine anaesthesia in peafowl (Pavo cristatus). Athar M, et al. **Acta Vet Hung** 1996;44(3):357–61

A new device for monitoring gastric pH in free–ranging animals. Peters G. **Am J Physiol** 1997 Sep;273(3 Pt 1):G748–53

Neurobiology of avian social organization. Effects of lateral septum lesions in a territorial songbird, the field sparrow (Spizella pusilla), and a colonial songbird, the zebra finch (Taeniopygia guttata). Goodson JL, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:518–21

Reproductive and morphological effects of o,p'–dicofol on two generations of captive American kestrels. MacLellan KN, et al. **Arch Environ Contam Toxicol** 1996 Mar; 30(3):364–72

Behavior of captive american kestrels hatched from o,p'–dicofol exposed females. MacLellan KN, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):411–5

Effects of polyhalogenated aromatic hydrocarbons and related contaminants on common tern reproduction: integration of biological, biochemical, and chemical data. Murk AJ, et al. **Arch Environ Contam Toxicol** 1996 Jul; 31(1):128–40

Development of food–storing and the hippocampus in juvenile marsh tits (Parus palustris). Clayton NS. **Behav Brain Res** 1996 Jan;74(1–2):153–9

Food storing does not affect hippocampal volume in experienced adult willow tits. Cristol DA. **Behav Brain Res** 1996 Nov;81(1–2):233–6

Hippocampal volume in migratory and non–migratory warblers: effects of age and experience. Healy SD, et al. **Behav Brain Res** 1996 Nov;81(1–2):61–8

No sex difference occurs in hippocampus, food–storing, or memory for food caches in black–capped chickadees. Petersen K, et al. **Behav Brain Res** 1996 Sep;79(1–2):15–22

Activity–dependent plasticity in visual forebrain areas of the zebra finch. Rollenhagen A, et al. **Behav Brain Res** 1996 Nov;81(1–2):207–13

Hippocampus and memory in a food–storing and in a nonstoring bird species. Hampton RR, et al. **Behav Neurosci** 1996 Oct;110(5):946–64

Hippocampal lesions impair memory for location but not color in passerine birds. Hampton RR, et al. **Behav Neurosci** 1996 Aug;110(4):831–5

A comparative study between mature ostriches (Struthio camelus) and adult cockerels with regard to the true and apparent digestibilities of amino acids. Cilliers SC, et al. **Br Poult Sci** 1997 Jul;38(3):311–3

Feeding and pecking behaviour in ostrich (Struthio camelus) chicks in captivity. Paxton CG, et al. **Br Poult Sci** 1997 May;38(2):151–5

Repeatability and phenotypic correlations for body weight and reproduction in commercial ostrich breeding pairs. van Schalkwyk SJ, et al. **Br Poult Sci** 1996 Dec;37(5):953–62

Food storing and the hippocampus in Paridae. Healy SD, et al. **Brain Behav Evol** 1996;47(4):195–9

A putative 5 alpha–reductase inhibitor demasculinizes portions of the zebra finch song system. Grisham W, et al. **Brain Res** 1997 Mar 7;750(1–2):122–8

Seasonal plasticity in the song nuclei of wild rufous–sided towhees. Smith GT. **Brain Res** 1996 Sep 23;734(1–2):79–85

The avian somatosensory system: the pathway from wing to Wulst in a passerine (Chloris chloris). Wild JM. **Brain Res** 1997 Jun 6;759(1):122–34

A non–thalamic pathway contributes to a whole body map in the brain of the budgerigar. Wild JM, et al. **Brain Res** 1997 Apr 25;755(1):137–41

Physiological constraints in the aerobic performance of hummingbirds. Bicudo JE, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1139–45

Effects on young american kestrels (Falco sparverius) exposed to Beauveria bassiana bioinsecticide. Althouse CM, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):507–12

Organochlorines in eggs and food organisms of avocets (Recurvirostra avosetta). Dietrich S, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):219–26

Behavioral problems of farmed ostriches in Canada. Samson J. **Can Vet J** 1996 Jul;37(7):412–4 (6 ref.)

Season and migration alters the corticosterone response to capture and handling in an Arctic migrant, the white–crowned sparrow (Zonotrichia leucophrys gambelii). Romero LM, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Feb;116(2):171–7

Bird song: of tone and tempo in the telencephalon. Mooney R, et al. **Curr Biol** 1997 May 1;7(5):R289–91 (10 ref.)

Sexual differentiation of the brain in songbirds. Arnold AP, et al. **Dev Neurosci** 1996;18(1–2):124–36 (88 ref.)

Symposium on sensorimotor circuits controlling behavioral functions in birds. In honour of Prof. Dr. Jacob L. Duddeldam. **Eur J Morphol** 1997 Oct;35(4):209–325

Sensory representation in the cerebellum and control circuits of motion. Arends JJ. **Eur J Morphol** 1997 Oct;35(4):234–45 (94 ref.)

On the structure and function of the tectofugal visual pathway in laterally eyed birds. Bischof HJ, et al. **Eur J Morphol** 1997 Oct;35(4):246–54 (72 ref.)

Changes in thyroid activity during the annual sexual cycle of a wild avian species, the tree pie Dendrocitta vagabunda. Chaudhuri S, et al. **Eur J Morphol** 1996 Nov;34(4):321–4

Visual lateralization in birds: from neurotrophins to cognition? Güntürkün O. **Eur J Morphol** 1997 Oct; 35(4):290–302 (69 ref.)

Diurnal sensitivity of the testes to exogenous testosterone propionate in sexually regressed whitethroated munia Lonchura malabarica. Maitra SK, et al. **Eur J Morphol** 1995 Nov;33(5):457–64

Functional anatomy of neural pathways contributing to the control of song production in birds. Wild JM. **Eur J Morphol** 1997 Oct;35(4):303–25 (153 ref.)

Contribution of the forebrain archistriatal gaze fields to auditory orienting behavior in the barn owl. Knudsen EI, et al. **Exp Brain Res** 1996 Feb;108(1):23–32

Photorefractoriness in European starlings (Sturnus vulgaris) is not dependent upon the long–day–induced rise in plasma thyroxine. Bentley GE, et al. **Gen Comp Endocrinol** 1997 Sep;107(3):428–38

Photoperiodic condition modulates the effects of testosterone on song control nuclei volumes in male European starlings. Bernard DJ, et al. **Gen Comp Endocrinol** 1997 Feb; 105(2):276–83

Changes in bioactive prolactin–like activity in plasma and its relationship to incubation behavior in breeding ring doves. Buntin JD, et al. **Gen Comp Endocrinol** 1996 May; 102(2):221–32

The thyroid and the hypothalamus–pituitary–ovarian axis in American tree sparrows (Spizella arborea). Reinert BD, et al. **Gen Comp Endocrinol** 1996 Jul;103(1):60–70

Thyroid dysfunction and thyroxine–dependent programming of photoinduced ovarian growth in American tree sparrows (Spizella arborea). Reinert BD, et al. **Gen Comp Endocrinol** 1996 Jul;103(1):71–81

Seasonal variation of LH, sex steroids, body mass, molt, display, and laying in two subspecies of Houbara bustard, Chlamydotis undulata macqueenii and Chlamydotis undulata undulata, housed in outdoor cages under natural conditions. Saint Jalme M, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):102–12

A role for pancreatic hormones in the regulation of autumnal fat deposition of the garden warbler (Sylvia borin)? Totzke U, et al. **Gen Comp Endocrinol** 1997 Aug;107(2):166–71

The timing of thyroid–dependent programming in seasonally breeding male American tree sparrows (Spizella arborea). Wilson FE, et al. **Gen Comp Endocrinol** 1996 Jul; 103(1):82–92

Effects of day length and temperature on gonadal development, body mass, and fat depots in white–crowned sparrows, Zonotrichia leucophrys pugetensis. Wingfield JC, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):44–62

Mechanisms of vocal production in budgerigars (Melopsittacus undulatus). Brittan–Powell EF, et al. **J Acoust Soc Am** 1997 Jan;101(1):578–89

Response to avian sedation evaluation [letter; comment] Harrison GJ. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):1992–3. Comment on: J Am Vet Med Assoc 1996 Sep 1;209(5):969–71.

Use of xylazine, butorphanol, tiletamine–zolazepam, and isoflurane for induction and maintenance of anesthesia in ratites. Lin HC, et al. **J Am Vet Med Assoc** 1997 Jan 15; 210(2):244–8

Food as a circadian Zeitgeber for house sparrows: the effect of different food access durations. Hau M, et al. **J Biol Rhythms** 1996 Sep;11(3):196–207

Seasonal timing of reproduction in a tropical bird, the Seychelles warbler: a field experiment using translocation. Komdeur J. **J Biol Rhythms** 1996 Dec;11(4):333–46

Axonal connections of the medial magnocellular nucleus of the anterior neostriatum in zebra finches. Foster EF, et al. **J Comp Neurol** 1997 Jun 9;382(3):364–81

Low–frequency pathway in the barn owl's auditory brainstem. Köppl C, et al. **J Comp Neurol** 1997 Feb 10; 378(2):265–82

Neurogenesis in juvenile and adult ring doves. Ling C, et al. **J Comp Neurol** 1997 Mar 10;379(2):300–12

Seasonal changes in the size of the avian song control nucleus HVC defined by multiple histological markers. Smith GT, et al. **J Comp Neurol** 1997 May 12;381(3):253–61

Auditory pathways of caudal telencephalon and their relation to the song system of adult male zebra finches. Vates GE, et al. **J Comp Neurol** 1996 Mar 18;366(4):613–42

Organization of afferent and efferent projections of the nucleus basalis prosencephali in a passerine, Taeniopygia guttata. Wild JM, et al. **J Comp Neurol** 1996 Feb 5; 365(2):306–28

The effects of nerve growth factor and anti–nerve growth factor antibody on the neuroendocrine reproductive system in the European starling Sturnus vulgaris. Bentley GE, et al. **J Comp Physiol [A]** 1997 Aug;181(2):133–41

The photoperiodic clock is blackheaded buntings (Emberiza melanocephala) is mediated by a self–sustaining circadian system. Kumar V, et al. **J Comp Physiol [A]** 1996; 179(1):59–64

Prey ingestion revealed by oesophagus and stomach temperature recordings in cormorants. Ancel A, et al. **J Exp Biol** 1997 Jan;200 (Pt 1):149–54

Transient hovering performance of hummingbirds under conditions of maximal loading. Chai P, et al. **J Exp Biol** 1997 Mar;200 (Pt 5):921–9

Hummingbird hovering performance in hyperoxic heliox: effects of body mass and sex. Chai P, et al. **J Exp Biol** 1996 Dec;199 (12):2745–55

Limits to flight energetics of hummingbirds hovering in hypodense and hypoxic gas mixtures. Chai P, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2285–95

Post–dive blood lactate concentrations in emperor penguins, Aptenodytes forsteri. Ponganis PJ, et al. **J Exp Biol** 1997 Jun;200 (Pt 11):1623–6

Body temperatures of free–living African penguins (Spheniscus demersus) and bank cormorants (Phalacrocorax neglectus). Wilson RP, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2215–23

Use of PG–21 immunocytochemistry to detect androgen receptors in the songbird brain. Smith GT, et al. **J Histochem Cytochem** 1996 Sep;44(9):1075–80

Comparative study of the digestive system of three species of tinamou. I. Crypturellus tataupa, Nothoprocta cinerascens, and Nothura maculosa (Aves: tinamidae). Chikilian M, et al. **J Morphol** 1996 Apr;228(1):77–88

Distribution of aromatase–immunoreactive cells in the forebrain of zebra finches (Taeniopygia guttata): implications for the neural action of steroids and nuclear definition in the avian hypothalamus. Balthazart J, et al. **J Neurobiol** 1996 Oct;31(2):129–48

Age– and behavior–related variation in volumes of song control nuclei in male European starlings. Bernard DJ, et al. **J Neurobiol** 1996 Jul;30(3):329–39

Steroid accumulation in song nuclei of a sexually dimorphic duetting bird, the rufous and white wren. Brenowitz EA, et al. **J Neurobiol** 1996 Oct;31(2):235–44

Ependymal/subependymal zone cells of postnatal and adult songbird brain generate both neurons and nonneuronal siblings in vitro and in vivo. Goldman SA, et al. **J Neurobiol** 1996 Aug;30(4):505–20

Motor stereotypy and diversity in songs of mimic thrushes. Suthers RA, et al. **J Neurobiol** 1996 Jun;30(2):231–45

Immunocytochemical localization of GnRH precursor in the hypothalamus of European starlings during sexual maturation and photorefractoriness. Parry DM, et al. **J Neuroendocrinol** 1997 Mar;9(3):235–43

Responses of neurons in the auditory pathway of the barn owl to partially correlated binaural signals. Albeck Y, et al. **J Neurophysiol** 1995 Oct;74(4):1689–700

Representation of frequency in the primary auditory field of the barn owl forebrain. Cohen YE, et al. **J Neurophysiol** 1996 Dec;76(6):3682–92

Role of syringeal muscles in controlling the phonology of bird song. Goller F, et al. **J Neurophysiol** 1996 Jul; 76(1):287–300

Frequency tuning and spontaneous activity in the auditory nerve and cochlear nucleus magnocellularis of the barn owl Tyto alba. Köppl C. **J Neurophysiol** 1997 Jan; 77(1):364–77

An anatomical basis for visual calibration of the auditory space map in the barn owl's midbrain. Feldman DE, et al. **J Neurosci** 1997 Sep 1;17(17):6820–37

Selective expression of insulin–like growth factor II in the songbird brain. Holzenberger M, et al. **J Neurosci** 1997 Sep 15;17(18):6974–87

Binaural cross–correlation predicts the responses of neurons in the owl's auditory space map under conditions simulating summing localization. Keller CH, et al. **J Neurosci** 1996 Jul 1;16(13):4300–9

Phase locking to high frequencies in the auditory nerve and cochlear nucleus magnocellularis of the barn owl, Tyto alba. Köppl C. **J Neurosci** 1997 May 1;17(9):3312–21

Intracellular characterization of song–specific neurons in the zebra finch auditory forebrain. Lewicki MS. **J Neurosci** 1996 Sep 15;16(18):5855–63

Tolerance to sound intensity of binaural coincidence detection in the nucleus laminaris of the owl. Peña JL, et al. **J Neurosci** 1996 Nov 1;16(21):7046–54

Registration of neural maps through value–dependent learning: modeling the alignment of auditory and visual maps in the barn owl's optic tectum. Rucci M, et al. **J Neurosci** 1997 Jan 1;17(1):334–52

Anterior forebrain neurons develop selectivity by an intermediate stage of birdsong learning. Solis MM, et al. **J Neurosci** 1997 Aug 15;17(16):6447–62

Effects of interaural intensity difference on the processing of interaural time difference in the owl's nucleus laminaris. Viete S, et al. **J Neurosci** 1997 Mar 1;17(5):1815–24

Bengalese finches Lonchura Striata domestica depend upon auditory feedback for the maintenance of adult song. Woolley SM, et al. **J Neurosci** 1997 Aug 15;17(16):6380–90

Epigenetic factors controlling the development of avian Purkinje neurons. Jeffrey PL, et al. **J Neurosci Methods** 1996 Aug;67(2):163–75

BIRDS

Comparative and histophysiological study of oil droplets in the avian retina. Gondo M, et al. **Kobe J Med Sci** 1995 Aug;41(4):127–39

Melatonin and the phagocytic process of heterophils from the ring dove (Streptopelia risoria). Rodríguez AB, et al. **Mol Cell Biochem** 1997 Mar;168(1–2):185–90

FOS is induced by singing in distinct neuronal populations in a motor network. Kimpo RR, et al. **Neuron** 1997 Feb; 18(2):315–25

The ontogeny of the canary HVC revealed by the expression of androgen and oestrogen receptors. Gahr M, et al. **Neuroreport** 1996 Dec 20;8(1):311–5

Avian visual lateralization: a review. Güntürkün O. **Neuroreport** 1997 Apr 14;8(6):iii–xi (93 ref.)

Brain gene regulation by territorial singing behavior in freely ranging songbirds. Jarvis ED, et al. **Neuroreport** 1997 May 27;8(8):2073–7

Morphological alterations of the visual system in white zebra finches. Leminski S, et al. **Neuroreport** 1996 Jan 31; 7(2):557–61

Species and sex differences in hippocampus size in parasitic and non-parasitic cowbirds. Reboreda JC, et al. **Neuroreport** 1996 Jan 31;7(2):505–8

Early song-deprivation affects the expression of protein kinase C in the song control nuclei of the zebra finch during a sensitive period of song learning. Sakaguchi H, et al. **Neuroreport** 1997 Aug 18;8(12):2645–50

Capacity of birds for transitive inference: the solution of the Gillan test by corvids and pigeons. Zorina ZA, et al. **Neurosci Behav Physiol** 1996 Sep–Dec;26(5):454–9

Quantitative evaluations in gray crows: generalization of the relative attribute "larger set". Zorina ZA, et al. **Neurosci Behav Physiol** 1996 Jul–Aug;26(4):357–64

Nerve growth factor effects on the song control system of zebra finches. Fiore M, et al. **Neurosci Lett** 1997 Feb 28; 223(3):161–4

Lead and neurobehavioral development in gulls: a model for understanding effects in the laboratory and the field. Burger J, et al. **Neurotoxicology** 1997;18(2):495–506 (57 ref.)

Lead and behavioral development: parental compensation for behaviorally impaired chicks. Burger J, et al. **Pharmacol Biochem Behav** 1996 Nov;55(3):339–49

Growth and behavioral effects of early postnatal chromium and manganese exposure in herring gull (larus argentatus) chicks [letter; comment] Symms KG. **Pharmacol Biochem Behav** 1997 Jan;56(1):155–9. Comment on: Pharmacol Biochem Behav 1995 Apr;50(4):607–12.

Flightlessness and phylogeny amongst endemic rails (Aves:Rallidae) of the New Zealand region. Trewick SA. **Philos Trans R Soc Lond B Biol Sci** 1997 Apr 29; 352(1352):429–46

Effects of wavelength and intensity of light in initiation of body fattening and gonadal growth in a migratory bunting under complete and skeleton photoperiods. Kumar V, et al. **Physiol Behav** 1996 Aug;60(2):625–31

Artificial eggs: measuring heart rate and effects of disturbance in nesting penguins. Nimon AJ, et al. **Physiol Behav** 1996 Sep;60(3):1019–22

Physiology of diving of birds and mammals. Butler PJ, et al. **Physiol Rev** 1997 Jul;77(3):837–99 (424 ref.)

Is diet shifting facilitated by modulation of intestinal nutrient uptake? Test of an adaptational hypothesis in yellow-rumped warblers. Afik D, et al. **Physiol Zool** 1997 Mar–Apr;70(2):213–21

Respiratory exchange and ventilation during nocturnal torpor in hummingbirds. Bucher TL, et al. **Physiol Zool** 1997 Jan–Feb;70(1):45–52

Age-related changes of plasma alkaline phosphatase and inorganic phosphorus, and late ossification of the cranial roof in the Spanish imperial eagle (Aquila adalberti C. L. Brehm, 1861). Dobado-Berrios PM, et al. **Physiol Zool** 1997 Jul–Aug;70(4):421–7

Sugar digestion efficiencies of Gurney's sugarbirds, malachite sunbirds, and black sunbirds. Downs CT. **Physiol Zool** 1997 Jan–Feb;70(1):93–9

Corticosterone and the stress response in young western screech-owls: effects of captivity, gender, and activity period. Dufty AM Jr, et al. **Physiol Zool** 1997 Mar–Apr; 70(2):143–9

Renal glomerular and tubular effects of antidiuretic hormone and two antidiuretic hormone analogues in house sparrows (Passer domesticus). Goecke CS, et al. **Physiol Zool** 1997 May–Jun;70(3):283–91

Timing of the calcium intake and effect of calcium deficiency on behaviour and egg laying in captive great tits, Parus major. Graveland J, et al. **Physiol Zool** 1997 Jan–Feb; 70(1):74–84

Effect of tannins on galliform cecal partitioning. Hewitt DG, et al. **Physiol Zool** 1997 Mar–Apr;70(2):175–80

Composition of fuel stores and digestive limitations to fuel deposition rate in the long-distance migratory thrush nightingale, Luscinia luscinia. Klaassen M, et al. **Physiol Zool** 1997 Jan–Feb;70(1):125–33

Corticosterone, reproductive status, and body mass in a cooperative breeder, the Florida scrub-jay (Aphelocoma coerulescens). Schoech SJ, et al. **Physiol Zool** 1997 Jan–Feb;70(1):68–73

On the thermal capacity of a bird's egg warmed by a brood patch. Turner JS. **Physiol Zool** 1997 Jul–Aug;70(4):470–80

Eggshell conductance and other functional qualities of ostrich eggs. Christensen VL, et al. **Poult Sci** 1996 Nov; 75(11):1404–10

Semen production by the emu (Dromaius novaehollandiae). 1. Methods for collection of semen. Malecki IA, et al. **Poult Sci** 1997 Apr;76(4):615–21

Semen production by the emu (Dromaius novaehollandiae). 2. Effect of collection frequency on the production of semen and spermatozoa. Malecki IA, et al. **Poult Sci** 1997 Apr;76(4):622–6

Ultraviolet plumage colors predict mate preferences in starlings. Bennett ATD, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8618–21

Sex ratio adjustment in relation to paternal attractiveness in a wild bird population. Ellegren H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11723–8

Motor-driven gene expression. Jarvis ED, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4097–102

Avian vocalizations and phylogenetic signal. McCracken KG, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):3833–6

Representation of sound localization cues in the auditory thalamus of the barn owl. Proctor L, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10421–5

Immunocompetence, ornamentation, and viability of male barn swallows (Hirundo rustica). Saino N, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):549–52

Evidence for a peak-shift in predator generalization among aposematic prey. Gamberale G, et al. **Proc R Soc Lond B Biol Sci** 1996 Oct 22;263(1375):1329–34

Great tits Parus major trade health for reproduction. Ots I, et al. **Proc R Soc Lond B Biol Sci** 1996 Nov 22; 263(1376):1443–7

A history of studies of visual accommodation in birds [published erratum appears in Q Rev Biol 1997 Jun;72(2):134] Glasser A, et al. **Q Rev Biol** 1996 Dec; 71(4):475–509

Quantal duration of auditory memories [see comments] Chew SJ, et al. **Science** 1996 Dec 13;274(5294):1909–14. Comment in: Science 1996 Dec 13;274(5294):1851–3.

Plasticity of a different feather? [comment] Doupe AJ. **Science** 1996 Dec 13;274(5294):1851–3. Comment on: Science 1996 Dec 13;274(5294):1909–14.

The stability and persistence of mutualisms embedded in community interactions. Ringel MS, et al. **Theor Popul Biol** 1996 Dec;50(3):281–97

Sex reversal in birds [letter] Allen E, et al. **Vet Rec** 1997 Jun 14;140(24):636

Use of rabbits in ostrich rearing [letter] Madeiros CA. **Vet Rec** 1997 Jun 28;140(26):688

[Acoustically guided behavior in the early ontogeny of the long-eared owl: the development of hearing sensitivity] Golubeva TV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar–Apr;46(2):317–27 (Eng. Abstr.) **(Rus)**

[The numerousness judgement by the hooded crow of a set consisting of 12–25 elements] Zorina ZA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar–Apr; 46(2):389–92 **(Rus)**

SURGERY

Tibiotarsal fracture repair in a scarlet macaw using external skeletal fixation. Kavanagh M. **J Small Anim Pract** 1997 Jul;38(7):296–8

VIROLOGY

Cross-protection test of an avian poxvirus isolated from houbara bustards. Ostrowski S, et al. **Avian Dis** 1996 Oct–Dec;40(4):762–9

Isolation of paramyxovirus serotype 7 from ostriches (Struthio camelus). Woolcock PR, et al. **Avian Dis** 1996 Oct–Dec;40(4):945–9

Comparison of Newcastle disease viruses isolated from cormorants in Canada and the USA in 1975, 1990 and 1992. Heckert RA, et al. **Can J Vet Res** 1996 Jan;60(1):50–4

Isolation and identification of avian rotavirus from pheasant chicks with signs of clinical enteritis. Legrottaglie R, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun; 20(3):205–10

Eastern equine encephalitis transmission to emus (Dromaius novaehollandiae) in Volusia County, Florida: 1992 through 1994. Day JF, et al. **J Am Mosq Control Assoc** 1996 Sep; 12(3 Pt 1):429–36

Protein architecture of avian reovirus S1133 and identification of the cell attachment protein. Martínez-Costas J, et al. **J Virol** 1997 Jan;71(1):59–64

BIREFRACTION see **BIREFRINGENCE**

BIREFRINGENCE

A numerical test of the normal incidence uniaxial model of corneal birefringence. Donohue DJ, et al. **Cornea** 1996 May;15(3):278–85

BIRNAVIRIDAE

[Molecular biology of fish birnaviruses and its application] Suzuki S. **Uirusu** 1996 Jun;46(1):73–8 (32 ref.) **(Jpn)**

GENETICS

Sequence analysis of the bicistronic Drosophila X virus genome segment A and its encoded polypeptides. Chung HK, et al. **Virology** 1996 Nov 15;225(2):359–68

BIRNAVIRIDAE INFECTIONS

BLOOD

Plasma alpha 1-acid glycoprotein in chickens infected with infectious bursal disease virus. Inoue M, et al. **Avian Dis** 1997 Jan–Mar;41(1):164–70

DIAGNOSIS

Infectious bursal disease viral RNA amplification using RT/PCR from bursa tissue following phenol: chloroform inactivation of the virus. Jackwood DJ, et al. **Avian Dis** 1996 Apr–Jun;40(2):457–60

IMMUNOLOGY

Influence of the host system on the pathogenicity, immunogenicity, and antigenicity of infectious bursal disease virus. Hassan MK, et al. **Avian Dis** 1996 Jul–Sep; 40(3):553–61

Proliferation and apoptosis in infection with infectious bursal disease virus: a flow cytometric study. Ojeda F, et al. **Avian Dis** 1997 Apr–Jun;41(2):312–6

Enzyme-linked immunosorbent assay-based detection of antibodies to antigenic subtypes of infectious bursal disease viruses of chickens. Jackwood DJ, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):456–63

PATHOLOGY

Proliferation and apoptosis in infection with infectious bursal disease virus: a flow cytometric study. Ojeda F, et al. **Avian Dis** 1997 Apr–Jun;41(2):312–6

Morphological evidence of apoptosis in chickens infected with infectious bursal disease virus. Lam KM. **J Comp Pathol** 1997 May;116(4):367–77

VETERINARY

Sequence comparisons of the variable VP2 region of eight infectious bursal disease virus isolates. Dormitorio TV, et al. **Avian Dis** 1997 Jan–Mar;41(1):36–44

Detection of infectious bursal disease viruses in commercially reared chickens using the reverse transcriptase/polymerase chain reaction-restriction endonuclease assay. Jackwood DJ, et al. **Avian Dis** 1997 Jan–Mar;41(1):137–43

Further development and use of a molecular serotype identification test for infectious bronchitis virus. Jackwood MW, et al. **Avian Dis** 1997 Jan–Mar;41(1):105–10

History of infectious bursal disease in the U.S.A.--the first two decades. Lasher HN, et al. **Avian Dis** 1997 Jan–Mar; 41(1):11–9 (54 ref.)

Insect cell-derived VP2 of infectious bursal disease virus confers protection against the disease in chickens. Pitcovski J, et al. **Avian Dis** 1996 Oct–Dec;40(4):753–61

Enzyme-linked immunosorbent assay-based detection of antibodies to antigenic subtypes of infectious bursal disease viruses of chickens. Jackwood DJ, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):456–63

Immunization with viral antigens: infectious pancreatic necrosis. Christie KE. **Dev Biol Stand** 1997;90:191–9 (54 ref.)

Morphological evidence of apoptosis in chickens infected with infectious bursal disease virus. Lam KM. **J Comp Pathol** 1997 May;116(4):367–77

Susceptibility of chicken embryos to highly virulent infectious bursal disease virus. Takase K, et al. **J Vet Med Sci** 1996 Nov;58(11):1129–31

Poultry virus infection in Antarctic penguins [letter] Gardner H, et al. **Nature** 1997 May 15;387(6630):245

Coagglutination test for rapid detection of infectious bursal disease virus antigen. Shakya S, et al. **Trop Anim Health Prod** 1997 May;29(2):105–7

Clinical infectious pancreatic necrosis virus infection in farmed halibut in the United Kingdom. Rodger HD, et al. **Vet Rec** 1997 Apr 12;140(15):401–2

The characterization of infectious bursal disease virus strains/isolates from field outbreaks in India. Pahar B, et al. **Vet Res Commun** 1997 May;21(4):289–301

Passive protection of specific pathogen free chicks against infectious bursal disease by in-ovo injection of semi-purified egg-yolk antiviral immunoglobulins. Eterradossi N, et al. **Zentralbl Veterinarmed [B]** 1997 Aug; 44(6):371–83

BIRTH see **LABOR**

BIRTH CERTIFICATES

Constructing reproductive histories by linking vital records. Adams MM, et al. **Am J Epidemiol** 1997 Feb 15; 145(4):339–48

Accuracy of birth certificate data regarding the amount, timing, and adequacy of prenatal care using prenatal clinic medical records as referents. Clark K, et al. **Am J Epidemiol** 1997 Jan 1;145(1):68–71

The quality of data reported on birth certificates [letter; comment] Kirby RS. **Am J Public Health** 1997 Feb; 87(2):301. Comment on: Am J Public Health 1996 May;86(5):731–4.

Nordic Medical Birth Registers in epidemiological research. Gissler M, et al. **Eur J Epidemiol** 1997 Feb;13(2):169–75 (28 ref.)

Registration of births, stillbirths and infant deaths in Jamaica.

McCaw-Binns AM, et al. **Int J Epidemiol** 1996 Aug; 25(4):807–13

Assessment of gestational age using birth certificate data compared with medical record data. Emery ES 3rd, et al. **Paediatr Perinat Epidemiol** 1997 Jul;11(3):313–21

The quality of vital perinatal statistics data, with special reference to prenatal care [comment] Kirby RS. **Paediatr Perinat Epidemiol** 1997 Jan;11(1):122–8. Comment on: Paediatr Perinat Epidemiol 1997 Jan;11(1):105–21.

Diabetes and congenital malformations [letter; comment] Kirby RS. **Paediatr Perinat Epidemiol** 1996 Oct; 10(4):469–76. Comment on: Paediatr Perinat Epidemiol 1996 Jan;10(1):52–63.

Evaluation of prenatal care information on birth certificates [see comments] McDermott J, et al. **Paediatr Perinat Epidemiol** 1997 Jan;11(1):105–21. Comment in: Paediatr Perinat Epidemiol 1997 Jan;11(1):122–8.

BIRTH CONTROL see **FAMILY PLANNING**

BIRTH DEFECTS see **ABNORMALITIES**

BIRTH INJURIES

Nose deformation as a result of birth injury. Spiewak P, et al. **Acta Chir Plast** 1995;37(3):78–82

Obstetric brachial plexus injury in subsequent deliveries. al-Qattan MM, et al. **Ann Plast Surg** 1996 Nov;37(5):545–8

Skull fracture caused by vacuum extraction [see comments] Hickey K, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):671–3 . Comment in: Obstet Gynecol 1997 Feb;89(2);319.

COMPLICATIONS

Birth trauma causing nasal vestibular stenosis. Jablon JH, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep; 123(9):1004–6 (10 ref.)

Radiological case of the month. Rib fractures produced by birth trauma. Hartmann RW Jr. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):947–8

Neonatal thymic haemorrhage. Bees NR, et al. **Br J Radiol** 1997 Feb;70:210–2

The role of birth injury and the consequences of inadequately treated hypogonadism in longstanding panhypopituitarism. Wettstein M, et al. **Conn Med** 1996 Oct;60(10):583–6

Traumatic pharyngeal pseudo diverticulum. Gupta AK. **Indian Pediatr** 1996 Dec;33(12):1075–6

Infantile dislocation of the elbow complicating obstetric palsy. Cummings RJ, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):589–93

DIAGNOSIS

[Obstetrical separation of inferior humeral epiphysis: a case report] Occhi M, et al. **Radiol Med (Torino)** 1996 Dec; 92(6):788–90 **(Ita)**

DRUG THERAPY

[A trial of the use of the multivitamin Multitabs in the combined treatment of patients with a perinatal brain lesion] Kravchenko SV. **Lik Sprava** 1997 Mar–Apr; (2):101–4 (Eng. Abstr.) **(Rus)**

ECONOMICS

Characteristics of successful claims for payment by the Florida Neurologic Injury Compensation Association Fund. Stalnaker BL, et al. **Am J Obstet Gynecol** 1997 Aug; 177(2):268–71; discussion 271–3

EPIDEMIOLOGY

Incidence of persistent birth injury in macrosomic infants: association with mode of delivery. Kolderup LB, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):37–41

A retrospective analysis of Erb's palsy cases and their relation to birth weight and trauma at delivery. Graham EM, et al. **J Matern Fetal Med** 1997 Jan–Feb;6(1):1–5

Birth trauma. A five-year review of incidence and associated perinatal factors. Perlow JH, et al. **J Reprod Med** 1996 Oct;41(10):754–60 (22 ref.)

Birth weight as a predictor of brachial plexus injury [letter] Gittens L, et al. **Obstet Gynecol** 1997 Sep;90(3):479

Birth weight as a predictor of brachial plexus injury [letter] Sandmire HF. **Obstet Gynecol** 1997 Sep;90(3):479–80

ETIOLOGY

Incidence of persistent birth injury in macrosomic infants: association with mode of delivery. Kolderup LB, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):37–41

Case report: unilateral combined facial nerve and brachial plexus palsies in a neonate following a midlevel forceps delivery. de Chalain TM, et al. **Ann Plast Surg** 1997 Feb; 38(2):187–90 (27 ref.)

Multifactorial inheritance of non-syndromic macrocephaly. Arbour L, et al. **Clin Genet** 1996 Aug;50(2):57–62

Between doctor and patient. Capron AM. **Hastings Cent Rep** 1996 Sep–Oct;26(5):23–4

A retrospective analysis of Erb's palsy cases and their relation to birth weight and trauma at delivery. Graham EM, et al. **J Matern Fetal Med** 1997 Jan–Feb;6(1):1–5

Neonatal intracerebellar hemorrhage after forceps delivery. Report of a case without neurologic damage. Rijhsinghani A, et al. **J Reprod Med** 1997 Feb;42(2):127–30

Permanent Erb palsy: a traction related injury? [letter; comment] Acker D. **Obstet Gynecol** 1997 May;89(5 Pt 1):797. Comment on: Obstet Gynecol 1997 Jan;89(1):139–41.

Birth weight as a predictor of brachial plexus injury. Ecker JL, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):643–7

Skull fracture caused by vacuum extraction [letter; comment] Ross MG. **Obstet Gynecol** 1997 Feb;89(2):319. Comment on: Obstet Gynecol 1996 Oct;88(4 Pt 2):671–3.

Vacuum extraction: does duration predict scalp injury? Teng FY, et al. **Obstet Gynecol** 1997 Feb;89(2):281–5

[Brachial plexus injuries in newborn infants] Rootwelt T, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2445–8 (Eng. Abstr.) **(Nor)**

MORTALITY

[Birth injuries to the liver in deceased newborns in relation to the means of delivery] Vakrilova L, et al. **Akush Ginekol (Sofiia)** 1996;35(4):8–10 (Eng. Abstr.) **(Bul)**

PHYSIOPATHOLOGY

Effects of external calcium on contractile responses in rat extensor digitorum longus muscles after sciatic nerve injury at birth. Louboutin JP, et al. **Muscle Nerve** 1996 Nov; 19(11):1421–8

[Involuntary movements and birth injuries to brain] Kodama K. **No To Hattatsu** 1997 May;29(3):220–6 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Perinatal outcome and the type and number of maneuvers in shoulder dystocia. McFarland MB, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):219–24

Shoulder dystocia and operative vaginal delivery. Bofill JA, et al. **J Matern Fetal Med** 1997 Jul–Aug;6(4):220–4

Is macrosomia predictable, and are shoulder dystocia and birth trauma preventable? Gonen R, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):526–9

PSYCHOLOGY

Adult sensory capacities as a function of birth risk factors. Harland RE, et al. **J Clin Exp Neuropsychol** 1996 Jun; 18(3):394–405

RADIOGRAPHY

Detection of nerve rootlet avulsion on CT myelography in patients with birth palsy and brachial plexus injury after trauma. Walker AT, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1283–7

[Radiological case of the month. Neonatal proximal tibial epiphyseal detachment] Le Masne A, et al. **Arch Pediatr** 1997 Jan;4(1):90–1 **(Fre)**

REHABILITATION

[Laser therapy in the combined health-resort treatment of children with the sequelae of a perinatal brain lesion] Babina LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul-Aug;(4):11–3 **(Rus)**

[The use of multichannel electromyostimulation in the combined sanatorium-health resort treatment of children with the sequelae of birth-related brachial plexitis] Drinevskiĭ NP, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):13–5 **(Rus)**

SURGERY

Liver laceration in premature neonate: report of a case with successful surgical treatment. Chen HW, et al. **Acta Paediatr Sin** 1996 Mar–Apr;37(2):145–7

Transposition of the bicipital tuberosity for treatment of fixed supination contracture in obstetric brachial plexus lesions. Eberhard D. **J Hand Surg [Br]** 1997 Apr;22(2):261–3

Heterotopic splenic autotransplantation in a neonate with splenic rupture, leading to normal splenic function. Yamataka A, et al. **J Pediatr Surg** 1996 Feb;31(2):239–40

Management and outcomes of posterior fossa subdural hematomas in neonates. Perrin RG, et al. **Neurosurgery** 1997 Jun;40(6):1190–9; discussion 1199–200

BIRTH INTERVALS

Child spacing and two child policy in practice in rural Vietnam: cross sectional survey. Hoa HT, et al. **BMJ** 1996 Nov 2;313(7065):1113–6

The more the merrier? Effects of family size and sibling spacing on sibling relationships. Newman J. **Child Care Health Dev** 1996 Sep;22(5):285–302 (70 ref.)

A mixture model for duration data: analysis of second births in China. Li L, et al. **Demography** 1997 May;34(2):189–97

Birth interval and pregnancy outcome. Abebe GM, et al. **East Afr Med J** 1996 Aug;73(8):552–5

Estimating the risk of breast cancer in relation to the interval since last term pregnancy [see comments] Cummings P, et al. **Epidemiology** 1997 Sep;8(5):488–94 (18 ref.). Comment in: Epidemiology 1997 Sep;8(5):471–3.

Conditions at conception and risk of menstrual disorders. Smits LJ, et al. **Epidemiology** 1997 Sep;8(5):524–9

Age at and time since: modeling temporal aspects of exposure [editorial; comment] Thompson WD. **Epidemiology** 1997 Sep;8(5):471–3 (11 ref.). Comment on: Epidemiology 1997 Sep;8(5):488–94.

Marital status and births after losing a baby from sudden infant death. Mitchell EA, et al. **Eur J Pediatr** 1996 Aug; 155(8):712–6

Birth spacing and child survival in rural Senegal. Ronsmans C. **Int J Epidemiol** 1996 Oct;25(5):989–97

The struggle of weaning: factors determining breastfeeding duration in east Bhutan. Bøhler E, et al. **Soc Sci Med** 1996 Dec;43(12):1805–15

Son preference in Vietnam. Haughton J, et al. **Stud Fam Plann** 1995 Nov–Dec;26(6):325–7

Children discharged following nutritional rehabilitation: a follow-up study [letter; comment] Hope R. **Trop Doct** 1996 Oct;26(4):198. Comment on: Trop Doct 1995 Oct;25(4):146–51.

[Birth intervals and birth of low weight infants in Benin] Fourn L, et al. **Med Trop (Mars)** 1996;56(2):163–6 (Eng. Abstr.) **(Fre)**

[The importance of time intervals between childbirth and anemia in pregnancy] Lazović N, et al. **Srp Arh Celok Lek** 1996 Nov–Dec;124(11–12):307–10 (Eng. Abstr.) **(Scc)**

BIRTH ORDER

Atopic dermatitis may be linked to whether a child is first- or second-born and/or the age of the mother. Olesen AB, et al. **Acta Derm Venereol** 1996 Nov;76(6):457–60

Homosexuality and older brothers [letter; comment] Eiberson JL. **Am J Psychiatry** 1997 Jan;154(1):136; discussion 137. Comment on: Am J Psychiatry 1996 Jan;153(1):27–31.

Homosexuality and older brothers [letter; comment] Martin JT, et al. **Am J Psychiatry** 1997 Jan;154(1):136; discussion 137. Comment on: Am J Psychiatry 1996 Jan;153(1):27–31.

Homosexuality and older brothers [letter; comment] Turner WJ. **Am J Psychiatry** 1997 Jan;154(1):136–7. Comment on: Am J Psychiatry 1996 Jan;153(1):27–31.

Decidual and placental histologic findings in patients experiencing spontaneous abortions in relation to pregnancy order. Kohut KG, et al. **Am J Reprod Immunol** 1997 Mar;37(3):257–61

Evaluating the relationships among maternal reproductive history, birth characteristics, and infant leukemia: a report from the Children's Cancer Group. Ross JA, et al. **Ann Epidemiol** 1997 Apr;7(3):172–9

Birth order and sibling sex ratio in two samples of Dutch gender-dysphoric homosexual males. Blanchard R, et al. **Arch Sex Behav** 1996 Oct;25(5):495–514

Additive effects of older brothers and homosexual brothers in the prediction of marriage and cohabitation. Blanchard R, et al. **Behav Genet** 1997 Jan;27(1):45–54

Studies exploring health in relation to intrauterine life should look at birth order [letter; comment] Odent M, et al. **BMJ** 1997 May 10;314(7091):1416. Comment on: BMJ 1997 Feb 15;314(7079):475–80.

Anorexia nervosa and bulimia nervosa: sibling sex ratio and birth rank—a catchment area study. Britto DJ, et al. **Int J Eat Disord** 1997 May;21(4):335–40

Pedophilia, sexual orientation, and birth order. Bogaert AF, et al. **J Abnorm Psychol** 1997 May;106(2):331–5

Relationship between survival status of first child and subsequent child death. Rahman MM, et al. **J Biosoc Sci** 1996 Apr;28(2):185–91

Retinopathy of prematurity in multiple-gestation, very low birth weight infants. Friling R, et al. **J Pediatr Ophthalmol Strabismus** 1997 Mar–Apr; 34(2):96–100

H-Y antigen and homosexuality in men. Blanchard R, et al. **J Theor Biol** 1997 Apr 7;185(3):373–8 (60 ref.)

The association of change in maternal marital status between births and adverse pregnancy outcomes in the second birth. Holt VL, et al. **Paediatr Perinat Epidemiol** 1997 Jan;11 Suppl 1:31–40

Birth order, suicidal preoccupation, and scores suggesting manic-depressive tendencies. Bergman KJ, et al. **Psychol Rep** 1997 Apr;80(2):442

Narcissism and birth order. Eyring WE 3rd, et al. **Psychol Rep** 1996 Apr;78(2):403–6

Hypochondria in women as a function of birth order. Skinner NF. **Psychol Rep** 1997 Jun;80(3 Pt 2):1344–6

Technology for sex selection: current status and utilization. Steinbacher R, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):728–30

Effect of birth order on incidence of periventricular-intraventricular hemorrhage in very low birth weight twins. Gibson JY, et al. **South Med J** 1996 Dec;89(12):1156–8

PSYCHOLOGY

Young children's social relationships with siblings and friends. Volling BL, et al. **Am J Orthopsychiatry** 1997 Jan; 67(1):102–11

Sibship size, sibship position, parental rearing and psychopathological manifestations in adults: preliminary analysis. Richter J, et al. **Psychopathology** 1997;30(3):155–62

BIRTH RATE

The Green Bay cesarean section study. IV. The physician

factor as a determinant of cesarean birth rates for the large fetus. Sandmire HF, et al. **Am J Obstet Gynecol** 1996 May; 174(5):1557–64

Declining sex ratios in Canada [see comments] [published erratum appears in Can Med Assoc J 1997 Feb 1;156(3):348] Allan BB, et al. **Can Med Assoc J** 1997 Jan 1;156(1):37–41 . Comment in: Can Med Assoc J 1997 Jan 1;156(1):46–8. Comment in: CMAJ 1997 Jun 15;156(12):1695.

Is Canada's sex ratio in decline? [editorial; comment] Dodds L, et al. **Can Med Assoc J** 1997 Jan 1;156(1):46–8. Comment on: Can Med Assoc J 1997 Jan 1;156(1):37–41.

Polygyny and reproductive behavior in sub–Saharan Africa: a contextual analysis. Ezeh AC. **Demography** 1997 Aug; 34(3):355–68

The effects of temperature on human fertility. Lam DA, et al. **Demography** 1996 Aug;33(3):291–305

Education and the changing age pattern of American fertility: 1963–1989. Rindfuss RR, et al. **Demography** 1996 Aug; 33(3):277–90

Livebirths and induced abortions in Italy after the Chernobyl accident [letter] Spinelli A, et al. **Epidemiology** 1996 Nov; 7(6):653–4

Testing Durkheim's theory of suicide: a comment [letter] Lester D. **Eur Arch Psychiatry Clin Neurosci** 1996; 246(2):112–3

Teenage abortion and pregnancy statistics by state, 1992. Henshaw SK. **Fam Plann Perspect** 1997 May–Jun; 29(3):115–22

The effects of economic conditions and access to reproductive health services on state abortion rates and birthrates. Matthews S, et al. **Fam Plann Perspect** 1997 Mar–Apr;29(2):52–60

Pregnancy and birth rates after oocyte donation. Remohí J, et al. **Fertil Steril** 1997 Apr;67(4):717–23

Cumulative conception and live birth rates after oocyte donation: implications regarding endometrial receptivity. Paulson RJ, et al. **Hum Reprod** 1997 Apr;12(4):835–9

Fertility and mortality indicators. Ramji S, et al. **Indian Pediatr** 1996 Oct;33(10):877–81

Association of livebirths and the resurgence of measles. Lanphear BP, et al. **Int J Epidemiol** 1997 Feb;26(1):204–11

Differential fertility and body build in !Kung San and Kavango females from northern Namibia. Kirchengast S, et al. **J Biosoc Sci** 1996 Apr;28(2):193–210

Full moon. Zimmerman JL **J Fam Pract** 1996 Nov;43(5):499

The relationship of sperm counts to birth rates: a population based study [see comments] Fisch H, et al. **J Urol** 1997 Mar;157(3):840–3. Comment in: J Urol 1997 Mar;157(3):847–8.

Births in Rhode Island, 1990–1995. Viner–Brown SI, et al. **Med Health R I** 1996 Oct;79(10):373–5

Behavior should be addressed [letter; comment] Chermol BH. **Mil Med** 1997 Feb;162(2):iv. Comment on: Mil Med 1996 Apr;161(4):214–6.

Kids having kids: the teen birth rate. Noonan SS. **N J Med** 1997 Aug;94(8):43–5

Domestic integration and suicide in Spain. Lester D, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1162

A regional study of fertility and suicide rates. Lester D. **Psychol Rep** 1996 Oct;79(2):474

Fertility and suicide. Lester D. **Psychol Rep** 1996 Oct; 79(2):482

Fertility patterns according to occupational grouping in Norway, 1989. Strand K, et al. **Scand J Soc Med** 1996 Mar;24(1):50–4

Bolivia 1994: results from the Demographic and Health Survey. **Stud Fam Plann** 1996 May–Jun;27(3):172–6

Morocco 1995: results from the Demographic and Health Survey. **Stud Fam Plann** 1996 Nov–Dec;27(6):344–8

Populations with sinusoidal birth trajectories. Kim YJ, et al. **Theor Popul Biol** 1996 Oct;50(2):105–23

[Daily number of births in Norway 1989–93. Variations across months, day of week, phase of the moon and changes in leave entitlements] Ytterstad E, et al. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1098–101 (Eng. Abstr.) **(Nor)**

[State and prospects of demographic processes in the Udmurt Republic] Ezhova NN, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Mar–Apr;(2):19–23 (Eng. Abstr.) **(Rus)**

[Social–hygienic problems of family in the Extreme North] Grinina OV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec;(6):6–10 (Eng. Abstr.) **(Rus)**

[Social–medical aspects of the demographic situation in contemporary Poland] Pogorelov YaD. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):37–42 (Eng. Abstr.) **(Rus)**

[Medical and medico–social aspects of the birth rate and mortality under current conditions] Tishuk EA. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):11–6 (Eng. Abstr.) **(Rus)**

[Characteristics of medical–demographic processes in rural regions of Russia] Veselkova IN, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec;(6):3–6 (Eng. Abstr.) **(Rus)**

[Demographic perspectives of Communidad Autonoma Vasca and the OCDE's countries] Gabiña JJ. **Rev Neurol** 1997 Jul;25 Suppl 1:S86–96 **(Spa)**

ETHNOLOGY

Racial fertility differences: the role of female employment and education in wanted and unwanted childbearing. Burr JA, et al. **Soc Biol** 1996 Fall–Winter;43(3–4):218–41

TRENDS

Induced abortions and childbirths: trends in Estonia, Latvia, Lithuania, Russia, Belarussia and the Ukraine during 1970 to 1994. Mogilevkina I, et al. **Acta Obstet Gynecol Scand** 1996 Nov;75(10):908–11

Recent secular trends in multiple birth rates [letter; comment] James WH. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul; 77(1):F77. Comment on: Arch Dis Child Fetal Neonatal Ed 1996 Jul;75(1):F10–9.

Understanding U.S. fertility: continuity and change in the National Survey of Family Growth, 1988–1995. Mosher WD, et al. **Fam Plann Perspect** 1996 Jan–Feb;28(1):4–12 (82 ref.)

Changing fertility patterns, 1974 to 1994. Ford D, et al. **Health Rep** 1996 Winter;8(3):39–46(Eng); 43–51(Fre) **(Eng, Fre)**

The fertility transition in Cuba and the Federal Republic of Korea: the impact of organised family planning. Noble J, et al. **J Biosoc Sci** 1996 Apr;28(2):211–25

From the Centers for Disease Control and Prevention. State–specific birth rates for teenagers—United States, 1990–1996. **JAMA** 1997 Oct 8;278(14):1143–4

The impact of Mississippi's mandatory delay law on abortions and births. Joyce T, et al. **JAMA** 1997 Aug 27;278(8):653–8

Twinning rates [letter; comment] Murphy M, et al. **Lancet** 1997 May 10;349(9062):1398–9. Comment on: Lancet 1997 Mar 22;349(9055):843–5.

Preliminary data on births and deaths—United States, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 25;45(42):914–9

State–specific birth rates for teenagers—United States, 1990–1996. **MMWR Morb Mortal Wkly Rep** 1997 Sep 12; 46(36):837–42

Variation in fertility between different types of local area. Armitage B. **Popul Trends** 1997 Spring;(87):20–8

Population review: (4). Trends in fertility. Armitage B, et al. **Popul Trends** 1996 Summer;(84):7–13

Trends in multiple births, 1938–1995. Wood R. **Popul Trends** 1997 Spring;(87):29–35

Reproductive change in Sri Lanka: analysis of intermediate variables, 1982 and 1987. De Silva WI. **Soc Biol** 1996 Fall–Winter;43(3–4):242–56

Factors affecting the most recent fertility rates in urban–rural Bangladesh. Khan HT, et al. **Soc Sci Med** 1997 Feb; 44(3):279–89

Reproductive preferences and fertility trends in post–transition Thailand. Knodel J, et al. **Stud Fam Plann** 1996 Nov–Dec;27(6):307–18

[Evolution of fecundity in the Valencian community during the 1975–1990 period] Más Pons R, et al. **Rev Esp Salud Publica** 1996 May–Jun;70(3):261–70 (Eng. Abstr.) **(Spa)**

BIRTH SPACING see **BIRTH INTERVALS**

BIRTH WEIGHT

see related
FETAL MACROSOMIA
INFANT, LOW BIRTH WEIGHT
INFANT, VERY LOW BIRTH WEIGHT

Cognitive development and behaviour in very low birthweight twins at four years. Dezoete JA, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(3):325–32

Reducing fetal deaths in multiple births: optimal birthweights and gestational ages for infants of twin and triplet births. Luke B. **Acta Genet Med Gemellol (Roma)** 1996; 45(3):333–48

Long–term prediction of fetal weight; the proportional extrapolation method [letter; comment] Morales–Roselló J, et al. **Acta Obstet Gynecol Scand** 1997 Jul;76(6):609–10 . Comment on: Acta Obstet Gynecol Scand 1996 Jan;75(1):28–31.

Gestational weight gain as a predictor of birth and placenta weight according to pre–pregnancy body mass index. Zhou W, et al. **Acta Obstet Gynecol Scand** 1997 Apr;76(4):300–7 (36 ref.)

Birth weight of relatives by maternal tendency to repeat small–for–gestational–age (SGA) births in successive pregnancies. Magnus P, et al. **Acta Obstet Gynecol Scand Suppl** 1997;165:35–8

The relationship between maternal dietary intake and infant birthweight. Neggers YH, et al. **Acta Obstet Gynecol Scand Suppl** 1997;165:71–5

IGF–I, IGF–II, free IGF–I and IGFBP–1, –2 and –3 levels in venous cord blood: relationship to birthweight, length and gestational age in healthy newborns. Klauwer D, et al. **Acta Paediatr** 1997 Aug;86(8):826–33

The fetal origins of coronary heart disease. Barker DJ. **Acta Paediatr Suppl** 1997 Jul;422:78–82 (36 ref.)

Effects of timing of conception on birth weight and preterm delivery of natural family planning users. Barbato M, et al. **Adv Contracept** 1997 Jun–Sep;13(2–3):215–28

Observations of stillbirths, birthweight and maternal haemoglobin in teenage pregnancy in Ibadan, Nigeria. Onadeko MO, et al. **Afr J Med Med Sci** 1996 Mar; 25(1):81–6

Tobacco erases 30 years of progress: preliminary analysis of the effect of tobacco smoking on Alaska Native birth weight. Murphy NJ, et al. **Alaska Med** 1996 Jan–Mar; 38(1):31–3

Effects of prenatal alcohol exposure on birth weight in rats: is there an inverted U–shaped function? Abel EL. **Alcohol** 1996 Jan–Feb;13(1):99–102

Relation between birth weight and the insulin sensitivity index in a population sample of 331 young, healthy Caucasians. Clausen JO, et al. **Am J Epidemiol** 1997 Jul 1;146(1):23–31

Impact of Asian ethnicity and national origin on infant birth weight. Fuentes–Afflick E, et al. **Am J Epidemiol** 1997 Jan 15;145(2):148–55

An investigation of the effect of paternal occupation group at conception on birth weight and gestational age. ALSPAC Study Team of Pregnancy and Childhood. Shea KM, et al. **Am J Ind Med** 1997 Jun;31(6):738–43

Plasma ferritin and pregnancy outcome. Goldenberg RL, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1356–9

Prenatal maternal blood pressure response to stress predicts birth weight and gestational age: a preliminary study [see comments] McCubbin JA, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):706–12. Comment in: Am J Obstet Gynecol 1997 Mar;176(3):733.

Adjustment of birth weight standards for maternal and infant characteristics improves the prediction of outcome in the small–for–gestational–age infant. Sciscione AC, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):544–7

The Santa Barbara County Health Care Services program: birth weight change concomitant with screening for and treatment of glucose–intolerance of pregnancy: a potential cost–effective intervention? Jovanovic–Peterson L, et al. **Am J Perinatol** 1997 Apr;14(4):221–8

Interactions between infant growth and survival: evidence for selection on age–specific body weight in captive common marmosets (Callithrix jacchus). Jaquish CE, et al. **Am J Primatol** 1997;42(4):269–80

The validity of recalled birthweight in developing countries [letter] Gaskin P, et al. **Am J Public Health** 1997 Jan; 87(1):114

The effects of cigarette smoking and gestational weight change on birth outcomes in obese and normal–weight women [see comments] Hellerstedt WL, et al. **Am J Public Health** 1997 Apr;87(4):591–6. Comment in: Am J Public Health 1997 Apr;87(4):543–4.

The effect of high altitude and other risk factors on birthweight: independent or interactive effects? Jensen GM, et al. **Am J Public Health** 1997 Jun;87(6):1003–7

Is incarceration during pregnancy associated with infant birthweight? Martin SL, et al. **Am J Public Health** 1997 Sep;87(9):1526–31

Annotation: cigarette smoking, nutrition, and birthweight [comment] [published erratum appears in Am J Public Health 1997 Jun;87(6):925] Rasmussen KM, et al. **Am J Public Health** 1997 Apr;87(4):543–4. Comment on: Am J Public Health 1997 Apr;87(4):591–6.

Ethnic differences in birthweight: the role of lifestyle and other factors. Shiono PH, et al. **Am J Public Health** 1997 May;87(5):787–93

Seasonality, malaria, and impact of prophylaxis in a West African village. II. Effect on birthweight. Bouvier P, et al. **Am J Trop Med Hyg** 1997 Apr;56(4):384–9

Alcohol consumption during pregnancy and infant birth weight [letter] Larroque B, et al. **Ann Epidemiol** 1996 Mar; 6(2):169–70

Evaluating the relationships among maternal reproductive history, birth characteristics, and infant leukemia: a report from the Children's Cancer Group. Ross JA, et al. **Ann Epidemiol** 1997 Apr;7(3):172–9

Birthweight for length: ponderal index, body mass index or Benn index? Cole TJ, et al. **Ann Hum Biol** 1997 Jul–Aug; 24(4):289–98

Malarial infection and birthweight in urban Zanzibar, Tanzania. Matteelli A, et al. **Ann Trop Med Parasitol** 1996 Apr;90(2):125–34

Are boys better than girls at building a tower or a bridge at 2 years of age? Labarthe JC. **Arch Dis Child** 1997 Aug; 77(2):140–4

Cerebral palsy: effects of twinning, birthweight, and gestational age. Williams K, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov;75(3):F178–82

The influence of infant birth weight on post partum stress incontinence in obese women. Krue S, et al. **Arch Gynecol Obstet** 1997;259(3):143–5

Birth weight and age–specific analysis of the 1990 US infant mortality drop. Was it surfactant? Schoendorf KC, et al. **Arch Pediatr Adolesc Med** 1997 Feb;151(2):129–34

Effects of smoking and marine diet on birthweight in Greenland. Bjerregaard P, et al. **Arctic Med Res** 1996 Oct; 55(4):156–64

Parental smoking habits and infant birth weight. Jadsri S, et al. **Asia Pac J Public Health** 1995;8(2):134–7

Low aboriginal birth–weight—prematurity or intrauterine growth restriction? [see comments] Humphrey MD. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):126–8. Comment in: Aust N Z J Obstet Gynaecol 1997 Feb;37(1):131–2.

Maternal lean body mass and birth–weight. Mongelli M. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):133–5

Maternal country of origin and infant birthplace: implications for birth–weight. Rundle D, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):430–4

Accuracy of estimated fetal weight below 1,000 g. Scott F, et al. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):129–32

Obstetric outcomes and infant birthweights for

Vietnamese-born and Australian-born women in southwestern Sydney. Sullivan JR, et al. **Aust N Z J Public Health** 1997 Apr;21(2):159–62

Hypertension in pregnancy and size at birth. Himmelmann K, et al. **Blood Press** 1996 Sep;5(5):278–84

Atopic dermatitis and birth factors: historical follow up by record linkage [see comments] Olesen AB, et al. **BMJ** 1997 Apr 5;314(7086):1003–8. Comment in: BMJ 1997 Apr 5;314(7086):987–8.

Mothers' birth weight and survival of their offspring: population based study. Skjaerven R, et al. **BMJ** 1997 May 10;314(7091):1376–80

Prospective cohort study of factors influencing the relative weights of the placenta and the newborn infant. Williams LA, et al. **BMJ** 1997 Jun 28;314(7098):1864–8

Maternal birthweight and diet in pregnancy in relation to the infant's thinness at birth. Godfrey KM, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):663–7

The relation between fetal abdominal circumference and birthweight: findings in 3512 pregnancies. Smith GC, et al. **Br J Obstet Gynaecol** 1997 Feb;104(2):186–90

Significance of low birthweight for gestational age among very preterm infants. Spinillo A, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):668–73

Selection biases invalidate current low birthweight weight-for-gestation standards. The Northern Neonatal Network. Tin W, et al. **Br J Obstet Gynaecol** 1997 Feb; 104(2):180–5

Retinopathy of prematurity in infants of birth weight > 2000 g after haemorrhagic shock at birth. Jandeck C, et al. **Br J Ophthalmol** 1996 Aug;80(8):728–31

Ultrasound biomicroscopic measurement of anterior chamber angle in premature infants. Kobayashi H, et al. **Br J Ophthalmol** 1997 Jun;81(6):460–4

Big babies and infant leukemia: a role for insulin-like growth factor-1? Ross JA, et al. **Cancer Causes Control** 1996 Sep; 7(5):553–9 (66 ref.)

Malaria infection of the cord and birthweights in Nigerians. Egwunyenga OA, et al. **Cent Afr J Med** 1996 Sep; 42(9):265–8

Confronting the prenatal effects of active and passive tobacco smoking on the birth weight of children. Jedrychowski W, et al. **Cent Eur J Public Health** 1996 Sep;4(3):201–5

Birth weight and adult hypertension and obesity in women. Curhan GC, et al. **Circulation** 1996 Sep 15;94(6):1310–5

Birth weight and adult hypertension, diabetes mellitus, and obesity in US men. Curhan GC, et al. **Circulation** 1996 Dec 15;94(12):3246–50

Size at birth and adrenocortical function in childhood. Clark PM, et al. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):721–6

Maternal blood parameters and neonatal birth weight. Salamalekis E, et al. **Clin Exp Obstet Gynecol** 1996; 23(3):155–6

Error corrected, conclusions the same [letter] Singh I, et al. **CMAJ** 1997 Sep 15;157(6):646–7

Birth-weight percentiles by gestational age, Connecticut 1988–1993. Roberts C, et al. **Conn Med** 1996 Mar; 60(3):131–40

The diagnosis of "pathological hyperglycaemia' in gestational diabetes in a high risk obstetric population. Nasrat HA, et al. **Diabet Med** 1996 Oct;13(10):861–7

Low birth weight—is it associated with few and small glomeruli in normal subjects and NIDDM patients? Nyengaard JR, et al. **Diabetologia** 1996 Dec;39(12):1634–7

Childhood size is more strongly related than size at birth to glucose and insulin levels in 10–11-year-old children. Whincup PH, et al. **Diabetologia** 1997 Mar;40(3):319–26

Is the age of menopause determined in-utero? Cresswell JL, et al. **Early Hum Dev** 1997 Sep 19;49(2):143–8

Characterisation of the possible effect on birthweight following frequent prenatal ultrasound examinations. Evans S, et al. **Early Hum Dev** 1996 Jul 19;45(3):203–14

The effect of maternal smoking on birth weight in twin pregnancies. Rydhstroem H, et al. **Early Hum Dev** 1996 Sep 20;46(1–2):43–53

Dietary habits, pregnancy weight gain and birthweights in a highland population of Kenya [see comments] Perry H, et al. **East Afr Med J** 1996 Jul;73(7):424–6. Comment in: East Afr Med J 1996 Jul;73(7):417–8.

Moderate maternal drinking and infant birthweight [letter; comment] Windham GC, et al. **Epidemiology** 1997 Jan; 8(1):112–3. Comment on: Epidemiology 1996 Jul;7(4):377–83.

Relation of maternal ethnicity to infant birthweight in east London, England. Collins JW Jr, et al. **Ethn Dis** 1997 Winter;7(1):1–4

Comments on the Role of reproductive and menstrual factors in cancer of the breast before and after menopause, Talamini et al., Eur J Cancer, 32A, no. 2, pp. 303–310, 1996 [letter; comment] Berstein L. **Eur J Cancer** 1996 Nov; 32A(12):2181–2. Comment on: Eur J Cancer 1996 Feb;32A(2):303–10.

Relationship between maternal nutritional status and infant's weight and body proportions at birth. Thame M, et al. **Eur J Clin Nutr** 1997 Mar;51(3):134–8

The danger of overmatching in studies of the perinatal mortality and birthweight of infants born after assisted conception. Gissler M, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Nov;69(2):73–5

Timing of prenatal starvation in women and offspring birth weight: an update [letter] Lumey LH, et al. **Eur J Obstet Gynecol Reprod Biol** 1995 Dec;63(2):197

Predictive value of conditional centile charts for weight and fundal height in pregnancy in detecting light for gestational age births. Thompson ML, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72(1):3–8

Reduction in birth weight in phenylketonuria [letter; comment] Woolf LI, et al. **Eur J Pediatr** 1997 Feb; 156(2):157. Comment on: Eur J Pediatr 1995 Oct;154(10):847–9.

An impact of birth weight on postnatal body and organ growth capacity in infants under one year of age. Kelmanson IA. **Gen Diagn Pathol** 1996 May; 141(5–6):345–51

Analyzing sibship correlations in birth weight using large sibships from Norway. Beaty TH, et al. **Genet Epidemiol** 1997;14(4):423–33

An accurate method for sonographic estimation of the weight of very preterm fetuses. Mielke G, et al. **Gynecol Obstet Invest** 1997;43(2):98–103

Birth weight, growth, and blood pressure: an annual follow-up study of children aged 5 through 21 years. Uiterwaal CS, et al. **Hypertension** 1997 Aug;30(2 Pt 1):267–71

Age of menarche, birthweight and risk of cancer [letter; comment] Berstein L. **Int J Cancer** 1997 Jul 17;72(2):383 . Comment on: Int J Cancer 1996 Oct 9;68(2):193–8.

Enrollment of a population-based cohort of newborns at higher risk of developing a chronic condition: the EDEN study. Etude du Developpement des Nouveau-nés Study. Addor V, et al. **Int J Epidemiol** 1997 Apr;26(2):340–8

Does gestational age misclassification explain the difference in birthweights for Australian aborigines and whites? Coory M. **Int J Epidemiol** 1996 Oct;25(5):980–8

Are Hong Kong babies getting bigger? Brieger GM, et al. **Int J Gynaecol Obstet** 1997 Jun;57(3):267–71

Full-term birth weight and placental morphology at high and low altitude. Khalid ME, et al. **Int J Gynaecol Obstet** 1997 Jun;57(3):259–65

Birth weight, prematurity and accuracy of gestational age. Mongelli M, et al. **Int J Gynaecol Obstet** 1997 Mar; 56(3):251–6

The relationship between otitis media and intrauterine growth: a co-twin control study. Kvaerner KJ, et al. **Int J Pediatr Otorhinolaryngol** 1996 Nov;37(3):217–25

Which formula should be used in Ireland to estimate fetal weight? Stratton J, et al. **Ir Med J** 1996 Jan–Feb;89(1):30–1

Birth weight adjustments for gestational age. The European Collaborative Study [letter; comment] Newell ML. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):87–8. Comment on: J Acquir Immune Defic Syndr Hum Retrovirol 1996 Nov 1;13(3):227–34.

Effect of birth weight and maternal smoking on cord blood leptin concentrations of full-term and preterm newborns. Mantzoros CS, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):2856–61

Serum leptin concentration in cord blood: relationship to birth weight and gender. Matsuda J, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1642–4

Levels of leptin in maternal serum, amniotic fluid, and arterial and venous cord blood: relation to neonatal and placental weight. Schubring C, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1480–3

Body weight, body condition score, and wither height of prepartum Holstein cows and birth weight and sex of calves by parity: a database and summary. Kertz AF, et al. **J Dairy Sci** 1997 Mar;80(3):525–9

The undesirable consequences of controlling for birth weight in perinatal epidemiological studies. Blair E. **J Epidemiol Community Health** 1996 Oct;50(5):559–63

Factors associated with birth weight in Sweden: the study of men born in 1913. Eriksson M, et al. **J Epidemiol Community Health** 1997 Feb;51(1):19–23

Use of mid-arm and chest circumferences to predict birth weight in rural north India. Kapoor SK, et al. **J Epidemiol Community Health** 1996 Dec;50(6):683–6

Can confounding by sociodemographic and behavioural factors explain the association between size at birth and blood pressure at age 50 in Sweden? Koupilová I, et al. **J Epidemiol Community Health** 1997 Feb;51(1):14–8

Is blood pressure inversely related to birth weight? The strength of evidence from a systematic review of the literature. Law CM, et al. **J Hypertens** 1996 Aug; 14(8):935–41

Plasma concentrations of inactive renin in adult life are related to indicators of foetal growth. Martyn CN, et al. **J Hypertens** 1996 Jul;14(7):881–6

A retrospective analysis of Erb's palsy cases and their relation to birth weight and trauma at delivery. Graham EM, et al. **J Matern Fetal Med** 1997 Jan–Feb;6(1):1–5

Relationship between plasma glucose levels in glucose-intolerant women and newborn macrosomia. Verma A, et al. **J Matern Fetal Med** 1997 May–Jun; 6(3):187–93

The effects of genotype and infant weight on adult plasma levels of fibrinogen, factor VII, and LDL cholesterol are additive. Henry JA, et al. **J Med Genet** 1997 Jul;34(7):553–8

Prenatal care experiences and birth weight among Mexican immigrant women. Sherraden MS, et al. **J Med Syst** 1996 Oct;20(5):329–50

Adequacy of prenatal care utilization, maternal ethnicity, and infant birthweight in Chicago. Collins JW Jr, et al. **J Natl Med Assoc** 1997 Mar;89(3):198–203

New South Wales population-based birthweight percentile charts. Beeby PJ, et al. **J Paediatr Child Health** 1996 Dec; 32(6):512–8

Why do aboriginal newborns weigh less? Determinants of birthweight for gestation. Blair E. **J Paediatr Child Health** 1996 Dec;32(6):498–503

Hepatoblastoma and birth weight: too little, too big, or just right? [editorial; comment] Ross JA. **J Pediatr** 1997 Apr; 130(4):516–7. Comment on: J Pediatr 1997 Apr;130(4):557–60.

The relationship of ponderal index and other measurements to birthweight in preterm neonates. Chard T, et al. **J Perinat Med** 1997;25(1):111–4

Vitamin dependent erythrocyte enzymes in newborns in relation to gestational age and birth weight. Ramos JL, et al. **J Perinat Med** 1996;24(3):221–5

Area variations in birthweight- and cause of death--specific neonatal mortality rates in Italy. de Vonderweid U, et al. **J Perinatol** 1997 Jan–Feb;17(1):60–4

Pulse oximetry in newborn infants with birth weights of 620 to 4285 grams receiving dopamine and dobutamine. Sardesai S, et al. **J Perinatol** 1996 Jan–Feb;16(1):31–4

Estimating birth weight in twins. Comparison of eight sonographic models. Chauhan SP, et al. **J Reprod Med** 1996 Jun;41(6):403–8

Trends in intra-uterine growth of single live births in southern India. Antonisamy B, et al. **J Trop Pediatr** 1996 Dec;42(6):339–41

Have improvements in birth weight and gestational age over 20 years influenced neonatal and infant survival? Jeyaseelan L, et al. **J Trop Pediatr** 1996 Aug;42(4):241–3

Improved birth weight table for neonates developed from gestations dated by early ultrasonography. Doubilet PM, et al. **J Ultrasound Med** 1997 Apr;16(4):241–9

New formula for estimating fetal weight below 1000 g: comparison with existing formulas. Scott F, et al. **J Ultrasound Med** 1996 Oct;15(10):669–72

Birthweight as risk factor for breast cancer [letter; comment] Berstein L. **Lancet** 1997 Feb 15;349(9050):501–2. Comment on: Lancet 1996 Dec 7;348(9041):1542–6.

Birthweight, body-mass index in middle age, and incident coronary heart disease. Frankel S, et al. **Lancet** 1996 Nov 30;348(9040):1478–80

Mothers' pelvic size, fetal growth, and death from stroke and coronary heart disease in men in the UK [see comments] Martyn CN, et al. **Lancet** 1996 Nov 9; 348(9037):1264–8. Comment in: Lancet 1996 Nov 9;348(9037):1254–5.

Birthweight as a risk factor for breast cancer [see comments] Michels KB, et al. **Lancet** 1996 Dec 7;348(9041):1542–6. Comment in: Lancet 1996 Dec 7;348(9041):1531. Comment in: Lancet 1997 Feb 15;349(9050):501; discussion 502. Comment in: Lancet 1997 Feb 15;349(9050):501–2. Comment in: Lancet 1997 Feb 15;349(9050):502.

Birthweight as risk factor for breast cancer [letter] Peto R. **Lancet** 1997 Feb 15;349(9050):501; discussion 502

Fetal growth and coronary heart disease in south India [see comments] Stein CE, et al. **Lancet** 1996 Nov 9; 348(9037):1269–73. Comment in: Lancet 1996 Nov 9;348(9037):1254–5. Comment in: Lancet 1997 Jan 25;349(9047):285–6.

Birthweight as risk factor for breast cancer [letter; comment] Stoll BA. **Lancet** 1997 Feb 15;349(9050):501; discussion 502 . Comment on: Lancet 1996 Dec 7;348(9041):1542–6.

Birthweight as risk factor for breast cancer [letter; comment] Van Assche FA. **Lancet** 1997 Feb 15;349(9050):502. Comment on: Lancet 1996 Dec 7;348(9041):1531. Comment on: Lancet 1996 Dec 7;348(9041):1542–6.

Can prenatal factors influence future breast cancer risk? [comment] [see comments] Vatten L. **Lancet** 1996 Dec 7; 348(9041):1531. Comment on: Lancet 1996 Dec 7;348(9041):1542–6. Comment in: Lancet 1997 Feb 15;349(9050):502.

Variation in placental type 2 11beta-hydroxysteroid dehydrogenase activity is not related to birth weight or placental weight. Rogerson FM, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):103–9

Proteinuria and progressive renal disease: birth weight and microalbuminuria. Yudkin JS, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:10–3

The relationship of birthweight with height at 14 and with the growing process. Bacallao J, et al. **Nutrition** 1996 Apr; 12(4):250–4

Birth weight and its relationship to size attained and relative fat distribution at 7 to 12 years of age. Malina RM, et al. **Obes Res** 1996 Jul;4(4):385–90

Sonographic examination does not predict twin growth discordance accurately. Caravello JW, et al. **Obstet Gynecol** 1997 Apr;89(4):529–33 (14 ref.)

Three-dimensional ultrasound-assessed fetal thigh volumetry in predicting birth weight. Chang FM, et al. **Obstet Gynecol** 1997 Sep;90(3):331–9

Birth weight as a predictor of brachial plexus injury. Ecker JL, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):643–7

Birth weight as a predictor of brachial plexus injury [letter] Gittens L, et al. **Obstet Gynecol** 1997 Sep;90(3):479

Prenatal weight gain patterns and birth weight among nonobese black and white women. Hickey CA, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):490–6

Birth weight as a predictor of brachial plexus injury [letter] Sandmire HF. **Obstet Gynecol** 1997 Sep;90(3):479–80

Smoking in pregnancy, exhaled carbon monoxide, and birth weight. Secker-Walker RH, et al. **Obstet Gynecol** 1997

May;89(5 Pt 1):648–53

The relationship of interpregnancy interval to infant birthweight and length of gestation among low-risk women, Georgia. Adams MM, et al. **Paediatr Perinat Epidemiol** 1997 Jan;11 Suppl 1:48–62

Ecological and individual predictors of birthweight in a northern Finland birth cohort 1986. Järvelin MR, et al. **Paediatr Perinat Epidemiol** 1997 Jul;11(3):298–312

Impact of increased neonatal survival on postneonatal mortality in the United States. Kim BI, et al. **Paediatr Perinat Epidemiol** 1996 Oct;10(4):423–31

Factors associated with term low birthweight in Cardiff, Wales. Meis PJ, et al. **Paediatr Perinat Epidemiol** 1997 Jul; 11(3):287–97

Maternal smoking, birthweight and gestational age in sudden infant death syndrome (SIDS) babies and their surviving siblings. Oyen N, et al. **Paediatr Perinat Epidemiol** 1997 Jan;11 Suppl 1:84–95

Role of gestational age and body weight on Doppler transmitral flow velocity pattern in very low birth weight infants. Harada K, et al. **Pediatr Cardiol** 1996 Jul–Aug; 17(4):242–5

Invasive candidiasis in infants weighing more than 2500 grams at birth admitted to a neonatal intensive care unit. Rabalais GP, et al. **Pediatr Infect Dis J** 1996 Apr; 15(4):348–52

The relation between neonatal thyroxine levels and neurodevelopmental outcome at age 5 and 9 years in a national cohort of very preterm and/or very low birth weight infants. Den Ouden AL, et al. **Pediatr Res** 1996 Jan;39(1):142–5

Prenatal and postnatal factors in predicting later blood pressure among children: cardiovascular risk in young Finns. Taittonen L, et al. **Pediatr Res** 1996 Oct;40(4):627–32

Early deaths in Chicago and New England [letter; comment] Ellington M Jr, et al. **Pediatrics** 1997 May;99(5):753–4. Comment on: Pediatrics 1996 May;97(5):636–43.

Cognitive and neurologic development of the premature, small for gestational age infant through age 6: comparison by birth weight and gestational age. McCarton CM, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1167–78

Birth weight associated with lowest neonatal mortality: infants of adolescent and adult mothers. Rees JM, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1161–6

Placental weight to birthweight ratio is increased in mild gestational glucose intolerance. Lao TT, et al. **Placenta** 1997 Mar–Apr;18(2–3):227–30

Placental ratio—its relationship with mild maternal anaemia. Lao TT, et al. **Placenta** 1997 Sep;18(7):593–6

Home apnea monitoring and sudden infant death syndrome. Malloy MH, et al. **Prev Med** 1996 Nov–Dec;25(6):645–9

Observer error and birthweight: digit preference in recording. Edouard L, et al. **Public Health** 1997 Mar; 111(2):77–9

Effects on birthweights of maternal education, socio-economic status, and work-related characteristics. Nordström ML, et al. **Scand J Soc Med** 1996 Mar; 24(1):55–61

Trichomonas vaginalis associated with low birth weight and preterm delivery. The Vaginal Infections and Prematurity Study Group [see comments] Cotch MF, et al. **Sex Transm Dis** 1997 Jul;24(6):353–60. Comment in: Sex Transm Dis 1997 Jul;24(6):361–2.

Maternal smoking during pregnancy and birth outcomes with weight gain adjustments via varying-coefficient models. Segal MR, et al. **Stat Med** 1997 Jul 30;16(14):1603–16

A technique for measuring epidemiologically useful features of birthweight distributions. Umbach DM, et al. **Stat Med** 1996 Jul 15;15(13):1333–48

The impact of a national impregnated bed net programme on the outcome of pregnancy in primigravidae in The Gambia. D'Alessandro U, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):487–92

Birthweight distribution in rural north-west Burkina Faso. Wendl-Richter HU. **Trop Med Int Health** 1997 Apr; 2(4):404–8

Individualized growth assessment predicts birth weight accurately [letter; comment] [see comments] Deter RL. **Ultrasound Obstet Gynecol** 1996 Feb;7(2):156–7. Comment on: Ultrasound Obstet Gynecol 1995 Sep;6(3):168–74. Comment in: Ultrasound Obstet Gynecol 1996 Jun;7(6):462–3.

Resolving polyhydramnios: clinical significance and subsequent neonatal outcome. Hill LM, et al. **Ultrasound Obstet Gynecol** 1995 Dec;6(6):421–4

Receiver operating characteristic curves of sonographic estimated fetal weight for prediction of macrosomia in prolonged pregnancies. O'Reilly-Green CP, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):403–8

The effect of maternal age and birth weight on the temporal trend in stillbirth rate in Austria during 1984–1993. Waldhoer T, et al. **Wien Klin Wochenschr** 1996; 108(20):643–8

Discovering the extent of low birth weight in rural Sudan [letter] Aziz MI, et al. **World Health Forum** 1996; 17(4):402–3

When is fetal macrosomia (> or = 4500 g) an indication for caesarean section? Mikulandra F, et al. **Zentralbl Gynakol** 1996;118(8):441–7

[The relationship between maternal body weight index and fetal weight and delivery mode] Shao D. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Dec;30(12):718–20 (Eng. Abstr.) **(Chi)**

[Fetal growth from the AUDIPOG study. I. Establishment of reference curves] Mamelle N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):61–70 (37 ref.) (Eng. Abstr.) **(Fre)**

[Fetal growth from the AUDIPOG study. II. Application for the diagnosis of intrauterine growth retardation] Mamelle N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):71–7 (Eng. Abstr.) **(Fre)**

[Analysis of a 1992 birth sample in Germany. 1: New percentile values of the body weight of newborn infants] Voigt M, et al. **Geburtshilfe Frauenheilkd** 1996 Oct; 56(10):550–8 (Eng. Abstr.) **(Ger)**

[Accuracy of ultrasound weight assessment--comparison of vertex vs. breech presentation] Ragosch V, et al. **Ultraschall Med** 1997 Feb;18(1):19–25 (Eng. Abstr.) **(Ger)**

[Weight discordance of the second twin: effect on perinatal morbidity and mortality. An 8-year analysis of 213 twin deliveries] Graf H, et al. **Zentralbl Gynakol** 1997; 119(3):106–10 (Eng. Abstr.) **(Ger)**

[Upright birthing position--more birth canal injuries? Results of a retrospective comparative study] Kleine-Tebbe A, et al. **Zentralbl Gynakol** 1996;118(8):448–52 (Eng. Abstr.) **(Ger)**

[Gestational age, birth weight, degree of motor impairment, and causes of brain damage in sixty-eight patients with cerebral palsy identified in a community (birth year 1985–1991)] Suzuki H. **No To Hattatsu** 1997 Jan;29(1):27–32 (Eng. Abstr.) **(Jpn)**

[The type of material primary hyperlipoproteinemia and newborn birth weight] Karoń J, et al. **Ginekol Pol** 1996 Aug;67(8):391–3 (Eng. Abstr.) **(Pol)**

[Body weight distribution norms of newborns and fetuses with a gestational age with 28 weeks or more] Klimek M, et al. **Ginekol Pol** 1996 Nov;67(11):529–37 (Eng. Abstr.) **(Pol)**

[Impact of active and passive smoking during pregnancy on birth weight of the newborn] Jędrychowski W, et al. **Pol Merkuriusz Lek** 1996 Dec;1(6):379–82 (Eng. Abstr.) **(Pol)**

[Small for gestational age newborn infants. The effect of standard curves of birth weight on the calculation of the prevalence and of the risk factors] Rodrigues T, et al. **Acta Med Port** 1996 Oct–Dec;9(10–12):335–40 (Eng. Abstr.) **(Por)**

[Weight of the newborn in relation to maternal weight gains in 513 normal pregnancies: analysis of different stages of the maternal weight at the onset of pregnancy] Macéa JR, et al. **Rev Assoc Med Bras** 1996 Jul–Sep;42(3):155–61 (Eng. Abstr.) **(Por)**

[Domestic violence during pregnancy and its relationship with birth weight] Valdez-Santiago R, et al. **Salud Publica Mex** 1996 Sep–Oct;38(5):352–62 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Effect of atenolol on birth weight. Lip GY, et al. **Am J Cardiol** 1997 May 15;79(10):1436–8

Effect of caffeine intake during pregnancy on birth weight. Vlajinac HD, et al. **Am J Epidemiol** 1997 Feb 15; 145(4):335–8

Repetitive prenatal glucocorticoids improve lung function and decrease growth in preterm lambs. Ikegami M, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):178–84

Association between prenatal lead (Pb) exposure, hematological parameters, and birth weight [letter; comment] Factor-Litvak P, et al. **Arch Environ Health** 1996 Nov–Dec;51(6):468–9. Comment on: Arch Environ Health 1995 Jan–Feb;50(1):66–73.

Cisapride use during human pregnancy: a prospective, controlled multicenter study. Bailey B, et al. **Dig Dis Sci** 1997 Sep;42(9):1848–52

Association between drinking water disinfection and somatic parameters at birth. Kanitz S, et al. **Environ Health Perspect** 1996 May;104(5):516–20

The effect of maternal drinking before conception and in early pregnancy on infant birthweight. The ALSPAC Study Team. Avon Longitudinal Study of Pregnancy and Childhood [see comments] Passaro KT, et al. **Epidemiology** 1996 Jul;7(4):377–83. Comment in: Epidemiology 1997 Jan;8(1):112–3.

Public drinking water contamination and birthweight, prematurity, fetal deaths, and birth defects. Bove FJ. **Toxicol Ind Health** 1996 Mar–Apr;12(2):255–66

GENETICS

Interethnic variability in birth weight and genetic background: a study of placental alkaline phosphatase. Amante A, et al. **Am J Phys Anthropol** 1996 Dec; 101(4):449–53

Genetic (co)variances among birth weight, 200-day weight, and postweaning gain in composites and parental breeds of beef cattle. Bennett GL, et al. **J Anim Sci** 1996 Nov; 74(11):2598–611

Breed-specific adjustment factors for reproductive traits in Duroc, Hampshire, Landrace, and Yorkshire swine. Culbertson MS, et al. **J Anim Sci** 1997 Sep;75(9):2362–7

Estimation of direct and maternal breed effects for prediction of expected progeny differences for birth and weaning weights in three multibreed populations. Rodríguez-Almeida FA, et al. **J Anim Sci** 1997 May; 75(5):1203–12

Independent effect of maternal birth weight on infant birth weight. Tavares M, et al. **J Perinat Med** 1996;24(4):391–6

Differing birth weight among infants of U.S.-born blacks, African-born blacks, and U.S.-born whites [see comments] David RJ, et al. **N Engl J Med** 1997 Oct 23;337(17):1209–14 . Comment in: N Engl J Med 1997 Oct 23;337(17):1232–3.

The enigma of low birth weight and race [editorial; comment] Foster HW Jr. **N Engl J Med** 1997 Oct 23;337(17):1232–3 . Comment on: N Engl J Med 1997 Oct 23;337(17):1209–14.

IMMUNOLOGY

The effect of HLA on birth weight and placental weight in preeclampsia. Omu AE, et al. **Int J Gynaecol Obstet** 1996 Aug;54(2):169–71

PHYSIOLOGY

Temperament development to 30 months of age in discordant twin pairs. Riese ML. **Acta Genet Med Gemellol (Roma)** 1996;45(4):439–47

The influence of some perinatal variables on neonatal blood pressure. O'Sullivan MJ, et al. **Acta Paediatr** 1996 Jul; 85(7):849–53

Relationship between birth weight and awake blood pressure in children and adolescents in absence of intrauterine growth retardation. Lurbe E, et al. **Am J Hypertens** 1996 Aug;9(8):787–94

Inadequate weight gain among pregnant adolescents: risk factors and relationship to infant birth weight. Berenson AB, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1220–4; discussion 1224–7

Seasonal effects on gestation length and birth weight in alpacas. Davis GH, et al. **Anim Reprod Sci** 1997 Apr; 46(3–4):297–303

Body size and subcutaneous fat patterning in adolescence. Matthes JW, et al. **Arch Dis Child** 1996 Dec;75(6):521–3

Low birth weight and neurocognitive status at six years of age. Breslau N, et al. **Biol Psychiatry** 1996 Sep 1; 40(5):389–97

The enigmatic association of birth weight with blood pressure [editorial] Jern S, et al. **Blood Press** 1997 Jul;6(4):196

Size at birth and hypertension in longitudinally followed 50–70-year-old men. Koupilová I, et al. **Blood Press** 1997 Jul;6(4):223–8

Birth weight and risk of cardiovascular disease in a cohort of women followed up since 1976. Rich-Edwards JW, et al. **BMJ** 1997 Aug 16;315(7105):396–400

Birth weight and cognitive function in young adult life: historical cohort study. Sørensen HT, et al. **BMJ** 1997 Aug 16;315(7105):401–3

Multihandicapped blind and partially sighted children in south Germany. II: Aetiology and pathogenesis. Häussler M, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1076–90

Behavioral problems in low-birthweight preschoolers. Sommerfelt K, et al. **Dev Med Child Neurol** 1996 Oct; 38(10):927–40

Fetal growth and insulin resistance in adult life: relationship between glycogen synthase activity in adult skeletal muscle and birthweight. Phillips DI, et al. **Diabet Med** 1996 Apr; 13(4):325–9

Prenatal glucocorticoid exposure leads to offspring hyperglycaemia in the rat: studies with the 11 beta-hydroxysteroid dehydrogenase inhibitor carbenoxolone. Lindsay RS, et al. **Diabetologia** 1996 Nov; 39(11):1299–305

Birth weight and cardiovascular risk factors in an epidemiological study. Vestbo E, et al. **Diabetologia** 1996 Dec;39(12):1598–602

Is intertwin birth weight discordance predictable? Blickstein I, et al. **Gynecol Obstet Invest** 1996;42(2):105–8

Fetal weight estimation by symphysis-fundus height and gestational age. Mongelli M. **Gynecol Obstet Invest** 1997; 43(1):20–4

Development of ventilatory responsiveness to progressive hypoxia and hypercapnia in low-birth-weight lambs. Moss TJ, et al. **J Appl Physiol** 1996 Oct;81(4):1555–61

Dual-energy X-ray absorptiometry studies of bone mineral status in newborn infants. Koo WW, et al. **J Bone Miner Res** 1996 Jul;11(7):997–102

Plasma alkaline phosphatase and pregnancy outcome. Goldenberg RL, et al. **J Matern Fetal Med** 1997 May–Jun; 6(3):140–5

Prenatal weight gain and birth weight among Oklahoma mothers. **J Okla State Med Assoc** 1996 Dec;89(12):435–8

Accuracy of intrapartum estimates of fetal weight. Effect of oligohydramnios. Barnhard Y, et al. **J Reprod Med** 1996 Dec;41(12):907–10

When Hadlock's methodology to determine menstrual age and weight are used in combination in obstetrical calculation programs, the results are not valid at term. Cadkin AV. **J Ultrasound Med** 1996 Mar;15(3):264–6

The relationship between maternal birthweight and gestational age in twins and singletons and those of their offspring in Norway. Glinianaia SV, et al. **Paediatr Perinat Epidemiol** 1997 Jan;11(1):26–36

[Pregnancy induced changes in lipid-lipoprotein serum profile in women and newborn birth weight] Karoń J, et al. **Ginekol Pol** 1996 Aug;67(8):387–90 (Eng. Abstr.) **(Pol)**

[Lipid-lipoprotein serum profile of the newborn and its birth

weight] Karoń J, et al. **Ginekol Pol** 1996 Aug;67(8):394–7 (Eng. Abstr.) **(Pol)**

RADIATION EFFECTS

Prenatal gamma-irradiation alters axial asymmetry in low birth weight pups. Gigi A, et al. **Behav Brain Res** 1997 Jul;86(2):205–7

BIRTHING CENTERS

Transfer rates from freestanding birth centers. A comparison with the National Birth Center Study. Fullerton JT, et al. **J Nurse Midwifery** 1997 Jan–Feb;42(1):9–16

A missed opportunity. Lubic RW. **Public Health Rep** 1997 Jul–Aug;112(4):284–7

[Type of birth center and conditions of transfer of neonates under 1500 g or gestational age under 33 weeks] Chale JJ, et al. **Arch Pediatr** 1997 Apr;4(4):311–9 (Eng. Abstr.) **(Fre)**

ECONOMICS

Are low-risk maternity clinics financially viable? [letter] Oliver C. **Can Fam Physician** 1997 Jun;43:1044

Exploring cost and quality: community-based versus traditional hospital delivery systems. Walker PH, et al. **J Health Care Finance** 1996 Fall;23(1):23–47 (53 ref.)

ORGANIZATION & ADMINISTRATION

Evaluation of a reduced-frequency prenatal visit schedule for low-risk women at a free-standing birthing center. Walker DS, et al. **J Nurse Midwifery** 1997 Jul–Aug; 42(4):295–303

Midwifery, birth centers, and health care reform. Ernst EK. **J Obstet Gynecol Neonatal Nurs** 1996 Jun;25(5):433–9 (10 ref.)

STANDARDS

The Stockholm birth centre trial: maternal and infant outcome [see comments] Waldenström U, et al. **Br J Obstet Gynaecol** 1997 Apr;104(4):410–8. Comment in: Br J Obstet Gynaecol 1997 Apr;104(4):396–8.

Exploring cost and quality: community-based versus traditional hospital delivery systems. Walker PH, et al. **J Health Care Finance** 1996 Fall;23(1):23–47 (53 ref.)

STATISTICS & NUMERICAL DATA

The Stockholm Birth Centre Trial: maternal and infant outcome [letter] Ind T. **Br J Obstet Gynaecol** 1997 Sep; 104(9):1099

BIRTHING CENTERS, FREE-STANDING see **BIRTHING CENTERS**

BIRTHING CENTERS, HOSPITAL see **DELIVERY ROOMS**

BISACODYL

ADMINISTRATION & DOSAGE

Randomized, controlled comparison of two forms of preparation for screening flexible sigmoidoscopy. Sharma VK, et al. **Am J Gastroenterol** 1997 May;92(5):809–11

Improved bowel care with a polyethylene glycol based bisacadyl suppository. Frisbie JH. **J Spinal Cord Med** 1997 Apr;20(2):227–9

DIAGNOSTIC USE

Does bowel preparation improve the quality of intravenous urography? Bradley AJ, et al. **Br J Radiol** 1996 Oct; 69(826):906–9

PHARMACOLOGY

Ispaghula (Vi-Siblin) versus standard preparation for barium enema. Burchardt AJ, et al. **Acta Radiol** 1997 Mar; 38(2):311–2

THERAPEUTIC USE

Best bowel prep for flexible sigmoidoscopy. Forsch R. **J Fam Pract** 1997 Aug;45(2):102–3

BISCYCLOHEXANONE OXALDIHYDRAZONE see **CUPRIZONE**

BIS-DEAE-FLUORENONE see **TILORONE**

BISEXUALITY

Follow-up survey of support services for lesbian, gay, and bisexual medical students. Townsend MH, et al. **Acad Med** 1996 Sep;71(9):1012–4

Detection of Kaposi's sarcoma herpesvirus DNA in semen of homosexual men with Kaposi's sarcoma [letter] Gupta P, et al. **AIDS** 1996 Nov;10(13):1596–8

How many HIV infections cross the bisexual bridge? An estimate from the United States. Kahn JG, et al. **AIDS** 1997 Jul;11(8):1031–7

The feasibility of HIV-1 vaccine efficacy trials among gay/bisexual men in New York City: Project ACHIEVE. AIDS Community Health Initiative Enroute to the Vaccine EFfort. Koblin BA, et al. **AIDS** 1996 Nov;10(13):1555–61

Evaluation of an HIV risk reduction intervention among African-American homosexual and bisexual men. Peterson JL, et al. **AIDS** 1996 Mar;10(3):319–25

Overall and cause-specific mortality in a cohort of homo-/bisexual men, injecting drug users, and female partners of HIV-infected men. Pulmonary Complications of Human Immunodeficiency Virus Infection Study Group. Poole WK, et al. **AIDS** 1996 Sep;10(11):1257–64

Differences in HIV risk characteristics between bisexual and exclusively gay men. Heckman TG, et al. **AIDS Educ Prev** 1995 Dec;7(6):504–12

Breaking the silence. Welcoming lesbian, gay and bisexual colleagues and consumers. Peppard RC, et al. **ASHA** 1996 Fall;38(4):32–5

Indicators of male bisexual activity in semimetropolitan New South Wales: implications for HIV prevention strategies. Prestage G, et al. **Aust N Z J Public Health** 1996 Aug; 20(4):386–92

Medical schools seek to overcome "invisibility" of gay patients, gay issues in curriculum [see comments] Robb N. **Can Med Assoc J** 1996 Sep 15;155(6):765–70. Comment in: Can Med Assoc J 1996 Sep 15;155(6):709–11. Comment in: Can Med Assoc J 1996 Dec 15;155(12):1664.

Gay, lesbian and bisexual health care issues and medical curricula [editorial; comment] [see comments] Robinson G, et al. **Can Med Assoc J** 1996 Sep 15;155(6):709–11. Comment on: Can Med Assoc J 1996 Sep 15;155(6):765–70. Comment in: Can Med Assoc J 1996 Dec 15;155(12):1666.

Working with lesbians, gays, and bisexuals: addressing heterosexism in supervision [see comments] Long JK. **Fam Process** 1996 Sep;35(3):377–88 (69 ref.). Comment in: Fam Process 1996 Sep;35(3):389–400.

Deception in intimate relationships: a comparison of heterosexuals and homosexuals/bisexuals. Burdon WM. **J Homosex** 1996;32(1):77–93

The social marketing of project ARIES: overcoming challenges in recruiting gay and bisexual males for HIV prevention counseling. Fisher DS, et al. **J Homosex** 1996; 31(1–2):177–202

Heterosexual bias in the identity self-portraits of gay men, lesbians, and bisexuals. Massey SG, et al. **J Homosex** 1996; 32(1):57–76

Seroprevalence of and risk factors for hepatitis A infection among young homosexual and bisexual men. Katz MH, et al. **J Infect Dis** 1997 May;175(5):1225–9

Genetic dissection of sexual orientation: behavioral, cellular, and molecular approaches in Drosophila melanogaster. Yamamoto D, et al. **Neurosci Res** 1996 Oct;26(2):95–107 (117 ref.)

Gay, lesbian, and bisexual adolescents: providing esteem-enhancing care to a battered population. Nelson JA. **Nurse Pract** 1997 Feb;22(2):94, 99, 103 passim (45 ref.)

HIV and hepatitis B infection and risk behavior in young gay and bisexual men. Seage GR 3rd, et al. **Public Health Rep** 1997 Mar–Apr;112(2):158–67

HISTORY

[Birth and evolution of the biological concept of bisexuality] Aron C. **Clio Med** 1995;33:131–50 **(Fre)**

PSYCHOLOGY

Sexual risk and HIV-testing behaviour by gay and bisexual men in Canada. Myers T, et al. **AIDS Care** 1996 Jun; 8(3):297–309

Cognitions of gay and bisexual men in sexual situations: development of the sex and AIDS Thought Scale (SATS). Gaies LA, et al. **AIDS Educ Prev** 1995 Dec;7(6):513–22

Understanding the intention of gay and bisexual men to take the HIV antibody test. Godin G, et al. **AIDS Educ Prev** 1997 Feb;9(1):31–41

It's like a regular part of gay life: repeat HIV antibody testing among gay and bisexual men. Kalichman SC, et al. **AIDS Educ Prev** 1997 Jun;9(3 Suppl):41–51

Do homosexual and bisexual men who place others at potential risk for HIV have unique psychological problems? Robins AG, et al. **AIDS Educ Prev** 1997 Jun;9(3):239–51

AIDS-relevant condom use by gay and bisexual men: the role of person variables and the interpersonal situation. Sacco WP, et al. **AIDS Educ Prev** 1996 Oct;8(5):430–43

The prevalence and nature of biphobia in heterosexual undergraduate students. Eliason MJ. **Arch Sex Behav** 1997 Jun;26(3):317–26

Variation in sexual orientations among men who have sex with men, and their current sexual practices. Myers T, et al. **Can J Public Health** 1995 Nov–Dec;86(6):384–8

Elevated physical health risk among gay men who conceal their homosexual identity. Cole SW, et al. **Health Psychol** 1996 Jul;15(4):243–51

Continued high-risk sex among HIV seropositive gay and bisexual men seeking HIV prevention services. Kalichman SC, et al. **Health Psychol** 1997 Jul;16(4):369–73

Fatalism, current life satisfaction, and risk for HIV infection among gay and bisexual men. Kalichman SC, et al. **J Consult Clin Psychol** 1997 Aug;65(4):542–6

Longitudinal changes in alcohol and drug use among men seen at a gay-specific substance abuse treatment agency. Paul JP, et al. **J Stud Alcohol** 1996 Sep;57(5):475–85

Primary femininity, bisexuality, and the female ego ideal: a re-examination of female developmental theory. Elise D. **Psychoanal Q** 1997 Jul;66(3):489–517

Bisexual erotomania with polycystic ovary disease. Michael A, et al. **Psychopathology** 1996;29(3):181–3

HIV testing history among gay/bisexual men recruited in Barcelona: evidence of high levels of risk behavior among self-reported HIV + men. Wang J, et al. **Soc Sci Med** 1997 Feb;44(4):469–77

STATISTICS & NUMERICAL DATA

Male bisexual behavior and HIV risk in the United States: synthesis of research with implications for behavioral interventions. Doll LS, et al. **AIDS Educ Prev** 1996 Jun; 8(3):205–25 (95 ref.)

Prevalence of high-risk sex among HIV-positive gay and bisexual men: a longitudinal analysis. Posner SF, et al. **Am J Prev Med** 1996 Nov–Dec;12(6):472–7

Suicidal behaviors in homosexual and bisexual males. Bagley C, et al. **Crisis** 1997;18(1):24–34

Modelling the impact of HIV disease on mortality in gay and bisexual men. Hogg RS, et al. **Int J Epidemiol** 1997 Jun;26(3):657–61

Childhood sexual abuse among homosexual men. Prevalence and association with unsafe sex. Lenderking WR, et al. **J Gen Intern Med** 1997 Apr;12(4):250–3

Sexual HIV risk among gay and bisexual male methamphetamine abusers. Frosch D, et al. **J Subst Abuse Treat** 1996 Nov–Dec;13(6):483–6

BIS-GMA see **BISPHENOL A-GLYCIDYL METHACRYLATE**

BIS-GMA POLYMER see **BISPHENOL A-GLYCIDYL METHACRYLATE**

BISHYDROXYCOUMARIN see **DICUMAROL**

BISMETHYL SUBERIMIDATE see **DIMETHYL SUBERIMIDATE**

BISMUTH

Bismuth hematoxylin stain for arginine residues. Roach JB Jr, et al. **Biotech Histochem** 1997 Jan;72(1):49–54

ADMINISTRATION & DOSAGE

Ranitidine bismuth citrate and clarithromycin twice daily in the eradication of Helicobacter pylori. Axon AT, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):81–7

One-day intensified lansoprazole-quadruple therapy for cure of Helicobacter pylori infection. de Boer WA, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):109–12

A one-week quadruple eradication regimen for Helicobacter pylori in routine clinical practice. Vautier G, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):107–8

Anti-Helicobacter pylori treatment in bleeding ulcers: randomized controlled trial comparing 2-day versus 7-day bismuth quadruple therapy. Kung NN, et al. **Am J Gastroenterol** 1997 Mar;92(3):438–41

Ranitidine bismuth citrate with clarithromycin for the treatment of duodenal ulcer. Bardhan KD, et al. **Gut** 1997 Aug;41(2):181–6

How to achieve a near 100% cure rate for H. pylori infection in peptic ulcer patients. A personal viewpoint. de Boer WA. **J Clin Gastroenterol** 1996 Jun;22(4):313–6 (28 ref.)

One-week therapy for Helicobacter pylori. A randomized trial of two treatment regimens. Scheiman JM, et al. **J Clin Gastroenterol** 1996 Oct;23(3):170–3

Radio-opaque punctate opacities on the chest radiograph following intravenous injection of a bismuth compound. Addrizzo-Harris DJ, et al. **Thorax** 1997 Mar;52(3):303–4

[Anti-Helicobacter pylori therapy. Who should be treated, how, how long?] Lux G. **Fortschr Med** 1996 Aug 20; 114(22–23):273–5 **(Ger)**

[Eradication of Helicobacter pylori in patients with recurrent abdominal pain using a triple drug treatment] Ramírez Mayans J, et al. **Rev Gastroenterol Mex** 1996 Oct–Dec; 61(4):310–3 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Safety of bismuth [letter; comment] Playford RJ, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1035–6. Comment on: Aliment Pharmacol Ther 1996 Aug;10(4):459–67.

Black granules on the skin after bismuth subsalicylate ingestion. Ruiz-Maldonado R, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):489–90

ANALYSIS

Gastroprotective effect of ranitidine bismuth citrate is associated with increased mucus bismuth concentration in rats. Tanaka S, et al. **Gut** 1996 Aug;39(2):164–71

Applications of a self-collimating BGO detector system to radiological emergency response. Pernick A, et al. **Health Phys** 1997 Jan;72(1):136–40

ANTAGONISTS & INHIBITORS

Resistance to bismuth among gram-negative bacteria is dependent upon iron and its uptake. Domenico P, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1031–40

BISMUTH

CHEMISTRY

Evaluation of an internal cyclotron target for the production of 211At via the 209Bi (alpha,2n)211 at reaction. Larsen RH, et al. **Appl Radiat Isot** 1996 Feb;47(2):135–43

Thermomechanical investigation of poly(methylmethacrylate) containing an organobismuth radiopacifying additive. Rawls HR, et al. **J Biomed Mater Res** 1996 Jul;31(3):339–43

Crystal structure and characterization of the bismuth(III) compound with quinolone family member (ciprofloxacin). Antibacterial study. Turel I, et al. **J Inorg Biochem** 1997 Jun;66(4):241–5

212Bi–DOTMP: an alpha particle emitting bone-seeking agent for targeted radiotherapy. Hassfjell SP, et al. **Nucl Med Biol** 1997 Apr;24(3):231–7

METABOLISM

Bismuth concentration in blood and urine of children treated with ventrisol (polfa) preliminary study. Iwańczak F, et al. **Rocz Akad Med Bialymst** 1995;40(3):685–91

PHARMACOKINETICS

Comparative absorption of bismuth in Sprague–Dawley rats following oral administration of preparations containing bismuth sucrose octasulfate, bismuth subsalicylate, and bismuth subcitrate. Rao N, et al. **Biopharm Drug Dispos** 1997 Jan;18(1):1–8

Pharmacokinetics of bismuth and ranitidine following single doses of ranitidine bismuth citrate. Koch KM, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):201–5

Pharmacokinetics of bismuth and ranitidine following multiple doses of ranitidine bismuth citrate. Koch KM, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):207–11

Distribution of bismuth in the brain after intraperitoneal dosing of bismuth subnitrate in mice: implications for routes of entry of xenobiotic metals into the brain. Ross JF, et al. **Brain Res** 1996 Jul 1;725(2):137–54

Hepatic and cerebrospinal fluid accumulation of aluminium and bismuth in volunteers taking short course anti-ulcer therapy. Gane E, et al. **J Gastroenterol Hepatol** 1996 Oct; 11(10):911–5

PHARMACOLOGY

Effects of ranitidine bismuth citrate on gastric acid secretion and gastrin release in subjects with and without Helicobacter pylori infection. Ciociola AA, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):905–12

Cytoprotective effect of bismuth subsalicylate in indomethacin-treated rats is associated with enhanced mucus bismuth concentration. Tanaka S, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):605–12

Bismuth–dimercaprol exposes surface components of Klebsiella pneumoniae camouflaged by the polysaccharide capsule. Domenico P, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:269–70

Enhancement of bismuth antibacterial activity with lipophilic thiol chelators. Domenico P, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1697–703

In vitro synergy testing of clarithromycin and 14-hydroxyclarithromycin with amoxicillin or bismuth subsalicylate against Helicobacter pylori. Meyer JM, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1607–8

Metallothionein induction by bismuth in neonatal rat primary astrocyte cultures. Cowan K, et al. **Brain Res** 1996 Sep 2;732(1–2):106–12

Protection against chemically-induced oxidative gastrointestinal tissue injury in rats by bismuth salts. Bagchi D, et al. **Dig Dis Sci** 1997 Sep;42(9):1890–900

Resistance to bismuth among gram-negative bacteria is dependent upon iron and its uptake. Domenico P, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1031–40

Activity of amoxicillin, metronidazole, bismuth salicylate and six aminoglycosides against Helicobacter pylori. Brenciaglia MI, et al. **J Chemother** 1996 Feb;8(1):52–4

Crystal structure and characterization of the bismuth(III) compound with quinolone family member (ciprofloxacin). Antibacterial study. Turel I, et al. **J Inorg Biochem** 1997 Jun;66(4):241–5

Evaluation of dithiol chelating agents as potential adjuvants for anti-IL-2 receptor lead or bismuth alpha radioimmunotherapy. Jones SB, et al. **Nucl Med Biol** 1996 Feb;23(2):105–13

POISONING

Photo quiz. Pepto Bismol poisoning. Hearney EG, et al. **Clin Infect Dis** 1996 Jul;23(1):37,159

Acute renal failure due to overdose of colloidal bismuth [letter] Akpolat I, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1890–1

THERAPEUTIC USE

Helicobacter pylori eradication in clinical practice: one-week low-dose triple therapy is preferable to classical bismuth based triple therapy. Goddard AF, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1009–13

Ranitidine bismuth citrate therapy [letter; comment] Harris A, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1035. Comment on: Aliment Pharmacol Ther 1996 Jun;10(3):251–61.

Long-term follow-up after cure of Helicobacter pylori infection with 4 days of quadruple therapy. Lai JY, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):645–50

The actions of bismuth in the treatment of Helicobacter pylori infection. Lambert JR, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:27–33 (62 ref.)

Ranitidine bismuth citrate: a novel anti-ulcer agent with different physico-chemical characteristics and improved biological activity to a bismuth citrate-ranitidine admixture. McColm AA, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):241–50

Ranitidine bismuth citrate plus clarithromycin is effective for healing duodenal ulcers, eradicating H. pylori and reducing ulcer recurrence. RBC H. pylori Study Group [see comments] Peterson WL, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):251–61. Comment in: Aliment Pharmacol Ther 1996 Dec;10(6):1035.

Furazolidone, amoxycillin, bismuth triple therapy for Helicobacter pylori infection. Segura AM, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):529–32

Review article: safety of bismuth in the treatment of gastrointestinal diseases [see comments] Tillman LA, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):459–67 (60 ref.). Comment in: Aliment Pharmacol Ther 1996 Dec;10(6):1035–6.

The safety and efficacy of ranitidine bismuth citrate in combination with antibiotics for the eradication of Helicobacter pylori. Wyeth JW, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):623–30

Bismuth subsalicylate instead of metronidazole with lansoprazole and clarithromycin for Helicobacter pylori infection: a randomized trial. Chey WD, et al. **Am J Gastroenterol** 1997 Sep;92(9):1483–6

A comparison between omeprazole-based triple therapy and bismuth-based triple therapy for the treatment of Helicobacter pylori infection: a prospective randomized 1-yr follow-up study. Lerang F, et al. **Am J Gastroenterol** 1997 Apr;92(4):653–8

In vitro and in vivo studies on the development of the alpha-emitting radionuclide bismuth 212 for intraperitoneal use against microscopic ovarian carcinoma. Rotmensch J, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):833–40; discussion 840–1

Pylorid, H. pylori and peptic ulcer. **Drug Ther Bull** 1996 Sep;34(9):69–70

Nasal packing for epistaxis: two methods compared [letter] Saab M, et al. **Eur J Emerg Med** 1997 Mar;4(1):44

Cure of gastric ulcer disease after cure of Helicobacter pylori infection--German Gastric Ulcer Study [see comments] Bayerdörffer E, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):343–9. Comment in: Eur J Gastroenterol Hepatol 1996 Apr;8(4):333–4.

Follow-up on 242 patients with peptic ulcer disease one year after eradication of Helicobacter pylori infection. Berstad A, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):655–9

Eradication of Helicobacter pylori: the results of a pilot study of 3, 5 & 7 day triple antibiotic regime with bismuth for one month. O'Connor HJ, et al. **Ir J Med Sci** 1997 Jan–Mar; 166(1):32–4

Bismuth subsalicylate prophylaxis of Cryptosporidium parvum infection in immunodeficient mice. Greenfield RA, et al. **J Eukaryot Microbiol** 1996 Sep–Oct;43(5):69S

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Webb DD. **JAMA** 1996 Oct 9; 276(14):1136; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Treatment of Helicobacter pylori infection: a review. Blecker U, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):391–9 (105 ref.)

BIS(5'-NUCLEOSIDYL)OLIGOPHOSPHATES see **DINUCLEOSIDE PHOSPHATES**

BIS(5'-NUCLEOSIDYL)PHOSPHATES see **DINUCLEOSIDE PHOSPHATES**

BISON

States, agencies discuss solutions for handling Yellowstone bison, brucellosis [news] Inserro JC. **J Am Vet Med Assoc** 1997 Mar 1;210(5):593–5

The issue of safe testing for brucellosis in Yellowstone bison [letter] Toigo J. **J Am Vet Med Assoc** 1997 Jul 1;211(1):25–7

Isolation of Pasteurella spp. from free-ranging American bison (Bison bison). Taylor SK, et al. **J Wildl Dis** 1996 Apr;32(2):322–5

Management practices to minimise infectious and parasitic diseases of farmed and ranched cervids and bison. Haigh JC. **Rev Sci Tech** 1996 Mar;15(1):209–26 (48 ref.)

Study shows one-fifth of female bison infected [news] Baskin Y. **Science** 1997 Jun 20;276(5320):1786

Bison study marks radical shift for research council [news] Lawler A. **Science** 1997 Jun 20;276(5320):1786–7

ANATOMY & HISTOLOGY

Variability of shape and ultrastructure of supporting cell nuclei (Sertoli cells) in the European bison. Matuszewska M, et al. **Folia Morphol (Warsz)** 1996;55(4):390–2

Neurons of the substantia nigra in the European bison. Szteyn S, et al. **Folia Morphol (Warsz)** 1995;54(4):209–18

GENETICS

[Variability of satellite DNA II and IV in cattle, various representatives of the subfamily Bovinae and their hybrids] Smirnov AF, et al. **Genetika** 1996 Sep;32(9):1263–9 (Eng. Abstr.) **(Rus)**

[Polymorphism of the kappa-casein gene in populations of the subfamily Bovinae] Sulimova GE, et al. **Genetika** 1996 Nov;32(11):1576–82 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Comparative effects of bovine cytokines on cattle and bison peripheral blood mononuclear cell proliferation. Stevens MG, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb; 20(2):155–62

MICROBIOLOGY

Abortion and placentitis in pregnant bison (Bison bison) induced by the vaccine candidate, Brucella abortus strain RB51. Palmer MV, et al. **Am J Vet Res** 1996 Nov; 57(11):1604–7

Infection of cattle with Brucella abortus biovar 1 isolated from a bison in Wood Buffalo National Park. Forbes LB, et al. **Can Vet J** 1996 Jul;37(7):415–9

Determination of stability of Brucella abortus RB51 by use of genomic fingerprint, oxidative metabolism, and colonial morphology and differentiation of strain RB51 from B. abortus isolates from bison and elk. Jensen AE, et al. **J Clin Microbiol** 1996 Mar;34(3):628–33

PARASITOLOGY

[Parasitic arthropods of Bison bonasus from the Białowieza primeval forest] Kadulski S, et al. **Wiad Parazytol** 1996; 42(2):255–60 (Eng. Abstr.) **(Pol)**

BISOPROLOL

ECONOMICS

[Cost effectiveness of bisoprolol in heart failure. Economic evaluation of the Cardiac Insufficiency Bisoprolol Study (CIBIS) for Germany] Schädlich PK, et al. **Med Klin** 1997 Aug 15;92(8):499–504 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Comparative bioavailability of a metoprolol controlled release formulation and a bisoprolol normal release tablet after single oral dose administration in healthy volunteers. Deroubaix X, et al. **Int J Clin Pharmacol Ther** 1996 Feb; 34(2):61–70

Stereoselective pharmacokinetics of bisoprolol after intravenous and oral administration in beagle dogs. Horikiri Y, et al. **J Pharm Sci** 1997 May;86(5):560–4

PHARMACOLOGY

Bisoprolol attenuates noradrenaline- and phenylephrine-evoked venoconstriction in man in vivo. Abdelmawla AH, et al. **Br J Clin Pharmacol** 1997 Jul; 44(1):61–8

THERAPEUTIC USE

Iodine-123 metaiodobenzylguanidine myocardial scintigraphy for prediction of response to beta-blocker therapy in patients with dilated cardiomyopathy. Suwa M, et al. **Am Heart J** 1997 Mar;133(3):353–8

Design of the cardiac insufficiency bisoprolol study II (CIBIS II). The CIBIS II Scientific Committee. **Fundam Clin Pharmacol** 1997;11(2):138–42

Assessment of antihypertensive effect by blood pressure monitoring: applications to bisoprolol and lisinopril in a double-blind study. Vaïsse B, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):612–7

A new antihypertensive strategy for black patients: low-dose multimechanism therapy. Saunders E, et al. **J Natl Med Assoc** 1996 Mar;88(3):171–5

Treatment of the hyperventilation syndrome with bisoprolol: a placebo-controlled clinical trial. Van De Ven LL, et al. **J Psychosom Res** 1995 Nov;39(8):1007–13

Comparison of the therapeutic effects of the beta-blocking agent bisoprolol and the calcium-blocking agent diltiazem in patients with heart failure due to dilated cardiomyopathy. Suwa M, et al. **Jpn Circ J** 1996 Oct; 60(10):767–73

[Clinical effects of bisoprolol in congestive heart failure due to dilated cardiomyopathy] Li Z, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):683–6 (Eng. Abstr.) **(Chi)**

[Drug of the month. Maxsoten] Kulbertus H. **Rev Med Liege** 1996 May;51(5):382–4 **(Fre)**

[Comparative study of verapamil and bisoprolol in the secondary prevention of myocardial infarction] Sárosi I, et al. **Orv Hetil** 1997 Aug 3;138(31):1939–45 (40 ref.) (Eng. Abstr.) **(Hun)**

[Effectiveness and tolerability of bisoprolol vs. nifedipine in uremic patients with ischemic cardiopathy in dialysis treatment] Cice G, et al. **Cardiologia** 1997 Apr; 42(4):397–403 (Eng. Abstr.) **(Ita)**

BISPECIFIC ANTIBODIES see **ANTIBODIES, BISPECIFIC**

BISPHENOL A-GLYCIDYL METHACRYLATE

Mutans streptococci and incipient caries adjacent to glass ionomer cement or resin-based composite in orthodontics. Ortendahl T, et al. **Am J Orthod Dentofacial Orthop** 1997 Sep;112(3):271-4

Bonding of composite to bone: durability and effect of drying time. Baidya P, et al. **Br J Oral Maxillofac Surg** 1996 Oct; 34(5):406-8

ADVERSE EFFECTS

Estrogenicity of resin-based composites and sealants in dentistry [letter; comment] Habib CM, et al. **Environ Health Perspect** 1996 Aug;104(8):808. Comment on: Environ Health Perspect 1996 Mar;104(3):298-305.

CHEMISTRY

Time-related bond strengths of light-cured and chemically cured bonding systems: an in vitro study. Chamda RA, et al. **Am J Orthod Dentofacial Orthop** 1996 Oct; 110(4):378-82

Effect of propanal and diacetyl on quantity of remaining double bonds of chemically cured BisGMA/TEGDMA resins. Peutzfeldt A, et al. **Eur J Oral Sci** 1996 Jun; 104(3):309-12

Dental materials and estrogenicity [letter] Habib CM, et al. **J Am Dent Assoc** 1996 Sep;127(9):1292

PHARMACOLOGY

Estrogenicity of resin-based composites and sealants used in dentistry [see comments] Olea N, et al. **Environ Health Perspect** 1996 Mar;104(3):298-305. Comment in: Environ Health Perspect 1996 Aug;104(8):808. Comment in: Environ Health Perspect 1997 Apr;105(4):362.

THERAPEUTIC USE

Prosthetic replacement of the hip in dogs using bioactive bone cement. Matsuda Y, et al. **Clin Orthop** 1997 Mar; (336):263-77

Effectiveness of visible light fissure sealant (Delton) versus fluoride varnish (Duraphat): 24-month clinical trial. Bravo M, et al. **Community Dent Oral Epidemiol** 1996 Feb; 24(1):42-6

BISPHOSPHOGLYCERATE MUTASE

CHEMISTRY

Critical role of human bisphosphoglycerate mutase Cys22 in the phosphatase activator-binding site. Ravel P, et al. **J Biol Chem** 1997 May 30;272(22):14045-50

METABOLISM

A study on the complexes between human erythrocyte enzymes participating in the conversions of 1,3-diphosphoglycerate. Fokina KV, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):185-92

New procedures to measure synthase and phosphatase activities of bisphosphoglycerate mutase. Interest for development of therapeutic drugs. Ravel P, et al. **C R Acad Sci III** 1997 Jan;320(1):27-33

BISPHOSPHOGLYCERATES see **DIPHOSPHOGLYCERIC ACIDS**

BISPHOSPHONATES see **DIPHOSPHONATES**

BISULFITE REDUCTASES see **SULFITE REDUCTASES**

BITE FORCE

Masseter muscle activity during the whole day in young adults. Miyamoto K, et al. **Am J Orthod Dentofacial Orthop** 1996 Oct;110(4):394-8

A study of maximum bite force during growth and development. Braun S, et al. **Angle Orthod** 1996;66(4):261-4

Twitch interpolation in the assessment of the maximum force-generating capacity of the jaw-closing muscles in man. Lyons MF, et al. **Arch Oral Biol** 1996 Dec; 41(12):1161-8

Coupling electrical and mechanical outputs of human jaw muscles undertaking multidirectional bite-force tasks. Mao JJ, et al. **Arch Oral Biol** 1996 Dec;41(12):1141-7

Biomechanical implications of lateral pterygoid contribution to biting and jaw opening in humans. Osborn JW. **Arch Oral Biol** 1995 Dec;40(12):1099-108

The effect of pressure on a maximum incisal bite force in man. Paphangkorakit J, et al. **Arch Oral Biol** 1997 Jan; 42(1):11-7

Contribution of the digastric muscles to the control of bite force in man. van Willigen JD, et al. **Arch Oral Biol** 1997 Jan;42(1):45-56

Fatigue root fracture: a spontaneous root fracture in non-endodontically treated teeth. Yeh CJ. **Br Dent J** 1997 Apr 12;182(7):261-6

Influence of the thickness of soft tissues overlying human masseter and temporalis muscles on the electromyographic maximal voluntary contraction level. van der Glas HW, et al. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 1)):87-95

Controllability of temporomandibular joint loading by coordinative activities of masticatory muscles: a two-dimensional static analysis. Itoh K, et al. **Front Med Biol Eng** 1997;8(2):123-38

Functional loads on freestanding and connected implants in three-unit mandibular prostheses opposing complete dentures: an in vivo study. Gunne J, et al. **Int J Oral Maxillofac Implants** 1997 May-Jun;12(3):335-41

Effects of attachment clips on occlusal force transmission in removable implant-supported overdentures and cantilevered superstructures. Kayacan R, et al. **Int J Oral Maxillofac Implants** 1997 Mar-Apr;12(2):228-36

An experimental analysis of the stresses on the implant in an implant-tooth-supported prosthesis: a technical note. Uysal H, et al. **Int J Oral Maxillofac Implants** 1997 Jan-Feb;12(1):118-24

The influence of orthognathic surgery on occlusal force in patients with vertical facial deformities. Hunt NP, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):87-91

The association among occlusal contacts, clenching effort, and bite force distribution in man. Kikuchi M, et al. **J Dent Res** 1997 Jun;76(6):1316-25

Effect of jaw opening on the direction and magnitude of human incisal bite forces. Paphangkorakit J, et al. **J Dent Res** 1997 Jan;76(1):561-7

Modulation of the mandibular stretch reflex sensitivity during various phases of rhythmic open-close movements in humans. van der Bilt A, et al. **J Dent Res** 1997 Apr; 76(4):839-47

Regulation of masticatory force during cortically induced rhythmic jaw movements in the anesthetized rabbit. Hidaka O, et al. **J Neurophysiol** 1997 Jun;77(6):3168-79

Effect of mandibular setback surgery on occlusal force. Kim YG, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):121-6; discussion 126-8

Comparison of habitual masticatory cycles and muscle activity before and after orthognathic surgery. Youssef RE, et al. **J Oral Maxillofac Surg** 1997 Jul;55(7):699-707; discussion 707-8

Effect of occlusal pressure on the histopathological changes in denture supporting tissues. Hara T, et al. **J Oral Rehabil** 1996 Jun;23(6):363-71

The influence of occlusal scheme on masticatory forces using implant stabilized bridges. Hobkirk JA, et al. **J Oral Rehabil** 1996 Jun;23(6):386-91

Influence of the buccolingual position of artificial posterior teeth on the pressure distribution on the supporting tissue under a complete denture. Kawano F, et al. **J Oral Rehabil** 1996 Jul;23(7):456-63

A computerized method for evaluating balance of occlusal load. Matsui Y, et al. **J Oral Rehabil** 1996 Aug;23(8):530-5

Loading conditions of endosseous implants in an edentulous human mandible: a three-dimensional, finite-element study. Meijer HJ, et al. **J Oral Rehabil** 1996 Nov;23(11):757-63

The influence of occlusal design on simulated masticatory forces transferred to implant-retained prostheses and supporting bone. Kaukinen JA, et al. **J Prosthet Dent** 1996 Jul;76(1):50-5

Three-dimensional finite element analysis of stress-distribution around single tooth implants as a function of bony support, prosthesis type, and loading during function. Papavasiliou G, et al. **J Prosthet Dent** 1996 Dec;76(6):633-40

Effects of sustained unilateral molar clenching on the temporomandibular joint space. Kuboki T, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):616-24

Schedule-induced masseter EMG in facial pain subjects vs. no-pain controls. Gramling SE, et al. **Physiol Behav** 1997 Feb;61(2):301-9

[The effect of occlusal force on the formation of experimental cervical wedge-shaped defects on human teeth] Wang J, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Sep; 30(5):268-70, 319 (Eng. Abstr.) **(Chi)**

[The determination of the intensity of premolar and molar maximal forces during the isometric contraction of the masticatory muscles due to forced mandibular closure] Dheyriat A, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1996 Jun-Sep; 39(3-4):87-94 (Eng. Abstr.) **(Fre)**

[The demonstration of a relation between premolar force and molar force within the limits of a simplified approach to masticatory system functioning] Dheyriat A, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1996 Jun-Sep; 39(3-4):95-101 (Eng. Abstr.) **(Fre)**

[A clinical and physiological evaluation of masticatory center in shortened arch] Sodeyama A. **Kokubyo Gakkai Zasshi** 1996 Dec;63(4):599-619 (Eng. Abstr.) **(Jpn)**

[A new device for measuring occlusion pressure] Belda J, et al. **Arch Bronconeumol** 1996 Oct;32(8):410-3 (Eng. Abstr.) **(Spa)**

BITE REGISTRATION see **JAW RELATION RECORD**

BITES AND STINGS

Exotic reptile bites. Kelsey J, et al. **Am J Emerg Med** 1997 Sep;15(5):536-7

A fish induced pneumothorax: dilemmas in the remote management of a sucking chest wound [see comments] Berger D. **BMJ** 1996 Dec 21-28;313(7072):1617-8. Comment in: BMJ 1997 Aug 2;315(7103):315.

Managing a fish induced injury [letter] Henman PD, et al. **BMJ** 1997 Apr 19;314(7088):1199-200

Man's best friend: life threatening sepsis after minor dog bite [see comments] Mellor DJ, et al. **BMJ** 1997 Jan 11; 314(7074):129-30. Comment in: BMJ 1997 Jan 11;314(7074):88-90.

"I've just been bitten by a dog" [editorial; comment] Moore F. **BMJ** 1997 Jan 11;314(7074):88-90. Comment on: BMJ 1997 Jan 11;314(7074):129-30.

Prophylaxis should be considered even for trivial animal bites [letter] Morgan MS. **BMJ** 1997 May 10;314(7091):1413

Fatal case of rabies. **Can Med Assoc J** 1997 May 1; 156(9):1311-2 **(Eng, Fre)**

Neonatal jaundice, animal-induced injuries and disease, and immunizations. Gerson WT. **Curr Opin Pediatr** 1997 Aug; 9(4):447-55 (45 ref.)

Stingray hickey. Evans LA, et al. **Cutis** 1996 Sep;58(3):208-10

Bugs and bites. Elston DM. **Del Med J** 1996 Sep;68(9):445-50 (13 ref.)

Increasing DNA extraction yield from saliva stains with a modified Chelex method. Sweet D, et al. **Forensic Sci Int** 1996 Dec 27;83(3):167-77

Stingray injury. Evans RJ, et al. **J Accid Emerg Med** 1996 May;13(3):224-5

Dogs, epilepsy and airways. The dog always wins! [letter] Williamson S. **J Accid Emerg Med** 1996 Nov;13(6):432-3

Accelerated infectivity of tick-transmitted Lyme disease spirochetes to vector ticks. Shih CM, et al. **J Clin Microbiol** 1996 Sep;34(9):2297-9

Efficacy of antibiotic prophylaxis for prevention of Lyme disease. Warshafsky S, et al. **J Gen Intern Med** 1996 Jun; 11(6):329-33

Big cats attack at the nape of the neck [letter] Loefler IJ. **J Trauma** 1997 Sep;43(3):560

Ticks (Acari: Ixodida) uncommonly found biting humans in North Carolina. Harrison BA, et al. **J Vector Ecol** 1997 Jun;22(1):6-12

Dog bites recognized as public health problem [news] Voelker R. **JAMA** 1997 Jan 22-29;277(4):278; 280

Coping with the great outdoors. Boxd V. **Occup Health Saf** 1996 Sep;65(9):70-1

CLASSIFICATION

Discontinuing venom immunotherapy [letter; comment] Graft DF. **J Allergy Clin Immunol** 1997 Feb;99(2):271. Comment on: J Allergy Clin Immunol 1996 Feb;97(2):579-87.

COMPLICATIONS

Argas reflexus (the pigeon tick)--a household pest [letter] Thewes M, et al. **Acta Derm Venereol** 1997 Mar;77(2):173-4

Leukocoria caused by occult penetrating trauma in a child. Guemes A, et al. **Am J Ophthalmol** 1997 Jul;124(1):117-9

Unusual manifestations of hypersensitivity after a tick bite: report of two cases. Beaudouin E, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):43-6

Isolated traumatic denervation of the extensor pollicis longus. Divelbiss BJ, et al. **Arch Phys Med Rehabil** 1997 Jul; 78(7):783-5

Rabies in the far north [letter] Banks RD, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1106

Lymphocutaneous sporotrichosis associated with a squirrel bite: case report and review. Saravanakumar PS, et al. **Clin Infect Dis** 1996 Sep;23(3):647-8

Failure of postexposure treatment of rabies in children. Wilde H, et al. **Clin Infect Dis** 1996 Feb;22(2):228-32

Bee-sting granulomas in the skin [letter] Lee CW, et al. **Dermatology** 1996;193(4):355-6

Capnocytophaga canimorsus infections in human: review of the literature and cases report. Lion C, et al. **Eur J Epidemiol** 1996 Oct;12(5):521-33 (83 ref.)

Dog bites causing upper-limb fractures in children. Wass AR, et al. **Injury** 1996 Jul;27(6):433-5

Acute urticaria caused by pigeon ticks (Argas reflexus). Veraldi S, et al. **Int J Dermatol** 1996 Jan;35(1):34-5

Bullous eruption in a patient with systemic lupus erythematosus: mite dermatitis caused by Cheyletiella blakei. Cvancara JL, et al. **J Am Acad Dermatol** 1997 Aug; 37(2 Pt 1):265-7

Persistent cutaneous hypersensitivity reaction after a Hawaiian box jellyfish sting (Carybdea alata). Tamanaha RH, et al. **J Am Acad Dermatol** 1996 Dec;35(6):991-3

Five-year longitudinal study of efficacy and safety of purified Vero cell rabies vaccine for post-exposure prophylaxis of rabies in Indian population. Seghal S, et al. **J Commun Dis** 1997 Mar;29(1):23-8

Pasteurella multocida arthritis of the shoulder associated with postsurgical lymphedema. Fellows L, et al. **J Rheumatol** 1996 Oct;23(10):1824-5

Actinobacillus suis infection after a pig bite [letter] [see comments] Escande F, et al. **Lancet** 1996 Sep 28; 348(9031):888. Comment in: Lancet 1996 Nov 2;348(9036):1246.

Dog bite-induced canalicular lacerations: a review of 17 cases. Slonim CB. **Ophthal Plast Reconstr Surg** 1996 Sep; 12(3):218-22 (23 ref.)

Infections after shark attacks in Australia. Royle JA, et al. **Pediatr Infect Dis J** 1997 May;16(5):531-2

Capnocytophaga canimorsus endophthalmitis.

Zimmer-Galler IE, et al. **Retina** 1996;16(2):163-4

Case reports and mini review of bee stings of the cornea. Chuah G, et al. **Singapore Med J** 1996 Aug;37(4):389-91 (12 ref.)

Animal bites and rabies: physicians and veterinarians must work together. MacWilliams P. **Wis Med J** 1996 Apr; 95(4):242

[Serological effect after immunization with rabies vaccine of different doses] Chen AZ, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):139-40 (Eng. Abstr.) **(Chi)**

[Erysipelothrix rhusiopathiae bacteremia after dog bite] Abedini S, et al. **Ugeskr Laeger** 1997 Jul 7;159(28):4400-1 (Eng. Abstr.) **(Dan)**

[A case from practice (366). Jellyfish sting--neurotoxic activity on the sensory nerves] Kyburz D. **Schweiz Rundsch Med Prax** 1996 Dec 3;85(49):1596-7 **(Ger)**

[Treatment of open fractures due to dog bite] Dimant A, et al. **Harefuah** 1997 Apr 1;132(7):461-3, 527 (Eng. Abstr.) **(Heb)**

[Tularemia transmitted by arthropod bites] Mišić-Majerus L, et al. **Lijec Vjesn** 1996 Mar-Apr;118(3-4):68-71 (Eng. Abstr.) **(Scr)**

[Infection caused by pig bite (letter)] Garduño E, et al. **Enferm Infecc Microbiol Clin** 1996 May;14(5):332-3 **(Spa)**

DIAGNOSIS

Case report: Weever fish sting--an unusual cause of foot pain. Mulcahy DM, et al. **Ir J Med Sci** 1996 Jul-Sep;165(3):153-4

A case of tick bite from Amblyomma testudinarium on the glans penis. Yamada Y, et al. **J Dermatol** 1996 Feb; 23(2):136-8

Diagnostic laparoscopy for dog bite wounds to the abdomen [letter] Namias N, et al. **J Laparoendosc Surg** 1996 Dec; 6(6):435-6

[Case report of jellyfish injury] Raupp U, et al. **Hautarzt** 1996 Jan;47(1):47-52 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Prevention of borreliosis in persons bitten by infected ticks. Korenberg EI, et al. **Infection** 1996 Mar-Apr;24(2):187-9

Physician preferences in the diagnosis and treatment of Lyme disease in the United States. Ziska MH, et al. **Infection** 1996 Mar-Apr;24(2):182-6 (29 ref.)

Treatment of pig bites [letter; comment] Morgan MS. **Lancet** 1996 Nov 2;348(9036):1246. Comment on: Lancet 1996 Sep 28;348(9031):888.

EPIDEMIOLOGY

Potential force of infection of human rabies transmitted by vampire bats in the Amazonian region of Brazil. Schneider MC, et al. **Am J Trop Med Hyg** 1996 Dec;55(6):680-4

Dog bites in Bosnia. Croft A, et al. **Br J Gen Pract** 1997 Jul;47(420):435-7

The geographical distribution of tick bites and erythema migrans in general practice in The Netherlands. de Mik EL, et al. **Int J Epidemiol** 1997 Apr;26(2):451-7

In defense of pet friendly stores [letter] Beck AM. **J Am Vet Med Assoc** 1997 Jun 15;210(12):1726-7

Animal bites in India [letter; comment] Dutta JK. **J Assoc Physicians India** 1996 Sep;44(9):667-8. Comment on: J Assoc Physicians India 1996 Jan;44(1):37-8.

Epidemiology of venomous bites and stings in Florida. Ruskosky D, et al. **J Fla Med Assoc** 1996 Mar;83(3):172-3

Worldwide deaths and severe envenomation from jellyfish stings. Fenner PJ, et al. **Med J Aust** 1996 Dec 2-16; 165(11-12):658-61 (32 ref.)

The public health impact of dog attacks in a major Australian city. Thompson PG. **Med J Aust** 1997 Aug 4;167(3):129-32

Incidence of dog bites in Milwaukee, wis. Ndon JA, et al. **Wis Med J** 1996 Apr;95(4):237-41

[Contacts of the population of the Republic of Sakha (Yakutia) with the tick Ixodes persulcatus Sch., 1930] Egorov IIa, et al. **Med Parazitol (Mosk)** 1996 Apr-Jun; (2):37-40 **(Rus)**

[Animal bites. Study of 606 cases] Knobel Freud H, et al. **Rev Clin Esp** 1997 Aug;197(8):560-3 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Law enforcement K-9 dog bites: injuries, complications, and trends. Hutson HR, et al. **Ann Emerg Med** 1997 May; 29(5):637-42 (33 ref.)

AVMA forum focuses on aggressive dogs [news] Suzik HA. **J Am Vet Med Assoc** 1997 Feb 1;210(3):305-6, 308

Coelenterate venom research 1991-1995: clinical, chemical and immunological aspects. Burnett JW, et al. **Toxicon** 1996 Nov-Dec;34(11-12):1377-83 (16 ref.)

IMMUNOLOGY

Honeybee venom allergy: immunoblot studies in allergic patients after immunotherapy and before sting challenge. Jeep S, et al. **Allergy** 1996 Aug;51(8):540-6

Rabies vaccine. **Indian Pediatr** 1996 Feb;33(2):160-3

Duration of venom immunotherapy [letter; comment] Müller UR, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):271-2. Comment on: J Allergy Clin Immunol 1996 Feb;97(2):579-87.

MICROBIOLOGY

Comparative in vitro activities of DU-6859a, levofloxacin, ofloxacin, sparfloxacin, and ciprofloxacin against 387 aerobic and anaerobic bite wound isolates. Goldstein EJ, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1193-5

In vitro activity of Bay 12-8039, a new 8-methoxyquinolone, compared to the activities of 11 other oral antimicrobial agents against 390 aerobic and anaerobic bacteria isolated from human and animal bite wound skin and soft tissue infections in humans. Goldstein EJ, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1552-7

Frequency of isolation of Porphyromonas species from infected dog and cat bite wounds in humans and their characterization by biochemical tests and arbitrarily primed-polymerase chain reaction fingerprinting. Citron DM, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S78-82

Fatal attraction or how do we get tick bites? Kahl O. **Infection** 1996 Sep-Oct;24(5):394-5 (5 ref.)

Controversies in the use of antimicrobials for the prevention and treatment of Lyme disease. Wormser GP. **Infection** 1996 Mar-Apr;24(2):178-81 (38 ref.)

Characterization of saccharolytic Bacteroides and Prevotella isolates from infected dog and cat bite wounds in humans. Alexander CJ, et al. **J Clin Microbiol** 1997 Feb;35(2):406-11

Pasteurella multocida infectious arthritis with acute gout after a cat bite. Butt TS, et al. **J Rheumatol** 1997 Aug; 24(8):1649-52 (56 ref.)

Animal bites and Pasturella infections. Garcia VF. **Pediatr Rev** 1997 Apr;18(4):127-30

Pasteurella aerogenes isolated from ulcers or wounds in humans with occupational exposure to pigs: a report of 7 Danish cases. Ejlertsen T, et al. **Scand J Infect Dis** 1996; 28(6):567-70

Wound infection caused by Staphylococcus hyicus subspecies hyicus after a donkey bite. Osterlund A, et al. **Scand J Infect Dis** 1997;29(1):95

[Neuroborreliosis in Chile. Report of a child probably infected by imported pets] Abarca K, et al. **Rev Med Chil** 1996 Aug;124(8):975-9 (Eng. Abstr.) **(Spa)**

MORTALITY

From the Centers for Disease Control and Prevention. Dog-bite-related fatalities--United States, 1995-1996. **JAMA** 1997 Jul 23-30;278(4):278-9

Dog-bite-related fatalities--United States, 1995-1996. **MMWR Morb Mortal Wkly Rep** 1997 May 30;46(21):463-7

PATHOLOGY

[The establishment of the cause of death from bites by animal teeth under unknown circumstances of the trauma] Barinov EKh, et al. **Sud Med Ekspert** 1997 Jan-Mar;40(1):49-50 **(Rus)**

PREVENTION & CONTROL

Fatal attraction or how do we get tick bites? Kahl O. **Infection** 1996 Sep-Oct;24(5):394-5 (5 ref.)

Dog bite prevention: responsible pet ownership and animal safety. Cornwell JM. **J Am Vet Med Assoc** 1997 Apr 15; 210(8):1147-8 (10 ref.)

"Pet friendly" stores: are they consumer friendly? [news] Lopez T. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1088-9

Dog bite prevention from animal control's perspective. Rieck D. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1145-6 (1 ref.)

[Lice, fleas, ticks and ants: non-venomous apterous arthropods] **Med Trop (Mars)** 1996;56(3):238-40 **(Fre)**

[Antibacterial therapy as a means of preventing ixodid tick-borne borreliosis] Korenberg EI, et al. **Med Parazitol (Mosk)** 1996 Apr-Jun;(2):3-8 (Eng. Abstr.) **(Rus)**

[The clinical aspects of the results of antibiotic prophylaxis in ixodid tick-borne borreliosis] Vorob'eva NN, et al. **Med Parazitol (Mosk)** 1996 Apr-Jun;(2):8-10 **(Rus)**

PSYCHOLOGY

Dermatophagia: "wolf-biter". Scott MJ Jr, et al. **Cutis** 1997 Jan;59(1):19-20

On the temporal onset of postmortem animal scavenging. "Motivation" of the animal. Rothschild MA, et al. **Forensic Sci Int** 1997 Sep 19;89(1-2):57-64

Effects of aggressive behavior on canine welfare. Hunthausen W. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1134-6 (8 ref.)

SURGERY

Successful hand revascularization with urokinase following a crush injury. Wheatley MJ, et al. **Ann Plast Surg** 1997 Jul;39(1):94-6

One-stage immediate reconstruction of partial auricular amputation by dog bite. Giraldo-Ansio F, et al. **Int J Oral Maxillofac Surg** 1997 Aug;26(4):260-2

One-stage triple-flap reconstruction of lip avulsion [letter] Giery RA. **Plast Reconstr Surg** 1996 Nov;98(6):1124

Immediate versus delayed lip reconstruction after dog bite lesions [letter] Horch RE. **Plast Reconstr Surg** 1997 Sep; 100(4):1073

THERAPY

Managing law enforcement (K-9) dog bites in the emergency department. Pineda GV, et al. **Acad Emerg Med** 1996 Apr; 3(4):352-9

Anesthesia for fish envenomation [letter; comment] Bush SP. **Ann Emerg Med** 1997 May;29(5):692-3. Comment on: Ann Emerg Med 1996 Oct;28(4):456-7.

Lionfish envenomation [letter] [see comments] Garyfallou GT, et al. **Ann Emerg Med** 1996 Oct;28(4):456-7. Comment in: Ann Emerg Med 1997 May;29(5):692-3.

Tick-borne diseases in Australia [letter; comment] Pakchung D. **Aust Fam Physician** 1997 Apr;26(4):474. Comment on: Aust Fam Physician 1996 Dec;25(12):1841-5.

Management of bite wounds and infection in primary care. Kelleher AT, et al. **Cleve Clin J Med** 1997 Mar;64(3):137-41 (15 ref.)

Management of bat bites. **Commun Dis Rep CDR Wkly** 1996 Sep 13;6(37):319

Treatment of snake, insect, scorpion, and spider bites in the pediatric emergency department. Holve S. **Curr Opin Pediatr** 1996 Jun;8(3):256-60 (21 ref.)

Rabies vaccine. **Indian Pediatr** 1996 Jan;33(1):77-80

Postexposure rabies prophylaxis in an urban emergency department. Harrigan RA, et al. **J Emerg Med** 1996 May-Jun;14(3):287-92

Marine animal exposures in Florida. Hillman JV. **J Fla Med Assoc** 1996 Mar;83(3):187-91

Venomous insects and reptiles. Normann SA. **J Fla Med Assoc** 1996 Mar;83(3):183-6

Bite wounds. Early treatment and prophylaxis against infectious complications. Presutti RJ. **Postgrad Med** 1997 Apr;101(4):243-4, 246-52, 254 (10 ref.)

Primary closure of contaminated scalp wound [letter] Chitkara N, et al. **Trop Doct** 1997 Oct;27(4):251-2

Management of animal bites and survival of rabid dogs [letter; comment] Lornegan G. **Vaccine** 1997 Jan;15(1):103. Comment on: Vaccine 1995 Jun;13(9):811-5.

[The risk of infection after a tick bite in an endemic area. The experience of the use of an effective protocol on a cohort of Tuscan children] Cristiano R, et al. **Pediatr Med Chir** 1997 May-Jun;19(3):201-3 (Eng. Abstr.) **(Ita)**

[Evaluation of methods of tick removal in human ixodidiasis] Oteo JA, et al. **Rev Clin Esp** 1996 Sep;196(9):584-7 (Eng. Abstr.) **(Spa)**

VETERINARY

The influence of tail biting on performance of fattening pigs. Wallgren P, et al. **Acta Vet Scand** 1996;37(4):453-60

Will breed-specific legislation reduce dog bites? [see comments] Bandow JH. **Can Vet J** 1996 Aug;37(8):478-81 . Comment in: Can Vet J 1996 Dec;37(12):712.

Pro canine breed-specific legislation [letter; comment] Hess G. **Can Vet J** 1996 Dec;37(12):712. Comment on: Can Vet J 1996 Aug;37(8):478-81.

Health status of otters (Lutra lutra) in south-west England based on postmortem findings. Simpson VR. **Vet Rec** 1997 Aug 23;141(8):191-7

A technique for management of bite wounds of the thoracic wall in small dogs. Shahar R, et al. **Vet Surg** 1997 Jan-Feb; 26(1):45-50

BITES, HUMAN

COMPLICATIONS

Transmission of human immunodeficiency virus through saliva after a lip bite [letter] Khajotia RR, et al. **Arch Intern Med** 1997 Sep 8;157(16):1901

Osteomyelitis of the skull vault from a human bite. Phillips NI, et al. **Br J Neurosurg** 1997 Apr;11(2):168-9

A lesson--a biter bit? [letter] Till K. **Br J Neurosurg** 1997 Jun;11(3):266

Severe knee arthritis due to Eikenella corrodens following a human bite. Bonnet M, et al. **Clin Infect Dis** 1997 Jan; 24(1):80-1

HIV transmission by a human bite [news] **Infect Control Hosp Epidemiol** 1996 Oct;17(10):707

Necrotizing fasciitis of the periorbita and forehead. Isenberg JS, et al. **J Oral Maxillofac Surg** 1997 May;55(5):521-3

DIAGNOSIS

Clenched fist injury: a pitfall for patients and surgeons. De Smet L, et al. **Acta Orthop Belg** 1997 Jun;63(2):113-7

The past and present legal weight of bite marks as evidence [see comments] Aksu MN, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):136-40 (37 ref.) . Comment in: Am J Forensic Med Pathol 1996 Dec;17(4):352-4.

Comment on "the past and present legal weight of bite marks as evidence" [letter; comment] Norrlander AL. **Am J Forensic Med Pathol** 1996 Dec;17(4):352-4. Comment on: Am J Forensic Med Pathol 1996 Jun;17(2):136-40.

EPIDEMIOLOGY

Risk of HIV-1 infection after human bites [letter] Tereskerz PM, et al. **Lancet** 1996 Nov 30;348(9040):1512

New York City police officers incidence of transcutaneous exposures. Pagane J, et al. **Occup Med (Oxf)** 1996 Aug; 46(4):285-8

ETIOLOGY

Two faces of nocturnal tongue biting. Vasiknanonte P, et al. **J Med Assoc Thai** 1997 Aug;80(8):500–7

MICROBIOLOGY

In vitro activity of Bay 12–8039, a new 8–methoxyquinolone, compared to the activities of 11 other oral antimicrobial agents against 390 aerobic and anaerobic bacteria isolated from human and animal bite wound skin and soft tissue infections in humans. Goldstein EJ, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1552–7

Severe knee arthritis due to Eikenella corrodens following a human bite. Bonnet M, et al. **Clin Infect Dis** 1997 Jan; 24(1):80–1

PATHOLOGY

The past and present legal weight of bite marks as evidence [see comments] Aksu MN, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):136–40 (37 ref.) . Comment in: Am J Forensic Med Pathol 1996 Dec;17(4):352–4.

PREVENTION & CONTROL

[Evaluation of the bite block wedged between the maxillary and mandibular molars] Katoh H, et al. **Masui** 1996 Dec; 45(12):1529–32 (Eng. Abstr.) **(Jpn)**

SURGERY

Nasal amputation due to human bite: microsurgical replantation. Hussain G, et al. **Aust N Z J Surg** 1997 Jun; 67(6):382–4

The management of human bite injuries of the hand. Kelly IP, et al. **Injury** 1996 Sep;27(7):481–4

A study of primary closure of human bite injuries to the face. Donkor P, et al. **J Oral Maxillofac Surg** 1997 May; 55(5):479–81; discussion 481–2

THERAPY

Management of bite wounds and infection in primary care. Kelleher AT, et al. **Cleve Clin J Med** 1997 Mar;64(3):137–41 (15 ref.)

BITEWING RADIOGRAPHY see **RADIOGRAPHY, BITEWING**

BITHIONOL

THERAPEUTIC USE

Comparative studies on the effect of bithionol, praziquantel and triclabendazole in rabbit's fascioliasis [letter] el–Bahy MM. **J Egypt Soc Parasitol** 1997 Aug;27(2):615–6

BITIS see **VIPERIDAE**

BITTNER VIRUS see **MAMMARY TUMOR VIRUSES, MOUSE**

BIUREAS

PHARMACOLOGY

[Effect of the tranquilizer mebicar on lipid metabolism and lipid peroxidation in a rat hypokinesic model] Zamakova IE, et al. **Biull Eksp Biol Med** 1996 May;121(5):535–7 **(Rus)**

TOXICITY

Study on the developmental toxicity of orally administered isobutylidenediurea in rats. Hellwig J, et al. **Food Chem Toxicol** 1997 Jul;35(7):677–81

BIURET REACTION

METHODS

Assessment of a biuret method without concentration step for total protein determination in cerebrospinal fluid. Cotton F, et al. **Clin Biochem** 1997 Jun;30(4):313–4

BK VIRUS see **POLYOMAVIRUS HOMINIS 1**

BLACK APE see **MACACA**

BLACK FLIES see **SIMULIIDAE**

BLACK PEPPER see **SPICES**

BLACK WIDOW SPIDER

Structural and functional studies of latrodectin from the venom of black widow spider (Latrodectus tredecimguttatus). Grasso A, et al. **Adv Exp Med Biol** 1996; 391:237–43

Neurotoxin from black widow spider venom. Structure and function. Grishin EV. **Adv Exp Med Biol** 1996;391:231–6

Black widow spider case [letter; comment] Robertson WO. **Am J Emerg Med** 1997 Mar;15(2):211. Comment on: Am J Emerg Med 1996 Sep;14(5):469–71.

Images in clinical medicine. Latrodectus mactans. Stack LB. **N Engl J Med** 1997 Jun 5;336(23):1649

The black widow: is she deadly to children? Woestman R, et al. **Pediatr Emerg Care** 1996 Oct;12(5):360–4 (19 ref.)

Probing the structure–function relationship of alpha–latrotoxin–formed channels with antibodies and pronase. Chanturiya AN, et al. **Toxicon** 1996 Oct; 34(10):1157–64

[Latrodectism: a rare cause of rhabdomyolysis (letter)] Fouché R, et al. **Presse Med** 1997 Jun 14;26(20):954 **(Fre)**

ANATOMY & HISTOLOGY

Black widow spider [letter] Matthews ET. **N Engl J Med** 1997 Oct 23;337(17):1248

CHEMISTRY

[Isolation and partial structural characteristics of major toxic components of Latrodectus pallidus venom] Charakha AR, et al. **Bioorg Khim** 1997 Mar;23(3):163–7 (Eng. Abstr.) **(Rus)**

BLACKS

see related

NEGROID RACE

Adaptation of African–American cultural and food preferences in end–stage renal disease diets. Patel C, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):30–9 (14 ref.)

African–Americans on maintenance dialysis: a review of racial differences in incidence, treatment, and survival. Price DA, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):3–12 (42 ref.)

Evaluation of an HIV risk reduction intervention among African–American homosexual and bisexual men. Peterson JL, et al. **AIDS** 1996 Mar;10(3):319–25

Testing and treatment behaviour of HIV–infected women: white, African–American, Puerto Rican comparisons. Siegel K, et al. **AIDS Care** 1997 Jun;9(3):297–309

A comparison of children affected by prenatal alcohol exposure and attention deficit, hyperactivity disorder. Coles CD, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):150–61

Special health considerations in African–American elders. Mouton CP. **Am Fam Physician** 1997 Mar;55(4):1243–53 (38 ref.)

Gender, racial, and geographic differences in the performance of cardiac diagnostic and therapeutic procedures for hospitalized acute myocardial infarction in four states. Weitzman S, et al. **Am J Cardiol** 1997 Mar 15;79(6):722–6

Resting metabolic rate in obese, premenopausal black women. Albu J, et al. **Am J Clin Nutr** 1997 Sep;66(3):531–8

Cultural specificity of support sources, correlates and contexts: three studies of African–American and caucasian youth. Maton KI, et al. **Am J Community Psychol** 1996 Aug;24(4):551–87

Typical and atypical clinical signs and symptoms of myocardial infarction and delayed seeking of professional care among blacks. Lee HO. **Am J Crit Care** 1997 Jan; 6(1):7–13; quiz 14–5 (56 ref.)

Low birth weight and blood pressure at age 7–11 years in a biracial sample. Donker GA, et al. **Am J Epidemiol** 1997 Mar 1;145(5):387–97

Low birth weight and serum lipid concentrations at age 7–11 years in a biracial sample. Donker GA, et al. **Am J Epidemiol** 1997 Mar 1;145(5):398–407

Black–white differences in risk of becoming disabled and recovering from disability in old age: a longitudinal analysis of two EPESE populations. Mendes de Leon CF, et al. **Am J Epidemiol** 1997 Mar 15;145(6):488–97

Smoking and fatal prostate cancer in a large cohort of adult men. Rodriguez C, et al. **Am J Epidemiol** 1997 Mar 1; 145(5):466–75

When the patient is a racist. Miles A, et al. **Am J Nurs** 1997 Aug;97(8):72

Dietary factors and cancers of breast, endometrium, and ovary: strategies for modifying fat intake in African American women. Hargreaves MK, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S255–64 (134 ref.)

Vaginal douching and the risk of ectopic pregnancy among black women. Kendrick JS, et al. **Am J Obstet Gynecol** 1997 May;176(5):991–7

Manual dexterity of South African children growing in contrasting socioeconomic conditions. Verdonck MC, et al. **Am J Occup Ther** 1997 Apr;51(4):303–6

The occupational health status of African–American women health care workers. Arnold CW. **Am J Prev Med** 1996 Sep–Oct;12(5):311–5

The importance of age as a context for understanding African–American women's mammography screening behavior. Danigelis NL, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):358–66

African–American women's attitudes and expectations of menopause. Holmes–Rovner M, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):420–3

Determinants of functional health of low–income black women with osteoarthritis. Martin JC. **Am J Prev Med** 1996 Sep–Oct;12(5):430–6

Supporting Adolescents with Guidance and Employment (SAGE). Ringwalt CL, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):31–8

Correlates of health promotion behaviors in low–income Black women and Latinas. Sanders–Phillips K. **Am J Prev Med** 1996 Nov–Dec;12(6):450–8

Effect of a cancer screening intervention conducted by lay health workers among inner–city women. Sung JF, et al. **Am J Prev Med** 1997 Jan–Feb;13(1):51–7

Differences in patterns of tobacco use in Vietnamese, African–American, Hispanic, and Caucasian adolescents in Worcester, Massachusetts. Wiecha JM. **Am J Prev Med** 1996 Jan–Feb;12(1):29–37

Job strain and blood pressure in African Americans: the Pitt County Study. Curtis AB, et al. **Am J Public Health** 1997 Aug;87(8):1297–302

Sudden cardiac death in Hispanic Americans and African Americans. Gillum RF. **Am J Public Health** 1997 Sep; 87(9):1461–6

Racial discrimination and blood pressure: the CARDIA Study of young black and white adults. Krieger N, et al. **Am J Public Health** 1996 Oct;86(10):1370–8

Seven–year trends in body weight and associations with lifestyle and behavioral characteristics in black and white young adults: the CARDIA study. Lewis CE, et al. **Am J Public Health** 1997 Apr;87(4):635–42

The feasibility of a street–intercept survey method in an African–American community. Miller KW, et al. **Am J Public Health** 1997 Apr;87(4):655–8

Cigarette sales to African–American and white minors in low–income areas of Baltimore. Voorhees CC, et al. **Am J Public Health** 1997 Apr;87(4):652–4

The validity of self–reports of smoking: analyses by race/ethnicity in a school sample of urban adolescents. Wills TA, et al. **Am J Public Health** 1997 Jan;87(1):56–61

The effects of an abusive primary partner on the condom use and sexual negotiation practices of African–American women. Wingood GM, et al. **Am J Public Health** 1997 Jun;87(6):1016–8

Social class and race disparities in premature stroke mortality among men in North Carolina. Casper ML, et al. **Ann Epidemiol** 1997 Feb;7(2):146–53

Response error in self–reported current smoking frequency by black and white established smokers. Clark PI, et al. **Ann Epidemiol** 1996 Nov;6(6):483–9

Relative weight and mortality in U.S. blacks and whites: findings from representative national population samples. Durazo–Arvizu R, et al. **Ann Epidemiol** 1997 Aug; 7(6):383–95

Trends in cigarette smoking among children in a southern community, 1976–1994: the Bogalusa Heart Study [see comments] Greenlund KJ, et al. **Ann Epidemiol** 1996 Nov; 6(6):476–82. Comment in: Ann Epidemiol 1996 Nov;6(6):474–5.

Smoking among black and white youth: differences that matter [editorial; comment] Novotny TE. **Ann Epidemiol** 1996 Nov;6(6):474–5. Comment on: Ann Epidemiol 1996 Nov;6(6):476–82.

Food preferences and eating attitudes in three generations of black and white women. Dacosta KO, et al. **Appetite** 1996 Oct;27(2):183–91

Systemic lupus erythematosus in relation to environmental pollution: an investigation in an African–American community in North Georgia. Kardestuncer T, et al. **Arch Environ Health** 1997 Mar–Apr;52(2):85–90

Relationship of education to the racial gap in neonatal and postneonatal mortality. Din–Dzietham R, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):787–92

Evolution of risk behaviors over 2 years among a cohort of urban African American adolescents. Stanton B, et al. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):398–406

Factors affecting renal allograft survival in African Americans. Gaston RS. **Blood Purif** 1996;14(4):327–33 (42 ref.)

Racial differences in incidence, outcome, and quality of life for African–Americans on hemodialysis. Owen WF Jr. **Blood Purif** 1996;14(4):278–85

Failed intubation drill [letter] Dean VS, et al. **Br J Anaesth** 1997 Feb;78(2):231

Ageing in black and ethnic minorities: a challenge to service provision. Askham J. **Br J Hosp Med** 1996 Dec 11–1997 Jan 14;56(11):602–4 (14 ref.)

Breast cancer in African American women: epidemiology and tumor biology. Trock BJ. **Breast Cancer Res Treat** 1996;40(1):11–24 (78 ref.)

Health information–seeking behavior and older African American women. Gollop CJ. **Bull Med Libr Assoc** 1997 Apr;85(2):141–6

Similarity of risk and protective behaviors among African–American pre– and early adolescent members of naturally occurring friendship groups. Fang X, et al. **Bull N Y Acad Med** 1996 Winter;73(2):285–300

Drinking practices and risk of squamous–cell esophageal cancer among Black and White men in the United States. Brown LM, et al. **Cancer Causes Control** 1997 Jul; 8(4):605–9

Multiple myeloma among Blacks and Whites in the United States: role of cigarettes and alcoholic beverages. Brown LM, et al. **Cancer Causes Control** 1997 Jul;8(4):610–4

Histologically diagnosed benign neoplasms in black children and adolescents. Lancaster EJ, et al. **Cent Afr J Med** 1996 Dec;42(12):354–7

Effects of age and race on the odds of adoption versus remaining in long–term out–of–home care. Barth RP. **Child Welfare** 1997 Mar–Apr;76(2):285–308

Child protection risk assessment and African American

children: cultural ramifications for families and communities. Brissett-Chapman S. **Child Welfare** 1997 Jan-Feb;76(1):45-63

An out-of-home care system in crisis: implications for African American children in the child welfare system. Brown AW, et al. **Child Welfare** 1997 Jan-Feb;76(1):65-83 (49 ref.)

Race and child welfare services: past research and future directions. Courtney ME, et al. **Child Welfare** 1996 Mar-Apr;75(2):99-137 (68 ref.)

An Afrocentric program for African American males in the juvenile justice system. Harvey AR, et al. **Child Welfare** 1997 Jan-Feb;76(1):197-211

African American children in the modern child welfare system: a legacy of the Flemming Rule. Lawrence-Webb C. **Child Welfare** 1997 Jan-Feb;76(1):9-30 (45 ref.)

Black Americans' and White Americans' views of the etiology and treatment of mental health problems. Millet PE, et al. **Community Ment Health J** 1996 Jun;32(3):235-42

The management of prostate cancer in blacks: the physician's dilemma intensified. Haynes MA. **Compr Ther** 1996 Jul; 22(7):449-53 (11 ref.)

Effect of blood pressure control and antihypertensive drug regimen on quality of life: the African American Study of Kidney Disease and Hypertension (AASK) Pilot Study. Kusek JW, et al. **Control Clin Trials** 1996 Aug;17(4 Suppl):40S-46S

Participant satisfaction in the African American Study of Kidney Disease and Hypertension (AASK) Pilot Study. Kusek JW, et al. **Control Clin Trials** 1996 Aug;17(4 Suppl):47S-54S

Appointment attendance, pill counts, and achievement of goal blood pressure in the African American Study of Kidney Disease and Hypertension Pilot Study. Lee JY, et al. **Control Clin Trials** 1996 Aug;17(4 Suppl):34S-39S

Recruitment experience in the African American Study of Kidney Disease and Hypertension (AASK) Pilot Study. Whelton PK, et al. **Control Clin Trials** 1996 Aug;17(4 Suppl):17S-33S

Design and baseline characteristics of participants in the African American Study of Kidney Disease and Hypertension (AASK) Pilot Study. Wright JT Jr, et al. **Control Clin Trials** 1996 Aug;17(4 Suppl):3S-16S

Compromised birth outcomes and infant mortality among racial and ethnic groups. Frisbie WP, et al. **Demography** 1996 Nov;33(4):469-81

Smoking habits of black South African patients with diabetes mellitus. Gill GV, et al. **Diabet Med** 1996 Nov;13(11):996-9

Insulin sensitivity and abdominal obesity in African-American, Hispanic, and non-Hispanic white men and women. The Insulin Resistance and Atherosclerosis Study. Karter AJ, et al. **Diabetes** 1996 Nov;45(11):1547-55

Ambulatory medical care for non-Hispanic whites, African-Americans, and Mexican-Americans with NIDDM in the U.S. Cowie CC, et al. **Diabetes Care** 1997 Feb;20(2):142-7

The impact of socioeconomic status on cardiovascular risk factors in African-Americans at high risk for type II diabetes. Implications for syndrome X. Gaillard TR, et al. **Diabetes Care** 1997 May;20(5):745-52

NIDDM in African-Americans and black South Africans: many similarities but some important differences [letter] Joffe BI, et al. **Diabetes Care** 1996 Dec;19(12):1451-2

Diabetes in urban African-Americans. IX. Provider adherence to management protocols. el-Kebbi IM, et al. **Diabetes Care** 1997 May;20(5):698-703

Diabetic ketoacidosis among obese African-American adolescents with NIDDM. Pinhas-Hamiel O, et al. **Diabetes Care** 1997 Apr;20(4):484-6

Lipoprotein (a) levels in African-Americans with NIDDM. Scheer WD, et al. **Diabetes Care** 1996 Oct;19(10):1129-34

A twofold excess mortality among black compared with white IDDM patients in Allegheny county, Pennsylvania. Pittsburgh DERI Mortality Study Group. Tull ES, et al. **Diabetes Care** 1996 Dec;19(12):1344-7

Sulfonylurea treatment prevents recurrence of hyperglycemia in obese African-American patients with a history of hyperglycemic crises. Umpierrez GE, et al. **Diabetes Care** 1997 Apr;20(4):479-83

Comparison of laboratory test frequency and test results between African-Americans and Caucasians with diabetes: opportunity for improvement. Findings from a large urban health maintenance organization. Wisdom K, et al. **Diabetes Care** 1997 Jun;20(6):971-7

Hypertension in the black community of the Cape Peninsula, South Africa. Steyn K, et al. **East Afr Med J** 1996 Nov; 73(11):758-63

Mortality effects of community socioeconomic status. Anderson RT, et al. **Epidemiology** 1997 Jan;8(1):42-7

Racial differences in the prevalence of small-for-dates infants among college-educated women. Collins JW Jr, et al. **Epidemiology** 1997 May;8(3):315-7

12th International Interdisciplinary Conference on Hypertension in Blacks. London, England, July 20-23, 1997. Abstracts. **Ethn Dis** 1997;7(1 Suppl):S1-68

The development and evaluation of the hypertension temporal orientation (HTO) scale. Brown CM, et al. **Ethn Dis** 1997 Winter;7(1):41-54

Recruitment and enrollment for Project HeartBeat! Achieving the goals of minority inclusion. Grunbaum JA, et al. **Ethn Dis** 1996 Autumn;6(3-4):203-12

Hypertension and heart disease in women: the treatment of obesity as a disease. Harp JB. **Ethn Dis** 1996 Autumn; 6(3-4):315-20

Toward a conceptualization of race in epidemiologic research. Herman AA. **Ethn Dis** 1996 Winter-Spring; 6(1-2):7-20 (64 ref.)

Designing and evaluating strategies to recruit African Americans for AIDS/HIV interventions: targeting the African-American family. Icard LD, et al. **Ethn Dis** 1996 Autumn;6(3-4):301-10

Racism and the physical and mental health status of African Americans: a thirteen year national panel study. Jackson JS, et al. **Ethn Dis** 1996 Winter-Spring;6(1-2):132-47

Can hypertension be prevented? Applications of risk modifications in black populations: U.S. populations. Kumanyika SK. **Ethn Dis** 1997 Winter;7(1):72-7

Are black Americans entitled to equal health care? a new research paradigm. Menefee LT. **Ethn Dis** 1996 Winter-Spring;6(1-2):56-68 (47 ref.)

Target marketing of tobacco and alcohol-related products to ethnic minority groups in the United States. Moore DJ, et al. **Ethn Dis** 1996 Winter-Spring;6(1-2):83-98 (56 ref.)

Racism and perinatal addiction. Neuspiel DR. **Ethn Dis** 1996 Winter-Spring;6(1-2):47-55 (45 ref.)

Segregation, discrimination and mortality in U.S. blacks. Polednak AP. **Ethn Dis** 1996 Winter-Spring;6(1-2):99-108 (67 ref.)

Changes in cardiovascular disease knowledge and behavior in a low-education population of African-American and white adults. Smith NL, et al. **Ethn Dis** 1996 Autumn; 6(3-4):244-54

Is there a difference in hypertensive claim rates among Medicaid recipients? Sung JF, et al. **Ethn Dis** 1997 Winter; 7(1):19-26

Hypertension and heart disease in women. Yunis C. **Ethn Dis** 1996 Autumn;6(3-4):311-4

A study of the relationship of storytelling ability and reading comprehension in fourth and sixth grade African-American children. Klecan-Aker JS, et al. **Eur J Disord Commun** 1997;32(1):109-25

The relative roles of hepatitis B and C viruses in the etiology of hepatocellular carcinoma in southern African blacks. Kew MC, et al. **Gastroenterology** 1997 Jan;112(1):184-7

Dementia in urban black outpatients: initial experience at the Emory satellite clinics. Auchus AP. **Gerontologist** 1997 Feb;37(1):25-9

Age norms, the timing of family role transitions, and intergenerational caregiving among aging African American women. Burton LM. **Gerontologist** 1996 Apr; 36(2):199-208

Lay health advisors: a strategy for getting the word out about breast cancer. Earp JA, et al. **Health Educ Behav** 1997 Aug; 24(4):432-51

Recruitment and training issues from selected lay health advisor programs among African Americans: a 20-year perspective. Jackson EJ, et al. **Health Educ Behav** 1997 Aug;24(4):418-31 (47 ref.)

Menthol cigarette use in African Americans. Richardson T. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):22H-22I

Population-based, genetically informative sample for studies of physical frailty and aging: black elderly twin study. Miles TP. **Hum Biol** 1997 Feb;69(1):107-20

A high-frequency polymorphism of NADH-cytochrome b5 reductase in African-Americans. Jenkins MM, et al. **Hum Genet** 1997 Feb;99(2):248-50

Glycogenosis type II: a juvenile-specific mutation with an unusual splicing pattern and a shared mutation in African Americans. Adams EM, et al. **Hum Mutat** 1997; 10(2):128-34

Gastric carcinoma in African Americans: a 10 year single center analysis. Vaquerano J, et al. **In Vivo** 1996 Mar-Apr; 10(2):233-5

Racial differences in the impact of smoking-attributable disease on health care costs in Indiana. Emont S. **Indiana Med** 1996 Mar-Apr;89(2):161-4

Self-reported sleep disturbance among African-American elderly: the effects of depression, health status, exercise, and social support. Bazargan M. **Int J Aging Hum Dev** 1996;42(2):143-60

Black grandparents: curriculum development. Strom R, et al. **Int J Aging Hum Dev** 1996;43(2):119-34

Stroke not a disease of the elderly only [news] **Int J Fertil Womens Med** 1997 Jan-Feb;42(1):14

Familial resemblance for anthropometric measurements and relative fat distribution among African Americans. Rotimi C, et al. **Int J Obes Relat Metab Disord** 1995 Dec; 19(12):875-80

A longitudinal study of the dietary practices of black and white girls 9 and 10 years old at enrollment: the NHLBI Growth and Health Study. McNutt SW, et al. **J Adolesc Health** 1997 Jan;20(1):27-37

Social factors predicting postpartum choice of Norplant among African-American and non-Hispanic white adolescents. Mears CJ, et al. **J Adolesc Health** 1997 Sep; 21(3):167-71

Patterns of smoking among inner-city teenagers: smoking has a pediatric age of onset. Najem GR, et al. **J Adolesc Health** 1997 Mar;20(3):226-31

Coronary revascularization and cardiac catheterization in the United States: trends in racial differences. Gillum RF, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1557-62

Long-term survival of African Americans in the Coronary Artery Surgery Study (CASS). Taylor HA Jr, et al. **J Am Coll Cardiol** 1997 Feb;29(2):358-64

Cardiovascular disease risk factors in black college students. Kelley GA, et al. **J Am Coll Health** 1997 Jan;45(4):165-9

Assessing food purchase behavior among low-income black and Hispanic clients using a self-reported shelf inventory. Beto JA, et al. **J Am Diet Assoc** 1997 Jan;97(1):69-70

Assessing fruit and vegetable consumption in a 5 a day study targeting rural blacks: the issue of portion size. Kramish Campbell M, et al. **J Am Diet Assoc** 1996 Oct;96(10):1040-2

The relationship between alcohol consumption, cognitive performance, and daily functioning in an urban sample of older black Americans. Hendrie HC, et al. **J Am Geriatr Soc** 1996 Oct;44(10):1158-65

Inner-city older blacks have high levels of functional disability. Miller DK, et al. **J Am Geriatr Soc** 1996 Oct; 44(10):1166-73

A study of racial differences in age at onset and progression of presbyopia. Hunter H Jr, et al. **J Am Optom Assoc** 1997 Mar;68(3):171-7

Are we missing an epidemic of HIV-associated nephropathy? Winston JA, et al. **J Am Soc Nephrol** 1996 Jan;7(1):1-7 (57 ref.)

Essential hypertension: racial/ethnic differences in pathophysiology. Douglas JG, et al. **J Assoc Acad Minor Phys** 1996;7(1):16-21 (88 ref.)

Attitudes and practices of African-American physicians toward smoking interventions: an earlier study. King G. **J Assoc Acad Minor Phys** 1997;8(2):22-8

Acculturation and cigarette smoking among African American adults. Klonoff EA, et al. **J Behav Med** 1996 Oct;19(5):501-14

Characteristics of African-Americans with multiple risk factors associated with HIV/AIDS. Lollis CM, et al. **J Behav Med** 1996 Feb;19(1):55-71

Increasing mammography and breast self-examination in African American women using the Witness Project model. Erwin DO, et al. **J Cancer Educ** 1996 Winter;11(4):210-5

Breast cancer screening: racial/ethnic differences in behaviors and beliefs. Friedman LC, et al. **J Cancer Educ** 1995 Winter;10(4):213-6

The readability levels of cancer-prevention materials targeting African Americans. Guidry JJ, et al. **J Cancer Educ** 1997 Summer;12(2):108-13

Use of a photoessay to teach low-income African American women about mammography. Paskett ED, et al. **J Cancer Educ** 1996 Winter;11(4):216-20

Development and implementation of outreach strategies for breast and cervical cancer prevention among African American women. FoCaS Project. Forsyth County Cancer Screening. Tatum C, et al. **J Cancer Educ** 1997 Spring; 12(1):43-50

Smoking and socioeconomic status in a population-based inner city sample of African-Americans, Latinos and whites. Siegel D, et al. **J Cardiovasc Risk** 1996 Jun; 3(3):295-300

The influence of psychological and social factors on accuracy of self-reported blood pressure. Horwitz SM, et al. **J Clin Epidemiol** 1997 Apr;50(4):411-8

Race and clinical outcome in breast cancer in a series with long-term follow-up evaluation. Heimann R, et al. **J Clin Oncol** 1997 Jun;15(6):2329-37

Speaking fundamental frequency characteristics of 8- through 10-year-old white- and African-American boys. Morris R. **J Commun Disord** 1997 Mar-Apr;30(2):101-14; quiz 115-6

Colorectal screening patterns and perceptions of risk among African-American users of a community health center. Lipkus IM, et al. **J Community Health** 1996 Dec; 21(6):409-27

From National Negro Health Week to National Public Health Week. Pollitt PA. **J Community Health** 1996 Dec; 21(6):401-7

Infant feeding practices of low-income African American women in a central city community. Underwood S, et al. **J Community Health Nurs** 1997;14(3):189-205

Race and sex differences in the prediction of drug use. Gottfredson DC, et al. **J Consult Clin Psychol** 1996 Apr; 64(2):305-13

Predictors of risk for different stages of adolescent smoking in a biracial sample. Robinson LA, et al. **J Consult Clin Psychol** 1997 Aug;65(4):653-62

A test of magnitude: does the strength of predictors explain differences in drug use among adolescents? Graham N. **J Drug Educ** 1997;27(1):83-104

Blood pressure response to orthostatic and mental challenge in African-American women taking oral contraceptives. McDermott DS, et al. **J Fam Pract** 1997 Sep;45(3):237-42

African American women. Disparities in health care. Gary F, et al. **J Fla Med Assoc** 1996 Aug-Sep;83(7):489-93 (26 ref.)

Identification of Euro-Americans, Afro-Americans, and Amerindians from palatal dimensions. Byers SN, et al. **J Forensic Sci** 1997 Jan;42(1):3-9

Racial differences in the medical treatment of elderly Medicare patients with acute myocardial infarction. Allison JJ, et al. **J Gen Intern Med** 1996 Dec;11(12):736-43

Identification of patient attitudes and preferences regarding treatment of depression. Cooper-Patrick L, et al. **J Gen Intern Med** 1997 Jul;12(7):431-8

What about men these days? The invisibility of gender [letter; comment] Korin DE, et al. **J Gen Intern Med** 1996 Jun; 11(6):381; discussion 382. Comment on: J Gen Intern Med

1996 Feb;1192):77–82.
Ovarian aging and hormone replacement therapy. Hormonal levels, symptoms, and attitudes of African–American and white women. Pham KT, et al. **J Gen Intern Med** 1997 Apr;12(4):230–6
Race, resource use, and survival in seriously ill hospitalized adults. The SUPPORT Investigators. Phillips RS, et al. **J Gen Intern Med** 1996 Jul;11(7):387–96
"The sucker notion" [letter; comment] Poses RM. **J Gen Intern Med** 1996 Jun;11(6):381–2. Comment on: J Gen Intern Med 1996 Feb;11(2):77–82.
As through a glass darkly: the case for qualitative research on violence [editorial; comment] Prothrow–Smith D. **J Gen Intern Med** 1996 Feb;11(2):128–9. Comment on: J Gen Intern Med 1996 Feb;11(2):77–82.
The experience of violent injury for young African–American men: the meaning of being a "sucker" [see comments] Rich JA, et al. **J Gen Intern Med** 1996 Feb;11(2):77–82. Comment in: J Gen Intern Med 1996 Feb;11(2):128–9. Comment in: J Gen Intern Med 1996 Jun;11(6):381; discussion 382.
Prevalence and impact of risk factors for lower body difficulty among Mexican Americans, African Americans, and whites. Clark DO, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar;52(2):M97–105
Patterns of in–home care among elderly black and white Americans. Norgard TM, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:93–101
The structure of health status among Hispanic, African American, and white older adults. Stump TE, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:49–60
Issues of the Heart: Prevention, Management and Control of Cardiovascular Risk Factors in African Americans. Proceedings of a conference. Nashville, Tennessee, October 1996. **J Health Care Poor Underserved** 1997 Aug; 8(3):247–387
Cardiovascular risk factor screening and intervention in African American adults. Anderson JT, et al. **J Health Care Poor Underserved** 1997 Aug;8(3):322–44
The political agenda of health care for African Americans. Brooks TJ 3rd. **J Health Care Poor Underserved** 1997 Aug; 8(3):377–82; discussion 382–3
Strategies for enhancing research and research training programs for African Americans: viewing barriers as opportunities. Curry C. **J Health Care Poor Underserved** 1997 Aug;8(3):318–21
Lessons learned from the Healthy Heart Community Prevention Project in reaching the African American population. Ferdinand KC. **J Health Care Poor Underserved** 1997 Aug;8(3):366–71; discussion 371–2
Research in coronary heart disease in blacks: issues and challenges. Francis CK. **J Health Care Poor Underserved** 1997 Aug;8(3):250–69 (42 ref.)
Setting the agenda for research and education on coronary heart disease. Fulwood R. **J Health Care Poor Underserved** 1997 Aug;8(3):247–9
The impact of obesity on hypertension management in African Americans. Kumanyika SK. **J Health Care Poor Underserved** 1997 Aug;8(3):352–64; discussion 364–5 (31 ref.)
Cardiovascular implications of smoking: the surgeon general's point of view. Manley AF. **J Health Care Poor Underserved** 1997 Aug;8(3):303–10 (15 ref.)
Diagnosis and therapeutic intervention in the management of coronary artery disease in African Americans. Potts JL. **J Health Care Poor Underserved** 1997 Aug;8(3):285–91
New insights and interventions: churches uniting to reach the African American community with health information. Sanders EC 2nd. **J Health Care Poor Underserved** 1997 Aug;8(3):373–5; discussion 375–6
Cardiovascular disease in African American and white physicians: the Meharry Cohort and Meharry–Hopkins Cohort Studies. Thomas J, et al. **J Health Care Poor Underserved** 1997 Aug;8(3):270–83; discussion 284
Double jeopardy to health hypothesis for African Americans: analysis and critique. Ferraro KF, et al. **J Health Soc Behav** 1996 Mar;37(1):27–43
Religion and subjective health among black and white elders. Musick MA. **J Health Soc Behav** 1996 Sep;37(3):221–37 (60 ref.)
Risk factors leading to coronary heart disease among the black, Indian and white peoples of Durban. Seedat YK, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S93–4
Early detection of prostate cancer in African–American men with an increased familial risk of disease. Sartor O. **J La State Med Soc** 1996 Apr;148(4):179–85
Cerebrovascular disease in the Afro–American population. Weisberg LA. **J La State Med Soc** 1996 Nov;148(11):463–6 (15 ref.)
Practice variations in treating urban minority asthmatics in Chicago. McDermott M, et al. **J Med Syst** 1996 Oct; 20(5):255–66
Panel grapples with the legacy of "race medicine" in research [news] Reynolds T. **J Natl Cancer Inst** 1997 Jun 4; 89(11):758–61
African–American physicians and smoking cessation counseling. Berman BA, et al. **J Natl Med Assoc** 1997 Aug; 89(8):534–42
Alcoholism and African–American women: a medical sociocultural perspective. Carter JH, et al. **J Natl Med Assoc** 1996 Feb;88(2):81–6
Recruitment strategies for black women at risk for noninsulin–dependent diabetes mellitus into exercise protocols: a qualitative assessment. Carter–Nolan PL, et al. **J Natl Med Assoc** 1996 Sep;88(9):558–62
Sarcoidosis presenting with prolonged fever in a patient with sickle cell anemia. Chan ED, et al. **J Natl Med Assoc** 1995 Nov;87(11):826–8
A comparison of US–born African–American and African–Caribbean psychiatric outpatients. Cohen CI, et al. **J Natl Med Assoc** 1997 Feb;89(2):117–23
What explains black–white differences in survival in idiopathic dilated cardiomyopathy? The Washington, DC, Dilated Cardiomyopathy Study. Coughlin SS, et al. **J Natl Med Assoc** 1997 Apr;89(4):277–82
African–American myths and health care: the sociocultural theory [editorial] Davis IJ, et al. **J Natl Med Assoc** 1995 Nov;87(11):791–4
Teen sex, AIDS, and contraception: part two [editorial] Dawson G. **J Natl Med Assoc** 1996 Feb;88(2):77–80
The African–American male: brief insights on health, drugs, and incarceration––Part 1 [editorial] Dawson G. **J Natl Med Assoc** 1997 Sep;89(9):580–4
Auxiliary to the National Medical Association: its commitment to the National Medical Association [editorial] Dunmore GP. **J Natl Med Assoc** 1997 Jun;89(6):377
Hyperpigmentation associated with selenium sulfide lotion [letter] Gillum RF. **J Natl Med Assoc** 1996 Sep;88(9):551 (4 ref.)
Establishing a community network for recruitment of African Americans into a clinical trial. The African–American antiplatelet stroke Prevention Study (AAASPS) experience [editorial] Gorelick PB, et al. **J Natl Med Assoc** 1996 Nov; 88(11):701–4
Why African Americans may not be participating in clinical trials. Harris Y, et al. **J Natl Med Assoc** 1996 Oct; 88(10):630–4 (19 ref.)
Total joint arthroplasty in a predominantly African–American population, part one: knee arthroplasty. Horton RM, et al. **J Natl Med Assoc** 1996 Mar;88(3):153–7
Radical prostatectomy: lower rates among African–American men. Imperato PJ, et al. **J Natl Med Assoc** 1996 Sep; 88(9):589–94
An evaluation of initiatives to improve family planning use by African–American adolescents. Kissinger P, et al. **J Natl Med Assoc** 1997 Feb;89(2):110–4
Hypertension and obesity in African–American patients undergoing surgery. Lord CO. **J Natl Med Assoc** 1997 Aug; 89(8):512–6
National Medical Association/National Institutes of Health Workshop on Violence and the Conduct of Research. Workgroup Proceedings, June 1–2, 1994. Martinez RA, et al. **J Natl Med Assoc** 1995 Nov;87(11):797–802
Visual acuity in preschool children: the Chapel Hill–Durham Day–Care Vision Study. Merritt JC, et al. **J Natl Med Assoc** 1996 Nov;88(11):709–12
The National Medical Association and the Black press: a critical partnership for the promotion of excellent health care for all African Americans. Morgan RC Jr. **J Natl Med Assoc** 1997 Apr;89(4):230–2
Race and hospital discharge against medical advice. Moy E, et al. **J Natl Med Assoc** 1996 Oct;88(10):658–60
Factors associated with elective Norplant removal in black and white women. Opara JU, et al. **J Natl Med Assoc** 1997 Apr;89(4):237–40
African–American mothers' perceptions of cholesterol and its effects on their children. Price JH, et al. **J Natl Med Assoc** 1996 Mar;88(3):145–50
A new antihypertensive strategy for black patients: low–dose multimechanism therapy. Saunders E, et al. **J Natl Med Assoc** 1996 Mar;88(3):171–5
Health–care reform and its impact on African–American surgical specialists. Smith EB. **J Natl Med Assoc** 1996 Mar; 88(3):161–8
Economic issues [letter; comment] Smith EB. **J Natl Med Assoc** 1996 Feb;88(2):69. Comment on: J Natl Med Assoc 1995 Jan;87(1):51–5.
Race, health, & imagery: viewpoints on Chicago Hope, ER, and Society [letter] Spigner C. **J Natl Med Assoc** 1995 Nov;87(11):785;794
Hyperinsulinemia and acanthosis Nigricans in African Americans. Stuart CA, et al. **J Natl Med Assoc** 1997 Aug; 89(8):523–7
A comparison of AIDS–related sexual risk behaviors among African–American college students. Taylor SE, et al. **J Natl Med Assoc** 1997 Jun;89(6):397–403
African–American physicians [letter] Todd JS. **J Natl Med Assoc** 1996 Feb;88(2):69, 86, 93
Results of a study to correlate serum prostate specific antigen and reproductive hormone levels in patients with localized prostate cancer. Vijayakumar S, et al. **J Natl Med Assoc** 1995 Nov;87(11):813–9
Evaluation of a supplementary retention program for African–American baccalaureate nursing students. Hesser A, et al. **J Nurs Educ** 1996 Oct;35(7):304–9
Factors associated with inadequate prenatal care during the second pregnancies among African–American women. McDermott JM, et al. **J Nurse Midwifery** 1996 Sep–Oct; 41(5):368–76
Rethinking race and attrition in nursing programs: a hermeneutic inquiry. Jordan JD. **J Prof Nurs** 1996 Nov–Dec;12(6):382–90
Of mint juleps and bullies––fear at the heart of cultural change. Burckhalter TS. **J Psychosoc Nurs Ment Health Serv** 1996 Feb;34(2):46–7
Content analysis of coverage of alcohol control policy issues in black–oriented and mainstream newspapers in the U.S. Jones–Webb R, et al. **J Public Health Policy** 1997; 18(1):49–66
Health/ill–health transition in less privileged populations: what does the future hold? Walker AR, et al. **J R Coll Physicians Lond** 1997 Jul–Aug;31(4):392–5 (61 ref.)
A culturally appropriate cancer education program for African–American adolescents in an urban middle school. Barg FK, et al. **J Sch Health** 1996 Feb;66(2):50–4
Breastfeeding among black mothers: evidence supporting the need for prenatal intervention. Timbo B, et al. **J Soc Pediatr Nurs** 1996 Apr–Jun;1(1):35–40
Speaking fundamental frequency characteristics of white, African American, and Hispanic kindergartners. Awan SN, et al. **J Speech Hear Res** 1996 Jun;39(3):573–7
Postmenopausal estrogen use among African American and white patients at an urban clinic. Jahnige K, et al. **J Womens Health** 1997 Feb;6(1):93–101
Psychological and social factors associated with histories of risk for human immunodeficiency virus infection among African–American inner–city women. Kalichman SC, et al. **J Womens Health** 1997 Apr;6(2):209–17
Racial variation in predicted and observed in–hospital death. A regional analysis. Gordon HS, et al. **JAMA** 1996 Nov 27;276(20):1639–44
End–stage renal disease in African–American and white men. 16–year MRFIT findings. Klag MJ, et al. **JAMA** 1997 Apr 23–30;277(16):1293–8
Ethnic differences in the clinical expression of systemic lupus erythematosus: a comparative study between African–Americans and Latin Americans. Molina JF, et al. **Lupus** 1997;6(1):63–7
Prevention and treatment of HIV infections in minorities in the US military: a review of military research. Brown AE, et al. **Mil Med** 1996 Feb;161(2):123–7
Attitudes of Army nurses toward African American and Hispanic patients. Joseph HJ. **Mil Med** 1997 Feb; 162(2):96–100
A survey of use of hormone/placenta–containing hair preparations by parents and/or children attending pediatric clinics. Tiwary CM. **Mil Med** 1997 Apr;162(4):252–6
Factors associated with self–perceived excellent and very good health among Blacks––Kansas, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 25;45(42):906–11
Alzheimer disease. Outreach to the African American community. Ford A. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):121–4
The art and science of the psychopharmacotherapy of African Americans. Lawson WB. **Mt Sinai J Med** 1996 Oct–Nov;63(5–6):301–5 (52 ref.)
Asthma: The inner–city problem in New Jersey. Bielory L. **N J Med** 1996 Mar;93(3):176–9
Prenatal weight gain patterns and birth weight among nonobese black and white women. Hickey CA, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):490–6
Prostate cancer and African–American men. Powell IJ. **Oncology (Huntingt)** 1997 May;11(5):599–605; discussion 606–15 passim (35 ref.)
Biometry and primary angle–closure glaucoma among chinese, white, and black populations. Congdon NG, et al. **Ophthalmology** 1997 Sep;104(9):1489–95
Reasons for delay in breast cancer diagnosis. Caplan LS, et al. **Prev Med** 1996 Mar–Apr;25(2):218–24
Use of screening mammography and clinical breast examinations among black, Hispanic, and white women. Frazier EL, et al. **Prev Med** 1996 Mar–Apr;25(2):118–25
Exposure to environmental tobacco smoke––perceptions of African American children and adolescents. Kurtz ME, et al. **Prev Med** 1996 May–Jun;25(3):286–92
The recruitment of African–Americans to cancer prevention and control studies. Paskett ED, et al. **Prev Med** 1996 Sep–Oct;25(5):547–53
Analysis of a multicomponent smoking cessation project: what worked and why. Resnicow K, et al. **Prev Med** 1997 May–Jun;26(3):373–81
A trial of church–based smoking cessation interventions for rural African Americans. Schorling JB, et al. **Prev Med** 1997 Jan–Feb;26(1):92–101
Heart, body, and soul: impact of church–based smoking cessation interventions on readiness to quit. Voorhees CC, et al. **Prev Med** 1996 May–Jun;25(3):277–85
Race, quality of care, and antipsychotic prescribing practices in psychiatric emergency services. Segal SP, et al. **Psychiatr Serv** 1996 Mar;47(3):282–6
Clinical issues in the pharmacotherapy of African–Americans. Lawson WB. **Psychopharmacol Bull** 1996;32(2):275–81
Ethnic differences in analgesic consumption for postoperative pain. Ng B, et al. **Psychosom Med** 1996 Mar–Apr; 58(2):125–9
Nursing case management and its role in perinatal risk reduction: development, implementation, and evaluation of a culturally competent model for African American

women. Gonzalez-Calvo J, et al. **Public Health Nurs** 1997 Aug;14(4):190-206

Arterial hypertension in the adult population of Guadeloupe, and associated factors in subjects of African origin. Failde I, et al. **Rev Epidemiol Sante Publique** 1996 Oct; 44(5):417-26

Reliability of partner reports of sexual history in a heterosexual population at a sexually transmitted diseases clinic [see comments] Ellish NJ, et al. **Sex Transm Dis** 1996 Nov-Dec;23(6):446-52. Comment in: Sex Transm Dis 1996 Nov-Dec;23(6):522.

A randomized trial of an empirically-derived social support intervention to prevent low birthweight among African American women [see comments] Norbeck JS, et al. **Soc Sci Med** 1996 Sep;43(6):947-54. Comment in: Soc Sci Med 1997 Sep;45(5):797, 799.

Afrocentricity: an emerging paradigm in social work practice. Schiele JH. **Soc Work** 1996 May;41(3):284-94 (63 ref.)

Outcomes of hospitalization: factors influencing the discharges of African American and white dementia patients. Cox C. **Soc Work Health Care** 1996;23(1):23-38

Racial differences in the utilization of inpatient rehabilitation services among elderly stroke patients. Horner RD, et al. **Stroke** 1997 Jan;28(1):19-25

Geographic variation in stroke mortality in blacks and whites in the United States. Pickle LW, et al. **Stroke** 1997 Aug; 28(8):1639-47 (41 ref.)

Intracerebral hemorrhage in blacks. Risk factors, subtypes, and outcome. Qureshi AI, et al. **Stroke** 1997 May; 28(5):961-4

Race-ethnicity and determinants of carotid atherosclerosis in a multiethnic population. The Northern Manhattan Stroke Study. Sacco RL, et al. **Stroke** 1997 May; 28(5):929-35

Changes in drinking problems among whites, blacks, and Hispanics: 1984-1992. Caetano R, et al. **Subst Use Misuse** 1996 Sep-Oct;31(11-12):1547-71

The incidence of the gene for thermolabile methylene tetrahydrofolate reductase in African Americans. McAndrew PE, et al. **Thromb Res** 1996 Jul 15;83(2):195-8

African-American participation in prostate cancer screening [letter] Fowler JE Jr, et al. **Urology** 1997 Sep;50(3):483

African-American smokers and cancers of the lung and of the upper respiratory and digestive tracts. Is menthol part of the puzzle? Richardson TL. **West J Med** 1997 Mar; 166(3):189-94 (44 ref.)

Trauma and addiction experiences of African American women. Davis RE. **West J Nurs Res** 1997 Aug; 19(4):442-60; discussion 460-5

[Biological and therapeutic particularities of non-complicated hypertension in sub-Saharan Africa] Muna WF, et al. **Med Trop (Mars)** 1996;56(3 Suppl):11-3 (7 ref.) **(Fre)**

[Epidemiological aspects of hypertension in the black patient] Van de Walle JP, et al. **Med Trop (Mars)** 1996;56(3 Suppl):8-10 (25 ref.) **(Fre)**

EDUCATION

Qualitative development of smoking prevention programming for minority youth. Parker VC, et al. **Addict Behav** 1996 Jul-Aug;21(4):521-5

Assessing the impact of HIV risk reduction counseling in impoverished African American women: a structural equations approach. Nyamathi AM, et al. **AIDS Educ Prev** 1997 Jun;9(3):253-73

Effects of an obesity prevention program on the eating behavior of African American mothers and daughters. Stolley MR, et al. **Health Educ Behav** 1997 Apr; 24(2):152-64

The impact of nonacademic variables on performance at two medical schools. Webb CT, et al. **J Natl Med Assoc** 1997 Mar;89(3):173-80

GENETICS see NEGROID RACE/genetics

HISTORY

Black skin and the ideal of beauty [letter] Holubar K. **J Invest Dermatol** 1997 May;108(5):813-4

Homage to the NMA: the NDA story (1895 to 1975)--Part 2. Dummett CO. **J Natl Med Assoc** 1997 Aug;89(8):555-63

Homage to the NMA: the NDA story (1895 to 1975)--Part 1. Dummett CO. **J Natl Med Assoc** 1997 Jul;89(7):486-92

David Jones Peck, MD: a dream denied. Harris MJ. **J Natl Med Assoc** 1996 Sep;88(9):600-4

'A journal of our own': the medical and surgical observer at the beginnings of an African-American medical profession in late 19th-century America part two. Savitt TL. **J Natl Med Assoc** 1996 Feb;88(2):115-22

The growth and metamorphosis of Provident Hospital and Free Dispensary into the Liberty Health System, Inc. Miller JM. **Md Med J** 1997 Apr;46(4):193-7

African-American dentists in the U.S. Army: the origins. Hyson JM Jr. **Mil Med** 1996 Jul;161(7):375-81

John E. Moseley, M.D. 1909-1996. Rabinowitz JG. **Mt Sinai J Med** 1997 May;64(3):233-4

African American women Olympians: the impact of race, gender, and class ideologies, 1932-1968. Gissendanner CH. **Res Q Exerc Sport** 1996 Jun;67(2):172-82

PSYCHOLOGY

Dating-partner preferences among a group of inner-city African-American high school students. Smith SP. **Adolescence** 1996 Spring;31(121):79-90

Locus of control, self-concept, and self-esteem among at-risk African-American adolescents. Wood PC, et al. **Adolescence** 1996 Fall;31(123):597-604

Family support and survival among African-American end-stage renal disease patients. Holder B. **Adv Ren Replace Ther** 1997 Jan;4(1):13-21 (33 ref.)

Withdrawal from dialysis: a review with an emphasis on the black experience. Leggat JE Jr, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):22-9 (44 ref.)

Postrenal transplant compliance from the perspective of African-Americans, Hispanic-Americans, and Anglo-Americans. Siegal BR, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):46-54

Factors related to condom use with casual partners among urban African-American and Hispanic males. Ford K, et al. **AIDS Educ Prev** 1995 Dec;7(6):494-503

Ethnic differences in the association between behavior with a new partner: an event-based analysis. Graves KL, et al. **AIDS Educ Prev** 1997 Jun;9(3):219-37

Predictors of African American adolescents' condom use and HIV risk behavior. Reitman D, et al. **AIDS Educ Prev** 1996 Dec;8(6):499-515

Solitary drinking, social isolation, and escape drinking motives as predictors of high quantity drinking, among Anglo, African American and Mexican American males. Neff JA. **Alcohol Alcohol** 1997 Jan-Feb;32(1):33-41

Has awareness of the alcohol warning label reached its upper limit? Hankin JR, et al. **Alcohol Clin Exp Res** 1996 May; 20(3):440-4

Family, peer, and neighborhood influences on academic achievement among African-American adolescents: one-year prospective effects. Gonzales NA, et al. **Am J Community Psychol** 1996 Jun;24(3):365-87

Stress, coping, HIV status, psychosocial resources, and depressive mood in African American gay, bisexual, and heterosexual men. Peterson JL, et al. **Am J Community Psychol** 1996 Aug;24(4):461-87

Ethnocultural differences in prevalence of adolescent depression. Roberts RE, et al. **Am J Community Psychol** 1997 Feb;25(1):95-110

Predictors of increases in alcohol-related problems among black and white adults: results from the 1984 and 1992 National Alcohol Surveys. Jones-Webb R, et al. **Am J Drug Alcohol Abuse** 1997 May;23(2):281-99

Predictors of depression among the elderly: racial differences over time. Husaini BA. **Am J Orthopsychiatry** 1997 Jan; 67(1):48-58

African-American homeless and low-income housed mothers: comparison of parenting practices. Koblinsky SA, et al. **Am J Orthopsychiatry** 1997 Jan;67(1):37-47

Perceived burden among caregivers of adults with serious mental illness: comparison of black, Hispanic, and white families. Stueve A, et al. **Am J Orthopsychiatry** 1997 Apr; 67(2):199-209

Weapon carrying among black adolescents: a social network perspective. Myers GP, et al. **Am J Public Health** 1997 Jun;87(6):1038-40

A threat in the air. How stereotypes shape intellectual identity and performance. Steele CM. **Am Psychol** 1997 Jun;52(6):613-29

Fatalism and breast cancer in black women [letter; comment] Conrad ME, et al. **Ann Intern Med** 1996 Dec 1; 125(11):941-2. Comment on: Ann Intern Med 1996 May 15;124(10):897-905.

Mammography use in black women [letter; comment] Jackson RH, et al. **Ann Intern Med** 1997 Feb 15; 126(4):333-4. Comment on: Ann Intern Med 1996 Aug 1;125(3):173-82.

A model for describing low-income African American women's participation in breast and cervical cancer early detection and screening. Baldwin D. **ANS Adv Nurs Sci** 1996 Dec;19(2):27-42

Depression, stressful life events, social support, and self-esteem in middle class African American women. Warren BJ. **Arch Psychiatr Nurs** 1997 Jun;11(3):107-17

Dopamine D2 receptor gene polymorphisms and vulnerability to substance abuse in African Americans. Berrettini WH, et al. **Biol Psychiatry** 1996 Jul 15; 40(2):144-7

Pupils' self assessments of academic attainment at 7, 11 and 16 years: effects of sex and ethnic group. Blatchford P. **Br J Educ Psychol** 1997 Jun;67 (Pt 2):169-84

Morbid risk of schizophrenia in first-degree relatives of white and African-Caribbean patients with psychosis. Hutchinson G, et al. **Br J Psychiatry** 1996 Dec;169(6):776-80

Ethnic differences in circumstances of abuse and symptoms of depression and anger among sexually abused black and Latino boys. Moisan PA, et al. **Child Abuse Negl** 1997 May; 21(5):473-88

School leaving: a longitudinal perspective including neighborhood effects. Ensminger ME, et al. **Child Dev** 1996 Oct;67(5):2400-16

Interobserver agreement in the assessment of parental behavior and parent-adolescent conflict: African American mothers, daughters, and independent observers. Gonzales NA, et al. **Child Dev** 1996 Aug;67(4):1483-98

Neither too sweet nor too sour: problem peers, maternal control, and problem behavior in African American adolescents. Mason CA, et al. **Child Dev** 1996 Oct; 67(5):2115-30

Not just "ghosts in the nursery": contemporaneous intergenerational relationships and parenting in young African-American families. Wakschlag LS, et al. **Child Dev** 1996 Oct;67(5):2131-47

African American female adolescent identity development: a three-dimensional perspective. Stevens JW. **Child Welfare** 1997 Jan-Feb;76(1):145-72

Perceived experiences of racism as stressful life events. Thompson VL. **Community Ment Health J** 1996 Jun; 32(3):223-33

Parent and family support groups with African American families: the process of family and community empowerment. Boyd-Franklin N, et al. **Cult Divers Ment Health** 1997;3(2):83-92

A bio-ecological case study: a Caribbean child. Gopaul-McNicol SA, et al. **Cult Divers Ment Health** 1997; 3(2):145-51

Beauty is in the soul of the beholder: psychological implications of beauty and African American women. Hall CC. **Cult Divers Ment Health** 1995;1(2):125-37

Black women, work, stress, and perceived discrimination: the focused support group model as an intervention for stress reduction. Mays VM. **Cult Divers Ment Health** 1995; 1(1):53-65

Isolated sleep paralysis in African Americans with panic disorder. Paradis CM, et al. **Cult Divers Ment Health** 1997; 3(1):69-76

Developing theory as a personal response to systemic entrapment. Pinderhughes E. **Cult Divers Ment Health** 1996;2(3):157-69

The influence of race and gender on depressive and substance abuse symptoms in high-risk adolescents. Pumariega AJ, et al. **Cult Divers Ment Health** 1996;2(2):115-23

"Missed, dissed, and pissed": making meaning of neighborhood risk, fear and anger management in urban black youth. Stevenson HC Jr. **Cult Divers Ment Health** 1997;3(1):37-52

DSM-IV alcohol dependence and drug abuse/dependence in a treatment sample of whites, blacks and Mexican Americans. Caetano R, et al. **Drug Alcohol Depend** 1996 Dec 2;43(1-2):93-101

Ethnic differences in the psychosocial antecedents of needle/syringe disinfection. Longshore D, et al. **Drug Alcohol Depend** 1996 Nov;42(3):183-96

Social support, stress, and blood pressure in black adults [see comments] Strogatz DS, et al. **Epidemiology** 1997 Sep; 8(5):482-7. Comment in: Epidemiology 1997 Sep;8(5):469-70.

The health consequences of racial discrimination: a study of African Americans. Broman CL. **Ethn Dis** 1996 Winter-Spring;6(1-2):148-53

Social identity and arterial blood pressure in the African-American community. Dressler WW. **Ethn Dis** 1996 Winter-Spring;6(1-2):176-89

Affective and physiological responses to racism: the roles of afrocentrism and mode of presentation. Jones DR, et al. **Ethn Dis** 1996 Winter-Spring;6(1-2):109-22

The perceived racism scale: a multidimensional assessment of the experience of white racism among African Americans. McNeilly MD, et al. **Ethn Dis** 1996 Winter-Spring;6(1-2):154-66

Gender differences in mood and cardiovascular responses to socially stressful stimuli. Morris-Prather CE, et al. **Ethn Dis** 1996 Winter-Spring;6(1-2):123-31

Racism and the mental health of African Americans: the role of self and system blame. Neighbors HW, et al. **Ethn Dis** 1996 Winter-Spring;6(1-2):167-75 (53 ref.)

Racism and children's health: issues in development. Williams-Morris RS. **Ethn Dis** 1996 Winter-Spring; 6(1-2):69-82 (49 ref.)

Factors associated with use of the female condom. Sly DF, et al. **Fam Plann Perspect** 1997 Jul-Aug;29(4):181-4

Treating inner-city families of homicide victims: a contextually oriented approach. Temple S. **Fam Process** 1997 Jun;36(2):133-49

Religiosity and perceived rewards of black and white caregivers. Picot SJ, et al. **Gerontologist** 1997 Feb; 37(1):89-101

Mistrust, racism, and end-of-life treatment. Krakauer EL, et al. **Hastings Cent Rep** 1997 May-Jun;27(3):23; discussion 23-5

A self-help smoking cessation program for inner-city African Americans: results from the Harlem Health Connection Project. Resnicow K, et al. **Health Educ Behav** 1997 Apr; 24(2):201-17

A comprehensive Afrocentric rites of passage program for black male adolescents. Harvey AR, et al. **Health Soc Work** 1997 Feb;22(1):30-7

Strain among caregivers: comparing the experiences of African American and Hispanic caregivers of Alzheimer's relatives. Cox C, et al. **Int J Aging Hum Dev** 1996; 43(2):93-105

Strengths and needs of working-class African-American and Anglo-American grandparents. Watson JA, et al. **Int J Aging Hum Dev** 1997;44(2):149-65

Relationship of weight, body dissatisfaction, and self-esteem in African American and white female dieters. Caldwell MB, et al. **Int J Eat Disord** 1997 Sep;22(2):127-30

Eating disturbance and body image: a comparison of a community sample of adult black and white women.

Wilfley DE, et al. **Int J Eat Disord** 1996 Dec;20(4):377–87

Prevalence and health implications of anti–gay discrimination: a study of black and white women and men in the CARDIA cohort. Coronary Artery Risk Development in Young Adults. Krieger N, et al. **Int J Health Serv** 1997;27(1):157–76

Cross–cultural perspectives: Caribbean, Native American, and Yoruba. Hendrie HC, et al. **Int Psychogeriatr** 1996;8 Suppl 3:483–6

Cross–cultural perspectives: agitation in demented patients in the United States. Mintzer JE, et al. **Int Psychogeriatr** 1996;8 Suppl 3:487–90; discussion 491–2

Treatment of traumagenic beliefs among sexually abused girls and their mothers: an evaluation study. Celano M, et al. **J Abnorm Child Psychol** 1996 Feb;24(1):1–17

Aggression and environmental risk among low–income African–American youth. Fitzpatrick KM. **J Adolesc Health** 1997 Sep;21(3):172–8

Searching for resilience among African–American youth exposed to community violence: theoretical issues. Howard DE. **J Adolesc Health** 1996 Apr;18(4):254–62 (66 ref.)

Black–white differences in body size perceptions and weight management practices among adolescent females. Neff LJ, et al. **J Adolesc Health** 1997 Jun;20(6):459–65

Longitudinal stability and predictability of sexual perceptions, intentions, and behaviors among early adolescent African–Americans. Stanton BF, et al. **J Adolesc Health** 1996 Jan;18(1):10–9

Clinical presentations of major depression by African Americans and whites in primary medical care practice. Brown C, et al. **J Affect Disord** 1996 Dec 16;41(3):181–91

Depression in former school–age mothers and community comparison subjects. Horwitz SM, et al. **J Affect Disord** 1996 Sep 9;40(1–2):95–103

Symptoms of DSM–III–R major depression among Anglo, African and Mexican American adolescents. Roberts RE, et al. **J Affect Disord** 1995 Dec 24;36(1–2):1–9

Racial influence on diagnosis in psychotic mania. Strakowski SM, et al. **J Affect Disord** 1996 Jul 8;39(2):157–62

Gender differences, but no racial group differences, in self–reported psychiatric symptoms in adolescents. Casper RC, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr; 35(4):500–8

Ethnicity, gender identity, stress, and coping among female African–American medical students. Shervington DO, et al. **J Am Med Womens Assoc** 1996 Aug–Oct;51(4):153–4

Racial subgroup differences in predictive validity perceptions on personality and cognitive ability tests. Chan D. **J Appl Psychol** 1997 Apr;82(2):311–20

Reactions to cognitive ability tests: the relationships between race, test performance, face validity perceptions, and test–taking motivation. Chan D, et al. **J Appl Psychol** 1997 Apr;82(2):300–10

Professional perceptions of children with developmental difficulties: the influence of race and socioeconomic status. Cuccaro ML, et al. **J Autism Dev Disord** 1996 Aug; 26(4):461–9

Childhood, adolescent, and young adult predictors of suicidal behaviors: a prospective study of African Americans. Juon HS, et al. **J Child Psychol Psychiatry** 1997 Jul;38(5):553–63

The identity of mixed parentage adolescents. Tizard B, et al. **J Child Psychol Psychiatry** 1995 Nov;36(8):1399–410

MMPI–2 patterns in African–American females. Reed MK, et al. **J Clin Psychol** 1996 Jul;52(4):437–41

Psychological adjustment of adults with sickle cell anemia: stability over 20 months, correlates, and predictors. Thompson RJ Jr, et al. **J Clin Psychol** 1996 May; 52(3):253–61

Using focus group methodology to develop breast cancer screening programs that recruit African American women. Williams GA, et al. **J Community Health** 1997 Feb; 22(1):45–56

Family processes and risk for externalizing behavior problems among African American and Hispanic boys. Florsheim P, et al. **J Consult Clin Psychol** 1996 Dec;64(6):1222–30

Appraisal, coping, and social support as mediators of well–being in black and white family caregivers of patients with Alzheimer's disease. Haley WE, et al. **J Consult Clin Psychol** 1996 Feb;64(1):121–9

Probing the paradoxical pattern of cigarette smoking among African–Americans: low teenage consumption and high adult use. Feigelman W, et al. **J Drug Educ** 1995; 25(4):307–20

Differences in end–of–life decision making among black and white ambulatory cancer patients. McKinley ED, et al. **J Gen Intern Med** 1996 Nov;11(11):651–6

Drug use and delinquency: shared and unshared risk factors in African American and Puerto Rican adolescents. Brook JS, et al. **J Genet Psychol** 1997 Mar;158(1):25–39

Middle– and working–class black and white children's speech during a picture–labeling task. Lawrence VW. **J Genet Psychol** 1997 Jun;158(2):226–40

Characteristics of depressive symptoms in elderly urban and rural African Americans. Okwumabua JO, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul;52(4):M241–6

Double jeopardy, aging as leveler, or persistent health inequality? A longitudinal analysis of white and black Americans. Ferraro KF, et al. **J Gerontol B Psychol Sci Soc Sci** 1996 Nov;51(6):S319–28

Welfare and psychological distress: a longitudinal study of African American urban mothers. Ensminger ME. **J Health Soc Behav** 1995 Dec;36(4):346–59

Health trajectories: long–term dynamics among black and white adults. Ferraro KF, et al. **J Health Soc Behav** 1997 Mar;38(1):38–54

Ethnic differences in caregiving duties and burdens among parents and siblings of persons with severe mental illnesses. Horwitz AV, et al. **J Health Soc Behav** 1995 Jun; 36(2):138–50

Stress–related disorders in African–American children. Bell CC. **J Natl Med Assoc** 1997 May;89(5):335–40

Black/white differences in attitudes toward physician–assisted suicide. Lichtenstein RL, et al. **J Natl Med Assoc** 1997 Feb;89(2):125–33

African–American males and prostate cancer: assessing knowledge levels in the community. Smith GE, et al. **J Natl Med Assoc** 1997 Jun;89(6):387–91

Knowledge, beliefs, attitudes, and cancer screening among inner–city African–American women. Sung JF, et al. **J Natl Med Assoc** 1997 Jun;89(6):405–11

African American teen mothers' perceptions of parenting. Wayland J, et al. **J Pediatr Nurs** 1997 Feb;12(1):13–20

A racial comparison of combat veterans evaluated for PTSD. Frueh BC, et al. **J Pers Assess** 1997 Jun;68(3):692–702

The self as a mediator between personality and adjustment. Graziano WG, et al. **J Pers Soc Psychol** 1997 Aug; 73(2):392–404

Anti–black prejudice as a function of exposure to the negative behavior of a single black person. Henderson–King EI, et al. **J Pers Soc Psychol** 1996 Oct;71(4):654–64

Evidence for racial prejudice at the implicit level and its relationship with questionnaire measures. Wittenbrink B, et al. **J Pers Soc Psychol** 1997 Feb;72(2):262–74

Task performance of black and white children across levels of presentation variability. Boykin AW, et al. **J Psychol** 1997 Jul;131(4):427–37

Retrospective perceptions of parents' child–rearing conduct by same–sex sibling trios in African American and European American families. Marsh V, et al. **J Psychol** 1997 Mar;131(2):187–95

Trends in mortality and health behaviors: status of white and African–American women. Macera CA, et al. **J S C Med Assoc** 1996 Oct;92(10):421–5

Response of African–American adolescents in North Carolina to gun carrying by school mates. Martin SL, et al. **J Sch Health** 1996 Jan;66(1):23–6

Black and white adolescent females' perceptions of ideal body size. Parnell K, et al. **J Sch Health** 1996 Mar;66(3):112–8

Ethnic differences in women's body satisfaction: an experimental investigation. Henriques GR, et al. **J Soc Psychol** 1996 Dec;136(6):689–97

Sex ratios of drinking patterns and problems among blacks and whites: results from a national survey. Herd D. **J Stud Alcohol** 1997 Jan;58(1):75–82

Afrocentric treatment in residential substance abuse care. The Iwo San. Jackson MS, et al. **J Subst Abuse Treat** 1997 Jan–Feb;14(1):87–92

The impact of Hurricane Andrew on deviant behavior among a multi–racial/ethnic sample of adolescents in Dade County, Florida: a longitudinal analysis. Khoury EL, et al. **J Trauma Stress** 1997 Jan;10(1):71–91

Decision making in delinquency cases: the role of race and juveniles' admission/denial of the crime. Ruback RB, et al. **Law Hum Behav** 1997 Feb;21(1):47–69

Health of grandmothers raising children of the crack cocaine epidemic. Roe KM, et al. **Med Care** 1996 Nov; 34(11):1072–84

The distinction of malingering and mental illness in black forensic cases. Bunnting BG, et al. **Med Law** 1996; 15(2):241–7

Portrayals of African Americans in family medicine recruiting literature. Nasir LS. **Nebr Med J** 1996 Feb; 81(2):37–8

Comparison of African–American and white persons with Alzheimer's disease on language measures. Ripich DN, et al. **Neurology** 1997 Mar;48(3):781–3

Wellness motivation theory: an exploration of theoretical relevance. Fleury J. **Nurs Res** 1996 Sep–Oct;45(5):277–83

The theory of planned behavior applied to cigarette smoking in African–American, Puerto Rican, and non–Hispanic white teenage females. Hanson MJ. **Nurs Res** 1997 May–Jun;46(3):155–62

Prenatal care among African–American women [letter] Walton–Moss B. **Nurse Pract** 1996 Nov;21(11):23, 148, 153

Comparison of attitudes and behaviors related to nutrition, body size, dieting, and hunger in Russian, black–American, and white–American adolescents. Stevens J, et al. **Obes Res** 1997 May;5(3):227–36

Increasing prostate cancer awareness in African American men. Collins M. **Oncol Nurs Forum** 1997 Jan–Feb; 24(1):91–5

Getting a Pap smear: focus group responses of African American and Latina women. Jennings KM. **Oncol Nurs Forum** 1997 Jun;24(5):827–35

Perception of body shape in elderly white and black men. Abadie BR, et al. **Percept Mot Skills** 1996 Oct;83(2):449–50

Exploring psychosocial task resolution and self–concept among African–American adolescents. Brookins CC. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):803–10

Race–specific versus general stamps on African–American women's survey return rates. Price JH, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):928–30

Principal components analysis of the Physical Self–Efficacy Scale for a black sample. Sumerlin JR, et al. **Percept Mot Skills** 1996 Aug;83(1):35–40

Jaffee v. Redmond: psychotherapist–patient privilege in the federal courts. Appelbaum PS. **Psychiatr Serv** 1996 Oct; 47(10):1033–4, 1052

Congruence between education and reading levels of older persons. Baker FM, et al. **Psychiatr Serv** 1996 Feb; 47(2):194–6

Pimping the African–American community [editorial] Bell CC. **Psychiatr Serv** 1996 Oct;47(10):1025

Maternal characteristics and inadequate prenatal care. Abel MH. **Psychol Rep** 1996 Dec;79(3 Pt 1):903–12

Self–concept and locus of control among South African adolescents. Mboya MM, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1235–8

Reliability of a knowledge of AIDS scale a replication. Nicholas L, et al. **Psychol Rep** 1996 Oct;79(2):529–30

Diagnostic differences related to age and race of involuntarily committed psychiatric patients. Rayburn TM, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):881–2

Academic performance among children with sickle cell disease: setting minimum standards for comparison groups. Richard HW, et al. **Psychol Rep** 1997 Aug;81(1):27–34

Adjustment of children and interaction of parent and child among single mothers in a disadvantaged South African community. Skuy M, et al. **Psychol Rep** 1997 Jun;80(3 Pt 2):1171–80

Distinctiveness is in the eye of the beholder: cross–racial differences in perceptions of faces. Van Wallendael LR, et al. **Psychol Rep** 1997 Feb;80(1):35–9

Black south African adolescents' attitudes about studying. Watson MB, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):861–2

Occupational aspirations of black South African adolescents. Watson MB, et al. **Psychol Rep** 1997 Apr;80(2):627–35

Acquisition of high–risk behavior by African–American, Latino, and Caucasian middle–school students. Westhoff WW, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):787–95

Psychosocial factors and plasma lipids in black and white young adults: the Coronary Artery Risk Development in Young Adults Study data. Knox SS, et al. **Psychosom Med** 1996 Jul–Aug;58(4):365–73

Influence of ethnicity and gender on cardiovascular responses to active coping and inhibitory–passive coping challenges. Saab PG, et al. **Psychosom Med** 1997 Jul–Aug;59(4):434–46

Effects of cynical hostility, anger out, anxiety, and defensiveness on ambulatory blood pressure in black and white college students. Shapiro D, et al. **Psychosom Med** 1996 Jul–Aug;58(4):354–64

Social support as road map and vehicle: an analysis of data from focus group interviews with a group of African American women. Di Martile Bolla C, et al. **Public Health Nurs** 1996 Oct;13(5):331–6

The relationship of perceived benefits of and barriers to reported exercise in older African American women. Jones M, et al. **Public Health Nurs** 1996 Apr;13(2):151–8

Racial differences in the diagnosis of psychosis. Strakowski SM, et al. **Schizophr Res** 1996 Aug 23;21(2):117–24

The effects of health and treatment perceptions on the use of prescribed medication and home remedies among African American and white American hypertensives. Brown CM, et al. **Soc Sci Med** 1996 Sep;43(6):903–17

Social support in pregnancy can reduce the incidence of low birthweight deliveries [letter; comment] Pittroff R. **Soc Sci Med** 1997 Sep;45(5):797, 799. Comment on: Soc Sci Med 1996 Sep;43(6):947–54.

Cleaning the womb: constructions of cervical screening and womb cancer among rural black women in South Africa. Wood K, et al. **Soc Sci Med** 1997 Jul;45(2):283–94

Mothers in recovery: rebuilding families in the aftermath of addiction. Carten AJ. **Soc Work** 1996 Mar;41(2):214–23

Are culturally sophisticated agencies better workplaces for social work staff and administrators? Gant LM. **Soc Work** 1996 Mar;41(2):163–71

Kinship care: the African American response to family preservation. Scannapieco M, et al. **Soc Work** 1996 Mar; 41(2):190–6

Factors associated with early sexual activity among urban adolescents. Smith CA. **Soc Work** 1997 Jul;42(4):334–46

Challenging privilege through Africentric social work practice. Swigonski ME. **Soc Work** 1996 Mar;41(2):153–61

Effectiveness of a family skills training program for substance use prevention with inner city African–American families. Aktan GB, et al. **Subst Use Misuse** 1996 Jan;31(2):157–75

The influence of religious affiliation on sociocultural predictors of drinking among Black and White Americans. Herd D. **Subst Use Misuse** 1996 Jan;31(1):35–63

Measuring affiliation with 12–step groups. Kingree JB. **Subst Use Misuse** 1997 Jan;32(2):181–94

Pathways into drug user treatment: the influence of gender and racial/ethnic identity. Kline A. **Subst Use Misuse** 1996 Feb;31(3):323–42

African–American women in an alcohol intervention group: addressing personal and political problems. Saulnier CF. **Subst Use Misuse** 1996 Aug;31(10):1259–78

African–American suicide: a cultural paradox. Gibbs JT. **Suicide Life Threat Behav** 1997 Spring;27(1):68–79

Protective factors for suicidal black females. Nisbet PA. **Suicide Life Threat Behav** 1996 Winter;26(4):325–41

Psychosocial correlates of chest pain among African–American women. Fisher SG, et al. **Women Health** 1996;24(3):19–35

BLACKS

STATISTICS & NUMERICAL DATA

Perception of friends' use of alcohol, cigarettes, and marijuana among urban schoolchildren: a longitudinal analysis. Iannotti RJ, et al. **Addict Behav** 1996 Sep–Oct; 21(5):615–32

Street children in South Africa: findings from interviews on the background of street children in Pretoria, South Africa. Le Roux J. **Adolescence** 1996 Summer;31(122):423–31

HIV testing among low–income African–American mothers. Battle RS, et al. **AIDS Educ Prev** 1996 Apr;8(2):165–75

Examination of the relationship between African American adolescents' condom use at sexual onset and later sexual behavior: implications for condom distribution programs. Lawrence JS, et al. **AIDS Educ Prev** 1996 Jun;8(3):258–66

HIV risks and risk reduction readiness in hard–to–reach, drug–using African American and Mexican American women: an exploratory study. Turner NH, et al. **AIDS Educ Prev** 1996 Jun;8(3):236–46

Effects of age on perinatal substance abuse among whites and African Americans. Vega WA, et al. **Am J Drug Alcohol Abuse** 1997 Aug;23(3):431–51

Severe obesity as an explanatory factor for the black/white difference in stage at diagnosis of breast cancer. Jones BA, et al. **Am J Epidemiol** 1997 Sep 1;146(5):394–404

Fatal agricultural injuries in North Carolina by race and occupation, 1977–1991. Richardson D, et al. **Am J Ind Med** 1997 Apr;31(4):452–8

Determinants of physical activity among female adolescents. Bungum TJ, et al. **Am J Prev Med** 1997 Mar–Apr; 13(2):115–22

Building relationships and resilience in the prevention of youth violence. Gabriel RM, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):48–55

Attributional bias and reactive aggression. Hudley C, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):75–81

Peer and community leader education to prevent youth violence. Wiist WH, et al. **Am J Prev Med** 1996 Sep–Oct; 12(5 Suppl):56–64

Cocaine use and characteristics of young adult users from 1987 to 1992: the CARDIA Study. Coronary Artery Risk Development in Young Adults. Braun BL, et al. **Am J Public Health** 1996 Dec;86(12):1736–41

Recent trends in breast cancer mortality among white and black US women. Chevarley F, et al. **Am J Public Health** 1997 May;87(5):775–81

US trends in disability and institutionalization among older Blacks and Whites [see comments] Clark DO. **Am J Public Health** 1997 Mar;87(3):438–40. Comment in: Am J Public Health 1997 Mar;87(3):333–4.

Very–low–birthweight infants and income incongruity among African American and white parents in Chicago. Collins JW Jr, et al. **Am J Public Health** 1997 Mar; 87(3):414–7

Antibody testing and condom use among heterosexual African Americans at risk for HIV infection: the National AIDS Behavioral Surveys. Grinstead OA, et al. **Am J Public Health** 1997 May;87(5):857–9

Socioeconomic status and racial and ethnic differences in functional status associated with chronic diseases [see comments] Kington RS, et al. **Am J Public Health** 1997 May;87(5):805–10. Comment in: Am J Public Health 1997 May;87(5):728–30.

Weapon carrying among black adolescents: a social network perspective. Myers GP, et al. **Am J Public Health** 1997 Jun;87(6):1038–40

Region of birth and mortality from circulatory diseases among black Americans [see comments] Schneider D, et al. **Am J Public Health** 1997 May;87(5):800–4. Comment in: Am J Public Health 1997 May;87(5):724–6.

Region of birth and mortality among black Americans [editorial; comment] Vågerö D. **Am J Public Health** 1997 May;87(5):724–6. Comment on: Am J Public Health 1997 May;87(5):800–4.

Use of postmenopausal hormone replacement therapy by African American women. The importance of physician discussion. McNagny SE, et al. **Arch Intern Med** 1997 Jun 23;157(12):1337–42

Incidence of colorectal adenocarcinoma by anatomic subsite. An epidemiologic study of time trends and racial differences in the Detroit, Michigan area. Demers RY, et al. **Cancer** 1997 Feb 1;79(3):441–7

The influence of black race and socioeconomic status on the use of breast–conserving surgery for Medicare beneficiaries. Michalski TA, et al. **Cancer** 1997 Jan 15; 79(2):314–9

The National Cancer Data Base report on malignant epithelial ovarian carcinoma in African–American women. Parham G, et al. **Cancer** 1997 Aug 15;80(4):816–26

Lung carcinoma in African Americans and whites. A population–based study in metropolitan Detroit, Michigan. Schwartz AG, et al. **Cancer** 1997 Jan 1;79(1):45–52

African American families and HIV/AIDS: caring for surviving children. Carten AJ, et al. **Child Welfare** 1997 Jan–Feb;76(1):107–25

Why marry? Race and the transition to marriage among cohabitors. Manning WD, et al. **Demography** 1995 Nov; 32(4):509–20

Patterns of hospital use, family history and co–existing conditions among urban African–American and Hispanic–American children with insulin–dependent diabetes mellitus. Lipton RB. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S173–9

Association among health habits, risk factors, and all–cause mortality in a black California population. Fraser GE, et al. **Epidemiology** 1997 Mar;8(2):168–74

The determinants of first sex by age 14 in a high–risk adolescent population. Mott FL, et al. **Fam Plann Perspect** 1996 Jan–Feb;28(1):13–8

Geropsychiatric consultation for African–American and Caucasian patients. Leo RJ, et al. **Gen Hosp Psychiatry** 1997 May;19(3):216–22

Factors associated with paranoid symptoms in a community sample of older adults. Blazer DG, et al. **Gerontologist** 1996 Feb;36(1):70–5

Racial differences in the household composition of elders by age, gender, and area of residence. Coward RT, et al. **Int J Aging Hum Dev** 1996;42(3):205–27

The effects of race on the use of physician's services. Fichtenbaum R, et al. **Int J Health Serv** 1997;27(1):139–56

African–American and Puerto Rican drug use: a longitudinal study. Brook JS, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1260–8

Health status gender differences of newly admitted black nursing home residents. Martin JC, et al. **J Am Geriatr Soc** 1997 Feb;45(2):166–73

Racial differences in performance of invasive cardiac procedures in a Department of Veterans Affairs Medical Center. Sedlis SP, et al. **J Clin Epidemiol** 1997 Aug; 50(8):899–901

Patient–physician pairing: does racial and ethnic congruity influence selection of a regular physician? Gray B, et al. **J Community Health** 1997 Aug;22(4):247–59

Cancer coverage and tobacco advertising in African–American women's popular magazines. Hoffman–Goetz L, et al. **J Community Health** 1997 Aug; 22(4):261–70

Recruitment and retention of African American patients for clinical research: an exploration of response rates in an urban psychiatric hospital. Thompson EE, et al. **J Consult Clin Psychol** 1996 Oct;64(5):861–7

Screening African–American elderly for the presence of depressive symptoms: a preliminary investigation. Baker FM, et al. **J Geriatr Psychiatry Neurol** 1996 Jul;9(3):127–32

Differences in follow–up visits between African American and white Medicaid children hospitalized with asthma. Ali S, et al. **J Health Care Poor Underserved** 1997 Feb; 8(1):83–98

The degree of usual provider continuity for African and Latino Americans. Cornelius LJ. **J Health Care Poor Underserved** 1997 May;8(2):170–85

African American administrators in community/migrant health centers. Glover SH, et al. **J Health Care Poor Underserved** 1997 May;8(2):153–69

African American and white differences in nutritional status among low–income women attending public health clinics. Liu T, et al. **J Health Care Poor Underserved** 1996 Nov; 7(4):323–37

Stroke Belt initiative: the Tennessee experience. Okwumabua JO, et al. **J Health Care Poor Underserved** 1997 Aug; 8(3):292–9

Use of plant–derived therapies in a rural, biracial population in Mississippi. Frate DA, et al. **J Miss State Med Assoc** 1996 Jan;37(1):427–9

Why do African–American men suffer more prostate cancer? [news] McIntosh H. **J Natl Cancer Inst** 1997 Feb 5; 89(3):188–9

Birth cohort and calendar period trends in breast cancer mortality in the United States and Canada. Tarone RE, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):251–6

Mitral valve prolapse [letter; comment] Cheng TO. **J Natl Med Assoc** 1995 Nov;87(11):785. Comment on: J Natl Med Assoc 1995 Apr;87(4):273–5.

Adequacy of prenatal care utilization, maternal ethnicity, and infant birthweight in Chicago. Collins JW Jr, et al. **J Natl Med Assoc** 1997 Mar;89(3):198–203

Nicotine and alcohol abuse in African American women who smoke crack cocaine. Boyd CJ, et al. **J Subst Abuse** 1996; 8(4):463–9

The relationships of substance abuse to illegal and violent behavior, in a community sample of young adult African American men and women (gender differences). Friedman AS, et al. **J Subst Abuse** 1996;8(4):379–402

Dental health attitudes among dentate black and white adults. Gilbert GH, et al. **Med Care** 1997 Mar;35(3):255–71

Physical and cognitive functioning among chronically ill African–American and white elderly in home care following hospital discharge. Proctor EK, et al. **Med Care** 1997 Aug;35(8):782–91

Theoretical perspectives on violence and youth. Miller F, et al. **Med Health R I** 1996 Jul;79(7):261–3

Education, health behaviors, and the black–white difference in waist–to–hip ratio. Croft JB, et al. **Obes Res** 1996 Nov; 4(6):505–12

Race, age, and cesarean delivery in a military population. Irwin DE, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):530–3

Racial variations in treatment for glaucoma and cataract among Medicare recipients. Wang F, et al. **Ophthalmic Epidemiol** 1997 Jun;4(2):89–100

The moderating effects of race on return visits to the psychiatric emergency room. Klinkenberg WD, et al. **Psychiatr Serv** 1997 Jul;48(7):942–5

Incidence and outcome of schizophrenia in whites, African–Caribbeans and Asians in London. Bhugra D, et al. **Psychol Med** 1997 Jul;27(4):791–8

Increased incidence of psychotic disorders in migrants from the Caribbean to the United Kingdom. Harrison G, et al. **Psychol Med** 1997 Jul;27(4):799–806

Schizophrenia in Surinamese and Dutch Antillean immigrants to The Netherlands: evidence of an increased incidence. Selten JP, et al. **Psychol Med** 1997 Jul;27(4):807–11

Inequality of income and rates of violence in Caucasian and black groups. Lester D. **Psychol Rep** 1996 Dec;79(3 Pt 1):978

Racial fertility differences: the role of female employment and education in wanted and unwanted childbearing. Burr JA, et al. **Soc Biol** 1996 Fall–Winter;43(3–4):218–41

The "race" concept in smoking: a review of the research on African Americans. King G. **Soc Sci Med** 1997 Oct; 45(7):1075–87

Acquired immunodeficiency syndrome in Alabama: special concerns for black women. Holmes R, et al. **South Med J** 1997 Jul;90(7):697–701

Prevalence of coronary heart disease risk factors among rural blacks: a community–based study. Willems JP, et al. **South Med J** 1997 Aug;90(8):814–20

African Americans and women have the highest stroke mortality in Texas. Morgenstern LB, et al. **Stroke** 1997 Jan;28(1):15–8

The effect of marital integration on African American suicide. Stack S. **Suicide Life Threat Behav** 1996 Winter; 26(4):405–14

Condom use with main partners by sterilized and non–sterilized women. Semaan S, et al. **Women Health** 1997;25(2):65–85

BLACKWATER FEVER

COMPLICATIONS

Blackwater fever and acute renal failure in expatriates in Africa. Mate–Kole MO, et al. **Ren Fail** 1996 May; 18(3):525–31

HISTORY

[Blackwater fever: a French episode drawn from the research of Alexandre Yersin] Raggenbass R. **Gesnerus** 1995; 52(3–4):264–89 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Blackwater fever in southern Vietnam: a prospective descriptive study of 50 cases. Tran TH, et al. **Clin Infect Dis** 1996 Dec;23(6):1274–81

BLADDER

consider also terms at CYST– and VESIC–

see related
ADMINISTRATION, INTRAVESICAL
CYSTECTOMY
CYSTOSCOPY
CYSTOSTOMY
URINARY CATHETERIZATION

An unusual case of cystolithiasis: a urological lesson for gynaecologists. Cumming GP, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):117–8

Migration of a Filshie clip into the urinary bladder seven years after laparoscopic sterilisation. Kesby GJ, et al. **Br J Obstet Gynaecol** 1997 Mar;104(3):379–82

Haematuria 2 years after transurethral resection of the prostate. Meganathan V, et al. **Br J Urol** 1997 Jul;80(1):149

Urinary incontinence in women. Retzky SS, et al. **Clin Symp** 1995;47(3):2–32

Repeated macroscopic haematuria caused by intravesical migration of a preperitoneal prosthesis. Savioz D, et al. **Eur J Surg** 1997 Aug;163(8):631–2

Abdominal pregnancy on the bladder wall following embryo transfer with cryopreserved–thawed embryos: a case report. delRosario R, et al. **Fertil Steril** 1996 Nov; 66(5):839–41

An analysis of the effect of ovoid shields in a selectron–LDR cervical applicator on dose distributions in rectum and bladder. Steggerda MJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):237–45

Dose–volume histograms for bladder and rectum. Ting JY, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15; 38(5):1105–11

The effect of treatment positioning on normal tissue dose in patients with prostate cancer treated with three–dimensional conformal radiotherapy. Zelefsky MJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):13–9

Endoscopic transvesico–transurethral approach for repair of vesicovaginal fistula: initial case report. Okamura K, et al. **J Endourol** 1997 Jun;11(3):203–5

Endoscopic removal of difficult bladder foreign bodies. Gaffney CM. **J S C Med Assoc** 1996 Jan;92(1):9–10

Pneumaturia in a young woman. Frangi I, et al. **J Urol** 1997 Mar;157(3):961

Gossypiboma (retained surgical sponge) and recurrent bladder neck contracture after radical retropubic prostatectomy and bilateral pelvic lymph node dissection. Heffernan JP, et al. **J Urol** 1997 Apr;157(4):1356–7

An unusual urological complication due to vascular surgery: transvesical polytetrafluoroethylene iliofemoral graft. Hubert J, et al. **J Urol** 1996 Dec;156(6):2004–5

Bladder neck support prosthesis: a nonoperative treatment

for stress or mixed urinary incontinence [see comments] Kondo A, et al. **J Urol** 1997 Mar;157(3):824–7. Comment in: J Urol 1997 Mar;157(3):828–9.
Alloplastic replacement of the urinary bladder. Rohrmann D, et al. **J Urol** 1996 Dec;156(6):2094–7
Erosion of malleable penile prosthesis into bladder. Swana HS, et al. **J Urol** 1997 Jun;157(6):2259–60
The significance of non–visualization of the fetal bladder during an ultrasound examination to evaluate second–trimester oligohydramnios. Brumfield CG, et al. **Ultrasound Obstet Gynecol** 1996 Sep;8(3):186–91
Double–knotted feeding tube in a child's bladder. Gonzalez CM, et al. **Urology** 1997 May;49(5):772
[Concentration of asbestos fibers in urothelial tumors and in the neoplasm–free bladder wall] Pollice L, et al. **G Ital Med Lav** 1995 Jan–Nov;17(1–6):11–5 (Eng. Abstr.) **(Ita)**
[Unusual finding of a foreign body during forensic medical expertise on a cadaver] Demiev IN, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):52–3 **(Rus)**
[Intravesical migration of an artificial urinary sphincter AMS–800: a rare complication] Asensio Egea L, et al. **Actas Urol Esp** 1996 Nov–Dec;20(10):915–8 (11 ref.) (Eng. Abstr.) **(Spa)**
[A new solution to the retained Foley catheter] Torrús Tendero P, et al. **Arch Esp Urol** 1997 Mar;50(2):183–5 (Eng. Abstr.) **(Spa)**
[A large mass at the urinary bladder level associated with a deep venous thrombosis] Stiefel García–Junco P, et al. **Rev Clin Esp** 1996 Sep;196(9):657–8 **(Spa)**

ABNORMALITIES

A case of Menkes' syndrome associated with deafness and inferior cerebellar vermian hypoplasia [letter] Aynaci FM, et al. **Acta Paediatr** 1997 Jan;86(1):121–3
A case of bladder agenesis. Paşaoğlu E, et al. **Australas Radiol** 1997 May;41(2):201–3
Case report: antenatal ultrasonic diagnosis of complete bladder duplication [published erratum appears in Clin Radiol 1997 Feb;52(2):164] O'Sullivan GJ, et al. **Clin Radiol** 1996 Nov;51(11):818–9
Rectovesical fistula: a possible cause of postnatal lethality in F1 Dh/+ male mice between DDD female and DH (Dh/+) male. Suto J, et al. **Exp Anim** 1996 Oct; 45(4):399–402
Early prenatal diagnosis of bladder exstrophy: case report and review of the literature. Khandelwal M, et al. **Fetal Diagn Ther** 1996 Mar–Apr;11(2):146–9 (13 ref.)
Urachal remnants: sonographic assessment. Robert Y, et al. **J Clin Ultrasound** 1996 Sep;24(7):339–44
Megacystis microcolon intestinal hypoperistalsis syndrome: evidence of a primary myocellular defect of contractile fiber synthesis. Ciftci AO, et al. **J Pediatr Surg** 1996 Dec; 31(12):1706–11
A unique presentation of atypical complete duplication of terminal ileum, colon, rectum, and urinary bladder. Gopal SC, et al. **J Pediatr Surg** 1997 Aug;32(8):1250–1
Evaluation of the lower urinary tract function in caudal duplication (dipygus) anomaly. Ulman I, et al. **J Pediatr Surg** 1996 Dec;31(12):1680–1
Adenocarcinoma in a duplicated bladder. Brandes SB, et al. **J Surg Oncol** 1997 Aug;65(4):280–3
Complete bladder duplication with exstrophy of 1 moiety in a male infant. Fouda–Neel K, et al. **J Urol** 1996 Oct; 156(4):1468
Renal transplantation into abnormal bladders [editorial; comment] González R. **J Urol** 1997 Sep;158(3 Pt 1):895–6 . Comment on: J Urol 1997 Sep;158(3 Pt 1):892–4.
Penis and bladder agenesis in a living male neonate. Kaefer M, et al. **J Urol** 1997 Apr;157(4):1439–40 (6 ref.)
Agenesis of the urinary bladder with cutaneous ectopic ureteric orifice and multiple birth defects. Bhagwat AD, et al. **Pediatr Surg Int** 1997;12(1):63–5
The megacystis–microcolon–intestinal hypoperistalsis syndrome: report of a case and review of the literature. Yigit S, et al. **Turk J Pediatr** 1996 Jan–Mar;38(1):137–41
Fetal megacystis at 10–14 weeks of gestation. Sebire NJ, et al. **Ultrasound Obstet Gynecol** 1996 Dec;8(6):387–90
[Fetal obstructive uropathies: prenatal diagnosis, prenatal and postnatal management] Di Meglio A, et al. **Pediatr Med Chir** 1997 Jan–Feb;19(1):11–4 (Eng. Abstr.) **(Ita)**
[2 of the multiple congenital defects of urogenital organs in girls] Karpenko VS. **Klin Khir** 1996;(8):47–8 **(Rus)**

ANATOMY & HISTOLOGY

Reliability and validity of stationary cystometry, stationary cysto–urethrometry and ambulatory cysto–urethro–vaginometry. Kulseng–Hanssen S. **Acta Obstet Gynecol Scand Suppl** 1997;166:33–8 (36 ref.)
Functional anatomy of the human ureterovesical junction. Roshani H, et al. **Anat Rec** 1996 Aug;245(4):645–51
Evaluating measurement variability in clinical investigations: the case of ultrasonic estimation of urinary bladder volume. Khan KS, et al. **Br J Obstet Gynaecol** 1997 Sep; 104(9):1036–42
Comparison of real–time ultrasonography and magnetic resonance imaging in the assessment of urinary bladder volume. Walton JM, et al. **Br J Urol** 1996 Dec;78(6):856–61
In vivo three–dimensional sonographic measurement of organ volume: validation in the urinary bladder. Riccabona M, et al. **J Ultrasound Med** 1996 Sep;15(9):627–32
Dynamic multi–planar EPI of the urinary bladder during voiding with simultaneous detrusor pressure measurement. Simmons A, et al. **Magn Reson Imaging** 1997;15(3):295–300
Cells and cell junctions in the muscle coat of the bladder. Gabella G. **Scand J Urol Nephrol Suppl** 1997;184:3–6 (11 ref.)
Anatomic basis of micturition and urinary continence. Muscle systems in urinary bladder neck during ageing. Rother P, et al. **Surg Radiol Anat** 1996;18(3):173–7
[In vitro study of morphology of the bladder wall using MR tomography at 1.0 Tesla: correlation with histology] Teufl F, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):406–10 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

Growth resistance–sized arteries in response to bladder hypertrophy in the rat: time–course, DNA–synthesis and LDH–isoform pattern. Boels PJ, et al. **Acta Physiol Scand** 1996 May;157(1):93–9
Leaky urothelium and/or vesical ischemia enable urinary potassium to cause idiopathic urgency/frequency syndrome and urge incontinence. Hohlbrugger G. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(5):242–55 (94 ref.)
Urinary bladder blood flow changes during the micturition cycle in a conscious pig model. Greenland JE, et al. **J Urol** 1996 Nov;156(5):1858–61
Effect of ischemia of the rabbit bladder on Ca–Mg–activated ATP–ase activity. Soyupak B, et al. **Neurourol Urodyn** 1996;15(6):666–71
Effect of ischemia and partial outflow obstruction on rat bladder function. Saito M, et al. **Urol Res** 1997;25(3):207–11

CHEMISTRY

The human P2x1 receptor: molecular cloning, tissue distribution, and localization to chromosome 17. Longhurst PA, et al. **Biochim Biophys Acta** 1996 Sep 11;1308(3):185–8
Localization of the FA–CHIP water channel in frog urinary bladder. Abrami L, et al. **Eur J Cell Biol** 1997 Jul; 73(3):215–21
Distribution of different neuropeptides in the rat urinary bladder. Ferrandino I, et al. **Eur J Histochem** 1996; 40(2):137–42
Stress urinary incontinence in women. II. Abnormalities of glycogenolysis in tissues related to the lower urinary tract. Jóźwik M Jr, et al. **Int Urol Nephrol** 1996;28(4):485–94
Radioligand binding, autoradiographic and functional studies demonstrate tachykinin NK–2 receptors in dog urinary bladder. Mussap CJ, et al. **J Pharmacol Exp Ther** 1996 Oct; 279(1):423–34
Determination of interferon–alpha receptors in urothelial cancer and in normal urothelium [see comments] Giannopoulos A, et al. **J Urol** 1997 Jan;157(1):79–82. Comment in: J Urol 1997 Jan;157(1):83–4.
Evaluation of smooth muscle and collagen subtypes in normal newborns and those with bladder exstrophy. Lee BR, et al. **J Urol** 1996 Dec;156(6):2034–6
Localization of mRNA and receptor binding sites for the alpha 1a–adrenoceptor subtype in the rat, monkey and human urinary bladder and prostate. Walden PD, et al. **J Urol** 1997 Mar;157(3):1032–8
Distribution and colocalization of calcitonin gene–related peptide, tachykinins, and vasoactive intestinal peptide in normal and idiopathic unstable human urinary bladder. Smet PJ, et al. **Lab Invest** 1997 Jul;77(1):37–49
Increase of p75 immunoreactivity in rat urinary bladder following inflammation. Wakabayashi Y, et al. **Neuroreport** 1996 Apr 26;7(6):1141–4
Comparison of adrenoceptor subtype expression in porcine and human bladder and prostate. Goepel M, et al. **Urol Res** 1997;25(3):199–206

CYTOLOGY

Immortalized human bladder cell line exhibits amiloride–sensitive sodium absorption. Perrone RD, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F148–53
Tight junction dynamics in the frog urinary bladder. Lacaz–Vieira F, et al. **Cell Adhes Commun** 1996 Jul; 4(1):53–68
The distinct steps of cell detachment during development of mouse uroepithelial cells in the bladder. Jezernik K, et al. **Cell Biol Int** 1997 Jan;21(1):1–6
Effects of polymyxin B on mammalian urinary bladder. Berg JR, et al. **J Membr Biol** 1996 Nov;154(2):119–30
Role of mesenchymal–epithelial interactions in normal bladder development. Baskin LS, et al. **J Urol** 1996 Nov; 156(5):1820–7
Decreased 3H–thymidine incorporation by human bladder epithelial cells following exposure to urine from interstitial cystitis patients. Keay S, et al. **J Urol** 1996 Dec; 156(6):2073–8
Increased cell proliferation of urothelium in rat bladder following unilateral nephrectomy. Li B, et al. **J Urol** 1997 Jul;158(1):265–8
Scales of urine acidification: apical membrane–associated particles in turtle bladder. Steinmetz PR, et al. **Kidney Int** 1996 Jun;49(6):1655–9 (15 ref.)
Desquamation of urinary bladder epithelial cells. Jezernik K. **Pflugers Arch** 1996;431(6 Suppl 2):R249–50
Growth and differentiation of urothelial cells in explant culture. Sterle M. **Pflugers Arch** 1996;431(6 Suppl 2):R245–6
Histological study of urinary bladder transplantation in rats. Takeuchi K, et al. **Transplantation** 1997 Apr 15;63(7):922–6
Preservation of bladder tissue in different solutions for varying times. Riehmann M, et al. **Urology** 1997 Jul; 50(1):142–9

DRUG EFFECTS

Influence of mesna on urotoxic effects of selected bromosubstituted analogs of ifosfamide. Kuśnierczyk H, et al. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):79–85
Drug metabolizing enzyme activities in porcine urinary bladder epithelial cell cultures (PUBEC). Guhe C, et al. **Arch Toxicol** 1996;70(10):599–606
Protection by indomethacin and aspirin against genotoxicity of ochratoxin A, particularly in the urinary bladder and kidney. Obrecht–Pflumio S, et al. **Arch Toxicol** 1996; 70(3–4):244–8
Neural 5–HT4 receptors in the human isolated detrusor muscle: effects of indole, benzimidazolone and substituted benzamide agonists and antagonists. Candura SM, et al. **Br J Pharmacol** 1996 Aug;118(8):1965–70
Evidence for the presence of cannabinoid CB1 receptors in mouse urinary bladder. Pertwee RG, et al. **Br J Pharmacol** 1996 Aug;118(8):2053–8
Combined intravenous and oral mesna in outpatients treated with ifosfamide. Goren MP, et al. **Cancer Chemother Pharmacol** 1997;40(5):371–5
Agents for the treatment of overactive detrusor. V. Synthesis and inhibitory activity on detrusor contraction of N–tert–butyl–4,4–diphenyl–2–cyclopentenylamine. Take K, et al. **Chem Pharm Bull (Tokyo)** 1996 Oct;44(10):1858–64
On the mechanism of the differential effects of NS004 and NS1608 in smooth muscle cells from guinea pig bladder. Hu S, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):461–8
Tolterodine—a new bladder–selective antimuscarinic agent. Nilvebrant L, et al. **Eur J Pharmacol** 1997 May 30; 327(2–3):195–207
The effect of NG–monomethyl–L–arginine on bladder function. Theobald RJ Jr. **Eur J Pharmacol** 1996 Sep 5; 311(1):73–8
The ecto–ATPase inhibitor ARL 67156 enhances parasympathetic neurotransmission in the guinea–pig urinary bladder. Westfall TD, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):169–73
Mechanistic studies on genotoxicity and carcinogenicity of salicylazosulfapyridine an anti–inflammatory medicine. Iatropoulos MJ, et al. **Exp Toxicol Pathol** 1997 Feb; 49(1–2):15–28
The effects of 4–chloro–ortho–toluidine (fast red TR) subacute intoxication on rats. Part I: The kidney and the urinary bladder epithelium. Godlewski A, et al. **Folia Morphol (Warsz)** 1996;55(4):253–5
The NK1 antagonist GR203040 inhibits cyclophosphamide–induced damage in the rat and ferret bladder. Alfieri A, et al. **Gen Pharmacol** 1997 Aug; 29(2):245–50
The effects of lithium, indomethacin, and neomycin on vasopressin–induced contractions in rat urinary bladder. Dehpour AR, et al. **Gen Pharmacol** 1997 May;28(5):777–80
Effect of alpha 1–adrenoceptor antagonists on urinary bladder function in urethane–anesthetized rats. Sudoh K, et al. **Gen Pharmacol** 1997 Apr;28(4):521–4
Contractile responses and calcium mobilization induced by muscarinic agonists in the rat urinary bladder: effects of age. Yu HI, et al. **Gen Pharmacol** 1997 Apr;28(4):623–8
Mechanisms of the suppression of the bladder activity by flavoxate. Kimura Y, et al. **Int J Urol** 1996 May;3(3):218–27
Effects of alterations in potassium and calcium concentrations on the pressure generated in rat whole bladder in vitro. Saito M, et al. **Int J Urol** 1996 Nov;3(6):478–83
Effect of several bicyclic peptide and cyclic pseudopeptide tachykinin NK2 receptor antagonists in the human isolated urinary bladder. Giuliani S, et al. **J Auton Pharmacol** 1996 Oct;16(5):251–9
Pharmacological characterization of the muscarinic receptor subtypes responsible for the contractile response in the rat urinary bladder. Tong YC, et al. **J Auton Pharmacol** 1997 Feb;17(1):21–5
Effect of mineral oil on porcine urothelium. McDougall EM, et al. **J Endourol** 1997 Jun;11(3):177–9
Capsaicin inhibits detrusor contractility but not the micturition reflex in capsaicin–desensitized rats. Kuo HC. **J Formos Med Assoc** 1997 Sep;96(9):691–6
N–arylpiperazinyl–N'–propylamino derivatives of heteroaryl amides as functional uroselective alpha 1–adrenoceptor antagonists. Elworthy TR, et al. **J Med Chem** 1997 Aug 15;40(17):2674–87
Modulation of ATP–sensitive and large–conductance Ca++–activated K+ channels by Zeneca ZD6169 in guinea pig bladder smooth muscle cells. Hu S, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):38–45
Effect of octreotide, a somatostatin analogue, on release of inflammatory mediators from isolated guinea pig bladder. Bjorling DE, et al. **J Urol** 1997 Jul;158(1):258–64
Desensitization of bladder sensory fibers by intravesical capsaicin has long lasting clinical and urodynamic effects in patients with hyperactive or hypersensitive bladder dysfunction. Cruz F, et al. **J Urol** 1997 Feb;157(2):585–9
Effects of tadenan pretreatment on bladder physiology and

biochemistry following partial outlet obstruction. Levin RM, et al. **J Urol** 1996 Dec;156(6):2084–8

Comparison of oxybutynin and its active metabolite, N–desethyl–oxybutynin, in the human detrusor and parotid gland. Waldeck K, et al. **J Urol** 1997 Mar;157(3):1093–7

Modulation of detrusor contraction strength and micturition characteristics by intrathecal baclofen in anesthetized rats. Watanabe T, et al. **J Urol** 1997 Jun;157(6):2361–5

Effects of ethanol on in vivo cystometry and in vitro whole bladder contractility in the rat. Yokoi K, et al. **J Urol** 1996 Oct;156(4):1489–91

Effects of ONO–2235, an aldose reductase inhibitor, on muscarinic receptors and contractile response of the urinary bladder in rats with streptozotocin–induced diabetes. Kanda M, et al. **Jpn J Pharmacol** 1997 Mar;73(3):221–8

Tolterodine––a new bladder selective muscarinic receptor antagonist: preclinical pharmacological and clinical data. Nilvebrant L, et al. **Life Sci** 1997;60(13–14):1129–36 (26 ref.)

The effect of ovariectomy on the contractile response of the rat isolated detrusor muscle and urethra. Palea S, et al. **Life Sci** 1997;61(1):PL21–6

Stimulation of bladder activity by volume, L–dopa and capsaicin in normal conscious rats––effects of spinal alpha 1–adrenoceptor blockade. Ishizuka O, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):787–93

MEN 11,420, a peptide tachykinin NK2 receptor antagonist, reduces motor responses induced by the intravesical administration of capsaicin in vivo. Lecci A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):182–8

The effects of uranyl ions on neuromuscular transmission in the urinary bladder of the normal and streptozotocin–diabetic mouse. Liu SH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):773–8

Evidence of P2Y–purinoceptor mediated bladder neck smooth muscle post–contractile relaxation in the male mini–pig. Tong YC, et al. **Neurosci Lett** 1997 Apr 11; 225(3):181–4

Functional, biochemical and anatomical changes in the rat urinary bladder induced by periganglíar injection of colchicine. Lecci A, et al. **Neuroscience** 1996 Mar; 71(1):285–96

Effects of spinal alpha 1–adrenoceptor antagonism on bladder activity induced by apomorphine in conscious rats with and without bladder outlet obstruction. Ishizuka O, et al. **Neurourol Urodyn** 1997;16(3):191–200

Age–related differential susceptibility to calcium channel blocker and low calcium medium in rat detrusor muscle: response to field stimulation. Yu HJ, et al. **Neurourol Urodyn** 1996;15(5):563–76

Comparative effects of intravesical versus extravesical administration of ZD6169 and cromakalim on the response of the in vitro rat whole bladder to field stimulation. Chun A, et al. **Pharmacology** 1996 Jun;52(6):347–52

Physiological effects of a novel bioactive agent. Hass MA, et al. **Pharmacology** 1996 Nov;53(5):320–7

Zeneca ZD6169 activates ATP–sensitive K+ channels in the urinary bladder of the guinea pig. Heppner TJ, et al. **Pharmacology** 1996 Sep;53(3):170–9

Effect of thapsigargin on the contractile response of the normal and obstructed rabbit urinary bladder. Rohrmann D, et al. **Pharmacology** 1996 Feb;52(2):119–24

Prevention and treatment of hemorrhagic cystitis. West NJ. **Pharmacotherapy** 1997 Jul–Aug;17(4):696–706 (79 ref.)

A comparison of functional bladder damage after intravesical photodynamic therapy with three different photosensitizers. Post JG, et al. **Photochem Photobiol** 1996 Mar;63(3):314–21

Comparative study of the effects of capsaicin on the contractility of normal and spinal cord injured human bladders. Kuo HC. **Proc Natl Sci Counc Repub China B** 1997 Jan;21(1):13–9

Acute contractile effects of epidermal growth factor on bladder smooth muscles. An in vivo and in vitro study in rats. Vinter–Jensen L, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):231–5

2–Aminofluorene–DNA adduct levels in tumor–target and nontarget organs of rapid and slow acetylator Syrian hamsters congenic at the NAT2 locus. Feng Y, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):248–55

Examination of lesions in the urinary bladder and kidney of dogs induced by nefiracetam, a new nootropic agent. Kashida Y, et al. **Toxicol Pathol** 1996 Sep–Oct;24(5):549–57

Promoting effect of monosodium aspartate, but not glycine, on renal pelvis and urinary bladder carcinogenesis in rat induced by N–butyl–N–(4–hydroxybutyl)nitrosamine. Kitamura M, et al. **Toxicol Pathol** 1996 Sep–Oct; 24(5):573–9

Urinary bladder function and drug development [see comments] Ferguson D, et al. **Trends Pharmacol Sci** 1996 Apr;17(4):161–5 (60 ref.). Comment in: Trends Pharmacol Sci 1996 Sep;17(9):314–6.

Effects of capsaicin on detrusor contractility of rats: an in vivo and isolated whole bladder study. Kuo HC. **Urol Int** 1996;57(1):51–7

Effect of magnesium on the contraction of whole rabbit bladder in vitro. Saito M, et al. **Urol Int** 1996;57(3):141–4

Contractile and cytoskeletal proteins in urinary bladder smooth muscle from rats treated with epidermal growth factor. Vinte–Jensen L, et al. **Urol Res** 1996;24(4):229–34

Localization of zinc and metallothionein in the rat bladder epithelium during carcinogenesis induced by N–butyl–N–(4–hydroxybutyl) nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(5):279–83

Modulation of feline bladder and distal urethral responses to dorsal sacral root stimulation by intrathecal administration of a kappa 1–opioid agonist. Abdelmagid ME, et al. **Urology** 1997 May;49(5):802–7

[Effects of gosha–jinki–gan on urinary bladder contraction in dogs] Suzuki T, et al. **Hinyokika Kiyo** 1997 Apr; 43(4):271–4 (Eng. Abstr.) **(Jpn)**

[Effects of Gosha–Jinki–Gan on the function of the urinary bladder in anesthetized dogs] Suzuki T, et al. **Hinyokika Kiyo** 1996 Dec;42(12):951–5 (Eng. Abstr.) **(Jpn)**

[Effect of vasopressin on the hyaluronate hydrolase system in the amphibian bladder] Ivanova LN, et al. **Dokl Akad Nauk** 1997 Apr;353(5):687–9 **(Rus)**

[Intravesical oxybutynin in children with meningomyelocele. Efficient treatment with few side–effects] Von Zweigbergk M, et al. **Lakartidningen** 1996 Oct 9;93(41):3573–6 **(Swe)**

EMBRYOLOGY

Ontogeny of the rat bladder: smooth muscle and epithelial differentiation. Baskin LS, et al. **Acta Anat (Basel)** 1996; 155(3):163–71

Isolation of a developmentally–regulated expressed sequence tag from bladder tissue using the mRNA differential display. Chaqour B, et al. **Biochem Mol Biol Int** 1996 Nov; 40(5):1011–6

Bladder visualisation as a prognostic sign in oligohydramnios–polyhydramnios sequence in twin pregnancies treated using therapeutic amniocentesis. Kilby MD, et al. **Br J Obstet Gynaecol** 1997 Aug;104(8):939–42

The distinct steps of cell detachment during development of mouse uroepithelial cells in the bladder. Jezernik K, et al. **Cell Biol Int** 1997 Jan;21(1):1–6

Role of mesenchymal–epithelial interactions in normal bladder development. Baskin LS, et al. **J Urol** 1996 Nov; 156(5):1820–7

Active and passive compliance of the fetal bovine bladder. Dean GE, et al. **J Urol** 1997 Sep;158(3 Pt 2):1094–9

Developmental expression of interstitial collagen genes in fetal bladders. Koo HP, et al. **J Urol** 1997 Sep;158(3 Pt 1):954–61

Compliance of the obstructed fetal rabbit bladder. Rohrmann D, et al. **Neurourol Urodyn** 1997;16(3):179–89

Transvaginal sonographic assessment of the fetal urinary tract in early pregnancy. Rosati P, et al. **Ultrasound Obstet Gynecol** 1996 Feb;7(2):95–100

ENZYMOLOGY

Drug metabolizing enzyme activities in porcine urinary bladder epithelial cell cultures (PUBEC). Guhe C, et al. **Arch Toxicol** 1996;70(10):599–606

Tumor–derived hyaluronidase: a diagnostic urine marker for high–grade bladder cancer. Pham HT, et al. **Cancer Res** 1997 Feb 15;57(4):778–83

Vasopressin stimulates translocation of protein kinase C in the toad urinary bladder. Sulimovici S, et al. **Exp Nephrol** 1996 May–Jun;4(3):159–65

Vacuolar–type H(+)–ATPase in mouse bladder epithelium is responsible for urinary acidification. Tomochika K, et al. **FEBS Lett** 1997 Mar 3;404(1):61–4

Immunochemical detection of arylamine N–acetyltransferase in normal and neoplastic bladder. Stanley LA, et al. **J Histochem Cytochem** 1996 Sep;44(9):1059–67

Effects of acute complete outlet obstruction on the NADPH–diaphorase reactivity in the intramural ganglia of the guinea pig urinary bladder: light and electron microscopic studies. Zhou Y, et al. **J Urol** 1997 Sep;158(3 Pt 1):916–23

Substance P(6–11) and natural tachykinins interact with septide–sensitive tachykinin receptors coupled to a phospholipase C in the rat urinary bladder. Torrens Y, et al. **Neuropeptides** 1997 Jun;31(3):243–51

Distribution of nitric oxide synthase–immunoreactive nerves and identification of the cellular targets of nitric oxide in guinea–pig and human urinary bladder by cGMP immunohistochemistry. Smet PJ, et al. **Neuroscience** 1996 Mar;71(2):337–48

Properties of Ca2(+)–Mg2+ ATP–ase in rabbit bladder muscle and mucosa: effect of urinary outlet obstruction. Haugaard N, et al. **Neurourol Urodyn** 1996;15(5):555–61

The role of type IV collagenases in rat bladder development and obstruction. Sutherland RS, et al. **Pediatr Res** 1997 Mar;41(3):430–4

Cyclic nucleotide phosphodiesterase (PDE) isoenzymes in the human detrusor smooth muscle. I. Identification and characterization. Truss MC, et al. **Urol Res** 1996; 24(3):123–8

Cyclic nucleotide phosphodiesterase (PDE) isoenzymes in the human detrusor smooth muscle. II. Effect of various PDE inhibitors on smooth muscle tone and cyclic nucleotide levels in vitro. Truss MC, et al. **Urol Res** 1996; 24(3):129–34

GROWTH & DEVELOPMENT

Ontogeny of the rat bladder: smooth muscle and epithelial differentiation. Baskin LS, et al. **Acta Anat (Basel)** 1996; 155(3):163–71

Heparin–binding EGF–like growth factor is an autocrine growth factor for human urothelial cells and is synthesized by epithelial and smooth muscle cells in the human bladder. Freeman MR, et al. **J Clin Invest** 1997 Mar 1;99(5):1028–36

Time–dependent remodeling of the bladder wall in growing rabbits after partial outlet obstruction. Pampinella F, et al. **J Urol** 1997 Feb;157(2):677–82

Decrease and disappearance of intramural neurons in the rat bladder during post–natal development. Alian M, et al. **Neurosci Lett** 1996 Nov 1;218(2):103–6

IMMUNOLOGY

Use of gold–labeled ovalbumin to correlate antigen deposition and localization with tissue response. Tengowski MW, et al. **J Pharmacol Toxicol Methods** 1997 Feb; 37(1):15–21

Effect of octreotide, a somatostatin analogue, on release of inflammatory mediators from isolated guinea pig bladder. Bjorling DE, et al. **J Urol** 1997 Jul;158(1):258–64

Human anti–IgE monoclonal antibody blocks passive sensitization of human and rhesus monkey bladder. Saban R, et al. **J Urol** 1997 Feb;157(2):689–93

INJURIES

Intrauterine device––primary and secondary perforation of the urinary bladder. Bjørnerem A, et al. **Acta Obstet Gynecol Scand** 1997 Apr;76(4):383–5

Extraperitoneal bladder rupture: pitfall in CT cystography [clinical–conference] Scott MH, et al. **AJR Am J Roentgenol** 1997 May;168(5):1232

Uroperitoneum associated with ruptured urinary bladder in a postpartum mare. Jones PA, et al. **Aust Vet J** 1996 Nov; 74(5):354–8

Urinary tract injuries during obstetric intervention. Rajasekar D, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):731–4

Bladder rupture caused by an intravenous urogram. Meganathan V, et al. **Br J Urol** 1997 May;79(5):811–2

Imperforate hymen as a cause of bladder perforation and intestinal obstruction. Tuncer R, et al. **Br J Urol** 1997 Jun; 79(6):993–4

Obstetrical hysterectomy and placenta previa/accreta: three bladder injury case reports. Chung CL, et al. **Chang Keng I Hsueh** 1997 Mar;20(1):44–51

Neonatal bladder rupture: an unusual complication of umbilical catheterization. Sayan A, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):378–9

Gaseous distention of the urinary bag indicating bladder perforation during laparoscopic pelvic procedures. Ho AM, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):297–8

Transvaginal repair of bladder lacerations during LAVH. Quinlan DJ, et al. **J Am Assoc Gynecol Laparosc** 1995 Nov; 3(1):103–7

Laparoscopic repair of bladder injury and laceration. Taskin O, et al. **J Am Assoc Gynecol Laparosc** 1995 Feb;2(2):227–9

Spontaneous expulsion of an intravesical bullet. DiDomenico D, et al. **J Am Osteopath Assoc** 1997 Jul;97(7):415–6

What is your diagnosis? Ruptured bladder with uroperitoneum. Worth LT, et al. **J Am Vet Med Assoc** 1997 Jun 1;210(11):1601–2

Entrapment of the bladder in an acetabular fracture. A case report. McKee MD, et al. **J Bone Joint Surg Am** 1997 Jan; 79(1):113–7

Extraperitoneal cystotomy after laparoscopy. A case report. Pelosi MA 3rd, et al. **J Reprod Med** 1996 Dec;41(12):911–4

Internal fixation in pelvic fractures and primary repairs of associated genitourinary disruptions: a team approach [letter; comment] McKee MD. **J Trauma** 1997 May; 42(5):981. Comment on: J Trauma 1996 May;40(5):784–90.

Laparoscopic management of intentional and unintentional cystotomy [see comments] Nezhat CH, et al. **J Urol** 1996 Oct;156(4):1400–2. Comment in: J Urol 1996 Oct;156(4):1411.

Inadvertent placement of a Tenckhoff catheter into the urinary bladder. Moreiras M, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):818–20

Laplace's law and the risks and prevention of bladder rupture after enterocystoplasty and bladder autoaugmentation. Chancellor MB, et al. **Neurourol Urodyn** 1996;15(3):223–33 (19 ref.)

Management of pelvic fractures with concomitant urologic injuries. Taffet R. **Orthop Clin North Am** 1997 Jul; 28(3):389–96 (47 ref.)

Penetration of the bladder by a perforating intrauterine contraceptive device: a sonographic diagnosis. Caspi B, et al. **Ultrasound Obstet Gynecol** 1996 Jun;7(6):458–60

Laparoscopic repair of traumatic intraperitoneal bladder rupture. Iselin CE, et al. **Urol Int** 1996;57(2):119–21

Medical management of iatrogenic rents in the wall of the feline urinary bladder. Osborne CA, et al. **Vet Clin North Am Small Anim Pract** 1996 May; 26(3):551–62 (6 ref.)

[Traumatic rupture of the bladder. Apropos of 26 cases] Rambeaud JJ, et al. **Chirurgie** 1996;121(5):363–6 (Eng. Abstr.) **(Fre)**

[Urinary complications during laparoscopy: a urachal diverticula injury] Darmon JC, et al. **Contracept Fertil Sex** 1997 May;25(5):385–8 (Eng. Abstr.) **(Fre)**

[Labor–induced bladder injuries: historical observations] Kremling H. **Gynakol Geburtshilfliche Rundsch** 1996;

36(4):197–200 (Eng. Abstr.) **(Ger)**

[Clinical studies on lower urinary tract injury] Tanaka M, et al. **Hinyokika Kiyo** 1997 Jan;43(1):7–12 (Eng. Abstr.) **(Jpn)**

[Aspiration pneumonia during the endotracheal intubation on the occasion of bladder perforation by TUR] Fukuhara H, et al. **Masui** 1997 Mar;46(3):384–7 (Eng. Abstr.) **(Jpn)**

[Pneumoperitoneum in bladder rupture] Félix M, et al. **Acta Med Port** 1997 Feb–Mar;10(2–3):217–9 (10 ref.) (Eng. Abstr.) **(Por)**

INNERVATION

Clinical neurophysiological methods for investigating the lower urinary tract in patients with micturition disorders. Flink R. **Acta Obstet Gynecol Scand Suppl** 1997;166:50–8 (57 ref.)

Modification of urinary bladder function after spinal cord injury. de Groat WC, et al. **Adv Neurol** 1997;72:347–64 (65 ref.)

Neurophysiological modeling of voiding in rats: bladder pressure and postganglionic bladder nerve activity. Le Feber J, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R413–21

Pressure, volume, and chemosensitivity in afferent innervation of urinary bladder in rats. Moss NG, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R695–703

Micturition in conscious rats with and without bladder outlet obstruction: role of spinal alpha 1–adrenoceptors. Ishizuka O, et al. **Br J Pharmacol** 1996 Mar;117(5):962–6

Flexible cystoscopic biopsies for evaluation of nerve densities in the suburothelium of the human urinary bladder. Dasgupta P, et al. **Br J Urol** 1997 Sep;80(3):490–2

Neurostimulation for bladder evacuation: is sacral root stimulation a substitute for microstimulation? Probst M, et al. **Br J Urol** 1997 Apr;79(4):554–66

Increased expression of neuronal nitric oxide synthase in bladder afferent and spinal neurons following spinal cord injury. Vizzard MA. **Dev Neurosci** 1997;19(3):232–46

Activation by cutaneous or visceral noxious stimulation of spinal neurons projecting to the medullary dorsal reticular nucleus in the rat: a c-fos study. Almeida A, et al. **Eur J Neurosci** 1997 Apr;9(4):686–95

Surface localization of sacral foramina for neuromodulation of bladder function. An anatomical study. Hasan ST, et al. **Eur Urol** 1996;29(1):90–8

Urinary bladder response to hypogastric nerve stimulation after bilateral resection of the pelvic nerve or spinal cord injury in rats. Kontani H, et al. **Int J Urol** 1997 Jul; 4(4):394–400

Age-associated changes in detrusor sensory function in women with lower urinary tract symptoms. Collas DM, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(1):24–9

A double-label immunohistochemical study of intramural ganglia from the human male urinary bladder neck. Dixon JS, et al. **J Anat** 1997 Jan;190 (Pt 1):125–34

Distribution of NADPH-diaphorase and nitric oxide synthase-containing neurons in the intramural ganglia of guinea pig urinary bladder. Zhou Y, et al. **J Anat** 1997 Jan;190 (Pt 1):135–45

Expression of neuropeptides and nitric oxide synthase in neurones innervating the inflamed rat urinary bladder. Callsen-Cencic P, et al. **J Auton Nerv Syst** 1997 Jul 14; 65(1):33–44

Sympathetic efferent pathways projecting to the bladder neck and proximal urethra in the rat. Kihara K, et al. **J Auton Nerv Syst** 1997 Feb 17;62(3):134–42

Increased expression of neuronal nitric oxide synthase in bladder afferent pathways following chronic bladder irritation. Vizzard MA, et al. **J Comp Neurol** 1996 Jun 24; 370(2):191–202

CNS innervation of the urinary bladder demonstrated by immunohistochemical study for c-fos and pseudorabies virus. Park M, et al. **J Korean Med Sci** 1997 Aug; 12(4):340–52

Effects of opioids on mechanosensitive pelvic nerve afferent fibers innervating the urinary bladder of the bat. Su X, et al. **J Neurophysiol** 1997 Mar;77(3):1566–80

Multiple subtypes of voltage-gated calcium channel mediate transmitter release from parasympathetic neurons in the mouse bladder. Waterman SA. **J Neurosci** 1996 Jul 1; 16(13):4155–61

Anatomy of the nerve supply of the rectum, bladder, and internal genitalia in anorectal dysgenesis in the male. Davies MR. **J Pediatr Surg** 1997 Apr;32(4):536–41

Terminal nerve distribution to the urethra and bladder neck: considerations in the management of stress urinary incontinence. Ball TP Jr, et al. **J Urol** 1997 Sep;158(3 Pt 1):827–9

Re: Modified Ingelman-Sundberg bladder denervation procedure for intractable urge incontinence [letter; comment] Batista JE, et al. **J Urol** 1997 Sep;158(3 Pt 1):888 . Comment on: J Urol 1996 Nov;156(5):1744–7.

Modified Ingelman-Sundberg bladder denervation procedure for intractable urge incontinence [see comments] Cespedes RD, et al. **J Urol** 1996 Nov;156(5):1744–7. Comment in: J Urol 1997 Sep;158(3 Pt 1):888.

Radiation-induced changes in neuropeptides in the rat urinary bladder. Crowe R, et al. **J Urol** 1996 Dec; 156(6):2062–6

Desensitization of bladder sensory fibers by intravesical capsaicin has long lasting clinical and urodynamic effects in patients with hyperactive or hypersensitive bladder dysfunction. Cruz F, et al. **J Urol** 1997 Feb;157(2):585–9

The effect of anoxia and glucose-free solutions on the contractile response of guinea-pig detrusor strips to intrinsic nerve stimulation and the application of excitatory agonists. Pessina F, et al. **J Urol** 1997 Jun;157(6):2375–80

Effects of acute complete outlet obstruction on the NADPH-diaphorase reactivity in the intramural ganglia of the guinea pig urinary bladder: light and electron microscopic studies. Zhou Y, et al. **J Urol** 1997 Sep;158(3 Pt 1):916–23

Ultrastructural evidence for a direct pathway from the pontine micturition center to the parasympathetic preganglionic motoneurons of the bladder of the cat. Blok BF, et al. **Neurosci Lett** 1997 Feb 7;222(3):195–8

Vesico-sympathetic reflexes in cat vasoconstrictor neurones supplying skin and skeletal muscle depend on the integrity of the sacral bladder afferents. Michaelis M, et al. **Neurosci Lett** 1996 Nov 22;219(2):99–102

Afferent and efferent branching axons from the rat lumbo-sacral spinal cord project both to the urinary bladder and the urethra as demonstrated by double retrograde neuronal labeling. Russo A, et al. **Neurosci Lett** 1996 Nov 29;219(3):155–8

Distribution of nitric oxide synthase-immunoreactive nerves and identification of the cellular targets of nitric oxide in guinea-pig and human urinary bladder by cGMP immunohistochemistry. Smet PJ, et al. **Neuroscience** 1996 Mar;71(2):337–48

Desensitization follows excitation of bladder primary afferents by intravesical capsaicin, as shown by c-fos activation in the rat spinal cord. Cruz F, et al. **Pain** 1996 Mar;64(3):553–7

Sensitisation of visceral afferents by nerve growth factor in the adult rat. Dmitrieva N, et al. **Pain** 1996 Jul;66(1):87–97

Correlation of cystographic bladder morphology and neuroanatomy in boys with posterior urethral valves. Bloom DA, et al. **Pediatr Radiol** 1997 Jun;27(6):553–6

Characterization of laterality of innervation of the rat bladder. Chai TC, et al. **Scand J Urol Nephrol Suppl** 1996; 179:87–92

Autonomic hyperreflexia revisited. Schurch B, et al. **Urol Int** 1997;58(3):148–52

Denervation and outlet obstruction induce a net synthesis of contractile and cytoskeletal proteins in the urinary bladder of the male rat. Berggren T, et al. **Urol Res** 1996; 24(3):135–40

[Functional rehabilitation of the urinary bladder after transection of cauda equina] Liu Z, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):719–22 (Eng. Abstr.) **(Chi)**

[Anal sphincter electromyography, bulbocavernosus reflex and pudendal somatosensory evoked potentials in diagnosis of neurogenic lumbosacral lesions with disorders of bladder and large intestine emptying and erectile dysfunction] Ziemann U, et al. **Nervenarzt** 1996 Feb;67(2):140–6 (Eng. Abstr.) **(Ger)**

[Electromyography of the sphincter vesicae externus muscle. Technique, indications and outcome] Jost WH, et al. **Urologe A** 1997 Jul;36(4):356–61 (Eng. Abstr.) **(Ger)**

[The morphophysiological restructuring of the sensory bushy receptor of the frog bladder under the influence of colchicine] Zamuraev IN, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):30–4 (Eng. Abstr.) **(Rus)**

METABOLISM

The urinary bladder angiotensin system: response to infusions of angiotensin I and angiotensin-converting enzyme inhibitors. Weaver-Osterholtz D, et al. **Am J Kidney Dis** 1996 Oct;28(4):603–9

IGF-binding protein-2 is induced during development of urinary bladder hypertrophy in the diabetic rat. Chen Y, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E297–303

Progesterone inhibition of water permeability in Bufo arenarum oocytes and urinary bladder. Ford P, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F880–5

Role of NMDA and AMPA glutamatergic transmission in spinal c-fos expression after urinary tract irritation. Kakizaki H, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R990–6

cDNA cloning of a functional water channel from toad urinary bladder epithelium. Ma T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1699–704

Permeability properties of the intact mammalian bladder epithelium. Negrete HO, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F886–94

Immortalized human bladder cell line exhibits amiloride-sensitive sodium absorption. Perrone RD, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F148–53

Dysregulated proteolytic balance as the basis of excess extracellular matrix in fibrotic disease. Peters CA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1960–5

Effects of A-23187 and verapamil on the active transport enzymes in turtle bladder epithelial cells. Sabatini S. **Am J Physiol** 1997 May;272(5 Pt 2):R1379–89

Cloning of an aquaporin homologue present in water channel containing endosomes of toad urinary bladder. Siner J, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C372–81

Buffering of plasmalemmal Ca2+ current by sarcoplasmic reticulum of guinea pig urinary bladder myocytes. Yoshikawa A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C833–41

Drug retention following intravesical delivery of fluorouracil therapeutic adhesive in C3H mouse bladder. Singh SS, et al. **Anticancer Drugs** 1996 Jul;7(5):507–13

Studies of the K(ATP) channel opening activity of the new dihydropyridine compound 9-(3-cyanophenyl)-3,4,6,7,9,10-hexahydro-1,8-(2H,5H)-acridined ione in bladder detrusor in vitro. Li JH, et al. **Arzneimittelforschung** 1996 May;46(5):525–30

Role of prostaglandin E2 in regulation of low and high water osmotic permeability in frog urinary bladder. Parnova RG, et al. **Biochim Biophys Acta** 1997 Apr 24;1356(2):160–70

Pharmacological characterization of the inwardly-rectifying current in the smooth muscle cells of the rat bladder. Green ME, et al. **Br J Pharmacol** 1996 Dec;119(8):1509–18

The binding characteristics of a human bladder recombinant P2X purinoceptor, labelled with [3H]-alpha beta meATP, [35S]-ATP gamma S or [33P]-ATP. Michel AD, et al. **Br J Pharmacol** 1996 Mar;117(6):1254–60

Characterization of angiotensin II formation in human isolated bladder by selective inhibitors of ACE and human chymase: a functional and biochemical study. Waldeck K, et al. **Br J Pharmacol** 1997 Jul;121(6):1081–6

Spontaneously released substance P and bradykinin from isolated guinea-pig bladder. Saban R, et al. **Br J Urol** 1997 Apr;79(4):516–24

Expression of platelet-derived endothelial cell growth factor in bladder carcinoma. Mizutani Y, et al. **Cancer** 1997 Mar 15;79(6):1190–4

Bladder tissue pharmacokinetics of intravesical taxol. Song D, et al. **Cancer Chemother Pharmacol** 1997;40(4):285–92

p53 protein expression and increased SSCP mobility shifts in the p53 gene in normal urothelium cultured from smokers. Mothersill C, et al. **Carcinogenesis** 1997 Jun; 18(6):1241–5

Vesico-hepato-renal cycling of acidic drugs via their reactive acyl glucuronide metabolites? Studies with diflunisal in rats. Dickinson RG, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):665–8

Glycine irrigant absorption syndrome following cystoscopy [letter] Siddiqui MA, et al. **Clin Nephrol** 1996 May; 45(5):365–6

Rapid transit of tracer to the kidneys and urinary bladder in radionuclide cisternography. A sign of CSF leak. Halkar R, et al. **Clin Nucl Med** 1997 Feb;22(2):121–3

Ammonia transport by the urinary bladder of Bufo marinus. Melton LB, et al. **Comp Biochem Physiol A Physiol** 1996 Oct;115(2):153–8

Ca2+ mobilization in cultured human bladder smooth muscle cells in response to hypotonic stimuli. Chambers P, et al. **Exp Physiol** 1997 Jul;82(4):677–86

Characterization and autoradiographic localization of [3H] alpha,beta-methylene ATP binding sites in cat urinary bladder. Zhao M, et al. **Gen Pharmacol** 1996 Apr; 27(3):509–12

Studies on the movement of water through the isolated toad bladder and its modification by vasopressin. 1962 [classical article] Hays RM, et al. **J Am Soc Nephrol** 1997 Jun; 8(6):1005–15

Expression of neuropeptides and nitric oxide synthase in neurones innervating the inflamed rat urinary bladder. Callsen-Cencic P, et al. **J Auton Nerv Syst** 1997 Jul 14; 65(1):33–44

Muscarinic receptor subtypes in the submandibular gland and the urinary bladder of the rabbit: in vivo and in vitro functional comparisons of receptor antagonists. Tobin G. **J Auton Pharmacol** 1995 Dec;15(6):451–63

Heparin-binding EGF-like growth factor is an autocrine growth factor for human urothelial cells and is synthesized by epithelial and smooth muscle cells in the human bladder. Freeman MR, et al. **J Clin Invest** 1997 Mar 1;99(5):1028–36

QSAR analysis of membrane permeability to organic compounds. Ren S, et al. **J Drug Target** 1996;4(2):103–7

The importance of fluorescence distribution and kinetics of ALA-induced PpIX in the bladder in photodynamic therapy. Grönlund-Pakkanen S, et al. **J Photochem Photobiol B** 1997 Apr;38(2–3):269–73

In vivo fluorescence kinetics of porphyrins following intravesical instillation of 5-aminolaevulinic acid in normal and tumour-bearing rat bladders. Heil P, et al. **J Photochem Photobiol B** 1997 Apr;38(2–3):158–63

Role of L- and N-type Ca2+ channels in muscarinic receptor-mediated facilitation of ACh and noradrenaline release in the rat urinary bladder. Somogyi GT, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):645–54

M1 muscarinic receptor-induced facilitation of ACh and noradrenaline release in the rat bladder is mediated by protein kinase C. Somogyi GT, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):245–54

Seromuscular colocystoplasty lined with urothelium protects dogs from acidosis during ammonium chloride loading. Denes ED, et al. **J Urol** 1997 Sep;158(3 Pt 2):1075–80

Electromotive administration of oxybutynin into the human bladder wall. Di Stasi SM, et al. **J Urol** 1997 Jul; 158(1):228–33

Decreased 3H-thymidine incorporation by human bladder epithelial cells following exposure to urine from interstitial cystitis patients. Keay S, et al. **J Urol** 1996 Dec; 156(6):2073–8

Developmental expression of interstitial collagen genes in fetal bladders. Koo HP, et al. **J Urol** 1997 Sep;158(3 Pt 1):954–61

Neurokinin induced inositol phosphate production in guinea

pig bladder. Martin TV, et al. **J Urol** 1997 Mar; 157(3):1098–102

Comparison of oxybutynin and its active metabolite, N–desethyl–oxybutynin, in the human detrusor and parotid gland. Waldeck K, et al. **J Urol** 1997 Mar;157(3):1093–7

5–Aminolevulinic acid (ALA)–induced protoporphyrin IX fluorescence and photodynamic effects in the rat bladder: an in vivo study comparing oral and intravesical ALA administration. Chang SC, et al. **Lasers Surg Med** 1997; 20(3):254–64

Frogs reabsorb glucose from urinary bladder [letter] Costanzo JP, et al. **Nature** 1997 Sep 25;389(6649):343–4

Comparisons of neurotransmitter concentrations in the synaptosomal preparation of the normotensive and hypertensive rat urinary bladder. Tong YC, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):141–3

Effect of partial outlet obstruction on 14C–adenine incorporation in the rabbit urinary bladder. Hypolite JA, et al. **Neurourol Urodyn** 1997;16(3):201–8

Decrease in intravesical saline volume during isovolumetric cystometry in the rat. Sugaya K, et al. **Neurourol Urodyn** 1997;16(2):125–32

Interleukin–1 alpha and interleukin–6 in the urine, kidney, and bladder of mice inoculated with Escherichia coli. Tullus K, et al. **Pediatr Nephrol** 1996 Aug;10(4):453–7

AVP–independent high osmotic water permeability of frog urinary bladder and autacoids. Natochin YV, et al. **Pflugers Arch** 1996 Nov–Dec;433(1–2):136–45

Characterization and chromosomal localization of a human P2X receptor from the urinary bladder. Valera S, et al. **Receptors Channels** 1995;3(4):283–9

Uptake and intracellular distribution of idarubicin in secondary cultures of normal and neoplastic urothelium. De Angeli S, et al. **Urol Res** 1997;25(2):125–30

Contractile and cytoskeletal proteins in urinary bladder smooth muscle from rats treated with epidermal growth factor. Vinte–Jensen L, et al. **Urol Res** 1996;24(4):229–34

Localization of zinc and metallothionein in the rat bladder epithelium during carcinogenesis induced by N–butyl–N–(4–hydroxybutyl) nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(5):279–83

A deficit of chondroitin sulfate proteoglycans on the bladder uroepithelium in interstitial cystitis. Hurst RE, et al. **Urology** 1996 Nov;48(5):817–21

Elevated nitric oxide in the urinary bladder in infectious and noninfectious cystitis. Lundberg JO, et al. **Urology** 1996 Nov;48(5):700–2

Expression of microfibrillar proteins by bovine bladder urothelium. Rosenbloom J, et al. **Urology** 1997 Feb; 49(2):287–92

Mesenchymal–epithelial interactions in the bladder. Baskin LS, et al. **World J Urol** 1996;14(5):301–9 (45 ref.)

Peptide growth factors in normal and hypertrophied bladder. Chen MW, et al. **World J Urol** 1995;13(6):344–8 (28 ref.)

Extracellular matrix and integrin composition of the normal bladder wall. Wilson CB, et al. **World J Urol** 1996;14 Suppl 1:S30–7

MICROBIOLOGY

N–nitrosation at non–gastric sites. Hill MJ. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:105–8 (12 ref.)

Binding of the type 3 fimbriae of Klebsiella pneumoniae to human endothelial and urinary bladder cells. Tarkkanen AM, et al. **Infect Immun** 1997 Apr;65(4):1546–9

Induction of protective immunity after escherichia coli bladder infection in primates. Dependence of the globoside–specific P–fimbrial tip adhesin and its cognate receptor. Söderhäll M, et al. **J Clin Invest** 1997 Jul 15; 100(2):364–72

Absence of bacterial DNA in the bladder of patients with interstitial cystitis. Haarala M, et al. **J Urol** 1996 Nov; 156(5):1843–5

Mathematical modelling of the concentration of microorganisms in the urinary bladder under simple conditions. Hrnčíř E. **Physiol Res** 1996;45(1):75–82

[Colonization types of Escherichia coli in experimental urinary tract infection in compromised mice treated with hydrocortisone] Kakuno Y, et al. **Kansenshogaku Zasshi** 1997 Jul;71(7):652–8 (Eng. Abstr.) **(Jpn)**

[Adhesive properties of bacteria isolated from patients with urinary tract infection to the urinary bladder] Yanagisawa N. **Nippon Hinyokika Gakkai Zasshi** 1997 Jan;88(1):24–34 (Eng. Abstr.) **(Jpn)**

[Suprapubic bladder aspiration. Utility and complication] García Muñoz MT, et al. **An Esp Pediatr** 1996 Oct; 45(4):377–9 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Growth resistance–sized arteries in response to bladder hypertrophy in the rat: time–course, DNA–synthesis and LDH–isoform pattern. Boels PJ, et al. **Acta Physiol Scand** 1996 May;157(1):93–9

MR imaging evaluation of benign mesenchymal tumors of the urinary bladder. Chen M, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):399–403

Invasion of the urinary bladder by uterine cervical carcinoma: evaluation with MR imaging. Kim SH, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):393–7

Recommendations for the reporting of urinary bladder specimens containing bladder neoplasms. Association of Directors of Anatomic and Surgical Pathology. **Am J Clin Pathol** 1996 Nov;106(5):568–70

EEC syndrome and genitourinary anomalies: an update. Maas SM, et al. **Am J Med Genet** 1996 Jun 14;63(3):472–8 (24 ref.)

IGF–binding protein–2 is induced during development of urinary bladder hypertrophy in the diabetic rat. Chen Y, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E297–303

Angiotensin II and bladder obstruction in the rat: influence on hypertrophic growth and contractility. Persson K, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1186–92

Dysregulated proteolytic balance as the basis of excess extracellular matrix in fibrotic disease. Peters CA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1960–5

Urothelial transitional cell carcinoma with endophytic growth patterns: a discussion of patterns of invasion and problems associated with assessment of invasion in 18 cases. Amin MB, et al. **Am J Surg Pathol** 1997 Sep;21(9):1057–68

Organ preservation approaches with radiation therapy in muscle–invasive bladder carcinoma. Liu MC, et al. **Ann Acad Med Singapore** 1996 May;25(3):441–7 (58 ref.)

A clinicopathological approach to cystitis––recommendations for simplified pathology reporting. Thilagarajah R, et al. **Br J Urol** 1997 Apr; 79(4):567–71

Nephrogenic adenoma in children. Case report and review of literature. Schumacher K, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):115–7 (24 ref.)

Modification of bladder structure in response to outflow obstruction and ageing. Gosling JA. **Eur Urol** 1997;32 Suppl 1:9–14

Cellular and molecular aspects of bladder hypertrophy. Levin RM, et al. **Eur Urol** 1997;32 Suppl 1:15–21

Bladder consequences of prostatic obstruction. Mauroy B. **Eur Urol** 1997;32 Suppl 1:3–8

In vitro modulation of implantation and intraepithelial expansion of bladder tumor cells by epidermal growth factor. Bindels EM, et al. **Exp Cell Res** 1997 Sep 15; 235(2):395–402

Recommendations for the reporting of urinary bladder specimens containing bladder neoplasms. Association of Directors of Anatomic and Surgical Pathology [see comments] **Hum Pathol** 1996 Aug;27(8):751–3. Comment in: Hum Pathol 1997 Mar;28(3):389.

Endocervical type glands in urinary bladder: a clinicopathologic study of six cases. Nazeer T, et al. **Hum Pathol** 1996 Aug;27(8):816–20

Hydatid cyst of unusual presentation. Reddy MS, et al. **J Assoc Physicians India** 1995 Jun;43(6):431

Contraction kinetics and myosin isoform composition in smooth muscle from hypertrophied rat urinary bladder. Sjuve R, et al. **J Cell Biochem** 1996 Oct;63(1):86–93

Morphologic changes in the vesical transition epithelium of alcoholic rats. Mello Júnior W, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):393–9

The sonographic diagnosis of infravesical obstruction in children: evaluation of bladder wall thickness indexed to bladder filling [see comments] Kaefer M, et al. **J Urol** 1997 Mar;157(3):989–91. Comment in: J Urol 1997 Mar;157(3):996–7.

Noninvasive quantitative estimation of infravesical obstruction using ultrasonic measurement of bladder weight. Kojima M, et al. **J Urol** 1997 Feb;157(2):476–9

Reversible change of bladder hypertrophy due to benign prostatic hyperplasia after surgical relief of obstruction [see comments] Kojima M, et al. **J Urol** 1997 Jul;158(1):89–93. Comment in: J Urol 1997 Jul;158(1):100–1.

The Hautmann neobladder with a chimney: a versatile modification. Lippert MC, et al. **J Urol** 1997 Oct; 158(4):1510–2

Time–dependent remodeling of the bladder wall in growing rabbits after partial outlet obstruction. Pampinella F, et al. **J Urol** 1997 Feb;157(2):677–82

Copper poisoning in rabbits associated with acute intravascular hemolysis. Cooper GL, et al. **J Vet Diagn Invest** 1996 Jul;8(3):394–6

Recommendations for the reporting of urinary bladder specimens that contain bladder neoplasms. Murphy WM, et al. **Mod Pathol** 1996 Jul;9(7):796–8

Relationship of urinary arsenic to intake estimates and a biomarker of effect, bladder cell micronuclei. Biggs ML, et al. **Mutat Res** 1997 Jun;386(3):185–95

Partial outlet obstruction induces chronic distension and increased stiffness of rat urinary bladder. Damaser MS, et al. **Neurourol Urodyn** 1996;15(6):650–65

Superimposed histologic and genetic mapping of chromosome 17 alterations in human urinary bladder neoplasia. Chaturvedi V, et al. **Oncogene** 1997 May 1; 14(17):2059–70

Bladder dysfunction in the spontaneously diabetic male Abyssinian–Hartley guinea pig. Belis JA, et al. **Pharmacology** 1996 Jul;53(1):66–70

Gangrenous cystitis, not such a rare pathology [letter] Gutierrez Minguez E, et al. **Presse Med** 1996 Oct 12; 25(30):1390

Staging urinary bladder cancer after transurethral biopsy: value of fast dynamic contrast–enhanced MR imaging. Barentsz JO, et al. **Radiology** 1996 Oct;201(1):185–93

Pathologic prognostic parameters in bladder urothelial biopsy, transurethral resection, and cystectomy specimens. Lapham RL, et al. **Semin Diagn Pathol** 1997 May; 14(2):109–22 (110 ref.)

Importance of bladder biopsies in spinal paralysed individuals (SPI) [letter; comment] Janzen J. **Spinal Cord** 1996 Aug; 34(8):499. Comment on: Paraplegia 1995 Oct;33(10):565–72.

A possible use of color Doppler flow imaging in predicting the cause of bladder hypertrophy. Naya Y. **Tohoku J Exp Med** 1997 Jun;182(2):139–50

Extensive handling of rats leads to mild urinary bladder hyperplasia. Cohen SM, et al. **Toxicol Pathol** 1996 Mar–Apr;24(2):251–7

Examination of lesions in the urinary bladder and kidney of dogs induced by nefiracetam, a new nootropic agent. Kashida Y, et al. **Toxicol Pathol** 1996 Sep–Oct;24(5):549–57

What is new in bladder cancer imaging. Barentsz JO, et al. **Urol Clin North Am** 1997 Aug;24(3):583–602 (31 ref.)

Nasal infection with Pasteurella multocida causes proliferation of bladder epithelium in gnotobiotic pigs. Hoskins IC, et al. **Vet Rec** 1997 Jan 4;140(1):22

[Determining the depth of infiltration in urinary bladder carcinoma with contrast medium enhanced dynamic magnetic resonance tomography. With reference to postoperative findings and inflammation] Venz S, et al. **Urologe A** 1996 Jul;35(4):297–304 (Eng. Abstr.) **(Ger)**

[A case of adenocarcinoma of the reconstructed bladder following ileocystoplasty] Ishida T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):439–42 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Prognostic significance of carcinoma in situ and epithelial dysplasia accompanying bladder cancers] Wajiki M. **Nippon Hinyokika Gakkai Zasshi** 1996 Dec;87(12):1269–76 (Eng. Abstr.) **(Jpn)**

[A transurethral endoscopic incision in the treatment of patients with benign prostatic hyperplasia and bladder neck sclerosis] Gorilovskii ML, et al. **Urol Nefrol (Mosk)** 1996 May–Jun;(3):47–51 (79 ref.) **(Rus)**

PHYSIOLOGY

The influence of extracellular Ca2+ on the time course of isovolumetric pressure development in the guinea–pig urinary bladder. Groen J, et al. **Acta Physiol Scand** 1996 Apr;156(4):475–82

Shortening induced deactivation in the guinea–pig urinary bladder. Groen J, et al. **Acta Physiol Scand** 1996 Apr; 156(4):483–7

Detrusor–sphincter dyssynergia induced by cold stimulation of the urinary bladder of rats. Cheng CL, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1271–82

Ca(2+)–activated K+ channels regulate action potential repolarization in urinary bladder smooth muscle. Heppner TJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C110–7

Reflex pathways controlling urethral striated and smooth muscle function in the male rat. Kakizaki H, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1647–56

Intra– and submembrane particle densities during CO2 stimulation of H+ secretion in turtle bladder. Kohn OF, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F491–7

Neurophysiological modeling of voiding in rats: bladder pressure and postganglionic bladder nerve activity. Le Feber J, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R413–21

Pressure, volume, and chemosensitivity in afferent innervation of urinary bladder in rats. Moss NG, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R695–703

Simultaneous diuresis cysto–urethrometry and multichannel urethral pressure profilometry in continent female dogs. Nickel RF, et al. **Am J Vet Res** 1996 Aug;57(8):1131–6

Functional anatomy of the human ureterovesical junction. Roshani H, et al. **Anat Rec** 1996 Aug;245(4):645–51

Voltage–dependent block of L–type Ca channels by caffeine in smooth myocytes of the guinea pig urinary bladder. Yoshino M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:362–4

Implantable volume monitor and miniaturized stimulator dedicated to bladder control. Sawan M, et al. **Artif Organs** 1997 Mar;21(3):219–22

Functional role of M2 and M3 muscarinic receptors in the urinary bladder of rats in vitro and in vivo. Hegde SS, et al. **Br J Pharmacol** 1997 Apr;120(8):1409–18

Relaxant effects of potassium–channel openers on normal and hyper–reflexic detrusor muscle. Martin SW, et al. **Br J Urol** 1997 Sep;80(3):405–13

A modified in vitro technique to evaluate human detrusor muscle. Smith DJ, et al. **Br J Urol** 1997 Feb;79(2):285–7

Brain pertussis toxin–sensitive G proteins are involved in the flavoxate hydrochloride–induced suppression of the micturition reflex in rats. Oka M, et al. **Brain Res** 1996 Jul 15;727(1–2):91–8

Does a profound change in toilet–training affect development of bowel and bladder control? Largo RH, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1106–16

Characterisation of the 5–HT receptor potentiating neurotransmission in rabbit bladder. Barras M, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):425–8

Sacral rhizotomies and electrical bladder stimulation in spinal cord injury. 2. Cost–effectiveness and quality of life analysis. Dutch Study Group on Sacral Anterior Root Stimulation. Wielink G, et al. **Eur Urol** 1997;31(4):441–6

Ca2+ signalling in cultured smooth muscle cells from human bladder. Chambers P, et al. **Exp Physiol** 1996 Jul; 81(4):553–64

Mechanisms of the suppression of the bladder activity by flavoxate. Kimura Y, et al. **Int J Urol** 1996 May;3(3):218–27

Effects of alterations in potassium and calcium concentrations on the pressure generated in rat whole bladder in vitro. Saito M, et al. **Int J Urol** 1996 Nov;3(6):478–83

Calcium independent contraction of bladder smooth muscle.

Yoshimura Y, et al. **Int J Urol** 1997 Jan;4(1):62–7

Role of the pelvic floor in bladder neck opening and closure I: muscle forces. Petros PE, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1997;8(2):74–80

The role of uterine straightening by passive bladder distension before embryo transfer in IVF cycles. Lewin A, et al. **J Assist Reprod Genet** 1997 Jan;14(1):32–4

Different effect of anticholinergic agents and potassium channel openers on urinary bladder response to pelvic nerve stimulation in anaesthetized dogs. Sudoh K, et al. **J Auton Pharmacol** 1997 Apr;17(2):91–6

The vesico–urethral pressuregram analysis of urethral function under stress. Kim KJ, et al. **J Biomech** 1997 Jan; 30(1):19–25

The influence of age on isometric and isotonic rat detrusor contractions. Lieu PK, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar;52(2):M94–6

Effects of LY215490, a competitive alpha–amino–3–hydroxy–5–methylisoxazole–4–propionic acid (AMPA) receptor antagonist, on the micturition reflex in the rat. Yoshiyama M, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):894–904

Videomicroscopic imaging of ureteral peristaltic function in rats during cystometry. Tillig B, et al. **J Pharmacol Toxicol Methods** 1996 Aug;35(4):191–202

Electrical properties of smooth muscle in the guinea–pig urinary bladder. Bramich NJ, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):185–98

Different types of Na+ and A–type K+ currents in dorsal root ganglion neurones innervating the rat urinary bladder. Yoshimura N, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):1–16

Growth factors in bladder wound healing. Baskin LS, et al. **J Urol** 1997 Jun;157(6):2388–95

Calcium regulation of urinary bladder function. Damaser MS, et al. **J Urol** 1997 Feb;157(2):732–8

Active and passive compliance of the fetal bovine bladder. Dean GE, et al. **J Urol** 1997 Sep;158(3 Pt 2):1094–9

Development and regenerative ability of bladder in the transgenic epidermal growth factor receptor gene knockout mouse. DiSandro MJ, et al. **J Urol** 1997 Sep;158(3 Pt 2):1058–65

Role of spinal and peripheral alpha 2 adrenoceptors in micturition in normal conscious rats. Ishizuka O, et al. **J Urol** 1996 Nov;156(5):1853–7

Evidence for the presence of regional differences in the subtype specificity of muscarinic receptors in rabbit lower urinary tract. Mutoh S, et al. **J Urol** 1997 Feb;157(2):717–21

The ontogeny of canine small intestinal submucosa regenerated bladder. Pope JC 4th, et al. **J Urol** 1997 Sep; 158(3 Pt 2):1105–10

Modulation of detrusor contraction strength and micturition characteristics by intrathecal baclofen in anesthetized rats. Watanabe T, et al. **J Urol** 1997 Jun;157(6):2361–5

Comparison in young healthy volunteers of 3 different parameters of constant current stimulation used to determine sensory thresholds in the lower urinary tract. Wyndaele JJ, et al. **J Urol** 1996 Oct;156(4):1415–7

Effects of ethanol on in vivo cystometry and in vitro whole bladder contractility in the rat. Yokoi K, et al. **J Urol** 1996 Oct;156(4):1489–91

Effect of age and outlet resistance on rabbit urinary bladder emptying. Yu HJ, et al. **J Urol** 1997 Sep;158(3 Pt 1):924–30

Na concentration of CSF and cardiovascular adjustment in thermally dehydrated rats. Chen M. **Jpn J Physiol** 1996 Feb;46(1):83–92

Suppression of bladder hyperreflexia by intravesical resiniferatoxin [letter] Cruz F, et al. **Lancet** 1997 Aug 30; 350(9078):640–1

Bladder compliance in neurologically intact women. Harris RL, et al. **Neurourol Urodyn** 1996;15(5):483–8

Changes in vesical neck mobility following vaginal delivery. Peschers U, et al. **Obstet Gynecol** 1996 Dec;88(6):1001–6

Roles of the pontine pneumotaxic and micturition centers in respiratory inhibition during bladder contractions. Gdovin MJ, et al. **Respir Physiol** 1997 Jan;107(1):15–25

Influence of lung volume on respiratory responses to spontaneous bladder contractions. Gdovin MJ, et al. **Respir Physiol** 1997 Feb;107(2):137–48

Acute effects of unilateral pelvic ganglionectomy on urinary bladder function in vivo in the male rat. Berggren T, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):179–84

Proceedings of the 2nd Oslo Biennial Symposium on Lower Urinary Tract Physiology and Pathophysiology. Bladder contractility – normal emptying and emptying against obstruction. 17–18 November 1995. **Scand J Urol Nephrol Suppl** 1997;184:1–97

The concept of bladder work: work and power in bladder emptying. Damaser MS, et al. **Scand J Urol Nephrol Suppl** 1997;184:35–41

Spot urine osmolality, age and bladder capacity as predictors of response to desmopressin in nocturnal enuresis. Eller DA, et al. **Scand J Urol Nephrol Suppl** 1997;183:41–5

Initiation of contraction in detrusor smooth muscle. Fry CH, et al. **Scand J Urol Nephrol Suppl** 1997;184:7–14 (26 ref.)

Alarm treatment: influence on functional bladder capacity. Hansen AF, et al. **Scand J Urol Nephrol Suppl** 1997; 183:59–60

The physiological mechanisms involved in bladder emptying. Morrison JF. **Scand J Urol Nephrol Suppl** 1997;184:15–8 (15 ref.)

The enuretic episode—a complete micturition from a bladder with normal capacity? A critical reappraisal of the definition. Rasmussen PV, et al. **Scand J Urol Nephrol Suppl** 1997;183:23–4

The effect of the full bladder on vasopressin secretion in healthy young adults. Schaumburg HL, et al. **Scand J Urol Nephrol Suppl** 1997;183:29–30

Change in length of the detrusor muscle cells. Tammela T. **Scand J Urol Nephrol Suppl** 1997;184:19–24 (22 ref.)

Recovery of bladder function in patients with acute spinal cord injury: significance of ASIA scores and somatosensory evoked potentials. Curt A, et al. **Spinal Cord** 1997 Jun; 35(6):368–73

Urinary bladder function and drug development [see comments] Ferguson D, et al. **Trends Pharmacol Sci** 1996 Apr;17(4):161–5 (60 ref.). Comment in: Trends Pharmacol Sci 1996 Sep;17(9):314–6.

The ageing bladder in urinary tract disorders [letter; comment] Kuchel GA, et al. **Trends Pharmacol Sci** 1996 Sep;17(9):314–6. Comment on: Trends Pharmacol Sci 1996 Apr;17(4):161–5.

Effects of ageing and X–irradiation on the diurnal rhythm of mouse urinary bladder capacity. Dörr W, et al. **Urol Int** 1997;58(3):153–9

Large–sized bladders reduce intravesical pressure and fluid absorption during TURP using the suprapubic trocar. Zhang W, et al. **Urol Int** 1996;56(1):28–32

Functional restoration of rat bladder after subtotal cystectomy: in vivo cystometry and in vitro study of whole bladder. Saito M, et al. **Urol Res** 1996;24(3):171–5

Ureterovesical junction inhibitory reflex and vesicoureteral junction excitatory reflex: description of two reflexes and their role in the ureteric antireflux mechanism. Shafik A. **Urol Res** 1996;24(6):339–43

Old age does not affect shortening velocity or content of contractile and cytoskeletal proteins in the rat detrusor smooth muscle. Sjuve R, et al. **Urol Res** 1997;25(1):67–70

Modulation of feline bladder and distal urethral responses to dorsal sacral root stimulation by intrathecal administration of a kappa 1–opioid agonist. Abdelmagid ME, et al. **Urology** 1997 May;49(5):802–7

PHYSIOPATHOLOGY

Techniques for imaging bladder support. Mouritsen L. **Acta Obstet Gynecol Scand Suppl** 1997;166:48–9

Modification of urinary bladder function after spinal cord injury. de Groat WC, et al. **Adv Neurol** 1997;72:347–64 (65 ref.)

Altered contractility of urinary bladder in diabetic rabbits: relationship to reduced Na+ pump activity. Gupta S, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C2045–52

Angiotensin II and bladder obstruction in the rat: influence on hypertrophic growth and contractility. Persson K, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1186–92

Simultaneous diuresis cysto–urethrometry and multi–channel urethral pressure profilometry in female dogs with refractory urinary incontinence. Nickel RF, et al. **Am J Vet Res** 1997 Jul;58(7):691–6

Vesicoureteric reflux and timing of micturating cystourethrography after urinary tract infection. Craig JC, et al. **Arch Dis Child** 1997 Mar;76(3):275–7

Bladder instability and incontinence after radical prostatectomy. Minervini R, et al. **Biomed Pharmacother** 1996;50(8):383–5

The subjective assessment and pressure–flow study of outcome of surgical treatment for patients with prostatism and high voiding pressure. Hung CT, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Sep; 56(3):186–91

The neurogenic bladder. Straffon RA. **Clin Neurosurg** 1971; 18:441–56

Bladder to pancreas reflux after kidney and pancreas transplants. Jung WK, et al. **Clin Nucl Med** 1996 Dec; 21(12):971

Cerebral responses elicited by stimulation of the vesico–urethral junction (VUJ) in diabetics. Sarica Y, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jan; 100(1):55–61

Animal models of bladder outlet obstruction and molecular insights into the basis for the development of bladder dysfunction. Buttyan R, et al. **Eur Urol** 1997;32 Suppl 1:32–9

Evaluation of bladder contractility in men undergoing transurethral resection of the prostate. Porru D, et al. **Eur Urol** 1996;30(1):34–9

Diagnostic value of natural fill cystometry in neurogenic bladder in children. Zermann DH, et al. **Eur Urol** 1997; 32(2):223–8

Visual assessment of urethrovesical junction mobility. Montella JM, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1997;8(1):13–7

Postvoid residual volume cannot be accurately estimated by bimanual examination. Nygaard IE. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(2):74–6

Treating urinary incontinence in the elderly population: accepting the challenge. Bennett JK, et al. **J Med Assoc Ga** 1997 Apr;86(2):97–100 (13 ref.)

Short–term bladder–wall response to implantation of microstimulators. Walter JS, et al. **J Spinal Cord Med** 1997 Jul:20(3):319–23

Urodynamic evaluation of changes in urinary control after radical retropubic prostatectomy. Hammerer P, et al. **J Urol** 1997 Jan;157(1):233–6

Natural filling cystometry in small boys with posterior urethral valves: unstable valve bladders become stable during sleep. Holmdahl G, et al. **J Urol** 1997 Sep;158(3 Pt 2):1017–21

Significant correlation of the American Urological Association symptom score and a novel urodynamic parameter: detrusor contraction duration. Kaplan SA, et al. **J Urol** 1996 Nov;156(5):1668–72

Effects of tadenan pretreatment on bladder physiology and biochemistry following partial outlet obstruction. Levin RM, et al. **J Urol** 1996 Dec;156(6):2084–8

Age related bladder capacity and bladder capacity growth in children with myelomeningocele. Palmer LS, et al. **J Urol** 1997 Sep;158(3 Pt 2):1261–4

The effect of anoxia and glucose–free solutions on the contractile response of guinea–pig detrusor strips to intrinsic nerve stimulation and the application of excitatory agonists. Pessina F, et al. **J Urol** 1997 Jun;157(6):2375–80

Selective detrusor activation by electrical sacral nerve root stimulation in spinal cord injury [see comments] Rijkhoff NJ, et al. **J Urol** 1997 Apr;157(4):1504–8. Comment in: J Urol 1997 Apr;157(4):1196.

Vesicourethral function in mice with genetic disruption of neuronal nitric oxide synthase. Sutherland RS, et al. **J Urol** 1997 Mar;157(3):1109–16

This month in investigative urology. Commentary on selective detrusor activation by electrical sacral nerve root stimulation in spinal cord injury [comment] Tanagho EA. **J Urol** 1997 Apr;157(4):1196. Comment on: J Urol 1997 Apr;157(4):1504–8.

Initiation of voiding in humans: the nature and temporal relationship of urethral sphincter responses [see comments] Yalla SV, et al. **J Urol** 1997 Feb;157(2):590–5. Comment in: J Urol 1997 Feb;157(2):615–6.

Changes in cholinergic and purinergic neurotransmission in pathologic bladder of chronic spinal rabbit. Yokota T, et al. **J Urol** 1996 Nov;156(5):1862–6

Is detrusor instability a premature variant of normal micturition reflex? [letter; comment] Goessl C, et al. **Lancet** 1997 Apr 26;349(9060):1255–6. Comment on: Lancet 1997 Feb 15;349(9050):505.

Implantable multiprogrammable microstimulator dedicated to bladder control. Arabi K, et al. **Med Biol Eng Comput** 1996 Jan;34(1):9–12

Urinary bladder–urethral sphincter dysfunction in mice with targeted disruption of neuronal nitric oxide synthase models idiopathic voiding disorders in humans. Burnett AL, et al. **Nat Med** 1997 May;3(5):571–4

Partial outlet obstruction induces chronic distension and increased stiffness of rat urinary bladder. Damaser MS, et al. **Neurourol Urodyn** 1996;15(6):650–65

Pressure transmission ratio: is it a reliable parameter in increased urethro–vesical junction mobility? Meyer S, et al. **Neurourol Urodyn** 1997;16(4):277–84

Effects of long–term partial outflow obstruction on bladder function in the rat. Saito M, et al. **Neurourol Urodyn** 1996; 15(2):157–65

Bladder compliance in patients with benign prostatic hyperplasia. Yokoyama O, et al. **Neurourol Urodyn** 1997; 16(1):19–27; discussion 28–9

Alterations in the physiological properties of urinary bladder smooth muscle caused by bladder emptying against an obstruction. Brading AF. **Scand J Urol Nephrol Suppl** 1997; 184:51–8 (46 ref.)

Do aquaporins have a role in nocturnal enuresis? Frøkiaer J, et al. **Scand J Urol Nephrol Suppl** 1997;183:31–2 (10 ref.)

Etiology of bladder dysfunction secondary to partial outlet obstruction. Calcium disregulation in bladder power generation and the ability to perform work. Levin RM, et al. **Scand J Urol Nephrol Suppl** 1997;184:43–50

The collagens and their urologic significance. Macarak EJ, et al. **Scand J Urol Nephrol Suppl** 1997;184:25–33 (43 ref.)

Preliminary noninvasive back–pressure recordings of bladder pressure. Griffin JH, et al. **Tech Urol** 1996 Summer; 2(2):108–12

Postnatal vesico–ureteral reflux in a boy with urinary bladder dysfunction as the only prenatal sonographic sign. Fägerquist M, et al. **Ultrasound Obstet Gynecol** 1997 Jan; 9(1):64–6

Ice water test in patients with overactive bladder due to cerebrovascular accidents and bladder outlet obstruction. Ishigooka M, et al. **Urol Int** 1997;58(2):84–7

Correlation of ischemia/reperfusion or partial outlet obstruction–induced spectrin proteolysis by calpain with contractile dysfunction in rabbit bladder. Zhao Y, et al. **Urology** 1997 Feb;49(2):293–300

[Contribution of Abrams Griffiths' graphic charts in the analysis of urinary urgency in women] Timmermans LG. **Acta Urol Belg** 1996 Dec;64(4):9–13 (Eng. Abstr.) **(Fre)**

[The variability of the leakage pressure threshold due to exertion "the Valsalva Leak Point Pressure" as a function of the filling volume of the bladder] Haab F, et al. **Prog Urol** 1997 Jun;7(3):422–5 (Eng. Abstr.) **(Fre)**

[Videourodynamic findings in the child with enuresis] Arena F, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5):515–8 (Eng. Abstr.) **(Ita)**

[Diagnostic values and limitations of conventional urodynamic studies (uroflowmetry.residual urine measurement.cystometry) in benign prostatic hypertrophy] Gotoh M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Dec; 87(12):1321–30 (Eng. Abstr.) **(Jpn)**

[Long–term results of systematic treatment for nocturnal

enuresis based on overnight simultaneous monitoring of electroencephalography and cystometry] Imada N, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep;87(9):1114–9 (Eng. Abstr.) **(Jpn)**

[Experimental study of voiding dysfunction induced by cerebral infarction in rats] Ishiura Y. **Nippon Hinyokika Gakkai Zasshi** 1996 Nov;87(11):1221–30 (Eng. Abstr.) **(Jpn)**

[Urological assessment for tethered cord syndrome of delayed onset following repair of meningomyelocele] Namima T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Oct;87(10):1158–66 (Eng. Abstr.) **(Jpn)**

[Postprostatectomy dysuria: restored voiding function by perineal hot water spray in an old male with a contractile bladder] Sakurai T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 May;88(5):580–3 (Eng. Abstr.) **(Jpn)**

[Insufficient detrusor contractility: a urodynamic and morphologic entity in prostatism] Prieto Chaparro L, et al. **Arch Esp Urol** 1996 Sep;49(7):727–39 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Bladder dose estimation during intracavitary brachytherapy for carcinoma of the cervix using a single line source system. Tan LT, et al. **Br J Radiol** 1996 Oct;69(826):953–62

Bladder rupture caused by an intravenous urogram. Meganathan V, et al. **Br J Urol** 1997 May;79(5):811–2

A feasibility study of accelerated fractionation in radiotherapy of carcinoma of the urinary bladder. Moonen L, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1; 37(3):537–42

Bladder wall radiation dose in humans from fluorine-18-FDOPA. Dhawan V, et al. **J Nucl Med** 1996 Nov;37(11):1850–2

Radiation-induced changes in neuropeptides in the rat urinary bladder. Crowe R, et al. **J Urol** 1996 Dec; 156(6):2062–6

Bladder PDT with intravesical clear and light scattering media: effect of an eccentric isotropic light source on the light distribution. van Staveren HJ, et al. **Lasers Surg Med** 1997;20(3):248–53

A comparison of functional bladder damage after intravesical photodynamic therapy with three different photosensitizers. Post JG, et al. **Photochem Photobiol** 1996 Mar;63(3):314–21

Radiation-induced changes in transforming growth factor beta and collagen expression in the murine bladder wall and its correlation with bladder function. Kraft M, et al. **Radiat Res** 1996 Dec;146(6):619–27

Effects of ageing and X-irradiation on the diurnal rhythm of mouse urinary bladder capacity. Dörr W, et al. **Urol Int** 1997;58(3):153–9

[Spontaneous intraperitoneal perforation of the urinary bladder—a rare cause of acute abdomen. 2 case reports] Steinert M, et al. **Zentralbl Chir** 1997;122(4):301–3; discussion 303–4 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Voiding cystourethrography in female stress incontinence [letter; comment] Kelvin FM, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1065–6. Comment on: AJR Am J Roentgenol 1996 Mar;166(3):561–5.

Dynamic cystoproctography of female pelvic floor defects and their interrelationships. Kelvin FM, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):769–74

Dynamic cystoproctography: a unifying diagnostic approach to pelvic floor and anorectal dysfunction. Maglinte DD, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):759–67

The bladder and bladder tumors: imaging with three-dimensional display of helical CT data. Narumi Y, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1134–5

Dynamic cystoproctography and physiological testing in women with urinary stress incontinence and urogenital prolapse. Halligan S, et al. **Clin Radiol** 1996 Nov; 51(11):785–90

Bladder movement during radiation therapy for bladder cancer: implications for treatment planning. Turner SL, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):355–60

Voiding cystourethrography after uncomplicated ureteral reimplantation in children: is it necessary? Bisignani G, et al. **J Urol** 1997 Sep;158(3 Pt 2):1229–31 (26 ref.)

Analysis of the dose-surface histogram and dose-wall histogram for the rectum and bladder. Li S, et al. **Med Phys** 1997 Jul;24(7):1107–16

Variation in the diagnosis of vesicoureteric reflux using micturating cystourethrography. Craig JC, et al. **Pediatr Nephrol** 1997 Aug;11(4):455–9

Correlation of cystographic bladder morphology and neuroanatomy in boys with posterior urethral valves. Bloom DA, et al. **Pediatr Radiol** 1997 Jun;27(6):553–6

Inadvertent intravesical insertion of a Tenckhoff catheter [letter] Rouse J, et al. **Perit Dial Int** 1996 Mar-Apr; 16(2):186–7

Virtual cystoscopy: early clinical experience. Fenlon HM, et al. **Radiology** 1997 Oct;205(1):272–5

Evaluation of voiding cystourethrography prior to renal transplantation. Glazier DB, et al. **Transplantation** 1996 Dec 27;62(12):1762–5

[The diuresis urogram in patients with a bladder replacement] Merkle EM, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):480–3 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Sites of abnormal tracer accumulation on a radionuclide cystogram. Bhattathiry MM, et al. **Clin Nucl Med** 1996 Jul;21(7):578

False-positive WBC imaging secondary to a distended bladder and fecal retention. Meyerrose GE, et al. **Clin Nucl Med** 1997 Jun;22(6):422–4

Mobility of pelvic kidney demonstrated during bladder filling. Serpa MA, et al. **Clin Nucl Med** 1996 Apr; 21(4):346–7

Assessment of radioisotopic micturating cystography for the diagnosis of vesicoureteric reflux in renal transplant recipients with acute pyelonephritis. Canivet E, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):67–70

Radionuclide cystography: a review of its use in adults. Roach PJ, et al. **Q J Nucl Med** 1996 Dec;40(4):372–7

The role of direct radionuclide cystography in evaluation of vesicoureteral reflux. Saraga M, et al. **Scand J Urol Nephrol** 1996 Oct;30(5):367–71

[Detection of vesicoureteral reflux with radionuclide cystography] Kuzmanovska D, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:78–81 (Eng. Abstr.) **(Scc)**

SECRETION

Thrombin regulates nerve growth factor secretion from vascular, but not bladder smooth muscle cells. Sherer TB, et al. **Cell Tissue Res** 1997 Jul;289(1):155–61

SURGERY

Orthotopic ileal neobladder: our experience. Cortellini P, et al. **Acta Biomed Ateneo Parmense** 1995;66(6):239–42

Distribution of ICC and motor response characteristics in urinary bladders reconstructed from human ileum. Faussone-Pellegrini MS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G147–57

Surgical treatment of urinary incontinence. Thomas DF. **Arch Dis Child** 1997 Apr;76(4):377–80 (11 ref.)

Bladder neck suspension using bone anchors for the treatment of female stress incontinence. Nativ O, et al. **ASAIO J** 1997 May-Jun;43(3):204–8

Laparoscopic and needle colposuspension. Smith AR. **Baillieres Clin Obstet Gynaecol** 1995 Dec;9(4):757–67

MRCOG. Laparoscopic colposuspension. Shaxted EJ. **Br J Hosp Med** 1996 Oct 2-15;56(7):355–7

Urological complications in renal transplantation: impact of a change of technique. Butterworth PC, et al. **Br J Urol** 1997 Apr;79(4):499–502

Urodynamic investigations in reversed ileal seromuscular enterocystoplasty: an experimental study in a rabbit model. Celayir S, et al. **Br J Urol** 1997 Jun;79(6):883–7

Bladder augmentation in the prevention of cyclophosphamide-induced haemorrhagic cystitis in the rat model. Crocitto LE, et al. **Br J Urol** 1996 Oct;78(4):530–3

Laparoscopic removal of an electric wire from the bladder. Ejstrud P, et al. **Br J Urol** 1997 Aug;80(2):338

Using a cytoscope sheath to perform urethrovesical anastomosis [letter; comment] Fourcade RO. **Br J Urol** 1997 May;79(5):819. Comment on: Br J Urol 1996 Oct;78(4):641.

Reproduction of functional smooth muscle tissue and partial bladder replacement. Probst M, et al. **Br J Urol** 1997 Apr; 79(4):505–15

Long-term follow-up results of the Stamey operation [letter; comment] Resnick NM. **Br J Urol** 1997 Feb;79(2):303. Comment on: Br J Urol 1996 Jan;77(1):86–8.

Modified reinforcement for vesico-urethral anastomosis after radical prostatectomy. Saito S. **Br J Urol** 1997 Jul;80(1):147

Bowel problems after enterocystoplasty. Singh G, et al. **Br J Urol** 1997 Mar;79(3):328–32

Pancreaticocystostomy revision for obstructive pancreatitis and pancreatic fistula after segmental pancreatic transplantation. Esterl RM, et al. **Clin Transplant** 1996 Jun; 10(3):287–93

Simultaneous ureterocystoplasty and living related renal transplantation. Kim CO Jr, et al. **Clin Transplant** 1996 Aug;10(4):333–6

Drainage of the exocrine pancreas in clinical transplantation: comparison of bladder versus enteric drainage in a consecutive series. Pearson TC, et al. **Clin Transplant** 1997 Jun;11(3):201–5

Laparoscopic colposuspension and pelvic floor repair. Vancaillie TG. **Curr Opin Obstet Gynecol** 1997 Aug; 9(4):244–6 (19 ref.)

Percutaneous needle colposuspension to Cooper's ligament for the treatment of stress incontinence in women: a report of 82 cases. Darai E, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jul;74(1):53–5

Detrusorectomy with Mitrofanoff stoma. Morecroft JA, et al. **Eur J Pediatr Surg** 1996 Dec;6 Suppl 1:30–1

Female urethra-sparing cystectomy and orthotopic bladder replacement. Jarolím L, et al. **Eur Urol** 1997;31(2):173–7

Symptomatic outcome following clam ileocystoplasty. Kelly JD, et al. **Eur Urol** 1997;32(1):30–3

Severe recurrent ureteral stricture: the combined use of an anterograde and retrograde approach in the prone split-leg position without X-rays. Scarpa RM, et al. **Eur Urol** 1997; 31(2):254–6

A study on the feasibility of vesicomyotomy in patients with motor urge incontinence. ter Meulen PH, et al. **Eur Urol** 1997;32(2):166–9

The treatment of vesicovaginal fistulae [see comments] Woo HH, et al. **Eur Urol** 1996;29(1):1–9 (41 ref.). Comment in: Eur Urol 1997;31(1):126.

Correction of hemodynamic abnormalities by vesicoamniotic shunting in familial congenital megacystis. Tomlinson MW, et al. **Fetal Diagn Ther** 1996 Jan-Feb;11(1):46–9

Laparoscopic bladder-neck suspension for urinary stress incontinence in women: our first twenty patients. Tay KP, et al. **Int J Urol** 1996 Jul;3(4):278–81

Transvaginal colposuspension for the treatment of genuine stress incontinence combined with vaginal hysterectomy: a preliminary report. Barlas P, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(1):20–3

Laparoscopic retropubic colposuspension (Burch procedure). Liu CY, et al. **J Am Assoc Gynecol Laparosc** 1993 Nov; 1(1):31–5

Laparoscopic bladder neck suspension. Papasakelariou C, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb;4(2):185–9

Transvaginal repair of bladder lacerations during LAVH. Quinlan DJ, et al. **J Am Assoc Gynecol Laparosc** 1995 Nov; 3(1):103–7

Experience with enteric conversion after pancreatic transplantation with bladder drainage. Sindhi R, et al. **J Am Coll Surg** 1997 Mar;184(3):281–9

In vivo comparison of electrosurgical vaporization electrodes. Wolf JS Jr, et al. **J Endourol** 1997 Feb; 11(1):83–7

Laparoscopic extraperitoneal bladder neck suspension (LEBNS) for stress urinary incontinence. Yang SC, et al. **J Korean Med Sci** 1995 Dec;10(6):426–30

Advances in the management of urinary incontinence in children. Van Savage J, et al. **J Ky Med Assoc** 1997 Jun; 95(6):226–34 (11 ref.)

Pelvic and bladder trauma: a case report and subject review. Wright DG, et al. **J Orthop Trauma** 1996;10(5):351–4 (28 ref.)

Seromuscular gastrocystoplasty in rats. Demirbilek S, et al. **J Pediatr Surg** 1997 Apr;32(4):575–9

Ureterocystoplasty with preservation of ipsilateral renal function. Gosalbez R Jr, et al. **J Pediatr Surg** 1996 Jul; 31(7):970–5

Burch colposuspension vs. Stamey bladder neck suspension. A comparison of complications with special emphasis on detrusor instability and voiding dysfunction. Wang AC. **J Reprod Med** 1996 Jul;41(7):529–33

Short-term bladder-wall response to implantation of microstimulators. Walter JS, et al. **J Spinal Cord Med** 1997 Jul;20(3):319–23

Growth factors in bladder wound healing. Baskin LS, et al. **J Urol** 1997 Jun;157(6):2388–95

Re: Modified Ingelman-Sundberg bladder denervation procedure for intractable urge incontinence [letter; comment] Batista JE, et al. **J Urol** 1997 Sep;158(3 Pt 1):888 . Comment on: J Urol 1996 Nov;156(5):1744–7.

Modified Ingelman-Sundberg bladder denervation procedure for intractable urge incontinence [see comments] Cespedes RD, et al. **J Urol** 1996 Nov;156(5):1744–7. Comment in: J Urol 1997 Sep;158(3 Pt 1):888.

Seromuscular colocystoplasty lined with urothelium protects dogs from acidosis during ammonium chloride loading. Denes ED, et al. **J Urol** 1997 Sep;158(3 Pt 2):1075–80

Enteric mucosal regrowth after bladder augmentation using demucosalized gut segments. Dewan PA, et al. **J Urol** 1997 Sep;158(3 Pt 2):1141–6

Renal transplantation into abnormal bladders [editorial; comment] González R. **J Urol** 1997 Sep;158(3 Pt 1):895–6 . Comment on: J Urol 1997 Sep;158(3 Pt 1):892–4.

Rectus fascial sling suspension of the vesicourethral anastomosis after radical prostatectomy. Jorion JL. **J Urol** 1997 Mar;157(3):926–8

Stone formation after augmentation cystoplasty: the role of intestinal mucus. Khoury AE, et al. **J Urol** 1997 Sep;158(3 Pt 2):1133–7

Re: Editorial: urinary reconstruction and diversion [letter; comment] László P. **J Urol** 1996 Oct;156(4):1445. Comment on: J Urol 1995 Oct;154(4):1334.

The Hautmann neobladder with a chimney: a versatile modification. Lippert MC, et al. **J Urol** 1997 Oct; 158(4):1510–2

Laparoscopic management of intentional and unintentional cystotomy [see comments] Nezhat CH, et al. **J Urol** 1996 Oct;156(4):1400–2. Comment in: J Urol 1996 Oct;156(4):1411.

Trigonal splitting is a major complication of endoscopic trigonoplasty at 1-year followup. Okamura K, et al. **J Urol** 1997 Apr;157(4):1423–5 (13 ref.)

Does the success of ureterointestinal implantation in orthotopic bladder substitution depend more on surgeon level of experience or choice of technique? Roth S, et al. **J Urol** 1997 Jan;157(1):56–60

Free neurovascular transfer of latissimus dorsi muscle to the bladder. I. Experimental studies. Stenzl A, et al. **J Urol** 1997 Mar;157(3):1103–8

Laparoscopic Burch procedure for stress urinary incontinence: the Carter modification. Carter JE. **Keio J Med** 1996 Sep;45(3):168–71

Laplace's law and the risks and prevention of bladder rupture after enterocystoplasty and bladder autoaugmentation. Chancellor MB, et al. **Neurourol Urodyn** 1996;15(3):223–33

(19 ref.)
Dynamic urinary graciloplasty in male goats: a study on histology and urethral pressures. Heesakkers J, et al. **Neurourol Urodyn** 1997;16(2):117–23
Neobladder surgery also available for women [letter; comment] Miano TM. **Oncol Nurs Forum** 1996 Jul;23(6):881 . Comment on: Oncol Nurs Forum 1996 Apr;23(3):459–68.
Non-intubated pyeloplasty for pelviureteric junction obstruction in children. Ahmed S, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):389–92
Urethral disruption with urinary extravasation: a delayed complication of pancreatic transplantation. Dumas MD, et al. **Radiology** 1996 Dec;201(3):761–5
Long-term results of the Stamey Bladder-neck suspension procedure and of the Burch colposuspension. Christensen H, et al. **Scand J Urol Nephrol** 1997 Aug;31(4):349–53
Treatment strategies using transurethral surgery, chemotherapy, and radiation therapy with selection that safely allows bladder conservation for invasive bladder cancer. Kanady KE, et al. **Semin Surg Oncol** 1997 Sep–Oct; 13(5):359–64 (36 ref.)
Use of iontophoretic anaesthesia in urologic surgery: a preliminary experience. Png DJ, et al. **Singapore Med J** 1996 Dec;37(6):636–8
Gracilis urethromyoplasty—an autologous urinary sphincter for neurologically impaired patients with stress incontinence. Chancellor MB, et al. **Spinal Cord** 1997 Aug; 35(8):546–9
Bladder autoaugmentation in adult patients with neurogenic voiding dysfunction. Stöhrer M, et al. **Spinal Cord** 1997 Jul;35(7):456–62
Laparoscopic colposuspension. Is it cost-effective? Loveridge K, et al. **Surg Endosc** 1997 Jul;11(7):762–5
Percutaneous bladder neck suspension: technique and results. Dmochowski RR, et al. **Tech Urol** 1996 Fall;2(3):147–53
Sutureless endoscopic colposuspension with fibrin sealant. Kiilholma P, et al. **Tech Urol** 1995 Summer;1(2):81–3
Bladder autoaugmentation. Rivas DA, et al. **Tech Urol** 1995 Winter;1(4):181–7 (18 ref.)
Laparoscopic Burch colposuspension. Teichman JM. **Tech Urol** 1995 Spring;1(1):19–24
Use of an augmented urinary bladder can be catastrophic in renal transplantation. Alfrey EJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):154–5
Ureterovesical anastomosis in renal transplants: fewer complications with the extravesical technique. Butterworth PC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):151
Intestinal drainage of the exocrine pancreatic allograft revisited: a better choice? Davidson I, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):639
Kidney transplantation in patients with bladder augmentation: surgical outcome and urodynamic follow-up. Nahas WC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):157–8
Frequency of hyperkalemia in recipients of simultaneous pancreas and kidney transplants with bladder drainage. Kaplan B, et al. **Transplantation** 1996 Oct 27;62(8):1174–5
Simultaneous pancreas/kidney transplantation—a comparison of enteric and bladder drainage of exocrine pancreatic secretions. Kuo PC, et al. **Transplantation** 1997 Jan 27;63(2):238–43
Laparoscopic surgery for stress urinary incontinence. Iosif CS. **Urol Int** 1996;57(3):180–4
Laparoscopic repair of traumatic intraperitoneal bladder rupture. Iselin CE, et al. **Urol Int** 1996;57(2):119–21
Clinical outcome and quality of life after enterocystoplasty for contracted bladders. Kuo HC. **Urol Int** 1997;58(3):160–5
Functional restoration of rat bladder after subtotal cystectomy: in vivo cystometry and in vitro study of whole bladder. Saito M, et al. **Urol Res** 1996;24(3):171–5
Renal transplantation in children following augmentation ureterocystoplasty. Landau EH, et al. **Urology** 1997 Aug; 50(2):260–2
Comparison of bladder neck preservation to bladder neck resection in maintaining postprostatectomy urinary continence. Lowe BA. **Urology** 1996 Dec;48(6):889–93
Comparison of the modified vest and the direct anastomosis for radical retropubic prostatectomy. Novicki DE, et al. **Urology** 1997 May;49(5):732–6 (9 ref.)
Medical management of iatrogenic rents in the wall of the feline urinary bladder. Osborne CA, et al. **Vet Clin North Am Small Anim Pract** 1996 May; 26(3):551–62 (6 ref.)
Treatment of feline lower urinary tract disease by debriding the bladder mucosa: first do no harm. Osborne CA, et al. **Vet Clin North Am Small Anim Pract** 1996 May; 26(3):639–42 (6 ref.)
[Prenatal use of a vesico-amniotic shunt in obstructive uropathy] Cermák A, et al. **Rozhl Chir** 1997 Jan;76(1):6–8 (Eng. Abstr.) **(Cze)**
[Transvaginal closure of the bladder neck in women with a neurogenic bladder and destroyed urethra] Chassagne S, et al. **Prog Urol** 1997 Apr;7(2):286–92 (8 ref.) (Eng. Abstr.) **(Fre)**
[Isolated Burch type indirect colposuspension of the bladder neck in the treatment of stress urinary incontinence in women. Long-term results] Lebret T, et al. **Prog Urol** 1997 Jun;7(3):426–32 (Eng. Abstr.) **(Fre)**
[Damage to the lumbosacral plexus in psoas hitch operation] Rosenow F, et al. **Nervenarzt** 1996 Feb;67(2):160–2 (Eng. Abstr.) **(Ger)**
[A case of adenocarcinoma of the reconstructed bladder following ileocystoplasty] Ishida T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):439–42 (8 ref.) (Eng. Abstr.) **(Jpn)**
[Pregnancy after augmentation cystoplasty. A case report] Yamazaki Y, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jun;88(6):632–5 (Eng. Abstr.) **(Jpn)**
[Urethral invagination by Solovov's technic in a patient with obliteration of the posterior urethra and a small bladder as a consequence of prostatic cancer] Baranov SD, et al. **Urol Nefrol (Mosk)** 1996 Nov–Dec;(6):45–8 (Eng. Abstr.) **(Rus)**
[The choice of the method for the surgical treatment of bladder exstrophy] Osipov IB, et al. **Urol Nefrol (Mosk)** 1996 Sep–Oct;(5):21–3 (Eng. Abstr.) **(Rus)**
[Ultrasonographic (intra- and extraluminal) pattern of cervico-urethral anastomosis after radical prostatectomy] Castiñeiras J, et al. **Actas Urol Esp** 1996 May;20(5):443–7 (Eng. Abstr.) **(Spa)**
[Distal detubularized sigmoidoplasty. Description of the technique] Isorna Martinez de la Riva S. **Arch Esp Urol** 1996 Sep;49(7):657–66 (44 ref.) (Eng. Abstr.) **(Spa)**
[Colonic conduit: an alternative to the treatment of urinary incontinence] Martín Osorio JA, et al. **Cir Pediatr** 1996 Oct;9(4):163–5 (Eng. Abstr.) **(Spa)**
[Bladder augmentation in children: experience with 15 cases] Nortes L, et al. **Cir Pediatr** 1996 Jul;9(3):103–7 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Adaptive morphological changes of the intestinal mucosa in orthotopic ileal bladder. Short-term and long-term evaluation. Carini M, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):527–36
Nephrogenic adenoma after urethral reconstruction using bladder mucosa: report of 6 cases and review of the literature. Weingärtner K, et al. **J Urol** 1997 Sep;158(3 Pt 2):1175–7 (20 ref.)
Histological study of urinary bladder transplantation in rats. Takeuchi K, et al. **Transplantation** 1997 Apr 15;63(7):922–6

ULTRASONOGRAPHY

A case of ureteral reflux identified by ultrasound. Hiraoka M, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):374–6
Evaluation of an ultrasonographic score for urinary bladder morbidity in Schistosoma haematobium infection. Medhat A, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):16–9
Ultrasound measurement of fetal urine flow. Hedriana HL. **Clin Obstet Gynecol** 1997 Jun;40(2):337–51 (28 ref.)
Case report: antenatal ultrasonic diagnosis of complete bladder duplication [published erratum appears in Clin Radiol 1997 Feb;52(2):164] O'Sullivan GJ, et al. **Clin Radiol** 1996 Nov;51(11):818–9
The assessment of bladder neck position and mobility in continent nullipara, mulitpara, forceps-delivered and incontinent women using perineal ultrasound: a future office procedure? Meyer S, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(3):138–46
Applicability of perineal sonography in anatomical evaluation of bladder neck in women with and without genuine stress incontinence. Chen GD, et al. **J Clin Ultrasound** 1997 May; 25(4):189–94
In vivo three-dimensional sonographic measurement of organ volume: validation in the urinary bladder. Riccabona M, et al. **J Ultrasound Med** 1996 Sep;15(9):627–32
The sonographic diagnosis of infravesical obstruction in children: evaluation of bladder wall thickness indexed to bladder filling [see comments] Kaefer M, et al. **J Urol** 1997 Mar;157(3):989–91. Comment in: J Urol 1997 Mar;157(3):996–7.
Noninvasive quantitative estimation of infravesical obstruction using ultrasonic measurement of bladder weight. Kojima M, et al. **J Urol** 1997 Feb;157(2):476–9
Accuracy of residual urine measurement in men: comparison between real-time ultrasonography and catheterization. Simforoosh N, et al. **J Urol** 1997 Jul;158(1):59–61
Severe lupus cystitis with obstructive uropathy [letter] Odeh M. **Nephron** 1996;74(2):493–4
Possible use of ultrasonically-estimated bladder weight in patients with neurogenic bladder dysfunction. Kojima M, et al. **Neurourol Urodyn** 1996;15(6):641–9
Transabdominal ultrasonography of the bladder as a staging examination for cervical carcinoma. de Jonge ET, et al. **S Afr Med J** 1995 Oct;85(10 Suppl):1076–80
Transvaginal sonographic assessment of the fetal urinary tract in early pregnancy. Rosati P, et al. **Ultrasound Obstet Gynecol** 1996 Feb;7(2):95–100
Fetal megacystis at 10–14 weeks of gestation. Sebire NJ, et al. **Ultrasound Obstet Gynecol** 1996 Dec;8(6):387–90
Unusual fate of vesicoallantoic cyst with non-visualization of fetal urinary bladder in a case of patent urachus. Yoo SJ, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):422–4
A fibroepithelial urethral polyp protruding into the base of the bladder: sonographic diagnosis. Barzilai M, et al. **Urol Int** 1996;57(2):129–31
Three-dimensional ultrasound device for rapid determination of bladder volume. Marks LS, et al. **Urology** 1997 Sep; 50(3):341–8
Sonographic evaluation of urinary bladder wall thickness in normal dogs. Geisse AL, et al. **Vet Radiol Ultrasound** 1997 Mar-Apr;38(2):132–7
[Can the combination of bladder ultrasonography and urinary cytodiagnosis replace cystoscopy in the diagnosis and follow-up of tumors of the bladder?] Cariou G, et al. **Prog Urol** 1997 Feb;7(1):51–5 (Eng. Abstr.) **(Fre)**
[Correlation between bladder echography and urodynamic examination in patients with multiple sclerosis] Vespasiani G, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):71–4 (Eng. Abstr.) **(Ita)**
[Portable bladder ultrasonography: a new technic for the urological management of pediatric spinal cord damage] Mercurella A, et al. **Pediatr Med Chir** 1997 May–Jun; 19(3):197–8 (Eng. Abstr.) **(Ita)**
[Ultrasonographic (intra- and extraluminal) pattern of cervico-urethral anastomosis after radical prostatectomy] Castiñeiras J, et al. **Actas Urol Esp** 1996 May;20(5):443–7 (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Intra- and submembrane particle densities during CO2 stimulation of H+ secretion in turtle bladder. Kohn OF, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F491–7
Ultrastructural study of the noninvolved urothelium of tumor-bearing patients after two years of intravesical interferon therapy. Stravoravdi P, et al. **Eur Urol** 1996; 29(4):477–82
Adaptive morphological changes of the intestinal mucosa in orthotopic ileal bladder. Short-term and long-term evaluation. Carini M, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):527–36
Morphologic changes in the vesical transition epithelium of alcoholic rats. Mello Júnior W, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):393–9
Scales of urine acidification: apical membrane-associated particles in turtle bladder. Steinmetz PR, et al. **Kidney Int** 1996 Jun;49(6):1655–9 (15 ref.)
Structure of the lymphatic microcirculation in the human urinary bladder with different intraluminal pressure and distension. Scelsi R, et al. **Lymphology** 1996 Jun;29(2):60–6
Reorganisation of the urothelial luminal plasma membrane in the cyclophosphamide treated rats. Romih R, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R241–2
Distinctive ultrastructural pathology of nonulcerative interstitial cystitis: new observations and their potential significance in pathogenesis. Elbadawi AE, et al. **Urol Int** 1996;56(3):137–62
[An ultrastructural study of the apical cytoskeleton of the epithelial cells in the frog bladder with an ADH-dependent and an ADH-independent increase in osmotic permeability] Komissarchik IaIu, et al. **Tsitologiia** 1996;38(9):927–33 (Eng. Abstr.) **(Rus)**

VIROLOGY

The central neural pathways involved in micturition in the neonatal rat as revealed by the injection of pseudorabies virus into the urinary bladder. Sugaya K, et al. **Neurosci Lett** 1997 Feb 28;223(3):197–200
Viruses and interstitial cystitis: adenovirus genomes cannot be demonstrated in urinary bladder biopsies. Hukkanen V, et al. **Urol Res** 1996;24(4):235–8

BLADDER CALCULI

Pregnancy complicated by vesical calculus and vesicocutaneous fistula. Penning SR, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):728–9

CHEMICALLY INDUCED

Fluoroquinolone associated bladder stone. Nakano M, et al. **J Urol** 1997 Mar;157(3):946

CHEMISTRY

Study of the structure of struvite stones with scanning electron microscopy and energy-dispersive X-ray microanalysis. Suzuki T, et al. **Urol Int** 1997;58(2):88–92

COMPLICATIONS

Dumbbell stone of prostatic fossa after prostatectomy. A combined ESWL and suprapubic percutaneous treatment. Melone F, et al. **Acta Urol Belg** 1996 Dec;64(4):27–31
Giant stone in a partially herniated hour-glass bladder presenting as incarcerated incisional hernia. Edwards DP, et al. **Br J Urol** 1997 Jul;80(1):157
Anuria and acute renal failure caused by multiple bladder calculi. Madjar S, et al. **Int Urol Nephrol** 1996;28(5):639–41
Posterior urethral valves and vesicolithiasis in children. Neulander E, et al. **Int Urol Nephrol** 1996;28(4):563–8
A rare case of cystolithiasis in procidentia. Bera SK, et al. **J Indian Med Assoc** 1996 Feb;94(2):84
[A case of tunnelized concrement in ureterocele] Norova GV. **Vestn Rentgenol Radiol** 1997 Jul–Aug;(4):34–5 **(Rus)**
[Bilateral obstructive uropathy secondary to encrusted cystitis. Report of a case] Parra Muntaner L, et al. **Arch Esp Urol** 1996 Oct;49(8):870–2 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Vesical keratolith: dense keratinous material mimicking a bladder stone. Williams JC, et al. **J Urol** 1996 Oct; 156(4):1440

BLADDER CALCULI

[Bladder stones in children in Gabon. Three case reports] Koko J, et al. **Ann Urol (Paris)** 1996;30(5):247–50 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Inhibition of calcium oxalate urolithiasis in a rat model of lithogenesis using bisphosphonates. Gupta M, et al. **J Endourol** 1997 Feb;11(1):1–4

ETIOLOGY

An unusual case of cystolithiasis: a urological lesson for gynaecologists. Cumming GP, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):117–8

Vesical calculus around an intra-uterine contraceptive device. Maskey CP, et al. **Br J Urol** 1997 Apr;79(4):654–5

Stone formation on permanent suture material used previously in colposuspension [letter; comment] Neuman M, et al. **Br J Urol** 1997 Jan;79(1):148. Comment on: Br J Urol 1995 Jul;76(1):139–40.

Vesical calculus: an unusual complication of renal transplantation. Klein FA, et al. **Clin Transplant** 1997 Apr; 11(2):110–2

Stone formation after augmentation cystoplasty: the role of intestinal mucus. Khoury AE, et al. **J Urol** 1997 Sep;158(3 Pt 2):1133–7

Hair as the nidus of a bladder stone in a traumatic paraplegic patient [letter] Vaidyanathan S, et al. **Spinal Cord** 1997 Aug; 35(8):558

Urinary incontinence secondary to a vaginal pessary. Chow SH, et al. **Urology** 1997 Mar;49(3):458–9

[Xanthine urinary calculus in a patient with Lesch-Nyhan syndrome. Apropos of a case] Volpe P, et al. **Prog Urol** 1997 Feb;7(1):74–7 (Eng. Abstr.) **(Fre)**

[An experimental study of infection stone formation by Corynebacterium species] Arai Y, et al. **Hinyokika Kiyo** 1997 Feb;43(2):115–21 (Eng. Abstr.) **(Jpn)**

[Experimental bladder stone production by human uropathogenic bacteria] Arai Y, et al. **Hinyokika Kiyo** 1997 Mar;43(3):207–11 (Eng. Abstr.) **(Jpn)**

[A case of bladder calculus due to a ruptured balloon fragment of a Foley catheter] Ohashi H. **Hinyokika Kiyo** 1997 Mar;43(3):227–8 (Eng. Abstr.) **(Jpn)**

HISTORY

Hippocrates and urology: the first surgical subspecialty. Bloom DA. **Urology** 1997 Jul;50(1):157–9

[Claude Nicolas Le Cat: on the opinion regarding stone adhesion to the bladder] Lovaco Castellano F. **Arch Esp Urol** 1997 Apr;50(3):217–9 **(Spa)**

MICROBIOLOGY

[Experimental bladder stone production by Ureaplasma urealyticum] Arai Y, et al. **Hinyokika Kiyo** 1996 Oct; 42(10):729–34 (Eng. Abstr.) **(Jpn)**

[An experimental study of infection stone formation by Corynebacterium species] Arai Y, et al. **Hinyokika Kiyo** 1997 Feb;43(2):115–21 (Eng. Abstr.) **(Jpn)**

RADIOTHERAPY

Re: Neodymium:YAG laser removal of stone formed on nonabsorbable suture used previously in colposuspension [letter; comment] Conlin MJ. **J Urol** 1997 Mar;157(3):962–3 . Comment on: J Urol 1996 Aug;156(2 Pt 1):472.

SURGERY

Recurrent bladder exstrophy following cystolithotomy. Fouda-Neel K, et al. **Br J Urol** 1997 Jul;80(1):148

A giant bladder stone: managed with osteotome. Adsan O, et al. **Int Urol Nephrol** 1996;28(2):163–6

Intracorporeal pneumatic lithotripsy for ureteral and vesical calculi. Oktay B, et al. **Scand J Urol Nephrol** 1997 Aug; 31(4):333–6

[Bladder stones in children in Gabon. Three case reports] Koko J, et al. **Ann Urol (Paris)** 1996;30(5):247–50 (Eng. Abstr.) **(Fre)**

THERAPY

The removal of a stone from an ileal conduit using a balloon catheter. Muto A, et al. **Br J Urol** 1997 Sep;80(3):489

Extracorporeal shock wave lithotripsy monotherapy for bladder stones. Kostakopoulos A, et al. **Int Urol Nephrol** 1996;28(2):157–61

Management of vesical calculi: comparison of lithotripsy devices. Razvi HA, et al. **J Endourol** 1996 Dec;10(6):559–63

Endoscopic ballistic lithotripsy in the treatment of bladder calculi in patients with neurogenic voiding dysfunction. Vespasiani G, et al. **J Endourol** 1996 Dec;10(6):551–4

Percutaneous cystolithotomy with endotracheal tube tract dilation after urinary tract reconstruction. Elder JS. **J Urol** 1997 Jun;157(6):2298–300

Cystoscopic holmium lithotripsy of large bladder calculi. McIver BD, et al. **Tech Urol** 1996 Summer;2(2):65–7

Holmium:yttrium-aluminum-garnet laser cystolithotripsy of large bladder calculi. Teichman JM, et al. **Urology** 1997 Jul;50(1):44–8

[The use of the Litoklast apparatus for the pneumatic contact destruction of stones in the ureter and bladder] Olefir IuV, et al. **Voen Med Zh** 1997 Mar;318(3):40–4 **(Rus)**

ULTRASTRUCTURE

Study of the structure of struvite stones with scanning electron microscopy and energy-dispersive X-ray microanalysis. Suzuki T, et al. **Urol Int** 1997;58(2):88–92

BLADDER DISEASES

Are 'valve bladders' congenital or iatrogenic? Duckett JW. **Br J Urol** 1997 Feb;79(2):271–5 (34 ref.)

Vesicourethral dysfunction--neurogenic and nonneurogenic considerations [editorial] Perkash I. **J Urol** 1996 Nov; 156(5):1751–2

Hyponatraemic renal pseudofailure--don't forget the possibility of uroperitoneum. Wystrychowski A, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2491–2

Vesical endometriosis: report of two cases and review of the literature. Price DT, et al. **Urology** 1996 Oct; 48(4):639–43 (30 ref.)

[Bladder pseudotumor in childhood] Fernández Arjona M, et al. **Actas Urol Esp** 1997 Jan;21(1):64–6 (14 ref.) (Eng. Abstr.) **(Spa)**

[Kidney transplantation in patients with urinary diversions or with anomalies of the lower urinary tract] Ruiz Alvarez de Cienfuegos F. **Arch Esp Urol** 1996 Dec;49(10):1101–6 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Methods for bursting Foley catheter balloons [letter; comment] Kamat NN. **Br J Urol** 1997 Jul;80(1):192. Comment on: Br J Urol 1996 May;77(5):716–8.

Oral bolus cyclophosphamide--liberating libation or nauseating nostrum? [comment] McCune WJ. **J Rheumatol** 1996 Feb;23(2):212–3. Comment on: J Rheumatol 1996 Feb;23(2):273–8.

Intravesical methylmethacrylate after revision hip arthroplasty. McCallum TJ, et al. **J Urol** 1996 Nov; 156(5):1777

Pseudotumor formation in the bladder as a late complication of total hip replacement. Pang ST, et al. **J Urol** 1997 Jun; 157(6):2254

COMPLICATIONS

Spontaneous rupture of a vesicourachal diverticulum manifesting as acute abdominal pain. Lewis JB, et al. **Acad Emerg Med** 1996 Dec;3(12):1140–3

Unusual complications in siblings with marfanoid phenotype. de Silva DG, et al. **Arch Dis Child** 1996 Sep;75(3):247–8

Generalized peritonitis caused by spontaneous intraperitoneal rupture of the urinary bladder. Tabaru A, et al. **Intern Med** 1996 Nov;35(11):880–2

Panurothelial condyloma acuminatum with development of squamous cell carcinoma of the bladder and renal pelvis. Brüske T, et al. **J Urol** 1997 Feb;157(2):620–1

Herniation of the bladder trigone into an inguinal hernia causing acute urinary obstruction and acute renal failure. Laniewski PJ, et al. **J Urol** 1996 Oct;156(4):1438–9

Bladder prolapse in a female infant with complete epispadias. Ponsky LE, et al. **J Urol** 1997 Apr;157(4):1438 (3 ref.)

Is detrusor instability and hypertrophy a smooth-muscle disease of the lower urinary tract? [see comments] Malone-Lee J. **Lancet** 1996 Nov 23;348(9039):1395. Comment in: Lancet 1997 Feb 15;349(9050):505.

Is detrusor instability a prematurely activated (but otherwise normal) micturition reflex? [letter; comment] [see comments] Petros P, et al. **Lancet** 1997 Feb 15; 349(9050):505. Comment on: Lancet 1996 Nov 23;348(9039):1395. Comment in: Lancet 1997 Apr 26;349(9060):1255–6.

Neonatal urinary ascites due to unilateral vesicoureteric junction obstruction. Chun KE, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):455–7

[Bladder hernia apropos of a case report] Njeh M, et al. **Acta Urol Belg** 1996 Sep;64(3):55–7 (Eng. Abstr.) **(Fre)**

[Acute obstructive renal failure and scrotal complete hernia of the bladder. Apropos of a case, review of the literature] Mianné D, et al. **J Chir (Paris)** 1996;133(9–10):459–61 (14 ref.) (Eng. Abstr.) **(Fre)**

[Vesical malacoplakia accompanied with bilateral hydronephrosis: a case report] Nukui M, et al. **Hinyokika Kiyo** 1997 Jan;43(1):49–52 (14 ref.) (Eng. Abstr.) **(Jpn)**

[A case of vesical endometriosis associated with Wunderlich syndrome] Shishido T, et al. **Hinyokika Kiyo** 1997 May; 43(5):363–5 (Eng. Abstr.) **(Jpn)**

[The role of detrusor hypoxia in the pathogenesis of urination disorders in patients with benign prostatic hyperplasia] Loran OB, et al. **Urol Nefrol (Mosk)** 1996 Nov–Dec; (6):33–7 (Eng. Abstr.) **(Rus)**

[Urinary bladder dysfunction and vesicoureteral reflux in patients with enuresis] Kostić M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:88–9 (Eng. Abstr.) **(Scc)**

[Incidence of pelvic-genital static disorders in patients with urinary incontinence] Neri-Méndez C, et al. **Ginecol Obstet Mex** 1996 May;64:193–7 (Eng. Abstr.) **(Spa)**

CONGENITAL

Giant diverticulum of urinary bladder causing bilateral hydronephrosis in an adult. Diagnostic features on radionuclide scintigraphy. Sharma R, et al. **Clin Nucl Med** 1997 Jun;22(6):385–7

Congenital bladder perforation and urinary ascites caused by posterior urethral valves: a case report. Sahdev S, et al. **J Perinatol** 1997 Mar-Apr;17(2):164–5

DIAGNOSIS

MR appearances of urinary bladder in amyloidosis associated with multiple myeloma. Amano Y, et al. **Abdom Imaging** 1996 Sep-Oct;21(5):468–9

Techniques for imaging bladder support. Mouritsen L. **Acta Obstet Gynecol Scand Suppl** 1997;166:48–9

How to recognize patients with parkinsonism who should not have urological surgery. Chandiramani VA, et al. **Br J Urol** 1997 Jul;80(1):100–4

Ambulatory bladder monitoring: is it an advance? Heslington K. **Br J Urol** 1997 Jul;80 Suppl 1:49–53 (18 ref.)

The ice-water test in detrusor hyper-reflexia and bladder instability. Petersen T, et al. **Br J Urol** 1997 Feb;79(2):163–7

MR imaging of carcinoma within urinary bladder diverticulum. Durfee SM, et al. **Clin Imaging** 1997 Jul-Aug; 21(4):290–2

The contribution of urethrocystoscopy to evaluation of lower urinary tract dysfunction in women. Cundiff GW, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(6):307–11

Role of symptom scoring and uroflowmetry in patients with diabetic cystopathy. Ishigooka M, et al. **Int Urol Nephrol** 1996;28(6):761–6

Pseudotumour of the bladder. Sandhu SS, et al. **J R Soc Med** 1997 Jan;90(1):46–7

Pseudotumoral vesical actinomycosis. Guermazi A, et al. **J Urol** 1996 Dec;156(6):2002–3

MR imaging of bladder diseases. Teeger S, et al. **Magn Reson Imaging Clin N Am** 1996 Aug;4(3):565–81 (60 ref.)

The bladder is an unreliable witness [editorial] Blaivas JG. **Neurourol Urodyn** 1996;15(5):443–5

Cytoscopy as a diagnostic procedure in the investigation of chronic pelvic pain [letter] Krolikowski A, et al. **S Afr Med J** 1997 Feb;87(2 Suppl):231

Severe candida cystitis with perforation of the urinary bladder. Aanestad O, et al. **Scand J Urol Nephrol** 1997 Jun; 31(3):311–2

Intraperitoneal rupture of the urinary bladder: the value of diagnostic laparoscopy and repair. Gunnarsson U, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):53–5

[A giant bladder hernia. Apropos a case] Casanueva Luis T, et al. **Actas Urol Esp** 1997 Apr;21(4):434–6 (16 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Nasal spray desmopressin treatment of bladder dysfunction in patients with multiple sclerosis. Fredrikson S. **Acta Neurol Scand** 1996 Jul;94(1):31–4

Oxybutynin in the treatment of early detrusor instability after transurethral resection of the prostate. Iselin CE, et al. **Br J Urol** 1997 Jun;79(6):915–9

Diazepam for relief of irrigation pain after transurethral resection of the prostate. Nott MR, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):197–200

Pharmacokinetics and pharmacodynamics of tolterodine in man: a new drug for the treatment of urinary bladder overactivity. Brynne N, et al. **Int J Clin Pharmacol Ther** 1997 Jul;35(7):287–95

Malacoplakia of the bladder: efficacy of enoxacine therapy. Sawamura T, et al. **Int Urol Nephrol** 1996;28(2):175–9

Urinary bladder function and drug development [see comments] Ferguson D, et al. **Trends Pharmacol Sci** 1996 Apr;17(4):161–5 (60 ref.). Comment in: Trends Pharmacol Sci 1996 Sep;17(9):314–6.

5-HT4 receptor agonists and bladder disorders [letter; comment] Tonini M, et al. **Trends Pharmacol Sci** 1996 Sep; 17(9):314–6. Comment on: Trends Pharmacol Sci 1996 Apr;17(4):161–5.

Efficacy and safety of two doses of tolterodine versus placebo in patients with detrusor overactivity and symptoms of frequency, urge incontinence, and urgency: urodynamic evaluation. The International Study Group. Jonas U, et al. **World J Urol** 1997;15(2):144–51

ENZYMOLOGY

Antioxidant deficiency following clam enterocystoplasty. Barrington JW, et al. **Br J Urol** 1997 Aug;80(2):238–42

EPIDEMIOLOGY

Incidence of recurrent cystocele after anterior colporrhaphy with and without concomitant transvaginal needle suspension. Kohli N, et al. **Am J Obstet Gynecol** 1996 Dec; 175(6):1476–80; discussion 1480–2

ETIOLOGY

Spontaneous bladder perforation in paraplegia as a late complication of augmentation enterocystoplasty: case report. Rogers CJ, et al. **Arch Phys Med Rehabil** 1996 Nov; 77(11):1198–200

A successful pregnancy following placenta percreta with bladder invasion. Srichrishanthan S, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):92–3

Spontaneous bladder perforation: an unusual management problem of tuberculous cystitis. Kumar RV, et al.

Aust N Z J Surg 1997 Jan;67(1):69–70

Urogenital ageing and its effect on sexual health in older British women. Barlow DH, et al.
Br J Obstet Gynaecol 1997 Jan;104(1):87–91

Bladder, bowel and sexual function after hysterectomy for benign conditions. Thakar R, et al.
Br J Obstet Gynaecol 1997 Sep;104(9):983–7 (41 ref.)

Lower urinary tract symptoms in women: who to investigate and how. Abrams P. **Br J Urol** 1997 Jul;80 Suppl 1:43–8 (10 ref.)

Multiple sclerosis presenting solely with bladder disturbance [letter] Betts CD. **Br J Urol** 1997 Sep;80(3):513–4 (7 ref.)

Developments in our understanding of detrusor instability. Sibley GN. **Br J Urol** 1997 Jul;80 Suppl 1:54–61 (61 ref.)

Acutely inverted bladder through a vesicovaginal fistula: a complication of prolonged labour. Tomlinson AJ, et al. **Br J Urol** 1997 Jul;80(1):154

Imperforate hymen as a cause of bladder perforation and intestinal obstruction. Tuncer R, et al. **Br J Urol** 1997 Jun; 79(6):993–4

Paravesical mass following inguinal herniorraphy. Walsh IK, et al. **Br J Urol** 1996 Dec;78(6):957–8

Urinary bladder endometriosis: a report of two cases. Chen SS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jul; 58(1):66–9

Gaseous distention of the urinary bag indicating bladder perforation during laparoscopic pelvic procedures. Ho AM, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):297–8

Decreased bladder compliance in patients with myelomeningocele treated with radiological observation. Kaufman AM, et al. **J Urol** 1996 Dec;156(6):2031–3

Spontaneous rupture of the bladder as a complication of total vaginal prolapse. Lapointe SP, et al. **J Urol** 1997 Sep;158(3 Pt 1):884

Bladder dysfunction secondary to spinal cord amyloidosis. Sakamoto K, et al. **J Urol** 1997 Mar;157(3):949

Does isoniazid reduce side effects of intravesical bacillus Calmette–Guerin therapy in superficial bladder cancer? Interim results of European Organization for Research and Treatment of Cancer Protocol 30911. Vegt PD, et al.
J Urol 1997 Apr;157(4):1246–9

Placenta previa percreta with bladder invasion. Leaphart WL, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):834–5

A comparison of functional bladder damage after intravesical photodynamic therapy with three different photosensitizers. Post JG, et al. **Photochem Photobiol** 1996 Mar;63(3):314–21

A molecular biological approach to neuropathy of the urinary bladder/prostate in patients with spinal cord injury [letter] Vaidyanathan S, et al. **Spinal Cord** 1997 Aug;35(8):557–8

Placenta previa percreta with bladder involvement: new considerations and review of the literature. Silver LE, et al. **Ultrasound Obstet Gynecol** 1997 Feb;9(2):131–8

[Continuing neurologic assessment in myelodysplasia] Rapariz González MA, et al. **Arch Esp Urol** 1996 May; 49(4):399–403 (Eng. Abstr.) **(Spa)**

METABOLISM

Radioligand–binding analysis of human prostatic alpha–1 adrenoreceptor density following transurethral microwave therapy. Bdesha AS, et al. **Br J Urol** 1996 Dec;78(6):886–92

MICROBIOLOGY

Primary actinomycosis of the urinary bladder. Case report and review of the literature. Duca S, et al.
Acta Chir Belg 1996 Nov–Dec;96(6):295–7 (8 ref.)

Pseudotumoral vesical actinomycosis. Guermazi A, et al.
J Urol 1996 Dec;156(6):2002–3

PARASITOLOGY

Primary pelvic hydatid cyst. Unal S, et al.
J Clin Gastroenterol 1996 Dec;23(4):303–4

Clinical and radiologic findings in schistosomiasis of the bladder. Walker CJ, et al. **Urology** 1997 Jun;49(6):951–2

[Bladder bilharziosis] Sanz Chinesta S, et al.
Arch Esp Urol 1996 Jul–Aug;49(6):545–9 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Primary amyloidosis of the bladder: a case report. Tan SM, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):612–3

Bladder hamartoma. Duvenage GF, et al. **Br J Urol** 1997 Jan;79(1):133–4

Malakoplakia of urinary tract: report of two cases with emphasizing the histologic spectrum and the morphogenesis of Michaelis–Gutmann bodies. Ng KF, et al. **Chang Keng I Hsueh** 1996 Mar;19(1):55–61

Endocervical type glands in urinary bladder: a clinicopathologic study of six cases. Nazeer T, et al.
Hum Pathol 1996 Aug;27(8):816–20

Endocervicosis of the bladder: a rare mucinous analogue of endometriosis. Rodriguez R, et al. **J Urol** 1997 Apr; 157(4):1355 (3 ref.)

Müllerianosis of the urinary bladder. Young RH, et al.
Mod Pathol 1996 Jul;9(7):731–7

Pseudoneoplastic lesions of the urinary bladder and urethra: a selective review with emphasis on recent information. Young RH. **Semin Diagn Pathol** 1997 May;14(2):133–46 (83 ref.)

Intestinal metaplasia is not a strong risk factor for bladder cancer: study of 53 cases with long–term follow–up. Corica FA, et al. **Urology** 1997 Sep;50(3):427–31 (29 ref.)

[Inflammatory pseudotumor of the urinary bladder. Study of 4 cases and review of the literature] Foschini MP, et al. **Pathologica** 1995 Dec;87(6):653–8 (26 ref.) (Eng. Abstr.) **(Ita)**

[A case of primary localized amyloidosis of the urinary bladder] Takahashi A, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):903–5 (Eng. Abstr.) **(Jpn)**

[Vesical endometriosis. Report of a case with immunohistochemical study] Tarragona Foradada J, et al.
Arch Esp Urol 1997 Jan–Feb;50(1):74–6 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Differences in detrusor contractile function in women with neuropathic and idiopathic detrusor instability. Gray R, et al. **Br J Urol** 1997 Aug;80(2):222–6

The after–contraction in paediatric urodynamics [see comments] Hoebeke PB, et al. **Br J Urol** 1996 Nov; 78(5):780–2. Comment in: Br J Urol 1997 Jul;80(1):190–1. Comment in: Br J Urol 1997 Jul;80(1):191.

Development of the urodynamic pattern in infants with myelomeningocele. Sillén U, et al. **Br J Urol** 1996 Oct; 78(4):596–601

Urodynamic findings in the tethered spinal cord syndrome: does surgical release improve bladder function? [see comments] Fone PD, et al. **J Urol** 1997 Feb;157(2):604–9 . Comment in: J Urol 1997 Feb;157(2):615–6.

Pressure at residual volume: a useful adjunct to standard fill cystometry. Kaefer M, et al. **J Urol** 1997 Sep;158(3 Pt 2):1268–71

Neurourology––the last frontier [editorial; comment] Steers WD. **J Urol** 1997 Feb;157(2):615–6. Comment on: J Urol 1997 Feb;157(2):590–5. Comment on: J Urol 1997 Feb;157(2):596–9. Comment on: J Urol 1997 Feb;157(2):600–3. Comment on: J Urol 1997 Feb;157(2):604–9. Comment on: J Urol 1997 Feb;157(2):610–4.

Detrusor activity index: quantification of detrusor overactivity by ambulatory monitoring [see comments] van Waalwijk van Doorn ES, et al. **J Urol** 1997 Feb; 157(2):596–9. Comment in: J Urol 1997 Feb;157(2):615–6.

Changes in cholinergic and purinergic neurotransmission in pathologic bladder of chronic spinal rabbit. Yokota T, et al. **J Urol** 1996 Nov;156(5):1862–6

Proceedings of the 2nd Oslo Biennial Symposium on Lower Urinary Tract Physiology and Pathophysiology. Bladder contractility – normal emptying and emptying against obstruction. 17–18 November 1995.
Scand J Urol Nephrol Suppl 1997;184:1–97

Urinary bladder function and drug development [see comments] Ferguson D, et al. **Trends Pharmacol Sci** 1996 Apr;17(4):161–5 (60 ref.). Comment in: Trends Pharmacol Sci 1996 Sep;17(9):314–6.

Efficacy and safety of two doses of tolterodine versus placebo in patients with detrusor overactivity and symptoms of frequency, urge incontinence, and urgency: urodynamic evaluation. The International Study Group. Jonas U, et al. **World J Urol** 1997;15(2):144–51

[Experimental study of voiding dysfunction induced by cerebral infarction in rats] Ishiura Y.
Nippon Hinyokika Gakkai Zasshi 1996 Nov;87(11):1221–30 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Does isoniazid reduce side effects of intravesical bacillus Calmette–Guerin therapy in superficial bladder cancer? Interim results of European Organization for Research and Treatment of Cancer Protocol 30911. Vegt PD, et al.
J Urol 1997 Apr;157(4):1246–9

RADIOGRAPHY

Computed tomography findings in scrotal cystocele. Catalano O. **Eur J Radiol** 1995 Dec 15;21(2):126–7

Condyloma acuminatum of the bladder in a patient with AIDS: radiological findings. Jimenez Lasanta JA, et al.
J Clin Ultrasound 1997 Jul–Aug;25(6):338–40

Retrovesical hydatid cyst. Singh S, et al.
J Indian Med Assoc 1996 May;94(5):178

Decreased bladder compliance in patients with myelomeningocele treated with radiological observation. Kaufman AM, et al. **J Urol** 1996 Dec;156(6):2031–3

Incisional herniation of the bladder: CT findings. Catalano O.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Nov;165(5):508–9 (8 ref.)

Vesicovasal reflux: an imaging quandary. Bruce RG, et al.
Urology 1997 Jun;49(6):953–4

Clinical and radiologic findings in schistosomiasis of the bladder. Walker CJ, et al. **Urology** 1997 Jun;49(6):951–2

SURGERY

Incidence of recurrent cystocele after anterior colporrhaphy with and without concomitant transvaginal needle suspension. Kohli N, et al. **Am J Obstet Gynecol** 1996 Dec; 175(6):1476–80; discussion 1480–2

A new intraurethral sphincter prosthesis with a self contained urinary pump. Nativ O, et al. **ASAIO J** 1997 May–Jun; 43(3):197–203

A technique for the creation of a continent cutaneous urinary outlet: the serous–lined extramural ileal valve. Abol–Enein H, et al. **Br J Urol** 1996 Nov;78(5):791–2

The fate of the 'modern' artificial urinary sphincter with a follow–up of more than 10 years. Fulford SC, et al.
Br J Urol 1997 May;79(5):713–6

An unexpected complication of urinary stomata. Fumi L.
Br J Urol 1997 May;79(5):813

Vaginovesicostomy using absorbable staples. Khoudary KP, et al. **Br J Urol** 1997 Jan;79(1):127–8

Using a cystoscope sheath to perform urethro–vesical anastomosis [see comments] Pariente JL, et al.
Br J Urol 1996 Oct;78(4):641. Comment in: Br J Urol 1997 May;79(5):819.

Bowel problems after enterocystoplasty. Singh G, et al.
Br J Urol 1997 Mar;79(3):328–32

Supravesical diversion for incontinence: a long–term follow–up. Singh G, et al. **Br J Urol** 1997 Mar;79(3):348–53

Rehabilitation and nursing aspects of urological reconstructive surgery. Spraggon EM. **Br J Urol** 1997 Jul; 80 Suppl 1:82–3 (3 ref.)

Urinary diversion in children and young adults using the Mainz Pouch I technique. Stein R, et al. **Br J Urol** 1997 Mar;79(3):354–61

Urinary tract endometriosis treated by laparoscopy. Nezhat C, et al. **Fertil Steril** 1996 Dec;66(6):920–4

Bladder dysfunction in patients with benign prostatic hyperplasia: relevance of cystometry as prognostic indicator of the outcome after prostatectomy. Akino H, et al. **Int J Urol** 1996 Nov;3(6):441–7

Urodynamically based modification of Mitrofanoff procedure. Lorenzo JL, et al. **J Endourol** 1997 Feb; 11(1):77–81

Comparison of three–dimensional and two–dimensional laparoscopic video systems. McDougall EM, et al.
J Endourol 1996 Aug;10(4):371–4

Advances in the management of urinary incontinence in children. Van Savage J, et al. **J Ky Med Assoc** 1997 Jun; 95(6):226–34 (11 ref.)

Anterior flap extraperitoneal cystoplasty [see comments] Albo M, et al. **J Urol** 1997 Jun;157(6):2095–8. Comment in: J Urol 1997 Jun;157(6):2107–8.

A new vaginal procedure for cystocele repair and treatment of stress urinary incontinence [see comments] Benizri EJ, et al. **J Urol** 1996 Nov;156(5):1623–5. Comment in: J Urol 1996 Nov;156(5):1626–7.

Treatment results using pubovaginal slings in patients with large cystoceles and stress incontinence. Cross CA, et al.
J Urol 1997 Aug;158(2):431–4

The Hautmann neobladder with a chimney: a versatile modification. Lippert MC, et al. **J Urol** 1997 Oct; 158(4):1510–2

Minimizing morbidity from reconstructive bladder surgery [editorial; comment] Studer UE. **J Urol** 1997 Jun; 157(6):2107–8. Comment on: J Urol 1997 Jun;157(6):2095–8. Comment on: J Urol 1997 Jun;157(6):2099–103. Comment on: J Urol 1997 Jun;157(6):2104–6.

Combined reconstructive and prosthetic surgery in complicated lower urinary tract dysfunction [see comments] Theodorou C, et al. **J Urol** 1997 Feb; 157(2):472–4. Comment in: J Urol 1997 Feb;157(2):475.

Bladder autoaugmentation. Rivas DA, et al. **Tech Urol** 1995 Winter;1(4):181–7 (18 ref.)

Use of an augmented urinary bladder can be catastrophic in renal transplantation. Alfrey EJ, et al.
Transplant Proc 1997 Feb–Mar;29(1–2):154–5

Renal transplantation in children following augmentation ureterocystoplasty. Landau EH, et al. **Urology** 1997 Aug; 50(2):260–2

Sigmoid "tail" modification for bladder augmentation. Mathews R, et al. **Urology** 1997 Apr;49(4):609–11

Ileovesicostomy as an alternative form of bladder management in tetraplegic patients. Mutchnik SE, et al.
Urology 1997 Mar;49(3):353–7

Laparoscopic surgery in children with ventriculoperitoneal shunts: effect of pneumoperitoneum on intracranial pressure––preliminary experience. Uzzo RG, et al.
Urology 1997 May;49(5):753–7

[Are their individual decisions for urinary diversion? Indications and results of 200 consecutive patients] Krege S, et al. **Urologe A** 1996 Jul;35(4):291–6 (Eng. Abstr.) **(Ger)**

[Spontaneous intraperitoneal perforation of the urinary bladder––a rare cause of acute abdomen. 2 case reports] Steinert M, et al. **Zentralbl Chir** 1997;122(4):301–3; discussion 303–4 (Eng. Abstr.) **(Ger)**

[Primary localized amyloidosis of the urinary bladder: a case report] Maeda N, et al. **Hinyokika Kiyo** 1997 Jan;43(1):53–5 (Eng. Abstr.) **(Jpn)**

[A combination of a strangulated hernia of the bladder and a strangulated recurrent inguinal hernia] Kadyshev IuG, et al. **Klin Khir** 1995;(2):50 **(Rus)**

[Endoscopic surgery of bladder diverticulum] Errando Smet C, et al. **Actas Urol Esp** 1996 Oct;20(9):783–5 (Eng. Abstr.) **(Spa)**

[Ingelman intervention (transvaginal bladder denervation) with treatment of bladder instability] Garcia Penit FJ, et al. **Arch Esp Urol** 1996 Oct;49(8):843–7 (Eng. Abstr.) **(Spa)**

THERAPY

A medium–term analysis of the subjective efficacy of treatment for women with detrusor instability and low

BLADDER DISEASES

bladder compliance. Kelleher CJ, et al. **Br J Obstet Gynaecol** 1997 Sep;104(9):988–93

Physical predictors of infection in patients treated with clean intermittent catheterization: a prospective 7-year study. Bakke A, et al. **Br J Urol** 1997 Jan;79(1):85–90

The infusion trial of micturition. Lyth DR, et al. **Br J Urol** 1997 Jan;79(1):94–5

Sacral rhizotomies and electrical bladder stimulation in spinal cord injury. Part I: Clinical and urodynamic analysis. Dutch Study Group on Sacral Anterior Root Stimulation. Van Kerrebroeck EV, et al. **Eur Urol** 1997;31(3):263–71

Maximal electrical stimulation in children with unstable bladder and nocturnal enuresis and/or daytime incontinence: a controlled study. Tršinar B, et al. **Neurourol Urodyn** 1996;15(2):133–42

Short-term effect of pudendal nerve electrical stimulation on detrusor hyperreflexia in spinal cord injury patients: importance of current strength. Prévinaire JG, et al. **Paraplegia** 1996 Feb;34(2):95–9

Role of the four-corner bladder neck suspension to correct stress incontinence with a mild to moderate cystocele. Dmochowski RR, et al. **Urology** 1997 Jan;49(1):35–40

ULTRASONOGRAPHY

US evaluation of inguinoscrotal bladder hernias: report of three cases. Catalano O. **Clin Imaging** 1997 Mar–Apr; 21(2):126–8

Urinary bladder diverticula: sonographic diagnosis and interpretive pitfalls. Maynor CH, et al. **J Ultrasound Med** 1996 Mar;15(3):189–94

Scrotal cystocele detected by sonography. Weingardt JP, et al. **J Ultrasound Med** 1996 Jul;15(7):539–42

Scrotal cystocele associated with bladder cancer diagnosed by ultrasonography. Yağci C, et al. **J Ultrasound Med** 1996 Nov;15(11):793–5

In utero urinary bladder perforation, urinary ascites, and bilateral contained urinomas secondary to posterior urethral valves: clinical and imaging findings. Chen C, et al. **Pediatr Radiol** 1997 Jan;27(1):3–5

A possible use of color Doppler flow imaging in predicting the cause of bladder hypertrophy. Naya Y. **Tohoku J Exp Med** 1997 Jun;182(2):139–50

Placenta previa percreta with bladder involvement: new considerations and review of the literature. Silver LE, et al. **Ultrasound Obstet Gynecol** 1997 Feb;9(2):131–8

[Comparison of gynecologic and perineal ultrasound examination of women with stress incontinence] Fink D, et al. **Ultraschall Med** 1996 Dec;17(6):285–8 (Eng. Abstr.) **(Ger)**

URINE

Basic fibroblast growth factor in the urine of children with voiding pathology. Bägli DJ, et al. **J Urol** 1997 Sep;158(3 Pt 2):1123–7

VETERINARY

[Percutaneous cystoscopy in dogs and cats] Block A, et al. **Tierarztl Prax** 1996 Feb;24(1):68–72 (Eng. Abstr.) **(Ger)**

BLADDER DRUG ADMINISTRATION see **ADMINISTRATION, INTRAVESICAL**

BLADDER EXSTROPHY

Female bladder exstrophy. Crankson SJ, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1997;8(2):98–104 (123 ref.)

Bladder exstrophy. Duffy PG. **Semin Pediatr Surg** 1996 May; 5(2):129–32 (54 ref.)

BLOOD

Prostate-specific antigen in men born with bladder exstrophy. Silver RI, et al. **Urology** 1997 Feb;49(2):253–6

COMPLICATIONS

Vaginal stone in a teenager. Venet C, et al. **Br J Urol** 1997 May;79(5):804–5

Orthopaedic long term aspects of bladder exstrophy. Kantor R, et al. **Clin Orthop** 1997 Feb;(335):240–5

Penopubic flaps technique for the repair of epispadias with or without exstrophy: a preliminary report. Abasiyanik A, et al. **J Pediatr Surg** 1996 Sep;31(9):1225–8

Complete bladder duplication with exstrophy of 1 moiety in a male infant. Fouda-Neel K, et al. **J Urol** 1996 Oct; 156(4):1468

Urolithiasis in the exstrophy–epispadias complex. Silver RI, et al. **J Urol** 1997 Sep;158(3 Pt 2):1322–6 (20 ref.)

DIAGNOSIS

A 49-year-old woman with non-complicated exstrophy of the bladder. Ozdiler E, et al. **Int Urol Nephrol** 1996; 28(6):747–50

Covered exstrophy: a rare variant of classical bladder exstrophy. Sahoo SP, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):103–6 (14 ref.)

EMBRYOLOGY

Anatomical basis of a common embryological origin for epispadias and bladder or cloacal exstrophies. Beaudoin S, et al. **Surg Radiol Anat** 1997;19(1):11–6

EPIDEMIOLOGY

Treatment of patients with bladder exstrophy or incontinent epispadias. A long-term follow-up. Stein R, et al. **Eur Urol** 1997;31(1):58–64

ETIOLOGY

Spinal abnormalities in classic bladder exstrophy. Cadeddu JA, et al. **Br J Urol** 1997 Jun;79(6):975–8

Recurrent bladder exstrophy following cystolithotomy. Fouda-Neel K, et al. **Br J Urol** 1997 Jul;80(1):148

METABOLISM

Evaluation of smooth muscle and collagen subtypes in normal newborns and those with bladder exstrophy. Lee BR, et al. **J Urol** 1996 Dec;156(6):2034–6

RADIOGRAPHY

The pelvis of fetuses in the exstrophy complex. Wakim A, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):402–5

SURGERY

Management of bladder exstrophy and incontinent epispadias: 25 years of experience with urinary diversion. Stein R, et al. **Arch Esp Urol** 1997 Jan–Feb;50(1):91–102; discussion 102–4

Reconstruction of the mons venereum using omentum in female patients with epispadias/exstrophy. Ahmed S, et al. **Br J Urol** 1997 Jun;79(6):987–8

Rectus abdominis muscle flap (RAMF) technique for the management of bladder exstrophies: late clinical outcome and urodynamic findings. Celayir S, et al. **Br J Urol** 1997 Feb;79(2):276–8

Rectus abdominis muscle flap technique for the management of large defects [letter] Dewan PA. **Br J Urol** 1997 Sep; 80(3):511

A comparison of methods of repairing the symphysis pubis in bladder exstrophy by tensile testing. Sussman JS, et al. **Br J Urol** 1997 Jun;79(6):979–84

Social integration, sexual behavior and fertility in patients with bladder exstrophy--a long-term follow up. Stein R, et al. **Eur J Pediatr** 1996 Aug;155(8):678–83

One-stage reconstruction of bladder exstrophy. Fuchs J, et al. **Eur J Pediatr Surg** 1996 Aug;6(4):212–5

Bladder exstrophy in Sweden--a long-term follow-up study. Kockum CC, et al. **Eur J Pediatr Surg** 1996 Aug; 6(4):208–11

A pseudoexstrophy with penile anomaly. Sözübir S, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):55–6

Treatment of patients with bladder exstrophy or incontinent epispadias. A long-term follow-up. Stein R, et al. **Eur Urol** 1997;31(1):58–64

Unusual cloacal exstrophy in a male neonate with a normal penis and urethra. Sarin YK. **Indian Pediatr** 1996 Jan; 33(1):60–3

Endourologic management of ureterosigmoidostomy anastomotic stricture. McDougall EM, et al. **J Endourol** 1997 Apr;11(2):135–7

Penopubic flaps technique for the repair of epispadias with or without exstrophy: a preliminary report. Abasiyanik A, et al. **J Pediatr Surg** 1996 Sep;31(9):1225–8

Current urologic management of cloacal exstrophy: experience with 11 patients. Smith EA, et al. **J Pediatr Surg** 1997 Feb;32(2):256–61; discussion 261–2

Management of bladder exstrophy in adulthood: report of 2 cases. Gulati P, et al. **J Urol** 1997 Mar;157(3):947–8

A continence procedure using a single ureter as a nonrefluxing ureter and catheterizable neourethra. Joyner B, et al. **J Urol** 1997 Mar;157(3):968

Long-term results of ureterosigmoidostomy in children with bladder exstrophy. Koo HP, et al. **J Urol** 1996 Dec; 156(6):2037–40

Bladder exstrophy: evaluation of factors leading to continence with spontaneous voiding after staged reconstruction. Lottmann HB, et al. **J Urol** 1997 Sep;158(3 Pt 2):1041–4

Urethral lengthening with anterior bladder wall flap (Pippi Salle procedure): modifications and extended indications of the technique. Salle JL, et al. **J Urol** 1997 Aug; 158(2):585–90

Penile length in adulthood after exstrophy reconstruction. Silver RI, et al. **J Urol** 1997 Mar;157(3):999–1003

Long-term results of lower urinary tract reconstruction with the ceco-appendiceal unit. Tillem SM, et al. **J Urol** 1997 Apr;157(4):1429–33

Application of the Mitrofanoff principle in children with severe impairment of bladder function. Heij HA, et al. **Pediatr Surg Int** 1997 Apr;12(4):286–8

Current management of bladder exstrophy. Ben-Chaim J, et al. **Tech Urol** 1996 Spring;2(1):22–33 (66 ref.)

Bladder exstrophy: the case for primary bladder reconstruction [editorial] Canning DA. **Urology** 1996 Dec; 48(6):831–4

Primary urinary diversion in patients with bladder exstrophy [editorial] Hohenfellner R, et al. **Urology** 1996 Dec; 48(6):828–30

An alternative to the Penrose drain in children at risk for latex allergy. Vates TS, et al. **Urology** 1997 Mar;49(3):454–5

[Plastic repair of the anterior abdominal wall in bladder exstrophy] Gel'dt VG, et al. **Urol Nefrol (Mosk)** 1997 May–Jun;(3):34–6 (Eng. Abstr.) **(Rus)**

[The choice of the method for the surgical treatment of bladder exstrophy] Osipov IB, et al. **Urol Nefrol (Mosk)** 1996 Sep–Oct;(5):21–3 (Eng. Abstr.) **(Rus)**

THERAPY

Hip configuration and function in bladder exstrophy treated without pelvic osteotomy. Nordin S, et al. **J Pediatr Orthop B** 1996 Spring;5(2):119–22

BLADDER FISTULA

COMPLICATIONS

Enterovesical fistula presenting as life-threatening normal anion gap metabolic acidosis. Saxena R, et al. **Am J Kidney Dis** 1997 Jul;30(1):131–3

Crohn's disease presenting with Fournier's gangrene and enterovesical fistula. Brings HA, et al. **Am Surg** 1997 May; 63(5):401–5

Urine leakage from the umbilicus in a child with achondroplasia and tetraplegia (due to cervical stenosis): a safety vent for the obstructed neuropathic bladder. Krishnan KR, et al. **Int Urol Nephrol** 1997;29(1):45–51

Vesicouterine fistula--variable clinical presentation. al-Rifaei M, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):287–9

DIAGNOSIS

Enterovesical fistula presenting as life-threatening normal anion gap metabolic acidosis. Saxena R, et al. **Am J Kidney Dis** 1997 Jul;30(1):131–3

Laparoscopic diagnosis of appendicovesical fistula in a pediatric patient. Yamamoto H, et al. **Surg Laparosc Endosc** 1997 Jun;7(3):266–7

EPIDEMIOLOGY

Vesico-colic fistulae in the Grampian region: presentation, assessment, management and outcome. Driver CP, et al. **J R Coll Surg Edinb** 1997 Jun;42(3):182–5

ETIOLOGY

Pregnancy complicated by vesical calculus and vesicocutaneous fistula. Penning SR, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):728–9

Haematuria and vesico-cutaneous fistula after hip surgery. Memon FR, et al. **Br J Urol** 1997 Jun;79(6):1005–6

Vesico-adnexal fistula following endometriosis of an ovary. Yazawa K, et al. **Br J Urol** 1997 Apr;79(4):658

Vesico-uterine fistula--a rare complication of vacuum extraction in a patient with previous caesarean section. Yip SK, et al. **Br J Urol** 1997 Sep;80(3):502–3

Vesicouterine fistula--an analysis of 24 cases from Poland. Jóźwik M, et al. **Int J Gynaecol Obstet** 1997 May; 57(2):169–72

Vesicouterine fistula after a previous low vertical cesarean section (DeLee incision). Al Nuaim LA, et al. **Int J Gynaecol Obstet** 1996 Nov;55(2):161–2

Fistula formation after implanting an ePTFE membrane. A case report. Monteforte CA, et al. **J Reprod Med** 1997 Mar; 42(3):184–7

'Menouria'--a presentation of vesicouterine fistula. Bhutta SZ. **JPMA J Pak Med Assoc** 1996 Jul;46(7):159–61 (20 ref.)

[Vesicosigmoid fistula associated with bladder carcinoma: report of a case] Di Girolamo M, et al. **Radiol Med (Torino)** 1996 Dec;92(6):812–5 **(Ita)**

[Vesico-acetabular fistula occurring 10 years after total hip replacement] Hamano S, et al. **Hinyokika Kiyo** 1996 Oct; 42(10):743–5 (6 ref.) (Eng. Abstr.) **(Jpn)**

[A case report of ileovesical fistula in radiation enteritis] Ishibashi K, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep;87(9):1134–7 (Eng. Abstr.) **(Jpn)**

[Sigmoid-vesical fistula as a consequence of sigmoid tumor] Kazuka B, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):195–7 (Eng. Abstr.) **(Pol)**

RADIOGRAPHY

3-dimensional computerized tomographic reconstruction of colovesical fistulas. Anderson GA, et al. **J Urol** 1997 Sep; 158(3 Pt 1):795–7

RADIONUCLIDE IMAGING

Diuretic renography findings in enterovesical fistula. Kao PF, et al. **Br J Radiol** 1997 Apr;70:421–3

Vesico-colic fistula. An unexpected finding on Tc-99m MDP bone imaging. Balan KK, et al. **Clin Nucl Med** 1997 Mar; 22(3):192–3

SURGERY

Enterovesical fistula: 10 years experience. Hsieh JH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 May;59(5):283–8

Surgically correcting a vesicouterine fistula with a myouterine flap. A case report. Char D, et al. **J Reprod Med** 1997 Jun;42(6):372–4

Vesicovaginal and vesicocutaneous fistulas: transurethral suture cystorrhaphy as a new closure technique. McKay HA. **J Urol** 1997 Oct;158(4):1513–6

[Laparoscopic treatment of colovesical fistulas. Our experience with 11 cases] Petropoulos P, et al. **Rev Med Suisse Romande** 1997 Feb;117(2):95–8 **(Fre)**

[Vesicouterine fistula: a case report] Tanaka K, et al. **Hinyokika Kiyo** 1996 Aug;42(8):601–3 (Eng. Abstr.) **(Jpn)**

THERAPY

Percutaneous ureteral clipping: long-term results and complications. Farrell T, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):453–6

BLADDER NECK OBSTRUCTION

BLOOD

Serum creatinine measurements in men with lower urinary tract symptoms secondary to benign prostatic hyperplasia. Gerber GS, et al. **Urology** 1997 May;49(5):697–702

COMPLICATIONS

Urinary obstruction causes irreversible renal failure by inducing chronic tubulointerstitial nephritis. Coroneos E, et al. **Clin Nephrol** 1997 Aug;48(2):125–8

Secondary distal renal tubular acidosis in association with urological abnormalities [letter] Sharma RK, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):233

Ice water test in patients with overactive bladder due to cerebrovascular accidents and bladder outlet obstruction. Ishigooka M, et al. **Urol Int** 1997;58(2):84–7

[Tubulointerstitial kidney diseases in urinary tract infection, reflux and obstruction] Krautzig S, et al. **Internist (Berl)** 1996 Nov;37(11):1096–110 (61 ref.) **(Ger)**

[Bladder neck obstruction associated with pontine hemorrhage: report of two cases] Takahashi T, et al. **Hinyokika Kiyo** 1997 Feb;43(2):149–52 (Eng. Abstr.) **(Jpn)**

CONGENITAL

Early detection of bladder dysfunction following posterior urethral valves ablation. De Gennaro M, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):163–5

DIAGNOSIS

Is obstruction predictable by clinical evaluation in patients with lower urinary tract symptoms? Madersbacher S, et al. **Br J Urol** 1997 Jul;80(1):72–7

Pressure–flow studies in the diagnosis of bladder outlet obstruction: a study comparing suprapubic and transurethral techniques. Walker RM, et al. **Br J Urol** 1997 May;79(5):693–7

Manual versus computer methods for diagnosing obstruction from pressure–flow tracings in patients with benign prostatic hyperplasia. Trucchi A, et al. **J Urol** 1997 Mar; 157(3):871–5

Lack of correlation of the American Urological Association Symptom 7 Index with urodynamic bladder outlet obstruction. Sirls LT, et al. **Neurourol Urodyn** 1996; 15(5):447–56; discussion 457

Correlations between parameters in uroflowmetry and histological compositions in patients with benign prostatic hyperplasia. Ishigooka M, et al. **Urol Int** 1996;57(1):48–50

Prediction of prostatic obstruction with a combination of isometric detrusor contraction pressure and maximum urinary flow rate. Comiter CV, et al. **Urology** 1996 Nov; 48(5):723–9; discussion 729–30

[Prostatitis and bladder neck obstruction (editorial)] Jiménez Cruz JF. **Actas Urol Esp** 1997 Apr;21(4):315–8 (13 ref.) **(Spa)**

DRUG THERAPY

Urodynamic effects of doxazosin in men with lower urinary tract symptoms and benign prostatic obstruction. Results from three double-blind placebo-controlled studies. Abrams P. **Eur Urol** 1997;32(1):39–46

The effect of angiotensin converting enzyme inhibition and angiotensin II receptor antagonism on obstructed rat bladder. Palmer LS, et al. **J Urol** 1997 Sep;158(3 Pt 2):1100–4

Doxazosin in men with lower urinary tract symptoms: urodynamic evaluation at 15 months. Gerber GS, et al. **Urology** 1997 Aug;50(2):229–33

Effect of terazosin on prostatism in men with normal and abnormal peak urinary flow rates. Lepor H, et al. **Urology** 1997 Mar;49(3):476–80

Urodynamic and clinical effects of terazosin therapy in symptomatic patients with and without bladder outlet obstruction: a stratified analysis. Witjes WP, et al. **Urology** 1997 Feb;49(2):197–205; discussion 205–6

[Drug therapy of benign prostatic hyperplasia] Vahlensieck W Jr, et al. **Fortschr Med** 1996 Nov 10;114(31):407–11 (0 ref.) (Eng. Abstr.) **(Ger)**

[LH-RH agonists as therapeutic alternative in patients with benign prostatic hyperplasia (BPH) and surgical contraindication. Long term follow up] Granados Loarca EA, et al. **Arch Esp Urol** 1996 Nov;49(9):923–7 (Eng. Abstr.) **(Spa)**

EMBRYOLOGY

Partial bladder outlet obstruction in the fetal rabbit. Rohrmann D, et al. **J Urol** 1997 Sep;158(3 Pt 2):1071–4

Compliance of the obstructed fetal rabbit bladder. Rohrmann D, et al. **Neurourol Urodyn** 1997;16(3):179–89

ENZYMOLOGY

Properties of Ca2(+)-Mg2+ ATP-ase in rabbit bladder muscle and mucosa: effect of urinary outlet obstruction. Haugaard N, et al. **Neurourol Urodyn** 1996;15(5):555–61

The role of type IV collagenases in rat bladder development and obstruction. Sutherland RS, et al. **Pediatr Res** 1997 Mar;41(3):430–4

[Pattern of distribution of constitutive isoforms of NO synthase in the normal prostate and obstructive prostatic hyperplasia] Klotz T, et al. **Urologe A** 1997 Jul;36(4):318–22 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Urological complications in renal transplantation. A comparison between living-related and cadaveric grafts. Cimic J, et al. **Eur Urol** 1997;31(4):433–5

Proximal urinary diversion in the management of posterior urethral valves: is it necessary? Tietjen DN, et al. **J Urol** 1997 Sep;158(3 Pt 2):1008–10

ETIOLOGY

Animal models of bladder outlet obstruction and molecular insights into the basis for the development of bladder dysfunction. Buttyan R, et al. **Eur Urol** 1997;32 Suppl 1:32–9

Cellular and molecular aspects of bladder hypertrophy. Levin RM, et al. **Eur Urol** 1997;32 Suppl 1:15–21

Intraprostatic cyst—a cause of bladder outflow obstruction. Ng KJ, et al. **J R Soc Med** 1996 Dec;89(12):708–9

Retropubic cystourethropexy: is it an obstructive procedure? Bélair G, et al. **J Urol** 1997 Aug;158(2):533–8

Urodynamic risk factors for renal dysfunction in men with obstructive and nonobstructive voiding dysfunction. Comiter CV, et al. **J Urol** 1997 Jul;158(1):181–5

Re: The value of symptom score, quality of life score, maximal urinary flow rate, residual volume and prostate size for the diagnosis of obstructive benign prostatic hyperplasia: a urodynamic analysis [letter; comment] Haab F. **J Urol** 1997 Jun;157(6):2266–7. Comment on: J Urol 1996 Jun;155(6):2014–8.

The International Continence Society "Benign Prostatic Hyperplasia" Study: international differences in lower urinary tract symptoms and related bother. Witjes WP, et al. **J Urol** 1997 Apr;157(4):1295–300

Serum creatinine measurements in men with lower urinary tract symptoms secondary to benign prostatic hyperplasia. Gerber GS, et al. **Urology** 1997 May;49(5):697–702

Urodynamic and clinical effects of noninvasive and minimally invasive treatments in elderly men with lower urinary tract symptoms stratified according to the grade of obstruction. Witjes WP, et al. **Urology** 1997 Jul;50(1):55–61

METABOLISM

Detrusor instability as an energy-saving device in prostatic obstruction. Cucchi A, et al. **J Urol** 1997 Mar;157(3):866–70

Effects of acute complete outlet obstruction on the NADPH-diaphorase reactivity in the intramural ganglia of the guinea pig urinary bladder: light and electron microscopic studies. Zhou Y, et al. **J Urol** 1997 Sep;158(3 Pt 1):916–23

Effect of partial outlet obstruction on 14C-adenine incorporation in the rabbit urinary bladder. Hypolite JA, et al. **Neurourol Urodyn** 1997;16(3):201–8

Smooth-muscle myosin heavy-chain isoform expression in bladder-outlet obstruction. Cher ML, et al. **World J Urol** 1996;14(5):295–300

PATHOLOGY

Angiotensin II and bladder obstruction in the rat: influence on hypertrophic growth and contractility. Persson K, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1186–92

Modification of bladder structure in response to outflow obstruction and ageing. Gosling JA. **Eur Urol** 1997;32 Suppl 1:9–14

Bladder consequences of prostatic obstruction. Mauroy B. **Eur Urol** 1997;32 Suppl 1:3–8

Time-dependent remodeling of the bladder wall in growing rabbits after partial outlet obstruction. Pampinella F, et al. **J Urol** 1997 Feb;157(2):677–82

Effects of acute complete outlet obstruction on the NADPH-diaphorase reactivity in the intramural ganglia of the guinea pig urinary bladder: light and electron microscopic studies. Zhou Y, et al. **J Urol** 1997 Sep;158(3 Pt 1):916–23

Partial outlet obstruction induces chronic distension and increased stiffness of rat urinary bladder. Damaser MS, et al. **Neurourol Urodyn** 1996;15(6):650–65

A seven-month-old male infant with lethargy and an abdominal mass [clinical conference] McKiernan C, et al. **Pediatr Emerg Care** 1996 Jun;12(3):228–32

Bladder neck leiomyoma causing obstructive renal failure. Loh CS, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):495–6

Smooth muscle development in the obstructed fetal bladder. Freedman AL, et al. **Urology** 1997 Jan;49(1):104–7

[Clinical relevance of incidental prostate carcinoma. A retrospective study] Schürholz T, et al. **Urologe A** 1996 Jul;35(4):315–20 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Angiotensin II and bladder obstruction in the rat: influence on hypertrophic growth and contractility. Persson K, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1186–92

Micturition in conscious rats with and without bladder outlet obstruction: role of spinal alpha 1-adrenoceptors. Ishizuka O, et al. **Br J Pharmacol** 1996 Mar;117(5):962–6

Comparison of patients' assessment of urinary flow strength with uroflowmetry. Small DR, et al. **Eur Urol** 1997; 31(2):148–52

Two mathematical models explain the variation in cystometrograms of obstructed urinary bladders. Damaser MS, et al. **J Biomech** 1996 Dec;29(12):1615–9

Urodynamic risk factors for renal dysfunction in men with obstructive and nonobstructive voiding dysfunction. Comiter CV, et al. **J Urol** 1997 Jul;158(1):181–5

Detrusor instability as an energy-saving device in prostatic obstruction. Cucchi A, et al. **J Urol** 1997 Mar;157(3):866–70

This month in investigative urology. Progressive changes in detrusor function with bladder outlet obstruction. Gray M. **J Urol** 1997 Aug;158(2):318

Significant correlation of the American Urological Association symptom score and a novel urodynamic parameter: detrusor contraction duration. Kaplan SA, et al. **J Urol** 1996 Nov;156(5):1668–72

Effects of tadenan pretreatment on bladder physiology and biochemistry following partial outlet obstruction. Levin RM, et al. **J Urol** 1996 Dec;156(6):2084–8

In vivo cystometric evaluation of progressive bladder outlet obstruction in rats. O'Connor LT Jr, et al. **J Urol** 1997 Aug;158(2):631–5

Primary bladder neck obstruction: urodynamic findings and treatment results in 36 men. Trockman BA, et al. **J Urol** 1996 Oct;156(4):1418–20

Detrusor contractility in hyperreflexic bladders (from intracerebral neuropathies) versus unstable and stable unobstructed ones. Cucchi A. **Neurourol Urodyn** 1996; 15(2):109–15; discussion 115–7

Partial outlet obstruction induces chronic distension and increased stiffness of rat urinary bladder. Damaser MS, et al. **Neurourol Urodyn** 1996;15(6):650–65

Standardization of terminology of lower urinary tract function: pressure–flow studies of voiding, urethral resistance, and urethral obstruction. International Continence Society Subcommittee on Standardization of Terminology of Pressure–Flow Studies. Griffiths D, et al. **Neurourol Urodyn** 1997;16(1):1–18

Effects of spinal alpha 1-adrenoceptor antagonism on bladder activity induced by apomorphine in conscious rats with and without bladder outlet obstruction. Ishizuka O, et al. **Neurourol Urodyn** 1997;16(3):191–200

Effect of thapsigargin on the contractile response of the normal and obstructed rabbit urinary bladder. Rohrmann D, et al. **Pharmacology** 1996 Feb;52(2):119–24

Emptying against outflow obstruction—pharmacological aspects. Andersson KE. **Scand J Urol Nephrol Suppl** 1997; 184:77–84 (83 ref.)

Alterations in the physiological properties of urinary bladder smooth muscle caused by bladder emptying against an obstruction. Brading AF. **Scand J Urol Nephrol Suppl** 1997; 184:51–8 (46 ref.)

Contractile protein changes in urinary bladder smooth muscle during obstruction-induced hypertrophy. Chacko S, et al. **Scand J Urol Nephrol Suppl** 1997;184:67–76 (82 ref.)

Etiology of bladder dysfunction secondary to partial outlet obstruction. Calcium disregulation in bladder power generation and the ability to perform work. Levin RM, et al. **Scand J Urol Nephrol Suppl** 1997;184:43–50

Changed metabolism of detrusor muscle cells from obstructed rat urinary bladder. Uvelius B, et al. **Scand J Urol Nephrol Suppl** 1997;184:59–65 (27 ref.)

Denervation and outlet obstruction induce a net synthesis of contractile and cytoskeletal proteins in the urinary bladder of the male rat. Berggren T, et al. **Urol Res** 1996; 24(3):135–40

Effect of ischemia and partial outflow obstruction on rat bladder function. Saito M, et al. **Urol Res** 1997;25(3):207–11

Restoration of rat bladder function following release of short- and long-term partial outflow obstruction. Saito M, et al. **Urol Res** 1997;25(3):193–7

The role of urodynamic study in the evaluation and management of men with lower urinary tract symptoms secondary to benign prostatic hyperplasia. Gerber GS. **Urology** 1996 Nov;48(5):668–75 (88 ref.)

Quantitative assessment of uroflow: is there a circadian rhythm? Witjes WP, et al. **Urology** 1997 Aug;50(2):221–8

Effects of partial outlet obstruction on bladder-strip sensitivity to glucose deprivation: an in vitro study in the rat. Kwon HY, et al. **World J Urol** 1996;14 Suppl 1:S38–42

[Urethral opening pressure: its clinical significance in prostatic obstruction] Ameda K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Apr;88(4):496–502 (Eng. Abstr.) **(Jpn)**

[Determination of infravesical obstruction in men with benign prostatic hyperplasia using pressure–flow measurement and analysis with the Dx/CLIM software program] Svihra J, et al. **Bratisl Lek Listy** 1997 Jan;98(1):28–31 (Eng. Abstr.) **(Slo)**

BLADDER NECK OBSTRUCTION

PREVENTION & CONTROL

Effects of tadenan pretreatment on bladder physiology and biochemistry following partial outlet obstruction. Levin RM, et al. **J Urol** 1996 Dec;156(6):2084–8

Captopril (an inhibitor of angiotensin converting enzyme) inhibits obstructive changes in the neonatal rabbit bladder. Cheng EY, et al. **Urology** 1997 Sep;50(3):465–71

RADIOTHERAPY

The use of a simple home flow test as a quality indicator for male patients treated for lower urinary tract symptoms suggestive of bladder outlet obstruction. Hansen MV, et al. **Eur Urol** 1997;32(1):34–8

SURGERY

A comparative study of laser ablation and transurethral electroresection for benign prostatic hyperplasia: results of a 6-month follow-up [published erratum appears in Br J Urol 1997 Feb;79(2):304] Sengör F, et al. **Br J Urol** 1996 Sep;78(3):398–400

The management of patients with advanced cancer (II). Heys SD, et al. **Eur J Surg Oncol** 1997 Jun;23(3):257–63 (69 ref.)

The use of a simple home flow test as a quality indicator for male patients treated for lower urinary tract symptoms suggestive of bladder outlet obstruction. Hansen MV, et al. **Eur Urol** 1997;32(1):34–8

Lasers in the treatment of benign prostatic obstruction: past, present, and future. te Slaa E, et al. **Eur Urol** 1996; 30(1):1–10 (51 ref.)

Sequential laparoscopic bladder diverticulectomy and transurethral resection of the prostate. Iselin CE, et al. **J Endourol** 1996 Dec;10(6):545–9

Holmium:YAG laser prostatectomy: results of U.S. pilot study. Kabalin JN. **J Endourol** 1996 Oct;10(5):453–7

Visual laser coagulation of the prostate using intraurethral gel anesthesia and light intravenous analgesia and sedation. Karlsen SJ, et al. **J Endourol** 1996 Aug;10(4):389–91

Reversible change of bladder hypertrophy due to benign prostatic hyperplasia after surgical relief of obstruction [see comments] Kojima M, et al. **J Urol** 1997 Jul;158(1):89–93 . Comment in: J Urol 1997 Jul;158(1):100–1.

Prostate heating patterns comparing electrosurgical transurethral resection and vaporization: a prospective randomized study [see comments] Patel A, et al. **J Urol** 1997 Jan;157(1):169–72. Comment in: J Urol 1997 Jan;157(1):184.

Nerve block in prostate surgery. Tabet BG, et al. **J Urol** 1996 Nov;156(5):1659–61

Transurethral vaporization of the prostate in the treatment of bladder outlet obstruction at two university hospitals. Gerber GS, et al. **Tech Urol** 1997 Spring;3(1):25–9

Transurethral needle ablation (TUNA) of the prostate: a clinical and urodynamic evaluation. Campo B, et al. **Urology** 1997 Jun;49(6):847–50

[An unusual complication of anterograde endopyelotomy: ureteral intussusception (a case report)] el Khader K, et al. **Prog Urol** 1997 Apr;7(2):273–6 (14 ref.) (Eng. Abstr.) **(Fre)**

[Transurethral laser ablation of the prostate in high risk patients with obstructive benign prostatic hyperplasia. Perioperative morbidity and 6 month outcome in 72 patients] Miller J, et al. **Urologe A** 1997 Mar;36(2):165–72 (Eng. Abstr.) **(Ger)**

[Compartment syndrome: a complication of lithotomy position] Raum MR, et al. **Urologe A** 1996 Jan;35(1):46–50 (Eng. Abstr.) **(Ger)**

[Our experience with prostatic incision (TUIP) with local anesthesia] Del Boca C, et al. **Arch Ital Urol Androl** 1997 Feb;69(1):23–8 (Eng. Abstr.) **(Ita)**

[Echographic study of the bladder neck and prostate region after Nd-Yag laser treatment] Guercini F, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):75–8 (Eng. Abstr.) **(Ita)**

[A transurethral endoscopic incision in the treatment of patients with benign prostatic hyperplasia and bladder neck sclerosis] Gorilovskiĭ ML, et al. **Urol Nefrol (Mosk)** 1996 May-Jun;(3):47–51 (79 ref.) **(Rus)**

[The use of the holmium laser for treating strictures of the urethra and bladder neck in men] Mazo EB, et al. **Urol Nefrol (Mosk)** 1996 Sep-Oct;(5):27–33 (Eng. Abstr.) **(Rus)**

THERAPY

Transurethral hyperthermia for relieving obstructive voiding symptoms in patients with hormone refractory prostate cancer. Nativ O, et al. **Isr J Med Sci** 1997 Mar;33(3):182–5

Primary bladder neck obstruction: urodynamic findings and treatment results in 36 men. Trockman BA, et al. **J Urol** 1996 Oct;156(4):1418–20

Symptomatic outcome of transurethral prostatectomy, alpha-blockade and placebo in the treatment of benign prostatic hyperplasia. Evaluation of treatment with the Danish Prostatic Symptom Score (DAN-PSS-1) system. The ALFECH Study Group. Hansen BJ, et al. **Scand J Urol Nephrol** 1996 Apr;30(2):103–7

Comparison between first-generation (fixed-caliber) and second-generation (self-expanding, large caliber) temporary prostatic stents. Yachia D, et al. **Urol Int** 1996; 57(3):165–9

Long-term outcome of prostatic stent treatment for benign prostatic hyperplasia. Chiou RK, et al. **Urology** 1996 Oct; 48(4):589–93

[Long-term results of wall stent implantation in benign prostatic hyperplasia and high risk status] Goepel M, et al. **Urologe A** 1997 Mar;36(2):151–6 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Prenatally diagnosed ureterocele presenting as fetal bladder outlet obstruction. Gloor JM, et al. **J Perinatol** 1996 Jul-Aug;16(4):285–7 (18 ref.)

The sonographic diagnosis of infravesical obstruction in children: evaluation of bladder wall thickness indexed to bladder filling [see comments] Kaefer M, et al. **J Urol** 1997 Mar;157(3):989–91. Comment in: J Urol 1997 Mar;157(3):996–7.

Increased renal echogenicity: a sonographic sign for differentiating between obstructive and nonobstructive etiologies of in utero bladder distension. Kaefer M, et al. **J Urol** 1997 Sep;158(3 Pt 2):1026–9

Noninvasive quantitative estimation of infravesical obstruction using ultrasonic measurement of bladder weight. Kojima M, et al. **J Urol** 1997 Feb;157(2):476–9

[Echodynamics of the cervical ureter junction] Callea A, et al. **Arch Ital Urol Androl** 1997 Jun;69(3):185–7 (Eng. Abstr.) **(Ita)**

[Echographic study of the bladder neck and prostate region after Nd-Yag laser treatment] Guercini F, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):75–8 (Eng. Abstr.) **(Ita)**

BLADDER NEOPLASMS

Leiomyosarcoma of urinary bladder: personal experience in 3 cases over a 10-year period. De Berardinis E, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:73–80 (33 ref.)

Cutaneous metastases from transitional cell carcinomas of the bladder and renal pelvis. Chitale SV, et al. **Br J Urol** 1997 Feb;79(2):292–3

The accuracy of recording of occupational history in patients with bladder cancer. McCahy PJ, et al. **Br J Urol** 1997 Jan;79(1):91–3

The appendix as a metastatic target for male urogenital tumours. Stein A, et al. **Br J Urol** 1996 Oct;78(4):647–8

Diagnosis and treatment of superficial transitional cell carcinoma of the bladder: facts and perspectives. Kurth KH. **Eur Urol** 1997;31 Suppl 1:10–9 (72 ref.)

Malignant pheochromocytoma of the bladder: current controversies. Piédrola G, et al. **Eur Urol** 1997;31(1):122–5

Primary adenocarcinoma of the bladder presenting during pregnancy. An unusual case report. Rajan N, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(5):267–9 (18 ref.)

Bladder adenocarcinoma during pregnancy: a case report. FitzGerald MP, et al. **J Reprod Med** 1996 Jan;41(1):59–63

Paraneoplastic polymyositis associated with transitional cell carcinoma of the bladder. Bouropoulos C, et al. **J Urol** 1997 Mar;157(3):950–1

Bladder cancer [editorial; comment] Droller MJ. **J Urol** 1997 Apr;157(4):1266–7. Comment on: J Urol 1997 Apr;157(4):1254–8; discussion 1258–9. Comment on: J Urol 1997 Apr;157(4):1260–4; discussion 1264–5.

Bladder pheochromocytoma in a 10-year-old girl. Pinto KJ, et al. **J Urol** 1997 Aug;158(2):583–4

Bladder cancer [editorial; comment] Pontes JE. **J Urol** 1996 Nov;156(5):1609–10. Comment on: J Urol 1996 Nov;156(5):1597–601. Comment on: J Urol 1996 Nov;156(5):1602–5. Comment on: J Urol 1996 Nov;156(5):1606–8.

P53 accumulation, deoxyribonucleic acid ploidy and progression of bladder cancer. Raitanen MP, et al. **J Urol** 1997 Apr;157(4):1250–3

Karolinska Institute disowns work of cancer researcher [news] Butler D. **Nature** 1997 Aug 28;388(6645):816

'Spontaneous' regression of advanced leiomyosarcoma of the urinary bladder. Lei KI, et al. **Oncology** 1997 Jan-Feb; 54(1):19–22 (20 ref.)

Superficial bladder cancer: decreasing the risk of recurrence. Grossman HB. **Oncology (Huntingt)** 1996 Nov; 10(11):1617–24; discussion 1624, 1627–8 (59 ref.)

A model of orthotopic murine bladder (MBT-2) tumor implants. Jiang F, et al. **Urol Res** 1997;25(3):179–82

Inflammatory (pseudosarcomatous) myofibroblastic tumor of the bladder. Lakshmanan Y, et al. **Urology** 1997 Aug; 50(2):285–8

Non-Hodgkin's lymphoma with bladder involvement. Peterson AC, et al. **Urology** 1997 Sep;50(3):444–5

Bladder cancer. Soloway MS. **Urology** 1996 Oct;48(4):631

[Urinary bladder tumors. Report of the Danish Bladder-cancer Committee 1993] **Ugeskr Laeger** 1997;159 Suppl 1:1–14 **(Dan)**

[Urinary bladder transitional cell carcinoma with trophoblastic differentiation] Moldavsky M, et al. **Harefuah** 1997 Apr 1;132(7):452–4, 528 (Eng. Abstr.) **(Heb)**

[Concentration of asbestos fibers in urothelial tumors and in the neoplasm-free bladder wall] Pollice L, et al. **G Ital Med Lav** 1995 Jan-Nov;17(1-6):11–5 (Eng. Abstr.) **(Ita)**

[Unusual benign mass of the bladder in children: report of 2 cases] Bolli V, et al. **Radiol Med (Torino)** 1996 Jul-Aug; 92(1-2):154–6 **(Ita)**

[A case of paraganglioma of urinary bladder in a 96-year-old female] Miyata Y, et al. **Hinyokika Kiyo** 1997 Feb; 43(2):145–7 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of grade 3 superficial bladder cancer] Shinohara M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Jun;87(6):892–9 (Eng. Abstr.) **(Jpn)**

[Diagnosis and treatment of bladder and prostate cancer in early stages] Watanabe H, et al. **Nippon Rinsho** 1996 May; 54(5):1405–9 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Bladder leiomyosarcoma in a young man with a transplant. Report of a case] Armas Molina JV, et al. **Actas Urol Esp** 1997 Mar;21(3):283–6 (Eng. Abstr.) **(Spa)**

[Bladder paraganglioma. Report of a case and review of the Spanish literature] Chesa Ponce N, et al. **Actas Urol Esp** 1997 Jan;21(1):52–6 (15 ref.) (Eng. Abstr.) **(Spa)**

[Myasthenia gravis as paraneoplastic syndrome in small cell tumor of the bladder] Domínguez Molinero JF, et al. **Actas Urol Esp** 1997 Mar;21(3):268–71 (Eng. Abstr.) **(Spa)**

[Post-cystectomy pelvic recurrence (clinical conference)] Jiménez Cruz JF, et al. **Actas Urol Esp** 1996 Jun;20(6):593–6 **(Spa)**

[Bladder urothelial carcinoma in patients under 10 years of age: report of 2 new cases] Muñoz-Delgado Salmerón J, et al. **Actas Urol Esp** 1997 Jan;21(1):57–9 (14 ref.) (Eng. Abstr.) **(Spa)**

[Transitional tumor of the bladder in an teenager. Preliminary note] Pellicé i Vilalta C Jr, et al. **Actas Urol Esp** 1997 Jan; 21(1):49–51 (13 ref.) (Eng. Abstr.) **(Spa)**

[Retrotrigonal bladder lymphoma] Rodríguez Martín F, et al. **Actas Urol Esp** 1996 Nov-Dec;20(10):900–3 (10 ref.) (Eng. Abstr.) **(Spa)**

[Bladder leiomyosarcoma. Report of a new case] Sánchez Gómez E. **Actas Urol Esp** 1996 Oct;20(9):829–31 (Eng. Abstr.) **(Spa)**

[Secondary bladder lymphoma in a patient with AIDS] Vendrell JR, et al. **Actas Urol Esp** 1996 Oct;20(9):832–4 (Eng. Abstr.) **(Spa)**

[Prognosis prediction in patients with transitional cell carcinoma of the urinary bladder] Angulo Cuesta J, et al. **Arch Esp Urol** 1996 May;49(4):374–84 (Eng. Abstr.) **(Spa)**

[Inverted carcinoma of kidney pelvis coexisting with transitional cell carcinoma of the bladder. A therapeutic alternative] Díaz Calleja E, et al. **Arch Esp Urol** 1997 Mar; 50(2):189–92 (9 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Clinical relevance of CYFRA 21-1, TPA-IRMA and TPA-LIA-mat in urinary bladder cancer. Stieber P, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3793–8

Different hCG assays to measure ectopic hCG secretion in bladder carcinoma patients. Mora J, et al. **Br J Cancer** 1996 Oct;74(7):1081–4

Plasma mitomycin C concentrations determined by HPLC coupled to solid-phase extraction. Paroni R, et al. **Clin Chem** 1997 Apr;43(4):615–8

von Willebrand factor antigen in blood plasma of patients with urinary bladder carcinoma. Ziętek Z, et al. **Thromb Res** 1996 Sep 1;83(5):399–402

Early results of the value of p53 in predicting survival in a homogeneous cohort of patients with invasive bladder cancer treated with a neoadjuvant carboplatin-based regimen (M-CAVI). Ribas A, et al. **Tumori** 1996 Nov-Dec; 82(6):554–9

[Changes in tissue and blood polyamines during N-butyl-N-(4-hydroxybutyl) nitrosamine-induced bladder carcinogenesis in rats] Taniguchi M, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jul;88(7):658–63 (Eng. Abstr.) **(Jpn)**

[Advances regarding tumor markers in bladder cancer] Moreno Sierra J, et al. **Actas Urol Esp** 1997 Mar; 21(3):195–205 (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY

Prognostic significance of angiogenesis in transitional cell carcinoma of the human urinary bladder [letter; comment] Dickinson AJ. **Br J Urol** 1996 Nov;78(5):808. Comment on: Br J Urol 1996 Mar;77(3):352–7.

Preliminary ligation of vascular pedicles in male radical cystectomy. Fukui I, et al. **Br J Urol** 1997 Apr;79(4):641–2

Bladder cancer angiogenesis, its role in recurrence, stage progression and as a therapeutic target. Crew JP, et al. **Cancer Metastasis Rev** 1996 Jun;15(2):221–30 (84 ref.)

Two mechanisms of basic fibroblast growth factor-induced angiogenesis in bladder cancer. O'Brien T, et al. **Cancer Res** 1997 Jan 1;57(1):136–40

Thrombospondin-1 expression in bladder cancer: association with p53 alterations, tumor angiogenesis, and tumor progression. Grossfeld GD, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):219–27

FGF-2 and FGF-1 expressed in rat bladder carcinoma cells have similar angiogenic potential but different tumorigenic properties in vivo. Jouanneau J, et al. **Oncogene** 1997 Feb 13;14(6):671–6

CHEMICALLY INDUCED

Cyclophosphamide-induced bladder cancer [letter; comment] Gossmann J. **Ann Intern Med** 1997 Jan 1; 126(1):86. Comment on: Ann Intern Med 1996 Mar

1;124(5):477–84.
Mutagenic activation of urinary bladder carcinogens by CYP4B1 and the presence of CYP4B1 in bladder mucosa. Imaoka S, et al. **Biochem Pharmacol** 1997 Sep 15; 54(6):677–83
Clinicopathological features of bladder cancer associated with chronic exposure to arsenic. Chow NH, et al. **Br J Cancer** 1997;75(11):1708–10
Micronuclei in exfoliated bladder cells among individuals chronically exposed to arsenic in drinking water. Moore LE, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jan; 6(1):31–6
Lack of involvement of p53 gene mutations in N-methyl-N-nitrosourea-induced bladder tumor progression in N-butyl-N-(4-hydroxybutyl)nitrosamine-treated rats and no suppression by indomethacin. Ozaki M, et al. **Cancer Lett** 1997 May 19;115(2):249–55
Transformation in vitro of a nontumorigenic rat urothelial cell line by hydrogen peroxide. Okamoto M, et al. **Cancer Res** 1996 Oct 15;56(20):4649–53
Promoting effects of dimethylarsinic acid on N-butyl-N-(4-hydroxybutyl)nitrosamine-induced urinary bladder carcinogenesis in rats. Wanibuchi H, et al. **Carcinogenesis** 1996 Nov;17(11):2435–9
Polycyclic aromatic hydrocarbons and cancer in man. Mastrangelo G, et al. **Environ Health Perspect** 1996 Nov; 104(11):1166–70 (33 ref.)
Acetaminophen and renal and bladder cancer. Derby LE, et al. **Epidemiology** 1996 Jul;7(4):358–62
Bladder cancer mortality associated with arsenic in drinking water in Argentina [see comments] [published erratum appears in Epidemiology 1997 May;8(3):334] Hopenhayn-Rich C, et al. **Epidemiology** 1996 Mar; 7(2):117–24. Comment in: Epidemiology 1996 Mar;7(2):113–5. Comment in: Epidemiology 1996 Sep;7(5):557–8.
"Report of the Rodent Bladder Carcinogenesis Working Group" [letter] Anderson RL. **Food Chem Toxicol** 1997 Feb;35(2):295
Carcinogenic risks of inorganic arsenic in perspective. Byrd DM, et al. **Int Arch Occup Environ Health** 1996; 68(6):484–94
Monitoring of aromatic amine exposures in workers at a chemical plant with known bladder cancer excess [letter; comment] Freudenthal RI, et al. **J Natl Cancer Inst** 1997 May 21;89(10):734; discussion 735–6. Comment on: J Natl Cancer Inst 1996 Aug 7;88(15):1046–52.
Monitoring of aromatic amine exposures in workers at a chemical plant with a known bladder cancer excess [letter; comment] Stephens ER. **J Natl Cancer Inst** 1997 May 21; 89(10):734–5; discussion 735–6. Comment on: J Natl Cancer Inst 1996 Aug 7;88(15):1046–52.
Effects of diet on urinary bladder carcinogenesis and cancer prevention. Cohen SM, et al. **J Nutr** 1997 May;127(5 Suppl):826S–829S (21 ref.)
Exposure to aromatic amines and ras and c-erbB-2 overexpression in bladder cancer. Novara R, et al. **J Occup Environ Med** 1996 Apr;38(4):390–3
Cyclophosphamide associated bladder cancer--a highly aggressive disease: analysis of 12 cases. Fernandes ET, et al. **J Urol** 1996 Dec;156(6):1931–3
Quantitative trait loci associated with promoting effects of sodium L-ascorbate on two-stage bladder carcinogenesis in rats. Kamoto T, et al. **Jpn J Cancer Res** 1997 Jul; 88(7):633–8
Strain differences in sensitivity to the promoting effect of sodium L-ascorbate in a two-stage rat urinary bladder carcinogenesis model. Murai T, et al. **Jpn J Cancer Res** 1997 Mar;88(3):245–53
Effect of a tobacco-related nitrosamine on intercellular communication in human urothelial cells: a possible factor in smoking-related bladder carcinogenesis. Lyng FM, et al. **Oncol Res** 1996;8(9):371–8
Saccharin mechanistic data and risk assessment: urine composition, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996; 71(1-2):225–52 (172 ref.)
Metabolic activation and DNA adduct detection of PhIP in dogs, rats, and humans in relation to urinary bladder and colon carcinogenesis. Kadlubar F, et al. **Princess Takamatsu Symp** 1995;23:207–13
Occupational history and genetic N-acetyltransferase polymorphism in urothelial cancer patients of Leverkusen, Germany. Golka K, et al. **Scand J Work Environ Health** 1996 Oct;22(5):332–8
Absence of promoting potential of bracken fern (Pteridium aquilinum) in rat urinary bladder carcinogenesis induced by N-butyl-N-(4-hydroxybutyl)-nitrosamine and uracil. de Oliveira ML, et al. **Teratog Carcinog Mutagen** 1995; 15(4):191–9
3,2'-Dimethyl-4-aminobiphenyl-DNA adduct formation in tumor target and nontarget organs of rapid and slow acetylator Syrian hamsters cogenic at the NAT2 locus. Feng Y, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):315–21
Mesenchymal tumors of the mouse urinary bladder with vascular and smooth muscle differentiation. Butler WH, et al. **Toxicol Pathol** 1997 May-Jun;25(3):268–74
Dose-dependent amplification by L-ascorbic acid of NaHCO3 promotion of rat urinary bladder carcinogenesis. Iwata H, et al. **Toxicol Pathol** 1997 May-Jun;25(3):284–90
Promoting effect of monosodium aspartate, but not glycine, on renal pelvis and urinary bladder carcinogenesis in rat induced by N-butyl-N-(4-hydroxybutyl)nitrosamine. Kitamura M, et al. **Toxicol Pathol** 1996 Sep-Oct; 24(5):573–9
Localization of zinc and metallothionein in the rat bladder epithelium during carcinogenesis induced by N-butyl-N-(4-hydroxybutyl) nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(5):279–83
Interstitial stroma and carcinogenesis: ultrastructural observations in the rat bladder treated with N-butyl-N-(4-hydroxybutyl)nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(3):177–81
[Bladder neoplasms and cyclophosphamide. Apropos pf 3 cases amd review of the literature] Alexandre J, et al. **Bull Cancer** 1996 Nov;83(11):945–50 (37 ref.) (Eng. Abstr.) **(Fre)**
[Occupation and bladder cancer] Shaham J, et al. **Harefuah** 1996 Nov 15;131(10):382–6, 456 (Eng. Abstr.) **(Heb)**
[Possible etiologic role of occupational exposure to arsenic anhydride in a case of bladder carcinoma] La Paglia G, et al. **G Ital Med Lav Ergon** 1996 Jan-May;18(1-3):97–100 (Eng. Abstr.) **(Ita)**
[Changes in tissue and blood polyamines during N-butyl-N-(4-hydroxybutyl) nitrosamine-induced bladder carcinogenesis in rats] Taniguchi M, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jul;88(7):658–63 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

DNA content and proliferation activity in superficial transitional cell carcinoma of the bladder. Pantazopoulos D, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):781–6
Confocal microscopy of idarubicin localisation [letter; comment] Manfait M, et al. **Br J Cancer** 1997;76(1):136. Comment on: Br J Cancer 1996 Sep;74(6):906–9.
Significance of cyclin D1 overexpression in transitional cell carcinomas of the urinary bladder and its correlation with histopathologic features. Lee CC, et al. **Cancer** 1997 Feb 15;79(4):780–9
Immunohistochemical analysis of proliferating cell nuclear antigen, p53 protein and nm23 protein, and nuclear DNA content in transitional cell carcinoma of the bladder. Shiina H, et al. **Cancer** 1996 Oct 15;78(8):1762–74
A physiological role of interferon (IFN)-beta derived from tumor: tumor growth of a mouse bladder carcinoma line MBT-2 is partially suppressed by autocrine IFN-beta. Kawabata K, et al. **Cancer Lett** 1997 Feb 26; 113(1-2):159–64
Proteome profiling of bladder squamous cell carcinomas: identification of markers that define their degree of differentiation. Ostergaard M, et al. **Cancer Res** 1997 Sep 15;57(18):4111–7
Expression of the apoptosis suppressing bcl-2 protein in transitional cell bladder tumours. Lipponen PK, et al. **Histopathology** 1996 Feb;28(2):135–40
Thrombospondin-1 expression in bladder cancer: association with p53 alterations, tumor angiogenesis, and tumor progression. Grossfeld GD, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):219–27
Prognostic value of Ki-67 for recurrence and progression of superficial bladder cancer. Asakura T, et al. **J Urol** 1997 Aug;158(2):385–8
Determination of interferon-alpha receptors in urothelial cancer and in normal urothelium [see comments] Giannopoulos A, et al. **J Urol** 1997 Jan;157(1):79–82. Comment in: J Urol 1997 Jan;157(1):83–4.
Urinary and tissue levels of scatter factor in transitional cell carcinoma of bladder [see comments] Rosen EM, et al. **J Urol** 1997 Jan;157(1):72–8. Comment in: J Urol 1997 Jan;157(1):83–4.
Expression patterns of erbB receptor family in normal urothelium and transitional cell carcinoma. An immunohistochemical study. Chow NH, et al. **Virchows Arch** 1997 Jun;430(6):461–6
[Advances regarding tumor markers in bladder cancer] Moreno Sierra J, et al. **Actas Urol Esp** 1997 Mar; 21(3):195–205 (Eng. Abstr.) **(Spa)**
[New quantitative method for determining p53 protein in bladder carcinomas] Moreno Sierra J, et al. **Arch Esp Urol** 1997 May;50(4):347–53 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

Grading in superficial papillary bladder carcinoma, with an emphasis on nuclear orientation. Dalla Palma P, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):305–8
Reporting urinary bladder specimens containing bladder neoplasms [letter; comment] Koss LG. **Hum Pathol** 1997 Mar;28(3):389. Comment on: Hum Pathol 1996 Aug;27(8):751–3.

COMPLICATIONS

Bladder cancer within an inguinoscrotal bladder hernia [letter] Darío Casas J, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1194–5
Combination chemotherapy for advanced bilharzial bladder carcinoma. Khaled HM, et al. **Ann Oncol** 1996 Sep; 7(7):751–4
Inclusion body myositis and transitional cell carcinoma of the bladder: significant resolution of symptoms after tumor excision. Jensen ML, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):327–9 (17 ref.)
Postmenopausal cystitis. Bladder cancer may be a cause, but interstitial cystitis is an unusual differential diagnosis [letter; comment] Turner W, et al. **BMJ** 1996 Oct 26; 313(7064):1079. Comment on: BMJ 1996 Jul 20;313(7050):129.
Linear IgA disease in a patient with bladder carcinoma. Ródenas JM, et al. **Br J Dermatol** 1997 Feb;136(2):257–9 (26 ref.)
An unusual case of haemorrhagic cystitis [letter] Lucas GN, et al. **Ceylon Med J** 1996 Dec;41(4):169
Nephrogenic adenoma in children. Case report and review of literature. Schumacher K, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):115–7 (24 ref.)
Hematuria: a presentation of carcinoma of the stomach. Nijhawan S, et al. **Indian J Gastroenterol** 1996 Jul;15(3):102
Massive haemorrhage of inoperable bladder carcinomas: treatment by intravesical formalin solution. Giannakopoulos X, et al. **Int Urol Nephrol** 1997;29(1):33–8
A case of cutaneous malignant fibrous histiocytoma. Ichikawa E, et al. **J Dermatol** 1996 Aug;23(8):535–8
Asymptomatic multiple myeloma with concomitant neoplasms of two different origins. Take H, et al. **J Med** 1996;27(3-4):228–32
Symptomatic hypocalcemia after intravenous pamidronate. McIntyre E, et al. **J Palliat Care** 1996 Spring;12(1):46–7
Incidence of recurrent bladder cancer in patients requiring admission for abdominal pain long after cystectomy. Phillips JL, et al. **J Surg Oncol** 1996 Nov;63(3):191–4
Panurothelial condyloma acuminatum with development of squamous cell carcinoma of the bladder and renal pelvis. Brüske T, et al. **J Urol** 1997 Feb;157(2):620–1
Transitional cell carcinoma of the bladder in an HIV-infected patient. Al Soub H. **Postgrad Med J** 1996 May; 72(847):302–4
Transabdominal ultrasonography of the bladder as a staging examination for cervical carcinoma. de Jonge ET, et al. **S Afr Med J** 1995 Oct;85(10 Suppl):1076–80
Bladder hemangioma as a cause of massive hematuria in a child. A case report and literature review. Mor Y, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):305–7
Bladder tumor presenting as an interlabial mass. Biyani CS, et al. **Urol Int** 1997;58(1):64–5
[Analysis of 895 consultations for hematuria in the emergency department in an urology unit] Errando Smet C, et al. **J Urol (Paris)** 1996;102(4):168–71 (Eng. Abstr.) **(Fre)**
[Percutaneous nephrostomy in malignant ureteral obstruction (see comments)] Demetriou D, et al. **Dtsch Med Wochenschr** 1996 Dec 6;121(49):1526–30 (Eng. Abstr.). Comment in: Dtsch Med Wochenschr 1997 Mar 21;122(12):385. **(Ger)**
[Vesicosigmoid fistula associated with bladder carcinoma: report of a case] Di Girolamo M, et al. **Radiol Med (Torino)** 1996 Dec;92(6):812–5 **(Ita)**
[Bladder carcinoma presenting with hypercalcemia: a case report] Maeda Y, et al. **Hinyokika Kiyo** 1997 Feb; 43(2):137–40 (Eng. Abstr.) **(Jpn)**
[Acute abdomen of urologic origin] Estrada Saiz RV, et al. **Actas Urol Esp** 1996 Jul-Aug;20(7):662–3 (Eng. Abstr.) **(Spa)**
[Hematuria and pleural effusion: are they manifestations of the same entity? (letter)] Ortiz de Saracho y Bobo J, et al. **An Med Interna** 1997 Mar;14(3):154–5 **(Spa)**
[Polypoid cystitis, isolated lesion with a unique presentation] Raventos Busquets CX, et al. **Arch Esp Urol** 1996 Nov; 49(9):988–91 (21 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

AgNOR staining of cell imprint preparations of human bladder cancer. Jinza S, et al. **Acta Cytol** 1996 Nov-Dec; 40(6):1159–64
Contemporary non-imaging methods in diagnosis of bladder cancer: a review. De Graeve N, et al. **Acta Urol Belg** 1997 Mar;65(1):55–8 (22 ref.)
MR imaging evaluation of benign mesenchymal tumors of the urinary bladder. Chen M, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):399–403
Advertisement for the Bard BTA test for bladder cancer [letter] Marshall KG. **Am Fam Physician** 1997 Mar; 55(4):1078, 1080, 1085–6 passim
Leiomyoma of the female urethra and bladder: report of twenty-three patients and review of the literature. Cornella JL, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1278–85 (24 ref.)
Improved prognosis assessment for patients with bladder carcinoma. Otto T, et al. **Am J Pathol** 1997 Jun; 150(6):1919–23
Ambulatory blood pressure monitoring in diagnosing a pheochromocytoma of the urinary bladder. A case report. Fujishima S, et al. **Angiology** 1997 Jul;48(7):655–8
Cytokeratin 20 as an objective marker of urothelial dysplasia. Harnden P, et al. **Br J Urol** 1996 Dec;78(6):870–5
The performance characteristics of the bladder tumour antigen test. Kirollos MM, et al. **Br J Urol** 1997 Jul; 80(1):30–4
Transitional cell carcinoma of the bladder producing granulocyte colony-stimulating factor: a case report of molecular diagnosis. Nemoto R, et al. **Br J Urol** 1996 Oct; 78(4):653–4
Characterization of the DD23 tumor-associated antigen for

bladder cancer detection and recurrence monitoring. Marker Network for Bladder Cancer. Bonner RB, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):971–8

Can hematuria be a predictor as well as a symptom or sign of bladder cancer? Friedman GD, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):993–6

MR imaging of carcinoma within urinary bladder diverticulum. Durfee SM, et al. **Clin Imaging** 1997 Jul–Aug; 21(4):290–2

Bladder cancer. Ozen H. **Curr Opin Oncol** 1997 May; 9(3):295–300 (19 ref.)

Neural net–based identification of cells expressing the p300 tumor–related antigen using fluorescence image analysis. Hurst RE, et al. **Cytometry** 1997 Jan 1;27(1):36–42

Cytokeratin–19 fragment (CYFRA 21–1) in bladder cancer. Morita T, et al. **Eur Urol** 1997;32(2):237–44

Primary peripheral primitive neuroectodermal tumour of urinary bladder. Banerjee SS, et al. **Histopathology** 1997 May;30(5):486–90

Incidental adrenal mass hampers the diagnosis of an extra–adrenal phaeochromocytoma. Jeck T, et al. **Horm Res** 1996;46(6):282–3

Diagnosis of bladder cancer by analysis of the allelic loss of the p53 gene in urine samples using blunt–end single–strand conformation polymorphism. Sugano K, et al. **Int J Cancer** 1997 Aug 22;74(4):403–6

A case of renal cell carcinoma associated with synchronous contralateral renal pelvic cancer and bladder tumor. Ando M, et al. **Int J Urol** 1996 Jul;3(4):310–2 (8 ref.)

Primary malignant lymphoma of the bladder. A case report and review of the literature. Arda K, et al. **Int Urol Nephrol** 1997;29(3):319–22 (10 ref.)

The efficacy of urinary cytology in the detection of recurrent bladder tumours. Baltaci S, et al. **Int Urol Nephrol** 1996; 28(5):649–53

Tumour in a giant bladder diverticulum: a case report and review of literature. Shah B, et al. **Int Urol Nephrol** 1997; 29(2):173–9 (49 ref.)

Chemical instability of 5–aminolevulinic acid used in the fluorescence diagnosis of bladder tumours. Novo M, et al. **J Photochem Photobiol B** 1996 Jul;34(2–3):143–8

Laser induced autofluorescence diagnosis of bladder tumors: dependence on the excitation wavelength. Anidjar M, et al. **J Urol** 1996 Nov;156(5):1590–6

Squamous cell carcinoma of bladder [editorial; comment] Bahnson RR. **J Urol** 1997 Jun;157(6):2115. Comment on: J Urol 1997 Jun;157(6):2109–11. Comment on: J Urol 1997 Jun;157(6):2112–4.

Coincidence of bladder and prostate cancer. Chun TY. **J Urol** 1997 Jan;157(1):65–7

Re: Initial evaluation of the bladder tumor antigen test in superficial bladder cancer [letter; comment] Kirollos MM. **J Urol** 1997 Feb;157(2):627. Comment on: J Urol 1996 Feb;155(2):475–6.

Laser induced autofluorescence diagnosis of bladder cancer [see comments] Koenig F, et al. **J Urol** 1996 Nov; 156(5):1597–601. Comment in: J Urol 1996 Nov;156(5):1609–10.

A multicenter trial evaluation of the fibrin/fibrinogen degradation products test for detection and monitoring of bladder cancer. Schmetter BS, et al. **J Urol** 1997 Sep;158(3 Pt 1):801–5

Polyomavirus mimicking high grade transitional cell carcinoma. Seftel AD, et al. **J Urol** 1996 Nov;156(5):1764

Advances in diagnostic and prognostic markers of bladder cancer [editorial; comment] Sufrin G. **J Urol** 1997 Jan; 157(1):83–4. Comment on: J Urol 1997 Jan;157(1):68–70; discussion 70–1. Comment on: J Urol 1997 Jan;157(1):72–8. Comment on: J Urol 1997 Jan;157(1):79–82.

Clinical evaluation of a method for detecting superficial surgical transitional cell carcinoma of the bladder by light–induced fluorescence of protoporphyrin IX following the topical application of 5–aminolevulinic acid: preliminary results. Jichlinski P, et al. **Lasers Surg Med** 1997;20(4):402–8

Errors and pitfalls in cytology of the lower urinary tract. Koss LG. **Monogr Pathol** 1997;(39):60–74 (48 ref.)

Two potential clinical applications of the alkaline single–cell gel electrophoresis assay: (1). Human bladder washings and transitional cell carcinoma of the bladder; and (2). Human sperm and male infertility. McKelvey–Martin VJ, et al. **Mutat Res** 1997 Apr 29;375(2):93–104

Pseudosarcoma of the urinary bladder. Mincione GP, et al. **Pathologica** 1995 Oct;87(5):554–8

Primary vesical malignant lymphoma of histiocytes detected by urine cytology. Mincione GP, et al. **Pathologica** 1995 Oct;87(5):559–62

Virtual cystoscopy: early clinical experience. Fenlon HM, et al. **Radiology** 1997 Oct;205(1):272–5

Nephrotic syndrome associated with transitional cell carcinoma of urinary bladder. Reshi AR, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):295–6

Carcinoma of the bladder in patients under 25 years of age. Yusim I, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):461–3

Bladder cancer screening. Kryger JV, et al. **Semin Oncol** 1996 Oct;23(5):585–97 (77 ref.)

Diagnosis and treatment of superficial bladder cancer: an update. Crawford ED. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):1–9 (70 ref.)

What is new in bladder cancer imaging. Barentsz JO, et al. **Urol Clin North Am** 1997 Aug;24(3):583–602 (31 ref.)

Simultaneous occurrence of urothelial bladder carcinoma and primary retroperitoneal leiomyosarcoma. Herrmann U, et al. **Urol Int** 1997;58(4):252–3

Clinical assessment of fluorescence cytoscopy during transurethral bladder resection in superficial bladder cancer. Jichlinski P, et al. **Urol Res** 1997;25 Suppl 1:S3–6

Expression of CD44V2 in transitional cell carcinoma of the urinary bladder and in urine. Müller M, et al. **Urol Res** 1997;25(3):187–92

Endoscopic observation for detection and monitoring of N–butyl–N–(4–hydroxybutyl)nitrosamine–-induced bladder tumor in rats. Ohyama C, et al. **Urol Res** 1997; 25(3):183–6

Genitourinary neurofibromatosis mimicking posterior urethral valves. Brown JA, et al. **Urology** 1997 Jun; 49(6):960–2

Primary lymphoma of the bladder: a unique cystoscopic appearance. Downs TM, et al. **Urology** 1997 Feb; 49(2):276–8

Results of Bard BTA test in monitoring patients with a history of transitional cell cancer of the bladder. Ianari A, et al. **Urology** 1997 May;49(5):786–9

Comparison of the Bard BTA test with voided urine and bladder wash cytology in the diagnosis and management of cancer of the bladder. Leyh H, et al. **Urology** 1997 Jul; 50(1):49–53

The use of the BTA Test in the detection of persistent or recurrent transitional–cell cancer of the bladder. Sarosdy MF. **World J Urol** 1997;15(2):103–6 (12 ref.)

The role of nuclear matrix protein 22 in the detection of persistent or recurrent transitional–cell cancer of the bladder. Shelfo SW, et al. **World J Urol** 1997;15(2):107–11 (25 ref.)

[The clinical value of fluorescence cystoscopy in the detection of superficial transitional epithelial cell carcinoma of the bladder] Jichlinski P, et al. **Ann Urol (Paris)** 1997; 31(1):43–8 (Eng. Abstr.) **(Fre)**

[Can the combination of bladder ultrasonography and urinary cytodiagnosis replace cystoscopy in the diagnosis and follow–up of tumors of the bladder?] Cariou G, et al. **Prog Urol** 1997 Feb;7(1):51–5 (Eng. Abstr.) **(Fre)**

[Intradiverticular bladder tumors. Five case reports] Rozet F, et al. **Prog Urol** 1997 Apr;7(2):225–8 (Eng. Abstr.) **(Fre)**

[Bladder and rectal infiltration by uterine carcinomas: the accuracy of CT and MRI compared to endoscopic procedures] Krestin GP, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):125–31 (Eng. Abstr.) **(Ger)**

[Bladder tumors] Egli U. **Ther Umsch** 1996 Sep;53(9):697–701 (Eng. Abstr.) **(Ger)**

[Remnants of the Mullerian duct. Case report based on a complex urogenital abnormality] Krautschick A, et al. **Urologe A** 1997 Jan;36(1):77–80 (Eng. Abstr.) **(Ger)**

[Determining the depth of infiltration in urinary bladder carcinoma with contrast medium enhanced dynamic magnetic resonance tomography. With reference to postoperative findings and inflammation] Venz S, et al. **Urologe A** 1996 Jul;35(4):297–304 (Eng. Abstr.) **(Ger)**

[Evaluation of urinary NMP22 (nuclear matrix protein 22) as a diagnostic marker for urothelial cancer–-NMP22 as a urinary marker for surveillance of bladder cancer. NMP22 Study Group] Akaza H, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):829–36 (Eng. Abstr.) **(Jpn)**

[Evaluation of urinary NMP22 (nuclear matrix protein 22) as a diagnostic marker for urothelial cancer–-screening for urothelial cancer in patients with microscopic hematuria. NMP Study Group] Akaza H, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):837–42 (Eng. Abstr.) **(Jpn)**

[Cavernous hemangioma of urinary bladder: a case report and review of the literature] Minamide M, et al. **Hinyokika Kiyo** 1996 Sep;42(9):683–5 (Eng. Abstr.) **(Jpn)**

[Early urachal carcinoma diagnosed by magnetic resonance imaging: a case report] Suzuki K, et al. **Hinyokika Kiyo** 1997 Jan;43(1):57–9 (Eng. Abstr.) **(Jpn)**

[Determination of urinary CA19–9 levels in urothelial cancer—assessment of its role in diagnosis (published erratum appears in Nippon Hinyokika Gakkai Zasshi 1997 Apr;88(4):511)] Noto K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):406–13 (Eng. Abstr.) **(Jpn)**

[Image cytometric DNA analysis in bladder tumors] Yamamoto S, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1026–31 (Eng. Abstr.) **(Jpn)**

[The prognostic factors in bladder cancer patients] al–Shukri SKh, et al. **Urol Nefrol (Mosk)** 1996 Nov–Dec;(6):49–53 (143 ref.) **(Rus)**

[Use of low–field MR tomography in the comprehensive diagnosis of diseases of the small pelvis] Shatov AV. **Vestn Rentgenol Radiol** 1996 May–Jun;(3):57–60 (Eng. Abstr.) **(Rus)**

[Diagnosis and treatment of locally advanced cancer of the urinary bladder] Nechiporenko NA, et al. **Vopr Onkol** 1996; 42(4):66–8 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Transarterial infusion of cisplatin and doxorubicin in bladder cancer. Mokarim A, et al. **Acta Oncol** 1997;36(2):175–81

Allergic contact dermatitis from mitomycin C. Gomez Torrijos E, et al. **Allergy** 1997 Jun;52(6):687

Continuous–infusion 5–fluorouracil and cisplatin for advanced/recurrent transitional cell cancer of the bladder: a Southwest Oncology Group trial. Kish JA, et al. **Am J Clin Oncol** 1997 Aug;20(4):327–30

A phase II trial of cisplatin and interferon alpha 2b in patients with advanced bladder cancer. Parnis FX, et al. **Am J Clin Oncol** 1997 Jun;20(3):319–21

Continuous infusion, intravesical doxorubicin for the treatment of regionally advanced bladder cancer: a phase I–II trial. See WA, et al. **Am J Clin Oncol** 1997 Aug; 20(4):331–7

Combination chemotherapy for advanced bilharzial bladder carcinoma. Khaled HM, et al. **Ann Oncol** 1996 Sep; 7(7):751–4

Lobaplatin in advanced urothelial tract tumors. The Genitourinary Group of the European Organization for Research and Treatment of Cancer (EORTC). Sternberg CN, et al. **Ann Oncol** 1997 Jul;8(7):695–6

Efficacy of the platinum analog [Pt(cis–dach)(DPPE)–2NO3] on histocultured human patient bladder tumors and cancer cell lines. Chang SG, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3423–8

Effects of ibuprofen on the in vitro invasiveness of a human transitional cell carcinoma. Cook GP, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):365–8

Concomitant decrease of resistance and modifications of the cytoskeleton after all–trans retinoic acid and phorbol ester treatments in a navelbine–resistant bladder carcinoma cell line. Debal V, et al. **Anticancer Res** 1997 Mar–Apr; 17(2A):1147–54

Intensified M–VEC chemotherapy with G–CSF support as outpatient treatment for advanced bladder cancer. Pronzato P, et al. **Anticancer Res** 1997 May–Jun;17(3C):2325–7

Effect of photodynamic therapy in combination with mitomycin C on a mitomycin–resistant bladder cancer cell line. Datta SN, et al. **Br J Cancer** 1997;76(3):312–7

Role of reactive oxygen species in cis–dichlorodiammineplatinum–induced cytotoxicity on bladder cancer cells. Miyajima A, et al. **Br J Cancer** 1997; 76(2):206–10

Phase II study of paclitaxel in pretreated patients with locally advanced/metastatic cancer of the bladder and ureter. Papamichael D, et al. **Br J Cancer** 1997;75(4):606–7

Characterization of a BMS–181174–resistant human bladder cancer cell line. Xia H, et al. **Br J Cancer** 1997;76(4):461–6

Balloon–occluded arterial infusion as a useful neoadjuvant chemotherapy for bladder cancer. Arima K, et al. **Br J Urol** 1997 Sep;80(3):417–20

Primary metastatic bladder carcinoma during pregnancy. Danisman A, et al. **Br J Urol** 1997 Mar;79(3):489

Photodynamic therapy of bladder cancer cell lines. Datta SN, et al. **Br J Urol** 1997 Sep;80(3):421–6

Urinary bladder cancer in a girl with a slow–acetylator genotype and treated with sulphasalazine. Espin Jaime MT, et al. **Br J Urol** 1997 Jul;80(1):151–2

Combined chemotherapy and radiation with selective organ preservation for muscle–invasive bladder carcinoma. A single–institution phase II study. Fellin G, et al. **Br J Urol** 1997 Jul;80(1):44–9

Intravesical instillation of epirubicin [letter; comment] [published erratum appears in Br J Urol 1997 Jan;79(1):150] Willis RG. **Br J Urol** 1996 Oct;78(4):662. Comment on: Br J Urol 1996 Mar;77(3):358–62.

Radical chemoradiotherapy for elderly patients with bladder carcinoma invading muscle. Arias F, et al. **Cancer** 1997 Jul 1;80(1):115–20

Vinblastine, ifosfamide, and gallium nitrate–-an active new regimen in patients with advanced carcinoma of the urothelium. A phase II trial of the Eastern Cooperative Oncology Group (E5892). Dreicer R, et al. **Cancer** 1997 Jan 1;79(1):110–4

Doxorubicin sensitizes human bladder carcinoma cells to Fas–mediated cytotoxicity. Mizutani Y, et al. **Cancer** 1997 Mar 15;79(6):1180–9

Paclitaxel–based second–line therapy for patients with advanced chemotherapy–resistant bladder carcinoma (M1): a clinical Phase II study. Otto T, et al. **Cancer** 1997 Aug 1;80(3):465–70

A carboplatin–based regimen for the treatment of patients with advanced transitional cell carcinoma of the urothelium. Small EJ, et al. **Cancer** 1996 Oct 15; 78(8):1775–80

Electropermeabilization in bladder cancer chemotherapy. Kubota Y, et al. **Cancer Chemother Pharmacol** 1996; 39(1–2):67–70

Time for a change [comment] Hryniuk W. **Cancer J Sci Am** 1997 Jul–Aug;3(4):209–10. Comment on: Cancer J Sci Am 1997 Jul–Aug;3(4):213–23.

Predictive factors for outcome in invasive bladder cancer treated with alternating chemoradiotherapy [see comments] Sanguineti G, et al. **Cancer J Sci Am** 1997 Jul–Aug; 3(4):213–23. Comment in: Cancer J Sci Am 1997 Jul–Aug;3(4):209–10.

Current recommendations for the management of bladder cancer. Drug therapy. Witjes JA. **Drugs** 1997 Mar; 53(3):404–14 (67 ref.)

Impact of recombinant human granulocyte colony stimulating factor on dose intensity and toxicity of three cycles of methotrexate, vinblastine, doxorubicin and cisplatin in patients with previously untreated urothelial bladder carcinoma. Viens P, et al. **Eur Cytokine Netw** 1996 Sep;7(3):395–9

Neoadjuvant chemotherapy (MVAC) in locally invasive bladder cancer. Sagaster P, et al. **Eur J Cancer** 1996 Jul; 32A(8):1320–4

Metastatic bladder cancer: advances in treatment. Stadler WM, et al. **Eur J Cancer** 1997 Jan;33 Suppl 1:S23–6 (55 ref.)

Caecocystoplasty and bilateral oophorectomy followed by chemotherapy for diffuse, non-Hodgkins lymphoma of the ovary involving the bladder. Case report. Papadopoulos AJ, et al. **Eur J Gynaecol Oncol** 1997;18(2):101–3

Chemoresection in Ta–T1 bladder cancer. Members of the EORTC Genito-Urinary Group. Bono AV, et al. **Eur Urol** 1996;29(4):385–90

Promoting effects and mechanisms of action of androgen in bladder carcinogenesis in male rats. Imada S, et al. **Eur Urol** 1997;31(3):360–4

BCG update: intravesical therapy. Martínez-Piñeiro JA, et al. **Eur Urol** 1997;31 Suppl 1:31–41 (69 ref.)

A review of clinical studies of bropirimine immunotherapy of carcinoma in situ of the bladder and upper urinary tract. Sarosdy MF. **Eur Urol** 1997;31 Suppl 1:20–6 (36 ref.)

Long-term follow-up of cytostatic intravesical instillation in patients with superficial bladder carcinoma. Is short-term, intensive instillation better than maintenance therapy? Schwaibold H, et al. **Eur Urol** 1997;31(2):153–9

Cytophotometry in the monitoring of bladder cancer under intravesical chemotherapy. Simak R, et al. **Eur Urol** 1996; 29(4):391–8

Chemotherapy with methotrexate, vinblastine, epirubicin and carboplatin (Carbo–MVE) in transitional cell urothelial cancer. A Hellenic Co–Operative Oncology Group study. Skarlos DV, et al. **Eur Urol** 1997;31(4):420–7

Toxicity and results of MVAC (methotrexate, vinblastine, adriamycin and cisplatin) chemotherapy in advanced urothelial carcinoma. Witjes JA, et al. **Eur Urol** 1997; 31(4):414–9

Treatment of carcinoma in situ of the urinary bladder with bropirimine. Witjes JA. **Eur Urol** 1997;31 Suppl 1:27–30 (16 ref.)

Factors related to the outcome of M–VAC in 101 patients with advanced urothelial cancer. Igawa M, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):113–7

Cisplatin-based neoadjuvant chemotherapy for invasive bladder cancer. Kadena H, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):129–32

Anti-neoplastic activity of paclitaxel on experimental superficial bladder cancer: in vivo and in vitro studies. Nativ O, et al. **Int J Cancer** 1997 Jan 27;70(3):297–301

Significance of the preoperative intravesical instillation of doxorubicin and the oral administration of 5-fluorouracil in preventing recurrence after a transurethral resection of superficial bladder cancer. Kyushu University Urological Oncology Group. Naito S, et al. **Int J Urol** 1997 Jul; 4(4):352–7

The protective effect of methylprednisolone against cisplatin-induced nephrotoxicity in patients with urothelial tumors. Uozumi J, et al. **Int J Urol** 1996 Sep;3(5):343–7

Phase II trial of oral piritrexim in advanced, previously treated transitional cell cancer of bladder. Khorsand M, et al. **Invest New Drugs** 1997;15(2):157–63

Combined chemotherapy and irradiation for transitional cell cancer of the bladder: a review. Beuzeboc P, et al. **J Infus Chemother** 1995 Fall;5(4):218–20 (22 ref.)

Electromotive diffusion (EMD) and photodynamic therapy with delta-aminolaevulinic acid (delta-ALA) for superficial bladder cancer. Stenzl A, et al. **J Photochem Photobiol B** 1996 Nov;36(2):233–6

Intravesical epirubicin versus doxorubicin for superficial bladder tumors (stages pTa and pT1): a randomized prospective study. Ali-el-Dein B, et al. **J Urol** 1997 Jul; 158(1):68–73; discussion 73–4

Intravesical therapy with vinorelbine tartrate: antitumor activity in orthotopic murine cell carcinoma of the bladder. Bonfil RD, et al. **J Urol** 1997 Sep;158(3 Pt 1):912–5

Concurrent cisplatin and radiotherapy for patients with muscle invasive bladder cancer who are not candidates for radical cystectomy. Chauvet B, et al. **J Urol** 1996 Oct; 156(4):1258–62

Paclitaxel in advanced urothelial carcinoma: its role in patients with renal insufficiency and as salvage therapy. Dreicer R, et al. **J Urol** 1996 Nov;156(5):1606–8. 1996 Nov;156(6):1609–10.

Adjuvant chemotherapy for superficial transitional cell bladder carcinoma: long-term results of a European Organization for Research and Treatment of Cancer randomized trial comparing doxorubicin, ethoglucid and transurethral resection alone. Kurth K, et al. **J Urol** 1997 Aug;158(2):378–84

Cisplatin, ifosfamide, methotrexate and vinblastine combination chemotherapy for metastatic urothelial cancer. Kyriakakis Z, et al. **J Urol** 1997 Aug;158(2):408–11

Wavelength dependent photodynamic effects on chemically induced rat bladder tumors following intravesical instillation of 5-aminolevulinic acid. Stocker S, et al. **J Urol** 1997 Jan;157(1):357–61

Angiogenesis inhibitor TNP-470 suppresses tumorigenesis in rat urinary bladder. Tanaka Y, et al. **J Urol** 1997 Feb; 157(2):683–8

p53 and treatment of bladder cancer [letter; comment] Cote RJ, et al. **Nature** 1997 Jan 9;385(6612):123–5. Comment on: Nature 1996 Jun 20;381(6584):713–6.

A study of antitumor effects of thymosin on rat and mouse urinary bladder carcinoma induced by N-butyl-N-(4-hydroxybutyl)-nitrosamine. Wada S, et al. **Oncol Res** 1996;8(3):139–44

Different pH dependency of mitomycin C activity in monolayer and three-dimensional cultures. Yen WC, et al. **Pharm Res** 1996 Dec;13(12):1887–91

Effects of intravesical instillation of 5-fluorouracil and interferon in patients with recurrent superficial urinary bladder carcinoma. A clinical and pharmacodynamic study. Hugosson J, et al. **Scand J Urol Nephrol** 1997 Aug; 31(4):343–7

Chemotherapy for advanced bladder cancer. Roth BJ. **Semin Oncol** 1996 Oct;23(5):633–44 (138 ref.)

Neoadjuvant and adjuvant chemotherapy in locally advanced bladder cancer. Sternberg CN. **Semin Oncol** 1996 Oct; 23(5):621–32 (93 ref.)

Simultaneous paclitaxel and radiotherapy: initial clinical experience in lung cancer and other malignancies. Vogt HG, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–101–S12–105 (15 ref.)

Treatment of superficial bladder cancer with intravesical chemotherapy. Badalament RA, et al. **Semin Surg Oncol** 1997 Sep–Oct;13(5):335–41 (32 ref.)

Systemic chemotherapy of transitional cell carcinoma of the urothelium. Brinkley WM, et al. **Semin Surg Oncol** 1997 Sep–Oct;13(5):365–75 (112 ref.)

Nursing implications in the management of superficial bladder cancer. Games J. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):36–40 (27 ref.)

Intravesical chemotherapy for superficial bladder tumors category Ta/T1: who should be treated and how? Kurth KH. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):30–5 (7 ref.)

Update on the Dutch Cooperative Trial: mitomycin versus bacillus Calmette–Guérin–Tice versus bacillus Calmette–Guérin RIVM in the treatment of patients with pTA–pT1 papillary carcinoma and carcinoma in situ of the urinary bladder. Dutch South East Cooperative Urological Group. Witjes WP, et al. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):10–6

Practical aspects of photodynamic therapy for superficial bladder carcinoma. Manyak MJ. **Tech Urol** 1995 Summer; 1(2):84–93 (25 ref.)

A new regimen of cisplatin, epirubicin and methotrexate (PEM–3) as primary chemotherapy for locally advanced bladder cancer. Cacciari N, et al. **Tumori** 1996 Jul–Aug; 82(4):364–8

First-line chemotherapy with cisplatin, methotrexate and vinblastine in metastatic bladder cancer. Pajk B, et al. **Tumori** 1996 Sep–Oct;82(5):453–5

Early results of the value of p53 in predicting survival in a homogeneous cohort of patients with invasive bladder cancer treated with a neoadjuvant carboplatin-based regimen (M–CAVI). Ribas A, et al. **Tumori** 1996 Nov–Dec; 82(6):554–9

Neoadjuvant CMV chemotherapy plus radical cystectomy in locally advanced bladder cancer: the impact of pathologic response on long-term results. Scattoni V, et al. **Tumori** 1996 Sep–Oct;82(5):463–9

Aminolevulinic acid for photodynamic therapy of bladder carcinoma cells. Bachor R, et al. **Urol Res** 1996;24(5):285–9

Initial report on intravesical administration of N-trifluoroacetyladriamycin-14-valerate (AD 32) to patients with refractory superficial transitional cell carcinoma of the urinary bladder. Greenberg RE, et al. **Urology** 1997 Mar;49(3):471–5

Does current chemotherapy improve survival of patients with invasive bladder cancer? Herr HW. **Urology** 1997 Mar; 49(3):309–12

Radical cystectomy with or without adjuvant polychemotherapy for non-organ-confined transitional cell carcinoma of the urinary bladder: prognostic impact of lymph node involvement. Stöckle M, et al. **Urology** 1996 Dec;48(6):868–75

Phase I trial of photodynamic therapy in the treatment of recurrent superficial transitional cell carcinoma of the bladder. Walther MM, et al. **Urology** 1997 Aug; 50(2):199–206

Current concepts in the role of intravesical instillations in the therapy and prophylaxis of superficial transitional-cell cancer of the bladder. The Finnbladder Research Group. Alfthan O, et al. **World J Urol** 1997;15(2):89–95 (64 ref.)

The role of paclitaxel in chemosensitive urological malignancies: current strategies in bladder cancer and testicular germ-cell tumors. Bokemeyer C, et al. **World J Urol** 1996;14(6):354–9 (37 ref.)

Intravesical suramin: a novel agent for the treatment of superficial transitional-cell carcinoma of the bladder. Walther MM, et al. **World J Urol** 1996;14 Suppl 1:S8–11 (31 ref.)

[Concomitant radiochemotherapy in invasive bladder tumors] Mottet N, et al. **Bull Cancer** 1997 Apr;84(4):405–11 (28 ref.) (Eng. Abstr.) **(Fre)**

[Cell lysis syndrome after chemotherapy for cancer of the bladder (letter)] Suc E, et al. **Presse Med** 1996 Dec 21; 25(40):2044 **(Fre)**

[Preoperative radiochemotherapy in bladder carcinomas] Dunst J. **Strahlenther Onkol** 1997 Apr;173(4):242–3 **(Ger)**

[Therapy and prevention of recurrence in bladder cancer. Convincing results] **Urologe A** 1995 Sep;34(5 Suppl):1–4 **(Ger)**

[BCG therapy of superficial bladder cancer. Current status of clinical aspects and research] **Urologe A** 1993 Mar;32(2 [bcg-therap]):1–12 **(Ger)**

[Therapy with mitomycin C, folic acid and 5-fluorouracil in treatment of metastatic, refractory urinary bladder carcinoma--phase II study] Otto T, et al. **Urologe A** 1997 May;36(3):243–7 (Eng. Abstr.) **(Ger)**

[Bropirimine (U–54461S) late phase II clinical study for carcinoma in situ of the bladder. Japan Bropirimine Study Group] Akaza H, et al. **Gan To Kagaku Ryoho** 1997 Jan; 24(1):77–85 (Eng. Abstr.) **(Jpn)**

[Characteristic and effective usage of adriamycin] Horiuchi K, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1916–9 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The role of etoposide therapy in urogenital cancer] Kawai K, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1929–35 (36 ref.) (Eng. Abstr.) **(Jpn)**

[Glutathione chemoprotection therapy against CDDP-induced neurotoxicity in patients with invasive bladder cancer] Sumiyoshi Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1506–8 (Eng. Abstr.) **(Jpn)**

[The effectiveness of neoadjuvant chemotherapy for invasive bladder cancer] Nishisaka N, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Nov;87(11):1250–7 (Eng. Abstr.) **(Jpn)**

[The efficacy of neoadjuvant chemotherapy and morphological classification of invasive bladder cancer according to chemoresponse] Tsutsumi M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep;87(9):1105–13 (Eng. Abstr.) **(Jpn)**

[Systemic chemotherapy with cisplatin, methotrexate, and vinblastine, and bladder preservation in T2/T3a bladder cancer] Angulo Cuesta J, et al. **Actas Urol Esp** 1997 Jan; 21(1):28–33 (Eng. Abstr.) **(Spa)**

[Preliminary results of a phase II randomized controlled trial comparing M–VAC and M–CAVI in patients with bladder cancer (T2–4 N0–1 M0)] Bellmunt Molins J, et al. **Arch Esp Urol** 1996 Jun;49(5):465–72 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Telomerase activity in human urothelial tumors [see comments] Kyo S, et al. **Am J Clin Pathol** 1997 May; 107(5):555–60. Comment in: Am J Clin Pathol 1997 May;107(5):505.

Tyrosine kinase expression profile in bladder cancer. Lu TJ, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2635–7

Elevation of serum levels of matrix metalloproteinase–2 and –3 as new predictors of recurrence in patients with urothelial carcinoma. Gohji K, et al. **Cancer** 1996 Dec 1; 78(11):2379–87

Telomerase activity in bladder carcinoma and its implication for noninvasive diagnosis by detection of exfoliated cancer cells in urine. Yoshida K, et al. **Cancer** 1997 Jan 15; 79(2):362–9

The glutathione S-transferase M1 (GSTM1) null genotype and benzidine-associated bladder cancer, urine mutagenicity, and exfoliated urothelial cell DNA adducts. Rothman N, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):979–83

Immunochemical detection of arylamine N-acetyltransferase in normal and neoplastic bladder. Stanley LA, et al. **J Histochem Cytochem** 1996 Sep;44(9):1059–67

Urokinase-type plasminogen activator and its receptor in bladder cancer [editorial; comment] Hasui Y, et al. **J Natl Cancer Inst** 1997 May 21;89(10):678–9 (19 ref.). Comment on: J Natl Cancer Inst 1997 May 21;89(10):709–17.

Detection of telomerase activity in exfoliated cells in urine from patients with bladder cancer. Kinoshita H, et al. **J Natl Cancer Inst** 1997 May 21;89(10):724–30

Polymorphic enzymes of xenobiotic metabolism as modulators of acquired P53 mutations in bladder cancer. Brockmöller J, et al. **Pharmacogenetics** 1996 Dec; 6(6):535–45

Glutathione S-transferase activity and subunit composition in transitional cell cancer and mucosa of the human bladder. Berendsen CL, et al. **Urology** 1997 Apr;49(4):644–51

Telomerase activity: a potential marker of bladder transitional cell carcinoma in bladder washes. Yang SC, et al. **Yonsei Med J** 1997 Jun;38(3):155–9

EPIDEMIOLOGY

Kidney and bladder cancer in Inuit 1969–1988. Lanier AP, et al. **Acta Oncol** 1996;35(5):595–9

Bladder cancer: a selected review of the epidemiological literature. Pirastu R, et al. **Ann Ist Super Sanita** 1996; 32(1):3–20 (110 ref.)

Molecular epidemiology of bladder cancer. Vineis P, et al. **Ann Ist Super Sanita** 1996;32(1):21–7 (39 ref.)

The accuracy of recording of occupational history in patients with bladder cancer [letter] Probert JL, et al. **Br J Urol** 1997 Sep;80(3):512

The National Cancer Data Base report on bladder carcinoma. The American College of Surgeons Commission on Cancer and the American Cancer Society. Fleshner NE, et al. **Cancer** 1996 Oct 1;78(7):1505–13

Bladder carcinoma and other second malignancies after radiotherapy for prostate carcinoma. Neugut AI, et al. **Cancer** 1997 Apr 15;79(8):1600–4

Case-control study of bladder cancer and chlorination

by-products in treated water (Ontario, Canada). King WD, et al. **Cancer Causes Control** 1996 Nov;7(6):596–604

Nutrition and bladder cancer. La Vecchia C, et al. **Cancer Causes Control** 1996 Jan;7(1):95–100 (27 ref.)

Trends in urinary bladder cancer incidence in Sweden 1960–93 with special reference to histopathology, time period, birth cohort, and smoking. Thörn M, et al. **Cancer Causes Control** 1997 Jul;8(4):560–7

Risk factors for lower urinary tract cancer: the role of total fluid consumption, nitrites and nitrosamines, and selected foods. Wilkens LR, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):161–6

Epidemiology of prostate cancer and bladder cancer: an overview. Ross RK. **Cancer Treat Res** 1996;88:1–11 (51 ref.)

Estimating multivariate risk-difference models in case-control studies [letter; comment] Nurminen M. **Epidemiology** 1997 Jan;8(1):111–2. Comment on: Epidemiology 1996 Mar;7(2):144–50.

Time trend and age-period-cohort effect on incidence of bladder cancer in Connecticut, 1935–1992. Zheng T, et al. **Int J Cancer** 1996 Oct 9;68(2):172–6

Bladder cancer incidence in arylamine workers. Ouellet-Hellstrom R, et al. **J Occup Environ Med** 1996 Dec;38(12):1239–47

Coincidence of bladder and prostate cancer. Chun TY. **J Urol** 1997 Jan;157(1):65–7

Surveillance of nasal and bladder cancer to locate sources of exposure to occupational carcinogens. Teschke K, et al. **Occup Environ Med** 1997 Jun;54(6):443–51

Bladder cancer in Estonia, 1968–1992: incidence, mortality, prevalence and survival. Timberg G, et al. **Scand J Urol Nephrol** 1997 Aug;31(4):337–42

Epidemiology and etiology of bladder cancer. Johansson SL, et al. **Semin Surg Oncol** 1997 Sep–Oct;13(5):291–8 (33 ref.)

Increased incidence of non-transitional cell carcinoma of the bladder in women of the Texas Gulf Coast region. Orihuela E, et al. **South Med J** 1997 Aug;90(8):801–5

[Life style and occupational risk factors in bladder carcinoma] Bento MJ, et al. **Acta Med Port** 1997 Jan;10(1):39–45 (Eng. Abstr.) **(Por)**

[Secondary neoplasm in patients with bladder carcinoma. A case-control study] Angulo JC, et al. **Actas Urol Esp** 1996 Sep;20(8):720–4 (Eng. Abstr.) **(Spa)**

[Upper urinary tract and urethral tumors in patients with bladder carcinoma] Angulo J, et al. **Arch Esp Urol** 1997 Mar;50(2):115–20 (Eng. Abstr.) **(Spa)**

[Analysis of prognostic factors in superficial bladder tumors] Páez Borda A, et al. **Arch Esp Urol** 1997 Mar;50(2):121–6 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Adenocarcinoma of the residual bladder following caecocystoplasty for cyclophosphamide-induced cystitis. Khawaja MA, et al. **Br J Urol** 1996 Sep;78(3):465–6

Squamous cell carcinoma in a patient on clean intermittent self-catheterization. Zaidi SZ, et al. **Br J Urol** 1997 Aug; 80(2):352–3

Synchronous signet ring cell carcinoma and squamous cell carcinoma arising in an augmented ileocystoplasty. Case report and review of the literature. Fernandez-Arjona M, et al. **Eur Urol** 1996;29(1):125–8 (14 ref.)

Angiosarcoma of the bladder after therapeutic irradiation for prostate cancer. Navon JD, et al. **J Urol** 1997 Apr; 157(4):1359–60

Screening cystoscopy and survival of spinal cord injured patients with squamous cell cancer of the bladder [see comments] Navon JD, et al. **J Urol** 1997 Jun;157(6):2109–11 . Comment in: J Urol 1997 Jun;157(6):2115.

Promoting effect of unilateral nephrectomy on urinary bladder carcinogenesis in rats. Saikawa S, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1121–4

Bladder cancer epidemiology and pathogenesis. Ross RK, et al. **Semin Oncol** 1996 Oct;23(5):536–45 (81 ref.)

Recurrences and progression of superficial bladder cancer following long-term intravesical prophylactic therapy with mitomycin C: 48-month follow-up. Minervini R, et al. **Urol Int** 1996;56(4):234–7

Radiation-induced urothelial carcinoma. Saito M, et al. **Urol Int** 1996;56(4):254–5

[Bladder cancer in patients with spinal cord injury: report of two cases] Sugimoto K, et al. **Hinyokika Kiyo** 1997 May; 43(5):359–62 (22 ref.) (Eng. Abstr.) **(Jpn)**

[A case of adenocarcinoma of the reconstructed bladder following ileocystoplasty] Ishida T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):439–42 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Ionizing radiation and bladder cancer] Prianichnikova MB. **Urol Nefrol (Mosk)** 1996 Nov–Dec;(6):44–5 (Eng. Abstr.) **(Rus)**

[Risk factors for the development of malignant tumors of the urinary bladder] Gledović Z, et al. **Vojnosanit Pregl** 1996 May–Jun;53(3):223–7 (51 ref.) **(Scr)**

GENETICS

Chromosome 8p deletions are associated with invasive tumor growth in urinary bladder cancer. Wagner U, et al. **Am J Pathol** 1997 Sep;151(3):753–9

Options of flow cytometric three-colour DNA measurements to quantitate EGFR in subpopulations of human bladder cancer. Brockhoff G, et al. **Anal Cell Pathol** 1996 Jun; 11(1):55–70

A new flow cytometric approach to the analysis of DNA and a second parameter. Kusuda L, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):309–15

DNA content and proliferation activity in superficial transitional cell carcinoma of the bladder. Pantazopoulos D, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):781–6

Glutathione S-transferase GSTM1 and GSTT1 null genotypes as potential risk factors for urothelial cancer of the bladder. Kempkes M, et al. **Arch Toxicol** 1996; 71(1–2):123–6

Differential expression of ferritin heavy chain in a rat transitional cell carcinoma progression model. Vet JA, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):39–44

Expression of transforming growth factors beta-1, beta 2 and beta 3 in human bladder carcinomas. Eder IE, et al. **Br J Cancer** 1997;75(12):1753–60

Overexpression of cyclin D1 correlates with early recurrence in superficial bladder cancers. Shin KY, et al. **Br J Cancer** 1997;75(12):1788–92

Clonal identification of Burkitt's lymphoma arising from lymphocyte-predominant Hodgkin's disease. Yoshinaga H, et al. **Br J Haematol** 1996 Nov;95(2):380–2

Genomic heterogeneity in bladder cancer as detected by fluorescence in situ hybridization. Yokogi H, et al. **Br J Urol** 1996 Nov;78(5):699–703

Arylamine N-acetyltransferase 1 (NAT1) and 2 (NAT2) polymorphisms in susceptibility to bladder cancer: the influence of smoking. Okkels H, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr;6(4):225–31

A hot spot for p53 mutation in transitional cell carcinoma of the bladder: clues to the etiology of bladder cancer. Xu X, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug; 6(8):611–6

Cigarette smoking and chromosome 9 alterations in bladder cancer. Zhang ZF, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):321–6

Mutation analysis of 8p genes POLB and PPP2CB in bladder cancer. Eydmann ME, et al. **Cancer Genet Cytogenet** 1997 Feb;93(2):167–71

Cytogenetic findings in a bladder chondrosarcoma [letter] Kingsley KL, et al. **Cancer Genet Cytogenet** 1997 Jul 15; 96(2):183–4

p53 gene mutation in N-butyl-N-(4-hydroxybutyl)nitrosamine-induced urinary bladder tumors and N-methyl-N-nitrosourea-induced colon tumors of rats. Min H, et al. **Cancer Lett** 1997 Jul 15;117(1):81–6

Lack of involvement of p53 gene mutations in N-methyl-N-nitrosourea-induced bladder tumor progression in N-butyl-N-(4-hydroxybutyl)nitrosamine-treated rats and no suppression by indomethacin. Ozaki M, et al. **Cancer Lett** 1997 May 19;115(2):249–55

Transcriptional activation of H-ras, K-ras and N-ras proto-oncogenes in human bladder tumors. Vageli D, et al. **Cancer Lett** 1996 Oct 22;107(2):241–7

Identification and characterization of differentially methylated regions of genomic DNA by methylation-sensitive arbitrarily primed PCR. Gonzalgo ML, et al. **Cancer Res** 1997 Feb 15;57(4):594–9

Hypomethylation of L1 LINE sequences prevailing in human urothelial carcinoma. Jürgens B, et al. **Cancer Res** 1996 Dec 15;56(24):5698–703

Beta 4 integrin transfection of UM-UC-2 (human bladder carcinoma) cells: stable expression of a spontaneous cytoplasmic truncation mutant with rapid loss of clones expressing intact beta 4. Kim SY, et al. **Cancer Res** 1997 Jan 1;57(1):38–42

Marked genetic differences between stage pTa and stage pT1 papillary bladder cancer detected by comparative genomic hybridization. Richter J, et al. **Cancer Res** 1997 Jul 15; 57(14):2860–4

Evidence for two tumor suppressor loci associated with proximal chromosome 9p to q and distal chromosome 9q in bladder cancer and the initial screening for GAS1 and PTC mutations. Simoneau AR, et al. **Cancer Res** 1996 Nov 1;56(21):5039–43

Genetic polymorphism of GSTM1, CYP2E1 and CYP2D6 in Egyptian bladder cancer patients. Anwar WA, et al. **Carcinogenesis** 1996 Sep;17(9):1923–9

Identification of genetic polymorphisms at the glutathione S-transferase Pi locus and association with susceptibility to bladder, testicular and prostate cancer. Harries LW, et al. **Carcinogenesis** 1997 Apr;18(4):641–4

Reversion of uroepithelial cell tumorigenesis by the ectopic expression of human wnt-5a. Olson DJ, et al. **Cell Growth Differ** 1997 Apr;8(4):417–23

Bladder cancer. Ozen H. **Curr Opin Oncol** 1996 May; 8(3):259–63 (20 ref.)

Variability of DNA analysis by image cytometry. Bladder Tumor Marker Network. Reeder JE, et al. **Cytometry** 1997 Jun 1;28(2):176–80

Cigarette smoking and p53 mutations in lung cancer and bladder cancer. Husgafvel-Pursiainen K, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:553–6

Glutathione S-transferase and multidrug-resistant phenotype in transitional cell carcinoma of the bladder. Akdaş A, et al. **Eur Urol** 1996;29(4):470–6

Evaluation of c-ras oncogene product (p21) in superficial bladder cancer. Fontana D, et al. **Eur Urol** 1996;29(4):470–6

Abnormal c-myc oncogene DNA methylation in human bladder cancer: possible role in tumor progression. Sardi I, et al. **Eur Urol** 1997;31(2):224–30

Relationship of genetic instability with immunoreactivities for p53 protein and proliferating cell nuclear antigen in transitional cell carcinoma of the bladder. Shiina H, et al. **Eur Urol** 1996;30(1):80–8

p53 and c-jun expression in urinary bladder transitional cell carcinoma: correlation with proliferating cell nuclear antigen (PCNA) histological grade and clinical stage. Skopelitou A, et al. **Eur Urol** 1997;31(4):464–71

DNA-aneuploidy as marker for neoplasia in G1-urothelial carcinomas. Planz B, et al. **Gen Diagn Pathol** 1996 Oct; 142(2):69–73

Frequent homozygous deletion of cyclin-dependent kinase inhibitor 2 (MTS1, p16) in superficial bladder cancer detected by fluorescence in situ hybridization. Balázs M, et al. **Genes Chromosomes Cancer** 1997 Jun;19(2):84–9

Fluorescence in situ hybridization deletion mapping at 4p16.3 in bladder cancer cell lines refines the localisation of the critical interval to 30 kb. Bell SM, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):108–17

A novel candidate tumour suppressor locus at 9q32–33 in bladder cancer: localization of the candidate region within a single 840 kb YAC. Habuchi T, et al. **Hum Mol Genet** 1997 Jun;6(6):913–9

Prognostic significance of nuclear DNA content and S-phase fraction by flow cytometry in primary papillary superficial bladder cancer. Têtu B, et al. **Hum Pathol** 1996 Sep; 27(9):922–6

Deletion analysis at the DEL-27, APC and MTS1 loci in bladder cancer: LOH at the DEL-27 locus on 5p13–12 is a prognostic marker of tumor progression. Böhm M, et al. **Int J Cancer** 1997 Jun 20;74(3):291–5

Abrogation of apoptosis induced by DNA-damaging agents in human bladder-cancer cell lines with p21/WAF1/CIP1 and/or p53 gene alterations. Kawasaki T, et al. **Int J Cancer** 1996 Nov 15;68(4):501–5

DNA repair capacity and cisplatin sensitivity of human testis tumour cells. Köberle B, et al. **Int J Cancer** 1997 Mar 4; 70(5):551–5

Homozygous deletions of p16(INK4) occur frequently in bilharziasis-associated bladder cancer. Tamimi Y, et al. **Int J Cancer** 1996 Oct 9;68(2):183–7

Relationship between radiation response and p53 status in human bladder cancer cells. Ribeiro JC, et al. **Int J Radiat Biol** 1997 Jul;72(1):11–20

Screening of H-ras gene point mutations in 50 cases of bladder carcinoma. Saito S, et al. **Int J Urol** 1997 Mar; 4(2):178–85

Correlation of allelic loss of the P53 gene and tumor grade, stage, and malignant progression in bladder cancer. Tsutsumi M, et al. **Int J Urol** 1997 Jan;4(1):74–8

Bladder washing flow cytometry assessment of nephrogenic adenoma of the bladder. Kontothanassis D, et al. **Int Urol Nephrol** 1996;28(4):495–7

Predictive value of argyrophilic nucleolar-organizer-region-associated proteins in bladder cancer, using cell-imprint preparations. Masuda M, et al. **J Cancer Res Clin Oncol** 1997;123(1):1–5

Genetic susceptibility to cancer from exogenous and endogenous exposures. Feigelson HS, et al. **J Cell Biochem Suppl** 1996;25:15–22 (48 ref.)

Eradication of murine bladder carcinoma by intratumor injection of a bicistronic adenoviral vector carrying cDNAs for the IL-12 heterodimer and its inhibition by the IL-12 p40 subunit homodimer. Chen L, et al. **J Immunol** 1997 Jul 1;159(1):351–9

Deletions of 9p21 and TP53 in bladder cancer. Park WS, et al. **J Korean Med Sci** 1996 Jun;11(3):233–8

Genetics of bladder cancer. Saran KK, et al. **J Mol Med** 1996 Aug;74(8):441–5 (79 ref.)

Clonal analysis of human recurrent superficial bladder cancer by immunohistochemistry of P53 and retinoblastoma proteins. Chern HD, et al. **J Urol** 1996 Nov;156(5):1846–9

Genetically regulated response to intravesical bacillus Calmette Guerin immunotherapy of orthotopic murine bladder tumor. Kadhim SA, et al. **J Urol** 1997 Aug; 158(2):646–52

Enhanced expression of gamma-glutamylcysteine synthetase and glutathione S-transferase genes in cisplatin-resistant bladder cancer cells with multidrug resistance phenotype. Kotoh S, et al. **J Urol** 1997 Mar;157(3):1054–8

Deoxyribonucleic acid ploidy and the clinical pattern of grade 2 superficial bladder cancer [see comments] Neulander E, et al. **J Urol** 1997 Apr;157(4):1254–8; discussion 1258–9. Comment in: J Urol 1997 Apr;157(4):1266–7.

Detection of c-erbB-2 amplification in transitional cell bladder carcinoma using competitive PCR technique. Orlando C, et al. **J Urol** 1996 Dec;156(6):2089–93

Fluorescence in situ hybridization identifies more aggressive types of primarily noninvasive (stage pTa) bladder cancer. Pycha A, et al. **J Urol** 1997 Jun;157(6):2116–9

Mutation of the tumor suppressor gene p53 in human prostate and bladder cancers--investigation by temperature gradient gel electrophoresis (TGGE). Schlechte HH, et al. **J Urol** 1997 Mar;157(3):1049–53

Deoxyribonucleic acid ploidy enhances the cytological prediction of recurrent transitional cell carcinoma of the bladder. Slaton JW, et al. **J Urol** 1997 Sep;158(3 Pt 1):806–11

Quantitative trait loci associated with promoting effects of

sodium L-ascorbate on two-stage bladder carcinogenesis in rats. Kamoto T, et al. **Jpn J Cancer Res** 1997 Jul; 88(7):633-8

Decreased expression of the p16/MTS1 gene without mutation is frequent in human urinary bladder carcinomas. Asamoto M, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):22-5

p53 mutations in multiple urothelial carcinomas: a molecular analysis of the development of multiple carcinomas. Goto K, et al. **Mod Pathol** 1997 May;10(5):428-37

Rejoining of DNA double-strand breaks after the introduction of chromosome 11 into a radiosensitive bladder carcinoma cell line. Hofseth LJ, et al. **Mutat Res** 1997 Jan 31;383(1):21-30

p53 and treatment of bladder cancer [letter; comment] Cote RJ, et al. **Nature** 1997 Jan 9;385(6612):123-5. Comment on: Nature 1996 Jun 20;381(6584):713-6.

Frequent loss of heterozygosity on chromosome 10q in muscle-invasive transitional cell carcinomas of the bladder. Cappellen D, et al. **Oncogene** 1997 Jun 26;14(25):3059-66

Superimposed histologic and genetic mapping of chromosome 17 alterations in human urinary bladder neoplasia. Chaturvedi V, et al. **Oncogene** 1997 May 1; 14(17):2059-70

Infrequent somatic mutations of the p16 and p15 genes in human bladder cancer: p16 mutations occur only in low-grade and superficial bladder cancers. Miyamoto H, et al. **Oncol Res** 1995;7(7-8):327-30

Polymorphic enzymes of xenobiotic metabolism as modulators of acquired P53 mutations in bladder cancer. Brockmöller J, et al. **Pharmacogenetics** 1996 Dec; 6(6):535-45

Glutathione S-transferase mu as a risk factor in bladder tumours. Okkels H, et al. **Pharmacogenetics** 1996 Jun; 6(3):251-6

Expression of glutathione S-transferase activity and glutathione content in squamous cell carcinoma of bladder associated with schistosomiasis in a population in Egypt. Ghazaly GE, et al. **Scand J Urol Nephrol** 1997 Feb; 31(1):43-7

Predictive value of DNA ploidy in bladder cancer treated with preoperative radiation therapy and cystectomy. Granfors T, et al. **Scand J Urol Nephrol** 1996 Aug; 30(4):281-5

Alterations of tumor suppressor genes in bladder cancer. Cordon-Cardo C, et al. **Semin Diagn Pathol** 1997 May; 14(2):123-32 (61 ref.)

A molecular genetic model of human bladder cancer pathogenesis. Reznikoff CA, et al. **Semin Oncol** 1996 Oct; 23(5):571-84 (153 ref.)

Genetic studies and molecular markers of bladder cancer. Cordon-Cardo C, et al. **Semin Surg Oncol** 1997 Sep-Oct; 13(5):319-27 (73 ref.)

3,2'-Dimethyl-4-aminobiphenyl-DNA adduct formation in tumor target and nontarget organs of rapid and slow acetylator Syrian hamsters cogenic at the NAT2 locus. Feng Y, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):315-21

Enhanced gene expression of transforming growth factor-alpha and c-met in rat urinary bladder cancer. Inui M, et al. **Urol Res** 1996;24(1):55-60

Introduction of wild-type p53 gene downregulates the expression of H-ras gene and suppresses the growth of bladder cancer cells. Li M, et al. **Urol Res** 1995; 23(5):311-314

DNA aberrations in urinary bladder cancer detected by flow cytometry and FISH. Sauter G, et al. **Urol Res** 1997;25 Suppl 1:S37-43

The 9p21 region in bladder cancer cell lines: large homozygous deletion inactivate the CDKN2, CDKN2B and MTAP genes. Stadler WM, et al. **Urol Res** 1996; 24(4):239-44

Significance of p53 overexpression in urinary bladder transitional cell carcinoma in situ before and after bacillus Calmette-Guérin treatment. Ick K, et al. **Urology** 1997 Apr; 49(4):541-6; discussion 546-7

Molecular and immunopathology studies of oncogenes and tumor-suppressor genes in bladder cancer. Cordon-Cardo C, et al. **World J Urol** 1997;15(2):112-9 (72 ref.)

Molecular biology of dissemination in bladder cancer--laboratory findings and clinical significance. Schmitz-Dräger BJ, et al. **World J Urol** 1996;14(3):190-6 (73 ref.)

[Detection and clinical pathological significance of the expression of P21, P185, p53 proteins and mutation of ras, p53 genes in transitional cell carcinoma of the bladder] Yu D, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):202-5 (Eng. Abstr.) **(Chi)**

[The study of p53 gene mutation in human bladder cancer] Ding Q, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov; 33(11):684-6 (Eng. Abstr.) **(Chi)**

[Inhibitory effects of malignant phenotype of human bladder cancer cell line by c-Ha-ras, c-myc antisense oligodeoxynucleotide] Li M, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):7-9 (Eng. Abstr.) **(Chi)**

[IL-6 gene expression in human tumor cell lines] Zhong H, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):22-4 (Eng. Abstr.) **(Chi)**

[Clinical relevance of acetylator phenotyping in 196 urothelial tumor patients] Schöps W, et al. **Urologe A** 1997 Jan;36(1):64-7 (Eng. Abstr.) **(Ger)**

[Gene p53 mutation and prognosis in bladder tumors] Polito M, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:65-8 (Eng. Abstr.) **(Ita)**

[Tumor suppressive function of gelsolin] Kuzumaki N, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1436-41 (35 ref.) (Eng. Abstr.) **(Jpn)**

[Chromosomal numerical aberrations in bladder cancer detected by fluorescence in situ hybridization (FISH)] Inoue T. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep; 87(9):1092-8 (Eng. Abstr.) **(Jpn)**

HISTORY

Summary of effect of intravesical bacillus Calmette-Guerin (BCG) on carcinoma in situ of the bladder (by Harry W. Herr, MD, Carl M. Pinsky, MD, Willet F. Whitmore, Jr, MD, Herbert F. Oettgen, MD, and Myron R. Melamed, MD). 1983. Herr HW, et al. **Semin Urol Oncol** 1997 May; 15(2):80-5

Summary of transitional cell carcinoma of the urethra in men having cystectomy for bladder cancer (by Paul F. Schellhammer, MD, and Willet F. Whitmore, Jr, MD). 1976. Schellhammer PF, et al. **Semin Urol Oncol** 1997 May; 15(2):99-104

Summary of preoperative irradiation and cystectomy for bladder cancer (by Joseph A. Smith, Jr, MD, Mostafa Batata, MD, Harry Grabstald, MD, Pramod C. Sogani, MD, Harry Herr, MD, and Willet F. Whitmore, Jr, MD). 1982. Smith JA Jr, et al. **Semin Urol Oncol** 1997 May; 15(2):86-93

Summary of complications of ureteroileal conduit with radical cystectomy: review of 336 cases (by Jerry W. Sullivan, MD, Harry Grabstald, MD, and Willet F. Whitmore, Jr). 1980. Sullivan JW, et al. **Semin Urol Oncol** 1997 May;15(2):94-8

IMMUNOLOGY

Advertisement for the Bard BTA test for bladder cancer [letter] Marshall KG. **Am Fam Physician** 1997 Mar; 55(4):1078, 1080, 1085-6 passim

Limits of flow-cytometry histogram analysis methods to assess bladder tumour antigen expression. Chabanas A, et al. **Anal Cell Pathol** 1997;13(1):39-47

A new flow cytometric approach to the analysis of DNA and a second parameter. Kusuda L, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):309-15

Luminal epithelial antigen (LEA.135) expression correlates with tumor progression for transitional carcinoma of the bladder. Jones HL, et al. **Anticancer Res** 1997 Jan-Feb; 17(1B):685-7

Modulation of the immunostimulating effect of autologous tumor vaccine by anti-TGF-beta antibody and interferon-alpha on murine MBT-2 bladder cancer. Tzai TS, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1073-8

Are gamma delta T lymphocytes involved in intravesical bacillus Calmette-Guerin immunotherapy of bladder cancer? Alexandroff AB, et al. **Biochem Soc Trans** 1997 May;25(2):363S

Purification and characterisation of soluble intercellular adhesion molecule-1 and its effect on cell-mediated cytolysis of bladder tumour cells. Young DG, et al. **Biochem Soc Trans** 1997 May;25(2):365S

Effects of colony-stimulating factors on cellular cytotoxicity. Durek C, et al. **Cancer Immunol Immunother** 1997 Mar; 44(1):35-40

Humoral response against heat shock proteins and other mycobacterial antigens after intravesical treatment with bacille Calmette-Guérin (BCG) in patients with superficial bladder cancer. Zlotta AR, et al. **Clin Exp Immunol** 1997 Jul;109(1):157-65

Comparison of natural killer (NK) sensitivities of two tumor cell lines established from a cancer patient before and after radiation therapy. Komatsu F, et al. **Clin Immunol Immunopathol** 1997 Feb;82(2):190-6

T lymphocytes infiltrating the bladder wall of patients with carcinoma of urinary bladder are in vivo activated. Reyes E, et al. **Eur Urol** 1997;31(4):472-7

Influence of spatial configuration on the expression of carcinoembryonic antigen and mucin antigens in human bladder cancer. LaRue H, et al. **Int J Cancer** 1997 Jun 11;71(6):986-92

Transitional cell neoplasms of the ovary and urinary bladder: a comparative immunohistochemical analysis. Soslow RA, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):257-65

Evolution and clinical significance of the T cell proliferative and cytokine response directed against the fibronectin binding antigen 85 complex of bacillus Calmette-Guerin during intravesical treatment of superficial bladder cancer. Zlotta AR, et al. **J Urol** 1997 Feb;157(2):492-8

Soluble CD44 variants in the serum of patients with urological malignancies. Lein M, et al. **Oncology** 1997 May-Jun;54(3):226-30

Polyclonal Ki-67 expression in transitional cell carcinoma of the bladder. Jones HL, et al. **Pathology** 1997 Feb; 29(1):84-7

Expression of SSEA-1 (Lewis(x)) on transitional cell carcinoma of the bladder. Konety BR, et al. **Urol Int** 1997; 58(2):69-74

Comparison of immunological changes between subcutaneous and intravenous route of administration of IL-2 in cancer patients. Nouri AM, et al. **Urol Int** 1996; 56(1):1-5

Expression of MIB-1, mitotic index and S-phase fraction as indicators of cell proliferation in superficial bladder cancer. Finnbladder Group. Liukkonen TJ, et al. **Urol Res** 1996;24(1):61-6

Construction and expression of single-chain Fv antibody against human bladder carcinoma. Yu LZ, et al. **Urol Res** 1996;24(5):273-7

[Level and significance of the soluble interleukin-2 receptor expression in serum of patients with bladder cancer] Wen R, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):16-8 (Eng. Abstr.) **(Chi)**

[Amplification, cloning and sequence analysis of the variable region genes of monoclonal antibody against human bladder carcinoma] Xiao S, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):13-5 (Eng. Abstr.) **(Chi)**

[Clinical value of the study of proliferation and cell activation antigens with flow cytometry in bladder cancer] Lacombe L, et al. **Prog Urol** 1996 Dec;6(6):907-12 (Eng. Abstr.) **(Fre)**

[Role of MCP-1 chemokine in the response of monocytes of patients with superficial tumors of the bladder treated with BCG immunotherapy] Iantorno R, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:71-2 (Eng. Abstr.) **(Ita)**

[Response of lymphocytes and cytokines in patients with superficial bladder cancer treated with 1 mg of BCG vaccine instillations] Rivera P, et al. **Actas Urol Esp** 1996 Oct;20(9):812-7 (Eng. Abstr.) **(Spa)**

METABOLISM

Connexin expression and intercellular communication in two- and three-dimensional in vitro cultures of human bladder carcinoma. Knuechel R, et al. **Am J Pathol** 1996 Oct; 149(4):1321-32

Improved prognosis assessment for patients with bladder carcinoma. Otto T, et al. **Am J Pathol** 1997 Jun; 150(6):1919-23

Analysis of anomalous CD44 gene expression in human breast, bladder, and colon cancer and correlation of observed mRNA and protein isoforms. Woodman AC, et al. **Am J Pathol** 1996 Nov;149(5):1519-30

Expression of three cell adhesion molecules in bladder carcinomas: correlation with pathological features. Mialhe A, et al. **Anal Cell Pathol** 1997 May;13(3):125-36

Detection of the p35 and p40 subunits of interleukin-12 in melanoma and bladder cancer cell lines. Stanley AJ, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:384-6

Prognostic significance of proliferating cell nuclear antigen expression in transitional cell carcinoma of the upper urinary tract. Cheng HL, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2789-93

An assessment of interleukin-1 alpha and interleukin-1 beta production in patients with bladder cancer. Kuo JY, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3067-70

Confocal microscopy of idarubicin localisation in sensitive and multidrug-resistant bladder cancer cell lines [see comments] Duffy PM, et al. **Br J Cancer** 1996 Sep; 74(6):906-9. Comment in: Br J Cancer 1997;76(1):136.

Constitutive production of multiple cytokines and a human chorionic gonadotrophin beta-subunit by a human bladder cancer cell line (KU-19-19): possible demonstration of totipotential differentiation. Tachibana M, et al. **Br J Cancer** 1997;76(2):163-74

Effects of isoniazid on the proliferation and cytokine production of bladder cancer cells in vitro induced by bacille Calmette-Guérin. Bevers RF, et al. **Br J Urol** 1997 Jul;80(1):35-9

Nuclear accumulation of mutant p53 protein: a possible predictor of failure of intravesical therapy in bladder cancer. Caliskan M, et al. **Br J Urol** 1997 Mar;79(3):373-7

Expression of bcl-2 and p53 oncoproteins in schistosomiasis-associated transitional and squamous cell carcinoma of urinary bladder. Chaudhary KS, et al. **Br J Urol** 1997 Jan;79(1):78-84

Prognostic value of Ki-67 antigen and p53 protein in urinary bladder cancer: immunohistochemical analysis of radical cystectomy specimens. Tsuji M, et al. **Br J Urol** 1997 Mar; 79(3):367-72

Expression of platelet-derived endothelial cell growth factor in bladder carcinoma. Mizutani Y, et al. **Cancer** 1997 Mar 15;79(6):1190-4

Localization of anthracycline accumulation in sensitive and resistant urothelial tumor cell lines. Davies CL, et al. **Cancer Detect Prev** 1996;20(6):625-33

Loss of adipocyte-type fatty acid binding protein and other protein biomarkers is associated with progression of human bladder transitional cell carcinomas. Celis JE, et al. **Cancer Res** 1996 Oct 15;56(20):4782-90

Cooperative effects of p53 and pRB alterations in primary superficial bladder tumors. Cordon-Cardo C, et al. **Cancer Res** 1997 Apr 1;57(7):1217-21

Two- and three-dimensional cell structures govern epidermal growth factor survival function in human bladder carcinoma cell lines. Dangles V, et al. **Cancer Res** 1997 Aug 15;57(16):3360-4

Two mechanisms of basic fibroblast growth factor-induced angiogenesis in bladder cancer. O'Brien T, et al. **Cancer Res** 1997 Jan 1;57(1):136-40

Expression of the angiogenic factor thymidine phosphorylase/platelet-derived endothelial cell growth factor in primary bladder cancers. O'Brien TS, et al. **Cancer Res** 1996 Oct 15;56(20):4799-804

Two cytodifferentiation agent-induced pathways, differentiation and apoptosis, are distinguished by the expression of human papillomavirus 16 E7 in human bladder carcinoma cells. Richon VM, et al. **Cancer Res** 1997 Jul 1;57(13):2789-98

Tobacco smoke, recurrences, and p53/bcl-2 expression in bladder cancer. Pacchioni D, et al. **Carcinogenesis** 1997 Aug;18(8):1659-61

Role of P-glycoprotein in chemoresistant superficial bladder tumours. Nargund VH, et al. **Eur Urol** 1997;31(2):160-2

Cytokeratin 20 expression by non-invasive transitional cell carcinomas: potential for distinguishing recurrent from non-recurrent disease. Harnden P, et al. **Histopathology** 1995 Aug;27(2):169-74

Immunohistochemical evaluation of nm23-H1 gene product in transitional cell carcinoma of the bladder. Nakopoulou LL, et al. **Histopathology** 1996 May;28(5):429-35

Immunodetection of androgen receptor in human urinary bladder cancer. Zhuang YH, et al. **Histopathology** 1997 Jun;30(6):556-62

Expression and functions of EGF, FGF and TGFbeta-growth-factor family members and their receptors in invasive human transitional-cell-carcinoma cells. De Boer WI, et al. **Int J Cancer** 1997 Apr 10; 71(2):284-91

Interleukin-6 functions as an autocrine growth factor in human bladder carcinoma cell lines in vitro. Okamoto M, et al. **Int J Cancer** 1997 Jul 3;72(1):149-54

Binding, internalization and degradation of EGF-dextran conjugates in two human bladder-cancer cell lines. Sjöström A, et al. **Int J Cancer** 1997 Feb 7;70(4):383-9

Mechanism of increased sensitivity to etoposide in a mitomycin C-resistant human bladder cancer cell line. Xia H, et al. **Int J Cancer** 1997 Mar 4;70(5):606-11

PCNA and p53 in urinary bladder cancer: correlation with histological findings and prognosis. Inagaki T, et al. **Int J Urol** 1997 Mar;4(2):172-7

Correlation of nuclear p53 over-expression with clinical and histopathological features of transitional cell bladder cancer. Sinik Z, et al. **Int Urol Nephrol** 1997;29(1):25-31

Overexpression of p53 protein in a high-risk population of patients with superficial bladder cancer before and after bacillus Calmette-Guérin therapy: correlation to clinical outcome. Lacombe L, et al. **J Clin Oncol** 1996 Oct; 14(10):2646-52

Expression of the type 1 tyrosine kinase growth factor receptors EGF receptor, c-erbB2 and c-erbB3 in bladder cancer. Rajkumar T, et al. **J Pathol** 1996 Aug;179(4):381-5

In vivo fluorescence kinetics of porphyrins following intravesical instillation of 5-aminolaevulinic acid in normal and tumour-bearing rat bladders. Heil P, et al. **J Photochem Photobiol B** 1997 Apr;38(2-3):158-63

Tumor-associated antigens in normal mucosa of patients with superficial transitional cell carcinoma of the bladder. Lee E, et al. **J Urol** 1997 Mar;157(3):1070-3

Basic fibroblast growth factor regulates matrix metalloproteinases production and in vitro invasiveness in human bladder cancer cell lines. Miyake H, et al. **J Urol** 1997 Jun;157(6):2351-5

Clinical significance of multi-drug resistance associated protein and P-glycoprotein in patients with bladder cancer [see comments] Nakagawa M, et al. **J Urol** 1997 Apr; 157(4):1260-4; discussion 1264-5. Comment in: J Urol 1997 Apr;157(4):1266-7.

Transurethral bladder tumor resection alters fibronectin expression in transitional carcinoma cell lines. See WA, et al. **J Urol** 1997 Mar;157(3):1136-43

The human bladder carcinoma cell line 5637 constitutively secretes functional cytokines. Quentmeier H, et al. **Leuk Res** 1997 Apr;21(4):343-50

Expression of the CD44 cell adhesion molecule in urinary bladder transitional cell carcinoma. Ross JS, et al. **Mod Pathol** 1996 Aug;9(8):854-60

Expression of bcl-2 in bladder neoplasms is a cell lineage associated and p53-independent event. Lu QL, et al. **Mol Pathol** 1997 Feb;50(1):28-33

Decreased expression of keratinocyte growth factor receptor in a subset of human transitional cell bladder carcinomas. Diez de Medina SG, et al. **Oncogene** 1997 Jan 23; 14(3):323-30

Studies of X-irradiated bladder cancer cell lines showing differences in p53 status: absence of a p53-dependent cell cycle checkpoint pathway. Ribeiro JC, et al. **Oncogene** 1996 Sep 19;13(6):1269-78

Analysis of p21WAF1/CIP1 in primary bladder tumors. Lacombe L, et al. **Oncol Res** 1996;8(10-11):409-14

Carcinosarcoma of the urinary bladder: expression of epithelial markers and different expression of heat shock proteins between epithelial and sarcomatous elements. Kamishima T, et al. **Pathol Int** 1997 Feb-Mar; 47(2-3):166-73

Disturbance of cellular calcium homeostasis by in vitro application of shock waves. Suhr D, et al. **Ultrasound Med Biol** 1996;22(5):671-9

Efficacy of low-molecular-weight heparin and unfractionated heparin to prevent adhesion of human prostate and bladder carcinoma and melanoma cells to bovine endothelial monolayers. An in vitro study and review of the literature. Lersch C, et al. **Urol Int** 1996; 56(4):230-3

Defective expression of adhesion molecules on human bladder tumour and human tumour cell lines. Nouri AM, et al. **Urol Int** 1996;56(1):6-12

Absorption of vitamin B12 administered to continent ileal reservoirs for urinary diversion. Riedasch G, et al. **Urol Int** 1996;56(4):224-9

Immunohistochemical determination of p53 overexpression. An easy and readily available method to identify progression in superficial bladder cancer? Burkhard FC, et al. **Urol Res** 1997;25 Suppl 1:S31-5

Expression and prognostic value of proliferating cell nuclear antigen in transitional cell carcinoma of the urinary bladder. Chen G, et al. **Urol Res** 1997;25(1):25-30

Uptake and intracellular distribution of idarubicin in secondary cultures of normal and neoplastic urothelium. De Angeli S, et al. **Urol Res** 1997;25(2):125-30

Immunoreactivity of bcl-2, p53 and EGFr is associated with tumor stage, grade and cell proliferation in superficial bladder cancer. Finnbladder III Group. Liukkonen TJ, et al. **Urol Res** 1997;25(1):1-7

Evaluation of epidermal growth factor receptor, transforming growth factor alpha, epidermal growth factor and c-erbB2 in the progression of invasive bladder cancer. Ravery V, et al. **Urol Res** 1997;25(1):9-17

Local expression of cytokines in rat bladder carcinoma tissue after intravesical treatment with Nocardia rubra cell wall skeleton and bacille-Calmette-Guerin. Rohde D, et al. **Urol Res** 1997;25(1):19-24

c-myc in bladder cancer. Clinical findings and analysis of mechanism. Schmitz-Dräger BJ, et al. **Urol Res** 1997;25 Suppl 1:S45-9

Localization of zinc and metallothionein in the rat bladder epithelium during carcinogenesis induced by N-butyl-N-(4-hydroxybutyl) nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(5):279-83

Clinical evaluation of soluble cytokeratin 19 fragments (CYFRA 21-1) in serum and urine of patients with bladder cancer. Senga Y, et al. **Urology** 1996 Nov;48(5):703-10

Growth factors in bladder cancer. Liebert M. **World J Urol** 1995;13(6):349-55 (121 ref.)

Extracellular matrix and integrin composition of the normal bladder wall. Wilson CB, et al. **World J Urol** 1996;14 Suppl 1:S30-7

MORTALITY

Survival after curative treatment of muscle-invasive bladder cancer. Fossa SD, et al. **Acta Oncol** 1996;35 Suppl 8:59-65

Decreasing bladder cancer mortality in The Netherlands. Kiemeney LA, et al. **Br J Urol** 1996 Nov;78(5):686-90

Arsenic and bladder cancer mortality [letter; comment] Brown KG, et al. **Epidemiology** 1996 Sep;7(5):557-8. Comment on: Epidemiology 1996 Mar;7(2):117-24.

Bladder cancer mortality associated with arsenic in drinking water in Argentina [see comments] [published erratum appears in Epidemiology 1997 May;8(3):334] Hopenhayn-Rich C, et al. **Epidemiology** 1996 Mar; 7(2):117-24. Comment in: Epidemiology 1996 Mar;7(2):113-5. Comment in: Epidemiology 1996 Sep;7(5):557-8.

Radical cystectomy for carcinoma of the bladder: critical evaluation of the results in 1,026 cases. Ghoneim MA, et al. **J Urol** 1997 Aug;158(2):393-9

Long-term followup of all patients with muscle invasive (stages T2, T3 and T4) bladder carcinoma in a geographical region [see comments] Holmäng S, et al. **J Urol** 1997 Aug; 158(2):389-92. Comment in: J Urol 1997 Aug;158(2):406-7.

Does current chemotherapy improve survival of patients with invasive bladder cancer? Herr HW. **Urology** 1997 Mar; 49(3):309-12

[Clinical course of superficial transitional carcinoma of the bladder without poor prognostic factors] Arrizabalaga Moreno M, et al. **Actas Urol Esp** 1997 Mar;21(3):187-94 (Eng. Abstr.) **(Spa)**

[Survival in stage T2-T3A bladder cancer treated with radical cystectomy] Angulo Cuesta J, et al. **Arch Esp Urol** 1997 Jan-Feb;50(1):17-23; discussion 24-5 (Eng. Abstr.) **(Spa)**

[Bladder cancer survival, study of 557 cases identified at the autonomous community of La Rioja from 1975 to 1991] Fernández Fernández A, et al. **Arch Esp Urol** 1997 Apr; 50(3):260-4 (Eng. Abstr.) **(Spa)**

[Prognostic value of lymphatic metastasis in bladder cancer] Martínez-Piñeiro L, et al. **Arch Esp Urol** 1997 May; 50(4):365-71 (Eng. Abstr.) **(Spa)**

PARASITOLOGY

[Anatomopathological aspects of 25 cases of bilharzial bladder cancer] Nouhou PH, et al. **Bull Soc Pathol Exot** 1996;89(3):181-4 (6 ref.) (Eng. Abstr.) **(Fre)**

PATHOLOGY

MR intervention in the pelvis: an overview and first experiences in MR-guided biopsy in nodal metastases in urinary bladder cancer. Barentsz JO. **Abdom Imaging** 1997 Sep-Oct;22(5):524-30

Alcoholic carbowax prefixation and formal alcohol fixation. A new technique for urine cytology. Tang CS, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1183-8

Bladder washing cytology. Comparison of two analytic methods and two proposed quantitative criteria for carcinoma in situ. Wachtel MS, et al. **Acta Cytol** 1996 Sep-Oct;40(5):921-8

Penile metastases from bladder carcinoma [letter] Filosa G, et al. **Acta Derm Venereol** 1996 May;76(3):250-1

Nucleolar organizer region in transitional cell carcinoma of the bladder. Pisac VP, et al. **Acta Med Croatica** 1997; 51(2):83-6

Pelvic adenopathy in prostatic and urinary bladder carcinoma: MR imaging with a three-dimensional TI-weighted magnetization-prepared-rapid gradient-echo sequence. Jager GJ, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1503-7

Invasion of the urinary bladder by uterine cervical carcinoma: evaluation with MR imaging. Kim SH, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):393-7

Recommendations for the reporting of urinary bladder specimens containing bladder neoplasms. Association of Directors of Anatomic and Surgical Pathology. **Am J Clin Pathol** 1996 Nov;106(5):568-70

Urothelial transitional cell carcinoma with endophytic growth patterns: a discussion of patterns of invasion and problems associated with assessment of invasion in 18 cases. Amin MB, et al. **Am J Surg Pathol** 1997 Sep;21(9):1057-68

Transitional cell carcinomas of the urinary bladder that may be underdiagnosed. A report of four invasive cases exemplifying the homology between neoplastic and non-neoplastic transitional cell lesions. Young RH, et al. **Am J Surg Pathol** 1996 Dec;20(12):1448-54

Options of flow cytometric three-colour DNA measurements to quantitate EGFR in subpopulations of human bladder cancer. Brockhoff G, et al. **Anal Cell Pathol** 1996 Jun; 11(1):55-70

The computer-assisted microscope analysis of Feulgen-stained nuclei linked to a supervised learning algorithm as an aid to prognosis assessment in invasive transitional bladder cell carcinomas. Decaestecker C, et al. **Anal Cell Pathol** 1996 May;10(3):263-80

Expression of three cell adhesion molecules in bladder carcinomas: correlation with pathological features. Mialhe A, et al. **Anal Cell Pathol** 1997 May;13(3):125-36

Grading in superficial papillary bladder carcinoma, with an emphasis on nuclear orientation. Dalla Palma P, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):305-8

Comparison of histologic and cytologic specimens of urothelial carcinoma with image analysis. Implications for grading. Forte JD, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):158-66

The epidermal growth factor receptor is involved in autocrine growth of human bladder carcinoma cell lines. Ruck A, et al. **Anticancer Res** 1997 May-Jun; 17(3C):1925-31

Antiproliferative effect of IL-6 on transitional cell carcinoma of the bladder. Insight into mechanisms of bacillus Calmette-Guerin immunotherapy. Alexandroff AB, et al. **Biochem Soc Trans** 1997 May;25(2):270S

Purification and characterisation of soluble intercellular adhesion molecule-1 and its effect on cell-mediated cytolysis of bladder tumour cells. Young DG, et al. **Biochem Soc Trans** 1997 May;25(2):365S

Evaluation of anchorage-independent proliferation in tumorigenic cells using the redox dye alamarBlue. Gray GD, et al. **Biotechniques** 1996 Nov;21(5):780,782

The use of the bladder-tumour associated analyte test to determine the type of cystoscopy in the follow-up of patients with bladder cancer. The United Kingdom and Eire Bladder Tumour Antigen Study Group. **Br J Urol** 1997 Mar;79(3):362-6

Effects of isoniazid on the proliferation and cytokine production of bladder cancer cells in vitro induced by bacille Calmette-Guérin. Bevers RF, et al. **Br J Urol** 1997 Jul;80(1):35-9

Management of superficial bladder cancer [letter; comment] Crew JP, et al. **Br J Urol** 1997 May;79(5):818. Comment on: Br J Urol 1996 Sep;78(3):372-8.

Retrovesical cellular schwannoma. Fernandez JM, et al. **Br J Urol** 1997 Mar;79(3):473-4

Significant telomere reduction in human superficial transitional cell carcinoma. Kamata S, et al. **Br J Urol** 1996 Nov;78(5):704-8

Lymph-node revealing solution: a new method for detecting minute lymph nodes in cystectomy specimens. Koren R, et al. **Br J Urol** 1997 Jul;80(1):40-3

The nested variant of transitional cell carcinoma of the urinary bladder. Paik SS, et al. **Br J Urol** 1996 Nov; 78(5):793-4

The clinical and histological features of transitional cell carcinoma of the bladder with microcysts: analysis of 12 cases. Paz A, et al. **Br J Urol** 1997 May;79(5):722-5

Small cell neuroendocrine carcinoma of the urinary bladder. A clinicopathologic study with emphasis on cytologic features. Ali SZ, et al. **Cancer** 1997 Jan 15;79(2):356-61

Trends in urinary bladder cancer incidence in Sweden 1960-93 with special reference to histopathology, time period, birth cohort, and smoking. Thörn M, et al. **Cancer Causes Control** 1997 Jul;8(4):560-7

Micronuclei in exfoliated bladder cells among individuals chronically exposed to arsenic in drinking water. Moore LE, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jan; 6(1):31-6

Bladder cancer angiogenesis, its role in recurrence, stage progression and as a therapeutic target. Crew JP, et al. **Cancer Metastasis Rev** 1996 Jun;15(2):221-30 (84 ref.)

Two- and three-dimensional cell structures govern epidermal growth factor survival function in human

bladder carcinoma cell lines. Dangles V, et al. **Cancer Res** 1997 Aug 15;57(16):3360–4

Reversibility and apoptosis in rat urinary bladder papillomatosis induced by uracil. Otori K, et al. **Carcinogenesis** 1997 Aug;18(8):1485–9

Alpha 2 beta 1 integrin is required for the collagen and FGF–1 induced cell dispersion in a rat bladder carcinoma cell line. Vallés AM, et al. **Cell Adhes Commun** 1996 Sep; 4(3):187–99

Overexpression of transforming growth factor beta type I receptor abolishes malignant phenotype of a rat bladder carcinoma cell line. Okamoto M, et al. **Cell Growth Differ** 1997 Aug;8(8):921–6

Urachal carcinoma: a report of two cases. Lin CN, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Dec;56(6):436–9

Inverted papilloma of the urinary bladder. Wu TT, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan;57(1):59–63

Comparative scoring by visual and image analysis of cells in human solid tumors labeled for proliferation markers. Weaver JR, et al. **Cytometry** 1997 Feb 1;27(2):189–99

Cytologic features of clear cell carcinoma of the urethra and urinary bladder. Doria MI Jr, et al. **Diagn Cytopathol** 1996 Mar;14(2):150–4

E–cadherin cell–adhesion molecule expression as a diagnostic adjunct in urothelial cytology. Ross JS, et al. **Diagn Cytopathol** 1996 Jun;14(4):310–5

Cytology of small cell carcinoma of the urinary bladder. van Hoeven KH, et al. **Diagn Cytopathol** 1996 Jun;14(4):292–7

Nephrogenic adenoma in children. Case report and review of literature. Schumacher K, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):115–7 (24 ref.)

p53 expression compared with other prognostic factors in OMS grade–I stage–Ta transitional cell carcinoma of the bladder. Casetta G, et al. **Eur Urol** 1997;32(2):229–36

Evaluation of the argyrophilic nucleolar organizer region, nuclear DNA content and mean nuclear area in transitional cell carcinoma of bladder using a quantitative image analyzer. Shiina H, et al. **Eur Urol** 1996;29(1):99–105

In vitro modulation of implantation and intraepithelial expansion of bladder tumor cells by epidermal growth factor. Bindels EM, et al. **Exp Cell Res** 1997 Sep 15; 235(2):395–402

DNA–aneuploidy as marker for neoplasia in G1–urothelial carcinomas. Planz B, et al. **Gen Diagn Pathol** 1996 Oct; 142(2):69–73

A mapping of histology and cell proliferation in human bladder cancer: an immunohistochemical study. Igawa M, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):93–7

Expression of the apoptosis suppressing bcl–2 protein in transitional cell bladder tumours. Lipponen PK, et al. **Histopathology** 1996 Feb;28(2):135–40

Primary signet–ring cell carcinoma of the urinary bladder. Torenbeek R, et al. **Histopathology** 1996 Jan;28(1):33–40

Establishment and characterization of two human bladder cancer cell lines. Naito S, et al. **Hum Cell** 1996 Mar; 9(1):49–56

Recommendations for the reporting of urinary bladder specimens containing bladder neoplasms. Association of Directors of Anatomic and Surgical Pathology [see comments] **Hum Pathol** 1996 Aug;27(8):751–3. Comment in: Hum Pathol 1997 Mar;28(3):389.

Three–dimensional growth patterns of various human tumor cell lines in simulated microgravity of a NASA bioreactor. Ingram M, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun; 33(6):459–66

E–cadherin expression in upper–urinary–tract carcinoma. Nakanishi K, et al. **Int J Cancer** 1997 Aug 22;74(4):446–9

Tumorigenic conversion of a non–tumorigenic rat urothelial cell line by overexpression of H2O2–generating peroxisomal fatty acyl–CoA oxidase. Okamoto M, et al. **Int J Cancer** 1997 Mar 17;70(6):716–21

Effect of transfected interleukin–6 in non–tumorigenic and tumorigenic rat urothelial cell lines. Okamoto M, et al. **Int J Cancer** 1996 Nov 27;68(5):616–21

Metanestin, a glycoprotein with metastasis–associated expression in transitional cell carcinoma of the urinary bladder. Takemoto M, et al. **Int J Cancer** 1997 Feb 20; 74(1):7–14

Tumor recurrence associated with use of a percutaneous bladder catheter after surgery for large bowel carcinoma. Strigård K. **Int J Colorectal Dis** 1996;11(3):122

Significance of downstaging in muscle–invasive bladder cancer treated with preoperative radiotherapy. Pollack A, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):41–9

"Collision phenomenon" of prostate and bladder cancers in lymph node metastases. Gohji K, et al. **Int J Urol** 1997 Mar;4(2):222–4

PCNA and p53 in urinary bladder cancer: correlation with histological findings and prognosis. Inagaki T, et al. **Int J Urol** 1997 Mar;4(2):172–7

Alteration of intercellular communication in a human urothelial carcinoma cell–line by tumor–promoting agents. Morimoto S. **Int J Urol** 1996 May;3(3):212–7

Bulky transitional cell carcinoma of bladder with inverted proliferation. Terai A, et al. **Int J Urol** 1996 Jul;3(4):316–9

Correlation of allelic loss of the P53 gene and tumor grade, stage, and malignant progression in bladder cancer. Tsutsumi M, et al. **Int J Urol** 1997 Jan;4(1):74–8

Topical anaesthesia for bladder biopsies and cautery: intravesical lidocaine versus caudal anaesthesia. Amano T, et al. **Int Urol Nephrol** 1995;27(5):533–7

Benign polyps with prostatic–type epithelium of the urethra and the urinary bladder. Anjum MI, et al. **Int Urol Nephrol** 1997;29(3):313–7

Carcinosarcoma of the urinary bladder. Gedikoğlu G, et al. **Int Urol Nephrol** 1996;28(3):333–6

Inverted papilloma of the urinary bladder: a case evaluated for malignant potential. Urakami S, et al. **Int Urol Nephrol** 1997;29(2):181–7

Carcinoma erysipelatoides resulting from genitourinary cancer. Elston DM, et al. **J Am Acad Dermatol** 1996 Dec; 35(6):993–5

Quintuple cancers: report of a case with triple cancers in the head and neck. Martin–Granizo R, et al. **J Craniomaxillofac Surg** 1997 Jun;25(3):153–7 (34 ref.)

Primary adenocarcinoma, signet–ring, and transitional cell carcinoma of the bladder with penile metastasis. Allen RA, et al. **J Natl Med Assoc** 1997 Apr;89(4):253–6

Adenocarcinoma in a duplicated bladder. Brandes SB, et al. **J Surg Oncol** 1997 Aug;65(4):280–3

Opportunities with combined modality therapy for selective organ preservation in muscle–invasive bladder cancer. Colvett KT, et al. **J Surg Oncol** 1996 Nov;63(3):201–8 (67 ref.)

Tumors in bladder remnant after augmentation enterocystoplasty. Barrington JW, et al. **J Urol** 1997 Feb; 157(2):482–5; discussion 485–6

The importance of the depth of invasion in stage T1 bladder carcinoma: a prospective cohort study. Holmäng S, et al. **J Urol** 1997 Mar;157(3):800–3; discussion 804

Long–term followup of all patients with muscle invasive (stages T2, T3 and T4) bladder carcinoma in a geographical region [see comments] Holmäng S, et al. **J Urol** 1997 Aug; 158(2):389–92. Comment in: J Urol 1997 Aug;158(2):406–7.

Transitional cell carcinoma and right ventricular obstruction. Kemp W, et al. **J Urol** 1997 Oct;158(4):1522–3

Basic fibroblast growth factor regulates matrix metalloproteinases production and in vitro invasiveness in human bladder cancer cell lines. Miyake H, et al. **J Urol** 1997 Jun;157(6):2351–5

Interferons modify in vitro proliferation of human bladder transitional cell carcinoma in the presence of doxorubicin and mitomycin C. Okamoto E, et al. **J Urol** 1996 Oct; 156(4):1492–5

The significance of central pathology review in clinical studies of transitional cell carcinoma in situ [see comments] Sharkey FE, et al. **J Urol** 1997 Jan;157(1):68–70; discussion 70–1. Comment in: J Urol 1997 Jan;157(1):83–4.

Ureteral carcinoma in situ at radical cystectomy: does the margin matter? Silver DA, et al. **J Urol** 1997 Sep;158(3 Pt 1):768–71

Deoxyribonucleic acid ploidy enhances the cytological prediction of recurrent transitional cell carcinoma of the bladder. Slaton JW, et al. **J Urol** 1997 Sep;158(3 Pt 1):806–11

The use of urine cytology for diagnosing bladder cancer in spinal cord injured patients [see comments] Stonehill WH, et al. **J Urol** 1997 Jun;157(6):2112–4 (12 ref.). Comment in: J Urol 1997 Jun;157(6):2115.

Stromal and vascular invasion in an human in vitro bladder cancer model. Booth C, et al. **Lab Invest** 1997 Jun; 76(6):843–57

Structure of the initial lymphatics of the human urinary bladder with invasive urothelial tumors. Marchetti C, et al. **Lymphology** 1996 Sep;29(3):118–25

Re: Platz CE, Cohen MB, Jones MP, Olson DB, Lynch CF. Is microstaging of early invasive bladder cancer of the urinary bladder possible or useful? Mod Pathol 1996;9:1035–9 [letter] Angulo JC, et al. **Mod Pathol** 1997 Aug;10(8):854

The nested variant of transitional cell carcinoma: an aggressive neoplasm with innocuous histology. Drew PA, et al. **Mod Pathol** 1996 Oct;9(10):989–94

Recommendations for the reporting of urinary bladder specimens that contain bladder neoplasms. Murphy WM, et al. **Mod Pathol** 1996 Jul;9(7):796–8

Is microstaging of early invasive cancer of the urinary bladder possible or useful? Platz CE, et al. **Mod Pathol** 1996 Nov;9(11):1035–9

Morphogenesis of inclusion bodies of urothelial carcinoma: a case study. Yang GC, et al. **Mod Pathol** 1996 May; 9(5):566–70

Frequent loss of heterozygosity on chromosome 10q in muscle–invasive transitional cell carcinomas of the bladder. Cappellen D, et al. **Oncogene** 1997 Jun 26;14(25):3059–66

FGF–2 and FGF–1 expressed in rat bladder carcinoma cells have similar angiogenic potential but different tumorigenic properties in vivo. Jouanneau J, et al. **Oncogene** 1997 Feb 13;14(6):671–6

The human retinoblastoma gene product suppresses ceramide–induced apoptosis in human bladder tumor cells. McConkey DJ, et al. **Oncogene** 1996 Oct 17;13(8):1693–700

Studies of X–irradiated bladder cancer cell lines showing differences in p53 status: absence of a p53–dependent cell cycle checkpoint pathway. Ribeiro JC, et al. **Oncogene** 1996 Sep 19;13(6):1269–78

Recommendations for the reporting of urinary bladder specimens containing bladder neoplasms. Association of Directors of Anatomic and Surgical Pathology [see comments] **Pathol Int** 1997 May;47(5):329–31. Comment in: Pathol Int 1997 May;47(5):332.

Recommendations for the reporting of urinary bladder specimens containing bladder neoplasms. Association of Directors of Anatomic and Surgical Pathology. **Pathol Int** 1996 Nov;46(11):901–3

Comments regarding the American Association of Directors of Anatomic and Surgical Pathology (ADASP) recommendations for the reporting of urinary bladder specimens containing bladder neoplasms: comparison with the Japanese General Rule for Clinical and Pathological Studies on Bladder Cancer [letter; comment] Kishi K. **Pathol Int** 1997 May;47(5):332. Comment on: Pathol Int 1997 May;47(5):329–31.

Malignant fibrous histiocytoma of the renal capsule and synchronous transitional cell carcinoma of the bladder. Lopez JI, et al. **Pathol Res Pract** 1996 May;192(5):468–71; discussion 472–3

Pharmacodynamic evaluation of mitomycin C analog BMS–181174 for potential use in intravesical bladder cancer therapy. Yen WC, et al. **Pharm Res** 1997 Feb; 14(2):241–5

Implication of scatter/growth factors in tumor progression. Boyer B, et al. **Princess Takamatsu Symp** 1994;24:233–42 (16 ref.)

Wild–type p53 triggers a rapid senescence program in human tumor cells lacking functional p53. Sugrue MM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9648–53

Staging urinary bladder cancer after transurethral biopsy: value of fast dynamic contrast–enhanced MR imaging. Barentsz JO, et al. **Radiology** 1996 Oct;201(1):185–93

Transitional cell carcinoma express vitamin D receptors. Hermann GG, et al. **Scand J Urol Nephrol** 1997 Apr; 31(2):161–6

Neurofibromatosis of the bladder. Hintsa A, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):497–9

Primary signet ring cell carcinoma of the bladder: a report on 10 cases. Holmäng S, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):145–8

Papillary transitional cell tumour in the vagina. Jendresen MB, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):107–8

Bladder neck leiomyoma causing obstructive renal failure. Loh CS, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):495–6

Non–Hodgkin's lymphoma: a case report of a secondary bladder involvement. Racioppi M, et al. **Scand J Urol Nephrol** 1996 Oct;30(5):429–31

Multiple but different urothelial tumours in one side of a urinary tract. Shokeir AA, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):199–201

Bladder cancer complicated with priapism. A case report. Kvarstein B. **Scand J Urol Nephrol Suppl** 1996;179:155–6

Intraepithelial lesions of the urinary bladder with a discussion of the histogenesis of urothelial neoplasia. Amin MB, et al. **Semin Diagn Pathol** 1997 May;14(2):84–97 (57 ref.)

Carcinoma of the urinary bladder: a review of its diverse morphology. Eble JN, et al. **Semin Diagn Pathol** 1997 May; 14(2):98–108 (108 ref.)

Pathologic prognostic parameters in bladder urothelial biopsy, transurethral resection, and cystectomy specimens. Lapham RL, et al. **Semin Diagn Pathol** 1997 May; 14(2):109–22 (110 ref.)

Pathology and staging of bladder cancer. Bane BL, et al. **Semin Oncol** 1996 Oct;23(5):546–70 (107 ref.)

Pathology of transitional cell carcinoma of the bladder and its clinical implications. Lapham RL, et al. **Semin Surg Oncol** 1997 Sep–Oct;13(5):307–18 (95 ref.)

Pathology and its importance in evaluating outcome in patients with superficial bladder cancer. Huben RP, et al. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):23–9 (23 ref.)

Mesenchymal tumors of the mouse urinary bladder with vascular and smooth muscle differentiation. Butler WH, et al. **Toxicol Pathol** 1997 May–Jun;25(3):268–74

Cell–type–specific response to shock waves of suspended or pelleted cells as analysed by flow cytometry or electrical cell volume determination. Endl E, et al. **Ultrasound Med Biol** 1996;22(4):515–25

Appendix carcinoma invading the urinary bladder. Dahms SE, et al. **Urol Int** 1997;58(2):124–7 (24 ref.)

Paraganglioma of the urinary bladder. Nesi G, et al. **Urol Int** 1996;56(4):250–3

Comparison of ureteropelvic transitional cell carcinoma with bladder transitional cell carcinoma using an image analyzer. Shiina H, et al. **Urol Int** 1996;56(3):163–8

Introduction of wild–type p53 gene downregulates the expression of H–ras gene and suppresses the growth of bladder cancer cells. Li M, et al. **Urol Res** 1995; 23(5):311–314

Expression of MIB–1, mitotic index and S–phase fraction as indicators of cell proliferation in superficial bladder cancer. Finnbladder Group. Liukkonen TJ, et al. **Urol Res** 1996;24(1):61–6

Intestinal metaplasia is not a strong risk factor for bladder cancer: study of 53 cases with long–term follow–up. Corica FA, et al. **Urology** 1997 Sep;50(3):427–31 (29 ref.)

Perineural invasion in transitional cell carcinoma and the effect on prognosis following radical cystectomy. Nangia AK, et al. **Urology** 1997 Jun;49(6):968–72

Upper urinary tract involvement in patients with bladder carcinoma in situ (Tis): its impact on management. Solsona E, et al. **Urology** 1997 Mar;49(3):347–52

Juvenile rhabdomyosarcomas in two dogs. Kim DY, et al. **Vet Pathol** 1996 Jul;33(4):447–50

The significance of E–cadherin in transitional–cell carcinoma of the human urinary bladder. Fujisawa M, et al. **World J Urol** 1996;14 Suppl 1:S12–5

Molecular biology of dissemination in bladder cancer--laboratory findings and clinical significance.

Schmitz-Dräger BJ, et al. **World J Urol** 1996;14(3):190–6 (73 ref.)

Human urinary bladder-carcinoma cells are non-osteoinductive. Włodarski KH, et al. **World J Urol** 1996;14 Suppl 1:S16–20

[Anatomopathological aspects of 25 cases of bilharzial bladder cancer] Nouhou PH, et al. **Bull Soc Pathol Exot** 1996;89(3):181–4 (6 ref.) (Eng. Abstr.) **(Fre)**

[Evaluations of protein p53 overexpression in cancer of the bladder: prognostic value] Popov Z, et al. **Chirurgie** 1996; 121(6):461–9 (Eng. Abstr.) **(Fre)**

[Neuroendocrine tumor of the bladder apropos of a case. Review of the literature] Avances C, et al. **Prog Urol** 1997 Feb;7(1):85–7 (16 ref.) (Eng. Abstr.) **(Fre)**

[Malignant histiocytofibroma of the bladder. A case report] Barriol D, et al. **Prog Urol** 1997 Apr;7(2):270–2 (9 ref.) (Eng. Abstr.) **(Fre)**

[Prostatic urothelial location of a tumor of the bladder] Coulange C, et al. **Prog Urol** 1997 Feb;7(1):128–31 (14 ref.) (Eng. Abstr.) **(Fre)**

[Clinical value of the study of proliferation and cell activation antigens with flow cytometry in bladder cancer] Lacombe L, et al. **Prog Urol** 1996 Dec;6(6):907–12 (Eng. Abstr.) **(Fre)**

[Carcinomatous meningitis: rare complication of bladder cancer] Hasbini A, et al. **Rev Med Interne** 1997;18(5):402–6 (36 ref.) (Eng. Abstr.) **(Fre)**

[Chronic interstitial cystitis (Hunner) associated verrucous carcinoma of the urinary bladder] Hamm M, et al. **Urologe A** 1997 Jan;36(1):50–3 (Eng. Abstr.) **(Ger)**

[Metastatic linitis plastica of the bladder] Signori GB, et al. **Arch Ital Urol Androl** 1997 Feb;69(1):69–72 (18 ref.) (Eng. Abstr.) **(Ita)**

[Solitary splenic metastasis of bladder carcinoma. Report of a clinical case] Vittoria A, et al. **Minerva Chir** 1996 Oct; 51(10):855–9 (Eng. Abstr.) **(Ita)**

[Primary malignant lymphoma of the bladder: a case report] Oyama N, et al. **Hinyokika Kiyo** 1997 Feb;43(2):141–3 (Eng. Abstr.) **(Jpn)**

[Clinical investigation for recurrence and progression in Ta grades 1 and 2 bladder cancer] Takei K, et al. **Hinyokika Kiyo** 1997 Mar;43(3):185–9 (Eng. Abstr.) **(Jpn)**

[Immunohistochemical examination for p53 overexpression in Ta bladder cancer with disease progression] Tsukamoto T, et al. **Hinyokika Kiyo** 1996 May;42(5):347–9 (Eng. Abstr.) **(Jpn)**

[Prostatic involvement of bladder carcinoma] Ito T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jul;88(7):677–83 (Eng. Abstr.) **(Jpn)**

[A case of invasive bladder cancer with Pagetoid skin lesion of the vulva and anogenital Paget's disease] Koga F, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Apr;88(4):503–6 (Eng. Abstr.) **(Jpn)**

[Proliferating character of inverted papilloma of the urinary bladder] Tsujimura A, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jun;88(6):618–23 (Eng. Abstr.) **(Jpn)**

[The efficacy of neoadjuvant chemotherapy and morphological classification of invasive bladder cancer according to chemoresponse] Tsutsumi M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep;87(9):1105–13 (Eng. Abstr.) **(Jpn)**

[Prognostic significance of carcinoma in situ and epithelial dysplasia accompanying bladder cancers] Wajiki M. **Nippon Hinyokika Gakkai Zasshi** 1996 Dec;87(12):1269–76 (Eng. Abstr.) **(Jpn)**

[The diagnosis and treatment of bladder cancer metastases] Kariakin OB, et al. **Urol Nefrol (Mosk)** 1997 Mar-Apr; (2):22–5 (Eng. Abstr.) **(Rus)**

[Leiomyosarcoma of the urinary bladder. A little frequent neoformation] Gutiérrez Mínguez E, et al. **Actas Urol Esp** 1996 Jun;20(6):574–6 (Eng. Abstr.) **(Spa)**

[Lymphoproliferative pathology of the genitourinary tract. Report of 6 cases and review of the literature] Begara Morillas F, et al. **Arch Esp Urol** 1996 Jul-Aug;49(6):562–70 (Eng. Abstr.) **(Spa)**

[Small cell-sarcomatoid carcinoma of the urinary bladder] Domínguez Iglesias F, et al. **Arch Esp Urol** 1996 Jul-Aug; 49(6):631–5 (15 ref.) (Eng. Abstr.) **(Spa)**

[Transformation of glandular cystitis into bladder transitional carcinoma with adenocarcinoma areas] García Rojo D, et al. **Arch Esp Urol** 1997 Mar;50(2):187–9 (Eng. Abstr.) **(Spa)**

[Primary signet ring cell adenocarcinoma of the bladder. Report of 2 cases of bladder plastic linitis] González Mínguez C, et al. **Arch Esp Urol** 1996 Jun;49(5):517–20 (27 ref.) (Eng. Abstr.) **(Spa)**

[Transitional cell carcinoma of the bladder: behavior in young adults] Huguet Pérez J, et al. **Arch Esp Urol** 1996 Jul-Aug;49(6):607–12 (17 ref.) (Eng. Abstr.) **(Spa)**

[Identification of factors conditioning urinary cytology in bladder cancer] Páez Borda A, et al. **Arch Esp Urol** 1996 Sep;49(7):693–9 (Eng. Abstr.) **(Spa)**

[Lymphomas of the urinary tract] Rodríguez de Ledesma JM, et al. **Arch Esp Urol** 1996 Jul-Aug;49(6):587–94 (Eng. Abstr.) **(Spa)**

[Pseudosarcomatous lesions of the urinary bladder. Report of a case] Salvador Villalba I, et al. **Arch Esp Urol** 1997 Jan-Feb;50(1):77–8 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Urodynamic parameters in preoperative evaluation of patients with bladder tumours. Cetinkaya M, et al. **Int Urol Nephrol** 1996;28(2):195–200

Bladder cancer: natural history, tumor markers, and early detection strategies. Foresman WH, et al. **Semin Surg Oncol** 1997 Sep-Oct;13(5):299–306 (45 ref.)

Ultraweak biophoton emission imaging of transplanted bladder cancer. Amano T, et al. **Urol Res** 1995; 23(5):315–318

Natural history of superficial bladder tumors: 10- to 20-year follow-up of treated patients. Herr HW. **World J Urol** 1997; 15(2):84–8 (13 ref.)

PREVENTION & CONTROL

Single-dose versus multiple instillations of epirubicin as prophylaxis for recurrence after transurethral resection of pTa and pT1 transitional-cell bladder tumours: a prospective, randomized controlled study. Ali-el-Dein B, et al. **Br J Urol** 1997 May;79(5):731–5

Toxicity evaluation of difluoromethylornithine: doses for chemoprevention trials. Loprinzi CL, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):371–4

New strategy of bio-chemoprevention on recurrence of superficial bladder cancer based on a hypothesis of the mechanism of recurrence. Akaza H. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:253–6 (13 ref.)

Recurrence of primary superficial bladder cancer treated with prophylactic intravesical Tokyo 172 bacillus Calmette-Guérin: a long-term follow-up. Shinka T, et al. **Int J Urol** 1997 Mar;4(2):139–43

Intravesical epirubicin in the prophylaxis of superficial bladder cancer. Sengör F, et al. **Int Urol Nephrol** 1996; 28(2):201–6

G-actin as a risk factor and modulatable endpoint for cancer chemoprevention trials. Hemstreet GP 3rd, et al. **J Cell Biochem Suppl** 1996;25:197–204 (46 ref.)

Effects of diet on urinary bladder carcinogenesis and cancer prevention. Cohen SM, et al. **J Nutr** 1997 May;127(5 Suppl):826S–829S (21 ref.)

A 12 versus 6-week course of bacillus Calmette-Guerin prophylaxis for the treatment of high risk superficial bladder cancer. Gruenwald IE, et al. **J Urol** 1997 Feb; 157(2):487–91

End stage renal disease and prophylactic intracavitary interferon. Pascual J, et al. **J Urol** 1997 Sep;158(3 Pt 1):881

A combined analysis of European Organization for Research and Treatment of Cancer, and Medical Research Council randomized clinical trials for the prophylactic treatment of stage TaT1 bladder cancer. European Organization for Research and Treatment of Cancer Genitourinary Tract Cancer Cooperative Group and the Medical Research Council Working Party on Superficial Bladder Cancer. Pawinski A, et al. **J Urol** 1996 Dec;156(6):1934–40, discussion 1940–1

Chemopreventive efficacy of piroxicam administered alone or in combination with lycopene and beta-carotene on the development of rat urinary bladder carcinoma after N-butyl-N-(4-hydroxybutyl)nitrosamine treatment. Okajima E, et al. **Jpn J Cancer Res** 1997 Jun;88(6):543–52

Results at 43 months' follow-up of a double-blind, randomized, prospective clinical trial using intravesical interferon alpha-2b in the prophylaxis of stage pT1 transitional cell carcinoma of the bladder. Portillo J, et al. **Urology** 1997 Feb;49(2):187–90

Current concepts in the role of intravesical instillations in the therapy and prophylaxis of superficial transitional-cell cancer of the bladder. The Finnbladder Research Group. Alfthan O, et al. **World J Urol** 1997;15(2):89–95 (64 ref.)

[Mitomycin-C 30 mg for 12 months versus Mitomycin-C 40 mg for 6 months in the prevention of superficial bladder carcinoma G1-G2] Vecchioli Scaldazza C. **Minerva Urol Nefrol** 1996 Dec;48(4):203–6 (Eng. Abstr.) **(Ita)**

[The use of BCG for the prevention of recurrence of superficial bladder tumors: 10 year's experience] Sampalmieri G. **Riv Eur Sci Med Farmacol** 1996 Mar-Apr; 18(2):67–71 (Eng. Abstr.) **(Ita)**

[The efficacy of ATP sensitivity assay on intravesical prophylactic instillation for superficial bladder cancer] Inoue K, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Dec; 87(12):1281–8 (Eng. Abstr.) **(Jpn)**

[Prevention of superficial bladder cancer with mitomycin C or interferon: final results of a prospective study] Ojea Calvo A, et al. **Arch Esp Urol** 1996 Oct;49(8):807–12 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

The bladder and bladder tumors: imaging with three-dimensional display of helical CT data. Narumi Y, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1134–5

Imaging of small cell carcinoma of the male urogenital tract. Blunt DM, et al. **Clin Radiol** 1996 Oct;51(10):724–7

Pseudosarcomatous fibromyxoid tumor of the bladder: biphasic contrast-enhanced helical CT findings. Miki SC, et al. **J Comput Assist Tomogr** 1997 Mar-Apr;21(2):271–3

Is routine excretory urography necessary at first diagnosis of bladder cancer? Goessl C, et al. **J Urol** 1997 Feb; 157(2):480–1

Radiology quiz #7. Transitional cell carcinoma of bladder. Francis RA. **Mo Med** 1996 Sep;93(9):567–8

[Herald's lesion with a localization in the bladder. Apropos of a case] Benchekroun A, et al. **J Urol (Paris)** 1996; 102(4):157–60 (Eng. Abstr.) **(Fre)**

[Virtual cystoscopy based on spiral CT data] Merkle EM, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):582–5 (Eng. Abstr.) **(Ger)**

[Role of computerized tomography in bladder carcinoma treated with simultaneous combined radiotherapy and chemotherapy] Preziosi P, et al. **Radiol Med (Torino)** 1996 Nov;92(5):629–33 (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Preliminary assessment of fluorine-18 fluorodeoxyglucose positron emission tomography in patients with bladder cancer. Kosuda S, et al. **Eur J Nucl Med** 1997 Jun; 24(6):615–20

Incrustation and uptake of skeletal imaging agent in transitional cell carcinoma. Taniguchi M, et al. **J Nucl Med** 1997 Aug;38(8):1206–7

[Labeling of antihuman bladder carcinoma monoclonal antibody with a technetium-99m and radioimmunoimaging of human bladder carcinoma xenograft in nude mice] Samten B, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan; 34(1):10–2 (Eng. Abstr.) **(Chi)**

RADIOTHERAPY

Organ preservation approaches with radiation therapy in muscle-invasive bladder carcinoma. Liu MC, et al. **Ann Acad Med Singapore** 1996 May;25(3):441–7 (58 ref.)

Combined chemotherapy and radiation with selective organ preservation for muscle-invasive bladder carcinoma. A single-institution phase II study. Fellin G, et al. **Br J Urol** 1997 Jul;80(1):44–9

Radical chemoradiotherapy for elderly patients with bladder carcinoma invading muscle. Arias F, et al. **Cancer** 1997 Jul 1;80(1):115–20

Time for a change [comment] Hryniuk W. **Cancer J Sci Am** 1997 Jul-Aug;3(4):209–10. Comment on: Cancer J Sci Am 1997 Jul-Aug;3(4):213–23.

Predictive factors for outcome in invasive bladder cancer treated with alternating chemoradiotherapy [see comments] Sanguineti G, et al. **Cancer J Sci Am** 1997 Jul-Aug; 3(4):213–23. Comment in: Cancer J Sci Am 1997 Jul-Aug;3(4):209–10.

Preclinical evaluation of copper-67 labelled anti-MUC1 mucin antibody C595 for therapeutic use in bladder cancer. Hughes OD, et al. **Eur J Nucl Med** 1997 Apr;24(4):439–43

Pilot study of IORT for bladder carcinoma. Gérard JP, et al. **Front Radiat Ther Oncol** 1997;31:250–2

Report on radiotherapy for bladder cancer during surgery. Mao Y. **Front Radiat Ther Oncol** 1997;31:247–9

Hprt- mutation spectrum in a closely related pair of human bladder tumour cell lines after gamma-irradiation at different dose-rates. Edwards SM, et al. **Int J Radiat Biol** 1997 Feb;71(2):177–84

Relationship between radiation response and p53 status in human bladder cancer cells. Ribeiro JC, et al. **Int J Radiat Biol** 1997 Jul;72(1):11–20

A feasibility study of accelerated fractionation in radiotherapy of carcinoma of the urinary bladder. Moonen L, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1; 37(3):537–42

Significance of downstaging in muscle-invasive bladder cancer treated with preoperative radiotherapy. Pollack A, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):41–9

A feasibility study of high dose rate brachytherapy in solitary urinary bladder cancer. Soete G, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):743–7

Hyperfractionated radiotherapy of human tumors: overview of the randomized clinical trials. Stuschke M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):259–67

Combined chemotherapy and irradiation for transitional cell cancer of the bladder: a review. Beuzeboc P, et al. **J Infus Chemother** 1995 Fall;5(4):218–20 (22 ref.)

Concurrent cisplatin and radiotherapy for patients with muscle invasive bladder cancer who are not candidates for radical cystectomy. Chauvet B, et al. **J Urol** 1996 Oct; 156(4):1258–62

Treatment of advanced bladder cancer with combined preoperative irradiation and radical cystectomy versus radical cystectomy alone: a phase III intergroup study. Smith JA Jr, et al. **J Urol** 1997 Mar;157(3):805–7; discussion 807–8

The radiation dose to the urinary bladder in radio-iodine therapy. Bolster AA, et al. **Phys Med Biol** 1996 Oct; 41(10):1993–2008

Hypofractionated radiotherapy for muscle invasive bladder cancer in the elderly. McLaren DB, et al. **Radiother Oncol** 1997 May;43(2):171–4

Combined surgery and brachytherapy in the treatment of some cancers of the bladder (partial cystectomy and interstitial iridium-192). Pernot M, et al. **Radiother Oncol** 1996 Feb;38(2):115–20

Hypofractionated radiotherapy for invasive bladder cancer. Scholten AN, et al. **Radiother Oncol** 1997 May;43(2):163–9

Treatment outcome following radiotherapy in elderly patients with bladder cancer. Sengeløv L, et al. **Radiother Oncol** 1997 Jul;44(1):53–8

Morbidity after preoperative radiotherapy and cystectomy in patients with bladder cancer. Tomic R, et al.

Scand J Urol Nephrol 1997 Apr;31(2):149–53

Simultaneous paclitaxel and radiotherapy: initial clinical experience in lung cancer and other malignancies. Vogt HG, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-101–S12-105 (15 ref.)

Survival analyses of randomized clinical trials adjusted for patients who switch treatments. Law MG, et al. **Stat Med** 1996 Oct 15;15(19):2069–76

The combined effects of high-energy shock waves and ionising radiation on a human bladder cancer cell line. Fickweiler S, et al. **Ultrasound Med Biol** 1996; 22(8):1097–102

New approaches in the use of radiation therapy in the treatment of infiltrative transitional-cell cancer of the bladder. Warde P, et al. **World J Urol** 1997;15(2):125–33 (61 ref.)

[Concomitant radiochemotherapy in invasive bladder tumors] Mottet N, et al. **Bull Cancer** 1997 Apr;84(4):405–11 (28 ref.) (Eng. Abstr.) **(Fre)**

[Peroperative radiotherapy in the conservative treatment of infiltrating bladder cancers] Hulewicz G, et al. **Prog Urol** 1997 Apr;7(2):229–34 (Eng. Abstr.) **(Fre)**

[Preoperative radiochemotherapy in bladder carcinomas] Dunst J. **Strahlenther Onkol** 1997 Apr;173(4):242–3 **(Ger)**

[Local control and distant metastasis after cystectomy in bladder carcinoma] Dunst J. **Strahlenther Onkol** 1996 Nov; 172(11):634 **(Ger)**

[Long-term results of short-course preoperative radiotherapy and radical cystectomy for bladder cancer] Hirabayashi N. **Nippon Hinyokika Gakkai Zasshi** 1997 May; 88(5):528–34 (Eng. Abstr.) **(Jpn)**

[Leiomyosarcoma of the bladder 8 years after radiation therapy for bladder cancer] Arutiunian NO, et al. **Urol Nefrol (Mosk)** 1996 May–Jun;(3):45–6 **(Rus)**

SECONDARY

Metastatic signet-ring cell adenocarcinoma to the urinary bladder. Saba NF, et al. **Acta Oncol** 1997;36(2):219–20

Role of transabdominal pelvic ultrasound and computed tomography in the detection of bladder involvement in advanced cancer of the cervix. Deo SV, et al. **Australas Radiol** 1996 Aug;40(3):218–20

Clear cell adenocarcinoma affecting the bladder, kidney and ureter--an unusual distribution. Ceccherini AF, et al. **Br J Urol** 1997 Apr;79(4):652–3

Bladder metastasis from renal cell carcinoma. Chinegwundoh FI, et al. **Br J Urol** 1997 Apr;79(4):650–1

Late, isolated, secondary ovarian transitional cell carcinoma: an unusual course of bladder malignancy. Groutz A, et al. **Br J Urol** 1996 Nov;78(5):795–6

Hematuria: a presentation of carcinoma of the stomach. Nijhawan S, et al. **Indian J Gastroenterol** 1996 Jul;15(3):102

Renal vein thrombosis and metastasis to the bladder: an unusual presentation of malignant melanoma. Ergen A, et al. **Int Urol Nephrol** 1995;27(5):547–9

Bladder involvement in patients with colorectal carcinoma. Nyam DC, et al. **Singapore Med J** 1995 Oct;36(5):525–6

New approaches in the treatment of metastatic transitional-cell cancer of the bladder. Corral DA, et al. **World J Urol** 1997;15(2):139–43 (28 ref.)

[Rare tumor spread variant in carcinoma of the kidney pelvis. Urographic and computerized tomography diagnosis] Pecher S, et al. **Rontgenpraxis** 1997 Jul;50(7):199–201 **(Ger)**

[Bladder tumor, metastasis from breast carcinoma. A case report with literature review] Lund JA, et al. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1082–3 (13 ref.) (Eng. Abstr.) **(Nor)**

[The Miles-Thompson-Bricker method of total pelvic exenteration in malignant tumors of the rectum with urinary bladder infiltration] Ignjatović D, et al. **Vojnosanit Pregl** 1996 Nov–Dec;53(6):471–5 (Eng. Abstr.) **(Scr)**

[Bladder metastasis of lung adenocarcinoma] Martín-Marquina Aspiunza A, et al. **Actas Urol Esp** 1997 Apr;21(4):406–8 (6 ref.) (Eng. Abstr.) **(Spa)**

SECRETION

Human monocytes induce a carcinoma cell line to secrete high amounts of nitric oxide. Konur A, et al. **J Immunol** 1996 Sep 1;157(5):2109–15

SURGERY

Orthotopic ileal neobladder: our experience. Cortellini P, et al. **Acta Biomed Ateneo Parmense** 1995;66(6):239–42

Adenocarcinoma of the urachus: 3 case reports and a review of the literature. Mattelaer P, et al. **Acta Urol Belg** 1997 Mar;65(1):63–7 (18 ref.)

Surgery for the urinary tract cancer. Lukkarinen O. **Ann Chir Gynaecol** 1996;85(3):202–6 (47 ref.)

Comparison between results of ileal conduit and continent ileal bladder (VIP), after radical cystectomy. Bassi E, et al. **Arch Esp Urol** 1996 Nov;49(9):1003–6

The ileocaeco-urethrostomy with multiple transverse taeniamyotomies for bladder replacement: an alternative to detubularized neobladders. Morphological, functional and metabolic results after 9 years' experience. Alcini E, et al. **Br J Urol** 1997 Mar;79(3):333–8

Preliminary ligation of vascular pedicles in male radical cystectomy. Fukui I, et al. **Br J Urol** 1997 Apr;79(4):641–2

Multiple frequent recurrences in superficial transitional cell carcinoma of the bladder: is survival compromised by a conservative management strategy? Hrouda D, et al. **Br J Urol** 1997 May;79(5):726–30

Impact of the prostatic apex on continence and urinary flow in patients with intestinal neobladders. Koraitim MM, et al. **Br J Urol** 1996 Oct;78(4):534–6

Long-term outcome of permanent urethral stents in the treatment of detrusor-sphincter dyssynergia. McFarlane IP, et al. **Br J Urol** 1996 Nov;78(5):729–32

Which patients will benefit from psychosocial intervention after cystectomy for bladder cancer? Månsson A, et al. **Br J Urol** 1997 Jul;80(1):50–7

Intra-operative autotransfusion in radical cystectomy. Park KI, et al. **Br J Urol** 1997 May;79(5):717–21

Bone metabolism following bladder substitution with the ileal urethral Kock reservoir. Poulsen AL, et al. **Br J Urol** 1997 Mar;79(3):339–47

The effects of detubularization and outflow competence in substitution cystoplasty. Thomas PJ, et al. **Br J Urol** 1996 Nov;78(5):681–5

Bladder replacement by ileocystoplasty after cystectomy for cancer: comparison of two techniques [letter; comment] Wright M, et al. **Br J Urol** 1997 Jan;79(1):148–9. Comment on: Br J Urol 1996 Jul;78(1):74–9.

Surgery in patients with coronary artery disease--silent ischaemia during transurethral resection of tumors of prostate or bladder. Wacker P, et al. **Clin Cardiol** 1997 Feb;20(2):125–9

Caecocystoplasty and bilateral oophorectomy followed by chemotherapy for diffuse, non-Hodgkins lymphoma of the ovary involving the bladder. Case report. Papadopoulos AJ, et al. **Eur J Gynaecol Oncol** 1997;18(2):101–3

Adenocarcinoma of bladder. Dandekar NP, et al. **Eur J Surg Oncol** 1997 Apr;23(2):157–60

Incidental prostatic adenocarcinoma in patients undergoing radical cystoprostatectomy for bladder cancer. Abbas F, et al. **Eur Urol** 1996;30(3):322–6

Damage to the erectile function following radical pelvic surgery: prevalence of veno-occlusive dysfunction. De Luca V, et al. **Eur Urol** 1996;29(1):36–40

Female urethra-sparing cystectomy and orthotopic bladder replacement. Jarolím L, et al. **Eur Urol** 1997;31(2):173–7

Clinical experience of orthotopic urinary reservoirs in male patients with bladder cancer. Okada Y, et al. **Hinyokika Kiyo** 1997 Mar;43(3):191–6

Mainz pouch with appendix-umbilical stoma using catheterizable conduit elongated with continuous cecal segment: a case report. Okada Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):973–5

Topical anaesthesia for bladder biopsies and cautery: intravesical lidocaine versus caudal anaesthesia. Amano T, et al. **Int Urol Nephrol** 1995;27(5):533–7

Continent urinary diversion after radical cystectomy: 3 years' experience. Samodai L, et al. **Int Urol Nephrol** 1996; 28(4):511–6

Preservation of the bladder in patients with rhabdomyosarcoma. Heyn R, et al. **J Clin Oncol** 1997 Jan; 15(1):69–75

Radical cystectomy: posterior dissection following prior therapy. Corral DA, et al. **J Surg Oncol** 1997 Feb; 64(2):165–6

Tumors in bladder remnant after augmentation enterocystoplasty. Barrington JW, et al. **J Urol** 1997 Feb; 157(2):482–5; discussion 485–6

Risk of urethral, vaginal and cervical involvement in patients undergoing radical cystectomy for bladder cancer: results of a contemporary cystectomy series from M. D. Anderson Cancer Center. Chen ME, et al. **J Urol** 1997 Jun; 157(6):2120–3 (13 ref.)

Ureteral anastomosis in the orthotopic ileal neobladder: comparison of 2 techniques [see comments] De Carli P, et al. **J Urol** 1997 Feb;157(2):469–71. Comment in: J Urol 1997 Feb;157(2):475.

Reconstructive options in genitourinary rhabdomyosarcoma. Duel BP, et al. **J Urol** 1996 Nov;156(5):1798–804

Radical cystectomy for carcinoma of the bladder: critical evaluation of the results in 1,026 cases. Ghoneim MA, et al. **J Urol** 1997 Aug;158(2):393–9

A new technique for transurethral resection of bladder tumors: rotational tumor resection using a new arched electrode. Kawada T, et al. **J Urol** 1997 Jun;157(6):2225–6

Adjuvant chemotherapy for superficial transitional cell bladder carcinoma: long-term results of a European Organization for Research and Treatment of Cancer randomized trial comparing doxorubicin, ethoglucid and transurethral resection alone. Kurth K, et al. **J Urol** 1997 Aug;158(2):378–84

The Hautmann neobladder with a chimney: a versatile modification. Lippert MC, et al. **J Urol** 1997 Oct; 158(4):1510–2

Double folded rectosigmoid bladder with a new ureterocolic antireflux technique. el Mekresh MM, et al. **J Urol** 1997 Jun;157(6):2085–9

Perineal cystoprostatectomy and ureterosigmoidostomy for invasive bladder cancer. Nishiya M, et al. **J Urol** 1997 Jun; 157(6):2227–9

Transurethral bladder tumor resection alters fibronectin expression in transitional carcinoma cell lines. See WA, et al. **J Urol** 1997 Mar;157(3):1136–43

Re: Detubularized isolated ureterosigmoidostomy: description of a new technique and preliminary results [letter; comment] Shafik A. **J Urol** 1997 Jun;157(6):2265–6 . Comment on: J Urol 1996 Sep;156(3):915–9.

Ureteral carcinoma in situ at radical cystectomy: does the margin matter? Silver DA, et al. **J Urol** 1997 Sep;158(3 Pt 1):768–71

Treatment of advanced bladder cancer with combined preoperative irradiation and radical cystectomy versus radical cystectomy alone: a phase III intergroup study. Smith JA Jr, et al. **J Urol** 1997 Mar;157(3):805–7; discussion 807–8

Orthotopic lower urinary tract reconstruction in women using the Kock ileal neobladder: updated experience in 34 patients [see comments] Stein JP, et al. **J Urol** 1997 Aug; 158(2):400–5. Comment in: J Urol 1997 Aug;158(2):406–7.

Radical cystectomy using endoscopic stapling devices: preliminary experience with a simple and reliable technique. Yamashita T, et al. **J Urol** 1997 Jan;157(1):263–5

Nerve-sparing radical cystoprostatectomy: 3-year experience. Chiang PH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Mar; 13(3):169–74

Neobladder surgery also available for women [letter; comment] Miano TM. **Oncol Nurs Forum** 1996 Jul;23(6):881 . Comment on: Oncol Nurs Forum 1996 Apr;23(3):459–68.

Combined surgery and brachytherapy in the treatment of some cancers of the bladder (partial cystectomy and interstitial iridium-192). Pernot M, et al. **Radiother Oncol** 1996 Feb;38(2):115–20

Infiltrating transitional cell carcinoma of the bladder--treatment results. Heyns CF, et al. **S Afr J Surg** 1996 May;34(2):82–6, 91–3; discussion 93–4

Invasive, high grade transitional cell carcinoma of the bladder treated with transurethral resection. A survival analysis focusing on TUR as monotherapy. Roosen JU, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):39–42

Surgical therapy for locally advanced bladder cancer. Bales GT, et al. **Semin Oncol** 1996 Oct;23(5):605–13 (56 ref.)

Treatment strategies using transurethral surgery, chemotherapy, and radiation therapy with selection that safely allows bladder conservation for invasive bladder cancer. Kanady KE, et al. **Semin Surg Oncol** 1997 Sep–Oct; 13(5):359–64 (36 ref.)

Surgical management of superficial bladder cancer (stages Ta/T1/CIS). Smith JA Jr. **Semin Surg Oncol** 1997 Sep–Oct;13(5):328–34 (27 ref.)

Cystectomy and urinary diversion. Turner WH, et al. **Semin Surg Oncol** 1997 Sep–Oct;13(5):350–8 (32 ref.)

Survival analyses of randomized clinical trials adjusted for patients who switch treatments. Law MG, et al. **Stat Med** 1996 Oct 15;15(19):2069–76

Neoadjuvant CMV chemotherapy plus radical cystectomy in locally advanced bladder cancer: the impact of pathological response on long-term results. Scattoni V, et al. **Tumori** 1996 Sep–Oct;82(5):463–9

Orthotopic bladder substitution in women following cystectomy for bladder cancer. Ghoneim MA. **Urol Clin North Am** 1997 Feb;24(1):225–39

Results of radical cystectomy and pelvic lymphadenectomy for bladder cancer with pelvic node metastases. Bretheau D, et al. **Urol Int** 1996;57(1):27–31

Perineural invasion in transitional cell carcinoma and the effect on prognosis following radical cystectomy. Nangia AK, et al. **Urology** 1997 Jun;49(6):968–72

Radical cystectomy with or without adjuvant polychemotherapy for non-organ-confined transitional cell carcinoma of the urinary bladder: prognostic impact of lymph node involvement. Stöckle M, et al. **Urology** 1996 Dec;48(6):868–75

Update of urethra-sparing approaches in cystectomy in women. Stenzl A, et al. **World J Urol** 1997;15(2):134–8 (16 ref.)

[A rare variety of urothelial carcinoma. Apropos of 2 cases] Chefchaouni MC, et al. **J Urol (Paris)** 1996;102(4):185–7 (6 ref.) (Eng. Abstr.) **(Fre)**

[Peroperative radiotherapy in the conservative treatment of infiltrating bladder cancers] Hulewicz G, et al. **Prog Urol** 1997 Apr;7(2):229–34 (Eng. Abstr.) **(Fre)**

[Infiltrating bladder tumor in a renal transplant patient: cystectomy with prostatic conservation and enterocystoplasty] Koutani A, et al. **Prog Urol** 1997 Apr; 7(2):277–80 (Eng. Abstr.) **(Fre)**

[Urethral recurrence after cysto-prostatectomy for bladder tumor] Robert M, et al. **Prog Urol** 1996 Aug–Sep; 6(4):558–63 (Eng. Abstr.) **(Fre)**

[Adjuvant chemotherapy after cystectomy for bladder tumors staged as superior or equal to pT3] Schmid HP, et al. **Prog Urol** 1997 Feb;7(1):102–4 (9 ref.) **(Fre)**

[Fatal Yersinia infection after intraoperative transfusion] Schwalbe B, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Dec; 31(10):658–60 (Eng. Abstr.) **(Ger)**

[A rare case of metastasis of urinary bladder carcinoma in the pisiform bone. A case report] Bauer P, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):154–7 (Eng. Abstr.) **(Ger)**

[Local control and distant metastasis after cystectomy in bladder carcinoma] Dunst J. **Strahlenther Onkol** 1996 Nov; 172(11):634 **(Ger)**

[Urinary diversion 1996] Hautmann R. **Urologe A** 1996 Jul; 35(4):279–83 (11 ref.) **(Ger)**

[Are their individual decisions for urinary diversion? Indications and results of 200 consecutive patients] Krege

S, et al. **Urologe A** 1996 Jul;35(4):291–6 (Eng. Abstr.) **(Ger)**

[Comparison of orthotopic neobladders: Studer vs modified Camey II] Corrada P, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):289–91 (Eng. Abstr.) **(Ita)**

[Orthotopic urinary diversions: the Paduan ileal neobladder. Experience at the Urologic Division of Magenta] De Giovanni M, et al. **Arch Ital Urol Androl** 1996 Dec; 68(5):299–301 (Eng. Abstr.) **(Ita)**

[100 orthotopic neobladders in men after cystectomy: a 5-year experience] Mandressi A, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):323–31 (Eng. Abstr.) **(Ita)**

[Orthotopic ileal neobladder: urodynamic and metabolic aspects. Our experience] Mangiarotti B, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):333–5 (Eng. Abstr.) **(Ita)**

[Ileal neobladder in women: Milano's technique] Pisani E, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):341–2 (Eng. Abstr.) **(Ita)**

[Stents in the treatment of stenosis of the entero-urethral junction in continent diversion: case reports] Pizzocaro M, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):319–22 (Eng. Abstr.) **(Ita)**

[Orthotopic ileal neobladders in men and women: techniques and comparison] Rocco F, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):293–8 (Eng. Abstr.) **(Ita)**

[Orthotopic ileal neobladder of the Emikock type: technical points and functional results] Tombolini P, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):337–40 (Eng. Abstr.) **(Ita)**

[Orthotopic neobladder in women] Reggiani A, et al. **Chir Ital** 1996;48(5):21–6 (Eng. Abstr.) **(Ita)**

[Clinical outcome of bladder preserving therapy for superficial high-grade bladder cancer] Chiba K, et al. **Hinyokika Kiyo** 1997 May;43(5):329–32 (Eng. Abstr.) **(Jpn)**

[Clinical analysis of bladder cancer patients treated by radical cystectomy] Kageyama S, et al. **Hinyokika Kiyo** 1997 Jan; 43(1):1–6 (Eng. Abstr.) **(Jpn)**

[Neuroendocrine cell carcinoma of the urinary bladder: a case report] Mikami K, et al. **Hinyokika Kiyo** 1996 Jul; 42(7):529–31 (Eng. Abstr.) **(Jpn)**

[A case of CEA and CA19-9 producing recurrent transitional cell carcinoma in an Indiana pouch after total cystectomy] Miyoshi Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):961–4 (Eng. Abstr.) **(Jpn)**

[Expended radical surgery of sigmoid cancer with spreading to the bladder] Dovlatian AA, et al. **Khirurgiia (Mosk)** 1997;(6):67–9 **(Rus)**

[Leiomyosarcoma of the bladder 8 years after radiation therapy for bladder cancer] Arutiunian NO, et al. **Urol Nefrol (Mosk)** 1996 May-Jun;(3):45–6 **(Rus)**

[The surgical results in malignant bladder tumors using the Scalpel-1 carbon-dioxide laser] Dmitriev BV, et al. **Urol Nefrol (Mosk)** 1997 Jan-Feb;(1):25–8 (Eng. Abstr.) **(Rus)**

[Variants in the transpubic approach in bladder cancer] Kudriavtsev LA, et al. **Urol Nefrol (Mosk)** 1996 Jul-Aug; (4):32–4 (Eng. Abstr.) **(Rus)**

[The results of the surgical treatment of bladder cancer patients] Matveev BP, et al. **Urol Nefrol (Mosk)** 1997 Mar-Apr;(2):25–8 (Eng. Abstr.) **(Rus)**

[The holmium laser in the treatment of bladder cancer patients] Mazo EB, et al. **Urol Nefrol (Mosk)** 1996 Jul-Aug; (4):34–5 (Eng. Abstr.) **(Rus)**

[The surgical treatment of patients with bladder cancer in middle and old age] Tkachuk VN, et al. **Urol Nefrol (Mosk)** 1997 Jan-Feb;(1):23–5 (Eng. Abstr.) **(Rus)**

[Survival in stage T2-T3A bladder cancer treated with radical cystectomy] Angulo Cuesta J, et al. **Arch Esp Urol** 1997 Jan-Feb;50(1):17–23; discussion 24–5 (Eng. Abstr.) **(Spa)**

[Is there a role for partial cystectomy in the treatment of infiltrating bladder cancer? (2nd part)] Escudero Barrilero A, et al. **Arch Esp Urol** 1996 Jun;49(5):453–64 (33 ref.) (Eng. Abstr.) **(Spa)**

[Analysis of 34 cases of infiltrating carcinoma of the bladder treated exclusively with partial cystectomy (part 1)] Escudero Barrilero A, et al. **Arch Esp Urol** 1996 May; 49(4):349–64 (28 ref.) (Eng. Abstr.) **(Spa)**

[It is possible to cure early discovered bladder cancer] Holmäng S, et al. **Lakartidningen** 1996 Oct 2;93(40):3466–8, 3470 (23 ref.) **(Swe)**

[Outpatient treatment of bladder cancer--lower cost and satisfied patients] Hedelin H, et al. **Nord Med** 1997 Feb; 112(2):48–51 (Eng. Abstr.) **(Swe)**

THERAPY

Mycobacterial sepsis following intravesical instillation of bacillus Calmette-Guérin. Garyfallou GT. **Acad Emerg Med** 1996 Feb;3(2):157–60 (12 ref.)

Organ-sparing treatment of bladder cancer: an innovative approach. Kaufman DS, et al. **Am Fam Physician** 1997 Mar; 55(4):1257–62 (18 ref.)

Is the success of BCG tumour immunotherapy due to the induction of co-stimulatory molecules? Alexandroff AB, et al. **Biochem Soc Trans** 1997 May;25(2):201S

Are gamma delta T lymphocytes involved in intravesical bacillus Calmette-Guerin immunotherapy of bladder cancer? Alexandroff AB, et al. **Biochem Soc Trans** 1997 May;25(2):363S

Selective migration of the human helper/inducer T-cell subset (CD4+) in BCG-induced arthritis. Farahat MN. **Biochem Soc Trans** 1997 May;25(2):371S

Carbogen and nicotinamide in the treatment of bladder cancer with radical radiotherapy. Hoskin PJ, et al. **Br J Cancer** 1997;76(2):260–3

Prophylactic intracavitary treatment with interferon alpha increases interferon gamma production by peripheral blood mononuclear cells in patients with superficial transitional cell carcinoma of the bladder. Moltó L, et al. **Br J Cancer** 1997;75(12):1849–53

Management of invasive bladder cancer. Parker CC, et al. **Br J Hosp Med** 1996 Sep 4–17;56(5):213–8 (22 ref.)

The management of superficial bladder cancer: an interactive seminar [see comments] McFarlane JP, et al. **Br J Urol** 1996 Sep;78(3):372–8 (36 ref.). Comment in: Br J Urol 1997 May;79(5):818.

Quality of life in patients undergoing bacille Calmette-Guérin therapy for superficial bladder cancer. Mack D, et al. **Br J Urol** 1996 Sep;78(3):369–71

Evaluation of local immune response after intravesical bacille Calmette-Guérin treatment for superficial bladder cancer. Patard JJ, et al. **Br J Urol** 1996 Nov;78(5):709–14

A feasibility study for the non-invasive treatment of superficial bladder tumours with focused ultrasound. Watkin NA, et al. **Br J Urol** 1996 Nov;78(5):715–21

The National Cancer Data Base report on bladder carcinoma. The American College of Surgeons Commission on Cancer and the American Cancer Society. Fleshner NE, et al. **Cancer** 1996 Oct 1;78(7):1505–13

Allium sativum (garlic) treatment for murine transitional cell carcinoma. Riggs DR, et al. **Cancer** 1997 May 15; 79(10):1987–94

Renal, bladder, and prostate cancers: gene therapy. Carducci MA, et al. **Cancer Treat Res** 1996;88:219–34 (66 ref.)

Current therapy for invasive bladder cancer. Montie JE. **Cancer Treat Res** 1996;88:121–8 (34 ref.)

Long-term results of intravesical N-CWS therapy for preventing bladder cancer recurrence after operation. Chen S, et al. **Chin Med J (Engl)** 1996 Nov;109(11):890–1

Humoral response against heat shock proteins and other mycobacterial antigens after intravesical treatment with bacille Calmette-Guérin (BCG) in patients with superficial bladder cancer. Zlotta AR, et al. **Clin Exp Immunol** 1997 Jul;109(1):157–65

A pityriasis rosea-like eruption secondary to bacillus Calmette-Guérin therapy for bladder cancer. Honl BA, et al. **Cutis** 1996 Jun;57(6):447–50

Current recommendations for the management of bladder cancer. Drug therapy. Witjes JA. **Drugs** 1997 Mar; 53(3):404–14 (67 ref.)

Application of clinical trials to the care of patients with bladder cancer. Hall RR. **Eur Urol** 1997;31 Suppl 1:42–6 (29 ref.)

Ultrastructural study of the noninvolved urothelium of tumor-bearing patients after two years of intravesical interferon therapy. Stravoravdi P, et al. **Eur Urol** 1996; 29(4):477–82

Locoregional IL-2 immunotherapy of bladder cancer. Santoni A, et al. **Immunopharmacol Immunotoxicol** 1997 Feb;19(1):1–13 (31 ref.)

Effects of bacillus Calmette-Guerin and interferon-alpha-2B on human bladder cancer in vitro. Zhang Y, et al. **Int J Cancer** 1997 May 29;71(5):851–7

Immunohistochemical evaluation of p53 and retinoblastoma proteins in relation to hyperthermia treatment: results in human urothelial carcinomas. Okamura T, et al. **Int J Hyperthermia** 1996 Nov-Dec;12(6):813–24

Immunohistochemical study of tumor-infiltrating lymphocytes before and after intravesical bacillus Calmette-Guérin treatment for superficial bladder cancer. Honda S, et al. **Int J Urol** 1997 Jan;4(1):68–73

Intravesical therapy of bladder cancer: an immunotherapy success story. Morales A. **Int J Urol** 1996 Sep;3(5):329–33 (30 ref.)

Preliminary results of concurrent methotrexate, cisplatin and radiation treatment for locally advanced urothelial cancers. Igawa M, et al. **Int Urol Nephrol** 1996;28(2):189–94

Transurethral resection and intra-arterial chemotherapy for muscle-invasive bladder cancer. Kondás J, et al. **Int Urol Nephrol** 1996;28(2):181–7

BCG versus epirubicin in the prophylaxis of multiple superficial bladder tumours: results of a prospective randomized study using modified treatment schemes. Melekos MD, et al. **Int Urol Nephrol** 1996;28(4):499–509

Improved local control of invasive bladder cancer by concurrent cisplatin and preoperative or definitive radiation. The National Cancer Institute of Canada Clinical Trials Group. Coppin CM, et al. **J Clin Oncol** 1996 Nov; 14(11):2901–7

Bladder preservation by combined modality therapy for invasive bladder cancer. Kachnic LA, et al. **J Clin Oncol** 1997 Mar;15(3):1022–9

Overexpression of p53 protein in a high-risk population of patients with superficial bladder cancer before and after bacillus Calmette-Guérin therapy: correlation to clinical outcome. Lacombe L, et al. **J Clin Oncol** 1996 Oct; 14(10):2646–52

Retrograde ureteral intussusception: a rare complication. Bernhard PH, et al. **J Endourol** 1996 Aug;10(4):349–51

Opportunities with combined modality therapy for selective organ preservation in muscle-invasive bladder cancer. Colvett KT, et al. **J Surg Oncol** 1996 Nov;63(3):201–8 (67 ref.)

The treated natural history of high risk superficial bladder cancer: 15-year outcome. Cookson MS, et al. **J Urol** 1997 Jul;158(1):62–7 (27 ref.)

Upper tract tumors in patients with primary bladder cancer followed for 15 years. Herr HW, et al. **J Urol** 1996 Oct; 156(4):1286–7

Palliative effect of intravesical bacillus Calmette-Guerin in elderly patients with advanced bladder carcinoma. Holmäng S, et al. **J Urol** 1997 Sep;158(3 Pt 1):812–3

Low dose Pasteur bacillus Calmette-Guerin regimen in stage T1, grade 3 bladder cancer therapy [see comments] Hurle R, et al. **J Urol** 1996 Nov;156(5):1602–5. Comment in: J Urol 1996 Nov;156(5):1609–10.

Genetically regulated response to intravesical bacillus Calmette Guerin immunotherapy of orthotopic murine bladder tumor. Kadhim SA, et al. **J Urol** 1997 Aug; 158(2):646–52

Re: Assessment of conservative management for stage T10N0M0 transitional cell carcinoma of the bladder [letter; comment] Lamm DL. **J Urol** 1997 Mar;157(3):963–4. Comment on: J Urol 1996 Jun;155(6):1907–9.

A worldwide view of bladder cancer [editorial; comment] Schellhammer PF. **J Urol** 1997 Aug;158(2):406–7. Comment on: J Urol 1997 Aug;158(2):389–92. Comment on: J Urol 1997 Aug;158(2):400–5.

Granulomatous mass in a nonrefluxing renal unit after bacillus Calmette-Guerin therapy for bladder cancer. Siskron FT 4th, et al. **J Urol** 1997 Sep;158(3 Pt 1):882–3

Transrectal ultrasound appearance of prostatic granulomas secondary to bacillus Calmette-Guerin instillation. Terris MK, et al. **J Urol** 1997 Jul;158(1):126–7

Does isoniazid reduce side effects of intravesical bacillus Calmette-Guerin therapy in superficial bladder cancer? Interim results of European Organization for Research and Treatment of Cancer Protocol 30911. Vegt PD, et al. **J Urol** 1997 Apr;157(4):1246–9

Organ-preserving management of rhabdomyosarcoma of the prostate and bladder in children. Silván AM, et al. **Med Pediatr Oncol** 1997 Dec;29(6):573–5

Chronic ambulatory peritoneal dialysis in a patient with end-stage renal disease following radiotherapy and surgery for transitional cell carcinoma [letter; comment] Mcligeyo SO, et al. **Nephron** 1996;74(2):495–6. Comment on: Nephron 1995;69(1):112–3.

Changes in lymphocyte subsets following administration of interleukin 2 and cyclophosphamide in mice with transitional cell carcinoma. Ikemoto S, et al. **Oncol Res** 1997;9(2):71–5

Clinical Trials Referral Resource. Clinical trials in bladder and urothelial cancers. Kaplan RS, et al. **Oncology (Huntingt)** 1997 Sep;11(9):1348, 1351

Bladder cancer. Leung HY, et al. **Postgrad Med J** 1996 Dec; 72(854):719–24 (35 ref.)

Disseminated pulmonary granulomas after intravesical bacillus Calmette-Guérin immunotherapy. De Diego A, et al. **Respiration** 1997;64(4):304–6

Epididymo-orchitis and Reiter's disease. Two infrequent complications after intravesical bacillus Calmette-Guérin therapy. Hansen CP, et al. **Scand J Urol Nephrol** 1997 Jun; 31(3):317–8

Reiter syndrome following intracavitary BCG administration. Saporta L, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):211–2

Conservative surgery, patient selection, and chemoradiation as organ-preserving treatment for muscle-invading bladder cancer. Douglas RM, et al. **Semin Oncol** 1996 Oct; 23(5):614–20 (34 ref.)

Therapy of superficial bladder cancer. Nseyo UO, et al. **Semin Oncol** 1996 Oct;23(5):598–604 (49 ref.)

Immunotherapy of bladder cancer. Nseyo UO, et al. **Semin Surg Oncol** 1997 Sep-Oct;13(5):342–9 (76 ref.)

Future therapies for the treatment of bladder neoplasms. See WA, et al. **Semin Surg Oncol** 1997 Sep-Oct;13(5):376–88 (101 ref.)

Diagnosis and treatment of superficial bladder cancer: an update. Crawford ED. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):1–9 (70 ref.)

Intravesical chemotherapy versus immunotherapy for superficial bladder cancer. Huben RP. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):17–22 (26 ref.)

The intensity dependence of the site of maximal energy deposition in focused ultrasound surgery. Watkin NA, et al. **Ultrasound Med Biol** 1996;22(4):483–91

Immunostimulation in the urinary bladder by local application of Nocardia rubra cell wall skeleton preparation (Rubratin) for superficial bladder cancer immunotherapy--a phase I/II study. de Reijke TM, et al. **Urol Res** 1997;25(2):117–20

Additional bacillus Calmette-Guérin therapy for recurrent transitional cell carcinoma after an initial complete response. Bui TT, et al. **Urology** 1997 May;49(5):687–90; discussion 690–1

Incidence of granulomatous prostatitis and acid-fast bacilli after intravesical BCG therapy. LaFontaine PD, et al. **Urology** 1997 Mar;49(3):363–6

Bacillus Calmette-Guérin plus intravesical interferon alpha-2b in patients with superficial bladder cancer. Stricker P, et al. **Urology** 1996 Dec;48(6):957–61; discussion 961–2

Adenovirus-mediated suicide gene therapy for experimental bladder cancer. Sutton MA, et al. **Urology** 1997 Feb; 49(2):173–80

New approaches in the treatment of metastatic transitional-cell cancer of the bladder. Corral DA, et al. **World J Urol** 1997;15(2):139–43 (28 ref.)

Natural history of superficial bladder tumors: 10- to 20-year follow-up of treated patients. Herr HW. **World J Urol** 1997; 15(2):84–8 (13 ref.)

Biologic response modifiers in the management of superficial bladder cancer. Serels S, et al. **World J Urol** 1997; 15(2):96–102 (89 ref.)

[Pitfalls in intravesical immunotherapy of superficial carcinoma of the gallbladder with BCG vaccine] Pacík D, et al. **Rozhl Chir** 1997 Jan;76(1):3–5 (Eng. Abstr.) **(Cze)**

[The need of prolonged BCG treatment in superficial bladder cancer is suggested by the development of a peripheral immune response induced by BCG] Shekarsarai H, et al. **Acta Urol Belg** 1997 Mar;65(1):1–4 (Eng. Abstr.) **(Fre)**

[Ethanol sclerotherapy in superficial bladder tumors] Damyanov C. **Ann Urol (Paris)** 1996;30(5):244–6 (Eng. Abstr.) **(Fre)**

[Infiltrating cancer of the bladder. Is concomitant radiochemotherapy an alternative to cystectomy?] Dufour B, et al. **Chirurgie** 1996;121(3):187–91; discussion 191–2 (15 ref.) (Eng. Abstr.) **(Fre)**

[Intradiverticular bladder tumors. Five case reports] Rozet F, et al. **Prog Urol** 1997 Apr;7(2):225–8 (Eng. Abstr.) **(Fre)**

[The quality of life after cystectomy or conservative therapy in bladder carcinomas] Dunst J. **Strahlenther Onkol** 1997 May;173(5):289–90 **(Ger)**

[Long-term experience with prophylactic BCG therapy of high risk patients with superficial bladder tumors] Prekopp G, et al. **Orv Hetil** 1997 Mar 2;138(9):531–5 (39 ref.) (Eng. Abstr.) **(Hun)**

[Role of MCP-1 chemokine in the response of monocytes of patients with superficial tumors of the bladder treated with BCG immunotherapy] Iantorno R, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:71–2 (Eng. Abstr.) **(Ita)**

[Levels of monokines in peripheral monocytes in patients with superficial tumors of the bladder treated with BCG. Results after 1- and 3-year follow-up] Iantorno R, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:69–70 (Eng. Abstr.) **(Ita)**

[Two cases of small cell carcinoma of the urinary bladder] Imamura M, et al. **Hinyokika Kiyo** 1996 Aug;42(8):595–9 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Extirpation of total urinary tract as a final treatment for asynchronous multicentric urothelial cancer: a case report] Mikata K, et al. **Hinyokika Kiyo** 1996 May;42(5):377–80 (Eng. Abstr.) **(Jpn)**

[Consideration of therapeutic choice for grade 3 superficial bladder cancer] Noguchi S, et al. **Hinyokika Kiyo** 1996 Sep;42(9):635–8 (Eng. Abstr.) **(Jpn)**

[Arthritis after BCG treatment of bladder cancer. A rare complication] Rødevand E, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10;116(27):3231–2 (Eng. Abstr.) **(Nor)**

[Dynamics of cytotoxicity of blood mononuclear cells in patients with bladder cancer during endolymphatic immunotherapy with lymphokine- activated killer cells and recombinant interleukin-2] Malakhova NV, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):188–91 **(Rus)**

[The intravesical administration of BCG vaccine in treating recurrent superficial bladder cancer] Panteleeva ES, et al. **Urol Nefrol (Mosk)** 1997 Mar-Apr;(2):29–32 (Eng. Abstr.) **(Rus)**

[Diagnosis and treatment of locally advanced cancer of the urinary bladder] Nechiporenko NA, et al. **Vopr Onkol** 1996; 42(4):66–8 (Eng. Abstr.) **(Rus)**

[Response of lymphocytes and cytokines in patients with superficial bladder cancer treated with 1 mg of BCG vaccine instillations] Rivera P, et al. **Actas Urol Esp** 1996 Oct;20(9):812–7 (Eng. Abstr.) **(Spa)**

[Advances in the treatment of infiltrating transitional cancer of the bladder] Escudero Barrilero A. **Arch Esp Urol** 1996 May;49(4):317–23; discussion 323–35 (0 ref.) **(Spa)**

[Results of a prospective study of chemoprophylaxis with alternating mitomycin-C and BCG: complete response and recurrence and progression index] Nohales Taurines G, et al. **Arch Esp Urol** 1996 Sep;49(7):689–92 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Primary neurilemmoma of the bladder. Brown IR, et al. **Br J Urol** 1997 Jan;79(1):132–3

A case of leiomyoma of the bladder during pregnancy. Gruenwald I, et al. **Br J Urol** 1997 Apr;79(4):647

Evaluation of effect of treatment for invasive bladder cancer by ultrasonography with intra-arterial infusion of carbon dioxide microbubbles. Akimoto T, et al. **Invest Radiol** 1997 Jul;32(7):396–400

Scrotal cystocele associated with bladder cancer diagnosed by ultrasonography. Yağci C, et al. **J Ultrasound Med** 1996 Nov;15(11):793–5

US case of the day. Cavernous hemangioma of the bladder. Kogan MG, et al. **Radiographics** 1996 Mar;16(2):443–7

[Leiomyosarcoma of the bladder. Apropos of a case] Ameur A, et al. **J Urol (Paris)** 1996;102(4):180–2 (Eng. Abstr.) **(Fre)**

[Echographic, MRI and CT features in a case of bladder endometriosis] Savoca G, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):193–6 (Eng. Abstr.) **(Ita)**

[Limitations of ultrasonography in the clinical course monitoring of bladder tumors] Paez Borda A, et al. **Actas Urol Esp** 1997 Jan;21(1):34–9 (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Granulocyte colony-stimulating factor receptor expression on human transitional cell carcinoma of the bladder. Tachibana M, et al. **Br J Cancer** 1997;75(10):1489–96

Morphological changes in the basement membrane during progression from non-invasive to invasive rat bladder cancer induced by N-butyl-N-(4-hydoxybutyl) nitrosamine. Zhang XH, et al. **Br J Urol** 1997 Mar; 79(3):378–82

Ultrastructural study of the noninvolved urothelium of tumor-bearing patients after two years of intravesical interferon therapy. Stravoravdi P, et al. **Eur Urol** 1996; 29(4):477–82

URINE

Significance of urinary epidermal growth factor and its receptor expression in human bladder cancer. Chow NH, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1293–6

Tumor-associated hyaluronic acid: a new sensitive and specific urine marker for bladder cancer. Lokeshwar VB, et al. **Cancer Res** 1997 Feb 15;57(4):773–7

Tumor-derived hyaluronidase: a diagnostic urine marker for high-grade bladder cancer. Pham HT, et al. **Cancer Res** 1997 Feb 15;57(4):778–83

Standardization of assay for cytokeratin-related tumor marker CYFRA21.1 in urine samples. Dittadi R, et al. **Clin Chem** 1996 Oct;42(10):1634–8

Sum variance--a most valuable parameter in computer-assisted image analysis of voided urines. Wiener H, et al. **Cytopathology** 1996 Aug;7(4):256–61

Detection of bladder tumor by urine cytology in cases of prostatic hypertrophy. Rammou-Kinia R, et al. **Diagn Cytopathol** 1996 Dec;15(5):409–11

Diagnosis of bladder cancer by analysis of the allelic loss of the p53 gene in urine samples using blunt-end single-strand conformation polymorphism. Sugano K, et al. **Int J Cancer** 1997 Aug 22;74(4):403–6

The efficacy of urinary cytology in the detection of recurrent bladder tumours. Baltaci S, et al. **Int Urol Nephrol** 1996; 28(5):649–53

Urinary zinc levels in patients with superficial bladder cancer. Konukoğlu D, et al. **J Basic Clin Physiol Pharmacol** 1996; 7(2):115–9

Genetic alterations as clonal markers for bladder cancer detection in urine. Mao L. **J Cell Biochem Suppl** 1996; 25:191–6 (39 ref.)

New tumor markers in bladder cancer: high promise for lower risk patients? [news] McNeil C. **J Natl Cancer Inst** 1996 Dec 4;88(23):1704–5

Initial evaluation of CYFRA 21-1 diagnostic performances as a urinary marker in bladder transitional cell carcinoma. Pariente JL, et al. **J Urol** 1997 Aug;158(2):338–41

Urinary and tissue levels of scatter factor in transitional cell carcinoma of bladder [see comments] Rosen EM, et al. **J Urol** 1997 Jan;157(1):72–8. Comment in: J Urol 1997 Jan;157(1):83–4.

A multicenter trial evaluation of the fibrin/fibrinogen degradation products test for detection and monitoring of bladder cancer. Schmetter BS, et al. **J Urol** 1997 Sep;158(3 Pt 1):801–5

Detection of bladder cancer recurrence by microsatellite analysis of urine. Steiner G, et al. **Nat Med** 1997 Jun; 3(6):621–4

Urinary glycosaminoglycan excretion in bladder carcinoma. Atahan O, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):173–7

Role of interleukin-8 in onset of the immune response in intravesical BCG therapy for superficial bladder cancer. de Boer EC, et al. **Urol Res** 1997;25(1):31–4

Improved detection of recurrent bladder cancer using the Bard BTA stat Test. Sarosdy MF, et al. **Urology** 1997 Sep; 50(3):349–53

The use of the BTA Test in the detection of persistent or recurrent transitional-cell cancer of the bladder. Sarosdy MF. **World J Urol** 1997;15(2):103–6 (12 ref.)

VETERINARY

Tumours of the urinary bladder, renal pelvis, ureter and urethra. Fukushima S, et al. **IARC Sci Publ** 1996; (126):243–59 (39 ref.)

Cisplatin treatment of transitional cell carcinoma of the urinary bladder in dogs: 18 cases (1983–1993). Chun R, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1588–91

Partial cystectomy for urinary bladder neoplasia: surgical technique and outcome in 11 dogs. Stone EA, et al. **J Small Anim Pract** 1996 Oct;37(10):480–5

High urine concentrations of basic fibroblast growth factor in dogs with bladder cancer. Allen DK, et al. **J Vet Intern Med** 1996 Jul-Aug;10(4):231–4

Juvenile rhabdomyosarcomas in two dogs. Kim DY, et al. **Vet Pathol** 1996 Jul;33(4):447–50

VIROLOGY

Human papillomavirus and bladder cancer. Lopez-Beltran A, et al. **Biomed Pharmacother** 1997;51(6–7):252–7 (34 ref.)

The aetiological significance of human papillomavirus in bladder cancer. Boucher NR, et al. **Br J Urol** 1996 Dec; 78(6):866–9

Presence of human papilloma virus in transitional cell carcinoma in Jewish population in Israel. Smetana Z, et al. **Cell Mol Biol (Noisy-le-grand)** 1995 Dec;41(8):1017–23

Human papillomavirus 16 and 18 infection is absent in urinary bladder carcinomas. Lu QL, et al. **Eur Urol** 1997; 31(4):428–32

Human papillomavirus in tissue of bladder and bladder carcinoma specimens. A preliminary study. Ludwig M, et al. **Eur Urol** 1996;30(1):96–102

Human papillomavirus and schistosomiasis associated bladder cancer. Cooper K, et al. **Mol Pathol** 1997 Jun;50(3):145–8

BLADDER, NEUROGENIC

Neurogenic bladder in infants and children--a new challenge for the radiologist. Fotter R. **Abdom Imaging** 1996 Nov-Dec;21(6):534–40 (13 ref.)

Degos' disease: radiological and immunological aspects. Yoshikawa H, et al. **Acta Neurol Scand** 1996 Nov; 94(5):353–6

Conservative approach to lower urinary tract abnormalities in cadaveric renal transplantation. Dorfman B, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):143–4

CHEMICALLY INDUCED

Two case reports of neurological disease in coal mine preparation plant workers. Mulloy KB. **Am J Ind Med** 1996 Jul;30(1):56–61

COMPLICATIONS

The urological fate of young adults with myelomeningocele: a three decade follow-up study. Peeker R, et al. **Eur Urol** 1997;32(2):213–7

Munchhausen's syndrome in urology. Heimbach D, et al. **Int Urol Nephrol** 1995;27(5):539–45

Urine leakage from the umbilicus in a child with achondroplasia and tetraplegia (due to cervical stenosis): a safety vent for the obstructed neuropathic bladder. Krishnan KR, et al. **Int Urol Nephrol** 1997;29(1):45–51

Endoscopic correction of vesicoureteral reflux in patients with neurogenic bladder dysfunction. Sugiyama T, et al. **Int Urol Nephrol** 1995;27(5):527–31

Endoscopic treatment of vesico-ureteric reflux in neurogenic bladder--8 years' experience. Misra D, et al. **J Pediatr Surg** 1996 Sep;31(9):1262–4

Surgical versus endoscopic correction of vesicoureteral reflux in children with neurogenic bladder dysfunction. Engel JD, et al. **J Urol** 1997 Jun;157(6):2291–4

Diabetic cystopathy: relationship to autonomic neuropathy detected by sympathetic skin response. Ueda T, et al. **J Urol** 1997 Feb;157(2):580–4

Analysis of gram negative recolonization of the neuropathic bladder among patients with spinal cord injuries. Donovan WH, et al. **Spinal Cord** 1996 Oct;34(10):587–91

Morbidity of dysfunctional voiding syndrome. Yang CC, et al. **Urology** 1997 Mar;49(3):445–8

[Endoscopic treatment of vesico-ureteral reflux in the neurogenic bladder. Presentation of 2 cases and review of the literature] Casals Armada J, et al. **Arch Esp Urol** 1997 May;50(4):381–7 (34 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

The ice-water test in the diagnosis and treatment of the neurogenic bladder. Ronzoni G, et al. **Br J Urol** 1997 May; 79(5):698–701

Long-term urological follow-up of occult spinal dysraphism in children. Capitanucci ML, et al. **Eur J Pediatr Surg** 1996 Dec;6 Suppl 1:25–6

Diagnostic value of natural fill cystometry in neurogenic bladder in children. Zermann DH, et al. **Eur Urol** 1997; 32(2):223–8

Urologic manifestation of spinal cord sarcoidosis. Fitzpatrick KJ, et al. **J Spinal Cord Med** 1996 Jul;19(3):201–3

Autonomic neuropathy involving the bladder and urethra function. Autonomic cystopathy. Facts or fiction?--What do we know? Walter S. **Scand J Urol Nephrol Suppl** 1996; 179:67–8

Evaluation and management of the urologic consequences of neurologic disease. Kotkin L, et al. **Tech Urol** 1996 Winter;2(4):210–9

Ice water test in patients with overactive bladder due to cerebrovascular accidents and bladder outlet obstruction. Ishigooka M, et al. **Urol Int** 1997;58(2):84–7

DRUG THERAPY

Desensitization of bladder sensory fibers by intravesical capsaicin has long lasting clinical and urodynamic effects in patients with hyperactive or hypersensitive bladder dysfunction. Cruz F, et al. **J Urol** 1997 Feb;157(2):585–9

Long-term intravesical oxybutynin chloride therapy in children with myelodysplasia. Painter KA, et al. **J Urol** 1996 Oct;156(4):1459–62

Complications of intravesical oxybutynin chloride therapy in the pediatric myelomeningocele population. Palmer LS, et al. **J Urol** 1997 Feb;157(2):638–40

Effect of intravenous alfuzosin on urethral pressure in

patients with neurogenic bladder dysfunction. DORALI Study Group. Perrigot M, et al. **Neurourol Urodyn** 1996; 15(2):119–31

[Effect of the Nucleus CMP forte in 46 patients with progressive spastic paraparesis. Randomized and blind study] Cartier L, et al. **Rev Med Chil** 1996 May; 124(5):583–7 (Eng. Abstr.) **(Spa)**

[Intravesical oxybutynin in children with meningomyelocele. Efficient treatment with few side-effects] Von Zweigbergk M, et al. **Lakartidningen** 1996 Oct 9;93(41):3573–6 **(Swe)**

ENZYMOLOGY

Increased expression of neuronal nitric oxide synthase in bladder afferent and spinal neurons following spinal cord injury. Vizzard MA. **Dev Neurosci** 1997;19(3):232–46

ETIOLOGY

Neurogenic bladder may be a side effect of focus resection in an epileptic patient. Sekido N, et al. **Int J Urol** 1997 Jan;4(1):101–3

Urologic problems in anorectal malformations. Part 2: functional urologic sequelae. Boemers TM, et al. **J Pediatr Surg** 1996 May;31(5):634–7

The nonneurogenic neurogenic bladder of early infancy. Jayanthi VR, et al. **J Urol** 1997 Sep;158(3 Pt 2):1281–5 (18 ref.)

Herniated disk: an obscure cause of neurogenic bladder in males. Hsu CH. **Kans Med** 1996 Summer–Fall;97(2):16–7

Correlation between clinical neurological data and urodynamic function in spinal cord injured patients. Wyndaele JJ. **Spinal Cord** 1997 Apr;35(4):213–6

Schistosomal myelopathy as a cause of neurogenic bladder dysfunction. Razdan S, et al. **Urology** 1997 May; 49(5):777–80

[Total agenesis of the sacrum and neurogenic bladder dysfunction] Capitanucci ML, et al. **Pediatr Med Chir** 1997 Mar–Apr;19(2):113–6 (Eng. Abstr.) **(Ita)**

[A case of familial amyotrophic lateral sclerosis with markedly decreased accumulation on 123I-MIBG myocardiac scintigraphy and atonic bladder] Yamamoto T, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):341–4 (Eng. Abstr.) **(Jpn)**

[Urologic manifestations in Wolfram's syndrome] Monllor Gisbert J, et al. **Actas Urol Esp** 1996 May;20(5):474–7 (Eng. Abstr.) **(Spa)**

METABOLISM

Type III collagen messenger RNA is modulated in non-compliant human bladder tissue. Kaplan EP, et al. **J Urol** 1997 Jun;157(6):2366–9

MICROBIOLOGY

Analysis of gram negative recolonization of the neuropathic bladder among patients with spinal cord injuries. Donovan WH, et al. **Spinal Cord** 1996 Oct;34(10):587–91

PHYSIOPATHOLOGY

Lower urinary tract dysfunction in Parkinson's disease: changes relate to age not disease [letter; comment] Castleden CM, et al. **Age Ageing** 1996 Jul;25(4):336. Comment on: Age Ageing 1995 Nov;24(6):499–504.

Comparison of long-term renal function after spinal cord injury using different urinary management methods. Sekar P, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):992–7

Spinal cord injury and bladder recovery. Weiss DJ, et al. **Arch Phys Med Rehabil** 1996 Nov;77(11):1133–5

Artificial urinary sphincters and the detrusor pressure in the neuropathic bladder [letter; comment] Foley SJ, et al. **Br J Urol** 1996 Nov;78(5):808–9. Comment on: Br J Urol 1996 Feb;77(2):252–5.

The neurogenic bladder. Straffon RA. **Clin Neurosurg** 1971; 18:441–56

Neurovesical dysfunction due to spinal dysraphism in anorectal anomalies. Capitanucci ML, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):159–62

Continuous (6 hour) urodynamic monitoring in children with neuropathic bladder. De Gennaro M, et al. **Eur J Pediatr Surg** 1996 Dec;6 Suppl 1:21–4

Prolonged recording of intravesical pressure (vesical "Holter") in the child with spina bifida. Di Rovasenda E, et al. **Eur J Pediatr Surg** 1996 Dec;6 Suppl 1:43–4

Electrovesicogram in the neurogenic bladder. Shafik A. **J Invest Surg** 1996 Nov–Dec;9(6):481–6

Reversible urinary retention as the main symptom in the first manifestation of a syringomyelia. Amoiridis G, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):407–8

In-vivo whole bladder response to anticholinergic and musculotropic agents in spinal cord injured rats. Shenot PJ, et al. **J Spinal Cord Med** 1997 Jan;20(1):31–5

The value of sympathetic skin response recordings in the assessment of the vesicourethral autonomic nervous dysfunction in spinal cord injured patients. Schurch B, et al. **J Urol** 1997 Jun;157(6):2230–3

Detrusor contractility in hyperreflexic bladders (from intracerebral neuropathies) versus unstable and stable unobstructed ones. Cucchi A. **Neurourol Urodyn** 1996; 15(2):109–15; discussion 115–7

Role of the transversus perinei profundus muscle on voiding: the meaning of UPmax in patients with paralyzed urethral sphincter. Iwatsubo E, et al. **Neurourol Urodyn** 1996; 15(3):169–75

Effect of intravenous alfuzosin on urethral pressure in patients with neurogenic bladder dysfunction. DORALI Study Group. Perrigot M, et al. **Neurourol Urodyn** 1996; 15(2):119–31

Restoration of micturition in patients with acontractile and hypocontractile detrusor by transurethral electrical bladder stimulation. Primus G, et al. **Neurourol Urodyn** 1996; 15(5):489–97

Occult spinal dysraphism: neurogenic voiding dysfunction and long-term urologic follow-up. Silveri M, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):148–50

Lack of association between cystopathy and progression of diabetic nephropathy in insulin-dependent diabetes mellitus. Torffvit O, et al. **Scand J Urol Nephrol** 1997 Aug; 31(4):365–9

Bladder dysfunction in schizophrenia. Bonney WW, et al. **Schizophr Res** 1997 Jun 20;25(3):243–9

Behçet's disease and the neuropathic bladder: urodynamic features: case report and a literature review. Porru D, et al. **Spinal Cord** 1996 May;34(5):305–7 (14 ref.)

Correlation between clinical neurological data and urodynamic function in spinal cord injured patients. Wyndaele JJ. **Spinal Cord** 1997 Apr;35(4):213–6

Autonomic hyperreflexia revisited. Schurch B, et al. **Urol Int** 1997;58(3):148–52

Urodynamic abnormalities in two brothers with adrenomyeloneuropathy. Walther MM, et al. **World J Urol** 1997;15(4):262–5 (11 ref.)

[Anal sphincter electromyography, bulbocavernosus reflex and pudendal somatosensory evoked potentials in diagnosis of neurogenic lumbosacral lesions with disorders of bladder and large intestine emptying and erectile dysfunction] Ziemann U, et al. **Nervenarzt** 1996 Feb;67(2):140–6 (Eng. Abstr.) **(Ger)**

REHABILITATION

Comparison of long-term renal function after spinal cord injury using different urinary management methods. Sekar P, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):992–7

Bladder management in acute care of stroke patients: a quality improvement project. Chan H. **J Neurosci Nurs** 1997 Jun; 29(3):187–90

Intermittent catheterization the right way! (Volume vs. time-directed). Binard JE, et al. **J Spinal Cord Med** 1996 Jul;19(3):194–6

Intravesical capsaicin in neurologic impaired patients with detrusor hyperreflexia. Das A, et al. **J Spinal Cord Med** 1996 Jul;19(3):190–3

Micturition by functional magnetic stimulation. Lin VW, et al. **J Spinal Cord Med** 1997 Apr;20(2):218–26

The importance of osmolality in hydrophilic urethral catheters: a crossover study. Waller L, et al. **Spinal Cord** 1997 Apr;35(4):229–33

[Functional rehabilitation of the urinary bladder after transection of cauda equina] Liu Z, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):719–22 (Eng. Abstr.) **(Chi)**

[Analysis of primary management of bladder malfunction in traumatic paraplegic patients] Zermann DH, et al. **Zentralbl Chir** 1997;122(3):177–80 (Eng. Abstr.) **(Ger)**

SURGERY

Spontaneous bladder perforation in paraplegia as a late complication of augmentation enterocystoplasty: case report. Rogers CJ, et al. **Arch Phys Med Rehabil** 1996 Nov; 77(11):1198–200

The effects of detubularization and outflow competence in substitution cystoplasty. Thomas PJ, et al. **Br J Urol** 1996 Nov;78(5):681–5

Continent cystostomy (Mitrofanoff's procedure) for neurogenic bladder in children and adolescent (56 cases: long-term results). Mollard P, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):34–7

Detrusorectomy with Mitrofanoff stoma. Morecroft JA, et al. **Eur J Pediatr Surg** 1996 Dec;6 Suppl 1:30–1

Selecting the appropriate urinary diversion procedure in the spinal cord injured: a poignant reminder. Razi SS, et al. **J Spinal Cord Med** 1996 Jul;19(3):197–200

Combined modified rectus fascial sling and augmentation ileocystoplasty for neurogenic incontinence in women. Fontaine E, et al. **J Urol** 1997 Jan;157(1):109–12

Re: Laparoscopic laser assisted auto-augmentation of the pediatric neurogenic bladder: early experience with urodynamic followup [letter; comment] Gonzalez R. **J Urol** 1996 Nov;156(5):1783. Comment on: J Urol 1996 Mar;155(3):1057–60.

Urethral lengthening with anterior bladder wall flap (Pippi Salle procedure): modifications and extended indications of the technique. Salle JL, et al. **J Urol** 1997 Aug; 158(2):585–90

A simplified Kropp procedure for incontinence. Snodgrass W. **J Urol** 1997 Sep;158(3 Pt 2):1049–52

Urethral lengthening and reimplantation: incidence and management of catheterization problems. Waters PR, et al. **J Urol** 1997 Sep;158(3 Pt 2):1053–6

Application of the Mitrofanoff principle in children with severe impairment of bladder function. Heij HA, et al. **Pediatr Surg Int** 1997 Apr;12(4):286–8

The role of external sphincterotomy for patients with a spinal cord lesion. Catz A, et al. **Spinal Cord** 1997 Jan;35(1):48–52

Bladder autoaugmentation in adult patients with neurogenic voiding dysfunction. Stöhrer M, et al. **Spinal Cord** 1997 Jul;35(7):456–62

Clinical outcome and quality of life after enterocystoplasty for contracted bladders. Kuo HC. **Urol Int** 1997;58(3):160–5

[Augmentation ileocystoplasty in neurologic bladder] Fontaine E, et al. **Prog Urol** 1996 Dec;6(6):901–6 (Eng. Abstr.) **(Fre)**

[Re: Prediction of continence in patients with neurogenic bladder who will be undergoing bladder augmentation (letter; comment)] Batista JE, et al. **Actas Urol Esp** 1996 Sep;20(8):765. Comment on: Actas Urol Esp 1995 Nov–Dec;19(10):777–82. **(Spa)**

[Are there a neuro-urological symptomatology improvement after spinal cord untethering?] López Pereira P, et al. **Cir Pediatr** 1996 Apr;9(2):81–4 (Eng. Abstr.) **(Spa)**

[Enterocystoplasties: results in 22 children] Miguélez Lago C, et al. **Cir Pediatr** 1996 Jul;9(3):98–102 (Eng. Abstr.) **(Spa)**

[Renal transplantation in patients with neurogenic bladder] Péfaur J, et al. **Rev Med Chil** 1996 May;124(5):579–82 (Eng. Abstr.) **(Spa)**

THERAPY

The neurogenic bladder in spinal cord injury--pattern and management. Chua HC, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):553–7

Intravesical therapy for the treatment of neurogenic bladder in children. Holland AJ, et al. **Aust N Z J Surg** 1997 Oct; 67(10):731–3

The 'Queen Square bladder stimulator': a device for assisting emptying of the neurogenic bladder. Dasgupta P, et al. **Br J Urol** 1997 Aug;80(2):234–7

Direct bladder stimulation with suture electrodes promotes voiding in a spinal animal model: a technical report. Walter JS, et al. **J Rehabil Res Dev** 1997 Jan;34(1):72–81

Posterior sacral rhizotomy and intradural anterior sacral root stimulation for treatment of the spastic bladder in spinal cord injured patients [see comments] Schurch B, et al. **J Urol** 1997 Feb;157(2):610–4. Comment in: J Urol 1997 Feb;157(2):615–6.

Intermittent self-catheterization by quadriplegic patients via a catheterizable Mitrofanoff channel. Sylora JA, et al. **J Urol** 1997 Jan;157(1):48–50

The effect of urinary tract reconstruction on neurologically impaired women previously treated with an indwelling urethral catheter [see comments] Watanabe T, et al. **J Urol** 1996 Dec;156(6):1926–8. Comment in: J Urol 1996 Dec;156(6):1929–30.

Neurogenic bladder dysfunction due to myelomeningocele: neonatal versus childhood treatment. Wu HY, et al. **J Urol** 1997 Jun;157(6):2295–7

Laparoscopic implantation of temporary electrodes for bladder stimulation in dogs. Hübner WA, et al. **Neurourol Urodyn** 1996;15(2):149–55

Urodynamically controlled management of spinal cord injury in children. Pannek J, et al. **Neurourol Urodyn** 1997; 16(4):285–92

Restoration of micturition in patients with acontractile and hypocontractile detrusor by transurethral electrical bladder stimulation. Primus G, et al. **Neurourol Urodyn** 1996; 15(5):489–97

Maximal external electrical stimulation for treatment of neurogenic or non-neurogenic urgency and/or urge incontinence. Primus G, et al. **Neurourol Urodyn** 1996; 15(3):187–94

Collagen injections for intrinsic sphincter deficiency in the neuropathic urethra. Bennett JK, et al. **Paraplegia** 1995 Dec;33(12):697–700

Endoscopic treatment of vesicoureteric reflux in adults with a neuropathic bladder. Foley SJ, et al. **Spinal Cord** 1996 Nov;34(11):657–8

The utility of the Malone antegrade continence enema for urologists. Teichman JM, et al. **Tech Urol** 1997 Spring; 3(1):30–3

[Transvaginal closure of the bladder neck in women with a neurogenic bladder and destroyed urethra] Chassagne S, et al. **Prog Urol** 1997 Apr;7(2):286–92 (8 ref.) (Eng. Abstr.) **(Fre)**

[Early management of closed dysraphism in children. Value of urodynamic and manometry studies] Kneuse G, et al. **Rev Med Suisse Romande** 1996 Dec;116(12):951–7 **(Fre)**

[The use of type A botulin toxin in the treatment of detrusor–sphincter dyssynergia] Beleggia F, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:61–3 (Eng. Abstr.) **(Ita)**

ULTRASONOGRAPHY

Possible use of ultrasonically-estimated bladder weight in patients with neurogenic bladder dysfunction. Kojima M, et al. **Neurourol Urodyn** 1996;15(6):641–9

[Portable bladder ultrasonography: a new technic for the urological management of pediatric spinal cord damage] Mercurella A, et al. **Pediatr Med Chir** 1997 May–Jun; 19(3):197–8 (Eng. Abstr.) **(Ita)**

BLADDER STONES see **BLADDER CALCULI**

BLADE IMPLANTATION

A histologic evaluation of retrieved hydroxyapatite-coated

blade-form implants using scanning electron, light, and confocal laser scanning microscopies. Takeshita F, et al. **J Periodontol** 1996 Oct;67(10):1034-40

[Blade implants: new ideas] Commissionat Y, et al. **Rev Stomatol Chir Maxillofac** 1996 Oct;97(5):283-7 (Eng. Abstr.) **(Fre)**

BLAST-2 ANTIGEN, B-CELL see **ANTIGENS, DIFFERENTIATION, B-LYMPHOCYTE**

BLAST CRISIS

Acute bilineage leukemia after chronic myelogenous leukemia. Williams SR, et al. **J Ky Med Assoc** 1997 Sep; 95(9):393-6

P53 gene mutations in chronic myelogenous leukemia medullary and extramedullary blast crisis. Marasca R, et al. **Leuk Lymphoma** 1996 Dec;24(1-2):175-82

Thy-1 expression on blast cells from adult patients with acute myeloid leukemia. Kozii R, et al. **Leuk Res** 1997 May; 21(5):381-5

Effect of (-)-epigallocatechin gallate on leukemic blast cells from patients with acute myeloblastic leukemia. Asano Y, et al. **Life Sci** 1997;60(2):135-42

Blastic transformation of p53-deficient bone marrow cells by p210bcr/abl tyrosine kinase. Skorski T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13137-42

BLOOD

[Intracellular retention of cytarabine-triphosphate (Ara-CTP) in blasts of children with acute lymphoblastic leukemia. Correlation with clinical course parameters] Schiller M, et al. **Klin Padiatr** 1996 Jul-Aug;208(4):151-9 (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Chronic myelogenous leukemia in blast crisis: retrospective analysis of prognostic factors in 90 patients. Griesshammer M, et al. **Ann Hematol** 1996 Nov;73(5):225-30

CML blast crisis resulting in biliary obstruction following BMT. Fleming DR, et al. **Bone Marrow Transplant** 1997 Apr;19(8):853-4

PTHrP-mediated hypercalcaemia in a case of CML blast crisis [see comments] Kubonishi I, et al. **Br J Haematol** 1997 Jan;96(1):165-7. Comment in: Br J Haematol 1997 Jul;98(1):245-6.

DRUG THERAPY

Biochemically targeted therapy of refractory leukemia and myeloid blast crisis of chronic granulocytic leukemia with Tiazofurin, a selective blocker of inosine 5'-phosphate dehydrogenase activity. Tricot G, et al. **Anticancer Res** 1996 Nov-Dec;16(6A):3341-7

Tiazofurin effects on IMP-dehydrogenase activity and expression in the leukemia cells of patients with CML blast crisis. Wright DG, et al. **Anticancer Res** 1996 Nov-Dec; 16(6A):3349-51

Phase I clinical and laboratory evaluation of topotecan and cytarabine in patients with acute leukemia. Seiter K, et al. **J Clin Oncol** 1997 Jan;15(1):44-51

FLANG (fludarabine + cytosine arabinoside + novantrone + G-CSF) induces partial remission in lymphoid blast transformation of Ph+chronic myelogenous leukaemia. Martinelli G, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):173-6

Results of decitabine therapy in the accelerated and blastic phases of chronic myelogenous leukemia. Kantarjian HM, et al. **Leukemia** 1997 Oct;11(10):1617-20

[Effectiveness of various chemotherapy regimens for patients with chronic myeloid leukemia in blast crisis] Abdulkadyrov KM, et al. **Vopr Onkol** 1997;43(3):284-9 (Eng. Abstr.) **(Rus)**

GENETICS

p53 loss and point mutations are associated with suppression of apoptosis and progression of CML into myeloid blastic crisis. Stuppia L, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):28-35

Dominant-negative mutations of the Wilms' tumour predisposing gene (WT1) are infrequent in CML blast crisis and de novo acute leukaemia. Carapeti M, et al. **Eur J Haematol** 1997 May;58(5):346-9

Genetic lesions associated with blastic transformation of polycythemia vera and essential thrombocythemia. Gaidano G, et al. **Genes Chromosomes Cancer** 1997 Aug; 19(4):250-5

Identification of translocational breakpoints within the intron region before the last coding exon (exon 12) of the EVI1 gene in two cases of CML-BC with inv(3)(q21q26). Suzukawa K, et al. **Genomics** 1997 Jun 1;42(2):356-60

TEL/AML1 fusion gene resulting from a cryptic t(12;21) is uncommon in adult patients with B-cell lineage ALL and CML lymphoblastic transformation. Hoshino K, et al. **Int J Hematol** 1997 Aug;66(2):213-8

Biphenotypic blast crisis of chronic myelogenous leukemia: abnormalities of p53 and retinoblastoma genes. Ishikura H, et al. **Leuk Lymphoma** 1997 May;25(5-6):573-8

Increasing methylation of the calcitonin gene during disease progression in sequential samples from CML patients. Mills KI, et al. **Leuk Res** 1996 Sep;20(9):771-5

Rarity of dominant-negative mutations of the G-CSF receptor in patients with blast crisis of chronic myeloid leukemia or de novo acute leukemia. Carapeti M, et al. **Leukemia** 1997 Jul;11(7):1005-8

Molecular mechanism of blastic crisis in chronic myelocytic leukemia. Mitani K. **Leukemia** 1997 Apr;11 Suppl 3:503-5

Absence of microsatellite instability during the progression of chronic myelocytic leukemia. Mori N, et al. **Leukemia** 1997 Jan;11(1):151-2

IMMUNOLOGY

Leukemia-associated phenotypes: their characteristics and incidence in acute leukemia. Babuštková O, et al. **Neoplasma** 1996;43(6):367-72

Immunophenotypic characteristics of the blast crisis in chronic myeloid leukemia. López-Karpovitch X, et al. **Rev Invest Clin** 1997 Jan-Feb;49(1):31-6 (23 ref.)

METABOLISM

A novel energy dependent mechanism reducing daunorubicin accumulation in acute myeloid leukemia. Hedley DW, et al. **Leukemia** 1997 Jan;11(1):48-53

PATHOLOGY

T-cell blast crisis in chronic myelogenous leukemia. Immunophenotypic and molecular biologic findings. Dorfman DM, et al. **Am J Clin Pathol** 1997 Feb; 107(2):168-76 (49 ref.)

A hypothesis implicating adhesive interaction specificities in the configuration of the mode of exponential growth of acute myeloid leukemia cells. Papaphilis AD. **Anticancer Res** 1996 Sep-Oct;16(5A):2955-60

Effect of the chimeric soluble granulocyte colony-stimulating factor receptor on the proliferation of leukemic blast cells from patients with acute myeloblastic leukemia. Asano Y, et al. **Cancer Res** 1997 Aug 15; 57(16):3395-7

Extramedullary blast transformation in a patient with chronic myelogenous leukaemia. Gebremedhin A. **Ethiop Med J** 1997 Jan;35(1):57-61 (15 ref.)

Apoptotic and antiproliferative effects of gemcitabine and gemcitabine plus Ara-C on blast cells from patients with blast crisis chronic myeloproliferative disorders. Santini V, et al. **Haematologica** 1997 Jan-Feb;82(1):11-5

Hepatosplenic T-cell lymphoma: prolymphocytic transformation 18 months after splenectomy. Sohn SK, et al. **Int J Hematol** 1997 Aug;66(2):227-32

Multifocal osseous blast crisis preceding marrow blastic phase in chronic myeloid leukemia. Chitalkar PG, et al. **J Assoc Physicians India** 1996 Mar;44(3):212-3

Peripheral blast counts at diagnosis of late isolated bone marrow relapse of childhood acute lymphoblastic leukemia predict response to salvage chemotherapy and outcome. Berlin-Frankfurt-Münster Relapse Study Group. Bührer C, et al. **J Clin Oncol** 1996 Oct;14(10):2812-7

Extramedullary blast crisis of chronic myeloid leukaemia in a lymph node aspiration. Kini H, et al. **J Indian Med Assoc** 1996 Aug;94(8):323

Establishment and characterization of a novel human bone marrow stromal cell line, FS-1. Kato H, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):153-61,follow.186, color plate XIII

Extramedullary blast crisis in chronic myeloid leukemia. Specchia G, et al. **Leuk Res** 1996 Nov-Dec;20(11-12):905-8 (28 ref.)

Clonal instability preceding lymphoid blastic transformation of chronic myeloid leukemia. Spencer A, et al. **Leukemia** 1997 Feb;11(2):195-201

Burkitt-like blast crisis in chronic myeloid leukemia. Colovic M, et al. **Med Oncol** 1996 Jun;13(2):119-20

[Successful treatment of acute non-lymphoblastic leukemia from myelodysplastic syndrome by combination of human macrophage colony-stimulating factor (M-CSF) and low dose cytosine arabinoside: M-CSF-induced proliferation and tyrosine phosphorylation in leukemic blasts] Hagiwara S, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1259-64 (Eng. Abstr.) **(Jpn)**

[Blast differentiation in a patient with chronic myeloid leukemia in blast crisis using retinoic acid] Burgaleta C, et al. **Sangre (Barc)** 1995 Dec;40(6):509-12 (Eng. Abstr.) **(Spa)**

[Chronic myeloid leukemia developing into a multifocal extramedullary blast crisis (see comments)] Tapia M, et al. **Sangre (Barc)** 1997 Feb;42(1):77-80 (22 ref.) (Eng. Abstr.). Comment in: Sangre (Barc) 1997 Feb;42(1):5-6. **(Spa)**

SURGERY

Splenectomy in the accelerated or blastic phase of chronic myelogenous leukemia: a single-institution, 25-year experience. Bouvet M, et al. **Surgery** 1997 Jul;122(1):20-5

THERAPY

Blast crisis of chronic myelogenous leukemia in long-lasting systemic lupus erythematosus: regression of both diseases after autologous bone marrow transplantation [letter; comment] Meloni G, et al. **Blood** 1997 Jun 15;89(12):4659 . Comment on: Blood 1996 Nov 1;88(9):3621-5.

[Amplification of hypervariable genomic regions for establishment of the type of hematopoiesis in hemoblastosis patients after allogeneic bone marrow transplantation] Demidova IA, et al. **Genetika** 1997 Apr;33(4):546-9 (Eng. Abstr.) **(Rus)**

BLAST INJURIES

The spectrum of pediatric injuries after a bomb blast [published erratum appears in J Pediatr Surg 1997 Jun;32(6):932] Quintana DA, et al. **J Pediatr Surg** 1997 Feb; 32(2):307-10; discussion 310-1

From the Centers for Disease Control and Prevention. Landmine-related injuries, 1993-1996. **JAMA** 1997 Aug 27;278(8):621

Landmines: time for a ban [letter] Malik GM, et al. **Lancet** 1997 Sep 20;350(9081):891

Landmine-related injuries, 1993-1996. **MMWR Morb Mortal Wkly Rep** 1997 Aug 8;46(31):724-6

[Blast injury: detonation and injury pattern] Kluger Y, et al. **Harefuah** 1997 Apr 15;132(8):591-3 **(Heb)**

CEREBROSPINAL FLUID

[The immunological and biochemical reactions of the cerebrospinal fluid in victims of blast injuries of the skull and brain] Khil'ko VA, et al. **Vestn Khir Im I I Grek** 1995; 154(4-6):54-5 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Explosion injuries of the hand. Spatial relationship and injury pattern. Hahn P, et al. **J Hand Surg [Br]** 1996 Dec; 21(6):785-7

COMPLICATIONS

Risk of late perforation in intestinal contusions caused by explosive blast. Cripps NP, et al. **Br J Surg** 1997 Sep; 84(9):1298-303

Effects of blast overpressure on the ear: case reports. Chandler DW, et al. **J Am Acad Audiol** 1997 Apr;8(2):81-8

Blindness and the coward's weapon [editorial; comment] Schwab L. **Ophthalmic Epidemiol** 1997 Mar;4(1):1-2. Comment on: Ophthalmic Epidemiol 1997 Mar;4(1):27-32.

[Pulmonary complications in severe combined craniocerebral trauma (their pathogenesis, clinical picture, diagnosis and treatment)] Gembitskiĭ EV, et al. **Klin Med (Mosk)** 1996; 74(2):12-6 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Traumatic autonephrectomy due to explosion: a case report and literature review. Donat R, et al. **Int Urol Nephrol** 1996;28(6):743-6 (10 ref.)

[The diagnosis of damages to the auditory system in the early period of explosive mine trauma and the optimization of treatment for the victims] Ianov IuK, et al. **Voen Med Zh** 1997 Apr;318(4):26-31, 80 (Eng. Abstr.) **(Rus)**

[Report of a case of blast injury. Importance of not overlooking occult injuries] Loogna P, et al. **Lakartidningen** 1996 Oct 2;93(40):3475-6 **(Swe)**

EPIDEMIOLOGY

Firecracker injuries [editorial] O'Riain S. **Ir Med J** 1996 Sep-Oct;89(5):170

Ballistic trauma in 1991/92 war in Osijek, Croatia: shell fragments versus bullets. Lovrić Z, et al. **J R Army Med Corps** 1997 Feb;143(1):26-30

The incidence of landmine injuries in Kuito, Angola [see comments] Chaloner EJ. **J R Coll Surg Edinb** 1996 Dec; 41(6):398-400. Comment in: J R Coll Surg Edinb 1996 Dec;41(6):397.

ETIOLOGY

Antipersonnel mines: who are the victims? Jeffrey SJ. **J Accid Emerg Med** 1996 Sep;13(5):343-6

Unusual pattern of injury caused by a pyrotechnic hand held signal flare. Oliver DW, et al. **J Accid Emerg Med** 1997 Jul;14(4):258-9

Trauma after radial keratotomy and photorefractive keratectomy. Schmitt-Bernard CF, et al. **J Cataract Refract Surg** 1997 Jun;23(5):803-4

Landmines: morality vs. expediency? [editorial; comment] Rowley DI. **J R Coll Surg Edinb** 1996 Dec;41(6):397. Comment on: J R Coll Surg Edinb 1996 Dec;41(6):398-400.

The anti-personnel land mine epidemic: a case report and review of the literature [see comments] Gondring WH. **Mil Med** 1996 Dec;161(12):760-2 (6 ref.). Comment in: Mil Med 1997 Apr;162(4):i.

Anti-personnel land mine epidemic: a case report and review of the literature [letter; comment] Qualls ML, et al. **Mil Med** 1997 Apr;162(4):i. Comment on: Mil Med 1996 Dec;161(12):760-2.

HISTORY

[The role of the Department of Forensic Medicine of the Military Medical Academy in the study of gunshot and blast trauma] Isakov VD, et al. **Voen Med Zh** 1997 Mar; 318(3):68-70 **(Rus)**

IMMUNOLOGY

[The enhancement of the adaptive resistance of wounded patients to the action of the factors in air transport

evacuation] Grechko AT, et al. **Voen Med Zh** 1996 Nov; 317(11):11–3 **(Rus)**

METABOLISM

Air blast–induced pulmonary oxidative stress: interplay among hemoglobin, antioxidants, and lipid peroxidation. Gorbunov NV, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L320–34

MICROBIOLOGY

[The microflora of gunshot and explosive mine wounds in victims delayed for a long time at the prehospital stage] Badikov VD, et al. **Voen Med Zh** 1996 Sep;317(9):34–7, 80 (Eng. Abstr.) **(Rus)**

MORTALITY

Death due to a methane gas explosion in a tunnel on urban reclaimed land. Nagao M, et al.
Am J Forensic Med Pathol 1997 Jun;18(2):135–9

Blast injuries: bus versus open–air bombings––a comparative study of injuries in survivors of open–air versus confined–space explosions. Leibovici D, et al. **J Trauma** 1996 Dec;41(6):1030–5

PATHOLOGY

Studies of the choroid plexus and its associated epiplexus cells in the lateral ventricles of rats following an exposure to a single non–penetrative blast. Kaur C, et al.
Arch Histol Cytol 1996 Aug;59(3):239–48

Macrophages/microglia as 'sensors' of injury in the pineal gland of rats following a non–penetrative blast. Kaur C, et al. **Neurosci Res** 1997 Apr;27(4):317–22

The pathology of primary blast overpressure injury. Mayorga MA. **Toxicology** 1997 Jul 25;121(1):17–28 (44 ref.)

[An expert study of the action of an explosion on the human body] Apollonov AIu, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):13–5 (Eng. Abstr.) **(Rus)**

[The action of an explosion on the human body (the pathomorphological, forensic medical and criminalistics aspects)] Apollonov AIu, et al. **Sud Med Ekspert** 1996 Oct–Dec;39(4):4–7 **(Rus)**

[Biomechanical criteria of the damaging action of an explosion] Apollonov AIu, et al. **Sud Med Ekspert** 1996 Oct–Dec;39(4):7–10 **(Rus)**

PHYSIOPATHOLOGY

A model of blast overpressure injury to the lung. Stuhmiller JH, et al. **J Biomech** 1996 Feb;29(2):227–34

Blast injuries: bus versus open–air bombings––a comparative study of injuries in survivors of open–air versus confined–space explosions. Leibovici D, et al. **J Trauma** 1996 Dec;41(6):1030–5

Exposure to sublethal blast overpressure reduces the food intake and exercise performance of rats. Bauman RA, et al. **Toxicology** 1997 Jul 25;121(1):65–79

A proposed biochemical mechanism involving hemoglobin for blast overpressure–induced injury. Elsayed NM, et al. **Toxicology** 1997 Jul 25;121(1):81–90

Toxicology of blast overpressure. Elsayed NM.
Toxicology 1997 Jul 25;121(1):1–15 (76 ref.)

Maximal exercise performance–impairing effects of simulated blast overpressure in sheep. Januszkiewicz AJ, et al.
Toxicology 1997 Jul 25;121(1):51–63

Blast overpressure induced structural and functional changes in the auditory system. Patterson JH Jr, et al.
Toxicology 1997 Jul 25;121(1):29–40

Visual system degeneration induced by blast overpressure. Petras JM, et al. **Toxicology** 1997 Jul 25;121(1):41–9

Biological response to blast overpressure: a summary of modeling. Stuhmiller JH. **Toxicology** 1997 Jul 25; 121(1):91–103 (45 ref.)

[The enhancement of the adaptive resistance of wounded patients to the action of the factors in air transport evacuation] Grechko AT, et al. **Voen Med Zh** 1996 Nov; 317(11):11–3 **(Rus)**

PREVENTION & CONTROL

Accurate anatomical location of war injuries: analysis of the Lebanon war fatal casualties and the proposition of new principles for the design of military personal armour system. Gofrit ON, et al. **Injury** 1996 Oct;27(8):577–81

PSYCHOLOGY

[The mental health of surgical patients with combat wounds] Nechiporenko VV, et al. **Vestn Khir Im I I Grek** 1996; 155(5):59–61 (Eng. Abstr.) **(Rus)**

SURGERY

An expresso explosion [letter] Abenavoli FM, et al.
Ann Plast Surg 1996 Dec;37(6):679

One–stage reconstruction of war wounds with free osteocutaneous flaps. Džepina I, et al. **Br J Plast Surg** 1997 Feb;50(2):81–7

Penetrating cardiothoracic war wounds. Biočina B, et al.
Eur J Cardiothorac Surg 1997 Mar;11(3):399–405

War injuries of the kidney. Kuveždic H, et al. **Injury** 1996 Oct;27(8):557–9

The reverse pedicle heterodigital cross–finger island flap. Germann G, et al. **J Hand Surg [Br]** 1997 Feb;22(1):25–9

Management of maxillofacial injuries in the Iran–Iraq War. Akhlaghi F, et al. **J Oral Maxillofac Surg** 1997 Sep; 55(9):927–30;discussion 930–1

Tire explosion injuries to the upper extremity. Blechner MH, et al. **J South Orthop Assoc** 1995 Winter;4(4):255–62

Spinal stability after war missile injuries of the spine. Splavski B, et al. **J Trauma** 1996 Nov;41(5):850–3

[Hemipelvectomy due to blast injuries: possibilities of occupational rehabilitation] Cesarec M, et al.
Arh Hig Rada Toksikol 1996 Sep;47(3):289–93 (Eng. Abstr.) **(Scr)**

THERAPY

The management of blast injury. Guzzi LM, et al.
Eur J Emerg Med 1996 Dec;3(4):252–5 (28 ref.)

The St Marys fragmentation grenade explosion [see comments] [published erratum appears in Med J Aust 1997 Jun 16;166(12):633] Nocera A. **Med J Aust** 1997 May 19; 166(10):545–8. Comment in: Med J Aust 1997 May 19;166(10):517–8.

Management of primary blast injury. Argyros GJ.
Toxicology 1997 Jul 25;121(1):105–15 (57 ref.)

[Injuries caused by anti–personnel mines] Chmátal P.
Rozhl Chir 1996 Mar;75(3):147–9 (Eng. Abstr.) **(Cze)**

BLAST PHASE see **BLAST CRISIS**

BLAST TRANSFORMATION see **LYMPHOCYTE TRANSFORMATION**

BLASTOCLADIELLA

GENETICS

Large–subunit rRNA sequence of the chytridiomycete Blastocladiella emersonii, and implications for the evolution of zoosporic fungi. Van der Auwera G, et al.
J Mol Evol 1996 Nov;43(5):476–83

Protein factors in Blastocladiella emersonii cell extracts recognize similar sequence elements in the promoters of the genes encoding cAMP–dependent protein kinase subunits. de Oliveira JC, et al. **Mol Gen Genet** 1997 Aug; 255(5):495–503

METABOLISM

Protein factors in Blastocladiella emersonii cell extracts recognize similar sequence elements in the promoters of the genes encoding cAMP–dependent protein kinase subunits. de Oliveira JC, et al. **Mol Gen Genet** 1997 Aug; 255(5):495–503

BLASTOCRITHIDIA see **TRYPANOSOMATINA**

BLASTOCYST

see related
PREIMPLANTATION PHASE

Effect of serum from fertile and infertile patients with endometriosis on the development of mouse embryos. Abu–Musa A, et al. **Acta Obstet Gynecol Scand** 1996 Aug; 75(7):605–7

XIST expression and X–chromosome inactivation in human preimplantation embryos [editorial; comment] Brown CJ, et al. **Am J Hum Genet** 1997 Jul;61(1):5–8 (28 ref.). Comment on: Am J Hum Genet 1997 Jul;61(1):33–9.

XIST expression in human oocytes and preimplantation embryos [see comments] Daniels R, et al.
Am J Hum Genet 1997 Jul;61(1):33–9. Comment in: Am J Hum Genet 1997 Jul;61(1):5–8.

Differences on post–thawing survival between ovine morulae and blastocysts cryopreserved with ethylene glycol or glycerol. Cocero MJ, et al. **Cryobiology** 1996 Oct; 33(5):502–7

Origin of primordial germ cells in the prestreak chick embryo. Karagenç L, et al. **Dev Genet** 1996;19(4):290–301

Establishment of the axis in chordates: facts and speculations. Eyal–Giladi H. **Development** 1997 Jun;124(12):2285–96 (95 ref.)

Typing of X chromosomes bearing Tabby allele in mouse preimplantation embryos by detection of a microsatellite marker. Valdivia RP, et al. **Exp Anim** 1996 Oct;45(4):395–8

Frozen preimplantation embryos: parental responsibility versus laboratory liability. Veeck LL. **Hum Reprod** 1997 Jun;12(6):1121–4

Cystic fibrosis, Duchenne muscular dystrophy and preimplantation genetic diagnosis. Liu J, et al.
Hum Reprod Update 1996 Nov–Dec;2(6):531–9 (95 ref.)

Does Ca2+/Mg(2+)–free medium have an effect on the survival of the preimplantation mouse embryo after biopsy? Santaló J, et al. **Hum Reprod Update** 1996 May–Jun; 2(3):257–61

Embryo associated immunosuppressor factor (EASF) and serum estradiol synergism in pre–embryonic development after in vitro fertilization. Bose R, et al. **Immunol Lett** 1996 Aug;52(1):15–22

Influence of mosaicism on sexing of human preembryos detected by the polymerase chain reaction [see comments] Katagiri Y, et al. **J Assist Reprod Genet** 1996 Aug; 13(7):586–91. Comment in: J Assist Reprod Genet 1996 Aug;13(7):592–3.

Sodium chloride, osmolyte, and osmolarity effects on blastocyst formation in bovine embryos produced by in vitro fertilization (IVF) and cultured in simple serum–free media. Liu Z, et al. **J Assist Reprod Genet** 1996 Aug; 13(7):562–8

Mosaicism and aneuploidy in human preembryos [editorial; comment] Strom CM. **J Assist Reprod Genet** 1996 Aug; 13(7):592–3. Comment on: J Assist Reprod Genet 1996 Aug;13(7):586–91.

Application of assisted hatching for 2–day–old, frozen–thawed embryo transfer in a poor–prognosis population. Tao J, et al. **J Assist Reprod Genet** 1997 Feb; 14(2):128–30

Removal of cytoplasm from one–celled mouse embryos induces early blastocyst formation. Feng YL, et al.
J Exp Zool 1997 Mar 1;277(4):345–52

Reliable sex determination of mouse preimplantation embryos by PCR amplification of male–specific genes in single blastomeres. Tangchaisin P, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S78–87

Transcription of Y– and X–linked genes in preimplantation ovine embryos. Bernardi ML, et al. **Mol Reprod Dev** 1996 Oct;45(2):132–8

Detection of microinjected genes in bovine preimplantation embryos with combined DNA digestion and polymerase chain reaction. Hyttinen JM, et al. **Mol Reprod Dev** 1996 Feb;43(2):150–7

Nuclear transfer in cattle using in vivo–derived vs. in vitro–produced donor embryos: effect of developmental stage. Zakhartchenko V, et al. **Mol Reprod Dev** 1996 Aug; 44(4):493–8

An alpha–E–catenin gene trap mutation defines its function in preimplantation development. Torres M, et al.
Proc Natl Acad Sci U S A 1997 Feb 4;94(3):901–6

[Expression of recombinant DNA RSVlacZ and pCMVlacZ in preimplantation rabbit embryos] Gogolevskii PA, et al.
Genetika 1996 Aug;32(8):1045–50 (Eng. Abstr.) **(Rus)**

[Ultrafast freezing of the embryos of outbred and inbred mouse strains] Krivokharchenko AS, et al. **Ontogenez** 1996 Jul–Aug;27(4):300–4 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Batch analysis of the ATP content of bovine sperm, oocytes, and early embryos using a scintillation counter to measure the chemiluminescence produced by the luciferin–luciferase reaction. Rieger D. **Anal Biochem** 1997 Mar 1;246(1):67–70

Purification and partial biochemical characterization of an S–type lectin from blastula embryos of Bufo arenarum. Elola MT, et al.
Comp Biochem Physiol B Biochem Mol Biol 1996 Oct; 115(2):175–82

Transcription factor mTEAD–2 is selectively expressed at the beginning of zygotic gene expression in the mouse. Kaneko KJ, et al. **Development** 1997 May;124(10):1963–73

DNA methylation patterns in tumors derived from F9 cells resemble methylation at the blastula stage. Yeivin A, et al. **FEBS Lett** 1996 Oct 14;395(1):11–6

Simultaneous detection of multiple gene expression in mouse and human individual preimplantation embryos. Liu HC, et al. **Fertil Steril** 1997 Apr;67(4):733–41

Transfection of the inner cell mass and lack of a unique DNA sequence affecting the uptake of exogenous DNA by sperm as shown by dideoxy sequencing analogues. Cabrera M, et al. **J Assist Reprod Genet** 1997 Feb;14(2):120–4

Archival fixed and analysed preimplantation human embryonic cells: a DNA resource for retrospective PCR analysis at the cellular level. Smith TA, et al.
Mol Hum Reprod 1997 Feb;3(2):149–55

Efficient selection of preimplantation transgenic embryos by an improved procedure using Dpn I–Bal 31 digestion and the polymerase chain reaction. Seo BB, et al.
Reprod Fertil Dev 1997;9(2):263–9

CYTOLOGY

Formation of reticulated endoderm, Reichert's membrane, and amniogenesis in blastocysts of captive–bred, short–tailed fruit bats, Carollia perspicillata. Badwaik NK, et al. **Anat Rec** 1997 Jan;247(1):85–101

Cell proliferation is reduced in parthenogenetic mouse embryos at the blastocyst stage: a quantitative study. Uranga JA, et al. **Anat Rec** 1997 Feb;247(2):243–7

Apoptosis during mouse blastocyst formation: evidence for a role for survival factors including transforming growth factor alpha. Brison DR, et al. **Biol Reprod** 1997 May; 56(5):1088–96

Ratio of inner cell mass and trophoblastic cells in blastocysts derived from porcine 4– and 8–cell embryos and isolated blastomeres cultured in vitro in the presence or absence of protein and human leukemia inhibitory factor. Eckert J, et al. **Biol Reprod** 1997 Sep;57(3):552–60

Rat hepatoma Reuber H–35 cells produce factors that promote the hatching of mouse embryos cultured in vitro. Kobayashi M, et al. **Biol Reprod** 1997 Apr;56(4):1041–9

Pluripotent cell lines derived from common marmoset (Callithrix jacchus) blastocysts. Thomson JA, et al.
Biol Reprod 1996 Aug;55(2):254–9

TGF–beta 1 regulation of laminin secretion by F9–derived primitive endoderm cells: a potential role in cell migration within the mouse blastocyst. Tonary AM, et al.
Can J Physiol Pharmacol 1996 Aug;74(8):940–8

Regulation of transcriptional activity during the first and second cell cycles in the preimplantation mouse embryo.

Aoki F, et al. **Dev Biol** 1997 Jan 15;181(2):296–307

Meiotic and mitotic Ca2+ oscillations affect cell composition in resulting blastocysts. Bos-Mikich A, et al. **Dev Biol** 1997 Feb 1;182(1):172–9

Cell-junctional and cytoskeletal organization in mouse blastocysts lacking E-cadherin. Ohsugi M, et al. **Dev Biol** 1997 May 15;185(2):261–71

Integrin trafficking regulates adhesion to fibronectin during differentiation of mouse peri-implantation blastocysts. Schultz JF, et al. **Dev Genet** 1997;21(1):31–43

Tight junction assembly during mouse blastocyst formation is regulated by late expression of ZO-1 alpha+ isoform. Sheth B, et al. **Development** 1997 May;124(10):2027–37

Following cell fate in the living mouse embryo. Zernicka-Goetz M, et al. **Development** 1997 Mar; 124(6):1133–7

G2 arrest and impaired nucleocytoplasmic transport in mouse embryos lacking the proto-oncogene CAN/Nup214. van Deursen J, et al. **EMBO J** 1996 Oct 15;15(20):5574–83

The MS-5 murine stromal cell line and hematopoietic growth factors synergize to support the megakaryocytic differentiation of embryonic stem cells. Berthier R, et al. **Exp Hematol** 1997 Jun;25(6):481–90

Use of Synthetic Serum Substitute and alpha-minimum essential medium for the extended culture of human embryos to the blastocyst stage. Desai N, et al. **Hum Reprod** 1997 Feb;12(2):328–35

Co-culture of embryos and feeder cells. Plachot M. **Hum Reprod** 1996 Sep;11 Suppl 1:35–42; discussion 51–5 (26 ref.)

Effect of medium renewal during culture in two different culture systems on development to blastocysts from in vitro produced early bovine embryos. Fukui Y, et al. **J Anim Sci** 1996 Nov;74(11):2752–8

A programmed oxyradical burst causes hatching of mouse blastocysts. Thomas M, et al. **J Cell Sci** 1997 Jul;110 (Pt 14):1597–602

Mechanisms of cell number regulation in the peri-implantation mouse blastocyst. Evsikov SV, et al. **J Exp Zool** 1996 Oct 15;276(3):201–8

Transcription-dependent induction of G1 phase during the zebra fish midblastula transition. Zamir E, et al. **Mol Cell Biol** 1997 Feb;17(2):529–36

Programmed cell death and human embryo fragmentation. Jurisicova A, et al. **Mol Hum Reprod** 1996 Feb;2(2):93–8

Production of identical sextuplet mice by transferring metaphase nuclei from four-cell embryos. Kwon OY, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13010–3

Fate-map analysis of the epiblast of the dasyurid marsupial Sminthopsis macroura (Gould). Cruz YP, et al. **Reprod Fertil Dev** 1996;8(4):779–88

Changes in structure of the trophectoderm of a marsupial in Mid-pregnancy up to the time of implantation. Roberts CT, et al. **Reprod Fertil Dev** 1996;8(4):797–802

The type and differentiation of cells in vitro from unilaminar and bilaminar blastocysts of two marsupials, Antechinus stuartii and Sminthopsis macroura. Yousef A, et al. **Reprod Fertil Dev** 1996;8(4):743–52

Cyclic AMP reversal of hypoxanthine-arrested preimplantation mouse embryos is EDTA-dependent. Dienhart MK, et al. **Zygote** 1996 May;4(2):129–37

[Activity of the embryonal genome of mink during diapause (cytogenetic analysis): number of cells and cell nucleus size in blastocysts or various size and age] Isakova GK, et al. **Genetika** 1997 Jun;33(6):822–30 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Effects of alcohols on murine preimplantation development: relationship to relative membrane disordering potency. Kowalczyk CL, et al. **Alcohol Clin Exp Res** 1996 May; 20(3):566–71

Short-term effects of exogenous estradiol-17 beta on blastocyst development during the period of elongation in swine. Cárdenas H, et al. **Anim Reprod Sci** 1997 May; 47(1–2):123–35

In vitro maturation of bovine oocytes in the presence of bovine activin A does not affect the number of embryos. Izadyar F, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):37–45

Ratio of inner cell mass and trophoblastic cells in blastocysts derived from porcine 4- and 8-cell embryos and isolated blastomeres cultured in vitro in the presence or absence of protein and human leukemia inhibitory factor. Eckert J, et al. **Biol Reprod** 1997 Sep;57(3):552–60

Tamoxifen and RU39411 synergize with mifepristone to produce preimplantation pregnancy loss by increasing embryo transport (rat). Kaplan-Kraicer R, et al. **Contraception** 1996 Jun;53(6):367–73

Zinc is a possible toxic contaminant of silicone oil in microdrop cultures of preimplantation mouse embryos. Erbach GT, et al. **Hum Reprod** 1995 Dec;10(12):3248–54

The effect of activin-A on the development of mouse preimplantation embryos in vitro. Orimo T, et al. **J Assist Reprod Genet** 1996 Sep;13(8):669–74

Effects of epidermal growth factor on preimplantation mouse embryos. Terada A, et al. **J Assist Reprod Genet** 1997 Aug; 14(7):404–11

The effect of melatonin on cleavage rate of C57BL/6 and CBA/Ca preimplantation embryos cultured in vitro. McElhinny AS, et al. **J Pineal Res** 1996 Aug;21(1):44–8

Effect of insulin-like growth factor I (IGF-I) at high concentrations on blastocyst development of bovine embryos produced in vitro. Palma GA, et al. **J Reprod Fertil** 1997 Jul;110(2):347–53

Prolactin-induced termination of obligate diapause of mink (Mustela vison) blastocysts in vitro and subsequent establishment of embryonic stem-like cells. Polejaeva IA, et al. **J Reprod Fertil** 1997 Mar;109(2):229–36

Succinate and malate improve development of hamster eight-cell embryos in vitro: confirmation of viability by embryo transfer. Ain R, et al. **Mol Reprod Dev** 1997 Aug; 47(4):440–7

Epigenetic alterations brought about by lithium treatment disrupt mouse embryo development. Rogers I, et al. **Mol Reprod Dev** 1996 Oct;45(2):163–70

Cleavage and development in cultured preimplantation mouse embryos exposed to lidocaine. Del Valle LJ, et al. **Reprod Toxicol** 1996 Nov-Dec;10(6):491–6

The effect of ethanol upon early development in mice and rats. XXIII. The effect of indomethacin on beer-induced disturbances of preimplantation development in rats. Fazakas-Todea I, et al. **Rom J Morphol Embryol** 1996 Jan-Jun;42(1–2):33–40

Exposure of embryonic cells to alcohol: contrasting effects during preimplantation and postimplantation development. Armant DR, et al. **Semin Perinatol** 1996 Apr;20(2):127–39 (115 ref.)

Comparative effects of essential and nonessential metals on preimplantation mouse embryo development in vitro. Hanna LA, et al. **Toxicology** 1997 Jan 15;116(1–3):123–31

Cyclic AMP reversal of hypoxanthine-arrested preimplantation mouse embryos is EDTA-dependent. Dienhart MK, et al. **Zygote** 1996 May;4(2):129–37

Effect of inhibitors of DNA replication on early zebrafish embryos: evidence for coordinate activation of multiple intrinsic cell-cycle checkpoints at the mid-blastula transition. Ikegami R, et al. **Zygote** 1997 May;5(2):153–75

[Effects of blastocyst deficiencies induced by aspirin treatment during preimplantation period in rats on development of embryos after implantation] Ying Y, et al. **Yao Hsueh Hsueh Pao** 1996;31(6):416–9 (Eng. Abstr.) **(Chi)**

[Ultroser-G and 5-azacytidine prolong the development of parthenogenetic mouse embryos] Penkov LI, et al. **Ontogenez** 1997 Mar-Apr;28(2):138–43 (Eng. Abstr.) **(Rus)**

[The positive effect of pretreatment with serotonin and gangliosides on the development of early mouse embryos after cryopreservation] Sakharova NIu, et al. **Ontogenez** 1997 Mar-Apr;28(2):125–31 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Cloning of mouse 17beta-hydroxysteroid dehydrogenase type 2, and analysing expression of the mRNAs for types 1, 2, 3, 4 and 5 in mouse embryos and adult tissues. Mustonen MVJ, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):199–205

A developmental switch in expression from blastocyst to endometrial/placental-type cytochrome P450 aromatase genes in the pig and horse. Choi I, et al. **Biol Reprod** 1997 Mar;56(3):688–96

Evidence for the presence of sodium- and potassium-dependent adenosine triphosphatase alpha1 and beta1 subunit isoforms and their probable role in blastocyst expansion in the preattachment horse conceptus. Waelchli RO, et al. **Biol Reprod** 1997 Sep;57(3):630–40

Immunocytochemical detection and spatial distribution of myosin light-chain kinase in preimplantation mouse embryos. Kabir N, et al. **J Exp Zool** 1997 Jun 15; 278(3):147–55

CTP:phosphocholine cytidylyltransferase activity in the preimplantation mouse embryo. Moon EA, et al. **J Reprod Fertil** 1997 Jul;110(2):213–8

Immunohistochemical and ultrastructural localization of prostaglandin H synthase in the preimplantation mouse embryo. van der Weiden RM, et al. **J Reprod Fertil** 1996 Jul;107(2):161–6

Expression and activity of hexokinase in the early mouse embryo. Houghton FD, et al. **Mol Hum Reprod** 1996 Oct; 2(10):793–8

Genetic expression of hexokinase and glucose phosphate isomerase in late-stage mouse preimplantation embryos: transcription activities in glucose/phosphate-containing HTF and glucose/phosphate-free P1 media. Johnson MD, et al. **Mol Hum Reprod** 1997 Apr;3(4):351–7

Quantification of hexokinase mRNA in mouse blastocysts by competitive reverse transcriptase polymerase chain reaction. Johnson MD, et al. **Mol Hum Reprod** 1997 Apr; 3(4):359–65

Expression of urokinase-type plasminogen activator in human preimplantation embryos. Khamsi F, et al. **Mol Hum Reprod** 1996 Apr;2(4):273–6

Quantification of minute levels of beta galactosidase in individual 2- to 16-cell-stage mouse embryos. Forlani S, et al. **Trends Genet** 1996 Dec;12(12):498–500

IMMUNOLOGY

Analysis of gene function in lymphocytes by RAG-2-deficient blastocyst complementation. Chen J. **Adv Immunol** 1996;62:31–59 (104 ref.)

TGF-beta 2 and PGE2 in rabbit blastocoelic fluid can modulate GM-CSF production by human lymphocytes. Fortin M, et al. **Am J Reprod Immunol** 1997 Aug; 38(2):129–39

TGF beta 2 in rabbit blastocoelic fluid regulates CD4 membrane expression: possible role in the success of gestation. Ouellette MJ, et al. **Am J Reprod Immunol** 1997 Jan;37(1):125–36

CA125 in culture medium of preimplantation embryo. Borri P, et al. **Gynecol Obstet Invest** 1996;41(2):73–5

PCR identification of class I major histocompatibility complex genes transcribed in mouse blastocyst and placenta. Landel CP, et al. **J Reprod Immunol** 1997 Apr; 33(1):31–43

Management of rhesus isoimmunization by preimplantation genetic diagnosis. Avner R, et al. **Mol Hum Reprod** 1996 Jan;2(1):60–2

Monoclonal antibodies against human blastocysts. Nilsson BO, et al. **Ups J Med Sci** 1995;100(3):217–21

METABOLISM

PAF released by preimplantation embryos binds to albumin. Ammit AJ, et al. **Adv Exp Med Biol** 1996;416:263–7 (46 ref.)

Interferon-gamma production by the human preimplantation embryo. Ozornek MH, et al. **Am J Reprod Immunol** 1997 Jun;37(6):435–7

Development, glycolytic activity, and viability of preimplantation mouse embryos subjected to different periods of glucose starvation. Leppens-Luisier G, et al. **Biol Reprod** 1997 Mar;56(3):589–96

Alterations of intraembryonic metabolites in preimplantation mouse embryos exposed to elevated concentrations of glucose: a metabolic explanation for the developmental retardation seen in preimplantation embryos from diabetic animals. Moley KH, et al. **Biol Reprod** 1996 Jun; 54(6):1209–16

Activation of brain-type cannabinoid receptors interferes with preimplantation mouse embryo development. Yang ZM, et al. **Biol Reprod** 1996 Oct;55(4):756–61

Routes of Cl- transport across the trophectoderm of the mouse blastocyst. Zhao Y, et al. **Dev Biol** 1997 Sep 1; 189(1):148–60

Expression and cell membrane localization of catenins during mouse preimplantation development. Ohsugi M, et al. **Dev Dyn** 1996 Aug;206(4):391–402

Matrix metalloproteinase-9 maps to the distal end of chromosome 2 in the mouse. Leco KJ, et al. **Dev Genet** 1997;21(1):55–60

Expression of connexin31 and connexin43 genes in early rat embryos. Reuss B, et al. **Dev Genet** 1997;21(1):82–90

Lack of effect of granulocyte-macrophage colony-stimulating factor on secretion of interferon-tau, other proteins, and prostaglandin E2 by the bovine and ovine conceptus. de Moraes AA, et al. **Domest Anim Endocrinol** 1997 May;14(3):193–7

Isolation and amino acid sequence analysis reveal an ancient evolutionary origin of the cleavage stage (CS) histones of the sea urchin. Brandt WF, et al. **Eur J Biochem** 1997 Aug 1;247(3):784–91

Selection of viable mouse blastocysts prior to transfer using a metabolic criterion. Lane M, et al. **Hum Reprod** 1996 Sep;11(9):1975–8

Metabolic control during preimplantation mammalian development. Leese HJ. **Hum Reprod Update** 1995 Jan; 1(1):63–72 (106 ref.)

Sequence and transcription of Qa-2-encoding genes in mouse lymphocytes and blastocysts. Cai W, et al. **Immunogenetics** 1996;45(2):97–107

A new major histocompatibility complex class I b gene expressed in the mouse blastocyst and placenta. Sipes SL, et al. **Immunogenetics** 1996;45(2):108–20

Analysis of parent-specific gene expression in early mouse embryos and embryonic stem cells using high-resolution two-dimensional electrophoresis of proteins. Bowden L, et al. **Int J Dev Biol** 1996 Apr;40(2):499–506

Differential expression of BMP receptors in early mouse development. Roelen BA, et al. **Int J Dev Biol** 1997 Aug; 41(4):541–9

Role of reactive oxygen species in diabetes-induced embryotoxicity: studies on pre-implantation mouse embryos cultured in serum from diabetic pregnant women. Ornoy A, et al. **Isr J Med Sci** 1996 Nov;32(11):1066–73

The in vitro development of mouse embryos beyond the blastocyst stage into the hatching and outgrowth stage using different energy sources. Drakakis P, et al. **J Assist Reprod Genet** 1996 Nov;13(10):786–92

Normal twins born following preimplantation genetic diagnosis in a couple affected by X-linked hydrocephaly. Drury KC, et al. **J Assist Reprod Genet** 1996 Nov; 13(10):797–800

Beneficial effects of coculture with cumulus cells on blastocyst formation in a prospective trial with supernumerary human embryos. Quinn P, et al. **J Assist Reprod Genet** 1996 Jan;13(1):9–14

Pregnancies resulting from embryos biopsied for preimplantation diagnosis of genetic disease: biochemical and ultrasonic studies in the first trimester of pregnancy. Soussis I, et al. **J Assist Reprod Genet** 1996 Mar;13(3):254–8

Evaluation of synthetic serum substitute versus serum as protein supplementation for mouse and human embryo culture. Tucker KE, et al. **J Assist Reprod Genet** 1996 Jan; 13(1):32–7

A programmed oxyradical burst causes hatching of mouse blastocysts. Thomas M, et al. **J Cell Sci** 1997 Jul;110 (Pt 14):1597–602

Prostaglandins and ovum implantation in mice. Pakrasi PL. **J Exp Zool** 1997 May 1;278(1):53–7

Carbohydrate uptake by quiescent and reactivated mouse blastocysts. Spindler RE, et al. **J Exp Zool** 1996 Oct 1; 276(2):132–7

PGE2, but not TGF beta 2, in rabbit blastocoelic fluid regulates the cytotoxic activities of NK and LAK cells. Bergeron D, et al. **J Reprod Immunol** 1997 Jul;33(3):203–19

Different pattern of interleukin–1 beta–(IL–1 beta), interleukin–1 receptor antagonist– (IL–1ra) and interleukin–1 receptor type I– (IL–1R tI) mRNA–expression in single preimplantation mouse embryos at various developmental stages. Kruessel JS, et al. **J Reprod Immunol** 1997 Sep;34(2):103–20

Postfertilization deadenylation of mRNAs in Xenopus laevis embryos is sufficient to cause their degradation at the blastula stage. Audic Y, et al. **Mol Cell Biol** 1997 Jan; 17(1):209–18

Expression of intercellular junctions during preimplantation development of the human embryo. Hardy K, et al. **Mol Hum Reprod** 1996 Aug;2(8):621–32

Temporal expression of platelet–derived growth factor (PDGF)–A and its receptor in human preimplantation embryos. Osterlund C, et al. **Mol Hum Reprod** 1996 Jul; 2(7):507–12

Complement–binding proteins are strongly expressed by human preimplantation blastocysts and cumulus cells as well as gametes. Taylor CT, et al. **Mol Hum Reprod** 1996 Jan;2(1):52–9

Expression of leukaemia inhibitory factor receptor subunits LIFR beta and gp130 in human oocytes and preimplantation embryos. van Eijk MJ, et al. **Mol Hum Reprod** 1996 May;2(5):355–60

What is the relationship between the metabolism of preimplantation embryos and their developmental competence? Barnett DK, et al. **Mol Reprod Dev** 1996 Jan; 43(1):105–33 (277 ref.)

Role of the first round of DNA replication in reprogramming gene expression in the preimplantation mouse embryo. Davis W Jr, et al. **Mol Reprod Dev** 1997 Aug;47(4):430–4

Expression of myc–family, myc–interacting, and myc–target genes during preimplantation mouse development. Domashenko AD, et al. **Mol Reprod Dev** 1997 May; 47(1):57–65

Nutrient uptake and utilization can be used to select viable day 7 bovine blastocysts after cryopreservation. Gardner DK, et al. **Mol Reprod Dev** 1996 Aug;44(4):472–5

New member of the Snf1/AMPK kinase family, Melk, is expressed in the mouse egg and preimplantation embryo. Heyer BS, et al. **Mol Reprod Dev** 1997 Jun;47(2):148–56

Maternal age effect on early human embryonic development and blastocyst formation. Janny L, et al. **Mol Reprod Dev** 1996 Sep;45(1):31–7

Transgenic mouse blastocysts that overexpress metallothionein–I resist cadmium toxicity in vitro. Lee DK, et al. **Mol Reprod Dev** 1996 Feb;43(2):158–66

Expression of mRNA for the insulin–like growth factors and their receptors in human preimplantation embryos. Lighten AD, et al. **Mol Reprod Dev** 1997 Jun;47(2):134–9

IGF–I and insulin regulate glucose transport in mouse blastocysts via IGF–I receptor. Pantaleon M, et al. **Mol Reprod Dev** 1996 May;44(1):71–6

Stage–dependent redistributions of acetylated histones in nuclei of the early preimplantation mouse embryo. Stein P, et al. **Mol Reprod Dev** 1997 Aug;47(4):421–9

Expression and function of amphiregulin during murine preimplantation development. Tsark EC, et al. **Mol Reprod Dev** 1997 Jul;47(3):271–83

Requirement for protein synthesis during embryonic genome activation in mice. Wang Q, et al. **Mol Reprod Dev** 1997 Jul;47(3):265–70

IGF2 is parentally imprinted in human preimplantation embryos [letter] Lighten AD, et al. **Nat Genet** 1997 Feb; 15(2):122–3

Gene targeting in C57BL/6 ES cells. Successful germ line transmission using recipient BALB/c blastocysts developmentally matured in vitro. Lemckert FA, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):917–8

Muscle isoactin expression during in vitro differentiation of murine embryonic stem cells. Ng WA, et al. **Pediatr Res** 1997 Feb;41(2):285–92

Glucose transporter GLUT3: ontogeny, targeting, and role in the mouse blastocyst. Pantaleon M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3795–800

Consumption of amino acids by bovine preimplantation embryos. Partridge RJ, et al. **Reprod Fertil Dev** 1996; 8(6):945–50

Osmolality of equine blastocyst fluid from day 11 to day 25 of pregnancy. Waelchli RO, et al. **Reprod Fertil Dev** 1996;8(6):981–8

Developmentally regulated markers of in vitro–produced preimplantation bovine embryos. Shehu D, et al. **Zygote** 1996 May;4(2):109–21

PATHOLOGY

The use of fluorescent in–situ hybridization (FISH) for the analysis of in–vitro fertilization embryos: a diagnostic tool for the infertile couple. Harper JC, et al. **Hum Reprod** 1995 Dec;10(12):3255–8

The origin of genetic defects in the human and their detection in the preimplantation embryo. Delhanty JD, et al. **Hum Reprod Update** 1995 May;1(3):201–15 (59 ref.)

PHYSIOLOGY

PAF promotes the development of the preimplantation embryo. O'Neill C. **Adv Exp Med Biol** 1996;416:255–61 (20 ref.)

Autosomal recessive lateralization and midline defects: blastogenesis recessive 1. Debrus S, et al. **Am J Med Genet** 1997 Feb 11;68(4):401–4

Blastogenesis dominant 1: a sequence with midline anomalies and heterotaxy. de Meeus A, et al. **Am J Med Genet** 1997 Feb 11;68(4):405–8

Primary developmental field. III: Clinical and epidemiological study of blastogenetic anomalies and their relationship to different MCA patterns. Martínez–Frías ML, et al. **Am J Med Genet** 1997 May 2;70(1):11–5

Bicarbonate/chloride exchange and intracellular pH throughout preimplantation mouse embryo development. Zhao Y, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1512–20

Postimplantation development of mouse blastocysts with two separate inner cell masses. Ożdżeński W, et al. **Anat Embryol (Berl)** 1997 May;195(5):467–71

Investigations of BrdU incorporation in roe deer blastocysts in vitro. Lengwinat T, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):103–7

Dietary excesses of urea influence the viability and metabolism of preimplantation sheep embryos and may affect fetal growth among survivors. McEvoy TG, et al. **Anim Reprod Sci** 1997 May;47(1–2):71–90

Development of mouse embryos following the destruction of blastomeres. Matte C, et al. **Arch Biol Med Exp (Santiago)** 1987;20(3–4):295–303

Apoptosis during mouse blastocyst formation: evidence for a role for survival factors including transforming growth factor alpha. Brison DR, et al. **Biol Reprod** 1997 May; 56(5):1088–96

Apolipoprotein J/clusterin expression defines distinct stages of blastocyst implantation in the mouse uterus. Brown TL, et al. **Biol Reprod** 1996 Oct;55(4):740–7

beta–mercaptoethanol enhances blastocyst formation rate of bovine in vitro–matured/in vitro–fertilized embryos. Caamaño JN, et al. **Biol Reprod** 1996 Nov;55(5):1179–84

Nucleologenesis and ribonucleic acid synthesis in preimplantation equine embryos. Grøndahl C, et al. **Biol Reprod** 1996 Oct;55(4):769–74

Parthenogenic development of in vitro–matured, in vivo–cultured porcine oocytes beyond blastocyst. Jolliff WJ, et al. **Biol Reprod** 1997 Feb;56(2):544–8

Rat hepatoma Reuber H–35 cells produce factors that promote the hatching of mouse embryos cultured in vitro. Kobayashi M, et al. **Biol Reprod** 1997 Apr;56(4):1041–9

Role of epidermal growth factor in bovine oocyte maturation and preimplantation embryo development in vitro. Lonergan P, et al. **Biol Reprod** 1996 Jun;54(6):1420–9

Preparation of animals with a high degree of chimerism by one–step coculture of embryonic stem cells and preimplantation embryos. Khillan JS, et al. **Biotechniques** 1997 Mar;22(3):544–9

The tumor suppressor Smad4/DPC 4 as a central mediator of Smad function. Zhang Y, et al. **Curr Biol** 1997 Apr 1; 7(4):270–6

Embryonic stem cells and in vitro muscle development. Baker RK, et al. **Curr Top Dev Biol** 1996;33:263–79 (68 ref.)

Meiotic and mitotic Ca2+ oscillations affect cell composition in resulting blastocysts. Bos–Mikich A, et al. **Dev Biol** 1997 Feb 1;182(1):172–9

A conserved element in the protein–coding sequence is required for normal expression of replication–dependent histone genes in developing Xenopus embryos. Ficzycz A, et al. **Dev Biol** 1997 Feb 1;182(1):21–32

A role for cyclin E/Cdk2 in the timing of the midblastula transition in Xenopus embryos. Hartley RS, et al. **Dev Biol** 1997 Aug 15;188(2):312–21

Early embryonic lethality caused by targeted disruption of the mouse thioredoxin gene. Matsui M, et al. **Dev Biol** 1996 Aug 25;178(1):179–85

Modulation of embryonic intracellular Ca2+ signaling by Wnt–5A. Slusarski DC, et al. **Dev Biol** 1997 Feb 1; 182(1):114–20

Expression of heparan sulfate proteoglycan (perlecan) in the mouse blastocyst is regulated during normal and delayed implantation. Smith SE, et al. **Dev Biol** 1997 Apr 1; 184(1):38–47

Kinematics of trophectoderm projections and locomotion in the peri–implantation hamster blastocyst. Gonzales DS, et al. **Dev Dyn** 1996 Apr;205(4):435–44

The early blastocyst is bilaterally symmetrical and its axis of symmetry is aligned with the animal–vegetal axis of the zygote in the mouse. Gardner RL. **Development** 1997 Jan; 124(2):289–301

Spindlin, a major maternal transcript expressed in the mouse during the transition from oocyte to embryo. Oh B, et al. **Development** 1997 Jan;124(2):493–503

XIPOU 2 is a potential regulator of Spemann's Organizer. Witta SE, et al. **Development** 1997 Mar;124(6):1179–89

Disturbed development of the preimplantation embryo in the insulin–dependent diabetic BB/E rat. Lea RG, et al. **Diabetes** 1996 Nov;45(11):1463–70

Coculture with ovarian cancer cell enhances human blastocyst formation in vitro. Ben–Chetrit A, et al. **Fertil Steril** 1996 Mar;65(3):664–6

Detrimental effect of hydrosalpinx fluid on the development and blastulation of mouse embryos in vitro. Sachdev R, et al. **Fertil Steril** 1997 Sep;68(3):531–3

Blastocyst development and conceptus sex selection in red deer Cervus elaphus: studies of a free–living population on the Isle of Rum. Flint AP, et al. **Gen Comp Endocrinol** 1997 Jun;106(3):374–83

Alleviation of the '2–cell block' and development to the blastocyst of CF1 mouse embryos: role of amino acids, EDTA and physical parameters. Gardner DK, et al. **Hum Reprod** 1996 Dec;11(12):2703–12

Implantation of the human embryo. Lopata A. **Hum Reprod** 1996 Sep;11 Suppl 1:175–84; discussion 193–5 (31 ref.)

Development of in–vitro–fertilized primate embryos into blastocysts in a chemically defined, protein–free culture medium. Schramm RD, et al. **Hum Reprod** 1996 Aug; 11(8):1690–7

Polyvinyl alcohol and amino acids as substitutes for bovine serum albumin in culture media for mouse preimplantation embryos. Biggers JD, et al. **Hum Reprod Update** 1997 Mar–Apr;3(2):125–35

A model for implantation of the human blastocyst and early placentation. Bischof P, et al. **Hum Reprod Update** 1996 May–Jun;2(3):262–70

Prolonged development of normal and parthenogenetic postimplantation mouse embryos in vitro. Penkov LI, et al. **Int J Dev Biol** 1995 Dec;39(6):985–91

Development in vitro of Marsupials: a comparative review of species and a timetable of cleavage and early blastocyst stages of development in Monodelphis domestica. Selwood L, et al. **Int J Dev Biol** 1997 Apr;41(2):397–410

Administration of testosterone from day 13 of the estrous cycle to estrus increased the number of corpora lutea and conceptus survival in gilts. Cárdenas H, et al. **J Anim Sci** 1997 Jan;75(1):202–7

Optimizing tubal epithelial cell growth promotes mouse embryo hatching in coculture. Frasor J, et al. **J Assist Reprod Genet** 1996 May;13(5):423–30

In vitro development of spontaneously activated bovine oocytes. Plante L, et al. **J Assist Reprod Genet** 1996 May; 13(5):435–46

Heterotrimeric kinesin–II is required for the assembly of motile 9+2 ciliary axonemes on sea urchin embryos. Morris RL, et al. **J Cell Biol** 1997 Sep 8;138(5):1009–22

Normal development of preimplantation mouse embryos deficient in gap junctional coupling. De Sousa PA, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1751–8

Mechanisms of cell number regulation in the peri–implantation mouse blastocyst. Evsikov SV, et al. **J Exp Zool** 1996 Oct 15;276(3):201–8

Effect of population density on the early post–implantation mouse embryo growth in vitro. Kang BM, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):119–24

Role for insulin–like growth factor I in the regulation of electrolyte composition of uterine luminal fluid. Katagiri S, et al. **J Reprod Fertil** 1997 Jan;109(1):115–20

Differential regulation of mouse embryo development and viability by amino acids. Lane M, et al. **J Reprod Fertil** 1997 Jan;109(1):153–64

Stimulation of development in vitro by platelet–activating factor receptor ligands released by mouse preimplantation embryos. Stoddart NR, et al. **J Reprod Fertil** 1996 Sep; 108(1):47–53

Effect of the quality of the cumulus–oocyte complex in the domestic cat on the ability of oocytes to mature, fertilize and develop into blastocysts in vitro. Wood TC, et al. **J Reprod Fertil** 1997 Jul;110(2):355–60

Expression of the gap junction gene connexin43 (Cx43) in preimplantation bovine embryos derived in vitro or in vivo. Wrenzycki C, et al. **J Reprod Fertil** 1996 Sep;108(1):17–24

Use of a specific aromatase inhibitor for determining whether there is a role for oestrogen in follicle/oocyte maturation, ovulation and preimplantation embryo development. Moudgal NR, et al. **J Reprod Fertil Suppl** 1996;50:69–81

PGE2, but not TGF beta 2, in rabbit blastocoelic fluid regulates the cytotoxic activities of NK and LAK cells. Bergeron D, et al. **J Reprod Immunol** 1997 Jul;33(3):203–19

Effects of cryopreservation of DNA synthesis in the inner cell mass of in vitro matured/in vitro fertilized bovine embryos frozen in various cryoprotectants. Takagi M, et al. **J Vet Med Sci** 1996 Dec;58(12):1237–8

Plasminogen activator activity in the bovine oocyte–cumulus complex and early embryo. Yamada M, et al. **J Vet Med Sci** 1996 Apr;58(4):317–22

Generation of completely embryonic stem cell–derived mutant mice using tetraploid blastocyst injection. Wang ZQ, et al. **Mech Dev** 1997 Mar;62(2):137–45

Construction of heteroplasmic mice containing two mitochondrial DNA genotypes by micromanipulation of single–cell embryos. Laipis PJ. **Methods Enzymol** 1996; 264:345–57

Blastocyst–endometrial interaction: an appraisal of some old and new ideas. Lopata A. **Mol Hum Reprod** 1996 Jul; 2(7):519–25 (49 ref.)

Microinjection of bivalve eggs: application in genetics. Cadoret JP, et al. **Mol Mar Biol Biotechnol** 1997 Mar; 6(1):72–7

Construction of a mouse blastocyst cDNA library by PCR amplification from total RNA. Corrick CM, et al. **Mol Reprod Dev** 1996 Jan;43(1):7–16

Low levels of chimerism in rabbit fetuses produced from preimplantation embryos microinjected with fetal gonadal cells. Moens A, et al. **Mol Reprod Dev** 1996 Jan;43(1):38–46

Relationship between timing of development, morula morphology, and cell allocation to inner cell mass and trophectoderm in in vitro-produced bovine embryos. van Soom A, et al. **Mol Reprod Dev** 1997 May;47(1):47-56

Effects of impaired maternal insulin secretion on preimplantation embryo development in ICR mice. Rehák P, et al. **Physiol Res** 1996;45(6):453-8

The origin and efficient derivation of embryonic stem cells in the mouse. Brook FA, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5709-12

Production of identical sextuplet mice by transferring metaphase nuclei from four-cell embryos. Kwon OY, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13010-3

Functional growth hormone (GH) receptors and GH are expressed by preimplantation mouse embryos: a role for GH in early embryogenesis? Pantaleon M, et al.
Proc Natl Acad Sci U S A 1997 May 13;94(10):5125-30

The role of growth factors in preimplantation development. Kaye PL, et al. **Prog Growth Factor Res** 1995;6(1):1-24 (165 ref.)

Defects in the allocation of cells to the inner cell mass and trophectoderm of parthenogenetic mouse blastocysts. Mognetti B, et al. **Reprod Fertil Dev** 1996;8(8):1193-7

Effects of amino acids on development in vitro of cleavage-stage bovine embryos into blastocysts. Pinyopummintr T, et al. **Reprod Fertil Dev** 1996;8(5):835-41

The blastocyst epithelium is not a protoderm in dasyurid marsupials: a review of the evidence. Selwood L.
Reprod Fertil Dev 1996;8(4):711-23 (62 ref.)

Development in vitro of preimplantation embryos from 55 mouse strains. Suzuki O, et al. **Reprod Fertil Dev** 1996; 8(6):975-80

Morphological and functional characterization of bovine oviductal epithelial cell monolayers cultured on polarizing membranes. Gómez E, et al. **Reprod Nutr Dev** 1997; 37(2):151-62

There are no in vivo pulsations of mouse blastocysts. Checiu I, et al. **Rom J Morphol Embryol** 1996 Jul-Dec; 42(3-4):147-54

Noncytopathogenic and cytopathogenic bovine viral diarrhea-mucosal disease viruses do not affect in vitro embryonic development into the blastocyst stage. Tsuboi T, et al. **Vet Microbiol** 1996 Mar;49(1-2):127-134

Direct in-straw rehydration after thawing of vitrified in vitro produced bovine blastocysts. Vajta G, et al. **Vet Rec** 1995 Dec 23-30;137(26):672

Effect of inhibitors of DNA replication on early zebrafish embryos: evidence for coordinate activation of multiple intrinsic cell-cycle checkpoints at the mid-blastula transition. Ikegami R, et al. **Zygote** 1997 May;5(2):153-75

In vitro fertilisation of Chinese hamster oocytes by spermatozoa that have undergone ionophore A23187-induced acrosome reaction, and their subsequent development into blastocysts. Tateno H, et al. **Zygote** 1996 May;4(2):93-9

Expression of c-fos and c-jun proto-oncogenes by ovine preimplantation embryos. Wu B. **Zygote** 1996 Aug; 4(3):211-7

[Genetic diagnosis of the embryo before implantation] David G. **Bull Acad Natl Med** 1997 Feb;181(2):261-72; discussion 272-4 (24 ref.) (Eng. Abstr.) **(Fre)**

[From regional specification to cell differentiation in preimplantation mammalian development] Izquierdo L.
Arch Biol Med Exp (Santiago) 1986;19(3-4):279-300 (181 ref.) **(Spa)**

RADIATION EFFECTS

Effects of a 1.5-Tesla static magnetic field on spermatogenesis and embryogenesis in mice. Narra VR, et al. **Invest Radiol** 1996 Sep;31(9):586-90

Ionizing radiation induces apoptosis and elevates cyclin A1-Cdk2 activity before but not after the midblastula transition in Xenopus. Anderson JA, et al.
Mol Biol Cell 1997 Jul;8(7):1195-206

The embryonic and fetal effects in ICR mice irradiated in the various stages of the preimplantation period. Gu Y, et al. **Radiat Res** 1997 Jun;147(6):735-40

[Dynamics of ultrastructural morphology of the nucleolar apparatus in bovine preimplantation embryos collected in an area of chronic irradiation] Pivko J, et al.
Vet Med (Praha) 1997 Feb;42(2):33-8 (Eng. Abstr.) **(Slo)**

SECRETION

Secretion of leukaemia inhibiting factor by human endometrium alone and in co-cultures with embryos. Plachot M, et al. **Hum Reprod** 1996 Sep;11 Suppl 1:185-6; discussion 193-5

The role of albumin in the release of platelet-activating factor by mouse preimplantation embryos in vitro. Ammit AJ, et al. **J Reprod Fertil** 1997 Mar;109(2):309-18

Analysis of chorionic gonadotrophin secreted by cultured human blastocysts. Lopata A, et al. **Mol Hum Reprod** 1997 Jun;3(6):517-21

TRANSPLANTATION see EMBRYO TRANSFER

ULTRASTRUCTURE

Simultaneous enumeration of chromosomes 13, 18, 21, X, and Y in interphase cells for preimplantation genetic diagnosis of aneuploidy. Munné S, et al.
Cytogenet Cell Genet 1996;75(4):263-70

The cell nucleus in early bovine and caprine preimplantation embryos: fine structural cytochemistry and immunoelectron microscopy. Kopecny V, et al.
Eur J Cell Biol 1996 Aug;70(4):361-72

Preimplantation embryo chromosome analysis by primed in situ labeling method [published erratum appears in Fetil Steril 1997 Mar;67(3):591] Pellestor F, et al.
Fertil Steril 1996 Nov;66(5):781-6

Trophectoderm projections: a potential means for locomotion, attachment and implantation of bovine, equine and human blastocysts. Gonzales DS, et al.
Hum Reprod 1996 Dec;11(12):2739-45

Blastocyst development in co-culture: development and morphological aspects. Wiemer KE, et al. **Hum Reprod** 1995 Dec;10(12):3226-32

Analysis of the human zona pellucida during culture: correlation with diagnosis and the preovulatory hormonal environment. Loret De Mola JR, et al.
J Assist Reprod Genet 1997 Jul;14(6):332-6

Rapid chromosome detection in human gametes, zygotes, and preimplantation embryos using the PRINS technique. Pellestor F, et al. **J Assist Reprod Genet** 1996 Sep; 13(8):675-80

Expression of intercellular junctions during preimplantation development of the human embryo. Hardy K, et al.
Mol Hum Reprod 1996 Aug;2(8):621-32

The PRINS technique: potential use for rapid preimplantation embryo chromosome screening. Pellestor F, et al. **Mol Hum Reprod** 1996 Feb;2(2):135-8

Early cleavage to formation of the unilaminar blastocyst in the marsupial Antechinus stuartii: ultrastructure. Sathananthan H, et al. **Reprod Fertil Dev** 1997;9(2):201-12

[Dynamics of ultrastructural morphology of the nucleolar apparatus in bovine preimplantation embryos collected in an area of chronic irradiation] Pivko J, et al.
Vet Med (Praha) 1997 Feb;42(2):33-8 (Eng. Abstr.) **(Slo)**

VIROLOGY

Detection of exogenous DNA in blastocysts after continuous exposure to DNA carrier sperm. Chan PJ, et al.
J Assist Reprod Genet 1996 Aug;13(7):602-5

Noncytopathogenic and cytopathogenic bovine viral diarrhea-mucosal disease viruses do not affect in vitro embryonic development into the blastocyst stage. Tsuboi T, et al. **Vet Microbiol** 1996 Mar;49(1-2):127-134

BLASTOCYST TRANSFER see EMBRYO TRANSFER

BLASTOCYSTIS

CLASSIFICATION

Description of a Blastocystis species from Rattus norvegicus. Chen XQ, et al. **Parasitol Res** 1997;83(4):313-8

Axenic culture of reptilian Blastocystis isolates in monophasic medium and speciation by karyotypic typing. Singh M, et al. **Parasitol Res** 1996;82(2):165-9

GENETICS

Axenic culture of reptilian Blastocystis isolates in monophasic medium and speciation by karyotypic typing. Singh M, et al. **Parasitol Res** 1996;82(2):165-9

ISOLATION & PURIFICATION

A survey of Blastocystis sp. in rodents. Chen XQ, et al.
Lab Anim Sci 1997 Feb;47(1):91-4 (18 ref.)

ULTRASTRUCTURE

Morphological differences in Blastocystis cysts-an indication of different species? Stenzel DJ, et al. **Parasitol Res** 1997; 83(5):452-7

Sac-like pouches in Blastocystis from the house lizard Cosymbotus platyurus. Suresh K, et al. **Parasitol Res** 1997; 83(6):523-5

VIROLOGY

Virus-like particles in Blastocystis sp. from simian faecal material. Stenzel DJ, et al. **Int J Parasitol** 1997 Mar; 27(3):345-8

BLASTOCYSTIS HOMINIS

Hemorrhagic proctosigmoiditis and Blastocystis hominis [letter; comment] Yarze JC. **Ann Intern Med** 1996 Nov 15;125(10):860-1. Comment on: Ann Intern Med 1996 Jan 15;124(2):278-9.

Severe Blastocystis hominis in an elderly man. Levy Y, et al. **J Infect** 1996 Jul;33(1):57-9

Cryptosporidiosis and blastocystosis in renal transplant recipients. Ok UZ, et al. **Nephron** 1997;75(2):171-4

[Case report of colitis associated with Blastocystis hominis infection] Horiki N, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Sep;93(9):655-60 (29 ref.) **(Jpn)**

[A morphological study of blastocysts in lower monkeys using light microscopy] Sakharova TV, et al.
Med Parazitol (Mosk) 1997 Apr-Jun;(2):24-7 (Eng. Abstr.) **(Rus)**

[Clinical significance of Blastocystis hominis infection: epidemiologic study] Carbajal JA, et al.
Med Clin (Barc) 1997 Apr 26;108(16):608-12 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Identification of surface coat carbohydrates in Blastocystis hominis by lectin probes. Lanuza MD, et al.
Int J Parasitol 1996 May;26(5):527-32

Freeze-fracture cytochemistry of membrane cholesterol in Blastocystis hominis. Yoshikawa H, et al.
Int J Parasitol 1996 Oct;26(10):1111-4

CLASSIFICATION

Phylogenetic position of Blastocystis hominis that contains cytochrome-free mitochondria, inferred from the protein phylogeny of elongation factor 1 alpha. Nakamura Y, et al. **Mol Biochem Parasitol** 1996 May;77(2):241-5

CYTOLOGY

Phase-contrast microscopy of cell division in Blastocystis hominis. Zaman V. **Ann Trop Med Parasitol** 1997 Mar; 91(2):223-4

DRUG EFFECTS

In vitro response of Blastocystis hominis against traditional Chinese medicine. Yang LQ, et al. **J Ethnopharmacol** 1996 Dec;55(1):35-42

Resistance of blastocystis hominis cysts to chlorine. Zaki M, et al. **JPMA J Pak Med Assoc** 1996 Aug;46(8):178-9

Clonal growth of Blastocystis hominis in soft agar with sodium thioglycollate. Tan SW, et al. **Parasitol Res** 1996; 82(8):737-9

Resistance of Blastocystis hominis cysts to metronidazole. Zaman V, et al. **Trop Med Int Health** 1996 Oct;1(5):677-8

GENETICS

Karyotypic diversity among Blastocystis hominis isolates. Carbajal JA, et al. **Int J Parasitol** 1997 Aug;27(8):941-5

Extensive genetic diversity in Blastocystis hominis. Clark CG. **Mol Biochem Parasitol** 1997 Jul;87(1):79-83

Phylogenetic position of Blastocystis hominis that contains cytochrome-free mitochondria, inferred from the protein phylogeny of elongation factor 1 alpha. Nakamura Y, et al. **Mol Biochem Parasitol** 1996 May;77(2):241-5

Five subgroups of Blastocystis hominis from symptomatic and asymptomatic patients revealed by restriction site analysis of PCR-amplified 16S-like rDNA. Böhm-Gloning B, et al. **Trop Med Int Health** 1997 Aug;2(8):771-8

GROWTH & DEVELOPMENT

Description of an improved method for Blastocystis hominis culture and axenization. Lanuza MD, et al.
Parasitol Res 1997;83(1):60-3

Observations on the ultrastructure and viability of the cystic stage of Blastocystis hominis from human feces. Moe KT, et al. **Parasitol Res** 1996;82(5):439-44

IMMUNOLOGY

Significantly increased IgG2 subclass antibody levels to Blastocystis hominis in patients with irritable bowel syndrome. Hussain R, et al. **Am J Trop Med Hyg** 1997 Mar;56(3):301-6

Survival of Blastocystis hominis clones after exposure to a cytotoxic monoclonal antibody. Tan SW, et al.
Int J Parasitol 1997 Aug;27(8):947-54

ISOLATION & PURIFICATION

Epidemiologic survey of Blastocystis hominis infection in Japan. Horiki N, et al. **Am J Trop Med Hyg** 1997 Apr; 56(4):370-4

The diagnosis of Blastocystis hominis cysts in human faeces. Zaman V. **J Infect** 1996 Jul;33(1):15-6

Gastrointestinal parasite infections [letter; comment] Morgan D, et al. **Lancet** 1996 Oct 5;348(9032):965-6. Comment on: Lancet 1996 Jul 27;348(9022):272-3. Comment on: Lancet 1996 Jul 27;348(9022):273.

[Chronic diarrheic syndrome from Blastocystis hominis (letter)] Epelde Gonzalo F. **An Med Interna** 1996 Aug; 13(8):407-8 **(Spa)**

[Identification of Blastocystis hominis in concentrated fecal samples (letter; comment)] Villar J, et al.
Enferm Infecc Microbiol Clin 1996 Apr;14(4):273-4. Comment on: Enferm Infecc Microbiol Clin 1995 Oct;13(8):464-8. **(Spa)**

PATHOGENICITY

Blastocystis hominis revisited. Stenzel DJ, et al.
Clin Microbiol Rev 1996 Oct;9(4):563-84 (239 ref.)

Experimental Blastocystis hominis infection in laboratory mice. Moe KT, et al. **Parasitol Res** 1997;83(4):319-25

[Blastocystis hominis infection: a case report] Antonelli F, et al. **Minerva Pediatr** 1996 Dec;48(12):571-3 (Eng. Abstr.) **(Ita)**

ULTRASTRUCTURE

Observations on the ultrastructure and viability of the cystic stage of Blastocystis hominis from human feces. Moe KT,

BLASTOCYSTIS HOMINIS

et al. **Parasitol Res** 1996;82(5):439–44

Observations on the surface coat of Blastocystis hominis. Zaman V, et al. **Parasitol Res** 1997;83(7):731–3

Variation in the cyst morphology of Blastocystis hominis. Zaman V, et al. **Parasitol Res** 1997;83(3):306–8

A comparative morphology of Blastocystis hominis cysts with and without the "fibrillar layer". Zaman V, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):801–2

BLASTOCYSTIS INFECTIONS

Hemorrhagic proctosigmoiditis and Blastocystis hominis [letter; comment] Yarze JC. **Ann Intern Med** 1996 Nov 15;125(10):860–1. Comment on: Ann Intern Med 1996 Jan 15;124(2):278–9.

COMPLICATIONS

Significantly increased IgG2 subclass antibody levels to Blastocystis hominis in patients with irritable bowel syndrome. Hussain R, et al. **Am J Trop Med Hyg** 1997 Mar;56(3):301–6

Severe Blastocystis hominis in an elderly man. Levy Y, et al. **J Infect** 1996 Jul;33(1):57–9

[Case report of colitis associated with Blastocystis hominis infection] Horiki N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep;93(9):655–60 (29 ref.) **(Jpn)**

DIAGNOSIS

[Chronic diarrheic syndrome from Blastocystis hominis (letter)] Epelde Gonzalo F. **An Med Interna** 1996 Aug; 13(8):407–8 **(Spa)**

EPIDEMIOLOGY

Epidemiologic survey of Blastocystis hominis infection in Japan. Horiki N, et al. **Am J Trop Med Hyg** 1997 Apr; 56(4):370–4

Gastrointestinal parasite infections [letter; comment] Morgan D, et al. **Lancet** 1996 Oct 5;348(9032):965–6. Comment on: Lancet 1996 Jul 27;348(9022):272–3. Comment on: Lancet 1996 Jul 27;348(9022):273.

[Clinical significance of Blastocystis hominis infection: epidemiologic study] Carbajal JA, et al. **Med Clin (Barc)** 1997 Apr 26;108(16):608–12 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Blastocystis hominis revisited. Stenzel DJ, et al. **Clin Microbiol Rev** 1996 Oct;9(4):563–84 (239 ref.)

Cryptosporidiosis and blastocystosis in renal transplant recipients. Ok UZ, et al. **Nephron** 1997;75(2):171–4

PARASITOLOGY

Karyotypic diversity among Blastocystis hominis isolates. Carbajal JA, et al. **Int J Parasitol** 1997 Aug;27(8):941–5

Observations on the ultrastructure and viability of the cystic stage of Blastocystis hominis from human feces. Moe KT, et al. **Parasitol Res** 1996;82(5):439–44

Experimental Blastocystis hominis infection in laboratory mice. Moe KT, et al. **Parasitol Res** 1997;83(4):319–25

A comparative morphology of Blastocystis hominis cysts with and without the "fibrillar layer". Zaman V, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):801–2

Five subgroups of Blastocystis hominis from symptomatic and asymptomatic patients revealed by restriction site analysis of PCR-amplified 16S-like rDNA. Böhm-Gloning B, et al. **Trop Med Int Health** 1997 Aug;2(8):771–8

VETERINARY

A survey of Blastocystis sp. in rodents. Chen XQ, et al. **Lab Anim Sci** 1997 Feb;47(1):91–4 (18 ref.)

Morphological differences in Blastocystis cysts–an indication of different species? Stenzel DJ, et al. **Parasitol Res** 1997; 83(5):452–7

Blastocysts in game birds. Taylor MA, et al. **Vet Rec** 1996 Jun 22;138(25):624–5

[A morphological study of blastocysts in lower monkeys using light microscopy] Sakharova TV, et al. **Med Parazitol (Mosk)** 1997 Apr–Jun;(2):24–7 (Eng. Abstr.) **(Rus)**

BLASTOCYTES see **BLASTOMERES**

BLASTODERM

Magnetic resonance microscopy and spectroscopy reveal kinetics of cryoprotectant permeation in a multicompartmental biological system. Hagedorn M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7454–9

In vivo gene transfer into the blastoderm of early developmental stage of chicken. Inada S, et al. **Reprod Nutr Dev** 1997;37(1):13–20

CYTOLOGY

A cluster of noninvoluting endocytic cells at the margin of the zebrafish blastoderm marks the site of embryonic shield formation. Cooper MS, et al. **Dev Biol** 1996 Nov 25; 180(1):184–98

Map of the Anlage fields in the avian unincubated blastoderm. Callebaut M, et al. **Eur J Morphol** 1996 Dec; 34(5):347–61

Centriole and centrosome dynamics during the embryonic cell cycles that follow the formation of the cellular blastoderm in Drosophila. Callaini G, et al. **Exp Cell Res** 1997 Jul 10;234(1):183–90

Contributions to somatic and germline lineages of chicken blastodermal cells maintained in culture. Etches RJ, et al. **Mol Reprod Dev** 1996 Nov;45(3):291–8

Production of chicken chimeras from injection of frozen-thawed blastodermal cells. Kino K, et al. **Poult Sci** 1997 May;76(5):753–60

Spatial relationship between endophyll, primordial germ cells, sickle endoblast and upper layer in cultured avian blastoderms. Callebaut M, et al. **Reprod Nutr Dev** 1997 May–Jun;37(3):293–304

DRUG EFFECTS

Hapten inhibitors of the endogenous galactose binding lectins and anti-lectin antibodies inhibit primitive streak formation in the early chick embryo. Jeeva J, et al. **Glycobiology** 1996 Jul;6(5):517–26

METABOLISM

Evidence that MSL-mediated dosage compensation in Drosophila begins at blastoderm. Franke A, et al. **Development** 1996 Sep;122(9):2751–60

PHYSIOLOGY

Distribution of blastodermal cells transferred to chick embryos for chimera production using windowed eggs. Maeda T, et al. **Br Poult Sci** 1997 Jul;38(3):241–4

A cluster of noninvoluting endocytic cells at the margin of the zebrafish blastoderm marks the site of embryonic shield formation. Cooper MS, et al. **Dev Biol** 1996 Nov 25; 180(1):184–98

Avian gastrulation and neurulation are not impaired by the removal of the marginal zone at the unincubated blastoderm stage. Callebaut M, et al. **Eur J Morphol** 1997 Apr;35(2):69–77

External-anion-dependent anionic current in blastoderm cells of early medaka fish embryos. Shigemoto T, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):51–63

TRANSPLANTATION

Distribution of blastodermal cells transferred to chick embryos for chimera production using windowed eggs. Maeda T, et al. **Br Poult Sci** 1997 Jul;38(3):241–4

Map of the Anlage fields in the avian unincubated blastoderm. Callebaut M, et al. **Eur J Morphol** 1996 Dec; 34(5):347–61

BLASTOGENESIS see **LYMPHOCYTE TRANSFORMATION**

BLASTOKININ see **UTEROGLOBIN**

BLASTOMA, PULMONARY see **PULMONARY BLASTOMA**

BLASTOMERES

Development of mouse embryos following the destruction of blastomeres. Matte C, et al. **Arch Biol Med Exp (Santiago)** 1987;20(3–4):295–303

Twins raised from separated blastomeres develop into sexually mature Strongylocentrotus purpuratus [published erratum appears in Dev Biol 1997 Feb 1;182(1):204] Cameron RA, et al. **Dev Biol** 1996 Sep 15;178(2):514–9

Micromere formation at third cleavage is decisive for trochoblast specification in the embryogenesis of Patella vulgata. Damen WG, et al. **Dev Biol** 1996 Sep 15; 178(2):238–50

Changes in glycoconjugate-lectin binding characteristics of in vitro and in vivo mouse blastocysts. Legge M. **J Obstet Gynaecol Res** 1996 Jun;22(3):285–91

CHEMISTRY

Tight junctions in early amphibian development: detection of junctional cingulin from the 2-cell stage and its localization at the boundary of distinct membrane domains in dividing blastomeres in low calcium. Cardellini P, et al. **Dev Dyn** 1996 Sep;207(1):104–13

Review: preimplantation diagnosis of inherited disease. Lissens W, et al. **J Inherit Metab Dis** 1996;19(6):709–23 (80 ref.)

Nuclear structural conditions and PCR amplification in human preimplantation diagnosis. Cui KH, et al. **Mol Hum Reprod** 1996 Jan;2(1):63–71

CYTOLOGY

Ratio of inner cell mass and trophoblastic cells in blastocysts derived from porcine 4- and 8-cell embryos and isolated blastomeres cultured in vitro in the presence or absence of protein and human leukemia inhibitory factor. Eckert J, et al. **Biol Reprod** 1997 Sep;57(3):552–60

MEX-3 is a KH domain protein that regulates blastomere identity in early C. elegans embryos. Draper BW, et al. **Cell** 1996 Oct 18;87(2):205–16

Spatial and temporal controls target pal-1 blastomere-specification activity to a single blastomere lineage in C. elegans embryos. Hunter CP, et al. **Cell** 1996 Oct 18;87(2):217–26

Wnt signaling polarizes an early C. elegans blastomere to distinguish endoderm from mesoderm [see comments] Thorpe CJ, et al. **Cell** 1997 Aug 22;90(4):695–705. Comment in: Cell 1997 Aug 22;90(4):581–4.

Calcium, BOBs, QEDs, microdomains and a cellular decision: control of mitotic cell division in sand dollar blastomeres. Silver RB. **Cell Calcium** 1996 Aug;20(2):161–79 (99 ref.)

A contact-dependent animal-to-vegetal signal biases neural lineages during Xenopus cleavage stages. Bauer DV, et al. **Dev Biol** 1996 Sep 15;178(2):217–28

Alteration of cell cycle timing and induction of surface instability in starfish blastomeres microinjected with antibodies to spectrin. Wong GK, et al. **Dev Biol** 1996 Nov 25;180(1):199–212

The allocation of early blastomeres to the ectoderm and endoderm is variable in the sea urchin embryo. Logan CY, et al. **Development** 1997 Jun;124(11):2213–23

Reassessing embryogenesis in the Ctenophora: the inductive role of e1 micromeres in organizing ctene row formation in the 'mosaic' embryo, Mnemiopsis leidyi. Martindale MQ, et al. **Development** 1997 May;124(10):1999–2006

Cell-cell association directed mitotic spindle orientation in the early development of the marine shrimp Sicyonia ingentis. Wang SW, et al. **Development** 1997 Feb; 124(4):773–80

Following cell fate in the living mouse embryo. Zernicka-Goetz M, et al. **Development** 1997 Mar; 124(6):1133–7

Establishment of an embryonic stem cell line from 8-cell stage mouse embryos. Delhaise F, et al. **Eur J Morphol** 1996 Nov;34(4):237–43

Reliable sex determination of mouse preimplantation embryos by PCR amplification of male-specific genes in single blastomeres. Tangchaisin P, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S78–87

Synchronization of cell division in eight-cell bovine embryos produced in vitro: effects of 6-dimethylaminopurine. Samaké S, et al. **J Reprod Fertil** 1997 May;110(1):21–7

Developmental ability of mouse late 2-cell stage blastomeres fused to chemically enucleated oocytes in vitro. Elsheikh AS, et al. **J Vet Med Sci** 1997 Feb;59(2):107–13

Influence of oocyte aging on developmental ability of reconstituted embryos produced from oocyte cytoplast and single blastomeres of two-cell stage embryos. Taniguchi T, et al. **J Vet Med Sci** 1996 Jul;58(7):635–40

Cell-lineage and clonal-contribution map of the trochophore larva of Patella vulgata (mollusca). Dictus WJ, et al. **Mech Dev** 1997 Mar;62(2):213–26

Morphological changes of in-vitro-produced bovine blastocysts after vitrification, in-straw direct rehydration, and culture. Vajta G, et al. **Mol Reprod Dev** 1997 Sep; 48(1):9–17

The behaviour of mitochondria and cell integration during somatic hybridisation of sister blastomeres of the 2-cell mouse embryo. Sekirina GG, et al. **Zygote** 1997 May; 5(2):97–103

DRUG EFFECTS

Ratio of inner cell mass and trophoblastic cells in blastocysts derived from porcine 4- and 8-cell embryos and isolated blastomeres cultured in vitro in the presence or absence of protein and human leukemia inhibitory factor. Eckert J, et al. **Biol Reprod** 1997 Sep;57(3):552–60

Microtubule dependence of chromosome cycles in Xenopus laevis blastomeres under the influence of a DNA synthesis inhibitor, aphidicolin. Clute P, et al. **Dev Biol** 1997 May 1;185(1):1–13

Ouabain sensitivity and expression of Na/K-ATPase alpha- and beta-subunit isoform genes during bovine early development. Betts DH, et al. **Mol Reprod Dev** 1997 Feb; 46(2):114–26

Influence of "Solcoseryl" during culture on the sex-dependent repair of bovine demi-embryos. Tominaga K, et al. **Mol Reprod Dev** 1996 Mar;43(3):331–5

IMMUNOLOGY

Management of rhesus isoimmunization by preimplantation genetic diagnosis. Avner R, et al. **Mol Hum Reprod** 1996 Jan;2(1):60–2

METABOLISM

Characteristics of actin fibers and ultrastructure of the contact regions involved in the separation of blastomeres of two-cell mouse embryos, frozen-thawed without the zona pellucida. Martí M, et al. **Cryobiology** 1997 Mar; 34(2):94–106

The C. elegans MEX-1 protein is present in germline blastomeres and is a P granule component. Guedes S, et al. **Development** 1997 Feb;124(3):731–9

Expression of the gap junction proteins connexin31 and connexin43 correlates with communication compartments in extraembryonic tissues and in the gastrulating mouse embryo, respectively. Dahl E, et al. **J Cell Sci** 1996 Jan; 109 (Pt 1):191–7

Analysis of heterologous gene expression in Xenopus blastomeres. Moody SA. **Methods Mol Biol** 1997;62:271–84

RT-PCR-based method to localize the spatial expression of genes in the mouse blastocyst. Brison DR, et al. **Mol Reprod Dev** 1996 Jun;44(2):171-8

PATHOLOGY

The presence of multinucleated blastomeres in human embryos is correlated with chromosomal abnormalities. Kligman I, et al. **Hum Reprod** 1996 Jul;11(7):1492-8

Preimplantation development of mouse and human embryos biopsied at cleavage stages using a modified displacement technique. Pierce KE, et al. **Hum Reprod** 1997 Feb; 12(2):351-6

PHYSIOLOGY

Polarized distribution of L-type calcium channels in early sea urchin embryos. Dale B, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 1):C822-5

Comparison of effects of albendazole sulfoxide on in vitro produced bovine embryos and rat embryos. Piscopo SE, et al. **Am J Vet Res** 1997 Sep;58(9):1038-42

Alteration of cell cycle timing and induction of surface instability in starfish blastomeres microinjected with antibodies to spectrin. Wong GK, et al. **Dev Biol** 1996 Nov 25;180(1):199-212

Developmental acquisition of enhancer function requires a unique coactivator activity. Majumder S, et al. **EMBO J** 1997 Apr 1;16(7):1721-31

Blastocyst formation following intracytoplasmic injection of in-vitro derived spermatids into bovine oocytes. Goto K, et al. **Hum Reprod** 1996 Apr;11(4):824-9

A simplified technique for embryo biopsy: use of the same micropipette for zona drilling and blastomere aspiration. Chen SU, et al. **J Assist Reprod Genet** 1997 Mar; 14(3):157-61

Preimplantation diagnosis of alpha-thalassemia by blastomere aspiration and polymerase chain reaction: preliminary experience. Chang MY, et al. **J Formos Med Assoc** 1996 Mar;95(3):203-8

Coamplification of the ZFX and ZFY genes for sex identification in preimplantation embryos. Kuo PL, et al. **J Formos Med Assoc** 1996 Aug;95(8):612-6

Developmental ability of mouse late 2-cell stage blastomeres fused to chemically enucleated oocytes in vitro. Elsheikh AS, et al. **J Vet Med Sci** 1997 Feb;59(2):107-13

Influence of oocyte aging on developmental ability of reconstituted embryos produced from oocyte cytoplast and single blastomeres of two-cell stage embryos. Taniguchi T, et al. **J Vet Med Sci** 1996 Jul;58(7):635-40

Adaptation of the primer extension preamplification (PEP) reaction for preimplantation diagnosis: single blastomere analysis using short PEP protocols. Sermon K, et al. **Mol Hum Reprod** 1996 Mar;2(3):209-12

Metabolism and cell allocation during parthenogenetic preimplantation mouse development. Hardy K, et al. **Mol Reprod Dev** 1996 Mar;43(3):313-22

Electrofusion parameters for nuclear transfer predicted using isofusion contours produced with bovine embryonic cells. Tatham BG, et al. **Mol Reprod Dev** 1996 Mar;43(3):306-12

ULTRASTRUCTURE

Characteristics of actin fibers and ultrastructure of the contact regions involved in the separation of blastomeres of two-cell mouse embryos, frozen-thawed without the zona pellucida. Martí M, et al. **Cryobiology** 1997 Mar; 34(2):94-106

The frequency and developmental capability of human embryos containing multinucleated blastomeres. Balakier H, et al. **Hum Reprod** 1997 Apr;12(4):800-4

Transcriptional activity and nucleolar ultrastructure of embryonic rabbit nuclei after transplantation to enucleated oocytes. Kaňka J, et al. **Mol Reprod Dev** 1996 Feb; 43(2):135-44

BLASTOMYCES

Case report: Blastomyces dermatitidis as a cause of middle lobe syndrome. Kinzy JD, et al. **Am J Med Sci** 1996 Oct; 312(4):191-3

CLASSIFICATION

Ajellomyces crescens sp. nov., taxonomy of Emmonsia spp., and relatedness with Blastomyces dermatitidis (teleomorph Ajellomyces dermatitidis). Sigler L. **J Med Vet Mycol** 1996 Sep-Oct;34(5):303-14

DRUG EFFECTS

In vitro and in vivo activities of SCH 56592 against Blastomyces dermatitidis. Sugar AM, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1314-6

GENETICS

Transforming DNA integrates at multiple sites in the dimorphic fungal pathogen Blastomyces dermatitidis. Hogan LH, et al. **Gene** 1997 Feb 28;186(2):219-26

IMMUNOLOGY

Recombinant Coccidioides immitis complement-fixing antigen: detection of an epitope shared by C. immitis, Histoplasma capsulatum, and Blastomyces dermatitidis. Yang MC, et al. **Clin Diagn Lab Immunol** 1997 Jan; 4(1):19-22

African strains of Blastomyces dermatitidis that do not express surface adhesin WI-1. Klein BS, et al. **Infect Immun** 1997 Apr;65(4):1505-9

Activation, binding, and processing of complement component 3 (C3) by Blastomyces dermatitidis. Zhang MX, et al. **Infect Immun** 1997 May;65(5):1849-55

ISOLATION & PURIFICATION

Blastomycosis in children [see comments] Schutze GE, et al. **Clin Infect Dis** 1996 Mar;22(3):496-502. Comment in: Clin Infect Dis 1996 Oct;23(4):853-4.

Dissemination of pulmonary blastomycosis after thoracotomy. Arabi Y, et al. **Diagn Microbiol Infect Dis** 1996 Sep;26(1):35-7

METABOLISM

Activation, binding, and processing of complement component 3 (C3) by Blastomyces dermatitidis. Zhang MX, et al. **Infect Immun** 1997 May;65(5):1849-55

PATHOGENICITY

Virulence factors of medically important fungi. Hogan LH, et al. **Clin Microbiol Rev** 1996 Oct;9(4):469-88 (326 ref.)

Transforming DNA integrates at multiple sites in the dimorphic fungal pathogen Blastomyces dermatitidis. Hogan LH, et al. **Gene** 1997 Feb 28;186(2):219-26

Role of cell-surface molecules of Blastomyces dermatitidis in host-pathogen interactions. Klein BS, et al. **Trends Microbiol** 1996 Jun;4(6):246-51 (40 ref.)

BLASTOMYCOSIS

COMPLICATIONS

Case report: Blastomyces dermatitidis as a cause of middle lobe syndrome. Kinzy JD, et al. **Am J Med Sci** 1996 Oct; 312(4):191-3

Blastomycosis-induced respiratory failure: the successful application of continuous positive airway pressure. Booker KJ. **Heart Lung** 1996 Sep-Oct;25(5):384-7

Blastomycosis-like pyoderma in a man with AIDS. Crowley JJ, et al. **J Am Acad Dermatol** 1997 Apr;36(4):633-4

Pulmonary blastomycosis with acute respiratory failure as predominant clinical feature. Mukkamala R, et al. **South Med J** 1997 Aug;90(8):847-50

Disseminated Blastoschizomyces capitatus infection in acute myeloblastic leukaemia. Report of three cases. Sanz MA, et al. **Support Care Cancer** 1996 Jul;4(4):291-3 (14 ref.)

DIAGNOSIS

Blastomycotic osteomyelitis of the pelvis: a case report. Blais RE, et al. **Am Surg** 1997 May;63(5):414-6

North American blastomycosis of the vertebrae in an adolescent [letter; comment] Challapalli M, et al. **Clin Infect Dis** 1996 Oct;23(4):853-4. Comment on: Clin Infect Dis 1996 Mar;22(3):496-502.

North American blastomycosis: the importance of a differential diagnosis. Shah B, et al. **Cutis** 1996 Dec; 58(6):402-4 (2 ref.)

Dissemination of pulmonary blastomycosis after thoracotomy. Arabi Y, et al. **Diagn Microbiol Infect Dis** 1996 Sep;26(1):35-7

Intracranial blastomycosis presenting as a suprasellar mass: MR findings. Mohazab HR, et al. **J Comput Assist Tomogr** 1997 Sep-Oct;21(5):845-7

Blastomycosis. Kuzo RS, et al. **Semin Roentgenol** 1996 Jan; 31(1):45-51 (26 ref.)

DRUG THERAPY

In vitro and in vivo activities of SCH 56592 against Blastomyces dermatitidis. Sugar AM, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1314-6

Long-term observation of a case of cutaneous blastomycosis in Poland treated with fluconazole. Chodorowska G, et al. **Mycoses** 1996 Jul-Aug;39(7-8):283-7

ETIOLOGY

Possible transmission of Blastomycosis dermatitidis via culture specimen [letter; comment] Côté E, et al. **J Am Vet Med Assoc** 1997 Feb 15;210(4):479-80. Comment on: J Am Vet Med Assoc 1997 Feb 15;210(4):502-4.

Blastomycosis of the eyelid [see comments] Bartley GB. **Ophthalmology** 1995 Dec;102(12):2020-3. Comment in: Ophthalmology 1995 Dec;102(12):2020-3.

Role of cell-surface molecules of Blastomyces dermatitidis in host-pathogen interactions. Klein BS, et al. **Trends Microbiol** 1996 Jun;4(6):246-51 (40 ref.)

MICROBIOLOGY

Blastomycosis in children [see comments] Schutze GE, et al. **Clin Infect Dis** 1996 Mar;22(3):496-502. Comment in: Clin Infect Dis 1996 Oct;23(4):853-4.

Funguria in cancer patients: analysis of risk factors, clinical presentation and outcome in 50 patients. Oravcova E, et al. **Infection** 1996 Jul-Aug;24(4):319-23

Images in clinical medicine. Blastomycosis. Wallen EB, et al. **N Engl J Med** 1997 Apr 24;336(17):1223

PATHOLOGY

Primary cutaneous inoculation blastomycosis with some unusual features [letter] Sharma AK, et al. **Australas J Dermatol** 1997 May;38(2):101-2

Disseminated blastomycosis and acquired immunodeficiency syndrome: a case report and ultrastructural study. Guccion JG, et al. **Ultrastruct Pathol** 1996 Sep-Oct;20(5):429-35

VETERINARY

Ocular blastomycosis in dogs: 73 cases, 108 eyes (1985-1993). Bloom JD, et al. **J Am Vet Med Assoc** 1996 Oct 1; 209(7):1271-4

Blastomycosis in six dogs in New York state [see comments] Côté E, et al. **J Am Vet Med Assoc** 1997 Feb 15; 210(4):502-4. Comment in: J Am Vet Med Assoc 1997 Feb 15;210(4):479-80.

Use of an amphotericin B lipid complex for treatment of blastomycosis in dogs. Krawiec DR, et al. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2073-5

Chronic localized osteomyelitis caused by atypical infection with Blastomyces dermatitidis in a dog. Marcellin-Little DJ, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1877-9

Pulmonary blastomycosis in an Indian fruit bat (Pteropus giganteus). Raymond JT, et al. **J Vet Diagn Invest** 1997 Jan;9(1):85-7

Treatment of blastomycosis with itraconazole in 112 dogs. Legendre AM, et al. **J Vet Intern Med** 1996 Nov-Dec; 10(6):365-71

BLASTOMYCOSIS, NORTH AMERICAN see **BLASTOMYCOSIS**

BLASTOMYCOSIS, SOUTH AMERICAN see **PARACOCCIDIOIDOMYCOSIS**

BLASTOPORE see **GASTRULA**

BLASTULA see **BLASTOCYST**

BLEEDING see **HEMORRHAGE**

BLEEDING ON PROBING, GINGIVAL see **PERIODONTAL INDEX**

BLEEDING TIME

Effect of iodixanol on in vitro bleeding time. Melton LG, et al. **Acad Radiol** 1996 May;3(5):407-11

Prolongation of bleeding time by acute hemolysis in rats: a role for nitric oxide. Wollny T, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2875-84

A comparison of the effects of aspirin on bleeding time measured using the Simplate method and closure time measured using the PFA-100, in healthy volunteers. Marshall PW, et al. **Br J Clin Pharmacol** 1997 Aug; 44(2):151-5

Low-molecular-weight heparin (fragmin) and thrombin active-site inhibitor (argatroban) compared in experimental arterial and venous thrombosis and bleeding time. Schumacher WA, et al. **J Cardiovasc Pharmacol** 1996 Jul; 28(1):19-25

Prolonged bleeding time: a new clinical manifestation of hepatocellular carcinoma? Chu CJ, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):563-8

Nonpeptide glycoprotein IIb/IIIa inhibitors. 15. Antithrombotic efficacy of L-738,167, a long-acting GPIIb/IIIa antagonist, correlates with inhibition of adenosine diphosphate-induced platelet aggregation but not with bleeding time prolongation. Cook JJ, et al. **J Pharmacol Exp Ther** 1997 May;281(2):677-89

Bleeding time and platelet function in essential thrombocythemia and other myeloproliferative syndromes. Finazzi G, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:71-8 (88 ref.)

Dose-related effects of low dose aspirin on hemostasis parameters and prostacyclin/thromboxane ratios in late pregnancy. Martin C, et al. **Prostaglandins** 1996 May; 51(5):321-30

The thrombocytopenic rabbit bleeding time model to evaluate the in vivo hemostatic efficacy of platelets and platelet substitutes. Blajchman MA, et al. **Transfus Med Rev** 1997 Apr;11(2):95-105 (51 ref.)

[Bleeding time] Sakuragawa N. **Nippon Rinsho** 1997 Mar;55 Suppl 1:118-22 (11 ref.) **(Jpn)**

[Measurement of blood loss and bleeding pattern from the bleeding time incision] Tamai Y, et al. **Rinsho Ketsueki** 1997 Apr;38(4):306-9 **(Jpn)**

[Bleeding time indication in invasive and surgical interventions] Sandset PM, et al. **Tidsskr Nor Laegeforen** 1997 Jan 20;117(2):191 **(Nor)**

BLENNORRHEA, INCLUSION see **CONJUNCTIVITIS, INCLUSION**

BLEOMYCIN

Transforming growth factors-beta 1, -beta 2, and -beta 3 stimulate fibroblast procollagen production in vitro but are differentially expressed during bleomycin-induced lung fibrosis. Coker RK, et al. **Am J Pathol** 1997 Mar; 150(3):981-91

Keratinocyte growth factor ameliorates radiation- and bleomycin-induced lung injury and mortality. Yi ES, et al. **Am J Pathol** 1996 Dec;149(6):1963-70

Polymerization of fibrinogen in murine bleomycin-induced lung injury. Olman MA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L519-26

C-C chemokines: novel mediators of the profibrotic inflammatory response to bleomycin challenge. Smith RE, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):693-702 (122 ref.)

Increased surface tension of the lung and surfactant in bleomycin-induced pulmonary fibrosis in rats. Horiuchi T, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):1002-5

Prevention of bleomycin-induced pulmonary fibrosis after adenovirus-mediated transfer of the bacterial bleomycin resistance gene. Tran PL, et al. **J Clin Invest** 1997 Feb 15;99(4):608-17

ADMINISTRATION & DOSAGE

A new method of intralesional bleomycin therapy in the treatment of recalcitrant warts. Munn SE, et al. **Br J Dermatol** 1996 Dec;135(6):969-71

Electropermeabilization in bladder cancer chemotherapy. Kubota Y, et al. **Cancer Chemother Pharmacol** 1996; 39(1-2):67-70

Enhancement of therapeutic efficacy of bleomycin by incorporation into biodegradable poly-d,l-lactic acid. Kumanohoso T, et al. **Cancer Chemother Pharmacol** 1997; 40(2):112-6

Anti-tumor effectiveness of electrochemotherapy with bleomycin is increased by TNF-alpha on SA-1 tumors in mice. Sersa G, et al. **Cancer Lett** 1997 Jun 3;116(1):85-92

Prospective randomized trial of talc slurry vs bleomycin in pleurodesis for symptomatic malignant pleural effusions. Zimmer PW, et al. **Chest** 1997 Aug;112(2):430-4

A new treatment with bleomycin for complicated cutaneous hemangioma in children. Sarihan H, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):158-62

Treatment of cancer using pulsed electric field in combination with chemotherapeutic agents or genes. Nishi T, et al. **Hum Cell** 1997 Mar;10(1):81-6

Toxicity and antitumor activity of niosomal bleomycin in tumor bearing mice. Naresh RA, et al. **Indian J Exp Biol** 1996 Aug;34(8):764-72

Advanced epidemic Kaposi's sarcoma: treatment with bleomycin or combination of doxorubicin, bleomycin, and vincristine. Hernández DE, et al. **Int J Dermatol** 1996 Nov; 35(11):831-3

Dermatography with bleomycin as a new treatment for verrucae vulgaris. van der Velden EM, et al. **Int J Dermatol** 1997 Feb;36(2):145-50

Effective treatment of B16 melanoma by direct delivery of bleomycin using electrochemotherapy. Heller R, et al. **Melanoma Res** 1997 Feb;7(1):10-8

ADVERSE EFFECTS

Lung interleukin-5 expression in murine bleomycin-induced pulmonary fibrosis. Gharaee-Kermani M, et al. **Am J Respir Cell Mol Biol** 1997 Apr;16(4):438-47

A statistical analysis of the reliability and classification error in application of the mutagen sensitivity assay. Lee JJ, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):191-7

Transgenic mice expressing the Sh ble bleomycin resistance gene are protected against bleomycin-induced pulmonary fibrosis. Weinbach J, et al. **Cancer Res** 1996 Dec 15; 56(24):5659-65

Pulmonary toxicity in patients with advanced-stage germ cell tumors receiving bleomycin with and without granulocyte colony stimulating factor. Saxman SB, et al. **Chest** 1997 Mar;111(3):657-60

Reduction of bleomycin-induced acute DNA injury in the rat lung by the 21-aminosteroid, U-74389G. Dallessio JJ, et al. **Crit Care Med** 1997 Apr;25(4):652-6

Integrin alpha E beta 7 expression on BAL CD4+, CD8+, and gamma delta T-cells in bleomycin-induced lung fibrosis in mouse. Braun RK, et al. **Eur Respir J** 1996 Apr; 9(4):673-9

Bleomycin and cyclophosphamide toxicity simulating metastatic nodules to the lungs in childhood cancer. Ben Arush MW, et al. **Pediatr Hematol Oncol** 1997 Jul-Aug; 14(4):381-6

[Bleomycin-induced pneumonia] Berger K, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Nov; 31(9):577-81 (Eng. Abstr.) **(Ger)**

ANALOGS & DERIVATIVES

Squamous cell cancer cell lines: sensitivity to bleomycin and suitability for animal xenograft studies. Jääskelä-Saari HA, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:241-4

Fe- and Co-bleomycins bound to site specific and nonspecific DNA decamers: comparative binding and reactivity of their metal centers. Fulmer P, et al. **Biochemistry** 1997 Apr 8;36(14):4367-74

Mapping of the cleavage-associated bleomycin binding site on DNA with a new method based on site-specific blockage of the minor groove with N2-isobutyrylguanine. Suh D, et al. **Biochemistry** 1997 Apr 8;36(14):4248-57

Solution structure studies of the cobalt complex of a bleomycin functional model bound to d(CGCAATTGCG)2 by two-dimensional nuclear magnetic resonance methods and restrained molecular dynamics simulation. Yang Y, et al. **Bioconjug Chem** 1996 Nov-Dec;7(6):670-9

On the chemistry of RNA degradation by Fe.bleomycin. Holmes CE, et al. **Bioorg Med Chem** 1997 Jun;5(6):1235-48

Biokinetics of indium-111-bleomycin complex in head and neck cancer--implementations for radiochemotherapy. Kairemo KJ, et al. **Cancer Detect Prev** 1997;21(1):83-90

A model of the structure of HOO-Co.bleomycin bound to d(CCAGTACTGG): recognition at the d(GpT) site and implications for double-stranded DNA cleavage. Vanderwall DE, et al. **Chem Biol** 1997 May;4(5):373-87

Indium-111 bleomycin complex for radiochemotherapy of head and neck cancer--dosimetric and biokinetic aspects [published erratum appears in Eur J Nucl Med 1997 Feb;24(2):235] Kairemo KJ, et al. **Eur J Nucl Med** 1996 Jun;23(6):631-8

Measurement of hydroxyl radicals catalyzed in the immediate vicinity of DNA by metal-bleomycin complexes. Chakrabarti S, et al. **Free Radic Biol Med** 1996;20(6):777-83

Altered cleavage of DNA sequences by bleomycin and its deglycosylated derivative in the presence of actinomycin. Bailly C, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1516-22

Fe.bleomycin as a probe of RNA conformation. Holmes CE, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3399-406

[Phase I clinical study of a new anticancer drug boanmycin] Feng F, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):143-6 (Eng. Abstr.) **(Chi)**

[Cytotoxic properties of the complex of the antineoplastic antibiotic bleomycetin and Bacillus intermedius ribonuclease] Kalacheva NV, et al. **Antibiot Khimioter** 1997;42(4):16-20 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Effect of nordihydroguaiaretic acid and ibuprofen on bleomycin and hyperoxia-induced changes in lung superoxide dismutase, prostaglandins and lethality. Giri SN, et al. **Arch Toxicol** 1996;70(5):271-6

Ascorbic acid and beta-carotene as modulators of oxidative damage. Cozzi R, et al. **Carcinogenesis** 1997 Jan;18(1):223-8

[Pentoxifylline inhibits experimental bleomycin-induced fibrosing alveolitis] Entzian P, et al. **Pneumologie** 1997 Apr; 51(4):375-80 (Eng. Abstr.) **(Ger)**

BLOOD

Is bleomycin-detectable iron present in the plasma of patients with sepsis syndrome? [editorial; comment] Weinberg ED. **Intensive Care Med** 1997 Jun;23(6):613-4. Comment on: Intensive Care Med 1997 Jun;23(6):635-9.

CHEMISTRY

NMR studies of the paramagnetic complex Fe(II)-bleomycin. Lehmann TE, et al. **Biochemistry** 1997 Mar 11; 36(10):2807-16

Altered cleavage of DNA sequences by bleomycin and its deglycosylated derivative in the presence of actinomycin. Bailly C, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1516-22

DIAGNOSTIC USE

Imaging and staging of head and neck cancer using a low pH In-111-bleomycin complex. Kairemo KJ, et al. **Eur J Cancer B Oral Oncol** 1996 Sep;32B(5):311-21

METABOLISM

Mapping of the cleavage-associated bleomycin binding site on DNA with a new method based on site-specific blockage of the minor groove with N2-isobutyrylguanine. Suh D, et al. **Biochemistry** 1997 Apr 8;36(14):4248-57

A new method for permeabilization of the plasma membrane of cultured mammalian cells. II. Mechanism for potentiation of bleomycin cytotoxicity by vortex-stirring with high molecular weight polyacrylic acid. Shimizu N, et al. **Biol Pharm Bull** 1996 Jun;19(6):805-8

CC-1065/duocarmycin and bleomycin A2 hybrid agents: lack of enhancement of DNA alkylation by attachment to noncomplementary DNA binding subunits. Boger DL, et al. **Bioorg Med Chem** 1997 Feb;5(2):233-43

Production of bleomycin N-acetyltransferase in Escherichia coli and Streptomyces verticillus. Matsuo H, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):83-8

PHARMACOLOGY

Characteristics of mutagenesis by bleomycin and adriamycin in salmonella typhimurium: action of superoxide dismutase. Ejchart A, et al. **Acta Pol Pharm** 1996 Jan-Feb;53(1):13-7

Chemotherapy-induced apoptosis. Mesner PW Jr, et al. **Adv Pharmacol** 1997;41:461-99 (268 ref.)

Contribution of T lymphocytes to the development of bleomycin-induced pulmonary fibrosis. Zhu J, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:194-202

Some repair-deficient mutants of Dictyostelium discoideum display enhanced susceptibilities to bleomycin. Deering RA, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):464-7

Synergetic cytotoxicity of bleomycin and polyhydric alcohols: DNA strand breakage evaluated by "comet assay". Kasamatsu T, et al. **Biol Pharm Bull** 1996 Apr;19(4):632-5

A Saccharomyces cerevisiae mutant defines a new locus essential for resistance to the antitumour drug bleomycin. Ramotar D, et al. **Can J Microbiol** 1996 Aug;42(8):835-43

Cytotoxicity of bleomycin and external radiation in squamous cell cancer cell lines of head and neck. Jääskelä-Saari HA, et al. **Cancer Detect Prev** 1996;20(4):279-84

Mutagen sensitivity exhibits a dose-response relationship in case-control studies. Wu X, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):577-8

Survival of cells with bleomycin-induced chromosomal lesions in the cultured lymphocytes of lung cancer patients. Wu XF, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul; 5(7):527-32

Bleomycin-induced differentiation of bcl-2-transfected U937 leukemia cells. Guedez L, et al. **Cell Growth Differ** 1996 Dec;7(12):1625-31

Effect of electric pulses and antiproliferative drugs on cultured bovine retinal pigment epithelial cells. Oshima Y, et al. **Curr Eye Res** 1997 Jan;16(1):64-70

Functional mitochondria are essential for Saccharomyces cerevisiae cellular resistance to bleomycin. He CH, et al. **Curr Genet** 1996 Sep;30(4):279-83

Changes of hydroxyproline levels in myocardium after chronic administration of bleomycin. Anasiewicz A, et al. **Folia Morphol (Warsz)** 1996;55(4):206-7

Bleomycin: revival of an old drug. Mir LM, et al. **Gen Pharmacol** 1996 Jul;27(5):745-8 (30 ref.)

Baculovirus immediate-early promoter-mediated expression of the Zeocin resistance gene for use as a dominant selectable marker in dipteran and lepidopteran insect cell lines. Pfeifer TA, et al. **Gene** 1997 Apr 1;188(2):183-90

Enhancement of chemotherapeutic effects with focused shock waves: extracorporeal shock wave chemotherapy (ESWC). Kambe M, et al. **Hum Cell** 1997 Mar;10(1):87-94

Cell-specific expression of the alpha 1 (I) collagen promoter-CAT transgene in skin and lung: a response to TGF-beta subcutaneous injection and bleomycin endotracheal instillation. Agarwal AR, et al. **J Cell Biochem** 1996 Nov 1;63(2):135-48

Drug-induced apoptosis in hepatoma cells is mediated by the CD95 (APO-1/Fas) receptor/ligand system and involves activation of wild-type p53. Müller M, et al. **J Clin Invest** 1997 Feb 1;99(3):403-13

The effects of combined treatments with low hyperthermia and bleomycin on survivals of murine L cells. Shioura H, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):147-52

A case of bleomycin-induced scleroderma. Kim KH, et al. **J Korean Med Sci** 1996 Oct;11(5):454-6

Cross-sensitivity of X-ray-hypersensitive cells derived from LEC strain rats to DNA-damaging agents. Okui T, et al. **J Vet Med Sci** 1996 Nov;58(11):1067-71

Bleomycin-induced lung injury is enhanced by interferon-alpha. Berkman N, et al. **Life Sci** 1997; 60(26):PL415-21

Modulation of the clastogenic activity of bleomycin by reduced-glutathione, glutathione-ester and buthionine sulphoximine. Chattopadhyay A, et al. **Mutagenesis** 1997 Jul;12(4):221-5

The effect of butylated hydroxytoluene on the chromosomal damage induced by bleomycin in Chinese hamster ovary cells. Grillo CA, et al. **Mutat Res** 1997 Apr 14;375(1):83-9

Frequencies of polycentric chromosomes following combinational treatments of Chinese hamster ovary cells with restriction endonucleases and X-rays, bleomycin or DNase I. Johannes C, et al. **Mutat Res** 1997 Feb 3; 373(2):237-44

Chromosomal breakage correlates with delayed lethality in normal and ataxia telangiectasia cell lines treated with bleomycin. MacLeod RA, et al. **Mutat Res** 1996 Nov 11; 372(1):33-42

Chlorambucil and bleomycin induce mutations in the specific-locus test in female mice. Russell LB, et al. **Mutat Res** 1996 Oct 28;358(1):25-35

Effects of hypoxanthine substitution on bleomycin-mediated DNA strand degradation in DNA-RNA hybrids. Bansal M, et al. **Nucleic Acids Res** 1997 May 1;25(9):1846-53

[The evaluation of adenosine triphosphate bioluminescence assay for chemosensitivity testing of ovarian cancer cell line] Shi W, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Feb;31(2):79-82 (Eng. Abstr.) **(Chi)**

[Molecular design of apoptosis inducing agents derived from bleomycin] Umezawa K, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):412-7 (16 ref.) (Eng. Abstr.) **(Jpn)**

[The genetic activity of superlow doses of antitumor antibiotics and 2-nitrofluorene: the ecological aspects of the problem] Vasil'eva SV, et al. **Izv Akad Nauk Ser Biol** 1996 Nov-Dec;(6):676-80 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Comparison of intratumoral administration of cisplatin versus bleomycin for treatment of periocular squamous cell carcinomas in horses. Théon AP, et al. **Am J Vet Res** 1997 Apr;58(4):431-6

Electrochemotherapy with bleomycin in SA-1 tumor-bearing mice--natural resistance and immune responsiveness. Serša G, et al. **Anticancer Drugs** 1996 Sep; 7(7):785-91

Bleomycin therapy of experimental disseminated candidiasis in mice. Graybill JR, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):816-8

Bleomycin-mediated electrochemotherapy of metastatic melanoma. Glass LF, et al. **Arch Dermatol** 1996 Nov;

132(11):1353–7
A new method for permeabilization of the plasma membrane of cultured mammalian cells. VI. Enhanced cytotoxicity of bleomycin toward leukemia P388 cells inoculated into the tail vein of mice together with high molecular weight polyacrylic acid—similarity of blood stream to vortex–stirring. Ikeda Y, et al. **Biol Pharm Bull** 1997 Jan; 20(1):25–7
Treatment of malignant pleural effusions with a combination of bleomycin and tetracycline. A comparison of bleomycin or tetracycline alone versus a combination of bleomycin and tetracycline. Emad A, et al. **Cancer** 1996 Dec 15; 78(12):2498–501
Advanced epidemic Kaposi's sarcoma: treatment with bleomycin or combination of doxorubicin, bleomycin, and vincristine. Hernández DE, et al. **Int J Dermatol** 1996 Nov; 35(11):831–3
Prospective comparison of the sclerosing agents doxycycline and bleomycin for the primary management of malignant pericardial effusion and cardiac tamponade. Liu G, et al. **J Clin Oncol** 1996 Dec;14(12):3141–7
Bleomycin sulfate in the treatment of mosaic plantar verrucae [letter; comment] McAloon C. **J Foot Ankle Surg** 1997 Jan–Feb;36(1):70–1. Comment on: J Foot Ankle Surg 1996 Mar–Apr;35(2):169–72.
Bleomycin sclerosis of pelvic lymphoceles. Kerlan RK Jr, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):885–7
Efficacy of bleomycin treatment for symptomatic hemangiomas in children. Kullendorff CM. **Pediatr Surg Int** 1997 Sep;12(7):526–8
Electrochemotherapy significantly inhibits the growth of colon 26 tumors in mice. Tada T, et al. **Surg Today** 1997; 27(6):506–10
[Pleurodesis in malignant pleural effusion: bleomycin vs. mitoxantrone] Schmidt M, et al. **Pneumologie** 1997 Apr; 51(4):367–72 (Eng. Abstr.) **(Ger)**

TOXICITY

Chromosome instability with bleomycin and X-ray hypersensitivity in a boy with Nijmegen breakage syndrome. Pérez-Vera P, et al. **Am J Med Genet** 1997 May 2;70(1):24–7
Integrin activation protects pulmonary endothelial cells from the genotoxic effects of bleomycin. Hoyt DG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L612–7
Effect of nordihydroguaiaretic acid and ibuprofen on bleomycin and hyperoxia-induced changes in lung superoxide dismutase, prostaglandins and lethality. Giri SN, et al. **Arch Toxicol** 1996;70(5):271–6
A new method for permeabilization of the plasma membrane of cultured mammalian cells. IV. Structural requirement for high molecular weight polymers for potentiation of bleomycin cytotoxicity toward mammalian cells under conditions of vortex-stirring. Shimizu N, et al. **Biol Pharm Bull** 1996 Sep;19(9):1126–9
Protective effect of liposomal alpha-tocopherol against bleomycin-induced lung injury. Suntres ZE, et al. **Biomed Environ Sci** 1997 Mar;10(1):47–59
Enhanced production of an EGF-like growth factor by parenchymal macrophages following bleomycin-induced pulmonary injury. Temelkovski J, et al. **Exp Lung Res** 1997 Sep–Oct;23(5):377–91
Morphology of lung mast cells in rats treated with bleomycin. Chyczewski L, et al. **Exp Toxicol Pathol** 1996 Nov; 48(6):515–7
Altered immunohistochemical localization of basic fibroblast growth factor after bleomycin-induced lung injury. Liebler JM, et al. **Growth Factors** 1997;14(1):25–38
Increased mutagen-induced chromosome damage in patients with transformed laryngeal pre-cancerosis. Gallo O, et al. **Int J Cancer** 1996 Dec 11;68(6):700–3
Heparin attenuates bleomycin but not silica-induced pulmonary fibrosis in mice: possible relationship with involvement of myofibroblasts in bleomycin, and fibroblasts in silica-induced fibrosis. Piguet PF, et al. **Int J Exp Pathol** 1996 Aug;77(4):155–61
In vitro rejoining of double strand breaks induced in cellular DNA by bleomycin and restriction endonucleases. Cheong N, et al. **Int J Radiat Biol** 1997 Apr;71(4):365–75
Drug-induced apoptosis in hepatoma cells is mediated by the CD95 (APO-1/Fas) receptor/ligand system and involves activation of wild-type p53. Müller M, et al. **J Clin Invest** 1997 Feb 1;99(3):403–13
Up-regulation of platelet-activating factor receptors in lung and alveolar macrophages in the bleomycin-hamster model of pulmonary fibrosis. Chen J, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1219–27
Curcumin protects bleomycin-induced lung injury in rats. Venkatesan N, et al. **Life Sci** 1997;61(6):PL51–8
gamma-Linolenic acid-containing diet attenuates bleomycin-induced lung fibrosis in hamsters. Ziboh VA, et al. **Lipids** 1997 Jul;32(7):759–67
A role for apoptosis in the toxicity and mutagenicity of bleomycin in AHH-1 tk+/- human lymphoblastoid cells. Morris SM, et al. **Mutat Res** 1996 Oct 25;357(1–2):143–65
Prevention of bleomycin-induced lung injury in rats by keratinocyte growth factor. Deterding RR, et al. **Proc Assoc Am Physicians** 1997 May;109(3):254–68
Bleomycin induces strain-dependent alterations in the pattern of epithelial cell-specific marker expression in mouse lung. Daly HE, et al. **Toxicol Appl Pharmacol** 1997 Feb; 142(2):303–10

BLEPHARITIS

COMPLICATIONS

Herpes simplex blepharoconjunctivitis presenting as complete acquired ankyloblepharon. Campanella PC, et al. **Cornea** 1997 May;16(3):360–1
Correction of blepharoconjunctivitis-related upper eyelid entropion using the anterior lamellar reposition technique. Rhatigan MC, et al. **Eye** 1997;11 (Pt 1):118–20

DIAGNOSIS

Influence of topical anesthesia on tests diagnostic of blepharitis-associated dry eye syndrome. Herreras JM, et al. **Ocul Immunol Inflamm** 1997 Mar;5(1):33–41
Granulomatous blepharitis as a sign of Melkersson-Rosenthal syndrome. Yeatts RP, et al. **Ophthalmology** 1997 Jul; 104(7):1185–9; discussion 1189–90
[Blepharitis. Demodex folliculorum, associated pathogen spectrum and specific therapy] Demmler M, et al. **Ophthalmologe** 1997 Mar;94(3):191–6 (Eng. Abstr.) **(Ger)**
[Staphylococcus-associated blepharokeratoconjunctivitis. Clinical findings, pathogenesis and therapy] Tetz MR, et al. **Ophthalmologe** 1997 Mar;94(3):186–90 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

A comparative study of eyelid cleaning regimens in chronic blepharitis. Key JE. **CLAO J** 1996 Jul;22(3):209–12
Ciprofloxacin ophthalmic solution in the treatment of conjunctivitis and blepharitis: a comparison with fusidic acid. Adenis JP, et al. **Eur J Ophthalmol** 1996 Oct–Dec; 6(4):368–74
Comparative evaluation of efficacy and safety of ciprofloxacin and norfloxacin ophthalmic solutions. Adenis JP, et al. **Eur J Ophthalmol** 1996 Jul–Sep;6(3):287–92
Comparative evaluation of the short-term bactericidal potential of a steroid-antibiotic combination versus steroid in the treatment of chronic bacterial blepharitis and conjunctivitis. Shulman DG, et al. **Eur J Ophthalmol** 1996 Oct–Dec;6(4):361–7
The efficacy of topical metronidazole in the treatment of ocular rosacea. Barnhorst DA Jr, et al. **Ophthalmology** 1996 Nov;103(11):1880–3

ETIOLOGY

[Microsporum canis tinea ciliaris and blepharitis] Creach P, et al. **Ann Dermatol Venereol** 1995;122(11–12):773–4 (Eng. Abstr.) **(Fre)**

METABOLISM

Meibomian gland triglyceride fatty acid differences in chronic blepharitis patients. Shine WE, et al. **Cornea** 1996 Jul;15(4):340–6

PARASITOLOGY

[Recurrent palpebral edema caused by ascaridiasis] Castellazzo R. **Minerva Oftalmol** 1967 Jul–Aug;9(4):146–9 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Assessment of the tear film with tandem scanning confocal microscopy. Mathers WD, et al. **Cornea** 1997 Mar; 16(2):162–8

PREVENTION & CONTROL

Local injections of corticotropin releasing factor reduce doxorubicin-induced acute inflammation in the eyelid. McLoon LK, et al. **Invest Ophthalmol Vis Sci** 1997 Apr; 38(5):834–41

VETERINARY

Swollen eyelid associated with Foleyella sp infection in a chameleon. Thomas CL, et al. **J Am Vet Med Assoc** 1996 Sep 1;209(5):972–3

VIROLOGY

Photo quiz. Blepharitis due to herpes simplex virus type 1. Robinson J. **Clin Infect Dis** 1997 Jan;24(1):17, 75

BLEPHAROPHIMOSIS

DIAGNOSIS

[Komoto syndrome: a case review] Bringué Espuny X, et al. **An Esp Pediatr** 1997 Mar;46(3):291–2 **(Spa)**

GENETICS

Blepharophimosis syndrome (BPES) and additional abnormalities in a female with a balanced X:3 translocation [letter] Karimi-Nejad A, et al. **Clin Dysmorphol** 1996 Jul; 5(3):259–61 (5 ref.)
A YAC contig spanning the blepharophimosis-ptosis-epicanthus inversus syndrome and propionic acidemia loci. Piemontese MR, et al. **Eur J Hum Genet** 1997 May–Jun;5(3):171–4
Linkage of blepharophimosis syndrome in a large Indian pedigree to chromosome 7p. Maw M, et al. **Hum Mol Genet** 1996 Dec;5(12):2049–54

BLEPHAROPTOSIS

Previously apparently undescribed syndrome: shallow orbits, ptosis, coloboma, trigonocephaly, gyral malformations, and mental and growth retardation [letter; comment] Fryns JP. **Am J Med Genet** 1996 Aug 23;64(3):521–2. Comment on: Am J Med Genet 1995 Jul 3;57(3):403–9.

CHEMICALLY INDUCED

Eye movement disorders in bone marrow transplant patients on cyclosporin and ganciclovir. Openshaw H, et al. **Bone Marrow Transplant** 1997 Mar;19(5):503–5
The management of keratoconus with acute hydrops in the Down's syndrome and mentally retarded patient [letter] Tsaloumas MD, et al. **Eye** 1996;10 (Pt 5):644–6
Myasthenia-like syndrome induced by overdosage of cibenzoline. Kasuga A, et al. **Intern Med** 1996 Jun; 35(6):512–4

COMPLICATIONS

Bilateral ptosis and upgaze palsy with right hemispheric lesions. Averbuch-Heller L, et al. **Ann Neurol** 1996 Sep; 40(3):465–8

CONGENITAL

Unilateral congenital ptosis with ipsilateral superior rectus muscle overaction. Steel DH, et al. **Am J Ophthalmol** 1996 Oct;122(4):550–6
Congenital ptosis: results of surgical management [letter] Teske SA, et al. **Aust N Z J Ophthalmol** 1996 Nov; 24(4):389–91
Congenital ptosis: a good cosmetic result with redefinition and suturing of the orbital septum. McElvanney AM, et al. **Eye** 1996;10 (Pt 5):548–50
Palpebral fissure height and downgaze in patients with Graves upper eyelid retraction and congenital blepharoptosis [see comments] Guimarães FC, et al. **Ophthalmology** 1995 Aug;102(8):1218–22. Comment in: Ophthalmology 1996 Feb;103(2):195–6.
[Frontalis suspension with "expanded polytetrafluoroethylene (ePTFE) strips" in congenital ptosis] Kuchar A, et al. **Klin Monatsbl Augenheilkd** 1997 Jul;211(1):37–40 (Eng. Abstr.) **(Ger)**
[Amblyopia, refractive errors and strabismus in congenital ptosis] Stärk N, et al. **Ophthalmologe** 1996 Aug;93(4):345–50 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Macula halo syndrome and non-pitting lid oedema in an Italian family. Pagliarini S, et al. **Eye** 1996;10 (Pt 6):723–6
Eyebrow lifting test: a novel bedside test for narrowing of the palpebral fissure associated with peripheral facial nerve palsy [letter] Ohkawa S, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):256–7
Palpebral ptosis and muscle fatiguability associated with perineurial cell ensheathment of muscle fibers: a new disease of the neuromuscular junction? Federico A, et al. **J Neurol Sci** 1997 Aug;149(2):147–50
Acute, unilateral, temporary blepharoptosis: a diagnostic quandry. Guerra A. **Ophthal Plast Reconstr Surg** 1996 Sep; 12(3):223–4; discussion 225–7

ETIOLOGY

Eyebrow lifting test: a novel bedside test for narrowing of the palpebral fissure associated with peripheral facial nerve palsy [letter] Ohkawa S, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):256–7
Enhanced ptosis in Lambert-Eaton myasthenic syndrome. Brazis PW. **J Neuroophthalmol** 1997 Sep;17(3):202–3
Bilateral ptosis due to mesencephalic lesions with relative preservation of ocular motility. Martin TJ, et al. **J Neuroophthalmol** 1996 Dec;16(4):258–63
Congenital ocular aberrant innervation—new concepts. Freedman HL, et al. **J Pediatr Ophthalmol Strabismus** 1997 Jan–Feb;34(1):10–6
Incidence of ptosis following trabeculectomy: a comparative study. Song MS, et al. **Korean J Ophthalmol** 1996 Dec; 10(2):97–103
Palpebral aperture sizes of rigid and soft contact lens wearers compared with nonwearers. Fonn D, et al. **Optom Vis Sci** 1996 Mar;73(3):211–4
Ptosis in an elderly man. Yusuf SW, et al. **Postgrad Med J** 1997 Jan;73(855):55–7
[Variable and recurrent ptosis and ophthalmoplegia in chronic polyradiculoneuritis] Serratrice G, et al. **Rev Neurol (Paris)** 1997 Apr;153(3):197–200 (Eng. Abstr.) **(Fre)**
[Ophthalmoplegia. Ophthalmoplegia in sphenoid sinus metastasis of a laryngeal carcinoma] Keiner S, et al. **HNO** 1997 Apr;45(4):238–9 **(Ger)**
[A case of orbital myositis with blepharoptosis demonstrating the swelling of superior levator palpebrae muscle on magnetic resonance images] Minohara M, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):786–9 (Eng. Abstr.) **(Jpn)**
[Idiopathic hypertrophic cranial pachymeningitis associated with Horner's syndrome. A case report] Shindo K, et al. **Rinsho Shinkeigaku** 1997 Apr;37(4):300–3 (22 ref.) (Eng.

BLEPHAROPTOSIS

Abstr.) **(Jpn)**

[Difficulty in eye opening following left hemispheric infarction— causative lesion and pathophysiology of abnormalities of the eye and eyelids movements] Waragai M, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):577–83 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Plus-minus eyelid syndrome of vascular origin] Moreno-Rojas AJ, et al. **Rev Neurol** 1996 Jan;24(125):94–5 (Eng. Abstr.) **(Spa)**

GENETICS

Oculopharyngeal muscular dystrophy in Norway. Survey of a large Norwegian family. Salvesen R, et al. **Acta Neurol Scand** 1996 Apr;93(4):281–5

A gene for isolated congenital ptosis maps to a 3-cM region within 1p32-p34.1. Engle EC, et al. **Am J Hum Genet** 1997 May;60(5):1150–7

Blepharophimosis syndrome (BPES) and additional abnormalities in a female with a balanced X:3 translocation [letter] Karimi-Nejad A, et al. **Clin Dysmorphol** 1996 Jul; 5(3):259–61 (5 ref.)

Ptosis, down-slanting palpebral fissures, hypertelorism, seizures and mental retardation: a possible new MCA/MR syndrome. Mégarbané A, et al. **Clin Dysmorphol** 1997 Jul; 6(3):239–44

A YAC contig spanning the blepharophimosis-ptosis-epicanthus inversus syndrome and propionic acidemia loci. Piemontese MR, et al. **Eur J Hum Genet** 1997 May-Jun;5(3):171–4

PATHOLOGY

A neuroanatomical analysis of lid-eye coordination in cases of ptosis and downgaze paralysis. Büttner-Ennever JA, et al. **Clin Neuropathol** 1996 Nov-Dec;15(6):313–8

Hering's law for eyelids [letter; comment] Eggenberger E, et al. **Neurology** 1996 Nov;47(5):1352. Comment on: Neurology 1995 Sep;45(9):1781–3.

PHYSIOPATHOLOGY

Palpebral fissure height and downgaze in patients with Graves upper eyelid retraction and congenital blepharoptosis [see comments] Guimarães FC, et al. **Ophthalmology** 1995 Aug;102(8):1218–22. Comment in: Ophthalmology 1996 Feb;103(2):195–6.

Downgaze eyelid position in patients with blepharoptosis. Meyer DR, et al. **Ophthalmology** 1995 Oct;102(10):1517–23

Here today ... gone tomorrow. Phillips PH, et al. **Surv Ophthalmol** 1997 Jan-Feb;41(4):354–6

PREVENTION & CONTROL

Preventing ptosis after botulinum treatment. Scott AB. **Ophthal Plast Reconstr Surg** 1997 Jun;13(2):81–3

RADIOGRAPHY

Bilateral ptosis and upgaze palsy with right hemispheric lesions. Averbuch-Heller L, et al. **Ann Neurol** 1996 Sep; 40(3):465–8

SURGERY

Importance of fat conservation in lower blepharoplasty. Eder H. **Aesthetic Plast Surg** 1997 May-Jun;21(3):168–74

A case report on spontaneous return of levator function following postcataract blepharoptosis repair. Parsa FD, et al. **Ann Plast Surg** 1996 Dec;37(6):638–40

Extensive bilateral eyelid ptosis caused by xanthoma palpebrarum. Ustünsoy E, et al. **Ann Plast Surg** 1997 Feb; 38(2):177–8

Congenital ptosis: results of surgical management [letter] Teske SA, et al. **Aust N Z J Ophthalmol** 1996 Nov; 24(4):389–91

Complications of fascia lata harvesting for ptosis surgery. Wheatcroft SM, et al. **Br J Ophthalmol** 1997 Jul;81(7):581–3

Ptosis surgery using Mersilene mesh suspensory material. Can I, et al. **Eur J Ophthalmol** 1996 Apr-Jun;6(2):150–4

Palmaris longus tendon as a new autogenous material for frontalis suspension surgery in adults. Lam DS, et al. **Eye** 1996;10 (Pt 1):38–42

Congenital ptosis: a good cosmetic result with redefinition and suturing of the orbital septum. McElvanney AM, et al. **Eye** 1996;10 (Pt 5):548–50

Levator transposition procedure: a review of 35 cases. Manners RM, et al. **Eye** 1996;10 (Pt 5):539–44

Minimal ptosis management. Dresner SC. **Int Ophthalmol Clin** 1997 Summer;37(3):151–62

Lower-eyelid blepharoplasty. Kikkawa DO, et al. **Int Ophthalmol Clin** 1997 Summer;37(3):163–78 (40 ref.)

The aponeurotic approach for the correction of blepharoptosis. Shovlin JP. **Int Ophthalmol Clin** 1997 Summer;37(3):133–50 (30 ref.)

Upper-eyelid blepharoplasty. Stephenson CB. **Int Ophthalmol Clin** 1997 Summer;37(3):123–32 (17 ref.)

Functional eyelid surgery. Meyer DR. **Ophthal Plast Reconstr Surg** 1997 Jun;13(2):77–80 (18 ref.)

A disposable needle for frontalis suspension surgery in congenital ptosis. Daví G, et al. **Ophthalmic Surg Lasers** 1997 Jul;28(7):607–8

Fox's modified technique using the Mersilene mesh sling in the management of blepharoptosis. Gabrieli CB, et al. **Ophthalmic Surg Lasers** 1996 Nov;27(11):924–8

Lower eyelid recession combined with ptosis surgery in patients with poor ocular motility. Holck DE, et al. **Ophthalmology** 1997 Jan;104(1):92–5

High leg incision fascia lata harvesting. Naugle TC Jr, et al. **Ophthalmology** 1997 Sep;104(9):1480–8

Silicone frontalis slings for correction of blepharoptosis [letter; comment] Rama G, et al. **Ophthalmology** 1997 Jan; 104(1):1–2. Comment on: Ophthalmology 1996 Apr;103(4):623–30.

Refined frontalis fascial sling with proper lid crease formation for blepharoptosis. Chen TH, et al. **Plast Reconstr Surg** 1997 Jan;99(1):34–40

Results of levator-advancement blepharoptosis repair using a standard protocol: effect of epinephrine-induced eyelid position change. Bartley GB, et al. **Trans Am Ophthalmol Soc** 1996;94:165–73; discussion 174–7

[Clinical significance of ophthalmo-electromyography in the determination of the function of the superior levator muscle] Cui W, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):205–7 (Eng. Abstr.) **(Chi)**

[Insufficiency of a frontalis loop] Rohrbach JM, et al. **Klin Monatsbl Augenheilkd** 1997 Mar;210(3):172–3 (Eng. Abstr.) **(Ger)**

[Plastic surgery treatment of blepharochalasia with ptosis] Härtel P. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:1115–7 (Eng. Abstr.) **(Ger)**

[Subconjunctival anesthesia: an alternative for vitrectomy in mitochondrial myopathy] Ortiz M, et al. **Rev Esp Anestesiol Reanim** 1997 Apr;44(4):159–60 (Eng. Abstr.) **(Spa)**

BLEPHAROSPASM

CHEMICALLY INDUCED

Personal defense sprays: effects and management of exposure. Lee RJ, et al. **J Am Optom Assoc** 1996 Sep;67(9):548–60

DIAGNOSIS

Blepharospasm and oromandibular dystonia [letter; comment] Micheli F, et al. **Mov Disord** 1997 Mar;12(2):262–3. Comment on: Mov Disord 1995 Nov;10(6):794–5.

[Idiopathic facial hemispasm: a case report] Navarrete ML, et al. **Acta Otorrinolaringol Esp** 1997 Jan-Feb;48(1):57–9 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Treatment selections of 239 patients with blepharospasm and Meige syndrome over 11 years. Mauriello JA Jr, et al. **Br J Ophthalmol** 1996 Dec;80(12):1073–6

Different effects of levodopa and apomorphine on blink reflex recovery cycle in essential blepharospasm. Napolitano A, et al. **Eur Neurol** 1997;38(2):119–22

Comparison of two botulinum-toxin preparations in the treatment of essential blepharospasm. Nüssgens Z, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Apr;235(4):197–9

Botulinum A toxin treatment for blepharospasm and Meige syndrome: report of 100 patients. Poungvarin N, et al. **J Med Assoc Thai** 1997 Jan;80(1):1–8

Electrophysiological studies in patients with blepharospasm before and after botulinum toxin A therapy. Behari M, et al. **J Neurol Sci** 1996 Jan;135(1):74–7

Sensitivity to vecuronium after botulinum toxin administration. Fiacchino F, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):149–53

Botulinum toxin type A purified neurotoxin complex for the treatment of blepharospasm: a dose-response study measuring eyelid force. Iwashige H, et al. **Jpn J Ophthalmol** 1995;39(4):424–31

The variability in the clinical effect induced by botulinum toxin type A: the role of muscle activity in humans. Eleopra R, et al. **Mov Disord** 1997 Jan;12(1):89–94

Botulinum toxin treatment in the facial muscles of humans: evidence of an action in untreated near muscles by peripheral local diffusion. Eleopra R, et al. **Neurology** 1996 Apr;46(4):1158–60

Oculinum injection-resistant blepharospasm in young patients [letter; comment] Roggenkämper P, et al. **Ophthal Plast Reconstr Surg** 1997 Mar;13(1):73. Comment on: Ophthal Plast Reconstr Surg 1994 Sep;10(3):193–4.

Long-term changes in duration of relief with botulinum toxin treatment of essential blepharospasm and hemifacial spasm [see comments] Ainsworth JR, et al. **Ophthalmology** 1995 Dec;102(12):2036–40. Comment in: Ophthalmology 1996 Mar;103(3):348.

Blepharospasm and hemifacial spasm. Randomized trial to determine the most appropriate location for botulinum toxin injections. Price J, et al. **Ophthalmology** 1997 May; 104(5):865–8

Botulinum-A toxin in the treatment of craniocervical muscle spasms: short- and long-term, local and systemic effects. Dutton JJ. **Surv Ophthalmol** 1996 Jul-Aug;41(1):51–65 (145 ref.)

[Use of botulinum toxin in ophthalmology: current concepts and problems] Tapiero B, et al. **J Fr Ophtalmol** 1997; 20(2):134–45 (21 ref.) **(Fre)**

[Use of botulinum toxin in ophthalmology] Huber A. **Klin Monatsbl Augenheilkd** 1997 May;210(5):289–92 (28 ref.) (Eng. Abstr.) **(Ger)**

[Blepharospasm: treatment with botulinum toxin] Barbosa ER, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Nov-Dec;51(6):220–3 (Eng. Abstr.) **(Por)**

ETIOLOGY

Bell's Palsy-associated blepharospasm relieved by aiding eyelid closure. Chuke JC, et al. **Ann Neurol** 1996 Feb; 39(2):263–8

Multiple sclerosis leading to blepharospasm and dystonia in a sibling pair [letter] Moore CE, et al. **J Neurol** 1996 Sep; 243(9):667–70 (28 ref.)

Maladaptive neural compensatory mechanisms in Bell's palsy-induced blepharospasm. Baker RS, et al. **Neurology** 1997 Jul;49(1):223–9

Associated blepharospasm in lower pontine lesions [letter; comment] Nair KR. **Neurology** 1997 Feb;48(2):553. Comment on: Neurology 1996 Feb;46(2):476–8.

[Blepharospasm caused by bilateral paramedian thalamic infarction] Awada A. **Rev Neurol (Paris)** 1997 Feb; 155(1):62–4 (11 ref.) (Eng. Abstr.) **(Fre)**

[Difficulty in eye opening following left hemispheric infarction— causative lesion and pathophysiology of abnormalities of the eye and eyelids movements] Waragai M, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):577–83 (16 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

The role of blink adaptation in the pathophysiology of benign essential blepharospasm. Hasan SA, et al. **Arch Ophthalmol** 1997 May;115(5):631–6

Treatment choices of 119 patients with hemifacial spasm over 11 years. Mauriello JA Jr, et al. **Clin Neurol Neurosurg** 1996 Aug;98(3):213–6

Effect of photic conditioning on blink reflex recovery function in blepharospasm. Katayama M, et al. **Electroencephalogr Clin Neurophysiol** 1996 Oct; 101(5):446–52

Blepharospasm: an Australian survey. Daly K. **Int J Rehabil Res** 1997 Mar;20(1):41–50 (15 ref.)

Electrophysiological studies in patients with blepharospasm before and after botulinum toxin A therapy. Behari M, et al. **J Neurol Sci** 1996 Jan;135(1):74–7

Animal model explains the origins of the cranial dystonia benign essential blepharospasm. Schicatano EJ, et al. **J Neurophysiol** 1997 May;77(5):2842–6

Botulinum toxin type A purified neurotoxin complex for the treatment of blepharospasm: a dose-response study measuring eyelid force. Iwashige H, et al. **Jpn J Ophthalmol** 1995;39(4):424–31

Saccadic eye movements in idiopathic blepharospasm. Bollen E, et al. **Mov Disord** 1996 Nov;11(6):678–82

SURGERY

Bell's Palsy-associated blepharospasm relieved by aiding eyelid closure. Chuke JC, et al. **Ann Neurol** 1996 Feb; 39(2):263–8

Frontalis suspension in the treatment of essential blepharospasm unresponsive to botulinum-toxin therapy: long-term results. Roggenkämper P, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Aug;235(8):486–9

THERAPY

Preventing ptosis after botulinum treatment. Scott AB. **Ophthal Plast Reconstr Surg** 1997 Jun;13(2):81–3

[Treatment of neurological disorders with botulinum toxin: recent progress] Mezaki T, et al. **No To Shinkei** 1997 Jun; 49(6):499–505 (46 ref.) **(Jpn)**

BLEPHAROSPASM-OROMANDIBULAR DYSTONIA
see **MEIGE SYNDROME**

BLIND LOOP SYNDROME

[Short bowel syndrome and blind loop syndrome] Hatakeyama K. **Nippon Naika Gakkai Zasshi** 1996 Jul 10; 85(7):1072–8 (5 ref.) **(Jpn)**

BLIND SPOT see **OPTIC DISK**

BLINDNESS

see related
SENSORY AIDS
VISION, SUBNORMAL

A comparative study of personality descriptors attributed to the deaf, the blind, and individuals with no sensory disability. Cambra C. **Am Ann Deaf** 1996 Mar;141(1):24–8

Strategic planning: purpose and process in transforming state supported special schools for the sensory disabled in the United States. Griffing BL. **Am Ann Deaf** 1996 Dec; 141(5):365–9

Strategies to improve the reporting of legal blindness in Massachusetts. el-Hashimy MM, et al. **Am J Public Health** 1997 Mar;87(3):425–8

Medicines information--leaving blind people behind? [editorial] Raynor DK, et al. **BMJ** 1997 Aug 2; 315(7103):268

Work environment of blind computer specialists in Japan. Nagaoka H, et al. **Disabil Rehabil** 1997 Jul;19(7):293–6

The St Vincent Declaration: a new charter? [editorial] Cheng H. **Eye** 1996;10 (Pt 4):411–2

A system for enabling blind people to identify landmarks: the sound buoy. Blenkhorn P, et al. **IEEE Trans Rehabil Eng** 1997 Sep;5(3):276–8

Tactile-audio diagram for blind persons. Minagawa H, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):431–7

Where antacids cured blindness [letter] Gupta RC. **J Assoc Physicians India** 1995 Jun;43(6):446

Leber's congenital amaurosis associated with mitochondrial dysfunction. Castro-Gago M, et al. **J Child Neurol** 1996 Mar;11(2):108–11

Functional relevance of cross-modal plasticity in blind humans. Cohen LG, et al. **Nature** 1997 Sep 11; 389(6647):180–3

How the blind draw. Kennedy KM. **Sci Am** 1997 Jan; 276(1):76–81

Global blindness and the nation. Lim KH. **Singapore Med J** 1996 Aug;37(4):419–23

CHEMICALLY INDUCED

Neurophysiologic evaluation of cyclosporine toxicity associated with bone marrow transplantation [corrected and republished article originally printed in Acta Neurol Scand 1995 Nov;92(5):423–9] Edwards LL, et al. **Acta Neurol Scand** 1996 Nov;94(5):358–64 (22 ref.)

Scombroid poisoning revisited [letter; comment] Clark RB. **Ann Emerg Med** 1997 Mar;29(3):426–7. Comment on: Ann Emerg Med 1996 Aug;28(2):235–8.

Cyclosporine-induced retinal toxic blindness. López-Jiménez J, et al. **Bone Marrow Transplant** 1997 Aug;20(3):243–5

Permanent blindness after cyclosporine neurotoxicity in a kidney–pancreas transplant recipient. Esterl RM Jr, et al. **Clin Neuropharmacol** 1996 Jun;19(3):259–66

Status epilepticus following intravenous N-acetylcysteine therapy. Hershkovitz E, et al. **Isr J Med Sci** 1996 Nov; 32(11):1102–4

Transient no light perception visual acuity after intracameral lidocaine injection. Hoffman RS, et al. **J Cataract Refract Surg** 1997 Jul–Aug;23(6):957–8

Cortical blindness secondary to cyclosporine after orthotopic heart transplantation: a case report and review of the literature. Drachman BM, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1158–64 (38 ref.)

Subacute encephalopathic toxicity of cisplatin. Verschraegen C, et al. **Lung Cancer** 1995 Dec;13(3):305–9 (13 ref.)

Blindness from quinine as an antimalarial [letter; comment] Waddell K. **Trans R Soc Trop Med Hyg** 1996 May–Jun; 90(3):331–2. Comment on: Trans R Soc Trop Med Hyg 1995 Jul–Aug;89(4):462–4.

Itraconazole-related amaurosis and vomiting due to digoxin toxicity [letter] Cone LA, et al. **West J Med** 1996 Nov; 165(5):322

CLASSIFICATION

Another variety of vision [letter; comment] Skoyles JR. **Trends Neurosci** 1997 Jan;20(1):22–3. Comment on: Trends Neurosci 1996 Sep;19(9):401–6.

COMPLICATIONS

Cochlear implantation in a blind and deaf patient. Kawasaki E, et al. **Adv Otorhinolaryngol** 1997;52:89–91

Programs for deaf–blind children and adults. **Am Ann Deaf** 1997 Apr;142(2):227–32

Multichannel cochlear implant in a deaf–blind patient. Arauz SL, et al. **Audiology** 1997 Mar–Apr;36(2):109–16

Epileptic blindness in children: a localizing sign of various epileptic disorders. Shahar E, et al. **Clin Neurol Neurosurg** 1996 Aug;98(3):237–41

Longitudinal study of neuropsychological outcome in blind extremely-low-birthweight children. Gosch A, et al. **Dev Med Child Neurol** 1997 May;39(5):297–304

Long-term melatonin treatment in blind children and young adults with circadian sleep–wake disturbances. Palm L, et al. **Dev Med Child Neurol** 1997 May;39(5):319–25

Self monitoring of blood glucose in blind diabetic patients. Windecker R, et al. **Diabet Med** 1997 Aug;14(8):703–6

Visual hallucinations in a blind elderly woman: Charles Bonnet syndrome, an underrecognized clinical condition [letter] Chen J, et al. **Gen Hosp Psychiatry** 1996 Nov; 18(6):453–5

Malignant tumor of the retinal pigment epithelium with extraocular extension in a phthisical eye. Loeffler KU, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S70–5

Gaze-evoked amaurosis caused by intraconal cavernous hemangioma: a case report. Tsai RK, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 May; 13(5):324–7

Sleep disturbance and blindness [letter] Moseley MJ, et al. **Lancet** 1996 Nov 30;348(9040):1514–5

Properties of complex hallucinations associated with deficits in vision. Schultz G, et al. **Perception** 1996;25(6):715–26

Bilateral choroidal osteoma associated with bilateral total blindness. Shields JA, et al. **Retina** 1996;16(5):445–7

[Deafness and blindness in the elderly leading to psychosocial problems (letter; comment)] Leijten FS, et al. **Ned Tijdschr Geneeskd** 1996 Oct 26;140(43):2148. Comment on: Ned Tijdschr Geneeskd 1996 Sep 14;140(37):1845–8. **(Dut)**

[Septo-optic dysplasia (de Morsier syndrome)] Liptai Z, et al. **Orv Hetil** 1996 Aug 4;137(31):1705–9 (Eng. Abstr.) **(Hun)**

[Right eye blindness as the predominating clinical sign in a patient with aortic arch syndrome: a case report] Kopytek M, et al. **Neurol Neurochir Pol** 1996 Nov–Dec; 30(6):1065–71 (Eng. Abstr.) **(Pol)**

CONGENITAL

Exploration of surface-textures in congenitally blind infants. Schellingerhout R, et al. **Child Care Health Dev** 1997 May; 23(3):247–64

What's communication got to do with it? Gesture in children blind from birth. Iverson JM, et al. **Dev Psychol** 1997 May; 33(3):453–67

Leber's congenital amaurosis in 22 affected members of one family. al-Salem M. **J Pediatr Ophthalmol Strabismus** 1997 Jul–Aug;34(4):254–7

Retinal-specific guanylate cyclase gene mutations in Leber's congenital amaurosis. Perrault I, et al. **Nat Genet** 1996 Dec; 14(4):461–4

Leber congenital amaurosis—differential diagnosis, ophthalmological and neuroradiological report of 18 patients. Casteels I, et al. **Neuropediatrics** 1996 Aug; 27(4):189–93

[A literature review of Norrie disease] Ohba N, et al. **Nippon Ganka Gakkai Zasshi** 1996 Feb;100(2):101–10 (74 ref.) (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

In-office screening for age-related hearing and vision loss. Abyad A. **Geriatrics** 1997 Jun;52(6):45–6, 51–4, 57

Leber congenital amaurosis—differential diagnosis, ophthalmological and neuroradiological report of 18 patients. Casteels I, et al. **Neuropediatrics** 1996 Aug; 27(4):189–93

DRUG THERAPY

Late treatment of methanol blindness [letter] Rotenstreich Y, et al. **Br J Ophthalmol** 1997 May;81(5):416–7

Amaurosis fugax treated with nifedipine [letter] Davis AR. **Med J Aust** 1997 Aug 4;167(3):176

[In sudden blindness: nitroglycerin? Reflections on therapy of acute embolism embolism of the central retinal artery (letter)] Erdmann R. **Klin Monatsbl Augenheilkd** 1997 Jan; 210(1):68 **(Ger)**

ECONOMICS

Cost-benefit analysis of diabetic eye disease. Matz H, et al. **Ophthalmologica** 1996;210(6):348–53

EPIDEMIOLOGY

Incidence of blindness and visual impairment in diabetic patients participating in an ophthalmological control and screening programme. Henricsson M, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):533–8

Current trends in newly registered blindness in Denmark. Rosenberg T, et al. **Acta Ophthalmol Scand** 1996 Aug; 74(4):395–8

The incidence of registered blindness caused by age-related macular degeneration. Rosenberg T, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):399–402

Retinopathy of prematurity: the continuing threat to vision in preterm infants. Dutch survey from 1986 to 1994. Schalij-Delfos NE, et al. **Acta Ophthalmol Scand** 1997 Feb; 75(1):72–5

Visual impairment in Australia: distance visual acuity, near vision, and visual field findings of the Melbourne Visual Impairment Project. Taylor HR, et al. **Am J Ophthalmol** 1997 Mar;123(3):328–37

Prevalence of blindness and visual impairment in an elderly urban population. Casson R, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):239–43

Blindness and trachoma in South Australia [letter; comment] Graham P. **Aust N Z J Ophthalmol** 1996 May;24(2):161–2 . Comment on: Aust N Z J Ophthalmol 1995 Aug;23(3):251.

Visual acuity in an Australian aboriginal population. Stocks NP, et al. **Aust N Z J Ophthalmol** 1997 May;25(2):125–31

Changing patterns of corneal disease and associated vision loss at a rural African hospital following a training programme for traditional healers. Courtright P, et al. **Br J Ophthalmol** 1996 Aug;80(8):694–7

Visual loss and giant cell arteritis [letter] Docken WP. **Br J Rheumatol** 1997 Jul;36(7):823

Visual field constriction as a cause of blindness or visual impairment. Murdoch IE, et al. **Bull World Health Organ** 1997;75(2):141–6

Multihandicapped blind and partially sighted children in south Germany. I: Prevalence, impairments and ophthalmological findings. Häussler M, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1068–75

The importance of prenatal factors in childhood blindness in India. Rahi JS, et al. **Dev Med Child Neurol** 1997 Jul; 39(7):449–55

Prevalence of blindness and visual impairment due to cataract—Sofia Eye Survey. Vassileva P, et al. **Dev Ophthalmol** 1997;27:19–24

Blindness due to diabetes: population-based age- and sex-specific incidence rates. Icks A, et al. **Diabet Med** 1997 Jul;14(7):571–5

Methods for estimating prevalence and incidence of senile cataract blindness in a district. Bhattacharjee J, et al. **Indian J Ophthalmol** 1996 Dec;44(4):207–11

Childhood blindness in India and Sri Lanka. Foster A. **Indian J Ophthalmol** 1996 Mar;44(1):57–60 (8 ref.)

Cataract blindness on the rise? Results of a door-to-door examination in Mohadi. Limburg H, et al. **Indian J Ophthalmol** 1996 Dec;44(4):241–4

Blindness and low vision in southeast Turkey. Negrel AD, et al. **Ophthalmic Epidemiol** 1996 Dec;3(3):127–34

Prevalence and causes of blindness in the South Australian population aged 50 and over. Newland HS, et al. **Ophthalmic Epidemiol** 1996 Jun;3(2):97–107

Blindness and visual impairment in western Bulgaria. Vassileva P, et al. **Ophthalmic Epidemiol** 1996 Dec; 3(3):143–9

Blindness and low vision in Jimma Zone, Ethopia: results of a population-based survey. Zerihun N, et al. **Ophthalmic Epidemiol** 1997 Mar;4(1):19–26

Blindness after facial trauma. Zachariades N, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):34–7

Magnitude and causes of blindness and low vision in Anambra State of Nigeria (results of 1992 point prevalence survey). Ezepue UF. **Public Health** 1997 Sep;111(5):305–9

Survey of blindness in rural communities of south-western Nigeria. Adeoye A. **Trop Med Int Health** 1996 Oct; 1(5):672–6

Prevalence of blindness in a rural ophthalmically underserved Nigerian community. Fafowora OF. **West Afr J Med** 1996 Oct–Dec;15(4):228–31

[Blindness in children in Antananarivo 1988–1993] Rasikindrahona RE, et al. **Rev Int Trach Pathol Ocul Trop Subtrop Sante Publique** 1995;72:113–20 (Eng. Abstr.) **(Fre)**

[New blindness incidents in Württemberg-Hohenzollern] Krumpaszky HG, et al. **Ophthalmologe** 1997 Mar; 94(3):234–6 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Acute bilateral blindness. Hoover BW, et al. **Acad Emerg Med** 1996 Nov;3(11):1056–9

Bilateral blindness [letter] Kosowsky JM. **Acad Emerg Med** 1997 Aug;4(8):834–5

Sudden unilateral blindness after intracranial aneurysm surgery. Kang S, et al. **Acta Neurochir (Wien)** 1997; 139(3):221–6

Loss of vision in the ageing eye. Research into Ageing Workshop, London, 10 May 1995. Bron AJ, et al. **Age Ageing** 1997 Mar;26(2):159–62

Chiasmal infarction and sudden blindness caused by mucormycosis in AIDS and diabetes mellitus. Lee BL, et al. **Am J Ophthalmol** 1996 Dec;122(6):895–6

Subperiosteal orbital hemorrhage from retrobulbar injection resulting in blindness [letter; comment] Girard LJ. **Arch Ophthalmol** 1997 Aug;115(8):1085–6. Comment on: Arch Ophthalmol 1997 Jan;115(1):123–4.

Subperiosteal orbital hemorrhage from retrobulbar injection resulting in blindness [see comments] Mootha VV, et al. **Arch Ophthalmol** 1997 Jan;115(1):123–4. Comment in: Arch Ophthalmol 1997 Aug;115(8):1085–6.

Transient blindness associated with hypertensive disorders in pregnancy. To WW, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):363–5

Tacrolimus (FK506)-induced cerebral blindness following bone marrow transplantation. Devine SM, et al. **Bone Marrow Transplant** 1996 Sep;18(3):569–72

IgA-epidermolysis bullosa acquisita in a child resulting in blindness. Caux F, et al. **Br J Dermatol** 1997 Aug; 137(2):270–5

The possible impact of uveitis in blindness: a literature survey. Suttorp-Schulten MS, et al. **Br J Ophthalmol** 1996 Sep; 80(9):844–8 (78 ref.)

Spontaneous dissection of internal carotid artery presenting as isolated posterior ischaemic optic neuropathy [letter] Tsai RK, et al. **Br J Ophthalmol** 1997 Jun;81(6):513

Visual loss and giant cell arteritis [letter] Docken WP. **Br J Rheumatol** 1997 Jul;36(7):823

Clinical features in patients with permanent visual loss due to biopsy-proven giant cell arteritis. Font C, et al. **Br J Rheumatol** 1997 Feb;36(2):251–4

Relationship between the development of blindness in Churg-Strauss syndrome and anti-myeloperoxidase antibodies. Sutcliffe N, et al. **Br J Rheumatol** 1997 Feb; 36(2):273–5

Age-related macular degeneration: legal vs total blindness [letter; comment] Pinsky N. **Can Fam Physician** 1997 May; 43:841. Comment on: Can Fam Physician 1997 Feb;43:219, 225.

Ophthaproblem. Central retinal arterial occlusion. Sharma S. **Can Fam Physician** 1997 Sep;43:1513, 1520

Isolated ophthalmological manifestations due to malfunction of a lumboperitoneal shunt: shortening of the spinal catheter in three pediatric patients. Aoki N, et al. **Childs Nerv Syst** 1997 May;13(5):264–7

Visual failure caused by raised intracranial pressure in craniosynostosis. Stavrou P, et al. **Childs Nerv Syst** 1997 Feb;13(2):64–7

Cranial disjunction and visual failure in a slit ventricle syndrome with patent shunt. Van Bogaert P, et al. **Childs Nerv Syst** 1996 May;12(5):276–8; discussion 279

Mass cataract blindness [letter] Lim AS. **CLAO J** 1996 Jan; 22(1):10

Multihandicapped blind and partially sighted children in south Germany. II: Aetiology and pathogenesis. Häussler

M, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1076–90

The importance of prenatal factors in childhood blindness in India. Rahi JS, et al. **Dev Med Child Neurol** 1997 Jul; 39(7):449–55

Blindness due to diabetes: population-based age- and sex-specific incidence rates. Icks A, et al. **Diabet Med** 1997 Jul;14(7):571–5

Cortical blindness and cerebral infarction associated with severe hypoglycemia. Gold AE, et al. **Diabetes Care** 1996 Sep;19(9):1001–3

Transient cortical blindness in gestational hypertension: report of two cases. Anate M. **East Afr Med J** 1996 Dec; 73(12):838–40

Transient blindness following TURP [letter] [see comments] Adejumo SW, et al. **Eur J Anaesthesiol** 1996 Sep;13(5):536 . Comment in: Eur J Anaesthesiol 1997 May;14(3):342–3.

Transient blindness after TURP [letter; comment] Payne JP. **Eur J Anaesthesiol** 1997 May;14(3):342–3. Comment on: Eur J Anaesthesiol 1996 Sep;13(5):536.

Bilateral blindness due to trauma in Cambodia. Jackson H. **Eye** 1996;10 (Pt 4):517–20

Immunity causing blindness: five different paths to herpes stromal keratitis. Streilein JW, et al. **Immunol Today** 1997 Sep;18(9):443–9 (51 ref.)

Gaze-evoked amaurosis heralding orbital angiomyoma. Case report. Salvi F, et al. **Ital J Neurol Sci** 1997 Feb;18(1):31–4

Amaurosis and pulselessness in a young white woman: a case of Takayasu disease. Charlton JF, et al. **J Am Board Fam Pract** 1997 May-Jun;10(3):227–8

Cortical blindness after electroconvulsive therapy. Rikher KV, et al. **J Am Board Fam Pract** 1997 Mar-Apr; 10(2):141–3

Causes of blindness among Navajo Indians: an update. Rearwin DT, et al. **J Am Optom Assoc** 1997 Aug; 68(8):511–7

Salmonella bacteremia presenting with visual loss [letter] Kulkarni AC, et al. **J Assoc Physicians India** 1995 Jan; 43(1):69–70

Subacute sclerosing panencephalitis presenting as cortical blindness. Sharma S, et al. **J Assoc Physicians India** 1995 Jun;43(6):434

Binocular blindness following dynamic cardiomyoplasty. Robinson RJ, et al. **J Card Surg** 1996 Jan-Feb;11(1):75–8

Orbital emphysema and the medial orbital wall: a review of the literature with particular reference to that associated with indirect trauma and possible blindness. Muhammad JK, et al. **J Craniomaxillofac Surg** 1996 Aug;24(4):245–50 (44 ref.)

Injury to anterior optic pathways. Srivastava VK, et al. **J Indian Med Assoc** 1996 Nov;94(11):410–3

Recurrent chiasmal apoplexy due to cavernous malformation. Warner JE, et al. **J Neuroophthalmol** 1996 Jun;16(2):99–106 (33 ref.)

Unilateral blindness due to patient positioning during cervical syringomyelia surgery: unilateral blindness after prone position. Bekar A, et al. **J Neurosurg Anesthesiol** 1996 Jul; 8(3):227–9

Prospective study of New Zealand very low birthweight infants: outcome at 7–8 years. Darlow BA, et al. **J Paediatr Child Health** 1997 Feb;33(1):47–51

Prevalence and aetiology of neurological impairment in extremely low birthweight infants [see comments] Waugh J, et al. **J Paediatr Child Health** 1996 Apr;32(2):120–4. Comment in: J Paediatr Child Health 1996 Dec;32(6):545–6.

Uniocular childhood blindness: a prospective study. Mulvihill A, et al. **J Pediatr Ophthalmol Strabismus** 1997 Mar-Apr; 34(2):111–4

Cortical blindness as a complication of acute glomerulonephritis. Stallworth JR, et al. **J S C Med Assoc** 1997 Mar;93(3):99–101

From the Centers for Disease Control and Prevention. Blindness caused by diabetes--Massachusetts, 1987–1994. **JAMA** 1996 Dec 18;276(23):1865–6

A blinding headache. Embil JM, et al. **Lancet** 1997 Jul 19; 350(9072):182

Lung cancer-induced blindness. Thirkill CE. **Lung Cancer** 1996 Jun;14(2–3):253–64 (79 ref.)

Glaucoma: a preventable cause of blindness. Higginbotham EJ. **Md Med J** 1997 Sep;46(8):412–4

Blinding laser weapons. Peters A. **Med Confl Surviv** 1996 Apr-Jun;12(2):107–13

Blindness caused by diabetes--Massachusetts, 1987–1994. **MMWR Morb Mortal Wkly Rep** 1996 Nov 1;45(43):937–41

Transient bilateral cortical blindness as a presenting symptom of infective endocarditis [letter] Stalenhoef AF, et al. **Neth J Med** 1996 Apr;48(4):163–4

Pathogenesis of acute monocular blindness from leaking anterior communicating artery aneurysms: report of six cases. Chan JW, et al. **Neurology** 1997 Mar;48(3):680–3

Immunology and ocular manifestations of giant cell arteritis [letter] Barchuk WT, et al. **Ocul Immunol Inflamm** 1997 Jun;5(2):141–6

Causes of blindness in northwest Cambodia [see comments] Jackson H, et al. **Ophthalmic Epidemiol** 1997 Mar; 4(1):27–32. Comment in: Ophthalmic Epidemiol 1997 Mar;4(1):1–2.

Prevalence and causes of blindness in the South Australian population aged 50 and over. Newland HS, et al. **Ophthalmic Epidemiol** 1996 Jun;3(2):97–107

Blindness and the coward's weapon [editorial; comment] Schwab L. **Ophthalmic Epidemiol** 1997 Mar;4(1):1–2. Comment on: Ophthalmic Epidemiol 1997 Mar;4(1):27–32.

Blinding laser weapons. Zwaan J. **Ophthalmic Surg Lasers** 1997 Jan;28(1):79–80

Mass blindness has shifted from infection (onchocerciasis, trachoma, corneal ulcers) to cataract [letter] Lim AS. **Ophthalmologica** 1997;211(4):270

Postprandial transient visual loss. A symptom of critical carotid stenosis. Levin LA, et al. **Ophthalmology** 1997 Mar; 104(3):397–401

A long-term approach to eliminate cataract blindness [editorial] Robin AL, et al. **Ophthalmology** 1997 Apr; 104(4):571–2

Delayed blindness after facial fracture repair. Li KK, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):251–3

Deafness and blindness in a HIV-positive patient with cryptococcal meningitis [letter] Prada JL, et al. **Postgrad Med J** 1996 Sep;72(851):575

Status epilepticus amauroticus secondary to meningitis as a cause of postpartum cortical blindness. Goldstein MJ, et al. **Reg Anesth** 1996 Nov-Dec;21(6):595–8

Major blinding complication of acquired immune deficiency syndrome (AIDS) [letter] Akduman L, et al. **Retina** 1997; 17(2):167–8

Bilateral blindness in Takayasu's disease. Rodríguez-Pla A, et al. **Scand J Rheumatol** 1996;25(6):394–5

Visual loss as a complication of spine surgery. A review of 37 cases. Myers MA, et al. **Spine** 1997 Jun 15;22(12):1325–9

Ophthalmic complications after spinal surgery. Stevens WR, et al. **Spine** 1997 Jun 15;22(12):1319–24

Amaurosis fugax in the young. [Clinical Conference] Slavin ML. **Surv Ophthalmol** 1997 May-Jun;41(6):481–7

Survey of blindness in rural communities of south-western Nigeria. Adeoye A. **Trop Med Int Health** 1996 Oct; 1(5):672–6

[Carbon dioxide embolism during hysteroscopy followed by transient blindness] Ghimouz A, et al. **Ann Fr Anesth Reanim** 1996;15(2):192–5 (20 ref.) (Eng. Abstr.) **(Fre)**

[Blindness in children in Antananarivo 1988–1993] Rasikindrahona RE, et al. **Rev Int Trach Pathol Ocul Trop Subtrop Sante Publique** 1995;72:113–20 (Eng. Abstr.) **(Fre)**

[Temporal trends in the etiology of blindness] Krumpaszky HG. **Klin Monatsbl Augenheilkd** 1997 Feb;210(2):aA9–16 (16 ref.) (Eng. Abstr.) **(Ger)**

[A case of internal carotid artery occlusion with recurrent amaurosis fugax] Hashimoto Y, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1147–50 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Reversible cortical blindness associated with bilateral occipital lesions caused by cyclosporin A: report of two cases] Tamayo JA, et al. **Neurologia** 1997 Feb;12(2):89–91 (Eng. Abstr.) **(Spa)**

GENETICS

Norrie disease in a family with a manifesting female carrier. Sims KB, et al. **Arch Ophthalmol** 1997 Apr;115(4):517–9

Three novel and two recurrent mutations of the Norrie disease gene in patients with Norrie syndrome. Fuchs S, et al. **Hum Mutat** 1996;8(1):85–8

Norrie disease gene mutation in a large Costa Rican kindred with a novel phenotype including venous insufficiency. Rehm HL, et al. **Hum Mutat** 1997;9(5):402–8

Identification of novel missense mutations in the Norrie disease gene associated with one X-linked and four sporadic cases of familial exudative vitreoretinopathy. Shastry BS, et al. **Hum Mutat** 1997;9(5):396–401

Leber's congenital amaurosis in 22 affected members of one family. al-Salem M. **J Pediatr Ophthalmol Strabismus** 1997 Jul-Aug;34(4):254–7

Comparative analysis of Pax-6 sequence and expression in the eye development of the blind cave fish Astyanax fasciatus and its epigean conspecific. Behrens M, et al. **Mol Biol Evol** 1997 Mar;14(3):299–308

Two novel mutations in the Norrie disease gene associated with the classical ocular phenotype. Caballero M, et al. **Ophthalmic Genet** 1996 Dec;17(4):187–91

Ocular phenotypes associated with two mutations (R121W, C126X) in the Norrie disease gene. Kellner U, et al. **Ophthalmic Genet** 1996 Jun;17(2):67–74

Histopathological and immunohistochemical findings associated with a null mutation in the Norrie disease gene. Schroeder B, et al. **Ophthalmic Genet** 1997 Jun;18(2):71–7

Peripheral retinopathy in offspring of carriers of Norrie disease gene mutations. Possible transplacental effect of abnormal Norrin. Mintz-Hittner HA, et al. **Ophthalmology** 1996 Dec;103(12):2128–34

HISTORY

First cornea transplants meant blind WW I veterans saw first sights in 40 years [see comments] Wilton P. **Can Med Assoc J** 1996 Nov 1;155(9):1325–6. Comment in: Can Med Assoc J 1997 Mar 1;156(5):631–2.

Bid my eyes keep holiday. Aronson SM. **Med Health R I** 1996 Feb;79(2):44–5

METABOLISM

Brain energy metabolism in early blind subjects: neural activity in the visual cortex. De Volder AG, et al. **Brain Res** 1997 Mar 7;750(1–2):235–44

MICROBIOLOGY

Mass blindness has shifted from infection (onchocerciasis, trachoma, corneal ulcers) to cataract [letter] Lim AS. **Ophthalmologica** 1997;211(4):270

MORTALITY

Diabetes as a predictor of mortality in a cohort of blind subjects. Trautner C, et al. **Int J Epidemiol** 1996 Oct; 25(5):1038–43

[Epidemiology of blindness, especially in diabetes--overview of current studies] Icks A, et al. **Gesundheitswesen** 1996 Feb;58(2):85–90 (32 ref.) (Eng. Abstr.) **(Ger)**

PARASITOLOGY

Neurocysticercosis. Chandra P, et al. **J Indian Med Assoc** 1996 Feb;94(2):82

PATHOLOGY

Transsynaptic degeneration of lateral geniculate bodies in blind children: in vivo MR demonstration. Uggetti C, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):233–8

Multihandicapped blind and partially sighted children in south Germany. II: Aetiology and pathogenesis. Häussler M, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1076–90

Blindness, deafness, quadriparesis, and a retinal malformation: the ravages of neurofibromatosis 2. Rettele GA, et al. **Surv Ophthalmol** 1996 Sep-Oct;41(2):135–41

PHYSIOPATHOLOGY

Neurophysiologic evaluation of cyclosporine toxicity associated with bone marrow transplantation [corrected and republished article originally printed in Acta Neurol Scand 1995 Nov;92(5):423–9] Edwards LL, et al. **Acta Neurol Scand** 1996 Nov;94(5):358–64 (22 ref.)

Full-field electroretinograms in a family with Mohr-Tranebjaerg syndrome. Ponjavic V, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):632–5

Vision in patients with leber congenital amaurosis [letter; comment] Lambert SR, et al. **Arch Ophthalmol** 1997 Feb; 115(2):293–4. Comment on: Arch Ophthalmol 1996 Jun;114(6):698–703.

Blindsight in man and monkey. Stoerig P, et al. **Brain** 1997 Mar;120 (Pt 3):535–59 (173 ref.)

Event-related potentials during auditory and somatosensory discrimination in sighted and blind human subjects. Röder B, et al. **Brain Res Cogn Brain Res** 1996 Sep;4(2):77–93

Multihandicapped blind and partially sighted children in south Germany. I: Prevalence, impairments and ophthalmological findings. Häussler M, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1068–75

Prognostic value of visual evoked potentials (VEP) in infants with visual inattentiveness. Iinuma K, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 104(2):165–70

Circular trajectory formation during blind locomotion: a test for path integration and motor memory. Takei Y, et al. **Exp Brain Res** 1997 Jun;115(2):361–8

Middle latency auditory evoked potentials in congenitally blind and normal sighted subjects. Naveen KV, et al. **Int J Neurosci** 1997 Jun;90(1–2):105–11

Case report: neurochemical, physiological, and behavioral effects of bright light therapy on a cortically blind patient. Parker JS, et al. **Int J Neurosci** 1996 Dec;88(3–4):273–82

Changes in sleep spindle activity of subject with chronic somatosensitive and sensorial deficits. Preliminary results. Scrofani A, et al. **Ital J Neurol Sci** 1996 Dec;17(6):423–8

Relationship between napping and melatonin in the blind. Lockley SW, et al. **J Biol Rhythms** 1997 Feb;12(1):16–25

Hearing in blind subterranean Zambian mole-rats (Cryptomys sp.): collective behavioural audiogram in a highly social rodent. Brückmann G, et al. **J Comp Physiol [A]** 1997 Jul;181(1):83–8

Blindness and sleep patterns [letter] Leger D, et al. **Lancet** 1996 Sep 21;348(9030):830–1

Early visual experience affects memorization and spatial representation of proprioceptive targets. Rossetti Y, et al. **Neuroreport** 1996 Apr 26;7(6):1219–23

Early-blind subjects' spatial representation of manipulatory space: exploratory strategies and reaction to change. Gaunet F, et al. **Perception** 1997;26(3):345–66

Early-blind subjects' spatial abilities in the locomotor space: exploratory strategies and reaction-to-change performance. Gaunet F, et al. **Perception** 1996;25(8):967–81

Electrophysiological evidence for cross-modal plasticity in humans with early- and late-onset blindness. Kujala T, et al. **Psychophysiology** 1997 Mar;34(2):213–6

Different cortical activation patterns in blind and sighted humans during encoding and transformation of haptic images. Röder B, et al. **Psychophysiology** 1997 May; 34(3):292–307

Varieties of vision: from blind responses to conscious recognition [see comments] Stoerig P. **Trends Neurosci** 1996 Sep;19(9):401–6 (52 ref.). Comment in: Trends Neurosci 1997 Jan;20(1):22–3.

[Dependence of equivalent sources of different alpha-rhythm subbands on the status of the visual system in eight- to ten-year-old children] Tolstova VA, et al. **Fiziol Cheloveka** 1996 Sep-Oct;22(5):13–9 **(Rus)**

[The effect of the blinding of rats on the dynamics of short-period rhythmic processes with removal of the

epiphysis] Arushanian EB, et al.
Fiziol Zh Im I M Sechenova 1996 Apr;82(4):75–80 (Eng. Abstr.) **(Rus)**
[Reversible cortical blindness associated with bilateral occipital lesions caused by cyclosporin A: report of two cases] Tamayo JA, et al. **Neurologia** 1997 Feb;12(2):89–91 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Active prevention in diabetic eye disease. A 4–year follow–up. Kristinsson JK, et al.
Acta Ophthalmol Scand 1997 Jun;75(3):249–54
Prevention of blindness in leprosy: an overview of the relevant clinical and programme–planning issues. Lewallen S. **Ann Trop Med Parasitol** 1997 Jun;91(4):341–8 (15 ref.)
A diabetic retinopathy screening program as a strategy for blindness prevention. González Villalpando C, et al.
Arch Med Res 1997 Spring;28(1):129–35
Barriers to prevention of vision loss caused by diabetic retinopathy [editorial] Klein R. **Arch Ophthalmol** 1997 Aug; 115(8):1073–5
Cataract blindness: how eye surgeons can address the global problem [letter] Lim AS. **Arch Ophthalmol** 1996 Oct; 114(10):1299–300
Reducing vitamin A deficiency [editorial] Potter AR.
BMJ 1997 Feb 1;314(7077):317–8
Cost effectiveness and cost utility of preventing trachomatous visual impairment: lessons from 30 years of trachoma control in Burma. Evans TG, et al. **Br J Ophthalmol** 1996 Oct;80(10):880–9
Monitoring and evaluating cataract intervention in India. Limburg H, et al. **Br J Ophthalmol** 1996 Nov;80(11):951–5
Low–dose corticosteroids and blindness in giant cell arteritis [letter] González–Gay MA, et al. **Br J Rheumatol** 1996 Jul;35(7):702–3
Cataract free zone and primary health care approach to prevention of blindness in Shunyi county of Beijing. Hu C, et al. **Chin Med J (Engl)** 1996 Jul;109(7):561–5
Detection of sight–threatening diabetic eye disease. Leese GP, et al. **Diabet Med** 1996 Oct;13(10):850–3 (42 ref.)
Experience in pilot project in Purnea District. Limburg H, et al. **Indian J Ophthalmol** 1996 Jun;44(2):117–21 (0 ref.)
A primary care team approach to the prevention of ocular complications of diabetes: a program review. Bowyer NK. **J Am Optom Assoc** 1997 Apr;68(4):233–42
Blindness—the Indian scenario and plans to combat [editorial] Bhaduri G, et al. **J Indian Med Assoc** 1996 Nov; 94(11):401–2
Prevention of blindness: a lost opportunity [editorial] Burns–Cox J. **J Med Screen** 1996;3(4):169
Glaucoma blindness in African Americans: have 55 years of therapies, technologies, and talent altered blindness rates? Merritt JC. **J Natl Med Assoc** 1996 Dec; 88(12):809–19 (56 ref.)
Reversing blindness—one child at a time [editorial] Amin HI, et al. **J Pediatr Ophthalmol Strabismus** 1997 Jul–Aug; 34(4):206–7
Increasing local economic resources for sustainable primary eye care services in developing countries: the concept of a 'sight tax' revisited [editorial] Smith AF, et al.
Ophthalmic Epidemiol 1996 Jun;3(2):61–2
Communication screening in older adults with vision loss. Bennett D, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):1097–8
Spotting diabetic retinopathies. Alexander W. **Practitioner** 1997 May;241(1574):280–3
A limited free eye test? [editorial] Harrison R.
Practitioner 1997 Apr;241(1573):171
Altruism drives Madison ophthalmologist to stamp out preventable blindness in Third World. McCollum C.
Wis Med J 1996 Aug;95(8):543–4
Perceptions of blindness. Alemayehu W, et al.
World Health Forum 1996;17(4):379–81
Forecasting cataract blindness—and planning to combat it. Limburg H, et al. **World Health Forum** 1996;17(1):15–20
Looking after eyes: the primary task. Al Tuwaijri A.
World Health Forum 1996;17(1):21–4
[Recent progress in psychosensory rehabilitation of low vision. The third method for the prevention of blindness] Langlois J. **Bull Acad Natl Med** 1997 Apr;181(4):699–707; discussion 708–12 (16 ref.) (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Blind rats are not profoundly impaired in the reference memory Morris water maze and cannot be clearly discriminated from rats with cognitive deficits in the cued platform task. Lindner MD, et al.
Brain Res Cogn Brain Res 1997 Jun;5(4):329–33
Blindsight in hindsight. Tapp TD. **Conscious Cogn** 1997 Mar; 6(1):67–74
An orientation to vision loss program: meeting the needs of newly visually impaired older adults. Kleinschmidt JJ. **Gerontologist** 1996 Aug;36(4):534–8
Symbol recognition produced by points of tactile stimulation: the illusion of linear continuity. Gonzales GR.
Mayo Clin Proc 1996 Nov;71(11):1039–46
Long lasting blindness, availability of resources, and early aging. Bachar E, et al. **Percept Mot Skills** 1997 Apr; 84(2):675–88 (77 ref.)
Dichaptic scanning of Braille letters by skilled blind readers: lateralization effects. Semenza C, et al.
Percept Mot Skills 1996 Jun;82(3 Pt 2):1071–4
Production and interpretation of perspective drawings by blind and sighted people. Heller MA, et al. **Perception** 1996; 25(3):321–34
Representation of space in blind persons: vision as a spatial sense? Thinus–Blanc C, et al. **Psychol Bull** 1997 Jan; 121(1):20–42 (150 ref.)
[When blind patients see...—(atypical) Charles–Bonnet syndrome] Gross A, et al. **Psychiatr Prax** 1997 May; 24(3):151–2 **(Ger)**

REHABILITATION

Eye surgeons—seize the opportunity [editorial] Lim AS.
Am J Ophthalmol 1996 Oct;122(4):571–3
Artificial retina design restores sight to blind.
Biomed Instrum Technol 1997 Mar–Apr;31(2):169–70
A system for converting print into braille. Blenkhorn P.
IEEE Trans Rehabil Eng 1997 Jun;5(2):121–9
An affordable digital–display–to–natural–voice converter for visually impaired radio amateurs. Lacquet BM, et al.
IEEE Trans Rehabil Eng 1996 Dec;4(4):438–9
Automatic visual to tactile translation—Part I: Human factors, access methods, and image manipulation. Way TP, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):81–94 (90 ref.)
Automatic visual to tactile translation—Part II: Evaluation of the TACTile Image Creation System. Way TP, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):95–105
What is eye banking? [editorial] Rao GN.
Indian J Ophthalmol 1996 Mar;44(1):1–2
Use of an acoustic orientation system by two adolescents with blindness and mental retardation: a 12–month follow–up. Lancioni GE, et al. **Int J Rehabil Res** 1997 Jun; 20(2):217–20
Computer use in schools for the blind in Japan. Kobayashi I, et al. **Psychol Rep** 1996 Apr;78(2):419–26
Initiating requests during community–based vocational training by students with mental retardation and sensory impairments. Heller KW, et al. **Res Dev Disabil** 1996 May–Jun;17(3):173–84
[Perspectives in the rehabilitation of vision in blind subjects] Veraart CL. **Bull Mem Acad R Med Belg** 1996; 151(2):175–85 (Eng. Abstr.) **(Fre)**
[Use of a new optoelectronic vision aid for highly visually handicapped patients] Rohrschneider K, et al.
Klin Monatsbl Augenheilkd 1997 Feb;210(2):105–10 (Eng. Abstr.) **(Ger)**
[Social status of visually handicapped patients in new combined federal Germany—a comparison with the status before 1990] Walther HR, et al. **Rehabilitation (Stuttg)** 1996 Aug;35(3):161–9 (Eng. Abstr.) **(Ger)**
[Ways of optimizing microclimate in vocational training enterprise of the All–Russian Society of the Blind] Butovskiĭ ME, et al. **Gig Sanit** 1997 Jan–Feb;(1):19–21 **(Rus)**

SURGERY

Eye donation and IMA [letter] Vasavada YI.
J Indian Med Assoc 1996 Dec;94(12):458
Reversal of blindness after facial fracture repair by prompt optic nerve decompression. Li KK, et al.
J Oral Maxillofac Surg 1997 Jun;55(6):648–50
Endoscopic approach to traumatic visual loss. Kountakis SE, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):652–5

THERAPY

Treating Third World cataract blindness [letter] Brian G, et al. **Aust N Z J Ophthalmol** 1997 Aug;25(3):245–6
Case report: neurochemical, physiological, and behavioral effects of bright light therapy on a cortically blind patient. Parker JS, et al. **Int J Neurosci** 1996 Dec;88(3–4):273–82
Ocular quinine toxicity treated with hyperbaric oxygen. Wolff RS, et al. **Undersea Hyperb Med** 1997 Jun; 24(2):131–4

VETERINARY

Characterization and mapping of the mouse NDP (Norrie disease) locus (Ndp). Battinelli EM, et al.
Mamm Genome 1996 Feb;7(2):93–7
Selenium–induced "blind staggers" and related myths. A commentary on the extent of historical livestock losses attributed to selenosis on western US rangelands. O'Toole D, et al. **Vet Pathol** 1996 Jan;33(1):109–16 (163 ref.)

BLINKING

Reflex studies and MRI in the restless legs syndrome. Bucher SF, et al. **Acta Neurol Scand** 1996 Aug;94(2):145–50
Soft lens movement: effect of blink rate on lens settling. Golding TR, et al. **Acta Ophthalmol Scand** 1995 Dec; 73(6):506–11
The effect of acoustic pulse intensity upon the electrically elicited blink reflex at positive and negative stimulus onset asynchronies. Schmolesky MT, et al. **Biol Psychol** 1996 Oct 31;44(2):69–84
Blink reflex in meningomyelocele, with special reference to its usefulness in the evaluation of brainstem dysfunction. Nishimura T, et al. **Childs Nerv Syst** 1996 Jan;12(1):2–12
Decreased blinking in dry saunas [letter] Tsubota K, et al.
Cornea 1997 Mar;16(2):242–3
The effect of eye closure on protein and complement deposition on Group IV hydrogel contact lenses: relationship to tear flow dynamics. Sack RA, et al.
Curr Eye Res 1996 Nov;15(11):1092–100
Accommodation, convergence, pupil diameter and eye blinks at a CRT display flickering near fusion limit. Jaschinski W, et al. **Ergonomics** 1996 Jan;39(1):152–64
Types and tokens in visual processing: a double dissociation between the attentional blink and repetition blindness. Chun MM. **J Exp Psychol Hum Percept Perform** 1997 Jun; 23(3):738–55
Associative priming by targets and distractors during rapid serial visual presentation: does word meaning survive the attentional blink? Maki WS, et al.
J Exp Psychol Hum Percept Perform 1997 Aug; 23(4):1014–34
Electrophysiological investigation of hemifacial spasm after microvascular decompression: F waves of the facial muscles, blink reflexes, and abnormal muscle responses. Ishikawa M, et al. **J Neurosurg** 1997 Apr;86(4):654–61
Pain–evoked blink reflex. Ellrich J, et al. **Muscle Nerve** 1997 Mar;20(3):265–70
Reduced brain stem excitability in mitochondrial myopathy: evidence for early detection with blink reflex habituation studies. Koutroumanidis M, et al. **Muscle Nerve** 1996 Dec; 19(12):1586–95
Axon reflexes or ephaptic responses simulating blink reflex R1 after XII–VII nerve anastomosis. Montero J, et al.
Muscle Nerve 1996 Jul;19(7):848–52
Unsuspected V nerve lesion resulting from perineural cancer spread detected by blink reflex. Sheikh FS, et al.
Muscle Nerve 1996 Dec;19(12):1623–5
Late blink reflex changes in lesions of thalamus and internal capsule. Chia LG. **Neurology** 1997 Sep;49(3):874–6
Eyeblink activity in a word–naming task as a function of semantic priming and cognitive load. Ohira H.
Percept Mot Skills 1996 Jun;82(3 Pt 1):835–42
Eyeblinks in formation of impressions. Omori Y, et al.
Percept Mot Skills 1996 Oct;83(2):591–4
Number of trials needed to assess human eyeblink classical conditioning. Papka M, et al. **Psychol Aging** 1996 Jun; 11(2):373–6

DRUG EFFECTS

Hippocampus in delay eyeblink classical conditioning: essential for nefiracetam amelioration of learning in older rabbits. Woodruff–Pak DS, et al. **Brain Res** 1997 Feb 7; 747(2):207–18
The effect of levodopa on the habituation of the acoustic–palpebral reflex in Parkinson's disease. Rey RD, et al. **Electromyogr Clin Neurophysiol** 1996 Sep; 36(6):357–60
Different effects of levodopa and apomorphine on blink reflex recovery cycle in essential blepharospasm. Napolitano A, et al. **Eur Neurol** 1997;38(2):119–22
The effects of tobacco smoking on the short, middle, and long latency responses of the blink reflex in humans. Leon–S FE, et al. **J Clin Neurophysiol** 1997 Mar; 14(2):144–9
The Guinea Pig Blinking Test: a comparison with human responses. Bar–Ilan A. **J Ocul Pharmacol Ther** 1997 Jun; 13(3):207–12
Differential effects of direct and indirect dopamine agonists on eye blink rate in cynomolgus monkeys. Kleven MS, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1211–9
The effects of shounousui on the three responses of the blink reflex in man. Leon–S FE, et al. **Muscle Nerve** 1997 Jan; 20(1):110–2
The NMDA antagonist memantine impairs classical eyeblink conditioning in humans. Schugens MM, et al.
Neurosci Lett 1997 Mar 7;224(1):57–60
Metrifonate treatment enhances acquisition of eyeblink conditioning in aging rabbits. Kronforst–Collins MA, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):103–10
The conditioned eyeblink response: a role for the GABA–B receptor? Ramirez OA, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):127–32
Disruption of trace conditioning of the nictitating membrane response in rabbits by central cholinergic blockade. Kaneko T, et al. **Psychopharmacology (Berl)** 1997 May;131(2):161–6

PHYSIOLOGY

Startle syndrome: the blink reflex study suggests the private involvement of lower brainstem in the pathophysiology [letter] Gatzonis S, et al. **Acta Neurol Scand** 1996 Apr; 93(4):303–5
Blinking is controlled primarily by ocular surface conditions. Nakamori K, et al. **Am J Ophthalmol** 1997 Jul;124(1):24–30
The role of blink adaptation in the pathophysiology of benign essential blepharospasm. Hasan SA, et al.
Arch Ophthalmol 1997 May;115(5):631–6
Neural substrates of discriminative avoidance learning and classical eyeblink conditioning in rabbits: a double dissociation. Gabriel M, et al. **Behav Brain Res** 1996 Dec; 82(1):23–30
Involvement of the ventrolateral thalamic nucleus in rabbit classical eyeblink conditioning. Sears LL, et al.
Behav Brain Res 1996 Jan;74(1–2):105–17
Early acquisition, but not retention, of the classically conditioned eyeblink response is N–methyl–D–aspartate

(NMDA) receptor dependent. Servatius RJ, et al. **Behav Neurosci** 1996 Oct;110(5):1040–8

Classic conditioning in aged rabbits: delay, trace, and long–delay conditioning. Solomon PR, et al. **Behav Neurosci** 1996 Jun;110(3):427–35

Blink rate in children with attention–deficit–hyperactivity disorder. Caplan R, et al. **Biol Psychiatry** 1996 Jun 15; 39(12):1032–8

Blink rate, neurocognitive impairments, and symptoms in schizophrenia. Chen EY, et al. **Biol Psychiatry** 1996 Oct 1;40(7):597–603

Blink rate in childhood–onset schizophrenia: comparison with normal and attention–deficit hyperactivity disorder controls. Jacobsen LK, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1222–9

The late blink reflex response abnormality due to lesion of the lateral tegmental field. Aramideh M, et al. **Brain** 1997 Sep;120 (Pt 9):1685–92

Patients with cerebellar lesions cannot acquire but are able to retain conditioned eyeblink reflexes. Bracha V, et al. **Brain** 1997 Aug;120 (Pt 8):1401–13

Bilateral coupling in learned blinking: side superiority, synchrony and temporal coordination in normal cats. Spidalieri G, et al. **Brain Res** 1997 Jan 23;746(1–2):34–42

Rigid lens dynamics: lid effects. Carney LG, et al. **CLAO J** 1997 Jan;23(1):69–77

Limitations of in vitro contact lens dehydration/rehydration data in predicting on–eye dehydration. McConville P, et al. **CLAO J** 1997 Apr;23(2):117–21

Polymorphonuclear leukocyte cells and elastase in tears. Sakata M, et al. **Curr Eye Res** 1997 Aug;16(8):810–9

Effect of photic conditioning on blink reflex recovery function in blepharospasm. Katayama M, et al. **Electroencephalogr Clin Neurophysiol** 1996 Oct; 101(5):446–52

Postpulse effects on blink reflex responses. Valls–Solé J, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec; 101(6):504–10

The origin of R2 of the blink reflex recorded on the affected side of patients with complete facial nerve paralysis. Ibrahim IK, et al. **Electromyogr Clin Neurophysiol** 1997 Apr–May;37(3):185–91

Time on task and blink effects on saccade duration. McGregor DK, et al. **Ergonomics** 1996 Apr;39(4):649–60

Identification and characterization of rat orbicularis oculi motoneurons using confocal laser scanning microscopy. Faulkner B, et al. **Exp Brain Res** 1997 Aug;116(1):10–9

Blink reflex to supraorbital nerve stimulation in the cat. LeDoux MS, et al. **Exp Brain Res** 1997 Aug;116(1):104–12

To blink or not to blink: inhibition and facilitation of reflex blinks. Powers AS, et al. **Exp Brain Res** 1997 Feb; 113(2):283–90

Validity of Listing's law during fixations, saccades, smooth pursuit eye movements, and blinks. Straumann D, et al. **Exp Brain Res** 1996 Nov;112(1):135–46

Trigeminal inputs to eyeblink motoneurons in the rabbit. van Ham JJ, et al. **Exp Neurol** 1996 Dec;142(2):244–57

gamma Isoform–selective changes in PKC immunoreactivity after trace eyeblink conditioning in the rabbit hippocampus. Van der Zee EA, et al. **Hippocampus** 1997;7(3):271–85

Habituation of P300 and reflex motor (startle blink) responses to repetitive startling stimuli in children. Hirano C, et al. **Int J Psychophysiol** 1996 Apr–May;22(1–2):97–109

Preservation of photic blink reflex in Leber's hereditary optic neuropathy. Nakamura M, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2736–43

Age–related changes in human blinks. Passive and active changes in eyelid kinematics. Sun WS, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):92–9

Blink reflex in cerebral palsy: evaluation of late components in patients with normal auditory brainstem responses. Inagaki M, et al. **J Child Neurol** 1996 May;11(3):205–9

Blink reflex in patients with Wallenberg's syndrome. Vila N, et al. **J Neurol** 1997 Jan;244(1):30–4

Trigemino–cervical reflexes in normal subjects. Ertekin C, et al. **J Neurol Sci** 1996 Nov;143(1–2):84–90

Enhanced synaptic transmission in CA1 hippocampus after eyeblink conditioning. Power JM, et al. **J Neurophysiol** 1997 Aug;78(2):1184–7

Animal model explains the origins of the cranial dystonia benign essential blepharospasm. Schicatano EJ, et al. **J Neurophysiol** 1997 May;77(5):2842–6

Lateralization and behavioral correlation of changes in regional cerebral blood flow with classical conditioning of the human eyeblink response. Schreurs BG, et al. **J Neurophysiol** 1997 Apr;77(4):2153–63

An explanation for reflex blink hyperexcitability in Parkinson's disease. I. Superior colliculus. Basso MA, et al. **J Neurosci** 1996 Nov 15;16(22):7308–17

An explanation for reflex blink hyperexcitability in Parkinson's disease. II. Nucleus raphe magnus. Basso MA, et al. **J Neurosci** 1996 Nov 15;16(22):7318–30

Trace eyeblink conditioning increases CA1 excitability in a transient and learning–specific manner. Moyer JR Jr, et al. **J Neurosci** 1996 Sep 1;16(17):5536–46

Neuronal activity in the medial prefrontal cortex during Pavlovian eyeblink and nictitating membrane conditioning. Powell DA, et al. **J Neurosci** 1996 Oct 1;16(19):6296–306

Adaptation of a commercial penlight for ophthalmic examinations. Zwaan J. **J Pediatr Ophthalmol Strabismus** 1996 Jul–Aug;33(4):266–7

Blink reflex excitability is abnormal in patients with periodic leg movements in sleep. Briellmann RS, et al. **Mov Disord** 1996 Nov;11(6):710–4

Supranuclear palsy of voluntary eyelid closure: electrophysiological correlate [letter] Grandas F, et al. **Mov Disord** 1996 May;11(3):329–31

Trace eyeblink conditioning in rabbits demonstrates heterogeneity of learning ability both between and within age groups. Thompson LT, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):619–29

Conditioned enhancement of the early component of the rat eyeblink reflex. Lam YW, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):212–20

The contribution of stressor intensity, duration, and context to the stress–induced facilitation of associative learning. Shors TJ, et al. **Neurobiol Learn Mem** 1997 Jul;68(1):92–6

Vagal activity predicts eyeblink conditioning in human subjects. Tapp W, et al. **Neuroreport** 1997 Mar 24; 8(5):1203–7

Creation of a defense dominant during the functioning of a blink dominant in the rabbit. Roshchina GYa. **Neurosci Behav Physiol** 1996 Jul–Aug;26(4):349–56

Corneal reflex responses to mechanical and electrical stimuli in coma and narcotic analgesia in humans. Cruccu G, et al. **Neurosci Lett** 1997 Jan 24;222(1):33–6

Changes in eye blink responses following hypoglossal–facial anastomosis in the cat: evidence of adult mammal motoneuron unadaptability to new motor tasks. Gruart A, et al. **Neuroscience** 1996 Jul;73(1):233–47

Inhibition of the blink reflex R2 component after supraorbital and index finger stimulations is reduced in cluster headache: an indication for both segmental and suprasegmental dysfunction? Lozza A, et al. **Pain** 1997 May;71(1):81–8

Electrophysiological brainstem dysfunction in a child with Leigh disease. Araki S, et al. **Pediatr Neurol** 1997 May; 16(4):329–33

Hippocampal acetylcholine increases during eyeblink conditioning in the rabbit. Meyer JJ, et al. **Physiol Behav** 1996 Nov;60(5):1199–203

Involvement of cerebellar cortex and nuclei in the genesis and control of unconditioned and conditioned eyelid motor responses. Gruart A, et al. **Prog Brain Res** 1997;114:511–28

Prepulse inhibition decreases as startle reactivity habituates. Blumenthal TD. **Psychophysiology** 1997 Jul;34(4):446–50

Prepulse effects on the photic eyeblink reflex: evidence for startle–dazzle theory. Burke J, et al. **Psychophysiology** 1997 May;34(3):276–84

Distinct early and late subcomponents of the photic blink reflex: response characteristics in patients with retrogeniculate lesions. Hackley SA, et al. **Psychophysiology** 1996 May;33(3):239–51

Fear and the startle reflex: blink modulation and autonomic response patterns in animal and mutilation fearful subjects. Hamm AO, et al. **Psychophysiology** 1997 Jan;34(1):97–107

Affective modulation of tactile startle. Hawk LW, et al. **Psychophysiology** 1997 Jan;34(1):23–31

Tracking early and late stages of information processing: contributions of startle eyeblink reflex modification. Jennings PD, et al. **Psychophysiology** 1996 Mar; 33(2):148–55

The effect of emotional and attentional processes on blink startle modulation and on electrodermal responses. Lipp OV, et al. **Psychophysiology** 1997 May;34(3):340–7

The effect of unconditional stimulus modality and intensity on blink startle and electrodermal responses. Siddle DA, et al. **Psychophysiology** 1997 Jul;34(4):406–13

Effects of foreperiod duration on reflexive and voluntary responses to intense noise bursts. Sollers JJ 3rd, et al. **Psychophysiology** 1997 Sep;34(5):518–26

Cerebellar circuits and synaptic mechanisms involved in classical eyeblink conditioning. Kim JJ, et al. **Trends Neurosci** 1997 Apr;20(4):177–81 (62 ref.)

Electrically induced blink reflex in horses. Añor S, et al. **Vet Rec** 1996 Dec 21–28;139(25):621–4

Very short–term visual memory via reverberation: a role for the cortico–thalamic excitatory circuit in temporal filling–in during blinks and saccades? Billock VA. **Vision Res** 1997 Apr;37(7):949–53

[Changes in blink reflex (OM) after lesions of the nervous system in various locations] Bilińska M, et al. **Neurol Neurochir Pol** 1997 Jan–Feb;31(1):113–22 (20 ref.) (Eng. Abstr.) **(Pol)**

BLISTER

Oropharyngeal blood blisters are known as angina bullosa haemorrhagica [letter] Gibson J. **BMJ** 1997 May 31; 314(7094):1625

Spontaneous regression of a giant pulmonary bulla [letter; comment] Stănescu D, et al. **Thorax** 1996 Dec;51(12):1283 . Comment on: Thorax 1996 May;51(5):549–50.

CHEMICALLY INDUCED

Diffuse blisters and erosions in a patient with limited scleroderma. Penicillamine–induced pemphigus foliaceus (PIPF). McGovern TW, et al. **Arch Dermatol** 1997 Apr; 133(4):501, 504

Haemorrhagic bullae in a patient with lichen sclerosus et atrophicus treated with streptokinase. Dunn HM, et al. **Heart** 1996 Nov;76(5):448

Ultrastructural characterization of sulfur mustard–induced vesication in isolated perfused porcine skin. Monteiro–Riviere NA, et al. **Microsc Res Tech** 1997 May 1;37(3):229–41

Acute poisoning with Diffenbachia picta. Wiese M, et al. **Vet Hum Toxicol** 1996 Oct;38(5):356–8

COMPLICATIONS

[Two cases of tubercle bacilli infected pulmonary bulla] Yanase K, et al. **Kekkaku** 1996 Mar;71(3):277–82 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

The case of 4 year old Will. Prowse J. **Aust Fam Physician** 1997 Jul;26(7):867

DRUG THERAPY

Generalized bullous morphoea. Efficacy of salazopyrin [letter] Micalizzi C, et al. **Clin Exp Dermatol** 1996 May; 21(3):246–7

ENZYMOLOGY

Tryptase concentration in skin blister fluid from patients with bullous skin conditions. Brockow K, et al. **Arch Dermatol Res** 1996 Nov;288(12):771–3

ETIOLOGY

Histopathology of cutaneous changes in non–drug–induced coma. Kato N, et al. **Am J Dermatopathol** 1996 Aug; 18(4):344–50

Superior tarsal conjunctival bullae in cicatricial pemphigoid. Kaye SB, et al. **Am J Ophthalmol** 1997 Mar;123(3):405–7

Deposition of eosinophil granule proteins precedes blister formation in bullous pemphigoid. Comparison with neutrophil and mast cell granule proteins. Borrego L, et al. **Am J Pathol** 1996 Mar;148(3):897–909

Oropharyngeal blood blisters are known as angina bullosa haemorrhagica [letter] Gibson J. **BMJ** 1997 May 31; 314(7094):1625

Nikolsky's sign: is it 'dry' or is it 'wet'? Salopek TG. **Br J Dermatol** 1997 May;136(5):762–7

Complications of ambulatory phlebectomy. Review of 1000 consecutive cases. Olivencia JA. **Dermatol Surg** 1997 Jan; 23(1):51–4

Induction of blister–causing antibodies by a recombinant full–length, but not the extracellular, domain of the pemphigus vulgaris antigen (desmoglein 3). Memar O, et al. **J Immunol** 1996 Oct 1;157(7):3171–7

METABOLISM

Endothelin–1 kinetics in plasma, urine, and blister fluid in burn patients. Wakisaka N, et al. **Ann Plast Surg** 1996 Sep; 37(3):305–9

Pharmacokinetics and penetration into inflammatory fluid of trovafloxacin (CP–99,219). Wise R, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):47–9

Pharmacokinetics of cefetamet in plasma and skin blister fluid. Zimmerli W, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):102–4

Immunohistochemical, ultrastructural, and molecular features of Kindler syndrome distinguish it from dystrophic epidermolysis bullosa. Shimizu H, et al. **Arch Dermatol** 1997 Sep;133(9):1111–7 (47 ref.)

Disposition and effects of flurbiprofen enantiomers in human serum and blister fluid. Oelkers R, et al. **Br J Clin Pharmacol** 1997 Feb;43(2):145–53

Plasma and skin suction–blister–fluid pharmacokinetics and time course of the effects of oral mizolastine. Chosidow O, et al. **Eur J Clin Pharmacol** 1996;50(4):327–33

Eosinophil–colony stimulating activity in blister fluid of bullous pemphigoid. Kawachi Y, et al. **J Dermatol Sci** 1997 May;15(1):51–4

Altered thrombomodulin staining in blistering dermatoses. Jackson DE, et al. **Pathology** 1996 Aug;28(3):225–8

Plasma and skin blister fluid concentrations of metronidazole and its hydroxy metabolite after oral administration. Klimowicz A, et al. **Pol J Pharmacol** 1996 Jan–Feb; 48(1):47–52

PATHOLOGY

Immunohistochemical, ultrastructural, and molecular features of Kindler syndrome distinguish it from dystrophic epidermolysis bullosa. Shimizu H, et al. **Arch Dermatol** 1997 Sep;133(9):1111–7 (47 ref.)

Blistering skin diseases: models for studies on epidermal–dermal adhesion. Bruckner–Tuderman L. **Biochem Cell Biol** 1996;74(6):729–36 (53 ref.)

Kindler's syndrome with recurrence of bullae in the fifth decade [letter] Ban M, et al. **Br J Dermatol** 1996 Sep; 135(3):503–4

Delayed postburn blisters: an immunohistochemical and ultrastructural study. Bergman R, et al. **J Cutan Pathol** 1997 Aug;24(7):429–33

Apoptotic cell death in formation of vesicular skin lesions in patients with acquired zinc deficiency. Mori H, et al. **J Cutan Pathol** 1996 Aug;23(4):359–63

PHYSIOPATHOLOGY

The effect of burn blister fluid on fibroblast contraction. Wilson AM, et al. **Burns** 1997 Jun;23(4):306–12

PREVENTION & CONTROL

Influence of boot-sock systems on frequency and severity of foot blisters. Knapik JJ, et al. **Mil Med** 1996 Oct; 161(10):594–8

SURGERY

Home-made endoloops for bullous lung disease: a case report. Liu HP, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):122–6

[From excision of giant emphysematous lung cysts (giant bullae) to lung volume reduction surgery] Chihara K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):375–7 **(Jpn)**

[A new handpiece attachment for Nd:YAG laser ablation of emphysematous bullae] Kato S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):491–4 (Eng. Abstr.) **(Jpn)**

BLOCH-SULZBERGER SYNDROME see **INCONTINENTIA PIGMENTI**

BLOCKING ANTIBODIES see **ANTIBODIES, BLOCKING**

BLOOD

consider also terms at HEM-

see related
HEMATOPOIESIS
OCCULT BLOOD

A new method for identifying blood meals of human origin in tsetse flies. Diallo BP, et al. **Acta Trop** 1997 Jan; 63(1):61–4

Efficacy of autologous blood injection for treating overfiltering or leaking blebs after glaucoma surgery. Choudhri SA, et al. **Am J Ophthalmol** 1997 Apr; 123(4):554–5

Delayed hyphema and intravitreal blood following intrableb autologous blood injection after trabeculectomy. Flynn WJ, et al. **Am J Ophthalmol** 1997 Jul;124(1):115–6

Plasmacytoma manifesting as recurrent cellulitis and hematic cyst of the orbit. Rappaport K, et al. **Am J Ophthalmol** 1996 Oct;122(4):595–7

Hospital nurses' occupational exposure to blood: prospective, retrospective, and institutional reports. Aiken LH, et al. **Am J Public Health** 1997 Jan;87(1):103–7

High-resolution diffusion and relaxation edited one- and two-dimensional 1H NMR spectroscopy of biological fluids. Liu M, et al. **Anal Chem** 1996 Oct 1;68(19):3370–6

1989: postoperative conduction disturbances: a comparison of blood and crystalloid cardioplegia. Updated in 1997. Gundry SR, et al. **Ann Thorac Surg** 1997 Mar;63(3):901–2

Extracorporeal circulation, hemocompatibility, and biomaterials. Janvier G, et al. **Ann Thorac Surg** 1996 Dec; 62(6):1926–34 (56 ref.)

Is warm retrograde blood cardioplegia better than cold for myocardial protection? Kamlot A, et al. **Ann Thorac Surg** 1997 Jan;63(1):98–104

Effects of blood and crystalloid cardioplegia on adrenergic and myogenic vascular mechanisms. Wang SY, et al. **Ann Thorac Surg** 1997 Jan;63(1):41–9

Social, blood/injury, and agoraphobic fears in patients with physically unexplained chronic pain: are they clinically significant? Asmundson GJ, et al. **Anxiety** 1996;2(1):28–33

Assessment of the quality of frozen serum by spectrophotometric analysis and sperm bioassay. Hossain AM, et al. **Arch Androl** 1997 Sep–Oct;39(2):119–25

Factorial dimensions and correlates of blood, injury, injection and related medical fears: cross validation of the medical fear survey. Kleinknecht RA, et al. **Behav Res Ther** 1996 Apr;34(4):323–31

Overlap between dental anxiety and blood-injury fears: psychological characteristics and response to dental treatment. Locker D, et al. **Behav Res Ther** 1997 Jul; 35(7):583–90

The Blood-Injection Symptom Scale (BISS): assessing a structure of phobic symptoms elicited by blood and injections. Page AC, et al. **Behav Res Ther** 1997 May; 35(5):457–64

Platelet binding and protein adsorption to titanium and gold after short time exposure to heparinized plasma and whole blood. Kanagaraja S, et al. **Biomaterials** 1996 Dec; 17(23):2225–32

Haemospermia and nodular lung metastases without bone involvement: an unusual presentation of prostate carcinoma. Allen FJ, et al. **Br J Urol** 1996 Nov;78(5):801–3

Ultraviolet light and serum induce similar delayed responses that lead to activation of a mitogen-responsive promoter. Hirsch S, et al. **Cell Mol Biol Res** 1995;41(5):441–9

Influence of human serum on the postantifungal effect of four antifungal agents on Candida albicans. Mínguez F, et al. **Chemotherapy** 1996 Jul–Aug;42(4):273–9

Risk for acquiring human granulocytic ehrlichiosis: exposure to deer blood or deer ticks? [letter; comment] Telford SR 3rd. **Clin Infect Dis** 1997 Mar;24(3):531–3. Comment on: Clin Infect Dis 1996 Jul;23(1):198.

Synergistic action of heparin and serum on basic fibroblast growth factor-modulated DNA synthesis and mitochondrial activity of cultured bovine corneal endothelial cells. Hoppenreijs VP, et al. **Cornea** 1996 Jul; 15(4):386–96

Interrupted warm blood cardioplegia [letter; comment] Ali IM. **Eur J Cardiothorac Surg** 1996;10(6):480. Comment on: Eur J Cardiothorac Surg 1995;9(3):133–8.

Influence of blood constituents on uptake of a lipid-extracted natural surfactant by alveolar type II cells. Griese M. **Exp Lung Res** 1997 Sep–Oct;23(5):361–76

PHAS-I phosphorylation in response to foetal bovine serum (FBS) is regulated by an ERK1/ERK2-independent and rapamycin-sensitive pathway in 3T3-L1 adipocytes. Arnott CH, et al. **FEBS Lett** 1997 Apr 7;406(1–2):179–83

Use of leuco crystal violet to enhance shoe prints in blood. Bodziak WJ. **Forensic Sci Int** 1996 Sep 15;82(1):45–52

Blood cyst of the pulmonary valve in an adult: report of a case and review of the literature. Minato H, et al. **Hum Pathol** 1997 Feb;28(2):252–5 (21 ref.)

Effect of medium serum concentration on N1E-115 neuroblastoma membrane potential development [letter] Kisaalita WS, et al. **In Vitro Cell Dev Biol Anim** 1997 Mar; 33(3):152–5

Serum from NSAID-treated patients attenuates the capacity of rat leukocytes to synthesize leukotriene B4. Gutheil H, et al. **Inflamm Res** 1996 Jan;45(1):31–4

Injection of autologous blood for bleb leaks in New Zealand white rabbits. Doyle JW, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2356–61

Effect of controlled extracorporeal blood cooling on ultrafiltration-induced blood volume changes during hemodialysis. Schneditz D, et al. **J Am Soc Nephrol** 1997 Jun;8(6):956–64

Current perspectives on hematospermia: a review. Munkel witz R, et al. **J Androl** 1997 Jan–Feb;18(1):6–14 (111 ref.)

The detection of blood contamination in human follicular fluid. Levay PF, et al. **J Assist Reprod Genet** 1997 Apr; 14(4):212–7

Water and bovine serum lubrication compared in simulator PTFE/CoCr wear model. Good VD, et al. **J Biomed Mater Res** 1996 Winter;33(4):275–83

Improved blood compatibility of segmented polyurethane by polymeric additives having phospholipid polar group. II. Dispersion state of the polymeric additive and protein adsorption on the surface. Ishihara K, et al. **J Biomed Mater Res** 1996 Nov;32(3):401–8

Improved blood compatibility of segmented polyurethanes by polymeric additives having phospholipid polar groups. I. Molecular design of polymeric additives and their functions. Ishihara K, et al. **J Biomed Mater Res** 1996 Nov; 32(3):391–9

Biocompatibility of alumina ceramic and polyethylene as materials for pivot bearings of a centrifugal blood pump. Takami Y, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):381–6

Senile seminal vesicle amyloidosis associated with hematospermia: demonstration by endorectal MRI. Botash RJ, et al. **J Comput Assist Tomogr** 1997 Sep–Oct; 21(5):748–9

Expression of human decay accelerating factor may protect pig lung from hyperacute rejection by human blood. Pierson RN 3rd, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):231–9

Donor blood perfusion improves myocardial recovery after heart transplantation. Rao V, et al. **J Heart Lung Transplant** 1997 Jun;16(6):667–73

NMR of laser-polarized 129Xe in blood foam. Tseng CH, et al. **J Magn Reson** 1997 May;126(1):79–86

Black blood dual phase turbo FLASH MR imaging of the heart. Sinha S, et al. **J Magn Reson Imaging** 1996 May–Jun; 6(3):484–94

Serum opens tight junctions and reduces ZO-1 protein in retinal epithelial cells. Chang C, et al. **J Neurochem** 1997 Aug;69(2):859–67

Differentiation of NG108-15 neuroblastoma cells by serum starvation or dimethyl sulfoxide results in marked differences in angiotensin II receptor subtype expression. Seidman KJ, et al. **J Neurochem** 1996 Mar;66(3):1011–8

Influence of CO2 tension on hepatic hemodynamics during portal arterialization. Katagiri Y, et al. **J Surg Res** 1996 Feb 15;61(1):39–43

Effect of fibrinogen and thrombin concentrations on mastectomy seroma prevention. Sanders RP, et al. **J Surg Res** 1996 Feb 15;61(1):65–70

Both blood and crystalloid-based extracellular solutions are superior to intracellular solutions for lung preservation. Binns OA, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1515–21

Direct effects of oxygenated crystalloid or blood cardioplegia on isolated myocyte contractile function. Handy JR Jr, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1064–72

Magnetic resonance imaging in hemospermia. Cho IR, et al. **J Urol** 1997 Jan;157(1):258–62

Severe visual loss after autologous blood injection for mitomycin-C-associated hypotonous maculopathy. Lu DW, et al. **Ophthalmic Surg Lasers** 1997 Mar;28(3):244–5

Human autologous serum for the treatment of full-thickness macular holes. A preliminary study [see comments] Liggett PE, et al. **Ophthalmology** 1995 Jul;102(7):1071–6. Comment in: Ophthalmology 1996 Feb;103(2):200–1.

Warm cardiac surgery with continuous blood cardioplegia using a potassium infusion pump. Fried DW, et al. **Perfusion** 1997 Mar;12(1):21–6

Difference in serum-induced prostacyclin production by cultured aortic and capillary endothelial cells. Umeda F, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jan; 56(1):51–5

Prevalence of hepatitis C antibodies among health care workers at high risk for blood exposure. Martins RM, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug;38(4):309–10

Blood cardioplegia does not increase haemolysis. A comparison between crystalloid and blood cardioplegia in coronary artery bypass grafting. Rinne TT. **Scand J Thorac Cardiovasc Surg** 1996;30(2):65–9

Experimental venous thrombosis induced by homologous serum in the rat. Millet J, et al. **Thromb Res** 1996 Feb 15; 81(4):497–502

Efficiency of fucans in protecting porcine endothelial cells against complement activation and lysis by human serum. Charreau B, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):889–90

Human CD46 but not CD59 in transgenic mice protects against hyperacute rejection evoked by ex vivo perfusion with human serum. Marquet RL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):931–2

Quantification of blood echogenicity: evaluation of a semiquantitative method of grading spontaneous echo contrast. Fatkin D, et al. **Ultrasound Med Biol** 1995; 21(9):1191–8

[After accidental exposure to blood. What should be done?] Vayssettes JC, et al. **Presse Med** 1997 Apr 5;26(11):517–9 (25 ref.) **(Fre)**

[Models for describing ultrasound scattering in blood] Xu S, et al. **Biomed Tech (Berl)** 1997 May;42(5):123–31 (Eng. Abstr.) **(Ger)**

[Hemospermia: role of transrectal echography] Nicolai M, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):129–32 (Eng. Abstr.) **(Ita)**

[Retrospective study of 107 patients with hematospermia] Jinza S, et al. **Hinyokika Kiyo** 1997 Feb;43(2):103–7 (Eng. Abstr.) **(Jpn)**

[Blood cyst of the pulmonary valve in an adult--a case report] Masaki H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):774–7 (Eng. Abstr.) **(Jpn)**

[Increase in beta-adrenoreactivity of coronary arteries exposed to blood serum] Tsirkin VI, et al. **Dokl Akad Nauk** 1996 Dec;351(4):565–6 **(Rus)**

[Micromethod of measuring peroxide chemiluminescence of blood plasma] Kornienko IV, et al. **Klin Lab Diagn** 1997 Apr;(4):41–2 **(Rus)**

[Mutagenic and antimutagenic activities of human whole blood, plasma and albumin] Semenov VV, et al. **Vestn Ross Akad Med Nauk** 1997;(7):33–5 (Eng. Abstr.) **(Rus)**

[Preparation of control human sera with increased level of certain classes of lipoproteins using serum fractions sedimented with sulfated polyanions] Khaĭdukova IL, et al. **Vopr Med Khim** 1996 Apr–Jun;42(2):159–67 (Eng. Abstr.) **(Rus)**

[Pleurodesis with autologous blood: the results of a series of 17 cases with more than a year of follow-up] Blanco Blanco I, et al. **Rev Clin Esp** 1997 Jun;197(6):406–10 (Eng. Abstr.) **(Spa)**

ANALYSIS see **BLOOD CHEMICAL ANALYSIS**

CHEMISTRY see **BLOOD CHEMICAL ANALYSIS**

CYTOLOGY see **BLOOD CELLS**

DRUG EFFECTS

Biochemical studies on the effect of Plotosus lineatus crude venom (in vivo) and its effect on EAC-cells (in vitro). Fahim FA, et al. **Adv Exp Med Biol** 1996;391:343–55

Changes in absorbance at 413 nm in plasma from three rodent species exposed to phosgene. Sciuto AM, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):906–11

Diurnal sensitivity in melatonin-induced hematological changes in the male albino rat. Karimungi MG, et al. **Biol Signals** 1996 Sep–Oct;5(5):283–90

Hydrogen peroxide decomposes the heme compound in forensic specimens and improves the efficiency of PCR. Akane A. **Biotechniques** 1996 Sep;21(3):392–4

Chelerythrine inhibits Na(+)-H+ exchange in platelets from spontaneously hypertensive rats. Gende OA. **Hypertension** 1996 Dec;28(6):1013–7

Hematological aspects of biocompatibility--review article. Banerjee R, et al. **J Biomater Appl** 1997 Jul;12(1):57–76 (46 ref.)

Oxidative stress-related clastogenic factors in plasma from Chernobyl liquidators: protective effects of antioxidant plant phenols, vitamins and oligoelements. Emerit I, et al. **Mutat Res** 1997 Jul 3;377(2):239–46

[Inhibitory effect of isosorbide dinitrate on whole blood aggregation] Yoshimoto H, et al. **J Cardiol** 1997 Apr; 29(4):195–201 (Eng. Abstr.) **(Jpn)**

[Aspects of perfluoro-organic hemo-protection] Shevchenko IuL, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):17–9 (Eng. Abstr.) **(Rus)**

[Changes in the blood morphofunctional characteristics of cyprinid fishes in ammonia poisoning] Hrubinko VV, et al. **Fiziol Zh** 1996;42(1–2):40–6 (Eng. Abstr.) **(Ukr)**

ENZYMOLOGY see **ENZYMES/blood**

IMMUNOLOGY

Effects of serum from pregnant versus non-pregnant women on natural killer cell activity. Fujino Y, et al.

Am J Reprod Immunol 1997 May;37(5):365–7

Transforming growth factor–beta 1 inhibits synthesis of cytokines in endotoxin–stimulated human whole blood. **Karres I**, et al. **Arch Surg** 1996 Dec;131(12):1310–6; discussion 1316–7

Effect of serum from breast– or formula–fed infants on polymorphonuclear leukocyte function. Barriga Ibars C, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jan; 20(1):21–7

Facilitation of apoptosis by autologous serum and related immunosuppression in the splenocyte culture. Kim HM, et al. **Immunopharmacology** 1996 Aug;34(1):39–50

Abundance of Gal beta 1,3GalNAc in O–linked oligosaccharide on hinge region of polymerized IgA1 and heat–aggregated IgA1 from normal human serum. Iwase H, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):92–7

Changes in endotoxin–induced cytokine production by whole blood after in vivo exposure of normal humans to endotoxin. van der Poll T, et al. **J Infect Dis** 1996 Dec; 174(6):1356–60

Sensitization of rhabdo–, lenti–, and spumaviruses to human serum by galactosyl(alpha1–3)galactosylation. Takeuchi Y, et al. **J Virol** 1997 Aug;71(8):6174–8

Prevention of hyperacute rejection by human decay accelerating factor in xenogeneic perfused working hearts. Schmoeckel M, et al. **Transplantation** 1996 Sep 27; 62(6):729–34

Current research on the immunomodulatory effect of allogeneic blood transfusion. Dzik S, et al. **Vox Sang** 1996; 70(4):187–94 (56 ref.)

[Bacterial antigenic structure of Shigella flexneri serotype 1B and its 3B serotype mutant and susceptibility to bacterial action of complement in normal bovine serum] Doroszkiewicz W, et al. **Postepy Hig Med Dosw** 1996; 50(5):519–23 (Eng. Abstr.) **(Pol)**

METABOLISM

Esters of cephalosporins. Part IV. Hydrolysis of 1–acetoxyethyl ester of cefuroxime in vitro and in vivo. Tejchman B, et al. **Acta Pol Pharm** 1995 Nov–Dec; 52(6):477–82

A fitness advantage for Aedes aegypti and the viruses it transmits when females feed only on human blood. Scott TW, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):235–9

The effect of storage on Guthrie cards: implications for deoxyribonucleic acid amplification. Makowski GS, et al. **Ann Clin Lab Sci** 1996 Sep–Oct;26(5):458–69

Modeling of oxygen uptake in perfluorocarbon emulsions. Some comparisons with uptake by blood. Shah N, et al. **ASAIO J** 1996 May–Jun;42(3):181–9

Differential plasma clearance of murine acute–phase serum amyloid A proteins SAA1 and SAA2. Kluve–Beckerman B, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):663–9

KW–2149 (7–N–[2–[gamma–L–glutamylamino]ethyldithioethyl]mitomycin C). A new mitomycin C analogue activated by serum. Masters JR, et al. **Biochem Pharmacol** 1997 Feb 7;53(3):279–85

Clinical comparison of the BACTEC 9000 Standard Anaerobic/F and Lytic/F blood culture media. Hollick GE, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):191–6

Plasma metabolites, volume and electrolytes following 30–s high–intensity exercise in boys and men. Hebestreit H, et al. **Eur J Appl Physiol** 1996;72(5–6):563–9

Penetration of sparfloxacin and ciprofloxacin into alveolar macrophages, epithelial lining fluid, and polymorphonuclear leucocytes. Schüler P, et al. **Eur Respir J** 1997 May;10(5):1130–6

A method to test blood flow limitation of peritoneal–blood solute transport. Kim M, et al. **J Am Soc Nephrol** 1997 Mar;8(3):471–4

Effects of serum from HIV–infected subjects on the functional activity of polymorphonuclear neutrophils. Pieri EC, et al. **J Clin Lab Immunol** 1995;47(1):25–32

Diagnosis of brucellosis by using blood cultures. Ruiz J, et al. **J Clin Microbiol** 1997 Sep;35(9):2417–8

Esterification of oxysterols in human serum: effects on distribution and cellular uptake. Lin CY, et al. **J Lipid Res** 1996 Jan;37(1):168–78

Comparative studies on the substrate specificity of lecithin:cholesterol acyltransferase towards the molecular species of phosphatidylcholine in the plasma of 14 vertebrates. Subbaiah PV, et al. **J Lipid Res** 1996 Jan; 37(1):113–22

Determination of stromelysin–1, 72 and 92 kDa type IV collagenase, tissue inhibitor of metalloproteinase–1 (TIMP–1), and TIMP–2 in synovial fluid and serum from patients with rheumatoid arthritis. Ishiguro N, et al. **J Rheumatol** 1996 Sep;23(9):1599–604

Plasma leptin is partly cleared by the kidney and is elevated in hemodialysis patients. Sharma K, et al. **Kidney Int** 1997 Jun;51(6):1980–5

Effect of high–dose intravenous immunoglobulin on serum chemistry, hematology, and lymphocyte subpopulations: assessments based on controlled treatment trials in patients with neurological diseases. Koffman BM, et al. **Muscle Nerve** 1997 Sep;20(9):1102–7

Differential biotransformation of dynorphin A (1–17) and dynorphin A (1–13) peptides in human blood, ex vivo. Chou JZ, et al. **Peptides** 1996;17(6):983–90

Modulatory effects of glucocorticoids and catecholamines on human interleukin–12 and interleukin–10 production: clinical implications. Elenkov IJ, et al. **Proc Assoc Am Physicians** 1996 Sep;108(5):374–81

A novel enzyme system for the reduction of 3–oxo bile acids in human red blood cells. Goto J, et al. **Steroids** 1996 Jul; 61(7):416–20

Using structural information to create physiologically based pharmacokinetic models for all polychlorinated biphenyls. Parham FM, et al. **Toxicol Appl Pharmacol** 1997 Jun; 144(2):340–7 (27 ref.)

[The biochemical changes in the blood of variously adapted persons under exposure to different physical loads who develop tolerance] Milašius K. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov; 82(10–11):98–107 (Eng. Abstr.) **(Rus)**

[The effect of scalp acupuncture on the blood biochemical indices of healthy volunteers] Belitskaia RA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):27–9 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

BacT/Alert and isolator blood culture systems [letter; comment] Wasilauskas BL, et al. **Am J Clin Pathol** 1997 Mar;107(3):376–8. Comment on: Am J Clin Pathol 1996 Jun;105(6):774–81.

Speed of detection of Burkholderia pseudomallei in blood cultures and its correlation with the clinical outcome. Tiangpitayakorn C, et al. **Am J Trop Med Hyg** 1997 Jul; 57(1):96–9

Reduction in blood culture contamination rate by feedback to phlebotomists. Gibb AP, et al. **Arch Pathol Lab Med** 1997 May;121(5):503–7

Bacterial translocation during portal clamping for liver resection. A clinical study. Ferri M, et al. **Arch Surg** 1997 Feb;132(2):162–5

Influence of hemodilution on cefuroxime levels and bacterial contamination of intra– and postoperative processed wound blood during hip replacement. Wollinsky KH, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:191–5

Behaviour of Acinetobacter strains with normal human serum. Cervi BM, et al. **Cent Eur J Public Health** 1996 Sep;4(3):197–200

Analysis of 281,797 consecutive blood cultures performed over an eight–year period: trends in microorganisms isolated and the value of anaerobic culture of blood. Cockerill FR 3rd, et al. **Clin Infect Dis** 1997 Mar; 24(3):403–18

Current blood culture methods and systems: clinical concepts, technology, and interpretation of results. Weinstein MP. **Clin Infect Dis** 1996 Jul;23(1):40–6 (71 ref.)

Utilization and diagnostic yield of blood cultures in a surgical intensive care unit. Darby JM, et al. **Crit Care Med** 1997 Jun;25(6):989–94

Clinical comparison of the BACTEC 9000 Standard Anaerobic/F and Lytic/F blood culture media. Hollick GE, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):191–6

Direct application of Etest to gram–positive cocci from blood cultures: quick and reliable minimum inhibitory concentration data. Hong T, et al. **Diagn Microbiol Infect Dis** 1996 May;25(1):21–5

Culture of dialysate in suspected CAPD associated peritonitis using the BacT/Alert system. Khare S, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):101–6

Prolonged incubation of blood and bone marrow cultures in 12B bottles processed on the BACTEC 460 TB system does not increase microbial recovery. Wilson ML, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):113–5

Blood versus lung aspirate culture in pneumonia [letter] George SA, et al. **Indian Pediatr** 1996 Oct;33(10):871–2

Diagnosis of intravascular device related sepsis by a continuous monitoring blood culture system [letter] Bernard D, et al. **Intensive Care Med** 1996 Aug; 22(8):829–30

Isolation of Bartonella (Rochalimaea) henselae: effects of methods of blood collection and handling. Brenner SA, et al. **J Clin Microbiol** 1997 Mar;35(3):544–7

Evaluation of an extended blood culture protocol to isolate fastidious organisms from patients with AIDS. Dougherty MJ, et al. **J Clin Microbiol** 1996 Oct;34(10):2444–7

Assessment of routine use of an anaerobic bottle in a three–component, high–volume blood culture system. Hellinger WC, et al. **J Clin Microbiol** 1996 Oct; 34(10):2544–7

Performance of fungal blood cultures by using the Isolator collection system: is it cost–effective? Morrell RM Jr, et al. **J Clin Microbiol** 1996 Dec;34(12):3040–3

Isolator component responsible for inhibition of Mycobacterium avium–M. intracellulare in BACTEC 12B medium. Wasilauskas BL, et al. **J Clin Microbiol** 1997 Mar; 35(3):588–90

Doing it right the first time: quality improvement and the contaminant blood culture. Weinbaum FI, et al. **J Clin Microbiol** 1997 Mar;35(3):563–5

Sensitive and universal method for microbial DNA extraction from blood products. Golbang N, et al. **J Clin Pathol** 1996 Oct;49(10):861–3

The significance of microbial cultures of the hematopoietic support for patients receiving high–dose chemotherapy. Cohen A, et al. **J Hematother** 1996 Jun;5(3):289–94

Images in clinical medicine. Meningococcemia [see comments] Gomez R, et al. **N Engl J Med** 1997 Mar 6; 336(10):707. Comment in: N Engl J Med 1997 Jul 17;337(3):204.

Predictors for a positive blood culture in African children with pneumonia. Banya WA, et al. **Pediatr Infect Dis J** 1996 Apr;15(4):292–7

Yield of positive blood cultures in pediatric oncology patients by a new method of blood culture collection. Kaditis AG, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):615–20

Community–acquired bacteremia in Zimbabwe and the global cost of contaminated blood cultures [letter; comment] McDonald LC, et al. **Pediatr Infect Dis J** 1997 May; 16(5):537–8. Comment on: Pediatr Infect Dis J 1996 Dec;15(12):1092–7.

Continuous–monitoring blood culture screening system improves the detection of bacteremia in neutropenic patients. Kinnunen U, et al. **Scand J Infect Dis** 1996; 28(3):287–92

Efficacy of blood cultures in the critically ill surgical patient. Henke PK, et al. **Surgery** 1996 Oct;120(4):752–8; discussion 758–9

Factors affecting growth of Yersinia enterocolitica in cellular blood products. Högman CF, et al. **Transfus Med Rev** 1996 Oct;10(4):259–75 (81 ref.)

Incidence of positive bacterial cultures after donor call–back [letter] Goldman M, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):1035

Growth of bacteria in platelet concentrates obtained from whole blood stored for 16 hours at 22 degrees C before component preparation. Sanz C, et al. **Transfusion** 1997 Mar;37(3):251–4

[Comparison of various methods of hemoculture tests] Beneš J, et al. **Epidemiol Mikrobiol Imunol** 1996 Sep;45(3):101–7 (Eng. Abstr.) **(Cze)**

[Bacteriological tests] Okada J. **Rinsho Byori** 1996 Nov;Suppl 103:227–34 **(Jpn)**

[The level of alcohol and titre of A and B group substances of the ABO system in blood samples infected by some strains of Escherichia coli] Kurzejamska–Parafiniuk M. **Ann Acad Med Stetin** 1996;42:85–104 (Eng. Abstr.) **(Pol)**

[Gram–positive, catalase negative cocci isolated from clinical material—identification and drug sensitivity of strains] Rokosz A, et al. **Przegl Epidemiol** 1996;50(3):265–72 (Eng. Abstr.) **(Pol)**

[Modified method of inoculation of hemocultures from patients with suppurative–septic diseases and typhoid–paratyphoid fever] Iskhakova KhI, et al. **Klin Lab Diagn** 1996 Sep–Oct;(5):41–3 (Eng. Abstr.) **(Rus)**

[The interrelationship of the results of microbiological blood and lymph studies with the severity of the course of acute pancreatitis] Pugaev AV, et al. **Lik Sprava** 1996 Jul–Sep; (7–9):113–5 (Eng. Abstr.) **(Rus)**

[The characteristics of the hydrophobic properties of bacteria when interacting with blood serum] Brudastov IuA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):73–7 (Eng. Abstr.) **(Rus)**

[Utility of the Stamp method (letter)] Dorronsoro I, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):276 **(Spa)**

[Yield of blood cultures in relation to the cultured blood volume in Bactec 6A bottles] Mensa J, et al. **Med Clin (Barc)** 1997 Apr 12;108(14):521–3 (Eng. Abstr.) **(Spa)**

[Blood cultures in the polymerase chain reaction age (editorial)] Prats G, et al. **Med Clin (Barc)** 1997 Apr 12; 108(14):534–6 **(Spa)**

PARASITOLOGY

Detection of Trypanosoma brucei spp. in human blood by a nonradioactive branched DNA–based technique. Harris E, et al. **J Clin Microbiol** 1996 Oct;34(10):2401–7

Sensitive detection of Plasmodium vivax in blood by a cell–ELISA using a monoclonal antibody. Bracho C, et al. **J Immunoassay** 1996 May;17(2):155–74

Lack of correlation between haptoglobin concentration and trypanolytic activity of normal human serum. Raper J, et al. **Mol Biochem Parasitol** 1996 Feb–Mar;76(1–2):337–8

A retrotransposon of the non–long terminal repeat class from the human blood fluke Schistosoma mansoni. Similarities to the chicken–repeat–1–like elements of vertebrates. Drew AC, et al. **Mol Biol Evol** 1997 Jun;14(6):602–10

Images in clinical medicine. Relapsing fever. Newton JA, et al. **N Engl J Med** 1996 Oct 17;335(16):1197

[Detection of Leishmania in bone marrow using an automatic hemoculture system (letter)] Fernández I, et al. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):394 **(Spa)**

PHYSIOLOGY

Prostaglandin production in cultured cerebral microvascular smooth muscle is serum dependent. Rich G, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1379–87

Resistance of morpholino phosphorodiamidate oligomers to enzymatic degradation. Hudziak RM, et al. **Antisense Nucleic Acid Drug Dev** 1996 Winter;6(4):267–72

Effects of exercise mode on hematologic adaptations to endurance training in adult females. Branch JD 3rd, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):788–94

Mechanism of aggregates generated by heating human serum. Muratsugu M. **Biol Pharm Bull** 1996 Jan;19(1):132–5

Effects of selenium and serum on selenoprotein W in cultured L8 muscle cells. Yeh JY, et al. **Biometals** 1997 Jan; 10(1):11–22

Proton NMR relaxation times of human blood samples at

1.5 T and implications for functional MRI. Barth M, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):783–91

Serum factor from diabetic patients with or without retinopathy stimulates superoxide anion production by normal polymorphonuclear leukocytes. Abu El-Asrar AM, et al. **Doc Ophthalmol** 1995;91(1):1–8

Serum stimulation of parathyroid hormone-related peptide gene expression in ROS 17/2.8 osteosarcoma cells through transcriptional and posttranscriptional mechanisms. Falzon M. **Endocrinology** 1996 Sep;137(9):3681–8

Effect of serum from partially hepatectomized cirrhotic and noncirrhotic rats on liver regeneration with primary hepatocyte cultures. Chen MF, et al. **Eur Surg Res** 1996; 28(6):413–8

Retinal pigment epithelial cell proliferation: potentiation by monocytes and serum. Osusky R, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S76–82

Development of amphotropic murine retrovirus vectors resistant to inactivation by human serum. Pensiero MN, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1095–101

Addition of kallikrein and/or human serum to a discontinuous Percoll gradient [letter; comment] Depoortere B, et al. **Hum Reprod** 1996 Feb;11(2):457–8. Comment on: Hum Reprod 1995 Dec;10(12):3183–5.

The influence of sera, follicular fluids and seminal plasma on human sperm–zona pellucida binding. Huyser C, et al. **Hum Reprod** 1997 Apr;12(4):792–9

Blood transfusion services: blood safety in India [editorial] Talib VH, et al. **Indian J Pathol Microbiol** 1996 Oct; 39(4):255–6

Increase of glycocalyx and altered lectin agglutination profiles of Pasteurella haemolytica A1 after incubation in bovine subcutaneous tissue chambers in vivo or in ruminant serum in vitro. Brogden K, et al. **Infect Immun** 1997 Mar; 65(3):957–63

Homologous serum increases fibronectin expression and cell adhesion in airway smooth muscle cells. Shiels IA, et al. **Inflammation** 1996 Aug;20(4):373–87

Serum inhibits tight junction formation in cultured pigment epithelial cells. Chang CW, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1082–93

Vitronectin is responsible for serum-stimulated uptake of rod outer segments by cultured retinal pigment epithelial cells. Miceli MV, et al. **Invest Ophthalmol Vis Sci** 1997 Jul; 38(8):1588–97

Critical role of the extracorporeal blood temperature in the hemodynamic response during hemofiltration. van Kuijk WH, et al. **J Am Soc Nephrol** 1997 Jun;8(6):949–55

Pulsatile flow of non-Newtonian fluids through arterial stenoses. Tu C, et al. **J Biomech** 1996 Jul;29(7):899–908

Thrombin stimulates activation of the cerebral 5-lipoxygenase pathway during blood–brain cell contact. Winking M, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):737–45

Susceptibility of Candida albicans pretreated with ketoconazole and 5-fluorocytosine to fungicidal activity of leukocytes and serum. Chiu ML, et al. **J Chemother** 1995 Nov;7 Suppl 4:21–2

Circulating factors and insulin resistance. II. The action of the novel myo-inositol cyclic 1,2-inositol phosphate phosphoglycan insulin antagonist from human plasma in regulating pyruvate dehydrogenase phosphatase. Galasko GT, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1051–7

Activity, blood temperature and brain temperature of free-ranging springbok. Mitchell D, et al. **J Comp Physiol [B]** 1997 Jul;167(5):335–43

Exposure of blood to biomaterial surfaces liberates substances that activate polymorphonuclear granulocytes. Karlsson C, et al. **J Lab Clin Med** 1996 Nov;128(5):496–505

New applications of electrical impedance of human blood. Zhao TX. **J Med Eng Technol** 1996 May–Jun;20(3):115–20

Effects of salivary or serum pellicles on the Candida albicans growth and biofilm formation on soft lining materials in vitro. Nikawa H, et al. **J Oral Rehabil** 1997 Aug; 24(8):594–604

Melatonin-sensitive, serum-stimulated signalling in ovine pars tuberalis. McNulty S, et al. **J Pineal Res** 1997 May; 22(4):221–31

Quantitative correlations among fibrinogen concentration, sedimentation rate and electrical impedance of blood. Zhao TX, et al. **Med Biol Eng Comput** 1997 May;35(3):181–5

Effects of n-3 fatty acids and fenofibrate on lipid and hemorrheological parameters in familial dysbetalipoproteinemia and familial hypertriglyceridemia. Otto C, et al. **Metabolism** 1996 Oct;45(10):1305–11

Selective enhancement by serum factors of cyclic AMP accumulation in rat microglial cultures. Patrizio M, et al. **Neurochem Int** 1996 Jul;29(1):89–96

Experimental intracerebral hemorrhage: description of a double injection model in rats. Deinsberger W, et al. **Neurol Res** 1996 Oct;18(5):475–7

H7, an inhibitor of protein kinase C, prevents serum-induced phosphorylation of Raf and MAP kinase in neuroblastoma cells. Cabedo H, et al. **Neurosci Lett** 1996 Aug 16; 214(1):13–6

Effect of metabolic alkalosis and metabolic acidosis on urinary kallikrein excretion of anaesthetized rats: evidence for a role of blood pH as regulator of renal kallikrein secretion. Marin-Grez M, et al. **Pflugers Arch** 1996 Jun; 432(2):202–6

Changes in optical properties of human whole blood in vitro due to slow heating. Nilsson AM, et al. **Photochem Photobiol** 1997 Feb;65(2):366–73

Inhibition of human serum mediated lysis of porcine endothelial cells using a novel peptide which blocks C1Q binding to xenoantibody. Fryer JP, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):883

[Influence of the nature of the ingested blood on the gonotrophic parameters of Phlebotomus perniciosus under laboratory conditions] Benito-De Martin MI, et al. **Parasite** 1994 Dec;1(4):409–11 (Eng. Abstr.) **(Fre)**

[The comparative effectiveness of different infusion and blood warming methods] Schmidt JH, et al. **Anaesthesist** 1996 Nov;45(11):1067–74 (Eng. Abstr.) **(Ger)**

[Adrenomodulating effects of human blood, cerebrospinal fluid, urine, saliva, and amniotic fluid] Tsirkin VI, et al. **Dokl Akad Nauk** 1997 Jan;352(1):124–6 **(Rus)**

[The beta-adrenomimetic effect of human and animal blood serum] Tsirkin VI. **Fiziol Cheloveka** 1997 May-Jun; 23(3):88–96 **(Rus)**

[The effect of the blood flow rate on blood heat emission in the vascular bed of the skin] Luchakov IuI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):78–82 (Eng. Abstr.) **(Rus)**

[The basic principles of blood purification during hemodialysis] Denisov AIu. **Ter Arkh** 1996;68(6):69–74 **(Rus)**

[The creation of artificial blood and the lessons of physiology for practical medicine] Ivanov KP. **Usp Fiziol Nauk** 1996 Oct-Dec;27(4):133–40 (26 ref.) (Eng. Abstr.) **(Rus)**

[Physiological and biological problems of the microcirculation and their resolution in the evolution of the blood and blood circulation] Ivanov KP. **Zh Evol Biokhim Fiziol** 1996 May-Jun;32(3):350–70 (64 ref.) **(Rus)**

RADIATION EFFECTS

Irradiated blood components [letter; comment] Dickson LG. **Am J Clin Pathol** 1997 Feb;107(2):252; discussion 253–4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6–11.

Irradiated blood components [letter; comment] Mintz PD, et al. **Am J Clin Pathol** 1997 Feb;107(2):252–3; discussion 253–4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6–11.

Irradiated blood components [letter; comment] Oberman HA. **Am J Clin Pathol** 1997 Feb;107(2):251; discussion 253–4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6–11.

Irradiated blood components [letter; comment] Popovsky MA. **Am J Clin Pathol** 1997 Feb;107(2):253; discussion 253–4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6–11.

Prediction of myelotoxicity using radiation doses to marrow from body, blood and marrow sources. Lim SM, et al. **J Nucl Med** 1997 Sep;38(9):1374–8

Post-irradiation plasma potassium and intra-uterine transfusion [letter] Win N, et al. **Vox Sang** 1997;73(1):56–7

[Experimental principles and general practice of intraoperative autotransfusion with blood irradiation in tumor operation] Hansen E, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:184–90 (Eng. Abstr.) **(Ger)**

[Low-intensity laser irradiation in the treatment and prevention of complications of catheterization of the subclavian vein] Shishkin SA. **Anesteziol Reanimatol** 1997 May-Jun;(3):99–100 **(Rus)**

[Antioxidant properties of UV-irradiated blood plasma as determined by the photochemiluminescence method] Udilova N, et al. **Biofizika** 1997 Jan-Feb;42(1):187–90 (Eng. Abstr.) **(Rus)**

[Biological and clinical effects of violet and blue light] Karandashov VI, et al. **Biull Eksp Biol Med** 1997 Apr; 123(4):452–4 **(Rus)**

[Effect of extracorporeal helium-neon laser irradiation of the blood on morpho-functional state of erythrocytes] Slinchenko OI, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):338–40 **(Rus)**

[Reduced blood trauma in vitro in the electromagnetic field] Tashaev ShS, et al. **Biull Eksp Biol Med** 1997 Jan; 123(1):33–5 **(Rus)**

[Ultraviolet autoblood irradiation in multimodal treatment of patients with diffuse peritonitis] Ashurov BM, et al. **Khirurgiia (Mosk)** 1997;(4):44–7 (Eng. Abstr.) **(Rus)**

[Thyroid function in patients with posthemorrhagic anemia against a background of ultraviolet irradiation of the blood] Desiaterik VI, et al. **Klin Khir** 1995;(1):44 **(Rus)**

[A device for the continuous-flow extracorporeal irradiation of the blood] Kompaniets NG. **Klin Khir** 1996;(7):45–6 **(Rus)**

[Cytological study of wounds using detoxication and nondrug immunomodulation in patients with severe burns] Slesarenko SV, et al. **Klin Khir** 1996;(5):23–7 **(Rus)**

[Use of the hematological system Technicon H-1 for analysis of the effect of laser irradiation] Siatkovskiĭ VA, et al. **Klin Lab Diagn** 1993 May-Jun;(3):20–3 (Eng. Abstr.) **(Rus)**

[Low-energy laser irradiation of blood in combined treatment of patients with duodenal ulcer] Naumova EL, et al. **Klin Med (Mosk)** 1996;74(3):63–4 **(Rus)**

[The clinico-hematological characteristics of the participants in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Station with stable deviations in blood analyses] Radchuk ZV. **Lik Sprava** 1997 Jan-Feb; (1):14–7 (Eng. Abstr.) **(Rus)**

[A simplified model of the apparatus for flow-type extracorporeal irradiation of blood and results of its use] Kompaniets NG. **Med Tekh** 1996 Jul-Aug;(4):43–5 (Eng. Abstr.) **(Rus)**

[Changes in the lipid content of the blood and erythrocyte membrane in patients with IHD under the influence of quantum therapy] Vasil'ev AP, et al. **Ter Arkh** 1996; 68(12):47–50 (Eng. Abstr.) **(Rus)**

[The use of intravascular laser irradiation of the blood in surgery] Ismailov DA, et al. **Vestn Khir Im I I Grek** 1995; 154(4–6):128–31 (59 ref.) **(Rus)**

[The regional hemodynamics in patients with chronic arterial insufficiency of the lower extremities after the transfusion of UV-irradiated autologous blood] Karandashov VI, et al. **Vestn Khir Im I I Grek** 1996;155(2):76–8 (Eng. Abstr.) **(Rus)**

[Evaluation of the effectiveness of endovascular laser irradiation of blood in multimodal treatment of retinal vein thrombosis] Zakharova IA, et al. **Vestn Oftalmol** 1996 Sep-Oct;112(5):17–9 (Eng. Abstr.) **(Rus)**

[Intravenous laser irradiation of the blood at the health-resort stage of treatment for bronchial asthma patients] Iusupalieva MM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep-Oct;(5):9–12 (Eng. Abstr.) **(Rus)**

[The prediction of individual radiosensitivity by the indices of blood chemiluminescence in intact animals] Pavlenko IO, et al. **Fiziol Zh** 1996;42(1–2):36–9 (Eng. Abstr.) **(Ukr)**

[Use of low-energy laser irradiation in patients with colorectal cancer after surgery] Drizhak VI, et al. **Klin Khir** 1997;(1):33–5 (Eng. Abstr.) **(Ukr)**

[A method for quantum hemotherapy during the performance of extracorporeal detoxication operations] Il'ko AA. **Klin Khir** 1995;(1):41–2 **(Ukr)**

[Use of quantum hemotherapy in complex treatment of aged patients with suppurative inflammatory diseases] Veligotskiĭ MM, et al. **Klin Khir** 1997;(1):9–11 (Eng. Abstr.) **(Ukr)**

ULTRASONOGRAPHY

Inhibition of red cell aggregation prevents spontaneous echocardiographic contrast formation in human blood. Fatkin D, et al. **Circulation** 1997 Aug 5;96(3):889–96

Origin of the Doppler ultrasound spectrum from blood. Bascom PA, et al. **IEEE Trans Biomed Eng** 1996 Jun; 43(6):562–71

Direct effects of DC cardioversion on blood echogenicity: an in vitro study. Fatkin D, et al. **Ultrasound Med Biol** 1997;23(1):135–42

Particle and voxel approaches for simulating ultrasound backscattering from tissue. Lim B, et al. **Ultrasound Med Biol** 1996;22(9):1237–47

Contrast-agent gas bodies enhance hemolysis induced by lithotripter shock waves and high-intensity focused ultrasound in whole blood. Miller DL, et al. **Ultrasound Med Biol** 1996;22(8):1089–95

VIROLOGY

Virus validation studies of immunoglobulin preparations. Biesert L. **Clin Exp Rheumatol** 1996 May-Jun;14 Suppl 15:S47–52

Surveillance cultures of blood, urine, and throat specimens are not valuable for predicting cytomegalovirus disease in liver transplant recipients. Boston Center for Liver Transplantation Cytomegalovirus Immune Globulin Study Group [see comments] Falagas ME, et al. **Clin Infect Dis** 1997 May;24(5):824–9. Comment in: Clin Infect Dis 1997 May;24(5):841–2.

Viral safety of blood derivatives: an overview. Horaud F. **Clin Ther** 1996;18 Suppl B:37–42 (14 ref.)

The effectiveness of donor selection for reducing the risk of HCV, HBV and HIV in new blood donors [letter] Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):611

A study of two procedures of HIV-1 isolation from whole blood cultures. Shen L, et al. **Microbiol Immunol** 1996; 40(3):195–200

Plea to drop charges in French HIV scandal [news] **Nature** 1997 Mar 20;386(6622):210

Canada's HIV blood inquiry turns poisonous [news] [see comments] Spurgeon D. **Nature** 1996 Dec 19–26; 384(6610):602. Comment in: Nature 1997 Feb 13;385(6617):574.

Blood scandal and E. coli raise questions in Japan [news] Swinbanks D. **Nature** 1997 Jan 2;385(6611):9

B19 parvovirus withstands "super heating" in antihemophilic concentrates [letter] Morfini M, et al. **Thromb Haemost** 1996 Nov;76(5):821

Value of virus filtration as a method for improving the safety of plasma products [letter; comment] Burnouf T. **Vox Sang** 1996;70(4):235–6. Comment on: Vox Sang 1995;69(1):82–3.

Incidence of hepatitis C virus RNA in anti-HCV-negative plasma pools and blood products. Saldanha J, et al. **Vox Sang** 1996;70(4):232–4

[Cost-effective approach to the screening of HIV, HBV, HCV, HTLV in blood donors in France] Sailly JC, et al. **Rev Epidemiol Sante Publique** 1997 Apr;45(2):131–41 (17 ref.) (Eng. Abstr.) **(Fre)**

[Risk of contamination with blood during

obstetric-gynecologic surgery] Olivares-Lopez F, et al. **Ginecol Obstet Mex** 1996 May;64:223-6 (Eng. Abstr.) **(Spa)**

BLOOD-AIR BARRIER

Glucose transport and equilibrium across alveolar-airway barrier of rat. Saumon G, et al. **Am J Physiol** 1996 Feb; 270(2 Pt 1):L183-90

Co-cultivation of rat pneumocytes and bovine endothelial cells on a liquid-air interface. Gueven N, et al. **Eur Respir J** 1996 May;9(5):968-75

The effect of iontophoresis on skin barrier integrity: non-invasive evaluation by impedance spectroscopy and transepidermal water loss. Kalia YN, et al. **Pharm Res** 1996 Jun;13(6):957-60

DRUG EFFECTS

Delayed administration of inhaled nitric oxide preserves alveolar-capillary membrane integrity in porcine gram-negative sepsis. Bloomfield GL, et al. **Arch Surg** 1997 Jan;132(1):65-75

Effects of 'crack' cocaine on pulmonary alveolar permeability. Tashkin DP, et al. **Chest** 1997 Aug; 112(2):327-35

Improvement of alveolar-capillary membrane diffusing capacity with enalapril in chronic heart failure and counteracting effect of aspirin. Guazzi M, et al. **Circulation** 1997 Apr 1;95(7):1930-6

Chronic interleukin-2 treatment in awake sheep causes minimal or no injury to the lung microvascular barrier. Jerome EH, et al. **J Appl Physiol** 1996 Oct;81(4):1730-8

PHYSIOLOGY

Thinning of the capillary endothelium with physical activity shortens the diffusion distance of the pulmonary air-blood barrier. Miyachi M, et al. **Acta Physiol Scand** 1996 Aug; 157(4):513-4

Sidestream smoke inhalation decreases respiratory clearance of 99mTc-DTPA acutely. Yates DH, et al. **Aust N Z J Med** 1996 Aug;26(4):513-8

Additive nature of distension and surfactant perturbation on alveolocapillary permeability. John J, et al. **Eur Respir J** 1997 Jan;10(1):192-9

Endothelial barrier dysfunction and oxidative stress: roles for nitric oxide? McQuaid KE, et al. **Exp Physiol** 1997 Mar; 82(2):369-76 (30 ref.)

Response to "the surface monolayer theory does not explain surfactant function in vivo" [letter; comment] Gaver DP 3rd. **Pediatr Pulmonol** 1995 Nov;20(5):326-8; discussion 330-3. Comment on: Pediatr Pulmonol 1995 Mar;19(3);198-202.

Surface tension—area relations [letter; comment] Schurch S. **Pediatr Pulmonol** 1995 Nov;20(5):324-6; discussion 330-3 . Comment on: Pediatr Pulmonol 1995 Mar;19(3):198-202.

[Experimental changes in the alveolo-capillary barrier induced by artificial ventilation] Dreyfuss D, et al. **Schweiz Med Wochenschr** 1997 Jun 14;127(24):1023-9 (30 ref.) (Eng. Abstr.) **(Fre)**

[Adhesion molecules and their role in pathogenesis of ARDS] Skiba-Choińska I, et al. **Przegl Lek** 1996;53(8):627-30 (34 ref.) (Eng. Abstr.) **(Pol)**

[A comparative study of pulmonary elasticity and diffusion through the alveolocapillary membrane in major collagenoses with lung involvement] Bistriceanu G, et al. **Pneumoftiziologia** 1997 Jan-Mar;46(1):15-20 (Eng. Abstr.) **(Rum)**

BLOOD-AQUEOUS BARRIER

Relation between postoperative blood-aqueous barrier damage and LOCS III cataract gradings following routine phacoemulsification surgery. Ursell PG, et al. **Br J Ophthalmol** 1997 Jul;81(7):544-7

Blood-ocular barrier damage: use of contrast-enhanced MRI. Manfré L, et al. **Eur Radiol** 1997;7(1):110-4

Postoperative inflammatory response to phacoemulsification and extracapsular cataract surgery: aqueous flare and cells. Pande MV, et al. **J Cataract Refract Surg** 1996;22 Suppl 1:770-4

DRUG EFFECTS

Effects on IOP restoration and blood-aqueous barrier after long-term treatment with latanoprost in open angle glaucoma and ocular hypertension. Lindén C, et al. **Br J Ophthalmol** 1997 May;81(5):370-2

Effect of commercial dilating agents on laser flare-cell measurements. Chin PK, et al. **Can J Ophthalmol** 1996 Dec; 31(7):362-5

Morphological changes in rabbit ciliary epithelium and blood-aqueous barriers after intravitreal 10(-5) M endothelin-1. Chen HB, et al. **Exp Eye Res** 1996 Jun; 62(6):605-12

Beta-blockers and ocular blood flow: a perspective [editorial] Harris A, et al. **J Glaucoma** 1997 Jun;6(3):143-5

Tetrandrine inhibits breakdown of blood-aqueous barrier induced by endotoxin and interleukin-1 alpha in rats. Xiao JG, et al. **J Ocul Pharmacol Ther** 1996 Fall;12(3):323-9

The effects of ETB receptor-selective agonist on IOP and blood-aqueous barrier in rabbit eyes: role of cyclooxygenase products. Haque MS, et al. **Jpn J Ophthalmol** 1995;39(4):360-7

The effects of prostaglandins on the blood-ocular barrier. Kosaka T, et al. **Jpn J Ophthalmol** 1995;39(4):368-76

PHYSIOLOGY

Effects of subconjunctival methylprednisolone on the blood aqueous barrier following cataract surgery. Nicolás T, et al. **Int Ophthalmol** 1995-96;19(4):235-8

Effect of 3.0 mm tunnel and 6.0 mm corneoscleral incisions on the blood-aqueous barrier. Diestelhorst M, et al. **J Cataract Refract Surg** 1996 Dec;22(10):1465-70

The blood-aqueous barrier in anisometropia and high myopia. Shih YF, et al. **Ophthalmic Res** 1996;28(2):137-40

Do standard procedures in squint surgery influence the blood-aqueous barrier? Neugebauer A, et al. **Ophthalmic Surg Lasers** 1997 Jul;28(7):570-3

Effects of exogenous prostaglandins on aqueous humor dynamics and blood-aqueous barrier function. Toris CB, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S69-75 (49 ref.)

[A clinical comparative study of tyndallometry using 2 laser flare meters] Nguyen NX, et al. **Klin Monatsbl Augenheilkd** 1996 Aug-Sep;209(2-3):89-93 (Eng. Abstr.) **(Ger)**

[Disorder of the blood-aqueous barrier after eye muscle operation in children] Kaszli FA, et al. **Ophthalmologe** 1996 Aug;93(4):325-7 (Eng. Abstr.) **(Ger)**

[Disruption of the blood-aqueous barrier after implantation of sclera-fixed posterior chamber lenses. Early postoperative phase and long-term outcome] Willwerth AE, et al. **Ophthalmologe** 1997 Jan;94(1):24-9 (Eng. Abstr.) **(Ger)**

RADIATION EFFECTS

Modulation of the blood-aqueous barrier by light exposure in patients with uveitis. Cuzzani O, et al. **Can J Ophthalmol** 1997 Jun;32(4):244-9

[Tyndallometry for follow-up of iodine-125 brachytherapy of uveal malignant melanomas. Report of 2 patients] Nguyen NX, et al. **Klin Monatsbl Augenheilkd** 1996 Jul; 209(1):25-30 (Eng. Abstr.) **(Ger)**

BLOOD, ARTIFICIAL see **BLOOD SUBSTITUTES**

BLOOD BACTERICIDAL ACTIVITY

Serum bactericidal activities and comparative pharmacokinetics of meropenem and imipenem-cilastatin. Dreetz M, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):105-9

Macrophages expressing a fusion protein derived from bactericidal/permeability-increasing protein and IgG are resistant to endotoxin. Dahlberg PS, et al. **Arch Surg** 1996 Nov;131(11):1173-7; discussion 1177-8

Serum concentrations and ex vivo inhibitory/bactericidal activity of clindamycin after administration of two oral dosages. Dan M, et al. **Chemotherapy** 1997 Jul-Aug; 43(4):227-31

Effects of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor on the bactericidal functions of neutrophils. Pitrak DL. **Curr Opin Hematol** 1997 May;4(3):183-90 (76 ref.)

The sensitivity of Hafnia alvei strains to the bactericidal effect of serum. Jankowski S, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):59-64

Serum bactericidal activity in a secondary school population following an outbreak of meningococcal disease: effects of carriage and secretor status. Zorgani AA, et al. **FEMS Immunol Med Microbiol** 1996 Jun;14(2-3):73-81

Impaired neutrophil microbicidal activity in rat cholestasis. Tjandra K, et al. **Gastroenterology** 1997 May;112(5):1692-8

C5b-7 and C5b-8 precursors of the membrane attack complex (C5b-9) are effective killers of E. coli J5 during serum incubation. Bloch EF, et al. **Immunol Invest** 1997 Jun;26(4):409-19

Selection of Opa+ Neisseria gonorrhoeae by limited availability of normal human serum. Bos MP, et al. **Infect Immun** 1997 Feb;65(2):645-50

Regulation of gonococcal sialyltransferase, lipooligosaccharide, and serum resistance by glucose, pyruvate, and lactate. McGee DJ, et al. **Infect Immun** 1996 Nov;64(11):4630-7

Isolation, antimicrobial activities, and primary structures of hamster neutrophil defensins. Mak P, et al. **Infect Immun** 1996 Nov;64(11):4444-9

Porcine polymorphonuclear leukocytes generate extracellular microbicidal activity by elastase-mediated activation of secreted proprotegrins. Panyutich A, et al. **Infect Immun** 1997 Mar;65(3):978-85

Evaluation of bacterial survival and phagocyte function with a fluorescence-based microplate assay. Shiloh MU, et al. **Infect Immun** 1997 Aug;65(8):3193-8

Bactericidal antibody responses of juvenile rhesus monkeys immunized with group B Neisseria meningitidis capsular polysaccharide-protein conjugate vaccines. Zollinger WD, et al. **Infect Immun** 1997 Mar;65(3):1053-60

External quality assessment of the serum bactericidal test: results of a methodology/interpretation questionnaire. MacGowan A, et al. **J Antimicrob Chemother** 1997 Feb; 39(2):277-84

Biochemical characterization of recombinant fusions of lipopolysaccharide binding protein and bactericidal/permeability-increasing protein. Implications in biological activity. Abrahamson SL, et al. **J Biol Chem** 1997 Jan 24;272(4):2149-55

Enhanced susceptibility of Staphylococcus aureus pretreated with cefepime and cefpodoxime to leukocyte activity. Herrera I, et al. **J Chemother** 1995 Nov;7 Suppl 4:23-5

Enhancing bactericidal activity of bovine lymphoid cells during the periparturient period. Shafer-Weaver KA, et al. **J Dairy Sci** 1996 Aug;79(8):1347-52

Effect of dietary flaxseed on fatty acid composition, superoxide, nitric oxide generation and antilisterial activity of peritoneal macrophages from female Sprague-Dawley rats. Babu US, et al. **Life Sci** 1997;60(8):545-54

Increased microbicidal activity of human monoblastoid cells upon long-term exposure to dideoxycytidine. Brandi G, et al. **Life Sci** 1997;60(8):519-28

Heterogeneity in the complement-dependent bacteriolysis within the species of Borrelia burgdorferi. Breitner-Ruddock S, et al. **Med Microbiol Immunol (Berl)** 1997 Mar;185(4):253-60

Lactate enhancement of sialylation of gonococcal lipopolysaccharide and of induction of serum resistance by CMP-NANA is not due to direct activation of the sialyltransferase: metabolic events are involved. Parsons NJ, et al. **Microb Pathog** 1996 Sep;21(3):193-204

Effect of culture conditions on the susceptibility of enteroaggregative Escherichia coli to human serum and polymorphonuclear leucocytes. Haque MA, et al. **Microbios** 1996;86(349):213-23

Target antigen for anti-neutrophil cytoplasmic antibodies in inflammatory bowel disease [letter; comment] Stoffel MP, et al. **Scand J Gastroenterol** 1996 Sep;31(9):943-4. Comment on: Scand J Gastroenterol 1995 Jul;30(7):693-8.

The meningococcal transferrin-binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of killing homologous and heterologous strains. Ala'Aldeen DA, et al. **Vaccine** 1996 Jan;14(1):49-53

Serum antibacterial and antitoxin responses in clinical cholera caused by Vibrio cholerae O139 Bengal and evaluation of their importance in protection [published erratum appears in Vaccine 1997 Feb;15(2):246] Nandy RK, et al. **Vaccine** 1996 Aug;14(12):1137-42

Multiple regulation of carp (Cyprinus carpio L.) macrophages and neutrophilic granulocytes by serum factors: influence of infection with atypical Aeromonas salmonicida. Verburg-van Kemenade BM, et al. **Vet Immunol Immunopathol** 1996 May;51(1-2):189-200

[The role of complement in inhibition of intracellular bactericidal activity to P. aeruginosa of PMN in seriously burnt patients] Wang Z, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):197-201 (Eng. Abstr.) **(Chi)**

[Role of the ability of bacteria to inactivate natural anti-infective resistance factors in their resistance to blood bactericidal action (blood serum)] Bukharin OV, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):174-6 **(Rus)**

[State of intracellular components of the neutrophil bactericidal system in patients with cholecystitis] Nagoev BS, et al. **Klin Lab Diagn** 1997 Apr;(4):6 **(Rus)**

[The metabolism and bactericidal properties of the blood neutrophilic granulocytes in experimental typhoid intoxication] Ovcharenko NI, et al. **Mikrobiol Z** 1997 Mar-Apr;59(2):78-84 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Effects of N-acetylcysteine on bacterial clearance. Koch T, et al. **Eur J Clin Invest** 1996 Oct;26(10):884-92

The effect of the bacterial product, succinic acid, on neutrophil bactericidal activity. Abdul-Majid KB, et al. **FEMS Immunol Med Microbiol** 1997 Feb;17(2):79-86

Influence of ozone on the susceptibility of Escherichia coli K1 to the bactericidal action of serum. Jankowski S, et al. **Folia Microbiol (Praha)** 1996;41(5):395-400

Meropenem-induced alteration of the susceptibility of Escherichia coli and Staphylococcus aureus to the bactericidal activity of human polymorphonuclear leucocytes. Herrera-Insúa I, et al. **J Antimicrob Chemother** 1997 Feb;39(2):223-8

The effect of quinolones on the intracellular killing of Staphylococcus aureus in neutrophil granulocytes. Nielsen SL, et al. **J Antimicrob Chemother** 1997 May;39(5):617-22

Rufloxacin enhances susceptibility of Escherichia coli to leukocyte activity. Herrera I, et al. **J Chemother** 1995 Nov; 7 Suppl 4:36-7

Casein effects on the myeloperoxidase-mediated oxygen-dependent bactericidal activity of bovine neutrophils. Cooray R. **Vet Immunol Immunopathol** 1996 May;51(1-2):55-65

[Effect of five fluoroquinolones on the bactericidal activity of human polymorphonuclear leukocytes against Staphylococcus aureus] Ballesta S, et al. **Enferm Infecc Microbiol Clin** 1996 Dec;14(10):600-3 (Eng. Abstr.) **(Spa)**

GENETICS

Inducible immune factors of the vector mosquito Anopheles gambiae: biochemical purification of a defensin antibacterial peptide and molecular cloning of preprodefensin cDNA. Richman AM, et al. **Insect Mol Biol** 1996 Aug;5(3):203-10

IMMUNOLOGY

Standardization and a multilaboratory comparison of Neisseria meningitidis serogroup A and C serum bactericidal assays. The Multilaboratory Study Group. Maslanka SE, et al. **Clin Diagn Lab Immunol** 1997 Mar; 4(2):156–67

Superoxide anion (O2–) production and bactericidal capacity of polymorphonuclear neutrophils obtained from patients subjected to glucagon test. Szczepanik A, et al. **Int J Immunopharmacol** 1995 Dec;17(12):1027–31

[Effects of human i.v. immunoglobulin on bacterial clearance and granulocyte function in endotoxinemia] Koch T, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jul;32(7):420–5 (Eng. Abstr.) **(Ger)**

[Usefulness of the microcolorimetric method of XTT reduction for evaluation of intracellular killing of pathogens] Burow A, et al. **Med Dosw Mikrobiol** 1995; 47(3–4):203–212 (Eng. Abstr.) **(Pol)**

[The resistance of Francisella tularensis to the bactericidal action of normal serum as a criterion for evaluating the virulence of the bacterium] Pavlovich NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):7–10 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

The mechanism of bactericidal action of normal human serum against Salmonella rods. Mokracka–Latajka G, et al. **Acta Microbiol Pol** 1996;45(2):169–80

Wound hypoxia and acidosis limit neutrophil bacterial killing mechanisms. Allen DB, et al. **Arch Surg** 1997 Sep; 132(9):991–6

Polymorphonuclear cells in chronic hemodialysis patients have intact phagocytotic and impaired bactericidal activities. Iida T, et al. **Nephron** 1997;75(1):41–7

Impaired bacterial clearance after activation of the complement and coagulation systems. Koch T, et al. **Shock** 1997 Jan;7(1):42–8

Studies on polymorphonuclear leukocyte bactericidal function: II. The role of oxidative stress. Simms HH, et al. **Shock** 1997 May;7(5):339–44

Studies on polymorphonuclear leukocyte bactericidal function: the role of exogenous cytokines. Simms HH, et al. **Shock** 1997 Feb;7(2):84–9

BLOOD BANKS

Scientific, logistical, and ethical issues related to creation of a stem cell repository for use in experimental trials of gene therapy for AIDS. Fraser JK, et al. **AIDS Res Hum Retroviruses** 1997 Jul 20;13(11):905–7

Cord blood as an alternative source of haemopoietic stem cells. Hows J, et al. **Ann Oncol** 1996;7 Suppl 2:47–51 (19 ref.)

The impact of red cell substitutes on the blood service in Japan. Sekiguchi S. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):53–60

In–line filtration of SAG–M red cell concentrates prepared in top/bottom or conventional bag systems. Müller N. **Beitr Infusionsther Transfusionsmed** 1996;33:121–4

Highly sensitive chemiluminescent method for the detection of maternal cell contamination in human cord blood stored for allotransplantation: the experience of the Milano cord blood bank [letter] Poli F, et al. **Blood** 1997 Apr 15; 89(8):3061–2

Umbilical cord blood collection and separation for haematopoietic progenitor cell banking. Ademokun JA, et al. **Bone Marrow Transplant** 1997 May;19(10):1023–8

In vitro effects of a novel hemoglobin–based oxygen carrier on routine chemistry, therapeutic drug, coagulation, hematology, and blood bank assays. Callas DD, et al. **Clin Chem** 1997 Sep;43(9):1744–8

Provision of an out–of–hours blood banking service at a satellite hospital without blood bank staff. Cheng G, et al. **Clin Lab Haematol** 1996 Sep;18(3):201–5

Should we do another test? Decision making in blood banking. Hanson M. **Clin Lab Med** 1996 Dec;16(4):883–93

Informatics applications in blood banking. Kern DA, et al. **Clin Lab Med** 1996 Dec;16(4):947–60 (42 ref.)

Error detection and reduction in blood banking. Motschman TL, et al. **Clin Lab Med** 1996 Dec;16(4):961–73 (23 ref.)

Coagulation for blood bankers. Stubbs JR. **Clin Lab Med** 1996 Dec;16(4):837–71 (226 ref.)

"For any shortcomings on the part of the Red Cross, we are deeply sorry" [letter; comment] Jackson FI. **CMAJ** 1997 Aug 1;157(3):246. Comment on: Can Med Assoc J 1997 May 15;156(10):1401–2.

HIV infection transmitted through transfusion. **Commun Dis Rep CDR Wkly** 1997 Apr 18;7(16):137

ACOG committee opinion. Routine storage of umbilical cord blood for potential future transplantation. Number 183, April 1997. Committee on Obstetric Practice. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1997 Aug;58(2):257–9

Placental blood transplantation and autologous banking—caveat emptor. Johnson FL. **J Pediatr Hematol Oncol** 1997 May–Jun;19(3):183–6

Umbilical–cord–blood banking: lessons learned from gamete donation. Zilberstein M, et al. **Lancet** 1997 Mar 1; 349(9052):642–3

Potential for clinical use of viable pluripotent progenitor cells in blood bank stored human umbilical cord blood. Lu S, et al. **Life Sci** 1997;61(12):1113–23

Cord blood banking and transplantation [editorial] Vowels MR, et al. **Med J Aust** 1997 Jun 2;166(11):572–3

Storage of newborn stem cells for future use [letter; comment] Repke JT, et al. **Obstet Gynecol** 1997 Jun; 89(6):1049–50. Comment on: Obstet Gynecol 1997 Feb;89(2):300–3.

American Association of Blood Banks 50th annual meeting. Denver, Colorado, October 18–22, 1997. Abstracts. **Transfusion** 1997 Sep;37(9 Suppl):1S–144S

Remote electronic blood release system. Cox C, et al. **Transfusion** 1997 Sep;37(9):960–4

National blood programs in developed countries. McCullough J. **Transfusion** 1996 Nov–Dec; 36(11–12):1019–32 (9 ref.)

The "virtual" transfusion service laboratory [editorial] Shulman IA. **Transfusion** 1997 Sep;37(9):883–5

Donors and the United States blood supply. Westphal RG. **Transfusion** 1997 Feb;37(2):237–41

[Transfusion service of the county of Funen. Organizational and economical aspects of restructuring] Georgsen J, et al. **Ugeskr Laeger** 1997 Mar 17;159(12):1758–62 (Eng. Abstr.) **(Dan)**

[Utilization of serum banks for veterinary seroepidemiological research serving the Dutch livestock industry] Elbers AR. **Tijdschr Diergeneeskd** 1996 Dec 1; 121(23):676–8 (Eng. Abstr.) **(Dut)**

[Medical and economic evaluation of donated blood screening for hepatitis C and non–A, non–B, non–C hepatitis] Vergnon P, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):66–79 (Eng. Abstr.) **(Fre)**

[Mechanisms of metabolic changes after in–line filtration of erythrocytes] Matthes G, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:130–5 (Eng. Abstr.) **(Ger)**

[Hemocompatibility testing of polymers] Seyfert UT, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:241–6 (Eng. Abstr.) **(Ger)**

[Quality assurance in transfusion medicine: organization of a quality assurance system exemplified by the Heidelberg University Blood Bank] Stahl D, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:247–56 (Eng. Abstr.) **(Ger)**

[Automated blood component collection with the MCS 3p] Zeiler T, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:145–9 (Eng. Abstr.) **(Ger)**

ECONOMICS

Comprehensive reimbursement model: an alternative to fee–for–service reimbursement by blood centers. Fuller MJ, et al. **Transfus Med Rev** 1997 Jan;11(1):38–43 (4 ref.)

HISTORY

The American Association of Blood Banks founded 50 years ago. Schmidt PJ. **Transfusion** 1997 Jan;37(1):93–4

Charles Drew, a legend in our time. Schmidt PJ. **Transfusion** 1997 Feb;37(2):234–6

LEGISLATION & JURISPRUDENCE

An urgent need to include blood substitute as a priority area in any national policies on blood supply [editorial] Chang TM. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):vii–ix

Legal issues in blood banking. Elements of informed consent. Sherman LA. **Clin Lab Med** 1996 Dec;16(4):931–46 (42 ref.)

"For any shortcomings on the part of the Red Cross, we are deeply sorry" [letter; comment] Davey M, et al. **CMAJ** 1997 Aug 1;157(3):245–6. Comment on: Can Med Assoc J 1997 May 15;156(10):1401–2.

"For any shortcomings on the part of the Red Cross, we are deeply sorry" [letter; comment] Normand A. **CMAJ** 1997 Aug 1;157(3):245; discussion 246. Comment on: Can Med Assoc J 1997 May 15;156(10):1401–2.

Guilty pleas intensify row over contaminated blood [news] Nathan R. **Nat Med** 1997 May;3(5):480–1

Current good manufacturing practices for transfusion medicine. Sazama K. **Transfus Med Rev** 1996 Oct; 10(4):286–95 (18 ref.)

[Judicial liability and blood transfusion—equity, opportunity?] Hermitte MA. **Transfus Clin Biol** 1997; 4(3):321–8 (Eng. Abstr.) **(Fre)**

METHODS

Reducing the risk of HIV transmission through blood transfusion by donor self–deferral. Urwijitaroon Y, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):452–6

The potential for bacterial testing of blood products [editorial] Wagner SJ. **Zentralbl Bakteriol** 1996 Mar; 283(3):253–7

ORGANIZATION & ADMINISTRATION

Quality versus cost containment. Schwarz S, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:9–10

Development and implementation of a perioperative autologous service program. Specht MD, et al. **AORN J** 1997 Sep;66(3):486, 489–92

With a system in turmoil, will there be enough blood? Gray C. **CMAJ** 1997 Sep 15;157(6):778–80

Situation of the blood banks in the region of the Americas, 1994–1995. **Epidemiol Bull** 1997 Mar;18(1):11–2

An evaluation of the need for shared blood donor deferral registries. Domen RE, et al. **Int J Qual Health Care** 1997 Feb;9(1):35–41

'Reserve blood donation' [letter] Subhash B. **J Indian Med Assoc** 1996 Feb;94(2):74

Discovering objects in a blood recipient information system. Qiu D, et al. **Med Inf (Lond)** 1995 Jul–Sep;20(3):209–28

Establishment of human DNA and plasma or serum banks for research purposes—a proposal [letter] de St Jean van der Reit F. **S Afr Med J** 1997 May;87(5):622–3

ISBT Code 128 and code changes as part of the implementation of a national IT system for the English National Blood Service [editorial] Doughty R, et al. **Transfus Med** 1996 Dec;6(4):299–301

A blood center communication plan and guideline for assisting hospitals with the implementation of the new international uniform bar code–labeling standard. Kerr MJ. **Transfusion** 1997 Sep;37(9):965–9

The Belfast Cord Blood Bank. Bharucha C, et al. **Ulster Med J** 1997 May;66(1):9–12

[Aspects of blood transfusion in Djibouti] Massenet D, et al. **Med Trop (Mars)** 1997;57(2):202–5 (Eng. Abstr.) **(Fre)**

[Criteria of good manufacturing practice conforming electronic data processing] Gabriel C. **Beitr Infusionsther Transfusionsmed** 1996;33:257–64 (Eng. Abstr.) **(Ger)**

[Filling out the transfusion request form in a general hospital (letter)] Calvo Villas JM, et al. **Sangre (Barc)** 1996 Oct; 41(5):406 **(Spa)**

STANDARDS

Tools for improving quality in the transfusion service. Berte LM. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S36–42 (30 ref.)

Fellowship training programs in blood banking and transfusion medicine: results of a national survey. Domen RE, et al. **Am J Clin Pathol** 1996 Nov;106(5):584–7

The Krever inquiry: time to drop the appeals [editorial] [see comments] Hoey J. **Can Med Assoc J** 1997 May 15; 156(10):1401–2. Comment in: CMAJ 1997 Aug 1;157(3):245; discussion 246. Comment in: CMAJ 1997 Aug 1;157(3):245–6. Comment in: CMAJ 1997 Aug 1;157(3):246.

Serratia marcescens contamination of feline whole blood in a hospital blood bank. Hohenhaus AE, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):794–8

Criteria for screening blood donors: science or politics? [letter; comment] Murphy JL. **JAMA** 1997 Jul 23–30; 278(4):289. Comment on: JAMA 1997 Mar 25;277(12):967–72.

Ethical issues in umbilical cord blood banking. Working Group on Ethical Issues in Umbilical Cord Blood Banking. Sugarman J, et al. **JAMA** 1997 Sep 17;278(11):938–43 (31 ref.)

Estimates of infectious disease risk factors in US blood donors. Retrovirus Epidemiology Donor Study [see comments] Williams AE, et al. **JAMA** 1997 Mar 26; 277(12):967–72. Comment in: JAMA 1997 Jul 23–30;278(4):289.

A quality improvement team on autologous and directed–donor blood availability. Allison MJ, et al. **Jt Comm J Qual Improv** 1996 Dec;22(12):801–10

Guidelines for pre–transfusion compatibility procedures in blood transfusion laboratories. BCSH Blood Transfusion Task Force. **Transfus Med** 1996 Sep;6(3):273–83

Does GB virus C ('hepatitis G virus') threaten the safety of our blood supply? [editorial] Barbara JA. **Transfus Med** 1997 Jun;7(2):75–6

SampLink: a new system for the collection of donor blood samples. Shinar E, et al. **Transfus Med** 1996 Jun;6(2):149–53

Current good manufacturing practices for transfusion medicine. Sazama K. **Transfus Med Rev** 1996 Oct; 10(4):286–95 (18 ref.)

HIV and the blood supply: an analysis of crisis decision making. Executive summary. The Institute of Medicine, National Academy of Sciences Committee to Study HIV Transmission Through Blood and Blood Products [see comments] Leveton LB, et al. **Transfusion** 1996 Oct; 36(10):919–27. Comment in: Transfusion 1996 Oct;36(10):928–31. Comment in: Transfusion 1996 Oct;36(10):932–4.

More on the safety of cord blood collection [letter; comment] Sirchia G, et al. **Transfusion** 1996 Oct;36(10):937–8. Comment on: Transfusion 1996 Mar;36(3):288–90.

The role of the American Association of Blood Banks in international blood banking: a vision for the next 50 years [editorial] Smith DM Jr, et al. **Transfusion** 1996 Sep; 36(9):765–7

Blood safety decisions, 1982 to 1986: perceptions and misconceptions [comment] Zuck TF, et al. **Transfusion** 1996 Oct;36(10):928–31. Comment on: Transfusion 1996 Oct;36(10):919–27.

Sterility testing of blood products in 1994/1995 by three cooperating blood banks in The Netherlands. Soeterboek AM, et al. **Vox Sang** 1997;72(1):61–2

[Transfusion medicine—Scandinavian recommendations] Gudmundsson S, et al. **Nord Med** 1997 Apr;112(4):129–30 **(Dan)**

[The role of quality control systems in the blood bank] Blanco

BLOOD BANKS

L. **Sangre (Barc)** 1995 Dec;40(6):517–8 **(Spa)**
[Viral safety of hemoderivatives: in search of zero risk (editorial; comment)] Hernández JM, et al. **Sangre (Barc)** 1996 Apr;41(2):97–100. Comment on: Sangre (Barc) 1996 Apr;41(2):125–30. Comment on: Sangre (Barc) 1996 Apr;41(2):131–36. **(Spa)**
[Great safety in Scandinavian blood handling (editorial)] Högman CF. **Nord Med** 1996 Sep;111(7):210–1 **(Swe)**
[Various methods for good blood supply in Scandinavia] Oldinger E. **Nord Med** 1996 Sep;111(7):212–8 **(Swe)**

STATISTICS & NUMERICAL DATA

Self-sufficiency for plasma and plasma proteins in Norway. Solheim BG, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:98–102
[Collection and utilization of plasma in Austria: on the way to national self-sufficiency] Bergmann H, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:103–10 (Eng. Abstr.) **(Ger)**

SUPPLY & DISTRIBUTION

An urgent need to include blood substitute as a priority area in any national policies on blood supply [editorial] Chang TM. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):vii–ix
Pressure on blood supplies [news] **Aust Vet J** 1996 Aug; 74(2):101

TRENDS

[Everyone and nobody has the responsibility for the future of plasma products (letter)] Sjölin S. **Lakartidningen** 1996 Nov 13;93(46):4137, 4139 **(Swe)**

UTILIZATION

From maximum surgical blood ordering schedule to unlimited computer crossmatching: evolution of blood transfusion for surgical patients at a tertiary hospital in Hong Kong. Chan AH, et al. **Transfus Med** 1996 Jun; 6(2):121–4

BLOOD-BORNE PATHOGENS

see related

UNIVERSAL PRECAUTIONS

Effect of time of day and duration into shift on hazardous exposures to biological fluids [see comments] Macias DJ, et al. **Acad Emerg Med** 1996 Jun;3(6):605–10. Comment in: Acad Emerg Med 1996 Jun;3(6):566–7.
Once more unto the breach: controlling hepatitis C in injecting drug users. Wodak A, et al. **Addiction** 1996 Feb; 91(2):181–4 (33 ref.)
Virus inactivation in blood [editorial] Ben-Hur E, et al. **AIDS** 1996 Sep;10(11):1183–90
The role of psychosocial assessment and support in occupational exposure management. Tannebaum J, et al. **AIDS Educ Prev** 1997 Jun;9(3):275–84
Blood contacts in the operating room after hospital-specific data analysis and action. White MC, et al. **Am J Infect Control** 1997 Jun;25(3):209–14
HIV and bloodborne infections in emergency medicine. American College of Emergency Physicians. **Ann Emerg Med** 1997 Apr;29(4):571–2
AORN's multisite clinical study of bloodborne exposures in OR personnel. Thompson J. **AORN J** 1996 Feb; 63(2):428–30, 433
HCV transmission through blood transfusion: are HCV-RNA titer in donor serum and genotype major determinants of infection outcome? Cardoso MS, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:225–30
Preliminary report: biosafety analysis of one-way backflow valves for multiple patient use of low osmolar intravenous contrast solution. **Can Commun Dis Rep** 1996 Feb 15; 22(4):28–31
Lessons from two linked clusters of acute hepatitis B in cardiothoracic surgery patients [see comments] Heptonstall J. **Commun Dis Rep CDR Rev** 1996 Aug 16;6(9):R119–25 . Comment in: Commun Dis Rep CDR Rev 1996 Nov 8;6(12):R178.
Response to the discovery of two practising surgeons infected with hepatitis B. Mukerjee AK, et al. **Commun Dis Rep CDR Rev** 1996 Aug 16;6(9):R126–8
Possible transmission of hepatitis B virus from a health care worker to a patient. **Commun Dis Rep CDR Wkly** 1996 Aug 16;6(33):283, 286
Incidence and risk factors of occupational blood exposure: a nation-wide survey among Danish doctors. Nelsing S, et al. **Eur J Epidemiol** 1997 Jan;13(1):1–8
Percutaneous blood exposure among Danish doctors: exposure mechanisms and strategies for prevention. Nelsing S, et al. **Eur J Epidemiol** 1997 Jun;13(4):387–93
Management of healthcare workers infected with hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or other bloodborne pathogens. AIDS/TB Committee of the Society for Healthcare Epidemiology of America. **Infect Control Hosp Epidemiol** 1997 May;18(5):349–63
Occupational hazards of operating: opportunities for improvement. Davis MS. **Infect Control Hosp Epidemiol** 1996 Oct;17(10):691–3 (16 ref.)
Accidental blood contact during orthopedic surgical procedures. Folin AC, et al. **Infect Control Hosp Epidemiol** 1997 Apr;18(4):244–6
Reducing occupational exposure to bloodborne pathogens: where do we stand a decade later? [editorial] Jagger J. **Infect Control Hosp Epidemiol** 1996 Sep;17(9):573–5
Operative precautions in HIV and other bloodborne virus diseases. Raahave D. **Infect Control Hosp Epidemiol** 1996 Aug;17(8):529–31
Bloodborne pathogen transmission in health care workers. Risks and prevention strategies. Cardo DM, et al. **Infect Dis Clin North Am** 1997 Jun;11(2):331–46 (90 ref.)
Roundtable of Experts in Surgery Blood Management--consensus statement. Messmer K. **Infusionsther Transfusionsmed** 1996 Jun;23(3):143–6 (15 ref.)
Optimising the safety of blood products [editorial; comment] Pauli G. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):122–3. Comment on: Infusionsther Transfusionsmed 1996 Jun;23(3):124–30.
How accurate is serologic testing of plasma pools for hepatitis B virus surface antigen, anti-human immunodeficiency virus 1 and 2, and anti-hepatitis C virus? [see comments] Rabenau H, et al. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):124–30. Comment in: Infusionsther Transfusionsmed 1996 Jun;23(3):122–3.
Accidental exposures to blood and body fluids among health care workers in dental teaching clinics: a prospective study. Ramos-Gomez F, et al. **J Am Dent Assoc** 1997 Sep; 128(9):1253–61
A descriptive study of blood exposure incidents among healthcare workers in a university hospital in Sweden. Lymer UB, et al. **J Hosp Infect** 1997 Mar;35(3):223–35
Bloodborne pathogens risk and precautions among urban fire-rescue workers. Carrillo L, et al. **J Occup Environ Med** 1996 Sep;38(9):920–4
Orthopedic trauma surgeons' attitudes and practices towards bloodborne pathogens. McCarthy ML, et al. **J Orthop Trauma** 1996;10(6):383–8
Nappy pin needlestick injury and blood-borne viruses [letter] Davies MW. **J Paediatr Child Health** 1996 Aug;32(4):353
Impact of HIV risk and infection and the role of prevention services. Watters JK. **J Subst Abuse Treat** 1996 Sep-Oct; 13(5):375–85; discussion 439 (60 ref.)
Guidelines regarding HIV and other bloodborne pathogens in vascular/interventional radiology. SCVIR Technology Assessment Committee. Hansen ME, et al. **J Vasc Interv Radiol** 1997 Jul-Aug;8(4):667–76
From the Centers for Disease Control and Prevention. Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices--Ohio and New York City, 1996. **JAMA** 1997 Apr 9;277(14):1106–7
Syringe and needle regulation, blood-borne disease transmission, and concern for public safety [letter] Friedland G. **JAMA** 1997 Apr 16;277(15):1202–3; discussion 1203
Prevention of HIV/AIDS and other blood-borne diseases among injection drug users. A national survey on the regulation of syringes and needles [see comments] Gostin LO, et al. **JAMA** 1997 Jan 1;277(1):53–62. Comment in: JAMA 1997 Apr 16;277(15):1203; discussion 1203.
Platelet transfusion reaction due to Yersinia enterocolitica [letter] Kuehnert MJ, et al. **JAMA** 1997 Aug 20;278(7):550
Syringe and needle regulation, blood-borne disease transmission, and concern for public safety [letter; comment] Tsao K, et al. **JAMA** 1997 Apr 16;277(15):1203; discussion 1203. Comment on: JAMA 1997 Jan 1;277(1):53–62.
Incidence of bloodborne virus infection and risk behaviours in a cohort of injecting drug users in Victoria, 1990–1995. Crofts N, et al. **Med J Aust** 1997 Jul 7;167(1):17–20
Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices--Ohio and New York City, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Mar 14;46(10):217–21
Occupational exposure to blood among medical students [letter; comment] Barry MA. **N Engl J Med** 1997 Mar 27; 336(13):966; discussion 966–7. Comment on: N Engl J Med 1996 Oct 10;335(15):1150–3.
Occupational exposure to blood among medical students [letter; comment] Wintermeyer SF. **N Engl J Med** 1997 Mar 27;336(13):966; discussion 966–7. Comment on: N Engl J Med 1996 Oct 10;335(15):1150–3.
Bloodborne pathogens' unseen dangers. Johnson LF. **Occup Health Saf** 1996 Sep;65(9):56–8
Virus inactivation of blood products by phenothiazine dyes and light. Mohr H, et al. **Photochem Photobiol** 1997 Mar; 65(3):441–5
Comparison of methylene blue and methylene violet for photoinactivation of intracellular and extracellular virus in red cell suspensions. Skripchenko A, et al. **Photochem Photobiol** 1997 Mar;65(3):451–5
The effect of disinfection on viability and function of baboon red blood cells. Valeri CR, et al. **Photochem Photobiol** 1997 Mar;65(3):446–50
[Measures to take after exposure to blood (letter)] Rabaud C, et al. **Presse Med** 1997 May 17;26(16):769 **(Fre)**
[Fatal Yersinia infection after intraoperative transfusion] Schwalbe B, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Dec; 31(10):658–60 (Eng. Abstr.) **(Ger)**
[Prevalence of hepatitis C virus in blood donors and comparison of 4 different anti-HCV differentiation tests] Hennig H, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:231–4 (Eng. Abstr.) **(Ger)**
[Nanofiltration in production of Beriplex P/N: increasing the capacity of virus elimination while maintaining product quality] Römisch J, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:220–4 (Eng. Abstr.) **(Ger)**
[Expanded serologic infection testing of autologous blood donors: a report of experiences] Zimmermann R, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:196–200 (Eng. Abstr.) **(Ger)**
[Needlestick injury with infectious material--what is the procedure?] Gürtler L. **Fortschr Med** 1997 Feb 10; 115(4):45–6 **(Ger)**
[The risk of needle-stick-injuries during abdominal closure] Meyer D, et al. **Zentralbl Chir** 1996;121(1):30–4 (Eng. Abstr.) **(Ger)**
[Blood, AIDS and politics (editorial)] Modan B. **Harefuah** 1996 Jun 2;130(11):748–9 **(Heb)**
[Blood exposure during labor. A common risk of contamination that may be reduced] Eriksson M, et al. **Lakartidningen** 1997 Apr 2;94(14):1302–4 **(Swe)**

ISOLATION & PURIFICATION

Virus removal studies using nanofiltration membranes. O'Grady J, et al. **Dev Biol Stand** 1996;88:319–26
The risk of transmitting HCV, HBV or HIV by blood transfusion in Victoria. Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):584–6

RADIATION EFFECTS

Improving blood safety with light. Ben-Hur E, et al. **Photochem Photobiol** 1997 Mar;65(3):427
Virucidal treatment of blood protein products with UVC radiation. Chin S, et al. **Photochem Photobiol** 1997 Mar; 65(3):432–5

BLOOD-BRAIN BARRIER

Immunocytochemical evaluation of blood-brain barrier to endogenous albumin in scrapie-infected mice. Vorbrodt AW, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):341–8
Divergent effects of cocaine on cytokine production by lymphocytes and monocyte/macrophages: HIV-1 enhancement by cocaine within the blood-brain barrier. Fiala AM, et al. **Adv Exp Med Biol** 1996;402:145–56
Sodium- and chloride-dependent transport of taurine at the blood-brain barrier. Tsuji A, et al. **Adv Exp Med Biol** 1996; 403:385–91 (12 ref.)
The role of the blood-brain barrier transporter PTS-1 in regulating concentrations of methionine enkephalin in blood and brain. Banks WA, et al. **Alcohol** 1997 May-Jun; 14(3):237–45
Blood-cerebrospinal fluid barrier dysfunction for high molecular weight proteins in Alzheimer disease and major depression: indication for disease subsets. Hampel H, et al. **Alzheimer Dis Assoc Disord** 1997 Jun;11(2):78–87
Receptor-mediated transcytosis of transferrin through blood-brain barrier endothelial cells. Descamps L, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1149–58
Glucose transport by isolated plasma membranes of the bovine blood-brain barrier. Lee WJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1552–7
Differential permeability of the BBB in acute EAE: enhanced transport of TNT-alpha. Pan W, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E636–42
Ontogeny of blood-brain barrier function in ovine fetuses, lambs, and adults. Stonestreet BS, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1594–601
Transport of pituitary adenylate cyclase-activating polypeptide across the blood-brain barrier and the prevention of ischemia-induced death of hippocampal neurons. Banks WA, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:270–7; discussion 277–9 (50 ref.)
Complement activation in the central nervous system following blood-brain barrier damage in man. Lindsberg PJ, et al. **Ann Neurol** 1996 Oct;40(4):587–96
Synthesis and imaging of blood-brain-barrier permeable nitroxyl-probes for free radical reactions in brain of living mice. Sano H, et al. **Biochem Mol Biol Int** 1997 Jul; 42(3):641–7
Glucose transport in immortalized rat brain capillary endothelial cells in vitro: transport activity and GLUT1 expression. Regina A, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):135–43
Peptide targeting and delivery across the blood-brain barrier utilizing synthetic triglyceride esters: design, synthesis, and bioactivity. Patel D, et al. **Bioconjug Chem** 1997 May-Jun; 8(3):434–41
Pial-glial barrier abnormalities in fetuses with Fukuyama congenital muscular dystrophy. Yamamoto T, et al. **Brain Dev** 1997 Jan;19(1):35–42
Intercellular adhesion molecule-1 (ICAM-1) upregulation in human brain tumors as an expression of increased blood-brain barrier permeability. Lossinsky AS, et al. **Brain Pathol** 1995 Oct;5(4):339–44
Nanoparticles, a drug carrier system to pass the blood-brain barrier, permit central analgesic effects of i.v. dalargin injections. Schröder U, et al. **Brain Res** 1996 Feb 26; 710(1–2):121–4
Drug delivery to brain tumors. Walker WL, et al. **Bull Math Biol** 1996 Nov;58(6):1047–74

Cell adhesion, cell junctions and the blood-brain barrier. **Staddon JM**, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):622–7 (51 ref.)

Developmental expression of murine Beta-trace in embryos and adult animals suggests a function in maturation and maintenance of blood-tissue barriers. Hoffmann A, et al. **Dev Dyn** 1996 Nov;207(3):332–43

Functional evidence for the ability of angiotensin AT1 receptor antagonists to cross the blood-brain barrier in rats. Polidori C, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):259–67

Spinal cord compression injury in guinea pigs: structural changes of endothelium and its perivascular cell associations after blood-brain barrier breakdown and repair. Jaeger CB, et al. **Exp Neurol** 1997 Apr;144(2):381–99

Blood-brain barrier permeability to ebiratide and TNF in acute spinal cord injury. Pan W, et al. **Exp Neurol** 1997 Aug;146(2):367–73

Brain-to-blood active transport of beta-alanine across the blood-brain barrier. Komura J, et al. **FEBS Lett** 1997 Jan 2;400(1):131–5

A promising rat model of Alzheimer's disease-like neuropathology. Pluta R, et al. **Folia Morphol (Warsz)** 1996; 55(4):417–9

Endothelin-like immunoreactivity in hippocampus following transient global cerebral ischemia. II. The blood-brain interphase. Gajkowska B, et al. **Folia Neuropathol** 1997; 35(1):49–59

Blood-brain barrier methionine transport after resuscitation from 10-min cardiac arrest in rats. Kapuściński A, et al. **Folia Neuropathol** 1996;34(2):72–5

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of sodium borocaptate with or without blood-brain barrier disruption. Yang W, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):663–72

Ependymins: meningeal-derived extracellular matrix proteins at the blood-brain barrier. Hoffmann W, et al. **Int Rev Cytol** 1996;165:121–58 (145 ref.)

Ontogeny of four blood-brain barrier markers: an immunocytochemical comparison of pial and cerebral cortical microvessels. Cassella JP, et al. **J Anat** 1996 Oct; 189 (Pt 2):407–15

A new function for the LDL receptor: transcytosis of LDL across the blood-brain barrier. Dehouck B, et al. **J Cell Biol** 1997 Aug 25;138(4):877–89

Angiotensin II-induced fluid phase endocytosis in human cerebromicrovascular endothelial cells is regulated by the inositol-phosphate signaling pathway. Stanimirovic D, et al. **J Cell Physiol** 1996 Dec;169(3):455–67

Transport of D-glucose and 2-fluorodeoxyglucose across the blood-brain barrier in humans. Hasselbalch SG, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):659–66

Interleukin-8 released into the cerebrospinal fluid after brain injury is associated with blood-brain barrier dysfunction and nerve growth factor production. Kossmann T, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):280–9

Role of nitric oxide synthase inhibition in leukocyte-endothelium interaction in the rat pial microvasculature. Lindauer U, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1143–52

Pathophysiological changes in cerebral circulation, oxidative metabolism and blood-brain barrier in patients with acute liver failure. Tailored cerebral oxygen utilization. Larsen FS, et al. **J Hepatol** 1997 Jul;27(1):231–8 (65 ref.)

Magnetic resonance imaging of the brain: blood partition coefficient for water: application to spin-tagging measurement of perfusion. Roberts DA, et al. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):363–6

Brain mast cell degranulation regulates blood-brain barrier. Zhuang X, et al. **J Neurobiol** 1996 Dec;31(4):393–403

Transport of iron in the blood-brain-cerebrospinal fluid system. Bradbury MW. **J Neurochem** 1997 Aug; 69(2):443–54 (121 ref.)

Role of P-glycoprotein in the blood-brain transport of colchicine and vinblastine. Drion N, et al. **J Neurochem** 1996 Oct;67(4):1688–93

Passage of a delta-opioid receptor selective enkephalin, [D-penicillamine2,5] enkephalin, across the blood-brain and the blood-cerebrospinal fluid barriers. Williams SA, et al. **J Neurochem** 1996 Mar;66(3):1289–99

Ontogenetic development of diffusional restriction to protein at the pial surface of the rat brain: an electron microscopical study. Balslev Y, et al. **J Neurocytol** 1997 Mar;26(3):133–48

Blood-brain barrier breakdown and increased intercellular adhesion molecule (ICAM-1/CD54) expression after Semliki Forest (A7) virus infection facilitates the development of experimental allergic encephalomyelitis. Erälinna JP, et al. **J Neuroimmunol** 1996 May; 66(1-2):103–14

SV40 large T immortalised cell lines of the rat blood-brain and blood-retinal barriers retain their phenotypic and immunological characteristics. Greenwood J, et al. **J Neuroimmunol** 1996 Dec;71(1-2):51–63

Permeability of the blood-brain and blood-spinal cord barriers to interferons. Pan W, et al. **J Neuroimmunol** 1997 Jun;76(1-2):105–11

Enriched immune-environment of blood-brain barrier deficient areas of normal adult rats. Pedersen EB, et al. **J Neuroimmunol** 1997 Jun;76(1-2):117–31

Cold-injury of the cerebral cortex: immunolocalization of cellular proteins and blood-brain barrier permeability studies. Nag S. **J Neuropathol Exp Neurol** 1996 Aug; 55(8):880–8

Magnetic resonance imaging-monitored acute blood-brain barrier changes in experimental traumatic brain injury. Barzó P, et al. **J Neurosurg** 1996 Dec;85(6):1113–21

Quantification and pharmacokinetics of blood-brain barrier disruption in humans. Zünkeler B, et al. **J Neurosurg** 1996 Dec;85(6):1056–65

Mild pre- and posttraumatic hypothermia attenuates blood-brain barrier damage following controlled cortical impact injury in the rat. Smith SL, et al. **J Neurotrauma** 1996 Jan;13(1):1–9

Relationship between immobilised artificial membrane chromatographic retention and the brain penetration of structurally diverse drugs. Salminen T, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):469–77 (64 ref.)

The blood-brain barrier: principles for targeting peptides and drugs to the central nervous system. Begley DJ. **J Pharm Pharmacol** 1996 Feb;48(2):136–46 (47 ref.)

Blood-brain-barrier transport of lipid microspheres containing clinprost, a prostaglandin I2 analogue. Minagawa T, et al. **J Pharm Pharmacol** 1996 Oct; 48(10):1016–22

Blood-brain barrier permeability and bioavailability of a highly potent and mu-selective opioid receptor antagonist, CTAP: comparison with morphine. Abbruscato TJ, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):402–9

Quantitative evaluation of brain distribution and blood-brain barrier efflux transport of probenecid in rats by microdialysis: possible involvement of the monocarboxylic acid transport system. Deguchi Y, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):551–60

Characterization, receptor mapping and blood-brain barrier transcytosis of antibodies to the human transferrin receptor. Friden PM, et al. **J Pharmacol Exp Ther** 1996 Sep; 278(3):1491–8

In vivo and in vitro evidence for nonrestricted transport of 2',7'-bis(2-carboxyethyl)-5(6)-carboxyfluorescein tetraacetoxymethyl ester at the blood-brain barrier. Hirohashi T, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):813–9

In vivo evidence for carrier-mediated efflux transport of 3'-azido-3'-deoxythymidine and 2',3'-dideoxyinosine across the blood-brain barrier via a probenecid-sensitive transport system. Takasawa K, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):369–75

Structure-internalization relationship for adsorptive-mediated endocytosis of basic peptides at the blood-brain barrier. Tamai I, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):410–5

Structure-activity relationships of a series of [D-Ala2]deltorphin I and II analogues; in vitro blood-brain barrier permeability and stability. Thomas SA, et al. **J Pharmacol Exp Ther** 1997 May;281(2):817–25

Central nervous system pharmacologic effect in conscious rats after intravenous injection of a biotinylated vasoactive intestinal peptide analog coupled to a blood-brain barrier drug delivery system. Wu D, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):77–83

Dynorphin A (1-8) analog, E-2078, crosses the blood-brain barrier in rhesus monkeys. Yu J, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):633–8

Passage of peptides across the blood-brain barrier: pathophysiological perspectives. Banks WA, et al. **Life Sci** 1996;59(23):1923–43 (181 ref.)

Cerebrovascular transport of Alzheimer's amyloid beta and apolipoproteins J and E: possible anti-amyloidogenic role of the blood-brain barrier. Zlokovic BV. **Life Sci** 1996; 59(18):1483–97 (83 ref.)

Neurotoxicity of gadolinium contrast agents for magnetic resonance imaging in rats with osmotically disrupted blood-brain barrier. Takahashi M, et al. **Magn Reson Imaging** 1996;14(6):619–23

Optimal detection of blood-brain barrier defects with Gd-DTPA MRI-the influences of delayed imaging and optimised repetition time. Tofts PS. **Magn Reson Imaging** 1996;14(4):373–80

Vascular permeability in the peripheral autonomic and somatic nervous systems: controversial aspects and comparisons with the blood-brain barrier. Kiernan JA. **Microsc Res Tech** 1996 Oct 1;35(2):122–36 (239 ref.)

Stress and the blood brain barrier [letter; comment] Azevedo I, et al. **Nat Med** 1997 Mar;3(3):253. Comment on: Nat Med 1996 Dec;2(12):1382–5.

Less stress--more pressure? [letter; comment] Fishman RA. **Nat Med** 1997 Apr;3(4):366. Comment on: Nat Med 1996 Dec;2(12):1307–8. Comment on: Nat Med 1996 Dec;2(12):1382–5.

Permeability and residual plasma volume of human, Dutch variant, and rat amyloid beta-protein 1-40 at the blood-brain barrier [see comments] Poduslo JF, et al. **Neurobiol Dis** 1997;4(1):27–34. Comment in: Neurobiol Dis 1997 ;4(1):23–6.

Can blood-brain barrier play a role in the development of cerebral amyloidosis and Alzheimer's disease pathology [editorial; comment] Zlokovic B. **Neurobiol Dis** 1997; 4(1):23–6 (19 ref.). Comment on: Neurobiol Dis 1997 ;4(1):27–34.

Ability of nitrobenzylthioinosine to cross the blood-brain barrier in rats. Anderson CM, et al. **Neurosci Lett** 1996 Nov 29;219(3):191–4

Brain-derived peptides increase the expression of a blood-brain barrier GLUT1 glucose transporter reporter gene. Boado RJ. **Neurosci Lett** 1996 Dec 6;220(1):53–6

P-glycoprotein expression in capillary endothelial cells of the 7th and 8th nerves of guinea pig in relation to blood-nerve barrier sites. Saito T, et al. **Neurosci Lett** 1997 Aug 22;232(1):41–4

Transport of GM1 and GM1 inner ester across an in vitro model of the blood-brain barrier. Wells JM, et al. **Neurosci Lett** 1996 Oct 18;217(2-3):121–4

Cellular uptake and transport of methylprednisolone at the blood-brain barrier. Chen TC, et al. **Neurosurgery** 1996 Feb;38(2):348–54

Dark origins of the Patlak-Gjedde-Blasberg-Fenstermacher-Rutland -Rehling Plot [letter; comment] Gjedde A. **Nucl Med Commun** 1997 Mar;18(3):274–5. Comment on: Nucl Med Commun 1994 Sep;15(9):669–72. Comment on: Nucl Med Commun 1996 May;17(5):441.

Delivery of loperamide across the blood-brain barrier with polysorbate 80-coated polybutylcyanoacrylate nanoparticles. Alyautdin RN, et al. **Pharm Res** 1997 Mar; 14(3):325–8

Predicting blood-brain transport of drugs: a computational approach. Basak SC, et al. **Pharm Res** 1996 May; 13(5):775–8

Drug equilibration across the blood-brain barrier--pharmacokinetic considerations based on the microdialysis method. Hammarlund-Udenaes M, et al. **Pharm Res** 1997 Feb;14(2):128–34

Localization of purine metabolizing enzymes in bovine brain microvessel endothelial cells: an enzymatic blood-brain barrier for dideoxynucleosides? Johnson MD, et al. **Pharm Res** 1996 Dec;13(12):1881–6

Fluconazole distribution to the brain: a crossover study in freely-moving rats using in vivo microdialysis. Yang H, et al. **Pharm Res** 1996 Oct;13(10):1570–5

Deltorphin transport across the blood-brain barrier. Fiori A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):9469–74

Prednisolone concentrations in cerebrospinal fluid after oral prednisone. Preliminary data. Bannwarth B, et al. **Rev Rhum Engl Ed** 1997 May;64(5):301–4

Alterations in endothelial barrier permeability in multiple organs during overactivation of macrophages in rats. Deng X, et al. **Shock** 1996 Aug;6(2):126–33

Alterations of the blood-brain barrier and glial cells in white matter lesions in cerebrovascular and Alzheimer's disease patients [letter; comment] Leys D, et al. **Stroke** 1997 Apr; 28(4):874–6. Comment on: Stroke 1996 Nov;27(11):2069–74.

Alterations of the blood-brain barrier and glial cells in white-matter lesions in cerebrovascular and Alzheimer's disease patients [see comments] Tomimoto H, et al. **Stroke** 1996 Nov;27(11):2069–74. Comment in: Stroke 1997 Apr;28(4):874–6.

Aluminum citrate is transported from brain into blood via the monocarboxylic acid transporter located at the blood-brain barrier. Ackley DC, et al. **Toxicology** 1997 Jun 27;120(2):89–97

[Anatomy of cerebrospinal fluid system and blood-brain barrier] Amano T. **Nippon Naika Gakkai Zasshi** 1996 May 10;85(5):659–62 (6 ref.) **(Jpn)**

[The blood-brain barrier. II. Pathology: brain tumors, brain edema, hypertension, epilepsy] Sobaniec W, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):1009–19 (Eng. Abstr.) **(Pol)**

[Permeability of blood-brain barrier in newborn rats during hyperthermia-induced seizures] Gurina OI, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):146–9 **(Rus)**

[A comparative study of the permeability across the hemato-encephalic barrier and of the effect on cerebral blood flow of the new neurotropic agent calcium ketohomopantothenate and of pantogam] Nasybullina NM, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):58–61 (Eng. Abstr.) **(Rus)**

[Nerve tissue-specific proteins in the assessment of the permeability of the hemato-encephalic barrier in comatose states in children] Badalian LO, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(1):41–6 (Eng. Abstr.) **(Rus)**

[Significance of bromide levels in evaluation of the hemato-encephalic barrier during acute viral meningitis] Nikolić S, et al. **Srp Arh Celok Lek** 1996 Nov-Dec; 124(11-12):297–301 (Eng. Abstr.) **(Scc)**

[Hypercapnia induced reversible opening of the blood-brain barrier in experimental hyperbilirubinemia] Dominguez Ortega F, et al. **An Esp Pediatr** 1997 Apr;46(4):374–7 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Neurotoxicity of contrast media for magnetic resonance imaging after generalized breakdown of the blood-brain barrier. Evill CA, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S336–8

Chemotoxicity testing of nonionic radiographic contrast media against the blood-brain barrier. Wilson AJ, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S331–2

Enhancing effect of L-carnitine on some abnormal signs induced by pentylenetetrazol. Herink J. **Acta Medica (Hradec Kralove)** 1996;39(2):63–6

Neuroprotective efficacy of microvascularly-localized versus brain-penetrating antioxidants. Hall ED, et al. **Acta Neurochir Suppl (Wien)** 1996;66:107–13 (23 ref.)

BLOOD-BRAIN BARRIER

The development of the blood-brain barrier in alcohol-exposed rats. Phillips DE, et al. **Alcohol** 1997 Jul-Aug;14(4):333-43

Vascular endothelial growth factor affects permeability of brain microvessel endothelial cells in vitro. Wang W, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1973-80

Effects of nitric oxide on blood-brain barrier disruption caused by intracarotid injection of hyperosmolar mannitol in rats. Chi OZ, et al. **Anesth Analg** 1997 Feb;84(2):370-5

Modification of the blood-brain barrier permeability by vinorelbine: effect of intracarotid infusion compared with intravenous infusion. Mouchard-Delmas C, et al. **Anticancer Drugs** 1996 Feb;7(2):213-9

Age-related effects of interleukin-1 beta on polymorphonuclear neutrophil-dependent increases in blood-brain barrier permeability in rats. Anthony DC, et al. **Brain** 1997 Mar;120 (Pt 3):435-44

Microvascular leakage in mouse pial venules induced by bradykinin. Yong T, et al. **Brain Inj** 1996 May;10(5):385-93

Inhibition of nitric oxide synthase attenuates blood-brain barrier disruption during experimental meningitis. Boje KM. **Brain Res** 1996 May 13;720(1-2):75-83

Effects of barbiturates on hypoxic cultures of brain derived microvascular endothelial cells. Fischer S, et al. **Brain Res** 1996 Jan 22;707(1):47-53

Arginine vasopressin reduces the blood-brain transfer of L-tyrosine and L-valine: further evidence of the effect of the peptide on the L-system transporter at the blood-brain barrier. Reichel A, et al. **Brain Res** 1996 Mar 25; 713(1-2):232-9

Tumor necrosis factor-alpha-induced gelatinase B causes delayed opening of the blood-brain barrier: an expanded therapeutic window. Rosenberg GA, et al. **Brain Res** 1995 Dec 12;703(1-2):151-5

Pathway across blood-brain barrier opened by the bradykinin agonist, RMP-7. Sanovich E, et al. **Brain Res** 1995 Dec 24;705(1-2):125-35

Neurotoxicity, blood-brain barrier breakdown, demyelination and remyelination associated with NMDA-induced lesions of the rat lateral hypothalamus. Brace H, et al. **Brain Res Bull** 1997;43(5):447-55

Permeability at the blood-brain and blood-nerve barriers of the neurotrophic factors: NGF, CNTF, NT-3, BDNF. Poduslo JF, et al. **Brain Res Mol Brain Res** 1996 Mar; 36(2):280-6

Beneficial effects of S-adenosyl-L-methionine on blood-brain barrier breakdown and neuronal survival after transient cerebral ischemia in gerbils. Rao AM, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):134-8

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of either sodium borocaptate or boronophenylalanine with or without blood-brain barrier disruption. Barth RF, et al. **Cancer Res** 1997 Mar 15;57(6):1129-36

Osmotherapy. Basic concepts and controversies. Paczynski RP. **Crit Care Clin** 1997 Jan;13(1):105-29 (89 ref.)

Changes in transport of [14C] alpha-aminoisobutyric acid across the blood-brain barrier during pentylenetetrazol-induced status epilepticus in the immature rat. Padou V, et al. **Epilepsy Res** 1995 Nov; 22(3):175-83

Changes in the permeability of the blood-brain barrier following sodium dodecyl sulphate administration in the rat. Saija A, et al. **Exp Brain Res** 1997 Jul;115(3):546-51

Controlled modulation of BBB permeability using the bradykinin agonist, RMP-7. Bartus RT, et al. **Exp Neurol** 1996 Nov;142(1):14-28

Unlocking the blood-brain barrier: a role for RMP-7 in brain tumor therapy. Elliott PJ, et al. **Exp Neurol** 1996 Oct; 141(2):214-24

Chemical induction of fenestrae in vessels of the blood-brain barrier. Kaya M, et al. **Exp Neurol** 1996 Nov;142(1):6-13

Expression of blood-brain barrier characteristics following neuronal loss and astroglial damage after administration of anti-Thy-1 immunotoxin. Krum JM, et al. **Exp Neurol** 1997 Jul;146(1):33-45

Cadmium-induced alterations in blood-brain barrier permeability and its possible correlation with decreased microvessel antioxidant potential in rat. Shukla A, et al. **Hum Exp Toxicol** 1996 May;15(5):400-5

Permeability of the blood brain barrier by the bradykinin agonist, RMP-7: evidence for a sensitive, auto-regulated, receptor-mediated system. Bartus RT, et al. **Immunopharmacology** 1996 Jun;33(1-3):270-8

Dissociation of blood-brain barrier permeability and the hypotensive effects of the bradykinin B2 agonist, RMP-7. Elliott PJ, et al. **Immunopharmacology** 1996 Jun; 33(1-3):205-8

Polyamines induce blood-brain barrier disruption and edema formation in the rat. Glantz L, et al. **J Basic Clin Physiol Pharmacol** 1996;7(1):1-10

Modulation of blood-brain barrier permeability [editorial] Rapoport SI. **J Drug Target** 1996;3(6):417-25

Effects of tumor necrosis factor on receptor-mediated endocytosis and barrier functions of bovine brain capillary endothelial cell monolayers. Descamps L, et al. **J Neuroimmunol** 1997 Apr;74(1-2):173-84

High dose intravenous immunoglobulin does not improve abnormalities in the blood-brain barrier during acute relapse of multiple sclerosis [letter] Nos C, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):418

Changes in local microvascular permeability and in the effect of intervention with 21-aminosteroid (Tirilazad) in a new experimental model of focal cortical injury in the rat. Mathew P, et al. **J Neurotrauma** 1996 Aug;13(8):465-72

MK-801 limits neurovascular dysfunction during experimental allergic encephalomyelitis. Bolton C, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):397-402

Epinephrine increases the selective permeability of epidurally administered [3H]-D-mannitol and [14C]-carboxyl-inulin across the blood-spinal cord barrier. Naidu KA, et al. **J Spinal Cord Med** 1996 Jul;19(3):176-82

Pyridostigmine brain penetration under stress enhances neuronal excitability and induces early immediate transcriptional response [see comments] Friedman A, et al. **Nat Med** 1996 Dec;2(12):1382-5. Comment in: Nat Med 1996 Dec;2(12):1307-8. Comment in: Nat Med 1997 Mar;3(3):253. Comment in: Nat Med 1997 Apr;3(4):366.

Different response of cerebral and non-cerebral endothelial cells to cytotoxic hypoxia. Ahlemeyer B, et al. **Neurochem Int** 1997 Jul;31(1):39-44

Hypothalamic extract influences a blood-brain barrier model of porcine brain capillary endothelial cells. Guerin JL, et al. **Neurochem Res** 1997 Mar;22(3):321-6

Effect of tumor necrosis factor-alpha on the permeability of bovine brain microvessel endothelial cell monolayers. Anda T, et al. **Neurol Res** 1997 Aug;19(4):369-76

Intracarotid tumor necrosis factor-alpha administration increases the blood-brain barrier permeability in cerebral cortex of the newborn pig: quantitative aspects of double-labelling studies and confocal laser scanning analysis. Abraham CS, et al. **Neurosci Lett** 1996 Apr 19; 208(2):85-8

Acute 3-nitropropionic acid intoxication induces striatal astrocytic cell death and dysfunction of the blood-brain barrier: involvement of dopamine toxicity. Nishino H, et al. **Neurosci Res** 1997 Apr;27(4):343-55

Ultrastructural changes in the blood-brain barrier in rats after treatment with nimodipine and flunarizine. A comparison. Zumkeller M, et al. **Neurosurg Rev** 1996;19(4):253-60

Protective effects of ifenprodil on ischemic injury size, blood-brain barrier breakdown, and edema formation in focal cerebral ischemia. Başkaya MK, et al. **Neurosurgery** 1997 Feb;40(2):364-70; discussion 370-1

Enhanced tumor uptake of carboplatin and survival in glioma-bearing rats by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **Neurosurgery** 1996 Jul;39(1):125-33; discussion 133-4

Enhanced delivery of boronophenylalanine for neutron capture therapy by means of intracarotid injection and blood-brain barrier disruption. Yang W, et al. **Neurosurgery** 1996 May;38(5):985-92

Perinatal treatment of rats with opiates affects the development of the blood-brain barrier transport system PTS-1. Banks WA, et al. **Neurotoxicol Teratol** 1996 Nov-Dec;18(6):711-5

Effects of fumonisin B1 treatment on blood-brain barrier transfer in developing rats. Kwon OS, et al. **Neurotoxicol Teratol** 1997 Mar-Apr;19(2):151-5

A dynamic model of the blood-brain barrier "in vitro". Stanness KA, et al. **Neurotoxicology** 1996 Summer; 17(2):481-96

Characterization of the MDCK cell line for screening neurotoxicants. Veronesi B. **Neurotoxicology** 1996 Summer; 17(2):433-43

Transport of dopamine at the blood-brain barrier of the guinea pig: inhibition by psychotropic drugs and nicotine. Martel CL, et al. **Pharm Res** 1996 Feb;13(2):290-5

[The structure and permeability of the hemato-encephalic barrier and the prospects for drug delivery across it] Mishchenko VA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(4):116-20 (61 ref.) **(Rus)**

GENETICS

Molecular regulation of the blood-brain barrier GLUT1 glucose transporter by brain-derived peptides. Boado RJ. **J Neural Transm Suppl** 1996;47:275

IMMUNOLOGY

Differential distribution of an endothelial barrier antigen between the pial and cortical microvessels of the rat. Cassella JP, et al. **Brain Res** 1997 Jan 9;744(2):335-8

A model for monocyte migration through the blood-brain barrier during HIV-1 encephalitis. Persidsky Y, et al. **J Immunol** 1997 Apr 1;158(7):3499-510

Passage of cytokines across the blood-brain barrier. Banks WA, et al. **Neuroimmunomodulation** 1995 Jul-Aug; 2(4):241-8 (77 ref.)

PHYSIOLOGY

Blood-brain barrier water permeability and brain osmolyte content during edema development [see comments] Olson JE, et al. **Acad Emerg Med** 1997 Jul;4(7):662-73. Comment in: Acad Emerg Med 1997 Jul;4(7):652-3.

Magnetic resonance imaging observations of blood-brain-barrier permeability in an animal model of brain injury. Ford JC, et al. **Acad Radiol** 1997 Feb; 4(2):115-26

Blood-CSF barrier integrity in multiple sclerosis. Liebsch R, et al. **Acta Neurol Scand** 1996 Dec;94(6):404-10

Effect of transient focal ischemia on blood-brain barrier permeability in the rat: correlation to cell injury. Albayrak S, et al. **Acta Neuropathol (Berl)** 1997 Aug;94(2):158-63

Age-related changes in the brain transfer of blood-borne horseradish peroxidase in the hippocampus of senescence-accelerated mouse. Ueno M, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):233-40

Alterations in cerebral endothelial cell function in ischemia. Betz AL. **Adv Neurol** 1996;71:301-11; discussion 311-3

The development of the blood-brain barrier in alcohol-exposed rats. Phillips DE, et al. **Alcohol** 1997 Jul-Aug;14(4):333-43

17 beta-Estradiol modulation of glucose transporter 1 expression in blood-brain barrier. Shi J, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E1016-22

Intercellular barriers to and transcellular transfer of albumin in the fetal sheep brain. Balslev Y, et al. **Anat Embryol (Berl)** 1997 Mar;195(3):229-36

Sustained endothelial dependent dilation in pial arterioles after crosslinked hemoglobin transfusion. Ulatowski JA, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar;25(1-2):115-20

Modulation of cultured brain, adrenal, and aortic endothelial cell glucose transport. Gaposchkin CG, et al. **Biochim Biophys Acta** 1996 Dec 4;1285(2):255-66

Cerebrospinal fluid and plasma gamma-aminobutyric acid in Alzheimer's disease. Weiner MF, et al. **Biol Psychiatry** 1996 Nov 1;40(9):933-4

Neuron-specific enolase as an aid to outcome prediction in head injury. Ross SA, et al. **Br J Neurosurg** 1996 Oct; 10(5):471-6

Quantitative evaluation of blood-brain barrier permeability following middle cerebral artery occlusion in rats. Belayev L, et al. **Brain Res** 1996 Nov 11;739(1-2):88-96

Role of activation of bradykinin B2 receptors in disruption of the blood-brain barrier during acute hypertension. Mayhan WG. **Brain Res** 1996 Nov 4;738(2):337-41

Role of nitric oxide in histamine-induced increases in permeability of the blood-brain barrier. Mayhan WG. **Brain Res** 1996 Dec 16;743(1-2):70-6

Evidence for pore-like opening of the blood-brain barrier following forebrain ischemia in rats. Preston E, et al. **Brain Res** 1997 Jun 27;761(1):4-10

Identification of a saturable uptake system for deoxyribonucleosides at the blood-brain and blood-cerebrospinal fluid barriers. Thomas née Williams SA, et al. **Brain Res** 1996 Nov 25;741(1-2):230-9

Transcytosis of 6.6-nm gold-labeled transferrin: an ultrastructural study in cultured porcine blood-brain barrier endothelial cells. van Gelder W, et al. **Brain Res** 1997 Jan 23;746(1-2):105-16

Is the pial microvessel a good model for blood-brain barrier studies? Allt G, et al. **Brain Res Brain Res Rev** 1997 Jun; 24(1):67-76 (78 ref.)

Central nervous system complications of diabetes mellitus--a perspective from the blood-brain barrier. Mooradian AD. **Brain Res Brain Res Rev** 1997 Apr;23(3):210-8 (124 ref.)

Development of blood-brain barrier tight junctions in the rat cortex [published erratum appears in Brain Res Dev Brain Res 1997 Feb 20;98(2):296-7] Kniesel U, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1-2):229-40

Postnatal distribution of Glut1 glucose transporter and relative capillary density in blood-brain barrier structures and circumventricular organs during development. Zeller K, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):200-8

Regulation of phosphoinositide cycle by intracellular sodium in the blood-brain barrier. Catalán RE, et al. **Cell Signal** 1996 Aug;8(5):387-92

Molecular characteristics of pial microvessels of the rat optic nerve. Can pial microvessels be used as a model for the blood-brain barrier? Lawrenson JG, et al. **Cell Tissue Res** 1997 May;288(2):259-65

Agrin accumulates in the brain microvascular basal lamina during development of the blood-brain barrier. Barber AJ, et al. **Dev Dyn** 1997 Jan;208(1):62-74

Hydrogen-bonding. Part 36. Determination of blood brain distribution using octanol-water partition coefficients. Abraham MH, et al. **Drug Des Discov** 1995 Nov; 13(2):123-31

Blood-brain barrier permeability to morphine-6-glucuronide is markedly reduced compared with morphine. Wu D, et al. **Drug Metab Dispos** 1997 Jun;25(6):768-71

Impairment of the blood-CSF barrier in suicide attempters. Bayard-Burfield L, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):195-9

Transcytosis of protein through the mammalian cerebral epithelium and endothelium. III. Receptor-mediated transcytosis through the blood-brain barrier of blood-borne transferrin and antibody against the transferrin receptor. Broadwell RD, et al. **Exp Neurol** 1996 Nov; 142(1):47-65

A quantitative spatial analysis of the blood-spinal cord barrier. II. Permeability after intraspinal fetal transplantation. Horner PJ, et al. **Exp Neurol** 1996 Dec; 142(2):226-43

Morphological and immunophenotypic microglial changes in the denervated fascia dentata of adult rats: correlation with blood-brain barrier damage and astroglial reactions. Jensen MB, et al. **Exp Neurol** 1997 Jan;143(1):103-16

Blood-brain barrier permeability during the development of experimental bacterial meningitis in the rat. Kim KS, et al. **Exp Neurol** 1997 May;145(1):253-7

Effect of astroglial degeneration on neonatal blood-brain barrier marker expression. Krum JM. **Exp Neurol** 1996

Nov;142(1):29–35
A quantitative spatial analysis of the blood–spinal cord barrier. I. Permeability changes after experimental spinal contusion injury. Popovich PG, et al. **Exp Neurol** 1996 Dec;142(2):258–75
Permeability of the blood–brain barrier to protein and [3H]GABA in intraparenchymal fetal CNS tissue grafts. Rosenstein JM. **Exp Neurol** 1996 Nov;142(1):66–79
A quantitative immunocytochemical study of blood–brain barrier to endogenous albumin in cerebral cortex and hippocampus of senescence-accelerated mice (SAM). Vorbrodt AW, et al. **Folia Histochem Cytobiol** 1995; 33(4):229–37
Induction of various blood–brain barrier properties in non–neural endothelial cells by close apposition to co–cultured astrocytes. Hayashi Y, et al. **Glia** 1997 Jan; 19(1):13–26
Compromised blood–nerve barrier, astrogliosis, and myelin disruption in optic nerves during fatal murine cerebral malaria. Ma N, et al. **Glia** 1997 Feb;19(2):135–51
Influence of age on the passage of paraquat through the blood–brain barrier in rats: a distribution and pathological examination. Widdowson PS, et al. **Hum Exp Toxicol** 1996 Mar;15(3):231–6
Dietary goitrogen–induced changes in the transport of 2–deoxy–D–glucose and amino acids across the rat blood–brain barrier. Bala TS, et al. **Int J Dev Neurosci** 1996 Aug;14(5):575–83
Alterations in plasma free tryptophan and large neutral amino acids do not affect perceived exertion and prolactin during 90 min of treadmill exercise. Struder HK, et al. **Int J Sports Med** 1996 Feb;17(2):73–9
Human blood–brain barrier leptin receptor. Binding and endocytosis in isolated human brain microvessels. Golden PL, et al. **J Clin Invest** 1997 Jan 1;99(1):14–8
Computation of brain–blood partitioning of organic solutes via free energy calculations. Lombardo F, et al. **J Med Chem** 1996 Nov 22;39(24):4750–5
Hypoxia dramatically increases the nonspecific transport of blood–borne proteins to the brain. Plateel M, et al. **J Neurochem** 1997 Feb;68(2):874–7
MRI demonstration of reversible impairment of the blood–CNS barrier function in subacute combined degeneration of the spinal cord [letter] Küker W, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):298–9
Serum IgG to brain microvascular endothelial cells in multiple sclerosis. Trojano M, et al. **J Neurol Sci** 1996 Nov; 143(1–2):107–13
Characterization of the tumor invasion area in the rat intracerebral glioma. Ji Y, et al. **J Neurooncol** 1996 Dec; 30(3):189–97
Role of vascular endothelial growth factor in blood–brain barrier breakdown and angiogenesis in brain trauma. Nag S, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):912–21
Biochemical characteristics of a primary blood–brain barrier cell culture system as a function of the activity of the proteases used in tissue disaggregation. Ng KY, et al. **J Neurosci Methods** 1996 Sep;68(1):49–53
Effect of a serotonin agonist (sumatriptan) on the peptidergic innervation of the rat cerebral dura mater and on the expression of c–fos in the caudal trigeminal nucleus in an experimental migraine model. Knyihár–Csillik E, et al. **J Neurosci Res** 1997 Jun 1;48(5):449–64
Regeneration of neurosecretory axons into various types of intrahypothalamic graft is promoted by the absence of the blood–brain barrier: a neurophysin–immunohistochemical and horseradish peroxidase–histochemical study. Ouassat M, et al. **J Neurosci Res** 1997 Jan 15;47(2):173–85
On the partition of ampholytes: application to blood–brain distribution. Abraham MH, et al. **J Pharm Sci** 1997 Mar; 86(3):310–5
The functional role of P–glycoprotein in the blood–brain barrier. van Asperen J, et al. **J Pharm Sci** 1997 Aug; 86(8):881–4 (24 ref.)
Dysfunction of the blood–cerebrospinal fluid barrier in bacterial meningitis [letter] Dorta–Contreras A, et al. **J Trop Pediatr** 1996 Dec;42(6):372–3
Cultured vascular endothelial cells of the brain. Deli MA, et al. **Keio J Med** 1996 Sep;45(3):183–98; discussion 198–9 (212 ref.)
HIV–1 protein gp120 crosses the blood–brain barrier: role of adsorptive endocytosis. Banks WA, et al. **Life Sci** 1997; 61(9):PL119–25
The putative blood–brain barrier transporter for the beta–amyloid binding protein apolipoprotein j is saturated at physiological concentrations. Shayo M, et al. **Life Sci** 1997;60(7):PL115–8
Mechanisms of prion diseases described as long–lasting disorders of the blood–brain barrier system. Kurbel S, et al. **Med Hypotheses** 1995 Dec;45(6):543–4
Measurement of efflux rates from brain to blood. Banks WA, et al. **Methods Mol Biol** 1997;73:353–60
The Gulf War, stress and a leaky blood–brain barrier [news; comment] [see comments] Hanin I. **Nat Med** 1996 Dec; 2(12):1307–8. Comment on: Nat Med 1996 Dec;2(12):1382–5. Comment in: Nat Med 1997 Apr;3(4):366.
Astrocytic contributions to blood–brain barrier (BBB) formation by endothelial cells: a possible use of aortic endothelial cell for in vitro BBB model. Isobe I, et al. **Neurochem Int** 1996 May–Jun;28(5–6):523–33
Blood–endothelial cell and blood–brain transport of L–proline, alpha–aminoisobutyric acid, and L–alanine. Benrabh H, et al. **Neurochem Res** 1996 Oct;21(10):1227–35
Changes in blood–brain barrier nutrient transport in the offspring of iodine–deficient rats and their preventability. Sunitha Y, et al. **Neurochem Res** 1997 Jul;22(7):785–90
Cerebral calcium fluxes and calcium homeostasis in the rat: a minimal model. Ghosh S, et al. **Neurol Res** 1997 Aug; 19(4):403–8
Understanding the blood–brain–barrier. Schulze C. **Neuropathol Appl Neurobiol** 1997 Apr;23(2):150–1
A non–invasive transport system for GDNF across the blood–brain barrier. Albeck DS, et al. **Neuroreport** 1997 Jul 7;8(9–10):2293–8
Scopolamine–induced deficits in a two–trial object recognition task in mice. Dodart JC, et al. **Neuroreport** 1997 Mar 24;8(5):1173–8
Evidence of blood–brain barrier permeability/leakage for circulating human Alzheimer's beta–amyloid–(1–42)–peptide. Pluta R, et al. **Neuroreport** 1996 May 17;7(7):1261–5
Reversible association of the cytokines MIP–1 alpha and MIP–1 beta with the endothelia of the blood–brain barrier. Banks WA, et al. **Neurosci Lett** 1996 Mar 1;205(3):202–6
The biphasic opening of the blood–brain barrier in the cortex and hippocampus after traumatic brain injury in rats. Başkaya MK, et al. **Neurosci Lett** 1997 Apr 18;226(1):33–6
Glutamate is transported across the rat blood–brain barrier by a sodium–independent system. Benrabh H, et al. **Neurosci Lett** 1996 May 24;210(1):9–12
Developing brain cells produce factors capable of inducing the HT7 antigen, a blood–brain barrier–specific molecule, in chick endothelial cells. Ikeda E, et al. **Neurosci Lett** 1996 May 17;209(3):149–52
Enhanced delivery of [125I]glial cell line–derived neurotrophic factor to the rat CNS following osmotic blood–brain barrier modification. Jiao S, et al. **Neurosci Lett** 1996 Dec 20;220(3):187–90
Astroglial cells inhibit the increasing permeability of brain endothelial cell monolayer following hypoxia/reoxygenation. Kondo T, et al. **Neurosci Lett** 1996 Apr 19;208(2):101–4
Chloroquine administration in mice increases beta–amyloid immunoreactivity and attenuates kainate–induced blood–brain barrier dysfunction. Mielke JG, et al. **Neurosci Lett** 1997 May 23;227(3):169–72
Arachidonate transport through the blood–retina and blood–brain barrier of the rat during aging. Strosznajder J, et al. **Neurosci Lett** 1996 May 17;209(3):145–8
A C–terminal cyclic 8–13 neurotensin fragment analog appears less exposed to neprilysin when it crosses the blood–brain barrier than the cerebrospinal fluid–brain barrier in mice. Van Kemmel FM, et al. **Neurosci Lett** 1996 Oct 11;217(1):58–60
Blood–brain barrier permeability in astrocyte–free regions of the central nervous system remyelinated by Schwann cells. Felts PA, et al. **Neuroscience** 1996 Nov;75(2):643–55
Triple immunosuppression protects murine intracerebral, hippocampal xenografts in adult rat hosts: effects on cellular infiltration, major histocompatibility complex antigen induction and blood–brain barrier leakage. Pedersen EB, et al. **Neuroscience** 1997 Jun;78(3):685–701
Pericytosis and edema generation: a unique clinicopathological variant of meningioma. Robinson JC, et al. **Neurosurgery** 1996 Oct;39(4):700–6; discussion 706–7
Novel technetium ligands with affinity for the muscarinic cholinergic receptor. Lever SZ, et al. **Nucl Med Biol** 1994 Feb;21(2):157–64
Blood–to–brain transfer of various oxicams: effects of plasma binding on their brain delivery. Jolliet P, et al. **Pharm Res** 1997 May;14(5):650–6
The blood–brain barrier in neuroinflammatory diseases. de Vries HE, et al. **Pharmacol Rev** 1997 Jun;49(2):143–55 (154 ref.)
Transport of an antihypoxic drug stobadine across the blood–brain barrier in rat striatum and its influence on catecholamine–oxidative current: a voltammetric study under normal and anoxic/ischaemic conditions. Pavlásek J, et al. **Physiol Res** 1996;45(3):193–204
Endothelial cells of the brain and other organ systems: some similarities and differences. Joó F. **Prog Neurobiol** 1996 Feb;48(3):255–73 (210 ref.)
Pathophysiology of the blood–brain barrier. Selmaj K. **Springer Semin Immunopathol** 1996;18(1):57–73 (107 ref.)
Regulation of brain capillary endothelial thrombomodulin mRNA expression. Tran ND, et al. **Stroke** 1996 Dec; 27(12):2304–10; discussion 2310–1
Reversibility in blood–brain barrier, microcirculation, and histology in rat brain after decompression. Nohara A, et al. **Undersea Hyperb Med** 1997;24(1):15–21
[The blood–brain barrier. I. Histology. Physiology. Embryology. Transport] Lewczuk P, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):839–50 (Eng. Abstr.) **(Pol)**
[Transport of the hexapeptide dalargin across the hemato–encephalic barrier into the brain using polymer nanoparticles] Aliautdin RN, et al. **Eksp Klin Farmakol** 1996 May–Jun;59(3):57–60 (Eng. Abstr.) **(Rus)**
[The structure and permeability of the hemato–encephalic barrier and the prospects for drug delivery across it] Mishchenko VA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(4):116–20 (61 ref.) **(Rus)**

RADIATION EFFECTS

Effect of brain irradiation on blood–CSF barrier permeability of chemotherapeutic agents. Qin D, et al. **Am J Clin Oncol** 1997 Jun;20(3):263–5
Sequential changes in cerebral blood flow, early neuropathological consequences and blood–brain barrier disruption following radiofrequency–induced localized hyperthermia in the rat. Ohmoto Y, et al. **Int J Hyperthermia** 1996 May–Jun;12(3):321–34

BLOOD CELL COUNT

The complete blood count and reticulocyte count--are they necessary in the evaluation of acute vasoocclusive sickle–cell crisis? Lopez BL, et al. **Acad Emerg Med** 1996 Aug;3(8):751–7
Haematological variables in prostatic carcinoma patients. Geenen RW, et al. **Acta Urol Belg** 1996 Sep;64(3):21–6
Diurnal change of blood count analytes in normal subjects. Jones AR, et al. **Am J Clin Pathol** 1996 Dec;106(6):723–7
Quantitation of circulating hematopoietic progenitor cells early after transplantation. Gebauer W, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:165–9
Frequency of fetal cells in sorted subpopulations of nucleated erythroid and CD34+ hematopoietic progenitor cells from maternal peripheral blood. Little MT, et al. **Blood** 1997 Apr 1;89(7):2347–58
The absolute number of circulating CD34+ cells predicts the number of hematopoietic stem cells that can be collected by apheresis. Schots R, et al. **Bone Marrow Transplant** 1996 Apr;17(4):509–15
Haematological reference ranges for schoolchildren. Taylor MR, et al. **Clin Lab Haematol** 1997 Mar;19(1):1–15
CFU–GM are not increased in peripheral blood of patients with chronic lymphocytic leukaemia [letter; comment] Scalzulli PR, et al. **Eur J Haematol** 1996 Aug;57(2):180–1 . Comment on: Eur J Haematol 1995 Apr;54(4):235–40.
When to perform peripheral blood progenitor cell collection in hematological patients? [letter] D'Arena G, et al. **Haematologica** 1997 Jan–Feb;82(1):124–5
Scurvy presenting with cutaneous and articular signs and decrease in red and white blood cells. Yalçin A, et al. **Int J Dermatol** 1996 Dec;35(12):879–81
Laboratory reference values for the 70 year olds. Hammerman–Rozenberg R, et al. **Isr J Med Sci** 1996 Aug; 32(8):611–20
Biologic rhythms in hematology. Haus E. **Pathol Biol (Paris)** 1996 Sep;44(7):618–30 (113 ref.)
The influence of the full blood count on medical inpatient management. King MS, et al. **S Afr Med J** 1997 Jun; 87(6):738–41
Reference limits for routine haematological measurements in 7–14–year–old children living at an intermediate altitude (1869 m, Erzurum, Turkey). Akdağ R, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):103–9
Blood counts in healthy donors 1 year after the collection of granulocyte–colony–stimulating factor–mobilized progenitor cells and the results of a second mobilization and collection. Stroncek DF, et al. **Transfusion** 1997 Mar; 37(3):304–8
[Blood cell count and diagnostic orientation of imported malaria in France (letter)] Carme B, et al. **Presse Med** 1996 Oct 26;25(32):1562 **(Fre)**
[General hematological tests--factors responsible for errors in sampling for general hematological tests and their prevention] Kuwajima M. **Rinsho Byori** 1996 Nov;Suppl 103:115–22 **(Jpn)**
[General hematological tests. B. Evaluation of basophilic fractions by using Hemogard Plus] Ohtani H, et al. **Rinsho Byori** 1996 Nov;Suppl 103:129–33 **(Jpn)**
[Hematological serological valves, and organ weight in adult Sprague–Dawley rats] Uribe M, et al. **Rev Med Chil** 1995 Oct;123(10):1235–42 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Effects of ammonia and nitrate concentration on hematologic and serum biochemical profiles of hybrid striped bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al. **Am J Vet Res** 1997 Feb;58(2):131–5
Hematologic, hemostatic, and biochemical effects in dogs receiving an oral chondroprotective agent for thirty days. McNamara PS, et al. **Am J Vet Res** 1996 Sep;57(9):1390–4
Predictive factors affecting mobilization and peripheral blood stem cell (PBSC) collection using single apheresis (SA) for rescuing patients after high–dose chemotherapy (HD.CHE) in various malignancies. Koumakis G, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1065–72
Analysis of apheresis content of progenitor cell collections from normal donors to whom granulocyte–colony–stimulating factor is administered. Weinthal JA, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):943–7
[Predictive value of the hemogram for myelotoxicity induced by the association of carboplatin–fluorouracil on the 4th day of the therapeutic regimen] Cappelaere P, et al. **Bull Cancer** 1996 Jul;83(7):559–65 (36 ref.) (Eng. Abstr.) **(Fre)**

INSTRUMENTATION

Clinical evaluation of the Cell–Dyn 1700CS blood counter. Petani S, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):1085–8

Pseudobasophilia on the Technicon automated cell counters [letter; comment] Bizzaro N. **Clin Lab Haematol** 1996 Dec; 18(4):298–9. Comment on: Clin Lab Haematol 1996 Mar;18(1):35–8.

Evaluating the CELL-DYN 3500 haematology analyser in an acute general hospital. Chow EY, et al. **Clin Lab Haematol** 1996 Sep;18(3):187–93

Basophil counts on the technicon H*1 automated counter [see comments] Davies S, et al. **Clin Lab Haematol** 1996 Mar;18(1):35–8. Comment in: Clin Lab Haematol 1996 Dec;18(4):298–9.

An evaluation of the CELL-DYN 1700 haematology analyser: automated cell counting and three-part leucocyte differentiation. Sachse C, et al. **Clin Lab Haematol** 1996 Sep;18(3):171–80

A data management software for the Sysmex NE 8000 haematology analyser. Cambus JP, et al. **Comput Biol Med** 1996 Jul;26(4):355–9

Processing haematological data on a network environment. Ag Z, et al. **Malays J Pathol** 1995 Dec;17(2):77–81

[Discrepancy of platelet numbers between automated blood cell analysis and manual counting in the patients with thrombocytopenia] Koh T, et al. **Rinsho Byori** 1996 Sep; 44(9):889–94 (Eng. Abstr.) **(Jpn)**

[Difference of blood cell counts with reference blood cell counters in different makers: Part II] Watanabe K, et al. **Rinsho Byori** 1997 Feb;45(2):185–9 (Eng. Abstr.) **(Jpn)**

[Evaluation of the Cell-DYN 35)] Costa MJ, et al. **Acta Med Port** 1996 Oct-Dec;9(10–12):309–18 (Eng. Abstr.) **(Por)**

[The use of hematological analyzers in the clinic] Laaser HF. **Klin Lab Diagn** 1997 Feb;(2):45–6 **(Rus)**

[Hematology Standardization Committee. Recommendations of the International Council for Standardization in Hematology (ICSH) for the evaluation of hematologic autoanalyzers] Besson I, et al. **Sangre (Barc)** 1996 Jun; 41(3):253–8 **(Spa)**

[Use of the Sysmex NE1500 counter for the detection of hemoglobinopathies (letter)] Rabasa MP, et al. **Sangre (Barc)** 1996 Oct;41(5):401–3 **(Spa)**

METHODS

External quality assurance for CD34 cell enumeration—results of a preliminary national trial. Royal Microscopical Society Clinical Flow Cytometry Group QA Schemes. Lowdell MW, et al. **Bone Marrow Transplant** 1996 May;17(5):849–53

The impact of an integrated haematology screening system on laboratory practice. Macdonald AJ, et al. **Clin Lab Haematol** 1996 Dec;18(4):271–6

Uniformity of anticoagulation for full blood counting [letter] O'Broin S, et al. **Clin Lab Haematol** 1997 Jun;19(2):159–60

Processing haematological data on a network environment. Ag Z, et al. **Malays J Pathol** 1995 Dec;17(2):77–81

Microdroplet fluorochromatic assay for the enumeration of white cells (WBCs) in WBC-reduced blood components: validation and application for evaluating newly developed WBC-reduction filters. Borzini P, et al. **Transfusion** 1997 Jun;37(6):601–6

RADIATION EFFECTS

Haematologic toxicity during craniospinal irradiation—the impact of prior chemotherapy [letter] Plowman PN. **Med Pediatr Oncol** 1997 Mar;28(3):238–9

BLOOD CELL COUNT, RED see **ERYTHROCYTE COUNT**

BLOOD CELL COUNT, WHITE see **LEUKOCYTE COUNT**

BLOOD CELL NUMBER see **BLOOD CELL COUNT**

BLOOD CELLS

Diffuse large cell lymphoma of B-cell type associated with reactive hemophagocytosis. Aung W, et al. **Ann Clin Lab Sci** 1996 Sep-Oct;26(5):433–6

Red blood cell phenotypes in the alpha + thalassaemias from early childhood to maturity. Williams TN, et al. **Br J Haematol** 1996 Nov;95(2):266–72

Improved priming for mobilization of and optimal timing for harvest of peripheral blood stem cells. Knudsen LM, et al. **J Hematother** 1996 Aug;5(4):399–406

Effects of repeated hyperthermal stress on blood cells in vivo. Kubota K, et al. **J Med** 1997;28(1–2):55–61

Clues to leukemia and blood cell origins revealed [news] **Oncology (Huntingt)** 1996 Jun;10(6):959

Blood, bone marrow and splenic lymphocyte subset profiles in Indian visceral leishmaniasis. Rohtagi A, et al. **Trans R Soc Trop Med Hyg** 1996 Jul-Aug;90(4):431–4

[The selections, selectin ligands and hemopoitic system] Miyakasa M. **Rinsho Ketsueki** 1996 Jun;37(6):502–5 (0 ref.) **(Jpn)**

CHEMISTRY

Pathophysiologic implications of membrane phospholipid asymmetry in blood cells. Zwaal RF, et al. **Blood** 1997 Feb 15;89(4):1121–32 (196 ref.)

Quantitation of hemopoietic cell antigens in flow cytometry. Poncelet P, et al. **Eur J Histochem** 1996;40 Suppl 1:15–32 (120 ref.)

Ex vivo cytokine release from whole blood. A routine method for health effect screening. Schins RP, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):494–6

Role of blood components in ocular silicone oil emulsification. Studies on an in vitro model. Savion N, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2694–9

Lactic acid is the factor in blood cell extracts which enhances the ability of CMP-NANA to sialylate gonococcal lipopolysaccharide and induce serum resistance. Parsons NJ, et al. **Microb Pathog** 1996 Feb;20(2):87–100

CYTOLOGY

Peripheral blood mobilization of hematopoietic stem cells: cytokine-mediated regulation of adhesive interactions within the hematopoietic microenvironment. Santucci MA, et al. **Acta Haematol** 1997;97(1–2):90–6 (52 ref.)

Ex vivo expansion of CD34+ peripheral blood progenitor cells: implications for the expansion of contaminating epithelial tumor cells. Vogel W, et al. **Blood** 1996 Oct 1; 88(7):2707–13

Changes in blood and spleen lymphocyte populations following antigen challenge in immature male chickens. Trout JM, et al. **Br Poult Sci** 1996 Sep;37(4):819–27

Two-layer buoyant density centrifugation gradient for enrichment of prostate-derived cells and cell clusters from peripheral blood [letter] Brandt B, et al. **Clin Chem** 1996 Nov;42(11):1881–2

Regulation of hematopoietic cell proliferation and differentiation by the myb oncogene family of transcription factors. Golay J, et al. **Int J Clin Lab Res** 1996;26(1):24–32 (95 ref.)

Autotransfusion after total knee arthroplasty. Effects on blood cells, plasma chemistry, and whole blood rheology. Dalén T, et al. **J Arthroplasty** 1997 Aug;12(5):517–25

The effects of Flk-2/flt3 ligand as compared with c-kit ligand on short-term and long-term proliferation of CD34+ hematopoietic progenitors elicited from human fetal liver, umbilical cord blood, bone marrow, and mobilized peripheral blood. Shapiro F, et al. **J Hematother** 1996 Dec;5(6):655–62

A high-speed gated baseline restorer and its implementation in a blood cell volume analyser. Abel EW, et al. **Med Eng Phys** 1997 Apr;19(3):267–72

Effects of uncontrollable and controllable electric shocks on T lymphocyte subpopulations in the peripheral blood, spleen, and thymus of rats. Nakata A, et al. **Neuroimmunomodulation** 1996 Nov-Dec;3(6):336–41

An internal laboratory evaluation of peripheral blood film abnormalities not detected by an automated blood cell counter (Coulter STKS). Hogan J, et al. **Pathology** 1996 Aug;28(3):287

Histological changes in rat embryonic blood cells as a possible mechanism for ventricular septal defects produced by an N-phenylimide herbicide. Kawamura S, et al. **Teratology** 1996 Nov;54(5):237–44

Automated blood component collection with the MCS 3p cell separator: evaluation of three protocols for buffy coat-poor and white cell-reduced packed red cells and plasma. Zeiler TA, et al. **Transfusion** 1997 Aug;37(8):791–7

DRUG EFFECTS

Osteogenic growth peptide increases blood and bone marrow cellularity and enhances engraftment of bone marrow transplants in mice. Gurevitch O, et al. **Blood** 1996 Dec 15;88(12):4719–24

Successful mobilisation of blood stem cells following previous autologous bone marrow transplantation [letter] McQuaker IG, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):263–4

Comparison of natural killer activity of human bone marrow and blood cells in cultures containing IL-2, IL-7 and IL-12. Wong EK, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):63–71

MTX-block during S-phase in BrdU-treated cells depends on species and medium used. Di Meo GP, et al. **Hereditas** 1996;124(3):233–6

The inhibitory effect of pentamidine on the production of chemotactic cytokines by in vitro stimulated human blood cells. Van Wauwe J, et al. **Inflamm Res** 1996 Jul; 45(7):357–63

Verification of exposure to sulfur mustard in two casualties of the Iran-Iraq conflict. Benschop HP, et al. **J Anal Toxicol** 1997 Jul-Aug;21(4):249–51

Effect of topically applied sulphur mustard on antioxidant enzymes in blood cells and body tissues of rats. Husain K, et al. **J Appl Toxicol** 1996 May-Jun;16(3):245–8

Oral vanadyl sulphate does not affect blood cells, viscosity or biochemistry in humans. Fawcett JP, et al. **Pharmacol Toxicol** 1997 Apr;80(4):202–6

[Contribution of in vitro models to the management of hematologic risk in pharmacovigilance] Carlhant D, et al. **Therapie** 1996 Sep-Oct;51(5):489–99 (Eng. Abstr.) **(Fre)**

[Advantages and limitations of intraoperative mechanical autotransfusion in al prostatectomies] Jacobi K, et al. **Anaesthesist** 1997 Feb;46(2):101–7 (Eng. Abstr.) **(Ger)**

[Effectiveness and hematotoxicity of paclitaxel monotherapy in patients with advanced non-small cell bronchial carcinoma (NSCLC)] Leutz M, et al. **Pneumologie** 1997 Jan;51(1):62–5 (Eng. Abstr.) **(Ger)**

[Indometofen causes biochemical changes in the blood cells characteristic for a radioresistant state of the body] Mazurik VK, et al. **Radiats Biol Radioecol** 1997 Mar-Apr; 37(2):165–74 (Eng. Abstr.) **(Rus)**

[Effect of a novel combined enterosorbent "Ultrasorb" on biochemical and morphologic blood parameters] Stavitskaia SS, et al. **Ukr Biokhim Zh** 1996 Jul-Aug; 68(4):95–100 (Eng. Abstr.) **(Rus)**

[Changes in the blood morphofunctional characteristics of cyprinid fishes in ammonia poisoning] Hrubinko VV, et al. **Fiziol Zh** 1996;42(1–2):40–6 (Eng. Abstr.) **(Ukr)**

ENZYMOLOGY

Effect of topically applied sulphur mustard on antioxidant enzymes in blood cells and body tissues of rats. Husain K, et al. **J Appl Toxicol** 1996 May-Jun;16(3):245–8

IMMUNOLOGY

A cell proliferation-dependent multiprotein complex NC-3A positively regulates the CD34 promoter via a TCATTT-containing element. Perrotti D, et al. **Blood** 1996 Nov 1;88(9):3336–48

Increased in vitro interleukin-12 production by peripheral blood in high-risk IDDM first degree relatives. Szelachowska M, et al. **Horm Metab Res** 1997 Apr; 29(4):168–71

Cytokine expression by human peripheral blood dendritic cells stimulated in vitro with HIV-1 and herpes simplex virus. Ghanekar S, et al. **J Immunol** 1996 Nov 1; 157(9):4028–36

Synthesis of anti-acetylcholine receptor antibodies by CD5-B cells from peripheral blood of myasthenia gravis patients. Heidenreich F, et al. **J Neurol** 1996 Jan;243(1):57–62

Prolonged survival of rat hepatic allografts pretreated with a single donor-specific blood transfusion: the distribution of donor cells expressing class I major histocompatibility complex antigens in the recipient. Yamaguchi Y, et al. **J Surg Res** 1996 Feb 15;61(1):23–9

Coxsackievirus B3-induced chronic myocarditis in mouse: use of whole blood culture to study the activation of TNF alpha-producing cells. Hober D, et al. **Microbiol Immunol** 1996;40(11):837–45

Comparison of two blood cell separators in collecting peripheral blood stem cell components. Stroncek DF, et al. **Transfus Med** 1997 Jun;7(2):95–9

Quantification of CD34+ cells: comparison of methods. Fritsch G, et al. **Transfusion** 1997 Aug;37(8):775–84

Blood cell markers. Grindem CB. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1043–64 (64 ref.)

METABOLISM

Circulating leukocytes with ingested mucin in a child with Hirschsprung's disease [letter] Yu PH, et al. **Am J Hematol** 1996 Jul;52(3):240

Tissue differences in fragile X mosaics: mosaicism in blood cells may differ greatly from skin. Dobkin CS, et al. **Am J Med Genet** 1996 Aug 9;64(2):296–301

Polymorphonuclear leukocytes L-selectin expression decreases as they age in circulation. Van Eeden SF, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H401–8

Vastatins inhibit tissue factor in cultured human macrophages. A novel mechanism of protection against atherothrombosis. Colli S, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):265–72

Preparation of a monoclonal antibody specific for 5-methyl-2'-deoxycytidine and its application for the detection of DNA methylation levels in human peripheral blood cells. Mizugaki M, et al. **Biol Pharm Bull** 1996 Dec; 19(12):1537–40

Interleukin-12 (IL-12) production in whole blood cultures from human immunodeficiency virus-infected individuals studied in relation to IL-10 and prostaglandin E2 production. Meyaard L, et al. **Blood** 1997 Jan 15; 89(2):570–6

Quantitative analysis of ferrochelatase mRNA in blood cells of erythropoietic protoporphyria patients. Takamiyagi A, et al. **J Dermatol Sci** 1996 Feb;11(2):154–60

Characterization of expression, cytokine regulation, and effector function of the high affinity IgG receptor Fc gamma RI (CD64) expressed on human blood dendritic cells. Fanger NA, et al. **J Immunol** 1997 Apr 1; 158(7):3090–8

Determination of interferon-alpha-producing capacity in whole blood cultures from patients with various diseases and from healthy persons. Uno K, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):911–8

Differential effects of gastrin-releasing peptide, neuropeptide Y, somatostatin and vasoactive intestinal peptide on interleukin-1 beta, interleukin-6 and tumor necrosis factor-alpha production by whole blood cells from healthy young and old subjects. Hernanz A, et al. **J Neuroimmunol** 1996 Dec;71(1–2):25–30

L-tyrosine and nicotine induce synthesis of L-Dopa and norepinephrine in human lymphocytes. Musso NR, et al. **J Neuroimmunol** 1997 Apr;74(1–2):117–20

Increased perforin expression in multiple sclerosis patients during exacerbation of disease in peripheral blood lymphocytes. Rubeša G, et al. **J Neuroimmunol** 1997 Apr; 74(1–2):198–204

Expression of heat shock protein on lymphocytes in peripheral blood and synovial fluid from patients with

rheumatoid arthritis. Sato H, et al. **J Rheumatol** 1996 Dec; 23(12):2027–32

Complications and difficulties in radiolabelling blood cells: a review. Sampson CB. **Nucl Med Commun** 1996 Aug; 17(8):648–58 (66 ref.)

Characterization, expression and chromosomal localization of a human gene homologous to the mouse Lsc oncogene, with strongest expression in hematopoetic tissues. Aasheim HC, et al. **Oncogene** 1997 Apr 10;14(14):1747–52

Interferon gamma production in whole peripheral blood culture in acute hepatitis B. Osna N, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):145–50

[Effect of macrolides on cytokine mRNA expression in human whole blood model] Arikawa K, et al. **Kansenshogaku Zasshi** 1996 Jul;70(7):696–701 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Current status of microbial contamination of blood components: summary of a conference. Klein HG, et al. **Transfusion** 1997 Jan;37(1):95–101

PATHOLOGY

Calpromotin, a cytoplasmic protein, is associated with the formation of dense cells in sickle cell anemia. Moore RB, et al. **Am J Hematol** 1997 Oct;56(2):100–6

Generation of tumor-specific cytolytic T lymphocytes from peripheral blood of cervical cancer patients by in vitro stimulation with a synthetic human papillomavirus type 16 E7 epitope. Alexander M, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1586–93

The importance of the peripheral blood film in systemic amyloidosis. Hawkins C, et al. **Clin Lab Haematol** 1996 Sep;18(3):219–20

Morphological features following G-CSF treatment. Azzarà A, et al. **Haematologica** 1997 Jul–Aug;82(4):504–5

Improvement of peripheral blood lymphocyte subsets in primary biliary cirrhosis after ursodeoxycholic acid therapy. Ikeda T, et al. **J Gastroenterol Hepatol** 1996 Apr; 11(4):366–72

Classical morphology, esterase cytochemistry, and interphase cytogenetics of peripheral blood and bone marrow smears. Jacobsson B, et al. **J Histochem Cytochem** 1996 Nov; 44(11):1303–9

Cellular content and permeability of intraluminal thrombus in abdominal aortic aneurysm. Adolph R, et al. **J Vasc Surg** 1997 May;25(5):916–26

Dialysis membrane biocompatibility: effects on cellular elements. Coli L, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:27–32

Detection of circulating thyroid cells in peripheral blood. Ditkoff BA, et al. **Surgery** 1996 Dec;120(6):959–64; discussion 964–5

In vitro measurements of inertial cavitation thresholds in human blood. Deng CX, et al. **Ultrasound Med Biol** 1996; 22(7):939–48

Blood cell markers. Grindem CB. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1043–64 (64 ref.)

PHYSIOLOGY

Laser-Doppler measurements of concentration and velocity of moving blood cells in rat cerebral circulation. Barfod C, et al. **Acta Physiol Scand** 1997 Jun;160(2):123–32

Apoptosis in circulating PMN: increased susceptibility in L-selectin-deficient PMN. Matsuba KT, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2852–8

Polymorphonuclear leukocytes L-selectin expression decreases as they age in circulation. Van Eeden SF, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H401–8

Acute exposure to 50 Hz magnetic field does not affect hematologic or immunologic functions in healthy young men: a circadian study. Selmaoui B, et al. **Bioelectromagnetics** 1996;17(5):364–72

Persistence of residual tumour cells after cytokine-mediated ex vivo expansion of mobilized CD34+ blood cells in multiple myeloma. Van Riet I, et al. **Br J Haematol** 1997 Feb;96(2):403–11

Apoptosis in hematopoietic cells is associated with an extensive decrease in cellular phosphotyrosine content that can be inhibited by the tyrosine phosphatase antagonist pervanadate. Lund-Johansen F, et al. **Cytometry** 1996 Oct 1;25(2):182–90

Cells and the activation of factor VII. Rao LV, et al. **Haemostasis** 1996;26 Suppl 1:1–5 (20 ref.)

Peripheral blood neutrophil rheology measured by micropore filtration reflects Behçet's disease activity well. Iijima S, et al. **J Dermatol Sci** 1997 May;15(1):44–50

Differential antibiotic-induced endotoxin release and interleukin-6 production by human umbilical vein endothelial cells (HUVECs): amplification of the response by coincubation of HUVECs and blood cells. Arditi M, et al. **J Infect Dis** 1997 May;175(5):1255–8

Elimination of blood-derived macrophages inhibits the release of interleukin-1 and the entry of leukocytes into the cerebrospinal fluid in experimental pneumococcal meningitis. Zysk G, et al. **J Neuroimmunol** 1997 Mar; 73(1–2):77–80

Effect of high-dose intravenous immunoglobulin on serum chemistry, hematology, and lymphocyte subpopulations: assessments based on controlled treatment trials in patients with neurological diseases. Koffman BM, et al. **Muscle Nerve** 1997 Sep;20(9):1102–7

Biologic rhythms in hematology. Haus E. **Pathol Biol (Paris)** 1996 Sep;44(7):618–30 (113 ref.)

Blood contact activation: pathophysiological effects and therapeutic approaches. Hornick P, et al. **Perfusion** 1996 Jan;11(1):3–19 (143 ref.)

Detection of apoptosis in peripheral blood cells of 31 subjects affected by Down syndrome before and after zinc therapy. Antonucci A, et al. **Ultrastruct Pathol** 1997 Sep–Oct; 21(5):449–52

[Cytokine expression and hematopoietic recovery after transplantation] Hirayama Y, et al. **Rinsho Ketsueki** 1997 Jun;38(6):469–71 **(Jpn)**

[Drifting cascade-like slowly developing adaptation mechanism during action of extreme factors on the body] Shakhov VP. **Biull Eksp Biol Med** 1996 May;121(5):571–4 **(Rus)**

[The role of glycosaminoglycans and proteoglycans in hemopoiesis and the physiological functions of the blood cells] Kharchenko MF, et al. **Fiziol Zh Im I M Sechenova** 1996 May–Jun;82(5–6):18–25 (40 ref.) (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Guidelines on gamma irradiation of blood components for the prevention of transfusion-associated graft-versus-host disease. BCSH Blood Transfusion Task Force [see comments] **Transfus Med** 1996 Sep;6(3):261–71. Comment in: Transfus Med 1997 Jun;7(2):172–3.

The irradiation of blood and blood components to prevent graft-versus-host disease: technical issues and guidelines. Moroff G, et al. **Transfus Med Rev** 1997 Jan;11(1):15–26 (59 ref.)

[Effect of suppressing oxidative metabolism in cells by pulsed irradiation from an He-Ne-laser depends on the duration of the dark period between pulses] Karu TI, et al. **Dokl Akad Nauk** 1997 Apr;353(5):676–8 **(Rus)**

[Changes in the content of ribonucleic acid in the blood cells and plasma compared to the hematological indicators of a radiation-induced lesion in rats] Mišúrová E, et al. **Radiats Biol Radioecol** 1997 Mar–Apr;37(2):148–53 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

A new approach to labeling cells with technetium-99m, Part I. Preparation of modified polylysine and in vitro cell labeling. Mahmood A, et al. **Nucl Med Biol** 1996 Jan; 23(1):79–85

The effect of cyclosporine-A on labeling blood cells with radiopharmaceuticals. Owunwanne A, et al. **Nucl Med Biol** 1996 Nov;23(8):1019–21

TRANSPLANTATION

The biology and clinical uses of blood stem cells. To LB, et al. **Blood** 1997 Apr 1;89(7):2233–58 (290 ref.)

Autologous transplantation with peripheral blood stem cells collected after granulocyte colony-stimulating factor in patients with acute myelogenous leukemia. Demirer T, et al. **Bone Marrow Transplant** 1996 Jul;18(1):29–34

HLA haploidentical cord blood cell transplant in a 15-year-old, 50 kg weight patient: successful treatment for chronic myeloid leukemia after myeloid blastic transformation. Fernández MN, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1175–8

High-dose chemotherapy with peripheral blood stem-cell transplantation for hormone-refractory advanced carcinoma of the prostate: experience of two cases. Nishiyama T, et al. **Int J Urol** 1996 Jul;3(4):320–3

Allogeneic peripheral blood progenitor cells: current status and future directions. Dreger P, et al. **J Hematother** 1996 Aug;5(4):331–7 (65 ref.)

ULTRASTRUCTURE

Effect of prolonged blood contact time on deposition of cellular and amorphous material on teflon-coated guidewires: a scanning electron microscopy study. Moreyra AE, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):355–9

VIROLOGY

A reevaluation of the association of hepatitis C virus replicative intermediates with peripheral blood cells including granulocytes by a tagged reverse transcription/polymerase chain reaction technique. Mihm S, et al. **J Hepatol** 1996 Apr;24(4):491–7

Distribution of hepatitis C virus (HCV) RNA in whole blood and blood cell fractions: plasma HCV RNA analysis underestimates circulating virus load. Schmidt WN, et al. **J Infect Dis** 1997 Jul;176(1):20–6

BLOOD CELLS, RED see **ERYTHROCYTES**

BLOOD CELLS, WHITE see **LEUKOCYTES**

BLOOD CHEMICAL ANALYSIS

Factors affecting the discriminant function analysis of blood chemistry profiles. Welte JW, et al. **Alcohol** 1997 Mar–Apr; 14(2):161–6

Quantitative capillary electrophoresis/ion spray tandem mass spectrometry determination of EDTA in human plasma and urine. Sheppard RL, et al. **Anal Chem** 1997 Aug 1; 69(15):2901–7

Determining EDTA in blood. Sheppard RL, et al. **Anal Chem** 1997 Aug 1;69(15):477A–480A

Enhanced chemiluminescent assay for measuring the total antioxidant capacity of serum, saliva and crevicular fluid. Chapple IL, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):412–21

Reproducibility studies and interlaboratory concordance for assays of serum hormone levels: estrone, estradiol, estrone sulfate, and progesterone. Gail MH, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Oct;5(10):835–44

Stability of vitamins A, C, and E, carotenoids, lipids, and testosterone in whole blood stored at 4 degrees C for 6 and 24 hours before separation of serum and plasma. Key T, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Oct; 5(10):811–4

Reliability and validity of serum sex hormone measurements. McShane LM, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):923–8

Interference of o-raffinose cross-linked hemoglobin with routine Hitachi 717 assays. Ali AC, et al. **Clin Chem** 1997 Sep;43(9):1794–6

In vitro effects of a novel hemoglobin-based oxygen carrier on routine chemistry, therapeutic drug, coagulation, hematology, and blood bank assays. Callas DD, et al. **Clin Chem** 1997 Sep;43(9):1744–8

Effect of hemoglobin- and Perflubron-based oxygen carriers on common clinical laboratory tests. Ma Z, et al. **Clin Chem** 1997 Sep;43(9):1732–7

Effect of hemoglobin-based oxygen carrier-201 on common chemistry laboratory procedures. Sarkozi L, et al. **Clin Chem** 1997 Sep;43(9):1792–4

Influence of exercise-induced plasma volume changes on the interpretation of biochemical data following high-intensity exercise. Kargotich S, et al. **Clin J Sport Med** 1997 Jul; 7(3):185–91

The relationship between heat stress, survivability and blood composition of the domestic chicken. Bogin E, et al. **Eur J Clin Chem Clin Biochem** 1996 Jun;34(6):463–9

Challenges in the development of (bio)chemical sensors for whole blood medical diagnostic applications. Luedi H. **EXS** 1997;81:141–8

Blood sampling in doping control. First experiences from regular testing in athletics. Birkeland KI, et al. **Int J Sports Med** 1997 Jan;18(1):8–12

Laboratory reference values for the 70 year olds. Hammerman-Rozenberg R, et al. **Isr J Med Sci** 1996 Aug; 32(8):611–20

Influence of an unaccustomed increase in training volume vs intensity on performance, hematological and blood-chemical parameters in distance runners. Lehmann M, et al. **J Sports Med Phys Fitness** 1997 Jun;37(2):110–6

Cardiorespiratory, hormonal and haematological responses to submaximal cycling performed 2 days after eccentric or concentric exercise bouts. Gleeson M, et al. **J Sports Sci** 1995 Dec;13(6):471–9

Habitual, toxic, and lethal concentrations of 103 drugs of abuse in humans. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997;35(1):1–9 (20 ref.)

Reference values of common blood chemistry analytes in healthy population of Rawalpindi-Islamabad area. Khan FA, et al. **JPMA J Pak Med Assoc** 1997 Jun;47(6):156–9

Population-based prevalence of perinatal exposure to cocaine--Georgia, 1994. **MMWR Morb Mortal Wkly Rep** 1996 Oct 18;45(41):887–91

Interpretation of routine chemistry tests in pediatrics. Pysher TJ, et al. **Pediatr Rev** 1996 Oct;17(10):357–69

The influence of preanalytical factors on concentrations of morphine and metabolites in patients receiving morphine. Westerling D, et al. **Pharmacol Toxicol** 1996 Feb;78(2):82–5

[Isolation of medicinal substances and drugs from biological material] Wawschinek O, et al. **Mikrochim Acta** 1977;(1–2 Pt 2):15–23 **(Ger)**

[Effects of anticoagulants used at blood specimen collection on clinical test results] Narayanan S. **Rinsho Byori** 1996 Nov;Suppl 103:73–91 **(Jpn)**

[Analysis of blood of children hospitalized in the Children Memorial Health Institute between July 1992 and November 1995] Lopaciuk U, et al. **Pediatr Pol** 1996 Jun; 71(6):523–7 (Eng. Abstr.) **(Pol)**

[Hematological serological valves, and organ weight in adult Sprague-Dawley rats] Uribe M, et al. **Rev Med Chil** 1995 Oct;123(10):1235–42 (Eng. Abstr.) **(Spa)**

HISTORY

Blood glucose: its measurement and clinical importance. Marks V. **Clin Chim Acta** 1996 Jul 15;251(1):3–17

[Milieu intérieur: from urea to radioimmunologic assays through flame photometry] Richet G. **Nephrologie** 1996; 17(2):131–6 **(Fre)**

INSTRUMENTATION

An assessment of the Boehringer Advantage blood glucose meter. Duly EB, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):422–3

The serum icteric-index as a tool to correct the influence of bilirubin on the uric acid and magnesium analyses on the Hitachi 747 analyser. van de Water C, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):556–8

Hypoglycemia is effectively evaluated at the bedside by the Ames Glucometer Elite. Innanen VT, et al. **Clin Biochem** 1996 Jun;29(3):279–81

Effect of Hemopure on the performance of Ektachem and Hitachi clinical analyzers. Moreira PL, et al. **Clin Chem** 1997 Sep;43(9):1790–1

Assessment of a portable clinical blood analyzer during space flight. Smith SM, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):1056–65

Evaluation of the performance of blood glucose meters in pregnant women [letter; comment] Massé J. **Diabetes Care** 1996 Sep;19(9):1031–3. Comment on: Diabetes Care 1996 Mar;19(3):268–9.

Reliability of serum separator blood drawing tubes under routine conditions [letter] Eichhorn U, et al. **Eur J Clin Chem Clin Biochem** 1997 Jun;35(6):483–4

Endogenous interferences on a DAX system: effects of haemolysis and hyperbilirubinaemia on creatinine and enzyme determinations [letter] Ross RS, et al. **Eur J Clin Chem Clin Biochem** 1997 Jul;35(7):551–2

The use of the iSTAT portable analyzer in patients undergoing cardiopulmonary bypass. Connelly NR, et al. **J Clin Monit** 1996 Jul;12(4):311–5

Point-of-care glucose testing in the neonatal intensive care unit is facilitated by the use of the Ames Glucometer Elite electrochemical glucose meter. Innanen VT, et al. **J Pediatr** 1997 Jan;130(1):151–5

Clinical utility of a glucose reflectance meter for screening neonates for hypoglycemia. Garland J, et al. **J Perinatol** 1996 Jul–Aug;16(4):250–3; quiz 254–5

Short-term canine implantation of a glucose monitoring-telemetry device. Atanasov P, et al. **Med Eng Phys** 1996 Dec;18(8):632–40

Ag/AgCl/Cl- coated silver-stripe reference electrode. Yalcinkaya F, et al. **Med Eng Phys** 1997 Apr;19(3):299–301

Clinical experience with the Diametrics IRMA (Immediate Response Mobile Analysis) blood analysis system. Hedlund KD, et al. **Perfusion** 1997 Mar;12(1):27–30

[Single liquid phase calibration of instruments for blood gas and electrolyte analysis (letter)] Sachs C. **Ann Biol Clin (Paris)** 1997 May–Jun;55(3):255–6 **(Fre)**

[Blood chemical analysis. F. Fluctuations in the bilirubin contents caused by changes in instrument, reagents, and sample containers used in the test] Iizuka K, et al. **Rinsho Byori** 1996 Nov;Suppl 103:187–91 **(Jpn)**

[Analysis of reliability of 3 portable blood glucose dosimeters. Comparison of various methods for the study of feasibility of clinical parameters] Gómez de la Cámara A, et al. **Med Clin (Barc)** 1997 Mar 22;108(11):410–3 **(Spa)**

METHODS

Development of somatostatin radioimmunoassay for the measurement of plasma and tissue contents of hormone. Németh J, et al. **Acta Physiol Hung** 1996;84(3):313–5

Evaluation of a new protamine titration method to assay heparin in whole blood and plasma. Schlueter AJ, et al. **Am J Clin Pathol** 1997 May;107(5):511–20

Gastric contamination of postmortem blood samples during blind-stick sample collection. Logan BK, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):109–11

The magnitude of metabolic acidosis is dependent on differences in bicarbonate assays [see comments] Bray SH, et al. **Am J Kidney Dis** 1996 Nov;28(5):700–3. Comment in: Am J Kidney Dis 1997 Jun;29(6):983–4.

Fluorescence detection of the anticancer drug topotecan in plasma and whole blood by two-photon excitation. Burke TG, et al. **Anal Biochem** 1996 Nov 15;242(2):266–70

Long-lifetime metal-ligand pH probe. Murtaza Z, et al. **Anal Biochem** 1997 May 1;247(2):216–22

Isotope ratio mass spectrometry, compared with conventional mass spectrometry in kinetic studies at low and high enrichment levels: application to lipoprotein kinetics. Pont F, et al. **Anal Biochem** 1997 Jun 1;248(2):277–87

An assay method for nitric oxide-related compounds in whole blood. Sonoda M, et al. **Anal Biochem** 1997 May 1;247(2):417–27

New enzymatic assay with urea amidolyase for determining potassium in serum. Kimura S, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):384–8

What is the best formula for predicting osmolar gap? Osypiw JC, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):551–2

The serum icteric-index as a tool to correct the influence of bilirubin on the uric acid and magnesium analyses on the Hitachi 747 analyser. van de Water C, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):556–8

Measurement of cytokine levels by coronary sinus blood sampling during cardiac surgery with cardiopulmonary bypass. Karube N, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M787–91

Multicenter evaluation of a new capillary blood prothrombin time monitoring system. van den Besselaar AM, et al. **Blood Coagul Fibrinolysis** 1995 Dec;6(8):726–32

Comparison of new solid-phase extraction methods for chromatographic identification of drugs in clinical toxicological analysis. Degel F. **Clin Biochem** 1996 Dec; 29(6):529–40

Suitability of lithium heparinate plasma for the measurement of selected analytes on Beckman Synchron CX analyzers. Racine JF, et al. **Clin Biochem** 1996 Oct;29(5):493–5

Evaluation of HemogloBind for removal of o-raffinose cross-linked hemoglobin (Hemolink) from serum. Balion CM, et al. **Clin Chem** 1997 Sep;43(9):1796–7

Planar (bio)sensors for critical care diagnostics. D'Orazio PA, et al. **Clin Chem** 1997 Sep;43(9):1804–5

Results of an international round robin for serum and whole-blood folate [see comments] Gunter EW, et al. **Clin Chem** 1996 Oct;42(10):1689–94. Comment in: Clin Chem 1996 Oct;42(10):1579–81.

Evaluation of the Menarini-Arkray HA 8140 hemoglobin A1c analyzer. John WG, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):968–75

Uniform solid-phase extraction procedure for toxicological drug screening in serum and urine by HPLC with photodiode-array detection. Lai CK, et al. **Clin Chem** 1997 Feb;43(2):312–25

Effect of Hemopure on the performance of Ektachem and Hitachi clinical analyzers. Moreira PL, et al. **Clin Chem** 1997 Sep;43(9):1790–1

Whole blood and plasma water in health and disease: longitudinal and transverse observations and correlations with several different hematological and clinicochemical parameters. Beijering RJ, et al. **Clin Chim Acta** 1997 Feb 3;258(1):59–68

An analytical method for the quantitation of mannitol and disaccharides in serum: a potentially useful technique in measuring small intestinal permeability in vivo. Cox MA, et al. **Clin Chim Acta** 1997 Jul 25;263(2):197–205

Albumin standards and the measurement of serum albumin with bromcresol green. 1971 [classical article] Dumas BT, et al. **Clin Chim Acta** 1997 Feb 3;258(1):21–30

Soluble highly coloured phenylboronic acids and their use in glycohemoglobin quantification. Frantzen F, et al. **Clin Chim Acta** 1997 Jul 25;263(2):207–24

An improved technique for the assay of red blood cell superoxide dismutase (SOD) activity. Ilouno LE, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):1–6

Commutability between stabilized materials and fresh human serum to improve laboratory performance. Ricós C, et al. **Clin Chim Acta** 1997 Jul 25;263(2):225–38

Determination of 18 beta-glycyrrhetinic acid in human serum using the fully automated ALCA-system. Heilmann P, et al. **Eur J Clin Chem Clin Biochem** 1997 Jul;35(7):539–43

Simultaneous automated determination of glucose 6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase activities in whole blood. Mosca A, et al. **Eur J Clin Chem Clin Biochem** 1996 May;34(5):431–8

Assay of serum/plasma beta-N-acetylhexosaminidase isoenzymes by heat inactivation using a continuous spectrophotometric method adapted to a centrifugal analyzer. Pérez LF, et al. **Eur J Clin Chem Clin Biochem** 1997 Jun;35(6):445–52

Evaluation of an immunoturbidimetric assay for haemoglobin A1c on a Cobas Mira S analyser. Weets I, et al. **Eur J Clin Chem Clin Biochem** 1996 May;34(5):449–53

Serum pooling lowers cholesterol recovery. Wills M, et al. **Eur J Clin Chem Clin Biochem** 1997 Jul;35(7):529–31

Moclobemide fatalities: report of two cases and analytical determinations by GC-MS and HPLC-PDA after solid-phase extraction. Gaillard Y, et al. **Forensic Sci Int** 1997 Jun 23;87(3):239–48

A simple chemiluminescence assay for detecting oxidative stress in ischemic limb injury. Sun JS, et al. **Free Radic Biol Med** 1996;20(1):107–12

Serum and erythrocyte magnesium in critically ill patients? [editorial; comment] Reinhart RA. **Intensive Care Med** 1996 Aug;22(8):722–3. Comment on: Intensive Care Med 1996 Aug;22(8):724–7.

Dilution of blood collected for medicolegal alcohol analysis by intravenous fluids. Riley D, et al. **J Anal Toxicol** 1996 Sep;20(5):330–1

Liquid chromatography-mass spectrometry with on-line solid-phase extraction by a restricted-access C18 precolumn for direct plasma and urine injection. van der Hoeven RA, et al. **J Chromatogr A** 1997 Feb 21; 762(1–2):193–200

Rapid radioassay for metabolites of adenosine and deoxyadenosine in erythrocytes. Szabados E, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):132–7

Comparison of three methods for 17 alpha-hydroxyprogesterone. Castracane VD, et al. **J Clin Lab Anal** 1997;11(4):179–85

Unusual interference from primary collection tube in a high-performance liquid chromatography assay of amiodarone. Murthy VV. **J Clin Lab Anal** 1997;11(4):232–4

Effect of high-performance liquid chromatography on plasma angiotensin II measurements in treated and untreated normotensive and hypertensive patients. Bragat AC, et al. **J Hypertens** 1997 May;15(5):459–65

Evaluation of neonatal whole blood versus plasma glucose concentration by ion-selective electrode technology and comparison with two whole blood chromogen test strip methods. Giep TN, et al. **J Perinatol** 1996 Jul–Aug; 16(4):244–9

Presence of paf-acether in human blood after thin-layer chromatography, but not after high-performance liquid chromatography purification. Izzo AA, et al. **J Pharmacol Toxicol Methods** 1996 Dec;36(4):219–21

Whole blood heparin concentration measurements by automated protamine titration agree with plasma anti-Xa measurements. Despotis GJ, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):611–3

Blood microdialysis in humans: a new method for monitoring plasma compounds. Paez X, et al. **Life Sci** 1997; 61(9):847–56

Effect of sample storage on quantitation of lipoprotein(a) by an enzyme-linked immunosorbent assay. Evans RW, et al. **Lipids** 1996 Nov;31(11):1197–203

Microbiological assay for serum, plasma, and red cell folate using cryopreserved, microtiter plate method. Molloy AM, et al. **Methods Enzymol** 1997;281:43–53

Clinical experience with the Diametrics IRMA (Immediate Response Mobile Analysis) blood analysis system. Hedlund KD, et al. **Perfusion** 1997 Mar;12(1):27–30

Quantitative bioanalysis utilizing high-performance liquid chromatography/electrospray mass spectrometry via selected-ion monitoring of the sodium ion adduct [M+Na]+. Jemal M, et al. **Rapid Commun Mass Spectrom** 1997;11(10):1083–8

Can chemiluminescent immunoanalysis of thyroid hormones stand for a reference method? Schneiderka P, et al. **Sb Lek** 1994;95(4):363–72

C-reactive protein: the difference between quantitation is serum and EDTA plasma. Nordin G, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):123–7

Feasibility of measuring blood glucose concentration by near-infrared Raman spectroscopy. Berger AJ, et al. **Spectrochim Acta A Mol Biomol Spectrosc** 1997 Feb; 53A(2):287–92

Serum ferritin iron, a new test, measures human body iron stores unconfounded by inflammation. Herbert V, et al. **Stem Cells** 1997;15(4):291–6

A new microplate red blood cell monolayer technique for screening and identifying red blood cell antibodies. Llopis F, et al. **Vox Sang** 1996;70(3):152–6

[Evaluation and control of quality of bedside blood glucose analyzers in clinical services] Couderc R, et al. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):343–7 **(Fre)**

[Adaptation of the measurement of plasma and erythrocyte glutathione peroxidase activity on Hitachi 911] Dever S, et al. **Ann Biol Clin (Paris)** 1996;54(5):199–202 (Eng. Abstr.) **(Fre)**

[Influence of visible interferences on biochemical assays realised on Au 5231, AU 5223 (Olympus) and CL 7200 (Shimadzu)] Frémont S, et al. **Ann Biol Clin (Paris)** 1996; 54(8–9):309–20 (Eng. Abstr.) **(Fre)**

[Validation and study of the transferability of the selected technique by SFBC for the determination of creatinine in plasma] Labbé D, et al. **Ann Biol Clin (Paris)** 1996; 54(8–9):299–308 (Eng. Abstr.) **(Fre)**

[Method selected for the determination of creatinine in plasma or serum. Choice of optimal conditions of measurement] Labbé D, et al. **Ann Biol Clin (Paris)** 1996; 54(8–9):285–98 (Eng. Abstr.) **(Fre)**

[Immunodiagnosis and blood biochemical diagnosis of visceral candidiasis and the cutoff limits of positive] Kume H, et al. **Rinsho Byori** 1996 Jun;44(6):505–11 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Chemical analysis--incidence of sampling errors in clinical chemistry and their countermeasures] Sasaki M. **Rinsho Byori** 1996 Nov;Suppl 103:150–5 **(Jpn)**

STANDARDS

Discrepancies in osmolal gaps and calculated alcohol concentrations [see comments] Osterloh JD, et al. **Arch Pathol Lab Med** 1996 Jul;120(7):637–41. Comment in: Arch Pathol Lab Med 1996 Jul;120(7):619–20.

The serum anion gap. Has the reference interval really fallen? Roberts WL, et al. **Arch Pathol Lab Med** 1997 Jun; 121(6):568–72

Quality of lipid and lipoprotein measurements in community laboratories. Watson JE, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):105–9

Do discrepancies exist in serum osmolal gaps and calculated serum alcohol concentrations? The significance to the clinician and clinical pathologist [editorial; comment] Wolf PL. **Arch Pathol Lab Med** 1996 Jul;120(7):619–20. Comment on: Arch Pathol Lab Med 1996 Jul;120(7):637–41.

IFCC-standardized pediatric reference intervals for 10 serum proteins using the Beckman Array 360 system. Davis ML, et al. **Clin Biochem** 1996 Oct;29(5):489–92

Results of an international round robin for serum and whole-blood folate [see comments] Gunter EW, et al. **Clin Chem** 1996 Oct;42(10):1689–94. Comment in: Clin Chem 1996 Oct;42(10):1579–81.

Point: status of lipid and lipoprotein standardization. McNamara JR, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1306–10

Aberrant results due to incorrect use of the Bayer glucometer 4 meter [letter] [see comments] Martin SC, et al. **Diabet Med** 1996 Jun;13(6):594. Comment in: Diabet Med 1997 Jan;14(1):86.

Determination of reference intervals for 13 plasma proteins based on IFCC international reference preparation (CRM470) and NCCLS proposed guideline (C28-P, 1992): a strategy for partitioning reference individuals with validation based on multivariate analysis. Ichihara K, et al. **J Clin Lab Anal** 1997;11(2):117–24

A survey of the values of clinical chemistry parameters obtained for a common rat blood sample in ninety-eight Japanese laboratories. Matsuzawa T, et al. **J Toxicol Sci** 1997 Feb;22(1):25–44

Individual vs laboratory variation in blood lipid values: updating the literature [letter; comment] Cohen A, et al. **JAMA** 1997 Aug 13;278(6):478. Comment on: JAMA 1992 Mar 25;267(12):1652–60.

Laboratory process improvement through point-of-care testing. Bailey TM, et al. **Jt Comm J Qual Improv** 1997 Jul;23(7):362–80

[Incidence of the standardization of serum transferrin assay by CRM 470 on iron saturation ratio of transferrin] Vernet M, et al. **Ann Biol Clin (Paris)** 1996;54(3–4):171–5 **(Fre)**

[Standardization Committee for Haematology. External Quality Assurance Program for General Hematology. Evaluation of the 1994 results] Gutiérrez G, et al. **Sangre (Barc)** 1996 Apr;41(2):115–23 (Eng. Abstr.) **(Spa)**

STATISTICS & NUMERICAL DATA

Rethinking the threshold for an abnormal capillary blood lead screening test. Sargent JD, et al. **Arch Pediatr Adolesc Med** 1996 Oct;150(10):1084–8

Determination of reference intervals for 13 plasma proteins based on IFCC international reference preparation (CRM470) and NCCLS proposed guideline (C28–P,1992): trial to select reference individuals by results of screening tests and application of maximal likelihood method. Ichihara K, et al. **J Clin Lab Anal** 1996;10(2):110–7

Contribution to the study of the multidimensional variational network of the human gerontogenesis. Acălugăriţei G, et al. **Rom J Physiol** 1995 Jan–Dec;32(1–4):119–24

Variation of correlation coefficient among aging and certain biological variables in man. Galaftion S, et al. **Rom J Physiol** 1995 Jan–Dec;32(1–4):111–7

[Reference intervals and biological profile in a group of healthy elderly population in the Paris region] Cals MJ, et al. **Ann Biol Clin (Paris)** 1996;54(7):307–15 (Eng. Abstr.) **(Fre)**

[Reference ranges in geriatrics: a review of age-dependence of selected blood components] Harm K. **Z Gerontol Geriatr** 1997 May–Jun;30(3):185–92 (25 ref.) (Eng. Abstr.) **(Ger)**

UTILIZATION

Calcium, magnesium, and phosphorus: emergency department testing yield. Rose WD, et al. **Acad Emerg Med** 1997 Jun;4(6):559–63

Comparison of laboratory test frequency and test results between African-Americans and Caucasians with diabetes: opportunity for improvement. Findings from a large urban health maintenance organization. Wisdom K, et al. **Diabetes Care** 1997 Jun;20(6):971–7

VETERINARY

Effect of show jumping on heart rate, blood lactate and other plasma biochemical values. Art T, et al. **Equine Vet J Suppl** 1990 Jun;(9):78–82

Interpretation of equine serum biochemical profile results. Stockham SL. **Vet Clin North Am Equine Pract** 1995 Dec; 11(3):391–414 (140 ref.)

[Reference values of electrodiagnostic and laboratory studies in young Wallis Schwarzhals goats] Steffen F, et al. **Tierarztl Prax** 1996 Feb;24(1):22–8 (Eng. Abstr.) **(Ger)**

BLOOD CIRCULATION

see related
HYPEREMIA
ISCHEMIA
PLETHYSMOGRAPHY

Tissue oxygenation—circulatory aspects. Takala J. **Acta Anaesthesiol Scand Suppl** 1997;110:85–6

Arguments for the use of thermal indicators to measure whole body blood flow. Takala J. **Acta Anaesthesiol Scand Suppl** 1997;110:138

The relationship of recirculation to access blood flow. Besarab A, et al. **Am J Kidney Dis** 1997 Feb;29(2):223–9

Fetal cerebral, circulatory, and metabolic responses during heart rate decelerations with umbilical cord compression. Richardson BS, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):929–36

Flow- and bradykinin-induced nitric oxide production by endothelial cells is independent of membrane potential. Gooch KJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C546–51

Changes in regional hemodynamics after nitric oxide inhibition during ovine bacteremia. Lingnau W, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R207–16

Method for determining distribution of reflection sites in the arterial system. Pythoud F, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):H1807–13

Tissue oxygenation and perfusion in endotoxemia. Sair M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1620–5

Dorsal aortic impedance in stage 24 chick embryo following acute changes in circulating blood volume. Yoshigi M, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1597–606

Small-volume resuscitation using hypertonic saline improves organ perfusion in burned rats. Kien ND, et al. **Anesth Analg** 1996 Oct;83(4):782–8

Spatial relationships in early signaling events of flow-mediated endothelial mechanotransduction. Davies PF, et al. **Annu Rev Physiol** 1997;59:527–49 (48 ref.)

Peripheral venous blood is not the appropriate specimen to determine the amount of recirculation during hemodialysis. Van Stone JC. **ASAIO J** 1996 Jan–Feb;42(1):41–5

Validation of the multiple colored microsphere technique for regional blood flow measurements in newborn piglets. Walter B, et al. **Basic Res Cardiol** 1997 Jun;92(3):191–200

Disinhibition of the hypothalamic paraventricular nucleus increases mean circulatory filling pressure in conscious rats. Martin DS, et al. **Brain Res** 1997 May 9;756(1–2):106–13

The role of the vasculature in regulating venous return and cardiac output: historical and graphical approach. Jacobsohn E, et al. **Can J Anaesth** 1997 Aug;44(8):849–67 (74 ref.)

Linearity of pulsatile pressure-flow relations in the embryonic chick vascular system. Yoshigi M, et al. **Circ Res** 1996 Oct;79(4):864–70

Circulatory status and response to cardiac rehabilitation in patients with heart failure. Wilson JR, et al. **Circulation** 1996 Oct 1;94(7):1567–72

Neural control of the circulation in heart failure and coronary ischaemia: introduction. Zucker IH. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):685–7

Blood recirculation in temporary central catheters for acute hemodialysis. Leblanc M, et al. **Clin Nephrol** 1996 May; 45(5):315–9

A method for fully automated quantitative analysis of arterial flow using flow-sensitized MR images. Chwialkowski MP, et al. **Comput Med Imaging Graph** 1996 Sep–Oct; 20(5):365–78

Biological oscillators [letter; comment] Kleinman B. **Crit Care Med** 1997 Mar;25(3):555. Comment on: Crit Care Med 1996 Jul;24(7):1107–16. Comment on: Crit Care Med 1996 Jul;24(7):1117–24.

Analog transmission line model for simulation of systemic circulation. Chen CW, et al. **IEEE Trans Biomed Eng** 1997 Jan;44(1):90–4

Thermal and circulatory responses during exercise: effects of hypohydration, dehydration, and water intake. Armstrong LE, et al. **J Appl Physiol** 1997 Jun;82(6):2028–35

Numerical simulation of the blood flow in the human cardiovascular system. Záček M, et al. **J Biomech** 1996 Jan;29(1):13–20

Measurements of oxygenation and perfusion in skeletal muscle using multiple microelectrodes. Greenbaum AR, et al. **J Muscle Res Cell Motil** 1997 Apr;18(2):149–59

Validation of a revised slow-stop flow recirculation method. Kapoian T, et al. **Kidney Int** 1997 Sep;52(3):839–42

Vascular Biology '97. Abstracts. **Microcirculation** 1997 Mar; 4(1):111–209

Blood flow patterns in the rat pancreas: a simulative demonstration by injection replication and scanning electron microscopy. Murakami T, et al. **Microsc Res Tech** 1997 Jun 1–15;37(5–6):497–508

Measurement of recirculation without peripheral venipuncture [letter] Guiserix J, et al. **Nephron** 1997; 76(2):242

Enhancement of perioperative tissue perfusion as a therapeutic strategy for major surgery. Boyd O, et al. **New Horiz** 1996 Nov;4(4):453–65 (59 ref.)

Circulatory concentrations of fibrinolytic species during thrombolytic therapy estimated by stirred-tank reactor analysis. Tuliani VV, et al. **Pharm Res** 1997 Aug; 14(8):1051–7

Circulatory, respiratory, cerebral, and renal derangements in acute liver failure: pathophysiology and management. Ellis A, et al. **Semin Liver Dis** 1996 Nov;16(4):379–88 (63 ref.)

Changes in organ perfusion after brain death in the rat and its relation to circulating catecholamines. Herijgers P, et al. **Transplantation** 1996 Aug 15;62(3):330–5

[Macro- and microcirculation study in diabetic patients] Corsi M, et al. **Minerva Cardioangiol** 1996 Nov;44(11):535–7 (Eng. Abstr.) **(Ita)**

[Quantification of blood flow using MR imaging with pre-saturation band] Kishimoto R. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan;56(1):14–8 (Eng. Abstr.) **(Jpn)**

[Diameter decrement of abdominal aorta and redistribution of systemic blood flow in non-ambulant Duchenne muscular dystrophy patients] Shinoe T, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1172–4 (Eng. Abstr.) **(Jpn)**

[Congenital heart disease with ductus dependent systemic blood flow] Yasuda T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):228–31 (4 ref.) **(Jpn)**

[Differences in blood supply of the brain and liver during acute blood loss in rats with different resistance to circulatory hypoxia] Kovalenko NIa, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):253–7 **(Rus)**

[Changes in the hemodynamic indices of patients with juvenile hypertension and different hemodynamic types of circulation] Chernoguz LS, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):42–5 **(Rus)**

[A model of the blood circulation system with extensive pulsing simulation as basis of monitoring artificial heart] Dittrich C, et al. **Med Tekh** 1996 Nov–Dec;(6):45–6 (Eng. Abstr.) **(Rus)**

[Central and regional hemodynamics during the physiological course of pregnancy and the systemic circulatory disorders in gestoses] Strizhakov AN, et al. **Vestn Ross Akad Med Nauk** 1996;(6):72–7 (Eng. Abstr.) **(Rus)**

[The orthostatic resistance of the cerebral and peripheral circulations in patients with contusive brain lesions] Anzimirov VL, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr–Jun; (2):20–3 (Eng. Abstr.) **(Rus)**

[Integration and diffusion of the doctrine of blood circulation] de Micheli A. **Arch Inst Cardiol Mex** 1996 Sep–Oct; 66(5):441–8 **(Spa)**

[The heart pumping function and the systemic regulation of blood circulation in groups of heart surgery patients] Knyshov HV, et al. **Fiziol Zh** 1996;42(5–6):3–18 (Eng. Abstr.) **(Ukr)**

[Mathematical modeling of blood circulation in transplantation of tissue complexes on a single-component vascular pedicle] Radomskiĭ OA. **Klin Khir** 1996;(4):30–3 **(Ukr)**

DRUG EFFECTS

Changes in EEG, systemic circulation and blood gas parameters following two or six aliquots of porcine surfactant. Lundstrøm KE, et al. **Acta Paediatr** 1996 Jun; 85(6):708–12

Dietary L-arginine supplementation normalizes regional blood flow in Dahl-Iwai salt-sensitive rats. He H, et al. **Am J Hypertens** 1997 May;10(5 Pt 2):89S–93S

Endothelin-1 constricts fetoplacental microcirculation and decreases fetal O2 consumption in sheep. Adamson SL, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H16–23

Differences between cytokine effects in the microcirculation of the rat. Baudry N, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1186–92

Effects of dipyridamole and adenosine infusions on ovine pulmonary and systemic circulations. Skimming JW, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H921–6

Effects of norepinephrine on regional blood flow and oxygen extraction capabilities during endotoxic shock. Zhang H, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1965–71

Systemic vascular effects of isoflurane versus propofol anesthesia in dogs [see comments] Deryck YL, et al. **Anesth Analg** 1996 Nov;83(5):958–64. Comment in: Anesth Analg 1997 Apr;84(4):940–1.

The effect of dexmedetomidine on nutrient organ blood flow. Lawrence CJ, et al. **Anesth Analg** 1996 Dec;83(6):1160–5

Circulatory effects of surfactant therapy. Moen A. **Biol Neonate** 1997;71 Suppl 1:18–22 (30 ref.)

Influence of inhaled nitric oxide on systemic flow and ventricular filling pressure in patients receiving mechanical circulatory assistance. Hare JM, et al. **Circulation** 1997 May 6;95(9):2250–3

Recombinant tissue plasminogen activator restores perfusion in meningococcal purpura fulminans [see comments] Aiuto LT, et al. **Crit Care Med** 1997 Jun;25(6):1079–82. Comment in: Crit Care Med 1997 Jun;25(6):909.

Oxalated pyridoxalated hemoglobin polyoxyethylene conjugate normalizes the hyperdynamic circulation in septic sheep. Bone HG, et al. **Crit Care Med** 1997 Jun; 25(6):1010–8

Effects of carvedilol and atenolol on arterial pulse curves (plethysmography) and finger temperature after hand cooling. Klemsdal TO, et al. **Eur J Clin Pharmacol** 1996; 50(6):483–9

Randomized trial comparing albumin, dextran 70, and polygeline in cirrhotic patients with ascites treated by paracentesis [see comments] Ginès A, et al. **Gastroenterology** 1996 Oct;111(4):1002–10. Comment in: ACP J Club 1996 May–Jun;126(3):69.

Regional hemodynamic dose-response of lemakalim and glybenclamide in anesthetized rats. Smits GJ, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):49–56

Differential release of prostacyclin and nitric oxide evoked from pulmonary and systemic vascular beds of the pig by endothelin-1. Clement MG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):279–85

Effect on fetal circulation of low-dose aspirin for prevention and treatment of pre-eclampsia and intrauterine growth restriction: Doppler flow study. Bar J, et al. **Ultrasound Obstet Gynecol** 1997 Apr;9(4):262–5

PHYSIOLOGY

Non-adrenergic regulation of microcirculation evoked by antidromic stimulation of the saphenous nerve in the rat skin. Pintér E, et al. **Acta Physiol Hung** 1996;84(3):331–2

Rise of tissue temperature induced by reduced blood perfusion caused by external pressure. Yamada Y, et al. **Adv Exp Med Biol** 1996;388:391–7

Chronic increases in blood flow upregulate endothelin-B receptors in arterial smooth muscle. Barber DA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H65–71

Acetylcholine- and flow-induced production and release of nitric oxide in arterial and venous endothelial cells. Fukaya Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H99–106

Flow-induced detachment of adherent platelets from fibrinogen-coated surface. Jen CJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H160–6

Local cholinergic mechanisms mediate nitric oxide-dependent flow-induced vasorelaxation in vitro. Martin CM, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H442–6

Branchial and systemic roles of adenosine receptors in rainbow trout: an in vivo microscopy study. Sundin L, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R661–9

Spatial relationships in early signaling events of flow-mediated endothelial mechanotransduction. Davies PF, et al. **Annu Rev Physiol** 1997;59:527–49 (48 ref.)

Precapillary servo control of blood pressure and postcapillary

adjustment of flow to tissue metabolic status. A new paradigm for local perfusion regulation. Groebe K. **Circulation** 1996 Oct 15;94(8):1876–85

Fluid flow inhibits endothelial adhesiveness. Nitric oxide and transcriptional regulation of VCAM–1. Tsao PS, et al. **Circulation** 1996 Oct 1;94(7):1682–9

Brain angiotensin and circulatory control. Muratani H, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):458–64 (74 ref.)

Evaluation of hypostasis using a colorimeter measuring system and its application to assessment of the post–mortem interval (time of death). Vanezis P, et al. **Forensic Sci Int** 1996 Mar 5;78(1):19–28

Circulatory mechanics and blood propulsion. King CL. **Int Anesthesiol Clin** 1996 Spring;34(2):1–14

Quantification of pulmonary and systemic blood flow by magnetic resonance velocity mapping in the assessment of atrial–level shunts [see comments] Rebergen SA, et al. **Int J Card Imaging** 1996 Sep;12(3):143–52. Comment in: Int J Card Imaging 1996 Sep;12(3):213–4. Comment in: Int J Card Imaging 1996 Sep;12(3):215–7.

Dermofluorography as a possibility for therapeutic control following sympathectomy. Böhler U, et al. **Int J Microcirc Clin Exp** 1996 Jul–Aug;16(4):195–7

"Exhaled nitric oxide during exercise: site of release and modulation by ventilation and blood flow" [editorial] Massaro AF, et al. **J Appl Physiol** 1996 Jun;80(6):1863–4

The autonomic nervous system: a Sherringtonian revision of its integrated properties in the control of circulation. Malliani A. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):158–61 (26 ref.)

In memoriam Hans–Peter Koepchen. Seller H. **J Auton Nerv Syst** 1996 Mar 7;57(3):129–31

Power spectrum analysis of spontaneous fluctuations in the photoplethysmographic signal. Nitzan M, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul–Dec;5(3–4):269–76

Pulsatile and nonpulsatile perfusion: the continuing controversy. Hornick P, et al. **J Cardiothorac Vasc Anesth** 1997 May;11(3):310–5 (63 ref.)

Role of calcitonin gene–related peptide in the vascular system on the development of the hyperdynamic circulation in conscious cirrhotic rats. Hori N, et al. **J Hepatol** 1997 May; 26(5):1111–9

Human aortic endothelial cell migration onto stent surfaces under static and flow conditions. Sprague EA, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):83–92

Tracheal, circulatory, and respiratory responses to femoral nerve stimulation. Kanazawa O, et al. **Jpn J Physiol** 1996 Aug;46(4):319–25

Interaction of nitric oxide with myogenic and adrenergic vasoconstrictor processes in the control of microcirculatory blood flow. Pohl U, et al. **Pflugers Arch** 1996;432(3 Suppl):R107–10 (46 ref.)

Relevance and reliability of Ludwig's scientific conceptions of the physiology of the microcirculation. Schröer H. **Pflugers Arch** 1996;432(3 Suppl):R23–32 (59 ref.)

The endothelium and cardiocirculatory function, Part I. Introduction. Brutsaert DL, et al. **Prog Cardiovasc Dis** 1996 Nov–Dec;39(3):207–8

Unbalanced cross circulation in conjoined twins. Lai HS, et al. **Surgery** 1997 May;121(5):591–2

Ultrasonic color flow mapping: the visualization of four–dimensional cardiac and vascular flow phenomena using two dimensions and "real time". Beach KW, et al. **Ultrasound Med Biol** 1997;23(3):347–63 (12 ref.)

Ultrasound Doppler vector tomography measurements of directional blood flow. Jansson T, et al. **Ultrasound Med Biol** 1997;23(1):47–57

[The role of endothelin in the physiology and pathophysiology of the circulatory system and kidneys] Chudek J, et al. **Pol Arch Med Wewn** 1996 Dec;96(6):581–9 (94 ref.) **(Pol)**

[Regional blood flow distribution in waking rats under elevated external temperature] Turganbaeva AS, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug–Sep;82(8–9):59–66 (Eng. Abstr.) **(Rus)**

[Physiological and biological problems of the microcirculation and their resolution in the evolution of the blood and blood circulation] Ivanov KP. **Zh Evol Biokhim Fiziol** 1996 May–Jun;32(3):350–70 (64 ref.) **(Rus)**

[The role of the endothelium and of biologically active substances of endothelial origin in regulating blood circulation and cardiac activity] Moĭbenko OO, et al. **Fiziol Zh** 1997;43(1–2):3–18 (70 ref.) (Eng. Abstr.) **(Ukr)**

[Circulatory changes in acute myocardial ischemia in dogs with experimental diabetes mellitus] Neshcheret OP, et al. **Fiziol Zh** 1997;43(1–2):70–7 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

[Evaluation of selected parameters of circulatory system function in various occupational groups of workers exposed to high frequency electromagnetic fields] Zmyślony M, et al. **Med Pr** 1996;47(1):9–14 (Eng. Abstr.) **(Pol)**

BLOOD CIRCULATION, COLLATERAL see **COLLATERAL CIRCULATION**

BLOOD CIRCULATION TIME

[Circulation time measurement] Katori R. **Nippon Rinsho** 1997 Mar;55 Suppl 1:507–10 (13 ref.) **(Jpn)**

BLOOD CLOTTING see **BLOOD COAGULATION**

BLOOD COAGULATION

see related
ANTICOAGULANTS
COAGULANTS
HEMOSTATICS

Is there any relative importance of temperature adapted coagulation monitoring? Sitzwohl C, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:76–7

Coagulation monitoring in the perioperative period. Spiess BD. **Acta Anaesthesiol Scand Suppl** 1996;109:77–9

A study of coagulation and anti–endothelial antibodies in idiopathic livedo reticularis. Faclieru D, et al. **Acta Derm Venereol** 1997 May;77(3):181–3

Postangioplasty restenosis: platelet activation and the coagulation–fibrinolysis system as possible factors in the pathogenesis of restenosis. Ishiwata S, et al. **Am Heart J** 1997 Apr;133(4):387–92

Effect of mitral valvuloplasty in mitral stenosis on coagulation activity. Yamamoto K, et al. **Am J Cardiol** 1997 Apr 15;79(8):1131–5

Enhanced generation of monocyte tissue factor and increased plasma prothrombin fragment1+2 levels in patients with polycythemia vera: mechanism of activation of blood coagulation. Kornberg A, et al. **Am J Hematol** 1997 Sep; 56(1):5–11

Hemostasis in newborns of smoking and nonsmoking mothers. Mercelina–Roumans PE, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):662–6

Antithrombin III during cardiac surgery: effect on response of activated clotting time to heparin and relationship to markers of hemostatic activation. Despotis GJ, et al. **Anesth Analg** 1997 Sep;85(3):498–506

Does the platelet–activated clotting test (HemoSTATUS) predict blood loss and platelet dysfunction associated with cardiopulmonary bypass? Ereth MH, et al. **Anesth Analg** 1997 Aug;85(2):259–64

Functional maturity of the coagulation system in children: an evaluation using thrombelastography. Miller BE, et al. **Anesth Analg** 1997 Apr;84(4):745–8

The effect of anesthetic techniques on blood coagulability in parturients as measured by thromboelastography. Sharma SK, et al. **Anesth Analg** 1997 Jul;85(1):82–6

Hypercoagulability in venous and arterial thrombosis. Thomas DP, et al. **Ann Intern Med** 1997 Apr 15; 126(8):638–44 (51 ref.)

Viral activation of coagulation: implications for thrombosis and atherosclerosis. Hajjar DP, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:155–65; discussion 165–7 (68 ref.)

Relative involvement of GPIb/IX–vWF axis and GPIIb/IIIa in thrombus growth at high shear rates in the guinea pig. André P, et al. **Arterioscler Thromb Vasc Biol** 1997 May; 17(5):919–24

Human brain pericytes differentially regulate expression of procoagulant enzyme complexes comprising the extrinsic pathway of blood coagulation. Bouchard BA, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):1–9

Factor VII, cholesterol, and triglycerides. The CARDIA Study. Coronary Artery Risk Development in Young Adults Study. Green D, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):51–5

Platelet activation in flowing blood passing growing arterial thrombi. Hagberg IA, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1331–6

Shear–induced platelet activation and platelet microparticle formation at blood flow conditions as in arteries with a severe stenosis. Holme PA, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):646–53

Gene polymorphisms predicting high plasma levels of coagulation and fibrinolysis proteins. A study in centenarians. Mannucci PM, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):755–9

Is there a hypercoagulable state in military fighter pilots? Biondi G, et al. **Aviat Space Environ Med** 1996 Jun; 67(6):568–71

Activation of Mac–1 (CD11b/CD18)–bound factor X by released cathepsin G defines an alternative pathway of leucocyte initiation of coagulation. Plescia J, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):873–9

The carboxyl–terminal region of factor IX is essential for its secretion. Kurachi S, et al. **Biochemistry** 1997 Apr 8; 36(14):4337–44

Plasmatic parameters of coagulation activation in thrombotic microangiopathy. Sagripanti A, et al. **Biomed Pharmacother** 1996;50(8):357–62

Nonlinear viscoelasticity and the thrombelastograph: 1. Studies on bovine plasma clots. Burghardt WR, et al. **Biorheology** 1995 Nov–Dec;32(6):621–30

Apoptotic vascular endothelial cells become procoagulant. Bombeli T, et al. **Blood** 1997 Apr 1;89(7):2429–42

Activation of the coagulation cascade in C1–inhibitor deficiencies. Cugno M, et al. **Blood** 1997 May 1; 89(9):3213–8

Activation of the contact system in patients with sepsis and with septic shock [letter; comment] Wuillemin WA, et al. **Blood** 1997 May 15;89(10):3893–4. Comment on: Blood 1996 Aug 1;88(3):881–6.

Prothrombin conversion under flow conditions by prothrombinase assembled on adherent platelets. Billy D, et al. **Blood Coagul Fibrinolysis** 1997 Apr;8(3):168–74

Activation of coagulation by a LDL–apheresis device. Giansante C, et al. **Blood Coagul Fibrinolysis** 1996 Jun; 7(4):447–52

Activation of coagulation and platelets is affected by the hydrophobicity of artificial surfaces. Hunt BJ, et al. **Blood Coagul Fibrinolysis** 1997 Jun;8(4):223–31

Transmission of a procoagulant signal from tissue factor–bearing cell to platelets. Monroe DM, et al. **Blood Coagul Fibrinolysis** 1996 Jun;7(4):459–64

Different contribution of factor V Leiden–associated hypercoagulability to ischaemic cerebrovascular disease in the elderly [letter] Ripoll L, et al. **Blood Coagul Fibrinolysis** 1997 Jun;8(4):253–4

Complex functional and structural coagulation abnormalities in the carbohydrate–deficient glycoprotein syndrome type I. Stibler H, et al. **Blood Coagul Fibrinolysis** 1996 Mar; 7(2):118–26

New pentamidine related substances which simultaneously inhibit platelet aggregation and accelerate plasmin generation and in vitro clot lysis. Udvardy M, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):256–8

Activation of coagulation and deep vein thrombosis after bone marrow harvesting and insertion of a Hickman–catheter in ABMT patients with malignant lymphoma. Sletnes KE, et al. **Bone Marrow Transplant** 1996 Apr;17(4):577–81

Novel and diagnostically applicable information from optical waveform analysis of blood coagulation in disseminated intravascular coagulation. Downey C, et al. **Br J Haematol** 1997 Jul;98(1):68–73

Annexin V, the regulator of phosphatidylserine–catalyzed inflammation and coagulation during apoptosis. Reutelingsperger CP, et al. **Cell Mol Life Sci** 1997 Jun; 53(6):527–32 (58 ref.)

Increased activation of the coagulation and fibrinolytic systems leads to hemorrhagic complications during left ventricular assist implantation. Livingston ER, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II227–34

Coagulation in chronic atrial fibrillation [letter; comment] Meloni L, et al. **Circulation** 1997 Aug 5;96(3):1053–4; discussion 1055–6. Comment on: Circulation 1996 Aug 1;94(3):425–31.

Coagulation in chronic atrial fibrillation [letter; comment] Peverill RE, et al. **Circulation** 1997 Aug 5;96(3):1054–6. Comment on: Circulation 1996 Aug 1;94(3):425–31.

Determinants of increased regional left atrial coagulation activity in patients with mitral stenosis. Peverill RE, et al. **Circulation** 1996 Aug 1;94(3):331–9

Coagulation and fibrinolytic parameters in patients with pulmonary hypertension. Altman R, et al. **Clin Cardiol** 1996 Jul;19(7):549–54

Coagulation monitor based on serum migration through absorbent materials. Wilson PE. **Clin Chem** 1997 Sep; 43(9):1716–8

Coagulation for blood bankers. Stubbs JR. **Clin Lab Med** 1996 Dec;16(4):837–71 (226 ref.)

The effect of coagulation parameters on the placental respiratory and nutritive function in women having chronic hypertension with superimposed preeclampsia. Djelmiš J, et al. **Coll Antropol** 1997 Jun;21(1):127–37

Rationale for the use of conjunctive anticoagulation during thrombolysis. Jaffe AS. **Coron Artery Dis** 1996 Jul; 7(7):491–6 (46 ref.)

Novel aspects of blood coagulation factor XIII. I. Structure, distribution, activation, and function. Muszbek L, et al. **Crit Rev Clin Lab Sci** 1996 Oct;33(5):357–421 (328 ref.)

Hitting cancer where it hurts. Sunassee K, et al. **Curr Biol** 1997 May 1;7(5):R282–5 (10 ref.)

Histological examination of clots from cytological specimens: is this a worthwhile procedure? Addey A, et al. **Cytopathology** 1996 Apr;7(2):120–4

Changes in platelet count, coagulation and fibrinogen associated with elective repair of asymptomatic abdominal aortic aneurysm and aortic reconstruction for occlusive disease. Bradbury A, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):375–80

Calibration of clot–based, coagulation factor assays using a first–order exponential equation and the method of nonlinear least squares. Retzinger GS. **Haematologia (Budap)** 1997;28(3):139–48

Urinary procoagulant activity and tissue factor levels in patients with diabetes mellitus. Qi H, et al. **Haemostasis** 1997 Mar–Apr;27(2):57–64

Changes in coagulation and fibrinolytic parameters caused by extracorporeal circulation. Grossmann R, et al. **Heart Vessels** 1996;11(6):310–7

Coagulation activation in extracorporeal hemodialysis. Camici M, et al. **Int J Artif Organs** 1997 Mar;20(3):163–5

Global and extended coagulation monitoring during extracorporeal lung assist with heparin–coated systems in ARDS patients. Gerlach M, et al. **Int J Artif Organs** 1997 Jan;20(1):29–36

HELLP syndrome after the improvement of coagulation and fibrinolysis parameters in severe preeclampsia [letter] Furuhashi M, et al. **Int J Gynaecol Obstet** 1996 Mar; 52(3):279–80

Continuous venovenous haemofiltration using polyacrylonitrile filters does not activate contact system and intrinsic coagulation pathways. Salmon J, et al. **Intensive Care Med** 1997 Jan;23(1):38–43

Atrial fibrillation activates platelets and coagulation in a

time-dependent manner: a study in patients with paroxysmal atrial fibrillation. Sohara H, et al. **J Am Coll Cardiol** 1997 Jan;29(1):106–12

Coagulation abnormalities in non-cirrhotic portal fibrosis and extra hepatic portal vein obstruction. Sheth SG, et al. **J Assoc Physicians India** 1996 Nov;44(11):790–1

Evaluation of the initiation phase of blood coagulation using ultrasensitive assays for serine proteases. Butenas S, et al. **J Biol Chem** 1997 Aug 22;272(34):21527–33

Selective loss of fibrinogen clotting in a loop-less thrombin. Dang QD, et al. **J Biol Chem** 1997 Aug 8;272(32):19649–51

Zinc as a cofactor for heparin neutralization by histidine-rich glycoprotein. Kluszynski BA, et al. **J Biol Chem** 1997 May 23;272(21):13541–7

Radiation-induced graft copolymer SBS-g-VP for biomaterial usage. Yang JM, et al. **J Biomed Mater Res** 1996 Jun;31(2):281–6

Factor Xa as an interface between coagulation and inflammation. Molecular mimicry of factor Xa association with effector cell protease receptor-1 induces acute inflammation in vivo [see comments] Cirino G, et al. **J Clin Invest** 1997 May 15;99(10):2446–51. Comment in: J Clin Invest 1997 May 15;99(10):2299.

Natural anticoagulants and the liver. Castelino DJ, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):77–83 (32 ref.)

Pretreatment with a 55-kDa tumor necrosis factor receptor-immunoglobulin fusion protein attenuates activation of coagulation, but not of fibrinolysis, during lethal bacteremia in baboons. van der Poll T, et al. **J Infect Dis** 1997 Jul;176(1):296–9

Importance of clot structure in gradient-echo magnetic resonance imaging of hematoma. Taber KH, et al. **J Magn Reson Imaging** 1996 Nov-Dec;6(6):878–83

Identification and characterization of anticoagulant activities in the saliva of the lone star tick, Amblyomma americanum (L.). Zhu K, et al. **J Parasitol** 1997 Feb;83(1):38–43

Extracorporeal membrane oxygenation and clotting revisited [letter; comment] Plötz F. **J Pediatr** 1997 May;130(5):847–8 . Comment on: J Pediatr 1996 Aug;129(2):264–8.

Activation of coagulation and fibrinolytic pathways in patients with left ventricular assist devices. Spanier T, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1090–7

Efficacy of local inhibition of procoagulant activity associated with small-diameter prosthetic vascular grafts. Oltrona L, et al. **J Vasc Surg** 1996 Oct;24(4):624–31

Baseline coagulation assay values for northern elephant seals (Mirounga angustirostris), and disseminated intravascular coagulation in this species. Gulland FM, et al. **J Wildl Dis** 1996 Jul;32(3):536–40

Why do patients with antiphospholipid antibody clot? [editorial; comment] Lockshin MD. **Lupus** 1997;6(4):351–2 . Comment on: Lupus 1997 ;6(4):358–64.

Changes in the haemostatic profile during magnesium deficiency in swine. Serebruany VL, et al. **Magnes Res** 1996 Oct;9(3):155–63

Tipping the balance of blood coagulation [news; comment] Grinnell BW. **Nat Biotechnol** 1997 Feb;15(2):124–5. Comment on: Nat Biotechnol 1997 Feb;15(2):146–9.

Effects of haemodialysis on coagulation and platelets: are we measuring membrane biocompatibility? Ward RA. **Nephrol Dial Transplant** 1995;10 Suppl 10:12–17 (46 ref.)

Coagulative and fibrinolytic activation in cerebrospinal fluid and plasma after subarachnoid hemorrhage. Ikeda K, et al. **Neurosurgery** 1997 Aug;41(2):344–9; discussion 349–50

Activation of the clotting system and complement after trauma. Dries DJ. **New Horiz** 1996 May;4(2):276–88 (80 ref.)

Activation of the coagulation cascade in untreated primary open-angle glaucoma. O'Brien C, et al. **Ophthalmology** 1997 Apr;104(4):725–9; discussion 729–30

Characterization of dysfunctional protein S-Tokushima (K155-->E) in relation to the molecular interactions required for the regulation of blood coagulation. Hayashi T, et al. **Pol J Pharmacol** 1996 Mar-Apr;48(2):221–3

A heparin-binding synthetic peptide of heparin/heparan sulfate-interacting protein modulates blood coagulation activities. Liu S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1739–44

Procoagulant activity of purified protein derivative-stimulated pleural effusion mononuclear cells in tuberculous pleurisy. Hoheisel G, et al. **Respiration** 1997; 64(2):152–8

Designing therapies that target tumor blood vessels [news; comment] Barinaga M. **Science** 1997 Jan 24;275(5299):482–4 . Comment on: Science 1997 Jan 24;275(5299):547–50.

Tumor infarction in mice by antibody-directed targeting of tissue factor to tumor vasculature [see comments] Huang X, et al. **Science** 1997 Jan 24;275(5299):547–50. Comment in: Science 1997 Jan 24;275(5299):482–4.

Plasma levels of the molecular markers of coagulation and fibrinolysis in patients with peripheral arterial disease. Strano A, et al. **Semin Thromb Hemost** 1996;22 Suppl 1:35–40

Molecular Interactions of Thrombin. Tulinsky A. **Semin Thromb Hemost** 1996;22(2):117–24 (47 ref.)

Effects of exercise on blood coagulation, fibrinolysis and platelet aggregation. el-Sayed MS. **Sports Med** 1996 Nov; 22(5):282–98 (121 ref.)

Coagulation studies, factor V Leiden, and anticardiolipin antibodies in 40 cases of cerebral venous thrombosis [see comments] Deschiens MA, et al. **Stroke** 1996 Oct; 27(10):1724–30. Comment in: Stroke 1996 Oct;27(10):1719–20.

Activation of coagulation and fibrinolysis in open and laparoscopic cholecystectomy. Dexter SP, et al. **Surg Endosc** 1996 Nov;10(11):1069–74

Coagulation alterations in patients undergoing elective craniotomy. Heesen M, et al. **Surg Neurol** 1997 Jan; 47(1):35–8

The quality of autotransfused chest-drainage blood after cardiac surgery: a study of coagulation factors. Schulze HJ, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):183–7

Activation of coagulation and fibrinolysis in heatstroke. Bouchama A, et al. **Thromb Haemost** 1996 Dec; 76(6):909–15

Coagulation and fibrinolytic profile of paediatric patients undergoing cardiopulmonary bypass [published erratum appears in Thromb Haemost 1997 May;77(5):1047] Chan AK, et al. **Thromb Haemost** 1997 Feb;77(2):270–7

Mild hyperhomocysteinemia and hemostatic factors in patients with arterial vascular diseases. Freyburger G, et al. **Thromb Haemost** 1997 Mar;77(3):466–71

Normal binding of calcium to five fibrinogen variants with mutations in the carboxy terminal part of the gamma-chain. Furlan M, et al. **Thromb Haemost** 1996 Sep;76(3):377–83

Elevated levels of markers of endothelial cell damage and markers of activated coagulation in patients with systemic necrotizing vasculitis [see comments] Hergesell O, et al. **Thromb Haemost** 1996 Jun;75(6):892–8. Comment in: Thromb Haemost 1997 Mar;77(3):609.

Potentially clinically important inaccuracies in testing for the lupus anticoagulant: an analysis of results from three surveys of the UK National External Quality Assessment Scheme (NEQAS) for Blood Coagulation. Jennings I, et al. **Thromb Haemost** 1997 May;77(5):934–7

Increased tissue factor pathway inhibitor (TFPI) and coagulation in patients with insulin-dependent diabetes mellitus. Leurs PB, et al. **Thromb Haemost** 1997 Mar; 77(3):472–6

Haemostatic variables in Pacific Islanders apparently free from stroke and ischaemic heart disease--the Kitava Study. Lindeberg S, et al. **Thromb Haemost** 1997 Jan;77(1):94–8

Transient global amnesia in a young woman on prolonged treatment with oral contraceptive drugs [letter] Orefice G, et al. **Thromb Haemost** 1996 Jun;75(6):980

Family history of coronary heart disease and hemostatic variables in middle-aged adults. Atherosclerosis Risk in Communities Investigators and Family Heart Study Research Group. Pankow JS, et al. **Thromb Haemost** 1997 Jan;77(1):87–93

Species specific immunoassays to measure blood platelet and coagulation activation in the rat. Ravanat C, et al. **Thromb Haemost** 1996 Dec;76(6):1090–5

Blood coagulation and thrombosis in patients with ovarian malignancy. von Tempelhoff GF, et al. **Thromb Haemost** 1997 Mar;77(3):456–61

Blood clotting activation during normal pregnancy. Comeglio P, et al. **Thromb Res** 1996 Nov 1;84(3):199–202

Coagulation activation in patients undergoing directional coronary atherectomy. Lins M, et al. **Thromb Res** 1997 Jun 15;86(6):433–41

Platelet and blood clotting activation in patients with mitral valve prolapse. Martini F, et al. **Thromb Res** 1996 Aug 15;83(4):299–306

Relationship between changes in F1+2 and TAT levels and blood coagulation early after prosthetic valve replacement. Nakamura K, et al. **Thromb Res** 1997 Apr 15;86(2):161–71

Increased platelet and coagulatory activity indicate ongoing thrombogenesis in peripheral arterial disease. Reininger CB, et al. **Thromb Res** 1996 Jun 15;82(6):523–32

Age-related reference values for activation markers of the coagulation and fibrinolytic systems in children. Ries M, et al. **Thromb Res** 1997 Feb 15;85(4):341–4

The prostacyclin stimulating plasma factor activity improves thromboresistance only if vascular PGI2-production is intact. Sinzinger H, et al. **Thromb Res** 1996 Dec 15; 84(6):475–80

Characterisation of cell-surface procoagulant activities using a microcarrier model. Stephens RW, et al. **Thromb Res** 1996 Dec 15;84(6):453–61

Effects of long travels in sitting position in elderly volunteers on biological markers of coagulation activation and fibrinolysis. Tardy B, et al. **Thromb Res** 1996 Jul 15; 83(2):153–60

Microplate reader--a convenient tool in studies of blood coagulation. Walkowiak B, et al. **Thromb Res** 1997 Jul 1; 87(1):95–103

A mathematical model for the spatio-temporal dynamics of intrinsic pathway of blood coagulation. II. Results. Zarnitsina VI, et al. **Thromb Res** 1996 Dec 1;84(5):333–44

[Effect of estrogens on cell adhesion molecules in thrombophilic states associated with high blood estrogen levels] Marek J, et al. **Cas Lek Cesk** 1997 Jul 30; 136(15):468–72 (Eng. Abstr.) **(Cze)**

[Disorders of anticoagulation and fibrinolysis in monoclonal gammopathies--another mechanism of paraprotein interference with hemostasis] Spička I, et al. **Sb Lek** 1996; 97(3):369–75 (Eng. Abstr.) **(Cze)**

[Hemophilia A in the dog: symptoms, blood coagulation analysis and treatment] Mischke R, et al. **Berl Munch Tierarztl Wochenschr** 1996 Aug;109(8):279–87 (Eng. Abstr.) **(Ger)**

[The "activated coagulation time (ACT)": two simple screening methods for evaluating coagulation disorders in dogs] Glaus T, et al. **Schweiz Arch Tierheilkd** 1996; 138(11):532–6 (Eng. Abstr.) **(Ger)**

[Hemostatic status in subjects with deep venous thrombosis] Ferlito S, et al. **Minerva Cardioangiol** 1996 Dec; 44(12):649–53 (Eng. Abstr.) **(Ita)**

[Coagulation in hemodialysis] Camici M, et al. **Minerva Med** 1996 Nov;87(11):509–14 (Eng. Abstr.) **(Ita)**

[A case of valve thrombosis of CarboMedics prosthesis four years after mitral valve replacement: relationship of anticoagulant therapy to coagulation and fibrinolysis activating factors] Morishita A, et al. **Kyobu Geka** 1996 Oct;49(11):933–7 (Eng. Abstr.) **(Jpn)**

[A coagulation of fibrinolytic study in children with nephrotic syndrome: evaluation of hypercoagulability by measuring with plasmin- alpha 2 plasmin inhibitor complex and FDP D-dimer] Oikawa T, et al. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):144–9 (Eng. Abstr.) **(Jpn)**

[Thrombosis: relation to blood coagulation mechanism] Takahashi H. **Nippon Naika Gakkai Zasshi** 1997 Jun 10; 86(6):883–8 **(Jpn)**

[Recent advances in laboratory test of blood coagulation/fibrinolysis, and its perspectives] Tezono K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:123–8 (11 ref.) **(Jpn)**

[Coagulation disorders as early predictor of brain injury] Takanashi Y, et al. **No To Shinkei** 1996 Nov;48(11):1009–13 (Eng. Abstr.) **(Jpn)**

[Responses to surgical stress in blood coagulation and fibrinolysis, platelet counts and thromboxane B2 after esophageal cancer operation] Shinohara M, et al. **Rinsho Byori** 1997 Feb;45(2):179–84 (Eng. Abstr.) **(Jpn)**

[An adult case of homocystinuria probably due to methylenetetrahydrofolate-reductase deficiency--treatment with folic acid and the course of coagulation-fibrinolysis parameters] Hamano H, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):330–5 (Eng. Abstr.) **(Jpn)**

[Coagulation and fibrinolytic parameters as predictors for small-vessel disease revealed by magnetic resonance imaging of the brain] Kohriyama T, et al. **Rinsho Shinkeigaku** 1996 May;36(5):640–7 (Eng. Abstr.) **(Jpn)**

[Effects of high altitude on changes in blood coagulation in rats during prolonged administration of noradrenaline] Zakharov GA, et al. **Aviakosm Ekolog Med** 1996;30(2):33–7 (Eng. Abstr.) **(Rus)**

[Kinetics of activation of internal pathway of blood coagulation: the threshold effect] Obraztsov IF, et al. **Dokl Akad Nauk** 1996 Aug;349(4):560–1 **(Rus)**

[Time organization of blood coagulation in patients with rheumatic heart disease involving circulation insufficiency] Zaslavskaia RM, et al. **Klin Med (Mosk)** 1996;74(8):25–9 (Eng. Abstr.) **(Rus)**

[The indices of the fibrinolysis, blood coagulation and lipid transport systems in hypertension patients] Sorokin EV, et al. **Ter Arkh** 1996;68(9):19–23 (Eng. Abstr.) **(Rus)**

[The blood coagulating activity in burns] Kotel'nikov VP, et al. **Vestn Khir Im I I Grek** 1996;(1):67–70 (Eng. Abstr.) **(Rus)**

[The role of influenza virus hemagglutinin in blood anticoagulation processes] Zhilinskaia IN, et al. **Vopr Virusol** 1996 Jul-Aug;41(4):179–83 (Eng. Abstr.) **(Rus)**

[Hemostatic system parameters in patients with chronic renal insufficiency and arteriovenous fistula thrombosis] Dimitrijević Z, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:126–7 (Eng. Abstr.) **(Scc)**

[Thrombophilia, prethrombotic conditions, hypercoagulability (editorial)] Rolović Z. **Srp Arh Celok Lek** 1997 Mar-Apr;125(3–4):69–74 (50 ref.) (Eng. Abstr.) **(Scc)**

[Blood coagulation, genetics and post-angioplasty restenosis] García-Ribes M, et al. **Rev Esp Cardiol** 1997 Jan; 50(1):26–30 (Eng. Abstr.) **(Spa)**

[Blood coagulation research scientist in Malmö awarded the Fernström prize] **Lakartidningen** 1996 Oct 16;93(42):3718 **(Swe)**

[Award for the research on blood coagulation. (Björn Dahlbäck)] Lennholm BO. **Lakartidningen** 1996 Nov 27; 93(48):4418–9 **(Swe)**

DRUG EFFECTS

Effect of iodixanol on in vitro bleeding time. Melton LG, et al. **Acad Radiol** 1996 May;3(5):407–11

Effective systemic blockade of endogenous nitric oxide production results in moderate hypertension, reduced sympathetic activity and shortened bleeding time in healthy volunteers. Albert J. **Acta Anaesthesiol Scand Suppl** 1997; 110:159–60

Coagulation protein function. IV. Effect of acetaldehyde upon factor X and factor Xa, the proteins at the gateway to the common coagulation pathway. Brecher AS, et al. **Alcohol** 1996 Nov-Dec;13(6):539–45

Effects of warfarin on markers of hypercoagulability in patients with heart failure. Jafri SM, et al. **Am Heart J** 1997 Jul;134(1):27–36

Effect of warfarin on regional left atrial coagulation activity in mitral stenosis. Peverill RE, et al. **Am J Cardiol** 1997 Feb 1;79(3):339–43

Effect of 3.2% vs 3.8% sodium citrate concentration on

routine coagulation testing. Adcock DM, et al. **Am J Clin Pathol** 1997 Jan;107(1):105–10

Modulation of procoagulant and fibrinolytic system components of mesothelial cells by inflammatory mediators. Sitter T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1256–63

Effects of tromethamine buffer on coagulation variables and ionized calcium concentration in dogs. Moon PF, et al. **Am J Vet Res** 1997 Jul;58(7):777–80

Efficacy and potency of antivenoms in neutralizing the procoagulant effects of Australian snake venoms in dog and human plasma. Sprivulis P, et al. **Anaesth Intensive Care** 1996 Jun;24(3):379–81

Effects of nisoldipine on cytosolic calcium, platelet aggregation, and coagulation/fibrinolysis in patients with coronary artery disease. Fujinishi A, et al. **Angiology** 1997 Jun;48(6):515–21

Differential increased survival of staphylococci and limited ultrastructural changes in the core of infected fibrin clots after daptomycin administration. Michiels MJ, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):203–11

Effect of citrate concentration in specimen collection tubes on the International Normalized Ratio. Danielson CF, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):956–9

Brodifacoum intoxication with marijuana smoking. La Rosa FG, et al. **Arch Pathol Lab Med** 1997 Jan;121(1):67–9

Thrombin inhibition by antithrombin III on the subendothelium is explained by the isoform AT beta. Frebelius S, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct; 16(10):1292–7

Sustained inhibition of whole-blood clot procoagulant activity by inhibition of thrombus-associated factor Xa. McKenzie CR, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct;16(10):1285–91

Decreased whole blood factor IX activity following hemodilution with hemoglobin A-zero in-vitro. Kim MS, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May;25(3):289–95

Reduction of blood activation in patients receiving aprotinin during cardiopulmonary bypass for coronary artery surgery. Baufreton C, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M417–23

Modulation of arterial thrombosis tendency in rats by vitamin K and its side chains. Ronden JE, et al. **Atherosclerosis** 1997 Jul 11;132(1):61–7

Antithrombin-III substitution in preterm infants--effect on intracranial hemorrhage and coagulation parameters. Brangenberg R, et al. **Biol Neonate** 1997;72(2):76–83

Effects of dietary supplementation of lipophilic fraction from Panax ginseng on cGMP and cAMP in rat platelets and on blood coagulation. Park HJ, et al. **Biol Pharm Bull** 1996 Nov;19(11):1434–9

Interactions of poly(lactic acid) and poly(lactic acid-co-ethylene oxide) nanoparticles with the plasma factors of the coagulation system. Sahli H, et al. **Biomaterials** 1997 Feb;18(4):281–8

Interleukin-10 inhibits activation of coagulation and fibrinolysis during human endotoxemia. Pajkrt D, et al. **Blood** 1997 Apr 15;89(8):2701–5

Effects of poloxamer 407 on the assembly, structure and dissolution of fibrin clots. Carr ME Jr, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):109–13

In vitro comparison of the effects of contrast media on coagulation and platelet activation. Corot C, et al. **Blood Coagul Fibrinolysis** 1996 Sep;7(6):602–8

A thromboelastography study on the in vitro effects of L-arginine and L-NG-nitro arginine methyl ester on human whole blood coagulation and fibrinolysis. Dambisya YM, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):678–83

Effects of the platelet-activating factor receptor antagonist WEB 2086 on whole blood coagulation and fibrinolysis in a thromboelastography assay. Dambisya YM, et al. **Blood Coagul Fibrinolysis** 1995 Dec;6(8):733–7

Heparin cofactor II-dependent antithrombin activity of calcium spirulan. Hayakawa Y, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):554–60

The antithrombotic effects of recombinant human soluble thrombomodulin (rhsTM) on tissue factor-induced disseminated intravascular coagulation in crab-eating monkeys (Macaca fascicularis). Mohri M, et al. **Blood Coagul Fibrinolysis** 1997 Jul;8(5):274–83

Hypercoagulability and high lipoprotein(a) levels in patients with aplastic anemia receiving cyclosporine. Morishita E, et al. **Blood Coagul Fibrinolysis** 1996 Sep;7(6):609–14

A proposed model to monitor heparin therapy using the concentrated thrombin time which allows standardisation of reagents and improved estimation of heparin concentrations. Ray MJ, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):515–21

Reduction of plasma clot stability by a novel factor XIIIa inhibitor from the Giant Amazon Leech, Haementeria ghilianii. Wallis RB, et al. **Blood Coagul Fibrinolysis** 1997 Jul;8(5):291–5

Treatment of hepatic veno-occlusive disease with low-dose tissue plasminogen activator: impact on coagulation profile. Goldberg SL, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):633–6

Effect of progressive haemodilution with hydroxyethyl starch, gelatin and albumin on blood coagulation. Egli GA, et al. **Br J Anaesth** 1997 Jun;78(6):684–9

Evolution of blood coagulation and fibrinolysis parameters after abrupt versus gradual withdrawal of acenocoumarol in patients with venous thromboembolism: a double-blind randomized study. Tardy B, et al. **Br J Haematol** 1997 Jan;96(1):174–8

Coagulation alterations due to local fibrinolytic therapy with recombinant tissue-type plasminogen activator (rt-PA) in patients with peripheral arterial occlusive disease. Rauber K, et al. **Cardiovasc Intervent Radiol** 1997 May-Jun; 20(3):169–73

Venous activated clotting time after intra-arterial heparin: effect of site of administration and timing of sampling. Kerensky RA, et al. **Cathet Cardiovasc Diagn** 1996 Feb; 37(2):151–3

When we "act" on ACT levels: activated clotting time measurements to guide heparin administration during and after interventional procedures [editorial] Klein LW, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):154–7

Is use of aprotinin safe with deep hypothermic circulatory arrest in aortic surgery? Investigations on blood coagulation. Okita Y, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II177–81

Inhibition of tissue factor-mediated coagulation markedly attenuates stenosis after balloon-induced arterial injury in minipigs. Oltrona L, et al. **Circulation** 1997 Jul 15; 96(2):646–52

The human pharmacology of thrombin inhibition [published erratum appears in Coron Artery Dis 1997 Jan;8(1):A4] FitzGerald GA. **Coron Artery Dis** 1996 Dec;7(12):911–8 (108 ref.)

Half-dose aprotinin does not affect haemorheological properties in patients undergoing bypass surgery. Liu B, et al. **Coron Artery Dis** 1996 Aug;7(8):609–13

Effects of unsaturated fatty acids on blood clotting and fibrinolysis. Sanders TA. **Curr Opin Lipidol** 1996 Feb; 7(1):20–3 (12 ref.)

Induction of coagulation effects by Wyeth-14,643 in Crl:CD BR rats. Hurtt ME, et al. **Drug Chem Toxicol** 1997 Feb-May;20(1-2):1–10

Dalteparin sodium. A review of its pharmacology and clinical use in the prevention and treatment of thromboembolic disorders. Dunn CJ, et al. **Drugs** 1996 Aug;52(2):276–305 (118 ref.)

Dose dependent effect of aprotinin on rate of clot formation. De Hert SG, et al. **Eur J Anaesthesiol** 1996 Sep;13(5):463–7

Acute haemodilution and prostaglandin E1-induced hypotension: effects on the coagulation-fibrinolysis system. Fukusaki M, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):443–9

Evaluation of the anticoagulant properties of aprotinin in vitro. Mortier E, et al. **Eur J Anaesthesiol** 1996 Sep; 13(5):468–70

Complete heparin-coated (CBAS) cardiopulmonary bypass and reduced systemic heparin dose; effects on coagulation and fibrinolysis. Ovrum E, et al. **Eur J Cardiothorac Surg** 1996;10(6):449–55

The effects of propranolol hydrochloride singularly or in conjunction with ethanol on clotting activity in the rat. Lox CD. **Gen Pharmacol** 1996 Mar;27(2):211–13

Aspirin related gastrointestinal bleeders have an exaggerated bleeding time response due to aspirin use. Lanas AI, et al. **Gut** 1996 Nov;39(5):654–60

Effect of dermatan sulphate on activated partial thromboplastin time determined with different reagents. Iorio A, et al. **Haemostasis** 1997 Mar-Apr;27(2):85–90

Influence of recombinant hirudin on tissue-factor-induced activation of coagulation in rabbits. Kouz J, et al. **Haemostasis** 1996 Jul-Aug;26(4):179–86

Anticoagulant effect of unfractionated heparin in antithrombin-depleted plasma in vitro. Krulder JW, et al. **Haemostasis** 1996 Mar-Apr;26(2):85–9

A recombinant hirudin (IK-HIR02) in healthy volunteers. I. Effects on coagulation parameters and bleeding time. Schenk JF, et al. **Haemostasis** 1996 May-Jun;26(3):140–9

Activation of the contact and fibrinolytic systems after intravenous administration of endotoxin to normal human volunteers: correlation with the cytokine profile. DeLa Cadena RA, et al. **Immunopharmacology** 1996 Jun; 33(1-3):231–7 (30 ref.)

Heparin-coated devices and high-dose aprotinin optimally inhibit contact system activation in an in vitro cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May;32(1-3):128–30

Influence of heparin, heparin plus aprotinin and hirudin on contact activation in a cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May; 32(1-3):57–61

A cross-over study of a new low molecular weight heparin (Logiparin) in hemodialysis. Koutsikos D, et al. **Int J Artif Organs** 1996 Aug;19(8):467–71

Radiographic contrast media and the coagulation and complement systems. Hoffmeister HM, et al. **Invest Radiol** 1996 Sep;31(9):591–5 (44 ref.)

Influence of contrast media on blood coagulation. Krause W, et al. **Invest Radiol** 1997 May;32(5):249–59

The effects of varying dietary n-6 to n-3 fatty acid ratios on platelet reactivity, coagulation screening assays, and antithrombin III activity in dogs. Boudreaux MK, et al. **J Am Anim Hosp Assoc** 1997 May-Jun;33(3):235–43

Platelet-dependent thrombin generation in patients with hyperlipidemia. Aoki I, et al. **J Am Coll Cardiol** 1997 Jul; 30(1):91–6

Medicinal leeches: ancient therapy is a source of biotech drugs. Piascik P. **J Am Pharm Assoc (Wash)** 1997 May-Jun; NS37(3):285–6 (0 ref.)

Ex vivo and in vivo evaluation of the blood compatibility of surface-modified polyurethane catheters. Inoue H, et al. **J Biomed Mater Res** 1997 May;35(2):255–64

Restoration of the normal coagulation process: advances in therapies to antagonize heparin. D'Ambra M. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:S58–62 (40 ref.)

Antithrombin III prevents renal dysfunction and hypertension induced by enhanced intravascular coagulation in pregnant rats: pharmacological confirmation of the benefits of treatment with antithrombin III in preeclampsia. Shinyama H, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):702–11

Anticoagulant synergism of heparin and activated protein C in vitro. Role of a novel anticoagulant mechanism of heparin, enhancement of inactivation of factor V by activated protein C. Petäjä J, et al. **J Clin Invest** 1997 Jun 1;99(11):2655–63

Blood coagulation during adjuvant epirubicin/cyclophosphamide chemotherapy in patients with primary operable breast cancer. von Tempelhoff GF, et al. **J Clin Oncol** 1996 Sep;14(9):2560–8

Pharmacodynamic models to evaluate antithrombotics in clinical pharmacology. Müller TH. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):49S–58S (77 ref.)

Epinephrine exerts anticoagulant effects during human endotoxemia. van der Poll T, et al. **J Exp Med** 1997 Mar 17;185(6):1143–8

Moderate beer consumption and the blood coagulation in patients with coronary artery disease. Gorinstein S, et al. **J Intern Med** 1997 Jan;241(1):47–51

The effect of levenogesterol (Norplant) contraception on coagulation as measured by antithrombin-III levels. Pryor JA, et al. **J Miss State Med Assoc** 1996 Oct;37(10):777–9

Ability of different flavonoids to inhibit the procoagulant activity of adherent human monocytes. Lale A, et al. **J Nat Prod** 1996 Mar;59(3):273–6

A peptide derivative (1-70 fragment) of protein SV-IV accelerates human blood coagulation in vitro by selective inhibition of the heparin-induced antithrombin III activation process. Di Micco B, et al. **J Pept Res** 1997 Feb;49(2):174–82

Daily supplementation with MaxEPA suppresses endotoxin-inducible monocytic procoagulation in dogs. Chu AJ, et al. **J Surg Res** 1997 Jul 15;71(1):93–9

Effects of two injectable anesthetic agents on coagulation assays in the rat. Stringer SK, et al. **Lab Anim Sci** 1996 Aug;46(4):430–3

Antithrombotic and antifibrinolytic effects of antithrombin III replacement in liver cirrhosis [letter] Carmassi F, et al. **Lancet** 1997 Apr 12;349(9058):1069

Clot formation and gelatin-based plasma substitutes [letter; comment] Ruttmann TG, et al. **Lancet** 1996 Nov 2; 348(9036):1249–50. Comment on: Lancet 1996 Jun 22;347(9017):1763.

The effect of dietary arachidonic acid on platelet function, platelet fatty acid composition, and blood coagulation in humans. Nelson GJ, et al. **Lipids** 1997 Apr;32(4):421–5

The effects of gemfibrozil upon the hypercoagulable state in dyslipidaemic patients with chronic renal failure. Irish AB, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2223–8

Low-dose intranasal desmopressin (DDAVP) for uremic bleeding [letter] Ozen S, et al. **Nephron** 1997;75(1):119–20

Nafamostat mesilate, a synthetic protease inhibitor, attenuated hypercoagulability in a canine model of hemorrhagic shock. Koido Y, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb;64(1):9–15

Estrogen replacement therapy and coagulation: relationship to lipid and lipoprotein changes. Kessler CM, et al. **Obstet Gynecol** 1997 Mar;89(3):326–31

Effect of troxerutin on laser-induced thrombus formation in rat mesenteric vessels, coagulation parameters and platelet function. Krupiński K, et al. **Pol J Pharmacol** 1996 May-Jun;48(3):335–9

Dose-related effects of low dose aspirin on hemostasis parameters and prostacyclin/thromboxane ratios in late pregnancy. Martin C, et al. **Prostaglandins** 1996 May; 51(5):321–30

Large-scale expression, purification and characterization of small fragments of thrombomodulin: the roles of the sixth domain and of methionine 388. White CE, et al. **Protein Eng** 1995 Nov;8(11):1177–87

Effects of sex steroid hormones on lipoproteins, clotting, and the arterial wall. Knopp RH, et al. **Semin Reprod Endocrinol** 1996 Feb;14(1):15–27 (112 ref.)

Which glycosaminoglycans are suitable for antithrombogenic or athrombogenic coatings of biomaterials? Part II: Covalently immobilized endothelial cell surface heparan sulfate (ESHS) and heparin (HE) on synthetic polymers and results of animal experiments. Baumann H, et al. **Semin Thromb Hemost** 1997;23(2):215–23

Which glycosaminoglycans are suitable for antithrombogenic or athrombogenic coatings of biomaterials? Part I: Basic concepts of immobilized GAGs on partially cationized cellulose membrane. Baumann H, et al. **Semin Thromb Hemost** 1997;23(2):203–13

Comparison of the anticoagulant activities of thrombin inhibitors as assessed by thromboelastographic analysis. Callas D, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:76–9

The approach of thromboelastography in the monitoring of new synthetic antithrombotic agents, GL-522 and GL-2021. Iqbal O, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:72–5

Procoagulant and anticoagulant effects of intravascular contrast media as assessed by thromboelastography. Iqbal O, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:86–90

Thromboelastographic analysis of patients receiving aprotinin with comparisons to platelet aggregation and other assays. Koza MJ, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:80–5

Molecular and functional properties of fetal plasminogen and its possible influence on clot lysis in the neonatal period. Ries M. **Semin Thromb Hemost** 1997;23(3):247–52 (60 ref.)

Platelet aggregation and coagulation inhibitors in leech saliva and their roles in leech therapy. Rigbi M, et al. **Semin Thromb Hemost** 1996;22(3):273–8

The influence of C1–esterase inhibitor substitution on coagulation and cardiorespiratory parameters in an endotoxin–induced rabbit model of hypercoagulability. Scherer RU, et al. **Semin Thromb Hemost** 1996;22(4):357–66

Thromboelastographic modifications induced by intravenous and subcutaneous heparin administration. Traverso CI, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:53–8 (47 ref.)

Role of thromboelastography in evaluating other anticoagulant agents: warfarin and heparin–dihydroergotamine. Traverso CI, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:59–62 (12 ref.)

Ancrod: understanding the agent. Illig KA, et al. **Semin Vasc Surg** 1996 Dec;9(4):303–14 (95 ref.)

Heparin reverses the procoagulant properties of stimulated endothelial cells. Cadroy Y, et al. **Thromb Haemost** 1996 Jan;75(1):190–5

Experimental pharmacology of hirunorm: a novel synthetic peptide thrombin inhibitor. Cirillo R, et al. **Thromb Haemost** 1996 Sep;76(3):384–92

More effective suppression of hemostatic system activation in patients undergoing cardiac surgery by heparin dosing based on heparin blood concentrations rather than ACT. Despotis GJ, et al. **Thromb Haemost** 1996 Dec;76(6):902–8

Fibrinolytic and coagulant responses to regional limb perfusions of tumor necrosis factor, interferon–gamma, and/or melphalan. Merryman P, et al. **Thromb Haemost** 1997 Jan;77(1):53–6

Augmented procoagulant activity in cancer patients, treated with recombinant interferon–gamma in addition to recombinant tumor necrosis factor–alpha and melphalan. Mulder AB, et al. **Thromb Haemost** 1996 Dec;76(6):897–901

Coagulation and fibrinolysis factors in healthy subjects consuming high stearic or trans fatty acid diets. Mutanen M, et al. **Thromb Haemost** 1997 Jan;77(1):99–104

Differential effects of reconstituted high–density lipoprotein on coagulation, fibrinolysis and platelet activation during human endotoxemia. Pajkrt D, et al. **Thromb Haemost** 1997 Feb;77(2):303–7

High purity factor IX and prothrombin complex concentrate (PCC): pharmacokinetics and evidence that factor IXa is the thrombogenic trigger in PCC. Philippou H, et al. **Thromb Haemost** 1996 Jul;76(1):23–8

Increased levels of activated factor VII and decreased plasma protein S activity and circulating thrombomodulin during use of oral contraceptives. Quehenberger P, et al. **Thromb Haemost** 1996 Nov;76(5):729–34

Interleukin–6 stimulates coagulation, not fibrinolysis, in humans. Stouthard JM, et al. **Thromb Haemost** 1996 Nov; 76(5):738–42

Fat emulsion infusion potentiates coagulation activation during human endotoxemia. van der Poll T, et al. **Thromb Haemost** 1996 Jan;75(1):83–6

Long–term follow–up of hemostatic molecular markers during remission induction therapy with all–trans retinoic acid for acute promyelocytic leukemia. Keio Hematology–Oncology Cooperative Study Group (KHOCS). Watanabe R, et al. **Thromb Haemost** 1997 Apr; 77(4):641–5

Are the pharmacokinetic parameters of low molecular weight heparins predictive of their clinical efficacy? Andrassy K, et al. **Thromb Res** 1996;81(2 Suppl):S29–38 (25 ref.)

Inhibition of blood coagulation activation and oral anticoagulants in patients with mechanical heart valve prostheses. Barcellona D, et al. **Thromb Res** 1996 Feb 1; 81(3):403–6

Comparison of the anticoagulant action of sulfated and phosphorylated polysaccharides. Dace R, et al. **Thromb Res** 1997 Jul 1;87(1):113–21

In vitro effects of rt–PA on platelet function and clot strength. D'Amico EA, et al. **Thromb Res** 1997 Mar 15; 85(6):519–22

Preclinical studies on a low molecular weight heparin. Fareed J, et al. **Thromb Res** 1996;81(2 Suppl):S1–27

Treatment with LMWHs inhibits factor VIIa generation during in vitro coagulation of whole blood. Gerotziafas GT, et al. **Thromb Res** 1996 Feb 15;81(4):491–6

Tissue factor pathway inhibitor in complex with low density lipoprotein isolated from human plasma does not possess anticoagulant function in tissue factor–induced coagulation in vitro. Hansen JB, et al. **Thromb Res** 1997 Mar 1; 85(5):413–25

Effects of a highly selective synthetic inhibitor of plasma kallikrein on disseminated intravascular coagulation in rats. Katsuura Y, et al. **Thromb Res** 1996 May 15;82(4):361–8

DHG, a new depolymerized holothurian glycosaminoglycan, exerts an antithrombotic effect with less bleeding than unfractionated or low molecular weight heparin, in rats. Kitazato K, et al. **Thromb Res** 1996 Oct 15;84(2):111–20

Diluted Russell's viper venom time and colloidal silica clotting time for the identification of the phospholipid–dependent inhibitors of coagulation. Norbis F, et al. **Thromb Res** 1997 Mar 1;85(5):427–31

Activation of coagulation and fibrinolysis despite heparinization during successful elective coronary angioplasty. Peltonen S, et al. **Thromb Res** 1996 Jun 15; 82(6):459–68

Effects of estrogen replacement therapy on thrombin generation. Pinto S, et al. **Thromb Res** 1997 Feb 1; 85(3):185–93

Effect of bezafibrate on hypercoagulability assessed by fluorogenic prothrombin time in hyperlipidemic patients with non–insulin–dependent diabetes mellitus. Yoshinari M, et al. **Thromb Res** 1997 Jun 15;86(6):443–51

In vitro paraoxon (E 600) exposure: no activating effect on human blood coagulation. Petroianu G, et al. **Toxicology** 1997 Apr 30;119(2):167–73

Procoagulant and platelet–aggregating properties of cerastocytin from Cerastes cerastes venom. Marrakchi N, et al. **Toxicon** 1997 Feb;35(2):261–72

Isolation and partial characterization of a prothrombin–activating enzyme from the venom of the Australian rough–scaled snake (Tropidechis carinatus). Marsh NA, et al. **Toxicon** 1997 Apr;35(4):563–71

The coagulo–lytic system and endothelial function in cyclosporine–treated kidney allograft recipients. Malyszko J, et al. **Transplantation** 1996 Sep 27;62(6):828–30

[Medetomidine] Hellebrekers LJ. **Tijdschr Diergeneeskd** 1996 Nov 1;121(21):634 **(Dut)**

[The effects of aprotinin. Blood loss and coagulation parameters in orthotopic liver transplantation: A clinical–experimental, prospective and randomized double–blind study] Kratzer MA, et al. **Anaesthesist** 1997 Apr;46(4):294–302 (Eng. Abstr.) **(Ger)**

[Activation of blood coagulation and fibrinolysis after angiocardiography with ionic and non–ionic contrast media] Winkler UH, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):539–43 (Eng. Abstr.) **(Ger)**

[Adjuvant CMF chemotherapy in patients with breast cancer––results on blood coagulation and fibrinolysis] Oberhoff C, et al. **Zentralbl Gynakol** 1997;119(5):211–7 (Eng. Abstr.) **(Ger)**

[Effect of heparin–supplemented iopamidol on the blood coagulation] Kawai J, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):874–6 (Eng. Abstr.) **(Jpn)**

[The effect of magnesium on blood coagulation––state of the art literature review from 1959 to 1995] Sacha T, et al. **Przegl Lek** 1997;54(2):122–5 (20 ref.) (Eng. Abstr.) **(Pol)**

[Effect of the nerve growth factor on blood coagulation and fibrinolysis] Isanbaev ChI, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):45–7 (Eng. Abstr.) **(Rus)**

[The effect of the chronic internal administration of the new Russian n–3 polyunsaturated fatty acid concentrate––epaden––on blood coagulation system indices in rabbits] Petrukhina GN, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):37–41 (Eng. Abstr.) **(Rus)**

[The effect of n–3 polyunsaturated fatty acids on the blood coagulation system] Petrukhina GN, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):76–88 (322 ref.) (Eng. Abstr.) **(Rus)**

[The effect of renal polypeptides on blood coagulation and lipid peroxidation in acute emotional–pain stress] Kaidashev IP. **Fiziol Zh** 1996;42(5–6):39–44 (Eng. Abstr.) **(Ukr)**

GENETICS

Molecular genetics of the fibrinolytic and coagulation systems in haemostasis, thrombogenesis, restenosis and atherosclerosis. Carmeliet P, et al. **Curr Opin Lipidol** 1997 Apr;8(2):118–25 (46 ref.)

Elevated levels of soluble thrombomodulin in plasma from children with Arg 506 to Gln mutation in the factor V gene. Nowak–Göttl U, et al. **Eur J Haematol** 1997 Jan; 58(1):51–5

Genetic analysis of the plasminogen and coagulation system in mice. Carmeliet P, et al. **Haemostasis** 1996 Oct;26 Suppl 4:132–53 (106 ref.)

Abnormalities of coagulation and fibrinolysis in homozygous sickle cell disease. Nsiri B, et al. **Hematol Cell Ther** 1996 Jul;38(3):279–84

Inherited thrombophilias [editorial] Laffan MA, et al. **QJM** 1997 Jun;90(6):375–8

Gene manipulation and transfer of the plasminogen and coagulation system in mice. Carmeliet P, et al. **Semin Thromb Hemost** 1996;22(6):525–42 (131 ref.)

Location on the human genetic linkage map of 26 genes involved in blood coagulation. Koeleman BP, et al. **Thromb Haemost** 1997 May;77(5):873–8

IMMUNOLOGY

Monitoring oral anticoagulation in patients with "strong" lupus anticoagulant. Present situation in France. Goudemand J, et al. **Ann Med Interne (Paris)** 1996 Sep; 147 Suppl 1:36–7

The role of hemolymph coagulation in innate immunity. Muta T, et al. **Curr Opin Immunol** 1996 Feb;8(1):41–7 (48 ref.)

Role of phagocytosis in activation of the coagulation system in Streptococcus sanguis endocarditis. Bancsi MJ, et al. **Infect Immun** 1996 Dec;64(12):5166–70

Autoantibodies and pregnancy loss [editorial; comment] Cowchock S. **N Engl J Med** 1997 Jul 17;337(3):197–8. Comment on: N Engl J Med 1997 Jul 17;337(3):148–50. Comment on: N Engl J Med 1997 Jul 17;337(3):154–60.

Pregnancy loss in the antiphospholipid–antibody syndrome––a possible thrombogenic mechanism [see comments] Rand JH, et al. **N Engl J Med** 1997 Jul 17; 337(3):154–60. Comment in: N Engl J Med 1997 Jul 17;337(3):197–8.

Coagulation– and fibrinolysis–related antigens in plasma and dialysate of CAPD patients. Goedde M, et al. **Perit Dial Int** 1997 Mar–Apr;17(2):162–6

Different anticoagulant and immunological properties of anti–prothrombin antibodies in patients with antiphospholipid antibodies. Galli M, et al. **Thromb Haemost** 1997 Mar;77(3):486–91

Hemostatic abnormalities in inflammatory bowel disease. Chiarantini E, et al. **Thromb Res** 1996 Apr 15;82(2):137–46

[Anticoagulating activity of natural cardiolipin antibodies] Ziablitskiĭ VM, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):197–9 **(Rus)**

PHYSIOLOGY

The role of the coagulation cascade in brain edema formation after intracerebral hemorrhage. Lee KR, et al. **Acta Neurochir (Wien)** 1996;138(4):396–400; discussion 400–1

Local wound and systemic coagulation/fibrinolysis responses in hip arthroplasty. Influence of allogeneic and autologous blood transfusion. Kristiansson ME, et al. **Acta Orthop Scand** 1997 Jun;68(3):221–4

Tissue factor in crescentic glomerulonephritis [comment] McCluskey RT. **Am J Pathol** 1997 Mar;150(3):787–92 (64 ref.). Comment on: Am J Pathol 1997 Mar;150(3):873–80.

Role of tissue factor in intra–alveolar fibrin deposition and coagulopathy associated with pneumonic pasteurellosis in cattle. Rashid J, et al. **Am J Vet Res** 1997 Jan;58(1):28–33

Pro–thrombotic effects of a folic acid deficient diet in rat platelets and macrophages related to elevated homocysteine and decreased n–3 polyunsaturated fatty acids. Durand P, et al. **Atherosclerosis** 1996 Apr 5;121(2):231–43

Potent blood coagulant activity of human semen due to prostasome–bound tissue factor. Fernández JA, et al. **Biol Reprod** 1997 Mar;56(3):757–63

Blood clotting in minimally altered whole blood. Rand MD, et al. **Blood** 1996 Nov 1;88(9):3432–45

Blood coagulation and fibrinolysis at rest and in response to maximal exercise before and after a physical conditioning programme. El–Sayed MS, et al. **Blood Coagul Fibrinolysis** 1995 Dec;6(8):747–52

Probable regulation of factor VIIa–tissue factor and prothrombinase by factor Xa–TFPI and TFPI in vivo. Gouin–Thibault I, et al. **Br J Haematol** 1996 Dec; 95(4):738–46

Changes in coagulation and fibrinolysis in childhood ALL: a two–step dose reduction of one E. coli asparaginase preparation. Nowak–Göttl U, et al. **Br J Haematol** 1996 Oct;95(1):123–6

In vivo coagulation activation following infusion of highly purified factor XI concentrate. Richards EM, et al. **Br J Haematol** 1997 Feb;96(2):293–7

Coagulation and fibrinolytic responses of human peritoneal fluid and plasma to bacterial peritonitis. van Goor H, et al. **Br J Surg** 1996 Aug;83(8):1133–5

Percutaneous transluminal coronary angioplasty: comparison of arterial vs. venous activated clotting time. Pesola GR, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):140–4

Activated clotting time differential is a superior method of monitoring anticoagulation following coronary angioplasty. Pitney MR, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):145–50

Temporal relation between ischemic episodes and activation of the coagulation system in unstable angina. Biasucci LM, et al. **Circulation** 1996 Jun 15;93(12):2121–7

Morning hypercoagulability and hypofibrinolysis. Diurnal variations in circulating activated factor VII, prothrombin fragment F1+2, and plasmin–plasmin inhibitor complex. Kapiotis S, et al. **Circulation** 1997 Jul 1;96(1):19–21

How does the coagulation system really work and why should we care? [editorial] Sobel BE. **Coron Artery Dis** 1997 Feb;8(2):113

Procoagulant activity on injured arteries and associated thrombi is mediated primarily by the complex of tissue factor and factor VIIa. Speidel CM, et al. **Coron Artery Dis** 1996 Jan;7(1):57–62

Systemic activation of coagulation and fibrinolysis during varicose vein stripping. Böhler K, et al. **Dermatol Surg** 1997 Jan;23(1):46–50

Protein C activation in NIDDM patients. Gabazza EC, et al. **Diabetologia** 1996 Dec;39(12):1455–61

Coagulation and platelet activation pathways. A review of the key components and the way in which these can be manipulated. Büller HR, et al. **Eur Heart J** 1995 Nov;16 Suppl L:8–10

Coagulation and fibrinolysis activation markers in prostatic carcinoma patients. Geenen RW, et al. **Eur J Clin Chem Clin Biochem** 1997 Feb;35(2):69–72

The cytokine–mediated imbalance between coagulant and anticoagulant mechanisms in sepsis and endotoxaemia. Levi M, et al. **Eur J Clin Invest** 1997 Jan;27(1):3–9 (56 ref.)

Coagulation and fibrinolysis changes in normal pregnancy. Increased levels of procoagulants and reduced levels of

inhibitors during pregnancy induce a hypercoagulable state, combined with a reactive fibrinolysis. Cerneca F, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):31–6

Procoagulant activity of mononuclear cells is increased in myeloproliferative and myelodysplastic diseases. Bazzan M, et al. **Haemostasis** 1996 May–Jun;26(3):157–63

Inhibition of tissue factor and cytokine release. Gray E, et al. **Haemostasis** 1996;26 Suppl 1:92–5 (12 ref.)

Celis and the activation of factor VII. Rao LV, et al. **Haemostasis** 1996;26 Suppl 1:1–5 (20 ref.)

Prothrombin time standardization by correction of the Pivka inhibitor. Talstad I. **Haemostasis** 1996 Sep–Oct; 26(5):266–75

Monocyte/macrophage regulation of coagulant events. Tracy PB, et al. **Haemostasis** 1996;26 Suppl 1:6–11

Coagulation and fibrinolysis in primary biliary cirrhosis compared with other liver disease and during orthotopic liver transplantation. Segal H, et al. **Hepatology** 1997 Mar; 25(3):683–8

Activation of the complement, coagulation, fibrinolytic and kallikrein–kinin systems during attacks of hereditary angioedema. Nielsen EW, et al. **Immunopharmacology** 1996 Jun;33(1–3):359–60

Involvement of enhanced coagulation and fibrinolysis system in induction of atherosclerosis in hyperlipidemic rabbits fed on a high cholesterol diet. Ichino K, et al. **In Vivo** 1997 Mar–Apr;11(2):115–23

Hemostatic profile in nephrotic syndrome. Anand NK, et al. **Indian Pediatr** 1996 Dec;33(12):1005–12

Increased platelet and coagulatory activity in peripheral atherosclerosis flow mediated platelet function is a sensitive and specific disease indicator. Reininger CB, et al. **Int Angiol** 1996 Dec;15(4):335–43

Relationship between job stress and plasma fibrinolytic activity in male Japanese workers. Ishizaki M, et al. **Int Arch Occup Environ Health** 1996;68(5):315–20

Thromboembolic phenomena and the use of the pig as an appropriate animal model for research on cardiovascular devices. Gross DR. **Int J Artif Organs** 1997 Apr; 20(4):195–203 (89 ref.)

Qualitative modeling of normal blood coagulation and its pathological states using stochastic activity networks. Mounts WM, et al. **Int J Biol Macromol** 1997 Jul; 20(4):265–81

Effect of endurance training and seasonal fluctuation on coagulation and fibrinolysis in young sedentary men. van den Burg PJ, et al. **J Appl Physiol** 1997 Feb;82(2):613–20

Fibrinogen binding and platelet retention: relationship with the thrombogenicity of catheters. Bailly AL, et al. **J Biomed Mater Res** 1996 Jan;30(1):101–8

Human endothelial cell growth and coagulant function varies with respect to interfacial properties of polymeric substrates. Kottke-Marchant K, et al. **J Biomed Mater Res** 1996 Feb;30(2):209–20

The role of the pulmonary circulation in the regulation of coagulation and fibrinolysis in relation to major surgery. Dahl OE. **J Cardiothorac Vasc Anesth** 1997 May; 11(3):322–8 (42 ref.)

Restoration of the normal coagulation process: advances in therapies to antagonize heparin. D'Ambra M. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:S58–62 (40 ref.)

Ischemia—a coagulation problem? Spiess BD. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:S38–41 (19 ref.)

Template for rapid analysis of the Sonoclot Signature. Lyew MA, et al. **J Clin Monit** 1997 Jul;13(4):273–7

Amyloid beta-protein precursor: a new anticoagulant? [editorial; comment] Schmaier AH. **J Lab Clin Med** 1997 Jul;130(1):5–7. Comment on: J Lab Clin Med 1997 Jul;130(1):21–32.

Cringle conundrums, clotting, cholesterol, and coronaries. Luft FC. **J Mol Med** 1996 Nov;74(11):637–8

Low dietary protein impairs blood coagulation in BHE/cdb rats. Chang YL, et al. **J Nutr** 1997 Jul;127(7):1279–83

Relationship between intracoronary thrombolysis and fibrino-coagulation—special reference to TAT/PIC and FPA/PIC. Uenomachi H, et al. **Jpn Circ J** 1996 Mar; 60(3):149–56

Evaluation of blood coagulation-fibrinolysis system in patients receiving chronic hemodialysis. Ishii Y, et al. **Nephron** 1996;73(3):407–12

Congenital factor VII deficiency presenting as delayed bleeding following dental extraction. A review of the role of factor VII in coagulation. Wei DC, et al. **Pathology** 1997 May;29(2):234–7

Differences in blood activation related to roller/centrifugal pumps and heparin-coated/uncoated surfaces in a cardiopulmonary bypass model circuit. Moen O, et al. **Perfusion** 1996 Mar;11(2):113–23

The anticoagulated patient. Rauck RL. **Reg Anesth** 1996 Nov–Dec;21(6 Suppl):51–6 (28 ref.)

On the regulation of monocyte tissue factor expression and activation of the coagulation cascade—cell studies and clinical studies on patients undergoing heart surgery and patients with unstable angina. Ernofsson M. **Scand Cardiovasc J** 1997;31(4):249–50

Introduction: hypercoagulable states. Bertina RM. **Semin Hematol** 1997 Jul;34(3):167–70 (31 ref.)

Determinants of substrate specificity for factor XIII. McDonagh J, et al. **Semin Thromb Hemost** 1996; 22(5):369–76 (47 ref.)

Impaired bacterial clearance after activation of the complement and coagulation systems. Koch T, et al. **Shock** 1997 Jan;7(1):42–8

What the neurosurgeon needs to know about the coagulation system. Heesen M, et al. **Surg Neurol** 1997 Jan;47(1):32–4 (8 ref.)

Anticoagulant properties of the vascular endothelium. Bombeli T, et al. **Thromb Haemost** 1997 Mar;77(3):408–23 (304 ref.)

The structural basis of function of the TF. VIIa complex in the cellular initiation of coagulation. Edgington TS, et al. **Thromb Haemost** 1997 Jul;78(1):401–5 (30 ref.)

Modulation of thrombin and heparin activities by fibrin. Hogg PJ, et al. **Thromb Haemost** 1997 Mar;77(3):424–33 (70 ref.)

Pre- and postoperative state of coagulation and fibrinolysis in plasma of patients with benign and malignant colorectal disease—a preliminary study. Iversen LH, et al. **Thromb Haemost** 1996 Oct;76(4):523–8

The coagulation and fibrinolytic responses of baboons after in vivo thrombin generation—effect of interleukin 6. Kruithof EK, et al. **Thromb Haemost** 1997 May; 77(5):905–10

Modulation of thrombin's procoagulant and anticoagulant properties. Leung LL, et al. **Thromb Haemost** 1997 Jul; 78(1):577–80 (16 ref.)

Current status of activation markers in ischemic heart disease: markers of coagulation activation. Merlini PA, et al. **Thromb Haemost** 1997 Jul;78(1):276–9 (40 ref.)

Thrombin, thrombomodulin and TAFI in the molecular link between coagulation and fibrinolysis. Nesheim M, et al. **Thromb Haemost** 1997 Jul;78(1):386–91 (50 ref.)

The ability of thrombin inhibitors to reduce the thrombin activity generated in plasma on extrinsic and intrinsic activation. Prasa D, et al. **Thromb Haemost** 1997 Mar; 77(3):498–503

Assessment of bleeding for the evaluation of therapeutic preparations in small animal models of antibody-induced hemophilia and von Willebrand disease. Turecek PL, et al. **Thromb Haemost** 1997 Mar;77(3):591–9

Thrombin–inhibitor complexes in the blood during and after delivery. Andersson T, et al. **Thromb Res** 1996 Apr 15; 82(2):109–17

Activation of coagulation but normal fibrinolysis in patients with type IIA hyperlipoproteinemia. Avellone G, et al. **Thromb Res** 1996 Jan 15;81(2):277–82

Short-time stability of markers of coagulation and fibrinolysis in frozen plasma [published erratum appears in Thromb Res 1996 Apr 15;82(2):199] Iversen LH, et al. **Thromb Res** 1996 Jan 15;81(2):253–61

Short-time stability of markers of coagulation and fibrinolysis in frozen plasma. [correction] Iverson LH, et al. **Thromb Res** 1996 Apr 15;82(2):199

A mathematical model for the spatio-temporal dynamics of intrinsic pathway of blood coagulation. I. The model description. Zarnitsina VI, et al. **Thromb Res** 1996 Nov 15;84(4):225–36 (27 ref.)

Platelets and coagulation. An update. Boudreaux MK. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1065–87 (161 ref.)

[Endothelium as secretory organ. Possibilities for therapeutic intervention] Pfaffendorf M. **Med Monatsschr Pharm** 1996 Feb;19(2):42–53 (70 ref.) **(Ger)**

[Regulation of antithrombogenicity in endothelium by hemodynamic forces] Kawai Y, et al. **Rinsho Byori** 1997 Apr;45(4):315–20 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Assay methods and their significance of factors involved in tissue factor-dependent coagulation reaction] Miyata T, et al. **Rinsho Ketsueki** 1997 Apr;38(4):319–22 (8 ref.) **(Jpn)**

[The influence of multiple dialyzer reuse on selected coagulation parameters] Juźwiuk J, et al. **Przegl Lek** 1997; 54(1):6–9 (Eng. Abstr.) **(Pol)**

[Hemocoagulation, anticoagulant and fibrinolytic characteristics of human stomach tissue] Golyshenkov SP. **Fiziol Cheloveka** 1996 Jul–Aug;22(4):114–7 **(Rus)**

[State of cardiovascular and blood coagulation systems during prolonged exposure to extreme stimuli] Morozov VN, et al. **Med Tr Prom Ekol** 1997;(1):5–8 (Eng. Abstr.) **(Rus)**

[Tissue destruction and initiation of blood coagulation in tuberculous inflammation] Baikeev RF, et al. **Probl Tuberk** 1997;(4):44–50 **(Rus)**

[Molecular basis of hereditary thrombophilia] Bertina RM. **Vestn Ross Akad Med Nauk** 1997;(1):15–23 (140 ref.) **(Rus)**

BLOOD COAGULATION DISORDERS

Etiology and treatment of acquired coagulopathies in the critically ill adult and child. Parker RI. **Crit Care Clin** 1997 Jul;13(3):591–609 (64 ref.)

Mechanisms, markers and management of hypercoagulable states. Mannuci PM, et al. **Haemostasis** 1996 Oct;26 Suppl 4:1–8 (50 ref.)

Natural anticoagulants and the liver. Castelino DJ, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):77–83 (32 ref.)

The hypercoagulable state. Who, how, and when to test and treat. Brigden ML. **Postgrad Med** 1997 May;101(5):249–52, 254–6, 259–62 passim (24 ref.)

[Changes in certain indicators of hemostasis in rabbits upon administration of Ebola virus preparations] Chepurnov AA, et al. **Vopr Virusol** 1997 May–Jun;42(3):140–3 (Eng. Abstr.) **(Rus)**

BLOOD

Activated protein C resistance—low incidence in glaucomatous optic disc haemorrhage and central retinal vein occlusion. Graham SL, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):199–205

Platelet prothrombinase activity and intracellular calcium responses in patients with storage pool deficiency, glycoprotein IIb–IIIa deficiency, or impaired platelet coagulant activity—a comparison with Scott syndrome. Weiss HJ, et al. **Blood** 1997 Mar 1;89(5):1599–611

Point-of-care fibrinolytic tests: the other side of blood coagulation. Oberhardt BJ, et al. **Clin Chem** 1997 Sep; 43(9):1697–702

Haemostatical and rheological aspects of dysfibrinogenemia. Mörsdorf S, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb; 17(1):13–9

Hypercoagulable abnormalities and postoperative failure of arterial reconstruction. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):363–70

Hemostatic abnormalities may predict chronic hypertension after preeclampsia. Bremme K, et al. **Gynecol Obstet Invest** 1996;41(1):20–6

Usefulness of thrombelastography in assessment of trauma patient coagulation. Kaufmann CR, et al. **J Trauma** 1997 Apr;42(4):716–20; discussion 720–2

Application of thromboelastography in other medical and surgical states. Traverso CI, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:50–2 (25 ref.)

Hepatitis G viral RNA in serum and in peripheral blood mononuclear cells and its relation to HCV-RNA in patients with clotting disorders. Sheng L, et al. **Thromb Haemost** 1997 May;77(5):868–72

The routine determination of the endogenous thrombin potential, first results in different forms of hyper- and hypocoagulability. Wielders S, et al. **Thromb Haemost** 1997 Apr;77(4):629–36

[Hemostatic status in subjects with deep venous thrombosis] Ferlito S, et al. **Minerva Cardioangiol** 1996 Dec; 44(12):649–53 (Eng. Abstr.) **(Ita)**

[Model of blood hyperviscosity syndrome in rats: relationship between hemorheological indices and their informativeness during brain ischemia] Plotnikov MB, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):274–5 **(Rus)**

[The system of hemostasis in experimental liver transplantation] Zhidkov IL, et al. **Khirurgiia (Mosk)** 1997; (2):35–8 (Eng. Abstr.) **(Rus)**

[Hemostasis disorders after resection of liver and approaches to their prevention and correction] Vishnevskii VA, et al. **Klin Med (Mosk)** 1996;74(8):32–4 (Eng. Abstr.) **(Rus)**

[Disorders in the hemostatic system in the Poland syndrome] Fedorov IuIu, et al. **Vestn Khir Im I I Grek** 1997; 156(3):78–9 **(Rus)**

[Immunohemostatic mechanisms in the development of primary open-angle glaucoma] Balashova LM. **Vestn Oftalmol** 1997 Mar–Apr;113(2):42–4 (106 ref.) **(Rus)**

[Thrombocyto- and coagulopathies in patients with diabetic glomerulosclerosis and chronic glomerulonephritis] Lapchyns'ka II, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):74–7 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED

Dextran syndrome. Acute hypotension, noncardiogenic pulmonary edema, anemia, and coagulopathy following hysteroscopic surgery using 32% dextran 70. Ellingson TL, et al. **Chest** 1997 Feb;111(2):513–8

Resistance to activated protein C, associated with oral contraceptives use; effect of formulations, duration of assumption, and doses of oestro-progestins. Olivieri O, et al. **Contraception** 1996 Sep;54(3):149–52

'Superwarfarin' poisoning leading to prolonged coagulopathy. Hui CH, et al. **Forensic Sci Int** 1996 Mar 5;78(1):13–8

MDMA induced hyperthermia: report of a fatality and review of current therapy. Dar KJ, et al. **Intensive Care Med** 1996 Sep;22(9):995–6 (13 ref.)

Hetastarch Coagulopathy [letter; comment] Treib J, et al. **J Neurosurg** 1996 Aug;85(2):367–8; discussion 368. Comment on: J Neurosurg 1995 Jan;82(1):44–7.

Hetastarch coagulopathy [letter; comment] [see comments] van Den Brink WA, et al. **J Neurosurg** 1996 Aug;85(2):367; discussion 368. Comment on: J Neurosurg 1995 Jan;82(1):44–7. Comment in: J Neurosurg 1997 Mar;86(3):574–5.

Assessing hyperanticoagulation of dental patients undergoing warfarin therapy. Cripps K, et al. **Mil Med** 1996 Nov; 161(11):679–82

Index of suspicion Case #2 presentation. Neal MJ, et al. **Pediatr Rev** 1996 Feb;17(2):65–7

[Thrombocytopenia and thrombophilic state in heparin therapy] Faglieri N, et al. **Minerva Anestesiol** 1995 Oct; 61(10):431–5 (Eng. Abstr.) **(Ita)**

[Management of patients with coagulation defect in oral and maxillofacial surgery. I. Management of patients with drug-induced hypocoagulation] Chiarini L, et al. **Minerva Stomatol** 1997 Jan–Feb;46(1–2):51–60 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Surgical implications of hypercoagulable syndromes. Gable DR, et al. **Am Surg** 1997 Feb;63(2):163–9

Use of aprotinin therapy in a patient with factor V Leiden. Robbins P, et al. **Anesth Analg** 1997 Mar;84(3):694–8

Risk factors for deep venous thrombosis of the upper extremities. Martinelli I, et al. **Ann Intern Med** 1997 May 1;126(9):707–11

Activated protein C resistance as a "new" cause of deep venous thrombosis in aviators. Emonson DL. **Aviat Space Environ Med** 1997 Jul;68(7):606–8

Low prevalence of thrombophilic coagulation defects in patients with deep vein thrombosis of the upper limbs. Ruggeri M, et al. **Blood Coagul Fibrinolysis** 1997 Apr; 8(3):191–4

Resistance to activated protein C: a common anticoagulant deficiency in patients with venous leg ulceration [letter] Peus D, et al. **Br J Dermatol** 1997 Aug;137(2):322–3

Minimal trauma knee hemarthrosis. Ames PR, et al. **Bull Hosp Jt Dis** 1996;54(4):258–60

Resistance to activated protein C: arterial thrombosis associated with autoimmune features. Yossepowitch O, et al. **Eur J Med Res** 1997 Aug 28;2(8):355–7

Hypercoagulable abnormalities and postoperative failure of arterial reconstruction. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):363–70

Acute proptosis in relation to activated protein C resistance: a case report. Comer M, et al. **Eye** 1997;11 (Pt 1):115–7

Association of antithrombotic factor deficiencies and hypofibrinolysis with Legg–Perthes disease [letter; comment] Herndon WA. **J Bone Joint Surg Am** 1997 Jul; 79(7):1114–5. Comment on: J Bone Joint Surg Am 1996 Jan;78(1):3–13.

Association of antithrombotic factor deficiencies and hypofibrinolysis with Legg–Perthes disease [letter; comment] Kahle WK. **J Bone Joint Surg Am** 1997 Jul; 79(7):1114; discussion 1114–5. Comment on: J Bone Joint Surg Am 1996 Jan;78(1):3–13.

Altered mental status in an anticoagulated patient [clinical conference] Nadel ES, et al. **J Emerg Med** 1997 Jan–Feb; 15(1):95–8

Membranous obstruction of the inferior vena cava in a patient with factor V Leiden: evidence for a post–thrombotic aetiology. Blanshard C, et al. **J Hepatol** 1997 Mar; 26(3):731–5

The surgical implications of primary hypercoagulable states. Bergamini TM, et al. **J Ky Med Assoc** 1997 Feb;95(2):67–72

Haemostatic abnormalities in patients with liver disease associated with viral hepatitis. Pramoolsinsap C, et al. **J Med Assoc Thai** 1996 Nov;79(11):681–8

Cerebral venous thrombosis and activated protein C resistance [letter] Sánchez del Rio M, et al. **J Neurol** 1996 Oct;243(10):727–8

Potentially prothrombotic abnormalities of coagulation in benign intracranial hypertension. Sussman J, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):229–33

Visual pathway hemorrhage associated with alcohol–induced coagulopathy. Friedman DI, et al. **J Neuroophthalmol** 1996 Jun;16(2):124–33

Hypercoagulable state in a hypobaric, hypoxic environment causes non–bacterial thrombotic endocarditis in rats. Nakanishi K, et al. **J Pathol** 1997 Mar;181(3):338–46

Increased fetal loss in women with heritable thrombophilia [see comments] Preston FE, et al. **Lancet** 1996 Oct 5; 348(9032):913–6. Comment in: Lancet 1996 Dec 21–28;348(9043):1734. Comment in: Lancet 1996 Dec 21–28;348(9043):1734–5. Comment in: Lancet 1996 Dec 21–28;348(9043):1735.

Acute promyelocytic leukaemia in the all trans retinoic acid era. DeLoughery TG, et al. **Med Oncol** 1996 Dec; 13(4):233–40 (107 ref.)

Calciphylaxis, thrombotic diathesis and defects in coagulation regulation [letter] Goldsmith DJ. **Nephrol Dial Transplant** 1997 May;12(5):1082–3

Thrombophilia due to 20210 G—>A prothrombin polymorphism and cerebral ischemia in the young [letter] Bentolila S, et al. **Stroke** 1997 Sep;28(9):1846–7

[Role of coagulation disorders in mesenteric ischemia] Maloisel F. **J Chir (Paris)** 1996;133(9–10):442–7 (Eng. Abstr.) **(Fre)**

[Blood coagulation disorders observed in arteriosclerosis obliterans] Ishimaru S. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):481–5 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Parvovirus B19 infection in patients with congenital blood coagulation disorders (see comments)] Aguilar Franco C, et al. **Med Clin (Barc)** 1997 May 3;108(17):641–6 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 May 3;108(17):658–62. **(Spa)**

[Diffuse gastrointestinal angiodysplasia associated with cryptogenic hepatic cirrhosis and coagulopathy simulating von Willebrand disease] Sebastián JJ, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):631–3 (Eng. Abstr.) **(Spa)**

[Changes in blood coagulation in HIV infection] Majluf–Cruz A. **Rev Invest Clin** 1997 Jan–Feb;49(1):51–66 (165 ref.) (Eng. Abstr.) **(Spa)**

[Hemostatic disorders in the pathogenesis of diabetic angiopathy] Henyk SM, et al. **Lik Sprava** 1996 Jan–Feb; (1–2):42–5 (33 ref.) **(Ukr)**

CONGENITAL

Congenital haptoglobin deficiency [letter] Manoharan A. **Blood** 1997 Aug 15;90(4):1709

A rapid screen for lupus anticoagulant with good discrimination from oral anticoagulants, congenital factor deficiency and heparin, is provided by comparing a sensitive and an insensitive APTT reagent. Brancaccio V, et al. **Blood Coagul Fibrinolysis** 1997 Apr;8(3):155–60

Pregnancy induced hypertension: changes in coagulation profile of newborns. Agarwal K, et al. **Indian J Pathol Microbiol** 1995 Jul;38(3):281–5

[Constitutional anomalies of hemostasis and management in surgical situation. Evaluation of 10 years' activity at the Hospital Centers of Aulnay–sous–Bois and Saint–Denis] Pluchet S, et al. **Ann Chir** 1997;51(4):333–42 (Eng. Abstr.) **(Fre)**

[Molecular biological approach for congenital abnormality of blood coagulation] Azuma H. **Rinsho Byori** 1996 Aug; 44(8):764–70 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Parvovirus B19 infection in patients with congenital blood coagulation disorders (see comments)] Aguilar Franco C, et al. **Med Clin (Barc)** 1997 May 3;108(17):641–6 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 May 3;108(17):658–62. **(Spa)**

DIAGNOSIS

Improved characteristics of aPC–resistance assay: Coatest aPC resistance by predilution of samples with factor V deficient plasma. Kapiotis S, et al. **Am J Clin Pathol** 1996 Nov;106(5):588–93

On the value of menorrhagia as a predictor for coagulation disorders. Edlund M, et al. **Am J Hematol** 1996 Dec; 53(4):234–8

Screening and diagnosis of coagulation disorders. Lusher JM. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 2):778–83 (25 ref.)

Severe postadenoidectomy bleeding revealing congenital alpha 2 antiplasmin deficiency in a child. Paqueron X, et al. **Anesth Analg** 1997 May;84(5):1147–9

Use of TPA–induced clot lysis time (TCLOT) to diagnose abnormal clot structure and fibrinolysis in a patient with spontaneous bleeding into his leg. Carr ME Jr, et al. **Angiology** 1996 Oct;47(10):941–9

Thrombelastography changes in pre–eclampsia and eclampsia. Orlikowski CE, et al. **Br J Anaesth** 1996 Aug; 77(2):157–61

Pre–anaesthetic assessment of coagulation abnormalities in obstetric patients: usefulness, timing and clinical implications. Simon L, et al. **Br J Anaesth** 1997 Jun; 78(6):678–83

ROC curves to evaluate the performance of 'clotting' methods for factor V Leiden [letter] Nguyen P, et al. **Br J Haematol** 1997 Mar;96(4):879

Soluble tumour necrosis factor receptor levels reflect coagulation abnormalities in systemic juvenile chronic arthritis. de Benedetti F, et al. **Br J Rheumatol** 1997 May; 36(5):581–8

Biochemical markers of coagulation activation in mitral stenosis, atrial fibrillation, and cardiomyopathy. Ikeda U, et al. **Clin Cardiol** 1997 Jan;20(1):7–10 (36 ref.)

ProC Global: the first functional screening assay for the complete protein C pathway. Dati F, et al. **Clin Chem** 1997 Sep;43(9):1719–23

Diagnosis strategies in activated protein C resistance: is genotyping still necessary? Biron C, et al. **Clin Lab Haematol** 1997 Mar;19(1):67–71

Increased thrombin generation in patients with chronic renal failure. Sagripanti A, et al. **Int J Clin Lab Res** 1997; 27(1):72–5

Hypercoagulability in patients with primary biliary cirrhosis and primary sclerosing cholangitis evaluated by thrombelastography. Ben–Ari Z, et al. **J Hepatol** 1997 Mar; 26(3):554–9

Venous thromboembolism [letter; comment] White TM, et al. **N Engl J Med** 1997 Jul 3;337(1):52–3. Comment on: N Engl J Med 1997 Feb 6;336(6):433–4.

Index of suspicion. Antithrombin III deficiency. Nussbaum D 2nd. **Pediatr Rev** 1997 Aug;18(8):283, 285–6

Evaluation of patients with suspected hypercoagulability: what tests to order. Donaldson MC. **Semin Vasc Surg** 1996 Dec;9(4):277–83 (33 ref.)

Isolated deep cerebral venous thrombosis treated by direct endovascular thrombolysis. Gerszten PC, et al. **Surg Neurol** 1997 Sep;48(3):261–6

Prothrombin time sensitivity and specificity to mild clotting factor deficiencies of the extrinsic pathway: evaluation of eight commercial thromboplastins. Massignon D, et al. **Thromb Haemost** 1996 Apr;75(4):590–4

Clinical significance of activated protein C resistance as a potential marker for hypercoagulable state. Sakata T, et al. **Thromb Res** 1996 May 1;82(3):235–44

More on false thrombocytopenias: EDTA–dependent pseudothrombocytopenia associated with a congenital platelet release defect. Silvestri F, et al. **Vox Sang** 1996; 71(1):27–9

[The determination of hemostatic defects in aeronautical personnel] Blundo G, et al. **Riv Med Aeronaut Spaz** 1975 Oct–Dec;38(4):427–32 (Eng. Abstr.) **(Ita)**

[A hematologic coagulation monitoring system for bedside use] Matsumoto K, et al. **Masui** 1996 Dec;45(12):1525–8 (Eng. Abstr.) **(Jpn)**

[Are screening tests necessary for detection of hypercoagulability states in situations of risk of thromboembolic episodes? (letter)] García de Tena J, et al. **Med Clin (Barc)** 1997 Feb 8;108(5):197 **(Spa)**

[Use of a turbidometric method for rapid diagnosis of coagulation and clotting disorders in patients with acute myocardial infarction] Netiazhenko VZ, et al. **Ukr Biokhim Zh** 1996 May–Jun;68(3):100–4 (Eng. Abstr.) **(Ukr)**

DRUG THERAPY

Coagulation abnormalities in type 1 Gaucher disease are due to low–grade activation and can be partly restored by enzyme supplementation therapy. Hollak CE, et al. **Br J Haematol** 1997 Mar;96(3):470–6

SJAMP–induced platelet aggregation defect. Shen D. **Chin Med J (Engl)** 1996 Jan;109(1):46–8 (10 ref.)

Coagulopathy of childhood nephrotic syndrome—a reappraisal of the role of natural anticoagulants and fibrinolysis. al–Mugeiren MM, et al. **Haemostasis** 1996 Nov–Dec;26(6):304–10

Management of venous thromboembolism [letter; comment] Rosendaal FR, et al. **N Engl J Med** 1997 May 22; 336(21):1528–9; discussion 1529. Comment on: N Engl J Med 1996 Dec 12;335(24):1816–28.

Heparin therapy in the Chinese—lower doses are required. Yu CM, et al. **QJM** 1997 Aug;90(8):535–43

Bleeding times and DDAVP [letter] Crosby E. **Reg Anesth** 1996 Sep–Oct;21(5):496–8

Antithrombotic effect of human recombinant tissue factor pathway inhibitor on endotoxin–induced intravascular coagulation in rats: concerted effect with antithrombin. Kamikubo Y, et al. **Thromb Haemost** 1996 Oct;76(4):621–6

Antithrombin III and antivenom reversal of coagulopathy in rats envenomated with Malayan pit viper venom. Pukrittayakamee S, et al. **Toxicon** 1994 Jan;32(1):97–103

[Secondary resistance to coumarin derivatives in a patient with a hypercoagulability syndrome] Marburger C, et al. **Dtsch Med Wochenschr** 1997 Aug 1;122(31–32):959–64 (Eng. Abstr.) **(Ger)**

[Modeling disorders of platelet hemostasis and correction of them with an analog of vasopressin DGAVP] Golubeva MG, et al. **Dokl Akad Nauk** 1996 May;348(2):270–1 **(Rus)**

[The chronocorrection of disorders in the blood coagulation rhythm with kurantil in patients with decompensated rheumatic heart defects] Zaslavskaia RM, et al. **Patol Fiziol Eksp Ter** 1997 Apr–Jun;(2):23–7 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Resistance to activated protein C and Arg 506 Gln factor V mutation are uncommon in eastern Asian populations. Kodaira H, et al. **Acta Haematol** 1997;98(1):22–5

Frequency of factor V Leiden (Arg506Gln) in Turkey [letter; comment] Ozbek U, et al. **Br J Haematol** 1997 May; 97(2):504–5. Comment on: Br J Haematol 1996 Dec;95(4):579–86.

ETHNOLOGY

Factors determining the maintenance dose of warfarin in Chinese patients [see comments] Yu HC, et al. **QJM** 1996 Feb;89(2):127–35. Comment in: QJM 1996 Jul;89(7):557.

ETIOLOGY

Coagulation abnormalities in the OR and on the ICU. Boldt J. **Acta Anaesthesiol Scand Suppl** 1996;109:75–6

Noonan syndrome: coagulation and clinical aspects. Massarano AA, et al. **Acta Paediatr** 1996 Oct;85(10):1181–5

Coagulopathy in severe closed head injury: is empiric therapy warranted? May AK, et al. **Am Surg** 1997 Mar;63(3):233–6; discussion 236–7

Severe intraoperative coagulopathy following routine aortobi–iliac bypass with knitted Dacron graft. Naslund TC, et al. **Am Surg** 1997 May;63(5):386–9

Endothelial cell injury in cardiovascular surgery: the procoagulant response. Boyle EM Jr, et al. **Ann Thorac Surg** 1996 Nov;62(5):1549–57 (54 ref.)

Primary pulmonary malignant hemangiopericytoma associated with coagulopathy. Wu YC, et al. **Ann Thorac Surg** 1997 Sep;64(3):841–3

Factors predicting morbidity following hematopoietic stem cell transplantation. Gordon B, et al. **Bone Marrow Transplant** 1997 Mar;19(5):497–501

Haemodilution induces a hypercoagulable state [letter; comment] Entholzner EK, et al. **Br J Anaesth** 1996 Dec; 77(6):809. Comment on: Br J Anaesth 1996 Mar;76(3):412–4.

Possible mechanism to explain increased coagulability of blood after haemodilution [letter; comment] Fletcher JE, et al. **Br J Anaesth** 1997 Apr;78(4):478. Comment on: Br J Anaesth 1996 Mar;76(3):412–4. Comment on: Br J Anaesth 1996 Jul;77(1):132.

Use of heparinase modified thrombelastography in liver transplantation. Harding SA, et al. **Br J Anaesth** 1997 Feb; 78(2):175–9

Haemodilution induces a hypercoagulable state [letter] Mardel SN, et al. **Br J Anaesth** 1996 Nov;77(5):700–1

Thrombelastography changes in pre–eclampsia and eclampsia. Orlikowski CE, et al. **Br J Anaesth** 1996 Aug; 77(2):157–61

Fibrinogen levels correlate with stage of disease in patients with oesophageal cancer. Wayman J, et al. **Br J Surg** 1997 Feb;84(2):185–8

Prevalence of coagulation abnormalities associated with intrauterine fetal death. Maslow AD, et al. **Can J Anaesth** 1996 Dec;43(12):1237–43

BLOOD COAGULATION DISORDERS

Acquired heparin-like anticoagulants: a second case in metastatic breast carcinoma and literature review. Hill GR, et al. **Clin Lab Haematol** 1996 Dec;18(4):291-5 (27 ref.)
Haemostatic abnormalities in lung cancer: prognostic implications. Buccheri G, et al. **Eur J Cancer** 1997 Jan; 33(1):50-5
Coagulation disorders in thyroid diseases. Hofbauer LC, et al. **Eur J Endocrinol** 1997 Jan;136(1):1-7 (71 ref.)
Hypercoagulability and haemodynamic abnormalities in atrial fibrillation [comment] Lip GY. **Heart** 1997 May;77(5):395-6 . Comment on: Heart 1997 May;77(5):407-11.
Change of lipoprotein (a) and coagulative or fibrinolytic parameters in diabetic patients with nephropathy [published erratum appears in J Atheroscler Thromb 1996;2(2):133] Nagai T. **J Atheroscler Thromb** 1994;1(1):37-40
Hematological consequences of profound hypothermic circulatory arrest and aortic dissection. Wilde JT. **J Card Surg** 1997 Mar-Apr;12(2 Suppl):201-6 (32 ref.)
Perioperative hypercoagulability in uremic patients: a viscoelastic study. Pivalizza EG, et al. **J Clin Anesth** 1997 Sep;9(6):442-5
Hydroxyethyl starch [letter; comment] Treib J, et al. **J Neurosurg** 1997 Mar;86(3):574-5. Comment on: J Neurosurg 1996 Aug;85(2):367; discussion 368.
Predicting life-threatening coagulopathy in the massively transfused trauma patient: hypothermia and acidoses revisited. Cosgriff N, et al. **J Trauma** 1997 May; 42(5):857-61; discussion 861-2
Usefulness of thrombelastography in assessment of trauma patient coagulation. Kaufmann CR, et al. **J Trauma** 1997 Apr;42(4):716-20; discussion 720-2
Coagulation changes during thoracoabdominal aneurysm repair. Gertler JP, et al. **J Vasc Surg** 1996 Dec;24(6):936-43; discussion 943-5
Non-Hodgkin's lymphoma presenting with coagulopathy due to anti-phospholipid antibody syndrome. McGuire D, et al. **Leuk Lymphoma** 1997 Jun;26(1-2):193-6
Environmental and genetic determinants of the hypercoagulable state and cardiovascular disease in renal transplant recipients. Irish AB, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):167-73
Coagulopathy in pediatric abusive head trauma. Hymel KP, et al. **Pediatrics** 1997 Mar;99(3):371-5
Autoimmune coagulation disorders. Scott-Timperley LJ, et al. **Rheum Dis Clin North Am** 1997 May;23(2):411-23 (53 ref.)
Clinical relevance of antithrombin deficiencies. Mammen EF. **Semin Hematol** 1995 Oct;32(4 Suppl 2):2-6; discussion 7 (29 ref.)
Antithrombin deficiency in special clinical syndromes--Part II: trauma/burns. Penner J. **Semin Hematol** 1995 Oct;32(4 Suppl 2):42-7; discussion 48 (23 ref.)
Coagulation disturbance in profound hypothermia: the influence of anti-fibrinolytic therapy. Westaby S. **Semin Thorac Cardiovasc Surg** 1997 Jul;9(3):246-56 (62 ref.)
Thromboelastography in liver transplantation. Kang Y. **Semin Thromb Hemost** 1995;21 Suppl 4:34-44 (46 ref.)
Hypercoagulability and hyperfibrinolysis in patients with melanoma. Bottasso B, et al. **Thromb Res** 1996 Feb 1; 81(3):345-52
Coagulopathy and fibrinolysis following the bite of a hump-nosed viper (Hypnale hypnale). Premawardena AP, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun;90(3):293
[Subclinical pro-thrombotic state in a relapse of Behcet's disease--case report] Undas A, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):258-62 (Eng. Abstr.) **(Pol)**
[Intravascular blood microcoagulation in liver diseases] Svintsitskiĭ AS, et al. **Lik Sprava** 1996 Jul-Sep;(7-9):8-12 (35 ref.) **(Rus)**
[State of cardiovascular and blood coagulation systems during prolonged exposure to extreme stimuli] Morozov VN, et al. **Med Tr Prom Ekol** 1997;(1):5-8 (Eng. Abstr.) **(Rus)**

GENETICS

Hereditary deficiency of vitamin K-dependent coagulation factors with skeletal abnormalities. Boneh A, et al. **Am J Med Genet** 1996 Oct 28;65(3):241-3
Family studies in Scott syndrome [letter; comment] Weiss HJ, et al. **Blood** 1997 Jul 1;90(1):475-6. Comment on: Blood 1996 Feb 15;87(4):1409-15.
Fibrinogen Matsumoto II: gamma 308 Asn-->Lys (AAT-->AAG) mutation associated with bleeding tendency. Okumura N, et al. **Br J Haematol** 1996 Sep; 94(3):526-8
Diagnosis strategies in activated protein C resistance: is genotyping still necessary? Biron C, et al. **Clin Lab Haematol** 1997 Mar;19(1):67-71
Inherited defects of the protein C anticoagulant system in childhood thrombo-embolism. Nowak-Göttl U, et al. **Eur J Pediatr** 1996 Nov;155(11):921-7 (83 ref.)
Factor VII central. A novel mutation in the catalytic domain that reduces tissue factor binding, impairs activation by factor Xa, and abolishes amidolytic and coagulant activity. Bharadwaj D, et al. **J Biol Chem** 1996 Nov 29; 271(48):30685-91
Familial coagulation-inhibiting and fibrinolytic protein deficiencies in juvenile transient ischaemic attacks. De Lucia D, et al. **J Neurosurg Sci** 1996 Mar;40(1):25-35
Familial thrombophilia: clinical and molecular analysis of Swedish families with inherited resistance to activated protein C or protein S deficiency. Zöller B. **Scand J Clin Lab Invest Suppl** 1996;226:19-46
Thrombophilia due to 20210 G-->A prothrombin polymorphism and cerebral ischemia in the young [letter] Bentolila S, et al. **Stroke** 1997 Sep;28(9):1846-7
[Molecular biological approach for congenital abnormality of blood coagulation] Azuma H. **Rinsho Byori** 1996 Aug; 44(8):764-70 (11 ref.) (Eng. Abstr.) **(Jpn)**
[New allele-specific primers for detection of Leiden mutation in exon 10 of factor V gene in thrombophilias] Zykova ES, et al. **Bioorg Khim** 1997 Mar;23(3):205-10 (Eng. Abstr.) **(Rus)**
[Mesenteric venous thrombosis probably due to hereditary thrombophilia in an 18-year-old boy] Vajó J, et al. **Rozhl Chir** 1997 Jun;76(6):294-6 (Eng. Abstr.) **(Slo)**

HISTORY

Association of blood groups and disease: do blood group antigens and antibodies have a biological role? Garratty G. **Pubbl Stn Zool Napoli II** 1996;18(3):321-44

IMMUNOLOGY

Acquired inhibitors. Cohen AJ, et al. **Baillieres Clin Haematol** 1996 Jun;9(2):331-54 (100 ref.)
Coagulation activation and fibrinolytic imbalance in subjects with idiopathic antiphospholipid antibodies--a crucial role for acquired free protein S deficiency. Ames PR, et al. **Thromb Haemost** 1996 Aug;76(2):190-4
Seroprevalence of hepatitis B virus, hepatitis C virus, and human immunodeficiency virus antibodies in Turkish patients with hereditary coagulation factor deficiencies [letter] Soylu AR, et al. **Vox Sang** 1997;73(1):54

METABOLISM

Scott syndrome erythrocytes contain a membrane protein capable of mediating Ca2+-dependent transbilayer migration of membrane phospholipids. Stout JG, et al. **J Clin Invest** 1997 May 1;99(9):2232-8
Hypercoagulability and secondary hyperfibrinolysis may be related to abnormal lipid metabolism in patients treated with continuous ambulatory peritoneal dialysis. Kobayashi M, et al. **Nephron** 1997;76(1):56-61

MICROBIOLOGY

Helicobacter pylori infection and coagulation in healthy people. Parente F, et al. **BMJ** 1997 May 3;314(7090):1318-9

PATHOLOGY

Transjugular renal biopsy in the treatment of patients with cirrhosis and renal abnormalities. Jouët P, et al. **Hepatology** 1996 Nov;24(5):1143-7
Malignant atrophic papulosis (Degos' disease) with extensive cardiopulmonary involvement. Mauad T, et al. **Histopathology** 1996 Jan;28(1):84-6
Plasma thrombin-antithrombin complexes, latent coagulation disorders and metastatic spread in lung cancer: a longitudinal study. Tricerri A, et al. **Oncology** 1996 Nov-Dec;53(6):455-60

PHYSIOPATHOLOGY

Resistance to activated protein C in unselected patients with arterial and venous thrombosis. Faioni EM, et al. **Am J Hematol** 1997 Jun;55(2):59-64
The pathophysiology of bleeding disorders presenting as abnormal uterine bleeding. Ewenstein BM. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 2):770-7 (50 ref.)
Loss of fibrinogen rescues mice from the pleiotropic effects of plasminogen deficiency. Bugge TH, et al. **Cell** 1996 Nov 15;87(4):709-19
Hypercoagulability and hypofibrinolysis in primary osteoarthritis. Cheras PA, et al. **Clin Orthop** 1997 Jan; (334):57-67
Resistance to activated protein C and Legg-Perthes disease. Glueck CJ, et al. **Clin Orthop** 1997 May;(338):139-52
Familial thrombophilia: clinical and molecular analysis of Swedish families with inherited resistance to activated protein C or protein S deficiency. Zöller B. **Scand J Clin Lab Invest Suppl** 1996;226:19-46
Introduction: hypercoagulable states. Bertina RM. **Semin Hematol** 1997 Jul;34(3):167-70 (31 ref.)
Comparison of the efficacy of pentoxifylline and albifyllin (HWA 138) on endotoxin-induced cytokine production, coagulation disturbances, and mortality. Bahrami S, et al. **Shock** 1996 Jun;5(6):424-8

THERAPY

A combined management protocol for patients with coagulation disorders infected with hepatitis C virus. Ahmed MM, et al. **Br J Haematol** 1996 Nov;95(2):383-8
Reliability of delayed INR determination: implications for decentralized anticoagulant care with off-site blood sampling [see comments] Baglin T, et al. **Br J Haematol** 1997 Mar;96(3):431-4. Comment in: Br J Haematol 1997 Jun;97(4):936-7.
The management of abnormalities of hemostasis in acute liver failure. Pereira SP, et al. **Semin Liver Dis** 1996 Nov; 16(4):403-14 (193 ref.)
Invasive line placement in critically ill patients: do hemostatic defects matter? DeLoughery TG, et al. **Transfusion** 1996 Sep;36(9):827-31
[Treatment of the patient with a coagulation defect in oral and maxillofacial surgery. III. The management of patients in a hypocoagulative state because of a hemophilic-type primary pathology] Chiarini L, et al. **Minerva Stomatol** 1997 Mar;46(3):115-31 (18 ref.) (Eng. Abstr.) **(Ita)**
[A case of idiopathic portal hypertension: efficacy of operation for coagulopathy] Muguruma N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep;93(9):671-5 **(Jpn)**
[The use of laser therapy in correcting hemostatic system disorders in patients with chronic pyelonephritis] Neĭmark AI, et al. **Urol Nefrol (Mosk)** 1996 Nov-Dec;(6):12-4 (Eng. Abstr.) **(Rus)**

VETERINARY

An inherited platelet function defect in a Simmental crossbred herd. Gentry PA, et al. **Can J Vet Res** 1997 Apr; 61(2):128-33
Evaluation of a prothrombin time optimized for the dog on plasmas with defined coagulation factor deficiency due to coumarin intoxication. Mischke R. **Zentralbl Veterinarmed A** 1995 Nov;42(9):589-99
[The "activated coagulation time (ACT)": two simple screening methods for evaluating coagulation disorders in dogs] Glaus T, et al. **Schweiz Arch Tierheilkd** 1996; 138(11):532-6 (Eng. Abstr.) **(Ger)**

VIROLOGY

Hepatitis G viral RNA in serum and in peripheral blood mononuclear cells and its relation to HCV-RNA in patients with clotting disorders. Sheng L, et al. **Thromb Haemost** 1997 May;77(5):868-72

BLOOD COAGULATION FACTORS

see related
CALCIUM
COAGULANTS

HIV infection transmitted through blood product treatment, blood transfusion, and tissue transplantation. Mortimer JY, et al. **Commun Dis Rep CDR Rev** 1997 Aug 22;7(9):R130-2
HGV in coagulation-factor concentrates [letter] Garcia-Trevijano ER, et al. **Lancet** 1996 Oct 12; 348(9033):1032
[Hemostatic status in subjects with deep venous thrombosis] Ferlito S, et al. **Minerva Cardioangiol** 1996 Dec; 44(12):649-53 (Eng. Abstr.) **(Ita)**
[Reality and clinical application of blood coagulation factor preparations] Sakuragawa N. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):811-7 (5 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Coagulation factor concentrates by continuous infusion. Martinowitz U, et al. **Transfus Med Rev** 1997 Jan; 11(1):56-63 (40 ref.)
Transmission of parvovirus B19 by coagulation factor concentrates exposed to 100 degrees C heat after lyophilization. Santagostino E, et al. **Transfusion** 1997 May; 37(5):517-22
[Successful induction of immune tolerance and novel hemostatic effects in a hemophilia A with high-responder inhibitor by regular infusions of factor VIII] Shima M, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1303-8 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Thrombogenic and fibrinolytic factors and cardiovascular risk in non-insulin-dependent diabetes mellitus. Juhan-Vague I, et al. **Ann Med** 1996 Aug;28(4):371-80 (120 ref.)
Transfusion-transmitted disease. Lee CA. **Baillieres Clin Haematol** 1996 Jun;9(2):369-94 (107 ref.)
Magnetic resonance imaging of myocardial infarction during prothrombin complex concentrate therapy of hemophilia A. Gruen DR, et al. **Pediatr Radiol** 1997 Mar;27(3):271-2
Hepatitis A transmission by factor IX concentrates. Lawlor E, et al. **Vox Sang** 1996;71(2):126-8

ANALYSIS

Physiological inhibitors of blood coagulation and prothrombin fragment F 1 + 2 in type 2 diabetic patients with normoalbuminuria and incipient nephropathy. Mormile A, et al. **Acta Diabetol** 1996 Sep;33(3):241-5
Changes in hemostatic function at times of cyclic variation in occupational stress. Frimerman A, et al. **Am J Cardiol** 1997 Jan 1;79(1):72-5
Plasma activity of contact coagulation factors in patients with IgA nephritis. Tan CC, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):218-21
Decreased plasma levels of factor II + VII + X correlate with increased levels of soluble cytokine receptors in patients with malaria and meningococcal infections. Bygbjerg IC, et al. **APMIS** 1997 Feb;105(2):150-6
Activation of the coagulation cascade in C1-inhibitor deficiencies. Cugno M, et al. **Blood** 1997 May 1; 89(9):3213-8
Haemostatic changes in the pulmonary blood during cardiopulmonary bypass. Cardigan RA, et al.

Blood Coagul Fibrinolysis 1996 Jul;7(5):567–77

Epidemiology of coagulation factors, inhibitors and activation markers: the Third Glasgow MONICA Survey. I. Illustrative reference ranges by age, sex and hormone use. Lowe GD, et al. **Br J Haematol** 1997 Jun;97(4):775–84

Epidemiology of coagulation factors, inhibitors and activation markers: The Third Glasgow MONICA Survey. II. Relationships to cardiovascular risk factors and prevalent cardiovascular disease. Woodward M, et al. **Br J Haematol** 1997 Jun;97(4):785–97

Values of blood coagulating factors vary with ambient temperature: the Cardiovascular Disease Risk Factor Two–Township Study in Taiwan. Yeh CJ, et al. **Chin J Physiol** 1996;39(2):111–6

Prospective study of hemostatic factors and incidence of coronary heart disease: the Atherosclerosis Risk in Communities (ARIC) Study. Folsom AR, et al. **Circulation** 1997 Aug 19;96(4):1102–8

Factor X values as a means to assess the extent of oral anticoagulation in patients receiving antithrombin drugs. Hoppensteadt DA, et al. **Clin Chem** 1997 Sep;43(9):1786–8

Xylum CSA: automated system for assessing hemostasis in simulated vascular flow. Li CK, et al. **Clin Chem** 1997 Sep; 43(9):1788–90

Coagulation factor changes following endurance exercise. Rock G, et al. **Clin J Sport Med** 1997 Apr;7(2):94–9

Local hemostatic kinetics in patent and thrombosed vascular accesses of hemodialysis patients [letter; comment] Erdem Y, et al. **Clin Nephrol** 1997 Mar;47(3):208. Comment on: Clin Nephrol 1996 Jul;46(1):77–8.

Treatment of patients with Niemann–Pick type is using repeated amniotic epithelial cells implantation: correction of aggregation and coagulation abnormalities [see comments] Cerneca F, et al. **Clin Pediatr (Phila)** 1997 Mar; 36(3):141–6. Comment in: Clin Pediatr (Phila) 1997 Mar;36(3):147–8.

Biochemical effects in women following one year's exposure to a new triphasic contraceptive—II. coagulation profiles. Lox CD. **Gen Pharmacol** 1996 Mar;27(2):371–4

Calibration of clot–based, coagulation factor assays using a first–order exponential equation and the method of nonlinear least squares. Retzinger GS. **Haematologia (Budap)** 1997;28(3):139–48

Quantification of hemostatic proteins and activation products in synovial fluids from arthritic joints prior to and after induction of chemical synoviorthesis. Römisch J, et al. **Haemostasis** 1996 May–Jun;26(3):170–7

Increase in both pro–thrombotic and anti–thrombotic factors in obese premenopausal women: relationship with body fat distribution. De Pergola G, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):527–535

Antiphospholipid antibodies and coagulation regulatory protein abnormalities in children with pulmonary emboli. Nuss R, et al. **J Pediatr Hematol Oncol** 1997 May–Jun; 19(3):202–7

Coagulation and vascular abnormalities in Crow–Fukase syndrome. Saida K, et al. **Muscle Nerve** 1997 Apr; 20(4):486–92

Prediction of changes in levels of haemostatic variables during natural menstrual cycle and ovarian hyperstimulation. Andersson O, et al. **Thromb Haemost** 1997 May;77(5):901–4

Determination of tumor cell procoagulant activity by Sonoclot analysis in whole blood. Amirkhosravi A, et al. **Thromb Res** 1996 Dec 1;84(5):323–32

Quantitation of the thrombotic effects in artery and vein of the increase in coagulation factors during normal pregnancy in the rat. Iomhair MM, et al. **Thromb Res** 1997 Aug 15;87(4):359–62

Variability in platelet procoagulant activity in healthy volunteers. Sumner WT, et al. **Thromb Res** 1996 Mar 1; 81(5):533–43

Stability of blood coagulation factors and inhibitors in blood drawn into half–strength citrate anticoagulant. Suontaka AM, et al. **Vox Sang** 1996;71(2):97–102

[Significance of the coagulation and fibrinolytic parameters as predictors for carotid atherosclerosis] Nomura E, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):741–5 (Eng. Abstr.) **(Jpn)**

[Methods for determining the activity of factors VII, VIII, IX and X of the blood coagulation system] Taran LD. **Ukr Biokhim Zh** 1996 Jan–Feb;68(1):13–20 (86 ref.) (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Clinical presentation and management of patients with circulating anticoagulants. Moliterno A, et al. **Adv Exp Med Biol** 1995;386:153–5

Inhibition of coagulation factors by recombinant barley serpin BSZx. Dahl SW, et al. **FEBS Lett** 1996 Sep 30; 394(2):165–8

Characterization of placental bikunin, a novel human serine protease inhibitor. Delaria KA, et al. **J Biol Chem** 1997 May 2;272(18):12209–14

Autoimmune coagulation disorders. Scott–Timperley LJ, et al. **Rheum Dis Clin North Am** 1997 May;23(2):411–23 (53 ref.)

Modulation of endotoxin–induced inflammation in the bovine teat using antagonists/inhibitors to leukotrienes, platelet activating factor and interleukin 1 beta. Waller KP. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):239–51

BIOSYNTHESIS

Inhibition of IL–1 induced tissue factor (TF) synthesis and procoagulant activity (PCA) in purified human monocytes by IL–4, IL–10 and IL–13. Osnes LT, et al. **Cytokine** 1996 Nov;8(11):822–7

CD40 engagement induces monocyte procoagulant activity through an interleukin–10 resistant pathway. Pradier O, et al. **Eur J Immunol** 1996 Dec;26(12):3048–54

The role of tyrosine phosphorylation in lipopolysaccharide– and zymosan–induced procoagulant activity and tissue factor expression in macrophages. Dackiw AP, et al. **Infect Immun** 1997 Jun;65(6):2362–70

CHEMISTRY

Effect of Ca2+ on the structure of vitamin K–dependent coagulation factors. Sunnerhagen M, et al. **Haemostasis** 1996;26 Suppl 1:45–53 (44 ref.)

The amino–terminal residues in the crystal structure of connective tissue activating peptide–III (des10) block the ELR chemotactic sequence. Malkowski MG, et al. **J Mol Biol** 1997 Feb 21;266(2):367–80

DEFICIENCY see BLOOD COAGULATION DISORDERS

DRUG EFFECTS

Interactions of poly(lactic acid) and poly(lactic acid–co–ethylene oxide) nanoparticles with the plasma factors of the coagulation system. Sahli H, et al. **Biomaterials** 1997 Feb;18(4):281–8

Reduction of thrombus formation without inhibiting coagulation factors does not inhibit intimal hyperplasia after balloon injury in pig coronary arteries. Liu MW, et al. **Coron Artery Dis** 1996 Sep;7(9):667–71

CD40 engagement induces monocyte procoagulant activity through an interleukin–10 resistant pathway. Pradier O, et al. **Eur J Immunol** 1996 Dec;26(12):3048–54

Effects of prostacyclin substitution on systemic procoagulant turnover and cardiorespiratory variables in experimental hypercoagulability. Scherer R, et al. **Haemostasis** 1997 Jan–Feb;27(1):16–24

The anticoagulant, antithrombotic and haemorrhagic effect of long–term warfarin on experimental venous and arterial thrombosis in the rat. MacIomhair M, et al. **Ir J Med Sci** 1996 Jul–Sep;165(3):213–8

Moderate beer consumption and the blood coagulation in patients with coronary artery disease. Gorinstein S, et al. **J Intern Med** 1997 Jan;241(1):47–51

Hormone–replacement therapy and coagulation [letter] Ambrus CM, et al. **N Engl J Med** 1997 Jul 17;337(3):200–1; discussion 201–2

Platelet functions and haemostasis parameters in pigs: absence of side effects of a procedure of general anaesthesia. Roussi J, et al. **Thromb Res** 1996 Feb 1;81(3):297–305

[The vascular risk of third generation contraceptive pills] Levesque H, et al. **J Mal Vasc** 1997;22(1):5–12 (50 ref.) (Eng. Abstr.) **(Fre)**

[Modification of some prothrombotic indices after treatment with iloprost in arterial disease patients] Ferlito S, et al. **Minerva Cardioangiol** 1996 Dec;44(12):645–8 (Eng. Abstr.) **(Ita)**

GENETICS

Interstitial deletion of chromosome 1q [del(1)(q24q25.3)] identified by fluorescence in situ hybridization and gene dosage analysis of apolipoprotein A–II, coagulation factor V, and antithrombin III. Takano T, et al. **Am J Med Genet** 1997 Jan 20;68(2):207–10

Factor V Leiden and other coagulation factor mutations affecting thrombotic risk. Bertina RM. **Clin Chem** 1997 Sep; 43(9):1678–83 (42 ref.)

Genetic analysis of the plasminogen and coagulation system in mice. Carmeliet P, et al. **Haemostasis** 1996 Oct;26 Suppl 4:132–53 (106 ref.)

Mutations which introduce free cysteine residues in the Gla–domain of vitamin K dependent proteins result in the formation of complexes with alpha 1–microglobulin. Wojcik EG, et al. **Thromb Haemost** 1996 Jan;75(1):70–5

[Molecular basis of hereditary thrombophilia] Bertina RM. **Vestn Ross Akad Med Nauk** 1997;(1):15–23 (140 ref.) **(Rus)**

IMMUNOLOGY

Acquired inhibitors. Cohen AJ, et al. **Baillieres Clin Haematol** 1996 Jun;9(2):331–54 (100 ref.)

Autoantibodies and blood coagulation. Das Gupta A. **Indian J Med Sci** 1996 May;50(5):168–76

Autoantibodies to phospholipids and to the coagulation proteins in AIDS. Abuaf N, et al. **Thromb Haemost** 1997 May;77(5):856–61

ISOLATION & PURIFICATION

Review of conformation–specific affinity purification methods for plasma vitamin K–dependent proteins. Yan SB. **J Mol Recognit** 1996 May–Jun;9(3):211–8 (62 ref.)

Isolation and characterization of a new clotting factor from Bothrops jararacussu (jararacuçu) venom. Andrião–Escarso SH, et al. **Toxicon** 1997 Jul;35(7):1043–52

Removal of parvovirus and hepatitis A virus by metal chelate affinity chromatography during the preparation of Replenine: a high–purity factor IX concentrate [letter] Roberts PL. **Vox Sang** 1996;71(2):129–30

METABOLISM

Horseshoe crab factor G: a new heterodimeric serine protease zymogen sensitive to (1 —> 3)–beta–D–glucan. Muta T, et al. **Adv Exp Med Biol** 1996;389:79–85 (28 ref.)

Induction of monocyte tissue factor procoagulant activity during coronary artery bypass surgery is reduced with heparin–coated extracorporeal circuit. Barstad RM, et al. **Br J Haematol** 1996 Sep;94(3):517–25

Hemostatic abnormalities may predict chronic hypertension after preeclampsia. Bremme K, et al. **Gynecol Obstet Invest** 1996;41(1):20–6

Evaluation of the initiation phase of blood coagulation using ultrasensitive assays for serine proteases. Butenas S, et al. **J Biol Chem** 1997 Aug 22;272(34):21527–33

Circadian variations of plasma levels of blood coagulation/fibrinolysis molecular markers in progressive systemic sclerosis (PSS). Maeda M, et al. **J Dermatol Sci** 1996 Oct;13(1):18–24

The amino–terminal residues in the crystal structure of connective tissue activating peptide–III (des10) block the ELR chemotactic sequence. Malkowski MG, et al. **J Mol Biol** 1997 Feb 21;266(2):367–80

V2 receptor antagonism of DDAVP–induced release of hemostasis factors in conscious dogs. Bernat A, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):597–602

Coagulation changes during thoracoabdominal aneurysm repair. Gertler JP, et al. **J Vasc Surg** 1996 Dec;24(6):936–43; discussion 943–5

Antiphospholipid antibodies (aPL) increase the potential monocyte procoagulant activity in patients with systemic lupus erythematosus. Martini F, et al. **Lupus** 1996 Jun; 5(3):206–11

Intracoronary magnesium and diltiazem affect to a similar extent certain hemostatic factors during acute myocardial infarction in swine. Serebruany VL, et al. **Pharmacology** 1996 Oct;53(4):224–33

n–3 PUFA supplementation, monocyte PCA expression and interleukin–6 production. Abbate R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jun; 54(6):439–44

Liver steatosis and its relation to plasma haemostatic factors in apparently healthy men—role of the metabolic syndrome. Cigolini M, et al. **Thromb Haemost** 1996 Jul; 76(1):69–73

Inhibition rather than enhancement of hemostatic system activation during initiation of oral anticoagulant treatment. Kyrle PA, et al. **Thromb Haemost** 1997 Apr;77(4):685–9

Thrombin–activated human platelets release two NAP–2 variants that stimulate polymorphonuclear leukocytes. Piccardoni P, et al. **Thromb Haemost** 1996 Nov;76(5):780–5

PHARMACOKINETICS

High purity factor IX and prothrombin complex concentrate (PCC): pharmacokinetics and evidence that factor IXa is the thrombogenic trigger in PCC. Philippou H, et al. **Thromb Haemost** 1996 Jul;76(1):23–8

PHARMACOLOGY

Comparison of PAF– and fMLP–induced [Ca2+]i transients in human polymorphonuclear leukocytes. Nowak D, et al. **J Lipid Mediat Cell Signal** 1996 Mar;13(2):163–75

PHYSIOLOGY

Coagulation–dependent inhibition of fibrinolysis: role of carboxypeptidase–U and the premature lysis of clots from hemophilic plasma. Broze GJ Jr, et al. **Blood** 1996 Nov 15;88(10):3815–23

Coagulation and fibrinolysis changes in normal pregnancy. Increased levels of procoagulants and reduced levels of inhibitors during pregnancy induce a hypercoagulable state, combined with a reactive fibrinolysis. Cerneca F, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):31–6

Potential role of platelets and coagulation factors in the metastasis of prostatic cancer. Bhatti RA, et al. **Invasion Metastasis** 1996;16(2):49–55

More inflammatory effects of protease receptors [editorial; comment] Edgington T. **J Clin Invest** 1997 May 15; 99(10):2299. Comment on: J Clin Invest 1997 May 15;99(10):2446–51.

Platelet procoagulant activity is independent of aggregation. Rendu F, et al. **Nouv Rev Fr Hematol** 1995;37(6):327–31

Human umbilical vein smooth muscle cells as a model to study thrombin generation and function: effect of thrombin inhibitors. Catalioto RM, et al. **Thromb Haemost** 1996 Oct; 76(4):603–9

Haemostatic studies in carbohydrate–deficient glycoprotein syndrome type I. Fiumara A, et al. **Thromb Haemost** 1996 Oct;76(4):502–4

The evaluation of thrombomodulin activity in porcine to human xenotransplantation. Lawson JH, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):884–5

[Thrombosis: relation to blood coagulation mechanism] Takahashi H. **Nippon Naika Gakkai Zasshi** 1997 Jun 10; 86(6):883–8 **(Jpn)**

[Significance of the coagulation and fibrinolytic parameters as predictors for carotid atherosclerosis] Nomura E, et al.

BLOOD COAGULATION FACTORS

Rinsho Shinkeigaku 1996 Jun;36(6):741–5 (Eng. Abstr.) **(Jpn)**

SUPPLY & DISTRIBUTION

[Threatened future of plasma products. Who is responsible? (see comments)] Berntorp E, et al. **Lakartidningen** 1996 Oct 2;93(40):3443–4. Comment in: Lakartidningen 1997 Feb 5;94(6):406. **(Swe)**

THERAPEUTIC USE

Indications for administration of fresh frozen plasma and clotting factor concentrates. Muntean W. **Acta Anaesthesiol Scand Suppl** 1996;109:139–41

The effect of non-activated prothrombin complex concentrate (Proplex ST) on intraperitoneal hematoma in a hemophilia A patient with a factor VIII inhibitor. Kagawa H, et al. **Intern Med** 1996 Apr;35(4):319–22

Emergency oral anticoagulant reversal: the relative efficacy of infusions of fresh frozen plasma and clotting factor concentrate on correction of the coagulopathy. Makris M, et al. **Thromb Haemost** 1997 Mar;77(3):477–80

Multicenter retrospective study on the utilization of FEIBA in France in patients with factor VIII and factor IX inhibitors. French FEIBA Study Group. Factor Eight Bypassing Activity. Negrier C, et al. **Thromb Haemost** 1997 Jun;77(6):1113–9

[Nanofiltration in production of Beriplex P/N: increasing the capacity of virus elimination while maintaining product quality] Römisch J, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:220–4 (Eng. Abstr.) **(Ger)**

TOXICITY

In vivo modelling of coagulation factor concentrate thrombogenicity [letter] MacGregor I, et al. **Thromb Haemost** 1997 Feb;77(2):405–6

BLOOD COAGULATION TESTS

Kleibauer-Betke test for pregnant trauma patients [letter; comment] Johnson KH. **Am Fam Physician** 1997 Feb 15; 55(3):781–2. Comment on: Am Fam Physician 1996 Mar;53(4):1269–74.

Are coagulation studies on blood sampled from arterial lines valid? Heap MJ, et al. **Anaesthesia** 1997 Jul;52(7):640–5

Does the platelet-activated clotting test (HemoSTATUS) predict blood loss and platelet dysfunction associated with cardiopulmonary bypass? Ereth MH, et al. **Anesth Analg** 1997 Aug;85(2):259–64

Use of TPA-induced clot lysis time (TCLOT) to diagnose abnormal clot structure and fibrinolysis in a patient with spontaneous bleeding into his leg. Carr ME Jr, et al. **Angiology** 1996 Oct;47(10):941–9

Laboratory evaluation of hemostasis before cardiac operations. de Moerloose P. **Ann Thorac Surg** 1996 Dec; 62(6):1921–5 (57 ref.)

High sensitivity and specificity of a coagulation assay for the detection of heterozygous and homozygous factor V Leiden—based resistance to activated protein C [letter; comment] Riewald M, et al. **Blood** 1996 Dec 1; 88(11):4398–9. Comment on: Blood 1996 May 1;87(9):3531–44.

Pitfalls of protein C assays in patients with activated protein C resistance [letter; comment] Girolami A, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):712–5. Comment on: Blood Coagul Fibrinolysis 1996 Apr;7(3):349–52.

A new global test for the evaluation of the protein C–protein S system. Preda L, et al. **Blood Coagul Fibrinolysis** 1996 Jun;7(4):465–9

Near patient testing (NPT) in haemostasis—a synoptic review. Machin SJ, et al. **Clin Lab Haematol** 1996 Jun; 18(2):69–74

Predicting the presence of plasma heparin using neural networks to analyze coagulation screening assay optical profiles. Givens TB, et al. **Comput Biol Med** 1996 Nov; 26(6):463–76

Monitoring anticoagulant therapy by measuring haemostatic parameters [editorial; comment] Chek JB. **East Afr Med J** 1997 Jan;74(1):1–2 (20 ref.). Comment on: East Afr Med J 1997 Jan;74(1):3–5.

The influence of acute preoperative plasmapheresis on coagulation tests, fibrinolysis, blood loss and transfusion requirements in cardiac surgery. Menges T, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):557–63

Haematology and coagulation indices in paired samples of arterial and venous blood from patients with arterial disease. Blann AD, et al. **Haemostasis** 1996 Mar–Apr; 26(2):72–8

Plasma resistance to activated protein C regulates the activation of coagulation induced by thrombolysis in patients with ischaemic heart disease. Pedersen OD, et al. **Heart** 1997 Feb;77(2):122–7

Heparin detection by the activated coagulation time: a comparison of the sensitivity of coagulation tests and heparin assays. Murray DJ, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):24–8

Anticoagulant response to Agkistrodon contortrix venom (ACV test): a new global test to screen for defects in the anticoagulant protein C pathway. Robert A, et al. **Thromb Haemost** 1996 Apr;75(4):562–6

Evaluation of original and modified APC-resistance tests in unselected outpatients with clinically suspected thrombosis and in healthy controls. Svensson PJ, et al. **Thromb Haemost** 1997 Feb;77(2):332–5

Screening for the FV:Q506 mutation—evaluation of thirteen plasma-based methods for their diagnostic efficacy in comparison with DNA analysis. Tripodi A, et al. **Thromb Haemost** 1997 Mar;77(3):436–9

APC-resistance as measured by a Textarin time assay: comparison to the APTT-based method. Hoagland LE, et al. **Thromb Res** 1996 Sep 1;83(5):363–73

[Changes in coagulation physiology and rheology after preoperative normovolemic hemodilution] Hensel M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):481–7 (Eng. Abstr.) **(Ger)**

[Value of preoperative blood coagulation analysis for assessment of hemorrhage risk in general surgery] Kussmann I, et al. **Chirurg** 1997 Jul;68(7):684–8 (Eng. Abstr.) **(Ger)**

[Blood coagulation self-control (editorial)] Heinzl S. **Med Monatsschr Pharm** 1996 Oct;19(10):283 **(Ger)**

[Problems on emergency laboratory tests for blood cell counts (BCC) and coagulation] Takubo T, et al. **Rinsho Byori** 1996 Oct;44(10):952–5 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Blood coagulation tests] Watanabe K. **Rinsho Byori** 1996 Nov;Suppl 103:139–42 **(Jpn)**

INSTRUMENTATION

Coagulation assessment at the bedside [letter] Engelhardt T, et al. **Anaesthesia** 1997 Aug;52(8):810–1

Incompatibility of a recombinant thromboplastin and an APTT reagent on a fully automated coagulation analyzer [letter] Kappelmayer J, et al. **Blood Coagul Fibrinolysis** 1997 Jun;8(4):251–2

Clinical evaluation of a microsample coagulation analyzer, and comparison with existing techniques. Carter AJ, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):97–102

Summary evaluation of the Sysmex CA-6000 coagulation analyzer. Gosselin RC, et al. **Clin Chem** 1997 Sep; 43(9):1783–5

Effect of Hemopure on prothrombin time and activated partial thromboplastin time on seven coagulation analyzers. Moreira PL, et al. **Clin Chem** 1997 Sep;43(9):1792

Comparison of hemorrhagic effect of heparin and human activated protein C with use of Thrombostat 4000. Katsuura Y, et al. **Haemostasis** 1996 Jul–Aug;26(4):203–9

Whole blood coagulation analyzers. **Health Devices** 1997 Aug;26(8):296–332

Quality control problems with ITC's coagulation reagent tubes. **Health Devices** 1996 Jul;25(7):263

The MDA-180 coagulation analyser: a laboratory evaluation. Mohammed A, et al. **Pathology** 1997 May;29(2):176–83

Instrument effect on the activated protein C resistance plasma assay performed by a commercial kit. De Stefano V, et al. **Thromb Haemost** 1996 May;75(5):752–6

[A hematologic coagulation monitoring system for bedside use] Matsumoto K, et al. **Masui** 1996 Dec;45(12):1525–8 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of heparin concentration and activated clotting time monitoring (HEPCON HMS) system] Sakurada T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):836–40 (Eng. Abstr.) **(Jpn)**

[Initial evaluation of the ACL-Futura coagulation analyzer] Aulesa C, et al. **Sangre (Barc)** 1996 Dec;41(6):417–26 (Eng. Abstr.) **(Spa)**

METHODS

Assays for thrombosis factors: relations to plasma lipids. Tracy RP. **Am J Clin Nutr** 1997 May;65(5 Suppl):1669S–1673S (43 ref.)

Sensitivity and specificity of the APC resistance assay in detection of individuals with factor V(Leiden) [letter; comment] Amin HM, et al. **Am J Clin Pathol** 1997 Jun; 107(6):713–5. Comment on: Am J Clin Pathol 1996 Jul;106(1):107–11.

Prothrombin time and activated partial thromboplastin time can be performed on the first tube. Gottfried EL, et al. **Am J Clin Pathol** 1997 Jun;107(6):681–3

The clinical application of a new specific functional assay to detect the factor V(Leiden) mutation associated with activated protein C resistance. van Oerle R, et al. **Am J Clin Pathol** 1997 May;107(5):521–6

Evaluation of a tissue factor dependent factor V assay to detect factor V Leiden: demonstration of high sensitivity and specificity for a generally applicable assay for activated protein C resistance. Liebman HA, et al. **Br J Haematol** 1996 Dec;95(3):550–3

In vitro effects of a novel hemoglobin-based oxygen carrier on routine chemistry, therapeutic drug, coagulation, hematology, and blood bank assays. Callas DD, et al. **Clin Chem** 1997 Sep;43(9):1744–8

Factor X values as a means to assess the extent of oral anticoagulation in patients receiving antithrombin drugs. Hoppensteadt DA, et al. **Clin Chem** 1997 Sep;43(9):1786–8

Point-of-care fibrinolytic tests: the other side of blood coagulation. Oberhardt BJ, et al. **Clin Chem** 1997 Sep; 43(9):1697–702

Coagulation monitor based on serum migration through absorbent materials. Wilson PE. **Clin Chem** 1997 Sep; 43(9):1716–8

Effect of age, gender, and platelet count on Sonoclot coagulation analysis in patients undergoing orthopedic operations. Horlocker TT, et al. **Mayo Clin Proc** 1997 Mar; 72(3):214–9

Laboratory diagnosis of resistance to activated protein C (APC-resistance). Bertina RM. **Thromb Haemost** 1997 Jul; 78(1):478–82 (71 ref.)

Effects of platelets and white blood cells and antiplatelet agent C7E3 (Reopro) on a new test of PAF procoagulant activity of whole blood. Despotis GJ, et al. **Thromb Res** 1997 May 1;86(3):205–19

An improved test to identify aPC-resistant factor V-Leiden. Preda L, et al. **Thromb Res** 1997 Jun 15;86(6):461–8

Optimisation of platelet aggregometry utilising micotitreplate technology and integrated software. Salmon DM. **Thromb Res** 1996 Nov 1;84(3):213–6

Accuracy of two newly described D-dimer tests in patients with suspected deep venous thrombosis. Scarano L, et al. **Thromb Res** 1997 Apr 15;86(2):93–9

A new modification of the APC resistance test. Vinazzer H. **Thromb Res** 1997 Apr 1;86(1):69–72

[Hemostasis and tests used to investigate it] Verdy E. **Prog Urol** 1997 Apr;7(2):320–5 (3 ref.) (Eng. Abstr.) **(Fre)**

[Evaluation of sensitivity and specificity of confirmatory assays for lupus anticoagulant (LA) detection] Imoto K, et al. **Rinsho Byori** 1996 Aug;44(8):797–801 (Eng. Abstr.) **(Jpn)**

STANDARDS

Long-term French experience in INR standardization by a procedure using plasma calibrants. Houbouyan LL, et al. **Am J Clin Pathol** 1997 Jul;108(1):83–9

Effect of citrate concentration in specimen collection tubes on the International Normalized Ratio. Danielson CF, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):956–9

Factor V Leiden-like behaviour of animal plasma and its use for calibration of activated protein C-dependent assays. Kraus M, et al. **Blood Coagul Fibrinolysis** 1996 Apr; 7(3):295–302

A proposed model to monitor heparin therapy using the concentrated thrombin time which allows standardisation of reagents and improved estimation of heparin concentrations. Ray MJ, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):515–21

Reliability of delayed INR determination: implications for decentralized anticoagulant care with off-site blood sampling [see comments] Baglin T, et al. **Br J Haematol** 1997 Mar;96(3):431–4. Comment in: Br J Haematol 1997 Jun;97(4):936–7.

International Normalized Ratio determination using calibrated reference plasmas. Hubbard AR, et al. **Br J Haematol** 1997 Jul;98(1):74–8

System ISI calibration: a universally applicable scheme is possible only when coumarin plasma calibrants are used. Stevenson KJ, et al. **Br J Haematol** 1997 Mar;96(3):435–41

Effect of sample storage on the International Normalized Ratio [letter; comment] Vadher BD, et al. **Br J Haematol** 1997 Jun;97(4):936–7. Comment on: Br J Haematol 1997 Mar;96(3):431–4.

The MDA-180 coagulation analyser: a laboratory evaluation. Mohammed A, et al. **Pathology** 1997 May;29(2):176–83

Preanalytical phase in coagulation testing: state of the art in the laboratories of the Piedmont region, Italy [published erratum appears in Scand J Clin Lab Invest 1997 Feb;57(1):95–6] Moraglio D, et al. **Scand J Clin Lab Invest** 1996 Dec;56(8):735–42

Potentially clinically important inaccuracies in testing for the lupus anticoagulant: an analysis of results from three surveys of the UK National External Quality Assessment Scheme (NEQAS) for Blood Coagulation. Jennings I, et al. **Thromb Haemost** 1997 May;77(5):934–7

TRENDS

Preanalytical phase in coagulation testing: state of the art in the laboratories of the Piedmont region, Italy [published erratum appears in Scand J Clin Lab Invest 1997 Feb;57(1):95–6] Moraglio D, et al. **Scand J Clin Lab Invest** 1996 Dec;56(8):735–42

BLOOD COAGULATION TIME, WHOLE see **WHOLE BLOOD COAGULATION TIME**

BLOOD COMPONENT REMOVAL

Assessing the efficiency of leukoreduction of cellular blood components. Use of a simplified formalin-fixation and batch-counting method. Narvios AB, et al. **Am J Clin Pathol** 1997 Jan;107(1):111–3

Effect of apheresis of low-density lipoprotein on peripheral vascular disease in hypercholesterolemic patients with coronary artery disease. Kroon AA, et al. **Ann Intern Med** 1996 Dec 15;125(12):945–54

Prevention of restenosis after coronary angioplasty with low-density lipoprotein apheresis. Adachi H, et al. **Artif Organs** 1995 Dec;19(12):1243–7

Treatment of homozygous familial hypercholesterolemia with low density lipoprotein apheresis: a 4 year follow-up study. Fadul JE, et al. **Artif Organs** 1997 May;21(5):364–8

Low density lipoprotein-apheresis decreases oxidized low density lipoproteins and monocyte adhesion to endothelial cells. Cattin L, et al. **ASAIO J** 1997 May–Jun;43(3):209–13

Efficacy and safety of immunoglobulin apheresis. Richter WO, et al. **ASAIO J** 1997 Jan-Feb;43(1):53-9

Decreased susceptibility of low-density lipoproteins to in-vitro oxidation after dextran-sulfate LDL-apheresis treatment. Leitinger N, et al. **Atherosclerosis** 1996 Oct 25; 126(2):305-12

Peripheral vasoactivity in familial hypercholesterolemic subjects treated with heparin-induced extracorporeal LDL precipitation (HELP). Stadler RW, et al. **Atherosclerosis** 1997 Feb 10;128(2):241-9

Activation of coagulation by a LDL-apheresis device. Giansante C, et al. **Blood Coagul Fibrinolysis** 1996 Jun; 7(4):447-52

Peripheral blood progenitor cell (PBPC) transplantation with a single apheresis in various malignancies [letter] Efremidis AP, et al. **Bone Marrow Transplant** 1996 Apr;17(4):673-4

Allogeneic peripheral blood stem cell transplantation using normal patient-related pediatric donors. Körbling M, et al. **Bone Marrow Transplant** 1996 Nov;18(5):885-90

Tumor contamination in stem cell products from patients with neuroblastoma and breast cancer. Moss TJ. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S17

The role of low-density lipoprotein apheresis as postoperative care of bypass grafting for chronic arterial occlusion. Takagi M, et al. **Cardiovasc Surg** 1996 Aug; 4(4):459-65

Single LDL apheresis improves endothelium-dependent vasodilatation in hypercholesterolemic humans [see comments] Tamai O, et al. **Circulation** 1997 Jan 7; 95(1):76-82. Comment in: Circulation 1997 Jan 7;95(1):5-7.

Apheresis. New opportunities. Bandarenko N, et al. **Clin Lab Med** 1996 Dec;16(4):907-29 (139 ref.)

Long-term low-density lipoprotein immunoapheresis in renal disease. Derfler K. **Contrib Nephrol** 1997;120:105-19

Current status of low density lipoprotein-apheresis for the therapy of severe hyperlipidemia. Gordon BR, et al. **Curr Opin Lipidol** 1996 Dec;7(6):381-4 (31 ref.)

Angiographic trials of lipid-lowering therapy: an update. Mancini GB. **Curr Opin Lipidol** 1995 Dec;6(6):379-85 (13 ref.)

LDL apheresis reduces the susceptibility of LDL to in vitro oxidation in a diabetic patient with hemodialysis treatment. Inoue I, et al. **Diabetes Care** 1996 Oct;19(10):1103-7

Improvement of myocardial perfusion after low-density lipoprotein apheresis treatment [letter] Jovin IS, et al. **Eur Heart J** 1997 Mar;18(3):531-2

LDL-apheresis significantly reduces urinary apo(a) excretion. Kostner KM, et al. **Eur J Clin Invest** 1997 Jan; 27(1):93-5

Change in hemorrheological and biochemical parameters following membrane differential filtration. Brunner R, et al. **Int J Artif Organs** 1995 Dec;18(12):794-8

Changes in bradykinin and prostaglandins plasma levels during dextran-sulfate low-density-lipoprotein apheresis. Kojima S, et al. **Int J Artif Organs** 1997 Mar;20(3):178-83

Monitoring sodium removal and delivered dialysis by conductivity. Locatelli F, et al. **Int J Artif Organs** 1995 Nov;18(11):716-21

Four years' treatment efficacy of patients with severe hyperlipidemia. Lipid lowering drugs versus LDL-apheresis. Schiel R, et al. **Int J Artif Organs** 1995 Dec;18(12):786-93

Qualitative assessment of blood washing with the continuous autologous transfusion system (CATS). Walpoth BH, et al. **Int J Artif Organs** 1997 Apr;20(4):234-9

Low density lipoprotein apheresis improves regional myocardial perfusion in patients with hypercholesterolemia and extensive coronary artery disease. LDL-Apheresis Atherosclerosis Regression Study (LAARS). Aengevaeren WR, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1696-704

Low-density lipoprotein-apheresis in two patients with extremely elevated lipoprotein (a) levels. Bambauer R, et al. **J Clin Apheresis** 1996;11(2):78-80

Lipid apheresis in an animal model causes in vivo changes in lipoprotein electrophoretic patterns. Cham BE, et al. **J Clin Apheresis** 1996;11(2):61-70

Apheresis in grade 4 bone marrow transplant associated thrombotic microangiopathy: a case series. Dua A, et al. **J Clin Apheresis** 1996;11(4):176-84 (39 ref.)

An overview of therapeutic apheresis in pediatrics. Galacki DM. **J Clin Apheresis** 1997;12(1):1-3 (9 ref.)

A new treatment of refractory ascites: ascitoapheresis [letter] Stefanutti C, et al. **J Clin Apheresis** 1996;11(1):46-7

Anti-dsDNA antibody kinetics during in vivo apheresis in systemic lupus erythematosus patients and in an in vitro apheresis model. Suzuki K, et al. **J Clin Apheresis** 1996; 11(4):211-6

Regression of transplant coronary artery disease during chronic low-density lipoprotein-apheresis. Park JW, et al. **J Heart Lung Transplant** 1997 Mar;16(3):290-7

Preapheresis peripheral blood CD34+ mononuclear cell counts as predictors of progenitor cell yield. Benjamin RJ, et al. **Transfusion** 1997 Jan;37(1):79-85

The presurgical management with erythrocytapheresis of a patient with a high-oxygen-affinity, unstable Hb variant (Hb Bryn Mawr). Larson PJ, et al. **Transfusion** 1997 Jul; 37(7):703-7

Analysis of apheresis content of progenitor cell collections from normal donors to whom granulocyte-colony-stimulating factor is administered. Weinthal JA, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):943-7

Apheresis and column absorption for specific removal of Gal-alpha-1,3 Gal natural antibodies in a pig-to-baboon model. Kozlowski T, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):961

[Chronic myeloproliferative diseases. Erythrocyte apheresis in polycythemia vera (letter)] Kaboth U, et al. **Dtsch Med Wochenschr** 1996 Nov 22;121(47):1483 **(Ger)**

[Heparin-induced extracorporeal LDL precipitation (HELP) in therapy refractory hypercholesterolemia and coronary heart disease: effect on clinical and morphological regression of coronary sclerosis] Schuff-Werner P. **Z Kardiol** 1997;86 Suppl 1:57-64 (30 ref.) (Eng. Abstr.) **(Ger)**

[Complete remission of steroid-resistant minimal-change nephrotic syndrome by cyclosporin after additional low-density lipoprotein apheresis treatment] Okada T, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):46-51 (Eng. Abstr.) **(Jpn)**

[A method to eliminate lipids from blood plasma in hyperlipidemias to measure activities of proteinases and their inhibitors] Belova LA, et al. **Klin Lab Diagn** 1996 May-Jun;(3):50-1 **(Rus)**

ADVERSE EFFECTS

LDL apheresis with dextran sulfate and angiotension receptor antagonist (Losartan). Elicio N, et al. **Artif Organs** 1997 Apr;21(4):334-5

Microbial contamination of peripheral blood stem cell collections. Attarian H, et al. **Bone Marrow Transplant** 1996 May;17(5):699-702

Mechanisms of adverse effects during hemapheresis. Strauss RG. **J Clin Apheresis** 1996;11(3):160-4 (31 ref.)

Anaphylactoid reactions during dextran apheresis may occur even in the absence of ACE-inhibitor administration [letter] Schwarzbeck A, et al. **Nephrol Dial Transplant** 1997 May; 12(5):1083-4

[Reducing the infectious risk of labile blood products] Noël L. **Presse Med** 1997 Apr 26;26(14):685-90 (29 ref.) **(Fre)**

[Apheresis tolerance and acceptability in the child weighing 30 kg or less, with the exception of infants] Girard J, et al. **Transfus Clin Biol** 1996;3(5):297-304 (Eng. Abstr.) **(Fre)**

ECONOMICS

[European plasma at risk to be eleminated. The prize is too high when compared with the USA] Blombäck M, et al. **Lakartidningen** 1997 Jan 8;94(1-2):15-6 **(Swe)**

INSTRUMENTATION

Tunneled, double lumen Broviac catheters are useful, efficient and safe in children undergoing peripheral blood progenitor cell harvesting and transplantation. Leibundgut K, et al. **Bone Marrow Transplant** 1996 Apr;17(4):663-7

Biocompatibility of alumina ceramic and polyethylene as materials for pivot bearings of a centrifugal blood pump. Takami Y, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):381-6

Evaluation of a new protocol for peripheral blood stem cell collection with the Fresenius AS 104 cell separator. Menichella G, et al. **J Clin Apheresis** 1997;12(2):82-6

[Automated blood component collection with the MCS 3p] Zeiler T, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:145-9 (Eng. Abstr.) **(Ger)**

[H.E.L.P. therapy (heparin-induced extracorporeal LDL precipitation) in sudden deafness] Walch C, et al. **Laryngorhinootologie** 1996 Nov;75(11):641-5 (Eng. Abstr.) **(Ger)**

METHODS

Apheresis. Nilsson IM, et al. **Adv Exp Med Biol** 1995; 386:175-84

Pulsed flow cascade filtration. Long-term experience in low density lipoprotein and lipoprotein a removal. Legallais C, et al. **ASAIO J** 1996 Sep-Oct;42(5):M463-7

Improved automated bone marrow processing and enrichment of CD34+ cells by a large-volume apheresis procedure. Cassens U, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:175-9

Rapid engraftment without significant graft-versus-host disease after allogeneic transplantation of CD34+ selected cells from peripheral blood. Urbano-Ispizua A, et al. **Blood** 1997 Jun 1;89(11):3967-73

A new method for placental/cord blood processing in the collection bag. I. Analysis of factors involved in red blood cell removal. Bertolini F, et al. **Bone Marrow Transplant** 1996 Oct;18(4):783-6

Efficacy and kinetics of bone marrow processing and enrichment of haematopoietic progenitor cells (HPC) by a large-volume apheresis procedure. Cassens U, et al. **Bone Marrow Transplant** 1997 Apr;19(8):835-40

The absolute number of circulating CD34+ cells predicts the number of hematopoietic stem cells that can be collected by apheresis. Schots R, et al. **Bone Marrow Transplant** 1996 Apr;17(4):509-15

The dielectrophoresis enrichment of CD34+ cells from peripheral blood stem cell harvests. Stephens M, et al. **Bone Marrow Transplant** 1996 Oct;18(4):777-82

A rapid nylon-fiber syringe system to deplete CD14+ cells for positive selection of human blood CD34+ cells. Use of immunomagnetic microspheres. Yamaguchi M, et al. **Bone Marrow Transplant** 1997 Feb;19(4):373-9

The alkyl-lysophospholipid, ET-18-OCH3 synergistically enhances the Merocyanine 540-mediated photoinactivation of leukemia cells: implications for the extracorporeal purging of autologous hematopoietic stem cells [published erratum appears in Bone Marrow Transplant 1997 Jul;20(1):95] Yamazaki T, et al. **Bone Marrow Transplant** 1997 Jan;19(2):113-9

Separation of peripheral blood derived stem cells in children. Zingsem J, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S15-6

Antioxidant status of hypercholesterolemic patients treated with LDL apheresis. Lepage S, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):567-71

Lecithin-cholesterol acyltransferase activity in normocholesterolaemic and hypercholesterolaemic roosters: modulation by lipid apheresis. Kostner KM, et al. **Eur J Clin Invest** 1997 Mar;27(3):212-8

Prospective cross-over comparisons of three low-density lipoprotein (LDL)-apheresis methods in patients with familial hypercholesterolaemia. Schaumann D, et al. **Eur J Clin Invest** 1996 Nov;26(11):1033-8

Long term effect of LDL apheresis on coronary heart disease. Donner MG, et al. **Eur J Med Res** 1997 Jun 16;2(6):270-4

Characterization of the biophysical properties of human erythroblasts as a preliminary step to the isolation of fetal erythroblasts from maternal peripheral blood for non invasive prenatal genetic investigation. Sitar G, et al. **Haematologica** 1997 Jan-Feb;82(1):5-10

Erythrocyte depletion of human umbilical cord blood using dextran sedimentation. Tanavde VM, et al. **Indian J Med Res** 1997 Jul;106:16-9

Low-density lipoprotein apheresis using the Liposorber dextran sulfate cellulose system for patients with hypercholesterolemia refractory to medical therapy. Gordon BR, et al. **J Clin Apheresis** 1996;11(3):128-31 (23 ref.)

Comparing low-density lipoprotein apheresis procedures: difficulties and remedies [letter] Jovin IS, et al. **J Clin Apheresis** 1996;11(3):168-70

Remission of a refractory nephrotic syndrome after low-density lipoprotein apheresis based on dextrane sulphate adsorption. Faucher C, et al. **Nephrol Dial Transplant** 1997 May;12(5):1037-9

Blood spillage during salvage. Bengtson JP, et al. **Transfus Med** 1997 Jun;7(2):101-6

Comparison of two blood cell separators in collecting peripheral blood stem cell components. Stroncek DF, et al. **Transfus Med** 1997 Jun;7(2):95-9

A comparative analysis of different methods for routine blood component preparation. Heaton WA, et al. **Transfus Med Rev** 1997 Apr;11(2):116-29

Automatic volumetric capillary cytometry for counting white cells in white cell-reduced plateletpheresis components. Adams MR, et al. **Transfusion** 1997 Jan; 37(1):29-37

Comparison of random-donor platelet concentrates prepared from whole blood units and platelets prepared from single-donor apheresis collections. Sloand EM, et al. **Transfusion** 1996 Nov-Dec;36(11-12):955-9

Immunoapheresis, an advanced technique for depleting human anti-porcine antibodies, delays hyperacute rejection of xenogeneic perfused pig livers. Pascher A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):962-3

Application of immunoapheresis for delaying hyperacute rejection during isolated xenogeneic pig liver perfusion. Pascher A, et al. **Transplantation** 1997 Mar 27;63(6):867-75

NURSING

Nursing care of the blood cell transplant recipient. Buchsel PC, et al. **Semin Oncol Nurs** 1997 Aug;13(3):172-83 (39 ref.)

STANDARDS

Organizational guidelines for therapeutic apheresis facilities. American Society for Apheresis Standards and Education Committee. **J Clin Apheresis** 1996;11(1):42-5

Efficacy of autotransfusion in spine surgery: comparison of autotransfusion alone and with hemodilution and apheresis. Blais RE, et al. **Spine** 1996 Dec 1;21(23):2795-800

TRENDS

Lipid apheresis: from a heroic treatment to routine clinical practice. Bosch T. **Artif Organs** 1996 May;20(5):414-9 (29 ref.)

BLOOD COMPONENT TRANSFUSION

Indications for administration of fresh frozen plasma and clotting factor concentrates. Muntean W. **Acta Anaesthesiol Scand Suppl** 1996;109:139-41

Coagulopathy in severe closed head injury: is empiric therapy warranted? May AK, et al. **Am Surg** 1997 Mar;63(3):233-6; discussion 236-7

Controversy over high-dose chemotherapy [letter] Glück S. **Can Fam Physician** 1996 Jan;42:28, 30

The effecis of a self-educating blood component request form and enforcements of transfusion guidelines on FFP and platelet usage. Queen Mary Hospital, Hong Kong. British Committee for Standards in Hematology (BCSH). Cheng G, et al. **Clin Lab Haematol** 1996 Jun;18(2):83-7

The influence of acute preoperative plasmapheresis on coagulation tests, fibrinolysis, blood loss and transfusion requirements in cardiac surgery. Menges T, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):557–63

Surgical treatment of full–thickness macular holes using autologous serum. Wells JA, et al. **Eye** 1996;10 (Pt 5):593–9

How accurate is serologic testing of plasma pools for hepatitis B virus surface antigen, anti–human immunodeficiency virus 1 and 2, and anti–hepatitis C virus? [see comments] Rabenau H, et al. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):124–30. Comment in: Infusionsther Transfusionsmed 1996 Jun;23(3):122–3.

A new retroviral AIDS–like disease and/or acute leukemia induced in mice by alloimmune stimuli. Ter–Grigorov V, et al. **Leukemia** 1997 Apr;11 Suppl 3:263–6

Viral infectivity of albumin and plasma protein fraction. Erstad BL. **Pharmacotherapy** 1996 Nov–Dec; 16(6):996–1001 (47 ref.)

Granulocyte transfusion therapy. Klein HG, et al. **Semin Hematol** 1996 Oct;33(4):359–68 (65 ref.)

Experimental haemorrhage and blood component transfusion in humans: no change in plasma concentration of thrombin–antithrombin complex and plasmin–antiplasmin complex. Henriksson AE, et al. **Thromb Res** 1996 Jun 1; 82(5):409–15

Transfusion– and community–acquired cytomegalovirus infection in children with malignant disease: a prospective study. Preiksaitis JK, et al. **Transfusion** 1997 Sep; 37(9):941–6

Risk of virus transmission by tissue, blood, and plasma products. Lelie PN, et al. **Transplant Proc** 1996 Oct; 28(5):2939

Safety of blood products derived from plasma pools: the positive impact of anti–HCV screening on the quality of such products. da Silva Cardoso M, et al. **Vox Sang** 1996; 71(3):184–6

Blood components––transfusion support in post–transfusion purpura due to HPA–1a Immunization [letter] Win N, et al. **Vox Sang** 1996;71(3):191–3

[Use of leukocyte–depleted blood components (editorial)] Jersild C. **Ugeskr Laeger** 1997 Aug 18;159(34):5070 **(Dan)**

[Flow cytometry analysis of CD34 expressing hematopoietic cells in blood and cytapheresis products] Gutensohn K, et al. **Infusionsther Transfusionsmed** 1996 Jun;23 Suppl 2:1–23 (68 ref.) **(Ger)**

[Therapy with blood and blood products] Kreienbühl G. **Urologe A** 1996 Jan;35(1):69–85 (46 ref.) **(Ger)**

[Use of blood preparations for patients of perioperative period] Takaori M. **Masui** 1996 Dec;45 Suppl:S173–8 (16 ref.) **(Jpn)**

[Treatment of full–thickness macular holes with autologous serum] Kutsuna M, et al. **Nippon Ganka Gakkai Zasshi** 1997 May;101(5):407–12 (Eng. Abstr.) **(Jpn)**

[Reality and important points of whole and component blood transfusion] Nagao T. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):795–800 (6 ref.) **(Jpn)**

[Hematologic diseases and blood transfusion] Ueda T, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):857–61 (4 ref.) **(Jpn)**

[The organization of the donation of autologous blood and its components in cardiac surgery] Shevchenko IuL, et al. **Vestn Khir Im I I Grek** 1996;155(5):71–4 (Eng. Abstr.) **(Rus)**

[New therapy with blood components in vascular diseases of fundus oculi] Mykha AI. **Vestn Oftalmol** 1997 May–Jun; 113(3):17–8 (Eng. Abstr.) **(Rus)**

[Use of leukocyte–depleted blood in patients treated with hemodialysis] Vavić N, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:133–5 (Eng. Abstr.) **(Scc)**

[Threatened future of plasma products. Who is responsible? (see comments)] Berntorp E, et al. **Lakartidningen** 1996 Oct 2;93(40):3443–4. Comment in: Lakartidningen 1997 Feb 5;94(6):406. **(Swe)**

[Continuous rational handling of plasma products is necessary (letter; comment)] Hammarström L. **Lakartidningen** 1997 Feb 5;94(6):406. Comment on: Lakartidningen 1996 Oct 2;93(40):3443–4. **(Swe)**

[The plasma market––special interests should not dominate (letter)] Stenberg P. **Lakartidningen** 1997 Feb 5;94(6):406 **(Swe)**

ADVERSE EFFECTS

Pilot study of HLA alloimmunization after transfusion with pre–storage leucodepleted blood products in aplastic anaemia. Killick SB, et al. **Br J Haematol** 1997 Jun; 97(3):677–84

Quantative aspects of transfusion–transmitted retrovirus–induced lymphoproliferative disease in mice. Thacore HR, et al. **J Clin Lab Immunol** 1995;46(3):97–109

Killing yersinia enterocolitica [letter; comment] Högman CF. **J Clin Pathol** 1996 Nov;49(11):955. Comment on: J Clin Pathol 1996 May;49(5):434–6.

The prevalence of hepatitis C in survivors of paediatric malignancy. Carter TL, et al. **J Paediatr Child Health** 1997 Jun;33(3):238–41

Postoperative infection after colorectal surgery [letter; comment] Houbiers JG, et al. **Lancet** 1996 Dec 14; 348(9042):1665–6. Comment on: Lancet 1996 Sep 28;348(9031):841–5.

Transfusion–associated graft–versus–host disease in ataxia telangiectasia [letter] Watson HG, et al. **Lancet** 1997 Jan 18;349(9046):179

Relationship of the time of storage and transfusion reactions to platelet concentrates from buffy coats. Riccardi D, et al. **Transfusion** 1997 May;37(5):528–30

Transmission of hepatitis C via both erythrocyte and platelet transfusions from a single donor in serological window–phase of hepatitis C. Widell A, et al. **Vox Sang** 1996;71(1):55–7

The potential for bacterial testing of blood products [editorial] Wagner SJ. **Zentralbl Bakteriol** 1996 Mar; 283(3):253–7

[Reducing the infectious risk of labile blood products] Noël L. **Presse Med** 1997 Apr 26;26(14):685–90 (29 ref.) **(Fre)**

ECONOMICS

Treatment for haemophilia by calendar in Hungary [letter; comment] Sas G. **BMJ** 1997 Jun 28;314(7098):1907. Comment on: BMJ 1997 Mar 8;314(7082):749.

METHODS

Practical issues in neonatal transfusion practice. Strauss RG. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S57–63 (32 ref.)

Practice guidelines for blood component therapy [letter] Günter P. **Anesthesiology** 1996 Nov;85(5):1219–20

'Practice guidelines for blood component therapy' summarized. Weiskopf RB. **West J Med** 1997 Mar; 166(3):204–5

STANDARDS

Practical aspects of the self–assessment of the issue and administration of blood: a review of two hospitals' experiences. Shulman IA, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S17–22 (13 ref.)

[Viral attenuation of labile blood products] Folléa G, et al. **Transfus Clin Biol** 1996;3(2):113–23 (84 ref.) (Eng. Abstr.) **(Fre)**

STATISTICS & NUMERICAL DATA

The impact of red cell substitutes on the blood service in Japan. Sekiguchi S. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):53–60

[Chronic transfusion hepatitis––an underestimated disease] Henschel M, et al. **Med Klin** 1996 Jul 15;91(7):438–41 (Eng. Abstr.) **(Ger)**

TRENDS

Optimising the safety of blood products [editorial; comment] Pauli G. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):122–3. Comment on: Infusionsther Transfusionsmed 1996 Jun;23(3):124–30.

UTILIZATION

Trends in the utilization of blood components in San Pablo Hospital; 1991–1996. Hunter Mellado R. **Bol Asoc Med P R** 1997 Jan–Mar;89(1–3):4–8

VETERINARY

[Hemophilia A in the dog: symptoms, blood coagulation analysis and treatment] Mischke R, et al. **Berl Munch Tierarztl Wochenschr** 1996 Aug;109(8):279–87 (Eng. Abstr.) **(Ger)**

BLOOD COUNT, COMPLETE see **BLOOD CELL COUNT**

BLOOD DISEASES see **HEMATOLOGIC DISEASES**

BLOOD DONORS

Prevalence of HIV1 in leprosy patients in Rio de Janeiro, Brazil. Andrade VL, et al. **Acta Leprol** 1997;10(3):159–63

Screening for coeliac disease in apparently healthy blood donors. Grodzinsky E. **Acta Paediatr Suppl** 1996 May; 412:36–8

Risk factor analysis and serological diagnosis of HIV–1/HIV–2 infection in a Brazilian blood donor population: validation of the World Health Organization strategy for HIV testing. Carvalho MB, et al. **AIDS** 1996 Sep;10(10):1135–40

Estimated rate of HIV–1–infectious but seronegative blood donations in Bangkok, Thailand. Kitayaporn D, et al. **AIDS** 1996 Sep;10(10):1157–62

Practical aspects of preoperative autologous transfusion. Yomtovian R. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S28–35 (63 ref.)

Unscreened transfusion related human immunodeficiency virus type–I infection amongst Indian thalassemic children [letter] Kumar RM, et al. **Am J Hematol** 1996 Sep; 53(1):51–2

A recombination hot spot in the Rh genes revealed by analysis of unrelated donors with the rare D–– phenotype [published erratum appears in Am J Hum Genet 1997 Mar;60(3):749] Kemp TJ, et al. **Am J Hum Genet** 1996 Nov;59(5):1066–73

Improving the efficacy of preoperative autologous blood donation in patients with low hematocrit: a randomized, double–blind, controlled trial of recombinant human erythropoietin. Price TH, et al. **Am J Med** 1996 Aug 26; 101(2A):22S–27S

A study of treponema pallidum haemagglutination positive blood donors in Singapore. Khoo LS, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):215–7

Anti–HCV envelope prevalence in blood donors from Baden–Württemberg. da Silva Cardoso M, et al. **Ann Hematol** 1997 Mar;74(3):135–7

Cord blood as an alternative source of haemopoietic stem cells. Hows J, et al. **Ann Oncol** 1996;7 Suppl 2:47–51 (19 ref.)

New test for HIV in blood donors [news] **AORN J** 1996 Aug;64(2):284

Seroprevalence of HTLV–I/II in blood donors in Monterrey, Mexico. Trejo–Avila LM, et al. **Arch Med Res** 1996 Spring; 27(1):97–9

Progress toward preparation of universal donor red cells. Hortin GL, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):487–91

The prevalence of antinuclear, anti–dsDNA, anti–Sm and anti–RNP antibodies in a group of healthy blood donors. Azizah MR, et al. **Asian Pac J Allergy Immunol** 1996 Dec; 14(2):125–8

G–CSF stimulated donor granulocyte collections for prophylaxis and therapy of neutropenic sepsis. Grigg A, et al. **Aust N Z J Med** 1996 Dec;26(6):813–8

Anti–cardiolipin antibodies in blood donors. Panton JA, et al. **Biochem Soc Trans** 1997 May;25(2):320S

Spontaneous splenic rupture following administration of granulocyte colony–stimulating factor (G–CSF): occurrence in an allogeneic donor of peripheral blood stem cells. Becker PS, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):45–9

Allogeneic blood stem cell transplantation: considerations for donors [editorial] Anderlini P, et al. **Blood** 1997 Aug 1; 90(3):903–8

Peripheral blood stem cell apheresis in normal donors: the neglected side [letter; comment] Anderlini P, et al. **Blood** 1996 Nov 1;88(9):3663–4. Comment on: Blood 1996 Jun 1;87(11):4916–7.

Low thrombosis rate seen in blood donors and their relatives with inherited deficiencies of antithrombin and protein C: correlation with type of defect, family history, and absence of the factor V Leiden mutation. McColl M, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):689–94

Whole blood viscosity, blood pressure and cardiovascular risk factors in healthy blood donors. Fossum E, et al. **Blood Press** 1997 May;6(3):161–5

Transfusion–associated graft–versus–host disease and its prevention. Williamson LM, et al. **Blood Rev** 1995 Dec; 9(4):251–61 (74 ref.)

Blood donation, body iron stores, and risk of myocardial infarction. Confidence intervals and possible selection bias call study results into question [letter; comment] Hemilä H, et al. **BMJ** 1997 Jun 21;314(7097):1830–1. Comment on: BMJ 1997 Mar 15;314(7083):793–4.

Direct HIV testing of donated blood is inevitable [news] [see comments] Legge A. **BMJ** 1997 May 17;314(7092):1437. Comment in: BMJ 1997 Jul 5;315(7099):60.

Cohort study of relation between donating blood and risk of myocardial infarction in 2682 men in eastern Finland [see comments] Tuomainen TP, et al. **BMJ** 1997 Mar 15; 314(7083):793–4. Comment in: BMJ 1997 Jun 21;314(7097):1830–1.

Lack of antibodies to the envelope glycoproteins of hepatitis C virus in immunoglobulin preparations from screened donors. Piazza M, et al. **Boll Soc Ital Biol Sper** 1996 Jan–Feb;72(1–2):69–70

Significance of the presence of antibodies against hepatitis C virus in asymptomatic blood donors. Ferraz ML, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1275–82

Anger over HIV questions cancels blood clinic at Ottawa university. Gray C. **Can Med Assoc J** 1997 Apr 15; 156(8):1181–3

Diphtheria and tetanus immunity among blood donors in Toronto. Yuan L, et al. **Can Med Assoc J** 1997 Apr 1; 156(7):985–90

Quality control for qualitative assays: quantitative QC procedure designed to assure analytical quality required for an ELISA of hepatitis B surface antigen. Green GA 4th, et al. **Clin Chem** 1997 Sep;43(9):1618–21

The effects of vitamin A derivatives on in vitro antibody production by peripheral blood mononuclear cells (PBMC) from normal blood donors and patients with common variable immunodeficiency (CVID). Zhang JG, et al. **Clin Exp Immunol** 1997 Jan;107(1):57–60

Macrophages, multinucleated giant cells, and apoptosis in HIV+ patients and normal blood donors. Ruibal–Ares B, et al. **Clin Immunol Immunopathol** 1997 Feb;82(2):102–16

An EIA method on single donor solubilized HLA antigens for the identification of anti–HLA antibodies. Emonds MP, et al. **Clin Lab Haematol** 1997 Jun;19(2):129–36

Surveillance of viral infections in donated blood. **Commun Dis Rep CDR Wkly** 1997 Jul 18;7(29):256

Donor lymphocyte infusions. Giralt SA, et al. **Curr Opin Oncol** 1996 Mar;8(2):96–102 (61 ref.)

Epidemiology, serological markers, and hepatic disease of anti–HCV ELISA–2–positive blood donors. Salmerón FJ, et al. **Dig Dis Sci** 1996 Oct;41(10):1933–8

Situation of the blood banks in the region of the Americas, 1994–1995. **Epidemiol Bull** 1997 Mar;18(1):11–2

Epoetin alfa facilitates presurgical autologous blood donation in non–anaemic patients scheduled for orthopaedic or

cardiovascular surgery. Cazenave JP, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):432–42

Screening and characterization of specific anti-lipopolysaccharide antibodies in Belgian blood donors by enzyme-linked immunosorbent assays. Nys M, et al. **Eur J Clin Invest** 1996 Dec;26(12):1134–42

Cost-effectiveness of screening blood donors for hepatitis C and non-A, non-B, non-C hepatitis. The EATHIS Eco Research Group. European Acute Transfusion Hepatitis Interferon Study. Colin C, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):220–7

Endemic level of Lyme borreliosis in a region of central France: a sero-epidemiologic examination involving blood donors [letter] Christiann F, et al. **Eur J Epidemiol** 1997 Apr;13(3):361–2

Syphilis and blood donors: comparison of two different diagnostic strategies [published erratum appears in Eur J Epidemiol 1997 Feb;13(2):VI] D'Errico MM, et al. **Eur J Epidemiol** 1996 Feb;12(1):77–80

The Helicobacter pylori seroprevalence in blood donors related to Lewis (a,b) histo-blood group phenotype. Klaamas K, et al. **Eur J Gastroenterol Hepatol** 1997 Apr; 9(4):367–70

ABO genotyping in Italian blood donors. Villa A, et al. **Haematologica** 1996 Nov-Dec;81(6):492–6

Is blood donation good for the donor? Ford I. **Heart** 1997 Aug;78(2):107

Possible association of a reduction in cardiovascular events with blood donation. Meyers DG, et al. **Heart** 1997 Aug; 78(2):188–93

Donor leukocyte infusions for relapsed leukemia after allogeneic BMT. Mackinnon S. **Hematol Cell Ther** 1996 Oct;38(5):461–2 (5 ref.)

Hepatitis C in asymptomatic blood donors. Alter HJ, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):29S–33S (10 ref.)

The incidence and risk factors of community-acquired hepatitis C in a cohort of Italian blood donors. Prati D, et al. **Hepatology** 1997 Mar;25(3):702–4

Effect of temperature on functional response of platelet concentrates stored in PVC bags. Krishnan LK, et al. **Indian J Med Res** 1997 Mar;105:117–24

Analysis of cytokine profiles of stored CPDA-1 whole blood. Grunenberg R, et al. **Infusionsther Transfusionsmed** 1995 Oct;22(5):292–4

Plasmodium falciparum-specific T cell clones from non-exposed and exposed donors are highly diverse in TCR beta chain V segment usage. Fell AH, et al. **Int Immunol** 1996 Dec;8(12):1877–87

Serum ferritin in Danes: studies of iron status from infancy to old age, during blood donation and pregnancy. Milman N. **Int J Hematol** 1996 Feb;63(2):103–35 (151 ref.)

Infection with HIV, syphilis and hepatitis B in Ethiopia: a survey in blood donors. Rahlenbeck SI, et al. **Int J STD AIDS** 1997 Apr;8(4):261–4

Prevalence of human T-cell lymphotropic virus type I infection among volunteer blood donors in Kuwait [letter] Al-Mufti S, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):88–90

Risk factors for human T-cell lymphotropic virus types I and II (HTLV-I and -II) in blood donors: the Retrovirus Epidemiology Donor Study. NHLBI Retrovirus Epidemiology Donor Study. Schreiber GB, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Mar 1;14(3):263–71

Racial differences in the availability of human leukocyte antigen-matched platelets. King KE, et al. **J Clin Apheresis** 1996;11(2):71–7

Thrombopoietin: biology, clinical applications, role in the donor setting. Kuter DJ. **J Clin Apheresis** 1996;11(3):149–59 (69 ref.)

Mechanisms of adverse effects during hemapheresis. Strauss RG. **J Clin Apheresis** 1996;11(3):160–4 (31 ref.)

Long-term follow-up of health in blood donors with primary selective IgA deficiency. Koskinen S. **J Clin Immunol** 1996 May;16(3):165–70

Evaluation of recent techniques for detection of red blood cell antibodies in sera of reference samples, patients, pregnant women, and blood donors. de Castilho LM, et al. **J Clin Lab Anal** 1996;10(5):250–6

Detection of hepatitis C virus by PCR in second-generation enzyme immunoassay-seropositive blood donors by using matched pairs of fresh frozen plasma and pilot tube sera. Krajden M, et al. **J Clin Microbiol** 1996 Sep;34(9):2191–5

Differential prevalence of hepatitis C virus subtypes in healthy blood donors, patients on maintenance hemodialysis, and patients with hepatocellular carcinoma in Surabaya, Indonesia. Soetjipto, et al. **J Clin Microbiol** 1996 Dec;34(12):2875–80

HTLV-I in HIV seropositive Indian blood donors. Malhotra VL, et al. **J Commun Dis** 1996 Dec;28(4):270–2

Hepatitis C virus genotypes in a cohort of Australian blood donors and haemophiliac and liver transplant patients. Chen J, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):182–7

Large volume leukapheresis maximizes the progenitor cell yield for allogeneic peripheral blood progenitor donation. Kobbe G, et al. **J Hematother** 1997 Apr;6(2):125–31

Prevalence of hemochromatosis among first-time and repeat blood donors in Norway. Bell H, et al. **J Hepatol** 1997 Feb;26(2):272–9

The presence of rheumatoid factor in sera from anti-HCV positive blood donors interferes with the detection of HCV-specific IgM. Trent HCV Study Group. Stevenson DL, et al. **J Hepatol** 1996 Nov;25(5):621–6

'Reserve blood donation' [letter] Subhash B. **J Indian Med Assoc** 1996 Feb;94(2):74

Transfusion-transmitted babesiosis in Washington State: first reported case caused by a WA1-type parasite. Herwaldt BL, et al. **J Infect Dis** 1997 May;175(5):1259–62

Prevalence of and risk factors for antibody to hepatitis E virus seroreactivity among blood donors in Northern California. Mast EE, et al. **J Infect Dis** 1997 Jul; 176(1):34–40

An estimate of the number of human immunodeficiency virus (HIV)-positive blood donations by HIV-seronegative donors in a northern Thailand HIV epicenter. Sawanpanyalert P, et al. **J Infect Dis** 1996 Oct;174(4):870–3

Prevalence and genotype of hepatitis G virus in Chinese professional blood donors and hepatitis patients. Wang HL, et al. **J Infect Dis** 1997 May;175(5):1229–33

The gift of blood in Europe: an ethical defence of EC directive 89/381 [see comments] Keown J. **J Med Ethics** 1997 Apr;23(2):96–100. Comment in: J Med Ethics 1997 Apr;23(2):67–8.

Relevance of RIBA-3 supplementary test to HCV PCR positivity and genotypes for HCV confirmation of blood donors. Dow BC, et al. **J Med Virol** 1996 Jun;49(2):132–6

Evaluation of a pooling method for routine anti-HCV screening of blood donors to lower the cost burden on blood banks in countries under development. García Z, et al. **J Med Virol** 1996 Jul;49(3):218–22

Age distribution of antibodies to human papillomavirus in children, women with cervical intraepithelial neoplasia and blood donors from South Africa. Marais D, et al. **J Med Virol** 1997 Feb;51(2):126–31

Magnitude of hepatitis C virus infection in India: prevalence in healthy blood donors, acute and chronic liver diseases. Panigrahi AK, et al. **J Med Virol** 1997 Mar;51(3):167–74

Detection and clinical features of hepatitis C virus type 6 infections in blood donors from Hong Kong. Prescott LE, et al. **J Med Virol** 1996 Oct;50(2):168–75

Higher prevalence of Borna disease virus infection in blood donors living near thoroughbred horse farms. Takahashi H, et al. **J Med Virol** 1997 Jul;52(3):330–5

Infection with GB virus C and hepatitis C virus in hemodialysis patients and blood donors in Beijing. Wang Y, et al. **J Med Virol** 1997 May;52(1):26–30

Prolonged survival of rat hepatic allografts pretreated with a single donor-specific blood transfusion: the distribution of donor cells expressing class I major histocompatibility complex antigens in the recipient. Yamaguchi Y, et al. **J Surg Res** 1996 Feb 15;61(1):23–9

Genotypic variation, clinical and histological characteristics of chronic hepatitis C detected at blood donor screening. Bird GL, et al. **J Viral Hepat** 1995;2(5):261–5

A high prevalence of antibodies to hepatitis C virus among commercial plasma donors from Western India. Jha J, et al. **J Viral Hepat** 1995;2(5):257–60

Criteria for screening blood donors: science or politics? [letter; comment] Murphy JL. **JAMA** 1997 Jul 23–30; 278(4):289. Comment on: JAMA 1997 Mar 25;277(12):967–72.

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [letter; comment] Abdul Mujeeb S. **JPMA J Pak Med Assoc** 1997 Mar;47(3):100–1. Comment on: JPMA J Pak Med Assoc 1996 Jul;46(7):152–4.

Seroprevalence of hepatitis B and C virus among professional blood donors--a single centre study of 135 donors in Karachi [letter] Ahmed A, et al. **JPMA J Pak Med Assoc** 1995 Nov;45(11):309

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [see comments] Rehman K, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):152–4. Comment in: JPMA J Pak Med Assoc 1997 Mar;47(3):100–1.

Lower blood pressure values in blood donors? Casiglia E, et al. **Jpn Heart J** 1996 Nov;37(6):897–903

Screening blood donors for markers of new viruses [comment] Allain JP. **Lancet** 1997 Mar 1;349(9052):584–5 . Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Infectious human herpesvirus 8 in a healthy North American blood donor [see comments] Blackbourn DJ, et al. **Lancet** 1997 Mar 1;349(9052):609–11. Comment in: Lancet 1997 Mar 1;349(9052):584–5. Comment in: Lancet 1997 May 3;349(9061):1327. Comment in: Lancet 1997 May 3;349(9061):1327–8. Comment in: Lancet 1997 Jul 19;350(9072):217.

Involvement of expanded trinucleotide repeats in common diseases [letter] O'Donovan MC, et al. **Lancet** 1996 Dec 21–28;348(9043):1739–40

Blood donations and viruses [letter; comment] Operskalski EA, et al. **Lancet** 1997 May 3;349(9061):1327. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Blood donations and viruses [letter; comment] Schennach H, et al. **Lancet** 1997 May 3;349(9061):1327–8. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Immunity against diphtheria in blood donors in East Berlin and West Berlin [letter] Stark K, et al. **Lancet** 1997 Sep 27;350(9082):932

Plasma trade and the HIV epidemic [letter] Volkow P, et al. **Lancet** 1997 Feb 1;349(9048):327–8

HTLV-I provirus in seronegative healthy blood donors [letter] Zucker-Franklin D, et al. **Lancet** 1997 Apr 5; 349(9057):999

The graft-versus-leukemia effect of post-transplant donor leukocyte infusion. Johnson BD, et al. **Leuk Lymphoma** 1996 Sep;23(1-2):1–9 (65 ref.)

Pathogenesis and prevention of HTLV-1-associated diseases. Miwa M, et al. **Leukemia** 1997 Apr;11 Suppl 3:65–6

Serum alanine aminotransferase level in relation to hepatitis B and C virus infections among blood donors. Tsai JF, et al. **Liver** 1997 Feb;17(1):24–9

C2 deficiency in blood donors and lupus patients: prevalence, clinical characteristics and HLA-associations in the Brazilian population. Araújo MN, et al. **Lupus** 1997; 6(5):462–6

Blood cholinesterase levels in a group of Malaysian blood donors [published erratum appears in Malays J Pathol 1995 Jun;17(1):47] Chan L, et al. **Malays J Pathol** 1994 Dec; 16(2):161–4

Steady-state calculation of the risk of HIV infection from transfusion of screened blood from repeat donors. Satten GA. **Math Biosci** 1997 Apr 15;141(2):101–13

The effect of donor age on human erythrocyte density distribution. Pinkofsky HB. **Mech Ageing Dev** 1997 Jul; 97(1):73–9

HTLV-I and blood safety: let the community decide [editorial; comment] Kaldor JM. **Med J Aust** 1997 May 5;166(9):454–5. Comment on: Med J Aust 1997 May 5;166(9):478–81.

Prevalence of hepatitis G virus antibodies in Queensland blood donors [letter] Moaven LD, et al. **Med J Aust** 1997 May 5;166(9):507, 509

Is screening of Australian blood donors for HTLV-I necessary? [see comments] Whyte GS. **Med J Aust** 1997 May 5;166(9):478–81. Comment in: Med J Aust 1997 May 5;166(9):454–5.

The effectiveness of donor selection for reducing the risk of HCV, HBV and HIV in new blood donors [letter] Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):611

The risk of transmitting HCV, HBV or HIV by blood transfusion in Victoria. Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):584–6

Hepatitis C virus infection-associated markers in sera from blood donors in Surabaya, Indonesia. Darmadi S, et al. **Microbiol Immunol** 1996;40(5):401–5

Genotype analysis of hepatitis C virus among blood donors and inmates in Metro Manila, The Philippines. Katayama Y, et al. **Microbiol Immunol** 1996;40(7):525–9

Hepatitis HGV/GBV-C in New Zealand blood donors [letter] Woodfield G. **N Z Med J** 1997 Mar 28; 110(1040):108

Transmission of L. infantum by blood donors [letter] Kubar J, et al. **Nat Med** 1997 Apr;3(4):368

Reply to Dr. Ritu Priya [letter; comment] Nandi J. **Natl Med J India** 1996 Jan-Feb;9(1):49–50. Comment on: Natl Med J India 1994 Sep-Oct;7(5):235–40.

Pre-operative autologous blood donation in haemodialysis patients [letter] Kyriazis J, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2372–3

The use of radioimmune western blotting to evaluate indeterminate western blotting results in blood donor HIV serodiagnosis. Portincasa P, et al. **New Microbiol** 1997 Jul; 20(3):277–81

The incidence of viremia and the heterogeneity of hepatitis C virus genotypes among blood donors, hemophiliacs and patients with chronic liver disease. Kuperan P, et al. **Pathology** 1996 Nov;28(4):348–51

Can repeated plasma donation by asymptomatic HIV-infected individuals delay the onset of AIDS? Bainbridge DR, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jul 29; 352(1355):763–70

PSA-based screening for prostate cancer in asymptomatic younger males: pilot study in blood donors. Reissigl A, et al. **Prostate** 1997 Jan 1;30(1):20–5

Seropositivity for anti-trypanosoma cruzi antibodies among blood donors of the "Hospital Universitário Regional do Norte do Paraná", Londrina, Brazil. Reiche EM, et al. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):233–40 (45 ref.)

Chagas' disease: an algorithm for donor screening and positive donor counseling. Hamerschlak N, et al. **Rev Soc Bras Med Trop** 1997 May-Jun;30(3):205–9

Hepatitis C virus infection rate in volunteer blood donors from the Western Cape--comparison of screening tests and PCR. Tucker TJ, et al. **S Afr Med J** 1997 May;87(5):603–5

Changes in plasma ionized calcium and magnesium in blood donors after donation of 450 mL blood. Effects of hemodilution and Donnan equilibrium. Fogh-Andersen N, et al. **Scand J Clin Lab Invest Suppl** 1996;224:245–50

Hepatitis C virus transmission, 1988-1991, via blood components from donors subsequently found to be anti-HCV-positive. Foberg U, et al. **Scand J Infect Dis** 1996;28(1):21–6

Epoetin alfa as an adjunct to autologous blood donation in patients with a low hematocrit scheduled for elective orthopedic surgery. Adamson J. **Semin Hematol** 1997 Apr; 33(2 Suppl 2):15–6; discussion 17

Autologous blood donation plus epoetin alfa in nonanemic orthopedic surgery patients. Baudoux E. **Semin Hematol** 1997 Apr;33(2 Suppl 2):31–2; discussion 33

Epoetin alfa increases the volume of autologous blood donated by patients scheduled to undergo orthopedic surgery. Mercuriali F. **Semin Hematol** 1997 Apr;33(2 Suppl

2):10–2; discussion 13–4
Indirect hemagglutination antibodies against Burkholderia pseudomallei in normal blood donors and suspected cases of melioidosis in Malaysia. Norazah A, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):263–6
Reducing the risk of HIV transmission through blood transfusion by donor self–deferral. Urwijitaroon Y, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):452–6
The use of mobilized peripheral blood stem cells from normal donors for allografting. Anderlini P, et al. **Stem Cells** 1997; 15(1):9–17 (56 ref.)
Isolated familial plasminogen deficiency may not be a risk factor for thrombosis. Tait RC, et al. **Thromb Haemost** 1996 Dec;76(6):1004–8
Development of registries of HLA–typed volunteer marrow donors [editorial; comment] Hansen JA. **Tissue Antigens** 1996 Jun;47(6):460–3. Comment on: Tissue Antigens 1996 Jun;47(6):457–9.
HLA gene and haplotype frequencies in Dutch blood donors. Schipper RF, et al. **Tissue Antigens** 1996 Nov;48(5):562–74
Hepatitis C antibody prevalence in blood donors in different governorates in Egypt. Arthur RR, et al. **Trans R Soc Trop Med Hyg** 1997 May–Jun;91(3):271–4
Report on section 2A antibodies: ABH and other glycoconjugates—serology. Harrison D, et al. **Transfus Clin Biol** 1997;4(1):23–7
Assessment of qualitative functional parameters of stored red blood cells from donors with sickle cell trait (AS) or with heterozygote (AC) status. Ould Amar AK, et al. **Transfus Clin Biol** 1996;3(4):225–33
Antibody to hepatitis C virus in blood donors found positive for other agents. I. Treponemal infection. Aloysius S, et al. **Transfus Med** 1991 Sep;1(3):191–3
Autologous blood: really suitable for homologous use? [letter; comment] Caspari G, et al. **Transfus Med** 1996 Sep; 6(3):292–3. Comment on: Transfus Med 1995 Dec;5(4):303–4.
The role of personal interviews by direct questioning on blood donors with particular reference to prevention of transfusion–related infections: a Scottish perspective. Galea G. **Transfus Med** 1997 Mar;7(1):13–7 (20 ref.)
The presence of free infectious cytomegalovirus (CMV) in the plasma of donated CMV–seropositive blood and platelets. James DJ, et al. **Transfus Med** 1997 Jun;7(2):123–6
An HIV antibody positive plasma donor detected at the early stage of HIV infection in China [letter] Ji Y, et al. **Transfus Med** 1996 Sep;6(3):291–2
Infective, chronic carriers of hepatitis C virus among blood donors with no history of clinical hepatitis. Larsen J, et al. **Transfus Med** 1991 Mar;1(1):13–6
Antibody to hepatitis C virus in blood donors found positive for other agents. II. Anti–HIV–1. Moore MC, et al. **Transfus Med** 1991 Sep;1(3):195–7
The IgA–deficient blood donor: something in the air? Munks R. **Transfus Med** 1996 Sep;6(3):285–7
Development of a PCR–based diagnostic assay for the determination of KEL genotype in donor blood samples. Murphy MT, et al. **Transfus Med** 1996 Jun;6(2):133–7
The MiIII phenotype among Chinese donors in Hong Kong: immunochemical and serological studies. Poole J, et al. **Transfus Med** 1991 Sep;1(3):169–75
Comparison of in vivo red cell survival of donations collected by Haemonetics MCS versus conventional collection. Regan F, et al. **Transfus Med** 1997 Mar;7(1):25–8
SampLink: a new system for the collection of donor blood samples. Shinar E, et al. **Transfus Med** 1996 Jun;6(2):149–53
The incidence of anti–Wra and Wra antigen in blood donors and hospital patients. Wallis JP, et al. **Transfus Med** 1996 Dec;6(4):361–4
Comparative safety of units donated by autologous, designated and allogeneic (homologous) donors [letter; comment] Whyte G, et al. **Transfus Med** 1996 Jun; 6(2):209–11. Comment on: Transfus Med 1995 Jun;5(2):91–5.
Evaluation of syphilis testing of blood donors. Cable RG. **Transfus Med Rev** 1996 Oct;10(4):296–302 (34 ref.)
Donor reactions and injuries from whole blood donation. Newman BH. **Transfus Med Rev** 1997 Jan;11(1):64–75 (95 ref.)
A highly sensitive and specific chemiluminescent enzyme–linked immunosorbent assay for diagnosis of active Trypanosoma cruzi infection. Almeida IC, et al. **Transfusion** 1997 Aug;37(8):850–7
Factors affecting mobilization of CD34+ cells in normal donors treated with filgrastim. Anderlini P, et al. **Transfusion** 1997 May;37(5):507–12
Cost–effectiveness of expanded human immunodeficiency virus–testing protocols for donated blood. AuBuchon JP, et al. **Transfusion** 1997 Jan;37(1):45–51
Absence of the G871A mutation in A3 blood donors from Brazil [letter] Barjas–Castro ML, et al. **Transfusion** 1997 May;37(5):564
Differential effect of donor–specific blood transfusions after kidney, heart, pancreas, and skin transplantation in major histocompatibility complex–incompatible rats. Bektas H, et al. **Transfusion** 1997 Feb;37(2):226–30
Blood donor management in a high–risk environment: The National Blood Transfusion Service of the Ivory Coast [letter] Bontz W, et al. **Transfusion** 1997 Jan;37(1):106–7
Donor attitudes about exporting and importing blood. Bowman RJ, et al. **Transfusion** 1997 Sep;37(9):913–20
Reticulocytes in donor red cells [letter; comment] Branch DR. **Transfusion** 1997 Feb;37(2):246. Comment on: Transfusion 1994 Mar;34(3):233–7. Comment on: Transfusion 1996 Apr;36(4):318–21.
Plateletpheresis in 90– to 110–pound donors using the CS–3000 blood cell separator. Buchholz DH, et al. **Transfusion** 1997 Jul;37(7):715–8
Relative sensitivity of United States and European assays for screening blood donors for antibodies to human immunodeficiency viruses [letter] Busch MP, et al. **Transfusion** 1997 Mar;37(3):352–4
To thy (reactive) donors be true! [editorial; comment] Busch MP. **Transfusion** 1997 Feb;37(2):117–20. Comment on: Transfusion 1997 Feb;37(2):193–8.
Limited utility of alanine aminotransferase screening of hepatitis C antibody–screened blood donors. Cable R, et al. **Transfusion** 1997 Feb;37(2):206–10
Interpretation of false–positive human immunodeficiency virus type 1 western blot assays in blood donors [letter] Cable RG, et al. **Transfusion** 1997 Jun;37(6):670
Sexual transmission of hepatitis C virus to a repeat blood donor. Capelli C, et al. **Transfusion** 1997 Apr;37(4):436–40
Distribution of human T–lymphotropic virus type I among blood donors: a nationwide Brazilian study [letter] Galvão–Castro B, et al. **Transfusion** 1997 Feb;37(2):242–3
Transfusion transmission of human T–lymphotropic virus type I (HTLV–I) from an asymptomatic blood donor: conservation of LTR U3, env, and tax nucleotide sequences in a recipient with HTLV–I–associated myelopathy. Gasmi M, et al. **Transfusion** 1997 Jan;37(1):60–4
Indeterminate human immunodeficiency virus type 1 western blot may indicate an abortive infection in some low–risk blood donors [see comments] Georgoulias VA, et al. **Transfusion** 1997 Jan;37(1):65–72. Comment in: Transfusion 1997 Jan;37(1):1–2.
Autologous donation error rates in Canada [see comments] Goldman M, et al. **Transfusion** 1997 May;37(5):523–7. Comment in: Transfusion 1997 May;37(5):455–6.
Incidence of positive bacterial cultures after donor call–back [letter] Goldman M, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):1035
Serologic test for syphilis as a surrogate marker for human immunodeficiency virus infection among United States blood donors. Herrera GA, et al. **Transfusion** 1997 Aug; 37(8):836–40
Unexplained hepatitis C virus antibody seroconversion in established blood donors [letter] Hewitt PE, et al. **Transfusion** 1997 Sep;37(9):987–8
Food and Drug Administration conference on the feasibility of genetic technology to close the HIV window in donor screening. Hewlett IK, et al. **Transfusion** 1997 Mar; 37(3):346–51
A pilot study of continuous ambulatory electrocardiography in patients donating blood for autologous use in elective coronary artery bypass grafting. Kasper SM, et al. **Transfusion** 1997 Aug;37(8):829–35
High–yield platelet concentrates attainable by continuous quality improvement reduce platelet transfusion cost and donor exposure. Kelley DL, et al. **Transfusion** 1997 May; 37(5):482–6
A method for estimating hepatitis B virus incidence rates in volunteer blood donors. National Heart, Lung, and Blood Institute Retrovirus Epidemiology Donor Study. Korelitz JJ, et al. **Transfusion** 1997 Jun;37(6):634–40
HIV and the blood supply: an analysis of crisis decision making. Executive summary. The Institute of Medicine, National Academy of Sciences Committee to Study HIV Transmission Through Blood and Blood Products [see comments] Leveton LB, et al. **Transfusion** 1996 Oct; 36(10):919–27. Comment in: Transfusion 1996 Oct;36(10):928–31. Comment in: Transfusion 1996 Oct;36(10):932–4.
A prospective study of a serum–pooling strategy in screening blood donors for antibody to hepatitis C virus. Liu P, et al. **Transfusion** 1997 Jul;37(7):732–6
Prevalence of hepatitis G virus RNA in French blood donors and recipients [see comments] Loiseau P, et al. **Transfusion** 1997 Jun;37(6):645–50. Comment in: Transfusion 1997 Jun;37(6):569–72.
Prevalence of hepatitis C virus and genotype distribution in an Australian volunteer blood donor population. Mison LM, et al. **Transfusion** 1997 Jan;37(1):73–8
Icteric plasma suggests Gilbert's syndrome in the blood donor. Naiman JL, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):974–8
Very anemic donors may pass copper sulfate screening tests [letter] Newman B. **Transfusion** 1997 Jun;37(6):670–1
Temporary deferral of blood donors after administration of hepatitis B vaccine [letter; comment] Otağ F, et al. **Transfusion** 1997 Aug;37(8):880. Comment on: Transfusion 1995 Jun;35(6):475–7. Comment on: Transfusion 1996 Apr;36(4):386.
Loss of volunteer blood donors because of unconfirmed enzyme immunoassay screening results. Retrovirus Epidemiology Donor Study. Ownby HE, et al. **Transfusion** 1997 Feb;37(2):199–205
A search for hepatitis C virus polymerase chain reaction–positive but seronegative subjects among blood donors with elevated alanine aminotransferase. Prince AM, et al. **Transfusion** 1997 Feb;37(2):211–4
Prevalence of hepatitis G virus and its strain variant, the GB agent, in blood donations and their transmission to recipients [see comments] Roth WK, et al. **Transfusion** 1997 Jun;37(6):651–6. Comment in: Transfusion 1997 Jun;37(6):569–72.
Risk of exposure to Chagas' disease among seroreactive Brazilian blood donors. Salles NA, et al. **Transfusion** 1996 Nov–Dec;36(11–12):969–73
Mobilization kinetics of CD34+/Thy–1dim progenitor cells during recombinant human granulocyte–colony–stimulating factor administration in normal donors. Seong C, et al. **Transfusion** 1997 Apr; 37(4):406–10
Anti–hepatitis C virus seroconversion in blood donors in Japan [letter] Shimoyama R, et al. **Transfusion** 1997 May; 37(5):564–5
Comparison of random–donor platelet concentrates prepared from whole blood units and platelets prepared from single–donor apheresis collections. Sloand EM, et al. **Transfusion** 1996 Nov–Dec;36(11–12):955–9
AS–1 red cells for neonatal transfusions: a randomized trial assessing donor exposure and safety. Strauss RG, et al. **Transfusion** 1996 Oct;36(10):873–8
Composition of peripheral blood progenitor cell components collected from healthy donors. Stroncek DF, et al. **Transfusion** 1997 Apr;37(4):411–7
Performance of three generations of anti–hepatitis C virus enzyme–linked immunosorbent assays in donors and patients. Vrielink H, et al. **Transfusion** 1997 Aug; 37(8):845–9
Analysis of apheresis content of progenitor cell collections from normal donors to whom granulocyte–colony–stimulating factor is administered. Weinthal JA, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):943–7
Infection with hepatitis G virus and its strain variant, the GB agent (GBV–C), among blood donors in Japan [see comments] Yoshikawa A, et al. **Transfusion** 1997 Jun; 37(6):657–63. Comment in: Transfusion 1997 Jun;37(6):569–72.
Automated blood component collection with the MCS 3p cell separator: evaluation of three protocols for buffy coat–poor and white cell–reduced packed red cells and plasma. Zeiler TA, et al. **Transfusion** 1997 Aug;37(8):791–7
Frequency analysis of recipient–reactive helper and cytotoxic T lymphocyte precursors using a combined single limiting dilution assay. Wang XN, et al. **Transpl Immunol** 1996 Sep; 4(3):247–51
Human T–lymphotropic virus infection: is it a threat? Zaaijer H. **Transplant Proc** 1996 Oct;28(5):2940
Recruitment of engrafted donor cells postnatally into the blood with cytokines after in utero transplantation in mice. Carrier E, et al. **Transplantation** 1997 Aug 27;64(4):627–33
Hepatic encephalopathy in liver transplant recipients precipitated by benzodiazepines present in transfused blood. Zeneroli ML, et al. **Transplantation** 1996 Sep 27;62(6):764–7
GB virus C/hepatitis G virus infection among Japanese patients with chronic liver diseases and blood donors. Orito E, et al. **Virus Res** 1996 Dec;46(1–2):89–93
Hepatitis C virus genotypes in blood donors and patients with chronic hepatitis C. Brojer E, et al. **Vox Sang** 1996; 71(1):51–4
Autologous blood procurement in the surgical setting: lessons learned in the last 10 years. Goodnough LT, et al. **Vox Sang** 1996;71(3):133–41 (75 ref.)
Response of the erythron and erythropoietin to autologous blood donations in paediatric subjects. Is erythropoietin supplement necessary? Han P, et al. **Vox Sang** 1997; 73(1):24–7
HIV antibody testing by a displacement pool method lacks sensitivity and is unsuitable for blood donor screening. Heyns AD, et al. **Vox Sang** 1996;71(1):61–3
Detection of antibody to hepatitis C virus E2 recombinant antigen among samples indeterminate for anti–HCV after wide serological testing and correlation with viremia. The Spanish Study Group for Blood Donors at Risk of Transmission of HCV. León P, et al. **Vox Sang** 1996; 70(4):213–6
Typing of hepatitis C virus antibody with specific peptides in seropositive blood donors and comparison with genotyping of viral RNA. León P, et al. **Vox Sang** 1997; 72(2):71–5
Comparison between intravenous and subcutaneous recombinant human erythropoietin (Epoetin alfa) administration in presurgical autologous blood donation in anemic rheumatoid arthritis patients undergoing major orthopedic surgery. Mercuriali F, et al. **Vox Sang** 1997; 72(2):93–100
Efficient and safe definition of the rhesus–negative donor on the olympus PK 7200 without the indirect antiglobulin test for weak D [letter] Mertens G, et al. **Vox Sang** 1996; 70(4):237–8
Risk factors and anti–HBc reactivity among first time blood donors. Molijn MH, et al. **Vox Sang** 1997;72(4):207–10
Does anti–HBc reactivity reflect 'lifestyle' risk in north London blood donors? Moore MC, et al. **Vox Sang** 1997; 72(2):79–84
An easy dipstick assay for anti–core antibodies to screen blood donors for hepatitis C virus viremia. Mulyanto, et al. **Vox Sang** 1996;70(4):229–31
Human T lymphotropic virus type I and II infections in healthy blood donors from Rio de Janeiro, Brazil [letter] Nogueira CM, et al. **Vox Sang** 1996;70(1):47–8

Altered filterability of fresh sickle cell trait donor blood [letter] Ould Amar AK, et al. **Vox Sang** 1997;73(1):55–6

HCV-Infection in blood donors: association between anti-HCV core IgM antibodies and serum HCV RNA. Ounanian-Paraz A, et al. **Vox Sang** 1996;70(3):139–43

Seroconversions to HTLV in blood donors [letter] Pillonel J, et al. **Vox Sang** 1996;70(1):47

Influence of antioxidants on the quality of stored blood. Racek J, et al. **Vox Sang** 1997;72(1):16–9

Markers of haemostatic activation before and after blood donation and plasmapheresis. Rahr HB, et al. **Vox Sang** 1997;73(1):12–5

Evaluation of a solid-phase test for erythrocyte antibody screening of pregnant women, patients and blood donors. Sallander S, et al. **Vox Sang** 1996;71(4):221–5

Comparison of solid-phase antibody screening tests with pooled red cells in blood donors. Schrem A, et al. **Vox Sang** 1996;71(1):37–42

ISBT working party on transmissible diseases: report on the workshop 'infectious-disease testing and quality control' [letter] van der Poel C, et al. **Vox Sang** 1996;70(1):53–60

Look-back of anti-HCV ELISA-positive, HCV-RNA PCR-negative donors and recipients of their blood products. Vrielink H, et al. **Vox Sang** 1997;72(2):67–70

Leukocyte depletion and storage of single-donor platelet concentrates. Weisbach V, et al. **Vox Sang** 1997;72(1):20–5

Transmission of hepatitis C via both erythrocyte and platelet transfusions from a single donor in serological window-phase of hepatitis C. Widell A, et al. **Vox Sang** 1996;71(1):55–7

Transfusion support for a patient with severe common variable immunodeficiency with anti-IgA undergoing orthotopic liver transplantation [letter] Win N, et al. **Vox Sang** 1997;72(4):251

Hepatitis virus infections in spouses of blood donors [letter; comment] Zimmermann R, et al. **Vox Sang** 1996; 71(3):189–90. Comment on: Vox Sang 1996;70(2):112–3.

Bridgeport Hospital autologous blood donation experience from 1992 to 1996. Bernstein LH, et al. **Yale J Biol Med** 1996 Sep–Dec;68(5–6):207–13

Cryptococcosis associated with HIV negative Indian patients and HIV positive Indian blood donors. Khan ZK, et al. **Zentralbl Bakteriol** 1996 Mar;283(3):360–74

[Anti-hepatitis C virus screening to prevent hepatitis C virus infection in blood donors] Sun Y, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):696–9 (Eng. Abstr.) **(Chi)**

[Detection of hepatitis c in blood donors in Niamey] Mamadou S, et al. **Bull Soc Pathol Exot** 1997;90(2):74 (Eng. Abstr.) **(Fre)**

[Follow-up of blood donors with positive serology for hepatitis C virus and their recipients is insufficient] Bonaguidi-Magniaux M, et al. **Gastroenterol Clin Biol** 1996; 20(8–9):663–8 (Eng. Abstr.) **(Fre)**

[Medical follow-up of blood donors with hepatitis C virus antibodies. Value of transfusion surveys for the recipients (editorial)] Jullien AM. **Gastroenterol Clin Biol** 1996; 20(8–9):657–60 **(Fre)**

[Hepatitis C virus in hemodialysis patients and blood donors in Lebanon] Naman RE, et al. **J Med Liban** 1996;44(1):4–9 (Eng. Abstr.) **(Fre)**

[Medical and economic evaluation of donated blood screening for hepatitis C and non-A, non-B, non-C hepatitis] Vergnon P, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):66–79 (Eng. Abstr.) **(Fre)**

[Autotransfusion: reflections on the preparation prior to donation] Zysset F, et al. **Rev Med Suisse Romande** 1997 Jun;117(6):501–7 (19 ref.) **(Fre)**

[Screening and confirmation of anti-HCV antibodies in Tunisian blood donors] Abid S, et al. **Transfus Clin Biol** 1997;4(2):221–6 (Eng. Abstr.) **(Fre)**

[Screening and early detection in blood transfusion: when are they indicated?] Salmi LR, et al. **Transfus Clin Biol** 1997 Jul;4(4):417–27 (Eng. Abstr.) **(Fre)**

[Screening for markers of blood-borne diseases in donated units collected in France from 1993 to 1995] Saura C, et al. **Transfus Clin Biol** 1997 Jul;4(4):403–15 (Eng. Abstr.) **(Fre)**

[Immunologic effects of blood donation] Lange S, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:93–7 (Eng. Abstr.) **(Ger)**

[Specificity of a new test for detection of antibodies to HIV-1/-2 in blood donors] Saadé C, et al. **Infusionsther Transfusionsmed** 1996 Jun;23(3):133–7 (Eng. Abstr.) **(Ger)**

[Preoperative autologous blood donation in patients with malignant tumors of the head and neck region] Ogawa K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Feb; 99(2):286–91 (Eng. Abstr.) **(Jpn)**

[Present status and future of blood management in Japan] Sekiguchi S, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):862–70 (9 ref.) **(Jpn)**

[Diphtheria and tetanus immunity of blood donors] Zakrzewska A. **Przegl Epidemiol** 1997;51(1-2):25–7 (Eng. Abstr.) **(Pol)**

[The seroprevalence for hepatitis E viral antibodies in the northern region of Portugal (among the donor population)] Queirós L, et al. **Acta Med Port** 1997 Jun-Jul; 10(6-7):447–53 (Eng. Abstr.) **(Por)**

[The prevalence of antibodies to the hepatitis C virus (HCV) in patients with post-transfusional hepatitis and blood donors in Moldova] Iancu L, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan–Jun; 38(1–2):76–80 **(Rum)**

[Comparative study of structural transitions in erythrocyte membranes in donors and newborns] Matveev AV, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):196–200 **(Rus)**

[The distribution of histocompatibility antigens among donors (the city of Kiev)] Pavliuk RP, et al. **Tsitol Genet** 1996 Sep–Oct;30(5):66–70 (Eng. Abstr.) **(Rus)**

[The organization of the donation of autologous blood and its components in cardiac surgery] Shevchenko IuL, et al. **Vestn Khir Im I I Grek** 1996;155(5):71–4 (Eng. Abstr.) **(Rus)**

[The outlook for the development of blood donation in the Armed Forces] Danil'chenko VV, et al. **Voen Med Zh** 1996 Dec;317(12):4–7 **(Rus)**

[The spread of antibodies to cytomegalovirus and Toxoplasma among donors of blood components] Zhiburt EB, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):59–61 (Eng. Abstr.) **(Rus)**

[Assessment of iron deposits in blood donors (letter)] Calvo Villas JM, et al. **Rev Clin Esp** 1996 Nov;196(11):798 **(Spa)**

[Prevalence of human herpesvirus 7 in Mexican blood donors] Rojo Medina J, et al. **Rev Invest Clin** 1995 Nov–Dec; 47(6):467–71 (Eng. Abstr.) **(Spa)**

[Determination of anti-HTLV-I/II antibodies: Experience in 28,897 blood donations in Buenos Aires] Blejer JL, et al. **Sangre (Barc)** 1995 Dec;40(6):447–51 (Eng. Abstr.) **(Spa)**

[Seroprevalence of hepatitis A in Aragonese donors (letter)] García Erce J, et al. **Sangre (Barc)** 1996 Dec;41(6):484–5 **(Spa)**

[Blood donation: a constantly evolving concept (editorial; comment)] Gimeno JJ, et al. **Sangre (Barc)** 1996 Dec; 41(6):413–6. Comment on: Sangre (Barc) 1996 Dec;41(6):427–40. **(Spa)**

[The antidiphtheria immunity of the eligible donor population] Fedorovs'ka OO, et al. **Fiziol Zh** 1997; 43(1-2):109–12 (Eng. Abstr.) **(Ukr)**

CLASSIFICATION

HIV-related risk factors of blood donors in northern Thailand before and after knowing HIV test results. Sawanpanyalert P, et al. **Int J Epidemiol** 1997 Apr; 26(2):408–13

[2-stage determination of rhesus classification] Zhiburt EB, et al. **Klin Lab Diagn** 1996 May–Jun;(3):29–30 (Eng. Abstr.) **(Rus)**

HISTORY

Blood transfusion services in the UK [see comments] Dodsworth H. **J R Coll Physicians Lond** 1996 Sep–Oct; 30(5):457–64. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):112–3.

LEGISLATION & JURISPRUDENCE

Regulations prohibiting blood donation by individuals with seizures or epilepsy are not necessary. Krumholz A, et al. **Med Law** 1997;16(2):339–47

[Blood donation after reaching 65 years of age] Janetzko K, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:76–80 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Bulimic purging through blood donation [letter] Ghadirian AM. **Am J Psychiatry** 1997 Mar;154(3):435–6

Registered bone marrow donors' views on bodily donations. Sanner MA. **Bone Marrow Transplant** 1997 Jan;19(1):67–76

Stress and blood donation: effects of music and previous donation experience. Ferguson E, et al. **Br J Psychol** 1997 May;88 (Pt 2):277–94

Predicting vasovagal reactions in volunteer blood donors. Meade MA, et al. **J Psychosom Res** 1996 May; 40(5):495–501

Promoting blood donation: a study of the social profile, attitudes, motivation and experience of donors. Moore RJ. **Transfus Med** 1991 Dec;1(4):201–7

Paid time off for blood donation—an incentive to be less than truthful? [letter] McFarland JG, et al. **Transfusion** 1997 Apr;37(4):447–8

Perceptions of the risk of HIV infection through giving blood in Greece [letter] Politis C, et al. **Vox Sang** 1997;72(4):251–2

Analysis of autologous blood donor motivation [letter; comment] Popovsky MA, et al. **Vox Sang** 1996;70(3):180 . Comment on: Vox Sang 1995;69(2):110–3.

[Theoretical approach to motivating people for voluntary blood donation] Andjelić D, et al. **Srp Arh Celok Lek** 1996 Sep–Oct;124(9–10):251–4 (Eng. Abstr.) **(Scc)**

[Attitudes, beliefs, and motivations in blood donors and non-donors (see comments)] Fernández Montoya A, et al. **Sangre (Barc)** 1996 Dec;41(6):427–40 (Eng. Abstr.). Comment in: Sangre (Barc) 1996 Dec;41(6):413–6. **(Spa)**

STATISTICS & NUMERICAL DATA

Self-sufficiency for plasma and plasma proteins in Norway. Solheim BG, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:98–102

Computer program to predict likelihood of finding and HLA-matched donor: methodology, validation, and application. Mori M, et al. **Biol Blood Marrow Transplant** 1996 Oct;2(3):134–44

Risk of HIV infection from blood transfusion in Montreal [see comments] Remis RS, et al. **CMAJ** 1997 Aug 15; 157(4):375–82. Comment in: CMAJ 1997 Aug 15;157(4):391–2.

Prevalence of transmissible blood infections among blood donors at the University of Maiducuri Teaching Hospital, Maiduguri, Nigeria. Chikwem JO, et al. **East Afr Med J** 1997 Apr;74(4):213–6

Prevalence of HBsAg among the non cauterized groups of blood donors. Khalil IA, et al. **East Afr Med J** 1996 Nov; 73(11):717–9

Donating blood. Why supplies aren't lasting [news] **Hosp Health Netw** 1997 Feb 5;71(3):12

Prevalence of HIV infection in voluntary blood donors and cancer patients. Kumar RR, et al. **Indian J Pathol Microbiol** 1996 Jul;39(3):187–9

Likelihood ratios for mixed stains when the number of donors cannot be agreed. Brenner CH, et al. **Int J Legal Med** 1996; 109(4):218–9

An evaluation of the need for shared blood donor deferral registries. Domen RE, et al. **Int J Qual Health Care** 1997 Feb;9(1):35–41

Detection of HBsAg and HIV carriage among blood donors or rural population of Loni areas. Jain RC, et al. **J Assoc Physicians India** 1995 May;43(5):378

Very low incidence rates of community-acquired hepatitis C virus infection in company employees, long-term inpatients, and blood donors in Japan. Sasaki F, et al. **J Epidemiol** 1996 Dec;6(4):198–203

Sexually-transmitted disease (STD) markers in multitransfused children in relation to human immunodeficiency virus type-1 (HIV-1) infection: impact of STD markers in blood donors. Chattopadhya D, et al. **J Trop Pediatr** 1997 Jun;43(3):178–81

Estimates of infectious disease risk factors in US blood donors. Retrovirus Epidemiology Donor Study [see comments] Williams AE, et al. **JAMA** 1997 Mar 26; 277(12):967–72. Comment in: JAMA 1997 Jul 23–30;278(4):289.

Prevalence of hepatitis G virus in Queensland blood donors. Moaven LD, et al. **Med J Aust** 1996 Oct 7;165(7):369–71

Thanksgiving day for the gift of life [editorial] Whyte GS, et al. **Med J Aust** 1997 Jul 7;167(1):7–8 (15 ref.)

Introduction of a donor exposure reduction programme for multiple-transfused very-low-birth-weight infants. Kirsten GF, et al. **S Afr Med J** 1996 Nov;86(11 Suppl):1460–4

Infrequent occurrence of HIV-2 in blood donors and pregnant women in a rural community in Ghana [letter] Adu-Sarkodie Y, et al. **Sex Transm Dis** 1996 Nov–Dec; 23(6):526–7

Specific antibodies to Trypanosoma cruzi among blood donors in Los Angeles, California. Shulman IA, et al. **Transfusion** 1997 Jul;37(7):727–31

[Collection and utilization of plasma in Austria: on the way to national self-sufficiency] Bergmann H, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:103–10 (Eng. Abstr.) **(Ger)**

[Donor exclusions, discarded blood and transfusion unsuited blood conserves of 2,13 million potential blood donors 1991 to 1994] Diekamp U, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:81–92 (Eng. Abstr.) **(Ger)**

[Prevalence of hepatitis C virus in blood donors and comparison of 4 different anti-HCV differentiation tests] Hennig H, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:231–4 (Eng. Abstr.) **(Ger)**

[Prevalence of hepatitis B and C infection and HIV infection in blood donors and patients from the internal diseases ward] Kozik T, et al. **Przegl Lek** 1996;53(3):159–61 (Eng. Abstr.) **(Pol)**

[Prevalence of antibody to hepatitis C virus in blood donors. Analysis of confirmed results (letter)] Wolff C, et al. **Rev Med Chil** 1996 May;124(5):615–6 (Eng. Abstr.) **(Spa)**

SUPPLY & DISTRIBUTION

What is the proper role for charity in healthcare? Ackerman F. **Camb Q Healthc Ethics** 1996 Summer;5(3):425–9

Back to basics. Burns CD. **J Ky Med Assoc** 1996 May; 94(5):203

Donors and the United States blood supply. Westphal RG. **Transfusion** 1997 Feb;37(2):237–41

BLOOD DOPING see **DOPING IN SPORTS**

BLOOD EXPANDERS see **PLASMA SUBSTITUTES**

BLOOD FLOW, RENAL, EFFECTIVE see **RENAL BLOOD FLOW, EFFECTIVE**

BLOOD FLOW VELOCITY

Validation of volume flow measurements in blood vessels with quantitative color velocity imaging using a physiologic model of the circulation. Levy DJ, et al. **Acad Radiol** 1996 May;3(5):383–8

Histopathologic findings of placenta and arcuate artery Doppler velociometry in preeclampsia and intrauterine growth retardation. Kos M, et al. **Acta Med Croatica** 1997;

51(3):151–4
Aortic vessel wall characteristics and blood pressure in children with intrauterine growth retardation and abnormal foetal aortic blood flow. Ley D, et al. **Acta Paediatr** 1997 Mar;86(3):299–305
Qualitative hepatic venous Doppler sonography versus portal flowmetry in predicting the severity of esophageal varices in hepatitis C cirrhosis. Gorka W, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):511–5
Flow quantification using fast cine phase–contrast MR imaging, conventional cine phase–contrast MR imaging, and Doppler sonography: in vitro and in vivo validation. Lee VS, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1125–31
Reduction of right atrial peak systolic velocity in growth–restricted discordant twins. Forouzan I, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1033–5
Intrauterine growth restriction with absent end–diastolic flow velocity in the umbilical artery is associated with maldevelopment of the placental terminal villous tree. Krebs C, et al. **Am J Obstet Gynecol** 1996 Dec; 175(6):1534–42
Doppler velocimetry of hepatic blood flow in postpartum patients with HELLP syndrome (hemolysis, elevated liver enzymes, and low platelets) [letter; comment] Kurzel RB, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1677–8. Comment on: Am J Obstet Gynecol 1994 Aug;171(2):526–30.
Decreased blood flow rate disrupts endothelial repair in vivo. Vyalov S, et al. **Am J Pathol** 1996 Dec;149(6):2107–18
Quantification of erythrocyte flow in the choroid of the albino rat. Braun RD, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1444–53
Autoregulatory capacity in the superior mesenteric artery is attenuated by nitric oxide. Macedo MP, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G400–4
Differential activation of NF–kappa B in human aortic endothelial cells conditioned to specific flow environments. Mohan S, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C572–8
Flow–independent heterogeneity of brain capillary plasma perfusion after blood exchange with a Newtonian fluid. Vogel J, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1833–7
Developmental changes in flow–wave propagation velocity in embryonic chick vascular system. Yoshigi M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1523–9
Intracranial pressure, middle cerebral artery flow velocity, and plasma inorganic fluoride concentrations in neurosurgical patients receiving sevoflurane or isoflurane. Artru AA, et al. **Anesth Analg** 1997 Sep;85(3):587–92
Arterial pressure–flow relationship in patients undergoing cardiopulmonary bypass. Urzua J, et al. **Anesth Analg** 1997 May;84(5):958–63
Intraoperative monitoring of IMA flow: what does it mean? Barnea O, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S12–7
Is free flow measurement of internal thoracic artery accurate? [letter; comment] Canver CC. **Ann Thorac Surg** 1996 Oct; 62(4):1248–9. Comment on: Ann Thorac Surg 1996 Mar;61(3):909–13.
Intraoperative blood flow measurement of the right gastroepiploic artery using pulsed Doppler echocardiography. Tavilla G, et al. **Ann Thorac Surg** 1997 Aug;64(2):426–31
Platelet activation in flowing blood passing growing arterial thrombi. Hagberg IA, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1331–6
Measurement of vasoactivity in the guinea–pig choroid. Cringle SJ, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S82–4
Effects of cordocentesis on inferior vena cava velocity waveforms: differences between normally grown and growth–retarded fetuses. Capponi A, et al. **Biol Neonate** 1996;70(2):84–90
Blood flow and autoregulation in somatic and autonomic ganglia. Comparison with sciatic nerve. McManis PG, et al. **Brain** 1997 Mar;120 (Pt 3):445–9
Fluctuations in red cell flux in tumor microvessels can lead to transient hypoxia and reoxygenation in tumor parenchyma. Kimura H, et al. **Cancer Res** 1996 Dec 1; 56(23):5522–8
Characterization of intra–arterial flow velocity within left coronary to pulmonary artery fistula. Bitar SR, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):208–12
There's no business like flow business! [editorial; comment] Bowers TR, et al. **Cathet Cardiovasc Diagn** 1996 Jul; 38(3):255. Comment on: Cathet Cardiovasc Diagn 1996 Jul;38(3):251–4.
Does coronary flow reserve assessed by blood flow velocity analysis reflect absolute coronary flow reserve? [see comments] Takeuchi M, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):251–4. Comment in: Cathet Cardiovasc Diagn 1996 Jul;38(3):255.
Comparison of intravenous adenosine to intracoronary papaverine for calculation of pressure–derived fractional flow reserve. van der Voort PH, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):120–5
Noninvasive measurement of pulmonary arterial blood velocity. Can it replace right heart catheterization? [letter] Frank H, et al. **Chest** 1997 May;111(5):1470–1
Acute reductions in blood flow and shear stress induce platelet–derived growth factor–A expression in baboon prosthetic grafts. Kraiss LW, et al. **Circ Res** 1996 Jul; 79(1):45–53
Simultaneous coronary pressure and flow velocity measurements in humans. Feasibility, reproducibility, and hemodynamic dependence of coronary flow velocity reserve, hyperemic flow versus pressure slope index, and fractional flow reserve. de Bruyne B, et al. **Circulation** 1996 Oct 15;94(8):1842–9
Alternation in the coronary blood flow velocity pattern in patients with no reflow and reperfused acute myocardial infarction. Iwakura K, et al. **Circulation** 1996 Sep 15; 94(6):1269–75
Changes in phasic coronary blood flow velocity profile and relative coronary flow reserve in patients with hypertrophic obstructive cardiomyopathy. Kyriakidis MK, et al. **Circulation** 1997 Aug 5;96(3):834–41
Fetal atrioventricular flow–velocity waveforms and their relation to arterial and venous flow–velocity waveforms at 8 to 20 weeks of gestation. van Splunder P, et al. **Circulation** 1996 Sep 15;94(6):1372–8
Comparison of transesophageal coronary sinus and left anterior descending coronary artery Doppler measurements for the assessment of coronary flow reserve. Mundigler G, et al. **Clin Cardiol** 1997 Mar;20(3):225–31
Retrograde atrial kick in acute aortic regurgitation. Study of mitral and pulmonary venous flow velocities by transthoracic and transesophageal echocardiography. Vilacosta I, et al. **Clin Cardiol** 1997 Jan;20(1):35–40
Cerebral blood flow velocity and liver transplantation [letter; comment] Doblar DD. **Clin Physiol** 1996 Mar;16(2):97–101 . Comment on: Clin Physiol 1995 Mar;15(2):119–30.
Feature discovery and classification of Doppler umbilical artery blood flow velocity waveforms. Baykal N, et al. **Comput Biol Med** 1996 Nov;26(6):451–62
Non–invasive blood pressure measurements and aortic blood flow velocity in neonates. Rahiala E, et al. **Early Hum Dev** 1997 Sep 19;49(2):107–12
Flow velocity distributions in the left ventricular outflow tract and in the aortic annulus in patients with localized basal septal hypertrophy. Zhou YQ, et al. **Eur Heart J** 1996 Sep;17(9):1404–12
Haemodynamic changes with the laryngeal mask airway––off the cuff. Colbert S, et al. **Eur J Anaesthesiol** 1997 Sep; 14(5):514–7
Intra– and extracranial artery blood velocity during a sudden blood pressure decrease in humans. Savin E, et al. **Eur J Appl Physiol** 1997;76(3):289–93
Reverse end–diastolic uterine artery velocity in a pregnant woman complicated by mild preeclampsia and severe growth retardation. Ekici E, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 May;66(1):79–82
Association between a low umbilical artery pulsatility index and fetal distress in labor in very prolonged pregnancies. Olofsson P, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):23–9
Analysis of variance of microspheres blood flow measurements in rabbits. Duijm HF, et al. **Exp Eye Res** 1997 Apr;64(4):545–51
The frequency distribution of blood–flow velocities in the extraocular vessels. Kaiser HJ, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Sep;234(9):537–41
Fetal heart rate and umbilico–placental Doppler flow velocity waveforms in early pregnancies with a chromosomal abnormality and/or an increased nuchal translucency thickness. Jauniaux E, et al. **Hum Reprod** 1996 Feb;11(2):435–9
Ultrasonic Doppler measurement using a pseudo–continuous mode. Grall–Maës E, et al. **IEEE Eng Med Biol Mag** 1997 May–Jun;16(3):59–65
Do haematophagous parasites secrete SOD and promote blood flow? Pritchard DI. **Int J Parasitol** 1996 Nov; 26(11):1339–40
Pulse wave velocity measurement by cross–correlation of Doppler velocity signals. Application to elderly volunteers during training. Dauzat M, et al. **Int J Sports Med** 1996 Nov;17(8):547–53
Color–coded duplex sonography of experimentally induced multilevel stenosis. Evaluation of poststenotic Doppler spectrum. Tacke J, et al. **Invest Radiol** 1997 Jul; 32(7):389–95
The blood–flow velocity analysis as a possible method for arterial calibre discovery. A statistical investigation in 108 human subjects by color–Doppler method. Macchi C, et al. **Ital J Anat Embryol** 1996 Jan–Mar;101(1):45–55
Doppler evaluation of left and right ventricular diastolic function: a technical guide for obtaining optimal flow velocity recordings. Appleton CP, et al. **J Am Soc Echocardiogr** 1997 Apr;10(3):271–92
Feasibility of obtaining pulmonary venous flow velocity in cardiac patients using transthoracic pulsed wave Doppler technique. Jensen JL, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb;10(1):60–6
Experimental and numerically modeled effects of altered loading conditions on pulmonary venous flow and left atrial pressure in patients with mitral regurgitation. Klein AL, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb;10(1):41–51
Transesophageal echocardiographic Doppler study of the pulmonary venous flow pattern in severe mitral stenosis with variable degrees of mitral regurgitation. Palileo RA, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):540–4
Aortic flow velocity patterns in chronic aortic regurgitation: implications for Doppler echocardiography. Reimold SC, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):675–83
Assessment of left ventricular end–diastolic pressure by Doppler echocardiography: contribution of duration of pulmonary venous versus mitral flow velocity curves at atrial contraction. Yamamoto K, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb;10(1):52–9
Does ovarian stimulation affect uterine artery impedance? Cacciatore B, et al. **J Assist Reprod Genet** 1996 Jan; 13(1):15–8
Characterization of blood flow turbulence with pulsed–wave and power Doppler ultrasound imaging. Cloutier G, et al. **J Biomech Eng** 1996 Aug;118(3):318–25
Effect of physiological factors on proximal flow convergence upstream of an incompetent valve: an in–vitro study. Guenet FS, et al. **J Biomech Eng** 1997 Feb;119(1):39–44
In–vivo measurements of blood flow velocity profiles in canine ilio–femoral anastomotic bypass grafts. Jones SA, et al. **J Biomech Eng** 1997 Feb;119(1):30–8
Numerical analysis of three–dimensional Björk–Shiley valvular flow in an aorta. Shim EB, et al. **J Biomech Eng** 1997 Feb;119(1):45–51
Synchronous measurements of blood pressure and red blood cell velocity in capillaries of human skin. Hahn M, et al. **J Invest Dermatol** 1996 Jun;106(6):1256–9
Derivation of correlation coefficient formula for determination of Doppler angle using time domain correlation ultrasonic flowmeter. Güler I. **J Med Syst** 1997 Apr;21(2):75–86
Blood flow velocity changes in the middle cerebral artery as an index of the chronicity of hypertension. Cho SJ, et al. **J Neurol Sci** 1997 Sep 1;150(1):77–80
Acute effects of therapeutic ultrasound delivered at varying parameters on the blood flow velocity in a muscular distribution artery [published erratum appears in J Orthop Sports Phys Ther 1997 Feb;25(2):144] Fabrizio PA, et al. **J Orthop Sports Phys Ther** 1996 Nov;24(5):294–302
Developmental changes in renal blood flow velocity [letter; comment] Glickstein JS, et al. **J Pediatr** 1997 Feb; 130(2):336. Comment on: J Pediatr 1996 Aug;129(2):251–7.
Umbilical artery catheter blood sampling alters cerebral blood flow velocity in preterm infants. Lott JW, et al. **J Perinatol** 1996 Sep–Oct;16(5):341–5
Effect of altered blood flow on the caliber and morphology of the internal thoracic artery in the dog. Kouchi Y, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):114–20
Steady flow in models of abdominal aortic aneurysms. Part I: Investigation of the velocity patterns. Peattie RA, et al. **J Ultrasound Med** 1996 Oct;15(10):679–88
Steady flow in models of abdominal aortic aneurysms. Part II: Wall stresses and their implication for in vivo thrombosis and rupture. Peattie RA, et al. **J Ultrasound Med** 1996 Oct; 15(10):689–96
Volumetric evaluation of blood flow in normal renal arteries with a Doppler flow wire: a feasibility study. Savader SJ, et al. **J Vasc Interv Radiol** 1997 Mar–Apr;8(2):209–14
Measurement of flow rates through aortic branches in the anesthetized rabbit. Barakat AI, et al. **Lab Anim Sci** 1997 Apr;47(2):184–9
Measuring blood flow by nontriggered 2D phase–contrast MR angiography. Bakker CJ, et al. **Magn Reson Imaging** 1996;14(6):609–14
Quantification of coronary artery bypass graft flow by magnetic resonance phase velocity mapping. Galjee MA, et al. **Magn Reson Imaging** 1996;14(5):485–93
Application of linear optimization techniques to MRI phase contrast blood flow measurements. Morgan VL, et al. **Magn Reson Imaging** 1996;14(9):1043–51
Acceleration mapping by Fourier acceleration–encoding: in vitro study and initial results in the great thoracic vessels. Tasu JP, et al. **Magn Reson Med** 1997 Jul;38(1):110–6
In vivo validation of MR pulse pressure measurement in an aortic flow model: preliminary results. Urchuk SN, et al. **Magn Reson Med** 1997 Aug;38(2):215–23
Transcranial Doppler assessment of cerebral blood flow velocity during visual spatial selective attention in humans. Schnittger C, et al. **Neurosci Lett** 1996 Aug 16;214(1):41–4
Glaucoma, capillaries and pericytes. 1. Blood flow regulation. Anderson DR. **Ophthalmologica** 1996;210(5):257–62 (82 ref.)
Relationship between ocular pulse pressures and retinal vessel velocities. Michelson G, et al. **Ophthalmology** 1997 Apr; 104(4):664–71
Color Doppler imaging of ophthalmic artery blood flow velocity: a study of repeatability and agreement. Quaranta L, et al. **Ophthalmology** 1997 Apr;104(4):653–8
The effect of carotid endarterectomy on ocular blood velocity. Riiheläinen K, et al. **Ophthalmology** 1997 Apr; 104(4):672–5
Assessment of stenosis severity using a novel method to estimate spatial and temporal variations of blood flow velocity in biplane coronarography. Sarry L, et al. **Phys Med Biol** 1997 Aug;42(8):1549–64
Umbilical Doppler velocimetry in fetuses with trisomy 18 at 10–18 weeks' gestation. Martinez JM, et al. **Prenat Diagn** 1997 Apr;17(4):319–22
Insulin–like growth factor–I decreases mean blood pressure and selectively increases regional blood flow in normal rats. Pete G, et al. **Proc Soc Exp Biol Med** 1996 Nov; 213(2):187–92
Amplitude Doppler US: slow blood flow detection tested with a flow phantom. Weskott HP. **Radiology** 1997 Jan; 202(1):125–30
Carotid artery volume flow: in vivo measurement with

time-domain-processing US. Westra SJ, et al. **Radiology** 1997 Mar;202(3):725-9

Ocular blood flow velocities in patients with proliferative diabetic retinopathy after scatter photocoagulation. Two years of follow-up. Mendivil A, et al. **Retina** 1996; 16(3):222-7

Application of interhemispheric index for transcranial Doppler sonography velocity measurements and evaluation of recording time. Bay-Hansen J, et al. **Stroke** 1997 May; 28(5):1009-14

Relationships between cerebral regional blood flow velocities and volumetric blood flows and their respective reactivities to acetazolamide. Démolis P, et al. **Stroke** 1996 Oct; 27(10):1835-9

Normalization of transcranial Doppler middle cerebral artery velocities after aneurysm clipping. Brint SU, et al. **Surg Neurol** 1997 Jun;47(6):541-6

One-point measurement of the peak-to-peak pulsatility index as an indicator for evaluation of infrainguinal bypass procedures. Inoue Y, et al. **Surg Today** 1997;27(4):305-9

Flow-induced arterial enlargement is inhibited by suppression of nitric oxide synthase activity in vivo. Guzman RJ, et al. **Surgery** 1997 Aug;122(2):273-9; discussion 279-80

The Fab-fragment of a PAI-1 inhibiting antibody reduces thrombus size and restores blood flow in a rat model of arterial thrombosis. van Giezen JJ, et al. **Thromb Haemost** 1997 May;77(5):964-9

A noninvasive method to estimate arterial impedance by means of assessment of local diameter change and the local center-line blood flow velocity using ultrasound. Brands PJ, et al. **Ultrasound Med Biol** 1996;22(7):895-905

A high-frequency continuous-wave Doppler ultrasound system for the detection of blood flow in the microcirculation. Christopher DA, et al. **Ultrasound Med Biol** 1996;22(9):1191-203

Volumetric flow estimation in vivo and in vitro using pulsed-Doppler ultrasound. Holland CK, et al. **Ultrasound Med Biol** 1996;22(5):591-603

Development of quantitative Doppler indices for uteroplacental and fetal blood flow during the third trimester. Joern H, et al. **Ultrasound Med Biol** 1996; 22(7):823-35

The influence of acoustic impedance mismatch on post-stenotic pulsed-Doppler ultrasound measurements in a coronary artery model. Jones SA, et al. **Ultrasound Med Biol** 1996;22(5):623-34

Ductus venosus revisited: a Doppler blood flow evaluation in the first trimester of pregnancy. Montenegro N, et al. **Ultrasound Med Biol** 1997;23(2):171-6

Rapid volume flow rate estimation using transverse colour Doppler imaging. Picot PA, et al. **Ultrasound Med Biol** 1995;21(9):1199-209

A comparison of intratumoural indices of blood flow velocity and impedance for the diagnosis of ovarian cancer. Tailor A, et al. **Ultrasound Med Biol** 1996;22(7):837-43

Cyclic variation of Doppler power from whole blood under pulsatile flow. Wu SJ, et al. **Ultrasound Med Biol** 1996; 22(7):883-94

Effects of velocity distribution, diameter measurement and velocity tracing on the accuracy of cardiac output measurement by pulsed Doppler echocardiography in the aortic annulus of pigs. Zhou YQ, et al. **Ultrasound Med Biol** 1997;23(2):177-85

In a different vein: the ductus venosus could yield much valuable information. Kiserud T. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):369-72 (50 ref.)

[Calculation of the regurgitation fraction in mitral insufficiency by Doppler echocardiography using a study of the zone of flow convergence] Gallet B, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):17-25 (30 ref.) (Eng. Abstr.) **(Fre)**

[Evaluation of erythrocyte deformability using a cell transit analyzer "CTA". Comparison with the technique of initial filtration flow rate. Application to the blood of diabetic patients] Khodabandehlou T, et al. **J Mal Vasc** 1996; 21(3):175-80 (Eng. Abstr.) **(Fre)**

[Flow direction-sensitive spin-echo MR angiography] Bücker A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):92-5 (Eng. Abstr.) **(Ger)**

[In vitro evaluation of the intravasal Doppler guide wire: determination of hemodynamic effects of stenoses in a flow model] Hoppe M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):544-9 (Eng. Abstr.) **(Ger)**

[Flow quantification with magnetic resonance: preliminary results with phase contrast technique] Pavone P, et al. **Radiol Med (Torino)** 1996 Sep;92(3):218-22 (Eng. Abstr.) **(Ita)**

[Measurements of blood flow velocity in human retinal veins using laser speckle flowgraphy system] Nagahara M, et al. **Nippon Ganka Gakkai Zasshi** 1997 Feb;101(2):173-9 (Eng. Abstr.) **(Jpn)**

[Structure of blood flow in the left ventricle and aorta using the analytical solutions of nonstationary hydrodynamics equations and morphometric study] Kiknadze GI, et al. **Dokl Akad Nauk** 1996 Nov;351(1):119-22 **(Rus)**

[Disturbances of the normal structuring of the blood flow in the microvessels as the cause of hemorheological disorders] Mchedlishvili GI. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):41-7 (27 ref.) **(Rus)**

DRUG EFFECTS

Intrarenal distribution of renal blood flow after acute and chronic administration of nitric oxide-synthase inhibitor. Bartha J, et al. **Acta Physiol Hung** 1995;83(4):403-10

Role of L-arginine in preventing myocardial and endothelial injury following ischaemia/reperfusion in the rat isolated heart. Li XS, et al. **Acta Physiol Scand** 1996 Jan; 156(1):37-44

Interaction between oxidative stress and gamma-linolenic acid in impaired neurovascular function of diabetic rats. Cameron NE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E471-6

Hemodynamic effects of intravenous isoproterenol versus saline in the parturient. Marcus MA, et al. **Anesth Analg** 1997 May;84(5):1113-6

Forearm vascular responses to serotonin are not mediated by products of cyclooxygenase. Nugent AG, et al. **Br J Clin Pharmacol** 1996 Mar;41(3):241-3

Effects of a xanthine derivative, propentofylline, on local cerebral blood flow and glucose utilization in the rat. Grome JJ, et al. **Brain Res** 1996 Nov 18;740(1-2):41-6

Effect of regional angiotensin II infusion on the relationship between tumour blood flow and fluorouracil uptake in a liver metastasis animal model. Dworkin MJ, et al. **Eur J Cancer** 1996 Aug;32A(9):1580-4

Cardiovascular responses induced by injection of endothelin-1 into the superior colliculus of rats. D'Amico M, et al. **Eur J Pharmacol** 1996 Dec 5;316(2-3):245-7

Regional blood flows in the goat latissimus dorsi muscle before and after chronic stimulation. Klabunde RE, et al. **J Appl Physiol** 1996 Dec;81(6):2365-72

E-selectin preferentially supports neutrophil but not eosinophil rolling under conditions of flow in vitro and in vivo. Sriramarao P, et al. **J Immunol** 1996 Nov 15; 157(10):4672-80

Opposite effects of L-arginine and nitroglycerin on cerebral blood velocity: nitric oxide precursors and cerebral blood velocity. Micieli G, et al. **J Neurol Sci** 1997 Sep 1; 150(1):71-5

A preliminary study on the effect of hormone replacement therapy on peripheral flow velocity in postmenopausal women. Lau TK, et al. **Maturitas** 1997 Jan;26(1):53-6

The effect of isosorbide dinitrate on uterine artery and umbilical artery flow velocity waveforms at mid-pregnancy. Thaler I, et al. **Obstet Gynecol** 1996 Nov; 88(5):838-43

The effect of protamine on the epicardial microflow and the graft flow in open-heart surgery. Belboul A, et al. **Perfusion** 1997 Mar;12(2):99-106

Regional cerebral blood flow changes associated with risperidone treatment in elderly schizophrenia patients: a pilot study. Berman I, et al. **Psychopharmacol Bull** 1996; 32(1):95-100

Enhancement of portal blood flow by ursodesoxycholic acid in partially hepatectomized rats. Ohtake M, et al. **Surg Today** 1996;26(2):142-4

Blood flow in the internal mammary artery after the administration of papaverine during coronary artery bypass grafting. Hausmann H, et al. **Tex Heart Inst J** 1996; 23(4):279-83

The effect of maternal prostaglandin administration on fetal ductus venosus blood flow velocity. Degani S, et al. **Ultrasound Obstet Gynecol** 1996 Sep;8(3):174-7

IMMUNOLOGY

E-selectin preferentially supports neutrophil but not eosinophil rolling under conditions of flow in vitro and in vivo. Sriramarao P, et al. **J Immunol** 1996 Nov 15; 157(10):4672-80

PHYSIOLOGY

Intraocular pressure and circulation at the disc in glaucoma. Hitchings RA. **Acta Ophthalmol Scand Suppl** 1997; (220):15-20; discussion 20-2 (63 ref.)

Middle cerebral artery blood velocity and plasma catecholamines during exercise. Pott F, et al. **Acta Physiol Scand** 1996 Dec;158(4):349-56

Middle cerebral artery blood velocity during rowing. Pott F, et al. **Acta Physiol Scand** 1997 Jul;160(3):251-5

Peak systolic velocity, resistance index and pulsatility index. Variations in measuring a pre-recorded videotape. Mikkonen RH, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):598-602

Endothelin-1 limits increases in blood flow to native and collateral-dependent myocardium. Symons JD, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R41-8

Development of a side-view chamber for studying cell-surface adhesion under flow conditions. Cao J, et al. **Ann Biomed Eng** 1997 May-Jun;25(3):573-80

The importance of slice location on the accuracy of aortic regurgitation measurements with magnetic resonance phase velocity mapping. Chatzimavroudis GP, et al. **Ann Biomed Eng** 1997 Jul-Aug;25(4):644-52

Hemolysis test of disposable type vibrating flow pump. Kobayashi S, et al. **Artif Organs** 1997 Jul;21(7):691-3

Estimating mechanical blood trauma in a centrifugal blood pump: laser Doppler anemometer measurements of the mean velocity field. Pinotti M, et al. **Artif Organs** 1996 Jun;20(6):546-52

Prediction of hemolysis in turbulent shear orifice flow. Tamagawa M, et al. **Artif Organs** 1996 Jun;20(6):553-9

Blood density monitoring during dialysis. Yamauchi T, et al. **Artif Organs** 1996 Sep;20(9):981-5

High flux plasma exchange using a modified rotating membrane system. Kaplan AA, et al. **ASAIO J** 1996 Nov-Dec;42(6):957-60

Bilateral simultaneous transcranial Doppler monitoring of flow velocity changes during visuospatial and verbal working memory tasks. Cupini LM, et al. **Brain** 1996 Aug; 119 (Pt 4):1249-53

The influence of stimulus location on the brain activation pattern in detection and orientation discrimination. A PET study of visual attention. Vandenberghe R, et al. **Brain** 1996 Aug;119 (Pt 4):1263-76

Cutaneous blood flow increases in the rat hindpaw during dorsal column stimulation. Croom JE, et al. **Brain Res** 1996 Jul 29;728(2):281-6

Simultaneous observation of regional cerebral blood flow and event-related potential during performance of an auditory task. Higashima M, et al. **Brain Res Cogn Brain Res** 1996 Nov;4(4):289-96

Practical coronary physiology. Clinical application of the Doppler flow velocity guide wire. Bach RG, et al. **Cardiol Clin** 1997 Feb;15(1):77-99 (75 ref.)

Clinical application of coronary flow reserve using an intracoronary Doppler guide wire. Joye JD, et al. **Cardiol Clin** 1997 Feb;15(1):101-29 (111 ref.)

Functional anatomy of pointing and grasping in humans. Grafton ST, et al. **Cereb Cortex** 1996 Mar-Apr;6(2):226-37

The assignment of velocity profiles in finite element simulations of pulsatile flow in arteries. Redaelli A, et al. **Comput Biol Med** 1997 May;27(3):233-47

Cerebral and renal artery blood flow velocity before and after birth. Kempley ST, et al. **Early Hum Dev** 1996 Sep 20;46(1-2):165-74

Fetal and uteroplacental circulatory changes in pregnancies proceeding beyond 43 weeks. Olofsson P, et al. **Early Hum Dev** 1996 Sep 20;46(1-2):1-13

Changes in cerebral blood flow velocity in healthy young men during overnight sleep and while awake. Kuboyama T, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb; 102(2):125-31

Increase of posterior cerebral artery blood flow velocity during threshold repetitive magnetic stimulation of the human visual cortex: hints for neuronal activation without cortical phosphenes. Sander D, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov;99(5):473-8

Sympathetic nerve regulation of cochlear blood flow during increases in blood pressure in humans. Degoute CS, et al. **Eur J Appl Physiol** 1997;75(4):326-32

Cerebral blood flow velocity response induced by a 70-hPa Valsalva manoeuvre associated with normo- and hypergravity in humans. Ossard G, et al. **Eur J Appl Physiol** 1996;72(5-6):502-8

Effects of red cell transfusion on pulmonary blood flow and right ventricular systolic time intervals in neonates. Nelle M, et al. **Eur J Pediatr** 1997 Jul;156(7):553-6

Brain activity related to serial cognitive performance resembles circuitry of higher order motor control. de Jong BM, et al. **Exp Brain Res** 1996 Apr;109(1):136-40

Flow patterns in dog aortic arch under a steady flow condition simulating mid-systole. Endo S, et al. **Heart Vessels** 1996;11(4):180-91

Mechanisms of coronary flow reserve impairment in human hypertension. An integrated approach by transthoracic and transesophageal echocardiography. Kozàkovà M, et al. **Hypertension** 1997 Feb;29(2):551-9

Improved assessment of intravascular Doppler coronary flow velocity profile. Wellnhofer E, et al. **Int J Card Imaging** 1997 Feb;13(1):25-34

Effects of cardiac output on Doppler transmitral and transtricuspid flow velocity patterns in very low birth weight infants. Harada K, et al. **Int J Cardiol** 1996 Oct 25;56(3):227-33

Color Doppler ultrasound, pregnancy-induced hypertension and small-for-gestational-age fetuses. Hung JH, et al. **Int J Gynaecol Obstet** 1997 Jan;56(1):3-11

Effects of high-frequency oscillatory ventilation on circulation in neonates with pulmonary interstitial emphysema or RDS. Nelle M, et al. **Intensive Care Med** 1997 Jun;23(6):671-6

Cerebral haemodynamic changes induced by spinal cord stimulation in man. Mazzone P, et al. **Ital J Neurol Sci** 1996 Feb;17(1):55-7

The normal pattern of pulmonary venous flow on pulsed Doppler examination of the human fetus. Better DJ, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):281-5

Influence of aging on left atrial appendage flow velocity patterns in normal subjects. Tabata T, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):274-80

Minimal redistribution of pulmonary blood flow with exercise in racehorses [see comments] Bernard SL, et al. **J Appl Physiol** 1996 Sep;81(3):1062-70. Comment in: J Appl Physiol 1996 Sep;81(3):1049-50.

Spatial pattern of pulmonary blood flow distribution is stable over days. Glenny RW, et al. **J Appl Physiol** 1997 Mar; 82(3):902-7

Muscle O2 uptake kinetics in humans: implications for metabolic control. Grassi B, et al. **J Appl Physiol** 1996 Mar; 80(3):988-98

Joint pressure influences synovial tissue blood flow as

determined by colored microspheres. Hardy J, et al. **J Appl Physiol** 1996 Apr;80(4):1225–32

Pulmonary blood flow distribution in standing horses is not dominated by gravity [see comments] Hlastala MP, et al. **J Appl Physiol** 1996 Sep;81(3):1051–61. Comment in: J Appl Physiol 1996 Sep;81(3):1049–50.

Muscular blood flow response to submaximal leg exercise in normal subjects and in patients with heart failure. Isnard R, et al. **J Appl Physiol** 1996 Dec;81(6):2571–9

Augmented hypoxic cerebral vasodilation in men during 5 days at 3,810 m altitude. Jensen JB, et al. **J Appl Physiol** 1996 Apr;80(4):1214–8

Blood flow distribution in working in situ canine muscle during blood flow reduction. Kurdak SS, et al. **J Appl Physiol** 1996 Jun;80(6):1978–83

Exhaled nitric oxide during exercise: site of release and modulation by ventilation and blood flow. Phillips CR, et al. **J Appl Physiol** 1996 Jun;80(6):1865–71

Peak calf blood flow estimates are higher with Dohn than with Whitney plethysmograph. Proctor DN, et al. **J Appl Physiol** 1996 Sep;81(3):1418–22

Control of skin blood flow in the neutral zone of human body temperature regulation. Savage MV, et al. **J Appl Physiol** 1996 Apr;80(4):1249–57

Blood flow increases in common carotid artery, lower lip and palate elicited by lingual nerve stimulation in anesthetized cats. Izumi H, et al. **J Auton Nerv Syst** 1997 Feb 17;62(3):167–73

Attractors and quasi-attractors in the cutaneous perfusion in human subjects and patients: "chaotic" or adaptive behaviour? Schmid-Schönbein H, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):136–40

Blood-flow sensing by anionic biopolymers. Siegel G, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):207–13

Baroreceptor modulation of regional haemodynamic responses to acute stress in rat. Zhang ZQ, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1-2):23–30

Separation of arterial pressure waves into their forward and backward running components. Pythoud F, et al. **J Biomech Eng** 1996 Aug;118(3):295–301

New color Doppler technique for detecting turbulent tumor blood flow: a possible aid to hepatocellular carcinoma diagnosis. Yasuhara K, et al. **J Clin Ultrasound** 1997 May; 25(4):183–8

Comparison of magnetic resonance imaging and Laser Doppler Anemometry velocity measurements downstream of replacement heart valves: implications for in vivo assessment of prosthetic valve function. Fontaine AA, et al. **J Heart Valve Dis** 1996 Jan;5(1):66–73

The use of enzyme activated milk for in vitro simulation of prosthetic valve thrombosis. Keggen LA, et al. **J Heart Valve Dis** 1996 Jan;5(1):74–83

Evaluation of transit-time and electromagnetic flow measurement in a chronically instrumented nonhuman primate model. Koenig SC, et al. **J Invest Surg** 1996 Nov-Dec;9(6):455–61

Functional anatomy of spatial mental imagery generated from verbal instructions. Mellet E, et al. **J Neurosci** 1996 Oct 15;16(20):6504–12

Intestinal blood flow is controlled by both feed arteries and microcirculatory resistance vessels in freely moving rats. Fenger-Gron J, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):215–24

Contribution of oxygen-sensitive neurons of the rostral ventrolateral medulla to hypoxic cerebral vasodilatation in the rat. Golanov EV, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):201–16

Slice location dependence of aortic regurgitation measurements with MR phase velocity mapping. Chatzimavroudis GP, et al. **Magn Reson Med** 1997 Apr; 37(4):545–51

Coronary flow and coronary flow reserve measurements in humans with breath-held magnetic resonance phase contrast velocity mapping. Davis CP, et al. **Magn Reson Med** 1997 Apr;37(4):537–44

Effect of magnetization transfer on the measurement of cerebral blood flow using steady-state arterial spin tagging approaches: a theoretical investigation. McLaughlin AC, et al. **Magn Reson Med** 1997 Apr;37(4):501–10

Filtering properties of an adaptive trend operator and the application for determining the arterial blood velocity in retinal vessels. Barešová E, et al. **Med Prog Technol** 1995-96;21(3):123–34

Blood flow and substrate exchange in skeletal muscle of man: techniques relevant for use in the study of the ageing process of muscle. Saltin B. **Muscle Nerve Suppl** 1997; 5:S107–9 (12 ref.)

Cortical blood flow and negative symptoms in schizophrenia. Zemishlany Z, et al. **Neuropsychobiology** 1996;33(3):127–31

The human cerebellum and temporal information processing--results from a PET experiment. Jueptner M, et al. **Neuroreport** 1996 Nov 4;7(15–17):2761–5

Relation of cerebral blood flow velocity and level of vigilance in humans. Schnittger C, et al. **Neuroreport** 1997 May 6;8(7):1637–9

Increased nasal mucosal blood flow, airway resistance and secretion induced by electrical stimulation of the superior salivatory nucleus in cats. Yoshida K, et al. **Neurosci Res** 1996 Aug;25(4):371–7

Ocular blood flow in experimental glaucoma: a study in cynomolgus monkeys. Alm A, et al. **Ophthalmologica** 1997; 211(3):178–82

Association of retinal capillary perfusion with visual status during chronic glaucoma therapy. Sponsel WE, et al. **Ophthalmology** 1997 Jun;104(6):1026–32

Local myocardial glucose uptake is proportional to, but not dependent on blood flow. Deussen A. **Pflugers Arch** 1997 Feb;433(4):488–96

Deconvolution process in measurement of arterial velocity profiles via an ultrasonic pulsed Doppler velocimeter for evaluation of the wall shear rate. Flaud P, et al. **Ultrasound Med Biol** 1997;23(3):425–36

Abnormal pulmonary venous return diagnosed prenatally by pulsed Doppler flow imaging. Feller Printz B, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):347–9

Deciphering the hieroglyphics of venous Doppler velocities [comment] Huhta JC. **Ultrasound Obstet Gynecol** 1997 May;9(5):300–1 (5 ref.). Comment on: Ultrasound Obstet Gynecol 1997 May;9(5):319–23.

In vitro demonstration of inhibition of retrograde flow in the human umbilical vein [see comments] Potter PL. **Ultrasound Obstet Gynecol** 1997 May;9(5):319–23. Comment in: Ultrasound Obstet Gynecol 1997 May;9(5):300–1.

Reversal of diastolic flow in the middle cerebral artery of the fetus during the second half of pregnancy. Respondek M, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):324–9

[Cap image--a new kind of computer-assisted video image analysis system for dynamic capillary microscopy] Klyscz T, et al. **Biomed Tech (Berl)** 1997 Jun;42(6):168–75 (Eng. Abstr.) **(Ger)**

[Color Doppler echocardiography of the flow convergence region in vitro: effect of the orifice shape on proximal velocity profile] Giesler M, et al. **Z Kardiol** 1996 Jan; 85(1):45–52 (Eng. Abstr.) **(Ger)**

[The effect of the blood flow rate on blood heat emission in the vascular bed of the skin] Luchakov IuI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):78–82 (Eng. Abstr.) **(Rus)**

BLOOD GAS ANALYSIS

Umbilical cord blood sampling--a tool for delivery quality control? Bulkmans N, et al. **Acta Obstet Gynecol Scand** 1997 May;76(5):419–22

Changes in EEG, systemic circulation and blood gas parameters following two or six aliquots of porcine surfactant. Lundstrøm KE, et al. **Acta Paediatr** 1996 Jun; 85(6):708–12

The relationship between physician behaviors and blood gas values in the first hours of life--implications for "standards" of medical care for infants with respiratory distress. Meadow W, et al. **Am J Perinatol** 1996 Nov;13(8):457–64

Blood gas profiles of fetuses with abnormal Doppler flow in the umbilical artery. Okamura K, et al. **Am J Perinatol** 1996 Jul;13(5):297–300

On constructing graphs [letter] Boba A. **Crit Care Med** 1997 Sep;25(9):1612

Methodological and clinical studies of Doppler ultrasound indices and their relation to fetal haemoglobin concentration, acid-base status, and blood gas values. Legarth J. **Dan Med Bull** 1996 Dec;43(5):419–28 (45 ref.)

Cord serum erythropoietin in 90 healthy newborn term infants: relationship to blood gases and iron status markers. Milman N, et al. **Int J Hematol** 1996 Oct;64(3-4):197–201

Increased arterial desaturation in trained cyclists during maximal exercise at 580 m altitude. Gore CJ, et al. **J Appl Physiol** 1996 Jun;80(6):2204–10

Flow-dependent influence of high-O2-affinity erythrocytes on peak VO2 in exercising muscle in situ. Kohzuki H, et al. **J Appl Physiol** 1996 Mar;80(3):832–8

Source of error on A-aDO2 calculated from blood stored in plastic and glass syringes. Wu EY, et al. **J Appl Physiol** 1997 Jan;82(1):196–202

Effect of oxygen and air inhalation during cataract surgery on blood gas parameters. Cummings AB, et al. **J Cataract Refract Surg** 1996 Nov;22(9):1236–9

The effect of solubility and hyperlipidemia on perioperative arterial blood gas tensions. Watkins-Pitchford M, et al. **J Clin Anesth** 1997 Jun;9(4):331–3

Modified carotid artery transposition for repetitive arterial blood gas sampling in large animals. Orsini JA, et al. **J Invest Surg** 1997 May-Jun;10(3):125–8

Continuous monitoring of the partial pressure of oxygen in cerebral venous blood. Rieger A, et al. **Neurosurgery** 1997 Aug;41(2):462–7; discussion 467–8

Proceedings of the 15th International Symposium on Blood Gases and Electrolytes. Linköping, Sweden, May 20–23, 1994. **Scand J Clin Lab Invest Suppl** 1996;224:1–280

Blood gases and hypothermia: some theoretical and practical considerations. Kofstad J. **Scand J Clin Lab Invest Suppl** 1996;224:21–6 (8 ref.)

Erythrocyte 2,3-diphosphoglycerate depletion associated with hypophosphatemia detected by routine arterial blood gas analysis. Larsen VH, et al. **Scand J Clin Lab Invest Suppl** 1996;224:83–7

Definition, significance and measurement of quantities pertaining to the oxygen carrying properties of human blood. Zijlstra WG, et al. **Scand J Clin Lab Invest Suppl** 1996;224:27–45 (69 ref.)

Heparin appears to have no significant effect on the blood gas levels in patients with COPD [letter; comment] Uğurman F, et al. **Thromb Res** 1996 Nov 15;84(4):295–6 . Comment on: Thromb Res 1992 Dec 1;68(4-5):435–40.

[Time used in monitoring of postoperative oxygen status] Lavrsen MJ, et al. **Ugeskr Laeger** 1997 Feb 3;159(6):748–51 (Eng. Abstr.) **(Dan)**

[Blood gas analysis] Boemke W, et al. **Anaesthesist** 1996 Mar; 45(3):289–310 (18 ref.) **(Ger)**

["Blood gas analysis" by W. Bomke, M. O. Krebs and R. Rossaint in number 3/96 (letter)] Langenstein H, et al. **Anaesthesist** 1996 Oct;45(10):993–4 (3 ref.) **(Ger)**

[Continuous measurement of jugular venous blood gas. A case of subarachnoid bleeding] Menzel M, et al. **Anaesthesist** 1997 Apr;46(4):329–34 (Eng. Abstr.) **(Ger)**

[Pre-pathologic-pathologic cardiotocographic pattern in second stage of labor. Analysis of the incidence of acidosis and recommendations for fetal blood gas analysis] Schlotter CM. **Zentralbl Gynakol** 1997;119(3):117–22 (Eng. Abstr.) **(Ger)**

[Adaptation of cardiac activity and status of gas exchange in athletes to physical load] Vaniushin IuS, et al. **Fiziol Cheloveka** 1997 Jul-Aug;23(4):69–73 **(Rus)**

[Relationship between peak expiratory flow and clinical exploration and arterial gas analysis in assessing the severity of an asthma attack] Fábregas ML, et al. **Arch Bronconeumol** 1996 Jan;32(1):4–9 (Eng. Abstr.) **(Spa)**

[Gas exchange changes in the postoperative period of heart surgery] Quadrelli SA, et al. **Medicina (B Aires)** 1995; 55(4):300–6 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

All-solid-state miniaturized fluorescence sensor array for the determination of critical gases and electrolytes in blood. Bruno AE, et al. **Anal Chem** 1997 Feb 1;69(3):507–13

Ischaemia of the hand after radial artery monitoring. Sfeir R, et al. **Cardiovasc Surg** 1996 Aug;4(4):456–8

Evaluation of i-STAT portable clinical analyzer in a neonatal and pediatric intensive care unit. Murthy JN, et al. **Clin Biochem** 1997 Jul;30(5):385–9

Blood gas monitoring. Zimmerman JL, et al. **Crit Care Clin** 1996 Oct;12(4):865–74 (37 ref.)

Instrumental variability of respiratory blood gases among different blood gas analysers in different laboratories. Kampelmacher MJ, et al. **Eur Respir J** 1997 Jun; 10(6):1341–4

Wear causes lack of gas concentration display in Criticare Model 1100 multiple medical gas monitors. **Health Devices** 1996 Sep;25(9):346–7

Three-year outbreak of pseudobacteremia with Burkholderia cepacia traced to a contaminated blood gas analyzer [see comments] Gravel-Tropper D, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):737–40. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):718–20.

Clinical evaluation of a multiparameter intra-arterial blood-gas sensor. Abraham E, et al. **Intensive Care Med** 1996 May;22(5):507–13

Continuous arterial blood gas monitoring: a technology in transition [editorial; comment] Larson CP Jr. **Intensive Care Med** 1996 Nov;22(11):1141–3. Comment on: Intensive Care Med 1996 Nov;22(11):1162–8.

Clinical evaluation of a continuous intra-arterial blood gas system in critically ill patients [see comments] Roupie EE, et al. **Intensive Care Med** 1996 Nov;22(11):1162–8. Comment in: Intensive Care Med 1996 Nov;22(11):1141–3.

Continuous arterial gas monitoring: initial experience with the Paratrend 7 in children. Weiss IK, et al. **Intensive Care Med** 1996 Dec;22(12):1414–7 (13 ref.)

Evaluation of a regional oxygen saturation catheter for monitoring SjvO2 in head injured patients. Ritter AM, et al. **J Clin Monit** 1996 Jul;12(4):285–91

Accuracy and precision of a new, portable, handheld blood gas analyzer, the IRMA. Wahr JA, et al. **J Clin Monit** 1996 Jul;12(4):317–24

Pseudomonas aeruginosa outbreak associated with a contaminated blood-gas analyser in a neonatal intensive care unit [see comments] Garland SM, et al. **J Hosp Infect** 1996 Jun;33(2):145–51. Comment in: J Hosp Infect 1997 Mar;35(3):237–44.

Carbon dioxide and oxygen partial pressure measurements in the cerebrospinal fluid in a conventional blood gas analyzer: analysis of bias and precision. Venkatesh B, et al. **J Neurol Sci** 1997 Mar 20;147(1):5–8

Evaluation of the i-STAT portable clinical analyzer for use in a helicopter. Burritt MF, et al. **Scand J Clin Lab Invest Suppl** 1996;224:121–8

Comparison and assessment of blood gas related quantities including base excess, the gas exchange indices, and temperature corrected pH/PO2/PCO2, as defined in approved NCCLS standard C12-A, using a computer simulation of input variables. Degen BR, et al. **Scand J Clin Lab Invest Suppl** 1996;224:89–106

The Oxygen Status Algorithm on-line with the pH-blood gas analyzer. Larsen VH, et al. **Scand J Clin Lab Invest Suppl** 1996;224:9–19

[Single liquid phase calibration of instruments for blood gas and electrolyte analysis (letter)] Sachs C. **Ann Biol Clin (Paris)** 1997 May-Jun;55(3):255–6 **(Fre)**

[Accuracy of measurement and overestimation of CO2 of two capnometers intended for potential use in emergency medicine] Biedler A, et al. **Anaesthesist** 1996 Oct; 45(10):957–64 (Eng. Abstr.) **(Ger)**

[Preclinical blood gas analysis. Technical description--initial

experiences—indications] Hetz H, et al. **Anaesthesist** 1996 Aug;45(8):750–4 (Eng. Abstr.) **(Ger)**

[Lactate and glucose determination using biosensors in umbilical cord blood] Friedmann W, et al. **Z Geburtshilfe Neonatol** 1997 Jan–Feb;201(1):11–4 (Eng. Abstr.) **(Ger)**

METHODS

Comparison between CDI-100 continuous SO2, Hb, and Hct monitoring, intermittent ABL-4 saturation and Hb monitoring, and lab Hb and Hct monitoring. Nauwynck M, et al. **Acta Anaesthesiol Belg** 1996;47(4):199–206

Umbilical cord blood gas analysis at delivery. Thorp JA, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):517–22 (27 ref.)

Accuracy and clinical performance of a continuous intra-arterial blood-gas monitoring system during thoracoscopic surgery. Zollinger A, et al. **Br J Anaesth** 1997 Jul;79(1):47–52

Measurement and interpretation of arterial blood gases. Syabbalo N. **Br J Clin Pract** 1997 Apr–May;51(3):173–6 (20 ref.)

Evaluation of the newborn's blood gas status. National Academy of Clinical Biochemistry. Brouillette RT, et al. **Clin Chem** 1997 Jan;43(1):215–21 (32 ref.)

Evaluation of a continuous cardiac output and mixed venous oxygen saturation catheter in critically ill surgical patients [see comments] Burchell SA, et al. **Crit Care Med** 1997 Mar;25(3):388–91. Comment in: Crit Care Med 1997 Mar;25(3):381–2.

Continuous noninvasive measurement of cerebral arterial and venous oxygen saturation at the bedside in mechanically ventilated neonates. Wolf M, et al. **Crit Care Med** 1997 Sep;25(9):1579–82

Is arterialized earlobe blood PO2 an acceptable substitute for arterial blood PO2? [letter; comment] Dall'Ava-Santucci J, et al. **Eur Respir J** 1996 Jun; 9(6):1329–30. Comment on: Eur Respir J 1996 Feb;9(2):186–9.

Effects of four different methods of sampling arterial blood and storage time on gas tensions and shunt calculation in the 100% oxygen test. Smeenk FW, et al. **Eur Respir J** 1997 Apr;10(4):910–3

Usefulness of oxygen saturation (SpO2) monitoring in sick preterm neonates. Guruprasad G, et al. **Indian Pediatr** 1997 Feb;34(2) 131–2

Type of solution and PCO2 measurement errors during tonometry. Kolkman JJ, et al. **Intensive Care Med** 1997 Jun;23(6):658–63

Time to reassess the term "base excess" for negative acid–base balance [letter] McGing PG, et al. **Intensive Care Med** 1997 Jul;23(7):797

Gastric tonometry: does it work? [editorial] Russell JA. **Intensive Care Med** 1997 Jan;23(1):3–6

Pro: is continuous intra-arterial blood gas and pH monitoring justifiable? Gilbert HC, et al. **J Clin Monit** 1996 Mar; 12(2):179–81

Con: is continuous intra-arterial blood gas and pH monitoring justifiable? Hoffer JL, et al. **J Clin Monit** 1996 Mar; 12(2):183–9

Accuracy of measurement of an extremely high PCO2 [letter] Tsuji K, et al. **J Clin Monit** 1996 Mar;12(2):205–6

Evaluation of the i-STAT portable clinical analyzer for use in a helicopter. Burritt MF, et al. **Scand J Clin Lab Invest Suppl** 1996;224:121–8

Comparison and assessment of blood gas related quantities including base excess, the gas exchange indices, and temperature corrected pH/PO2/PCO2, as defined in approved NCCLS standard C12-A, using a computer simulation of input variables. Degen BR, et al. **Scand J Clin Lab Invest Suppl** 1996;224:89–106

The Oxygen Status Algorithm on-line with the pH-blood gas analyzer. Larsen VH, et al. **Scand J Clin Lab Invest Suppl** 1996;224:9–19

A new method for measuring nitrogen and gases in blood. Ledez KM, et al. **Undersea Hyperb Med** 1996 Dec; 23(4):235–42

[Importance of correcting the temperature in the determination of arterial gasometry] Izquierdo M, et al. **Arch Bronconeumol** 1997 Feb;33(2):104–6 (Eng. Abstr.) **(Spa)**

STANDARDS

Standardizing oxygen measurements [letter; comment] Petty TL. **Crit Care Med** 1997 Aug;25(8):1437. Comment on: Crit Care Med 1997 Jan;25(1):6–8. Comment on: Crit Care Med 1997 Jan;25(1):41–5.

Practice guideline for arterial blood gas measurement in the intensive care unit decreases numbers and increases appropriateness of tests [see comments] Pilon CS, et al. **Crit Care Med** 1997 Aug;25(8):1308–13. Comment in: Crit Care Med 1997 Aug;25(8):1262–3.

Intra-arterial blood gas monitoring system: more accurate values can be obtained. Kurahashi K, et al. **J Clin Monit** 1996 Mar;12(2):141–7

Biosafety implications in sample introduction: module design characteristics for discrete-sample systems used in critical whole blood analyte testing environments. Degen BR, et al. **Scand J Clin Lab Invest Suppl** 1996;224:111–20 (4 ref.)

Evaluation of protein containing quality control materials for blood gas analysis. Sprokholt R, et al. **Scand J Clin Lab Invest Suppl** 1996;224:71–81

UTILIZATION

Housestaff experience, workload, and test ordering in a neonatal intensive care unit. Griffith CH 3rd, et al. **Acad Med** 1996 Oct;71(10):1106–8

VETERINARY

Blood gas measurements. Brock N. **Can Vet J** 1996 Oct; 37(10):631–3

BLOOD GAS MONITORING, TRANSCUTANEOUS

The effect of pneumotachometer dead space on transcutaneously measured PCO2 in ventilated newborn infants [letter] Figueras J, et al. **Acta Paediatr** 1997 Mar; 86(3):334

Clinical value of transcutaneous PO2 assessment during hyperbaric oxygen therapy. van der Kleij AJ, et al. **Adv Exp Med Biol** 1997;411:113–20

Assessment of upper limb function in hemiplegia by measuring transcutaneous oxygen tension. Kurabayashi H, et al. **Am J Phys Med Rehabil** 1996 Sep–Oct;75(5):353–5

Noninvasive monitoring of carbon dioxide during respiratory failure in toddlers and infants: end-tidal versus transcutaneous carbon dioxide. Tobias JD, et al. **Anesth Analg** 1997 Jul;85(1):55–8

Reliability of transcutaneous oximeter electrode heating power during exercise in patients with intermittent claudication. Gardner AW. **Angiology** 1997 Mar; 48(3):229–35

TcPO2 as an accurate predictor of therapy in limb salvage. Bunt TJ, et al. **Ann Vasc Surg** 1996 May;10(3):224–7

Arterial oxygen partial pressures reduce the insulin-dependent induction of the perivenously located glucokinase in rat hepatocyte cultures: mimicry of arterial oxygen pressures by H2O2. Kietzmann T, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):17–20

Predictors of transcutaneous oxygen tension in the lower limbs of diabetic subjects. Boyko EJ, et al. **Diabet Med** 1996 Jun;13(6):549–54

Long-term transcutaneous monitoring of oxygen tension and carbon dioxide at 42 degrees C in critically ill neonates: improved performance of the tcpo2 monitor with topical metabolic inhibition. Fanconi S, et al. **Eur J Pediatr** 1996 Dec;155(12):1043–6

The predictive value of laser Doppler fluxmetry and transcutaneous oximetry for clinical outcome in patients undergoing revascularisation for severe leg ischaemia. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Jan;13(1):54–9

Transcutaneous and arterial carbon dioxide tension during intermittent umbilical cord occlusion in fetal sheep. Bergmans MG, et al. **Gynecol Obstet Invest** 1997; 43(3):150–4

Transcutaneous oxygen pressure as predictive parameter for ulcer healing in endstage vascular patients treated with spinal cord stimulation. Claeys LG, et al. **Int Angiol** 1996 Dec;15(4):344–9

Infrapopliteal transcatheter interventions for limb salvage in diabetic patients: importance of aggressive interventional approach and role of transcutaneous oximetry. Hanna GP, et al. **J Am Coll Cardiol** 1997 Sep;30(3):664–9

Application of transcutaneous blood carbon dioxide monitoring to the magnetic resonance imaging of rat. Yamamoto T, et al. **J Med Eng Technol** 1996 Jul–Oct; 20(4–5):164–8

Skin blood flow influences the transcutaneous PCO2 (tc PCO2) during stress in the guinea pig. Braems GA, et al. **J Perinat Med** 1996;24(2):155–61

Transcutaneous carbon dioxide measurement after craniotomy in spontaneously breathing patients. Drummond KJ, et al. **Neurosurgery** 1997 Aug;41(2):361–5; discussion 365–7

Changes in arterial and transcutaneous oxygen and carbon dioxide tensions during and after voluntary hyperventilation. Steurer J, et al. **Respiration** 1997; 64(3):200–5

Doctors and the health industry: a case study of transcutaneous oxygen monitoring in neonatal intensive care. Miké V, et al. **Soc Sci Med** 1996 May;42(9):1247–58

[Laser-Doppler flowmetry and arterial diseases of the limbs. Correlations with measurement of transcutaneous oxygen pressure] Schmidt C, et al. **J Mal Vasc** 1996;21(5):294–8 (Eng. Abstr.) **(Fre)**

[Transcutaneous oximetry in smokers with moderate hypertension and peripheral arterial disease treated with amlodipine and defibrotide, also with total smoking cessation] Cicco G, et al. **Minerva Cardioangiol** 1995 Oct; 43(10):423–8 (Eng. Abstr.) **(Ita)**

[Possibilities of transcutaneous monitoring of blood gases] Osipova NA, et al. **Anesteziol Reanimatol** 1997 Mar–Apr; (2):10–3 (Eng. Abstr.) **(Rus)**

[Usefulness of the visual analysis of night oximetry as a screening method in patients with suspected clinical obstructive sleep apnea syndrome] Rodríguez González-Moro JM, et al. **Arch Bronconeumol** 1996 Nov; 32(9):437–41 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Effects of motion, ambient light, and hypoperfusion on pulse oximeter function. Trivedi NS, et al. **J Clin Anesth** 1997 May;9(3):179–83

Pulse oximeter performance during desaturation and resaturation: a comparison of seven models. Trivedi NS, et al. **J Clin Anesth** 1997 May;9(3):184–8

Validation of reflectance pulse oximetry: an evaluation of a new sensor in piglets. Nijland R, et al. **J Clin Monit** 1997 Jan;13(1):43–9

[Simultaneous measurements of end-expiratory and transcutaneous carbon dioxide partial pressure in ventilated premature and newborn infants] Arsowa S, et al. **Klin Padiatr** 1997 Mar–Apr;209(2):47–53 (Eng. Abstr.) **(Ger)**

STANDARDS

Does gastric tonometry work? No. Benjamin E, et al. **Crit Care Clin** 1996 Jul;12(3):587–601 (77 ref.)

Does gastric tonometry work? Yes. Brown SD, et al. **Crit Care Clin** 1996 Jul;12(3):569–85 (72 ref.)

BLOOD GLUCOSE

see related
GLUCOSE CLAMP TECHNIQUE
GLUCOSE TOLERANCE TEST
HEMOGLOBIN A, GLYCOSYLATED
HYPERGLYCEMIA
HYPOGLYCEMIA

Relation of electrocardiographic left ventricular hypertrophy with and without T-wave changes to systemic blood pressure, body mass, and serum lipids and blood glucose levels in Japanese men. Ichihara Y, et al. **Am J Cardiol** 1997 Sep 15;80(6):730–5

Effect of glycemic control on the kinetics of whole-body protein metabolism in obese subjects with non-insulin-dependent diabetes mellitus during iso- and hypoenergetic feeding. Gougeon R, et al. **Am J Clin Nutr** 1997 Mar;65(3):861–70

Ascertaining hypoglycorrhachia in an acute patient. Skipper BJ, et al. **Am J Emerg Med** 1997 Jul;15(4):378–80

Continuous quality improvement can improve glycemic control for HMO patients with diabetes. O'Connor PJ, et al. **Arch Fam Med** 1996 Oct;5(9):502–6

Long-term instability of fasting plasma glucose, a novel predictor of cardiovascular mortality in elderly patients with non-insulin-dependent diabetes mellitus: the Verona Diabetes Study. Muggeo M, et al. **Circulation** 1997 Sep 16;96(6):1750–4

Complications in IDDM are caused by elevated blood glucose level: the Stockholm Diabetes Intervention Study (SDIS) at 10-year follow up. Reichard P, et al. **Diabetologia** 1996 Dec;39(12):1483–8

Diurnal variations in cardiovascular function and glucose regulation in normotensive humans. Biston P, et al. **Hypertension** 1996 Nov;28(5):863–71

Diabetic peripheral neuropathy: effects of age, duration of diabetes, glycemic control, and vascular factors. Valensi P, et al. **J Diabetes Complications** 1997 Jan–Feb;11(1):27–34

Clinical utility of a glucose reflectance meter for screening neonates for hypoglycemia. Garland J, et al. **J Perinatol** 1996 Jul–Aug;16(4):250–3; quiz 254–5

Evaluation of neonatal whole blood versus plasma glucose concentration by ion-selective electrode technology and comparison with two whole blood chromogen test strip methods. Giep TN, et al. **J Perinatol** 1996 Jul–Aug; 16(4):244–9

Risk factors for coronary heart disease in Asian Indians [letter; comment] Yudkin JS. **Lancet** 1996 Nov 2; 348(9036):1241; discussion 1242. Comment on: Lancet 1996 Aug 10;348(9024):358–63.

Does hyperglycaemia have an influence upon colour vision of patients with diabetes mellitus? North RV, et al. **Ophthalmic Physiol Opt** 1997 Mar;17(2):95–101

Hypertension in Pima Indians: prevalence and predictors. de Courten MP, et al. **Public Health Rep** 1996;111 Suppl 2:40–3

ANALYSIS

Comparison between a rapid glycohaemoglobin (HbA1c) immunoassay and other indices of glycaemic control. Le Marois E, et al. **Acta Diabetol** 1996 Sep;33(3):232–5

Diagnosis of hypoglycaemia: effects of blood sample handling and evaluation of a glucose photometer in the low glucose range. Elimam A, et al. **Acta Paediatr** 1997 May;86(5):474–8

Comparison of some blood parameters of captured and farmed red deer (Cervus elaphus) hinds. Zomborszky Z, et al. **Acta Vet Hung** 1996;44(4):433–41

Metabolic response to lactitol and xylitol in healthy men. Natah SS, et al. **Am J Clin Nutr** 1997 Apr;65(4):947–50

Acetylation of or beta-cyclodextrin addition to potato beneficial effect on glucose metabolism and appetite sensations. Raben A, et al. **Am J Clin Nutr** 1997 Aug; 66(2):304–14

Assessment of a critical limit protocol for point-of-care glucose testing. Lum G. **Am J Clin Pathol** 1996 Sep; 106(3):390–5

Comparison of two brands of test strips for self-monitoring of blood glucose. Ho SS, et al. **Am J Health Syst Pharm** 1997 May 1;54(9):1058–62

Relationship between home glucose testing and hemoglobin Alc in type II diabetes patients. Wieland LD, et al. **Am J Health Syst Pharm** 1997 May 1;54(9):1062–5

A randomized controlled trial of strict glycemic control and tertiary level obstetric care versus routine obstetric care in the management of gestational diabetes: a pilot study. Garner P, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):190–5

Office-based blood glucose meters in screening for gestational diabetes [letter; comment] Massé J. **Am J Obstet Gynecol** 1996 May;174(5):1667–8. Comment on: Am J Obstet Gynecol 1995 Oct;173(4):1267–72.

Threshold value of glucose screening tests in pregnancy: could it be standardized for every population? Yalçin HR, et al. **Am J Perinatol** 1996 Jul;13(5):317–20

Effects of 2-deoxy-D-glucose and insulin on plasma glucose levels and behavioral thermoregulation of toads. Branco LG. **Am J Physiol** 1997 Jan;272(1 Pt 2):R1–5

Elevated plasma glucose 2 h postchallenge predicts defects in beta-cell function. Byrne MM, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E572–9

Involvement of capsaicin-sensitive nerves in regulating the hormone and glucose metabolic response to endotoxin. Morgan AE, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E328–35

Negative energy balance with exercise in identical twins: plasma glucose and insulin responses. Oppert JM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E248–54

Decreased muscle insulin receptor kinase correlates with insulin resistance in normoglycemic Pima Indians. Youngren JF, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E276–83

Effects of temperature on hematologic and serum biochemical profiles of hybrid striped bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al. **Am J Vet Res** 1997 Feb;58(2):126–30

Lifetime-based sensing of glucose using energy transfer with a long lifetime donor. Tolosa L, et al. **Anal Biochem** 1997 Jul 15;250(1):102–8

Thin-film microbiosensors for glucose-lactate monitoring. Jobst G, et al. **Anal Chem** 1996 Sep 15;68(18):3173–9

Characterization of immobilization of an enzyme in a modified Y zeolite matrix and its application to an amperometric glucose biosensor. Liu B, et al. **Anal Chem** 1997 Jul 1;69(13):2343–8

Statistics for critical clinical decision making based on readings of pairs of implanted sensors. Schmidtke DW, et al. **Anal Chem** 1996 Sep 1;68(17):2845–9

An assessment of the Boehringer Advantage blood glucose meter. Duly EB, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):422–3

Novel instrumentation for real-time monitoring using miniaturized flow systems with integrated biosensors. Freaney R, et al. **Ann Clin Biochem** 1997 May;34 (Pt 3):291–302

The use of a Hemocue blood glucose analyser in a neonatal unit. Leonard M, et al. **Ann Clin Biochem** 1997 May;34 (Pt 3):287–90

Improving the quality of near-patient blood glucose measurement. Rumley AG. **Ann Clin Biochem** 1997 May; 34 (Pt 3):281–6

Exhaustion of blood glucose response and enhancement of insulin response after repeated glucagon injections in type-2 diabetes: potentiation by progressive hyperglycemia. Castillo MJ, et al. **Ann Endocrinol (Paris)** 1996;57(5):395–402

Effect of egg consumption in healthy volunteers: influence of yolk, white or whole-egg on gastric emptying and on glycemic and hormonal responses. Pelletier X, et al. **Ann Nutr Metab** 1996;40(2):109–15

Glucose control lowers the risk of wound infection in diabetics after open heart operations. Zerr KJ, et al. **Ann Thorac Surg** 1997 Feb;63(2):356–61

An improved enzymatic assay for glucose determination in blood serum using a 1,1'-dimethylferricinium dye. Male KB, et al. **Appl Biochem Biotechnol** 1996 Dec;61(3):267–76

Measuring blood glucose in neonatal units: how does homecue compare? Deshpande SA, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov;75(3):F202–8

Comparison of two cotside methods for the detection of hypoglycaemia among neonates in Nepal. Ellis M, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F122–5

An ignorant belief network to forecast glucose concentration from clinical databases. Ramoni M, et al. **Artif Intell Med** 1995 Dec;7(6):541–59

Management of diabetes with glucose sensors and implantable insulin pumps. From the dream of the 60s to the realities of the 90s. Selam JL. **ASAIO J** 1997 May-Jun;43(3):137–42 (69 ref.)

Influence of apo E phenotype on postprandial triglyceride and glucose responses in subjects with and without coronary heart disease. Dart A, et al. **Atherosclerosis** 1997 Apr;130(1-2):161–70

Insulin sensitivity in clinically healthy individuals with microalbuminuria. Jensen JS, et al. **Atherosclerosis** 1996 Jan 5;119(1):69–76

Lipoprotein (a) concentrations and apolipoprotein (a) phenotypes in normoglycaemic relatives of type 2 diabetic patients. Stewart MW, et al. **Atherosclerosis** 1996 Jul; 124(1):119–24

Effect of a new hypoglycemic agent, A-4166 [(-)-N-(trans-4-isopropylcyclohexanecarbonyl)-D-phenylalanine], on postprandial blood glucose excursion: comparison with voglibose and glibenclamide. Ikenoue T, et al. **Biol Pharm Bull** 1997 Apr;20(4):354–9

A glucose biosensor based on an oxygen electrode: in-vitro performances in model buffer solution and in blood plasma. Yang S, et al. **Biomed Instrum Technol** 1996 Jan-Feb; 30(1):55–61

Effect of acarbose on blood glucose profiles and plasma 1,5-anhydro-d-glucitol in type 2 diabetes poorly controlled by sulfonylurea therapy. Hotta N, et al. **Biomed Pharmacother** 1996;50(6-7):297–302

Monitoring blood glucose in gestational diabetes [editorial] Bargiota A, et al. **BMJ** 1997 Jan 4;314(7073):3–4

Comparison of blood or urine testing by patients with newly diagnosed non-insulin dependent diabetes: patient survey after randomised crossover trial. Miles P, et al. **BMJ** 1997 Aug 9;315(7104):348–9

A quality assessment scheme for blood glucose monitoring: competition improves performance. Leonard MB, et al. **Br J Clin Pract** 1996 Mar;50(2):70–2

Alterations in plasma prolactin and glucose levels induced by surgical stress in hyperprolactinemic female rats. Reis FM, et al. **Braz J Med Biol Res** 1996 Jun;29(6):811–5

Glucose intolerance during prolonged sevoflurane anaesthesia. Iwasaka H, et al. **Can J Anaesth** 1996 Oct; 43(10):1059–61

Repeated intraportal injections of subtherapeutic islet cell isografts restore normoglycemia in streptozotocin-diabetic rats. Morsiani E, et al. **Cell Transplant** 1997 Jan-Feb; 6(1):17–22

Evaluation of the YSI 2300 glucose analyzer: algorithm-corrected results are accurate and specific. Astles JR, et al. **Clin Biochem** 1996 Feb;29(1):27–31

A comparison of statistical techniques to evaluate the performance of the Glucometer Elite blood glucose meter. Harrison B, et al. **Clin Biochem** 1996 Dec;29(6):521–7

Hypoglycemia is effectively evaluated at the bedside by the Ames Glucometer Elite. Innanen VT, et al. **Clin Biochem** 1996 Jun;29(3):279–81

Accurate and precise isotope dilution mass spectrometry method for determining glucose in whole blood. Hannestad U, et al. **Clin Chem** 1997 May;43(5):794–800

A hospital system glucose meter that produces plasma-equivalent values from capillary, venous, and arterial blood. Kempe KC, et al. **Clin Chem** 1997 Sep; 43(9):1803–4

Use of an enzyme thermistor for semi-continuous blood glucose measurements. Carlsson T, et al. **Clin Chim Acta** 1996 Jul 30;251(2):187–200

Fasting plasma glucose and diabetes diagnosis [letter; comment] Giavarina D, et al. **Clin Chim Acta** 1996 Aug 30;252(2):209–13. Comment on: Clin Chim Acta 1995 Jul 14;238(2):199–208.

Blood glucose: its measurement and clinical importance. Marks V. **Clin Chim Acta** 1996 Jul 15;251(1):3–17

Malaria, blood glucose, and the role of tumour necrosis factor (TNF) in mice. Elased KM, et al. **Clin Exp Immunol** 1996 Sep;105(3):443–9

Changes in corneal and lens autofluorescence and blood glucose levels in diabetics: parameters of blood glucose control. Mori F, et al. **Curr Eye Res** 1997 Jun;16(6):534–8

Aberrant results due to incorrect use of the Bayer Glucometer 4 meter [letter; comment] Alexander J. **Diabet Med** 1997 Jan;14(1):86. Comment on: Diabet Med 1996 Jun;13(6):594.

Admission plasma glucose and diabetes mellitus in elderly admissions to hospital. Croxson SC, et al. **Diabet Med** 1997 May;14(5):381–5

Evaluation of fasting plasma glucose as a screening test for diabetes mellitus in Singaporean adults [see comments] Lee CH, et al. **Diabet Med** 1997 Feb;14(2):119–22. Comment in: Diabet Med 1997 Feb;14(2):95–8.

Aberrant results due to incorrect use of the Bayer glucometer 4 meter [letter] [see comments] Martin SC, et al. **Diabet Med** 1996 Jun;13(6):594. Comment in: Diabet Med 1997 Jan;14(1):86.

Finger-pricking devices: are they less painful than lancets? [letter] Veglio M, et al. **Diabet Med** 1996 Jun;13(6):598

Fasting plasma glucose as a screening test for diabetes mellitus [letter] Wiener K. **Diabet Med** 1997 Aug; 14(8):711–2

Islet capillary blood pressure increase mediated by hyperglycemia in NIDDM GK rats. Carlsson PO, et al. **Diabetes** 1997 Jun;46(6):947–52

Dyslipidemia and hyperglycemia predict coronary heart disease events in middle-aged patients with NIDDM. Lehto S, et al. **Diabetes** 1997 Aug;48(8):1354–9

Differences between the tolbutamide-boosted and the insulin-modified minimal model protocols. Saad MF, et al. **Diabetes** 1997 Jul;46(7):1167–71

Impaired glucose tolerance is normalized by treatment with the thiazolidinedione troglitazone [see comments] Antonucci T, et al. **Diabetes Care** 1997 Feb;20(2):188–93 . Comment in: Diabetes Care 1997 Aug;20(8):1340–1.

Characteristics related to poor glycemic control in NIDDM patients in community practice. Blaum CS, et al. **Diabetes Care** 1997 Jan;20(1):7–11

Conference report: approaches to the treatment of type II diabetes and developments in glucose monitoring and insulin administration. Bloomgarden ZT. **Diabetes Care** 1996 Aug;19(8):906–9

Understanding error grid analysis [editorial; comment] Cox DJ, et al. **Diabetes Care** 1997 Jun;20(6):911–2 (36 ref.). Comment on: Diabetes Care 1997 Jun;20(6):1034–6.

Long-term therapy of IDDM with an implantable insulin pump. The Implantable Insulin Pump Trial Study Group. Dunn FL, et al. **Diabetes Care** 1997 Jan;20(1):59–63

Subcutaneous glucagon-like peptide I combined with insulin normalizes postcibal glycemic excursions in IDDM. Dupré J, et al. **Diabetes Care** 1997 Mar;20(3):381–4

Comparison of fasting and 2-hour glucose and HbA1c levels for diagnosing diabetes. Diagnostic criteria and performance revisited. Engelgau MM, et al. **Diabetes Care** 1997 May;20(5):785–91

Influence of sample temperature on reflectance photometry and electrochemical glucometer measurements. Fazel A, et al. **Diabetes Care** 1996 Jul;19(7):771–4

A prospective study of coronary heart disease in relation to fasting insulin, glucose, and diabetes. The Atherosclerosis Risk in Communities (ARIC) Study. Folsom AR, et al. **Diabetes Care** 1997 Jun;20(6):935–42

Influence of simulated altitude on the performance of five blood glucose meters. Gautier JF, et al. **Diabetes Care** 1996 Dec;19(12):1430–3

Potato dumplings elicit a low plasma glucose response in NIDDM patients [letter] Giacco R, et al. **Diabetes Care** 1997 Mar;20(3):460

Reservations on the use of error grid analysis for the validation of blood glucose assays [see comments] Gough DA, et al. **Diabetes Care** 1997 Jun;20(6):1034–6. Comment in: Diabetes Care 1997 Jun;20(6):911–2.

Noninvasive blood glucose monitoring. Klonoff DC. **Diabetes Care** 1997 Mar;20(3):433–7 (28 ref.)

Fasting plasma glucose as a screening test for diabetes and its relationship with cardiovascular risk factors in Hong Kong Chinese. Ko GT, et al. **Diabetes Care** 1997 Feb; 20(2):170–2

Diabetes, asymptomatic hyperglycemia, and 22-year mortality in black and white men. The Chicago Heart Association Detection Project in Industry Study [see comments] Lowe LP, et al. **Diabetes Care** 1997 Feb; 20(2):163–9. Comment in: Diabetes Care 1997 Feb;20(2):127–8.

Prevalence and determinants of solid and liquid gastric emptying in unstable type I diabetes. Relationship to postprandial blood glucose concentrations. Lyrenås EB, et al. **Diabetes Care** 1997 Mar;20(3):413–8

Evaluation of the performance of blood glucose meters in pregnant women [letter; comment] Massé J. **Diabetes Care** 1996 Sep;19(9):1031–3. Comment on: Diabetes Care 1996 Mar;19(3):268–9.

Slow gastric emptying in type I diabetes: relation to autonomic and peripheral neuropathy, blood glucose, and glycemic control. Merio R, et al. **Diabetes Care** 1997 Mar; 20(3):419–23

Lipid levels in former gestational diabetic mothers. Meyers-Seifer CH, et al. **Diabetes Care** 1996 Dec; 19(12):1351–6

A two-step strategy for identification of high-risk subjects for a clinical trial of prevention of NIDDM. Narayan KM, et al. **Diabetes Care** 1996 Sep;19(9):972–8

Elevated plasma levels of transforming growth factor-beta 1 in NIDDM. Pfeiffer A, et al. **Diabetes Care** 1996 Oct; 19(10):1113–7

Accuracy of home blood glucose meters during hypoglycemia. Trajanoski Z, et al. **Diabetes Care** 1996 Dec; 19(12):1412–5

Body iron stores are associated with serum insulin and blood glucose concentrations. Population study in 1,013 eastern Finnish men. Tuomainen TP, et al. **Diabetes Care** 1997 Mar; 20(3):426–8

Effect of small sample volume on five glucose monitoring systems [letter] Velazquez FR, et al. **Diabetes Care** 1996 Aug;19(8):903–4

The glycemic index: flogging a dead horse? [see comments] Wolever TM. **Diabetes Care** 1997 Mar;20(3):452–6 (41 ref.) . Comment in: Diabetes Care 1997 Mar;20(3):241–3.

No acute effect of high blood glucose on nerve conduction in adolescents with IDDM. Hyllienmark L, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2-3):157–61

Association of vagal tone with serum insulin, glucose, and diabetes mellitus--The ARIC Study. Liao D, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):211–21

Interference by gliclazide in the glucose oxidase/peroxidase method for glucose assay. Nakashima E, et al. **Diabetes Res Clin Pract** 1995 Nov;30(2):149–52

Carotid artery stenosis is related to blood glucose level in an elderly Caucasian population: the Hoorn Study. Beks PH, et al. **Diabetologia** 1997 Mar;40(3):290–8

Levels of amniotic fluid insulin and profiles of maternal blood glucose in pregnant women with diabetes type-I. Kainer F, et al. **Early Hum Dev** 1997 Sep 19;49(2):97–105

In vivo evidence for the existence of a threshold for hyperglycemia-induced major fetal malformations: relevance to the etiology of diabetic teratogenesis. Torchinsky A, et al. **Early Pregnancy** 1997 Mar;3(1):27–33

Glycaemic responses after ingestion of some local foods by non-insulin dependent diabetic subjects. Ayuo PO, et al. **East Afr Med J** 1996 Dec;73(12):782–5

Chronic low dose islet amyloid polypeptide infusion reduces food intake, but does not influence glucose metabolism, in unrestrained conscious rats: studies using a novel aortic catheterization technique. Arnelo U, et al. **Endocrinology** 1997 Oct;138(10):4081–5

Glucagon response to hypoglycemia is improved by

insulin-independent restoration of normoglycemia in diabetic rats. Shi ZQ, et al. **Endocrinology** 1996 Aug; 137(8):3193–9

Insulin and glucose response following oral glucose administration in well-conditioned ponies. Freestone JF, et al. **Equine Vet J Suppl** 1992 Feb;(11):13–7

Cortisol, testosterone, and insulin action during intense swimming training in humans. Tyndall GL, et al. **Eur J Appl Physiol** 1996;73(1–2):61–5

Evaluation of the Radiometer whole blood glucose measuring system, EML 105. Harff GA, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar;35(3):241–2

Multicentre evaluation of the EBIO plus glucose analyser. Treskes M, et al. **Eur J Clin Chem Clin Biochem** 1996 Sep; 34(9):777–84

Hyperglycemia induced by the 5-HT receptor agonist, 5-methoxytryptamine, in rats: involvement of the peripheral 5-HT2A receptor. Yamada J, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):235–40

Memory scores in middle-aged rats predict later deficits in memory, paradoxical sleep, and blood glucose regulation in old age. Stone WS, et al. **Exp Aging Res** 1997 Jul–Sep; 23(3):287–300

Biosensors based on flow-through systems. Spener F, et al. **EXS** 1997;81:27–44

Effect of metformin on glucose disposal and hyperinsulinaemia in a 14-year-old boy with acanthosis nigricans. Lee PJ, et al. **Horm Res** 1997;48(2):88–92

Blood glucose monitoring can predict outcome in fulminant hepatic failure [letter] Karande S, et al. **Indian J Gastroenterol** 1997 Apr;16(2):76

Intravenous glucose tolerance test in Macaca radiata radiata. Sathya K, et al. **Indian J Physiol Pharmacol** 1997 Apr; 41(2):176–8

Non-invasive blood glucose monitoring by means of near infrared spectroscopy: methods for improving the reliability of the calibration models. Müller UA, et al. **Int J Artif Organs** 1997 May;20(5):285–90

Is insulin an independent risk factor for hypertension? The Paris Prospective Study. Fagot-Campagna A, et al. **Int J Epidemiol** 1997 Jun;26(3):542–50

Influence of obesity on plasma lipoproteins, glycaemia and insulinaemia in patients with familial combined hyperlipidaemia. Ascaso JF, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):360–6

Leptin concentrations and insulin sensitivity in normoglycemic men. Haffner SM, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):393–9

Relationship of metabolic variables to abdominal adiposity measured by different anthropometric measurements and dual-energy X-ray absorptiometry in obese middle-aged women. Rissanen P, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):367–71

Glycemic control and transfer of health care among adolescents with insulin dependent diabetes mellitus. Orr DP, et al. **J Adolesc Health** 1996 Jan;18(1):44–7

Beneficial effects of chromium on glucose and lipid variables in control and somatotropin-treated pigs are associated with increased tissue chromium and altered tissue copper, iron, and zinc. Anderson RA, et al. **J Anim Sci** 1997 Mar; 75(3):657–61

Physiological and hormonal responses of lambs repeatedly implanted with zeranol and provided two levels of feed intake. Hufstedler GD, et al. **J Anim Sci** 1996 Oct; 74(10):2376–84

Effect of feeding and feed deprivation on plasma concentrations of prolactin, insulin, growth hormone, and metabolites in horses. Nadal MR, et al. **J Anim Sci** 1997 Mar;75(3):736–44

The relationships of testosterone, estradiol, dehydroepiandrosterone-sulfate and sex hormone-binding globulin to lipid and glucose metabolism in healthy men. Shono N, et al. **J Atheroscler Thromb** 1996;3(1):45–51

Glucose tolerance and postprandial glucose and insulin kinetics in rats with short- and long-term alpha 1-adrenergic blockade. Fajardo N, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):402–8

Blood glucose concentration after cardiopulmonary resuscitation influences functional neurological recovery in human cardiac arrest survivors. Müllner M, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):430–6

Post-column enzyme reactors for chemiluminometric detection of glucose, 1,5-anhydroglucitol and 3-hydroxybutyrate in an anion-exchange chromatographic system. Kiba N, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):393–8

Free insulin-like growth factor I (IGF-I) in healthy subjects: relationship with IGF-binding proteins and insulin sensitivity. Nyomba BL, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2177–81

How accurate is glucose analysis in the presence of multiple interfering substances in the neonate? (glucose analysis and interfering substances). Jain R, et al. **J Clin Lab Anal** 1996; 10(1):13–6

Blood glucose reagent strip tests in the operating room: influence of hematocrit, partial pressure of oxygen, and blood glucose level--a comparison of the BM-test 1-44, BM-Accutest, and Satellite G reagent strip systems. Cross MH, et al. **J Clin Monit** 1996 Jan;12(1):27–33

Mild insulin resistance during oral glucose tolerance test (OGTT) in women with acne. Aizawa H, et al. **J Dermatol** 1996 Aug;23(8):526–9

Tear glucose estimation--an alternative to blood glucose estimation [letter; comment] Gupta N, et al. **J Indian Med Assoc** 1996 Oct;94(10):391. Comment on: J Indian Med Assoc 1995 Apr;93(4):127–8.

CSF/blood glucose ratio and other prognostic indices in pyogenic meningitis. Javadekar BB, et al. **J Indian Med Assoc** 1997 Jan;95(1):9–11

A comparison of the 3 H glucose tolerance test and the 2 H value in identifying risk for excessive fetal growth. Curet LB, et al. **J Matern Fetal Med** 1997 Jan–Feb;6(1):28–30

Prevalence of abnormal glucose tolerance in Khon Kaen Province and validity of urine stick and fasting blood sugar as screening tools. Chaisiri K, et al. **J Med Assoc Thai** 1997 Jun;80(6):363–71

Source and amount of carbohydrate affect postprandial glucose and insulin in normal subjects. Wolever TM, et al. **J Nutr** 1996 Nov;126(11):2798–806

Prediction of glucose and insulin responses of normal subjects after consuming mixed meals varying in energy, protein, fat, carbohydrate and glycemic index. Wolever TM, et al. **J Nutr** 1996 Nov;126(11):2807–12

A comparative study of high-fat diet containing fish oil or lard on blood glucose in genetically diabetic (db/db) mice. Miura T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr; 43(2):225–31

Hypoglycemic activity of to-kai-san (Chinese medicines) in normal and KK-Ay mice. Miura T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):11–7

Definition of neonatal hypoglycaemia: is there a change? Koh TH, et al. **J Paediatr Child Health** 1996 Aug;32(4):302–5

Parental involvement in diabetes management tasks: relationships to blood glucose monitoring adherence and metabolic control in young adolescents with insulin-dependent diabetes mellitus. Anderson B, et al. **J Pediatr** 1997 Feb;130(2):257–65

Point-of-care glucose testing in the neonatal intensive care unit is facilitated by the use of the Ames Glucometer Elite electrochemical glucose meter. Innanen VT, et al. **J Pediatr** 1997 Jan;130(1):151–5

Relative effects of antepartum and intrapartum maternal blood glucose levels on incidence of neonatal hypoglycemia. Curet LB, et al. **J Perinatol** 1997 Mar–Apr; 17(2):113–5

Severe periodontitis and risk for poor glycemic control in patients with non-insulin-dependent diabetes mellitus. Taylor GW, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1085–93

Motivation and glycemic control in diabetes mellitus. Trigwell P, et al. **J Psychosom Res** 1997 Sep;43(3):307–15

A prospective study of insulin sensitivity and glucose metabolism in women using a continuous subdermal levonorgestrel implant system. Harper MA, et al. **J Soc Gynecol Investig** 1997 Mar–Apr;4(2):86–9

Comparison of capillary and venous blood lactate and glucose values during cycle ergometry. Flohr JA, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):261–4

Blood glucose levels and hypoglycaemia in full term neonates during the first 48 hours of life. Tanzer F, et al. **J Trop Pediatr** 1997 Feb;43(1):58–60

Serum fructosamine concentration as an index of glycemia in cats with diabetes mellitus and stress hyperglycemia. Crenshaw KL, et al. **J Vet Intern Med** 1996 Nov–Dec; 10(6):360–4

Revision of diagnostic criteria for diabetes [letter] Charles MA, et al. **Lancet** 1996 Dec 14;348(9042):1657–8

Random blood glucose alone in the diagnosis of cystic fibrosis related diabetes [letter] Yung B, et al. **Lancet** 1997 Mar 1;349(9052):619

Evidence for the modulation of spontaneous locomotor activity by higher serum glucose levels and/or spleen-derived factor(s) in diabetic mice. Kamei J, et al. **Life Sci** 1997;60(19):1699–708

Controlling blood glucose: insights from an engineering control systems perspective. Worthington DR. **Med Inf (Lond)** 1997 Jan–Mar;22(1):5–19 (28 ref.)

Lipoic acid reduces glycemia and increases muscle GLUT4 content in streptozotocin-diabetic rats. Khamaisi M, et al. **Metabolism** 1997 Jul;46(7):763–8

Hyperinsulinemia and hypofibrinolysis: effects of short-term optimized glycemic control with continuous insulin infusion in type II diabetic patients. Lormeau B, et al. **Metabolism** 1997 Sep;46(9):1074–9

Impaired nonoxidative glucose metabolism in patients with liver cirrhosis: effects of two insulin doses. Riggio O, et al. **Metabolism** 1997 Jul;46(7):840–3

L-arabinose selectively inhibits intestinal sucrase in an uncompetitive manner and suppresses glycemic response after sucrose ingestion in animals. Seri K, et al. **Metabolism** 1996 Nov;45(11):1368–74

The day-to-day variation in insulin sensitivity in non-insulin-dependent diabetes mellitus patients assessed by the hyperinsulinemic-euglycemic clamp method. Thomsen C, et al. **Metabolism** 1997 Apr;46(4):374–6

Effectiveness of phosphate supplementation in glucose intolerant, hypophosphatemic patients [letter] Wittmann I, et al. **Miner Electrolyte Metab** 1997;23(1):62–3

In vivo effects of peroxovanadium compounds in BB rats. Yale JF, et al. **Mol Cell Biochem** 1995 Dec 6-20; 153(1–2):181–90

Hepatic insulin gene expression as treatment for type 1 diabetes mellitus in rats. Muzzin P, et al. **Mol Endocrinol** 1997 Jun;11(6):833–7

A glucose-sensing polymer. Chen G, et al. **Nat Biotechnol** 1997 Apr;15(4):354–7

Glucose intolerance but normal satiety in mice with a null mutation in the glucagon-like peptide 1 receptor gene. Scrocchi LA, et al. **Nat Med** 1996 Nov;2(11):1254–8

Promoters of progression of diabetic nephropathy: the relative roles of blood glucose and blood pressure control. Alaveras AE, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:71–4

Insulin-like growth factor-I fails to reverse corticosteroid-induced protein catabolism in growing piglets. Hellstern G, et al. **Pediatr Res** 1996 Mar;39(3):421–6

Glycemic index of grain amaranth, wheat and rice in NIDDM subjects. Chaturvedi A, et al. **Plant Foods Hum Nutr** 1997;50(2):171–8

Naloxone attenuates serum corticosterone and augments serum glucose concentrations in broilers stimulated with adrenocorticotropin. Peebles ED, et al. **Poult Sci** 1997 Mar; 76(3):511–5

Insulin-like growth factor-I decreases sympathetic nerve activity: the effect is modulated by glycemic status. Duanmu Z, et al. **Proc Soc Exp Biol Med** 1997 Oct; 216(1):93–7

Acute alpha 2 blockade by idazoxan increases insulin and lowers plasma glucose during positron emission tomography. Schmidt ME, et al. **Psychopharmacol Bull** 1997;33(2):253–9

Noise stress does not modulate effects of smoking/nicotine on beta-endorphin, cortisol, ACTH, glucose, and mood. Gilbert DG, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(3):197–202

Determination of glucose levels using dried filter paper blood spots: new perspective in home monitoring. Ward LS, et al. **Rev Paul Med** 1996 Jan–Feb;114(1):1100–3

A new glucose sensor for use in whole blood. Ritter C, et al. **Scand J Clin Lab Invest Suppl** 1996;224:129–33

Is postnatal oral glucose tolerance testing necessary in all women with gestational diabetes. Tan YY, et al. **Singapore Med J** 1996 Aug;37(4):384–8

Blood glucose determination: point of care testing. Bennett BD. **South Med J** 1997 Jul;90(7):678–80

Feasibility of measuring blood glucose concentration by near-infrared Raman spectroscopy. Berger AJ, et al. **Spectrochim Acta A Mol Biomol Spectrosc** 1997 Feb; 53A(2):287–92

Stroke recurrence in diabetics. Does control of blood glucose reduce risk? Alter M, et al. **Stroke** 1997 Jun;28(6):1153–7

Mouse embryonic cardiac metabolism under euglycemic and hypoglycemic conditions [see comments] Peet JH, et al. **Teratology** 1996 Jul;54(1):20–6. Comment in: Teratology 1996 Nov;54(5):266.

Glucose concentrations in apheresis platelets [letter] Brecher ME, et al. **Transfusion** 1997 Apr;37(4):448

Evaluation of swirling, pH, and glucose tests for the detection of bacterial contamination in platelet concentrates. Wagner SJ, et al. **Transfusion** 1996 Nov–Dec;36(11–12):989–93

The importance of low blood glucose in the development of fetal sheep pancreatic endocrine cells transplanted into athymic mice. Tuch BE, et al. **Transplantation** 1996 Nov 27;62(10):1523–5

Effects of pressure on whole blood glucose measurements using the Bayer Glucometer 4 blood glucose meter. Edge CJ, et al. **Undersea Hyperb Med** 1996 Dec;23(4):221–4

Changes of blood metabolites and hormones in breeding calves associated with weaning. Hugi D, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):99–108

[Changes in glucose metabolism in gestational diabetes mellitus during and after pregnancy] Lauszus FF, et al. **Ugeskr Laeger** 1997 Jul 21;159(30):4631–5 (Eng. Abstr.) **(Dan)**

[What prevalence of diabetes or stored carbohydrate tolerance is found when specifically looking for glycosuria at any random time of the day in addition to determining blood sugar levels?] **Ned Tijdschr Geneeskd** 1997 May 24; 141(21):1066–7 **(Dut)**

[Evaluation and control of quality of bedside blood glucose analyzers in clinical services] Couderc R, et al. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):343–7 **(Fre)**

[Medium-level glucose control in non-insulin-dependent diabetics in Dakar (letter)] Sidibe EH. **Presse Med** 1996 Sep 7;25(25):1167 **(Fre)**

[Lactate and glucose determination using biosensors in umbilical cord blood] Friedmann W, et al. **Z Geburtshilfe Neonatol** 1997 Jan–Feb;201(1):11–4 (Eng. Abstr.) **(Ger)**

[The evaluation of the use of DEAE-dextran in glycemic control in diabetic patients in pregnancy] Valente M, et al. **Clin Ter** 1996 Nov;147(11):571–4 (Eng. Abstr.) **(Ita)**

[Blood glucose and insulin responses to oral glucose in hyperthyroidism] Pandolfi C, et al. **Minerva Endocrinol** 1996 Jun;21(2):63–5 (Eng. Abstr.) **(Ita)**

[Ischemic neuronal damage in early recovery. A morphological study on evolution of damage in hyperglycemia and normoglycemia] Usuda K, et al. **Nippon Ika Daigaku Zasshi** 1996 Dec;63(6):460–72 (Eng. Abstr.) **(Jpn)**

[Use of casual plasma glucose levels in community screening for diabetes mellitus] Tsukui S, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):304–8 (Eng. Abstr.) **(Jpn)**

[Intensified treatment of diabetes mellitus and prevention of the development or progression of complications]

Kawamori R. **Nippon Naika Gakkai Zasshi** 1997 Mar 10; 86(3):358–64 (9 ref.) **(Jpn)**

[Treatment of diabetes mellitus and its complications. 7. Control of blood glucose and diabetic microangiopathy] Shichiri M. **Nippon Naika Gakkai Zasshi** 1996 Sep 10; 85(9):1484–9 (7 ref.) **(Jpn)**

[A modified method of gas chromatography of sugars in human blood] Chepurnoĭ IP, et al. **Klin Lab Diagn** 1997 Jan;(1):31–2 **(Rus)**

[Specific features of studies of glucose in biological fluids (review)] Ruvinova LG, et al. **Vopr Pitan** 1996;(4):6–10 (43 ref.) (Eng. Abstr.) **(Rus)**

[Serum levels of uric acid, lipids and glucose in essential hypertension] Bogdanovska S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:214–6 (Eng. Abstr.) **(Scc)**

[Influence of the velocity of meal ingestion on postprandial glycemia] Frati-Munari AC, et al. **Gac Med Mex** 1996 Nov–Dec;132(6):565–8 (Eng. Abstr.) **(Spa)**

[Analysis of reliability of 3 portable blood glucose dosimeters. Comparison of various methods for the study of feasibility of clinical parameters] Gómez de la Cámara A, et al. **Med Clin (Barc)** 1997 Mar 22;108(11):410–3 **(Spa)**

[The validity of basal blood glucose in the control of non-insulin-dependent diabetic patients] Orozco D, et al. **Med Clin (Barc)** 1997 Mar 8;108(9):325–9 (Eng. Abstr.) **(Spa)**

BIOSYNTHESIS

Renal glucose production during insulin-induced hypoglycemia. Cersosimo E, et al. **Diabetes** 1997 Apr; 46(4):643–6

Modulation of glucose production by indomethacin and pentoxifylline in healthy humans. Corssmit EP, et al. **Metabolism** 1996 Dec;45(12):1458–65

CHEMISTRY

Beware of errors in blood glucose measurement [editorial; comment] Zaloga GP. **Crit Care Med** 1997 Feb;25(2):212 . Comment on: Crit Care Med 1997 Feb;25(2):231–5.

DRUG EFFECTS

Effects of midazolam on blood glucose fibrinolysis-serum lipids in normoglycemic-normolipidemic rats. Horák A, et al. **Acta Physiol Hung** 1996;84(3):217–21

Cephalic phase responses to sweet taste. Abdallah L, et al. **Am J Clin Nutr** 1997 Mar;65(3):737–43

Insulin lispro: its role in the treatment of diabetes mellitus. Campbell RK, et al. **Ann Pharmacother** 1996 Nov; 30(11):1263–71 (50 ref.)

Pharmacological regulation of blood glucose levels in non-insulin-dependent diabetes mellitus. Bressler R, et al. **Arch Intern Med** 1997 Apr 28;157(8):836–48 (234 ref.)

Brain-derived neurotrophic factor reduces blood glucose level in obese diabetic mice but not in normal mice. Ono M, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):633–7

Hypoglycemic and aldose reductase activity of Polichia campestris. Miura T, et al. **Biol Pharm Bull** 1996 Jun; 19(6):852–4

Effect of chromium nicotinic acid supplementation on selected cardiovascular disease risk factors. Thomas VL, et al. **Biol Trace Elem Res** 1996 Dec;55(3):297–305

Concentration-effect relations of glibenclamide and its active metabolites in man: modelling of pharmacokinetics and pharmacodynamics. Rydberg T, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):373–81

Effects of the beta 3-adrenoceptor agonist BRL 37344 on lipomobilization and plasma glucose levels in conscious fasted rabbits. Reverte M, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):251–6

Effects of low and high dose administration of bis(maltolato)oxovanadium(IV) on fa/fa Zucker rats. Yuen VG, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1001–9

Effects of B1 and B2 kinin receptor antagonists in diabetic mice. Zuccollo A, et al. **Can J Physiol Pharmacol** 1996 May;74(5):586–9

Long-term effects of high calorie sucrose-enriched diet and streptozotocin-induced diabetes on insulin resistance in spontaneously hypertensive rats. Sato T, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):669–74

Acarbose: a review of US clinical experience. Coniff R, et al. **Clin Ther** 1997 Jan–Feb;19(1):16–26; discussion 2–3 (17 ref.)

Alcohol & diabetes. Swade TF, et al. **Compr Ther** 1997 Feb; 23(2):135–40 (48 ref.)

Metabolic and calorigenic effects of dopexamine in healthy volunteers. Geisser W, et al. **Crit Care Med** 1997 Aug; 25(8):1332–7

Influence of blood sample oxygen tension on blood glucose concentration measured using an enzyme-electrode method [see comments] Kurahashi K, et al. **Crit Care Med** 1997 Feb;25(2):231–5. Comment in: Crit Care Med 1997 Feb;25(2):212.

Glycemic effect of a single high oral dose of the novel sweetener sucralose in patients with diabetes. Mezitis NH, et al. **Diabetes Care** 1996 Sep;19(9):1004–5

Injection site effects on the pharmacokinetics and glucodynamics of insulin lispro and regular insulin. ter Braak EW, et al. **Diabetes Care** 1996 Dec;19(12):1437–40

Pen injection and change in metabolic control and quality of life in insulin dependent diabetes mellitus. Andersson PO, et al. **Diabetes Res Clin Pract** 1997 Jun;36(3):169–72

Different effect of acute and chronic oral metformin administration on glucose and insulin response to bread and to pasta in non-insulin dependent diabetic patients. Lunetta M, et al. **Diabetes Res Clin Pract** 1996 Jun; 33(1):53–8

Troglitazone, an insulin action enhancer, improves metabolic control in NIDDM patients. Troglitazone Study Group [published erratum appears in Diabetologia 1996 Oct;39(10):1245] Kumar S, et al. **Diabetologia** 1996 Jun; 39(6):701–9

Effect of 1,25-dihydroxycholecalciferol on glucose metabolism in gestational diabetes mellitus. Rudnicki PM, et al. **Diabetologia** 1997 Jan;40(1):40–4

Electronegative low density lipoprotein subform is increased in patients with short-duration IDDM and is closely related to glycaemic control. Sánchez-Quesada JL, et al. **Diabetologia** 1996 Dec;39(12):1469–76

Hypoglycaemic effect of AICAriboside in mice. Vincent MF, et al. **Diabetologia** 1996 Oct;39(10):1148–55

Antazoline increases insulin secretion and improves glucose tolerance in rats and dogs. Berdeu D, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):233–9

Restoration of endothelium-dependent relaxation in both hypercholesterolemia and diabetes by chronic taurine. Kamata K, et al. **Eur J Pharmacol** 1996 May 6; 303(1-2):47–53

Effects of the 5-HT2C/2B receptor agonist 1-(3-chlorophenyl) piperazine on plasma glucose levels of rats. Sugimoto Y, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):75–80

Effects of enalapril, losartan, and verapamil on blood pressure and glucose metabolism in the Cohen-Rosenthal diabetic hypertensive rat. Rosenthal T, et al. **Hypertension** 1997 Jun; 29(6):1260–4

Deterioration of carbohydrate metabolism by nifedipine. Gupta N, et al. **Indian J Med Sci** 1996 Jun;50(6):201–3

The effects of antihypertensive combination therapy on lipid and glucose metabolism: hydrochlorothiazide plus sotalol vs. hydrochlorothiazide plus captopril. Middeke M, et al. **Int J Clin Pharmacol Ther** 1997 Jun;35(6):231–4

The effect of preexercise carbohydrate status on resistance exercise performance. Mitchell JB, et al. **Int J Sport Nutr** 1997 Sep;7(3):185–96

Effect of a reduced-fat diet with or without pravastatin on glucose tolerance and insulin sensitivity in patients with primary hypercholesterolemia. Galvan AQ, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):595–602

Effects of three Mexican medicinal plants (Asteraceae) on blood glucose levels in healthy mice and rabbits. Alarcon-Aguilar FJ, et al. **J Ethnopharmacol** 1997 Feb; 55(3):171–7

Protection by epicoprostanol against hyperglycemia and insulitis in normal and diabetic rats. Taha SA, et al. **J Ethnopharmacol** 1996 Feb;50(2):85–90

Severe insulin resistance treated with insulin lispro [letter] [see comments] Henrichs HR, et al. **Lancet** 1996 Nov 2; 348(9036):1248. Comment in: Lancet 1997 Jan 18;349(9046):211.

Blood sugar concentrations during ketamine or pentobarbitone anesthesia in rats with or without alpha and beta adrenergic blockade. Reyes Toso CF, et al. **Medicina (B Aires)** 1995;55(4):311–6

Effect of sympathoadrenal blockade on the hyperglycemic action of angiotensin II. Mihessen-Neto I, et al. **Neuropeptides** 1996 Jun;30(3):303–8

Conditioned insulin and blood sugar responses in humans in relation to binge eating. Overduin J, et al. **Physiol Behav** 1997 Apr;61(4):569–75

Central beta-adrenoceptor involvement in neural control of blood glucose in pigeons. Souza WF, et al. **Physiol Behav** 1996 Sep;60(3):889–94

Benefits of lispro insulin: control of postprandial glucose levels is within reach. Bohannon NJ. **Postgrad Med** 1997 Feb;101(2):73–6, 79–80 (25 ref.)

The influence of alanine infusion on glucose production in 'malnourished' African children with falciparum malaria. Dekker E, et al. **QJM** 1997 Jul;90(7):455–60

Oral glucose tolerance test after high-dose i.v. biotin administration in normoglucemic hemodialysis patients. Koutsikos D, et al. **Ren Fail** 1996 Jan;18(1):131–7

Time course and relative dose potency of systemic effects from salmeterol and salbutamol in healthy subjects. Bennett JA, et al. **Thorax** 1997 May;52(5):458–64

[Effect of prolonged intravenous ritodrine tocolysis on diurnal glucose profiles in pregnant women with normal carbohydrate tolerance] Hirai M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jul;48(7):488–94 (Eng. Abstr.) **(Jpn)**

[Comparative effects of captopril and chlorthalidone on glucose tolerance and insulin levels essential hypertensives] Zanella MT, et al. **Arq Bras Cardiol** 1996 Jul;67(1):47–52 (Eng. Abstr.) **(Por)**

GENETICS

Evidence for linkage of regions on chromosomes 6 and 11 to plasma glucose concentrations in Mexican Americans. Stern MP, et al. **Genome Res** 1996 Aug;6(8):724–34

METABOLISM

The effect of somatostatin analogue on glucose homeostasis in conscious dogs. Nakanishi I, et al. **Acta Med Okayama** 1997 Feb;51(1):1–7

PET-study of intracranial meningiomas: correlation with histopathology, cellularity and proliferation rate. Lippitz B, et al. **Acta Neurochir Suppl (Wien)** 1996;65:108–11

Effect of LINAC radiosurgery on regional cerebral blood flow, glucose metabolism and sodium-potassium AtPase in skull base meningiomas and metastasis. Warnke PC, et al. **Acta Neurochir Suppl (Wien)** 1997;68:124–6

Brain energy metabolism in the acute stage of experimental subarachnoid haemorrhage: local changes in cerebral glucose utilization. d'Avella D, et al. **Acta Neurochir (Wien)** 1996;138(6):737–43; discussion 744

Basal ganglia and thalamo-cortical hypermetabolism in patients with spasmodic torticollis. Galardi G, et al. **Acta Neurol Scand** 1996 Sep;94(3):172–6

Correlation of lens thickness with blood glucose control in diabetes mellitus. Pierro L, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):539–41

Perchlorate is hypoglycaemic by amplifying glucose-stimulated insulin secretion in mice. Larsson-Nyrén G. **Acta Physiol Scand** 1996 Sep; 158(1):71–6

Effects of handling and physical restraint on rectal temperature, cortisol, glucose and leucocyte counts in the silver fox (Vulpes vulpes). Moe RO, et al. **Acta Vet Scand** 1997;38(1):29–39

First experiments in taurine administration for diabetes mellitus. The effect on erythrocyte membranes. Elizarova EP, et al. **Adv Exp Med Biol** 1996;403:583–8

Effects of caloric restriction and source of dietary carbohydrate on glycemic status of the Fischer 344 rat. Ruhe RC, et al. **Aging (Milano)** 1996 Aug;8(4):287–91

Clinical positron emission tomography for brain tumors: comparison of fludeoxyglucose F 18 and L-methyl-11C-methionine. Ogawa T, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):345–53

Effects of disulfiram on positron emission tomography and neuropsychological studies in severe chronic alcoholism. Gilman S, et al. **Alcohol Clin Exp Res** 1996 Nov; 20(8):1456–61

Chronic ethanol feeding impairs glucose tolerance but does not produce skeletal muscle insulin resistance in rat epitrochlearis muscle. Wilkes JJ, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):1016–22

Acute ethanol effects on focal cerebral ischemia in nonfasted rats. Zhao YJ, et al. **Alcohol Clin Exp Res** 1997 Jun; 21(4):745–8

How the degree of unsaturation of dietary fatty acids influences the glucose and insulin responses to different carbohydrates in mixed meals. Joannic JL, et al. **Am J Clin Nutr** 1997 May;65(5):1427–33

Delayed gastric emptying rate as a potential mechanism for lowered glycemia after eating sourdough bread: studies in humans and rats using test products with added organic acids or an organic salt. Liljeberg HG, et al. **Am J Clin Nutr** 1996 Dec;64(6):886–93

Plasma glucose turnover and oxidation during hemodialysis: nutritional effect of dialysis fluid. Skutches CL, et al. **Am J Clin Nutr** 1997 Jan;65(1):128–35

Abnormal characteristics in young offspring of parents with non-insulin-dependent diabetes mellitus. The Bogalusa Heart Study. Berenson GS, et al. **Am J Epidemiol** 1996 Nov 15;144(10):962–7

Metabolic effects of long-term treatments with nifedipine-retard and captopril in young hypertensive patients. Masuo K, et al. **Am J Hypertens** 1997 Jun; 10(6):600–10

Human placental glucose uptake and transport are not altered by the oral antihyperglycemic agent metformin. Elliott BD, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):527–30

Effect of low-level basal plus marked "pulsatile" hyperglycemia on insulin secretion in fetal sheep. Carver TD, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E865–71

Role of the kidney in plasma glucose regulation during hyperglycemia. Cersosimo E, et al. **Am J Physiol** 1997 May; 272(5 Pt 1):E756–61

NONMEM improves group parameter estimation for the minimal model of glucose kinetics. De Gaetano A, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E932–7

Physiological changes in circulating glucagon alter hepatic glucose disposition during portal glucose delivery. Holste LC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E488–96

Constant infusion and bolus injection of stable-label tracer give reproducible and comparable fasting HGO. Hovorka R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E192–201

Central interleukin-1 partially mediates endotoxin-induced changes in glucose metabolism. Lang CH, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E309–16

Effect of short-term propionate infusion on feed intake and blood parameters in sheep. Leuvenink HG, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E997–1001

Insulin-like growth factor-I action on glucose transport in acute renal failure. Mak RH, et al. **Am J Physiol** 1996 Aug; 271(2 Pt 2):F440–5

Effect of amino acid and glucose administration during postexercise recovery on protein kinetics in dogs. Okamura K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E1023–30

Reduced insulin suppression of glucose appearance is related to susceptibility to dietary obesity in rats. Pagliassotti MJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1264–70

Effects of morning cortisol elevation on insulin secretion and

glucose regulation in humans. Plat L, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E36–42

Plasma leptin responses to fasting in Pima Indians. Pratley RE, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E644–9

Relationships between sleep quality and glucose regulation in normal humans. Scheen AJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E261–70

Extracellular glucose distribution is not altered by insulin: analysis of plasma and interstitial L-glucose kinetics. Steil GM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E855–64

Alterations of plasma lactate and glucose metabolism in obese children. Stunff CL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E814–20

Differential regulation of glycogen synthase by insulin and glucose in vivo in skeletal muscles of the rat. Sugden MC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E479–87

Resynthesis of glycogen in skeletal muscle from standardbred trotters after repeated bouts of exercise. Hyyppä S, et al. **Am J Vet Res** 1997 Feb;58(2):162–6

Inter- and intraindividual variability of the response to intravenous glucose tolerance testing in cats. Sparkes AH, et al. **Am J Vet Res** 1996 Sep;57(9):1294–8

Effects of blood glucose changes and physostigmine on anesthetic requirements of halothane in rats. Ishizawa Y, et al. **Anesthesiology** 1997 Aug;87(2):354–60

The entero-insular axis in polycystic ovarian syndrome. Gama R, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):190–5

An unusual cause of hyperglycorrhachia. Katz I, et al. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):84–5

Blood sugar, disease, and nondisease [editorial] Davidoff F. **Ann Intern Med** 1997 Aug 1;127(3):235–7

On the effects of glucagon-like peptide-1 on blood glucose regulation in normal and diabetic subjects. Holst JJ, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:729–36 (54 ref.)

Effects of arsenic (V)-chromium (III) interaction on plasma glucose and cholesterol levels in growing rats. Aguilar MV, et al. **Ann Nutr Metab** 1997;41(3):189–95

Comparison of the effects of two weeks' intervention with different meal frequencies on glucose metabolism, insulin sensitivity and lipid levels in non-insulin-dependent diabetic patients. Thomsen C, et al. **Ann Nutr Metab** 1997; 41(3):173–80

Is there a glycemic threshold? [editorial; comment] Haffner SM. **Arch Intern Med** 1997 Sep 8;157(16):1791. Comment on: Arch Intern Med 1997 Sep 8;157(16):1851–6.

Glycemic control and sliding scale insulin use in medical inpatients with diabetes mellitus [see comments] Queale WS, et al. **Arch Intern Med** 1997 Mar 10;157(5):545–52. Comment in: Arch Intern Med 1997 Mar 10;157(5):589. Comment in: Arch Intern Med 1997 Aug 11–25;157(15):1776.

Action without benefit. The sliding scale of insulin use [editorial; comment] Sawin CT. **Arch Intern Med** 1997 Mar 10;157(5):489. Comment on: Arch Intern Med 1997 Mar 10;157(5):545–52.

Metabolic basis of hypotriglyceridemic effects of insulin in normal men. Malmström R, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1454–64

The metabolic profile of glucose tolerant women who have had large for gestational age babies. Moses R, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):177–80

Modulation of insulin secretion and glycemia by selective inhibition of cyclic AMP phosphodiesterase III. Parker JC, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):665–9

Effect of triiodothyronine on muscle cell differentiation and blood glucose level in hyperglycemic KK mice. Shimokawa T, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):790–3

Reduction by streptozocin of blood glucose utilization during the appearance of the streptozocin induced early hyperglycaemia in fasting rats. Wong KK. **Biochem Mol Biol Int** 1996 May;39(1):191–5

Effects of altered glucokinase gene copy number on blood glucose homoeostasis. Niswender KD, et al. **Biochem Soc Trans** 1997 Feb;25(1):113–7 (34 ref.)

Brain stem auditory-evoked response in relation to neonatal glucose metabolism. Cowett RM, et al. **Biol Neonate** 1997; 71(1):31–6

Docosahexanoic acid (DHA) improved glucose and lipid metabolism in KK-Ay mice with genetic non-insulin-dependent diabetes mellitus (NIDDM). Shimura T, et al. **Biol Pharm Bull** 1997 May;20(5):507–10

The effects of peripheral serotonin2 (5-HT2) and serotonin3 (5-HT3) receptor agonists on blood glucose levels in rats. Sugimoto Y, et al. **Biol Pharm Bull** 1996 Oct;19(10):1384–6

Effect of sertraline on regional metabolic rate in patients with affective disorder. Buchsbaum MS, et al. **Biol Psychiatry** 1997 Jan 1;41(1):15–22

Brain hypometabolism of glucose in anorexia nervosa: normalization after weight gain. Delvenne V, et al. **Biol Psychiatry** 1996 Oct 15;40(8):761–8

Brain metabolism patterns are sensitive to attentional effort associated with a tone recognition task. Holcomb HH, et al. **Biol Psychiatry** 1996 Jun 15;39(12):1013–22

Hypoglycemic effect of copper(II) acetate imidazole complexes. Abdul-Ghani AS, et al. **Biol Trace Elem Res** 1996 Aug;54(2):143–51

Improvement of glucose tolerance with immunomodulators on type 2 diabetic animals. Zhu XP, et al. **Biotherapy** 1996; 9(4):189–97

Blood pressure and urinary C-peptide excretion in subjects with varying degrees of glucose tolerance. Miura K, et al. **Blood Press** 1996 May;5(3):148–53

Impaired glucose tolerance at five-year follow-up of young men with borderline hypertension. Wall U, et al. **Blood Press** 1996 May;5(3):139–47

Antimalarial drugs and glucose metabolism. Davis TM. **Br J Clin Pharmacol** 1997 Jul;44(1):1–7 (45 ref.)

Miglitol (Bay m 1099) has no extraintestinal effects on glucose control in healthy volunteers. Sels JP, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):503–6

The acute impact of ethanol on glucose, insulin, triacylglycerol,and free fatty acid responses and insulin sensitivity in type 2 diabetes. Christiansen C, et al. **Br J Nutr** 1996 Nov;76(5):669–75

Diurnal trends in responses of blood plasma concentrations of glucose, insulin, and C-peptide following high- and low-fat meals and their relation to fat metabolism in healthy middle-aged volunteers. Frape DL, et al. **Br J Nutr** 1997 Apr;77(4):523–35

Carbohydrate tolerance and food frequency. Jenkins DJ. **Br J Nutr** 1997 Apr;77 Suppl 1:S71–81 (42 ref.)

Effect of chronic inhibition of nitric oxide synthase on ocular blood flow and glucose metabolism in the rat. O'Brien C, et al. **Br J Ophthalmol** 1997 Jan;81(1):68–71

Antihyperglycaemic effect of saccharin in diabetic ob/ob mice. Bailey CJ, et al. **Br J Pharmacol** 1997 Jan;120(1):74–8

Limbic dysfunction in schizophrenia and mania. A study using 18F-labelled fluorodeoxyglucose and positron emission tomography. al-Mousawi AH, et al. **Br J Psychiatry** 1996 Oct;169(4):509–16

Complete prevention of impaired anastomotic healing in diabetic rats requires preoperative blood glucose control. Verhofstad MH, et al. **Br J Surg** 1996 Dec;83(12):1717–21

Dexamethasone-induced alterations in glucose tolerance and, insulin, glucagon and adrenaline responses during the first month in White Leghorn chicks. Joseph J, et al. **Br Poult Sci** 1996 Jul;37(3):665–76

Changes in labile energy metabolites, redox state and intracellular pH in postischemic brain of normo- and hyperglycemic rats. Katsura K, et al. **Brain Res** 1996 Jul 8;726(1-2):57–63

Immobilization stress-induced increase of hippocampal acetylcholine and of plasma epinephrine, norepinephrine and glucose in rats. Tajima T, et al. **Brain Res** 1996 May 13;720(1-2):155–8

Effect of chemical stimulation of the dorsomedial hypothalamic nucleus on blood plasma glucose, triglycerides and free fatty acids in rats. Zaia CT, et al. **Brain Res Bull** 1997;42(3):195–8

Cadmium and naphthalene-induced hyperglycemia in the fiddler crab, Uca pugilator: differential modes of action on the neuroendocrine system. Reddy PS, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):425–31

Aging exaggerates the blood glucose response to total parenteral nutrition. Watters JM, et al. **Can J Surg** 1996 Dec;39(6):481–5

Insulin treatment can abolish changes in glucose and glutamine metabolism of lymphocytes and macrophages caused by the implantation of the Walker 256 tumour. Fernandes LC, et al. **Cell Biochem Funct** 1996 Sep; 14(3):187–92

Insulin secretion and glucose tolerance after islet transplantation in rats with noninsulin-dependent diabetes induced by neonatal streptozotocin. Tormo MA, et al. **Cell Transplant** 1997 Jan-Feb;6(1):23–32

Glucose metabolism and protective biochemical mechanisms in a rat brain affected by kaolin-induced hydrocephalus. Hidaka M, et al. **Childs Nerv Syst** 1997 Apr;13(4):183–8

Evaluation of glucose metabolic disorder: insulin resistance and insulin receptors in critically ill children. Xu F, et al. **Chin Med J (Engl)** 1996 Oct;109(10):807–9

The dosing-time dependent influence of chronic cyclosporin A treatment on daily profiles of plasma glucose and insulin in the Wistar rat. Malmary MF, et al. **Chronobiol Int** 1997 May;14(3):275–85

Day-night differences in the kinetics and dynamics of insulin: diabetic versus normal Yucatan minipigs. Wang PR, et al. **Chronobiol Int** 1996 Aug;13(3):213–25

High glucose increases nitric oxide synthase expression and superoxide anion generation in human aortic endothelial cells. Cosentino F, et al. **Circulation** 1997 Jul 1;96(1):25–8

Overnight metabolic fuel deficiency in patients treated conventionally for hypopituitarism. Al-Shoumer KA, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):171–8

Improving effect of carteolol on bodyweight and carbohydrate and lipid metabolic responses in the OLETF rat. Saitoh Y, et al. **Clin Exp Pharmacol Physiol** 1997 May; 24(5):321–5

Factors affecting glucose tolerance in hereditary hemochromatosis. Hramiak IM, et al. **Clin Invest Med** 1997 Apr;20(2):110–8

Effects of infused glucose on glycogen metabolism in healthy humans. Tounian P, et al. **Clin Physiol** 1996 Jul; 16(4):403–16

Ventricular repolarization is correlated with metabolic control in newly diagnosed type 2 diabetes. Vanninen E, et al. **Clin Physiol** 1996 Jul;16(4):449–61

Site of insulin resistance after surgery: the contribution of hypocaloric nutrition and bed rest. Nygren J, et al. **Clin Sci (Colch)** 1997 Aug;93(2):137–46

Comparative aspects of glucose tolerance in camels, sheep, and ponies. Elmahdi B, et al. **Comp Biochem Physiol A Physiol** 1997 Sep;118(1):147–51

Regulation of substances in allantoic and amniotic fluid of the chicken embryo. ten Busch M, et al. **Comp Biochem Physiol A Physiol** 1997 Feb;116(2):131–6

Analysing the hypoglycaemic counter-regulation: a clinically relevant phenomenon? Hejlesen OK, et al. **Comput Methods Programs Biomed** 1996 Aug;50(3):231–40

Comparative clinical evaluation of the effect on carbohydrate and lipid metabolism of two norethisterone-containing hormonal contraceptives: Mesigyna and TriNovum. Benagiano G, et al. **Contraception** 1997 May;55(5):295–300

Response of apolipoprotein AIV and lipoproteins to glycaemic control in young people with insulin-dependent diabetes mellitus. Attia N, et al. **Diabet Med** 1997 Mar; 14(3):242–7

In vivo glucose metabolism, insulin secretion and, insulin action in Europids with non-insulin-dependent diabetes mellitus (NIDDM) and their first-degree relatives. Beck-Nielsen H, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S78–84 (17 ref.)

Insulin requirements and metabolic control in children with diabetes mellitus attending a summer camp. Braatvedt GD, et al. **Diabet Med** 1997 Mar;14(3):258–61

The glucose challenge test: different drink dilutions [letter] Davey R. **Diabet Med** 1996 Oct;13(10):917–8

Hyperleptinaemia: the missing link in the, metabolic syndrome? de Courten M, et al. **Diabet Med** 1997 Mar; 14(3):200–8

Peripheral somatic nerve function in relation to glucose tolerance in an elderly Caucasian population: the Hoorn study. de Neeling JN, et al. **Diabet Med** 1996 Nov; 13(11):960–6

Effects of troglitazone on insulin sensitivity. Henry RR. **Diabet Med** 1996 Sep;13(9 Suppl 6):S148–50 (9 ref.)

A higher proinsulin response to glucose loading predicts deteriorating fasting plasma glucose and worsening to diabetes in subjects with impaired glucose tolerance [published erratum appears in Diabet Med 1996 Aug;13(8):775] Inoue I, et al. **Diabet Med** 1996 Apr; 13(4):330–6

Counterregulatory hormone responses and symptoms during hypoglycaemia induced by porcine, human regular insulin, and Lys(B28), Pro(B29) human insulin analogue (insulin Lispro) in healthy male volunteers. Jacobs MA, et al. **Diabet Med** 1997 Mar;14(3):248–57

Macrosomia and poor glycaemic control in diabetic pregnancy [letter; comment] Joseph SE. **Diabet Med** 1996 Dec;13(12):1072. Comment on: Diabet Med 1996 Feb;13(2):170–4.

Proinsulin levels predict the development of non-insulin-dependent diabetes mellitus (NIDDM) in Japanese-American men. Kahn SE, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S63–6

Insulin response to oral glucose load is consistently decreased in established non-insulin-dependent diabetes mellitus: the usefulness of decreased early insulin response as a predictor of non-insulin-dependent diabetes mellitus. Kosaka K, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S109–19

Effect of aprotinin on insulin sensitivity in non-insulin-dependent diabetes mellitus. Laurenti O, et al. **Diabet Med** 1996 Jul;13(7):642–5

Impaired glucose tolerance in Pima Indians. Lillioja S. **Diabet Med** 1996 Sep;13(9 Suppl 6):S127–32 (15 ref.)

Self-reported changes in capillary glucose and insulin requirements during the menstrual cycle. Lunt H, et al. **Diabet Med** 1996 Jun;13(6):525–30

Usefulness of the hemocue blood glucose photometer in hypoglycaemic conditions [letter] M'Bemba J, et al. **Diabet Med** 1997 Aug;14(8):711

The prevalence of low insulin responders to oral glucose load among groups with various patterns of family history of diabetes. Matsuda A, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S59–62

Relationships between plasma leptin and insulin concentrations, but not insulin resistance, in non-insulin-dependent (type 2) diabetes mellitus. Mohamed-Ali V, et al. **Diabet Med** 1997 May;14(5):376–80

Glycated proteins as indices of glycaemic control in diabetic patients with chronic renal failure. Morgan L, et al. **Diabet Med** 1996 Jun;13(6):514–9

Modulation of gastric emptying as a therapeutic approach to glycaemic control. Moyses C, et al. **Diabet Med** 1996 Sep;13(9 Suppl 5):S34–8 (19 ref.)

The diagnosis of "pathological hyperglycaemia' in gestational diabetes in a high risk obstetric population. Nasrat HA, et al. **Diabet Med** 1996 Oct;13(10):861–7

Effects of C-peptide on insulin-induced hypoglycaemia and its counterregulatory responses in IDDM patients. Oskarsson P, et al. **Diabet Med** 1997 Aug;14(8):655–9

Insulin secretion and sensitivity in newly diagnosed NIDDM Caucasians in the UK. Owens DR, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S19–24

Fetal growth and insulin resistance in adult life: relationship between glycogen synthase activity in adult skeletal muscle and birthweight. Phillips DI, et al. **Diabet Med** 1996 Apr; 13(4):325–9

Insulin secretion and insulin sensitivity in people with impaired glucose tolerance. Pimenta W, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S33–6

The role of splanchnic glucose appearance in determining carbohydrate tolerance. Rizza R. **Diabet Med** 1996 Sep;13(9 Suppl 5):S23–7 (13 ref.)

Physical activity and glycaemic control in children with diabetes mellitus. Sackey AH, et al. **Diabet Med** 1996 Sep; 13(9):789–93

Gastric emptying in type 2 diabetes: quick or slow? Smith U. **Diabet Med** 1996 Sep;13(9 Suppl 5):S31–3 (22 ref.)

Effect of glycaemic control and the introduction of insulin therapy on retinopathy in non–insulin–dependent diabetes mellitus [letter] Stratton IM, et al. **Diabet Med** 1997 Aug; 14(8):709–10

Nocturnal blood glucose profiles in patients with type 1 diabetes mellitus on multiple (> or = 4) daily insulin injection regimens. Vervoort G, et al. **Diabet Med** 1996 Sep;13(9):794–9

Natural history of impaired glucose tolerance: follow–up at Joslin Clinic. Warram JH, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S40–5

Epinephrine exerts opposite effects on peripheral glucose disposal and glucose–stimulated insulin secretion. A stable label intravenous glucose tolerance test minimal model study. Avogaro A, et al. **Diabetes** 1996 Oct;45(10):1373–8

Impaired basal glucose effectiveness in NIDDM: contribution of defects in glucose disappearance and production, measured using an optimized minimal model independent protocol. Basu A, et al. **Diabetes** 1997 Mar;46(3):421–32

rhIGF–I administration reduces insulin requirements, decreases growth hormone secretion, and improves the lipid profile in adults with IDDM. Carroll PV, et al. **Diabetes** 1997 Sep;46(9):1453–8

Insulin levels and the natural history of glucose intolerance in Nauruans. Dowse GK, et al. **Diabetes** 1996 Oct; 45(10):1367–72

Cardiac and glycemic benefits of troglitazone treatment in NIDDM. The Troglitazone Study Group. Ghazzi MN, et al. **Diabetes** 1997 Mar;46(3):433–9

Nicotinamide's effects on glucose metabolism in subjects at risk for IDDM. Greenbaum CJ, et al. **Diabetes** 1996 Nov; 45(11):1631–4

Metabolic consequences of a family history of NIDDM (the Botnia study): evidence for sex–specific parental effects. Groop L, et al. **Diabetes** 1996 Nov;45(11):1585–93

The defective glucagon response from transplanted intrahepatic pancreatic islets during hypoglycemia is transplantation site–determined. Gupta V, et al. **Diabetes** 1997 Jan;46(1):28–33

Insulin sensitivity and acute insulin response in African–Americans, non–Hispanic whites, and Hispanics with NIDDM: the Insulin Resistance Atherosclerosis Study. Haffner SM, et al. **Diabetes** 1997 Jan;46(1):63–9

Amino acid polymorphisms in the ATP–regulatable inward rectifier Kir6.2 and their relationships to glucose– and tolbutamide–induced insulin secretion, the insulin sensitivity index, and NIDDM. Hansen L, et al. **Diabetes** 1997 Mar;46(3):508–12

Identification of a common amino acid polymorphism in the p85alpha regulatory subunit of phosphatidylinositol 3–kinase: effects on glucose disappearance constant, glucose effectiveness, and the insulin sensitivity index. Hansen T, et al. **Diabetes** 1997 Mar;46(3):494–501

Blood glucose control and microvascular and macrovascular complications in diabetes. Hanssen KF. **Diabetes** 1997 Sep; 46 Suppl 2:S101–3

Expression of human hepatic glucokinase in transgenic mice liver results in decreased glucose levels and reduced body weight. Hariharan N, et al. **Diabetes** 1997 Jan;46(1):11–6

Increased hexosamine availability similarly impairs the action of insulin and IGF–1 on glucose disposal. Hawkins M, et al. **Diabetes** 1996 Dec;45(12):1734–43

Effects of free fatty acids and glucose on splanchnic insulin dynamics. Hennes MM, et al. **Diabetes** 1997 Jan;46(1):57–62

Insulin sensitivity and abdominal obesity in African–American, Hispanic, and non–Hispanic white men and women. The Insulin Resistance and Atherosclerosis Study. Karter AJ, et al. **Diabetes** 1996 Nov;45(11):1547–55

Pancreas transplantation restores epinephrine response and symptom recognition during hypoglycemia in patients with long–standing type I diabetes and autonomic neuropathy. Kendall DM, et al. **Diabetes** 1997 Feb;46(2):249–57

Long–term metabolic control by rat islet grafts depends on the composition of the implant. Keymeulen B, et al. **Diabetes** 1996 Dec;45(12):1814–21

Plasma leptin levels correlate to islet function independently of body fat in postmenopausal women. Larsson H, et al. **Diabetes** 1996 Nov;45(11):1580–4

Counterregulation in peripheral tissues: effect of systemic hypoglycemia on levels of substrates and catecholamines in human skeletal muscle and adipose tissue. Maggs DG, et al. **Diabetes** 1997 Jan;46(1):70–6

Normalization of insulin responses to glucose by overnight infusion of glucagon–like peptide 1 (7–36) amide in patients with NIDDM. Rachman J, et al. **Diabetes** 1996 Nov; 45(11):1524–30

Effect of granulocyte–colony stimulating factor on generation of oxygen–derived free radicals and myeloperoxidase activity in neutrophils from poorly controlled NIDDM patients. Sato N, et al. **Diabetes** 1997 Jan;46(1):133–7

A comparison of the effects of selective increases in peripheral or portal insulin on hepatic glucose production in the conscious dog. Sindelar DK, et al. **Diabetes** 1996 Nov;45(11):1594–604

Effects of pramlintide, an analog of human amylin, on plasma glucose profiles in patients with IDDM: results of a multicenter trial. Thompson RG, et al. **Diabetes** 1997 Apr; 46(4):632–6

Supraphysiological hyperinsulinemia increases plasma leptin concentrations after 4 h in normal subjects. Utriainen T, et al. **Diabetes** 1996 Oct;45(10):1364–6

Insulin lispro in CSII: results of a double–blind crossover study [published erratum appears in Diabetes 1997 Jul;46(7):1239] Zinman B, et al. **Diabetes** 1997 Mar; 46(3):440–3

Mixing insulin lispro and ultralente insulin [letter; comment] Bastyr EJ 3rd, et al. **Diabetes Care** 1997 Jun;20(6):1047–8 . Comment on: Diabetes Care 1996 Sep;19(9):945–52.

Role of glucose effectiveness in the determination of glucose tolerance. Best JD, et al. **Diabetes Care** 1996 Sep; 19(9):1018–30 (102 ref.)

The effect of acarbose on insulin sensitivity in subjects with impaired glucose tolerance. Chiasson JL, et al. **Diabetes Care** 1996 Nov;19(11):1190–3

Intake of a diet high in trans monounsaturated fatty acids or saturated fatty acids. Effects on postprandial insulinemia and glycemia in obese patients with NIDDM. Christiansen E, et al. **Diabetes Care** 1997 May;20(5):881–7

Bromocriptine (Ergoset) reduces body weight and improves glucose tolerance in obese subjects. Cincotta AH, et al. **Diabetes Care** 1996 Jun;19(6):667–70

Much ado about (almost) nothing [editorial; comment] Coulston AM, et al. **Diabetes Care** 1997 Mar;20(3):241–3 . Comment on: Diabetes Care 1997 Mar;20(3):452–6.

Glucagonostatic actions and reduction of fasting hyperglycemia by exogenous glucagon–like peptide I(7–36) amide in type I diabetic patients. Creutzfeldt WO, et al. **Diabetes Care** 1996 Jun;19(6):580–6

Insulin antibodies do not preclude optimization of metabolic control in women with IDDM during pregnancy. Dozio N, et al. **Diabetes Care** 1996 Sep;19(9):979–82

Model of complications of NIDDM. II. Analysis of the health benefits and cost–effectiveness of treating NIDDM with the goal of normoglycemia [see comments] Eastman RC, et al. **Diabetes Care** 1997 May;20(5):735–44. Comment in: Diabetes Care 1997 May;20(5):685–6.

Strategies toward improved control during insulin lispro therapy in IDDM. Importance of basal insulin. Ebeling P, et al. **Diabetes Care** 1997 Aug;20(8):1287–9

Effect of maternal diabetes on the pattern of selected insulin resistance syndrome parameters in normal glucose tolerant subjects of two Algonquin Indian communities in Quebec. Ekoé JM, et al. **Diabetes Care** 1996 Aug;19(8):822–6

Evaluations of retinopathy in the VA Cooperative Study on Glycemic Control and Complications in Type II Diabetes (VA CSDM). A feasibility study. Emanuele N, et al. **Diabetes Care** 1996 Dec;19(12):1375–81

Metformin's effects on glucose and lipid metabolism in patients with secondary failure to sulfonylureas. Fanghänel G, et al. **Diabetes Care** 1996 Nov;19(11):1185–9

A trial of cognitive analytic therapy in poorly controlled type I patients. Fosbury JA, et al. **Diabetes Care** 1997 Jun; 20(6):959–64

Sex hormone–binding globulin and glucose tolerance in postmenopausal women. The Rancho Bernardo Study. Goodman–Gruen D, et al. **Diabetes Care** 1997 Apr; 20(4):645–9

Potential therapeutic levels of glucagon–like peptide I achieved in humans by a buccal tablet. Gutniak MK, et al. **Diabetes Care** 1996 Aug;19(8):843–8

An importance of carbohydrate ingestion for the expression of the effect of alpha–glucosidase inhibitor in NIDDM. Hara T, et al. **Diabetes Care** 1996 Jun;19(6):642–7

Does suppression of postprandial blood glucose excursions by the alpha–glucosidase inhibitor miglitol improve insulin sensitivity in diet–treated type II diabetic patients? Johnson AB, et al. **Diabetes Care** 1996 Jun;19(6):559–63

Gastric myoelectrical activity in patients with diabetes. Role of glucose control and autonomic nerve function. Kawagishi T, et al. **Diabetes Care** 1997 May;20(5):848–54

Acute effects of intraperitoneal versus subcutaneous insulin delivery on glucose homeostasis in patients with NIDDM. Veterans Affairs Implantable Insulin Pump Study Group. Kelley DE, et al. **Diabetes Care** 1996 Nov;19(11):1237–42

Androgen activity as a risk factor for impaired glucose tolerance in postmenopausal women. Larsson H, et al. **Diabetes Care** 1996 Dec;19(12):1399–403

Seven–year changes in body fat and visceral adipose tissue in women. Association with indexes of plasma glucose–insulin homeostasis. Lemieux S, et al. **Diabetes Care** 1996 Sep;19(9):983–91

Effect of long–term glycemic control on cognitive function. Lincoln NB, et al. **Diabetes Care** 1996 Jun;19(6):656–8

Metabolic effects of dietary sucrose and fructose in type II diabetic subjects. Malerbi DA, et al. **Diabetes Care** 1996 Nov;19(11):1249–56

Comparison of metabolic control in a cross–sectional study of 2,873 children and adolescents with IDDM from 18 countries. The Hvidøre Study Group on Childhood Diabetes. Mortensen HB, et al. **Diabetes Care** 1997 May; 20(5):714–20

Glycemic control and prevention of retinopathy in Japanese NIDDM patients. A 10–year follow–up study. Nakagami T, et al. **Diabetes Care** 199/ Apr;20(4):621–2

Pathogenetic mechanisms of impaired glucose tolerance and type II diabetes in African–Americans. The significance of insulin secretion, insulin sensitivity, and glucose effectiveness. Osei K, et al. **Diabetes Care** 1997 Mar; 20(3):396–404

Erythrocyte Na(+)–K(+)–ATPase activity, metabolic control, and neuropathy in IDDM patients [published erratum appears in Diabetes Care 1997 Feb;20(2):236] Raccah D, et al. **Diabetes Care** 1996 Jun;19(6):564–8

Glipizide–GITS does not increase the hypoglycemic effect of mild exercise during fasting in NIDDM. Riddle MC, et al. **Diabetes Care** 1997 Jun;20(6):992–4

Deficient counterregulation: a possible risk factor for excessive fetal growth in IDDM pregnancies. Rosenn BM, et al. **Diabetes Care** 1997 May;20(5):872–4

Separate associations between visceral and subcutaneous adipose tissue distribution, insulin and glucose levels in obese women. Ross R, et al. **Diabetes Care** 1996 Dec; 19(12):1404–11

Pubertal growth, sexual maturation, and final height in children with IDDM. Effects of age at onset and metabolic control. Salerno M, et al. **Diabetes Care** 1997 May; 20(5):721–4

Dietary fiber, glycemic load, and risk of NIDDM in men. Salmerón J, et al. **Diabetes Care** 1997 Apr;20(4):545–50

Efficacy, safety, and dose–response characteristics of glipizide gastrointestinal therapeutic system on glycemic control and insulin secretion in NIDDM. Results of two multicenter, randomized, placebo–controlled clinical trials. The Glipizide Gastrointestinal Therapeutic System Study Group. Simonson DC, et al. **Diabetes Care** 1997 Apr; 20(4):597–606

A double–masked placebo–controlled trial assessing effects of various doses of BTS 67,582, a novel insulinotropic agent, on fasting hyperglycemia in NIDDM patients. Skillman CA, et al. **Diabetes Care** 1997 Apr;20(4):591–6

Glycemic responses to exercise in IDDM after simple and complex carbohydrate supplementation. Soo K, et al. **Diabetes Care** 1996 Jun;19(6):575–9

Insulin and cognitive function in an elderly population. The Rotterdam Study. Stolk RP, et al. **Diabetes Care** 1997 May; 20(5):792–5

Effects of the short–acting insulin analog [Lys(B28),Pro(B29)] on postprandial blood glucose control in IDDM [see comments] Torlone E, et al. **Diabetes Care** 1996 Sep;19(9):945–52. Comment in: Diabetes Care 1997 Jun;20(6):1047–8.

Decreased serum 1,5–anhydroglucitol in nondiabetic subjects with a family history of NIDDM. Tsukui S, et al. **Diabetes Care** 1996 Sep;19(9):940–4

Comparison of different insulin regimens in elderly patients with NIDDM. Wolffenbuttel BH, et al. **Diabetes Care** 1996 Dec;19(12):1326–32

Glucose and amino acid turnover in untreated gestational diabetes. Zimmer DM, et al. **Diabetes Care** 1996 Jun; 19(6):591–6

The Glucose Evaluation Trial for Remission (GETREM): A European effort to evaluate insulin–dependent diabetes mellitus in the first year after diagnosis. Baroni M, et al. **Diabetes Metab** 1997 Jun;23(3):264–5

Ketoacidosis at diagnosis is predictive of lower residual beta–cell function and poor metabolic control in type 1 diabetes. Fernandez Castañer M, et al. **Diabetes Metab** 1996 Oct;22(5):349–55

Are the implications of the Diabetes Control and Complications Trial (DCCT) feasible in daily clinical practice? Gautier JF, et al. **Diabetes Metab** 1996 Dec; 22(6):415–9

Effect of metformin on insulin–stimulated tyrosine kinase activity of erythrocytes from obese women with normal glucose tolerance. Santos RF, et al. **Diabetes Metab** 1997 Apr;23(2):143–8

Effects of hyperinsulinaemia and hypoglycaemia on circulating leptin levels in healthy lean males. Schmitz O, et al. **Diabetes Metab** 1997 Feb;23(1):80–3

Recent advances in diabetic nephropathy: how big a culprit is glucose? Striker GE, et al. **Diabetes Metab** 1996 Dec; 22(6):407–14 (37 ref.)

Short–term effects of continuous subcutaneous insulin infusion treatment on insulin secretion in non–insulin–dependent overweight patients with poor glycaemic control despite maximal oral anti–diabetic treatment. Valensi P, et al. **Diabetes Metab** 1997 Feb; 23(1):51–7

Pen injection and change in metabolic control and quality of life in insulin dependent diabetes mellitus. Andersson PO, et al. **Diabetes Res Clin Pract** 1997 Jun;36(3):169–72

Very low calorie diet (VLCD): a useful alternative in the treatment of the obese NIDDM patient. Capstick F, et al. **Diabetes Res Clin Pract** 1997 May;36(2):105–11

Counterregulation by epinephrine and glucagon during insulin–induced hypoglycemia in the conscious dog. Connolly CC, et al. **Diabetes Res Clin Pract** 1996 Mar; 31(1–3):45–56

Meformin, plasma glucose and free fatty acids in type II diabetic out–patients: results of a clinical study. Gregorio F, et al. **Diabetes Res Clin Pract** 1997 Jul;37(1):21–33

Reduced tissue oxygenation and its reversibility by glycemic control in diabetic patients. Iino K, et al. **Diabetes Res Clin Pract** 1997 Jan;34(3):163–8

Prediction of diabetes mellitus (NIDDM). Ito C, et al. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S7–11

Long–term influence of glycaemic control on cardiovascular risk in NIDDM. Laakso M. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S61–5 (19 ref.)

Emotional adjustment and metabolic control in newly

diagnosed diabetic persons. Pibernik-Okanović M, et al. **Diabetes Res Clin Pract** 1996 Oct;34(2):99-105

Relationships of C-peptide levels and the C-peptide/bloodsugar ratio with clinical/biochemical variables associated with insulin resistance in orally-treated, well-controlled type 2 diabetic patients. Relimpio F, et al. **Diabetes Res Clin Pract** 1997 Jun; 36(3):173-80

Predicting long-term glycemic control of post-educational type II diabetic patients by evaluating serum 1,5-anhydroglucitol levels. Sone H, et al. **Diabetes Res Clin Pract** 1996 Oct;34(2):83-8

High glycosylated hemoglobin levels increase the risk of progression to diabetes mellitus in subjects with glucose intolerance. Yoshinaga H, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1-3):71-9

Effects of tungstate in neonatally streptozotocin-induced diabetic rats: mechanism leading to normalization of glycaemia. Barberà A, et al. **Diabetologia** 1997 Feb; 40(2):143-9

Vitamin D, glucose tolerance and insulinaemia in elderly men. Baynes KC, et al. **Diabetologia** 1997 Mar;40(3):344-7

Measurement of glucose metabolism and insulin secretion during normal pregnancy and pregnancy complicated by gestational diabetes. Bowes SB, et al. **Diabetologia** 1996 Aug;39(8):976-83

E-selectin plasma concentration is influenced by glycaemic control in NIDDM patients: possible role of oxidative stress. Cominacini L, et al. **Diabetologia** 1997 May; 40(5):584-9

Studies on the mass action effect of glucose in NIDDM and IDDM: evidence for glucose resistance. Del Prato S, et al. **Diabetologia** 1997 Jun;40(6):687-97

Infusion of pH 2.0 D-chiro-inositol glycan insulin putative mediator normalizes plasma glucose in streptozotocin diabetic rats at a dose equivalent to insulin without inducing hypoglycaemia. Fonteles MC, et al. **Diabetologia** 1996 Jun; 39(6):731-4

PC-1 content in skeletal muscle of non-obese, non-diabetic subjects: relationship to insulin receptor tyrosine kinase and whole body insulin sensitivity. Frittitta L, et al. **Diabetologia** 1996 Oct;39(10):1190-5

Decreased insulin action and insulin secretion predict the development of impaired glucose tolerance. Haffner SM, et al. **Diabetologia** 1996 Oct;39(10):1201-7

The effect of moderate exercise on postprandial glucose homeostasis in NIDDM patients. Larsen JJ, et al. **Diabetologia** 1997 Apr;40(4):447-53

Failure to adequately adapt reduced insulin sensitivity with increased insulin secretion in women with impaired glucose tolerance. Larsson H, et al. **Diabetologia** 1996 Sep; 39(9):1099-107

Prenatal glucocorticoid exposure leads to offspring hyperglycaemia in the rat: studies with the 11 beta-hydroxysteroid dehydrogenase inhibitor carbenoxolone. Lindsay RS, et al. **Diabetologia** 1996 Nov; 39(11):1299-305

Effects of subcutaneous glucagon-like peptide 1 (GLP-1 [7-36 amide]) in patients with NIDDM. Nauck MA, et al. **Diabetologia** 1996 Dec;39(12):1546-53

The set point for maternal glucose homeostasis is lowered during late pregnancy in the rat: the role of the islet beta-cell and liver. Nolan CJ, et al. **Diabetologia** 1996 Jul; 39(7):785-92

Insulin resistance in relatives of NIDDM patients: the role of physical fitness and muscle metabolism. Nyholm B, et al. **Diabetologia** 1996 Jul;39(7):813-22

GLP-1 does not not acutely affect insulin sensitivity in healthy man. Orskov L, et al. **Diabetologia** 1996 Oct; 39(10):1227-32

Near-normalisation of diurnal glucose concentrations by continuous administration of glucagon-like peptide-1 (GLP-1) in subjects with NIDDM. Rachman J, et al. **Diabetologia** 1997 Feb;40(2):205-11

Familial correlations in the Québec family study: cross-trait familial resemblance for body fat with plasma glucose and insulin. Rice T, et al. **Diabetologia** 1996 Nov;39(11):1357-64

The pancreatic beta-cell as a fuel sensor: an electrophysiologist's viewpoint. Rorsman P. **Diabetologia** 1997 May;40(5):487-95 (56 ref.)

Childhood size is more strongly related than size at birth to glucose and insulin levels in 10-11-year-old children. Whincup PH, et al. **Diabetologia** 1997 Mar;40(3):319-26

Insulin resistance in the NIDDM model Psammomys obesus in the normoglycaemic, normoinsulinaemic state. Ziv E, et al. **Diabetologia** 1996 Nov;39(11):1269-75

Stimulative effect of epinephrine on glucose production and utilization rates in sheep using a stable isotope. Sano H, et al. **Domest Anim Endocrinol** 1996 Sep;13(5):445-51

Electrophysiology of retina and optic nerve: effects of changes in serum glucose and of exogenous adenosine in vitro. Niemeyer G, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:141-6 (22 ref.)

The effects of xylazine on plasma concentrations of growth hormone, insulin-like growth factor-I, glucose and insulin in calves. Kasuya E, et al. **Endocr J** 1996 Apr;43(2):145-9

Acetyl-L-carnitine effects on nerve conduction and glycemic regulation in experimental diabetes. Soneru IL, et al. **Endocr Res** 1997 Feb-May;23(1-2):27-36

Feeding-induced stimulation of luteinizing hormone secretion in male rhesus monkeys is not dependent on a rise in blood glucose concentration. Schreihofer DA, et al. **Endocrinology** 1996 Sep;137(9):3770-6

Beta-endorphin infusion alters pancreatic hormone and glucose levels during exercise in rats. Fatouros IG, et al. **Eur J Appl Physiol** 1997;76(3):203-8

Substrate utilisation during exercise and shivering. Tipton MJ, et al. **Eur J Appl Physiol** 1997;76(1):103-8

Metabolic and hormonal responses during repeated bouts of brief and intense exercise: effects of pre-exercise glucose ingestion. Wouassi D, et al. **Eur J Appl Physiol** 1997; 76(3):197-202

Glucose metabolism and catecholamine responses during physical exercise in non-insulin-dependent diabetes. Turgan N, et al. **Eur J Clin Chem Clin Biochem** 1996 Sep; 34(9):683-9

No effect of calcitriol on insulin-mediated glucose uptake in healthy subjects. Fliser D, et al. **Eur J Clin Invest** 1997 Jul;27(7):629-33

Association between eating behaviour and current glycaemic control, body mass or autonomic nervous function in long-term type I and type II diabetic patients. Straub RH, et al. **Eur J Clin Invest** 1996 Jul;26(7):564-8

Interrelationships among postprandial satiety, glucose and insulin responses and changes in subsequent food intake. Holt SH, et al. **Eur J Clin Nutr** 1996 Dec;50(12):788-97

Effect of octreotide on blood glucose and counterregulatory hormones in insulin-dependent diabetic patients: the role of dose and route of administration. Lunetta M, et al. **Eur J Clin Pharmacol** 1996;51(2):139-44

Risk factors for fetal macrosomia: the importance of a positive oral glucose challenge test [see comments] Mello G, et al. **Eur J Endocrinol** 1997 Jul;137(1):27-33. Comment in: Eur J Endocrinol 1997 Jul;137(1):13-4.

Gestational diabetes and preterm labour: is glycaemic control a contributing factor?. Bar-Hava I, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun;73(2):111-4

[18F]-fluorodeoxyglucose-positron emission tomography findings in protein infants with severe periventricular leukomalacia and hypsarrhythmia. Higuchi Y, et al. **Eur J Pediatr** 1997 Mar;156(3):236-8

Blockade of angiotensin converting enzyme but not of angiotensin AT1 receptors improves glucose tolerance. Chow L, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):77-83

Effects of the 5-HT2C/2B receptor agonist 1-(3-chlorophenyl) piperazine on plasma glucose levels of rats. Sugimoto Y, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):75-80

Glucoprivation by insulin leads to trans-synaptic increase in rat adrenal tyrosine hydroxylase mRNA levels. Vietor I, et al. **Eur J Pharmacol** 1996 Oct 10;313(1-2):119-27

Interactions between muscle glycogen and blood glucose during exercise. Hargreaves M. **Exerc Sport Sci Rev** 1997; 25:21-39 (112 ref.)

Relation between stable glycated hemoglobin A1C and plasma glucose levels in diabetes-model mice. Dan K, et al. **Exp Anim** 1997 Apr;46(2):135-40

Complementary insulin therapy improves blood glucose and serum lipid parameters in type 2 (non-insulin-dependent) diabetic patients. I. Effects on blood glucose control. Chlup R, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:70-3

The metabolic syndrome: from inherited survival trait to a health care problem. Colagiuri S, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:54-60 (83 ref.)

Metabolic and endocrine effects of interleukin-1 in obese, diabetic Zucker fa/fa rats. del Rey A, et al. **Exp Clin Endocrinol Diabetes** 1996;104(4):317-26

Salt sensitivity and insulin resistance in normotensives. Gruska S, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:22-6

Semilente-insulin at bedtime is superior to NPH-insulin for the suppression of the dawn-phenomenon in adolescents with type-I-diabetes. Holl RW, et al. **Exp Clin Endocrinol Diabetes** 1996;104(5):360-4

Improvement of insulin-stimulated glucose-disposal in type 2 diabetes after repeated parenteral administration of thioctic acid. Jacob S, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):284-8

Growth hormone does not affect non-insulin-mediated glucose uptake in sheep. Rose MT, et al. **Exp Physiol** 1997 Jul;82(4):749-60

Physiological hyperglycemia slows gastric emptying in normal subjects and patients with insulin-dependent diabetes mellitus. Schvarcz E, et al. **Gastroenterology** 1997 Jul;113(1):60-6

Effect of methadone addiction on glucose metabolism in rats. Sadava D, et al. **Gen Pharmacol** 1997 Jan;28(1):27-9

The effect of anesthesia on intravenous glucose tolerance test in the rat [letter; comment] Leow CK. **Hepatology** 1997 Mar;25(3):782-3. Comment on: Hepatology 1996 Mar;23(3):582-8.

Effects of brain death and glucose infusion on hepatic glycogen and blood hormones in the pig. Roelsgaard K, et al. **Hepatology** 1996 Oct;24(4):871-5

The use of saliva cortisol, urinary cortisol, and catecholamine measurements for a noninvasive assessment of stress responses in dogs. Beerda B, et al. **Horm Behav** 1996 Sep; 30(3):272-9

Mechanisms of the glycaemic effects of sulfonylureas. Ashcroft FM. **Horm Metab Res** 1996 Sep;28(9):456-63 (59 ref.)

Reverse 3,3',5'-triiodothyronine (rT3) enhances hyperglycemic and lipemic effects of heat-stress in chickens. Bobek S, et al. **Horm Metab Res** 1997 May; 29(5):252-4

Blood glucose and plasma dopamine concentrations in ethanol-consuming rats. Fantidis P, et al. **Horm Metab Res** 1996 Mar;28(3):150-1

Effects of insulin-like growth factor I (IGF-I) on the porto-arterial concentration differences of amino acids and glucose: a comparison between oral and intraperitoneal administration in the newborn piglet. Fhölenhog K, et al. **Horm Metab Res** 1996 Nov;28(11):582-7

Repeated administration of growth hormone-releasing hormone with or without previous administration of pyridostigmine in insulin-dependent diabetes mellitus. Martina V, et al. **Horm Metab Res** 1997 Apr;29(4):180-3

Predictors of change in insulin sensitivity during glucocorticoid treatment. Meacham LR, et al. **Horm Metab Res** 1997 Apr;29(4):172-5

Role of growth hormone in glucose counterregulation. Cryer PE. **Horm Res** 1996;46(4-5):192-4 (18 ref.)

Prevalence of lipid and glycaemic abnormalities in hypertensive patients: a retrospective survey [see comments] Joglekar SJ, et al. **Indian Heart J** 1996 Jul-Aug; 48(4):371-4. Comment in: Indian Heart J 1996 Nov-Dec;48(6):739.

Hypoglycemic effect of terfenadine in patients of allergic rhinitis [letter] Chakravarti A, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):191-2

A study on physiological changes in certain psychosomatic disorders with reference to cortisol, blood glucose and lipid profile. Mishra KK, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):151-4

Changes in the initial distribution volume of glucose and plasma volume following volume challenge in dogs. Miyahara A, et al. **Infusionsther Transfusionsmed** 1995 Oct; 22(5):274-9

Hunger sensation in patients with compensated and and uncompensated type 1 and type 2 diabetes mellitus. Cugini P, et al. **Int J Eat Disord** 1996 Jul;20(1):85-98

Glycemic response to malted, popped and roller dried wheat-legume based foods in normal subjects. Sumathi A, et al. **Int J Food Sci Nutr** 1997 Mar;48(2):103-7

Role of plasma insulin concentration in regulating glucose and lipid metabolism in lean and obese Zucker rats. Noshiro O, et al. **Int J Obes Relat Metab Disord** 1997 Feb; 21(2):115-21

Body composition in normal subjects: relation to lipid and glucose variables. Rosenfalck AM, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1006-13

Glycemic and insulinemic responses to multiple preexercise carbohydrate feedings. Short KR, et al. **Int J Sport Nutr** 1997 Jun;7(2):128-37

Association between mild, routine exercise and improved insulin dynamics and glucose control in obese adolescents. Kahle EB, et al. **Int J Sports Med** 1996 Jan;17(1):1-6

Long-term effects in two generations of enriched soybean and olive oil diets on some cardiovascular and biochemical parameters in male rats. Fernández S, et al. **Int J Vitam Nutr Res** 1996;66(4):393-9

The alginate reduce the postprandial glycaemic response by forming a gel with dietary calcium in the stomach of the rat. Ohta A, et al. **Int J Vitam Nutr Res** 1997;67(1):55-61

Transport of glucose across the blood-tissue barriers. Takata K, et al. **Int Rev Cytol** 1997;172:1-53 (320 ref.)

Dose-dependent effect of octreotide on nitrogen retention and glucose homeostasis in response to endotoxemia in parenterally fed rats. Dickerson RN, et al. **J Am Coll Nutr** 1997 Feb;16(1):74-80

High glucose level unmasks a genetic predisposition to enhanced extracellular matrix production in mesangial cells from the Milan normotensive strain. Pugliese G, et al. **J Am Soc Nephrol** 1997 Mar;8(3):406-14

Evolution of metabolic and renal changes in the ZDF/Drt-fa rat model of type II diabetes. Vora JP, et al. **J Am Soc Nephrol** 1996 Jan;7(1):113-7

Genotypic effects on norepinephrine-induced changes in thermogenesis, metabolic hormones, and metabolites in newborn calves. Carstens GE, et al. **J Anim Sci** 1997 Jul; 75(7):1746-55

Effects of an endotoxin challenge on growth performance, carcass accretion rates, and serum hormone and metabolite concentrations in control pigs and those treated with recombinant porcine somatotropin. Evock-Clover CM, et al. **J Anim Sci** 1997 Jul;75(7):1784-90

Ardacin for steers grazing endophyte-free fescue pasture: effects on live weight gain, forage intake, nitrogen and fiber digestion, ruminal fluid kinetics, ruminal fermentation, and serum hormones and metabolites. Judkins MB, et al. **J Anim Sci** 1997 Apr;75(4):1100-11

Glucose kinetics during high-intensity exercise and the crossover concept [letter; comment] Brooks GA, et al. **J Appl Physiol** 1996 Mar;80(3):1073-5. Comment on: J Appl Physiol 1995 Mar;78(3):1203-7.

Utilization of glycogen but not plasma glucose is reduced in individuals with NIDDM during mild-intensity exercise. Colberg SR, et al. **J Appl Physiol** 1996 Nov;81(5):2027-33

CHO feeding before prolonged exercise: effect of glycemic index on muscle glycogenolysis and exercise performance. Febbraio MA, et al. **J Appl Physiol** 1996 Sep;81(3):1115-20

Effect of heat stress on glucose kinetics during exercise. Hargreaves M, et al. **J Appl Physiol** 1996 Oct;81(4):1594-7

Comparison of the metabolic disturbances caused by end-to-side and side-to-side portacaval shunts. Hawkins PA, et al. **J Appl Physiol** 1996 Mar;80(3):885-91

Effects of a single bout of exercise on glucose effectiveness. Higaki Y, et al. **J Appl Physiol** 1996 Mar;80(3):754-9

Preexercise glucose ingestion and glucose kinetics during exercise. Marmy-Conus N, et al. **J Appl Physiol** 1996 Aug; 81(2):853-7

Effect of hypoglycemia on thermoregulatory responses. Passias TC, et al. **J Appl Physiol** 1996 Mar;80(3):1021-32

Lean (underweight) NIDDM - peculiarities and differences in metabolic and hormonal status - a pilot study. Das S, et al. **J Assoc Physicians India** 1995 May;43(5):339-42

Development of atherosclerosis in alloxan diabetic rats. Uchida K, et al. **J Atheroscler Thromb** 1994;1(2):118-28

Serum sialic acid concentration and atherosclerotic risk factors. Wakabayashi I, et al. **J Atheroscler Thromb** 1994; 1(2):113-7

Evidence for sexual differences in the preoptic area regulation of blood glucose in rats. Fóscolo RB, et al. **J Auton Nerv Syst** 1997 May 12;64(1):19-23

Effects of hepatic nerve stimulation on blood glucose and glycogenolysis in rat liver: studies with in vivo microdialysis. Takahashi A, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):181-5

Effects of increased glucokinase gene copy number on glucose homeostasis and hepatic glucose metabolism. Niswender KD, et al. **J Biol Chem** 1997 Sep 5; 272(36):22570-5

Positron emission tomography for quantitative determination of glucose metabolism in normal and ischemic brains in rats: an insoluble problem by the Harderian glands. Kuge Y, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):116-20

Blood glucose concentration does not affect outcome in brain trauma: A 31P MRS study. Vink R, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):50-3

Glucose metabolism in the human cerebellum: anatomical-functional correlations. Shamoto H, et al. **J Child Neurol** 1996 Nov;11(6):451-7

Estrogen replacement therapy decreases hyperandrogenicity and improves glucose homeostasis and plasma lipids in postmenopausal women with noninsulin-dependent diabetes mellitus. Andersson B, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):638-43

Circulating levels of insulin-like growth factor (IGF) binding protein-1 and -3 in aging men: relationships to insulin, glucose, IGF, and dehydroepiandrosterone sulfate levels and anthropometric measures. Benbassat CA, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1484-91

The effect of recombinant human growth hormone on glucose and leucine metabolism in Cushing's syndrome. Bowes SB, et al. **J Clin Endocrinol Metab** 1997 Jan; 82(1):243-6

Effect of tibolone on glucose and lipid metabolism in postmenopausal women. Cagnacci A, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):251-3

Metabolism of oral glucose in pancreas transplant recipients with normal and impaired glucose tolerance. Christiansen E, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2299-307

Normalization of insulin sensitivity and glucose homeostasis in type I diabetic pancreas transplant recipients: a 48-month cross-sectional study--a clinical research center study. Cottrell DA. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3513-9

Glucose homeostasis in children with falciparum malaria: precursor supply limits gluconeogenesis and glucose production. Dekker E, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2514-21

Abnormalities of insulin pulsatility and glucose oscillations during meals in obese noninsulin-dependent diabetic patients: effects of weight reduction. Gumbiner B, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2061-8

Low levels of sex hormone-binding globulin and testosterone are associated with smaller, denser low density lipoprotein in normoglycemic men. Haffner SM, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3697-701

An overnight insulin infusion algorithm provides morning normoglycemia and can be used to predict insulin requirements in noninsulin-dependent diabetes mellitus. Mao CS, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2466-70

Resistance to insulin-mediated glucose disposal in patients with noninsulin-dependent diabetes mellitus in the absence of obesity or microalbuminuria--a Clinical Research Center study. Sheu W, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1156-9

Protein metabolism in human obesity: relationship with glucose and lipid metabolism and with visceral adipose tissue. Solini A, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2552-8

Hypoglycemic effect of insulin-like growth factor-1 in mice lacking insulin receptors. Di Cola G, et al. **J Clin Invest** 1997 May 15;99(10):2538-44

Regulation of glucose homeostasis in humans with denervated livers. Perseghin G, et al. **J Clin Invest** 1997 Aug 15;100(4):931-41

Intact insulin stimulation of skeletal muscle blood flow, its heterogeneity and redistribution, but not of glucose uptake in non-insulin-dependent diabetes mellitus. Utriainen T, et al. **J Clin Invest** 1997 Aug 15;100(4):777-85

Glucagon-like peptide-1 can reverse the age-related decline in glucose tolerance in rats. Wang Y, et al. **J Clin Invest** 1997 Jun 15;99(12):2883-9

Performance and glucose metabolism in calves fed a chromium-nicotinic acid complex or chromium chloride. Kegley EB, et al. **J Dairy Sci** 1997 Aug;80(8):1744-50

Effect of growth hormone-releasing factor on the response to insulin of cows during early and late lactation. Rose MT, et al. **J Dairy Sci** 1996 Oct;79(10):1734-45

Therapeutic benefit of benfluorex in type II diabetic patients treated with sulfonylureas. Stucci N, et al. **J Diabetes Complications** 1996 Sep-Oct;10(5):267-73

Therapeutic effect of benfluorex in type II diabetic patients on diet regimen alone. Velussi M, et al. **J Diabetes Complications** 1996 Sep-Oct;10(5):261-6

Postprandial hormone and metabolic responses in simulated shift work. Hampton SM, et al. **J Endocrinol** 1996 Nov; 151(2):259-67

Effects of hyperprolactinaemia on glucose tolerance and insulin release in male and female rats. Reis FM, et al. **J Endocrinol** 1997 Jun;153(3):423-8

Effects of cholinergic blockade by pirenzepine on insulin and glucose response to oral and intravenous glucose and to arginine load in obesity. Maccario M, et al. **J Endocrinol Invest** 1997 Jan;20(1):8-12

Effect of glycemic control on growth hormone and IGFBP-1 secretion in patients with type I diabetes mellitus. Salgado LR, et al. **J Endocrinol Invest** 1996 Jul-Aug;19(7):433-40

The effect of Syzygium cumini (L.) skeels on post-prandial blood glucose levels in non-diabetic rats and rats with streptozotocin-induced diabetes mellitus. Teixeira CC, et al. **J Ethnopharmacol** 1997 May;56(3):209-13

Experimental benefit of moxonidine on glucose metabolism and insulin secretion in the fructose-fed rat. Rösen P, et al. **J Hypertens Suppl** 1997 Jan;15(1):S31-8

Clinical significance of glycosylated haemoglobin (HbA1C) over fasting blood sugar for monitoring metabolic control in diabetic patients with or without complications. Babbar A, et al. **J Indian Med Assoc** 1996 Nov;94(11):414-6

The relationship between insulin, glucose and serum uric acid and their contribution to the progression of renal damage in patients with primary glomerulonephritis. Manitius J, et al. **J Int Med Res** 1996 Nov-Dec;24(6):449-53

Insulin secretion levels necessary for efficacy of an alpha-glucosidase inhibitor on glucose metabolism in patients with non-insulin-dependent diabetes mellitus. Okada S, et al. **J Int Med Res** 1995 Nov-Dec;23(6):497-501

Glucose levels and insulin secretion during a 75 g glucose challenge test in normal pregnancy. Agardh CD, et al. **J Intern Med** 1996 Nov;240(5):303-9

Improved carbohydrate metabolism after physical training and dietary intervention in individuals with the 'atherothrombogenic syndrome'. Oslo Diet and Exercise Study (ODES). A randomized trial. Anderssen SA, et al. **J Intern Med** 1996 Oct;240(4):203-9

Glucose and insulin levels in young subjects with different maternal histories of hypertension: the Hypertension in Pregnancy Offspring Study. Himmelmann A, et al. **J Intern Med** 1997 Jan;241(1):19-22

Relationship between plasma glucose levels in glucose-intolerant women and newborn macrosomia. Verma A, et al. **J Matern Fetal Med** 1997 May-Jun; 6(3):187-93

Effect of intraoperative fluid on blood glucose level in neurosurgery. Ittichaikulthol W, et al. **J Med Assoc Thai** 1997 Jul;80(7):461-5

Macroaggregated albumin potentiates the hypoglycemic effect of microencapsulated islets in the fed state of streptozotocin-induced diabetic mice. Hsu BR, et al. **J Microencapsul** 1997 Jan-Feb;14(1):27-34

Assessment of premenstrual glycemic control in an insulin dependent woman. Herring J, et al. **J Miss State Med Assoc** 1996 Mar;37(3):513-14

Intracerebroventricular neuropeptide Y acutely influences glucose metabolism and insulin sensitivity in the rat. Marks JL, et al. **J Neuroendocrinol** 1997 Feb;9(2):99-103

Change in glucose homeostasis in rats by long-term magnesium-deficient diet. Kimura Y, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):407-22

The Scylla and Charybdis of blood glucose control in children with diabetes mellitus [editorial; comment] Sperling MA. **J Pediatr** 1997 Mar;130(3):339-41. Comment on: J Pediatr 1997 Mar;130(3):366-72.

Effect of glycemic control on the growth velocity and several metabolic parameters of conventionally treated children with insulin dependent diabetes mellitus. Gunczler P, et al. **J Pediatr Endocrinol Metab** 1996 Nov-Dec;9(6):569-75

Blood glucose normalization-induced haemolysis in three adolescents with type 1 diabetes mellitus at onset and unknown G-6-PD deficiency. Vanelli M, et al. **J Pediatr Endocrinol Metab** 1996 Mar-Apr;9(2):193-6

Anthropometric characteristics of full-term infants: effects of varying degrees of "normal" glucose metabolism. Mello G, et al. **J Perinat Med** 1997;25(2):197-204

Effect of intrathecal morphine on blood glucose, glucagon and tissue glycogen in rat: comparison with the effect of xanthan gum on blood glucose. el Daly ES. **J Pharm Belg** 1996 Jul-Aug;51(4):195-9

Carbohydrate metabolism. Evaluation in women with de novo hypertension in late pregnancy. Bartha JL, et al. **J Reprod Med** 1997 Aug;42(8):489-96

Estrogen deprivation, rather than age, is responsible for the poor lipid profile and carbohydrate metabolism in women. Senöz S, et al. **Maturitas** 1996 Oct;25(2):107-14

Removal of catheter distortion in multiple indicator dilution studies: a deconvolution-based method and case studies on glucose blood-tissue exchange. Sparacino G, et al. **Med Biol Eng Comput** 1997 Jul;35(4):337-42

Short-term canine implantation of a glucose monitoring-telemetry device. Atanasov P, et al. **Med Eng Phys** 1996 Dec;18(8):632-40

Plasma glucose metabolism during exercise: effect of endurance training in humans. Coggan AR. **Med Sci Sports Exerc** 1997 May;29(5):620-7 (36 ref.)

Training enhanced hepatic gluconeogenesis: the importance for glucose homeostasis during exercise. Donovan CM, et al. **Med Sci Sports Exerc** 1997 May;29(5):628-34 (58 ref.)

Improved sensitivity to insulin in obese subjects following weight loss is accompanied by reduced protein-tyrosine phosphatases in adipose tissue. Ahmad F, et al. **Metabolism** 1997 Oct;46(10):1140-5

Pancreatic alpha-cell function in idiopathic reactive hypoglycemia. Ahmadpour S, et al. **Metabolism** 1997 Jun; 46(6):639-43

Lack of deterioration of insulin action with aging in the GK rat: a contrasted adaptation as compared with nondiabetic rats. Berthelier C, et al. **Metabolism** 1997 Aug;46(8):890-6

Decreased glucose effectiveness but not insulin resistance in glucose-tolerant offspring of Japanese non-insulin-dependent diabetic patients: a minimal-model analysis. Doi K, et al. **Metabolism** 1997 Aug;46(8):880-3

Hyperamylinemia is associated with hyperinsulinemia in the glucose-tolerant, insulin-resistant offspring of two Mexican-American non-insulin-dependent diabetic parents. Gulli G, et al. **Metabolism** 1997 Oct;46(10):1157-61

Assessment of insulin action on glucose uptake and production during a euglycemic-hyperinsulinemic clamp in dog: a new kinetic analysis. McGuinness OP, et al. **Metabolism** 1997 Oct;46(10):1116-27

Effects of ventromedial hypothalamus stimulation on glycogenolysis in rat liver using in vivo microdialysis. Takahashi A, et al. **Metabolism** 1997 Aug;46(8):897-901

Intravenous glucose tolerance test-derived glucose effectiveness in bulimia nervosa. Taniguchi A, et al. **Metabolism** 1997 May;46(5):484-6

Insulin secretion, glucose production, and insulin sensitivity in underweight and normal-weight volunteers, and in underweight and normal-weight cancer patients: a Clinical Research Center study. Tayek JA, et al. **Metabolism** 1997 Feb;46(2):140-5

Quantification of the effects of troglitazone on insulin sensitivity and beta-cell function in Watanabe heritable hyperlipidemic rabbits: a minimal model analysis. Zhang B, et al. **Metabolism** 1997 Mar;46(3):273-81

The influence of peritoneal dialysis and the use of subcutaneous and intraperitoneal insulin on glucose metabolism and serum lipids in type 1 diabetic patients. Nevalainen P, et al. **Nephrol Dial Transplant** 1997 Jan; 12(1):145-50

Effects of antihypertensive drugs or glycemic control on antioxidant enzyme activities in spontaneously hypertensive rats with diabetes. Tang Z, et al. **Nephron** 1997;76(3):323-30

Critical values for plasma glucose in aggravating ischaemic brain damage: correlation to extracellular pH. Li PA, et al. **Neurobiol Dis** 1995 Apr;2(2):97-108

The value of positron emission tomography in the diagnosis and monitoring of late infantile and juvenile lipopigment storage disorders (so-called Batten or neuronal ceroid lipofuscinoses). Philippart M, et al. **Neuropediatrics** 1997 Feb;28(1):74-6

Correlational patterns of cerebral glucose metabolism in never-medicated schizophrenics. Katz M, et al. **Neuropsychobiology** 1996;33(1):1-11

Risk for non-insulin-dependent diabetes in the normoglycaemic elderly is associated with impaired cognitive function. Vanhanen M, et al. **Neuroreport** 1997 Apr 14;8(6):1527-30

Nutrient consumption and metabolic perturbations. LaManna JC, et al. **Neurosurg Clin N Am** 1997 Apr;8(2):145-63 (67 ref.)

The in vivo metabolic pattern of low-grade brain gliomas: a positron emission tomographic study using 18F-fluorodeoxyglucose and 11C-L-methylmethionine. Derlon JM, et al. **Neurosurgery** 1997 Feb;40(2):276-87; discussion 287-8

Prognostic value positron emission tomography with [18F]fluoro-2-deoxy-D-glucose in the low-grade glioma. De Witte O, et al. **Neurosurgery** 1996 Sep;39(3):470-6; discussion 476-7

Cardiac 18F-FDG-SPET studies in patients with non-insulin-dependent diabetes mellitus during hyperinsulinaemic euglycaemic clamping. Bax JJ, et al. **Nucl Med Commun** 1997 Mar;18(3):200-6

Effect of L-glutamine supplementation on impaired glucose regulation during intravenous lipid administration [see comments] Ballard TC, et al. **Nutrition** 1996 May; 12(5):349-54. Comment in: Nutrition 1996 May;12(5):375.

Pre-stress carbohydrate solution prevents fatal outcome after hemorrhage in 24-hour food-deprived rats. Nettelbladt CG, et al. **Nutrition** 1996 Oct;12(10):696-9

A fall in blood glucose level precedes meal onset in free-feeding rats. 1980 [classical article] [see comments] Louis-Sylvestre J, et al. **Obes Res** 1996 Sep;4(5):497-500 . Comment in: Obes Res 1996 Sep;4(5):489-92.

Glucostatic mechanism of regulation of food intake. 1953 [classical article] [see comments] Mayer J. **Obes Res** 1996

Sep;4(5):493–6. Comment in: Obes Res 1996 Sep;4(5):489–92.

Dietary myoinositol results in lower urine glucose and in lower postprandial plasma glucose in obese insulin resistant rhesus monkeys. Ortmeyer HK. **Obes Res** 1996 Nov; 4(6):569–75

Amelioration of hyperglycemia in streptozotocin-induced diabetic rats receiving a marginal mass of islet grafts by troglitazone, an oral antidiabetic agent. Nagai T, et al. **Pancreas** 1996 Nov;13(4):381–7

Effect of hypoxia on blood glucose, hormones, and insulin receptor functions in newborn calves. Cheng N, et al. **Pediatr Res** 1997 Jun;41(6):852–6

Metabolic and hormone-related responses to caffeine in rats. Leblanc J, et al. **Pharmacol Res** 1995 Sep;32(3):129–33

Studies on pyrazinoylguanidine. 2. Comparative drug and dose effects on glucose and lipid metabolism in streptozotocin-induced diabetic rats. A-Rahim YI, et al. **Pharmacology** 1996 Mar;52(3):145–52

Effect of a Rosmarinus officinalis leave extract on plasma glucose levels in normoglycaemic and diabetic mice. Erenmemisoglu A, et al. **Pharmazie** 1997 Aug;52(8):645–6

Postingestive factors influencing operant sugar intake in pigs. Baldwin BA. **Physiol Behav** 1996 Jul;60(1):283–6

Modulation of plasma glucose by the medial preoptic area in freely moving rats. De Castro MG, et al. **Physiol Behav** 1997 Feb;61(2):215–20

Adaptive metabolic responses in females of the fighting breed submitted to different sequences of stress stimuli. Sánchez JM, et al. **Physiol Behav** 1996 Oct;50(4):1047–52

Nutritional status influences the insulin response produced by acute hepatic vagotomy. Trabelsi F, et al. **Physiol Behav** 1996 Sep;60(3):855–60

Capsaicin-sensitive nerves and endurance exercise in the rat. Trudeau F, et al. **Physiol Behav** 1996 Feb;59(2):355–9

Characteristics of glycemia-sensitive neurons in the nucleus tractus solitarii: possible involvement in nutritional regulation. Yettefti K, et al. **Physiol Behav** 1997 Jan; 61(1):93–100

Effect of Tulasi (Ocimum sanctum) leaf powder supplementation on blood sugar levels, serum lipids and tissue lipids in diabetic rats. Rai V, et al. **Plant Foods Hum Nutr** 1997;50(1):9–16

Hypoglycemic effect of the rhizomes of Polygala senega in normal and diabetic mice and its main component, the triterpenoid glycoside senegin-II. Kako M, et al. **Planta Med** 1996 Oct;62(5):440–3

Effects of breeder hen age and dietary fat on embryonic and neonatal broiler serum lipids and glucose. Latour MA, et al. **Poult Sci** 1996 Jun;75(6):695–701

Changes in gonadal weights, serum lipids, and glucose during maturation in the juvenile northern bobwhite quail (Colinus virginianus). Peebles ED, et al. **Poult Sci** 1996 Nov; 75(11):1411–6

Effects of added dietary lard on body weight and serum glucose and low density lipoprotein cholesterol in randombred broiler chickens. Peebles FD, et al. **Poult Sci** 1997 Jan;76(1):29–36

Brain glucose metabolism in anorexia nervosa and affective disorders: influence of weight loss or depressive symptomatology. Delvenne V, et al. **Psychiatry Res** 1997 May 16;74(2):83–92

Comparison of the behavioural and endocrine response to forced swimming stress in five inbred strains of rats. Armario A, et al. **Psychoneuroendocrinology** 1995; 20(8):879–90

Hormonal response to stress in brittle diabetes. Dutour A, et al. **Psychoneuroendocrinology** 1996 Aug;21(6):525–43

Symptoms at the menopausal and premenopausal years: their relationship with insulin, glucose, cortisol, FSH, prolactin, obesity and attitudes towards sexuality. Huerta R, et al. **Psychoneuroendocrinology** 1995;20(8):851–64

Effects of nortriptyline on depression and glycemic control in diabetes: results of a double-blind, placebo-controlled trial. Lustman PJ, et al. **Psychosom Med** 1997 May-Jun; 59(3):241–50

Health-related quality of life in relation to metabolic control and late complications in patients with insulin dependent diabetes mellitus. Wikblad K, et al. **Qual Life Res** 1996 Feb;5(1):123–30

Fetal insulin-like growth factor (IGF)-I and IGF-II are regulated differently by glucose or insulin in the sheep fetus. Oliver MH, et al. **Reprod Fertil Dev** 1996;8(1):167–72

Hypertension and CHD: evidence of glucose and lipid metabolism involvement. Clemenzia G, et al. **Riv Eur Sci Med Farmacol** 1996 May-Jun;18(3):105–11

Plasma beta-hexosaminidase isoenzymes A and B exhibit different relations to blood glucose levels in a population of Type 1 diabetic patients. Hultberg B, et al. **Scand J Clin Lab Invest** 1995 Dec;55(8):723–8

Foreign- and Swedish-born diabetic patients—a population-based study of prevalence, glycaemic control and social position. Hjelm K, et al. **Scand J Soc Med** 1996 Dec;24(4):243–52

The relationship between glucose control and the development of diabetic nephropathy in type I diabetes. Molitch ME. **Semin Nephrol** 1997 Mar;17(2):101–13 (72 ref.)

Prolonged exercise in pregnancy: glucose homeostasis, ventilatory and cardiovascular responses. Soultanakis HN, et al. **Semin Perinatol** 1996 Aug;20(4):315–27

The effect of hypothermia on potassium and glucose changes in isobaric hemorrhagic shock in the rat. Johnson KB, et al. **Shock** 1996 Sep;6(3):223–9

Selective labeling of [3H]2-deoxy-D-glucose in the snake trigeminal system: basal and infrared-stimulated conditions. Jiang PJ, et al. **Somatosens Mot Res** 1995;12(3–4):299–307

Glycaemic index and optimal performance. Walton P, et al. **Sports Med** 1997 Mar;23(3):164–72 (73 ref.)

Effects of cyclosporine A on serum glucose and insulin metabolism in rats. Bakonyi A, et al. **Transplant Proc** 1996 Oct;28(5):2568–9

Basal and stimulated endocrine metabolic function in recipients of pancreatico-duodenal grafts. Czerwiński J, et al. **Transplant Proc** 1996 Dec;28(6):3509–10

Impaired glucose tolerance in recipients of an intraperitoneally implanted microencapsulated islet allograft is caused by the slow diffusion of insulin through the peritoneal membrane. de Vos P, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):756–7

Detection and morphologic evaluation of allotransplanted rat pancreatic islet cells. Fiedor P, et al. **Transplant Proc** 1997 Jun;29(4):2086

Tacrolimus reduction improves glucose metabolism and insulin secretion after liver transplantation. Golling M, et al. **Transplant Proc** 1996 Dec;28(6):3180–2

A novel immunomodulating agent---leflunomide inhibits experimental autoimmune diabetes in mice. Stošić-Grujičić S, et al. **Transplant Proc** 1996 Dec;28(6):3072–3

Effects of antihypertensive therapy on glucose and lipid metabolism. Zehetgruber M, et al. **Wien Klin Wochenschr** 1996 Dec 27;108(24):775–80 (61 ref.)

Infusion of various short chain fatty acids causes different changes in the blood glucose and insulin concentrations in growing lambs deprived of food overnight. Husveth F, et al. **Zentralbl Veterinarmed A** 1996 Sep;43(7):437–44

[Clinical significance of determinations of blood catecholamine, glucose and isulin in burn patients] Han Z, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):216–8 (Eng. Abstr.) **(Chi)**

[Effect of bushenhuoxue tablet on serum lipid peroxide, blood lipid and blood sugar in type II diabetics] Chen YB, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Nov; 15(11):661–3 (Eng. Abstr.) **(Chi)**

[Loss of sensitivity for hypoglycemia: a reversible phenomenon] Veneman TF. **Ned Tijdschr Geneeskd** 1996 Aug 31;140(35):1752–5 (29 ref.) **(Dut)**

[The night of the insulin-dependent diabetic patient. Recommendations of ALFEDIAM (French Language Association for the Study of Diabetes and Metabolic Diseases)] Bennis D, et al. **Diabetes Metab** 1996 Dec; 22(6):470–5 **(Fre)**

[Physiopathology of nocturnal glycemic regulation] Féry F. **Journ Annu Diabetol Hotel Dieu** 1996;:211–24 (91 ref.) **(Fre)**

[Possible contribution of hyperglycemia in utero to glucose homeostasis disorders in the adult] Ktorza A, et al. **Journ Annu Diabetol Hotel Dieu** 1997;:55–68 (43 ref.) **(Fre)**

[The quality of sleep: an underestimated factor in glycemic regulation?] Scheen AJ, et al. **Journ Annu Diabetol Hotel Dieu** 1996;:253–65 (49 ref.) **(Fre)**

[PET scan in general practice for diagnosis of breast carcinoma] Ruhlmann J, et al. **Acta Med Austriaca** 1997; 24(2):63–7 (Eng. Abstr.) **(Ger)**

[The effect of preischemic blood sugar concentration on hemodynamics and regional organ blood flow during and following cardiopulmonary resuscitation (CPR) in swine] Gervais HW, et al. **Anaesthesist** 1996 Oct;45(10):941–9 (Eng. Abstr.) **(Ger)**

[Glucose homeostasis. Physiology and type II diabetes] Stumvoll M. **Dtsch Med Wochenschr** 1997 Feb 21; 122(8):235–41 (53 ref.) **(Ger)**

[Detection of multi-focal breast carcinoma using 2[18F] fluoro-deoxy-D-glucose positron emission tomography (FDG-PET)] Scharl A, et al. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):434–7 (Eng. Abstr.) **(Ger)**

[Effect of calcium and substrates on post-anoxic energy metabolism of isolated acinar cells of the rat pancreas] Kosowski H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:699–703 (Eng. Abstr.) **(Ger)**

[Coronary risk factors in chronic hemodialysis patients] Lübbecke F, et al. **Med Klin** 1996 Nov 15;91(11):687–93 (Eng. Abstr.) **(Ger)**

[Positron emission tomography (PET) in diagnosis and therapy planning of malignant lymphoma] Dimitrakopoulou-Strauss A, et al. **Radiologe** 1997 Jan; 37(1):74–80 (Eng. Abstr.) **(Ger)**

[PET studies with C-11 ethanol in intratumoral therapy of hepatocellular carcinomas] Dimitrakopoulou-Strauss A, et al. **Radiologe** 1996 Sep;36(9):744–9 (Eng. Abstr.) **(Ger)**

[The role of metabolic control in diabetes mellitus] Magnusson K, et al. **Versicherungsmedizin** 1997 Feb 1; 49(1):4–7 (35 ref.) (Eng. Abstr.) **(Ger)**

[Diuretics and diabetes mellitus] Teuscher AU. **Wien Med Wochenschr** 1996;146(16):439–42 (45 ref.) (Eng. Abstr.) **(Ger)**

[The intestinal hormone glucagon-like peptide 1 (GLP-1): from experiment to the clinic] Göke B, et al. **Z Gastroenterol** 1997 Apr;35(4):285–94 (62 ref.) (Eng. Abstr.) **(Ger)**

[Effect of myocardial viability and coronary revascularization on clinical outcome and prognosis: a follow-up study of 161 patients with coronary heart disease] vom Dahl J, et al. **Z Kardiol** 1996 Nov; 85(11):868–81 (Eng. Abstr.) **(Ger)**

[Comparison of two treatment models in type-II diabetic patients with poor metabolic control: Preformed combination of glibenclamide 2,5 mg + metformin 400 mg or mono-therapy with sulfonylurea at maximal doses? An evaluation at six months] D'Argenzio R, et al. **Minerva Endocrinol** 1996 Sep;21(3):101–10 (Eng. Abstr.) **(Ita)**

[Studies on mechanism of wasting syndrome in TCDD-intoxicated rats] Nishizumi M, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):200–4 (Eng. Abstr.) **(Jpn)**

[Hypoglycemic effect and enhanced gastrointestinal absorption of insulin using new cinnamoyl-phenylalanine derivatives] Fukushima K. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):727–43 (Eng. Abstr.) **(Jpn)**

[The metabolism of glucose and lipids in patients with liver disease undergoing upper abdominal operation and the influence of the difference of intraoperative fluids] Kabutan K, et al. **Masui** 1996 Jan;45(1):44–8 (Eng. Abstr.) **(Jpn)**

[Insulin-induced hypoglycemia test] Horiba N, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:275–8 (3 ref.) **(Jpn)**

[Insulin induced hypoglycemic test] Inoue K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:219–22 (9 ref.) **(Jpn)**

[Glucose tolerance and insulin resistance in the elderly] Ikegami H, et al. **Nippon Ronen Igakkai Zasshi** 1997 May; 34(5):365–8 (Eng. Abstr.) **(Jpn)**

[Glucose metabolism and Alzheimer's dementia] Itagaki T, et al. **Nippon Ronen Igakkai Zasshi** 1996 Aug;33(8):569–72 (Eng. Abstr.) **(Jpn)**

[The concentration of glucose, glycosylated hemoglobin and fructosamine in blood of patients with cerebral hemorrhage in the acute stage of the disease] Chmielewska B, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:123–30 (Eng. Abstr.) **(Pol)**

[The effect of age on glucose tolerance and B cell secretion] Dembe K, et al. **Pol Arch Med Wewn** 1997 Feb;97(2):112–9 (Eng. Abstr.) **(Pol)**

[Relationship between fasting glycemia, serum peptide C, insulin, growth hormone and plasma glucagon in acromegaly] Piniewska-Hułas D, et al. **Pol Arch Med Wewn** 1996 Jun;95(6):524–33 (Eng. Abstr.) **(Pol)**

[Biochemical changes in tuberculosis patients with different somatic types] Malkova MV. **Probl Tuberk** 1997;(3):53–6 (Eng. Abstr.) **(Rus)**

[Change in postprandial glycemia as affected by various carbohydrate-containing products in patients with type II diabetes mellitus] Sharafetdinov KhKh, et al. **Vopr Pitan** 1997;(1):27–30 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Hyperinsulinemia in glucose-tolerant women with preeclampsia. A controlled study. Martinez Abundis E, et al. **Am J Hypertens** 1996 Jun;9(6):610–4

Separate and joint effects of arginine and glucose on ovine fetal insulin secretion. Gresores A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E68–73

Appetite regulation by carbohydrate: role of blood glucose and gastrointestinal hormones. Lavin JH, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E209–14

Selective chronic regulation of GLUT1 and GLUT4 content by insulin, glucose, and lipid in rat cardiac muscle in vivo. Laybutt DR, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1309–16

Comparison of hyperinsulinaemic clamp experiments using venous, 'arterialized' venous or capillary euglycaemia. Nauck MA, et al. **Clin Physiol** 1996 Nov;16(6):589–602

Impaired glucose-induced insulin response in transgenic mice overexpressing the L-phosphofructokinase gene. Knobler H, et al. **Diabetes** 1997 Sep;46(9):1414–8

Influence of glycemic control on viscosity and density of plasma and whole blood in type-1 diabetic patients. Mellinghoff AC, et al. **Diabetes Res Clin Pract** 1996 Jul; 33(2):75–82

Blood glucose during hypothermia in the rat: dependence on the hypothermia-induction way. Alfaro V, et al. **Horm Metab Res** 1996 May;28(5):248–9

Acute effects of blood glucose on chromatic visually evoked potentials in persons with diabetes and in normal persons. Schneck ME, et al. **Invest Ophthalmol Vis Sci** 1997 Apr; 38(5):800–10

The supply of glucose to the brain and cognitive functioning. Benton D, et al. **J Biosoc Sci** 1996 Oct;28(4):463–79 (85 ref.)

D-glucose-sensitive neurosecretory cells of the crab Cancer borealis and negative feedback regulation of blood glucose level. Glowik RM, et al. **J Exp Biol** 1997 May;200 (Pt 10):1421–31

Diabetes: Breaking the curse of the AGEs [news; comment] Drickamer K. **Nature** 1996 Jul 18;382(6588):211–2. Comment on: Nature 1996 Jul 18;382(6588):275–8.

Hypoglycemic effect of stresses and their use for the experimental prophylaxis of diabetes mellitus. Volchegorskii IA, et al. **Neurosci Behav Physiol** 1996 Nov-Dec;26(6):587–91

Blood glucose and subjective energy following cognitive

BLOOD GLUCOSE

demand. Owens DS, et al. **Physiol Behav** 1997 Sep; 62(3):471–8

Hyperglycemia and the vascular effects of cerebral ischemia. Kawai N, et al. **Stroke** 1997 Jan;28(1):149–54

BLOOD GLUCOSE SELF-MONITORING

Monitoring glucose control. Tallis GA, et al. **Aust Fam Physician** 1997 Aug;26(8):976–7

Self monitoring of glucose by people with diabetes: evidence based practice [see comments] Gallichan M. **BMJ** 1997 Mar 29;314(7085):964–7 (21 ref.). Comment in: BMJ 1997 Jul 19;315(7101):184. Comment in: BMJ 1997 Jul 19;315(7101):184–5. Comment in: BMJ 1997 Jul 19;315(7101):185.

Transmission of hepatitis B infection during home blood glucose monitoring [letter] Farkas K, et al. **Diabet Med** 1997 Mar;14(3):263

Conference report: approaches to the treatment of type II diabetes and developments in glucose monitoring and insulin administration. Bloomgarden ZT. **Diabetes Care** 1996 Aug;19(8):906–9

Influence of simulated altitude on the performance of five blood glucose meters. Gautier JF, et al. **Diabetes Care** 1996 Dec;19(12):1430–3

Accuracy of home blood glucose meters during hypoglycemia. Trajanoski Z, et al. **Diabetes Care** 1996 Dec; 19(12):1412–5

Effect of small sample volume on five glucose monitoring systems [letter] Velazquez FR, et al. **Diabetes Care** 1996 Aug;19(8):903–4

Are the implications of the Diabetes Control and Complications Trial (DCCT) feasible in daily clinical practice? Gautier JF, et al. **Diabetes Metab** 1996 Dec; 22(6):415–9

Improvement of the compliance with blood glucose monitoring in young insulin-dependent diabetes mellitus patients by the Sensorlink system. Dorchy H, et al. **Diabetes Res Clin Pract** 1997 May;36(2):77–82

Epidemiology and determinants of blood glucose self-monitoring in clinical practice. Scorpiglione N, et al. **Diabetes Res Clin Pract** 1996 Oct;34(2):115–25

The KID study IV: effects of inpatient rehabilitation on the frequency of glucose self-monitoring, quality of further primary care, on time being unable to work and on everyday psychic strain of type I and type II diabetics—a one-year follow-up. Kissingen Diabetes Intervention Study. Haupt E, et al. **Exp Clin Endocrinol Diabetes** 1997; 105(1):21–31

Diabetes intervention in the information age. Albisser AM, et al. **Med Inf (Lond)** 1996 Oct–Dec;21(4):297–316

UTOPIA: a consultation system for visit-by-visit diabetes management. Deutsch T, et al. **Med Inf (Lond)** 1996 Oct–Dec;21(4):345–58

DIABNET: a qualitative model-based advisory system for therapy planning in gestational diabetes. Hernando ME, et al. **Med Inf (Lond)** 1996 Oct–Dec;21(4):359–74

Randomized controlled pilot trial of a hand-held patient-oriented, insulin regimen optimizer. Holman RR, et al. **Med Inf (Lond)** 1996 Oct–Dec;21(4):317–26

Insulin algorithms in the self-management of insulin-dependent diabetes: the interactive 'Apple Juice' program. Williams AG. **Med Inf (Lond)** 1996 Oct–Dec; 21(4):327–44

[Relationship of self-monitoring of blood glucose and HbA1c in diabetic patients] Tulokas T. **Duodecim** 1995; 111(14):1304–9 **(Fin)**

INSTRUMENTATION

Diagnosis of hypoglycaemia: effects of blood sample handling and evaluation of a glucose photometer in the low glucose range. Elimam A, et al. **Acta Paediatr** 1997 May;86(5):474–8

Comparison of two brands of test strips for self-monitoring of blood glucose. Ho SS, et al. **Am J Health Syst Pharm** 1997 May 1;54(9):1058–62

A comparison of statistical techniques to evaluate the performance of the Glucometer Elite blood glucose meter. Harrison B, et al. **Clin Biochem** 1996 Dec;29(6):521–7

Aberrant results due to incorrect use of the Bayer Glucometer 4 meter [letter; comment] Alexander J. **Diabet Med** 1997 Jan;14(1):86. Comment on: Diabet Med 1996 Jun;13(6):594.

Evaluation of the Accutrend GCT with respect to triglyceride monitoring [letter] Moses RG, et al. **Diabetes Care** 1996 Nov;19(11):1305–6

Accuracy, precision and user-acceptability of self blood glucose monitoring machines. Chan JC, et al. **Diabetes Res Clin Pract** 1997 May;36(2):91–104

Evaluation of the Radiometer whole blood glucose measuring system, EML 105. Harff GA, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar;35(3):241–2

Possible cross-contamination with Boehringer Mannheim AccuData GTS glucose test station. **Health Devices** 1996 Jul;25(7):262

Measurement of glucose consumption by hybridoma cells growing in hollow fiber cartridge bioreactors: use of blood glucose self-monitoring devices. Nayak RC, et al. **J Immunol Methods** 1997 Jul 14;205(2):109–14

[Glucose sensors in tissue, glucose monitoring and controlled insulin administration] Pfeiffer EF. **Med Klin** 1996 Feb 15; 91 Suppl 1:12–5 **(Ger)**

[Current portable blood sugar analysis equipment—comparison of the MediSense Card, Glucometer Elite, Hypocount Supreme and Omnican Control with the glucose oxidase reference method] Weitgasser R, et al. **Schweiz Med Wochenschr** 1997 Jan 7;127(1–2):12–7 (Eng. Abstr.) **(Ger)**

METHODS

Self monitoring of blood glucose in blind diabetic patients. Windecker R, et al. **Diabet Med** 1997 Aug;14(8):703–6

Noninvasive blood glucose monitoring. Klonoff DC. **Diabetes Care** 1997 Mar;20(3):433–7 (28 ref.)

Making an imprint on blood glucose monitoring [news] Wilson GS. **Nat Biotechnol** 1997 Apr;15(4):322

STANDARDS

Identification of need for education in self-monitoring of blood glucose [letter] Eye KL, et al. **Am J Health Syst Pharm** 1996 Jun 15;53(12):1456–7

Reservations on the use of error grid analysis for the validation of blood glucose assays [see comments] Gough DA, et al. **Diabetes Care** 1997 Jun;20(6):1034–6. Comment in: Diabetes Care 1997 Jun;20(6):911–2.

BLOOD GROUP INCOMPATIBILITY

ABO blood group incompatibility in liver transplantation: a single-centre experience. Chui AK, et al. **Aust N Z J Surg** 1997 May;67(5):275–8

Transfusion medicine 1995/96. Proceedings of the 28th Congress of the German Society of Transfusion Medicine and Immunohematology. Wien, 17–20 September 1995. **Beitr Infusionsther Transfusionsmed** 1996;33:1–268 **(Eng, Ger)**

Transfusion requirements after bone marrow transplantation from HLA-identical siblings: effects of donor-recipient ABO incompatibility. Mehta J, et al. **Bone Marrow Transplant** 1996 Jul;18(1):151–6

Massive delayed hemolysis following peripheral blood stem cell transplantation with minor ABO incompatibility. Laurencet FM, et al. **Hematol Cell Ther** 1997 Jun; 39(3):159–62

Alloimmunization and platelet transfusion. McFarland JG. **Semin Hematol** 1996 Oct;33(4):315–28 (132 ref.)

Cross-matching in liver transplantation. Donaldson PT, et al. **Transplantation** 1997 Mar 27;63(6):789–94 (65 ref.)

[Immuno-hemolytic transfusion reactions. III. Report of 61 cases] Le Pennec PY, et al. **Transfus Clin Biol** 1996; 3(3):157–65 (Eng. Abstr.) **(Fre)**

[Rapid onset of hemolytic anemia after allogeneic bone marrow transplantation from an unrelated ABO major mismatched donor] Watanabe H, et al. **Rinsho Ketsueki** 1997 Jan;38(1):14–20 (Eng. Abstr.) **(Jpn)**

BLOOD

Change in blood group phenotype. Balachandran V, et al. **J Indian Med Assoc** 1996 Apr;94(4):151, 153

Application of a computer program to exclude additional unexpected antibodies. Rondeel JM, et al. **Transfusion** 1997 Mar;37(3):298–303

Removal of ABO-incompatible red cells from lymphocytapheresis and granulocytapheresis components before transfusion. Wuest DL, et al. **Transfusion** 1997 Feb; 37(2):144–9

COMPLICATIONS

Fetal ascites associated with ABO incompatibility: case report and review of the literature. Stiller RJ, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1371–2

Early and fatal immune haemolysis after so-called 'minor' ABO-incompatible peripheral blood stem cell allotransplantation. Oziel-Taieb S, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1155–6

Apheresis therapy for prolonged red cell aplasia after major ABO-mismatched bone marrow transplantation. Ohta S, et al. **Intern Med** 1997 Jul;36(7):487–91

DIAGNOSIS

[Thrombomatch—an ELISA test for detection of antibodies to HLA antigens and platelet-specific antigens. Clinical experiences in compatibility testing of platelet transfusions] Barz D, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:47–54 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Mixed erythrocyte chimerism: implications for tolerance of the donor immune system to recipient non-ABO system red cell antigens. Wennerberg A, et al. **Bone Marrow Transplant** 1996 Aug;18(2):433–5

Pilot study of HLA alloimmunization after transfusion with pre-storage leucodepleted blood products in aplastic anaemia. Killick SB, et al. **Br J Haematol** 1997 Jun; 97(3):677–84

Gamma radiation does not prevent transfusion-induced HLA alloimmunization [letter] Ohto H. **Transfusion** 1997 Aug; 37(8):878–9

Successful management of hemolysis in ABO-nonidentical orthotopic liver transplantation by steroid therapy: a case report. Auwerda JJ, et al. **Transpl Int** 1996;9(5):509–12

Pure red cell aplasia after major ABO-incompatible bone marrow transplantation: two case reports of treatment with recombinant human erythropoietin. Fujisawa S, et al. **Transpl Int** 1996;9(5):506–8

[A puerperal woman received massive ABO-incompatible blood transfusion: a case report rescued by exchange transfusion therapy] Fujiki Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jul;48(7):533–6 **(Jpn)**

IMMUNOLOGY

Delayed hemolytic transfusion reaction due to anti-Go(a), an antibody against the low-prevalence Gonzales antigen. Larson PJ, et al. **Am J Hematol** 1996 Dec;53(4):248–50

ABO incompatible renal transplantation: a chance to re-examine? Mackie FE, et al. **Aust N Z J Med** 1996 Dec; 26(6):824–6

Weak expression of blood type B antigen in kidney tissue and successful B-incompatible kidney transplantation without special treatments. Koyama I, et al. **Transpl Int** 1996;9 Suppl 1:S25–7

PREVENTION & CONTROL

Sensitivity analysis of cost-effectiveness of mechanical barrier system to reduce risk of a mistransfusion [letter] Silva VA. **Transfusion** 1997 Feb;37(2):243

THERAPY

[A case of renal transplantation from an ABO-incompatible donor successfully pretreated with double filtration plasmapheresis] Hirano Y, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):887–90 (Eng. Abstr.) **(Jpn)**

[A puerperal woman received massive ABO-incompatible blood transfusion: a case report rescued by exchange transfusion therapy] Fujiki Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jul;48(7):533–6 **(Jpn)**

BLOOD GROUPING AND CROSSMATCHING

Transfusion medicine 1995/96. Proceedings of the 28th Congress of the German Society of Transfusion Medicine and Immunohematology. Wien, 17–20 September 1995. **Beitr Infusionsther Transfusionsmed** 1996;33:1–268 **(Eng, Ger)**

Monoclonal antibodies: epitope specificity and typing of Dpartial cells. Sonneborn HH, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:13–6

Provision of an out-of-hours blood banking service at a satellite hospital without blood bank staff. Cheng G, et al. **Clin Lab Haematol** 1996 Sep;18(3):201–5

Frequencies of the blood groups ABO, Rhesus, D category VI, Kell, and of clinically relevant high-frequency antigens in south-western Germany. Wagner FF, et al. **Infusionsther Transfusionsmed** 1995 Oct;22(5):285–90

Influence of anti-HLA antibodies and positive T-lymphocytotoxic crossmatch on survival and graft rejection in human liver transplantation. Charco R, et al. **J Hepatol** 1996 Apr;24(4):452–9

Three new HLA-B alleles found in Mexican-Americans. Adams EJ, et al. **Tissue Antigens** 1995 Nov;46(5):414–16

Guidelines for pre-transfusion compatability procedures [letter] Ashford P. **Transfus Med** 1997 Jun;7(2):171

From maximum surgical blood ordering schedule to unlimited computer crossmatching: evolution of blood transfusion for surgical patients at a tertiary hospital in Hong Kong. Chan AH, et al. **Transfus Med** 1996 Jun; 6(2):121–4

The pH, conductivity and osmolality of low ionic strength solutions used within the U.K. for the antiglobulin test. Phillips PK, et al. **Transfus Med** 1991 Sep;1(3):155–8

A murine monoclonal anti-N, BIRMA-N, suitable for blood grouping in an automated system. Thompson JM, et al. **Transfus Med** 1991 Dec;1(4):239–43

The acquired-B phenomenon. Judd WJ, et al. **Transfus Med Rev** 1996 Apr;10(2):111–7 (43 ref.)

Remote electronic blood release system. Cox C, et al. **Transfusion** 1997 Sep;37(9):960–4

Crossmatch-compatible platelets improve corrected count increments in patients who are refractory to randomly selected platelets. Gelb AB, et al. **Transfusion** 1997 Jun; 37(6):624–30

On the high probability that a perceived lack of value of obtaining a p value will be detrimental to patient care [letter; comment] [see comments] Judd WJ, et al. **Transfusion** 1997 Aug;37(8):877. Comment on: Transfusion 1997 Aug;37(8):816–22. Comment in: Transfusion 1997 Aug;37(8):773–4.

Serologic characteristics of H-deficient phenotypes among Chinese in Hong Kong. Mak KH, et al. **Transfusion** 1996 Nov–Dec;36(11–12):994–9

The impact of a positive crossmatch upon outcome after liver transplantation. Goggins WC, et al. **Transplantation** 1996 Dec 27;62(12):1794–8

[Thrombomatch—an ELISA test for detection of antibodies to HLA antigens and platelet-specific antigens. Clinical experiences in compatibility testing of platelet transfusions] Barz D, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:47–54 (Eng. Abstr.) **(Ger)**

[Effect of HLA antibodies on the gel centrifugation test] Stangenberg W, et al.
Beitr Infusionsther Transfusionsmed 1996;33:43–6 (Eng. Abstr.) **(Ger)**
[Human monoclonal antibody against enzyme treated erythrocytes] Wagner FF, et al.
Beitr Infusionsther Transfusionsmed 1996;33:40–2 **(Ger)**
[Immunohematologic study and transfusion approach to patients with public antibodies] Solves P, et al.
Sangre (Barc) 1997 Feb;42(1):25–9 (Eng. Abstr.) **(Spa)**

HISTORY

Two models for human genetics: blood grouping and psychiatry in Germany between the World Wars. Mazumdar PM. **Bull Hist Med** 1996 Winter;70(4):609–57

INSTRUMENTATION

Weak rhesus D (RH1) grouping on the Olympus PK7100 blood grouping system [letter] Moncharmont P, et al. **Transfus Med** 1997 Mar;7(1):66–7
Efficient and safe definition of the rhesus-negative donor on the olympus PK 7200 without the indirect antiglobulin test for weak D [letter] Mertens G, et al. **Vox Sang** 1996; 70(4):237–8

METHODS

The sensitivity of allele-specific polymerase chain reaction can obviate concern of maternal contamination when fetal samples are genotyped for immune cytopenic disorders. Hessner MJ, et al. **Am J Obstet Gynecol** 1997 Feb; 176(2):327–33
Prenatal analysis of rhesus CcDEe blood groups by heteroduplex generator. Rose NC, et al.
Am J Obstet Gynecol 1997 May;176(5):1084–9
Polymerase chain reaction determination of RhC, Rhc, and RhE blood types: an evaluation of accuracy and clinical utility. Yankowitz J, et al. **Am J Obstet Gynecol** 1997 May; 176(5):1107–11
Use of the polymerase chain reaction-sequence specific oligonucleotide technique for the detection of the K1/K2 polymorphism of the Kell blood group system [letter] Mifsud NA, et al. **Blood** 1997 Jun 15;89(12):4662–3
New technologies for red-cell serology. Knight RC, et al. **Blood Rev** 1996 Jun;10(2):101–10 (67 ref.)
Detection of Kell blood groups: molecular methods in the diagnostic laboratory. Murphy MT, et al. **Blood Rev** 1997 Mar;11(1):8–15 (60 ref.)
Increase of blood donations found positive in the direct antiglobulin test detected by column methods--do we need to know? [letter; comment] Bromilow IM.
Br J Biomed Sci 1996 Dec;53(4):325–6. Comment on: Br J Biomed Sci 1996 Jun;53(2):172–3.
A comparison of two column agglutination technologies for routine antibody screening using the indirect antiglobulin technique [see comments] Byrne T, et al.
Br J Biomed Sci 1996 Sep;53(3):193–5. Comment in: Br J Biomed Sci 1997 Jun;54(2):153.
LISS versus other low ionic suspension solutions for red cells [letter] Knight R. **Br J Biomed Sci** 1997 Mar;54(1):74
Column agglutination technologies [letter; comment] Scott Y, et al. **Br J Biomed Sci** 1997 Jun;54(2):153. Comment on: Br J Biomed Sci 1996 Sep;53(3):193–5.
Failure to detect potent anti-H in Parabombay patients with the gel system [letter] Cheng G, et al.
Clin Lab Haematol 1996 Mar;18(1):63–4
A new PCR-based typing of the Rodgers and Chido antigenic determinants of the fourth component of human complement. Barba GM, et al. **Eur J Immunogenet** 1994 Oct;21(5):325–39
Hemogenetic studies in southern Germany. Schmidt HD, et al. **Gene Geogr** 1996 Dec;10(3):191–200
A rapid and reliable PCR method for genotyping the ABO blood group. II: A2 and O2 alleles. O'Keefe DS, et al. **Hum Mutat** 1996;8(4):358–61
An improved method for MN genotyping by the polymerase chain reaction. Nakayashiki N, et al. **Int J Legal Med** 1996; 109(4):216–7
A unique and sensitive ELISA technique for typing ABH antigens in bloodstains using UEA-I lectin--the removal of detergent with a Sephadex G-25 mini-column improves sensitivity [retracted by Kimura K, Matsubara K. In: J Forensic Sci 1996 Nov;41(6):1085] Matsubara K, et al.
J Forensic Sci 1996 Jan;41(1):35–9
Isolation of cell surface-specific human monoclonal antibodies using phage display and magnetically-activated cell sorting: applications in immunohematology. Siegel DL, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):73–85
Raising the sensitivity of fetal RhD typing and sex determination from maternal blood [letter] Hengstschläger M, et al. **J Med Genet** 1997 Apr;34(4):350–1
Prenatal detection of rhesus D genotype [letter] Hamlington J, et al. **Lancet** 1997 Feb 22;349(9051):540
Evaluation of IgA measurements as a method for detecting maternal blood contamination of cord blood samples. Ownby DR, et al. **Pediatr Allergy Immunol** 1996 Aug; 7(3):125–9
Rapid molecular determination of fetal rhesus E type. Geifman-Holtzman O, et al. **Prenat Diagn** 1996 Jun; 16(6):489–93
Report on section 2A antibodies: ABH and other glycoconjugates--serology. Beck ML, et al.
Transfus Clin Biol 1997;4(1):29–34
Coordinator's report: ABH and other glycoconjugates--serology. Beck ML.
Transfus Clin Biol 1997;4(1):13–6
Coordinator's report: glycophorin/band 3 and associated antigens. Reid ME, et al. **Transfus Clin Biol** 1997;4(1):57–64
Advances in the use of monoclonal antibodies for blood group testing. Rouger P, et al. **Transfus Clin Biol** 1997 Jul; 4(4):345–9 (14 ref.)
Evaluation of the ID-gel test for antibody screening and identification. Bromilow IM, et al. **Transfus Med** 1991 Sep; 1(3):159–61
Analysis of Knops blood group antigens on CR1 (CD35) by the MAIEA test and by immunoblotting. Petty AC, et al. **Transfus Med** 1997 Mar;7(1):55–62
An explanation and the clinical significance of the failure of microcolumn tests to detect weak ABO and other antibodies. Phillips P, et al. **Transfus Med** 1997 Mar; 7(1):47–53
The implementation and use of automated group and screen procedures in a hospital transfusion laboratory. Growe GH, et al. **Transfus Med Rev** 1996 Apr;10(2):144–51
Detection of acquired B antigen by monoclonal anti-B blood grouping reagents [letter] Case J, et al. **Transfusion** 1997 Jan;37(1):105
Detection of acquired B antigen by monoclonal anti-B blood grouping reagents [letter] Cummings E, et al.
Transfusion 1997 Jan;37(1):105–6
Detection of acquired B antigen by monoclonal anti-B blood grouping reagents [letter] Epstein JS. **Transfusion** 1997 Jan; 37(1):103–5
Suitability of preadmission blood samples for pretransfusion testing in elective surgery. Marosszeky S, et al.
Transfusion 1997 Sep;37(9):910–2
Detection of acquired B antigen by monoclonal anti-B blood grouping reagents [letter] Scott ML, et al. **Transfusion** 1997 Jan;37(1):103
Citrate-dependent auto-antibody causing error in blood grouping. Joshi SR. **Vox Sang** 1997;72(4):229–32
A monolayer coagglutination microplate technique for typing red blood cells. Llopis F, et al. **Vox Sang** 1997;72(1):26–30
DNA-based rhesus typing: simultaneous determination of RHC and RHD status using the polymerase chain reaction. Poulter M, et al. **Vox Sang** 1996;70(3):164–8
Computerized delivery control--a useful and safe complement to the type and screen compatibility testing. Säfwenberg J, et al. **Vox Sang** 1997;72(3):162–8
[Suitability of monoclonal reagents in determination of ABO blood group of newborn infants] Strobel E.
Infusionsther Transfusionsmed 1996 Jun;23(3):138–42 (Eng. Abstr.) **(Ger)**
[Type and Screen: immunohematological safety is ensured and costs are lowered] Riedler GF.
Schweiz Med Wochenschr 1996 Nov 9;126(45):1946–51 (Eng. Abstr.) **(Ger)**
[A rapid polycation method for typing rhesus-system antigens in liquid blood] Skosyrev GV, et al.
Sud Med Ekspert 1996 Jul–Sep;39(3):30–2 (Eng. Abstr.) **(Rus)**

STANDARDS

Guidelines for pre-transfusion compatibility procedures in blood transfusion laboratories. BCSH Blood Transfusion Task Force. **Transfus Med** 1996 Sep;6(3):273–83
International forums--an Australian perspective [letter] Ford DS. **Vox Sang** 1996;70(4):239–40

STATISTICS & NUMERICAL DATA

Likelihood ratios for mixed stains when the number of donors cannot be agreed. Brenner CH, et al. **Int J Legal Med** 1996; 109(4):218–9

TRENDS

Red cell compatibility testing: a perspective for the future. Beck ML, et al. **Transfus Med Rev** 1996 Apr;10(2):118–30 (87 ref.)

UTILIZATION

How rational is the crossmatching of blood in a pediatric emergency department? Grupp-Phelan J, et al.
Arch Pediatr Adolesc Med 1996 Nov;150(11):1140–4
Use of blood products in cardiac surgery. Renton MC, et al. **Perfusion** 1997 May;12(3):157–62

BLOOD GROUPS

see related
CONSANGUINITY
COOMBS' TEST
ISOANTIBODIES
ISOANTIGENS
PATERNITY

Helicobacter pylori infection and blood group antigens: lack of clinical association. Umlauft F, et al.
Am J Gastroenterol 1996 Oct;91(10):2135–8
Unequivocal identification of the equine Dcfmqr phenogroup. Bell K, et al. **Anim Genet** 1996 Apr; 27(2):103–4
Effect of low ionic strength on anti-Pr reactions. Leo A, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:22–5
Further note on possible changes in the geographic distribution of ABO and RH blood groups in Great Britain. Mascie-Taylor CG, et al. **Hum Biol** 1996 Jun;68(3):473–8
Obituary: Arthur Mourant (1904–1994). Roberts DF.
Hum Biol 1997 Apr;69(2):277–9
Use of antibodies directed against blood group substances and lectins together with glycosidase digestion to study the composition and cellular distribution of glycoproteins in the large human airways. Bals R, et al. **J Anat** 1997 Jan;190 (Pt 1):73–84
The bent-leg syndrome in sheep. II. Association with genetic markers. Van Niekerk FE, et al. **J S Afr Vet Assoc** 1990 Dec;61(4):151–4
Etiology and pathophysiology of tendon ruptures in sports. Kannus P, et al. **Scand J Med Sci Sports** 1997 Apr; 7(2):107–12
Blood group antigens Rb(a), Tr(a), and Wd(a) are located in the third ectoplasmic loop of erythroid band 3. Jarolim P, et al. **Transfusion** 1997 Jun;37(6):607–15
[Linguistics in blood group serology] van Dijk BA, et al.
Ned Tijdschr Geneeskd 1997 Mar 22;141(12):592–4 (Eng. Abstr.) **(Dut)**
[Effect of HLA antibodies on the gel centrifugation test] Stangenberg W, et al.
Beitr Infusionsther Transfusionsmed 1996;33:43–6 (Eng. Abstr.) **(Ger)**
[Human monoclonal antibody against enzyme treated erythrocytes] Wagner FF, et al.
Beitr Infusionsther Transfusionsmed 1996;33:40–2 **(Ger)**
[Ecoepidemiology of Ascaris lumbricoides in an endemic area and its relation with blood groups] Morales GA, et al.
Acta Cient Venez 1994;45(4):287–91 (Eng. Abstr.) **(Spa)**
[Significance of blood antigens in hematogenous osteomyelitis in children] Kukuruza IuP, et al.
Klin Khir 1996;(4):43–5 **(Ukr)**

ANALYSIS

Blood-group phenotypes, sulfomucins, and Helicobacter pylori in Barrett's esophagus. Torrado J, et al.
Am J Surg Pathol 1997 Sep;21(9):1023–9
Detection of blood group antigens utilising immobilised antibodies and surface plasmon resonance. Quinn JG, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):87–96
Ultrastructural localization of blood group antigens in human exocrine pancreas by immunogold labelling. Lantini MS, et al. **J Submicrosc Cytol Pathol** 1997 Apr;29(2):245–51
A new solid-phase assay system using magnetic force on blood group serology. Ohgama J, et al. **Transfus Med** 1996 Dec;6(4):351–9

BLOOD

Comparison between the erythrocyte and urinary Sda antigen distribution in a large number of individuals from Emilia-Romagna, a region of northern Italy. Conte R, et al. **Transfus Med** 1991 Mar;1(1):47–9

CHEMISTRY

Blood group antigens: molecules seeking a function? Greenwell P. **Glycoconj J** 1997 Feb;14(2):159–73 (223 ref.)
Histochemical detection of expression of binding sites for labelled hyaluronic acid and carrier-immobilized synthetic (histo-blood group trisaccharides) or biochemically purified (ganglioside GM1) glycoligands in nasal polyps and other human lesions including neoplasms. Hassid S, et al. **Histol Histopathol** 1996 Oct;11(4):985–92
On the origin of elementary hexoses. Hirabayashi J.
Q Rev Biol 1996 Sep;71(3):365–80 (56 ref.)

CLASSIFICATION

Terminology for red cell surface antigens. Makuhari Report. Daniels GL, et al. **Vox Sang** 1996;71(4):246–8

GENETICS

The sensitivity of allele-specific polymerase chain reaction can obviate concern of maternal contamination when fetal samples are genotyped for immune cytopenic disorders. Hessner MJ, et al. **Am J Obstet Gynecol** 1997 Feb; 176(2):327–33
Mitochondrial versus nuclear admixture estimates demonstrate a past history of directional mating. Merriwether DA, et al. **Am J Phys Anthropol** 1997 Feb; 102(2):153–9
Genetic origins of the Japanese: a partial support for the dual structure hypothesis. Omoto K, et al.
Am J Phys Anthropol 1997 Apr;102(4):437–46
Chromosomal assignment of porcine EAD, EAO, LPR and P3 genes by linkage analysis [published erratum appears in Anim Genet 1996 Aug;27(4):295] Cepica S, et al.
Anim Genet 1996 Apr;27(2):109–11
Genetic polymorphisms of the Basques from Gipuzkoa: genetic heterogeneity of the Basque population. Manzano C, et al. **Ann Hum Biol** 1996 Jul–Aug;23(4):285–96
Human erythrocyte antigen expression: its molecular bases. Avent ND. **Br J Biomed Sci** 1997 Mar;54(1):16–37 (197 ref.)
A new PCR-based typing of the Rodgers and Chido antigenic determinants of the fourth component of human complement. Barba GM, et al. **Eur J Immunogenet** 1994 Oct;21(5):325–39
Kell and Xg gene frequencies in Algeria. Aireche H, et al.

Gene Geogr 1995 Dec;9(3):177–84
Genetic characteristics of the Georgian population. Nasidze IS, et al. **Gene Geogr** 1996 Aug;10(2):105–12
Blood group polymorphisms in the Canary Islands. Pinto F, et al. **Gene Geogr** 1996 Dec;10(3):171–9
Blood group antigens: molecules seeking a function? Greenwell P. **Glycoconj J** 1997 Feb;14(2):159–73 (223 ref.)
Genetic structure of populations in western Tyrol. Mager K, et al. **Hum Biol** 1996 Dec;68(6):915–27
Serological analysis of the Abbad Tribe of Jordan. Nabulsi AJ, et al. **Hum Biol** 1997 Jun;69(3):357–73
Genetic variation in the population of Ibiza (Spain): genetic structure, geography, and language. Picornell A, et al. **Hum Biol** 1996 Dec;68(6):899–913
Dombrock blood group (DO): assignment to chromosome 12p. Eiberg H, et al. **Hum Genet** 1996 Nov;98(5):518–21
Genetic markers and duodenal ulcer. Shahid A, et al. **JPMA J Pak Med Assoc** 1997 May;47(5):135–7
Erythrocyte blood group antigens: polymorphisms of functionally important molecules. Telen MJ. **Semin Hematol** 1996 Oct;33(4):302–14 (98 ref.)
Blood group polymorphisms: molecular approach and biological significance. Daniels G. **Transfus Clin Biol** 1997 Jul;4(4):383–90 (25 ref.)
Polymorphism of the h allele and the population frequency of sporadic nonfunctional alleles [published erratum appears in Transfusion 1997 Jun;37(6):674] Wagner FF, et al. **Transfusion** 1997 Mar;37(3):284–90
The low-incidence blood group antigen, Wda, is associated with the substitution Val557—>Met in human erythrocyte band 3 (AE1). Bruce LJ, et al. **Vox Sang** 1996;71(2):118–20
[A molecular approach to the structure, polymorphism and function of blood groups] Cartron JP. **Transfus Clin Biol** 1996;3(3):181–210 (80 ref.) (Eng. Abstr.) **(Fre)**
[Forensic hematology genetics—paternity testing] Kratzer A, et al. **Ther Umsch** 1997 May;54(5):280–5 (Eng. Abstr.) **(Ger)**
[Regional differentiation of blood group frequencies in the Polish population] Gronkiewicz L. **Folia Med Cracov** 1996; 37(3–4):13–28 (Eng. Abstr.) **(Pol)**
[Genetic structure of the Pinzgauer breed in the Carpathian region] Glazko VI, et al. **Genetika** 1996 May;32(5):676–84 (Eng. Abstr.) **(Rus)**
[Detection of the adaptive significance of human blood group polymorphism by analyzing a series of loci. Level of heterozygosity and variety of phenotypes in two generations] Kurbatova OL. **Genetika** 1996 Jul; 32(7):996–1006 (Eng. Abstr.) **(Rus)**
[The gene pool of native inhabitants of the Samburg tundra] Osipova LP, et al. **Genetika** 1996 Jun;32(6):830–6 (Eng. Abstr.) **(Rus)**
[Ethnogenetics of the Komi–Zyrians according to data on the distribution of gene frequencies of erythrocyte and serum systems in the blood] Shubin PN, et al. **Genetika** 1997 Feb;33(2):235–42 (Eng. Abstr.) **(Rus)**
[Influence of environmental and genetic factors on levels of testosterone, estradiol and somatotropic hormones in mountaineers of the Pamir] Spitsyn VA, et al. **Vestn Ross Akad Med Nauk** 1997;(7):46–51 (Eng. Abstr.) **(Rus)**

HISTORY

Association of blood groups and disease: do blood group antigens and antibodies have a biological role? Garratty G. **Pubbl Stn Zool Napoli II** 1996;18(3):321–44
The legacy of serological studies in American physical anthropology. Marks J. **Pubbl Stn Zool Napoli II** 1996; 18(3):345–62
The history of research on blood group genetics: initial discovery and diffusion. Schneider WH. **Pubbl Stn Zool Napoli II** 1996;18(3):277–303

IMMUNOLOGY

Hemolytic disease of the newborn due to anti-Di(a): report of one case. Peng CS, et al. **Acta Paediatr Sin** 1996 Sep–Oct; 37(5):370–2
How do antibodies and lectins recognize histo-blood group antigens? A 3D-QSAR study by comparative molecular field analysis (CoMFA). Imberty a, et al. **Bioorg Med Chem** 1996 Nov;4(11):1979–88
Anti-alpha-galactoside antibody of the human plasma. Appukuttan PS. **Indian J Biochem Biophys** 1996 Jun; 33(3):159–63 (37 ref.)
Coordinator's report: antibodies to Lutheran, Kell, Duffy, Kidd, and Jra antigens. Daniels G. **Transfus Clin Biol** 1997; 4(1):99–103
Investigation of monoclonal antibodies directed against Fy3, Jra, Lub, Kell or Kell related antigens. Janvier D, et al. **Transfus Clin Biol** 1997;4(1):107–9
Recombinant blood group antigens are useful for studying the fine specificity of antibodies against glycophorin A encoded antigens. Rozmyslowicz T, et al. **Transfus Clin Biol** 1997;4(1):77–80
Monoclonal antibodies against human blood group related antigens in tests with non-human primate red cells. Socha WW, et al. **Transfus Clin Biol** 1997;4(1):111–4
Transient depression of LWa antigen with coincident production of anti-LWa repeated in relapses of malignant lymphoma. Komatsu F, et al. **Transfus Med** 1996 Jun; 6(2):139–43
Analysis of Knops blood group antigens on CR1 (CD35) by the MAIEA test and by immunoblotting. Petty AC, et al. **Transfus Med** 1997 Mar;7(1):55–62
Can pooled red cells be used for antibody screening of patients' specimens? [editorial; comment] Phillips P, et al. **Transfus Med** 1996 Dec;6(4):307–9. Comment on: Transfus Med 1996 Dec;6(4):345–9.
The incidence of anti-Wra and Wra antigen in blood donors and hospital patients. Wallis JP, et al. **Transfus Med** 1996 Dec;6(4):361–4
Anti-Di(b) as a red cell autoantibody. Issitt PD, et al. **Transfusion** 1996 Sep;36(9):802–4
A Thr552 —>Ile substitution in erythroid band 3 gives rise to the Warrior blood group antigen. Jarolim P, et al. **Transfusion** 1997 Apr;37(4):398–405
Ruminant cluster WC15. Howard CJ. **Vet Immunol Immunopathol** 1996 Aug;52(4):263
Disappearance of antibodies to Cromer blood group system antigens during mid pregnancy. Reid ME, et al. **Vox Sang** 1996;71(1):48–50
[Solid phase technique versus gel centrifugation for detection of erythrocyte antibodies—a prospective study comparison the 2 antibody detection tests] Zeiler T, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:17–21 (Eng. Abstr.) **(Ger)**
[Dependence of immunological reactivity on blood groups and microflora in patients with chronic purulent otitis media] Zemskov AM, et al. **Vestn Otorinolaringol** 1996 Sep–Oct;(5):39–42 (Eng. Abstr.) **(Rus)**
[Immunohematologic study and transfusion approach to patients with public antibodies] Solves P, et al. **Sangre (Barc)** 1997 Feb;42(1):25–9 (Eng. Abstr.) **(Spa)**

METABOLISM

Histo-blood group antigens in human fetal thymus and in thymomas [published erratum appears in APMIS 1997 Feb;105(2):160] Engel P, et al. **APMIS** 1996 Oct; 104(10):741–9
Preneoplasia-associated expression of calcyclin and of binding sites for synthetic blood group A/H trisaccharide—exposing neoglycoconjugates in human lung. Kayser K, et al. **Cancer Biochem Biophys** 1997 Jun; 15(4):235–43
Ruminant cluster WC15. Howard CJ. **Vet Immunol Immunopathol** 1996 Aug;52(4):263
[When certain blood group antigens are identified as specific membrane transporters (news)] Rondeau E. **Nephrologie** 1996;17(2):138 **(Fre)**

PHYSIOLOGY

Angiotensin I-converting enzyme, blood groups, and a local marrow-specific renin-angiotensin system [letter; comment] Haznedaroğlu IC. **Exp Hematol** 1997 Feb; 25(2):93. Comment on: Exp Hematol 1996 Jun;24(7):790–4.

URINE

Comparison between the erythrocyte and urinary Sda antigen distribution in a large number of individuals from Emilia-Romagna, a region of northern Italy. Conte R, et al. **Transfus Med** 1991 Mar;1(1):47–9

BLOOD LOSS, POSTOPERATIVE see **POSTOPERATIVE HEMORRHAGE**

BLOOD LOSS, SURGICAL

see related
HEMOSTASIS, SURGICAL

Dextran 70 and blood loss during transurethral resection of the prostate. Hahn RG. **Acta Anaesthesiol Scand** 1996 Aug; 40(7):820–3
Use of a PFC-based oxygen carrier to lower the transfusion trigger in a canine model of hemodilution and surgical blood loss. Batra S, et al. **Adv Exp Med Biol** 1997; 411:377–81
A comparison of blood loss and transfusion requirements in total knee arthroplasty with and without arterial tourniquet. Jarolem KL, et al. **Am J Orthop** 1995 Dec;24(12):906–9
Risk factors for bleeding in major abdominal surgery using heparin thromboprophylaxis. Cohen AT, et al. **Am J Surg** 1997 Jul;174(1):1–5
Blood loss during suction termination of pregnancy with two different anaesthetic techniques. Kumarasinghe N, et al. **Anaesth Intensive Care** 1997 Feb;25(1):48–50
Superior and inferior vena cava obstruction in leucocytoclastic vasculitis [letter] Adejumo SW. **Anaesthesia** 1997 Jun;52(6):613–4
Does the platelet-activated clotting test (HemoSTATUS) predict blood loss and platelet dysfunction associated with cardiopulmonary bypass? Ereth MH, et al. **Anesth Analg** 1997 Aug;85(2):259–64
Hemorrhage and the use of blood products after adult cardiac operations: myths and realities. Bélisle S, et al. **Ann Thorac Surg** 1996 Dec;62(6):1908–17 (63 ref.)
Influence of intraoperative blood loss on plasma levels of cytokines and endotoxin and subsequent graft liver function. Miki C, et al. **Arch Surg** 1997 Feb;132(2):136–41
Does intraoperative blood loss affect antibiotic serum and tissue concentrations? Swoboda SM, et al. **Arch Surg** 1996 Nov;131(11):1165–71; discussion 1171–2
Use of calcium antagonists and need for perioperative transfusion in older patients with hip fracture: observational study. Zuccalá G, et al. **BMJ** 1997 Mar 1;314(7081):643–4
Blood loss during first trimester termination of pregnancy: comparison of two anaesthetic techniques. Hall JE, et al. **Br J Anaesth** 1997 Feb;78(2):172–4
Vascular perils during laparoscopic dissection of the oesophageal hiatus. Baigrie RJ, et al. **Br J Surg** 1997 Apr; 84(4):556–7
Do low molecular weight heparin and dextran increase the blood loss in transurethral resection of the prostate? Hjertberg H, et al. **Br J Urol** 1996 Dec;78(6):897–900
Factors influencing blood loss in transurethral resection of the prostate (TURP): auditing TURP. Kirollos MM, et al. **Br J Urol** 1997 Jul;80(1):111–5
Monitoring of hemostasis in cardiac surgical patients: impact of point-of-care testing on blood loss and transfusion outcomes. Despotis GJ, et al. **Clin Chem** 1997 Sep; 43(9):1684–96 (153 ref.)
Relationship between leukocyte count and patient risk for excessive blood loss after cardiac surgery. Despotis GJ, et al. **Crit Care Med** 1997 Aug;25(8):1338–46
Intraoperative and postoperative bleeding problems in patients taking warfarin, aspirin, and nonsteroidal antiinflammatory agents. A prospective study. Billingsley EM, et al. **Dermatol Surg** 1997 May;23(5):381–3; discussion 384–5
Pseudoaneurysm of the right lingual artery: an unusual cause of severe hemorrhage during tonsillectomy. Mitchell RB, et al. **Ear Nose Throat J** 1997 Aug;76(8):575–6
Heparin during aneurysm repair [letter; comment] Vahl AC, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):425. Comment on: Eur J Vasc Endovasc Surg 1996 Jul;12(1):86–90.
Massive pelvic hemorrhage during gynecologic cancer surgery: "pack and go back". Finan MA, et al. **Gynecol Oncol** 1996 Sep;62(3):390–5
Blood transfusion requirements in intracapsular femoral neck fractures. Levi N. **Injury** 1996 Dec;27(10):709–11
Erbe constant voltage electrocautery versus conventional variable voltage electrocautery for tonsillectomy in children. Neumann AM Jr, et al. **Int J Pediatr Otorhinolaryngol** 1997 May 4;40(1):35–40
Autotransfusion after total knee arthroplasty. Effects on blood cells, plasma chemistry, and whole blood rheology. Dalén T, et al. **J Arthroplasty** 1997 Aug;12(5):517–25
Effect of tourniquet use on blood loss and incidence of deep vein thrombosis in total knee arthroplasty. Harvey EJ, et al. **J Arthroplasty** 1997 Apr;12(3):291–6
Reinfusion of mediastinal blood in CABG patients: impact on homologous transfusions and rate of re-exploration. de Varennes B, et al. **J Card Surg** 1996 Nov–Dec;11(6):387–95
Shed mediastinal blood in 500 elective cardiac surgery patients: is there enough for retransfusion routinely? Schirmer U, et al. **J Cardiovasc Surg (Torino)** 1997 Feb; 38(1):45–50
Endoleak as a complication of endoluminal grafting of abdominal aortic aneurysms: classification, incidence, diagnosis, and management. White GH, et al. **J Endovasc Surg** 1997 May;4(2):152–68 (20 ref.)
Clinical utility of human polymerized hemoglobin as a blood substitute after acute trauma and urgent surgery. Gould SA, et al. **J Trauma** 1997 Aug;43(2):325–31; discussion 331–2
Is heparin contraindicated in pelvic lymphadenectomy and radical prostatectomy? Sieber PR, et al. **J Urol** 1997 Sep; 158(3 Pt 1):869–71
A retrospective audit of blood loss in total hip joint replacement surgery at Middlemore Hospital. Gillham M, et al. **N Z Med J** 1997 Aug 8;110(1049):294–7
Blood saving in paediatric anaesthesia [editorial] de Villé A. **Paediatr Anaesth** 1997;7(3):181–2
Massive blood loss during tonsillectomy in a child with congenital venous malformation. Foley PJ, et al. **Paediatr Anaesth** 1997;7(3):243–6
Perioperative blood loss: the effect of valproate. Winter SL, et al. **Pediatr Neurol** 1996 Jul;15(1):19–22 (10 ref.)
Whole blood loss in liposuction: a protocol for handling liposuction specimen [letter] McShane RH, et al. **Plast Reconstr Surg** 1997 Jul;100(1):281
Blood loss in long-term aspirin users undergoing transurethral prostatectomy. Ala-Opas MY, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):203–6
Proceedings of the roundtable of experts in surgery blood management. Vienna, Austria, April 7–9, 1995. **Semin Hematol** 1996 Apr;33(2 Suppl 2):1–80 (0 ref.)
Proceedings of the roundtable of experts in surgery blood management. Vienna, April 7–9, 1995. **Semin Hematol** 1997 Apr;33(2 Suppl 2):1–80
Thromboelastography and liver transplantation. Gillies BS. **Semin Thromb Hemost** 1995;21 Suppl 4:45–9 (15 ref.)
Thromboelastography in liver transplantation. Kang Y. **Semin Thromb Hemost** 1995;21 Suppl 4:34–44 (46 ref.)
Thromboelastography and cardiopulmonary bypass. Spiess BD. **Semin Thromb Hemost** 1995;21 Suppl 4:27–33 (31 ref.)
The use of blood products for surgical bleeding. Lipsett PA, et al. **Semin Vasc Surg** 1996 Dec;9(4):347–53 (28 ref.)
The effect of intraoperative blood loss on serum cefazolin level in patients undergoing instrumented spinal fusion. A prospective, controlled study. Polly DW Jr, et al. **Spine** 1996 Oct 15;21(20):2363–7
Beneficial effects of administering intraportal prostaglandin E1 postoperatively to hepatectomy patients with massive

intraoperative blood loss. Katsuramaki T, et al. **Surg Today** 1996;26(11):895–9

Unaccounted blood loss in operations using cardiopulmonary bypass. Romagnoli A, et al. **Tex Heart Inst J** 1997; 24(1):35–7

Intraoperative bleeding: a mathematical model for minimizing hemoglobin loss. Smetannikov Y, et al. **Transfusion** 1996 Sep;36(9):832–5

Autologous blood donation prior to anatomical radical retropubic prostatectomy: is it necessary? Goh M, et al. **Urology** 1997 Apr;49(4):569–73; discussion 574

Autologous blood procurement in the surgical setting: lessons learned in the last 10 years. Goodnough LT, et al. **Vox Sang** 1996;71(3):133–41 (75 ref.)

[Study of amount of bleeding in endoscopic sinus surgery] Li Y, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1996; 31(1):8–11 (Eng. Abstr.) **(Chi)**

[Unexpected major perioperative blood loss (case analysis)] Krška Z, et al. **Rozhl Chir** 1996 Nov;75(11):541–3 (Eng. Abstr.) **(Cze)**

[Effect of local administration of aprotinin on surgical blood loss after myocardial revascularization] Mandák J, et al. **Rozhl Chir** 1996 May;75(5):272–5 (Eng. Abstr.) **(Cze)**

[Internal hemorrhage in abdominal dermolipectomy. 2 reported cases, one of which needing emergency surgical repair of aortic fissure] Fogli A, et al. **Ann Chir Plast Esthet** 1996 Aug;41(4):385–8 (Eng. Abstr.) **(Fre)**

[The need for blood transfusions in elective colon surgery—is preoperative autotransfusion useful?] Spalinger R, et al. **Swiss Surg** 1996;2(5):208–11 (Eng. Abstr.) **(Ger)**

[A patient who recovered successfully from severe anemia which continued for one hour] Asao Y, et al. **Masui** 1997 May;46(5):700–3 (Eng. Abstr.) **(Jpn)**

[Distribution of irrigating fluid in intracellular and extracellular spaces during transurethral prostatectomy II—TUR syndrome and hyponatremia] Miyao H, et al. **Masui** 1996 Aug;45(8):948–54 (Eng. Abstr.) **(Jpn)**

[Intraoperative ST–T depression during extreme hemodilution] Sugimoto M, et al. **Masui** 1996 Aug; 45(8):1005–8 (Eng. Abstr.) **(Jpn)**

[Anesthesia in surgery involving blood loss of different volume in children] Stepanova NA, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):35–8 (Eng. Abstr.) **(Rus)**

[Thyroid function in patients with posthemorrhagic anemia against a background of ultraviolet irradiation of the blood] Desiaterik VI, et al. **Klin Khir** 1995;(1):44 **(Rus)**

PHYSIOPATHOLOGY

The effect of acute normovolemic hemodilution on homologous blood requirements and total estimated red blood cell volume lost. Kahraman S, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):614–7

Supporting tissue oxygenation during acute surgical bleeding using a perfluorochemical–based oxygen carrier. Keipert PE, et al. **Adv Exp Med Biol** 1996;388:603–9

Baseline hemoglobin as a predictor of risk of transfusion and response to Epoetin alfa in orthopedic surgery patients. de Andrade JR, et al. **Am J Orthop** 1996 Aug;25(8):533–42

A safety and efficacy comparison study of two dosing regimens of epoetin alfa in patients undergoing major orthopedic surgery. Goldberg MA, et al. **Am J Orthop** 1996 Aug;25(8):544–52

Life without hemoglobin [editorial] Zander R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):488–90 **(Eng, Ger)**

Transfusion needs in hip and knee arthroplasty. Kurdy NM. **Ann Chir Gynaecol** 1996;85(1):86–9

The effect of dextran infusion on antithrombin III concentrations and on platelet function during minor surgery. Randell T, et al. **Ann Chir Gynaecol** 1996; 85(1):17–21

Open–heart surgery in Jehovah's Witness patients. Chikada M, et al. **Cardiovasc Surg** 1996 Jun;4(3):311–4

Effects of albumin coating of knitted Dacron grafts on transinterstitial blood loss and tissue ingrowth and incorporation. Kang SS, et al. **Cardiovasc Surg** 1997 Apr; 5(2):184–9

The influence of acute preoperative plasmapheresis on coagulation tests, fibrinolysis, blood loss and transfusion requirements in cardiac surgery. Menges T, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):557–63

Possible benefit of preoperative blood deposit for abdominal surgery. Flordal PA, et al. **World J Surg** 1997 May; 21(4):349–52

[The perioperative use of recombinant erythropoietin (rhEPO) in Jehovah's witnesses] Soukup J, et al. **Anaesthesist** 1996 Aug;45(8):745–9 (Eng. Abstr.) **(Ger)**

[Assuring normovolemia in extreme hemodilution] Adams HA. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct;31(8):494–6 (20 ref.) **(Ger)**

[Albumin as volume replacement: pro] Boldt J. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Sep; 31(7):427–8 **(Ger)**

[Tolerating extreme intraoperative blood loss by a Jehovah's Witness patient] Busse J, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):498–501 **(Ger)**

[Survival of very severe hemorrhage–induced anemia in a Jehovah's Witness] Tessmann R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):501–4 **(Ger)**

[Administration of erythropoietin in extreme anemia] von Bormann B, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):497–8 (18 ref.) **(Ger)**

[Albumin as volume replacement: contra] von Bormann B. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Sep; 31(7):429–31 **(Ger)**

[Oxygen supply and acid–base status in extreme anemia] Zander R. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):492–4 (30 ref.) **(Ger)**

[Changes in hemostasis during orthotopic liver transplantation and massive transfusion: a case report] Kozek–Langenecker SA, et al. **Infusionsther Transfusionsmed** 1995 Oct;22(5):296–300 (Eng. Abstr.) **(Ger)**

[Iron homeostasis in preoperative autologous blood donation] Weisbach V, et al. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):161–70 (84 ref.) (Eng. Abstr.) **(Ger)**

[Effect of intraoperative blood loss on the function of natural killer cells in tumors of the upper gastrointestinal tract] Bruns CJ, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:146–9 (Eng. Abstr.) **(Ger)**

[Intraoperative autotransfusion and use of cell saver systems] Schmandra TC, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:139–42 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Low– or high–vacuum drains in hip arthroplasty? A randomized study of 73 patients. Benoni G, et al. **Acta Orthop Scand** 1997 Apr;68(2):133–7

Routine platelet transfusion in patients undergoing emergency coronary bypass surgery after receiving abciximab. Juergens CP, et al. **Am J Cardiol** 1997 Jul 1; 80(1):74–5

Antifibrinolytic drugs and perioperative hemostasis. Slaughter TF, et al. **Am J Hematol** 1997 Sep;56(1):32–6 (56 ref.)

Are you ready for bloodless surgery? Vernon S, et al. **Am J Nurs** 1997 Sep;97(9):40–6; quiz 47 (12 ref.)

Placenta percreta: balloon occlusion and embolization of the internal iliac arteries to reduce intraoperative blood losses. Dubois J, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):723–6

A prospective, randomized trial limiting perioperative red blood cell transfusions in vascular patients. Bush RL, et al. **Am J Surg** 1997 Aug;174(2):143–8

Vascular endostapler as aid to hepatic vein control during hepatic resections. Ramacciato G, et al. **Am J Surg** 1996 Oct;172(4):358–62

Combination of blood–saving methods decreases homologous blood requirements in scoliosis surgery. Lisander B, et al. **Anaesth Intensive Care** 1996 Oct;24(5):555–8

Tranexamic acid radically decreases blood loss and transfusions associated with total knee arthroplasty. Hiippala ST, et al. **Anesth Analg** 1997 Apr;84(4):839–44

Aprotinin reduces blood loss in patients undergoing elective liver resection. Lentschener C, et al. **Anesth Analg** 1997 Apr;84(4):875–81

The efficacy of tranexamic acid versus placebo in decreasing blood loss in pediatric patients undergoing repeat cardiac surgery. Reid RW, et al. **Anesth Analg** 1997 May; 84(5):990–6

Evaluation of a new point–of–care test that measures PAF–mediated acceleration of coagulation in cardiac surgical patients. Despotis GJ, et al. **Anesthesiology** 1996 Dec;85(6):1311–23

A study of desmopressin and blood loss during spinal fusion for neuromuscular scoliosis: a randomized, controlled, double–blinded study. Theroux MC, et al. **Anesthesiology** 1997 Aug;87(2):260–7

The role of DDAVP (desmopressin) in orthognathic surgery. Guyuron B, et al. **Ann Plast Surg** 1996 Nov;37(5):516–9

Preoperative platelet dysfunction increases the benefit of aprotinin in cardiopulmonary bypass. Ray MJ, et al. **Ann Thorac Surg** 1997 Jan;63(1):57–63

Effect of heparin loading during congenital heart operation on thrombin generation and blood loss. Turner–Gomes SO, et al. **Ann Thorac Surg** 1997 Feb;63(2):482–8

Use of preoperative vascular embolisation in spinal metastasis resection. Hess T, et al. **Arch Orthop Trauma Surg** 1997; 116(5):279–82

Hysterectomy, massive transfusion and packing to control haemorrhage from pelvic veins in the course of bilateral oophorectomy. Edwards WR. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):82–4

Control of pre–sacral haemorrhage by drawing pin tamponade. Stewart BT, et al. **Aust N Z J Surg** 1996 Oct; 66(10):715–6

Avoidance of allogeneic blood transfusions by treatment with epoetin beta (recombinant human erythropoietin) in patients undergoing open–heart surgery. Sowade O, et al. **Blood** 1997 Jan 15;89(2):411–8

Prospective randomized placebo–controlled trial of aprotinin for elective aortic reconstruction. Ranaboldo CJ, et al. **Br J Surg** 1997 Aug;84(8):1110–3

A simplified stapling technique for securing the dorsal vein complex. Muraishi O, et al. **Br J Urol** 1997 Aug;80(2):336–7

Preoperative embolization of cervical spine tumors. Vetter SC, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct; 20(5):343–7

Influence of prophylactic local administration of epinephrine on bleeding complications after polypectomy. Folwaczny C, et al. **Endoscopy** 1997 Jan;29(1):31–3

Measurement of blood loss in clinical studies. Flordal PA. **Eur J Anaesthesiol Suppl** 1997 Mar;14:35–7

Pharmacological prophylaxis of bleeding in surgical patients treated with aspirin. Flordal PA. **Eur J Anaesthesiol Suppl** 1997 Mar;14:38–41 (29 ref.)

Desmopressin and bleeding during invasive surgery. Hunt BJ. **Eur J Anaesthesiol Suppl** 1997 Mar;14:42–7; discussion 47–9 (30 ref.)

Strategies to reduce the need for peri–operative blood transfusion. Mertes N, et al. **Eur J Anaesthesiol Suppl** 1997 Mar;14:24–32; discussion 33–4 (59 ref.)

Aprotinin and deep hypothermic circulatory arrest: there are no benefits even when appropriate amounts of heparin are given. Parolari A, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):149–56

Aprotinin in aortic surgery requiring profound hypothermia and circulatory arrest. Rooney SJ, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):373–8

Perioperative use of recombinant human erythropoietin in patients refusing blood transfusions. Pathophysiological considerations based on 5 cases. Wolff M, et al. **Eur J Haematol** 1997 Mar;58(3):154–9

Argon–enhanced cutting and coagulation confers advantages over conventional electrocautery for mastectomy. Kerin MJ, et al. **Eur J Surg Oncol** 1996 Dec;22(6):571–3

A quick and simple technique for selective control of hepatic arterial bleeding. Yanaga K, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):454–5

Argon beam coagulation rescue to correct bleeding during pelviscopy. Galen DI, et al. **J Am Assoc Gynecol Laparosc** 1994 Feb;1(2):146–9

Traumatic hypogastric artery bleeding controlled with bipolar desiccation during operative laparoscopy. Nezhat F, et al. **J Am Assoc Gynecol Laparosc** 1994 Feb;1(2):171–3

Tranexamic acid reduces blood loss after knee arthroplasty [letter] Howes JP, et al. **J Bone Joint Surg Br** 1996 Nov; 78(6):995–6

Intradermal injection of epinephrine to decrease blood loss during split–thickness skin grafting. Hughes WB, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):243–5

Enhanced blood conservation in primary coronary artery bypass surgery using heparin–bonded circuits with lower anticoagulation. Aldea GS, et al. **J Card Surg** 1996 Mar–Apr;11(2):85–95

Effective use of heparin–bonded circuits and lower anticoagulation for coronary artery bypass grafting in Jehovah's Witnesses. Aldea GS, et al. **J Card Surg** 1996 Jan–Feb;11(1):12–7

Individual strategies of hemostasis for thoracic aortic surgery. de Figueiredo LF, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):222–8 (47 ref.)

Enhanced blood conservation and improved clinical outcome after valve surgery using heparin–bonded cardiopulmonary bypass circuits. Shapira OM, et al. **J Card Surg** 1996 Sep–Oct;11(5):307–17

The efficacy of single–dose aprotinin 2 million KIU in reducing blood loss and its impact on the incidence of deep venous thrombosis in patients undergoing total hip replacement surgery. Hayes A, et al. **J Clin Anesth** 1996 Aug;8(5):357–60

Reoperative mitral valve surgery via right thoracotomy: decreased blood loss and improved hemodynamics [letter; comment] McKeown AJ, et al. **J Heart Valve Dis** 1996 Jul;5(4):463. Comment on: J Heart Valve Dis 1996 Mar;5(2):169–73.

Electrodissection tracheotomy. Alvi A, et al. **J Laryngol Otol** 1996 Aug;110(8):765–6

Preoperative use of GnRH agonist for leiomyomas [letter; comment] Hutchins FL Jr. **J Reprod Med** 1997 Apr; 42(4):253. Comment on: J Reprod Med 1996 Jun;41(6):415–21.

Use of aprotinin after cardiac operations [letter] Alvarez JM. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):513–4

Postoperative use of aprotinin in cardiac operations: an alternative to its prophylactic use. Çiçek S, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1462–7

Additional postbypass administration of tranexamic acid reduces blood loss after cardiac operations. Katoh J, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):802–4

A simple technique of securing inferior epigastric vessels and repairing the rectus sheath at laparoscopic surgery. Chatzipapas IK, et al. **Obstet Gynecol** 1997 Aug;90(2):304–6

The effect of dilute vasopressin solution on blood loss during operative hysteroscopy: a randomized controlled trial. Phillips DR, et al. **Obstet Gynecol** 1996 Nov;88(5):761–6

Hemophilia and EACA [letter] Radivoyevitch MA. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Aug;82(2):118

The use of atraumatic bowel clamps to create a bloodless field in surgery of the lip [letter] Nancarrow JD. **Plast Reconstr Surg** 1996 Dec;98(7):1323–4

Intraoperative blood loss after tangential excision of burn wounds treated by subeschar infiltration of epinephrine. Janežič T, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):245–50

Emerging trends in surgical blood transfusion. Spence RK. **Semin Hematol** 1997 Jul;34(3 Suppl 2):48–53 (51 ref.)

BLOOD LOSS, SURGICAL

Thromboelastographic analysis of patients receiving aprotinin with comparisons to platelet aggregation and other assays. **Koza MJ**, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:80–5

Reduction of blood loss during spinal surgery by epidural blockade under normotensive general anesthesia. Kakiuchi M. **Spine** 1997 Apr 15;22(8):889–94

Hepatic resections in normothermic ischemia. Nuzzo G, et al. **Surgery** 1996 Nov;120(5):852–8

Transfusion requirements are correlated with the degree of proteolysis of von Willebrand factor during orthotopic liver transplantation. Lattuada A, et al. **Thromb Haemost** 1997 Aug;78(2):813–9

Aprotinin has no effect on platelet activation and adhesion during cardiopulmonary bypass. Wahba A, et al. **Thromb Haemost** 1996 May;75(5):844–8

Efficacy of hemostatic agents in improving surgical hemostasis. Green D, et al. **Transfus Med Rev** 1996 Jul; 10(3):171–82 (142 ref.)

Is acute normovolemic hemodilution cost-effective? [letter; comment] Singbartl G, et al. **Transfusion** 1996 Sep; 36(9):849–50. Comment on: Transfusion 1995 Jul;35(7):559–65.

A randomised trial of fibrin sealant in peripheral vascular surgery. Milne AA, et al. **Vox Sang** 1996;70(4):210–2

[Reduction of blood loss in orthotopic liver transplantation with the use of aprotinin] Légaré G, et al. **Ann Chir** 1996; 50(8):601–5 (Eng. Abstr.) **(Fre)**

[The effects of aprotinin. Blood loss and coagulation parameters in orthotopic liver transplantation: A clinical–experimental, prospective and randomized double–blind study] Kratzer MA, et al. **Anaesthesist** 1997 Apr;46(4):294–302 (Eng. Abstr.) **(Ger)**

[Cataract surgery and anticoagulation—current status] Dick B, et al. **Klin Monatsbl Augenheilkd** 1996 Dec;209(6):340–6 (Eng. Abstr.) **(Ger)**

[Autologous blood transfusion: results with routine use of autologous blood transfusion, normovolemic hemodilution and postoperative retransfusion of drainage blood salvaged with the Solcotrans system] Lagana S, et al. **Swiss Surg** 1996;2(6):244–51 (Eng. Abstr.) **(Ger)**

[Preoperative blood storage and intraoperative blood recovery in elective treatment of abdominal aorta aneurysm] Tedesco M, et al. **Ann Ital Chir** 1996 May–Jun; 67(3):399–403 (Eng. Abstr.) **(Ita)**

[Anesthesia combined with profound hypothermia using cardiopulmonary bypass for clipping of giant basilar artery aneurysm] Kawamata T, et al. **Masui** 1996 Nov; 45(11):1388–92 (Eng. Abstr.) **(Jpn)**

[Aprotinin 2 milion KIU reduces perioperative blood loss in patients undergoing primary total hip replacement] Utada K, et al. **Masui** 1997 Jan;46(1):77–82 (Eng. Abstr.) **(Jpn)**

[Clinical experience of total prostatectomy using DDV–L (deep dorsal venous ligator] Tsujihata M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Nov;87(11):1207–13 (Eng. Abstr.) **(Jpn)**

[Effect of aprotinin on bleeding during and graft patency after coronary artery bypass grafting] Minohara S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):821–4 (Eng. Abstr.) **(Jpn)**

[Aprotinin reduces homologous blood transfusions when pediatric cardiac surgery must be redone] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):1980–5 (Eng. Abstr.) **(Jpn)**

[Hemostasis disorders after resection of liver and approaches to their prevention and correction] Vishnevskii VA, et al. **Klin Med (Mosk)** 1996;74(8):32–4 (Eng. Abstr.) **(Rus)**

[Aprotinin in orthotopic liver transplantation (letter; comment)] García Huete L, et al. **Med Clin (Barc)** 1997 Mar 22;108(11):439. Comment on: Med Clin (Barc) 1996 Mar 2;106(8):307–16. **(Spa)**

STATISTICS & NUMERICAL DATA

Use of donor blood in the surgical setting potentials for application of blood substitutes. Greenburg AG, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):25–9 (7 ref.)

BLOOD PATCH, EPIDURAL

Recurrence of post dural puncture headache [letter] Francis PH. **Anaesth Intensive Care** 1997 Feb;25(1):93

Epidural blood patch for atypical headache following obstetric epidural analgesia. Yentis SM, et al. **Anaesthesia** 1997 Jan;52(1):62–4

Magnetic resonance imaging of cerebrospinal fluid leak and tamponade effect of blood patch in postdural puncture headache. Vakharia SB, et al. **Anesth Analg** 1997 Mar; 84(3):585–90

Pharmacologic management of postdural puncture headache. Choi A, et al. **Ann Pharmacother** 1996 Jul–Aug; 30(7–8):831–9 (62 ref.)

Lumbovertebral syndrome after repeat extradural blood patch. Palmer JH, et al. **Br J Anaesth** 1997 Mar;78(3):334–6

Chronic CSF leak into the peritoneal cavity shown by radionuclide cisternography. Successful treatment with an epidural blood patch. Ashley DM, et al. **Clin Nucl Med** 1997 Jun;22(6):390–2

Post-dural puncture headache and epidural blood patch in an AIDS patient [letter] Parris WC. **J Clin Anesth** 1997 Feb;9(1):87–8

Epidural blood patch to treat persistent headache after retromastoid craniectomy [letter] Finegold H, et al. **Reg Anesth** 1996 Nov–Dec;21(6):602–3

Successful use of epidural blood patch for postdural puncture headache following lumbar sympathetic block. Lehmann LJ, et al. **Reg Anesth** 1996 Jul–Aug;21(4):347–9

Pseudomeningocele/CSF fistula in a patient with lumbar spinal implants treated with epidural blood patch and a brief course of closed subarachnoid drainage. A case report. McCormack BM, et al. **Spine** 1996 Oct 1;21(19):2273–6

[Apropos of blood patch after thoracic epidural anesthesia (letter; comment)] Kuhlman G, et al. **Ann Fr Anesth Reanim** 1996;15(2):229. Comment on: Ann Fr Anesth Reanim 1995;14(5):435–7. **(Fre)**

[Chronic tinnitus and hearing loss caused by cerebrospinal fluid leak treated with success with peridural blood patch. Apropos of 2 cases] Viale M, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(3):175–7 (Eng. Abstr.) **(Fre)**

[Evaluation of the blood patch using magnetic resonance (letter)] Catalá–Bauset JC, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):222–3 **(Spa)**

ADVERSE EFFECTS

Intrathecal hematoma and arachnoiditis after prophylactic blood patch through a catheter [letter] Aldrete JA, et al. **Anesth Analg** 1997 Jan;84(1):233–4

Postpartum dural venous sinus thrombosis after postdural puncture headache and epidural blood patch. Borum SE, et al. **Anesthesiology** 1997 Feb;86(2):487–90

Late recurrence of postdural puncture headache. Sidebotham D, et al. **Reg Anesth** 1997 Jul–Aug;22(4):382–4

[Clearing up the epidural blood patch] Maier C. **Anaesthesist** 1997 Mar;46(3):255–8 **(Ger)**

METHODS

Lumbar and thoracic epidural blood injections to treat spontaneous intracranial hypotension. Benzon HT, et al. **Anesthesiology** 1996 Oct;85(4):920–2

Epidural blood patch. Hardman JG, et al. **Br J Hosp Med** 1996 Sep 18–Oct 1;56(6):268–9

BLOOD PLASMA see **PLASMA**

BLOOD PLASMA VOLUME see **PLASMA VOLUME**

BLOOD PLATELET COUNT see **PLATELET COUNT**

BLOOD PLATELET DISORDERS

ABC of clinical haematology. Platelet disorders. Liesner RJ, et al. **BMJ** 1997 Mar 15;314(7083):809–12 (0 ref.)

Pathogenetic analysis of five cases with a platelet disorder characterized by the absence of thromboxane A2 (TXA2)–induced platelet aggregation in spite of normal TXA2 binding activity. Fuse I, et al. **Thromb Haemost** 1996 Dec;76(6):1080–5

BLOOD

Fibrinogen degradation products in patients with the Quebec platelet disorder. Hayward CP, et al. **Br J Haematol** 1997 May;97(2):497–503

Increased reticulated platelets in dialysis patients. Himmelfarb J, et al. **Kidney Int** 1997 Mar;51(3):834–9

Deficiency of (33P)2MeS–ADP binding sites on platelets with secretion defect, normal granule stores and normal thromboxane A2 production. Evidence that ADP potentiates platelet secretion independently of the formation of large platelet aggregates and thromboxane A2 production. Cattaneo M, et al. **Thromb Haemost** 1997 May; 77(5):986–90

Defective signal transduction through the thromboxane A2 receptor in a patient with a mild bleeding disorder: deficiency of the inositol 1,4,5–triphosphate formation despite normal G–protein activation. Mitsui T, et al. **Thromb Haemost** 1997 May;77(5):991–5

[Thrombocyto– and coagulopathies in patients with diabetic glomerulosclerosis and chronic glomerulonephritis] Lapchyns'ka II, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):74–7 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED

Thrombotic microangiopathy as a complication of high–dose chemotherapy for breast cancer. Fisher DC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):193–8

COMPLICATIONS

Gastrointestinal angiodysplasia in constitutional thrombocytopathies [letter; comment] Bellucci S, et al. **Int J Hematol** 1997 Jun;65(4):419–20. Comment on: Int J Hematol 1996 Dec;65(1):79–84.

[Management of patients with coagulation disorder in oral and maxillofacial surgery. I. Management of patients with hypocoagulation caused by primary thrombocytopathy] Chiarini L, et al. **Minerva Stomatol** 1997 Jan–Feb; 46(1–2):61–71 (Eng. Abstr.) **(Ita)**

CONGENITAL

Gastrointestinal angiodysplasia in congenital platelet dysfunction [see comments] Okamura T, et al. **Int J Hematol** 1996 Dec;65(1):79–84. Comment in: Int J Hematol 1997 Jun;65(4):419–20.

DIAGNOSIS

Platelet disorders in newborn infants: diagnosis and management. Blanchette VS, et al. **Semin Perinatol** 1997 Feb;21(1):53–62 (80 ref.)

[Initial experience in the diagnosis of thrombophilia due to activated protein C resistance] Barkagan ZS, et al. **Ter Arkh** 1997;69(2):35–7 (Eng. Abstr.) **(Rus)**

[Thrombocytic disorders in pregnant women with chronic glomerulonephritis and hypertension] Tareeva IE, et al. **Ter Arkh** 1996;68(10):52–5 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Tufted angioma associated with platelet trapping syndrome: response to aspirin. Léauté–Labrèze C, et al. **Arch Dermatol** 1997 Sep;133(9):1077–9 (12 ref.)

ETIOLOGY

Characterization of a novel bleeding disorder with isolated prolonged bleeding time and deficiency of platelet microvesicle generation. Castaman G, et al. **Br J Haematol** 1997 Mar;96(3):458–63

Cardiopulmonary bypass leads to a preferential loss of activated platelets. A flow cytometric assay of platelet surface antigens. Wahba A, et al. **Eur J Cardiothorac Surg** 1996;10(9):768–73

Increased reticulated platelets in dialysis patients. Himmelfarb J, et al. **Kidney Int** 1997 Mar;51(3):834–9

GENETICS

Missense mutations of the glycoprotein (GP) Ib beta gene impairing the GPIb alpha/beta disulfide linkage in a family with giant platelet disorder. Kunishima S, et al. **Blood** 1997 Apr 1;89(7):2404–12

Molecular characterization of a dominantly inherited bleeding disorder with impaired platelet responses to thromboxane A2. Okuma M, et al. **Pol J Pharmacol** 1996 Jan–Feb;48(1):77–82

METABOLISM

Studies of a second family with the Quebec platelet disorder: evidence that the degradation of the alpha–granule membrane and its soluble contents are not secondary to a defect in targeting proteins to alpha–granules. Hayward CP, et al. **Blood** 1997 Feb 15;89(4):1243–53

PATHOLOGY

Megakaryocytes and platelets in alpha–granule disorders. Smith MP, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):125–48 (108 ref.)

Platelet alpha granule deficiency associated with decreased P–selectin and selective impairment of thrombin–induced activation in a new patient with gray platelet syndrome (alpha–storage pool deficiency). Lages B, et al. **J Lab Clin Med** 1997 Mar;129(3):364–75

PHYSIOPATHOLOGY

Human megakaryocyte biology and pathophysiology. Zauli G, et al. **Crit Rev Oncol Hematol** 1995 Nov;21(1–3):135–57 (304 ref.)

Pathophysiology of platelet thrombin receptors. Jamieson GA. **Thromb Haemost** 1997 Jul;78(1):242–6 (49 ref.)

PREVENTION & CONTROL

Low molecular weight heparin stimulates megakaryocytopoiesis in bone–marrow transplantation patients. Or R, et al. **Am J Hematol** 1996 Sep;53(1):46–8

THERAPY

Platelet disorders in newborn infants: diagnosis and management. Blanchette VS, et al. **Semin Perinatol** 1997 Feb;21(1):53–62 (80 ref.)

[The therapeutic correction of disorders in thrombocyte–vascular hemostasis and of changes in the rheological properties of the blood in patients with arterial hypertension] Zadionchenko VS, et al. **Ter Arkh** 1996; 68(5):63–7 (Eng. Abstr.) **(Rus)**

VETERINARY

Platelets from bleeding Simmental cattle have a long delay in both ADP–activated expression of GpIIB–IIIA receptors and fibrinogen–dependent platelet aggregation. Frojmovic MM, et al. **Thromb Haemost** 1996 Dec; 76(6):1047–52

BLOOD PLATELET NUMBER see **PLATELET COUNT**

BLOOD PLATELET TRANSFUSION see **PLATELET TRANSFUSION**

BLOOD PLATELETPHERESIS see **PLATELETPHERESIS**

BLOOD PLATELETS

consider also terms at PLATELET and THROMBOCYT-

see related
PLATELET ACTIVATION
PLATELET ADHESIVENESS
PLATELET AGGREGATION
PLATELET AGGREGATION INHIBITORS
PLATELET COUNT
PLATELET FUNCTION TESTS
PLATELET TRANSFUSION
PLATELETPHERESIS
THROMBOCYTOPENIA
THROMBOCYTOSIS

L-arginine/nitric oxide pathway activation in platelets of migraine patients with and without aura. Gallai V, et al. **Acta Neurol Scand** 1996 Aug;94(2):151–60

Psychopathy, platelet MAO activity and criminality among former juvenile delinquents. Alm PO, et al. **Acta Psychiatr Scand** 1996 Aug;94(2):105–11

Local administration of platelets [letter] Kusminsky G, et al. **Bone Marrow Transplant** 1997 Aug;20(4):345

Peripheral blood stem cells mobilized from patients with acute myeloid leukaemia have different platelet repopulating abilities compared with those mobilized from patients with other diseases. Roberts MM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):41–5

A diagnostic test for heparin-induced thrombocytopenia: detection of platelet microparticles using flow cytometry. Lee DH, et al. **Br J Haematol** 1996 Dec;95(4):724–31

Efficient RT-PCR on platelet mRNA after long-term storage. Peyruchaud O, et al. **Br J Haematol** 1997 Jan; 96(1):183–5

Flow cytometric analysis of platelets from children with the Wiskott-Aldrich syndrome reveals defects in platelet development, activation and structure. Semple JW, et al. **Br J Haematol** 1997 Jun;97(4):747–54

Early attachment of leucocytes, platelets and fibrinogen in endothelial cell-seeded Dacron venous conduits. Jensen N, et al. **Br J Surg** 1997 Jan;84(1):52–7

Tc-99m HMPAO labeled platelets in the detection of left ventricular thrombosis post acute myocardial infarction. Prats E, et al. **Clin Nucl Med** 1996 Nov;21(11):864–6

Leucocyte and platelet-derived bioactive substances in stored blood: effect of prestorage leucocyte filtration. Nielsen HJ, et al. **Eur J Haematol** 1997 Apr;58(4):273–8

Biochemical lesions of platelets stored as concentrates in PVC bags. Krishnan LK, et al. **Indian J Med Res** 1997 Feb;105:85–92

Platelet [3H]imipramine and [3H]paroxetine binding in depressed patients. Rosel P, et al. **J Affect Disord** 1997 Jun;44(1):79–85

Scintigraphy with indium-111-labeled homologous (donor) platelets in the platelet transfusion refractory bone marrow transplant patient. Hammersmith SM, et al. **J Nucl Med** 1997 Jul;38(7):1135–8

High-resolution genetic mapping of the gunmetal gene which regulates platelet production. O'Brien EP, et al. **Mamm Genome** 1996 Mar;7(3):206–8

Platelet-mediated transformation of human mitochondrial DNA-less cells. Chomyn A. **Methods Enzymol** 1996; 264:334–9

Quantification of extracorporeal white cell and platelet deposition in cardiopulmonary bypass: comparison of membrane and bubble oxygenators. Martin W, et al. **Nucl Med Commun** 1996 May;17(5):378–84

Abnormal incorporation of arachidonic acid into platelets of drug-free patients with schizophrenia. Yao JK, et al. **Psychiatry Res** 1996 Feb 28;60(1):11–21

Soluble P-selectin as parameter for platelet activation during storage. Kostelijk EH, et al. **Thromb Haemost** 1996 Dec; 76(6):1086–9

Negatively charged leucocyte filter significantly enhances kallikrein and thrombin-like activities of platelet concentrates. Krailadsiri P, et al. **Thromb Res** 1996 Sep 15;83(6):469–74

A global view on the role of monocytes and platelets in atherogenesis. Osterud B. **Thromb Res** 1997 Jan 1; 85(1):1–22 (116 ref.)

Frozen platelets and platelet substitutes in transfusion medicine. Alving BM, et al. **Transfusion** 1997 Aug; 37(8):866–76

Inhibition of cytokine accumulation and bacterial growth during storage of platelet concentrates at 4 degrees C with retention of in vitro functional activity. Currie LM, et al. **Transfusion** 1997 Jan;37(1):18–24

Improvement of platelet storage conditions by using new polyolefin containers. de Wildt-Eggen J, et al. **Transfusion** 1997 May;37(5):476–81

A multicenter evaluation of the routine use of a new white cell-reduction apheresis system for collection of platelets. Fournel JJ, et al. **Transfusion** 1997 May;37(5):487–92

Studies on platelets exposed to or stored at temperatures below 20 degrees C or above 24 degrees C. Holme S, et al. **Transfusion** 1997 Jan;37(1):5–11

The expression of p-selectin during collection, processing, and storage of platelet concentrates: relationship to loss of in vivo viability. Holme S, et al. **Transfusion** 1997 Jan; 37(1):12–7

Loss of high-affinity thrombin receptors during platelet concentrate storage impairs the reactivity of platelets to thrombin. Lozano ML, et al. **Transfusion** 1997 Apr; 37(4):368–75

Febrile reactions to platelet transfusion: the effect of increased interleukin 6 levels in concentrates prepared by the platelet-rich plasma method. Muylle L, et al. **Transfusion** 1996 Oct;36(10):886–90

Activation of the contact system by filtration of platelet concentrates with a negatively charged white cell-removal filter and measurement of venous blood bradykinin level in patients who received filtered platelets. Shiba M, et al. **Transfusion** 1997 May;37(5):457–62

Evaluation of storage conditions of platelet concentrates prepared from pooled buffy coats. de Wildt-Eggen J, et al. **Vox Sang** 1996;70(1):11–5

Platelets stored in a glucose-free additive solution or in autologous plasma--an ultrastructural and morphometric evaluation. Klinger MH, et al. **Vox Sang** 1996;71(1):13–20

Clumps present in platelet concentrates are formed from fibronectin [letter] Rácz Z. **Vox Sang** 1996;71(4):242

Leukocyte depletion and storage of single-donor platelet concentrates. Weisbach V, et al. **Vox Sang** 1997;72(1):20–5

[Mechanisms of platelet activation and development of antiplatelet agents] Cazenave JP, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1501–6 (Eng. Abstr.) **(Fre)**

[Platelet substitutes--development and possible clinical applications] Murata M. **Rinsho Ketsueki** 1996 Dec; 37(12):1353–61 (37 ref.) **(Jpn)**

[Bacterial contamination of platelet concentrates (letter)] Araújo F, et al. **Sangre (Barc)** 1996 Dec;41(6):483–4 **(Spa)**

CHEMISTRY

High levels of Gs alpha in platelets of euthymic patients with bipolar affective disorder. Mitchell PB, et al. **Am J Psychiatry** 1997 Feb;154(2):218–23

Identification of thrombospondin as a high molecular mass protein released from activated equine platelets. Lipscomb DL, et al. **Am J Vet Res** 1997 Sep;58(9):954–60

Biochemical isolation of a membrane microdomain from resting platelets highly enriched in the plasma membrane glycoprotein CD36. Dorahy DJ, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):67–72

Magnesium levels in plasma, erythrocyte, and platelet in hypertensive and normotensive patients with type II diabetes mellitus. Corica F, et al. **Biol Trace Elem Res** 1996 Jan;51(1):13–21

Electrophoresis of human red blood cells and platelets. Evidence for depletion of dextran. Bäumler H, et al. **Biorheology** 1996 Jul-Oct;33(4-5):333–51

Ultrastructural analysis of the distribution of the vitronectin receptor (alpha v beta 3) in human platelets and megakaryocytes reveals an intracellular pool and labelling of the alpha-granule membrane. Poujol C, et al. **Br J Haematol** 1997 Mar;96(4):823–35

Gliostatin/platelet-derived endothelial cell growth factor as a clinical marker of rheumatoid arthritis and its regulation in fibroblast-like synoviocytes. Waguri Y, et al. **Br J Rheumatol** 1997 Mar;36(3):315–21

Effect of hypercholesterolaemia on platelet growth factors. García-Bolao I, et al. **Eur J Clin Invest** 1996 Oct; 26(10):929–35

Composition of platelet phospholipids after moderate consumption of red wine in healthy volunteers. Pellegrini N, et al. **Eur J Clin Nutr** 1996 Aug;50(8):535–44

Leucocyte and platelet derived bioactive substances in stored standard platelet concentrates [letter] Edvardsen L, et al. **Eur J Haematol** 1996 Aug;57(2):185–7

Catfish thrombocytes express an integrin-like CD41/CD61 complex. Passer BJ, et al. **Exp Cell Res** 1997 Aug 1; 234(2):347–53

Huntington's disease: N-methyl-D-aspartate receptor coagonist glycine is increased in platelets. Reilmann R, et al. **Exp Neurol** 1997 Apr;144(2):416–9

Cytotoxic protein from human platelets. Golubeva TS, et al. **FEBS Lett** 1997 Apr 1;405(3):312–4

Co-localization of CD9 and GPIIb-IIIa (alpha IIb beta 3 integrin) on activated platelet pseudopods and alpha-granule membranes. Brisson C, et al. **Histochem J** 1997 Feb;29(2):153–65

Purification and in vitro activities of rabbit platelet microbicidal proteins. Yeaman MR, et al. **Infect Immun** 1997 Mar;65(3):1023–31

Intraplatelet cyclic 3'-5' guanosine monophosphate is related to serum cholesterol. Anwaar I, et al. **Int Angiol** 1996 Sep; 15(3):201–6

Sphingosine 1-phosphate, a bioactive sphingolipid abundantly stored in platelets, is a normal constituent of human plasma and serum. Yatomi Y, et al. **J Biochem (Tokyo)** 1997 May;121(5):969–73

Tyrosine residue in exon 14 of the cytoplasmic domain of platelet endothelial cell adhesion molecule-1 (PECAM-1/CD31) regulates ligand binding specificity. Famiglietti J, et al. **J Cell Biol** 1997 Sep 22;138(6):1425–35

Pleckstrin associates with plasma membranes and induces the formation of membrane projections: requirements for phosphorylation and the NH2-terminal PH domain. Ma AD, et al. **J Cell Biol** 1997 Mar 10;136(5):1071–9

Thrombomucin, a novel cell surface protein that defines thrombocytes and multipotent hematopoietic progenitors. McNagny KM, et al. **J Cell Biol** 1997 Sep 22; 138(6):1395–407

Characterization of C3-binding proteins on mouse neutrophils and platelets. Quigg RJ, et al. **J Immunol** 1997 Sep 1;159(5):2438–44

Modulation of P-selectin expression on isolated human platelets by an NO donor assessed by a novel ELISA application. Whiss PA, et al. **J Immunol Methods** 1997 Jan 15;200(1-2):135–43

Binding of fibrinogen to platelet integrin alpha IIb beta 3 in solution as monitored by tracer sedimentation equilibrium. Rivas G, et al. **J Mol Recognit** 1996 Jan-Feb; 9(1):31–8

Platelet I1-imidazoline binding sites are elevated in depression but not generalized anxiety disorder. Piletz JE, et al. **J Psychiatr Res** 1996 May-Jun;30(3):147–68

Platelet I1-imidazoline binding sites are decreased by two dissimilar antidepressant agents in depressed patients. Piletz JE, et al. **J Psychiatr Res** 1996 May-Jun;30(3):169–84

Evidence for tryptophan hydroxylase and hydroxy-indol-O-methyl-transferase mRNAs in human blood platelets. Champier J, et al. **Life Sci** 1997; 60(24):2191–7

Platelet and aorta arachidonic and eicosapentaenoic acid levels and in vitro eicosanoid production in rats fed high-fat diets. Sanigorski AJ, et al. **Lipids** 1996 Jul; 31(7):729–35

Zinc in plasma and platelets in patients on regular haemodialysis [letter] Iotova P, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):370–1

Abnormalities of GPIb and GPIIb/IIIa platelet surface glycoproteins in adult and paediatric renal transplant patients [letter] Liani M, et al. **Nephron** 1997;75(3):363–4

Blood platelet fibrinogen receptors in migraine and related headaches. Kozubski W, et al. **Neurol Neurochir Pol** 1996; 30 Suppl 2:25–33 (40 ref.)

Differences in the neuropeptide Y-like immunoreactivity of the plasma and platelets of human volunteers and depressed patients. Nilsson C, et al. **Peptides** 1996;17(3):359–62

Lipid changes in plasma and blood cells following intravenous 10% fat infusion in man. Wang WQ, et al. **Pharmacol Toxicol** 1995 Dec;77(6):377–81

Purification of transforming growth factor beta 1 from human platelets. Werz O, et al. **Pharmazie** 1996 Nov;51(11):893–6

Fatty acid acylation of platelet proteins. Van Cott EM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):33–7 (37 ref.)

Platelet membrane phosphatidylinositol-4,5-bisphosphate alterations in bipolar disorder--evidence from a single case study. Soares JC, et al. **Psychiatry Res** 1997 Mar 24; 69(2-3):197–202

Characterization of VIP-and helodermin-preferring receptors on rat platelets. Shima K, et al. **Regul Pept** 1996 Jul 5;63(2-3):99–103

Platelet-associated factor XIII in platelet activation, adhesion, and clot stabilization. Devine DV, et al. **Semin Thromb Hemost** 1996;22(5):409–13 (42 ref.)

Promotion of the crosslinking of fibrin and alpha 2-antiplasmin by platelets. Hevessy Z, et al. **Thromb Haemost** 1996 Jan;75(1):161–7

Interest of a simple and fast method for platelet von Willebrand factor characterization. de Romeuf C, et al. **Thromb Res** 1996 Aug 15;83(4):287–98

Evidence for an expression of blood group A antigen on platelet glycoproteins IV and V. Stockelberg D, et al. **Transfus Med** 1996 Sep;6(3):243–8

Glucose concentrations in apheresis platelets [letter] Brecher ME, et al. **Transfusion** 1997 Apr;37(4):448

[Development of a method for direct determination of selenium using electrothermal atomic absorption spectrometry in plasma, whole blood, erythrocytes, thrombocytes and leukocytes. Determination of reference values] Rükgauer M, et al. **Biomed Tech (Berl)** 1996 Sep; 41(9):236–41 **(Ger)**

[Diurnal alteration of platelet-free Ca2+ in subjects with normal renal function and patients undergoing CAPD] Yamada K, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug; 38(8):342–8 (Eng. Abstr.) **(Jpn)**

[Analytical procedure of the adhesion molecules: especially for the platelet] Honda S, et al. **Rinsho Byori** 1996 Sep; Suppl 102:97–106 (14 ref.) **(Jpn)**

[Tension-type headache: 5-hydroxytryptamine and related substances] Shimomura T. **Rinsho Shinkeigaku** 1995 Dec; 35(12):1342–4 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Examination of interleukin levels and growth factor from blood platelets in leukemia] Kiersnowska-Rogowska B, et al. **Pol Tyg Lek** 1996 May;51(19–22):281–2, 288 (Eng. Abstr.) **(Pol)**

CYTOLOGY

Qualitative investigations on vital blood platelets by reflection contrast microscopy. Rickert CH, et al. **Acta Anat (Basel)** 1996;155(2):126–30

Thrombopoietin: in vitro predictions, in vivo realities. Kaushansky K. **Am J Hematol** 1996 Nov;53(3):188–91 (31 ref.)

Interleukin-6 and megakaryocytopoiesis: an update. Baatout S. **Ann Hematol** 1996 Oct;73(4):157–62 (90 ref.)

Thrombopoietin: understanding and manipulating platelet production. Kaushansky K. **Annu Rev Med** 1997;48:1–11 (82 ref.)

Megakaryocyte ploidy and platelet changes in human diabetes and atherosclerosis. Brown AS, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):802–7

The evolution of megakaryocytes to platelets. Nurden P, et

al. **Baillieres Clin Haematol** 1997 Feb;10(1):1–27 (101 ref.)
Platelet kinetics after transfusion. Saeki Y, et al. **Biopharm Drug Dispos** 1996 Jan;17(1):71–9
Platelet/polymorphonuclear leukocyte interaction in dynamic conditions: evidence of adhesion cascade and cross talk between P-selectin and the beta 2 integrin CD11b/CD18. Evangelista V, et al. **Blood** 1996 Dec 1; 88(11):4183–94
Platelet size: measurement, physiology and vascular disease. Bath PM, et al. **Blood Coagul Fibrinolysis** 1996 Mar; 7(2):157–61 (41 ref.)
Measurement of platelet volume using a variety of different anticoagulant and antiplatelet mixtures. O'Malley T, et al. **Blood Coagul Fibrinolysis** 1996 Jun;7(4):431–6
Studies on the effects of agonists and antagonists on platelet shape change and platelet aggregation in whole blood. Sanderson HM, et al. **Blood Coagul Fibrinolysis** 1996 Mar; 7(2):245–8
Serotonin stimulates megakaryocytopoiesis via the 5-HT2 receptor. Yang M, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):127–33
The importance of cytoskeleton proteins in megakaryocyte spreading and platelet formation. Baatout S. **Blood Rev** 1996 Mar;10(1):17–9 (25 ref.)
The role of megakaryocyte growth and development factor in terminal stages of thrombopoiesis. Choi ES, et al. **Br J Haematol** 1996 Nov;95(2):227–33
Control of thrombocytopoiesis: current state of the art. Hoffman R, et al. **Cancer Treat Res** 1995;80:25–49 (144 ref.)
Platelet distribution width for differential diagnosis of thrombocytosis. Osselaer JC, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):1072–6
Polyphosphoinositide synthesis and platelet shape change. Hartwig JH, et al. **Curr Opin Hematol** 1997 Sep;4(5):351–6 (45 ref.)
A lineage-selective knockout establishes the critical role of transcription factor GATA-1 in megakaryocyte growth and platelet development. Shivdasani RA, et al. **EMBO J** 1997 Jul 1;16(13):3965–73
Pulmonary platelet production: physical fragmentation and platelet territories [letter] Lunetta P, et al. **Eur J Haematol** 1997 Jul;59(1):63–4
Action of thrombopoietin at the megakaryocyte progenitor level is critical for the subsequent proplatelet production [published erratum appears in Exp Hematol 1997 Mar;25(3):270] Horie K, et al. **Exp Hematol** 1997 Feb; 25(2):169–76
C3H mice have larger spleens, lower platelet counts, and shorter platelet lifespans than C57BL mice: an animal model for the study of hypersplenism. Manning KL, et al. **Exp Hematol** 1997 Sep;25(10):1019–24
Simultaneous administration of TPO and G-CSF after cytoreductive treatment of rhesus monkeys prevents thrombocytopenia, accelerates platelet and red cell reconstitution, alleviates neutropenia, and promotes the recovery of immature bone marrow cells. Neelis KJ, et al. **Exp Hematol** 1997 Sep;25(10):1084–93
Sequential treatment with rmIL-3 or simultaneous treatment with rmIL-3 or rhIL-11 with thrombopoietin (TPO) fails to enhance in vivo neonatal rat thrombocytopoiesis. van de Ven C, et al. **Exp Hematol** 1997 Aug;25(9):1005–12
Promotion of platelet production by hTPO cDNA injection [letter] Zhao JZ, et al. **Haematologica** 1997 May–Jun; 82(3):383
Measurement of transmitted light as an indicator of cryopreserved platelet viability. Arnaud F, et al. **Haemostasis** 1996 Mar–Apr;26(2):107–16
Morphological & ultrastructural changes of platelet concentrates stored in PVC bags. Krishnan LK, et al. **Indian J Med Res** 1997 Feb;105:77–84
Platelet volume and urinary prostanoid metabolites in non-insulin-dependent diabetes mellitus. Inui Y, et al. **J Atheroscler Thromb** 1994;1(2):108–12
Studies on tumor-cell-induced platelet aggregation in human lung cancer cell lines. Heinmöller E, et al. **J Cancer Res Clin Oncol** 1996;122(12):735–44
Von Willebrand factor restores impaired platelet thrombogenesis in copper-deficient rats. Lominadze D, et al. **J Nutr** 1997 Jul;127(7):1320–7
Platelets isolated by albumin gradient retain normal activation pathways. Vecino AM, et al. **Rev Esp Fisiol** 1996 Mar; 52(1):45–8
Interactions of platelets and endothelial cells with erythrocytes and leukocytes in thrombotic thrombocytopenic purpura. Smith BR, et al. **Semin Hematol** 1997 Apr;34(2):90–7 (79 ref.)
Perturbation of platelet adhesion to endothelial cells by plasminogen activation in vitro. Chen H, et al. **Thromb Haemost** 1997 Aug;78(2):934–8
Longitudinal analysis of platelet count and volume in normal pregnancy [letter] Verdy E, et al. **Thromb Haemost** 1997 Apr;77(4):806–7
Human intraplatelet 5-hydroxytryptamine is correlated with mean platelet survival time. Aranda E, et al. **Thromb Res** 1996 Oct 1;84(1):67–72
Differential effect of a low-molecular-weight heparin (dalteparin) and unfractionated heparin on platelet interaction with the subendothelium under flow conditions. Serra A, et al. **Thromb Res** 1997 Aug 15;87(4):405–10
Impala, Aepyceros melampus, platelets: count, morphology, and morphometric observations. du Plessis L, et al. **Tissue Cell** 1997 Apr;29(2):217–20
The expression of p-selectin during collection, processing, and storage of platelet concentrates: relationship to loss of in vivo viability. Holme S, et al. **Transfusion** 1997 Jan; 37(1):12–7
Relationship of the time of storage and transfusion reactions to platelet concentrates from buffy coats. Riccardi D, et al. **Transfusion** 1997 May;37(5):528–30
A modified flow cytometric method for counting very low numbers of white cells in platelet concentrates [letter; comment] Tanaka M, et al. **Transfusion** 1997 Jan; 37(1):102–3. Comment on: Transfusion 1993 Mar;33(3):256–61. Comment on: Transfusion 1993 Mar;33(3):262–7.
[The measurement of platelet life span] Yatomi Y, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:113–6 (5 ref.) **(Jpn)**
[Thrombopoietin] Mizoguchi H. **Rinsho Ketsueki** 1996 Jun; 37(6):483–7 (13 ref.) **(Jpn)**
[A method for determining thrombocyte intravascular activation and its significance for clinical practice] Shitikova AS, et al. **Klin Lab Diagn** 1997 Feb;(2):23–4, 33–5 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Variability of platelet degranulation by different contrast media. Grabowski EF, et al. **Acad Radiol** 1996 Sep;3 Suppl 3:S485–7
Effect of radioprotectors on the aggregability, cAMP and thiol content of blood platelets. Horváth G, et al. **Acta Physiol Hung** 1995;83(4):389–402
Effects of indinavir treatment on platelet and neutrophil counts in patients with advanced HIV disease [letter] Tozzi V, et al. **AIDS** 1997 Jul;11(8):1067–8
Cytokine induction of platelet activation. Lumadue JA, et al. **Am J Clin Pathol** 1996 Dec;106(6):795–8
Effect of heparin on fibrinolytic activity and platelet function in vivo. Upchurch GR, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H528–34
Evaluation of arginine-glycine-aspartate-containing peptides as inhibitors of equine platelet function. Weiss DJ, et al. **Am J Vet Res** 1997 May;58(5):457–60
A novel method for chemical modification of functional groups other than a carboxyl group in proteins by N-ethyl-5-phenylisooxazolium-3'-sulfonate (Woodward's reagent-K): inhibition of ADP-induced platelet responses involves covalent modification of aggregin, an ADP receptor. Puri RN, et al. **Anal Biochem** 1996 Sep 5; 240(2):251–61
The effects of heparinase 1 and protamine on platelet reactivity. Ammar T, et al. **Anesthesiology** 1997 Jun; 86(6):1382–6
Effects of nisoldipine on cytosolic calcium, platelet aggregation, and coagulation/fibrinolysis in patients with coronary artery disease. Fujinishi A, et al. **Angiology** 1997 Jun;48(6):515–21
Effect of spirapril and hydrochlorothiazide on platelet function and euglobulin clot lysis time in patients with mild hypertension. Gleerup G, et al. **Angiology** 1996 Oct; 47(10):951–5
Effect of granulocyte colony stimulating factor on pig blood platelets treated with cisplatin in vitro. Olas B, et al. **Anticancer Drugs** 1997 Feb;8(2):204–9
Cisplatin-induced changes in biological activity of blood platelets: thiol-related mechanisms. Olas B, et al. **Anticancer Drugs** 1996 Jun;7(4):476–82
Modulation of platelet responses by 2-[3-(bromo-2-oxopropylthio)]adenosine-5'-diphosphate involves its binding to as well as covalent modification of an ADP-receptor, aggregin. Puri RN, et al. **Arch Biochem Biophys** 1997 Jul 1;343(1):140–5
No influence of simvastatin treatment on platelet function in vivo in patients with hypercholesterolemia. Bröijersén A, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):273–8
Changes in platelet, granulocyte, and complement activation during cardiopulmonary bypass using heparin-coated equipment. Fukutomi M, et al. **Artif Organs** 1996 Jul; 20(7):767–76
Influence of low and medium molecular weight hydroxyethyl starch on platelets during a long-term hemodilution in patients with cerebrovascular diseases. Treib J, et al. **Arzneimittelforschung** 1996 Nov;46(11):1064–6
Platelet and neutrophil distributions in pump oxygenator circuits. III. Influence of nitric oxide gas infusion. Sly MK, et al. **ASAIO J** 1996 Sep–Oct;42(5):M494–9
Anti-platelet drugs: do they affect megakaryocytes? Cazenave JP, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):163–80 (93 ref.)
Lactacystin, a specific inhibitor of the proteasome, inhibits human platelet lysosomal cathepsin A-like enzyme. Ostrowska H, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):729–32
Mechanism involved in the antiplatelet activity of naloxone in human platelets. Sheu JR, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):12–6
Inhibition of platelet adhesion to collagen by cGMP-elevating agents. Wu CC, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):412–6
Activation of protein-tyrosine kinase Syk in human platelets stimulated with lysophosphatidic acid or sphingosine 1-phosphate. Yang L, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):440–4
Low concentrations of lipid hydroperoxides prime human platelet aggregation specifically via cyclo-oxygenase activation. Calzada C, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):495–500
Effect of erucic acid on platelets in patients with adrenoleukodystrophy. Kickler TS, et al. **Biochem Mol Med** 1996 Apr;57(2):125–33
Thromboxane A2 synthase inhibition and thromboxane A2 receptor blockade by 2-[(4-cyanophenyl)amino]-3-chloro-1,4-naphthalenedione (NQ-Y15) in rat platelets. Chang TS, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):259–68
Effects of S-adenosyl-L-methionine on platelet thromboxane and vascular prostacyclin. De La Cruz JP, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1761–3
Human platelet activation is inhibited upstream of the activation of phospholipase A2 by U73343. Heemskerk JW, et al. **Biochem Pharmacol** 1997 May 9;53(9):1257–62
Fish oil fatty acids and human platelets: dose-dependent decrease in dienoic and increase in trienoic thromboxane generation. Krämer HJ, et al. **Biochem Pharmacol** 1996 Oct 25;52(8):1211–7
Effect of 2-(1-piperazinyl)-4H-pyrido[1,2-a]pyrimidin-4-one (AP155) on human platelets in vitro. Leoncini G, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1667–72
Annexin V inhibition of factor IXa-catalyzed factor X activation on human platelets and on negatively-charged phospholipid vesicles. London F, et al. **Biochemistry** 1996 Dec 24;35(51):16886–97
Albumin prevents metabolism of 12-hydroxyeicosatetraenoic acid by leukocytes in vitro. Dadaian M, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):154–60
Collagen-induced secretion-dependent phase of platelet aggregation is inhibited by the snake venom metalloproteinase jararhagin. Kamiguti AS, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1-2):209–17
Inhibition by ajoene of protein tyrosine phosphatase activity in human platelets. Villar R, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):233–40
Endogenous ADP prevents PGE1-induced tyrosine dephosphorylation of focal adhesion kinase in thrombin-activated platelets. Vostal JG, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1-2):1–12
Platelet plasma membrane in subjects with primary nocturnal enuresis: effect of desmopressin. Giorgi PL, et al. **Biol Cell** 1996;86(2-3):135–7
The potent inhibition of vapiprost, a novel thromboxane A2 receptor antagonist, on the secondary aggregation and ATP release of human platelets. Horie S, et al. **Biol Pharm Bull** 1997 Jun;20(6):625–31
Effects of selective serotonin reuptake inhibitors on platelet serotonin parameters in major depressive disorder. Bakish D, et al. **Biol Psychiatry** 1997 Jan 15;41(2):184–90
Forskolin-stimulated platelet adenylyl cyclase activity is lower in persons with major depression. Menninger JA, et al. **Biol Psychiatry** 1997 Jul 1;42(1):30–8
The serotonin-induced elevation of intracellular Ca2+ in human platelets is enhanced by total fasting. Sudo N, et al. **Biol Psychiatry** 1997 Mar 1;41(5):618–20
In vitro and in vivo effects of selenium and selenium with vitamin E on platelet functions in diabetic rats relationship to platelet sorbitol and fatty acid distribution. Douillet C, et al. **Biol Trace Elem Res** 1996 Dec;55(3):263–77
Fibulin-1 mediates platelet adhesion via a bridge of fibrinogen. Godyna S, et al. **Blood** 1996 Oct 1;88(7):2569–77
Thrombopoietin and thrombin induce tyrosine phosphorylation of Vav in human blood platelets. Miyakawa Y, et al. **Blood** 1997 Apr 15;89(8):2789–98
Signals elicited from human platelets by synthetic, triple helical, collagen-like peptides. Achison M, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):149–52
Inhibition of blood platelet functions by cationic amphiphilic drugs in relation to their physico-chemical properties. Jančinová V, et al. **Blood Coagul Fibrinolysis** 1996 Mar; 7(2):191–3
The effects of nitric oxide (NO) on platelet membrane receptor expression during activation with human alpha-thrombin. Keh D, et al. **Blood Coagul Fibrinolysis** 1996 Sep;7(6):615–24
Magnesium inhibits human platelets. Ravn HB, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):241–4
In vitro adrenaline and collagen-induced mobilization of platelet calcium and its inhibition by naftopidil, doxazosin and nifedipine. Alarayyed NA, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):415–20
A low molecular weight heparin, nadroparin (Fraxiparine), inhibits thrombin-induced platelet shape change and does not enhance spontaneous platelet aggregation. Jagroop IA, et al. **Br J Clin Pharmacol** 1996 Feb;41(2):163–5
Role of a copper (I)-dependent enzyme in the anti-platelet action of S-nitrosoglutathione. Gordge MP, et al. **Br J Pharmacol** 1996 Oct;119(3):533–8
Evidence for human thromboxane receptor heterogeneity using a novel series of 9,11-cyclic carbonate derivatives of prostaglandin F2 alpha. Krauss AH, et al. **Br J Pharmacol** 1996 Mar;117(6):1171–80
Thromboxane A2-mediated shape change: independent of Gq-phospholipase C--Ca2+ pathway in rabbit platelets. Ohkubo S, et al. **Br J Pharmacol** 1996 Mar;117(6):1095–104
The mode of rabbit platelet shape change and aggregation induced by theonezolide-A, a novel polyketide macrolide, isolated from the Okinawan marine sponge Theonella sp.

Rho MC, et al. **Can J Physiol Pharmacol** 1996 Feb; 74(2):193–9

Iloprost antagonizes the increase in internal calcium concentration induced by alpha–thrombin in human platelets: a study of desensitization. Cecchi E, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):773–7

Blockade of receptor–operated calcium channels by mibefradil (Ro 40–5967): effects on intracellular calcium and platelet aggregation. Hahn M, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):815–21

Red wine–induced release of [14C]5–hydroxytryptamine from platelets of migraine patients and controls. Jarman J, et al. **Cephalalgia** 1996 Feb;16(1):41–3

Platelet serotonin in patients with analgesic–induced headache [see comments] Srikiatkhachorn A, et al. **Cephalalgia** 1996 Oct;16(6):423–6. Comment in: Cephalalgia 1996 Oct;16(6):405.

The human pharmacology of thrombin inhibition [published erratum appears in Coron Artery Dis 1997 Jan;8(1):A4] FitzGerald GA. **Coron Artery Dis** 1996 Dec;7(12):911–8 (108 ref.)

Antiplatelet effects of urokinase and their clinical implications. Torr–Brown SR, et al. **Coron Artery Dis** 1996 Jan;7(1):63–8

Polyunsaturated fatty acids and function of platelets and endothelial cells. Heemskerk JW, et al. **Curr Opin Lipidol** 1996 Feb;7(1):24–9 (40 ref.)

Effects of interleukin 6 administration on platelets and haemopoietic progenitor cells in peripheral blood. Clarke D, et al. **Cytokine** 1996 Sep;8(9):717–23

Insulin stimulates nitric oxide synthesis in human platelets and, through nitric oxide, increases platelet concentrations of both guanosine–3', 5'–cyclic monophosphate and adenosine–3', 5'–cyclic monophosphate. Trovati M, et al. **Diabetes** 1997 May;46(5):742–9

Cocaine administration enhances platelet reactivity to subendothelial components: studies in a pig model. Zurbano MJ, et al. **Eur J Clin Invest** 1997 Feb;27(2):116–20

Consumption of ginger (Zingiber officinale roscoe) does not affect ex vivo platelet thromboxane production in humans. Janssen PL, et al. **Eur J Clin Nutr** 1996 Nov;50(11):772–4

Effects of single oral doses of lysine clonixinate and acetylsalicylic acid on platelet functions in man. Pallapies D, et al. **Eur J Clin Pharmacol** 1996;49(5):351–4

Characterization of in vitro and in vivo platelet responses to thrombin and thrombin receptor–activating peptides in guinea pigs. Chiu PJ, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):129–35

ML–7 and W–7 facilitate thromboxane A2–mediated Ca2+ mobilization in rabbit platelets. Ohkubo S, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):175–83

YC–1, a nitric oxide–independent activator of soluble guanylate cyclase, inhibits platelet–rich thrombosis in mice. Teng CM, et al. **Eur J Pharmacol** 1997 Feb 12; 320(2–3):161–6

Strontium ions stimulate phosphoinositide metabolism in human blood platelets. Best LC, et al. **FEBS Lett** 1981 Nov 2;134(1):88–90

Peroxynitrite–induced tyrosine nitration and phosphorylation in human platelets. Mondoro TH, et al. **Free Radic Biol Med** 1997;22(6):1055–63

Interplay between milrinone and adenosine in the inhibition of human platelet response. Anfossi G, et al. **Gen Pharmacol** 1996 Oct;27(7):1149–54

Antiplatelet effects of R,S–(meso)–alpha, alpha'–bis[3–(N,N–diethylcarbamoyl) piperidino]–p–xylene ex vivo in the dog and in vivo in the mouse. Han G, et al. **Gen Pharmacol** 1997 Apr;28(4):617–21

Modulatory effect of 8–iso–PGE2 on platelets. Kobzar G, et al. **Gen Pharmacol** 1997 Feb;28(2):317–21

Effects of exogenous gangliosides on intracellular Ca2+ mobilization and functional responses in human platelets. Yatomi Y, et al. **Glycobiology** 1996 Apr;6(3):347–53

New thoughts on strategies for modulating platelet function through the inhibition of surface receptors. Nurden AT. **Haemostasis** 1996 Oct;26 Suppl 4:78–88 (36 ref.)

Modulating platelet function with selective thrombin inhibitors. Verstraete M. **Haemostasis** 1996 Oct;26 Suppl 4:70–7 (28 ref.)

Lack of platelet response to collagen associated with autoantibodies against glycoprotein (GP) Ia/IIa and Ib/IX leading to the discovery of SLE. Dromigny A, et al. **Hematol Cell Ther** 1996 Aug;38(4):355–7

Cyclosporine impairs the ability of human platelets to mediate vasodilation. Oskarsson HJ, et al. **Hypertension** 1997 Jun; 29(6):1314–21

Oral calcium supplementation reduces intraplatelet free calcium concentration and insulin resistance in essential hypertensive patients. Sánchez M, et al. **Hypertension** 1997 Jan;29(1 Pt 2):531–6

The effect of bradykinin and substance P on the arachidonate cascade of platelets. Gecse A, et al. **Immunopharmacology** 1996 Jun;33(1–3):167–70

Carbohydrate induced modulation of cell membrane. IV: Interaction with mucin and fucoidan totally immobilizes the human platelet membrane. Hajela K, et al. **Indian J Biochem Biophys** 1996 Aug;33(4):308–10

Biphasic, organ–specific, and strain–specific accumulation of platelets induced in mice by a lipopolysaccharide from Escherichia coli and its possible involvement in shock. Shibazaki M, et al. **Infect Immun** 1996 Dec;64(12):5290–4

Platelets of patients with peripheral arterial disease demonstrate a hypersensitive response to heparin. Reininger CB, et al. **Int Angiol** 1996 Sep;15(3):207–14

Effect of different dialysis membranes on platelet function. A tool for biocompatibility evaluation. De Sanctis LB, et al. **Int J Artif Organs** 1996 Jul;19(7):404–10

Synthesis of a new phosphoglycolipid with biological activity towards platelets. Avramopoulou V, et al. **Int J Biochem Cell Biol** 1997 May;29(5):767–74

Thrombophilic mechanisms of OCs. Comp PC. **Int J Fertil Womens Med** 1997;Suppl 1:170–6 (28 ref.)

The effects of varying dietary n–6 to n–3 fatty acid ratios on platelet reactivity, coagulation screening assays, and antithrombin III activity in dogs. Boudreaux MK, et al. **J Am Anim Hosp Assoc** 1997 May–Jun;33(3):235–43

Tyrosine phosphorylation and Syk activation are involved in thrombin–induced aggregation of epinephrine–potentiated platelets. Wang X, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):325–30

Surface adhesion molecule expression on human blood cells induced by vascular graft materials in vitro. Swartbol P, et al. **J Biomed Mater Res** 1996 Dec;32(4):669–76

Platelet–polymer interactions: morphologic and intracellular free calcium studies of individual human platelets. Waples LM, et al. **J Biomed Mater Res** 1996 Sep;32(1):65–76

Sustained antiplatelet properties of nitroglycerin during hemodynamic tolerance in rats. Booth BP, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):432–8

N–Acetylcysteine potentiates nitroglycerin–induced reversal of platelet aggregation. Chirkov YY, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):375–80

Effects of Integrelin on platelet function in flow models of arterial thrombosis. Kamat SG, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):156–63

Fosinopril reduces ADP–induced platelet aggregation in hypertensive patients. Keidar S, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):183–6

Dietary coenzyme Q10 supplementation alters platelet size and inhibits human vitronectin (CD51/CD61) receptor expression. Serebruany VL, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):16–22

Antiplatelet and antiproliferative effects of SCH 51866, a novel type 1 and type 5 phosphodiesterase inhibitor. Vemulapalli S, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):862–9

ATP is required in platelet serotonin exocytosis for protein phosphorylation and priming of secretory vesicles docked on the plasma membrane. Morimoto T, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):113–8

Inhibition of platelet monoamine oxidase type B by selegiline. Heinonen EH, et al. **J Clin Pharmacol** 1997 Jul; 37(7):597–601

Inhibition of platelet aggregation as a surrogate marker. Narjes H, et al. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):59S–64S (12 ref.)

Effects of antihypertensive therapy on platelet cytosolic calcium responses to low density lipoprotein cholesterol. Sowers JR, et al. **J Hum Hypertens** 1996 Mar;10(3):177–80

Contrasting effects of lipopolysaccharides (endotoxins) from oral black–pigmented bacteria and Enterobacteriaceae on platelets, a major source of serotonin, and on histamine–forming enzyme in mice. Endo Y, et al. **J Infect Dis** 1997 Jun;175(6):1404–12

Interleukin–2 induces increased platelet–endothelium interactions: a potential mechanism of toxicity. Lentsch AB, et al. **J Lab Clin Med** 1996 Jul;128(1):75–82

Reversal by high–density lipoprotein of the effect of oxidized low–density lipoprotein on nitric oxide synthase protein expression in human platelets. Mehta JL, et al. **J Lab Clin Med** 1996 Mar;127(3):287–95

Exogenous diacylglycerols synergize with PAF with human platelets, but inhibit PAF–induced responses of rabbit platelets. Packham MA, et al. **J Lipid Mediat Cell Signal** 1996 Dec;15(1):69–87

Von Willebrand factor restores impaired platelet thrombogenesis in copper–deficient rats. Lominadze D, et al. **J Nutr** 1997 Jul;127(7):1320–7

Lecithinization of IL–6 enhances its thrombopoietic activity in mice. Igarashi R, et al. **J Pharm Pharmacol** 1997 Jan; 49(1):113–8

In–vitro platelet responses to arachidonic acid in the rat. Rodriguez–Linares B, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):1015–20

Effects of nonanal, trans–2–nonenal and 4–hydroxy–2,3–trans–nonenal on cyclooxygenase and 12–lipoxygenase metabolism of arachidonic acid in rabbit platelets. Sakuma S, et al. **J Pharm Pharmacol** 1997 Feb; 49(2):150–3

The role of thiols in protecting against simultaneous toxicity of menadione to platelet plasma and intracellular membranes. Cho YS, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1335–40

Thrombin receptor–activating peptide releases arachidonic acid from human platelets: a comparison with thrombin and trypsin. McNicol A, et al. **J Pharmacol Exp Ther** 1997 May;281(2):861–7

Involvement of phospholipase C–gamma2 in activation of mitogen–activated protein kinase and phospholipase A2 by zooxanthellatoxin–A in rabbit platelets. Rho MC, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):496–504

Regulation of inositol 1,4,5–trisphosphate–induced calcium release by inositol 1,4,5–trisphosphate and calcium in human platelets. Eberhard M, et al. **J Recept Signal Transduct Res** 1995 Jan–Mar; 15(1–4):297–309

Effects of cocaine on human platelet aggregation in vitro. Heesch CM, et al. **J Toxicol Clin Toxicol** 1996;34(6):673–84

Inhibitory effect of EGTA on serotonin transport into rabbit blood platelets: possible involvement of the glycoprotein IIb/IIIa complex. Nishio H, et al. **Jpn J Pharmacol** 1996 Nov;72(3):255–9

A study on rat platelet responsiveness following intravenous endotoxin administration. Cicala C, et al. **Life Sci** 1997; 60(2):PL31–8

Increased formation of phosphatidylinositol–4–phosphate in human platelets stimulated with lysophosphatidic acid. Mani I, et al. **Lipids** 1996 Dec;31(12):1265–8

The effect of dietary arachidonic acid on platelet function, platelet fatty acid composition, and blood coagulation in humans. Nelson GJ, et al. **Lipids** 1997 Apr;32(4):421–5

Effects of 0–/–B–hydroxyethyl/rutoside on platelet function and thrombus formation in rat mesenteric vessels. Krupiński K, et al. **Mater Med Pol** 1995 Apr–Jun;27(2):39–42

Monocyte–platelet function and protection against cardiovascular disease. Oian P, et al. **Maturitas** 1996 May; 23 Suppl:S57–60 (14 ref.)

The effect of medroxyprogesterone acetate and clomiphene citrate on platelet function in menopausal women. Tepper R, et al. **Maturitas** 1996 May;24(1–2):51–6

Enantiomers of myo–inositol–1,3,4–trisphosphate and myo–inositol–1,4,6 –trisphosphate: stereospecific recognition by cerebellar and platelet myo–inositol–1,4,5–trisphosphate receptors. Murphy CT, et al. **Mol Pharmacol** 1996 Nov;50(5):1223–30

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Bruno JJ. **N Engl J Med** 1997 Aug 7; 337(6):422; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Cahill MR, et al. **N Engl J Med** 1997 Aug 7;337(6):422–3; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.

Thrombopoietin—clinically realized? [editorial; comment] Levin J. **N Engl J Med** 1997 Feb 6;336(6):434–6. Comment on: N Engl J Med 1997 Feb 6;336(6):404–9.

Platelet stimulating agents—off the launching pad [news] Nimer SD. **Nat Med** 1997 Feb;3(2):154–5

Peripheral markers of neurochemical effects among styrene–exposed workers. Bergamaschi E, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):753–9

Mobilized peripheral blood transplants may overtake ABMT within two years [news] **Oncology (Huntingt)** 1995 Jul; 9(7):597

Synergistic effects of erythropoietin and interleukin–6 on the in vitro proplatelet process formation of rat megakaryocytes. Tange T, et al. **Pathol Int** 1996 Dec; 46(12):968–76

In vitro effect of avarone and avarol, a quinone/hydroquinone couple of marine origin, on platelet aggregation. Belisario MA, et al. **Pharmacol Toxicol** 1996 Dec;79(6):300–4

Pretreatment with an inhibitor of mac–1 alters regional and systemic platelet function during ischemia–reperfusion in swine. Gurbel PA, et al. **Pharmacology** 1996 Aug; 53(2):79–86

Alcohol and preoperative management. Wolfort FG, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1306–9

Influence of indobufen on occlusion of arteriovenous fistulas and some platelet activity in intermittent peritoneal dialysis patients. Dmoszyńska A, et al. **Pol J Pharmacol** 1996 May–Jun;48(3):327–9

Lack of the specific influence of histamine and histamine H1, H2 and H3 receptor ligands on the serotonin uptake and release in rat blood platelets. Pawlak D, et al. **Pol J Pharmacol** 1996 Nov–Dec;48(6):615–20

P1,P4–dithio–P2,P3–monochloromethylene diadenosine 5',5'''–P1,P4–tetraphosphate: a novel antiplatelet agent. Chan SW, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):4034–9

Platelet [3H]dopamine uptake is differentially affected by neuroleptic drug treatment in schizophrenia and schizophreniform disorder. Dean B, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):45–55

Inhibition of the human platelet cyclooxygenase response by the naturally occurring phenazine derivative, 1–hydroxyphenazine. Muller M, et al. **Prostaglandins** 1995 Nov–Dec;50(5–6):301–11

Effects of the incubation of long–chain polyunsaturated fatty acids on platelet lipids and thromboxane release. Zhang T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr;56(4):259–64

Platelet serotonergic indices in major depression: up–regulation of 5–HT2A receptors unchanged by antidepressant treatment. Hrdina PD, et al. **Psychiatry Res** 1997 Feb 7;66(2–3):73–85

Typical and atypical neuroleptic drugs decrease platelet 3H–dopamine uptake in the rat. Sundram S, et al. **Psychiatry Res** 1996 Jun 1;62(3):259–63

Individual differences in changes in mood and platelet monoamine oxidase (MAO) activity during hormonal replacement therapy in menopausal women. Klaiber EL, et al. **Psychoneuroendocrinology** 1996 Oct;21(7):575–92

Serotonin–mediated increase in cytosolic [Ca++] in platelets of risperidone–treated schizophrenia patients. Ereshefsky

L, et al. **Psychopharmacol Bull** 1996;32(1):101–6

Chronic GnRH agonist administration down-regulates platelet serotonin transporter in women undergoing assisted reproductive treatment. Eyal S, et al. **Psychopharmacology (Berl)** 1996 May;125(2):141–5

Differential effects of lithium on platelet protein phosphorylation in bipolar patients and healthy subjects. Zanardi R, et al. **Psychopharmacology (Berl)** 1997 Jan; 129(1):44–7

Cobra venom cardiotoxin induces aggregation of washed rat platelets: dual effects of Ca2+. Huang SJ, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct;94(1):103–10

Does anti-parasitic treatment normalize platelets morphology in patients infested with Entamoeba histolytica? Matowicka-Karna J, et al. **Rocz Akad Med Bialymst** 1996; 41(2):258–67

Effect of defibrotide on platelet function. Ulutin ON, et al. **Semin Thromb Hemost** 1996;22 Suppl 1:21–4 (32 ref.)

Protein-tyrosine phosphorylation and p72syk activation in human platelets stimulated with collagen is dependent upon glycoprotein Ia/IIa and actin polymerization. Asazuma N, et al. **Thromb Haemost** 1996 Apr;75(4):648–54

Thrombopoietin (Mpl-ligand) and the regulation of platelet production. Cohen-Solal K, et al. **Thromb Haemost** 1997 Jul;78(1):37–41 (48 ref.)

Surface-secreted von Willebrand factor mediates aggregation of ADP-activated platelets at moderate shear stress: facilitated by GPIb but controlled by GPIIb-IIIa. Frojmovic MM, et al. **Thromb Haemost** 1997 Mar; 77(3):568–76

Activation of ADP receptors and platelet function. Gachet C, et al. **Thromb Haemost** 1997 Jul;78(1):271–5 (58 ref.)

Ionomycin-stimulated arachidonic acid release in human platelets: a role for protein kinase C and tyrosine phosphorylation. Hargreaves PG, et al. **Thromb Haemost** 1996 Aug;76(2):248–52

Pretreatment of human platelets with plasmin inhibits responses to thrombin, but potentiates responses to low concentrations of aggregating agents, including the thrombin receptor activating peptide, SFLLRN. Kinlough-Rathbone RL, et al. **Thromb Haemost** 1997 Apr; 77(4):741–7

Enhanced increases in cytosolic Ca2+ in ADP-stimulated platelets from patients with delta-storage pool deficiency--a possible indicator of interactions between granule-bound ADP and the membrane ADP receptor. Lages B, et al. **Thromb Haemost** 1997 Feb;77(2):376–82

Phosphorylation and dephosphorylation mechanisms in platelet function: a tightly regulated balance. Levy-Toledano S, et al. **Thromb Haemost** 1997 Jul; 78(1):226–33 (53 ref.)

Epinephrine augments platelet recruitment to immobilized collagen in flowing blood--evidence for a von Willebrand factor-mediated mechanism. Mustonen P, et al. **Thromb Haemost** 1996 Jan;75(1):175–81

High density lipoproteins enhance the Na+/H+ antiport in human platelets. Nofer JR, et al. **Thromb Haemost** 1996 Apr;75(4):635–41

Red wine, aspirin and platelet function [letter] Rotondo S, et al. **Thromb Haemost** 1996 Nov;76(5):818–9

p-Aminobenzoic acid, but not its metabolite p-acetamidobenzoic acid, inhibits thrombin induced thromboxane formation in human platelets in a non NSAID like manner. Barbieri B, et al. **Thromb Res** 1997 Apr 15; 86(2):127–40

Proteolytic activation of a putative receptor leading to vasoconstriction and platelet aggregation. Carbini LA, et al. **Thromb Res** 1997 Jan 1;85(1):33–44

The inhibitory effect of 2-thienyl 2'-hydroxyphenyl ketone (C85) on platelet thromboxane formation. Chou TC, et al. **Thromb Res** 1996 Oct 15;84(2):83–95

In vitro effects of rt-PA on platelet function and clot strength. D'Amico EA, et al. **Thromb Res** 1997 Mar 15; 85(6):519–22

A novel approach to inhibit the anticoagulant-induced spontaneous activation of blood platelets--effect of magnesium on platelet release reaction in whole blood. Golański J, et al. **Thromb Res** 1997 Jan 15;85(2):127–32

Platelet accumulation induced by bacterial endotoxin in rats. Itoh H, et al. **Thromb Res** 1996 Sep 15;83(6):405–19

Platelet response during prostaglandin E1-therapy in patients with non-insulin-dependent diabetes mellitus. Kritz H, et al. **Thromb Res** 1997 Jul 15;87(2):257–61

The influence of isoprostanes on ADP-induced platelet aggregation and cyclic AMP-generation in human platelets. Leitinger N, et al. **Thromb Res** 1997 May 15; 86(4):337–42

Does warfarin enhance platelet activity? Mieszczak C, et al. **Thromb Res** 1996 Nov 15;84(4):285–7

Effect of isradipine on in-vivo platelet function. O'Grady J, et al. **Thromb Res** 1997 Jun 1;86(5):363–71

Cathepsin A-like activity in thrombin-activated human platelets. Substrate specificity, pH dependence, and inhibitory profile. Ostrowska H. **Thromb Res** 1997 Jun 1; 86(5):393–404

Platelets of patients with peripheral arterial disease are hypersensitive to heparin. Reininger CB, et al. **Thromb Res** 1996 Mar 15;81(6):641–9

Aggregated-disaggregated, refractory platelets retain sensitivity to ristocetin. White JG, et al. **Thromb Res** 1996 Nov 15;84(4):253–66

Glycocalicin derived peptides inhibit von Willebrand factor binding to platelets. Williams SB, et al. **Thromb Res** 1997 Jun 1;86(5):417–21

Intralipid rapidly attenuates the agonist-induced activation of rat platelets in vitro. Zhou L, et al. **Thromb Res** 1997 Jan 1;85(1):53–62

Chelerythrine inhibits the secretory response of human blood platelets without specifically inhibiting protein kinase C. Lane T, et al. **Tokai J Exp Clin Med** 1996 Jun;21(2):61–7

Metabolism and cytotoxicity of menadione and its metabolite in rat platelets. Chung JH, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):378–85

Toxicological effects of beryllium on platelets and vascular endothelium. Togna G, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):262–7

Effect of ammodytin L from the venom of Vipera ammodytes on Xenopus laevis differentiated muscle fibres and regenerating limbs. Bernardini S, et al. **Toxicon** 1996 Jan; 34(1):81–90

Glutathione S-transferase-rhodostomin fusion protein inhibits platelet aggregation and induces platelet shape change. Chang HH, et al. **Toxicon** 1997 Feb;35(2):195–204

Improved in-vitro quality of platelet concentrates stored in a dextrose-free synthetic medium. Farrugia A, et al. **Transfus Med** 1991 Mar;1(1):31–8

Use of prostaglandin E1 during preparation of platelet concentrates. Hawker RJ, et al. **Transfus Med** 1996 Sep; 6(3):249–54

More on the comparison of Plasma-Lyte A and PAS 2 as platelet additive solutions [letter; comment] Turner VS, et al. **Transfusion** 1996 Nov-Dec;36(11–12):1033–4. Comment on: Transfusion 1995 Jan;35(1):50–3.

Modulation of bovine platelet function by C-reactive protein. Cheryk LA, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1–2):27–36

Thrombopoietin and platelet development. Kaushansky K. **West J Med** 1996 Mar;164(3):209–11 (50 ref.)

[Antiplatelet properties of nitrogen monoxide] Adrie C. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1527–32 (55 ref.) (Eng. Abstr.) **(Fre)**

[The in vitro effect of alpha-2 agonists on thrombocyte function and density of thrombocyte alpha-2 receptors] Heesen M, et al. **Anaesthesist** 1996 Mar;45(3):255–8 (Eng. Abstr.) **(Ger)**

[Platelet aggregate formation in peripheral blood anti-coagulated with sodium heparin is facilitated by mixing] Shimasaki AK, et al. **Rinsho Ketsueki** 1997 Apr; 38(4):323–30 (Eng. Abstr.) **(Jpn)**

[The effect of human recombinant erythropoietin on distribution of membrane phospholipids in blood platelets of patients with uremia treated with repeated hemodialysis] Krawczyk W, et al. **Pol Arch Med Wewn** 1997 Feb; 97(2):120–5 (Eng. Abstr.) **(Pol)**

[The influence of recombinant human erythropoietin on platelet phospholipid fatty acid composition in patients on long term hemodialysis] Krawczyk W, et al. **Pol Merkuriusz Lek** 1996 Dec;1(6):394–7 (Eng. Abstr.) **(Pol)**

[Effect of treating glomerulonephritis with omega 3 fatty acids for selected parameters of hemostasis, blood platelet function and lipid metabolism] Małyszko JS, et al. **Przegl Lek** 1996;53(8):600–3 (Eng. Abstr.) **(Pol)**

[Correlation of inhibition of thrombocyte light chain myosin phosphorylation and thrombocyte aggregation by the new calcium and calmodulin antagonist] Aleksanian AR, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):40–2 **(Rus)**

[Human thrombocytes as a test system for the study of nongenomic effects of glucocorticoid hormones] Sergeev PV, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):285–7 **(Rus)**

[Early stages in mechanisms of glucocorticoids action on human thrombocytes: effect of hydrocortisone on intracellular cAMP and Ca2+] Sergeev PV, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):663–5 **(Rus)**

[Modeling disorders of platelet hemostasis and correction of them with an analog of vasopressin DGAVP] Golubeva MG, et al. **Dokl Akad Nauk** 1996 May;348(2):270–1 **(Rus)**

ENZYMOLOGY

Suicidality, circadian activity rhythms and platelet serotonergic measures in patients with recurrent suicidal behaviour. Verkes RJ, et al. **Acta Psychiatr Scand** 1996 Jan;93(1):27–34

Platelet-type arachidonate 12-lipoxygenase. Nakamura M, et al. **Adv Exp Med Biol** 1996;416:355–9 (14 ref.)

Platelet monoamine oxidase-B activity in alcoholics with lowered dopamine D2 receptor activity [letter] Farren CK, et al. **Alcohol Alcohol** 1996 May;31(3):307–8

Effect of administered ethanol on protein kinase C in human platelets. Deitrich RA, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1503–6

Platelet adenylyl cyclase activity in alcoholics and subtypes of alcoholics. WHO/ISBRA Study Clinical Centers. Parsian A, et al. **Alcohol Clin Exp Res** 1996 Jun; 20(4):745–51

The 1996 James B. Isaacson Award Lecture. Platelet MAO activity in type 1/type 2 alcoholics. von Knorring L. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):224A–230A (82 ref.)

Human adenylyl cyclase type 7 contains polymorphic repeats in the 3' untranslated region: investigations of association with alcoholism. Hellevuo K, et al. **Am J Med Genet** 1997 Feb 21;74(1):95–8

Signaling responses to alkyllysophosphatidic acid: the activation of phospholipases A2 and C and protein tyrosine phosphorylation in human platelets. Svetlov SI, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):59–68

Protonophoric activity of NADH coenzyme Q reductase and ATP synthase in coupled submitochondrial particles from horse platelets. Baracca A, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):469–73

Integrin-dependent tyrosine phoshorylation and cytoskeletal translocation of Tec in thrombin-activated platelets. Laffargue M, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):247–51

Expression and mutagenesis of the catalytic domain of cGMP-inhibited phosphodiesterase (PDE3) cloned from human platelets. Tang KM, et al. **Biochem J** 1997 Apr 1; 323 (Pt 1):217–24

Free radical-induced inhibition of ATP diphosphohydrolase activity (EC 3.6.1.5) from rat blood platelets. Frassetto SS, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):161–8

Decrease in platelet, erythrocyte and lymphocyte acetylcholinesterase activities due to the presence of protease inhibitors in the storage buffer. Martín-Valmaseda EM, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):83–91

Pharmacological modulation of human platelet leukotriene C4-synthase [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1946] Sala A, et al. **Biochem Pharmacol** 1997 Mar 21;53(6):905–8

Time-dependent translocation of the alpha and beta 1 isotypes of protein kinase C in human platelets in response to phorbol ester stimulation. Kew JM, et al. **Biochem Soc Trans** 1997 Feb;25(1):44S

Lipid mimetics as inhibitors of human platelet phospholipase A2. Noula C, et al. **Biochem Soc Trans** 1996 May;24(2):303S

The platelet-activating factor acetylhydrolase of mouse platelets. Karpouza AP, et al. **Biochim Biophys Acta** 1997 Jan 14;1323(1):12–22

Inhibition by ajoene of protein tyrosine phosphatase activity in human platelets. Villar R, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):233–40

Expression and intracellular localization of the human N-acetylmuramyl-L-alanine amidase, a bacterial cell wall-degrading enzyme. Hoijer MA, et al. **Blood** 1997 Aug 1;90(3):1246–54

The Src family kinases, Fgr, Fyn, Lck, and Lyn, colocalize with coated membranes in platelets. Stenberg PE, et al. **Blood** 1997 Apr 1;89(7):2384–93

Analysis of effects of adrenaline and collagen on the activity of prostaglandin E1-stimulated human platelet adenylyl cyclase. Juška A. **Blood Coagul Fibrinolysis** 1996 Mar; 7(2):199–201

Immunolocalization of the multi-sarco/endoplasmic reticulum Ca2+ ATPase system in human platelets. Kovàcs T, et al. **Br J Haematol** 1997 Apr;97(1):192–203

Oxidized low density lipoprotein inhibits platelet plasma membrane Ca(2+)-ATPase. Zhao B, et al. **Cell Calcium** 1996 May;19(5):453–8

Bacterial aspartate kinase-like activity in human platelet. Arenas-Díaz G, et al. **Cell Mol Biol Res** 1995;41(5):461–5

Characterization of the isoenzymes of cyclic nucleotide phosphodiesterase in human platelets and the effects of E4021. Ito M, et al. **Cell Signal** 1996 Dec;8(8):575–81

Reduced platelet glutathione peroxidase activity and serum selenium concentration in atopic asthmatic patients. Misso NL, et al. **Clin Exp Allergy** 1996 Jul;26(7):838–47

Characterization of phosphotyrosine phosphatase activity in sheep platelets: amphiphilic and hydrophilic forms. Hernández-Hernández A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jul; 117(3):437–44

Electrophoretic separation of multiprotein complexes from blood platelets and cell lines: technique for the analysis of diseases with defects in oxidative phosphorylation. Schägger H, et al. **Electrophoresis** 1996 Apr;17(4):709–14

Translocation of the Csk homologous kinase (Chk/Hyl) controls activity of CD36-anchored Lyn tyrosine kinase in thrombin-stimulated platelets. Hirao A, et al. **EMBO J** 1997 May 1;16(9):2342–51

Phosphorylation and activation of cytosolic phospholipase A2 by 38-kDa mitogen-activated protein kinase in collagen-stimulated human platelets. Börsch-Haubold AG, et al. **Eur J Biochem** 1997 May 1;245(3):751–9

Age and sex related alterations in serum and platelet monoamine oxidase. Veral A, et al. **Eur J Clin Chem Clin Biochem** 1997 Apr;35(4):265–8

Evidence for a NO synthase in porcine platelets which is stimulated during activation/aggregation. Berkels R, et al. **Eur J Haematol** 1997 May;58(5):307–13

Activation of human platelet protein kinase C-beta 2 in vivo in response to acute hyperglycemia. Pirags V, et al. **Exp Clin Endocrinol Diabetes** 1996;104(6):431–40

Protein tyrosine phosphatase activity modulation by endothelin-1 in rabbit platelets. Catalán RE, et al. **FEBS Lett** 1997 Jan 6;400(3):280–4

Association of the protein tyrosine phosphatase PTP1C with the protein tyrosine kinase c-Src in human platelets. Falet H, et al. **FEBS Lett** 1996 Apr 1;383(3):165–9

Synthesis of lipidic amino acid and dipeptide inhibitors of human platelet phospholipase A2. Kokotos G, et al. **Int J Pept Protein Res** 1996 Aug;48(2):160–6

Platelet monoamine oxidase molecular activity in demented patients. Bongioanni P, et al. **Ital J Neurol Sci** 1997 Jun;

18(3):151–6
The relationship between airway hyperreactivity (AHR) and sodium, potassium adenosine triphosphatase (Na+,K+ ATPase) enzyme inhibition. Gentile DA, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):367–73
Sphingosine enhances phosphatidylinositol 4–kinase activity in rabbit platelets. Hashizume T, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):61–5
Phosphopleckstrin inhibits gbetagamma–activable platelet phosphatidylinositol–4,5–bisphosphate 3–kinase. Abrams CS, et al. **J Biol Chem** 1996 Oct 11;271(41):25192–7
Regulation of platelet plasma membrane Ca2+–ATPase by cAMP–dependent and tyrosine phosphorylation. Dean WL, et al. **J Biol Chem** 1997 Jun 13;272(24):15113–9
Evidence for cAMP–dependent platelet ectoprotein kinase activity that phosphorylates platelet glycoprotein IV (CD36). Hatmi M, et al. **J Biol Chem** 1996 Oct 4; 271(40):24776–80
The alpha2beta1 integrin is a necessary co–receptor for collagen–induced activation of Syk and the subsequent phosphorylation of phospholipase Cgamma2 in platelets. Keely PJ, et al. **J Biol Chem** 1996 Oct 25;271(43):26668–76
Negative regulation of mitogen–activated protein kinase activation by integrin alphaIIbbeta3 in platelets. Nadal F, et al. **J Biol Chem** 1997 Sep 5;272(36):22381–4
Tyrosine phosphorylation of the novel protein–tyrosine kinase RAFTK during an early phase of platelet activation by an integrin glycoprotein IIb–IIIa–independent mechanism. Raja S, et al. **J Biol Chem** 1997 Apr 18; 272(16):10941–7
Serine phospholipid–specific phospholipase A that is secreted from activated platelets. A new member of the lipase family. Sato T, et al. **J Biol Chem** 1997 Jan 24;272(4):2192–8
Distinct substrate specificities and functional roles for the 78– and 76–kDa forms of mu–calpain in human platelets. Schoenwaelder SM, et al. **J Biol Chem** 1997 Oct 3; 272(40):24876–84
Purification and characterization of Gbetagamma–responsive phosphoinositide 3–kinases from pig platelet cytosol. Tang X, et al. **J Biol Chem** 1997 May 30;272(22):14193–9
What is the clinical significance of an elevated platelet MAO level? Pies RW. **J Clin Psychopharmacol** 1996 Dec; 16(6):472–3
Downregulation of nitric oxide synthase activity in human platelets by nitroglycerin and authentic nitric oxide. Chen LY, et al. **J Investig Med** 1997 Feb;45(2):69–74
Transcellular metabolism of leukotriene A4 by rabbit blood cells: lack of relevant LTC4–synthase activity in rabbit platelets. Sala A, et al. **J Lipid Res** 1997 Apr;38(4):627–33
Evidence and nature of a novel thiol–oxidase in human platelets. Kaul D, et al. **Mol Cell Biochem** 1996 Jun 7; 159(1):81–4
Platelet mitochondrial respiratory chain function in Parkinson's disease. Blake CI, et al. **Mov Disord** 1997 Jan; 12(1):3–8
Monoamine oxidase molecular activity in platelets of parkinsonian and demented patients. Bongioanni P, et al. **Neurodegeneration** 1996 Dec;5(4):351–7
Thrombin–induced activation of the novel 33–kDa serine/threonine kinase in human platelets. Ido M, et al. **Pol J Pharmacol** 1996 Jan–Feb;48(1):105–7
Inhibition of human platelet cathepsin A by non–steroidal anti–inflammatory drugs––in vitro study. Ostrowska H. **Pol J Pharmacol** 1996 Jan–Feb;48(1):113–6
Platelet sulfotransferase in different psychiatric disorders. Marazziti D, et al. **Psychiatry Res** 1996 Nov 15;65(2):73–8
Platelet monoamine oxidase activity in patients with winter seasonal affective disorder. Reichborn–Kjennerud T, et al. **Psychiatry Res** 1996 Jun 1;62(3):273–80
Platelet monoamine oxidase activity as a biological marker in a Swedish forensic psychiatric population. Stålenheim EG, et al. **Psychiatry Res** 1997 Mar 24;69(2–3):79–87
The value of the ultrastructural pattern of myeloperoxidase (MPO), platelet peroxidase (PPO) and acid phosphatase in identification of blastic cell types during acute transformation of chronic myeloproliferative disorders (cMPD). Moldoveanu E, et al. **Rom J Morphol Embryol** 1996 Jul–Dec;42(3–4):179–91
Distribution and activation of cAMP– and cGMP–dependent protein kinases in highly purified human platelet plasma and intracellular membranes. el–Daher SS, et al. **Thromb Haemost** 1996 Dec;76(6):1063–71
Non–receptor protein tyrosine kinases and phosphatases in human platelets. Jackson SP, et al. **Thromb Haemost** 1996 Nov;76(5):640–50 (151 ref.)
Qualitative platelet 12–lipoxygenase abnormality in a patient with essential thrombocythemia. Tomo K, et al. **Thromb Haemost** 1997 Feb;77(2):294–7
Identification of the NO synthase isoforms expressed in human neutrophil granulocytes, megakaryocytes and platelets. Wallerath T, et al. **Thromb Haemost** 1997 Jan; 77(1):163–7
Current status of platelet NO synthases. Berkels R, et al. **Thromb Res** 1997 Jul 1;87(1):51–5 (30 ref.)
The differences in Ca(2+)–sensitivity of protein kinase C in platelets from Wistar Kyoto rat and stroke–prone spontaneously hypertensive rat. Ikeda M, et al. **Thromb Res** 1996 Jun 1;82(5):417–27
Cathepsin A–like activity in thrombin–activated human platelets. Substrate specificity, pH dependence, and inhibitory profile. Ostrowska H. **Thromb Res** 1997 Jun 1; 86(5):393–404
Dietary modulation of human platelet phenolsulphotransferase activity. Harris RM, et al. **Xenobiotica** 1996 Dec;26(12):1241–7
[Blood platelets as one hemostatic indicator in patients with bronchial asthma] Rybacka–Chabros B, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 1:59–62 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Comparative study of three methods to detect free plasma antiplatelet antibodies. Gonzalez–Conejero R, et al. **Acta Haematol** 1996;96(3):135–9
Platelets and inflammation. Klinger MH. **Anat Embryol (Berl)** 1997 Jul;196(1):1–11 (135 ref.)
Megakaryocytes and platelets in immune thrombocytopenic purpura. Wang ZY, et al. **Baillieres Clin Haematol** 1997 Feb;10(1):89–107 (80 ref.)
Recipient humoral immunity against leukoreduced allogeneic platelets is suppressed by aminoguanidine, a selective inhibitor of inducible nitric oxide synthase. Bang A, et al. **Blood** 1996 Oct 15;88(8):2959–66
Alloimmunization to platelets in heavily transfused patients with sickle cell disease. Friedman DF, et al. **Blood** 1996 Oct 15;88(8):3216–22
Inhibition of binding of anti–PLA1 antibodies to platelets with monoclonal antibody LK–4. Evidence for multiple PLA1 receptor sites on platelet GPIIIa. Liu LX, et al. **Blood** 1996 Nov 1;88(9):3601–7
HPA–10w(b) (La(a)): genetic determination of a new platelet–specific alloantigen on glycoprotein IIIa and its expression in COS–7 cells. Peyruchaud O, et al. **Blood** 1997 Apr 1;89(7):2422–8
Platelet antibody testing in idiopathic thrombocytopenic purpura [letter] Raife TJ, et al. **Blood** 1997 Feb 1; 89(3):1112–4
International study to compare antigen–specific methods used for the measurement of antiplatelet autoantibodies. Berchtold P, et al. **Br J Haematol** 1997 Mar;96(3):477–83
Quantitation of platelet–specific autoantibodies in platelet eluates of ITP patients measured by a novel ELISA using the purified glycoprotein complexes GPIIb/IIIa and GPIb/IX as antigens. Hurlimann–Forster M, et al. **Br J Haematol** 1997 Aug;98(2):328–35
Specificities of anti–platelet antibodies in multitransfused patients with haemato–oncological disorders. Kurz M, et al. **Br J Haematol** 1996 Dec;95(3):564–9
Detection of drug–dependent, platelet–reactive antibodies by solid–phase red cell adherence assays. Leach MF, et al. **Br J Haematol** 1997 Jun;97(4):755–61
Anti–platelet antibodies in patients with systemic lupus erythematosus and the primary antiphospholipid antibody syndrome: their relationship with the observed thrombocytopenia. Macchi L, et al. **Br J Haematol** 1997 Aug;98(2):336–41
Generation and analysis of an IgG anti–platelet autoantibody reveals unusual molecular features. Olee T, et al. **Br J Haematol** 1997 Mar;96(4):836–45
Lupus anticoagulants: strong association with the major histocompatibility complex class II and platelet antibodies. Panzer S, et al. **Br J Haematol** 1997 Aug;98(2):342–5
Characterization of platelet–reactive antibodies in children with varicella–associated acute immune thrombocytopenic purpura (ITP). Wright JF, et al. **Br J Haematol** 1996 Oct; 95(1):145–52
Prevalence of heparin–associated antibodies without thrombosis in patients undergoing cardiopulmonary bypass surgery. Bauer TL, et al. **Circulation** 1997 Mar 4; 95(5):1242–6
Platelet antibodies. Pulkrabek SM. **Clin Lab Med** 1996 Dec; 16(4):817–35 (51 ref.)
Cytokine mRNA expression in human platelets and a megakaryocytic cell line and cytokine modulation of platelet function. Soslau G, et al. **Cytokine** 1997 Jun; 9(6):405–11
Flow cytometric detection of intracellular platelet antigens. Sedlmayr P, et al. **Cytometry** 1996 Apr 1;23(4):284–9
Chemiluminescent enhanced CD47 detection on Western blotting. Yuan FF, et al. **Electrophoresis** 1996 Jan; 17(1):219–20
The platelet antigens CD9, CD42 and integrin alpha IIb beta IIIa can be topographically associated and transduce functionally similar signals. Slupsky JR, et al. **Eur J Biochem** 1997 Feb 15;244(1):168–75
Localization of megakaryocytes in normal mice and following administration of platelet antiserum, 5–fluorouracil, or radiostrontium: evidence for the site of platelet production. Davis RE, et al. **Exp Hematol** 1997 Jul;25(7):638–48
Circulating antiplatelet antibody specificity in children with immune thrombocytopenic purpura at onset [letter] Biglino P, et al. **Haematologica** 1997 Jan–Feb;82(1):127
Target platelet antigens of autoantibodies in patients with primary biliary cirrhosis. Feistauer SM, et al. **Hepatology** 1997 Jun;25(6):1343–5
A monoclonal antibody that recognizes a 110–kDa protein primarily located on the platelet alpha–granule, which is translocated to and upgraded on the surface membrane of platelets upon activation. Lian EC, et al. **Hybridoma** 1996 Aug;15(4):271–8
Platelet aggregation and platelet histamine release by immunological stimulation in atopic patients: modulation by nitric oxide. Masini E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S81–2
Thrombocytopenia as a sensitive marker of immunologic activity in a patient with autoimmune chronic active hepatitis. Persico M, et al. **Ital J Gastroenterol** 1996 Jul–Aug;28(6):340–2
Racial differences in the availability of human leukocyte antigen–matched platelets. King KE, et al. **J Clin Apheresis** 1996;11(2):71–7
Antiplatelet glycoprotein autoantibodies in patients with autoimmune diseases with and without thrombocytopenia. Cordiano I, et al. **J Clin Immunol** 1996 Nov;16(6):340–7
Platelet–associated immunoglobulin G, thrombocytopenia and response to interferon treatment in chronic hepatitis C [letter; comment] Taliani G, et al. **J Hepatol** 1996 Dec; 25(6):999. Comment on: J Hepatol 1996 Feb;24(2):135–40.
Inhibition of human neutrophil apoptosis by platelets. Andonegui G, et al. **J Immunol** 1997 Apr 1;158(7):3372–7
Delayed–type hypersensitivity in mast cell–deficient mice: dependence on platelets for expression of contact sensitivity. Geba GP, et al. **J Immunol** 1996 Jul 15; 157(2):557–65
Human platelets can initiate T cell–dependent contact sensitivity through local serotonin release mediated by IgE antibodies. Matsuda H, et al. **J Immunol** 1997 Mar 15; 158(6):2891–7
Adverse drug reaction to rifampin: a case with long lasting antiplatelet antibodies. Tricerri A, et al. **Panminerva Med** 1997 Mar;39(1):64–6
Demonstration of a novel circulating anti–prostacyclin receptor antibody. Kahn NN, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8779–82
GPIIIa–(49–66) is a major pathophysiologically relevant antigenic determinant for anti–platelet GPIIIa of HIV–1–related immunologic thrombocytopenia. Nardi MA, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8; 94(14):7589–94
Visualization of activation–dependent epitopes on glycoprotein IIb–IIIa complexes of platelets stimulated by thrombin: immunogold staining of ultrathin sections. Humbert M, et al. **Semin Thromb Hemost** 1996;22(3):279–88
Naturally occurring IgG autoantibodies to platelet cytoskeleton tropomyosin. Hou M, et al. **Thromb Haemost** 1996 Apr;75(4):642–7
A novel regulatory epitope defined by a murine monoclonal antibody to the platelet GPIIb–IIIa complex (alpha IIb beta 3 integrin). Tokuhira M, et al. **Thromb Haemost** 1996 Dec; 76(6):1038–46
Flow cytometric analysis of coronary stent–induced alterations of platelet antigens in an in vitro model. Gutensohn K, et al. **Thromb Res** 1997 Apr 1;86(1):49–56
Characterization of the porcine homologue to human platelet glycoprotein IIb–IIIa (CD41/CD61) by a monoclonal antibody. Pérez de la Lastra JM, et al. **Tissue Antigens** 1997 Jun;49(6):588–94
A monoclonal antibody (SZ21) specific for platelet GPIIIa distinguishes P1A1 from P1A2. Weiss EJ, et al. **Tissue Antigens** 1995 Nov;46(5):374–81
Evaluation of a solid phase red cell adherence technique for platelet antibody screening. Lown JA, et al. **Transfus Med** 1991 Sep;1(3):163–7
In pursuit of enigmatic platelet antibodies––anti–HPA–2b and anti–HPA–3a [letter] Minchinton RM, et al. **Transfus Med** 1996 Sep;6(3):289–91
Frequency and specificity of platelet–specific alloantibodies in HLA–immunized haematologic–oncologic patients. Schnaidt M, et al. **Transfus Med** 1996 Jun;6(2):111–4
The treatment of autoimmune thrombocytopaenic purpura with anti–D immunoglobulin: similar platelet responses in homozygous and heterozygous Rh(D) positive patients. Smith NA, et al. **Transfus Med** 1991 Sep;1(3):183–5
A simple and rapid competitive enzyme–linked immunosorbent assay to identify HPA–1a (PlA1)–negative donor platelet units. Denomme G, et al. **Transfusion** 1996 Sep;36(9):805–8
Kinetics of serum antiplatelet antibodies in experimental acute canine ehrlichiosis. Harrus S, et al. **Vet Immunol Immunopathol** 1996 May;51(1–2):13–20
Biochemical characterization of antigens detected with anti–platelet monoclonal antibodies. Mateo A, et al. **Vet Immunol Immunopathol** 1996 Aug;52(4):363–70
Separation of carp (Cyprinus carpio L.) thrombocytes by using a monoclonal antibody, and their aggregation by collagen. Nakayasu C, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):337–46
Two monoclonal antibodies from the platelet panel recognize sheep plasma fibrinogen. Pérez de la Lastra JM, et al. **Vet Immunol Immunopathol** 1996 Aug;52(4):371–5
Immunohistochemical reactivity of anti–platelet monoclonal antibodies. Simon M, et al. **Vet Immunol Immunopathol** 1996 Aug;52(4):377–82
Platelet antibody detection in pediatric immune thrombocytopenic purpura: evaluation of three screening methods. Biglino P, et al. **Vox Sang** 1997;72(4):242–6
Interaction of platelet fc and complement receptors with circulating immune complexes involving the AB0 system. Heal JM, et al. **Vox Sang** 1996;71(4):205–11
Thrombocytopenia induced by vancomycin–dependent platelet antibody. Mizon P, et al. **Vox Sang** 1997;73(1):49–51
Human monoclonal Fab fragments recovered from a combinatorial library bind specifically to the platelet HPA–1a alloantigen on glycoprotein IIb–IIIa. Proulx C, et al. **Vox Sang** 1997;72(1):52–60

Platelet alloimmunization after transfusion. A prospective study in 117 heart surgery patients. Taaning E, et al. **Vox Sang** 1997;72(4):238–41

[Evaluation of sensitivity and specificity of confirmatory assays for lupus anticoagulant (LA) detection] Imoto K, et al. **Rinsho Byori** 1996 Aug;44(8):797–801 (Eng. Abstr.) **(Jpn)**

[Phagocytic activity of blood platelets in patients infected with Giardia intestinalis] Matowicka-Karna J, et al. **Przegl Lek** 1996;53(11):785–7 (Eng. Abstr.) **(Pol)**

[Autoantibodies against platelets in thrombocytopenias in children] Anfimova OM, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):636–9 **(Rus)**

[Isolation of cytotoxic proteins from human platelets] Golubeva TS, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):183–5 **(Rus)**

[Cytotoxic activity of murine thrombocytes] Tugus AR, et al. **Biull Eksp Biol Med** 1997 May;123(5):572–5 **(Rus)**

[Cytotoxic activity of platelets and peripheral blood mononuclear cells from oncology patients and healthy donors] Tuguz AR, et al. **Biull Eksp Biol Med** 1996 Feb; 121(2):192–5 **(Rus)**

[Electro-optic method of recording antigen-antibody interactions in detection of antiplatelet antibodies in hemorrhagic thrombocytopathies] Sirota AI, et al. **Klin Lab Diagn** 1993 May-Jun;(3):50–4 (Eng. Abstr.) **(Rus)**

[The role of the thrombocytic cationic protein (beta-lysin) in anti-infectious protection] Bukharin OV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):3–6 (Eng. Abstr.) **(Rus)**

METABOLISM

The levels of glycosphingolipids, ceramides, sialic acid and glycogen are changed in plasma membranes of rat platelets harvested during recovery from immune-mediated thrombocytopenia. Zdebska E, et al. **Acta Biochim Pol** 1996;43(3):547–55

Platelet taurine concentration and uptake in the Brattleboro diabetes insipidus rat. Nieminen ML, et al. **Acta Med Okayama** 1996 Aug;50(4):203–10

Platelet serotonin transporter in coeliac disease. Chiaravalloti G, et al. **Acta Paediatr** 1997 Jul;86(7):696–9

Taurine and diabetes. Humans and experimental models. Franconi F, et al. **Adv Exp Med Biol** 1996;403:579–82

Measurement of in vitro P-selectin expression by flow cytometry. Kennedy SD, et al. **Am J Clin Pathol** 1997 Jan; 107(1):99–104

Platelet microparticles and calcium homeostasis in acute coronary ischemias. Katopodis JN, et al. **Am J Hematol** 1997 Feb;54(2):95–101

Differences between platelet phosphoinositide metabolism stimulated by thrombin or SFLLRN are not accounted for by interaction of thrombin with glycoprotein Ib. Vickers JD, et al. **Am J Hematol** 1997 Apr;54(4):288–95

Hypertension does not affect intracellular calcium uptake in human platelets. Eberhard M, et al. **Am J Hypertens** 1996 Feb;9(2):137–43

Treatment of non-insulin-dependent diabetic hypertensive patients with Ca2+ channel blockers is associated with increased platelet sensitivity to insulin. Touyz RM, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1214–21

Platelet calcium handling is different in rats with salt-dependent and spontaneous forms of genetic hypertension. Zicha J, et al. **Am J Hypertens** 1996 Aug; 9(8):812–8

Activation of human platelets by protein kinase C antibody: role for surface phosphorylation in homeostasis. Babinska A, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2134–44

Stimulation of megakaryocyte and platelet production by a single dose of recombinant human thrombopoietin in patients with cancer [see comments] Vadhan-Raj S, et al. **Ann Intern Med** 1997 May 1;126(9):673–81. Comment in: Ann Intern Med 1997 May 1;126(9):731–3.

Effect of granulocyte colony stimulating factor on pig blood platelets treated with cisplatin in vitro. Olas B, et al. **Anticancer Drugs** 1997 Feb;8(2):204–9

HBO and the uptake and retention of [125I] MIBG in human platelets and two neuroendocrine cell lines. Tytgat GA, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1209–12

Short-term rebound anxiolytic effects and long-term changes in platelet benzodiazepine binding after pentylenetetrazole-kindling in two strains of rat. File SE, et al. **Anxiety** 1996;2(3):109–16

Distribution of adhesion molecules on HeLa cells, platelets and endothelium in an in vitro model mimicking the early phase of metastasis. An immunogold electron microscopic study. Klementsen B, et al. **APMIS** 1997 Jul;105(7):546–58

Mechanisms involved in the early interaction between HeLa cells, platelets and endothelial cells in vitro under the influence of thrombin. Effects of acetylsalicylic acid and Na-salicylate. Klementsen B, et al. **APMIS** 1997 May; 105(5):391–401

Stimulation of calcium influx and platelet activation by canatoxin: methoxyverapamil inhibition and downregulation by cGMP. Ghazaleh FA, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):362–7

Abnormal pattern of platelet APP isoforms in Alzheimer disease and Down syndrome. Di Luca M, et al. **Arch Neurol** 1996 Nov;53(11):1162–6

Altered amyloid protein processing in platelets of patients with Alzheimer disease. Rosenberg RN, et al. **Arch Neurol** 1997 Feb;54(2):139–44

High concentrations of active plasminogen activator inhibitor-1 in porcine coronary artery thrombi. Fay WP, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct; 16(10):1277–84

Defective thrombin-induced calcium changes and aggregation of Bernard-Soulier platelets are not associated with deficient moderate-affinity receptors. McNicol A, et al. **Arterioscler Thromb Vasc Biol** 1996 May;16(5):628–32

Platelet integrin alpha IIb beta 3 (GPIIb-IIIa) is not implicated in the binding of LDL to intact resting platelets. Pedreño J, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan; 17(1):156–63

Intracellular ionized calcium ([Ca++]i) mobilization in platelets from rats receiving atherogenic lipids. Modulation by nifedipine. Saladino CF, et al. **Artery** 1996;22(2):80–92

Arachidonic acid of platelet phospholipids is decreased after extracorporeal removal of plasma low density lipoproteins in patients with familial hypercholesterolemia. Bräutigam R, et al. **Atherosclerosis** 1997 May;131(1):97–106

The influence of antioxidant nutrients on platelet function in healthy volunteers. Calzada C, et al. **Atherosclerosis** 1997 Jan 3;128(1):97–105

Pro-thrombotic effects of a folic acid deficient diet in rat platelets and macrophages related to elevated homocysteine and decreased n-3 polyunsaturated fatty acids. Durand P, et al. **Atherosclerosis** 1996 Apr 5;121(2):231–43

Enhanced platelet thromboxane synthesis and reduced macrophage-dependent fibrinolytic activity related to oxidative stress in oral contraceptive-treated female rats. Durand P, et al. **Atherosclerosis** 1996 Apr 5;121(2):205–16

Reduced platelet serotonin content and release in familial hypercholesterolaemia. Smith CC, et al. **Atherosclerosis** 1997 Apr;130(1-2):87–92

The significance and distinct interactions of various growth factors in physiologic and pathologic megakaryocytopoiesis/thrombocytopoiesis [letter] Haznedaroglu IC, et al. **Aust N Z J Med** 1997 Apr; 27(2):191–2

Tantalum stents induce expression of GMP140 and GP53 on platelets after contact in an in vitro model. Gutensohn K, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:61–5

Subcellular localization of alpha-subunits of trimeric G-proteins in human platelets. Giesberts AN, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):439–44

Affinity modulation in platelet alpha 2 beta 1 following ligand binding. Gofer-Dadosh N, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):724–7

N,N-dimethylsphingosine phosphorylation in human platelets. Yatomi Y, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):848–51

Arachidonic acid activates a proton conductance pathway and the Na+/H+ exchanger in platelets. Cavallini L, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):567–74

The peptide LSARLAF causes platelet secretion and aggregation by directly activating the integrin alphaIIbbeta3. Derrick JM, et al. **Biochem J** 1997 Jul 15; 325 (Pt 2):309–13

Activation of cGMP-stimulated phosphodiesterase by nitroprusside limits cAMP accumulation in human platelets: effects on platelet aggregation. Dickinson NT, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):371–7

Internalization and down-regulation of the prostacyclin receptor in human platelets. Giovanazzi S, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):71–7

Specificity of G alpha q and G alpha 11 gene expression in platelets and erythrocytes. Expressions of cellular differentiation and species differences. Johnson GJ, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1023–31

Ras activation in platelets after stimulation of the thrombin receptor, thromboxane A2 receptor or protein kinase C. Shock DD, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):525–30

Agonist-regulated L-arginine uptake in human platelets. Evidence against intracellular utilization of the amino acid. Vasta V, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):911–9

Molecular cloning and characterization of rab27a and rab27b, novel human rab proteins shared by melanocytes and platelets. Chen D, et al. **Biochem Mol Med** 1997 Feb; 60(1):27–37

Fish oil fatty acids and human platelets: dose-dependent decrease in dienoic and increase in trienoic thromboxane generation. Krämer HJ, et al. **Biochem Pharmacol** 1996 Oct 25;52(8):1211–7

Effects of fatty acids on human platelet glutathione peroxidase: possible role of oxidative stress [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1945] Lemaitre D, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):479–86

Brain-derived neurotrophic factor in human platelets. Pliego-Rivero FB, et al. **Biochem Pharmacol** 1997 Jul 1; 54(1):207–9

Effect of membrane-permeable sulfhydryl reagents and depletion of glutathione on calcium mobilisation in human platelets. van Gorp RM, et al. **Biochem Pharmacol** 1997 May 15;53(10):1533–42

Annexin V inhibition of factor IXa-catalyzed factor X activation on human platelets and on negatively-charged phospholipid vesicles. London F, et al. **Biochemistry** 1996 Dec 24;35(51):16886–97

The effect of BCECF on intracellular pH of human platelets. Aharonovitz O, et al. **Biochim Biophys Acta** 1996 Oct 23; 1284(2):227–32

Effects of U73122 and U73343 on human platelet calcium signalling and protein tyrosine phosphorylation. Heemskerk JW, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):81–8

Generation of antibodies specific for the RalA and RalB GTP-binding proteins and determination of their concentration and distribution in human platelets. Jilkina O, et al. **Biochim Biophys Acta** 1996 Nov 8; 1314(1-2):157–66

Sulfatide is expressed in both erythrocytes and platelets of bovine origin. Kushi Y, et al. **Biochim Biophys Acta** 1996 Dec 13;1304(3):254–62

Carbohydrate metabolism in human platelets in a low glucose medium under aerobic conditions. Niu X, et al. **Biochim Biophys Acta** 1996 Oct 24;1291(2):97–106

Seasonal influence on platelet 5-HT levels in patients with recurrent major depression and schizophrenia. Jakovljević M, et al. **Biol Psychiatry** 1997 May 15;41(10):1028–34

Platelet serotonergic markers and Tridimensional Personality Questionnaire measures in a clinical sample. Nelson EC, et al. **Biol Psychiatry** 1996 Aug 15;40(4):271–8

Decreased inositol 1,4,5-trisphosphate-specific binding in platelets from alcoholic subjects. Saito H, et al. **Biol Psychiatry** 1996 Nov 1;40(9):886–91

Seasonal variability in blood platelet 3H-imipramine binding in healthy controls: age and gender effects. Soria PR, et al. **Biol Psychiatry** 1996 Nov 15;40(10):981–5

Platelet endogenous adenosine 5'-diphosphate ribosylation in drug-free and lithium-treated subjects with bipolar disorder. Young LT, et al. **Biol Psychiatry** 1997 Sep 1; 42(5):413–5

Subcellular distribution of protein kinase C (pKC) in erythrocytes and concentration of D-myo-inositol-1,4,5-trisphosphate (IP3) in platelets and monocytes of force-fed zinc-deficient rats. Roth HP, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):225–34

The use of collagen-based model peptides to investigate platelet-reactive sequences in collagen. Barnes MJ, et al. **Biopolymers** 1996;40(4):383–97 (82 ref.)

Shear stress-induced binding of von Willebrand factor to platelets. Konstantopoulos K, et al. **Biorheology** 1997 Jan-Feb;34(1):57–71

Human kininogens regulate thrombin binding to platelets through the glycoprotein Ib-IX-V complex. Bradford HN, et al. **Blood** 1997 Aug 15;90(4):1508–15

Human platelets display high-affinity receptors for thrombopoietin. Broudy VC, et al. **Blood** 1997 Mar 15; 89(6):1896–904

Role of glycoprotein V in the formation of the platelet high-affinity thrombin-binding site. Dong JF, et al. **Blood** 1997 Jun 15;89(12):4355–63

Human platelets as a model for the binding and degradation of thrombopoietin. Fielder PJ, et al. **Blood** 1997 Apr 15; 89(8):2782–8

Hereditary variation in platelet integrin alpha 2 beta 1 density is associated with two silent polymorphisms in the alpha 2 gene coding sequence. Kunicki TJ, et al. **Blood** 1997 Mar 15;89(6):1939–43

Crkl is constitutively tyrosine phosphorylated in platelets from chronic myelogenous leukemia patients and inducibly phosphorylated in normal platelets stimulated by thrombopoietin. Oda A, et al. **Blood** 1996 Dec 1; 88(11):4304–13

Reassessment of protein tyrosine phosphorylation in thrombasthenic platelets: evidence that phosphorylation of cortactin and a 64-kD protein is dependent on thrombin activation and integrin alphaIIb beta3. Rosa JP, et al. **Blood** 1997 Jun 15;89(12):4385–92

Cloning of PAR3 cDNA from human platelets, and human erythroleukemic and human promonocytic cell lines [letter] Scase TJ, et al. **Blood** 1997 Sep 1;90(5):2113–4

Immunological comparisons of integrin alpha IIb beta 3 (GPIIb-IIIa) expressed on platelets and human erythroleukemia cells: evidence for cell specific differences. Jennings LK, et al. **Blood Cells Mol Dis** 1996;22(1):23–35

Prothrombin conversion under flow conditions by prothrombinase assembled on adherent platelets. Billy D, et al. **Blood Coagul Fibrinolysis** 1997 Apr;8(3):168–74

Activation of the endothelin B receptor causes a dose-dependent accumulation of cyclic GMP in human platelets. Dockrell ME, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):178–80

Contact-induced modulation of neutrophil elastase secretion and phagocytic activity by platelets. Lösche W, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):210–3

Redistribution of membrane glycoproteins in platelets activated under flow conditions. Lozano M, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):214–7

ADP-induced P-selectin expression on platelets as a predictor of successful thrombolysis. Yusuf SW, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):266–9

Platelet PGI2 receptor affinity is reduced in pre-eclampsia. Klockenbusch W, et al. **Br J Clin Pharmacol** 1996 Jun; 41(6):616–8

Reduced platelet aggregation after fluvastatin therapy is associated with altered platelet lipid composition and drug binding to the platelets. Osamah H, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):77–83

Glycosylphosphatidyl-inositol (GPI)-linked protein deficiency on the platelets of patients with aplastic anaemia and paroxysmal nocturnal haemoglobinuria: two distinct patterns correlating with expression on neutrophils. Jin JY, et al. **Br J Haematol** 1997 Mar;96(3):493–6

Elevated levels of basic fibroblast growth factor in megakaryocytes and platelets from patients with idiopathic myelofibrosis. Martyré MC, et al. **Br J Haematol** 1997 May; 97(2):441–8

Types and sources of fuels for platelets in a medium containing minimal added fuels and a low carryover plasma. Niu X, et al. **Br J Haematol** 1997 Jun;97(4):908–16

Effect of clopidogrel treatment on ADP-induced phosphorylations in rat platelets. Savi P, et al. **Br J Haematol** 1997 Apr;97(1):185–91

The effects of chronic smoking on the fibrinolytic potential of plasma and platelets. Simpson AJ, et al. **Br J Haematol** 1997 Apr;97(1):208–13

Analysis of CD9, CD32 and p67 signalling: use of degranulated platelets indicates direct involvement of CD9 and p67 in integrin activation. Slupsky JR, et al. **Br J Haematol** 1997 Feb;96(2):275–86

The relationships between dietary alpha-linolenic:linoleic acid and rat platelet eicosapentaenoic and arachidonic acids. Leece EA, et al. **Br J Nutr** 1996 Sep;76(3):447–52

Indicators of platelet turnover in thrombocytopenic infants. Sciscione AC, et al. **Br J Obstet Gynaecol** 1997 Jun; 104(6):743–5

Role of chondroitin 4-sulphate as a receptor for polycation induced human platelet aggregation. Donato JL, et al. **Br J Pharmacol** 1996 Dec;119(7):1447–53

Influence of authentic nitric oxide on basal cytosolic [Ca2+] and Ca2+ release from internal stores in human platelets. Le Quan Sang KH, et al. **Br J Pharmacol** 1996 Dec; 119(7):1361–6

Pharmacological and biochemical characterization of purified A2a adenosine receptors in human platelet membranes by [3H]-CGS 21680 binding. Varani K, et al. **Br J Pharmacol** 1996 Apr;117(8):1693–701

Antiplatelet effect of demethyldiisoeugenol. Liao CH, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1111–6

Abnormal regulation of cytosolic calcium and pH in platelets of Sabra rats in early phases of salt hypertension development. Zicha J, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1222–8

Reactive oxygen metabolites and arterial thrombosis. Ambrosio G, et al. **Cardiovasc Res** 1997 Jun;34(3):445–52 (58 ref.)

Influence of fibronectin on HIV-1 infection and capability of binding to platelets. Pugliese A, et al. **Cell Biochem Funct** 1996 Dec;14(4):291–6

Correlation between cytosolic Ca2+ concentration, protein phosphorylation and platelet secretion. Dalla Via L, et al. **Cell Calcium** 1996 Nov;20(5):431–40

Characterization of human platelet receptors for atrial natriuretic peptide: evidence for clearance receptors. Blaise V, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Dec; 42(8):1173–9

Total inhibition of phospholipase C and phosphatidylinositol 3-kinase by okadaic acid in thrombin-stimulated platelets. Mauco G, et al. **Cell Signal** 1997 Jan;9(1):117–24

Variations in the platelet arginine/nitric oxide pathway during the ovarian cycle in females affected by menstrual migraine. Sarchielli P, et al. **Cephalalgia** 1996 Nov; 16(7):468–75

Exogenously added alkylmethylglycerophosphocholine and alkylmethylcarbamylglycerophosphocholine accumulate in plasma membranes more than in intracellular membranes of rabbit platelets. Tokumura A, et al. **Chem Phys Lipids** 1997 Mar 28;86(1):75–83

Effect of 764-3 on aggregation and calcium movements in aequorin-loaded human platelets. Wu H, et al. **Chin Med Sci J** 1996 Mar;11(1):49–52

P2T purinoceptors: ADP receptors on platelets. Hourani SM, et al. **Ciba Found Symp** 1996;198:53–64; discussion 64–70 (50 ref.)

Prostacyclin receptor desensitization is a reversible phenomenon in human platelets. Fisch A, et al. **Circulation** 1997 Aug 5;96(3):756–60

Low-density lipoproteins inhibit the Na+/H+ antiport in human platelets. A novel mechanism enhancing platelet activity in hypercholesterolemia [see comments] Nofer JR, et al. **Circulation** 1997 Mar 18;95(6):1370–7. Comment in: Circulation 1997 Mar 18;95(6):1347–8.

Human platelet Ca2+ mobilization, glycoprotein IIb/IIIa activation, and experimental coronary thrombosis in vivo in dogs are all inhibited by the inotropic agent amrinone. Sill JC, et al. **Circulation** 1997 Sep 2;96(5):1647–53

Differential expression of platelet activation markers in aspirin-sensitive asthmatics and normal subjects. Taylor ML, et al. **Clin Exp Allergy** 1996 Feb;26(2):202–15

Multimerin: a bench-to-bedside chronology of a unique platelet and endothelial cell protein—from discovery to function to abnormalities in disease. Hayward CP. **Clin Invest Med** 1997 Jun;20(3):176–87 (39 ref.)

Serotonin metabolism in patients undergoing hemodialysis. Kanai H, et al. **Clin Nephrol** 1996 Apr;45(4):244–9

Lithium blocks 45Ca2+ uptake into platelets in bipolar affective disorder and controls. Berk M, et al. **Clin Neuropharmacol** 1996 Feb;19(1):48–51

Effects of high external concentrations of K+ on 86Rb+ efflux in human platelets: evidence for Na+/K+/2Cl- co-transport. de Silva HA, et al. **Clin Sci (Colch)** 1996 Dec; 91(6):725–31

Two selectins converge on sulphate. Leukocyte adhesion. Rosen SD, et al. **Curr Biol** 1996 Mar 1;6(3):261–4 (21 ref.)

Cytokine mRNA expression in human platelets and a megakaryocytic cell line and cytokine modulation of platelet function. Soslau G, et al. **Cytokine** 1997 Jun; 9(6):405–11

Rapid Ca2+-mediated activation of Rap1 in human platelets. Franke B, et al. **EMBO J** 1997 Jan 15;16(2):252–9

Aggregation-dependent, integrin-mediated increases in cytoskeletally associated PtdInsP2 (4,5) levels in human platelets are controlled by translocation of PtdIns 4-P 5-kinase C to the cytoskeleton. Hinchliffe KA, et al. **EMBO J** 1996 Dec 2;15(23):6516–24

Clinical management of unstable angina: the place of antithrombins and platelet GP IIb/IIIa receptor blockers. Knudtson ML. **Eur Heart J** 1995 Nov;16 Suppl L:68–74 (105 ref.)

Early clinical experience with integrelin, an inhibitor of the platelet glycoprotein IIb/IIIa integrin receptor. Ohman EM, et al. **Eur Heart J** 1995 Nov;16 Suppl L:50–5 (35 ref.)

Fuel choices by human platelets in human plasma. Guppy M, et al. **Eur J Biochem** 1997 Feb 15;244(1):161–7

Identification and structure of activated-platelet protein-1, a protein with RNA-binding domain motifs that is expressed by activated platelets. Houng AK, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):209–18

The platelet antigens CD9, CD42 and integrin alpha IIb beta IIIa can be topographically associated and transduce functionally similar signals. Slupsky JR, et al. **Eur J Biochem** 1997 Feb 15;244(1):168–75

Consumption of ginger (Zingiber officinale roscoe) does not affect ex vivo platelet thromboxane production in humans. Janssen PL, et al. **Eur J Clin Nutr** 1996 Nov;50(11):772–4

Hypertension induced by recombinant human erythropoietin (rHU-EPO) can be prevented by indomethacin. Pathogenetic role of cytosolic calcium. Schiffl H, et al. **Eur J Med Res** 1997 Mar 24;2(3):97–100

Endothelin-3, Ca2+ mobilization and cyclic GMP content in human platelets. Gagnet C, et al. **Eur J Pharmacol** 1996 Aug 22;310(1):67–72

The role of ADP in endotoxin-induced equine platelet activation. Jarvis GE, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):203–12

Biotransformation of glyceryl trinitrate by blood platelets as compared to vascular smooth muscle cells. Weber AA, et al. **Eur J Pharmacol** 1996 Aug 8;309(2):209–13

Sodium-hydrogen exchange isoform expression in blood cells: implications for studies in diabetes mellitus. Rutherford P, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:13–6

Platelet and lymphocyte benzodiazepine binding in patients with Alzheimer's disease. Bongioanni P, et al. **Exp Neurol** 1997 Aug;146(2):560–6

Strontium ions stimulate phosphoinositide metabolism in human blood platelets. Best LC, et al. **FEBS Lett** 1981 Nov 2;134(1):88–90

Diacylglycerol mediates the thrombin-induced, protein kinase C and Ca2+ independent activation of the Na+/H+ exchanger in platelets. Cavallini L, et al. **FEBS Lett** 1997 Jan 2;400(1):99–102

The P2Y1 receptor is an ADP receptor antagonized by ATP and expressed in platelets and megakaryoblastic cells. Léon C, et al. **FEBS Lett** 1997 Feb 10;403(1):26–30

Calpains are involved in phosphatidylinositol 3',4'-bisphosphate synthesis dependent on the alpha IIb beta 3 integrin engagement in thrombin-stimulated platelets. Montsarrat N, et al. **FEBS Lett** 1997 Mar 3; 404(1):23–6

Alzheimer's presenilin 1 gene expression in platelets and megakaryocytes. Identification of a novel splice variant. Vidal R, et al. **FEBS Lett** 1996 Sep 9;393(1):19–23

Peroxynitrite-induced tyrosine nitration and phosphorylation in human platelets. Mondoro TH, et al. **Free Radic Biol Med** 1997;22(6):1055–63

Eicosanoid synthesis by purified thrombocytes and erythrocytes from warm- and cold-acclimated American bullfrogs (Rana catesbeiana). Wang X, et al. **Gen Comp Endocrinol** 1997 Apr;106(1):138–44

Antiplatelet and calcium inhibitory properties of eugenol and sodium eugenol acetate. Chen SJ, et al. **Gen Pharmacol** 1996 Jun;27(4):629–33

Effects of exogenous gangliosides on intracellular Ca2+ mobilization and functional responses in human platelets. Yatomi Y, et al. **Glycobiology** 1996 Apr;6(3):347–53

Platelet angiotensin II receptor status during pregnancy in Chinese women at high-risk of developing pregnancy-induced hypertension. Rogers MS, et al. **Gynecol Obstet Invest** 1996;42(2):88–94

In vitro effect of reduced glutathione on platelet function. Pacchiarini L, et al. **Haematologica** 1996 Nov-Dec; 81(6):497–502

P-selectin induction of tissue factor biosynthesis and expression. Furie B, et al. **Haemostasis** 1996;26 Suppl 1:60–5 (40 ref.)

Migraine patients show increased platelet vasopressin receptors. Buschmann J, et al. **Headache** 1996 Nov-Dec; 36(10):586–8

Changes in membrane glycoproteins of circulating platelets after coronary stent implantation. Gawaz M, et al. **Heart** 1996 Aug;76(2):166–72

Dietary NaCl loading increases platelet Ca2+ discharge capacity in salt resistant essential hypertension. Watanabe M. **Hiroshima J Med Sci** 1996 Mar;45(1):23–30

The effect of bradykinin and substance P on the arachidonate cascade of platelets. Gecse A, et al. **Immunopharmacology** 1996 Jun;33(1–3):167–70

Interactions of factor XII with platelets and endothelial cells. Shibayama Y, et al. **Immunopharmacology** 1996 May; 32(1–3):24–7 (21 ref.)

Arteriovenous fistula obstruction and expression of platelet receptors for von Willebrand factor and for fibrinogen (glycoproteins GPib and GPiib/iiia) in hemodialysis patients. Liani M, et al. **Int J Artif Organs** 1996 Aug; 19(8):451–4

Ectopic expression of platelet integrin alphaIIb beta3 in tumor cells from various species and histological origin. Chen YQ, et al. **Int J Cancer** 1997 Aug 7;72(4):642–8

The augmented platelet intracellular calcium response to serotonin in anorexia nervosa but not bulimia may be due to subsyndromal depression. Berk M, et al. **Int J Eat Disord** 1997 Jul;22(1):57–63

Outside-in signaling from integrin alpha IIb beta 3 into platelets in the absence of agonist-induced signaling. Hato T, et al. **Int J Hematol** 1997 Jun;65(4):385–95

Recovery of macromolecular activators of phagocytosis from platelets (MAPP) producing and releasing function in stored human platelets. Sakamoto H, et al. **Int J Hematol** 1996 Feb;63(2):143–8

Age-related changes of platelet arachidonic acid metabolism in normal subjects [letter] Tomo K, et al. **Int J Hematol** 1997 Aug;66(2):249–51

Platelet 5-HT concentrations and suicidal behaviour in recurrent major depression. Mück-Seler D, et al. **J Affect Disord** 1996 Jun 20;39(1):73–80

Platelet serotonin transporter in children and adolescents with obsessive-compulsive disorder or Tourette's syndrome. Sallee FR, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1647–56

Studies on the platelet alpha-adrenoceptor subtypes in diabetes mellitus [see comments] Das T, et al. **J Assoc Physicians India** 1996 May;44(5):307–9. Comment in: J Assoc Physicians India 1996 May;44(5):301–2.

Platelet adrenoceptors in health and disease [editorial; comment] Thomas M, et al. **J Assoc Physicians India** 1996 May;44(5):301–2. Comment on: J Assoc Physicians India 1996 May;44(5):307–9.

Sphingosine 1-phosphate, a bioactive sphingolipid abundantly stored in platelets, is a normal constituent of human plasma and serum. Yatomi Y, et al. **J Biochem (Tokyo)** 1997 May;121(5):969–73

Agonist-activated alphavbeta3 on platelets and lymphocytes binds to the matrix protein osteopontin. Bennett JS, et al. **J Biol Chem** 1997 Mar 28;272(13):8137–40

Proteolysis of platelet cortactin by calpain. Huang C, et al. **J Biol Chem** 1997 Aug 1;272(31):19248–52

p38 mitogen-activated protein kinase phosphorylates cytosolic phospholipase A2 (cPLA2) in thrombin-stimulated platelets. Evidence that proline-directed phosphorylation is not required for mobilization of arachidonic acid by cPLA2. Kramer RM. et al. **J Biol Chem** 1996 Nov 1;271(44):27723–9

Thrombin receptors on human platelets. Initial localization and subsequent redistribution during platelet activation. Molino M, et al. **J Biol Chem** 1997 Feb 28;272(9):6011–7

Src kinase activity is regulated by the SHP-1 protein-tyrosine phosphatase. Somani AK, et al. **J Biol Chem** 1997 Aug 22;272(34):21113–9

A novel association of Fc receptor gamma-chain with glycoprotein VI and their co-expression as a collagen receptor in human platelets. Tsuji M, et al. **J Biol Chem** 1997 Sep 19;272(38):23528–31

Sphingosine 1-phosphate induces platelet activation through an extracellular action and shares a platelet surface receptor with lysophosphatidic acid. Yatomi Y, et al. **J Biol Chem** 1997 Feb 21;272(8):5291–7

The binding of human blood platelets to fibrinogen-, fibronectin-, and Arg-Gly-Asp-derivatized Sephadex G-10. Besselink GA, et al. **J Biomater Sci Polym Ed** 1995; 7(7):551–62

Changes in binding affinity of a monoclonal antibody to a platelet binding domain of fibrinogen adsorbed to biomaterials. Grunkemeier J, et al. **J Biomater Sci Polym Ed** 1996;8(3):189–209

Platelet adhesion and cellular interaction with poly(ethylene oxide) immobilized onto silicone rubber membrane surfaces. Hsiue GH, et al. **J Biomater Sci Polym Ed** 1996; 7(10):839–55

Platelet interactions with plasma-polymerized ethylene oxide and N-vinyl-2-pyrrolidone films and linear poly(ethylene oxide) layer. Kamath KR, et al. **J Biomater Sci Polym Ed** 1996;7(11):977–88

Improved blood compatibility of drawn polyamide sheets. Tanaka H, et al. **J Biomater Sci Polym Ed** 1996;8(3):211–24

Intracellular levels of cyclic AMP and cyclic GMP differentially modify platelet aggregate size in human platelets activated with epinephrine or ADP. Qi R, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):215–22

Anti-platelet effects of 100 mg alternate day oral aspirin: a randomized, double-blind, placebo-controlled trial of regular and enteric coated formulations in men and women. Ridker PM, et al. **J Cardiovasc Risk** 1996 Apr;3(2):209–12

Thrombin stimulates glucose transport in human platelets via the translocation of the glucose transporter GLUT-3 from alpha-granules to the cell surface. Heijnen HF, et al. **J Cell Biol** 1997 Jul 28;138(2):323–30

Transcellular activation of platelets and endothelial cells by

bioactive lipids in platelet microparticles. Barry OP, et al. **J Clin Invest** 1997 May 1;99(9):2118–27

Cloning, characterization, and functional studies of a nonintegrin platelet receptor for type I collagen. Chiang TM, et al. **J Clin Invest** 1997 Aug 1;100(3):514–21

Nitric oxide released from activated platelets inhibits platelet recruitment. Freedman JE, et al. **J Clin Invest** 1997 Jul 15;100(2):350–6

Effects of 'Seroquel' (quetiapine) on platelet serotonin-2 binding in schizophrenia [letter] Faustman WO, et al. **J Clin Psychopharmacol** 1996 Dec;16(6):464–6

The effect of fluvoxamine on serum prolactin and serum sodium concentrations: relation to platelet 5-HT2A receptor status. Spigset O, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):292–7

Vasopressin and oxytocin levels during normal pregnancy: effects of chronic dietary sodium restriction. van der Post JA, et al. **J Endocrinol** 1997 Mar;152(3):345–54

Platelet serotonin (5-HT) content is decreased in patients with alcoholic liver cirrhosis, but elevated in Gilbert's syndrome [letter] Borcsiczky D, et al. **J Hepatol** 1996 Nov; 25(5):781–2

Platelet basal cytosolic calcium: the influence of plasma factors in cirrhosis. Forrest EH, et al. **J Hepatol** 1996 Sep; 25(3):312–5

Platelet sodium/hydrogen ion exchange in normal pregnancy and non-proteinuric pre-eclampsia. Graham D, et al. **J Hum Hypertens** 1997 Jul;11(7):453–8

Effects of antihypertensive therapy on platelet cytosolic calcium responses to low density lipoprotein cholesterol. Sowers JR, et al. **J Hum Hypertens** 1996 Mar;10(3):177–80

Platelet cytosolic calcium concentration, plasma lipids and hypertension. Le Quan Sang KH, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1575–80

Interaction with autologous platelets multiplies interleukin-1 and tumor necrosis factor production in mononuclear cells. Aiura K, et al. **J Infect Dis** 1997 Jan;175(1):123–9

Decreased platelet membrane anisotropy in patients with adrenoleukodystrophy treated with erucic acid (22:1)-rich triglycerides. Stöckler S, et al. **J Inherit Metab Dis** 1997 Mar;20(1):54–8

Stimulus responses and amyloid precursor protein processing in DAMI megakaryocytes [see comments] Davies TA, et al. **J Lab Clin Med** 1997 Jul;130(1):21–32. Comment in: J Lab Clin Med 1997 Jul;130(1):5–7.

Reversal by high-density lipoprotein of the effect of oxidized low-density lipoprotein on nitric oxide synthase protein expression in human platelets. Mehta JL, et al. **J Lab Clin Med** 1996 Mar;127(3):287–95

Association of fibrinogen-bound glycoprotein IIb-IIIa complexes on the activated platelet surface [editorial; comment] [see comments] Nurden AT. **J Lab Clin Med** 1996 Jul;128(1):7–8 (14 ref.). Comment on: J Lab Clin Med 1996 Jul;128(1):39–50. Comment in: J Lab Clin Med 1997 Jun;129(6):653–5.

Platelet-activating factor in plasma of patients with sickle cell disease in steady state. Oh SO, et al. **J Lab Clin Med** 1997 Aug;130(2):191–6

Self-association of bound fibrinogen on platelet surfaces [see comments] Simmons SR, et al. **J Lab Clin Med** 1996 Jul; 128(1):39–50. Comment in: J Lab Clin Med 1996 Jul;128(1):7–8. Comment in: J Lab Clin Med 1997 Jun;129(6):653–5.

Altered intracellular calcium and phorbol 12,13-dibutyrate binding to intact platelets in young obese subjects. Takaya J, et al. **J Lab Clin Med** 1997 Feb;129(2):245–50

Self-association of bound fibrinogen on platelet surfaces [letter; comment] White JG. **J Lab Clin Med** 1997 Jun; 129(6):653–5. Comment on: J Lab Clin Med 1996 Jul;128(1):7–8. Comment on: J Lab Clin Med 1996 Jul;128(1):39–50.

Enhanced arachidonic acid and calcium metabolism in cholesteryl sulfate-enriched rat platelets. Blache D. **J Lipid Mediat Cell Signal** 1996 Mar;13(2):127–38

Oleic acid-induced Ca2+ mobilization in human platelets: is oleic acid an intracellular messenger? Siafaka-Kapadai A, et al. **J Lipid Mediat Cell Signal** 1997 Mar;15(3):215–32

Identification of serotonin transporter mRNA in rat platelets. Hranilović D, et al. **J Neural Transm** 1996;103(8–9):957–65

Platelet 5-hydroxytryptamine (5-HT) transporter and 5-HT2A receptor binding after chronic hypercorticosteronemia, (+/-)-1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane administration or neurotoxin-induced depletion of central nervous system 5-HT in the rat. Owens MJ, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1040–9

Comparison of ligand binding affinities at human I1-imidazoline binding sites and the high affinity state of alpha-2 adrenoceptor subtypes. Piletz JE, et al **J Pharmacol Exp Ther** 1996 Nov;279(2):694–702

Characterization of [3H]apafant binding to PAF receptor on rabbit platelet membranes: a comparison of a microplate filtration system and a standard method. Balse D, et al. **J Pharmacol Toxicol Methods** 1996 Sep;36(1):53–62

Enhanced calcium response to serotonin in platelets from patients with affective disorders. Yamawaki S, et al. **J Psychiatry Neurosci** 1996 Nov;21(5):321–4

Regulation of inositol 1,4,5-trisphosphate-induced calcium release by inositol 1,4,5-trisphosphate and calcium in human platelets. Eberhard M, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1–4):297–309

Effects of lipoproteins on cyclo-oxygenase and lipoxygenase pathways in human platelets. Saeed SA, et al. **JPMA J Pak Med Assoc** 1997 Mar;47(3):84–8

Effect of fluvoxamine on 5-hydroxytryptamine uptake, paroxetine binding sites and ketanserin binding sites in the Japanese monkey brain and platelets, in vivo and in vitro. Goto S, et al. **Jpn J Pharmacol** 1996 Aug;71(4):291–8

Affinity for [3H]iloprost binding sites and cAMP synthesis activity of a 3-oxa-methano prostaglandin I1 analog, SM-10906, in human platelets and endothelial cells. Hiroi T, et al. **Jpn J Pharmacol** 1997 May;74(1):37–43

Combined response of plasma and platelet catecholamines to different types of short-term stress. Blandini F, et al. **Life Sci** 1995 Feb 17;56(13):1113–20

Shear stress-induced myosin association with cytoskeleton and phosphorylation in human platelets. Nakai K, et al. **Life Sci** 1997;60(11):PL181–91

Increased formation of phosphatidylinositol-4-phosphate in human platelets stimulated with lysophosphatidic acid. Mani I, et al. **Lipids** 1996 Dec;31(12):1265–8

Incorporation of n-3 fatty acids into plasma lipid fractions, and erythrocyte membranes and platelets during dietary supplementation with fish, fish oil, and docosahexaenoic acid-rich oil among healthy young men. Vidgren HM, et al. **Lipids** 1997 Jul;32(7):697–705

Altered platelet magnesium and plasma and urinary soluble form of intercellular adhesion molecule I (sICAM-1) concentrations in insulin dependent diabetes mellitus (IDDM) patients with microalbuminuria. Corica F, et al. **Magnes Res** 1996 Dec;9(4):307–12

In vivo effect of insulin on intracellular calcium concentrations: relation to insulin resistance. Baldi S, et al. **Metabolism** 1996 Nov;45(11):1402–7

Increased intracellular calcium and altered phorbol dibutyrate binding to intact platelets in young subjects with insulin-dependent and non-insulin-dependent diabetes mellitus. Takaya J, et al. **Metabolism** 1997 Aug;46(8):949–53

Nitric oxide in platelets. Radomski MW, et al. **Methods Enzymol** 1996;269:88–107 (51 ref.)

Human recombinant interleukin-1 beta induces thromboxane A2 release in polymorphonuclear leukocytes, macrophages and platelets: effect of IL-1 receptor antagonist. Reale M, et al. **Mol Cell Biochem** 1996 Jun 21;159(2):163–8

Enantiomers of myo-inositol-1,3,4-trisphosphate and myo-inositol-1,4,6 -trisphosphate: stereospecific recognition by cerebellar and platelet myo-inositol-1,4,5-trisphosphate receptors. Murphy CT, et al. **Mol Pharmacol** 1996 Nov;50(5):1223–30

A dose-ranging study of selegiline in patients with Parkinson's disease: effect of platelet monoamine oxidase activity. Andreu N, et al. **Mov Disord** 1997 May;12(3):293–6

Protease-activated receptor 3 is a second thrombin receptor in humans. Ishihara H, et al. **Nature** 1997 Apr 3; 386(6624):502–6

Uraemic medium causes endothelial cell dysfunction characterized by an alteration of the properties of its subendothelial matrix. Aznar-Salatti J, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2199–204

Different erythrocyte and platelet surface electric charge in various types of glomerulonephritis. Klinger M, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):707–12

Anti-atherosclerotic properties of antihypertensive drugs: effect of antihypertensive therapy on platelet receptors for von Willebrand factor and for fibrinogen [letter] Liani M, et al. **Nephron** 1996;73(2):361–2

Activated Alzheimer disease platelets retain more beta amyloid precursor protein. Davies TA, et al. **Neurobiol Aging** 1997 Mar-Apr;18(2):147–53

Effects of thimerosal, an organic sulfhydryl modifying agent, on serotonin transport activity into rabbit blood platelets. Nishio H, et al. **Neurochem Int** 1996 Oct;29(4):391–6

Decreased platelet 3H-paroxetine binding in obsessive-compulsive patients. Marazziti D, et al. **Neuropsychobiology** 1996;34(4):184–7

Effect of age on platelet 5-HT concentrations in healthy controls, depressed and schizophrenic patients. Mück-Seler D, et al. **Neuropsychobiology** 1996;34(4):201–3

Platelet 5-HT levels and hypothalamic-pituitary-adrenal axis activity in schizophrenic patients with positive and negative symptoms. Pivac N, et al. **Neuropsychobiology** 1997; 36(1):19–21

Impulsive aggression in personality disorder correlates with platelet 5-HT2A receptor binding. Coccaro EF, et al. **Neuropsychopharmacology** 1997 Mar;16(3):211–6

Seasonal variation in platelet [3H]paroxetine binding in healthy volunteers. Relationship to climatic variables. D'Hondt P, et al. **Neuropsychopharmacology** 1996 Aug; 15(2):187–98

Serotonin 5-HT2A receptor binding in platelets from healthy subjects as studied by [3H]-lysergic acid diethylamide ([3H]-LSD): intra- and interindividual variability. Spigset O, et al. **Neuropsychopharmacology** 1997 Apr;16(4):285–93

G-protein level quantification in platelets and leukocytes from patients with panic disorder. Stein MB, et al. **Neuropsychopharmacology** 1996 Aug;15(2):180–6

Platelet imidazoline receptors and regulatory G proteins in patients with major depression. García-Sevilla JA, et al. **Neuroreport** 1996 Dec 20;8(1):169–72

Deficient thromboxane synthesis and response in platelets from premature infants. Israels SJ, et al. **Pediatr Res** 1997 Feb;41(2):218–23

Nifedipine reduces thromboxane A2 production by platelets without changing aggregation in hypertensive pregnancy. Manninen A. **Pharmacol Toxicol** 1996 Jun;78(6):387–91

Indobufen induced modification of phospholipid composition in diabetic platelets. Dmoszyńska A, et al. **Pol J Pharmacol** 1996 May-Jun;48(3):331–4

Molecular mechanisms of fibrin gel clot retraction by platelets and cultured tumor cells. Tanoue K, et al. **Pol J Pharmacol** 1996 May-Jun;48(3):341–3

A genetic analysis of integrin function: Glanzmann thrombasthenia in vitro. Baker EK, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1973–8

Platelet signal transduction defect with Galpha subunit dysfunction and diminished Galphaq in a patient with abnormal platelet responses. Gabbeta J, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8750–5

Thrombin cleaves recombinant human thrombopoietin: one of the proteolytic events that generates truncated forms of thrombopoietin. Kato T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4669–74

Constitutive production and thrombin-induced release of vascular endothelial growth factor by human megakaryocytes and platelets. Möhle R, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):663–8

Prostaglandin E2 both stimulates and inhibits adenyl cyclase on platelets: comparison of effects on cloned EP4 and EP3 prostaglandin receptor subtypes. Mao GF, et al. **Prostaglandins** 1996 Sep;52(3):175–85

Thromboxane A2 stimulates mitogen-activated protein kinase and arachidonic acid liberation in rabbit platelets. Ohkubo S, et al. **Prostaglandins** 1996 Nov;52(5):403–13

Isolation and purification of anticardiolipin antibody from plasma of a patient with antiphospholipid syndrome: induced generation of platelet thromboxane A2 synthesis. Leung S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):385–93

The incorporation of dietary n-3 polyunsaturated fatty acids into porcine platelet phospholipids and their effects on platelet thromboxane A2 release. Murray MJ, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Mar; 56(3):223–8

Incorporation of 3H-arachidonic acid into platelet phospholipids of patients with schizophrenia. Yao JK, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Aug; 55(1–2):21–6

Cell-cell interaction between platelets and IL-1 beta-stimulated vascular smooth muscle cells in synthesis of thromboxane A2. Zou M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Feb; 56(2):85–91

Platelet imipramine binding in patients with posttraumatic stress disorder before and after phenelzine treatment. Weizman R, et al. **Psychiatry Res** 1996 Jul 31; 63(2–3):143–50

Platelet serotonin and [3H]paroxetine binding correlate with recurrence of suicidal behavior. Verkes RJ, et al. **Psychopharmacology (Berl)** 1997 Jul;132(1):89–94

Platelet alpha 2-adrenoreceptors, catecholamines, hemodynamic variables, and anxiety in panic patients and their asymptomatic relatives. Cameron OG, et al. **Psychosom Med** 1996 Jul-Aug;58(4):289–301

Endothelin expression in human megakaryoblastic leukemia cell lines and normal platelet precursors. Mathieu MN, et al. **Regul Pept** 1997 Jan 29;68(2):91–7

Platelets isolated by albumin gradient retain normal activation pathways. Vecino AM, et al. **Rev Esp Fisiol** 1996 Mar; 52(1):45–8

Plasminogen activator inhibitor-1 (PAI-1) content in platelets from healthy individuals genotyped for the 4G/5G polymorphism in the PAI-1 gene. Nordenhem A, et al. **Scand J Clin Lab Invest** 1997 Aug;57(5):453–61

Aggressive behaviour and platelet 3H-paroxetine binding in schizophrenia. Maguire K, et al. **Schizophr Res** 1997 Jan 17;23(1):61–7

Thrombopoietic activity of recombinant human interleukin 11 (rHuIL-11) in normal and myelosuppressed nonhuman primates. Schlerman FJ, et al. **Stem Cells** 1996 Sep; 14(5):517–32

Soluble P-selectin in atherosclerosis: a comparison with endothelial cell and platelet markers. Blann AD, et al. **Thromb Haemost** 1997 Jun;77(6):1077–80

Protease-activated G protein-coupled receptors on human platelets and endothelial cells. Brass LF, et al. **Thromb Haemost** 1997 Jul;78(1):234–41 (89 ref.)

Ganglioside content of human platelets--differences in resting and activated platelets. Ferroni P, et al. **Thromb Haemost** 1997 Mar;77(3):548–54

The origin of P-selectin as a circulating plasma protein. Fijnheer R, et al. **Thromb Haemost** 1997 Jun;77(6):1081–5

Pathogenetic analysis of five cases with a platelet disorder characterized by the absence of thromboxane A2 (TXA2)-induced platelet aggregation in spite of normal TXA2 binding activity. Fuse I, et al. **Thromb Haemost** 1996 Dec;76(6):1080–5

Ca(2+)-dependent activation of the 33-kDa protein kinase transmits thrombin receptor signals in human platelets. Ido M, et al. **Thromb Haemost** 1996 Sep;76(3):439–43

The lysosomal granule membrane protein, LAMP-2, is also present in platelet dense granule membranes. Israels SJ, et al. **Thromb Haemost** 1996 Apr;75(4):623–9

Protein tyrosine phosphatase SHP-1 fails to associate with cytoskeleton but is normally phosphorylated upon

thrombin stimulation of thrombasthenic platelets. Li RY, et al. **Thromb Haemost** 1997 Jan;77(1):150–4

ADP receptors on platelets. Mills DC. **Thromb Haemost** 1996 Dec;76(6):835–56 (263 ref.)

Platelet receptors for collagen. Moroi M, et al. **Thromb Haemost** 1997 Jul;78(1):439–44 (48 ref.)

A point mutation in glycoprotein IX coding sequence (Cys73 (TGT) to Tyr(TAT)) causes impaired surface expression of GPIb/IX/V complex in two families with Bernard–Soulier syndrome. Noda M, et al. **Thromb Haemost** 1996 Dec;76(6):874–8

Chronic alcoholism decreases polyunsaturated fatty acid levels in human plasma, erythrocytes, and platelets—influence of chronic liver disease. Pita ML, et al. **Thromb Haemost** 1997 Aug;78(2):808–12

The significance of subendothelial von Willebrand factor. Rand JH, et al. **Thromb Haemost** 1997 Jul;78(1):445–50 (40 ref.)

The human platelet antigen HPA–1a/1b (PI(A1)/PI(A2)) polymorphism and cerebral ischaemia [letter] Reuner KH, et al. **Thromb Haemost** 1997 Aug;78(2):964–5

Activation of human platelets causes post–translational modifications to cytoplasmic dynein. Rothwell SW, et al. **Thromb Haemost** 1997 Aug;78(2):910–8

Different requirement of intracellular calcium and protein kinase C for arachidonic acid release and serotonin secretion in cathepsin G–activated platelets. Rotondo S, et al. **Thromb Haemost** 1997 Aug;78(2):919–25

Diabetes mellitus alters the effect of peptide and protein ligands on membrane fluidity of blood platelets. Watala C, et al. **Thromb Haemost** 1996 Jan;75(1):147–53

p–Aminobenzoic acid, but not its metabolite p–acetamidobenzoic acid, inhibits thrombin induced thromboxane formation in human platelets in a non NSAID like manner. Barbieri B, et al. **Thromb Res** 1997 Apr 15; 86(2):127–40

Anti–thrombotic activity of RG13965, a novel platelet fibrinogen receptor antagonist. Bostwick JS, et al. **Thromb Res** 1996 Jun 15;82(6):495–507

Calcium, calmodulin and protein kinase C dependence of platelet shape change. Dandona P, et al. **Thromb Res** 1996 Jan 15;81(2):163–75

Characterization of the gene encoding mouse platelet glycoprotien Ib beta. Kitaguchi T, et al. **Thromb Res** 1997 Jul 15;87(2):235–44

Hyperactivity and increased hydrogen peroxide formation in platelets of NIDDM patients. Leoncini G, et al. **Thromb Res** 1997 Apr 15;86(2):153–60

Analysis of the expression of glycosylphosphatidylinositol anchored proteins on platelets from patients with paroxysmal nocturnal hemoglobinuria. Maciejewski JP, et al. **Thromb Res** 1996 Sep 15;83(6):433–47

Aspirin delays thrombin generation in vitro through interaction with platelet phospholipids [letter; comment] Musiał J, et al. **Thromb Res** 1997 Feb 15;85(4):367–8. Comment on: Thromb Res 1996 Aug 15;83(4):329–38.

The role of thromboxane A2 in increased whole blood platelet aggregation in oral contraceptive users. Norris LA, et al. **Thromb Res** 1996 Feb 15;81(4):407–17

Procoagulant activity and active calpain in platelet–derived microparticles. Pasquet JM, et al. **Thromb Res** 1996 Jun 15;82(6):509–22

Influence of ionized calcium on thrombin–induced down regulation of GPIb/IX receptors on human platelets. Rao GH, et al. **Thromb Res** 1997 Jan 1;85(1):23–31

Inhibition of ADP–induced platelet aggregation by apoE is not mediated by membrane cholesterol depletion [corrected and republished article originally printed in Thromb Res 1995 Dec 15;80(6):499–508] Riddell DR, et al. **Thromb Res** 1996 Mar 1;81(5):597–606

Is platelet phospholipid–dependent thrombin generation altered by acute myocardial infarction or aspirin? [see comments] Rota S, et al. **Thromb Res** 1996 Aug 15; 83(4):329–38. Comment in: Thromb Res 1997 Feb 15;85(4):367–8.

Passive smoking and platelet thromboxane. Schmid P, et al. **Thromb Res** 1996 Feb 15;81(4):451–60

Hyperammonemia inhibits platelet aggregation in rats. Shinya H, et al. **Thromb Res** 1996 Jan 15;81(2):195–201

The Dami cell possesses the platelet collagen receptor VLA–2, but does not mobilize calcium. Strouse RJ, et al. **Thromb Res** 1996 Jun 15;82(6):485–93

A new method for quantitative analysis of whole blood platelet interaction with extracellular matrix under flow conditions. Varon D, et al. **Thromb Res** 1997 Feb 15; 85(4):283–94

Glycocalicin derived peptides inhibit von Willebrand factor binding to platelets. Williams SB, et al. **Thromb Res** 1997 Jun 1;86(5):417–21

C6–ceramide maintains elevated cytosolic calcium levels in activated platelets. Wong K, et al. **Thromb Res** 1996 Jan 15;81(2):219–29

Modulation of bovine platelet function by C–reactive protein. Cheryk LA, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1–2):27–36

In vitro expression and inhibition of procoagulant activity produced by bovine alveolar macrophages and peripheral blood cells. Rashid J, et al. **Vet Res Commun** 1996; 20(6):519–31

More on false thrombocytopenias: EDTA–dependent pseudothrombocytopenia associated with a congenital platelet release defect. Silvestri F, et al. **Vox Sang** 1996; 71(1):27–9

[The in vitro effect of alpha–2 agonists on thrombocyte function and density of thrombocyte alpha–2 receptors] Heesen M, et al. **Anaesthesist** 1996 Mar;45(3):255–8 (Eng. Abstr.) **(Ger)**

[Thrombocyte prostacyclin receptors in gestational hypertension and pre–eclampsia] Klockenbusch W, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun;200(3):96–9 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Pharmacodynamics of once– or twice–daily levofloxacin versus vancomycin, with or without rifampin, against Staphylococcus aureus in an in vitro model with infected platelet–fibrin clots. Palmer SM, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):701–5

Pharmacodynamics of RP 59500 (quinupristin–dalfopristin) administered by intermittent versus continuous infusion against Staphylococcus aureus–infected fibrin–platelet clots in an in vitro infection model. Rybak MJ, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1359–63

Diminished platelet binding in vitro by Staphylococcus aureus is associated with reduced virulence in a rabbit model of infective endocarditis. Sullam PM, et al. **Infect Immun** 1996 Dec;64(12):4915–21

Contamination of Bacillus cereus in an apheresis–derived platelet concentrate [letter] Shimoyama R, et al. **J Clin Apheresis** 1997;12(2):103

Rapid identification of bacterially contaminated platelets using reagent strips: glucose and pH analysis as markers of bacterial metabolism. Burstain JM, et al. **Transfusion** 1997 Mar;37(3):255–8

A retrospective analysis of microbial contaminants in outdated random–donor platelets from multiple sites. Leiby DA, et al. **Transfusion** 1997 Mar;37(3):259–63

Photochemical inactivation of viruses and bacteria in platelet concentrates by use of a novel psoralen and long–wavelength ultraviolet light. Lin L, et al. **Transfusion** 1997 Apr;37(4):423–35

Growth of bacteria in platelet concentrates obtained from whole blood stored for 16 hours at 22 degrees C before component preparation. Sanz C, et al. **Transfusion** 1997 Mar;37(3):251–4

Evaluation of swirling, pH, and glucose tests for the detection of bacterial contamination in platelet concentrates. Wagner SJ, et al. **Transfusion** 1996 Nov–Dec;36(11–12):989–93

Some biochemical properties of the components of Staphylococcus aureus binding to human platelets. Usui Y, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):56–62

PARASITOLOGY

Treatment of T. cruzi infected human platelet concentrates with aminomethyltrimethyl psoralen (AMT) and ultraviolet A (UV–A) light: preliminary results. Moraes–Souza H, et al. **Rev Soc Bras Med Trop** 1996 Jan–Feb;29(1):47–9

PATHOLOGY

The storage lesion of platelets: ultrastructural and functional aspects. Klinger MH. **Ann Hematol** 1996 Sep;73(3):103–12 (102 ref.)

Co–culture of platelets with activated J774.1 cells: effects on platelet aggregation and cyclic nucleotides. Kishi Y, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:525–32

Megakaryocytes and platelets in myeloproliferative disorders. Briere J, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):65–88 (103 ref.)

Megakaryocytes and platelets in alpha–granule disorders. Smith MP, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):125–48 (108 ref.)

Megakaryocytes and platelets in vascular disease. van der Loo B, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):109–23 (102 ref.)

Differential mechanisms in the regulation of endogenous levels of thrombopoietin and interleukin–11 during thrombocytopenia: insight into the regulation of platelet production. Chang M, et al. **Blood** 1996 Nov 1; 88(9):3354–62

Studies of a second family with the Quebec platelet disorder: evidence that the degradation of the alpha–granule membrane and its soluble contents are not secondary to a defect in targeting proteins to alpha–granules. Hayward CP, et al. **Blood** 1997 Feb 15;89(4):1243–53

Clonality analysis of hematopoiesis in essential thrombocythemia: advantages of studying T lymphocytes and platelets. el–Kassar N, et al. **Blood** 1997 Jan 1; 89(1):128–34

Missense mutations of the glycoprotein (GP) Ib beta gene impairing the GPIb alpha/beta disulfide linkage in a family with giant platelet disorder. Kunishima S, et al. **Blood** 1997 Apr 1;89(7):2404–12

Platelet prothrombinase activity and intracellular calcium responses in patients with storage pool deficiency, glycoprotein IIb–IIIa deficiency, or impaired platelet coagulant activity—a comparison with Scott syndrome. Weiss HJ, et al. **Blood** 1997 Mar 1;89(5):1599–611

Recirculated normal platelets adhere to surfaces coated with plasma from patients with immune thrombocytopenia. Azerad MA, et al. **Blood Coagul Fibrinolysis** 1997 Jan; 8(1):59–64

Giant platelets, megakaryocytes and the expression of glycoprotein Ib–IX complexes. Nurden P, et al. **C R Acad Sci III** 1996 Aug;319(8):717–26

A case of acquired platelet dysfunction with eosinophilia [letter] Lucas GN, et al. **Ceylon Med J** 1996 Sep;41(3):122

Benign familial microcytic thrombocytosis with autosomal dominant transmission. Cohen N, et al. **Clin Genet** 1997 Jul;52(1):47–50

Chronic isolated macrothrombocytopenia with autosomal dominant transmission: a morphological and qualitative platelet disorder. Fabris F, et al. **Eur J Haematol** 1997 Jan; 58(1):40–5

Stimulation of postmortem platelets with adenosine–5–diphosphate and epinephrine. Thomsen H, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):47–55

Platelet and monocyte variables in homocystinuria due to cystathionine–beta–synthase deficiency. Coppola A, et al. **Haematologica** 1997 Mar–Apr;82(2):189–90

Involvement of von Willebrand factor and PGI2 in platelet binding to a partially denuded endothelial monolayer. Kunii H, et al. **J Atheroscler Thromb** 1995;2(1):37–40

Subcellular changes in platelets in acute and subacute African swine fever. Gómez–Villamandos JC, et al. **J Comp Pathol** 1996 Nov;115(4):327–41

Characterization of a new hereditary thrombopathy in a closed colony of Wistar rats. Smith SV, et al. **J Lab Clin Med** 1996 Dec;128(6):601–11

Increased platelet retention in familial recurrent thrombotic thrombocytopenic purpura. Karpman D, et al. **Kidney Int** 1996 Jan;49(1):190–9

Platelet and endothelial cell function in patients with insulin–dependent diabetes mellitus with excellent, good, or poor metabolic control. Wagner B, et al. **Microvasc Res** 1996 Sep;52(2):183–7

Local delivery of platelets with encapsulated iloprost to balloon injured pig carotid arteries: effect on platelet deposition and neointima formation. Banning A, et al. **Thromb Haemost** 1997 Jan;77(1):190–6

Clinical significance of platelet size in inflammatory bowel disease? [letter; comment] Collins CE, et al. **Thromb Haemost** 1997 Jan;77(1):218–9. Comment on: Thromb Haemost 1996 Apr;75(4):560–1.

The relationship between plasma microparticles, protein S and anticardiolipin antibodies in patients with human immunodeficiency virus infection. Gris JC, et al. **Thromb Haemost** 1996 Jul;76(1):38–45

Abnormal histograms of platelets and spuriously normalizing platelet counts by Sysmex cell counters in hemolytic uremic syndrome due to Escherichia coli O157:H7 infection [letter] Komiyama Y, et al. **Thromb Haemost** 1997 Jun;77(6):1220–1

Platelet counts and aggregation measures in the incidence of ischaemic heart disease (IHD). Meade TW, et al. **Thromb Haemost** 1997 Aug;78(2):926–9

Platelet–type von Willebrand disease. Miller JL. **Thromb Haemost** 1996 Jun;75(6):865–9 (42 ref.)

Evaluation of the abnormal platelet function in von Willebrand disease by the blood filtration test. Pareti FI, et al. **Thromb Haemost** 1996 Sep;76(3):460–8

Size and shape change behaviour of platelets during storage in response to hypotonic shock [letter] Jung G, et al. **Vox Sang** 1996;70(1):50–2

[Dysmegakaryocytopoiesis and thrombopoiesis in autoimmune thrombocytopenias] Bellucci S. **C R Seances Soc Biol Fil** 1996;190(5–6):541–8 (25 ref.) (Eng. Abstr.) **(Fre)**

[Dysmegakaryocytopoiesis and dysthrombopoiesis in myeloproliferative syndromes] Brière J, et al. **C R Seances Soc Biol Fil** 1996;190(5–6):533–9 (Eng. Abstr.) **(Fre)**

[May–Heggelin anomaly and pregnancy. A case report, review of the literature] Tordjeman N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(8):836–40 (16 ref.) (Eng. Abstr.) **(Fre)**

[Mechanism of morphological changes of platelets upon exposure to cold] Higashihara M, et al. **J Smooth Muscle Res** 1995 Dec;31(6):483–4 **(Jpn)**

PHYSIOLOGY

Effects of taurine on calcium in platelets and their aggregation. Elizarova EP. **Adv Exp Med Biol** 1996; 403:589–95

Platelet serotonin acts as a locally releasable antioxidant. Huether G, et al. **Adv Exp Med Biol** 1996;398:299–306 (37 ref.)

Endothelin–1 as one of the mediators of the interaction between endothelium and platelets in humans. Knöfler R, et al. **Adv Exp Med Biol** 1996;416:337–42

Review article: platelets in inflammatory bowel disease—pathogenetic role and therapeutic implications. Collins CE, et al. **Aliment Pharmacol Ther** 1997 Apr; 11(2):237–47 (120 ref.)

Design criteria: tests used to assess platelet function. Schoene NW. **Am J Clin Nutr** 1997 May;65(5 Suppl):1665S–1668S (47 ref.)

Harnessing the platelet. Futterman LG, et al. **Am J Crit Care** 1997 Sep;6(5):406–14

A simple, fluorescent method to internally label platelets suitable for physiological measurements. Baker GR, et al. **Am J Hematol** 1997 Sep;56(1):17–25

Blood platelet responses to laboratory stress in young men. The effect of awareness of high blood pressure. Mundal HH, et al. **Am J Hypertens** 1996 Jan;9(1):12–7

Plasma phospholipids and platelet function in uremic patients. Vecino A, et al. **Am J Nephrol** 1996;16(5):409–11

Hypothesis of preeclampsia requires inclusion of the role of platelets [letter; comment] Bódis J, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):243–4. Comment on: Am J Obstet Gynecol 1996 Nov;175(5):1365–70.

cAMP induces heme oxygenase–1 gene expression and carbon monoxide production in vascular smooth muscle. Durante W, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H317–23

Platelet dense–granule centralization and the persistence of ADP secretion. Fogelson AL, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1131–40

Endothelin–1 causes sequential trapping of platelets and neutrophils in pulmonary microcirculation in rats. Helset E, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L538–46

Plasmin–platelet interaction involves cleavage of functional thrombin receptor. Kimura M, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C54–60

Diabetic human platelets release a substance that inhibits platelet–mediated vasodilation. Oskarsson HJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H371–9

Eicosanoid production from porcine neutrophils and platelets: differential production with various agonists. Stahl GL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1821–8

Colocalization of gold–labeled LDL and fibrinogen on platelets: enhanced fibrinogen binding induced by LDL. Volf I, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C118–29

Detection of activated platelets and platelet–leukocyte aggregates in horses. Weiss DJ, et al. **Am J Vet Res** 1997 Aug;58(8):823–7

Morphologic quantification of blood platelets by image analysis. Filler TJ, et al. **Anal Quant Cytol Histol** 1995 Dec;17(6):361–5

Does the platelet–activated clotting test (HemoSTATUS) predict blood loss and platelet dysfunction associated with cardiopulmonary bypass? Ereth MH, et al. **Anesth Analg** 1997 Aug;85(2):259–64

Accelerated platelet reconstitution following transplantation of bone marrow cells derived from IL–6–treated donor mice. Laterveer L, et al. **Ann Hematol** 1996 Nov; 73(5):239–45

Preoperative platelet dysfunction increases the benefit of aprotinin in cardiopulmonary bypass. Ray MJ, et al. **Ann Thorac Surg** 1997 Jan;63(1):57–63

Early attachment of platelets, leukocytes, and fibrinogen in endothelial cell seeded Dacron grafts. Jensen N, et al. **Ann Vasc Surg** 1996 Nov;10(6):530–6

Human platelet activation is inhibited by the occupancy of glycoprotein IIb/IIIa receptor. Padoin E, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):407–13

Relative involvement of GPIb/IX–vWF axis and GPIIb/IIIa in thrombus growth at high shear rates in the guinea pig. André P, et al. **Arterioscler Thromb Vasc Biol** 1997 May; 17(5):919–24

The thrombomodulin/protein C/protein S anticoagulant pathway modulates the thrombogenic properties of the normal resting and stimulated endothelium. Cadroy Y, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):520–7

Agglutination of isolated platelet membranes. Gawaz M, et al. **Arterioscler Thromb Vasc Biol** 1996 May;16(5):621–7

Importance of platelets in neutrophil adhesion and vasoconstriction after deep carotid arterial injury by angioplasty in pigs. Merhi Y, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1185–91

Clinical study of platelet function and coagulation/fibrinolysis with Duraflo II heparin coated cardiopulmonary bypass equipment. Nakajima T, et al. **ASAIO J** 1996 Jul–Aug;42(4):301–5

Proliferative response of human and minipig smooth muscle cells after coronary angioplasty to growth factors and platelets. Unterberg C, et al. **Basic Res Cardiol** 1996 Nov–Dec;91(6):407–17

A novel function of transferrin as a constituent of macromolecular activators of phagocytosis from platelets and their precursors. Sakamoto H, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):270–4

Thrombin activation of human platelets dissociates a complex containing gelsolin and actin from phosphatidylinositide–specific phospholipase Cgamma1. Baldassare JJ, et al. **Biochem J** 1997 May 15;324 (Pt 1):283–7

Modulation of human platelet function by food flavonoids. Kelly C, et al. **Biochem Soc Trans** 1996 May;24(2):197S

The role of electrostatic interactions in the assembly of the factor X activating complex on both activated platelets and negatively–charged phospholipid vesicles. London F, et al. **Biochemistry** 1996 Sep 17;35(37):12146–54

The influence of oxidized lipoproteins, oxidation products and antioxidants on the release of nitric oxide from the endothelium and the response of platelets to nitric oxide. Bruckdorfer KR, et al. **Biofactors** 1997;6(2):191–9 (49 ref.)

Platelet dense granule secretion in adolescents with conduct disorder and substance abuse: preliminary evidence for variation in signal transduction. Moss HB, et al. **Biol Psychiatry** 1996 Nov 1;40(9):892–8

Borderline personality, impulsiveness, and platelet monoamine measures in bulimia nervosa and recurrent suicidal behavior. Verkes RJ, et al. **Biol Psychiatry** 1996 Aug 1;40(3):173–80

Electroconvulsive therapy down–regulates platelet peripheral–type benzodiazepine receptors in medication–resistant major depressed patients. Weizman R, et al. **Biol Psychiatry** 1996 Aug 1;40(3):221–4

Thrombopoietin in patients with congenital thrombocytopenia and absent radii: elevated serum levels, normal receptor expression, but defective reactivity to thrombopoietin. Ballmaier M, et al. **Blood** 1997 Jul 15; 90(2):612–9

Randomized, blinded, placebo–controlled phase I trial of pegylated recombinant human megakaryocyte growth and development factor with filgrastim after dose–intensive chemotherapy in patients with advanced cancer. Basser RL, et al. **Blood** 1997 May 1;89(9):3118–28

High shear stress can initiate both platelet aggregation and shedding of procoagulant containing microparticles. Miyazaki Y, et al. **Blood** 1996 Nov 1;88(9):3456–64

Phosphoinositide 3–kinase activation and platelet function. Rittenhouse SE. **Blood** 1996 Dec 15;88(12):4401–14 (109 ref.)

Measurement of reticulated platelets following peripheral blood progenitor cell and bone marrow transplantation: implications for marrow reconstitution and the use of thrombopoietin. Richards EM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1029–33

The site of destruction of autologous 111In–labelled platelets and the efficiency of splenectomy in children and adults with idiopathic thrombocytopenic purpura: a study of 578 patients with 268 splenectomies. Najean Y, et al. **Br J Haematol** 1997 Jun;97(3):547–50

Involvement of platelet cyclic GMP but not cyclic AMP suppression in leukocyte–dependent platelet adhesion to endothelial cells induced by platelet–activating factor in vitro. Hirafuji M, et al. **Br J Pharmacol** 1996 Jan; 117(2):299–304

Evidence for a pivotal role of platelets in vascular reocclusion and restenosis [comment] LeBreton H, et al. **Cardiovasc Res** 1996 Feb;31(2):235–6. Comment on: Cardiovasc Res 1996 Feb;31(2):231.

Thrombin or platelets as major point of impact in vascular reocclusion and restenosis; a controversy? [see comments] Levi M. **Cardiovasc Res** 1996 Feb;31(2):231. Comment in: Cardiovasc Res 1996 Feb;31(2):232–4. Comment in: Cardiovasc Res 1996 Feb;31(2):235–6.

Platelet serotonin pathway in menstrual migraine [editorial; comment] de Belleroche J. **Cephalalgia** 1996 Oct;16(6):406 . Comment on: Cephalalgia 1996 Oct;16(6):427–30.

Cerebrovascular reactivity: role of endothelium/platelet/leukocyte interactions. Akopov S, et al. **Cerebrovasc Brain Metab Rev** 1996 Spring;8(1):11–94 (432 ref.)

Antithrombotic potential of polymer–coated stents eluting platelet glycoprotein IIb/IIIa receptor antibody. Aggarwal RK, et al. **Circulation** 1996 Dec 15;94(12):3311–7

Persistent inhibition of platelets during continuous nitroglycerin therapy despite hemodynamic tolerance. Hébert D, et al. **Circulation** 1997 Mar 4;95(5):1308–13

Long–term smoking impairs platelet–derived nitric oxide release. Ichiki K, et al. **Circulation** 1996 Dec 15; 94(12):3109–14

Platelet activation by superoxide anion and hydroxyl radicals intrinsically generated by platelets that had undergone anoxia and then reoxygenated [see comments] Leo R, et al. **Circulation** 1997 Feb 18;95(4):885–91. Comment in: Circulation 1997 Feb 18;95(4):787–9.

Induction of cytokine expression in leukocytes by binding of thrombin–stimulated platelets. Neumann FJ, et al. **Circulation** 1997 May 20;95(10):2387–94

Low–density lipoproteins inhibit the Na+/H+ antiport in human platelets. A novel mechanism enhancing platelet activity in hypercholesterolemia [see comments] Nofer JR, et al. **Circulation** 1997 Mar 18;95(6):1370–7. Comment in: Circulation 1997 Mar 18;95(6):1347–8.

Simply read: erythrocytes modulate platelet function. Should we rethink the way we give aspirin? [editorial; comment] Rocca B, et al. **Circulation** 1997 Jan 7;95(1):11–3. Comment on: Circulation 1997 Jan 7;95(1):63–8.

Prothrombotic effects of erythrocytes on platelet reactivity. Reduction by aspirin [see comments] Santos MT, et al. **Circulation** 1997 Jan 7;95(1):63–8. Comment in: Circulation 1997 Jan 7;95(1):11–3.

Platelet changes in patients with acute myocardial infarction treated with immediate PTCA [letter; comment] van der Loo B, et al. **Circulation** 1996 Dec 1;94(11):3001–2. Comment on: Circulation 1996 Jan 15;93(2):229–37.

Chromosome 21 and platelets: a gene dosage effect? [letter; comment] Huret JL, et al. **Clin Genet** 1997 Feb;51(2):140–1 . Comment on: Clin Genet 1996 Jan;49(1):15–9.

Thromboxane metabolite excretion in patients with hand–arm vibration syndrome. Nowak J, et al. **Clin Physiol** 1996 Jul; 16(4):361–7

Hypertrophic osteoarthropathy: endothelium and platelet function. Silveri F, et al. **Clin Rheumatol** 1996 Sep; 15(5):435–9

Platelet–streptococcal interactions in endocarditis. Herzberg MC. **Crit Rev Oral Biol Med** 1996;7(3):222–36 (117 ref.)

Cross–talk between cell adhesion molecules regulates the migration velocity of neutrophils. Rainger GE, et al. **Curr Biol** 1997 May 1;7(5):316–25

Porcine model of proliferative vitreoretinopathy with platelets. García–Layana A, et al. **Curr Eye Res** 1997 Jun; 16(6):556–63

Platelet kinetics. Dale GL. **Curr Opin Hematol** 1997 Sep; 4(5):330–4 (60 ref.)

Phosphorylation of myosin light chain in resting platelets from NIDDM patients is enhanced: correlation with spontaneous aggregation. Fukuda K, et al. **Diabetes** 1997 Mar;46(3):488–93

Deranged platelet calcium homeostasis in diabetic patients with end–stage renal failure. A possible link to increased cardiovascular mortality? Vicari AM, et al. **Diabetes Care** 1996 Oct;19(10):1062–6

Are insulin resistance and atherosclerosis the consequences of oxidative stress? [letter; comment] Wittmann I, et al. **Diabetologia** 1996 Aug;39(8):1002–3. Comment on: Diabetologia 1995 Dec;38(12):1484–5.

The role of platelets in arterial thrombosis and the rationale for blockade of platelet GPIIb/IIIa receptors as antithrombotic therapy. Coller BS. **Eur Heart J** 1995 Nov; 16 Suppl L:11–5 (29 ref.)

Calcium antagonist treatment, sympathetic activity and platelet function. Hjemdahl P, et al. **Eur Heart J** 1997 Jan; 18 Suppl A:A36–50 (105 ref.)

PTCA: periprocedural platelet activation. Part II of the Duesseldorf PTCA platelet study (DPPS) [see comments] Kolarov P, et al. **Eur Heart J** 1996 Aug;17(8):1216–22. Comment in: Eur Heart J 1996 Aug;17(8):1134–6.

Polymorphisms of platelet receptors as risk factors in coronary thrombosis [editorial] Nurden AT. **Eur Heart J** 1996 Sep;17(9):1293–4

Characterization of two vaccinia CD36 recombinant–virus–generated monoclonal antibodies (10/5, 13/10): effects on malarial cytoadherence and platelet functions. Daviet L, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):344–9

Role of catecholamines in platelet function: pathophysiological and clinical significance. Anfossi G, et al. **Eur J Clin Invest** 1996 May;26(5):353–70 (362 ref.)

Platelet membrane fluidity and intraplatelet Ca2+ mobilization are affected in uraemia. Walkowiak B, et al. **Eur J Haematol** 1997 May;58(5):350–6

TM rats: a model for platelet storage pool deficiency. Hamada S, et al. **Exp Anim** 1997 Jul;46(3):235–9

Thrombopoietin: the primary regulator of megakaryocytopoiesis and thrombopoiesis. Eaton DL, et al. **Exp Hematol** 1997 Jan;25(1):1–7 (74 ref.)

Biochemical–morphological modifications of platelet membranes during pregnancy–induced hypertension. Rabini RA, et al. **Exp Mol Pathol** 1995 Dec;63(3):175–85

Thrombospondin as a regulator of angiogenesis. DiPietro LA. **EXS** 1997;79:295–314 (74 ref.)

In vitro platelet function in controlled ovarian hyperstimulation cycles. Richard–Davis G, et al. **Fertil Steril** 1997 May;67(5):923–7

Scanning laser ophthalmoscope imaging of fluorescein–labelled blood cells. Le Gargasson JF, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jan;235(1):56–8

Increased P–selectin plasma levels in patients with thrombotic thrombocytopenic purpura. Vianelli N, et al. **Haematologica** 1996 Jan–Feb;81(1):3–7

Two mechanisms for platelet–mediated killing of tumour cells: one cyclo–oxygenase dependent and the other nitric oxide dependent [published erratum appears in Immunology 1997 May;91(1):159] Okada M, et al. **Immunology** 1996 Sep;89(1):158–64

Addition of both platelets and thrombin in combination accelerates tumor cells to adhere to endothelial cells in vitro. Helland IB, et al. **In Vitro Cell Dev Biol Anim** 1997 Mar;33(3):182–6

Physiology and function of platelets from patients with Alzheimer's disease. Rao GH, et al. **Indian J Physiol Pharmacol** 1996 Jan;40(1):5–14

Phenotypic resistance to thrombin–induced platelet microbicidal protein in vitro is correlated with enhanced virulence in experimental endocarditis due to Staphylococcus aureus. Dhawan VK, et al. **Infect Immun** 1997 Aug;65(8):3293–9

Platelets and inflammation: role of platelet–derived growth factor, adhesion molecules and histamine. Mannaioni PF, et al. **Inflamm Res** 1997 Jan;46(1):4–18 (119 ref.)

Increased platelet and coagulatory activity in peripheral atherosclerosis flow mediated platelet function is a sensitive and specific disease indicator. Reininger CB, et al. **Int Angiol** 1996 Dec;15(4):335–43

Influence of endothelial mediators on the vascular smooth muscle and circulating platelets and blood cells. Warner TD. **Int Angiol** 1996 Jun;15(2):93–9 (69 ref.)

Platelets mediate tumor cell adhesion to the subendothelium under flow conditions: involvement of platelet GPIIb–IIIa and tumor cell alpha(v) integrins. Dardik R, et al. **Int J Cancer** 1997 Jan 17;70(2):201–7

Platelet–neutrophil interactions in sepsis––platelet guilt by association? [editorial; comment] Heffner JE. **Intensive Care Med** 1997 Apr;23(4):366–8. Comment on: Intensive Care Med 1997 Apr;23(4):379–85.

Potential role of platelets and coagulation factors in the metastasis of prostatic cancer. Bhatti RA, et al. **Invasion Metastasis** 1996;16(2):49–55

Platelet–dependent thrombin generation in patients with hyperlipidemia. Aoki I, et al. **J Am Coll Cardiol** 1997 Jul; 30(1):91–6

Role of platelets in restenosis after percutaneous coronary revascularization. Le Breton H, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1643–51 (107 ref.)

Studies on platelet membrane glycoproteins and platelet function during hemodialysis. Sloand JA, et al. **J Am Soc Nephrol** 1997 May;8(5):799–803

Platelets attenuate oxidant–induced permeability in

endothelial monolayers: glutathione-dependent mechanisms. Strange C, et al. **J Appl Physiol** 1996 Oct; 81(4):1701-6

Thrombspondin acts via integrin-associated protein to activate the platelet integrin alphaIIbbeta3. Chung J, et al. **J Biol Chem** 1997 Jun 6;272(23):14740-6

Reversible translocation of phosphoinositide 3-kinase to the cytoskeleton of ADP-aggregated human platelets occurs independently of Rho A and without synthesis of phosphatidylinositol (3,4)-bisphosphate. Gachet C, et al. **J Biol Chem** 1997 Feb 21;272(8):4850-4

D3 phosphoinositides and outside-in integrin signaling by glycoprotein IIb-IIIa mediate platelet actin assembly and filopodial extension induced by phorbol 12-myristate 13-acetate. Hartwig JH, et al. **J Biol Chem** 1996 Dec 20; 271(51):32986-93

Identification and characterization of CD39/vascular ATP diphosphohydrolase. Kaczmarek E, et al. **J Biol Chem** 1996 Dec 20;271(51):33116-22

Calpain regulation of cytoskeletal signaling complexes in von Willebrand factor-stimulated platelets. Distinct roles for glycoprotein Ib-V-IX and glycoprotein IIb-IIIa (integrin alphaIIbbeta3) in von Willebrand factor-induced signal transduction. Yuan Y, et al. **J Biol Chem** 1997 Aug 29; 272(35):21847-54

Fibrinogen binding and platelet retention: relationship with the thrombogenicity of catheters. Bailly AL, et al. **J Biomed Mater Res** 1996 Jan;30(1):101-8

Platelet interaction with pyrolytic carbon heart-valve leaflets. Goodman SL, et al. **J Biomed Mater Res** 1996 Oct;32(2):249-58

Platelet adhesion to novel phospholipid materials: modified phosphatidylcholine covalently immobilized to silica, polypropylene, and PTFE materials. Köhler AS, et al. **J Biomed Mater Res** 1996 Oct;32(2):237-42

A cone-and-plate device for the investigation of platelet biomaterial interactions. Skarja GA, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):427-38

Endothelium and platelet activity in heart failure. Bassenge E, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S203-8 (25 ref.)

Safety and efficacy of aprotinin in profoundly hypothermic circulatory arrest. Westaby S. **J Card Surg** 1997 Mar-Apr; 12(2 Suppl):207-13 (32 ref.)

Platelet activation and interactions with the microvasculature. Body SC. **J Cardiovasc Pharmacol** 1996; 27 Suppl 1:S13-25 (77 ref.)

Amplification of the inflammatory response: adhesion molecules associated with platelet/white cell responses. Rinder C, et al. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:S6-12 (41 ref.)

Transcellular activation of platelets and endothelial cells by bioactive lipids in platelet microparticles. Barry OP, et al. **J Clin Invest** 1997 May 1;99(9):2118-27

Vitamin C blocks inflammatory platelet-activating factor mimetics created by cigarette smoking [see comments] Lehr HA, et al. **J Clin Invest** 1997 May 15;99(10):2358-64. Comment in: J Clin Invest 1997 May 15;99(10):2300-1.

In vitro evaluation of the effects of transportation and storage on platelet concentrates. Lo SC, et al. **J Formos Med Assoc** 1997 Mar;96(3):189-93

Human platelets can initiate T cell-dependent contact sensitivity through local serotonin release mediated by IgE antibodies. Matsuda H, et al. **J Immunol** 1997 Mar 15; 158(6):2891-7

Role of adhesion molecules and platelets in TNF-induced adhesion of tumor cells to endothelial cells: implications for experimental metastasis. Stoelcker B, et al. **J Inflamm** 1995-96;46(3):155-67

Platelets play a role in the pathogenesis of the irritant reaction in mice. Senaldi G, et al. **J Invest Dermatol** 1997 Mar; 108(3):248-52

Interleukin-2 induces increased platelet-endothelium interactions: a potential mechanism of toxicity. Lentsch AB, et al. **J Lab Clin Med** 1996 Jul;128(1):75-82

Gender-specific correlation of platelet ionized magnesium and serum low-density-lipoprotein cholesterol concentrations in apparently healthy subjects. Niemela JE, et al. **J Lab Clin Med** 1997 Jan;129(1):89-96

Adhesion and activation of platelets and polymorphonuclear granulocyte cells at TiO2 surfaces. Nygren H, et al. **J Lab Clin Med** 1997 Jan;129(1):35-46

Sequential potentiation and inhibition of PMN reactivity by maximally stimulated platelets. Aziz KA, et al. **J Leukoc Biol** 1997 Mar;61(3):322-8

Feasibility of a rapid method to evaluate platelet survival time. Baroli A, et al. **J Nucl Med** 1997 Jun;38(6):977-9

Effects of oral flora on platelets: possible consequences in cardiovascular disease. Herzberg MC, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1138-42

Role of platelets in myocardial ischemia-reperfusion injury in dogs. Shimada Y, et al. **Jpn Circ J** 1997 Mar;61(3):241-8

Successful determination of platelet lifespan in C3H mice by in vivo biotinylation. Manning KL, et al. **Lab Anim Sci** 1996 Oct;46(5):545-8

Acute myocardial infarction plasma augments platelet thrombus growth in high shear rates [letter] Goto S, et al. **Lancet** 1997 Feb 22;349(9051):543-4

Bleeding time and platelet function in essential thrombocythemia and other myeloproliferative syndromes. Finazzi G, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:71-8 (88 ref.)

Thrombopoietin and the physiology of platelet production [editorial] Kaushansky K. **Leuk Res** 1996 Sep;20(9):705-7

Platelets and antiphospholipid antibodies. Machin SJ. **Lupus** 1996 Oct;5(5):386-7 (6 ref.)

Effects of 0-/-B-hydroxyethyl/rutoside on platelet function and thrombus formation in rat mesenteric vessels. Krupiński K, et al. **Mater Med Pol** 1995 Apr-Jun;27(2):39-42

The omnipotent platelet. Part II: Further observations. Steinberg LA. **Med Hypotheses** 1997 Jul;49(1):15-7

Electron spin resonance for spin trapping of 3,5-dibromo-4-nitrosobenzene sulfonate. Ichimori K, et al. **Methods Enzymol** 1996;268:203-11

Bleeding diathesis is uremic patients treated with peritoneal dialysis: role of platelet glycoproteins GPIb and GPIIb/IIIa abnormalities [letter; comment] Liani M, et al. **Nephron** 1996;74(1):234. Comment on: Nephron 1994;68(4):442-8. Comment on: Nephron 1996;72(4):716.

Intracutaneous injections of platelets cause acute pain and protracted hyperalgesia. Schmelz M, et al. **Neurosci Lett** 1997 May 2;226(3):171-4

Detection of microplatelet formation using an electroimpedance cell counter. Kawasaka K, et al. **Osaka City Med J** 1994 Jul;40(1):13-8

Comprehensive study on platelet function, hemostasis, fibrinolysis, peripheral serotonergic system and serum lipids in nephrotic syndrome. Małyszko J, et al. **Pol J Pharmacol** 1996 Mar-Apr;48(2):191-5

Platelet membrane fluidity and intraplatelet Ca2+ homeostasis are affected in uremia. Walkowiak B, et al. **Pol J Pharmacol** 1996 May-Jun;48(3):299-302

In vivo tracking of platelets: circulating degranulated platelets rapidly lose surface P-selectin but continue to circulate and function. Michelson AD, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11877-82

Immunocytochemical aspects of platelet membrane glycoproteins and adhesive proteins during activation. Suzuki H, et al. **Prog Histochem Cytochem** 1996;30(1):1-106 (495 ref.)

Antithrombotic effects of endocardial endothelial cells-comparison with coronary artery endothelial cells. Nosaka S, et al. **Prostaglandins** 1997 May;53(5):305-19

PGE1-induced arterial thromboresistance is a vascular property as identified by cross-perfusion technique. Sinzinger H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):325-30

Effects of platelet activating factor on the distribution of radiolabelled leucocytes and platelets in normal horses and asymptomatic horses with chronic obstructive pulmonary disease. Fairbairn SM, et al. **Res Vet Sci** 1996 Sep; 61(2):107-13

The assessment of functional status of blood platelets in patients infected with Giardia intestinalis after anti-parasitic treatment. Matowicka-Karna J, et al. **Rocz Akad Med Bialymst** 1995;40(2):250-9

Serine/threonine dephosphorylation may be involved in tyrosine phosphorylation: a new mode of signal transduction in platelets. Artçanuthurry V, et al. **Semin Thromb Hemost** 1996;22(4):317-26

Thrombopoietin modulates platelet activation in vitro through protein-tyrosine phosphorylation. Kubota Y, et al. **Stem Cells** 1996 Jul;14(4):439-44

The importance of platelets in the expression of monocyte tissue factor antigen measured by a new whole blood flow cytometric assay. Amirkhosravi A, et al. **Thromb Haemost** 1996 Jan;75(1):87-95

Thrombin, fibrin and platelets: a resonance loop in which von Willebrand factor is a necessary link. Béguin S, et al. **Thromb Haemost** 1997 Jul;78(1):590-4 (30 ref.)

Heparin ablates force development during platelet mediated clot retraction. Carr ME Jr, et al. **Thromb Haemost** 1996 Apr;75(4):674-8

Deficiency of (33P)2MeS-ADP binding sites on platelets with secretion defect, normal granule stores and normal thromboxane A2 production. Evidence that ADP potentiates platelet secretion independently of the formation of large platelet aggregates and thromboxane A2 production. Cattaneo M, et al. **Thromb Haemost** 1997 May; 77(5):986-90

The integrin alpha 2 beta 1 (GPIa/IIa)-I-domain inhibits platelet-collagen interaction. Depraetere H, et al. **Thromb Haemost** 1997 May;77(5):981-5

Desmopressin (DDAVP) enhances platelet adhesion to the extracellular matrix of cultured human endothelial cells through increased expression of tissue factor. Gálvez A, et al. **Thromb Haemost** 1997 May;77(5):975-80

Regulation of serum thrombopoietin levels by platelets and megakaryocytes in patients with aplastic anaemia and idiopathic thrombocytopenic purpura. Ichikawa N, et al. **Thromb Haemost** 1996 Aug;76(2):156-60

Defective interaction between von Willebrand factor and platelet glycoprotein Ib--a familial study of peripheral arterial occlusive disease. Kauhanen P, et al. **Thromb Haemost** 1997 May;77(5):849-55

A3 domain is essential for interaction of von Willebrand factor with collagen type III. Lankhof H, et al. **Thromb Haemost** 1996 Jun;75(6):950-8

Detection of platelet adhesion/aggregation to immobilized ligands on microbeads by an aggregometer. Minamoto Y, et al. **Thromb Haemost** 1996 Dec;76(6):1072-9

Defective signal transduction through the thromboxane A2 receptor in a patient with a mild bleeding disorder: deficiency of the inositol 1,4,5-triphosphate formation despite normal G-protein activation. Mitsui T, et al. **Thromb Haemost** 1997 May;77(5):991-5

N-3 fatty acid-induced lipid peroxidation in human platelets is prevented by catechins. Polette A, et al. **Thromb Haemost** 1996 Jun;75(6):945-9

Platelet hyporeactivity in very low birth weight neonates. Rajasekhar D, et al. **Thromb Haemost** 1997 May; 77(5):1002-7

Aggregation of human blood platelets by remnant like lipoprotein particles of plasma chylomicrons and very low density lipoproteins. Saniabadi AR, et al. **Thromb Haemost** 1997 May;77(5):996-1001

Not just another pretty face: regulation of platelet function at the cytoplasmic face of integrin alpha IIb beta 3. Shattil SJ, et al. **Thromb Haemost** 1997 Jul;78(1):220-5 (61 ref.)

Erythropoietin potentiates thrombus development in a canine arterio-venous shunt model. Wolf RF, et al. **Thromb Haemost** 1997 May;77(5):1020-4

Involvement of phosphoprotein phosphatase 1 in collagen-platelet interaction. Chiang TM, et al. **Thromb Res** 1996 Dec 15;84(6):399-409

Platelets inhibit the activity of platelet-activating factor acetylhydrolase in monocyte-derived macrophages. Pennewitz A, et al. **Thromb Res** 1997 Jun 1;86(5):427-30

The prostacyclin stimulating plasma factor activity improves thromboresistance only if vascular PGI2-production is intact. Sinzinger H, et al. **Thromb Res** 1996 Dec 15; 84(6):475-80

Ex-vivo and in-vivo platelet function in patients with severe hypercholesterolemia undergoing LDL-apheresis. Sinzinger H, et al. **Thromb Res** 1996 May 15;82(4):291-301

The thrombocytopenic rabbit bleeding time model to evaluate the in vivo hemostatic efficacy of platelets and platelet substitutes. Blajchman MA, et al. **Transfus Med Rev** 1997 Apr;11(2):95-105 (51 ref.)

In vitro assessment of platelet function. Carr ME Jr. **Transfus Med Rev** 1997 Apr;11(2):106-15 (55 ref.)

The platelet storage lesion. Seghatchian J, et al. **Transfus Med Rev** 1997 Apr;11(2):130-44 (75 ref.)

Platelet-endothelial cell interactions in a xenograft model. Bustos M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):886

Accumulation of platelets in rat syngeneic lung transplants: a potential factor responsible for preservation-reperfusion injury. Okada Y, et al. **Transplantation** 1997 Sep 27; 64(6):801-6

Platelets and coagulation. An update. Boudreaux MK. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1065-87 (161 ref.)

Inhibition by platelets of in vitro blastogenic responses of canine PBMC by a PAF-dependent mechanism. Schreuer D, et al. **Vet Immunol Immunopathol** 1996 Jul;52(3):135-45

Platelet dysfunction associated with experimental acute canine ehrlichiosis. Harrus S, et al. **Vet Rec** 1996 Sep 21; 139(12):290-3

In vitro evaluation of the hemostatic effectiveness of non viable platelet preparations: studies with frozen-thawed, sonicated or lyophilized platelets. Alemany M, et al. **Vox Sang** 1997;73(1):36-42

[Interaction of adenosine with leukocytes and thrombocytes] Becker BF, et al. **Z Kardiol** 1996;85 Suppl 6:161-70 (Eng. Abstr.) **(Ger)**

[Role of neutrophil granulocytes and platelets in the pathology of microcirculation] Ambrosio G, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):13-6 **(Ita)**

[Vascular responsiveness of platelet activating factor--with special reference to its action in the presence of platelets] Michibayashi T. **J Smooth Muscle Res** 1996 Oct; 32(5):195-202 (Eng. Abstr.) **(Jpn)**

[Changes in platelet sensitivity to thromboxane A2 in pediatric patients with nephrotic syndrome] Watanabe M, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug;38(8):356-63 (Eng. Abstr.) **(Jpn)**

[Etiology of thrombosis: relationship to blood platelets] Takayama H. **Nippon Naika Gakkai Zasshi** 1997 Jun 10; 86(6):897-902 **(Jpn)**

[Analysis of mechanism of increased platelet counts during preoperative autologous blood donation] Dowaki Y, et al. **Rinsho Byori** 1997 Jan;45(1):72-6 (Eng. Abstr.) **(Jpn)**

[Adherent reaction among activated platelets, polymorphonuclear cells and vascular endothelial cells under thrombin stimulation or shear stress] Kageoka T, et al. **Rinsho Byori** 1996 Aug;44(8):757-63 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Regulation of megakaryocyte and platelet production] Nagasawa T, et al. **Rinsho Ketsueki** 1997 Apr;38(4):241-4 (17 ref.) **(Jpn)**

[Blood platelets and fibrinolysis in ischemic heart disease] Jastrzębska M. **Pol Merkuriusz Lek** 1996 Aug;1(2):135-8 (44 ref.) (Eng. Abstr.) **(Pol)**

[Interaction of monocytes and blood platelets in vascular wall diseases] Giedrojć J. **Postepy Hig Med Dosw** 1996; 50(3):265-76 (69 ref.) (Eng. Abstr.) **(Pol)**

[Thrombocytic hemostasis in patients with severe craniocerebral trauma] Churliaev IuA, et al. **Anesteziol Reanimatol** 1996 Sep-Oct;(5):14-7 (Eng. Abstr.) **(Rus)**

[Hyperbaric oxygenation and antiaggregants: effects on platelet function in patients with ischemic heart disease] Seriakov VV, et al. **Anesteziol Reanimatol** 1997 Mar-Apr; (2):31-3 (Eng. Abstr.) **(Rus)**

[Hypoxia and vascular-platelet hemostasis in patients with acute coronary insufficiency] Shvarts IuG, et al.

Anesteziol Reanimatol 1997 Jan-Feb;(1):18-20 (Eng. Abstr.) **(Rus)**

[The diagnostic and therapeutic significance of thrombocyte functional activity and the factors in its regulation in chronic diseases of the large intestine] Khadzhiev AK, et al. **Ter Arkh** 1997;69(2):32-4 (Eng. Abstr.) **(Rus)**

[The megakaryocyte-thrombocyte system] Ermolaeva TA, et al. **Vestn Ross Akad Med Nauk** 1996;(12):34-43 (56 ref.) (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Generation of interleukin 8 in stored apheresis platelet concentrates and the preventive effect of prestorage ultraviolet B radiation. Fujihara M, et al. **Transfusion** 1997 May;37(5):468-75

RADIONUCLIDE IMAGING

111Indium platelet accumulation as a predictor of vessel occlusion [letter; comment] Rose MR, et al. **Clin Radiol** 1997 Mar;52(3):247. Comment on: Clin Radiol 1996 Jul;51(7):507-10.

Pre-clinical evaluation of technetium-99m platelet receptor-binding peptide. Lister-James J, et al. **J Nucl Med** 1997 Jan;38(1):105-11

Methodological reappraisal of platelet radiolabelling with 111indium [letter; comment] Rodrigues M, et al. **Nucl Med Biol** 1996 Nov;23(8):1023-5. Comment on: Nucl Med Biol 1995 Apr;22(3):399-403.

SECRETION

Circadian release of serotonin across the coronary bed in patients with endothelial dysfunction. Murakami Y, et al. **Am J Cardiol** 1997 Jul 15;80(2):214-6

Storage pool disease in chronic lymphocytic leukemia: abnormal aggregation and secretion without bleeding. Carr ME Jr, et al. **Am J Med Sci** 1997 Mar;313(3):176-81

Regulated secretion in platelets: identification of elements of the platelet exocytosis machinery. Lemons PP, et al. **Blood** 1997 Aug 15;90(4):1490-500

Correlation between cytosolic Ca2+ concentration, protein phosphorylation and platelet secretion. Dalla Via L, et al. **Cell Calcium** 1996 Nov;20(5):431-40

Comparison of beta-thromboglobulin, flow cytometry, and platelet aggregometry to study platelet activation. Matzdorff AC, et al. **Haemostasis** 1996 Mar-Apr; 26(2):98-106

Endocytosis, storage, and release of IgE by human platelets: differences in patients with type I allergy and nonatopic subjects. Klouche M, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):235-41

The role of monocytes in the platelet release of von Willebrand factor. Giedrojć J, et al. **Rocz Akad Med Bialymst** 1996;41(2):463-9

Thrombin-activated human platelets release two NAP-2 variants that stimulate polymorphonuclear leukocytes. Piccardoni P, et al. **Thromb Haemost** 1996 Nov;76(5):780-5

Fibrinopeptide A release from intraplatelet fibrinogen is related to thrombin platelet activation. Vila V, et al. **Thromb Res** 1997 May 1;86(3):263-9

Chelerythrine inhibits the secretory response of human blood platelets without specifically inhibiting protein kinase C. Lane T, et al. **Tokai J Exp Clin Med** 1996 Jun;21(2):61-7

Time-dependent, spontaneous release of white cell- and platelet-derived bioactive substances from stored human blood. Nielsen HJ, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):960-5

[Release of intracellular granule contents in platelets] Ozaki Y. **Nippon Rinsho** 1997 Mar;55 Suppl 1:109-12 (5 ref.) **(Jpn)**

TRANSPLANTATION see PLATELET TRANSFUSION

ULTRASONOGRAPHY

New fluorescent octadecapentaenoic acids as probes of lipid membranes and protein-lipid interactions. Mateo CR, et al. **Biophys J** 1996 Oct;71(4):2177-91

Measurement of human platelet microaggregates by a new method: ultrasonic interferometry. Chabance B, et al. **J Lab Clin Med** 1996 Mar;127(3):296-302

Images in clinical medicine. Platelet aggregate. **N Engl J Med** 1997 Mar 27;336(13):923

ULTRASTRUCTURE

Ultrastructural studies of platelet aggregates from human subjects receiving clopidogrel and from a patient with an inherited defect of an ADP-dependent pathway of platelet activation. Humbert M, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1532-43

Photo-immobilization of dipyridamole (Persantin) at the surface of polyurethane biomaterials: reduction of in-vitro thrombogenicity. Aldenhoff YB, et al. **Biomaterials** 1997 Jan;18(2):167-72

Ultrastructure of platelet formation by human megakaryocytes cultured with the Mpl ligand. Cramer EM, et al. **Blood** 1997 Apr 1;89(7):2336-46

Platelet and megakaryocyte dense granules contain glycoproteins Ib and IIb-IIIa. Youssefian T, et al. **Blood** 1997 Jun 1;89(11):4047-57

Immunoelectron microscopic changes of the platelet plasma membrane after activation. Cramer E, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):172-7 (21 ref.)

Changes in the composition of the platelet cytoskeleton in response to ADP: effects of MK-852 and ARL 66096. May JA, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):221-4

Platelet-derived microparticles in alloxan-induced diabetes in rabbits. Suzuki M, et al. **Haemostasis** 1996 Jul-Aug; 26(4):228-32

Familial macrothrombocytopenia with unusually elongated mitochondria. Yamada K, et al. **Intern Med** 1995 Nov; 34(11):1140-3

Decreased serglycin proteoglycan size is associated with the platelet alpha granule storage defect in Wistar Furth hereditary macrothrombocytopenic rats. Serglycin binding affinity to type I collagen is unaltered. Schick BP, et al. **J Cell Physiol** 1997 Jul;172(1):87-93

Subcellular changes in platelets in acute and subacute African swine fever. Gómez-Villamandos JC, et al. **J Comp Pathol** 1996 Nov;115(4):327-41

High-resolution backscatter electron detection of cell surface molecules on human platelets using the double-layer coating method and cryo field emission scanning electron microscopy. Erlandsen SL, et al. **Scanning** 1997 Aug; 19(5):356-60

Use of the cytocentrifuge to prepare whole mounts of platelets for ultrastructural studies. Murti AK, et al. **Scanning** 1997 Apr;19(3):238-9

Deficiency of (33P)2MeS-ADP binding sites on platelets with secretion defect, normal granule stores and normal thromboxane A2 production. Evidence that ADP potentiates platelet secretion independently of the formation of large platelet aggregates and thromboxane A2 production. Cattaneo M, et al. **Thromb Haemost** 1997 May; 77(5):986-90

A new flow cytometry method of platelet-derived microvesicle quantitation in plasma [letter] Combes V, et al. **Thromb Haemost** 1997 Jan;77(1):220

Agonist-induced actin polymerization is required for the irreversibility of platelet aggregation. Torti M, et al. **Thromb Haemost** 1996 Sep;76(3):444-9

Mean platelet volume, platelet count and platelet dimensional width during hemodialysis. Ozdemir O, et al. **Thromb Res** 1997 Jun 1;86(5):405-8

Impala, Aepyceros melampus, platelets: count, morphology, and morphometric observations. du Plessis L, et al. **Tissue Cell** 1997 Apr;29(2):217-20

[Study on ultrastructure of platelets in migraine patients with blood stasis type] Wang DN, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Dec; 15(12):716-8 (Eng. Abstr.) **(Chi)**

[Electron microscopic and cytochemical data on the interaction between endothelial cells and thrombocytes] Staubesand J, et al. **Arkh Anat Gistol Embriol** 1981 Dec; 81(12):65-72 (Eng. Abstr.) **(Rus)**

VIROLOGY

Thrombocytopenia and AIDS: possible direct role of HIV [letter] Borgia G, et al. **AIDS** 1996 Nov;10(13):1606-8

The presence of free infectious cytomegalovirus (CMV) in the plasma of donated CMV-seropositive blood and platelets. James DJ, et al. **Transfus Med** 1997 Jun;7(2):123-6

Photochemical inactivation of viruses and bacteria in platelet concentrates by use of a novel psoralen and long-wavelength ultraviolet light. Lin L, et al. **Transfusion** 1997 Apr;37(4):423-35

Psoralen-mediated photodecontamination of platelet concentrates: inactivation of cell-free and cell-associated forms of human immunodeficiency virus and assessment of platelet function in vivo. Margolis-Nunno H, et al. **Transfusion** 1997 Sep;37(9):889-95

[Viral attenuation of labile blood products] Folléa G, et al. **Transfus Clin Biol** 1996;3(2):113-23 (84 ref.) (Eng. Abstr.) **(Fre)**

BLOOD POISONING see SEPTICEMIA

BLOOD PRESERVATION

Transfusion of autologous, hydroxyethyl starch-cryopreserved red blood cells. Horn EP, et al. **Anesth Analg** 1997 Oct;85(4):739-45

Exchange transfusion with red blood cells preserved in adenine clears a child of severe falciparum malaria. Boctor FN, et al. **Ann Clin Lab Sci** 1997 May-Jun;27(3):193-5

Effect of storage on serum vitamin B12 and folate stability. Komaromy-Hiller G, et al. **Ann Clin Lab Sci** 1997 Jul-Aug; 27(4):249-53

The effect of storage on Guthrie cards: implications for deoxyribonucleic acid amplification. Makowski GS, et al. **Ann Clin Lab Sci** 1996 Sep-Oct;26(5):458-69

Carboxyhemoglobin after blood storage [letter] Díaz JE, et al. **Ann Emerg Med** 1997 Aug;30(2):239-40

Lipoprotein(a) in stored plasma samples and the ravages of time. Why epidemiological studies might fail. Kronenberg F, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec; 16(12):1568-72

Immunocompetence of T lymphocytes during whole-blood storage. Guerra M, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:125-9

Storage of peripheral blood stem cell samples alters flow cytometric CD34+ results. Gutensohn K, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:170-4

Flash freezing of erythrocyte suspensions. Mantzavinos D, et al. **Biorheology** 1997 Jan-Feb;34(1):73-83

Red blood cell depletion and cryopreservation of umbilical cord blood (UCB) [letter; comment] Bruno A, et al. **Bone Marrow Transplant** 1997 Jul;20(1):89-90. Comment on: Bone Marrow Transplant 1996 Oct;18(4):725-31.

Effect of storage at -70 degrees C on lipid, lipoprotein and apolipoprotein concentrations. Evans K, et al. **Clin Chim Acta** 1997 Feb 17;258(2):219-29

High-efficiency recovery of immature haematopoietic progenitor cells with extensive proliferative capacity from human cord blood cryopreserved for 10 years. Broxmeyer HE, et al. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:45-53

In vitro stability of the reticulocyte count. Cavill I, et al. **Clin Lab Haematol** 1996 Dec;18 Suppl 1:9-11

Effects of cryopreservation of immune responses. XI. Heightened secretion of tumor necrosis factor-alpha by frozen human peripheral blood mononuclear cells. Venkataraman M. **Cryobiology** 1997 May;34(3):276-83

Horse plasma lactate determinations: comparison of wet and dry chemistry methods and the effect of storage [see comments] Williamson CC, et al. **Equine Vet J** 1996 Sep; 28(5):406-8. Comment in: Equine Vet J 1996 Sep;28(5):337-8.

Effect of blood storage on erythrocyte/wall interactions: implications for surface charge and rigidity. Godin C, et al. **Eur Biophys J** 1997;26(2):175-82

Procalcitonin--influence of temperature, storage, anticoagulation and arterial or venous asservation of blood samples on procalcitonin concentrations. Meisner M, et al. **Eur J Clin Chem Clin Biochem** 1997 Aug;35(8):597-601

Leucocyte and platelet derived bioactive substances in stored standard platelet concentrates [letter] Edvardsen L, et al. **Eur J Haematol** 1996 Aug;57(2):185-7

Measurement of transmitted light as an indicator of cryopreserved platelet viability. Arnaud F, et al. **Haemostasis** 1996 Mar-Apr;26(2):107-16

Morphological & ultrastructural changes of platelet concentrates stored in PVC bags. Krishnan LK, et al. **Indian J Med Res** 1997 Feb;105:77-84

Biochemical lesions of platelets stored as concentrates in PVC bags. Krishnan LK, et al. **Indian J Med Res** 1997 Feb;105:85-92

Analysis of cytokine profiles of stored CPDA-1 whole blood. Grunenberg R, et al. **Infusionsther Transfusionsmed** 1995 Oct;22(5):292-4

Erythrothrombocytapheresis and plasmathrombocytapheresis with storage in T-sol of platelets collected by the new Amicus cell separator. Valbonesi M, et al. **Int J Artif Organs** 1997 May;20(5):272-6

Effects of antifreeze proteins on red blood cell survival during cryopreservation. Chao H, et al. **J Exp Biol** 1996 Sep;199 (Pt 9):2071-6

Effects of cryopreservation on immune responses: IX. Stimulus-mediated dichotomy in IL-10 production by frozen human peripheral blood mononuclear cells. Venkataraman M. **J Hematother** 1996 Jun;5(3):301-8

Changes in the polymorphonuclear leukocyte function of blood samples induced by storage time, temperature and agitation. Egger G, et al. **J Immunol Methods** 1997 Aug 7;206(1-2):61-71

Effect of cold exposure on platelet concentrates: changes in platelet indices and aggregation states. Charuruks N, et al. **J Med Assoc Thai** 1997 Jan;80(1):56-62

Stability of HIV-1 RNA in blood during specimen handling and storage prior to amplification by NASBA-QT. Bruisten SM, et al. **J Virol Methods** 1997 Sep;67(2):199-207

Storage of newborn stem cells for future use [letter; comment] Repke JT, et al. **Obstet Gynecol** 1997 Jun; 89(6):1049-50. Comment on: Obstet Gynecol 1997 Feb;89(2):300-3.

Storage of newborn stem cells for future use [see comments] Wiley JM, et al. **Obstet Gynecol** 1997 Feb;89(2):300-3. Comment in: Obstet Gynecol 1997 Jun;89(6):1049-50.

Neurone-specific enolase and Sangtec 100 assays during cardiac surgery: Part II--Must samples be spun within 30 min? Sapsed-Byrne S, et al. **Perfusion** 1997 May; 12(3):167-9

Soluble P-selectin as parameter for platelet activation during storage. Kostelijk EH, et al. **Thromb Haemost** 1996 Dec; 76(6):1086-9

Improved in-vitro quality of platelet concentrates stored in a dextrose-free synthetic medium. Farrugia A, et al. **Transfus Med** 1991 Mar;1(1):31-8

Comparison of in vivo red cell survival of donations collected by Haemonetics MCS versus conventional collection. Regan F, et al. **Transfus Med** 1997 Mar;7(1):25-8

The platelet storage lesion. Seghatchian J, et al. **Transfus Med Rev** 1997 Apr;11(2):130-44 (75 ref.)

Inhibitory effect of 0 degree C storage on the proliferation of Yersinia enterocolitica in donated blood. Bradley RM, et al. **Transfusion** 1997 Jul;37(7):691-5

Inhibition of cytokine accumulation and bacterial growth during storage of platelet concentrates at 4 degrees C with retention of in vitro functional activity. Currie LM, et al. **Transfusion** 1997 Jan;37(1):18-24

Generation of interleukin 8 in stored apheresis platelet concentrates and the preventive effect of prestorage ultraviolet B radiation. Fujihara M, et al. **Transfusion** 1997 May;37(5):468-75

The effect of hypotonicity, glutamine, and glycine on red cell preservation. Greenwalt TJ, et al. **Transfusion** 1997

Mar;37(3):269–76
The expression of p-selectin during collection, processing, and storage of platelet concentrates: relationship to loss of in vivo viability. Holme S, et al. **Transfusion** 1997 Jan; 37(1):12–7
Studies on platelets exposed to or stored at temperatures below 20 degrees C or above 24 degrees C. Holme S, et al. **Transfusion** 1997 Jan;37(1):5–11
Complement activation during storage of whole blood, red cells, plasma, and buffy coat. Hyllner M, et al. **Transfusion** 1997 Mar;37(3):264–8
Impact of buffy coat storage on the generation of inflammatory cytokines and platelet activation. Klüter H, et al. **Transfusion** 1997 Apr;37(4):362–7
Loss of high-affinity thrombin receptors during platelet concentrate storage impairs the reactivity of platelets to thrombin. Lozano ML, et al. **Transfusion** 1997 Apr; 37(4):368–75
Growth of bacteria in platelet concentrates obtained from whole blood stored for 16 hours at 22 degrees C before component preparation. Sanz C, et al. **Transfusion** 1997 Mar;37(3):251–4
Generation of cytokines in red cell concentrates during storage is prevented by prestorage white cell reduction. Shanwell A, et al. **Transfusion** 1997 Jul;37(7):678–84
Evaluation of storage conditions of platelet concentrates prepared from pooled buffy coats. de Wildt-Eggen J, et al. **Vox Sang** 1996;70(1):11–5
Studies in red blood cell preservation 10. 51Cr recovery of red cells after liquid storage in a glycerol-containing additive solution. Greenwalt TJ, et al. **Vox Sang** 1996; 70(1):6–10
Size and shape change behaviour of platelets during storage in response to hypotonic shock [letter] Jung G, et al. **Vox Sang** 1996;70(1):50–2
Influence of antioxidants on the quality of stored blood. Racek J, et al. **Vox Sang** 1997;72(1):16–9
Clumps present in platelet concentrates are formed from fibronectin [letter] Rácz Z. **Vox Sang** 1996;71(4):242
Prestorage leukocyte reduction with in-line filtration of whole blood: evaluation of red cells and plasma storage. Rapaille A, et al. **Vox Sang** 1997;73(1):28–35
Leukocyte depletion and storage of single-donor platelet concentrates. Weisbach V, et al. **Vox Sang** 1997;72(1):20–5
[Lipid peroxidation and hemolysis in HES cryopreserved erythrocytes] Langer R, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:111–6 (Eng. Abstr.) **(Ger)**
[Cryopreservation of erythrocytes: detailed quality control] Lippert S, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:117–20 (Eng. Abstr.) **(Ger)**
[Storage-induced rheologic and biochemical changes in erythrocyte concentrates with added solution and possible correlations] Mansouri Taleghani B, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:141–4 (Eng. Abstr.) **(Ger)**
[Elimination of hydroxyethyl starch after autologous retransfusion of cryopreserved erythrocytes] Sputtek A, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:215–9 (Eng. Abstr.) **(Ger)**
[Rheologic changes in stored erythrocyte concentrates] Zilow EP, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:136–40 (Eng. Abstr.) **(Ger)**
[Hemorheological effects of autologous blood storage before surgery for cardiac valvular diseases] Ichikawa H, et al. **J Cardiol** 1997;29 Suppl 2:37–40 (Eng. Abstr.) **(Jpn)**
[Hemoprotective effect of perfluorodecalin] Skorik VI, et al. **Biull Eksp Biol Med** 1996 May;121(5):512–5 **(Rus)**
[The preservability of carboxyhemoglobin in cadaveric blood] Dobroriz AM, et al. **Sud Med Ekspert** 1997 Jul-Sep; 40(3):23 (Eng. Abstr.) **(Rus)**
[Modezhel' erythrocyte preservative as an experimental and clinical blood substitute] Selivanov EA, et al. **Vestn Khir Im I I Grek** 1996;(1):71–4 (Eng. Abstr.) **(Rus)**
[Stability and extinction curve of carboxyhemoglobin in preserved blood (letter)] Bascuñana J, et al. **Arch Bronconeumol** 1996 Jan;32(1):50 **(Spa)**

ADVERSE EFFECTS

The storage lesion of platelets: ultrastructural and functional aspects. Klinger MH. **Ann Hematol** 1996 Sep;73(3):103–12 (102 ref.)
Transfusing red blood cells stored in citrate phosphate dextrose adenine-1 for 28 days fails to improve tissue oxygenation in rats [see comments] Fitzgerald RD, et al. **Crit Care Med** 1997 May;25(5):726–32. Comment in: Crit Care Med 1997 May;25(5):723–4.
Effects of blood transfusion on oxygen uptake: old concepts adapted to new therapeutic strategies? [editorial; comment] Van der Linden P, et al. **Crit Care Med** 1997 May; 25(5):723–4. Comment on: Crit Care Med 1997 May;25(5):726–32.
Effect of temperature on functional response of platelet concentrates stored in PVC bags. Krishnan LK, et al. **Indian J Med Res** 1997 Mar;105:117–24

INSTRUMENTATION

Comparison of EDTA and acid-citrate-dextrose collection tubes for detection of cytomegalovirus antigenemia and infectivity in leukocytes before and after storage. Landry ML, et al. **J Clin Microbiol** 1997 Jan;35(1):305–6

METHODS

Chemistry specimen acceptability: a College of American Pathologists Q-Probes study of 453 laboratories. Jones BA, et al. **Arch Pathol Lab Med** 1997 Jan;121(1):19–26
Reusing the same blood-stained punch for sequential DNA amplifications and typing. Del Rio SA, et al. **Biotechniques** 1996 Jun;20(6):970–2, 974
The effects of a simplified method for cryopreservation and thawing procedures on peripheral blood stem cells. Katayama Y, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):283–7
Autologous stem cell transplantation with stem cells preserved in the presence of 4.5 and 2.2% DMSO [letter] Lakota J, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):262–3
Types and sources of fuels for platelets in a medium containing minimal added fuels and a low carryover plasma. Niu X, et al. **Br J Haematol** 1997 Jun;97(4):908–16
Reference interval for whole blood ionized magnesium in a healthy population and the stability of ionized magnesium under varied laboratory conditions. Greenway DC, et al. **Clin Biochem** 1996 Dec;29(6):515–20
Use of thrombin inhibitors ex vivo allows critical care clinical chemistry and hematology testing on common specimens. Lyon AW, et al. **Clin Biochem** 1997 Mar;30(2):121–7
Effect of sucrose/ -80 degrees C storage of plasma on between-site values of low-density lipoprotein susceptibility to copper-induced oxidation. GERBAP Section Lipoprotéines. Groupe d'Evaluation et de Recherche des Biologistes de l'Assistance Publique. Lefèvre G, et al. **Clin Chim Acta** 1997 Feb 17;258(2):249–55
In vitro study of the protective effect of trehalose and dextran during freezing of human red blood cells in liquid nitrogen. Pellerin-Mendes C, et al. **Cryobiology** 1997 Sep; 35(2):173–86
Rationale and strategy for utilization of available blood in transfusion practice--an overview. Khurana SK, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):343–54 (30 ref.)
Granulocytes harvested following G-CSF-enhanced leukocyte recovery retain their functional capacity during in vitro culture for 72 hours. Murea S, et al. **J Hematother** 1996 Aug;5(4):351–7
Impact of various handling and storage conditions on quantitative detection of hepatitis C virus RNA. Halfon P, et al. **J Hepatol** 1996 Sep;25(3):307–11
The preservative-exchange method using a sextuple-bag system for a 10-week storage period of red blood cells. Ohkuma S, et al. **Transfus Med** 1991 Dec;1(4):257–62
Addition of L-carnitine to additive solution-suspended red cells stored at 4 degrees C reduces in vitro hemolysis and improves in vivo viability. Arduini A, et al. **Transfusion** 1997 Feb;37(2):166–74
Platelets stored in a glucose-free additive solution or in autologous plasma--an ultrastructural and morphometric evaluation. Klinger MH, et al. **Vox Sang** 1996;71(1):13–20
Prolonged holding of whole blood at 22 degrees C does not increase activation in platelet concentrates. Sanz C, et al. **Vox Sang** 1997;72(4):225–8
Stability of blood coagulation factors and inhibitors in blood drawn into half-strength citrate anticoagulant. Suontaka AM, et al. **Vox Sang** 1996;71(2):97–102
[Preservative effects of nitrous oxide on stored red cells] Kawamura K. **Masui** 1997 Feb;46(2):222–8 (Eng. Abstr.) **(Jpn)**
[Fibrinolysis tests--with special reference to FDP test] Gotoh S, et al. **Rinsho Byori** 1996 Nov;Suppl 103:143–9 **(Jpn)**
[Bacteriological tests] Okada J. **Rinsho Byori** 1996 Nov;Suppl 103:227–34 **(Jpn)**
[Blood chemical analysis. B. Stability of ketone bodies in the arterial blood] Tamura M, et al. **Rinsho Byori** 1996 Nov;Suppl 103:162–8 **(Jpn)**
[Blood coagulation tests] Watanabe K. **Rinsho Byori** 1996 Nov;Suppl 103:139–42 **(Jpn)**
[Hormone tests. Factors responsible for fluctuations of catecholamine levels] Yamanaka S, et al. **Rinsho Byori** 1996 Nov;Suppl 103:207–14 **(Jpn)**
[Blood chemical analysis. D. Stability of serum lipids and lipoproteins in a preserved sample] Yamashita S, et al. **Rinsho Byori** 1996 Nov;Suppl 103:175–80 **(Jpn)**
[Immune serum tests. Sampling for complement tests--determination of serum complement hemolytic activity (CH50) and problems associated with handling of samples] Yoshida H, et al. **Rinsho Byori** 1996 Nov;Suppl 103:221–6 **(Jpn)**

STANDARDS

Laboratory practice and archival storage of biological specimens. Bartley SL, et al. **Toxicol Ind Health** 1996 May-Aug;12(3-4):477–80
Assessment of qualitative functional parameters of stored red blood cells from donors with sickle cell trait (AS) or with heterozygote (AC) status. Ould Amar AK, et al. **Transfus Clin Biol** 1996;3(4):225–33
AS-1 red cells for neonatal transfusions: a randomized trial assessing donor exposure and safety. Strauss RG, et al. **Transfusion** 1996 Oct;36(10):873–8

VETERINARY

Stability of gamma-glutamyltransferase activity in calf sera after refrigerated or frozen storage. Muller F, et al. **Am J Vet Res** 1997 Apr;58(4):354–5

BLOOD PRESSURE

see related
HYPERTENSION
HYPOTENSION

Shock index as a marker for significant injury in trauma patients. King RW, et al. **Acad Emerg Med** 1996 Nov; 3(11):1041–5
Tourniquet release: systemic and metabolic effects. Townsend HS, et al. **Acta Anaesthesiol Scand** 1996 Nov; 40(10):1234–7
The value of carotid stump pressure and EEG monitoring in predicting carotid cross-clamping intolerance. Lacroix H, et al. **Acta Chir Belg** 1996 Nov-Dec;96(6):269–72
Aortic vessel wall characteristics and blood pressure in children with intrauterine growth retardation and abnormal foetal aortic blood flow. Ley D, et al. **Acta Paediatr** 1997 Mar;86(3):299–305
Beat-to-beat blood pressure and heart rate responses to active standing in Japanese children. Yamaguchi H, et al. **Acta Paediatr** 1996 May;85(5):577–83
Losartan does not influence the blood platelet aggregation in normotensive rats. Chabielska E, et al. **Acta Physiol Hung** 1996;84(3):271–2
Effect of endothelin-1 on some hemostatic parameters in normotensive rats. Pietraszek M, et al. **Acta Physiol Hung** 1996;84(3):329–30
Increased finger arterial blood pressure after exercise detraining in women with parental hypertension: autonomic tasks. Buckworth J, et al. **Acta Physiol Scand** 1997 May; 160(1):29–41
The relationship between kynurenine, catecholamines, and arterial hypertension in mesangioproliferative glomerulonephritis. Martinsons A, et al. **Adv Exp Med Biol** 1996;398:417–9
Exaggerated blood pressure response to exercise in children with increased low-density lipoprotein cholesterol. Kavey RE, et al. **Am Heart J** 1997 Feb;133(2):162–8
Estimation of coronary flow reserve with the instantaneous coronary flow velocity versus pressure relation: a new index of coronary flow reserve independent of perfusion pressure. Kondo M, et al. **Am Heart J** 1996 Dec; 132(6):1127–34
Doppler derivation of complete pulmonary artery pressure curves in patent ductus arteriosus. Becker TE, et al. **Am J Cardiol** 1996 Nov 1;78(9):1066–9
Comparison of ambulatory blood pressure and amounts of left ventricular hypertrophy in men versus women with similar levels of hypertensive clinic blood pressures. Diamond JA, et al. **Am J Cardiol** 1997 Feb 15;79(4):505–8
Blood pressure responses to mental stress in emotionally defensive patients with stable coronary artery disease. Grossman P, et al. **Am J Cardiol** 1997 Aug 1;80(3):343–6
Relation of electrocardiographic left ventricular hypertrophy with and without T-wave changes to systemic blood pressure, body mass, and serum lipids and blood glucose levels in Japanese men. Ichihara Y, et al. **Am J Cardiol** 1997 Sep 15;80(6):730–5
Delayed recovery of postexercise blood pressure in patients with chronic heart failure. Kitaoka H, et al. **Am J Cardiol** 1997 Jun 15;79(12):1701–4
Effects of aerobic training on exaggerated blood pressure response to exercise in African-Americans with severe systemic hypertension treated with indapamide +/- verapamil +/- enalapril. Kokkinos PF, et al. **Am J Cardiol** 1997 May 15;79(10):1424–6
Systolic blood pressure at rest, not the degree of beta blockade, predicts the result of follow-up tilt-table testing for vasovagal syncope. Lewis WR, et al. **Am J Cardiol** 1997 Aug 1;80(3):351–3
Shortening of Doppler-derived deceleration time of early diastolic transmitral flow in the presence of pulmonary hypertension through ventricular interaction. Nagaya N, et al. **Am J Cardiol** 1997 Jun 1;79(11):1502–6
Preoperative left ventricular peak systolic pressure/end-systolic volume ratio and functional status following valve surgery in patients with mitral regurgitation and enlarged end-systolic volumes. Pitts WR, et al. **Am J Cardiol** 1997 Jun 1;79(11):1493–7
Comparison of age, gender, number of aortic valve cusps, concomitant coronary artery bypass grafting, and magnitude of left ventricular-systemic arterial peak systolic gradient in adults having aortic valve replacement for isolated aortic valve stenosis. Stephan PJ, et al. **Am J Cardiol** 1997 Jan 15;79(2):166–72
Relation of body mass and alcohol, nutrient, fiber, and caffeine intakes to blood pressure in the special intervention and usual care groups in the Multiple Risk Factor Intervention Trial. Stamler J, et al. **Am J Clin Nutr** 1997 Jan;65(1 Suppl):338S–365S
Effect of a music intervention on noise annoyance, heart rate, and blood pressure in cardiac surgery patients. Byers JF, et al. **Am J Crit Care** 1997 May;6(3):183–91
Comparison of methods of measuring pulmonary artery pressure. Lundstedt JL. **Am J Crit Care** 1997 Jul; 6(4):324–32
A reassessment of Doppler pressure indices in the detection

of arterial lesions in proximity penetrating injuries of extremities: a prospective study. Nassoura ZE, et al. **Am J Emerg Med** 1996 Mar;14(2):151–6

Abnormal characteristics in young offspring of parents with non–insulin–dependent diabetes mellitus. The Bogalusa Heart Study. Berenson GS, et al. **Am J Epidemiol** 1996 Nov 15;144(10):962–7

Some questions about "Epidemiologic association between dietary calcium intake and blood pressure: a meta–analysis of published data" [letter; comment] Heaney RP. **Am J Epidemiol** 1997 May 1;145(9):858–9. Comment on: Am J Epidemiol 1995 Nov 1;142(9):935–45.

Ambulatory intraarterial blood pressure in essential hypertension. Effects of age, sex, race, and body mass—the Northwick Park Hospital Database Study. Acharya DU, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):943–52

Urinary N–acetyl–beta–D–glucosaminidase changes in relation to age, sex, race, and diastolic and systolic blood pressure in a young adult biracial population. The Bogalusa Heart Study. Agirbasli M, et al. **Am J Hypertens** 1996 Feb; 9(2):157–61

Antihypertensive effect of thymectomy in Lyon hypertensive rats. Vascular reactivity, renal histology, and sodium excretion. Bataillard A, et al. **Am J Hypertens** 1996 Feb; 9(2):171–7

Relation of stress testing and ambulatory blood pressure to hypertensive cardiac damage. Cardillo C, et al. **Am J Hypertens** 1996 Feb;9(2):162–70

24–h ambulatory blood pressure monitoring in healthy young adult Anglo, Hispanic, and African–American subjects. Chase HP, et al. **Am J Hypertens** 1997 Jan;10(1):18–23

Nondipping of nocturnal blood pressure is related to urinary albumin excretion rate in patients with type 2 diabetes mellitus. Equiluz–Bruck S, et al. **Am J Hypertens** 1996 Nov; 9(11):1139–43

Respective role of humoral factors and blood pressure in aortic remodeling of DOCA hypertensive rats [see comments] Karam H, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):991–8. Comment in: Am J Hypertens 1997 Jul;10(7 Pt 1):825–7.

Ambulatory blood pressure monitoring in patients with single chamber ventricular pacemakers (VVI pacing mode) [letter] Lip GY, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1240–1

Blood pressure levels and variability, smoking, and left ventricular structure in normotension and in borderline and mild hypertension. Majahalme S, et al. **Am J Hypertens** 1996 Nov;9(11):1110–8

Sympathetic nerve hyperactivity precedes hyperinsulinemia and blood pressure elevation in a young, nonobese Japanese population. Masuo K, et al. **Am J Hypertens** 1997 Jan; 10(1):77–83

Cardiac structure and exercise blood pressure in urban and rural Canadian men of Icelandic descent. Naimark BJ, et al. **Am J Hypertens** 1996 Nov;9(11):1104–9

Is diastolic hypertension an independent risk factor for stroke in the presence of normal systolic blood pressure in the middle–aged and elderly? Nielsen WB, et al. **Am J Hypertens** 1997 Jun;10(6):634–9

Why study blood pressure reactivity to stress? [editorial; comment] [see comments] Pickering T. **Am J Hypertens** 1996 Sep;9(9):941–2. Comment on: Am J Hypertens 1996 Sep;9(9):915–23. Comment in: Am J Hypertens 1997 May;10(5 Pt 1):582–3.

Home self–monitoring of blood pressure: is fully automated oscillometric technique as good as conventional stethoscopic technique? Stergiou GS, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):428–33

Effects of cholesterol reduction on BP response to mental stress in patients with high cholesterol. Sung BH, et al. **Am J Hypertens** 1997 Jun;10(6):592–9

Proposal of reference values for home blood pressure measurement: prognostic criteria based on a prospective observation of the general population in Ohasama, Japan. Tsuji I, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):409–18

Plasma angiotensinogen concentrations in obese patients. Umemura S, et al. **Am J Hypertens** 1997 Jun;10(6):629–33

Ambulatory blood pressure monitoring (ABPM) in the normal menstrual cycle and in women using oral contraceptives. Comparison with conventional blood pressure measurement. Williamson PM, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):953–8

Ambulatory blood pressure monitoring editing criteria: is standardization needed? Hypertension and Ambulatory Recording Venetia Study (HARVEST) Group, Italy. Winnicki M, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):419–27

Insulin resistance in patients with essential hypertension can occur in the absence of microalbuminuria. Yip JW, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):959–63

Ambulatory blood pressure monitoring in dialysis patients and estimation of mean interdialytic blood pressure. Coomer RW, et al. **Am J Kidney Dis** 1997 May; 29(5):678–84

Endogenous erythropoietin correlates with blood pressure in essential hypertension. Schmieder RE, et al. **Am J Kidney Dis** 1997 Mar;29(3):376–82

Microalbuminuria in patients with non–insulin–dependent diabetes mellitus relates to nocturnal systolic blood pressure. Mitchell TH, et al. **Am J Med** 1997 Jun; 102(6):531–5

Natural history of blood pressure in sickle cell disease: risks for stroke and death associated with relative hypertension in sickle cell anemia. Pegelow CH, et al. **Am J Med** 1997 Feb;102(2):171–7

The effects of potassium depletion and supplementation on blood pressure: a clinical review. Barri YM, et al. **Am J Med Sci** 1997 Jul;314(1):37–40 (48 ref.)

Long–term nitric oxide blockade in the pregnant rat: effects on blood pressure and plasma levels of endothelin–1 [see comments] Edwards DL, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):484–8. Comment in: Am J Obstet Gynecol 1997 May;176(5):1116.

Prenatal maternal blood pressure response to stress predicts birth weight and gestational age: a preliminary study [see comments] McCubbin JA, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):706–12. Comment in: Am J Obstet Gynecol 1997 Mar;176(3):733.

Social context and psychosocial influences on blood pressure among American Samoans. Bindon JR, et al. **Am J Phys Anthropol** 1997 May;103(1):7–18

Nonlinear analysis of BP signal. Can it detect malfunctions in BP control? Almog Y, et al. **Am J Physiol** 1996 Aug; 271(2 Pt 2):H396–403

Preoptic recess alpha–adrenoceptors control cardiovascular responses to hyperosmolality. Bealer SL. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1283–9

Coarse graining spectral analysis of HR and BP variability in patients with autonomic failure. Blaber AP, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1555–64

Sympathetic activation cannot fully account for increased plasma renin levels during water deprivation. Blair ML, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1197–203

Area postrema–induced inhibition of the exercise pressor reflex. Bonigut S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1650–5

Multifiber renal SNA recordings predict mean arterial blood pressure in unanesthetized rat. Burgess DE, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R851–7

Matching dicrotic notch and mean pulmonary artery pressures: implications for effective arterial elastance. Chemla D, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1287–95

Nonuniform sympathetic nerve responses after sustained elevation in arterial pressure. Claassen DE, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1264–9

Role of the renal medulla in volume and arterial pressure regulation. Cowley AW Jr. **Am J Physiol** 1997 Jul;273(1 Pt 2):R1–15 (109 ref.)

Spontaneous blood pressure fluctuations and renal blood flow dynamics. Cupples WA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F82–9

Blood pressure and HR in the fetal lamb: relationship to hypoglycemia, hypoxemia, and growth restriction. Daniel SS, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1415–21

Left ventricular performance assessed by echocardiographic automated border detection and arterial pressure. Denault AY, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H138–47

Relationship between PVA and myocardial oxygen consumption can be derived from thermodynamics. Denslow S. **Am J Physiol** 1996 Feb;270(2 Pt 2):H730–40

The roles of cGMP and cAMP in active thermoregulatory vasodilation. Farrell DM, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 2):R975–81

Vasopressin modulation of medullary blood flow and pressure–natriuresis–diuresis in the decerebrated rat. Franchini KG, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1472–9

Circadian blood pressure in patients in a persistent vegetative state. Fukudome Y, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1109–14

Central thromboxane receptors: mRNA expression and mediation of pressor responses. Gao H, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1493–500

Effects of contraction, perfusion pressure, and length on intramyocardial pressure in rat papillary muscle. Heslinga JW, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2320–6

Systemic hemodynamic determinants of blood pressure in women: age, physical activity, and hormone replacement. Hunt BE, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H777–85

Derivation of the ascending aortic–carotid pressure transfer function with an arterial model. Karamanoglu M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2399–404

Power spectral analysis for autonomic influences in heart rate and blood pressure variability in fetal lambs. Kimura Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1333–9

Four weeks of cycle training increases basal production of nitric oxide from the forearm. Kingwell BA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1070–7

Diminished vasomotor component of systemic arterial pressure signals and baroreflex in brain death. Kuo TB, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1291–8

End–systolic pressure–volume relationship and intracellular control of contraction. Landesberg A. **Am J Physiol** 1996 Jan;270(1 Pt 2):H338–49

Spectral analysis of arterial blood pressure and raphe magnus neuronal activity in anesthetized rats. Leung CG, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R483–9

Distribution of pressure gradients along hepatic vasculature. Maass–Moreno R, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2826–32

Autoregulatory capacity in the superior mesenteric artery is attenuated by nitric oxide. Macedo MP, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G400–4

Relationship between sympathetic activity and arterial pressure in conscious spinal rats. Maiorov DN, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H625–31

Relationship between diabetic autonomic dysfunction and heart rate variability assessed by recurrence plot. Mestivier D, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1094–9

Flow versus pressure in the control of renin release in conscious dogs. Nafz B, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F200–5

Method for determining distribution of reflection sites in the arterial system. Pythoud F, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):H1807–13

Mechanisms compensating Na and water retention induced by long–term reduction of renal perfusion pressure. Seeliger E, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R646–54

Latency of muscle chemoreflex to vascular occlusion of active muscle during dynamic exercise. Sheriff DD. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1981–5

Cardiac autonomic control is inversely related to blood pressure variability responses to psychological challenge. Sloan RP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2227–32

Blood pressure variability responses to tilt are buffered by cardiac autonomic control. Sloan RP, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1427–31

Autonomic control of blood pressure and heart rate in obese hypertensive dogs. Truett AA, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R541–9

Cardiac hypertrophy and telemetered blood pressure 6 wk after baroreceptor denervation in normotensive rats. Van Vliet BN, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1759–69

Very low frequency oscillations in arterial blood pressure after autonomic blockade in conscious dogs. Wagner CD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R2034–9

Job strain and blood pressure in African Americans: the Pitt County Study. Curtis AB, et al. **Am J Public Health** 1997 Aug;87(8):1297–302

Low blood pressure and five–year mortality in a Stockholm cohort of the very old: possible confounding by cognitive impairment and other factors. Guo Z, et al. **Am J Public Health** 1997 Apr;87(4):623–8

Racial discrimination and blood pressure: the CARDIA Study of young black and white adults. Krieger N, et al. **Am J Public Health** 1996 Oct;86(10):1370–8

Pulmonary artery pressure response to hypoxia in sleep apnea. Laks L, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):193–8

Reflex stimulation of renal sympathetic nerve activity and blood pressure in response to apnea. O'Donnell CP, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1763–70

Effects of airway obstruction on transmural pulmonary artery pressure in exercising horses. Jackson JA, et al. **Am J Vet Res** 1997 Aug;58(8):897–903

Radial artery diameter decreases with increased femoral to radial arterial pressure gradient during cardiopulmonary bypass. Baba T, et al. **Anesth Analg** 1997 Aug;85(2):252–8

Arterial pressure–flow relationship in patients undergoing cardiopulmonary bypass. Urzua J, et al. **Anesth Analg** 1997 May;84(5):958–63

Color Doppler echocardiographic evaluation of tricuspid regurgitation and systolic pulmonary artery pressure in the full–term and preterm newborn. Schmitz AJ, et al. **Angiology** 1997 Aug;48(8):725–34

Environmental and occupational determinants of blood pressure in rural communities in China. Xu X, et al. **Ann Epidemiol** 1997 Feb;7(2):95–106

Blood pressure variation among Ethiopians on the Simien Plateau. Beall CM, et al. **Ann Hum Biol** 1997 Jul–Aug; 24(4):333–42

Eleven–year tracking of established cardiovascular risk factors in Italian school–aged children. Angelico F, et al. **Ann Ig** 1997 May–Jun;9(3):193–200

Relation of increased arterial blood pressure to mortality and stroke in the context of contemporary thrombolytic therapy for acute myocardial infarction. A randomized trial. GUSTO–I Investigators. Aylward PE, et al. **Ann Intern Med** 1996 Dec 1;125(11):891–900

Corresponding pulse pressure and arterial compliance variations during ambulatory monitoring. Brinton TJ, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:310–2

Blood pressure rhythms in sleep disorders and dysautonomia. Cortelli P, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:204–21 (122 ref.)

The dispersion quotients: a new approach for evaluating the blood pressure profile in essential versus Cushing's syndrome hypertensive patients. Gimenez J, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:321–3

Circadian blood pressure variation related to morbidity and mortality from cerebrovascular and cardiovascular diseases. Imai Y, et al. **Ann N Y Acad Sci** 1996 Aug 15; 783:172–85 (50 ref.)

Circadian blood pressure pattern in clinically healthy young Nepalese. Kawasaki T, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:326–7

Ambulatory blood pressure monitoring in normotensive smokers and nonsmokers. Kawasaki T, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:328–9

Reproducibility of ambulatory blood pressure measurement in renal hypertension. Dippers and non–dippers. Liebisch B, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:333–4

Reproducibility of nocturnal blood pressure reduction rate and the prevalence of "non-dippers" using 48-hour ambulatory blood pressure monitoring in patients with essential hypertension. Mochizuki Y, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:330-2

Low and high frequency components of blood pressure variability. Pagani M, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:10-23 (36 ref.)

The rhythms of blood pressure in humans. Exogenous and endogenous components and implications for diagnosis and treatment. Portaluppi F, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:1-9 (92 ref.)

Relationships of cardiac function and structure to blood pressure rhythms. Rizzoni D, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:159-71 (48 ref.)

Ambulatory blood pressure monitoring. Application to clinical medicine and antihypertension medication trials. Smolensky MH, et al. **Ann N Y Acad Sci** 1996 Aug 15; 783:278-94 (171 ref.)

Circadian blood pressure patterns in pregnant women with intrauterine growth retardation. Tranquilli AL, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:337-9

Long-term and short-term blood pressure variability in transplanted patients. van de Borne P, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:222-6

Blood pressure and atmospheric pressure. Weinbacher M, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:335-6

Quantitative assessment of cardiovascular autonomic function in Guillain-Barre syndrome. Flachenecker P, et al. **Ann Neurol** 1997 Aug;42(2):171-9

Clinical assessment of functional stenosis severity: use of coronary pressure measurements for the decision to bypass a lesion. Pijls NH, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S6-11

Blood pressure and its correlates in the population of Multan, Pakistan. Khan TH, et al. **Anthropol Anz** 1996 Dec; 54(4):361-8

Resting cardiovascular measures in patients with panic disorder and social phobia and health control subjects: relationship to habitual exercise frequency. Asmundson GJ, et al. **Anxiety** 1994;1(1):26-30

Preventing intravasation in women undergoing hysteroscopic procedures. Bennett KL, et al. **AORN J** 1996 Nov; 64(5):792-9

Dietary sodium and potassium, socioeconomic status and blood pressure in a Chinese population. Tian HG, et al. **Appetite** 1996 Jun;26(3):235-46

Drinking habit as a base for blood pressure elevation--difference in epidemiological significance by beverage type. Takashima Y, et al. **Appl Human Sci** 1997 Mar;16(2):47-53

Elevated midtrimester mean arterial blood pressure in women with severe preeclampsia. Atterbury JL, et al. **Appl Nurs Res** 1996 Nov;9(4):161-6

Doppler assessment of pulmonary artery pressure in neonates at risk of chronic lung disease. Su BH, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F23-7

Time-dependent sensitization of heart rate and blood pressure over multiple laboratory sessions in elderly individuals with chemical odor intolerance. Bell IR, et al. **Arch Environ Health** 1997 Jan-Feb;52(1):6-17

Effects of weight loss and sodium reduction intervention on blood pressure and hypertension incidence in overweight people with high-normal blood pressure. The Trials of Hypertension Prevention, phase II. The Trials of Hypertension Prevention Collaborative Research Group [see comments] **Arch Intern Med** 1997 Mar 24; 157(6):657-67. Comment in: Arch Intern Med 1997 Mar 24;157(6):596-7.

Association between blood pressure and dietary factors in the dietary and nutritional survey of British adults. Beard TC, et al. **Arch Intern Med** 1997 Jan 27;157(2):234-8

Blood pressure difference between arms [letter; comment] Bursztyn M. **Arch Intern Med** 1997 Apr 14;157(7):818. Comment on: Arch Intern Med 1996 Sep 23;156(17):2005-8.

Blood pressure. Assessment of interarm differences [see comments] Singer AJ, et al. **Arch Intern Med** 1996 Sep 23;156(17):2005-8. Comment in: Arch Intern Med 1997 Apr 14;157(7):818.

Simplified measurement of intra-access pressure. Besarab A, et al. **ASAIO J** 1996 Sep-Oct;42(5):M682-7

Blood pressure and heart rate response during exercise in men and women in the USA and Russia lipid research clinics prevalence study. Shalnova S, et al. **Atherosclerosis** 1996 Apr 26;122(1):47-57

Blood pressure in the Australian- and Italian-born: a Melbourne suburb revisited after 20 years. Ireland PD, et al. **Aust N Z J Public Health** 1996 Apr;20(2):143-8

Cardiovascular deconditioning through head-down tilt bed rest increases blood pressure variability and plasma renin activity. Schmedtje JF Jr, et al. **Aviat Space Environ Med** 1996 Jun;67(6):539-46

How many sphygmomanometric cuff inflations are necessary to obtain a hemodynamic baseline? Goodman M, et al. **Biofeedback Self Regul** 1996 Sep;21(3):207-16

Microvascular pressures in isolated perfused immature lamb lungs: effects of flow rate, left atrial pressure and surfactant therapy. Matsuda M, et al. **Biol Neonate** 1996;70(6):349-58

Role of the autonomic nervous system in the acute blood pressure elevation during repetitive hypoxic and hypercapnic breathing in rats. Bakehe M, et al. **Blood Press** 1996 Nov;5(6):371-5

Whole blood viscosity, blood pressure and cardiovascular risk factors in healthy blood donors. Fossum E, et al. **Blood Press** 1997 May;6(3):161-5

Psychosocial factors and blood pressure. Why are nuns better off? [editorial] Hansson L, et al. **Blood Press** 1997 Mar; 6(2):68

What is happening to blood pressure? [editorial; comment] Hedner T, et al. **Blood Press** 1996 May;5(3):132-3. Comment on: Blood Press 1996 May;5(3):134-8.

Blood pressure--then and now [editorial] Hedner T, et al. **Blood Press** 1996 Nov;5(6):323-4

Differences in orthostatic blood pressure changes measured with an oscillometric blood pressure monitor and a mercury sphygmomanometer. Iqbal P, et al. **Blood Press** 1996 Jul; 5(4):222-6

Blood pressure and urinary C-peptide excretion in subjects with varying degrees of glucose tolerance. Miura K, et al. **Blood Press** 1996 May;5(3):148-53

Concomitant risk factors in hypertensives: a survey of risk factors for cardiovascular disease amongst hypertensives in English general practices. Poulter NR, et al. **Blood Press** 1996 Jul;5(4):209-15

Is hypertension changing? Blood pressure development in cohorts of 50-year-old men between 1963 and 1993 [see comments] Ribacke M, et al. **Blood Press** 1996 May; 5(3):134-8. Comment in: Blood Press 1996 May;5(3):132-3.

Blood pressure trend and cardiovascular events in nuns in a secluded order: a 30-year follow-up study. Timio M, et al. **Blood Press** 1997 Mar;6(2):81-7

How to study the role of hypertension in atherosclerosis. Lessons from MIDAS. Multicentre Isradipine Diuretic Atherosclerosis Study. Hansson L. **Blood Press Suppl** 1996; 4:16-9 (19 ref.)

Influence of the hydration state on blood pressure values in a group of patients on regular maintenance hemodialysis. Dionisio P, et al. **Blood Purif** 1997;15(1):25-33

Audit of diagnosis and management of hypertension in primary care. Definition of uncontrolled blood pressure used in study is unclear [letter; comment] Barton S, et al. **BMJ** 1997 Aug 2;315(7103):315. Comment on: BMJ 1997 Mar 29;314(7085):942-6.

Comparing hypertension guidelines. Audit in Mid-Glamorgan also shows major problems with management of hypertension [letter; comment] Burr AJ. **BMJ** 1996 Nov 9;313(7066):1203. Comment on: BMJ 1996 Jul 13;313(7049):93-6.

Use of ankle brachial pressure index to predict cardiovascular events and death: a cohort study [see comments] Leng GC, et al. **BMJ** 1996 Dec 7;313(7070):1440-4. Comment in: ACP J Club 1997 May-jun;126(3):79.

Ambulatory blood pressure monitoring: a guide for general practitioners. Prasad N, et al. **BMJ** 1996 Dec 14; 313(7071):1535-41 (46 ref.)

Comparing hypertension guidelines. Guidelines are based on evidence from trials, not normal practice [letter; comment] [see comments] Scanlon TJ, et al. **BMJ** 1996 Nov 9; 313(7066):1203. Comment on: BMJ 1996 Jul 13;313(7049):93-6. Comment in: BMJ 1997 Feb 15;314(7079):518. Comment in: BMJ 1997 Feb 15;314(7079):518-9.

Effect of black tea drinking on blood lipids, blood pressure and aspects of bowel habit [see comments] Bingham SA, et al. **Br J Nutr** 1997 Jul;78(1):41-55. Comment in: Br J Nutr 1997 Jul;78(1):1-3.

Accuracy of oscillometric blood pressure monitoring in pregnancy and pre-eclampsia. Gupta M, et al. **Br J Obstet Gynaecol** 1997 Mar;104(3):350-5

Blood pressure measurement in pregnancy [letter; comment] Quinn M. **Br J Obstet Gynaecol** 1997 Apr;104(4):509-10. Comment on: Br J Obstet Gynaecol 1996 Sep;103(9):862-3.

Trigeminal autonomic pathways involved in nociception-induced reflex cardiovascular responses. Allen GV, et al. **Brain Res** 1997 Apr 18;754(1-2):269-78

Pressor and depressor sites are intermingled in the cingulate cortex of the rat. Fisk GD, et al. **Brain Res** 1997 Apr 18; 754(1-2):204-12

Identification of hypothalamic vasopressin and oxytocin neurons activated during the exercise pressor reflex in cats. Li J, et al. **Brain Res** 1997 Mar 28;752(1-2):45-51

Disinhibition of the hypothalamic paraventricular nucleus increases mean circulatory filling pressure in conscious rats. Martin DS, et al. **Brain Res** 1997 May 9;756(1-2):106-13

Extreme arterial blood pressure differentials in a patient with Takayasu's arteritis. Meikle A, et al. **Can J Anaesth** 1997 Aug;44(8):868-71

Hill's sign in aortic regurgitation: enhanced pressure wave transmission or artefact? Kutryk M, et al. **Can J Cardiol** 1997 Mar;13(3):237-40

Intraarterial pressure gradients after randomized angioplasty or stenting of iliac artery lesions. Dutch Iliac Stent Trial Study Group. Tetteroo E, et al. **Cardiovasc Intervent Radiol** 1996 Nov-Dec;19(6):411-7

Effects of synchronized retroperfusion on the coronary arterial pressure-flow relationship. Mitsugi M, et al. **Cardiovasc Res** 1996 Aug;32(2):335-43

Evaluation of a pressure-recording guidewire in patients with coronary arterial disease. Abildgaard A, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):200-7

Use of pulsed-wave Doppler echocardiography to measure changes in MPAP. Is further validation required? [letter; comment] Morrell NW. **Chest** 1997 May;111(5):1469-70. Comment on: Chest 1996 Sep;110(3):584-5. Comment on: Chest 1996 Sep;110(3):698-703.

Pulse pressure-related changes in coronary flow in vivo are modulated by nitric oxide and adenosine. Recchia FA, et al. **Circ Res** 1996 Oct;79(4):849-56

Cytoskeletal mechanics in pressure-overload cardiac hypertrophy [see comments] Tagawa H, et al. **Circ Res** 1997 Feb;80(2):281-9. Comment in: Circ Res 1997 Feb;80(2):295-6.

Microtubules and pressure-overload hypertrophy [editorial; comment] Walsh RA. **Circ Res** 1997 Feb;80(2):295-6. Comment on: Circ Res 1997 Feb;80(2):281-90. Comment on: Circ Res 1997 Feb;80(2):290-4.

Linearity of pulsatile pressure-flow relations in the embryonic chick vascular system. Yoshigi M, et al. **Circ Res** 1996 Oct;79(4):864-70

Effects of menopause on trends of serum cholesterol, blood pressure, and body mass index. Akahoshi M, et al. **Circulation** 1996 Jul 1;94(1):61-6

Reconstruction of brachial artery pressure from noninvasive finger pressure measurements. Bos WJ, et al. **Circulation** 1996 Oct 15;94(8):1870-5

Estimation of central aortic pressure waveform by mathematical transformation of radial tonometry pressure. Validation of generalized transfer function. Chen CH, et al. **Circulation** 1997 Apr 1;95(7):1827-36

Simultaneous coronary pressure and flow velocity measurements in humans. Feasibility, reproducibility, and hemodynamic dependence of coronary flow velocity reserve, hyperemic flow versus pressure slope index, and fractional flow reserve. de Bruyne B, et al. **Circulation** 1996 Oct 15;94(8):1842-9

Insights from three-dimensional echocardiographic laser stereolithography. Effect of leaflet funnel geometry on the coefficient of orifice contraction, pressure loss, and the Gorlin formula in mitral stenosis. Gilon D, et al. **Circulation** 1996 Aug 1;94(3):452-9

Quantitative assessment of alterations in regional left ventricular contractility with color-coded tissue Doppler echocardiography. Comparison with sonomicrometry and pressure-volume relations. Gorcsan J 3rd, et al. **Circulation** 1997 May 20;95(10):2423-33

Abnormal epinephrine release in young adults with high personal and high parental blood pressures. Harrap SB, et al. **Circulation** 1997 Jul 15;96(2):556-61

Effect of perfusion pressure on cerebral blood flow during normothermic cardiopulmonary bypass. Newman MF, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II353-7

Importance of pressure recovery for the assessment of aortic stenosis by Doppler ultrasound. Role of aortic size, aortic valve area, and direction of the stenotic jet in vitro. Niederberger J, et al. **Circulation** 1996 Oct 15;94(8):1934-40

Marked discordance between dynamic and passive diastolic pressure-volume relations in idiopathic hypertrophic cardiomyopathy [published erratum appears in Circulation 1996 Nov 15;94(10):2668] Pak PH, et al. **Circulation** 1996 Jul 1;94(1):52-60

Single-beat estimation of end-systolic pressure-volume relation in humans. A new method with the potential for noninvasive application. Senzaki H, et al. **Circulation** 1996 Nov 15;94(10):2497-506

Relationship to blood pressure of combinations of dietary macronutrients. Findings of the Multiple Risk Factor Intervention Trial (MRFIT). Stamler J, et al. **Circulation** 1996 Nov 15;94(10):2417-23

Inverse relation of dietary protein markers with blood pressure. Findings for 10,020 men and women in the INTERSALT Study. INTERSALT Cooperative Research Group. INTERnational study of SALT and blood pressure. Stamler J, et al. **Circulation** 1996 Oct 1;94(7):1629-34

Non-invasive continuous arterial pressure, heart rate and stroke volume measurements during graded head-up tilt in normal man. Critchley LA, et al. **Clin Auton Res** 1997 Apr;7(2):97-101

Orthostatic hypotension in organic dementia: relationship between blood pressure, cortical blood flow and symptoms. Passant U, et al. **Clin Auton Res** 1996 Feb;6(1):29-36

High-rate cardiac pacing increases blood pressure and decreases right atrial pressure in patients with hemodynamic significant acute right ventricular myocardial infarction and bradyarrhythmia. Vrouchos GT, et al. **Clin Cardiol** 1997 Jan;20(1):41-6

Prevalence of hypertension and rate of blood pressure control as assessed by home blood pressure measurements in a rural Japanese community, Ohasama. Nagai K, et al. **Clin Exp Hypertens** 1996 Jul;18(5):713-28

Proceedings of the 18th Annual Scientific Meeting of the High Blood Pressure Research Council of Australia. Melbourne, December 1996. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):421-64

24-hour blood pressure monitoring in children and adolescents after recovery from hemolytic uremic syndrome. Bald M, et al. **Clin Nephrol** 1996 Jul;46(1):50-3

Ankle to arm index response to exercise and heat stress in healthy subjects. Desvaux B, et al. **Clin Physiol** 1996 Jan; 16(1):1-7

Cardiac output and blood pressure during active and passive standing. Tanaka H, et al. **Clin Physiol** 1996 Mar; 16(2):157-70 (31 ref.)

Fractal component of variability of heart rate and systolic blood pressure in congestive heart failure. Butler GC, et al. **Clin Sci (Colch)** 1997 Jun;92(6):543-50

BLOOD PRESSURE

Blood pressure parameters as determinants of small artery structure in human essential hypertension. Cooper A, et al. **Clin Sci (Colch)** 1997 Jun;92(6):551–7

A system for analysis of arterial blood pressure waveforms in humans. Karamanoglu M. **Comput Biomed Res** 1997 Jun; 30(3):244–55

The exponential distribution applied to nonequidistantly sampled cardiovascular time series. Van Steenis HG, et al. **Comput Biomed Res** 1996 Jun;29(3):174–93

Analysis of blood pressure variability derived from ambulatory blood pressure monitoring in 92 uraemic patients. Covic A, et al. **Contrib Nephrol** 1996;119:157–60

Role of endothelin in the regulation of vascular tone and blood pressure. Webb DJ, et al. **Contrib Nephrol** 1996; 119:1–7 (10 ref.)

Effect of blood pressure control and antihypertensive drug regimen on quality of life: the African American Study of Kidney Disease and Hypertension (AASK) Pilot Study. Kusek JW, et al. **Control Clin Trials** 1996 Aug;17(4 Suppl):40S–46S

Hypertensive, hypervolemic, hemodilutional therapy for aneurysmal subarachnoid hemorrhage. Is it efficacious? No. Oropello JM, et al. **Crit Care Clin** 1996 Jul;12(3):709–30 (79 ref.)

Hypertensive, hypervolemic, hemodilutional therapy for aneurysmal subarachnoid hemorrhage. Is it efficacious? Yes. Ullman JS, et al. **Crit Care Clin** 1996 Jul;12(3):697–707 (70 ref.)

Starling resistor effects on pulmonary artery occlusion pressure in endotoxin shock provide inaccuracies in left ventricular compliance assessments. Fang K, et al. **Crit Care Med** 1996 Oct;24(10):1618–25

Spectral analysis of systemic arterial pressure and heart rate signals as a prognostic tool for the prediction of patient outcome in the intensive care unit. Yien HW, et al. **Crit Care Med** 1997 Feb;25(2):258–66

Rationale and benefits of classification of hypertension severity. Elliott WJ, et al. **Curr Opin Cardiol** 1997 Jul; 12(4):368–74 (71 ref.)

Blood pressure J-curve: is it cause or effect? Alderman MH. **Curr Opin Nephrol Hypertens** 1996 May;5(3):209–13 (13 ref.)

Kidney damage in 'benign' essential hypertension [see comments] Whelton PK, et al. **Curr Opin Nephrol Hypertens** 1997 Mar;6(2):177–83 (36 ref.). Comment in: Curr Opin Nephrol Hypertens 1997 Mar;6(2):167–8.

Are body mass or insulin resistance independently associated with cardiovascular risk factors in non-diabetic elderly Nigerians? Ezenwaka CE, et al. **Diabet Med** 1996 Oct; 13(10):874–81

Autonomic dysfunction in non-insulin-dependent diabetes mellitus and fibrocalculous pancreatic diabetes in south India. Mohan V, et al. **Diabet Med** 1996 Dec;13(12):1038–43

Association between neonatal blood pressure and umbilical cord insulin concentration. Simmons D. **Diabet Med** 1997 Mar;14(3):196–9

An assessment of blood pressure measurement in a diabetic clinic using random-zero, semi-automated, and 24-hour monitoring. Sturrock ND, et al. **Diabet Med** 1997 May; 14(5):370–5

The beta 3-adrenergic receptor gene Trp64Arg mutation is overrepresented in obese women. Effects on weight, BMI, abdominal fat, blood pressure, and reproductive history in an elderly Australian population. Kurabayashi T, et al. **Diabetes** 1996 Oct;45(10):1358–63

The impact of socioeconomic status on cardiovascular risk factors in African-Americans at high risk for type II diabetes. Implications for syndrome X. Gaillard TR, et al. **Diabetes Care** 1997 May;20(5):745–52

Reduced decrease of peripheral vascular resistance during exercise in young type I diabetic patients. Matthys D, et al. **Diabetes Care** 1996 Nov;19(11):1286–8

White coat hypertension in NIDDM patients with and without incipient and overt diabetic nephropathy. Nielsen FS, et al. **Diabetes Care** 1997 May;20(5):859–63

Hyperglycemia affects cardiovascular autonomic nerve function in normal subjects. Yeap BB, et al. **Diabetes Care** 1996 Aug;19(8):880–2

Fibrinogen and von Willebrand factor in IDDM: relationships to lipid vascular risk factors, blood pressure, glycaemic control and urinary albumin excretion rate: the EURODIAB IDDM Complications Study. Greaves M, et al. **Diabetologia** 1997 Jun;40(6):698–705

24-h blood pressure and autonomic function is related to albumin excretion within the normoalbuminuric range in IDDM patients. Poulsen PL, et al. **Diabetologia** 1997 Jun; 40(6):718–25

Blood lead and blood pressure in young children. Factor-Litvak P, et al. **Epidemiology** 1996 Nov;7(6):633–7

A comparison of non-invasive continuous finger blood pressure measurement (Finapres) with intra-arterial pressure during prolonged head-up tilt. Petersen ME, et al. **Eur Heart J** 1995 Nov;16(11):1641–54

Diurnal rhythms of plasma renin activity, atrial natriuretic peptide and arterial pressure during head-down bed rest in humans. Gauquelin G, et al. **Eur J Appl Physiol** 1996; 73(6):536–43

Menopause-associated changes in plasma lipids, insulin-like growth factor I and blood pressure: a longitudinal study. Poehlman ET, et al. **Eur J Clin Invest** 1997 Apr;27(4):322–6

The inverse relation of average population blood pressure and stroke mortality rates in the seven countries study: a paradox. Menotti A, et al. **Eur J Epidemiol** 1997 Jun; 13(4):379–86

Correlation between disease activity and arterial blood pressure in Crohn's disease. Koga H, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):787–91

Cardiovascular responses induced by dental treatment. Brand HS, et al. **Eur J Oral Sci** 1996 Jun;104(3):245–52 (89 ref.)

The nature and importance of changes in toe-brachial pressure indices following percutaneous transluminal angioplasty for leg ischaemia. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):125–33

The relationship between the delayed improvement in ankle-brachial pressure index and changes in limb volume following balloon angioplasty for leg ischaemia. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):114–7

Cardiovascular consequences of fibreoptic bronchoscopy. Davies L, et al. **Eur Respir J** 1997 Mar;10(3):695–8

Circadian variations in blood pressure and heart rate in diabetes prone and resistant rat strains compared with spontaneously hypertensive rats. Berg S, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:7–9

Salt sensitivity and insulin resistance in normotensives. Gruska S, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:22–6

Chromosome 8 congenic strains: tools for genetic analysis of limb malformation, plasma triglycerides, and blood pressure in the rat. Křen V, et al. **Folia Biol (Praha)** 1995; 41(6):284–93

Effects of graded hemorrhage on short-term variability of blood pressure in conscious rats. Baujard C, et al. **Fundam Clin Pharmacol** 1996;10(6):511–7

A comparison of blood pressure changes in phacoemulsification cataract surgery with topical and retrobulbar block local anesthesia. Suzuki R, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 May;235(5):277–82

Impaired cardiovascular autonomic response to passive tilting in cirrhosis with ascites. Laffi G, et al. **Hepatology** 1996 Nov;24(5):1063–7

Relationships between reduction in body weight and reduction in blood pressure and improvement of glucose and lipid metabolism induced by short-term calorie restriction in overweight hypertensive women. Adachi T, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S57–60

Role of the sympathetic nervous system in the nocturnal fall in blood pressure. Arita M, et al. **Hypertens Res** 1996 Sep; 19(3):195–200

Ambulatory blood pressure monitoring in evaluating the prevalence of hypertension in adults in Ohasama, a rural Japanese community. Imai Y, et al. **Hypertens Res** 1996 Sep;19(3):207–12

Insulin resistance, hypertension and nephropathy. Kikkawa R, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S27–9

The effect of age on glucose tolerance and plasma insulin level in hypertensive and normotensive subjects. Nakamura Y, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S23–6

Insulin and cardiovascular diseases in Japanese work-site population with borderline to mild hypertension. Takishita S, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S13–8

Circadian blood pressure variability in healthy and complicated pregnancies. Ayala DE, et al. **Hypertension** 1997 Sep;30(3 Pt 2):603–10

Blood pressure variability during gestation in healthy and complicated pregnancies. Ayala DE, et al. **Hypertension** 1997 Sep;30(3 Pt 2):611–8

Diurnal variations in cardiovascular function and glucose regulation in normotensive humans. Biston P, et al. **Hypertension** 1996 Nov;28(5):863–71

Prediction of cardiac structure and function by repeated clinic and ambulatory blood pressure. Fagard RH, et al. **Hypertension** 1997 Jan;29(1 Pt 1):22–9

Long-term effects of neonatal sodium restriction on blood pressure [published erratum appears in Hypertension 1997 May;29(5):1211] Geleijnse JM, et al. **Hypertension** 1997 Apr;29(4):913–7

Stress-induced laboratory blood pressure in relation to ambulatory blood pressure and left ventricular mass among borderline hypertensive and normotensive individuals. Georgiades A, et al. **Hypertension** 1996 Oct;28(4):641–6

Nocturnal decline in blood pressure is attenuated by NaCl loading in salt-sensitive patients with essential hypertension: noninvasive 24-hour ambulatory blood pressure monitoring. Higashi Y, et al. **Hypertension** 1997 Aug;30(2 Pt 1):163–7

Placebo-controlled biofeedback blood pressure effect in hypertensive humans. Hunyor SN, et al. **Hypertension** 1997 Jun;29(6):1225–31

Blunted blood pressure response to central sympathoinhibition in normotensive blacks: increased importance of nonsympathetic factors in blood pressure maintenance in blacks. Lang CC, et al. **Hypertension** 1997 Aug;30(2 Pt 1):157–62

Achievement and safety of a low blood pressure goal in chronic renal disease. The Modification of Diet in Renal Disease Study Group. Lazarus JM, et al. **Hypertension** 1997 Feb;29(2):641–50

Short-term variability of blood pressure during sleep in snorers with or without apnea. Leroy M, et al. **Hypertension** 1996 Dec;28(6):937–43

Blood pressure lowering for the secondary prevention of myocardial infarction and stroke [editorial] MacMahon S, et al. **Hypertension** 1997 Feb;29(2):537–8

Blood pressure level and variability in the prediction of blood pressure after 5-year follow-up. Majahalme S, et al. **Hypertension** 1996 Nov;28(5):725–31

Pressure natriuresis and renal medullary blood flow in dogs. Majid DS, et al. **Hypertension** 1997 Apr;29(4):1051–7

Association of body mass index with blood pressure in elderly Japanese American men. The Honolulu Heart Program. Masaki KH, et al. **Hypertension** 1997 Feb;29(2):673–7

Role of nitric oxide in the development of vascular alpha 1-adrenoreceptor desensitization and pressure diuresis in conscious rats. Minami N, et al. **Hypertension** 1997 Apr; 29(4):969–75

Confirmation or exclusion of stage I hypertension by ambulatory blood pressure monitoring. Moore CR, et al. **Hypertension** 1997 May;29(5):1109–13

Role of angiotensin-converting enzyme, adrenergic receptors, and blood pressure in cardiac gene expression of spontaneously hypertensive rats during development. Ohta K, et al. **Hypertension** 1996 Oct;28(4):627–34

Relative influence of menopausal status, age, and body mass index on blood pressure. Portaluppi F, et al. **Hypertension** 1997 Apr;29(4):976–9

Roles of systolic and pulse pressures [letter; comment] Safar M. **Hypertension** 1997 Jul;30(1 Pt 1):146–7. Comment on: Hypertension 1996 Nov;28(5):713–8. Comment on: Hypertension 1996 Nov;28(5):719–24.

Nutrient intake and blood pressure in the Dietary Intervention Study in Children. Simons-Morton DG, et al. **Hypertension** 1997 Apr;29(4):930–6

Blood pressures and cardiovascular homeostasis in mice having reduced or absent angiotensin-converting enzyme gene function. Tian B, et al. **Hypertension** 1997 Jul;30(1 Pt 1):128–33

Birth weight, growth, and blood pressure: an annual follow-up study of children aged 5 through 21 years. Uiterwaal CS, et al. **Hypertension** 1997 Aug;30(2 Pt 1):267–71

Prognostic significance of the white coat effect. Verdecchia P, et al. **Hypertension** 1997 Jun;29(6):1218–24

An experimental study on changes in finger blood pressure during chain-saw operation. Futatsuka M, et al. **Ind Health** 1996;34(2):93–100

Meta-analysis of prevalence of hypertension in India. Gupta R. **Indian Heart J** 1997 Jan-Feb;49(1):43–8

Age and sex variation of blood pressure in the population of Andhra Pradesh. Nirmala A, et al. **Indian J Public Health** 1996 Oct-Dec;40(4):106–11

Dietary calcium, potassium, magnesium and blood pressure in the Netherlands. Van Leer EM, et al. **Int J Epidemiol** 1995 Dec;24(6):1117–23

Attention exercise physiologists [letter] Badeer HS. **Int J Sports Med** 1996 Jul;17(5):393–4

Effect of strength training on blood pressure measured in various conditions in sedentary men. Van Hoof R, et al. **Int J Sports Med** 1996 Aug;17(6):415–22

Long-term effects in two generations of enriched soybean and olive oil diets on some cardiovascular and biochemical parameters in male rats. Fernández S, et al. **Int J Vitam Nutr Res** 1996;66(4):393–9

Blood pressure and arterial lactate level are early indicators of short-term survival in human septic shock [see comments] Bernardin G, et al. **Intensive Care Med** 1996 Jan;22(1):17–25. Comment in: Intensive Care Med 1996 Jan;22(1):3–5.

Changes in stroke distance in response to haemorrhage in a swine model. Clancy MJ, et al. **J Accid Emerg Med** 1996 Sep;13(5):316–20

Systolic blood pressure revisited. Smulyan H, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1407–13 (57 ref.)

Arterial compliance, systemic blood pressure, and diastolic dysfunction in older adults [editorial; comment] Kuller LH, et al. **J Am Geriatr Soc** 1997 Jul;45(7):889–90. Comment on: J Am Geriatr Soc 1997 Jul;45(7):803–8.

Help lower the mercury and control high blood pressure [editorial] Classé JG, et al. **J Am Optom Assoc** 1996 May; 67(5):245–7

AOA/NHBPEP partnership turns 20 [editorial] Lenfant C. **J Am Optom Assoc** 1997 Jul;68(7):407–9

The age of the patient should be taken into account when interpreting Doppler assessed pulmonary artery pressures. Dib JC, et al. **J Am Soc Echocardiogr** 1997 Jan-Feb; 10(1):72–3

Predialysis systolic blood pressure correlates strongly with mean 24-hour systolic blood pressure and left ventricular mass in stable hemodialysis patients. Conion PJ, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2658–63

Nocturnal blood pressure in treated hypertensive African Americans Compared to treated hypertensive European Americans. Hebert LA, et al. **J Am Soc Nephrol** 1996 Oct; 7(10):2130–4

High glucose level unmasks a genetic predisposition to enhanced extracellular matrix production in mesangial cells from the Milan normotensive strain. Pugliese G, et al. **J Am Soc Nephrol** 1997 Mar;8(3):406–14

Quinapril decreases renal endothelin-1 expression and synthesis in a normotensive model of immune-complex nephritis. Ruiz-Ortega M, et al. **J Am Soc Nephrol** 1997 May;8(5):756–68

Systemic arterial blood pressure and urine protein/creatinine ratio in dogs with hyperadrenocorticism. Ortega TM, et al. **J Am Vet Med Assoc** 1996 Nov 15;209(10):1724–9

Autonomic dysfunction with special reference to

cardiovascular responses in patients with raised intracranial tension. Singh NK, et al. **J Assoc Physicians India** 1995 Feb;43(2):106–7

Gender differences in the relation between interview–derived hostility scores and resting blood pressure. Davidson K, et al. **J Behav Med** 1996 Apr;19(2):185–201

Tissue kallikrein–binding protein reduces blood pressure in transgenic mice. Chen LM, et al. **J Biol Chem** 1996 Nov 1;271(44):27590–4

Cardiovascular reactivity during verbal communication: an emerging risk factor. Thomas SA, et al. **J Cardiovasc Nurs** 1995 Jan;9(2):1–11 (42 ref.)

Evidence from a chronobiometric approach that chronic smokers, although normotensive, show an increase in diurnal blood pressure. Kawasaki T, et al. **J Cardiovasc Risk** 1996 Jun;3(3):313–7

Control of blood pressure and heart rate in patients randomized to epidural or general anesthesia for lower extremity vascular surgery. Perioperative Ischemia Randomized Anesthesia Trial (PIRAT) Study Group. Christopherson R, et al. **J Clin Anesth** 1996 Nov; 8(7):578–84

Blood pressure in children and adolescents with Cushing's syndrome before and after surgical care. Magiakou MA, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1734–8

Prediction of young adult blood pressure from childhood blood pressure, height, and weight. Cook NR, et al. **J Clin Epidemiol** 1997 May;50(5):571–9

The diagnostic value of the measurement of the ankle–brachial systolic pressure index in primary health care. Stoffers HE, et al. **J Clin Epidemiol** 1996 Dec; 49(12):1401–5

Elevated blood pressure and enhanced myocardial contractility in mice with severe IGF–1 deficiency. Lembo G, et al. **J Clin Invest** 1996 Dec 1;98(11):2648–55

Increased blood pressure in rats after long–term inhibition of the neuronal isoform of nitric oxide synthase. Ollerstam A, et al. **J Clin Invest** 1997 May 1;99(9):2212–8

Ambulatory blood pressure in insulin–dependent diabetes: the relation to stages of diabetic kidney disease. Hansen KW. **J Diabetes Complications** 1996 Nov–Dec;10(6):331–51

An experimental model for the acute and chronic evaluation of intra–aneurysmal pressure [see comments] Faries PL, et al. **J Endovasc Surg** 1997 Aug;4(3):290–7. Comment in: J Endovasc Surg 1997 Aug;4(3):298.

Can confounding by sociodemographic and behavioural factors explain the association between size at birth and blood pressure at age 50 in Sweden? Koupilová I, et al. **J Epidemiol Community Health** 1997 Feb;51(1):14–8

Physical activity, physical fitness, blood pressure, and fibrinogen in the Northern Ireland health and activity survey. MacAuley D, et al. **J Epidemiol Community Health** 1996 Jun;50(3):258–63

Abnormal circadian blood pressure changes in patients with acute cerebrovascular disorders. Wang TL, et al. **J Formos Med Assoc** 1997 Sep;96(9):710–7

Age–associated changes in blood pressure in a longitudinal study of healthy men and women. Pearson JD, et al. **J Gerontol A Biol Sci Med Sci** 1997 May;52(3):M177–83

Body composition and blood pressure: which indices of fatness show the strongest correlation? Ahmed M–el B, et al. **J Hum Hypertens** 1996 Jun;10(6):365–8

Blood pressure response to exercise in young subjects with and without parental history of hypertension. Biagini M, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S81–3

Blood pressure and anthropometry in parents and children of a southern Italian village. Buonomo E, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S77–9

The siesta and ambulatory blood pressure: is waking up the same in the morning and afternoon? Bursztyn M, et al. **J Hum Hypertens** 1996 May;10(5):287–92

Blood pressure reactions to the cold pressor test and the prediction of future blood pressure status: data from the Caerphilly study. Carroll D, et al. **J Hum Hypertens** 1996 Dec;10(12):777–80

Follow up of young people with high casual blood pressure. Cosenzi A, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S71–5

Circadian blood pressure changes and cardiac geometry in essential arterial hypertension. Czarnecka D, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S95–8

Increased left ventricular mass in salt–sensitive hypertensive patients. de la Sierra A, et al. **J Hum Hypertens** 1996 Dec; 10(12):795–9

Cardiovascular response to physical stress in offspring of hypertensive parents: Dutch Hypertension and Offspring Study. de Visser DC, et al. **J Hum Hypertens** 1996 Dec; 10(12):781–8

Metabolic and orthostatic blood pressure responses to a low–sodium diet in elderly hypertensives. Fotherby MD, et al. **J Hum Hypertens** 1997 Jun;11(6):361–6

Antihypertensive therapy and orthostatic responses in elderly hospital in–patients. Fotherby MD, et al. **J Hum Hypertens** 1997 May;11(5):291–4

Electrolytes are associated with blood pressure at old age: the Rotterdam Study. Geleijnse JM, et al. **J Hum Hypertens** 1997 Jul;11(7):421–3

Hypertension epidemiology in India: meta–analysis of 50 year prevalence rates and blood pressure trends. Gupta R, et al. **J Hum Hypertens** 1996 Jul;10(7):465–72

Criteria of normal blood pressure and hypertension in Japanese preschool children. Hashimoto N, et al. **J Hum Hypertens** 1997 Jun;11(6):351–4

Race specific altitude effects on blood pressure. Hasler E, et al. **J Hum Hypertens** 1997 Jul;11(7):435–8

Metabolic, humoral and haemodynamic characteristics of normotensive offspring from hypertensive families. Horký K, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S85–7

Spouse concordance of obesity, blood pressures and serum risk factors for atherosclerosis. Inoue K, et al. **J Hum Hypertens** 1996 Jul;10(7):455–9

Changes in blood pressure and serum cholesterol following exercise training in Nigerian hypertensive subjects. Iyawe VI, et al. **J Hum Hypertens** 1996 Jul;10(7):483–7

Left ventricular mass and diurnal variation in blood pressure with time after cardiac transplant. Jenkins GH, et al. **J Hum Hypertens** 1996 Jun;10(6):413–4

Determinants of poor blood pressure control in urban hypertensives of central India. Joshi PP, et al. **J Hum Hypertens** 1996 May;10(5):299–303

Awareness and treatment of arterial hypertension in Poland. Krupa–Wojciechowska B, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S25–7

The influence of working time on the diurnal variation of blood pressure. Mandecki T, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S49–50

Pressure response to successive clinic readings predicts an elevated blood pressure at 2.6 years' follow–up: the Israeli CORDIS Study. Cardiovascular Occupational Risk Factor Determination in Israeli Industries. Melamed S, et al. **J Hum Hypertens** 1997 Feb;11(2):101–6

Determinants of membrane microviscosity in human erythrocytes: association with gender, blood pressure and serum lipids. Miller MA, et al. **J Hum Hypertens** 1996 Jun; 10(6):419–20

Vitamin C and blood pressure––an overview. Ness AR, et al. **J Hum Hypertens** 1997 Jun;11(6):343–50 (51 ref.)

Ambulatory daytime blood pressure in relation to age and gender compared to previous population studies based on office blood pressure. The Danish Study Group on Ambulatory Blood Pressure. Nielsen PE, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S55–8

Loss of circadian blood pressure variability in complete tetraplegia. Nitsche B, et al. **J Hum Hypertens** 1996 May; 10(5):311–7

Serum angiotensin–converting enzyme activity correlates positively with plasma angiotensin II: a population–based study of ambulatory blood pressure and the renin–angiotensin system. Nyström F, et al. **J Hum Hypertens** 1997 May;11(5):301–6

Fourier analysis of circadian blood pressure profile in secondary hypertension. Rabbia F, et al. **J Hum Hypertens** 1997 May;11(5):295–9

White–coat hypertension and cardiac organ damage in elderly subjects. Rizzo V, et al. **J Hum Hypertens** 1996 May;10(5):293–8

Blood pressure pattern in urban and rural areas in Isfahan, Iran. SarrafZadegan N, et al. **J Hum Hypertens** 1997 Jul; 11(7):425–8

Blood pressure during siesta: effect on 24–h ambulatory blood pressure profiles analysis. Stergiou GS, et al. **J Hum Hypertens** 1997 Feb;11(2):125–31

Relationship between self–perceived stress and blood pressure. Suter PM, et al. **J Hum Hypertens** 1997 Mar; 11(3):171–6

Lack of association between copper, zinc, selenium and blood pressure among healthy children. Taittonen L, et al. **J Hum Hypertens** 1997 Jul;11(7):429–33

Effect of metabolic control on 24–h ambulatory blood pressure in elderly non–insulin–dependent diabetic patients. Tovi J, et al. **J Hum Hypertens** 1996 Sep;10(9):589–94

Body mass index is a determinant of blood pressure in young adults with essential hypertensive parents. Health Care Programme of University of Tokyo. Uehara Y, et al. **J Hum Hypertens** 1996 Sep;10(9):601–6

Control of the human cardiovascular system by nitric oxide. Vallance P. **J Hum Hypertens** 1996 Jun;10(6):377–81 (31 ref.)

Prevalence and persistency of orthostatic blood pressure fall in older patients with isolated systolic hypertension. Syst–Eur Investigators. Vanhanen H, et al. **J Hum Hypertens** 1996 Sep;10(9):607–12

Endothelin and blood pressure regulation. Webb DJ. **J Hum Hypertens** 1996 Jun;10(6):383–6 (16 ref.)

The role of blood pressure as a risk factor for renal disease: a review of the epidemiologic evidence. Whelton PK, et al. **J Hum Hypertens** 1996 Oct;10(10):683–9 (44 ref.)

Prevalence of positive Osler's manoeuver in 3387 persons screened for the Systolic Hypertension in the Elderly Program (SHEP). Wright JC, et al. **J Hum Hypertens** 1997 May;11(5):285–9

Blood pressure, insulin, and haematocrit values in Japanese subjects over 60 years of age. Yanagawa T, et al. **J Hum Hypertens** 1997 Jun;11(6):355–9

Sodium, potassium and blood pressure [letter; comment] Alderman M. **J Hypertens** 1996 Dec;14(12):1491. Comment on: J Hypertens 1996 Jun;14(6):737–41.

High end tidal CO2 association with blood pressure response to sodium loading in older adults. Anderson DE, et al. **J Hypertens** 1996 Sep;14(9):1073–9

Exercise and weight control in sedentary overweight men: effects on clinic and ambulatory blood pressure. Cox KL, et al. **J Hypertens** 1996 Jun;14(6):779–90

Arterial blood pressure and left ventricular hypertrophy in haemodialysis patients. de Lima JJ, et al. **J Hypertens** 1996 Aug;14(8):1019–24

The role of exercise in blood pressure control: supportive evidence. Fagard RH. **J Hypertens** 1995 Nov;13(11):1223–7 (70 ref.)

Dietary macronutrients and blood pressure in southwestern China. He J, et al. **J Hypertens** 1995 Nov;13(11):1267–74

Methodological aspects in the assessment of circadian blood pressure variation in the elderly––authors' reply [letter; comment] James MA, et al. **J Hypertens** 1996 Jun; 14(6):807–8. Comment on: J Hypertens 1996 Mar;14(3):411–2.

Longitudinal association of ambulatory pulse pressure with left ventricular mass and vascular hypertrophy in essential hypertension. Khattar RS, et al. **J Hypertens** 1997 Jul; 15(7):737–43

Is blood pressure inversely related to birth weight? The strength of evidence from a systematic review of the literature. Law CM, et al. **J Hypertens** 1996 Aug; 14(8):935–41

Postprandial hypotension and orthostatic blood pressure responses in elderly Parkinson's disease patients. Loew F, et al. **J Hypertens** 1995 Nov;13(11):1291–7

Seasonal variations in office, home and 24 h ambulatory blood pressure in patients with essential hypertension. Minami J, et al. **J Hypertens** 1996 Dec;14(12):1421–5

Prediction of mortality by ambulatory blood pressure monitoring versus screening blood pressure measurements: a pilot study in Ohasama. Ohkubo T, et al. **J Hypertens** 1997 Apr;15(4):357–64

Validation of a continuous baroreceptor reflex sensitivity index calculated from spontaneous fluctuations of blood pressure and pulse interval in rats. Oosting J, et al. **J Hypertens** 1997 Apr;15(4):391–9

Autonomic control of ultradian and circadian rhythms of blood pressure, heart rate, and baroreflex sensitivity in spontaneously hypertensive rats. Oosting J, et al. **J Hypertens** 1997 Apr;15(4):401–10

Osmotically induced natriuresis and blood pressure response involves angiotensin AT1 receptors in the subfornical organ. Rohmeiss P, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1399–404

Plasma lipids, erythrocyte membrane lipids and blood pressure of hypertensive women after ingestion of dietary oleic acid from two different sources. Ruíz–Gutiérrez V, et al. **J Hypertens** 1996 Dec;14(12):1483–90

Relationship between ambulatory and resting blood pressure responses to dietary salt restriction in normotensive men. Schorr U, et al. **J Hypertens** 1997 Aug;15(8):845–9

Associations of orthostatic blood pressure fall in older patients with isolated systolic hypertension. Syst–Eur Investigators. Vanhanen H, et al. **J Hypertens** 1996 Aug; 14(8):943–9

Left ventricular mass in dippers and non–dippers. Verdecchia P. **J Hypertens** 1995 Dec;13(12 Pt 1):1481–3

Blood pressure and isolated systolic hypertension and the risk of coronary heart disease and mortality in elderly men (the Zutphen Elderly Study). Weijenberg MP, et al. **J Hypertens** 1996 Oct;14(10):1159–66

Changes in average blood pressure and incidence of high blood pressure 1983–1984 to 1987–1988 in four population cohorts in the People's Republic of China. The PRC–USA Cardiovascular and Cardiopulmonary Epidemiology Research Group. Wu X, et al. **J Hypertens** 1996 Nov; 14(11):1267–74

Salt, resting arterial pressure and 24 h monitoring [letter; comment] Zoccali C. **J Hypertens** 1997 Apr;15(4):458. Comment on: J Hypertens 1996 Dec;14(12):1455–9.

Neuroprotective drug development in stroke: blood pressure and its impact. McCulloch J. **J Hypertens Suppl** 1996 Dec; 14(5):S131–8 (82 ref.)

Ambulatory blood pressure monitoring. Mancia G, et al. **J Hypertens Suppl** 1996 Sep;14(2):S61–6; discussion S66–8 (41 ref.)

Assessment of antihypertensive treatment by ambulatory blood pressure. Mancia G, et al. **J Hypertens Suppl** 1997 Mar;15(2):S43–50 (26 ref.)

The sympathetic nervous system in hypertension: a potential long–term regulator of arterial pressure. Mark AL. **J Hypertens Suppl** 1996 Dec;14(5):S159–65 (37 ref.)

Environmental influences on blood pressure and the role of job strain. Pickering TG, et al. **J Hypertens Suppl** 1996 Dec;14(5):S179–85 (67 ref.)

How far should blood pressure be reduced in diabetic hypertensive patients? Ruilope LM, et al. **J Hypertens Suppl** 1997 Mar;15(2):S63–5 (17 ref.)

Arterial alterations in hypertension with a disproportionate increase in systolic over diastolic blood pressure. Safar ME, et al. **J Hypertens Suppl** 1996 Sep;14(2):S103–9; discussion S109–10 (36 ref.)

Distribution of blood pressure and influence of subcutaneous fat on systolic and diastolic levels in a tribal population. Babu BV, et al. **J Indian Med Assoc** 1996 Aug;94(8):289–91, 293

Is there a correlation between cardiac sympathetic neuropathy or diabetic somatic neuropathy and glycosylated haemoglobin or blood pressure in patients with non–insulin–dependent diabetes mellitus? Okada S, et al. **J Int Med Res** 1995 Nov–Dec;23(6):467–72

Factors related to aortic pulse–wave velocity in patients with non–insulin–dependent diabetes mellitus. Tanokuchi S, et al. **J Int Med Res** 1995 Nov–Dec;23(6):423–30

Protection against cardiovascular collapse in an alcoholic patient with thiamine deficiency by concomitant alcoholic ketoacidosis. Bakker SJ, et al. **J Intern Med** 1997 Aug; 242(2):179–83

Glucose and insulin levels in young subjects with different maternal histories of hypertension: the Hypertension in Pregnancy Offspring Study. Himmelmann A, et al. **J Intern Med** 1997 Jan;241(1):19–22

Blood pressure in relation to medical, psychological and social variables in a population of 80–year–olds. Survival during 6 years. Jensen E, et al. **J Intern Med** 1997 Mar; 241(3):205–12

Synchronous measurements of blood pressure and red blood cell velocity in capillaries of human skin. Hahn M, et al. **J Invest Dermatol** 1996 Jun;106(6):1256–9

Ambulatory blood pressure measurement in type–II diabetic patients with autonomic neuropathy. Migdalis IN, et al. **J Med** 1996;27(5–6):333–40

Different onset of nucleolar activation in endocardial endothelial cells and cardiomyocytes following pressure overload in rat heart. Horký M, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2475–81

Spectral analysis of heart rate and blood pressure in Guillain–Barré patients with respiratory failure. Pfeiffer G, et al. **J Neurol Sci** 1997 Sep 1;150(1):39–48

Cerebral perfusion pressure [letter; comment] Cruz J. **J Neurosurg** 1996 Aug;85(2):365–7. Comment on: J Neurosurg 1995 Dec;83(6):949–62.

Resection of a large, high–flow arteriovenous malformation during hypotension and hypothermia induced by a percutaneous cardiopulmonary support system. Case report. Iwama T, et al. **J Neurosurg** 1997 Sep;87(3):440–4

Augmenting cerebral perfusion pressure: when is enough too much? Joshi S, et al. **J Neurosurg Anesthesiol** 1996 Jul; 8(3):249–53 (51 ref.)

Applying critical pressure to middle cerebral artery in dogs. Tahta K, et al. **J Neurosurg Sci** 1995 Dec;39(4):237–40

Resuscitation of blood pressure and oxygenation. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):661–6 (15 ref.)

Relationship between blood pressure and cardiac output in preterm infants requiring mechanical ventilation. Kluckow M, et al. **J Pediatr** 1996 Oct;129(4):506–12

Arterial blood pressure changes in children and adolescents with insulin–dependent diabetes mellitus. Theochari MA, et al. **J Pediatr** 1996 Nov;129(5):667–70

The ankle–brachial index in normal neonates and infants is significantly lower than in older children and adults. Katz S, et al. **J Pediatr Surg** 1997 Feb;32(2):269–71

High sensitivity test for the early diagnosis of gestational hypertension and preeclampsia. III. Computation of time–specified tolerance intervals as reference for blood pressure excess in the diagnosis of gestational hypertension. Hermida RC, et al. **J Perinat Med** 1997;25(3):237–53

High sensitivity test for the early diagnosis of gestational hypertension and preeclampsia. IV. Early detection of gestational hypertension and preeclampsia by the computation of a hyperbaric index. Hermida RC, et al. **J Perinat Med** 1997;25(3):254–73

Superoxide anions contribute to impaired regulation of blood pressure by nitric oxide during the development of cardiomyopathy. Gutierrez JA, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1643–9

Circulatory response evoked by a 3 s bout of dynamic leg exercise in humans. Wieling W, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):601–11

Self–efficacy as a component of active coping: effects on cardiovascular reactivity. Gerin W, et al. **J Psychosom Res** 1996 May;40(5):485–93

Blood pressure, self–reported symptoms and job–related problems in schoolteachers. Nykl'ícek I, et al. **J Psychosom Res** 1997 Mar;42(3):287–96

Cynical hostility, anger, and resting blood pressure. Spicer J, et al. **J Psychosom Res** 1996 Apr;40(4):359–68

Blood pressure and age–dependent changes of endothelium–dependent tension oscillations in different strains of spontaneously hypertensive rats. Shimamura K, et al. **J Smooth Muscle Res** 1996 Aug;32(4):145–54

Effect of nitroglycerin and cerebrospinal fluid drainage on spinal cord perfusion pressure and paraplegia during aortic cross–clamping. Marini CP, et al. **J Surg Res** 1997 Jun; 70(1):61–5

Improvement of outcomes after coronary artery bypass [letter; comment] Reves JG, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1118–20. Comment on: J Thorac Cardiovasc Surg 1995 Nov;110(5):1302–11; discussion 1311–4. Comment on: J Thorac Cardiovasc Surg 1996 Jul;112(1):204–6.

Blood pressure measurement in children aged 7–15 years in Sivas region–Türkiye [letter] Kafali G, et al. **J Trop Pediatr** 1997 Aug;43(4):243–8

Effect of lower extremity blood pressure on physical functioning in patients who have intermittent claudication. The Chicago Claudication Outcomes Research Group. Feinglass J, et al. **J Vasc Surg** 1996 Oct;24(4):503–11; discussion 511–2

Branham's sign is an exaggerated Bezold–Jarisch reflex of arteriovenous fistula [letter] Wattanasirichaigoon S, et al. **J Vasc Surg** 1997 Jul;26(1):171–2

Dietary calcium supplementation and blood pressure [letter; comment] Cappuccio FP. **JAMA** 1996 Nov 6; 276(17):1385–6. Comment on: JAMA 1996 Apr 3;275(13):1016–22.

Epidemiologic assessment of the role of blood pressure in stroke: the Framingham Study. 1970 [classical article] [see comments] Kannel WB, et al. **JAMA** 1996 Oct 16; 276(15):1269–78. Comment in: JAMA 1996 Oct 16;276(15):1279–80.

Dietary sodium and blood pressure [letter; comment] Kotchen TA, et al. **JAMA** 1996 Nov 13;276(18):1468; discussion 1469–70. Comment on: JAMA 1996 May 22–29;275(20):1590–7.

Epidemiologic assessment of the role of blood pressure in stroke [comment] Lassen NA. **JAMA** 1996 Oct 16; 276(15):1279–80. Comment on: JAMA 1996 Oct 16;276(15):1269–78.

Dietary sodium and blood pressure [letter; comment] [see comments] MacGregor GA, et al. **JAMA** 1996 Nov 13; 276(18):1468–9; discussion 1469–70. Comment on: JAMA 1996 May 22–29;275(20):1590–7. Comment in: JAMA 1997 May 28;277(20):1594–6.

Dietary sodium and blood pressure [letter; comment] [see comments] Messerli FH, et al. **JAMA** 1996 Nov 13; 276(18):1469; discussion 1469–70. Comment on: JAMA 1996 May 22–29;275(20):1590–7. Comment in: JAMA 1997 May 28;277(20):1594–6.

Patterns of orthostatic blood pressure change and their clinical correlates in a frail, elderly population. Ooi WL, et al. **JAMA** 1997 Apr 23–30;277(16):1299–304

More on dietary sodium and blood pressure [letter; comment] Stamler J, et al. **JAMA** 1997 May 28;277(20):1594–6. Comment on: JAMA 1996 Nov 13;276(18):1467; discussion 1469–70. Comment on: JAMA 1996 Nov 13;276(18):1467–8; discussion 1469–70. Comment on: JAMA 1996 Nov 13;276(18):1468–9; discussion 1469–70. Comment on: JAMA 1996 Nov 13;276(18):1469; discussion 1469–70.

Dietary sodium and blood pressure [letter; comment] [see comments] Stamler J. **JAMA** 1996 Nov 13;276(18):1467; discussion 1469–70. Comment on: JAMA 1996 May 22–29;275(20):1590–7. Comment in: JAMA 1997 May 28;277(20):1594–6.

Dietary sodium and blood pressure [letter; comment] [see comments] Whelton PK, et al. **JAMA** 1996 Nov 13; 276(18):1467–8; discussion 1469–70. Comment on: JAMA 1996 May 22–29;275(20):1590–7. Comment in: JAMA 1997 May 28;277(20):1594–6.

Effect of intraluminal pressure on the intimal thickening in injured rabbit carotid arteries in an organ–culture system. Horiuchi H, et al. **Jpn Circ J** 1997 Aug;61(8):704–8

Pressure–interval relationship characterizes left ventricular irregular beat contractilities and their mean level during atrial fibrillation. Yamaguchi H, et al. **Jpn J Physiol** 1997 Feb;47(1):101–10

Influence of nycthemeral blood pressure pattern in treated hypertensive patients on hemodialysis. Amar J, et al. **Kidney Int** 1997 Jun;51(6):1863–6

Impact of nitric oxide deficiency on blood pressure and glomerular hemodynamic adaptations to pregnancy in the rat. Deng A, et al. **Kidney Int** 1996 Oct;50(4):1132–8

Low diastolic blood pressure, hypoalbuminemia, and risk of death in a cohort of chronic hemodialysis patients. Iseki K, et al. **Kidney Int** 1997 Apr;51(4):1212–7

Early increase in blood pressure and diastolic left ventricular malfunction in patients with glomerulonephritis. Stefanski A, et al. **Kidney Int** 1996 Oct;50(4):1321–6

Activated and inactivated renin–angiotensin system in transgenic animals: from genes to blood pressure. Fukamizu A, et al. **Lab Anim Sci** 1997 Apr;47(2):127–31 (36 ref.)

Characterization of hypertensive and hypotensive inbred strains of mice. Schlager G, et al. **Lab Anim Sci** 1997 Jun; 47(3):288–92

Randomised placebo–controlled trial of lisinopril in normotensive patients with insulin–dependent diabetes and normoalbuminuria or microalbuminuria. The EUCLID Study Group [see comments] **Lancet** 1997 Jun 21; 349(9068):1787–92. Comment in: Lancet 1997 Jun 21;349(9068):1782–3.

Blood pressure in pregnancy and fetal growth [letter; comment] Ayuk P. **Lancet** 1997 Mar 15;349(9054):802; discussion 802–3. Comment on: Lancet 1997 Jan 4;349(9044):7–10.

Ambulatory blood pressure in pregnancy and fetal growth [see comments] Churchill D, et al. **Lancet** 1997 Jan 4; 349(9044):7–10. Comment in: Lancet 1997 Mar 15;349(9054):802; discussion 802–3.

Horn playing and blood pressure [letter] [see comments] Harris LR. **Lancet** 1996 Oct 12;348(9033):1042. Comment in: Lancet 1996 Nov 30;348(9040):1528.

Blood pressure and cholesterol in fish–eaters versus vegetarians [letter; comment] Lavine JB. **Lancet** 1996 Nov 23;348(9039):1460. Comment on: Lancet 1996 Sep 21;348(9030):784–8.

Pep(pery) talk on salt [letter; comment] MacGregor G, et al. **Lancet** 1996 Nov 23;348(9039):1453. Comment on: Lancet 1996 Sep 7;348(9028):690–1.

Blood pressure measurement in severe pre–eclampsia [letter] Penny JA, et al. **Lancet** 1997 May 24;349(9064):1518

Blood pressure in pregnancy and fetal growth [letter; comment] Taylor SJ, et al. **Lancet** 1997 Mar 15; 349(9054):802; discussion 802–3. Comment on: Lancet 1997 Jan 4;349(9044):7–10.

When should ACE inhibitors be given to normotensive patients with IDDM [comment] Wang PH. **Lancet** 1997 Jun 21;349(9068):1782–3. Comment on: Lancet 1997 Jun 21;349(9068):1787–92.

Current clinical pathophysiologic considerations in essential hypertension. Frohlich ED. **Med Clin North Am** 1997 Sep; 81(5):1113–29 (109 ref.)

Ankle to arm index following maximal exercise in normal subjects and athletes. Desvaux B, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):836–9

Cardiovascular and peak VO2 responses to supine exercise: effects of age and training status. Proctor DN, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):892–9

Hemodynamic patterns and duration of post–dynamic exercise hypotension in hypertensive humans. Rueckert PA, et al. **Med Sci Sports Exerc** 1996 Jan;28(1):24–32

The equilibrium CO2 rebreathing method does not affect resting or exercise blood pressure. Turner MJ, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):921–5

Lipolytic sensitivity and response to fasting in normotensive and hypertensive obese humans. Townsend RR, et al. **Metabolism** 1997 Sep;46(9):1080–4

Pressure dependence of so–called transtrophoblastic channels during fetal perfusion of human placental villi. Kertschanska S, et al. **Microsc Res Tech** 1997 Jul 1–15; 38(1–2):52–62

Retiree awareness of levels of blood pressure and cholesterol. Blount BW, et al. **Mil Med** 1996 Nov;161(11):683–6

Dietary linolenic acid–mediated increase in vascular prostacyclin formation. Rupp H, et al. **Mol Cell Biochem** 1996 Sep 6;162(1):59–64

Ethnic differences in blood pressure: findings from the Fletcher Challenge–Auckland University Heart and Health Study. Bullen C, et al. **N Z Med J** 1996 Oct 25; 109(1032):395–7

Trends in blood pressure in youth: a study from south India [letter] Sajjan BS, et al. **Natl Med J India** 1996 Nov–Dec; 9(6):297

Promoters of progression of diabetic nephropathy: the relative roles of blood glucose and blood pressure control. Alaveras AE, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:71–4

Cell calcium and arterial blood pressure [editorial] Gonzalez JM, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1507–8

How to keep the dialysis patients normotensive? What is the secret of Tassin? Laurent G. **Nephrol Dial Transplant** 1997 Jun;12(6):1104

New insights into mechanisms of blood pressure regulation in patients with uraemia. Ritz E, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:52–9 (66 ref.)

Is interdialytic blood pressure profile related to structural changes of arteries in haemodialysis patients [letter] Fabbian F, et al. **Nephron** 1996;74(2):491–2

Hypoxia–induced Fos expression in neurons projecting to the pressor region in the rostral ventrolateral medulla. Hirooka Y, et al. **Neuroscience** 1997 Oct;80(4):1209–24

Predictive value of carotid artery stump pressures during carotid endarterectomy. Whitley D, et al. **Neurosurg Clin N Am** 1996 Oct;7(4):723–32 (29 ref.)

Impact of cerebral perfusion pressure and autoregulation on intracranial dynamics: a modeling study. Giulioni M, et al. **Neurosurgery** 1996 Nov;39(5):1005–14; discussion 1014–5

Blood pressure patterns in normal pregnancy and in pregnancy–induced hypertension, preeclampsia, and chronic hypertension. Benedetto C, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):503–10

Noninvasive beat–to–beat arterial blood pressure measurement during VVI and DDD pacing: relationship to symptomatic benefit from DDD pacing. Channon KM, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):25–33

Prenatal and postnatal factors in predicting later blood pressure among children: cardiovascular risk in young Finns. Taittonen L, et al. **Pediatr Res** 1996 Oct;40(4):627–32

Opioid peptide modulation of circulatory and endocrine response to mental stress in humans. Fontana F, et al. **Peptides** 1997;18(2):169–75

Chronobiometric assessment of autogenic training effects upon blood pressure and heart rate. Watanabe Y, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1395–410

Blood pressure and flow rate in the giraffe jugular vein. Pedley TJ, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Jul 29;351(1342):855–66

Angiotensin mediated interaction of fetal kidney and placenta in the control of fetal arterial pressure and its role in hydrops fetalis. Faber JJ, et al. **Placenta** 1997 May; 18(4):313–26 (43 ref.)

Arterial blood pressure and effective peritoneal blood flow during intermittent peritoneal dialysis. Grzegorzewska A, et al. **Pol J Pharmacol** 1996 Jan–Feb;48(1):99–103

Resistant hypertension. Suggestions for dealing with the problem. Gandhi S, et al. **Postgrad Med** 1996 Oct; 100(4):97–102, 107–8 (30 ref.)

On an ambulance stretcher suspension concerned with the reduction of patient's blood pressure variation. Sagawa K, et al. **Proc Inst Mech Eng [H]** 1997;211(2):199–208

Elevated blood pressures in mice lacking endothelial nitric oxide synthase. Shesely EG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13176–81

Insulin–like growth factor–I decreases mean blood pressure and selectively increases regional blood flow in normal rats. Pete G, et al. **Proc Soc Exp Biol Med** 1996 Nov; 213(2):187–92

Lifestyle incongruity and adult blood pressure in Western

Samoa. Chin-Hong PV, et al. **Psychosom Med** 1996 Mar-Apr;58(2):131-7

The influence of resting blood pressure and gender on pain responses. Fillingim RB, et al. **Psychosom Med** 1996 Jul-Aug;58(4):326-32

Clinical effects of blood pressure biofeedback treatment on hypertension by auto-shaping. Nakao M, et al. **Psychosom Med** 1997 May-Jun;59(3):331-8

Effects of cynical hostility, anger out, anxiety, and defensiveness on ambulatory blood pressure in black and white college students. Shapiro D, et al. **Psychosom Med** 1996 Jul-Aug;58(4):354-64

Blood pressure in 13 American Indian communities: the Strong Heart Study. Howard BV. **Public Health Rep** 1996; 111 Suppl 2:47-8

Comparisons of blood pressure between Asian-American children and children from other racial groups in Chicago. Liu K, et al. **Public Health Rep** 1996;111 Suppl 2:65-7

Blood pressure among Mexican-American, Cuban-American, and mainland Puerto Rican children. Loria CM, et al. **Public Health Rep** 1996;111 Suppl 2:22-4

Blood pressure in minorities screened for the Multiple Risk Factor Intervention Trial (MRFIT). Sherwin R, et al. **Public Health Rep** 1996;111 Suppl 2:68-70

Sociodemographic influences on Hispanic-white differences in blood pressure. Winkleby MA, et al. **Public Health Rep** 1996;111 Suppl 2:30-2

Specific insulin assays, insulin sensitivity and blood pressure. Petrie JR, et al. **QJM** 1997 Jul;90(7):465-75

Influence of 50-Hz electric and magnetic fields on human blood pressure. Korpinen L, et al. **Radiat Environ Biophys** 1996 Aug;35(3):199-204

Comparison of direct and indirect (oscillometric) measurements of arterial blood pressure in conscious dogs. Bodey AR, et al. **Res Vet Sci** 1996 Jul;61(1):17-21

Factor analysis, a more accurate method to be used in epidemiological studies of blood pressure in children. Macedo MA, et al. **Rev Port Cardiol** 1997 Feb;16(2):141-6, 123

Detection of respiratory frequency in the recordings of electrocardiogram, blood pressure or sympathetic nerve activity in the conscious rat. Nakamura T, et al. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):177-84

New study says low-fat diet can lower blood pressure [news] Taubes G. **Science** 1997 Apr 18;276(5311):350

General practice blood pressure recording in Scotland: variations in the classification of hypertension. Henderson BS, et al. **Scott Med J** 1996 Aug;41(4):108-9

Volumetric assessment of preload in trauma patients: addressing the problem of mathematical coupling [see comments] Chang MC, et al. **Shock** 1996 Nov;6(5):326-9 . Comment in: Shock 1997 Mar;7(3):230-1.

Mathematical coupling and Starling's law of the heart [letter; comment] Chang MC, et al. **Shock** 1997 Mar;7(3):230-1. Comment on: Shock 1996 Nov;6(5):326-9. Comment on: Shock 1996 Nov;6(5):330.

Mathematical coupling and Starling's law of the heart [editorial; comment] [see comments] McNamee JE, et al. **Shock** 1996 Nov;6(5):330. Comment on: Shock 1996 Nov;6(5):326-9. Comment in: Shock 1997 Mar;7(3):230-1.

Progressive gastric intramucosal acidosis follows resuscitation from hemorrhagic shock. Oud L, et al. **Shock** 1996 Jul;6(1):61-5

Ambulatory blood pressure on and off continuous positive airway pressure therapy for the sleep apnea/hypopnea syndrome: effects in "non-dippers". Engleman HM, et al. **Sleep** 1996 Jun;19(5):378-81

Blood pressure "dipping" and "non-dipping" in obstructive sleep apnea syndrome patients. Suzuki M, et al. **Sleep** 1996 Jun;19(5):382-7

Psychosocial factors in blood pressure variation: a comparative study of young Samoans. Hanna JM. **Soc Biol** 1996 Fall-Winter;43(3-4):169-90

Back muscle injury after posterior lumbar spine surgery. Topographic evaluation of intramuscular pressure and blood flow in the porcine back muscle during surgery. Kawaguchi Y, et al. **Spine** 1996 Nov 15;21(22):2683-8

Prognostic value and determinants of first-day mean arterial pressure in spontaneous supratentorial intracerebral hemorrhage. Fogelholm R, et al. **Stroke** 1997 Jul; 28(7):1396-400

Blood pressure changes in acute cerebral infarction and hemorrhage. Morfis L, et al. **Stroke** 1997 Jul;28(7):1401-5

Compensatory increase in common carotid artery diameter. Relation to blood pressure and artery intima-media thickness in older adults. Cardiovascular Health Study. Polak JF, et al. **Stroke** 1996 Nov;27(11):2012-5

Identification of posttraumatic ischemia and hyperperfusion by determination of the effect of induced arterial hypertension on carbon dioxide reactivity. Steiger HJ, et al. **Stroke** 1996 Nov;27(11):2048-51

Prognostic value of admission blood pressure in patients with intracerebral hemorrhage. Keio Cooperative Stroke Study. Terayama Y, et al. **Stroke** 1997 Jun;28(6):1185-8

Impaired cerebral autoregulation after mild brain injury. Strebel S, et al. **Surg Neurol** 1997 Feb;47(2):128-31

Is cardiac reinnervation in heart transplant recipients functionally significant? Insight from studies of diurnal blood pressure variability and cardiac mass. Jenkins GH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):571

Changes in blood pressure and renal function after subtotal parathyroidectomy in renal transplant patients presenting persistent hypercalcemic hyperparathyroidism. Rostaing L, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):204-6

Peripheral renin activity predicts blood pressure control after bilateral nephrectomy in renal transplant patients. Teixeira MC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):220-1

Effects of pentoxifylline on renal function and blood pressure in cardiac transplant recipients: a randomized trial. Frantz RP, et al. **Transplantation** 1997 Jun 15;63(11):1607-10

A noninvasive method to estimate arterial impedance by means of assessment of local diameter change and the local center-line blood flow velocity using ultrasound. Brands PJ, et al. **Ultrasound Med Biol** 1996;22(7):895-905

Evaluation of an oscillometric blood pressure monitor on anesthetized cats and the effect of cuff placement and fur on accuracy. Branson KR, et al. **Vet Surg** 1997 Jul-Aug; 26(4):347-53

Laparoscopic approach to pheochromocytoma: hemodynamic changes and catecholamine secretion. Fernández-Cruz L, et al. **World J Surg** 1996 Sep; 20(7):762-8; discussion 768

Effect of pneumoperitoneum on interatrial pressure gradient during laparoscopic cholecystectomy. Iwase K, et al. **World J Surg** 1996 Feb;20(2):234-7

[Decrease of nocturnal blood pressure in type II diabetic subjects with microalbuminuria] Berrut G, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1041-4 (Eng. Abstr.) **(Fre)**

[Circadian variations of blood pressure] Chanudet X, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):963-70 (47 ref.) (Eng. Abstr.) **(Fre)**

[Relationship between end-systolic aortic pressure and mean aortic pressure in adults] Hébert JL, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1633-42 (31 ref.) (Eng. Abstr.) **(Fre)**

[Heart rate and blood pressure variabilities in mild to moderate hypertensive patients with or without left ventricular hypertrophy] Herpin D, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1059-63 (Eng. Abstr.) **(Fre)**

[Short term blood pressure variability and baroreflex sensitivity in mild and moderate hypertensive patients "dipper and non dipper"] Herpin D, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1087-90 (Eng. Abstr.) **(Fre)**

[Development of blood pressure level over a three years period in non-insulin dependent diabetic subjects according to their microalbuminuria] Mayaudon H, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1045-9 (Eng. Abstr.) **(Fre)**

[Evaluation of the degree of diabetic dysautonomy with the analysis of heart rate measured at rest with the FINAPRES system] Mestivier D, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1051-4 (Eng. Abstr.) **(Fre)**

[Left diastolic ventricular function, systolic blood pressure and erythrocyte magnesium in young type I diabetics] Rusu ML, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):983-5 (Eng. Abstr.) **(Fre)**

[Interpretation of the cardiovascular effects of a 38-degrees C. bath] Cession-Fossion A, et al. **J Belge Med Phys Rehabil** 1980;3(1):53-61 **(Fre)**

[Blood pressure and cognitive function (news)] Tzourio C. **Rev Epidemiol Sante Publique** 1996 Aug;44(4):381-2 **(Fre)**

[Coronary risk factors in chronic hemodialysis patients] Lübbecke F, et al. **Med Klin** 1996 Nov 15;91(11):687-93 (Eng. Abstr.) **(Ger)**

[Measurements of intracoronary pressure and blood flow velocity] Seiler C, et al. **Schweiz Rundsch Med Prax** 1997 Apr 16;86(16):649-54 (34 ref.) (Eng. Abstr.) **(Ger)**

[White coat arterial hypertension: ultrasonographic study of the carotid arteries] Pellegrino L, et al. **Cardiologia** 1996 Aug;41(8):767-75 (49 ref.) (Eng. Abstr.) **(Ita)**

[Determination of the arterial pressure in premature and term newborns via 24-hour monitoring] Menghetti E, et al. **Minerva Pediatr** 1996 Jan-Feb;48(1-2):29-31 (Eng. Abstr.) **(Ita)**

[Induced hypertensive chemotherapy with angiotensin-II for liver metastases from gastric cancer] Iwasaki Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1558-60 (Eng. Abstr.) **(Jpn)**

[Influence of recirculation type blood cardioplegia on perfusion pressure in open heart surgery] Watanabe T, et al. **Kyobu Geka** 1996 Aug;49(9):716-20 (Eng. Abstr.) **(Jpn)**

[Endothelin levels after extracorporeal shock waves, effects of renal function and blood pressure in rats] Masui N, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug; 87(8):1018-25 (Eng. Abstr.) **(Jpn)**

[Blood pressure and renin in long-term hemodialysis patients] Shin J, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):13-21 (Eng. Abstr.) **(Jpn)**

[Significance of high normal blood pressure in occupational health care] Izuno T, et al. **Nippon Koshu Eisei Zasshi** 1996 Jan;43(1):3-8 (Eng. Abstr.) **(Jpn)**

[Circadian variation in blood pressure in elderly hypertensive patients] Toyoshima T, et al. **Nippon Ronen Igakkai Zasshi** 1996 Aug;33(8):592-6 (Eng. Abstr.) **(Jpn)**

[Hemodynamic structure of antiorthostatic reactions: relationship of mechanical activity of the heart and arterial pressure] Osadchiĭ LI, et al. **Aviakosm Ekolog Med** 1997; 31(3):19-23 (Eng. Abstr.) **(Rus)**

[Blood pressure of the hepatic artery in measured bleeding and its association with occlusion in experimental animals] Uzhva VP. **Klin Khir** 1996;(8):32-3 **(Rus)**

[The dynamics of the elevated arterial pressure during exposure to different regimens of physical training] Kocharov AM, et al. **Ter Arkh** 1996;68(11):56-9 **(Rus)**

[The effect of parathormone on arterial blood pressure in patients on hemodialysis] Kostić S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:115-6 (Eng. Abstr.) **(Scc)**

[Continuous blood pressure monitoring over a 24-hour period in children with terminal renal failure treated with hemodialysis] Pejčić I, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:94-6 (Eng. Abstr.) **(Scc)**

[Circadian rhythm of blood pressure and daily hormonal variations] Kostić N, et al. **Med Pregl** 1997 Jan-Feb; 50(1-2):37-40 (Eng. Abstr.) **(Scr)**

[Autonomic nervous system tests in the classification of patients at risk for sudden cardiac death] Kaliská G, et al. **Bratisl Lek Listy** 1996 Aug;97(8):473-8 (Eng. Abstr.) **(Slo)**

[Ambulatory blood pressure monitoring: is it useful in pediatrics?] Lurbe E, et al. **An Esp Pediatr** 1996 Aug; 45(2):121-4 **(Spa)**

[The long-term results on arterial pressure and kidney function after the percutaneous transluminal dilatation of renal artery stenosis] Rodríguez Pérez JC, et al. **Med Clin (Barc)** 1997 Mar 15;108(10):366-72 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Out-of-hospital administration of mannitol to head-injured patients does not change systolic blood pressure. Sayre MR, et al. **Acad Emerg Med** 1996 Sep;3(9):840-8

Nitric oxide and toxicity of contrast material. Lasser EC, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S204-6

Esmolol for hypotensive anesthesia in middle ear surgery. Pilli G, et al. **Acta Anaesthesiol Belg** 1996;47(2):85-91

Effect of esmolol on the heart rate, arterial pressure and electrocardiographic changes during laryngomicroscopy. Korpinen R, et al. **Acta Anaesthesiol Scand** 1997 Mar; 41(3):371-5

Nebulized tetracaine attenuates the hemodynamic response to tracheal intubation. Stevens JB, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):757-9

Mivazerol, a new alpha 2-adrenergic agonist, blunts cardiovascular effects following surgical stress in pentobarbital-anesthetized rats. Zhang X, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):694-700

The comparative potency of intravenous nicardipine and verapamil on the cardiovascular response to tracheal intubation. Chen CC, et al. **Acta Anaesthesiol Sin** 1996 Dec; 34(4):197-202

High dose intravenous labetalol for the resection of metastatic pheochromocytoma [published erratum appears in Acta Anaesthesiol Sin 1997 Mar;35(1):59] Chung PC, et al. **Acta Anaesthesiol Sin** 1996 Dec;34(4):235-8

Cardiovascular and renal effects of endothelin receptor blockade with PD 145065 and interaction with urodilatin. Dobrowolski L, et al. **Acta Physiol Scand** 1997 Jan; 159(1):7-13

Effects of sympathetic inhibition on blood pressure and renal responses to central hypervolaemia in normal humans. Kreutz R, et al. **Acta Physiol Scand** 1996 Jan;156(1):1-7

Effects of 1,1-dimethylguanidine administration on blood pressure, heart rate and renal sympathetic nerve activity in normotensive and spontaneously hypertensive rats. Zhang W, et al. **Acta Physiol Scand** 1997 Jan;159(1):1-6

Synthesis and biological activities of some 7,8-dihydroimidazo[1,2-a]-1,3,5-triazine derivatives. Sączewski F, et al. **Acta Pol Pharm** 1995 May-Jun; 52(3):237-40

Effects of oral taurine supplementation on lipids and sympathetic nerve tone. Mizushima S, et al. **Adv Exp Med Biol** 1996;403:615-22

Ethanol suppresses endotoxin but not platelet activating factor-induced hypotension and nitric oxide. Greenberg SS, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1260-8

Effect of chronic ethanol consumption on the atrial natriuretic system of spontaneously hypertensive rats. Guillaume P, et al. **Alcohol Clin Exp Res** 1996 Dec; 20(9):1653-61

Relationships between depressive symptoms, anxiety, alcohol consumption, and blood pressure: results from the CARDIA Study. Coronary Artery Risk Development in Young Adults Study. Jones-Webb R, et al. **Alcohol Clin Exp Res** 1996 May;20(3):420-7

Novel delivery system for verapamil designed to achieve maximal blood pressure control during the early morning. Neutel JM, et al. **Am Heart J** 1996 Dec;132(6):1202-6

Nonsteroidal anti-inflammatory drugs (NSAIDs) and blood pressure [editorial] Fierro-Carrion GA, et al. **Am J Cardiol** 1997 Sep 15;80(6):775-6

Prognostic significance of systolic blood pressure changes during dobutamine-atropine stress technetium-99m sestamibi perfusion scintigraphy in patients with chest pain and known or suspected coronary artery disease. Geleijnse ML, et al. **Am J Cardiol** 1997 Apr 15;79(8):1031-5

Impact of metoprolol on heart rate, blood pressure, and contractility in normal subjects during dobutamine stress echocardiography. Marcovitz PA, et al. **Am J Cardiol** 1997 Aug 1;80(3):386-8

BLOOD PRESSURE

Effects of acute administration of transdermal estrogen on postmenopausal women with systemic hypertension. Mercuro G, et al. **Am J Cardiol** 1997 Sep 1;80(5):652–5

Effect of sustained-release Verapamil on the morning systemic arterial pressure surge during daily activity in patients with systemic hypertension. Rosito GA, et al. **Am J Cardiol** 1997 May 1;79(9):1052–5

Effects of controlled-onset extended-release verapamil on nocturnal blood pressure (dippers versus nondippers). COER-Verapamil Study Group. White WB, et al. **Am J Cardiol** 1997 Aug 15;80(4):469–74

Hachimi-jio-gan extract protects the kidney from hypertensive injury in Dahl salt-sensitive rat. Hirawa N, et al. **Am J Chin Med** 1996;24(3–4):241–54

A placebo-controlled study of the effect of sour milk on blood pressure in hypertensive subjects. Hata Y, et al. **Am J Clin Nutr** 1996 Nov;64(5):767–71

Dietary sodium and blood pressure: interactions with other nutrients. Kotchen TA, et al. **Am J Clin Nutr** 1997 Feb; 65(2 Suppl):708S–711S (61 ref.)

Apolipoprotein E phenotype and diet-induced alteration in blood pressure. Rantala M, et al. **Am J Clin Nutr** 1997 Feb;65(2):543–50

Effects of verapamil SR, trandolapril, and their fixed combination on 24-h blood pressure: the Veratran Study. **Am J Hypertens** 1997 May;10(5 Pt 1):492–9

Albuminuria and transferrinuria in essential hypertension. Effects of antihypertensive therapy. Alli C, et al. **Am J Hypertens** 1996 Nov;9(11):1068–76

Salt intake and reductions in arterial pressure and proteinuria. Is there a direct link? Bakris GL, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 2):200S–206S (75 ref.)

Human brain natriuretic peptide reduces blood pressure in normotensive and acute norepinephrine-induced hypertensive rabbits. Clemens LE, et al. **Am J Hypertens** 1997 Jun;10(6):654–61

Chronic salt overload increases blood pressure and improves glucose metabolism without changing insulin sensitivity. da Costa Lima NK, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):720–7

Evaluation of a rapid protocol for the assessment of salt sensitivity against the blood pressure response to dietary sodium chloride restriction. Galletti F, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):462–6

Remikiren (Ro 42–5892)—an orally active renin inhibitor in essential hypertension. Effects on blood pressure and the renin–angiotensin–aldosterone system. Himmelmann A, et al. **Am J Hypertens** 1996 Jun;9(6):517–22

Differential effects of amlodipine on ambulatory blood pressure in elderly hypertensive patients with different nocturnal reductions in blood pressure. Kario K, et al. **Am J Hypertens** 1997 Mar;10(3):261–8

Effects of low-dose epinephrine infusion on cardiovascular and renal responses to water immersion in humans. Kruse HJ, et al. **Am J Hypertens** 1996 Sep;9(9):902–8

Salt and blood pressure: population and individual perspectives. Kuller LH. **Am J Hypertens** 1997 May;10(5 Pt 2):29S–36S (35 ref.)

Epidemiologic evidence on salt and blood pressure. Law MR. **Am J Hypertens** 1997 May;10(5 Pt 2):42S–45S (19 ref.)

Clinical relevance of 24 h blood pressure control by 1,4-dihydropyridines. Leenen FH. **Am J Hypertens** 1996 Oct;9(10 Pt 2):97S–104S; discussion 108S–109S (61 ref.)

Chronic estrogen treatment in female transgenic (mRen2)27 hypertensive rats augments endothelium-derived nitric oxide release. Li P, et al. **Am J Hypertens** 1997 Jun; 10(6):662–70

The effects of isradipine and spirapril as monotherapy and combined therapy on blood pressure, renal hemodynamics, natriuresis, and urinary kallikrein in hypertensive nephropathy. Maccariello ER, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):541–5

Blood pressure and metabolic responses to moderate sodium restriction in isradipine-treated hypertensive patients. McCarron DA, et al. **Am J Hypertens** 1997 Jan;10(1):68–76

Effects of SC-52458, an angiotensin AT1 receptor antagonist, in the dog. McMahon EG, et al. **Am J Hypertens** 1997 Jun;10(6):671–7

Pressure-heart rate responses to alpha-adrenergic stimulation and hormonal regulation in normotensive patients with obstructive sleep apnea. Maillard D, et al. **Am J Hypertens** 1997 Jan;10(1):24–31

Effects of antihypertensive drugs on blood pressure and metabolic alterations in the fructose-induced hypertensive rat. Navarro-Cid J, et al. **Am J Hypertens** 1996 Jul; 9(7):669–74

Renal and vascular consequences of the chronic nitric oxide synthase inhibition. Effects of antihypertensive drugs. Navarro-Cid J, et al. **Am J Hypertens** 1996 Nov; 9(11):1077–83

Effects of erythropoietin administration on blood pressure and urinary albumin excretion in rats. Panzacchi G, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):772–8

The great Hanshin-Awaji earthquake aggravates blood pressure control in treated hypertensive patients. Saito K, et al. **Am J Hypertens** 1997 Feb;10(2):217–21

High calcium diet reduces blood pressure in exercised and nonexercised hypertensive rats. Sallinen K, et al. **Am J Hypertens** 1996 Feb;9(2):144–56 (53 ref.)

Blood pressure control for the hypertensive patient: what can we do better? Sever PS. **Am J Hypertens** 1997 Jul;10(7 Pt 2):128S–130S (13 ref.)

The effects of angiotensin II receptor blockade with losartan on systemic blood pressure and renal and extrarenal prostaglandin synthesis in women with essential hypertension. Smith MC, et al. **Am J Hypertens** 1995 Dec; 8(12 Pt 1):1177–83

Sodium, potassium, and blood pressure. Weinberger MH. **Am J Hypertens** 1997 May;10(5 Pt 2):46S–48S (19 ref.)

Insulin resistance and salt sensitivity. A renal hemodynamic abnormality? Weir MR. **Am J Hypertens** 1996 Dec;9(12 Pt 2):193S–199S (74 ref.)

Hormone replacement therapy with conjugated estrogens and high blood pressure: response to Dr. Jespersen [letter] Wong PS, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):579

Effects of 2,3-butanedione monoxime on blood pressure, myocardial Ca2+ currents, and action potentials of rats. Xiao YF, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1232–40

Short-term effects of blood pressure control and antihypertensive drug regimen on glomerular filtration rate: the African-American Study of Kidney Disease and Hypertension Pilot Study. Hall WD, et al. **Am J Kidney Dis** 1997 May;29(5):720–8

Effect of ramipril on blood pressure and protein excretion rate in normotensive nondiabetic patients with proteinuria. Toto RD, et al. **Am J Kidney Dis** 1996 Dec;28(6):832–40

The effect of nonsteroidal antiinflammatory drugs on electrolyte homeostasis and blood pressure in young and elderly persons with and without renal insufficiency. Murray MD, et al. **Am J Med Sci** 1997 Aug;314(2):80–8

The effect of high dietary n-3 fatty acid supplementation on angiotensin II pressor response in human pregnancy. Adair CD, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):688–91

Effect of antenatal thyrotropin-releasing hormone on uterine contractility, blood pressure, and maternal heart rate. Devlieger R, et al. **Am J Obstet Gynecol** 1997 Aug; 177(2):431–3

The effect of chronic nitric oxide synthesis inhibition on blood pressure and angiotensin II responsiveness in the pregnant rat. Lubarsky SL, et al. **Am J Obstet Gynecol** 1997 May;176(5):1069–76

Effects of chronic infusion of angiotensin II on renin and blood pressure in the late-gestation fetal sheep. Stanley JR, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):931–7

Cardiovascular effects of topical carteolol hydrochloride and timolol maleate in patients with ocular hypertension and primary open-angle glaucoma. Night Study Group. Netland PA, et al. **Am J Ophthalmol** 1997 Apr; 123(4):465–77

Adrenomedullin microinjection into the area postrema increases blood pressure. Allen MA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1698–703

Central injection of physostigmine attenuates exercise-induced pressor response in conscious cats. Ally A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R393–9

Central 5-HT1A modulation of cardiovascular responses to tibial nerve stimulation-evoked muscle contraction. Ally A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1020–7

Cardiovascular effects of microinjection of low doses of serotonin into the NTS of unanesthetized rats. Callera JC, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1135–42

Vasodilator responses to acetylcholine, bradykinin, and substance P are mediated by a TEA-sensitive mechanism. Champion HC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R414–22

Differential effects of L-N5-(1-iminoethyl)-ornithine on tone and endothelium-dependent vasodilator responses. DeWitt BJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L588–94

Acute depressor actions of angiotensin II in the nucleus of the solitary tract are mediated by substance P. Diz DI, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R28–34

L-arginine for testing endothelium-dependent vascular functions in health and disease. Giugliano D, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E606–12

Increased cardiac ppENK mRNA in cardiac hypertrophy and effects on blood pressure of its peptide products. Hao JM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2885–94

Medullary pathways mediating depressor responses from Na(+)-sensitive sites in nucleus of the solitary tract. Hochstenbach SL, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R126–33

Angiotensin II responses in AT1A receptor-deficient mice: a role for AT1B receptors in blood pressure regulation. Oliverio MI, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F515–20

Cardiovascular effects of homologous bradykinin in rainbow trout. Olson KR, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1112–20

Effects of progesterone on blood pressure, plasma volume, and responses to hypotension. Pecins-Thompson M, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R377–85

Progesterone rapidly reduces arterial pressure in ewes. Roesch DM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H386–91

Mechanisms of centrally administered ET-1-induced increases in systemic arterial pressure and AVP secretion. Rossi NF, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E126–32

Pulmonary vascular pressure effects by endothelin-1 in normoxia and chronic hypoxia: a longitudinal study. Tjen-A-Looi S, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2246–53

Endothelin-mediated effect of erythropoietin on blood pressure and renal hemodynamics in hypertensive rats. Tojo A, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R744–8

Resistance to mineralocorticoids in Wistar-Furth rats. Ullian ME, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1454–61

Renal resistance to ANF in salt-depleted rats is independent of sympathetic or ANG-aldosterone systems. Veress AT, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F545–50

Sexual dimorphism in regional blood flow responses to vasopressin in conscious rats. Wang YX, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1126–31

Obligatory role of NO in glutamate-dependent hyperemia evoked from cerebellar parallel fibers. Yang G, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1155–61

Antihypertensive and vasculo- and renoprotective effects of pioglitazone in genetically obese diabetic rats. Yoshimoto T, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E989–96

The renin-angiotensin-aldosterone system in experimental mineralocorticoid-salt-induced cardiac fibrosis. Young MJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E883–8

Nitric oxide within the paraventricular nucleus mediates changes in renal sympathetic nerve activity. Zhang K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R864–72

Somatosensory influences on renal sympathetic nerve activity in anesthetized Wistar and hypertensive rats. Zhang T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R982–90

Behavioral and neuroendocrine responses to sodium lactate infusion in subjects with posttraumatic stress disorder. Jensen CF, et al. **Am J Psychiatry** 1997 Feb;154(2):266–8

Systemic, pulmonary and mesenteric perfusion and oxygenation effects of dopamine and epinephrine. Cheung PY, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):32–7

Effects of certain vasoactive agents on the long-term pattern of blood pressure, heart rate, and motor activity in cats. Brown SA, et al. **Am J Vet Res** 1997 Jun;58(6):647–52

Comparative cardiopulmonary effects of intramuscularly administered etorphine and carfentanil in goats. Heard DJ, et al. **Am J Vet Res** 1996 Jan;57(1):87–96

Use of detergent to prevent initial responses to endotoxin in horses. Longworth KE, et al. **Am J Vet Res** 1996 Jul; 57(7):1063–6

Pulmonary vascular pressures of strenuously exercising thoroughbreds after administration of phenylbutazone. Manohar M, et al. **Am J Vet Res** 1996 Sep;57(9):1354–8

Effect of furosemide and subsequent intravenous fluid administration on right atrial pressure of splenectomized horses. Rivas LJ, et al. **Am J Vet Res** 1997 Jun;58(6):632–5

Cardiopulmonary and anesthetic effects of propofol in wild turkeys. Schumacher J, et al. **Am J Vet Res** 1997 Sep; 58(9):1014–7

Systemic vascular effects of isoflurane versus propofol anesthesia in dogs [see comments] Deryck YL, et al. **Anesth Analg** 1996 Nov;83(5):958–64. Comment in: Anesth Analg 1997 Apr;84(4):940–1.

Intrathecal sufentanil for labor analgesia: do sensory changes predict better analgesia and greater hypotension? Riley ET, et al. **Anesth Analg** 1997 Feb;84(2):346–51

Simulation of an epidural test dose with intravenous isoproterenol in isoflurane-anesthetized adults. Tanaka M. **Anesth Analg** 1997 Sep;85(3):639–43

Comparative effects of hypotension due to isoflurane, nitroglycerin, and adenosine on subendocardial microcirculation: observation of the in situ beating swine heart under critical stenosis. Fujita Y, et al. **Anesthesiology** 1997 Aug;87(2):343–53

The effect of clonidine on cerebral blood flow velocity, carbon dioxide cerebral vasoreactivity, and response to increased arterial pressure in human volunteers. Lee HW, et al. **Anesthesiology** 1997 Sep;87(3):553–8

Dietary calcium and blood pressure [letter; comment] Bucher HC, et al. **Ann Intern Med** 1997 Mar 15;126(6):492; discussion 492–3. Comment on: Ann Intern Med 1996 May 1;124(9):825–31.

Dietary calcium and blood pressure [letter; comment] Cher DJ. **Ann Intern Med** 1997 Mar 15;126(6):492; discussion 492–3. Comment on: Ann Intern Med 1996 May 1;124(9):825–31.

Analysis of cardiovascular responses to PACAP-27, PACAP-38, and vasoactive intestinal polypeptide. Champion HC, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:429–41; discussion 442

Analysis of blood pressure rhythms for drug efficacy evaluation. Germanò G, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:254–62

Effects of timing of salt intake to 24-hour blood pressure and its circadian rhythm. Itoh K, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:324–5

Drug effects on BP rhythm in secondary hypertension. Middeke M. **Ann N Y Acad Sci** 1996 Aug 15;783:270–7 (29 ref.)

Drug effects on blood pressure rhythms in essential hypertension. Rosenthal T. **Ann N Y Acad Sci** 1996 Aug 15;783:263–9 (32 ref.)

Nifedipine gastrointestinal therapeutic system versus nifedipine coat-core: comparison of efficacy via 24-hour ambulatory blood pressure monitoring. Defina LF, et al. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):819–22

Regional perfusion abnormalities with phenylephrine during normothermic bypass. O'Dwyer C, et al. **Ann Thorac Surg** 1997 Mar;63(3):728–35

Contribution of hemodynamic variables to the lowering of blood pressure by substance P in the anesthetized rat.

Hancock JC, et al. **Arch Int Pharmacodyn Ther** 1995 Nov-Dec;330(3):288-96

Tachyphylaxis and sensitization to nicotine-induced tachycardiac and pressor effects after nicotine infusions. Cruz SL, et al. **Arch Med Res** 1997 Summer;28(2):189-94

Salt intake and blood pressure in rural and metropolitan Mexico. Sánchez-Castillo CP, et al. **Arch Med Res** 1996 Winter;27(4):559-66

Influence of 5-hydroxytryptamine on the pressor responses induced by norepinephrine and electrical sympathetic stimulation in the pithed rat. Terrón JA, et al. **Arch Med Res** 1996 Autumn;27(3):291-7

Effects of parathyroidectomy and calcium supplementation on the pressor response to angiotensin II in conscious rats. Maeda T, et al. **Artery** 1996;22(3):125-39

N-acetyl cysteine attenuates ethanol induced hypertension in rats. Vasdev S, et al. **Artery** 1995;21(6):312-6

Effects of highly purified eicosapentaenoic acid on vascular reactivity to angiotensin II and norepinephrine in pregnant rabbits. Yoshimura T, et al. **Artery** 1997;22(5):242-50

Effect of nitric oxide on oxygenation and hemodynamics in infants after cardiac surgery. Sadao K, et al. **Artif Organs** 1997 Jan;21(1):14-6

Hypotensive effects of the angiotensin II antagonist telmisartan in conscious chronically-instrumented transgenic rats. van Meel JC, et al. **Arzneimittelforschung** 1996 Aug;46(8):755-9

[Tyr1]-nociceptin, a novel nociceptin analog, decreases systemic arterial pressure by a naloxone-insensitive mechanism in the rat. Champion HC, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):309-12

The endogenous mu-opioid receptor agonists endomorphins 1 and 2 have novel hypotensive activity in the rabbit. Champion HC, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):567-70

The effects of morphine on the relationship between fetal EEG, breathing and blood pressure signals using fast wavelet transform. Akay M, et al. **Biol Cybern** 1996 Apr; 74(4):367-72

Impact on blood pressure and intestinal perfusion of dobutamine or dopamine in hypotensive preterm infants. Hentschel R, et al. **Biol Neonate** 1995;68(5):318-24

Comparison of the sympathetic nervous system activity between spontaneously hypertensive and Wistar-Kyoto rats to respond to blood pressure reduction. Prados P, et al. **Biol Pharm Bull** 1997 Apr;20(4):341-4

Antithrombin III prevents blood pressure elevation and proteinuria induced by high salt intake in pregnant stroke-prone spontaneously hypertensive rats. Shinyama H, et al. **Biol Pharm Bull** 1996 Jun;19(6):819-23

Effect of acute tryptophan depletion on behavioral, cardiovascular, and hormonal sensitivity to cholecystokinin-tetrapeptide challenge in healthy volunteers. Koszycki D, et al. **Biol Psychiatry** 1996 Oct 1;40(7):648-55

Pharmacokinetic-pharmacodynamic modelling for captopril in healthy anaesthetized piglets. Pereira CM, et al. **Biopharm Drug Dispos** 1996 Jul;17(5):365-72

Effect of angiotensin converting enzyme inhibition [Cilazapril] on blood pressure recording in hypertensive obstructive sleep apneic patients. Grote L, et al. **Blood Press** 1997 Jul;6(4):235-41

Alcohol consumption and blood pressure in recently hospitalised patients. Howes JB, et al. **Blood Press** 1997 Mar;6(2):109-11

Circulating kallikreins during sodium chloride infusion in normal and hypertensive humans. Ohman KP, et al. **Blood Press** 1997 May;6(3):154-60

Short term and long term effects of alcohol on blood pressure, cardiovascular risk and all cause mortality. Sleight P. **Blood Press** 1996 Jul;5(4):201-5 (24 ref.)

Delayed increase in blood pressure induced by spontaneously hypertensive rat plasma after high sodium intake. Tikkanen I, et al. **Blood Press** 1997 May;6(3):188-91

Felodipine or hydrochlorothiazide/triamterene for treatment of hypertension in the elderly: effects on blood pressure, hypertensive heart disease, metabolic and hormonal parameters. Trenkwalder P, et al. **Blood Press** 1996 May; 5(3):154-63

Genotype of cytochrome P450 2E1 and alcohol-related blood pressure elevation in Japanese men. Yamada Y, et al. **Blood Press** 1997 Mar;6(2):112-6

Effect of central muscarine receptor blockade with DKJ-21 on the blood pressure and heart rate in stress-induced hypertensive rats. Zhu DN, et al. **Blood Press** 1996 May; 5(3):170-7

Antihypertensive efficacy of the angiotensin II AT1-receptor antagonist losartan: results of a randomized, double-blind, placebo-controlled, parallel-group trial using 24-hour blood pressure monitoring. Ambulatory Blood Pressure Monitoring Study Group. Byyny RL. **Blood Press Suppl** 1996;2:71-7

Anti-hypertensive effect of manidipine: 24 hours monitoring evaluation and Doppler-echocardiographic remarks. Celentano A, et al. **Blood Press Suppl** 1996;5:29-35

Evaluation by 24-hour ambulatory blood pressure monitoring of efficacy of manidipine hydrochloride 10, 20 or 40 mg once daily as compared to placebo in treating mild to moderate essential hypertension: a double-blind, randomized, parallel group, placebo-controlled study. Fogari R, et al. **Blood Press Suppl** 1996;5:16-23

Ambulatory blood pressure monitoring in the ELSA study. European Lacidipine Study on Atherosclerosis. Mancia G, et al. **Blood Press Suppl** 1996;4:36-8

Cardiovascular effects of an intubating dose of rocuronium 0.6 mg kg-1 in anaesthetized patients, paralysed with vecuronium. Wierda JM, et al. **Br J Anaesth** 1997 May; 78(5):586-7

The acute cardiovascular actions of intravenous thyrotrophin releasing hormone (TRH) in man are mediated by non-catecholaminergic mechanisms. Bouloux PM, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):225-32

The pharmacokinetics and effects on blood pressure of multiple doses of the novel anti-migraine drug zolmitriptan (311C90) in healthy volunteers. Dixon R, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):273-81

The acute effects of inhaled salbutamol on the beat-to-beat variability of heart rate and blood pressure assessed by spectral analysis. Jartti T, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):421-8

The haemodynamic effects of GR 32191, a thromboxane A2 receptor antagonist, in patients with renal artery stenosis and hypertension. Lyons D, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):271-3

Blood pressure and fetal heart rate changes with patient-controlled combined spinal epidural analgesia while ambulating in labour. al-Mufti R, et al. **Br J Obstet Gynaecol** 1997 May;104(5):554-8

The cardiovascular and renal functional responses to the 5-HT1A receptor agonist flesinoxan in two rat models of hypertension. Chamienia AL, et al. **Br J Pharmacol** 1996 Aug;118(8):1891-8

Structure activity studies of mast cell activation and hypotension induced by neuropeptide Y (NPY), centrally truncated and C-terminal NPY analogues. Cross LJ, et al. **Br J Pharmacol** 1996 Jan;117(2):325-32

Effects of calcium antagonists on endothelin-1-induced myocardial ischaemia and oedema in the rat. Filep JG, et al. **Br J Pharmacol** 1996 Jun;118(4):893-900

The mechanism of acidic pH-induced contraction in aortae from SHR and WKY rats enhanced by increasing blood pressure. Furukawa K, et al. **Br J Pharmacol** 1996 Jun; 118(3):485-92

Contribution of the renin-angiotensin system to short-term blood pressure variability during blockade of nitric oxide synthesis in the rat. Gouédard O, et al. **Br J Pharmacol** 1996 Nov;119(6):1085-92

The role of endogenous bradykinin in blood pressure homeostasis in spontaneously hypertensive rats. Holte HR, et al. **Br J Pharmacol** 1996 Aug;118(8):1925-30

Evaluation of the pharmacological selectivity profile of alpha 1 adrenoceptor antagonists at prostatic alpha 1 adrenoceptors: binding, functional and in vivo studies. Kenny BA, et al. **Br J Pharmacol** 1996 Jun;118(4):871-8

Intranasal administration of neuropeptide Y in man: systemic absorption and functional effects. Lacroix JS, et al. **Br J Pharmacol** 1996 Aug;118(8):2079-84

The vasoconstrictor effects of L-NAME, a nitric oxide synthase inhibitor, in pregnant rabbits. Losonczy G, et al. **Br J Pharmacol** 1996 Jun;118(4):1012-8

Mediation of the positive chronotropic effect of CGP 12177 and cyanopindolol in the pithed rat by atypical beta-adrenoceptors, different from beta 3-adrenoceptors. Malinowska B, et al. **Br J Pharmacol** 1996 Mar;117(5):943-9

Effect of intracerebroventricular and intravenous administration of nitric oxide donors on blood pressure and heart rate in anaesthetized rats. Nurminen ML, et al. **Br J Pharmacol** 1996 Dec;119(7):1422-6

Effect of chronic ETA-selective endothelin receptor antagonism on blood pressure in experimental and genetic hypertension in rats. Schiffrin EL, et al. **Br J Pharmacol** 1997 Jul;121(5):935-40

Role of 5-ht7 receptors in the long-lasting hypotensive response induced by 5-hydroxytryptamine in the rat. Terrón JA. **Br J Pharmacol** 1997 Jun;121(3):563-71

Bosentan-improved cardiopulmonary vascular performance and increased plasma levels of endothelin-1 in porcine endotoxin shock. Weitzberg E, et al. **Br J Pharmacol** 1996 Jun;118(3):617-26

Functional characterization of adenosine receptors in the nucleus tractus solitarius mediating hypotensive responses in the rat. White PJ, et al. **Br J Pharmacol** 1996 Jan; 117(2):305-8

Substance P analogues potentiate the pressor response to microinjection of L-glutamate into laminas I and II of the cat dorsal horn. Beyaert CA, et al. **Brain Res** 1997 Jun 6;759(1):175-9

NMDA receptor antagonist blocks the bradycardic but not the pressor response to L-glutamate microinjected into the nucleus tractus solitarius (NTS) of unanesthetized rats. Colombari E, et al. **Brain Res** 1997 Feb 28;749(2):209-13

Stimulation of the rat mesolimbic dopaminergic system produces a pressor response which is mediated by dopamine D-1 and D-2 receptor activation and the release of vasopressin. Cornish JL, et al. **Brain Res** 1995 Dec 1; 701(1-2):28-38

Cardiovascular effects produced by microinjection of angiotensins and angiotensin antagonists into the ventrolateral medulla of freely moving rats. Fontes MA, et al. **Brain Res** 1997 Mar 7;750(1-2):305-10

Different effects of omeprazole and Sch 28080 on canine cerebrospinal fluid production. Javaneri S, et al. **Brain Res** 1997 Apr 18;754(1-2):321-4

Cardiovascular effects of nitric oxide in the rostral ventrolateral medulla of rats. Kagiyama S, et al. **Brain Res** 1997 May 16;757(1):155-8

Morphine blocks the bradycardia associated with severe hemorrhage in the anesthetized rat. Ohnishi M, et al. **Brain Res** 1997 Jul 18;763(1):39-46

Enhancement of central pressor effect of AVP in SHR and WKY rats by intracranial N(G)-nitro-L-arginine. Paczwa P, et al. **Brain Res** 1997 Feb 14;748(1-2):51-61

Effect of microinjection of muscimol into the dorsomedial or paraventricular hypothalamic nucleus on air stress-induced neuroendocrine and cardiovascular changes in rats. Stotz-Potter EH, et al. **Brain Res** 1996 Dec 2; 742(1-2):219-24

Effects of intravenous phenylephrine on blood pressure, nociception, and neural activity in the rostral ventral medulla in rats. Thurston CL, et al. **Brain Res** 1996 Apr 22;717(1-2):81-90

Excitotoxic lesions of the ventral anteroventral third ventricle and pressor responses to central sodium, ouabain and angiotensin II. Veerasingham SJ, et al. **Brain Res** 1997 Feb 21;749(1):157-60

Microinfusion of aminopeptidase M into the paraventricular nucleus of the hypothalamus in normotensive and hypertensive rats. Batt CM, et al. **Brain Res Bull** 1996; 39(4):235-40

Cholinergic mechanisms responsible for blood pressure regulation on sympathoexcitatory neurons in the rostral ventrolateral medulla of the rat. Kubo T, et al. **Brain Res Bull** 1997;42(3):199-204

Effect of nifedipine on arterial pressure lability of sino-aortic deafferentated rats. Machado BH, et al. **Braz J Med Biol Res** 1996 Jan;29(1):47-51

A crude extract of Stevia rebaudiana increases the renal plasma flow of normal and hypertensive rats. Melis MS. **Braz J Med Biol Res** 1996 May;29(5):669-75

The hypotensive actions of osteogenic and nonosteogenic parathyroid hormone fragments. Whitfield JF, et al. **Calcif Tissue Int** 1997 Mar;60(3):302-8

Prostaglandin E1 attenuates the hypertensive response to tracheal extubation. Nishina K, et al. **Can J Anaesth** 1996 Jul;43(7):678-83

Diltiazem and vecuronium: neuromuscular and cardiovascular effects [letter] Saitoh Y, et al. **Can J Anaesth** 1997 Jan;44(1):99

A dose-response study of perindopril in hypertension: effects on blood pressure 6 and 24 h after dosing. Perindopril Multicentre Dose-Response Study Group. Myers MG. **Can J Cardiol** 1996 Nov;12(11):1191-6

Effect of prolonged catecholamine infusion on heart rate, blood pressure, breathing, and growth in fetal sheep. Bocking AD, et al. **Can J Physiol Pharmacol** 1995 Dec; 73(12):1750-8

Effects of chronic blockade of angiotensin II receptor on the maintenance of hypertension and vascular changes in spontaneously hypertensive rats. Gillies LK, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1061-9

In vitro and in vivo characterization of bradykinin B2 receptors in the rabbit and the guinea pig. Gobeil F, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):137-44

Cardiovascular responses to beta-blockade and 5 degrees C cold air stress. Headley SA, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):112-5

An inpatient trial of the safety and efficacy of losartan compared with placebo and enalapril in patients with essential hypertension. Byyny RL, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):313-9

Left ventricular diastolic function during adrenergic stress in essential hypertension: acute and chronic effects of ACE inhibition. Covi G, et al. **Cardiovasc Drugs Ther** 1996 Jul; 10(3):321-9

Oxygenation improvement with nitric oxide in right-to-left shunt without significant effects on pulmonary arterial pressure. De Backer D, et al. **Chest** 1996 Nov;110(5):1361-3

Re-evaluation of the mechanism and treatment of angina decubitus. Chen J, et al. **Chin Med Sci J** 1996 Mar; 11(1):8-12

The central distribution of adrenomedullin and its effects on blood pressure and heart rate in rats. Wei Y, et al. **Chin Med Sci J** 1996 Mar;11(1):1-7

Administration-time-dependent effects of diltiazem on the 24-hour blood pressure profile of essential hypertension patients. Kohno I, et al. **Chronobiol Int** 1997 Jan;14(1):71-84

Oral contraceptives alter circadian rhythm parameters of cortisol, melatonin, blood pressure, heart rate, skin blood flow, transepidermal water loss, and skin amino acids of healthy young women. Reinberg AE, et al. **Chronobiol Int** 1996 Aug;13(3):199-211

Effect of quinapril therapy on blood pressure and serotonin change in patients with mild to moderate hypertension. Huang JL, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov;58(5):329-34

Cardiovascular effects of injection of argipressin into lateral septal nuclei in rats. Gao L, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):49-52

Effects of ONO-1078, a leukotriene antagonist, on cardiovascular responses induced by vagal stimulation, capsaicin, and substance P in guinea pigs. Wei EQ, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov;16(6):485-8

'Cross talk' between opioid peptide and adrenergic receptor signaling in isolated rat heart. Pepe S, et al. **Circulation** 1997 Apr 15;95(8):2122-9

Reliability of blood pressure determination with the Finapres

with altered physiological states or pharmacodynamic conditions. McAuley D, et al. **Clin Auton Res** 1997 Aug; 7(4):179–84

Amyotrophic lateral sclerosis with hypertensive attacks: blood pressure changes in response to drug administration. Shimizu T, et al. **Clin Auton Res** 1996 Aug;6(4):241–4

Effects of JTV–506, a new K+ channel activator, on airway smooth muscle contraction and systemic blood pressure. Ando T, et al. **Clin Exp Allergy** 1997 Jun;27(6):705–13

Transdermal clonidine therapy and blood pressure nocturnal fall in mild hypertensive male subjects. Guagnano MT, et al. **Clin Exp Hypertens** 1997 Apr;19(3):331–41

Depletion of resistance vessel polyamines attenuates angiotensin II induced blood pressure rise in rats. Ibrahim J, et al. **Clin Exp Hypertens** 1996 Aug;18(6):811–30

Uremia enhances the blood pressure response to erythropoietin. Lacasse–M S, et al. **Clin Exp Hypertens** 1997 May;19(4):389–401

Evidence against a central pressor mechanism for adrenocortical steroid hypertension in sheep. Tresham JJ, et al. **Clin Exp Hypertens** 1996 Aug;18(6):831–49

Attenuated blood pressure responsiveness during post–exercise hypotension. VanNess JM, et al. **Clin Exp Hypertens** 1996 Oct;18(7):891–900

Blood pressure lowering for the prevention of cognitive decline in patients with cerebrovascular disease. PROGRESS Management Committee. Perindopril Protection Against Recurrent Stroke Study. Whitlock G, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):843–55

Serum gamma–glutamyl transferase levels and blood pressure falls after alcohol moderation. Yamada Y, et al. **Clin Exp Hypertens** 1997 Apr;19(3):249–68

Angiotensin II activates pressor and depressor sites of the pontomedulla that react to glutamate. Chai CY, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):415–23

Involvement of non–NMDA and NMDA receptors in glutamate–induced pressor or depressor responses of the pons and medulla. Chen SY, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):46–56

Effect of arterial chemoreceptor stimulation with almitrine bismesylate on plasma renin activity, aldosterone, ACTH and cortisol in anaesthetized, artificially ventilated cats. Honig A, et al. **Clin Exp Pharmacol Physiol** 1996 Feb; 23(2):106–10

Relationship of cigarette smoking to blood pressure and serum lipids and lipoproteins in men. Imamura H, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):397–402

Relationship between nifedipine sensitivity of aortae and blood pressure of stroke–prone spontaneously hypertensive rats. Jiang GC, et al. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):218–21

Nitric oxide synthase inhibition with N omega–nitro–L–arginine methyl ester affects blood pressure and cardiovascular structure in the genetically hypertensive rat strain. Ledingham JM, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):433–5

Slow pressor effect of angiotensin II in normotensive rats with renal artery stenosis. Melaragno MG, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):140–4

Peripheral vasculature in essential hypertension. Mulvany MJ. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S6–10

Blood pressure lowering in patients with cerebrovascular disease: results of the PROGRESS (Perindopril Protection Against Recurrent Stroke Study) pilot phase. Neal B, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):444–6

Long–term effects of high calorie sucrose–enriched diet and streptozotocin–induced diabetes on insulin resistance in spontaneously hypertensive rats. Sato T, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):669–74

Effects of DC–015, a novel potent and selective alpha 1–adrenoceptor antagonist on plasma lipid and vascular reactivity in hyperlipidaemic rats. Sheu JR, et al. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):207–13

Effects of losartan on the cardiovascular system, renal haemodynamics and function and lung liquid flow in fetal sheep. Stevenson KM, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):125–33

Chronic intrarenal infusion of low–dose angiotensin II in dogs increases arterial pressure without impairment of renal function. Stevenson KM, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):439–41

Acute effects of oral glibenclamide on blood pressure and forearm vascular resistance in diabetics. Sundaresan P, et al. **Clin Exp Pharmacol Physiol** 1997 May;24(5):333–5

Increasing resting vascular tone in conscious dogs does not alter the mesenteric vasoconstrictor responses to ANP. Woods RL, et al. **Clin Exp Pharmacol Physiol** 1996 Jan; 23(1):95–7

Changes in angiotensin II metabolism contribute to the increased pressor response to angiotensin after chronic treatment with L–NAME in the spontaneously hypertensive rat. Yang Y, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):611–3

Correlation analysis of blood pressure and platelet aggregation/vascular reactivity in SHRSP, WKY, F1 and backcross generations. Hamano M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S107–8

Baroreceptor function is restored by antihypertensive therapy through lowering of blood pressure in adult SHR. Ichikawa M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S67–9

Effects of recombinant human erythropoietin on blood pressure and renal function in SHR with chronic renal failure. Kohzuki M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S165–6

Effect of felodipine on blood pressure, body sodium, plasma renin activity and plasma aldosterone in hypertensive and normotensive rats. Ledingham JM, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S323–5

Effect of felodipine treatment and withdrawal on blood pressure and cardiovascular structure in New Zealand genetically hypertensive rats. Ledingham JM, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S326–8

HMG–CoA reductase inhibitor affects blood pressure and vascular reactivity. Li N, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S316–7

Effect of chronic treatment with ME3221 on blood pressure and mortality in aged stroke–prone spontaneously hypertensive rats. Nagura J, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S363–5

Role of cerebral ATP–sensitive K+ channels in arterial pressure regulation during acute cerebral ischaemia in SHR and WKY rats. Nishimura M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S70–2

Effects of gamma–linolenic and eicosapentaenoic acids on blood pressure in SHR. Sasaki S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S306–7

Altered basal release and pressor effect of L–DOPA in the rostral ventrolateral medulla of spontaneously hypertensive rats. Yue JL, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S43–5

Effects of moxonidine and clonidine on renal function and blood pressure in anesthetized rats. Hohage H, et al. **Clin Nephrol** 1997 May;47(5):316–24

Influence of cyclosporine A and FK506 on 24 h blood pressure monitoring in kidney transplant recipients. Hohage H, et al. **Clin Nephrol** 1996 May;45(5):342–4

Depressor effect of L–arginine in normotensive patients on regular dialysis treatment [letter] Nakayama M, et al. **Clin Nephrol** 1996 Oct;46(4):286

Effects of different chromium compounds on blood pressure and lipid peroxidation in spontaneously hypertensive rats. Preuss HG, et al. **Clin Nephrol** 1997 May;47(5):325–30

Dietary salt restriction increases vascular insulin resistance. Feldman RD, et al. **Clin Pharmacol Ther** 1996 Oct; 60(4):444–51

Concentration–related pharmacodynamic effects of thioridazine and its metabolites in humans. Hartigan–Go K, et al. **Clin Pharmacol Ther** 1996 Nov;60(5):543–53

The effect of valsartan on the angiotensin II pressor response in healthy normotensive male subjects. Morgan JM, et al. **Clin Pharmacol Ther** 1997 Jan;61(1):35–44

Effects of low–dose transdermal scopolamine on autonomic cardiovascular control in healthy young subjects. Vesalainen RK, et al. **Clin Physiol** 1997 Mar;17(2):135–48

Combination oral antioxidant supplementation reduces blood pressure. Galley HF, et al. **Clin Sci (Colch)** 1997 Apr; 92(4):361–5

Differential effects of nitric oxide synthase modulation on porcine systemic and pulmonary circulation in vivo. Dahm P, et al. **Crit Care Med** 1997 Feb;25(2):280–5

L–canavanine, an inhibitor of inducible nitric oxide synthase, improves venous return in endotoxemic rats. Fishman D, et al. **Crit Care Med** 1997 Mar;25(3):469–75

Treatment of renal failure and blood pressure. Silverman M, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):237–42 (55 ref.)

Evaluation of the efficacy and tolerability of nitrendipine in reducing both pressure and left ventricular mass in hypertensive type 2 diabetic patients. Scognamiglio R, et al. **Diabetes Care** 1997 Aug;20(8):1290–2

Comparative effects of glibenclamide and metformin on ambulatory blood pressure and cardiovascular reactivity in NIDDM. Sundaresan P, et al. **Diabetes Care** 1997 May; 20(5):692–7

Interaction of sulphonylurea derivatives with vascular ATP–sensitive potassium channels in humans [published erratum appears in Diabetologia 1996 Nov;39(11):1414] Bijlstra PJ, et al. **Diabetologia** 1996 Sep;39(9):1083–90

Rat amylin mediates a pressor response in the anaesthetised rat: implications for the association between hypertension and diabetes mellitus. Haynes JM, et al. **Diabetologia** 1997 Mar;40(3):256–61

The pressor response induced by repeated injections of neostigmine into the central nervous system is desensitized in adrenalectomized, but not in intact rats. Uemura K, et al. **Endocr J** 1997 Apr;44(2):219–25

Dipyridamole slows the rate of isovolumic pressure fall in patients with normal coronary arteries. Nitenberg A, et al. **Eur Heart J** 1995 Nov;16(11):1721–5

Body fluid homeostasis and cardiovascular adjustments during submaximal exercise: influence of chewing coca leaves. Spielvogel H, et al. **Eur J Appl Physiol** 1997; 75(5):400–6

Comparison of dose requirement, serum erythropoietin and blood pressure following intravenous and subcutaneous erythropoietin treatment of dialysis patients. IV and SC erythropoietin. Jensen JD, et al. **Eur J Clin Pharmacol** 1996; 50(3):171–7

Evaluation of the antihypertensive efficacy and tolerability of moexipril, a new ACE inhibitor, compared to hydrochlorothiazide in elderly patients. Persson B, et al. **Eur J Clin Pharmacol** 1996;50(4):259–64

Dose–finding study of imidapril, a novel angiotensin converting enzyme inhibitor, in patients with stable chronic heart failure. Pinto YM, et al. **Eur J Clin Pharmacol** 1996; 50(4):265–8

Digital pulse plethysmography as a non–invasive method for predicting drug–induced changes in left ventricular preload. Stengele E, et al. **Eur J Clin Pharmacol** 1996; 50(4):279–82

Effect of ovariectomy and steroid hormone replacement on the recovery of arterial blood pressure following haemorrhage in anaesthetized Brattleboro rats. Morrissey SE, et al. **Eur J Endocrinol** 1997 Mar;136(3):330–7

Kinins are implicated of the hypotensive effect of acidic fibroblast growth factor. Saenz de Tejada I, et al. **Eur J Med Res** 1997 Jul 28;2(7):302–4

Centrally mediated hemodynamic effects of cocaine in rabbits: the role of local anesthetic actions and biogenic amine re–uptake blockage. Bernards CM. **Eur J Pharmacol** 1996 Jun 20;307(1):33–9

Amlodipine, a Ca2+ channel antagonist, modifies cerebral blood flow autoregulation in hypertensive rats. Cai H, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):103–6

Effect of rilmenidine on arterial pressure and urinary output in the spontaneously hypertensive rat. Cechetto DF, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):47–55

Peripheral effects of three novel non–peptide tachykinin NK1 receptor antagonists in the anaesthetized rat. Cellier E, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):377–85

The effect of Phoneutria nigriventer (armed spider) venom on arterial blood pressure of anaesthetised rats. Costa SK, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):113–20

Cardiovascular responses induced by injection of endothelin–1 into the superior colliculus of rats. D'Amico M, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):245–7

Zaprinast, but not dipyridamole, reverses hemodynamic tolerance to nitroglycerin in vivo. De Garavilla L, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):89–96

Investigation of the subtype of alpha 2–adrenoceptor mediating pressor responses in the pithed rat. Gavin K, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):81–7

Elevation in arterial blood pressure following the development of tachyphylaxis to peroxynitrite. Kooy NW, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):R5–7

Cardiovascular responses mediated by two types of endothelin ET(B) receptor in spontaneously hypertensive and Wistar–Kyoto rats. Kuwahara M, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):55–63

Alterations in alpha subunit expression of cardiac Na+,K+–ATPase in spontaneously hypertensive rats: effect of antihypertensive therapy. Liu X, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):151–6

Pharmacological evidence of a role for platelet activating factor as a modulator of vasomotor tone and blood pressure. Lopes–Martins R, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):287–94

Receptor subtypes mediating spinal cardiovascular effects of angiotensin II in rat using losartan and PD 123319. Park PD, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):139–45

Actions of D–amino acid–substituted analogues of des–Asp–angiotensin I on the central pressor action of angiotensin III. Radhakrishnan R, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):337–9

U50,488H–induced pressor effect in the ovine foetus is mediated by sympathetic activation and vasopressin. Szeto HH, et al. **Eur J Pharmacol** 1996 Aug 8;309(2):183–7

The role of brain acetylcholine in GABAA receptor antagonist–induced blood–pressure changes in rat. Tellioğlu T, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2–3):301–7

Hemodynamic effects and histamine release elicited by the selective adenosine A3 receptor agonist 2–Cl–IB–MECA in conscious rats. Van Schaick EA, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):311–4

FR167653, a dual inhibitor of interleukin–1 and tumor necrosis factor–alpha, ameliorates endotoxin–induced shock. Yamamoto N, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):169–74

Evidence from its cardiovascular effects that 7–nitroindazole may inhibit endothelial nitric oxide synthase in vivo. Zagvazdin Y, et al. **Eur J Pharmacol** 1996 May 6; 303(1–2):61–9

Vascular alpha 1D–adrenoceptors have a role in the pressor response to phenylephrine in the pithed rat. Zhou L, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):173–6

Cardiovascular and pancreatic endocrine responses to glucagon–like peptide–1(7–36) amide in the conscious calf. Edwards CM, et al. **Exp Physiol** 1997 Jul;82(4):709–16

Effect of nitrite on blood pressure in anaesthetized and free–moving rats. Vleeming W, et al. **Food Chem Toxicol** 1997 Jun;35(6):615–9

Characterization of the high sensitivity of rabbits to the effects of TCV–116, an angiotensin II receptor antagonist. Sato K, et al. **Fundam Appl Toxicol** 1997 Jan;35(1):49–54

Effects of pentobarbital and etomidate on plasma catecholamine levels and spectral analysis of blood pressure and heart rate in dogs. Mazerolles M, et al. **Fundam Clin Pharmacol** 1996;10(3):298–303

Changes in plasma arginine vasotocin (AVT) concentration and dorsal aortic blood pressure following AVT injection in the teleost Platichthys flesus. Warne JM, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):358–64

Effect of Azadirachta indica hydroalcoholic leaf extract on the cardiovascular system. Chattopadhyay RR. **Gen Pharmacol** 1997 Mar;28(3):449–51

Physostigmine and modulators of nitric oxide system on the mean arterial pressure of the spontaneously hypertensive rat. Prostran MS, et al. **Gen Pharmacol** 1997 Jan; 28(1):105–12

Effects of thyrotropin-releasing hormone and its analogue, NS-3, on blood pressure, heart rate, and serum catecholamine levels in rats. Shinozuka K, et al. **Gen Pharmacol** 1997 Feb;28(2):209–14

Central effects of opioid agonists and naloxone on blood pressure and heart rate in normotensive and hypertensive rats. Sun SY, et al. **Gen Pharmacol** 1996 Oct;27(7):1187–94

Pravastatin affects blood pressure and vascular reactivity. Li N, et al. **Heart Vessels** 1996;11(2):64–8

Effects of varying doses of spironolactone without and with nitrates on portal vein pressure and kidney function in partial portal vein ligated rats. Van de Casteele M, et al. **Hepatology** 1996 Dec;24(6):1492–6

Central IGF-1 decreases systemic blood pressure and increases blood flow in selective vascular beds. Hu Y, et al. **Horm Metab Res** 1996 May;28(5):211–4

Changes in the arterial blood pressure, heart rate and normal ECG parameters of rat after envenomation with Egyptian cobra (Naja haje) venom. Omran MA, et al. **Hum Exp Toxicol** 1997 Jun;16(6):327–33

Cardiovascular effects of beta-carbolines in conscious rats. Wible JH, et al. **Hypertens Res** 1996 Sep;19(3):161–70

Angiotensin-(1–7) induces bradykinin-mediated hypotensive responses in anesthetized rats. Abbas A, et al. **Hypertension** 1997 Aug;30(2 Pt 1):217–21

Effect of high salt intake in mutant mice lacking bradykinin-B2 receptors. Alfie ME, et al. **Hypertension** 1997 Jan;29(1 Pt 2):483–7

Additive effects of losartan and enalapril on blood pressure and plasma active renin. Azizi M, et al. **Hypertension** 1997 Feb;29(2):634–40

Dose effects of human renin in rats transgenic for human angiotensinogen. Bohlender J, et al. **Hypertension** 1997 Apr;29(4):1031–8

Catecholamine release mediates pressor effects of adrenomedullin-(15–22) in the rat. Champion HC, et al. **Hypertension** 1996 Dec;28(6):1041–6

Gonadal hormones modulate deoxycorticosterone-salt hypertension in male and female rats. Crofton JT, et al. **Hypertension** 1997 Jan;29(1 Pt 2):494–9

Role of nitric oxide in modulating the long-term renal and hypertensive actions of norepinephrine. Granger J, et al. **Hypertension** 1997 Jan;29(1 Pt 2):205–9

Neural circulatory responses to carbon monoxide in healthy humans. Hausberg M, et al. **Hypertension** 1997 May; 29(5):1114–8

Sympathetic and cardiorenal actions of leptin. Haynes WG, et al. **Hypertension** 1997 Sep;30(3 Pt 2):619–23 (45 ref.)

Time-dependent effects of low-dose aspirin administration on blood pressure in pregnant women. Hermida RC, et al. **Hypertension** 1997 Sep;30(3 Pt 2):589–95

Sympathoexcitatory effect of hypothalamic/hypophysary inhibitory factor in rats. Huang BS, et al. **Hypertension** 1997 Jun;29(6):1291–5

Role of renal nerves in afferent arteriolar reactivity in angiotensin-induced hypertension. Ichihara A, et al. **Hypertension** 1997 Jan;29(1 Pt 2):442–9

Thromboxane is required for full expression of angiotensin hypertension in rats. Keen HL, et al. **Hypertension** 1997 Jan;29(1 Pt 2):310–4

Role of substance P in blood pressure regulation in salt-dependent experimental hypertension. Kohlmann O Jr, et al. **Hypertension** 1997 Jan;29(1 Pt 2):506–9

Pressure natriuresis after adrenomedullin in anesthetized spontaneously hypertensive rats. Kurashina T, et al. **Hypertension** 1997 Sep;30(3 Pt 2):660–3

Cardiovascular effects of anandamide in anesthetized and conscious normotensive and hypertensive rats. Lake KD, et al. **Hypertension** 1997 May;29(5):1204–10

Potentiation of the hypotensive effect of bradykinin by short-term infusion of angiotensin-(1–7) in normotensive and hypertensive rats. Lima CV, et al. **Hypertension** 1997 Sep;30(3 Pt 2):542–8

Antisense inhibition of the brain kallikrein-kinin system. Madeddu P, et al. **Hypertension** 1996 Dec;28(6):980–7

Kallikrein-kinin system and blood pressure sensitivity to salt. Madeddu P, et al. **Hypertension** 1997 Jan;29(1 Pt 2):471–7

Effects of central muscarinic-1 receptor stimulation on blood pressure regulation. Medina A, et al. **Hypertension** 1997 Mar;29(3):828–34

Change in pressor responsiveness to angiotensin II as a determinant of blood pressure after unclipping in two-kidney, one clip hypertensive rats. Melaragno MG, et al. **Hypertension** 1996 Oct;28(4):656–62

A vascular modulator, hepatocyte growth factor, is associated with systolic pressure. Nakamura Y, et al. **Hypertension** 1996 Sep;28(3):409–13

Neural mechanism of pressor action of nitric oxide synthase inhibitor in anesthetized monkeys. Okamura T, et al. **Hypertension** 1996 Sep;28(3):341–6

Heart rate and blood pressure variabilities in salt-sensitive hypertension. Piccirillo G, et al. **Hypertension** 1996 Dec; 28(6):944–52

Effects of enalapril, losartan, and verapamil on blood pressure and glucose metabolism in the Cohen-Rosenthal diabetic hypertensive rat. Rosenthal T, et al. **Hypertension** 1997 Jun; 29(6):1260–4

Oral calcium supplementation reduces intraplatelet free calcium concentration and insulin resistance in essential hypertensive patients. Sánchez M, et al. **Hypertension** 1997 Jan;29(1 Pt 2):531–6

Determining the trough-to-peak ratio in parallel-group trials. Systolic Hypertension in Europe (SYST-EUR) Trial Investigators. Staessen JA, et al. **Hypertension** 1997 Feb; 29(2):659–67

Preliminary evidence of linkage of salt sensitivity in black Americans at the beta 2-adrenergic receptor locus. Svetkey LP, et al. **Hypertension** 1997 Apr;29(4):918–22

Mechanism of the hypotensive action of anandamide in anesthetized rats. Varga K, et al. **Hypertension** 1996 Oct; 28(4):682–6

Sodium intake, angiotensin II receptor blockade, and baroreflex function in conscious rats. Xu L, et al. **Hypertension** 1997 Jan;29(1 Pt 2):450–7

Adaptive control of arterial blood pressure with a learning controller based on multilayer neural networks. Chen CT, et al. **IEEE Trans Biomed Eng** 1997 Jul;44(7):601–9

Suboptimal dual adaptive control for blood pressure management. Maitelli AL, et al. **IEEE Trans Biomed Eng** 1997 Jun;44(6):486–92

Pressor action of angiotensin I at the ventrolateral medulla: effect of selective angiotensin blockade. Lima DX, et al. **Immunopharmacology** 1996 Jun;33(1–3):305–7

Blood pressure sensitivity to salt in rats with low urinary kallikrein excretion. Madeddu P, et al. **Immunopharmacology** 1996 Jun;33(1–3):301–4

Preliminary studies on the desensitisation of the blood pressure response to central histamine. Młynarska MS. **Inflamm Res** 1997 Mar;46 Suppl 1:S49–50

Effects of magnesium on blood pressure and intracellular ion levels of Brazilian hypertensive patients. Sanjuliani AF, et al. **Int J Cardiol** 1996 Oct 11;56(2):177–83

The effect of intravenous metoclopramide on blood pressure in normotensive and hypertensive subjects. Blanco M, et al. **Int J Clin Pharmacol Ther** 1996 Sep;34(9):390–2

Differential systemic and pulmonary hemodynamic effects of L-arginine in patients with coronary artery disease or primary pulmonary hypertension. Böger RH, et al. **Int J Clin Pharmacol Ther** 1996 Aug;34(8):323–8

Metabolic effects of spirapril and atenolol: results from a randomized, long-term study. Hakamäki T, et al. **Int J Clin Pharmacol Ther** 1997 Jun;35(6):227–30

Effect of alacepril on 24-hour blood pressure in elderly hypertensive patients. Kohara K, et al. **Int J Clin Pharmacol Ther** 1996 Sep;34(9):380–3

Use of the vasodilator sodium nitroprusside during local hyperthermia: effects on tumor temperature and tumor response in a rat tumor model. Krossnes BK, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):403–15

Circulatory and diuretic effects of dopexamine infusion in low-birth-weight infants with respiratory failure. Kawczynski P, et al. **Intensive Care Med** 1996 Jan; 22(1):65–70

Acarbose reduces blood pressure in sucrose-induced hypertension in rats. Madar Z, et al. **Isr J Med Sci** 1997 Mar;33(3):153–9

Cardiovascular effects of therapeutic doses of tricyclic antidepressants in children and adolescents. Wilens TE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1491–501 (75 ref.)

Differential activation of cardiac and peripheral sympathetic nervous system by nifedipine: role of pharmacokinetics. Wenzel RR, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1607–14

Effects of diadenosine polyphosphates on renal function and blood pressure in anesthetized Wistar rats. Hohage H, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1216–22

Renal and pressor effects of aminoguanidine in cirrhotic rats with ascites. Ortiz MC, et al. **J Am Soc Nephrol** 1996 Dec; 7(12):2694–9

Central and regional hemodynamic effects during infusion of Big endothelin-1 in healthy humans. Ahlborg G, et al. **J Appl Physiol** 1996 Jun;80(6):1921–7

Phenylbutazone increases right atrial pressure and heart rate of running horses. Mitten LA, et al. **J Appl Physiol** 1996 Jul;81(1):312–7

Hypotensive and hypertensive effects of catecholamines intrathecally injected in anesthetized rats. del Carmen García M, et al. **J Auton Nerv Syst** 1996 Jun 10; 59(1–2):17–26

Central vasopressin is required for the complete development of deoxycorticosterone-salt hypertension in rats with hereditary diabetes insipidus. Liang J, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):33–9

Bezold-Jarisch reflex in myocardial infarcted rats. Meyrelles SS, et al. **J Auton Nerv Syst** 1997 Apr 14;63(3):144–52

Blood-pressure variability is buffered by nitric oxide. Nafz B, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):181–3

Nonuniform sympathetic nerve responses to intravenous hypertonic saline infusion. Weiss ML, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):109–15

Glycine produced pressor responses when microinjected in the pressor areas of pons and medulla in cats. Wu WC, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):1–11

Spectral analysis of intercycle heart fluctuations in the diethyl-ether-anaesthetized or pithed rat treated with l-hyoscyamine. Bernardi M, et al. **J Auton Pharmacol** 1997 Feb;17(1):27–34

Pharmacological characterization of alpha 1-adrenoceptor subtype mediating regulation of arterial pressure and urethral perfusion pressure in the anaesthetized rat. Guilmard C, et al. **J Auton Pharmacol** 1996 Aug; 16(4):197–203

Intracerebroventricular choline reverses hypotension induced by acute chemical sympathectomy. Gürün MS, et al. **J Auton Pharmacol** 1997 Jun;17(3):155–63

McN-A-343 increases renal sympathetic nerve activity and blood pressure by a muscarinic and a non-muscarinic mechanism in the rat. Martin JR. **J Auton Pharmacol** 1996 Oct;16(5):281–92

Cardiovascular effects of intrathecally injected mu, delta and kappa opioid receptor agonists in rabbits. Oğütman C, et al. **J Auton Pharmacol** 1995 Dec;15(6):443–50

Blood pressure effects of hydrochlorothiazide, applied to the rat hypothalamus. Bergmann F, et al. **J Basic Clin Physiol Pharmacol** 1996;7(4):331–9

The effects of physostigmine, L-arginine and NG-nitro-L-arginine methyl ester (L-NAME) on the mean arterial pressure of the rat. Prostran M, et al. **J Basic Clin Physiol Pharmacol** 1994 Apr–Jun;5(2):151–66

The effects of caffeine on ambulatory blood pressure, heart rate, and mood in coffee drinkers. Green PJ, et al. **J Behav Med** 1996 Apr;19(2):111–28

The guanylyl cyclase-deficient mouse defines differential pathways of natriuretic peptide signaling. Lopez MJ, et al. **J Biol Chem** 1997 Sep 12;272(37):23064–8

The effects of carotid sinus nerve blockade on hemodynamic stability after carotid endarterectomy. Gottlieb A, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):67–71

Mechanism and pressor relevance of the short-term cardiovascular and renin excitatory actions of the selective A2A-adenosine receptor agonists. Alberti C, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):320–4

Pressor and hormonal responses to angiotensin I infusion in healthy subjects of different angiotensin-converting enzyme genotypes. Chadwick IG, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):485–9

Effects of clonidine and flesinoxan on blood pressure variability in conscious spontaneously hypertensive rats. Chaouche-Teyara K, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):241–4

Spontaneous changes of heart rate, blood pressure, and ischemia-type ST-segment depressions in patients with hypertension without significant coronary artery disease: beneficial effects of beta-blockade [published erratum appears in J Cardiovasc Pharmacol 1997 Mar;29(3):427] Christ M, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):755–63

Trough-to-peak ratio and circadian blood pressure profile after treatment with once-daily extended-release diltiazem, 240 mg, in patients with mild-to-moderate essential hypertension. Coca A, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):316–22

Hypotensive and reflex bradycardic effects of ketanserin, but not of prazosin, enhanced selectively in aging conscious rats. Davidow LW, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):294–301

Modification of the cardiovascular effects of ephedrine by the reversible monoamine oxidase A-inhibitor moclobemide. Dingemanse J, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):856–61

Circadian variation in blood pressure and heart rate in nonhypertensive congestive heart failure. Giles TD, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):733–40

SC-52458, an orally active angiotensin II-receptor antagonist: inhibition of blood pressure response to angiotensin II challenges and pharmacokinetics in normal volunteers. Hagmann M, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):444–50

Effect of repeated administration of KT3-671, a nonpeptide AT1 receptor antagonist, on diurnal variation in blood pressure, heart rate, and locomotor activity in stroke-prone spontaneously hypertensive rats as determined by radiotelemetry. Kawashima K, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):411–6

Vasomolol: an ultra short-acting and vasorelaxant vanilloid type beta 1-adrenoceptor antagonist. Lin YT, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):149–57

Evidence of increased sympathetic vasomotor drive with shorter acting dihydropyridine calcium channel antagonists in human hypertension: a study using spectral analysis of RR interval and systolic arterial pressure variability. Lucini D, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):676–83

Sympatholysis after neuron-specific, N-type, voltage-sensitive calcium channel blockade: first demonstration of N-channel function in humans. McGuire D, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):400–3

Dose-ranging study of the angiotensin II receptor antagonist irbesartan (SR 47436/BMS-186295) on blood pressure and neurohormonal effects in salt-deplete men. McIntyre M, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):101–6

Second-generation calcium antagonists and ambulatory blood pressure monitoring. Mallion JM, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S17–22

Evidence of systemic neuropeptide Y release after carbachol administration into the posterior hypothalamic nucleus. Martin JR. **J Cardiovasc Pharmacol** 1996 Sep;28(3):447–57

Beta-adrenergic stimulation enhances left ventricular diastolic performance in normal subjects. Nixdorff U, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):476–84

Renal and depressor activity of C-natriuretic peptide in conscious monkeys: effects of enzyme inhibitors. Seymour AA, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):397–401

In vivo pharmacology of dual neutral endopeptidase/angiotensin-converting enzyme inhibitors. Seymour AA, et al. **J Cardiovasc Pharmacol** 1996 Nov; 28(5):672–8

Renal and depressor activities of inhibitors of neutral endopeptidase and angiotensin converting enzyme in monkeys infused with angiotensin II. Seymour AA, et al. **J Cardiovasc Pharmacol** 1996 Nov;28(5):651–8

The increase in blood pressure induced by inhibition of nitric oxide synthase in anesthetized Wistar rats is inversely related to basal blood pressure value. Sorrentino R, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):599–604

Differing early blood pressure and renin-angiotensin system responses to the first dose of angiotensin-converting enzyme inhibitors in congestive heart failure [published erratum appears in J Cardiovasc Pharmacol 1996 Sep;28(3):479] Squire IB, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):657–66

Beneficial action of beraprost sodium, a prostacyclin analog, in stroke-prone rats. Stier CT Jr, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):285–93

Role of nitric oxide in the attenuated pressor responses of pregnant or sodium-deplete sheep. Tresham JJ, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):908–15

From alpha and beta to I1: an overview of sympathetic receptors involved in blood pressure control targets for drug treatment. van Zwieten PA. **J Cardiovasc Pharmacol** 1996;27 Suppl 3:S5–10 (36 ref.)

Effects of antihypertensive drugs on the circadian blood pressure profile. Voogel AJ, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):463–9

Prolonged cardiovascular effects of the N-type Ca2+ channel antagonist omega-conotoxin GVIA in conscious rabbits. Wright CE, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):392–9

Hemodynamic effects of scatter factor in conscious rats. Yang R, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):294–301

Short-term growth hormone (GH) treatment of GH-deficient adults increases body sodium and extracellular water, but not blood pressure. Hoffman DM, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1123–8

Growth hormone treatment of abdominally obese men reduces abdominal fat mass, improves glucose and lipoprotein metabolism, and reduces diastolic blood pressure [see comments] Johannsson G, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):727–34. Comment in: J Clin Endocrinol Metab 1997 Mar;82(3):725–6.

Circulating adrenomedullin does not regulate systemic blood pressure but increases plasma prolactin after intravenous infusion in humans: a pharmacokinetic study. Meeran K, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):95–100

Kallistatin is a potent new vasodilator. Chao J, et al. **J Clin Invest** 1997 Jul 1;100(1):11–7

Nitric oxide (NO) modulates the neurogenic control of blood pressure in rats with chronic renal failure (CRF). Ye S, et al. **J Clin Invest** 1997 Feb 1;99(3):540–8

Pressor response to tyramine after single 24-hour application of a selegiline transdermal system in healthy males. Barrett JS, et al. **J Clin Pharmacol** 1997 Mar;37(3):238–47

Administration of H1 and H2 antagonists for chemoprophylaxis: a double-blind, placebo-controlled study in healthy volunteers. Doenicke A, et al. **J Clin Pharmacol** 1997 Feb;37(2):140–6

Effect of diltiazem on intraarterial blood pressure and heart rate during stress testing in patients with angina: a gender comparison study. Klassen GA, et al. **J Clin Pharmacol** 1997 Apr;37(4):297–303

Gender differences in exercise and recovery blood pressure responses in normal volunteers given diltiazem. Klassen GA, et al. **J Clin Pharmacol** 1995 Dec;35(12):1144–9

Use of beta-adrenergic receptor blockers in blacks. Prisant LM, et al. **J Clin Pharmacol** 1996 Oct;36(10):867–73 (34 ref.)

Pharmacokinetics and cardiovascular effects of ma-huang (Ephedra sinica) in normotensive adults. White LM, et al. **J Clin Pharmacol** 1997 Feb;37(2):116–22

Influence of the ACE inhibitor lisinopril on blood pressure, metabolism, and renal function parameter in hypertensive type II diabetic patients: a postmarketing surveillance study. Hasslacher C. **J Diabetes Complications** 1996 May-Jun;10(3):136–8

Hypertension as a risk factor in non-insulin-dependent diabetes mellitus: how far should blood pressure be reduced? Hasslacher C. **J Diabetes Complications** 1997 Mar-Apr;11(2):90–1 (11 ref.)

The effects of clonidine on blood pressure, catecholamine and growth hormone release in hypogonadal men is preserved and not influenced by testosterone replacement therapy. Del Rio G, et al. **J Endocrinol Invest** 1996 Sep; 19(8):505–10

The pharmacological basis for the use of dried sheep placenta in traditional obstetric practice in Nigeria. Onuaguluchi G, et al. **J Ethnopharmacol** 1996 Oct;54(1):27–36

Cardiovascular effects of ethanolic and aqueous extracts of Pimenta dioica in Sprague-Dawley rats. Suárez A, et al. **J Ethnopharmacol** 1997 Jan;55(2):107–11

Mechanisms of cardiovascular activity of Andrographis paniculata in the anaesthetized rat. Zhang CY, et al. **J Ethnopharmacol** 1997 Apr;56(2):97–101

Blood pressure response to orthostatic and mental challenge in African-American women taking oral contraceptives. McDermott DS, et al. **J Fam Pract** 1997 Sep;45(3):237–42

Ambulatory blood pressure monitoring for evaluation of long-acting beta-blockers in Taiwan. Tseng CD, et al. **J Formos Med Assoc** 1996 Apr;95(4):320–4

Diastolic blood pressure and the risk of primary cardiac arrest among pharmacologically treated hypertensive patients [see comments] Siscovick DS, et al. **J Gen Intern Med** 1996 Jun;11(6):350–6. Comment in: J Gen Intern Med 1996 Jun;11(6):379–80.

Effects of fosinopril on the blood pressure and lipid profile of patients undergoing heart transplantation. Almenar L, et al. **J Heart Lung Transplant** 1997 Apr;16(4):454–9

Effects of isosorbide-5-mononitrate on variceal pressure and systemic and splanchnic haemodynamics in patients with cirrhosis. Escorsell A, et al. **J Hepatol** 1996 Apr;24(4):423–9

Vascular hyporesponsiveness to vasodilators in rats with cirrhosis. Safka V, et al. **J Hepatol** 1997 Feb;26(2):382–6

Blood pressure control of drug treated hypertension in 18 general practices. Aylett M, et al. **J Hum Hypertens** 1996 Aug;10(8):547–50

A multicenter, parallel comparative study of the antihypertensive efficacy of once-daily lisinopril vs enalapril with 24-h ambulatory blood pressure monitoring in essential hypertension. Coca A, et al. **J Hum Hypertens** 1996 Dec;10(12):837–41

Resting blood pressure and cardiovascular reactivity to mental arithmetic in mild hypertensive males supplemented with blackcurrant seed oil. Deferne JL, et al. **J Hum Hypertens** 1996 Aug;10(8):531–7

Effects of antihypertensive therapy on left atrial function. Dernellis JM, et al. **J Hum Hypertens** 1996 Dec; 10(12):789–94

Long-term effects of losartan on blood pressure and left ventricular structure in essential hypertension. Himmelmann A, et al. **J Hum Hypertens** 1996 Nov; 10(11):729–34

Impact of the renin-angiotensin-aldosterone system on blood pressure response to intravenous enalaprilat in patients with hypertensive crises. Hirschl MM, et al. **J Hum Hypertens** 1997 Mar;11(3):177–83

Evaluation of enalapril/diltiazem ER in hypertensive patients with coexisting renal dysfunction. Enalapril/Diltiazem ER in Hypertensive Renal Disease Group. Hricik DE, et al. **J Hum Hypertens** 1996 Nov;10(11):769–74

Hemodynamic and 24-h blood pressure profile of amlodipine monotherapy. Ibrahim MM, et al. **J Hum Hypertens** 1996 Jul;10(7):489–94

Pressor and depressor hormones during alcohol-induced blood pressure reduction in hypertensive patients. Kawano Y, et al. **J Hum Hypertens** 1996 Sep;10(9):595–9

The effect of hormone replacement therapy on blood pressure and cardiovascular risk factors in menopausal women with moderate hypertension [see comments] Kornhauser C, et al. **J Hum Hypertens** 1997 Jul; 11(7):405–11. Comment in: J Hum Hypertens 1997 Jul;11(7):397–9.

Sodium sensitivity of blood pressure in hypertensives is not related to sodium, but rather to renin. Krekels MM, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S127–30

Importance of trough : peak ratios in treatment of blood pressure in post-myocardial infarction and heart failure settings. Meredith PA. **J Hum Hypertens** 1997 Jan; 11(1):39–43 (14 ref.)

High-altitude pulmonary hypertension: effects of captopril on pulmonary and systemic arterial pressures. Niazova ZA, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S141–2

Efficacy of low felodipine dose monotherapy in mild-to-moderate hypertension: a comparison between office and ambulatory blood pressure monitoring. Podjarny E, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S153–6

Association between salt intake, heart rate and blood pressure. Rastenyte D, et al. **J Hum Hypertens** 1997 Jan; 11(1):57–62

Effects of moderate salt restriction alone and in combination with cilazapril on office and ambulatory blood pressure. Uusitupa M, et al. **J Hum Hypertens** 1996 May;10(5):319–26

Long-term blood pressure control in older Chinese patients with isolated systolic hypertension: a progress report on the Syst-China trial. Wang JG, et al. **J Hum Hypertens** 1996 Nov;10(11):735–42

Repeated fasting and refeeding with 20:5, n-3 eicosapentaenoic acid (EPA): a novel approach for rapid fatty acid exchange and its effect on blood pressure, plasma lipids and hemostasis. Yosefy C, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S135–9

Acute hypertension after nitric oxide synthase inhibition is mediated primarily by increased endothelin vasoconstriction. Banting JD, et al. **J Hypertens** 1996 Aug; 14(8):975–81

Influence of nifedipine on pressor responses induced by different alpha-adrenoceptor agonists and angiotensin II in pithed diabetic hypertensive rats. Beenen OH, et al. **J Hypertens** 1996 Jul;14(7):847–53

Relative importance of central imidazoline receptors for the antihypertensive effects of moxonidine and rilmenidine. Chan CK, et al. **J Hypertens** 1996 Jul;14(7):855–64

A comparison of the hypotensive and hypoglycaemic actions of an angiotensin converting enzyme inhibitor, an AT1a antagonist and troglitazone. Chen S, et al. **J Hypertens** 1996 Nov;14(11):1325–30

Psychophysiological reactivity of salt-sensitive normotensive subjects. Deter HC, et al. **J Hypertens** 1997 Aug; 15(8):839–44

Blood pressure effects of antihypertensive drugs and changes in lifestyle in a Brazilian hypertensive cohort. Fuchs FD, et al. **J Hypertens** 1997 Jul;15(7):783–92

Dietary electrolyte intake and blood pressure in older subjects: the Rotterdam Study [see comments] Geleijnse JM, et al. **J Hypertens** 1996 Jun;14(6):737–41. Comment in: J Hypertens 1996 Dec;14(12):1491.

Antihypertensive action of non-natriuretic doses of furosemide in Dahl salt-sensitive rats. Haugan K, et al. **J Hypertens** 1997 Jul;15(7):775–82

Renin-angiotensin system gene polymorphisms influence blood pressure and the response to angiotensin converting enzyme inhibition. Hingorani AD, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1602–9

Long-term inhibition of the renin-angiotensin system in genetic hypertension: analysis of the impact on blood pressure and cardiovascular structural changes. Lundie MJ, et al. **J Hypertens** 1997 Apr;15(4):339–48 (104 ref.)

Effect of deoxycorticosterone acetate on blood pressure in relation to accumulation of low-density lipoprotein and fibrinogen by aorta and other tissues of normotensive Wistar rats. Medina RA, et al. **J Hypertens** 1997 May; 15(5):531–6

Difference between office and ambulatory blood pressure and response to antihypertensive treatment. Parati G, et al. **J Hypertens** 1996 Jun;14(6):791–7

Impaired effectiveness of nitric oxide-donors in resistance arteries of patients with arterial hypertension. Preik M, et al. **J Hypertens** 1996 Jul;14(7):903–8

Effects of captopril related to increased levels of prostacyclin and angiotensin-(1–7) in essential hypertension [letter; comment] Reneland R, et al. **J Hypertens** 1996 Nov; 14(11):1380–1. Comment on: J Hypertens 1996 Jun;14(6):799–805.

Blood pressure and renal function: therapeutic implications [editorial] Ruilope LM, et al. **J Hypertens** 1996 Nov; 14(11):1259–63 (54 ref.)

Effects of chronic treatment with losartan on blood pressure, endothelin-like immunoreactivity and nitric oxide in normotensive rats. Sacerdote A, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1670–3

PROGRESS--perindopril protection against recurrent stroke study: status in July 1996. PROGRESS Management Committee. **J Hypertens Suppl** 1996 Dec;14(6):S47–51

Blood pressure lowering for the secondary prevention of stroke: rationale and design for PROGRESS. PROGRESS Management Committee. Perindopril Protection Against Recurrent Stroke Study. **J Hypertens Suppl** 1996 Sep; 14(2):S41–5; discussion S45–6 (20 ref.)

The optimal blood pressure reduction. Hansson L. **J Hypertens Suppl** 1996 Sep;14(2):S55–8; discussion S58–9 (22 ref.)

Blood pressure control after acute stroke. Lees KR, et al. **J Hypertens Suppl** 1996 Dec;14(6):S35–8 (22 ref.)

Blood pressure and the prevention of stroke. MacMahon S. **J Hypertens Suppl** 1996 Dec;14(6):S39–46 (33 ref.)

Blood pressure variability, cardiovascular risk and antihypertensive treatment. Parati G, et al. **J Hypertens Suppl** 1995 Dec;13(4):S27–34 (30 ref.)

Effects of polymerization on the hypertensive action of diaspirin cross-linked hemoglobin in rats [see comments] Abassi Z, et al. **J Lab Clin Med** 1997 Jun;129(6):603–10. Comment in: J Lab Clin Med 1997 Jun;129(6):580–3.

Potent tetracyclic guanine inhibitors of PDE1 and PDE5 cyclic guanosine monophosphate phosphodiesterases with oral antihypertensive activity. Ahn HS, et al. **J Med Chem** 1997 Jul 4;40(14):2196–210

(S)-spiro[(1,3-diazacyclopent-1-ene)-5,2'-(7'-methyl-1',2',3',4'- tetrahydronaphthalene)]: resolution, stereospecific synthesis, and preliminary pharmacological characterization as a partial alpha-adrenergic agonist. Cordi AA, et al. **J Med Chem** 1997 Aug 29;40(18):2931–5

The effects of calcium supplementation on ambulatory blood pressure in African-American adolescents. Davis IJ, et al. **J Natl Med Assoc** 1996 Dec;88(12):774–8

Effects of propofol on cerebral blood flow, metabolism, and cerebral autoregulation in the anesthetized pig. Lagerkranser M, et al. **J Neurosurg Anesthesiol** 1997 Apr; 9(2):188–93

Comparative cardiovascular effects of the angiotensin II type 1 receptor antagonists ZD 7155 and losartan in the rat. Junggren IL, et al. **J Pharm Pharmacol** 1996 Aug; 48(8):829–33

Antihypertensive effect of some oxazolo[3,2-a]pyridines, thiazolo[3,2-a]pyridines and pyrido[2,1-b]oxazines in conscious spontaneously hypertensive rats. Moran A, et al. **J Pharm Pharmacol** 1997 Apr;49(4):421–5

Circadian variation of alpha 1-adrenoceptor-mediated pressor response to phenylephrine in man. Tham TC, et al. **J Pharm Pharmacol** 1996 May;48(5):526–8

Pharmacological activity of DC-015, a novel potent and selective alpha 1-adrenoceptor antagonist. Yen MH, et al. **J Pharm Pharmacol** 1996 Jan;48(1):90–5

Differential effects of angiotensin converting enzyme inhibitors on the vasodepressor and prostacyclin responses to bradykinin. Brown NJ, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):703–12

Effect of tachykinin receptor inhibition in the brain on cardiovascular and behavioral responses to stress. Culman J, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):238–46

Cardiovascular actions of thrombin receptor activation in vivo. Damiano BP, et al. **J Pharmacol Exp Ther** 1996 Dec;

279(3):1365–78
Pharmacodynamics of acute tolerance to multiple nicotinic effects in humans. Fattinger K, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1238–46
Spinal muscarinic, glutamatergic and GABAergic receptor systems in cardiovascular regulation. Feldman DS, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):274–83
Cardiovascular effects of cholecystokinin–4 are mediated by the cholecystokinin–B receptor subtype in the conscious guinea pig and dog. Fossa AA, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):180–7
Pharmacokinetics and pharmacodynamics of the enantiomers of gallopamil. Gross AS, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1102–12
alpha–Adrenergic activity and cardiovascular effects of besipirdine HCl (HP 749) and metabolite P7480 in vitro and in the conscious rat and dog. Hubbard JW, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):337–46
Neuropeptide Y–mediated pressor responses following high–frequency stimulation of the rat sympathetic nervous system. Kennedy B, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):291–6
Excitatory gastric motor and cardiovascular effects of endothelins in the dorsal vagal complex are mediated through ET(A) receptors. Krowicki ZK, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):535–42
Early nociceptive events influence the temporal profile, but not the magnitude, of the tonic response to subcutaneous formalin: effects with remifentanil. Taylor BK, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):876–83
Relationships between pharmacokinetics and blockade of agonist–induced prostatic intraurethral pressure and mean arterial pressure in the conscious dog after single and repeated daily oral administration of terazosin. Witte DG, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):891–8
Participation of AT1 and AT2 receptors in the differential interaction between angiotensin II or III and alpha–2 adrenoceptors in the nucleus reticularis gigantocellularis in cardiovascular regulation and antinociception in rats. Yang CH, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):795–802
Artifact of blood pressure recording using heparin–filled catheter: effects on blood pressure and coagulation parameters. Martin V, et al. **J Pharmacol Toxicol Methods** 1996 Oct;36(2):69–72
Cardiovascular responses to static exercise in conscious cats: effects of intracerebroventricular injection of clonidine. Ally A, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):519–27
The effect of acetylcholine on finger capillary pressure and capillary flow in healthy volunteers. Morris SJ, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):307–13
Ibotenate lesion of the medial hypothalamus alters the salt intake and pressor responses to activation of the median preoptic nucleus in rats. do Vale CF, et al. **J Physiol Paris** 1997 Feb;91(1):31–7
Intravenous administration of haloperidol to healthy volunteers: lack of subjective effects but clear objective effects. Williams JH, et al. **J Psychopharmacol (Oxf)** 1997; 11(3):247–52
Haemodynamic, electrocardiographic, electrophysiologic and pharmacokinetic activity of 4'-hydroxypropranolol in dogs. Muir WW, et al. **J Vet Pharmacol Ther** 1996 Aug; 19(4):259–67
Cardiopulmonary effects of carfentanil in dama gazelles (Gazella dama). Schumacher J, et al. **J Zoo Wildl Med** 1997 Jun;28(2):166–70
Effects of calcium supplementation on pregnancy–induced hypertension [letter; comment] Levine R, et al. **JAMA** 1996 Nov 6;276(17):1387; discussion 1388. Comment on: JAMA 1996 Apr 10;275(14):1113–7.
Effects of calcium supplementation on pregnancy–induced hypertension [letter; comment] Roberts JM, et al. **JAMA** 1996 Nov 6;276(17):1386–7; discussion 1388. Comment on: JAMA 1996 Apr 10;275(14):1113–7.
Effects of oral potassium on blood pressure. Meta–analysis of randomized controlled clinical trials. Whelton PK, et al. **JAMA** 1997 May 28;277(20):1624–32
An analysis of the effects of nitroglycerin on forearm circumference, with simultaneous recordings of arterial and venous diameters and blood pressure. Oshibuchi R, et al. **Jpn Heart J** 1997 May;38(3):409–17
Adenosine for reversal of hemorrhagic shock in rabbits. Abdel–Zaher AO, et al. **Jpn J Pharmacol** 1996 Nov; 72(3):247–54
Selective blockade of endothelin receptor subtypes on systemic and renal vascular responses to endothelin–1 and IRL1620, a selective endothelin ETB–receptor agonist, in anesthetized rats. Matsuura T, et al. **Jpn J Pharmacol** 1996 Jul;71(3):213–22
Sympathoadrenal activity in the visceral (viscerovascular) reflexes to distension of the urinary bladder. Medda BK, et al. **Jpn J Physiol** 1996 Feb;46(1):3–92
Renal effects of angiotensin II receptor blockade in normotensive subjects. Burnier M, et al. **Kidney Int** 1996 Jun;49(6):1787–90 (32 ref.)
The angiotensin receptor antagonist, irbesartan, reduces renal injury in experimental chronic renal failure. Ziai F, et al. **Kidney Int Suppl** 1996 Dec;57:S132–6
Nitric oxide inhibition causes an exaggerated pressor response in Yucatan miniature swine. Vogl HW, et al. **Lab Anim Sci** 1997 Apr;47(2):161–6
Blood–pressure control in the hypertensive population [see comments] Mancia G, et al. **Lancet** 1997 Feb 15; 349(9050):454–7. Comment in: Lancet 1997 Jul 26;350(9073):290–1.
Lowering of blood pressure and artery stiffness [letter; comment] [see comments] Sleight P. **Lancet** 1997 Feb 1; 349(9048):362. Comment on: Lancet 1996 Sep 14;348(9029):696–7. Comment in: Lancet 1997 Mar 29;349(9056):955–6.
Nociceptin, an endogenous ligand for the ORL1 receptor, has novel hypotensive activity in the rat. Champion HC, et al. **Life Sci** 1997;60(16):PL 241–5
AT1 receptors mediate pressor responses induced by angiotensin II in the periaqueductal gray area of rats. D'Amico M, et al. **Life Sci** 1997;61(1):PL17–20
Proadrenomedullin NH2–terminal peptide (PAMP)(12–20) has vasodepressor activity in the rat and cat. Fry RC, et al. **Life Sci** 1997;60(10):PL161–7
An L–DOPA–like depressor action of L–threo–dihydroxyphenyl–serine in the rat caudal ventrolateral medulla. Furukawa N, et al. **Life Sci** 1997; 61(12):1177–83
Pressor effect of the putative M1 muscarinic receptor agonist MCN–A–343 in the conscious rat. Martin JR. **Life Sci** 1996; 59(22):1839–52
Blood pressure and cationic transport systems during combined calcium channel blocker and calcium administration in males. Lijnen P, et al. **Methods Find Exp Clin Pharmacol** 1996 May;18(4):287–94
Central inhibition of nitric oxide synthesis increases blood pressure and heart rate in anesthetized rats. Nurminen ML, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan–Feb; 19(1):35–41
Cardiovascular parameters of heroin–withdrawn addicts treated with guanfacine. Rubio G, et al. **Methods Find Exp Clin Pharmacol** 1997 Apr;19(3):189–92
Effects of operationally effective doses of dextroamphetamine on heart rates and blood pressures of army aviators. Caldwell JA Jr. **Mil Med** 1996 Nov;161(11):673–8
Inhibition of nitric oxide synthase potentiates hypertension and increases mortality in traumatically brain–injured rats. Lu YC, et al. **Mol Chem Neuropathol** 1997 Jan–Feb; 30(1–2):125–37
Celiprolol: agonist and antagonist effects at cardiac beta 1– and vascular beta 2–adrenoceptors determined under in vivo conditions in the rat. Alvarez–Guerra M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):689–98
Alpha–fluoromethylhistidine, an inhibitor of histamine biosynthesis, causes arterial hypertension. Campos HA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):627–32
Nature of 5–HT1–like receptors mediating depressor responses in vagosympathectomized rats; close resemblance to the cloned 5–ht7 receptor. De Vries P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):90–9
Influence of different dietary salts on the cardiovascular and renal effects of moxonidine in spontaneously hypertensive rats. Mervaala EM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):107–14
Effects of adenosine and adenosine analogues on mean circulatory filling pressure and cardiac output in anesthetized rats. Tabrizchi R. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):69–75
Influence of blockade of alpha 1–adrenoceptors, beta 1–adrenoceptors and vasopressin V1A receptors on the cardiovascular effects of gamma 2–melanocyte–stimulating hormone (gamma 2–MSH). Van Bergen P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):720–6
Subacute infusion of physiological doses of parathyroid hormone raises blood pressure in humans. Fliser D, et al. **Nephrol Dial Transplant** 1997 May;12(5):933–8
Blood pressure independent effects of nitrendipine on cardiac structure in patients after renal transplantation. Rockstroh JK, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1441–7
Volume sensitivity of blood pressure in end–stage renal disease. Ventura JE, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):485–91
Recombinant erythropoietin increases blood pressure in experimental hypertension and uraemia without change in vascular cytosolic calcium. Roger SD, et al. **Nephron** 1996; 73(2):212–8
Dexamethasone in the last week of pregnancy attenuates hippocampal glucocorticoid receptor gene expression and elevates blood pressure in the adult offspring in the rat. Levitt NS, et al. **Neuroendocrinology** 1996 Dec;64(6):412–8
Vasopressin acts in the subfornical organ to decrease blood pressure. Smith PM, et al. **Neuroendocrinology** 1997 Aug; 66(2):130–5
Selegiline diminishes cardiovascular autonomic responses in Parkinson's disease. Turkka J, et al. **Neurology** 1997 Mar; 48(3):662–7
Activity of centrally truncated analogues of neuropeptide Y at Y1 and Y2 receptor subtypes in vivo. McCloskey MJ, et al. **Neuropeptides** 1997 Apr;31(2):193–7
Involvement of nitric oxide in cardiorespiratory regulation in the nucleus tractus solitarii. Vitagliano S, et al. **Neuropharmacology** 1996 May;35(5):625–31
Medullary pathways of cardiovascular responses to 5–HT2 and 5–HT3 receptor stimulation in the rat nucleus tractus solitarius. Sévoz C, et al. **Neuroreport** 1996 Aug 12; 7(12):1965–9
Role of nitric oxide and serotonin in modulation of the cardiovascular defence response evoked by stimulation in the periaqueductal grey matter in rats. Hamalainen MM, et al. **Neurosci Lett** 1997 Jun 27;229(2):105–8
Modification of cardiovascular response of adenosine A1 receptor agonist by cyclic AMP in the spinal cord of the rats. Koh HC, et al. **Neurosci Lett** 1996 Nov 29; 219(3):195–8
Activation of chemosensitive neurons in the ventrolateral medulla by capsaicin in cats. Seller H, et al. **Neurosci Lett** 1997 May 2;226(3):195–8
Central administration of a nitric oxide synthase inhibitor impairs spatial memory in spontaneous hypertensive rats. Suzuki Y, et al. **Neurosci Lett** 1996 Mar 29;207(2):105–8
Evidence for independent hypertensive effects of oxytocin and vasopressin in the rat dorsal vagal complex. Tian PS, et al. **Neurosci Res** 1997 Mar;27(3):285–8
Responses of rat postganglionic sympathetic vasoconstrictor neurons following blockade of nitric oxide synthesis in vivo. Häbler HJ, et al. **Neuroscience** 1997 Apr; 77(3):899–909
Evidence for the relationship of calcium to blood pressure. Osborne CG, et al. **Nutr Rev** 1996 Dec;54(12):365–81 (169 ref.)
Differing responses in blood pressure over 24 hours in normotensive women receiving oral or transdermal estrogen replacement therapy. Akkad AA, et al. **Obstet Gynecol** 1997 Jan;89(1):97–103
Nicardipine to control mean arterial pressure during extracorporeal membrane oxygenation. Tobias JD, et al. **Paediatr Anaesth** 1996;6(1):57–60
Effects of zaprinast and dissolved nitric oxide on the pulmonary circulation of fetal sheep. Skimming JW, et al. **Pediatr Res** 1996 Feb;39(2):223–8
Intravenous beta–endorphin administration fails to alter hypothalamic blood flow in rats expressing normal or reduced nitric oxide synthase activity. Benyó Z, et al. **Peptides** 1996;17(4):733–6
Adrenomedullin (16–31) has pressor activity in the rat but not the cat. Champion HC, et al. **Peptides** 1997;18(1):133–6
Isolation and cardiovascular activity of a second bradykinin–related peptide ([Arg0, Trp5, Leu8]bradykinin) from trout. Conlon JM, et al. **Peptides** 1996;17(3):531–7
Intravenous NPY (27–36)–D decreases cardiac output in conscious Sprague–Dawley rats. Roscoe AK, et al. **Peptides** 1996;17(3):539–43
Chlorthalidone–modulated vascular responses to vasodilator stimuli in DOCA–salt hypertensive rats. Bissoli NS, et al. **Pharmacol Res** 1996 Jan;33(1):47–54
Effect of 2–methyltaurine and its enantiomers on arterial blood pressure. Braghiroli D, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):33–6
Effects of naftopidil on some urodynamic parameters and arterial blood pressure in comparison with prazosin in conscious rats. Pescalli N, et al. **Pharmacol Res** 1996 Sep–Oct;34(3–4):121–4
Cardiovascular actions of chronic intracerebroventricular administration of metformin in normotensive rats. Andersen D, et al. **Pharmacol Toxicol** 1997 Jul;81(1):7–12
Effects of selective and nonselective alpha–1–adrenoceptor antagonists on intraurethral and arterial pressures in intact conscious dogs. Brune ME, et al. **Pharmacology** 1996 Dec; 53(6):356–68
Age–related changes in alpha–adrenoceptor–mediated blood pressure in the rat: relationship between the potency for phenylephrine and the maximum number of binding sites. Koike K, et al. **Pharmacology** 1996 Jan;52(1):16–24
Glyceryl nonivamide, a nonpungent analogue of capsaicin, enhances substance P release and renal function in rats. Lo YC, et al. **Pharmacology** 1997 Mar;54(3):127–34
Nonpeptide angiotensin II receptor antagonist: pharmacokinetics and pharmacodynamics in rats of EXP3174, an active metabolite of losartan. Wong PC, et al. **Pharmacology** 1996 Jan;52(1):25–9
Comparison of two formulations of nifedipine during 24–hour ambulatory blood pressure monitoring. Granberry MC, et al. **Pharmacotherapy** 1996 Sep–Oct;16(5):932–6
Comparison of two formulations of nifedipine during 24–hour ambulatory blood pressure monitoring--a comment. Lucas BD Jr, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):853–4
Influence of grapefruit juice on caffeine pharmacokinetics and pharmacodynamics. Maish WA, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1046–52
The renin–angiotensin–aldosterone system: focus on its distinct role in arterial hypertension and its various inhibitors as a therapeutic strategy to effectively lower blood pressure. Soldner A, et al. **Pharmazie** 1996 Nov; 51(11):783–99 (239 ref.)
Drinking and blood pressure responses to central injection of L–NAME in conscious rats. Liu H, et al. **Physiol Behav** 1996 Jun;59(6):1137–45
Oxytocin causes a long–term decrease of blood pressure in female and male rats. Petersson M, et al. **Physiol Behav** 1996 Nov;60(5):1311–5
Comparison of changes in blood pressure and dipsogenic responsiveness to angiotensin II in male and female rats chronically exposed to cold. Sun Z, et al. **Physiol Behav** 1996 Dec;60(6):1543–9

The inhibition of angiotensin converting enzyme attenuates the effects of chronic hypoxia on pulmonary blood vessels in the rat. Herget J, et al. **Physiol Res** 1996;45(3):221–6

Tetramethylpyrazine, a calcium antagonist. Pang PK, et al. **Planta Med** 1996 Oct;62(5):431–5

Influence of captopril on the serotonin–induced vasopressor effect in tail artery isolated from two–kidney, one–clip renal hypertensive rats. Morelowska–Spierzak D, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):417–22

Correction of hypertension by normalization of endothelial levels of fibroblast growth factor and nitric oxide synthase in spontaneously hypertensive rats. Cuevas P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11996–2001

Effects of norepinephrine infusion and exercise on blood pressure in rats. Chi MS, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):174–8

Eicosanoid modulation of the norepinephrine effect on blood pressure and renal hemodynamics in humans. Isenring P, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):59–63

Antihypertensive therapy and wave reflections. Safar ME, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):71–6 (27 ref.)

Thromboxane inhibition potentiates antihypertensive effects of alpha 1 adrenoceptor antagonists in the rat. Takada S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Feb; 56(2):127–34

Effects of lactate on cross–spectral analysis of heart rate, blood pressure, and lung volume in normal volunteers. Yeragani VK, et al. **Psychiatry Res** 1996 Feb 28;60(1):77–85

Alcohol pretreatment increases preference for cocaine over monetary reinforcement. Higgins ST, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):1–8

Enhancement of cocaine's abuse liability in methadone maintenance patients. Preston KL, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):15–25

Effects of flumazenil in the treatment of benzodiazepine withdrawal––a double–blind pilot study. Saxon L, et al. **Psychopharmacology (Berl)** 1997 May;131(2):153–60

Subjective and cardiovascular effects of intravenous nicotine in smokers and non–smokers. Soria R, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):221–6

Effects of alprazolam and lorazepam on catecholaminergic and cardiovascular activity during supine rest, mental load and orthostatic challenge. van den Berg F, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):21–30

The cardiovascular startle response: anxiety and the benzodiazepine receptor complex. Berntson GG, et al. **Psychophysiology** 1997 May;34(3):348–57

The effects of recent food, alcohol, and tobacco intake and the temporal scheduling of testing on cardiovascular activity at rest and during psychological stress. Sheffield D, et al. **Psychophysiology** 1997 Mar;34(2):204–12

Subarachnoid neostigmine does not affect blood pressure or heart rate during bupivacaine spinal anesthesia. Lauretti GR, et al. **Reg Anesth** 1996 Nov–Dec;21(6):586–91

Interactions of exendin–(9–39) with the effects of glucagon–like peptide–1–(7–36) amide and of exendin–4 on arterial blood pressure and heart rate in rats. Barragán JM, et al. **Regul Pept** 1996 Nov 14;67(1):63–8

Effects of intracerebroventricular injections of losartan or PD123319 on arterial pressure and heart rate of sodium replete and sodium deplete rats. De Luca LA Jr, et al. **Regul Pept** 1996 Oct 8;66(1–2):31–5

The effect of galanin and galanin fragments on blood pressure in the Cane toad, Bufo marinus. Mahns DA, et al. **Regul Pept** 1996 Dec 17;67(3):153–62

Heparin decreases blood pressure and response to exogenous endothelin but does not protect against chronic experimental cyclosporine nephropathy. Bennett WM, et al. **Ren Fail** 1997 May;19(3):383–7

Role of aortic chemoreceptors in the hypertensive response to cigarette smoke. Anand A. **Respir Physiol** 1996 Dec; 106(3):231–8

The effect of pentagastrin, cholecystokinin and their analogues on rat arterial blood pressure and isolated heart. Wiśniewska R, et al. **Rocz Akad Med Bialymst** 1996; 41(2):183–90

Circadian blood pressure rhythm and atrial natriuretic peptide in prednisolone–induced blood pressure elevation. Ivarsen P, et al. **Scand J Clin Lab Invest** 1995 Dec; 55(8):655–62

The influence of C1–esterase inhibitor substitution on coagulation and cardiorespiratory parameters in an endotoxin–induced rabbit model of hypercoagulability. Scherer RU, et al. **Semin Thromb Hemost** 1996;22(4):357–66

Inhibition of ATP–activated potassium channels exerts pressor effects and improves survival in a rat model of severe hemorrhagic shock. Szabó C, et al. **Shock** 1996 Jun; 5(6):391–4

Hydralazine reduces elevated sleep apnea index in spontaneously hypertensive (SHR) rats to equivalence with normotensive Wistar–Kyoto rats. Carley DW, et al. **Sleep** 1996 Jun;19(5):363–6

Investigation of the mineralocorticoid and hypertensinogenic activity of 18–hydroxycortisol in conscious sheep. De Matteo R, et al. **Steroids** 1997 Apr;62(4):351–7

Mineralocorticoids, salt and high blood pressure. Gómez–Sánchez EP, et al. **Steroids** 1996 Apr;61(4):184–8 (51 ref.)

Effects of estrogens and progestogens on the renin–aldosterone system and blood pressure. Oelkers WK. **Steroids** 1996 Apr;61(4):166–71 (50 ref.)

Omental delivery of prostaglandin E1 effectively increases portal venous blood flow in 66%–hepatectomized rats. Aono T, et al. **Surg Today** 1997;27(5):473–6

Description of blood pressure changes in patients beginning cyclosporin A therapy. Charnick SB, et al. **Ther Drug Monit** 1997 Feb;19(1):17–24

Cardiovascular collapse through non–cholinergic mechanism after intravenous injection of N–methylcarbamate insecticide in rabbits. Futagawa H, et al. **Toxicology** 1997 Feb 28;117(2–3):163–70

Pharmacological activity of the interdomain segment between metalloproteinase and disintegrin domains. Kini RM, et al. **Toxicon** 1997 Apr;35(4):529–35

Loss of blood pressure circadian rhythm in renal transplant recipients taking cyclosporine. Keitel E, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):222

Biofeedback assisted relaxation in essential hypertension: short–term follow–up of contributing effects of pharmacotherapy on blood pressure and heart rate. "Brief communication". Cengiz E, et al. **Yonsei Med J** 1997 Apr; 38(2):86–90

[Angiotensin II antagonists] Tikkanen I, et al. **Duodecim** 1995; 111(18):1733–5 **(Fin)**

[Contribution of the renin–angiotensin system to the variability of blood pressure in hypertensive rat after blockade of nitric oxide synthesis] Gouédard O, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1013–7 (Eng. Abstr.) **(Fre)**

[Evaluation of trough/peak ratio of indapamide 1.5 mg sustained–release form assessed by ambulatory blood pressure monitoring] Mallion JM, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89 Spec No 4:27–38 (Eng. Abstr.) **(Fre)**

[Effects of octreotide on experimental orthostatic neurogenic hypotension] Verwaerde P, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1097–1101 (Eng. Abstr.) **(Fre)**

[Postmenopausal hormone substitution and its effects on the climacteric syndrome, body weight and blood pressure] Fritsch H, et al. **Zentralbl Gynakol** 1997;119(3):128–32 (Eng. Abstr.) **(Ger)**

[Effect of aging on alpha–1 receptor–mediated, phenylephrine–induced contraction and pressor response: relationship with the amount of receptors] Koike K, et al. **J Smooth Muscle Res** 1995 Dec;31(6):396–7 **(Jpn)**

[Repeated administration of protamine attenuates protamine–induced systemic hypotension] Komatsu H, et al. **Masui** 1996 Nov;45(11):1319–22 (Eng. Abstr.) **(Jpn)**

[Effects of cyclosporin A on the diurnal variation of blood pressure in patients with nephrotic syndrome] Takakuwa H, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):400–7 (Eng. Abstr.) **(Jpn)**

[The effect of ACE inhibitors, beta blockers and calcium antagonists on the responses to pressor stress tests in the elderly hypertensive patients] Suzuki Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):27–32 (Eng. Abstr.) **(Jpn)**

[Influence of rifampicin on antihypertensive effects of dihydropiridine calcium–channel blockers in four elderly patients] Yoshimoto H, et al. **Nippon Ronen Igakkai Zasshi** 1996 Sep;33(9):692–6 (Eng. Abstr.) **(Jpn)**

[Antihypertensive effects of a novel calcium antagonist, AE0047, in various hypertensive models] Kido H, et al. **Nippon Yakurigaku Zasshi** 1997 Jun;109(6):279–89 (Eng. Abstr.) **(Jpn)**

[Effects of kamikihi–to on ovariectomy–induced changes in behavior and circulation in rats] Shimamura M, et al. **Nippon Yakurigaku Zasshi** 1996 Aug;108(2):65–75 (Eng. Abstr.) **(Jpn)**

[Effect of tea–leaf saponin on blood pressure of spontaneously hypertensive rats] Sagesaka–Mitane Y, et al. **Yakugaku Zasshi** 1996 May;116(5):388–95 (Eng. Abstr.) **(Jpn)**

[Intracoronary isosorbide mononitrate versus placebo. A double–blind study with quantitative coronary angiography] Vieira Botelho R, et al. **Arq Bras Cardiol** 1995 Oct;65(4):313–5 (Eng. Abstr.) **(Por)**

[Biochemical and physiological activity of new peptide inhibitors of angiotensin–converting enzyme] Gomazkov OA, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):279–81 **(Rus)**

[Effect of bombesin(6–14) on the arterial pressure in normal condition and during hypovolemic shock] Mar'ianovich AT, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):372–4 **(Rus)**

[A comparison of the effect of Capoten (captopril) and ramipril on the circadian profile of the arterial pressure and peripheral hemodynamics in patients with hypertension combined with diabetes mellitus] Filatova EV, et al. **Ter Arkh** 1996;68(5):67–70 (Eng. Abstr.) **(Rus)**

[A decrease in arterial pressure by using organic nitrates] Kleist P, et al. **Ter Arkh** 1993;65(2):90–3 **(Rus)**

[The effect of the new angiotensin–converting enzyme inhibitor moexipril on the circadian rhythms of arterial pressure in hypertension patients] Ol'binskaia LI, et al. **Ter Arkh** 1997;69(3):58–61 (Eng. Abstr.) **(Rus)**

[A decrease in left ventricular hypertrophy and the dynamics of the parameters of circadian BP monitoring under the influence of ramipril in patients with essential arterial hypertension] Pekarskiĭ SE, et al. **Ter Arkh** 1997; 69(4):18–20 (Eng. Abstr.) **(Rus)**

[Effect of the administration of furosemide on the fluid filtration rate and in pulmonary artery pressure in isolated lungs of rabbits] Rosales Romero AM, et al. **Acta Cient Venez** 1994;45(2):102–5 (Eng. Abstr.) **(Spa)**

[Anticholinergic action of clonidine on cardiovascular effects of the central cholinergic estimulation] Taira CA. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):119–26 (Eng. Abstr.) **(Spa)**

GENETICS

Analysis of Met235 to Thr variant of the angiotensinogen gene in relation to the blood pressure and family history of essential hypertension in Japanese children. Kataoka S, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):312–6

Apolipoprotein E phenotype and diet–induced alteration in blood pressure. Rantala M, et al. **Am J Clin Nutr** 1997 Feb;65(2):543–50

No effect of genetic variation at the angiotensinogen locus on ambulatory blood pressure level in normotensive subjects. Bigda J, et al. **Am J Hypertens** 1997 Jun; 10(6):692–5

The angiotensin converting enzyme and blood pressure in Jamaicans. Forrester T, et al. **Am J Hypertens** 1997 May; 10(5 Pt 1):519–24

Ambulatory blood pressure monitoring for detecting the relation between angiotensinogen gene polymorphism and hypertension. Gharavi AG, et al. **Am J Hypertens** 1997 Jun;10(6):687–91

Major histocompatibility complex in the rat and blood pressure regulation. Kuneš J, et al. **Am J Hypertens** 1996 Jul;9(7):675–80

Diurnal blood pressure rhythm in hypertensives with parental history of stroke. Maeda Y, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):562–4

Genetic influences on insulinemia in normotensive twins. Narkiewicz K, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):467–70

Role of sex in familial aggregation of blood pressure in young families [letter] Chen Y, et al. **Am J Med Genet** 1997 May 16;70(2):207–8

Interaction between fibrillin genotype and blood pressure and the development of aneurysmal disease. Powell JT, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:198–207

Novel quantitative trait loci for blood pressure and related traits on rat chromosomes 1, 10, and 18. Kovács P, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):343–8

Alleles of the spontaneously hypertensive rat decrease blood pressure at loci on chromosomes 4 and 13. Kovács P, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):586–9

Glucocorticoid receptor mutations in genetically hypertensive rats: markers of glucocorticoid insensitivity? Heeley RP, et al. **Biochem Soc Trans** 1997 May;25(2):236S

Hypertensive and hypotensive mice produced by the introduction and disruption of genes on the renin–angiotensin system. Murakami K, et al. **Blood Press Suppl** 1996;2:36–40

Evidence for primary genetic determination of heart rate regulation: chromosomal mapping of a genetic locus in the rat. Kreutz R, et al. **Circulation** 1997 Aug 19;96(4):1078–81

Genetics of blood pressure and associated phenotypes in the Lyon rat. Sassard J, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):567–75

Angiotensin I converting enzyme gene cosegregates with blood pressure and heart weight in F2 progeny derived from spontaneously hypertensive and normotensive Wistar–Kyoto rats. Zhang L, et al. **Clin Exp Hypertens** 1996 Aug;18(6):753–71

Cosegregation of genes on chromosome 5 with heart weight and blood pressure in genetic hypertension. Zhang L, et al. **Clin Exp Hypertens** 1996 Nov;18(8):1073–87

Alpha 1–antitrypsin deficiency alleles and blood pressure in an Australian population. Huggard PR, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):600–1

Association of the brain natriuretic peptide gene with blood pressure and heart weight in the rat. Zhang L, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):442–4

alpha–adducin may control blood pressure both in rats and humans. Bianchi G, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S7–9

Analyses of mutations in the human renal kallikrein (hKLK1) gene and their possible relevance to blood pressure regulation and risk of myocardial infarction. Berge KE, et al. **Clin Genet** 1997 Aug;52(2):86–95

Insertion/deletion polymorphism in the angiotensin–converting–enzyme gene and blood pressure during ergometry in normal males. Friedl W, et al. **Clin Genet** 1996 Dec;50(6):541–4

Segregation analysis of cardiovascular reactivity to laboratory stressors. Cheng LS, et al. **Genet Epidemiol** 1997; 14(1):35–49

A biometrical genome search in rats reveals the multigenic basis of blood pressure variation. Schork NJ, et al. **Genome Res** 1995 Sep;5(2):164–72

Blood pressure profile of Lepchas of the Sikkim Himalayas: epidemiological study. Mukhopadhyay B, et al. **Hum Biol** 1996 Feb;68(1):131–45

Association of the angiotensinogen gene to serum angiotensinogen in blacks and whites. Bloem LJ, et al. **Hypertension** 1997 May;29(5):1078–82

Linkage analysis using platelet–activating factor Ca2+ response in transformed lymphoblasts. Brzustowicz LM, et al. **Hypertension** 1997 Jan;29(1 Pt 2):158–64

Angiotensin II type 1 receptor A/C1166 polymorphism. Relationships with blood pressure and cardiovascular structure. Castellano M, et al. **Hypertension** 1996 Dec; 28(6):1076–80

Quantitative trait loci in genetically hypertensive rats. Possible sex specificity. Clark JS, et al. **Hypertension** 1996 Nov;28(5):898–906

Absence of linkage for "endothelial" nitric oxide synthase locus to blood pressure in Dahl rats. Deng AY, et al. **Hypertension** 1997 Jan;29(1 Pt 1):49–52

Spontaneously hypertensive rat Y chromosome increases indexes of sympathetic nervous system activity. Ely D, et al. **Hypertension** 1997 Feb;29(2):613–8

Angiotensinogen gene variation associated with variation in blood pressure in aboriginal Canadians. Hegele RA, et al. **Hypertension** 1997 May;29(5):1073–7

Blood pressure and the M235T polymorphism of the angiotensinogen gene. Hingorani AD, et al. **Hypertension** 1996 Nov;28(5):907–11

Transfer of a salt-resistant renin allele raises blood pressure in Dahl salt-sensitive rats. Jiang J, et al. **Hypertension** 1997 Feb;29(2):619–27

Variation at the angiotensin-converting enzyme gene and angiotensinogen gene loci in relation to blood pressure. Kiema TR, et al. **Hypertension** 1996 Dec;28(6):1070–5

Angiotensin-converting enzyme gene mutations, blood pressures, and cardiovascular homeostasis. Krege JH, et al. **Hypertension** 1997 Jan;29(1 Pt 2):150–7

The Y chromosome. Epistatic and ecogenetic interactions in genetic hypertension. Kreutz R, et al. **Hypertension** 1996 Nov;28(5):895–7

Analysis of quantitative trait loci for blood pressure on rat chromosomes 2 and 13. Age-related differences in effect. Samani NJ, et al. **Hypertension** 1996 Dec;28(6):1118–22

Genetically complex cardiovascular traits. Origins, problems, and potential solutions. Schork NJ. **Hypertension** 1997 Jan; 29(1 Pt 2):145–9 (27 ref.)

Hypotension in transgenic mice overexpressing human bradykinin B2 receptor. Wang DZ, et al. **Hypertension** 1997 Jan;29(1 Pt 2):488–93

Polymorphism of angiotensin I converting enzyme gene in the older Chinese: linked to ambulatory blood pressure levels and circadian blood pressure rhythm. Jian M, et al. **Int J Cardiol** 1996 Jul 5;55(1):33–40

Genetic isolation of a region of chromosome 8 that exerts major effects on blood pressure and cardiac mass in the spontaneously hypertensive rat. Kren V, et al. **J Clin Invest** 1997 Feb 15;99(4):577–81

Genetic variants of the renin-angiotensin system and ambulatory blood pressure in essential hypertension. Beige J, et al. **J Hypertens** 1997 May;15(5):503–8

Genetic influences on blood pressure with the cold-pressor test: a twin study. Busjahn A, et al. **J Hypertens** 1996 Oct; 14(10):1195–9

Hpa II polymorphism of the atrial natriuretic peptide gene and the blood pressure response to salt intake in normotensive men. Schorr U, et al. **J Hypertens** 1997 Jul; 15(7):715–8

Kallikrein binding protein (KBP) maps to rat chromosome 6 but does not cosegregate with blood pressure in a GH x BN cross. Chen A, et al. **Mamm Genome** 1997 Sep; 8(9):701–3

Mapping of rat chromosome 5 markers generated from chromosome-sorted DNA. Deng AY, et al. **Mamm Genome** 1997 Aug;8(8):549–53

Linkage map and congenic strains to localize blood pressure QTL on rat chromosome 10. Dukhanina OI, et al. **Mamm Genome** 1997 Apr;8(4):229–35

Interval mapping and congenic strains for a blood pressure QTL on rat chromosome 13. Zhang QY, et al. **Mamm Genome** 1997 Sep;8(9):636–41

Blood pressure and salt and water-relevant genes [editorial] Luft FC. **Nephrol Dial Transplant** 1996 Sep;11(9):1705–8 (12 ref.)

Early environmental influences can attenuate the blood pressure response to acute stress in borderline hypertensive rats. Sanders BJ, et al. **Physiol Behav** 1997 May; 61(5):749–54

Cardiac profile and disruptive behavior in boys at risk for delinquency. Pine DS, et al. **Psychosom Med** 1996 Jul–Aug; 58(4):342–53

Mutations contributing to human blood pressure variation. Karet FE, et al. **Recent Prog Horm Res** 1997;52:263–76; discussion 276–7 (59 ref.)

Normotensive blood pressure in mice with a disrupted renin Ren-1d gene. Bertaux F, et al. **Transgenic Res** 1997 May; 6(3):191–6

PHYSIOLOGY

Orthostatic change in shock index: comparison with traditional tilt test definitions. Witting MD, et al. **Acad Emerg Med** 1996 Oct;3(10):926–31

Power spectral analysis of arterial pressure signals: physiologic principles and clinical applications. Chan S. **Acta Anaesthesiol Scand Suppl** 1997;110:119–20

Brain tissue pO2 in relation to cerebral perfusion pressure, TCD findings and TCD-CO2-reactivity after severe head injury. Dings J, et al. **Acta Neurochir (Wien)** 1996; 138(4):425–34

Stump pressure as a guide to the safety of permanent occlusion of the internal carotid artery. Kurata A, et al. **Acta Neurochir (Wien)** 1996;138(5):549–54

Lipid profiles and blood pressure: are they risk factors for the development of early background retinopathy and incipient nephropathy in children with insulin-dependent diabetes mellitus? Kordonouri O, et al. **Acta Paediatr** 1996 Jan;85(1):43–8

The influence of some perinatal variables on neonatal blood pressure. O'Sullivan MJ, et al. **Acta Paediatr** 1996 Jul; 85(7):849–53

Pulmonary artery pressure in term and preterm neonates revisited [letter] Subhedar NV, et al. **Acta Paediatr** 1997 Jul;86(7):781–2

Insertion of a pacing lead via the tricuspid valve does not affect cardiac function and tricuspid valve regurgitation in young dogs. Kikuchi Y, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):32–5

Suprachiasmatic nuclei lesions eliminate the group circadian rhythm of systolic arterial pressure but not of heart rate in rats. Stoynev AG, et al. **Acta Physiol Pharmacol Bulg** 1996;22(1):1–6

Atrial plasma ANP and NH2-terminal proANP during right atrial pressure increase in humans. Arjamaa O, et al. **Acta Physiol Scand** 1996 Aug;157(4):481–5

Local vascular responses to elevation of an organ above the heart. Asgeirsson B, et al. **Acta Physiol Scand** 1996 Jan; 156(1):9–18

Chemoreceptors in autonomic responses to hypoxia in conscious rats. Hayashida Y, et al. **Adv Exp Med Biol** 1996; 410:439–42

Platelet-activating factor. A possible role in the modulation of the vasomotor tone and blood pressure. Lopes-Martins RA, et al. **Adv Exp Med Biol** 1996;416:223–30

Mechanisms underlying spinal neuromodulation of the exercise pressor reflex. Stebbins CL. **Adv Exp Med Biol** 1995;381:209–13

Correlation between effective peritoneal blood flow, blood pressure, and peritoneal transfer rates. Grzegorzewska AE, et al. **Adv Perit Dial** 1996;12:19–23

Blood pressure and intellectual function in elderly subjects. Palombo V, et al. **Age Ageing** 1997 Mar;26(2):91–8

Safety of pediatric neuroimaging [comment] Ball WS Jr. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1037. Comment on: AJNR Am J Neuroradiol 1996 Jun–Jul;17(6):1033–6.

The effect of arteriovenous malformations on the distribution of intracerebral arterial pressures. Fogarty-Mack P, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1443–9

Preliminary report: changes in vital signs of term newborns during MR [see comments] Philbin MK, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1033–6. Comment in: AJNR Am J Neuroradiol 1996 Jun–Jul;17(6):1037.

Relation of pacing-induced coronary resistance vessel dilation to total serum cholesterol and heart rate-blood pressure product. Anderson TJ, et al. **Am J Cardiol** 1997 Jul 1;80(1):16–20

Relation between left ventricular remodeling and nocturnal blood pressure in the elderly with systemic hypertension. Aono T, et al. **Am J Cardiol** 1997 Jul 1;80(1):81–4

Association of systolic blood pressure at time of myocardial ischemia with angina pectoris during exercise testing. Go BM, et al. **Am J Cardiol** 1997 Apr 1;79(7):954–6

Effects of moxibustion on blood pressure and renal function in spontaneously hypertensive rats. Lee HS, et al. **Am J Chin Med** 1997;25(1):21–6

Genetic and nongenetic determinants of salt sensitivity and blood pressure. Cowley AW Jr. **Am J Clin Nutr** 1997 Feb; 65(2 Suppl):587S–593S (50 ref.)

Blood pressure response to sodium in children and adolescents. Falkner B, et al. **Am J Clin Nutr** 1997 Feb; 65(2 Suppl):618S–621S (27 ref.)

Nature and role of observational studies in public health policy concerning the effects of dietary salt intake on blood pressure. Haynes RB. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):622S–625S (7 ref.)

Heterogeneous responses to changes in dietary salt intake: the salt-sensitivity paradigm. Luft FC, et al. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):612S–617S (49 ref.)

Salt and blood pressure in community-based intervention trials. Staessen JA, et al. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):661S–670S (99 ref.)

The INTERSALT Study: background, methods, findings, and implications. Stamler J. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):626S–642S (153 ref.)

Low birth weight and blood pressure at age 7–11 years in a biracial sample. Donker GA, et al. **Am J Epidemiol** 1997 Mar 1;145(5):387–97

Blood pressure and performance on the Mini-Mental State Examination in the very old. Cross-sectional and longitudinal data from the Kungsholmen Project. Guo Z, et al. **Am J Epidemiol** 1997 Jun 15;145(12):1106–13

Insulin-like growth factor 1 and pressure load in hypertensive patients. Andronico G, et al. **Am J Hypertens** 1996 Jun; 9(6):607–9

Left ventricular mass is better correlated with arising blood pressure than with office or occasional blood pressure. Gosse P, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):505–10

Relation of 24-h ambulatory blood pressure with plasma potassium in essential hypertension. Goto A, et al. **Am J Hypertens** 1997 Mar;10(3):337–40

Ambulatory blood pressure monitoring during pregnancy: establishment of standards of normalcy [letter] Halligan A, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1240

Effect of estrogen withdrawal on blood pressure and insulin resistance in sucrose-fed juvenile rats. Hulman S, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1200–5

Plasma insulin-like growth factor 1 distribution and its relation to blood pressure in adolescents: the Bogalusa Heart Study. Jiang X, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):714–9

Body weight and blood pressure. Effects of weight reduction on hypertension. Jones DW. **Am J Hypertens** 1996 Aug; 9(8):50s–54s

Effects of blood pressure control on radial artery diameter and compliance in hypertensive patients. Khder Y, et al. **Am J Hypertens** 1997 Mar;10(3):269–74

Body mass index is associated with differential seasonal change in ambulatory blood pressure levels. Kristal-Boneh E, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1179–85

Simultaneous and sequential same-arm measurements in the validation studies of automated blood pressure measuring devices. Livi R, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1228–31

Relationship between birth weight and awake blood pressure in children and adolescents in absence of intrauterine growth retardation. Lurbe E, et al. **Am J Hypertens** 1996 Aug;9(8):787–94

Blood pressure responses to exercise as predictors of blood pressure level after 5 years. Majahalme S, et al. **Am J Hypertens** 1997 Jan;10(1):106–16

Diurnal blood pressure variation in kidney-pancreas transplant recipients. Marx MA, et al. **Am J Hypertens** 1996 Aug;9(8):823–7

Mechanisms mediating postprandial blood pressure reduction in young and elderly subjects. Masuo K, et al. **Am J Hypertens** 1996 Jun;9(6):536–44

Smoking related to 24-h ambulatory blood pressure and heart rate: a study in 352 normotensive Danish subjects. Mikkelsen KL, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):483–91

Effects of placental proteases on maternal and fetal blood pressure in normal pregnancy and preeclampsia. Mizutani S, et al. **Am J Hypertens** 1996 Jun;9(6):591–7 (39 ref.)

Blood platelet responses to laboratory stress in young men. The effect of awareness of high blood pressure. Mundal HH, et al. **Am J Hypertens** 1996 Jan;9(1):12–7

Systolic hypertension and the white coat phenomenon [editorial] Myers MG. **Am J Hypertens** 1996 Sep; 9(9):938–40

What time is the "biologic zero hour" of circadian variability? Okutani M, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):756–62

Effects of race and ethnicity on insulin sensitivity, blood pressure, and heart rate in three ethnic populations: comparative studies in African-Americans, African immigrants (Ghanaians), and white Americans using ambulatory blood pressure monitoring. Osei K, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1157–64

Relation between exercise-induced left ventricular wall motion abnormalities and coronary artery disease in hypertensive patients: effects of blood pressure normalization. Pepi M, et al. **Am J Hypertens** 1997 Mar; 10(3):297–305

The role of the cytochrome P450-dependent metabolites of arachidonic acid in blood pressure regulation and renal function: a review. Rahman M, et al. **Am J Hypertens** 1997 Mar;10(3):356–65 (104 ref.)

The relationship between sleep deprivation and the nocturnal decline of blood pressure. Rosansky SJ, et al. **Am J Hypertens** 1996 Nov;9(11):1136–8

Reproducibility of home blood pressure measurements over a 1-year period. Sakuma M, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):798–803

Humoral factors and blood pressure in DOCA-salt hypertensive rats [letter; comment] Schiffrin EL. **Am J Hypertens** 1997 Jul;10(7 Pt 1):825–7. Comment on: Am J Hypertens 1996 Oct;9(10 Pt 1):991–8.

Gender-specific cardiovascular adaptation due to circadian blood pressure variations in essential hypertension. Schmieder RE, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1160–6

Blood pressure reactivity and vascular disease: call off the funeral [letter; comment] Spence JD. **Am J Hypertens** 1997 May;10(5 Pt 1):582–3. Comment on: Am J Hypertens 1996 Sep;9(9):941–2.

Caffeine elevates blood pressure response to exercise in mild hypertensive men. Sung BH, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1184–8

Frequency shift in baroregulatory oscillation in borderline hypertensive subjects. Takalo R, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):500–4

Exaggerated blood pressure response to maximal exercise in endurance-trained individuals. Tanaka H, et al. **Am J Hypertens** 1996 Nov;9(11):1099–103

Blood pressure in people in Greenland assessed by measuring renovasculopathies of hypertension at autopsy. Tracy RE, et al. **Am J Hypertens** 1996 Jun;9(6):560–5

Sodium lithium countertransport and blood pressure. Longitudinal findings. Trevisan M, et al. **Am J Hypertens** 1996 Nov;9(11):1132–5

Does orthostatic testing have any role in the evaluation of the young subject with mild hypertension?: an insight from the HARVEST study. Vriz O, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):546–51

Albuminuria in diabetes mellitus: relation to ambulatory

versus office blood pressure and effects of cilazapril. Waeber B, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1220–7

A comparison of 24–h average blood pressures and blood pressure load following exercise. Wallace JP, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):728–34

Predominance of nocturnal sympathetic nervous activity in salt–sensitive normotensive subjects. Yo Y, et al. **Am J Hypertens** 1996 Aug;9(8):726–31

24 h blood pressure profile affects the left ventricle independently of the pressure level. A study in untreated essential hypertension diagnosed by office blood pressure readings. Zakopoulos N, et al. **Am J Hypertens** 1997 Feb; 10(2):168–74

The Rubenesque pregnancy: a progression towards higher blood pressure correlates with a measure of endogenous and exogenous insulin levels. Jovanovic–Peterson L, et al. **Am J Perinatol** 1997 Apr;14(4):181–6

Social status, social context, and arterial blood pressure. Dressler WW, et al. **Am J Phys Anthropol** 1997 Jan; 102(1):55–66

Elevated pressure stimulates protooncogene expression in isolated mesenteric arteries. Allen SP, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1517–23

Frequency domain characteristics of muscle sympathetic nerve activity in heart failure and healthy humans. Ando S, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R205–12

Role of adrenoceptors in the hypertensive response to feeding in the conscious calf. Bowman EC, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R607–14

Synergistic vascular effects of dietary sodium supplementation and angiotensin II administration. Csiky B, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1275–82

Deriving respiration from pulse wave: a new signal–processing technique. De Meersman RE, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1672–5

The persistent effect of long–term enalapril on pressure natriuresis in spontaneously hypertensive rats. Dukacz SA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F104–12

Mechanisms in the pressor effects of hepatic portal venous fatty acid infusion. Grekin RJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R324–30

Pressure natriuresis following acute and chronic inhibition of nitric oxide synthase in rats. Guarasci GR, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R469–78

NMDA receptor blockade in cat dorsal horn blunts reflex pressor response to muscle contraction and stretch. Hand GA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H500–8

Imaging of VMS activity during blood pressure challenges in awake and anesthetized goats. Harper RM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R182–91

Converting enzyme inhibitors cause pressure–independent resetting of baroreflex control of sympathetic outflow. Heesch CM, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R728–37

Medullary pathways mediating depressor responses from Na(+)–sensitive sites in nucleus of the solitary tract. Hochstenbach SL, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R126–33

Sympathoexcitatory and pressor responses to increased brain sodium and ouabain are mediated via brain ANG II. Huang BS, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H275–80

Neural arc of baroreflex optimizes dynamic pressure regulation in achieving both stability and quickness. Ikeda Y, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H882–90

Heme oxygenase substrates acutely lower blood pressure in hypertensive rats. Johnson RA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1132–8

Vasopressin and renin–angiotensin maintain arterial pressure during PEEP in nonexpanded, conscious dogs. Kaczmarczyk G, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1396–402

Role of NO on vasopressin and oxytocin release and blood pressure responses during osmotic stimulation in rats. Kadekaro M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1024–30

Effects of ventrolateral medullary AMPA–receptor antagonism on pressor response during muscle contraction. Kobayashi T, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2774–81

Selective activation of vasomotor component of SAP spectrum by nucleus reticularis ventrolateralis in rats. Kuo TB, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H485–92

Transfer function analysis of ventilatory influence on systemic arterial pressure in the rat. Kuo TB, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2108–15

Indicial functions of arterial remodeling in response to locally altered blood pressure. Liu SQ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1323–33

Evidence that centrally released arginine vasopressin is involved in central pressor action of angiotensin II. Loń S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H167–73

Medullary blood flow responses to changes in arterial pressure in canine kidney. Majid DS, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F833–8

Vector autoregressive modeling for analyzing feedback regulation between heart rate and blood pressure. Matsukawa S, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H478–86

Inhibition of NO synthesis does not potentiate dynamic cardiovascular response to sympathetic nerve activity. Miyano H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H38–43

Endogenous nitric oxide buffers blood pressure variability between 0.2 and 0.6 Hz in the conscious rat. Nafz B, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H632–7

Flow versus pressure in the control of renin release in conscious dogs. Nafz B, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F200–5

Role of cardiac output in mediating arterial blood pressure oscillations. O'Leary DS, et al. **Am J Physiol** 1996 Sep; 271(3 Pt 2):R641–6

Kidneys from normotensive donors lower blood pressure in young transplanted spontaneously hypertensive rats. Patschan O, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R175–80

Contribution of humoral systems to the short–term variability of blood pressure after severe hemorrhage. Ponchon P, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R58–69

Components of methacholine–initiated conducted vasodilation are unaffected by arteriolar pressure. Rivers RJ. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2895–901

Analysis of heart rate–based control of arterial blood pressure. Rose WC, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H812–22

Modulation of baroreflex sensitivity and spectral power of blood pressure by heat stress and aging. Stauss HM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H776–84

Age–related changes in the pressure diuresis and natriuresis response. Vargas F, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R578–82

Endothelial modulation of pH–dependent pressor response in isolated perfused rabbit lungs. Yamaguchi K, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H252–8

Pressure–heart rate relationship in intact and after stepwise elimination of three major baroreflex loops in dogs. Behnia R, et al. **Anesth Analg** 1996 Nov;83(5):965–74

An algorithm for assessing intraoperative mean arterial pressure lability. Reich DL, et al. **Anesthesiology** 1997 Jul; 87(1):156–61

Ambulatory–determined 24–hour blood pressure in mild hypertensives and in normotensives. Fariello R, et al. **Angiology** 1996 Oct;47(10):957–62

Modelling the associations of BMI physical activity and diet with arterial blood pressure: some results from the Allied Dunbar National Fitness Survey. Nevill AM, et al. **Ann Hum Biol** 1997 May–Jun;24(3):229–47

Vascular mechanisms of blood pressure rhythms. Casiglia E. **Ann N Y Acad Sci** 1996 Aug 15;783:84–94 (33 ref.)

Relationships of the circadian rhythms of thrombotic, ischemic, hemorrhagic, and arrhythmic events to blood pressure rhythms. Manfredini R, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:141–58 (183 ref.)

Aging and blood pressure rhythms. O'Brien E. **Ann N Y Acad Sci** 1996 Aug 15;783:186–203 (81 ref.)

Neural cardiovascular regulation and 24–hour blood pressure and heart rate variability. Parati G, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:47–63 (54 ref.)

Behavioral influences on diurnal blood pressure rhythms. Pickering TG, et al. **Ann N Y Acad Sci** 1996 Aug 15; 783:132–40 (43 ref.)

Renal hemodynamic mechanisms of blood pressure rhythms. Pons M, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:95–112 (66 ref.)

Endocrine mechanisms of blood pressure rhythms. Portaluppi F, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:113–31 (195 ref.)

Temporal blood pressure patterns in children. Portman RJ, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:227–41 (56 ref.)

Urinary kallikrein activity during rat pregnancy. Salas SP, et al. **Arch Biol Med Exp (Santiago)** 1987;20(3–4):305–9

Assessment of spontaneous baroreflex sensitivity in neonates. Drouin E, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F108–12

A meta–analytical approach to the pooling of blood pressure values in children. Nuutinen M, et al. **Arctic Med Res** 1996 Jul;55(3):107–17

Blood pressure variability. Importance in research and in clinical hypertension. Parati G, et al. **Arq Bras Cardiol** 1996 Aug;67(2):131–3 (28 ref.)

Hemodynamic effects of cardiomyoplasty in an experimental model of acute heart failure and atrial fibrillation. Cabrera Fischer EI, et al. **Artif Organs** 1996 Nov;20(11):1215–9

Subchronic use of the St. Jude centrifugal pump as a mechanical assist device in calves. Curtis J, et al. **Artif Organs** 1996 Jun;20(6):662–5

The optimal tidal volume delivered by ventilator after pulmonary resection: its effect on cardiopulmonary hemodynamics. Lee JM, et al. **Artif Organs** 1996 Dec; 20(12):1282–6

Total artificial heart using neural and fuzzy controller. Lee M, et al. **Artif Organs** 1996 Nov;20(11):1220–6

Numerical simulation of nonpulsatile left ventricular bypass. Mitsui N, et al. **Artif Organs** 1996 Jun;20(6):632–6

Effects of one year of hemodialysis on weight and blood pressure in 434 patients. Salem MM, et al. **Artif Organs** 1997 May;21(5):402–4

Renal circulation and cellular metabolism during left ventricular assisted circulation: comparison study of pulsatile and nonpulsatile assists. Sezai A, et al. **Artif Organs** 1997 Jul;21(7):830–5

Extracting 1/f fluctuation from the arterial blood pressure of an artificial heart. Yambe T, et al. **Artif Organs** 1996 Jul;20(7):777–82

Longitudinal studies of blood pressure in children. Li L, et al. **Asia Pac J Public Health** 1995;8(2):130–3

Ambulatory blood pressure monitoring in clinically healthy subjects adapted to living in Antarctica. Cugini P, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):795–801

Controlled evaluation of thermal biofeedback in treatment of elevated blood pressure in unmedicated mild hypertension. Blanchard EB, et al. **Biofeedback Self Regul** 1996 Jun;21(2):167–90

Good news—bad press: applied psychophysiology in cardiovascular disorders. McGrady A. **Biofeedback Self Regul** 1996 Dec;21(4):335–46

Continuous wavelet transform of aortic pressure oscillations in anesthetized dogs: effects of 45 degrees tilting. Jiménez RF, et al. **Biol Res** 1997;30(2):53–64

Flow–pressure drop measurement and calculation in a tapered femoral artery of a dog. Banerjee RK, et al. **Biorheology** 1995 Nov–Dec;32(6):655–84

Smoking affects blood pressure [editorial] Hansson L, et al. **Blood Press** 1996 Mar;5(2):68

Twenty–four–hour ambulatory blood pressure and vasoactive hormones in valvular aortic disease. Jensen LW, et al. **Blood Press** 1996 Sep;5(5):292–9

The enigmatic association of birth weight with blood pressure [editorial] Jern S, et al. **Blood Press** 1997 Jul;6(4):196

Intra–arterial blood pressure during exercise and left ventricular indices in normotension and borderline and mild hypertension. Majahalme S, et al. **Blood Press** 1997 Jan; 6(1):5–12

How smoking affects blood pressure. Omvik P. **Blood Press** 1996 Mar;5(2):71–7 (69 ref.)

Effect of short term graded withdrawal of nasal continuous positive airway pressure on systemic blood pressure in patients with obstructive sleep apnoea. Stradling JR, et al. **Blood Press** 1996 Jul;5(4):234–40

Smoking and blood pressure [editorial] Wilhelmsen L. **Blood Press** 1996 Mar;5(2):69–70

Comparison of diurnal systolic blood pressure change as defined by wrist actigraphy, fixed time periods and cusum. Youde JH, et al. **Blood Press** 1996 Jul;5(4):216–21

Effect of low dietary calcium intake on blood pressure and pressure natriuresis response in rats: a possible role of the renin–angiotensin system. Yuasa S, et al. **Blood Press** 1996 Mar;5(2):121–7

Insulin as a pressor agent: effects of 'physiological' insulin concentrations on finger blood pressure. O'Callaghan CJ, et al. **Blood Press Suppl** 1996;1:18–22

Ambulatory blood pressure and insulinaemia in different clinical conditions. Rynkiewicz A, et al. **Blood Press Suppl** 1996;1:67–71

Intersalt data. Data linking sodium intake to subsequent morbid and fatal outcomes must be studied [letter] Alderman M. **BMJ** 1997 Aug 23;315(7106):484–5; discussion 487

Long–term effect of calcium supplementation during pregnancy on the blood pressure of offspring: follow up of a randomised controlled trial. Belizán JM, et al. **BMJ** 1997 Aug 2;315(7103):281–5

Intersalt data. Correction for regression dilution bias in Intersalt study was misleading [letter] Davey Smith G, et al. **BMJ** 1997 Aug 23;315(7106):485–6; discussion 487

Intersalt data. Epidemiological studies should be designed to reduce correction needed for measurement error to a minimum [letter] Day NE. **BMJ** 1997 Aug 23; 315(7106):485; discussion 487

Intersalt data. Collaborative efforts must be made to reduce sodium in diet [letter] Grimm RH. **BMJ** 1997 Aug 23; 315(7106):487

Size at birth, maternal nutritional status in pregnancy, and blood pressure at age 17: population based analysis. Laor A, et al. **BMJ** 1997 Aug 23;315(7106):449–53

Intersalt data. Cross cultural studies such as Intersalt study cannot be used to infer causality [letter] Le Fanu J. **BMJ** 1997 Aug 23;315(7106):484; discussion 487

Intersalt data sodium contents of restaurant foods in United States are high [letter] Liebman BF, et al. **BMJ** 1997 Aug 23;315(7106):488

Intersalt data. Conclusions drawn in paper "revisiting" Intersalt data are of questionable validity [letter] Macnair A. **BMJ** 1997 Aug 23;315(7106):485; discussion 487

Intersalt data. Science demands data sharing [letter] Rennolls K. **BMJ** 1997 Aug 23;315(7106):486–7

Blood pressure and mortality in healthy old people: the r shaped curve. Starr JM, et al. **BMJ** 1996 Nov 16; 313(7067):1243–4

Size at birth and blood pressure: cross sectional study in 8–11 year old children [see comments] Taylor SJ, et al. **BMJ** 1997 Feb 15;314(7079):475–80. Comment in: BMJ 1997 May 10;314(7091):1416.

Intersalt data. Slow decremental change in dietary sodium load in whole populations is needed [letter] Watt G, et al. **BMJ** 1997 Aug 23;315(7106):486; discussion 487

Hormonal responses and cardiac filling pressures in head–up or head–down position and pneumoperitoneum in patients undergoing operative laparoscopy. Hirvonen EA, et al. **Br J Anaesth** 1997 Feb;78(2):128–33

Low–sodium diet in pregnancy: effects on blood pressure and maternal nutritional status. van der Maten GD, et al. **Br J Nutr** 1997 May;77(5):703–20

Automated blood pressure measurement as a predictor of proteinuric pre–eclampsia. Halligan AW, et al. **Br J Obstet Gynaecol** 1997 May;104(5):559–62

Peak systolic over protodiastolic ratio as an objective

substitute for the uterine artery notch. Irion O, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):993–8

Early effect of carotid endarterectomy on arterial blood pressure measured with an ambulatory monitor. Dodds SR, et al. **Br J Surg** 1997 Aug;84(8):1104–6

Significant association between simple renal cysts and arterial blood pressure [see comments] Pedersen JF, et al. **Br J Urol** 1997 May;79(5):688–91. Comment in: Br J Urol 1997 May;79(5):691–2.

Properties of a projection pathway from the medial preoptic nucleus to the midbrain periaqueductal gray of the rat and its role in the regulation of cardiovascular function. Behbehani MM, et al. **Brain Res** 1996 Nov 18; 740(1–2):141–50

Cardiovascular response to stress after middle cerebral artery occlusion in rats. Cheung RT, et al. **Brain Res** 1997 Feb 7;747(2):181–8

Cutaneous blood flow increases in the rat hindpaw during dorsal column stimulation. Croom JE, et al. **Brain Res** 1996 Jul 29;728(2):281–6

Possible participation of spinal nitric oxide in the control of the blood pressure in anesthetized rats. del Carmen García M, et al. **Brain Res** 1997 Aug 1;764(1–2):67–74

Nucleus ambiguus inhibits activity of cardiovascular units in RVLM. McKitrick DJ, et al. **Brain Res** 1996 Dec 2; 742(1–2):203–10

Estrous cycle phase variations in visceromotor and cardiovascular responses to colonic distension in the anesthetized rat. Sapsed-Byrne S, et al. **Brain Res** 1996 Dec 2;742(1–2):10–6

Asymmetrical regulation of blood pressure in the rat medulla. Shiozaki T, et al. **Brain Res** 1997 Apr 25;755(1):170–4

Central integration of the Bezold–Jarish reflex in the cat. Vayssettes-Courchay C, et al. **Brain Res** 1997 Jan 9; 744(2):272–8

The pressor reflex evoked by static contraction: neurochemistry at the site of the first synapse. Wilson LB, et al. **Brain Res Brain Res Rev** 1997 Apr;23(3):196–209 (120 ref.)

Differential responses in adrenal and renal nerves to CNS osmotic stimulation. Bealer SL, et al. **Brain Res Bull** 1996; 39(4):205–9

Role of different subtypes of adrenoceptors in pressor responses to catecholamines released from sympathetic nerve endings. Dóda M. **Brain Res Bull** 1997;42(1):51–7

Fluid percussion brain injury in the developing and adult rat: a comparative study of mortality, morphology, intracranial pressure and mean arterial blood pressure. Prins ML, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):272–82

Changes in blood volume and pressure induce c-fos expression in brainstem neurons that project to the paraventricular nucleus of the hypothalamus. Krukoff TL, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):99–108

Is the short-term modulation of heart rate in teleost fish physiologically significant? Assessment by spectral analysis techniques. Altimiras J, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1197–206

Effect of an aerobic exercise program on blood pressure and catecholamines in normotensive and hypertensive subjects [published erratum appears in Braz J Med Biol Res 1996 Nov;29(11):1579] Arida RM, et al. **Braz J Med Biol Res** 1996 May;29(5):633–7

The coronary circulation: a fish perspective. Axelsson M. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1167–77 (38 ref.)

Cardiovascular measurements in animals in the milligram range. Burggren W, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1291–305

Regulation of acid–base status in ectothermic vertebrates: the consequences for oxygen pressures in lung gas and arterial blood. Glass ML, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1161–6

Blood pressure control by the renin–angiotensin system and its interaction with the sympathetic nervous system in fish. Platzack B. **Braz J Med Biol Res** 1995 Nov–Dec; 28(11–12):1227–31 (31 ref.)

The hypertensive response to intubation. Do researchers acknowledge previous work? Smith AJ, et al. **Can J Anaesth** 1997 Jan;44(1):9–13

Hemodynamic strategies in blood pressure regulation during orthostatic challenge in women. Culham TL, et al. **Can J Appl Physiol** 1997 Aug;22(4):351–67

Left ventricular diastolic function in young men with high normal blood pressure. Escudero E, et al. **Can J Cardiol** 1996 Oct;12(10):959–64

Comparative effects of acute volume expansion and short-term training on thermal and cardiovascular responses to prolonged exercise. Helyar R, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1087–94

Exercise training in mild hypertension: effects on blood pressure, left ventricular mass and coagulation factor VII and fibrinogen. Zanettini R, et al. **Cardiology** 1997 Sep–Oct; 88(5):468–73

Unusual respiratory variation in right ventricular pressure following balloon pulmonary valvuloplasty in a pregnant patient [letter] Shah C, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):227–8

Pressor effects elicited from the periaqueductal grey, and dorsal and ventrolateral medulla in cats are independent from cerebellar mechanisms. Chai CY, et al. **Chin J Physiol** 1995;38(4):255–61

Comparison of five measures derived from in vivo pulmonary vascular pressure–flow curves. Lai YL, et al. **Chin J Physiol** 1997;40(1):45–9

Variability in the period of the blood pressure circadian rhythm in human beings. Abitbol G, et al. **Chronobiol Int** 1997 May;14(3):307–17

Administration-time-dependent effects of diltiazem on the 24-hour blood pressure profile of essential hypertension patients. Kohno I, et al. **Chronobiol Int** 1997 Jan;14(1):71–84

Age-related differences of blood pressure profile in essential hypertension. Scorzoni D, et al. **Chronobiol Int** 1997 Jul; 14(4):397–407

Hemodynamic patterns of age-related changes in blood pressure. The Framingham Heart Study. Franklin SS, et al. **Circulation** 1997 Jul 1;96(1):308–15

Precapillary servo control of blood pressure and postcapillary adjustment of flow to tissue metabolic status. A new paradigm for local perfusion regulation. Groebe K. **Circulation** 1996 Oct 15;94(8):1876–85

Genetic regulation of hemodynamic variables during dynamic exercise. The MCV twin study. van den Bree MB, et al. **Circulation** 1996 Oct 15;94(8):1864–9

Cardiovascular parameters: sensitivity to detect autonomic dysfunction and influence of age and sex in normal subjects. Braune S, et al. **Clin Auton Res** 1996 Feb;6(1):3–15

Reproducibility of the cold pressor test: studies in normal subjects. Fasano ML, et al. **Clin Auton Res** 1996 Oct; 6(5):249–53

Head-up tilt table test: how far and how long? Khurana RK, et al. **Clin Auton Res** 1996 Dec;6(6):335–41

Estimation of baroreflex sensitivity using transfer function analysis: normal values and theoretical considerations. Linden D, et al. **Clin Auton Res** 1996 Jun;6(3):157–61

Reliability of blood pressure determination with the Finapres with altered physiological states or pharmacodynamic conditions. McAuley D, et al. **Clin Auton Res** 1997 Aug; 7(4):179–84

Blood pressure and heart rate variability in autonomic disorders: a critical review. Omboni S, et al. **Clin Auton Res** 1996 Jun;6(3):171–82 (122 ref.)

Effect of meal size on post-prandial blood pressure and on postural hypotension in primary autonomic failure. Puvi-Rajasingham S, et al. **Clin Auton Res** 1996 Apr; 6(2):111–4

Cardiovascular adjustments and pain during repeated cold pressor test. Stancák A Jr, et al. **Clin Auton Res** 1996 Apr; 6(2):83–9

Spectral analysis of blood pressure and heart rate, catecholamine and neuropeptide Y plasma levels in a new model of neurogenic orthostatic hypotension in dog. Verwaerde P, et al. **Clin Auton Res** 1996 Apr;6(2):75–82

Ambulatory blood pressure profiles and plasminogen activator inhibitor (PAI-1) activity in lean women with and without the polycystic ovary syndrome. Sampson M, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):623–9

Influence of gender on the level of pulse pressure: the role of large conduit arteries. Asmar R, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):793–811

Selective effect of high arterial pressure in hypertension upon inhibition of cGMP versus cAMP mediated vascular relaxation. Bell DR, et al. **Clin Exp Hypertens** 1996 Aug; 18(6):773–91

The influence of blood pressure on intracellular Ca2+ content in erythrocytes: effects of cadmium chloride and nifedipine. Erkiliç AB, et al. **Clin Exp Hypertens** 1996 Jan; 18(1):77–86

Depletion of resistance vessel polyamines attenuates angiotensin II induced blood pressure rise in rats. Ibrahim J, et al. **Clin Exp Hypertens** 1996 Aug;18(6):811–30

Analysis of circadian variation of blood pressure and heart rate in dexamethasone-induced hypertensive rats. Kim CY, et al. **Clin Exp Hypertens** 1996 Jan;18(1):65–76

The relationship of blood pressure to cardiac hypertrophy: experimental studies in rats. Morgan T, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):827–41

Central interactions between noradrenaline and neuropeptide Y in the rat: implications for blood pressure control. Morris MJ, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):619–30

The role of the hypothalamic-pituitary-adrenal (HPA) axis in the regulation of blood pressure. Phoon RK, et al. **Clin Exp Hypertens** 1997 May;19(4):417–30

Attenuation of intrinsic active tone by endothelium-derived nitric oxide in aortae of spontaneously hypertensive rats with different levels of blood pressure. Sunano S, et al. **Clin Exp Hypertens** 1996 Aug;18(6):873–90

Evidence against a central pressor mechanism for adrenocortical steroid hypertension in sheep. Tresham JJ, et al. **Clin Exp Hypertens** 1996 Aug;18(6):831–49

Interactions between angiotensin II and the sympathetic nervous system in the the long-term control of arterial pressure. Brooks VL. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):83–90 (86 ref.)

Determinants of change in blood pressure during S.W.E.A.T.: the sedentary women exercise adherence trial. Cox KL, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):567–9

Nitric oxide in the mediation of pressure natriuresis. Majid DS, et al. **Clin Exp Pharmacol Physiol** 1997 Aug; 24(8):595–9

The sympathetic nervous system and long-term regulation of arterial pressure: what are the critical questions? Osborn JW. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):68–71 (15 ref.)

Effect of coffee and tea drinking on postprandial hypotension in older men and women. Rakic V, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):559–63

Blood pressure regulation in baroreceptor-denervated rats. Sved AF, et al. **Clin Exp Pharmacol Physiol** 1997 Jan; 24(1):77–82 (55 ref.)

Reproducibility of conventional and power spectral measurements of cardiovascular sympathetic activation in normal subjects. Taverner D, et al. **Clin Exp Pharmacol Physiol** 1996 Sep;23(9):804–6

Genetic variants of proteins from the renin angiotensin system are associated with pressure load cardiac hypertrophy. Wong KK, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):587–90

Role of nitric oxide in the control of blood pressure in young and adult spontaneously hypertensive rats. Akiba Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S142–3

Effect of haemorrhage on the power of low frequency blood pressure fluctuations in young spontaneously hypertensive rats. Eliash S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S112–3

Antihypertensive effects, determined by a telemetry method, of trichloromethiazide and 7-O-ethylfangchinoline, a derivative of tetrandrine, in spontaneously hypertensive rats. Kawashima K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S300–1

Blood pressure-related changes of endothelium-dependent relaxation in the aorta from SHRSP at developmental ages of hypertension. Tomita T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S139–41

Role of baroreflex and central alpha2-adrenergic receptor systems in the diurnal variation of blood pressure and heart rate in normotensive and hypertensive rats. Yoneda Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S64–6

The role of blood rheology in regulating blood pressure. London M. **Clin Hemorheol Microcirc** 1997 Mar–Apr; 17(2):93–106 (58 ref.)

New evidence for involvement of blood rheological disorders in rise of peripheral resistance in essential hypertension. Mchedlishvili G, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb;17(1):31–9

Aerobic exercise and normotensive adults: a meta-analysis. Suskin N, et al. **Clin J Sport Med** 1996 Jul;6(3):213

Relationship between blood pressure and renin, angiotensin II and atrial natriuretic factor after renal transplantation. Hestin D, et al. **Clin Nephrol** 1997 Aug;48(2):98–103

Importance of volume factors in dialysis related hypertension. Lins RL, et al. **Clin Nephrol** 1997 Jul;48(1):29–33

Changes in blood pressure and renal function following subtotal parathyroidectomy in renal transplant patients presenting with persistent hypercalcemic hyperparathyroidism. Rostaing L, et al. **Clin Nephrol** 1997 Apr;47(4):248–55

Pharmacokinetic profile of cyclosporine A after conversion to Sandimmun Optoral: influence on ambulatory blood pressure in renal transplant patients. Schwertfeger E, et al. **Clin Nephrol** 1996 May;45(5):349–51

Continuous non-invasive measurement of mean blood pressure in fingers by volume-clamp and differential oscillometric method. Jagomägi K, et al. **Clin Physiol** 1996 Sep;16(5):551–60

Artery blood pressure oscillation after active standing up: an indicator of sympathetic function in diabetic patients. Lindqvist A, et al. **Clin Physiol** 1997 Mar;17(2):159–69

Physiological characteristics and hormonal profile of young normotensive men with exaggerated blood pressure response to exercise. Nazar K, et al. **Clin Physiol** 1997 Jan; 17(1):1–18

A new non-invasive method using pulse oximetry for the assessment of arterial toe pressure. Samuelsson P, et al. **Clin Physiol** 1996 Jul;16(4):463–7

Non-invasive evaluation of sympathovagal balance in athletes by time and frequency domain analyses of heart rate and blood pressure variability. Uusitalo AL, et al. **Clin Physiol** 1996 Nov;16(6):575–88

Repeatability of spectral components of short-term blood pressure and heart rate variability during acute sympathetic activation in healthy young male subjects. Cloarec-Blanchard L, et al. **Clin Sci (Colch)** 1997 Jul; 93(1):21–8

Change in blood pressure during altered sodium intake is not associated with calciotropic hormone level. Ozono R, et al. **Clin Sci (Colch)** 1997 Aug;93(2):153–7

Sex differences in correlates of steady state and pulsatile component of blood pressure. Scuteri A, et al. **Clin Sci (Colch)** 1996 Oct;91(4):385–9

The role of pressure pulsatility in the carotid baroreflex control: a computer simulation study. Ursino M, et al. **Comput Biol Med** 1996 Jul;26(4):297–314

Analysis of pressurized resistance vessel diameter changes with a low cost digital image processing device. Fischer JG, et al. **Comput Methods Programs Biomed** 1996 Jun; 50(1):23–30

The alarm reaction to blood pressure measurement in dialysis patients. Tripepi G, et al. **Contrib Nephrol** 1996;119:161–4

Contrast echocardiography in coronary artery diseased patients: effect of systemic and pulmonary artery pressures on left heart opacification after intravenous injection of Albunex. Geny B, et al. **Coron Artery Dis** 1997 Feb; 8(2):77–81

Effects of varying levels of positive end-expiratory pressure on intracranial pressure and cerebral perfusion pressure.

McGuire G, et al. **Crit Care Med** 1997 Jun;25(6):1059–62

Physiological regulation of blood pressure and kidney function by guanylyl cyclase isoforms. Kishimoto I, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):58–63 (46 ref.)

The circadian pattern of blood pressure: cardiovascular risk and therapeutic opportunities. Neutel JM, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):250–6 (52 ref.)

The role of exercise in the control of hypertension and cardiovascular risk. Papademetriou V, et al. **Curr Opin Nephrol Hypertens** 1996 Sep;5(5):459–62 (25 ref.)

Weight, blood pressure, osmolarity, and glucose levels across various stages of Alzheimer's disease and vascular dementia. Hogan DB, et al. **Dement Geriatr Cogn Disord** 1997 May–Jun;8(3):147–51

Diurnal variation of blood pressure in adolescents with type 1 diabetes: dippers and non-dippers. Khan N, et al. **Diabet Med** 1996 Jun;13(6):531–5

Diurnal variation in blood pressure in insulin-dependent diabetic smokers and non-smokers with and without microalbuminuria. Sinha RN, et al. **Diabet Med** 1997 Apr; 14(4):291–5

Pain intensity and blood pressure reactions during a cold pressor test in IDDM patients. Luft D, et al. **Diabetes Care** 1996 Jul;19(7):722–5

Glomerular hyperfiltration is associated with blood pressure abnormalities in normotensive normoalbuminuric IDDM patients. Pecis M, et al. **Diabetes Care** 1997 Aug; 20(8):1329–33

Elevated ambulatory blood pressure in microalbuminuric IDDM patients is inversely associated with renal plasma flow. A compensatory mechanism? Poulsen PL, et al. **Diabetes Care** 1997 Mar;20(3):429–32

Day-night blood pressure variation in normotensive and hypertensive NIDDM patients with asymptomatic autonomic neuropathy. Jermendy G, et al. **Diabetes Res Clin Pract** 1996 Oct;34(2):107–14

Hypertension in Diabetes Study IV. Therapeutic requirements to maintain tight blood pressure control [published erratum appears in Diabetologia 1997 Mar;40(3):366] **Diabetologia** 1996 Dec;39(12):1554–61

Appropriate Blood Pressure Control in NIDDM (ABCD) Trial. Schrier RW, et al. **Diabetologia** 1996 Dec; 39(12):1646–54

Correlation of an exercise-induced increase in systemic circulation with neural retinal function in humans. Kergoat H, et al. **Doc Ophthalmol** 1996–97;92(3):145–57

Early changes in plasma brain and atrial natriuretic peptides in premature infants: correlation with pulmonary arterial pressure. Ikemoto Y, et al. **Early Hum Dev** 1996 Sep 20; 46(1–2):55–62

Safety of rapid-rate transcranial magnetic stimulation: heart rate and blood pressure changes. Foerster A, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 104(3):207–12

Skin tone, hostility, and blood pressure in young normotensive African Americans. Ernst FA, et al. **Ethn Dis** 1997 Winter;7(1):34–40

Hemodynamic responses associated with post-exercise hypotension in normotensive black males. Headley SA, et al. **Ethn Dis** 1996 Winter–Spring;6(1–2):190–201

Arm-leg pressure gradients on late follow-up after coarctation repair. Possible causes and implications. Guenthard J, et al. **Eur Heart J** 1996 Oct;17(10):1572–5

Coronary velocity pressure tracings [letter; comment] Seiler C. **Eur Heart J** 1997 Apr;18(4):697–9. Comment on: Eur Heart J 1995 Oct;16 Suppl J:53–9.

Sympathetic nerve regulation of cochlear blood flow during increases in blood pressure in humans. Degoute CS, et al. **Eur J Appl Physiol** 1997;75(4):326–32

Arterial blood pressure and forearm vascular conductance responses to sustained and rhythmic isometric exercise and arterial occlusion in trained rock climbers and untrained sedentary subjects. Ferguson RA, et al. **Eur J Appl Physiol** 1997;76(2):174–80

Continuous measurement of blood pressure, heart rate and left ventricular performance during and after isometric exercise in head-out water immersion. Fujisawa H, et al. **Eur J Appl Physiol** 1996;72(5–6):548–52

Effects of isokinetic, isotonic and isometric submaximal exercise on heart rate and blood pressure. Iellamo F, et al. **Eur J Appl Physiol** 1997;75(2):89–96

Resistance exercise training and the orthostatic response. McCarthy JP, et al. **Eur J Appl Physiol** 1997;76(1):32–40

Cerebral blood flow velocity response induced by a 70-hPa Valsalva manoeuvre associated with normo- and hypergravity in humans. Ossard G, et al. **Eur J Appl Physiol** 1996;72(5–6):502–8

Intra- and extracranial artery blood velocity during a sudden blood pressure decrease in humans. Savin E, et al. **Eur J Appl Physiol** 1997;76(3):289–93

Cold induced vasodilatation and cardiovascular responses in humans during cold water immersion of various upper limb areas. Sendowski I, et al. **Eur J Appl Physiol** 1997; 75(6):471–7

Diurnal blood pressure profile, autonomic neuropathy and nephropathy in diabetes. Hansen KW. **Eur J Endocrinol** 1997 Jan;136(1):35–6

Altered blood pressure profile, autonomic neuropathy and nephropathy in insulin-dependent diabetic patients. Monteagudo PT, et al. **Eur J Endocrinol** 1996 Dec; 135(6):683–8

Release of serotonin in the rat locus coeruleus: effects of cardiovascular, stressful and noxious stimuli. Singewald N, et al. **Eur J Neurosci** 1997 Mar;9(3):556–62

Simultaneous 24-hour monitoring of intraocular pressure and arterial blood pressure in patients with progressive and non-progressive primary open-angle glaucoma. Detry M, et al. **Eur J Ophthalmol** 1996 Jul–Sep;6(3):273–8

Contribution of the renin-angiotensin and kallikrein-kinin systems to short-term variability of blood pressure in two-kidney, one-clip hypertensive rats. Ponchon P, et al. **Eur J Pharmacol** 1996 Feb 15;297(1–2):61–70

Blood pressure after bilateral carotid surgery [letter; comment] Harper R, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):513–4. Comment on: Eur J Vasc Endovasc Surg 1995 Apr;9(3):346–8.

Blood flow rate during orthostatic pressure changes in the pulp skin of the first toe. Midttun M, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):278–84

Effect of walking distance on the change in ankle-brachial pressure index in patients with intermittent claudication. Sakurai T, et al. **Eur J Vasc Endovasc Surg** 1997 May; 13(5):486–90

Blood pressure changes after extracorporeal shock wave nephrolithotripsy: prediction by intrarenal resistive index. Knapp R, et al. **Eur Radiol** 1996;6(5):665–9

Baroreflex regulation of blood pressure during dynamic exercise. Raven PB, et al. **Exerc Sport Sci Rev** 1997; 25:365–89 (84 ref.)

Pressor response elicited by nose-up vestibular stimulation in cats. Woodring SF, et al. **Exp Brain Res** 1997 Jan; 113(1):165–8

Vascular responses to stimulation of carotid, aortic and coronary artery baroreceptors with pulsatile and non-pulsatile pressures in anaesthetized dogs. McMahon NC, et al. **Exp Physiol** 1996 Nov;81(6):969–81

Effects of moderate hypothermia on baroreflex and pulmonary chemoreflex heart rate response in decerebrate ferrets. Zheng F, et al. **Exp Physiol** 1996 May;81(3):409–20

Heart rate and blood pressure variability in cardiac diseases: pharmacological implications. Cloarec-Blanchard L. **Fundam Clin Pharmacol** 1997;11(1):19–28 (98 ref.)

Effect of left ventricular pressure and volume overload on alpha-adrenoceptor activity in patients with rheumatic heart valvular disease. Dzimiri N, et al. **Gen Pharmacol** 1996 Apr;27(3):539–43

The relationship between socioeconomic status, hostility, and blood pressure reactions to mental stress in men: data from the Whitehall II study. Carroll D, et al. **Health Psychol** 1997 Mar;16(2):131–6

Changes in dorsal cochlear nucleus blood flow during noise exposure. Mandal A, et al. **Hear Res** 1997 Apr;106(1–2):1–8

Arterial waveforms: monitoring changes in configuration. Campbell B. **Heart Lung** 1997 May–Jun;26(3):204–14

Conicity index as a predictor of blood pressure levels, insulin and triglyceride concentrations of healthy premenopausal women. Mantzoros CS, et al. **Horm Metab Res** 1996 Jan; 28(1):32–4

Indirect assessment of glomerular capillary pressure from pressure-natriuresis relationship: comparison with direct measurements reported in rats. Kimura G, et al. **Hypertens Res** 1997 Jun;20(2):143–8

Myogenic tone attenuates pressure-induced gene expression in isolated small arteries. Allen SP, et al. **Hypertension** 1997 Aug;30(2 Pt 1):203–8

Congenic strains for the blood pressure quantitative trait locus on rat chromosome 2. Deng AY, et al. **Hypertension** 1997 Aug;30(2 Pt 1):199–202

Endogenous endothelin modulates blood pressure, plasma volume, and albumin escape after systemic nitric oxide blockade. Filep JG. **Hypertension** 1997 Jul;30(1 Pt 1):22–8

Pressor effects of endogenous opioid system during acute episodes of blood pressure increases in hypertensive patients. Fontana F, et al. **Hypertension** 1997 Jan;29(1 Pt 1):105–10

Cardiopulmonary baroreflex in NaCl-induced hypertension in borderline hypertensive rats. Grisk O, et al. **Hypertension** 1997 Jan;29(1 Pt 2):464–70

Blunted blood pressure response to central sympathoinhibition in normotensive blacks: increased importance of nonsympathetic factors in blood pressure maintenance in blacks. Lang CC, et al. **Hypertension** 1997 Aug;30(2 Pt 1):157–62

Influence of lifestyle, coping, and job stress on blood pressure in men and women. Lindquist TL, et al. **Hypertension** 1997 Jan;29(1 Pt 1):1–7

Pressure natriuresis and autoregulation of inner medullary blood flow in canine kidney. Majid DS, et al. **Hypertension** 1997 Jan;29(1 Pt 2):210–5

Nitric oxide and the regulation of blood pressure in the hypertension-prone and hypertension-resistant Sabra rat. Rees D, et al. **Hypertension** 1996 Sep;28(3):367–71

Nocturnal blood pressure fall on ambulatory monitoring in a large international database. The "Ad Hoc' Working Group. Staessen JA, et al. **Hypertension** 1997 Jan;29(1 Pt 1):30–9

Pressure wave propagation in arteries. A model with radial dilatation for simulating the behavior of a real artery. Wang YY, et al. **IEEE Eng Med Biol Mag** 1997 Jan–Feb; 16(1):51–6

Beta-adrenoceptor responsiveness of splenic macrophages in normotensive and hypertensive rats. Serio M, et al. **Immunopharmacol Immunotoxicol** 1996 May;18(2):247–65

Factors affecting the ability of the renal medulla to exert an antihypertensive function. Sušić D, et al. **Indian J Med Res** 1995 Aug;102:81–5

Association of haptoglobin types with arterial blood pressure [letter] Babu BV. **Indian J Physiol Pharmacol** 1997 Apr; 41(2):185–6

Rise in blood pressure during hemodialysis-ultrafiltration: a "paradoxical" phenomenon? [editorial] Dorhout Mees EJ. **Int J Artif Organs** 1996 Oct;19(10):569–70 (14 ref.)

The therapeutic significance of pulse reverse osmosis. Prior FG, et al. **Int J Artif Organs** 1996 Aug;19(8):487–92

Spectral analysis of hemodynamics during left ventricular assistance. Yambe T, et al. **Int J Artif Organs** 1996 Jun; 19(6):367–71

Clinical relevance of about-yearly changes in blood pressure and the environment. Halberg F, et al. **Int J Biometeorol** 1996 Nov;39(4):161–75 (150 ref.)

Changes in human blood pressure with season, age and solar cycles: a 26 year record. Portela A, et al. **Int J Biometeorol** 1996 Nov;39(4):176–81

Resting right ventricular function in patients with coronary artery disease: pressure volume analysis using conductance catheters. Bishop A, et al. **Int J Cardiol** 1997 Feb; 58(3):223–8

Salt intake and blood pressure in Nigerian hypertensive patients. Olubodun JO, et al. **Int J Cardiol** 1997 Apr 18; 59(2):185–8

Abnormal passive head-up tilt test in subjects with symptoms of anxiety power spectral analysis study of heart rate and blood pressure. Piccirillo G, et al. **Int J Cardiol** 1997 Jul 25;60(2):121–31

Sites of androgenic regulation of cavernosal blood pressure during penile erection in the rat. Mills TM, et al. **Int J Impot Res** 1996 Mar;8(1):29–34

Newly developed software for capillary blood pressure analysis in microcirculatory research. Hahn M, et al. **Int J Microcirc Clin Exp** 1996 May–Jun;16(3):129–36

Prediction of arterial "burst" activity and transitions between chaotic attractors with a multilayer perceptron optimized by a new stopping criterion. Stamatis N, et al. **Int J Neural Syst** 1996 Sep;7(4):417–28

A controlled study of the effects of the Transcendental Meditation program on cardiovascular reactivity and ambulatory blood pressure. Wenneberg SR, et al. **Int J Neurosci** 1997 Jan;89(1–2):15–28

Childhood obesity elevates blood pressure and total cholesterol independent of physical activity. McMurray RG, et al. **Int J Obes Relat Metab Disord** 1995 Dec; 19(12):881–6

Postprandial ambulatory blood pressure and heart rate effects in healthy elderly adults. Goldstein IB, et al. **Int J Psychophysiol** 1996 Feb–Mar;21(2–3):91–5

Relationships between children's cardiovascular stress responses and resting cardiovascular functioning 1 year later. Malpass D, et al. **Int J Psychophysiol** 1997 Feb; 25(2):139–44

Aortic and peripheral blood pressure during isometric and dynamic exercise. Blum V, et al. **Int J Sports Med** 1997 Jan;18(1):30–4

The pressor response to submaximal cycle ergometry while using aerodynamic handlebars. Heil DP. **Int J Sports Med** 1997 Jan;18(1):1–7

Nocturnal blood pressure and intraocular pressure measurement in glaucoma patients and healthy controls. Follmann P, et al. **Int Ophthalmol** 1996–97;20(1–3):83–7

New monitors of intravascular volume: a comparison of arterial pressure waveform analysis and the intrathoracic blood volume. Preisman S, et al. **Intensive Care Med** 1997 Jun;23(6):651–7

Blood pressure and heart rate dynamics during and after exercise in an unselected population. Sullivan PA, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):250–3

Long-term lowering of blood pressure after carotid and vertebrobasilar ischemic stroke. Guidotti M, et al. **Ital J Neurol Sci** 1996 Apr;17(2):153–5

Comparison of the indirect oscillometric and direct arterial methods for blood pressure measurements in anesthetized dogs. Meurs KM, et al. **J Am Anim Hosp Assoc** 1996 Nov–Dec;32(6):471–5

Evaluation of diastolic filling of left ventricle in health and disease: Doppler echocardiography is the clinician's Rosetta Stone. Nishimura RA, et al. **J Am Coll Cardiol** 1997 Jul;30(1):8–18 (93 ref.)

J-curve relation between blood pressure and decline in cognitive function in older people living in community, Japan [letter] Okumiya K, et al. **J Am Geriatr Soc** 1997 Aug;45(8):1032–3

Doppler echocardiographic evaluation of left ventricular end-diastolic pressure in patients with coronary artery disease. Cecconi M, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):241–50

Short- and long-term variability of echocardiographic stress-velocity indexes of cardiac function in a pediatric population. Sandor GG, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):251–6

Short-term effects of protein intake, blood pressure, and antihypertensive therapy on glomerular filtration rate in the Modification of Diet in Renal Disease Study. **J Am Soc Nephrol** 1996 Oct;7(10):2097–109

Lifelong angiotensin-converting enzyme inhibition, pressure natriuresis, and renin-angiotensin system gene expression in transgenic (mRen-2)27 rats. Lippoldt A, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2119–29

1996 Homer Smith Award Lecture. Cum grano salis: the epithelial sodium channel and the control of blood pressure. Rossier BC. **J Am Soc Nephrol** 1997 Jun;8(6):980–92 (81 ref.)

Ambulatory blood pressure monitoring: coming of age in nephrology. Townsend RR, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2279–87 (47 ref.)

Comparison of blood pressure measurements obtained in dogs by use of indirect oscillometry in a veterinary clinic versus at home. Kallet AJ, et al. **J Am Vet Med Assoc** 1997 Mar 1;210(5):651–4

Acute blood pressure elevation during repetitive hypocapnic and eucapnic hypoxia in rats. Bao G, et al. **J Appl Physiol** 1997 Apr;82(4):1071–8

Blood pressure response to chronic episodic hypoxia: role of the sympathetic nervous system. Bao G, et al. **J Appl Physiol** 1997 Jul;83(1):95–101

Cardiorespiratory interactions during fixed-pace resistive breathing. Blaber AP, et al. **J Appl Physiol** 1996 May; 80(5):1618–26

Hypercapnic blood pressure response is greater during the luteal phase of the menstrual cycle. Edwards N, et al. **J Appl Physiol** 1996 Nov;81(5):2142–6

Effect of episodic eucapnic and hypocapnic hypoxia on systemic blood pressure in hypertension-prone rats. Fletcher EC, et al. **J Appl Physiol** 1996 Nov;81(5):2088–94

Microgravity decreases heart rate and arterial pressure in humans. Fritsch-Yelle JM, et al. **J Appl Physiol** 1996 Mar; 80(3):910–4

Cardiovascular and ventilatory response to isocapnic hypoxia at sea level and at 5,050 m. Insalaco G, et al. **J Appl Physiol** 1996 May;80(5):1724–30

Left ventricular mass, geometry, and filling in endurance athletes: association with exercise blood pressure. Karjalainen J, et al. **J Appl Physiol** 1997 Feb;82(2):531–7

Dynamic resistance exercise and resting blood pressure in adults: a meta-analysis. Kelley G. **J Appl Physiol** 1997 May; 82(5):1559–65

Autoregulation during pressor response elevates wall shear rate in arterioles. Kurjiaka DT, et al. **J Appl Physiol** 1996 Feb;80(2):598–604

Pulmonary vascular pressures of exercising thoroughbred horses with and without endoscopic evidence of EIPH. Manohar M, et al. **J Appl Physiol** 1996 Oct;81(4):1589–93

Central hypervolemia in the conscious rat: a model of cardiovascular deconditioning. Martel E, et al. **J Appl Physiol** 1996 Apr;80(4):1390–6

Effects of transient intrathoracic pressure changes (hiccups) on systemic arterial pressure. Mathew OP. **J Appl Physiol** 1997 Aug;83(2):371–5

Changes in stroke volume and maximal aerobic capacity with increased blood volume in men women. Mier CM, et al. **J Appl Physiol** 1996 Apr;80(4):1180–6

Comparison of techniques for measuring pulse-wave velocity in the rat. Mitchell GF, et al. **J Appl Physiol** 1997 Jan; 82(1):203–10

Neurocirculatory consequences of abrupt change in sleep state in humans. Morgan BJ, et al. **J Appl Physiol** 1996 May;80(5):1627–36

Airway obstruction during sleep increases blood pressure without arousal. O'Donnell CP, et al. **J Appl Physiol** 1996 Mar;80(3):773–81

Performance of the AM-5600 blood pressure monitor: comparison with ambulatory intra-arterial pressure. Omboni S, et al. **J Appl Physiol** 1997 Feb;82(2):698–703

Arterial and cardiopulmonary baroreflexes in 60- to 69- vs. 18- to 36-yr-old humans [see comments] Shi X, et al. **J Appl Physiol** 1996 Jun;80(6):1903–10. Comment in: J Appl Physiol 1997 Feb;82(2):716–8.

Blood pressure risks factors in healthy postmenopausal women: physical activity and hormone replacement. Stevenson ET, et al. **J Appl Physiol** 1997 Feb;82(2):652–60

Delayed and diminished pressor response to muscle sympathetic nerve activity in the elderly. Sugiyama Y, et al. **J Appl Physiol** 1996 Mar;80(3):869–75

Women have lower tolerance to lower body negative pressure than men. White DD, et al. **J Appl Physiol** 1996 Apr;80(4):1138–43

Serum sialic acid concentration and atherosclerotic risk factors. Wakabayashi I, et al. **J Atheroscler Thromb** 1994; 1(2):113–7

Neural mechanisms accounting for the increase in blood pressure and heart rate during vagino-cervical stimulation. Gómez LE, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):154–62

Differential regional sympathetic responses to somatic stimulation in anesthetized dogs. Kiyono Y, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1-2):76–82

Sympathetic nervous activity and arterial pressure responses during rest and acute behavioral stress in SHR versus WKY rats. Li SG, et al. **J Auton Nerv Syst** 1997 Feb 17; 62(3):147–54

Presence of vasomotor and respiratory rhythms in the discharge of single medullary neurons involved in the regulation of cardiovascular system. Montano N, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1-2):116–22

Is the heart "empty' at syncope? Novak V, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1-2):83–92

Changes of blood pressure, sodium excretion and sodium balance due to variations of the renin-angiotensin-aldosterone system. Reinhardt HW, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):184–7

Relationship between rhythmic discharge patterns of neurons in the central nucleus of the amygdala, blood pressure fluctuations and cortical activity. Schulz G, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):158–62

The responses of skin blood flow, mean arterial pressure and R-R interval induced by cold stimulation with cold wind and ice water. Shibahara N, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):109–15

Cardiovascular periodicities in healthy humans in the absence of breathing and under reduced chemical drive of respiration. Trzebski A, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):144–8

Baroreceptor modulation of regional haemodynamic responses to acute stress in rat. Zhang ZQ, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1-2):23–30

Intracerebroventricular choline reverses hypotension induced by acute chemical sympathectomy. Gürün MS, et al. **J Auton Pharmacol** 1997 Jun;17(3):155–63

The effect of hypothermia on gas exchange in anaesthetized rats in a confined atmosphere. Arieli R, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul-Dec;5(3-4):277–94

Mechanisms of circulatory depression during simulated central apneas in the anesthetized dog. Tarasiuk A, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul-Dec;5(3-4):253–68

The effects of age, gender, and family history on blood pressure of normotensive college students. Sherman JJ, et al. **J Behav Med** 1996 Dec;19(6):563–75

Renin-1 is essential for normal renal juxtaglomerular cell granulation and macula densa morphology. Clark AF, et al. **J Biol Chem** 1997 Jul 18;272(29):18185–90

Separation of arterial pressure waves into their forward and backward running components. Pythoud F, et al. **J Biomech Eng** 1996 Aug;118(3):295–301

Analysis of 24-hour blood pressure data. Rodda B, et al. **J Biopharm Stat** 1996 Nov;6(4):495–513 (20 ref.)

Clinical significance of abnormal postexercise systolic blood pressure response in patients with hypertrophic cardiomyopathy. Nezuo S, et al. **J Cardiol** 1996 Feb; 27(2):65–71

Comparison of pulsatile versus nonpulsatile perfusion on the postcardiopulmonary bypass aortic-radial artery pressure gradient. Badner NH, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):428–31

Caval occlusion alters the shape of the ischemic and nonischemic pressure-length loop. Piriou V, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):445–52

Blood pressure reactivity in urban youth during angry and normal talking. Liehr P, et al. **J Cardiovasc Nurs** 1997 Jul; 11(4):85–94

Roles of NO-synthase and cyclooxygenase in sex- and pregnancy-dependent arterial and venous pressures in the rat. Le Marquer-Domagala F, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):205–13

Association of body mass index, blood pressure and serum levels of triglycerides and high-density lipoprotein cholesterol in childhood with the insulin sensitivity index in young adulthood: a 13-year follow-up. Clausen JO, et al. **J Cardiovasc Risk** 1996 Oct;3(5):427–33

Heart rate, heart rate variability, and blood pressure during perioperative stressor events in abdominal surgery. Schubert A, et al. **J Clin Anesth** 1997 Feb;9(1):52–60

Obstructive sleep apnea as a cause of systemic hypertension. Evidence from a canine model [see comments] Brooks D, et al. **J Clin Invest** 1997 Jan 1;99(1):106–9. Comment in: J Clin Invest 1997 Jan 1;99(1):1–2.

Nitric oxide (NO) modulates the neurogenic control of blood pressure in rats with chronic renal failure (CRF). Ye S, et al. **J Clin Invest** 1997 Feb 1;99(3):540–8

Dynamic right and left ventricular interactions in the rabbit: simultaneous measurement of ventricular pressure-volume loops. Pinsky MR, et al. **J Crit Care** 1996 Jun;11(2):65–76

Factors related to total cholesterol and blood pressure in British 9 year olds. Rona RJ, et al. **J Epidemiol Community Health** 1996 Oct;50(5):512–18

c-fos expression in the parabrachial nucleus following cardiovascular and blood volume changes. Rocha MJ, et al. **J Hirnforsch** 1996;37(3):389–97

Brachial and digital artery pulse pressures in hypertensive and normotensive subjects. Bochmann RP, et al. **J Hum Hypertens** 1996 Aug;10(8):539–46

Blood pressure and myocardial perfusion in hypertensive patients with and without left ventricular hypertrophy. Boström PA, et al. **J Hum Hypertens** 1995 Dec; 9(12):969–74

Genetic and environmental factors regulating blood pressure in childhood: prospective study from 0 to 3 years. Guerra A, et al. **J Hum Hypertens** 1997 Apr;11(4):233–8

Central role of the kidney and abnormal fluid volume control in hypertension. Hall JE, et al. **J Hum Hypertens** 1996 Oct; 10(10):633–9 (23 ref.)

Effect of strenuous exercise on agonist-induced platelet cytosolic calcium in man. Haller H, et al. **J Hum Hypertens** 1996 Feb;10(2):99–104

Circadian rhythm of blood pressure and life style: a study of clinically healthy subjects living in rural and industrialized countries. Kawasaki T, et al. **J Hum Hypertens** 1996 May;10(5):281–5

Variation of ambulatory blood pressure in healthy middle-aged men. Loimaala A, et al. **J Hum Hypertens** 1997 Apr;11(4):227–31

Gestational diabetes mellitus and hypertension in pregnancy: hemodynamics and diurnal arterial pressure profile. Oren S, et al. **J Hum Hypertens** 1996 Aug;10(8):505–9

What method should be used to define 'night' when assessing diurnal systolic blood pressure variation in the elderly? Robinson T, et al. **J Hum Hypertens** 1995 Dec;9(12):993–9

Changes in sodium intake and blood pressure in a community-based intervention project in China. Tian HG, et al. **J Hum Hypertens** 1995 Dec;9(12):959–68

Blood pressure response to exercise of obese and lean hypertensive and normotensive male adolescents. Tulio S, et al. **J Hum Hypertens** 1995 Dec;9(12):953–8

Reproducibility of the circadian blood pressure fall at night in healthy young volunteers. Weston PJ, et al. **J Hum Hypertens** 1996 Mar;10(3):163–6

Hypertension without cardiac hypertrophy does not induce a cardiac baroreflex deficit. Banting JD, et al. **J Hypertens** 1996 Oct;14(10):1209–14

Lack of influence of menopause on blood pressure and cardiovascular risk profile: a 16-year longitudinal study concerning a cohort of 568 women. Casiglia E, et al. **J Hypertens** 1996 Jun;14(6):729–36

Vascular relaxation probably mediates the antihypertensive effect of a high-potassium diet: a role for enhanced vascular Na,K-ATPase activity. Dolson GM, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1433–9

Is the 'clinic-home blood pressure difference' associated with psychological distress? A primary care-based study. Donner-Banzhoff N, et al. **J Hypertens** 1997 Jun; 15(6):585–90

Spontaneous cardiac baroreceptor reflex and regional circulations in conscious rats. Ducher M, et al. **J Hypertens** 1996 Jul;14(7):865–9

Pressor and sympathoexcitatory effects of nitric oxide in the rostral ventrolateral medulla. Hirooka Y, et al. **J Hypertens** 1996 Nov;14(11):1317–24

Factors affecting the nocturnal decrease in blood pressure: a community-based study in Ohasama. Imai Y, et al. **J Hypertens** 1997 Aug;15(8):827–38

Exercise and blood pressure: Walk, run or swim? [editorial] Jennings GL. **J Hypertens** 1997 Jun;15(6):567–9 (21 ref.)

Plasma concentrations of inactive renin in adult life are related to indicators of foetal growth. Martyn CN, et al. **J Hypertens** 1996 Jul;14(7):881–6

Mechanical effects of respiration and stepping on systolic arterial pressure variability during treadmill exercise. Piazza S, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1643–7

Predictors of diurnal blood pressure changes in 2042 subjects with essential hypertension. Schillaci G, et al. **J Hypertens** 1996 Oct;14(10):1167–73

Effect of angiotensinogen on blood pressure regulation in normotensive rats: application of a loss of function approach. Tomita N, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1767–74

Relationship between renal plasma flow response to angiotensin II and blood pressure in a population-based sample. Turner ST, et al. **J Hypertens** 1997 May; 15(5):495–502

Does the neuropeptide Y Y1 receptor contribute to blood pressure control in the spontaneously hypertensive rat? Zhao XH, et al. **J Hypertens** 1997 Jan;15(1):19–27

Adrenomedullin: a new hypotensive peptide. Kangawa K, et al. **J Hypertens Suppl** 1996 Dec;14(5):S105–10 (29 ref.)

Significance of exercise induced increase in the diastolic pressure as an indicator of severe coronary artery disease. Chatterjee S, et al. **J Indian Med Assoc** 1996 Dec; 94(12):443–4, 451

Low frequency of adenylate kinase release into cerebrospinal fluid during balanced, normotensive anaesthesia and a non-orthognathic surgical procedure. Enlund M, et al. **J Int Med Res** 1997 Mar-Apr;25(2):92–7

Relationship of insulin resistance and hyperinsulinemia to blood pressure during pregnancy. Cioffi FJ, et al. **J Matern Fetal Med** 1997 May-Jun;6(3):174–9

Construction of age-related reference limits for 24-h blood pressure pattern. Cugini P, et al. **J Med Eng Technol** 1997 May-Aug;21(3-4):126–34

Effect of treppe on isovolumic function in the isolated blood-perfused mouse heart. Brooks WW, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1817–22

Enhanced expression of Gi-protein precedes the development of blood pressure in spontaneously hypertensive rats. Marcil J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1009–22

Altered cardiac mechanism and sarcoplasmic reticulum function in pressure overload-induced cardiac hypertrophy in rats. Ohkusa T, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):45–54

RM and Beaux: reductions in cardiac activity in response to a pet snake. Eddy TJ. **J Nerv Ment Dis** 1996 Sep; 184(9):573–5

Simultaneous encoding of carotid sinus pressure and dP/dt by NTS target neurons of myelinated baroreceptors. Rogers RF, et al. **J Neurophysiol** 1996 Oct;76(4):2644–60

Combined medical and surgical treatment after acute spinal cord injury: results of a prospective pilot study to assess the merits of aggressive medical resuscitation and blood pressure management. Vale FL, et al. **J Neurosurg** 1997 Aug;87(2):239–46

Food restriction reduces sympathetic support of blood pressure in spontaneously hypertensive rats. Overton JM, et al. **J Nutr** 1997 Apr;127(4):655–60

Radial artery blood pressure measurement in neonates: an accurate and convenient technique in clinical practice.

Gevers M, et al. **J Perinat Med** 1995;23(6):467–75

High sensitivity test for the early diagnosis of gestational hypertension and preeclampsia. II. Circadian blood pressure variability in health and hypertensive pregnant women. Hermida RC, et al. **J Perinat Med** 1997; 25(2):153–67

Effects of arterial perfusion pressure on force production in working human hand muscles. Fitzpatrick R, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):885–91

Impaired sympathetic vascular regulation in humans after acute dynamic exercise. Halliwill JR, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):279–88

Sympathetic nerve traffic correlates with the release of nitric oxide in humans: implications for blood pressure control. Skarphedinsson JO, et al. **J Physiol (Lond)** 1997 Jun 15; 501 (Pt 3):671–5

Determining blood pressure in pregnancy. Positional hydrostatic effects. Hallak M, et al. **J Reprod Med** 1997 Jun;42(6):333–6

Blood pressure and age-dependent changes of endothelium-dependent tension oscillations in different strains of spontaneously hypertensive rats. Shimamura K, et al. **J Smooth Muscle Res** 1996 Aug;32(4):145–54

Cardiopulmonary responses to capsaicin instillation to the laryngeal lumen and their reflex mechanisms in rats. Hishida N, et al. **J Vet Med Sci** 1996 Aug;58(8):761–7

Hemodynamic factors regulating blood pressure during sleep in patients with mild essential hypertension. Tochikubo O, et al. **Jpn Circ J** 1997 Jan;61(1):25–37

Lower blood pressure values in blood donors? Casiglia E, et al. **Jpn Heart J** 1996 Nov;37(6):897–903

Nitric oxide in vascular remodeling. Nakaki T, et al. **Jpn Heart J** 1996 Jul;37(4):431–45

Assessment of the accuracy of indirect blood pressure measurements. Ochiai H, et al. **Jpn Heart J** 1997 May; 38(3):393–407

New algorithms for real-time, 24 hr continuous and noise-adjusted power spectral analysis of heart rate and blood pressure fluctuations in conscious rats. Nagai R, et al. **Jpn J Pharmacol** 1996 Dec;72(4):355–64

The effects of noxious mechanical stimulation on heart rate, mean arterial blood pressure and cytotoxic activity of splenic natural killer cells in anesthetized rats. Ohashi-Kimura A. **Jpn J Vet Res** 1996 Aug;44(2):129–30

Physiological and pathophysiological role of the epithelial sodium channel in the control of blood pressure. Hummler E, et al. **Kidney Blood Press Res** 1996;19(3–4):160–5 (49 ref.)

Dissociation of blood pressure and blood flow. Nafz B, et al. **Kidney Blood Press Res** 1997;20(3):205–9

Mechanism of hypouricemia in a child with the normotensive form of Gordon's syndrome. Zawadzki J. **Kidney Blood Press Res** 1997;20(1):64–70

Circadian rhythm of arterial blood pressure and albuminuria in diabetic nephropathy. Hansen HP, et al. **Kidney Int** 1996 Aug;50(2):579–85

Role of dietary protein and blood pressure in the progression of renal disease. Klahr S. **Kidney Int** 1996 Jun;49(6):1783–6 (18 ref.)

Blood pressure and progression of renal failure in the elderly. Acone D, et al. **Kidney Int Suppl** 1996 Jun;55:S75–7

Chronic effects of nitric oxide and prostaglandin inhibition on pressure diuresis and natriuresis in rats. García-Estan J, et al. **Kidney Int Suppl** 1996 Jun;55:S141–3

Pressure-volume regulation in hypertension. Hall JE, et al. **Kidney Int Suppl** 1996 Jun;55:S35–41 (21 ref.)

Nocturnal blood pressure elevation in transplanted pediatric patients. Lingens N, et al. **Kidney Int Suppl** 1996 Jun; 55:S175–6

Lessons to be learned from 24-hour ambulatory blood pressure monitoring. Mancia G, et al. **Kidney Int Suppl** 1996 Jun;55:S63–8 (31 ref.)

Microalbuminuria, left ventricular mass and ambulatory blood pressure in essential hypertension. Redon J, et al. **Kidney Int Suppl** 1996 Jun;55:S81–4

Attenuated central pressor response to nitric oxide synthesis inhibition in chronic renal failure rats. Choi KC, et al. **Korean J Intern Med** 1997 Jan;12(1):58–61

Blood pressure and atherogenic lipoprotein profiles of fish-diet and vegetarian villagers in Tanzania: the Lugalawa study [see comments] Pauletto P, et al. **Lancet** 1996 Sep 21;348(9030):784–8. Comment in: Lancet 1996 Nov 23;348(9039):1460.

The kidney in blood pressure regulation and development of hypertension. Navar LG. **Med Clin North Am** 1997 Sep; 81(5):1165–98 (179 ref.)

A multivariate time-variant AR method for the analysis of heart rate and arterial blood pressure. Di Virgilio V, et al. **Med Eng Phys** 1997 Mar;19(2):109–24

Fit to diastolic arterial pressure by third-order lumped model yields unreliable estimates of arterial compliance. Fogliardi R, et al. **Med Eng Phys** 1996 Apr;18(3):225–33

Eccentric exercise augments the cardiovascular response to static exercise. Miles MP, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):457–66

Pressor response to isometric exercise in patients with multiple sclerosis. Pepin EB, et al. **Med Sci Sports Exerc** 1996 Jun;28(6):656–60

Double product response is accelerated above the blood lactate threshold. Tanaka H, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):503–8

Control mechanisms of retinal vein pressure: evaluation in the cat using an in situ infusion micropipette. Attariwala R, et al. **Microcirculation** 1996 Sep;3(3):263–70

Age-related differences in intestinal arteriolar responses to venous pressure elevation in the rat. Gosche JR, et al. **Microcirculation** 1996 Dec;3(4):395–400

Effect of transvascular fluid exchange on pressure-flow relationship in tumors: a proposed mechanism for tumor blood flow heterogeneity. Netti PA, et al. **Microvasc Res** 1996 Jul;52(1):27–46

Autonomic evaluation by means of standard tests and power spectral analysis in multiple sclerosis. Linden D, et al. **Muscle Nerve** 1997 Jul;20(7):809–14

A clinical trial of the effects of dietary patterns on blood pressure. DASH Collaborative Research Group [see comments] Appel LJ, et al. **N Engl J Med** 1997 Apr 17; 336(16):1117–24. Comment in: N Engl J Med 1997 Aug 28;337(9):636–7; discussion 637–8. Comment in: N Engl J Med 1997 Aug 28;337(9):637; discussion 637–8.

The control of microvascular permeability and blood pressure by neutral endopeptidase. Lu B, et al. **Nat Med** 1997 Aug;3(8):904–7

Autoregulation of renal blood flow and pressure-dependent renin release in autosomal dominant polycystic kidney disease of rats. Braun C, et al. **Nephrol Dial Transplant** 1996;11 Suppl 6:52–7

Subacute infusion of physiological doses of parathyroid hormone raises blood pressure in humans. Fliser D, et al. **Nephrol Dial Transplant** 1997 May;12(5):933–8

Effects of dietary salt restriction on blood pressure and the renal vasoactive system in the congenitally bilateral hydronephrotic rat. Kanehara H, et al. **Nephron** 1996; 73(2):286–92

Abnormal hypertensive response during exercise test in normotensive transplanted children and adolescents. Matteucci MC, et al. **Nephron** 1996;73(2):201–6

Plasma atrial natriuretic peptide, body weight and twenty-four-hour blood pressure monitoring in chronic hemodialysis patients. Ojanen S, et al. **Nephron** 1996; 73(2):174–8

High-performance hemodiafiltration and blood pressure stability. Takenaka T, et al. **Nephron** 1997;75(1):30–5

Diurnal systolic blood pressure variability is the strongest predictor of early carotid atherosclerosis. Sander D, et al. **Neurology** 1996 Aug;47(2):500–7

Acceleration of EEG theta wave precedes the phasic surge of arterial pressure during REM sleep in the rat. Sei H, et al. **Neuroreport** 1996 Nov 25;7(18):3059–62

Fiber types of the lingual branch of the trigeminal nerve, chorda tympani, lingual-tonsillar and pharyngeal branches of the glossopharyngeal nerve, and superior laryngeal nerve and their relation to the cardiovascular responses in rats. Hanamori T, et al. **Neurosci Lett** 1996 Nov 15;219(1):49–52

Lack of nitric oxide sensitivity of carotid sinus baroreceptors activated by normal blood pressure stimuli in cats. Zanzinger J, et al. **Neurosci Lett** 1996 Apr 19;208(2):121–4

Aortic barodenervation up-regulates alpha2-adrenoceptors in the nucleus tractus solitarius and rostral ventrolateral medulla: an autoradiographic study. El-Mas MM, et al. **Neuroscience** 1997 Jul;79(2):581–90

Circadian rhythms of arterial pressure, heart rate and oral temperature in truck drivers. Stoynev AG, et al. **Occup Med (Oxf)** 1997 Apr;47(3):151–4

POAG, IOP, and BP in the elderly [letter; comment] Crapotta CF. **Ophthalmology** 1995 Aug;102(8):1126. Comment on: Ophthalmology 1995 Jan;102(1):54–60.

The effects of phacoemulsification cataract surgery via local anesthesia on preoperative and postoperative blood pressure levels. Suzuki R, et al. **Ophthalmology** 1997 Feb; 104(2):216–22

Mechanisms of heart rate and arterial blood pressure control: implications for the pathophysiology of neurocardiogenic syncope. Quan KJ, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):764–74 (37 ref.)

Cardiovascular reactivity to psychological stress may enhance subsequent pain sensitivity. Caceres C, et al. **Pain** 1997 Feb;69(3):237–44

The relationship between resting systolic blood pressure and cutaneous pain perception in cardiac patients with angina pectoris and controls. Sheffield D, et al. **Pain** 1997 Jul; 71(3):249–55

Resting systolic blood pressure, parental history of hypertension, and sensitivity to noxious stimuli. Stewart KM, et al. **Pain** 1996 Dec;68(2–3):369–74

Twenty-four-hour ambulatory blood pressure profiles in pediatric patients after renal transplantation. Lingens N, et al. **Pediatr Nephrol** 1997 Feb;11(1):23–6

Diet and blood pressure in children and adolescents. Simons-Morton DG, et al. **Pediatr Nephrol** 1997 Apr; 11(2):244–9 (53 ref.)

Bisferiens peaks in the radial artery pressure wave during patent ductus arteriosus in newborn infants: relationship with ascending aortic flow. Gevers M, et al. **Pediatr Res** 1996 Jul;40(1):163–8

Spectral pattern of neonatal cerebral blood flow velocity: comparison with spectra from blood pressure and heart rate. Reynolds KJ, et al. **Pediatr Res** 1997 Feb;41(2):276–84

Change in blood pressure during pubertal insulin resistance. Taittonen L, et al. **Pediatr Res** 1997 Feb;41(2):272–5

Emphasis on the need for timing of autogenic training. Watanabe Y, et al. **Percept Mot Skills** 1997 Aug;85(1):121–2

Long-term control of blood pressure and sodium balance: is the baseline nocturnal? Michell A. **Perspect Biol Med** 1997 Summer;40(4):516–28 (61 ref.)

Insulin, the renin-angiotensin-aldosterone system and blood pressure. Tait JF, et al. **Perspect Biol Med** 1997 Winter; 40(2):246–59 (64 ref.)

Heart rate, blood pressure, and running speed responses to mesencephalic locomotor region stimulation in anesthetized rats. Chong RK, et al. **Pflugers Arch** 1997 Jul;434(3):280–4

Systemic filling pressure in the intact circulation determined with a slow inflation procedure. Hartog EA, et al. **Pflugers Arch** 1996 Apr;431(6):863–7

Cerebrospinal fluid sodium concentration and osmosensitive sites related to arterial pressure in anaesthetized rats. Nose H, et al. **Pflugers Arch** 1996 Apr;431(6):807–13

Ethanol preference, metabolism, blood pressure, and conditioned taste aversion in experimental cholestasis. Lane JR, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):755–66

The role of central cholinergic neurons in the regulation of blood pressure and in experimental hypertension. Buccafusco JJ. **Pharmacol Rev** 1996 Jun;48(2):179–211 (293 ref.)

Effect of transcutaneous electrical nerve stimulation on the pressor response to static handgrip exercise. Hollman JE, et al. **Phys Ther** 1997 Jan;77(1):28–36

Ventromedial hypothalamus lesions increase the dipsogenic responses and reduce the pressor responses to median preoptic area activation. Bastos R, et al. **Physiol Behav** 1997 Aug;62(2):311–6

Blood pressure responses to acute exercise in type A and B females and males. Bulbulian R, et al. **Physiol Behav** 1996 Oct;60(4):1177–82

Cardiorespiratory components of defense reaction elicited from paraventricular nucleus. Duan YF, et al. **Physiol Behav** 1997 Feb;61(2):325–30

The relevance of continuous blood pressure monitoring in examining the relationship of memory efficiency with blood pressure characteristics. Fioravanti M, et al. **Physiol Behav** 1996 Jun;59(6):1077–84

Application of a radiotelemetry system for chronic measurement of blood pressure, heart rate, EEG, and activity in the chicken. Savory CJ, et al. **Physiol Behav** 1997 Jun;61(6):963–9

Habituation of airpuff-elicited cardiovascular responses in the spontaneously hypertensive rat. Taylor BK, et al. **Physiol Behav** 1996 Sep;60(3):919–25

Relationship between blood pressure and stress-prone temperament in dogs. Vincent IC, et al. **Physiol Behav** 1996 Jul;60(1):135–8

Estimation of arterial blood pressure variability by spectral analysis: comparison between Finapres and invasive measurements. Pinna GD, et al. **Physiol Meas** 1996 Aug; 17(3):147–69

Cardiovascular and neuroendocrine adjustment to public speaking and mental arithmetic stressors. Al'Absi M, et al. **Psychophysiology** 1997 May;34(3):266–75

Cardiovascular responses during effortful active coping and acute experience of anger in women. Bongard S, et al. **Psychophysiology** 1997 Jul;34(4):459–66

Relationships between startle and cardiovascular reactivity. Gautier CH, et al. **Psychophysiology** 1997 Jan;34(1):87–96

Bradycardia during baroreflex stimulation and active or passive stressor tasks: cardiorespiratory fitness and hostility. Graham RE, et al. **Psychophysiology** 1996 Sep;33(5):566–75

Daily mood states and ambulatory blood pressure. Shapiro D, et al. **Psychophysiology** 1997 Jul;34(4):399–405

Ten-year stability of cardiovascular responses to laboratory stressors. Sherwood A, et al. **Psychophysiology** 1997 Mar; 34(2):185–91

Social determinants of cardiovascular reactivity: effects of incentive to exert influence and evaluative threat. Smith TW, et al. **Psychophysiology** 1997 Jan;34(1):65–73

Reproducibility of blood pressure and heart rate reactivity: a meta-analysis. Swain A, et al. **Psychophysiology** 1996 Mar;33(2):162–74

Emotional reactivity, defensiveness, and ambulatory cardiovascular response at work. Melamed S. **Psychosom Med** 1996 Sep–Oct;58(5):500–7

Enduring effects of infant feeding experiences on adult blood pressure. Myers MM. **Psychosom Med** 1996 Nov–Dec; 58(6):612–21 (45 ref.)

Plasma neurotransmitters, blood pressure and heart rate during supine resting, orthostasis and moderate exercise in severely ill patients: a model of failing to cope with stress. Lechin F, et al. **Psychother Psychosom** 1996; 65(3):129–36

Intraindividual relationships between blood pressure level and emotional state. Shimomitsu T, et al. **Psychother Psychosom** 1996;65(3):137–44

The effect of head-down tilt position on arterial blood pressure after spinal anesthesia for cesarean delivery. Miyabe M, et al. **Reg Anesth** 1997 May–Jun;22(3):239–42

Changes of blood pressure responsiveness in rats exposed in utero and perinatally to a high-salt environment. Argüelles J, et al. **Regul Pept** 1996 Oct 8;66(1–2):113–5

Responses to systemic angiotensin II in lactating and non-lactating goats. Hossaini-Hilali J, et al. **Regul Pept** 1996 Oct 8;66(1–2):123–6

Centrally administered losartan inhibits the reduction in plasma renin concentration caused by intracerebroventricular hypertonic saline in Na-depleted sheep. McKinley MJ, et al. **Regul Pept** 1996 Oct 8; 66(1–2):37–40

Interaction of vasopressin and angiotensin II in central

control of blood pressure and thirst.
Szczepańska-Sadowska E. **Regul Pept** 1996 Oct 8; 66(1-2):65-71 (60 ref.)

Cardiovascular autonomic regulation in asthmatic children evidenced by spectral analysis of heart rate and blood pressure variability. Jartti TT, et al.
Scand J Clin Lab Invest 1996 Oct;56(6):545-54

The role of blood pressure and aldosterone in the production of hemorrhagic stroke in captopril-treated hypertensive rats. MacLeod AB, et al. **Stroke** 1997 Sep;28(9):1821-8; discussion 1829

Slow rhythmic oscillations of blood pressure, intracranial pressure, microcirculation, and cerebral oxygenation. Dynamic interrelation and time course in humans [see comments] Steinmeier R, et al. **Stroke** 1996 Dec; 27(12):2236-43. Comment in: Stroke 1997 Jun;28(6):1289-91.

Effect of proximal arterial perfusion pressure on function, spinal cord blood flow, and histopathologic changes after increasing intervals of aortic occlusion in the rat [see comments] Taira Y, et al. **Stroke** 1996 Oct;27(10):1850-8 . Comment in: Stroke 1997 Apr;28(4):878-9.

Changes in angiographic features and the ankle/brachial pressure index of femorodistal arterial bypass grafts during knee flexion. Akiyama N, et al. **Surg Today** 1996; 26(2):115-8

Systemic pressor response during hindlimb ischemia is inversely related to femoral artery pressure and fractional inspired oxygen. Zwemer CF, et al. **Surgery** 1996 Nov; 120(5):838-44

Circadian variations of blood pressure and heart rate early and late after heart transplantation. Bracht C, et al.
Transplantation 1996 Oct 27;62(8):1187-90

Lose salt and gain a friend! A tribute to Gerhard Giebisch. Rossier BC. **Wien Klin Wochenschr** 1997 Jun 27; 109(12-13):504-6

Evaluation of nocturnal blood pressure by the Multi-P Analysis of 24-hour ambulatory monitoring. Lusardi P, et al. **Z Kardiol** 1996;85 Suppl 3:121-3

Effect of nocturnal blood pressure measurement on sleep and blood pressure during sleep. Middeke M. **Z Kardiol** 1996; 85 Suppl 3:99-105 (14 ref.)

Radical assessment of arterial pressure. O'Rourke MF.
Z Kardiol 1996;85 Suppl 3:134-5

Relationship between the ascending aortic pressure waveform and the pressure wave determined in the finger by Finapres. Plunkett BT, et al. **Z Kardiol** 1996;85 Suppl 3:136

Representativeness of peripheral blood pressure values: the pulsatile component of blood pressure in hypertension. Safar M. **Z Kardiol** 1996;85 Suppl 3:51-9 (26 ref.)

[Reproducibility of the blood pressure variability parameters by plethysmographic method (FINAPRES) in normotensive subject] Ragot S, et al.
Arch Mal Coeur Vaiss 1996 Aug;89(8):1029-33 (Eng. Abstr.) **(Fre)**

[Role of arterial blood pressure in the development of glaucomatous lesions] Bresson-Dumont H, et al.
J Fr Ophtalmol 1996;19(6-7):435-42 (Eng. Abstr.) **(Fre)**

[Systolic pressure measurement of the big toe (and of the ankle) as the first line od complete angiologic investigation comprising TcPO2, echography, and doppler ultrasonography] Rommer P. **J Mal Vasc** 1997;22(1):64-6 **(Fre)**

[Effect of changes in ocular perfusion pressure on choroid ischemia in man] Riva CE, et al.
Klin Monatsbl Augenheilkd 1997 May;210(5):310-2 (Eng. Abstr.) **(Fre)**

[Nyctohemeral rhythm of arterial pressure] Tcherdakoff, et al. **Pathol Biol (Paris)** 1996 Sep;44(7):592-602 (39 ref.) (Eng. Abstr.) **(Fre)**

[Role of nitric oxide in the regulation of arterial pressure and renal function] Dussaule JC, et al. **Presse Med** 1996 Nov 23;25(36):1789-93 (22 ref.) (Eng. Abstr.) **(Fre)**

[Self-monitoring of blood pressure] Weber F, et al.
Dtsch Med Wochenschr 1997 Mar 14;122(11):335-8 (46 ref.) **(Ger)**

[Use of discontinuous long-term blood pressure measurement (Spacelabs 90207) in patients with sleep apnea--a comparison with intra-arterial data] Heitmann J, et al.
Pneumologie 1997 Aug;51 Suppl 3:747-9 (Eng. Abstr.) **(Ger)**

[Prognostic significance of blood pressure during ergometry] Franz IW. **Versicherungsmedizin** 1996 Dec 1;48(6):208-11 (20 ref.) (Eng. Abstr.) **(Ger)**

[Longitudinal study of 24-hour blood pressure behavior in pregnancy and puerperium in patients with normal pregnancy, pre-eclampsia and HELLP syndrome] Ruschitzka F, et al. **Z Geburtshilfe Neonatol** 1996 May-Jun; 200(3):100-3 (Eng. Abstr.) **(Ger)**

[Morphofunctional changes induced by acute pressure overload the isolated working rat heart] Di Napoli P, et al. **Cardiologia** 1997 May;42(5):529-31 **(Ita)**

[Behavior of plasma levels of endothelin 1 and noradrenaline in patients with stable angina during the cold pressor test] Letizia C, et al. **Recenti Prog Med** 1997 Jul-Aug; 88(7-8):312-6 (Eng. Abstr.) **(Ita)**

[Etiology and physiopathology of diurnal change of blood pressure] Abe I. **Fukuoka Igaku Zasshi** 1997 Feb; 88(2):19-22 (3 ref.) **(Jpn)**

[The effect of cerebral perfusion pressure on cerebral blood flow in the rhesus monkey during sevoflurane anesthesia] Kaneko T, et al. **Masui** 1997 Feb;46(2):166-72 (Eng. Abstr.) **(Jpn)**

[Changes in arterial blood pressure and hypothalamic neural activity in response to caloric stimulation in guinea pigs] Inokuchi A, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Feb;100(2):199-204 (Eng. Abstr.) **(Jpn)**

[Influence of sleep apnea on nocturnal blood pressure] Shibata N, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jun; 100(6):678-84 (Eng. Abstr.) **(Jpn)**

[Exercise electrocardiography for cardiovascular functional evaluation] Yoshida H, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:532-5 (11 ref.) **(Jpn)**

[Effects of age and sex on orthostatic change of blood pressure in normal persons] Watanabe M, et al.
Rinsho Shinkeigaku 1996 Oct;36(10):1175-8 (Eng. Abstr.) **(Jpn)**

[Change of blood pressure in head-up tilting test in patients with Binswanger-type infarction] Watanabe M, et al.
Rinsho Shinkeigaku 1996 Nov;36(11):1221-4 (Eng. Abstr.) **(Jpn)**

[Circadian profiles of blood pressure in the patients with essential hypertension] Hano T, et al.
Ryoikibetsu Shokogun Shirizu 1996;(12):167-70 (14 ref.) **(Jpn)**

[Arterial blood pressure 3-8 years after EPH gestosis in mothers and their children] Czeszyńska MB, et al.
Ginekol Pol 1996 May;67(5):231-6 (Eng. Abstr.) **(Pol)**

[Evaluation of selected functional circulation parameters of workers from various occupational groups exposed to electromagnetic fields of high frequency. III. 24-h monitoring of arterial blood pressure (ABP)] Gadzicka E, et al. **Med Pr** 1997;48(1):15-24 (Eng. Abstr.) **(Pol)**

[Circadian rhythm of blood pressure in patients with chronic kidney failure in the course of diabetes treated with peritoneal dialysis] Karasek D, et al.
Pol Arch Med Wewn 1996 Oct;96(4):309-17 (Eng. Abstr.) **(Pol)**

[Circadian rhythm of blood pressure in patients with chronic renal failure treated with hemodialysis] Karasek D, et al.
Pol Arch Med Wewn 1996 Sep;96(3):242-52 (Eng. Abstr.) **(Pol)**

[Analysis of measurements: arterial blood pressure, pulse rate and oxygen saturation in arterial blood during broncho-fibroscopy and bronchoalveolar lavage in patients with bronchial asthma and chronic bronchitis] Jahnz-Różyk K, et al. **Pol Merkuriusz Lek** 1996 Jul; 1(1):18-21 (Eng. Abstr.) **(Pol)**

[The influence of noise increased arterial blood pressure in workers during the work day] Nowak S.
Pol Merkuriusz Lek 1996 Dec;1(6):389-93 (Eng. Abstr.) **(Pol)**

[Environmental factors and blood pressure] Markiewicz A.
Przegl Lek 1997;54(1):31-6 (133 ref.) **(Pol)**

[Influence of sustained increases of arterial pressure on left ventricular dP/dt when the left ventricular diastolic pressure is kept constant] Fioretto JR, et al.
Arq Bras Cardiol 1996 Sep;67(3):159-64 (Eng. Abstr.) **(Por)**

[The informative value of temporal artery sphygmogram for diagnosis visual disorders during +Gz-loads] Kukuskin IA, et al. **Aviakosm Ekolog Med** 1997;31(1):34-9 (Eng. Abstr.) **(Rus)**

[Systemic arterial pressure of cats during chemoreceptors stimulation of vertebral artery reflex zone] Kupriianov SV.
Aviakosm Ekolog Med 1996;30(1):60-2 **(Rus)**

[Mechanisms of increase in the arterial blood pressure during deficiency of exogenous calcium] Churina SK, et al.
Biull Eksp Biol Med 1994 May;117(5):476-7 **(Rus)**

[Ontogenetic dynamics of blood pressure and characteristics of EKG in rats of NISAG line with congenital arterial hypertension] Makhanova NA, et al.
Biull Eksp Biol Med 1997 Jun;123(6):709-13 **(Rus)**

[Hormonal profile and arterial pressure in health children during puberty] Kozhevnikova OV, et al.
Fiziol Cheloveka 1997 Mar-Apr;23(2):155-8 **(Rus)**

[Distribution of the moment of onset of inhalation within the ECG R-R interval] Kuz'menko VA.
Fiziol Cheloveka 1997 Jul-Aug;23(4):130-2 **(Rus)**

[Detection of arterial hypertension in persons without a clear increase in arterial pressure based on data of daily monitoring] Vilkov VG. **Fiziol Cheloveka** 1997 Jul-Aug; 23(4):65-8 **(Rus)**

[The effect of the initial (controllable) tonus of arterial vessels on the formation of systemic pressor reactions] Osadchiĭ LI, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug-Sep; 82(8-9):43-53 (Eng. Abstr.) **(Rus)**

[The correlation of cardiac mechanical activity and arterial pressure in the hemodynamic postural reactions of rats] Osadchiĭ LI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct; 81(10):59-69 (Eng. Abstr.) **(Rus)**

[The function of pressor humoral substances in myocardial infarct patients (a review of the literature)] Bobrov VA, et al. **Lik Sprava** 1995 Mar-Apr;(3-4):37-42 (59 ref.) **(Rus)**

[Relationship between psychosocial and cardiovascular variables in adolescents] Bretaña Casado ML, et al.
An Esp Pediatr 1996 Dec;45(6):603-8 (Eng. Abstr.) **(Spa)**

[Determinants of arterial blood pressure in a negative Andean population] Rothhammer F.
Arch Biol Med Exp (Santiago) 1987;20(1):39-43 (Eng. Abstr.) **(Spa)**

[Tissue angiotensin II and its impact in the treatment of arterial hypertension] Escobar-Morreale HF, et al.
Med Clin (Barc) 1997 Jan 25;108(3):105-8 (63 ref.) **(Spa)**

[Blood pressure levels in young students. Correlation between body mass and metabolic and hemodynamic factors] De Lena SM, et al. **Medicina (B Aires)** 1996;56(2):161-8 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Ultraviolet light may contribute to geographic and racial blood pressure differences. Rostand SG. **Hypertension** 1997 Aug;30(2 Pt 1):150-6 (110 ref.)

Exposure to extremely-low-frequency electromagnetic fields and radiofrequency radiation: cardiovascular effects in humans. Jauchem JR. **Int Arch Occup Environ Health** 1997; 70(1):9-21 (160 ref.)

Effects of low-dose gamma-irradiation to the chest regions on the blood pressure of spontaneous hypertensive rats. Yamaoka K, et al. **Physiol Chem Phys Med NMR** 1995; 27(3):161-5

Age does not affect thermal and cardiorespiratory responses to microwave heating in calorically restricted rats. Ryan KL, et al. **Shock** 1997 Jul;8(1):55-60

BLOOD PRESSURE DETERMINATION

Treatment of hypertensive patients according to the conventional or ambulatory pressure: a progress report on the APTH trial. APTH Investigators. Ambulatory Blood Pressure and Treatment of Hypertension. Bieniaszewski L, et al. **Acta Cardiol** 1996;51(3):243-51

Home self blood pressure measurement in general practice. The SMART study. Self-measurement for the Assessment of the Response to Trandolapril [see comments] Chatellier G, et al. **Am J Hypertens** 1996 Jul;9(7):644-52. Comment in: Am J Hypertens 1997 Jan;10(1):141-2.

How should circadian blood pressure variation be determined? [letter] Harshfield GA. **Am J Hypertens** 1996 Jan;9(1):97

Effect of the Hanshin-Awaji earthquake on home blood pressure in patients with essential hypertension. Minami J, et al. **Am J Hypertens** 1997 Feb;10(2):222-5

Reply to Drs. Lemmer and Pickering [letter] Shapiro AP. **Am J Hypertens** 1996 Jan;9(1):95

Albuminuria in diabetes mellitus: relation to ambulatory versus office blood pressure and effects of cilazapril. Waeber B, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1220-7

Distal vessel pullback angiography and pressure gradient measurement: an innovative diagnostic approach to evaluate the no-reflow phenomenon [see comments] Sherman JR, et al. **Cathet Cardiovasc Diagn** 1996 Sep; 39(1):1-6. Comment in: Cathet Cardiovasc Diagn 1996 Sep;39(1):7-8.

Ambulatory blood pressure is superior to clinic blood pressure in predicting treatment-induced regression of left ventricular hypertrophy. SAMPLE Study Group. Study on Ambulatory Monitoring of Blood Pressure and Lisinopril Evaluation [published erratum appears in Circulation 1997 Aug 5;96(3):1065] Mancia G, et al.
Circulation 1997 Mar 18;95(6):1464-70

The alarm reaction to blood pressure measurement in dialysis patients. Tripepi G, et al. **Contrib Nephrol** 1996;119:161-4

How important is 24-hour control of blood pressure? Morgan T, et al. **Drug Saf** 1996 Oct;15(4):243-8 (20 ref.)

How many measurements are necessary in diagnosing mild to moderate hypertension? Brueren MM, et al.
Fam Pract 1997 Apr;14(2):130-5

Ambulatory and home blood pressure normality in the elderly: data from the PAMELA population. Sega R, et al. **Hypertension** 1997 Jul;30(1 Pt 1):1-6

Direct vs indirect blood pressure at rest and during isometric exercise in normal subjects. Sagiv M, et al.
Int J Sports Med 1995 Nov;16(8):514-8

The influence of cuff size on blood pressure measurement. Bakx C, et al. **J Hum Hypertens** 1997 Jul;11(7):439-45

Are four duplicate remeasurements sufficient for diagnosing mild hypertension? Brueren M, et al. **J Hum Hypertens** 1996 Jun;10(6):349-52

Characteristics of a reversed circadian blood pressure rhythm in pregnant women with hypertension [letter] Halligan A, et al. **J Hum Hypertens** 1996 Feb;10(2):135

Measurement of blood pressure may be affected by an interaction between subject and observer based on gender. Millar JA, et al. **J Hum Hypertens** 1996 Jul;10(7):449-53

Ambulatory daytime blood pressure in relation to age and gender compared to previous population studies based on office blood pressure. The Danish Study Group on Ambulatory Blood Pressure. Nielsen PE, et al.
J Hum Hypertens 1996 Sep;10 Suppl 3:S55-8

Will mercury manometers soon be obsolete? [editorial] O'Brien E. **J Hum Hypertens** 1995 Dec;9(12):933-4 (18 ref.)

Artifact of blood pressure recording using heparin-filled catheter: effects on blood pressure and coagulation parameters. Martin V, et al.
J Pharmacol Toxicol Methods 1996 Oct;36(2):69-72

Chronic intraaneurysmal pressure measurement: an experimental method for evaluating the effectiveness of endovascular aortic aneurysm exclusion. Sanchez LA, et

al. **J Vasc Surg** 1997 Aug;26(2):222–30

White-coat hypertension [letter; comment] Krakoff LR, et al. **Lancet** 1996 Nov 23;348(9039):1443–4; discussion 1445–6 . Comment on: Lancet 1996 Sep 7;348(9028):654–7.

White-coat hypertension [letter; comment] Kristensen KS, et al. **Lancet** 1996 Nov 23;348(9039):1444; discussion 1445–6 . Comment on: Lancet 1996 Sep 7;348(9028):654–7.

Consultation with the specialist. The diagnosis of hypertension in children: an update. Daniels SR. **Pediatr Rev** 1997 Apr;18(4):131–5

Comparison of relaxation techniques, routine blood pressure measurements, and self-learning packages in hypertension control. Yen LL, et al. **Prev Med** 1996 May-Jun; 25(3):339–45

Estimating predictive values for blood pressure measurements from multivariate regression models with covariates. Cook NR. **Stat Med** 1996 Oct 15;15(19):2013–28

[This is the year of the centenary of arterial hypertension (editorial)] Mallion JM. **Arch Mal Coeur Vaiss** 1996 Aug; 89(8):961 **(Fre)**

["White coat effect" on blood pressure] Prattichizzo FA, et al. **Minerva Cardioangiol** 1996 Nov;44(11):539–43 (Eng. Abstr.) **(Ita)**

[Is white-coat hypertension innocent?] Rossi G. **Recenti Prog Med** 1997 Jan;88(1):1–3 **(Ita)**

[Pressure measurement systems in cardiac chambers and pulmonary artery] Shigematsu Y, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:501–3 (2 ref.) **(Jpn)**

[Taking the arterial pressure during consultation (letter; comment)] Alonso Martínez MM, et al. **Aten Primaria** 1997 May 15;19(8):445–6. Comment on: Aten Primaria 1996 Oct 15;18(6):321–3. **(Spa)**

[White coat arterial hypertension and blood pressure control cards (letter; comment)] Navarro JF, et al. **Med Clin (Barc)** 1997 Jan 18;108(2):77. Comment on: Med Clin (Barc) 1996 May 11;106(18):690–4. **(Spa)**

HISTORY

Scipione Riva-Rocci. Mancia G. **Clin Cardiol** 1997 May; 20(5):503–4

The sphygmomanometer of Riva-Rocci 1896–1996. Brown WC, et al. **J Hum Hypertens** 1996 Nov;10(11):723–4

Riva-Rocci centenary exhibition: on the occasion of the 16th scientific meeting of the International Society of Hypertension in Glasgow, 23–27 June 1996. O'Brien ET, et al. **J Hum Hypertens** 1996 Nov;10(11):705–21

A century of blood pressure recording. Birbari AE. **J Med Liban** 1996;44(4):236

Ave atque vale: the centenary of clinical sphygmomanometry [see comments] O'Brien E. **Lancet** 1996 Dec 7; 348(9041):1569–70. Comment in: Lancet 1997 Feb 15;349(9050):510.

[Reflections on hypertension in relations to 100 years of Riva-Rocci] Birkenhäger WH, et al. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2600–3 **(Dut)**

[Riva-Rocci 100 years ago] Cosmacini G. **Cardiologia** 1996 Jul;41(7):671–3 **(Ita)**

[The history of blood pressure determination. 100 years of the sphygmomanometer] Introcaso L. **Arq Bras Cardiol** 1996 Nov;67(5):305–11 **(Por)**

[A centennial of two great discoveries in the history of medicine: hyperpiesis and the sphygmomanometer (1896–1996)] Calvo-Vargas CG. **Gac Med Mex** 1996 Sep-Oct;132(5):529–34 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Evaluation of the IITC tail cuff blood pressure recorder in the rat against intraarterial pressure according to criteria for human devices. Jamieson MJ, et al. **Am J Hypertens** 1997 Feb;10(2):209–16

Oscillometric blood pressure measurement: time for a rethink? [letter; comment] Runcie CJ. **Anesth Analg** 1996 Oct;83(4):886–7. Comment on: Anesth Analg 1996 Feb;82(2):377–81.

Ergonomic problems with the Hawksley Random Zero Sphygmomanometer and their effect on recorded blood pressure levels. Conroy RM, et al. **Blood Press** 1996 Jul; 5(4):227–33

Differences in orthostatic blood pressure changes measured with an oscillometric blood pressure monitor and a mercury sphygmomanometer. Iqbal P, et al. **Blood Press** 1996 Jul; 5(4):222–6

Evaluation of a pressure-recording guidewire in patients with coronary arterial disease. Abildgaard A, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):200–7

Reliability of blood pressure determination with the Finapres with altered physiological states or pharmacodynamic conditions. McAuley D, et al. **Clin Auton Res** 1997 Aug; 7(4):179–84

Accuracy of automated finger blood pressure devices. Nesselroad JM, et al. **Fam Med** 1996 Mar;28(3):189–92

The accuracy of the flowrate in flush-devices of disposable pressure transducers. Michel C, et al. **Int J Clin Monit Comput** 1995;12(4):219–24

Mechanisms by which the Hawksley random zero sphygmomanometer underestimates blood pressure and produces a non-random distribution of RZ values. Brown WC, et al. **J Hum Hypertens** 1997 Feb;11(2):75–93

The sphygmomanometer of Riva-Rocci 1896–1996. Brown WC, et al. **J Hum Hypertens** 1996 Nov;10(11):723–4

Commentary: has the random zero sphygmomanometer been exonerated? Churchill D, et al. **J Hum Hypertens** 1997 Feb; 11(2):73–4

Review: a century of confusion; which bladder for accurate blood pressure measurement? O'Brien E. **J Hum Hypertens** 1996 Sep;10(9):565–72 (57 ref.)

A new audiovisual technique for recording blood pressure in research: the Sphygmocorder. O'Brien E, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1734–7

Comparison of blood pressure measurement methods in adult diabetics [letter] [see comments] Raptis AE, et al. **Lancet** 1997 Jan 18;349(9046):175–6. Comment in: Lancet 1997 Mar 1;349(9052):648. Comment in: Lancet 1997 Mar 1;349(9052):648–9. Comment in: Lancet 1997 Apr 5;349(9057):1026.

Mercurial atavism [letter; comment] Rouse W. **Lancet** 1997 Feb 15;349(9050):510. Comment on: Lancet 1996 Dec 7;348(9041):1569–70.

Estimation of arterial blood pressure variability by spectral analysis: comparison between Finapres and invasive measurements. Pinna GD, et al. **Physiol Meas** 1996 Aug; 17(3):147–69

Devices for blood pressure self measurement: tested in comparison. Anlauf M, et al. **Z Kardiol** 1996;85 Suppl 3:20–5

Comparison of home and clinical blood pressure measurements: clinical applications. de Gaudemaris R, et al. **Z Kardiol** 1996;85 Suppl 3:60–5 (37 ref.)

Blood pressure self-measurement in upper arm and in wrist for treatment control of arterial hypertension compared to ABPM. Eckert S, et al. **Z Kardiol** 1996;85 Suppl 3:109–11

Blood pressure measurement during ergometric stress testing. Franz IW. **Z Kardiol** 1996;85 Suppl 3:71–5 (39 ref.)

Blood pressure measurements in epidemiological surveys—time to change? Hense HW, et al. **Z Kardiol** 1996; 85 Suppl 3:66–70

Automated blood pressure measurement during ergometric stress testing: possibilities of Finapres. Imholz BP. **Z Kardiol** 1996;85 Suppl 3:76–80

Indirect measurement of blood pressure without a cuff. Kenner T. **Z Kardiol** 1996;85 Suppl 3:45–50 (27 ref.)

Which requirements must be met by non-invasive blood pressure measuring devices bearing the CE-mark? Mieke S. **Z Kardiol** 1996;85 Suppl 3:8–12

The dilemma of choice: which bladder for accurate blood pressure measurement? O'Brien E. **Z Kardiol** 1996;85 Suppl 3:26–31 (41 ref.)

Devices for blood pressure self-measurement: present and future. Schmidt W. **Z Kardiol** 1996;85 Suppl 3:13–9

Automated blood pressure measurement in children. Steiss JO, et al. **Z Kardiol** 1996;85 Suppl 3:81–4 (36 ref.)

Oscillometric blood pressure measurement: description of the method used. Wonka F. **Z Kardiol** 1996;85 Suppl 3:1–7

[Reproducibility of the blood pressure variability parameters by plethysmographic method (FINAPRES) in normotensive subject] Ragot S, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1029–33 (Eng. Abstr.) **(Fre)**

[Blood pressure self-monitoring: trust is good, control is better. Patient education and monitoring patient blood pressure monitors are necessary] Schweiger A. **Fortschr Med** 1996 Nov 20;114(32):30 **(Ger)**

METHODS

Blood pressure measurement in the hemodialysis setting. Bluestone PA, et al. **Adv Ren Replace Ther** 1997 Apr; 4(2):174–8 (13 ref.)

Development and validation of a noninvasive method to determine arterial pressure and vascular compliance. Brinton TJ, et al. **Am J Cardiol** 1997 Aug 1;80(3):323–30

Systolic hypertension and the white coat phenomenon [editorial] Myers MG. **Am J Hypertens** 1996 Sep; 9(9):938–40

Home self-monitoring of blood pressure: is fully automated oscillometric technique as good as conventional stethoscopic technique? Stergiou GS, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):428–33

Comparison of manual versus automated blood pressure measurements in treated hypertensive patients. Mandal AK, et al. **Am J Med Sci** 1997 Sep;314(3):185–9

Blood pressure measurement in pregnant women in the left lateral recumbent position. Goldkrand JW, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):642–3

Predictive value of distal pressure measurements in critical leg ischaemia. Mätzke S, et al. **Ann Chir Gynaecol** 1996; 85(4):316–21

The dispersion quotients: a new approach for evaluating the blood pressure profile in essential versus Cushing's syndrome hypertensive patients. Gimenez J, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:321–3

Blood pressure difference between arms [letter; comment] Bursztyn M. **Arch Intern Med** 1997 Apr 14;157(7):818. Comment on: Arch Intern Med 1996 Sep 23;156(17):2005–8.

Comparison of the Omron HEM-713C automated blood pressure monitor with a standard auscultatory method using a mercury manometer [see comments] Mufunda J, et al. **Cent Afr J Med** 1996 Aug;42(8):230–2. Comment in: Cent Afr J Med 1996 Oct;42(10):304; discussion 305.

Problems in method comparison studies [letter; comment] Siziya S. **Cent Afr J Med** 1996 Oct;42(10):304; discussion 305. Comment on: Cent Afr J Med 1996 Aug;42(8):230–2.

Reconstruction of brachial artery pressure from noninvasive finger pressure measurements. Bos WJ, et al. **Circulation** 1996 Oct 15;94(8):1870–5

Estimation of central aortic pressure waveform by mathematical transformation of radial tonometry pressure. Validation of generalized transfer function. Chen CH, et al. **Circulation** 1997 Apr 1;95(7):1827–36

Prevalence of hypertension and rate of blood pressure control as assessed by home blood pressure measurements in a rural Japanese community, Ohasama. Nagai K, et al. **Clin Exp Hypertens** 1996 Jul;18(5):713–28

Proper measurement of blood pressure and heart rate in SHRSP and WKY by an indirect volume-oscillometric method. Higashino H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S292–3

Continuous non-invasive measurement of mean blood pressure in fingers by volume-clamp and differential oscillometric method. Jagomägi K, et al. **Clin Physiol** 1996 Sep;16(5):551–60

Pulmonary capillary pressure. Clinical implications. Levy MM. **Crit Care Clin** 1996 Oct;12(4):819–39 (47 ref.)

Non-invasive blood pressure measurements and aortic blood flow velocity in neonates. Rahiala E, et al. **Early Hum Dev** 1997 Sep 19;49(2):107–12

A comparison of non-invasive continuous finger blood pressure measurement (Finapres) with intra-arterial pressure during prolonged head-up tilt. Petersen ME, et al. **Eur Heart J** 1995 Nov;16(11):1641–54

A mathematical study of some biomechanical factors affecting the oscillometric blood pressure measurement. Ursino M, et al. **IEEE Trans Biomed Eng** 1996 Aug; 43(8):761–78

Ankle blood pressure measurement, an acceptable alternative to arm measurements. Block FE, et al. **Int J Clin Monit Comput** 1996 Aug;13(3):167–71

Evaluation of dynamic performance in liquid-filled catheter systems for measuring invasive blood pressure. Todorovic M, et al. **Int J Clin Monit Comput** 1996 Aug;13(3):173–8

A comparison between continuous central venous pressure measurement from right atrium and abdominal vena cava or common iliac vein. Nahum E, et al. **Intensive Care Med** 1996 Jun;22(6):571–4

Variceal and portal pressure measurement: techniques and applications. Armonis A, et al. **Ital J Gastroenterol** 1996 Jun;28(5):272–9 (62 ref.)

The diagnostic value of the measurement of the ankle-brachial systolic pressure index in primary health care. Stoffers HE, et al. **J Clin Epidemiol** 1996 Dec; 49(12):1401–5

Supraorbital artery as an alternative site for oscillometric blood pressure measurement. Lee TK, et al. **J Clin Monit** 1996 Jul;12(4):293–7

Blood pressure reactions to the cold pressor test and the prediction of future blood pressure status: data from the Caerphilly study. Carroll D, et al. **J Hum Hypertens** 1996 Dec;10(12):777–80

Prevalence of positive Osler's manoeuver in 3387 persons screened for the Systolic Hypertension in the Elderly Program (SHEP). Wright JC, et al. **J Hum Hypertens** 1997 May;11(5):285–9

Methodological aspects in the assessment of circadian blood pressure variation in the elderly—authors' reply [letter; comment] James MA, et al. **J Hypertens** 1996 Jun; 14(6):807–8. Comment on: J Hypertens 1996 Mar;14(3):411–2.

Difference between office and ambulatory blood pressure and response to antihypertensive treatment. Parati G, et al. **J Hypertens** 1996 Jun;14(6):791–7

Non-invasive evaluation of arterial abnormalities in hypertensive patients. Asmar RG, et al. **J Hypertens Suppl** 1997 Mar;15(2):S99–107 (57 ref.)

Twenty-four hour ambulatory blood pressure in the population. Nyström F, et al. **J Intern Med** 1996 Nov; 240(5):279–84

Synchronous measurements of blood pressure and red blood cell velocity in capillaries of human skin. Hahn M, et al. **J Invest Dermatol** 1996 Jun;106(6):1256–9

A method for repeated high-fidelity micromanometer measurement of intracardiac pressures. Fanton JW, et al. **J Invest Surg** 1996 May-Jun;9(3):167–73

Comparison of upper arm and calf oscillometric blood pressure measurement in preterm infants. Kunk R, et al. **J Perinatol** 1996 Mar-Apr;16(2 Pt 1):89–92

Variation in measurement of ankle-brachial pressure index in routine clinical practice. Fisher CM, et al. **J Vasc Surg** 1996 Nov;24(5):871–5

Antihypertensive treatment based on conventional or ambulatory blood pressure measurement. A randomized controlled trial. Ambulatory Blood Pressure Monitoring and Treatment of Hypertension Investigators [see comments] Staessen JA, et al. **JAMA** 1997 Oct 1; 278(13):1065–72. Comment in: JAMA 1997 Oct 1;278(13):1110.

Assessment of the accuracy of indirect blood pressure measurements. Ochiai H, et al. **Jpn Heart J** 1997 May; 38(3):393–407

Blood pressure measurement in severe pre-eclampsia [letter] Penny JA, et al. **Lancet** 1997 May 24;349(9064):1518

Comparison of blood pressure measurement methods [letter; comment] [see comments] Shennan AH, et al. **Lancet** 1997 Mar 1;349(9052):648. Comment on: Lancet 1997 Jan 18;349(9046):175–6. Comment in: Lancet 1997 Apr

5;349(9057):1026.
Comparison of blood pressure measurement methods [letter; comment] [see comments] van Ittersum FJ, et al. **Lancet** 1997 Mar 1;349(9052):648–9. Comment on: Lancet 1997 Jan 18;349(9046):175–6. Comment in: Lancet 1997 Apr 5;349(9057):1026.
Standard algorithm for blood pressure measurement by sphygmo–oscillographic method. Sapinski A. **Med Biol Eng Comput** 1996 Jan;34(1):82–3
Ankle to arm index following maximal exercise in normal subjects and athletes. Desvaux B, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):836–9
Blood pressure measurement during exercise: a review. Griffin SE, et al. **Med Sci Sports Exerc** 1997 Jan; 29(1):149–59 (58 ref.)
Blood pressure measurement and standards in children [editorial] Rascher W. **Nephrol Dial Transplant** 1997 May; 12(5):868–70 (12 ref.)
Hypertension in pregnancy: which method of blood pressure measurement is most predictive of outcome? Peek M, et al. **Obstet Gynecol** 1996 Dec;88(6):1030–3
A new technique for monitoring central venous pressures and determining cardiac index in adults. Warring–Davies KJ, et al. **Technol Health Care** 1996 Aug;4(2):233–8
Non–invasive variceal pressure measurements: validation and clinical implications. Nevens F. **Verh K Acad Geneeskd Belg** 1996;58(4):413–37
[Assessment of arterial distensibility by ambulatory monitoring of QKD interval. Reproducibility of the method] Gosse P, et al. **Arch Mal Coeur Vaiss** 1996 Aug; 89(8):975–7 (Eng. Abstr.) **(Fre)**
[Assessment of auscultatory blood pressure measurements versus intra–arterial pressure in patients with atrial fibrillation] Ochiai H, et al. **J Cardiol** 1997 Jun;29(6):331–6 (Eng. Abstr.) **(Jpn)**
[Usefulness of brachial artery pressure with forearm compression as arterial pressure monitoring after cardiopulmonary bypass] Katsuno M. **Masui** 1996 Jan; 45(1):77–81 (Eng. Abstr.) **(Jpn)**
[Indirect measurement of arterial blood pressure by plethysmography] Tase C. **Nippon Rinsho** 1997 Mar;55 Suppl 1:519–22 (10 ref.) **(Jpn)**

PSYCHOLOGY

White coat hypertension in NIDDM patients with and without incipient and overt diabetic nephropathy. Nielsen FS, et al. **Diabetes Care** 1997 May;20(5):859–63
Prognostic significance of the white coat effect. Verdecchia P, et al. **Hypertension** 1997 Jun;29(6):1218–24
Determinants of the white–coat effect in hypertensive subjects. Mansoor GA, et al. **J Hum Hypertens** 1996 Feb; 10(2):87–92

STANDARDS

Evaluation of a rapid protocol for the assessment of salt sensitivity against the blood pressure response to dietary sodium chloride restriction. Galletti F, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):462–6
The reproducibility of Korotkoff 4 and 5 [letter; comment] Penny J, et al. **Am J Hypertens** 1996 Aug;9(8):839. Comment on: Am J Hypertens 1995 Nov;8(11):1083–9.
Proposal of reference values for home blood pressure measurement: prognostic criteria based on a prospective observation of the general population in Ohasama, Japan. Tsuji I, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):409–18
A new approach to reproducibility assessment: clinical evaluation of SpaceLabs Medical oscillometric blood pressure monitor. Sun M, et al. **Biomed Instrum Technol** 1996 Sep–Oct;30(5):439–48
Assessment of blood pressure measurement quality in the baseline surveys of the WHO MONICA project. Hense HW, et al. **J Hum Hypertens** 1995 Dec;9(12):935–46
Blood pressure measurement in the community: do guidelines help? Wingfield D, et al. **J Hum Hypertens** 1996 Dec; 10(12):805–9
Blood pressure measurement and standards in children [editorial] Rascher W. **Nephrol Dial Transplant** 1997 May; 12(5):868–70 (12 ref.)
K5 = diastolic pressure [letter; comment] Alpert BS, et al. **Pediatrics** 1996 Nov;98(5):1002. Comment on: Pediatrics 1996 Oct;98(4 Pt 1):649–58.
[Reliability of arterial blood pressure measurement in an arterial hypertension study] Leão de Aquino EM, et al. **Arq Bras Cardiol** 1996 Jan;66(1):21–4 (Eng. Abstr.) **(Por)**

STATISTICS & NUMERICAL DATA

Adaptive noise removal from biomedical signals using warped polynomials. Philips W. **IEEE Trans Biomed Eng** 1996 May;43(5):480–92
Statistical analysis of intraclass correlations from multiple samples with applications to arterial blood pressure data. Mian IU, et al. **Stat Med** 1997 Jul 15;16(13):1497–514
[Do we adequately use the sphygmomanometer for improving the prevention of arterial hypertension in primary care? (see comments)] Antón Garcia F, et al. **Aten Primaria** 1996 Oct 15;18(6):321–3 (Eng. Abstr.). Comment in: Aten Primaria 1997 May 15;19(8):445–6. **(Spa)**

TRENDS

A century of indirect blood pressure measurement. Back to basics [editorial; comment] Cushman WC. **Arch Intern Med** 1996 Sep 23;156(17):1922–3 (15 ref.). Comment on: Arch Intern Med 1996 Sep 23;156(17):1983–9.
Frontiers in blood pressure measurement, a century after Riva–Rocci. Proceedings of a meeting. Bad Oeynhausen, Germany, January 1996. **Z Kardiol** 1996;85 Suppl 3:III–IV, 1–147
Perspective for the 21st century—overview. O'Rourke MF. **Z Kardiol** 1996;85 Suppl 3:143–5

VETERINARY

Comparison of blood pressure measurements obtained in dogs by use of indirect oscillometry in a veterinary clinic versus at home. Kallet AJ, et al. **J Am Vet Med Assoc** 1997 Mar 1;210(5):651–4
Arterial blood pressure monitoring in anesthetized animals. Wagner AE, et al. **J Am Vet Med Assoc** 1997 May 1; 210(9):1279–85 (74 ref.)
Noninvasive versus invasive blood pressure measurement in normotensive and hypotensive baboons. Hartford CG, et al. **Lab Anim Sci** 1996 Apr;46(2):231–3
Comparison of direct and indirect (oscillometric) measurements of arterial blood pressure in conscious dogs. Bodey AR, et al. **Res Vet Sci** 1996 Jul;61(1):17–21

BLOOD PRESSURE, HIGH see **HYPERTENSION**

BLOOD PRESSURE, LOW see **HYPOTENSION**

BLOOD PRESSURE MONITORING, AMBULATORY

Treatment of hypertensive patients according to the conventional or ambulatory pressure: a progress report on the APTH trial. APTH Investigators. Ambulatory Blood Pressure and Treatment of Hypertension. Bieniaszewski L, et al. **Acta Cardiol** 1996;51(3):243–51
Ambulatory intraarterial blood pressure in essential hypertension. Effects of age, sex, race, and body mass—the Northwick Park Hospital Database Study. Acharya DU, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):943–52
Relation of stress testing and ambulatory blood pressure to hypertensive cardiac damage. Cardillo C, et al. **Am J Hypertens** 1996 Feb;9(2):162–70
Clinical relevance of 24 h blood pressure control by 1,4–dihydropyridines. Leenen FH. **Am J Hypertens** 1996 Oct;9(10 Pt 2):97S–104S; discussion 108S–109S (61 ref.)
Angiotensin converting enzyme gene polymorphism in essential hypertension based on ambulatory blood pressure monitoring. Maeda Y, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):786–9
What time is the "biologic zero hour" of circadian variability? Okutani M, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):756–62
Recommendations for the use of home (self) and ambulatory blood pressure monitoring. American Society of Hypertension Ad Hoc Panel. Pickering T. **Am J Hypertens** 1996 Jan;9(1):1–11
Reproducibility of home blood pressure measurements over a 1–year period. Sakuma M, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):798–803
Home self–monitoring of blood pressure: is fully automated oscillometric technique as good as conventional stethoscopic technique? Stergiou GS, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):428–33
Relevance of the trough–to–peak ratio to the 24 h blood pressure load. White WB. **Am J Hypertens** 1996 Oct;9(10 Pt 2):91S–96S; discussion 108S–109S (18 ref.)
Ambulatory blood pressure monitoring (ABPM) in the normal menstrual cycle and in women using oral contraceptives. Comparison with conventional blood pressure measurement. Williamson PM, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):953–8
Ambulatory blood pressure monitoring in dialysis patients and estimation of mean interdialytic blood pressure. Coomer RW, et al. **Am J Kidney Dis** 1997 May; 29(5):678–84
Ambulatory blood pressure monitoring in renal dialysis and transplant patients. Goldsmith DJ, et al. **Am J Kidney Dis** 1997 Apr;29(4):593–600
Classic papers symposium: ambulatory blood pressure monitoring and hypertensive target organ damage. DiPette DJ, et al. **Am J Med Sci** 1996 Nov;312(5):221–4
Ambulatory blood pressure monitoring in diagnosing a pheochromocytoma of the urinary bladder. A case report. Fujishima S, et al. **Angiology** 1997 Jul;48(7):655–8
Ambulatory blood pressure monitoring in clinical trials. Bieniaszewski L, et al. **Ann N Y Acad Sci** 1996 Aug 15; 783:295–303 (75 ref.)
Quantal estimation of hypertension and hypertensive damage in the chronodiagnostic evaluation of ambulatory blood pressure monitoring. Cugini P. **Ann N Y Acad Sci** 1996 Aug 15;783:313–6
Ambulatory blood pressure monitoring in normotensive smokers and nonsmokers. Kawasaki T, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:328–9
Reproducibility of ambulatory blood pressure measurement in renal hypertension. Dippers and non–dippers. Liebisch B, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:333–4
Ambulatory blood pressure monitoring. Application to clinical medicine and antihypertension medication trials. Smolensky MH, et al. **Ann N Y Acad Sci** 1996 Aug 15; 783:278–94 (171 ref.)
Work performance evaluation in patients suffering from hypertension. Muše–Danielov M, et al. **Arh Hig Rada Toksikol** 1996 Sep;47(3):261–9
Ambulatory blood pressure monitoring in the ELSA study. European Lacidipine Study on Atherosclerosis. Mancia G, et al. **Blood Press Suppl** 1996;4:36–8
Ambulatory monitoring of blood pressure should be restricted to scientific research [letter; comment] Brueren M. **BMJ** 1996 Nov 23;313(7068):1334. Comment on: BMJ 1996 Aug 17;313(7054):404–6.
Ambulatory blood pressure monitoring: a guide for general practitioners. Prasad N, et al. **BMJ** 1996 Dec 14; 313(7071):1535–41 (46 ref.)
24–hour blood pressure monitoring to evaluate the effects of nifedipine in pre–eclampsia and in chronic hypertension in pregnancy. Benedetto C, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):682–8
Can 24–hour ambulatory blood pressure measurement predict the development of hypertension in primigravidae? [published erratum appears in Br J Obstet Gynaecol 1997 Aug;104(8):974] Higgins JR, et al. **Br J Obstet Gynaecol** 1997 Mar;104(3):356–62
Ambulatory blood pressure monitoring: guidelines for use in clinical practice. Myers MG. **Can J Cardiol** 1996 Dec; 12(12):1271–5
Ambulatory blood pressure measurement: what is the use? [editorial] Dal Palù C. **Cardiologia** 1997 May;42(5):447–51 (49 ref.)
Clinical features of subjects with mitral valve prolapse: a study with 24–hour ambulatory blood pressure monitoring. Cassone R, et al. **Cardiology** 1996 Sep–Oct;87(5):374–8
24 hour blood pressure control with once–daily versus twice–daily formulations of diltiazem. Ruddy TD, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):799–807
Ambulatory blood pressure is superior to clinic blood pressure in predicting treatment–induced regression of left ventricular hypertrophy. SAMPLE Study Group. Study on Ambulatory Monitoring of Blood Pressure and Lisinopril Evaluation [published erratum appears in Circulation 1997 Aug 5;96(3):1065] Mancia G, et al. **Circulation** 1997 Mar 18;95(6):1464–70
Long–term reproducibility and usefulness of daytime recording of noninvasive 24–hour ambulatory blood pressure monitoring in borderline hypertension: a two–year follow–up study. Asagami T, et al. **Clin Exp Hypertens** 1996 Jul;18(5):637–57
Relation of 24–hour ambulatory blood pressure and short–term blood pressure variability to seasonal changes in environmental temperature in stage I hypertensive subjects. Results of the Harvest Trial. Winnicki M, et al. **Clin Exp Hypertens** 1996 Nov;18(8):995–1012
24–hour blood pressure monitoring in children and adolescents after recovery from hemolytic uremic syndrome. Bald M, et al. **Clin Nephrol** 1996 Jul;46(1):50–3
Influence of cyclosporine A and FK506 on 24 h blood pressure monitoring in kidney transplant recipients. Hohage H, et al. **Clin Nephrol** 1996 May;45(5):342–4
Pharmacokinetic profile of cyclosporine A after conversion to Sandimmun Optoral: influence on ambulatory blood pressure in renal transplant patients. Schwertfeger E, et al. **Clin Nephrol** 1996 May;45(5):349–51
White coat hypertension in NIDDM patients with and without incipient and overt diabetic nephropathy. Nielsen FS, et al. **Diabetes Care** 1997 May;20(5):859–63
Simultaneous 24–hour monitoring of intraocular pressure and arterial blood pressure in patients with progressive and non–progressive primary open–angle glaucoma. Detry M, et al. **Eur J Ophthalmol** 1996 Jul–Sep;6(3):273–8
Ambulatory blood pressure monitoring in evaluating the prevalence of hypertension in adults in Ohasama, a rural Japanese community. Imai Y, et al. **Hypertens Res** 1996 Sep;19(3):207–12
Prediction of cardiac structure and function by repeated clinic and ambulatory blood pressure. Fagard RH, et al. **Hypertension** 1997 Jan;29(1 Pt 1):22–9
Nocturnal decline in blood pressure is attenuated by NaCl loading in salt–sensitive patients with essential hypertension: noninvasive 24–hour ambulatory blood pressure monitoring. Higashi Y, et al. **Hypertension** 1997 Aug;30(2 Pt 1):163–7
Blood pressure level and variability in the prediction of blood pressure after 5–year follow–up. Majahalme S, et al. **Hypertension** 1996 Nov;28(5):725–31
Confirmation or exclusion of stage I hypertension by ambulatory blood pressure monitoring. Moore CR, et al. **Hypertension** 1997 May;29(5):1109–13
Ambulatory and home blood pressure normality in the elderly: data from the PAMELA population. Sega R, et al. **Hypertension** 1997 Jul;30(1 Pt 1):1–6
Nocturnal blood pressure fall on ambulatory monitoring in a large international database. The "Ad Hoc" Working Group. Staessen JA, et al. **Hypertension** 1997 Jan;29(1 Pt 1):30–9
Endogenous beta–endorphins in hypertension: correlation with 24–hour ambulatory blood pressure [published erratum appears in J Am Coll Cardiol 1997 Feb;29(2):474] Guasti L, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1243–8

Comprehensive pharmaceutical care in the chain setting. Park JJ, et al. **J Am Pharm Assoc (Wash)** 1996 Jul; NS36(7):443–51

Ambulatory blood pressure monitoring: coming of age in nephrology. Townsend RR, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2279–87 (47 ref.)

Performance of the AM–5600 blood pressure monitor: comparison with ambulatory intra–arterial pressure. Omboni S, et al. **J Appl Physiol** 1997 Feb;82(2):698–703

Assessment of antihypertensive effect by blood pressure monitoring: applications to bisoprolol and lisinopril in a double–blind study. Vaïsse B, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):612–7

Comparison of enalapril to captopril by 24–hour ambulatory blood pressure monitoring. Bental T, et al. **J Clin Pharmacol** 1997 Jun;37(6):514–9

Ambulatory blood pressure in insulin–dependent diabetes: the relation to stages of diabetic kidney disease. Hansen KW. **J Diabetes Complications** 1996 Nov–Dec;10(6):331–51

Ambulatory blood pressure monitoring for evaluation of long–acting beta–blockers in Taiwan. Tseng CD, et al. **J Formos Med Assoc** 1996 Apr;95(4):320–4

Continuous blood pressure monitoring in cirrhosis. Relations to splanchnic and systemic haemodynamics. Møller S, et al. **J Hepatol** 1997 Aug;27(2):284–94

The siesta and ambulatory blood pressure: is waking up the same in the morning and afternoon? Bursztyn M, et al. **J Hum Hypertens** 1996 May;10(5):287–92

Patients' perceptions of changes in their blood pressure. Cantillon P, et al. **J Hum Hypertens** 1997 Apr;11(4):221–5

Ambulatory blood pressure monitoring in hemodialysis patients. Elisaf M, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S43–7

Variation of ambulatory blood pressure in healthy middle–aged men. Loimaala A, et al. **J Hum Hypertens** 1997 Apr;11(4):227–31

Ambulatory blood pressure monitoring in treated hypertensive patients––implications for clinical practice. Myers MG. **J Hum Hypertens** 1996 Feb;10 Suppl 2:527–31 (15 ref.)

Ambulatory daytime blood pressure in relation to age and gender compared to previous population studies based on office blood pressure. The Danish Study Group on Ambulatory Blood Pressure. Nielsen PE, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S55–8

Ambulatory blood pressure monitoring in normotensive pregnant women. Siamopoulos KC, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S51–4

Effects of moderate salt restriction alone and in combination with cilazapril on office and ambulatory blood pressure. Uusitupa M, et al. **J Hum Hypertens** 1996 May;10(5):319–26

Twenty–four–hour ambulatory blood pressure in old and very old subjects. Fotherby MD, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1742–6

Ambulatory blood pressure normality: results from the PAMELA study [see comments] Mancia G, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1377–90. Comment in: J Hypertens 1996 Jul;14(7):927–8.

Prediction of mortality by ambulatory blood pressure monitoring versus screening blood pressure measurements: a pilot study in Ohasama. Ohkubo T, et al. **J Hypertens** 1997 Apr;15(4):357–64

Accuracy of twenty–four–hour ambulatory blood pressure monitoring (night–day values) for the diagnosis of secondary hypertension. Polonia J, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1738–41

Omega–3 polyunsaturated fatty acid supplements and ambulatory blood pressure monitoring parameters in patients with mild essential hypertension. Russo C, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1823–6

Non–invasive ambulatory blood pressure variability and cardiac baroreflex sensitivity. Siche JP, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1654–9

Participation rate in the Belgian population study on ambulatory blood pressure monitoring [letter; comment] Staessen JA. **J Hypertens** 1996 Oct;14(10):1257. Comment on: J Hypertens 1996 Jul;14(7):927–8.

Circulating adrenaline is not involved in the circadian blood pressure profile. van der Steen MS, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1585–8

Salt, resting arterial pressure and 24 h monitoring [letter; comment] Zoccali C. **J Hypertens** 1997 Apr;15(4):458. Comment on: J Hypertens 1996 Dec;14(12):1455–9.

Does ambulatory monitoring make saltier salt sensitivity studies? [letter; comment] Zoccali C, et al. **J Hypertens** 1997 Jan;15(1):100–1. Comment on: J Hypertens 1996 Dec;14(12):1461–2.

Assessment of antihypertensive treatment by ambulatory blood pressure. Mancia G, et al. **J Hypertens Suppl** 1997 Mar;15(2):S43–50 (26 ref.)

Ambulatory blood pressure monitoring. Mancia G, et al. **J Hypertens Suppl** 1996 Sep;14(2):S61–6; discussion S66–8 (41 ref.)

Twenty–four–hour blood pressure control: a brief review of aspects of target–organ protection. Myers MG. **J Hypertens Suppl** 1996 Dec;14(6):S7–10 (17 ref.)

Twenty–four–hour ambulatory blood pressure monitoring: now that technology has come of age––we need to catch up [editorial; comment] Alpert BS, et al. **J Pediatr** 1997 Feb;130(2):167–9 (28 ref.). Comment on: J Pediatr 1997 Feb;130(2):178–84.

Oscillometric twenty–four–hour ambulatory blood pressure values in healthy children and adolescents: a multicenter trial including 1141 subjects [see comments] Soergel M, et al. **J Pediatr** 1997 Feb;130(2):178–84. Comment in: J Pediatr 1997 Feb;130(2):167–9.

A new role for ambulatory blood pressure monitoring? [editorial; comment] Pickering TG. **JAMA** 1997 Oct 1; 278(13):1110. Comment on: JAMA 1997 Oct 1;278(13):1065–72.

Lessons to be learned from 24–hour ambulatory blood pressure monitoring. Mancia G, et al. **Kidney Int Suppl** 1996 Jun;55:S63–8 (31 ref.)

White–coat hypertension [letter; comment] Krakoff LR, et al. **Lancet** 1996 Nov 23;348(9039):1443–4; discussion 1445–6 . Comment on: Lancet 1996 Sep 7;348(9028):654–7.

Relationship of ambulatory blood pressure monitoring data to echocardiographic findings in haemodialysis patients. Ertürk S, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2050–4

Left ventricular hypertrophy and ambulatory blood pressure monitoring in chronic renal failure. Tucker B, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):724–8

Twenty–four–hour ambulatory blood pressure profiles in pediatric patients after renal transplantation. Lingens N, et al. **Pediatr Nephrol** 1997 Feb;11(1):23–6

The relevance of continuous blood pressure monitoring in examining the relationship of memory efficiency with blood pressure characteristics. Fioravanti M, et al. **Physiol Behav** 1996 Jun;59(6):1077–84

Daily mood states and ambulatory blood pressure. Shapiro D, et al. **Psychophysiology** 1997 Jul;34(4):399–405

Ambulatory blood pressure monitoring in hypertension. Prasad N, et al. **QJM** 1996 Feb;89(2):95–102 (75 ref.)

Renal dysfunction and early differences in twenty–four–hour ambulatory blood pressure monitoring in subjects predisposed for essential hypertension. Lozance L, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:197–9

Ambulatory blood pressure monitoring in acute stroke. The West Birmingham Stroke Project. Lip GY, et al. **Stroke** 1997 Jan;28(1):31–5

[Round–the–clock blood pressure measurements in 352 persons––a reference material] Bang LE, et al. **Ugeskr Laeger** 1996 Dec 2;158(49):7084–91 (Eng. Abstr.) **(Dan)**

[Diagnosis and therapy of hypertension with renal artery stenosis (letter; comment)] van Venrooij FV, et al. **Ned Tijdschr Geneeskd** 1997 Jan 4;141(1):64–5. Comment on: Ned Tijdschr Geneeskd 1996 Oct 26;140(43):2114–8. **(Dut)**

[Presentation of OCTAVE II. A current epidemiologic study in France of the added prognostic value of ambulatory blood pressure monitoring] Gueyffier F, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1381–8 (Eng. Abstr.) **(Fre)**

[Nocturnal regulation of blood pressure in the diabetic] Julien J. **Journ Annu Diabetol Hotel Dieu** 1996;:267–71 (20 ref.) **(Fre)**

[Ambulatory blood pressure measurement: clinical significance and prognostic evaluation of nocturnal arterial hypertension] S Ciaroni, et al. **Schweiz Rundsch Med Prax** 1997 Jan 7;86(1–2):17–22 (Eng. Abstr.) **(Fre)**

[Self–monitoring of blood pressure] Weber F, et al. **Dtsch Med Wochenschr** 1997 Mar 14;122(11):335–8 (46 ref.) **(Ger)**

[Efficacy of benazepril monotherapy in moderate essential hypertension studied by automatic ambulatory blood pressure monitoring] Páll D, et al. **Orv Hetil** 1996 Sep 8; 137(36):1973–8 (Eng. Abstr.) **(Hun)**

[Study of 24–hour changes in blood pressure in various stages of diabetic nephropathy] Tóth L, et al. **Orv Hetil** 1997 Aug 31;138(35):2175–8 (Eng. Abstr.) **(Hun)**

[Ambulatory blood pressure monitoring. Clinical use. Is this the right time? (editorial)] Bignotti M, et al. **Minerva Cardioangiol** 1996 Oct;44(10):467–70 (Eng. Abstr.) **(Ita)**

[Hypertensive cardiac damage in heart transplantation. A noninvasive monitoring study of arterial pressure] Cugini P, et al. **Recenti Prog Med** 1996 Oct;87(10):460–5 (Eng. Abstr.) **(Ita)**

[Who are the "non–dippers": an insight from the ambulatory monitoring of arterial pressure in heart transplant patients] Cugini P, et al. **Recenti Prog Med** 1997 May;88(5):212–6 (Eng. Abstr.) **(Ita)**

[Ambulatory blood pressure monitoring] Tochikubo O. **Nippon Rinsho** 1997 Mar;55 Suppl 1:523–6 (12 ref.) **(Jpn)**

[Case of a hypertensive centenarian who was able to record 24–hr ambulatory blood pressure] Akisaka M, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):43–6 (Eng. Abstr.) **(Jpn)**

[Home blood pressure measurement in general practice patients] Sandvik E, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2566–9 (Eng. Abstr.) **(Nor)**

[24–hour arterial pressure study and diabetic neuropathy and angiopathy of the lower limbs] Ribeiro C, et al. **Acta Med Port** 1997 Jan;10(1):33–8 (Eng. Abstr.) **(Por)**

[Ambulatory blood pressure monitoring in the therapeutic assessment of arterial hypertension] Amodeo C. **Arq Bras Cardiol** 1996 Aug;67(2):143–4 **(Por)**

[Ambulatory blood pressure monitoring as a method for prognosis assessment in arterial hypertension] Giorgi DM. **Arq Bras Cardiol** 1996 Aug;67(2):145–8 (30 ref.) **(Por)**

[Effects of physical conditioning on ambulatory blood pressure monitoring in normotensive and hypertensive patients] Lima EG, et al. **Arq Bras Cardiol** 1996 Sep; 67(3):185–8 (26 ref.) **(Por)**

[Arterial hypertension and the predisposing factors of left atrial dilatation. A prospective 2–dimensional echocardiographic analysis and ambulatory blood pressure monitoring] Arroja I, et al. **Rev Port Cardiol** 1997 Jan; 16(1):69–74 **(Por)**

[The importance of monitoring arterial pressure in the diagnosis and treatment of hypertension] Simonenko VB, et al. **Voen Med Zh** 1997 Jul;318(7):39–42 (23 ref.) **(Rus)**

[Continuous ambulatory blood pressure measurement––a new method for the detection of arterial hypertension in children] Peco–Antić A, et al. **Srp Arh Celok Lek** 1997 May–Jun;125(5–6):171–5 (Eng. Abstr.) **(Scc)**

[Continuous ambulatory measurement of blood pressure in children––personal experience] Peco–Antić A, et al. **Srp Arh Celok Lek** 1997 Jul–Aug;125(7–8):197–202 (Eng. Abstr.) **(Scc)**

[Continuous blood pressure monitoring over a 24–hour period in children with terminal renal failure treated with hemodialysis] Pejčić I, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:94–6 (Eng. Abstr.) **(Scc)**

[Ambulatory monitoring of arterial pressure in the treatment of mild–moderate arterial hypertension with lisinopril vs. enalapril] Motero Carrasco J. **Arch Inst Cardiol Mex** 1997 Jan–Feb;67(1):29–37 (Eng. Abstr.) **(Spa)**

["White coat" hypertension in primary care. Study using ambulatory blood pressure monitoring] Márquez Contreras E, et al. **Aten Primaria** 1996 Oct 31;18(7):373–7 (Eng. Abstr.) **(Spa)**

[Hypertensive patients with poor blood pressure control in clinic. Study using ambulatory blood pressure monitoring] Vinyoles E, et al. **Aten Primaria** 1996 Oct 31;18(7):351–6 (Eng. Abstr.) **(Spa)**

[Different arterial pressure patterns during ambulatory monitoring in hypertensive patients of both sexes are not associated with different cardiovascular impact (published erratum appears in Med Clin (Barc) 1996 Dec 7;107(20):766)] Pose–Reino A, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):490–4 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Acceptance and side effects of ambulatory blood pressure monitoring: evaluation of a new technology. Beltman FW, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S39–42

INSTRUMENTATION

Simultaneous and sequential same–arm measurements in the validation studies of automated blood pressure measuring devices. Livi R, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1228–31

Factors confounding assessment of ambulatory blood pressure monitors, studied during formal evaluation of the Tycos Quiet–Trak. O'Shea JC, et al. **Am J Hypertens** 1997 Feb;10(2):175–80

SpaceLabs 90207 and Accutracker II ambulatory blood pressure monitors in pregnancy [letter; comment] O'Brien E. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):751–2. Comment on: Am J Obstet Gynecol 1995 Jul;173(1):218–23.

A portable data logger for recording behavioral and environmental determinants of blood pressure during ambulatory monitoring. Ghione S, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:317–20

An assessment of blood pressure measurement in a diabetic clinic using random–zero, semi–automated, and 24–hour monitoring. Sturrock ND, et al. **Diabet Med** 1997 May; 14(5):370–5

Validation of a telemetry system for long–term measurement of blood pressure. Brooks D, et al. **J Appl Physiol** 1996 Aug;81(2):1012–8

Telemetry monitoring of pulmonary arterial pressure in freely moving rats. Hess P, et al. **J Appl Physiol** 1996 Aug; 81(2):1027–32

Evaluation of the Critikon 8100 and Spacelabs 90207 non–invasive blood pressure monitors using a test simulator. Amoore JN, et al. **J Hum Hypertens** 1997 Mar; 11(3):163–9

Factors influencing validation of ambulatory blood pressure measuring devices. O'Brien E, et al. **J Hypertens** 1995 Nov; 13(11):1235–40 (48 ref.)

Non–invasive estimations of ventricular ejection time and stroke volume: comparison of impedance cardiography and the Portapres 2. Fahrenberg J, et al. **J Med Eng Technol** 1997 Jan–Feb;21(1):15–22

Accuracy of DINAMAP monitors [letter; comment] Friedman B. **Lancet** 1997 Jul 19;350(9072):217–8. Comment on: Lancet 1997 Apr 5;349(9057):1026.

Ambulatory instrument for monitoring indirect beat–to–beat blood pressure in superficial temporal artery using volume–compensation method. Tanaka S, et al. **Med Biol Eng Comput** 1996 Nov;34(6):441–7

[Evaluation of the accuracy of arterial pressure measurements with different types of devices used for self–monitoring] Bołtuć J, et al. **Wiad Lek** 1996;49(1–6):3–9 (Eng. Abstr.) **(Pol)**

METHODS

Prognostic value of ambulatory measurement of the timing

of Korotkoff sounds in elderly hypertensives: a pilot study. Gosse P, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):552–7

Body mass index is associated with differential seasonal change in ambulatory blood pressure levels. Kristal-Boneh E, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1179–85

Ambulatory blood pressure monitoring in patients with single chamber ventricular pacemakers (VVI pacing mode) [letter] Lip GY, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1240–1

Comparison of manual versus automated blood pressure measurements in treated hypertensive patients. Mandal AK, et al. **Am J Med Sci** 1997 Sep;314(3):185–9

Validation of a telemetry system for long-term measurement of blood pressure. Brooks D, et al. **J Appl Physiol** 1996 Aug;81(2):1012–8

Considerations on the PAMELA study results concerning ambulatory blood pressure normality [letter; comment] [see comments] Prattichizzo FA. **J Hypertens** 1996 Jul; 14(7):927–8. Comment on: J Hypertens 1995 Dec;13(12 Pt 1):1377–90. Comment in: J Hypertens 1996 Oct;14(10):1257.

Individual assessment of antihypertensive response by self-starting cumulative sums. Cornélissen G, et al. **J Med Eng Technol** 1997 May-Aug;21(3–4):111–20

A home electrocardiography and blood pressure telemonitoring system. Bai J, et al. **J Telemed Telecare** 1997; 3 Suppl 1:1–2

Calcium antagonists, a useful additional therapy in treatment resistant hypertension: comparison of felodipine ER and nifedipine Retard by 24-h ambulatory blood pressure monitoring. Dees A, et al. **Neth J Med** 1997 Jan;50(1):2–12

Ambulatory blood pressure reproducibility and application of the method in a healthy Finnish cohort. Hietanen E, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):471–80

[Ambulatory 24-hour blood pressure monitoring. A comparative study of oscillometric and auscultatory blood pressure measurement] Raymond IE, et al. **Ugeskr Laeger** 1997 Sep 8;159(37):5519–24 (Eng. Abstr.) **(Dan)**

[Use of ambulatory blood pressure monitoring in clinical practice] Malachias MV, et al. **Arq Bras Cardiol** 1996 Aug; 67(2):135–8 **(Por)**

STANDARDS

Ambulatory blood pressure monitoring during pregnancy: establishment of standards of normalcy [letter] Halligan A, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1240

Ambulatory blood pressure monitoring editing criteria: is standardization needed? Hypertension and Ambulatory Recording Venetia Study (HARVEST) Group, Italy. Winnicki M, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):419–27

Defining the regulatory role of ambulatory blood pressure monitoring. ABPM Steering Committee. Lipicky RJ, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:304–307

Accuracy of oscillometric blood pressure monitoring in pregnancy and pre-eclampsia. Gupta M, et al. **Br J Obstet Gynaecol** 1997 Mar;104(3):350–5

Considerations on the PAMELA study results concerning ambulatory blood pressure normality [letter; comment] [see comments] Prattichizzo FA. **J Hypertens** 1996 Jul; 14(7):927–8. Comment on: J Hypertens 1995 Dec;13(12 Pt 1):1377–90. Comment in: J Hypertens 1996 Oct;14(10):1257.

Construction of age-related reference limits for 24-h blood pressure pattern. Cugini P, et al. **J Med Eng Technol** 1997 May-Aug;21(3–4):126–34

Non-invasive estimations of ventricular ejection time and stroke volume: comparison of impedance cardiography and the Portapres 2. Fahrenberg J, et al. **J Med Eng Technol** 1997 Jan-Feb;21(1):15–22

[Characteristics of accuracy of mean daily arterial pressure in ambulatory monitoring] Vilkov VG, et al. **Fiziol Cheloveka** 1996 Jul-Aug;22(4):96–9 **(Rus)**

STATISTICS & NUMERICAL DATA

[An analysis of the indices of ambulatory circadian blood pressure monitoring in patients with arterial hypertension] Leonova MV, et al. **Ter Arkh** 1997;69(1):35–8 (Eng. Abstr.) **(Rus)**

TRENDS

Ambulatory blood pressure recording in clinical practice. Current use and future direction [editorial] McGrath BP. **Aust Fam Physician** 1996 Oct;25(10):1517–9

BLOOD PRESSURE MONITORS

Accuracy of the Dinamap 8100 [letter; comment] O'Brien E. **Am J Hypertens** 1997 Jan;10(1):143–4. Comment on: Am J Hypertens 1996 Mar;9(3):256–62.

SpaceLabs 90207 and Accutracker II ambulatory blood pressure monitors in pregnancy [letter; comment] O'Brien E. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):751–2. Comment on: Am J Obstet Gynecol 1995 Jul;173(1):218–23.

Use of a neonatal noninvasive blood pressure module on adult patients. Green DW. **Anaesthesia** 1996 Dec;51(12):1129–32

Nasogastric contents short-circuit pressure transducer [letter] McDermott M, et al. **Anaesthesia** 1997 Jul;52(7):719

Oscillometric blood pressure measurement: time for a rethink? [letter; comment] Runcie CJ. **Anesth Analg** 1996 Oct;83(4):886–7. Comment on: Anesth Analg 1996 Feb;82(2):377–81.

Blood pressure measurements and intravenous infusions: a simple clamp to prevent retrograde blood flow [letter] Lundberg J, et al. **Anesthesiology** 1996 Oct;85(4):943

Automatic postoperative monitoring of infrainguinal bypass procedures. Blebea J, et al. **Arch Surg** 1997 Mar; 132(3):286–91

Fiber optic pressure sensor for biomedical applications. Narendran N, et al. **ASAIO J** 1996 Sep-Oct;42(5):M500–6

A new approach to reproducibility assessment: clinical evaluation of SpaceLabs Medical oscillometric blood pressure monitor. Sun M, et al. **Biomed Instrum Technol** 1996 Sep-Oct;30(5):439–48

Using continuous pressure monitoring to aid central vein cannulation [letter] Alexander R. **Can J Anaesth** 1997 Jan; 44(1):99–100

Ischaemia of the hand after radial artery monitoring. Sfeir R, et al. **Cardiovasc Surg** 1996 Aug;4(4):456–8

Accuracy and reliability of noninvasive continuous finger blood pressure measurement in critically ill patients. Hirschl MM, et al. **Crit Care Med** 1996 Oct;24(10):1684–9

An assessment of blood pressure measurement in a diabetic clinic using random-zero, semi-automated, and 24-hour monitoring. Sturrock ND, et al. **Diabet Med** 1997 May; 14(5):370–5

Gender differences in the relationship between left ventricular size and ambulatory blood pressure in borderline hypertension. The HARVEST Study. Vriz O, et al. **Eur Heart J** 1997 Apr;18(4):664–70

Transatrial access for left atrial pressure monitoring in cardiac surgery patients. Zahorec R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):379–80

Incremental bias in Finapres estimation of baseline blood pressure levels over time. Ristuccia HL, et al. **Hypertension** 1997 Apr;29(4):1039–43

Hostility, social support, and ambulatory cardiovascular activity. Benotsch EG, et al. **J Behav Med** 1997 Apr; 20(2):163–76

The effects of caffeine on ambulatory blood pressure, heart rate, and mood in coffee drinkers. Green PJ, et al. **J Behav Med** 1996 Apr;19(2):111–28

Equivalence of fast flush and square wave testing of blood pressure monitoring systems. Kleinman B, et al. **J Clin Monit** 1996 Mar;12(2):149–54

Clinical evaluation of an automatic blood pressure controller during cardiac surgery. Meijers RH, et al. **J Clin Monit** 1997 Jul;13(4):261–8

Arterial tonometry and assessment of cardiovascular alterations with chiropractic spinal manipulative therapy. Driscoll MD. **J Manipulative Physiol Ther** 1997 Jan; 20(1):47–55 (95 ref.)

An arm phantom: a digital simulation system for testing sphygmomanometers. Gross H, et al. **J Med Eng Technol** 1996 Mar-Apr;20(2):75–83

Radial artery blood pressure measurement in neonates: an accurate and convenient technique in clinical practice. Gevers M, et al. **J Perinat Med** 1995;23(6):467–75

Oscillometric non-invasive blood pressure measurements: the influence of the make of instrument on readings? Amoore JN, et al. **Med Biol Eng Comput** 1997 Mar;35(2):131–4

Ambulatory instrument for monitoring indirect beat-to-beat blood pressure in superficial temporal artery using volume-compensation method. Tanaka S, et al. **Med Biol Eng Comput** 1996 Nov;34(6):441–7

Electronic, automatic sphygmomanometers. Nobel JJ. **Pediatr Emerg Care** 1996 Dec;12(6):442–4

24-hour recordings of blood pressure, heart rate and behavioural activity in rabbits by radio-telemetry: effects of feeding and hypertension. van den Buuse M, et al. **Physiol Behav** 1997 Jul;62(1):83–9

Job strain and ambulatory blood pressure levels in a population-based employed sample of men from northern Italy. Cesana G, et al. **Scand J Work Environ Health** 1996 Aug;22(4):294–305

Blood pressure monitoring at the wrist: is it reliable in children and adolescents? Bald M, et al. **Z Kardiol** 1996; 85 Suppl 3:106–8

Blood pressure self-measurement in upper arm and in wrist for treatment control of arterial hypertension compared to ABPM. Eckert S, et al. **Z Kardiol** 1996;85 Suppl 3:109–11

Automated blood pressure measurement in special situations: patients with chronic atrial fibrillation or chronic aortic regurgitation. Eckert S, et al. **Z Kardiol** 1996;85 Suppl 3:92–8

Assessment of the nocturnal blood pressure relative to sleep stages in patients with obstructive sleep apnea. Grote L, et al. **Z Kardiol** 1996;85 Suppl 3:112–4

Monitoring antihypertensive therapy through blood pressure measurements taken casually, at rest, during exercise, and under outpatient conditions. Hammerschmidt R, et al. **Z Kardiol** 1996;85 Suppl 3:115–7

Circadian variation of blood pressure in normo- and hypertensive diabetic patients with and without nephropathy. Kempe HP, et al. **Z Kardiol** 1996;85 Suppl 3:118–20

Ambulatory blood pressure measuring devices. Krönig B. **Z Kardiol** 1996;85 Suppl 3:32–7

Hypertension and obstructive sleep apnea. Ambulatory blood pressure monitoring before and with nCPAP-therapy. Lies A, et al. **Z Kardiol** 1996;85 Suppl 3:140–2

Evaluation of nocturnal blood pressure by the Multi-P Analysis of 24-hour ambulatory monitoring. Lusardi P, et al. **Z Kardiol** 1996;85 Suppl 3:121–3

Noninvasive continuous blood pressure control by pulse wave velocity. Lutter N, et al. **Z Kardiol** 1996;85 Suppl 3:124–6

Effect of nocturnal blood pressure measurement on sleep and blood pressure during sleep. Middeke M. **Z Kardiol** 1996; 85 Suppl 3:99–105 (14 ref.)

Radical assessment of arterial pressure. O'Rourke MF. **Z Kardiol** 1996;85 Suppl 3:134–5

Relationship between the ascending aortic pressure waveform and the pressure wave determined in the finger by Finapres. Plunkett BT, et al. **Z Kardiol** 1996;85 Suppl 3:136

Representativeness of peripheral blood pressure values: the pulsatile component of blood pressure in hypertension. Safar M. **Z Kardiol** 1996;85 Suppl 3:51–9 (26 ref.)

Non-invasive oscillometric wrist and upper arm blood pressure measurements compared with invasive values. Saul F, et al. **Z Kardiol** 1996;85 Suppl 3:127–9

Ambulatory blood pressure monitoring: quantification of the early morning rise in blood pressure in normal case and in patients with symptoms of orthostatic dysregulation. Schneider R, et al. **Z Kardiol** 1996;85 Suppl 3:130–3

Estimation of ascending aortic pressure from radial arterial pressure using a generalised transfer function. Takazawa K, et al. **Z Kardiol** 1996;85 Suppl 3:137–9

Automated blood pressure measurement (ABPM) in the elderly. Trenkwalder P. **Z Kardiol** 1996;85 Suppl 3:85–91 (26 ref.)

Finger arterial pressure measurement with Finapres. Wesseling KH. **Z Kardiol** 1996;85 Suppl 3:38–44

[Blood pressure monitoring in left ventricular hypertrophy] Kraft K. **Internist (Berl)** 1997 Jun;38(6):616 **(Ger)**

[Mönckeberg sclerosis--noninvasive blood pressure monitoring] Tepel M. **Internist (Berl)** 1997 Apr;38(4):365 **(Ger)**

[Screening and diagnosis for eliminating renovascular hypertension. Value of 24-hour blood pressure monitoring and color-coded duplex ultrasound diagnosis] Schulte KL, et al. **Med Klin** 1997 Jun 15;92(6):313–8 (Eng. Abstr.) **(Ger)**

[Long-term ambulatory blood pressure monitoring. II: Evaluation parameters and reference ranges] Wellhausen CE, et al. **Med Klin** 1996 Jul 15;91(7):449–53 (91 ref.) **(Ger)**

[Long-term ambulatory blood pressure measurement (interview)] Middeke M. **Med Monatsschr Pharm** 1997 Jan; 20(1):17–9 **(Ger)**

[Use of discontinuous long-term blood pressure measurement (Spacelabs 90207) in patients with sleep apnea--a comparison with intra-arterial data] Heitmann J, et al. **Pneumologie** 1997 Aug;51 Suppl 3:747–9 (Eng. Abstr.) **(Ger)**

[Spectral analysis of blood pressure in patients with sleep related respiratory disorders] Penzel T, et al. **Wien Med Wochenschr** 1996;146(13–14):359–61 (Eng. Abstr.) **(Ger)**

[Problems in carrying out baroreflex sensitivity measurements in clinical routine practice: practicability and complications] Schwick N, et al. **Z Kardiol** 1997 Mar; 86(3):165–70 (Eng. Abstr.) **(Ger)**

[Arterial hypertension and blood pressure profile in patients with Williams-Beuren syndrome] Wessel A, et al. **Z Kardiol** 1997 Apr;86(4):251–7 (Eng. Abstr.) **(Ger)**

[Determination of the arterial pressure in premature and term newborns via 24-hour monitoring] Menghetti E, et al. **Minerva Pediatr** 1996 Jan-Feb;48(1–2):29–31 (Eng. Abstr.) **(Ita)**

[Evaluation of the accuracy of arterial pressure measurements with different types of devices used for self-monitoring] Bołtuć J, et al. **Wiad Lek** 1996;49(1–6):3–9 (Eng. Abstr.) **(Pol)**

[A computer arterial pressure measuring device] Volkova IV, et al. **Med Tekh** 1996 May-Jun;(3):8–12 (Eng. Abstr.) **(Rus)**

[Study of the clinically useful interval in ambulatory monitoring of blood pressure] Mora-Maciá J, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):248–53 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Acute biceps compartment syndrome associated with the use of a noninvasive blood pressure monitor. Sutin KM, et al. **Anesth Analg** 1996 Dec;83(6):1345–6

[A case of crush syndrome resulting from continuous compression of the upper arm by automatically cycled blood pressure cuff] Yamada M, et al. **Masui** 1997 Jan; 46(1):119–23 (Eng. Abstr.) **(Jpn)**

HISTORY

[The history of blood pressure determination. 100 years of the sphygmomanometer] Introcaso L. **Arq Bras Cardiol** 1996 Nov;67(5):305–11 **(Por)**

STANDARDS

Comparison of the Omron HEM-713C automated blood pressure monitor with a standard auscultatory method using a mercury manometer [see comments] Mufunda J, et al. **Cent Afr J Med** 1996 Aug;42(8):230–2. Comment in: Cent Afr J Med 1996 Oct;42(10):304; discussion 305.

Problems in method comparison studies [letter; comment] Siziya S. **Cent Afr J Med** 1996 Oct;42(10):304; discussion

BLOOD PRESSURE MONITORS

305. Comment on: Cent Afr J Med 1996 Aug;42(8):230–2.
Evaluation of the Critikon 8100 and Spacelabs 90207 non–invasive blood pressure monitors using a test simulator. Amoore JN, et al. **J Hum Hypertens** 1997 Mar; 11(3):163–9
False claim for accuracy of the UA751 [letter; comment] O'Brien E. **J Hum Hypertens** 1996 May;10(5):335. Comment on: J Hum Hypertens 1996 Jan;10(1):17–20.
Blood pressure monitoring during pregnancy. Accuracy of portable devices designed for obese patients. Schwartz WJ 3rd, et al. **J Reprod Med** 1996 Aug;41(8):581–5
Inaccuracy of the Dinamap 8100 portable monitor [letter; comment] [see comments] O'Brien E, et al. **Lancet** 1997 Apr 5;349(9057):1026. Comment on: Lancet 1997 Jan 18;349(9046):175–6. Comment on: Lancet 1997 Mar 1;349(9052):648. Comment on: Lancet 1997 Mar 1;349(9052):648–9. Comment in: Lancet 1997 Jul 19;350(9072):217–8.

TRENDS

Will mercury manometers soon be obsolete? [editorial] O'Brien E. **J Hum Hypertens** 1995 Dec;9(12):933–4 (18 ref.)
Perspective for the 21st century—overview. O'Rourke MF. **Z Kardiol** 1996;85 Suppl 3:143–5

VETERINARY

Comparison of the indirect oscillometric and direct arterial methods for blood pressure measurements in anesthetized dogs. Meurs KM, et al. **J Am Anim Hosp Assoc** 1996 Nov–Dec;32(6):471–5
Experimental evaluation of central venous pressure monitoring in the dog. Oakley RE, et al.
J Am Anim Hosp Assoc 1997 Jan–Feb;33(1):77–82
Evaluation of an oscillometric blood pressure monitor on anesthetized cats and the effect of cuff placement and fur on accuracy. Branson KR, et al. **Vet Surg** 1997 Jul–Aug; 26(4):347–53

BLOOD PRESSURE, VENOUS see **VENOUS PRESSURE**

BLOOD PROTEIN DISORDERS

BLOOD

Activated protein C resistance in homozygous sickle cell disease. Wright JG, et al. **Br J Haematol** 1997 Mar; 96(4):854–6
A possible new syndrome of familial euthyroid dysproteinemia associated with elevated thyroxine and triiodothyronine. Zimmerman PA, et al.
J Pediatr Endocrinol Metab 1995 Oct–Dec;8(4):253–6

COMPLICATIONS

Development of systemic lupus erythematosus in a patient with selective complete C1q deficiency. Berkel AI, et al. **Eur J Pediatr** 1997 Feb;156(2):113–5
Increased fetal loss in women with heritable thrombophilia [see comments] Preston FE, et al. **Lancet** 1996 Oct 5; 348(9032):913–6. Comment in: Lancet 1996 Dec 21–28;348(9043):1734. Comment in: Lancet 1996 Dec 21–28;348(9043):1734–5. Comment in: Lancet 1996 Dec 21–28;348(9043):1735.

DIAGNOSIS

Evaluation of a tissue factor dependent factor V assay to detect factor V Leiden: demonstration of high sensitivity and specificity for a generally applicable assay for activated protein C resistance. Liebman HA, et al.
Br J Haematol 1996 Dec;95(3):550–3

DRUG THERAPY

Treatment of angioimmunoblastic lymphadenopathy with dysproteinemia using 2–chlorodeoxyadenosine. Sallah AS, et al. **Ann Hematol** 1996 Dec;73(6):295–6

ETIOLOGY

Oral contraceptives and venous thromboembolism: acquired APC resistance? [letter; comment] Schramm W, et al.
Br J Haematol 1997 Aug;98(2):491–2. Comment on: Br J Haematol 1997 Apr;97(1):233–8.

GENETICS

A possible new syndrome of familial euthyroid dysproteinemia associated with elevated thyroxine and triiodothyronine. Zimmerman PA, et al.
J Pediatr Endocrinol Metab 1995 Oct–Dec;8(4):253–6
Clonal identification of trisomies 3, 5 and X in angioimmunoblastic lymphadenopathy with dysproteinemia by fluorescence in situ hybridization. Kumaravel TS, et al. **Leuk Lymphoma** 1997 Feb; 24(5–6):523–32
Ectopic transcript analysis indicates that allelic exclusion is an important cause of type I protein C deficiency in patients with nonsense and frameshift mutations in the PROC gene. Soria JM, et al. **Thromb Haemost** 1996 Jun;75(6):870–6

PATHOLOGY

Angioimmunoblastic lymphadenopathy with dysproteinemia—lack of a prognostic value of clear cell morphology. Ch'ang HJ, et al. **Oncology** 1997 May–Jun; 54(3):193–8

BLOOD PROTEIN ELECTROPHORESIS

see related
IMMUNOELECTROPHORESIS

A retrospective study of the relative utility of electrophoresis, immunoelectrophoresis, immunofixation, and nephelometry in the investigation of serum proteins. Salkie ML.
Clin Biochem 1996 Feb;29(1):39–42
Characterisation of human serum albumin heterogeneity by capillary zone electrophoresis and electrospray ionization mass spectrometry. Girard M, et al. **J Chromatogr A** 1997 Jun 6;772(1–2):235–42
[Residual presence of fibrinogen: frequent pitfall in the interpretation of serum protein electrophoresis] Lefèvre F, et al. **Ann Biol Clin (Paris)** 1997 May–Jun;55(3):238–40 **(Fre)**

METHODS

Difference between analytical sensitivity and detection limit [letter; comment] Lozano D, et al. **Am J Clin Pathol** 1997 May;107(5):619–20. Comment on: Am J Clin Pathol 1996 Jul;106(1):112–7.
Underestimation of monoclonal proteins by agarose serum protein electrophoresis. Chang CY, et al.
Ann Clin Lab Sci 1997 Mar–Apr;27(2):123–9
Protamine sulphate used in combination with thrombin to remove fibrinogen prior to electrophoresis of heparinised plasma [letter] Wright E, et al. **Br J Biomed Sci** 1997 Jun; 54(2):152
Capillary electrophoresis system for hemoglobin A1c determinations evaluated. Doelman CJ, et al. **Clin Chem** 1997 Apr;43(4):644–8
Is 570 nm the wavelength of choice for scanning protein agarose electrophoresis plates stained with amidoschwarz? [letter] Izquierdo JM, et al.
Eur J Clin Chem Clin Biochem 1997 May;35(5):397
Determination of apolipoprotein E in high density lipoprotein fraction by immunofixation method and turbidimetric immunoassay after precipitation. Okamoto Y, et al.
J Atheroscler Thromb 1994;1(1):23–9
Capillary electrophoresis as a clinical tool. Jenkins MA, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):23–34 (53 ref.)
Simultaneous analysis of microheterogeneity of immunoglobulins and serum protein fraction using high–voltage isoelectric focusing on six cellulose acetate membranes. Iijima S, et al. **J Clin Lab Anal** 1997;11(4):220–4
Differentiation and resolution of erythrocyte and muscle adenylate kinase activities in serum by electrophoresis. Murthy VV, et al. **J Clin Lab Anal** 1997;11(4):235–7

BLOOD PROTEINS

see related
PROTEIN BINDING
SERPINS

Comparison of prostate–specific antigen (PSA) measured by four combinations of free PSA and total PSA assays [see comments] Junker R, et al. **Clin Chem** 1997 Sep; 43(9):1588–94. Comment in: Clin Chem 1997 Sep;43(9):1561–2.
Free PSA as a percentage of the total: where do we go from here? [editorial; comment] Moore RA. **Clin Chem** 1997 Sep; 43(9):1561–2. Comment on: Clin Chem 1997 Sep;43(9):1588–94.
Multimerin: a bench–to–bedside chronology of a unique platelet and endothelial cell protein—from discovery to function to abnormalities in disease. Hayward CP.
Clin Invest Med 1997 Jun;20(3):176–87 (39 ref.)
Stomatin. Stewart GW. **Int J Biochem Cell Biol** 1997 Feb; 29(2):271–4 (9 ref.)
Bedside measurement of pulmonary capillary permeability in patients with acute lung injury. What have we learned? [editorial] Rocker GM. **Intensive Care Med** 1996 Jul; 22(7):619–21 (19 ref.)
Preparation of purified atactic polypropylene and polyvinyl methyl ether surfaces for thrombogenicity studies. Aziz CA, et al. **J Biomed Mater Res** 1996 Oct;32(2):193–202
Reduced protein adsorption on plastics via direct plasma deposition of triethylene glycol monoallyl ether. Beyer D, et al. **J Biomed Mater Res** 1997 Aug;36(2):181–9
Plasma proteins in children with trichuris dysentery syndrome. Cooper ES, et al. **J Clin Pathol** 1997 Mar; 50(3):236–40
[HS1 and EMS1] He H. **Gan To Kagaku Ryoho** 1997 Sep; 24(11):1448–53 (21 ref.) (Eng. Abstr.) **(Jpn)**
[Function of HS1 protein in B–cell antigen–receptor signaling and induction of apoptosis] Kitamura D. **Nippon Rinsho** 1996 Jul;54(7):1773–8 (23 ref.) (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Milk replacers with or without animal plasma for dairy calves. Quigley JD 3rd, et al. **J Dairy Sci** 1996 Oct; 79(10):1881–84

ANALYSIS

Soluble CD44 is not elevated in blood products. Munker R, et al. **Acta Haematol** 1996;96(3):187–8
Serum levels of eosinophil cationic protein, eosinophil–derived neurotoxin and myeloperoxidase in infections with filariae and schistosomes. Tischendorf FW, et al. **Acta Trop** 1996 Dec 16;62(3):171–82
Serum levels of eosinophil cationic protein and eosinophil protein x in pollen atopic patients with stable asthma and its relation with bronchial hyperresponsiveness. Chivato T, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec; 24(6):243–7
Measurement of serum levels of eosinophil cationic protein to monitor patients with seasonal respiratory allergy induced by Parietaria pollen (treated and untreated with specific immunotherapy). D'Amato G, et al. **Allergy** 1996 Apr;51(4):245–50
Copro–eosinophil cationic protein (ECP) in food allergy. Kósa L, et al. **Allergy** 1996 Dec;51(12):964–6
Urinary eosinophil protein X in relation to disease activity in childhood asthma. Lugosi E, et al. **Allergy** 1997 May; 52(5):584–8
Eosinophil activity markers in peripheral blood have high predictive value for bronchial hyperreactivity in patients with suspected mild asthma. Roquet A, et al. **Allergy** 1996 Jul;51(7):482–8
Serum eosinophil cationic protein (ECP) as a marker of disease activity and treatment efficacy in seasonal asthma. Vatrella A, et al. **Allergy** 1996 Aug;51(8):547–55
Plasma protein Z levels in early respiratory distress syndrome [letter] Yurdakök M, et al. **Am J Hematol** 1997 Feb; 54(2):171–2
Detection of human defensin 5 in reproductive tissues. Svinarich DM, et al. **Am J Obstet Gynecol** 1997 Feb; 176(2):470–5
Immunohistochemical localization of defensin in human coronary vessels. Barnathan ES, et al. **Am J Pathol** 1997 Mar;150(3):1009–20
Evidence for major basic protein immunoreactivity and interleukin 5 gene activation during the late phase response in explanted airways. Eidelman DH, et al.
Am J Respir Cell Mol Biol 1996 Nov;15(5):582–9
Granulocyte activation markers in induced sputum: comparison between chronic obstructive pulmonary disease, asthma, and normal subjects. Keatings VM, et al.
Am J Respir Crit Care Med 1997 Feb;155(2):449–53
Effects of temperature on hematologic and serum biochemical profiles of hybrid striped bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al.
Am J Vet Res 1997 Feb;58(2):126–30
Capillary isoelectric focusing of physiologically derived proteins with on–line desalting of isotonic salt concentrations. Clarke NJ, et al. **Anal Chem** 1997 Jul 15; 69(14):2786–92
Analysis of proteins by direct–scanning infrared–MALDI mass spectrometry after 2D–PAGE separation and electroblotting. Eckerskorn C, et al. **Anal Chem** 1997 Aug 1;69(15):2888–92
Underestimation of monoclonal proteins by agarose serum protein electrophoresis. Chang CY, et al.
Ann Clin Lab Sci 1997 Mar–Apr;27(2):123–9
A 36–year–old man with eosinophilia and elevated serum protein [clinical conference] van den Berg HA, et al.
Ann Hematol 1996 Sep;73(3):153–6
The relationship between protein content of the meal and lectin secretion in the midgut of Phlebotomus duboscqi. Volf P, et al. **Ann Trop Med Parasitol** 1996 Oct; 90(5):567–70
Eosinophilic myositis with eosinophilic cellulitislike skin lesions. Association with increased serum levels of eosinophil cationic protein and interleukin–5 [see comments] Trüeb RM, et al. **Arch Dermatol** 1997 Feb; 133(2):203–6. Comment in: Arch Dermatol 1997 Feb;133(2):225–7.
Immunological responses to respiratory syncytial virus infection in infancy. Smyth RL, et al. **Arch Dis Child** 1997 Mar;76(3):210–4
Effects of inhaled steroid treatment on serum eosinophilic cationic protein (ECP) and low affinity receptor for IgE (Fc epsilon RII/sCD23) in childhood bronchial asthma. Türktaş I, et al. **Arch Dis Child** 1996 Oct;75(4):314–8
The role of sweat in maintaining the stimulation of effort homeostasis in horses. Hejłasz Z, et al. **Arch Vet Pol** 1994; 34(3–4):231–9
Nitric oxide as S–nitrosoproteins in rheumatoid arthritis. Hilliquin P, et al. **Arthritis Rheum** 1997 Aug;40(8):1512–7
Kinematics of red cell aspiration by fluorescence–imaged microdeformation. Discher DE, et al. **Biophys J** 1996 Oct; 71(4):1680–94
p15s (15–kD antimicrobial proteins) are stored in the secondary granules of Rabbit granulocytes: implications for antibacterial synergy with the bactericidal/permeability–increasing protein in inflammatory fluids. Zarember K, et al. **Blood** 1997 Jan 15;89(2):672–9
Haemostatic changes in the pulmonary blood during cardiopulmonary bypass. Cardigan RA, et al.
Blood Coagul Fibrinolysis 1996 Jul;7(5):567–77
Interference by mannitol in total protein estimation [letter] Dissanayake PB. **Br J Biomed Sci** 1997 Jun;54(2):153–4
Patients with psoriasis have elevated levels of serum eosinophil cationic protein and increased numbers of EG2

positive eosinophils in the duodenal stroma. Michaëlsson G, et al. **Br J Dermatol** 1996 Sep;135(3):371–8

Plasma protein acute-phase response in unstable angina is not induced by ischemic injury. Liuzzo G, et al. **Circulation** 1996 Nov 15;94(10):2373–80

IFCC-standardized pediatric reference intervals for 10 serum proteins using the Beckman Array 360 system. Davis ML, et al. **Clin Biochem** 1996 Oct;29(5):489–92

Blood lipids and rheological modifications in glycogen storage disease. Keddad K, et al. **Clin Biochem** 1996 Feb; 29(1):73–8

A retrospective study of the relative utility of electrophoresis, immunoelectrophoresis, immunofixation, and nephelometry in the investigation of serum proteins. Salkie ML. **Clin Biochem** 1996 Feb;29(1):39–42

Advanced multiplexed analysis with the FlowMetrix system. Fulton RJ, et al. **Clin Chem** 1997 Sep;43(9):1749–56

Asthma, bronchial hyperreactivity and mediator release in children with birch pollinosis. ECP and EPX levels are not related to bronchial hyperreactivity. Ferdousi HA, et al. **Clin Exp Allergy** 1997 May;27(5):530–9

Intestinal inflammation in children with atopic eczema: faecal eosinophil cationic protein and tumour necrosis factor-alpha as non-invasive indicators of food allergy. Majamaa H, et al. **Clin Exp Allergy** 1996 Feb;26(2):181–7

Correlation between IgA antibody and eosinophil cationic protein levels in induced sputum from asthmatic patients. Nahm DH, et al. **Clin Exp Allergy** 1997 Jun;27(6):676–81

Granulocyte proteins in serum in childhood asthma: relation to spirometry and therapy. Scher H, et al. **Clin Exp Allergy** 1996 Oct;26(10):1131–41

The use of serum eosinophil cationic protein (ECP) in the management of steroid therapy in chronic asthma. Wever AM, et al. **Clin Exp Allergy** 1997 May;27(5):519–29

Hemorheology, plasma protein composition and von Willebrand factor in type I diabetic nephropathy. Zimmermann J, et al. **Clin Nephrol** 1996 Oct;46(4):230–6

The effect of immunotherapy on the serum levels of eosinophil cationic protein in seasonal allergic rhinitis. Ohashi Y, et al. **Clin Otolaryngol** 1997 Apr;22(2):100–5

Analysis by flow cytometry of tyrosine-phosphorylated proteins in activated T-cell subsets on whole blood samples. Hubert P, et al. **Cytometry** 1997 Sep 1;29(1):83–91

Prefractionation of protein samples prior to two-dimensional electrophoresis. Corthals GL, et al. **Electrophoresis** 1997 Mar-Apr;18(3-4):317–23

Preparative affinity membrane electrophoresis. Horvath ZS, et al. **Electrophoresis** 1996 Jan;17(1):224–6

Determination of denatured serum proteins in the casein fraction of heat-treated milk by capillary zone electrophoresis. Recio I, et al. **Electrophoresis** 1996 Jul; 17(7):1228–33

Alpha-2-HS-glycoprotein (AHSG) polymorphism in semen and saliva. Yasuda T, et al. **Electrophoresis** 1996 Apr; 17(4):793–6

Electrolyte and total protein changes in nonheat acclimated horses performing treadmill exercise in cool (20 degrees C/40%RH), hot, dry (30 degrees C/40%RH) or hot, humid (30 degrees C/80%RH) conditions. Harris PA, et al. **Equine Vet J Suppl** 1995 Nov;(20):85–96

Alterations in plasma volume, plasma constituents, renin activity and aldosterone induced by maximal exercise in the horse. Masri M, et al. **Equine Vet J Suppl** 1990 Jun; (9):72–7

Colocalization of stomatin (band 7.2b) and actin microfilaments in UAC epithelial cells. Snyers L, et al. **Eur J Cell Biol** 1997 Jul;73(3):281–5

Consensus of a group of professional societies and diagnostic companies on guidelines for interim reference ranges for 14 proteins in serum based on the standardization against the IFCC/BCR/CAP Reference Material (CRM 470). International Federation of Clinical Chemistry. Community Bureau of Reference of the Commission of the European Communities. College of American Pathologists. Dati F, et al. **Eur J Clin Chem Clin Biochem** 1996 Jun;34(6):517–20 (8 ref.)

gamma-Glutamyltransferase and serum proteins in buffalo calves following colostral ingestion. Lombardi P, et al. **Eur J Clin Chem Clin Biochem** 1996 Dec;34(12):965–8

Capillary electrophoresis of serum proteins. Reproducibility, comparison with agarose gel electrophoresis and a review of the literature [see comments] Wijnen PA, et al. **Eur J Clin Chem Clin Biochem** 1996 Jul;34(7):535–45 (14 ref.). Comment in: Eur J Clin Chem Clin Biochem 1997 May;35(5):393–4.

Leucocyte and platelet derived bioactive substances in stored standard platelet concentrates [letter] Edvardsen L, et al. **Eur J Haematol** 1996 Aug;57(2):185–7

Eosinophils and eosinophil-derived proteins in children with moderate asthma. Hoekstra MO, et al. **Eur Respir J** 1996 Nov;9(11):2231–5

Increased levels of 4-hydroxynonenal modified proteins in plasma of children with autoimmune diseases. Grune T, et al. **Free Radic Biol Med** 1997;23(3):357–60

Heritability of plasma leptin in a population sample of African-American families. Rotimi C, et al. **Genet Epidemiol** 1997;14(3):255–63

Quantification of hemostatic proteins and activation products in synovial fluids from arthritic joints prior to and after induction of chemical synoviorthesis. Römisch J, et al. **Haemostasis** 1996 May-Jun;26(3):170–7

Jejunal pouch length influences metabolism after total gastrectomy. Tanaka T, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):891–6

Genetic polymorphism of AHSG, FXIIIB, HP and PLG serum proteins in six Jewish groups in Israel. Cleve H, et al. **Hum Hered** 1997 Jul-Aug;47(4):203–10

Immunohistochemical detection of a fatty acid synthase (OA-519) as a predictor of progression of prostate cancer. Shurbaji MS, et al. **Hum Pathol** 1996 Sep;27(9):917–21

Localization of human intestinal defensin 5 in Paneth cell granules. Porter EM, et al. **Infect Immun** 1997 Jun; 65(6):2389–95

Eosinophil-derived proteins in postprandial (food-dependent) exercise-induced anaphylaxis. Romano A, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):505–11

Elevated serum levels of eosinophil major basic protein in patients with myeloproliferative disorders without eosinophilia. Mukai HY, et al. **Int J Hematol** 1997 Aug; 66(2):197–202

C-type natriuretic peptide in sepsis [letter] Mitaka C, et al. **Intensive Care Med** 1997 Mar;23(3):354–5

Measuring airway inflammation in asthma: eosinophils and eosinophilic cationic protein in induced sputum compared with peripheral blood. Pizzichini E, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):539–44

Bactericidal/permeability increasing factors [letter; comment] Shaldon S. **J Am Soc Nephrol** 1996 Oct; 7(10):2268. Comment on: J Am Soc Nephrol 1996 Mar;7(3):479–87.

Lipopolysaccharide-binding protein and bactericidal/permeability-increasing factor during hemodialysis: clinical determinants and role of different membranes. Sundaram S, et al. **J Am Soc Nephrol** 1997 Mar;8(3):463–70

Comparison of sputum and serum eosinophil cationic protein (ECP) levels in nonatopic asthma and chronic obstructive pulmonary disease. Gürsel G, et al. **J Asthma** 1997; 34(4):313–9

Relevance of serum ECP measurements for monitoring acute asthma in children. Niggemann B, et al. **J Asthma** 1996; 33(5):327–30

Characterization of ficolins as novel elastin-binding proteins and molecular cloning of human ficolin-1. Harumiya S, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):745–51

Detection of specific plasma proteins on surfaces by immunospecific adhesion of dyed polystyrene beads. Mandrusov E, et al. **J Biomater Sci Polym Ed** 1996; 8(1):1–18

The significance of oncometry for infusion therapy during pediatric heart surgery. Bartels C, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):249–55

Pleckstrin associates with plasma membranes and induces the formation of membrane projections: requirements for phosphorylation and the NH2-terminal PH domain. Ma AD, et al. **J Cell Biol** 1997 Mar 10;136(5):1071–9

Rapid capillary electrophoretic analysis of human serum proteins: qualitative comparison with high-throughput agarose gel electrophoresis. Clark R, et al. **J Chromatogr A** 1996 Sep 13;744(1-2):205–13

Salt-independent adsorption of human serum proteins on cyanocarbon gels. Berna PP, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):277–85

Capillary electrophoresis for clinical problem solving: analysis of urinary diagnostic metabolites and serum proteins. Jellum E, et al. **J Chromatogr B Biomed Appl** 1996 Aug 9;683(1):55–65

Capillary electrophoresis as a clinical tool. Jenkins MA, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):23–34 (53 ref.)

Determination of reference intervals for 13 plasma proteins based on IFCC international reference preparation (CRM470) and NCCLS proposed guideline (C28-P,1992): trial to select reference individuals by results of screening tests and application of maximal likelihood method. Ichihara K, et al. **J Clin Lab Anal** 1996;10(2):110–7

Serum protein standardization project in Japan: evaluation of an IFCC reference material (RPPHS/CRM470) and establishment of reference intervals. Itoh Y, et al. **J Clin Lab Anal** 1997;11(1):39–44

Decreased serum alfa2-HS-glycoprotein concentration in patients with primary biliary cirrhosis [letter] Kalabay L, et al. **J Hepatol** 1997 Jun;26(6):1426–7

Modification of the cholesterol efflux properties of human serum by enrichment with phospholipid. Jian B, et al. **J Lipid Res** 1997 Apr;38(4):734–44

Determination of citrate in plasma protein solutions by UV-visible spectrophotometry and ion chromatography. Holden AJ, et al. **J Pharm Biomed Anal** 1996 Apr; 14(6):713–9

Neutrophil activation in preeclampsia. Are defensins and lactoferrin elevated in preeclamptic patients? Prieto JA, et al. **J Reprod Med** 1997 Jan;42(1):29–32

Effect of feeding deoxynivalenol (vomitoxin)-contaminated barley to horses. Johnson PJ, et al. **J Vet Diagn Invest** 1997 Apr;9(2):219–21

Effects of small-peptide and whole-protein enteral feedings on serum proteins and diarrhea in critically ill patients: a randomized trial. Heimburger DC, et al. **JPEN J Parenter Enteral Nutr** 1997 May-Jun;21(3):162–7

Serum proteins electrophoresis in infants and children. Burki M, et al. **JPMA J Pak Med Assoc** 1996 Nov;46(11):252–5

Association of otitis media with effusion and allergy as demonstrated by intradermal skin testing and eosinophil cationic protein levels in both middle ear effusions and mucosal biopsies. Hurst DS. **Laryngoscope** 1996 Sep;106(9 Pt 1):1128–37

Increased eosinophil granule proteins in gut lavage fluid from patients with inflammatory bowel disease. Levy AM, et al. **Mayo Clin Proc** 1997 Feb;72(2):117–23

A microanalytical electrophoresis technique for the determination of polymorphic blood proteins for medical and forensic applications. Grunbaum BW. **Mikrochim Acta** 1977;(3-4 Pt 2):339–52

Analysis and characteristics of mast cell tryptase and eosinophilic cationic protein from human gut mucosa in gastrointestinal allergy. Raithel M, et al. **Monogr Allergy** 1996;32:143–56

Distribution of eosinophil granule proteins in nasal mucosa of atopic patients with nasal polyposis. Min YG, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Mar-Apr; 58(2):82–6

Eosinophil cationic protein in mucosal biopsies from patients with allergy and otitis media with effusion. Hurst DS, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):42–8

Serum eosinophil cationic protein and interleukin-5 in children with bronchial asthma and acute bronchiolitis. Oymar K, et al. **Pediatr Allergy Immunol** 1996 Nov; 7(4):180–6

Eosinophil cationic protein in induced sputum as a marker of inflammation in asthmatic children. Sorva R, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):45–50

Serum eosinophil cationic protein as a predictor of wheezing after bronchiolitis. Reijonen TM, et al. **Pediatr Pulmonol** 1997 Jun;23(6):397–403

Responses to systemic angiotensin II in lactating and non-lactating goats. Hossaini-Hilali J, et al. **Regul Pept** 1996 Oct 8;66(1-2):123–6

Performance failure in Alaskan sled dogs: biochemical correlates. Hinchcliff KW. **Res Vet Sci** 1996 Nov; 61(3):271–2

Evaluation of zone electrophoresis of serum proteins performed on the Helena Laboratories rapid electrophoresis analyser. Jimenez A, et al. **Scand J Clin Lab Invest** 1995 Dec;55(8):729–31

The need for protein containing quality control materials for blood pH and electrolyte analyzers. Maas B, et al. **Scand J Clin Lab Invest Suppl** 1996;224:179–86 (8 ref.)

Evaluation of protein containing quality control materials for blood gas analysis. Sprokholt R, et al. **Scand J Clin Lab Invest Suppl** 1996;224:71–81

Influence of cholesterol, triglycerides and fibrinogen on AT III, PC, HC-II and plasminogen measurement [letter] Tosetto A, et al. **Thromb Haemost** 1997 Apr;77(4):804

Blood-type and age affect human plasma levels of histidine-rich glycoprotein in a large population. Drasin T, et al. **Thromb Res** 1996 Nov 1;84(3):179–88

Evidence of a protein C-like anticoagulant system in bony fish [published erratum appears in Thromb Res 1996 Nov 15;84(4):300-1] Salte R, et al. **Thromb Res** 1996 Sep 1; 83(5):389–97

Serum protein electrophoresis as a prognostic marker of chronic liver disease in dogs. Sevelius E, et al. **Vet Rec** 1995 Dec 23-30;137(26):663–7

Serum protein electrophoresis: potential test for use in geriatric companion animal health programmes. Batamuzi EK, et al. **Zentralbl Veterinarmed A** 1996 Oct;43(8):501–8

[Changes in serum eosinophil cation protein level and blood eosinophil density in patients with asthma] Wang H, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):802–4 (Eng. Abstr.) **(Chi)**

[Use of endogenous proteins in the early diagnosis of dysfunction in transplanted kidneys] Třeška V, et al. **Rozhl Chir** 1996 Mar;75(3):127–30 (Eng. Abstr.) **(Cze)**

[Improvements from the reference material CRM 470 in the standardization of the determination of serum proteins] Bienvenu J, et al. **Ann Biol Clin (Paris)** 1997 Jan-Feb; 55(1):37–40 (Eng. Abstr.) **(Fre)**

[Threshold values of colloid-osmotic pressure, serum albumin or protein during perioperative period] Baron JF, et al. **Ann Fr Anesth Reanim** 1996;15(4):447–55 (Eng. Abstr.) **(Fre)**

[Limitations of the protein profile for diagnostic orientation in initial internal medicine consultation. Prospective study on 76 patients] Barrier JH, et al. **Rev Med Interne** 1997; 18(5):373–9 (Eng. Abstr.) **(Fre)**

[Value of the protein profile in unexplained inflammatory syndromes] Dupond JL, et al. **Rev Med Interne** 1997; 18(5):367–72 (Eng. Abstr.) **(Fre)**

[Maturational quality, adaptation reactions and clinical-chemical blood values in automatically milk-fed bred milk calves] Steinhardt M, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jan;104(1):3–8 (Eng. Abstr.) **(Ger)**

[Age-dependence of laboratory values in dogs and cats. III. Bilirubin, creatinine and proteins in serum] Kraft W, et al. **Tierarztl Prax** 1996 Dec;24(6):610–5 (Eng. Abstr.) **(Ger)**

[The study of the relationship between serum eosinophil cationic protein and bronchial responsiveness in the patients with bronchial asthma] Endo S, et al. **Arerugi** 1996 Jan; 45(1):1?–16 (Eng. Abstr.) **(Jpn)**

[Measurement of serum and sputum eosinophil cationic protein concentrations in asthma] Motojima S, et al. **Arerugi** 1995 Nov;44(11):1272–81 (Eng. Abstr.) **(Jpn)**

[Studies on serum protein fractions of patients with maxillary

sinus cancer undergoing a combination of radiotherapy and chemotherapy: II. Relationship between changes in serum protein fractions and prognosis] Onizuka K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):657–63 (Eng. Abstr.) **(Jpn)**

[Defensin in plasma and in bronchoalveolar lavage fluid from patients with acute respiratory distress syndrome] Ashitani J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1349–53 (Eng. Abstr.) **(Jpn)**

[Chronic eosinophilic pneumonia involving eosinophil cationic protein and bone marrow cells] Nakamura Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1115–20 (Eng. Abstr.) **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 8. Evaluation of inter–organizational discrepancies in the Ichihara K, et al. **Rinsho Byori** 1996 May;Suppl 101:83–9 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 6. Statistical methods for setting reference criteria—Problems Ichihara K. **Rinsho Byori** 1996 May;Suppl 101:48–73 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 7. Analysis of physiological factors for fluctuations of the 13 items Ichihara K. **Rinsho Byori** 1996 May;Suppl 101:74–82 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 9. The background for the basic group composed of healthy reference Igarashi S. **Rinsho Byori** 1996 May;Suppl 101:90–101 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 4. An IFCC international reference for plasma protein (CRM 470/RPPHS)—its Itoh Y, et al. **Rinsho Byori** 1996 May;Suppl 101:24–37 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 3. Determination of reference intervals] Kanno T. **Rinsho Byori** 1996 May;Suppl 101:9–23 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 2. The organization and activities of a project to set the reference Kawai T. **Rinsho Byori** 1996 May;Suppl 101:5–8 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 1. Current status and problems related to setting reference criteria (normal Kawai T. **Rinsho Byori** 1996 May;Suppl 101:1–4 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 11. A practical list of reference intervals for 13 items of serum proteins] Kawai T, et al. **Rinsho Byori** 1996 May;Suppl 101:207–9 **(Jpn)**

[Standards for ranges of 13 items of blood proteins among Japanese adults—results of a joint project of 7 organizations based on NCCLS Document C28–P and International Reference CRM470. 10. The results of the analysis conducted to set reference ranges for 13 Saito K, et al. **Rinsho Byori** 1996 May;Suppl 101:102–206 **(Jpn)**

[Eosinophil cationic protein in persons with contact allergy to disinfectants] Kieć-Swierczyńska M, et al. **Med Pr** 1997; 48(1):45–50 (Eng. Abstr.) **(Pol)**

[Correlation of ECP levels in sputum and blood with parameters of airflow obstruction and hyperreactivity in patients with irreversible bronchial obstruction due to chronic bronchitis] Chazan R, et al. **Pol Arch Med Wewn** 1995 Oct;94(4):300–6 (Eng. Abstr.) **(Pol)**

[Characteristics of total blood protein measurement during infusion therapy] Iuzvak NP, et al. **Klin Lab Diagn** 1993 May–Jun;(3):10–2 (Eng. Abstr.) **(Rus)**

[Alkaline blood serum proteins in patients with the initial manifestations of cerebral arteriosclerosis and the late sequelae of mild closed craniocerebral trauma (comparative data)] Korshniak TV, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):92–3 (Eng. Abstr.) **(Rus)**

[The monitoring of protein–volemic indices during plasmapheresis in patients with paraproteinemic hemoblastoses] Kalinin NN, et al. **Ter Arkh** 1996;68(7):62–5 (Eng. Abstr.) **(Rus)**

[R proteins in the assessment of the inflammation in bronchial asthma] Moskalev MN. **Ter Arkh** 1997;69(3):26–7 (Eng. Abstr.) **(Rus)**

[Plasma proteins in patients with liver steatosis and the effect of treatment of essential phospholipids] Turecký L, et al. **Bratisl Lek Listy** 1996 Oct;97(10):625–8 (Eng. Abstr.) **(Slo)**

[Changes in protein repletion markers in undernourished patients receiving enteral nutrition and its relation with energy and nitrogen balance] Charlin de G V, et al. **Rev Med Chil** 1995 Sep;123(9):1091–7 (Eng. Abstr.) **(Spa)**

[Determination of the content of common protein in biological samples using chemical stabilizers] Iarmol'chuk HM. **Ukr Biokhim Zh** 1996 Sep–Oct;68(5):103–5 (Eng. Abstr.) **(Ukr)**

BIOSYNTHESIS

Female reproductive cycle influences plasma volume and protein restitution after hemorrhage in the conscious rat. Slimmer LM, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R626–33

Protein synthesis measurement in cancer patients with 13C valine. Egerland A, et al. **Clin Chim Acta** 1996 Aug 15; 252(1):51–60

Transcriptionally active haptoglobin-related (Hpr) gene in hepatoma G2 and leukemia molt-4 cells. Tabak S, et al. **DNA Cell Biol** 1996 Nov;15(11):1001–7

Widespread expression of beta-defensin hBD-1 in human secretory glands and epithelial cells. Zhao C, et al. **FEBS Lett** 1996 Nov 4;396(2–3):319–22

Serum TABM produced during anterior chamber-associated immune deviation passively transfers suppression of delayed-type hypersensitivity to primed mice. Wang Y, et al. **Int Immunol** 1997 Feb;9(2):211–8

Dexamethasone-induced suppression of apoptosis in human neutrophils requires continuous stimulation of new protein synthesis. Cox G, et al. **J Leukoc Biol** 1997 Feb; 61(2):224–30

Acute in vitro production of acylation stimulating protein in differentiated human adipocytes. Maslowska M, et al. **J Lipid Res** 1997 Jan;38(1):1–11

Effects of sex steroids on protein synthesis in cultured human lymphocytes. Abiola OO, et al. **J Psychiatr Res** 1996 May–Jun;30(3):229–38

Pravastatin increases survival and inhibits natural killer cell enhancement factor in liver transplanted rats. Kakkis JL, et al. **J Surg Res** 1997 May;69(2):393–8

Expression of CAP37, a novel inflammatory mediator, in Alzheimer's disease. Pereira HA, et al. **Neurobiol Aging** 1996 Sep–Oct;17(5):753–9

Induction of Cip/Kip and Ink4 cyclin dependent kinase inhibitors by interferon-alpha in hematopoietic cell lines. Sangfelt O, et al. **Oncogene** 1997 Jan 30;14(4):415–23

Purification and molecular cloning of an inducible gram-negative bacteria-binding protein from the silkworm, Bombyx mori. Lee WJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7888–93

Epithelial antibiotic induced in states of disease. Stolzenberg ED, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8686–90

Azurocidin, a natural antibiotic from human neutrophils: expression, antimicrobial activity, and secretion. Almeida RP, et al. **Protein Expr Purif** 1996 Jun;7(4):355–66

Vitamin K-dependent protein production in transgenic animals. Luboń H, et al. **Thromb Haemost** 1997 Jul; 78(1):532–6 (65 ref.)

A new serum protein (KX-5) induced by liver transplantation suppresses heart allograft rejection in nonspecific manner. Kamada N, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1271

Induction of pleckstrin by the Epstein-Barr virus nuclear antigen 3 family. Kienzle N, et al. **Virology** 1996 Oct 1; 224(1):167–74

CHEMICAL SYNTHESIS

Solid-phase synthesis of an O-linked glycopeptide based on a benzyl-protected glycan approach. Nakahara Y, et al. **Carbohydr Res** 1996 Oct 4;292:71–81

CHEMISTRY

Localization of a high-affinity inositol 1,4,5-trisphosphate/inositol 1,4,5,6-tetrakisphosphate binding domain to the pleckstrin homology module of a new 130 kDa protein: characterization of the determinants of structural specificity. Takeuchi H, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):561–8

Comparison of human VDAC1 with streptococcal streptokinase and bovine bactericidal permeability increasing protein: role of structural information in identifying functionally significant domains. McCabe KM, et al. **Biochem Mol Med** 1995 Dec;56(2):176–9

Mechanisms of action of the bactericidal/permeability-increasing protein BPI on endotoxin and phospholipid monolayers and aggregates. Wiese A, et al. **Biochemistry** 1997 Aug 19;36(33):10301–10

Cloning, sequencing, and recombinant expression of the porcine inhibitor of carbonic anhydrase: a novel member of the transferrin family. Wuebbens MW, et al. **Biochemistry** 1997 Apr 8;36(14):4327–36

DNA-protein cross-links in leukocytes of mice induced by Zn, Cd, and Pb. Osipov AN, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):681–3

Gadolinium(III) di- and tetrachelates designed for in vivo noncovalent complexation with plasma proteins: a novel molecular design for blood pool MRI contrast enhancing agents. Martin VV, et al. **Bioconjug Chem** 1995 Sep–Oct; 6(5):616–23

Horseshoe crab coagulogen is an invertebrate protein with a nerve growth factor-like domain. Bergner A, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):283–7

Platelet binding and protein adsorption to titanium and gold after short time exposure to heparinized plasma and whole blood. Kanagaraja S, et al. **Biomaterials** 1996 Dec; 17(23):2225–32

Variable glycation of serum proteins in patients with diabetes mellitus. Couturier M, et al. **Clin Invest Med** 1997 Apr; 20(2):103–9

Specific role for the PH domain of dynamin-1 in the regulation of rapid endocytosis in adrenal chromaffin cells. Artalejo CR, et al. **EMBO J** 1997 Apr 1;16(7):1565–74

Crystal structure of a coagulogen, the clotting protein from horseshoe crab: a structural homologue of nerve growth factor. Bergner A, et al. **EMBO J** 1996 Dec 16; 15(24):6789–97

An angiogenic protein from bovine serum and milk—purification and primary structure of angiogenin-2. Strydom DJ, et al. **Eur J Biochem** 1997 Jul 15;247(2):535–44

A target of phosphatidylinositol 3,4,5-trisphosphate with a zinc finger motif similar to that of the ADP-ribosylation-factor GTPase-activating protein and two pleckstrin homology domains. Tanaka K, et al. **Eur J Biochem** 1997 Apr 15;245(2):512–9

Eosinophil protein X concentration is dependent on eosinophil concentration. Pronk-Admiraal CJ, et al. **Eur J Clin Chem Clin Biochem** 1997 May;35(5):351–4

Mapping of the domains required for decay acceleration activity of the human factor H-like protein 1 and factor H. Kühn S, et al. **Eur J Immunol** 1996 Oct;26(10):2383–7

Crystal structure of tetranectin, a trimeric plasminogen-binding protein with an alpha-helical coiled coil. Nielsen BB, et al. **FEBS Lett** 1997 Jul 28;412(2):388–96

Flow cytometry study on the effect of serum and peritoneal fluid of women on sperm-binding activity of immunoglobulin G antisperm antibodies. Nikolaeva MA, et al. **Fertil Steril** 1997 Apr;67(4):680–6

RS cyclophilins: identification of an NK-TR1-related cyclophilin. Nestel FP, et al. **Gene** 1996 Nov 21; 180(1–2):151–5

Excess iron induces hepatic oxidative stress and transforming growth factor beta1 in genetic hemochromatosis. Houglum K, et al. **Hepatology** 1997 Sep;26(3):605–10

Novel antibacterial peptides isolated from a European bumblebee, Bombus pascuorum (Hymenoptera, Apoidea). Rees JA, et al. **Insect Biochem Mol Biol** 1997 May; 27(5):413–22

Tachycitin, a small granular component in horseshoe crab hemocytes, is an antimicrobial protein with chitin-binding activity. Kawabata S, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1253–60

Biochemical characterization of recombinant fusions of lipopolysaccharide binding protein and bactericidal/permeability-increasing protein. Implications in biological activity. Abrahamson SL, et al. **J Biol Chem** 1997 Jan 24;272(4):2149–55

Cloning of a novel human diacylglycerol kinase (DGKtheta) containing three cysteine-rich domains, a proline-rich region, and a pleckstrin homology domain with an overlapping Ras-associating domain. Houssa B, et al. **J Biol Chem** 1997 Apr 18;272(16):10422–8

Phosphatidylinositol 4,5-bisphosphate binding to the pleckstrin homology domain of phospholipase C-delta1 enhances enzyme activity. Lomasney JW, et al. **J Biol Chem** 1996 Oct 11;271(41):25316–26

Interactions between protein kinase C and pleckstrin homology domains. Inhibition by phosphatidylinositol 4,5-bisphosphate and phorbol 12-myristate 13-acetate. Yao L, et al. **J Biol Chem** 1997 May 16;272(20):13033–9

Characterization of a 180-kDa intestinal epithelial cell membrane glycoprotein, gp180. A candidate molecule mediating t cell-epithelial cell interactions. Yio XY, et al. **J Biol Chem** 1997 May 9;272(19):12786–92

Effect of reduced protein adsorption on platelet adhesion at the phospholipid polymer surfaces. Iwasaki Y, et al. **J Biomater Sci Polym Ed** 1996;8(2):151–63

Protein adsorption and platelet adhesion on polymer surfaces having phospholipid polar group connected with oxyethylene chain. Iwasaki Y, et al. **J Biomater Sci Polym Ed** 1996;8(2):91–102

Improved blood compatibility of segmented polyurethane by polymeric additives having phospholipid polar group. II. Dispersion state of the polymeric additive and protein adsorption on the surface. Ishihara K, et al. **J Biomed Mater Res** 1996 Nov;32(3):401–8

Plasma protein adsorption and platelet adhesion onto comb-like PEO gradient surfaces. Lee JH, et al. **J Biomed Mater Res** 1997 Jan;34(1):105–14

Protein adsorption to a bioactive glass with special reference to precorrosion. Söderling E, et al. **J Biomed Mater Res** 1996 Aug;31(4):525–31

Determination of reference intervals for 13 plasma proteins based on IFCC international reference preparation (CRM470) and NCCLS proposed guideline (C28–P, 1992): a strategy for partitioning reference individuals with validation based on multivariate analysis. Ichihara K, et al. **J Clin Lab Anal** 1997;11(2):117–24

The main-chain dynamics of the dynamin pleckstrin homology (PH) domain in solution: analysis of 15N relaxation with monomer/dimer equilibration. Fushman D, et al. **J Mol Biol** 1997 Feb 14;266(1):173–94

The solution structure of the pleckstrin homology domain

of mouse Son-of-sevenless 1 (mSos1). Koshiba S, et al. **J Mol Biol** 1997 Jun 20;269(4):579–91

Involvement of erythrocyte membrane proteins in temperature-induced disturbances of the permeability barrier. Ivanov IT. **Membr Cell Biol** 1997;11(1):45–56

Structure of HBP, a multifunctional protein with a serine proteinase fold [letter] Iversen LF, et al. **Nat Struct Biol** 1997 Apr;4(4):265–8

A human exchange factor for ARF contains Sec7- and pleckstrin-homology domains. Chardin P, et al. **Nature** 1996 Dec 5;384(6608):481–4

Influence of fluorescent labelling of polystyrene particles on phagocytic uptake, surface hydrophobicity, and plasma protein adsorption. Müller RH, et al. **Pharm Res** 1997 Jan; 14(1):18–24

Biochemical characterization and crystalization of human Zn-alpha2-glycoprotein, a soluble class I major histocompatibility complex homolog. Sánchez LM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4626–30

Tetranectin, a trimeric plasminogen-binding C-type lectin. Holtet TL, et al. **Protein Sci** 1997 Jul;6(7):1511–5

Crystal structure of human BPI and two bound phospholipids at 2.4 angstrom resolution. Beamer LJ, et al. **Science** 1997 Jun 20;276(5320):1861–4

PH domains—a universal membrane adapter [see comments] Hemmings BA. **Science** 1997 Mar 28;275(5308):1899. Comment in: Science 1997 Mar 28;275(5308):1927–30.

Signaling by phosphoinositide-3,4,5-trisphosphate through proteins containing pleckstrin and Sec7 homology domains [see comments] Klarlund JK, et al. **Science** 1997 Mar 28; 275(5308):1927–30. Comment in: Science 1997 Mar 28;275(5308):1899.

Design of a potent novel endotoxin antagonist. Uknis ME, et al. **Surgery** 1997 Aug;122(2):380–5

Pleckstrin's repeat performance: a novel domain in G-protein signaling? Ponting CP, et al. **Trends Biochem Sci** 1996 Jul; 21(7):245–6

Quasi-elastic light scattering spectroscopy for investigation of plasma proteins. Yanovskaya NB. **Ukr Biokhim Zh** 1996 Jul-Aug;68(4):21–2

[Structure and ligand recognition of pleckstrin homology domain] Terasawa H, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):996–1003 (49 ref.) **(Jpn)**

CLASSIFICATION

[Simultaneous phenotyping of proteins with various pHs by complex IEF and its application in forensic haemogenetics] Hou Y, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):21–5 (Eng. Abstr.) **(Chi)**

DEFICIENCY

Anemia and serum protein deficiencies in patients with traumatic spinal cord injury. Lipetz JS, et al. **J Spinal Cord Med** 1997 Jul;20(3):335–40

[The complete band4.2 deficiency in human red cells] Kanzaki A, et al. **Nippon Rinsho** 1996 Sep;54(9):2492–501 (20 ref.) (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Protein carbonyl formation in blood plasma by cephalosporins. Jung Y, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):311–7

DNA-protein cross-links in leukocytes of mice induced by Zn, Cd, and Pb. Osipov AN, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):681–3

Effect of lodoxamide and disodium cromoglycate on tear eosinophil cationic protein in vernal keratoconjunctivitis. Leonardi A, et al. **Br J Ophthalmol** 1997 Jan;81(1):23–6

Comments on 'DNA-protein crosslinks, a biomarker of exposure to formaldehyde—in vitro and in vivo studies' by Shaham et al [letter] Casanova M, et al. **Carcinogenesis** 1996 Sep;17(9):2097–101

Plasma protein changes induced by two orally administered androgen derivatives. Rannevik G, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):161–6

[The pharmacological blockade of protein glycosylation in diabetes mellitus using sulfonylurea derivatives and biguanides] Lebedeva EA. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):40–2 (Eng. Abstr.) **(Rus)**

GENETICS

A discordance between mtDNA diversity and blood-protein heterozygosity in northern Siberian populations [letter] Malyarchuk BA. **Am J Hum Genet** 1996 Nov;59(5):1167–8

Mitochondrial versus nuclear admixture estimates demonstrate a past history of directional mating. Merriwether DA, et al. **Am J Phys Anthropol** 1997 Feb; 102(2):153–9

Genetic study of the population of Tenerife (Canary Islands, Spain): protein markers and review of classical polymorphisms. Moral P, et al. **Am J Phys Anthropol** 1997 Mar;102(3):337–49

Positional specificity of defensin gene expression reveals Paneth cell heterogeneity in mouse small intestine. Darmoul D, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G68–74

Human airway epithelia express a beta-defensin. McCray PB Jr, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):343–9

Molecular genetics of hereditary elliptocytosis and hereditary spherocytosis. Delaunay J, et al. **Ann Genet** 1996; 39(4):209–21 (93 ref.)

Human genetic variation in the Sierra de Gredos mountain (central Spain): study of several polymorphisms. Moral P, et al. **Ann Hum Biol** 1996 May-Jun;23(3):213–21

Genetic markers associated with high versus low performance on episodic memory tasks. Nilsson LG, et al. **Behav Genet** 1996 Nov;26(6):555–62

Molecular cloning of a 1alpha,25-dihydroxyvitamin D3-inducible transcript (DDVit 1) in human blood monocytes. Fritsche J, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):407–12

The genomic organization of the genes for human lipopolysaccharide binding protein (LBP) and bactericidal permeability increasing protein (BPI) is highly conserved. Hubacek JA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):427–30

Inheritance and linkage analysis of ten enzyme and blood protein loci in the Japanese brown frog Rana japonica. Sumida M. **Biochem Genet** 1996 Oct;34(9–10):375–88

Genetic diversity and divergence in Chinese yak (Bos grunniens) populations inferred from blood protein electrophoresis. Tu ZC, et al. **Biochem Genet** 1997 Feb; 35(1-2):13–6

Identification of cDNA encoding rat eosinophil cationic protein/eosinophil-associated ribonuclease. Nittoh T, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):42–6

A novel clonality assay based on transcriptional polymorphism of X chromosome gene p55. Luhovy M, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):81–7

Activation of a novel gene in 3q21 and identification of intergenic fusion transcripts with ecotropic viral insertion site I in leukemia. Pekarsky Y, et al. **Cancer Res** 1997 Sep 15;57(18):3914–9

Assignment of the gene for human tetranectin (TNA) to chromosome 3p22-->p21.3 by somatic cell hybrid mapping. Durkin ME, et al. **Cytogenet Cell Genet** 1997; 76(1-2):39–40

The human HCLS1 gene maps to chromosome 3q13 by fluorescence in situ hybridization. Egashira M, et al. **Cytogenet Cell Genet** 1996;72(2-3):175–6

High-resolution FISH mapping of beta-defensin genes to river buffalo and sheep chromosomes suggests a chromosome discrepancy in ffttle standard karyotypes. Iannuzzi L, et al. **Cytogenet Cell Genet** 1996;75(1):10–3

Cloning and recombinant expression of a barred sand bass (Paralabrax nebulifer) cDNA. The encoded protein displays structural homology and immunological crossreactivity to human complement/cofactor related plasma proteins. Zipfel PF, et al. **Dev Comp Immunol** 1996 Nov-Dec;20(6):407–16

Involvement of an octamer-like sequence within a crucial region of the androgen-dependent Slp enhancer. Scarlett CO, et al. **DNA Cell Biol** 1997 Jan;16(1):45–57

Cystic fibrosis mutations in Romania. Popa I, et al. **Eur J Pediatr** 1997 Mar;156(3):212–3

Phenotype change in polymorphic plasma proteins following liver transplantation. Schmeling A, et al. **Exp Clin Immunogenet** 1996;13(2):78–83

cDNA cloning of Clavanins: antimicrobial peptides of tunicate hemocytes. Zhao C, et al. **FEBS Lett** 1997 Jun 30;410(2-3):490–2

Cloning and analysis of a cDNA encoding the BALB/c murine erythrocyte band 7 integral membrane protein. Schlegel W, et al. **Gene** 1996 Oct 31;178(1-2):115–8

Plasma protein polymorphisms in two Viswa populations of Coastal Andhra Pradesh (south India). Rao IS, et al. **Gene Geogr** 1996 Aug;10(2):83–6

Hemogenetic studies in southern Germany. Schmidt HD, et al. **Gene Geogr** 1996 Dec;10(3):191–200

cDNA sequence and genomic structure of the murine p55 (Mpp1) gene. Elder B, et al. **Genomics** 1996 Dec 1; 38(2):231–4

The gene encoding protein 4.2 is distinct from the mouse platelet storage pool deficiency mutation pallid. Gwynn B, et al. **Genomics** 1997 Jun 15;42(3):532–5

Complete genomic organization of the human erythroid p55 gene (MPP1), a membrane-associated guanylate kinase homologue. Kim AC, et al. **Genomics** 1996 Jan 15; 31(2):223–9

Characterization of the mouse Nktr gene and promoter. Simons-Evelyn M, et al. **Genomics** 1997 Feb 15; 40(1):94–100

The organization of the gene (EPB72) encoding the human erythrocyte band 7 integral membrane protein (protein 7.2b). Unfried I, et al. **Genomics** 1995 Dec 10;30(3):521–8

Molecular analysis of a silent polymorphism in the PDZ domain of p55, the major palmitoylated erythrocyte membrane protein. Ruff P, et al. **Hematopathol Mol Hematol** 1996;10(4):187–91

Genotype and phenotype in cystic fibrosis. Tsui LC, et al. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):115–8, 123–9, 134, passim (9 ref.)

Microevolution and genetic affinities among six Amerindian tribes of lower Central America: comparative genetic study of serum proteins. Bieber H, et al. **Hum Biol** 1996 Dec; 68(6):929–53

Genetic study of African populations: polymorphisms of the plasma proteins TF, PL, F13B, and AHSG in populations of Namibia and Mozambique. Bieber H, et al. **Hum Biol** 1997 Feb;69(1):41–57

Molecular evidence for human alpha 2-HS glycoprotein (AHSG) polymorphism. Osawa M, et al. **Hum Genet** 1997 Jan;99(1):18–21

Promoter region of the human eosinophil cationic protein gene. Itoh S, et al. **Immunogenetics** 1997;46(2):156–8

Molecular characterization of a defensin gene from the mosquito, Aedes aegypti. Cho WL, et al. **Insect Biochem Mol Biol** 1997 May;27(5):351–8

Inducible immune factors of the vector mosquito Anopheles gambiae: biochemical purification of a defensin antibacterial peptide and molecular cloning of preprodefensin cDNA. Richman AM, et al. **Insect Mol Biol** 1996 Aug;5(3):203–10

Isolation and characterization of cell-specific cDNA clones from a subtractive library of the ocular ciliary body of a single normal human donor: transcription and synthesis of plasma proteins. Escribano J, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):921–31

Isolation and characterization of the human inter-alpha-trypsin inhibitor family heavy chain-related protein (IHRP) gene (ITIHL1). Saguchi K, et al. **J Biochem (Tokyo)** 1996 May;119(5):898–905

Mutational analysis of a plant defensin from radish (Raphanus sativus L.) reveals two adjacent sites important for antifungal activity. De Samblanx GW, et al. **J Biol Chem** 1997 Jan 10;272(2):1171–9

Structure and expression of the ATFa gene. Goetz J, et al. **J Biol Chem** 1996 Nov 22;271(47):29589–98

Membrane amine oxidase cloning and identification as a major protein in the adipocyte plasma membrane. Morris NJ, et al. **J Biol Chem** 1997 Apr 4;272(14):9388–92

Isolation of cDNA encoding guinea pig neutrophil cationic antibacterial polypeptide of 11 kDa (CAP11) and evaluation of CAP11 mRNA expression during neutrophil maturation. Nagaoka I, et al. **J Biol Chem** 1997 Sep 5; 272(36):22742–50

Coordinated amino acid changes in the evolution of mammalian defensins. Hughes AL, et al. **J Mol Evol** 1997 Jun;44(6):675–82

The murine eosinophil major basic protein gene (Prg2) maps to chromosome 2. Denzler KL, et al. **Mamm Genome** 1997 May;8(5):382–3

The chromosomal organization of the Plasmodium falciparum var gene family is conserved. Thompson JK, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):49–60

Expression of var genes located within polymorphic subtelomeric domains of Plasmodium falciparum chromosomes. Fischer K, et al. **Mol Cell Biol** 1997 Jul; 17(7):3679–86

Contextual dependence of steroid receptor function on an androgen-responsive enhancer. Scheller A, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):75–86

Two distinct mechanisms elicit androgen-dependent expression of the mouse sex-limited protein gene. Nelson SA, et al. **Mol Endocrinol** 1997 Apr;11(4):460–9

Origin and significance of the heterogeneity of protein hormones. Nagy AM, et al. **Nucl Med Biol** 1994 Apr; 21(3):317–30 (39 ref.)

Cloning and characterization of AFX, the gene that fuses to MLL in acute leukemias with a t(X;11)(q13;q23). Borkhardt A, et al. **Oncogene** 1997 Jan 16;14(2):195–202

Expression and characterization of cysteine-modified variants of an amino-terminal fragment of bactericidal/permeability-increasing protein. Horwitz AH, et al. **Protein Expr Purif** 1996 Aug;8(1):28–40

The past, present and future of transgenic bioreactors. Drohan WN. **Thromb Haemost** 1997 Jul;78(1):543–7 (57 ref.)

Genetic markers in the Tuvan population of Todja, Siberia. Pospelov LE, et al. **Tissue Antigens** 1997 Jun;49(6):629–34

Serum protein polymorphisms in seven populations from Middle Eastern and Eastern Europe. Danker-Hopfe H, et al. **Z Morphol Anthropol** 1995 Dec;81(1):3–21

[The gene pool of native inhabitants of the Samburg tundra] Osipova LP, et al. **Genetika** 1996 Jun;32(6):830–6 (Eng. Abstr.) **(Rus)**

[Ethnogenetics of the Komi-Zyrians according to data on the distribution of gene frequencies of erythrocyte and serum systems in the blood] Shubin PN, et al. **Genetika** 1997 Feb;33(2):235–42 (Eng. Abstr.) **(Rus)**

[A genetic pool study of the population of the Republic of Tyva using genetic markers for the search for associations with tuberculosis] Pospelov LE, et al. **Probl Tuberk** 1996; (4):38–41 (Eng. Abstr.) **(Rus)**

HISTORY

Molecular preservation and isotopy of Mesolithic human finds from the Ofnet cave (Bavaria, Germany). Bocherens H, et al. **Anthropol Anz** 1997 Jun;55(2):121–9

70th anniversary of the Rubino reaction [editorial] Panunto-Castelo A, et al. **Int J Lepr Other Mycobact Dis** 1996 Sep;64(3):316–9

[Serum proteins in human skeletal remains] Wiechmann I, et al. **Anthropol Anz** 1997 Jun;55(2):143–6 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

The degree of natural allergen exposure modifies eosinophil activity markers in the circulation of patients with mild asthma. Fernvik E, et al. **Allergy** 1996 Oct;51(10):697–705

Serum eosinophil cationic protein (ECP) as a marker of disease activity and treatment efficacy in seasonal asthma. Vatrella A, et al. **Allergy** 1996 Aug;51(8):547–55

Antibodies to endometrial transferrin and alpha 2-Heremans Schmidt (HS) glycoprotein in patients with endometriosis [published erratum appears in Am J Reprod Immunol 1997 Mar;37(3):277] Pillai S, et al. **Am J Reprod Immunol** 1996 May;35(5):483–94

On the correct determination of reference values for serum antibodies against pigeon serum antigen using a group of healthy blood donors. Bañales JL, et al. **Arch Med Res** 1997 Summer;28(2):289–91

Thermolabile beta-2 macroglycoprotein (Hakata antigen) in liver disease: biochemical and immunohistochemical study. Fukutomi T, et al. **Clin Chim Acta** 1996 Nov 29; 255(2):93–106

Monoclonal antibodies against human tetranectin, epitope characterization and use in immunohistochemistry. Høgdall CK, et al. **Clin Chim Acta** 1997 Feb 17;258(2):159–77

Allergic rhinitis in children: effects of flunisolide and disodium cromoglycate on nasal eosinophil cationic protein. Sensi LG, et al. **Clin Exp Allergy** 1997 Mar; 27(3):270–6

Comparison of basophil histamine release, eosinophil cationic protein and non-specific airway responsiveness between mite-sensitive asthmatic and non-asthmatic children and non-allergic controls. Takeda K, et al. **Clin Exp Allergy** 1996 Aug;26(8):918–25

Cloning and recombinant expression of a barred sand bass (Paralabrax nebulifer) cDNA. The encoded protein displays structural homology and immunological crossreactivity to human complement/cofactor related plasma proteins. Zipfel PF, et al. **Dev Comp Immunol** 1996 Nov-Dec;20(6):407–16

Cytokine production in the serum and spleen of mice from day 6 to 14 of gestation: cytokines/placenta/spleen/serum. Athanassakis I, et al. **Dev Immunol** 1996;4(4):247–55

Antineutrophil cytoplasm autoantibodies against bactericidal/permeability-increasing protein in inflammatory bowel disease. Walmsley RS, et al. **Gut** 1997 Jan;40(1):105–9

Production and characterization of the monoclonal antibody against SGP120, a novel serum protein. Basta M, et al. **Hybridoma** 1996 Feb;15(1):69–75

Tec family protein-tyrosine kinases and pleckstrin homology domains in mast cells. Kawakami Y, et al. **Immunol Lett** 1996 Dec;54(2-3):113–7

Relationship between activated eosinophils of the bronchial mucosa and serum eosinophil cationic protein in atopic asthma. Hoshino M, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):59–64

Serum TABM produced during anterior chamber-associated immune deviation passively transfers suppression of delayed-type hypersensitivity to primed mice. Wang Y, et al. **Int Immunol** 1997 Feb;9(2):211–8

Endogenously elicited antibodies to platelet derived growth factor-BB and platelet cytosolic protein inhibit aortic lesion development in the cholesterol-fed rabbit. Rutherford C, et al. **Int J Exp Pathol** 1997 Feb;78(1):21–32

70th anniversary of the Rubino reaction [editorial] Panunto-Castelo A, et al. **Int J Lepr Other Mycobact Dis** 1996 Sep;64(3):316–9

Analysis of rat serum allergens. Gordon S, et al. **J Allergy Clin Immunol** 1997 May;99(5):716–7

Use of native and recombinant bactericidal/permeability-increasing proteins (BPI) as antigens for detection of BPI-ANCA. Schultz H, et al. **J Immunol Methods** 1997 Jul 14;205(2):127–33

Ezrin, radixin and moesin are possible auto-immune antigens in rheumatoid arthritis. Wagatsuma M, et al. **Mol Immunol** 1996 Oct;33(15):1171–6

Pregnancy loss and autoantibodies against phospholipid-binding proteins. Falcón CR, et al. **Obstet Gynecol** 1997 Jun;89(6):975–80

Target antigen for anti-neutrophil cytoplasmic antibodies in inflammatory bowel disease [letter; comment] Stoffel MP, et al. **Scand J Gastroenterol** 1996 Sep;31(9):943–4. Comment on: Scand J Gastroenterol 1995 Jul;30(7):693–8.

Cationic myeloma M-components frequently show cross-reacting anti-DNA, Anti-F(ab')2 and anti-nucleosome specificities. Williams RC Jr, et al. **Scand J Rheumatol** 1997;26(2):79–87

Naturally occurring IgG autoantibodies to platelet cytoskeleton tropomyosin. Hou M, et al. **Thromb Haemost** 1996 Apr;75(4):642–7

[Bactericidal permeability increasing protein (BPI-ANCA marked chronic inflammatory bowel diseases and hepatobiliary diseases] Schnabel A, et al. **Med Klin** 1997 Jul 15;92(7):389–93 (Eng. Abstr.) **(Ger)**

[Isolation of cytotoxic proteins from human platelets] Golubeva TS, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):183–5 **(Rus)**

ISOLATION & PURIFICATION

The use of sequential affinity chromatography for separation of human neutrophil elastase, cathepsin G and azurocidin. Wątorek W, et al. **Acta Biochim Pol** 1996;43(3):503–6

Diagnosis of female genital schistosomiasis by indirect disease markers: determination of eosinophil cationic protein, neopterin and IgA in vaginal fluid and swab eluates. Poggensee G, et al. **Acta Trop** 1996 Dec 30;62(4):269–80

Impermeant antitumor sulfonylurea conjugates that inhibit plasma membrane NADH oxidase and growth of HeLa cells in culture. Identification of binding proteins from sera of cancer patients. Kim C, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):171–81

Removal of albumin from multiple human serum samples. Rengarajan K, et al. **Biotechniques** 1996 Jan;20(1):30–2

Optimization of serum protein separation by capillary electrophoresis [letter] Jenkins MA, et al. **Clin Chem** 1996 Nov;42(11):1886

A plasma protein isolated from brown shrimp (Penaeus californiensis) which enhances the activation of prophenoloxidase system by beta-1,3-glucan. Vargas-Albores F, et al. **Dev Comp Immunol** 1996 Sep-Oct; 20(5):299–306

Effects of catholytes on the mobilization of proteins after capillary isoelectric focusing. Manabe T, et al. **Electrophoresis** 1997 Jan;18(1):92–7

Identification and structure of activated-platelet protein-1, a protein with RNA-binding domain motifs that is expressed by activated platelets. Houng AK, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):209–18

A member of the arthropod defensin family from edible Mediterranean mussels (Mytilus galloprovincialis) [published erratum appears in Eur J Biochem 1996 Sep 15;240(3):815] Hubert F, et al. **Eur J Biochem** 1996 Aug 15;240(1):302–6

An angiogenic protein from bovine serum and milk--purification and primary structure of angiogenin-2. Strydom DJ, et al. **Eur J Biochem** 1997 Jul 15;247(2):535–44

Characterization of immunorelated peptides to porcidin P1. Alberdi F Jr, et al. **Immunol Cell Biol** 1995 Dec; 73(6):505–10

Isolation, antimicrobial activities, and primary structures of hamster neutrophil defensins. Mak P, et al. **Infect Immun** 1996 Nov;64(11):4444–9

Purification and in vitro activities of rabbit platelet microbicidal proteins. Yeaman MR, et al. **Infect Immun** 1997 Mar;65(3):1023–31

Purification and characterization of defensins from cystic fibrosis sputum. Soong LB, et al. **Inflamm Res** 1997 Mar; 46(3):98–102

Isolation and characterization of GBP28, a novel gelatin-binding protein purified from human plasma. Nakano Y, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):803–12

Polyol-promoted adsorption of serum proteins to amphiphilic agarose-based adsorbents. Berna N, et al. **J Chromatogr A** 1997 Mar 14;764(2):193–200

Cyanocarbons as ligands for electron donor acceptor chromatography of human serum proteins. Berna PP, et al. **J Chromatogr A** 1996 Nov 8;753(1):57–62

Selective removal of human serum amyloid P component from rat blood by use of an immunoaffinity membrane in an extracorporeal circulation system. Adachi T, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):47–54

Issues in the development of medical products based on human plasma. Josić D, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):253–69 (50 ref.)

Simultaneous analysis of microheterogeneity of immunoglobulins and serum protein fraction using high-voltage isoelectric focusing on six cellulose acetate membranes. Iijima S, et al. **J Clin Lab Anal** 1997;11(4):220–4

A comprehensive method to purify three major ANCA antigens: proteinase 3, myeloperoxidase and bactericidal/permeability-increasing protein from human neutrophil granule acid extract. Zhao MH, et al. **J Immunol Methods** 1996 Oct 16;197(1-2):121–30

An anaphylaxis inhibitory factor present in mouse serum. Astorquiza MI, et al. **J Investig Allergol Clin Immunol** 1996 Jan-Feb;6(1):50–4

Isolation of protein factors from opossum (Didelphis albiventris) serum which protect against Bothrops jararaca venom. Farah MF, et al. **Toxicon** 1996 Sep;34(9):1067–71

Erinacin, an antihaemorrhagic factor from the European hedgehog, Erinaceus europaeus. Mebs D, et al. **Toxicon** 1996 Nov-Dec;34(11-12):1313–6

Blood proteins from transgenic animal bioreactors. Luboń H, et al. **Transfus Med Rev** 1996 Apr;10(2):131–43 (86 ref.)

Serological serum protein fraction and responses to Brucella melitensis in lambs fed aflatoxins. Fernandez A, et al. **Vet Hum Toxicol** 1997 Jun;39(3):137–40

Evidence of serum proteins in neurons of autonomic ganglia from horses with 'mal seco'. Giruaudo Conesa LA, et al. **Vet Rec** 1996 Jun 29;138(26):646–7

Value of virus filtration as a method for improving the safety of plasma products [letter; comment] Burnouf T. **Vox Sang** 1996;70(4):235–6. Comment on: Vox Sang 1995;69(1):82–3.

[NADPH-containing, superoxide-producing lipoprotein fraction from blood serum. Isolation, purification, brief characteristics and mechanism of action] Simonian MA, et al. **Biokhimiia** 1996 May;61(5):932–8 (Eng. Abstr.) **(Rus)**

METABOLISM

Serum protein binding of propofol in patients with renal failure or hepatic cirrhosis. Costela JL, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):741–5

Serum magnesium and protein concentrations during the first five years of insulin-dependent diabetes in children. Tuvemo T, et al. **Acta Paediatr Suppl** 1997 Feb;418:7–10

Diagnosis of female genital schistosomiasis by indirect disease markers: determination of eosinophil cationic protein, neopterin and IgA in vaginal fluid and swab eluates. Poggensee G, et al. **Acta Trop** 1996 Dec 30;62(4):269–80

Impact of acidosis on nutritional status in chronic peritoneal dialysis patients. Dumler F, et al. **Adv Perit Dial** 1996; 12:307–10

Impact of peritoneal dialysis modality on nutritional and biochemical parameters. Dumler F, et al. **Adv Perit Dial** 1996;12:298–301

The effect of peritonitis on the peritoneal membrane transport properties in patients on CAPD. Goel S, et al. **Adv Perit Dial** 1996;12:181–4

Protein catabolic rate in CAPD patients: comparison of different techniques. Usha K, et al. **Adv Perit Dial** 1996; 12:284–7

High flux peritoneal membrane is a risk factor in survival of CAPD treatment. Wu CH, et al. **Adv Perit Dial** 1996; 12:105–9

Serum ECP levels in asthmatic patients: comparison with other follow-up parameters. Parra A, et al. **Allergy Asthma Proc** 1996 Jul-Aug;17(4):191–7

Calpromotin, a cytoplasmic protein, is associated with the formation of dense cells in sickle cell anemia. Moore RB, et al. **Am J Hematol** 1997 Oct;56(2):100–6

Association of eosinophil granule major basic protein with atopic cataract. Yokoi N, et al. **Am J Ophthalmol** 1996 Dec;122(6):825–9

Deposition of eosinophil granule proteins precedes blister formation in bullous pemphigoid. Comparison with neutrophil and mast cell granule proteins. Borrego L, et al. **Am J Pathol** 1996 Mar;148(3):897–909

Activation of human platelets by protein kinase C antibody: role for surface phosphorylation in homeostasis. Babinska A, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2134–44

Lymphatic drainage of the CNS: effects of lymphatic diversion/ligation on CSF protein transport to plasma. Boulton M, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1613–9

Protein osmotic pressure gradients and microvascular reflection coefficients. Drake RE, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H997–1002

Basal and adenosine-mediated protein flux from isolated coronary arterioles. Huxley VH, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1099–108

Plasmalemmal vesicles function as transcytotic carriers for small proteins in the continuous endothelium. Predescu SA, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H937–49

NaCl ingestion ameliorates plasma indexes of calcium deficiency. Tordoff MG. **Am J Physiol** 1997 Jul;273(1 Pt 2):R423–32

Contribution of ANP to plasma protein escape during VE: effects of thiorphan and atrial appendectomy. Tucker VL. **Am J Physiol** 1996 Sep;271(3 Pt 2):R610–8

Effects of ammonia and nitrate concentration on hematologic and serum biochemical profiles of hybrid striped bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al. **Am J Vet Res** 1997 Feb;58(2):131–5

Spectrophometric assay for measuring branched-chain amino acid concentrations: application for measuring the sensitivity of protein metabolism to insulin. Beckett PR, et al. **Anal Biochem** 1996 Aug 15;240(1):48–53

Fentanyl and alfentanil plasma protein binding in preterm and term neonates. Wilson AS, et al. **Anesth Analg** 1997 Feb;84(2):315–8

Blood sample processing effect on eosinophil cationic protein concentration. Rubira N, et al. **Ann Allergy Asthma Immunol** 1997 Apr;78(4):394–8

Inflammatory markers in childhood asthma. Kristjánsson S, et al. **Ann Med** 1996 Oct;28(5):395–9 (43 ref.)

Turnover of short-lived proteins in chick leukocytes following dietary treatments. Dror Y, et al. **Ann Nutr Metab** 1997;41(3):181–8

Effect of SDZ PSC 833 ([3'-keto-Bmt1]-[Val2]-cyclosporin) on serum protein binding and distribution to blood cells of doxorubicin, vincristine and etoposide in vitro. Watanabe T, et al. **Anticancer Drugs** 1997 Apr;8(4):400–4

Comparative pharmacokinetics, distributions in tissue, and interactions with blood proteins of conventional and sterically stabilized liposomes containing 2',3'-dideoxyinosine. Harvie P, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):225–9

In vitro protein-binding characteristics of delavirdine and its N-dealkylated metabolite. Chaput AJ, et al. **Antiviral Res** 1996 Oct;32(2):81–9

Denatured proteins as cofactors for plasminogen activation. Machovich R, et al. **Arch Biochem Biophys** 1997 Aug 15; 344(2):343–9

Macrophages expressing a fusion protein derived from bactericidal/permeability-increasing protein and IgG are resistant to endotoxin. Dahlberg PS, et al. **Arch Surg** 1996 Nov;131(11):1173–7; discussion 1177–8

Plasma acylation-stimulating protein in coronary artery disease. Cianflone K, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1239–44

Characterization of coffea canephora alpha-D-galactosidase blood group B activity. Phillips R, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):489–502

Fumonisin mycotoxicosis in broilers: plasma proteins and coagulation modifications. Espada Y, et al. **Avian Dis** 1997 Jan-Mar;41(1):73–9

Protein 7.2b of human erythrocyte membranes binds to calpromotin. Moore RB, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):294–7

Equimolar Hg-Se complex binds to selenoprotein P. Yoneda

S, et al. **Biochem Biophys Res Commun** 1997 Feb 3; 231(1):7–11

The human complement regulatory factor–H–like protein 1, which represents a truncated form of factor H, displays cell–attachment activity. Hellwage J, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):321–7

One–electron oxidation pathway of peroxynitrite decomposition in human blood plasma: evidence for the formation of protein tryptophan–centred radicals. Pietraforte D, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):743–50

Localization of a high–affinity inositol 1,4,5–trisphosphate/inositol 1,4,5,6–tetrakisphosphate binding domain to the pleckstrin homology module of a new 130 kDa protein: characterization of the determinants of structural specificity. Takeuchi H, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):561–8

Cell surface and serum protein phosphorylation by U–937 cell ectoprotein kinases. Geberhiwot T, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):269–78

Phenylhydrazine causes sulfhydryl oxidation and protein aggregation in hemoglobin–free human erythrocyte membranes. Hashmi AN, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):543–50

The interactions of alpha 2HS glycoprotein with metalloproteinases. Ochieng J, et al. **Biochem Mol Biol Int** 1996 Sep;40(1):13–20

Mechanism for the stabilization in vivo of the aziridine precursor –-(4–acetoxyphenyl)–2–chloro–N–methyl–ethylammonium chloride by serum proteins. Louw A, et al. **Biochem Pharmacol** 1997 Jan 24;53(2):189–97

Coupled folding and site–specific binding of the GCN4–bZIP transcription factor to the AP–1 and ATF/CREB DNA sites studied by microcalorimetry. Berger C, et al. **Biochemistry** 1996 Nov 26;35(47):14984–91

Differential scanning microcalorimetry indicates that human defensin, HNP–2, interacts specifically with biomembrane mimetic systems. Lohner K, et al. **Biochemistry** 1997 Feb 11;36(6):1525–31

Comparison of naturally occurring vitamin K–dependent proteins: correlation of amino acid sequences and membrane binding properties suggests a membrane contact site. McDonald JF, et al. **Biochemistry** 1997 Apr 29; 36(17):5120–7

A site of interaction between pleckstrin's PH domains and G beta gamma. Abrams CS, et al. **Biochim Biophys Acta** 1996 Dec 12;1314(3):233–8

The anion transporter and a 28 kDa protein are selectively photolabeled by p–azidobenzylphlorizin under conditions that alter RBC morphology, flexibility, and volume. Hoefner DM, et al. **Biochim Biophys Acta** 1997 Jul 25; 1327(2):231–41

Protein thiol modifications of human red blood cells treated with t–butyl hydroperoxide. Lii CK, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):147–56

cDNA cloning, tissue distribution, and subcellular localization of horseshoe crab big defensin. Kawabata S, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):289–92

Macromolecule–macromolecule interaction in drug distribution. V. Effects of plasma proteins on uptake of fractionated [3H]heparin in isolated rat Kupffer cells. Haba M, et al. **Biol Pharm Bull** 1996 Oct;19(10):1352–6

Quantitative evaluation of the gastrointestinal absorption of protein into the blood and lymph circulation. Tsume Y, et al. **Biol Pharm Bull** 1996 Oct;19(10):1332–7

Macromolecule–macromolecule interaction in drug distribution. IV. Molecular weight dependency in the interaction of fractionated [3H]heparin with plasma proteins. Watanabe J, et al. **Biol Pharm Bull** 1996 Feb; 19(2):287–90

Plasma protein variations in monozygotic twins discordant for schizophrenia. Vander Putten DM, et al. **Biol Psychiatry** 1996 Sep 15;40(6):437–42

Serum protein and zinc levels in patients with thoracic empyema. Balkan ME, et al. **Biol Trace Elem Res** 1996 Aug;54(2):105–12

In vitro swelling studies and preliminary biocompatibility evaluation of acrylamide–based hydrogels. Karadağ E, et al. **Biomaterials** 1996 Jan;17(1):67–70

The distribution of 10–hydroxy carbazepine in blood compartments. Jung H, et al. **Biopharm Drug Dispos** 1997 Jan;18(1):17–23

Binding characteristics of KNI–272 to plasma proteins, a new potent tripeptide HIV protease inhibitor. Kiriyama A, et al. **Biopharm Drug Dispos** 1996 Dec;17(9):739–51

Pharmacokinetics of higenamine in rabbits. Lo CF, et al. **Biopharm Drug Dispos** 1996 Dec;17(9):791–803

Enantioselective distribution of verapamil and norverapamil into human and rat erythrocytes: the role of plasma protein binding. Robinson MA, et al. **Biopharm Drug Dispos** 1996 Oct;17(7):577–87

Studies of a second family with the Quebec platelet disorder: evidence that the degradation of the alpha–granule membrane and its soluble contents are not secondary to a defect in targeting proteins to alpha–granules. Hayward CP, et al. **Blood** 1997 Feb 15;89(4):1243–53

Evidence that the expression and phosphorylation status of pleckstrin is modulated by Epstein–Barr virus in human B lymphocytes [letter] Kienzle N, et al. **Blood** 1997 May 1;89(9):3488–90

The in vitro binding kinetics of cisplatin to human plasma proteins is not affected by glutathione. Torti L, et al. **Boll Chim Farm** 1997 Apr;136(4):301–3

Reorganization of contractile systems and protein tyrosine phosphorylation in platelet aggregation. Ferri A, et al. **Boll Soc Ital Biol Sper** 1996 Nov–Dec;72(11–12):295–301

Eosinophil major basic protein in autologous serum and saline skin tests in chronic idiopathic urticaria [letter] Grattan CE, et al. **Br J Dermatol** 1997 Jan;136(1):141–2

The eosinophil granule proteins in serum, but not the oxidative metabolism of the blood eosinophils, are increased in cancer. Trulson A, et al. **Br J Haematol** 1997 Aug; 98(2):312–4

ADP–ribosylation of serum proteins: elevated levels in neoplastic cases due to altered NAD/ADP–ribose metabolism. Albeniz IU, et al. **Cancer Invest** 1997; 15(3):217–23

ADP–ribosylation of serum proteins: evaluation as a potential tumor marker. Albeniz IU, et al. **Cancer Lett** 1996 Nov 29;108(2):239–45

Ultrafiltration and subsequent high performance liquid chromatography for in vivo determinations of the protein binding of etoposide. Liliemark E, et al. **Cancer Lett** 1996 Aug 23;106(1):91–6

Measurement of DNA–protein cross–links in human leukocytes following acute ingestion of chromium in drinking water. Kuykendall JR, et al. **Carcinogenesis** 1996 Sep;17(9):1971–7

Human beta–defensin–1 is a salt–sensitive antibiotic in lung that is inactivated in cystic fibrosis. Goldman MJ, et al. **Cell** 1997 Feb 21;88(4):553–60

Correlation between cytosolic Ca2+ concentration, protein phosphorylation and platelet secretion. Dalla Via L, et al. **Cell Calcium** 1996 Nov;20(5):431–40

Response of radixin to perturbations of growth cone morphology and motility in chick sympathetic neurons in vitro. Gonzalez–Agosti C, et al. **Cell Motil Cytoskeleton** 1996;34(2):122–36

Kinetics of chlorambucil in vitro: effects of fluid matrix, human gastric juice, plasma proteins and red cells. Löf K, et al. **Chem Biol Interact** 1997 Mar 14;103(3):187–98

Release of lipopolysaccharide toxicity–modulating proteins in patients undergoing cardiopulmonary bypass using noncoated and heparin–coated extracorporeal circuits. A clinical pilot study. Bouma M, et al. **Chest** 1997 Mar; 111(3):577–83

Effect of nonspecific binding to plasma proteins on the antithrombin activities of unfractionated heparin, low–molecular–weight heparin, and dermatan sulfate. Cosmi B, et al. **Circulation** 1997 Jan 7;95(1):118–24

Non–covalent associations of proteins in plasma: self–, mixed fibrin(ogen), mixed protein–non–protein associations. London M. **Clin Biochem** 1997 Mar;30(2):83–9

Plasma protein abnormalities in nephrotic syndrome: effect on plasma colloid osmotic pressure and viscosity. Joven J, et al. **Clin Chem** 1997 Jul;43(7):1223–31

Sustained eosinophil cationic protein release into tears after a single high–dose conjunctival allergen challenge [see comments] Montan PG, et al. **Clin Exp Allergy** 1996 Oct; 26(10):1125–30. Comment in: Clin Exp Allergy 1996 Oct;26(10):1105–7.

Elevated serum eosinophilic cationic protein (ECP) and expression of pemphigus–like antibodies in a case of eosinophilic fasciitis [letter] Manolios N, et al. **Clin Exp Rheumatol** 1997 Mar–Apr;15(2):223–4

Children on continuous ambulatorial peritoneal dialysis: muscle and plasma proteins, amino acids and nutritional status. Canepa A, et al. **Clin Nephrol** 1996 Aug;46(2):125–31

Measurement and analysis of unbound drug concentrations. Wright JD, et al. **Clin Pharmacokinet** 1996 Jun;30(6):445–62 (142 ref.)

Seasonal variations of blood haptoglobin level of brown bears in Japan. Mominoki K, et al. **Comp Biochem Physiol A Physiol** 1996 Aug;114(4):349–53

Comparative studies on the extracellular release and biological activity of guinea pig neutrophil cationic antibacterial polypeptide of 11 kDa (CAP11) and defensins. Yomogida S, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):99–107

Plasma protein (albumin) catabolism by the tumor itself––implications for tumor metabolism and the genesis of cachexia. Stehle G, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):77–100 (255 ref.)

Evidence for leptin binding to proteins in serum of rodents and humans: modulation with obesity. Houseknecht KL, et al. **Diabetes** 1996 Nov;45(11):1638–43

Cytosolic proteins from neutrophilic granulocytes: a comparison between patients with severe chronic neutropenia and healthy donors. Kasper B, et al. **Electrophoresis** 1997 Jan;18(1):142–9

The role of the PH domain in the signal–dependent membrane targeting of Sos. Chen RH, et al. **EMBO J** 1997 Mar 17;16(6):1351–9

In vitro binding and phosphorylation of insulin receptor substrate 1 by the insulin receptor. Role of interactions mediated by the phosphotyrosine–binding domain and the pleckstrin–homology domain. Backer JM, et al. **Eur J Biochem** 1997 Apr 1;245(1):91–6

Specific stimulation of c–Fgr kinase by tyrosine–phosphorylated (poly)peptides––possible implication in the sequential mode of protein phosphorylation. Ruzzene M, et al. **Eur J Biochem** 1997 May 1;245(3):701–7

Changes of glycoprotein patterns in sera of humans under stress. Barisic K, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):97–101

Determination of plasma protein–bound malondialdehyde by derivative spectrophotometry. Lefevre G, et al. **Eur J Clin Chem Clin Biochem** 1996 Aug;34(8):631–6

Longitudinal changes in iron and protein status of elderly Europeans. SENECA Investigators. Lesourd B, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 2:S16–24

Differences between blacks and whites in plasma protein binding of drugs. Johnson JA, et al. **Eur J Clin Pharmacol** 1997;51(6):485–8

Eosinophil cationic protein and immunoglobulin levels in bronchoalveolar lavage fluid obtained from patients with chronic eosinophilic pneumonia [see comments] Boomars KA, et al. **Eur Respir J** 1996 Dec;9(12):2488–93. Comment in: Eur Respir J 1996 Dec;9(12):2437–9.

Do sputum eosinophils and ECP relate to the severity of asthma? Ronchi MC, et al. **Eur Respir J** 1997 Aug; 10(8):1809–13

Nedocromil sodium in obstructive airways disease: effect on symptoms and plasma protein leakage in sputum. Schoonbrood DF, et al. **Eur Respir J** 1997 Jul;10(7):1500–6

Role of N–myristylation in targeting of band 4.2 (pallidin) in nonerythroid cells. Risinger MA, et al. **Exp Cell Res** 1996 Dec 15;229(2):421–31

Interactions of bacterial adhesins with extracellular matrix and plasma proteins: pathogenic implications and therapeutic possibilities. Ljungh A, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):117–26 (79 ref.)

Blood chemistry changes in the rat induced by high doses of nitronyl free radical spin traps. Schaefer CF, et al. **Free Radic Biol Med** 1996;21(4):427–36

Hepatic ICG removal in the pig depends on plasma protein and hematocrit: evidence of sinusoidal binding disequilibrium and unstirred water layer effects. Ott P, et al. **Hepatology** 1997 Sep;26(3):679–90

Increased expression of fatty acid synthase (OA–519) in ovarian neoplasms predicts shorter survival. Gansler TS, et al. **Hum Pathol** 1997 Jun;28(6):686–92

Use of carcinogen–DNA and carcinogen–protein adduct biomarkers for cohort selection and as modifiable end points in chemoprevention trials. Kensler TW, et al. **IARC Sci Publ** 1996;(139):237–48 (70 ref.)

Intercellular adhesion molecule–1 on eosinophils is involved in eosinophil protein X release induced by cytokines. Horie S, et al. **Immunology** 1997 Feb;90(2):301–7

Tamm–Horsfall glycoprotein (THG) is a binder for surface membrane proteins on blood cells and glomerular mesangial cells. Yu CL, et al. **Immunopharmacology** 1997 Jan; 35(3):237–45

Protein exudation induced by manipulation of the intestines and mesentery during laparotomy in rat. A study of the mechanism of 'third space' loss. Moriwaki K, et al. **In Vivo** 1997 Jul–Aug;11(4):325–7

Changes in level of certain serum constituents following sciatectomy in the common frog, Rana tigrina (Daud). Karanth S, et al. **Indian J Exp Biol** 1995 Jan;33(1):54–7

Serum zinc, copper, magnesium, proteins and superoxide dismutase in leprosy patients on multidrug therapy––a follow–up study. Sethi NC, et al. **Indian J Lepr** 1996 Oct–Dec;68(4):325–33

Induction of tumor necrosis factor production from monocytes stimulated with mannuronic acid polymers and involvement of lipopolysaccharide–binding protein, CD14, and bactericidal/permeability–increasing factor. Jahr TG, et al. **Infect Immun** 1997 Jan;65(1):89–94

Distinct binding patterns of HS1 to the Src SH2 and SH3 domains reflect possible mechanisms of recruitment and activation of downstream molecules. Takemoto Y, et al. **Int Immunol** 1996 Nov;8(11):1699–705

In vitro blood compatibility evaluation of hollow fibre membrane using a controlled flow system: a comparative study. Matata BM, et al. **Int J Artif Organs** 1996 Oct; 19(10):582–9

In vitro and in vivo protein binding of methotrexate assessed by microdialysis. Maia MB, et al. **Int J Clin Pharmacol Ther** 1996 Aug;34(8):335–41

Docetaxel serum protein binding with high affinity to alpha 1–acid glycoprotein. Urien S, et al. **Invest New Drugs** 1996; 14(2):147–51

High levels of eosinophil cationic protein in wheezing infants predict the development of asthma. Koller DY, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):752–6

Interstitial fluid, plasma protein, colloid, and leukocyte uptake into initial lymphatics. Ikomi F, et al. **J Appl Physiol** 1996 Nov;81(5):2060–7

Effects of LDL–apheresis on serum lipoprotein (a), C4b binding protein, protein C, protein S, and complement components. Yoshidome H, et al. **J Atheroscler Thromb** 1994;1(2):103–7

Phosphopleckstrin inhibits gbetagamma–activable platelet phosphatidylinositol–4,5–bisphosphate 3–kinase. Abrams CS, et al. **J Biol Chem** 1996 Oct 11;271(41):25192–7

Phosphorylation of platelet pleckstrin activates inositol polyphosphate 5–phosphatase I. Auethavekiat V, et al. **J Biol Chem** 1997 Jan 17;272(3):1786–90

Acceleration of plasminogen activation by tissue plasminogen activator on surface–bound histidine–proline–rich glycoprotein. Borza DB, et al. **J Biol Chem** 1997 Feb 28;

272(9):5718–26
A single amino acid substitution in the pleckstrin homology domain of phospholipase C delta1 enhances the rate of substrate hydrolysis. Bromann PA, et al. **J Biol Chem** 1997 Jun 27;272(26):16240–6
High affinity binding of inositol phosphates and phosphoinositides to the pleckstrin homology domain of RAC/protein kinase B and their influence on kinase activity. Frech M, et al. **J Biol Chem** 1997 Mar 28; 272(13):8474–81
Cryptic origin of SPAI, a plasma protein with a transglutaminase substrate domain and the WAP motif, revealed by in situ hybridization and immunohistochemistry. Furukawa M, et al. **J Biol Chem** 1996 Nov 22;271(47):29517–20
Zinc as a cofactor for heparin neutralization by histidine-rich glycoprotein. Kluszynski BA, et al. **J Biol Chem** 1997 May 23;272(21):13541–7
High affinity binding of the pleckstrin homology domain of mSos1 to phosphatidylinositol (4,5)–bisphosphate. Kubiseski TJ, et al. **J Biol Chem** 1997 Jan 17; 272(3):1799–804
Phosphatidylinositol 4,5–bisphosphate binding to the pleckstrin homology domain of phospholipase C–delta1 enhances enzyme activity. Lomasney JW, et al. **J Biol Chem** 1996 Oct 11;271(41):25316–26
Differential regulation of actin depolymerizing factor and cofilin in response to alterations in the actin monomer pool. Minamide LS, et al. **J Biol Chem** 1997 Mar 28; 272(13):8303–9
Limited proteolysis of human alpha2–HS glycoprotein/fetuin. Evidence that a chymotryptic activity can release the connecting peptide. Nawratil P, et al. **J Biol Chem** 1996 Dec 6;271(49):31735–41
A comparative analysis of the phosphoinositide binding specificity of pleckstrin homology domains. Rameh LE, et al. **J Biol Chem** 1997 Aug 29;272(35):22059–66
Direct interaction of the Rho GDP dissociation inhibitor with ezrin/radixin/moesin initiates the activation of the Rho small G protein. Takahashi K, et al. **J Biol Chem** 1997 Sep 12;272(37):23371–5
Structural analysis of a tumor–produced sulfated glycoprotein capable of initiating muscle protein degradation. Todorov PT, et al. **J Biol Chem** 1997 May 9;272(19):12279–88
Improved blood compatibility of drawn polyamide sheets. Tanaka H, et al. **J Biomater Sci Polym Ed** 1996;8(3):211–24
Blood protein interactions with titanium surfaces. Wälivaara B, et al. **J Biomater Sci Polym Ed** 1996;8(1):41–8
Blood protein interactions with chromium surfaces. Wälivaara B, et al. **J Biomater Sci Polym Ed** 1996; 8(1):49–62
Plasma protein adsorption to sulfonated poly(ethylene oxide)–grafted polyurethane surface. Han DK, et al. **J Biomed Mater Res** 1996 Jan;30(1):23–30
Effect of parathyroid hormone (hPTH[1–34]) infusion on serum 1,25–dihydroxyvitamin D and parathyroid hormone in normal women. Kinyamu HK, et al. **J Bone Miner Res** 1996 Oct;11(10):1400–5
PTH–related protein is released into the mother's bloodstream during location: evidence for beneficial effects on maternal calcium–phosphate metabolism. Lippuner K, et al. **J Bone Miner Res** 1996 Oct;11(10):1394–9
Regulation mechanism of ERM (ezrin/radixin/moesin) protein/plasma membrane association: possible involvement of phosphatidylinositol turnover and Rho–dependent signaling pathway. Hirao M, et al. **J Cell Biol** 1996 Oct;135(1):37–51
Comparison of the Hummel–Dreyer method in high–performance liquid chromatography and capillary electrophoresis conditions for study of the interaction of (RS)–, (R)– and (S)–carvedilol with isolated plasma proteins. Oravcova J, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):349–57
Protein binding in plasma of valsartan, a new angiotensin II receptor antagonist. Colussi DM, et al. **J Clin Pharmacol** 1997 Mar;37(3):214–21
15N enrichments of casein and plasma protein amino acids in cows ingesting 15N–labelled ammonium sulphate. Casseron F, et al. **J Dairy Res** 1997 Aug;64(3):367–76
Eosinophil cationic protein (ECP) level and its correlation with eosinophil number or IgE level of peripheral blood in patients with various skin diseases. Kim TY, et al. **J Dermatol Sci** 1997 Aug;15(2):89–94
Role of tyrosine phosphorylation of HS1 in B cell antigen receptor–mediated apoptosis. Yamanashi Y, et al. **J Exp Med** 1997 Apr 7;185(7):1387–92
Oxidation of circulating proteins in alcoholics: role of acetaldehyde and xanthine oxidase. Grattagliano I, et al. **J Hepatol** 1996 Jul;25(1):28–36
Study of binding of thyroxin–conjugates to the thyroxin–binding proteins. Georgiou S, et al. **J Immunoassay** 1996 Feb;17(1):47–66
Phosphorylation and subcellular redistribution of pleckstrin in human neutrophils. Brumell JH, et al. **J Immunol** 1997 May 15;158(10):4862–71
HAX–1, a novel intracellular protein, localized on mitochondria, directly associates with HS1, a substrate of Src family tyrosine kinases. Suzuki Y, et al. **J Immunol** 1997 Mar 15;158(6):2736–44
Bactericidal/permeability–increasing protein release in whole blood ex vivo: strong induction by lipopolysaccharide and tumor necrosis factor–alpha. Dentener MA, et al. **J Infect Dis** 1997 Jan;175(1):108–17
Effect of neutrophil serine proteinases and defensins on lung epithelial cells: modulation of cytotoxicity and IL–8 production. Van Wetering S, et al. **J Leukoc Biol** 1997 Aug;62(2):217–26
Modification of the cholesterol efflux properties of human serum by enrichment with phospholipid. Jian B, et al. **J Lipid Res** 1997 Apr;38(4):734–44
Automated NOESY interpretation with ambiguous distance restraints: the refined NMR solution structure of the pleckstrin homology domain from beta–spectrin. Nilges M, et al. **J Mol Biol** 1997 Jun 13;269(3):408–22
Reactive astrocytes in acute stage after experimental brain injury: relationship to extravasated plasma protein and expression of heat shock protein. Okimura Y, et al. **J Neurotrauma** 1996 Jul;13(7):385–93
Neuroglial ATF/CREB factors interact with the human immunodeficiency virus type 1 long terminal repeat. Krebs FC, et al. **J Neurovirol** 1997 May;3 Suppl 1:S28–32 (28 ref.)
Vacuum ultrafiltration sampling for determination of plasma protein binding of drugs. Lam H, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1753–7
Enantioselective protein binding of semotiadil and levosemotiadil determined by high–performance frontal analysis. Rodriguez Rosas ME, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1595–601
Mangafodipir trisodium injection, a new contrast medium for magnetic resonance imaging: in vitro metabolism and protein binding studies of the active component MnDPDP in human blood. Toft KG, et al. **J Pharm Biomed Anal** 1997 Apr;15(7):983–8
Synthesis and physicochemical properties of the furan dicarboxylic acid, 3–carboxy–4–methyl–5–propyl–2–furanpropanoic acid, an inhibitor of plasma protein binding in uraemia. Costigan MG, et al. **J Pharm Pharmacol** 1996 Jun;48(6):635–40
Comparison of two binding equations for prediction of the concentration of unbound valproic acid in the serum of adult epileptic polytherapy patients. Kodama Y, et al. **J Pharm Pharmacol** 1996 Oct;48(10):1068–72
Rat protein binding and cerebral phospholipid affinity of the H3–receptor antagonist thioperamide. Plazzi PV, et al. **J Pharm Pharmacol** 1996 Jul;48(7):712–7
Age–dependent alteration of the serum–unbound fraction of nicardipine, a calcium–channel blocker, in man. Sugioka N, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1327–31
Effect of salicylic acid on the plasma protein binding and pharmacokinetics of misoprostol acid. Cook CS, et al. **J Pharm Sci** 1994 Jun;83(6):883–6
Age–related changes in valproic acid binding to rat serum proteins in vitro. Slattum PW, et al. **J Pharm Sci** 1996 Apr; 85(4):373–6
Binding of taxol to plastic and glass containers and protein under in vitro conditions. Song D, et al. **J Pharm Sci** 1996 Jan;85(1):29–31
An extended pharmacokinetic/pharmacodynamic model describing quantitatively the influence of plasma protein binding, tissue binding, and receptor binding on the potency and time course of action of drugs. Proost JH, et al. **J Pharmacokinet Biopharm** 1996 Feb;24(1):45–77
Interactions with human blood in vitro and pharmacokinetic properties in mice of liposomal N4–octadecyl–1–beta–D–arabinofuranosylcytosine, a new anticancer drug. Koller–Lucae SK, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1572–80
Plasma tetranectin levels and disease activity in patients with rheumatoid arthritis. Kamper EF, et al. **J Rheumatol** 1997 Feb;24(2):262–8
Aspects of protein bound copper in sheep plasma and its release in vitro especially after treatment with ammonium tetrathiomolybdate. Ayiannidis A, et al. **J Trace Elem Med Biol** 1996 Dec;10(4):245–50
Binding of sulphamethazine to pig plasma proteins and albumin. Munsey T, et al. **J Vet Pharmacol Ther** 1996 Apr; 19(2):135–41
Sequential changes in insulin–like growth factor 1, plasma proteins, and total body protein in severe sepsis and multiple injury. Clark MA, et al. **JPEN J Parenter Enteral Nutr** 1996 Sep–Oct;20(5):363–70
Tissue protein washout in sheep lung lymph. Drake RE, et al. **Lymphology** 1996 Sep;29(3):112–7
Protein peroxidation, magnesium deficiency and fibromyalgia. Eisinger J, et al. **Magnes Res** 1996 Dec; 9(4):313–6
Protein oxidation in hemodialysis and kidney transplantation. Odetti P, et al. **Metabolism** 1996 Nov;45(11):1319–22
Plasma protein binding of levamisole in several species. Sahagún A, et al. **Methods Find Exp Clin Pharmacol** 1997 Apr;19(3):185–7
Photoaffinity labeling of mefloquine–binding proteins in human serum, uninfected erythrocytes and Plasmodium falciparum–infected erythrocytes. Desneves J, et al. **Mol Biochem Parasitol** 1996 Nov 25;82(2):181–94
Effect of electric charge on the transperitoneal transport of plasma proteins during CAPD [see comments] Buis B, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1113–20. Comment in: Nephrol Dial Transplant 1997 Mar;12(3):621–2.
An index of plasma refilling in hemodialysis patients. Tabei K, et al. **Nephron** 1996;74(2):266–74
Evaluation of antioxidants, protein, and lipid oxidation products in blood from sporadic amiotrophic lateral sclerosis patients. Oteiza PI, et al. **Neurochem Res** 1997 Apr;22(4):535–9
Pathophysiology of spinal cord trauma: observations on vasogenic oedema and axonal injuries in human and experimental material. Olsson Y, et al. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):518–20
Serum zinc and protein levels: lack of a correlation in hospitalized patients with AIDS [see comments] Koch J, et al. **Nutrition** 1996 Jul–Aug;12(7–8):511–4. Comment in: Nutrition 1996 Jul–Aug;12(7–8):551–3.
Serum zinc and protein status in AIDS patients [editorial; comment] Odeh M. **Nutrition** 1996 Jul–Aug;12(7–8):551–3 . Comment on: Nutrition 1996 Jul–Aug;12(7–8):511–4.
Some plasma constituents correlate with human cataract location and nuclear colour. Donnelly CA, et al. **Ophthalmic Res** 1997;29(4):207–17
The acute phase response to cardiopulmonary bypass in children. Mitchell IM, et al. **Perfusion** 1996 Mar; 11(2):103–12
Erythrocytes and the transport of drugs and endogenous compounds. Highley MS, et al. **Pharm Res** 1996 Feb; 13(2):186–95 (50 ref.)
Interactions of aldosterone antagonist diuretics with human serum proteins. Takamura N, et al. **Pharm Res** 1997 Apr; 14(4):522–6
Determination of plasma protein adsorption on magnetic iron oxides: sample preparation. Thode K, et al. **Pharm Res** 1997 Jul;14(7):905–10
Flumazenil, diazepam, nordiazepam and oxazepam interactions on plasma protein binding. Wala EP, et al. **Pharmacol Res** 1995 Nov;32(5):299–304
Effects of calcium antagonists on binding of local anesthetics to plasma proteins and erythrocytes in mice. Jacob D, et al. **Pharmacology** 1996 Oct;53(4):219–23
Rapid tyrosine phosphorylation of HS1 in the response of mouse lymphoma L5178Y–R cells to photodynamic treatment sensitized by the phthalocyanine Pc 4. Xue LY, et al. **Photochem Photobiol** 1997 Jul;66(1):105–13
The acylation–stimulating protein pathway and regulation of postprandial metabolism. Sniderman AD, et al. **Proc Nutr Soc** 1997 Jul;56(2):703–12 (37 ref.)
Fatty acid acylation of platelet proteins. Van Cott EM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):33–7 (37 ref.)
Binding of tacrolimus (FK506) with human plasma proteins re–evaluation and effect of mycophenolic acid. Iwasaki K, et al. **Res Commun Mol Pathol Pharmacol** 1996 Dec; 94(3):251–7
Stability, blood partition, and protein binding of DA–5018, a new nonnarcotic analgesic. Shim HJ, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan;91(1):97–108
Characteristics of serum protein binding of felodipine. Valle M, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct; 94(1):73–88
Protein binding and in vitro serum thromboxane B2 inhibition by flunixin meglumine and meclofenamic acid in dog, goat and horse blood. Galbraith EA, et al. **Res Vet Sci** 1996 Jul;61(1):78–81
Seasonal variation in serum eosinophilic cationic protein (S–ECP) in a general population sample. Janson C, et al. **Respir Med** 1997 Jul;91(6):347–9
Different binding of 125I–LPS to plasma proteins from persons with high or low HDL. Eggesbø JB, et al. **Scand J Clin Lab Invest** 1996 Oct;56(6):533–43
The lymphatic circulation plays a dynamic role in blood volume and plasma protein restitution after hemorrhage. Lloyd SJ, et al. **Shock** 1996 Jun;5(6):416–23
Anaemia and serum protein alteration in patients with pressure ulcers. Fuoco U, et al. **Spinal Cord** 1997 Jan; 35(1):58–60
Differential interaction of natural and synthetic estrogens with extracellular binding proteins in a yeast estrogen screen. Arnold SF, et al. **Steroids** 1996 Nov;61(11):642–6
Effect of drugs and cocaine metabolites on cocaine and cocaethylene binding to human serum in vitro. Bailey DN. **Ther Drug Monit** 1997 Aug;19(4):427–30
Heat treatment of human serum to inactivate HIV does not alter protein binding of selected drugs. Mosley AK, et al. **Ther Drug Monit** 1997 Aug;19(4):477–9
Ultrafiltration using the Amicon MPS–1 for assessing methadone plasma protein binding. Wilkins JN, et al. **Ther Drug Monit** 1997 Feb;19(1):83–7
Proteins of the fibrinolytic system in human thrombi. Robbie LA, et al. **Thromb Haemost** 1996 Jan;75(1):127–33
Interaction of a new depolymerized holothurian glycosaminoglycan with proteins in human plasma. Minamiguchi K, et al. **Thromb Res** 1996 Aug 1;83(3):253–64
Detoxification of mercury by selenium by binding of equimolar Hg–Se complex to a specific plasma protein. Yoneda S, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):274–80
Influence of pancreas venous drainage on carbohydrate, lipid, and protein metabolism in dogs with and without immunosuppression. Wierzbicki Z, et al. **Transplant Proc** 1996 Dec;28(6):3506–8
Serum protein alterations in canine ehrlichiosis. Harrus S, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):241–9
The effect of the acute–phase response on in vitro drug metabolism and plasma protein binding in the horse. Mills PC, et al. **Vet Res Commun** 1997 Jul;21(5):361–8

The adipsin–acylation–stimulating protein pathway and microenvironmental metabolic regulation. Sniderman AD, et al. **World Rev Nutr Diet** 1997;80:44–81 (121 ref.)

Binding properties of Streptococcus suis for immunoglobulin G and other plasma proteins. Salasia SI, et al. **Zentralbl Veterinarmed [B]** 1996 Oct;43(8):497–503

[Effect of inhaled corticosteroids on serum eosinophil cationic protein and sIL–2R levels in asthmatics pulmonary hypertension] Wang H, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):306–8, 319 (Eng. Abstr.) **(Chi)**

[A study on protein metabolism in nephrotic patients treated with Chinese herbs] Li L, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):670–2 (Eng. Abstr.) **(Chi)**

[Examination of the total protein concentration and gamma–glutamyltransferase (gamma–GT) in calves during the first 14 days of life and their significance for predictions of health status in the first two postnatal weeks] Steffen S, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Aug; 104(8):272–6 (Eng. Abstr.) **(Ger)**

[Cell activation markers in rhinitis and rhinosinusitis. 1: Eosinophilic cationic protein (ECP)] Klimek L, et al. **Laryngorhinootologie** 1996 Nov;75(11):665–70 (Eng. Abstr.) **(Ger)**

[Cell biology of bronchial asthma: interesting new methods. Intracellular determination of cytokines in T–cells and basic proteins in eosinophilic granulocytes using flow cytometry] Krug N, et al. **Pneumologie** 1997 Apr;51(4):381–5 (26 ref.) (Eng. Abstr.) **(Ger)**

[Serum eosinophil cationic protein in infants during first wheezing episode] Takahashi Y, et al. **Arerugi** 1996 Nov; 45(11):1161–5 (Eng. Abstr.) **(Jpn)**

[Does the difference in anesthetic methods influence postoperative nitrogen balance?] Kim C. **Masui** 1996 Feb; 45(2):215–22 (Eng. Abstr.) **(Jpn)**

[ERM (ezrin/radixin/moesin) as crosslinkers between actin filaments and plasma membranes] Tsukita S. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1899–905 (44 ref.) **(Jpn)**

[Regulatory R proteins and lipid peroxidation in rheumatoid arthritis] Kochetova EV, et al. **Ter Arkh** 1996;68(12):76–8 (Eng. Abstr.) **(Rus)**

[Age, sex, genetic and exogenous factors as determinants of plasma protein binding of drugs] Lutsevich AN. **Vestn Ross Akad Med Nauk** 1996;(12):26–31 (100 ref.) (Eng. Abstr.) **(Rus)**

[Analysis of the connection between the level of protein fractions and immunoglobulins in blood serum with irradiation in nuclear power enterprise workers] Tel'nov VI. **Vopr Med Khim** 1996 Oct–Dec;42(4):328–33 (Eng. Abstr.) **(Rus)**

[Blood levels of eosinophil cationic protein in patients with allergic rhinitis. Evolution after treatment with corticoids] Alvarez Gutiérrez FJ, et al. **Arch Bronconeumol** 1997 Jan; 33(1):6–11 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Proteins involved in the Vroman effect during exposure of human blood plasma to glass and polyethylene. Turbill P, et al. **Biomaterials** 1996 Jul;17(13):1279–87

Alteration of the pharmacokinetics of small proteins by iodination. Bauer RJ, et al. **Biopharm Drug Dispos** 1996 Dec;17(9):761–74

PHARMACOLOGY

Serum from endometriosis patients impairs the development of mouse embryos in vitro—comparison with serum from tubal obstruction patient and plasmanate. Ito F, et al. **Acta Obstet Gynecol Scand** 1996 Nov;75(10):877–80

A cationic antimicrobial peptide enhances the infectivity of Coxiella burnetii. Aragon AS, et al. **Acta Virol** 1995 Sep; 39(4):223–226

Mechanisms of smooth muscle contraction elicited by cationic proteins in guinea pig trachealis. Strek ME, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):L133–40

Effect of defensins on interleukin–8 synthesis in airway epithelial cells. Van Wetering S, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L888–96

Evaluation of susceptibility of gram–positive and –negative bacteria to human defensins by using radial diffusion assay. Takemura H, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2280–4

Excimer laser effects on human corneal endothelium. Modulation by serum factor(s). Lambert RW, et al. **Arch Ophthalmol** 1996 Dec;114(12):1499–505

A serum factor potentiates ACh and AMPA receptor currents via differential signal transduction pathways. Nishizaki T, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):565–8

Mechanisms of action of bactericidal/permeability–increasing protein BPI on reconstituted outer membranes of gram–negative bacteria. Wiese A, et al. **Biochemistry** 1997 Aug 19;36(33):10311–9

Acylation–stimulating protein (ASP) regulates glucose transport in the rat L6 muscle cell line. Tao Y, et al. **Biochim Biophys Acta** 1997 Feb 18;1344(3):221–9

Defensin stimulates the binding of lipoprotein (a) to human vascular endothelial and smooth muscle cells. Higazi AA, et al. **Blood** 1997 Jun 15;89(12):4290–8

p15s (15–kD antimicrobial proteins) are stored in the secondary granules of Rabbit granulocytes: implications for antibacterial synergy with the bactericidal/permeability–increasing protein in inflammatory fluids. Zarember K, et al. **Blood** 1997 Jan 15;89(2):672–9

Survival factor–insensitive generation of reactive oxygen species induced by serum deprivation in neuronal cells. Satoh T, et al. **Brain Res** 1996 Sep 9;733(1):9–14

Serum deprivation alters the expression and the splicing at exons 7, 8 and 15 of the beta–amyloid precursor protein in the C6 glioma cell line. Sudoh S, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):12–22

Effect of burn patient serum on fibroblast and keratinocyte cell morphology. Khammo N, et al. **Burns** 1997 May; 23(3):212–7

Recombinant human alpha 2–HS glycoprotein inhibits insulin–stimulated mitogenic pathway without affecting metabolic signalling in Chinese hamster ovary cells overexpressing the human insulin receptor. Srinivas PR, et al. **Cell Signal** 1996 Dec;8(8):567–73

Effect of complement activation in human serum on isolated porcine islets. Kin T, et al. **Cell Transplant** 1996 Sep–Oct; 5(5 Suppl 1):S45–7

In vitro function of porcine hepatocyte spheroids in 100% human plasma. Sakai Y, et al. **Cell Transplant** 1996 Sep–Oct; 5(5 Suppl 1):S41–3

Identification of serum and urine proteins responsible for enhanced pigment production by group B streptococci as amylases. Rosa–Fraile M, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):594–6

Comparative studies on the extracellular release and biological activity of guinea pig neutrophil cationic antibacterial polypeptide of 11 kDa (CAP11) and defensins. Yomogida S, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):99–107

A plasma protein isolated from brown shrimp (Penaeus californiensis) which enhances the activation of prophenoloxidase system by beta–1,3–glucan. Vargas–Albores F, et al. **Dev Comp Immunol** 1996 Sep–Oct; 20(5):299–306

Serum can inhibit reversal of multidrug resistance by chemosensitisers. Lehnert M, et al. **Eur J Cancer** 1996 May; 32A(5):862–7

The nuclear location of annexin V in the human osteosarcoma cell line MG–63 depends on serum factors and tyrosine kinase signaling pathways. Mohiti J, et al. **Exp Cell Res** 1997 Jul 10;234(1):98–104

Cationic proteins increase the permeability of cultured rabbit tracheal epithelial cells: modification by heparin and extracellular calcium. Uchida DA, et al. **Exp Lung Res** 1996 Jan–Feb;22(1):85–99

Limulus factor D, a 43–kDa protein isolated from horseshoe crab hemocytes, is a serine protease homologue with antimicrobial activity. Kawabata S, et al. **FEBS Lett** 1996 Dec 2;398(2–3):146–50

Clavanins, alpha–helical antimicrobial peptides from tunicate hemocytes. Lee IH, et al. **FEBS Lett** 1997 Jan 3; 400(2):158–62

A synthetic lipopolysaccharide–binding peptide based on the neutrophil–derived protein CAP37 prevents endotoxin–induced responses in conscious rats. Brackett DJ, et al. **Infect Immun** 1997 Jul;65(7):2803–11

Sera from patients with falciparum malaria induce substance P gene expression in cultured human brain microvascular endothelial cells. Chiwakata CB, et al. **Infect Immun** 1996 Dec;64(12):5106–10

Effects of pH and salinity on the antimicrobial properties of clavanins. Lee IH, et al. **Infect Immun** 1997 Jul; 65(7):2898–903

Isolation, antimicrobial activities, and primary structures of hamster neutrophil defensins. Mak P, et al. **Infect Immun** 1996 Nov;64(11):4444–9

Broad–spectrum antimicrobial activity of human intestinal defensin 5. Porter EM, et al. **Infect Immun** 1997 Jun; 65(6):2396–401

Evaluation of the effects of defensins on neutrophil functions. Yomogida S, et al. **Inflamm Res** 1996 Feb;45(2):62–7

Eosinophil cationic protein induces insulin–like growth factor I receptor expression on bronchial epithelial cells. Chihara J, et al. **Int Arch Allergy Immunol** 1996;111 Suppl 1:43–5

Eosinophil granule proteins are selective activators of human heart mast cells. Patella V, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):200–2

ASP stimulates glucose transport in cultured human adipocytes. Maslowska M, et al. **Int J Obes Relat Metab Disord** 1997 Apr;21(4):261–6

Effects of eosinophil granule proteins on human corneal epithelial cell viability and morphology. Trocmé SD, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):593–9

Surfactant inhibition by plasma: gestational age and surfactant treatment effects in preterm lambs. Ikegami M, et al. **J Appl Physiol** 1996 Dec;81(6):2517–22

Phosphopleckstrin inhibits gbetagamma–activable platelet phosphatidylinositol–4,5–bisphosphate 3–kinase. Abrams CS, et al. **J Biol Chem** 1996 Oct 11;271(41):25192–7

Critical role of lipid composition in membrane permeabilization by rabbit neutrophil defensins. Hristova K, et al. **J Biol Chem** 1997 Sep 26;272(39):24224–33

Adsorbed serum protein mediated adhesion and growth behavior of bovine aortic endothelial cells on polyamine graft copolymer surfaces. Kikuchi A, et al. **J Biomater Sci Polym Ed** 1996;8(2):77–90

Effects of recombinant bactericidal, permeability–increasing protein on bacterial translocation and pulmonary neutrophil sequestration in burned mice. Rennekampff OH, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):17–21

Final checkpoint in the drug–promoted and poliovirus–promoted apoptosis is under post–translational control by growth factors. Tolskaya EA, et al. **J Cell Biochem** 1996 Dec 15;63(4):422–31

Induced PAI–1 mRNA expression and targeted protein accumulation are early G1 events in serum–stimulated rat kidney cells. Kutz SM, et al. **J Cell Physiol** 1997 Jan; 170(1):8–18

Fetal and postnatal sera differentially modulate human dermal fibroblast phenotypic and functional features in vitro. Moulin V, et al. **J Cell Physiol** 1997 Apr;171(1):1–10

Fluid flow induces enhancement of the Egr–1 mRNA level in osteoblast–like cells: involvement of tyrosine kinase and serum. Ogata T. **J Cell Physiol** 1997 Jan;170(1):27–34

Identification of human neutrophil–derived cathepsin G and azurocidin/CAP37 as chemoattractants for mononuclear cells and neutrophils. Chertov O, et al. **J Exp Med** 1997 Aug 29;186(5):739–47

An anaphylaxis inhibitory factor present in mouse serum. Astorquiza MI, et al. **J Investig Allergol Clin Immunol** 1996 Jan–Feb;6(1):50–4

CAP37, a neutrophil granule–derived protein stimulates protein kinase C activity in endothelial cells. Pereira HA, et al. **J Leukoc Biol** 1996 Sep;60(3):415–22

Accumulation of Alzheimer amyloid–beta peptide in cultured myocytes is enhanced by serum and reduced by cerebrospinal fluid. Mazur–Kolecka B, et al. **J Neuropathol Exp Neurol** 1997 Mar;56(3):263–72

Serum factors inhibit melanoma cell surface expression of type I and type II IGF receptors. Bellan C, et al. **J Recept Signal Transduct Res** 1996 Jan–Mar; 16(1–2):115–34

Human serum albumin shares the properties of estrocolyone–I, the inhibitor of the proliferation of estrogen–target cells. Sonnenschein C, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):147–54

Morphological and immunohistochemical studies on porcine serum–induced rat liver fibrosis. Shiga A, et al. **J Vet Med Sci** 1997 Mar;59(3):159–67

Stem cell factor (SCF) synergizes with megakaryocyte colony stimulating activity in post–irradiated aplastic plasma in stimulating human megakaryocytopoiesis. Deutsch VR, et al. **Med Oncol** 1996 Mar;13(1):31–42

Haptoglobin–related protein and apolipoprotein AI are components of the two trypanolytic factors in human serum. Tomlinson S, et al. **Mol Biochem Parasitol** 1997 May;86(1):117–20

Impairment of endothelial and subendothelial sites by a circulating plasma factor associated with minimal change disease. Cheung PK, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2185–91

Serum uncouples elevation of cyclic adenosine monophosphate concentration from cyclic adenosine monophosphate dependent morphological changes exhibited by cultured pituicytes. Ramsell KD, et al. **Neurosci Lett** 1997 Apr 18;226(1):41–4

Promotion of synthetic amyloid beta–peptide fibrillization by cell culture media and cessation of fibrillization by serum. Wegiel J, et al. **Neurosci Lett** 1996 Jun 28;211(3):151–4

Serum affects the characteristics of excitatory amino acid–binding sites on Müller cells. López–Colomé AM, et al. **Neurosci Res** 1996 May;25(1):25–32

Induction of epithelial chloride secretion by channel–forming cryptdins 2 and 3. Lencer WI, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8585–9

Antivenom activity of opossum (Didelphys marsupialis) serum fractions against Uracoan rattlesnake (Crotalus vegrandis Klauber, 1941) venom. Rodriguez–Acosta A, et al. **Roum Arch Microbiol Immunol** 1995 Oct–Dec; 54(4):325–30

Interactions of endotoxin with human blood cells and serum proteins. Schlichting E, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):167–76

Design of a potent novel endotoxin antagonist. Uknis ME, et al. **Surgery** 1997 Aug;122(2):380–5

A new serum protein (KX–5) induced by liver transplantation suppresses heart allograft rejection in nonspecific manner. Kamada N, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1271

[Vestibuloprotective activity of serum proteins from seal's blood] Iasnetsov VV, et al. **Biull Eksp Biol Med** 1994 Apr; 117(4):444–5 **(Rus)**

[Changes in cell membrane lipid composition when exposed to native plasma proteins during thermal trauma] L'vovskaia EI, et al. **Vopr Med Khim** 1996 Oct–Dec; 42(4):312–3 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Chronic tonsillitis in children: activation of polymorphonuclear cells from peripheral blood and tonsillar tissue. In vitro production of MPO, ECP and EPX. Mevio E, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 523:101–4

Interleukin–1 and defensins in thermoregulation, stress, and immunity. Korneva EA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:465–73

Endogenous vertebrate antibiotics. Defensins, protegrins, and

BLOOD PROTEINS

other cysteine-rich antimicrobial peptides. Lehrer RI, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:228-39 (55 ref.)

Endothelial permeability for macromolecules. Mechanistic aspects of pathophysiological modulation. van Hinsbergh WM. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1018-23 (61 ref.)

Serum complement and familial combined hyperlipidemia. Ylitalo K, et al. **Atherosclerosis** 1997 Mar 21;129(2):271-7

Barrier activity of fractionated human serum. Langford-Smith J, et al. **Aust N Z J Ophthalmol** 1997 May; 25 Suppl 1:S85-6

Protein involvement in thermally induced structural transitions of pig erythrocyte ghosts. Zhadan GG, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):11-20

Increased rotational mobility and extractability of band 3 from protein 4.2-deficient erythrocyte membranes: evidence of a role for protein 4.2 in strengthening the band 3-cytoskeleton linkage. Rybicki AC, et al. **Blood** 1996 Oct 1;88(7):2745-53

The acylation stimulating protein pathway: clinical implications. Cianflone K. **Clin Biochem** 1997 Jun; 30(4):301-12 (125 ref.)

ERM (ezrin/radixin/moesin) family: from cytoskeleton to signal transduction. Tsukita S, et al. **Curr Opin Cell Biol** 1997 Feb;9(1):70-5 (42 ref.)

Endogenous natural killer enhancing factor-B increases cellular resistance to oxidative stresses. Shau H, et al. **Free Radic Biol Med** 1997;22(3):497-507

Cellular antioxidant properties of human natural killer enhancing factor B. Sarafian TA, et al. **Free Radic Res** 1997 Mar;26(3):281-9

Total energy expenditure and the level of physical activity correlate with plasma leptin concentrations in five-year-old children. Salbe AD, et al. **J Clin Invest** 1997 Feb 15;99(4):592-5

Volume-sensitive transport systems and volume homeostasis in vertebrate red blood cells. Cossins AR, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):343-52 (97 ref.)

Selective inhibition of human and mouse natural killer tumor recognition using retroviral antisense in primary natural killer cells: involvement with MHC class I killer cell inhibitory receptors. Ortaldo JR, et al. **J Immunol** 1997 Feb 1;158(3):1262-7

Striatal target-induced axonal branching of dopaminergic mesencephalic neurons in culture via diffusible factors. Manier M, et al. **J Neurosci Res** 1997 May 15;48(4):358-71

Postnatal variations of serum protein fractions in cynomolgus macaques (Macaca fascicularis): evaluation from birth to 20 months of age. D'Ovidio MC, et al. **Lab Anim Sci** 1996 Jun;46(3):347-9

The hemagglutinin of Staphylococcus saprophyticus binds to a protein receptor on sheep erythrocytes. Meyer HG, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):37-43

P. falciparum rosetting mediated by a parasite-variant erythrocyte membrane protein and complement-receptor 1. Rowe JA, et al. **Nature** 1997 Jul 17;388(6639):292-5

[Role of biliary proteins in pathogenesis of cholesterol gallstones] Secknus R, et al. **Z Gastroenterol** 1997 Jan; 35(1):41-6 (57 ref.) (Eng. Abstr.) **(Ger)**

[Effect of low- and high-molecular components contained in human plasma on superoxide dismutase activity] Inayama T, et al. **Sangyo Eiseigaku Zasshi** 1996 Nov;38(6):260-1 **(Jpn)**

[Adipsin system--acylation-stimulation protein (ASP) and hyperapo-B] Rato Q, et al. **Rev Port Cardiol** 1996 May; 15(5):433-8, 366 (39 ref.) (Eng. Abstr.) **(Por)**

[Culturing T-lymphoblastic cell lines in media containing growth proteins] Kornilaeva GV, et al. **Vopr Virusol** 1997 May-Jun;42(3):133-4 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Virucidal treatment of blood protein products with UVC radiation. Chin S, et al. **Photochem Photobiol** 1997 Mar; 65(3):432-5

SECRETION

Eosinophil cationic protein and histamine after intestinal challenge in patients with cow's milk intolerance. Bengtsson U, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):216-21

Release of inflammatory mediators after cow's milk intake in a newborn with idiopathic pulmonary hemosiderosis. Torres MJ, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1120-3

STANDARDS

Determination of reference intervals for 13 plasma proteins based on IFCC international reference preparation (CRM470) and NCCLS proposed guideline (C28-P, 1992): a strategy for partitioning reference individuals with validation based on multivariate analysis. Ichihara K, et al. **J Clin Lab Anal** 1997;11(2):117-24

Serum protein standardization project in Japan: evaluation of an IFCC reference material (RPPHS/CRM470) and establishment of reference intervals. Itoh Y, et al. **J Clin Lab Anal** 1997;11(1):39-44

Plasma pool size and the safety of plasma derivatives [editorial; comment] Barker LF. **Transfusion** 1996 Sep; 36(9):768-9. Comment on: Transfusion 1996 Sep;36(9):770-5.

[Viral safety of hemoderivatives: in search of zero risk (editorial; comment)] Hernández JM, et al. **Sangre (Barc)** 1996 Apr;41(2):97-100. Comment on: Sangre (Barc) 1996 Apr;41(2):125-30. Comment on: Sangre (Barc) 1996 Apr;41(2):131-36. **(Spa)**

THERAPEUTIC USE

Synergistic effect of a recombinant N-terminal fragment of bactericidal/permeability-increasing protein and cefamandole in treatment of rabbit gram-negative sepsis. Lin Y, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):65-9

Recombinant N-terminal fragment of bactericidal/permeability increasing protein (rBPI21) prevents shock-induced microcirculatory alterations in the liver. Bauer C, et al. **Crit Care Med** 1997 Aug;25(8):1283-8

Facilitation of DLA-incompatible marrow grafts by donor-specific serum transferrin? Deeg HJ, et al. **Transpl Immunol** 1996 Jun;4(2):113-6

Powerful immunosuppression by a new 40-kd serum protein (KX-5) induced by liver transplantation. Kamada N, et al. **Transplant Proc** 1996 Dec;28(6):3112

Recombinant blood components: clinical administration today and tomorrow. Growe GH. **World J Surg** 1996 Nov-Dec;20(9):1194-9

TOXICITY

An experimental model to study the cytotoxic effects induced by beta-amyloid, histamine, LPS and serum from Alzheimer patients on cultured rat endothelial cells. Maneiro E, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan-Feb;19(1):5-12

Minimal change-like glomerular alterations induced by a human plasma factor. Cheung PK, et al. **Nephron** 1996; 74(3):586-93

BLOOD-RETINAL BARRIER

Developmental expression of murine Beta-trace in embryos and adult animals suggests a function in maturation and maintenance of blood-tissue barriers. Hoffmann A, et al. **Dev Dyn** 1996 Nov;207(3):332-43

Blood-ocular barrier damage: use of contrast-enhanced MRI. Manfré L, et al. **Eur Radiol** 1997;7(1):110-4

Analysis of the blood-retinal barrier: its relation to clinical and metabolic factors and progression to retinopathy in juvenile diabetics. A 4-year follow-up study. Castillo A, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Apr; 234(4):246-50

Reproducibility of vitreous fluorophotometry in patients with type 1 diabetes mellitus. Jager J, et al. **Ophthalmologica** 1997;211(4):209-13

Evidence for breaches of the retinal vasculature in acquired immune deficiency syndrome angiopathy. A fluorescent microsphere study. Glasgow BJ. **Ophthalmology** 1997 May; 104(5):753-60

DRUG EFFECTS

The effect of TNF-alpha and IL-6 on the permeability of the rat blood-retinal barrier in vivo. Bamforth SD, et al. **Acta Neuropathol (Berl)** 1996;91(6):624-32

Vitreous fluorophotometry and changes in blood-retinal barrier permeability induced by bendazac lysine. Nuzzi G, et al. **Acta Ophthalmol Scand** 1997 Feb;75(1):41-3

Interleukin-1 beta-induced disruption of the retinal vascular barrier of the central nervous system is mediated through leukocyte recruitment and histamine. Bamforth SD, et al. **Am J Pathol** 1997 Jan;150(1):329-40

Modulation of retinal endothelial barrier in an in vitro model of the retinal microvasculature. Haselton FR, et al. **Exp Eye Res** 1996 Aug;63(2):211-22

[Central serous chorioretinopathy in systemic therapy with corticosteroids] Spraul CW, et al. **Ophthalmologe** 1997 Jun; 94(6):392-6 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Barrier activity of fractionated human serum. Langford-Smith J, et al. **Aust N Z J Ophthalmol** 1997 May; 25 Suppl 1:S85-6

Pathological upregulation of inner blood-retinal barrier Glut1 glucose transporter expression in diabetes mellitus. Kumagai AK, et al. **Brain Res** 1996 Jan 15;706(2):313-7

Maturation of the blood-retina barrier in the developing pecten oculi of the chicken. Liebner S, et al. **Brain Res Dev Brain Res** 1997 Jun 18;100(2):205-19

Intravitreal sustained release of VEGF causes retinal neovascularization in rabbits and breakdown of the blood-retinal barrier in rabbits and primates. Ozaki H, et al. **Exp Eye Res** 1997 Apr;64(4):505-17

Inward and outward permeability of the blood-retinal barrier in experimental myopia. Yoshida A, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S239-42

Blood-retinal barrier (BRB) breakdown in experimental autoimmune uveoretinitis: comparison with vascular endothelial growth factor, tumor necrosis factor alpha, and interleukin-1beta-mediated breakdown. Luna JD, et al. **J Neurosci Res** 1997 Aug 1;49(3):268-80

Arachidonate transport through the blood-retina and blood-brain barrier of the rat during aging. Strosznajder J, et al. **Neurosci Lett** 1996 May 17;209(3):145-8

Fluorescein angiographic evaluation of the effect of latanoprost treatment on blood-retinal barrier integrity: a review of studies conducted on pseudophakic glaucoma patients and on phakic and aphakic monkeys. Hoyng PF, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S83-8 (33 ref.)

[Tyndallometry and cell count in the anterior chamber in retinal detachment] Amann T, et al. **Klin Monatsbl Augenheilkd** 1997 Jan;210(1):43-7 (Eng. Abstr.) **(Ger)**

[Structural and functional disorders of transcapillary metabolism if retina in patients with diabetic retinopathy] Sorokin EL, et al. **Vestn Oftalmol** 1997 Mar-Apr; 113(2):16-9 (Eng. Abstr.) **(Rus)**

BLOOD SEDIMENTATION

Comparison of factor VIII-related antigen and erythrocyte sedimentation rate in outpatient management of vasculitis. Roberts WN, et al. **Angiology** 1996 Nov;47(11):1081-7

Polymyalgia rheumatica without significantly increased erythrocyte sedimentation rate. A more benign syndrome. González-Gay MA, et al. **Arch Intern Med** 1997 Feb 10; 157(3):317-20

Alterations in echinocyte transformation and erythrocyte sedimentation rate during hemodialysis. Agroyannis B, et al. **Artif Organs** 1997 Apr;21(4):327-30

The role of aggregation kinetics in the sedimentation of erythtocytes. Petrov VG, et al. **Biorheology** 1996 Jul-Oct; 33(4-5):353-64

Erythrocyte sedimentation in columns and the significance of ESR. Woodland NB, et al. **Biorheology** 1996 Nov-Dec; 33(6):477-88

Serum sialic acid and its relationship to various haematological parameters, including erythrocyte sedimentation rate. Crook MA, et al. **Br J Biomed Sci** 1997 Jun;54(2):100-3

Erythrocyte sedimentation rate (ESR) at presentation is a prognostic indicator for duration of treatment in polymyalgia rheumatica (PMR) [letter] Pountain G, et al. **Br J Rheumatol** 1997 Apr;36(4):508-9

Evaluation of the erythrocyte sedimentation rate in children presenting with limp, fever, or abdominal pain. Huttenlocher A, et al. **Clin Pediatr (Phila)** 1997 Jun; 36(6):339-44

White blood cells, C-reactive protein and erythrocyte sedimentation rate in pneumococcal pneumonia in children. Korppi M, et al. **Eur Respir J** 1997 May;10(5):1125-9

Rheumatic disease: choosing the most useful diagnostic tests. Shmerling RH. **Geriatrics** 1996 Nov;51(11):22-6, 29-30, 32

C-reactive protein is more sensitive than erythrocyte sedimentation rate for diagnosis of infective endocarditis. Hogevik H, et al. **Infection** 1997 Mar-Apr;25(2):82-5

Clinical significance of erythrosedimentation rate in cancer in relation to cytokine production: correlation with high IL-6 and low IL-2 blood concentrations. Lissoni P, et al. **J Biol Regul Homeost Agents** 1996 Apr-Sep;10(2-3):60-2

The reference value of erythrocyte sedimentation rate for differential diagnosis of rheumatic fever among Bangladeshi children. Zaman MM, et al. **J Epidemiol** 1996 Jun; 6(2):109-13

Rising erythrocyte sedimentation rate during several years before diagnosis can be a predictive factor in 70% of renal cell carcinoma patients. The benefit of knowing subject-based reference values. Iversen OH, et al. **J Intern Med** 1996 Sep;240(3):133-41

Population-based erythrocyte sedimentation rates in 3910 subjectively healthy Norwegian adults. A statistical study based on men and women from the Oslo area. Wetteland P, et al. **J Intern Med** 1996 Sep;240(3):125-31

Is the erythrocyte sedimentation rate outdated? [letter; comment] Freeman A. **J R Soc Med** 1997 Mar;90(3):179-80 . Comment on: J R Soc Med 1997 Jan;90(1):16-8.

Haemoglobin concentration and erythrocyte sedimentation rate in primary care patients [see comments] Kanfer EJ, et al. **J R Soc Med** 1997 Jan;90(1):16-8. Comment in: J R Soc Med 1997 Mar;90(3):179-80. Comment in: J R Soc Med 1997 Apr;90(4):236. Comment in: J R Soc Med 1997 Apr;90(4):236-7.

Haemoglobin and ESR [letter; comment] Lane R. **J R Soc Med** 1997 Apr;90(4):236. Comment on: J R Soc Med 1997 Jan;90(1):16-8.

Haemoglobin and ESR [letter; comment] Porter AW. **J R Soc Med** 1997 Apr;90(4):236-7. Comment on: J R Soc Med 1997 Jan;90(1):16-8.

Comparative usefulness of C-reactive protein and erythrocyte sedimentation rate in patients with rheumatoid arthritis. Wolfe F. **J Rheumatol** 1997 Aug;24(8):1477-85

The C-reactive protein but not erythrocyte sedimentation rate is associated with clinical severity in patients with osteoarthritis of the knee or hip. Wolfe F. **J Rheumatol** 1997 Aug;24(8):1486-8

Diagnosing polymyalgia rheumatica [letter; comment] Hopayian K. **Lancet** 1996 Sep 28;348(9031):899. Comment on: Lancet 1996 Aug 24;348(9026):550.

Clinical problem-solving -- where did good old clinical diagnosis go? [letter] Glaser RJ. **N Engl J Med** 1997 Sep 25;337(13):941; discussion 942

Erythrocyte sedimentation rate, an underestimated tool in chronic renal failure. Brouillard M, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2244-7

Serum C-reactive protein, erythrocyte sedimentation rate and white blood cell count in septic arthritis of children.

Kallio MJ, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):411–3

Erythrocyte sedimentation rate and stroke incidence in the NHANES I Epidemiologic Follow-up Study [letter; comment] Gillum RF, et al. **Stroke** 1997 Apr;28(4):873–4 . Comment on: Stroke 1996 Nov;27(11):1999–2004.

A preliminary comparison of plasma fibrinogen concentrations, leukocyte numbers and erythrocyte sedimentation rate as non-specific indicators of inflammatory conditions in buffalo (Bubalis bubalis). Zargham Khan M, et al. **Vet Res Commun** 1997 May; 21(4):265–71

[Leukocyte migration during erythrocyte sedimentation] Bogár L, et al. **Orv Hetil** 1997 Apr 6;138(14):861–5 (Eng. Abstr.) **(Hun)**

[Study of erythrocyte sedimentation rate in patients with pulmonary tuberculosis] Yanagisawa N, et al. **Kansenshogaku Zasshi** 1996 Sep;70(9):955–62 (Eng. Abstr.) **(Jpn)**

[Sedimentation rate and renal cancer] Iversen OH, et al. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2493–6 (8 ref.) (Eng. Abstr.) **(Nor)**

DRUG EFFECTS

Enhancement of erythrocyte sedimentation rate by polymerized hemoglobin. Tsai SP, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):513–23

RADIATION EFFECTS

Effects of a homogeneous magnetic field on erythrocyte sedimentation and aggregation. Lino M. **Bioelectromagnetics** 1997;18(3):215–22

BLOOD SPECIMEN COLLECTION

Calming minds or killing pain in newborn infants? [comment] Lindahl S. **Acta Paediatr** 1997 Aug;86(8):787–8. Comment on: Acta Paediatr 1997 Aug;86(8):837–42.

The efficacy of sucrose for relieving procedural pain in neonates—a systematic review and meta-analysis [see comments] Stevens B, et al. **Acta Paediatr** 1997 Aug; 86(8):837–42. Comment in: Acta Paediatr 1997 Aug;86(8):787–8.

The effects of fetal blood sampling on ventricular filling patterns: differences between normally grown and growth-retarded fetuses. Capponi A, et al. **Am J Perinatol** 1996 Nov;13(8):507–12

The ability of the Haemonetics 4 Cell Saver System to remove tissue factor from blood contaminated with amniotic fluid. Bernstein HH, et al. **Anesth Analg** 1997 Oct; 85(4):831–3

The rate of blood withdrawal affects the accuracy of jugular venous bulb. Oxygen saturation measurements. Matta BF, et al. **Anesthesiology** 1997 Apr;86(4):806–8

Blood culture volume and detection of coagulase negative staphylococcal septicaemia in neonates. Jawaheer G, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jan;76(1):F57–8

A Danish pilot study of population-based cord blood sampling [letter] Ebbesen P, et al. **Bone Marrow Transplant** 1997 Jul;20(1):90–1

Collection of circulating progenitor cells after epirubicin, paclitaxel and filgrastim in patients with metastatic breast cancer. Pedrazzoli P, et al. **Br J Cancer** 1997;75(9):1368–72

Reduced aliquot size for a plasma organochlorine assay for use in epidemiological studies. Laden F, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):333–8

Use of filter paper for sample collection and transport in steroid pharmacology. Howe CJ, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1408–15

Comparison of hyperinsulinaemic clamp experiments using venous, 'arterialized' venous or capillary euglycaemia. Nauck MA, et al. **Clin Physiol** 1996 Nov;16(6):589–602

Effect of small sample volume on five glucose monitoring systems [letter] Velazquez FR, et al. **Diabetes Care** 1996 Aug;19(8):903–4

Self management of oral anticoagulant therapy after heart valve replacement. Hasenkam JM, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):935–42

Home collection kits for HIV testing: evaluation of three strategies for dealing with insufficient dried blood specimens. Tao G, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Aug 1;15(4):312–7

Source of error on A-aDO2 calculated from blood stored in plastic and glass syringes. Wu EY, et al. **J Appl Physiol** 1997 Jan;82(1):196–202

Optimal conditions for collection of blood samples for assay of alpha 2-macroglobulin-trypsin complex-like substance (MTLS). Kato M, et al. **J Clin Lab Anal** 1996;10(5):239–42

Effect of different chemotherapy regimens on peripheral-blood stem-cell collections in patients with breast cancer receiving granulocyte colony-stimulating factor. Demirer T, et al. **J Clin Oncol** 1997 Feb; 15(2):684–90

The order of draw of blood specimens into additive containing tubes not affect potassium and calcium measurements. Majid A, et al. **J Clin Pathol** 1996 Dec; 49(12):1019–20

In vitro evaluation of the effects of transportation and storage on platelet concentrates. Lo SC, et al. **J Formos Med Assoc** 1997 Mar;96(3):189–93

Diagnosis of measles with an IgM capture EIA: the optimal timing of specimen collection after rash onset. Helfand RF, et al. **J Infect Dis** 1997 Jan;175(1):195–9

Immunoreactive inhibin concentration in blood tested under variable sampling conditions. Blaakaer J, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):325–8

From the Centers for Disease Control and Prevention. Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices—Ohio and New York City, 1996. **JAMA** 1997 Apr 9;277(14):1106–7

Removal of catheter distortion in multiple indicator dilution studies: a deconvolution-based method and case studies on glucose blood-tissue exchange. Sparacino G, et al. **Med Biol Eng Comput** 1997 Jul;35(4):337–42

Legal issues concerning the taking of blood samples by a forensic medical examiner [letter; comment] Corre N. **Med Leg J** 1996;64 (Pt 4):198–9. Comment on: Med Leg J 1996;64 (Pt 1):43.

Dried blood spots collected on filter paper: an international resource for the diagnosis and genetic characterization of human immunodeficiency virus type-1. Cassol SA, et al. **Mem Inst Oswaldo Cruz** 1996 May-Jun;91(3):351–8

Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices—Ohio and New York City, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Mar 14;46(10):217–21

Estimation of 99Tcm-MAG3 clearance using a single blood sample obtained over a continuous time interval. Piera C, et al. **Nucl Med Commun** 1997 Jan;18(1):60–5

Studies in sheep examining plasma follistatin elevations due to frequent blood sampling or surgery. Klein R, et al. **Reprod Fertil Dev** 1996;8(2):273–7

Comparison of four commercial citrate blood collection systems for platelet function analysis by the PFA-100 system. Heilmann EJ, et al. **Thromb Res** 1997 Jul 1; 87(1):159–64

Lipolytic enzyme and phospholipid level changes in intraoperative salvaged blood. Langton SR, et al. **Transfus Med** 1991 Dec;1(4):263–7

The expression of p-selectin during collection, processing, and storage of platelet concentrates: relationship to loss of in vivo viability. Holme S, et al. **Transfusion** 1997 Jan; 37(1):12–7

Composition of peripheral blood progenitor cell components collected from healthy donors. Stroncek DF, et al. **Transfusion** 1997 Apr;37(4):411–7

[Evaluation of sensitivity of PCR for detecting DNA of Trypanosoma vivax with several methods of blood sample preparations] Desquesnes M, et al. **Rev Elev Med Vet Pays Trop** 1996;49(4):322–7 (Eng. Abstr.) **(Fre)**

[Heart rate accelerations in the fetus during fetal blood sampling sub partu] Tzanov G, et al. **Z Geburtshilfe Neonatol** 1997 Jan-Feb;201(1):6–10 (Eng. Abstr.) **(Ger)**

[Blood collection from central venous catheter—valid also for blood coagulation analysis?] Werner W, et al. **Zentralbl Chir** 1996;121(1):58–60 (Eng. Abstr.) **(Ger)**

[Screening of glucose intolerance with fasting blood samples] Shiba T. **Nippon Rinsho** 1996 Oct;54(10):2800–6 (15 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Iatrogenic median and femoral neuropathy. Pradhan S, et al. **J Assoc Physicians India** 1995 Feb;43(2):141

Pseudoaneurysm formation is a known complication of both arterial manipulations and arterial injuries [letter] Tekinalp H, et al. **J Pediatr Surg** 1996 Aug;31(8):1197

False aneurysm with median nerve palsy after iatrogenic brachial artery puncture. Yip KM, et al. **Postgrad Med J** 1997 Jan;73(855):43–4

Fetal hepatic necrosis following blood sampling from the intrahepatic vein. Sturgiss SN, et al. **Prenat Diagn** 1996 Sep;16(9):866–9

ECONOMICS

[European plasma at risk to be eleminated. The prize is too high when compared with the USA] Blombäck M, et al. **Lakartidningen** 1997 Jan 8;94(1-2):15–6 **(Swe)**

INSTRUMENTATION

Siliconized glass versus polypropylene to reduce in vitro platelet activation [letter; comment] Merryman P, et al. **Am J Hematol** 1997 Apr;54(4):343–4. Comment on: Am J Hematol 1995 Sep;50(1):40–5.

Pneumatic transport exacerbates interference of room air contamination in blood gas samples. Astles JR, et al. **Arch Pathol Lab Med** 1996 Jul;120(7):642–7

Measurement of organochlorine levels in postprandial serum or in blood collected in serum separator tubes. Longnecker MP, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep; 5(9):753–5

Sampling arterial blood with a fine needle [letter] Giner J, et al. **Chest** 1997 May;111(5):1474

Clinical evaluation of serial blood processing at point of care. Estey CA, et al. **Clin Chem** 1997 Feb;43(2):360–2

CryoSeal system, a new device for generating cryoprecipitate from plasma. Gosselin RC, et al. **Clin Chem** 1997 Sep; 43(9):1782–3

Positive interference in lithium determinations from clot activator in collection container. Sampson M, et al. **Clin Chem** 1997 Apr;43(4):675–9

Reliability of serum separator blood drawing tubes under routine conditions [letter] Eichhorn U, et al. **Eur J Clin Chem Clin Biochem** 1997 Jun;35(6):483–4

Unusual interference from primary collection tube in a high-performance liquid chromatography assay of amiodarone. Murthy VV. **J Clin Lab Anal** 1997;11(4):232–4

Simple apparatus for serial blood sampling in rodents permitting simultaneous measurement of locomotor activity as illustrated with cocaine. Hutchaleelaha A, et al. **J Pharmacol Toxicol Methods** 1997 Feb;37(1):9–14

The use of an automated microsampling system for the characterization of growth hormone pulsatility in newborn babies. Adcock CJ, et al. **Pediatr Res** 1997 Jul;42(1):66–71

Stability of therapeutic drug measurement in specimens collected in VACUTAINER plastic blood-collection tubes. Dasgupta A, et al. **Ther Drug Monit** 1996 Jun; 18(3):306–9

Impact of the blood collection tube on the activation of coagulation [letter] Polack B, et al. **Thromb Haemost** 1997 Jan;77(1):217–8

Inadequate quality of a blood collection tube containing an anticoagulant/platelet inhibitor mixture [letter] Polack B, et al. **Thromb Haemost** 1997 May;77(5):1035–6

SampLink: a new system for the collection of donor blood samples. Shinar E, et al. **Transfus Med** 1996 Jun;6(2):149–53

[EMLA for anesthesia of puncture sites for large lumen indwelling venous catheters for autologous plasma and erythrocyte concentrate donation] Gelowicz-Maurer M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jan;32(1):27–9 (Eng. Abstr.) **(Ger)**

[General hematological tests. A. Effects of the blood sample containers and anticoagulants on the determination of lymphocyte surface markers] Bando S, et al. **Rinsho Byori** 1996 Nov;Suppl 103:123–8 **(Jpn)**

[Blood chemical analysis. F. Fluctuations in the bilirubin contents caused by changes in instrument, reagents, and sample containers used in the test] Iizuka K, et al. **Rinsho Byori** 1996 Nov;Suppl 103:187–91 **(Jpn)**

[From sample collection to testing. B. Evaluation of sample condensation in a container without a cover] Ikeda H, et al. **Rinsho Byori** 1996 Nov;Suppl 103:21–6 **(Jpn)**

[From sample collection to testing. C. Evaluation of efficacy of blood-collecting tubes designed for hemodialysis] Ise T, et al. **Rinsho Byori** 1996 Nov;Suppl 103:27–34 **(Jpn)**

[Transition and the current status of sampling equipment] Ito K, et al. **Rinsho Byori** 1996 Nov;Suppl 103:279–81 **(Jpn)**

[From sample collection to testing. E. Evaluation of tubes for collecting minute quantities of blood for emergency testing of newborn infants] Nagamine Y, et al. **Rinsho Byori** 1996 Nov;Suppl 103:39–43 **(Jpn)**

[From sample collection to testing. A. A cover effect of a separating agent in a separator-containing vacuum blood-collecting tube] Obara T, et al. **Rinsho Byori** 1996 Nov;Suppl 103:8–20 **(Jpn)**

[General hematological tests. B. Evaluation of basophilic fractions by using Hemogard Plus] Ohtani H, et al. **Rinsho Byori** 1996 Nov;Suppl 103:129–33 **(Jpn)**

[From sample collection to testing. D. Designing of a transcutaneous blood-collecting tube] Okumiya T, et al. **Rinsho Byori** 1996 Nov;Suppl 103:35–8 **(Jpn)**

METHODS

Diagnosis of hypoglycaemia: effects of blood sample handling and evaluation of a glucose photometer in the low glucose range. Elimam A, et al. **Acta Paediatr** 1997 May;86(5):474–8

Practical methods to improve transfusion safety by using novel blood unit and patient identification systems. Wenz B, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S12–6 (26 ref.)

Are coagulation studies on blood sampled from arterial lines valid? Heap MJ, et al. **Anaesthesia** 1997 Jul;52(7):640–5

The effect of storage on Guthrie cards: implications for deoxyribonucleic acid amplification. Makowski GS, et al. **Ann Clin Lab Sci** 1996 Sep-Oct;26(5):458–69

Haemoglobin values in venous and skin puncture blood [letter; comment] Hinchliffe RF, et al. **Arch Dis Child** 1996 Aug;75(2):170–1. Comment on: Arch Dis Child 1996 Jan;74(1):36–9.

Capillary blood sampling: should the heel be warmed? [letter; comment] Dunn PM. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F143–4. Comment on: Arch Dis Child Fetal Neonatal Ed 1996 Mar;74(2):F139–40.

Anonymous HIV testing using home collection and telemedicine counseling. A multicenter evaluation [see comments] Frank AP, et al. **Arch Intern Med** 1997 Feb 10;157(3):309–14. Comment in: Arch Intern Med 1997 Feb 10;157(3):261–2.

Home access HIV testing. What took so long? [editorial; comment] Stryker J, et al. **Arch Intern Med** 1997 Feb 10; 157(3):261–2. Comment on: Arch Intern Med 1997 Feb 10;157(3):309–14.

An erbium:YAG laser to obtain capillary blood samples without a needle for point-of-care laboratory testing. Fonseca V, et al. **Arch Pathol Lab Med** 1997 Jul; 121(7):685–8

Chemistry specimen acceptability: a College of American Pathologists Q-Probes study of 453 laboratories. Jones BA, et al. **Arch Pathol Lab Med** 1997 Jan;121(1):19–26

Preliminary investigation of the use of dried-blood spots for the assessment of in utero exposure to environmental

pollutants. Burse VW, et al. **Biochem Mol Med** 1997 Aug; 61(2):236–9

An evaluation of the use of dried blood spots from newborn screening for monitoring the prevalence of cocaine use among childbearing women. Henderson LO, et al. **Biochem Mol Med** 1997 Aug;61(2):143–51

Collection of peripheral blood stem cells following administration of paclitaxel, cyclophosphamide, and filgrastim in patients with breast and ovarian cancer. Weaver CH, et al. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):83–90

Improvement of virus safety of a S/D-treated factor VIII concentrate by additional dry heat treatment at 100 degrees C. Dichtelmüller H, et al. **Biologicals** 1996 Jun;24(2):125–30

Blood on filter paper as a readily available source of bcr-abl rearranged mRNA [letter] Suttorp M, et al. **Blood** 1997 Aug 15;90(4):1713–5

Percentage of reversibly and irreversibly sickled cells are altered by the method of blood drawing and storage conditions. Asakura T, et al. **Blood Cells Mol Dis** 1996; 22(3):297–306

Umbilical cord blood collection and separation for haematopoietic progenitor cell banking. Ademokun JA, et al. **Bone Marrow Transplant** 1997 May;19(10):1023–8

Profound hypothermia [letter; comment] Ritchie DA. **Br J Hosp Med** 1996 Jul 10–Aug 20;56(2–3):112. Comment on: Br J Hosp Med 1995 Sep 6–19;54(5):215–20.

Use of thrombin inhibitors ex vivo allows critical care clinical chemistry and hematology testing on common specimens. Lyon AW, et al. **Clin Biochem** 1997 Mar;30(2):121–7

Handling of blood samples for determination of thalidomide [letter; comment] Eriksson T, et al. **Clin Chem** 1997 Jun; 43(6 Pt 1):1094–6. Comment on: Clin Chem 1995 Aug;41(8 Pt 1):1199.

Role of specimen collection in preanalytical variation of metalloproteinases and their inhibitors in blood. Fung K, et al. **Clin Chem** 1996 Dec;42(12):2043–5

What kind of specimen should be selected for determining tissue inhibitor of metalloproteinase-1 (TIMP-1) in blood? [letter] Jung K, et al. **Clin Chim Acta** 1996 Oct 15; 254(1):97–100

Desferrioxamine infusion due to heparin interference with iron assay. A paediatric problem [letter] Reynolds T, et al. **Clin Chim Acta** 1997 May 28;261(2):191–3

Metabolic screening via heel stick versus umbilical arterial catheter—a comparison. Vohra K, et al. **Clin Pediatr (Phila)** 1996 Jun;35(6):333–4

Response: Lessons from two linked clusters of acute hepatitis B in cardiothoracic surgery patients [letter; comment] Drabu YJ, et al. **Commun Dis Rep CDR Rev** 1996 Nov 8;6(12):R178. Comment on: Commun Dis Rep CDR Rev 1996 Aug 16;6(9):R119–25.

HbA1c assay on capillary blood sample collected at home: a reliable method [letter] Bognetti ER, et al. **Diabetes Care** 1996 Nov;19(11):1307–8

Effect of different storage temperatures, sample collection procedures and immunoassay methods on osteocalcin measurement. Noonan K, et al. **Eur J Clin Chem Clin Biochem** 1996 Oct;34(10):841–4

Effects of four different methods of sampling arterial blood and storage time on gas tensions and shunt calculation in the 100% oxygen test. Smeenk FW, et al. **Eur Respir J** 1997 Apr;10(4):910–3

Percutaneous umbilical blood sampling: indication changes and procedure loss rate in a nine years' experience. Buscaglia M, et al. **Fetal Diagn Ther** 1996 Mar–Apr; 11(2):106–13

Determination of the origin of single nucleated cells in maternal circulation by means of random PCR and a set of length polymorphisms. von Eggeling F, et al. **Hum Genet** 1997 Feb;99(2):266–70

Increasing yields from blood cultures. Jain P. **Indian Pediatr** 1996 Nov;33(11):974–5

Blood collection on filter paper: a practical approach to sample collection for studies of perinatal HIV transmission. Biggar RJ, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Apr 1;14(4):368–73

Dilution of blood collected for medicolegal alcohol analysis by intravenous fluids. Riley D, et al. **J Anal Toxicol** 1996 Sep;20(5):330–1

Isolation of Bartonella (Rochalimaea) henselae: effects of methods of blood collection and handling. Brenner SA, et al. **J Clin Microbiol** 1997 Mar;35(3):544–7

Doing it right the first time: quality improvement and the contaminant blood culture. Weinbaum FI, et al. **J Clin Microbiol** 1997 Mar;35(3):563–5

Validity of using slide positivity rate (SPR) in identification of high risk malarious segments in rural areas. Joshi PL, et al. **J Commun Dis** 1997 Mar;29(1):41–5

The novel use of vascular access ports for intravenous self-administration and blood withdrawal studies in squirrel monkeys. Kinsora JJ Jr, et al. **J Neurosci Methods** 1997 Jul 18;75(1):59–68

Measurement of insulin pulsatility by sampling directly from the portal vein: a surgical model for placement of long-term prehepatic vascular sampling catheters. Vore SJ, et al. **Lab Anim Sci** 1996 Apr;46(2):202–5

Autologous peripheral blood stem cells: collection and processing. Hansson M, et al. **Med Oncol** 1996 Jun; 13(2):71–9 (50 ref.)

Reliability of finger stick capillary blood for the lymphocyte micronucleus assay. Lee TK, et al. **Mutagenesis** 1997 Mar; 12(2):79–81

Intraosseous and central venous blood acid-base relationship during cardiopulmonary resuscitation. Kissoon N, et al. **Pediatr Emerg Care** 1997 Aug;13(4):250–3

Repeated blood collection in the laboratory mouse by tail incision--modification of an old technique. Dürschlag M, et al. **Physiol Behav** 1996 Dec;60(6):1565–8

Multicenter evaluation of a patient-administered test for blood cholesterol measurement. McNamara JR, et al. **Prev Med** 1996 Sep–Oct;25(5):583–92

Determination of glucose levels using dried filter paper blood spots: new perspective in home monitoring. Ward LS, et al. **Rev Paul Med** 1996 Jan–Feb;114(1):1100–3

In vivo modelling of coagulation factor concentrate thrombogenicity [letter] MacGregor I, et al. **Thromb Haemost** 1997 Feb;77(2):405–6

Is platelet phospholipid-dependent thrombin generation altered by acute myocardial infarction or aspirin? [see comments] Rota S, et al. **Thromb Res** 1996 Aug 15; 83(4):329–38. Comment in: Thromb Res 1997 Feb 15;85(4):367–8.

Comparison of in vivo red cell survival of donations collected by Haemonetics MCS versus conventional collection. Regan F, et al. **Transfus Med** 1997 Mar;7(1):25–8

Policies and procedures for the establishment of an allogeneic blood stem cell collection programme. Stroncek D, et al. **Transfus Med** 1997 Jun;7(2):77–87 (32 ref.)

Comparison of two blood cell separators in collecting peripheral blood stem cell components. Stroncek DF, et al. **Transfus Med** 1997 Jun;7(2):95–9

Percutaneous blood salvage prior to auto-transfusion [letter] Dyke T, et al. **Trop Doct** 1997 Jul;27(3):189

Effect of whole blood storage on factor VIII recovery in fresh frozen plasma and cryoprecipitate. Allersma DP, et al. **Vox Sang** 1996;71(3):150–4

Citrate-dependent auto-antibody causing error in blood grouping. Joshi SR. **Vox Sang** 1997;72(4):229–32

[Blood chemical analysis. A. Effects of sample collection and subsequent processing on the test results--determination of blood ammonia level by direct deproteinization colorimetry] Doi M, et al. **Rinsho Byori** 1996 Nov;Suppl 103:156–61 **(Jpn)**

[General hematological tests--factors responsible for errors in sampling for general hematological tests and their prevention] Kuwajima M. **Rinsho Byori** 1996 Nov;Suppl 103:115–22 **(Jpn)**

[Blood chemical analysis. C. Key points in sampling for ionized Ca determination] Nakagiri I, et al. **Rinsho Byori** 1996 Nov;Suppl 103:169–74 **(Jpn)**

[Effects of anticoagulants used at blood specimen collection on clinical test results] Narayanan S. **Rinsho Byori** 1996 Nov;Suppl 103:73–91 **(Jpn)**

[From sample collection to testing. F. Blood specimen collection from newborn infants] Nishida H. **Rinsho Byori** 1996 Nov;Suppl 103:44–7 **(Jpn)**

[Bacteriological tests] Okada J. **Rinsho Byori** 1996 Nov;Suppl 103:227–34 **(Jpn)**

[TDM and sampling] Saionji K. **Rinsho Byori** 1996 Nov; Suppl 103:271–8 **(Jpn)**

[Immune serum tests. Sampling for complement tests--determination of serum complement hemolytic activity (CH50) and problems associated with handling of samples] Yoshida H, et al. **Rinsho Byori** 1996 Nov;Suppl 103:221–6 **(Jpn)**

PSYCHOLOGY

The use of verbal expectancy in reducing pain associated with arteriotomies. Austan F, et al. **Am J Clin Hypn** 1997 Jan;39(3):182–6

Parents' and children's reactions to taking blood in a nutrition survey. Davies PS, et al. **Arch Dis Child** 1996 Oct; 75(4):309–13

Stress and blood donation: effects of music and previous donation experience. Ferguson E, et al. **Br J Psychol** 1997 May;88 (Pt 2):277–94

STANDARDS

Standards for PBSC mobilisation and collection. Linch DC, et al. **Ann Oncol** 1996;7 Suppl 2:9–10 (11 ref.)

Guidelines for the retention, storage, and use of residual dried blood spot samples after newborn screening analysis: statement of the Council of Regional Networks for Genetic Services. Therrell BL, et al. **Biochem Mol Med** 1996 Apr; 57(2):116–24

Human immunodeficiency virus (HIV) RNA quantitation using the Amplicor HIV-1 Monitor test: not all yellow-top tubes are suitable for blood collection [letter] Griffith BP, et al. **J Clin Microbiol** 1997 Apr;35(4):1040

Sample collection guidelines for trace elements in blood and urine. IUPAC Commission of Toxicology. Cornelis R, et al. **J Trace Elem Med Biol** 1996 Jun;10(2):103–27

A formula for the probability of discordant classification in method comparison studies. Matthews JN. **Stat Med** 1997 Mar 30;16(6):705–10

The ethics of multiple blood sampling in children for research [editorial; comment] Loebstein R, et al. **Ther Drug Monit** 1997 Jun;19(3):251. Comment on: Ther Drug Monit 1997 Jun;19(3):277–80.

[The quantitative regional cerebral blood flow measurement with autoradiography method using 123I-IMP SPECT: evaluation of arterialized venous blood sampling as a substitute for arterial blood sampling] Ohnishi T, et al. **Kaku Igaku** 1996 Oct;33(10):1105–9 (Eng. Abstr.) **(Jpn)**

TRENDS

PCDD/PCDFs in humans, follow-up of background data for Germany, 1994. Papke O, et al. **Chemosphere** 1996 Feb; 32(3):575–82

VETERINARY

Effects of serum separation tubes on serum benzodiazepine and phenobarbital concentrations in clinically normal and epileptic dogs. Boothe DM, et al. **Am J Vet Res** 1996 Sep; 57(9):1299–303

Evaluation of chromogenic substrate assays for fibrinolytic analytes in dogs. Lanevschi A, et al. **Am J Vet Res** 1996 Aug;57(8):1124–30

Paradoxical increases of circulating nonesterified fatty acids in somatotropin treated cattle undergoing mild disturbances. Boisclair YR, et al. **Domest Anim Endocrinol** 1997 Jul;14(4):251–62

Effect of capillary tube sealants on lead content of avian blood. Plumlee KH, et al. **J Vet Diagn Invest** 1996 Jul; 8(3):392–3

Blood sampled in rats from right ventricle may not always be truly representative of a mixed venous sample. Guitart R, et al. **Lab Anim** 1996 Jul;30(3):273–8

Orbital bleeding in rats while under diethylether anaesthesia does not influence telemetrically determined heart rate, body temperature, locomotor and eating activity when compared with anaesthesia alone. Van Herck H, et al. **Lab Anim** 1997 Jul;31(3):271–8

Flow cytometry analysis of pan-T-, CD4(+)-, CD8(+)-, and pan-B lymphocytes in blood samples obtained from healthy, nontreated rats: comparison of lymphocyte subpopulations in blood samples obtained from rat heart and tail. Jensen JE, et al. **Lab Anim Sci** 1996 Oct; 46(5):579–81

Tail sectioning: a rapid and simple method for repeated blood sampling of the rat for corticosterone determination. Liu JY, et al. **Lab Anim Sci** 1996 Apr;46(2):243–5

Blood sampling technique for measurement of plasma arginine vasopressin concentration in conscious and unrestrained rats. Suzuki K, et al. **Lab Anim Sci** 1997 Apr; 47(2):190–3

Preferential sites for arterial blood sampling in cattle. Muylle S, et al. **Vet Rec** 1996 Jul 27;139(4):86–8

BLOOD STAINS

Likelihood ratios for mixed stains when the number of donors cannot be agreed. Brenner CH, et al. **Int J Legal Med** 1996; 109(4):218–9

Backspatter from experimental close-range shots to the head. II. Microbackspatter and the morphology of bloodstains. Karger B, et al. **Int J Legal Med** 1997;110(1):27–30

Backspatter from experimental close-range shots to the head. I. Macrobackspatter. Karger B, et al. **Int J Legal Med** 1996; 109(2):66–74

The effects of fingermark enhancement light sources on subsequent PCR-STR DNA analysis of fresh bloodstains. Andersen J, et al. **J Forensic Sci** 1997 Mar;42(2):303–6

The estimation of age of bloodstains by HPLC analysis. Andrasko J. **J Forensic Sci** 1997 Jul;42(4):601–7

An unusual bloodstain case. Burnett BR, et al. **J Forensic Sci** 1997 May;42(3):519–23

A simplified amplification procedure for two regions of the glycosyl transferase (ABO blood group) gene. Herrin G Jr. **J Forensic Sci** 1996 Jan;41(1):138–41

A unique and sensitive ELISA technique for typing ABH antigens in bloodstains using UEA-I lectin--the removal of detergent with a Sephadex G-25 mini-column improves sensitivity [retracted by Kimura K, Matsubara K. In: J Forensic Sci 1996 Nov;41(6):1085] Matsubara K, et al. **J Forensic Sci** 1996 Jan;41(1):35–9

Sex determination of dried blood stains using the polymerase chain reaction (PCR) with homologous X-Y primers of the zinc finger protein gene. Stacks B, et al. **J Forensic Sci** 1996 Mar;41(2):287–90

Identification of menstrual blood by the simultaneous determination of FDP-D dimer and myoglobin contents. Miyaishi S, et al. **Nippon Hoigaku Zasshi** 1996 Dec; 50(6):400–3

Glyoxalase I (GLO I, EC 4.4.1.5) polymorphism in hemolysates and bloodstains. Koc E, et al. **Rocz Akad Med Bialymst** 1996;41(2):405–11

Esterase D (ESD, EC 3.1.1.1) polymorphism in hemolysates and bloodstains. I. Usefulness of selected methods of ESD phenotyping. Pepiński W, et al. **Rocz Akad Med Bialymst** 1995;40(2):293–300

Esterase D (ESD EC 3.1.1.1) polymorphism in hemolysates and bloodstains. II. Comparison of ESD stability in dried bloodstains in relation to the temperature of storage and the type and character of substrate. Pepiński W, et al. **Rocz Akad Med Bialymst** 1995;40(2):301–7

Polymorphism of erythrocyte acid phosphatase system (ACP, EC 3.1.3.2) in hemolysates and bloodstains. II. comparison of ACP stability in dried bloodstains in relation to the temperature of storage and the type and character of substrate. Skawrońska M, et al. **Rocz Akad Med Bialymst** 1995;40(2):286–92

Polymorphism of erythrocyte acid phosphatase system (ACP, EC 3.1.3.2) in hemolysates and bloodstains. I. Evaluation of selected methods of ACP phenotyping. Skawrońska M, et al. **Rocz Akad Med Bialymst** 1995;40(2):276–85

[Establishing the presence of bile in stains] Fadeeva AA, et al. **Sud Med Ekspert** 1997 Jul–Sep;40(3):14–5 (Eng. Abstr.) **(Rus)**

[The determination of the presence of blood in stains on material evidence by using the HemoFAN diagnostic test from the Lachema firm] Gurtovaia SV, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):29–30 **(Rus)**

BLOOD SUBSTITUTES

see related

PLASMA SUBSTITUTES

Use of a PFC–based oxygen carrier to lower the transfusion trigger in a canine model of hemodilution and surgical blood loss. Batra S, et al. **Adv Exp Med Biol** 1997; 411:377–81

Effect of perfluorochemical emulsion on hemorheology and shear induced blood trauma. Possible mechanisms and future applications. Kameneva MV, et al. **Adv Exp Med Biol** 1997;411:383–90

Use of oxygen–15 to measure oxygen–carrying capacity of blood substitutes in vivo. Phillips WT, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2492–9

Flow–independent heterogeneity of brain capillary plasma perfusion after blood exchange with a Newtonian fluid. Vogel J, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1833–7

Whitaker Lecture 1996: microcirculation, biomedical engineering, and artificial blood. Intaglietta M. **Ann Biomed Eng** 1997 Jul–Aug;25(4):593–603

Beneficial effects of fluosol–polyethylene glycol cardioplegia on cold, preserved rabbit heart. Bhayana JN, et al. **Ann Thorac Surg** 1997 Feb;63(2):459–64

VI International Symposium on Blood Substitutes. Montreal, Quebec, Canada, August 5–7, 1996. Abstracts. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jul; 24(4):ix–xxiv, 295–464

Description of a project for the production and evaluation of oxygen–carrying hemosubstitutes. Briceño JC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):473–9

A starch–hemoglobin resuscitative compound. Cerny LC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Mar; 24(2):153–60

Use of donor blood in the surgical setting potentials for application of blood substitutes. Greenburg AG, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):25–9 (7 ref.)

Decreased agglutinability of methoxy–polyethylene glycol attached red blood cells: significance as a blood substitute. Jeong ST, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):503–11

Perfluorochemicals and cell biotechnology. Lowe KC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):261–74 (47 ref.)

The impact of red cell substitutes on the blood service in Japan. Sekiguchi S. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):53–60

Measurement of percent oxyhemoglobin by optical densitometry in perfluorocarbon supplemented blood. Murrah CP, et al. **ASAIO J** 1996 Sep–Oct;42(5):M769–73

Surface modification of hemoglobin vesicles with poly(ethylene glycol) and effects on aggregation, viscosity, and blood flow during 90% exchange transfusion in anesthetized rats. Sakai H, et al. **Bioconjug Chem** 1997 Jan–Feb;8(1):23–30

A blood analog for laser–induced photochemical anemometry. Sharp MK, et al. **Biorheology** 1996 Nov–Dec; 33(6):471–6

Mechanism of the contractile effect of diaspirin–cross–linked hemoglobin in rat isolated aorta strip denuded of endothelium as revealed using an oil–immersion procedure. Rioux F, et al. **Can J Physiol Pharmacol** 1996 Oct; 74(10):1171–9

Evaluation of HemogloBind for removal of o–raffinose cross–linked hemoglobin (Hemolink) from serum. Balion CM, et al. **Clin Chem** 1997 Sep;43(9):1796–7

Effect of hemoglobin– and Perflubron–based oxygen carriers on common clinical laboratory tests. Ma Z, et al. **Clin Chem** 1997 Sep;43(9):1732–7

Effect of Hemopure on prothrombin time and activated partial thromboplastin time on seven coagulation analyzers. Moreira PL, et al. **Clin Chem** 1997 Sep;43(9):1792

Effect of Hemopure on the performance of Ektachem and Hitachi clinical analyzers. Moreira PL, et al. **Clin Chem** 1997 Sep;43(9):1790–1

Effect of hemoglobin–based oxygen carrier–201 on common chemistry laboratory procedures. Sarkozi L, et al. **Clin Chem** 1997 Sep;43(9):1792–4

Blood substitutes: evolution and future applications. Scott MG, et al. **Clin Chem** 1997 Sep;43(9):1724–31 (81 ref.)

Nitric oxide binding and the adverse effects of cell–free hemoglobins: what makes us different from earthworms [editorial; comment] Loscalzo J. **J Lab Clin Med** 1997 Jun; 129(6):580–3 (30 ref.). Comment on: J Lab Clin Med 1997 Jun;129(6):603–10.

Progress on blood substitutes [letter] Winslow RM. **Nat Med** 1997 May;3(5):474

New Jersey researchers testing unique blood substitute [news] **Oncology (Huntingt)** 1995 Jun;9(6):486, 489

Perfluorochemical respiratory gas carriers: applications in medicine and biotechnology. Lowe KC. **Sci Prog** 1997;80 (Pt 2):169–93 (89 ref.)

Blood substitutes. Hess JR. **Semin Hematol** 1996 Oct; 33(4):369–78 (76 ref.)

Blood substitutes for transfusion. Williams MJ. **Tech Urol** 1996 Winter;2(4):179–86 (45 ref.)

Examples of chemical modification and recombinant DNA approaches with hemoglobin. Manning JM. **Transfus Clin Biol** 1996;3(2):109–11

Resuscitation and the limited utility of the present generation of blood substitutes. Hess JR, et al. **Transfus Med Rev** 1996 Oct;10(4):276–85 (68 ref.)

Frozen platelets and platelet substitutes in transfusion medicine. Alving BM, et al. **Transfusion** 1997 Aug; 37(8):866–76

Complement activation in vitro by the red cell substitute, liposome–encapsulated hemoglobin: mechanism of activation and inhibition by soluble complement receptor type 1. Szebeni J, et al. **Transfusion** 1997 Feb;37(2):150–9

A thought–provoking insight into the current and future use of recombinant technology as an alternative to human blood [letter] Hariawala MD, et al. **World J Surg** 1997 Jul–Aug;21(6):667

[Contributions and prospects of hemoglobin derivatives] Remy B, et al. **Schweiz Med Wochenschr** 1997 Jun 21; 127(25):1088–96 (57 ref.) (Eng. Abstr.) **(Fre)**

[Reality and clinical application of albumin preparation] Kikuchi S, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):818–23 (5 ref.) **(Jpn)**

[Present status and future of blood management in Japan] Sekiguchi S, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):862–70 (9 ref.) **(Jpn)**

[Platelet substitutes—development and possible clinical applications] Murata M. **Rinsho Ketsueki** 1996 Dec; 37(12):1353–61 (37 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Submicron polymer membrane hemoglobin nanocapsules as potential blood substitutes: preparation and characterization. Yu WP, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May; 24(3):169–83

Isovolemic hemodilution with a bovine hemoglobin–based oxygen carrier: effects on hemodynamics and oxygen transport in comparison with a nonoxygen–carrying volume substitute [see comments] Krieter H, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):3–9. Comment in: J Cardiothorac Vasc Anesth 1997 Feb;11(1):1–2.

Hemoglobin–based oxygen carriers: problems and promise [editorial; comment] Tremper KK. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):1–2. Comment on: J Cardiothorac Vasc Anesth 1997 Feb;11(1):3–9. Comment on: J Cardiothorac Vasc Anesth 1997 Feb;11(1):10–2.

[Perioperative management of a patient with severe anemia caused by rare Jr (a–) blood] Ehata T, et al. **Masui** 1997 Apr;46(4):525–30 (Eng. Abstr.) **(Jpn)**

[The biomicroscopic evaluation of the blood microcirculatory bed in the mesentery of the small intestine during experimental perftoran infusion under normovolemia] Golubev AM, et al. **Morfologiia** 1996; 109(3):36–40 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Protein engineering strategies for designing more stable hemoglobin–based blood substitutes. Olson JS, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):227–41 (29 ref.)

Advanced fluorocarbon–based systems for oxygen and drug delivery, and diagnosis. Riess JG, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):43–52 (36 ref.)

Construction of artificial methemoglobin reduction systems in Hb vesicles. Takeoka S, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):31–41

CHEMISTRY

Recent and future developments in modified hemoglobin and microencapsulated hemoglobin as red blood cell substitutes. Chang TM. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):1–24 (86 ref.)

Viscosity measurements for LEH suspended in different plasma expanders. Chung TW, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):393–406

Detection of residual polyethylene glycol derivatives in pyridoxylated–hemoglobin–polyoxyethylene conjugate. Miles PJ, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):315–26

Structures of a hemoglobin–based blood substitute: insights into the function of allosteric proteins. Kroeger KS, et al. **Structure** 1997 Feb 15;5(2):227–37 (57 ref.)

ECONOMICS

Blood substitutes: science or business? [editorial; comment] Winslow RM. **J Lab Clin Med** 1996 Aug;128(2):126–7. Comment on: J Lab Clin Med 1996 Aug;128(2):146–53.

METABOLISM

The oxygen carrying capability of hemoglobin vesicles evaluated in rat exchange transfusion models. Kobayashi K, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul;25(4):357–66

Facilitated oxygen transport with modified and encapsulated hemoglobins across non–flowing solution membrane. Nishide H, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):335–46

Development of neo red cells (NRC) with the enzymatic reduction system of methemoglobin. Ogata Y, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):417–27

Construction of artificial methemoglobin reduction systems in Hb vesicles. Takeoka S, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):31–41

Tris(3,5–dibromosalicyl) tricarballylate crosslinked hemoglobin: functional evaluation. Zheng Y, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):587–98

Modeling of oxygen uptake in perfluorocarbon emulsions. Some comparisons with uptake by blood. Shah N, et al. **ASAIO J** 1996 May–Jun;42(3):181–9

A hemoglobin–based blood substitute: transplanting a novel allosteric effect of crocodile Hb. Komiyama N, et al. **Biol Chem** 1996 Sep;377(9):543–8 (26 ref.)

PHARMACOKINETICS

Kinetic aspects of polyelectrolyte adsorption: adsorption of chitin derivatives onto liposomes as a model system. Mobed M, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul;25(4):367–77

Sustained endothelial dependent dilation in pial arterioles after crosslinked hemoglobin transfusion. Ulatowski JA, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar;25(1–2):115–20

PHARMACOLOGY

Longitudinal studies on the interaction of perfluorochemicals with liver cytochromes P–450 by means of testing the rate of detoxification of pentobarbital. Lutz J, et al. **Adv Exp Med Biol** 1997;411:391–4

Effects of perflubron emulsion and 100% oxygen breathing on local tissue PO2 in brain cortex of unanaesthetized rabbits. van Rossem K, et al. **Adv Exp Med Biol** 1997; 411:403–9

The effects of cross–linked hemoglobin on regional vascular conductance in dogs. Dietz NM, et al. **Anesth Analg** 1997 Aug;85(2):265–73

Dose response effect of diaspirin crosslinked hemoglobin (DCLHb) on systemic hemodynamics and regional blood circulation in rats. Barve A, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):75–84

Effect of subarachnoid administration of alpha–alpha diaspirin crosslinked hemoglobin on cerebral blood flow in rats. Cole DJ, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):95–104

Alpha–alpha diaspirin crosslinked hemoglobin, nitric oxide, and cerebral ischemic injury in rats. Cole DJ, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):141–52

Effects of a novel perfluorocarbon emulsion on neutrophil chemiluminescence in human whole blood in vitro. Edwards CM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):255–60

Effects of partial blood replacement with pyridoxalated hemoglobin polyoxyethylene conjugate solution on transient cerebral ischemia in gerbil. Hanzawa K, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):105–14

Hypertonic acetate–alpha alpha hemoglobin for small volume resuscitation of hemorrhagic shock. Poli de Figueiredo LF, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar;25(1–2):61–73

Effect of diaspirin crosslinked hemoglobin on systemic and regional blood circulation in pregnant rats. Sen AP, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):275–88

Enhancement of erythrocyte sedimentation rate by polymerized hemoglobin. Tsai SP, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):513–23

Effect of liposome encapsulated hemoglobin "neo red cells" on severe hemorrhagic shock. Usuba A, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):379–92

Changes in brain pH, PO2, PCO2, cerebral blood flow, and blood gases induced by a hyperosmolar oxyreplete hemosubstitute during cardiopulmonary bypass. Briceño JC, et al. **ASAIO J** 1997 Jan–Feb;43(1):13–8

BLOOD SUBSTITUTES

An improved blood substitute. In vivo evaluation of its hemodynamic effects. Simoni J, et al. **ASAIO J** 1996 Sep–Oct;42(5):M773–82

Perfluorocarbon emulsion prevents eicosanoid release in skeletal muscle ischemia and reperfusion. Gennaro M, et al. **Cardiovasc Surg** 1996 Jun;4(3):399–404

In vitro effects of a novel hemoglobin–based oxygen carrier on routine chemistry, therapeutic drug, coagulation, hematology, and blood bank assays. Callas DD, et al. **Clin Chem** 1997 Sep;43(9):1744–8

Oxalated pyridoxalated hemoglobin polyoxyethylene conjugate normalizes the hyperdynamic circulation in septic sheep. Bone HG, et al. **Crit Care Med** 1997 Jun; 25(6):1010–8

Liposome–encapsulated hemoglobin modulates lipopolysaccharide–induced tumor necrosis factor–alpha production in mice. Rudolph AS, et al. **Crit Care Med** 1997 Mar;25(3):460–8

Postischemic synthesis of high energy phosphates in isolated porcine hearts during reperfusion with 11 or 25 degrees C hypothermic perfluorocarbon emulsion FC 43. A 31P magnetic resonance spectroscopy study. Scheule AM, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):746–50

Comparison of synthetic serum substitute and fetal cord serum as media supplements for in vitro fertilization: a prospective, randomized study [see comments] Dugan KJ, et al. **Fertil Steril** 1997 Jan;67(1):166–8. Comment in: Fertil Steril 1997 Aug;68(2):385–6.

Crosslinked hemoglobin inhibits endothelium–dependent relaxations in isolated canine arteries. Katušić ZS, et al. **Gen Pharmacol** 1996 Mar;27(2):239–44

The effects of a blood–salvaging device on blood containing a hemoglobin–based oxygen carrier, HBOC–201 [see comments] Wahr JA, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):10–2. Comment in: J Cardiothorac Vasc Anesth 1997 Feb;11(1):1–2.

Hypervolemic–hemodilution during cerebral ischemia in rats: effect of diaspirin cross–linked hemoglobin (DCLHb) on neurologic outcome and infarct volume. Cole DJ, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):44–50

Influence of moderate haemodilution with fluosol or normal saline on carbaryl disposition in Sprague–Dawley rats. Shrewsbury RP, et al. **J Pharm Pharmacol** 1997 Mar; 49(3):236–40

Effect of liposome–encapsulated hemoglobin on triglyceride, total cholesterol, low–density lipoprotein, and high–density lipoprotein cholesterol measurements. Abdullah F, et al. **Lipids** 1997 Apr;32(4):377–81

Complement activation in vitro by the red cell substitute, liposome–encapsulated hemoglobin: mechanism of activation and inhibition by soluble complement receptor type 1. Szebeni J, et al. **Transfusion** 1997 Feb;37(2):150–9

[Aspects of perfluoro–organic hemo–protection] Shevchenko IuL, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):17–9 (Eng. Abstr.) **(Rus)**

[Hemoprotective effect of perfluorodecalin] Skorik VI, et al. **Biull Eksp Biol Med** 1996 May;121(5):512–5 **(Rus)**

[Ultroser–G and 5–azacytidine prolong the development of parthenogenetic mouse embryos] Penkov LI, et al. **Ontogenez** 1997 Mar–Apr;28(2):138–43 (Eng. Abstr.) **(Rus)**

STANDARDS

Blood products have future despite recent setbacks [news] Brower V. **Nat Biotechnol** 1997 Jun;15(6):507

A graded scale for assessment of safety of blood substitutes. Przybelski RJ, et al. **Transfusion** 1997 Jul;37(7):749–51

SUPPLY & DISTRIBUTION

An urgent need to include blood substitute as a priority area in any national policies on blood supply [editorial] Chang TM. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):vii–ix

[Threatened future of plasma products. Who is responsible? (see comments)] Berntorp E, et al. **Lakartidningen** 1996 Oct 2;93(40):3443–4. Comment in: Lakartidningen 1997 Feb 5;94(6):406. **(Swe)**

THERAPEUTIC USE

Effect of blood substitute, recombinant hemoglobin, on in vivo hematopoietic recovery from AZT toxicity. Moqattash S, et al. **Acta Haematol** 1997;98(2):76–82

Supporting tissue oxygenation during acute surgical bleeding using a perfluorochemical–based oxygen carrier. Keipert PE, et al. **Adv Exp Med Biol** 1996;388:603–9

Effects of a hemoglobin–based oxygen carrier (HBOC–201) on hemodynamics and oxygen transport in patients undergoing preoperative hemodilution for elective abdominal aortic surgery. Kasper SM, et al. **Anesth Analg** 1996 Nov;83(5):921–7

Increased antioxidant capacity, suppression of free radical damage and erythrocyte aggrerability after combined application of alpha–tocopherol and FC–43 perfluorocarbon emulsion in early postburn period in rats. Bekyarova G, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):629–41

Study of therapeutic efficiency of new blood substitutes in experimental hemorrhagic shock. Kochetygov NI, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):685–91

Resuscitation with increasing doses of diaspirin crosslinked hemoglobin in swine. Marchand G, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):469–87

Treatment of massive hemorrhage with liposome encapsulated human hemoglobin (NRC) and hydroxyethyl starch (HES) in beagles. Takaori M, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):643–53

Resuscitation of pulmonary contusion: effects of a red cell substitute. Cohn SM, et al. **Crit Care Med** 1997 Mar; 25(3):484–91

Dose–response relationship between aortic infusions of polymerized bovine hemoglobin and return of circulation in a canine model of ventricular fibrillation and advanced cardiac life support. Paradis NA. **Crit Care Med** 1997 Mar; 25(3):476–83

Analysis of amount, expenditures and indications of drug and blood product prescriptions at surgical intensive care units. Tepper J, et al. **Int J Clin Pharmacol Ther** 1995 Dec; 33(12):658–63

A phase I/II study of polymerized bovine hemoglobin in adult patients with sickle cell disease not in crisis at the time of study. Gonzalez P, et al. **J Investig Med** 1997 Jun; 45(5):258–64

Is blood obsolete? Cohn SM. **J Trauma** 1997 Apr;42(4):730–2 (12 ref.)

Resuscitation from hemorrhagic shock with diaspirin cross–linked hemoglobin, blood, or hetastarch. DeAngeles DA, et al. **J Trauma** 1997 Mar;42(3):406–12; discussion 412–4

Use of recombinant hemoglobin solution in reversing lethal hemorrhagic hypovolemic oxygen debt shock. Siegel JH, et al. **J Trauma** 1997 Feb;42(2):199–212

Clinical development of human polymerized hemoglobin as a blood substitute. Gould SA, et al. **World J Surg** 1996 Nov–Dec;20(9):1200–7 (36 ref.)

[Extrapulmonary fluorocarbon oxygenation] Moroz VV, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):20–3 **(Rus)**

[The use of perftoran in clinical medicine] Moroz VV, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):12–7 **(Rus)**

[Changes in clinico–immunological indices of experimental allergic encephalomyelitis after treatment with perftoran] Zhitnukhin IuL, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):315–8 **(Rus)**

[Results of the use of perftoran for anti–ischemic protection of renal transplant] Zakharov VV. **Klin Khir** 1997;(1):24–6 (Eng. Abstr.) **(Rus)**

[The effect of the blood corrective agent Lactosorbal on liver functional activity in dogs with a model of severe hemorrhagic shock] Oborin AN, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):152–4 (Eng. Abstr.) **(Rus)**

[The creation of artificial blood and the lessons of physiology for practical medicine] Ivanov KP. **Usp Fiziol Nauk** 1996 Oct–Dec;27(4):133–40 (26 ref.) (Eng. Abstr.) **(Rus)**

[Modezhel' erythrocyte preservative as an experimental and clinical blood substitute] Selivanov EA, et al. **Vestn Khir Im I I Grek** 1996;(1):71–4 (Eng. Abstr.) **(Rus)**

[Current trends in the development of new blood substitutes] Khliabich GN, et al. **Voen Med Zh** 1996 Oct;317(10):55–7 **(Rus)**

TOXICITY

The cytotoxic activities of human hemoglobin and diaspirin crosslinked hemoglobin. Hsia N, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):533–51

The physiological and histopathological response of dogs to exchange transfusion with polyethylene glycol–modified bovine hemoglobin (PEG–Hb). Shum KL, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):655–83

Effects of perfluorochemical–based artificial blood compounds in discordant xenotransplantation. Wada S, et al. **Artif Organs** 1996 Aug;20(8):930–5

Effects of polymerization on the hypertensive action of diaspirin cross–linked hemoglobin in rats [see comments] Abassi Z, et al. **J Lab Clin Med** 1997 Jun;129(6):603–10. Comment in: J Lab Clin Med 1997 Jun;129(6):580–3.

BLOOD SUGAR see **BLOOD GLUCOSE**

BLOOD SUGAR SELF–MONITORING see **BLOOD GLUCOSE SELF–MONITORING**

BLOOD–TESTIS BARRIER

Developmental expression of murine Beta–trace in embryos and adult animals suggests a function in maturation and maintenance of blood–tissue barriers. Hoffmann A, et al. **Dev Dyn** 1996 Nov;207(3):332–43

Regional differentiation of the blood–epididymis barrier in stallion (Equus caballus). López ML, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):353–63

[Ultrastructural changes in the hemato–testicular barrier in the pathogenesis of infertility] Romanenko AM, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):131–7 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Evidence and results obtained with a new trans–epidermal barrier (T.E.B.) drug in the medical treatment of vascular impotence. Curri SB, et al. **Boll Chim Farm** 1996 May; 135(5):316–34 (49 ref.)

BLOOD TESTS see **HEMATOLOGIC TESTS**

BLOOD TRANSFUSION

see related
BLOOD GROUP INCOMPATIBILITY
BLOOD GROUPING AND CROSSMATCHING

The effect of acute normovolemic hemodilution on homologous blood requirements and total estimated red blood cell volume lost. Kahraman S, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):614–7

Avoiding homologous blood and blood products in the perisurgical setting. Gombotz H, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:138–9

Principles of transfusion medicine perioperatively and in intensive care. Höcker P. **Acta Anaesthesiol Scand Suppl** 1996;109:137–8

Massive transfusion––state of the art. Weinstabl C. **Acta Anaesthesiol Scand Suppl** 1996;109:79–80 (6 ref.)

Markers of oxidative stress before and after exchange transfusion for neonatal sepsis. Kokk T, et al. **Acta Paediatr** 1996 Oct;85(10):1244–6

Practical issues when confronting the patient who refuses blood transfusion therapy. Bennett DR, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S23–7 (17 ref.)

Effect of push enteroscopy on transfusion requirements and quality of life in patients with unexplained gastrointestinal bleeding. Vakil N, et al. **Am J Gastroenterol** 1997 Mar; 92(3):425–8

Immunomodulation by blood transfusion: an evolving scientific and clinical challenge. Blumberg N, et al. **Am J Med** 1996 Sep;101(3):299–308 (9 ref.)

New insights into the management of anemia in the surgical patient. Klein HG. **Am J Med** 1996 Aug 26; 101(2A):12S–15S (23 ref.)

Baseline hemoglobin as a predictor of risk of transfusion and response to Epoetin alfa in orthopedic surgery patients. de Andrade JR, et al. **Am J Orthop** 1996 Aug;25(8):533–42

A safety and efficacy comparison study of two dosing regimens of epoetin alfa in patients undergoing major orthopedic surgery. Goldberg MA, et al. **Am J Orthop** 1996 Aug;25(8):544–52

A comparison of blood loss and transfusion requirements in total knee arthroplasty with and without arterial tourniquet. Jarolem KL, et al. **Am J Orthop** 1995 Dec;24(12):906–9

Plasma ANP levels and protein extravasation during graded expansion with equilibrated whole blood. Tucker VL. **Am J Physiol** 1996 Sep;271(3 Pt 2):R601–9

Cerebral O2 transport with hematocrit reduced by cross–linked hemoglobin transfusion. Ulatowski JA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H466–75

Does transfusion practice affect mortality in critically ill patients? Transfusion Requirements in Critical Care (TRICC) Investigators and the Canadian Critical Care Trials Group. Hébert PC, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1618–23

New transfusion strategies. Greenburg AG. **Am J Surg** 1997 Jan;173(1):49–52 (12 ref.)

Preoperative predictors of blood transfusion in liver resection for tumor. Mariette D, et al. **Am J Surg** 1997 Apr; 173(4):275–9

Transfusion for respiratory distress in life–threatening childhood malaria. English M, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):525–30

Combination of blood–saving methods decreases homologous blood requirements in scoliosis surgery. Lisander B, et al. **Anaesth Intensive Care** 1996 Oct;24(5):555–8

Life without hemoglobin [editorial] Zander R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):488–90 **(Eng, Ger)**

Tranexamic acid radically decreases blood loss and transfusions associated with total knee arthroplasty. Hiippala ST, et al. **Anesth Analg** 1997 Apr;84(4):839–44

Continuous small–dose tranexamic acid reduces fibrinolysis but not transfusion requirements during orthotopic liver transplantation. Kaspar M, et al. **Anesth Analg** 1997 Aug; 85(2):281–5

Aspirin does not increase allogeneic blood transfusion in reoperative coronary artery surgery. Tuman KJ, et al. **Anesth Analg** 1996 Dec;83(6):1178–84

Should the transfusion trigger and hemoglobin low critical limit be identical? Lum G. **Ann Clin Lab Sci** 1997 Mar–Apr; 27(2):130–4

Subtyping of human T–lymphotropic virus type I by amplification of long terminal repeat sequences and restriction fragment length polymorphism analysis in carriers with multiple transfusions. Lin MT, et al. **Ann Hematol** 1996 Sep;73(3):127–34

Re: Is blood transfusion necessary in reduction mammaplasty patients? [letter; comment] Altobelli JA. **Ann Plast Surg** 1997 Jan;38(1):85. Comment on: Ann Plast Surg 1996 Jul;37(1):116–8.

Is blood transfusion necessary in reduction mammaplasty patients? [see comments] Cohen J. **Ann Plast Surg** 1996 Jul;37(1):116–8. Comment in: Ann Plast Surg 1996 Dec;37(6):680. Comment in: Ann Plast Surg 1997 Jan;38(1):85.

Blood transfusion requirements in femoral neck fractures

[letter; comment] Williams BT, et al.
Ann R Coll Surg Engl 1996 Sep;78(5):477. Comment on: Ann R Coll Surg Engl 1995 Nov;77(6):453–6.

Reported noncausal effect of blood transfusions on colorectal cancer recurrence [letter; comment] Amato A, et al.
Ann Surg 1997 Jan;225(1):129–30. Comment on: Ann Surg 1994 Dec;220(6):791–7.

Blood transfusions and local tumor recurrence in colorectal cancer: evidence of a noncausal relationship [letter; comment] Dolezal JM, et al. **Ann Surg** 1997 Jan; 225(1):127–8. Comment on: Ann Surg 1994 Dec;220(6):791–7.

Adenosine reduces postbypass transfusion requirements in humans after heart surgery. Mentzer RM Jr, et al.
Ann Surg 1996 Oct;224(4):523–9; discussion 529–30

Hemorrhage and the use of blood products after adult cardiac operations: myths and realities. Bélisle S, et al.
Ann Thorac Surg 1996 Dec;62(6):1908–17 (63 ref.)

Plateletpheresis before redo CABG diminishes excessive blood transfusion [see comments] Christenson JT, et al.
Ann Thorac Surg 1996 Nov;62(5):1373–8; discussion 1378–9 . Comment in: Ann Thorac Surg 1997 Jun;63(6):1828–30.

Reduction in requirements for allogeneic blood products: nonpharmacologic methods. Hardy JF, et al.
Ann Thorac Surg 1996 Dec;62(6):1935–43 (62 ref.)

Reduction in requirements for allogeneic blood products: pharmacologic methods. Janssens M, et al.
Ann Thorac Surg 1996 Dec;62(6):1944–50 (61 ref.)

Predicting transfusion [letter; comment] Rosengart TK, et al. **Ann Thorac Surg** 1996 Dec;62(6):1885–6. Comment on: Ann Thorac Surg 1996 Jan;61(1):8–9. Comment on: Ann Thorac Surg 1996 Jan;61(1):27–32.

Prophylactic drug treatment in the prevention of postoperative bleeding [letter; comment] Tyers GF.
Ann Thorac Surg 1997 Mar;63(3):912. Comment on: Ann Thorac Surg 1994 Nov;58(5):1305–6.

Prognostic influence of blood transfusion on minimal residual disease in resected gastric cancer patients. Heiss MM, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2657–61

Randomised controlled double blind study of role of recombinant erythropoietin in the prevention of chronic lung disease. Griffiths G, et al.
Arch Dis Child Fetal Neonatal Ed 1997 May;76(3):F190–2

The physiological and histopathological response of dogs to exchange transfusion with polyethylene glycol–modified bovine hemoglobin (PEG–Hb). Shum KL, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 Nov; 24(6):655–83

Hysterectomy, massive transfusion and packing to control haemorrhage from pelvic veins in the course of bilateral oophorectomy. Edwards WR.
Aust N Z J Obstet Gynaecol 1996 Feb;36(1):82–4

Indications for blood transfusion in pregnancy with sickle cell disease. El-Shafei AM, et al.
Aust N Z J Obstet Gynaecol 1995 Nov;35(4):405–8

Transfusion medicine 1995/96. Proceedings of the 28th Congress of the German Society of Transfusion Medicine and Immunohematology. Wien, 17–20 September 1995.
Beitr Infusionsther Transfusionsmed 1996;33:1–268 **(Eng, Ger)**

HCV transmission through blood transfusion: are HCV–RNA titer in donor serum and genotype major determinants of infection outcome? Cardoso MS, et al.
Beitr Infusionsther Transfusionsmed 1996;33:225–30

Novel approaches in blood and marrow transplantation. Report on the 2nd annual scientific meeting of The American Society for Blood and Marrow Transplantation. Joint Special Conference with the American Association for Cancer Research. Jointly sponsored by the College of Physicians and Surgeons of Columbia University. October 2–6, 1996, San Diego, CA.
Biol Blood Marrow Transplant 1996 Oct;2(3):145–72

Alloimmunization to platelets in heavily transfused patients with sickle cell disease. Friedman DF, et al. **Blood** 1996 Oct 15;88(8):3216–22

Cholecystectomy in sickle cell anemia patients: perioperative outcome of 364 cases from the National Preoperative Transfusion Study. Preoperative Transfusion in Sickle Cell Disease Study Group. Haberkern CM, et al. **Blood** 1997 Mar 1;89(5):1533–42

Avoidance of allogeneic blood transfusions by treatment with epoetin beta (recombinant human erythropoietin) in patients undergoing open–heart surgery. Sowade O, et al. **Blood** 1997 Jan 15;89(2):411–8

Benefit of using polymerase chain reaction to test blood donations will be considerable [letter; comment] Barbara J. **BMJ** 1997 Jul 5;315(7099):60. Comment on: BMJ 1997 May 17;314(7092):1437.

Jury is still out on National Blood Service [letter; comment] Bowell PJ. **BMJ** 1996 Nov 30;313(7069):1402. Comment on: BMJ 1996 May 4;312(7039):1114. Comment on: BMJ 1996 Aug 17;313(7054):428.

"Phlebomania Hancocksia": prevalence of a previously undescribed psychomotor disturbance. John LC. **BMJ** 1996 Dec 21–28;313(7072):1620

Direct HIV testing of donated blood is inevitable [news] [see comments] Legge A. **BMJ** 1997 May 17;314(7092):1437. Comment in: BMJ 1997 Jul 5;315(7099):60.

Consent for transfusion [editorial] Williams FG. **BMJ** 1997 Aug 16;315(7105):380–1

A SHOT in the arm for safer blood transfusion [editorial] Williamson LM, et al. **BMJ** 1996 Nov 16;313(7067):1221–2

Use of calcium antagonists and need for perioperative transfusion in older patients with hip fracture: observational study. Zuccalá G, et al. **BMJ** 1997 Mar 1;314(7081):643–4

Successful hematopoietic reconstitution by transplantation of umbilical cord blood cells in a transfusion–dependent child with Diamond–Blackfan anemia. Bonno M, et al.
Bone Marrow Transplant 1997 Jan;19(1):83–5

Transfusion requirements after bone marrow transplantation from HLA–identical siblings: effects of donor–recipient ABO incompatibility. Mehta J, et al.
Bone Marrow Transplant 1996 Jul;18(1):151–6

Flow cytometric method for the routine follow–up of red cell populations after bone marrow transplantation. Hendriks EC, et al. **Br J Haematol** 1997 Apr;97(1):141–5

Hepatitis GB virus C genome in the serum of aplastic anaemia patients receiving frequent blood transfusions [see comments] Moriyama K, et al. **Br J Haematol** 1997 Mar; 96(4):864–7. Comment in: Br J Haematol 1997 Aug;98(2):495.

Chronic transfusion programmes in sickle cell disease: problem or panacea? Serjeant GR. **Br J Haematol** 1997 May;97(2):253–5

Blood transfusion in obstetrics and gynaecology [see comments] Ekeroma AJ, et al. **Br J Obstet Gynaecol** 1997 Mar;104(3):278–84 (57 ref.). Comment in: Br J Obstet Gynaecol 1997 Mar;104(3):vii.

Bioactive substance accumulation and septic complications in a burn trauma patient: effect of perioperative blood transfusion? Nielsen HJ, et al. **Burns** 1997 Feb;23(1):59–63

Correction of anaemia: the time has come to evaluate tolerance for red cell depletion [editorial; comment] Bélisle S, et al. **Can J Anaesth** 1996 Jul;43(7):647–52. Comment on: Can J Anaesth 1996 Jul;43(7):714–23. **(Eng, Fre)**

Immunoresponsiveness of cancer patients: effect of blood transfusion and immune reactivity of tumor infiltrating lymphocytes. Quintiliani L, et al. **Cancer Detect Prev** 1995; 19(6):518–26

Monitoring of hemostasis in cardiac surgical patients: impact of point–of–care testing on blood loss and transfusion outcomes. Despotis GJ, et al. **Clin Chem** 1997 Sep; 43(9):1684–96 (153 ref.)

Growth deficiency in polytransfused beta–thalassaemia patients is not growth hormone dependent. Cavallo L, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):701–6

A distinct pattern of cytokine production from blood mononuclear cells in multitransfused patients with beta–thalassaemia. Salsaa B, et al. **Clin Exp Immunol** 1997 Mar;107(3):589–92

Provision of an out–of–hours blood banking service at a satellite hospital without blood bank staff. Cheng G, et al. **Clin Lab Haematol** 1996 Sep;18(3):201–5

Massive transfusion. Crosson JT. **Clin Lab Med** 1996 Dec; 16(4):873–82 (29 ref.)

Should we do another test? Decision making in blood banking. Hanson M. **Clin Lab Med** 1996 Dec;16(4):883–93

Improving the safety of transfusion therapy. Polesky HF. **Clin Lab Med** 1996 Dec;16(4):975–88 (71 ref.)

Mathematical calculations in transfusion medicine. Walker RH. **Clin Lab Med** 1996 Dec;16(4):895–906 (10 ref.)

Blood transfusion and bone allografts. Effect on infection and outcome. Tan MH, et al. **Clin Orthop** 1997 Jul; (340):207–14

Blood transfusion enhances production of T–helper–2 cytokines and transforming growth factor beta in humans. Gafter U, et al. **Clin Sci (Colch)** 1996 Oct;91(4):519–23

Effects of blood transfusion on oxygen uptake: old concepts adapted to new therapeutic strategies? [editorial; comment] Van der Linden P, et al. **Crit Care Med** 1997 May; 25(5):723–4. Comment on: Crit Care Med 1997 May;25(5):726–32.

Supportive care in hematologic malignancies, including hematopoietic growth factors, transfusions, and infectious complications. Fetscher S, et al. **Curr Opin Hematol** 1997 Jul;4(4):248–55 (65 ref.)

Transfusion–associated malaria [letter] Taylor F.
Emerg Infect Dis 1996 Apr–Jun;2(2):152

Peri–operative haemoglobin: an overview of current opinion regarding the acceptable level of haemoglobin in the peri–operative period. Wedgwood JJ, et al.
Eur J Anaesthesiol 1996 Jul;13(4):316–24 (58 ref.)

Strategies to reduce the need for peri–operative blood transfusion. Mertes N, et al. **Eur J Anaesthesiol Suppl** 1997 Mar;14:24–32; discussion 33–4 (59 ref.)

Treatment of the anemia of aplastic anemia patients with recombinant human erythropoietin in combination with granulocyte colony–stimulating factor: a multicenter randomized controlled study. Multicenter Study Group. Bessho M, et al. **Eur J Haematol** 1997 Apr;58(4):265–72

Clinical results of recombinant erythropoietin in transfusion–dependent patients with refractory multiple myeloma: role of cytokines and monitoring of erythropoiesis. Musto P, et al. **Eur J Haematol** 1997 May; 58(5):314–9

The effect of blood transfusion on oxygenation in premature ventilated neonates. James L, et al. **Eur J Pediatr** 1997 Feb;156(2):139–41

The effect of blood transfusion and haemodilution on cerebral oxygenation and haemodynamics in newborn infants investigated by near infrared spectrophotometry. Liem KD, et al. **Eur J Pediatr** 1997 Apr;156(4):305–10

Effect of blood transfusion on apnoea, bradycardia and hypoxaemia in preterm infants. Poets CF, et al.
Eur J Pediatr 1997 Apr;156(4):311–6

Epididymal and sex accessory gland secretions in transfusion–dependent beta–thalassemic patients: evidence of an impaired prostatic function. Carpino A, et al.
Exp Clin Endocrinol Diabetes 1997;105(3):169–74

Changes in selected Wistar rats lymph nodes after intratissue injection of allogenic blood. Czernicki K, et al.
Folia Morphol (Warsz) 1996;55(4):231–2

Blood transfusions in laryngeal cancer: effect on prognosis. Leon X, et al. **Head Neck** 1996 May–Jun;18(3):218–24

Roundtable of Experts in Surgery Blood Management—consensus statement. Messmer K.
Infusionsther Transfusionsmed 1996 Jun;23(3):143–6 (15 ref.)

How accurate is serologic testing of plasma pools for hepatitis B virus surface antigen, anti–human immunodeficiency virus 1 and 2, and anti–hepatitis C virus? [see comments] Rabenau H, et al. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):124–30. Comment in: Infusionsther Transfusionsmed 1996 Jun;23(3):122–3.

Successful treatment of a Jehovah's Witness with acute promyelocytic leukemia [letter] Fujita H, et al.
Int J Hematol 1997 Jun;65(4):415–6

The Jehovah's Witness family, transfusions, and pediatric day surgery. Morrison JE Jr, et al.
Int J Pediatr Otorhinolaryngol 1997 Jan 3;38(3):197–205; discussion 207–13

Do cardiac output and serum lactate levels indicate blood transfusion requirements in anemia of prematurity? Möller JC, et al. **Intensive Care Med** 1996 May;22(5):472–6

Jehovah's Witnesses: unique problems in a unique trauma population. Victorino G, et al. **J Am Coll Surg** 1997 May; 184(5):458–68

Reinfusion of mediastinal blood in CABG patients: impact on homologous transfusions and rate of re–exploration. de Varennes B, et al. **J Card Surg** 1996 Nov–Dec;11(6):387–95

Thrombopoietin: biology, clinical applications, role in the donor setting. Kuter DJ. **J Clin Apheresis** 1996;11(3):149–59 (69 ref.)

Cord blood transplantation for acute lymphoblastic leukemia in a pediatric patient. Wang LH, et al.
J Formos Med Assoc 1997 Mar;96(3):205–8

Recipient CD8+ cells are responsible for the rapid elimination of allogeneic donor lymphoid cells. Fast LD. **J Immunol** 1996 Dec 1;157(11):4805–10

Change in blood group phenotype. Balachandran V, et al.
J Indian Med Assoc 1996 Apr;94(4):151, 153

Blood transfusions in patients with advanced cancer [letter; comment] Davies A, et al. **J Pain Symptom Manage** 1997 Jun;13(6):318. Comment on: J Pain Symptom Manage 1996 Jul;12(1):18–22.

Effect of transfusion and phlebotomy on serum ferritin levels in low birth weight infants. Brown MS. **J Perinatol** 1996 Jan–Feb;16(1):39–42

Supplementing iron intravenously in pregnancy. A way to avoid blood transfusions. Hallak M, et al.
J Reprod Med 1997 Feb;42(2):99–103

Prolonged survival of rat hepatic allografts pretreated with a single donor–specific blood transfusion: the distribution of donor cells expressing class I major histocompatibility complex antigens in the recipient. Yamaguchi Y, et al.
J Surg Res 1996 Feb 15;61(1):23–9

Admission base deficit predicts transfusion requirements and risk of complications [letter; comment] Asimos AW, et al. **J Trauma** 1997 Mar;42(3):571–3. Comment on: J Trauma 1996 Nov;41(5):769–74.

The limits of bloodwarming: maximally heating blood with an inline microwave bloodwarmer. Herron DM, et al.
J Trauma 1997 Aug;43(2):219–26; discussion 226–8

Risk of hemorrhage and appropriate use of blood transfusions in pediatric blunt splenic injuries. Shafi S, et al.
J Trauma 1997 Jun;42(6):1029–32

Insulin and glucagon responses to provocation with glucose and arginine in prepubertal children with thalassemia major before and after long–term blood transfusion. Soliman AT, et al. **J Trop Pediatr** 1996 Oct;42(5):291–6

Blood donations and viruses [letter; comment] Schennach H, et al. **Lancet** 1997 May 3;349(9061):1327–8. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Collections of cord blood [letter; comment] Warwick R. **Lancet** 1997 Jul 26;350(9073):297. Comment on: Lancet 1997 May 17;349(9063):1482.

Steady–state calculation of the risk of HIV infection from transfusion of screened blood from repeat donors. Satten GA. **Math Biosci** 1997 Apr 15;141(2):101–13

Pre–operative autologous blood donation in haemodialysis patients [letter] Kyriazis J, et al.
Nephrol Dial Transplant 1996 Nov;11(11):2372–3

Role of preoperative donor–specific transfusion and cyclosporine in haplo–identical living related renal transplant recipients. Sharma RK, et al. **Nephron** 1997; 75(1):20–4

Termination of transfusion dependence in beta–thalassemia: two–year experience with recombinant human erythropoietin [letter] Nişli G, et al.
Pediatr Hematol Oncol 1997 May–Jun;14(3):285–7

Low risk of hepatitis C transmission by blood products [letter; comment] Buchanan GR, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):260. Comment on: Pediatr Infect Dis J 1996 Jul;15(7):563–75.

Physical performance in patients with thalassemia before and after transfusion. Villa MP, et al. **Pediatr Pulmonol** 1996

Jun;21(6):367-72
Purpuric phototherapy-induced eruption in transfused neonates: relation to transient porphyrinemia. Paller AS, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):360-4
Factors influencing haemostasis and blood transfusion in cardiac surgery. Liu B, et al. **Perfusion** 1996 Mar; 11(2):131-43
Indication, incidence and management of blood transfusion during sinus surgery: a review over 12 years. Maune S, et al. **Rhinology** 1997 Mar;35(1):2-5
Ten-year survival after resection for lung carcinoma. Effect of blood transfusion and tumour stage on outcome. Rainio P, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(2):87-91
Proceedings of the roundtable of experts in surgery blood management. Vienna, April 7-9, 1995. **Semin Hematol** 1997 Apr;33(2 Suppl 2):1-80
Proceedings of the roundtable of experts in surgery blood management. Vienna, Austria, April 7-9, 1995. **Semin Hematol** 1996 Apr;33(2 Suppl 2):1-80 (0 ref.)
The transfusion immunomodulation theory: the Th1/Th2 paradigm and an analogy with pregnancy as a unifying mechanism. Blumberg N, et al. **Semin Hematol** 1996 Oct; 33(4):329-40 (66 ref.)
Perioperative epoetin alfa increases red blood cell mass and reduces exposure to transfusions: results of randomized clinical trials. Goldberg MA. **Semin Hematol** 1997 Jul;34(3 Suppl 2):41-7 (30 ref.)
Impact of transfusion on viral load in human immunodeficiency virus infection. Groopman JE. **Semin Hematol** 1997 Jul;34(3 Suppl 2):27-33
Blood substitutes. Hess JR. **Semin Hematol** 1996 Oct; 33(4):369-78 (76 ref.)
Introduction: transfusion medicine. Klein HG. **Semin Hematol** 1996 Oct;33(4):275-6
Emerging trends in surgical blood transfusion. Spence RK. **Semin Hematol** 1997 Jul;34(3 Suppl 2):48-53 (51 ref.)
The use of blood products for surgical bleeding. Lipsett PA, et al. **Semin Vasc Surg** 1996 Dec;9(4):347-53 (28 ref.)
Effect of transfusion on physiologic changes after resuscitated trauma. Lyden SP, et al. **Surgery** 1997 Sep;122(3):534-45
Transfusion requirements are correlated with the degree of proteolysis of von Willebrand factor during orthotopic liver transplantation. Lattuada A, et al. **Thromb Haemost** 1997 Aug;78(2):813-9
Joint Scientific Conference of the Canadian Society for Transfusion Medicine and the Canadian Red Cross Society. 23-26 May 1996. Abstracts. **Transfus Med** 1997 Jun; 7(2):153-69
24th Meeting of the Australasian Society of Blood Transfusion. Christchurch, New Zealand, 1-5 October 1990. Abstracts. **Transfus Med** 1991 Jun;1(2):133-43
British Blood Transfusion Society XIV annual scientific meeting. Lancaster, United Kingdom, 6-9 September 1996. Abstracts. **Transfus Med** 1996;6 Suppl 2:1-57
Guidelines for pre-transfusion compatibility procedures in blood transfusion laboratories. BCSH Blood Transfusion Task Force. **Transfus Med** 1996 Sep;6(3):273-83
Guidelines for pre-transfusion compatability procedures [letter] Ashford P. **Transfus Med** 1997 Jun;7(2):171
From maximum surgical blood ordering schedule to unlimited computer crossmatching: evolution of blood transfusion for surgical patients at a tertiary hospital in Hong Kong. Chan AH, et al. **Transfus Med** 1996 Jun; 6(2):121-4
Transfusion-induced immunosuppression and red cell clearance. Donnelly PK, et al. **Transfus Med** 1991 Dec; 1(4):217-21
ISBT Code 128 and code changes as part of the implementation of a national IT system for the English National Blood Service [editorial] Doughty R, et al. **Transfus Med** 1996 Dec;6(4):299-301
A clinical trial of red-cell concentrate prepared from blood collected in half-strength citrate anticoagulant. Murphy WG, et al. **Transfus Med** 1991 Mar;1(1):25-9
Can pooled red cells be used for antibody screening of patients' specimens? [editorial; comment] Phillips P, et al. **Transfus Med** 1996 Dec;6(4):307-9. Comment on: Transfus Med 1996 Dec;6(4):345-9.
Length of survival after perioperative transfusion. Vamvakas EC, et al. **Transfus Med** 1997 Jun;7(2):115-21
The evolution of transfusion medicine as a stand alone discipline. Borzini P, et al. **Transfus Med Rev** 1997 Jul; 11(3):200-8 (37 ref.)
Modifying physicians' transfusion practice. Eisenstaedt RS. **Transfus Med Rev** 1997 Jan;11(1):27-37 (69 ref.)
Factors affecting growth of Yersinia enterocolitica in cellular blood products. Högman CF, et al. **Transfus Med Rev** 1996 Oct;10(4):259-75 (81 ref.)
Risk management in transfusion medicine. Isbister JP. **Transfus Med Rev** 1996 Jul;10(3):183-202 (42 ref.)
Clinical studies with solvent detergent-treated products. Pehta JC. **Transfus Med Rev** 1996 Oct;10(4):303-11 (39 ref.)
The effects of managed care on transfusion medicine. Popovsky MA, et al. **Transfus Med Rev** 1997 Jul; 11(3):195-9 (15 ref.)
Current good manufacturing practices for transfusion medicine. Sazama K. **Transfus Med Rev** 1996 Oct; 10(4):286-95 (18 ref.)
A proposal for an individual patient data based meta-analysis of randomized controlled trials of allogeneic transfusion and postoperative bacterial infection. Vamvakas EC, et al. **Transfus Med Rev** 1997 Jul;11(3):180-94
American Association of Blood Banks 50th annual meeting. Denver, Colorado, October 18-22, 1997. Abstracts. **Transfusion** 1997 Sep;37(9 Suppl):1S-144S
Frozen platelets and platelet substitutes in transfusion medicine. Alving BM, et al. **Transfusion** 1997 Aug; 37(8):866-76
Differential effect of donor-specific blood transfusions after kidney, heart, pancreas, and skin transplantation in major histocompatibility complex-incompatible rats. Bektas H, et al. **Transfusion** 1997 Feb;37(2):226-30
Allogeneic blood transfusions, immunomodulation, and postoperative bacterial infection: do we have the answers yet? [editorial; comment] Blajchman MA. **Transfusion** 1997 Feb;37(2):121-5. Comment on: Transfusion 1997 Feb;37(2):126-34.
Blood donor management in a high-risk environment: The National Blood Transfusion Service of the Ivory Coast [letter] Bontz W, et al. **Transfusion** 1997 Jan;37(1):106-7
The Viral Activation Transfusion Study (VATS): rationale, objectives, and design overview. Busch MP, et al. **Transfusion** 1996 Oct;36(10):854-9 (65 ref.)
A moderate transfusion regimen may reduce iron loading in beta-thalassemia major without producing excessive expansion of erythropoiesis. Cazzola M, et al. **Transfusion** 1997 Feb;37(2):135-40
TRANSFUSION looks back, steps forward [editorial] McCullough J. **Transfusion** 1997 Jan;37(1):3-4
Screening with monoclonal anti-Fy3 to provide blood for phenotype-matched transfusions for patients with sickle cell disease. Sandler SG, et al. **Transfusion** 1997 Apr; 37(4):393-7
The "virtual" transfusion service laboratory [editorial] Shulman IA. **Transfusion** 1997 Sep;37(9):883-5
Sensitivity analysis of cost-effectiveness of mechanical barrier system to reduce risk of a mistransfusion [letter] Silva VA. **Transfusion** 1997 Feb;37(2):243
Soluble interleukin 2 receptor and soluble CD8 levels in previously treated human immunodeficiency virus-negative hemophiliacs multiply transfused with a monoclonal antibody-purified factor VIII concentrate. Smid WM, et al. **Transfusion** 1997 Jan;37(1):86-9
Meta-analysis in transfusion medicine. Vamvakas EC. **Transfusion** 1997 Mar;37(3):329-45 (184 ref.)
Blood transfusion and infection after colorectal cancer surgery. Vamvakas EC, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):1000-8 (50 ref.)
Removal of ABO-incompatible red cells from lymphocytapheresis and granulocytapheresis components before transfusion. Wuest DL, et al. **Transfusion** 1997 Feb; 37(2):144-9
Indirect T-cell allorecognition and the mechanisms of immunosuppression by allogeneic blood transfusions. Sawyer GJ, et al. **Transpl Int** 1997;10(4):276-83
Synergistic effect of donor-specific blood transfusion and a short course of deoxyspergualin in rat kidney transplantation. Tanabe K, et al. **Transpl Int** 1996;9(4):353-8
Lymphocytotoxic antibody responses to one prospective HLA-DR typed blood transfusion in naive patients awaiting renal transplantation. The Groupe Coopératif de Transplantation de l'Ile de France. Busson M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1415-6
High interleukin-12 p40 mRNA expression in tolerant heart allografts in recipient rats treated by donor-specific transfusion. Cuturi MC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1170
The relationship of blood transfusion and immunosuppression to the Th1/Th2 paradigm. Frede SE, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1153-4
Histopathologic changes of antibody-mediated small bowel graft rejection in blood-transfused recipients. Fujisaki S, et al. **Transplant Proc** 1996 Oct;28(5):2484
Immune response after syngeneic and allogeneic blood cell transplantation. Grzelak I, et al. **Transplant Proc** 1997 Jun; 29(4):2181-2
Rat renal allograft tolerance is associated with local TGF-beta and absence of IL-2r expression within chimeric immunocytic foci. Hewitt CW, et al. **Transplant Proc** 1997 Jun;29(4):2183-4
CTLA4Ig inhibits alloantibody responses to transfusions and transplants. Ibrahim S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1025
Humoral mechanism of split tolerance to lymphocyte and heart allografts after donor-specific transfusion. Jasklowska-Englisz M, et al. **Transplant Proc** 1997 Jun; 29(4):2185-6
Mechanisms of recombinant IFN gamma-induced acute heart allograft rejection in recipient rats made tolerant to donors by pre-graft donor-specific blood transfusion. Josien R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1055-6
Risk of virus transmission by tissue, blood, and plasma products. Lelie PN, et al. **Transplant Proc** 1996 Oct; 28(5):2939
Prevalence and seroconversion to HCV in hemodialyzed patients, and epidemiological factors. Morales MF, et al. **Transplant Proc** 1996 Dec;28(6):3402-5
Donor-specific blood transfusion in living-related renal transplantation: fourteen-year experience. Okazaki H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):200-2
Differential immunodominance of individual MHC locus products: implications for the induction of immunologic tolerance to allografts. Saitovitch D, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1443
Peripheral blood chimerism in renal allograft recipients transfused with donor-specific blood. Sakurada M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1187-8
Influence of indirect T-cell allorecognition on the immunosuppressive effects of multiple blood transfusions. Sawyer GJ, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1010-1
Donor-specific transfusion in the nude rat prolongs survival of subsequently transplanted hamster cardiac xenografts. Valdivia LA, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):928-9
Cytotoxic T lymphocyte changes after HLA-DR match and HLA-DR mismatch blood transfusions. Baudouin V, et al. **Transplantation** 1997 Apr 27;63(8):1155-60
Blood transfusions in liver recipients: a conundrum or a clear benefit in the cyclosporine/tacrolimus era? Koneru B, et al. **Transplantation** 1997 Jun 15;63(11):1587-90
Prospective evaluation of pretransplant blood transfusions in cadaver kidney recipients. Opelz G, et al. **Transplantation** 1997 Apr 15;63(7):964-7
Portal venous transfusion up-regulates Kupffer cell cyclooxygenase activity: a mechanism of immunosuppression in organ transplantation. Perez RV, et al. **Transplantation** 1997 Jul 15;64(1):135-9
Modulation of the T cell compartment by blood transfusion. Effect on cytotoxic and helper T lymphocyte precursor frequencies and T cell receptor Vbeta usage. van der Mast BJ, et al. **Transplantation** 1997 Apr 27;63(8):1145-54
Effect of HLA-DR-shared blood transfusion on the clinical outcome of heart transplantation. van der Mast BJ, et al. **Transplantation** 1997 May 27;63(10):1514-9
Effect of one-HLA-haplotype-matched and HLA-mismatched blood transfusions on recipient T lymphocyte allorepertoires. Young NT, et al. **Transplantation** 1997 Apr 27;63(8):1160-5
24th Congress of the International Society of Blood Transfusion. Makuhari Messe, Japan, March 31-April 5, 1996. Plenary and educational lectures. **Vox Sang** 1996;70 Suppl 3:1-157
24th Congress of the International Society of Blood Transfusion. Makuhari Messe, Japan, March 31-April 5, 1996. Abstracts. **Vox Sang** 1996;70 Suppl 2:1-199
Safety of blood products derived from plasma pools: the positive impact of anti-HCV screening on the quality of such products. da Silva Cardoso M, et al. **Vox Sang** 1996; 71(3):184-6
Current research on the immunomodulatory effect of allogeneic blood transfusion. Dzik S, et al. **Vox Sang** 1996; 70(4):187-94 (56 ref.)
Bedside transfusion errors: analysis of 2 years' use of a system to monitor and prevent transfusion errors. Mercuriali F, et al. **Vox Sang** 1996;70(1):16-20
Growth factors and their impact on transfusion medicine. Miller YM, et al. **Vox Sang** 1996;71(4):196-204 (48 ref.)
Sterility testing of blood products in 1994/1995 by three cooperating blood banks in The Netherlands. Soeterboek AM, et al. **Vox Sang** 1997;72(1):61-2
Audit and education in transfusion medicine. Toy PT. **Vox Sang** 1996;70(1):1-5 (34 ref.)
Look-back of anti-HCV ELISA-positive, HCV-RNA PCR-negative donors and recipients of their blood products. Vrielink H, et al. **Vox Sang** 1997;72(2):67-70
Selected hematologic problems in surgical patients--introduction. Rudowski WJ. **World J Surg** 1996 Nov-Dec;20(9):1131-2
[Transfusion medicine--Scandinavian recommendations] Gudmundsson S, et al. **Nord Med** 1997 Apr;112(4):129-30 **(Dan)**
[Transfusion service of the county of Funen. Organizational and economical aspects of restructuring] Georgsen J, et al. **Ugeskr Laeger** 1997 Mar 17;159(12):1758-62 (Eng. Abstr.) **(Dan)**
[Rational transfusion therapy. A study of transfusion practice and possibilities of optimization in elective coronary bypass surgery] Højlund K, et al. **Ugeskr Laeger** 1996 Dec 9; 158(50):7237-40 (Eng. Abstr.) **(Dan)**
[Use of leukocyte-depleted blood for transfusion] Jensen LS. **Ugeskr Laeger** 1997 Aug 18;159(34):5073-6 **(Dan)**
[Transfusion and Jehovah's witnesses. A review of medicosurgical attitudes in a University hospital in 1995] Gouëzec H, et al. **Ann Fr Anesth Reanim** 1996;15(7):1121-3 (Eng. Abstr.) **(Fre)**
[New regulations of blood transfusion in France (editorial)] Janvier G. **Ann Fr Anesth Reanim** 1996;15(5):581-2 **(Fre)**
[Public health safety and transfusion organization] Vachey L. **Bull Acad Natl Med** 1997 May;181(5):853-61 (Eng. Abstr.) **(Fre)**
[Follow-up of blood donors with positive serology for hepatitis C virus and their recipients is insufficient] Bonaguidi-Magniaux M, et al. **Gastroenterol Clin Biol** 1996; 20(8-9):663-8 (Eng. Abstr.) **(Fre)**
[Medical follow-up of blood donors with hepatitis C virus antibodies. Value of transfusion surveys for the recipients (editorial)] Jullien AM. **Gastroenterol Clin Biol** 1996; 20(8-9):657-60 **(Fre)**
[Indications for blood transfusion] Naman RE. **J Med Liban** 1995;43(2):72-82 (68 ref.) **(Fre)**
[Identification and information on patients transfused between 1980 and 1985 at Alexis Vautrin Center] Dartois D, et al. **Transfus Clin Biol** 1996;3(2):125-31 (Eng. Abstr.) **(Fre)**

[Transfusion at home? An alternative to the day hospital] Idri S, et al. **Transfus Clin Biol** 1996;3(4):235–9 (Eng. Abstr.) **(Fre)**

[Differential volume substitution therapy] **Anaesthesist** 1996 Nov;45(11 Suppl):1–8 **(Ger)**

[Assuring normovolemia in extreme hemodilution] Adams HA. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct;31(8):494–6 (20 ref.) **(Ger)**

[Comment on the Mini-Symposium, "Extreme anemia in transfusion refusal" (letter)] Bioping J. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jul; 32(7):470, 472–3 **(Ger)**

[Legal comment on refusal of blood transfusions] Bock RW. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):506–7 **(Ger)**

[Tolerating extreme intraoperative blood loss by a Jehovah's Witness patient] Busse J, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):498–501 **(Ger)**

[Arguments of Jehovah's Witnesses for refusing blood transfusions] Kahle R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):490–1 **(Ger)**

[Has evolution made a mistake? Living with hemoglobin! (letter)] Michaelis G. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jul; 32(7):471–3 **(Ger)**

[Fatal hemorrhagic shock in a Jehovah's Witness] Schweitzer M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):504–6 **(Ger)**

[Survival of very severe hemorrhage-induced anemia in a Jehovah's Witness] Tessmann R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):501–4 **(Ger)**

[Administration of erythropoietin in extreme anemia] von Bormann B, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):497–8 (18 ref.) **(Ger)**

[Oxygen supply and acid-base status in extreme anemia] Zander R. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):492–4 (30 ref.) **(Ger)**

[Hemocompatibility testing of polymers] Seyfert UT, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:241–6 (Eng. Abstr.) **(Ger)**

[Quality assurance in transfusion medicine: organization of a quality assurance system exemplified by the Heidelberg University Blood Bank] Stahl D, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:247–56 (Eng. Abstr.) **(Ger)**

[Changes in hemostasis during orthotopic liver transplantation and massive transfusion: a case report] Kozek-Langenecker SA, et al. **Infusionsther Transfusionsmed** 1995 Oct;22(5):296–300 (Eng. Abstr.) **(Ger)**

[Ocular side effects of deferoxamine therapy in aplastic anemia with transfusion-induced hemochromatosis] Spraul CW, et al. **Klin Monatsbl Augenheilkd** 1996 Jul;209(1):31–6 (Eng. Abstr.) **(Ger)**

[Therapy with blood and blood products] Kreienbühl G. **Urologe A** 1996 Jan;35(1):69–85 (46 ref.) **(Ger)**

[A local blood libel (editorial)] Modan B. **Harefuah** 1996 Sep; 131(5–6):168–9 **(Heb)**

[Transfusion problems in liver transplantation] Radnai J, et al. **Orv Hetil** 1996 Oct 20;137(42 Suppl 1):2377–9 (Eng. Abstr.) **(Hun)**

[A patient who recovered successfully from severe anemia which continued for one hour] Asao Y, et al. **Masui** 1997 May;46(5):700–3 (Eng. Abstr.) **(Jpn)**

[The efficiency of a new porous type leukocyte removal filter for red cell blood components, Terumo Imuguard III-RC, in the rapid transfusion conditions] Kajiyama S, et al. **Masui** 1997 Jun;46(6):855–9 (Eng. Abstr.) **(Jpn)**

[Anesthesia for pediatric open heart surgery without transfusion] Ohnishi Y, et al. **Masui** 1997 Feb;46(2):199–204 (Eng. Abstr.) **(Jpn)**

[Intraoperative fluid infusion and blood transfusion in patients of esophageal cancer] Endo Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Jun;97(6):416–20 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Aprotinin reduces homologous blood transfusions when pediatric cardiac surgery must be redone] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):1980–5 (Eng. Abstr.) **(Jpn)**

[Open heart surgery without homologous blood transfusion for tetralogy of Fallot--use of hydroxyethyl starch diminishes the necessity of protein transfusion] Takahashi Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May; 45(5):694–9 (Eng. Abstr.) **(Jpn)**

[Blood transfusion therapy of hematological diseases (discussion)] **Nippon Naika Gakkai Zasshi** 1996 Jun 10; 85(6):892–913 **(Jpn)**

[Present status and future of blood management in Japan] Sekiguchi S, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):862–70 (9 ref.) **(Jpn)**

[Blood transfusion and Jehovah's witnesses--problems in life-threatening conditions. A questionnaire among Norwegian anesthesiologists] Meidell NK, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2795–8 (Eng. Abstr.) **(Nor)**

[Avoid blood transfusion in elective surgery] Pillgram-Larsen J. **Tidsskr Nor Laegeforen** 1996 Sep 30; 116(23):2764–5 **(Nor)**

[Requirement for blood in hemodialyzed patients with chronic renal failure in the period before and after introduction to erythropoietin (r-HuEPO) treatment] Więcek A, et al. **Przegl Lek** 1996;53(12):866–9 (Eng. Abstr.) **(Pol)**

[Filtration of media for infusion-transfusion therapy as a measure of prevention of systemic inflammatory reaction in surgery using artificial blood circulation] Kozlov IA, et al. **Anesteziol Reanimatol** 1997 May-Jun;(3):21–6 (Eng. Abstr.) **(Rus)**

[The use of autologous blood and plasma transfusions in patient combined treatment] Starikov AV, et al. **Klin Khir** 1996;(7):5–7 **(Rus)**

[Transfusion therapy in acute blood loss (2)] Briusov PG. **Voen Med Zh** 1997 Feb;318(2):26–31 **(Rus)**

[Infusion-transfusion therapy at stages of medical evacuation] Danil'chenko VV. **Voen Med Zh** 1997 Jan;318(1):53–6 **(Rus)**

[The blood transfusion service during war: how can sufficient blood be provided?] Begović M, et al. **Med Arh** 1995; 49(1–2):31–4 (Eng. Abstr.) **(Scr)**

[Program of hypertransfusion and chelation with desferrioxamine in 10 patients with thalassemia major] Albo C, et al. **Sangre (Barc)** 1995 Dec;40(6):441–5 (Eng. Abstr.) **(Spa)**

[Erythrophagocytosis as a transfusion parameter in a case of autoimmune hemolytic anemia (letter)] Biondi C, et al. **Sangre (Barc)** 1995 Dec;40(6):522–3 **(Spa)**

[Filling out the transfusion request form in a general hospital (letter)] Calvo Villas JM, et al. **Sangre (Barc)** 1996 Oct; 41(5):406 **(Spa)**

[Immunohematologic study and transfusion approach to patients with public antibodies] Solves P, et al. **Sangre (Barc)** 1997 Feb;42(1):25–9 (Eng. Abstr.) **(Spa)**

[Jehovah's witnesses and blood transfusion (see comments)] Jacobsson L. **Lakartidningen** 1996 Sep 18;93(38):3227. Comment in: Lakartidningen 1996 Dec 4;93(49):4523. **(Swe)**

ADVERSE EFFECTS

Transfusion-related acute lung injury (TRALI) after fresh frozen plasma in a patient with coagulopathy. Lindgren L, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):641–4

Lack of dual HIV infection in a transfusion recipient exposed to two seropositive blood components. Diaz RS, et al. **AIDS Res Hum Retroviruses** 1996 Sep 1;12(13):1291–5

Iron overload in reticuloendothelial systems of pediatric oncology patients who have undergone transfusions: MR observations. Emy PY, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):1011–5

Risks of transfusion and organ and tissue transplantation: practical concerns that drive practical policies. DeChristopher PJ, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S2–11 (39 ref.)

Development of oral lesions in human immunodeficiency virus-infected transfusion recipients and hemophiliacs. Hilton JF, et al. **Am J Epidemiol** 1997 Jan 15;145(2):164–74

Antibody studies in a patient with acute thrombocytopenia following infusion of plasma containing anti-PI(A1). Brunner-Bolliger S, et al. **Am J Hematol** 1997 Oct; 56(2):119–21

Unscreened transfusion related human immunodeficiency virus type-I infection amongst Indian thalassemic children [letter] Kumar RM, et al. **Am J Hematol** 1996 Sep; 53(1):51–2

Delayed hemolytic transfusion reaction due to anti-Go(a), an antibody against the low-prevalence Gonzales antigen. Larson PJ, et al. **Am J Hematol** 1996 Dec;53(4):248–50

Posttransfusion purpura: two unusual cases and a literature review. McCrae KR, et al. **Am J Hematol** 1996 Jul; 52(3):205–11 (45 ref.)

Transfusion-induced hypoxemia in beta-thalassaemia [letter] Tassiopoulos T, et al. **Am J Hematol** 1996 Nov;53(3):206

Moderate and transient transfusion-associated cutaneous graft-versus-host disease in a child infected by human immunodeficiency virus. Klein C, et al. **Am J Med** 1996 Oct;101(4):445–6

Hepatitis C-associated osteosclerosis after blood transfusion. Whyte MP, et al. **Am J Med** 1997 Feb;102(2):219–20

Human T cell lymphotropic virus type-1-associated myelopathy/tropical spastic paraparesis in Sao Paulo, Brazil: association with blood transfusion. Domingues RB, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):56–9

Postoperative inflammatory response after autologous and allogeneic blood transfusion. Avall A, et al. **Anesthesiology** 1997 Sep;87(3):511–6

Bilirubinuria, conjugated hyperbilirubinaemia and delta bilirubinaemia following acute haemolysis. Cummins D, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):109–10

Long-term treatment of transfusional iron overload with the oral iron chelator deferiprone (L1): a Dutch multicenter trial. Kersten MJ, et al. **Ann Hematol** 1996 Nov; 73(5):247–52

Blood transfusion and non-Hodgkin lymphoma: lack of association. Adami J, et al. **Ann Intern Med** 1997 Sep 1; 127(5):365–71

SHOT surveillance programme. Lumley J. **Ann R Coll Surg Engl** 1997 Mar;79(2 Suppl):72, 74

Potential use of WR6026 as prophylaxis against transfusion-transmitted American trypanosomiasis. Chiari E, et al. **Antimicrob Agents Chemother** 1996 Mar; 40(3):613–5

Hepatitis C infection after blood product transfusion. Kelly DA. **Arch Dis Child** 1996 Nov;75(5):363–5 (52 ref.)

Blood transfusion. An independent risk factor for postinjury multiple organ failure. Moore FA, et al. **Arch Surg** 1997 Jun;132(6):620–4; discussion 624–5

Transfusion transmitted Yersinia enterocolitica infection in New Zealand. Theakston EP, et al. **Aust N Z J Med** 1997 Feb;27(1):62–7

Transfusion-transmitted disease. Lee CA. **Baillieres Clin Haematol** 1996 Jun;9(2):369–94 (107 ref.)

Cytokines as intercellular signals in hemolytic transfusion reactions. Davenport RD. **Biol Signals** 1996 Jul-Aug; 5(4):240–5 (20 ref.)

New epidemiologic leads in the etiology of non-Hodgkin lymphoma in the elderly: the role of blood transfusion and diet. Cerhan JR. **Biomed Pharmacother** 1997;51(5):200–7 (38 ref.)

Phlebotomy to reduce iron overload in patients cured of thalassemia by bone marrow transplantation. Italian Cooperative Group for Phlebotomy Treatment of Transplanted Thalassemia Patients. Angelucci E, et al. **Blood** 1997 Aug 1;90(3):994–8

GB virus C infection and liver transplantation: increased risk of transfusion-transmitted infection [letter] Feucht HH, et al. **Blood** 1997 Mar 15;89(6):2223–4

CTLA4Ig inhibits alloantibody responses to repeated blood transfusions. Ibrahim S, et al. **Blood** 1996 Dec 15; 88(12):4594–600

Characterization of T-cell clones derived from peripheral blood lymphocytes of a patient with transfusion-associated graft-versus-host disease: Fas-mediated killing by CD4+ and CD8+ cytotoxic T-cell clones and tumor necrosis factor beta production by CD4+ T-cell clones. Nishimura M, et al. **Blood** 1997 Feb 15;89(4):1440–5

Transfusion-associated graft-versus-host disease and its prevention. Williamson LM, et al. **Blood Rev** 1995 Dec; 9(4):251–61 (74 ref.)

Blood donated after vaccination with rabies vaccine derived from sheep brain cells might transmit CJD [letter; comment] Arya SC. **BMJ** 1996 Nov 30;313(7069):1405. Comment on: BMJ 1996 Aug 24;313(7055):441.

Pulmonary toxoplasmosis after allogeneic bone marrow transplantation: case report and review. Saad R, et al. **Bone Marrow Transplant** 1996 Jul;18(1):211–2 (10 ref.)

Hepatitis C virus (HCV) infection in bone marrow transplant patients after transfusions from anti-HCV-positive blood donors. Shuhart MC, et al. **Bone Marrow Transplant** 1996 Apr;17(4):601–6

Leucocyte-derived bioactive substances in fresh frozen plasma. Nielsen HJ, et al. **Br J Anaesth** 1997 May; 78(5):548–52

Effect of blood transfusion on postoperative immunocompetence [editorial] Wheatley T, et al. **Br J Anaesth** 1997 May;78(5):489–92 (64 ref.)

Post-transfusion alloimmunization [letter; comment] Quijada JG. **Br J Haematol** 1996 Dec;95(3):573–4. Comment on: Br J Haematol 1995 Dec;91(4):1000–5.

Prevalence and clinical significance of hepatitis G virus infection in adult beta-thalassaemia major patients. Sampietro M, et al. **Br J Haematol** 1997 Jun;97(4):904–7

Risk factor analysis of patients with chronic hepatitis C in Taiwan. Li CP, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Oct; 58(4):275–80

History of posttransfusion hepatitis. Tobler LH, et al. **Clin Chem** 1997 Aug;43(8 Pt 2):1487–93 (47 ref.)

Primary cytomegalovirus infection in liver transplant recipients: comparison of infections transmitted via donor organs and via transfusions. Boston Center for Liver Transplantation CMVIG Study Group. Falagas ME, et al. **Clin Infect Dis** 1996 Aug;23(2):292–7

A Canadian hospital-based HIV/hepatitis C look-back notification program [see comments] Heddle N, et al. **CMAJ** 1997 Jul 15;157(2):149–54. Comment in: CMAJ 1997 Jul 15;157(2):155–7.

"For any shortcomings on the part of the Red Cross, we are deeply sorry" [letter; comment] Jackson FI. **CMAJ** 1997 Aug 1;157(3):246. Comment on: Can Med Assoc J 1997 May 15;156(10):1401–2.

Look-back notification: how do we assess effectiveness? [editorial; comment] King SM. **CMAJ** 1997 Jul 15; 157(2):155–7. Comment on: CMAJ 1997 Jul 15;157(2):149–54.

Risk of HIV infection from blood transfusion in Montreal [see comments] Remis RS, et al. **CMAJ** 1997 Aug 15; 157(4):375–82. Comment in: CMAJ 1997 Aug 15;157(4):391–2.

HIV in the blood supply: nothing to fear but fear itself [editorial; comment] Strathdee SA, et al. **CMAJ** 1997 Aug 15;157(4):391–2. Comment on: CMAJ 1997 Aug 15;157(4):375–82.

Surveillance of viral infections in donated blood. **Commun Dis Rep CDR Wkly** 1997 Jul 18;7(29):256

HIV infection transmitted through transfusion. **Commun Dis Rep CDR Wkly** 1997 Apr 18;7(16):137

Surveillance of the complications of blood transfusion. **Commun Dis Rep CDR Wkly** 1996 Nov 22;6(47):409

A sequential procedure to test the progressive decrease of rare adverse events. Boëlle PY, et al. **Comput Biol Med** 1996 Nov;26(6):513–23

Prevalence of transmissible blood infections among blood donors at the University of Maiducuri Teaching Hospital, Maiduguri, Nigeria. Chikwem JO, et al. **East Afr Med J** 1997 Apr;74(4):213–6

Is Creutzfeldt–Jakob disease transmitted in blood? Ricketts MN, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):155–63 (67 ref.)

Situation of the blood banks in the region of the Americas, 1994–1995. **Epidemiol Bull** 1997 Mar;18(1):11–2

Genotyping of hepatitis C virus isolates from Basque Country, Spain. Cilla G, et al. **Epidemiol Infect** 1996 Dec; 117(3):533–6

Hepatitis C and G virus infections in polytransfused children. Chung JL, et al. **Eur J Pediatr** 1997 Jul;156(7):546–9

Blood transfusion and chronic lung disease in preterm infants. Cooke RW, et al. **Eur J Pediatr** 1997 Jan;156(1):47–50

Blood transfusion. Iron load and retinopathy of prematurity. Hesse L, et al. **Eur J Pediatr** 1997 Jun;156(6):465–70

Lungs in thalassaemia major patients receiving regular transfusion. Tai DY, et al. **Eur Respir J** 1996 Jul; 9(7):1389–94

The role of hepatitis G virus infection in patients with acute posttransfusion hepatitis in Taiwan. Hwang SJ, et al. **Gastroenterology** 1997 Apr;112(4):1260–4

Relationship of blood transfusion, post–operative infections and immunoreactivity in patients undergoing surgery for gastrointestinal cancer. Quintiliani L, et al. **Haematologica** 1997 May–Jun;82(3):318–23

Influence of blood transfusion on postoperative long–term liver function in patients with hepatocellular carcinoma. Itasaka H, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):465–8

The prevalence of transfusion transmitted diseases in renal transplant recipients. Choudhury N, et al. **Indian J Pathol Microbiol** 1996 Jul;39(3):191–5

Rationale and strategy for utilization of available blood in transfusion practice—an overview. Khurana SK, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):343–54 (30 ref.)

Blood transfusion services: blood safety in India [editorial] Talib VH, et al. **Indian J Pathol Microbiol** 1996 Oct; 39(4):255–6

Transfusion malaria. Talib VH, et al. **Indian J Pathol Microbiol** 1996 Dec;39(5):493–7

Post transfusion purpura in a thalassemic child. Kashyap R, et al. **Indian Pediatr** 1997 Mar;34(3):246–7 (6 ref.)

Viral transmission by blood products: a perspective of events covered by the recent tribunal of enquiry into the Irish Blood Transfusion Board [editorial] Yap PL. **Ir Med J** 1997 Apr–May;90(3):84, 86, 88

Effect of human recombinant erythropoietin therapy on panel reactive antibodies in chronic dialysis patients. Friedlaender MM, et al. **Isr J Med Sci** 1996 Sep;32(9):730–6

HCV activity in Calcutta—a serological study. Neogi DK, et al. **J Commun Dis** 1997 Mar;29(1):1–6

Scaling lichenoid eruptions and Sjögren–like syndrome: manifestations of nonfatal postoperative transfusion–associated graft–versus–host disease? Tanei R, et al. **J Dermatol** 1997 Aug;24(8):514–21

Transfusion–associated chronic hepatitis C: alpha–n1 interferon for 6 vs. 12 months. Craxi A, et al. **J Hepatol** 1996 May;24(5):539–46

Post–transfusion hepatitis type B following multiple transfusions of HBsAg–negative blood. Saraswat S, et al. **J Hepatol** 1996 Nov;25(5):639–43

Superinfection by homotypic virus in hepatitis C virus carriers: studies on patients with post–transfusion hepatitis. Kao JH, et al. **J Med Virol** 1996 Dec;50(4):303–8

Desferrioxamine ototoxicity in an adult transfusion–dependent population. Chiodo AA, et al. **J Otolaryngol** 1997 Apr;26(2):116–22

Haemodynamic effects of differing blood transfusion rates in infants less than 1500 g. Nosè Y, et al. **J Paediatr Child Health** 1996 Apr;32(2):177–82

Predicting life–threatening coagulopathy in the massively transfused trauma patient: hypothermia and acidoses revisited. Cosgriff N, et al. **J Trauma** 1997 May; 42(5):857–61; discussion 861–2

Prostaglandin E1 inhibits platelet decrease after massive blood transfusions during major surgery: influence on coagulation cascade? Locker GJ, et al. **J Trauma** 1997 Mar; 42(3):525–31

Aspergillus fumigatus specific antibodies in multitransfused children with human immunodeficiency virus (HIV) infection in relation to serum levels of Interleukin–2, gamma Interferon and tumour necrosis factor. Bhatnagar PK, et al. **J Trop Pediatr** 1996 Apr;42(2):85–90

Lack of evidence of HIV–2 infection among multitransfused thalassemic children in the city of New Delhi [letter] Chattopadhya D, et al. **J Trop Pediatr** 1996 Apr;42(2):116–7

Hepatitis E virus infection in patients from Saudi Arabia with sickle cell anaemia and beta–thalassemia major: possible transmission by blood transfusion. al–Fawaz I, et al. **J Viral Hepat** 1996 Jul;3(4):203–5

Clinical and serological courses of a newborn with post–transfusion hepatitis C. Maniwa H, et al. **J Viral Hepat** 1995;2(6):303–5

From the Centers for Disease Control and Prevention. Red blood cell transfusions contaminated with Yersinia enterocolitica—United States, 1991–1996, and initiation of a national study to detect bacteria–associated transfusion reactions. **JAMA** 1997 Jul 16;278(3):196–7

Prevalence of hepatitis B infection in beta thalassaemia major patients [letter] Mujeeb SA, et al. **JPMA J Pak Med Assoc** 1996 Apr;46(4):93

Duration of chronic HCV infection and efficacy of interferon in chronic hepatitis C patients with a history of blood transfusion. The Study Group for Treatment of Hepatitis in the Kyushu Area. Sata M, et al. **Kansenshogaku Zasshi** 1997 May;71(5):405–11

HIV–1–infected blood in UK [news] **Lancet** 1997 Apr 26; 349(9060):1226

Reclassified AIDS cases in Italy 1990–95 [letter] Arcieri R, et al. **Lancet** 1996 Dec 21–28;348(9043):1741–2

GB virus C transmission by blood products [letter; comment] Feucht HH, et al. **Lancet** 1997 Feb 8;349(9049):435. Comment on: Lancet 1996 Dec 14;348(9042):1626–9.

Japanese hospital list starts worry about HIV [news] Gutierrez E, et al. **Lancet** 1996 Oct 19;348(9034):1093

Blood–bank screening for hepatitis G [letter; comment] Kao JH, et al. **Lancet** 1997 Jan 18;349(9046):207. Comment on: Lancet 1996 Nov 9;348(9037):1318–9.

Report charges "cover–up" by Canada's blood overseers [news] Kondro W. **Lancet** 1997 Feb 1;349(9048):336

Transfusional risk of HHV–8 infection [letter; comment] Lefrère JJ, et al. **Lancet** 1997 Jul 19;350(9072):217. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Blood donations and viruses [letter; comment] Operskalski EA, et al. **Lancet** 1997 May 3;349(9061):1327. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Plasma trade and the HIV epidemic [letter] Volkow P, et al. **Lancet** 1997 Feb 1;349(9048):327–8

Dark ring sign: finding in patients with fungal liver lesions and transfusional hemosiderosis undergoing treatment with antifungal antibiotics. Kelekis NL, et al. **Magn Reson Imaging** 1996;14(6):615–8

The risk of transmitting HCV, HBV or HIV by blood transfusion in Victoria. Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):584–6

Thanksgiving day for the gift of life [editorial] Whyte GS, et al. **Med J Aust** 1997 Jul 7;167(1):7–8 (15 ref.)

Red blood cell transfusions contaminated with Yersinia enterocolitica—United States, 1991–1996, and initiation of a national study to detect bacteria–associated transfusion reactions. **MMWR Morb Mortal Wkly Rep** 1997 Jun 20; 46(24):553–5

The incidence of transfusion–associated hepatitis G virus infection and its relation to liver disease [see comments] Alter HJ, et al. **N Engl J Med** 1997 Mar 13;336(11):747–54 . Comment in: N Engl J Med 1997 Mar 13;336(11):795–6. Comment in: N Engl J Med 1997 Jul 24;337(4):276–7. Comment in: N Engl J Med 1997 Jul 24;337(4):277.

Transfusion–transmitted viral infections. Retrovirus and Viral Hepatitis Working Groups of the French Society of Blood Transfusion [letter; comment] Couroucé AM, et al. **N Engl J Med** 1996 Nov 21;335(21):1609–10. Comment on: N Engl J Med 1996 Jun 27;334(26):1685–90.

Hepatitis GB virus C [letter] Yoshiba M, et al. **N Engl J Med** 1996 Oct 31;335(18):1392–3

Case report: post–transfusion purpura. Gonzalez J, et al. **N J Med** 1996 Feb;93(2):101–2

Arrests made in HIV blood scandal [news] Nathan R. **Nat Med** 1996 Nov;2(11):1169

Epidemiology of HCV infection in the general population and in blood transfusion. Botté C, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:19–21 (8 ref.)

Alzheimer's disease and history of blood transfusion by apolipoprotein–E genotype. O'Meara ES, et al. **Neuroepidemiology** 1997;16(2):86–93

Overview: diagnostic tests for viral infections transmitted by blood. Holland PV. **Nucl Med Biol** 1994 Apr;21(3):407–17 (26 ref.)

Transfusion–associated graft–versus–host disease. Gresik MV. **Pediatr Pathol Lab Med** 1996 Jan–Feb;16(1):137–42

Analysis of the hypervariable region of hepatitis C virus E2/NS1 gene in an infant infected by blood transfusion. Sugiyama K, et al. **Pediatr Res** 1997 Aug;42(2):247–50

Viral risks associated with blood transfusion. Sloand EM. **Photochem Photobiol** 1997 Mar;65(3):428–31 (55 ref.)

Allogeneic transfusion and infection: economic and clinical implications. Blumberg N. **Semin Hematol** 1997 Jul;34(3 Suppl 2):34–40 (29 ref.)

Transfusion–transmitted infections: update. Menitove JE. **Semin Hematol** 1996 Oct;33(4):290–301 (80 ref.)

Transfusion–associated graft–versus–host disease diagnosed by polymerase chain reaction analysis of DNA microsatellites: an autopsy case with immunohistochemical investigation. Kumamoto H, et al. **Tohoku J Exp Med** 1996 Aug;179(4):281–9

Guidelines on gamma irradiation of blood components for the prevention of transfusion–associated graft–versus–host disease. BCSH Blood Transfusion Task Force [see comments] **Transfus Med** 1996 Sep;6(3):261–71. Comment in: Transfus Med 1997 Jun;7(2):172–3.

Dried sera for confirming blood–borne virus infections (HCV, HTLV–I, HIV & HBsAg). Das PC, et al. **Transfus Med** 1996 Dec;6(4):319–23

A matter for debate: the risk of bovine spongiform encephalopathy to humans posed by blood transfusion in the UK [see comments] Dealler S. **Transfus Med** 1996 Sep; 6(3):217–22. Comment in: Transfus Med 1996 Sep;6(3):213–5.

Differences in post–operative infection rates between patients receiving autologous and allogeneic blood transfusion: a meta–analysis of published randomized and nonrandomized studies [see comments] Duffy G, et al. **Transfus Med** 1996 Dec;6(4):325–8. Comment in: Transfus Med 1996 Dec;6(4):303–6.

Post–transfusion hepatitis after open–heart surgery in Finland—a prospective study. Ebeling F, et al. **Transfus Med** 1991 Jun;1(2):103–7

Post–transfusion hepatitis C in Finland. Ebeling F, et al. **Transfus Med** 1991 Jun;1(2):109–13

Prion disease and blood transfusion [editorial; comment] Flanagan P, et al. **Transfus Med** 1996 Sep;6(3):213–5. Comment on: Transfus Med 1996 Sep;6(3):217–22.

The role of personal interviews by direct questioning on blood donors with particular reference to prevention of transfusion–related infections: a Scottish perspective. Galea G. **Transfus Med** 1997 Mar;7(1):13–7 (20 ref.)

Lymphocyte phenotypes and infection incidence in transfused preterm neonates. Kutvirt SG, et al. **Transfus Med** 1996 Dec;6(4):329–36

Transfusion in crisis: HIV in the developing world. Mortimer PP. **Transfus Med** 1991 Mar;1(1):1–3

Identification of HLA class II antigens as the targets of effector clones which may cause transfusion–associated graft–versus–host disease. Nishimura M, et al. **Transfus Med** 1997 Jun;7(2):89–94

Are guidelines for use of gamma irradiation for the prevention of transfusion–associated graft–versus–host disease adequate for newborns? [letter; comment] Ohto H, et al. **Transfus Med** 1997 Jun;7(2):172–3. Comment on: Transfus Med 1996 Sep;6(3):261–71.

Frequency and specificity of platelet–specific alloantibodies in HLA–immunized haematologic–oncologic patients. Schnaidt M, et al. **Transfus Med** 1996 Jun;6(2):111–4

Comparative safety of units donated by autologous, designated and allogeneic (homologous) donors [letter; comment] Whyte G, et al. **Transfus Med** 1996 Jun; 6(2):209–11. Comment on: Transfus Med 1995 Jun;5(2):91–5.

Looking back in anger: retrospection in the face of a paradigm shift [editorial] Blajchman MA, et al. **Transfus Med Rev** 1997 Jan;11(1):1–5

The incidence/window period model and its use to assess the risk of transfusion–transmitted human immunodeficiency virus and hepatitis C virus infection. Kleinman S, et al. **Transfus Med Rev** 1997 Jul;11(3):155–72 (69 ref.)

Strategies for prevention of transfusion–associated Chagas' disease. Moraes–Souza H, et al. **Transfus Med Rev** 1996 Jul;10(3):161–70 (76 ref.)

The clinical relevance of HTLV type I and II in transfusion medicine. Vrielink H, et al. **Transfus Med Rev** 1997 Jul; 11(3):173–9 (65 ref.)

Rapid identification of bacterially contaminated platelets using reagent strips: glucose and pH analysis as markers of bacterial metabolism. Burstain JM, et al. **Transfusion** 1997 Mar;37(3):255–8

Risk of iatrogenic human immunodeficiency virus infection through transfusion of blood tested by inappropriately stored or expired rapid antibody assays in a Zambian hospital. Consten EC, et al. **Transfusion** 1997 Sep; 37(9):930–4

Severe reactions associated with transfusion of patients with sickle cell disease [editorial; comment] Garratty G. **Transfusion** 1997 Apr;37(4):357–61. Comment on: Transfusion 1997 Apr;37(4):376–81. Comment on: Transfusion 1997 Apr;37(4):382–92.

Transfusion transmission of human T–lymphotropic virus type I (HTLV–I) from an asymptomatic blood donor: conservation of LTR U3, env, and tax nucleotide sequences in a recipient with HTLV–I–associated myelopathy. Gasmi M, et al. **Transfusion** 1997 Jan;37(1):60–4

Transmission of human immunodeficiency virus through blood transfusion: the use of lookback and traceback approaches to optimize recipient identification in a regional population. Gill MJ, et al. **Transfusion** 1997 May; 37(5):513–6

Delayed hemolytic transfusion reactions in sickle cell disease: simultaneous destruction of recipients' red cells [see comments] King KE, et al. **Transfusion** 1997 Apr; 37(4):376–81. Comment in: Transfusion 1997 Apr;37(4):357–61.

HIV and the blood supply: an analysis of crisis decision making. Executive summary. The Institute of Medicine, National Academy of Sciences Committee to Study HIV Transmission Through Blood and Blood Products [see comments] Leveton LB, et al. **Transfusion** 1996 Oct; 36(10):919–27. Comment in: Transfusion 1996 Oct;36(10):928–31. Comment in: Transfusion 1996 Oct;36(10):932–4.

Decrease in frequency of transfusion fatalities [letter] Linden JV, et al. **Transfusion** 1997 Feb;37(2):243–4

Prevalence of hepatitis G virus RNA in French blood donors and recipients [see comments] Loiseau P, et al. **Transfusion** 1997 Jun;37(6):645–50. Comment in: Transfusion 1997 Jun;37(6):569–72.

Donor levels of serum alanine aminotransferase activity and antibody to hepatitis B core antigen associated with recipient hepatitis C and non–B, non–C outcomes [published erratum appears in Transfusion 1997 Jan;37(1):109] Mosley JW, et al. **Transfusion** 1996 Sep; 36(9):776–81

Human immunodeficiency virus type 1 activation after blood transfusion. Mudido PM, et al. **Transfusion** 1996 Oct;

36(10):860–5
Potential usefulness of protease inhibitor and chloroquine in the treatment of transfusion-associated graft-versus-host disease [letter] Nishimura M, et al. **Transfusion** 1997 Jul; 37(7):768–70
Gamma radiation does not prevent transfusion-induced HLA alloimmunization [letter] Ohto H. **Transfusion** 1997 Aug; 37(8):878–9
The sickle cell hemolytic transfusion reaction syndrome [see comments] Petz LD, et al. **Transfusion** 1997 Apr; 37(4):382–92. Comment in: Transfusion 1997 Apr;37(4):357–61.
Transfusion-transmitted hepatitis G virus following open heart surgery [letter] Shimizu M, et al. **Transfusion** 1996 Oct;36(10):937
The association of biologically active lipids with the development of transfusion-related acute lung injury: a retrospective study. Silliman CC, et al. **Transfusion** 1997 Jul;37(7):719–26
Transfusion-transmitted kala-azar in India [letter] Singh S, et al. **Transfusion** 1996 Sep;36(9):848–9
Simultaneous occurrence of posttransfusion purpura due to anti-HPA-1a and a delayed transfusion reaction due to anti-Jk(b) [letter] Swanson JL, et al. **Transfusion** 1997 Apr; 37(4):449–50
Role of screening for hepatitis C virus in children with malignant disease and who undergo bone marrow transplantation. Tada K, et al. **Transfusion** 1997 Jun; 37(6):641–4
Leukocyte phenotypic changes in an in vitro model of ABO hemolytic transfusion reaction. Udani M, et al. **Transfusion** 1997 Sep;37(9):904–9
Blood transfusion and infection after colorectal cancer surgery. Vamvakas EC, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):1000–8 (50 ref.)
Infection with hepatitis G virus and its strain variant, the GB agent (GBV-C), among blood donors in Japan [see comments] Yoshikawa A, et al. **Transfusion** 1997 Jun; 37(6):657–63. Comment in: Transfusion 1997 Jun;37(6):569–72.
Transfusion-related hepatitis G virus infections in heart transplant recipients [letter] Wolff D, et al. **Transplantation** 1996 Dec 15;62(11):1697–8
Hepatic encephalopathy in liver transplant recipients precipitated by benzodiazepines present in transfused blood. Zeneroli ML, et al. **Transplantation** 1996 Sep 27;62(6):764–7
Epidemiology and prevention of transfusion-associated human immunodeficiency virus transmission in sub-Saharan Africa. McFarland W, et al. **Vox Sang** 1997; 72(2):85–92 (80 ref.)
Does anti-HBc reactivity reflect 'lifestyle' risk in north London blood donors? Moore MC, et al. **Vox Sang** 1997; 72(2):79–84
Human parvovirus B19 and blood products. Prowse C, et al. **Vox Sang** 1997;72(1):1–10 (128 ref.)
A prospective study of the incidence of red cell allo-immunisation following transfusion. Redman M, et al. **Vox Sang** 1996;71(4):216–20
Transmission of GB virus C by blood transfusions during heart surgery. Shimizu M, et al. **Vox Sang** 1997;72(2):76–8
Platelet alloimmunization after transfusion. A prospective study in 117 heart surgery patients. Taaning E, et al. **Vox Sang** 1997;72(4):238–41
A single unit of transfused allogeneic blood increases postoperative infections. Vignali A, et al. **Vox Sang** 1996; 71(3):170–5
[Enhancement of tumor growth after partial hepatectomy and blood transfusion] Sun J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):113–5 (Eng. Abstr.) **(Chi)**
[Leukocyte filtration in elective colorectal surgery. Reduced transfusion associated immunosuppression after bedside procedures] Jensen LS, et al. **Ugeskr Laeger** 1997 Aug 18; 159(34):5093–7 (Eng. Abstr.) **(Dan)**
[Transfusion and early infections in surgery (letter)] Janvier G, et al. **Ann Fr Anesth Reanim** 1996;15(7):1130–1 **(Fre)**
[Prevention of infections in immunosuppressed patients: prevention of post-transfusion infections] Joly V. **Ann Med Interne (Paris)** 1997;148(3):268–71 (20 ref.) (Eng. Abstr.) **(Fre)**
[Thrombocytopenia after cardiac surgery due to anti-platelet allo-immunization. Apropos of a case] Boccara F, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):107–10 (Eng. Abstr.) **(Fre)**
[Hepatitis C seropositivity after multiple transfusions in sickle cell anemia patients in Yaounde, Cameroon (letter)] Kemmegne J, et al. **Med Trop (Mars)** 1996;56(3):309–10 **(Fre)**
[Aspects of blood transfusion in Djibouti] Massenet D, et al. **Med Trop (Mars)** 1997;57(2):202–5 (Eng. Abstr.) **(Fre)**
[Improvement of transfusion safety in a health care service through the implementation of a quality program] Hergon E, et al. **Transfus Clin Biol** 1996;3(5):305–14 (12 ref.) (Eng. Abstr.) **(Fre)**
[Immuno-hemolytic transfusion reactions. III. Report of 61 cases] Le Pennec PY, et al. **Transfus Clin Biol** 1996; 3(3):157–65 (Eng. Abstr.) **(Fre)**
[The risk of transfusion-induced virus infection (news)] Mörike EM. **Dtsch Med Wochenschr** 1996 Sep 27; 121(39):A8 **(Ger)**
[The effect of blood transfusion on the late results of the surgical treatment of rectal cancer] Görög D, et al. **Orv Hetil** 1996 Aug 4;137(31):1693–8 (39 ref.) (Eng. Abstr.) **(Hun)**
[A case of leukocytosis after massive blood transfusion for postpartum hemorrhagic shock] Yamamoto T, et al. **Masui** 1997 Mar;46(3):379–83 (Eng. Abstr.) **(Jpn)**
[Post-transfusion GVHD] Ito K. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):834–8 (5 ref.) **(Jpn)**
[Post-transfusion infections] Takano S. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):829–33 (5 ref.) **(Jpn)**
[A puerperal woman received massive ABO-incompatible blood transfusion: a case report rescued by exchange transfusion therapy] Fujiki Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jul;48(7):533–6 **(Jpn)**
[Posttransfusion GVHD] Ito K. **Rinsho Ketsueki** 1996 Jun; 37(6):488–91 (13 ref.) **(Jpn)**
[Unfavorable effects of transfusion at the Japanese Red Cross Central Blood Center] Juji T. **Rinsho Ketsueki** 1997 Apr; 38(4):245–8 **(Jpn)**
[Detection of early cardiac dysfunction in patients with transfusion-dependent aplastic anemia and chronic iron overload in childhood. Stress-velocity relation as a sensitive index by echocardiography] Ohnuma K, et al. **Rinsho Ketsueki** 1996 Sep;37(9):825–32 (Eng. Abstr.) **(Jpn)**
[Consideration of blood transfusion in cardiac surgery] Ninomiya K. **Rinsho Kyobu Geka** 1988 Feb;8(1):7–11 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Neuro-fibro-liposarcoma healed by partial surgical intervention complicated by post-transfusional shock] Kuś H, et al. **Pol Merkuriusz Lek** 1996 Nov;1(5):346–7 **(Pol)**
[Trials for the use of gamma rays in the prevention of Trypanosoma cruzi transfusion infection] Amato Neto V, et al. **Rev Soc Bras Med Trop** 1996 Nov-Dec;29(6):613–4 **(Por)**
[The graft-vs-host reaction in military transfusion treatment] Shevchenko IuL, et al. **Voen Med Zh** 1997 Feb;318(2):32–5 (17 ref.) **(Rus)**
[Posttransfusion immunosuppression] Shevchenko IuL, et al. **Voen Med Zh** 1996 Oct;317(10):22–5 (19 ref.) **(Rus)**
[Transfusion aspects of viral hepatitis C] Erceg S, et al. **Med Pregl** 1996;49(9-10):394–7 (Eng. Abstr.) **(Scr)**

CONTRAINDICATIONS

Transfusion support for a patient with severe common variable immunodeficiency with anti-IgA undergoing orthotopic liver transplantation [letter] Win N, et al. **Vox Sang** 1997;72(4):251

ECONOMICS

Comment: cost comparison of recombinant human erythropoietin and blood transfusion in cancer chemotherapy-induced anemia [letter] Finkelstein SN, et al. **Ann Pharmacother** 1997 Sep;31(9):1094–5
Cost comparison of recombinant human erythropoietin and blood transfusion in cancer chemotherapy-induced anemia. Sheffield R, et al. **Ann Pharmacother** 1997 Jan;31(1):15–22 (58 ref.)
How rational is the crossmatching of blood in a pediatric emergency department? Grupp-Phelan J, et al. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1140–4
Blood substitutes: science or business? [editorial; comment] Winslow RM. **J Lab Clin Med** 1996 Aug;128(2):126–7. Comment on: J Lab Clin Med 1996 Aug;128(2):146–53.
Transfusion requirements in patients with malignancy. Aledort LM, et al. **Semin Hematol** 1996 Jan;33(1 Suppl 1):6–9
Out-of-hospital transfusion. Evans CS. **Transfusion** 1997 Jul; 37(7):756–67 (55 ref.)
[Cost-effective approach to the screening of HIV, HBV, HCV, HTLV in blood donors in France] Sailly JC, et al. **Rev Epidemiol Sante Publique** 1997 Apr;45(2):131–41 (17 ref.) (Eng. Abstr.) **(Fre)**

HISTORY

The development of blood transfusion: the contributions of Norman Bethune in the Spanish Civil War (1936–1939). Franco A, et al. **Can J Anaesth** 1996 Oct;43(10):1076–8
Blood transfusion services in the UK [see comments] Dodsworth H. **J R Coll Physicians Lond** 1996 Sep–Oct; 30(5):457–64. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):112–3.
Cold blood and clinical research during World War I. Hanigan WC, et al. **Mil Med** 1996 Jul;161(7):392–400
Fifty years of blood transfusion [see comments] Gunson HH, et al. **Transfus Med** 1996;6 Suppl 1:1–88. Comment in: Transfus Med 1997 Mar;7(1):67–9.
A short history of transfusion medicine. Greenwalt TJ. **Transfusion** 1997 May;37(5):550–63 (130 ref.)
Transfusion: the first decade. Volume 1. Greenwalt TJ. **Transfusion** 1997 Jan;37(1):91–2
TRANSFUSION: the first decade: volume 9. McCullough J. **Transfusion** 1997 Sep;37(9):971–3
TRANSFUSION: the first decade: volume 4. Oberman HA. **Transfusion** 1997 Apr;37(4):442–3
Transfusion: the first decade. Volume 5. Oberman HA. **Transfusion** 1997 May;37(5):531–2
Transfusion: the first decade: volume 6. Oberman HA. **Transfusion** 1997 Jun;37(6):668–9
Transfusion: the first decade. Volume 3. Zuck T. **Transfusion** 1997 Mar;37(3):327–8
Blood safety decisions, 1982 to 1986: perceptions and misconceptions [comment] Zuck TF, et al. **Transfusion** 1996 Oct;36(10):928–31. Comment on: Transfusion 1996 Oct;36(10):919–27.
[The first human blood transfusion in Russia taking isohemagglutination factors into account] Nechaĭ AI. **Vestn Khir Im I I Grek** 1995;154(4–6):135 **(Rus)**

INSTRUMENTATION

Factors affecting flow through blood administration sets. Stoneham MD. **Eur J Anaesthesiol** 1997 May;14(3):333–9
In-line blood/solution warmers. **Health Devices** 1996 Oct; 25(10):352–90
[The comparative effectiveness of different infusion and blood warming methods] Schmidt JH, et al. **Anaesthesist** 1996 Nov;45(11):1067–74 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Practical issues in informed consent for transfusion. Sazama K. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S72–4 (8 ref.)
Creutzfeldt-Jakob disease: current U.S. policy to further reduce the possible risk of transmission by transfusion. Menache D, et al. **Biologicals** 1996 Sep;24(3):277–83
Canadians sue over hepatitis C infection [news] Spurgeon D. **BMJ** 1997 Aug 9;315(7104):330
Chinese clamp down on blood products [news] Tomlinson R. **BMJ** 1997 Jan 11;314(7074):93
Current status of transfusion medicine in India. Bharucha ZS. **Indian J Pathol Microbiol** 1996 Oct;39(4):333–42 (7 ref.)
AIDS: safety, regulation and the law in procedures using blood and blood products. Craven BM, et al. **Med Sci Law** 1997 Jul;37(3):215–27
[Judicial liability and blood transfusion—equity, opportunity?] Hermitte MA. **Transfus Clin Biol** 1997; 4(3):321–8 (Eng. Abstr.) **(Fre)**
[Donor exclusions, discarded blood and transfusion unsuited blood conserves of 2,13 million potential blood donors 1991 to 1994] Diekamp U, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:81–92 (Eng. Abstr.) **(Ger)**
[Are we legally allowed to administer blood for lifesaving to a patient who refuses it?] Shimasaki H, et ai. **Masui** 1997 Apr;46(4):556–9 (24 ref.) (Eng. Abstr.) **(Jpn)**

METHODS

Splenic regrowth in sickle cell anaemia following hypertransfusion. Campbell PJ, et al. **Br J Haematol** 1997 Jan;96(1):77–9
New therapies and approaches to transfusion in sickle cell disease in children. Styles LA, et al. **Curr Opin Pediatr** 1997 Feb;9(1):41–5 (32 ref.)
Rationale and strategy for utilization of available blood in transfusion practice—an overview. Khurana SK, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):343–54 (30 ref.)
Role of quality assessment in improving red blood cell transfusion practice. Joshi G, et al. **Ir J Med Sci** 1997 Jan–Mar;166(1):16–9
Potential effectiveness of stored cord blood (non-frozen) for emergency use. Ende N, et al. **J Emerg Med** 1996 Nov-Dec;14(6):673–7
Haemodynamic effects of differing blood transfusion rates in infants less than 1500 g. Nosè Y, et al. **J Paediatr Child Health** 1996 Apr;32(2):177–82
Blood transfusion during heparin-free hemodialysis. Sepulveda S, et al. **Kidney Int** 1997 Jun;51(6):2018–21
Randomised comparison of leucocyte-depleted versus buffy-coat-poor blood transfusion and complications after colorectal surgery [see comments] Jensen LS, et al. **Lancet** 1996 Sep 28;348(9031):841–5. Comment in: Lancet 1996 Dec 14;348(9042):1665–6.
Use of unrefrigerated fresh whole blood in massive transfusion [letter; comment] Graham PW. **Med J Aust** 1996 Nov 4;165(9):525; discussion 526. Comment on: Med J Aust 1996 Jul 1;165(1):11–3.
Use of unrefrigerated fresh whole blood in massive transfusion [letter; comment] Hays RB. **Med J Aust** 1996 Nov 4;165(9):525; discussion 526. Comment on: Med J Aust 1996 Jul 1;165(1):11–3.
Use of unrefrigerated fresh whole blood in massive transfusion [letter; comment] Hodge AJ. **Med J Aust** 1996 Nov 4;165(9):525–6. Comment on: Med J Aust 1996 Jul 1;165(1):9–10. Comment on: Med J Aust 1996 Jul 1;165(1):11–3.
Use of unrefrigerated fresh whole blood in massive transfusion [letter; comment] Street AM, et al. **Med J Aust** 1996 Nov 4;165(9):525. Comment on: Med J Aust 1996 Jul 1;165(1):11–3.
Consensus statement: using epoetin alfa to decrease the risk of allogeneic blood transfusion in the surgical setting. Roundtable of Experts in Surgery Blood Management. Messmer K. **Semin Hematol** 1997 Apr;33(2 Suppl 2):78–80 (0 ref.)
Allogeneic vs. autologous blood transfusion: can a meta-analysis shed any light? [editorial; comment] Stewart LA. **Transfus Med** 1996 Dec;6(4):303–6. Comment on:

Transfus Med 1996 Dec;6(4):325–8.
Invasive line placement in critically ill patients: do hemostatic defects matter? DeLoughery TG, et al. **Transfusion** 1996 Sep;36(9):827–31
Analysis of human plasma products: polymerase chain reaction does not discriminate between live and inactivated viruses. Hilfenhaus J, et al. **Transfusion** 1997 Sep; 37(9):935–40
Intraoperative bleeding: a mathematical model for minimizing hemoglobin loss. Smetannikov Y, et al. **Transfusion** 1996 Sep;36(9):832–5
Influence of the red blood cell preparation method on the efficacy of a leukocyte reduction filter. Alcorta I, et al. **Vox Sang** 1996;71(2):78–83
The role of decision analysis in transfusion medicine. AuBuchon JP. **Vox Sang** 1996;71(1):1–5
Testing plasma pools for markers of viral contamination: the UK experience. Ferguson M, et al. **Vox Sang** 1996; 71(1):21–6
Computerized delivery control--a useful and safe complement to the type and screen compatibility testing. Säfwenberg J, et al. **Vox Sang** 1997;72(3):162–8
[Aspects of blood transfusion in Djibouti] Massenet D, et al. **Med Trop (Mars)** 1997;57(2):202–5 (Eng. Abstr.) **(Fre)**

MORTALITY

Decrease in frequency of transfusion fatalities [letter] Linden JV, et al. **Transfusion** 1997 Feb;37(2):243–4

NURSING

Blood administration in perioperative settings. Craig V, et al. **AORN J** 1997 Jul;66(1):133–8, 140–3 (55 ref.)

PSYCHOLOGY

What went wrong: multiple perspectives on an adolescent's decision to refuse blood transfusions [see comments] Lawry K, et al. **Clin Pediatr (Phila)** 1996 Jun;35(6):317–21. Comment in: Clin Pediatr (Phila) 1996 Jun;35(6):327–8.

STANDARDS

Tools for improving quality in the transfusion service. Berte LM. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S36–42 (30 ref.)
Practical use of computerized hospital information systems to improve blood transfusion. Butch SH. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S50–6 (7 ref.)
Fellowship training programs in blood banking and transfusion medicine: results of a national survey. Domen RE, et al. **Am J Clin Pathol** 1996 Nov;106(5):584–7
Practical aspects of out-of-hospital transfusion. Fridey JL. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S64–71 (23 ref.)
Practical approaches to improve laboratory performance and transfusion safety. Galel SA, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S43–9 (19 ref.)
Practical aspects of the self-assessment of the issue and administration of blood: a review of two hospitals' experiences. Shulman IA, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S17–22 (13 ref.)
Practical methods to improve transfusion safety by using novel blood unit and patient identification systems. Wenz B, et al. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S12–6 (26 ref.)
What is the transfusion trigger? What is the message? [letter] Miller RD. **Anesthesiology** 1997 Mar;86(3):750
Perioperative blood transfusion: a plea for guidelines. Sudhindran S. **Ann R Coll Surg Engl** 1997 Jul;79(4):299–302
Analysis of quality assurance programmes for HIV screening in blood transfusion centres in Delhi. Dhingra-Kumar N, et al. **Bull World Health Organ** 1997;75(3):223–8
Minority minors and moral research medicine. Bonkovsky FO. **Camb Q Healthc Ethics** 1997 Winter;6(1):39–47
RBC aliquot collection as a method for collecting, storing and issuing multiple aliquots of PRBC for pediatric transfusion [letter] Valbonesi M, et al. **Int J Artif Organs** 1996 Oct;19(10):617–9
Blood transfusion quality improvement project findings. McIlwain JS. **J Miss State Med Assoc** 1997 May; 38(5):186–7
National audit of the quality of the clinical blood transfusion process. New audit measures for good practice in blood transfusion medicine. Hartigan G. **J R Coll Physicians Lond** 1996 Jan–Feb;30(1):36
A quality improvement team on autologous and directed-donor blood availability. Allison MJ, et al. **Jt Comm J Qual Improv** 1996 Dec;22(12):801–10
HTLV-I and blood safety: let the community decide [editorial; comment] Kaldor JM. **Med J Aust** 1997 May 5;166(9):454–5. Comment on: Med J Aust 1997 May 5;166(9):478–81.
AIDS: safety, regulation and the law in procedures using blood and blood products. Craven BM, et al. **Med Sci Law** 1997 Jul;37(3):215–27
Autologous blood: really suitable for homologous use? [letter; comment] Caspari G, et al. **Transfus Med** 1996 Sep; 6(3):292–3. Comment on: Transfus Med 1995 Dec;5(4):303–4.
More on the R0 Har antigenic complex [letter; comment] Case J. **Transfusion** 1996 Nov–Dec;36(11–12):1034–5. Comment on: Transfusion 1996 Feb;36(2):104–8.
Effectiveness of a prospective physician self-audit transfusion-monitoring system. Lam HT, et al. **Transfusion** 1997 Jun;37(6):577–84
Suitability of preadmission blood samples for pretransfusion testing in elective surgery. Marosszeky S, et al. **Transfusion** 1997 Sep;37(9):910–2
Icteric plasma suggests Gilbert's syndrome in the blood donor. Naiman JL, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):974–8
Whither the blood products advisory committee? [comment] Sayers MH. **Transfusion** 1996 Oct;36(10):932–4. Comment on: Transfusion 1996 Oct;36(10):919–27.
Danish recommendations for the transfusion of leukocyte-depleted blood components. The Danish Society of Clinical Immunology. **Vox Sang** 1996;70(3):185–6
International forums--an Australian perspective [letter] Ford DS. **Vox Sang** 1996;70(4):239–40
ISBT working party on transmissible diseases: report on the workshop 'infectious-disease testing and quality control' [letter] van der Poel C, et al. **Vox Sang** 1996;70(1):53–60
Role of the blood transfusion service in tissue banking. Warwick RM, et al. **Vox Sang** 1996;71(2):71–7 (42 ref.)
[Blood transfusion in France and elsewhere (editorial)] de Micco P. **Med Trop (Mars)** 1996;56(2):139–40 **(Fre)**
[The direct antiglobulin and elution tests: evaluation of quality control in Blood Transfusion Centers] Devignes J, et al. **Transfus Clin Biol** 1996;3(4):241–6 (Eng. Abstr.) **(Fre)**
[Assessment of 32 months of continuous control of detection kits for anti-HIV and anti-HTLV antibodies and Hbs antigen used most commonly in transfusion biology. Retrovirus Study Group and Viral Hepatitis Study Group] North ML, et al. **Transfus Clin Biol** 1997;4(2):185–201 (Eng. Abstr.) **(Fre)**
[The importance of quality of whole blood and erythrocyte concentrates for autologous transfusion. A literature survey and meta-analysis of in vivo erythrocyte recovery (see comments)] Karger R, et al. **Anaesthesist** 1996 Aug; 45(8):694–707 (Eng. Abstr.). Comment in: Anaesthesist 1997 May;46(5):459–61. **(Ger)**
[A safety program for blood transfusion therapy (editorial)] Vorob'ev AI, et al. **Ter Arkh** 1996;68(7):5–8 **(Rus)**
[Ways to improve the transfusion support of surgical hospitals under current conditions] Danil'chenko VV, et al. **Vestn Khir Im I I Grek** 1996;155(4):67–9 (Eng. Abstr.) **(Rus)**
[Great safety in Scandinavian blood handling (editorial)] Högman CF. **Nord Med** 1996 Sep;111(7):210–1 **(Swe)**
[Various methods for good blood supply in Scandinavia] Oldinger E. **Nord Med** 1996 Sep;111(7):212–8 **(Swe)**

STATISTICS & NUMERICAL DATA

Transfusion needs in hip and knee arthroplasty. Kurdy NM. **Ann Chir Gynaecol** 1996;85(1):86–9
Reduction in costs, blood products, and operating time in patients undergoing open heart surgery. Lazzara RR, et al. **Arch Surg** 1997 Aug;132(8):858–60; discussion 861
Use of donor blood in the surgical setting potentials for application of blood substitutes. Greenburg AG, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):25–9 (7 ref.)
HIV infection transmitted through blood product treatment, blood transfusion, and tissue transplantation. Mortimer JY, et al. **Commun Dis Rep CDR Rev** 1997 Aug 22;7(9):R130–2
Sexually-transmitted disease (STD) markers in multitransfused children in relation to human immunodeficiency virus type-1 (HIV-1) infection: impact of STD markers in blood donors. Chattopadhya D, et al. **J Trop Pediatr** 1997 Jun;43(3):178–81
Influence of technique of percutaneous tract creation on incidence of renal hemorrhage. Davidoff R, et al. **J Urol** 1997 Apr;157(4):1229–31
Incidence of post-transfusion hepatitis in Taiwan before and after introduction of anti-HCV testing. Chang TT, et al. **Liver** 1996 Jun;16(3):201–6
Blood demand in a teaching Hospital in Ghana. Acquaye JK, et al. **West Afr J Med** 1997 May–Jun;16(2):97–101
[Collection and utilization of plasma in Austria: on the way to national self-sufficiency] Bergmann H, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:103–10 (Eng. Abstr.) **(Ger)**
[Chronic transfusion hepatitis--an underestimated disease] Henschel M, et al. **Med Klin** 1996 Jul 15;91(7):438–41 (Eng. Abstr.) **(Ger)**

TRENDS

Future perspectives in blood transfusion. Waschke KF, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:143–7
Blood transfusion options: improving outcomes and reducing costs. AuBuchon JP. **Arch Pathol Lab Med** 1997 Jan; 121(1):40–7 (79 ref.)
Current status of transfusion medicine in India. Bharucha ZS. **Indian J Pathol Microbiol** 1996 Oct;39(4):333–42 (7 ref.)
Optimising the safety of blood products [editorial; comment] Pauli G. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):122–3. Comment on: Infusionsther Transfusionsmed 1996 Jun;23(3):124–30.
[Cooperation between the clinic and transfusion medicine (editorial)] Sachs V. **Infusionsther Transfusionsmed** 1995 Oct;22(5):272–3 **(Ger)**
[Blood donation: a constantly evolving concept (editorial; comment)] Gimeno JJ, et al. **Sangre (Barc)** 1996 Dec; 41(6):413–6. Comment on: Sangre (Barc) 1996 Dec;41(6):427–40. **(Spa)**
[Everyone and nobody has the responsibility for the future of plasma products (letter)] Sjölin S. **Lakartidningen** 1996 Nov 13;93(46):4137, 4139 **(Swe)**

UTILIZATION

Perioperative transfusion strategies: a national survey among anaesthetists. Loo S, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):193–9
Surgical blood-ordering schedules for elective aortic aneurysm repair. The Scottish Vascular Audit Group. Milne AA, et al. **Br J Surg** 1997 Mar;84(3):331–2
Blood transfusion requirements in intracapsular femoral neck fractures. Levi N. **Injury** 1996 Dec;27(10):709–11
Impact of therapy with epoetin alfa on clinical outcomes in patients with nonmyeloid malignancies during cancer chemotherapy in community oncology practice. Procrit Study Group. Glaspy J, et al. **J Clin Oncol** 1997 Mar; 15(3):1218–34
Back to basics. Burns CD. **J Ky Med Assoc** 1996 May; 94(5):203
Admission base deficit predicts transfusion requirements and risk of complications [see comments] Davis JW, et al. **J Trauma** 1996 Nov;41(5):769–74. Comment in: J Trauma 1997 Mar;42(3):571–3.
Preoperative autologous blood donation and plateletpheresis in patients undergoing elective cardiac operations--factors that influence the need for homologous blood transfusion. Iguchi A, et al. **Jpn Circ J** 1997 Mar;61(3):236–40
A prospective study of the application of transfusions in a field hospital during the war in Croatia. Horzic M, et al. **Mil Med** 1996 Feb;161(2):89–91
Use of blood products in cardiac surgery. Renton MC, et al. **Perfusion** 1997 May;12(3):157–62
An audit to assess the impact of a strategy to reduce inappropriate red cell transfusions at Honiara Hospital. Lucas RE, et al. **Trop Doct** 1997 Apr;27(2):97–9
[Effective utilization of blood in hospitals] Omokawa S. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):871–8 (6 ref.) **(Jpn)**

VETERINARY

Pressure on blood supplies [news] **Aust Vet J** 1996 Aug; 74(2):101
Transmission of visceral leishmaniasis by blood transfusion in hamsters. Palatnik-de-Sousa CB, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1311–5
Serratia marcescens contamination of feline whole blood in a hospital blood bank. Hohenhaus AE, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):794–8

BLOOD TRANSFUSION, AUTOLOGOUS

Autologous blood transfusion: preoperative blood collection and blood salvage techniques. Bengtsson A, et al. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 2):1041–56 (120 ref.)
Leucocyte depletion filter removes cancer cells in human blood. Kongsgaard UE, et al. **Acta Anaesthesiol Scand** 1996 Jan;40(1):118–20
Survival of autotransfused red cells. 51Cr studies in 10 knee arthroplasty patients. Grønborg H, et al. **Acta Orthop Scand** 1996 Oct;67(5):439–42
Use of a PFC-based oxygen carrier to lower the transfusion trigger in a canine model of hemodilution and surgical blood loss. Batra S, et al. **Adv Exp Med Biol** 1997; 411:377–81
The efficacy and safety of blood reinfusion in avoiding homologous transfusion after total knee arthroplasty. Dalén T, et al. **Am J Knee Surg** 1996 Summer;9(3):117–20
Evolving concepts in autologous blood procurement and transfusion: case reports of perisurgical anemia complicated by myocardial infarction. Goodnough LT, et al. **Am J Med** 1996 Aug 26;101(2A):33S–37S (30 ref.)
Improving the efficacy of preoperative autologous blood donation in patients with low hematocrit: a randomized, double-blind, controlled trial of recombinant human erythropoietin. Price TH, et al. **Am J Med** 1996 Aug 26; 101(2A):22S–27S
Laparoscopic examination of the traumatized spleen with blood salvage for autotransfusion. Collin GR, et al. **Am Surg** 1997 Jun;63(6):478–80
Transfusion of autologous, hydroxyethyl starch-cryopreserved red blood cells. Horn EP, et al. **Anesth Analg** 1997 Oct;85(4):739–45
Perioperative autologous transfusion service: a logical extension of our role in the operating room [letter] Zauder HL. **Anesthesiology** 1997 Aug;87(2):458–9
Re: Is blood transfusion necessary in reduction mammaplasty patients? [letter; comment] Au VK. **Ann Plast Surg** 1996 Dec;37(6):680. Comment on: Ann Plast Surg 1996 Jul;37(1):116–8.
Intraoperative autologous blood donation preserves red cell mass but does not decrease postoperative bleeding. Helm RE, et al. **Ann Thorac Surg** 1996 Nov;62(5):1431–41 (25 ref.)
Coronary artery bypass in a patient with pernicious anemia

[letter] Sakakibara Y, et al. **Ann Thorac Surg** 1997 Jan; 63(1):303

Cardiac enzymes and autotransfusion of shed mediastinal blood after myocardial revascularization. Schmidt H, et al. **Ann Thorac Surg** 1997 May;63(5):1288–92

Role of intraoperative autotransfusion after cardiopulmonary bypass [letter; comment] Whitten CW. **Ann Thorac Surg** 1997 May;63(5):1513–4. Comment on: Ann Thorac Surg 1996 Mar;61(3):900–3.

Treatment of lymphoid cell malignancy with In–114m labelled autologous lymphocytes. Sharma HL, et al. **Anticancer Res** 1997 May–Jun;17(3B):1815–21

Development and implementation of a perioperative autologous service program. Specht MD, et al. **AORN J** 1997 Sep;66(3):486, 489–92

Evaluation of patients with retinitis pigmentosa receiving electric stimulation, ozonated blood, and ocular surgery in Cuba [letter; comment] Peláez O. **Arch Ophthalmol** 1997 Jan;115(1):133–4. Comment on: Arch Ophthalmol 1996 May;114(5):560–3.

Intravenous vs. oral iron supplementation during autologous blood donation. Gesemann M, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:180–3

Influence of hemodilution on cefuroxime levels and bacterial contamination of intra– and postoperative processed wound blood during hip replacement. Wollinsky KH, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:191–5

Allogeneic bone marrow transplantation versus autologous stem cell transplantation in multiple myeloma: a retrospective case–matched study from the European Group for Blood and Marrow Transplantation. Björkstrand BB, et al. **Blood** 1996 Dec 15;88(12):4711–8

Autologous blood and cardiac surgery [letter] Pinkerton PH, et al. **Can J Anaesth** 1996 Nov;43(11):1180

Bovine haemoglobin is more potent than autologous red blood cells in restoring muscular tissue oxygenation after profound isovolaemic haemodilution in dogs [see comments] Standl T, et al. **Can J Anaesth** 1996 Jul; 43(7):714–23. Comment in: Can J Anaesth 1996 Jul;43(7):647–52.

Release of interleukin 6 and activation of complement during and after paediatric cardiopulmonary bypass. Effect of autotransfusion of shed mediastinal blood and ultrafiltration. Saatvedt K, et al. **Cytokine** 1996 May; 8(5):417–20

Epoetin alfa facilitates presurgical autologous blood donation in non–anaemic patients scheduled for orthopaedic or cardiovascular surgery. Cazenave JP, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):432–42

High–dose melphalan with re–infusion of unprocessed, G–CSF–primed whole blood is effective and non–toxic therapy in multiple myeloma. Ossenkoppele GJ, et al. **Eur J Cancer** 1996 Nov;32A(12):2058–63

A prospective randomised controlled trial of postoperative autotransfusion with and without a heparin–bonded circuit. Unsworth–White MJ, et al. **Eur J Cardiothorac Surg** 1996; 10(1):38–47

Giving both enoxaparin and dextran increases the need for transfusion in revision hip arthroplasty. Lisander B, et al. **Eur J Surg** 1996 Nov;162(11):861–6

Transfusion of child's own blood. Kemmotsu H, et al. **Indian Pediatr** 1995 Oct;32(10):1139–40

The Fresenius continuous autotransfusion system (CATS): preliminary studies and application. Florio G, et al. **Int J Artif Organs** 1996 Jul;19(7):431–4

Intraoperative blood salvage in abdominal uterine myomectomy. Yamada T, et al. **Int J Gynaecol Obstet** 1997 Feb;56(2):141–5

Minimizing homologous blood use: the autotransfuser to the rescue [editorial; comment] Hubbard KP. **J Am Osteopath Assoc** 1996 Mar;96(3):157–8. Comment on: J Am Osteopath Assoc 1996 Mar;96(3):160–4.

Autotransfusion after total knee arthroplasty. Effects on blood cells, plasma chemistry, and whole blood rheology. Dalén T, et al. **J Arthroplasty** 1997 Aug;12(5):517–25

Postoperative blood salvage and reinfusion after total joint arthroplasty. Han CD, et al. **J Arthroplasty** 1997 Aug; 12(5):511–6

The clinical advantages of autologous transfusion. A randomized, controlled study after knee replacement. Newman JH, et al. **J Bone Joint Surg Br** 1997 Jul; 79(4):630–2

Enhanced blood conservation in primary coronary artery bypass surgery using heparin–bonded circuits with lower anticoagulation. Aldea GS, et al. **J Card Surg** 1996 Mar–Apr;11(2):85–95

Reinfusion of mediastinal blood in CABG patients: impact on homologous transfusions and rate of re–exploration. de Varennes B, et al. **J Card Surg** 1996 Nov–Dec;11(6):387–95

Enhanced blood conservation and improved clinical outcome after valve surgery using heparin–bonded cardiopulmonary bypass circuits. Shapira OM, et al. **J Card Surg** 1996 Sep–Oct;11(5):307–17

Blood conservation in small adults undergoing valve surgery. Tempe D, et al. **J Cardiothorac Vasc Anesth** 1996 Jun; 10(4):502–6

Shed mediastinal blood in 500 elective cardiac surgery patients: is there enough for retransfusion routinely? Schirmer U, et al. **J Cardiovasc Surg (Torino)** 1997 Feb; 38(1):45–50

Daily measurements of blood CD34+ cells after stem cell mobilization predict stem cell yield and posttransplant hematopoietic recovery. Remes K, et al. **J Hematother** 1997 Feb;6(1):13–9

Cytomegalovirus monitoring by polymerase chain reaction of whole blood samples from patients undergoing autologous bone marrow or peripheral blood progenitor cell transplantation. Hebart H, et al. **J Infect Dis** 1997 Jun; 175(6):1490–3

Predeposited autologous blood transfusion (PABT) for general surgery in infants and children [letter; comment] Mayer MN, et al. **J Pediatr Surg** 1996 Feb;31(2):328. Comment on: J Pediatr Surg 1995 May;30(5):659–61.

Autologous blood transfusion. **J R Coll Physicians Lond** 1996 Jan–Feb;30(1):76

Resuscitation from hemorrhagic shock with diaspirin cross–linked hemoglobin, blood, or hetastarch. DeAngeles DA, et al. **J Trauma** 1997 Mar;42(3):406–12; discussion 412–4

Erythropoietin therapy. Goodnough LT, et al. **N Engl J Med** 1997 Mar 27;336(13):933–8 (56 ref.)

Autologous blood transfusion [letter] Mehrotra R. **Natl Med J India** 1997 Jan–Feb;10(1):46–7

Recombinant human erythropoietin (epoetin) and autologous blood transfusion in chronic haemodialysed patients: two observations [letter] Montagnac R, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):854

Demyelinating brachial neuropathy complicating syngeneic graft–versus–host disease. Yoshiyama Y, et al. **Neurology** 1997 Jan;48(1):287–8

Intraoperative autologous blood transfusion in intracranial surgery. Cataldi S, et al. **Neurosurgery** 1997 Apr; 40(4):765–71; discussion 771–2

Intraoperative autologous blood transfusion in the surgical correction of craniosynostosis [letter; comment] Meyer P, et al. **Neurosurgery** 1996 Jul;39(1):213. Comment on: Neurosurgery 1995 Dec;37(6):1075–9.

Clinical usefulness of autologous transfusion––history, methodologies and problems with popularization. Inaba S. **Nippon Rinsho** 1997 Jul;55(7):1861–70 (28 ref.)

The Bridgeport Hospital experience with autologous transfusion in orthopedic surgery. Bernstein LH, et al. **Orthopedics** 1997 Aug;20(8):677–80

Open heart surgery in the pediatric Jehovah's Witness population: no longer "Russian roulette" [letter] Rosengart TK, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):245–6

Cell saver efficacy for routine coronary artery bypass surgery. Sakert T, et al. **Perfusion** 1996 Jan;11(1):71–7

Routine autologous blood use in reduction mammaplasty not suggested [letter; comment] Lefkovits G. **Plast Reconstr Surg** 1996 Dec;98(7):1317. Comment on: Plast Reconstr Surg 1996 Apr;97(5):1084–5.

Epoetin alfa as an adjunct to autologous blood donation in patients with a low hematocrit scheduled for elective orthopedic surgery. Adamson J. **Semin Hematol** 1996 Apr; 33(2 Suppl 2):15–6; discussion 17

Autologous blood donation with recombinant human erythropoietin in cardiac surgery: the Japanese experience. Baron JF. **Semin Hematol** 1996 Apr;33(2 Suppl 2):64–7; discussion 68 (9 ref.)

Autologous blood donation plus epoetin alfa in nonanemic orthopedic surgery patients. Baudoux E. **Semin Hematol** 1996 Apr;33(2 Suppl 2):31–2; discussion 33

Epoetin alfa as an adjuvant to autologous blood donation. Beris P. **Semin Hematol** 1996 Apr;33(2 Suppl 2):27–9; discussion 30 (3 ref.)

Epoetin alfa: new directions in orthopedic surgery. Beris P. **Semin Hematol** 1996 Apr;33(2 Suppl 2):60–2; discussion 63 (7 ref.)

Epoetin alfa: new directions in orthopedic surgery. Beris P. **Semin Hematol** 1997 Apr;33(2 Suppl 2):60–2; discussion 63

Subcutaneous epoetin alfa as an adjunct to autologous blood donation before elective coronary artery bypass graft surgery. Gombotz H. **Semin Hematol** 1996 Apr;33(2 Suppl 2):69–70; discussion 71–2

Autologous blood donation and epoetin alfa in cancer surgery. Jeekel J. **Semin Hematol** 1996 Apr;33(2 Suppl 2):43–6; discussion 47 (13 ref.)

Potential of epoetin alfa in patients in autologous blood donation programs for orthopedic surgery. McClelland B. **Semin Hematol** 1996 Apr;33(2 Suppl 2):2–3; discussion 4 (10 ref.)

Epoetin alfa for autologous blood donation in patients with rheumatoid arthritis and concomitant anemia. Mercuriali F. **Semin Hematol** 1996 Apr;33(2 Suppl 2):18–20; discussion 21 (9 ref.)

Epoetin alfa increases the volume of autologous blood donated by patients scheduled to undergo orthopedic surgery. Mercuriali F. **Semin Hematol** 1996 Apr;33(2 Suppl 2):10–2; discussion 13–4

Epoetin alfa for autologous blood donation in patients with rheumatoid arthritis and concomitant anemia. Mercuriali F. **Semin Hematol** 1997 Apr;33(2 Suppl 2):18–20; discussion 21

Consensus statement: using epoetin alfa to decrease the risk of allogeneic blood transfusion in the surgical setting. Roundtable of Experts in Surgery Blood Management. Messmer K. **Semin Hematol** 1996 Apr;33(2 Suppl 2):78–80

Enhanced efficacy of autologous blood donation with epoetin alfa. Nydegger U. **Semin Hematol** 1996 Apr;33(2 Suppl 2):39–40; discussion 41–2

Epoetin alfa plus autologous blood donation and normovolemic hemodilution in patients scheduled for orthopedic or vascular surgery. Tryba M. **Semin Hematol** 1996 Apr;33(2 Suppl 2):34–6; discussion 37–8

Epoetin alfa plus autologous blood donation in patients with a low hematocrit scheduled to undergo orthopedic surgery. Tryba M. **Semin Hematol** 1996 Apr;33(2 Suppl 2):22–4; discussion 25–6

Use of epoetin alfa in autologous blood donation programs for patients scheduled for elective cardiac surgery. Walpoth B, et al. **Semin Hematol** 1996 Apr;33(2 Suppl 2):75–6; discussion 77

The quality of autotransfused chest–drainage blood after cardiac surgery: a study of coagulation factors. Schulze HJ, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):183–7

Blood spillage during salvage. Bengtson JP, et al. **Transfus Med** 1997 Jun;7(2):101–6

Autologous blood: really suitable for homologous use? [letter; comment] Caspari G, et al. **Transfus Med** 1996 Sep; 6(3):292–3. Comment on: Transfus Med 1995 Dec;5(4):303–4.

Length of survival after perioperative transfusion. Vamvakas EC, et al. **Transfus Med** 1997 Jun;7(2):115–21

Recombinant human erythropoietin as adjuvant treatment for autologous blood donation in elective surgery with large blood needs (> or = 5 units): a randomized study. de Pree C, et al. **Transfusion** 1997 Jul;37(7):708–14

A point score system for predicting the likelihood of blood transfusion after hip or knee arthroplasty. Larocque BJ, et al. **Transfusion** 1997 May;37(5):463–7

Large–volume apheresis for the harvest of peripheral blood progenitor cells for autologous transplantation. Smolowicz AG, et al. **Transfusion** 1997 Feb;37(2):188–92

Autotransfusion and ectopic pregnancy: an experience from Tanzania. Jongen VH. **Trop Doct** 1997 Apr;27(2):78–9

Autologous blood donation prior to anatomical radical retropubic prostatectomy: is it necessary? Goh M, et al. **Urology** 1997 Apr;49(4):569–73; discussion 574

Autologous blood procurement in the surgical setting: lessons learned in the last 10 years. Goodnough LT, et al. **Vox Sang** 1996;71(3):133–41 (75 ref.)

Response of the erythron and erythropoietin to autologous blood donations in paediatric subjects. Is erythropoietin supplement necessary? Han P, et al. **Vox Sang** 1997; 73(1):24–7

Autologous blood donation for elective surgery in children weighing 8–25 kg. Mayer MN, et al. **Vox Sang** 1996; 70(4):224–8

Royal College of Physicians, Edinburgh: final consensus statement. Consensus Conference on Autologous Transfusion, 4–6 October, 1995. Thomas MJ. **Vox Sang** 1996;70(3):183–4

[Programmed autologous blood transfusion in children. Results of a national survey] Le Rolle T, et al. **Ann Fr Anesth Reanim** 1996;15(5):595–8 (Eng. Abstr.) **(Fre)**

[Erythrocytapheresis a few weeks before surgery: an alternative to erythropoietin treatment in programmed autologous transfusion] Bernière J, et al. **Cah Anesthesiol** 1996;44(4):303–8 (Eng. Abstr.) **(Fre)**

[Recombinant human erythropoietin (epoetin) and autologous blood transfusion in chronic hemodialysis. Apropos of 2 cases] Montagnac R, et al. **Nephrologie** 1997;18(1):23–6 (Eng. Abstr.) **(Fre)**

[Advantages and limitations of intraoperative mechanical autotransfusion in al prostatectomies] Jacobi K, et al. **Anaesthesist** 1997 Feb;46(2):101–7 (Eng. Abstr.) **(Ger)**

[Results of autologous blood donation in orthopedic hip and knee joint replacement] Adams HA, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 May; 32(5):283–90 (Eng. Abstr.) **(Ger)**

[Effectiveness of autologous blood donation in coronary surgery––a retrospective analysis] Kulka PJ, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 May; 32(5):291–7 (Eng. Abstr.) **(Ger)**

[Advanced age––a risk factor in autologous blood donation?] Beck KH, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:206–9 (Eng. Abstr.) **(Ger)**

[Autologous blood donation with preliminary erythropoietin stimulation] Sipurzynski–Budrass S, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:201–5 (Eng. Abstr.) **(Ger)**

[Elimination of hydroxyethyl starch after autologous retransfusion of cryopreserved erythrocytes] Sputtek A, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:215–9 (Eng. Abstr.) **(Ger)**

[Expanded serologic infection testing of autologous blood donors: a report of experiences] Zimmermann R, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:196–200 (Eng. Abstr.) **(Ger)**

[The role of rhErythropoietin in the framework of methods avoiding donor blood] **Chirurg** 1994 Apr;65(4 Suppl):1–8 **(Ger)**

[Iron homeostasis in preoperative autologous blood donation] Weisbach V, et al. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):161–70 (84 ref.) (Eng. Abstr.) **(Ger)**

[Is there an indication for intravenous iron replacement in, for example, by autologous blood donation–induced iron deficiency and is there a theoretically possible indication for intravenous administration for the not approved Ferrum Hausmann preparation?] Kruse HJ, et al. **Internist (Berl)** 1996 Oct;37(10):1059 **(Ger)**

[Intraoperative autotransfusion and use of cell saver systems] Schmandra TC, et al.

Langenbecks Arch Chir Suppl Kongressbd 1996;113:139–42 (Eng. Abstr.) **(Ger)**

[Autologous blood donation--good clinical practice and good recuperation practice] Hauser SP, et al. **Schweiz Med Wochenschr** 1996 Nov 16;126(46):1970–4 (Eng. Abstr.) **(Ger)**

[The need for blood transfusions in elective colon surgery--is preoperative autotransfusion useful?] Spalinger R, et al. **Swiss Surg** 1996;2(5):208–11 (Eng. Abstr.) **(Ger)**

[Geriatric orthopedic treatment of Jehovah's Witnesses?] Schulz R, et al. **Versicherungsmedizin** 1997 Apr 1;49(2):52–5 (Eng. Abstr.) **(Ger)**

[Autologous transfusion in total hip endoprosthesis--a clinical concept] Bang-Vojdanovski B, et al. **Z Orthop Ihre Grenzgeb** 1997 May–Jun;135(3):252–7 (Eng. Abstr.) **(Ger)**

[The effect of blood transfusion on the late results of the surgical treatment of rectal cancer] Görög D, et al. **Orv Hetil** 1996 Aug 4;137(31):1693–8 (39 ref.) (Eng. Abstr.) **(Hun)**

[Autotransfusion of the blood drained from mediastinum in the course of myocardial revascularization] Fragnito C, et al. **Acta Biomed Ateneo Parmense** 1995;66(5):195–201 (Eng. Abstr.) **(Ita)**

[Preoperative blood storage and intraoperative blood recovery in elective treatment of abdominal aorta aneurysm] Tedesco M, et al. **Ann Ital Chir** 1996 May–Jun; 67(3):399–403 (Eng. Abstr.) **(Ita)**

[Use of autotransfusion in prosthetic surgery of the abdominal aorta] Tridico F, et al. **Minerva Cardioangiol** 1996 Sep; 44(9):461–6 (Eng. Abstr.) **(Ita)**

[Hemorheological effects of autologous blood storage before surgery for cardiac valvular diseases] Ichikawa H, et al. **J Cardiol** 1997;29 Suppl 2:37–40 (Eng. Abstr.) **(Jpn)**

[Preoperative autologous blood donation in patients with malignant tumors of the head and neck region] Ogawa K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Feb; 99(2):286–91 (Eng. Abstr.) **(Jpn)**

[Postoperative follow-up results of patients with non-small cell lung cancer (stage I) who received autologous blood transfusion] Kikuchi K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):315–6 **(Jpn)**

[Transfusion of autologous deposited blood in support of surgery for cerebral aneurysm evaluated by screening for occult intracranial disease] Ozawa T, et al. **No Shinkei Geka** 1997 Apr;25(4):345–7 (Eng. Abstr.) **(Jpn)**

[Analysis of mechanism of increased platelet counts during preoperative autologous blood donation] Dowaki Y, et al. **Rinsho Byori** 1997 Jan;45(1):72–6 (Eng. Abstr.) **(Jpn)**

[Autotransfusion on surgery] Fuji T. **Ryumachi** 1996 Jun; 36(3):592–7 (13 ref.) **(Jpn)**

[Postoperative autologous transfusion in primary hip arthroplasties] Johansen S, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2766–8 (Eng. Abstr.) **(Nor)**

[Preoperative autotransfusion and hemodilution and its value in reconstructive vascular surgery] Pukacki F, et al. **Wiad Lek** 1996;49(1–6):26–35 (Eng. Abstr.) **(Pol)**

[Advantages, hazards and prospects of using autologous blood in aortocoronary bypass surgery] Dement'eva II. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):87–90 (68 ref.) **(Rus)**

[Biological and clinical effects of violet and blue light] Karandashov VI, et al. **Biull Eksp Biol Med** 1997 Apr; 123(4):452–4 **(Rus)**

[The use of autologous blood and plasma transfusions in patient combined treatment] Starikov AV, et al. **Klin Khir** 1996;(7):5–7 **(Rus)**

[The organization of the donation of autologous blood and its components in cardiac surgery] Shevchenko IuL, et al. **Vestn Khir Im I I Grek** 1996;155(5):71–4 (Eng. Abstr.) **(Rus)**

[Blood reinfusion in orthopedic surgery in Sweden. The most common method is wound reinfusion] Dalén T, et al. **Lakartidningen** 1996 Nov 27;93(48):4448, 4451–2 **(Swe)**

[Use of quantum hemotherapy in complex treatment of aged patients with suppurative inflammatory diseases] Veligots'kiĭ MM, et al. **Klin Khir** 1997;(1):9–11 (Eng. Abstr.) **(Ukr)**

ADVERSE EFFECTS

Autotransfusion--bacterial contamination during hip arthroplasty and efficacy of cefuroxime prophylaxis. A randomized controlled study of 40 patients. Wollinsky KH, et al. **Acta Orthop Scand** 1997 Jun;68(3):225–30

Fatal air embolism due to perioperative blood recovery. Linden JV, et al. **Anesth Analg** 1997 Feb;84(2):422–6

Comparative safety of units donated by autologous, designated and allogeneic (homologous) donors [letter; comment] Whyte G, et al. **Transfus Med** 1996 Jun; 6(2):209–11. Comment on: Transfus Med 1995 Jun;5(2):91–5.

[Predeposit autotransfusion and the physiopathology of erythropoesis: an unsettled question (editorial] Bofill C, et al. **Sangre (Barc)** 1996 Oct;41(5):341–3 **(Spa)**

CONTRAINDICATIONS

[Heterozygote beta-thalassemia: a contraindication for peroperative blood recovery? (letter)] Bretaudeau MM, et al. **Presse Med** 1996 Oct 26;25(32):1563 **(Fre)**

ECONOMICS

Cost-effectiveness of preoperative autologous blood donation for orthopedic and cardiac surgeries. AuBuchon JP. **Am J Med** 1996 Aug 26;101(2A):38S–42S (11 ref.)

Preoperative autologous blood donation: clinical, economic, and ethical issues. Domen RE. **Cleve Clin J Med** 1996 Sep; 63(5):295–300 (73 ref.)

Intraoperative hemodilution is more cost-effective than preoperative autologous donation for patients undergoing procedures associated with a low risk for transfusion. Rosenblatt MA, et al. **J Clin Anesth** 1997 Feb;9(1):26–9

Intraoperative autologous transfusion during elective infrarenal aortic reconstruction. Huber TS, et al. **J Surg Res** 1997 Jan;67(1):14–20

Intraoperative autologous transfusion during elective infrarenal aortic reconstruction: a decision analysis model. Huber TS, et al. **J Vasc Surg** 1997 Jun;25(6):984–93; discussion 993–4

[Evaluation of the cost of autologous erythrocyte concentrates in a hospital] Gouëzec H, et al. **Cah Anesthesiol** 1996;44(5):451–4 (Eng. Abstr.) **(Fre)**

[Use of recombinant erythropoietin in surgery—are the costs justified?] Wolff M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:143–5 (Eng. Abstr.) **(Ger)**

[Autologous blood donation versus homologous blood transfusion—an analysis of cost effectiveness] Dietrich GV. **Zentralbl Chir** 1996;121(10):841–6 (39 ref.) (Eng. Abstr.) **(Ger)**

[Cost savings with autotransfusion in connection with coronary surgery] Ovrum E, et al. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2616–8 (Eng. Abstr.) **(Nor)**

HISTORY

[History of autologous blood transfusion in the 19th century] Kasper SM, et al. **Zentralbl Chir** 1996;121(3):250–7 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Carbon monoxide levels in cell saver salvaged blood exposed to electrocautery during lumbar spine surgery. Slucky AV, et al. **J Spinal Disord** 1996 Oct;9(5):404–8

Effects on complement activation of a new continuous autotransfusion system. Bengtsson A, et al. **Transfus Med** 1997 Jun;7(2):107–13

Effectiveness of leukocyte filters in reducing tumor cell contamination after intraoperative blood salvage in lung cancer patients. Perseghin P, et al. **Vox Sang** 1997; 72(4):221–4

[Is the elimination of osteosarcoma cells with intraoperative "mesh autotransfusion" and leukocyte depletion filters possible?] Müller M, et al. **Anaesthesist** 1996 Sep; 45(9):834–8 (Eng. Abstr.) **(Ger)**

[EMLA for anesthesia of puncture sites for large lumen indwelling venous catheters for autologous plasma and erythrocyte concentrate donation] Gelowicz-Maurer M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jan;32(1):27–9 (Eng. Abstr.) **(Ger)**

[A device for the continuous-flow extracorporeal irradiation of the blood] Kompaniets NG. **Klin Khir** 1996;(7):45–6 **(Rus)**

LEGISLATION & JURISPRUDENCE

Preoperative autologous blood donation: clinical, economic, and ethical issues. Domen RE. **Cleve Clin J Med** 1996 Sep; 63(5):295–300 (73 ref.)

METHODS

Local wound and systemic coagulation/fibrinolysis responses in hip arthroplasty. Influence of allogeneic and autologous blood transfusion. Kristiansson ME, et al. **Acta Orthop Scand** 1997 Jun;68(3):221–4

Prudent strategies for red blood cell conservation in orthopedic surgery. deAndrade JR. **Am J Med** 1996 Aug 26;101(2A):16S–21S (09 ref.)

Perioperative autologous transfusion service: a logical extension of our role in the operating room [letter; comment] Green DM. **Anesthesiology** 1997 Jan;86(1):258. Comment on: Anesthesiology 1996 Jul;85(1):1–3. Comment on: Anesthesiology 1996 Jul;85(1):196–206.

Cardiopulmonary bypass and cell-saver technique in combined oncologic and cardiovascular surgery. Akchurin RS, et al. **Artif Organs** 1997 Jul;21(7):763–5

Guidelines for autologous transfusion. II. Perioperative haemodilution and cell salvage. British Committee for Standards in Haematology Blood Transfusion Task Force. Autologous Transfusion Working Party. Napier JA, et al. **Br J Anaesth** 1997 Jun;78(6):768–71

Allogeneic blood or marrow transplantation for chronic lymphocytic leukaemia: timing of transplantation and potential effect of fludarabine on acute graft-versus-host disease. Khouri IF, et al. **Br J Haematol** 1997 May; 97(2):466–73

Predeposit autologous blood transfusion in a tropical surgical practice. Adebamowo CA, et al. **Br J Surg** 1996 Aug; 83(8):1158–9

Intra-operative autotransfusion in radical cystectomy. Park KI, et al. **Br J Urol** 1997 May;79(5):717–21

Autotransfusion techniques in burn surgery [letter] Samuelsson A, et al. **Burns** 1997 Mar;23(2):188–9

Hemodilution with other blood reinfusion techniques in total hip arthroplasty. Oishi CS, et al. **Clin Orthop** 1997 Jun; (339):132–9

Proposal of an algorithm to help the choice of the best transfusion strategy. Mercuriali F, et al. **Curr Med Res Opin** 1996;13(8):465–78

Purging: elimination of malignant cells from autologous blood or marrow transplants. Champlin R. **Curr Opin Oncol** 1996 Mar;8(2):79–83 (56 ref.)

Effects of Trendelenburg versus passive leg raising: autotransfusion in humans [letter] Terai C, et al. **Intensive Care Med** 1996 Jun;22(6):613–4

Open heart operations without transfusion using a multimodality blood conservation strategy in 50 Jehovah's Witness patients: implications for a "bloodless" surgical technique. Rosengart TK, et al. **J Am Coll Surg** 1997 Jun; 184(6):618–29

Use of predeposited autologous blood plus intraoperative autotransfusion compared with use of predeposited autologous blood alone in radical retropubic prostatectomy [see comments] Chiusano MA, et al. **J Am Osteopath Assoc** 1996 Mar;96(3):160–4. Comment in: J Am Osteopath Assoc 1996 Mar;96(3):157–8.

Autologous blood collection in anemic patients using low-dose erythropoietin therapy. Mott LS, et al. **J Natl Med Assoc** 1997 Jun;89(6):381–4

Scheduled autologous blood donation at the time of cardiac catheterization in infants and children. Fukahara K, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):504–5

Blood saving in paediatric anaesthesia [editorial] de Villé A. **Paediatr Anaesth** 1997;7(3):181–2

Epoetin alfa as an adjunct to autologous blood donation in patients with a low hematocrit scheduled for elective orthopedic surgery. Adamson J. **Semin Hematol** 1997 Apr; 33(2 Suppl 2):15–6; discussion 17

Autologous blood donation with recombinant human erythropoietin in cardiac surgery: the Japanese experience. Baron JF. **Semin Hematol** 1997 Apr;33(2 Suppl 2):64–7; discussion 68

Autologous blood donation plus epoetin alfa in nonanemic orthopedic surgery patients. Baudoux E. **Semin Hematol** 1997 Apr;33(2 Suppl 2):31–2; discussion 33

Epoetin alfa as an adjuvant to autologous blood donation. Beris P. **Semin Hematol** 1997 Apr;33(2 Suppl 2):27–9; discussion 30

Perioperative epoetin alfa reduces transfusion requirements in coronary artery bypass graft surgery. D'Ambra M. **Semin Hematol** 1997 Apr;33(2 Suppl 2):73; discussion 74

Subcutaneous epoetin alfa as an adjunct to autologous blood donation before elective coronary artery bypass graft surgery. Gombotz H. **Semin Hematol** 1997 Apr;33(2 Suppl 2):69–70; discussion 71–2

Autologous blood donation and epoetin alfa in cancer surgery. Jeekel J. **Semin Hematol** 1997 Apr;33(2 Suppl 2):43–6; discussion 47 (13 ref.)

Potential of epoetin alfa in patients in autologous blood donation programs for orthopedic surgery. McClelland B. **Semin Hematol** 1997 Apr;33(2 Suppl 2):2–3; discussion 4 (10 ref.)

Epoetin alfa increases the volume of autologous blood donated by patients scheduled to undergo orthopedic surgery. Mercuriali F. **Semin Hematol** 1997 Apr;33(2 Suppl 2):10–2; discussion 13–4

Enhanced efficacy of autologous blood donation with epoetin alfa. Nydegger U. **Semin Hematol** 1997 Apr;33(2 Suppl 2):39–40; discussion 41–2

Epoetin alfa plus autologous blood donation and normovolemic hemodilution in patients scheduled for orthopedic or vascular surgery. Tryba M. **Semin Hematol** 1997 Apr;33(2 Suppl 2):34–6; discussion 37–8

Epoetin alfa plus autologous blood donation in patients with a low hematocrit scheduled to undergo orthopedic surgery. Tryba M. **Semin Hematol** 1997 Apr;33(2 Suppl 2):22–4; discussion 25–6

Use of epoetin alfa in autologous blood donation programs for patients scheduled for elective cardiac surgery. Walpoth B, et al. **Semin Hematol** 1997 Apr;33(2 Suppl 2):75–6; discussion 77

Autotransfusion with laparoscopically salvaged blood in trauma: report on 21 cases. Zantut LF, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):46–8

Effectiveness of very low doses of subcutaneous recombinant human erythropoietin in facilitating autologous blood donation before orthopedic surgery. Sans T, et al. **Transfusion** 1996 Sep;36(9):822–6

Percutaneous blood salvage prior to auto-transfusion [letter] Dyke T, et al. **Trop Doct** 1997 Jul;27(3):189

[Autotransfusion: reflections on the preparation prior to donation] Zysset F, et al. **Rev Med Suisse Romande** 1997 Jun;117(6):501–7 (19 ref.) **(Fre)**

[Experimental principles and general practice of intraoperative autotransfusion with blood irradiation in tumor operation] Hansen E, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:184–90 (Eng. Abstr.) **(Ger)**

[Effect of postoperative retransfusion of autologous blood products on hemostasis in heart surgery] Walpoth-Aslan BN, et al. **Schweiz Med Wochenschr** 1996 Nov 9; 126(45):1940–3 (Eng. Abstr.) **(Ger)**

[Autologous blood transfusion: results with routine use of

autologous blood transfusion, normovolemic hemodilution and postoperative retransfusion of drainage blood salvaged with the Solcotrans system] Lagana S, et al. **Swiss Surg** 1996;2(6):244–51 (Eng. Abstr.) **(Ger)**

[Usefulness of recombinant human erythropoietin on predeposit autologous blood transfusion in patients undergoing radical prostatectomy] Hashine K, et al. **Hinyokika Kiyo** 1997 Jun;43(6):411–4 (Eng. Abstr.) **(Jpn)**

[Open heart surgery without homologous blood transfusion in elderly patients] Kanno S, et al. **Kyobu Geka** 1997 Jul; 50(8 Suppl):702–6 (Eng. Abstr.) **(Jpn)**

[Combined erythropoietin and aprotinin use for blood conservation in elderly coronary bypass patients] Oshima N, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):707–10 (Eng. Abstr.) **(Jpn)**

[Reduction of homologous blood in elective cardiac surgery with miscellaneous autologous blood transfusion—especially with short-term predonation method] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):891–8 (Eng. Abstr.) **(Jpn)**

[Open heart surgery with bloodless priming for cyanotic congenital heart diseases—the role of autologous blood donation after induction of anesthesia] Takahashi Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1075–81 (Eng. Abstr.) **(Jpn)**

[Thyroid function in patients with posthemorrhagic anemia against a background of ultraviolet irradiation of the blood] Desiaterik VI, et al. **Klin Khir** 1995;(1):44 **(Rus)**

[Clinical implications of high blood viscosity and its reduction bu photo-hemotherapy] Karandashov VI, et al. **Klin Med (Mosk)** 1997;75(8):19–23 (37 ref.) (Eng. Abstr.) **(Rus)**

[The regional hemodynamics in patients with chronic arterial insufficiency of the lower extremities after the transfusion of UV-irradiated autologous blood] Karandashov VI, et al. **Vestn Khir Im I I Grek** 1996;155(2):76–8 (Eng. Abstr.) **(Rus)**

[A method for quantum hemotherapy during the performance of extracorporeal detoxication operations] Il'ko AA. **Klin Khir** 1995;(1):41–2 **(Ukr)**

STANDARDS

Practical aspects of preoperative autologous transfusion. Yomtovian R. **Am J Clin Pathol** 1997 Apr;107(4 Suppl 1):S28–35 (63 ref.)

Treatment of a spontaneous filtering bleb due to Terrien's marginal degeneration with injection of autologous blood. Wong VA, et al. **Can J Ophthalmol** 1995 Dec;30(7):377–9

Qualitative assessment of blood washing with the continuous autologous transfusion system (CATS). Walpoth BH, et al. **Int J Artif Organs** 1997 Apr;20(4):234–9

Autologous donation error rates in Canada [see comments] Goldman M, et al. **Transfusion** 1997 May;37(5):523–7. Comment in: Transfusion 1997 May;37(5):455–6.

Autologous blood: always safer? [editorial; comment] Linden JV, et al. **Transfusion** 1997 May;37(5):455–6. Comment on: Transfusion 1997 May;37(5):523–7.

The importance of quality of whole blood and erythrocyte concentrates for autologous transfusion. A literature survey and meta-analysis of in vivo erythrocyte recovery (see comments)] Karger R, et al. **Anaesthesist** 1996 Aug; 45(8):694–707 (Eng. Abstr.). Comment in: Anaesthesist 1997 May;46(5):459–61. **(Ger)**

Quality control of whole blood and erythrocyte concentrates for autologous blood transfusion] Sibrowski W. **Anaesthesist** 1996 Aug;45(8):671–3 **(Ger)**

The importance of quality of whole blood and erythrocyte concentrates for autologous transfusion. Remarks on the work of R. Karger and V. Kretschmer, Anaesthesist (1996) 45:694–707 (letter; comment)] Weisbach V, et al. **Anaesthesist** 1997 May;46(5):459–61. Comment on: Anaesthesist 1996 Aug;45(8):694–707. **(Ger)**

STATISTICS & NUMERICAL DATA

Efficacy of autotransfusion in spine surgery: comparison of autotransfusion alone and with hemodilution and apheresis. Blais RE, et al. **Spine** 1996 Dec 1;21(23):2795–800

Autologous blood transfusion in radical hysterectomy. Pinkerton PH, et al. **Transfus Med** 1996 Sep;6(3):223–5

Possible benefit of preoperative blood deposit for abdominal surgery. Flordal PA, et al. **World J Surg** 1997 May; 21(4):349–52

[Characteristics of an autologous blood donation program for children and adolescents of the Dresden University Clinic] Ruhl HG, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:210–4 (Eng. Abstr.) **(Ger)**

[Clinical studies on autologous blood transfusion] Okamoto M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Aug; 99(8):1095–103 (Eng. Abstr.) **(Jpn)**

UTILIZATION

Autotransfusion utilization in abdominal trauma. Smith LA, et al. **Am Surg** 1997 Jan;63(1):47–9

A survey of factors determining the utilization of autologous blood donation in hip replacement surgery. Dugast C, et al. **Eur J Anaesthesiol** 1997 May;14(3):276–80

Preoperative autologous blood donation and plateletpheresis in patients undergoing elective cardiac operations—factors that influence the need for homologous blood transfusion. Iguchi A, et al. **Jpn Circ J** 1997 Mar;61(3):236–40

A pilot study of continuous ambulatory electrocardiography in patients donating blood for autologous use in elective coronary artery bypass grafting. Kasper SM, et al. **Transfusion** 1997 Aug;37(8):829–35

Bridgeport Hospital autologous blood donation experience from 1992 to 1996. Bernstein LH, et al. **Yale J Biol Med** 1996 Sep–Dec;68(5–6):207–13

BLOOD TRANSFUSION, INTRAUTERINE

The effect of intravascular transfusion for severely anemic fetuses on umbilical artery Doppler flow velocity waveforms. Gungor M, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):711–4

Intrauterine transfusions affect fetal T-cell immunity. Viëtor HE, et al. **Blood** 1997 Sep 15;90(6):2492–501

Fetomaternal haemorrhage discovered after trauma and treated by fetal intravascular transfusion. Lipitz S, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan;71(1):21–2

Circulating hematopoietic stem cell populations in human fetuses: implications for fetal gene therapy and alterations with in utero red cell transfusion. Eddleman KA, et al. **Fetal Diagn Ther** 1996 Jul–Aug;11(4):231–40

Intravenous immunoglobulin as primary therapy or adjuvant therapy to intrauterine fetal blood transfusion: a new approach in the management of severe Rh-immunization. Deka D, et al. **J Obstet Gynaecol Res** 1996 Dec;22(6):561–7

Alterations in cord blood leukocyte subsets of patients with severe hemolytic disease after intrauterine transfusion therapy [see comments] Viëtor HE, et al. **J Pediatr** 1997 May;130(5):718–24. Comment in: J Pediatr 1997 May;130(5):686–8.

High-dose gammaglobulin (IVIG) followed by intrauterine transfusions (IUTs): a new alternative for the treatment of severe fetal hemolytic disease. Voto LS, et al. **J Perinat Med** 1997;25(1):85–8

The effect of intrauterine transfusion on fetal bilirubin in red cell alloimmunization. Goodrum LA, et al. **Obstet Gynecol** 1997 Jan;89(1):57–60

Post-irradiation plasma potassium and intra-uterine transfusion [letter] Win N, et al. **Vox Sang** 1997;73(1):56–7

[Doppler ultrasound in cases of Rhesus incompatibility. Effect of intravascular punctures with or without transfusion on feto-placental Doppler blood flow velocity curves] Albrecht A, et al. **Ultraschall Med** 1996 Aug; 17(4):171–4 (Eng. Abstr.) **(Ger)**

[Cardiotocographic changes after umbilical cord puncture and umbilical cord transfusion] Gremm B, et al. **Zentralbl Gynakol** 1997;119(4):173–6 (Eng. Abstr.) **(Ger)**

[Infantile type Bland-White-Garland syndrome as a cause of death in Rh incompatibility] Springer C, et al. **Zentralbl Gynakol** 1997;119(6):286–9 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Tubo-peritoneal factor infertility: a distant sequel to intrauterine transfusion for rhesus disease. Harrison RF, et al. **Hum Reprod** 1996 Oct;11(10):2134–5

Blood transfusion for haemolytic disease as a cause of leukocytosis in the fetus. Yankowitz J, et al. **Prenat Diagn** 1996 Aug;16(8):719–22

INSTRUMENTATION

Fetal outcome following intrauterine intravascular transfusion in rhesus alloimmunization. Merchant RH, et al. **Indian Pediatr** 1995 Sep;32(9):971–7

METHODS

Erythropoietin course in newborns with Rh hemolytic disease transfused and not transfused in utero. Dallacasa P, et al. **Pediatr Res** 1996 Aug;40(2):357–60

BLOOD TYPING see **BLOOD GROUPING AND CROSSMATCHING**

BLOOD UREA NITROGEN

Screening for extreme postdialysis urea rebound using the Smye method: patients with access recirculation identified when a slow flow method is not used to draw the postdialysis blood. Daugirdas JT, et al. **Am J Kidney Dis** 1996 Nov;28(5):727–31

Relapse and elevation of blood urea nitrogen in acute fenitrothion and malathion poisoning. Futagami K, et al. **Int J Clin Pharmacol Ther** 1996 Oct;34(10):453–6

Equations for normalized protein catabolic rate based on two-point modeling of hemodialysis urea kinetics. Depner TA, et al. **J Am Soc Nephrol** 1996 May;7(5):780–5

Time course of increased plasma cytokines, cortisol, and urea nitrogen in pigs following intraperitoneal injection of lipopolysaccharide. Webel DM, et al. **J Anim Sci** 1997 Jun; 75(6):1514–20

Effects of amylose and wheat bran on the levels of blood serum urea nitrogen (BUN), other blood parameters, growth and fecal characteristics in rats. Mongeau R, et al. **Plant Foods Hum Nutr** 1995 Sep;48(2):95–105

Urea kinetic modelling in two groups of patients on continuous ambulatory peritoneal dialysis. Barton EN, et al. **West Indian Med J** 1997 Jun;46(2):57–9

BLOOD VESSEL PROSTHESIS

Combined revascularization of coronary and femoral arteries, using the ascending aorta as inflow source. Daenens K, et al. **Acta Chir Belg** 1997 Jan–Feb;97(1):47–9

MR imaging signal-intensity abnormalities after placement of arterial endoprostheses. Müller-Hülsbeck S, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):743–8

Treatment of superior and inferior vena cava syndromes of malignant cause with Wallstent catheter placed percutaneously. Chacón López-Muñiz JI, et al. **Am J Clin Oncol** 1997 Jun;20(3):293–7

Effects of antiplatelet drugs on dialysis-associated platelet deposition in polytetrafluoroethylene grafts. Windus DW, et al. **Am J Kidney Dis** 1997 Apr;29(4):560–4

Heparin-related thrombosis despite normal platelet counts in vascular surgery. Hach-Wunderle V, et al. **Am J Surg** 1997 Feb;173(2):117–9

Is color duplex surveillance of infrainguinal polytetrafluoroethylene grafts worthwhile? Hoballah JJ, et al. **Am J Surg** 1997 Aug;174(2):131–5

Intraoperative prebypass arteriography for infrageniculate revascularization. Huber TS, et al. **Am J Surg** 1997 Aug; 174(2):205–9

A new method of creating an arteriovenous graft access [letter; comment] Leow CK, et al. **Am J Surg** 1997 Feb; 173(2):149–50. Comment on: Am J Surg 1996 Mar;171(3):369–70.

Effect of intra-arterial environment on endothelialization and basement membrane organization in polytetrafluoroethylene grafts. Ombrellaro MP, et al. **Am J Surg** 1997 Jul;174(1):29–32

Effect of balloon-expandable and self-expanding stent fixation on endoluminal polytetrafluoroethylene graft healing. Ombrellaro MP, et al. **Am J Surg** 1997 Jun; 173(6):461–6

A two-layer "telescoping" proximal anastomosis for repair of juxtarenal abdominal aortic aneurysms. Hans SS, et al. **Am Surg** 1997 Sep;63(9):839–41

Severe intraoperative coagulopathy following routine aortobi-iliac bypass with knitted Dacron graft. Naslund TC, et al. **Am Surg** 1997 May;63(5):386–9

Reducing cross-clamping duration in aortoiliac reconstruction after renal transplantation. A case report. Albers M, et al. **Angiology** 1996 Dec;47(12):1181–5

Infrarenal aortofemoral bypass surgery: risk factors and mortality in 330 patients with abdominal aortic aneurysm or aortoiliac occlusive disease. Jaakkola P, et al. **Ann Chir Gynaecol** 1996;85(1):28–35

Replicas of human aortic and iliac artery aneurysms for endovascular repair. Practice makes perfect. Wisselink W, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:258–9

Contralateral rectus abdominis muscle flap coverage for the management of a complicated groin defect [letter] Aygit AC, et al. **Ann Plast Surg** 1997 Mar;38(3):307–8

Gluteal infarction as a complication of aortofemoral bypass grafting. Ho PR, et al. **Ann Plast Surg** 1996 Dec;37(6):645–9

Healing of microvenous polytetrafluoroethylene (PTFE) prostheses implanted into the rat femoral vein by means of 3M precise. Oguchi H, et al. **Ann Plast Surg** 1996 Jan; 36(1):60–4

Differential effects on portal and effective hepatic blood flow. A comparison between transjugular intrahepatic portasystemic shunt and small-diameter H-graft portacaval shunt. Rosemurgy AS, et al. **Ann Surg** 1997 May; 225(5):601–7; discussion 607–8

Fate of trileaflet equine pericardial extracardiac conduit used for the correction of anomalies having pulmonic ventricle-pulmonary arterial discontinuity. Ando M, et al. **Ann Thorac Surg** 1997 Jul;64(1):154–8

Extension of the "elephant trunk" technique in complex aortic pathology: the "bidirectional" option. Carrel T, et al. **Ann Thorac Surg** 1997 Jun;63(6):1755–8

Cardiac tamponade after a systemic-pulmonary shunt complicated by serous leakage. García-Guereta L, et al. **Ann Thorac Surg** 1997 Jan;63(1):248–9; discussion 250

Composite aortic root replacement with direct coronary artery implantation. Hilgenberg AD, et al. **Ann Thorac Surg** 1996 Oct;62(4):1090–5

Clinical application of transluminal endovascular graft placement for aortic aneurysms. Inoue K, et al. **Ann Thorac Surg** 1997 Feb;63(2):522–8

Successful implantation of Thoratec assist device: wrapping of outflow conduit in Hemashield graft. Minami K, et al. **Ann Thorac Surg** 1997 Sep;64(3):861–2

Transaxillary minithoracotomy for modified Blalock-Taussig shunt. Mittal PK. **Ann Thorac Surg** 1997 Jul;64(1):269–70

Simultaneous subclavian artery reconstruction in coronary artery bypass grafting. Ochi M, et al. **Ann Thorac Surg** 1997 May;63(5):1284–7

Extracardiac conduit composed of gutter-shaped prosthesis and pedicled pericardial valved patch for pulmonary trunk reconstruction. Ohmi M, et al. **Ann Thorac Surg** 1996 Oct; 62(4):1183–6

Surgical treatment of acute type B aortic dissection using an endoprosthesis (elephant trunk). Palma JH, et al. **Ann Thorac Surg** 1997 Apr;63(4):1081–4

Total intercostal artery reimplantation for descending thoracic aortic replacement. Usui A, et al. **Ann Thorac Surg** 1996 Nov;62(5):1523–5

Prevention of lower extremity ischemia during cardiopulmonary bypass via femoral cannulation. Vander

Salm TJ. **Ann Thorac Surg** 1997 Jan;63(1):251–2

Developments in surgical palliation of univentricular physiology [letter] van Son JA, et al. **Ann Thorac Surg** 1997 Jan;63(1):301–3

Repair of aortoesophageal fistula after aortic grafting. Wickstrom PH, et al. **Ann Thorac Surg** 1997 Jul;64(1):253–5

Protection of the retrosternal right internal mammary artery with stented grafts [letter; comment] Zehr KJ, et al. **Ann Thorac Surg** 1997 Jan;63(1):297–8. Comment on: Ann Thorac Surg 1995 Dec;60(6):1826–8.

Endothelial cell seeding kinetics under chronic flow in prosthetic grafts. Carr HM, et al. **Ann Vasc Surg** 1996 Sep; 10(5):469–75

Phosphorylcholine coating of ePTFE grafts reduces neointimal hyperplasia in canine model. Chen C, et al. **Ann Vasc Surg** 1997 Jan;11(1):74–9

Endovascular repair of peripheral aneurysms, pseudoaneurysms, and arteriovenous fistulas. Criado E, et al. **Ann Vasc Surg** 1997 May;11(3):256–63

Video–assisted aortofemoral bypass: results in seven cases. Fabiani JN, et al. **Ann Vasc Surg** 1997 May;11(3):273–7

Axillofemoral bypass graft fracture. Friedman SG, et al. **Ann Vasc Surg** 1996 Sep;10(5):490–2

Successful treatment of early postoperative aortic graft infection by percutaneous catheter drainage. Glickerman DJ, et al. **Ann Vasc Surg** 1996 Sep;10(5):486–9

Early attachment of platelets, leukocytes, and fibrinogen in endothelial cell seeded Dacron grafts. Jensen N, et al. **Ann Vasc Surg** 1996 Nov;10(6):530–6

Gerota's fascia flap: an alternative for aortic graft coverage. LaMuraglia GM, et al. **Ann Vasc Surg** 1996 Jul;10(4):405–8

The Dialine II graft: a new collagen–impregnated warp–knitted polyester arterial prosthesis. Marois Y, et al. **Ann Vasc Surg** 1997 Mar;11(2):133–40

Mechanical characteristics of dilated polytetraflouroethylene used for transluminally placed endovascular grafts. Marston WA, et al. **Ann Vasc Surg** 1997 Jan;11(1):68–73

Results of endoluminal grafting of abdominal aortic aneurysms are dependent on aneurysm morphology. May J, et al. **Ann Vasc Surg** 1996 May;10(3):254–61

Lower extremity bypass for critical ischemia using synthetic conduit and adjuvant vein cuff. Morasch MD, et al. **Ann Vasc Surg** 1997 May;11(3):242–6

Use of endovascular grafts to treat nonaneurysmal arterial disease. Ohki T, et al. **Ann Vasc Surg** 1997 Mar;11(2):200–5

Accelerated endothelialization model for the study of Dacron graft healing. Onuki Y, et al. **Ann Vasc Surg** 1997 Mar; 11(2):141–8

Aortic transgraft hemorrhage after systemic thrombolytic therapy. Pope M, et al. **Ann Vasc Surg** 1997 May; 11(3):292–4

Healing characteristics of intraarterial stent grafts in an injured artery model. Weatherford DA, et al. **Ann Vasc Surg** 1997 Jan;11(1):54–61

Comparison of the deployment and healing of thin–walled expanded PTFE stented grafts and covered stents. White R, et al. **Ann Vasc Surg** 1996 Jul;10(4):336–46

Deployment and healing of an ePTFE encapsulated stent endograft in the canine aorta. Wilson EP, et al. **Ann Vasc Surg** 1997 Jul;11(4):354–8

Late disruption of Dacron aortic grafts. Wilson SE, et al. **Ann Vasc Surg** 1997 Jul;11(4):383–6 (19 ref.)

Stent–graft placement procedures for descending thoracic aortic aneurysms. Liston SM. **AORN J** 1997 Sep; 66(3):433–8, 440, 442 passim

Ciprofloxacin treatment of bacterial endocarditis involving prosthetic material after cardiac surgery. Brown NM, et al. **Arch Dis Child** 1997 Jan;76(1):68–9

Transplantation of human endothelial cell monolayer on artificial vascular prosthesis: the effect of growth–support surface chemistry, cell seeding density, ECM protein coating, and growth factors. Sipehia R, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan; 24(1):51–63

Use of percutaneous cardiopulmonary support system with rotary blood pump in graft replacement of the descending thoracic and thoracoabdominal aorta. Watanabe S, et al. **Artif Organs** 1997 Jul;21(7):846–51

Polyester arterial prostheses. Recent developments from the Czech Republic and Poland. Guidoin R, et al. **ASAIO J** 1997 Jan–Feb;43(1):69–83

Failure modes and performance of synthetic, autologous, and endovascular grafts. Guidoin R, et al. **ASAIO J** 1997 May–Jun;43(3):239–41 (17 ref.)

Development of a thermal cross–linking heparinization method and its application to small caliber vascular prostheses. Iwai Y. **ASAIO J** 1996 Sep–Oct;42(5):M693–7

A collagen coated fabric vascular prosthesis as a puncturable A–V shunt. Noishiki Y, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M687–93

Computational simulation of flow in the end–to–end anastomosis of a rigid graft and a compliant artery. Qiu Y, et al. **ASAIO J** 1996 Sep–Oct;42(5):M702–9

Vena cava replacement with a peritoneum–lined vascular graft. Theuer CJ, et al. **ASAIO J** 1996 Jul–Aug; 42(4):266–70

Endogenous basic fibroblast growth factor for endothelialization due to angiogenesis in fabric vascular prostheses. Tomizawa Y, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M698–702

Fluid mechanical considerations in vascular grafts. Overview. Vorp DA. **ASAIO J** 1997 May–Jun;43(3):237–8 (9 ref.)

A self–expanding bifurcated endovascular graft for abdominal aortic aneurysm repair. An initial study in a canine model. Wilson GJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M386–93

A self–expanding endoluminal graft for treatment of aneurysms: results through the development phase. Gordon MK, et al. **Aust N Z J Surg** 1996 Sep;66(9):621–5

Inhibition of fibro–intimal hyperplasia in a polytetrafluoroethylene vascular graft with standard heparin and low molecular weight heparin. Taylor A, et al. **Aust N Z J Surg** 1996 Nov;66(11):764–7

Synthesis of a new photoreactive derivative of dipyridamole and its use in the manufacture of artificial surfaces with low thrombogenicity. Aldenhoff YB, et al. **Bioconjug Chem** 1997 May–Jun;8(3):296–303

Studies on radio–opaque polymeric biomaterials with potential applications to endovascular prostheses. Kruft MA, et al. **Biomaterials** 1996 Sep;17(18):1803–12

Vascugraft microporous polyesterurethane arterial prosthesis as a thoraco–abdominal bypass in dogs. Marois Y, et al. **Biomaterials** 1996 Jul;17(13):1289–300

Physical properties of a porcine internal thoracic artery fixed with an epoxy compound. Sung HW, et al. **Biomaterials** 1996 Dec;17(24):2357–65

Vascugraft polyurethane arterial prosthesis as femoro–popliteal and femoro–peroneal bypasses in humans: pathological, structural and chemical analyses of four excised grafts. Zhang Z, et al. **Biomaterials** 1997 Jan; 18(2):113–24

Thrombomodulin activity on mesothelial cells: perspectives for mesothelial cells as an alternative for endothelial cells for cell seeding on vascular grafts. Verhagen HJ, et al. **Br J Haematol** 1996 Dec;95(3):542–9

Pictorial review: endovascular repair of abdominal aortic aneurysms. Dyet JF. **Br J Radiol** 1996 Nov;69(827):1069–74 (8 ref.)

New graft design to inhibit myointimal hyperplasia in small vessel anastomoses. Brennan JA, et al. **Br J Surg** 1996 Oct; 83(10):1383–4

Pedal bypass for limb–threatening ischaemia: an 11–year review. Eckstein HH, et al. **Br J Surg** 1996 Nov; 83(11):1554–7

Simultaneous aortorenal homograft transplantation: expanding the indications for renal and vascular replacement [letter; comment] Jamieson CW. **Br J Surg** 1996 Dec;83(12):1797. Comment on: Br J Surg 1996 Jul;83(7):918.

Early attachment of leucocytes, platelets and fibrinogen in endothelial cell–seeded Dacron venous conduits. Jensen N, et al. **Br J Surg** 1997 Jan;84(1):52–7

Colour duplex scanning and pulse–generated run–off for assessment of popliteal and cruropedal arteries before peripheral bypass surgery. Koelemay MJ, et al. **Br J Surg** 1997 Aug;84(8):1115–9

Local anaesthetic for lower–limb revascularization in high–risk patients. Mackay CA, et al. **Br J Surg** 1997 Aug; 84(8):1096–8

Partial portal arterialization for dearterialized liver after hepatectomy. Ozeki Y, et al. **Br J Surg** 1997 Jul;84(7):1011

Temporary left external axillofemoral bypass during repair of a leaking type B aortic dissection. Taylor PR, et al. **Br J Surg** 1997 Mar;84(3):423

Changing patterns in aortoiliac reconstruction: a 7–year audit. Whiteley MS, et al. **Br J Surg** 1996 Oct;83(10):1367–9

Endovascular treatment of renal artery aneurysms with conventional non–detachable microcoils and Guglielmi detachable coils. Klein GE, et al. **Br J Urol** 1997 Jun; 79(6):852–60

Compression of a composite graft by a peri–aortic pseudoaneurysm in a postoperative Marfan patient. López–Candales A. **Can J Cardiol** 1997 Jun;13(6):611–4

5th International and Interdisciplinary Symposium on Endoluminal Stents and Grafts. Washington, DC, USA. October 10–13, 1996. Abstracts. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):67–89

Percutaneous treatment of iliac aneurysms and pseudoaneurysms with Cragg Endopro System I stent–grafts. Gasparini D, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct;20(5):348–52

Inadvertent rupture of a composite vein graft by angioplasty. Sandison A, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):305–7

Vascular stents and stent grafts: a vascular surgeon's view. Taylor PR. **Cardiovasc Intervent Radiol** 1997 Jan–Feb; 20(1):1–4 (37 ref.)

Polytetrafluoroethylene grafts for carotid repair. Becquemin JP, et al. **Cardiovasc Surg** 1996 Dec;4(6):740–5

Composite grafts for critical ischaemia. Benedetti–Valentini F, et al. **Cardiovasc Surg** 1996 Jun;4(3):372–6

Processed bovine pericardium as patch angioplasty for carotid endarterectomy: a preliminary report. Biasi GM, et al. **Cardiovasc Surg** 1996 Oct;4(5):591–5

Thromboxane A2 receptor density increases during chronic exposure to thromboxane A2 receptor antagonists after porcine carotid bypass. Brothers TE, et al. **Cardiovasc Surg** 1997 Feb;5(1):92–8

Prophylaxis of graft infection with rifampicin–bonded Gelseal graft: 2–year follow–up of a prospective clinical trial. Italian Investigators Group. D'Addato M, et al. **Cardiovasc Surg** 1996 Apr;4(2):200–4

A comparative study of endothelium–derived relaxing factor–mediated relaxation and smooth muscle cell function in arterial and venous vein bypass grafts. Davies MG, et al. **Cardiovasc Surg** 1996 Apr;4(2):150–60

Comparison of perioperative results obtained with carotid eversion endarterectomy and with conventional patch plasty. Entz L, et al. **Cardiovasc Surg** 1997 Feb;5(1):16–20

'In vivo' size of knitted Dacron prostheses (Gelseal) used in the thoracic aorta: a computed tomography study. Goossens D, et al. **Cardiovasc Surg** 1996 Apr;4(2):205–6

Effects of albumin coating of knitted Dacron grafts on transinterstitial blood loss and tissue ingrowth and incorporation. Kang SS, et al. **Cardiovasc Surg** 1997 Apr; 5(2):184–9

Radical open endvenectomy with autologous pericardial patch graft for correction of Budd–Chiari syndrome. Koja K, et al. **Cardiovasc Surg** 1996 Aug;4(4):500–4

In situ arterial allografting for aortoiliac graft infection: a 6–year experience. Koskas F, et al. **Cardiovasc Surg** 1996 Aug;4(4):495–9

Bilateral splenorenal bypass and axillofemoral graft for management of juxtarenal mycotic aneurysm. Marty–Ané C, et al. **Cardiovasc Surg** 1996 Jun;4(3):331–4

Recurrent femoral anastomotic false aneurysms: is long term repair possible? Melliere D, et al. **Cardiovasc Surg** 1996 Aug;4(4):480–2

A rare case of multiple atherosclerotic aneurysms involving the femoral artery. Okada K, et al. **Cardiovasc Surg** 1996 Oct;4(5):641–3

Femoropopliteal bypass revisited: an analysis of 138 cases. Plecha EJ, et al. **Cardiovasc Surg** 1996 Apr;4(2):195–9

Experimental evaluation of bleeding complications, thrombogenicity and neointimal characteristics of prosthetic patch materials used for carotid angioplasty. Rhee RY, et al. **Cardiovasc Surg** 1996 Dec;4(6):746–52

Prophylaxis against Staphylococcus epidermidis vascular graft infection with rifampicin–soaked, gelatin–sealed Dacron. Sardelic F, et al. **Cardiovasc Surg** 1996 Jun; 4(3):389–92

Composite graft replacement of the aortic root in patients with Marfan's syndrome. Sekine S, et al. **Cardiovasc Surg** 1996 Oct;4(5):635–8

Pantaloon vein graft technique in tibial revascularization with arteriovenous fistula for limb salvage. Sogaro F, et al. **Cardiovasc Surg** 1996 Jun;4(3):377–80

A technique for the creation of long autogenous tissue arterial patches. Solis MM, et al. **Cardiovasc Surg** 1996 Aug; 4(4):509–11

Aortobifemoral surgery induces complement activation and release of interleukin–6 but not tumour necrosis factor–alpha. Swartbol P, et al. **Cardiovasc Surg** 1996 Aug; 4(4):483–91

The role of low–density lipoprotein apheresis as postoperative care of bypass grafting for chronic arterial occlusion. Takagi M, et al. **Cardiovasc Surg** 1996 Aug; 4(4):459–65

Sigmoidal ischaemia after aortic grafting, detected by endoluminal pulse oximetry. Vahl AC, et al. **Cardiovasc Surg** 1996 Jun;4(3):345–50

Percutaneous bailout therapy of a perforated vein graft using a stent–autologous vein patch [see comments] Colon PJ 3rd, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):175–8. Comment in: Cathet Cardiovasc Diagn 1995 Jun;38(2):179.

Percutaneous revascularization using endoluminal prostheses: coming of age [editorial] Heuser RR. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):213–4

Coronary flow in a prosthetic aorto–coronary bypass graft: first report of Possis Perma–Flow graft physiology in a patient. Mooney MJ, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):315–8

Experimental patch bronchoplasty with ringed vascular graft. Liu HP, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):225–8

Acute reductions in blood flow and shear stress induce platelet–derived growth factor–A expression in baboon prosthetic grafts. Kraiss LW, et al. **Circ Res** 1996 Jul; 79(1):45–53

Recombinant mitotoxin basic fibroblast growth factor–saporin reduces venous anastomotic intimal hyperplasia in the arteriovenous graft. Chen C, et al. **Circulation** 1996 Oct 15;94(8):1989–95

Enhanced cellular proliferation in intact stenotic lesions derived from human arteriovenous fistulas and peripheral bypass grafts. Does it correlate with flow parameters? Hofstra L, et al. **Circulation** 1996 Sep 15;94(6):1283–90

Ga–67 scintigraphy in a patient with infected vascular synthetic graft. Turpin S, et al. **Clin Nucl Med** 1997 Jul; 22(7):497–8

Embolization of iliac artery aneurysms following abdominal aortic aneurysm repair with a bifurcated graft. McLoughlin RF, et al. **Clin Radiol** 1997 Sep;52(9):680–3

Radical replacement of the aortic root in acute type A dissection: indications and outcome. Ergin MA, et al. **Eur J Cardiothorac Surg** 1996;10(10):840–4; discussion 845

Reoperative aortic root surgery late after use of histo–acryl. Goossens D, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):194–5

Successful treatment of primary pneumococcal multilocular mycotic aneurysms. Grandmougin D, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):133–7

Extraanatomic thoracic aortic bypass grafts: indications, techniques, and results. Heinemann MK, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):169–75

Percutaneous occlusion of the entry to a leaking false aneurysm after ascending aortic replacement for aortic

dissection type A facilitating surgical repair. Henriques JP, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):381–3

Expandable prosthesis for sutureless anastomosis in thoracic aorta prosthetic substitution. Nazari S, et al. **Eur J Cardiothorac Surg** 1996;10(11):1003–9

Long–term results of patch repair for saccular aneurysms of the transverse aortic arch. Okita Y, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):953–6

Surgery of the thoracic aorta with hypothermic circulatory arrest: experience with retrograde perfusion via the superior vena cava and demonstration of cerebral perfusion. Pagano D, et al. **Eur J Cardiothorac Surg** 1996;10(10):833–8; discussion 839

Endothelial cell seeding improves patency of synthetic vascular grafts: manual versus automatized method. Pasic M, et al. **Eur J Cardiothorac Surg** 1996;10(5):372–9

Reoperations after dacron patch aortoplasty with heparinized femoro–femoral bypass. Roth M, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):997–1000

Safer approach to transthoracic intra–aortic balloon cannulation [letter; comment] Santini F, et al. **Eur J Cardiothorac Surg** 1996;10(10):928. Comment on: Eur J Cardiothorac Surg 1995;9(10):602–3.

Composite graft in annulo–aortic ectasia. Nineteen years' experience without graft inclusion. Savunen T, et al. **Eur J Cardiothorac Surg** 1996;10(6):428–32

The use of a Perma–Flow graft for coronary artery bypass surgery. Schmid C, et al. **Eur J Cardiothorac Surg** 1996; 10(4):284–6

Risk factors for early degeneration of allografts in pulmonary circulation. Schorn K, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):62–9

Primary repair of coarctation of the thoracic aorta by patch graft aortoplasty. A three–decade experience and follow–up in 60 patients. Venturini A, et al. **Eur J Cardiothorac Surg** 1996;10(10):890–6

The anatomy of abdominal aortic aneurysms: implications for sizing of endovascular grafts. Armon MP, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):398–402

Mesothelial versus endothelial cell seeding: evaluation of cell adherence to a fibroblastic matrix using 111In oxine. Bellón JM, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):142–8

Endovascular repair of an inflammatory aortic aneurysm. Boyle JR, et al. **Eur J Vasc Endovasc Surg** 1997 Mar; 13(3):328–9

The efficacy of transfemoral endovascular aneurysm management: a study on size changes of the abdominal aorta during mid–term follow–up. Broeders IA, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):84–90

The impact of knee joint flexion on infrainguinal vascular grafts: an angiographic study. Chakfe N, et al. **Eur J Vasc Endovasc Surg** 1997 Jan;13(1):23–30

Albumin–impregnated polyester vascular prosthesis for abdominal aortic surgery: an improvement? Chakfe N, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):346–53

A prototype simulator for endovascular repair of abdominal aortic aneurysms. Chong CK, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):330–3

Aneurysm pressure following endovascular exclusion. Chuter T, et al. **Eur J Vasc Endovasc Surg** 1997 Jan;13(1):85–7

A telescopic stent–graft for aortoiliac implantation. Chuter TA, et al. **Eur J Vasc Endovasc Surg** 1997 Jan;13(1):79–84

Composite polytetrafluroethylene/vein bypass grafts: conventional distal vein segment or vein cuff? Karacagil S, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):337–41

Renal arteries covered by aortic stents: clinical experience from endovascular grafting of aortic aneurysms. Malina M, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):109–13

Concurrent comparison of endoluminal repair vs. no treatment for small abdominal aortic aneurysms. May J, et al. **Eur J Vasc Endovasc Surg** 1997 May;13(5):472–6

Importance of plain x–ray in endoluminal aortic graft surveillance. May J, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):202–6

Comparative results of early and delayed cannulation of arteriovenous graft in haemodialysis. Sottiurai VS, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):139–41

In vitro endothelialisation of arteriovenous loop grafts for haemodialysis. Swedenborg J, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):272–7

Myointimal hyperplasia in vein collars for ePTFE grafts. Tyrrell MR, et al. **Eur J Vasc Endovasc Surg** 1997 Jul; 14(1):33–6

The use of intravascular ultrasound as control procedure for the deployment of endovascular stented grafts. Vogt KC, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):592–6

Improved endothelial cell attachment on ePTFE vascular grafts pretreated with synthetic RGD–containing peptides. Wallusche KP, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):321–30

Replacement of the abdominal aorta in a young patient with neurofibromatosis and massive retroperitoneal haemorrhage. Wigger P, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):337–9

Tissue glue for PTFE grafts [letter] Wilkins D, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):342

Results of electroencephalographic monitoring during 369 consecutive carotid artery revascularizations. Ballotta E, et al. **Eur Neurol** 1997;37(1):43–7

Juxtarenal aortic aneurysm: endoluminal transfemoral repair? Ferko A, et al. **Eur Radiol** 1997;7(5):703–7

Transcatheter Inoue endovascular graft for treatment of canine aortic dissection. Htay T, et al. **Heart Vessels** 1996; 11(2):80–5

Increase in the lumen of the femoral artery in dogs with an arteriotomy encircled by glutaraldehyde–tanned calf pericardium. Sotelo J, et al. **Heart Vessels** 1996; 11(6):318–21

Portal vein graft rectal evacuation after Whipple procedure. the Fabrizio's disease. Aldrighetti L, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1638–9

Extrahepatic portal venous laceration in TIPS treated with stent graft placement. Krajina A, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):667–70

Aortoaortic bypass: indications, techniques and results. Airan B, et al. **Indian Heart J** 1997 May–Jun;49(3):303–8

Aortoarteritis involving supra–aortic trunks: a profile of six cases. Bhattacharyya S, et al. **Indian Heart J** 1997 May–Jun; 49(3):292–6

Optimal dose and duration of heparin for inhibition of intimal hyperplasia. Ao PY, et al. **Int Angiol** 1997 Jun;16(2):94–100

The role of profunda femoris revascularization in aortofemoral surgery. An analysis of factors affecting graft patency. Bastounis E, et al. **Int Angiol** 1997 Jun; 16(2):107–13

Inflammatory response to aorto–bifemoral graft surgery. Pärsson HN, et al. **Int Angiol** 1997 Mar;16(1):55–64

Dilatation of aorto–bifemoral knitted Dacron grafts after a mean implantation of 5 years. Swartbol P, et al. **Int Angiol** 1996 Sep;15(3):236–9

NADPH–diaphorase expression of endothelial cells during four weeks' healing of a stretch–ePTFE graft: an experimental porcine study. Swartbol P, et al. **Int Angiol** 1996 Sep;15(3):225–31

Quantitative analysis of heparin retention on heparin bonded knitted Dacron grafts after exposure to shear stress in vitro. Swartbol P, et al. **Int Angiol** 1996 Sep;15(3):232–5

Dilatable prosthesis for banding the main pulmonary artery: human clinical trials. Vince DJ, et al. **Int J Card Imaging** 1996 Sep;12(3):205–12

Long–term behavior of an arterial autograft: a new role for intimal hyperplasia? Bellón JM, et al. **Int J Microcirc Clin Exp** 1996 Sep–Oct;16(5):240–9

Patients not included in medical audit have a worse outcome than those included. Elfström J, et al. **Int J Qual Health Care** 1996 Apr;8(2):153–7

Stents wrapped in autologous vein: an experimental study. Stefanadis C, et al. **J Am Coll Cardiol** 1996 Oct; 28(4):1039–46

Comparison of survival of an expanded polytetrafluoroethylene graft designed for early cannulation to standard wall polytetrafluoroethylene grafts. Coyne DW, et al. **J Am Coll Surg** 1996 Oct;183(4):401–5

Combined percutaneous transluminal angioplasty, iliac stent deployment, and femorofemoral bypass for bilateral aortoiliac occlusive disease. Lopez–Galarza LA, et al. **J Am Coll Surg** 1997 Mar;184(3):249–58

The role of platelet–derived growth factor in intraluminal stented graft healing. Ombrellaro MP, et al. **J Am Coll Surg** 1997 Jan;184(1):49–57

Graft surveillance and angioplasty prolongs dialysis graft patency. Roberts AB, et al. **J Am Coll Surg** 1996 Nov; 183(5):486–92

Surgical aortic perigraft to right atrial shunt: transesophageal echocardiography findings. Malcolm ID. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):877–9

Anastomotic intimal hyperplasia in prosthetic arteriovenous fistulas for hemodialysis is associated with initial high flow velocity and not with mismatch in elastic properties. Hofstra L, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1625–33

The elution and binding characteristics of rifampicin for three commercially available protein–sealed vascular grafts. Lovering AM, et al. **J Antimicrob Chemother** 1996 Oct; 38(4):599–604

Rifampicin loading of vascular grafts. Malassiney P, et al. **J Antimicrob Chemother** 1996 Jun;37(6):1121–9

Small caliber vascular grafts. Part II: Polyurethanes revisited. Zdrahala RJ. **J Biomater Appl** 1996 Jul;11(1):37–61 (90 ref.)

Small caliber vascular grafts. Part I: state of the art. Zdrahala RJ. **J Biomater Appl** 1996 Apr;10(4):309–29 (24 ref.)

Effects of geometry and flow division on flow structures in models of the distal end–to–side anastomosis. Hughes PE, et al. **J Biomech** 1996 Jul;29(7):855–72

Compliance and diameter mismatch affect the wall shear rate distribution near an end–to–end anastomosis. Weston MW, et al. **J Biomech** 1996 Feb;29(2):187–98

Numerical investigation of steady flow in proximal and distal end–to–side anastomoses. Henry FS, et al. **J Biomech Eng** 1996 Aug;118(3):302–10

Hemodynamic simulations and computer–aided designs of graft–artery junctions. Lei M, et al. **J Biomech Eng** 1997 Aug;119(3):343–8

Measurements of velocity and wall shear stress inside a PTFE vascular graft model under steady flow conditions. Loth F, et al. **J Biomech Eng** 1997 May;119(2):187–94

Enhanced vascularization in a microporous polyurethane graft impregnated with basic fibroblast growth factor and heparin. Doi K, et al. **J Biomed Mater Res** 1997 Mar 5; 34(3):361–70

Biomechanics of human common carotid artery and design of novel hybrid textile compliant vascular grafts. Gupta BS, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):341–9

Improved blood compatibility of segmented polyurethanes by polymeric additives having phospholipid polar groups. I. Molecular design of polymeric additives and their functions. Ishihara K, et al. **J Biomed Mater Res** 1996 Nov; 32(3):391–9

Calcification of polyurethanes implanted subdermally in rats is enhanced by calciphylaxis. Joshi RR, et al. **J Biomed Mater Res** 1996 Jun;31(2):201–7

Development and characterization of an alginate–impregnated polyester vascular graft. Lee JH, et al. **J Biomed Mater Res** 1997 Aug;36(2):200–8

In vitro and in vivo studies of a polyester arterial prosthesis with a warp–knitted sharkskin structure. Mary C, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):459–72

Surface microarchitectural design in biomedical applications: in vitro transmural endothelialization on microporous segmented polyurethane films fabricated using an excimer laser. Matsuda T, et al. **J Biomed Mater Res** 1996 Jun; 31(2):235–42

Dilative characteristics of Microvel and Vasculour–II aortic bifurcation grafts. Nunn DB, et al. **J Biomed Mater Res** 1996 Jan;30(1):41–6

Performance of small diameter synthetic vascular prostheses with confluent autologous endothelial cell linings. Poole–Warren LA, et al. **J Biomed Mater Res** 1996 Feb; 30(2):221–29

Surface adhesion molecule expression on human blood cells induced by vascular graft materials in vitro. Swartbol P, et al. **J Biomed Mater Res** 1996 Dec;32(4):669–76

Total extracardiac right heart bypass using a polytetrafluoroethylene graft. Iemura J, et al. **J Card Surg** 1997 Jan–Feb;12(1):32–6

One–stage repair of pulmonary atresia with ventricular septal defect and major aortopulmonary collateral arteries by a handmade trifurcated valved conduit. Yang YJ, et al. **J Card Surg** 1996 Mar–Apr;11(2):151–4

Experience with the use of polytetrafluoroethylene pericardial membrane (preclude pericardial membrane) for retroperitoneal closure after abdominal aortic surgery. Abad C. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):283–6

Evaluation of a polyester collagen–coated heparin bonded vascular graft. Becquemin JP, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):7–14

Albumin as a sealant for a polyester vascular prosthesis: its impact on the healing sequence in humans. Chafke N, et al. **J Cardiovasc Surg (Torino)** 1996 Oct;37(5):431–40

Temporary axillo–femoral bypass graft for renal transplant protection during aortic aneurysm repair. Giulini SM, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):575–8

Apico–aortic shunt: a support technique during surgery on the descending thoracic aorta. Kuribayashi R, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):271–6

Exclusion of an internal carotid aneurysm by a covered stent. Ruebben A, et al. **J Cardiovasc Surg (Torino)** 1997 Jun; 38(3):301–3

Combined surgical and endovascular treatment of a traumatic pseudo–aneurysm of the brachiocephalic trunk with anatomical anomaly. Ruebben A, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):173–6

Directly visualized cerebral circulation during retrograde cerebral perfusion. Yoshimura N, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):553–6

Membranous obstruction of the inferior vena cava and Budd–Chiari syndrome. Report of a case. Zamboni P, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):583–7

Spiral CT angiography in the assessment of abdominal aortic aneurysms after stent grafting: value of maximum intensity projections. Dorffner R, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):472–7

Endoluminal repair of large abdominal aortic aneurysms using PTFE: a feasibility study. Adiseshiah M, et al. **J Endovasc Surg** 1997 Aug;4(3):286–9

Suitability of abdominal aortic aneurysms for endovascular repair: it's not the size....[comment] Allen RC, et al. **J Endovasc Surg** 1997 Aug;4(3):284–5. Comment on: J Endovasc Surg 1997 Aug;4(3):279–83.

Influence of abdominal aortic aneurysm size on the feasibility of endovascular repair [see comments] Armon MP, et al. **J Endovasc Surg** 1997 Aug;4(3):279–83. Comment in: J Endovasc Surg 1997 Aug;4(3):284–5.

Iliac and femoropopliteal lesions: evaluation of balloon angioplasty and classical surgery. Becquemin JP, et al. **J Endovasc Surg** 1995 Feb;2(1):42–50

Leaks after endovascular therapy for aneurysm: detection and classification. Beebe HG, et al. **J Endovasc Surg** 1996 Nov;3(4):445–8

Imaging modalities for aortic endografting. Beebe HG. **J Endovasc Surg** 1997 May;4(2):111–23 (28 ref.)

Two–center German experience with aortic endografting. Blum U, et al. **J Endovasc Surg** 1997 May;4(2):137–46

Superficial femoral endarterectomy with intra–arterial PTFE grafting. Bray AE. **J Endovasc Surg** 1995 Aug;2(3):297–301

Surgical reconstruction of the iliac arteries prior to endovascular aortic aneurysm repair. Chuter TA, et al. **J Endovasc Surg** 1997 Aug;4(3):307–11

European experience with a system for bifurcated stent–graft insertion. Chuter TA, et al. **J Endovasc Surg** 1997 Feb; 4(1):13–22

The Italian trial of endovascular AAA exclusion using the Parodi endograft. Coppi G, et al. **J Endovasc Surg** 1997 Aug;4(3):299–306

Endoluminal grafting for aneurysmal and occlusive disease in the superficial femoral artery: early experience. Diethrich EB, et al. **J Endovasc Surg** 1995 Aug;2(3):225–39

Evaluation of endovascular abdominal aortic aneurysm repair: anatomical classification, procedural success, clinical assessment, and data collection. Dorros G, et al. **J Endovasc Surg** 1997 May;4(2):203–25 (8 ref.)

Efficacy determination of endovascular AAA exclusion [comment] Haji–Aghaii M, et al. **J Endovasc Surg** 1997 Aug;4(3):298 (2 ref.). Comment on: J Endovasc Surg 1997 Aug;4(3):290–7.

The need for clinical trials of endovascular abdominal aortic aneurysm stent–graft repair: The EUROSTAR Project. EUROpean collaborators on Stent–graft Techniques for abdominal aortic Aneurysm Repair. Harris PL, et al. **J Endovasc Surg** 1997 Feb;4(1):72–7; discussion 78–9 (15 ref.)

Postoperative color flow duplex scanning in aortic endografting. Heilberger P, et al. **J Endovasc Surg** 1997 Aug;4(3):262–71

Initial experience with the Cragg Endopro System 1 for intraluminal treatment of peripheral vascular disease. Henry M, et al. **J Endovasc Surg** 1994 Sep;1:31–43

Angioscopic evaluation of an endoluminal aortic graft: the first clinical experience. Hill BB, et al. **J Endovasc Surg** 1995 Aug;2(3):248–54

Abdominal aortic aneurysms: experience with the Ivancev–Malmö endovascular system for aortomonoiliac stent–grafts. Ivancev K, et al. **J Endovasc Surg** 1997 Aug; 4(3):242–51

Endovascular repair of an ascending aorta–to–left common femoral artery graft with aneurysmal degeneration. Jaff MR, et al. **J Endovasc Surg** 1995 May;2(2):189–95

Successful endoluminal repair of arterial aneurysms by Wallstent prosthesis and PTFE graft: preliminary results with a new technique. Krajcer Z, et al. **J Endovasc Surg** 1997 Feb;4(1):80–7

Intravenous intravascular ultrasound for arterial visualization: a feasibility study [see comments] Kriegel AV, et al. **J Endovasc Surg** 1996 Nov;3(4):429–34. Comment in: J Endovasc Surg 1996 Nov;3(4):435.

Changing aneurysmal morphology after endovascular grafting: relation to leakage or persistent perfusion [see comments] Malina M, et al. **J Endovasc Surg** 1997 Feb; 4(1):23–30. Comment in: J Endovasc Surg 1997 Feb;4(1):31–2.

The ins and outs of the excluded abdominal aortic aneurysm: decreasing diameters and dilating necks [comment] May J. **J Endovasc Surg** 1997 Feb;4(1):31–2 (6 ref.). Comment on: J Endovasc Surg 1997 Feb;4(1):23–30.

Endoluminal grafting of abdominal aortic aneurysms: causes of failure and their prevention. May J, et al. **J Endovasc Surg** 1994 Sep;1:44–52

The EVT tube and bifurcated endograft systems: technical considerations and clinical summary. EVI Investigators. Moore WS. **J Endovasc Surg** 1997 May;4(2):182–94 (12 ref.)

Biological responses to endovascular treatment of abdominal aortic aneurysms. Norgren L, et al. **J Endovasc Surg** 1997 May;4(2):169–73 (8 ref.)

Endovascular treatment of abdominal aortic aneurysms: lessons learned. Parodi JC, et al. **J Endovasc Surg** 1997 May;4(2):102–10 (20 ref.)

Endovascular graft repair of penetrating subclavian artery injuries. Patel AV, et al. **J Endovasc Surg** 1996 Nov; 3(4):382–8

Ethical and legal issues related to endovascular graft investigation and early usage [editorial] Veith FJ, et al. **J Endovasc Surg** 1997 Feb;4(1):66–71

A new nonstented balloon–expandable graft for straight or bifurcated endoluminal bypass. White GH, et al. **J Endovasc Surg** 1994 Sep;1:16–24

Endoleak—a proposed new terminology to describe incomplete aneurysm exclusion by an endoluminal graft [letter] White GH, et al. **J Endovasc Surg** 1996 Feb; 3(1):124–5

Intravascular ultrasound: the ultimate tool for abdominal aortic aneurysm assessment and endovascular graft delivery. White RA, et al. **J Endovasc Surg** 1997 Feb; 4(1):45–55 (12 ref.)

Magnetic resonance imaging evaluation of the ascending aorta after graft–inclusion surgery: comparison between an ultrafast contrast–enhanced MR sequence and conventional cine–MRI. Loubeyre P, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):478–83

Combined coronary and femoral revascularization using an ascending aorta to bifemoral bypass. Fabiani JN, et al. **J Med Liban** 1995;43(3):142–5

Distal anastomotic vein cuff and the use of an internal vessel occluder. Chalmers RT, et al. **J R Coll Surg Edinb** 1997 Jun;42(3):171–2

Infrageniculate vein bypass graft for critical limb ischaemia: one surgeon's experience. Macaulay EM, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):391–4

Increased patency of artificial microvascular grafts using arteriovenous fistula loops: a two–stage procedure for lengthening the pedicle of free–tissue transfer. Choi ML, et al. **J Reconstr Microsurg** 1996 Jul;12(5):283–90

Anti–thrombogenic effects of 2–hydroxyethylmethacrylate–styrene block copolymer and argatroban in synthetic small–caliber vascular grafts in a rabbit inferior vena cava model. Terada S, et al. **J Reconstr Microsurg** 1997 Jan;13(1):9–16

Elution of six antibiotics bonded to polyethylene vascular grafts sealed with three proteins. Galdbart JO, et al. **J Surg Res** 1996 Dec;66(2):174–8

Analysis of the hemodynamics of a bypass with adjunctive arterio–venous fistula using a direct electrical circuit model. Spivak H, et al. **J Surg Res** 1996 Jul 1;63(2):381–6

Rapid postincubation endothelial retention by Dacron grafts. Sugawara Y, et al. **J Surg Res** 1997 Feb 1;67(2):132–6

Healing mechanisms of high–porosity PTFE grafts: significance of transmural structure. Tsuchida H, et al. **J Surg Res** 1997 Aug;71(2):187–95

Evaluation of various methods to quantify endothelial cells attached to vascular prostheses: comparison with a new "gold standard" FACS method. Visser MJ, et al. **J Surg Res** 1996 Feb 15;61(1):237–43

Takedown of Glenn shunts in adults with congenital heart disease with polytetrafluoroethylene grafts: technique and long–term follow–up. Bruckheimer E, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):607–8

Clinical endovascular placement of branched graft for type B aortic dissection. Inoue K, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1111–3

Extended aortic replacement for acute type A dissection with the tear in the descending aorta. Kazui T, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):973–8

Mechanisms underlying degeneration of cryopreserved vascular homografts. Neves JP, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1014–21

Stented elephant trunk procedure for an extensive aneurysm involving distal aortic arch and descending aorta. Suto Y, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1389–90

Treatment of ostial renal–artery stenoses with vascular endoprostheses after unsuccessful balloon angioplasty. Novick AC. **J Urol** 1997 Sep;158(3 Pt 1):983

Treatment of a failed bifurcated abdominal aortic stent graft with thrombolysis and Wallstent placement. Amesur NB, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):795–8

Inflammatory aneurysm treated by means of transfemoral endovascular graft insertion. Chuter T, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):39–41

Endovascular management of a traumatic subclavian arteriovenous fistula. Gomez–Jorge JT, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):599–602

Percutaneous intervention for permanent hemodialysis access: a review. Gray RJ. **J Vasc Interv Radiol** 1997 May–Jun;8(3):313–27 (105 ref.)

Embolization of perigraft leaks after endovascular stent–graft treatment of aortic aneurysms. Kato N, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):805–11

Endovascular stent grafts: the beginning of the future, or the beginning of the end? Katzen BT. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):469–76

Embolization of backbleeding lumbar arteries filling an aortic aneurysm sac after endovascular stent–graft placement. Khilnani NM, et al. **J Vasc Interv Radiol** 1996 Nov–Dec; 7(6):813–7

Vascular graft puncture. Nemcek A Jr. **J Vasc Interv Radiol** 1996 May–Jun;7(3):377–8

Physical properties of polytetrafluoroethylene bypass material after balloon dilation. Palmaz F, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):657–63

Fenestrated stent–grafts for preserving visceral arterial branches in the treatment of abdominal aortic aneurysms: preliminary experience. Park JH, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):819–23

Percutaneous treatment of peripheral aneurysms with the Cragg EndoPro System. Rousseau H, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):35–9

Acute rupture of the descending thoracic aorta: repair with use of endovascular stent–grafts. Semba CP, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):337–42

How to Build a Blood Vessel, Vascular Disease Symposium. Bethesda, Maryland, February 27–28, 1997. Abstracts. **J Vasc Surg** 1997 Jun;25(6):1087–116

Prospective randomized trial of carotid endarterectomy with primary closure and patch angioplasty with saphenous vein, jugular vein, and polytetrafluoroethylene: perioperative (30–day) results [see comments] AbuRahma AF, et al. **J Vasc Surg** 1996 Dec;24(6):998–1006; discussion 1006–7. Comment in: J Vasc Surg 1997 Jun;25(6):1118–20.

Reporting standards for infrarenal endovascular abdominal aortic aneurysm repair. Ad Hoc Committee for Standardized Reporting Practices in Vascular Surgery of The Society for Vascular Surgery/International Society for Cardiovascular Surgery. Ahn SS, et al. **J Vasc Surg** 1997 Feb;25(2):405–10

Retroviral–mediated transduction of endothelial cells with the lac Z gene impairs cellular proliferation in vitro and graft endothelialization in vivo. Baer RP, et al. **J Vasc Surg** 1996 Nov;24(5):892–9

Computed tomographic angiographic imaging of abdominal aortic aneurysms: implications for transfemoral endovascular aneurysm management. Balm R, et al. **J Vasc Surg** 1997 Aug;26(2):231–7

Morphologic assessment of abdominal aortic aneurysms by spiral computed tomographic scanning. Bayle O, et al. **J Vasc Surg** 1997 Aug;26(2):238–46

Hemodynamic impact of vein graft stenoses and their prediction in the vascular laboratory. Belkin M, et al. **J Vasc Surg** 1997 Jun;25(6):1016–21; discussion 1022

Clinical experience with a bifurcated endovascular graft for abdominal aortic aneurysm repair. Chuter TA, et al. **J Vasc Surg** 1996 Oct;24(4):655–66

In vitro endothelialization of expanded polytetrafluoroethylene grafts: a clinical case report after 41 months of implantation. Deutsch M, et al. **J Vasc Surg** 1997 Apr;25(4):757–63

Durability of early prosthetic dialysis graft cannulation: results of a prospective, nonrandomized clinical trial. Hakaim AG, et al. **J Vasc Surg** 1997 Jun;25(6):1002–5; discussion 1005–6

Production of endothelium–derived factors from sodded expanded polytetrafluoroethylene grafts. Lewis DA, et al. **J Vasc Surg** 1997 Jan;25(1):187–97

Prophylactic balloon angioplasty fails to prolong the patency of expanded polytetrafluoroethylene arteriovenous grafts: results of a prospective randomized study. Lumsden AB, et al. **J Vasc Surg** 1997 Sep;26(3):382–90; discussion 390–2

Nonporous silicone polymer coating of expanded polytetrafluoroethylene grafts reduces graft neointimal hyperplasia in dog and baboon models. Lumsden AB, et al. **J Vasc Surg** 1996 Nov;24(5):825–33

Reduction in aortic aneurysm size: early results after endovascular graft placement. EVT Investigators. Matsumura JS, et al. **J Vasc Surg** 1997 Jan;25(1):113–23

Endovascular treatment of infrarenal abdominal aneurysms by the Stentor system: preliminary results of 79 cases. Stentor Retrospective Study Group. Mialhe C, et al. **J Vasc Surg** 1997 Aug;26(2):199–209

Simultaneous abdominal aortic replacement and thoracic stent–graft placement for multilevel aortic disease. Moon MR, et al. **J Vasc Surg** 1997 Feb;25(2):332–40

Endovascular aortounifemoral grafts and femorofemoral bypass for bilateral limb–threatening ischemia. Ohki T, et al. **J Vasc Surg** 1996 Dec;24(6):984–96; discussion 996–7

Efficacy of local inhibition of procoagulant activity associated with small–diameter prosthetic vascular grafts. Oltrona L, et al. **J Vasc Surg** 1996 Oct;24(4):624–31

Platelet–derived growth factor production by cells from Dacron grafts implanted in a canine model. Pitsch RJ, et al. **J Vasc Surg** 1997 Jul;26(1):70–8

Regarding "Endoluminal repair of atypical dissecting aneurysm of descending thoracic aorta and fusiform aneurysm of the abdominal aorta" [letter; comment] Sandmann W. **J Vasc Surg** 1996 Oct;24(4):698–700. Comment on: J Vasc Surg 1995 Aug;22(2):167–72.

Validation of a new and specific intraoperative measurement of vein graft resistance. Schwartz LB, et al. **J Vasc Surg** 1997 Jun;25(6):1033–41; discussion 1041–3

Endothelium on the flow surface of human aortic Dacron vascular grafts. Shi Q, et al. **J Vasc Surg** 1997 Apr; 25(4):736–42

Balloon–expandable endobypass for femoropopliteal atherosclerotic occlusive disease. A preliminary evaluation of fifty–five patients. Spoelstra H, et al. **J Vasc Surg** 1996 Oct;24(4):647–54

Preliminary clinical outcome and imaging criterion for endovascular prosthesis development in high–risk patients who have aortoiliac and traumatic arterial lesions. White RA, et al. **J Vasc Surg** 1996 Oct;24(4):556–69; discussion 569–71

Regression of an abdominal aortic aneurysm after endograft exclusion. White RA, et al. **J Vasc Surg** 1997 Jul; 26(1):133–7

Evaluation of a modular endovascular bifurcation prosthesis in a canine aortic aneurysm model. White RA, et al. **J Vasc Surg** 1996 Dec;24(6):1034–42

Implant site influence on arterial prosthesis healing: a comparative study with a triple implantation model in the same dog. Wu MH, et al. **J Vasc Surg** 1997 Mar; 25(3):528–36

Grafts vs fistulas for hemodialysis patients: equal access for all? [editorial; comment] Chertow GM. **JAMA** 1996 Oct 23–30;276(16):1343–4. Comment on: JAMA 1996 Oct 23–30;276(16):1303–8.

Percutaneous interventions to support failing hemodialysis fistulas and grafts. Vorwerk D. **Kidney Blood Press Res** 1997;20(3):145–7

Experimental studies on modified human ureter as an arterial substitution for reconstruction of small caliber vessels. Uematsu M, et al. **Kobe J Med Sci** 1996 Oct;42(5):291–306

Results of axillofemoral by–passes for aorto–iliac occlusive disease. Illuminati G, et al. **Langenbecks Arch Chir** 1996; 381(4):212–7

Repair of abdominal aortic aneurysms by the endoluminal method: outcome in the first 100 patients. May J, et al. **Med J Aust** 1996 Nov 18;165(10):549–51

Current therapy for infrarenal aortic aneurysms [editorial; comment] [see comments] Ernst CB. **N Engl J Med** 1997 Jan 2;336(1):59–60. Comment on: N Engl J Med 1997 Jan 2;336(1):13–20. Comment in: N Engl J Med 1997 Jan 12;336(24):1756; discussion 1757–8.

Infrarenal aortic aneurysms [letter; comment] Matsumura JS, et al. **N Engl J Med** 1997 Jun 12;336(24):1756; discussion 1757. Comment on: N Engl J Med 1997 Jan 2;336(1):13–20.

Infrarenal aortic aneurysms [letter; comment] Yusuf SW, et al. **N Engl J Med** 1997 Jun 12;336(24):1756; discussion 1757–8. Comment on: N Engl J Med 1997 Jan 2;336(1):59–60.

Hydrodynamic thrombectomy of haemodialysis grafts and fistulae: results of 51 procedures. Vorwerk D, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1058–64

Mycotic aneurysm after aortic bifurcation prosthesis. Galema L, et al. **Neth J Med** 1996 Mar;48(3):105–8

Treatment of multiple cerebral emboli from an ulcerated, thrombogenic ascending aorta with aortectomy and graft replacement. Belden JR, et al. **Neurology** 1997 Aug;

49(2):621–2
Influence of twist on vein and PTFE graft hemodynamics: an ex vivo experimental study. Karacagil S, et al. **Panminerva Med** 1997 Jun;39(2):95–9
Extension of the Taylor patch concept to infrainguinal sequential arterial bypass. Mukherjee D. **Panminerva Med** 1997 Jun;39(2):132–5
Suggested approach for end to side anastomosis to the abdominal aorta in aorto–femoral bypass grafting for aorto–iliac occlusive disease. Nazem N, et al. **Panminerva Med** 1996 Sep;38(3):199–200
Healing of polytetrafluoroethylene vascular grafts analyzed by anti–smooth muscle myosin heavy chain isoforms. Okahara K, et al. **Pathobiology** 1995;63(3):160–7
Congestive heart failure with tetralogy of Fallot relieved by an aortopulmonary shunt. Watson DG, et al. **Pediatr Cardiol** 1997 Sep–Oct;18(5):381–4
Wall enhancement of leaking polytetrafluoroethylene grafts: a new CT sign. Fink AM, et al. **Pediatr Radiol** 1997 Apr; 27(4):327–9
Treatment of abdominal aortic aneurysms with transfemoral placement of stent–grafts: complications and secondary radiologic intervention. Dorffner R, et al. **Radiology** 1997 Jul;204(1):79–86
Endovascular aortic stent–grafts: transcatheter embolization of persistent perigraft leaks. Golzarian J, et al. **Radiology** 1997 Mar;202(3):731–4
Iliac arteries: plain and heparin–coated Dacron–covered stent–grafts compared with noncovered metal stents—an experimental study. Schürmann K, et al. **Radiology** 1997 Apr;203(1):55–63
Endovascular stent graft repair of thoracic aortic aneurysms. Mitchell RS. **Semin Thorac Cardiovasc Surg** 1997 Jul; 9(3):257–68
Bypass grafting for chronic mesenteric ischemia. Shanley CJ, et al. **Surg Clin North Am** 1997 Apr;77(2):381–95
Modified Bentall operation with concomitant total aortic arch replacement for DeBakey type I aortic dissection: report of a case. Katoh T, et al. **Surg Today** 1997; 27(4):373–5
Extensive replacement of the aorta from the ascending aorta to the supraceliac abdominal aorta during a one–stage operation. Murashita T, et al. **Surg Today** 1997;27(4):368–72
Emergency aortic arch replacement in a patient with idiopathic thrombocytopenic purpura. Usui A, et al. **Surg Today** 1996;26(10):828–30
False aneurysm of the axillary artery caused by graft infection: report of a case. Yamamoto K, et al. **Surg Today** 1997;27(4):376–8
Salvage of a twisted distal splenorenal shunt graft by using metallic endoprosthesis. Owens CA, et al. **Surgery** 1997 Apr;121(4):465–7
Revascularization of the solitary kidney: a challenging problem in a high risk population. Reilly JM, et al. **Surgery** 1996 Oct;120(4):732–6; discussion 736–7
Does the direction of portal blood flow determine outcome with small–diameter prosthetic H–graft portacaval shunt? Rosemurgy AS 2nd, et al. **Surgery** 1997 Jan;121(1):95–101
Endoluminal exclusion of an iliac artery aneurysm by Wallstent endoprosthesis and PTFE vascular graft. Krajcer Z, et al. **Tex Heart Inst J** 1997;24(1):11–4
Spinal cord protection in descending and thoracoabdominal aortic surgery—the role of distal perfusion. Bonatti J, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):136–9
Repair of coarctation of the aorta in adults with simultaneous aortic valve replacement and coronary artery bypass grafting. Thomka I, et al. **Thorac Cardiovasc Surg** 1997 Apr; 45(2):93–6
Surface coverage of vascular grafts with cultured human endothelial cells from subcutaneous fat tissue obtained with a biopsy needle. Koyama M, et al. **Thromb Haemost** 1996 Oct;76(4):610–4
Failure patterns of cryopreserved vein grafts in liver transplantation. Kuang AA, et al. **Transplantation** 1996 Sep 27;62(6):742–7 (21 ref.)
Portal vein thrombosis and stenosis in pediatric liver transplantation. Millis JM, et al. **Transplantation** 1996 Sep 27;62(6):748–54 (24 ref.)
Urgent revascularization of liver allografts after early hepatic artery thrombosis. Pinna AD, et al. **Transplantation** 1996 Dec 15;62(11):1584–7
Gasless videoendoscopic implantation of aortobifemoral vascular prostheses via a transperitoneal approach—an animal experiment. Bruns CJ, et al. **Vasa** 1997 May; 26(2):102–9
Effects of adjuvant PGE1 therapy following profundaplasty in patients with severe limb ischaemia. Early and long–term results. Gruss JD. **Vasa** 1997 May;26(2):117–21
A new surgical technique for the treatment of life–threatening congenital arteriovenous malformation—intraluminal graft implantation. Ohta T, et al. **Vasa** 1997 May;26(2):128–31
The use of radionuclide angiography to study blood flow through endothelial cell seeded extrathoracic bypass grafts in the dog. Sackman JE, et al. **Vet Radiol Ultrasound** 1997 Mar–Apr;38(2):150–5
A randomised trial of fibrin sealant in peripheral vascular surgery. Milne AA, et al. **Vox Sang** 1996;70(4):210–2
[Smooth intramural and kink–resistant polyester vascular prosthesis] Rao T, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Nov;76(11):841–4 (Eng. Abstr.) **(Chi)**
[Obturator bypass—a method of extra–anatomic reconstruction in the region of the femoral trigone] Marušiak J, et al. **Rozhl Chir** 1997 Feb;76(2):56–8 (Eng. Abstr.) **(Cze)**
[Value of carbon in the thrombogenicity of cardiovascular prostheses] Babatasi G, et al. **Ann Cardiol Angeiol (Paris)** 1997 Jan;46(1):7–14 (Eng. Abstr.) **(Fre)**
[Popliteal aneurysm: surgical treatment is mandatory before complications occur] Poirier NC, et al. **Ann Chir** 1996; 50(8):613–8 (Eng. Abstr.) **(Fre)**
[Development of circulatory support during 420 aneurysm resections of the descending thoracic aorta] Verdant A, et al. **Ann Chir** 1996;50(8):619–25 (Eng. Abstr.) **(Fre)**
[False anastomotic aneurysms after aorto–femoral prosthesis. Detection, prevention and treatment] Melliere D, et al. **J Mal Vasc** 1996;21(3):158–64 (Eng. Abstr.) **(Fre)**
[Anesthesia in endovascular treatment of aortic aneurysm. Results and perioperative risks] Eberle B, et al. **Anaesthesist** 1996 Oct;45(10):931–40 (Eng. Abstr.) **(Ger)**
[The superficial femoral vein in aorto–iliac position—suitable as autogenous vascular replacement in deep prosthesis infection?] Franke S, et al. **Chirurg** 1996 Aug;67(8):843–9 (Eng. Abstr.) **(Ger)**
[Infection of a vascular prosthesis—a retrospective analysis of 99 cases] Hennes N, et al. **Chirurg** 1996 Jan;67(1):37–43 (Eng. Abstr.) **(Ger)**
[Acceptance and effectiveness of surgical vascular consultation. Comment on the contribution by Graupe et al. (letter; comment)] Klein M. **Chirurg** 1996 Jul;67(7):764–6 . Comment on: Chirurg 1995 Dec;66(12):1239–44; discussion 1245–6. **(Ger)**
[The heterotopic ossification of a Dacron prosthesis in peripheral arterial occlusive disease (letter; comment)] Liebermeister E. **Dtsch Med Wochenschr** 1997 May 16; 122(20):667. Comment on: Dtsch Med Wochenschr 1996 Dec 20;121(51–52):1621. **(Ger)**
[Current status of abdominal aortic aneurysm therapy (editorial)] Allenberg JR. **Langenbecks Arch Chir** 1997; 382(3):117–8 **(Ger)**
[Long–term outcome after reconstructive interventions of the aorto–iliac segment] Kirsch D, et al. **Langenbecks Arch Chir** 1997;382(1):49–54 (Eng. Abstr.) **(Ger)**
[Effect of endovascular surgery of infrarenal aortic aneurysms on circulating endothelial adhesion molecules, cytokines and proteinase inhibitors] Schumacher H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:15–9 (Eng. Abstr.) **(Ger)**
[Prospective preoperative morphometry of abdominal aortic aneurysms: selective patient management for endovascular surgery] Schumacher H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:875–7 (Eng. Abstr.) **(Ger)**
[Vascular reconstruction and/or amputation in severely handicapped patients] Schwilden ED. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:866–9 (Eng. Abstr.) **(Ger)**
[Magnetic resonance tomography and magnetic resonance angiography in diagnosis of complicated popliteal artery aneurysm] Kolb M, et al. **Radiologe** 1997 Feb;37(2):145–51 (Eng. Abstr.) **(Ger)**
[Urologic complications after implantation of aortofemoral blood vessel prosthesis] Knopf HJ, et al. **Urologe A** 1996 Nov;35(6):472–7 (Eng. Abstr.) **(Ger)**
[Supra–aortic bypasses for revascularization of the subclavian artery: early and late results of extra–thoracic and transthoracic methods: are extra–anatomic conduits superior?] Wittwer T, et al. **Vasa** 1996;25(3):249–56 (Eng. Abstr.) **(Ger)**
[Endoventricular patch–plasty for reconstruction of ventricular geometry and pump function in myocardial aneurysm] Bohm J, et al. **Z Kardiol** 1996;85 Suppl 4:43–6; discussion 47–8 (Eng. Abstr.) **(Ger)**
[Spiral CT and 3–dimensional reconstruction in evaluation of systemic venous obstruction after atrial switch operation for complete transposition of great vessels] Kaemmerer H, et al. **Z Kardiol** 1996 Oct;85(10):790–7 (Eng. Abstr.) **(Ger)**
[Acute type A dissection of the ascending aorta after aortocoronary bypass operation] Staubach P, et al. **Z Kardiol** 1996 Sep;85(9):668–72 (Eng. Abstr.) **(Ger)**
[Preliminary results of a prospective randomized study vascular replacement above the knee] Erasmi H, et al. **Zentralbl Chir** 1996;121(3):228–33 (Eng. Abstr.) **(Ger)**
[Femoropopliteal vascular replacement: vein, ePTFE or ovine collagen?] Koch G, et al. **Zentralbl Chir** 1996; 121(9):761–7 (Eng. Abstr.) **(Ger)**
[Clinical experience with a new antimicrobially coated InterGard–IgK/AM vascular prosthesis in surgical treatment of deep wound infection with involvement of the synthetic bypass: report of 2 cases] Manouguian S. **Zentralbl Chir** 1996;121(9):768–72; discussion 772–3 (Eng. Abstr.) **(Ger)**
[Initial clinical experiences with endovascular stent–grafts for treatment of infrarenal abdominal aortic aneurysm] Spillner G, et al. **Zentralbl Chir** 1996;121(9):727–33 (Eng. Abstr.) **(Ger)**
[Difficulties and complications in transfemoral implantation of stent prostheses in infrarenal abdominal aortic aneurysms] Stelter WJ, et al. **Zentralbl Chir** 1996; 121(9):734–43 (Eng. Abstr.) **(Ger)**
[The use of coronary artery prostheses (letter; comment)] Lozsádi K. **Orv Hetil** 1997 Aug 10;138(32):2042. Comment on: Orv Hetil 1997 Feb 9;138(6):349–51. **(Hun)**
[Postoperative evaluation of vascular bifurcation prostheses by means of helical CT] Simoni G, et al. **Minerva Cardioangiol** 1996 May;44(5):223–7 (Eng. Abstr.) **(Ita)**
[Surgical therapy for prosthetic infections of the thoracic aorta. Conservative approach] Spirito R, et al. **Minerva Cardioangiol** 1997 Mar;45(3):101–6 (Eng. Abstr.) **(Ita)**
[Use of autotransfusion in prosthetic surgery of the abdominal aorta] Tridico F, et al. **Minerva Cardioangiol** 1996 Sep; 44(9):461–6 (Eng. Abstr.) **(Ita)**
[Bifurcated prosthesis in infrarenal aortic position in stenosing lesions. Functional results] Illuminati G, et al. **Minerva Chir** 1997 Jun;52(6):789–94 (Eng. Abstr.) **(Ita)**
[Antithrombotic property of new growing endothelial cells on the prosthetic vascular grafts—experimental study of portal vein replacement] Ohtake S. **Hokkaido Igaku Zasshi** 1997 Jan;72(1):43–57 (Eng. Abstr.) **(Jpn)**
[Superior vena cava replacement] Esato K. **Kyobu Geka** 1997 Jul;50(7):561 **(Jpn)**
[A successful case of infrarenal abdominal aortic replacement against acute abdominal organ failures and ischemia of bilateral lower limbs following the operation of DeBakey IIIb–type dissecting aneurysm] Gu K, et al. **Kyobu Geka** 1996 Dec;49(13):1100–3 (Eng. Abstr.) **(Jpn)**
[A case report of coronary artery bypass grafting (CABG) and graft replacement of the ascending aorta for coronary artery disease associated with dissection of the ascending aorta] Hanada T, et al. **Kyobu Geka** 1997 Jul;50(7):557–9 (Eng. Abstr.) **(Jpn)**
[Superior vena cava replacement] Hasegawa T. **Kyobu Geka** 1997 Jul;50(7):560 **(Jpn)**
[A case report on graft replacement of ruptured aneurysm of the arch and the descending thoracic aorta associated with dense pulmonary adhesion] Hirai M, et al. **Kyobu Geka** 1996 May;49(5):367–71 (16 ref.) (Eng. Abstr.) **(Jpn)**
[A case report of total aortic arch replacement for distal aortic arch aneurysm in an octogenarian] Inaoka M, et al. **Kyobu Geka** 1997 Mar;50(3):226–9 (Eng. Abstr.) **(Jpn)**
[Concomitant composite graft replacement of the aortic root and the aortic arch for type A aortic dissection] Kikuchi Y, et al. **Kyobu Geka** 1997 Jun;50(6):469–74 (Eng. Abstr.) **(Jpn)**
[A case report of ruptured distal aortic arch aneurysm into pericardial space] Koshino T, et al. **Kyobu Geka** 1997 Mar; 50(3):205–8 (Eng. Abstr.) **(Jpn)**
[Replacement of the aortic root with woven and knitted Dacron composite graft] Mashiko K, et al. **Kyobu Geka** 1997 Jul;50(7):540–3 (Eng. Abstr.) **(Jpn)**
[Surgical treatment of aortic stenosis with polycythemia vera: a case report] Matsuyama N, et al. **Kyobu Geka** 1996 Dec; 49(13):1097–9 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Combined surgery for coronary artery disease and thoracic aortic disease] Ohashi H, et al. **Kyobu Geka** 1997 Apr; 50(4):263–7; discussion 267–9 (Eng. Abstr.) **(Jpn)**
[Case report of a thoracoabdominal aneurysm operation using profound hypothermia and circulatory arrest] Okada Y, et al. **Kyobu Geka** 1996 Dec;49(13):1105–9 (Eng. Abstr.) **(Jpn)**
[Simultaneous surgical revascularization for myocardial and peripheral vascular ischemia] Saga T, et al. **Kyobu Geka** 1996 Aug;49(9):745–9 (14 ref.) (Eng. Abstr.) **(Jpn)**
[Abdominal aortic surgery in Stanford type B chronic dissecting aortic aneurysm] Sakurada T, et al. **Kyobu Geka** 1997 Apr;50(4):270–4 (Eng. Abstr.) **(Jpn)**
[A case of successful surgical treatment of recurrent Stanford type A thrombosed aortic dissection] Sakurada T, et al. **Kyobu Geka** 1997 Mar;50(3):223–5 (Eng. Abstr.) **(Jpn)**
[Calcified EPTFE vascular prosthesis in the Blalock–Taussig shunt after 4 years of implantation: a case report] Takanashi Y, et al. **Kyobu Geka** 1997 Jan;50(1):71–3 (Eng. Abstr.) **(Jpn)**
[Postoperative evaluation of presealed vascular prostheses in surgical treatment of the thoracic aorta] Tsutsumi Y, et al. **Kyobu Geka** 1997 May;50(5):358–61 (Eng. Abstr.) **(Jpn)**
[Single–stage correction of coarctation of the aorta with aortic regurgitation] Uchida N, et al. **Kyobu Geka** 1997 Apr;50(4):317–20 (Eng. Abstr.) **(Jpn)**
[Fibrin glue spray treatment on the polytetrafluoroethylene graft] Yamagishi M, et al. **Kyobu Geka** 1997 Apr; 50(4):279–82 (Eng. Abstr.) **(Jpn)**
[Argatroban, a selective thrombin inhibitor, for anticoagulant therapy during and following vascular surgery] Fuji H, et al. **Masui** 1996 Oct;45(10):1289–92 (Eng. Abstr.) **(Jpn)**
[A successful surgical treatment of dissecting thoracoabdominal aortic aneurysm using a heparin coated percutaneous cardiopulmonary support system] Tanaka H, et al. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):524–8 (Eng. Abstr.) **(Jpn)**
[Operative results and long–term prognosis of aortic dissections] Ueda T, et al. **Nippon Geka Gakkai Zasshi** 1996 Oct;97(10):916–20 (8 ref.) (Eng. Abstr.) **(Jpn)**
[Experimental study on preparation of a blood vessel substitute with a small diameter using human ureter and preserved human saphenous vein] Uematsu M, et al.

Nippon Geka Gakkai Zasshi 1996 Nov;97(11):1027 **(Jpn)**
[Clinical study of re-do surgery after Bentall-type operation] Ando M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):606-13 (Eng. Abstr.) **(Jpn)**
[Surgical strategy for Stanford type A aortic dissection with Marfan syndrome] Fukada J, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):724-8 (Eng. Abstr.) **(Jpn)**
[Surgical outcomes of transverse aortic arch replacement] Fukuda I, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):718-23 (Eng. Abstr.) **(Jpn)**
[A case of total arch graft replacement for distal aortic arch aneurysm developed around the site of graft patch aortoplasty] Hachiro Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2172-6 (Eng. Abstr.) **(Jpn)**
[Urgent replacement of aortic arch and descending aorta following replacement of ascending aorta for Stanford a aortic dissection--a case report] Hata H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):102-7 (Eng. Abstr.) **(Jpn)**
[Debakey IIIb aortic dissection from a distal arch atherosclerotic aneurysm--a case report] Hayashi S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):569-71 (9 ref.) (Eng. Abstr.) **(Jpn)**
[Surgical treatment of type A acute aortic dissection--experience of hypothermic circulatory arrest associated with the cerebroplegia] Hirotani T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):556-62 (Eng. Abstr.) **(Jpn)**
[Total cavopulmonary connection using a knitted dacron prosthesis impregnated with gelatin (GELSEAL) as an intracardiac conduit] Iwaya F, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):653-8 (Eng. Abstr.) **(Jpn)**
[Traumatic injuries of the thoracic aorta--report of five cases] Kanazawa S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec; 44(12):2155-63 (Eng. Abstr.) **(Jpn)**
[An alternative technique for coronary reattachment in aortic root replacement--the "shell" button technique] Katsumata T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep; 44(9):1759-62 (Eng. Abstr.) **(Jpn)**
[Stent graft treatment for two cases of DeBakey IIIb dissecting aortic aneurysm] Kawaguchi S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):926-33 (Eng. Abstr.) **(Jpn)**
[Postoperative inflammatory responses to gelatin- and collagen-impregnated Dacron grafts and changes of endotoxin] Kawashima T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):531-5 (Eng. Abstr.) **(Jpn)**
[Two cases of annulo-aortic ectasia with type A aortic dissection reconstructed by reimplantation of the aortic valve] Konishi T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):611-4 (Eng. Abstr.) **(Jpn)**
[Extended total aortic arch replacement involving the proximal descending aorta through a median sternotomy] Kurimoto Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):661-5 (Eng. Abstr.) **(Jpn)**
[A case report of surgical treatment for aneurysm of the brachiocephalic artery associated with tracheal stenosis] Matsushita T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):754-8 (Eng. Abstr.) **(Jpn)**
[Successful aortic root replacement with pulmonary autograft (Ross) in two cases of congenital aortic stenosis] Morita K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr; 45(4):594-600 (Eng. Abstr.) **(Jpn)**
[Clinical experience with the gelatin-resorcine-formol biological glue in acute type A aortic dissection] Moriyama Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May; 45(5):682-6 (Eng. Abstr.) **(Jpn)**
[Extended aortoplasty for supravalvular aortic stenosis with Williams syndrome] Nagasaka S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):601-6 (Eng. Abstr.) **(Jpn)**
[Simultaneous surgical treatment for distal aortic arch aneurysm associated with innominate artery aneurysm and coronary artery disease] Nakashima S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):778-82 (Eng. Abstr.) **(Jpn)**
[A simultaneous operation of aortic root, arch replacement, and sternal elevation for Marfan's syndrome--a case report] Ohhira M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):759-63 (Eng. Abstr.) **(Jpn)**
[Long-term patency after the Blalock-Taussig operation--comparison between classic and modified shunts] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1108-13 (Eng. Abstr.) **(Jpn)**
[Evaluation of coronary artery bypass grafts with magnetic resonance imaging] Okamura Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):801-5 (Eng. Abstr.) **(Jpn)**
[Subtotal aortic replacement in a patient with Marfan's syndrome--replacement of the ascending aorta and entire aortic arch for acute type I aortic dissection 4 years after the thoracoabdominal replacement] Shiiya N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2095-9 (Eng. Abstr.) **(Jpn)**
[Successful surgical repair of acute DeBakey type I aortic dissection complicated by acute occlusion of the suprarenal abdominal aorta] Shiiya N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):682-6 (Eng. Abstr.) **(Jpn)**
[Rupture of the aortic arch due to bacterial aortitis--a case report of a patient undergoing successful surgical therapy] Sudo Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2221-4 (Eng. Abstr.) **(Jpn)**
[Surgical treatment of diffuse supravalvular aortic stenosis with Williams syndrome] Sudoh Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):764-8 (Eng. Abstr.) **(Jpn)**
[David's operation for aortic regurgitation associated with annulo-aortic ectasia] Taketani S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):635-8 (Eng. Abstr.) **(Jpn)**
[Successful surgical repair of composite graft detachment occurred 5 months after combined Bentall's operation and graft replacement with active aortitis syndrome] Tanaka S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan; 45(1):67-72 (Eng. Abstr.) **(Jpn)**
[Staged repair for bilateral ductus arteriosus with pulmonary atresia and non-confluent pulmonary artery--a case report] Yasuda H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct;44(10):1907-11 (Eng. Abstr.) **(Jpn)**
[Surgical management of extracranial internal carotid artery aneurysms] Nagasawa S, et al. **No Shinkei Geka** 1997 Feb; 25(2):143-9 (Eng. Abstr.) **(Jpn)**
[New coronary tube for Cabrol's technique] Yokoyama M, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):160-2 (Eng. Abstr.) **(Jpn)**
[Mega aorta syndrome] Kosuga K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):307-10 (7 ref.) **(Jpn)**
[Intra-arterial thrombolysis in peripheral bypass and arterial occlusions. Results and predictive factors for thrombolysis] Sandbaek G, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20; 116(25):3000-4 (Eng. Abstr.) **(Nor)**
[Intra-arterial thrombolysis in peripheral bypass and arterial occlusions. Preparation and practical procedure] Sandbaek G, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20; 116(25):3011-3 (Eng. Abstr.) **(Nor)**
[Repeated reconstructive operations in late complications of the aorto-iliofemoral segment surgery] Arekelian VS, et al. **Khirurgiia (Mosk)** 1996;(2):99-103 (Eng. Abstr.) **(Rus)**
[Features of surgical technique in the use of vascular polytetrafluoroethylene (Gore-Tex type) prostheses] Belov IuV. **Khirurgiia (Mosk)** 1997;(4):24-8 (Eng. Abstr.) **(Rus)**
[Changes in biomechanical properties of biological and synthetic prostheses] Reichert V, et al. **Khirurgiia (Mosk)** 1997;(4):29-35 (Eng. Abstr.) **(Rus)**
[Assessing the effect of prosthesis of the brachiocephalic trunk] Shipulin VM, et al. **Khirurgiia (Mosk)** 1996;(6):29-33 (Eng. Abstr.) **(Rus)**
[Experimental and clinical research on the Russian Vitaflon blood vessel prosthesis] Lebedev LV, et al. **Vestn Khir Im I I Grek** 1997;156(1):66-70 (Eng. Abstr.) **(Rus)**
[Initial experience with the surgical treatment of hypertrophic cardiopathy using an apico-aortic valved conduit] Poliakov VP, et al. **Vestn Khir Im I I Grek** 1996; (1):17-20 (Eng. Abstr.) **(Rus)**
[The initial experience of using Vitaflon vascular prostheses in the sequelae of traumatic injuries to the major arteries] Soroka VV, et al. **Vestn Khir Im I I Grek** 1997;156(1):103-4 **(Rus)**
[Dacron and polytetrafluoroethylene aorto-bifemoral grafts] Davidović LB, et al. **Srp Arh Celok Lek** 1997 Mar-Apr; 125(3-4):75-83 (Eng. Abstr.) **(Scc)**
[Treatment with endoprosthesis of the pathology of the descending thoracic artery] Rousseau H, et al. **Rev Esp Cardiol** 1996;49 Suppl 4:107-15 (50 ref.) (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Bacterial endocarditis in hemodialysis patients. Robinson DL, et al. **Am J Kidney Dis** 1997 Oct;30(4):521-4
Management of abdominal aortic prosthetic graft infection requiring emergent treatment. Mingoli A, et al. **Angiology** 1997 Jun;48(6):491-5
Hypertrophic osteoarthropathy following aortic surgery. Dellestable F, et al. **Ann Rheum Dis** 1996 Dec;55(12):863-7
Acute perigraft seroma simulating anastomotic bleeding of a PTFE graft applied as an arteriovenous shunt for hemodialysis. Eid A, et al. **Ann Vasc Surg** 1996 May; 10(3):290-1
The superficial femoral vein as arterial substitute in infections of the aortoiliac region. Franke S, et al. **Ann Vasc Surg** 1997 Jul;11(4):406-12
Local application of vancomycin for prophylaxis of graft infection: release of vancomycin from antibiotic-bonded Dacron grafts, toxicity in endothelial cell culture, and efficacy against graft infection in an animal model. Muhl E, et al. **Ann Vasc Surg** 1996 May;10(3):244-53
Sartorius myoplasty for infected vascular grafts in the groin. Safe, durable, and effective. Maser B, et al. **Arch Surg** 1997 May;132(5):522-5; discussion 525-6
Efficiency of an external support to reduce lipid infiltration into venous grafts: in vitro evaluation. Deng X, et al. **Artif Organs** 1996 Nov;20(11):1208-14
In vitro and in vivo effects of rifampin on Staphylococcus epidermidis graft infections. Garrison JR Jr, et al. **ASAIO J** 1997 Jan-Feb;43(1):8-12
Prosthetic arteriovenous fistulas and venous anastomotic stenosis: influence of a high flow velocity on the development of intimal hyperplasia. Hofstra L, et al. **Blood Purif** 1996;14(5):345-9
Prospective randomized study of a new method of providing postoperative pain relief following femoropopliteal bypass. Griffith JP, et al. **Br J Surg** 1996 Dec;83(12):1735-8
Diagnosis and therapy of aortic prosthetic fistulas: trends over a 30-year experience. van Baalen JM, et al. **Br J Surg** 1996 Dec;83(12):1729-34
Conservative surgery for aortic graft infection. Earnshaw JJ. **Cardiovasc Surg** 1996 Oct;4(5):570-2 (32 ref.)
Reduction in stent and vascular graft thrombosis and enhancement of thrombolysis by recombinant Lys-plasminogen in nonhuman primates. Sundell IB, et al. **Circulation** 1997 Aug 5;96(3):941-8
Retroperitoneal fibrosis and infection of an aortic graft prosthesis: diagnosis and therapeutic problems. Cuny C, et al. **Clin Cardiol** 1997 Sep;20(9):810-2
Local methylprednisolone inhibition of foreign body response to coated intracoronary stents. de Scheerder I, et al. **Coron Artery Dis** 1996 Feb;7(2):161-6
Pedicled omental flaps [letter; comment] Bonneton G. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):508. Comment on: Eur J Vasc Endovasc Surg 1995 Aug;10(2):256-7.
Unilateral lower limb hypertrophic osteoarthropathy due to aortic graft infection and aortoenteric fistula. Martínez JI, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):497-500 (23 ref.)
Fatal colonic ischaemia after stent graft for aortic aneurysm. Sandison AJ, et al. **Eur J Vasc Endovasc Surg** 1997 Feb; 13(2):219-20
Bacterial and clinical criteria relating to the outcome of patients undergoing in situ replacement of infected abdominal aortic grafts. Speziale F, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):127-33
Combined vascular reconstruction and adjunctive tissue transfer in the treatment of infected arterial prostheses and tissue defects. Bastounis EA, et al. **Int Angiol** 1996 Jun; 15(2):144-8
Immediate postoperative complications following hemodialysis access procedures. Wada H, et al. **Int Surg** 1996 Jan-Mar;81(1):99-101
Transesophageal echocardiographic detection of complications after Cabrol's procedure. Davis G, et al. **J Am Soc Echocardiogr** 1997 May;10(4):375-6
Acute thrombogenicity of intact and injured natural blood conduits versus synthetic conduits: neutrophil, platelet, and fibrin(ogen) adsorption under various shear-rate conditions. Merhi Y, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):477-85
Cells in pseudointimal hyperplasia is migrated from extravascular space. Kim DI, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):277-81
Postoperative inflammatory reactions to sealed Dracon prostheses: a comparison of Gelseal and Hemashield. Utoh J, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):287-90
Successful embolization of persistent endoleak from a patent inferior mesenteric artery. van Schie G, et al. **J Endovasc Surg** 1997 Aug;4(3):312-5
Endoleak as a complication of endoluminal grafting of abdominal aortic aneurysms: classification, incidence, diagnosis, and management. White GH, et al. **J Endovasc Surg** 1997 May;4(2):152-68 (20 ref.)
Lower extremity hypertrophic osteoarthropathy associated with aortic graft infection [letter; comment] al Dalaan A, et al. **J Rheumatol** 1995 Oct;22(10):2008. Comment on: J Rheumatol 1995 Jan;22(1):183-5.
Prosthetic graft infection: diagnostic and therapeutic role of interventional radiology. Rossi P, et al. **J Vasc Interv Radiol** 1997 Mar-Apr;8(2):271-7
Screening for dialysis access graft malfunction: comparison of physical examination with US. Trerotola SO, et al. **J Vasc Interv Radiol** 1996 Jan-Feb;7(1):15-20
Alternative approach for management of infected aortic grafts. Darling RC 3rd, et al. **J Vasc Surg** 1997 Jan; 25(1):106-12
Aortic corset syndrome. Hagino RT, et al. **J Vasc Surg** 1997 Jul;26(1):138-41
Graft-related complications after abdominal aortic aneurysm repair: reassurance from a 36-year population-based experience. Hallett JW Jr, et al. **J Vasc Surg** 1997 Feb; 25(2):277-84; discussion 285-6
Secondary rupture of a common iliac artery aneurysm after endovascular exclusion and stent-graft infection [letter] Kolvenbach R, et al. **J Vasc Surg** 1997 Aug;26(2):351-3
Technical complications of endovascular abdominal aortic aneurysm repair. Naslund TC, et al. **J Vasc Surg** 1997 Sep; 26(3):502-9; discussion 509-10
Comparison of endovascular and conventional vascular prostheses in an experimental infection model. Parsons RE, et al. **J Vasc Surg** 1996 Dec;24(6):920-5; discussion 925-6
Preincubation of Dacron grafts with recombinant tissue factor pathway inhibitor decreases their thrombogenicity in vivo. Rubin BG, et al. **J Vasc Surg** 1996 Nov; 24(5):865-70
Thrombogenicity of small-diameter prosthetic grafts: relative contributions of graft-associated thrombin and factor Xa. Toursarkissian B, et al. **J Vasc Surg** 1997 Apr;25(4):730-5

Successful non operative management of late infrainguinal polytetrafluoroethylene vascular graft infection with antibiotics alone: a report of two cases. Wilkinson JM, et al. **Panminerva Med** 1997 Jun;39(2):128–31

Extrinsic airway compression secondary to pulmonary arterial conduits: MR findings. Donnelly LF, et al. **Pediatr Radiol** 1997 Mar;27(3):268–70

Perigraft inflammation due to Dacron–covered stent–grafts in sheep iliac arteries: correlation of MR imaging and histopathologic findings. Schürmann K, et al. **Radiology** 1997 Sep;204(3):757–63

Thrombotic obstruction of a reinforced ringed expanded polytetrafluoroethylene graft caused by formation of a pseudoaneurysm at a nonanastomotic site: report of a case. Akiyama K, et al. **Surg Today** 1996;26(11):936–9

Pseudoaneurysm caused by disruption of an externally supported knitted Dacron graft for femoropopliteal bypass. Orii M, et al. **Tokai J Exp Clin Med** 1995 Dec;20(4–6):241–4

[Vascular allografts. Application to the treatment of aorto–iliac prosthetic infections with in situ revascularization] Koskas F, et al. **Chirurgie** 1997; 122(1):13–7 **(Fre)**

[Gases and damages] André M, et al. **Rev Med Interne** 1996; 17(8):699–700 **(Fre)**

[Heterotopic ossification of a dacron prosthesis in peripheral arterial occlusive disease (letter; comment)] Sulkowski U, et al. **Dtsch Med Wochenschr** 1996 Dec 20;121(51–52):1621 . Comment on: Dtsch Med Wochenschr 1997 May 16;122(20):667. **(Ger)**

[Periprosthetic urinoma after aorto–biiliac vascular prosthesis: a rare complication] Ernst S, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):406–8 **(Ger)**

[Modified manual rt–PA pulse–spray lysis in occlusions of leg arteries and femoro–popliteal bypasses] Müller–Hülsbeck S, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):557–62 (Eng. Abstr.) **(Ger)**

[Presentation of a new self–expanding vascular spiral stent] Rilinger N, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):578–81 (Eng. Abstr.) **(Ger)**

[CT angiography in peripheral bypass "aneurysmosis": a case report] Rodenwaldt J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):409–11 **(Ger)**

[Aorto–enteric fistula: current information on diagnostic and therapeutic procedures] Bianchi G, et al. **G Chir** 1997 Jun–Jul;18(6–7):378–81 (Eng. Abstr.) **(Ita)**

[Prevention and treatment of early and late postoperative complications of prosthetic surgery of the arterial aorto–iliac area] Tridico F, et al. **Minerva Chir** 1996 Sep; 51(9):675–80 (Eng. Abstr.) **(Ita)**

[A case of anastomotic aneurysm–enteric fistula] Takiguchi M, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):580–3 (Eng. Abstr.) **(Jpn)**

[A case of successful treatment of mediastinitis and prosthetic graft infection after aortic arch and thoracoabdominal aortic reconstruction] Kawashima T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):220–4 (12 ref.) (Eng. Abstr.) **(Jpn)**

[MRSA–induced prosthetic valve endocarditis complicated by synthetic graft infection that did not respond to repeated vancomycin administration but improved after surgery] Tanaka K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1767–71 (Eng. Abstr.) **(Jpn)**

[Graft infections] Miyamoto T. **Ryoikibetsu Shokogun Shirizu** 1996;(15):551–3 (7 ref.) **(Jpn)**

[Pseudoaneurysm after anastomosis of a prosthesis with the femoral artery] Witkowski M, et al. **Pol Tyg Lek** 1996 Mar; 51(10–13):145–7 (Eng. Abstr.) **(Pol)**

[The replacement of an infected branch of a vascular prosthesis with a portion of the superficial femoral artery] Tanryberdiev MO. **Vestn Khir Im I I Grek** 1996;155(6):90 **(Rus)**

[Report of a case. Late enteral graft erosion is a rare condition] Buntzen S, et al. **Lakartidningen** 1996 Oct 2; 93(40):3457–9 **(Swe)**

[An alternative treatment in aortic reconstruction (letter)] Olofsson P, et al. **Lakartidningen** 1996 Dec 18; 93(51–52):4711–2 **(Swe)**

CONTRAINDICATIONS

Diabetes mellitus is not a contra–indication for peripheral vascular intervention in patients with leg ischemia. Ubbink DT, et al. **Vasa** 1997;26(1):39–42

ECONOMICS

[Infrarenal aortic aneurysm––10 year follow–up after bypass operation with cost analysis (see comments)] Cappeller WA, et al. **Chirurg** 1996 Jul;67(7):697–702 (Eng. Abstr.). Comment in: Chirurg 1996 Dec;67(12):1287–8. **(Ger)**

HISTORY

Endoluminal treatment of arterial diseases using a stent–graft combination: reflections 20 years after the initial concept. Parodi JC. **J Endovasc Surg** 1997 Feb;4(1):3–4

INSTRUMENTATION

Impregnation of basic fibroblast growth factor on a microporous small caliber graft enhances vascularization. Doi K, et al. **ASAIO J** 1996 Sep–Oct;42(5):M394–8

Penetrating micropores increase patency and achieve extensive endothelialization in small diameter polymer skin coated vascular grafts. Okoshi T, et al. **ASAIO J** 1996 Sep–Oct;42(5):M398–401

Early use of the Gore–Tex Stretch Graft. Dawidson IJ, et al. **Blood Purif** 1996;14(5):337–44

Analysis of renal artery geometry may assist in the design of new stents for endovascular aortic aneurysm repair. Wijesinghe LD, et al. **Br J Surg** 1997 Jun;84(6):797–9

Aortic wall structural strengthening by intraluminal net prosthesis to arrest aneurysm progression and to prevent dissection and rupture. Nazari S, et al. **Eur J Cardiothorac Surg** 1996;10(4):264–72

Ultrasound imaging during endovascular abdominal aortic aneurysm repair using the Stentor bifurcated endograft. Lie T, et al. **J Endovasc Surg** 1997 Aug;4(3):272–8

Early experience with the Sydney and EVT prostheses for endoluminal treatment of abdominal aortic aneurysms. May J, et al. **J Endovasc Surg** 1995 Aug;2(3):240–7

Endoluminal repair of abdominal aortic aneurysms: strengths and weaknesses of various prostheses observed in a 4.5–year experience. May J, et al. **J Endovasc Surg** 1997 May; 4(2):147–51

Three–year experience with the White–Yu Endovascular GAD Graft for transluminal repair of aortic and iliac aneurysms. White GH, et al. **J Endovasc Surg** 1997 May; 4(2):124–36

Endovascular grafts for noninfected aortoiliac anastomotic aneurysms. Yuan JG, et al. **J Vasc Surg** 1997 Aug; 26(2):210–21

METHODS

Femoropopliteal endobypass: a feasibility study in 41 patients. Casselman F, et al. **Acta Chir Belg** 1997 Jan–Feb;97(1):23–6

Optimal methods for autogenous bypass to the anterior tibial artery. Eslami MH, et al. **Am J Surg** 1997 Aug; 174(2):198–201

Arm vein reconstruction for limb salvage: long–term outcome. Tisi PV, et al. **Ann R Coll Surg Engl** 1996 Nov; 78(6):497–500

Transperitoneal and retroperitoneal laparoscopic implantation of an aortofemoral prosthesis [letter; comment] Said S. **Ann Surg** 1997 Jan;225(1):134–5. Comment on: Ann Surg 1995 Nov;222(5):677–83.

Atrially based pericardial tunnel for central pulmonary artery construction. Perryman RA, et al. **Ann Thorac Surg** 1997 Jul;64(1):228–30

Endovascular aneurysm repair [editorial] Thompson MM, et al. **BMJ** 1997 Apr 19;314(7088):1139–40

Haemodynamic and metabolic response to endovascular repair of infra–renal aortic aneurysms. Baxendale BR, et al. **Br J Anaesth** 1996 Nov;77(5):581–5

Anatomical suitability of abdominal aortic aneurysms for endovascular repair. Armon MP, et al. **Br J Surg** 1997 Feb;84(2):178–80

Outcome and cost analysis after femorocrural and femoropedal grafting for critical limb ischaemia. Panayiotopoulos YP, et al. **Br J Surg** 1997 Feb;84(2):207–12

Advances in the surgical repair of ruptured abdominal aortic aneurysms. Darling RC 3rd, et al. **Cardiovasc Surg** 1996 Dec;4(6):720–3

Lateral approach to the popliteal and crural vessels for limb salvage. Hoballah JJ, et al. **Cardiovasc Surg** 1996 Apr; 4(2):165–8

The Perth endoluminal bifurcated graft system––development and early experience. Lawrence–Brown MM, et al. **Cardiovasc Surg** 1996 Dec; 4(6):706–12

Arterial homografts––a possible solution to an infective dilemma. Wagstaff SA, et al. **Cardiovasc Surg** 1996 Dec; 4(6):796–800

Arterial autologous graft–stent for treatment of coronary artery disease: a new technique. Stefanadis C, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):302–7 (23 ref.)

Endovascular stent graft repair of aortic aneurysms. Parodi JC. **Curr Opin Cardiol** 1997 Jul;12(4):396–405

Mesocaval interposition shunting in the treatment of bleeding oesophageal varices. Isaksson B, et al. **Eur J Surg** 1997 Aug;163(8):569–76

The first 15 months of transluminal abdominal aortic aneurysm management: a single centre experience. Kretschmer G, et al. **Eur J Vasc Endovasc Surg** 1997 Jul; 14(1):24–32

Conversion from endoluminal to open repair of abdominal aortic aneurysms: a hazardous procedure. May J, et al. **Eur J Vasc Endovasc Surg** 1997 Jul;14(1):4–11

Endoluminal grafting for percutaneous aneurysm exclusion in an aortocoronary saphenous vein graft: the first clinical experience. Heuser RR, et al. **J Endovasc Surg** 1995 Feb; 2(1):81–8

Results of autopsy 7 months after successful endoluminal treatment of an infrarenal abdominal aortic aneurysm. McGahan TJ, et al. **J Endovasc Surg** 1995 Nov;2(4):348–55

A prospective study of changes in morphology and dimensions of abdominal aortic aneurysms following endoluminal repair: a preliminary report. May J, et al. **J Endovasc Surg** 1995 Nov;2(4):343–7

Aortomonoiliac endovascular grafting: difficult solutions to difficult aneurysms. Thompson MM, et al. **J Endovasc Surg** 1997 May;4(2):174–81

Replacement of the ascending aorta with composite valve grafts: long term results [see comments] Lepore V, et al. **J Heart Valve Dis** 1996 May;5(3):240–6. Comment in: J Heart Valve Dis 1996 May;5(3):238–9.

A rat model for the evaluation of small–caliber vascular grafts. Suh CH, et al. **J Invest Surg** 1997 May–Jun; 10(3):115–8

Platelet deposition on ePTFE grafts coated with fibrin glue with or without FGF–1 and heparin. Zarge JI, et al. **J Surg Res** 1997 Jan;67(1):4–8

New–generation valved conduit: an experimental study. Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Aug; 114(2):218–23

Use of a bovine jugular vein graft with natural valve for right ventricular outflow tract reconstruction: a one–year animal study. Ichikawa Y, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):224–33

Infrainguinal arterial reconstruction with nonreversed greater saphenous vein. Belkin M, et al. **J Vasc Surg** 1996 Dec; 24(6):957–62

Supraceliac aortorenal bypass. Hagino RT, et al. **J Vasc Surg** 1997 Sep;26(3):482–9; discussion 490–1

Chronic intraaneurysmal pressure measurement: an experimental method for evaluating the effectiveness of endovascular aortic aneurysm exclusion. Sanchez LA, et al. **J Vasc Surg** 1997 Aug;26(2):222–30

Early results of endovascular aortic aneurysm surgery with aortouniiliac graft, contralateral iliac occlusion, and femorofemoral bypass. Yusuf SW, et al. **J Vasc Surg** 1997 Jan;25(1):165–72

Endoluminal stent–grafts for infrarenal abdominal aortic aneurysms [see comments] Blum U, et al. **N Engl J Med** 1997 Jan 2;336(1):13–20. Comment in: N Engl J Med 1997 Jan 2;336(1):59–60. Comment in: N Engl J Med 1997 Jun 12;336(24):1756; discussion 1757.

Transfemoral placement of endoluminal grafts to repair abdominal aortic aneurysms [letter] Choong CK, et al. **N Z Med J** 1996 Sep 27;109(1030):368

Prosthetic above–knee femoral–popliteal bypass: indications and choice of graft. Abbott WM. **Semin Vasc Surg** 1997 Mar;10(1):3–7

[Experimental study of implantation of autologous vascular endothelial cells on dacron grafts] Luo G, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):623–5 (Eng. Abstr.) **(Chi)**

[Reconstructive surgery in chronic venous disease of the lower limbs] Perrin M, et al. **Rev Med Suisse Romande** 1997 Feb;117(2):113–6 **(Fre)**

[Sutureless vascular end–to–side anastomosis: an in–vivo test of a percutaneous concept in the animal model] Vorwerk D, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):83–6 (Eng. Abstr.) **(Ger)**

[Morphology of abdominal aortic aneurysms with reference to endovascular blood vessel prosthesis] Marty B, et al. **Swiss Surg** 1996;2(5):219–22 (Eng. Abstr.) **(Ger)**

[Femoro–femoral crossover bypass in monolateral obstructions of the iliac artery] Bertoglio C, et al. **Chir Ital** 1995;47(4):33–40 (Eng. Abstr.) **(Ita)**

[Graft replacement for repair of coarctation of the aorta in adults: a case report] Aida H, et al. **Kyobu Geka** 1996 Sep; 49(10):859–61 (Eng. Abstr.) **(Jpn)**

[A clinical investigation of Bentall's operation for annuloaortic ectasia in the elderly] Harada H, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):632–6 (Eng. Abstr.) **(Jpn)**

[The surgical treatment for acute aortic dissection and changing concept of surgical procedures] Nakajima N. **Nippon Geka Gakkai Zasshi** 1996 Oct;97(10):900–5 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Femoropopliteal bypass for patients with arteriosclerosis obliterans] Sasajima T. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):551–6 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Reconstruction of the crural artery in atherosclerotic occlusive arterial disease] Tada Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):557–62 (Eng. Abstr.) **(Jpn)**

[Evolution and recent trends in patient selection and reconstruction method for chronic aortic dissection] Yasuda K, et al. **Nippon Geka Gakkai Zasshi** 1996 Oct; 97(10):906–15 (30 ref.) (Eng. Abstr.) **(Jpn)**

[A case of extended surgery in acute aortic dissection by perfusion into extra anatomic bypass] Fujii H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):1003–7 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of aortic dissection with ringed intraluminal graft––late results and fate of the false lumen] Sasaki K. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul; 44(7):923–35 (Eng. Abstr.) **(Jpn)**

[Successful x–ray endovascular prosthesis in abdominal aortic aneurysm] Nemytin IuV, et al. **Voen Med Zh** 1997 Jan; 318(1):62–4 **(Rus)**

[Vascular prosthesis in kidney transplantation] Alvarez Castelo LM, et al. **Arch Esp Urol** 1997 Apr;50(3):275–82 (15 ref.) (Eng. Abstr.) **(Spa)**

MORTALITY

Survival and aortic events after graft replacement for thoracoabdominal aortic aneurysm. Schepens MA, et al.

BLOOD VESSEL PROSTHESIS

Cardiovasc Surg 1996 Dec;4(6):713–9

STANDARDS

An impedance matching of femoral–popliteal arterial grafts: a theoretical study. Hirayama H, et al. **Artif Organs** 1997 May;21(5):379–90

Clinical trial of new polyurethane vascular grafts for hemodialysis: compared with expanded polytetrafluoroethylene grafts. Nakagawa Y, et al. **Artif Organs** 1995 Dec;19(12):1227–32

Anterior chest wall axillary artery to contralateral axillary vein graft for vascular access in hemodialysis. Ono K, et al. **Artif Organs** 1995 Dec;19(12):1233–6

Myristoyl gelatin as a sealant for Dacron vascular prostheses. Sasajima T, et al. **Artif Organs** 1997 Apr;21(4):287–92

Clinical use of omniflow vascular graft as arteriovenous bridging graft for hemodialysis. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1278–81

Experimental aortocoronary saphenous vein graft function after mechanical cardiac massage with the Anstadt Cup. Anstadt MP, et al. **ASAIO J** 1996 Jul–Aug;42(4):295–300

Can collagen impregnated polyester arterial prostheses be recommended as small diameter blood conduits? Guidoin R, et al. **ASAIO J** 1996 Nov–Dec;42(6):974–83

Australian multicentre evaluation of a new polyurethane vascular access graft. Allen RD, et al. **Aust N Z J Surg** 1996 Nov;66(11):738–42

Analysis of 274 Omniflow Vascular Prostheses implanted over an eight-year period. Koch G, et al. **Aust N Z J Surg** 1997 Sep;67(9):637–9

An albumin-coated polyester arterial graft: in vivo assessment of biocompatibility and healing characteristics. Marois Y, et al. **Biomaterials** 1996 Jan;17(1):3–14

Selecting valid in vitro biocompatibility tests that predict the in vivo healing response of synthetic vascular prostheses. Marois Y, et al. **Biomaterials** 1996 Oct; 17(19):1835–42

Chemical and morphological analysis of explanted polyurethane vascular prostheses: the challenge of removing fixed adhering tissue. Zhang Z, et al. **Biomaterials** 1996 Oct;17(19):1843–8

Long-term in vivo alterations of polyester vascular grafts in humans. Riepe G, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):540–8

What are the characteristics of the ideal endovascular graft for abdominal aortic aneurysm exclusion? Allen RC, et al. **J Endovasc Surg** 1997 May;4(2):195–202 (0 ref.)

Preoperative sizing of grafts for transfemoral endovascular aneurysm management: a prospective comparative study of spiral CT angiography, arteriography, and conventional CT imaging. Broeders IA, et al. **J Endovasc Surg** 1997 Aug; 4(3):252–61

Expanded polytetrafluoroethylene grafts for portal vein replacement: use of omentum wrap to promote graft healing. Nishibe T, et al. **Surg Today** 1997;27(2):149–53

[European standards for cardiovascular implants] Hasenkam JM, et al. **Ugeskr Laeger** 1997 Jul 14;159(29):4497–501 **(Dan)**

[Development of small caliber vascular graft for aorta–coronary bypass grafting] Noishiki Y. **Rinsho Kyobu Geka** 1988 Apr;8(2):201–4 (Eng. Abstr.) **(Jpn)**

STATISTICS & NUMERICAL DATA

Doppler echocardiographic assessment of prosthetic aortic valve area: estimation with the continuity equation compared to the Gorlin formula. Mohan JC, et al. **Int J Cardiol** 1996 Jul 26;55(2):177–81

TRENDS

A new pericardium vascular prosthesis: mechanical behavior, SEM analyses and clinical indications. Mantero S, et al. **Int J Artif Organs** 1996 Jun;19(6):372–8

UTILIZATION

Predictors of type of vascular access in hemodialysis patients [see comments] Hirth RA, et al. **JAMA** 1996 Oct 23–30; 276(16):1303–8. Comment in: JAMA 1996 Oct 23–30;276(16):1343–4.

BLOOD VESSEL TUMORS see **NEOPLASMS, VASCULAR TISSUE**

BLOOD VESSELS

consider also terms at ANGI-, VASA-, VASC-, and VASO-

see related
ANGIOGENESIS FACTOR
ANGIOGRAPHY
VASCULAR RESISTANCE
VASCULAR SURGERY
VASOMOTOR SYSTEM

Biointeractive polymers and tissue engineered blood vessels. Greisler HP, et al. **Biomaterials** 1996 Feb;17(3):329–36 (15 ref.)

Vascular adhesion molecules and immunogenicity in blood vessels used as coronary artery bypass grafts. Chester AH, et al. **Eur J Cardiothorac Surg** 1996;10(8):676–83

International Union of Angiology, European Chapter's Congress. Budapest, Hungary. May 19–22, 1996. Abstracts. **Int Angiol** 1996 Jun;15(2 Suppl 1):1–118

Characterization of blood flow turbulence with pulsed-wave and power Doppler ultrasound imaging. Cloutier G, et al. **J Biomech Eng** 1996 Aug;118(3):318–25

Vascular Biology '97. Abstracts. **Microcirculation** 1997 Mar; 4(1):111–209

[XXXth Angiology meeting of the French-Speaking Languages. Paris, France, 13–15 March 1996. Abstracts] **J Mal Vasc** 1996;21 Suppl B:185–238 **(Fre)**

[Interventional radiology in thoracic emergencies] Florio FP, et al. **Minerva Med** 1997 Jan–Feb;88(1–2):31–8 (16 ref.) (Eng. Abstr.) **(Ita)**

ABNORMALITIES

Hemangiomas of the head, neck, and chest with associated vascular and brain anomalies: a complex neurocutaneous syndrome. Pascual-Castroviejo I, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):461–71

Transphyseal vessel involvement in repair of metaphyseal retained cartilage. Firth EC, et al. **Aust Vet J** 1995 Dec; 72(12):452–5

Hormonal therapy for bleeding gastrointestinal mucosal vascular abnormalities: a promising alternative. Marshall JK, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):521–5 (60 ref.)

Flow characteristics of soft-tissue vascular anomalies evaluated by direct puncture scintigraphy. Inoue Y, et al. **Eur J Nucl Med** 1997 May;24(5):505–10

Hereditary hemorrhagic telangiectasia and other intestinal vascular anomalies. Korzenik JR. **Gastroenterologist** 1996 Sep;4(3):203–10 (75 ref.)

Major vascular malformations of the upper extremity: long-term observation. Mendel T, et al. **J Hand Surg [Am]** 1997 Mar;22(2):302–6

Monocyte chemoattractant protein-1 mRNA expression in hemangiomas and vascular malformations. Isik FF, et al. **J Surg Res** 1996 Feb 15;61(1):71–6

Glaucoma in phakomatosis pigmentovascularis. Teekhasaenee C, et al. **Ophthalmology** 1997 Jan; 104(1):150–7 (66 ref.)

Cardiovascular defects among the progeny of mouse phenylketonuria females. McDonald JD, et al. **Pediatr Res** 1997 Jul;42(1):103–7

An intra-abdominal tumour. Rehm A, et al. **Postgrad Med J** 1997 Jun;73(860):353–5

[Vascular abnormalities] Vanwijck R. **Bull Mem Acad R Med Belg** 1996;151(5–6):315–21; discussion 321–3 (Eng. Abstr.) **(Fre)**

ANATOMY & HISTOLOGY

Numerical simulation of mass transfer in porous media of blood vessel walls. Huang ZJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H464–77

Aging of the vascular wall: serum concentration of elastin peptides and elastase inhibitors in relation to cardiovascular risk factors. The EVA study. Bizbiz L, et al. **Atherosclerosis** 1997 May;131(1):73–8

Isolation of villous microvessels from the human placenta. Kacémi A, et al. **C R Acad Sci III** 1997 Feb;320(2):171–7

An algorithm for real-time vessel enhancement and detection. Poli R, et al. **Comput Methods Programs Biomed** 1997 Jan;52(1):1–22

Season-specific thymic architecture in the frog, Rana temporaria: SEM studies. Miodoński AJ, et al. **Dev Comp Immunol** 1996 Mar–Apr;20(2):129–37

Application of mathematical morphology in angiologic studies. Kędzia A. **Folia Morphol (Warsz)** 1995;54(4):249–58

Flow visualization of microcirculation in solid tumor tissues: intravital microscopic observation of blood circulation by use of a confocal laser scanning microscope. Suzuki T, et al. **Front Med Biol Eng** 1996;7(4):253–63

Structural and functional adaptations of the cardiovascular system by training. Huonker M, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S164–72 (74 ref.)

Evaluation of the effects of intravascular MR contrast media (gadolinium dendrimer) on 3D time of flight magnetic resonance angiography of the body. Bourne MW, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):3O5–1O

Vessel enhancement filtering in three-dimensional MR angiograms using long-range signal correlation [published erratum appears in J Magn Reson Imaging 1997 May–Jun;7(3):4A] Du YP, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):447–50

The effect of image resolution on vessel signal in high-resolution magnetic resonance angiography. Parker DL, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):632–41

Modelling the assessment of port wine stain parameters from skin surface temperature following a diagnostic laser pulse. Gabay S, et al. **Lasers Surg Med** 1997;20(2):179–87

Intravascular magnetic resonance imaging using a loopless catheter antenna. Ocali O, et al. **Magn Reson Med** 1997 Jan;37(1):112–8

A real vessel phantom for imaging experimentation. Dabrowski W, et al. **Med Phys** 1997 May;24(5):687–93

A description of discrete vessel segments in thermal modelling of tissues. Kotte A, et al. **Phys Med Biol** 1996 May;41(5):865–84

Tests of the geometrical description of blood vessels in a thermal model using counter-current geometries. Van Leeuwen GM, et al. **Phys Med Biol** 1997 Aug; 42(8):1515–32

[Vascular networks of the periphery of the finger nail] Sick H, et al. **Arch Anat Histol Embryol** 1993–94;75:47–60 (Eng. Abstr.) **(Fre)**

[Magnetic resonance tomography and magnetic resonance angiography in the imaging of vascular structures] Abramova NN, et al. **Vestn Rentgenol Radiol** 1997 Mar–Apr;(2):50–4 **(Rus)**

CHEMISTRY

The origin of amyloid in cerebral vessels of aged dogs. Wegiel J, et al. **Brain Res** 1995 Dec 24;705(1–2):225–34

Characterization of MEC 14.7, a new monoclonal antibody recognizing mouse CD34: a useful reage for identifying and characterizing blood vessels and hematopoietic precursors. Garlanda C, et al. **Eur J Cell Biol** 1997 Aug; 73(4):368–77

Nitric oxide in vascular remodeling. Nakaki T, et al. **Jpn Heart J** 1996 Jul;37(4):431–45

CYTOLOGY

A mechanical model for the formation of vascular networks in vitro. Manoussaki D, et al. **Acta Biotheor** 1996 Nov; 44(3–4):271–82

Interest and limits of in vitro studies in renal vascular endocrinology. Essig M, et al. **Cell Biol Toxicol** 1996 Dec; 12(4–6):271–4

High efficiency reporter gene transfection of vascular tissue in vitro and in vivo using a cationic lipid–DNA complex. Keogh MC, et al. **Gene Ther** 1997 Feb;4(2):162–71

Ets-1 regulates angiogenesis by inducing the expression of urokinase-type plasminogen activator and matrix metalloproteinase-1 and the migration of vascular endothelial cells. Iwasaka C, et al. **J Cell Physiol** 1996 Dec; 169(3):522–31

DRUG EFFECTS

Influence of MCI-9042, a novel 5-HT2 receptor blocker on blood vessels of the rat. Pawlak D, et al. **Acta Physiol Hung** 1996;84(3):323–4

Effects of U-37883A, a vascular selective KATP+ channel antagonist, in the pulmonary and hindlimb circulation. DeWitt BJ, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L924–31

Pentoxifylline: its influence on the interaction of blood cells with the vessel wall. Seiffge D. **Atherosclerosis** 1997 Jun; 131 Suppl:S27–8 (9 ref.)

In vivo receptor characterization of neuropeptide Y-induced effects in consecutive vascular sections of cat skeletal muscle. Ekelund U, et al. **Br J Pharmacol** 1997 Feb; 120(3):387–92

The neuropeptide Y (NPY) Y1 receptor antagonist BIBP 3226: equal effects on vascular responses to exogenous and endogenous NPY in the pig in vivo. Malmström RE, et al. **Br J Pharmacol** 1997 Jun;121(3):595–603

alpha-Toxin perfusion: a new method for selective impairment of endothelial function in isolated vessels or intact vascular beds. Laher I, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1669–73

Hypercholesterolemia impairs a detoxification mechanism against peroxynitrite and renders the vascular tissue more susceptible to oxidative injury. Ma XL, et al. **Circ Res** 1997 Jun;80(6):894–901

Tamoxifen decreases cholesterol sevenfold and abolishes lipid lesion development in apolipoprotein E knockout mice. Reckless J, et al. **Circulation** 1997 Mar 18;95(6):1542–8

Large vessel effects of cytotoxic chemotherapy [editorial; comment] Madden FJ. **Clin Oncol (R Coll Radiol)** 1996; 8(2):75–6. Comment on: Clin Oncol (R Coll Radiol) 1996 ;8(2):116–7.

Effect of cisplatin on the negative charge barrier in strial vessels of the guinea pig. A transmission electron microscopic study using polyethyleneimine molecules. Suzuki M, et al. **Eur Arch Otorhinolaryngol** 1996; 253(6):351–5

In vitro assessment for vascular selectivity of a new dihydropyridine derivative, NB-818. Hattori Y, et al. **Eur J Pharmacol** 1996 Apr 22;301(1–3):99–106

Vascular gap junctional communication and heptanol [letter; comment] Daniel EE. **Hypertension** 1997 Aug;30(2 Pt 1):306. Comment on: Hypertension 1996 Nov;28(5):888–93.

Cardiac and vascular effects of long-term losartan treatment in stroke-prone spontaneously hypertensive rats. Gohlke P, et al. **Hypertension** 1996 Sep;28(3):397–402

A vascular modulator, hepatocyte growth factor, is associated with systolic pressure. Nakamura Y, et al. **Hypertension** 1996 Sep;28(3):409–13

Arterial reactivity is enhanced in genetic males taking high dose estrogens [see comments] McCrohon JA, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1432–6. Comment in: J Am Coll Cardiol 1997 Jun;29(7):1445–6.

Long-term estrogen therapy improves vascular function in male to female transsexuals [see comments] New G, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1437–44. Comment in: J Am Coll Cardiol 1997 Jun;29(7):1445–6.

Estrogen for men: reversal of cardiovascular misfortune? [editorial; comment] Yeung AC. **J Am Coll Cardiol** 1997 Jun;29(7):1445–6. Comment on: J Am Coll Cardiol 1997 Jun;29(7):1432–6. Comment on: J Am Coll Cardiol 1997 Jun;29(7):1437–44.

Reversal of endothelin-induced vasoconstriction by

endothelium-dependent and -independent vasodilators in isolated hearts and vascular rings. Stowe DF, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):747-54

Long-term inhibition of the renin-angiotensin system in genetic hypertension: analysis of the impact on blood pressure and cardiovascular structural changes. Lundie MJ, et al. **J Hypertens** 1997 Apr;15(4):339-48 (104 ref.)

Effects of angiotensin converting enzyme inhibition on vascular remodelling of resistance vessels in hypertensive patients. Mulvany MJ. **J Hypertens Suppl** 1996 Dec; 14(6):S21-4 (38 ref.)

Insulin and the vasculature--old actors, new roles. Baron AD. **J Investig Med** 1996 Oct;44(8):406-12 (32 ref.)

Homocyst(e)ine is bad for blood vessels, but how come? [editorial; comment] Luft FC. **J Mol Med** 1996 Dec; 74(12):705-6. Comment on: J Mol Med 1996 Dec;74(12):771-6.

Potassium intake and cardiovascular reactivity in children with risk factors for essential hypertension. Sorof JM, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):87-94

Effects of gonadal steroids on vascular function. Duckles SP, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):1-3

Effects of vasodilators on the signal intensity of perfluorocarbon monitored by in vivo 19F-NMR spectroscopy. Sogabe T, et al. **Magn Reson Imaging** 1997; 15(3):341-5

Blood lipoproteins and their effect on contractile function of vessels in rats of different age. Frolkis VV, et al. **Mech Ageing Dev** 1997 Sep;97(3):207-14

Nitric oxide is not involved in vascular nociception of noxious physical stimuli in humans. Holthusen H, et al. **Neurosci Lett** 1997 May 16;227(2):111-4

Application of thrombin based fibrin glue and non-thrombin based batroxobin glue on intact human blood vessels: evidence for transmural thrombin activity. Dascombe WH, et al. **Thromb Haemost** 1997 Aug;78(2):947-51

[Effects of anticancer drugs on vascular wall: histological and pharmacological studies] Sakai T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):818-21 (Eng. Abstr.) **(Jpn)**

[The vascular effects of estrogens and the hormonal replacement therapy of climacteric disorders] Shvarts GIa. **Eksp Klin Farmakol** 1996 Nov-Dec;59(6):62-9 (62 ref.) **(Rus)**

EMBRYOLOGY

On the bifurcation of blood vessels--Wilhelm Roux's doctoral thesis (Jena 1878)--a seminal work for biophysical modelling in developmental biology. Kurz H, et al. **Anat Anz** 1997 Feb;179(1):33-6

Spatial and temporal pattern of smooth muscle cell differentiation during development of the vascular system in the mouse embryo. Takahashi Y, et al. **Anat Embryol (Berl)** 1996 Nov;194(5):515-26

A requirement for Flk1 in primitive and definitive hematopoiesis and vasculogenesis. Shalaby F, et al. **Cell** 1997 Jun 13;89(6):981-90

Requisite role of angiopoietin-1, a ligand for the TIE2 receptor, during embryonic angiogenesis [see comments] Suri C, et al. **Cell** 1996 Dec 27;87(7):1171-80. Comment in: Cell 1996 Dec 27;87(7):1153-5.

Linearity of pulsatile pressure-flow relations in the embryonic chick vascular system. Yoshigi M, et al. **Circ Res** 1996 Oct;79(4):864-70

Transforming growth factor-beta: vasculogenesis, angiogenesis, and vessel wall integrity. Pepper MS. **Cytokine Growth Factor Rev** 1997 Mar;8(1):21-43 (242 ref.)

TGF-beta receptor type II deficiency results in defects of yolk sac hematopoiesis and vasculogenesis. Oshima M, et al. **Dev Biol** 1996 Oct 10;179(1):297-302

Vascular development: cellular and molecular regulation. Beck L Jr, et al. **FASEB J** 1997 Apr;11(5):365-73 (67 ref.)

Development of blood vessels of stomach wall in rabbits during prenatal period. Jackowiak H, et al. **Folia Morphol (Warsz)** 1996;55(4):281-3

Human recombinant interferon alpha-2a inhibits angiogenesis of chick area vasculosa in shell-less culture. Ribatti D, et al. **Int J Microcirc Clin Exp** 1996 Jul-Aug;16(4):165-9

A role for notochord in axial vascular development revealed by analysis of phenotype and the expression of VEGR-2 in zebrafish flh and ntl mutant embryos. Sumoy L, et al. **Mech Dev** 1997 Apr;63(1):15-27

Mechanisms of angiogenesis. Risau W. **Nature** 1997 Apr 17; 386(6626):671-4 (53 ref.)

Targeted null-mutation in the vascular endothelial-cadherin gene impairs the organization of vascular-like structures in embryoid bodies. Vittet D, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6273-8

Signaling vascular morphogenesis and maintenance [comment] Hanahan D. **Science** 1997 Jul 4;277(5322):48-50. Comment on: Science 1997 Jul 4;277(5322):55-60.

[The loop-like growth of the vessels and the embryonic morphogenesis of the human intraorganic circulatory system] Iarygin NE, et al. **Ontogenez** 1996 Jul-Aug; 27(4):305-13 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Increased activity of vascular ACE related to atherosclerotic lesions in hyperlipidemic rabbits. Mitani H, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1065-71

Vascular localization of the 11 beta-hydroxysteroid dehydrogenase type II enzyme. Smith RE, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):549-51

Nitric oxide synthases in vascular cells. Schini-Kerth VB, et al. **Exp Physiol** 1995 Nov;80(6):885-905 (140 ref.)

Alcohol dehydrogenase of human and rat blood vessels. Role in ethanol metabolism. Allali-Hassani A, et al. **FEBS Lett** 1997 Mar 17;405(1):26-30

Detection and characterization of a protein isoaspartyl methyltransferase which becomes trapped in the extracellular space during blood vessel injury. Weber DJ, et al. **J Protein Chem** 1997 May;16(4):257-67

Injury-induced enzymatic methylation of aging collagen in the extracellular matrix of blood vessels. Weber DJ, et al. **J Protein Chem** 1997 May;16(4):269-81

NADPH-diaphorase histochemistry of rat choroid plexus blood vessels and epithelium. Szmydynger-Chodobska J, et al. **Neurosci Lett** 1996 Apr 26;208(3):179-82

GROWTH & DEVELOPMENT

Changes in the vascular network of the oral epithelium and reduced enamel epithelium during tooth eruption. Kishi Y, et al. **Acta Anat (Basel)** 1995;153(3):168-80

Shear stress is not sufficient to control growth of vascular networks: a model study. Hacking WJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H364-75

Improved growth with bioabsorbable sutures in both high- and low-pressure zones. von Segesser LK, et al. **Ann Thorac Surg** 1996 Oct;62(4):1045-9; discussion 1049-50

Vascular endothelial growth factor and its receptors. Klagsbrun M, et al. **Cytokine Growth Factor Rev** 1996 Oct; 7(3):259-70 (136 ref.)

Vascular development: cellular and molecular regulation. Beck L Jr, et al. **FASEB J** 1997 Apr;11(5):365-73 (67 ref.)

Cell adhesion and angiogenesis. Bischoff J. **J Clin Invest** 1997 Feb 1;99(3):373-6 (27 ref.)

INJURIES

Noniatrogenic pediatric vascular trauma: a ten-year experience at a level I trauma center. de Virgilio C, et al. **Am Surg** 1997 Sep;63(9):781-4

Complex thoracic vascular injury repair using deep hypothermia and circulatory arrest. Fulton JO, et al. **Ann Thorac Surg** 1997 Feb;63(2):557-9

Avoidance of complications of laparoscopic hysterectomy. Phipps JH. **Baillieres Clin Obstet Gynaecol** 1995 Dec; 9(4):729-48

Biochemistry of inflammatory processes and vascular injury. Role of neutrophils: a review. Belova LA. **Biochemistry (Mosc)** 1997 Jun;62(6):563-70 (38 ref.)

Is 24-hour observation after laparoscopic cholecystectomy important for the identification of major vascular injury? [letter] Keulemans YC, et al. **Eur J Surg** 1997 Jun; 163(6):475-6

Major retroperitoneal vascular injury during laparoscopic surgery. Nezhat C, et al. **Hum Reprod** 1997 Mar;12(3):480-3

Three vascular lesions in one patient. Rommens PM, et al. **Injury** 1996 Sep;27(7):509-11

Vascular injuries associated with limb fractures. al-Salman MM, et al. **Injury** 1997 Mar;28(2):103-7

Neurovascular complications following total knee replacement: causes, treatment, and prevention. Johanson NA. **Instr Course Lect** 1997;46:181-4 (15 ref.)

Spinal manipulative therapy: no evidence for neurovascular trauma. Esposito V, et al. **Int J Neurosci** 1996 Jul; 86(1-2):1-6

Injuries to major blood vessels during endoscopy. Soderstrom RM. **J Am Assoc Gynecol Laparosc** 1997 May;4(3):395-8

Multilumen central venous catheters in children: relative potential to perforate vessels. An in vitro study. Welch RH, et al. **J Clin Monit** 1997 Mar;13(2):75-9

In vivo role of glucocorticoids in barotrauma vascular repair and fibrosis. Karim MA, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1111-22

Injury-induced enzymatic methylation of aging collagen in the extracellular matrix of blood vessels. Weber DJ, et al. **J Protein Chem** 1997 May;16(4):269-81

Detection and characterization of a protein isoaspartyl methyltransferase which becomes trapped in the extracellular space during blood vessel injury. Weber DJ, et al. **J Protein Chem** 1997 May;16(4):257-67

Abdominal vascular injuries. Carrillo EH, et al. **J Trauma** 1997 Jul;43(1):164-71 (66 ref.)

The functional outcome of lower-extremity fractures with vascular injury. Lin CH, et al. **J Trauma** 1997 Sep; 43(3):480-5

Ligation: an alternative for control of exsanguination in major vascular injuries. Pourmoghadam KK, et al. **J Trauma** 1997 Jul;43(1):126-30

Blockade of growth factor synthesis and growth factor action: two possible sites of interference in allograft vessel disease and coronary bypass or balloon injury. Häyry P, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):101-3

Exploratory and interventional angiography in severe trauma: present and future procedure of choice. Ben-Menachem Y. **Radiographics** 1996 Jul;16(4):963-70

[Complications of laparoscopy caused by trocars. Preliminary study from the national registry of the French Society of Gynecologic Endoscopy] Marret H, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(4):405-12 (Eng. Abstr.) **(Fre)**

[Medicolegal implications in the angiologic practice and in the case of vascular trauma] **J Mal Vasc** 1996 Nov; 21(4):205-60 **(Fre)**

[Forensic medical implications of vascular injuries in orthopedic surgery] Natali J. **J Mal Vasc** 1996 Nov; 21(4):206-15 (9 ref.) (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular injuries and accidents related to the practice of conventional vascular surgery] Natali J. **J Mal Vasc** 1996 Nov;21(4):216-9 (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular injuries and accidents related to the practice of conventional general surgery] Natali J. **J Mal Vasc** 1996 Nov;21(4):220-2 (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular injuries in the course of video-endoscopic surgery] Natali J. **J Mal Vasc** 1996 Nov;21(4):223-6 (Eng. Abstr.) **(Fre)**

[Forensic medical implications in the course of sclerotherapy of varicose veins] Natali J, et al. **J Mal Vasc** 1996 Nov; 21(4):227-32 (Eng. Abstr.) **(Fre)**

[Legal aspects of vascular injuries and their forensic medical sequelae] Natali J. **J Mal Vasc** 1996 Nov;21(4):256-60 (Eng. Abstr.) **(Fre)**

[The possibilities of surgical treatment in injuries to the major blood vessels today] Korolev MP, et al. **Vestn Khir Im I I Grek** 1996;155(4):28-31 (Eng. Abstr.) **(Rus)**

[The diagnosis and treatment of injuries to the major vessels of the extremities and neck in wartime] Razmadze AV, et al. **Vestn Khir Im I I Grek** 1996;155(6):61-3 (Eng. Abstr.) **(Rus)**

[A case of stab-incised wound of neck with involvement of the vascular bundle] Zabirov RA, et al. **Vestn Otorinolaringol** 1997;(2):52 **(Rus)**

[Current knowledge of posttraumatic AV fistulae and pseudoaneurysms] Davidović L. **Vojnosanit Pregl** 1997 Mar-Apr;54(2):155-60 (72 ref.) **(Scr)**

INNERVATION

Neuropeptide Y Y1 receptor mechanisms in sympathetic vascular control. Malmström RE. **Acta Physiol Scand Suppl** 1997;636:1-55 (229 ref.)

Blood vessels in liver metastases from both sarcoma and carcinoma lack perivascular innervation and smooth muscle cells. Ashraf S, et al. **Clin Exp Metastasis** 1997 Sep; 15(5):484-98

Autonomic and sensory innervation of cat molar gland and blood vessels in the lower lip, gingiva and cheek. Kuchiiwa S, et al. **J Auton Nerv Syst** 1996 Dec 14;61(3):227-34

Innervation of orbital and choroidal blood vessels by the pterygopalatine ganglion in pigeons. Cuthbertson S, et al. **J Comp Neurol** 1997 Sep 29;386(3):422-42

On the existence of functional angiotensin II receptors on vascular sympathetic nerve terminals in the human forearm. Chang PC, et al. **J Hypertens** 1995 Nov;13(11):1275-84

[The effect of chemical sympathectomy on the adrenergic innervation of the blood vessels belonging to different organs in salt-sensitive and salt-resistant Dahl-strain rats] Leont'eva GR, et al. **Morfologiia** 1996;110(4):105-8 (Eng. Abstr.) **(Rus)**

METABOLISM

Human lipoprotein lipase deficiency: does chronic dyslipidemia lead to increased oxidative stress and mitochondrial DNA damage in blood cells? Ven Murthy MR, et al. **Acta Biochim Pol** 1996;43(1):227-40 (51 ref.)

Computational simulations of local vascular heparin deposition and distribution. Lovich MA, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2014-24

Stereo-selective calcium antagonistic and binding properties of the enantiomers of lemildipine in vascular tissue of pigs and dogs. Nakayama K, et al. **Arzneimittelforschung** 1996 Nov;46(11):1045-53

Heparan sulfate proteoglycans. Essential co-factors in receptor-mediated processes with relevance to the biology of the vascular wall. David G, et al. **Atherosclerosis** 1995 Dec;118 Suppl:S57-67 (75 ref.)

cAMP-mediated vascular protection in an orthotopic rat lung transplant model. Insights into the mechanism of action of prostaglandin E1 to improve lung preservation. Naka Y, et al. **Circ Res** 1996 Oct;79(4):773-83

High potassium diets reduce vascular and plasma lipid peroxides in stroke-prone spontaneously hypertensive rats. Ishimitsu T, et al. **Clin Exp Hypertens** 1996 Jul;18(5):659-73

Endothelin-1 gene expression and vascular hypertrophy in DOCA-salt hypertension compared to spontaneously hypertensive rats. Schiffrin EL, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S188-90

Vascular gene transfer. Ylä-Herttuala S. **Curr Opin Lipidol** 1997 Apr;8(2):72-6 (39 ref.)

Sexual dimorphism of steroid hormone receptor messenger ribonucleic acid expression and hormonal regulation in rat vascular tissue. Knauthe R, et al. **Endocrinology** 1996 Aug; 137(8):3220-7

Evidence for an age-dependent functional expression of alpha 1D-adrenoceptors in the rat vasculature. Ibarra M, et al. **Eur J Pharmacol** 1997 Mar 19;322(2-3):221-4

Autoradiographic visualization of B1 bradykinin receptors in porcine vascular tissues in the presence or absence of inflammation. Schremmer-Danninger E, et al. **Immunopharmacology** 1996 Jun;33(1-3):95-100

Drug clearance and arterial uptake after local perivascular

delivery to the rat carotid artery. Lovich MA, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1645–50

Endothelium–derived nitric oxide activity in forearm vessels of tennis players. Green DJ, et al. **J Appl Physiol** 1996 Aug;81(2):943–8

The biology of PECAM–1. Newman PJ. **J Clin Invest** 1997 Jan 1;99(1):3–8 (49 ref.)

Role of calcitonin gene–related peptide in the vascular system on the development of the hyperdynamic circulation in conscious cirrhotic rats. Hori N, et al. **J Hepatol** 1997 May; 26(5):1111–9

G protein expression in human fetoplacental vascularization. Functional evidence for Gs alpha and Gi alpha subunits. Bourgeois C, et al. **J Mol Cell Cardiol** 1996 May; 28(5):1009–21

Tie endothelial cell–specific receptor tyrosine kinase is upregulated in the vasculature of arteriovenous malformations. Hatva E, et al. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1124–33

Cytochrome P450 metabolites of arachidonic acid as intracellular signaling molecules in vascular tissue. Harder DR, et al. **J Vasc Res** 1997 May–Jun;34(3):237–43 (35 ref.)

Expression of laminin alpha 1, alpha 5 and beta 2 chains during embryogenesis of the kidney and vasculature. Durbeej M, et al. **Matrix Biol** 1996 Dec;15(6):397–413

Spiraled collagen in the major blood vessels. Ishii T, et al. **Mod Pathol** 1996 Aug;9(8):843–8

Vessel wall heparan sulfate and transcapillary passage of albumin in experimental diabetes in the rat. van den Born J, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:27–31

Relationships between beta–amyloid (A beta) deposits and blood vessels in patients with sporadic and familial Alzheimer's disease. Armstrong RA, et al. **Neurosci Lett** 1996 Apr 5;207(3):171–4

Effects of the neuropeptide Y (NPY)–receptor antagonist BIBP3226 on vascular NPY–receptors with different ligand requirements. Grundemar L, et al. **Pharmacol Toxicol** 1996 Nov;79(5):266–9

Measurement of fibrinolytic components in human tissue. Holmdahl L, et al. **Scand J Clin Lab Invest** 1997 Aug; 57(5):445–51

Angiopoietin–2, a natural antagonist for Tie2 that disrupts in vivo angiogenesis [see comments] Maisonpierre PC, et al. **Science** 1997 Jul 4;277(5322):55–60. Comment in: Science 1997 Jul 4;277(5322):48–50.

Cholesterol deposition in atherosclerotic lesions. Kruth HS. **Subcell Biochem** 1997;28:319–62 (273 ref.)

In vivo photoactivation of caged–thrombin. Arroyo JG, et al. **Thromb Haemost** 1997 Aug;78(2):791–3

MICROBIOLOGY

Monocytes harboring cytomegalovirus: interactions with endothelial cells, smooth muscle cells, and oxidized low–density lipoprotein. Possible mechanisms for activating virus delivered by monocytes to sites of vascular injury. Guetta E, et al. **Circ Res** 1997 Jul;81(1):8–16

PATHOLOGY

Bronchial blood vessel dimensions in asthma. Carroll NG, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):689–95

Vascular proliferation [letter; comment] Kepes JJ. **Am J Surg Pathol** 1996 Mar;20(3):384–7. Comment on: Am J Surg Pathol 1995 Jun;19(6):642–52.

Quantification of vascular density and of lumen and vessel morphology in endometrial carcinoma. Evaluation of their relation to serum levels of tissue polypeptide–specific antigen and CA–125. Willemse F, et al. **Anal Quant Cytol Histol** 1997 Feb;19(1):1–7

Significance of vascular natriuretic peptide system in vascular remodeling in humans and its application to gene therapy. Itoh H, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:533–41 (32 ref.)

Differential roles of AT1 and AT2 receptor subtypes in vascular trophic and phenotypic changes in response to stimulation with angiotensin II. Sabri A, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):257–64

Vascular myofibroblasts. Lessons from coronary repair and remodeling. Zalewski A, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):417–22 (46 ref.)

The vascular wall as a target for association studies by the candidate gene approach. Mao C, et al. **Blood Press Suppl** 1996;4:6–11 (47 ref.)

Blood vessel and lymphatic vessel invasion in resected nonsmall cell lung carcinoma. Correlation with TNM stage and disease free and overall survival. Bréchot JM, et al. **Cancer** 1996 Nov 15;78(10):2111–8

Independent prognostic importance of vascular invasion in nodular melanomas. Straume O, et al. **Cancer** 1996 Sep 15;78(6):1211–9

Analysis of hepatocyte distribution and survival in vascular beds with cells marked by 99mTC or endogenous dipeptidyl peptidase IV activity. Gupta S, et al. **Cell Transplant** 1997 Jul–Aug;6(4):377–86

New insights into vascular reactivity: from altered structure to neural control. Angus JA. **Clin Exp Pharmacol Physiol** 1997 May;24(5):297–304 (27 ref.)

Peripheral vasculature in essential hypertension. Mulvany MJ. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S6–10

Studies on pregnancy hypertension and IUGR–SFD: effects of drugs on the blood vessels in the placenta of pregnant SHRSP. Fuchi I, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S286–7

Long–term therapeutic effects of ace inhibitor and calcium antagonists on hypertensive vascular lesions in M–SHRSP. Ohta Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S321–2

The effect of inflammation on blood vessel area in Rosenthal's canal in the cat cochlea. Moralee SJ. **Clin Otolaryngol** 1997 Apr;22(2):115–6

Vascular pathology in CCI neuropathy: a quantitative temporal study. Sommer C, et al. **Exp Neurol** 1996 Sep; 141(1):113–9

Age related changes in the density of blood vessels in the human sciatic nerve. Mikusek J, et al. **Folia Morphol (Warsz)** 1996;55(4):398–400

Angiotropic lymphoma with endocrine involvement. Shanks JH, et al. **Histopathology** 1997 Aug;31(2):161–6

Vascular remodeling [letter] [see comments] Mulvany MJ, et al. **Hypertension** 1996 Sep;28(3):505–6. Comment in: Hypertension 1997 Apr;29(4):1065–6.

Immunohistochemical analysis of integrin alpha vbeta3 expression on tumor–associated vessels of human carcinomas [published erratum appears in Int J Cancer 1997 Aug 7;72(4):706–7] Max R, et al. **Int J Cancer** 1997 May 2;71(3):320–4

Cytomegalovirus infection and vessel wall pathology. Vossen RC, et al. **Intervirology** 1996;39(3):213–21 (128 ref.)

Extranodal spread of anaplastic large cell (CD30+) lymphoma presenting as a cutaneous perivascular infiltrate. Derringer GA, et al. **J Cutan Pathol** 1996 Aug;23(4):323–7

In vivo role of glucocorticoids in barotrauma vascular repair and fibrosis. Karim MA, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1111–22

Intravascular malignant lymphomatosis with neurological symptoms [letter] Natali–Sora MG, et al. **J Neurol** 1996 Feb;243(2):205–6

Thermal damage assessment of blood vessels in a hamster skin flap model by fluorescence measurement of a liposome–dye system. Mordon S, et al. **Lasers Surg Med** 1997;20(2):131–41

Congenital cystic adenomatoid malformation of the lung: insights into the pathogenesis utilizing quantitative analysis of vascular marker CD34 (QBEND–10) and cell proliferation marker MIB–1. Cangiarella J, et al. **Mod Pathol** 1995 Dec;8(9):913–8

Modification of vascular responses in xenotransplantation: inflammation and apoptosis [see comments] Bach FH, et al. **Nat Med** 1997 Sep;3(9):944–8 (32 ref.). Comment in: Nat Med 1997 Sep;3(9):935.

Microalbuminuria in essential hypertension. A marker of systemic vascular damage? [editorial] Pedrinelli R. **Nephrol Dial Transplant** 1997 Mar;12(3):379–81

Perivascular astrocytes within Alzheimer's disease plaques. Cullen KM. **Neuroreport** 1997 May 27;8(8):1961–6

Vascular regression during amphibian metamorphosis--a scanning electron microscope study of vascular corrosion casts of the ventral velum in tadpoles of Xenopus laevis Daudin. Aichhorn H, et al. **Scanning** 1996 Sep;18(6):447–55

[Effects of anticancer drugs on vascular wall: histological and pharmacological studies] Sakai T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):818–21 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

The query corner. Collateral vessels. Dondelinger RF. **Abdom Imaging** 1997 Jan–Feb;22(1):117–9

Development and validation of a noninvasive method to determine arterial pressure and vascular compliance. Brinton TJ, et al. **Am J Cardiol** 1997 Aug 1;80(3):323–30

Endothelium–derived nitric oxide mediates hypoxic vasodilation of resistance vessels in humans. Blitzer ML, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1182–5

Reflex vascular responses to abdominal venous distension in the anesthetized dog. Doe CP, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1049–56

Numerical simulation of mass transfer in porous media of blood vessel walls. Huang ZJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H464–77

Modeling blood flow in vessels with changeable caliber for physiology and biophysics courses. Kozlova EK, et al. **Am J Physiol** 1997 Jun;272(6 Pt 3):S26–30

Erythrocyte flow and elasticity of microvessels evaluated by marginal cell–free layer and flow resistance. Maeda N, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2454–61

Diameter variability and microvascular flow resistance. Pries AR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2716–25

Finite–element simulation of blood perfusion in muscle tissue during compression and sustained contraction. Vankan WJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1587–94

Regional vascular mechanical properties by 3–D intravascular ultrasound with finite–element analysis. Vonesh MJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H425–37

A device for the application of cyclic twist and extension on perfused vascular segments. Vorp DA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H787–95

Vascular mechanisms of blood pressure rhythms. Casiglia E. **Ann N Y Acad Sci** 1996 Aug 15;783:84–94 (33 ref.)

The role of nitric oxide in vascular biology and pathobiology. Dattilo JB, et al. **Ann Vasc Surg** 1997 May;11(3):307–14 (55 ref.)

Differential roles of AT1 and AT2 receptor subtypes in vascular trophic and phenotypic changes in response to stimulation with angiotensin II. Sabri A, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):257–64

Aging of the vascular wall: serum concentration of elastin peptides and elastase inhibitors in relation to cardiovascular risk factors. The EVA study. Bizbiz L, et al. **Atherosclerosis** 1997 May;131(1):73–8

Transphyseal vessel involvement in repair of metaphyseal retained cartilage. Firth EC, et al. **Aust Vet J** 1995 Dec; 72(12):452–5

The source of NMR–detected motional anisotropy of water in blood vessel walls. Sharf Y, et al. **Biophys J** 1997 Sep; 73(3):1198–204

Physiology and pathophysiology of the vascular wall. Proceedings of a meeting. Magog, Quebec, Canada, May 12, 1995. **Can J Physiol Pharmacol** 1996 Jul;74(7):787–877

Upregulation of vascular angiotensin II receptor gene expression by low–density lipoprotein in vascular smooth muscle cells. Nickenig G, et al. **Circulation** 1997 Jan 21; 95(2):473–8

Calculating vascular resistances. Skimming JW, et al. **Clin Cardiol** 1997 Sep;20(9):805–8 (12 ref.)

The human fibrinolytic system. Chandler WL. **Crit Rev Oncol Hematol** 1996 Sep;24(1):27–45 (198 ref.)

Maintenance of vascular integrity: role of nitric oxide and other bradykinin mediators. Cosentino F, et al. **Eur Heart J** 1995 Nov;16 Suppl K:4–12 (122 ref.)

Intracellular signalling pathways that regulate vascular cell proliferation: effect of hypoxia. Scott PH, et al. **Exp Physiol** 1997 Mar;82(2):317–26 (29 ref.)

Platelet–derived growth factor (PDGF): actions and mechanisms in vascular smooth muscle. Hughes AD, et al. **Gen Pharmacol** 1996 Oct;27(7):1079–89 (190 ref.)

Vascular gap junctional communication and heptanol [letter; comment] Daniel EE. **Hypertension** 1997 Aug;30(2 Pt 1):306. Comment on: Hypertension 1996 Nov;28(5):888–93.

Migrating fetal astrocytes do not intravasate since they are excluded from blood vessels by vital basement membrane. Bernstein JJ, et al. **Int J Dev Neurosci** 1996 Jun; 14(3):177–80

Inhibition of nitric oxide production during electrical stimulation of the nerves supplying the rat knee joint. McDougall JJ, et al. **J Auton Nerv Syst** 1996 Feb 5; 57(1–2):73–7

A new approach to mechanical testing and modeling of biological tissues, with application to blood vessels. Brossollet LJ, et al. **J Biomech Eng** 1996 Nov;118(4):433–9

On the Nusselt number in heat transfer between multiple parallel blood vessels. Cousins AK. **J Biomech Eng** 1997 Feb;119(1):127–9

Genetic manipulation of vascular adhesion molecules in mice. Hynes RO, et al. **J Clin Invest** 1996 Nov 15;98(10):2193–5 (7 ref.)

Cell adhesion in vascular biology. New insights into integrin–ligand interaction. Loftus JC, et al. **J Clin Invest** 1997 May 15;99(10):2302–6 (34 ref.)

Perspectives series: cell adhesion in vascular biology. Role of PSGL–1 binding to selectins in leukocyte recruitment. McEver RP, et al. **J Clin Invest** 1997 Aug 1;100(3):485–91 (70 ref.)

Circulatory Biomechanics and Cardiovascular Pathologies. Marseille, France, July 7–8, 1995. Abstracts. **J Endovasc Surg** 1995 Aug;2(3):302–16

Maternal vascular function in pregnancy. Poston L. **J Hum Hypertens** 1996 Jun;10(6):391–4 (37 ref.)

Debate: vascular remodelling [letter] Lee RM, et al. **J Hypertens** 1997 Apr;15(4):333–7

Signal transduction mechanisms mediating the vascular actions of endothelin. Douglas SA, et al. **J Vasc Res** 1997 May–Jun;34(3):152–64 (123 ref.)

How to Build a Blood Vessel, Vascular Disease Symposium. Bethesda, Maryland, February 27–28, 1997. Abstracts. **J Vasc Surg** 1997 Jun;25(6):1087–116

Visualization of dedicated catheters using fast scanning techniques with potential for MR–guided vascular interventions. Bakker CJ, et al. **Magn Reson Med** 1996 Dec; 36(6):816–20

Improving MR quantification of regional blood volume with intravascular T1 contrast agents: accuracy, precision, and water exchange. Donahue KM, et al. **Magn Reson Med** 1996 Dec;36(6):858–67

Measurement of strain exerted on blood vessel walls by double–quantum–filtered 2H NMR. Sharf Y, et al. **Magn Reson Med** 1997 Jan;37(1):69–75

Cyclic GMP–dependent protein kinase in nitric oxide signaling. Lincoln TM, et al. **Methods Enzymol** 1996; 269:149–66 (91 ref.)

Role of calcium–dependent K+ channels in the regulation of arterial and venous tone by nitric oxide in pigs. Zanzinger J, et al. **Pflugers Arch** 1996 Aug;432(4):671–7

A description of discrete vessel segments in thermal modelling of tissues. Kotte A, et al. **Phys Med Biol** 1996 May;41(5):865–84

Accuracy of geometrical modelling of heat transfer from tissue to blood vessels. Van Leeuwen GM, et al. **Phys Med Biol** 1997 Jul;42(7):1451–60

A plethysmographic method for demonstrating the response specificity of the oral vascular bed. Goldstein HS, et al. **Psychophysiology** 1997 Jan;34(1):124–8

Bradykinin receptors and receptor ligands (with special emphasis on vascular receptors). Regoli D, et al.

Regul Pept 1996 Aug 27;65(1):83–9 (51 ref.)
Stimulation of angiogenesis by canine parathyroid tissue. Carter WB, et al. **Surgery** 1996 Dec;120(6):1089–94
Targeted mutations in integrins and their ligands: their implications for vascular biology. Hynes RO, et al. **Thromb Haemost** 1997 Jul;78(1):83–7 (40 ref.)
Sympathoadrenal activation and muscarinic receptor stimulation induce acute release of tissue–type plasminogen activator but not von Willebrand factor across the human forearm. Jern C, et al. **Thromb Haemost** 1997 Aug; 78(2):887–91
Molecular crosstalk between adhesion receptors and proteolytic cascades in vascular remodelling. Preissner KT, et al. **Thromb Haemost** 1997 Jul;78(1):88–95 (114 ref.)
[Vascular remodeling and nitric oxide] Takemoto M, et al. **Rinsho Byori** 1997 Feb;Suppl 104:216–23 **(Jpn)**
[The effect of the blood flow rate on blood heat emission in the vascular bed of the skin] Luchakov IuI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):78–82 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Recording of unexpectedly high frequency vibrations of blood vessel walls in experimental arteriovenous fistulae of rabbits using a laser vibrometer. Stehbens WE, et al. **Biorheology** 1995 Nov–Dec;32(6):631–41
The pathophysiology of vascular obstruction in the sickle syndromes. Kaul DK, et al. **Blood Rev** 1996 Mar; 10(1):29–44 (153 ref.)
Physiology and pathophysiology of the vascular wall. Proceedings of a meeting. Magog, Quebec, Canada, May 12, 1995. **Can J Physiol Pharmacol** 1996 Jul;74(7):787–877
Left ventricular, peripheral vascular, and neurohumoral responses to mental stress in normal middle–aged men and women. Reference Group for the Psychophysiological Investigations of Myocardial Ischemia (PIMI) Study. Becker LC, et al. **Circulation** 1996 Dec 1;94(11):2768–77
Insulin sensitivity, vascular reactivity, and clamp–induced vasodilatation in essential hypertension [see comments] Natali A, et al. **Circulation** 1997 Aug 5;96(3):849–55. Comment in: Circulation 1997 Aug 5;96(3):725–6.
New insights into vascular reactivity: from altered structure to neural control. Angus JA. **Clin Exp Pharmacol Physiol** 1997 May;24(5):297–304 (27 ref.)
Peripheral vasculature in essential hypertension. Mulvany MJ. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S6–10
Vascular action of circulating and local natriuretic peptide systems is potentiated in obese/hyperglycemic and hypertensive rats. Yoshimoto T, et al. **Endocrinology** 1996 Dec;137(12):5552–7
Free radicals, atherosclerosis, ageing and related dysmetabolic pathologies: biochemical and molecular aspects. Cestaro B, et al. **Eur J Cancer Prev** 1997 Mar;6 Suppl 1:S25–30 (33 ref.)
Disruption of vascular signalling by the reaction of nitric oxide with superoxide: implications for cardiovascular disease. Darley–Usmar V, et al. **Exp Physiol** 1997 Mar; 82(2):305–16 (85 ref.)
Vascular remodeling [letter] [see comments] Mulvany MJ, et al. **Hypertension** 1996 Sep;28(3):505–6. Comment in: Hypertension 1997 Apr;29(4):1065–6.
Activation of latent TGF–beta at the vascular wall––roles of endothelial cells and mural pericytes or smooth muscle cells. Sato Y. **J Atheroscler Thromb** 1995;2(1):24–9 (38 ref.)
Endothelial nitric oxide pathway function in the peripheral vasculature of patients with heart failure. Kubo SH, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S217–23 (51 ref.)
Onion skin and functionality in congenital heart disease [editorial; comment] Cyran SE. **J Pediatr** 1997 Aug; 131(2):178–9. Comment on: J Pediatr 1997 Aug;131(2):210–4.
Enhanced expression of the endothelin–1 gene in blood vessels of DOCA–salt hypertensive rats: correlation with vascular structure. Schiffrin EL, et al. **J Vasc Res** 1996 May–Jun;33(3):235–48
Abdominal aortic aneurysm: a general defect in the vasculature with focal manifestations in the abdominal aorta? Sonesson B, et al. **J Vasc Surg** 1997 Aug;26(2):247–54
Computational simulation of turbulent signal loss in 2D time–of–flight magnetic resonance angiograms. Siegel JM Jr, et al. **Magn Reson Med** 1997 Apr;37(4):609–14
Specific adrenomedullin binding sites and hypotension in the rat systemic vascular bed. Nandha KA, et al. **Regul Pept** 1996 Apr 23;62(2–3):145–51
[Adaptations of the heart and vessels in arterial hypertension] Borghetti A, et al. **Cardiologia** 1997 Feb;42(2):139–48 (129 ref.) **(Ita)**
[Vascular "remodeling"] Ponte E, et al. **Minerva Med** 1997 Apr;88(4):143–9 (64 ref.) (Eng. Abstr.) **(Ita)**

RADIATION EFFECTS

Experimental study of vascular sequelae of combined upper abdominal intraoperative and external–beam radiation therapy. Krämling HJ, et al. **Front Radiat Ther Oncol** 1997; 31:36–40

RADIOGRAPHY see ANGIOGRAPHY

RADIONUCLIDE IMAGING see RADIONUCLIDE ANGIOGRAPHY

SURGERY see VASCULAR SURGERY

TRANSPLANTATION

Arm vein reconstruction for limb salvage: long–term outcome. Tisi PV, et al. **Ann R Coll Surg Engl** 1996 Nov; 78(6):497–500
Failure modes and performance of synthetic, autologous, and endovascular grafts. Guidoin R, et al. **ASAIO J** 1997 May–Jun;43(3):239–41 (17 ref.)
A comparative study of endothelium–derived relaxing factor–mediated relaxation and smooth muscle cell function in arterial and venous vein bypass grafts. Davies MG, et al. **Cardiovasc Surg** 1996 Apr;4(2):150–60
Geometric design improvements for femoral graft–artery junctions mitigating restenosis. Lei M, et al. **J Biomech** 1996 Dec;29(12):1605–14
How to Build a Blood Vessel, Vascular Disease Symposium. Bethesda, Maryland, February 27–28, 1997. Abstracts. **J Vasc Surg** 1997 Jun;25(6):1087–116
Long–term cryopreserved allogeneic nervous and vascular tissue transfers in monkeys. Hirase Y, et al. **Microsurgery** 1996;17(6):301–5
Nitric oxide generation by nitric oxide synthase isoforms in transplanted vessels. Akyürek ML, et al. **Transplant Proc** 1997 Sep;29(6):2571–2 (12 ref.)
[Vascular allografts. Application to the treatment of aorto–iliac prosthetic infections with in situ revascularization] Koskas F, et al. **Chirurgie** 1997; 122(1):13–7 **(Fre)**
[Homograft in the therapy of cardiovascular diseases] Striffeler H, et al. **Schweiz Rundsch Med Prax** 1997 Mar 18;86(12):476–81 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Regional vascular mechanical properties by 3–D intravascular ultrasound with finite–element analysis. Vonesh MJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H425–37
The effect of vascular curvature on three–dimensional reconstruction of intravascular ultrasound images. Wiet SP, et al. **Ann Biomed Eng** 1996 Nov–Dec;24(6):695–701
Intravascular ultrasound. Three–dimensional applications and forward viewing. McPherson DD, et al. **Cardiol Clin** 1997 Feb;15(1):63–76 (20 ref.)
Intravascular ultrasound: basic interpretation. Metz JA, et al. **Cardiol Clin** 1997 Feb;15(1):1–15 (35 ref.)
A real vessel phantom for imaging experimentation. Dabrowski W, et al. **Med Phys** 1997 May;24(5):687–93
Intravascular elasticity imaging using ultrasound: feasibility studies in phantoms. de Korte CL, et al. **Ultrasound Med Biol** 1997;23(5):735–46
Three–dimensional power Doppler imaging: a phantom study to quantify vessel stenosis. Guo Z, et al. **Ultrasound Med Biol** 1996;22(8):1059–69
Colour DOPPLER image analysis for tissue vascularity and perfusion: a preliminary clinical evaluation. Hirsch W, et al. **Ultrasound Med Biol** 1995;21(9):1107–17
A wall–less vessel phantom for Doppler ultrasound studies. Rickey DW, et al. **Ultrasound Med Biol** 1995;21(9):1163–76
Seeing harmonics: a new way to view vasculature. Deane CR. **Ultrasound Obstet Gynecol** 1997 Apr;9(4):220–1
[Systolic pressure measurement of the big toe (and of the ankle) as the first line od complete angiologic investigation comprising TcPO2, echography, and doppler ultrasonography] Rommer P. **J Mal Vasc** 1997;22(1):64–6 **(Fre)**
[Lines of conduct for training of physicians in echography and vascular Doppler and realization of vascular ultrasonic tests] Lacroix PH, et al. **Rev Med Interne** 1997;18(6):485–8 (Eng. Abstr.) **(Fre)**
[Intravascular ultrasonography] Filippini M. **Minerva Cardioangiol** 1997 Mar;45(3):83–6 (5 ref.) **(Ita)**
[Significance of intravascular ultrasound studies in the evaluation of the vascular lumen and wall in interventional radiological procedures] Ivanitskiĭ AV, et al. **Vestn Rentgenol Radiol** 1996 Sep–Oct;(5):26–34 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Functional morphology of nasal blood vessels in humans. Grevers G, et al. **Acta Otolaryngol (Stockh)** 1996 Mar; 116(2):312–5
Characteristics of blood vessels feeding the femoral head liable to osteonecrosis in spontaneously hypertensive rats. Hirano T, et al. **Calcif Tissue Int** 1996 Mar;58(3):201–5
Three–dimensional organization of the developing vasculature of the kidney. Kloth S, et al. **Cell Tissue Res** 1997 Jan;287(1):193–201
Protective effect of nicardipine treatment on cerebrovascular microanatomical changes in spontaneously hypertensive rats. Amenta F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S331–2
Ultrastructural characteristics of blood vessels in the infant and adult human cerebral cortex. Zhang HF, et al. **Histol Histopathol** 1997 Jan;12(1):85–97
Characterization of the microvascular glycocalyx in normal and injured spinal cord in the rat. Noble LJ, et al. **J Comp Neurol** 1996 Dec 23;376(4):542–56
Ultrastructural changes in cerebral cortical blood vessels of immature and adult rats after a single episode of neonatal hypoxia. Zhang HF, et al. **J Hirnforsch** 1997;38(1):81–97
[Casts method for the mouse embryo vasculature] Kondo S. **Tanpakushitsu Kakusan Koso** 1996 Aug;41(10):1514–9 (9 ref.) **(Jpn)**

BLOOD VISCOSITY

see related
HEMORHEOLOGY

Treatment of hyperviscosity syndrome in the patients with plasma cell dyscrasias. Kes P, et al. **Acta Med Croatica** 1996;50(4–5):173–7
Viscosity of paraproteinemic sera. Tichý M. **Acta Medica (Hradec Kralove)** 1996;39(1):41–3
Postprandial changes in plasma and serum viscosity and plasma lipids and lipoproteins after an acute test meal. Tangney CC, et al. **Am J Clin Nutr** 1997 Jan;65(1):36–40
Relationship between autonomic function and plasma fibrinogen, viscosity, and elements of fibrinolytic activity in diabetic nephropathy. Weinrauch LA, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):454–61
Four weeks of cycle training increases basal production of nitric oxide from the forearm. Kingwell BA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1070–7
Analytical model for effects of shear rate on rouleau size and blood viscosity. Chen J, et al. **Biophys Chem** 1996 Feb 8;58(3):273–9
Nonlinear viscoelasticity and the thrombelastograph: 1. Studies on bovine plasma clots. Burghardt WR, et al. **Biorheology** 1995 Nov–Dec;32(6):621–30
A newly designed oscillating viscometer for blood viscosity measurements. Häusler K, et al. **Biorheology** 1996 Jul–Oct; 33(4–5):397–404
Whole blood viscosity, blood pressure and cardiovascular risk factors in healthy blood donors. Fossum E, et al. **Blood Press** 1997 May;6(3):161–5
Blood viscosity and risk of cardiovascular events: the Edinburgh Artery Study. Lowe GD, et al. **Br J Haematol** 1997 Jan;96(1):168–73
Plasma viscosity values and the relationship with age and sex in normal commercial broiler and layer strains of chickens. Robertson GW, et al. **Br Poult Sci** 1996 May; 37(2):309–16
Effects of early heat exposure on thermoregulatory responses and blood viscosity of broilers prior to marketing. Zhou WT, et al. **Br Poult Sci** 1997 Jul;38(3):301–6
Leisure–time physical activity but not work–related physical activity is associated with decreased plasma viscosity. Results from a large population sample. Koenig W, et al. **Circulation** 1997 Jan 21;95(2):335–41
Plasma protein abnormalities in nephrotic syndrome: effect on plasma colloid osmotic pressure and viscosity. Joven J, et al. **Clin Chem** 1997 Jul;43(7):1223–31
Neonatal whole blood hyperviscosity: the important factor influencing later neurologic function is the viscosity and not the polycythemia. Drew JH, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb;17(1):67–72
Serum zinc and blood rheology in sportsmen (football players). Khaled S, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb;17(1):47–58
Rheological changes in hypertensive patients treated with ramipril. Rosenson RS, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb;17(1):41–6
The effects of low–density lipoprotein and high–density lipoprotein on blood viscosity correlate with their association with risk of atherosclerosis in humans. Sloop GD, et al. **Clin Sci (Colch)** 1997 May;92(5):473–9
Nutritional antioxidants, red cell membrane fluidity and blood viscosity in type 1 (insulin dependent) diabetes mellitus. Osterode W, et al. **Diabet Med** 1996 Dec; 13(12):1044–50
Fibrinogen, viscosity and ischaemic heart disease risk [editorial; comment] Dekker JM. **Eur Heart J** 1996 Dec; 17(12):1780–1. Comment on: Eur Heart J 1996 Dec;17(12):1814–20.
Fibrinogen, viscosity and the 10–year incidence of ischaemic heart disease [see comments] Sweetnam PM, et al. **Eur Heart J** 1996 Dec;17(12):1814–20. Comment in: Eur Heart J 1996 Dec;17(12):1780–1.
Hyperviscosity and microproteinuria in central obesity: relevance to cardiovascular risk. Solerte SB, et al. **Int J Obes Relat Metab Disord** 1997 Jun;21(6):417–23
Symptomatic hyperviscosity syndrome with polyclonal gammopathy responding to therapeutic plasmapheresis in a patient with myelodysplastic syndrome [letter] Chandrasekaran V, et al. **J Clin Apheresis** 1996;11(1):48–9
Determinants of membrane microviscosity in human erythrocytes: association with gender, blood pressure and serum lipids. Miller MA, et al. **J Hum Hypertens** 1996 Jun; 10(6):419–20
Hemorheologic profiles of plasma fibrinogen and blood viscosity from silent to acute and chronic cerebral infarctions. Tsuda Y, et al. **J Neurol Sci** 1997 Mar 20; 147(1):49–54
Is the erythrocyte sedimentation rate outdated? [letter; comment] Freeman A. **J R Soc Med** 1997 Mar;90(3):179–80 . Comment on: J R Soc Med 1997 Jan;90(1):16–8.
Increased plasma viscosity during an air pollution episode: a link to mortality? Peters A, et al. **Lancet** 1997 May 31; 349(9065):1582–7
Elevation of plasma viscosity induces sustained NO–mediated dilation in the hamster cremaster microcirculation in vivo. de Wit C, et al. **Pflugers Arch** 1997 Aug;434(4):354–61

BLOOD VISCOSITY

Blood viscosity in chronically hypoxic rats: an effect independent of packed cell volume. Fedde MR, et al. **Respir Physiol** 1996 Apr-May;104(1):45-52

Hemorheology in occupational lead exposure. Osterode W. **Scand J Work Environ Health** 1996 Oct;22(5):369-73

Synergistic effect of epinephrine and shearing on platelet activation. Goto S, et al. **Thromb Res** 1996 Dec 1; 84(5):351-9

[Study on mechanism of eye-signs in blood stasis syndrome] Yan Y, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Apr; 16(4):213-5 (Eng. Abstr.) **(Chi)**

[The study of correlation between hemorrheology and fluorescein angiography in open-angle glaucoma] Liu X, et al. **Yen Ko Hsueh Pao** 1995 Jun;11(2):73-5 (Eng. Abstr.) **(Chi)**

[Effect of temperature on rheologic properties of blood and internal viscosity of erythrocytes] Urbanová R. **Cas Lek Cesk** 1996 Oct 23;135(20):660-3 (Eng. Abstr.) **(Cze)**

[Blood viscosity is correlated with insulin resistance] Brun JF, et al. **J Mal Vasc** 1996;21(3):171-4 (Eng. Abstr.) **(Fre)**

[Plasma viscosity in the dog] Linke J. **Tierarztl Prax** 1996 Oct;24(5):524-8 (Eng. Abstr.) **(Ger)**

[Hemorheological effects of autologous blood storage before surgery for cardiac valvular diseases] Ichikawa H, et al. **J Cardiol** 1997;29 Suppl 2:37-40 (Eng. Abstr.) **(Jpn)**

[Abnormality of immunoglobulin (hyperimmunoglobulinemia E syndrome)] Sugiyama H. **Ryoikibetsu Shokogun Shirizu** 1996;(15):155-7 (6 ref.) **(Jpn)**

[Assessment of microcirculation using mathematical models of hydrodynamics and oxygen transport in microvessels. I] Mikhaĭlov IuM, et al. **Anesteziol Reanimatol** 1997 Mar-Apr;(2):28-30 **(Rus)**

[Change in blood viscosity and hematocrit during cooling of an animal] Lipina OV, et al. **Biofizika** 1996 May-Jun; 41(3):678-80 (Eng. Abstr.) **(Rus)**

[Changes in blood viscosity in patients with infectious-allergic form of bronchial asthma undergoing photohemotherapy with low-energy helium-neon laser] Paleev NR, et al. **Biull Eksp Biol Med** 1996 Nov; 122(11):564-7 **(Rus)**

[Model of blood hyperviscosity syndrome in rats: relationship between hemorheological indices and their informativeness during brain ischemia] Plotnikov MB, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):274-5 **(Rus)**

[Blood rheology in patients with gastric cancer] Karabanov GN, et al. **Khirurgiia (Mosk)** 1997;(4):20-3 (Eng. Abstr.) **(Rus)**

[The diagnosis of microcirculatory-rheological disorders and their correction in patients with the initial manifestations of insufficiency of the cerebral blood supply] Vesel'skiĭ ISh, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):87-9 (Eng. Abstr.) **(Rus)**

[Blood viscosity analyzer] Dobrovol'skiĭ NA, et al. **Med Tekh** 1997 May-Jun;(3):13-6 (Eng. Abstr.) **(Rus)**

[Blood viscosity, deformability and morphological types of erythrocytes in vibration disease] Liubchenko PN, et al. **Med Tr Prom Ekol** 1997;(1):11-4 (Eng. Abstr.) **(Rus)**

[Hemorheological disorders in patients with diabetic retinopathies] Bakhritdinova FA. **Vestn Oftalmol** 1996 Apr-Jun;112(2):33-5 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Covalent binding of poly(ethylene glycol) (PEG) to the surface of red blood cells inhibits aggregation and reduces low shear blood viscosity. Armstrong JK, et al. **Am J Hematol** 1997 Sep;56(1):26-8

Chronic hemorheological effects of the calcium antagonist nilvadipine in essential hypertension. Tsuda Y, et al. **Arzneimittelforschung** 1997 Aug;47(8):900-4

Intravenous immunoglobulin, blood viscosity and myocardial infarction. Fisman DN, et al. **Can J Cardiol** 1997 Aug; 13(8):775-7

Half-dose aprotinin does not affect haemorheological properties in patients undergoing bypass surgery. Liu B, et al. **Coron Artery Dis** 1996 Aug;7(8):609-13

Effects of pentoxifylline and nitroprusside on guinea pig cochlear blood flow in relationship to various hematocrit values. Ohinata Y, et al. **Eur Arch Otorhinolaryngol** 1996; 253(6):345-50

Effects of Daflon 500 mg* on haemoconcentration and alterations of white blood cell count elicited by the upright position in anaesthetized dogs. Delbarre B, et al. **Int Angiol** 1995 Sep;14(3 Suppl 1):23-5

Decreased blood viscosity and serum levels of erythropoietin after anti-hypertensive treatment with amlodipine or metoprolol: results of a cross-over study. Linde T, et al. **J Hum Hypertens** 1996 Mar;10(3):199-205

Oral vanadyl sulphate does not affect blood cells, viscosity or biochemistry in humans. Fawcett JP, et al. **Pharmacol Toxicol** 1997 Apr;80(4):202-6

Effect of crystalloid and colloid solutions on blood rheology in sepsis. Castro VJ, et al. **Shock** 1997 Aug;8(2):104-7

[The effect of diltiazem on systemic and cerebral hemodynamics and on the blood rheological properties in patients with ischemic stroke and atherosclerotic involvement of the major cerebral arteries] Ishchenko MM, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):127-31 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

Haemorheology in insulin-dependent diabetes is still normal five years after onset of the disease. Sandhagen B, et al. **Acta Paediatr Suppl** 1997 Feb;418:21-3

Noninvasive pump flow estimation of a centrifugal blood pump. Wakisaka Y, et al. **Artif Organs** 1997 Jul;21(7):651-4

The effect of blood viscoelasticity on pulsatile flow in stationary and axially moving tubes. Sharp MK, et al. **Biorheology** 1996 May-Jun;33(3):185-208

The superposition of steady on oscillatory shear and its effect on the viscoelasticity of human blood and a blood-like model fluid. Vlastos G, et al. **Biorheology** 1997 Jan-Feb; 34(1):19-36

Influence of glycemic control on viscosity and density of plasma and whole blood in type-1 diabetic patients. Mellinghoff AC, et al. **Diabetes Res Clin Pract** 1996 Jul; 33(2):75-82

Changes in blood rheology caused by Crohn's disease. Novacek G, et al. **Eur J Gastroenterol Hepatol** 1996 Nov; 8(11):1089-93

Progression of distal symmetric polyneuropathy during diabetes mellitus: clinical, neurophysiological, haemorheological changes and self-rating scales of patients. Husstedt IW, et al. **Eur Neurol** 1997;37(2):90-4

Hypoalbuminemia causes high blood viscosity by increasing red cell lysophosphatidylcholine. Joles JA, et al. **Kidney Int** 1997 Sep;52(3):761-70

Blood viscosity in broilers: influence on pulmonary hypertension syndrome. Fedde MR, et al. **Poult Sci** 1996 Oct;75(10):1261-7

Effects of racing and gender on viscoelastic properties of horse blood. Wood SC, et al. **Respir Physiol** 1997 Feb; 107(2):165-72

[Changes in coagulation physiology and rheology after preoperative normovolemic hemodilution] Hensel M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):481-7 (Eng. Abstr.) **(Ger)**

[Storage-induced rheologic and biochemical changes in erythrocyte concentrates with added solution and possible correlations] Mansouri Taleghani B, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:141-4 (Eng. Abstr.) **(Ger)**

[Rheologic changes in stored erythrocyte concentrates] Zilow EP, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:136-40 (Eng. Abstr.) **(Ger)**

[H.E.L.P. therapy (heparin-induced extracorporeal LDL precipitation) in sudden deafness] Walch C, et al. **Laryngorhinootologie** 1996 Nov;75(11):641-5 (Eng. Abstr.) **(Ger)**

[Clinical implications of high blood viscosity and its reduction bu photo-hemotherapy] Karandashov VI, et al. **Klin Med (Mosk)** 1997;75(8):19-23 (37 ref.) (Eng. Abstr.) **(Rus)**

[Hemorheological profiles in patients with arterial hypertension and bronchial asthma] Murav'ev AV, et al. **Vestn Ross Akad Med Nauk** 1997;(8):19-22 (Eng. Abstr.) **(Rus)**

BLOOD VOLUME

see related

FLUID SHIFTS

Haemodynamics during inhalation of a 50% nitrous-oxide-in-oxygen mixture with and without hypovolaemia. Hahn RG, et al. **Acta Anaesthesiol Scand** 1997 Apr;41(4):485-91

Pre-eclampsia: the effect of intravenous fluid preload on atrial natriuretic peptide secretion during caesarean section under spinal anaesthesia. Pouta A, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1203-9

Rapid natriuresis and preventive hypervolaemia for symptomatic vasospasm after subarachnoid haemorrhage. Okuchi K, et al. **Acta Neurochir (Wien)** 1996;138(8):951-6; discussion 956-7

Maternal volume homeostasis in early pregnancy in relation to fetal growth restriction [letter; comment] van Oppen AC, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):779-80 . Comment on: Acta Obstet Gynecol Scand 1995 Oct;74(9):693-7.

Estimation of cerebral blood volume and transit time in neonates from quick oxygen increases measured by near-infrared spectrophotometry. Wolf M, et al. **Adv Exp Med Biol** 1996;388:93-9

Measurement of cerebral blood volume with subtraction three-dimensional functional CT. Hamberg LM, et al. **AJNR Am J Neuroradiol** 1996 Nov-Dec;17(10):1861-9

Blood volume changes during three different profiles of dialysate sodium variation with similar intradialytic sodium balances in chronic hemodialyzed patients. Movilli E, et al. **Am J Kidney Dis** 1997 Jul;30(1):58-63

Hypovolemia in syncope and orthostatic intolerance role of the renin-angiotensin system. Jacob G, et al. **Am J Med** 1997 Aug;103(2):128-33

Near-infrared monitoring of cerebral tissue oxygen saturation and blood volume in newborn piglets. Brun NC, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H682-6

Central V1 AVP receptors are involved in cardiovascular adaptation to hypovolemia in WKY but not in SHR. Budzikowski AS, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1057-64

Impairment of blood volume restitution after large hemorrhage: a mathematical model. Carlson DE, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1163-77

Relationship between PVA and myocardial oxygen consumption can be derived from thermodynamics. Denslow S. **Am J Physiol** 1996 Feb;270(2 Pt 2):H730-40

Left-to-right systolic and diastolic ventricular interactions are dependent on right ventricular volume. Dickstein ML, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2869-74

Left ventricular volumetric conductance catheter for rats. Ito H, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1509-14

Absence of age-related decline in total blood volume in physically active females. Jones PP, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2534-40

Changes in myocardial blood volume with graded coronary stenosis. Lindner JR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H567-75

Roles of carotid baroreceptor and cardiac afferents in hemodynamic responses to acute central hypovolemia. Ludbrook J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1538-48

Role of endogenous centrally released NO in cardiovascular adaptation to hypovolemia in WKY and SHR. Paczwa P, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2282-8

Capacitive function of the heart: influence of acute changes in heart volume on mean right atrial pressure. Sheriff DD, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H553-8

Cardiovascular, renal, and endocrine responses to graded volume expansion in lambs during maturation. Smith FG, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1718-25

Effects of vasopressin V1-receptor blockade during acute and sustained hypovolemic hypotension. Wall BM, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R356-64

Dorsal aortic impedance in stage 24 chick embryo following acute changes in circulating blood volume. Yoshigi M, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1597-606

Oxygenation and blood volume changes in flaps according to near-infrared spectrophotometry. Hayden RE, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec; 122(12):1347-51

Pelvic blood pooling of men and women during lower body negative pressure. White DD, et al. **Aviat Space Environ Med** 1996 Jun;67(6):555-9

Measurement of blood volume and red cell mass: re-examination of 51Cr and 125I methods. Fairbanks VF, et al. **Blood Cells Mol Dis** 1996;22(2):169-86; discussion 186a-186g (40 ref.)

Using 125I-albumin exclusively for blood volume examinations [letter] Najean Y. **Blood Cells Mol Dis** 1997; 23(1):C1-3

Membrane diffusion and capillary blood volume in chronic thromboembolic pulmonary hypertension. Bernstein RJ, et al. **Chest** 1996 Dec;110(6):1430-6

Measurements of membrane diffusing capacity and pulmonary capillary blood volume in normal subjects and patients with mild emphysema. Xie C, et al. **Chin Med J (Engl)** 1996 Nov;109(11):840-7

Combined inhibition of endothelin and angiotensin II receptors blocks volume load-induced cardiac hormone release. Leskinen H, et al. **Circ Res** 1997 Jan;80(1):114-23

Quantitative assessment of alterations in regional left ventricular contractility with color-coded tissue Doppler echocardiography. Comparison with sonomicrometry and pressure-volume relations. Gorcsan J 3rd, et al. **Circulation** 1997 May 20;95(10):2423-33

Coronary and myocardial blood volumes: noninvasive tools to assess the coronary microcirculation? [editorial; comment] Kaul S, et al. **Circulation** 1997 Aug 5; 96(3):719-24 (45 ref.). Comment on: Circulation 1997 Aug 5;96(3):1004-11.

Marked discordance between dynamic and passive diastolic pressure-volume relations in idiopathic hypertrophic cardiomyopathy [published erratum appears in Circulation 1996 Nov 15;94(10):2668] Pak PH, et al. **Circulation** 1996 Jul 1;94(1):52-60

Serial assessment of the cardiovascular system in normal pregnancy. Role of arterial compliance and pulsatile arterial load. Poppas A, et al. **Circulation** 1997 May 20; 95(10):2407-15

Myocardial contrast echocardiography can be used to quantify intramyocardial blood volume: new insights into structural mechanisms of coronary autoregulation [see comments] Wu CC, et al. **Circulation** 1997 Aug 5; 96(3):1004-11. Comment in: Circulation 1997 Aug 5;96(3):719-24.

Impaired hyperemic response of brachial artery with the presence of diabetes mellitus in patients with coronary artery disease: a preliminary study. Tomoike H, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:55-9

Behavioral treatment in migraine. Cognitive-behavioral therapy and blood-volume-pulse biofeedback: a cross-over study with a two-year follow-up. Kropp P, et al. **Funct Neurol** 1997 Jan-Feb;12(1):17-24

The influence of blood volume changes on leucocyte and lymphocyte subpopulations in elite swimmers following interval training of varying intensities. Kargotich S, et al. **Int J Sports Med** 1997 Jul;18(5):373-80

Regional heterogeneity of cerebral blood flow response to graded volume-controlled hemorrhage [see comments] Waschke KF, et al. **Intensive Care Med** 1996 Oct; 22(10):1026-33. Comment in: Intensive Care Med 1996 Oct;22(10):1006-8.

Biodistribution and computed tomography blood-pool imaging properties of polyethylene glycol-coated

iopromide-carrying liposomes. Sachse A, et al. **Invest Radiol** 1997 Jan;32(1):44–50

Influence of age on the effect of bidirectional cavopulmonary anastomosis on left ventricular volume, mass and ejection fraction. Forbes TJ, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1301–7

Effect of controlled extracorporeal blood cooling on ultrafiltration-induced blood volume changes during hemodialysis. Schneditz D, et al. **J Am Soc Nephrol** 1997 Jun;8(6):956–64

Noninvasive measurement of blood volume in hemodialysis patients. Schneditz D, et al. **J Am Soc Nephrol** 1996 Aug; 7(8):1241–4

Volume capacity and contraction control of the seal spleen. Cabanac A, et al. **J Appl Physiol** 1997 Jun;82(6):1989–94

Changes in leg vein filling and emptying characteristics and leg volumes during long-term head-down bed rest. Louisy F, et al. **J Appl Physiol** 1997 Jun;82(6):1726–33

Blood volume and cardiac index in rats after exchange transfusion with hemoglobin-based oxygen carriers. Migita R, et al. **J Appl Physiol** 1997 Jun;82(6):1995–2002

Cardiac output and circulating blood volume analysis by pulse dye-densitometry. Iijima T, et al. **J Clin Monit** 1997 Mar;13(2):81–9

Changes in intrathoracic fluid volumes during weaning from mechanical ventilation in patients after coronary artery bypass grafting. Schmidt H, et al. **J Crit Care** 1997 Mar; 12(1):22–7

Contrast-to-noise ratio in functional MRI of relative cerebral blood volume with sprodiamide injection. Lev MH, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):523–7

The effect of carotid endarterectomy on cerebral blood flow and cerebral blood volume studied by SPECT. Lishmanov Y, et al. **J Neuroradiol** 1997 Aug;24(2):155–62

Utility of relative cerebral blood volume mapping derived from perfusion magnetic resonance imaging in the routine follow up of brain tumors. Siegal T, et al. **J Neurosurg** 1997 Jan;86(1):22–7

Evaluation of the transient hyperemic response test in head-injured patients. Smielewski P, et al. **J Neurosurg** 1997 May;86(5):773–8

Hypervolemic-hemodilution during cerebral ischemia in rats: effect of diaspirin cross-linked hemoglobin (DCLHb) on neurologic outcome and infarct volume. Cole DJ, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):44–50

Release of vasopressin in response to altered plasma volume and sodium concentrations following pinealectomy in the rat. Forsling ML, et al. **J Pineal Res** 1996 May;20(4):211–6

Increased nitric oxide in exhaled gas is an early marker of hypovolemic states. Carlin RE, et al. **J Surg Res** 1997 May; 69(2):362–6

Cardiac preload, splanchnic perfusion, and their relationship during resuscitation in trauma patients. Chang MC, et al. **J Trauma** 1997 Apr;42(4):577–82; discussion 582–4

Splanchnic erythrocyte content decreases during hemodialysis: a new compensatory mechanism for hypovolemia. Yu AW, et al. **Kidney Int** 1997 Jun; 51(6):1986–90

Contribution of Sinerem used as blood-pool contrast agent: detection of cerebral blood volume changes during apnea in the rabbit. Berry I, et al. **Magn Reson Med** 1996 Sep; 36(3):415–9

A MRI spatial mapping technique for microvascular permeability and tissue blood volume based on macromolecular contrast agent distribution. Demsar F, et al. **Magn Reson Med** 1997 Feb;37(2):236–42

Improving MR quantification of regional blood volume with intravascular T1 contrast agents: accuracy, precision, and water exchange. Donahue KM, et al. **Magn Reson Med** 1996 Dec;36(6):858–67

Physiologic basis for BOLD MR signal changes due to hypoxia/hyperoxia: separation of blood volume and magnetic susceptibility effects. Kennan RP, et al. **Magn Reson Med** 1997 Jun;37(6):953–6

Quantitative magnetic resonance imaging of capillary water permeability and regional blood volume with an intravascular MR contrast agent. Schwarzbauer C, et al. **Magn Reson Med** 1997 May;37(5):769–77

Extra- and intracellular volume monitoring by impedance during haemodialysis using Cole-Cole extrapolation. Jaffrin MY, et al. **Med Biol Eng Comput** 1997 May;35(3):266–70

Determining blood and plasma volumes using bioelectrical response spectroscopy. Siconolfi SF, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):1510–6

Relationship between aerobic power, blood volume, and thermoregulatory responses to exercise-heat stress. Yoshida T, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):867–73

Monitoring of blood volume during haemodialysis treatment of acute renal and multiple organ failures. Katzarski KS. **Nephrol Dial Transplant** 1996;11 Suppl 8:20–3 (46 ref.)

Prevention of haemodynamic risks by continuous blood volume measurement and control. Mann H, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:48–51

The effect of sodium and ultrafiltration modelling on plasma volume changes and haemodynamic stability in intensive care patients receiving haemodialysis for acute renal failure: a prospective, stratified, randomized, cross-over study. Paganini EP, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:32–7

Blood volume monitoring and control. Santoro A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:42–7 (18 ref.)

Central hypervolemia does not invariably modulate calcium excretion in essential hypertension [letter] Coruzzi P, et al. **Nephron** 1997;75(3):368–9

Comparison of cerebral blood flow measured by laser-Doppler flowmetry and hydrogen clearance in cats after cerebral insult and hypervolemic hemodilution. Kramer MS, et al. **Neurosurgery** 1996 Feb;38(2):355–61

The effect of scalp ischaemia on measurement of cerebral blood volume by near-infrared spectroscopy. Owen-Reece H, et al. **Physiol Meas** 1996 Nov;17(4):279–86

Carotid artery volume flow: in vivo measurement with time-domain-processing US. Westra SJ, et al. **Radiology** 1997 Mar;202(3):725–9

Effects of rapid colloid volume expansion on pulmonary microvascular pressure and lung water in the conscious sheep. Wallin CJ, et al. **Respir Physiol** 1997 Jun; 108(3):225–31

Large-volume leukapheresis in pediatric patients [letter; comment] Cassens U, et al. **Transfusion** 1997 Jun; 37(6):671–2. Comment on: Transfusion 1996 Oct;36(10):879–85.

Recruitment of CD34+ cells during large-volume leukapheresis [letter; comment] Cull G, et al. **Transfusion** 1997 Jun;37(6):672–3. Comment on: Transfusion 1996 Oct;36(10):879–85.

Large-volume leukapheresis in pediatric patients: processing more blood diminishes the apparent magnitude of intra-apheresis recruitment [see comments] Gorlin JB, et al. **Transfusion** 1996 Oct;36(10):879–85. Comment in: Transfusion 1997 Jun;37(6):671–2. Comment in: Transfusion 1997 Jun;37(6):672–3.

[Blood loss from diagnostic laboratory tests performed in intensive care units. Preliminary study] Alazia M, et al. **Ann Fr Anesth Reanim** 1996;15(7):1004–7 (Eng. Abstr.) **(Fre)**

[Effects of PEEP on intrathoracic and extrathoracic blood volumes evaluated with the COLD system in patients with acute respiratory failure. Preliminary study] Brienza N, et al. **Minerva Anestesiol** 1996 Jul–Aug;62(7–8):235–42 (Eng. Abstr.) **(Ita)**

[Continuous monitoring of blood volume change by measuring hematocrit during cardiopulmonary bypass] Horibe M, et al. **Masui** 1996 Feb;45(2):189–93 (Eng. Abstr.) **(Jpn)**

[Cerebral blood volume, cerebral hemoglobin and cytochrome AA3 during hypotension induced by prostaglandin E1 or epidural anesthesia under general anesthesia] Shinohara M, et al. **Masui** 1996 Aug;45(8):961–6 (Eng. Abstr.) **(Jpn)**

[Evaluation by MR imaging of the velocity and volume of pre- and postprandial portal blood flow in the presence or absence of liver cirrhosis] Miyake M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):244–8 (Eng. Abstr.) **(Jpn)**

[Comparative analysis of the efficacy of recovery of circulating blood volume after blood loss in newborn and adult mammals] Dzhurko BI, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):391–4 **(Rus)**

[The biomicroscopic evaluation of the blood microcirculatory bed in the mesentery of the small intestine during experimental perftoran infusion under normovolemia] Golubev AM, et al. **Morfologiia** 1996; 109(3):36–40 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Effects of calcium entry blockers on distribution of blood volume. Oren S, et al. **Am J Hypertens** 1996 Jul;9(7):628–32

Hemodilution, central blood volume, and renal responses after an isotonic saline infusion in humans. Johansen LB, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R549–56

Effects of progesterone on blood pressure, plasma volume, and responses to hypotension. Pecins-Thompson M, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R377–85

Perioperative volume effect of HES 120/0.7 compared with dextran 70 and Ringer acetate. Hiippala S, et al. **Ann Chir Gynaecol** 1996;85(4):333–9

Renal effects of rilmenidine in volume-loaded anaesthetized dogs. Evans RG, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):64–7

Changes in blood and red cell volume in the neonatal lamb and the effect of insulin-like growth factor I. Moritz KM, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):134–9

Unilateral renal ischemia reperfusion in the rat: effect of blood volume trapped in the kidney, sucrose infusion, and antioxidant treatments. Zurovsky Y, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):471–8

Validation of a flow-differential technique for the recording of splenic blood-volume changes to vasoactive agents. Xavier F, et al. **J Cardiovasc Pharmacol** 1996 Nov; 28(5):605–10

Mechanisms of exaggerated renal sympathoinhibition during volume loading in spontaneously hypertensive rats. Rodriguez-Martinez M, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1449–55

Measurement of blood flow with radiolabeled microspheres in reflected mucogingival flaps in cats. Wuchenich GT, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):330–4

Interference of dexamethasone with leukocyte blood volume and albumin movements in lungs from endotoxemic guinea-pigs. de Castro CM, et al. **Pulm Pharmacol** 1995 Dec;8(6):289–97

Epoetin alfa increases the volume of autologous blood donated by patients scheduled to undergo orthopedic surgery. Mercuriali F. **Semin Hematol** 1997 Apr;33(2 Suppl 2):10–2; discussion 13–4

[Albumin as volume replacement: pro] Boldt J. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Sep; 31(7):427–8 **(Ger)**

[Albumin as volume replacement: contra] von Bormann B. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Sep; 31(7):429–31 **(Ger)**

[Relationship among the heart, vasculature and blood volume at perioperative period: the influence of volatile anesthetics] Hoka S. **Masui** 1996 Jun;45(6):707–16 (33 ref.) (Eng. Abstr.) **(Jpn)**

[The use of the droperidol test for assessing the adequacy of circulating blood volume compensation and of the correction of disorders in hepatic blood flow] Silant'ev VV. **Klin Khir** 1996;(9):28–30 **(Rus)**

[The effect of the angiotensin-converting enzyme inhibitor Capoten on the volume-regulation indices of patients with stage-II hypertension] Vladkovs'kyi IK, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):113–7 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

"Small volume resuscitation" as treatment of cerebral blood flow disturbances and increased ICP in trauma and ischemia. Kempski O, et al. **Acta Neurochir Suppl (Wien)** 1996;66:114–7

Enhanced increase of plasma sodium pump inhibitory activity to saline expansion in vagosympathectomized and anaesthetized dogs. Rodriguez-Martinez M, et al. **Acta Physiol Scand** 1997 May;160(1):95–102

CBV during exchange transfusion in infants with erythroblastosis. Fahnenstich H, et al. **Adv Exp Med Biol** 1996;388:625–8

Towards near-infrared imaging of the brain. Shinohara Y, et al. **Adv Exp Med Biol** 1997;413:85–9

Effects of hypervolemia on interdialytic hemodynamics and blood pressure control in hemodialysis patients [see comments] Luik AJ, et al. **Am J Kidney Dis** 1997 Oct; 30(4):466–74. Comment in: Am J Kidney Dis 1997 Oct;30(4):577–8.

Increased release of kaliuretic peptide during immersion-induced central hypervolemia in cirrhotic humans. Vesely DL, et al. **Am J Nephrol** 1996;16(2):128–37

Mechanism of attenuated thirst in aging: role of central volume receptors. Stachenfeld NS, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R148–57

Assessment of gastric mucosal perfusion during simulated hypovolemia in healthy volunteers. Duranteau J, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1653–7

Blood density monitoring during dialysis. Yamauchi T, et al. **Artif Organs** 1996 Sep;20(9):981–5

Changes in blood volume and pressure induce c-fos expression in brainstem neurons that project to the paraventricular nucleus of the hypothalamus. Krukoff TL, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):99–108

Serum concentrations of micronutrients, packed cell volume, and blood hemoglobin during the first two gestations and lactations of sows. Girard CL, et al. **Can J Vet Res** 1996 Jul;60(3):179–85

Haematological status in elite long-distance runners: influence of body composition. Suetta C, et al. **Clin Physiol** 1996 Nov;16(6):563–74

Body fluid dynamics during dialysis and in dialysis hypotension. Koomans HA. **Contrib Nephrol** 1996; 119:173–81 (16 ref.)

Alterations in plasma volume, plasma constituents, renin activity and aldosterone induced by maximal exercise in the horse. Masri M, et al. **Equine Vet J Suppl** 1990 Jun; (9):72–7

The interaction between short-term exercise training and a diuretic-induced hypovolemic stimulus. Zappe DH, et al. **Eur J Appl Physiol** 1996;72(4):335–40

Lymphocyte subset redistribution during acute laboratory stress in young adults: mediating effects of hemoconcentration. Marsland AL, et al. **Health Psychol** 1997 Jul;16(4):341–8

Changes in the initial distribution volume of glucose and plasma volume following volume challenge in dogs. Miyahara A, et al. **Infusionsther Transfusionsmed** 1995 Oct; 22(5):274–9

Use of continuous blood volume monitoring to detect inadequately high dry weight. Lopot F, et al. **Int J Artif Organs** 1996 Jul;19(7):411–4

Computational analysis of blood volume dynamics during hemodialysis. Lopot F, et al. **Int J Artif Organs** 1997 Feb; 20(2):91–5 (4 ref.)

Clinical significance of intradialytic blood volume monitoring [editorial] Santoro A, et al. **Int J Artif Organs** 1997 Jan; 20(1):1–6 (25 ref.)

After-effects of a high altitude expedition on blood. Böning D, et al. **Int J Sports Med** 1997 Apr;18(3):179–85

New monitors of intravascular volume: a comparison of arterial pressure waveform analysis and the intrathoracic blood volume. Preisman S, et al. **Intensive Care Med** 1997 Jun;23(6):651–7

In vitro evaluation of forward and reverse volumetric flow across a regurgitant aortic valve using Doppler power-weighted mean velocities. Minich LL, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):623–31

BLOOD VOLUME

Restricted postexercise pulmonary diffusion capacity and central blood volume depletion. Hanel B, et al. **J Appl Physiol** 1997 Jul;83(1):11–7

Contribution of abdomen and legs to central blood volume expansion in humans during immersion. Johansen LB, et al. **J Appl Physiol** 1997 Sep;83(3):695–9

Changes in stroke volume and maximal aerobic capacity with increased blood volume in men women. Mier CM, et al. **J Appl Physiol** 1996 Apr;80(4):1180–6

Pulmonary diffusing capacity and pulmonary capillary blood volume during parabolic flights. Väida P, et al. **J Appl Physiol** 1997 Apr;82(4):1091–7

Dynamic right and left ventricular interactions in the rabbit: simultaneous measurement of ventricular pressure–volume loops. Pinsky MR, et al. **J Crit Care** 1996 Jun;11(2):65–76

c-fos expression in the parabrachial nucleus following cardiovascular and blood volume changes. Rocha MJ, et al. **J Hirnforsch** 1996;37(3):389–97

Signal-to-noise analysis of cerebral blood volume maps from dynamic NMR imaging studies. Boxerman JL, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):528–37

Contrast-to-noise ratio in functional MRI of relative cerebral blood volume with sprodiamide injection. Lev MH, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):523–7

Non-invasive, optical measurement of absolute blood volume in hemodialysis patients. Johnson DW, et al. **Kidney Int** 1996 Jan;49(1):255–60

Role of atrial natriuretic factor in volume control. Maack T. **Kidney Int** 1996 Jun;49(6):1732–7 (20 ref.)

Pressure–volume regulation in hypertension. Hall JE, et al. **Kidney Int Suppl** 1996 Jun;55:S35–41 (21 ref.)

Quantitative measurement of human tissue hepatic blood volume by C15O inhalation with positron–emission tomography. Taniguchi H, et al. **Liver** 1996 Aug; 16(4):258–62

Central hypervolemia does not invariably modulate calcium excretion in essential hypertension [letter] Coruzzi P, et al. **Nephron** 1997;75(3):368–9

A study of the contribution of changes in the cerebral blood volume to the haemodynamic response to anoxia in rat brain. Jones RA, et al. **NMR Biomed** 1996 Sep;9(6):233–40

A study of the contribution of changes in the cerebral blood volume to the haemodynamic response to anoxia in rat brain. Jones RA, et al. **NMR Biomed** 1997 Apr;10(2):59–66

MRI mapping of microvascular permeability and tissue blood volume. Demsar F, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R263–4

Investigation of the effect of discrete absorbers upon the measurement of blood volume with near-infrared spectroscopy. Firbank M, et al. **Phys Med Biol** 1997 Mar; 42(3):465–77

Transvascular albumin transport and protein replenishment after haemorrhage in the chronically catheterized pregnant rabbit. Valenzuela GJ, et al. **Reprod Fertil Dev** 1996; 8(1):183–7

Relation of calcitonin gene–related peptide to systemic vasodilatation and central hypovolaemia in cirrhosis. Møller S, et al. **Scand J Gastroenterol** 1996 Sep; 31(9):928–33

The lymphatic circulation plays a dynamic role in blood volume and plasma protein restitution after hemorrhage. Lloyd SJ, et al. **Shock** 1996 Jun;5(6):416–23

Lose salt and gain a friend! A tribute to Gerhard Giebisch. Rossier BC. **Wien Klin Wochenschr** 1997 Jun 27; 109(12–13):504–6

[Assuring normovolemia in extreme hemodilution] Adams HA. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct;31(8):494–6 (20 ref.) **(Ger)**

[Changes in coagulation physiology and rheology after preoperative normovolemic hemodilution] Hensel M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):481–7 (Eng. Abstr.) **(Ger)**

[Circadian rhythms in fluctuations in cerebral blood volume and oxygenation of the brain in premature infants with perinatal encephalopathy] Siutkina EV, et al. **Fiziol Cheloveka** 1996 Jan–Feb;22(1):75–81 **(Rus)**

[A single absolute critical threshold of oxygen transport and anemia in patients with isovolemic hypovolemia] Biliaiev AV. **Fiziol Zh** 1997;43(3–4):71–8 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

[Blood volume changes after the radiotherapy of the central nervous system] Wenz F, et al. **Strahlenther Onkol** 1996 Oct;172(10):559–66 (Eng. Abstr.) **(Ger)**

BLOOD VOLUME DETERMINATION

METHODS

Non-invasive measurement of cerebral blood volume in volunteers [see comments] Gupta AK, et al. **Br J Anaesth** 1997 Jan;78(1):39–43. Comment in: Br J Anaesth 1997 Jun;78(6):774; discussion 774–5.

Measurement of blood flow by the 133Xe clearance technique to grafts of amnion used in vestibuloplasty. Güler R, et al. **Br J Oral Maxillofac Surg** 1997 Aug;35(4):280–3

Blood volume determination using hydroxyethyl starch: a rapid and simple intravenous injection method [see comments] Tschaikowsky K, et al. **Crit Care Med** 1997 Apr;25(4):599–606. Comment in: Crit Care Med 1997 Apr;25(4):566.

Blood volume determination using hydroxyethyl starch [editorial; comment] Weil MH. **Crit Care Med** 1997 Apr; 25(4):566. Comment on: Crit Care Med 1997 Apr;25(4):599–606.

Measurement of blood flow with radiolabeled microspheres in reflected mucogingival flaps in cats. Wuchenich GT, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):330–4

BLOODLETTING

see related
PHLEBOTOMY

HISTORY

Peregrine Wroth, M.D., and cynanche tonsillaris. Miller JM. **Md Med J** 1996 Jun;45(6):485–6

BLOOM SYNDROME

COMPLICATIONS

[Wilms tumor and Bloom syndrome] Berger C, et al. **Arch Pediatr** 1996 Aug;3(8):802–5 (Eng. Abstr.) **(Fre)**

[Gastric adenocarcinoma in 2 cases of Bloom syndrome (letter)] Robles Campos R, et al. **Med Clin (Barc)** 1996 Feb 3;106(4):156–7 **(Spa)**

DIAGNOSIS

A case of Bloom syndrome with conjunctival telangiectasia. Sahn EE, et al. **Pediatr Dermatol** 1997 Mar–Apr; 14(2):120–4

ENZYMOLOGY

Bloom's syndrome enzyme leads to a new cancer mechanism [news] Dickman S. **Ann Oncol** 1996 Jan;7(1):2

Failure to unwind causes cancer. Genome stability. Watt PM, et al. **Curr Biol** 1996 Mar 1;6(3):265–7 (10 ref.)

EPIDEMIOLOGY

Bloom's syndrome. XX. The first 100 cancers. German J. **Cancer Genet Cytogenet** 1997 Jan;93(1):100–6

GENETICS

Bloom's syndrome. XIX. Cytogenetic and population evidence for genetic heterogeneity. German J, et al. **Clin Genet** 1996 May;49(5):223–31

Bloom's syndrome in a Turkish individual. Yilmaz E, et al. **Clin Genet** 1996 Jun;49(6):314–5

A wild-type mu s C-terminal gene is expressed in Bloom's syndrome cells. Ozawa T, et al. **Eur J Immunogenet** 1994 Apr;21(2):133–9

Hyper-recombination and Bloom's syndrome: microbes again provide clues about cancer. Rothstein R, et al. **Genome Res** 1995 Dec;5(5):421–6 (30 ref.)

Is the mismatch repair deficient type of Muir-Torre syndrome confined to mutations in the hMSH2 gene? Kruse R, et al. **Hum Genet** 1996 Dec;98(6):747–50

Molecular genetics of Bloom's syndrome. Ellis NA, et al. **Hum Mol Genet** 1996;5 Spec No:1457–63 (33 ref.)

Microsatellite instability in B-cell lymphoma originating from Bloom syndrome. Kaneko H, et al. **Int J Cancer** 1996 Dec 20;69(6):480–3

Large deletions at the HPRT locus associated with the mutator phenotype in a Bloom's syndrome lymphoblastoid cell line. Tachibana A, et al. **Mol Carcinog** 1996 Sep; 17(1):41–7

[Genetic instability and human diseases] Umezu K, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2335–48 (60 ref.) **(Jpn)**

BLOOM-TORRE-MACHACEK SYNDROME see **BLOOM SYNDROME**

BLOTTING, NORTHERN

Quantitative densitometric analysis using a commercially available handheld CCD digital camera. Malek AM, et al. **Biotechniques** 1997 Jun;22(6):1150–3

Northern blot analysis of simple repetitive sequence transcription in plants. Gortner G, et al. **Electrophoresis** 1996 Jul;17(7):1183–9

Northern blotting. Trayhurn P. **Proc Nutr Soc** 1996 Mar; 55(1B):583–9 (8 ref.)

METHODS

An improved, rapid Northern protocol. Kevil CG, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):277–9

Northern blotting of RNA denatured in glyoxal without buffer recirculation. Burnett WV. **Biotechniques** 1997 Apr; 22(4):668–71

Low-power vacuum apparatus for blotting. Passey RJ. **Biotechniques** 1997 Apr;22(4):598

Sensitive nonradioactive dot blot/ribonuclease protection assay for quantitative determination of mRNA. Zhan J, et al. **Biotechniques** 1997 Mar;22(3):500–5

Use of non-radioactive probes for VP4 typing of human rotaviruses. Gorrell RJ, et al. **J Virol Methods** 1996 Sep; 61(1–2):59–64

mRNA abundance and half-life measurements. Brown AJ, et al. **Methods Mol Biol** 1996;53:277–95 (10 ref.)

Hybridization and detection of digoxigenin probes on RNA blots. Davies E, et al. **Mol Biotechnol** 1996 Aug;6(1):75–7

Preparation of horseradish peroxidase-labeled probes. Durrant I, et al. **Mol Biotechnol** 1996 Aug;6(1):65–7

Hybridization of biotinylated oligo(dT) for eukaryotic mRNA quantitation. Stolz LE, et al. **Mol Biotechnol** 1996 Dec;6(3):225–30

STANDARDS

Variation in expression of genes used for normalization of Northern blots after induction of cell proliferation. Goldsworthy SM, et al. **Cell Prolif** 1993 Nov;26(6):511–8

An effective elimination of false positives isolated from differential display of mRNAs. Wadhwa R, et al. **Mol Biotechnol** 1996 Oct;6(2):213–7

BLOTTING, SOUTHERN

Southern technique and cytogenetics are complementary and must be used together in the evaluation of Ph1, M-BCR positive chronic myeloid leukemia (CML) patients treated with alpha interferon (IFN-alpha). Steegmann JL, et al. **Am J Hematol** 1996 Nov;53(3):169–74

PCR, Southern blotting and oocyte expression to assess the efficacy of subtractive hybridization. Silverstein DM, et al. **Biotechniques** 1996 Dec;21(6):994–6

Caution is advised when cDNA expression libraries are screened by southwestern methodologies. Stuempfle KJ, et al. **Biotechniques** 1997 Feb;22(2):260–4

Southern transfer protocol for confirmation of Huntington disease. Guida M, et al. **Clin Chem** 1996 Oct;42(10):1711–2

Detection of single-copy genes in DNA from transgenic plants by nonradioactive Southern blot analysis. McCabe MS, et al. **Mol Biotechnol** 1997 Feb;7(1):79–84

A total DNA characterization in Proteocephalus exiguus and P. percae (Cestoda: Proteocephalidae): random amplified polymorphic DNA and hybridization techniques. Král'ová I. **Parasitol Res** 1996;82(8):668–71

Southern blotting. Kelly KF. **Proc Nutr Soc** 1996 Mar; 55(1B):591–7 (9 ref.)

METHODS

Combined molecular and cytogenetic analysis for the rapid diagnosis of fragile X syndrome. Bussani Mastellone C, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):165–8

Differentiation of primary and secondary cutaneous B-cell lymphoma by Southern blot analysis. Sepp N, et al. **Am J Clin Pathol** 1996 Dec;106(6):749–57

Molecular biology, III. Tracking DNA: the Southern blot. Duman RS, et al. **Am J Psychiatry** 1997 Jan;154(1):3

Southern blotting of long-term preserved DNA. Laniel MA, et al. **Biotechniques** 1997 Apr;22(4):595–6

Construction of a restriction map and gene map of the lettuce chloroplast small single-copy region using Southern cross-hybridization. Mitchelson KR. **Biotechniques** 1996 Jan;20(1):130–5

Low-power vacuum apparatus for blotting. Passey RJ. **Biotechniques** 1997 Apr;22(4):598

Detectable molecular residual disease at the beginning of maintenance therapy indicates poor outcome in children with T-cell acute lymphoblastic leukemia. Dibenedetto SP, et al. **Blood** 1997 Aug 1;90(3):1226–32

Allele-specific hybridization of lipoprotein lipase and factor-V Leiden missense mutations with direct label alkaline phosphatase-conjugated oligonucleotide probes. Vary CP, et al. **Genet Anal** 1996 Sep;13(3):59–65

Methods for precise sizing, automated binning of alleles, and reduction of error rates in large-scale genotyping using fluorescently labeled dinucleotide markers. FUSION (Finland-U.S. Investigation of NIDDM Genetics) Study Group. Ghosh S, et al. **Genome Res** 1997 Feb;7(2):165–78

A simple and reliable method for screening retroviral producer clones without selectable markers. Onodera M, et al. **Hum Gene Ther** 1997 Jul 1;8(10):1189–94

Avoiding errors in the diagnosis of (CAG)n expansion in the huntingtin gene [letter] Holzmann C, et al. **J Med Genet** 1997 Mar;34(3):264

Identification of carriers of Duchenne/Becker muscular dystrophy by a novel method based on detection of junction fragments in the dystrophin gene. Yamagishi H, et al. **J Med Genet** 1996 Dec;33(12):1027–31

Highly sensitive qualitative and quantitative detection of reverse transcriptase activity: optimization, validation, and comparative analysis with other detection systems. Yamamoto S, et al. **J Virol Methods** 1996 Sep; 61(1–2):135–43

Identification of immunoglobulin lambda isotype gene rearrangements by Southern blot analysis. Tümkaya T, et al. **Leukemia** 1996 Nov;10(11):1834–9

Preparation of horseradish peroxidase-labeled probes. Durrant I, et al. **Mol Biotechnol** 1996 Aug;6(1):65–7

Strain differentiation of Onchocerca volvulus from Uganda using DNA probes. Fischer P, et al. **Parasitology** 1996 Apr; 112 (Pt 4):401–408

[Molecular biology in malignant blood diseases. Methodological aspects: Southern blotting techniques and the polymerase chain reaction] González M, et al. **Sangre (Barc)** 1996 Aug;41(4):311–9 (29 ref.) **(Spa)**

BLOTTING, WESTERN

Detection of multiple antigens on western blots. Krajewski S, et al. **Anal Biochem** 1996 May 1;236(2):221–8

Immunocytochemical electron microscopic study and Western blot analysis of troponin in striated muscle of the fruit fly Drosophila melanogaster and in several muscle cell types of the earthworm Eisenia foetida. Royuela M, et al. **Anat Rec** 1996 Feb;244(2):148–54

Caution is advised when cDNA expression libraries are screened by southwestern methodologies. Stuempfle KJ, et al. **Biotechniques** 1997 Feb;22(2):260–4

Profile of antigen-specific antibody response detectable by western blot in relation to diagnostic criteria for human immunodeficiency virus type-1 (HIV-1) infection. Chattopadhya D, et al. **Clin Diagn Virol** 1996 Oct; 7(1):35–42

The western immunoblot for Lyme disease: determination of sensitivity, specificity, and interpretive criteria with use of commercially available performance panels. Tilton RC, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S31–4

Computer-supported analysis (MegaBlot) of allopurinol-induced changes in the autoantibody repertoires of rats suffering from experimental lens-induced uveitis. Grus FH, et al. **Electrophoresis** 1997 Mar–Apr; 18(3–4):516–9

Chemiluminescent enhanced CD47 detection on Western blotting. Yuan FF, et al. **Electrophoresis** 1996 Jan; 17(1):219–20

A technique for identification of cellular proteins by western immunoblotting and immunoautoradiography of 2-D PAGE. Hailat NQ, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):240–4

Circulating pemphigus IgG in families of patients with pemphigus: comparison of indirect immunofluorescence, direct immunofluorescence, and immunoblotting. Brandsen R, et al. **J Am Acad Dermatol** 1997 Jan;36(1):44–52

Detection of autoantibody against 97-kD antigen by immunoblot, but not by indirect immunofluorescence, in a patient with linear IgA bullous dermatosis. Ohno H, et al. **J Dermatol** 1996 Oct;23(10):665–9

The 14–3–3 brain protein and transmissible spongiform encephalopathy [letter; comment] Zerr I, et al. **N Engl J Med** 1997 Mar 20;336(12):874; discussion 874–5 . Comment on: N Engl J Med 1996 Sep 26;335(13):924–30.

Western blot analysis in patients with hypocaeruloplasminaemia. Chowrimootoo GF, et al. **QJM** 1997 Mar;90(3):197–202

Indeterminate human immunodeficiency virus type 1 western blot may indicate an abortive infection in some low-risk blood donors [see comments] Georgoulias VA, et al. **Transfusion** 1997 Jan;37(1):65–72. Comment in: Transfusion 1997 Jan;37(1):1–2.

Human immunodeficiency virus-indeterminate western blot and abortive infection [editorial; comment] Jackson JB. **Transfusion** 1997 Jan;37(1):1–2. Comment on: Transfusion 1997 Jan;37(1):65–72.

[Diagnosis of Lyme borreliosis with western blotting] Hulínská D. **Epidemiol Mikrobiol Imunol** 1997 Mar; 46(1):3–8 (Eng. Abstr.) **(Cze)**

[Western blotting or immunoblotting: application of the Alastat-Alablot to the study of cross reactions between cow's milk and goat's milk] Sabbah A, et al. **Allerg Immunol (Paris)** 1996 Dec;28(10):335–9 (Eng. Abstr.) **(Fre)**

[Western blotting in the serologic diagnosis of enterovirus infections. I. Detection of coxsackie virus antibodies in reference sera and sera of experimentally infected mice] Petrovičová A, et al. **Epidemiol Mikrobiol Imunol** 1997 May;46(2):47–50 (Eng. Abstr.) **(Slo)**

[Western blotting in the serologic diagnosis of enterovirus infections. II. Detection of coxsackievirus antibodies in the sera of patients with suspected enterovirus infection and in paired specimens of sera and saliva] Petrovičová A, et al. **Epidemiol Mikrobiol Imunol** 1997 May;46(2):51–4 (Eng. Abstr.) **(Slo)**

METHODS

Western blot analysis of the reactivity between envelope proteins of hepatitis B viruses from Brazilian carriers and antibodies raised against recombinant hepatitis B vaccines. De Castro L, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):251–8

High-efficiency blotting of proteins of diverse sizes following sodium dodecyl sulfate-polyacrylamide gel electrophoresis. Bolt MW, et al. **Anal Biochem** 1997 May 1;247(2):185–92

Comparison of three chemiluminescent horseradish peroxidase substrates for immunoblotting. Mattson DL, et al. **Anal Biochem** 1996 Sep 5;240(2):306–8

Analysis of proteins by direct-scanning infrared-MALDI mass spectrometry after 2D-PAGE separation and electroblotting. Eckerskorn C, et al. **Anal Chem** 1997 Aug 1;69(15):2888–92

The distribution of F13A subtypes in four populations using agarose isoelectric focusing and Western Blot detection. Miller SA, et al. **Appl Theor Electrophor** 1996;6(1):29–31

Use of west-western blotting for detection of adenovirus receptors. Tarassishin LA, et al. **Biochemistry (Mosc)** 1997 Jan;62(1):38–40

Use of elastase as an internal standard in immunoblotting techniques. Bazan A, et al. **Biochimie** 1996;78(4):273–6

Reduction of background in protein kinase assays by electroblotting. Enke DA, et al. **Biotechniques** 1997 Jan; 22(1):74–8

Re-probing of immunoblots after storage for more than a decade. Gorr SU. **Biotechniques** 1997 Aug;23(2):250–2, 254

Measurement of antigen by enhanced chemiluminescent western blot. Huang D, et al. **Biotechniques** 1997 Mar; 22(3):454–6, 458

Chemiluminescent detection of protein molecular weight markers in western blot techniques. Liu RH, et al. **Biotechniques** 1997 Apr;22(4):594–5

Quenching of endogenous peroxidase in western blot. Navarre J, et al. **Biotechniques** 1996 Dec;21(6):990–2

Enhanced digital imaging of diaminobenzidene-stained immunoblots. Smejkal GB, et al. **Biotechniques** 1997 Mar; 22(3):462

Repeated probing of western blots obtained from coomassie brilliant blue-stained or unstained polyacrylamide gels. Suck RW, et al. **Biotechniques** 1996 Sep;21(3):418–22

Detection of antibodies to avian leukosis/sarcoma viruses and reticuloendotheliosis viruses in humans by western blot assay. Johnson ES, et al. **Cancer Detect Prev** 1995; 19(6):472–86

Diagnostic value of Western blotting in carbohydrate-deficient glycoprotein syndrome. Seta N, et al. **Clin Chim Acta** 1996 Oct 29;254(2):131–40

Limitation of enzyme-conjugated streptavidin-biotin system in the detection of eukaryotic proteins by immunoblot analysis. Kin SH, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):57–61

Comparison of flow cytometry and western blotting to measure Hsp70. He L, et al. **Cytometry** 1996 Nov 1; 25(3):280–6

Identification and characterization of Brucella ovis immunogenic proteins using two-dimensional electrophoresis and immunoblotting. Teixeira-Gomes AP, et al. **Electrophoresis** 1997 Aug;18(8):1491–7

A rapid, non-radioactive method for the detection of insulin-like growth factor binding proteins by Western ligand blotting. Fowlkes JL, et al. **Endocrinology** 1996 Dec; 137(12):5751–4

Western blotting of NC1 type IV collagen fragments in human plasma. Werle E, et al. **Eur J Clin Invest** 1997 Jul; 27(7):579–88

Western blot monitoring of disseminated Nocardia nova infection treated with clarithromycin, imipenem, and surgical drainage. Burucoa C, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec;15(12):943–7

Serological investigation of enterococcal infections using western blot. Sulaiman A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):826–9

Identification of a Streptococcus suis 60-kDa heat-shock protein using western blotting. Benkirane R, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):379–85

Tick-borne encephalitis diagnosis in patients with inflammatory changes in the cerebrospinal fluid in a region with very low prevalence. Treib J, et al. **Infection** 1996 Sep–Oct;24(5):400–2

Evaluation of western blot in routine diagnosis of hepatitis C virus. Tsopanomichalou M, et al. **Int J Biol Markers** 1997 Jan–Mar;12(1):35–41

Analysis of heterogeneous A4 peptides in human cerebrospinal fluid and blood by a newly developed sensitive Western blot assay. Ida N, et al. **J Biol Chem** 1996 Sep 13;271(37):22908–14

A novel Western blot test containing both viral and recombinant proteins for anticytomegalovirus immunoglobulin M detection. Lazzarotto T, et al. **J Clin Microbiol** 1997 Feb;35(2):393–7

Serodiagnosis of Lyme borreliosis by Borrelia burgdorferi sensu stricto, B. garinii, and B. afzelii western blots (immunoblots). Norman GL, et al. **J Clin Microbiol** 1996 Jul;34(7):1732–8

Comparison of the western blot assay with the neutralizing-antibody and enzyme-linked immunosorbent assays for measuring antibody to verocytotoxin 1. Reymond D, et al. **J Clin Microbiol** 1997 Mar;35(3):609–13

Detection of serum insulin-like growth factor binding proteins on western ligand blots by biotinylated IGF and enhanced chemiluminescence. Op De Beeck L, et al. **J Endocrinol** 1997 Aug;154(2):R1–5

Immunodetection of PrPSc in spleens of some scrapie-infected sheep but not BSE-infected cows. Somerville RA, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2389–96

High resolution autoantibody detection by optimized protein G-horseradish peroxidase immunostaining in a western blotting assay. Hu GR, et al. **J Immunol Methods** 1997 Mar 28;202(2):113–21

Multiple immunoblots after non-electrophoretic bidirectional transfer of a single SDS-PAGE gel with multiple antigens. Kurien BT, et al. **J Immunol Methods** 1997 Jun 23; 205(1):91–4

On the masking of signals on immunoblots by cellular proteins. Poon RY, et al. **J Immunol Methods** 1996 Dec 15;199(2):155–8

Human dehydroepiandrosterone sulfotransferase pharmacogenetics: quantitative Western analysis and gene sequence polymorphisms. Wood TC, et al. **J Steroid Biochem Mol Biol** 1996 Dec;59(5–6):467–78

Electroblotting of proteins from polyacrylamide gels. Dunn MJ. **Methods Mol Biol** 1996;59:363–70

Immunological screening of lambda-phage cDNA expression libraries. Hurst HC. **Methods Mol Biol** 1997;69:155–9

Protein interaction cloning by far-Western screening of lambda-phage cDNA expression libraries. Takayama S, et al. **Methods Mol Biol** 1997;69:171–84

Antigenic profiles for the differentiation of Mobiluncus curtisii and Mobiluncus mulieris by immunoblotting technique. Gatti M, et al. **New Microbiol** 1997 Jul; 20(3):247–52

The use of radioimmune western blotting to evaluate indeterminate western blotting results in blood donor HIV serodiagnosis. Portincasa P, et al. **New Microbiol** 1997 Jul; 20(3):277–81

Construction of multiple-epitope tag sequence by PCR for sensitive Western blot analysis. Nakajima K, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2231–2

Actin-binding membrane proteins identified by F-actin blot overlays. Luna EJ, et al. **Soc Gen Physiol Ser** 1997;52:3–18

STANDARDS

Interpretation criteria for standardized Western blots for three European species of Borrelia burgdorferi sensu lato. Hauser U, et al. **J Clin Microbiol** 1997 Jun;35(6):1433–44

Recommendation to include OspA and OspB in the new immunoblotting criteria for serodiagnosis of Lyme disease. Hilton E, et al. **J Clin Microbiol** 1996 Jun;34(6):1353–4

Impact on human immunodeficiency virus type 1 (HIV-1) seroprevalence of the change in HIV-1 western blot criteria [letter] Aberle-Grasse J, et al. **Transfusion** 1997 Feb;37(2):246–7

New anti-human immunodeficiency virus immunoblot assays resolve nonspecific western blot results [see comments] Zaaijer HL, et al. **Transfusion** 1997 Feb;37(2):193–8. Comment in: Transfusion 1997 Feb;37(2):117–20.

UTILIZATION

Utilization and cost of serologic tests for Lyme disease in Maryland. Strickland GT, et al. **J Infect Dis** 1997 Sep; 176(3):819–21

VETERINARY

Preliminary comparative studies on complement fixation, dot enzyme immunoassay, and western blotting for the detection of antibodies to Mycoplasma mycoides subspecies mycoides SC in Nigerian camel (Camelus dromedarius). Egwu GO, et al. **Acta Vet Hung** 1997;45(2):111–8

BLOW-OUT FRACTURES see **ORBITAL FRACTURES**

BLUE CROSS

Your guide: Contracting with Michigan health plans. The second annual Michigan State Medical Society evaluation. Ford MA, et al. **Mich Med** 1997 Mar;96(3):19–30, 32–3, 35–8 passim

Comprehensive case management in the private sector for patients with severe mental illness. Vallon KR, et al. **Psychiatr Serv** 1997 Jul;48(7):910–4

Improving access to health care for all Virginians. Trigon Blue Cross Blue Shield. Grinnan R. **Va Med Q** 1997 Summer;124(3):160–1

ECONOMICS

Empire strikes back [news] Novarro L. **Hosp Health Netw** 1997 Mar 20;71(6):28, 30

LEGISLATION & JURISPRUDENCE

Narrowing provider choice: any willing provider laws after New York Blue Cross v. Travelers. McCarthy D. **Am J Law Med** 1997;23(1):97–113 (166 ref.)

Insurance. Seeing red about not being Blue [news] **Hosp Health Netw** 1996 Dec 5;70(23):14

Reigning in ERISA preemption? Any willing provider statutes after New York Blue Cross Plans v. Travelers Insurance Co. Einhorn T. **J Contemp Health Law Policy** 1996 Fall;13(1):265–97

ORGANIZATION & ADMINISTRATION

What is happening to the Blues? [letter] Jones S, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):260

Health plan conversions: the view from Blue Cross of California. Schaeffer LD. **Health Aff (Millwood)** 1996 Winter;15(4):183–7

Columbia sings the (Ohio) blues [news] Asplund J. **Hosp Health Netw** 1997 Apr 5;71(7):42, 44, 46

STATISTICS & NUMERICAL DATA

Trends in temporomandibular joint surgery. Gerard MW, et al. **Med Prog Technol** 1996–97;21(4):171–5

TRENDS

Proving the policy wonks wrong. Cain HP 2nd. **Health Aff (Millwood)** 1996 Winter;15(4):105–6

The South Dakota Blue Shield and Blue Cross of Iowa merger. Krafka TL. **S D J Med** 1996 Oct;49(10):386–7

BLUE-EARED PIG DISEASE see **PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME**

BLUE-GREEN BACTERIA see **CYANOBACTERIA**

BLUE SHIELD

Your guide: Contracting with Michigan health plans. The second annual Michigan State Medical Society evaluation. Ford MA, et al. **Mich Med** 1997 Mar;96(3):19–30, 32–3, 35–8 passim

Improving access to health care for all Virginians. Trigon Blue Cross Blue Shield. Grinnan R. **Va Med Q** 1997 Summer;124(3):160–1

ECONOMICS

Empire strikes back [news] Novarro L.
Hosp Health Netw 1997 Mar 20;71(6):28, 30

LEGISLATION & JURISPRUDENCE

Insurance. Seeing red about not being Blue [news] **Hosp Health Netw** 1996 Dec 5;70(23):14

What does it mean? [editorial] Barlow J. **S D J Med** 1996 Sep;49(9):315

ORGANIZATION & ADMINISTRATION

What is happening to the Blues? [letter] Jones S, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):260

Columbia sings the (Ohio) blues [news] Asplund J. **Hosp Health Netw** 1997 Apr 5;71(7):42, 44, 46

TRENDS

Proving the policy wonks wrong. Cain HP 2nd. **Health Aff (Millwood)** 1996 Winter;15(4):105–6

The South Dakota Blue Shield and Blue Cross of Iowa merger. Krafka TL. **S D J Med** 1996 Oct;49(10):386–7

BLUE TOE SYNDROME

Evaluation and management of cholesterol embolization and the blue toe syndrome. Applebaum RM, et al. **Curr Opin Cardiol** 1996 Sep;11(5):533–42 (66 ref.)

[Cholesterol (cholestelin) embolization syndrome--blue toe syndrome] Ishihara T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):469–72 (12 ref.) **(Jpn)**

COMPLICATIONS

Blue toe syndrome associated with rapidly progressive glomerulonephritis: ultimately revealed essential mixed cryoglobulinemia. Fang JT, et al. **Ren Fail** 1997 Jan; 19(1):177–81

ETIOLOGY

[Purple toes and renal insufficiency] Tuininga YS, et al. **Ned Tijdschr Geneeskd** 1997 May 24;141(21):1025–8 (Eng. Abstr.) **(Dut)**

RADIOGRAPHY

Radiological case of the month. Matchett WJ, et al. **J Ark Med Soc** 1996 Mar;92(10):517–8

ULTRASONOGRAPHY

Transesophageal echocardiographic findings in blue toe syndrome exacerbated by anticoagulation. Willens HJ, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):882–4

BLUEGILL see **PERCIFORMES**

BLUETONGUE

DIAGNOSIS

Bluetongue virus detection: a safer reverse-transcriptase polymerase chain reaction for prediction of viremia in sheep. Shad G, et al. **J Vet Diagn Invest** 1997 Apr; 9(2):118–24

Immunoblot assay as a confirmatory test of competitive ELISA for serodiagnosis of bluetongue. Zhou EM, et al. **J Vet Diagn Invest** 1996 Jul;8(3):365–7

Detection by ELISA of bluetongue antigen directly in the blood of experimentally infected sheep. Stanislawek WL, et al. **Vet Microbiol** 1996 Sep;52(1–2):1–12

Evaluation of a competitive enzyme-linked immunosorbent assay to detect infection of cattle in sentinel herds in Queensland, Australia with bluetongue viruses. Ward MP, et al. **Vet Microbiol** 1996 Mar;49(1–2):117–25

EPIDEMIOLOGY

Continued freedom from bluetongue virus infection in cattle and sheep in Western Australia south of latitude 26 degrees S [published erratum appears in Aust Vet J 1996 Dec;74(6):477] Ellis TM, et al. **Aust Vet J** 1996 Oct; 74(4):317–9

Spatial analysis of seroconversion of sentinel cattle to bluetongue viruses in Queensland. Ward MP, et al. **Aust Vet J** 1996 Aug;74(2):128–31

Bluetongue virus seropositivity in sheep flocks in North West Frontier Province, Pakistan. Akhtar S, et al. **Prev Vet Med** 1997 Feb;29(4):293–8

Simulation analysis of the effect of herd immunity and age structure on infection of a cattle herd with bluetongue viruses in Queensland, Australia. Ward MP, et al. **Prev Vet Med** 1997 Feb;29(4):299–309

ETIOLOGY

The role of cell-mediated immunity in the pathogenesis of bluetongue virus serotype 11 in the experimental infection of vaccine/sensitized calves. Odeón AC, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):219–31

IMMUNOLOGY

Evaluation of recombinant bluetongue virus antigens, using dot immunobinding assay with serum from sheep and cattle. Naresh A, et al. **Am J Vet Res** 1996 Nov;57(11):1556–8

Vaccines for bluetongue. Murray PK, et al. **Aust Vet J** 1996 Jun;73(6):207–10 (33 ref.)

The role of cell-mediated immunity in the pathogenesis of bluetongue virus serotype 11 in the experimental infection of vaccine/sensitized calves. Odeón AC, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):219–31

Simulation analysis of the effect of herd immunity and age structure on infection of a cattle herd with bluetongue viruses in Queensland, Australia. Ward MP, et al. **Prev Vet Med** 1997 Feb;29(4):299–309

Cell-mediated immune response and IL-2 production in white-tailed deer experimentally infected with hemorrhagic disease viruses. Quist CF, et al. **Vet Immunol Immunopathol** 1997 May;56(3–4):283–97

PREVENTION & CONTROL

The effects of vaccination of Merino ewes with an attenuated Australian bluetongue virus serotype 23 at different stages of gestation. Flanagan M, et al. **Aust Vet J** 1995 Dec; 72(12):455–7

Vaccines for bluetongue. Murray PK, et al. **Aust Vet J** 1996 Jun;73(6):207–10 (33 ref.)

Genetically engineered particulate virus-like structures and their use as vaccine delivery systems. Roy P. **Intervirology** 1996;39(1–2):62–71 (25 ref.)

VIROLOGY

Bluetongue disease and the molecular epidemiology of viruses from the western United States. Osburn BI, et al. **Comp Immunol Microbiol Infect Dis** 1996 Jun;19(3):181–90

BLUETONGUE VIRUS

CLASSIFICATION

The role of cell-mediated immunity in the pathogenesis of bluetongue virus serotype 11 in the experimental infection of vaccine/sensitized calves. Odeón AC, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):219–31

ENZYMOLOGY

Bluetongue virus VP6 protein binds ATP and exhibits an RNA-dependent ATPase function and a helicase activity that catalyze the unwinding of double-stranded RNA substrates. Stäuber N, et al. **J Virol** 1997 Oct;71(10):7220–6

GENETICS

Bluetongue disease and the molecular epidemiology of viruses from the western United States. Osburn BI, et al. **Comp Immunol Microbiol Infect Dis** 1996 Jun;19(3):181–90

Phylogenetic comparison of the S3 gene of United States prototype strains of bluetongue virus with that of field isolates from California. de Mattos CC, et al. **J Virol** 1996 Aug;70(8):5735–9

Stable protein–RNA interaction involves the terminal domains of bluetongue virus mRNA, but not the terminally conserved sequences. Theron J, et al. **Virology** 1997 Mar 3;229(1):134–42

Phylogenetic comparison of the serotype-specific VP2 protein of bluetongue and related orbiviruses. Pritchard LI, et al. **Virus Res** 1995 Dec;39(2–3):207–20

GROWTH & DEVELOPMENT

Comparative susceptibility of a canine cell line and bluetongue virus susceptible cell lines to a bluetongue virus isolate pathogenic for dogs. Ianconescu M, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr;32(4):249–54

IMMUNOLOGY

Evaluation of recombinant bluetongue virus antigens, using dot immunobinding assay with serum from sheep and cattle. Naresh A, et al. **Am J Vet Res** 1996 Nov;57(11):1556–8

The effects of vaccination of Merino ewes with an attenuated Australian bluetongue virus serotype 23 at different stages of gestation. Flanagan M, et al. **Aust Vet J** 1995 Dec; 72(12):455–7

Spatial analysis of seroconversion of sentinel cattle to bluetongue viruses in Queensland. Ward MP, et al. **Aust Vet J** 1996 Aug;74(2):128–31

Baculovirus-expressed nonstructural protein NS2 of bluetongue virus induces a cytotoxic T-cell response in mice which affords partial protection. Jones LD, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):297–301

The role of cell-mediated immunity in the pathogenesis of bluetongue virus serotype 11 in the experimental infection of vaccine/sensitized calves. Odeón AC, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):219–31

Biological mimicry of the bluetongue virus core protein VP7 by rabbit anti-idiotype. Lin M, et al. **Microbiol Immunol** 1996;40(6):435–41

Bluetongue virus seropositivity in sheep flocks in North West Frontier Province, Pakistan. Akhtar S, et al. **Prev Vet Med** 1997 Feb;29(4):293–8

Prevalence of antibodies to bluetongue, bovine herpesvirus 1 and bovine viral diarrhea/mucosal disease viruses in water buffaloes in Minas Gerais State, Brazil. Lage AP, et al. **Rev Elev Med Vet Pays Trop** 1996;49(3):195–7

Detection by ELISA of bluetongue antigen directly in the blood of experimentally infected sheep. Stanislawek WL, et al. **Vet Microbiol** 1996 Sep;52(1–2):1–12

A complex neutralization domain of bluetongue virus serotype 17 defines a virulence-associated marker. Bernard KA, et al. **Viral Immunol** 1996;9(2):97–106

Structure of Broadhaven virus by cryoelectron microscopy: correlation of structural and antigenic properties of Broadhaven virus and bluetongue virus outer capsid proteins. Schoehn G, et al. **Virology** 1997 Sep 1; 235(2):191–200

ISOLATION & PURIFICATION

Abortion and death in pregnant bitches associated with a canine vaccine contaminated with bluetongue virus. Levings RL, et al. **Dev Biol Stand** 1996;88:219–20

Bluetongue virus in laboratory-reared Culicoides variipennis sonorensis: applications of dot-blot, ELISA, and immunoelectron microscopy. Nunamaker RA, et al. **J Med Entomol** 1997 Jan;34(1):18–23

Applications of dot-blot, ELISA, and immunoelectron microscopy to field detection of bluetongue virus in Culicoides variipennis sonorensis: an ecological perspective. Nunamaker RA, et al. **J Med Entomol** 1997 Jan;34(1):24–8

Bluetongue virus detection: a safer reverse-transcriptase polymerase chain reaction for prediction of viremia in sheep. Shad G, et al. **J Vet Diagn Invest** 1997 Apr; 9(2):118–24

Evaluation of a competitive enzyme-linked immunosorbent assay to detect infection of cattle in sentinel herds in Queensland, Australia with bluetongue viruses. Ward MP, et al. **Vet Microbiol** 1996 Mar;49(1–2):117–25

METABOLISM

VP7: an attachment protein of bluetongue virus for cellular receptors in Culicoides variipennis. Xu G, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1617–23

PATHOGENICITY

In vitro susceptibility of goat mononuclear cells to bluetongue virus. Garg AK, et al. **Indian J Exp Biol** 1996 Aug;34(8):818–26

ULTRASTRUCTURE

Structure of Broadhaven virus by cryoelectron microscopy: correlation of structural and antigenic properties of Broadhaven virus and bluetongue virus outer capsid proteins. Schoehn G, et al. **Virology** 1997 Sep 1; 235(2):191–200

BLUNT INJURIES see **WOUNDS, NONPENETRATING**

BLUSHING

[The Chinese restaurant syndrome (letter)] García Ortiz JC, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):518 **(Spa)**

DRUG EFFECTS

The effect of adrenergic blockade on blushing and facial flushing. Drummond PD. **Psychophysiology** 1997 Mar; 34(2):163–8

PHYSIOLOGY

Blushing and social phobia: a neuroethological speculation. Stein DJ, et al. **Med Hypotheses** 1997 Jul;49(1):101–8 (81 ref.)

Skin hyperemia in a habitual blusher. Steurer J, et al. **Vasa** 1997 May;26(2):135–6

PSYCHOLOGY

Blushing and social phobia: a neuroethological speculation. Stein DJ, et al. **Med Hypotheses** 1997 Jul;49(1):101–8 (81 ref.)

BLV see **LEUKEMIA VIRUS, BOVINE**

BLV ANTIBODIES see **HTLV-BLV ANTIBODIES**

BLV-HTLV VIRUSES see **HTLV-BLV VIRUSES**

BLV INFECTIONS see **HTLV-BLV INFECTIONS**

BOA see **BOIDAE**

BOARD, GOVERNING see **GOVERNING BOARD**

BOATS see **SHIPS**

BOBWHITE see **COLINUS**

BODY BUFFER ZONE see **PERSONAL SPACE**

BODY BUILD see **SOMATOTYPES**

BODY BURDEN

see related
DRUG RESIDUES
PESTICIDE RESIDUES

Exposure limits for unconventional shifts: toxicokinetic and toxicodynamic considerations. Fiserova-Bergerova V, et al. **Am J Ind Med** 1997 Jun;31(6):744–55

Model of multiple exposure to contaminants in monitoring the environmental impact on population health. Kliment V. **Cent Eur J Public Health** 1996 Dec;4(4):246–9

Use of the lethal body burden in the evaluation of mixture toxicity. van Wezel AP, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):236–41

BODY COMPOSITION

Relationship between anthropometric indices of body fat distribution and basal energy metabolism in healthy Maltese women. Pullicino E, et al. **Acta Diabetol** 1996 Sep; 33(3):198–204

Body composition in appropriate and in small for gestational age infants. Lapillonne A, et al. **Acta Paediatr** 1997 Feb; 86(2):196–200

Differences in body composition between female geriatric hip fracture patients and healthy controls: body fat is more important as explanatory factor for the fracture than body weight and lean body mass. Galvard H, et al. **Aging (Milano)** 1996 Aug;8(4):282–6

Age and sex differences in body size and composition during rhesus monkey adulthood. Hudson JC, et al. **Aging (Milano)** 1996 Jun;8(3):197–204

Comparison of standard- and extended-length participation in cardiac rehabilitation on body composition, functional capacity, and blood lipids. Brubaker PH, et al. **Am J Cardiol** 1996 Oct 1;78(7):769–73

Bioelectrical Impedance Analysis in Body Composition Measurement. Proceedings of a National Institutes of Health Technology Assessment Conference. Bethesda, Maryland, December 12–14, 1994. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):387S–532S (0 ref.)

Bioelectrical impedance analysis in body composition measurement: National Institutes of Health Technology Assessment Conference Statement. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):524S–532S (0 ref.)

Determinants of body composition measured by dual-energy X-ray absorptiometry in Dutch children and adolescents. Boot AM, et al. **Am J Clin Nutr** 1997 Aug;66(2):232–8

Peculiar body composition in patients with Prader-Labhart-Willi syndrome [see comments] Brambilla P, et al. **Am J Clin Nutr** 1997 May;65(5):1369–74. Comment in: Am J Clin Nutr 1997 May;65(5):1540–1.

Mechanical and physiologic modifiers and bioelectrical impedance spectrum determinants of body composition. Chumlea WC, et al. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):413S–422S

A distinctive obesity: body composition provides the clue [editorial; comment] Forbes GB. **Am J Clin Nutr** 1997 May; 65(5):1540–1. Comment on: Am J Clin Nutr 1997 May;65(5):1369–74.

Effects of strength or aerobic training on body composition, resting metabolic rate, and peak oxygen consumption in obese dieting subjects. Geliebter A, et al. **Am J Clin Nutr** 1997 Sep;66(3):557–63

Regional body fat distribution in relation to pubertal stage: a dual-energy X-ray absorptiometry study of New Zealand girls and young women. Goulding A, et al. **Am J Clin Nutr** 1996 Oct;64(4):546–51

Use of statistical methods to estimate body composition. Guo SS, et al. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):428S–435S

Techniques used in the measurement of body composition: an overview with emphasis on bioelectrical impedance analysis. Heymsfield SB, et al. **Am J Clin Nutr** 1996 Sep; 64(3 Suppl):478S–484S

A multicenter study of the influence of fat and lean mass on bone mineral content: evidence for differences in their relative influence at major fracture sites. Early Postmenopausal Intervention Cohort (EPIC) Study Group. Hla MM, et al. **Am J Clin Nutr** 1996 Sep;64(3):354–60

Body fat estimation in late pregnancy and early postpartum: comparison of two-, three-, and four-component models. Hopkinson JM, et al. **Am J Clin Nutr** 1997 Feb;65(2):432–8

Prediction of body cell mass, fat-free mass, and total body water with bioelectrical impedance analysis: effects of race, sex, and disease. Kotler DP, et al. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):489S–497S

Biological indexes considered in the derivation of the bioelectrical impedance analysis. Lukaski HC. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):397S–404S

Influence of body composition on bone mineral content in children and adolescents. Manzoni P, et al. **Am J Clin Nutr** 1996 Oct;64(4):603–7

Applications of bioelectrical impedance analysis for body composition to epidemiologic studies. Roubenoff R. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):459S–462S

Standardization of nomenclature of body composition in weight loss. Roubenoff R, et al. **Am J Clin Nutr** 1997 Jul; 66(1):192–6 (36 ref.)

The fatness-specific bioelectrical impedance analysis equations of Segal et al: are they generalizable and practical? Stolarczyk LM, et al. **Am J Clin Nutr** 1997 Jul; 66(1):8–17

Body composition, resting metabolic rate, and energy requirements of short- and normal-stature, low-income Guatemalan children. Wren RE, et al. **Am J Clin Nutr** 1997 Aug;66(2):406–12

Tracking of risk factors for coronary heart disease over a 14-year period: a comparison between lifestyle and biologic risk factors with data from the Amsterdam Growth and Health Study. Twisk JW, et al. **Am J Epidemiol** 1997 May 15;145(10):888–98

Effect of treatment on bone mass, mineral metabolism, and body composition in untreated celiac disease patients. Mautalen C, et al. **Am J Gastroenterol** 1997 Feb;92(2):313–8

Bone mineralization and body composition in young patients with celiac disease. Scotta MS, et al. **Am J Gastroenterol** 1997 Aug;92(8):1331–4

Longitudinal study on the effect of treatment on body composition and anthropometry of celiac disease patients. Smecuol E, et al. **Am J Gastroenterol** 1997 Apr; 92(4):639–43

Relative influence of age and menopause on total and regional body composition changes in postmenopausal women. Trémollieres FA, et al. **Am J Obstet Gynecol** 1996 Dec; 175(6):1594–600

Role of the autonomic nervous system in the thermogenic response to food in lean individuals. De Jonge L, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E775–80

Chronically altered body protein levels following lateral hypothalamic lesions in rats. Hirvonen MD, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R738–43

Improved body composition after 8 wk of electrically stimulated leg cycling in tetraplegic patients. Hjeltnes N, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1072–9

Gender differences in muscle sympathetic nerve activity: effect of body fat distribution. Jones PP, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E363–6

Dual-energy X-ray absorptiometry body composition model: review of physical concepts. Pietrobelli A, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E941–51 (56 ref.)

Plasma leptin responses to fasting in Pima Indians. Pratley RE, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E644–9

A comparative study of different means of assessing long-term energy expenditure in humans. Rosenbaum M, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R496–504

A cross-sectional study on body composition and energy expenditure in women athletes during aging. Ryan AS, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E916–21

Different physiological traits underlying increased body fat of fatty (fa/fa) and heterozygous (+/fa) rats. Schwarzer K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E100–6

Do genetic factors explain associations between muscle strength, lean mass, and bone density? A twin study. Seeman E, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E320–7

Density of fat-free body mass: relationship with race, age, and level of body fatness. Visser M, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E781–7

Body size, body composition and motor performances of mild-to-moderately undernourished Senegalese children. Benefice E, et al. **Ann Hum Biol** 1996 Jul-Aug;23(4):307–21

Prediction of total body water in Indian men from anthropometry and bioelectrical impedance using deuterium dilution as reference. Borgonha S, et al. **Ann Hum Biol** 1997 Jul-Aug;24(4):355–61

Body composition of rural and urban children from the central region of Spain. Mesa MS, et al. **Ann Hum Biol** 1996 May-Jun;23(3):203–12

Longitudinal changes in body composition in women approaching the midlife. Sowers MF, et al. **Ann Hum Biol** 1996 May-Jun;23(3):253–65

Relationship of body composition measures and menstrual cycle length. Symons JP, et al. **Ann Hum Biol** 1997 Mar-Apr;24(2):107–16

Relationship between postprandial lipemia and body composition in obese girls. Bueno M, et al. **Ann N Y Acad Sci** 1997 May 28;817:375–7

Relationship between physical activity and body composition in adolescents. Moreno LA, et al. **Ann N Y Acad Sci** 1997 May 28;817:372–4

Sports-related problems in reproductive function. Orley J. **Ann N Y Acad Sci** 1997 Jun 17;816:285–94 (15 ref.)

Effect of altitude on body composition during mountaineering expeditions: interrelationships with changes in dietary habits. Zamboni M, et al. **Ann Nutr Metab** 1996; 40(6):315–24

Human body composition: advances in models and methods. Heymsfield SB, et al. **Annu Rev Nutr** 1997;17:527–58 (78 ref.)

Lipolysis: contribution from regional fat. Jensen MD. **Annu Rev Nutr** 1997;17:127–39 (42 ref.)

Evaluation of methodology for nutritional assessment in children: anthropometry, body composition, and energy expenditure. Zemel BS, et al. **Annu Rev Nutr** 1997; 17:211–35 (126 ref.)

The use of associated particle timing based on the D + D reaction for elemental analysis of bulk samples such as the human body. Evans CJ, et al. **Appl Radiat Isot** 1997 Feb; 48(2):257–66

Cardiorespiratory function, flexibility, and body composition among geriatric Tai Chi Chuan practitioners. Lan C, et al. **Arch Phys Med Rehabil** 1996 Jun;77(6):612–6

The pattern of protein and energy retention and the chemical composition of the body in White Leghorn pullets. Burlacu G, et al. **Arch Tierernahr** 1996;49(4):263–77

Validation of body composition assessment techniques in the dialysis population. Lukaski HC. **ASAIO J** 1997 May-Jun; 43(3):251–5 (31 ref.)

Body composition changes in elite male bodybuilders during preparation for competition. Withers RT, et al. **Aust J Sci Med Sport** 1997 Mar;29(1):11–6

A neutron activation analysis facility for in vivo measurement of nitrogen and chlorine in children. Borovnicar DJ, et al. **Australas Phys Eng Sci Med** 1996 Dec;19(4):252–63

Breast composition and radiographic breast equivalence. McLean D. **Australas Phys Eng Sci Med** 1997 Mar; 20(1):11–9

A study of objective functions for organs with parallel and serial architecture. Stavrev PV, et al. **Australas Phys Eng Sci Med** 1997 Mar;20(1):4–10

Measurement of soft tissue composition by dual energy X-ray absorptiometry. Jebb SA. **Br J Nutr** 1997 Feb;77(2):151–63 (57 ref.)

Body composition in female anorexia nervosa patients. Probst M, et al. **Br J Nutr** 1996 Nov;76(5):639–47

The prediction of total body water from bioelectrical impedance in patients with anorexia nervosa. Scalfi L, et al. **Br J Nutr** 1997 Sep;78(3):357–65

Subcutaneous and visceral fat distribution and daily physical activity: comparison between young and middle aged women. Abe T, et al. **Br J Sports Med** 1996 Dec; 30(4):297–300

Seasonal variations in the body composition of lightweight rowers. Morris FL, et al. **Br J Sports Med** 1996 Dec; 30(4):301–4

Ultrasonographic assessment of adipose tissue volume [letter; comment] Moscrip V, et al. **Br J Sports Med** 1997 Mar; 31(1):84–5. Comment on: Br J Sports Med 1994 Mar;28(1):9–13.

Bone density and body composition in Japanese women. Ohmura A, et al. **Calcif Tissue Int** 1997 Aug;61(2):117–22

Circadian rhythms in human body composition. Cugini P, et al. **Chronobiol Int** 1996 Nov;13(5):359–71

Insulin-like growth factor-I in growth hormone-deficient adults: relationship to population-based normal values, body composition and insulin tolerance test. Svensson J, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):579–86

Accuracy of measurements of small changes in soft-tissue mass by dual-energy x-ray absorptiometry. Lands LC, et al. **Clin Invest Med** 1996 Aug;19(4):279–85

Bodyfat analysis and perception of body image. Sisson BA, et al. **Clin Pediatr (Phila)** 1997 Jul;36(7):415–8

Reduced serum cholecystokinin and increase in body fat during oral contraception. Hirschberg AL, et al. **Contraception** 1996 Feb;53(2):109–13

Estimation of total body and extracellular water in post-coronary artery bypass graft surgical patients using single and multiple frequency bioimpedance [see comments] Patel RV, et al. **Crit Care Med** 1996 Nov;24(11):1824–8. Comment in: Crit Care Med 1997 May;25(5):894–5.

Relationship of generalized and regional adiposity to insulin sensitivity in men with NIDDM. Abate N, et al. **Diabetes** 1996 Dec;45(12):1684–93

Visceral fat and race-dependent health risks in obese nondiabetic premenopausal women. Albu JB, et al. **Diabetes** 1997 Mar;46(3):456–62

The TNF-alpha gene Nco I polymorphism influences the relationship among insulin resistance, percent body fat, and increased serum leptin levels. Fernández-Real JM, et al. **Diabetes** 1997 Sep;46(9):1468–72

Muscle Rad expression and human metabolism: potential role of the novel Ras-related GTPase in energy expenditure and body composition. Garvey WT, et al. **Diabetes** 1997 Mar;46(3):444–50

Seven-year changes in body fat and visceral adipose tissue in women. Association with indexes of plasma glucose-insulin homeostasis. Lemieux S, et al. **Diabetes Care** 1996 Sep;19(9):983–91

Body composition and childhood obesity. Harsha DW, et al. **Endocrinol Metab Clin North Am** 1996 Dec;25(4):871–85 (55 ref.)

Changes in the plantaris muscle as an indicator of alterations in lean body mass of obese Zucker rats following prolonged energy restriction and subsequent partial recovery. Bemben MG, et al. **Eur J Appl Physiol** 1997;76(3):277–81

Validation of a dual energy X-ray absorptiometer: measurement of bone mass and soft tissue composition. Madsen OR, et al. **Eur J Appl Physiol** 1997;75(6):554–8

Muscle strength and soft tissue composition as measured by dual energy x-ray absorptiometry in women aged 18–87 years. Madsen OR, et al. **Eur J Appl Physiol** 1997; 75(3):239–45

The prediction of total body water and extracellular water from bioelectric impedance in obese children. Bedogni G, et al. **Eur J Clin Nutr** 1997 Mar;51(3):129–33

Altered body water distribution in subjects with juvenile rheumatoid arthritis and its effects on the measurement of water compartments from bioelectric impedance. Bedogni G, et al. **Eur J Clin Nutr** 1996 Jun;50(6):335–9

Urea kinetics varies in Jamaican women and men in relation to adiposity, lean body mass and protein intake. Child SC, et al. **Eur J Clin Nutr** 1997 Feb;51(2):107–15

A multi-center comparison of dual energy X-ray

absorptiometers: in vivo and in vitro soft tissue measurement. Economos CD, et al. **Eur J Clin Nutr** 1997 May;51(5):312–7

The impact of zinc supplementation on growth and body composition: a randomized, controlled trial among rural Zimbabwean schoolchildren. Friis H, et al. **Eur J Clin Nutr** 1997 Jan;51(1):38–45

The influence of fat free mass on prediction of densitometric body composition by bioelectrical impedance analysis and by anthropometry. Han TS, et al. **Eur J Clin Nutr** 1996 Aug;50(8):542–8

Body composition analysis by dual energy X-ray absorptiometry in female diabetics differ between manufacturers. Kistorp CN, et al. **Eur J Clin Nutr** 1997 Jul;51(7):449–54

Bone mass, bone turnover and body composition in former hypothyroid patients receiving replacement therapy. Langdahl BL, et al. **Eur J Endocrinol** 1996 Jun;134(6):702–9

Serum leptin in obesity is related to gender and body fat topography but does not predict successful weight loss. Niskanen LK, et al. **Eur J Endocrinol** 1997 Jul;137(1):61–7

Bioelectrical impedance assessment of body composition in thyroid disease. Seppel T, et al. **Eur J Endocrinol** 1997 May;136(5):493–8

The assessment of body composition in patients with cirrhosis. Morgan MY, et al. **Eur J Nucl Med** 1996 Feb; 23(2):213–25 (90 ref.)

Body composition in children based on anthropometric data. A presentation of normal values. Gerver WJ, et al. **Eur J Pediatr** 1996 Oct;155(10):870–6

Reference values for maximum work capacity in relation to body composition in healthy Dutch children. Gulmans VA, et al. **Eur Respir J** 1997 Jan;10(1):94–7

Body composition and health-related quality of life in patients with obstructive airways disease. Shoup R, et al. **Eur Respir J** 1997 Jul;10(7):1576–80

Body composition and energy expenditure in obese patients prior to and following biliopancreatic diversion for obesity. Adami GF, et al. **Eur Surg Res** 1996 Jul–Aug;28(4):295–8

Plasma leptin is directly related to body adiposity in subjects with spinal cord injury. Bauman WA, et al. **Horm Metab Res** 1996 Dec;28(12):732–6

Hyperleptinemia: relationship to adiposity and insulin resistance in the spontaneously obese rhesus monkey. Bodkin NL, et al. **Horm Metab Res** 1996 Dec;28(12):674–8

Dissociation of serum leptin concentration and body fat content during long term dietary intervention in obese individuals. Scholz GH, et al. **Horm Metab Res** 1996 Dec; 28(12):718–23

Plasma leptin levels and body fat distribution. Takahashi M, et al. **Horm Metab Res** 1996 Dec;28(12):751–2

Stable isotopes and bioelectrical impedance for measuring body composition in infants born small for gestational age. Davies PS. **Horm Res** 1997;48 Suppl 1:50–5 (30 ref.)

Dual-energy X-ray absorptiometry in early life. Lapillonne A, et al. **Horm Res** 1997;48 Suppl 1:43–9 (47 ref.)

Measurement of body composition: applications in hormone research. Pierson RN Jr, et al. **Horm Res** 1997;48 Suppl 1:56–62 (17 ref.)

Anthropometry and body composition in children. Van den Broeck J, et al. **Horm Res** 1997;48 Suppl 1:33–42 (130 ref.)

Interviewer variability in anthropometric measurements and estimates of body composition. Klipstein-Grobusch K, et al. **Int J Epidemiol** 1997;26 Suppl 1:S174–80

Relationship of uric acid concentration to cardiovascular risk factors in young men. Role of obesity and central fat distribution. The Verona Young Men Atherosclerosis Risk Factors Study. Bonora E, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):975–80

Visceral adiposity, fasting plasma insulin, and lipid and lipoprotein levels in Japanese Americans. Boyko EJ, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):801–8

Obesity, adiposity, and lengthening of the QT interval: improvement after weight loss. Carella MJ, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):938–42

Relationship of obesity and body fat distribution with ceruloplasmin serum levels. Cignarelli M, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):809–13

Associations between 12 year changes in body fatness and lipoprotein-lipid levels in men and women of the Québec Family Study. Couillard C, et al. **Int J Obes Relat Metab Disord** 1996 Dec;20(12):1081–8

Measuring body fatness in children and young adults: comparison of bioelectric impedance analysis, total body electrical conductivity, and dual-energy X-ray absorptiometry. Ellis KJ. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):866–73

Influences of body weight, body composition, and substrate oxidation rate on resting postabsorptive glucose production and gluconeogenesis. Giusti V, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):842–7

Physical activity related energy expenditure and fat mass in young children. Goran MI, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):171–8

DEXA supports the use of BMI as a measure of fatness in young girls. Goulding A, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1014–21

Leptin concentrations in relation to overall adiposity and regional body fat distribution in Mexican Americans. Haffner SM, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):904–8

Body composition during weight loss in obese patients estimated by dual energy X-ray absorptiometry and by total body potassium. Hendel HW, et al. **Int J Obes Relat Metab Disord** 1996 Dec;20(12):1111–9

Intra-abdominal adipose tissue, physical activity and cardiovascular risk in pre- and post-menopausal women. Hunter GR, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):860–5

Inappropriate testing of DEXA in vitro [letter; comment] Mazess RB. **Int J Obes Relat Metab Disord** 1997 Feb; 21(2):162. Comment on: Int J Obes Relat Metab Disord 1996 Jul;20(7):677–82.

Effects of variations in regional composition on soft tissue measurements by dual-energy X-ray absorptiometry [see comments] Milliken LA, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):677–82. Comment in: Int J Obes Relat Metab Disord 1997 Feb;21(2):162.

Effects of body fat distribution on body size estimation accuracy among obese women. Rhodes SK, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):250–3

Body composition in normal subjects: relation to lipid and glucose variables. Rosenfalck AM, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1006–13

The influence of occupational and social factors on obesity and body fat distribution in middle-aged men. Rosmond R, et al. **Int J Obes Relat Metab Disord** 1996 Jul; 20(7):599–607

Inhibition of regain in body weight and fat with addition of 3-carbon compounds to the diet with hyperenergetic refeeding after weight reduction. Stanko RT, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):925–30

Dexfenfluramine as an adjunct to a reduced-fat, ad libitum diet: effects on body composition, nutrient intake and cardiovascular risk factors. Swinburn BA, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1033–40

Body composition differences between Polynesians and Caucasians assessed by bioelectrical impedance. Swinburn BA, et al. **Int J Obes Relat Metab Disord** 1996 Oct; 20(10):889–94

Dual energy X-ray absorptiometry: inter-machine variability. Tataranni PA, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1048–50

The reallocation of body fat toward the abdomen persists to very old age, while body mass index declines after middle age in Chinese. Teh BH, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):683–7

The relationship between components of infant energy expenditure and childhood body fatness. Wells JC, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):848–53

Dietary fat and body fat: an intervention study. Westerterp KR, et al. **Int J Obes Relat Metab Disord** 1996 Nov; 20(11):1022–6

Relationship between physical activity related energy expenditure and body composition: a gender difference. Westerterp KR, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):184–8

Reproducibility of anthropometric and body composition measurements: the HERITAGE Family Study. Wilmore JH, et al. **Int J Obes Relat Metab Disord** 1997 Apr; 21(4):297–303

Body fat distribution before and after weight gain in anorexia nervosa. Zamboni M, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):33–6

Short-term changes in body composition and metabolism with severe dieting and resistance exercise. Gornall J, et al. **Int J Sport Nutr** 1996 Sep;6(3):285–94

Assessment of body composition in youths and relationship to sport. Houtkooper LB. **Int J Sport Nutr** 1996 Jun; 6(2):146–64 (48 ref.)

Effects of ingesting supplements designed to promote lean tissue accretion on body composition during resistance training. Kreider RB, et al. **Int J Sport Nutr** 1996 Sep; 6(3):234–46

Estimation of body composition in competitive swimmers by means of three different techniques. Avlonitou E, et al. **Int J Sports Med** 1997 Jul;18(5):363–8

Body composition, cardiovascular risk factors and liver function in long-term androgenic-anabolic steroids using bodybuilders three months after drug withdrawal. Hartgens F, et al. **Int J Sports Med** 1996 Aug;17(6):429–33

Combined effects of caloric restriction and branched-chain amino acid supplementation on body composition and exercise performance in elite wrestlers. Mourier A, et al. **Int J Sports Med** 1997 Jan;18(1):47–55

Physical performance and metabolic recovery among lean, healthy men following a prolonged energy deficit. Nindl BC, et al. **Int J Sports Med** 1997 Jul;18(5):317–24

Sport-seasonal changes in body composition, growth, power and strength of adolescent wrestlers. Roemmich JN, et al. **Int J Sports Med** 1996 Feb;17(2):92–9

Cross-sectional and longitudinal evaluation of body composition in men with HIV infection. Mulligan K, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):43–8

Longitudinal changes in body composition measured with a variety of methods in patients with AIDS. Paton NI, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Feb 1;14(2):119–27

Body fat percentage of children varies according to their diet composition. Tucker LA, et al. **J Am Diet Assoc** 1997 Sep;97(9):981–6

Cross-validation of anthropometric and bioelectrical resistance prediction equations for body composition in older people using the 4-compartment model as a criterion method. Goran MI, et al. **J Am Geriatr Soc** 1997 Jul; 45(7):837–43

Association of insulin-like growth factor-I with body composition, weight history, and past health behaviors in the very old: the Framingham Heart Study. Harris TB, et al. **J Am Geriatr Soc** 1997 Feb;45(2):133–9

Predicting body cell mass with bioimpedance by using theoretical methods: a technological review. De Lorenzo A, et al. **J Appl Physiol** 1997 May;82(5):1542–58 (50 ref.)

Twenty-year follow-up of aerobic power and body composition of older track athletes. Pollock ML, et al. **J Appl Physiol** 1997 May;82(5):1508–16

In vivo validation of whole body composition estimates from dual-energy X-ray absorptiometry. Prior BM, et al. **J Appl Physiol** 1997 Aug;83(2):623–30

Weight loss and wrestling training: effects on nutrition, growth, maturation, body composition, and strength. Roemmich JN, et al. **J Appl Physiol** 1997 Jun;82(6):1751–9

Body composition in clinically stable men with HIV infection. Grady C, et al. **J Assoc Nurses AIDS Care** 1996 Nov–Dec;7(6):29–38

Relationship between body composition and bone mass in women. Khosla S, et al. **J Bone Miner Res** 1996 Jun; 11(6):857–63

Body composition in normal black women: the four-compartment model. Aloia JF, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2363–9

Insulin sensitivity, lipids, and body composition in childhood: is "syndrome X" present? Arslanian S, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1058–62

Changes in bone mineral density, body composition, and lipid metabolism during growth hormone (GH) treatment in children with GH deficiency. Boot AM, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2423–8

Changes in body composition of human immunodeficiency virus-infected males receiving insulin-like growth factor I and growth hormone. Ellis KJ, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3033–8

Abdominal fat determines growth hormone-binding protein levels in healthy nonobese adults. Fisker S, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):123–8

Body composition derived from whole body counting of potassium in GH deficient adults [letter; comment] Forbes GB. **J Clin Endocrinol Metab** 1996 Nov;81(11):4182–3. Comment on: J Clin Endocrinol Metab 1996 May;81(5):1720–3.

Body weight, body fat distribution, and hormonal replacement therapy in early postmenopausal women. Gambacciani M, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):414–7

Body composition and physical fitness are major determinants of the growth hormone-insulin-like growth factor axis aberrations in adult Turner's syndrome, with important modulations by treatment with 17 beta-estradiol. Gravholt CH, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2570–7

Body composition and endocrine function in women with acquired immunodeficiency syndrome wasting. Grinspoon S, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1332–7

Peak and trough growth hormone concentrations have different associations with the insulin-like growth factor axis, body composition, and metabolic parameters. Hindmarsh PC, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2172–6

Circadian cortisol rhythms in healthy boys and girls: relationship with age, growth, body composition, and pubertal development. Knutsson U, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):536–40

A paradigm of experimentally induced mild hyperthyroidism: effects on nitrogen balance, body composition, and energy expenditure in healthy young men. Lovejoy JC, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):765–70

Gain in body fat is inversely related to the nocturnal rise in serum leptin level in young females. Matkovic V, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1368–72

Effects of gender, ethnicity, body composition, and fat distribution on serum leptin concentrations in children. Nagy TR, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2148–52

Serum insulin-like growth factor I (IGF-I), IGF-binding protein-1 and -3, and the acid-labile subunit as serum markers of body composition during growth hormone (GH) therapy in adults with GH deficiency. Thorén M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):223–8

Effect of regional fat distribution and Prader-Willi syndrome on plasma leptin levels. Weigle DS, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):566–70

Validity of the Physical Activity Scale for the Elderly (PASE): according to energy expenditure assessed by the doubly labeled water method. Schuit AJ, et al. **J Clin Epidemiol** 1997 May;50(5):541–6

Targeted gene disruption reveals a leptin-independent role for the mouse beta3-adrenoceptor in the regulation of body composition. Revelli JP, et al. **J Clin Invest** 1997 Sep 1; 100(5):1098–106

Relationship between body condition scores and milk yield in a large dairy herd of high yielding Holstein cows. Domecq JJ, et al. **J Dairy Sci** 1997 Jan;80(1):101–12

Relationship between body condition scores and conception at first artificial insemination in a large dairy herd of high yielding Holstein cows. Domecq JJ, et al. **J Dairy Sci** 1997

Jan;80(1):113–20
Change in body condition score of Holstein cows as affected by parity and mature equivalent milk yield. Gallo L, et al. **J Dairy Sci** 1996 Jun;79(6):1009–15
Body weight, body condition score, and wither height of prepartum Holstein cows and birth weight and sex of calves by parity: a database and summary. Kertz AF, et al. **J Dairy Sci** 1997 Mar;80(3):525–9
Factors affecting body tissue mobilization in early lactation dairy cows. 1. Effect of dietary protein on mobilization of body fat and protein. Komaragiri MV, et al. **J Dairy Sci** 1997 May;80(5):929–37
Influence of undergradability of protein in the diet on intake, daily gain, feed efficiency, and body composition of Holstein heifers. Tomlinson DL, et al. **J Dairy Sci** 1997 May;80(5):943–8
Defining obesity in patients undergoing orthotopic heart transplantation: body mass index versus percent body fat. Leaf DA, et al. **J Heart Lung Transplant** 1997 May; 16(5):563–5
Body composition and blood pressure: which indices of fatness show the strongest correlation? Ahmed M–el B, et al. **J Hum Hypertens** 1996 Jun;10(6):365–8
Influence of menopause on blood cholesterol levels in women: the role of body composition, fat distribution and hormonal milieu. Virgilio Menopause Health Group. Pasquali R, et al. **J Intern Med** 1997 Mar;241(3):195–203
Composition of gestational weight gain in adolescent pregnancy. Stevens–Simon C, et al. **J Matern Fetal Med** 1997 Mar–Apr;6(2):79–86
The size of the vertebral canal and the significance of epidural fat in lumbar spinal stenosis. Prasartritha T, et al. **J Med Assoc Thai** 1997 Apr;80(4):247–56
Pancreatic islet transplantation improves body composition, decreases energy intake and normalizes energy efficiency in previously diabetic female rats. Tobin BW, et al. **J Nutr** 1997 Jun;127(6):1191–7
Effects of intermittent food restriction and refeeding on energy efficiency and body fat deposition in sedentary and exercised rats. Lim K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):449–68
The relation between body-fat distribution and lipid metabolism in postmenopausal women. Douchi T, et al. **J Obstet Gynaecol Res** 1996 Aug;22(4):353–8
Application of bioimpedance analysis for estimating body composition in prepubertal children infected with human immunodeficiency virus type 1 [see comments] Arpadi SM, et al. **J Pediatr** 1996 Nov;129(5):755–7. Comment in: J Pediatr 1996 Nov;129(5):633–6.
Energy expenditure and body composition in children with spastic quadriplegic cerebral palsy. Azcue MP, et al. **J Pediatr** 1996 Dec;129(6):870–6
Human milk protein does not limit growth of breast-fed infants. Motil KJ, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):10–7
Effects of neurological diseases on body composition and energy metabolism. Pencharz PB. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S30–1
Restoration of body composition in celiac children after one year of gluten–free diet. Rea F, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):408–12
Lipoprotein profile, diet and body composition in athletes practicing mixed an anaerobic activities. Giada F, et al. **J Sports Med Phys Fitness** 1996 Sep;36(3):211–6
Physiological profile of age–group wrestlers. Terbizan DJ, et al. **J Sports Med Phys Fitness** 1996 Sep;36(3):178–85
Does multifrequency bioelectrical impedance relate to body composition? Suzuki H, et al. **J Surg Res** 1996 Sep; 65(1):63–9
Fat mass, fat mass percentage, body mass index, and mid–upper arm circumference in a healthy population of Nigerian children. Owa JA, et al. **J Trop Pediatr** 1997 Feb; 43(1):13–9
Effect of low- and high-fat, peptide-based diets on body composition and disease activity in adolescents with active Crohn's disease. Khoshoo V, et al. **JPEN J Parenter Enteral Nutr** 1996 Nov–Dec;20(6):401–5
Testosterone replacement increases fat–free mass and muscle size in hypogonadal men. Szeszycki EE. **JPEN J Parenter Enteral Nutr** 1997 Jul–Aug;21(4):241–2
Monitoring of extracellular and total body water during haemodialysis using multifrequency bio–electrical impedance analysis. Johnson DW, et al. **Kidney Blood Press Res** 1996;19(2):94–9
Body composition of the 12–week–old pig studied by dissection. Elowsson P, et al. **Lab Anim Sci** 1997 Apr; 47(2):200–2
The effect of body composition on bone density in pre– and postmenopausal women. Douchi T, et al. **Maturitas** 1997 May;27(1):55–60
Age–related changes in body composition of healthy and osteoporotic women. Martini G, et al. **Maturitas** 1997 May; 27(1):25–33
Cerebral bioimpedance pattern as a function of psychiatric signs and symptoms. Naisberg Y, et al. **Med Hypotheses** 1997 Feb;48(2):171–5
Predictive accuracy of bioimpedance in estimating fat–free mass of African–American women. Ainsworth BE, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):781–7
Allometric scaling of left ventricular mass by body dimensions in males and females. Batterham AM, et al. **Med Sci Sports Exerc** 1997 Feb;29(2):181–6
Assessing body composition before and after resistance or endurance training. Broeder CE, et al. **Med Sci Sports Exerc** 1997 May;29(5):705–12
Body composition by DEXA in older adults: accuracy and influence of scan mode. Clasey JL, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):560–7
Skeletal muscle function and body composition of patients with hyperthyroidism. Da Nóbrega AC, et al. **Med Sci Sports Exerc** 1997 Feb;29(2):175–80
Validity of bioelectrical impedence equations for estimating fat–free weight in high school female gymnasts. Eckerson JM, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):962–8
Effects of chromium and resistive training on muscle strength and body composition. Hallmark MA, et al. **Med Sci Sports Exerc** 1996 Jan;28(1):139–44
Changes in aerobic power of women, ages 20–64 yr. Jackson AS, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):884–91
Bioimpedance analysis: evaluation of leg–to–leg system based on pressure contact footpad electrodes. Nuñez C, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):524–31
A new method for monitoring hydration at high altitude by bioimpedance analysis. Piccoli A, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):1517–22
Ethnic and age trends for body composition in women residing in the U.S. Southwest: II. Total fat. Thomas KT, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):90–8
Ethnic and age trends for body composition in women residing in the U.S. Southwest: I. Regional fat. Thomas KT, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):82–9
Leg power in young women: relationship to body composition, strength, and function. Thomas M, et al. **Med Sci Sports Exerc** 1996 Oct;28(10):1321–6
Predictive accuracy of BIA equations for estimating fat–free mass of black men. Wagner DR, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):969–74
Body composition in normal and osteoporotic women. Mautalen C, et al. **Medicina (B Aires)** 1996;56(1):29–34
Effects of aging on dehydroepiandrosterone sulfate in relation to fasting insulin levels and body composition assessed by bioimpedance analysis. Denti L, et al. **Metabolism** 1997 Jul; 46(7):826–32
Serum leptin is increased in growth hormone–deficient adults: relationship to body composition and effects of placebo–controlled growth hormone therapy for 1 year. Fisker S, et al. **Metabolism** 1997 Jul;46(7):812–7
Metabolically active component of fat–free body mass: influences of age, adiposity, and gender. Gallagher D, et al. **Metabolism** 1996 Aug;45(8):992–7
Body composition changes in chronic hemodialysis patients before and after hemodialysis as assessed by dual–energy x–ray absorptiometry. Georgiou E, et al. **Metabolism** 1997 Sep;46(9):1059–62
Factors affecting fibrinolytic potential: cardiovascular fitness, body composition, and lipoprotein(a). Szymanski LM, et al. **Metabolism** 1996 Nov;45(11):1427–33
The effect of arteriovenous fistulae in haemodialysis patients on whole body and segmental bioelectrical impedance. Woodrow G, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):524–7
Whole body and regional body composition in patients with chronic renal failure. Woodrow G, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1613–8
Application of total body bioimpedance to the critically ill patient. Brazilian Group for Bioimpedance Study. Máttar JA. **New Horiz** 1996 Nov;4(4):493–503
Long–term fetal programming of body composition and longevity. James WP. **Nutr Rev** 1997 Jan;55(1 Pt 2):S31–41; discussion S41–3 (55 ref.)
The effects of dairy products on body composition, bone mineralization, and weight in adolescent girls (Nutr Rev 1996;54:64–65) [letter; comment] Kerstetter J, et al. **Nutr Rev** 1996 Feb;54(2 Pt 1):66. Comment on: Nutr Rev 1996 Feb;54(2 Pt 1):64–5.
The role of radiologic methods in assessing body composition and related metabolic parameters. Plourde G. **Nutr Rev** 1997 Aug;55(8):289–96 (76 ref.)
The effects of dairy products on body composition, bone mineralization, and weight in adolescent girls [see comments] Solomons NW. **Nutr Rev** 1996 Feb;54(2 Pt 1):64–5. Comment in: Nutr Rev 1996 Feb;54(2 Pt 1):66.
NIH Consensus statement. Bioelectrical impedance analysis in body composition measurement. National Institutes of Health Technology Assessment Conference Statement. December 12–14, 1994. **Nutrition** 1996 Nov–Dec; 12(11–12):749–62 (0 ref.)
Can body composition in multiple organ failure be favorably influenced by feeding? Campbell IT. **Nutrition** 1997 Sep; 13(9 Suppl):79S–83S (56 ref.)
The right weight: body fat, menarche, and fertility [editorial] Frisch RE. **Nutrition** 1996 Jun;12(6):452–3
Food intake and body composition in cancer cachexia. Giacosa A, et al. **Nutrition** 1996 Jan;12(1 Suppl):S20–3 (36 ref.)
The effect of the rate and route of nutrient delivery on total body and organ composition in rats. Kee AJ, et al. **Nutrition** 1996 Mar;12(3):180–8
Dual–energy X–ray absorptiometry and body composition. Laskey MA. **Nutrition** 1996 Jan;12(1):45–51 (39 ref.)
The potential role of dual–energy X–ray absorptiometry in the assessment of body composition in cirrhotic patients. Madden AM, et al. **Nutrition** 1997 Jan;13(1):40–5 (60 ref.)
A comparison of body fat estimates using anthropometry and bioelectrical impedance analysis with distinct prediction equations in elderly persons in the Republic of Guatemala. Mazariegos M, et al. **Nutrition** 1996 Mar;12(3):168–75
Update: NIH consensus conference. Bioelectrical impedance analysis for the measurement of human body composition: where do we stand and what is the next step? Schoeller DA. **Nutrition** 1996 Nov–Dec;12(11–12):760–2 (10 ref.)
Resting energy expenditure, weight loss, and altered body composition in HIV infection [see comments] Schwenk A, et al. **Nutrition** 1996 Sep;12(9):595–601. Comment in: Nutrition 1996 Sep;12(9):641–2.
Sagittal diameter minus subcutaneous thickness. An easy–to–obtain parameter that improves visceral fat prediction. Armellini F, et al. **Obes Res** 1997 Jul; 5(4):315–20
Serial measurements of body composition in obese subjects during a very–low–energy diet (VLED) comparing bioelectrical impedance with hydrodensitometry. Carella MJ, et al. **Obes Res** 1997 May;5(3):250–6
Birth weight and its relationship to size attained and relative fat distribution at 7 to 12 years of age. Malina RM, et al. **Obes Res** 1996 Jul;4(4):385–90
A low sympathoadrenal activity is associated with body weight gain and development of central adiposity in Pima Indian men. Tataranni PA, et al. **Obes Res** 1997 Jul; 5(4):341–7
Comparisons for body mass index and body fat percent among Puerto Ricans, blacks, whites and Asians living in the New York City area. Wang J, et al. **Obes Res** 1996 Jul;4(4):377–84
Effects of visceral fat and weight loss on lipoprotein(a) concentration in subjects with obesity. Zamboni M, et al. **Obes Res** 1997 Jul;5(4):332–7
Sonographic estimation of fetal body composition with gestational diabetes mellitus at term. Crane SS, et al. **Obstet Gynecol** 1996 Nov;88(5):849–54
Improvement in the accuracy of dual energy x–ray absorptiometry for whole body and regional analysis of body composition: validation using piglets and methodologic considerations in infants. Brunton JA, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):590–6
Ability of biolectric impedance to predict fat–free mass in prepubertal children. Reilly JJ, et al. **Pediatr Res** 1996 Jan; 39(1):176–9
A review of in vivo experimental methods to determine the composition of the human body. Sutcliffe JF. **Phys Med Biol** 1996 May;41(5):791–833 (129 ref.)
Detection of animal tissue thickness using simple vertical electric sounding (VES). Gonzalez CA, et al. **Physiol Meas** 1997 Feb;18(1):85–91
Energetics, growth, and body composition of Adélie penguin chicks, Pygoscelis adeliae. Janes DN. **Physiol Zool** 1997 Mar–Apr;70(2):237–43
Basal metabolic rate in relation to body composition and daily energy expenditure in the field vole, Microtus agrestis. Meerlo P, et al. **Physiol Zool** 1997 May–Jun;70(3):362–9
Changes in body composition and adipocyte cellularity of male broilers subjected to varying degrees of early–life feed restriction. Zubair AK, et al. **Poult Sci** 1996 Jun; 75(6):719–28
Energy expenditure, body composition, and disease risk in children and adolescents. Goran MI. **Proc Nutr Soc** 1997 Mar;56(1B):195–209 (110 ref.)
Change in fat–free mass assessed by bioelectrical impedance, total body potassium and dual energy X–ray absorptiometry during prolonged weight loss. Hendel HW, et al. **Scand J Clin Lab Invest** 1996 Dec;56(8):671–9
Comparison of body composition by dual energy X–ray absorptiometry to other estimates of body composition during weight loss in obese patients with rheumatoid arthritis. Pødenphant J, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):615–25
Validity of dual X–ray absorptiometry scanning for determination of body composition in IDDM patients. Rosenfalck AM, et al. **Scand J Clin Lab Invest** 1995 Dec; 55(8):691–9
Body composition changes measured by dual–energy X–ray absorptiometry in patients receiving home parenteral nutrition. Tjellesen L, et al. **Scand J Gastroenterol** 1997 Jul;32(7):686–90
Age, body composition, aerobic fitness and health condition as risk factors for musculoskeletal injuries in conscripts. Heir T, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):222–7
Effects of meal frequency on body composition during weight control in boxers. Iwao S, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):265–72
Effects of body size, body density, gender and growth on underwater torque. Zamparo P, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):273–80
Body composition in pregnancy. Jaque–Fortunato SV, et al. **Semin Perinatol** 1996 Aug;20(4):340–2 (5 ref.)
Evaluation of body composition. Current issues. Heyward VH. **Sports Med** 1996 Sep;22(3):146–56 (76 ref.)
Body composition of spinal cord injured adults. Kocina P. **Sports Med** 1997 Jan;23(1):48–60 (87 ref.)
The importance of fat free mass maintenance in weight loss programmes. Marks BL, et al. **Sports Med** 1996 Nov; 22(5):273–81 (45 ref.)
Bone mass, bone turnover, body composition, and calcium homeostasis in former hyperthyroid patients treated by combined medical therapy. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):161–8

Bone mass, bone turnover, calcium homeostasis, and body composition in surgically and radioiodine-treated former hyperthyroid patients. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):169-75

[Body composition in type 1 diabetes mellitus. Bio-impedance measurements in 274 diabetic children, adolescents and young adults] Bartz J, et al. **Dtsch Med Wochenschr** 1997 Jun 20;122(25-26):815-9 (Eng. Abstr.) **(Ger)**

[Predictive value of back fat thickness for body fat content in cattle] Klawuhn D, et al. **Tierarztl Prax** 1997 Apr; 25(2):133-8 (Eng. Abstr.) **(Ger)**

[Relationship between diaphragm weight and body composition] Nishimura Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):501-5 (Eng. Abstr.) **(Jpn)**

[Analysis of body composition by dual energy X-ray absorptiometry and its relation to pulmonary function in patients with pulmonary emphysema] Yoshikawa M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Sep;34(9):953-8 (Eng. Abstr.) **(Jpn)**

[Exercise performance and body composition in patients with chronic obstructive pulmonary disease] Yoshikawa M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):518-23 (Eng. Abstr.) **(Jpn)**

[Techniques for the measurement of body composition and body fat distribution] Katsukawa F, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:282-6 (7 ref.) **(Jpn)**

[Brachial indicators of fat and muscle in schoolchildren of a rural community according to social groups (General Lavalle, Buenos Aires, Argentina)] Bolzán AG, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):281-5 (Eng. Abstr.) **(Spa)**

[Cytological changes in the vagina following therapy with conjugated estrogens in relation to body weight and adipose tissue distribution in postmenopause] Carranza-Lira S, et al. **Ginecol Obstet Mex** 1996 Sep; 64:399-401 (Eng. Abstr.) **(Spa)**

[Proximal femoral fractures: risk factors, bone mineral density, body composition and biochemical changes in and age-matched patients and controls] Vega EM, et al. **Medicina (B Aires)** 1996;56(4):353-62 (Eng. Abstr.) **(Spa)**

[Obesity and distribution of body fat. Correlation between anthropometric and tomographic data on areas at the abdominal level] Lara Fernández A, et al. **Rev Clin Esp** 1996 Jul;196(7):437-45 (41 ref.) (Eng. Abstr.) **(Spa)**

[Methods to estimate body composition in the elderly: a critical analysis] Barrera MG, et al. **Rev Med Chil** 1996 Oct;124(10):1232-9 (Eng. Abstr.) **(Spa)**

[Body fat distribution: anthropometric indicators] Yáñez M, et al. **Rev Med Chil** 1995 Dec;123(12):1520-4 (35 ref.) (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Evaluation of body composition during low-dose estrogen oral contraceptives treatment. Franchini M, et al. **Acta Eur Fertil** 1995 Mar-Apr;26(2):69-73

Body composition, atherogenic risk factors and apolipoproteins following growth hormone treatment. Hassan HM, et al. **Acta Paediatr** 1996 Aug;85(8):899-901

Comparison of fullfat soybean, sunflower seed and protected fat as fat supplements for their effect on the performance of growing-finishing bulls and carcass fatty acid composition. Eweedah N, et al. **Acta Vet Hung** 1997; 45(2):151-63

Zinc supplementation reduced morbidity, but neither zinc nor iron supplementation affected growth or body composition of Mexican preschoolers [see comments] Rosado JL, et al. **Am J Clin Nutr** 1997 Jan;65(1):13-9. Comment in: Am J Clin Nutr 1997 Jan;65(1):160-1.

Effects of physiologic growth hormone therapy on bone density and body composition in patients with adult-onset growth hormone deficiency. A randomized, placebo-controlled trial [see comments] Baum HB, et al. **Ann Intern Med** 1996 Dec 1;125(11):883-90. Comment in: Ann Intern Med 1996 Dec 1;125(11):932-4.

Growth hormone and function in elderly persons [letter; comment] Feller AG, et al. **Ann Intern Med** 1997 Apr 1; 126(7):583-4. Comment on: Ann Intern Med 1996 Apr 15;124(8):708-16.

Whole body lean mass is altered by dexamethasone treatment through reductions in protein and energy utilization in piglets. Weiler HA, et al. **Biol Neonate** 1997;71(1):53-9

The effect of phytohaemagglutinin at different dietary concentrations on the growth, body composition and plasma insulin of the rat. Bardocz S, et al. **Br J Nutr** 1996 Oct;76(4):613-26

Growth hormone versus placebo treatment for one year in growth hormone deficient adults: increase in exercise capacity and normalization of body composition. Jørgensen JO, et al. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):681-8

Insulin-like growth factor-I raises serum procollagen levels in children and adults with Laron syndrome. Klinger B, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):423-9

Six-month overnight administration of intraperitoneal amino acids does not improve lean mass. Maurer O, et al. **Clin Nephrol** 1996 May;45(5):303-9

The effects of two doses of replacement growth hormone on the biochemical, body composition and psychological profiles of growth hormone-deficient adults. Carroll PV, et al. **Eur J Endocrinol** 1997 Aug;137(2):146-53

Effects of four years' treatment with biosynthetic human growth hormone (GH) on body composition in GH-deficient hypopituitary adults. Al-Shoumer KA, et al. **Eur J Endocrinol** 1996 Nov;135(5):559-67

Manipulation of adult body composition by treatment of the neonatal rat with growth hormone and prolactin. Kadim IT, et al. **Growth Regul** 1996 Dec;6(4):201-5

Metabolic indices in relation to body composition changes during weight loss on Dexfenfluramine in obese women from two South African ethnic groups. van der Merwe MT, et al. **Int J Obes Relat Metab Disord** 1996 Aug; 20(8):768-76

The effect of oral vanadyl sulfate on body composition and performance in weight-training athletes. Fawcett JP, et al. **Int J Sport Nutr** 1996 Dec;6(4):382-90

Effect of clenbuterol on growth and body composition during food restriction in rats. Cardoso LA, et al. **J Anim Sci** 1996 Sep;74(9):2245-52

Effects of an endotoxin challenge on growth performance, carcass accretion rates, and serum hormone and metabolite concentrations in control pigs and those treated with recombinant porcine somatotropin. Evock-Clover CM, et al. **J Anim Sci** 1997 Jul;75(7):1784-90

The effect of dietary fat inclusion on growth, carcass characteristics, and chemical composition of rabbits. Fernández C, et al. **J Anim Sci** 1996 Sep;74(9):2088-94

Anabolic implant effects on steer performance, carcass traits, subprimal yields, and longissimus muscle properties. Foutz CP, et al. **J Anim Sci** 1997 May;75(5):1256-65

Supplemental chromium picolinate influences nitrogen balance, dry matter digestibility, and carcass traits in growing-finishing pigs. Kornegay ET, et al. **J Anim Sci** 1997 May;75(5):1319-23

Effects of fish meal in beef cattle diets on growth performance, carcass characteristics, and fatty acid composition of longissimus muscle. Mandell IB, et al. **J Anim Sci** 1997 Apr;75(4):910-9

Effects of Synovex-S and recombinant bovine growth hormone (Somavubove) on growth responses of steers: II. Muscle morphology and proximate composition of muscles. Ono Y, et al. **J Anim Sci** 1996 Dec;74(12):2929-34

Effect of L-carnitine and soybean oil on growth performance and body composition of early-weaned pigs. Owen KQ, et al. **J Anim Sci** 1996 Jul;74(7):1612-9

Effects of prenatal androgenization, melengestrol acetate, and Synovex-H on feedlot performance, carcass, and sensory traits of once-calved heifers. Reiling BA, et al. **J Anim Sci** 1996 Sep;74(9):2043-51

Effects of Synovex-S and recombinant bovine growth hormone (Somavubove) on growth responses of steers: I. Performance and composition of gain. Rumsey TS, et al. **J Anim Sci** 1996 Dec;74(12):2917-28

Implant program effects on performance and carcass quality of steer calves finished for 212 days. Samber JA, et al. **J Anim Sci** 1996 Jul;74(7):1470-6

The effect of reducing excess dietary amino acids on growing-finishing pig performance: an elevation of the ideal protein concept. Tuitoek K, et al. **J Anim Sci** 1997 Jun;75(6):1575-83

Effect of feeding a milk replacer to early-weaned pigs on growth, body composition, and small intestinal morphology, compared with suckled littermates. Zijlstra RT, et al. **J Anim Sci** 1996 Dec;74(12):2948-59

Testosterone replacement increases fat-free mass and muscle size in hypogonadal men. Bhasin S, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):407-13

Age-associated sarcopenia--issues in the use of testosterone as an anabolic agent in older men [editorial; comment] Bhasin S, et al. **J Clin Endocrinol Metab** 1997 Jun; 82(6):1659-60. Comment on: J Clin Endocrinol Metab 1997 Jun;82(6):1661-7.

Increase in bone density and lean body mass during testosterone administration in men with acquired hypogonadism. Katznelson L, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4358-65

Exogenous androgens influence body composition and regional body fat distribution in obese postmenopausal women--a clinical research center study. Lovejoy JC, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2198-203

Effects of recombinant growth hormone (GH) treatment on bone mineral density and body composition in adults with childhood onset growth hormone deficiency. Sartorio A, et al. **J Endocrinol Invest** 1996 Sep;19(8):524-9

Hormone replacement therapy does not augment gains in muscle strength or fat-free mass in response to weight-bearing exercise. Brown M, et al. **J Gerontol A Biol Sci Med Sci** 1997 May;52(3):B166-70

Effects of chromium picolinate on body composition. Trent LK, et al. **J Sports Med Phys Fitness** 1995 Dec;35(4):273-80

Effect of conjugated linoleic acid on body composition in mice. Park Y, et al. **Lipids** 1997 Aug;32(8):853-8

Branched chain amino acids improve body composition and nitrogen balance in a rat model of extra hepatic biliary atresia. Sokal EM, et al. **Pediatr Res** 1996 Jul;40(1):66-71

Regulation of adipsin and body composition in the monosodium glutamate (MSG)-treated mouse. Spurlock ME, et al. **Physiol Behav** 1996 Nov;60(5):1217-21

ICV beta-hydroxybutyrate: effects on food intake, body composition, and body weight in rats. Sun M, et al. **Physiol Behav** 1997 Mar;61(3):433-6

Virginiamycin and caloric density effects on live performance, blood serum metabolite concentration, and carcass composition of broilers reared in thermoneutral and cycling ambient temperatures. Belay T, et al. **Poult Sci** 1996 Nov;75(11):1383-92

Effects of dietary fatty acid pattern on melting point and composition of adipose tissues and intramuscular fat of broiler carcasses. Hrdinka C, et al. **Poult Sci** 1996 Feb; 75(2):208-15

Studies on the feeding of cupric sulfate pentahydrate and cupric citrate to broiler chickens. Pesti GM, et al. **Poult Sci** 1996 Sep;75(9):1086-91

Replacement value of betaine for DL-methionine in male broiler chicks. Schutte JB, et al. **Poult Sci** 1997 Feb; 76(2):321-5

Growth hormone research and therapy [letter; comment] Grunfield C, et al. **Science** 1997 Jan 24;275(5299):465. Comment on: Science 1996 Aug 16;273(5277):923.

[Soft tissue changes in adults with acquired growth hormone deficiency during substitution treatment. A double-blind, randomized, placebo-controlled study after a year of treatment] Hansen TB, et al. **Ugeskr Laeger** 1997 Jul 7; 159(28):4394-9 (Eng. Abstr.) **(Dan)**

GENETICS

Differences in body composition of black and white girls. Yanovski JA, et al. **Am J Clin Nutr** 1996 Dec;64(6):833-9

Genomewide search for genes influencing percent body fat in Pima Indians: suggestive linkage at chromosome 11q21-q22. Pima Diabetes Gene Group. Norman RA, et al. **Am J Hum Genet** 1997 Jan;60(1):166-73

Familial correlations in the Québec family study: cross-trait familial resemblance for body fat with plasma glucose and insulin. Rice T, et al. **Diabetologia** 1996 Nov;39(11):1357-64

Segregation analysis of fat mass and fat-free mass with age- and sex-dependent effects: the Stanislas Family Study. Lecomte E, et al. **Genet Epidemiol** 1997;14(1):51-62

Gender-specific aspects of obesity. Legato MJ. **Int J Fertil Womens Med** 1997 May-Jun;42(3):184-97 (162 ref.)

Genetic influences on central abdominal fat: a twin study. Carey DG, et al. **Int J Obes Relat Metab Disord** 1996 Aug; 20(8):722-6

Familial clustering of multiple measures of adiposity and fat distribution in the Québec Family Study: a trivariate analysis of percent body fat, body mass index, and trunk-to-extremity skinfold ratio. Rice T, et al. **Int J Obes Relat Metab Disord** 1995 Dec;19(12):902-8

Genetic (co)variances among birth weight, 200-day weight, and postweaning gain in composites and parental breeds of beef cattle. Bennett GL, et al. **J Anim Sci** 1996 Nov; 74(11):2598-611

Live animal performance, carcass traits, and meat palatability of calf- and yearling-fed cloned steers. Harris JJ, et al. **J Anim Sci** 1997 Apr;75(4):986-92

Genetic parameters for growth and carcass traits in Japanese brown cattle estimated from field records. Hirooka H, et al. **J Anim Sci** 1996 Sep;74(9):2112-6

Phenotypic characterization of Rambouillet sheep expressing the callipyge gene: II. Carcass characteristics and retail yield. Jackson SP, et al. **J Anim Sci** 1997 Jan;75(1):125-32

Phenotypic characterization of rambouillet sheep expression the callipyge gene: III. Muscle weights and muscle weight distribution. Jackson SP, et al. **J Anim Sci** 1997 Jan; 75(1):133-8

Changes in proportions of empty body depots and constituents for nine breeds of cattle under various feed availabilities. Jenkins TG, et al. **J Anim Sci** 1997 Jan; 75(1):95-104

Characterization of different biological types of steers (cycle IV): wholesale, subprimal, and retail product yields. Wheeler TL, et al. **J Anim Sci** 1997 Sep;75(9):2389-403

Independent genetic factors determine the amount and distribution of fat in women after the menopause. Samaras K, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):781-5

Genetic influences on the response of body fat and fat distribution to positive and negative energy balances in human identical twins. Bouchard C, et al. **J Nutr** 1997 May; 127(5 Suppl):943S-947S (18 ref.)

Selection for body composition does not affect energetic efficiency of jejunal glucose uptake in mice. Fan YK, et al. **J Nutr** 1996 Nov;126(11):2861-6

Abdominal visceral fat is associated with a BclI restriction fragment length polymorphism at the glucocorticoid receptor gene locus. Buemann B, et al. **Obes Res** 1997 May; 5(3):186-92

Suggestive linkages between markers on human 1p32-p22 and body fat and insulin levels in the Quebec Family Study. Chagnon YC, et al. **Obes Res** 1997 Mar;5(2):115-21

A major gene for resting metabolic rate unassociated with body composition: results from the Québec Family Study. Rice T, et al. **Obes Res** 1996 Sep;4(5):441-9

DNA polymorphisms of lipogenesis genes and analysis of linkage with fatness in turkeys. Sourdioux M, et al. **Poult Sci** 1996 Aug;75(8):1018-26

Ill fitting genes: the biology of weight and shape control in relation to body composition and eating disorders [editorial] Treasure J, et al. **Psychol Med** 1997 May; 27(3):505-8

IMMUNOLOGY

Immunological manipulation of adiposity. Flint DJ.

Biochem Soc Trans 1996 May;24(2):418–22 (19 ref.)

PHYSIOLOGY

Body composition of mice of different body condition score and sex. Fekete S, et al. **Acta Vet Hung** 1996;44(4):399–410

Influence of a deficient intake of high and low degradable protein on body composition, metabolic adaptation, production and reproductive performance in early lactation dairy cows. Fekete S, et al. **Acta Vet Hung** 1996; 44(3):309–33

Relationship of body composition and cardiovascular fitness to lipoprotein lipid profiles in master athletes and sedentary men. Yataco AR, et al. **Aging (Milano)** 1997 Feb–Apr; 9(1–2):88–94

Analysis of body water compartments in relation to tissue depletion in clinically stable patients with chronic obstructive pulmonary disease. Baarends EM, et al. **Am J Clin Nutr** 1997 Jan;65(1):88–94

Body composition of a young, multiethnic female population. Ellis KJ, et al. **Am J Clin Nutr** 1997 Mar;65(3):724–31

Visceral fat in white and African American prepubertal children [see comments] Goran MI, et al. **Am J Clin Nutr** 1997 Jun;65(6):1703–8. Comment in: Am J Clin Nutr 1997 Jun;65(6):1887–8.

Dietary fat in relation to body fat and intraabdominal adipose tissue: a cross-sectional analysis [see comments] Larson DE, et al. **Am J Clin Nutr** 1996 Nov;64(5):677–84. Comment in: Am J Clin Nutr 1996 Nov;64(5):787–8.

A single threshold value of waist girth identifies normal-weight and overweight subjects with excess visceral adipose tissue. Lemieux S, et al. **Am J Clin Nutr** 1996 Nov;64(5):685–93

Comparison of body composition and bone mineral measurements from two DXA instruments in young men. Modlesky CM, et al. **Am J Clin Nutr** 1996 Nov; 64(5):669–76

Eating disorder symptoms in former female college gymnasts: relations with body composition. O'Connor PJ, et al. **Am J Clin Nutr** 1996 Dec;64(6):840–3

Changes in body composition and fat distribution after short-term weight gain in patients with anorexia nervosa. Orphanidou CI, et al. **Am J Clin Nutr** 1997 Apr; 65(4):1034–41

Body composition assessed on the basis of arm circumference and triceps skinfold thickness: a new index validated in children by magnetic resonance imaging. Rolland-Cachera MF, et al. **Am J Clin Nutr** 1997 Jun;65(6):1709–13

Body fat distribution from subcutaneous to intraabdominal: a perspective [editorial; comment] Van Loan MD. **Am J Clin Nutr** 1996 Nov;64(5):787–8. Comment on: Am J Clin Nutr 1996 Nov;64(5):677–84.

Menarche age, fatness, and fat distribution in Hawaiian adolescents. Brown DE, et al. **Am J Phys Anthropol** 1996 Feb;99(2):239–47

Comparison of the body composition of age-matched Italian, Ukrainian, and Dutch children. De Lorenzo A, et al. **Ann Nutr Metab** 1996;40(3):123–8

Total energy expenditure and body composition in early infancy. Wells JC, et al. **Arch Dis Child** 1996 Nov; 75(5):423–6

Influence of respiratory distress syndrome on body composition after preterm birth. Tang W, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F28–31

Evaluation of the non invasive TOBEC (total body electrical conductivity) procedure for prediction of chemical components of male broilers with special consideration of dietary protein level. Dänicke S, et al. **Arch Tierernahr** 1997;50(2):137–53

Omega-3 fatty acids in pig nutrition: implications for zootechnical performances, carcass and fat quality. Van Oeckel MJ, et al. **Arch Tierernahr** 1997;50(1):31–42

Body composition of Italian children. Bellù R, et al. **Bibl Nutr Dieta** 1996;(53):103–8 (10 ref.)

Assessment of the nutritional state of dialysis patients. Kerr PG, et al. **Blood Purif** 1996;14(5):382–7 (25 ref.)

Bone mass and soft tissue composition in adolescents with anorexia nervosa. Kooh SW, et al. **Bone** 1996 Aug; 19(2):181–8

Body composition and bone mineral density of Chinese women with vertebral fracture. Lau EM, et al. **Bone** 1996 Dec;19(6):657–62

Energy intakes, anthropometry and body composition of Nigerian adolescent girls: a case study of an institutionalized secondary school in Ibadan. Cole AH, et al. **Br J Nutr** 1997 Apr;77(4):497–509

Anthropometric characteristics of healthy Italian nonagenarians and centenarians. Ravaglia G, et al. **Br J Nutr** 1997 Jan;77(1):9–17

Body composition in rheumatoid arthritis. Westhovens R, et al. **Br J Rheumatol** 1997 Apr;36(4):444–8

Carcase and meat quality in broilers either killed with a gas mixture or stunned with an electric current under commercial processing conditions. Raj AB, et al. **Br Poult Sci** 1997 May;38(2):169–74

Chemical composition of the pearl grey guinea fowl. Sales J, et al. **Br Poult Sci** 1997 May;38(2):223–4

Effect of dietary protein content on live and carcase performance of heterozygous naked neck and normally feathered broilers. Yalçin S, et al. **Br Poult Sci** 1996 Dec; 37(5):963–9

Effect of tibial dyschondroplasia on carcase part weights and bone characteristics. Yalçin S, et al. **Br Poult Sci** 1996 Dec; 37(5):923–7

Weight, body composition, and bone density in postmenopausal women. Harris SS, et al. **Calcif Tissue Int** 1996 Dec;59(6):428–32

Twenty weeks of weight training increases lean tissue mass but not bone mineral mass or density in healthy, active young women. Chilibeck PD, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1180–5

Postmenopausal bone mineral density: relationship to calcium intake, calcium absorption, residual estrogen, body composition, and physical activity. Hoover PA, et al. **Can J Physiol Pharmacol** 1996 Aug;74(8):911–7

Relationship between growth hormone (GH) status, serum leptin and body composition in healthy and GH deficient elderly subjects. Gill MS, et al. **Clin Endocrinol (Oxf)** 1997 Aug;47(2):161–7

Body composition in growth hormone deficient adults over the age of 60 years. Toogood AA, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):399–405

Weight reduction in obese patients with rheumatoid arthritis, with preservation of body cell mass and improvement of physical fitness. Engelhart M, et al. **Clin Exp Rheumatol** 1996 May–Jun;14(3):289–93

Measurement of total body water and urea kinetic modelling in peritoneal dialysis. Woodrow G, et al. **Clin Nephrol** 1997 Jan;47(1):52–7

Haematological status in elite long-distance runners: influence of body composition. Suetta C, et al. **Clin Physiol** 1996 Nov;16(6):563–74

Body composition and muscle strength in women scheduled for a knee or hip replacement. A comparative study of two groups of osteoarthritic women. Madsen OR, et al. **Clin Rheumatol** 1997 Jan;16(1):39–44

Four-component model of body composition in chronic renal failure comprising dual-energy X-ray absorptiometry and measurement of total body water by deuterium oxide dilution. Woodrow G, et al. **Clin Sci (Colch)** 1996 Dec; 91(6):763–9

Body composition and fat distribution by dual energy X-ray absorptiometry in overweight postmenopausal women. Effect of energy-restriction and exercise. Svendsen OL. **Dan Med Bull** 1996 Jun;43(3):249–62 (161 ref.)

A longitudinal study of changes in body composition and basal metabolism in physically active elderly men. Murray LA, et al. **Eur J Appl Physiol** 1996;72(3):215–8

Deficiency of the growth hormone-insulin-like growth factor-I axis potentially involved in age-related alterations in body composition. Boonen S, et al. **Gerontology** 1996; 42(6):330–8

Effect of land-based and water-based fitness programs on the cardiovascular fitness, strength and flexibility of women aged 65–75 years. Taunton JE, et al. **Gerontology** 1996; 42(4):204–10

Incremental changes in total and regional body composition of growing pigs measured by dual-energy x-ray absorptiometry. Mitchell AD, et al. **Growth Dev Aging** 1996 Summer;60(2):95–105

Comparison of different body composition models in acromegaly. Brummer RJ, et al. **Growth Regul** 1996 Dec; 6(4):191–200

The role of growth hormone in the regulation of body composition in the adult. Russell-Jones DL, et al. **Growth Regul** 1996 Dec;6(4):247–52 (42 ref.)

Energy expenditure and body composition in children with Crohn's disease: effect of enteral nutrition and treatment with prednisolone. Azcue M, et al. **Gut** 1997 Aug; 41(2):203–8

Correlation of body fat distribution with grade of endometrial cancer. Douchi T, et al. **Gynecol Oncol** 1997 Apr; 65(1):138–42

Bioimpedance analysis (BIA) in hemodialysis: technical aspects. Talluri A, et al. **Int J Artif Organs** 1995 Nov; 18(11):687–92

Adiposity and regional body fat distribution in physically active young and middle-aged women. Davy KP, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):777–83

Physical activity and body composition in 10 year old French children: linkages with nutritional intake? Deheeger M, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):372–9

Renal sinus lipomatosis and body composition in hypertensive, obese rabbits. Dwyer TM, et al. **Int J Obes Relat Metab Disord** 1995 Dec;19(12):869–74

Anthropometric equations for estimating abdominal adipose tissue distribution in women. Kekes-Szabo T, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):753–8

Familial clustering of multiple measures of adiposity and fat distribution in the Québec Family Study: a trivariate analysis of percent body fat, body mass index, and trunk-to-extremity skinfold ratio. Rice T, et al. **Int J Obes Relat Metab Disord** 1995 Dec;19(12):902–8

Skinfold and near infrared body fat measurements have sex-specific differences, but may be useful in combination with BMI for determining relative risk factors on a large scale [letter] Rothacker DQ. **Int J Obes Relat Metab Disord** 1995 Dec;19(12):929

Familial resemblance for anthropometric measurements and relative fat distribution among African Americans. Rotimi C, et al. **Int J Obes Relat Metab Disord** 1995 Dec; 19(12):875–80

Regional body fat distribution in New Zealand girls aged 4–16 years: a cross-sectional study by dual energy X-ray absorptiometry. Taylor RW, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):763–7

Differences in fat balance underlying obesity. Tremblay A. **Int J Obes Relat Metab Disord** 1995 Dec;19 Suppl 7:S10–S14; discussion S15–16 (47 ref.)

A study of the prognostic respiratory markers of sustained weight loss in obese subjects after 28 days on VLCD. Valtueña S, et al. **Int J Obes Relat Metab Disord** 1997 Apr;21(4):267–73

Investigation of the relationship between infant temperament and later body composition. Wells JC, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):400–6

Resting metabolic rate and energy intake in female gymnasts, figure-skaters and soccer players. Fogelholm GM, et al. **Int J Sports Med** 1995 Nov;16(8):551–6

Body composition and bone mineral density in competitive athletes in different sports. Fiore CE, et al. **Int J Tissue React** 1996;18(4–6):121–4

The effects of exercise intensity on body composition, weight loss, and dietary composition in women. Bryner RW, et al. **J Am Coll Nutr** 1997 Feb;16(1):68–73

Exercise vs dietary change to bring about weight loss [letter; comment] Lasslo-Meeks M. **J Am Diet Assoc** 1997 Jun; 97(6):583. Comment on: J Am Diet Assoc 1997 Jan;97(1):37–42.

The ambiguities of predicting total body water and body cell mass with a single frequency (50KHz) measurement of bioimpedance [letter] Matthie JR, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1682–5

Evaluation of electronic technology to assess lamb carcass composition. Berg EP, et al. **J Anim Sci** 1997 Sep; 75(9):2433–44

Assessment of lamb carcass composition from live animal measurement of bioelectrical impedance or ultrasonic tissue depths. Berg EP, et al. **J Anim Sci** 1996 Nov;74(11):2672–8

Use of real-time ultrasound to evaluate live animal carcass traits in young performance-tested beef bulls. Bergen RD, et al. **J Anim Sci** 1997 Sep;75(9):2300–7

Barley varieties for finishing steers: I. Feedlot performance, in vivo diet digestion, and carcass characteristics. Boss DL, et al. **J Anim Sci** 1996 Aug;74(8):1967–72

Effects of frame size and time-on-feed on carcass characteristics, sensory attributes, and fatty acid profiles of steers. Camfield PK, et al. **J Anim Sci** 1997 Jul; 75(7):1837–44

Comparison of transverse and longitudinal real-time ultrasound scans for prediction of lean cut yields and fat-free lean content in live pigs. Cisneros F, et al. **J Anim Sci** 1996 Nov;74(11):2566–76

Influence of steroid implants and concentrate feeding on performance and carcass composition of cull beef cows. Cranwell CD, et al. **J Anim Sci** 1996 Aug;74(8):1770–6

Influence of steroid implants and concentrate feeding on carcass and longissimus muscle sensory and collagen characteristics of cull beef cows. Cranwell CD, et al. **J Anim Sci** 1996 Aug;74(8):1777–83

Wheat middlings in high-concentrate diets: feedlot performance, carcass characteristics, nutrient digestibilities, passage rates, and ruminal metabolism in finishing steers. Dalke BS, et al. **J Anim Sci** 1997 Sep;75(9):2561–6

Reconstitution of body reserves in multiparous sows during pregnancy: effect of energy intake during pregnancy and mobilization during the previous lactation. Dourmad JY, et al. **J Anim Sci** 1996 Sep;74(9):2211–9

Influence of weaning age and nursery diet complexity on growth performance and carcass characteristics and composition of high-health status pigs from weaning to 109 kilograms. Dritz SS, et al. **J Anim Sci** 1996 Dec; 74(12):2975–84

Tenderness variation among loin steaks from A and C maturity carcasses of heifers similar in chronological age. Field R, et al. **J Anim Sci** 1997 Mar;75(3):693–9

Growth, carcass, and tenderness characteristics of virgin, spayed, and single-calf heifers. Field R, et al. **J Anim Sci** 1996 Sep;74(9):2178–86

Effect of body composition at selection on reproductive development in large white gilts. Gaughan JB, et al. **J Anim Sci** 1997 Jul;75(7):1764–72

Effects of twinning on dystocia, calf survival, calf growth, carcass traits, and cow productivity. Gregory KE, et al. **J Anim Sci** 1996 Jun;74(6):1223–33

Fatty acid composition of subcutaneous adipose tissue from male calves at different stages of growth. Huerta-Leidenz NO, et al. **J Anim Sci** 1996 Jun;74(6):1256–64

Phenotypic characterization of rambouillet sheep expression the callipyge gene: III. Muscle weights and muscle weight distribution. Jackson SP, et al. **J Anim Sci** 1997 Jan; 75(1):133–8

Phenotypic characterization of Rambouillet sheep expressing the callipyge gene: II. Carcass characteristics and retail yield. Jackson SP, et al. **J Anim Sci** 1997 Jan;75(1):125–32

Changes in proportions of empty body depots and constituents for nine breeds of cattle under various feed availabilities. Jenkins TG, et al. **J Anim Sci** 1997 Jan; 75(1):95–104

Predicting the yield and composition of mature cow carcasses. Johnson DD, et al. **J Anim Sci** 1997 Jul; 75(7):1831–6

Relationships of serum insulin-like growth factor II concentrations to growth, compositional, and reproductive traits of swine. Lamberson WR, et al. **J Anim Sci** 1996 Aug;74(8):1753–6

Feed intake, body weight, body condition score, musculation,

and immunocompetence in aged mares given equine somatotropin. Malinowski K, et al. **J Anim Sci** 1997 Mar; 75(3):755–60

Body composition analysis of pigs by dual–energy x–ray absorptiometry. Mitchell AD, et al. **J Anim Sci** 1996 Nov; 74(11):2663–71

Divergent selection for heat loss in mice: II. Correlated responses in feed intake, body mass, body composition, and number born through fifteen generations. Nielsen MK, et al. **J Anim Sci** 1997 Jun;75(6):1469–76

Predicting carcass composition and individual feed requirement in live cattle widely varying in body size. Perry TC, et al. **J Anim Sci** 1997 Feb;75(2):300–7

Assessing the efficiency of multiplicative mixed model equations to account for heterogeneous variance across herds in carcass scan traits from beef cattle. Reverter A, et al. **J Anim Sci** 1997 Jun;75(6):1477–85

Performance, carcass, and palatability traits for cull cows fed high–energy concentrate diets for 0, 14, 28, 42, or 56 days. Schnell TD, et al. **J Anim Sci** 1997 May; 75(5):1195–202

Effects of individual housing design and size on special–fed Holstein veal calf growth performance, hematology, and carcass characteristics. Terosky TL, et al. **J Anim Sci** 1997 Jul;75(7):1697–703

Body composition and protein and fat accretion in various body components in growing gilts fed diets with different protein levels but estimated to contain similar levels of ideal protein. Tuitoek JK, et al. **J Anim Sci** 1997 Jun; 75(6):1584–90

The influence of genotype, sex, and dietary lysine on pork subprimal cut yields and carcass quality of pigs fed to either 104 or 127 kilograms. Unruh JA, et al. **J Anim Sci** 1996 Jun;74(6):1274–83

The use of urea dilution for estimation of carcass composition of Holstein steers at 3, 6, 9, and 12 months of age. Velazco J, et al. **J Anim Sci** 1997 Jan;75(1):139–47

Biceps femoris and rump fat as additional ultrasound measurements for predicting retail product and trimmable fat in beef carcasses. Williams RE, et al. **J Anim Sci** 1997 Jan;75(1):7–13

Prediction of live lamb chemical composition utilizing electromagnetic scanning (ToBEC). Wishmeyer DL, et al. **J Anim Sci** 1996 Aug;74(8):1864–72

Segmental body composition assessed by bioelectrical impedance analysis and DEXA in humans. Bracco D, et al. **J Appl Physiol** 1996 Dec;81(6):2580–7

Body composition analysis by DEXA by using dynamically changing samarium filtration. Gotfredsen A, et al. **J Appl Physiol** 1997 Apr;82(4):1200–9

Effect of skin temperature on multifrequency bioelectrical impedance analysis. Gudivaka R, et al. **J Appl Physiol** 1996 Aug;81(2):838–45

Density of the fat–free mass and estimates of body composition in male weight trainers. Modlesky CM, et al. **J Appl Physiol** 1996 Jun;80(6):2085–96

Alterations in growth and body composition during puberty. I. Comparing multicompartment body composition models. Roemmich JN, et al. **J Appl Physiol** 1997 Sep;83(3):927–35

Whole body sweat collection in humans: an improved method with preliminary data on electrolyte content. Shirreffs SM, et al. **J Appl Physiol** 1997 Jan;82(1):336–41

Fat or lean tissue mass: which one is the major determinant of bone mineral mass in healthy postmenopausal women? Chen Z, et al. **J Bone Miner Res** 1997 Jan;12(1):144–51

Bone mineral mass consolidation in young British adults. Parsons TJ, et al. **J Bone Miner Res** 1996 Feb;11(2):264–74

Effects of stage of lactation, milk protein genotype and body condition at calving on protein composition and renneting properties of bovine milk. Ostersen S, et al. **J Dairy Res** 1997 May;64(2):207–19

Fetal growth and body composition in infants of women with diabetes mellitus during pregnancy. Kehl RJ, et al. **J Matern Fetal Med** 1996 Sep–Oct;5(5):273–80

Selection for body composition does not affect energetic efficiency of jejunal glucose uptake in mice. Fan YK, et al. **J Nutr** 1996 Nov;126(11):2861–6

Evidence of a role for fat–free body mass in modulation of plasma carotenoid concentrations in older men: studies with hydrodensitometry. Zhu YI, et al. **J Nutr** 1997 Feb; 127(2):321–6

Possible association of body–fat distribution with preeclampsia. Ijuin H, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):45–9

The female athlete. Thein LA, et al. **J Orthop Sports Phys Ther** 1996 Feb;23(2):134–48 (93 ref.)

Growth hormone and body composition. Christiansen JS. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:365–8 (24 ref.)

Nutrition, body composition, physical activity and growth hormone secretion. Vance ML. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:299–301 (22 ref.)

Effect of postural changes on the reliability of volume estimations from bioimpedance spectroscopy data. Scharfetter H, et al. **Kidney Int** 1997 Apr;51(4):1078–87

Menopause, fat and lean distribution in obese women. Panotopoulos G, et al. **Maturitas** 1996 Aug;25(1):11–9

Effects of single nightly injections of growth hormone–releasing hormone (GHRH 1–29) in healthy elderly men. Vittone J, et al. **Metabolism** 1997 Jan; 46(1):89–96

Body composition and physical performance in children after renal transplantation. Feber J, et al. **Nephron** 1997; 75(1):13–9

Anthropometrics do not influence dual X–ray absorptiometry (DXA) measurement of fat in normal to obese adults: a comparison with in vivo neutron activation analysis (IVNA). Marcus MA, et al. **Obes Res** 1997 Mar;5(2):122–30

Relationship of anterior and posterior subcutaneous abdominal fat to insulin sensitivity in nondiabetic men. Misra A, et al. **Obes Res** 1997 Mar;5(2):93–9

Body composition in children with renal disease: use of dual energy X–ray absorptiometry. Cochat P, et al. **Pediatr Nephrol** 1996 Jun;10(3):264–8

Photoperiod, sex, gonadal steroids, and housing density affect body fat in hamsters. Bartness TJ. **Physiol Behav** 1996 Aug; 60(2):517–29

Diabetes reduces growth and body composition more in male than in female rats. Cortright RN, et al. **Physiol Behav** 1996 Nov;60(5):1233–8

Daily exercise reduces fat, protein and body mass in male but not female rats. Cortright RN, et al. **Physiol Behav** 1997 Jul;62(1):105–11

The specific locus and time course of the body protein adjustments produced in rats by lesions of the lateral hypothalamus. Hirvonen MD, et al. **Physiol Behav** 1996 Sep;60(3):725–31

Current approaches to analogue instrumentation design in electrical impedance tomography. Boone KG, et al. **Physiol Meas** 1996 Nov;17(4):229–47 (47 ref.)

Composition of fuel stores and digestive limitations to fuel deposition rate in the long–distance migratory thrush nightingale, Luscinia luscinia. Klaassen M, et al. **Physiol Zool** 1997 Jan–Feb;70(1):125–33

Independent effects of hen age and egg size on incubation and poult characteristics in commercial turkeys. Applegate TJ, et al. **Poult Sci** 1996 Oct;75(10):1210–6

Estimation of the composition of broiler carcasses from their specific gravity. Pesti GM, et al. **Poult Sci** 1997 Jul; 76(7):948–51

The effects of color of lighting on the behavior and production of meat chickens. Prayitno DS, et al. **Poult Sci** 1997 Mar;76(3):452–7

Measurement of body composition changes during hemodialysis by bioimpedance analysis. Morais AA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul–Aug; 51(4):121–3

Changes in physical characteristics and body composition during 5–year follow–up in 75– and 80–year–old men and women. Suominen H. **Scand J Soc Med Suppl** 1997; 53:19–24

A longitudinal study of changes in body mass index and total body composition after radioiodine treatment for thyrotoxicosis. de la Rosa RE, et al. **Thyroid** 1997 Jun; 7(3):401–5

Changes in body composition after gastrectomy: results of a controlled, prospective clinical trial. Liedman B, et al. **World J Surg** 1997 May;21(4):416–20; discussion 420–1

[Determination of body feat in treatment of anorexia nervosa] Schmidt MH, et al. **Z Kinder Jugenpsychiatr** 1997 Mar; 25(1):27–34 (Eng. Abstr.) **(Ger)**

[Relationship between the iron status of the pregnant woman and her body size and body composition before and during pregnancy] Zimna–Walendzik E, et al. **Przegl Lek** 1997; 54(2):92–5 (Eng. Abstr.) **(Pol)**

[The selenium content of the body in experimental animals and its effect on the functional biochemical status of the liver in toxic injury] Shman'ko VV. **Fiziol Zh** 1996; 42(1–2):65–72 (Eng. Abstr.) **(Ukr)**

BODY CONSTITUTION

Pre–term delivery and subsequent ocular development. A 7–10 year follow–up of children screened 1982–84 for ROP. 4) Oculometric – and other metric considerations. Fledelius HC. **Acta Ophthalmol Scand** 1996 Jun;74(3):301–5

Iron status of children with short stature during accelerated growth due to growth hormone treatment. Vihervuori E, et al. **Acta Paediatr** 1997 Jun;86(6):588–93

Waist percentiles: a simple test for atherogenic disease? Zannolli R, et al. **Acta Paediatr** 1996 Nov;85(11):1368–9

Effect of weight loss on body fat distribution in obese children. Torigoe K, et al. **Acta Paediatr Jpn** 1997 Feb; 39(1):28–33

Echocardiographic estimates related to various body size measures in athletes. Paylik G, et al. **Acta Physiol Hung** 1996;84(2):171–81

Age and sex differences in body size and composition during rhesus monkey adulthood. Hudson JC, et al. **Aging (Milano)** 1996 Jun;8(3):197–204

Visceral fat mass in childhood: a potential early marker for increased risk of cardiovascular disease [editorial; comment] Ellis KJ. **Am J Clin Nutr** 1997 Jun;65(6):1887–8 . Comment on: Am J Clin Nutr 1997 Jun;65(6):1703–8.

A single threshold value of waist girth identifies normal–weight and overweight subjects with excess visceral adipose tissue. Lemieux S, et al. **Am J Clin Nutr** 1996 Nov;64(5):685–93

Re: "Body size and breast cancer risk among women under age 45 years" [letter; comment] Gerber M. **Am J Epidemiol** 1997 Apr 1;145(7):669–70. Comment on: Am J Epidemiol 1996 Apr 1;143(7):698–706.

Breast size in relation to endogenous hormone levels, body constitution, and oral contraceptive use in healthy nulligravid women aged 19–25 years. Jernström H, et al. **Am J Epidemiol** 1997 Apr 1;145(7):571–80

Anthropometric measurements and vertebral deformities. European Vertebral Osteoporosis Study (EVOS) Group. Johnell O, et al. **Am J Epidemiol** 1997 Aug 15;146(4):287–93

Body size and risk of breast cancer. Trentham–Dietz A, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1011–9

Total and sports activity in older men and women: relation with body fat distribution. Visser M, et al. **Am J Epidemiol** 1997 Apr 15;145(8):752–61

Ecogeographical patterning and stature prediction in fossil hominids: component on M.R. Feldesman and R.L. Fountain, American Journal of Physical Anthropology (1996) 100:207–224. Holliday TW, et al. **Am J Phys Anthropol** 1997 May;103(1):137–40

Ontogeny of body size variation in African apes. Leigh SR, et al. **Am J Phys Anthropol** 1996 Jan;99(1):43–65

Whole body bone, fat and lean mass in children: comparison of three ethnic groups. Nelson DA, et al. **Am J Phys Anthropol** 1997 Jun;103(2):157–62

Allometry and adaptation of body proportions and stature in African pygmies. Shea BT, et al. **Am J Phys Anthropol** 1996 Jul;100(3):311–40

Relative growth, ontogeny, and sexual dimorphism in gorilla (Gorilla gorilla gorilla and G. g. beringei): evolutionary and ecological considerations. Taylor AB. **Am J Primatol** 1997;43(1):1–31

Stable behaviors associated with adults' 10–year change in body mass index and likelihood of gain at the waist. Kahn HS, et al. **Am J Public Health** 1997 May;87(5):747–54

Ideal endotracheal tube placement by referencing measurements on the tube. Ong KC, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):550–2

Relative foot size and shape to general body size in Javanese, Filipinas and Japanese with special reference to habitual footwear types. Ashizawa K, et al. **Ann Hum Biol** 1997 Mar–Apr;24(2):117–29

Body size, body composition and motor performances of mild–to–moderately undernourished Senegalese children. Benefice E, et al. **Ann Hum Biol** 1996 Jul–Aug;23(4):307–21

Body composition of rural and urban children from the central region of Spain. Mesa MS, et al. **Ann Hum Biol** 1996 May–Jun;23(3):203–12

Longitudinal changes in body composition in women approaching the midlife. Sowers MF, et al. **Ann Hum Biol** 1996 May–Jun;23(3):253–65

Body weight and shape control: examining component behaviours. Conner M, et al. **Appetite** 1996 Oct; 27(2):135–50

Serum HDL cholesterol values are associated with apoB–containing lipoprotein metabolism and triglyceride–body fat interrelation in young Japanese men. Kazumi T, et al. **Atherosclerosis** 1997 Apr;130(1–2):93–100

Maternal lean body mass and birth–weight. Mongelli M. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):133–5

Ratio of waist circumference to height is better predictor of death than body mass index [letter] Cox BD, et al. **BMJ** 1996 Dec 7;313(7070):1487

Size at birth and blood pressure: cross sectional study in 8–11 year old children [see comments] Taylor SJ, et al. **BMJ** 1997 Feb 15;314(7079):475–80. Comment in: BMJ 1997 May 10;314(7091):1416.

The influence of methodological differences on the outcome of body size estimation studies in anorexia nervosa. Smeets MA, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):263–77

Tumor characteristics and survival of breast cancer patients in relation to premorbid diet and body size. Jain M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):43–55

Diurnal rhythms of the neuroendocrine system in professional riveters with different constitutional types. Gritsko N, et al. **Cent Eur J Public Health** 1995;3 Suppl:132–4

A comparative analysis of weight to height and waist to hip circumference indices as indicators of the presence of cardiovascular disease risk factors. Canadian Heart Health Surveys Research Group. Ledoux M, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S32–8

Correlation between cardiovascular disease risk factors and simple anthropometric measures. Canadian Heart Health Surveys Research Group. Ledoux M, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S46–53

Seven–year changes in body fat and visceral adipose tissue in women. Association with indexes of plasma glucose–insulin homeostasis. Lemieux S, et al. **Diabetes Care** 1996 Sep;19(9):983–91

The metabolic syndrome is related to beta 3–adrenoceptor sensitivity in visceral adipose tissue. Hoffstedt J, et al. **Diabetologia** 1996 Jul;39(7):838–44

Influences of the intrauterine metabolic environment on adult disease: what may we infer from size at birth? Purdy LP, et al. **Diabetologia** 1996 Sep;39(9):1126–30 (46 ref.)

Childhood size is more strongly related than size at birth to glucose and insulin levels in 10–11–year–old children. Whincup PH, et al. **Diabetologia** 1997 Mar;40(3):319–26

Obesity and 33–year follow–up for coronary heart disease and cancer mortality [see comments] Carmelli D, et al. **Epidemiology** 1997 Jul;8(4):378–83. Comment in: Epidemiology 1997 Jul;8(4):344–6.

Body habitus and coronary heart disease in men. A review with reference to methods of body habitus assessment. Williams SR, et al. **Eur Heart J** 1997 Mar;18(3):376–93 (114 ref.)

Breast size and breast cancer risk. Tavani A, et al. **Eur J Cancer Prev** 1996 Oct;5(5):337–42

Floating–Harbor syndrome. A neuropsychological approach. Davalos IP, et al. **Genet Couns** 1996;7(4):283–8

Estradiol and progesterone endometrial receptors and body fat distribution in obese women. Morán C, et al. **Gynecol Obstet Invest** 1996;42(2):117–9

Body-size indicators and risk of breast cancer according to menopause and estrogen-receptor status. Männistö S, et al. **Int J Cancer** 1996 Sep 27;68(1):8–13

Sex differences in the relationship of body fat distribution with psychosocial variables. Hoffman JM, et al. **Int J Eat Disord** 1997 Sep;22(2):139–45

Ideal body size beliefs and weight concerns of fourth–grade children. Thompson SH, et al. **Int J Eat Disord** 1997 Apr; 21(3):279–84

Prolonged breastfeeding and malnutrition [letter] Simondon KB, et al. **Int J Epidemiol** 1997 Jun;26(3):677–9

Development and tracking of central patterns of subcutaneous fat in adolescence and adulthood: the Amsterdam Growth and Health Study. van Lenthe FJ, et al. **Int J Epidemiol** 1996 Dec;25(6):1162–71

New age–adjusted measure of body fat distribution in children and adolescents: standardization of waist–hip ratio using multivariate analysis. Asayama K, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):594–9

Dieting, weight and health in adolescents in The Netherlands. Brugman E, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):54–60

Does area of residence affect body size and shape? Ellaway A, et al. **Int J Obes Relat Metab Disord** 1997 Apr; 21(4):304–8

The influences of height and age on waist circumference as an index of adiposity in adults. Han TS, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):83–9

Impact of waist–hip–ratio and body–mass–index on hormonal and metabolic parameters in young, obese women. Hollmann M, et al. **Int J Obes Relat Metab Disord** 1997 Jun;21(6):476–83

Associations of adiposity with prevalent coronary heart disease among elderly men: the Honolulu Heart Program. Huang B, et al. **Int J Obes Relat Metab Disord** 1997 May; 21(5):340–8

Coronary atherosclerosis and myocardial hypertrophy in relation to body fat distribution in healthy women: an autopsy study on 33 violent deaths. Kortelainen ML, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):43–9

Associations between body morphology and microalbuminuria in healthy middle–aged European, Maori and Pacific Island New Zealanders. Metcalf PA, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):203–10

Recall of body weight and body size estimation in women enrolled in the breast cancer detection and demonstration project (BCDDP). Muñoz KA, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):854–9

Physical activity and obesity: problems in correcting expenditure for body size. Prentice AM, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):688–91 (18 ref.)

Effects of body fat distribution on body size estimation accuracy among obese women. Rhodes SK, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):250–3

Validation study of self–reported measures of fat distribution. Weaver TW, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):644–50

Intra–abdominal adipose tissue cut–points related to elevated cardiovascular risk in women. Williams MJ, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):613–7

Reproducibility of anthropometric and body composition measurements: the HERITAGE Family Study. Wilmore JH, et al. **Int J Obes Relat Metab Disord** 1997 Apr; 21(4):297–303

Body fat distribution before and after weight gain in anorexia nervosa. Zamboni M, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):33–6

Parasite body size distributions: interpreting patterns of skewness. Poulin R, et al. **Int J Parasitol** 1997 Aug; 27(8):959–64

Dosimetric comparison of treatment planning systems in irradiation of breast with tangential fields. Cheng CW, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):835–42

Body dissatisfaction and drive for thinness in high performance field hockey athletes. Marshall JD, et al. **Int J Sports Med** 1996 Oct;17(7):541–4

Determinants of morphologic cardiac adaptation in elite athletes: the role of athletic training and constitutional factors. Pelliccia A. **Int J Sports Med** 1996 Nov;17 Suppl 3:S157–63 (85 ref.)

Vocal tract length and formant frequency dispersion correlate with body size in rhesus macaques. Fitch WT. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1213–22

Effect of diet and moderate exercise on central obesity and associated disturbances, myocardial infarction and mortality in patients with and without coronary artery disease. Singh RB, et al. **J Am Coll Nutr** 1996 Dec; 15(6):592–601

Accuracy of self–measurement of waist and hip circumference in men and women. Roberts CA, et al. **J Am Diet Assoc** 1997 May;97(5):534–6

Nevill's explanation of Kleiber's 0.75 mass exponent: an artifact of collinearity problems in least squares models? Batterham AM, et al. **J Appl Physiol** 1997 Feb;82(2):693–7

Invited editorial on "Airway thermal volume in humans and its relation to body size" [editorial] McFadden ER Jr. **J Appl Physiol** 1997 Aug;83(2):331–2 (18 ref.)

Airway thermal volume in humans and its relation to body size. Serikov VB, et al. **J Appl Physiol** 1997 Aug; 83(2):668–76

Experience with primary exeter total hip arthroplasty in patients with small femurs. Review at average follow–up period of 6 years. Chiu KH, et al. **J Arthroplasty** 1997 Apr;12(3):267–72

Effect of postmenopausal hormone therapy on body weight and waist and hip girths. Postmenopausal Estrogen–Progestin Interventions Study Investigators. Espeland MA, et al. **J Clin Endocrinol Metab** 1997 May; 82(5):1549–56

Improved ECG models for left ventricular mass adjusted for body size, with specific algorithms for normal conduction, bundle branch blocks, and old myocardial infarction. Rautaharju PM, et al. **J Electrocardiol** 1996;29 Suppl:261–9

Use of mid–arm and chest circumferences to predict birth weight in rural north India. Kapoor SK, et al. **J Epidemiol Community Health** 1996 Dec;50(6):683–6

Body mass index, waist circumference, waist–hip ratio, and glucose intolerance in Chinese and Europid adults in Newcastle, UK. Unwin N, et al. **J Epidemiol Community Health** 1997 Apr;51(2):160–6

Transgenic mice overexpressing urokinase–type plasminogen activator in the brain exhibit reduced food consumption, body weight and size, and increased longevity. Miskin R, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):B118–24

Body mass in comparative primatology. Smith RJ, et al. **J Hum Evol** 1997 Jun;32(6):523–59

Influence of menopause on blood cholesterol levels in women: the role of body composition, fat distribution and hormonal milieu. Virgilio Menopause Health Group. Pasquali R, et al. **J Intern Med** 1997 Mar;241(3):195–203

Leisure–time physical activity, body size, and colon cancer in women. Nurses' Health Study Research Group. Martínez ME, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):948–55

Measurement of body fat and fat distribution. Keller C, et al. **J Nurs Meas** 1995 Winter;3(2):159–74 (47 ref.)

Abdominal circumference contributes to absence of wasting in Brazilian children. César JA, et al. **J Nutr** 1996 Nov; 126(11):2752–6

Possible association of body–fat distribution with preeclampsia. Ijuin H, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):45–9

Intra– and interexaminer reliability of anthropometric measurements of term infants. Johnson TS, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):497–505

Body proportionality in growth–retarded VLBW infants. Largo RH, et al. **J Perinat Med** 1997;25(1):17–25

Development of a sociocultural measure of young women's experiences with body weight and shape. Delaney ME, et al. **J Pers Assess** 1997 Aug;69(1):63–80

Black and white adolescent females' perceptions of ideal body size. Parnell K, et al. **J Sch Health** 1996 Mar;66(3):112–8

An association between spin–lattice relaxation time and organ weight in humans. Akber SF. **Med Hypotheses** 1997 Feb; 48(2):189–91

Physique as a risk factor for ulnar variance in elite female gymnasts. Claessens A L, et al. **Med Sci Sports Exerc** 1996 May;28(5):560–9

Normalizing strength for body size differences in older adults. Davies MJ, et al. **Med Sci Sports Exerc** 1997 May; 29(5):713–7

The relationship between female body size and survival rate of the malaria vector Anopheles arabiensis in Ethiopia. Ameneshewa B, et al. **Med Vet Entomol** 1996 Apr; 10(2):170–2

The effects of selection for size in cattle on horn fly population density. Steelman CD, et al. **Med Vet Entomol** 1996 Apr;10(2):129–36

Computed axial tomographic scan measurement of abdominal fat distribution and its correlation with anthropometry and insulin secretion in healthy Asian Indians. Snehalatha C, et al. **Metabolism** 1997 Oct;46(10):1220–4

Relationship between resting metabolic rate and the composition of the fat–free mass. Sparti A, et al. **Metabolism** 1997 Oct;46(10):1225–30

Close correlation between visceral fat accumulation and uric acid metabolism in healthy men. Takahashi S, et al. **Metabolism** 1997 Oct;46(10):1162–5

Validity of percent body fat predicted from circumferences: classification of men for weight control regulations [see comments] Friedl KE, et al. **Mil Med** 1997 Mar; 162(3):194–200. Comment in: Mil Med 1997 Jun;162(6):ii.

Simplified percent body fat predictor [letter; comment] Wilson LW. **Mil Med** 1997 Jun;162(6):ii. Comment on: Mil Med 1997 Mar;162(3):194–200.

Palaeoanthropology. They might be giants [news; comment] Kappelman J. **Nature** 1997 May 8;387(6629):126–7. Comment on: Nature 1997 May 8;387(6629):173–6.

Body mass and encephalization in Pleistocene Homo [see comments] Ruff CB, et al. **Nature** 1997 May 8; 387(6629):173–6. Comment in: Nature 1997 May 8;387(6629):126–7.

Dependency of standardized uptake values of fluorine–18 fluorodeoxyglucose on body size: comparison of body surface area correction and lean body mass correction. Kim CK, et al. **Nucl Med Commun** 1996 Oct;17(10):890–4

Education, health behaviors, and the black–white difference in waist–to–hip ratio. Croft JB, et al. **Obes Res** 1996 Nov; 4(6):505–12

Waist circumference as a screening tool for cardiovascular risk factors: evaluation of receiver operating characteristics (ROC). Han TS, et al. **Obes Res** 1996 Nov;4(6):533–47

Birth weight and its relationship to size attained and relative fat distribution at 7 to 12 years of age. Malina RM, et al. **Obes Res** 1996 Jul;4(4):385–90

Comparison of attitudes and behaviors related to nutrition, body size, dieting, and hunger in Russian, black–American, and white–American adolescents. Stevens J, et al. **Obes Res** 1997 May;5(3):227–36

Waist circumference as the best predictor of noninsulin dependent diabetes mellitus (NIDDM) compared to body mass index, waist/hip ratio and other anthropometric measurements in Mexican Americans—a 7–year prospective study. Wei M, et al. **Obes Res** 1997 Jan; 5(1):16–23

Effect of regain of body weight on regional body fat distribution: comparison between pre– and postmenopausal obese women. Zamboni M, et al. **Obes Res** 1996 Nov; 4(6):555–60

Correlations of body composition and body–image assessments of adolescents. Byrne NM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1330

Eating disorder and body image. Duva D, et al. **Percept Mot Skills** 1997 Aug;85(1):58

Perception of body size and body satisfaction in recovered anorexic women: comparison with restrained and unrestrained eaters. Lautenbacher S, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1331–42

Why Barbie is perceived as beautiful. Magro AM. **Percept Mot Skills** 1997 Aug;85(1):363–74

Neither size nor weight predicts survival in peritoneal dialysis patients. Fried L, et al. **Perit Dial Int** 1996 Jul–Aug; 16(4):357–61

The effects of body size and orientation on ultraviolet radiation exposure. Parisi AV, et al. **Photodermatol Photoimmunol Photomed** 1996 Apr; 12(2):66–72

Effects of body size, body density, gender and growth on underwater torque. Zamparo P, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):273–80

Size variation in Middle Pleistocene humans. Arsuaga JL, et al. **Science** 1997 Aug 22;277(5329):1086–8

Bone sizes trace the decline of man (and woman) [news] Gibbons A. **Science** 1997 May 9;276(5314):896–7

Metabolic rates [letter; comment] Peterson CC. **Science** 1997 Jun 13;276(5319):1633. Comment on: Science 1997 Apr 4;276(5309):34.

A general model for the origin of allometric scaling laws in biology [see comments] West GB, et al. **Science** 1997 Apr 4;276(5309):122–6. Comment in: Science 1997 Apr 4;276(5309):34.

Fractal geometry gets the measure of life's scales [news; comment] [see comments] Williams N. **Science** 1997 Apr 4;276(5309):34. Comment on: Science 1997 Apr 4;276(5309):122–6. Comment in: Science 1997 Jun 13;276(5319):1633.

Body size mismatch between donor and recipient and the development of chronic rejection in renal transplantation. Lee LS, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):111

Body condition score, health, yield and fertility in diary cows. Markusfeld O, et al. **Vet Rec** 1997 Jul 19;141(3):67–72

A longitudinal study of biological changes with age among the Brahmins of Calcutta. Gangopadhyay S, et al. **Z Morphol Anthropol** 1996 Sep;81(2):157–66

Serum levels of sex hormones, thyroid hormones, growth hormone, IGF I, and cortisol and their relations to body fat distribution in healthy women dependent on their menopausal status. Kirchengast S, et al. **Z Morphol Anthropol** 1996 Sep;81(2):223–34

Anthropometric affinities among the 20 endogamous groups of Dhangars of Maharashtra, India. Malhotra KC, et al. **Z Morphol Anthropol** 1995 Dec;81(1):79–90

[Growth and thalassemia] De Sanctis V, et al. **Minerva Pediatr** 1997 Apr;49(4):121–8 **(Ita)**

[Height percentiles of children at 6 to 11 years of age in the area of Lazio] Schwarzenberg TL, et al. **Minerva Pediatr** 1997 Apr;49(4):129–37 (Eng. Abstr.) **(Ita)**

[The relation of alcohol intake to constitutional and biochemical variables in Japanese populations] Kitamura A, et al. **Nippon Koshu Eisei Zasshi** 1996 Feb;43(2):86–101 (Eng. Abstr.) **(Jpn)**

[Somatotypes and the paradigm of individual constitutions. The development of the theory of human constitutions in Russia in the 2nd half of the 20th century] Kliorin AI. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):151–65 (50 ref.) **(Rus)**

[The significance of physical activity and anthropometric parameters for the development of breast cancer] Kocić B, et al. **Vojnosanit Pregl** 1996 Jul–Aug;53(4):301–4 (Eng. Abstr.) **(Scr)**

ETHNOLOGY

Body size of New Zealand Pacific Islands children and teenagers. Salesa JS, et al. **N Z Med J** 1997 Jun 27; 110(1046):227–9

BODY CONSTITUTION

GENETICS

Genetics of adult body mass and maintenance of adult body mass in captive baboons (Papio hamadryas subspecies). Jaquish CE, et al. **Am J Primatol** 1997;42(4):281–8

Obesity genes. Beales PL, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):373–8 (50 ref.)

Beta 3-adrenergic receptor gene polymorphisms and determination of adiposity and fat distribution in normal female twins [letter] Keen RW, et al. **Diabetologia** 1997 Jan;40(1):122–3

Beta 3–adrenergic–receptor polymorphism: a genetic marker for visceral fat obesity and the insulin resistance syndrome. Sakane N, et al. **Diabetologia** 1997 Feb;40(2):200–4

Human variation in body mass: evidence for a role of the genes. Bouchard C. **Nutr Rev** 1997 Jan;55(1 Pt 2):S21–7; discussion S27–30 (57 ref.)

Ill fitting genes: the biology of weight and shape control in relation to body composition and eating disorders [editorial] Treasure J, et al. **Psychol Med** 1997 May; 27(3):505–8

[The constitutional and genetic characteristics of patients with the sick sinus syndrome] Nikulina SIu, et al. **Ter Arkh** 1997;69(4):34–7 **(Rus)**

PHYSIOLOGY

Comparison of measured sleeping metabolic rate and predicted basal metabolic rate in the first year of life. Wells JC, et al. **Acta Paediatr** 1996 Sep;85(9):1013–8

Weight–length relationships and reproduction of bream (Abramis brama L.) in Keszthely Bay of Lake Balaton. Sharaf SM, et al. **Acta Vet Hung** 1997;45(2):197–206

Intraocular pressure variation associated with body length in young American alligators (Alligator mississippiensis). Whittaker CJ, et al. **Am J Vet Res** 1995 Oct;56(10):1380–3

Body size and subcutaneous fat patterning in adolescence. Matthes JW, et al. **Arch Dis Child** 1996 Dec;75(6):521–3

Stability of human proportions through adolescent growth. Ackland TR, et al. **Aust J Sci Med Sport** 1996 Jun; 28(2):57–60

Mechanisms of loss of lean body mass in patients on chronic dialysis. Dinarello CA, et al. **Blood Purif** 1996;14(5):388–94 (27 ref.)

High bone mass and altered relationships between bone mass, muscle strength, and body constitution in adolescent boys on a high level of physical activity. Nordström P, et al. **Bone** 1996 Aug;19(2):189–95

Does bigger mean better? Evolutionary determinants of brain size and structure. Aboitiz F. **Brain Behav Evol** 1996; 47(5):225–45 (144 ref.)

Cardiovascular measurements in animals in the milligram range. Burggren W, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1291–305

Metabolic consequences of obesity and body fat pattern: lessons from migrant studies. McKeigue PM. **Ciba Found Symp** 1996;201:54–64; discussion 64–7, 188–93 (59 ref.)

Factors influencing height and weight development in children with diabetes. Results of the Berlin Retinopathy Study. Danne T, et al. **Diabetes Care** 1997 Mar;20(3):281–5

Anthropometrical antecedents of non–insulin dependent diabetes mellitus: an age and sex matched comparison study of anthropometric indices in schoolchildren from a high prevalence Port Moresby community. Amini J, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):75–80

The influence of body size, smoking, and diet on bone density in pre– and postmenopausal women. Franceschi S, et al. **Epidemiology** 1996 Jul;7(4):411–4

Correlation of body fat distribution with grade of endometrial cancer. Douchi T, et al. **Gynecol Oncol** 1997 Apr; 65(1):138–42

Waist circumference as a screening measurement for overweight or centrally obese Chinese. Ko GT, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):791–2

Cognitive effects of a long–term weight reducing diet. Kretsch MJ, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):14–21

VLCD versus LCD in long–term treatment of obesity. Rössner S, et al. **Int J Obes Relat Metab Disord** 1997 Jan; 21(1):22–6

Physiological correlates of 3–kilometer running performance in male children. Mahon AD, et al. **Int J Sports Med** 1996 Nov;17(8):580–4

Waist/height ratio as a simple and useful predictor of coronary heart disease risk factors in women. Hsieh SD, et al. **Intern Med** 1995 Dec;34(12):1147–52

Recipient body size and cadaveric renal allograft survival. Feldman HI, et al. **J Am Soc Nephrol** 1996 Jan;7(1):151–7

Effects of frame size and time–on–feed on carcass characteristics, sensory attributes, and fatty acid profiles of steers. Camfield PK, et al. **J Anim Sci** 1997 Jul; 75(7):1837–44

Optimum body size of Holstein replacement heifers. Hoffman PC. **J Anim Sci** 1997 Mar;75(3):836–45 (61 ref.)

Evaluation of growth curves of Brahman cattle of various frame sizes. Menchaca MA, et al. **J Anim Sci** 1996 Sep; 74(9):2140–51

Predicting carcass composition and individual feed requirement in live cattle widely varying in body size. Perry TC, et al. **J Anim Sci** 1997 Feb;75(2):300–7

Changes in segment mass and mass distribution during pregnancy. Jensen RK, et al. **J Biomech** 1996 Feb; 29(2):251–6

Is an increased waist : hip ratio the cause of alcohol–induced hypertension? The AIR94 study. Suter PM, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1857–62

Interrelationships between weight loss, body fat distribution and sex hormones in pre– and postmenopausal obese women. Turcato E, et al. **J Intern Med** 1997 May; 241(5):363–72

Size–dependent morphology of the conductive bronchial tree in four species of myomorph rodents. Valerius KP. **J Morphol** 1996 Dec;230(3):291–7

Nutritional status of centenarians assessed by activity and anthropometric, hematological and biochemical characteristics. Chan YC, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):73–81

Urinary oxalate excretion increases with body size and decreases with increasing dietary calcium intake among healthy adults [published erratum appears in Kidney Int 1996 Jul;50(1):341] Lemann J Jr, et al. **Kidney Int** 1996 Jan;49(1):200–8

Ratio scaling of VO2max penalizes women with larger percent body fat, not lean body mass. Vanderburgh PM, et al. **Med Sci Sports Exerc** 1996 Sep;28(9):1204–8

Scaling peak VO2 for differences in body size. Welsman JR, et al. **Med Sci Sports Exerc** 1996 Feb;28(2):259–65

Evolutionary ecology. The right size for a mammal [news] Purvis A, et al. **Nature** 1997 Mar 27;386(6623):332–3

Effects of sex and age on the ossification of the collateral cartilages of the distal phalanx of the Finnhorse and the relationships between ossification and body size and type of horse. Ruohoniemi M, et al. **Res Vet Sci** 1997 Jan–Feb; 62(1):34–8

BODY FLUID COMPARTMENTS

Fluid compartments in hemorrhaged rats after hyperosmotic crystalloid and hyperoncotic colloid resuscitation. Moon PF, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F1–8

Estimates of the chromium(VI) reducing capacity in human body compartments as a mechanism for attenuating its potential toxicity and carcinogenicity. De Flora S, et al. **Carcinogenesis** 1997 Mar;18(3):531–7

Organ damage is preceded by changes in protein extravasation in an experimental model of multiple organ dysfunction syndrome. Nieuwenhuijzen GA, et al. **Shock** 1997 Feb;7(2):98–104

PHYSIOLOGY

A systematic histochemical investigation in mammals of the dense glycocalyx glycosylations common to all cells bordering the interstitial fluid compartment of the brain. Debbage PL. **Acta Histochem** 1996 Jan;98(1):9–28

Mesh updating in fluid–structure interactions in biomechanics: an iterative method based on an uncoupled approach. Dubini G, et al. **Ann Biomed Eng** 1997 Jan–Feb; 25(1):218–31

Noncompartmental models of whole–body clearance of tracers: a review. Norwich KH. **Ann Biomed Eng** 1997 May–Jun;25(3):421–39 (72 ref.)

A model of fluid, erythrocyte, and solute transport in the lung. Roselli RJ, et al. **Ann Biomed Eng** 1997 Jan–Feb; 25(1):46–61

Modelling the volume of expandable body fluid spaces during i.v. fluid therapy. Ståhle L, et al. **Br J Anaesth** 1997 Feb; 78(2):138–43

A comparison of three fluid replacement strategies for maintaining euhydration during prolonged exercise. Schroeder JM, et al. **Can J Appl Physiol** 1997 Feb; 22(1):48–57

Effect of skin temperature on multifrequency bioelectrical impedance analysis. Gudivaka R, et al. **J Appl Physiol** 1996 Aug;81(2):838–45

Regulation of body fluid compartments during short–term spaceflight. Leach CS, et al. **J Appl Physiol** 1996 Jul; 81(1):105–16

Is the nucleus pulposus a solid or a fluid? Mechanical behaviors of the nucleus pulposus of the human intervertebral disc. Iatridis JC, et al. **Spine** 1996 May 15; 21(10):1174–84 (68 ref.)

[Transvascular fluid exchange disturbed by capillary injuries] Lugrin D, et al. **Ann Fr Anesth Reanim** 1996;15(4):436–46 (Eng. Abstr.) **(Fre)**

[Clinical practice interpretation of oncotic pressure, serum albumin and protein determination and their ability for guiding therapeutics in cases of disturbances of capillary exchanges] Van der Linden P. **Ann Fr Anesth Reanim** 1996; 15(4):456–63 (Eng. Abstr.) **(Fre)**

BODY FLUIDS

see related
DEHYDRATION
FLUID SHIFTS
RADIOISOTOPE DILUTION TECHNIQUE

Effect of time of day and duration into shift on hazardous exposures to biological fluids [see comments] Macias DJ, et al. **Acad Emerg Med** 1996 Jun;3(6):605–10. Comment in: Acad Emerg Med 1996 Jun;3(6):566–7.

The role of invasive sonography in the differential diagnosis and treatment of intraabdominal fluid collections. Regöly–Mérei J, et al. **Acta Chir Hung** 1995–96; 35(3–4):185–99

Subretinal fluid associated with membranoproliferative glomerulonephritis type 2 [letter] Polk TD, et al. **Arch Ophthalmol** 1997 Jul;115(7):927–8

Reduced resuscitation fluid volume for second–degree burns with delayed initiation of ascorbic acid therapy. Tanaka H, et al. **Arch Surg** 1997 Feb;132(2):158–61

Laboratory predictors of fluid deficit in acutely dehydrated children [see comments] Teach SJ, et al. **Clin Pediatr (Phila)** 1997 Jul;36(7):395–400. Comment in: Clin Pediatr (Phila) 1997 Jul;36(7):401–2.

Uterine cavity fluid collections in postmenopausal women: an unsettled issue [letter] Van den Bosch T, et al. **Int J Gynaecol Obstet** 1996 Feb;52(2):181–2

Effects of altered body fluid balance and high blood pressure on the plasma brain natriuretic peptide in rats. Kim SW, et al. **J Korean Med Sci** 1997 Apr;12(2):117–22

Influence of bovine ampullary and isthmic oviductal fluid on sperm–egg binding and fertilization in vitro. Way AL, et al. **J Reprod Fertil** 1997 Jan;109(1):95–101

Influence of ionic shifts during dialysis on volume estimations with multifrequency impedance analysis. Scharfetter H, et al. **Med Biol Eng Comput** 1997 Mar;35(2):96–102

Modified needle drainage of subretinal fluid for conventional scleral buckling procedures. Azad RV, et al. **Ophthalmic Surg Lasers** 1997 Feb;28(2):165–7

Subarachnoid fluid of the optic nerve in normal adults. Lam BL, et al. **Ophthalmology** 1997 Oct;104(10):1629–33

A scanning electron microscope study of the structural component of the bovine vaginal fluid at oestrus. Rutllant J, et al. **Zentralbl Veterinarmed A** 1997 Jun;44(4):237–41

[Autogenic rhythms and self–organization of biological fluids] Shabalin VN, et al. **Biull Eksp Biol Med** 1996 Oct; 122(10):364–71 (13 ref.) **(Rus)**

[The incidence and distribution of accidents with biological fluids among health personnel and the general population] Imaz Iglesia I, et al. **Gac Sanit** 1996 Nov–Dec;10(57):274–81 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Bedside diagnostic testing of body fluids. Peredy TR, et al. **Am J Emerg Med** 1997 Jul;15(4):400–7 (81 ref.)

An analytical perspective of NMR spectroscopy of biological fluids and cells. Reglinski J, et al. **Ann Clin Biochem** 1996 Jul;33 (Pt 4):290–307

Haptoglobin concentration in serum and other body fluids measured by comparison of its reactivity with hemoglobin and concanavalin A. Kątnik I, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):45–50

Purification, characterization and activities of two hemolytic and antibacterial proteins from coelomic fluid of the annelid Eisenia fetida andrei. Milochau A, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):123–32

Characterization of calcium phosphates precipitated from simulated body fluid of different buffering capacities. Li J, et al. **Biomaterials** 1997 May;18(10):743–7

Formation and characteristics of the apatite layer on plasma–sprayed hydroxyapatite coatings in simulated body fluid. Weng J, et al. **Biomaterials** 1997 Aug;18(15):1027–35

Sequential ELISA for cytokine levels in limited volumes of biological fluids. Steffen MJ, et al. **Biotechniques** 1996 Sep; 21(3):504–9

Prostate–specific antigen levels in nipple aspirate fluid correlate with breast cancer risk. Sauter ER, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):967–70

New method for the resolution of the enantiomers of 5,6–dihydroxy–2–methyl–aminotetralin by selective derivatization and HPLC analysis: application to biological fluids [published erratum appears in Chirality 1997;9(1):89] Rondelli I, et al. **Chirality** 1996;8(5):381–9

Amino acid determination in biological fluids by automated ion–exchange chromatography: performance of Hitachi L–8500A. Le Boucher J, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1421–8

Simple spectrofluorometric determination of p–aminobenzoic and p–aminosalicylic acids in biological fluids by use of terbium–sensitized luminescence. Lianidou ES, et al. **Clin Chem** 1996 Oct;42(10):1659–65

Two–dimensional gel electrophoresis detects prostate–specific antigen–alpha1–antichymotrypsin complex in serum but not in prostatic fluid. Qian Y, et al. **Clin Chem** 1997 Feb;43(2):352–9

Shortcomings of an automated assay for total antioxidant status in biological fluids [see comments] Schofield D, et al. **Clin Chem** 1996 Oct;42(10):1712–4. Comment in: Clin Chem 1997 May;43(5):852–4.

Inhibin assays of ovarian cyst liquid obtained by needle aspiration may allow differential diagnosis between functional and organic cysts. Binelli C, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun;73(2):161–5

Elevated cytokine levels in tracheobronchial aspirate fluids from ventilator treated neonates with bronchopulmonary dysplasia. Tullus K, et al. **Eur J Pediatr** 1996 Feb; 155(2):112–6

Gas chromatographic examination of postmortem specimens after maprotiline intoxication. Keller T, et al. **Forensic Sci Int** 1997 Aug 4;88(2):117–23

Instantaneous analysis of aldehydes in biological fluids using a spray interface coupled to a mass spectrometer. St–Germain F, et al. **Free Radic Biol Med** 1997;23(1):166–72

Low levels of human decidua–associated protein 200 in uterine fluid reflect pathological conditions of the endometrium. Halperin R, et al. **Gynecol Obstet Invest**

1997;43(3):178–82

Inhibin in extra-embryonic coelomic and amniotic fluids and maternal serum in early pregnancy. Riley SC, et al. **Hum Reprod** 1996 Dec;11(12):2772–6

Preanalytical factors and the measurement of cytokines in human subjects. Dugué B, et al. **Int J Clin Lab Res** 1996; 26(2):99–105 (92 ref.)

Concentration of metals, ceruloplasmin, metallothionein and the activity of N-acetyl-beta-D-glucosaminidase and gamma-glutamyltransferase in pregnant women who smoke and in those environmentally exposed to tobacco smoke and in their infants. Part I. Milnerowicz H, et al. **Int J Occup Med Environ Health** 1997;10(2):187–202

Apoprotein B in subretinal fluid. Huerva V, et al. **Int Ophthalmol** 1996–97;20(4):181–5

Evaluation of cyst fluid analysis in the diagnosis of pancreatic cysts. Sperti C, et al. **Ital J Gastroenterol** 1995 Dec; 27(9):479–83

Determination of phenylisothiocyanate derivatives of amphetamine and its analogues in biological fluids by HPLC-APCI-MS or DAD. Bogusz MJ, et al. **J Anal Toxicol** 1997 Jan–Feb;21(1):59–69

Colchicine poisoning: report of a fatal case and presentation of an HPLC procedure for body fluid and tissue analyses. Kintz P, et al. **J Anal Toxicol** 1997 Jan–Feb;21(1):70–2

Apatite formation on silica gel in simulated body fluid: its dependence on structures of silica gels prepared in different media. Cho SB, et al. **J Biomed Mater Res** 1996 Fall; 33(3):145–51

Semi-micro solid-phase extraction of organic compounds from aqueous and biological samples. Mayer DL, et al. **J Chromatogr A** 1997 Jun 27;773(1–2):189–97

Ion chromatographic characterization of toxic solutions: analysis and ion chemistry of biological liquids. Singh RP, et al. **J Chromatogr A** 1997 Jul 11;774(1–2):21–35 (83 ref.)

Development of a chromatographic method for the isolation and detection of hygromycin B in biological fluids. Campbell NF, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):367–74

Determination of melarsoprol in biological fluids by high-performance liquid chromatography and characterisation of two stereoisomers by nuclear magnetic resonance spectroscopy. Ericsson O, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1–2):243–51

Sensitive fused-silica capillary gas chromatographic assay using electron-capture detection for indomethacin in ovine fetal fluids. Krishna R, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):65–75

Determination of fetal bile acids in biological fluids from neonates by gas chromatography-negative ion chemical ionization mass spectrometry. Murai T, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):13–22

Use of reduced sorbent bed and disk membrane solid-phase extraction for the analysis of pharmaceutical compounds in biological fluids, with applications in the 96-well format. Plumb RS, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):123–33

Ion chromatographic study of sodium, potassium and ammonium in human body fluids with bulk acoustic wave detection. Yu BS, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):43–9

Rapid screening of multiple forensic stains by SSCP analysis of HLA-DQ alpha amplification products. Kreike J, et al. **J Forensic Sci** 1997 Jul;42(4):715–7

Tungsten determination in biological fluids, hair and nails by plasma emission spectrometry in a case of severe acute intoxication in man. Marquet P, et al. **J Forensic Sci** 1997 May;42(3):527–30

Distribution of free and conjugated morphine in body fluids and tissues in a fatal heroin overdose: is conjugated morphine stable in postmortem specimens? Moriya F, et al. **J Forensic Sci** 1997 Jul;42(4):736–40

HPLC/MS determination of buprenorphine and norbuprenorphine in biological fluids and hair samples. Tracqui A, et al. **J Forensic Sci** 1997 Jan;42(1):111–4

Analysis of bile acids in colon residual liquid or fecal material in patients with colorectal neoplasia and control subjects. Kishida T, et al. **J Gastroenterol** 1997 Jun;32(3):306–11

Stereospecific occurrence of a parkinsonism-inducing catechol isoquinoline, N-methyl(R)salsolinol, in the human intraventricular fluid. Maruyama W, et al. **J Neural Transm** 1996;103(8–9):1069–76

Determination of amino acids in biological fluids by capillary gas chromatography with nitrogen-phosphorus selective detection. Kataoka H, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1271–9

Adsorption of fluoxetine HCl by activated charcoal. Cooney DO, et al. **J Pharm Sci** 1997 May;86(5):642–4

Characterization of the inflammatory cytokines in the vagina during pregnancy and labor and with bacterial vaginosis. Imseis HM, et al. **J Soc Gynecol Investig** 1997 Mar–Apr; 4(2):90–4

Tumor markers in hydrocele fluids of patients with benign and malignant scrotal diseases. Dorfinger K, et al. **J Urol** 1997 Sep;158(3 Pt 1):851–5

Hydrogen peroxide in acute otitis media in guinea pigs. Takoudes TG, et al. **Laryngoscope** 1997 Feb;107(2):206–10

Measurement of nitrate and nitrite in biological samples using nitrate reductase and Griess reaction. Granger DL, et al. **Methods Enzymol** 1996;268:142–51

Low levels of IL-1ra versus IL-1 levels in prostatic fluid are not a cause of prolongation of prostatitis. Nishimura T, et al. **Nippon Ika Daigaku Zasshi** 1996 Dec;63(6):502–3

Vaginal fluid hCG levels for detecting premature rupture of membranes. Anai T, et al. **Obstet Gynecol** 1997 Feb; 89(2):261–4

Locations and molecular forms of gastrin-releasing peptide-like immunoreactive entities in ovine pregnancy. Xiao Q, et al. **Peptides** 1996;17(3):489–95

Characterization of fluids from the stomach and proximal jejunum in men and women. Lindahl A, et al. **Pharm Res** 1997 Apr;14(4):497–502

Epidermal growth factor-related peptides in human prostatic fluid: sources of variability in assay results. Gann PH, et al. **Prostate** 1997 Sep 1;32(4):234–40

Quantitative vitreous collection using a modified infusion fluid during vitrectomy. Hardwick CW Jr, et al. **Retina** 1997;17(1):51–6

Quantitative determination of hirudin in blood and body fluids. Nowak G, et al. **Semin Thromb Hemost** 1996; 22(2):197–202

Capillary electrophoresis for drug analysis in body fluids. Thormann W, et al. **Ther Drug Monit** 1996 Aug; 18(4):506–20

Assessment of hepatic graft injury by graft effluent in rodents: N-acetyl-beta-glucosaminidase and type III procollagen peptide. Wakiyama S, et al. **Transpl Int** 1996;9(4):359–63

[The evaluation of tumor necrosis factor-alpha concentration in body fluids in local and systemic endotoxin exposure (published erratum appears in Zentralbl Veterinarmed [B] 1997 Mar;44(1):64)] Kretzschmar C. **Zentralbl Veterinarmed [B]** 1996 Nov;43(9):525–38 (93 ref.) (Eng. Abstr.) **(Ger)**

[Endogenous blocker of beta-adrenoreceptors] Tsirkin VI, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):248–52 **(Rus)**

[The metrological assessment of the results of the quantitative determination of ethanol in biological fluids] Bataev GI. **Sud Med Ekspert** 1996 Oct–Dec;39(4):34–5 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Cellular fixation. A study of CytoRich Red and Cytospin Collection Fluid. Weidmann J, et al. **Acta Cytol** 1997 Jan–Feb;41(1):182–7

A comparison of the effectiveness of malignancy detection in body fluid examination by the cytopathology and hematology laboratories. Kendall B, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):976–9

Comparison of Cyto-Shuttle and cytocentrifuge as processing methods for nongynecologic cytology specimens. Robb J, et al. **Diagn Cytopathol** 1996 Jun; 14(4):305–9

Early prenatal diagnosis of fetal aneuploidy using coelomic fluid. Atkinson G, et al. **Early Hum Dev** 1996 Dec 30;47 Suppl:S103–4

In vitro effects of immunosuppressive agents on cytokine production by HTLV-I-infected T cell clones derived from the ocular fluid of patients with HTLV-I uveitis. Sagawa K, et al. **Microbiol Immunol** 1996;40(5):373–9

Fetal nucleated erythrocytes (NRBCs) in chorionic villus sample supernatant fluids: an additional source of fetal material for karyotype confirmation. Mavrou A, et al. **Prenat Diagn** 1997 Jul;17(7):643–9

DRUG EFFECTS

Corticosteroids significantly delay the onset of docetaxel-induced fluid retention: final results of a randomized study of the European Organization for Research and Treatment of Cancer Investigational Drug Branch for Breast Cancer. Piccart MJ, et al. **J Clin Oncol** 1997 Sep;15(9):3149–55

Endometrial fluid accumulation in postmenopausal women [letter; comment] Goldstein SR. **Ultrasound Obstet Gynecol** 1996 Dec;8(6):429. Comment on: Ultrasound Obstet Gynecol 1996 Jul;8(1):37–41.

Endometrial fluid accumulation in asymptomatic postmenopausal women [see comments] Vuento MH, et al. **Ultrasound Obstet Gynecol** 1996 Jul;8(1):37–41. Comment in: Ultrasound Obstet Gynecol 1996 Dec;8(6):429.

ENZYMOLOGY

Tryptase concentration in skin blister fluid from patients with bullous skin conditions. Brockow K, et al. **Arch Dermatol Res** 1996 Nov;288(12):771–3

Immunofluorometric assay of pepsinogen C and preliminary clinical applications. Diamandis EP, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1365–71

The role of superoxide dismutase in the human ovary and fallopian tube. Tamate K, et al. **J Obstet Gynaecol** 1995 Aug;21(4):401–9

Cathepsin D and an alkaline protease activities in subretinal fluid. Wolańska M, et al. **Rocz Akad Med Bialymst** 1995; 40(2):383–9

A sensitive bioimmunoassay for thrombin-cleaved two-chain urokinase-type plasminogen activator in human body fluids. Braat EA, et al. **Thromb Haemost** 1996 Jun; 75(6):908–14

IMMUNOLOGY

Sequential measurements of human decidua-associated protein (hDP) 200 in the uterine fluid during the menstrual cycle. Halperin R, et al. **Am J Reprod Immunol** 1996 Feb; 35(2):102–5

TGF beta 2 in rabbit blastocoelic fluid regulates CD4 membrane expression: possible role in the success of gestation. Ouellette MJ, et al. **Am J Reprod Immunol** 1997 Jan;37(1):125–36

Immunoblotting characterization of CA 125 in biological fluids: difference between pregnancy and cancer CA 125 origin. Barbati A, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3621–4

Assessment of immune mediator expression levels in biological fluids and cells: a critical appraisal. Patarca R, et al. **Crit Rev Oncog** 1995;6(2):117–49 (289 ref.)

Immunosuppressive effect of uterine fluid on spermatozoa-stimulated mixed lymphocyte cultures. Halperin R, et al. **Gynecol Obstet Invest** 1996;41(2):118–21

Identification and characterization of an active soluble form of human CD38 in normal and pathological fluids. Funaro A, et al. **Int Immunol** 1996 Nov;8(11):1643–50

In vitro effects of immunosuppressive agents on cytokine production by HTLV-I-infected T cell clones derived from the ocular fluid of patients with HTLV-I uveitis. Sagawa K, et al. **Microbiol Immunol** 1996;40(5):373–9

Nasal immunization with group B streptococci can induce high levels of specific IgA antibodies in cervicovaginal secretions of mice. Hordnes K, et al. **Vaccine** 1997 Aug; 15(11):1244–51

[Free light-chain immunoglobulins in the biological fluids of patients with multiple sclerosis] Totolian NA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(5):34–8 (Eng. Abstr.) **(Rus)**

METABOLISM

Role of kinases and phosphatases in the regulation of fluid secretion and Cl-/HCO3- exchange in cholangiocytes. Alvaro D, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G303–13

Nonsteroidal anti-inflammatory drugs alter chloride and fluid transport in bovine retinal pigment epithelium. Bialek S, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1175–89

Epidermal growth factor and fluid and electrolyte balance in the rat. Grant SL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1853–61

Mechanism of swelling activation of K-Cl cotransport in inside-out vesicles of LK sheep erythrocyte membranes. Kelley SJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1122–30

Effect of angiotensin II receptor blockade on proximal tubular fluid reabsorption. Leyssac PP, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R510–7

Doxorubicin selection for MDR1/P-glycoprotein reduces swelling-activated K+ and Cl- currents in MES-SA cells. Luckie DB, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1029–36

Blockade of the renin-angiotensin-aldosterone system prevents growth hormone-induced fluid retention in humans. Møller J, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E803–8

Exotoxin A stimulates fluid reabsorption from distal airspaces of lung in anesthetized rats. Pittet JF, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L232–41

Changes in myocardial fluid filtration are reflected in epicardial lymph pressure. VanTeeffelen JW, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H706–13

Role of the adrenal glands in the maturation of lung liquid secretory mechanisms in fetal sheep. Wallace MJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R33–40

Age and regulation of fluid and electrolyte balance during repeated exercise sessions. Zappe DH, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R71–9

In vivo analysis of fluid transport in cystic fibrosis airway epithelia of bronchial xenografts. Zhang Y, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1326–35

Nitrate analysis in biological fluids by gas chromatography-nitrogen-phosphorous detection. Johnson AA, et al. **Anal Biochem** 1996 May 1;236(2):331–7

Detection of elevated levels of IL-4, IL-6, and IL-10 in blister fluid of bullous pemphigoid. Schmidt E, et al. **Arch Dermatol Res** 1996 Jun;288(7):353–7

CD4 and CD8 antigen coexpression: a flow cytometric study of peripheral blood, bone marrow, body fluid, and solid lymphoreticular specimens. Nah EH, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):381–4

The inferior vena cava diameter as a marker of dry weight in chronic hemodialyzed patients. Ando Y, et al. **Artif Organs** 1995 Dec;19(12):1237–42

Standard reference materials and data quality assurance in the biomedical analysis of trace elements. Gallorini M, et al. **Biol Trace Elem Res** 1996 Jun;52(3):263–72 (18 ref.)

Catalytic and structural modifications of sarcoplasmic reticulum and plasma membrane (Ca(2+) + Mg2+) ATPases induced by organic solutes that accumulate in living systems. Vieyra A. **Biosci Rep** 1996 Apr;16(2):115–27 (53 ref.)

Mechanism of fluid transport across corneal endothelium and other epithelial layers: a possible explanation based on cyclic cell volume regulatory changes. Fischbarg J. **Br J Ophthalmol** 1997 Jan;81(1):85–9 (51 ref.)

Effects of acetylcholine on lung liquid production by in vitro lungs from fetal guinea pigs. Woods BA, et al. **Can J Physiol Pharmacol** 1996 Aug;74(8):918–27

Respiratory tract lining fluid antioxidants: the first line of defence against gaseous pollutants. Kelly FJ, et al. **Cent Eur J Public Health** 1996;4 Suppl:11–4

Drug monitoring in nonconventional biological fluids and matrices [see comments] Pichini S, et al. **Clin Pharmacokinet** 1996 Mar;30(3):211–28 (140 ref.). Comment in: Clin Pharmacokinet 1996 Jul;31(1):81.

Growth hormone (GH) therapy markedly increases the motility of spermatozoa and the concentration of insulin-like growth factor-I in seminal vesicle fluid in the male GH-deficient dwarf rat. Breier BH, et al. **Endocrinology** 1996 Sep;137(9):4061–4

Levels of some cytokines in subretinal fluid in proliferative vitreoretinopathy and rhegmatogenous retinal detachment. Kenarova B, et al. **Eur J Ophthalmol** 1997 Jan–Mar; 7(1):64–7

Distribution of apomorphine enantiomers in plasma, brain tissue and striatal extracellular fluid. Sam E, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):9–15

Effect of intraperitoneal antimicrobials on the concentration of bacteria, endotoxin, and tumor necrosis factor in abdominal fluid and plasma in rats. Rosman C, et al. **Eur Surg Res** 1996;28(5):351–60

Allopurinol treatment results in elevated prostate-specific antigen levels in prostatic fluid and serum of patients with non-bacterial prostatitis. Persson BE, et al. **Eur Urol** 1996; 29(1):111–4

Adrenal independence of fluid and electrolyte reabsorption in the ductuli efferentes testis of the rat. Man SY, et al. **Exp Physiol** 1997 Mar;82(2):283–90

Effect on phloridzin on net rate of liquid absorption from the pleural space of rabbits. Zocchi L, et al. **Exp Physiol** 1996 Nov;81(6):957–67

Multiplexing of Y chromosome specific STRs and performance for mixed samples. Prinz M, et al. **Forensic Sci Int** 1997 Mar 14;85(3):209–18

Lipid peroxidation products in human subretinal fluid. Bosch-Morell F, et al. **Free Radic Biol Med** 1996; 20(7):899–903

The pendulum of medical progress and intestinal fluid secretion: 1890–1997. Binder HJ. **Gastroenterology** 1997 May;112(5):1748–9

Thickened endometrial stripe and/or endometrial fluid as a marker of pathology: fact or fancy? Brooks SE, et al. **Gynecol Oncol** 1996 Oct;63(1):19–24

Combined measurement of tissue fluid, blood volume and hemodynamics in hemodialysis. De Vries JP, et al. **Int J Artif Organs** 1995 Nov;18(11):705–11

Bioelectrical impedance analysis: clinical tool in assessing total body water and thoracic fluid. De Vries PM, et al. **Int J Artif Organs** 1995 Nov;18(11):693–9

Zinc concentration in human prostatic fluid: normal, chronic prostatitis, adenoma and cancer. Zaichick VY, et al. **Int Urol Nephrol** 1996;28(5):687–94

Fluid regulatory hormone response to exercise after coca-induced body fluid shifts. Favier R, et al. **J Appl Physiol** 1997 Aug;83(2):376–82

Fluid and electrolyte hormonal responses to exercise and acute plasma volume expansion. Grant SM, et al. **J Appl Physiol** 1996 Dec;81(6):2386–92

Alveolar liquid clearance is increased by endogenous catecholamines in hemorrhagic shock in rats. Pittet JF, et al. **J Appl Physiol** 1996 Aug;81(2):830–7

Surface functional group dependence on apatite formation on self-assembled monolayers in a simulated body fluid. Tanahashi M, et al. **J Biomed Mater Res** 1997 Mar 5; 34(3):305–15

High-performance liquid chromatographic analysis of amoxicillin in human and chinchilla plasma, middle ear fluid and whole blood. Yuan Z, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):361–6

Gestational age-dependent expression of insulin-like growth factor-binding protein-1 (IGFBP-1) phosphoisoforms in human extraembryonic cavities, maternal serum, and decidua suggests decidua as the primary source of IGFBP-1 in these fluids during early pregnancy. Martina NA, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1894–8

Increased concentration of vascular endothelial growth factor/vascular permeability factor in cyst fluid of enlarging and recurrent thyroid nodules. Sato K, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1968–73

Generation and characterization of an IGFBP-7 antibody: identification of 31kD IGFBP-7 in human biological fluids and Hs578T human breast cancer conditioned media. Wilson EM, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1301–3

Eosinophil-colony stimulating activity in blister fluid of bullous pemphigoid. Kawachi Y, et al. **J Dermatol Sci** 1997 May;15(1):51–4

Detection of IL-1 alpha, IL-1 beta and IL-1 receptor antagonist in blister fluid of bullous pemphigoid. Schmidt E, et al. **J Dermatol Sci** 1996 Feb;11(2):142–7

Validation of multifrequency bioelectrical impedance analysis in monitoring fluid balance in healthy elderly subjects. Olde Rikkert MG, et al. **J Gerontol A Biol Sci Med Sci** 1997 May;52(3):M137–41

The role of fetal myoglobin in the initiation of human parturition. Orlov VI, et al. **J Perinat Med** 1996; 24(5):495–500

Role for insulin-like growth factor I in the regulation of electrolyte composition of uterine luminal fluid. Katagiri S, et al. **J Reprod Fertil** 1997 Jan;109(1):115–20

Hematologic and body fluid changes during simulated high altitude exposure in naproxen-treated rats. Biswas HM, et al. **Jpn J Physiol** 1996 Feb;46(1):67–73

Changes in renal sympathetic nerve activities in the regulation of body fluid balance with special reference to central neuropeptides in conscious rats. Kannan H. **Jpn J Physiol** 1996 Apr;46(2):111–22 (107 ref.)

Body fluid metabolism at actual and simulated microgravity. Gerzer R, et al. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S32–5

Critical discussion of research issues in body fluid metabolism and control of intravascular volume. Hargens AR. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S56; discussion S56–9

Transmural coupling of fluid flow in microcirculatory network and interstitium in tumors. Baish JW, et al. **Microvasc Res** 1997 Mar;53(2):128–41

Sudden infant death syndrome: postmortem findings of nicotine and cotinine in pericardial fluid of infants in relation to morphological changes and position at death. Rajs J, et al. **Pediatr Pathol Lab Med** 1997 Jan–Feb; 17(1):83–97

Granulocyte-macrophage colony-stimulating factor in amniotic fluid and in airway specimens of newborn infants. Bry K, et al. **Pediatr Res** 1997 Jan;41(1):105–9

Body fluid alterations and organ hypertrophy in age-dependent salt hypertension of Dahl rats. Dobešová Z, et al. **Physiol Res** 1995;44(6):377–87

Proton MRS of human prostatic fluid: correlations between citrate, spermine, and myo-inositol levels and changes with disease. Lynch MJ, et al. **Prostate** 1997 Mar 1;30(4):248–55

Effects of lung expansion on lung liquid production in vitro by lungs from fetal guinea-pigs. II. Evidence for generation of an inhibitory factor. Nelson PG, et al. **Reprod Fertil Dev** 1996;8(3):347–54

Effects of lung expansion on lung liquid production in vitro by lungs from fetal guinea-pigs. I. Basic studies and the effects of amiloride and propranolol. Nelson PG, et al. **Reprod Fertil Dev** 1996;8(3):335–46

Osmolality of equine blastocyst fluid from day 11 to day 25 of pregnancy. Waelchli RO, et al. **Reprod Fertil Dev** 1996;8(6):981–8

Apolipoprotein E in the subretinal fluid of rhegmatogenous and exudative retinal detachments. Schneeberger SA, et al. **Retina** 1997;17(1):38–43

Clinical evidence of the fluid dynamics in a giant tear of the retinal pigment epithelium. Silvestri G, et al. **Retina** 1996;16(5):452–5

When vitreous enters the subretinal space. Implications for subretinal fluid protein. Takeuchi A, et al. **Retina** 1996; 16(5):426–30

Diffusion coefficients and solubility coefficients for gases in biological fluids and tissues: a review. Langø T, et al. **Undersea Hyperb Med** 1996 Dec;23(4):247–72

Swelling of the vesicle is prerequisite for PTH secretion. Lim SK, et al. **Yonsei Med J** 1996 Feb;37(1):59–67

[Early postirradiation changes in Na+ and fluid transport across alveolar epithelium in rats] Suzuki S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):167–72 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Application of the Roche Amplicor Mycobacterium tuberculosis (PCR) test to specimens other than respiratory secretions. D'Amato RF, et al. **Diagn Microbiol Infect Dis** 1996 Jan;24(1):15–7

Effect of intraperitoneal antimicrobials on the concentration of bacteria, endotoxin, and tumor necrosis factor in abdominal fluid and plasma in rats. Rosman C, et al. **Eur Surg Res** 1996;28(5):351–60

[The role of bacteriologic tests for diagnosis of tuberculosis in clinics other than tuberculosis control clinics (preliminary evaluation of test methods and their results)] Pęcak W. **Pneumonol Alergol Pol** 1997;65(5–6):360–3 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Intrauterine fluid accumulation in oestrous mares. Reilas T, et al. **Acta Vet Scand** 1997;38(1):69–78

The role of fetal karyotyping from unconventional sources. Teoh TG, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):873–7

Surface tension measurements on pharyngeal and tracheal aspirate samples from newborns without and with respiratory distress syndrome. Friedrich W, et al. **Biol Neonate** 1996;70(2):75–83

The effect of burn blister fluid on fibroblast contraction. Wilson AM, et al. **Burns** 1997 Jun;23(4):306–12

Acid-base balance in plasmatic, pericardial and peritoneal fluids in 2 species of amphibians. Dejours P, et al. **C R Acad Sci III** 1996 Aug;319(8):693–7

Integrative role of the lamina terminalis in the regulation of cardiovascular and body fluid homeostasis. Johnson AK, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):183–91

The role of the epididymis in the protection of spermatozoa. Hinton BT, et al. **Curr Top Dev Biol** 1996;33:61–102 (277 ref.)

Integrative regulations of body temperature and body fluid in humans exercising in a hot environment. Nose H, et al. **Int J Biometeorol** 1997 Feb;40(1):42–9 (64 ref.)

Interstitial fluid, plasma protein, colloid, and leukocyte uptake into initial lymphatics. Ikomi F, et al. **J Appl Physiol** 1996 Nov;81(5):2060–7

One-minute wave in body fluid volume change enhanced by postural sway during upright standing. Inamura K, et al. **J Appl Physiol** 1996 Jul;81(1):459–69

Central role of the kidney and abnormal fluid volume control in hypertension. Hall JE, et al. **J Hum Hypertens** 1996 Oct; 10(10):633–9 (23 ref.)

Fetal lung growth after tracheal ligation is not solely a pressure phenomenon. Papadakis K, et al. **J Pediatr Surg** 1997 Feb;32(2):347–51

The effects of continuous drainage of fetal fluids on salt and water balance in fetal sheep. Gibson KJ, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):443–50

Effect of postural changes on the reliability of volume estimations from bioimpedance spectroscopy data. Scharfetter H, et al. **Kidney Int** 1997 Apr;51(4):1078–87

Effect of mechanical ventilation on regional variation of pleural liquid thickness in rabbits. Wang PM, et al. **Lung** 1997;175(3):165–73

Whole-body hyperhydration in endurance-trained males determined using radionuclide dilution. Maw GJ, et al. **Med Sci Sports Exerc** 1996 Aug;28(8):1038–44

Aldosterone and vasopressin responses in the heat: hydration level and exercise intensity effects. Montain SJ, et al. **Med Sci Sports Exerc** 1997 May;29(5):661–8

SECRETION

Nitric oxide counteracts 5-hydroxytryptamine- and cholera toxin-induced fluid secretion and enhances the effect of oral rehydration solution. Beubler E, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):223–8

NG-nitro-L-arginine methyl ester reduces senna- and cascara-induced diarrhoea and fluid secretion in the rat. Izzo AA, et al. **Eur J Pharmacol** 1996 Apr 22; 301(1–3):137–42

Fluid transport across cultures of human tracheal glands is altered in cystic fibrosis. Jiang C, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):637–47

Several receptors mediate the antisecretory effect of peptide YY, neuropeptide Y, and pancreatic polypeptide on VIP-induced fluid secretion in the rat jejunum in vivo. Souli A, et al. **Peptides** 1997;18(4):551–7

Acidaemia enhances the inhibitory effect of hypoxia on fetal lung liquid secretion in sheep. Wallace MJ, et al. **Reprod Fertil Dev** 1996;8(3):327–33

ULTRASONOGRAPHY

The presence of endometrial fluid in asymptomatic postmenopausal women is associated with clinically relevant cervical stenosis [letter; comment] Goldstein SR. **J Ultrasound Med** 1997 Mar;16(3):208. Comment on: J Ultrasound Med 1996 Jul;15(7):513–5.

Clinical significance of endometrial fluid collections in asymptomatic postmenopausal women [see comments] Zalel Y, et al. **J Ultrasound Med** 1996 Jul;15(7):513–5. Comment in: J Ultrasound Med 1997 Mar;16(3):208.

VIROLOGY

Accidental exposures to blood and body fluids among health care workers in dental teaching clinics: a prospective study. Ramos-Gomez F, et al. **J Am Dent Assoc** 1997 Sep; 128(9):1253–61

[Evaluation of a dot-blot ELISA method, direct immunofluorescence, and shell-vial culture for the detection of influenza virus A in nasopharyngeal aspirates (letter)] Reina J, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):397–8 **(Spa)**

BODY HEIGHT

Short stature: an obstetric risk factor? A comparison of two villages in Tanzania. Møller B, et al. **Acta Obstet Gynecol Scand** 1997 May;76(5):394–7

Adult height after cranial irradiation with 24 Gy: factors and markers of height loss. Adan L, et al. **Acta Paediatr** 1996 Sep;85(9):1096–101

Specific abnormalities in a visual motor psychological test in short children with abnormal growth hormone secretion. Andronikof-Sanglade A, et al. **Acta Paediatr** 1997 Feb; 86(2):154–9

Frequent diarrhoeas in early childhood have sustained effects on the height, weight and head circumference of children in East Bhutan. Bøhler E, et al. **Acta Paediatr** 1996 Jan; 85(1):26–30

A new model to predict final height in constitutionally tall children. de Waal WJ, et al. **Acta Paediatr** 1996 Aug; 85(8):889–93

A non-linear model of growth in the first year of life. Giani U, et al. **Acta Paediatr** 1996 Jan;85(1):7–13

Linear growth in early treated children with congenital hypothyroidism. Heyerdahl S, et al. **Acta Paediatr** 1997 May;86(5):479–83

Differences in height and weight between children living in neighbourhoods of different socioeconomic status. Jansen W, et al. **Acta Paediatr** 1997 Feb;86(2):224–5

Serum procollagen I carboxyterminal propeptide (PICP) levels through puberty: relation to height velocity and serum hormone levels. Rotteveel J, et al. **Acta Paediatr** 1997 Feb;86(2):143–7

The measurement of knee-heel length in newborn infants

using a simple vernier calipers. Skinner AM, et al. **Acta Paediatr** 1997 May;86(5):512–7

Does impaired growth of PKU patients correlate with the strictness of dietary treatment? National Dutch PKU Steering Committee. van Spronsen FJ, et al. **Acta Paediatr** 1997 Aug;86(8):816–8

Growth hormone–binding protein in short children. Carlsson L. **Acta Paediatr Suppl** 1996 Oct;417:105–7 (27 ref.)

Serological screening (antigliadin and antiendomysium antibodies) for non–overt coeliac disease in children of short stature. de Lecea A, et al. **Acta Paediatr Suppl** 1996 May;412:54–5

Issues in final height prediction [comment] Hintz RL. **Acta Paediatr Suppl** 1996 Oct;417:51–2. Comment on: Acta Paediatr Suppl 1996 Oct;417 :53–7. Comment on: Acta Paediatr Suppl 1996 Oct;417 :57–60. Comment on: Acta Paediatr Suppl 1996 Oct;417 :61–3.

Computer simulation of final height after growth–promoting therapy [see comments] Karlberg J. **Acta Paediatr Suppl** 1996 Oct;417:61–3. Comment in: Acta Paediatr Suppl 1996 Oct;417 :51–2.

Prediction of adult height in healthy Japanese children [see comments] Tanaka T, et al. **Acta Paediatr Suppl** 1996 Oct; 417:57–60. Comment in: Acta Paediatr Suppl 1996 Oct;417 :51–2.

Final height prediction models for pubertal boys [see comments] Zadik Z, et al. **Acta Paediatr Suppl** 1996 Oct; 417:53–6. Comment in: Acta Paediatr Suppl 1996 Oct;417 :51–2.

Weight, height and body mass index distributions in geographically and ethnically diverse samples of older persons. Ad Hoc Committee on the Statistics of Anthropometry and Aging. Launer LJ, et al. **Age Ageing** 1996 Jul;25(4):300–6

Weight and height as screening measures for adults [letter] Beasley JW, et al. **Am Fam Physician** 1997 Sep 15; 56(4):1068

Higher prevalence and greater severity of coronary disease in short versus tall men referred for coronary arteriography. Nwasokwa ON, et al. **Am Heart J** 1997 Feb; 133(2):147–52

Inverse relation between height and cardiovascular mortality in men during 30–year follow–up. Strandberg TE. **Am J Cardiol** 1997 Aug 1;80(3):349–50

Body composition, resting metabolic rate, and energy requirements of short– and normal–stature, low–income Guatemalan children. Wren RE, et al. **Am J Clin Nutr** 1997 Aug;66(2):406–12

Re: "Height and the risk of cardiovascular disease in women" [letter; comment] Walker M, et al. **Am J Epidemiol** 1996 Oct 1;144(7):708–9. Comment on: Am J Epidemiol 1995 Nov 1;142(9):909–17.

Apparently new syndrome of congenital cataracts, sensorineural deafness, Down syndrome–like facial appearance, short stature, and mental retardation [letter; comment] Aymé S, et al. **Am J Med Genet** 1997 Jun 13; 70(3):333–5. Comment on: Am J Med Genet 1996 Feb 2;61(4):382–6.

Macrocephaly, facial abnormalities, disproportionate tall stature, and mental retardation--a sib observation. Bakker HD, et al. **Am J Med Genet** 1997 Jun 13;70(3):312–4

Standard weight for height curves in achondroplasia. Hunter AG, et al. **Am J Med Genet** 1996 Mar 29;62(3):255–61

"Race" specificity and the femur/stature ratio. Feldesman MR, et al. **Am J Phys Anthropol** 1996 Jun;100(2):207–24

Regression equations for estimating stature from long bones of early holocene European samples. Formicola V, et al. **Am J Phys Anthropol** 1996 May;100(1):83–8

Technical note: error in Olivier and Pineau's regression formulae for calculation of stature and lunar age from radial diaphyseal length in forensic fetal remains. Huxley AK, et al. **Am J Phys Anthropol** 1996 Jul;100(3):435–7

Allometry and adaptation of body proportions and stature in African pygmies. Shea BT, et al. **Am J Phys Anthropol** 1996 Jul;100(3):311–40

Birthweight for length: ponderal index, body mass index or Benn index? Cole TJ, et al. **Ann Hum Biol** 1997 Jul–Aug; 24(4):289–98

Eleven–year tracking of established cardiovascular risk factors in Italian school–aged children. Angelico F, et al. **Ann Ig** 1997 May–Jun;9(3):193–200

Body size and risk of pre– and post–menopausal breast cancer in Taiwan. Chie WC, et al. **Anticancer Res** 1996 Sep–Oct; 16(5B):3129–32

Growth monitoring with the British 1990 growth reference. Cole TJ. **Arch Dis Child** 1997 Jan;76(1):47–9

Height and weight achievement in cleft lip and palate [corrected and republished article originally printed in Arch Dis Child 1996 Oct;75(4):327–9] Lee J, et al. **Arch Dis Child** 1997 Jan;76(1):70–2

Height and weight achievement in cleft lip and palate [corrected and republished in Arch Dis Child 1997 Jan;76(1):70–2] Lee J, et al. **Arch Dis Child** 1996 Oct; 75(4):327–9

Final height in central precocious puberty after long term treatment with a slow release GnRH agonist. Oostdijk W, et al. **Arch Dis Child** 1996 Oct;75(4):292–7

Adult height in patients with childhood onset atopic dermatitis. Patel L, et al. **Arch Dis Child** 1997 Jun; 76(6):505–8

Growth of Hmong children. Gjerdingen DK, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1295–8

Reference data for head circumference–for–length in preterm low–birth–weight infants. Roche AF, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):50–7

Changes in spine height throughout 32 hours of bedrest. McGill SM, et al. **Arch Phys Med Rehabil** 1996 Oct; 77(10):1071–3

Growth hormone therapy transiently increases apolipoprotein(a) in short beta–thalassaemia major children with normal growth hormone reserve. Tam SC, et al. **Atherosclerosis** 1997 Feb 10;128(2):175–82

Safe depths for teaching children to dive. Blanksby BA, et al. **Aust J Sci Med Sport** 1996 Sep;28(3):79–85

Height increase, neuromuscular function, and back pain during 6 degrees head–down tilt with traction. Styf JR, et al. **Aviat Space Environ Med** 1997 Jan;68(1):24–9

Are short normal children at a disadvantage? The Wessex growth study. Downie AB, et al. **BMJ** 1997 Jan 11; 314(7074):97–100

Associations of alcohol, height, and reproductive factors with serum hormone concentrations in postmenopausal Japanese women. Steroid hormones in Japanese postmenopausal women. Nagata C, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):235–41

Breast cancer risk is positively associated with height. Wang DY, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):123–8

Adult height and incidence of cancer in male physicians (United States). Hebert PR, et al. **Cancer Causes Control** 1997 Jul;8(4):591–7

Height, body weight, and risk of prostate cancer. Giovannucci E, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):557–63

Body height, cardiovascular risk factors, and risk of stroke in middle–aged men and women. A 14–year follow–up of the Finnmark Study. Njølstad I, et al. **Circulation** 1996 Dec 1;94(11):2877–82

A syndrome of short stature, mental retardation, facial dysmorphism, short webbed neck, skin changes and congenital heart disease. al–Gazali LI, et al. **Clin Dysmorphol** 1996 Oct;5(4):321–7

Longer term outcome in females with congenital adrenal hyperplasia (CAH): the Cardiff experience. Premawardhana LD, et al. **Clin Endocrinol (Oxf)** 1997 Mar; 46(3):327–32

Tibioperoneal diaphyseal toxopachyosteosis or Weismann–Netter–Stuhl syndrome: difficulties encountered in classifying this syndrome and differentiation from rickets. Nores JM, et al. **Clin Exp Rheumatol** 1997 Jan–Feb; 15(1):105–9 (49 ref.)

Overgrowth disorders. Sotos JF. **Clin Pediatr (Phila)** 1996 Oct;35(10):517–29 (66 ref.)

A comparative analysis of weight to height and waist to hip circumference indices as indicators of the presence of cardiovascular disease risk factors. Canadian Heart Health Surveys Research Group. Ledoux M, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S32–8

Short stature. Underwood LE. **Curr Ther Endocrinol Metab** 1997;6:66–8 (4 ref.)

Pubertal growth, sexual maturation, and final height in children with IDDM. Effects of age at onset and metabolic control. Salerno M, et al. **Diabetes Care** 1997 May; 20(5):721–4

A case of XYY syndrome with short stature. Matsuo S, et al. **Endocr J** 1996 Oct;43 Suppl:S137–9

Short stature caused by a mutant growth hormone with an antagonistic effect. Takahashi Y, et al. **Endocr J** 1996 Oct; 43 Suppl:S27–32

Defective response of body height to growth hormone treatment in resistance to thyroid hormone with short stature. Takamatsu J, et al. **Endocr J** 1996 Oct;43 Suppl:S131–3

Combined GH and LHRH analog treatment in short children. Tanaka T, et al. **Endocr J** 1996 Oct;43 Suppl:S13–7 (8 ref.)

Age when maximum height is reached as a risk factor for breast cancer among young U.S. women. Li CI, et al. **Epidemiology** 1997 Sep;8(5):559–65

The relationship between arm–span measurement and height with special reference to gender and ethnicity. Reeves SL, et al. **Eur J Clin Nutr** 1996 Jun;50(6):398–400

Height and weight reference charts for children aged 2–18 years from Verona, Italy. Zoppi G, et al. **Eur J Clin Nutr** 1996 Jul;50(7):462–8

Final height of patients treated for isolated GH deficiency: examination of 83 patients. Cacciari E, et al. **Eur J Endocrinol** 1997 Jul;137(1):53–60

Vertical facial growth and statural growth in girls: a longitudinal comparison. van der Beek MC, et al. **Eur J Orthod** 1996 Dec;18(6):549–55

Revision and update of Tanner–Whitehouse clinical longitudinal charts for height and weight [letter] Tanner JM, et al. **Eur J Pediatr** 1997 Mar;156(3):248–9

Anthropomorphic measurements of patients with myelomeningocele [letter; comment] Trollmann R, et al. **Eur J Pediatr** 1996 Oct;155(10):914–5. Comment on: Eur J Pediatr 1995 May;154(5):398–402.

A model for standardization of lung function parameters by height. Kostianev S, et al. **Folia Med (Plovdiv)** 1996; 38(3–4):29–33

Estimation of stature from stride length while walking fast. Jasuja OP, et al. **Forensic Sci Int** 1997 May 5;86(3):181–6

Bayesian estimation of the parameters of a nonlinear model. An application to human height. Abidi H, et al. **Growth Dev Aging** 1996 Autumn–Winter;60(3–4):113–29

Growth retardation in constitutionally short children is related both to low serum levels of insulin–like growth factor–I and to its reduced bioavailability. Lindgren BF, et al. **Growth Regul** 1996 Sep;6(3):158–64

Growth Standards, Bone Maturation and Idiopathic Short Stature. Proceedings of the 1st KIGS Expert Meeting. Positano, Italy, November 10–11, 1995. **Horm Res** 1996;45 Suppl 2:1–67 (0 ref.)

Persistent short stature in children with intrauterine growth retardation: use of growth hormone treatment. Albanese A, et al. **Horm Res** 1997;48 Suppl 1:63–6 (21 ref.)

Short–term growth hormone therapy increases serum lipoprotein (a) levels in normal short children without growth hormone deficiency. Hershkovitz E, et al. **Horm Res** 1996 Jul;46(1):38–40

Growth hormone treatment of idiopathic short stature. Hintz RL. **Horm Res** 1996;46(4–5):208–14 (35 ref.)

The timing of early postnatal catch–up growth in normal, full–term infants born short for gestational age. Karlberg JP, et al. **Horm Res** 1997;48 Suppl 1:17–24

Spontaneous adult height in patients with idiopathic short stature. Price DA. **Horm Res** 1996;45 Suppl 2:59–63 (21 ref.)

Towards a consensus on the definition of idiopathic short stature. Ranke MB. **Horm Res** 1996;45 Suppl 2:64–6

Growth hormone treatment in short children born small for gestational age: from controversy towards consensus. Ranke MB, et al. **Horm Res** 1997;48 Suppl 1:72–4 (8 ref.)

Measurement of spontaneous, 12–hour sleep–associated GH secretion in prepubertal children with short stature: clinical relevance and practicability? Schmidt H, et al. **Horm Res** 1996 Jul;46(1):33–7

Severe thrombosis during treatment with ethinylestradiol for tall stature. Weimann E, et al. **Horm Res** 1996;45(6):261–3

Growth hormone treatment induces a dose–dependent catch–up growth in short children born small for gestational age: a summary of four clinical trials. Wilton P, et al. **Horm Res** 1997;48 Suppl 1:67–71

Non–linear law–like relationship between weight & height of infants & pre–school children. Sundaram KR, et al. **Indian J Med Res** 1996 Mar;103:159–64

Socioeconomic differentials in misclassification of height, weight and body mass index based on questionnaire data. Boström G, et al. **Int J Epidemiol** 1997 Aug;26(4):860–6

Short stature and heart disease: nature or nurture? The EARS Group. Kee F, et al. **Int J Epidemiol** 1997 Aug;26(4):748–56

Association of breastfeeding and stunting in Peruvian toddlers: an example of reverse causality. Marquis GS, et al. **Int J Epidemiol** 1997 Apr;26(2):349–56

A WHO Collaborative Study of Maternal Anthropometry and Pregnancy Outcomes. Kelly A, et al. **Int J Gynaecol Obstet** 1996 Jun;53(3):219–33

Predicting intra–abdominal fatness from anthropometric measures: the influence of stature. Han TS, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):587–93

Limitations of growth charts derived from longitudinal studies: the Euro–Growth Study. van't Hof MA, et al. **Int J Sports Med** 1997 Jul;18 Suppl 3:S204–7

Adult height in 24 patients treated for growth hormone deficiency and early puberty. Adan L, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):229–33

Increased proportion of circulating non–22–kilodalton growth hormone isoforms in short children: a possible mechanism for growth failure. Boguszewski CL, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2944–9

Growth hormone (GH)–binding protein in prepubertal short children born small for gestational age: effects of growth hormone treatment. Swedish Study Group for Growth Hormone Treatment. Boguszewski M, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1014–9

Accuracy of final height prediction and effect of growth–reductive therapy in 362 constitutionally tall children. de Waal WJ, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1206–16

Insulin resistance in short children with intrauterine growth retardation. Hofman PL, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):402–6

Overnight growth hormone concentrations are usually normal in pubertal children with idiopathic short stature—a Clinical Research Center study. Rose SR, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1063–8

Growth of short children during and after discontinuation of growth hormone therapy. Zadik Z, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3668–70

Prediction of young adult blood pressure from childhood blood pressure, height, and weight. Cook NR, et al. **J Clin Epidemiol** 1997 May;50(5):571–9

Body weight, body condition score, and wither height of prepartum Holstein cows and birth weight and sex of calves by parity: a database and summary. Kertz AF, et al. **J Dairy Sci** 1997 Mar;80(3):525–9

Craniofacial growth in short children born small for gestational age: effect of growth hormone treatment. van Erum R, et al. **J Dent Res** 1997 Sep;76(9):1579–86

"Growing pains": clinical and behavioral correlates in a community sample [see comments] Oberklaid F, et al. **J Dev Behav Pediatr** 1997 Apr;18(2):102–6. Comment in: J Dev Behav Pediatr 1997 Apr;18(2):107–8.

Growing pains [comment] Walco GA. **J Dev Behav Pediatr** 1997 Apr;18(2):107–8. Comment on: J Dev Behav Pediatr 1997 Apr;18(2):102–6.

Body size and mortality in women: a 29 year follow up of 12,000 pregnant women in northern Finland. Läärä E, et al. **J Epidemiol Community Health** 1996 Aug;50(4):408–14

Growth curves of Dutch children with Down's syndrome. Cremers MJ, et al. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):412–20

Efficacy of the maternal height to fundal height ratio in predicting arrest of labor disorders. Barnhard YB, et al. **J Matern Fetal Med** 1997 Mar–Apr;6(2):103–7

Body size and prostate cancer: a 20–year follow–up study among 135006 Swedish construction workers. Andersson SO, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):385–9

The relationship between maximal jaw opening and size of skeleton: a cephalometric study. Muto T, et al. **J Oral Rehabil** 1996 Jan;23(1):22–4

New South Wales population–based birthweight percentile charts. Beeby PJ, et al. **J Paediatr Child Health** 1996 Dec; 32(6):512–8

Weight–for–age and weight–for–height references for Hong Kong children from birth to 18 years. Leung SS, et al. **J Paediatr Child Health** 1996 Apr;32(2):103–9

Final height and hormonal function after bone marrow transplantation in children. Clement–De Boers A, et al. **J Pediatr** 1996 Oct;129(4):544–50

Final height outcome in both untreated and testosterone–treated boys with constitutional delay of growth and puberty. Arrigo T, et al. **J Pediatr Endocrinol Metab** 1996 Sep–Oct;9(5):511–7

Anthropometric and nutritional evaluation of short statured children from low socio–economic class. Büyükgebiz B, et al. **J Pediatr Endocrinol Metab** 1996 Mar–Apr; 9(2):189–92

Short stature and low IGF–1 and IGFBP–3 despite normal growth hormone secretion in a 4 year–old girl with primary empty sella syndrome. Dötsch J, et al. **J Pediatr Endocrinol Metab** 1996 May–Jun;9(3):415–8

Two types of growth hormone rhythm in boys with constitutional short stature. Keret R, et al. **J Pediatr Endocrinol Metab** 1996 Nov–Dec;9(6):599–607

Incidence of short stature in children with hydrocephalus. Klauschie J, et al. **J Pediatr Endocrinol Metab** 1996 Mar–Apr;9(2):181–7

An early rise in urine N–telopeptide predicts the growth response of normal prepubertal short children to growth hormone therapy. Phillip M, et al. **J Pediatr Endocrinol Metab** 1996 Sep–Oct;9(5):519–21

Growth in 110 children with Legg–Calvé–Perthes' disease: a longitudinal infancy childhood puberty growth model study. Eckerwall G, et al. **J Pediatr Orthop B** 1996 Summer;5(3):181–4

Bilateral epiphysiodesis around the knee as treatment for excessive height in boys. Plaschaert VF, et al. **J Pediatr Orthop B** 1997 Jul;6(3):212–4

Height, weight, and body mass index (BMI) of Vietnamese (Hanoi) schoolchildren aged 7–11 years related to parents' occupation and education. Aurelius G, et al. **J Trop Pediatr** 1996 Feb;42(1):21–6

Child growth during weaning depends on whether mother is pregnant again. Bøhler E, et al. **J Trop Pediatr** 1996 Apr;42(2):104–9

Acoustic parameters in speaker height and weight identification: sex–specific behaviour. van Dommelen WA, et al. **Lang Speech** 1995 Jul–Sep;38 (Pt 3):267–87

Prediction of adult stature and noninvasive assessment of biological maturation. Beunen GP, et al. **Med Sci Sports Exerc** 1997 Feb;29(2):225–30

Sex, age, height, and weight as predictors of selected physiologic outcomes. Brown JK, et al. **Nurs Res** 1997 Mar–Apr;46(2):101–4

Body mass index at different ages and its association with height at age 14 and with the whole growing process. Amador M, et al. **Nutrition** 1996 Jun;12(6):416–22

The relationship of birthweight with height at 14 and with the growing process. Bacallao J, et al. **Nutrition** 1996 Apr; 12(4):250–4

Short stature in children with respiratory allergy. Sant'Anna CA, et al. **Pediatr Allergy Immunol** 1996 Nov;7(4):187–92

Height and weight in children with vesicoureteric reflux and renal scarring. Polito C, et al. **Pediatr Nephrol** 1996 Oct; 10(5):564–7

Do exclusively breast–fed infants require extra protein? Dewey KG, et al. **Pediatr Res** 1996 Feb;39(2):303–7

Excess fruit juice consumption by preschool–aged children is associated with short stature and obesity. Dennison BA, et al. **Pediatrics** 1997 Jan;99(1):15–22

Fruit juice consumption [letter] Dhurandhar NV. **Pediatrics** 1997 Oct;100(4):728–30

Fruit juice consumption [letter] Kennedy E, et al. **Pediatrics** 1997 Oct;100(4):728; discussion 729–30

Fruit juice consumption [letter] Stinson W. **Pediatrics** 1997 Oct;100(4):728; discussion 729–30

Height, gross domestic product and suicide and homicide. Lester D. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1182

Height and perceived competence of US presidents. Young TJ, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):1002

Psychological complications of short stature in childhood. Some implications of the role of visual comparisons in normal and pathological development. Frankel SA. **Psychoanal Study Child** 1996;51:455–74

Relation between body height and self–reported myocardial infarction in Germany. Helmert U, et al. **Rev Environ Health** 1997 Apr–Jun;12(2):125–30

Height changes among chronic low back pain patients during intense physical exercise. Hupli M, et al. **Scand J Med Sci Sports** 1997 Feb;7(1):32–7

Changes in physical characteristics and body composition during 5–year follow–up in 75– and 80–year–old men and women. Suominen H. **Scand J Soc Med Suppl** 1997; 53:19–24

Height and weight as a reflection of the nutritional situation of school–aged children working and living in the streets of Jakarta. Gross R, et al. **Soc Sci Med** 1996 Aug; 43(4):453–8

Growth status of homeless Nepali boys: do they differ from rural and urban controls? Panter–Brick C, et al. **Soc Sci Med** 1996 Aug;43(4):441–51

Growth and height in children after liver transplantation. Jara P, et al. **Transpl Int** 1996;9 Suppl 1:S160–3

Should excessive height and weight differences between the kidney donor and recipient be avoided? Cho YW, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):104–5

Anthropometric measures as a predictor of cephalopelvic disproportion. Burgess HA. **Trop Doct** 1997 Jul;27(3):135–8

Correlation between the postmortem stature and the dried limb–bone lengths of Korean adult males. Choi BY, et al. **Yonsei Med J** 1997 Apr;38(2):79–85

Secular changes of body height and mass in the children and adolescents of Lódź. Stolarczyk H, et al. **Z Morphol Anthropol** 1996 Sep;81(2):167–77

[Fetal growth from the AUDIPOG study. I. Establishment of reference curves] Mamelle N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):61–70 (37 ref.) (Eng. Abstr.) **(Fre)**

[Precision of glomerular filtration estimation by height/creatinine ratio in the child] Cattaneo F, et al. **Nephrologie** 1996;17(6):329–32 (Eng. Abstr.) **(Fre)**

[Correlation between physical development and dentition based on the Jena Longitudinal Study] Kromeyer K, et al. **Anthropol Anz** 1996 Sep;54(3):255–66 (Eng. Abstr.) **(Ger)**

[Analysis of a 1992 birth sample in Germany. 1: New percentile values of the body weight of newborn infants] Voigt M, et al. **Geburtshilfe Frauenheilkd** 1996 Oct; 56(10):550–8 (Eng. Abstr.) **(Ger)**

[Effect of dietary measures on body weight and height of children with phenylketonuria in East Germany] Bührdel P, et al. **Klin Padiatr** 1997 Jan–Feb;209(1):26–9 (Eng. Abstr.) **(Ger)**

[Effect of changed conditions on body height and body weight of preschool children in Jena] Kromeyer K, et al. **Z Morphol Anthropol** 1995 Dec;81(1):91–100 (Eng. Abstr.) **(Ger)**

[Final body height affecting factors in Turner syndrome] Ságodi L, et al. **Orv Hetil** 1997 Aug 3;138(31):1953–6 (Eng. Abstr.) **(Hun)**

[Height: healthy, strong and sexy?] Schioldborg P. **Tidsskr Nor Laegeforen** 1996 Dec 10;116(30):3593 **(Nor)**

[Adult stature prediction in boys according to the Khamis–Roche method and proposed regression equations] Zarów R. **Pediatr Pol** 1996 Sep;71(9):801–6 (Eng. Abstr.) **(Pol)**

[Craniocerebral imaging in children with short stature] Barros L, et al. **Acta Med Port** 1997 May;10(5):361–5 (Eng. Abstr.) **(Por)**

[The diagnosis of human sex and body height from fragmented bone remains (Methodological Recommendations No. 94/267 approved by the Ministry of Health and the Medical Industry of Russia 3 July 95)] Zviagin VN, et al. **Sud Med Ekspert** 1997 Jan–Mar; 40(1):24–31 **(Rus)**

[Analysis of the occurrence of degenerative changes in the spinal column in military tank personnel in relation their body height] Maksimović M. **Vojnosanit Pregl** 1996 Jul–Aug;53(4):275–9 (Eng. Abstr.) **(Scr)**

[Final height in patients with Turner syndrome treated by growth hormone (GH) (letter)] Ruibal Francisco JL, et al. **An Esp Pediatr** 1997 May;46(5):526–8 **(Spa)**

[A problem of significance (editorial; comment)] Díez JJ. **Med Clin (Barc)** 1996 Nov 23;107(18):698–701. Comment on: Med Clin (Barc) 1996 Nov 23;107(18):681–92. **(Spa)**

[Improvement of expected and final height in girls with central precocious puberty treated with gonadotropin releasing hormone analogues (see comments)] Gómez F, et al. **Med Clin (Barc)** 1996 Nov 23;107(18):681–4 (Eng. Abstr.). Comment in: Med Clin (Barc) 1996 Nov 23;107(18):698–701. **(Spa)**

[Adult height, pattern of growth and pubertal development in patients with congenital adrenal hyperplasia, salt losing form] Gussinyé M, et al. **Med Clin (Barc)** 1997 Jan 25; 108(3):87–90 (Eng. Abstr.) **(Spa)**

[Validity of self–notified measures of weight and height in the estimation of obesity prevalence (letter; comment)] Ramalle–Gómara E, et al. **Med Clin (Barc)** 1997 May 10; 108(18):716. Comment on: Med Clin (Barc) 1996 May 18;106(19):725–9. **(Spa)**

[New height and weight standards for the middle aged and aged. Weight increases more than height] Björkelund C, et al. **Lakartidningen** 1997 Jan 29;94(5):332–5 (Eng. Abstr.) **(Swe)**

[New reference values for child development. Body height has increased 1–2 cm, body weight 1–2 kg] Lindgren G, et al. **Lakartidningen** 1997 Aug 27;94(35):2915–8 **(Swe)**

DRUG EFFECTS

Variable effect of growth hormone on growth and final adult height in Scottish patients with Turner's syndrome. Chu CE, et al. **Acta Paediatr** 1997 Feb;86(2):160–4

Growth hormone in combination with anabolic steroids in patients with Turner syndrome: effect on bone maturation and final height. Haeusler G, et al. **Acta Paediatr** 1996 Dec; 85(12):1408–14

Effect of clonidine on the height of a child with glycogen storage disease type VI: a 13 year follow–up study. Asami T, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):524–8

Growth hormone treatment of short children born small for gestational age or with Silver–Russell syndrome: results from KIGS (Kabi International Growth Study), including the first report on final height. Ranke MB, et al. **Acta Paediatr Suppl** 1996 Oct;417:18–26

Approach to predicting the growth response during growth hormone treatment. Ranke MB, et al. **Acta Paediatr Suppl** 1996 Oct;417:64–5

Preliminary validation of a prediction model for the short–term growth response to growth hormone therapy in children with idiopathic short stature. Spagnoli A, et al. **Acta Paediatr Suppl** 1996 Oct;417:66–8

Growth and growth hormone therapy in children with achondroplasia: a two–year experience. Stamoyannou L, et al. **Am J Med Genet** 1997 Oct 3;72(1):71–6

Long–term results of growth hormone treatment in France in children of short stature: population, register based study [see comments] Coste J, et al. **BMJ** 1997 Sep 20; 315(7110):708–13. Comment in: BMJ 1997 Sep 20;315(7110):692–3.

Collagen formation and degradation increase during growth hormone therapy in children. Vihervuori E, et al. **Bone** 1997 Feb;20(2):133–8

Desensitization from long–term intranasal treatment with hexarelin does not interfere with the biological effects of this growth hormone–releasing peptide in short children. Klinger B, et al. **Eur J Endocrinol** 1996 Jun;134(6):716–9

Clinical trials of GH treatment in patients with Turner's syndrome in Japan––a consideration of final height. The Committee for the Treatment of Turner's Syndrome. Takano K, et al. **Eur J Endocrinol** 1997 Aug;137(2):138–45

Non–classical 21–hydroxylase deficiency in infancy and childhood: the effect of time of initiation of therapy on puberty and final height. Weintrob N, et al. **Eur J Endocrinol** 1997 Feb;136(2):188–95

Final height outcome in girls with Turner syndrome treated with a combination of low dose oestrogen and oxandrolone. Bareille P, et al. **Eur J Pediatr** 1997 May;156(5):358–62

Final height of girls with central precocious puberty, untreated versus treated with cyproterone acetate or GnRH analogue. A comparative study with re–evaluation of predictions by the Bayley–Pinneau method. Kauli R, et al. **Horm Res** 1997;47(2):54–61

Final height in Turner syndrome patients treated with growth hormone. Pasquino AM, et al. **Horm Res** 1996;46(6):269–72

Attained adult height after childhood asthma: effect of glucocorticoid therapy. Silverstein MD, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):466–74

Growth deficits in ADHD children revisited: evidence for disorder–associated growth delays? Spencer TJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1460–9

Adult height in growth hormone (GH)–deficient children treated with biosynthetic GH. The Genentech Growth Study Group. Blethen SL, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):418–20

The short–term effects of growth hormone therapy on height velocity and cardiac ventricular wall thickness in children with Noonan's syndrome. Cotterill AM, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2291–7

Clinical review 89: Small as fetus and short as child: from endogenous to exogenous growth hormone. de Zegher F, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2021–6

Growth response to growth hormone (GH) treatment relates to serum insulin–like growth factor I (IGF–I) and IGF–binding protein–3 in short children with various GH secretion capacities. Swedish Study Group for Growth Hormone Treatment. Kriström B, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2889–98

Growth after discontinuation of recombinant human growth hormone therapy in children with chronic renal insufficiency. The Genentech Cooperative Study Group. Fine RN, et al. **J Pediatr** 1996 Dec;129(6):883–91

Prediction of the outcome of growth hormone provocative testing in short children by measurement of serum levels of insulin–like growth factor I and insulin–like growth factor binding protein 3 [see comments] Juul A, et al. **J Pediatr** 1997 Feb;130(2):197–204. Comment in: J Pediatr 1997 Feb;130(2):172–4.

Unfavorable effects of growth hormone therapy on the final height of boys with short stature not caused by growth hormone deficiency [see comments] Kawai M, et al. **J Pediatr** 1997 Feb;130(2):205–9. Comment in: J Pediatr 1997 Feb;130(2):172–4.

Treatment and disease effects on short–term growth and adult height in children and adolescents with 21–hydroxylase deficiency. Hauffa BP, et al. **Klin Padiatr** 1997 Mar–Apr; 209(2):71–7

Anabolic effect of biosynthetic growth hormone in cystic fibrosis patients. Huseman CA, et al. **Pediatr Pulmonol** 1996 Aug;22(2):90–5

Spontaneous growth and response to growth hormone treatment in children with growth hormone deficiency and idiopathic short stature. Wit JM, et al. **Pediatr Res** 1996 Feb;39(2):295–302 (79 ref.)

[Endocrinologic after–care of brain tumor patients: initial retrospective analysis of HIT–study documented auxologic and endocrine parameters] Dörr HG, et al. **Klin Padiatr** 1996 Jul–Aug;208(4):197–204 (Eng. Abstr.) **(Ger)**

[Possibilities to increase the efficacy of growth hormone therapy in Turner syndrome] Ságodi L, et al. **Orv Hetil** 1997 Jun 8;138(23):1501–5 (36 ref.) (Eng. Abstr.) **(Hun)**

ETHNOLOGY

Height and social class in male adolescents from different ethnic backgrounds in Israel. Lusky A, et al. **Isr J Med Sci** 1997 Feb;33(2):117–22

GENETICS

Identification of a growth hormone mutation responsible for short stature. Chihara K. **Acta Paediatr Suppl** 1996 Oct; 417:49–50

An examination of the relationship between foot length, foot breath, ball girth, height and weight of Turkish university students aged between 17 and 25. Anil A, et al. **Anthropol Anz** 1997 Mar;55(1):79–87

The genetic contribution to stature. Preece MA. **Horm Res** 1996;45 Suppl 2:56–8 (7 ref.)

FISH–deletion mapping defines a 270–kb short stature critical interval in the pseudoautosomal region PAR1 on human sex chromosomes. Rao E, et al. **Hum Genet** 1997 Aug; 100(2):236–9

Height and social class in male adolescents from different ethnic backgrounds in Israel. Lusky A, et al. **Isr J Med Sci** 1997 Feb;33(2):117–22

The Y specific growth gene(s): how does it promote stature? Ogata T, et al. **J Med Genet** 1997 Apr;34(4):323–5

Partial growth–hormone insensitivity: the role of growth–hormone receptor mutations in idiopathic short stature. Goddard AD, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S51–5

A dominant–negative mutation of the growth hormone receptor causes familial short stature [letter] Ayling RM, et al. **Nat Genet** 1997 May;16(1):13–4

Pseudoautosomal deletions encompassing a novel homeobox gene cause growth failure in idiopathic short stature and Turner syndrome [see comments] Rao E, et al. **Nat Genet** 1997 May;16(1):54–63. Comment in: Nat Genet 1997 May;16(1):3–4.

Growing interest in Turner syndrome [news; comment] Zinn AR. **Nat Genet** 1997 May;16(1):3–4. Comment on: Nat Genet 1997 May;16(1):54–63.

PHYSIOLOGY

Growth and pubertal development in patients with meningomyelocele: a retrospective analysis. Trollmann R, et al. **Acta Paediatr** 1996 Jan;85(1):76–80

Adult height and menarcheal age of young women in Greece. Georgiadis E, et al. **Ann Hum Biol** 1997 Jan–Feb;24(1):55–9

Secular changes in standing height, sitting height and sexual maturation of Chinese–the Hong Kong Growth Study, 1993. Leung SS, et al. **Ann Hum Biol** 1996 Jul–Aug; 23(4):297–306

Growth differences associated with compulsive and stereotyped behavior disorders in adults with mental retardation. Powell SB, et al. **Anxiety** 1996;2(2):90–4

Spinal shrinkage due to +Gz forces. Hämäläinen O, et al. **Aviat Space Environ Med** 1996 Jul;67(7):659–61

Growth in Italian children. Nicoletti I, et al. **Bibl Nutr Dieta** 1996;(53):60–73 (13 ref.)

Reduced final height and indications for insulin resistance in 20 year olds born small for gestational age: regional cohort study. Leger J, et al. **BMJ** 1997 Aug 9; 315(7104):341–7

The relationship between anthropometric measurements and fractures in women. Gunnes M, et al. **Bone** 1996 Oct; 19(4):407–13

Adult height and diabetic nephropathy. [letter] Yudkin JS. **Diabet Med** 1996 Apr;13(4):390

Prediction of the outcome of growth at 2 years of age in neonates with intra–uterine growth retardation. Leger J, et al. **Early Hum Dev** 1997 May 28;48(3):211–23

The effects of age, height and gender on the somatosensory evoked potentials in man. Akyüz G, et al. **Electromyogr Clin Neurophysiol** 1996 Jul–Aug;36(5):311–5

Somatosensory cortical and dermatome evoked potentials: a study conducted on 60 normal subjects. Results and their correlation relative to height and age. Gagnard–Landra C. **Electromyogr Clin Neurophysiol** 1996 Apr–May; 36(3):131–44

24–hour secretion of growth hormone (GH), insulin–like growth factors–I and –II (IGF–I, –II), prolactin (PRL) and thyrotropin (TSH) in young adults of normal and tall stature. Stratakis CA, et al. **Endocr Res** 1996 Aug; 22(3):261–76

Studies of spinal shrinkage to evaluate low–back loading in the workplace. McGill SM, et al. **Ergonomics** 1996 Jan; 39(1):92–102

A mathematical approach for estimating reference values for weight–for–age, weight–for–height and height–for–age. Martins SJ, et al. **Growth Dev Aging** 1997 Spring;61(1):3–10

Factors determining pubertal growth and final height in growth hormone treatment of idiopathic growth hormone deficiency. Analysis of 195 Patients of the Kabi Pharmacia International Growth Study. Ranke MB, et al. **Horm Res** 1997;48(2):62–71

Short– and long–term (final height) growth responses to growth hormone (GH) therapy in patients with Turner syndrome: correlation of growth response to stimulated GH levels, spontaneous GH secretion, and karyotype. Schmitt K, et al. **Horm Res** 1997;47(2):67–72

Dicrotic wave and anthropometry [letter] Hussain S, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):187–8

Use of weight–for–height indices in children to predict adult overweight: the Bogalusa Heart Study. Valdez R, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):715–21

Effect of chronic treatment with biosynthetic growth hormone (GH) on the GH response to double GH–releasing hormone administration in children with short stature. Scacchi M, et al. **J Endocrinol Invest** 1997 Feb;20(2):72–6

Congenital hypothyroidism: auxological retrospective study during the first six years of age. Siragusa V, et al. **J Endocrinol Invest** 1996 Apr;19(4):224–9

National Cooperative Growth Study substudy VIII: a new look at the natural history of short stature. Stephure DK, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S81–2

Constitutional delay in growth and puberty: a comparison of final height achieved between treated and untreated children. Ferrández Longás A, et al. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:345–57 (39 ref.)

Assessment of stature in spinal cord injury. Garshick E, et al. **J Spinal Cord Med** 1997 Jan;20(1):36–42

Age–and height–dependent changes of amplitude and latency of somatosensory evoked potentials in children and young adults with Down's syndrome. Ferri R, et al. **Neurophysiol Clin** 1996;26(5):321–7

Limitations to body length/serum creatinine ratio as an estimate of glomerular filtration in children. Seikaly MG, et al. **Pediatr Nephrol** 1996 Dec;10(6):709–11

Growth of patients with 21–hydroxylase deficiency: an analysis of the factors influencing adult height. Jääskeläinen J, et al. **Pediatr Res** 1997 Jan;41(1):30–3

[Median nerve somatosensory evoked potentials––studies on latency variability as a function of subject height and age] Kitamura K, et al. **Rinsho Byori** 1996 Mar;44(3):274–80 (Eng. Abstr.) **(Jpn)**

[Risk factors of short stature in Chilean school children from rural areas of high social vulnerability] Amigo H, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):97–102 (Eng. Abstr.) **(Spa)**

BODY, HUMAN see **HUMAN BODY**

BODY IMAGE

Microsomatoagnosia: whole body schema illusion as part of an epileptic aura. Leker RR, et al. **Acta Neurol Scand** 1996 Dec;94(6):383–5

A conceptual and quantitative analysis of 178 historical cases of dysmorphophobia. Berrios GE, et al. **Acta Psychiatr Scand** 1996 Jul;94(1):1–7

Body/self awareness and interpersonal communications: fundamental components of reproductive health awareness. Aumack–Yee K. **Adv Contracept** 1997 Jun–Sep; 13(2–3):319–23 (6 ref.)

Our bodies, our selves: treating the somatic expressions of trauma with ego–state therapy. Phillips M. **Am J Clin Hypn** 1995 Oct;38(2):109–21

Carolyn's feet. Resta RG. **Am J Med Genet** 1997 Oct 3; 72(1):1–2

Plastic surgery: the rainbow profession. Edgerton MT. **Ann Plast Surg** 1997 Mar;38(3):197–201

Body dissatisfaction as a mediator of the relationship between dietary restraint and bulimic eating patterns. Ricciardelli LA, et al. **Appetite** 1997 Aug;29(1):43–54

Weight perception of adolescent dancing school students [letter; comment] Silverman JA. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1221. Comment on: Arch Pediatr Adolesc Med 1996 Feb;150(2):187–90.

The self–schema model: a theoretical approach to the self–concept in eating disorders. Stein KF. **Arch Psychiatr Nurs** 1996 Apr;10(2):96–109 (114 ref.)

A case of unrelenting pursuit of castration. Leung CM, et al. **Aust N Z J Psychiatry** 1996 Feb;30(1):150–2

A review of cognitive behavioral and pharmacological treatment of body dysmorphic disorder. Neziroglu F, et al. **Behav Modif** 1997 Jul;21(3):324–40 (50 ref.)

Bias in interpretation of ambiguous scenarios in eating disorders. Cooper M. **Behav Res Ther** 1997 Jul;35(7):619–26

Body dysmorphic disorder: a preliminary evaluation of treatment and maintenance using exposure with response prevention. McKay D, et al. **Behav Res Ther** 1997 Jan; 35(1):67–70

Development of the body dysmorphic disorder examination. Rosen JC, et al. **Behav Res Ther** 1996 Sep;34(9):755–66

Body image disturbances and their change with videofeedback in anorexia nervosa. Rushford N, et al. **Behav Res Ther** 1997 May;35(5):389–98

Body dysmorphic disorder: a cognitive behavioural model and pilot randomised controlled trial. Veale D, et al. **Behav Res Ther** 1996 Sep;34(9):717–29

Bodily shame in relation to abuse in childhood and bulimia: a preliminary investigation. Andrews B. **Br J Clin Psychol** 1997 Feb;36 (Pt 1):41–9

The influence of methodological differences on the outcome of body size estimation studies in anorexia nervosa. Smeets MA, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):263–77

Dysmorphophobia: recent developments of interest to the maxillofacial surgeon. Cunningham SJ, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):368–74 (26 ref.)

Body dysmorphic disorder [letter; comment] Feinmann C, et al. **Br J Psychiatry** 1997 Jan;170:90. Comment on: Br J Psychiatry 1996 Aug;169(2):196–201.

Body dysmorphic disorder. A survey of fifty cases [see comments] Veale D, et al. **Br J Psychiatry** 1996 Aug; 169(2):196–201. Comment in: Br J Psychiatry 1997 Jan;170:90.

About changing faces: promoting a good quality of life for people with visible disfigurements. Partridge J. **Burns** 1997 Mar;23(2):186–7

Research into the lifeworld of physically disabled children. Mulderij KJ. **Child Care Health Dev** 1996 Sep;22(5):311–22

Dermatologic nondisease. Cotterill JA. **Dermatol Clin** 1996 Jul;14(3):439–45 (68 ref.)

Body dysmorphic disorder. Cotterill JA. **Dermatol Clin** 1996 Jul;14(3):457–63 (13 ref.)

Pelvic exenteration: effects of surgery on quality of life and body image––a prospective longitudinal study. Hawighorst–Knapstein S, et al. **Gynecol Oncol** 1997 Sep; 66(3):495–500

Body image in obese women before, during, and after weight loss treatment. Foster GD, et al. **Health Psychol** 1997 May; 16(3):226–9

Fluvoxamine in the treatment of body dysmorphic disorder (dysmorphophobia). Perugi G, et al. **Int Clin Psychopharmacol** 1996 Dec;11(4):247–54

Truly late onset of eating disorders: a study of 11 cases averaging 60 years of age at presentation. Beck D, et al. **Int J Eat Disord** 1996 Dec;20(4):389–95

Is body focus restricted to self–evaluation? Body focus in the evaluation of self and others. Beebe DW, et al. **Int J Eat Disord** 1996 Dec;20(4):415–22

The influence of sexual orientation on body dissatisfaction in adult men and women. Beren SE, et al. **Int J Eat Disord** 1996 Sep;20(2):135–41

Relationship of weight, body dissatisfaction, and self–esteem in African American and white female dieters. Caldwell MB, et al. **Int J Eat Disord** 1997 Sep;22(2):127–30

Effect of mood and food cues on body image in women with bulimia and controls. Carter FA, et al. **Int J Eat Disord** 1996 Jul;20(1):65–76

The nature and extent of body–image disturbances in anorexia nervosa and bulimia nervosa: a meta–analysis. Cash TF, et al. **Int J Eat Disord** 1997 Sep;22(2):107–25

Sexual orientation and prevalence of body dissatisfaction and eating disordered behaviors: a population–based study of adolescents. French SA, et al. **Int J Eat Disord** 1996 Mar; 19(2):119–26

Restrained and unrestrained females' positive and negative associations with specific foods and body parts. Gattellari M, et al. **Int J Eat Disord** 1997 May;21(4):377–83

Impaired color naming of food and body shape words: weight phobia or distinct affective state? Green MW, et al. **Int J Eat Disord** 1997 Jan;21(1):77–82

Global self–esteem as contingent on body satisfaction among patients with bulimia nervosa: lack of diagnostic specificity? Joiner TE Jr, et al. **Int J Eat Disord** 1997 Jan;21(1):67–76

Effects of coping style and negative body image on eating disturbance. Koff E, et al. **Int J Eat Disord** 1997 Jul; 22(1):51–6

Disordered eating and its psychosocial correlates among Chinese adolescent females in Hong Kong. Lee AM, et al. **Int J Eat Disord** 1996 Sep;20(2):177–83

Body dissatisfaction among Chinese undergraduates and its implications for eating disorders in Hong Kong. Lee S, et al. **Int J Eat Disord** 1996 Jul;20(1):77–84

Testing a dual–process family model in understanding the development of eating pathology: a structural equation modeling analysis. Leung F, et al. **Int J Eat Disord** 1996 Dec;20(4):367–75

Perfectionism in weight–concerned and –unconcerned women: an experimental approach. Pliner P, et al. **Int J Eat Disord** 1996 May;19(4):381–9

Body figure perceptions and eating attitudes among Australian schoolchildren aged 8 to 12 years. Rolland K, et al. **Int J Eat Disord** 1997 Apr;21(3):273–8

Body Shape Questionnaire: studies of validity and reliability. Rosen JC, et al. **Int J Eat Disord** 1996 Nov;20(3):315–9

Body image assessment and treatment in controlled studies of eating disorders. Rosen JC. **Int J Eat Disord** 1996 Dec; 20(4):331–43 (80 ref.)

Disordered eating patterns, body image, self–esteem, and physical activity in preadolescent school children. Sands R, et al. **Int J Eat Disord** 1997 Mar;21(2):159–66

Are obese adolescent boys ignoring an important health risk? Steen SN, et al. **Int J Eat Disord** 1996 Nov;20(3):281–6

Explanations of body image disturbance: a test of maturational status, negative verbal commentary, social comparison, and sociocultural hypotheses. Stormer SM, et al. **Int J Eat Disord** 1996 Mar;19(2):193–202

A re–examination of body image distortion: evidence against a sensory explanation. Szymanski LA, et al.

Int J Eat Disord 1997 Mar;21(2):175–80
Role of television in adolescent women's body dissatisfaction and drive for thinness. Tiggemann M, et al.
Int J Eat Disord 1996 Sep;20(2):199–203
Development of a body image assessment procedure for children and preadolescents. Veron-Guidry S, et al.
Int J Eat Disord 1996 Nov;20(3):287–93
Overt and covert sexual abuse: relationship to body image and eating disturbance. Weiner KE, et al.
Int J Eat Disord 1997 Nov;22(3):273–84
Body dissatisfaction and sexuality among women with bulimia nervosa. Wiederman MW, et al.
Int J Eat Disord 1997 May;21(4):361–5
Eating disturbance and body image: a comparison of a community sample of adult black and white women. Wilfley DE, et al. **Int J Eat Disord** 1996 Dec;20(4):377–87
Effect of weak electromagnetic fields on body image perception in patients with multiple sclerosis. Sandyk R. **Int J Neurosci** 1996 Jul;86(1–2):79–85
Estimated energy balance in female university students: differences with respect to body mass index and concern about body weight. Ortega RM, et al.
Int J Obes Relat Metab Disord 1996 Dec;20(12):1127–9
A 10-year longitudinal study of body weight, dieting, and eating disorder symptoms. Heatherton TF, et al.
J Abnorm Psychol 1997 Feb;106(1):117–25
Perfectionism, perceived weight status, and bulimic symptoms: two studies testing a diathesis-stress model. Joiner TE Jr, et al. **J Abnorm Psychol** 1997 Feb; 106(1):145–53
Black–white differences in body size perceptions and weight management practices among adolescent females. Neff LJ, et al. **J Adolesc Health** 1997 Jun;20(6):459–65
Body dissatisfaction among Hispanic and Asian–American girls [letter; comment] Pumariega AJ. **J Adolesc Health** 1997 Jul;21(1):1. Comment on: J Adolesc Health 1996 Dec;19(6):384–93.
Body dysmorphic disorder [letter] Albertini RS, et al.
J Am Acad Child Adolesc Psychiatry 1996 Nov; 35(11):1425–6
SSRI for body dysmorphic disorder [letter] Heimann SW.
J Am Acad Child Adolesc Psychiatry 1997 Jul;36(7):868
Body dysmorphic disorder [letter; comment] Jerome L.
J Am Acad Child Adolesc Psychiatry 1996 May;35(5):559 . Comment on: J Am Acad Child Adolesc Psychiatry 1995 Nov;34(11):1404–5.
Psychotherapy of the medically ill: the role of object relations in body image and grief. Bronheim H.
J Am Acad Psychoanal 1996 Fall;24(3):515–25
Sorority women's body size perceptions and their weight-related attitudes and behaviors. Schulken ED, et al. **J Am Coll Health** 1997 Sep;46(2):69–74
The pregnant mother and the body image of the daughter. Balsam RH. **J Am Psychoanal Assoc** 1996;44 Suppl:401–27
Comparison of clinical characteristics in obsessive-compulsive disorder and body dysmorphic disorder. McKay D, et al. **J Anxiety Disord** 1997 Jul–Aug; 11(4):447–54
Psychologic factors involved in the decision to undergo reconstructive surgery after burn injury. Heinberg LJ, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):374–80
Who chooses to undergo reconstructive surgery? Empirically confirming the subjectivity and social basis of body image. Pruzinsky T. **J Burn Care Rehabil** 1997 Jul–Aug; 18(4):372–4
Perception of body shapes by anorexics and mature and teenage females. Baluch B, et al. **J Clin Psychol** 1997 Feb; 53(2):167–75
Childhood leukemia and body image: interview reveals impairment not found with a questionnaire. Puukko LR, et al. **J Clin Psychol** 1997 Feb;53(2):133–7
Age differences in the ability of chimpanzees to distinguish mirror-images of self from video images of others. Eddy TJ, et al. **J Comp Psychol** 1996 Mar;110(1):38–44
Body consciousness, illness-related impairment, and patient adherence in hemodialysis. Christensen AJ, et al.
J Consult Clin Psychol 1996 Feb;64(1):147–52
Weight concerns influence the development of eating disorders: a 4-year prospective study. Killen JD, et al.
J Consult Clin Psychol 1996 Oct;64(5):936–40
Gender-related differences in body dysmorphic disorder (dysmorphophobia). Perugi G, et al. **J Nerv Ment Dis** 1997 Sep;185(9):578–82
Gender differences in body dysmorphic disorder. Phillips KA, et al. **J Nerv Ment Dis** 1997 Sep;185(9):570–7
Does right parietal cortex and vestibular dysfunction underlie body image distortion? [letter; comment] Tomasino SJ.
J Nerv Ment Dis 1996 Dec;184(12):758. Comment on: J Nerv Ment Dis 1996 Apr;184(4):213–9.
Body image concepts differ by age and sex in an Ojibway–Cree community in Canada. Gittelsohn J, et al.
J Nutr 1996 Dec;126(12):2990–3000
When perception isn't reality [editorial] Laskin DM.
J Oral Maxillofac Surg 1997 May;55(5):439
Psychosocial functioning of children, adolescents, and adults following hypospadias surgery: a comparative study. Mureau MA, et al. **J Pediatr Psychol** 1997 Jun;22(3):371–87
Body image and psychosocial adjustment in adolescent cancer survivors. Pendley JS, et al. **J Pediatr Psychol** 1997 Feb;22(1):29–43
Development of a sociocultural measure of young women's experiences with body weight and shape. Delaney ME, et al. **J Pers Assess** 1997 Aug;69(1):63–80
Body image in adulthood: a projective approach. Hayslip B Jr, et al. **J Pers Assess** 1997 Jun;68(3):628–49
Gender schema and gender role discrepancy as correlates of body image. Borchert J, et al. **J Psychol** 1996 Sep; 130(5):547–59
Weight fluctuation, bulimic symptoms, and self-efficacy for control of eating. Toray T, et al. **J Psychol** 1997 Jul; 131(4):383–92
Body image in secondary amenorrhea. Orlandi E, et al.
J Psychosom Obstet Gynaecol 1997 Mar;18(1):45–52
Body image, maternal fetal attachment, and breast feeding. Foster SF, et al. **J Psychosom Res** 1996 Aug;41(2):181–4
Androgenic--anabolic steroids and body dysmorphia in young men. Wroblewska AM. **J Psychosom Res** 1997 Mar; 42(3):225–34 (75 ref.)
Body image perception in female Mexican–American adolescents. Guinn B, et al. **J Sch Health** 1997 Mar; 67(3):112–5
Black and white adolescent females' perceptions of ideal body size. Parnell K, et al. **J Sch Health** 1996 Mar;66(3):112–8
Perceived changes in sexual functioning and body image following weight loss in an obese female population: a pilot study. Werlinger K, et al. **J Sex Marital Ther** 1997 Spring; 23(1):74–8
Ethnic differences in women's body satisfaction: an experimental investigation. Henriques GR, et al.
J Soc Psychol 1996 Dec;136(6):689–97
Perceived weight of other persons. Rudin JP.
J Soc Psychol 1996 Dec;136(6):719–26
Skin-color preferences and body satisfaction among South Asian–Canadian and European–Canadian female university students. Sahay S, et al. **J Soc Psychol** 1997 Apr; 137(2):161–71
Addressing women's concerns about weight gain due to smoking cessation. Perkins KA, et al.
J Subst Abuse Treat 1997 Mar–Apr;14(2):173–82 (65 ref.)
Is big still beautiful in Polynesia? Ben-Tovim DI. **Lancet** 1996 Oct 19;348(9034):1047–8
Body experience differences of women with preterm labor. Richardson P. **Matern Child Nurs J** 1996 Jan–Mar; 24(1):5–17
Reflections on Amazonian anthropologies of the body [comment] Conklin BA. **Med Anthropol Q** 1996 Sep; 10(3):373–5; discussion 378–80. Comment on: Med Anthropol Q 1996 Sep;10(3):319–41. Comment on: Med Anthropol Q 1996 Sep;10(3):347–72.
Blood and nerves revisited: menopause and the privatization of the body in a Newfoundland postindustrial fishery. Davis DL. **Med Anthropol Q** 1997 Mar;11(1):3–20; discussion 21–5 (44 ref.)
The body that knows: from Cashinahua epistemology to a medical anthropology of lowland South America [see comments] McCallum C. **Med Anthropol Q** 1996 Sep; 10(3):347–72. Comment in: Med Anthropol Q 1996 Sep;10(3):373–5; discussion 378–80.
Life adjustment correlates of physical self-concepts. Sonstroem RJ, et al. **Med Sci Sports Exerc** 1996 May; 28(5):619–25
A body to die for. Davis GJ. **N C Med J** 1996 May–Jun; 57(3):140
Coding of modified body schema during tool use by macaque postcentral neurones. Iriki A, et al. **Neuroreport** 1996 Oct 2;7(14):2325–30
Differences in body image and depression among obese women with and without binge eating disorder. Mussell MP, et al. **Obes Res** 1996 Sep;4(5):431–9
Psychosocial concerns and health-compromising behaviors among overweight and nonoverweight adolescents. Neumark-Sztainer D, et al. **Obes Res** 1997 May;5(3):237–49
Comparison of attitudes and behaviors related to nutrition, body size, dieting, and hunger in Russian, black-American, and white-American adolescents. Stevens J, et al.
Obes Res 1997 May;5(3):227–36
Perception of body shape in elderly white and black men. Abadie BR, et al. **Percept Mot Skills** 1996 Oct;83(2):449–50
Influence of preconception on body image. Brodie DA, et al. **Percept Mot Skills** 1996 Oct;83(2):571–7
Should body-image scales designed for adults be used with adolescents? Byrne NM, et al. **Percept Mot Skills** 1996 Jun; 82(3 Pt 1):747–53
Correlations of body composition and body-image assessments of adolescents. Byrne NM, et al.
Percept Mot Skills 1997 Jun;84(3 Pt 2):1330
Physical self-perceptions, aerobic capacity and physical activity in male and female members of a corporate health and fitness club. Daley AJ, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):1075–82
Perception of body shape by underweight average, and overweight men and women. Demarest J, et al.
Percept Mot Skills 1996 Oct;83(2):569–70
Eating disorder and body image. Duva D, et al.
Percept Mot Skills 1997 Aug;85(1):58
Social physique anxiety: personality constructs, motivations, exercise attitudes, and behaviors. Frederick CM, et al.
Percept Mot Skills 1996 Jun;82(3 Pt 1):963–72
A new visual image rating scale for females: correlations with measures of relative fatness, weight dissatisfaction, and body-esteem. Goldberg JP, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1075–84
Effects of wellness, fitness, and sport skills programs on body image and lifestyle behaviors. Koff E, et al.
Percept Mot Skills 1997 Apr;84(2):555–62
Perception of body size and body satisfaction in recovered anorexic women: comparison with restrained and unrestrained eaters. Lautenbacher S, et al.
Percept Mot Skills 1997 Jun;84(3 Pt 2):1331–42
Perceived somatotype as indicator of accuracy of body image, a method using somatotype attitudinal distance. Sobral F, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1107–10
Principal components analysis of the Physical Self-Efficacy Scale for a black sample. Sumerlin JR, et al.
Percept Mot Skills 1996 Aug;83(1):35–40
Disordered eating and unhealthy weight reduction practices among adolescent females. Grigg M, et al. **Prev Med** 1996 Nov–Dec;25(6):748–56
The role of passivity in the relationship to the body during adolescence. Laufer ME. **Psychoanal Study Child** 1996; 51:348–64
Sexual assault and body esteem. Kulkoski K, et al.
Psychol Rep 1997 Feb;80(1):347–50
Does self-concept depend on body image? A gender analysis. Stowers DA, et al. **Psychol Rep** 1996 Apr;78(2):643–6
A severity rating scale for body dysmorphic disorder: development, reliability, and validity of a modified version of the Yale-Brown Obsessive Compulsive Scale. Phillips KA, et al. **Psychopharmacol Bull** 1997;33(1):17–22
Impaired body image of young female survivors of childhood leukemia. Puukko LR, et al. **Psychosomatics** 1997 Jan–Feb; 38(1):54–62
Body-size estimation in eating disorders using video distortion on a life-size screen. Probst M, et al.
Psychother Psychosom 1997;66(2):87–91
Reconsidering the status of anorexia nervosa as a western culture-bound syndrome. Lee S. **Soc Sci Med** 1996 Jan; 42(1):21–34
The (dis)embodied self in anorexia nervosa. Lester RJ.
Soc Sci Med 1997 Feb;44(4):479–89 (56 ref.)
Changes in self-concept and body image during alopecia induced cancer chemotherapy. Münstedt K, et al.
Support Care Cancer 1997 Mar;5(2):139–43
Violation in caring for the physically disabled. Lillestø B. **West J Nurs Res** 1997 Jun;19(3):282–96
Gender-identity, body-experience, sexuality, and the wish for having children in DES-daughters. Bekker MH, et al.
Women Health 1996;24(2):65–82
Women, the body and brand extension in medicine: cosmetic surgery and the paradox of choice. Gillespie R.
Women Health 1996;24(4):69–85
Body perception and emotional health in athletes: a study of female adolescents involved in aesthetic sports. Casper RC, et al. **World Rev Nutr Diet** 1997;82:134–47
[I see, I see what you don't see (body dysmorphic syndrome)] de Ridder AJ. **Ned Tijdschr Geneeskd** 1997 Feb 1; 141(5):225–7 (Eng. Abstr.) **(Dut)**
['I see, I see what you don't see' (body dysmorphic syndrome (letter)] van Alphen PJ, et al. **Ned Tijdschr Geneeskd** 1997 Apr 5;141(14):701–2 **(Dut)**
[Beautifying the breast] Le Gouès G.
Contracept Fertil Sex 1997 Jun;25(6):475–81 (31 ref.) (Eng. Abstr.) **(Fre)**
[Epicutaneous breast prosthesis after breast ablation] Münstedt K, et al. **Geburtshilfe Frauenheilkd** 1996 Jan; 56(1):8–12 (Eng. Abstr.) **(Ger)**
[Psychosocial aspects in total external ear reconstruction in patients with severe microtia] Siegert R, et al.
Laryngorhinootologie 1997 Mar;76(3):155–61 (Eng. Abstr.) **(Ger)**
[Physically experienced ego disturbances] Erkwoh R.
Nervenarzt 1996 Jul;67(7):552–7 (Eng. Abstr.) **(Ger)**
[Body image of patients with acute paranoid schizophrenia. A follow-up study] Röhricht F, et al. **Nervenarzt** 1996 Jul; 67(7):602–7 (Eng. Abstr.) **(Ger)**
[Validation of the FKB-20 as scale for the detection of body image distortions in psychosomatic patients] Clement U, et al. **Psychother Psychosom Med Psychol** 1996 Jul; 46(7):254–9 (Eng. Abstr.) **(Ger)**
[Body image disturbances in patients with anorexia nervosa 12 years after clinical consultation] Deter HC, et al.
Psychother Psychosom Med Psychol 1997 Jan;47(1):1–11 (Eng. Abstr.) **(Ger)**
[Therapeutic effects of the Feldenkrais method "awareness through movement" in patients with eating disorders] Laumer U, et al. **Psychother Psychosom Med Psychol** 1997 May;47(5):170–80 (Eng. Abstr.) **(Ger)**
[Symptom complex, prevalence of trauma and body image of psychiatric patients with self-injury behavior] Tameling A, et al. **Psychother Psychosom Med Psychol** 1996 Feb; 46(2):61–7 (Eng. Abstr.) **(Ger)**
[Television and eating disorders. Study of adolescent eating behavior] Verri AP, et al. **Minerva Pediatr** 1997 Jun; 49(6):235–43 (Eng. Abstr.) **(Ita)**
["Body psychosis": an interpretative hypothesis about some psychiatric disorders] Lorenzi P, et al.
Minerva Psichiatr 1996 Mar;37(1):21–8 (38 ref.) (Eng. Abstr.) **(Ita)**
[Description of a case of Cotard's syndrome] Sabbatini F, et al. **Minerva Psichiatr** 1996 Mar;37(1):35–7 (Eng. Abstr.) **(Ita)**
[Body dysmorphic disorder as an obsessive-compulsive spectrum disorder] Díaz Mársá M, et al.
Actas Luso Esp Neurol Psiquiatr Cienc Afines 1996 Nov–Dec;24(6):331–7 (35 ref.) (Eng. Abstr.) **(Spa)**

BODY LANGUAGE see **KINESICS**

BODY MASS INDEX

see related
SKINFOLD THICKNESS

Influence of body compartments on propofol induction dose in female patients. Chassard D, et al. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 1):889–91

Age, weight, body mass index and endometrial thickness in postmenopausal women [letter; comment] Andolf E, et al. **Acta Obstet Gynecol Scand** 1996 Oct;75(9):867–8. Comment on: Acta Obstet Gynecol Scand 1996 Feb;75(2):181–2.

Lifestyle factors and hip arthrosis. A case referent study of body mass index, smoking and hormone therapy in 503 Swedish women. Vingård E, et al. **Acta Orthop Scand** 1997 Jun;68(3):216–20

Impact of peritoneal dialysis modality on nutritional and biochemical parameters. Dumler F, et al. **Adv Perit Dial** 1996;12:298–301

Weight, height and body mass index distributions in geographically and ethnically diverse samples of older persons. Ad Hoc Committee on the Statistics of Anthropometry and Aging. Launer LJ, et al. **Age Ageing** 1996 Jul;25(4):300–6

Low–normal or excessive body mass index: newly identified and powerful risk factors for death and other complications with percutaneous coronary intervention. Ellis SG, et al. **Am J Cardiol** 1996 Sep 15;78(6):642–6

Maternal energy balance and lactation performance of Mesoamerindians as a function of body mass index. Barbosa L, et al. **Am J Clin Nutr** 1997 Sep;66(3):575–83

Evaluation of nutritional status by immunologic assessment in bulimia nervosa: influence of body mass index and vomiting episodes. Marcos A, et al. **Am J Clin Nutr** 1997 Aug;66(2):491S–497S

Prediction of percentage body fat from anthropometric measurements: comparison of New Zealand European and Polynesian young women [comment] Rush EC, et al. **Am J Clin Nutr** 1997 Jul;66(1):2–7. Comment on: Am J Clin Nutr 1997 Jul;66(1):26–32.

Relation of body mass and alcohol, nutrient, fiber, and caffeine intakes to blood pressure in the special intervention and usual care groups in the Multiple Risk Factor Intervention Trial. Stamler J, et al. **Am J Clin Nutr** 1997 Jan;65(1 Suppl):338S–365S

Relation of food and nutrient intakes to body mass in the special intervention and usual care groups in the Multiple Risk Factor Intervention Trial. Stamler J, et al. **Am J Clin Nutr** 1997 Jan;65(1 Suppl):366S–373S

Hypothesis concerning the U-shaped relation between body mass index and mortality. Allison DB, et al. **Am J Epidemiol** 1997 Aug 15;146(4):339–49

Distribution and association of chronic disease and mobility difficulty across four body mass index categories of African-American women. Clark DO, et al. **Am J Epidemiol** 1997 May 15;145(10):865–75

Body mass and 26-year risk of mortality among women who never smoked: findings from the Adventist Mortality Study. Lindsted KD, et al. **Am J Epidemiol** 1997 Jul 1; 146(1):1–11

Relation between body mass index and body fat in black population samples from Nigeria, Jamaica, and the United States. Luke A, et al. **Am J Epidemiol** 1997 Apr 1; 145(7):620–8

Re: "How useful is body mass index for comparison of body fatness across age, sex, and ethnic groups?" [letter; comment] Shen T. **Am J Epidemiol** 1997 Jan 1;145(1):82–3 . Comment on: Am J Epidemiol 1996 Feb 1;143(3):228–39.

Body mass index is associated with differential seasonal change in ambulatory blood pressure levels. Kristal-Boneh E, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1179–85

Body mass index as a correlate of postoperative complications and resource utilization. Thomas EJ, et al. **Am J Med** 1997 Mar;102(3):277–83

The Preterm Prediction Study: association of cesarean delivery with increases in maternal weight and body mass index. Brost BC, et al. **Am J Obstet Gynecol** 1997 Aug; 177(2):333–7; discussion 337–41

Lack of power [letter; comment] Fanning J. **Am J Obstet Gynecol** 1997 Feb;176(2):494–5. Comment on: Am J Obstet Gynecol 1996 Apr;174(4):1171–8; discussion 1178–9.

Genetics of adult body mass and maintenance of adult body mass in captive baboons (Papio hamadryas subspecies). Jaquish CE, et al. **Am J Primatol** 1997;42(4):281–8

Stable behaviors associated with adults' 10-year change in body mass index and likelihood of gain at the waist. Kahn HS, et al. **Am J Public Health** 1997 May;87(5):747–54

How muscle mass is part of the fabric of behavioral ecology in East African bovids (Madoqua, Gazella, Damaliscus, Hippotragus). Grand TI. **Anat Embryol (Berl)** 1997 Apr; 195(4):375–86

Relative weight and mortality in U.S. blacks and whites: findings from representative national population samples. Durazo-Arvizu R, et al. **Ann Epidemiol** 1997 Aug; 7(6):383–95

Development of the multiple metabolic syndrome in the ARIC cohort: joint contribution of insulin, BMI, and WHR. Liese AD, et al. **Ann Epidemiol** 1997 Aug; 7(6):407–16

Serum leptin levels in Mexican Americans and non-Hispanic whites: association with body mass index and cigarette smoking [see comments] Wei M, et al. **Ann Epidemiol** 1997 Feb;7(2):81–6. Comment in: Ann Epidemiol 1997 Feb;7(2):79–80.

Birthweight for length: ponderal index, body mass index or Benn index? Cole TJ, et al. **Ann Hum Biol** 1997 Jul–Aug; 24(4):289–98

Modelling the associations of BMI physical activity and diet with arterial blood pressure: some results from the Allied Dunbar National Fitness Survey. Nevill AM, et al. **Ann Hum Biol** 1997 May–Jun;24(3):229–47

The validity of body mass index for the assessment of adiposity in children with disease states. Warner JT, et al. **Ann Hum Biol** 1997 May–Jun;24(3):209–15

A predictive morphometric model for the obstructive sleep apnea syndrome. Kushida CA, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):581–7

Re: Reduction mammaplasty: an outcome analysis [letter; comment] Kuzon WM Jr. **Ann Plast Surg** 1996 Sep; 37(3):341. Comment on: Ann Plast Surg 1996 Oct;35(4):337–41.

Synovial fluid concentrations of the C-propeptide of type II collagen correlate with body mass index in primary knee osteoarthritis. Kobayashi T, et al. **Ann Rheum Dis** 1997 Aug;56(8):500–3

Prevalence of low body mass in rheumatoid arthritis: association with the acute phase response. Munro R, et al. **Ann Rheum Dis** 1997 May;56(5):326–9

Low-dose recombinant human growth hormone increases body weight and lean body mass in patients with short bowel syndrome. Ellegård L, et al. **Ann Surg** 1997 Jan; 225(1):88–96

Blood pressure and its correlates in the population of Multan, Pakistan. Khan TH, et al. **Anthropol Anz** 1996 Dec; 54(4):361–8

Relation between insulin-like growth factor-I, body mass index, and clinical status in cystic fibrosis. Taylor AM, et al. **Arch Dis Child** 1997 Apr;76(4):304–9

Impact of body mass index on coronary heart disease risk factors in men and women. The Framingham Offspring Study. Lamon-Fava S, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1509–15

Associations of age, adiposity, menopause, and alcohol intake with low-density lipoprotein subclasses. Williams PT, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1082–90

A study of pattern of body mass index (BMI) and prevalence of obesity in a Saudi population. Kordy MN, et al. **Asia Pac J Public Health** 1995;8(2):59–65

Changing the threshold of body mass index that indicates obesity affects health targets [letter] Hill T, et al. **BMJ** 1996 Sep 28;313(7060):815–6

Association of body mass index, physical activity, and reproductive histories with breast cancer: a case-control study in Gifu, Japan. Hu YH, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):65–72

Pre-morbid body-mass-index in breast cancer: reversed effect on survival in hormone receptor negative patients. Maehle BO, et al. **Breast Cancer Res Treat** 1996; 41(2):123–30

Influence of body mass index on the age-related slope of total and regional bone mineral content. Revilla M, et al. **Calcif Tissue Int** 1997 Aug;61(2):134–8

Body mass index and the risk of cancers of the gastric cardia and distal stomach in Shanghai, China. Ji BT, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):481–5

Long-term change in exercise capacity, body mass, and pulmonary function in adults with cystic fibrosis. Moorcroft AJ, et al. **Chest** 1997 Feb;111(2):338–43

Positional vs nonpositional obstructive sleep apnea patients: anthropomorphic, nocturnal polysomnographic, and multiple sleep latency test data. Oksenberg A, et al. **Chest** 1997 Sep;112(3):629–39

Effects of menopause on trends of serum cholesterol, blood pressure, and body mass index. Akahoshi M, et al. **Circulation** 1996 Jul 1;94(1):61–6

Serum leptin through childhood and adolescence. Clayton PE, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):727–33

Serum leptin concentrations in patients with anorexia nervosa, bulimia nervosa and non-specific eating disorders correlate with the body mass index but are independent of the respective disease. Ferron F, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):289–93

Risk factor correlates of body mass index. Canadian Heart Health Surveys Research Group. Rabkin SW, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S26–31

Are body mass or insulin resistance independently associated with cardiovascular risk factors in non-diabetic elderly Nigerians? Ezenwaka CE, et al. **Diabet Med** 1996 Oct; 13(10):874–81

Predictors of progression from impaired glucose tolerance to NIDDM: an analysis of six prospective studies. Edelstein SL, et al. **Diabetes** 1997 Apr;46(4):701–10

Prevalence of NIDDM among populations of the African diaspora. Cooper RS, et al. **Diabetes Care** 1997 Mar; 20(3):343–8

Given diabetes, is fat better than thin? Ross C, et al. **Diabetes Care** 1997 Apr;20(4):650–2

Age and sex effects on HbA1c. A study in a healthy Chinese population. Yang YC, et al. **Diabetes Care** 1997 Jun; 20(6):988–91

Anthropometrical antecedents of non-insulin dependent diabetes mellitus: an age and sex matched comparison study of anthropometric indices in schoolchildren from a high prevalence Port Moresby community. Amini J, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):75–80

Familial correlations in the Québec family study: cross-trait familial resemblance for body fat with plasma glucose and insulin. Rice T, et al. **Diabetologia** 1996 Nov;39(11):1357–64

Association of Trp64Arg mutation of the beta 3-adrenergic receptor gene with NIDDM, current and maximal body mass index [letter; comment] Yoshioka K, et al. **Diabetologia** 1996 Nov;39(11):1410–1. Comment on: Diabetologia 1996 Mar;39(3):349–52.

Body mass index and body fat distribution in newly-arrived Vietnamese refugees in Sydney, Australia. Bermingham M, et al. **Eur J Clin Nutr** 1996 Oct;50(10):698–700

Total body protein status assessed by different estimates of fat-free mass in adult peritoneal dialysis patients. Borovnicar DJ, et al. **Eur J Clin Nutr** 1996 Sep; 50(9):607–16

Diet composition and body mass index in pre-school children. Davies PS. **Eur J Clin Nutr** 1997 Jul;51(7):443–8

Body mass index reference curves for children aged 3–19 years from Verona, Italy. Luciano A, et al. **Eur J Clin Nutr** 1997 Jan;51(1):6–10

High and low fat consumers, their macronutrient intake and body mass index: further analysis of the National Diet and Nutrition Survey of British Adults. Macdiarmid JI, et al. **Eur J Clin Nutr** 1996 Aug;50(8):505–12

Alcohol beverage drinking, diet and body mass index in a cross-sectional survey. Männistö S, et al. **Eur J Clin Nutr** 1997 May;51(5):326–32

Relationship between feeding pattern and body mass index in 220 free-living people in four age groups. Summerbell CD, et al. **Eur J Clin Nutr** 1996 Aug;50(8):513–9

Measurement of nutritional status using conventional anthropometry and D2O in Sarawak, Malaysia. Wells JC, et al. **Eur J Clin Nutr** 1996 Oct;50(10):668–71

Body mass index and adenomas of the sigmoid colon in Japanese men [letter] Kono S, et al. **Eur J Epidemiol** 1996 Aug;12(4):425–6

Relationship between body mass index, age and upper airway measurements in snorers and sleep apnoea patients. Mayer P, et al. **Eur Respir J** 1996 Sep;9(9):1801–9

Body mass index of pancreatic donors: a decisive factor for human islet isolation. Brandhorst H, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:23–26

Cyclamate consumption in Catalonia, Spain (1992): relationship with the body mass index. Serra-Majem L, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):695–703

Nutrition workup: don't forget to measure triglycerides, BMI [letter; comment] Geleskie P. **Geriatrics** 1997 Apr;52(4):20; discussion 20, 25. Comment on: Geriatrics 1997 Jan;52(1):33–4, 39–41; quiz 42.

Body mass index and age at menarche in Peruvian children living at high altitude and at sea level. Gonzales GF, et al. **Hum Biol** 1996 Apr;68(2):265–75

Body mass index and family histories in type II diabetic propositi and preliminary observations on the transmission of diabetes in polygamous families. Kodali VR, et al. **Hum Biol** 1997 Jun;69(3):393–402

Association of body mass index with blood pressure in elderly Japanese American men. The Honolulu Heart Program. Masaki KH, et al. **Hypertension** 1997 Feb;29(2):673–7

Relative influence of menopausal status, age, and body mass index on blood pressure. Portaluppi F, et al. **Hypertension** 1997 Apr;29(4):976–9

Body mass index of tannery workers in Kanpur, India. Ory FG, et al. **Indian J Med Res** 1996 Apr;103:232–40

Dicrotic wave and anthropometry [letter] Hussain S, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):187–8

Percentile curves for body-mass index of Punjabi infants. Bhalla AK, et al. **Indian Pediatr** 1996 Jun;33(6):471–6

'The bigger they come ...': the relationship between body mass index and severity of ankle fractures. Spaine LA, et al. **Injury** 1996 Dec;27(10):687–9

Use of percentiles for the body mass index in anorexia nervosa: diagnostic, epidemiological, and therapeutic considerations. Hebebrand J, et al. **Int J Eat Disord** 1996 May;19(4):359–69

Body weight in acute anorexia nervosa and at follow-up assessed with percentiles for the body mass index: implications of a low body weight at referral. Hebebrand J, et al. **Int J Eat Disord** 1996 May;19(4):347–57

Socioeconomic differentials in misclassification of height, weight and body mass index based on questionnaire data. Boström G, et al. **Int J Epidemiol** 1997 Aug;26(4):860–6

The effect of body mass index and oestrogen receptor level on survival of breast cancer patients. Newman SC, et al. **Int J Epidemiol** 1997 Jun;26(3):484–90

Are high-fat, high-sugar foods and diets conducive to obesity? Gibson SA. **Int J Food Sci Nutr** 1996 Sep; 47(5):405–15

Body mass index and all-cause mortality among people age 70 and over: the Longitudinal Study of Aging. Allison DB, et al. **Int J Obes Relat Metab Disord** 1997 Jun;21(6):424–31

Feeding frequency and BMI among teenagers aged 16–17 years. Crawley H, et al. **Int J Obes Relat Metab Disord** 1997 Feb;21(2):159–61

Physical activity and body composition in 10 year old French children: linkages with nutritional intake? Deheeger M, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):372–9

DEXA supports the use of BMI as a measure of fatness in young girls. Goulding A, et al.

Int J Obes Relat Metab Disord 1996 Nov;20(11):1014–21
Association between leisure time physical activity and 10-year body mass change among working-aged men and women. Haapanen N, et al.
Int J Obes Relat Metab Disord 1997 Apr;21(4):288–96
Leptin concentrations and insulin sensitivity in normoglycemic men. Haffner SM, et al.
Int J Obes Relat Metab Disord 1997 May;21(5):393–9
The prevalence of low back pain and associations with body fatness, fat distribution and height. Han TS, et al.
Int J Obes Relat Metab Disord 1997 Jul;21(7):600–7
Impact of waist-hip-ratio and body-mass-index on hormonal and metabolic parameters in young, obese women. Hollmann M, et al. **Int J Obes Relat Metab Disord** 1997 Jun;21(6):476–83
Factors associated with joint pain among postmenopausal women. Huang C, et al.
Int J Obes Relat Metab Disord 1997 May;21(5):349–54
Women's reproductive health: the role of body mass index in early and adult life. Lake JK, et al.
Int J Obes Relat Metab Disord 1997 Jun;21(6):432–8
Effects of initial BMI and on-treatment weight change on the lipid-lowering efficacy of fibrates. Muls E, et al.
Int J Obes Relat Metab Disord 1997 Feb;21(2):155–8
Recall of body weight and body size estimation in women enrolled in the breast cancer detection and demonstration project (BCDDP). Muñoz KA, et al.
Int J Obes Relat Metab Disord 1996 Sep;20(9):854–9
Estimated energy balance in female university students: differences with respect to body mass index and concern about body weight. Ortega RM, et al.
Int J Obes Relat Metab Disord 1996 Dec;20(12):1127–9
Measurement and long-term health risks of child and adolescent fatness. Power C, et al.
Int J Obes Relat Metab Disord 1997 Jul;21(7):507–26 (93 ref.)
Within birth cohort segregation analyses support recessive inheritance of body mass index in white and African-American families. Price RA.
Int J Obes Relat Metab Disord 1996 Nov;20(11):1044–7
Familial clustering of multiple measures of adiposity and fat distribution in the Québec Family Study: a trivariate analysis of percent body fat, body mass index, and trunk-to-extremity skinfold ratio. Rice T, et al.
Int J Obes Relat Metab Disord 1995 Dec;19(12):902–8
Skinfold and near infrared body fat measurements have sex-specific differences, but may be useful in combination with BMI for determining relative risk factors on a large scale [letter] Rothacker DQ.
Int J Obes Relat Metab Disord 1995 Dec;19(12):929
Nutritional status in adults in the pluri-ethnic population of New Caledonia. The CALDIA Study Group. Tassié JM, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):61–6
The reallocation of body fat toward the abdomen persists to very old age, while body mass index declines after middle age in Chinese. Teh BH, et al.
Int J Obes Relat Metab Disord 1996 Jul;20(7):683–7
Validation study of self-reported measures of fat distribution. Weaver TW, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):644–50
Body mass index variations by age and sex, and prevalence of overweight in Japanese adults. Yanai M, et al.
Int J Obes Relat Metab Disord 1997 Jun;21(6):484–8
Food intake and Body Mass Index in the privately institutionalized elderly in Tehran. Ahrari M, et al.
Int J Vitam Nutr Res 1997;67(1):41–6
Use of body mass index to monitor treatment of obese adolescents. Smith JC, et al. **J Adolesc Health** 1997 Jun; 20(6):466–9
Concern regarding bodyweight and energy balance in a group of female university students from Madrid: differences with respect to body mass index. Ortega RM, et al. **J Am Coll Nutr** 1997 Jun;16(3):244–51
Segmental body composition assessed by bioelectrical impedance analysis and DEXA in humans. Bracco D, et al. **J Appl Physiol** 1996 Dec;81(6):2580–7
Association of body mass index, blood pressure and serum levels of triglycerides and high-density lipoprotein cholesterol in childhood with the insulin sensitivity index in young adulthood: a 13-year follow-up. Clausen JO, et al. **J Cardiovasc Risk** 1996 Oct;3(5):427–33
Serum leptin levels in normal children: relationship to age, gender, body mass index, pituitary-gonadal hormones, and pubertal stage. Garcia-Mayor RV, et al.
J Clin Endocrinol Metab 1997 Sep;82(9):2849–55
Resistance to insulin-mediated glucose disposal in patients with noninsulin-dependent diabetes mellitus in the absence of obesity or microalbuminuria--a Clinical Research Center study. Sheu W, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1156–9
Body mass index compared to dual-energy x-ray absorptiometry: evidence for a spectrum bias. Curtin F, et al. **J Clin Epidemiol** 1997 Jul;50(7):837–43
Dominant risk factors for retinopathy at clinical diagnosis in patients with type II diabetes mellitus. Nguyen HT, et al. **J Diabetes Complications** 1996 Jul-Aug;10(4):211–9
Adjustment of ECG left ventricular hypertrophy criteria for body mass index and age improves classification accuracy. The effects of hypertension and obesity. Norman JE Jr, et al. **J Electrocardiol** 1996;29 Suppl:241–7
ECG identification of left ventricular hypertrophy. Relationship of test performance to body habitus. Okin PM, et al. **J Electrocardiol** 1996;29 Suppl:256–61
Body size and mortality in women: a 29 year follow up of 12,000 pregnant women in northern Finland. Läärä E, et al. **J Epidemiol Community Health** 1996 Aug;50(4):408–14
Smoking and relative body weight: an international perspective from the WHO MONICA Project. Molarius A, et al. **J Epidemiol Community Health** 1997 Jun; 51(3):252–60
Body mass index, waist circumference, waist-hip ratio, and glucose intolerance in Chinese and Europid adults in Newcastle, UK. Unwin N, et al.
J Epidemiol Community Health 1997 Apr;51(2):160–6
Defining obesity in patients undergoing orthotopic heart transplantation: body mass index versus percent body fat. Leaf DA, et al. **J Heart Lung Transplant** 1997 May; 16(5):563–5
Body mass index is a determinant of blood pressure in young adults with essential hypertensive parents. Health Care Programme of University of Tokyo. Uehara Y, et al.
J Hum Hypertens 1996 Sep;10(9):601–6
Comparison of body composition in black and white premenopausal women [see comments] Aloia JF, et al.
J Lab Clin Med 1997 Mar;129(3):294–9. Comment in: J Lab Clin Med 1997 Mar;129(3):281–2.
Racial effects on body composition: it's not all black and white [editorial; comment] Reid IR. **J Lab Clin Med** 1997 Mar;129(3):281–2. Comment on: J Lab Clin Med 1997 Mar;129(3):294–9.
Body size and prostate cancer: a 20-year follow-up study among 135006 Swedish construction workers. Andersson SO, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):385–9
Reversal of relation between body mass and endogenous estrogen concentrations with menopausal status [letter; comment] Gerber M. **J Natl Cancer Inst** 1997 May 7; 89(9):661–2. Comment on: J Natl Cancer Inst 1996 Jun 5;88(11):756–8.
Measurement error and results from analytic epidemiology: dietary fat and breast cancer. Prentice RL.
J Natl Cancer Inst 1996 Dec 4;88(23):1738–47
Re: Reversal of relation between body mass and endogenous estrogen concentrations with menopausal status [letter; comment] Thomas HV, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):396–8. Comment on: J Natl Cancer Inst 1996 Jun 5;88(11):756–8.
Relationship between physical inactivity and adiposity in prepubertal boys. Maffeis C, et al. **J Pediatr** 1997 Aug; 131(2):288–92
Postprandial lipemia in obese men with abdominal fat patterning. Wideman L, et al.
J Sports Med Phys Fitness 1996 Sep;36(3):204–10
Height, weight, and body mass index (BMI) of Vietnamese (Hanoi) schoolchildren aged 7–11 years related to parents' occupation and education. Aurelius G, et al.
J Trop Pediatr 1996 Feb;42(1):21–6
Fat mass, fat mass percentage, body mass index, and mid-upper arm circumference in a healthy population of Nigerian children. Owa JA, et al. **J Trop Pediatr** 1997 Feb; 43(1):13–9
Effect of body mass index on activity limitation and mortality among older women: the National Health Interview Survey, 1986–1990. Brill PA, et al. **J Womens Health** 1997 Aug;6(4):435–40
A prospective study of body mass index, weight change, and risk of stroke in women. Rexrode KM, et al. **JAMA** 1997 May 21;277(19):1539–45
Is big still beautiful in Polynesia? Ben-Tovim DI. **Lancet** 1996 Oct 19;348(9034):1047–8
Birthweight, body-mass index in middle age, and incident coronary heart disease. Frankel S, et al. **Lancet** 1996 Nov 30;348(9040):1478–80
Association between increased body mass index and a diagnosis of acute promyelocytic leukemia in patients with acute myeloid leukemia. Estey E, et al. **Leukemia** 1997 Oct; 11(10):1661–4
Body mass index and daily physical activity in anorexia nervosa. Bouten CV, et al. **Med Sci Sports Exerc** 1996 Aug; 28(8):967–73
Associations among physical activity, television watching, and obesity in adult Pima Indians. Fitzgerald SJ, et al.
Med Sci Sports Exerc 1997 Jul;29(7):910–5
Fat distribution, physical activity, and cardiovascular risk factors. Hunter GR, et al. **Med Sci Sports Exerc** 1997 Mar; 29(3):362–9
Simplified percent body fat predictor [letter; comment] Wilson LW. **Mil Med** 1997 Jun;162(6):ii. Comment on: Mil Med 1997 Mar;162(3):194–200.
Assessment of total body water and lean body mass from anthropometry, Watson formula, creatinine kinetics, and body electrical impedance compared with antipyrine kinetics in peritoneal dialysis patients. de Fijter WM, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):151–6
Effect of BMI, insulin dose and number of injections on glycaemic control in insulin-using diabetic patients. Studygroup Diabetes Rijnmond (SDR). Jacobs ML, et al. **Neth J Med** 1997 Apr;50(4):153–9
Human variation in body mass: evidence for a role of the genes. Bouchard C. **Nutr Rev** 1997 Jan;55(1 Pt 2):S21–7; discussion S27–30 (57 ref.)
Body mass index at different ages and its association with height at age 14 and with the whole growing process. Amador M, et al. **Nutrition** 1996 Jun;12(6):416–22
The relationship of body mass index to reproductive factors in pre- and postmenopausal African-American women with and without breast cancer. Adams-Campbell LL, et al. **Obes Res** 1996 Sep;4(5):451–6
Genetic influences on changes in body mass index: a longitudinal analysis of women twins. Austin MA, et al. **Obes Res** 1997 Jul;5(4):326–31
Prediction equations do not eliminate systematic error in self-reported body mass index. Plankey MW, et al.
Obes Res 1997 Jul;5(4):308–14
Comparisons for body mass index and body fat percent among Puerto Ricans, blacks, whites and Asians living in the New York City area. Wang J, et al. **Obes Res** 1996 Jul;4(4):377–84
Waist circumference as the best predictor of noninsulin dependent diabetes mellitus (NIDDM) compared to body mass index, waist/hip ratio and other anthropometric measurements in Mexican Americans--a 7-year prospective study. Wei M, et al. **Obes Res** 1997 Jan; 5(1):16–23
Low pregravid body mass index as a risk factor for preterm birth: variation by ethnic group. Hickey CA, et al.
Obstet Gynecol 1997 Feb;89(2):206–12
Longitudinal changes in the relationship between body mass index and percent body fat in pregnancy. Lindsay CA, et al. **Obstet Gynecol** 1997 Mar;89(3):377–82
Industrial accidents are related to relative body weight: the Israeli CORDIS study. Froom P, et al.
Occup Environ Med 1996 Dec;53(12):832–5
Development of fat tissue and body mass index from infancy to adulthood. Gasser T. **Pediatr Nephrol** 1996 Jun; 10(3):340–2
Lipoprotein changes in relation to body mass index in Native American adolescents. Blackett PR, et al. **Pediatr Res** 1996 Jul;40(1):77–81
The utility of body mass index as a measure of body fatness in children and adolescents: differences by race and gender. Daniels SR, et al. **Pediatrics** 1997 Jun;99(6):804–7
Daily exercise reduces fat, protein and body mass in male but not female rats. Cortright RN, et al. **Physiol Behav** 1997 Jul;62(1):105–11
Corticosterone, reproductive status, and body mass in a cooperative breeder, the Florida scrub-jay (Aphelocoma coerulescens). Schoech SJ, et al. **Physiol Zool** 1997 Jan-Feb;70(1):68–73
The influence of gender and socioeconomic factors on Hispanic/white differences in body mass index. Winkleby MA, et al. **Prev Med** 1996 Mar-Apr;25(2):203–11
The role of body mass index in the relative risk of developing premenopausal versus postmenopausal breast cancer. Cleary MP, et al. **Proc Soc Exp Biol Med** 1997 Oct; 216(1):28–43 (215 ref.)
Blood pressure and body measurements among Navajo adolescents. Gilbert TJ, et al. **Public Health Rep** 1996;111 Suppl 2:44–6
Predictors of BMI among adults with Down syndrome: the social context of health promotion. Fujiura GT, et al.
Res Dev Disabil 1997 Jul-Aug;18(4):261–74
Running economy: comparison of body mass adjustment methods. Davies MJ, et al. **Res Q Exerc Sport** 1997 Jun; 68(2):177–81
Body mass index and mortality in patients with severe alpha 1-antitrypsin deficiency. Seersholm N. **Respir Med** 1997 Feb;91(2):77–82
The importance of fat free mass maintenance in weight loss programmes. Marks BL, et al. **Sports Med** 1996 Nov; 22(5):273–81 (45 ref.)
A longitudinal study of changes in body mass index and total body composition after radioiodine treatment for thyrotoxicosis. de la Rosa RE, et al. **Thyroid** 1997 Jun; 7(3):401–5
Is there any difference in coronary heart disease risk factors and prevalence of fatty liver in subjects with normal body mass index having different physiques? Hsieh SD, et al. **Tohoku J Exp Med** 1995 Nov;177(3):223–31
Body mass index (BMI) is a reliable index to estimate obesity as a risk factor for deteriorating health. Kato M, et al.
Tokushima J Exp Med 1996 Jun;43(1–2):1–6
[Determination of the corpulence index in newborn infants] Pineau JC, et al. **C R Acad Sci III** 1996 Aug;319(8):747–51 (Eng. Abstr.) **(Fre)**
[Blood viscosity is correlated with insulin resistance] Brun JF, et al. **J Mal Vasc** 1996;21(3):171–4 (Eng. Abstr.) **(Fre)**
[Determination of body feat in treatment of anorexia nervosa] Schmidt MH, et al. **Z Kinder Jugenpsychiatr** 1997 Mar; 25(1):27–34 (Eng. Abstr.) **(Ger)**
[Evaluation of nutritional status of patients on continuous ambulatory peritoneal dialysis (CAPD) by dual photon energy X-ray absorptiometry (DEXA)] Takahashi H, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec;38(12):618–24 (Eng. Abstr.) **(Jpn)**
[Hydrostatic weighing, skinfold thickness, body mass index relationships in high school girls] Tahara Y, et al.
Nippon Koshu Eisei Zasshi 1995 Dec;42(12):1061–8 (Eng. Abstr.) **(Jpn)**
[Relation of life style, working posture and job category to body mass index change in young male workers] Yamasaki T. **Nippon Koshu Eisei Zasshi** 1995 Dec;42(12):1042–53 (Eng. Abstr.) **(Jpn)**
[Clinical characteristics of patients with hypertension resistant to antihypertensive drug therapy] Głuszek J, et al. **Pol Arch Med Wewn** 1996 Dec;96(6):570–6 (Eng. Abstr.)

(Pol)

[Blood pressure levels in young students. Correlation between body mass and metabolic and hemodynamic factors] De Lena SM, et al. **Medicina (B Aires)** 1996;56(2):161–8 (Eng. Abstr.) **(Spa)**

[An anthropometric study of a group of elderly men and women of Mexico City] Velázquez-Alva MC, et al. **Salud Publica Mex** 1996 Nov-Dec;38(6):466–74 (Eng. Abstr.) **(Spa)**

BODY PATTERNING

Spatio-temporal curvature pattern of the caudal body axis for non-mutant and curly tail mouse embryos during the period of caudal neural tube closure. Peeters MC, et al. **Anat Embryol (Berl)** 1997 Mar;195(3):259–66

Morphogens and pattern formation. Neumann C, et al. **Bioessays** 1997 Aug;19(8):721–9 (76 ref.)

Retinoid signalling and axial patterning during early vertebrate embryogenesis. Durston AJ, et al. **Cell Mol Life Sci** 1997 Apr;53(4):339–49 (136 ref.)

A program for analyzing the morphological organization of tessellated cellular mosaics. Dilts DM, et al. **Comput Biol Med** 1996 Sep;26(5):409–18

Pattern formation and developmental mechanisms. **Curr Opin Genet Dev** 1997 Aug;7(4):559–73

Neural induction in amphibians. Grunz H. **Curr Top Dev Biol** 1997;35:191–228 (237 ref.)

Pattern formation in janus-mutant zebrafish embryos. Abdelilah S, et al. **Dev Biol** 1997 Apr 1;184(1):70–84

A role for midline closure in the reestablishment of dorsoventral pattern following dorsal hindbrain ablation. Buxton P, et al. **Dev Biol** 1997 Mar 15;183(2):150–65

The role of actin filaments in patterning the Caenorhabditis elegans cuticle. Costa M, et al. **Dev Biol** 1997 Apr 15; 184(2):373–84

Dorsal-ventral patterning during neural induction in Xenopus: assessment of spinal cord regionalization with xHB9, a marker for the motor neuron region. Saha MS, et al. **Dev Biol** 1997 Jul 15;187(2):209–23

Polarizing activity, Sonic hedgehog, and tooth development in embryonic and postnatal mouse. Koyama E, et al. **Dev Dyn** 1996 May;206(1):59–72

Neither the homeodomain nor the activation domain of Bicoid is specifically required for its down-regulation by the Torso receptor tyrosine kinase cascade. Bellaïche Y, et al. **Development** 1996 Nov;122(11):3499–508

Dorsoventral patterning of the vertebrate neural tube is conserved in a protochordate. Corbo JC, et al. **Development** 1997 Jun;124(12):2335–44

A role for Siamois in Spemann organizer formation. Fan MJ, et al. **Development** 1997 Jul;124(13):2581–9

Patterning the dorsal longitudinal flight muscles (DLM) of Drosophila: insights from the ablation of larval scaffolds. Fernandes JJ, et al. **Development** 1996 Dec;122(12):3755–63

Ectopic expression of wingless in imaginal discs interferes with decapentaplegic expression and alters cell determination. Johnston LA, et al. **Development** 1996 Nov; 122(11):3519–29

Location and behavior of dorsal determinants during first cell cycle in Xenopus eggs. Kikkawa M, et al. **Development** 1996 Dec;122(12):3687–96

Mechanisms of dorsal-ventral patterning in noggin-induced neural tissue. Knecht AK, et al. **Development** 1997 Jun; 124(12):2477–88

Evidence that FGF8 signalling from the midbrain-hindbrain junction regulates growth and polarity in the developing midbrain. Lee SM, et al. **Development** 1997 Mar; 124(5):959–69

Xmsx-1 modifies mesodermal tissue pattern along dorsoventral axis in Xenopus laevis embryo. Maeda R, et al. **Development** 1997 Jul;124(13):2553–60

The role of bone morphogenetic proteins in vertebral development. Monsoro-Burq AH, et al. **Development** 1996 Nov;122(11):3607–16

The Drosophila fish-hook gene encodes a HMG domain protein essential for segmentation and CNS development. Nambu PA, et al. **Development** 1996 Nov;122(11):3467–75

A hierarchy of cross-regulation involving Notch, wingless, vestigial and cut organizes the dorsal/ventral axis of the Drosophila wing. Neumann CJ, et al. **Development** 1996 Nov;122(11):3477–85

Long-range action of Wingless organizes the dorsal-ventral axis of the Drosophila wing. Neumann CJ, et al. **Development** 1997 Feb;124(4):871–80

A posteriorising factor, retinoic acid, reveals that anteroposterior patterning controls the timing of neuronal differentiation in Xenopus neuroectoderm. Papalopulu N, et al. **Development** 1996 Nov;122(11):3409–18

Structure of the insect head as revealed by the EN protein pattern in developing embryos. Rogers BT, et al. **Development** 1996 Nov;122(11):3419–32

The Dichaete gene of Drosophila melanogaster encodes a SOX-domain protein required for embryonic segmentation. Russell SR, et al. **Development** 1996 Nov;122(11):3669–76

Developmental territories created by mutual antagonism between Wingless and Decapentaplegic. Theisen H, et al. **Development** 1996 Dec;122(12):3939–48

Control of germ-band retraction in Drosophila by the zinc-finger protein HINDSIGHT. Yip ML, et al. **Development** 1997 Jun;124(11):2129–41

Xenopus VegT RNA is localized to the vegetal cortex during oogenesis and encodes a novel T-box transcription factor involved in mesodermal patterning. Zhang J, et al. **Development** 1996 Dec;122(12):4119–29

Positive cross-regulation and enhancer sharing: two mechanisms for specifying overlapping Hox expression patterns. Gould A, et al. **Genes Dev** 1997 Apr 1; 11(7):900–13

Genetic analysis of dorsoventral pattern formation in the zebrafish: requirement of a BMP-like ventralizing activity and its dorsal repressor. Hammerschmidt M, et al. **Genes Dev** 1996 Oct 1;10(19):2452–61

GATA4 transcription factor is required for ventral morphogenesis and heart tube formation. Kuo CT, et al. **Genes Dev** 1997 Apr 15;11(8):1048–60

Requirement of the transcription factor GATA4 for heart tube formation and ventral morphogenesis. Molkentin JD, et al. **Genes Dev** 1997 Apr 15;11(8):1061–72

The signaling pathway mediated by the type IIB activin receptor controls axial patterning and lateral asymmetry in the mouse. Oh SP, et al. **Genes Dev** 1997 Jul 15; 11(14):1812–26

The role of cyclin-dependent kinase 5 and a novel regulatory subunit in regulating muscle differentiation and patterning. Philpott A, et al. **Genes Dev** 1997 Jun 1;11(11):1409–21

A deficiency screen for zygotic loci required for establishment and patterning of the epidermis in Caenorhabditis elegans. Terns RM, et al. **Genetics** 1997 May;146(1):185–206

The final determination of Xenopus ectoderm depends on intrinsic and external positional information. Chen Y, et al. **Int J Dev Biol** 1997 Jun;41(3):525–8

Establishment of the dorso-ventral axis in Xenopus embryos is presaged by early asymmetries in beta-catenin that are modulated by the Wnt signaling pathway. Larabell CA, et al. **J Cell Biol** 1997 Mar 10;136(5):1123–36

Pattern formation by lateral inhibition with feedback: a mathematical model of delta-notch intercellular signalling. Collier JR, et al. **J Theor Biol** 1996 Dec 21;183(4):429–46

A role for Xenopus Gli-type zinc finger proteins in the early embryonic patterning of mesoderm and neuroectoderm. Marine JC, et al. **Mech Dev** 1997 May;63(2):211–25

Expression of S9 and actin CyIIa mRNAs reveals dorso-ventral polarity and mesodermal sublineages in the vegetal plate of the sea urchin embryo. Miller RN, et al. **Mech Dev** 1996 Nov;60(1):3–12

A graded response to BMP-4 spatially coordinates patterning of the mesoderm and ectoderm in the zebrafish. Neave B, et al. **Mech Dev** 1997 Mar;62(2):183–95

Evolutionary biology. The ancestry of segmentation [news] De Robertis EM. **Nature** 1997 May 1;387(6628):25–6

Origin of patterning in neural tubes [letter] Wada H, et al. **Nature** 1996 Nov 14;384(6605):123

The GURKE gene is required for normal organization of the apical region in the Arabidopsis embryo. Torres-Ruiz RA, et al. **Plant J** 1996 Dec;10(6):1005–16

Anteroposterior neural tissue specification by activin-induced mesoderm. Green JB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8596–601

Microtubule-mediated transport of organelles and localization of beta-catenin to the future dorsal side of Xenopus eggs. Rowning BA, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1224–9

Abnormal skeletal patterning in embryos lacking a single Cbp allele: a partial similarity with Rubinstein-Taybi syndrome. Tanaka Y, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10215–20

Patterning the vertebrate neuraxis. Lumsden A, et al. **Science** 1996 Nov 15;274(5290):1109–15 (101 ref.)

Hedgehog's patterning call is patched through, smoothly [news] Roush W. **Science** 1996 Nov 22;274(5291):1304–5

Diversity and pattern in the developing spinal cord [published erratum appears in Science 1997 Apr 4;276(5309):21] Tanabe Y, et al. **Science** 1996 Nov 15;274(5290):1115–23 (114 ref.)

Specification of the zebrafish nervous system by nonaxial signals. Woo K, et al. **Science** 1997 Jul 11;277(5323):254–7

Antagonism within and around the organizer: BMP inhibitors in vertebrate body patterning. Thomsen GH. **Trends Genet** 1997 Jun;13(6):209–11 (25 ref.)

DRUG EFFECTS

Inhibition of morphogenetic movement during Xenopus gastrulation by injected sulfatase: implications for anteroposterior and dorsoventral axis formation. Wallingford JB, et al. **Dev Biol** 1997 Jul 15;187(2):224–35

Contribution of retinoic acid receptor gamma to retinoid-induced craniofacial and axial defects. Iulianella A, et al. **Dev Dyn** 1997 May;209(1):92–104

Correlation between RA-induced apoptosis and patterning defects in regenerating fins and limbs. Géraudie J, et al. **Int J Dev Biol** 1997 Jun;41(3):529–32

GENETICS

A submicroscopic deletion in Xq26 associated with familial situs ambiguus. Ferrero GB, et al. **Am J Hum Genet** 1997 Aug;61(2):395–401

The mago nashi gene is required for the polarisation of the oocyte and the formation of perpendicular axes in Drosophila. Micklem DR, et al. **Curr Biol** 1997 Jul 1; 7(7):468–78

Limb mutants: what can they tell us about normal limb development? Niswander L. **Curr Opin Genet Dev** 1997 Aug;7(4):530–6 (60 ref.)

New insights into segmentation and patterning during vertebrate somitogenesis. Yamaguchi TP. **Curr Opin Genet Dev** 1997 Aug;7(4):513–8 (50 ref.)

Brainiac encodes a novel, putative secreted protein that cooperates with Grk TGF alpha in the genesis of the follicular epithelium. Goode S, et al. **Dev Biol** 1996 Aug 25;178(1):35–50

The expression of the mouse Zic1, Zic2, and Zic3 gene suggests an essential role for Zic genes in body pattern formation. Nagai T, et al. **Dev Biol** 1997 Feb 15; 182(2):299–313

Neural tube is partially dorsalized by overexpression of HrPax-37: the ascidian homologue of Pax-3 and Pax-7. Wada H, et al. **Dev Biol** 1997 Jul 15;187(2):240–52

Multiple positive cis elements regulate the asymmetric expression of the SpHE gene along the sea urchin embryo animal-vegetal axis. Wei Z, et al. **Dev Biol** 1997 Jul 1; 187(1):71–8

Disruption of Msx-1 and Msx-2 reveals roles for these genes in craniofacial, eye, and axial development. Foerst-Potts L, et al. **Dev Dyn** 1997 May;209(1):70–84

Developmental patterning and evolution of the mammalian viscerocranium: genetic insights into comparative morphology. Kuratani S, et al. **Dev Dyn** 1997 Jun; 209(2):139–55 (145 ref.)

Novel genetic screen for genes involved in posterior body patterning in Drosophila. Wilson JE, et al. **Dev Genet** 1996; 19(3):199–209

Mutations affecting development of the midline and general body shape during zebrafish embryogenesis. Brand M, et al. **Development** 1996 Dec;123:129–42

Genetic separation of the neural and cuticular patterning functions of gooseberry. Duman-Scheel M, et al. **Development** 1997 Aug;124(15):2855–65

Mouse Dll3: a novel divergent Delta gene which may complement the function of other Delta homologues during early pattern formation in the mouse embryo. Dunwoodie SL, et al. **Development** 1997 Aug;124(16):3065–76

Loss of cerebum function ventralizes the zebrafish embryo. Fisher S, et al. **Development** 1997 Apr;124(7):1301–11

The chick limbless mutation causes abnormalities in limb bud dorsal-ventral patterning: implications for the mechanism of apical ridge formation. Grieshammer U, et al. **Development** 1996 Dec;122(12):3851–61

The role of the msh homeobox gene during Drosophila neurogenesis: implication for the dorsoventral specification of the neuroectoderm. Isshiki T, et al. **Development** 1997 Aug;124(16):3099–109

A family of mammalian Fringe genes implicated in boundary determination and the Notch pathway. Johnston SH, et al. **Development** 1997 Jun;124(11):2245–54

Concentration-dependent patterning by an ectopic expression domain of the Drosophila gap gene knirps. Kosman D, et al. **Development** 1997 Apr;124(7):1343–54

Medaka spalt acts as a target gene of hedgehog signaling. Koster R, et al. **Development** 1997 Aug;124(16):3147–56

The winged helix gene, Mf3, is required for normal development of the diencephalon and midbrain, postnatal growth and the milk-ejection reflex. Labosky PA, et al. **Development** 1997 Apr;124(7):1263–74

Compartments, wingless and engrailed: patterning the ventral epidermis of Drosophila embryos. Lawrence PA, et al. **Development** 1996 Dec;122(12):4095–103

Expression cloning of a Xenopus T-related gene (Xombi) involved in mesodermal patterning and blastopore lip formation. Lustig KD, et al. **Development** 1996 Dec; 122(12):4001–12

valentino: a zebrafish gene required for normal hindbrain segmentation. Moens CB, et al. **Development** 1996 Dec; 122(12):3981–90

Genes establishing dorsoventral pattern formation in the zebrafish embryo: the ventral specifying genes. Mullins MC, et al. **Development** 1996 Dec;123:81–93

Drosophila embryonic pattern repair: how embryos respond to bicoid dosage alteration. Namba R, et al. **Development** 1997 Apr;124(7):1393–403

Misexpression of Cwnt8C in the mouse induces an ectopic embryonic axis and causes a truncation of the anterior neuroectoderm. Pöpperl H, et al. **Development** 1997 Aug; 124(15):2997–3005

eFGF, Xcad3 and Hox genes form a molecular pathway that establishes the anteroposterior axis in Xenopus. Pownall ME, et al. **Development** 1996 Dec;122(12):3881–92

An activated form of type I serine/threonine kinase receptor TARAM-A reveals a specific signalling pathway involved in fish head organiser formation. Renucci A, et al. **Development** 1996 Dec;122(12):3735–43

Control of cell fates and segmentation in the Drosophila mesoderm. Riechmann V, et al. **Development** 1997 Aug; 124(15):2915–22

A binding site for Gli proteins is essential for HNF-3beta floor plate enhancer activity in transgenics and can respond to Shh in vitro. Sasaki H, et al. **Development** 1997 Apr; 124(7):1313–22

A novel family of T-box genes in urodele amphibian limb development and regeneration: candidate genes involved in vertebrate forelimb/hindlimb patterning. Simon HG, et al. **Development** 1997 Apr;124(7):1355–66

Joint patterning defects caused by single and double mutations in members of the bone morphogenetic protein

(BMP) family. Storm EE, et al. **Development** 1996 Dec; 122(12):3969–79

Mutations affecting somite formation and patterning in the zebrafish, Danio rerio. van Eeden FJ, et al. **Development** 1996 Dec;123:153–64

Cell fate in the chick limb bud and relationship to gene expression. Vargesson N, et al. **Development** 1997 May; 124(10):1909–18

Nanos and pumilio establish embryonic polarity in Drosophila by promoting posterior deadenylation of hunchback mRNA. Wreden C, et al. **Development** 1997 Aug;124(15):3015–23

The role of lin-22, a hairy/enhancer of split homolog, in patterning the peripheral nervous system of C. elegans. Wrischnik LA, et al. **Development** 1997 Aug; 124(15):2875–88

Abnormal mesoderm patterning in mouse embryos mutant for the SH2 tyrosine phosphatase Shp-2. Saxton TM, et al. **EMBO J** 1997 May 1;16(9):2352–64

A beta-catenin/XTcf-3 complex binds to the siamois promoter to regulate dorsal axis specification in Xenopus. Brannon M, et al. **Genes Dev** 1997 Sep 15;11(18):2359–70

The winged helix transcription factor MFH1 is required for proliferation and patterning of paraxial mesoderm in the mouse embryo. Winnier GE, et al. **Genes Dev** 1997 Apr 1;11(7):926–40

Is there a link between changes in the vertebral "hox code" and the shape of vertebrae? A quantitative study of shape change in the cervical vertebral column of mice. Johnson DR, et al. **J Theor Biol** 1996 Nov 7;183(1):89–93

Rbt (Rabo torcido), a new mouse skeletal mutation involved in anteroposterior patterning of the axial skeleton, maps close to the Ts (tail-short) locus and distal to the Sox9 locus on chromosome 11. Hustert E, et al. **Mamm Genome** 1996 Dec;7(12):881–5

A gradient of cytoplasmic Cactus degradation establishes the nuclear localization gradient of the dorsal morphogen in Drosophila. Bergmann A, et al. **Mech Dev** 1996 Nov; 60(1):109–23

msh may play a conserved role in dorsoventral patterning of the neuroectoderm and mesoderm. D'Alessio M, et al. **Mech Dev** 1996 Aug;58(1–2):217–31

Xwnt-2b is a novel axis-inducing Xenopus Wnt, which is expressed in embryonic brain. Landesman Y, et al. **Mech Dev** 1997 May;63(2):199–209

Hroth an orthodenticle-related homeobox gene of the ascidian, Halocynthia roretzi: its expression and putative roles in the axis formation during embryogenesis. Wada S, et al. **Mech Dev** 1996 Nov;60(1):59–71

Requirement of the paraxis gene for somite formation and musculoskeletal patterning. Burgess R, et al. **Nature** 1996 Dec 12;384(6609):570–3

Cyclopia and defective axial patterning in mice lacking Sonic hedgehog gene function. Chiang C, et al. **Nature** 1996 Oct 3;383(6599):407–13

Positional cloning of a global regulator of anterior–posterior patterning in mice. Schumacher A, et al. **Nature** 1996 Dec 19–26;384(6610):648

GIF-DB, a WWW database on gene interactions involved in Drosophila melanogaster development. Jacq B, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):67–71

Role of the Xlim-1 and Xbra genes in anteroposterior patterning of neural tissue by the head and trunk organizer. Taira M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4; 94(3):895–900

Expression of mutated Nck SH2/SH3 adaptor respecifies mesodermal cell fate in Xenopus laevis development. Tanaka M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4493–8

Control of vertebrate left-right asymmetry by a snail-related zinc finger gene [see comments] Isaac A, et al. **Science** 1997 Feb 28;275(5304):1301–4. Comment in: Science 1997 Feb 28;275(5304):1280.

Developing a new view of evolution [news] [see comments] Pennisi E, et al. **Science** 1997 Jul 4;277(5322):34–7. Comment in: Science 1997 Sep 5;277(5331):1420.

Left-right asymmetry [comment] Robertson EJ. **Science** 1997 Feb 28;275(5304):1280. Comment on: Science 1997 Feb 28;275(5304):1301–4.

PHYSIOLOGY

Patterning the cranial neural crest. Graham A, et al. **Biochem Soc Symp** 1996;62:77–83 (13 ref.)

Connecting cell behavior to patterning: lessons from the cell cycle. Follette PJ, et al. **Cell** 1997 Feb 7;88(3):309–14 (34 ref.)

Embryonic patterning: to BMP or not to BMP, that is the question. Graff JM. **Cell** 1997 Apr 18;89(2):171–4 (20 ref.)

Short historical survey of pattern formation in the endo-mesoderm and the neural anlage in the vertebrates: the role of vertical and planar inductive actions. Nieuwkoop PD. **Cell Mol Life Sci** 1997 Apr;53(4):305–18 (133 ref.)

Vessel patterning in the embryo of the zebrafish: guidance by notochord. Fouquet B, et al. **Dev Biol** 1997 Mar 1; 183(1):37–48

Localization of MAP kinase activity in early Xenopus embryos: implications for endogenous FGF signaling. LaBonne C, et al. **Dev Biol** 1997 Mar 1;183(1):9–20

Abnormal patterning of the aortic arch arteries does not evoke cardiac malformations. Kirby ML, et al. **Dev Dyn** 1997 Jan;208(1):34–47

Early- and late-migrating cranial neural crest cell populations have equivalent developmental potential in vivo. Baker CV, et al. **Development** 1997 Aug; 124(16):3077–87

The prechordal region lacks neural inducing ability, but can confer anterior character to more posterior neuroepithelium. Foley AC, et al. **Development** 1997 Aug; 124(15):2983–96

A Ras GAP is essential for cytokinesis and spatial patterning in Dictyostelium. Lee S, et al. **Development** 1997 Mar; 124(5):983–96

Reassessing embryogenesis in the Ctenophora: the inductive role of e1 micromeres in organizing ctene row formation in the 'mosaic' embryo, Mnemiopsis leidyi. Martindale MQ, et al. **Development** 1997 May;124(10):1999–2006

Pointed, an ETS domain transcription factor, negatively regulates the EGF receptor pathway in Drosophila oogenesis. Morimoto AM, et al. **Development** 1996 Dec; 122(12):3745–54

mago nashi mediates the posterior follicle cell-to-oocyte signal to organize axis formation in Drosophila. Newmark PA, et al. **Development** 1997 Aug;124(16):3197–207

Musculoskeletal patterning in the pharyngeal segments of the zebrafish embryo. Schilling TF, et al. **Development** 1997 Aug;124(15):2945–60

Hedgehog organises the pattern and polarity of epidermal cells in the Drosophila abdomen. Struhl G, et al. **Development** 1997 Jun;124(11):2143–54

Hedgehog acts by distinct gradient and signal relay mechanisms to organise cell type and cell polarity in the Drosophila abdomen. Struhl G, et al. **Development** 1997 Jun;124(11):2155–65

Antagonism between EGFR and Wingless signalling in the larval cuticle of Drosophila. Szüts D, et al. **Development** 1997 Aug;124(16):3209–19

An actin-mediated two-step mechanism is required for ventral enclosure of the C. elegans hypodermis. Williams-Masson EM, et al. **Development** 1997 Aug; 124(15):2889–901

Concentration-dependent patterning of the Xenopus ectoderm by BMP4 and its signal transducer Smad1. Wilson PA, et al. **Development** 1997 Aug;124(16):3177–84

An anteroposterior Dorsal gradient in the Drosophila embryo. Huang AM, et al. **Genes Dev** 1997 Aug 1; 11(15):1963–73

Micrometer resolution silane-based patterning of hippocampal neurons: critical variables in photoresist and laser ablation processes for substrate fabrication. Corey JM, et al. **IEEE Trans Biomed Eng** 1996 Sep;43(9):944–55

Pattern formation in the urodele mechanoreceptive lateral line: what features can be exploited for the study of development and evolution? Smith SC. **Int J Dev Biol** 1996 Aug;40(4):727–33 (41 ref.)

A conceptual framework for analyzing axial patterning in regenerating urodele limbs. Stocum DL. **Int J Dev Biol** 1996 Aug;40(4):773–83 (108 ref.)

Accurate reading of morphogen concentrations by nuclear receptors: a formal model of complex transduction pathways. Kerszberg M. **J Theor Biol** 1996 Nov 7; 183(1):95–104

Negative regulation of dorsal patterning in early embryos by overexpression of XrelA, a Xenopus homologue of NF-kappa B. Kao KR, et al. **Mech Dev** 1996 Aug; 58(1–2):129–39

Beta-catenin translocation into nuclei demarcates the dorsalizing centers in frog and fish embryos. Schneider S, et al. **Mech Dev** 1996 Jul;57(2):191–8

Semaphorin III is needed for normal patterning and growth of nerves, bones and heart. Behar O, et al. **Nature** 1996 Oct 10;383(6600):525–8

Maintenance of somite borders in mice requires the Delta homologue DII1. Hrabě de Angelis M, et al. **Nature** 1997 Apr 17;386(6626):717–21

Initiation of vertebrate left-right axis formation by maternal Vg1. Hyatt BA, et al. **Nature** 1996 Nov 7;384(6604):62–5

Proximal-distal axis formation in the Drosophila leg. Lecuit T, et al. **Nature** 1997 Jul 10;388(6638):139–45

The zebrafish organizer requires chordino [letter] Schulte-Merker S, et al. **Nature** 1997 Jun 26; 387(6636):862–3

NIEHS/EPA Workshops. Pattern formation. Woychik R, et al. **Reprod Toxicol** 1997 Mar-Jun;11(2–3):339–44

BODY ROCKING see **STEREOTYPED BEHAVIOR**

BODY SIZE see **BODY CONSTITUTION**

BODY SURFACE AREA

Comparison of body surface and airway triggered ventilation in extremely premature infants. Laubscher B, et al. **Acta Paediatr** 1997 Jan;86(1):102–4

Comparison of computer-aided design and rule of nines methods in the evaluation of the extent of body involvement in cutaneous lesions [letter] Kanthraj GR, et al. **Arch Dermatol** 1997 Jul;133(7):922–3.

Calculation of drug dosage and body surface area of children. Lack JA, et al. **Br J Anaesth** 1997 May;78(5):601–5

Calculation of a new Meeh constant and experimental determination of burn size. Gilpin DA. **Burns** 1996 Dec; 22(8):607–11

How big is a hand? Rossiter ND, et al. **Burns** 1996 May; 22(3):230–1

Doppler echocardiographic study of three different mechanical valves in the aortic position: the use of external nominal diameter indexed to body surface area [see comments] Bailly P, et al. **J Heart Valve Dis** 1997 May; 6(3):236–48. Comment in: J Heart Valve Dis 1997 May;6(3):234.

Using the hand to estimate the surface area of a burn in children. Nagel TR, et al. **Pediatr Emerg Care** 1997 Aug; 13(4):254–5

The necessity of adjusting dialysate volume to body surface area in pediatric peritoneal equilibration tests. de Boer AW, et al. **Perit Dial Int** 1997 Mar-Apr;17(2):199–202

Peritoneal surface area and its permeability in rats. Kuzlan M, et al. **Perit Dial Int** 1997 May-Jun;17(3):295–300

Body surface area limitations in achieving adequate therapy in peritoneal dialysis patients. Rocco MV. **Perit Dial Int** 1996 Nov-Dec;16(6):617–22

Creatinine clearance in amputees on CPD: body surface area calculations [letter; comment] Tzamaloukas AH, et al. **Perit Dial Int** 1996 Jul-Aug;16(4):426. Comment on: Perit Dial Int 1994;14(4):356–61.

Estimating the surface area of the human body. Bailey BJ, et al. **Stat Med** 1996 Jul 15;15(13):1325–32

[Surface law and allometric analysis of functions] Günther B, et al. **Rev Med Chil** 1996 Oct;124(10):1261–72 (25 ref.) (Eng. Abstr.) **(Spa)**

BODY SURFACE MAPPING see **BODY SURFACE POTENTIAL MAPPING**

BODY SURFACE POTENTIAL MAPPING

The uniform double layer model and myocardial infarction: forward solution consideration. Tiňová M, et al. **Bratisl Lek Listy** 1996 Sep;97(9):558–61

Model study of influence of extracardial factors on the inverse localization of preexcitation sites. Turzová M, et al. **Bratisl Lek Listy** 1996 Sep;97(9):562–6

Evaluation of body surface potential mapping changes after successful percutaneous transluminal coronary angioplasty. Boudík F, et al. **Can J Cardiol** 1996 Aug;12(8):745–9

Repolarization and the genesis of cardiac arrhythmias. Role of body surface mapping [editorial; comment] Fontaine G, et al. **Circulation** 1997 Jun 17;95(12):2600–2 (20 ref.). Comment on: Circulation 1997 Jun 17;95(12):2668–76.

Body-surface QRST integral mapping. Arrhythmogenic righ ventricular dysplasia versus idiopathic right ventricular tachycardia [see comments] Peeters HA, et al. **Circulation** 1997 Jun 17;95(12):2668–76. Comment in: Circulation 1997 Jun 17;95(12):2600–2.

Unravelling the electrical mysteries of atrial fibrillation. Allessie MA, et al. **Eur Heart J** 1996 Jul;17 Suppl C:2–9 (5 ref.)

ECG-manifest and ECG-silent dipyridamole technetium-99m sestamibi SPET perfusion defects in patients with ischaemic heart disease. Galli M, et al. **Eur J Nucl Med** 1997 Feb;24(2):160–9

A new method for myocardial activation imaging. Huiskamp G, et al. **IEEE Trans Biomed Eng** 1997 Jun;44(6):433–46

The effects of inhomogeneities and anisotropies on electrocardiographic fields: a 3-D finite-element study. Klepfer RN, et al. **IEEE Trans Biomed Eng** 1997 Aug; 44(8):706–19

Generalized eigensystem techniques for the inverse problem of electrocardiography applied to a realistic heart-torso geometry. Throne RD, et al. **IEEE Trans Biomed Eng** 1997 Jun;44(6):447–54

Behavior of late potentials on the body surface during programmed ventricular stimulation. Ho DS, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1283–91

Electrocardiographic patterns and results of radiofrequency catheter ablation of clockwise type I atrial flutter. Saoudi N, et al. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):931–42

Body surface mapping criteria for diagnosis of left ventricular hypertrophy associated with complete right bundle branch block. Song Y, et al. **J Electrocardiol** 1996 Oct;29(4):279–88

The ventricular gradient and altered ventricular activation patterns. Shimizu Y, et al. **Jpn Heart J** 1997 May; 38(3):361–8

Mapping reentry around atriotomy scars using double potentials. Chinitz LA, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1978–83

Optimal lead selection for detection of ST segment shifts. Fuller MS, et al. **Pacing Clin Electrophysiol** 1996 Jun; 19(6):920–8

T wave alternans in idiopathic long-QT syndrome: insight from body surface mapping. Shimizu W, et al. **Pacing Clin Electrophysiol** 1996 Jul;19(7):1130–3

Body surface isopotential T map for assessment of right ventricular volume and pressure overloads in secundum atrial septal defect. Nakasato M, et al. **Pediatr Cardiol** 1996 Jul-Aug;17(4):237–41

[Body surface cardiac mapping] Hayashi H. **Nippon Rinsho** 1997 Mar;55 Suppl 1:536–40 (12 ref.) **(Jpn)**

[Body surface mapping] Hayashi H. **Nippon Rinsho** 1996 Aug; 54(8):2091–8 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Left bundle branch block analysis by body surface mapping. Comparison with electrocardiographic and vectocardiographic findings] Pastore CA, et al.

Arq Bras Cardiol 1996 May;66(5):253–6 (Eng. Abstr.) **(Por)**
[The formation of cardiac-electric-field potentials on the surface of the heart and torso in vertebrate animals] Shmakov DN, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):51–8 (29 ref.) (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Application of mapping of cardiac electrical activity to the pharmacology. D'Alché EP. **Acta Cardiol** 1996; 51(5):381–94

INSTRUMENTATION

Cardiac mapping. Zickler P. **Biomed Instrum Technol** 1997 Mar–Apr;31(2):173–5
Nonuniform anisotropy is responsible for age-related slowing of atrioventricular nodal reentrant tachycardia. Anselme F, et al. **J Cardiovasc Electrophysiol** 1996 Dec; 7(12):1145–53
Multipolar endocardial mapping of the right heart using a basket catheter: acute and chronic animal studies. Triedman JK, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):51–9

METHODS

Technical features of a CCD video camera system to record cardiac fluorescence data. Baxter WT, et al.
Ann Biomed Eng 1997 Jul–Aug;25(4):713–25
A comparison of volume conductor effects on body surface Laplacian and potential ECGS: a model study. He B, et al. **Comput Biol Med** 1997 Mar;27(2):117–27
Body surface Laplacian electrocardiographic mapping—a review. He B, et al. **Crit Rev Biomed Eng** 1995; 23(5–6):475–510 (100 ref.)
Perfusion heterogeneity in syndrome X [letter; comment] Boudík F, et al. **Eur Heart J** 1996 Nov;17(11):1759–60. Comment on: Eur Heart J 1995 Nov;16(11):1571–7.
Epicardial right atrial free wall mapping in chronic atrial fibrillation. Documentation of repetitive activation with a focal spread—a hitherto unrecognised phenomenon in man [see comments] Holm M, et al. **Eur Heart J** 1997 Feb; 18(2):290–310. Comment in: Eur Heart J 1997 Feb;18(2):186–7.
A bioelectric inverse imaging technique based on surface Laplacians. He B, et al. **IEEE Trans Biomed Eng** 1997 Jul; 44(7):529–38
The Laplacian inverse problem of electrocardiography: an eccentric spheres study. Johnston PR.
IEEE Trans Biomed Eng 1997 Jul;44(7):539–48
A new method for regularization parameter determination in the inverse problem of electrocardiography. Johnston PR, et al. **IEEE Trans Biomed Eng** 1997 Jan;44(1):19–39
Magnetocardiography and 32-lead potential mapping: repolarization in normal subjects during pharmacologically induced stress. Brockmeier K, et al.
J Cardiovasc Electrophysiol 1997 Jun;8(6):615–26
A new technique to perform epicardial mapping in the electrophysiology laboratory [see comments] Sosa E, et al. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):531–6. Comment in: J Cardiovasc Electrophysiol 1996 Jun;7(6):537–8.
Pericardial space exploration for ventricular tachycardia mapping: should the countdown begin? [comment] Strickberger SA. **J Cardiovasc Electrophysiol** 1996 Jun; 7(6):537–8 (4 ref.). Comment on: J Cardiovasc Electrophysiol 1996 Jun;7(6):531–6.
Spatial coherence: a new method of quantifying myocardial electrical organization using multichannel epicardial electrograms. Fendelander L, et al. **J Electrocardiol** 1997 Jan;30(1):9–19
Measuring spatial waves of repolarization in canine ventricles using high-resolution epicardial mapping. Lux RL, et al. **J Electrocardiol** 1996;29 Suppl:130–4
Evaluation of novel measurement methods for detecting heterogeneous repolarization. MacLeod RS, et al.
J Electrocardiol 1996;29 Suppl:145–53
High-density endocardial activation mapping of the right atrium in three dimensions by composition of multielectrode catheter recordings. Triedman JK, et al.
J Electrocardiol 1996;29 Suppl:234–40
[Use of body surface heart potential mapping for registration of electrical phenomenal in the atrium] Kalka D, et al.
Pol Arch Med Wewn 1996 Sep;96(3):234–41 (Eng. Abstr.) **(Pol)**

STATISTICS & NUMERICAL DATA

Temporal and spatial analysis of potential maps via multiresolution decompositions. Brooks DH, et al.
J Electrocardiol 1996;29 Suppl:114–24 (20 ref.)

BODY TEMPERATURE

see related
FEVER
THERMOGRAPHY
THERMOMETERS

Thermal effects of neutralization therapy and water dilution for acute alkali exposure in canines. Homan CS, et al.
Acad Emerg Med 1997 Jan;4(1):27–32
Comparison of body temperature changes during laparoscopic and open cholecystectomy. Mäkinen MT.
Acta Anaesthesiol Scand 1997 Jun;41(6):736–40
Is there any relative importance of temperature adapted coagulation monitoring? Sitzwohl C, et al.
Acta Anaesthesiol Scand Suppl 1996;109:76–7
Skin microcirculation before and after local warming in infants delivered vaginally or by caesarean section. Martin H, et al. **Acta Paediatr** 1997 Mar;86(3):261–7
Effects of handling and physical restraint on rectal temperature, cortisol, glucose and leucocyte counts in the silver fox (Vulpes vulpes). Moe RO, et al.
Acta Vet Scand 1997;38(1):29–39
Acupuncture needles and the Seebeck effect: do temperature gradients produce electrostimulation? Cohen M, et al.
Acupunct Electrother Res 1997;22(1):9–15
Voluntary control of vascular tone by using skin-temperature biofeedback-relaxation in patients with advanced heart failure [see comments] Moser DK, et al.
Altern Ther Health Med 1997 Jan;3(1):51–9. Comment in: Altern Ther Health Med 1997 May;3(3):18, 21.
Oral and tympanic temperatures as heat strain indicators for workers wearing chemical protective clothing. Beaird JS, et al. **Am Ind Hyg Assoc J** 1996 Apr;57(4):344–7
Effect of facial cooling on tympanic temperature. Thomas KA, et al. **Am J Crit Care** 1997 Jan;6(1):46–51
A difference of 5 degrees C between ear and rectal temperatures in a febrile patient. Romanovsky AA, et al.
Am J Emerg Med 1997 Jul;15(4):383–5
In vitro comparison of debonding force and intrapulpal temperature changes during ceramic orthodontic bracket removal using a carbon dioxide laser. Ma T, et al.
Am J Orthod Dentofacial Orthop 1997 Feb;111(2):203–10
Increase in ambient temperature may explain decrease in amniotic fluid index. Sciscione AC, et al.
Am J Perinatol 1997 May;14(5):249–51
Hemodynamic and thermal responses to head and neck cooling in men and women. Ku YT, et al.
Am J Phys Med Rehabil 1996 Nov–Dec;75(6):443–50
Body cooling may not improve somatosensory pathway function in multiple sclerosis. Robinson LR, et al.
Am J Phys Med Rehabil 1997 May–Jun;76(3):191–6
Natural hypothermia and sleep deprivation: common effects on recovery sleep in the Djungarian hamster. Deboer T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1364–71
Effect of temperature on myocardial infarction in swine. Duncker DJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1189–99
Influence of elevated muscle temperature on metabolism during intense, dynamic exercise. Febbraio MA, et al.
Am J Physiol 1996 Nov;271(5 Pt 2):R1251–5
Enzyme adaptation along a heterothermic tissue: the visceral retia mirabilia of the bluefin tuna. Fudge DS, et al.
Am J Physiol 1997 Jun;272(6 Pt 2):R1834–40
Myocardial temperature in acute myocardial infarction: protection with mild regional hypothermia. Hale SL, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H220–7
Shortening heat in slow- and fast-twitch muscles of the rat. Holroyd SM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C293–7
Alterations in composition and function of surfactant associated with torpor in Sminthopsis crassicaudata. Langman C, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R437–45
Selective brain cooling: role of angularis oculi vein and nasal thermoreception. Maloney SK, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1108–16
Manipulation of potential perinatal zeitgebers for the juvenile circadian temperature rhythm in rats.
Nuesslein-Hildesheim B, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):R1388–95
Nocturnal melatonin onset is phase locked to the primary sleep gate. Shochat T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R364–70
Twenty-four-hour melatonin and core body temperature rhythms: their adaptation in night workers. Weibel L, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R948–54
A rapid increase in foot tissue temperature predicts cardiovascular collapse during anaphylactic and anaphylactoid reactions. Kotani N, et al. **Anesthesiology** 1997 Sep;87(3):559–68
Rectal temperature in marathon runners [letter; comment] Ash CJ, et al. **Ann Emerg Med** 1997 May;29(5):693. Comment on: Ann Emerg Med 1996 Oct;28(4):414–7.
Evaluation of infrared tympanic thermometers during normothermia and hypothermia in humans. Ducharme MB, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:225–9
Fever, temperature, and the immune response. Hanson DF.
Ann N Y Acad Sci 1997 Mar 15;813:453–64
Soluble tumor necrosis factor alpha receptor prevents decrease of body temperature in mice treated with indomethacin and lipopolysaccharide. Kozak W, et al.
Ann N Y Acad Sci 1997 Mar 15;813:264–71
Re: UltraPulse carbon dioxide laser with computer pattern generator for facial cosmetic surgery and resurfacing [letter; comment] Shakespeare PG, et al.
Ann Plast Surg 1997 May;38(5):547–50. Comment on: Ann Plast Surg 1996 May;36(5):522–9.
Body temperature is a poor predictor of malaria parasitaemia in children with acute diarrhoea. Gbadegesin RA, et al.
Ann Trop Paediatr 1997 Mar;17(1):89–94
Higher rectal temperatures in co-sleeping infants. Tuffnell CS, et al. **Arch Dis Child** 1996 Sep;75(3):249–50
The pacifier thermometer. Comparison of supralingual with rectal temperatures in infants and young children [see comments] Press S, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):551–4. Comment in: Arch Pediatr Adolesc Med 1997 Jun;151(6):543–4.
Reliability of infra-red tympanic thermometry (ITT). Smith DL, et al. **Aviat Space Environ Med** 1996 Mar;67(3):272–4
Circadian temperature and cortisol rhythms during a constant routine are phase-delayed in hypersomnic winter depression. Avery DH, et al. **Biol Psychiatry** 1997 Jun 1; 41(11):1109–23
Effect of temperature during cardiopulmonary bypass on gastric mucosal perfusion. Croughwell ND, et al.
Br J Anaesth 1997 Jan;78(1):34–8
Effects of ambient temperature, age and wind speed on the thermal balance of layer-strain fowls. Tzschentke B, et al.
Br Poult Sci 1996 Jul;37(3):501–20
Correlation between thermosensor temperature and transrectal ultrasonography during prostate cryoablation. Steed J, et al. **Can Assoc Radiol J** 1997 Jun;48(3):186–90
Comparison of distal oesophageal temperature with "deep" and tracheal temperatures. Matsukawa T, et al.
Can J Anaesth 1997 Apr;44(4):433–8
Heat conservation vs convective warming in adults undergoing elective surgery. Patel N, et al.
Can J Anaesth 1997 Jun;44(6):669–73
Amplitude reduction of the circadian temperature and sleep rhythms in the elderly. Carrier J, et al. **Chronobiol Int** 1996 Nov;13(5):373–86
The difference between activity when in bed and out of bed. II. Subjects on 27-hour "days". Minors D, et al.
Chronobiol Int 1996 Aug;13(3):179–90
The shape of the endogenous circadian rhythm of rectal temperature in humans. Minors DS, et al.
Chronobiol Int 1996 Oct;13(4):261–71
Myocardial infarct size limiting effect of low body temperature in rats depends on the duration of coronary artery occlusion [letter; comment] Gho BC, et al.
Circulation 1997 Aug 5;96(3):1064. Comment on: Circulation 1996 Nov 1;94(9):2193–200.
Subendocardial and intramural temperature response during radiofrequency catheter ablation in chronic myocardial infarction and normal myocardium. Kottkamp H, et al.
Circulation 1997 Apr 15;95(8):2155–61
Sensitivity of objective parameters in the diagnosis of pediatric septic hips. Klein DM, et al. **Clin Orthop** 1997 May;(338):153–9
Kinetic characterization of myoglobins from vertebrates with vastly different body temperatures. Cashon RE, et al.
Comp Biochem Physiol B Biochem Mol Biol 1997 Aug; 117(4):613–20
Lipid peroxidation and ascorbic acid status in respiratory organs of male and female freshwater catfish Heteropneustes fossilis exposed to temperature increase. Parihar MS, et al.
Comp Biochem Physiol C Pharmacol Toxicol Endocrinol 1995 Nov;112(3):309–13
Influence of culture duration and ciliogenesis on the relationship between ciliary beat frequency and temperature in nasal epithelial cells. Jorissen M, et al.
Eur Arch Otorhinolaryngol 1995;252(8):451–4
Temperatures measured by a deep body thermometer (Coretemp) compared with tissue temperatures measured at various depths using needles placed into the sole of the foot. Matsukawa T, et al. **Eur J Anaesthesiol** 1996 Jul; 13(4):340–5
Effect of posture on body temperature of young men in cold air [published erratum appears in Eur J Appl Physiol 1996;74(1–2):194] Donaldson GC, et al.
Eur J Appl Physiol 1996;73(3–4):326–31
Post-exercise thermal homeostasis as a function of changes in pre-exercise core temperature. Kenny GP, et al.
Eur J Appl Physiol 1996;74(3):258–63
Effects of leg covering in humans on muscle activity and thermal responses in a cool environment. Rissanen S, et al. **Eur J Appl Physiol** 1996;73(1–2):163–8
General and local cold responses in humans after 2 weeks at high altitude. Savourey G, et al. **Eur J Appl Physiol** 1997;75(1):28–33
Modern electronic and chemical thermometers used in the axilla are inaccurate. Zengeya ST, et al. **Eur J Pediatr** 1996 Dec;155(12):1005–8
Nutrition, temperature and homeostasis during perinatal development. Symonds ME, et al. **Exp Physiol** 1995 Nov; 80(6):907–40 (155 ref.)
Regulation of the 24-hour rhythm of body temperature in menstrual cycles with spontaneous and gonadotropin-induced ovulation. Cagnacci A, et al.
Fertil Steril 1997 Sep;68(3):421–5
Effect of increased scrotal temperature on sperm production in normal men. Wang C, et al. **Fertil Steril** 1997 Aug; 68(2):334–9
Concerning the paper by Baccino et al., entitled: 'Outer ear temperature and time of death' (Forensic Sci. Int., 83 (1996) 133–146) [letter] Rutty GN. **Forensic Sci Int** 1997 Jun 6; 87(2):171–3
Graafian follicles are cooler than neighbouring ovarian tissues and deep rectal temperatures. Hunter RH, et al.
Hum Reprod 1997 Jan;12(1):95–100
Accuracy of chemical dot thermometers in critically ill adults and young children. Erickson RS, et al.
Image J Nurs Sch 1996 Spring;28(1):23–8

Temperature monitoring. Young CC, et al. **Int Anesthesiol Clin** 1996 Summer;34(3):149–74 (50 ref.)

Oral temperatures of the elderly in nursing homes in summer and winter in relation to activities of daily living. Nakamura K, et al. **Int J Biometeorol** 1997 Apr;40(2):103–6

A new basal body temperature 5 h after nocturnal sleep onset. Eldor J. **Int J Gynaecol Obstet** 1996 Oct;55(1):73–4

Intraspinal temperatures during regional deep hyperthermia induced by electromagnetic radiation in the Macaca mulatta. van der Zee J, et al. **Int J Hyperthermia** 1997 Mar–Apr;13(2):149–55

Temperature rise during drilling through bone. Abouzgia MB, et al. **Int J Oral Maxillofac Implants** 1997 May–Jun; 12(3):342–53 (31 ref.)

The effect of speed, pressure, and time on bone temperature during the drilling of implant sites. Brisman DL. **Int J Oral Maxillofac Implants** 1996 Jan–Feb;11(1):35–7

Heat generation during implant site preparation: an in vitro study. Cordioli G, et al. **Int J Oral Maxillofac Implants** 1997 Mar–Apr;12(2):186–93

Accuracy of infrared ear thermometry in adult patients. Stavem K, et al. **Intensive Care Med** 1997 Jan;23(1):100–5

Dependence of ultrasonic attenuation and absorption in dog soft tissues on temperature and thermal dose. Damianou CA, et al. **J Acoust Soc Am** 1997 Jul;102(1):628–34

Noninvasive temperature estimation in tissue via ultrasound echo-shifts. Part I. Analytical model. Maass-Moreno R, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2514–21

Noninvasive temperature estimation in tissue via ultrasound echo-shifts. Part II. In vitro study. Maass-Moreno R, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2522–30

Thermal and circulatory responses during exercise: effects of hypohydration, dehydration, and water intake. Armstrong LE, et al. **J Appl Physiol** 1997 Jun;82(6):2028–35

Invited editorial on "Airway thermal volume in humans and its relation to body size" [editorial] McFadden ER Jr. **J Appl Physiol** 1997 Aug;83(2):331–2 (18 ref.)

Airway thermal volume in humans and its relation to body size. Serikov VB, et al. **J Appl Physiol** 1997 Aug; 83(2):668–76

Estimating the endogenous circadian temperature rhythm without keeping people awake. Carrier J, et al. **J Biol Rhythms** 1997 Jun;12(3):266–77

Temperature distributions during thermoradiotherapy: a sensitivity study with a transient numerical model of the rabbit eye. Tompkins DT, et al. **J Biomech Eng** 1997 May; 119(2):153–8

Topical ice slurry prevents brain rewarming during deep hypothermic circulatory arrest in newborn sheep. Brooker RF, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):591–4

Randomized comparison of two techniques for titrating power during radiofrequency ablation of accessory pathways. Strickberger SA, et al. **J Cardiovasc Electrophysiol** 1996 Sep;7(9):795–801

Noninvasive measurements of human brain temperature using volume-localized proton magnetic resonance spectroscopy. Corbett R, et al. **J Cereb Blood Flow Metab** 1997 Apr; 17(4):363–9

The effects of forced-air warming on postbypass central and skin temperatures and shivering activity. Mort TC, et al. **J Clin Anesth** 1996 Aug;8(5):361–70

Comparison of tympanic, esophageal and blood temperatures during mild hypothermic cardiopulmonary bypass: a study using an infrared emission detection tympanic thermometer. Harasawa K, et al. **J Clin Monit** 1997 Jan;13(1):19–24

Monitoring body-core temperature from the trachea: comparison between pulmonary artery, tympanic, esophageal, and rectal temperatures. Hayes JK, et al. **J Clin Monit** 1996 May;12(3):261–9

Continuous gastric suctioning decreases measured esophageal temperature during general anesthesia. Nelson EJ, et al. **J Clin Monit** 1996 Nov;12(6):429–32

Shortening of the photoperiod affects sleep distribution, EEG and cortical temperature in the Djungarian hamster. Deboer T, et al. **J Comp Physiol [A]** 1996 Oct;179(4):483–92

Body temperatures of free-living African penguins (Spheniscus demersus) and bank cormorants (Phalacrocorax neglectus). Wilson RP, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2215–23

Kinetics of bicarbonate transport in human red blood cell membranes at body temperature. Gasbjerg PK, et al. **J Gen Physiol** 1996 Dec;108(6):565–75

Relative bradycardia in infectious diseases. Ostergaard L, et al. **J Infect** 1996 Nov;33(3):185–91

Exercise-induced hyperthermia may prevent accurate core temperature measurement by tympanic membrane thermometer. Yeo S, et al. **J Nurs Meas** 1996 Winter; 4(2):143–51

Body temperatures and oxygen consumption during skin-to-skin (kangaroo) care in stable preterm infants weighing less than 1500 grams. Bauer K, et al. **J Pediatr** 1997 Feb;130(2):240–4

A comparison of the tympanic and axillary temperatures of the preterm and term infant. Hicks MA. **J Perinatol** 1996 Jul–Aug;16(4):261–7

Comparative aspects of the pineal/melatonin system of poikilothermic vertebrates. Filadelfi AM, et al. **J Pineal Res** 1996 May;20(4):175–86 (161 ref.)

Monitoring healing of acute Charcot's arthropathy with infrared dermal thermometry. Armstrong DG, et al. **J Rehabil Res Dev** 1997 Jul;34(3):317–21

Seasonal covariation of the circadian phases of rectal temperature and slow wave sleep onset. Van Dongen HP, et al. **J Sleep Res** 1997 Mar;6(1):19–25

The effects of cardiopulmonary bypass temperature on neuropsychologic outcome after coronary artery operations: a prospective randomized trial [see comments] Regragui I, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):1036–45. Comment in: J Thorac Cardiovasc Surg 1997 Jul;114(1):146–7.

Iliac vessel injury: operative physiology related to outcome. Cushman JG, et al. **J Trauma** 1997 Jun;42(6):1033–40

The use of a tympanic membrane thermometer for assessing hyperthermia in bighorn sheep. Drew ML. **J Wildl Dis** 1996 Jul;32(3):512–6

Perioperative maintenance of normal temperature [letter; comment] Berry AJ. **JAMA** 1997 Aug 20;278(7):545; discussion 545–6. Comment on: JAMA 1997 Apr 9;277(14):1127–34.

Should normothermia be maintained during major surgery? [editorial; comment] Cheney FW. **JAMA** 1997 Apr 9; 277(14):1165–6. Comment on: JAMA 1997 Apr 9;277(14):1127–34.

Perioperative maintenance of normothermia reduces the incidence of morbid cardiac events. A randomized clinical trial [see comments] Frank SM, et al. **JAMA** 1997 Apr 9;277(14):1127–34. Comment in: **JAMA** 1997 Apr 9;277(14):1165–6. Comment in: **JAMA** 1997 Aug 20;278(7):545; discussion 545–6.

Perioperative maintenance of normal temperature [letter; comment] Kempen PM. **JAMA** 1997 Aug 20;278(7):545; discussion 545–6. Comment on: JAMA 1997 Apr 9;277(14):1127–34.

Effect of warming of exercising legs on exercise capacity in patients with impaired exercise tolerance. Yamanouchi T, et al. **Jpn Heart J** 1996 Nov;37(6):855–63

Hot shots inside the body. Jack D. **Lancet** 1997 Sep 13; 350(9080):790

Thermal modelling of micropulsed diode laser retinal photocoagulation. Berger JW. **Lasers Surg Med** 1997; 20(4):409–15

Effect of brain, body, and magnet bore temperatures on energy metabolism during global cerebral ischemia and reperfusion monitored by magnetic resonance spectroscopy in rats. Shimizu H, et al. **Magn Reson Med** 1997 Jun; 37(6):833–9

Body temperature and nesting behavior following influenza challenge in mice: effects of age. Bender BS, et al. **Mech Ageing Dev** 1996 Jan 5;86(1):1–9

Monitoring rectal core temperature in marathon swimmers. Finlay JB, et al. **Med Biol Eng Comput** 1996 Jan; 34(1):97–100

Improved running performance in hot humid conditions following whole body precooling. Booth J, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):943–9

Effects of body core temperature reduction on haemodynamic stability and haemodialysis efficacy at constant ultrafiltration. Levin NW, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:31–4

The effect of environment on body site temperatures in full-term neonates. Cusson RM, et al. **Nurs Res** 1997 Jul–Aug;46(4):202–7

Effect of temperature elevation on rabbit cochlear function as measured by distortion-product otoacoustic emissions. Noyes WS, et al. **Otolaryngol Head Neck Surg** 1996 Dec; 115(6):548–52

Children with unilateral acute otitis media may have a temperature differential when both ears are measured by an infrared ear thermometer [letter] Simon MW. **Pediatr Emerg Care** 1996 Aug;12(4):324

Individual differences in body temperature assessed by a two-term function. Almirall H, et al. **Percept Mot Skills** 1996 Aug;83(1):67–79

Fingertip temperature during cardiopulmonary bypass. Johnson J, et al. **Perfusion** 1997 Mar;12(2):120–6

The thermal biology of digestion in rubber boas (Charina bottae): physiology, behavior, and environmental constraints. Dorcas ME, et al. **Physiol Zool** 1997 May–Jun; 70(3):292–300

Seasonal adjustment of solar heat gain independent of coat coloration in a desert mammal. Walsberg GE, et al. **Physiol Zool** 1997 Mar–Apr;70(2):150–7

Mitochondrial alterations of skeletal muscle in a heat stress rat model. Hsu YD, et al. **Proc Natl Sci Counc Repub China B** 1995 Oct;19(4):233–9

Does nitric oxide mediate circulatory failure induced by 35-GHz microwave heating? Ryan KL, et al. **Shock** 1996 Jul;6(1):71–6

Reduction in testicular temperature after varicocelectomy in infertile men. Wright EJ, et al. **Urology** 1997 Aug; 50(2):257–9

[Taking the temperature] Erkelens DW. **Ned Tijdschr Geneeskd** 1997 May 10;141(19):924–5 (Eng. Abstr.) **(Dut)**

[Clinical thermometry. I. Historical developments] MacKenzie MA, et al. **Ned Tijdschr Geneeskd** 1997 May 10;141(19):954–6 (Eng. Abstr.) **(Dut)**

[Comparative measurements of oral and rectal temperatures in 224 hospitalized patients] Couilliet D, et al. **Ann Med Interne (Paris)** 1996;147(8):536–8 (Eng. Abstr.) **(Fre)**

[Temperature graph] Belaisch J. **Contracept Fertil Sex** 1996 Jan;24(1):15–7 (16 ref.) **(Fre)**

[Measurement of body temperature in daily practice] Mari I, et al. **Rev Med Interne** 1997;18(1):30–6 (61 ref.) (Eng. Abstr.) **(Fre)**

[Effects of preliminary muscular exercise on body temperature, water loss and physical performance] Mandengue SH, et al. **Sante** 1996 Nov–Dec;6(6):393–6 (Eng. Abstr.) **(Fre)**

[Infrared temperature measurement in the ear canal with the DIATEK 9000 Instatemp and the DIATEK 9000 Thermoguide. Comparison with methods of temperature measurement in other body parts] Fritz U, et al. **Anaesthesist** 1996 Nov;45(11):1059–66 (Eng. Abstr.) **(Ger)**

[Intraoperative heat conservation. A lot of hot air?] Scherer R. **Anaesthesist** 1997 Feb;46(2):81–90 (54 ref.) (Eng. Abstr.) **(Ger)**

[Otothermometry] Simon E. **Dtsch Med Wochenschr** 1997 May 2;122(18):597 **(Ger)**

[Measurement of skin temperature as a method of detecting febrile diseases in swine] Wendt M, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jan;104(1):29–33 (Eng. Abstr.) **(Ger)**

[Problems of laparoscopy using captoperitoneum: controlled ventilation, circulation, blood gas and body temperature] Hahn KH, et al. **Tierarztl Prax** 1997 May;25(3):192–7 (Eng. Abstr.) **(Ger)**

[The correlation between an increase in subgingival temperature and the concentration of volatile fatty acids of bacterial origin present in periodontal pockets] Eftimiadi C, et al. **Minerva Stomatol** 1996 May;45(5):189–96 (Eng. Abstr.) **(Ita)**

[Clinical significance of peak body temperature, white blood cell count, and C-reactive protein level in febrile episodes among geriatric inpatients] Ikematsu H, et al. **Kansenshoguku Zasshi** 1997 Jun;71(6):527–33 (Eng. Abstr.) **(Jpn)**

[A comparative study of three types of tympanic membrane temperature monitoring] Nishiyama T, et al. **Masui** 1996 Jul;45(7):892–5 (Eng. Abstr.) **(Jpn)**

[A new medium sized probe of the non-tactile type for tympanic membrane temperature monitoring] Nishiyama T, et al. **Masui** 1996 Sep;45(9):1164–7 (Eng. Abstr.) **(Jpn)**

[Remote thermometry of the human body at millimeter wavelengths] Kisliakov AG. **Biofizika** 1996 May–Jun; 41(3):755–61 **(Rus)**

[Devices for measuring the temperature of laboratory animals] Molodavkin GM. **Eksp Klin Farmakol** 1996 Sep–Oct;59(5):65–7 (Eng. Abstr.) **(Rus)**

[Thermal diagnostic methods in medicine] Vakulenko GA, et al. **Klin Khir** 1996;(11–12):42–9 (95 ref.) **(Rus)**

[Electric thermometers and transducers for measuring human body temperature] Fogel'son IB, et al. **Med Tekh** 1996 Jul–Aug;(4):28–30 (Eng. Abstr.) **(Rus)**

[The characteristics of the postmortem dynamics of human body temperature] Viter VI, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):11–3 (Eng. Abstr.) **(Rus)**

[Importance of correcting the temperature in the determination of arterial gasometry] Izquierdo M, et al. **Arch Bronconeumol** 1997 Feb;33(2):104–6 (Eng. Abstr.) **(Spa)**

[Body temperature variations during laparoscopic cholecystectomies (see comments)] Castillo V, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):201–3 (Eng. Abstr.). Comment in: Rev Esp Anestesiol Reanim 1997 Jan;44(1):41. **(Spa)**

[The effect of different morphological forms of kidney cancer on body temperature reaction] Tomusiak TL, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):166–7 **(Ukr)**

DRUG EFFECTS

Diminished neuronal damage in the rat brain by late treatment with the antipyretic drug dipyrone or cooling following cerebral ischemia. Coimbra C, et al. **Acta Neuropathol (Berl)** 1996 Nov;92(5):447–53

The effects of triiodothyronine (T3) on heart rate, temperature and ECG measured with telemetry in freely moving mice. Johansson C, et al. **Acta Physiol Scand** 1997 Jun;160(2):133–8

Interleukin-1 induces changes in sleep, brain temperature, and serotonergic metabolism. Gemma C, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R601–6

Repeated infusions of TNF-alpha cause attenuation of the thermal response and influence LPS fever in guinea pigs. Goldbach JM, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R749–54

Dissociation of temperature changes and anorexia after experimental colitis and LPS administration in rats. Larson SJ, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R967–72

Lysine acetylsalicylate modifies aphagia and thermogenic changes induced by lateral hypothalamic lesion. Monda M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1638–42

Mouse strain differences in ozone dosimetry and body temperature changes. Slade R, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L73–7

Body temperature and hypothalamic PGE2 response to LPS in developing rats. Kaplanski J, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:474–9

A comparison of the body temperature during sevoflurane anesthesia and isoflurane anesthesia. Saito T. **Ann N Y Acad Sci** 1997 Mar 15;813:786–8

The effect of selective and nonselective opioids on body temperature in cold-acclimated rats. Weinberg R, et al.

Ann N Y Acad Sci 1997 Mar 15;813:702–4

Demonstration of potent lipid–lowering activity by a thyromimetic agent devoid of cardiovascular and thermogenic effects. Stephan ZF, et al. **Atherosclerosis** 1996 Sep 27;126(1):53–63

Effect of amino acid infusion on body temperature during anaesthesia [letter; comment] Donmez A, et al. **Br J Anaesth** 1997 Mar;78(3):338–9. Comment on: Br J Anaesth 1996 Feb;76(2):227–34.

The role of TNF–alpha in fever: opposing actions of human and murine TNF–alpha and interactions with IL–beta in the rat. Stefferl A, et al. **Br J Pharmacol** 1996 Aug; 118(8):1919–24

Inhibition of NMDA–induced increase in brain temperature by N–omega–nitro–L–arginine and indomethacin in rats. Hara S, et al. **Brain Res** 1997 May 9;756(1–2):301–4

Hypothalamic and thalamic sites of action of interleukin–1 beta on food intake, body temperature and pain sensitivity in the rat. Sellami S, et al. **Brain Res** 1995 Oct 2; 694(1–2):69–77

Procaine microinjection into the lower midbrain increases brown fat and body temperatures in anesthetized rats. Shibata M, et al. **Brain Res** 1996 Apr 15;716(1–2):171–9

Caffeine and light effects on nighttime melatonin and temperature levels in sleep–deprived humans. Wright KP Jr, et al. **Brain Res** 1997 Jan 30;747(1):78–84

Chronic administration of imipramine and lithium changes the phase–angle relationship between the activity and core body temperature circadian rhythms in rats. Nagayama H. **Chronobiol Int** 1996 Oct;13(4):251–9

Effects of dantrolene on cooling times and cardiovascular parameters in an immature porcine model of heatstroke. Zuckerman GB, et al. **Crit Care Med** 1997 Jan;25(1):135–9

Antisense confirmation of mu– and kappa–opioid receptor mediation of morphine's effects on body temperature in rats. Chen XH, et al. **Drug Alcohol Depend** 1996 Dec 11; 43(3):119–24

Effect of acetazolamide on cerebral blood flow and tympanic temperature in healthy subjects and patients with subacute subarachnoid haemorrhage. Sugino F, et al. **Eur J Appl Physiol** 1997;75(3):252–5

Evaluation of ibuprofen versus aspirin and paracetamol on efficacy and comfort in children with fever. Autret E, et al. **Eur J Clin Pharmacol** 1997;51(5):367–71

Effects of carvedilol and atenolol on arterial pulse curves (plethysmography) and finger temperature after hand cooling. Klemsdal TO, et al. **Eur J Clin Pharmacol** 1996; 50(6):483–9

Effect of a high–fat diet on energy balance and thermic effect of food in hypothyroid rats [see comments] Iossa S, et al. **Eur J Endocrinol** 1997 Mar;136(3):309–15. Comment in: Eur J Endocrinol 1997 Mar;136(3):267–8.

Interleukin–1 receptor antagonist does not reverse lipopolysaccharide–induced inhibition of water intake in rat. Nava F, et al. **Eur J Pharmacol** 1996 Aug 15; 309(3):223–7

Central serotonin level–dependent changes in body temperature following administration of tryptophan to pargyline– and harmaline–pretreated rats. Abdel–Fattah AF, et al. **Gen Pharmacol** 1997 Mar;28(3):405–9

Hypothermia as an indicator of the acute effects of lipopolysaccharides: comparison with serum levels of IL1 beta, IL6 and TNF alpha. Blanqué R, et al. **Gen Pharmacol** 1996 Sep;27(6):973–7

Effect of aspartate and glutamate on nociception, catalepsy and core temperature in rats. Singh J, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):123–8

Effects of interleukin–10 on water intake, locomotory activity, and rectal temperature in rat treated with endotoxin. Nava F, et al. **Int J Immunopharmacol** 1997 Jan; 19(1):31–8

Use of the vasodilator sodium nitroprusside during local hyperthermia: effects on tumor temperature and tumor response in a rat tumor model. Krossnes BK, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):403–15

Suppressive action of endogenous adenosine on ovine fetal nonshivering thermogenesis. Ball KT, et al. **J Appl Physiol** 1996 Dec;81(6):2393–8

Influence of pregnancy on the febrile response to intracerebroventricular administration of PGE1 in rats. Stobie–Hayes KM, et al. **J Appl Physiol** 1996 Sep; 81(3):1312–5

Ozone toxicity in the mouse: comparison and modeling of responses in susceptible and resistant strains. Watkinson WP, et al. **J Appl Physiol** 1996 Jun;80(6):2134–42

Hormonal secretion patterns but not autonomic effector responses elicited by hypothalamic heating and cooling are altered in febrile rabbits. Keil R, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):193–201

Cortical protection by localized striatal injection of IL–1ra following cerebral ischemia in the rat. Stroemer RP, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):597–604

Influence of biological response modifiers: measurement of tumor blood flow and temperature. Li J, et al. **J Immunother** 1994 Oct;16(3):175–80

TJS–010, a new prescription of oriental medicine, enhances 8–OH–DPAT–induced effects in rats. Kagaya A, et al. **J Neural Transm** 1996;103(1–2):69–75

Effect of pindolol on hormone secretion and body temperature: partial agonist effects. Meltzer HY, et al. **J Neural Transm** 1996;103(1–2):77–88

Drug–induced hyperthermia in a patient with persistent vegetative state. Case report and review of the literature. Berlot G, et al. **J Neurosurg Sci** 1995 Sep;39(3):199–202

Human pharmacology of the opioid neuropeptide dynorphin A(1–13). Greenwald MK, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1154–63

Body temperature and analgesic effects of selective mu and kappa opioid receptor agonists microdialyzed into rat brain. Xin L, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):499–507

Day–time melatonin administration: effects on core temperature and sleep onset latency. Reid K, et al. **J Sleep Res** 1996 Sep;5(3):150–4

Effects of intracerebroventricular injection of histamine and its related compounds on rectal temperature in mice. Chen Z, et al. **Methods Find Exp Clin Pharmacol** 1995 Dec; 17(10):669–75

Cyclooxygenase–independent mechanisms are not involved in the antipyretic action of indomethacin in the prepubertal pig. Parrott RF, et al. **Methods Find Exp Clin Pharmacol** 1996 Jun;18(5):321–6

Genetic alteration of alpha 2C–adrenoceptor expression in mice: influence on locomotor, hypothermic, and neurochemical effects of dexmedetomidine, a subtype–nonselective alpha 2–adrenoceptor agonist. Sallinen J, et al. **Mol Pharmacol** 1997 Jan;51(1):36–46

Daily rhythms of heart rate, temperature and locomotor activity are modified by anaesthetics in rats: a telemetric study. Prudian F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):774–8

Endotoxin causes release of alpha–melanocyte–stimulating hormone in normal human subjects. Catania A, et al. **Neuroimmunomodulation** 1995 Sep–Oct;2(5):258–62

Conditioning of body temperature and natural killer cell activity with arecoline, a muscarinic cholinergic agonist. Ghanta VK, et al. **Neuroimmunomodulation** 1996 Jul–Aug; 3(4):233–8

Action of harman (1–methyl–beta–carboline) on the brain: body temperature and in vivo efflux of 5–HT from hippocampus of the rat. Adell A, et al. **Neuropharmacology** 1996;35(8):1101–7

TNF alpha mimics the endocrine but not the thermoregulatory responses of bacterial lipopolysaccharide (LPS): correlation with FOS–expression in the brain. Tolchard S, et al. **Neuropharmacology** 1996 Mar;35(3):243–8

Is MK–801 neuroprotection mediated by systemic hypothermia in the immature rat? Gilland E, et al. **Neuroreport** 1997 May 6;8(7):1603–5

NPY–Y1 receptor antisense injected centrally in rats causes hyperthermia and feeding. Lopez–Valpuesta FJ, et al. **Neuroreport** 1996 Nov 4;7(15–17):2781–4

Dexamethasone administered into organum vasculosum laminae terminalis of rabbits induced antipyresis via inhibiting nitric oxide pathway in situ. Lin MT, et al. **Neurosci Lett** 1997 Jul 11;230(1):53–6

Hypnotic and hypothermic effects of melatonin on daytime sleep in humans: lack of antagonism by flumazenil. Nave R, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):123–6

Effect of intravenous sodium amytal on cutaneous limb temperatures and sympathetic skin responses in normal subjects and pain patients with and without Complex Regional Pain Syndromes (type I and II). I. Mailis A, et al. **Pain** 1997 Mar;70(1):59–68

Pharmacological analysis of diisopropyl fluorophosphate: effects on core temperature, heart rate, and motor activity in the unrestrained rat. Gordon CJ. **Pharmacol Biochem Behav** 1996 Oct;55(2):185–94

Changes in locomotor activity, core temperature, and heart rate in response to repeated cocaine administration. Ansah TA, et al. **Physiol Behav** 1996 Nov;60(5):1261–7

Temperature–dependent effects of ephedrine in the cold. Carlisle HJ, et al. **Physiol Behav** 1996 Oct;60(4):1147–50

Centrally mediated vasodilation of the rat's tail by angiotensin II. Fregly MJ, et al. **Physiol Behav** 1996 Sep;60(3):861–5

Metabolic fuel availability influences thermoregulation in deer mice (Peromyscus maniculatus). Stamper JL, et al. **Physiol Behav** 1997 Apr;61(4):521–4

Effect of atenolol on nocturnal sleep and temperature in young men: reversal by pharmacological doses of melatonin. Van Den Heuvel CJ, et al. **Physiol Behav** 1997 Jun;61(6):795–802

Daily administration of m–chlorophenylpiperazine to healthy human volunteers rapidly attenuates many of its behavioral, hormonal, cardiovascular and temperature effects. Benjamin J, et al. **Psychopharmacology (Berl)** 1996 Sep; 127(2):140–9

alpha–Phenyl–N–tert–butyl nitrone attenuates methamphetamine–induced depletion of striatal dopamine without altering hyperthermia. Cappon GD, et al. **Synapse** 1996 Oct;24(2):173–81

[Effect of Chinese herbs on the circadian rhythm of body temperature and heart rate in rabbits with hypothyroidism (yang deficiency)] Xu M, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr;21(4):247–9 inside backcover (Eng. Abstr.) **(Chi)**

[Sevoflurane comparably decreases the threshold for thermoregulatory vasoconstriction as isoflurane] Atarashi K, et al. **Masui** 1996 Jul;45(7):818–23 (Eng. Abstr.) **(Jpn)**

[The effect of low–rose prostaglandin E1 on circulation, respiration and body temperature during surgical anesthesia] Hayashida M, et al. **Masui** 1997 Mar; 46(3):363–72 (Eng. Abstr.) **(Jpn)**

[The effect of prostaglandin E1 on body temperature, catecholamines and stress hormones during prolonged surgery] Okuda M, et al. **Masui** 1996 Jan;45(1):30–7 (Eng. Abstr.) **(Jpn)**

[Contribution of the midbrain raphe nuclei and locus ceruleus to realization of lithium hydrobutyrate rhythm modulating properties] Zamoshchina TA. **Eksp Klin Farmakol** 1997 May–Jun;60(3):16–9 (Eng. Abstr.) **(Rus)**

GENETICS

Effects of ethanol and temperature on NMDA receptor function in different mouse genotypes. Musleh W, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1299–304

IMMUNOLOGY

Plasticity of thymuses of ectothermic vertebrates [letter; comment] Ptytycz B, et al. **Immunol Today** 1996 Sep; 17(9):442. Comment on: Immunol Today 1994 Apr;15(4):192–3.

The immune system of ectothermic vertebrates. Flajnik MF. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):145–50 (33 ref.)

PHYSIOLOGY

Neuropathology of normothermic circulatory arrest in newborn dogs. Towfighi J, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):485–93

Effects of reduced muscle temperature on the oxygen uptake kinetics at the start of exercise. Shiojiri T, et al. **Acta Physiol Scand** 1997 Apr;159(4):327–33

Brain damage and temperature: cellular and molecular mechanisms. Dietrich WD, et al. **Adv Neurol** 1996; 71:177–94; discussion 194–7 (117 ref.)

Role of the nitric oxide pathway in hypoxia–induced hypothermia of rats. Branco LG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R967–71

Body temperature and sleep in intact and ovariectomized female rats. Li H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1753–8

Control of skin blood flow by whole body and local skin cooling in exercising humans. Pérgola PE, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H208–15

Inhibition of tumor necrosis factor prevents warming–induced sleep responses in rabbits. Takahashi S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1325–9

Agreement between rectal and tympanic membrane temperatures in marathon runners [see comments] Roth RN, et al. **Ann Emerg Med** 1996 Oct;28(4):414–7. Comment in: Ann Emerg Med 1997 May;29(5):693.

Thermal balance of man in water: prediction of deep body temperature change. Choi JS, et al. **Appl Human Sci** 1996 Jul;15(4):161–7

Control of liquid cooling garments: technical control of body heat storage. Hexamer M, et al. **Appl Human Sci** 1996 Jul; 15(4):177–85

Effects of lights of different color temperature on the nocturnal changes in core temperature and melatonin in humans. Morita T, et al. **Appl Human Sci** 1996 Sep; 15(5):243–6

Physiological and psychological effects of head heating during rest and work. Nagai Y, et al. **Appl Human Sci** 1996 Sep;15(5):227–37

Evidence of a role for nerve growth factor in the effect of sialoadenectomy on body temperature of parasite–infected mice. Aloe L, et al. **Arch Oral Biol** 1996 Jan;41(1):21–6

Prediction of responses to cold. Holmér I. **Arctic Med Res** 1995;54 Suppl 2:48–54 (34 ref.)

Pump power loss and heat generation in a pivot bearing–supported Gyro centrifugal pump (C1E3). Takami Y, et al. **Artif Organs** 1996 Jul;20(7):794–7

Infrared tympanic temperature as a predictor of rectal temperature in warm and hot conditions. Hansen RD, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1048–52

Prediction of survival time at sea based on observed body cooling rates. Tikuisis P. **Aviat Space Environ Med** 1997 May;68(5):441–8

Effect of prolonged fasting and subsequent refeeding on free–running rhythms of temperature and locomotor activity in rats. Challet E, et al. **Behav Brain Res** 1997 Mar; 84(1–2):275–84

Association between raised body temperature and acute mountain sickness: cross sectional study. Maggiorini M, et al. **BMJ** 1997 Aug 16;315(7105):403–4

The influence of temperature on changes in pH, lactate and morphology during testicular ischaemia. Kallerhoff M, et al. **Br J Urol** 1996 Sep;78(3):440–5

Effects of heat production attributable to forced walking on thermoregulatory physiological responses of chickens in a warm environment. Zhou W, et al. **Br Poult Sci** 1996 Sep;37(4):829–40

Ventromedial nuclei of the hypothalamus are involved in the phase advance of temperature and activity rhythms in food–restricted rats fed during daytime. Challet E, et al. **Brain Res Bull** 1997;43(2):209–18

Food deprivation and hypothermia in desynchronized sleep–deprived rats. Hoshino K. **Braz J Med Biol Res** 1996 Jan;29(1):41–6

Oxygen as a modulator of body temperature. Wood SC. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1249–56 (62 ref.)

BODY TEMPERATURE

Influence of carotid denervation on the body-core temperature and metabolic responses to changes in ambient temperature during normoxemia and acute hypoxemia in guinea pigs during postnatal maturation. Fewell JE, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):104–11

Thermal activation of the bovine Hsc70 molecular chaperone at physiological temperatures: physical evidence of a molecular thermometer. Leung SM, et al. **Cell Stress Chaperones** 1996 Apr;1(1):78–89

Is atelectasis following aortocoronary bypass related to temperature? Thomas JA, et al. **Chest** 1997 May; 111(5):1290–4

Temperature rhythm of patients with major affective disorders: reduced circadian period length. Bicakova-Rocher A, et al. **Chronobiol Int** 1996 May; 13(1):47–57

The effect on body temperature and melatonin of a 39-h constant routine with two different light levels at nighttime. Foret J, et al. **Chronobiol Int** 1996 May;13(1):35–45

Dissociation of body-temperature and melatonin secretion circadian rhythms in patients with chronic fatigue syndrome. Williams G, et al. **Clin Physiol** 1996 Jul; 16(4):327–37

Energy cost and thermoregulation of unrestrained rats during exercise in the cold. Mäkinen T, et al. **Comp Biochem Physiol A Physiol** 1996 May;114(1):57–63

Effect of mild cold exposure on whole-body and net hindquarters glucose metabolism in sheep. Sano H, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):95–8

An updated basal body temperature method. Frank E, et al. **Contraception** 1996 Nov;54(5):319–21

Body temperature (37 C) specifically down-regulates the messenger ribonucleic acid for the major sperm surface antigen CD52 in epididymal cell culture. Pera I, et al. **Endocrinology** 1996 Oct;137(10):4451–9

Thermal status of wet-suited divers using closed circuit O2 apparatus in sea water of 17–18.5 degrees C. Arieli R, et al. **Eur J Appl Physiol** 1997;76(1):69–74

The effect of a rise in body temperature on the central-chemoreflex ventilatory response to carbon dioxide. Baker JF, et al. **Eur J Appl Physiol** 1996; 72(5–6):537–41

Physiological and subjective responses to thermal transients of exercising subjects dressed in cold-protective clothing. Gavhed DC, et al. **Eur J Appl Physiol** 1996;73(6):573–81

Influence of angiotensin II blockade during exercise in the heat. Mittleman KD. **Eur J Appl Physiol** 1996; 72(5–6):542–7

Relationship between core temperature and skin blood flux in lower limbs during prolonged arm exercise in persons with spinal cord injury. Muraki S, et al. **Eur J Appl Physiol** 1996;72(4):330–4

The effect of postural changes on body temperatures and heat balance. Tikuisis P, et al. **Eur J Appl Physiol** 1996; 72(5–6):451–9

The effect of water leakage on the results obtained from human and thermal manikin tests of immersion protective clothing. Tipton MJ, et al. **Eur J Appl Physiol** 1996; 72(5–6):394–400

Thermal responses to light, moderate and heavy daily outdoor work in cold weather. Virokannas H. **Eur J Appl Physiol** 1996;72(5–6):483–9

Interrupted warm blood cardioplegia [letter; comment] Ali IM. **Eur J Cardiothorac Surg** 1996;10(6):480. Comment on: Eur J Cardiothorac Surg 1995;9(3):133–8.

Aging and human heat tolerance. Pandolf KB. **Exp Aging Res** 1997 Jan-Mar;23(1):69–105 (73 ref.)

Aging and human cold tolerance. Young AJ, et al. **Exp Aging Res** 1997 Jan-Mar;23(1):45–67 (65 ref.)

Blunting the rise in body temperature reduces muscle glycogenolysis during exercise in humans. Febbraio MA, et al. **Exp Physiol** 1996 Jul;81(4):685–93

Temperature change in the pulp chamber during application of heat to composite and amalgam cores and its returning time to oral heat. Anil N, et al. **Int Dent J** 1996 Aug; 46(4):362–6

Brown adipose tissue temperature in lean and obese rats during exercise. Ardévol A, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):733–7

Effect of drill speed on bone temperature. Abouzgia MB, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):394–9

Effects of dietary energy on scrotal surface temperature, seminal quality, and sperm production in young beef bulls. Coulter GH, et al. **J Anim Sci** 1997 Apr;75(4):1048–52

Body temperature and endocrine interactions before and after calving in beef cows. Lammoglia MA, et al. **J Anim Sci** 1997 Sep;75(9):2526–34

Radiotelemetry measurement of body temperatures of feedlot steers during summer. Lefcourt AM, et al. **J Anim Sci** 1996 Nov;74(11):2633–40

Relationship between scrotal infrared temperature patterns and natural-mating fertility in beef bulls. Lunstra DD, et al. **J Anim Sci** 1997 Mar;75(3):767–74

Feedlot cattle with calm temperaments have higher average daily gains than cattle with excitable temperaments. Voisinet BD, et al. **J Anim Sci** 1997 Apr;75(4):892–6

Acute mild hypothermia in awake unrestrained rats induces a mixed acid-base disorder. Alfaro V, et al. **J Appl Physiol** 1996 Jun;80(6):2143–50

Thermal balance in infants. Bolton DP, et al. **J Appl Physiol** 1996 Jun;80(6):2234–42

Endurance exercise with and without a thermal clamp: effects on leukocytes and leukocyte subsets. Cross MC, et al. **J Appl Physiol** 1996 Aug;81(2):822–9

Windchill and the risk of tissue freezing. Danielsson U. **J Appl Physiol** 1996 Dec;81(6):2666–73

Heat strain models applicable for protective clothing systems: comparison of core temperature response. Gonzalez RR, et al. **J Appl Physiol** 1997 Sep;83(3):1017–32

Eucapnic hypoxia lowers human cold thermoregulatory response thresholds and accelerates core cooling. Johnston CE, et al. **J Appl Physiol** 1996 Feb;80(2):422–9

Effect of luteal phase elevation in core temperature on forearm blood flow during exercise. Kolka MA, et al. **J Appl Physiol** 1997 Apr;82(4):1079–83

Hyperhydration: thermoregulatory effects during compensable exercise-heat stress. Latzka WA, et al. **J Appl Physiol** 1997 Sep;83(3):860–6

Effect of three different warm-up regimens on heat balance and oxygen consumption of thoroughbred horses. Lund RJ, et al. **J Appl Physiol** 1996 Jun;80(6):2190–7

Effect of hypoglycemia on thermoregulatory responses. Passias TC, et al. **J Appl Physiol** 1996 Mar;80(3):1021–32

Reexamination of tympanic membrane temperature as a core temperature. Sato KT, et al. **J Appl Physiol** 1996 Apr; 80(4):1233–9

Metabolic heat production during fatigue from voluntary repetitive isometric contractions in humans. Saugen E, et al. **J Appl Physiol** 1996 Sep;81(3):1323–30

Control of skin blood flow in the neutral zone of human body temperature regulation. Savage MV, et al. **J Appl Physiol** 1996 Apr;80(4):1249–57

Wet-cold exposure and hypothermia: thermal and metabolic responses to prolonged exercise in rain. Thompson RL, et al. **J Appl Physiol** 1996 Sep;81(3):1128–37

Exercise hyperpnea and hyperthermia in humans. White MD, et al. **J Appl Physiol** 1996 Sep;81(3):1249–54

Responses of sweating and body temperature to sinusoidal exercise in physically trained men. Yamazaki F, et al. **J Appl Physiol** 1996 Feb;80(2):491–5

The effect of hypothermia on gas exchange in anaesthetized rats in a confined atmosphere. Arieli R, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul-Dec;5(3-4):277–94

Phase-advanced daily rhythms of melatonin, body temperature, and locomotor activity in food-restricted rats fed during daytime. Challet E, et al. **J Biol Rhythms** 1997 Feb;12(1):65–79

Stress-induced changes in circadian rhythms of body temperature and activity in rats are not caused by pacemaker changes. Meerlo P, et al. **J Biol Rhythms** 1997 Feb;12(1):80–92

Temperature circadian rhythms during the menstrual cycle and sleep deprivation in premenstrual dysphoric disorder and normal comparison subjects. Parry BL, et al. **J Biol Rhythms** 1997 Feb;12(1):34–46

Continuous jugular venous versus nasopharyngeal temperature monitoring during hypothermic cardiopulmonary bypass for cardiac surgery. Grocott HP, et al. **J Clin Anesth** 1997 Jun;9(4):312–6

Comparison of esophageal, tympanic, and forehead skin temperatures in adult patients. Patel N, et al. **J Clin Anesth** 1996 Sep;8(6):462–8

Activity, blood temperature and brain temperature of free-ranging springbok. Mitchell D, et al. **J Comp Physiol [B]** 1997 Jul;167(5):335–43

Timing of torpor bouts during hibernation in European hamsters (Cricetus cricetus L.). Wassmer T, et al. **J Comp Physiol [B]** 1997 May;167(4):270–9

Basal metabolic temperature vs. laboratory assessment in "posttraumatic hypothyroidism" [letter; comment] Cassidy JD. **J Manipulative Physiol Ther** 1996 Jul-Aug;19(6):425–7 . Comment on: J Manipulative Physiol Ther 1996 Jan;19(1):6–12.

Basal metabolic temperature vs. laboratory assessment in "posttraumatic hypothyroidism" [see comments] Sehnert KW, et al. **J Manipulative Physiol Ther** 1996 Jan;19(1):6–12 . Comment in: J Manipulative Physiol Ther 1996 Jul-Aug;19(6):425–7.

Epicardial temperature is a major predictor of myocardial infarct size in dogs. Schwartz LM, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1577–83

Effects of body and hindlimb temperature on laser Doppler blood flow and vascular conductance in rat sciatic nerve and skeletal muscle. Dines KC, et al. **J Neurol Sci** 1997 May 1;148(1):7–13

An automated system for regulating brain temperature in awake and freely moving rodents. Colbourne F, et al. **J Neurosci Methods** 1996 Aug;67(2):185–90

In vivo activation of neural heat shock transcription factor HSF1 by a physiologically relevant increase in body temperature. Brown IR, et al. **J Neurosci Res** 1996 Apr 1;44(1):52–7

Effects of brain temperature on calmodulin and microtubule-associated protein 2 immunoreactivity in the gerbil hippocampus following transient forebrain ischemia. Eguchi Y, et al. **J Neurotrauma** 1997 Feb;14(2):109–18

Regulation of ram scrotal temperature during heat exposure, cold exposure, fever and exercise. Maloney SK, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):421–30

The effect of acetylcholine on finger capillary pressure and capillary flow in healthy volunteers. Morris SJ, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):307–13

Body temperature influences regional tissue blood flow during retrograde cerebral perfusion. Usui A, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):440–7

The effects of different light intensities during the daytime on the forearm blood flow and mean body temperature in the evening. Aizawa S, et al. **Jpn J Physiol** 1996 Dec; 46(6):481–4

Lipopolysaccharide-induced fever in rats prolonged by a needle prick. Sugimoto N, et al. **Jpn J Physiol** 1997 Apr; 47(2):199–204

Thermogenic responses to high-energy phosphate contents and/or hindlimb suspension in rats. Wakatsuki T, et al. **Jpn J Physiol** 1996 Apr;46(2):171–5

Temperature determination in the frozen region during cryosurgery of rabbit liver using MR image analysis. Gilbert JC, et al. **Magn Reson Imaging** 1997;15(6):657–67

Effect of body temperature on retinal damage by 488 nm light in rat. Gorgels TG, et al. **Microsc Res Tech** 1997 Jan 15;36(2):89–95

Binding site polarity and ligand affinity of homologous fatty acid-binding proteins from animals with different body temperatures. Londraville RL, et al. **Mol Cell Biochem** 1996 Jun 7;159(1):39–45

High body temperature induces micronuclei in mouse bone marrow. Asanami S, et al. **Mutat Res** 1997 Apr 24; 390(1–2):79–83

Changes in regional cortical temperature and cerebral blood flow after cortical spreading depression. Ueda M, et al. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):441–5; discussion 445–6

Brain temperature monitoring and modulation in patients with severe MCA infarction. Schwab S, et al. **Neurology** 1997 Mar;48(3):762–7

Main trends in rectal temperature during sleep. Hypnogram and thermogram. Almirall H, et al. **Neuropsychobiology** 1997;35(2):84–90

Relationship between neuronal activity and brain temperature in rats. Moser EI, et al. **Neuroreport** 1996 Jul 29; 7(11):1876–80

Brain cooling during transient focal ischemia provides complete neuroprotection. Barone FC, et al. **Neurosci Biobehav Rev** 1997 Jan;21(1):31–44 (148 ref.)

Daily hypocaloric feeding entrains circadian rhythms of wheel-running and body temperature in rats kept in constant darkness. Challet E, et al. **Neurosci Lett** 1996 Jun 14;211(1):1–4

Advances of human core temperature minimum and maximal paradoxical sleep propensity by ambient thermal transients. Dewasmes G, et al. **Neurosci Lett** 1996 Aug 30;215(1):25–8

Fast thermal waves spreading over the cerebral cortex. Shevelev IA, et al. **Neuroscience** 1997 Jan;76(2):531–40

Circadian rhythms of arterial pressure, heart rate and oral temperature in truck drivers. Stoynev AG, et al. **Occup Med (Oxf)** 1997 Apr;47(3):151–4

Elevation of core temperature and mental functioning. Travlos AK, et al. **Percept Mot Skills** 1996 Aug; 83(1):219–25

Vigilance state episodes and cortical temperature in the Djungarian hamster: the influence of photoperiod and ambient temperature. Deboer T, et al. **Pflugers Arch** 1997 Jan;433(3):230–7

Temperature dependency of turn/amplitude parameters. Finsterer J, et al. **Pflugers Arch** 1996 Apr;431(6):950–3

A description of discrete vessel segments in thermal modelling of tissues. Kotte A, et al. **Phys Med Biol** 1996 May;41(5):865–84

Temporal segregation in coexisting spiny mice (genus Acomys): role of photoperiod and heterospecific odor. Friedman D, et al. **Physiol Behav** 1997 Aug;62(2):407–11

Food intake and body weight in rats with daily food-availability restrictions. Křížova E, et al. **Physiol Behav** 1996 Sep;60(3):791–4

Circadian body temperature rhythms of the solitary cape mole rat Georychus capensis (Bathyergidae). Lovegrove BG, et al. **Physiol Behav** 1996 Sep;60(3):991–8

Rhythms of body temperature and temperature selection are out of phase in a diurnal rodent, Octodon degus. Refinetti R. **Physiol Behav** 1996 Sep;60(3):959–61

Effect of temperature on oxygen stores during aerobic diving in the freshwater turtle Mauremys caspica leprosa. Fuster JF, et al. **Physiol Zool** 1997 Jan-Feb;70(1):7–18

Body temperatures and activity patterns of Tasmanian devils (Sarcophilus harrisii) and eastern quolls (Dasyurus viverrinus) through a subalpine winter. Jones ME, et al. **Physiol Zool** 1997 Jan-Feb;70(1):53–60

Perinatal development of human circadian rhythms. Mirmiran M, et al. **Prog Brain Res** 1996;111:217–26 (43 ref.)

Effect of isolation on morphine-induced running and changes in body temperature. Coudereau JP, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jul; 20(5):827–38

Daily melatonin intake resets circadian rhythms of a sighted man with non-24-hour sleep-wake syndrome who lacks the nocturnal melatonin rise. Nakamura K, et al. **Psychiatry Clin Neurosci** 1997 Jun;51(3):121–7

Experimental study of temperature distributions and thermal transport during radiofrequency current therapy of the intervertebral disc. Houpt JC, et al. **Spine** 1996 Aug 1; 21(15):1808–12; discussion 1812–3

Influence of wet suit wear on anxiety responses to underwater exercise. Koltyn KF, et al. **Undersea Hyperb Med** 1997; 24(1):23–8

The effect of level of energy intake on rectal temperature and maintenance requirements of West African dwarf goats. Akinbamijo OO, et al. **Vet Q** 1996 Mar;18(1):26–8

Heat production, body temperature, and body posture in west African dwarf goats infected with Trypanosoma vivax. van Dam JT, et al. **Vet Q** 1996 Jun;18(2):55–9

[Reading children's temperatures with the tympanic infrared thermometer and the rectal mercury thermometer: equally good results in the emergency room] Draaisma JM, et al. **Ned Tijdschr Geneeskd** 1997 May 10;141(19):938–41 (Eng. Abstr.) **(Dut)**

[Clinical thermometry. II. Current dilemmas] MacKenzie MA, et al. **Ned Tijdschr Geneeskd** 1997 May 10; 141(19):957–9 (Eng. Abstr.) **(Dut)**

[Measurement of the body temperature of adults by rectal digital thermometer and the infrared tympanic thermometer: equally good results in the department of internal medicine] Postma CT, et al. **Ned Tijdschr Geneeskd** 1997 May 10;141(19):942–6 (Eng. Abstr.) **(Dut)**

[Variations of esophageal temperature during general anesthesia with a low-flow circuit] Di Filippo A, et al. **Minerva Anestesiol** 1995 Sep;61(9):351–7 (Eng. Abstr.) **(Ita)**

[Evolution of methodical approaches to solve problem of evaluating and predicting the thermal status of cosmonauts in the real flight] Kuznets EI, et al. **Aviakosm Ekolog Med** 1996;30(5):52–4 (7 ref.) (Eng. Abstr.) **(Rus)**

[Decrease in brain temperature during paradoxical sleep enables entry into torpor and hibernation] Pastukhov IuF, et al. **Dokl Akad Nauk** 1996 May;348(2):272–4 **(Rus)**

[The maximal duration of respiratory arrest during hypothermia in white rats which it is possible to reverse by an increase in brain temperature] Slepchuk NA. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov; 82(10–11):115–21 (Eng. Abstr.) **(Rus)**

[The distribution of cardiac output in waking rats with a decrease in body temperature to 2.3 degrees C through cooling or hypoxia] Turganbaeva AS, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):65–71 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Neuropeptides, radiation, and thermoregulation. Kandasamy SB. **Ann N Y Acad Sci** 1997 Mar 15;813:344–52

Effects of the morning irradiation of light with different wavelengths on the behavior of core temperature and melatonin in humans. Morita T, et al. **Appl Human Sci** 1997 May;16(3):103–5

Body heating induced by sub-resonant (350 MHz) microwave irradiation: cardiovascular and respiratory responses in anesthetized rats. Jauchem JR, et al. **Bioelectromagnetics** 1997;18(4):335–8

The effects of different light intensities during the daytime on the forearm blood flow and mean body temperature in the evening. Aizawa S, et al. **Jpn J Physiol** 1996 Dec; 46(6):481–4

Effects of low power laser-irradiation on differential blood count and body temperature in endotoxin-preimmunized rabbits. Schindl L, et al. **Life Sci** 1997;60(19):1669–77

Effect of ondansetron and ICS 205-930 on radiation-induced hypothermia in rats. Kandasamy SB. **Radiat Res** 1997 Jun; 147(6):741–6

BODY TEMPERATURE REGULATION

Thermoregulatory vasoconstriction and perianesthetic heat transfer. Kurz A, et al. **Acta Anaesthesiol Scand Suppl** 1996; 109:30–3

Perioperative thermoregulation in the elderly. Sladen RN. **Acta Anaesthesiol Scand Suppl** 1996;109:33–4

Fathers can effectively achieve heat conservation in healthy newborn infants. Christensson K. **Acta Paediatr** 1996 Nov; 85(11):1354–60

Thermal control of the newborn: knowledge and practice of health professional in seven countries. Dragovich D, et al. **Acta Paediatr** 1997 Jun;86(6):645–50

Leptin and thermogenesis in humans. Tuominen JA, et al. **Acta Physiol Scand** 1997 May;160(1):83–7

Increase in diet-induced thermogenesis at the start of refeeding in severely malnourished anorexia nervosa patients. Moukaddem M, et al. **Am J Clin Nutr** 1997 Jul; 66(1):133–40

Incidence of fever in the rehabilitation phase following brain injury. Clinchot DM, et al. **Am J Phys Med Rehabil** 1997 Jul–Aug;76(4):323–7

Enhanced thermogenesis during recovery from diet-induced weight gain in the rat. Almeida NG, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1380–7

Brown fat thermogenesis and cardiac rate regulation during cold challenge in infant rats. Blumberg MS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1308–13

Influence of route of delivery and ambient temperature on thermoregulation in newborn lambs. Clarke L, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1931–9

Role of the autonomic nervous system in the thermogenic response to food in lean individuals. De Jonge L, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E775–80

Molecular activity of sodium pumps in endotherms and ectotherms. Else PL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1287–94

The roles of cGMP and cAMP in active thermoregulatory vasodilation. Farrell DM, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 2):R975–81

Identification of brown fat and mechanisms for energy balance in the marsupial, Sminthopsis crassicaudata. Hope PJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R161–7

Effect of heat stress on LPS-induced fever and tumor necrosis factor. Kluger MJ, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 2):R858–63

Nitric oxide increases cutaneous and respiratory heat dissipation in conscious rabbits. Mathai ML, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1691–7

Thermoregulatory and heat-shock protein response deficits in cold-exposed diabetic mice. Matz JM, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R525–32

Raising at thermoneutrality prevents obesity and hyperphagia in BAT-ablated transgenic mice. Melnyk A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1088–93

Endotoxin shock: thermoregulatory mechanisms. Romanovsky AA, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R693–703

A hypercaloric load induces thermogenesis but inhibits stress responses in the SNS and HPA system. Strack AM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R840–8

Osmoregulatory inhibition of thermally induced cutaneous vasodilation in passively heated humans. Takamata A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R197–204

Individual differences in response to LPS and psychological stress in aged rats. Wachulec M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1252–7

Physiological responses to a cold, wet, and windy environment during prolonged intermittent walking. Weller AS, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R226–33

Role of the thermic effect of food in malnutrition of patients with chronic obstructive pulmonary disease. Doré MF, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1535–40

Thermoregulatory vasodilation increases the venous partial pressure of oxygen. Tayefeh F, et al. **Anesth Analg** 1997 Sep;85(3):657–62

Sensing cold and producing heat [editorial; comment] Lindahl SG. **Anesthesiology** 1997 Apr;86(4):758–9. Comment on: Anesthesiology 1997 Apr;86(4):772–7.

Early and longtime modifications of temperature regulation after severe head injury. Prognostic implications. Behr R, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:722–32

Determinants of hypothalamic neuronal thermosensitivity. Boulant JA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:133–8 (17 ref.)

Temperature regulation in the neutral zone. Brengelmann GL, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:39–50

Heat loss from the upper airways and selective brain cooling in humans. Cabanac M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:613–6

Regulation and modulation in biology. A reexamination of temperature regulation. Cabanac M. **Ann N Y Acad Sci** 1997 Mar 15;813:21–31 (43 ref.)

Thermoregulatory vasoconstriction does not impede core warming during cutaneous heating. Christensen R, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:827–34

Alpha-adrenergic mechanisms of thermoregulation in humans. Frank SM, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:101–10

Heat resistance and heredity of the FOK rat. Furuyama F, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:640–3

Exercise thermoregulation with bed rest, confinement, and immersion deconditioning. Greenleaf JE. **Ann N Y Acad Sci** 1997 Mar 15;813:741–50

Thermal role of a blood vessel running through a temperature gradient. Hokkanen JE. **Ann N Y Acad Sci** 1997 Mar 15; 813:56–62

Effects of estrogen on thermoregulatory responses in freely moving female rats. Hosono T, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:207–10

Physiological problems and functional mechanisms of the thermoregulation system. Ivanov KP. **Ann N Y Acad Sci** 1997 Mar 15;813:32–8

Human humoral thermogenesis. Janský L, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:689–96

Resetting the thermoregulatory set-point by endogenous estradiol or progesterone in women. Kolka MA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:204–6

Interleukin-1 and defensins in thermoregulation, stress, and immunity. Korneva EA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:465–73

Two periods in the response of the skin cold receptors to intravenous infusion of noradrenaline. Kozyreva TV. **Ann N Y Acad Sci** 1997 Mar 15;813:176–83

Thermoregulation and sleep. Closely linked but separable. Krueger JM, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:281–6

Lateral distribution of brain signals controlling selective brain cooling and vasomotoric activity. Kuhnen G. **Ann N Y Acad Sci** 1997 Mar 15;813:123–6

Lack of septal serotonergic involvement in thermal challenges in the rat. Lee TF, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:187–91

(Is there) a pharmacology of thermoregulation? Lomax P, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:5–11

Cardiovascular responses to heat and exercise in the horse. McConaghy FF, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:600–3

Pathophysiology and clinical implications of human poikilothermia. MacKenzie MA. **Ann N Y Acad Sci** 1997 Mar 15;813:738–40

Temperature treck. The next generation in data analysis. Malkinson TJ, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:230–2

Salivary glands, their hormones, and thermoregulation. Mathison RD, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:338–43

Telemetry augments the validity of the rat as a model for heat acclimation. Matthew CB. **Ann N Y Acad Sci** 1997 Mar 15;813:233–8

The interaction between thyroid and brown-fat thermogenesis. Central or peripheral effects? Nedergaard J, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:712–7

Ontogeny of thermoregulation during the prenatal period in birds. Nichelmann M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:78–86

Adrenergic signal transduction in the brainstem of euthermic and hibernating European hamsters. Nürnberger F, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:705–11

REM sleep as a criterion of temperature comfort and temperature homeostasis "well-being" in euthermic and hibernating mammals. Pastukhov YF. **Ann N Y Acad Sci** 1997 Mar 15;813:71–2

Properties of spinal neuronal thermosensitivity in vivo and in vitro. Pehl U, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:139–45

Specific action of GABAB ligands on the temperature sensitivity of hypothalamic neurons. Pierau FK, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:146–55

Homeostasis and circadian rhythmicity in the control of body temperature. Refinetti R. **Ann N Y Acad Sci** 1997 Mar 15; 813:63–70

Endotoxin shock-associated hypothermia. How and why does it occur? Romanovsky AA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:733–7

Endogenous NO-synthase is effective as a modulator of spinal thermosensitive neurons. Schmid HA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:166–75

Perioperative thermoregulation and heat balance. Sessler DI. **Ann N Y Acad Sci** 1997 Mar 15;813:757–77 (56 ref.)

The lower midbrain tonically inhibits metabolic heat production in anesthetized rats. Shibata M. **Ann N Y Acad Sci** 1997 Mar 15;813:127–32

Preferred ambient temperature and threshold temperatures for thermoregulation in the FOK rat. Shido O, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:652–3

Open field-induced rise in body temperature and plasma IL-6 is mediated by beta-adrenoceptors in the brain. Soszynski D, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:413–9

Heat loss responses to acute heat loads in the FOK rat. Sugimoto N, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:644–5

Thermophysiology in cyberspace. Time- and location-independent interative research information URL http://physiol.utmem.edu/thermophysiology/. Tague LL, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:216–24

Age-related changes in thermoregulation of mice. Talan M. **Ann N Y Acad Sci** 1997 Mar 15;813:95–100

Heat production of brown adipocytes in FOK rats. Tanaka E, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:649–51

Can an unexpected depressed thermogenic response to body cooling during fever be explained by thermosensitivity changes? Tøien O, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:491–6

Influence of prenatal and postnatal acclimation on nervous and peripheral thermoregulation. Tzschentke B, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:87–94

Continuous measurement of heat loss and heat production and the hypothesis of heat regulation. Webb P. **Ann N Y Acad Sci** 1997 Mar 15;813:12–20

Enhanced nonshivering thermogenic activity of the heat-tolerant FOK rat. Yahata T, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:646–8

Efferent neuronal organization of thermoregulatory vasomotor control. Zhang YH, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:117–22

Thermal comfort properties of cotton and nonwoven surgical gowns with dual functional finish. Cho JS, et al. **Appl Human Sci** 1997 May;16(3):87–95

A dynamic model of the human/clothing/environment-system. Xu X, et al. **Appl Human Sci** 1997 Mar;16(2):61–75

Temperature control in very low birthweight infants during first five days of life. Lyon AJ, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jan;76(1):F47–50

The role of sweat in maintaining the stimulation of effort homeostasis in horses. Hejlasz Z, et al. **Arch Vet Pol** 1994; 34(3–4):231–9

Clothing insulation in a hypobaric environment. Chang SK, et al. **Aviat Space Environ Med** 1996 Sep;67(9):827–34

A miniswine model of acute exertional heat exhaustion. Gentile BJ, et al. **Aviat Space Environ Med** 1996 Jun; 67(6):560–7

A molecular switch in cytochrome C oxidase turns on thermogenesis in heart at low work load. Belyanovich L, et al. **Biochem Biophys Res Commun** 1996 Dec 13; 229(2):485–7

Disturbed circadian core body temperature rhythm and sleep disturbance in school refusal children and adolescents. Tomoda A, et al. **Biol Psychiatry** 1997 Apr 1;41(7):810–3

Use of a pneumatic tourniquet induces changes in central

temperature. Estebe JP, et al. **Br J Anaesth** 1996 Dec; 77(6):786–8

Effect of prewarming in the cold season on thermoregulatory responses during exercise. Torii M, et al. **Br J Sports Med** 1996 Jun;30(2):102–11

Acclimation effects on fed and fasted broiler thermobalance during thermoneutral and high ambient temperature exposure. Wiernusz CJ, et al. **Br Poult Sci** 1996 Jul; 37(3):677–87

Effects of environmental temperature and heat production due to food intake on abdominal temperature, shank skin temperature and respiration rate of broilers. Zhou WT, et al. **Br Poult Sci** 1997 Mar;38(1):107–14

Effects of early heat exposure on thermoregulatory responses and blood viscosity of broilers prior to marketing. Zhou WT, et al. **Br Poult Sci** 1997 Jul;38(3):301–6

Effect of crying on infrared tympanic temperature measurement in pediatrics. Kahyaoglu O, et al. **Clin Pediatr (Phila)** 1997 Aug;36(8):487–8

Instrumental learning for a thermal reinforcer in 1–day–old rats. Flory GS, et al. **Dev Psychobiol** 1997 Jan;30(1):41–7

Nursing behavior in rats is impaired in a small nestbox and with hyperthermic pups. Stern JM, et al. **Dev Psychobiol** 1996 Mar;29(2):101–22

Reduced heat loss following sucrose ingestion in premature and normal human newborns. Rao M, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):109–16

Prone sleeping infants have a reduced ability to lose heat. Tuffnell CS, et al. **Early Hum Dev** 1995 Oct 2;43(2):109–16

Thermoregulatory responses during competitive exercise in the performance horse. **Equine Vet J Suppl** 1995 Nov; (20):1–164

Thermal and cardiorespiratory responses of horses to submaximal exercise under hot and humid conditions. Geor RJ, et al. **Equine Vet J Suppl** 1995 Nov;(20):125–32

Estimation of metabolic energy cost and heat production during a 3–day–event. Jones JH, et al. **Equine Vet J Suppl** 1995 Nov;(20):23–30

Dietary fat affects heat production and other variables of equine performance, under hot and humid conditions. Kronfeld DS. **Equine Vet J Suppl** 1996 Jul;(22):24–34 (40 ref.)

Preparing for and competing in the heat: the human perspective. Maughan RJ, et al. **Equine Vet J Suppl** 1995 Nov;(20):8–15 (86 ref.)

Integrative model for predicting thermal balance in exercising horses. Mostert HJ, et al. **Equine Vet J Suppl** 1996 Jul; (22):7–15

Gait, estimated net cost of transport and heat production at different speeds in three–day–event horses. Schroter RC, et al. **Equine Vet J Suppl** 1996 Jul;(22):16–23

An index of the environmental thermal load imposed on exercising horses and riders by hot weather conditions. Schroter RC, et al. **Equine Vet J Suppl** 1995 Nov;(20):16–22 (8 ref.)

Thermoregulatory and metabolic responses following cardiac surgery. Licker M, et al. **Eur J Anaesthesiol** 1996 Sep; 13(5):502–10

Passive temperature lability in the elderly. Anderson GS, et al. **Eur J Appl Physiol** 1996;73(3–4):278–86

Thermoregulatory responses of circum–pubertal children. Anderson GS, et al. **Eur J Appl Physiol** 1996;74(5):404–10

Residual analysis in the determination of factors affecting the estimates of body heat storage in clothed subjects. Aoyagi Y, et al. **Eur J Appl Physiol** 1996;73(3–4):287–98

Thermoregulation during exercise in women who are taking oral contraceptives. Rogers SM, et al. **Eur J Appl Physiol** 1997;75(1):34–8

Thermoregulatory responses of prepubertal boys and young men during moderate exercise. Shibasaki M, et al. **Eur J Appl Physiol** 1997;75(3):212–8

The effect of water leakage on the results obtained from human and thermal manikin tests of immersion protective clothing. Tipton MJ, et al. **Eur J Appl Physiol** 1996; 72(5–6):394–400

Thermal regulatory dysfunction of growth hormone in classical heat stroke. Alzeer A, et al. **Eur J Endocrinol** 1996 Jun;134(6):727–30

The role of histamine H1 receptors in the thermoregulatory effect of morphine in mice. Ulugöl A, et al. **Eur J Pharmacol** 1996 Jul 11;308(1):49–52

Effect of irrigating fluid on perioperative temperature regulation during transurethral prostatectomy. Monga M, et al. **Eur Urol** 1996;29(1):26–8

Human heat tolerance in simulated environment. Nag PK, et al. **Indian J Med Res** 1997 May;105:226–34

Effect of bathing on temperature of normal neonates [letter] Raman V, et al. **Indian Pediatr** 1996 Feb;33(2):143

Effect of bathing on temperature of normal neonates [letter] Raman V, et al. **Indian Pediatr** 1996 Apr;33(4):340

Thermoregulation and the pathogenesis of fever. Dinarello CA. **Infect Dis Clin North Am** 1996 Jun;10(2):433–49 (50 ref.)

Microcalorimetric and biochemical investigations of thermogenesis and metabolic pathways in human white adipocytes. Böttcher H, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):874–81

Decreased white fat cell thermogenesis in obese individuals. Böttcher H, et al. **Int J Obes Relat Metab Disord** 1997 Jun;21(6):439–44

Effects of hyperhydration on total body water, temperature regulation and performance of elite young soccer players in a warm climate. Rico–Sanz J, et al. **Int J Sports Med** 1996 Feb;17(2):85–91

Dependence of ultrasonic attenuation and absorption in dog soft tissues on temperature and thermal dose. Damianou CA, et al. **J Acoust Soc Am** 1997 Jul;102(1):628–34

Catecholaminergic innervation of interscapular brown adipose tissue in the naked mole–rat (Heterocephalus glaber). Daly TJ, et al. **J Anat** 1997 Apr;190 (Pt 3):321–6

On the Nusselt number in heat transfer between multiple parallel blood vessels. Cousins AK. **J Biomech Eng** 1997 Feb;119(1):127–9

Sensitivity analysis of one–dimensional heat transfer in tissue with temperature–dependent perfusion. Davies CR, et al. **J Biomech Eng** 1997 Feb;119(1):77–80

Effects of Ca2+ on oxidative phosphorylation in mitochondria from the thermogenic organ of marlin. O'Brien J, et al. **J Exp Biol** 1996 Dec;199 (12):2679–87

A newborn's first bath: when? Penny–MacGillivray T. **J Obstet Gynecol Neonatal Nurs** 1996 Jul–Aug;25(6):481–7

Effect of midbrain stimulations on thermoregulatory vasomotor responses in rats. Zhang YH, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):177–86

Communications to the International Conference on Dehydration, Rehydration and Exercise in the Heat. Nottingham, United Kingdom, 1–5 November 1995. **J Sports Sci** 1996 Aug;14(4):347–70

Cold exposure and winter mortality in Europe [letter; comment] MacKenzie MA. **Lancet** 1997 Aug 23; 350(9077):590–1; discussion 591–2. Comment on: Lancet 1997 May 10;349(9062):1341–6.

Can risk factors for over–heating explain epidemiological features of sudden infant death syndrome? Wells JC. **Med Hypotheses** 1997 Feb;48(2):103–6 (42 ref.)

Cardiovascular and thermal responses to SCUBA diving. Doubt TJ. **Med Sci Sports Exerc** 1996 May;28(5):581–6

Thermoregulatory responses to cycling with and without a helmet. Sheffield–Moore M, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):755–61

Mkh1, a MEK kinase required for cell wall integrity and proper response to osmotic and temperature stress in Schizosaccharomyces pombe. Sengar AS, et al. **Mol Cell Biol** 1997 Jul;17(7):3508–19

Mild perioperative hypothermia. Sessler DI. **N Engl J Med** 1997 Jun 12;336(24):1730–7 (60 ref.)

Hereditary thermosensitive neuropathy: an autosomal dominant disorder of the peripheral nervous system. Magy L, et al. **Neurology** 1997 Jun;48(6):1684–90

Modulation of thermogenic response to parenteral amino acid infusion in surgical stress. Tsujinaka T, et al. **Nutrition** 1996 Jan;12(1):36–9

Effects of ambient temperature on thermoregulation during fever in cats. Amini–Sereshki–Kormi L. **Pathobiology** 1996; 64(5):284–8

Dynamics of brown fat thermogenesis in week–old rats: evidence of relative stability during moderate cold exposure. Blumberg MS, et al. **Physiol Zool** 1997 May–Jun; 70(3):324–30

The thermal biology of digestion in rubber boas (Charina bottae): physiology, behavior, and environmental constraints. Dorcas ME, et al. **Physiol Zool** 1997 May–Jun; 70(3):292–300

Effects of thyroid status on cold–adaptive thermogenesis in Brandt's vole, Microtus brandti. Liu XT, et al. **Physiol Zool** 1997 May–Jun;70(3):352–61

Thermic effect of food and sympathetic nervous system activity in humans. Tappy L. **Reprod Nutr Dev** 1996; 36(4):391–7 (39 ref.)

Role of fragment peptides from ob protein on body weight and thermogenesis control: a screening. Martínez JA, et al. **Rev Esp Fisiol** 1996 Jun;52(2):123–4

Thermography of hands after a radial forearm flap has been raised. Suominen S, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Dec; 30(4):307–14

Thermal stress, sleeping position, and the sudden infant death syndrome. Sawczenko A, et al. **Sleep** 1996 Dec;19(10 Suppl):S267–70 (36 ref.)

[Thermoregulatory research in the field of anesthesia and intensive care: a review] Ozaki M. **Masui** 1996 Jul; 45(7):804–12 (45 ref.) (Eng. Abstr.) **(Jpn)**

[Characteristics of some Arctic cities according to data of physiologic and hygienic evaluation of the influence of weather and climate on human thermoregulation] Kaptsov VA, et al. **Med Tr Prom Ekol** 1996;(5):14–6 (Eng. Abstr.) **(Rus)**

[Physiologic and hygienic substantiation of requirements of individual protective means against cold of workers exposed to local and general vibration] Suvorov GA, et al. **Med Tr Prom Ekol** 1996;(5):19–23 (Eng. Abstr.) **(Rus)**

[Warm air convection system and heat loss during vascular surgery] Muñiz G, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):197–200 (Eng. Abstr.) **(Spa)**

[Disturbed thermostat causes problems during climacteric] Hammar M, et al. **Lakartidningen** 1997 Jun 11; 94(24):2293–6, 2299 **(Swe)**

DRUG EFFECTS

Role of taurine in thermoregulation and motor control. Behavioural and cellular studies. Sgaragli G, et al. **Adv Exp Med Biol** 1996;403:527–35

Long–term ethanol and nicotine treatment elicit tolerance to ethanol. Collins AC, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):990–9

Correlated responses to selection in FAST and SLOW mice: effects of ethanol on ataxia, temperature, sedation, and withdrawal. Shen EH, et al. **Alcohol Clin Exp Res** 1996 Jun;20(4):688–96

Metabolic response to lactitol and xylitol in healthy men. Natah SS, et al. **Am J Clin Nutr** 1997 Apr;65(4):947–50

Effects of 2–deoxy–D–glucose and insulin on plasma glucose levels and behavioral thermoregulation of toads. Branco LG. **Am J Physiol** 1997 Jan;272(1 Pt 2):R1–5

Thermoregulatory effects of cyanide and azide in the toad, Bufo marinus. Branco LG, et al. **Am J Physiol** 1996 Jan; 270(1 Pt 2):R169–73

Ethanol disrupts and decreases the regulated body temperature differentially in C57BL/6J and DBA/2J mice. Crawshaw LI, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R696–702

Early evening melatonin and S–20098 advance circadian phase and nocturnal regulation of core body temperature. Kräuchi K, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1178–88

Clonidine increases the sweating threshold, but does not reduce the gain of sweating. Delaunay L, et al. **Anesth Analg** 1996 Oct;83(4):844–8

Postanesthetic vasoconstriction slows peripheral–to–core transfer of cutaneous heat, thereby isolating the core thermal compartment. Plattner O, et al. **Anesth Analg** 1997 Oct;85(4):899–906

Dobutamine infusion modifies thermoregulation during general anesthesia. Shitara T, et al. **Anesth Analg** 1996 Dec; 83(6):1154–9

Lack of nonshivering thermogenesis in infants anesthetized with fentanyl and propofol [see comments] Plattner O, et al. **Anesthesiology** 1997 Apr;86(4):772–7. Comment in: Anesthesiology 1997 Apr;86(4):758–9.

Possible involvement of the serotonergic system in intraseptal opioid–induced hypothermia in ground squirrels. Cui Y, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:192–6

Ketanserin effects on thermoregulation in malarial and normal rats. Dascombe MJ, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:392–7

Heat intolerance induced by antidepressants. Epstein Y, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:553–8

Effects of chronic treatment with angiotensin II on thermoregulation in rats. Fregly MJ, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:211–5

Thermoregulatory response to chemical toxicants and other insults. Extrapolation from experimental animal to human. Gordon CJ, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:835–48 (54 ref.)

Physiological responses to cold in relation to the phase of the menstrual cycle and oral contraceptives. Grucza R, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:697–701

Daily changes in sympathetic activity. The thermoregulatory effects of the beta blocker propranolol. Haim A, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:73–7

The effect of opioids on thermoregulatory responses in humans and the special antishivering action of meperidine. Ikeda T, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:792–8

Isoflurane produces marked and nonlinear decreases in the vasoconstriction and shivering thresholds. Kurz A, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:778–85

Thermoregulatory effects of 5'–N–ethylcarboxamidoadenosine in rabbits. Matuszek MT, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:360–8

Macrophage inflammatory protein–1 beta and inducible nitric oxide synthase immunoreactivity in rat brain during prostaglandin E2– or lipopolysaccharide–induced fever. Miñano FJ, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:272–80

The interaction between the central and peripheral nervous systems in mediating the thermic effect of methamphetamine. Mohaghegh RA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:197–203

Analysis of the cellular mechanism for halothane inhibition of brown adipose tissue thermogenesis. Ohlson KB, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:718–21

The threshold for thermoregulatory vasoconstriction during nitrous oxide/sevoflurane anesthesia is lower in elderly than in young patients. Ozaki M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:789–91

Febrile irresponsiveness of vagotomized rats to a pyrogenic signal. Non–sensing brain or non–heating body? Romanovsky AA, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:437–44

Naltrexone modifies thermoregulatory symptoms and lessens the severity of heat stroke in guinea pigs. Romanovsky AA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:548–52

A comparison of the body temperature during sevoflurane anesthesia and isoflurane anesthesia. Saito T. **Ann N Y Acad Sci** 1997 Mar 15;813:786–8

Do cardiovascular mechanisms participate in thermoregulatory activity of alpha 2–adrenoceptor agonists and antagonists in rabbits? Szreder Z. **Ann N Y Acad Sci** 1997 Mar 15;813:512–25

The effect of selective and nonselective opioids on body temperature in cold–acclimated rats. Weinberg R, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:702–4

I.m. midazolam as premedication produces a concentration–dependent decrease in core temperature in male volunteers. Matsukawa T, et al. **Br J Anaesth** 1997

Apr;78(4):396–9
Body temperature control and anaesthesia. Desborough JP. **Br J Hosp Med** 1997 May 7–20;57(9):440–2 (14 ref.)
Altered thermoregulatory responses to clonidine in streptozotocin–diabetic rats. O'Donnell JM, et al. **Br J Pharmacol** 1996 Mar;117(5):938–42
Interaction of cholecystokinin and somatostatin with a selective mu–opioid agonist and mu– and kappa–antagonists in thermoregulation. Ghosh S, et al. **Brain Res** 1997 Jan 16;745(1–2):152–7
Effect of gonadotropin releasing hormone on thermoregulatory vasomotor activity in ovariectomized female rats. Hosono T, et al. **Brain Res** 1997 Apr 18; 754(1–2):88–94
Effects of centrally administered prostaglandin EP receptor agonists on febrile and adrenocortical responses in the prepubertal pig. Parrott RF, et al. **Brain Res Bull** 1996; 41(2):97–103
Regulation of body temperature after acute organophosphate poisoning [letter] Hantson P, et al. **Can J Anaesth** 1996 Jul;43(7):755
Subcutaneous botulinum toxin type A inhibits regional sweating: an individual observation. Cheshire WP. **Clin Auton Res** 1996 Apr;6(2):123–4
Anti–obesity and anti–diabetic effects of mazindol in yellow KK mice: its activating effect on brown adipose tissue thermogenesis. Yoshida T, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):476–82
Augmented thermic effect of amino acids under general anaesthesia occurs predominantly in extra–splanchnic tissues. Selldén E, et al. **Clin Sci (Colch)** 1996 Oct; 91(4):431–9
Role of dietary fatty acids on energetics and torpor in the Chilean mouse–opossum Thylamys elegans. Bozinovic F, et al. **Comp Biochem Physiol A Physiol** 1997 Feb; 116(2):101–4
Nonshivering thermogenesis in marsupials: absence of thermogenic response to beta 3–adrenergic agonists. Nicol SC, et al. **Comp Biochem Physiol A Physiol** 1997 Jul; 117(3):399–405
Iron and thermoregulation: a review. Brigham D, et al. **Crit Rev Food Sci Nutr** 1996 Dec;36(8):747–63 (91 ref.)
The glucose–induced thermogenesis in different tissues in man. Simonsen L. **Dan Med Bull** 1997 Feb;44(1):56–69 (191 ref.)
Cloning and characterization of an uncoupling protein homolog: a potential molecular mediator of human thermogenesis. Gimeno RE, et al. **Diabetes** 1997 May; 46(5):900–6
Alcohol and its variable effect on human thermoregulatory response to exercise in a warm environment. Desruelle AV, et al. **Eur J Appl Physiol** 1996;74(6):572–4
Alcohol lowers the vasoconstriction threshold in humans without affecting core cooling rate during mild cold exposure. Johnston CE, et al. **Eur J Appl Physiol** 1996; 74(3):293–5
Effects of galanin on 8–OH–DPAT induced decrease in body temperature and brain 5–hydroxytryptamine metabolism in the mouse. Patel S, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2–3):197–204
Effect of rearing temperature on perirenal adipose tissue development and thermoregulation following methimazole treatment of postnatal lambs. Symonds ME, et al. **Exp Physiol** 1996 Nov;81(6):995–1006
The effect of N6–cyclohexyladenosine and 5'–N–ethylcarboxamidoadenosine on body temperature in normothermic rabbits. Matuszek M, et al. **Gen Pharmacol** 1996 Apr;27(3):467–9
Intracerebroventricular injection of leptin increases thermogenesis and mobilizes fat metabolism in ob/ob mice. Hwa JJ, et al. **Horm Metab Res** 1996 Dec;28(12):659–63
Enhanced thermogenesis in rats by Panax ginseng, multivitamins and minerals. Kumar R, et al. **Int J Biometeorol** 1996 Nov;39(4):187–91
The effects of theophylline on metabolic rate in chronic obstructive lung disease patients. Mosier K, et al. **J Am Coll Nutr** 1996 Aug;15(4):403–7
Effect of ergotamine and ergonovine on thermal regulation and cardiovascular function in cattle. Browning R Jr, et al. **J Anim Sci** 1997 Jan;75(1):176–81
Genotypic effects on norepinephrine–induced changes in thermogenesis, metabolic hormones, and metabolites in newborn calves. Carstens GE, et al. **J Anim Sci** 1997 Jul; 75(7):1746–55
Ozone toxicity in the rat. II. Modeling changes due to ambient temperatures and duration. Highfill JW, et al. **J Appl Physiol** 1996 May;80(5):1811–8
Heat stroke: opioid–mediated mechanisms. Romanovsky AA, et al. **J Appl Physiol** 1996 Dec;81(6):2565–70
Supplementation of nicotinic acid for lactating Holstein cows under heat stress conditions. Di Costanzo A, et al. **J Dairy Sci** 1997 Jun;80(6):1200–6
A comparison of febrile responses induced by LPS from E. coli and S. abortus in unrestrained rats placed in a thermal gradient. Bodurka M, et al. **J Physiol Pharmacol** 1997 Mar; 48(1):81–8
The hypothermic effect of melatonin on core body temperature: is more better? Dawson D, et al. **J Pineal Res** 1996 May;20(4):192–7
Facilitatory and inhibitory effects of harmaline on the tryptophan–induced 5–hydroxytryptamine syndrome and body temperature changes in pargyline–pretreated rats. Abdel–Fattah AF, et al. **Jpn J Pharmacol** 1996 Sep; 72(1):39–47
Day–night variations of behavioral and autonomic thermoregulatory responses to lipopolysaccharide in rats. Sugimoto N, et al. **Jpn J Physiol** 1996 Dec;46(6):451–6
Postprandial thermogenesis and substrate utilization after ingestion of different dietary carbohydrates. Blaak EE, et al. **Metabolism** 1996 Oct;45(10):1235–42
Neuropeptide Y perfused in the preoptic area of rats shifts extracellular efflux of dopamine, norepinephrine, and serotonin during hypothermia and feeding. Myers RD, et al. **Neurochem Res** 1996 Jun;21(6):637–48
Modulation of honey bee thermoregulation by adrenergic compounds. Belzunces LP, et al. **Neuroreport** 1996 Jul 8; 7(10):1601–4
Neuronal basis for the hyperthermic effect of mu–opioid agonists in rats: decrease in temperature sensitivity of warm–sensitive hypothalamic neurons. Yakimova KS, et al. **Neurosci Lett** 1996 Nov 1;218(2):115–8
Opposite effects of increased intracellular cyclic AMP on the heat and bradykinin responses of canine visceral polymodal receptors in vitro. Mizumura K, et al. **Neurosci Res** 1996 Aug;25(4):335–41
Effect of beta 3–adrenergic agonist (Zeneca D7114) on thermoregulation in near–term lambs delivered by cesarean section. Clarke L, et al. **Pediatr Res** 1996 Aug;40(2):330–6
Cyclo (His–Pro) modulation of body temperature at hot ambient temperature in the desert rat (Mastomys natalensis). Shukla R, et al. **Peptides** 1997;18(5):689–93
Aspartame's effects on behavioral thermoregulation in albino rats. Vitulli WF, et al. **Percept Mot Skills** 1996 Aug; 83(1):15–20
Cholera toxin effects on body temperature changes induced by morphine. Basilico L, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):499–505
Ethanol anapyrexia in rats. Briese E, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):399–402
Effects of alpha 1–adrenoceptor and Ca2+ channel inhibition on norepinephrine–induced thermoregulatory behavior in the cold. Carlisle HJ, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):185–9
Temperature–dependent effects of ephedrine in the cold. Carlisle HJ, et al. **Physiol Behav** 1996 Oct;60(4):1147–50
Acute thermogenic effects of nicotine and alcohol in healthy male and female smokers. Perkins KA, et al. **Physiol Behav** 1996 Jul;60(1):305–9
Comparison of changes in blood pressure and dipsogenic responsiveness to angiotensin II in male and female rats chronically exposed to cold. Sun Z, et al. **Physiol Behav** 1996 Dec;60(6):1543–9
Effects of hCRH on sleep and body temperature rhythms. Tsuchiyama Y, et al. **Psychiatry Clin Neurosci** 1995 Dec; 49(5–6):299–304
[Telethermographic studies on the effect of immunoglobulins (Beriglobin) on heat radiation behavior in radiodermatitis] Proske H, et al. **Strahlenther Onkol** 1997 May;173(5):261–6 (Eng. Abstr.) **(Ger)**
[Intraoperative hypothermia: pathophysiology and clinical sequelae (see comments)] Kurz A. **Wien Klin Wochenschr** 1997 Apr 25;109(8):261–9 (36 ref.) (Eng. Abstr.). Comment in: Wien Klin Wochenschr 1997 Apr 25;109(8):250–60. **(Ger)**
["Brother of sleep". The operating room and temperature (editorial; comment)] Lackner FX. **Wien Klin Wochenschr** 1997 Apr 25;109(8):259–60. Comment on: Wien Klin Wochenschr 1997 Apr 25;109(8):261–9. **(Ger)**
[Sevoflurane comparably decreases the threshold for thermoregulatory vasoconstriction as isoflurane] Atarashi K, et al. **Masui** 1996 Jul;45(7):818–23 (Eng. Abstr.) **(Jpn)**
[Experimental bases of the use of pharmacologic agents aimed at higher heat resistance of humans as means of individual protection] Makarov VI, et al. **Med Tr Prom Ekol** 1997; (5):35–8 (Eng. Abstr.) **(Rus)**
[Effect of calcium channel blockers on temperature in mice] Kozlovskii VL, et al. **Patol Fiziol Eksp Ter** 1997 Jan–Mar; (1):26–8 (Eng. Abstr.) **(Rus)**

GENETICS

Nesting and fitness: lifetime reproductive success in house mice bidirectionally selected for thermoregulatory nest–building behavior. Bult A, et al. **Behav Genet** 1997 May;27(3):231–40

IMMUNOLOGY

The vagus nerve in the thermoregulatory response to systemic inflammation. Romanovsky AA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R407–13

PHYSIOLOGY

Thermoregulation and hyperthermia. Lenhardt R, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:34–8
Comparison of thermoregulatory characteristics of patients with intra– and suprasellar pituitary adenomas. Behr R, et al. **Acta Neurochir Suppl (Wien)** 1996;65:44–9
Reactivity of skin blood flow and heart rate to thermal stimulation in infants during the first postnatal days and after a two–month follow–up. Jahnukainen T, et al. **Acta Paediatr** 1996 Jun;85(6):733–8
Regional skin temperature, heat flow and conductance in preterm neonates nursed in low and in neutral environmental temperature. Karlsson H, et al. **Acta Paediatr** 1996 Jan;85(1):81–7
Thermal balance in term and preterm newborn infants nursed in an incubator equipped with a radiant heat source. Sjörs G, et al. **Acta Paediatr** 1997 Apr;86(4):403–9
Rise of tissue temperature induced by reduced blood perfusion caused by external pressure. Yamada Y, et al. **Adv Exp Med Biol** 1996;388:391–7
Attenuation of lipopolysaccharide fever in rats by protein kinase C inhibitors. Kozak W, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R873–9
Interactions between postprandial thermogenesis, sensory stimulation of feeding, and hunger. LeBlanc J, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R936–40
Relationship between cold–induced thermoregulation and spontaneous rapid body weight loss of aging F344 rats. McDonald RB, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1115–22
Cold defense mechanisms in vagotomized rats. Romanovsky AA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R784–9
Inhibition of tumor necrosis factor prevents warming–induced sleep responses in rabbits. Takahashi S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1325–9
Alpha–adrenergic stimulation of thermogenesis in a rat kangaroo (Marsupialia, Bettongia gaimardi). Ye JM, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R586–92
Brain cooling in humans—anatomical considerations. Zenker W, et al. **Anat Embryol (Berl)** 1996 Jan;193(1):1–13 (57 ref.)
Skeletal muscle is responsible for heat production in porcine malignant hyperthermia [letter; comment] Karan SM, et al. **Anesth Analg** 1996 Nov;83(5):1133–4. Comment on: Anesth Analg 1996 Apr;82(4):782–9.
The threshold for thermoregulatory vasoconstriction during nitrous oxide/sevoflurane anesthesia is reduced in the elderly. Ozaki M, et al. **Anesth Analg** 1997 May; 84(5):1029–33
Influence of thermoregulatory vasomotion and ambient temperature variation on the accuracy of core–temperature estimates by cutaneous liquid–crystal thermometers. Ikeda T, et al. **Anesthesiology** 1997 Mar;86(3):603–12
Contribution of the scrotum, testes, and testicular artery to scrotal/testicular thermoregulation in bulls at two ambient temperatures. Kastelic JP, et al. **Anim Reprod Sci** 1997 Jan; 45(4):255–61
Simulation of human thermoregulation during water immersion: application to an aircraft cabin water–spray system. Wolf MB, et al. **Ann Biomed Eng** 1997 Jul–Aug; 25(4):620–34
Cold–induced salt intake in mice and catecholamine, renin and thermogenesis mechanisms. Dejima Y, et al. **Appetite** 1996 Jun;26(3):203–19
Effects of two kinds of pillow on thermoregulatory responses during night sleep. Kawabata A, et al. **Appl Human Sci** 1996 Jul;15(4):155–9
Physiological responses of men and women during exercise in hot environments with equivalent WBGT. Keatisuwan W, et al. **Appl Human Sci** 1996 Nov;15(6):249–58
Skin to skin care:heat balance. Karlsson H. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F130–2
Hypothalamic homeothermy across the ultradian sleep cycle. Parmeggiani PL. **Arch Ital Biol** 1995 Dec;134(1):101–7 (25 ref.)
Metabolic changes during cold water immersion. Hesselberg O, et al. **Arctic Med Res** 1995;54 Suppl 2:65–9
Heat production during cold water immersion: the role of shivering and exercise in the development of hypothermia. Waag T, et al. **Arctic Med Res** 1995;54 Suppl 2:60–4
Thermoregulation in homeotherms: central temperature results from optimization of energy transfers. Brocas J, et al. **Biol Cybern** 1996 Mar;74(3):225–34
A possible thermodynamic approach to the change of rectal temperature of rabbits due to forced restricting conditions. Nakajima T, et al. **Biol Pharm Bull** 1997 Jul;20(7):743–8
Thermoregulatory dysfunction in neuroleptic malignant syndrome. Gurrera RJ, et al. **Biol Psychiatry** 1996 Feb 1; 39(3):207–12
Seasonal variation in core temperature regulation during sleep in patients with winter seasonal affective disorder. Schwartz PJ, et al. **Biol Psychiatry** 1997 Jul 15;42(2):122–31
Determination of testis temperature rhythms and effects of constant light on testicular function in the domestic fowl (Gallus domesticus). Beaupré CE, et al. **Biol Reprod** 1997 Jun;56(6):1570–5
Thermoregulation in critical illness [editorial; comment] Campbell IT. **Br J Anaesth** 1997 Feb;78(2):121–2. Comment on: Br J Anaesth 1997 Feb;78(2):123–7.
Dynamic aspects of oxygen consumption and carbon dioxide production in swine. van Milgen J, et al. **Br J Nutr** 1997 Sep;78(3):397–410
Effect of environmental temperature on muscle protein turnover and heat production in tube–fed broiler chickens. Yunianto VD, et al. **Br J Nutr** 1997 Jun;77(6):897–909
Heterophil/lymphocyte ratio as a selection criterion for heat resistance in domestic fowls. al–Murrani WK, et al. **Br Poult Sci** 1997 May;38(2):159–63
Paradoxical heat sensation in patients with multiple sclerosis. Evidence for a supraspinal integration of temperature sensation. Hansen C, et al. **Brain** 1996 Oct;119 (Pt 5):1729–36
Development of bombesin–like and histamine–like innervation in the bullfrog (Rana catesbeiana) central

nervous system. Leger JP, et al. **Brain Behav Evol** 1997; 49(2):63–77

Involvement of central neurotensin in thermoregulatory and neuroimmune function in pregnant rats exposed to heat. Nakamura H, et al. **Brain Behav Immun** 1997 Jun; 11(2):141–52

Sleep deprivation in rats with preoptic/anterior hypothalamic lesions. Feng PF, et al. **Brain Res** 1995 Dec 12; 703(1–2):93–9

The effects of temperature and synaptic blockade in vitro on neurons of the horizontal limb of the diagonal band of Broca in the rat basal forebrain. Hays T, et al. **Brain Res** 1997 Jan 23;746(1–2):52–8

Short-term stimulation-induced decreases in brown fat temperature. Kelly L, et al. **Brain Res** 1996 Apr 9; 715(1–2):172–9

Effects of mild hypothermia on cerebral blood flow-independent changes in cortical extracellular levels of amino acids following contusion trauma in the rat. Koizumi H, et al. **Brain Res** 1997 Feb 7;747(2):304–12

Role of cholinergic inputs to the medial preoptic area in regulation of sleep–wakefulness and body temperature in freely moving rats. Mallick BN, et al. **Brain Res** 1997 Mar 7;750(1–2):311–7

Examination of the afferent fiber responsible for the suppression of jaw-opening reflex in heat, cold, and manual acupuncture stimulation in rats. Okada K, et al. **Brain Res** 1996 Nov 18;740(1–2):201–7

Neural parameters contributing to temperature compensation in the flight CPG of the locust, Locusta migratoria. Xu H, et al. **Brain Res** 1996 Sep 23;734(1–2):213–22

Origin and evolution of sleep: roles of vision and endothermy. Kavanau JL. **Brain Res Bull** 1997;42(4):245–64 (239 ref.)

Interactions between body temperature regulation and blood acid–base status in anuran amphibians. Branco LG. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1191–6 (54 ref.)

Decreased body-core temperature during acute hypoxemia in guinea pigs during postnatal maturation: a regulated thermoregulatory response. Clark DJ, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):331–6

Comparative effects of acute volume expansion and short-term training on thermal and cardiovascular responses to prolonged exercise. Helyar R, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1087–94

Submandibular glands: novel structures participating in thermoregulatory responses. Mathison RD, et al. **Can J Physiol Pharmacol** 1997 May;75(5):407–13

Metabolic changes in elderly cancer patients after glucose ingestion. The role of tumor necrosis factor–alpha. Gambardella A, et al. **Cancer** 1997 Jan 1;79(1):177–84

Body temperature regulation in heart failure. Brengelmann GL. **Cardiologia** 1996 Nov;41(11):1033–43 (51 ref.)

Clinical studies of the vibration syndrome using a cold stress test measuring finger temperature. Gautherie M. **Cent Eur J Public Health** 1995;3 Suppl:5–10

Sympathetic vasoconstrictor responses in multiple sclerosis with thermo-regulatory dysfunction. Andersen EB, et al. **Clin Auton Res** 1997 Feb;7(1):13–6

Skin blood flow and autonomic reactivity in human poikilothermia. MacKenzie MA, et al. **Clin Auton Res** 1996 Apr;6(2):91–7

Hypertension, thermotolerance, and the "African gene": an hypothesis. Moskowitz DW. **Clin Exp Hypertens** 1996 Jan; 18(1):1–19 (97 ref.)

Fever's glass ceiling. Mackowiak PA, et al. **Clin Infect Dis** 1996 Mar;22(3):525–36 (147 ref.)

alpha-Adrenoceptor mechanisms of thermoregulation during cold challenge in humans. Frank SM, et al. **Clin Sci (Colch)** 1996 Nov;91(5):627–31

Bibliography of comparative biochemistry and physiology A generated from the Current Awareness in Biological Sciences database. **Comp Biochem Physiol A Physiol** 1997 Feb;116(2):I–VIII

Potential for non-shivering thermogenesis in perfused chicken (Gallus domesticus) muscle. Eldershaw TP, et al. **Comp Biochem Physiol A Physiol** 1997 Aug;117(4):545–54

Energy cost and thermoregulation of unrestrained rats during exercise in the cold. Mäkinen T, et al. **Comp Biochem Physiol A Physiol** 1996 May;114(1):57–63

Nonshivering thermogenesis in marsupials: absence of thermogenic response to beta 3-adrenergic agonists. Nicol SC, et al. **Comp Biochem Physiol A Physiol** 1997 Jul; 117(3):399–405

Effect of mild cold exposure on whole-body and net hindquarters glucose metabolism in sheep. Sano H, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):95–8

Hypothermia in hypoxic animals: mechanisms, mediators, and functional significance. Wood SC, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):37–43 (86 ref.)

Iron and thermoregulation: a review. Brigham D, et al. **Crit Rev Food Sci Nutr** 1996 Dec;36(8):747–63 (91 ref.)

Thermogenic, respiratory, and ultrasonic responses of week-old rats across the transition from moderate to extreme cold exposure. Sokoloff G, et al. **Dev Psychobiol** 1997 Apr;30(3):181–94

A complex retinoic acid response element in the uncoupling protein gene defines a novel role for retinoids in thermogenesis. Rabelo R, et al. **Endocrinology** 1996 Aug; 137(8):3488–96

The influence of exercise intensity on sweating efficiency of the whole body in a mild thermal condition. Kondo N, et al. **Ergonomics** 1996 Feb;39(2):225–31

Thermal responses and physiological strain in men wearing impermeable and semipermeable protective clothing in the cold. Rissanen S, et al. **Ergonomics** 1997 Feb;40(2):141–50

The effect of a rise in body temperature on the central-chemoreflex ventilatory response to carbon dioxide. Baker JF, et al. **Eur J Appl Physiol** 1996; 72(5–6):537–41

Sweat distribution before and after repeated heat exposure. Cotter JD, et al. **Eur J Appl Physiol** 1997;76(2):181–6

Effects of local restriction of evaporation and moderate local ventilation on thermoregulatory responses in exercising humans. Desruelle AV, et al. **Eur J Appl Physiol** 1996; 73(3–4):231–6

Exercise thermoregulation after 6 h of chair rest, 6 degrees head-down bed-rest, and water immersion deconditioning in men. Greenleaf JE, et al. **Eur J Appl Physiol** 1996; 72(4):303–9

Thermoregulatory responses of prepubertal boys and young men in changing temperature linearly from 28 to 15 degrees C. Inoue Y, et al. **Eur J Appl Physiol** 1996;72(3):204–8

Immune system of cold-exposed and cold-adapted humans. Janský L, et al. **Eur J Appl Physiol** 1996;72(5–6):445–50

The effect of ambient temperature and exercise intensity on post-exercise thermal homeostasis. Kenny GP, et al. **Eur J Appl Physiol** 1997;76(2):109–15

A comparison of human thermoregulatory response following dynamic exercise and warm-water immersion. Kenny GP, et al. **Eur J Appl Physiol** 1996;74(4):336–41

Effects of metabolic rate and ambient vapour pressure on heat strain in protective clothing. McLellan TM, et al. **Eur J Appl Physiol** 1996;74(6):518–27

Influence of angiotensin II blockade during exercise in the heat. Mittleman KD. **Eur J Appl Physiol** 1996; 72(5–6):542–7

Analysis of sweat evaporation from clothing materials by the ventilated sweat capsule method. Otomasu K, et al. **Eur J Appl Physiol** 1997;76(1):1–7

The effect of postural changes on body temperatures and heat balance. Tikuisis P, et al. **Eur J Appl Physiol** 1996; 72(5–6):451–9

Thermal responses to light, moderate and heavy daily outdoor work in cold weather. Virokannas H. **Eur J Appl Physiol** 1996;72(5–6):483–9

Thermoregulation at rest and during exercise in healthy older adults. Kenney WL. **Exerc Sport Sci Rev** 1997;25:41–76 (132 ref.)

The capacity to accumulate cyclic AMP in the preoptic-anterior hypothalamic area of the rat is affected by the exposition to low ambient temperature and the subsequent recovery. Zamboni G, et al. **Exp Brain Res** 1996 Apr;109(1):164–8

Change in heat loss as a part of adaptation to repeated cold exposures in adult and aged male C57BL/6J mice. Shefer VI, et al. **Exp Gerontol** 1997 May–Jun;32(3):325–32

Engine and radiator: fetal and placental interactions for heat dissipation. Schröder HJ, et al. **Exp Physiol** 1997 Mar; 82(2):403–14 (40 ref.)

CCK-X receptors in the endothermic mako shark (Isurus oxyrinchus). Oliver AS, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):61–73

A technique for identifying the total space or temperature dependent thermal parameters (TITP) of biological materials in vivo. Liu J, et al. **IEEE Trans Biomed Eng** 1996 Aug;43(8):847–50

Thermoregulatory spectrum in vertebrates. Varghese E, et al. **Indian J Exp Biol** 1996 Nov;34(11):1053–70 (164 ref.)

Thermal, cardiovascular & thermogenic responses to mild cold exposure in chronically energy deficient human subjects. Vaz M, et al. **Indian J Med Res** 1997 Apr; 105:180–6

Thermoregulation modulated by hypothalamic histamine in rats. Sakata T, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S35–6

Determination of body heat storage: how to select the weighting of rectal and skin temperatures for clothed subjects. Aoyagi Y, et al. **Int Arch Occup Environ Health** 1996;68(5):325–36

Convective and radiative heat transfer coefficients for individual human body segments. de Dear RJ, et al. **Int J Biometeorol** 1997 May;40(3):141–56

Thermal resistance parameters of the air environment at various altitudes. Kandjov IM. **Int J Biometeorol** 1997 Apr; 40(2):91–4

Integrative regulations of body temperature and body fluid in humans exercising in a hot environment. Nose H, et al. **Int J Biometeorol** 1997 Feb;40(1):42–9 (64 ref.)

Body core temperature of rats subjected to daily exercise limited to a fixed time. Shido O, et al. **Int J Biometeorol** 1997 May;40(3):135–40

Clothing microclimate temperatures during thermal comfort in boys, young and older men. Ueda H, et al. **Int J Biometeorol** 1996 Sep;39(3):127–32

Resting metabolic rate and diet-induced thermogenesis in restrained and unrestrained eaters. Platte P, et al. **Int J Eat Disord** 1996 Jul;20(1):33–41

Effect of food palatability on early (cephalic) phase of diet-induced thermogenesis in nonobese and obese man. Hashkes PJ, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):608–13

Influence of heat on Na(+)-dependent HCO3-/Cl- exchanger function in a thermoresistant cell line. Liu FF, et al. **Int J Radiat Biol** 1996 Oct;70(4):481–9

Divergent selection for heat loss in mice: II. Correlated responses in feed intake, body mass, body composition, and number born through fifteen generations. Nielsen MK, et al. **J Anim Sci** 1997 Jun;75(6):1469–76

Divergent selection for heat loss in mice: I. Selection applied and direct response through fifteen generations. Nielsen MK, et al. **J Anim Sci** 1997 Jun;75(6):1461–8

Thermal balance in infants. Bolton DP, et al. **J Appl Physiol** 1996 Jun;80(6):2234–42

Thermoregulatory control during pregnancy and lactation in rats. Eliason HL, et al. **J Appl Physiol** 1997 Sep; 83(3):837–44

Influence of pregnancy on the febrile response to ICV administration of PGE1 in rats studied in a thermocline. Eliason HL, et al. **J Appl Physiol** 1997 May;82(5):1453–8

Pregnancy alters body-core temperature response to a simulated open field in rats. Fewell JE, et al. **J Appl Physiol** 1997 May;82(5):1406–10

Autonomic and behavioral thermoregulation in guinea pigs during postnatal maturation. Fewell JE, et al. **J Appl Physiol** 1997 Sep;83(3):830–6

Appropriate thermal manipulations eliminate tremors in rats recovering from halothane anesthesia. Grahn DA, et al. **J Appl Physiol** 1996 Dec;81(6):2547–54

Eucapnic hypoxia lowers human cold thermoregulatory response thresholds and accelerates core cooling. Johnston CE, et al. **J Appl Physiol** 1996 Feb;80(2):422–9

Invited editorial on "Nitric oxide and thermoregulation during exercise in the horse" [editorial; comment] Joyner MJ. **J Appl Physiol** 1997 Apr;82(4):1033–4. Comment on: J Appl Physiol 1997 Apr;82(4):1035–9.

A relationship between heat loss and sleepiness: effects of postural change and melatonin administration. Kräuchi K, et al. **J Appl Physiol** 1997 Jul;83(1):134–9

Thermal and metabolic responses to cold-water immersion at knee, hip, and shoulder levels. Lee DT, et al. **J Appl Physiol** 1997 May;82(5):1523–30

Effect of three different warm-up regimens on heat balance and oxygen consumption of thoroughbred horses. Lund RJ, et al. **J Appl Physiol** 1996 Jun;80(6):2190–7

Head and body positions affect thermoregulatory tonus in deltoid muscles. Meigal AY, et al. **J Appl Physiol** 1996 Apr;80(4):1397–400

Nitric oxide and thermoregulation during exercise in the horse [see comments] Mills PC, et al. **J Appl Physiol** 1997 Apr;82(4):1035–9. Comment in: J Appl Physiol 1997 Apr;82(4):1033–4.

Effect of hypoglycemia on thermoregulatory responses. Passias TC, et al. **J Appl Physiol** 1996 Mar;80(3):1021–32

Control of skin blood flow in the neutral zone of human body temperature regulation. Savage MV, et al. **J Appl Physiol** 1996 Apr;80(4):1249–57

Lumped-parameter tissue temperature-blood perfusion model of a cold-stressed fingertip. Shitzer A, et al. **J Appl Physiol** 1996 May;80(5):1829–34

Wet-cold exposure and hypothermia: thermal and metabolic responses to prolonged exercise in rain. Thompson RL, et al. **J Appl Physiol** 1996 Sep;81(3):1128–37

Ozone toxicity in the mouse: comparison and modeling of responses in susceptible and resistant strains. Watkinson WP, et al. **J Appl Physiol** 1996 Jun;80(6):2134–42

Effect of drink flavor and NaCL on voluntary drinking and hydration in boys exercising in the heat. Wilk B, et al. **J Appl Physiol** 1996 Apr;80(4):1112–7

Hormonal secretion patterns but not autonomic effector responses elicited by hypothalamic heating and cooling are altered in febrile rabbits. Keil R, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):193–201

Effect of heat stress on muscle sympathetic nerve activity in humans. Niimi Y, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1–2):61–7

Dominant role of the second heat shock element in expression of the HSP70-1 gene in rat liver after whole body hyperthermia. Konishi T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1021–9

Uncoupling protein-3 is a mediator of thermogenesis regulated by thyroid hormone, beta3-adrenergic agonists, and leptin. Gong DW, et al. **J Biol Chem** 1997 Sep 26; 272(39):24129–32

Lesion of the serotonergic terminals in the suprachiasmatic nuclei limits the phase advance of body temperature rhythm in food-restricted rats fed during daytime. Challet E, et al. **J Biol Rhythms** 1997 Jun;12(3):235–44

Suprachiasmatic nuclei lesions do not eliminate homeostatic thermoregulatory responses in rats. Wachulec M, et al. **J Biol Rhythms** 1997 Jun;12(3):226–34

A counter current vascular network model of heat transfer in tissues. Huang HW, et al. **J Biomech Eng** 1996 Feb; 118(1):120–9

Active warming, not passive heat retention, maintains normothermia during combined epidural–general anesthesia for hip and knee arthroplasty. Berti M, et al. **J Clin Anesth** 1997 Sep;9(6):482–6

The pineal complex and melatonin affect the expression of the daily rhythm of behavioral thermoregulation in the green iguana. Tosini G, et al. **J Comp Physiol [A]** 1996; 179(1):135–42

Facultative hypothermia as a thermoregulatory strategy in the phyllostomid bats, Carollia perspicillata and Sturnira

lilium. Audet D, et al. **J Comp Physiol [B]** 1997 Feb; 167(2):146–52

Temperature regulation and metabolism of an Australian bat, Chalinolobus gouldii (Chiroptera:Vespertilionidae) when euthermic and torpid. Hosken DJ, et al. **J Comp Physiol [B]** 1997 Jan;167(1):71–80

Osmotic stress effects on the freezing tolerance of the antarctic nematode Panagrolaimus davidi. Wharton DA, et al. **J Comp Physiol [B]** 1996;166(5):344–9

Effects of ruminally inert fat and evaporative cooling on dairy cows in hot environmental temperatures. Chan SC, et al. **J Dairy Sci** 1997 Jun;80(6):1172–8

Mitochondrial function is not decreased in stunned papillary muscle at 20 degrees C. Zuurbier CJ, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):347–55

Exposure to heat shock affects thermosensitivity of the locust flight system. Robertson RM, et al. **J Neurobiol** 1996 Mar; 29(3):367–83

Continuous monitoring and regulating of brain temperature in the conscious and freely moving ischemic gerbil: effect of MK–801 on delayed neuronal death in hippocampal CA1. Zhang L, et al. **J Neurosci Res** 1997 Feb 15; 47(4):440–8

Force–dependent and force–independent heat production in single slow– and fast–twitch muscle fibres from Xenopus laevis. Buschman HP, et al. **J Physiol (Lond)** 1996 Oct 15; 496 (Pt 2):503–19

Cellular mechanisms for neuronal thermosensitivity in the rat hypothalamus. Griffin JD, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):231–42

Cooling inhibits exocytosis in single mouse pancreatic B–cells by suppression of granule mobilization. Renström E, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):41–52

Human acclimation to work in warm and humid environments. Kubica R, et al. **J Physiol Pharmacol** 1996 Sep;47(3):515–24

Contribution of the scrotum and testes to scrotal and testicular thermoregulation in bulls and rams. Kastelic JP, et al. **J Reprod Fertil** 1996 Sep;108(1):81–5

Effects of acute and chronic inhibition of nitric oxide synthase on brown adipose tissue thermogenesis. Saha SK, et al. **Jpn J Physiol** 1996 Oct;46(5):375–82

The influence of work loads on regional differences in sweating rates. Takano S, et al. **Jpn J Physiol** 1996 Apr; 46(2):183–6

Thermogenic responses to high–energy phosphate contents and/or hindlimb suspension in rats. Wakatsuki T, et al. **Jpn J Physiol** 1996 Apr;46(2):171–5

The impact of beta–adrenergic blockade on daily rhythms of melatonin and body temperature of golden spiny mice Acomys russatus. Haim A, et al. **Life Sci** 1997;61(7):703–9

Swimming training improves brown–adipose–tissue activity in young and old mice. Oh–ishi S, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):67–78

Relationship between aerobic power, blood volume, and thermoregulatory responses to exercise–heat stress. Yoshida T, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):867–73

Protein kinase C from bat brain: the enzyme from a hibernating mammal. Mehrani H, et al. **Neurochem Int** 1997 Jul;31(1):139–50

Neuroendocrine and autonomous mechanisms underlying thermoregulation in cold environment. Arancibia S, et al. **Neuroendocrinology** 1996 Oct;64(4):257–67 (65 ref.)

Regulation of interneuron function in the C. elegans thermoregulatory pathway by the ttx–3 LIM homeobox gene. Hobert O, et al. **Neuron** 1997 Aug;19(2):345–57

Body temperature regulation in the newborn infant: interaction with sleep and clinical implications. Bach V, et al. **Neurophysiol Clin** 1996;26(6):379–402 (147 ref.)

A role for central glucagon–like peptide–1 in temperature regulation. O'Shea D, et al. **Neuroreport** 1996 Feb 29; 7(3):830–2

Advances of human core temperature minimum and maximal paradoxical sleep propensity by ambient thermal transients. Dewasmes G, et al. **Neurosci Lett** 1996 Aug 30;215(1):25–8

The hypothermic effect of late evening melatonin does not block the phase delay induced by concurrent bright light in human subjects. Kräuchi K, et al. **Neurosci Lett** 1997 Aug 22;232(1):57–61

Effects of hypothermia on the neuronal activity, [Ca2+]i accumulation and ATP levels during oxygen and/or glucose deprivation in hippocampal slices of guinea pigs. Takata T, et al. **Neurosci Lett** 1997 May 9;227(1):41–4

A C–terminal cyclic 8–13 neurotensin fragment analog appears less exposed to neprilysin when it crosses the blood–brain barrier than the cerebrospinal fluid–brain barrier in mice. Van Kemmel FM, et al. **Neurosci Lett** 1996 Oct 11;217(1):58–60

Role of hypothalamic neuropeptide Y neurons in the defective thermogenic response to acute cold exposure in fatty Zucker rats. Bing C, et al. **Neuroscience** 1997 Sep; 80(1):277–84

The effect of temperature on the ventilatory response to carbon dioxide in the neonatal rat. Malcolm GA, et al. **Pediatr Res** 1996 Sep;40(3):504–7

Cardiovascular and respiratory consequences of body warming during hypoxia in conscious newborn cats. Rohlicek CV, et al. **Pediatr Res** 1996 Jul;40(1):1–5

Acute and adaptive responses in humans to exercise in a warm, humid environment. Nielsen B, et al. **Pflugers Arch** 1997 May;434(1):49–56

Behavioral and autonomic thermoregulation in the rat following propylthiouracil–induced hypothyroidism. Gordon CJ. **Pharmacol Biochem Behav** 1997 Sep; 58(1):231–6

Effects of cold acclimation and central opioid processes on thermoregulation in rats. Wilson JR, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):317–25

Effect of restraint on drug–induced changes in skin and core temperature in biotelemetered rats. Wright BE, et al. **Pharmacol Biochem Behav** 1996 Oct;55(2):219–25

EEG arousal, sympathetic activity, and brown adipose tissue thermogenesis after conditioned taste aversion. Amaro S, et al. **Physiol Behav** 1996 Jul;60(1):71–5

Effects of preloads of water and saline on thermal dehydration–induced thirst. Barney CC. **Physiol Behav** 1997 May;61(5):763–9

Selected temperature correlates with intensity of fever in rats. Briese E. **Physiol Behav** 1997 May;61(5):659–60

Selective activation of CCK–B receptors does not induce sleep and does not affect EEG slow–wave activity and brain temperature in rats. Chang HY, et al. **Physiol Behav** 1997 Jul;62(1):175–9

Patterns of body temperature, activity, and reproductive behavior in a tropical murid rodent, Arvicanthis niloticus. McElhinny TL, et al. **Physiol Behav** 1997 Jul;62(1):91–6

Lesions of the ventromedial hypothalamus reduce postingestional thermogenesis. Monda M, et al. **Physiol Behav** 1997 May;61(5):687–91

Effects of ethanol consumption on brown adipose tissue thermogenic capacity in mice. Muralidhara DV, et al. **Physiol Behav** 1996 Aug;60(2):639–44

Nocturnal digestion, cloacal excretion, and digestion–related thermogenesis in pigeons (Columba livia). Rashotte ME, et al. **Physiol Behav** 1997 Jan;61(1):83–92

Rhythms of body temperature and temperature selection are out of phase in a diurnal rodent, Octodon degus. Refinetti R. **Physiol Behav** 1996 Sep;60(3):959–61

Effect of temperature and food intake on metabolic rate and posture of preruminant calves. Roefs JP, et al. **Physiol Behav** 1996 Jul;60(1):203–9

Grooming secretions and seasonal adaptations in the blind mole rat (Spalax ehrenbergi). Shanas U, et al. **Physiol Behav** 1996 Aug;60(2):653–6

Metabolic fuel availability influences thermoregulation in deer mice (Peromyscus maniculatus). Stamper JL, et al. **Physiol Behav** 1997 Apr;61(4):521–4

Cold acclimation–associated changes in brown adipose tissue do not necessarily indicate an increase of nonshivering thermogenesis in C57BL/6J mice. Talan MI, et al. **Physiol Behav** 1996 Nov;60(5):1285–9

Postexercise thermoregulatory behavior and recovery from exercise in desert iguanas. Wagner EL, et al. **Physiol Behav** 1997 Feb;61(2):175–80

Diet–induced thermogenesis and satiety in humans after full–fat and reduced–fat meals. Westerterp–Plantenga MS, et al. **Physiol Behav** 1997 Feb;61(2):343–9

Cellular energy utilization and molecular origin of standard metabolic rate in mammals. Rolfe DF, et al. **Physiol Rev** 1997 Jul;77(3):731–58 (221 ref.)

Ontogeny of the thermal limits in the harbor seal (Phoca vitulina). Hansen S, et al. **Physiol Zool** 1997 Jan–Feb; 70(1):85–92

Seasonal variations in the temperature acclimation response of the channel catfish, Ictalurus punctatus. Seddon WL, et al. **Physiol Zool** 1997 Jan–Feb;70(1):33–44

Environmental heat stress does not reduce blood ionized calcium concentration in hens acclimated to elevated temperatures. Samara MH, et al. **Poult Sci** 1996 Feb; 75(2):197–200

Fluctuations of rectal and tympanic temperatures with changes of ambient temperature during night sleep. Hashizume Y. **Psychiatry Clin Neurosci** 1997 Jun; 51(3):129–33

Arousal responses of the newborn piglet to airways obstruction and rebreathing during normothermia and hyperthermia. Galland BC, et al. **Reprod Fertil Dev** 1996; 8(3):365–71

Cerebral, tympanic and colonic thermometry in the piglet. Haaland K, et al. **Reprod Fertil Dev** 1996;8(1):125–8

Respiratory responses to preoptic/anterior hypothalamic warming during sleep in kittens. Ni H, et al. **Reprod Fertil Dev** 1996;8(1):79–86

Effect of fetal thyroidectomy on brown adipose tissue and thermoregulation in newborn lambs. Schermer SJ, et al. **Reprod Fertil Dev** 1996;8(6):995–1002

Effect of ambient temperature on respiratory chemoreflex in unanaesthetized kittens. Watanabe T, et al. **Respir Physiol** 1996 Dec;106(3):239–46

Honeybee thermoregulation [letter; comment] Heinrich B, et al. **Science** 1997 May 16;276(5315):1015; discussion 1016–7. Comment on: Science 1996 Oct 4;274(5284):88–90.

Honeybee thermoregulation [letter; comment] Stevenson RD, et al. **Science** 1997 May 16;276(5315):1015–6; discussion 1016–7. Comment on: Science 1996 Oct 4;274(5284):88–90.

Recurrent coma. Sheth RD. **Semin Pediatr Neurol** 1996 Sep; 3(3):222–5

Thermoregulation in spinal cord injury: the challenge of the Atlanta Paralympics. McCann BC. **Spinal Cord** 1996 Jul; 34(7):433–6 (19 ref.)

Scrotal/testicular thermoregulation and the effects of increased testicular temperature in the bull. Kastelic JP, et al. **Vet Clin North Am Food Anim Pract** 1997 Jul; 13(2):271–82 (36 ref.)

Heat production, body temperature, and body posture in west African dwarf goats infected with Trypanosoma vivax. van Dam JT, et al. **Vet Q** 1996 Jun;18(2):55–9

[Paresthesia, pain, coldness of the arm and possible responsibility of the thoraco–brachial outlet syndrome] Baste JC, et al. **J Mal Vasc** 1996;21(5):329–32; discussion 333 (Eng. Abstr.) **(Fre)**

[The effect of convection warming during abdominal surgery on the early postoperative heat balance] Kaudasch G, et al. **Anaesthesist** 1996 Nov;45(11):1075–81 (Eng. Abstr.) **(Ger)**

[The comparative effectiveness of different infusion and blood warming methods] Schmidt JH, et al. **Anaesthesist** 1996 Nov;45(11):1067–74 (Eng. Abstr.) **(Ger)**

[Temperature distribution pattern in liver tissue in freezing procedures with new cryoprobes] Berger WK, et al. **Chirurg** 1996 Aug;67(8):833–8 (Eng. Abstr.) **(Ger)**

[Temperature changes of the cornea by applying an eye bandage] Schrage NF, et al. **Ophthalmologe** 1997 Jul; 94(7):492–5 (Eng. Abstr.) **(Ger)**

[Evolution of methodical approaches to solve problem of evaluating and predicting the thermal status of cosmonauts in the real flight] Kuznets EI, et al. **Aviakosm Ekolog Med** 1996;30(5):52–4 (7 ref.) (Eng. Abstr.) **(Rus)**

[The circadian dynamics of body temperature and of the cardiorespiratory system of the human body during non–competitive yachting] Agadzhanian NA, et al. **Fiziol Cheloveka** 1997 May–Jun;23(3):63–7 **(Rus)**

[Regulation of respiration in people with hypothermic and euthermic reactions during exposure to cold] Divert GM, et al. **Fiziol Cheloveka** 1996 Nov–Dec;22(6):118–23 **(Rus)**

[Effect of total body cooling on local skin thermal sensitivity] Divert VE, et al. **Fiziol Cheloveka** 1996 Nov–Dec; 22(6):90–4 **(Rus)**

[Biochemical parameters in the development of extreme hyperthermia] Goranchuk VV, et al. **Fiziol Cheloveka** 1997 Jul–Aug;23(4):98–105 **(Rus)**

[Functional state of the temperature analyzer of operators in the gas condensation industry under conditions of hot climate] Khudaiberdiev MD, et al. **Fiziol Cheloveka** 1997 Jan–Feb;23(1):20–4 **(Rus)**

[Features of hormonal regulation of carbohydrate and lipid metabolism in people trained for conditions of immersion hypothermia] Povazhenko AA, et al. **Fiziol Cheloveka** 1997 Jan–Feb;23(1):66–9 **(Rus)**

[Reactions of hand vessels to indirect cooling] Raigorodskaia TG, et al. **Fiziol Cheloveka** 1996 Jan–Feb;22(1):138–9 **(Rus)**

[The effect of the blood flow rate on blood heat emission in the vascular bed of the skin] Luchakov IuI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):78–82 (Eng. Abstr.) **(Rus)**

[The effect of preliminary acute hypothermia on the temperature–regulating activity of the motor units in rat skeletal muscle] Pashkova IG, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):93–9 (Eng. Abstr.) **(Rus)**

[The hygienic regulation of the ergothermic body exposure of adolescents based on the biocontrol of warming] Gumener PI, et al. **Gig Sanit** 1996 May–Jun;(3):24–7 (Eng. Abstr.) **(Rus)**

[Comparative characterization of the thermoregulatory activity of motor units in "spinal" and intact cats] Lupandin IuV, et al. **Patol Fiziol Eksp Ter** 1996 Oct–Dec;(4):42–4 (Eng. Abstr.) **(Rus)**

[Changes in the physiological functions, the mechanisms of their recovery and the temperature limits for life under hypothermia] Ivanov KP. **Usp Fiziol Nauk** 1996 Jul–Sep; 27(3):84–105 (66 ref.) (Eng. Abstr.) **(Rus)**

[Heat transfer, convection and altitudinal gradient] Bozinovic F, et al. **Arch Biol Med Exp (Santiago)** 1987;20(1):85–8 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Thermoregulatory responses of febrile monkeys during microwave exposure. Adair ER, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:497–507

Neuropeptides, radiation, and thermoregulation. Kandasamy SB. **Ann N Y Acad Sci** 1997 Mar 15;813:344–52

Do metabolic responses to solar radiation scale directly with intensity of irradiance? Walsberg GE, et al. **J Exp Biol** 1997 Aug;200 (Pt 15):2115–21

Age does not affect thermal and cardiorespiratory responses to microwave heating in calorically restricted rats. Ryan KL, et al. **Shock** 1997 Jul;8(1):55–60

BODY TYPES see **SOMATOTYPES**

BODY WATER

Investigation of organic vapor losses to condensed water vapor in Tedlar bags used for exhaled–breath sampling. Groves WA, et al. **Am Ind Hyg Assoc J** 1996 Mar; 57(3):257–63

Analysis of body water compartments in relation to tissue depletion in clinically stable patients with chronic obstructive pulmonary disease. Baarends EM, et al. **Am J Clin Nutr** 1997 Jan;65(1):88–94

BODY WATER

Total and percentage body water in healthy Nigerian children aged 5–15 years. Owa JA, et al. **Ann Trop Paediatr** 1997 Mar;17(1):67–76

Influence of respiratory distress syndrome on body composition after preterm birth. Tang W, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F28–31

Assessment of dermal water by high-frequency ultrasound: comparative studies with nuclear magnetic resonance. Gniadecka M, et al. **Br J Dermatol** 1996 Aug;135(2):218–24

Measurement of soft tissue composition by dual energy X-ray absorptiometry. Jebb SA. **Br J Nutr** 1997 Feb;77(2):151–63 (57 ref.)

The prediction of total body water from bioelectrical impedance in patients with anorexia nervosa. Scalfi L, et al. **Br J Nutr** 1997 Sep;78(3):357–65

Dermatologic aspects of mineral water. Bernstein JE. **Clin Dermatol** 1996 Nov–Dec;14(6):567–9 (12 ref.)

Physiology of water. Rosenfeld LM. **Clin Dermatol** 1996 Nov–Dec;14(6):555–61

Estimation of total body and extracellular water in post-coronary artery bypass graft surgical patients using single and multiple frequency bioimpedance [see comments] Patel RV, et al. **Crit Care Med** 1996 Nov;24(11):1824–8. Comment in: Crit Care Med 1997 May;25(5):894–5.

Extracellular water measured by bioimpedance [letter; comment] Schloerb PR. **Crit Care Med** 1997 May; 25(5):894–5. Comment on: Crit Care Med 1996 Nov;24(11):1824–8.

The prediction of total body water and extracellular water from bioelectric impedance in obese children. Bedogni G, et al. **Eur J Clin Nutr** 1997 Mar;51(3):129–33

Altered body water distribution in subjects with juvenile rheumatoid arthritis and its effects on the measurement of water compartments from bioelectric impedance. Bedogni G, et al. **Eur J Clin Nutr** 1996 Jun;50(6):335–9

Regional cerebral edema and chloride space in galactosamine-induced liver failure in rats. Gove CD, et al. **Hepatology** 1997 Feb;25(2):295–301

Desiccation survival and water contents of entomopathogenic nematodes, Steinernema spp. (Rhabditida:Steinernematidae). Patel MN, et al. **Int J Parasitol** 1997 Jan;27(1):61–70

Separation of water and fat MR images in a single scan at .35 T using "sandwich" echoes. Zhang W, et al. **J Magn Reson Imaging** 1996 Nov–Dec;6(6):909–17

Determination of total body water by a simple and rapid mass spectrometric method. Van Kreel BK, et al. **J Mass Spectrom** 1996 Jan;31(1):108–11

Recirculatory pharmacokinetic models of markers of blood, extracellular fluid and total body water administered concomitantly. Krejcie TC, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1050–7

Measurement of extravascular lung water by the double indicator dilution method using heat and sodium in horses under general anesthesia. Ito S, et al. **J Vet Med Sci** 1996 Dec;58(12):1205–9

Organ weight: a new tissue parameter to assess water proton spin-lattice relaxation time. Akber SF. **Med Hypotheses** 1997 Jan;48(1):71–5

Assessment of total body water and lean body mass from anthropometry, Watson formula, creatinine kinetics, and body electrical impedance compared with antipyrine kinetics in peritoneal dialysis patients. de Fijter WM, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):151–6

The effect of arteriovenous fistulae in haemodialysis patients on whole body and segmental bioelectrical impedance. Woodrow G, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):524–7

Measurement of body composition changes during hemodialysis by bioimpedance analysis. Morais AA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul–Aug; 51(4):121–3

[A method of monitoring toxic liver damage based on changes in the total water level and magnetic-relaxation characteristics] Tsibulevskii AIu, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):584–6 **(Rus)**

CHEMISTRY

Molecular basis of magnetic relaxation of water protons of tissue. Koenig SH. **Acad Radiol** 1996 Jul;3(7):597–606

Sebum and water content in the skin of aged immobilized patients. Aisen E, et al. **Acta Derm Venereol** 1997 Mar; 77(2):142–3

Daily physical activity assessment: comparison between movement registration and doubly labeled water. Bouten CV, et al. **J Appl Physiol** 1996 Aug;81(2):1019–26

Effect of test environment on intervertebral disc hydration. Pflaster DS, et al. **Spine** 1997 Jan 15;22(2):133–9

DRUG EFFECTS

Effect of lactic acid on water content and osmotic fragility of erythrocytes in vivo. Kogawa H, et al. **J Sports Med Phys Fitness** 1997 Mar;37(1):61–4

The effect of mefloquine and quinine on the relaxation times of water protons in human erythrocytes, as revealed by NMR. Nishina M, et al. **Physiol Chem Phys Med NMR** 1996;28(1):35–9

[Effect of low-dose polyethylene glycol 4000 on fecal consistency and dilution water in healthy subjects] Bernier JJ, et al. **Gastroenterol Clin Biol** 1997;21(1):7–11 (Eng. Abstr.) **(Fre)**

[Action of biologically active peptides and steroids on nuclear magnetic resonance relaxation of protons of kidney tissue water in vitro] Komarevtseva IA, et al. **Ukr Biokhim Zh** 1996 Jul–Aug;68(4):91–5 (Eng. Abstr.) **(Rus)**

METABOLISM

Prediction of body cell mass, fat-free mass, and total body water with bioelectrical impedance analysis: effects of race, sex, and disease. Kotler DP, et al. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):489S–497S

Effects of density and of dehydration of sickle cells on their adhesion to cultured endothelial cells. Stone PC, et al. **Am J Hematol** 1996 Jul;52(3):135–43

Nordihydroguaiaretic acid depletes ATP and inhibits a swelling-activated, ATP-sensitive taurine channel. Ballatori N, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1429–36

Swelling-activated K+ transport via two functionally distinct pathways in eel erythrocytes. Bursell JD, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R61–70

Swelling and cAMP on hyperpolarization-activated Cl- conductance in rat Leydig cells. Noulin JF, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C74–84

Nuclear magnetic resonance study of lung water compartments in the rat. Shioya S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L772–8

Measurement of tissue volume during non-steady state high-intensity muscle contraction. Ward DS, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1682–90

Interaction of type I and type II corticosteroid receptor stimulation on carcass energy and carcass water. White BD, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1099–108

Prediction of total body water in Indian men from anthropometry and bioelectrical impedance using deuterium dilution as reference. Borgonha S, et al. **Ann Hum Biol** 1997 Jul–Aug;24(4):355–61

Assessment of body hydration in subjects with schistosomiasis. De Lorenzo A, et al. **Ann Hum Biol** 1997 Jul–Aug;24(4):315–21

Coffee consumption and total body water homeostasis as measured by fluid balance and bioelectrical impedance analysis. Neuhäuser-Berthold, et al. **Ann Nutr Metab** 1997; 41(1):29–36

Effect of sustained loading on the water content of intervertebral discs: implications for disc metabolism. McMillan DW, et al. **Ann Rheum Dis** 1996 Dec; 55(12):880–7

Assessment of total body water in hemodialysis patients by a single oral dose of antipyrine. Odar-Cederlöf I, et al. **ASAIO J** 1996 Jul–Aug;42(4):271–4

Gastrointestinal lavage reduces total body water. Buckland GH, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):123–5

Effect of acute exposure to hypoxia on electrolytes and water metabolism regulatory hormones. De Angelis C, et al. **Aviat Space Environ Med** 1996 Aug;67(8):746–50

Water metabolic parameter changes in rhesus monkeys during exposure to prolonged restriction of motor activity. Zorbas YG, et al. **Biol Trace Elem Res** 1997 May; 57(2):169–81

Dehydration of transferrin receptor-positive sickle reticulocytes during continuous or cyclic deoxygenation: role of KCl cotransport and extracellular calcium. Franco RS, et al. **Blood** 1996 Dec 1;88(11):4359–65

Multi-frequency bioelectric impedance measurements for predicting body water compartments in patients with non-ascitic liver cirrhosis. Borghi A, et al. **Br J Nutr** 1996 Sep;76(3):325–32

The influence of preischemic hyperglycemia on acute changes in the apparent diffusion coefficient of brain water following global ischemia in rats. Huang NC, et al. **Brain Res** 1997 May 16;757(1):139–45

Water and temperature relations and microconidial germination of Fusarium moniliforme and Fusarium proliferatum from maize. Marín S, et al. **Can J Microbiol** 1996 Oct;42(10):1045–50

Water channels and urea transporters. Wintour EM. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):1–9 (78 ref.)

Measurement of total body water and urea kinetic modelling in peritoneal dialysis. Woodrow G, et al. **Clin Nephrol** 1997 Jan;47(1):52–7

Urea and amphibian water economy. Jørgensen CB. **Comp Biochem Physiol A Physiol** 1997 Jun;117(2):161–70 (87 ref.)

Water turnover evaluated by the tritiated water method and by the nutritional method in European hedgehog (Erinaceus europaeus L.). Vignault MP, et al. **Comp Biochem Physiol A Physiol** 1996 Nov;115(3):187–94

A new data-acquisition system for the measurement of the net water flux across epithelia. Dorr RA, et al. **Comput Methods Programs Biomed** 1997 May;53(1):9–14

Colocalization of hyaluronan and water in rabbit corneas after photorefractive keratectomy by specific staining for hyaluronan and by quantitative microradiography. Weber BA, et al. **Cornea** 1997 Sep;16(5):560–3

Cysteine and ascorbate loss in the diabetic rat lens prior to hydration changes. Mitton KP, et al. **Curr Eye Res** 1997 Jun;16(6):564–71

Transepidermal water loss measurements in patch test assessment: the need for standardisation. Rogiers V. **Curr Probl Dermatol** 1995;23:152–8

Occlusion does not influence the repair of the permeability barrier in human skin. Welzel J, et al. **Curr Probl Dermatol** 1995;23:180–6

Regulation of renal sodium and water excretion in the nephrotic syndrome and cirrhosis of the liver. Jespersen B. **Dan Med Bull** 1997 Apr;44(2):191–207 (230 ref.)

Jejunal water and electrolyte transport in human cryptosporidiosis. Kelly P, et al. **Dig Dis Sci** 1996 Oct; 41(10):2095–9

Changes in body water compartments with diuretic therapy in infants with chronic lung disease. Segar JL, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):99–107

Water and ion losses during the cross-country phase of eventing. Ecker GL, et al. **Equine Vet J Suppl** 1995 Nov; (20):111–9

Measurement of total body water by bioelectrical impedance in chronic renal failure. Woodrow G, et al. **Eur J Clin Nutr** 1996 Oct;50(10):676–81

Plasma and skin suction-blister-fluid pharmacokinetics and time course of the effects of oral mizolastine. Chosidow O, et al. **Eur J Clin Pharmacol** 1996;50(4):327–33

Water distribution in insulin-dependent diabetes mellitus in various states of metabolic control [see comments] Brizzolara A, et al. **Eur J Endocrinol** 1996 Nov; 135(5):609–15 (42 ref.). Comment in: Eur J Endocrinol 1996 Nov;135(5):535.

Water balance in insulin-dependent diabetes mellitus can now be studied with non-invasive techniques: an invited commentary [comment] Sowers JR. **Eur J Endocrinol** 1996 Nov;135(5):535. Comment on: Eur J Endocrinol 1996 Nov;135(5):609–15.

Excess extrafetal fluid without demonstrable changes in placental concentration gradients after week-long infusions of angiotensin into fetal lambs. Anderson DF, et al. **Eur J Obstet Gynecol Reprod Biol** 1995 Dec;63(2):175–9

Amiodarone affects membrane water permeability properties of human erythrocytes and rat mitochondria. Federico A, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):237–41

Rectal distention-induced colonic net water secretion in rats involves tachykinins, capsaicin sensory, and vagus nerves. Eutamene H, et al. **Gastroenterology** 1997 May; 112(5):1595–602

Transplantation of RPE in age-related macular degeneration: observations in disciform lesions and dry RPE atrophy. Algvere PV, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Mar;235(3):149–58

Measurement of glucose and water transport in the human duodenum in vivo using a dialysis bag. Rolston DD. **Hepatogastroenterology** 1997 Jan–Feb;44(13):68–71

Salty language is confusing. Segal AS. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):81–4

Bioelectrical impedance analysis: clinical tool in assessing total body water and thoracic fluid. De Vries PM, et al. **Int J Artif Organs** 1995 Nov;18(11):693–9

Bioelectrical impedance and hemodialysis. Mandolfo S, et al. **Int J Artif Organs** 1995 Nov;18(11):700–4

Dew-point hygrometry system for measurement of evaporative water loss in infants. Ariagno RL, et al. **J Appl Physiol** 1997 Mar;82(3):1008–17

Thermal and circulatory responses during exercise: effects of hypohydration, dehydration, and water intake. Armstrong LE, et al. **J Appl Physiol** 1997 Jun;82(6):2028–35

Restraint vs. hindlimb suspension on fluid and electrolyte balance in rats. Bouzeghrane F, et al. **J Appl Physiol** 1996 Jun;80(6):1993–2001

Analysis of respiratory water--a new method for evaluation of myocardial energy metabolism. Schwanke U, et al. **J Appl Physiol** 1996 Nov;81(5):2115–22

Water balance and acute mountain sickness before and after arrival at high altitude of 4,350 m. Westerterp KR, et al. **J Appl Physiol** 1996 Jun;80(6):1968–72

The state of tissue hydration determines the strain-rate-sensitive stiffness of human patellar tendon. Haut TL, et al. **J Biomech** 1997 Jan;30(1):79–81

Measurement and simulation of water transport during freezing in mammalian liver tissue. Pazhayannur PV, et al. **J Biomech Eng** 1997 Aug;119(3):269–77

MRI measurements of water diffusion and cerebral perfusion: their relationship in a rat model of focal cerebral ischemia. Pierce AR, et al. **J Cereb Blood Flow Metab** 1997 Feb; 17(2):183–90

Short-term growth hormone (GH) treatment of GH-deficient adults increases body sodium and extracellular water, but not blood pressure. Hoffman DM, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1123–8

Deuterium and bromide dilution, and bioimpedance spectrometry independently show that growth hormone-deficient adults have an enlarged extracellular water compartment related to intracellular water. van Marken Lichtenbelt WD, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):907–11

Developmental changes in water permeability across the alveolar barrier in perinatal rabbit lung. Carter EP, et al. **J Clin Invest** 1997 Sep 1;100(5):1071–8

T2 relaxation time of bone marrow water and lipid: correlation with serum ferritin in normal individuals. Ishijima H, et al. **J Comput Assist Tomogr** 1997 May–Jun; 21(3):506–8

Metabolism of water, sodium, potassium, and chlorine by high yielding dairy cows at the onset of lactation. Silanikove N, et al. **J Dairy Sci** 1997 May;80(5):949–56

Age-related changes of water content in the rat skin. Jung JW, et al. **J Dermatol Sci** 1997 Jan;14(1):12–9

Role of volume status in vasopressin-induced natriuresis: studies in Brattleboro rats. Walter SJ, et al. **J Endocrinol** 1996 Oct;151(1):49-54

Water distribution and permeability of zebrafish embryos, Brachydanio rerio. Hagedorn M, et al. **J Exp Zool** 1997 Aug 15;278(6):356-71

Cell swelling activates the K+ conductance and inhibits the Cl- conductance of the basolateral membrane of cells from a leaky epithelium. Torres RJ, et al. **J Gen Physiol** 1997 Jan;109(1):61-72

Detection of different water populations in brain tissue using 2H single- and double-quantum-filtered diffusion NMR spectroscopy. Assaf Y, et al. **J Magn Reson B** 1996 Aug; 112(2):151-9

Water diffusion and exchange as they influence contrast enhancement. Donahue KM, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):102-10 (47 ref.)

Determination of 1H relaxation times of water in human bone marrow by fat-suppressed turbo spin echo in comparison to MR spectroscopic methods. Träber F, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):541-8

Correlation between transepithelial Na+ transport and transepithelial water movement across isolated frog skin (Rana esculenta). Nielsen R. **J Membr Biol** 1997 Sep 1; 159(1):61-9

The soft tissue cover of the mandibular condyle: age-related changes in high buoyant density proteoglycans, free tissue water and remodelling activity. Müller K, et al. **J Orofac Orthop** 1996 Oct;57(5):310-21 **(Eng, Ger)**

Dexmedetomidine inhibits osmotic water permeability in the rat cortical collecting duct. Rouch AJ, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):62-9

Diffusion of water in rat sciatic nerve measured by 1H pulsed field gradient NMR: compartmentation and anisotropy. Seo Y, et al. **Jpn J Physiol** 1996 Apr;46(2):163-9

Monitoring of extracellular and total body water during haemodialysis using multifrequency bio-electrical impedance analysis. Johnson DW, et al. **Kidney Blood Press Res** 1996;19(2):94-9

Development of a population-specific regression equation to estimate total body water in hemodialysis patients. Chertow GM, et al. **Kidney Int** 1997 May;51(5):1578-82

Living on chronic hemodialysis between dryness and fluid overload. Franz M, et al. **Kidney Int Suppl** 1997 Jun; 59:S39-42 (35 ref.)

Pathogenesis of water and sodium retention in cirrhosis. Martin PY, et al. **Kidney Int Suppl** 1997 Jun;59:S43-9 (66 ref.)

Sodium and water retention in heart failure: pathogenesis and treatment. Martin PY, et al. **Kidney Int Suppl** 1997 Jun;59:S57-61 (39 ref.)

Water household of the common carp, Cyprinus carpio, when submitted to an osmotic challenge, as determined by diffusion-weighted magnetic resonance imaging at 7 T. De Boeck G, et al. **MAGMA** 1997 Mar;5(1):13-9

Young Investigator Award presentation at the 13th annual meeting of the ESMRMB, September 1996, Prague. Quantification of pulmonary water compartments by magnetic resonance. Lehmann J, et al. **MAGMA** 1997 Mar; 5(1):3-11

In vivo noninvasive determination of abnormal water diffusion in the rat brain studied in an animal model for multiple sclerosis by diffusion-weighted NMR imaging. Verhoye MR, et al. **Magn Reson Imaging** 1996;14(5):521-32

In vivo observation of anisotropic motion of brain water using 2H double quantum filtered NMR spectroscopy. Assaf Y, et al. **Magn Reson Med** 1997 Feb;37(2):197-203

Changes in water diffusion due to Wallerian degeneration in peripheral nerve. Beaulieu C, et al. **Magn Reson Med** 1996 Oct;36(4):627-31

An in vitro evaluation of the effects of local magnetic-susceptibility-induced gradients on anisotropic water diffusion in nerve. Beaulieu C, et al. **Magn Reson Med** 1996 Jul;36(1):39-44

Direct observation of resolved intracellular and extracellular water signals in intact human red blood cells using 1H MAS NMR spectroscopy. Humpfer E, et al. **Magn Reson Med** 1997 Aug;38(2):334-6

Quantitative regional brain water measurement with magnetic resonance imaging in a focal ischemia model. Lin W, et al. **Magn Reson Med** 1997 Aug;38(2):303-10

Evidence for the exchange of arterial spin-labeled water with tissue water in rat brain from diffusion-sensitized measurements of perfusion. Silva AC, et al. **Magn Reson Med** 1997 Aug;38(2):232-7

Dynamic changes in water ADC, energy metabolism, extracellular space volume, and tortuosity in neonatal rat brain during global ischemia. van der Toorn A, et al. **Magn Reson Med** 1996 Jul;36(1):52-60

Reversible, reproducible reduction of brain water apparent diffusion coefficient by cortical electroshocks. Zhong J, et al. **Magn Reson Med** 1997 Jan;37(1):1-6

The isolated hind limb preparation as a drug distribution model. Casquero-Dorado AC, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):453-8

Some sodium, potassium and water changes in the elderly and their treatment. Andreucci VE, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:9-17 (113 ref.)

Dialysis fluid and water: their roles in biocompatibility. Berland Y, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:45-7 (32 ref.)

The adjustment of post-dialysis dry weight based on non-invasive measurements in children. Sönmez F, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1564-7

Pruritus and skin hydration during dialysis [letter] Yosipovitch G, et al. **Nephrol Dial Transplant** 1997 Aug; 12(8):1769-70

High resolution magnetic resonance imaging of the rat spinal cord. LeMay DR, et al. **Neurol Res** 1996 Oct;18(5):471-4

Elemental composition and water content of rat optic nerve myelinated axons during in vitro post-anoxia reoxygenation. Stys PK, et al. **Neuroscience** 1996 Aug; 73(4):1081-90

Response of severely malnourished patients to preoperative parenteral nutrition: a randomized clinical trial of water and sodium restriction [see comments] Gil MJ, et al. **Nutrition** 1997 Jan;13(1):26-31. Comment in: Nutrition 1997 Jan;13(1):54-5.

A new approach to estimate changes in total body water by bioelectrical impedance analysis [editorial; comment] Lukaski HC. **Nutrition** 1997 May;13(5):474-5. Comment on: Nutrition 1997 May;13(5):438-41.

Asymmetry of the total body water prediction bias using the impedance index [see comments] Piccoli A, et al. **Nutrition** 1997 May;13(5):438-41. Comment in: Nutrition 1997 May;13(5):474-5.

Hydration (water binding) of the mammalian corneal stroma ex vivo and vitro: sample mass and error considerations. Doughty MJ, et al. **Optom Vis Sci** 1996 Oct;73(10):666-75

In vivo measurement of chloride and water secretion in the jejunum of cystic fibrosis patients. Teune TM, et al. **Pediatr Res** 1996 Oct;40(4):522-7

Analysis of ultrafiltration failure in peritoneal dialysis patients by means of standard peritoneal permeability analysis. Ho-dac-Pannekeet MM, et al. **Perit Dial Int** 1997 Mar-Apr;17(2):144-50

EITS changes following oleic acid induced lung water. Brown BH, et al. **Physiol Meas** 1996 Nov;17 Suppl 4A:A117-30

Cotransport of water by the Na+/glucose cotransporter. Loo DD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13367-70

Multifrequency impedance in the assessment of body water losses during dialysis [comment] Ward LC, et al. **Ren Physiol Biochem** 1995 Sep-Oct;18(5):267-70. Comment on: Ren Physiol Biochem 1994 Nov-Dec;17(6):326-32.

Cells are not just bags of water: a personal appreciation of the work of Dr. Brij L. Gupta and his contribution to biological X-ray microanalysis. Warley A. **Scanning Microsc** 1995;9(4):1027-40 (114 ref.)

Abnormalities of water metabolism in the elderly. Ayus JC, et al. **Semin Nephrol** 1996 Jul;16(4):277-88 (105 ref.)

Severe transient hypoglycemia causes reversible change in the apparent diffusion coefficient of water. Hasegawa Y, et al. **Stroke** 1996 Sep;27(9):1648-55; discussion 1655-6

Neuroprotection with NBQX in rat focal cerebral ischemia. Effects on ADC probability distribution functions and diffusion-perfusion relationships. Lo EH, et al. **Stroke** 1997 Feb;28(2):439-46; discussion 446-7

Spreading of vasogenic edema and cytotoxic edema assessed by quantitative diffusion and T2 magnetic resonance imaging. Loubinoux I, et al. **Stroke** 1997 Feb;28(2):419-26; discussion 426-7

[In vitro effects of free fatty acids on water content and osmotic fragility of erythrocytes in rabbits] Kogawa H, et al. **C R Seances Soc Biol Fil** 1997;191(2):267-72 (Eng. Abstr.) **(Fre)**

[Pathological aspects of water transport in the collecting ducts] Bichet DG. **Nephrologie** 1996;17(7):417-22 (17 ref.) (Eng. Abstr.) **(Fre)**

[Ion transports across the respiratory epithelium] Charfi MR, et al. **Rev Pneumol Clin** 1997;53(2):71-8 (83 ref.) (Eng. Abstr.) **(Fre)**

[Intra-operative management during laparotomy for patients under hemodialysis] Horibe M, et al. **Masui** 1996 Sep; 45(9):1135-9 (Eng. Abstr.) **(Jpn)**

[Changes of magnetization transfer ratio according to rat brain development] Bai LS, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):955-60 (Eng. Abstr.) **(Jpn)**

[The effect of hypervolemia on electrolyte level and and level of volume regulating hormones in patients with autosomal dominant polycystic kidney disease] Michalski A, et al. **Pol Arch Med Wewn** 1996 Oct;96(4):329-43 (Eng. Abstr.) **(Pol)**

[Transport of water through biological membranes] Nałęcz KA. **Postepy Biochem** 1996;42(2):161-7 (73 ref.) **(Pol)**

[Aquaretic agents] Bosch-Marcé M, et al. **Gastroenterol Hepatol** 1996 Nov;19(9):472-7 (55 ref.) **(Spa)**

PHYSIOLOGY

Analysis of pre-ovulatory changes in cervical mucus hydration and sperm penetrability. Katz DF, et al. **Adv Contracept** 1997 Jun-Sep;13(2-3):143-51

The normal and pathological physiology of brain water. Go KG. **Adv Tech Stand Neurosurg** 1997;23:47-142 (364 ref.)

Impedance ratio as a measure of water shifts. De Lorenzo A, et al. **Ann Nutr Metab** 1997;41(1):22-8

Hydration assessment during cold-weather military field training exercises. O'Brien C, et al. **Arctic Med Res** 1996 Jan;55(1):20-6

Influence of the hydration state on blood pressure values in a group of patients on regular maintenance hemodialysis. Dionisio P, et al. **Blood Purif** 1997;15(1):25-33

Regional assessment of tissue oxygenation and the temporal evolution of hemodynamic parameters and water diffusion during acute focal ischemia in rat brain. Dijkhuizen RM, et al. **Brain Res** 1997 Mar 7;750(1-2):161-70

The distribution of normal brain water content in Wistar rats and its increase due to ischemia. Schwab M, et al. **Brain Res** 1997 Feb 21;749(1):82-7

Water channels and urea transporters. Wintour EM. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):1-9 (78 ref.)

Importance of volume factors in dialysis related hypertension. Lins RL, et al. **Clin Nephrol** 1997 Jul;48(1):29-33

Four-component model of body composition in chronic renal failure comprising dual-energy X-ray absorptiometry and measurement of total body water by deuterium oxide dilution. Woodrow G, et al. **Clin Sci (Colch)** 1996 Dec; 91(6):763-9

Intraluminal peptide YY induces colonic absorption in vivo. Liu CD, et al. **Dis Colon Rectum** 1997 Apr;40(4):478-82

The ambiguities of predicting total body water and body cell mass with a single frequency (50KHz) measurement of bioimpedance [letter] Matthie JR, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1682-5

Water transport and the distribution of aquaporin-1 in pulmonary air spaces. Effros RM, et al. **J Appl Physiol** 1997 Sep;83(3):1002-16

Water turnover and body composition during long-term exposure to high altitude (4,900-7,600 m). Fusch C, et al. **J Appl Physiol** 1996 Apr;80(4):1118-25

Effect of skin temperature on multifrequency bioelectrical impedance analysis. Gudivaka R, et al. **J Appl Physiol** 1996 Aug;81(2):838-45

Density of the fat-free mass and estimates of body composition in male weight trainers. Modlesky CM, et al. **J Appl Physiol** 1996 Jun;80(6):2085-96

Assessing total body and extracellular water from bioelectrical response spectroscopy. Siconolfi SF, et al. **J Appl Physiol** 1997 Feb;82(2):704-10

Fractional urea clearance in continuous ambulatory peritoneal dialysis: effects of volume disturbances. Tzamaloukas AH, et al. **Nephron** 1996;74(3):567-71

Diffusion tensor MR imaging of the human brain. Pierpaoli C, et al. **Radiology** 1996 Dec;201(3):637-48

Morphometric analysis of oleic acid-induced permeability pulmonary edema: correlation with gravimetric lung water. Darien BJ, et al. **Shock** 1997 Jul;8(1):61-7

Distribution of pulmonary blood flow and total lung water during partial liquid ventilation in acute lung injury. Gauger PG, et al. **Surgery** 1997 Aug;122(2):313-23

[Hard stools, soft stools. New point of view of fecal water: structural water and dilution water] Bernier JJ. **Gastroenterol Clin Biol** 1997;21(1):3-6 **(Fre)**

[The effect of rehydration on the elasticity modulus and strength of lyophilised and irradiated femur bone in the human] Grzegorczyn S, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):593-9 (Eng. Abstr.) **(Pol)**

[Dynamics of electrodermal activity during changes in the hydration of the epidermis: theoretical model] Makhnev VP. **Biofizika** 1997 Jan-Feb;42(1):201-8 (Eng. Abstr.) **(Rus)**

[Osmoregulatory function of the kidny under natural conditions: relationship between the index of osmotic concentration and reabsorption of osmotically free water] Kuznetsova AA, et al. **Fiziol Cheloveka** 1997 Mar-Apr; 23(2):115-23 **(Rus)**

SECRETION

The paracellular channel for water secretion in the upper segment of the Malpighian tubule of Rhodnius prolixus. Sofía Hernández C, et al. **J Membr Biol** 1995 Dec; 148(3):233-42

The synergistic purgative action of aloe-emodin anthrone and rhein anthrone in mice: synergism in large intestinal propulsion and water secretion. Yagi T, et al. **J Pharm Pharmacol** 1997 Jan;49(1):22-5

BODY WEIGHT

see related
OBESITY
THINNESS

Impedance cardiography in cardiac surgery patients: abnormal body weight gives unreliable cardiac output measurements. van der Meer BJ, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):708-12

Frequent diarrhoeas in early childhood have sustained effects on the height, weight and head circumference of children in East Bhutan. Bøhler E, et al. **Acta Paediatr** 1996 Jan; 85(1):26-30

Differences in height and weight between children living in neighbourhoods of different socioeconomic status. Jansen W, et al. **Acta Paediatr** 1997 Feb;86(2):224-5

Intrauterine growth curves based on ultrasonically estimated foetal weights. Maršál K, et al. **Acta Paediatr** 1996 Jul; 85(7):843-8

Maternal perception of children's weight in relation to eating disorders. Ohzeki T, et al. **Acta Psychiatr Scand** 1996 Oct; 94(4):279-80

Factors associated with weight change among clients of a residential weight control program indicating binge and nonbinge traits. DiGioacchino R, et al. **Addict Behav** 1997

May-Jun;22(3):293-303
The relationship of dieting to weight in adolescents. Emmons L. **Adolescence** 1996 Spring;31(121):167-78
Weight, height and body mass index distributions in geographically and ethnically diverse samples of older persons. Ad Hoc Committee on the Statistics of Anthropometry and Aging. Launer LJ, et al. **Age Ageing** 1996 Jul;25(4):300-6
Weight and height as screening measures for adults [letter] Beasley JW, et al. **Am Fam Physician** 1997 Sep 15; 56(4):1068
Obesity surgery as a model for understanding the regulation of food intake and body weight [editorial] Atkinson RL. **Am J Clin Nutr** 1997 Jul;66(1):184-5
Relation of changes in dietary lipids and weight, trial years 1-6, to changes in blood lipids in the special intervention and usual care groups in the Multiple Risk Factor Intervention Trial. Stamler J, et al. **Am J Clin Nutr** 1997 Jan;65(1 Suppl):272S-288S
Evidence for the incompatibility of age-neutral overweight and age-neutral physical activity standards from runners. Williams PT. **Am J Clin Nutr** 1997 May;65(5):1391-6
Weight-based protocol for improving heparin therapy. Nemeth JS, et al. **Am J Health Syst Pharm** 1996 May 15; 53(10):1164-6
Lifestyle modification: weight control, exercise, and smoking cessation. Winslow E, et al. **Am J Med** 1996 Oct 8; 101(4A):4A25S-31S; discussion 31S-33S
Standard weight for height curves in achondroplasia. Hunter AG, et al. **Am J Med Genet** 1996 Mar 29;62(3):255-61
The Preterm Prediction Study: association of cesarean delivery with increases in maternal weight and body mass index. Brost BC, et al. **Am J Obstet Gynecol** 1997 Aug; 177(2):333-7; discussion 337-41
Intrasexual competition and body weight dimorphism in anthropoid primates. Plavcan JM, et al. **Am J Phys Anthropol** 1997 May;103(1):37-68 (162 ref.)
Submaximal oxygen pulse divided by body weight during incremental exercise test. Hsi WL, et al. **Am J Phys Med Rehabil** 1997 Jul-Aug;76(4):297-303
Depletion of linoleate induced by weight cycling is independent of extent of calorie restriction. Chen ZY, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R43-50
Reduction of dietary obesity in aP2-Ucp transgenic mice: physiology and adipose tissue distribution. Kopecký J, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E768-75
Interactions between infant growth and survival: evidence for selection on age-specific body weight in captive common marmosets (Callithrix jacchus). Jaquish CE, et al. **Am J Primatol** 1997;42(4):269-80
Prediction of low body weight at long-term follow-up in acute anorexia nervosa by low body weight at referral. Hebebrand J, et al. **Am J Psychiatry** 1997 Apr;154(4):566-9
Seven-year trends in body weight and associations with lifestyle and behavioral characteristics in black and white young adults: the CARDIA study. Lewis CE, et al. **Am J Public Health** 1997 Apr;87(4):635-42
Body weight, fluid, electrolyte, and hormonal changes in horses competing in 50- and 100-mile endurance rides. Schott HC 2nd, et al. **Am J Vet Res** 1997 Mar;58(3):303-9
Analysis of parental estimates of children's weights in the ED. Leffler S, et al. **Ann Emerg Med** 1997 Aug; 30(2):167-70
Eleven-year tracking of established cardiovascular risk factors in Italian school-aged children. Angelico F, et al. **Ann Ig** 1997 May-Jun;9(3):193-200
Changes in weight during pregnancy and lactation in adolescents. Evaluation of a nonnutritional intervention. Casanueva E, et al. **Ann N Y Acad Sci** 1997 May 28; 817:353-5
Weight gain of rats consuming full-fat versus reduced-fat foods. Warwick ZS, et al. **Ann N Y Acad Sci** 1997 May 23;819:251-3
Body size and risk of pre- and post-menopausal breast cancer in Taiwan. Chie WC, et al. **Anticancer Res** 1996 Sep-Oct; 16(5B):3129-32
Ponderostat: hoarding behavior satisfies the condition for a lipostat in the rat. Cabanac M, et al. **Appetite** 1996 Dec; 27(3):251-61
Body weight and shape control: examining component behaviours. Conner M, et al. **Appetite** 1996 Oct; 27(2):135-50
Self-reported and measured overweight and weight-control practices of adolescents living in a Mediterranean city of Spain. Puig MS, et al. **Appetite** 1996 Jun;26(3):301
Height and weight achievement in cleft lip and palate [corrected and republished article originally printed in Arch Dis Child 1996 Oct;75(4):327-9] Lee J, et al. **Arch Dis Child** 1997 Jan;76(1):70-2
Height and weight achievement in cleft lip and palate [corrected and republished in Arch Dis Child 1997 Jan;76(1):70-2] Lee J, et al. **Arch Dis Child** 1996 Oct; 75(4):327-9
Cerebral gray matter volume deficits after weight recovery from anorexia nervosa. Lambe EK, et al. **Arch Gen Psychiatry** 1997 Jun;54(6):537-42
Kobe earthquake and patients with anorexia nervosa [letter] Inui A, et al. **Arch Intern Med** 1997 Feb 24;157(4):464-5
Growth of Hmong children. Gjerdingen DK, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1295-8
Resumption of menses in anorexia nervosa [see comments] Golden NH, et al. **Arch Pediatr Adolesc Med** 1997 Jan; 151(1):16-21. Comment in: Arch Pediatr Adolesc Med 1997 Jan;151(1):14-5. Comment in: Arch Pediatr Adolesc Med 1997 Jun;151(6):634-5.
Weight perception of adolescent dancing school students [letter; comment] Silverman JA. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1221. Comment on: Arch Pediatr Adolesc Med 1996 Feb;150(2):187-90.
Safe depths for teaching children to dive. Blanksby BA, et al. **Aust J Sci Med Sport** 1996 Sep;28(3):79-85
Bias in interpretation of ambiguous scenarios in eating disorders. Cooper M. **Behav Res Ther** 1997 Jul;35(7):619-26
Sex differences in weight in infancy. Published centile charts for weights have been updated [letter; comment] Preece MA, et al. **BMJ** 1996 Dec 7;313(7070):1486. Comment on: BMJ 1996 Aug 31;313(7056):513-4.
Body weight: implications for the prevention of coronary heart disease, stroke, and diabetes mellitus in a cohort study of middle aged men [see comments] Shaper AG, et al. **BMJ** 1997 May 3;314(7090):1311-7. Comment in: BMJ 1997 May 3;314(7090):1291-2.
Contour control, survival, and quality of life [editorial; comment] Tunstall-Pedoe H. **BMJ** 1997 May 3; 314(7090):1291-2. Comment on: BMJ 1997 May 3;314(7090):1311-7.
Sex differences in weight in infancy. Data from Sheffield support authors' findings [letter; comment] Wales JK, et al. **BMJ** 1996 Dec 7;313(7070):1486. Comment on: BMJ 1996 Aug 31;313(7056):513-4.
Feasibility of a PB CD34+ cell transplantation procedure using standard leukapheresis products in very small children. Berger M, et al. **Bone Marrow Transplant** 1997 Aug;20(3):191-8
Dental erosion as a consequence of voluntary regurgitation in a jockey: a case report. Bishop K, et al. **Br Dent J** 1996 Nov 9;181(9):343-5
Body weight and vascular invasion in post-menopausal women with breast cancer. Badwe RA, et al. **Br J Cancer** 1997;75(6):910-3
Social class and weight as prognostic factors in early breast cancer. Haybittle J, et al. **Br J Cancer** 1997;75(5):729-33
Body mass index and post-menopausal breast cancer: an age-specific analysis. La Vecchia C, et al. **Br J Cancer** 1997;75(3):441-4
Selective processing of three types of stimuli in eating disorders. Cooper M, et al. **Br J Clin Psychol** 1997 May; 36 (Pt 2):279-81
Reversible bone marrow depression by high-dose piperacillin/tazobactam. Ruiz-Irastorza G, et al. **Br J Haematol** 1996 Dec;95(4):611-2
Growth rate of different sexes of the European quail (Coturnix coturnix). Du Preez JJ, et al. **Br Poult Sci** 1997 Jul;38(3):314-5
Effects of male body weight, strain and dietary protein content on fertility and musculo-skeletal disease in naturally mated broiler breeder males. Hocking PM, et al. **Br Poult Sci** 1997 Mar;38(1):29-37
Predicted response in food conversion ratio for growth by selection on the ratio or on linear component traits, in a (sequential) selection programme. Koerhuis AN, et al. **Br Poult Sci** 1996 May;37(2):317-27
Automatic weighing of individual laying hens in aviary housing systems. Lokhorst C. **Br Poult Sci** 1996 Jul; 37(3):485-99
Body weights, carcase characteristics, organ weights, abdominal fat, and lipid content of liver and carcase in two lines of Japanese quail (Coturnix coturnix japonica), unselected and selected for four week body weight. Oğuz I, et al. **Br Poult Sci** 1996 Jul;37(3):579-88
Regional cerebral blood flow during food exposure in obese and normal-weight women. Karhunen LJ, et al. **Brain** 1997 Sep;120 (Pt 9):1675-84
Territorial aggression, body weight, carbohydrate metabolism and testosterone levels of wild rats maintained in laboratory colonies. Lucion AB, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1657-62
Weight and plyometric training: effects on eccentric and concentric force production. Wilson GJ, et al. **Can J Appl Physiol** 1996 Aug;21(4):301-15
Height, body weight, and risk of prostate cancer. Giovannucci E, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):557-63
Effects of fetus weight, dam strain, dam weight, and litter size on the craniofacial morphogenesis of CL/Fr mouse fetuses affected with cleft lip and palate. Nomura K, et al. **Cleft Palate Craniofac J** 1997 Jul;34(4):325-30
Effect of body weight and caloric restriction on serum complement proteins, including Factor D/adipsin: studies in anorexia nervosa and obesity. Pomeroy C, et al. **Clin Exp Immunol** 1997 Jun;108(3):507-15
A comparative analysis of weight to height and waist to hip circumference indices as indicators of the presence of cardiovascular disease risk factors. Canadian Heart Health Surveys Research Group. Ledoux M, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S32-8
Eating behaviour, weight status and depressive feelings in female adolescents. Vidović V, et al. **Coll Antropol** 1997 Jun;21(1):277-83
An evaluation of empiric vs. nomogram-based dosing of heparin in an intensive care unit [see comments] Brown G, et al. **Crit Care Med** 1997 Sep;25(9):1534-8. Comment in: Crit Care Med 1997 Sep;25(9):1451-2.
Weight-based heparin dosing: maybe it's just a matter of time [editorial; comment] Susla GM. **Crit Care Med** 1997 Sep; 25(9):1451-2. Comment on: Crit Care Med 1997 Sep;25(9):1534-8.
Leptin and OB-R: body weight regulation by a cytokine receptor. White DW, et al. **Cytokine Growth Factor Rev** 1996 Dec;7(4):303-9 (61 ref.)
Leptin: the tale of an obesity gene. Caro JF, et al. **Diabetes** 1996 Nov;45(11):1455-62 (61 ref.)
Relationship between weight change in young adulthood and the risk of NIDDM. The Sotetsu Study. Sakurai Y, et al. **Diabetes Care** 1997 Jun;20(6):978-82
Comparison of dietary assessment methods in a southern French population: use of weighed records, estimated-diet records and a food-frequency questionnaire. Bonifacj C, et al. **Eur J Clin Nutr** 1997 Apr;51(4):217-31
The diet and body weight of British teenage smokers at 16-17 years. Crawley HF, et al. **Eur J Clin Nutr** 1995 Dec; 49(12):904-14
A critique of the effects of snacking on body weight status. Drummond S, et al. **Eur J Clin Nutr** 1996 Dec; 50(12):779-83 (79 ref.)
Height and weight reference charts for children aged 2-18 years from Verona, Italy. Zoppi G, et al. **Eur J Clin Nutr** 1996 Jul;50(7):462-8
Leptin, leptin receptors and the control of body weight. Friedman JM. **Eur J Med Res** 1997 Jan;2(1):7-13 (46 ref.)
To eat well--but what about the weight curve? Huisgen R. **Eur J Med Res** 1997 Jan;2(1):3-4
Predictive value of conditional centile charts for weight and fundal height in pregnancy in detecting light for gestational age births. Thompson ML, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72(1):3-8
Revision and update of Tanner-Whitehouse clinical longitudinal charts for height and weight [letter] Tanner JM, et al. **Eur J Pediatr** 1997 Mar;156(3):248-9
Inheritance of weight in Rhipicephalus appendiculatus ticks (Acari:Ixodidae) in the laboratory. Madder M, et al. **Exp Appl Acarol** 1996 Nov;20(11):659-65
An impact of birth weight on postnatal body and organ growth capacity in infants under one year of age. Kelmanson IA. **Gen Diagn Pathol** 1996 May; 141(5-6):345-51
An accurate method for sonographic estimation of the weight of very preterm fetuses. Mielke G, et al. **Gynecol Obstet Invest** 1997;43(2):98-103
Lack of correlation between maternal body weight or weight gain and stillbirth in twin pregnancy. Rydhstroem H, et al. **Gynecol Obstet Invest** 1996;42(1):8-12
Relationship of clomiphene dose and patient weight to successful treatment. Dickey RP, et al. **Hum Reprod** 1997 Mar;12(3):449-53
Relationships between reduction in body weight and reduction in blood pressure and improvement of glucose and lipid metabolism induced by short-term calorie restriction in overweight hypertensive women. Adachi T, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S57-60
Non-linear law-like relationship between weight & height of infants & pre-school children. Sundaram KR, et al. **Indian J Med Res** 1996 Mar;103:159-64
Effectiveness of antenatal care on weight of infants attending underfive clinic. Aras RY, et al. **Indian J Public Health** 1996 Oct-Dec;40(4):101-5
The need to redefine neonatal period [letter] Katyayan S. **Indian Pediatr** 1996 Sep;33(9):786
Prediction of blood cyclosporine concentrations in haematological patients with multidrug resistance by means of total, lean and different adipose factors dosing body weight using Bayesian and non-linear least squares methods. Wu G, et al. **Int J Clin Pharmacol Res** 1996; 16(4-5):89-97
The relationship between perceived evaluation of weight and treatment outcome among individuals with binge eating disorder. Eldredge KL, et al. **Int J Eat Disord** 1997 Jul; 22(1):43-9
In defense of weight phobia as the central organizing motive in anorexia nervosa: historical and cultural arguments for a culture-sensitive psychological conception. Habermas T. **Int J Eat Disord** 1996 May;19(4):317-34 (73 ref.)
Body weight in acute anorexia nervosa and at follow-up assessed with percentiles for the body mass index: implications of a low body weight at referral. Hebebrand J, et al. **Int J Eat Disord** 1996 May;19(4):347-57
Eating disorders and weight concern among lesbians. Heffernan K. **Int J Eat Disord** 1996 Mar;19(2):127-38
Perfectionism in weight-concerned and -unconcerned women: an experimental approach. Pliner P, et al. **Int J Eat Disord** 1996 May;19(4):381-9
Ideal body size beliefs and weight concerns of fourth-grade children. Thompson SH, et al. **Int J Eat Disord** 1997 Apr; 21(3):279-84
Characteristics of interview refusers: women who decline to participate in interviews relating to eating. Wade T, et al. **Int J Eat Disord** 1997 Jul;22(1):95-9
Socioeconomic differentials in misclassification of height, weight and body mass index based on questionnaire data. Boström G, et al. **Int J Epidemiol** 1997 Aug;26(4):860-6
Regression to the mean [letter; comment] Conroy RM. **Int J Obes Relat Metab Disord** 1996 Dec;20(12):1133. Comment on: Int J Obes Relat Metab Disord 1996 Jan;20(1):7-14.
Body weight in children with Turner syndrome treated with

growth hormone. Corel LJ, et al.
Int J Obes Relat Metab Disord 1996 Oct;20(10):957–62
Weight variability and incident disease in older women: the Iowa Women's Health Study. French SA, et al.
Int J Obes Relat Metab Disord 1997 Mar;21(3):217–23
Influences of body weight, body composition, and substrate oxidation rate on resting postabsorptive glucose production and gluconeogenesis. Giusti V, et al.
Int J Obes Relat Metab Disord 1996 Sep;20(9):842–7
The relationship between weight and response to cholesterol-lowering diets in women. Hannah JS, et al.
Int J Obes Relat Metab Disord 1997 Jun;21(6):445–50
Beta 3-adrenergic-receptor allele distributions in children, adolescents and young adults with obesity, underweight or anorexia nervosa. Hinney A, et al.
Int J Obes Relat Metab Disord 1997 Mar;21(3):224–30
Effects of both a melatonin agonist and antagonist on seasonal changes in body mass and energy intake in the garden dormouse. Le Gouic S, et al.
Int J Obes Relat Metab Disord 1996 Jul;20(7):661–7
Differences in the association between smoking and relative body weight by level of education. Molarius A, et al.
Int J Obes Relat Metab Disord 1997 Mar;21(3):189–96
Recall of body weight and body size estimation in women enrolled in the breast cancer detection and demonstration project (BCDDP). Muñoz KA, et al.
Int J Obes Relat Metab Disord 1996 Sep;20(9):854–9
Prevalence of overweight and weight gain in relation to night work in a nurses' cohort. Niedhammer I, et al.
Int J Obes Relat Metab Disord 1996 Jul;20(7):625–33
Accuracy of 1-, 5- and 10-year body weight recall given in a standard questionnaire. Olivarius NF, et al.
Int J Obes Relat Metab Disord 1997 Jan;21(1):67–71
The effectiveness of long-term fibre supplementation on weight maintenance in weight-reduced women. Pasman WJ, et al. **Int J Obes Relat Metab Disord** 1997 Jul; 21(7):548–55
Overweight and obesity in adults aged 20–74 in southern Iran. Pishdad GR. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):963–5
Overweight and obesity in infants of mothers with long-term insulin-dependent diabetes or gestational diabetes. Plagemann A, et al. **Int J Obes Relat Metab Disord** 1997 Jun;21(6):451–6
No deterioration of glucose tolerance in weight cycling obese. Podar T, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):921–4
Body mass index variations by age and sex, and prevalence of overweight in Japanese adults. Yanai M, et al.
Int J Obes Relat Metab Disord 1997 Jun;21(6):484–8
Body weight changes and voluntary fluid intakes during training and competition sessions in team sports. Broad EM, et al. **Int J Sport Nutr** 1996 Sep;6(3):307–20
Weight, weight gain, activity, and major illnesses: the Nurses' Health Study. Colditz GA, et al. **Int J Sports Med** 1997 Jul;18 Suppl 3:S162–70
Sport-seasonal changes in body composition, growth, power and strength of adolescent wrestlers. Roemmich JN, et al.
Int J Sports Med 1996 Feb;17(2):92–9
The SENECA study: potentials and problems in assessing dietary changes over time. van Staveren WA, et al.
Int J Sports Med 1997 Jul;18 Suppl 3:S195–9
Limitations of growth charts derived from longitudinal studies: the Euro-Growth Study. van't Hof MA, et al.
Int J Sports Med 1997 Jul;18 Suppl 3:S204–7
The influence of weight on stroke volume determination by means of impedance cardiography in cardiac surgery patients. Woltjer HH, et al. **Intensive Care Med** 1996 Aug; 22(8):766–71
A 10-year longitudinal study of body weight, dieting, and eating disorder symptoms. Heatherton TF, et al.
J Abnorm Psychol 1997 Feb;106(1):117–25
How good are doctors at estimating children's weight? Greig A, et al. **J Accid Emerg Med** 1997 Mar;14(2):101–3
Adolescents' perceptions of relative weight and self-reported weight-loss activities: analysis of 1990 YRBS (Youth Risk behavior Survey) national data. Felts WM, et al.
J Adolesc Health 1996 Jan;18(1):20–6
A study of errors that can occur when weighing infants. Alsop-Shields L, et al. **J Adv Nurs** 1997 Mar;25(3):587–94
Brain hypometabolism of glucose in low-weight depressed patients and in anorectic patients: a consequence of starvation? Delvenne V, et al. **J Affect Disord** 1997 Jun; 44(1):69–77
Titrating methylphenidate in children with attention-deficit/hyperactivity disorder: is body mass predictive of clinical response? Rapport MD, et al.
J Am Acad Child Adolesc Psychiatry 1997 Apr;36(4):523–30
Influence of moderate daily wine consumption on body weight regulation and metabolism in healthy free-living males [see comments] Cordain L, et al.
J Am Coll Nutr 1997 Apr;16(2):134–9. Comment in: J Am Coll Nutr 1997 Apr;16(2):105–6.
Concern regarding bodyweight and energy balance in a group of female university students from Madrid: differences with respect to body mass index. Ortega RM, et al. **J Am Coll Nutr** 1997 Jun;16(3):244–51
Association of insulin-like growth factor-I with body composition, weight history, and past health behaviors in the very old: the Framingham Heart Study. Harris TB, et al. **J Am Geriatr Soc** 1997 Feb;45(2):133–9
Nevill's explanation of Kleiber's 0.75 mass exponent: an artifact of collinearity problems in least squares models? Batterham AM, et al. **J Appl Physiol** 1997 Feb;82(2):693–7
Effect of postmenopausal hormone therapy on body weight and waist and hip girths. Postmenopausal Estrogen–Progestin Interventions Study Investigators. Espeland MA, et al. **J Clin Endocrinol Metab** 1997 May; 82(5):1549–56
Body weight, body fat distribution, and hormonal replacement therapy in early postmenopausal women. Gambacciani M, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):414–7
Prediction of young adult blood pressure from childhood blood pressure, height, and weight. Cook NR, et al.
J Clin Epidemiol 1997 May;50(5):571–9
Phenotypic variation in seasonal adjustments of testis size, body weight, and food intake in deer mice: role of pineal function and ambient temperature. Ruf T, et al.
J Comp Physiol [B] 1997 Apr;167(3):185–92
Weight concerns influence the development of eating disorders: a 4-year prospective study. Killen JD, et al.
J Consult Clin Psychol 1996 Oct;64(5):936–40
Are weight concerns predictive of smoking cessation? A prospective analysis. Meyers AW, et al.
J Consult Clin Psychol 1997 Jun;65(3):448–52
Weight cycling, psychological health, and binge eating in obese women. Venditti EM, et al.
J Consult Clin Psychol 1996 Apr;64(2):400–5
Body weight, body condition score, and wither height of prepartum Holstein cows and birth weight and sex of calves by parity: a database and summary. Kertz AF, et al.
J Dairy Sci 1997 Mar;80(3):525–9
Body weight and response acquisition with delayed reinforcement. Lattal KA, et al. **J Exp Anal Behav** 1997 Jan;67(1):131–43
Hummingbird hovering performance in hyperoxic heliox: effects of body mass and sex. Chai P, et al. **J Exp Biol** 1996 Dec;199 (12):2745–55
Cellular proliferative capacity and life span in small and large dogs. Li Y, et al. **J Gerontol A Biol Sci Med Sci** 1996 Nov;51(6):B403–8
Transgenic mice overexpressing urokinase-type plasminogen activator in the brain exhibit reduced food consumption, body weight and size, and increased longevity. Miskin R, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):B118–24
Body size and prostate cancer: a 20-year follow-up study among 135006 Swedish construction workers. Andersson SO, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):385–9
Growth of trypanosomes in vivo, host body weight gains, and food consumption in zinc-deficient mice. Humphrey PA, et al. **J Natl Med Assoc** 1997 Jan;89(1):48–56
Weight-for-age and weight-for-height references for Hong Kong children from birth to 18 years. Leung SS, et al.
J Paediatr Child Health 1996 Apr;32(2):103–9
Gender differences in adolescent weight and shape-related beliefs and behaviour. Nowak M, et al.
J Paediatr Child Health 1996 Apr;32(2):148–52
Bilirubin levels and weight change in infants with early hospital discharge versus prolonged hospital stay. Sward-Comunelli S, et al. **J Perinatol** 1996 May-Jun;16(3 Pt 1):211–4
Development of a sociocultural measure of young women's experiences with body weight and shape. Delaney ME, et al. **J Pers Assess** 1997 Aug;69(1):63–80
Phosphate supplementation prevents a decrease of triiodothyronine and increases resting metabolic rate during low energy diet. Nazar K, et al. **J Physiol Pharmacol** 1996 Jun;47(2):373–83
Food- and weight-related attitudes in obese persons: a longitudinal study over two years following biliopancreatic diversion. Adami G, et al. **J Psychosom Res** 1996 Jul; 41(1):31–8
Emotions and cognitions associated with bingeing and weight control behavior in bulimia. Powell AL, et al.
J Psychosom Res 1996 Mar;40(3):317–28
Why do adolescent girls watch their weight? An interview study examining sociocultural pressures to be thin. Wertheim EH, et al. **J Psychosom Res** 1997 Apr; 42(4):345–55
Perceived weight of other persons. Rudin JP.
J Soc Psychol 1996 Dec;136(6):719–26
The effects of race, weight, and gender on evaluations of writing competence. Surmann AT. **J Soc Psychol** 1997 Apr; 137(2):173–80
Height, weight, and body mass index (BMI) of Vietnamese (Hanoi) schoolchildren aged 7–11 years related to parents' occupation and education. Aurelius G, et al.
J Trop Pediatr 1996 Feb;42(1):21–6
Child growth during weaning depends on whether mother is pregnant again. Bøhler E, et al. **J Trop Pediatr** 1996 Apr;42(2):104–9
New formula for estimating fetal weight below 1000 g: comparison with existing formulas. Scott F, et al.
J Ultrasound Med 1996 Oct;15(10):669–72
Relation between daily urinary creatinine and body weight in castrated male Landrace pigs. Deguchi E.
J Vet Med Sci 1997 Jun;59(6):477–8
Effects of exposure to hypobaric-hypoxia on body weight, muscular and hematological characteristics, and work performance in rats. Tanaka M, et al. **Jpn J Physiol** 1997 Feb;47(1):51–7
Living on chronic hemodialysis between dryness and fluid overload. Franz M, et al. **Kidney Int Suppl** 1997 Jun; 59:S39–42 (35 ref.)
3-in-1 weight-monitoring chart. Cole TJ. **Lancet** 1997 Jan 11;349(9045):102–3
Who comes to be weighed: an exception to the inverse care law [letter] Wright CM. **Lancet** 1997 Aug 30;350(9078):642
Acoustic parameters in speaker height and weight identification: sex-specific behaviour. van Dommelen WA, et al. **Lang Speech** 1995 Jul-Sep;38 (Pt 3):267–87
Fetal renal growth evaluated by prenatal ultrasound examination. Gloor JM, et al. **Mayo Clin Proc** 1997 Feb; 72(2):124–9
An association between spin-lattice relaxation time and organ weight in humans. Akber SF. **Med Hypotheses** 1997 Feb; 48(2):189–91
Validity of bioelectrical impedence equations for estimating fat-free weight in high school female gymnasts. Eckerson JM, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):962–8
Age, fat-free weight, and isokinetic peak torque in high school female gymnasts. Housh TJ, et al.
Med Sci Sports Exerc 1996 May;28(5):610–3
Multivariate allometric scaling of men's world indoor rowing championship performance. Vanderburgh PM, et al.
Med Sci Sports Exerc 1996 May;28(5):626–30
Energy requirement for long-term body weight maintenance in older women. Campbell WW, et al. **Metabolism** 1997 Aug;46(8):884–9
Validity of percent body fat predicted from circumferences: classification of men for weight control regulations [see comments] Friedl KE, et al. **Mil Med** 1997 Mar; 162(3):194–200. Comment in: Mil Med 1997 Jun;162(6):ii.
Reduction of food intake and weight gain by the ob protein requires a specific secondary structure and is reversible. Giese K, et al. **Mol Med** 1996 Jan;2(1):50–8
Palaeoanthropology. They might be giants [news; comment] Kappelman J. **Nature** 1997 May 8;387(6629):126–7. Comment on: Nature 1997 May 8;387(6629):173–6.
Body mass and encephalization in Pleistocene Homo [see comments] Ruff CB, et al. **Nature** 1997 May 8; 387(6629):173–6. Comment in: Nature 1997 May 8;387(6629):126–7.
Clinical assessment of dry weight. Charra B, et al.
Nephrol Dial Transplant 1996;11 Suppl 2:16–9 (24 ref.)
Multifrequency bioimpedance in assessment of dry weight in haemodialysis. Katzarski K, et al.
Nephrol Dial Transplant 1996;11 Suppl 2:20–3
Vena cava diameter measurement for estimation of dry weight in haemodialysis patients. Mandelbaum A, et al.
Nephrol Dial Transplant 1996;11 Suppl 2:24–7
The adjustment of post-dialysis dry weight based on non-invasive measurements in children. Sönmez F, et al.
Nephrol Dial Transplant 1996 Aug;11(8):1564–7
Assessment of dry weight in haemodialysis patients by the volume markers ANP and cGMP. Wolfram G, et al.
Nephrol Dial Transplant 1996;11 Suppl 2:28–30 (13 ref.)
Transmission scanning for attenuation correction of myocardial 201Tl images in obese patients. Prvulovich EM, et al. **Nucl Med Commun** 1997 Mar;18(3):207–18
Sex, age, height, and weight as predictors of selected physiologic outcomes. Brown JK, et al. **Nurs Res** 1997 Mar-Apr;46(2):101–4
Anthropometric measures and risk of cancers of the upper digestive and respiratory tract. D'Avanzo B, et al.
Nutr Cancer 1996;26(2):219–27
Why do we weigh infants and children? Morley D.
Nutr Health 1996;11(2):105–8
Enhancing taste, texture, appearance, and presentation of pureed food improved resident quality of life and weight status. Cassens D, et al. **Nutr Rev** 1996 Jan;54(1 Pt 2):S51–4
The effects of dairy products on body composition, bone mineralization, and weight in adolescent girls (Nutr Rev 1996;54:64–65) [letter; comment] Kerstetter J, et al.
Nutr Rev 1996 Feb;54(2 Pt 1):66. Comment on: Nutr Rev 1996 Feb;54(2 Pt 1):64–5.
The effects of dairy products on body composition, bone mineralization, and weight in adolescent girls [see comments] Solomons NW. **Nutr Rev** 1996 Feb;54(2 Pt 1):64–5. Comment in: Nutr Rev 1996 Feb;54(2 Pt 1):66.
Healthy body weight standards [editorial] Abernathy RP, et al. **Nutrition** 1997 May;13(5):480–2 (21 ref.)
The right weight: body fat, menarche, and fertility [editorial] Frisch RE. **Nutrition** 1996 Jun;12(6):452–3
Dietary supplementation at home improves the regain of lean body mass after surgery [see comments] Jensen MB, et al. **Nutrition** 1997 May;13(5):422–30. Comment in: Nutrition 1997 May;13(5):475–6.
Effect of weight on cardiovascular disease [editorial] Kannel WB. **Nutrition** 1997 Feb;13(2):157–8
Effect of home supplementation on lean body mass after surgery [editorial; comment] Walters ER, et al.
Nutrition 1997 May;13(5):475–6. Comment on: Nutrition 1997 May;13(5):422–30.
Amino acids, protein, and body weight [comment] Bray GA.
Obes Res 1997 Jul;5(4):373–6. Comment on: Obes Res 1997 Jul;5(4):377–80. Comment on: Obes Res 1997 Jul;5(4):381–4.
The wine merchant as weight watcher. Rössner S.
Obes Res 1996 Nov;4(6):577–8
Weight loss during 12 week's ad libitum carbohydrate-rich diet in overweight and normal-weight subjects at a Danish work site. Siggaard R, et al. **Obes Res** 1996 Jul;4(4):347–56
Effect of high sucrose feeding on fat accumulation in the

male Wistar rat. Toida S, et al. **Obes Res** 1996 Nov; 4(6):561–8

Weight control in women: a challenge to the obstetrician–gynecologist. O'Brien WF. **Obstet Gynecol** 1996 Nov;88(5):888–90

Height and weight in children with vesicoureteric reflux and renal scarring. Polito C, et al. **Pediatr Nephrol** 1996 Oct; 10(5):564–7

Adjustment of bronchoalveolar lavage volume to body weight in children [see comments] Ratjen F, et al. **Pediatr Pulmonol** 1996 Mar;21(3):184–8. Comment in: Pediatr Pulmonol 1996 Nov;22(5):329–31.

Secular increases in relative weight and adiposity among children over two decades: the Bogalusa Heart Study. Freedman DS, et al. **Pediatrics** 1997 Mar;99(3):420–6

A new visual image rating scale for females: correlations with measures of relative fatness, weight dissatisfaction, and body–esteem. Goldberg JP, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1075–84

Diameter of the inferior vena cava as an index of dry weight in patients undergoing CAPD. Sakurai T, et al. **Perit Dial Int** 1996 Mar–Apr;16(2):183–5

The ratio of amount of haemoglobin to total surface area of erythrocytes in birds in relation to body mass, age of nestlings, and season of the year. Kostelecka–Myrcha A. **Physiol Zool** 1997 May–Jun;70(3):278–82

Effect of the genetic selection of turkeys for increased body weight and egg production on immune and physiological responses. Bayyari GR, et al. **Poult Sci** 1997 Feb; 76(2):289–96

Influence of male broiler breeder dietary energy intake on reproduction and progeny growth. Bramwell RK, et al. **Poult Sci** 1996 Jun;75(6):767–75

Evaluation of logistic versus linear regression models for predicting pulmonary hypertension syndrome (ascites) using cold exposure or pulmonary artery clamp models in broilers. Kirby YK, et al. **Poult Sci** 1997 Feb;76(2):392–9

Refinements in managing maternal weight adjustment for interpreting prenatal screening results. Neveux LM, et al. **Prenat Diagn** 1996 Dec;16(12):1115–9

Body weight and risk of nonfatal acute myocardial infarction among women: a case–control study from northern Italy. Tavani A, et al. **Prev Med** 1997 Jul–Aug;26(4):550–5

Pleiotropic effects of a disrupted K+ channel gene: reduced body weight, impaired motor skill and muscle contraction, but no seizures. Ho CS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1533–8

Carbohydrate balance and body–weight regulation. Flatt JP. **Proc Nutr Soc** 1996 Mar;55(1B):449–65 (62 ref.)

Meat avoidance and body weight concerns: nutritional implications for teenage girls. Ryan YM. **Proc Nutr Soc** 1997 Mar;56(1B):519–24 (19 ref.)

Wasting illness as a disorder of body weight regulation. Schwartz MW, et al. **Proc Nutr Soc** 1997 Jul;56(2):785–91 (45 ref.)

On sin, symptom substitution, and simplicity: a response to "preventing relapse in weight control" [comment] Baker RC. **Psychol Rep** 1996 Apr;78(2):680–2. Comment on: Psychol Rep 1995 Oct;77(2):651–6.

The compensatory model in weight control: relapse prevention revisited. Turner LW, et al. **Psychol Rep** 1996 Aug;79(1):105–6

Eating and weight controlling behaviours of young ballet dancers. Abraham S. **Psychopathology** 1996;29(4):218–22

Influence of body size on lithium levels in rats. Levine S, et al. **Psychopharmacology (Berl)** 1997 Jan;129(1):23–6

Kidney ATPase response in seawater–transferred rainbow trout (Oncorhynchus mykiss). Effect of salinity and fish size. Fuentes J, et al. **Rev Esp Fisiol** 1996 Dec;52(4):231–8

An analysis of DTP–associated reactions by manufacturer, batch, vaccinator, series number and infant weight. Benadé JG. **S Afr Med J** 1996 Oct;86(10):1288–90

Change in fat–free mass assessed by bioelectrical impedance, total body potassium and dual energy X–ray absorptiometry during prolonged weight loss. Hendel HW, et al. **Scand J Clin Lab Invest** 1996 Dec;56(8):671–9

Changes in physical characteristics and body composition during 5–year follow–up in 75– and 80–year–old men and women. Suominen H. **Scand J Soc Med Suppl** 1997; 53:19–24

Metabolic rates [letter; comment] Peterson CC. **Science** 1997 Jun 13;276(5319):1633. Comment on: Science 1997 Apr 4;276(5309):34.

Height and weight as a reflection of the nutritional situation of school–aged children working and living in the streets of Jakarta. Gross R, et al. **Soc Sci Med** 1996 Aug; 43(4):453–8

Body weight–tumor incidence correlations in long–term rodent carcinogenicity studies. Haseman JK, et al. **Toxicol Pathol** 1997 May–Jun;25(3):256–63

Plateletpheresis in 90– to 110–pound donors using the CS–3000 blood cell separator. Buchholz DH, et al. **Transfusion** 1997 Jul;37(7):715–8

Should excessive height and weight differences between the kidney donor and recipient be avoided? Cho YW, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):104–5

Immunologic and patient selection strategies for successful utilization of less than 15 kg pediatric donor kidneys—long term experiences with 40 transplants. Bretan PN Jr, et al. **Transplantation** 1997 Jan 27;63(2):233–7

Incorporating sonographic cheek–to–cheek diameter, biparietal diameter and abdominal circumference improves weight estimation in the macrosomic fetus. Abramowicz JS, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):409–13

Estimation of the weight and body condition of ostriches (Struthio camelus) from body measurements. Deeming DC, et al. **Vet Rec** 1996 Aug 31;139(9):210–3

Autologous blood donation for elective surgery in children weighing 8–25 kg. Mayer MN, et al. **Vox Sang** 1996; 70(4):224–8

Secular changes of body height and mass in the children and adolescents of Lódź. Stolarczyk H, et al. **Z Morphol Anthropol** 1996 Sep;81(2):167–77

[The influence of dietary factors on weight change estimated by the use of multivariate graphical models] Jørgensen LM, et al. **Ugeskr Laeger** 1997 Mar 3;159(10):1443–7 (Eng. Abstr.) **(Dan)**

[Correlation between physical development and dentition based on the Jena Longitudinal Study] Kromeyer K, et al. **Anthropol Anz** 1996 Sep;54(3):255–66 (Eng. Abstr.) **(Ger)**

[Effect of dietary measures on body weight and height of children with phenylketonuria in East Germany] Bührdel P, et al. **Klin Padiatr** 1997 Jan–Feb;209(1):26–9 (Eng. Abstr.) **(Ger)**

[Eating behavior, diabetes and weight control in girls with insulin–dependent diabetes mellitus (type 1)] Nuoffer JM, et al. **Schweiz Med Wochenschr** 1996 Sep 14;126(37):1560–5 (Eng. Abstr.) **(Ger)**

[Long–term effects of nutrition with fat–reduced foods on energy consumption and body weight] Seppelt B, et al. **Z Ernahrungswiss** 1996 Dec;35(4):369–77 (Eng. Abstr.) **(Ger)**

[Effect of changed conditions on body height and body weight of preschool children in Jena] Kromeyer K, et al. **Z Morphol Anthropol** 1995 Dec;81(1):91–100 (Eng. Abstr.) **(Ger)**

[Obesity, overweight and physical activity in elementary school children] Bordin D, et al. **Minerva Pediatr** 1995 Dec; 47(12):521–6 (Eng. Abstr.) **(Ita)**

[Hydrostatic weighing, skinfold thickness, body mass index relationships in high school girls] Tahara Y, et al. **Nippon Koshu Eisei Zasshi** 1995 Dec;42(12):1061–8 (Eng. Abstr.) **(Jpn)**

[Morphometric characteristics of the brain of 2–month–old rats depending upon the body weight at 1 month of age] Ryzhavskiĭ BIa. **Biull Eksp Biol Med** 1997 Jul;124(7):115–7 **(Rus)**

[Age–related changes in the weight of the body and of the extremity muscles in boys 7 to 17 years old] Tambovtseva RV. **Morfologiia** 1995;108(3):45–8 (Eng. Abstr.) **(Rus)**

[Correlation of histopathologic findings with ultrasonography variables of the endometrium according to body weight and adipose tissue distribution in postmenopause] Carranza–Lira S, et al. **Ginecol Obstet Mex** 1996 Nov;64:517–21 (Eng. Abstr.) **(Spa)**

[An anthropometric equation for the determination of the percentage of body fat in young men from the Canarian population] López Calbet JA, et al. **Med Clin (Barc)** 1997 Feb 15;108(6):207–13 (Eng. Abstr.) **(Spa)**

[Validity of self–notified measures of weight and height in the estimation of obesity prevalence (letter; comment)] Ramalle–Gómara E, et al. **Med Clin (Barc)** 1997 May 10; 108(18):716. Comment on: Med Clin (Barc) 1996 May 18;106(19):725–9. **(Spa)**

[Influence of body weight in pregnancy and the perinatal results] Robinovich J T, et al. **Rev Chil Obstet Ginecol** 1995;60(3):151–67 (Eng. Abstr.) **(Spa)**

[Underestimation of energy intake in a group of young female university students of Madrid] Ortega Anta RM, et al. **Rev Clin Esp** 1997 Aug;197(8):545–9 (Eng. Abstr.) **(Spa)**

[New height and weight standards for the middle aged and aged. Weight increases more than height] Björkelund C, et al. **Lakartidningen** 1997 Jan 29;94(5):332–5 (Eng. Abstr.) **(Swe)**

[New reference values for child development. Body height has increased 1–2 cm, body weight 1–2 kg] Lindgren G, et al. **Lakartidningen** 1997 Aug 27;94(35):2915–8 **(Swe)**

DRUG EFFECTS

Complex study of the physiological role of cadmium. IV. Effects of prolonged dietary exposure of broiler chickens to cadmium. Bokori J, et al. **Acta Vet Hung** 1996; 44(1):57–74

Computerized tomography assessment of women with weight changes associated with adjuvant treatment for breast cancer. Cheney CL, et al. **Am J Clin Nutr** 1997 Jul; 66(1):141–6

Growth and growth hormone therapy in children with achondroplasia: a two–year experience. Stamoyannou L, et al. **Am J Med Genet** 1997 Oct 3;72(1):71–6

The effect of nonsteroidal antiinflammatory drugs on electrolyte homeostasis and blood pressure in young and elderly persons with and without renal insufficiency. Murray MD, et al. **Am J Med Sci** 1997 Aug;314(2):80–8

Attenuation of leptin–mediated effects by monosodium glutamate–induced arcuate nucleus damage. Dawson R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E202–6

Leptin inhibits prehibernation hyperphagia and reduces body weight in arctic ground squirrels. Ormseth OA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1775–9

Low–dose recombinant human growth hormone increases body weight and lean body mass in patients with short bowel syndrome. Ellegård L, et al. **Ann Surg** 1997 Jan; 225(1):88–96

The individual and combined effects of the Fusarium mycotoxins moniliformin and fumonisin B1 in turkeys. Bermudez AJ, et al. **Avian Dis** 1997 Apr–Jun;41(2):304–11

Are neurovegetative symptoms stable in relapsing or recurrent atypical depressive episodes? Nierenberg AA, et al. **Biol Psychiatry** 1996 Oct 15;40(8):691–6

Antisense oligodeoxynucleotides against the MOR–1 clone alter weight and ingestive responses in rats. Leventhal L, et al. **Brain Res** 1996 May 6;719(1–2):78–84

Effects of tris(4–chlorophenyl)methanol on the rat following short–term oral exposure. Poon R, et al. **Chemosphere** 1997 Jan;34(1):1–12

Improving effect of carteolol on bodyweight and carbohydrate and lipid metabolic responses in the OLETF rat. Saitoh Y, et al. **Clin Exp Pharmacol Physiol** 1997 May; 24(5):321–5

Mechanical responses of chromium–deficient developing rat heart. Penefsky ZJ, et al. **Comp Biochem Physiol A Physiol** 1996 Jun;114(2):175–87

Maternal testosterone in the avian egg enhances postnatal growth. Schwabl H. **Comp Biochem Physiol A Physiol** 1996 Jul;114(3):271–6

Glucocorticoids as counterregulatory hormones of leptin: toward an understanding of leptin resistance. Zakrzewska KE, et al. **Diabetes** 1997 Apr;46(4):717–9

Bodyweight change as an adverse effect of drug treatment. Mechanisms and management. Pijl H, et al. **Drug Saf** 1996 May;14(5):329–42 (136 ref.)

Chronic inhalation exposure of rats to nitromethane. Griffin TB, et al. **Ecotoxicol Environ Saf** 1996 Jul;34(2):109–17

Effect of mazindol on body weight and insulin sensitivity in severely obese patients after a very–low–calorie diet therapy. Nishikawa T, et al. **Endocr J** 1996 Dec;43(6):671–7

Melanin–concentrating hormone acutely stimulates feeding, but chronic administration has no effect on body weight. Rossi M, et al. **Endocrinology** 1997 Jan;138(1):351–5

Antidepressant–like effects of 1–aminocyclopropanecarboxylic acid and D–cycloserine in an animal model of depression. Papp M, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):145–51

Effect of chronic naloxone and morphine treatments on testicular, body weight, and plumage pigmentation cycle of lal munia, Estrilda amandava. Lal P, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):2–11

Intraventricular leptin reduces food intake and body weight of lean rats but not obese Zucker rats. Seeley RJ, et al. **Horm Metab Res** 1996 Dec;28(12):664–8

Phasic craving for carbohydrate observed with citalopram. Bouwer CD, et al. **Int Clin Psychopharmacol** 1996 Dec; 11(4):273–8

Growth deficits in ADHD children revisited: evidence for disorder–associated growth delays? Spencer TJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1460–9

Ardacin for steers grazing endophyte–free fescue pasture: effects on live weight gain, forage intake, nitrogen and fiber digestion, ruminal fluid kinetics, ruminal fermentation, and serum hormones and metabolites. Judkins MB, et al. **J Anim Sci** 1997 Apr;75(4):1100–11

A randomized, placebo–controlled trial of combined insulin–like growth factor I and low dose growth hormone therapy for wasting associated with human immunodeficiency virus infection [published erratum appears in J Clin Endocrinol Metab 1996 Oct;81(10):3696] Lee PD, et al. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2968–75

Interactive effects of depression symptoms, nicotine dependence, and weight change on late smoking relapse. Killen JD, et al. **J Consult Clin Psychol** 1996 Oct; 64(5):1060–7

Sublethal effects of hexavalent chromium on the body growth rate and liver function enzymes of phenobarbitone–pretreated and promethazine–pretreated rabbits. Anjum F, et al. **J Environ Pathol Toxicol Oncol** 1997;16(1):51–9

Effects of long–term corticosterone implants on growth and immune function in juvenile alligators, Alligator mississippiensis. Morici LA, et al. **J Exp Zool** 1997 Oct 1;279(2):156–62

Prenatal exposure to sodium bromide affects the postnatal growth and brain development. Disse M, et al. **J Hirnforsch** 1996;37(1):127–34

Low plasma glutamine in combination with high glutamate levels indicate risk for loss of body cell mass in healthy individuals: the effect of N–acetyl–cysteine. Kinscherf R, et al. **J Mol Med** 1996 Jul;74(7):393–400

Effect of gonadotrophin and sex steroid on the scotoresponses of day old chicks of Japanese quail, Coturnix coturnix japonica. Phillips D, et al. **Life Sci** 1997;61(15):1487–95

Altered growth hormone (GH) secretion in women gaining weight during hormone replacement therapy (HRT). Hartmann BW, et al. **Maturitas** 1996 Aug;25(1):29–34

A glucose–rich diet shortens longevity of mice. Mlekusch W, et al. **Mech Ageing Dev** 1996 Nov 29;92(1):43–51

Dehydroepiandrosterone in morbidly obese adolescents: effects on weight, body composition, lipids, and insulin resistance. Vogiatzi MG, et al. **Metabolism** 1996 Aug; 45(8):1011–5

Daily insulin treatment relieves long–term hyperalgesia in streptozocin diabetic rats. Courteix C, et al. **Neuroreport**

1996 Aug 12;7(12):1922–4

Melanin–concentrating hormone is a potent anorectic peptide regulated by food–deprivation and glucopenia in the rat. Presse F, et al. **Neuroscience** 1996 Apr;71(3):735–45

Effects of alcohol on energy metabolism and body weight regulation: is alcohol a risk factor for obesity? Suter PM, et al. **Nutr Rev** 1997 May;55(5):157–71 (179 ref.)

The effect of adrenocorticotrophic hormone on water intake in mice. Blair–West JR, et al. **Physiol Behav** 1996 Oct; 60(4):1053–6

Effect of sustained estradiol release in the intact male rat: correlation of estradiol serum levels with actions on body weight, serum testosterone, and peripheral androgen–dependent tissues. Brewster ME, et al. **Physiol Behav** 1997 Feb;61(2):225–9

Anorexia induced by chronic central administration of cytokines at estimated pathophysiological concentrations. Plata–Salamán CR, et al. **Physiol Behav** 1996 Sep; 60(3):867–75

Devazepide increases food intake in male but not female Zucker rats. Strohmayer AJ, et al. **Physiol Behav** 1996 Jul; 60(1):273–5

ICV beta–hydroxybutyrate: effects on food intake, body composition, and body weight in rats. Sun M, et al. **Physiol Behav** 1997 Mar;61(3):433–6

Comparison of changes in blood pressure and dipsogenic responsiveness to angiotensin II in male and female rats chronically exposed to cold. Sun Z, et al. **Physiol Behav** 1996 Dec;60(6):1543–9

The suppressive effects of testosterone on growth in young chickens appears to be mediated via a peripheral androgen receptor; studies of the anti–androgen ICI 176,334. Fennell MJ, et al. **Poult Sci** 1996 Jun;75(6):763–6

Effects of feed antibiotic avoparcine on organ morphology in broiler chickens. Krinke AL, et al. **Poult Sci** 1996 Jun; 75(6):705–10

Individual and combined effects of fumonisin B1 present in Fusarium moniliforme culture material and diacetoxyscirpenol or ochratoxin A in turkey poults. Kubena LF, et al. **Poult Sci** 1997 Feb;76(2):256–64

Individual and combined effects of moniliformin present in Fusarium fujikuroi culture material and aflatoxin in broiler chicks. Kubena LF, et al. **Poult Sci** 1997 Feb;76(2):265–70

Effects of added dietary lard on body weight and serum glucose and low density lipoprotein cholesterol in randombred broiler chickens. Peebles FD, et al. **Poult Sci** 1997 Jan;76(1):29–36

The effects of supplemental microbial phytase on the performance and utilization of dietary calcium, phosphorus, copper, and zinc in broiler chickens fed corn–soybean diets. Sebastian S, et al. **Poult Sci** 1996 Jun;75(6):729–36

Effect of feeding diets containing an antibiotic, a probiotic, or yucca extract on growth and intestinal urease activity in broiler chicks. Yeo J, et al. **Poult Sci** 1997 Feb; 76(2):381–5

Effect of ascorbic acid and cooling during egg incubation on hatchability, culling, mortality, and the body weights of broiler chickens. Zakaria AH, et al. **Poult Sci** 1996 Oct; 75(10):1204–9

Enhanced methionine levels and increased nutritive value of seeds of transgenic lupins (Lupinus angustifolius L.) expressing a sunflower seed albumin gene. Molvig L, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8393–8

Co–administration of IGF–binding protein–3 differentially inhibits the IGF–I–induced total body and organ growth of Snell dwarf mice. van Buul–Offers S, et al. **Prog Growth Factor Res** 1995;6(2–4):377–83

2–buten 4 olide affects feeding behavior of rhesus monkey. Mathur R, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):167–76

Effect of L364.718 during suckling on the sensitivity to the hypophagic effect of cholecystokinin in adult rats. Voits M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Jan;21(1):183–92

The rodent uterotrophic assay: critical protocol features, studies with nonyl phenols, and comparison with a yeast estrogenicity assay. Odum J, et al. **Regul Toxicol Pharmacol** 1997 Apr;25(2):176–88

Effects of subchronic exposure of monochloramine in drinking water on male rats. Poon R, et al. **Regul Toxicol Pharmacol** 1997 Apr;25(2):166–75

Changes in body weight with chronic, high–dose gabapentin therapy. DeToledo JC, et al. **Ther Drug Monit** 1997 Aug; 19(4):394–6

Neurophysiological and neuropathological evaluation of primates exposed to ethylene oxide and propylene oxide. Setzer JV, et al. **Toxicol Ind Health** 1996 Sep–Oct; 12(5):667–82

[Weight gain and clozapine] Jalenques I, et al. **Encephale** 1996 Oct;22 Spec No 3:77–9 **(Fre)**

[Postmenopausal hormone substitution and its effects on the climacteric syndrome, body weight and blood pressure] Fritsch H, et al. **Zentralbl Gynakol** 1997;119(3):128–32 (Eng. Abstr.) **(Ger)**

ETHNOLOGY

Overweight and obesity in Native–American adolescents: comparing nonreservation youths with African–American and Caucasian peers [letter] Garb JL, et al. **Am J Prev Med** 1996 Jul–Aug;12(4):223–4

GENETICS

An examination of the relationship between foot length, foot breath, ball girth, height and weight of Turkish university students aged between 17 and 25. Anil A, et al. **Anthropol Anz** 1997 Mar;55(1):79–87

Long–bone biomechanics in mice selected for body conformation. Di Masso RJ, et al. **Bone** 1997 Jun; 20(6):539–45

Low affinity nerve growth factor receptor gene co–segregates with decreased bodyweight and increased left ventricular weight in spontaneously hypertensive rats. Kapuscinski MK, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):614–6

Zfx mutation results in small animal size and reduced germ cell number in male and female mice. Luoh SW, et al. **Development** 1997 Jun;124(11):2275–84

The effects of a duplication in the ovine growth hormone (GH) gene on GH expression in the pituitaries of ram lambs from lean and fat–selected sheep lines. Fleming JS, et al. **Domest Anim Endocrinol** 1997 Jan;14(1):17–24

Quantitative genetics of transgenic mice: components of phenotypic variation in body weights and weight gains. Clutter AC, et al. **Genetics** 1996 Aug;143(4):1753–60

Genetic influences on central abdominal fat: a twin study. Carey DG, et al. **Int J Obes Relat Metab Disord** 1996 Aug; 20(8):722–6

Genetic (co)variances among birth weight, 200–day weight, and postweaning gain in composites and parental breeds of beef cattle. Bennett GL, et al. **J Anim Sci** 1996 Nov; 74(11):2598–611

Genetic and environmental parameters for ovulation rate, twinning rate, and weight traits in a cattle population selected for twinning. Gregory KE, et al. **J Anim Sci** 1997 May;75(5):1213–22

Influence of partitioning data by sex on genetic variance and covariance components for weaning weight in beef cattle. Lee C, et al. **J Anim Sci** 1997 Jan;75(1):61–7

Relationship between sire x year interactions and direct–maternal genetic correlation for weaning weight of Simmental cattle. Lee C, et al. **J Anim Sci** 1997 Jan; 75(1):68–75

Estimation of genetic variance and covariance components for weaning weight in Simmental cattle. Lee C, et al. **J Anim Sci** 1997 Feb;75(2):325–30

Mass selection for 70–day body weight in rabbits. Lukefahr SD, et al. **J Anim Sci** 1996 Jul;74(7):1481–9

Estimation of direct and maternal breed effects for prediction of expected progeny differences for birth and weaning weights in three multibreed populations. Rodríguez–Almeida FA, et al. **J Anim Sci** 1997 May; 75(5):1203–12

Direct and maternal genetic covariances by age of dam for weaning weight. Van Vleck LD, et al. **J Anim Sci** 1996 Aug;74(8):1801–5

Induction of Galphaq–specific antisense RNA in vivo causes increased body mass and hyperadiposity. Galvin–Parton PA, et al. **J Biol Chem** 1997 Feb 14;272(7):4335–41

Short–term selection for four–week body weight in Japanese quail. Anthony NB, et al. **Poult Sci** 1996 Oct;75(10):1192–7 (17 ref.)

Long–term divergent selection for eight–week body weight in white Plymouth rock chickens. Dunnington EA, et al. **Poult Sci** 1996 Oct;75(10):1168–79 (106 ref.)

Selection for high and low threshold body weight at first egg in broiler strain females. 7. Effect of photoperiod on body weight and age at onset of mature semen production, in males of the selection lines, and in commercial broiler and layer males. Eitan Y, et al. **Poult Sci** 1996 Jul; 75(7):828–32

Estimates of heritabilities and genetic correlations between tibial dyschondroplasia expression and body weight at two ages in broilers. Kuhlers DL, et al. **Poult Sci** 1996 Aug; 75(8):959–61

Long–term selection for body weight in Japanese quail under different environments. Marks HL. **Poult Sci** 1996 Oct; 75(10):1198–203

Divergent selection for body weight and yolk precursor in Coturnix coturnix japonica. 12. Heterosis in reciprocal crosses between divergently selected lines. Moritsu Y, et al. **Poult Sci** 1997 Mar;76(3):437–44

Direct and correlated responses to long–term selection for increased body weight and egg production in turkeys. Nestor KE, et al. **Poult Sci** 1996 Oct;75(10):1180–91 (54 ref.)

Requirement of STAT5b for sexual dimorphism of body growth rates and liver gene expression. Udy GB, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7239–44

Ill fitting genes: the biology of weight and shape control in relation to body composition and eating disorders [editorial] Treasure J, et al. **Psychol Med** 1997 May; 27(3):505–8

[Reducing weight with leptin (editorial)] Koivisto V. **Duodecim** 1995;111(18):1731–3 **(Fin)**

PHYSIOLOGY

Age, weight, body mass index and endometrial thickness in postmenopausal women [letter; comment] Andolf E, et al. **Acta Obstet Gynecol Scand** 1996 Oct;75(9):867–8. Comment on: Acta Obstet Gynecol Scand 1996 Feb;75(2):181–2.

Effect of weight changes on serum transaminase activities in obese children. Tazawa Y, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):210–4

Weight–length relationships and reproduction of bream (Abramis brama L.) in Keszthely Bay of Lake Balaton. Sharaf SM, et al. **Acta Vet Hung** 1997;45(2):197–206

Extended use of foods modified in fat and sugar content: nutritional implications in a free–living female population. Gatenby SJ, et al. **Am J Clin Nutr** 1997 Jun;65(6):1867–73

Body weight and blood pressure. Effects of weight reduction on hypertension. Jones DW. **Am J Hypertens** 1996 Aug; 9(8):50s–54s

Gonadal and photoperiodic influences on body mass regulation in adult male and female prairie voles. Kriegsfeld LJ, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1013–8

Discrete thalamic lesions attenuate winter adaptations and increase body weight. Purvis CC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R226–35

Lateral hypothalamic NMDA receptors and glutamate as physiological mediators of eating and weight control. Stanley BG, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R443–9

Number of ovulations in the marmoset monkey (Callithrix jacchus): relation to body weight, age and repeatability. Tardif SD, et al. **Am J Primatol** 1997;42(4):323–9

Effect of nutrition on the balance of production of ovarian and pituitary hormones in ewes. Boukhliq R, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):59–70

Central nervous system and body weight regulation. Rohner–Jeanrenaud E, et al. **Ann Endocrinol (Paris)** 1997; 58(2):137–42 (48 ref.)

Secular changes in standing height, sitting height and sexual maturation of Chinese—the Hong Kong Growth Study, 1993. Leung SS, et al. **Ann Hum Biol** 1996 Jul–Aug; 23(4):297–306

Growth differences associated with compulsive and stereotyped behavior disorders in adults with mental retardation. Powell SB, et al. **Anxiety** 1996;2(2):90–4

Respiratory rate and body mass in the first three years of life. The working party on respiratory rate. Gagliardi L, et al. **Arch Dis Child** 1997 Feb;76(2):151–4

Interspecies variation of "B" esterases in birds: the influence of size and feeding habits. Fossi MC, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):525–32

Effects of one year of hemodialysis on weight and blood pressure in 434 patients. Salem MM, et al. **Artif Organs** 1997 May;21(5):402–4

Artificial insemination of Bos indicus heifers: the effects of body weight, condition score, ovarian cyclic status and insemination regimen on pregnancy rate. Cavalieri J, et al. **Aust Vet J** 1995 Dec;72(12):441–7

Relationship of blood corticosterone, immunoglobulin and haematological values in young crocodiles (Crocodylus porosus) to water temperature, clutch of origin and body weight. Turton JA, et al. **Aust Vet J** 1997 Feb;75(2):114–9

Assessment of lipid peroxidation in rats of different body weight by determining expired ethane. Topp H, et al. **Biol Chem Hoppe Seyler** 1995 Nov;376(11):691–4

The relationship between anthropometric measurements and fractures in women. Gunnes M, et al. **Bone** 1996 Oct; 19(4):407–13

Body mass is the primary determinant of midfemoral bone acquisition during adolescent growth. Moro M, et al. **Bone** 1996 Nov;19(5):519–26

Meal frequency and energy balance. Bellisle F, et al. **Br J Nutr** 1997 Apr;77 Suppl 1:S57–70 (48 ref.)

Broiler chicken body weights, feed intakes, plasma lipid and small–intestinal bile acid concentrations in response to feeding of chitosan and pectin. Razdan A, et al. **Br J Nutr** 1997 Aug;78(2):283–91

Role of body weight and food intake after photostimulation on ovarian function at first egg in broiler breeder females. Hocking PM. **Br Poult Sci** 1996 Sep;37(4):841–51

Bone characteristics and body weight of broilers in different husbandry systems. Tolon B, et al. **Br Poult Sci** 1997 May; 38(2):132–5

Repeatability and phenotypic correlations for body weight and reproduction in commercial ostrich breeding pairs. van Schalkwyk SJ, et al. **Br Poult Sci** 1996 Dec;37(5):953–62

Effect of tibial dyschondroplasia on carcase part weights and bone characteristics. Yalçin S, et al. **Br Poult Sci** 1996 Dec; 37(5):923–7

Does bigger mean better? Evolutionary determinants of brain size and structure. Aboitiz F. **Brain Behav Evol** 1996; 47(5):225–45 (144 ref.)

Injection with gold thioglucose impairs sensitivity to glucose: evidence that glucose–responsive neurons are important for long–term regulation of body weight. Bergen HT, et al. **Brain Res** 1996 Sep 23;734(1–2):332–6

Commissural nucleus of the solitary tract lesions reduce food intake and body weight gain in rats. Menani JV, et al. **Brain Res** 1996 Nov 18;740(1–2):102–8

Maternal insulin manipulations in rats organize body weight and noradrenergic innervation of the hypothalamus in gonadally intact male offspring. Jones AP, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):16–21

Weight, body composition, and bone density in postmenopausal women. Harris SS, et al. **Calcif Tissue Int** 1996 Dec;59(6):428–32

Positional vs nonpositional obstructive sleep apnea patients: anthropomorphic, nocturnal polysomnographic, and multiple sleep latency test data. Oksenberg A, et al. **Chest** 1997 Sep;112(3):629–39

Body composition and fat distribution by dual energy X–ray

absorptiometry in overweight postmenopausal women. Effect of energy-restriction and exercise. Svendsen OL. **Dan Med Bull** 1996 Jun;43(3):249–62 (161 ref.)

Weight, blood pressure, osmolarity, and glucose levels across various stages of Alzheimer's disease and vascular dementia. Hogan DB, et al. **Dement Geriatr Cogn Disord** 1997 May–Jun;8(3):147–51

Effect of overweight and obesity on glucose intolerance and dyslipidemia in Saudi Arabia, epidemiological study. Rahman Al-Nuaim A. **Diabetes Res Clin Pract** 1997 Jun; 36(3):181–91

Reduction in body weight helps to delay the onset of diabetes even in non-obese with strong family history of the disease. Viswanathan M, et al. **Diabetes Res Clin Pract** 1997 Mar; 35(2–3):107–12

Changes in body weight and organ weight of Ishibashi (IS) rats with growth. Teramoto K, et al. **Exp Anim** 1996 Oct; 45(4):317–23

Role of pancreatic impairment in growth recovery during gluten-free diet in childhood celiac disease [see comments] Carroccio A, et al. **Gastroenterology** 1997 Jun; 112(6):1839–44. Comment in: Gastroenterology 1997 Jun;112(6):2146–7.

Seasonal variation of LH, sex steroids, body mass, molt, display, and laying in two subspecies of Houbara bustard, Chlamydotis undulata macqueenii and Chlamydotis undulata undulata, housed in outdoor cages under natural conditions. Saint Jalme M, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):102–12

Effects of day length and temperature on gonadal development, body mass, and fat depots in white-crowned sparrows, Zonotrichia leucophrys pugetensis. Wingfield JC, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):44–62

A mathematical approach for estimating reference values for weight-for-age, weight-for-height and height-for-age. Martins SJ, et al. **Growth Dev Aging** 1997 Spring;61(1):3–10

Differential catch-up in body weight and bone growth after short-term starvation in rats. Hermanussen M, et al. **Growth Regul** 1996 Dec;6(4):230–7

Dominance, nutritional state, and growth hormone levels in rainbow trout (Oncorhynchus mykiss). Johnsson JI, et al. **Horm Behav** 1996 Mar;30(1):13–21

Regulation of appetite and body weight. Schwartz MW. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):109–12, 117–9 (6 ref.)

Menstrual cycle and appetite control: implications for weight regulation. Dye L, et al. **Hum Reprod** 1997 Jun; 12(6):1142–51 (104 ref.)

Exposure of mice to pulsed magnetic fields: long-term observations. Bellossi A, et al. **In Vivo** 1996 May–Jun; 10(3):357–60

Dicrotic wave and anthropometry [letter] Hussain S, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):187–8

Assessment of the best compatible dialysis system: feasible application for bioelectrical impedance. Bazzato G, et al. **Int J Artif Organs** 1995 Nov;18(11):712–5

The concept of "dry weight" in maintenance hemodialysis: flaws in clinical application [editorial] Ifudu O. **Int J Artif Organs** 1996 Jul;19(7):384–6 (22 ref.)

Bioelectrical impedance and hemodialysis. Mandolfo S, et al. **Int J Artif Organs** 1995 Nov;18(11):700–4

The relationship between body weight and patterns of smoking in women and men. Rásky E, et al. **Int J Epidemiol** 1996 Dec;25(6):1208–12

Weight variability and mortality: the Iowa Women's Health Study. Folsom AR, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):704–9

Evening eating and subsequent long-term weight change in a national cohort. Kant AK, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):407–12

Dietary factors in relation to weight change among men and women from two southeastern New England communities. Parker DR, et al. **Int J Obes Relat Metab Disord** 1997 Feb;21(2):103–9

Changes in body weight in relation to mortality in 6441 European middle-aged men: the Seven Countries Study. Peters ET, et al. **Int J Obes Relat Metab Disord** 1995 Dec; .19(12):862–8

Use of weight-for-height indices in children to predict adult overweight: the Bogalusa Heart Study. Valdez R, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):715–21

Deviations from maximum weight predict high-density lipoprotein cholesterol levels in runners: the National Runners' Health Study. Williams PT. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):6–13

Physical activity, fat balance, and energy balance. Hill JO, et al. **Int J Sport Nutr** 1996 Jun;6(2):80–92 (83 ref.)

Psychosocial concerns and weight control behaviors among overweight and nonoverweight Native American adolescents. Neumark-Sztainer D, et al. **J Am Diet Assoc** 1997 Jun;97(6):598–604

The new biology of body weight regulation. Schwartz MW, et al. **J Am Diet Assoc** 1997 Jan;97(1):54–8; quiz 59–60 (41 ref.)

Patterns of nutrient interchange and oxygen use among portal-drained viscera, liver, and hindquarters of beef steers from 235 to 525 kg body weight. Eisemann JH, et al. **J Anim Sci** 1996 Aug;74(8):1812–31

Preweaning variables' influence on market traits in rabbits. Ferguson FA, et al. **J Anim Sci** 1997 Mar;75(3):611–21

Effect of protein and protein-free energy intake on protein and fat deposition rates in preruminant calves of 80 to 240 kg live weight. Gerrits WJ, et al. **J Anim Sci** 1996 Sep; 74(9):2129–39

Optimum body size of Holstein replacement heifers. Hoffman PC. **J Anim Sci** 1997 Mar;75(3):836–45 (61 ref.)

Feed intake, body weight, body condition score, musculation, and immunocompetence in aged mares given equine somatotropin. Malinowski K, et al. **J Anim Sci** 1997 Mar; 75(3):755–60

Compensatory growth in runt pigs is not mediated by insulin-like growth factor I. Ritacco G, et al. **J Anim Sci** 1997 May;75(5):1237–43

Effect of chronic immune system activation on the rate, efficiency, and composition of growth and lysine needs of pigs fed from 6 to 27 kg. Williams NH, et al. **J Anim Sci** 1997 Sep;75(9):2463–71

Effect of level of chronic immune system activation on the growth and dietary lysine needs of pigs fed from 6 to 112 kg. Williams NH, et al. **J Anim Sci** 1997 Sep;75(9):2481–96

Restraint vs. hindlimb suspension on fluid and electrolyte balance in rats. Bouzeghrane F, et al. **J Appl Physiol** 1996 Jun;80(6):1993–2001

Role of aerobic capacity and body mass index in the age-associated decline in heart rate variability. Byrne EA, et al. **J Appl Physiol** 1996 Aug;81(2):743–50

Body fat and exercise endurance in trained rats adapted to a high-fat and/or high-carbohydrate diet. Lapachet RA, et al. **J Appl Physiol** 1996 Apr;80(4):1173–9

Body-mass dependence of age-related deterioration in human muscular function. Meltzer DE. **J Appl Physiol** 1996 Apr;80(4):1149–55

Density of the fat-free mass and estimates of body composition in male weight trainers. Modlesky CM, et al. **J Appl Physiol** 1996 Jun;80(6):2085–96

Skeletal muscle collagen type I and III mRNA, [corrected] prolyl 4-hydroxylase, and collagen in hypobaric trained rats [published erratum appears in J Appl Physiol 1996 Dec;81(6):following table of contents] Perhonen M, et al. **J Appl Physiol** 1996 Jun;80(6):2226–33

Energy expenditure and requirement while climbing above 6,000 m. Pulfrey SM, et al. **J Appl Physiol** 1996 Sep; 81(3):1306–11

Effect of high-altitude hypoxia on feeding responses and hedonic matrix in rats. Singh SB, et al. **J Appl Physiol** 1996 Apr;80(4):1133–7

Skeletal muscle mass: evaluation of neutron activation and dual-energy X-ray absorptiometry methods. Wang ZM, et al. **J Appl Physiol** 1996 Mar;80(3):824–31

Effect of drink flavor and NaCL on voluntary drinking and hydration in boys exercising in the heat. Wilk B, et al. **J Appl Physiol** 1996 Apr;80(4):1112–7

Fat or lean tissue mass: which one is the major determinant of bone mineral mass in healthy postmenopausal women? Chen Z, et al. **J Bone Miner Res** 1997 Jan;12(1):144–51

Head circumference measurements in children with autism. Davidovitch M, et al. **J Child Neurol** 1996 Sep;11(5):389–93

Assessment of brain function in adolescent anorexia nervosa before and after weight gain. Bradley SJ, et al. **J Clin Exp Neuropsychol** 1997 Feb;19(1):20–33

Congenital hypothyroidism: auxological retrospective study during the first six years of age. Siragusa V, et al. **J Endocrinol Invest** 1996 Apr;19(4):224–9

Effects of weight cycling on coronary risk factors. Itoh T, et al. **J Epidemiol** 1996 Mar;6(1):55–62

Relation between the longitudinal development of lipoprotein levels and biological parameters during adolescence and young adulthood in Amsterdam, The Netherlands. Twisk JW, et al. **J Epidemiol Community Health** 1996 Oct; 50(5):505–11

Whole body metabolic responses to brain trauma in the rat. Roe SY, et al. **J Neurotrauma** 1997 Jun;14(6):399–408

Lipid infused into the duodenum of rats at varied rates influences food intake and body weight gain. Burton-Freeman B, et al. **J Nutr** 1996 Nov;126(11):2934–9

Body weight set-points: determination and adjustment. Keesey RE, et al. **J Nutr** 1997 Sep;127(9):1875S–1883S (31 ref.)

Interspecies comparisons of plasma half-life of trimethoprim in relation to body mass. Pashov DA, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):48–53

Variability in determination of body weight used for dosing busulphan and cyclophosphamide in adult patients: results of an international survey. Grigg A, et al. **Leuk Lymphoma** 1997 May;25(5–6):487–91

Evaluation of a Cys23Ser mutation within the human 5-HT2C receptor gene: no evidence for an association of the mutant allele with obesity or underweight in children, adolescents and young adults. Lentes KU, et al. **Life Sci** 1997;61(1):PL9–16

A tumor preventive effect of dietary restriction is antagonized by a high housing temperature through deprivation of torpor. Koizumi A, et al. **Mech Ageing Dev** 1996 Nov 29;92(1):67–82

The effect of reduced physical activity on longevity of mice. Mlekusch W, et al. **Mech Ageing Dev** 1996 Jul 17; 88(3):159–68

Influence of physical exercise on aging rats: I. Life-long exercise preserves patterns of spontaneous activity. Skalicky M, et al. **Mech Ageing Dev** 1996 Jun 7;87(2):127–39

Feasibility of peripheral blood stem cell (PBSC) and peripheral blood mononuclear cell (PBMNC) separation in children with a body weight below 20 KG. Urban C, et al. **Med Pediatr Oncol** 1997 Aug;29(2):115–20

Insulin secretion, glucose production, and insulin sensitivity in underweight and normal-weight volunteers, and in underweight and normal-weight cancer patients: a Clinical Research Center study. Tayek JA, et al. **Metabolism** 1997 Feb;46(2):140–5

Effect of prolonged exercise training without weight loss on high-density lipoprotein metabolism in overweight men. Thompson PD, et al. **Metabolism** 1997 Feb;46(2):217–23

Mice lacking mitochondrial uncoupling protein are cold-sensitive but not obese [see comments] Enerbäck S, et al. **Nature** 1997 May 1;387(6628):90–4. Comment in: Nature 1997 May 1;387(6628):27–8.

The alphabet of weight control [news; comment] Friedman JM. **Nature** 1997 Jan 9;385(6612):119–20. Comment on: Nature 1997 Jan 9;385(6612):165–8.

Plasma atrial natriuretic peptide, body weight and twenty-four-hour blood pressure monitoring in chronic hemodialysis patients. Ojanen S, et al. **Nephron** 1996; 73(2):174–8

Appetite and body weight regulation: is it all in the brain? Kalra SP. **Neuron** 1997 Aug;19(2):227–30 (22 ref.)

Parity-associated body weight: modification by sociodemographic and behavioral factors. Wolfe WS, et al. **Obes Res** 1997 Mar;5(2):131–41

Glucose production and gluconeogenesis are negatively related to body weight in mechanically ventilated, very low birth weight neonates. Keshen T, et al. **Pediatr Res** 1997 Jan;41(1):132–8

Effects of dietary copper deficiency on relative food intake and growth efficiency in rats. Allen CB. **Physiol Behav** 1996 Feb;59(2):247–53

Neuroendocrine correlates of separation stress in the Siberian dwarf hamster (Phodopus sungorus). Castro WL, et al. **Physiol Behav** 1997 Apr;61(4):477–84

Daylength and body mass affect diet self-selection by Siberian hamsters. Fine JB, et al. **Physiol Behav** 1996 Jun; 59(6):1039–50

Ever higher: constant rise of body weight set-point in growing zucker rats. Gosselin C, et al. **Physiol Behav** 1996 Sep;60(3):817–21

Adrenalectomy lowers the body weight set-point in rats. Gosselin C, et al. **Physiol Behav** 1997 Sep;62(3):519–23

The specific locus and time course of the body protein adjustments produced in rats by lesions of the lateral hypothalamus. Hirvonen MD, et al. **Physiol Behav** 1996 Sep;60(3):725–31

Posterodorsal amygdaloid lesions in rats: long-term effects on body weight. King BM, et al. **Physiol Behav** 1996 Dec; 60(6):1569–71

Morphological and metabolic changes associated with large differences in daily food intake in crossed-intestines rats. Koopmans HS, et al. **Physiol Behav** 1997 Jul;62(1):129–36

Food intake and body weight in rats with daily food-availability restrictions. Křížova E, et al. **Physiol Behav** 1996 Sep;60(3):791–4

Differential gender response produced by meal and ad lib feedings of a high-fat diet in Osborne-Mendel rats. Uhley VE, et al. **Physiol Behav** 1997 Sep;62(3):617–22

Food deprivation-induced increases in hoarding by Siberian hamsters are not photoperiod-dependent. Wood AD, et al. **Physiol Behav** 1996 Oct;60(4):1137–45

Comparative growth and development of Nicholas and hybrid toms from 16 to 82 days and effects of protein restriction from 0 to 59 days on growth of hybrid toms through 125 days of age. Barbour GW, et al. **Poult Sci** 1996 Jun;75(6):790–6

Selection for high and low threshold body weight at first egg in broiler strain females. 7. Effect of photoperiod on body weight and age at onset of mature semen production, in males of the selection lines, and in commercial broiler and layer males. Eitan Y, et al. **Poult Sci** 1996 Jul; 75(7):828–32

Layer performance of four strains of Leghorn pullets subjected to various rearing programs. Leeson S, et al. **Poult Sci** 1997 Jan;76(1):1–5

Beak trimming of turkeys. 1. Effects of three methods of beak trimming on body weight and mortality of six genetic lines. Noble DO, et al. **Poult Sci** 1996 Jun;75(6):702–4

Effect of strain and age of the broiler breeder female on incubation time and chick weight. Suarez ME, et al. **Poult Sci** 1997 Jul;76(7):1029–36

Central mediation of the effects of interleukin-1 on social exploration and body weight in mice. Bluthé RM, et al. **Psychoneuroendocrinology** 1997 Jan;22(1):1–11

Longitudinal effects of change in body mass on measurements of ventilatory capacity. Chinn DJ, et al. **Thorax** 1996 Jul; 51(7):699–704

Note on age and body weight at puberty in Mehraban Iranian fat-tailed ewe lambs. Bathaei SS, et al. **Trop Anim Health Prod** 1997 Feb;29(1):55–9

Estimation of liveweight from chest girth in pure and crossbred west African goats. Benyi K. **Trop Anim Health Prod** 1997 May;29(2):124–8

[The effect of the live weight of rats on the intestinal in vitro absorption of nickel using everted intestinal sacs] Eidelsburger U, et al. **Arch Tierernahr** 1996;49(4):287–91 (Eng. Abstr.) **(Ger)**

RADIATION EFFECTS

Effects of wavelength and intensity of light in initiation of body fattening and gonadal growth in a migratory bunting under complete and skeleton photoperiods. Kumar V, et

al. **Physiol Behav** 1996 Aug;60(2):625–31
Relationship between age of commercial broiler chickens and response to photostimulation. Stanley VG, et al. **Poult Sci** 1997 Feb;76(2):306–10

BOECK'S SARCOID see **SARCOIDOSIS**

BOIDAE

Exotic reptile bites. Kelsey J, et al. **Am J Emerg Med** 1997 Sep;15(5):536–7
Renal adenocarcinoma in a reticulated python (Python reticulatus). Gravendyck M, et al. **Vet Rec** 1997 Apr 5; 140(14):374–5

ANATOMY & HISTOLOGY

The sensory trigeminal system of a snake in the possession of infrared receptors. I. The sensory trigeminal nuclei. Molenaar GJ. **J Comp Neurol** 1978 May 1;179(1):123–35
The sensory trigeminal system of a snake in the possession of infrared receptors. II. The central projections of the trigeminal nerve. Molenaar GJ. **J Comp Neurol** 1978 May 1;179(1):137–51

BLOOD

Laboratory reference values for a group of captive Ball Pythons (Python regius) [see comments] Johnson JH, et al. **Am J Vet Res** 1996 Sep;57(9):1304–7. Comment in: Am J Vet Res 1996 Oct;57(10):1409.

METABOLISM

Amikacin pharmacokinetics and the effects of ambient temperature on the dosage regimen in ball pythons (Python regius). Johnson JH, et al. **J Zoo Wildl Med** 1997 Mar; 28(1):80–8
Disposition of enrofloxacin and its metabolite ciprofloxacin after intramuscular injection in juvenile Burmese pythons (Python molurus bivittatus). Young LA, et al. **J Zoo Wildl Med** 1997 Mar;28(1):71–9
Determinants of the postfeeding metabolic response of Burmese pythons, Python molurus. Secor SM, et al. **Physiol Zool** 1997 Mar–Apr;70(2):202–12

MICROBIOLOGY

Laboratory reference values for a group of captive Ball Pythons (Python regius) [see comments] Johnson JH, et al. **Am J Vet Res** 1996 Sep;57(9):1304–7. Comment in: Am J Vet Res 1996 Oct;57(10):1409.

PARASITOLOGY

Axenic culture of reptilian Blastocystis isolates in monophasic medium and speciation by karyotypic typing. Singh M, et al. **Parasitol Res** 1996;82(2):165–9

PHYSIOLOGY

Effects of meal size on postprandial responses in juvenile Burmese pythons (Python molurus). Secor SM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R902–12
The thermal biology of digestion in rubber boas (Charina bottae): physiology, behavior, and environmental constraints. Dorcas ME, et al. **Physiol Zool** 1997 May–Jun; 70(3):292–300

BOILS see **FURUNCULOSIS**

BOMBESIN

see related
RECEPTORS, BOMBESIN

ADMINISTRATION & DOSAGE

Pharmaco-ontogenic modulation of feeding by oxytocin, bombesin, and their antagonists. Merali Z, et al. **Peptides** 1996;17(7):1119–26
[Effect of bombesin(6–14) on the arterial pressure in normal condition and during hypovolemic shock] Mar'ianovich AT, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):372–4 **(Rus)**

ANALOGS & DERIVATIVES

Bombesin-like peptides stimulate somatostatin release from rat fundic D cells in primary culture. Schaffer K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G686–95
Migration of guinea pig airway epithelial cells in response to bombesin analogues. Kim JS, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):259–66
Pharmacological profiles of two bombesin analogues in cells transfected with human neuromedin B receptors. Ryan RR, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):307–14
Alanine scan and N-methyl amide derivatives of Ac-bombesin[7–14]. Development of a proposed binding conformation at the neuromedin B (NMB) and gastrin releasing peptide (GRP) receptors. Horwell DC, et al. **Int J Pept Protein Res** 1996 Dec;48(6):522–31
Bombesin specifically induces intracellular calcium mobilization via gastrin-releasing peptide receptors in human prostate cancer cells. Aprikian AG, et al. **J Mol Endocrinol** 1996 Jun;16(3):297–306
Treatment of pulmonary hypertension with bombesin antagonist [letter] Hurel SJ, et al. **Lancet** 1996 Nov 2; 348(9036):1243
Effects of structural modulation on biological activity of bombesin analogues with (E)-alkene bond. Fujimoto K, et al. **Life Sci** 1997;60(1):29–34
Role of endogenous bombesin-peptides during vagal stimulation of gastric acid secretion in the rat. Weigert N, et al. **Neuropeptides** 1996 Dec;30(6):521–7
Reduction in receptors for bombesin and epidermal growth factor in xenografts of human small-cell lung cancer after treatment with bombesin antagonist RC-3095. Halmos G, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):956–60
Characterization of intracellular calcium mobilization by bombesin-related neuropeptides in PC-3 human prostate cancer cells. Han K, et al. **Prostate** 1997 Apr 1;31(1):53–60
Luteinizing hormone-releasing hormone antagonist Cetrorelix (SB-75) and bombesin antagonist RC-3940-II inhibit the growth of androgen-independent PC-3 prostate cancer in nude mice. Jungwirth A, et al. **Prostate** 1997 Aug 1;32(3):164–72
Importance of gastrin-releasing peptide on acid-induced secretin release and pancreaticobiliary and duodenal bicarbonate secretion. Glad H, et al. **Scand J Gastroenterol** 1996 Oct;31(10):993–1000

ANALYSIS

Distribution of some neuropeptides in the porcine inferior mesenteric ganglion. Lakomy M, et al. **Folia Histochem Cytobiol** 1996;34(2):85–90
Expression of vasoactive intestinal peptide, substance P and bombesin-flanking peptide in nasal polyps. Kühn AG, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Jul–Aug; 58(4):229–32

ANTAGONISTS & INHIBITORS

[D-Arg1,D-Trp5,7,9,Leu11]Substance P coordinately and reversibly inhibits bombesin- and vasopressin-induced signal transduction pathways in Swiss 3T3 cells. Seckl MJ, et al. **J Biol Chem** 1996 Nov 15;271(46):29453–60
Treatment of pulmonary hypertension with bombesin antagonist [letter] Hurel SJ, et al. **Lancet** 1996 Nov 2; 348(9036):1243
Luteinizing hormone-releasing hormone antagonist Cetrorelix (SB-75) and bombesin antagonist RC-3940-II inhibit the growth of androgen-independent PC-3 prostate cancer in nude mice. Jungwirth A, et al. **Prostate** 1997 Aug 1;32(3):164–72

BIOSYNTHESIS

Bombesin-like peptide is present in duct cells in salivary glands: studies on normal and irradiated animals. Aalto Y, et al. **Neuropeptides** 1997 Apr;31(2):167–73

CHEMISTRY

Alanine scan and N-methyl amide derivatives of Ac-bombesin[7–14]. Development of a proposed binding conformation at the neuromedin B (NMB) and gastrin releasing peptide (GRP) receptors. Horwell DC, et al. **Int J Pept Protein Res** 1996 Dec;48(6):522–31
NMR structure of neuromedin C, a neurotransmitter with an amino terminal CuII-, NiII-binding (ATCUN) motif. Gasmi G, et al. **J Pept Res** 1997 Jun;49(6):500–9
Design, synthesis, and in vitro evaluation of cytotoxic analogs of bombesin-like peptides containing doxorubicin or its intensely potent derivative, 2-pyrrolinodoxorubicin. Nagy A, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):652–6

DIAGNOSTIC USE

Localization of iodine-125-mIP-Des-Met14-bombesin (7–13)NH2 in ovarian carcinoma induced to express the gastrin releasing peptide receptor by adenoviral vector-mediated gene transfer [see comments] Rogers BE, et al. **J Nucl Med** 1997 Aug;38(8):1221–9. Comment in: J Nucl Med 1997 Aug;38(8):1230–3.

DRUG EFFECTS

Different influence of CGRP (8–37), an amylin and CGRP antagonist, on the anorectic effects of cholecystokinin and bombesin in diabetic and normal rats. Lutz TA, et al. **Peptides** 1997;18(5):643–9

IMMUNOLOGY

Antitumor activity of a monoclonal antibody directed against gastrin-releasing peptide in patients with small cell lung cancer. Kelley MJ, et al. **Chest** 1997 Jul;112(1):256–61
Ultrastructure of bombesin-like immunoreactive nerve terminals in the nucleus of the solitary tract and the dorsal motor nucleus. Lynn RB, et al. **J Auton Nerv Syst** 1997 Feb 17;62(3):174–82

METABOLISM

Identification of functional GRP-preferring bombesin receptors on human melanoma cells. Pansky A, et al. **Eur J Clin Invest** 1997 Jan;27(1):69–76
Characterization of bombesin binding sites in the rat stomach. Ladenheim EE, et al. **Eur J Pharmacol** 1997 Jan 29; 319(2–3):245–51
Tyrosine phosphorylation of p130(cas) by bombesin, lysophosphatidic acid, phorbol esters, and platelet-derived growth factor. Signaling pathways and formation of a p130(cas)-Crk complex. Casamassima A, et al. **J Biol Chem** 1997 Apr 4;272(14):9363–70
Distribution of bombesin-like immunoreactivity in the nucleus of the solitary tract and dorsal motor nucleus of the rat and human: colocalization with tyrosine hydroxylase. Lynn RB, et al. **J Comp Neurol** 1996 Jun 10; 369(4):552–70
Bombesin and neuromedin B stimulate the activation of p42(mapk) and p74(raf-1) via a protein kinase C-independent pathway in Rat-1 cells. Charlesworth A, et al. **Oncogene** 1997 May 15;14(19):2323–9
Role of vagal fibers and bombesin/gastrin-releasing peptide-neurons in distention-induced gastrin release in rats. Weigert N, et al. **Regul Pept** 1997 Mar 12;69(1):33–40

PHARMACOLOGY

CCK, carbachol, and bombesin activate distinct PLC-beta isoenzymes via Gq/11 in rat pancreatic acinar membranes. Piiper A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G135–40
Bombesin-stimulated ceramide production and MAP kinase activation in rabbit rectosigmoid smooth muscle cells. Sbrissa D, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1615–25
Bombesin-like peptides stimulate somatostatin release from rat fundic D cells in primary culture. Schaffer K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G686–95
Relationships between gastric motility and gastric vagal afferent responses to CCK and GRP in rats differ. Schwartz GJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1726–33
Peripheral bombesin induces gastric vagal afferent activation in rats. Yoshida-Yoneda E, et al. **Am J Physiol** 1996 Dec; 271(6 Pt 2):R1584–93
Expression of mRNA for gastrin-releasing peptide receptor by human bronchial epithelial cells. Association with prolonged tobacco exposure and responsiveness to bombesin-like peptides. Siegfried JM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):358–66
c-Fos induction in the nucleus of the solitary tract of sodium-depleted rats by salt intake, peripheral bombesin, and the combination. Frankmann SP, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:292–4
Effect of bombesin on impairment of upper respiratory tract immunity induced by total parenteral nutrition. Janu PG, et al. **Arch Surg** 1997 Jan;132(1):89–93
Bombesin and cholecystokinin differentially affect ingestive microstructural variables whether given alone or in combination. Moran TH, et al. **Behav Neurosci** 1996 Oct; 110(5):1110–6
The co-mitogenic combination of transforming growth factor beta 1 and bombesin protects protein kinase C-delta from late-phase down-regulation, despite synergy in diacylglycerol accumulation. Olivier AR, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):519–25
Bombesin and thrombin affect discrete pools of intracellular calcium through different G-proteins. Wang JL, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):87–91
Neuromedin C decreases potassium conductance and increases a non-specific conductance in rat suprachiasmatic neurones in brain slices in vitro. Reynolds T, et al. **Brain Res** 1997 Mar 7;750(1–2):67–80
Oscillations of cytosolic free calcium in bombesin-stimulated HIT-T15 cells. Li G, et al. **Cell Calcium** 1996 Jun; 19(6):535–46
Generation of repetitive Ca2+ transients by bombesin requires intracellular release and influx of Ca2+ through voltage-dependent and voltage independent channels in single HIT cells. Schöfl C, et al. **Cell Calcium** 1996 Jun; 19(6):485–93
Large induction of c-Myc is not essential for the mitogenic response of Swiss 3T3 fibroblasts. Mehmet H, et al. **Cell Growth Differ** 1997 Feb;8(2):187–93
Mechanisms of bombesin on growth of gastrinoma (PT) in vivo. Chu KU, et al. **Dig Dis Sci** 1996 Nov;41(11):2180–6
Stimulation of phospholipase C activity by norepinephrine, t-ACPD and bombesin in LA-N-2 cells. Sorrentino G, et al. **Eur J Pharmacol** 1996 Jul 11;308(1):81–6
Bombesin stimulates the motility of human prostate-carcinoma cells through tyrosine phosphorylation of focal adhesion kinase and of integrin-associated proteins. Aprikian AG, et al. **Int J Cancer** 1997 Jul 29;72(3):498–504
Bombesin may stimulate proliferation of human pancreatic cancer cells through an autocrine pathway. Wang QJ, et al. **Int J Cancer** 1996 Nov 15;68(4):528–34
In vitro characterization of bombesin and calcitonin on the proliferation of PC3, DU 145 and LNCaP cancer prostatic cell lines. Larrán J, et al. **Int J Dev Biol** 1996;Suppl 1:275S–276S
Bombesin, bradykinin, vasopressin, and phorbol esters rapidly and transiently activate Src family tyrosine kinases in Swiss 3T3 cells. Dissociation from tyrosine phosphorylation of p125 focal adhesion kinase. Rodríguez-Fernández JL, et al. **J Biol Chem** 1996 Nov 1;271(44):27895–901
Rapamycin dissociates p70(S6K) activation from DNA synthesis stimulated by bombesin and insulin in Swiss 3T3 cells. Withers DJ, et al. **J Biol Chem** 1997 Jan 24; 272(4):2509–14
Bombesin-induced gastrin release from canine G cells is stimulated by Ca2+ but not by protein kinase C, and is enhanced by disruption of rho/cytoskeletal pathways. Seensalu R, et al. **J Clin Invest** 1997 Sep 1;100(5):1037–46
Involvement of bombesin in spermine-induced corticosterone

secretion and intestinal maturation in suckling rats. Kaouass M, et al. **J Endocrinol** 1997 Jun;153(3):429–36

Effect of gastrin-releasing peptide (GRP) on guinea pig gallbladder contraction in vitro. Liu F, et al. **J Gastroenterol** 1995 Dec;30(6):764–7

Bombesin specifically induces intracellular calcium mobilization via gastrin-releasing peptide receptors in human prostate cancer cells. Aprikian AG, et al. **J Mol Endocrinol** 1996 Jun;16(3):297–306

Brain prostaglandins mediate the bombesin-induced increase in plasma levels of catecholamines. Okuma Y, et al. **Life Sci** 1996;59(15):1217–25

Mammalian bombesin-like peptides suppress sham drinking of salt by sodium-deficient rats. Flynn FW. **Peptides** 1996; 17(6):951–6

Attenuation of the anorectic effects of glucagon, cholecystokinin, and bombesin by the amylin receptor antagonist CGRP(8–37). Lutz TA, et al. **Peptides** 1996; 17(1):119–24

Simultaneous administration of neuromedin B-10 and gastrin-releasing peptide(1–27) reproduces the satiating and microstructural effects of bombesin. Stratford TR, et al. **Peptides** 1996;17(1):107–10

Receptor subtype mediation of feeding suppression by bombesin-like peptides. Ladenheim EE, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):705–11

Vena caval bombesin infusion decreases spontaneous meal size in undisturbed rats. Rushing PA, et al. **Physiol Behav** 1996 Feb;59(2):307–10

Characterization of intracellular calcium mobilization by bombesin-related neuropeptides in PC-3 human prostate cancer cells. Han K, et al. **Prostate** 1997 Apr 1;31(1):53–60

Peripherally and centrally administered bombesin induce Fos-like immunoreactivity in different brain regions in rats. Li BH, et al. **Regul Pept** 1996 Apr 23;62(2–3):167–72

Bombesin activation of phospholipase C beta 1 in rat acinar pancreatic cells involves the pertussis toxin-sensitive G alpha i3 protein. Pigeon C, et al. **Regul Pept** 1996 Apr 23;62(2–3):153–9

Bombesin enhances monocyte and macrophage activities: possible role in the modulation of local pulmonary defenses in chronic bronchitis. Meloni F, et al. **Respiration** 1996; 63(1):28–34

Bombesin inhibits histamine release from the rat oxyntic mucosa by a somatostatin-dependent mechanism. Sandvik AK, et al. **Scand J Gastroenterol** 1997 May;32(5):427–32

PHYSIOLOGY

Regulation of ingestion by CRF and bombesin-like peptides: distinct meal-related peptide level changes. Plamondon H, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R268–74

Bombesin-like peptides and airway repair: a recapitulation of lung development? Spurzem JR, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):209–11 (44 ref.)

Development of bombesin-like and histamine-like innervation in the bullfrog (Rana catesbeiana) central nervous system. Leger JP, et al. **Brain Behav Evol** 1997; 49(2):63–77

Bombesin-like peptides and cancer. Preston SR, et al. **Crit Rev Oncol Hematol** 1996 Jul;23(3):225–38 (143 ref.)

Bombesin stimulates bicarbonate secretion from rat cholangiocytes: implications for neural regulation of bile secretion. Cho WK, et al. **Gastroenterology** 1997 Jul; 113(1):311–21

Bombesin receptor structure and expression in human lung carcinoma cell lines. Fathi Z, et al. **J Cell Biochem Suppl** 1996;24:237–46

Role of endogenous bombesin-peptides during vagal stimulation of gastric acid secretion in the rat. Weigert N, et al. **Neuropeptides** 1996 Dec;30(6):521–7

[The role of neuroendocrine cells and bombesin neuropeptides in the pathogenesis of smoking related diseases, especially chronic obstructive pulmonary disease] Siemińska A, et al. **Pneumonol Alergol Pol** 1997; 65(1–2):123–8 (32 ref.) **(Pol)**

TOXICITY

Stress-activated protein kinase activation is the earliest direct correlate to the induction of secretagogue-induced pancreatitis in rats. Grady T, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):1–7

BOMBESIN RECEPTORS see **RECEPTORS, BOMBESIN**

BOMBINA see **ANURA**

BOMBYX see **SILKWORMS**

BOND, PAIR see **PAIR BOND**

BONDING (PSYCHOLOGY) see **OBJECT ATTACHMENT**

BONDING, DENTAL see **DENTAL BONDING**

BONDING, HUMAN-PET

The healing power of pets: a look at animal-assisted therapy. Dossey L. **Altern Ther Health Med** 1997 Jul;3(4):8–16 (31 ref.)

The legal implications of the veterinarian's role as a private practitioner and health professional, with particular reference to the human-animal bond: Part 1, The law of negligence. Jack DC. **Can Vet J** 1997 Aug;38(8):511–6 **(Eng, Fre)**

HABAC is alive and well, but needs more veterinarians as members [letter] Rowsell HC. **Can Vet J** 1996 Dec; 37(12):711

On the temporal onset of postmortem animal scavenging. "Motivation" of the animal. Rothschild MA, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):57–64

Older people and attachment to things, places, pets, and ideas. Cookman CA. **Image J Nurs Sch** 1996 Fall;28(3):227–31 (56 ref.)

Effects of dogs on human health. Allen DT. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1136–9 (29 ref.)

Human–canine interactions: a summary of perspectives. Beaver BV. **J Am Vet Med Assoc** 1997 Apr 15; 210(8):1148–50 (28 ref.)

Celebrating the relationship between people, pets, and their veterinarians. Becker M. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1126–9

Primitive dogs, their ecology and behavior: unique opportunities to study the early development of the human–canine bond. Brisbin IL Jr, et al. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1122–6 (20 ref.)

Sticking with the bond [letter; comment] Catanzaro TE. **J Am Vet Med Assoc** 1997 Mar 15;210(6):748–9. Comment on: J Am Vet Med Assoc 1997 Jan 15;210(2):184–6.

Veterinarians, disabled clients, and assistance dogs. Eames E, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1398–402

Selecting, raising, and caring for dogs to avoid problem aggression. Hart BL, et al. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1129–34 (17 ref.)

An overview of disaster preparedness for veterinarians [comment] Heath SE, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):345–8 (19 ref.). Comment on: J Am Vet Med Assoc 1997 Feb 1;210(3):325–8.

Current issues in the control of stray and feral cats. Mahlow JC, et al. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2016–20

The importance of the human–animal bond [letter; comment] Milani MM. **J Am Vet Med Assoc** 1996 Sep 15; 209(6):1064–5. Comment on: J Am Vet Med Assoc 1996 Jul 15;209(2):194–462.

Factors associated with the decision to surrender a pet to an animal shelter. Miller DD, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):738–42

Sticking with the bond [letter; comment] Olson PN. **J Am Vet Med Assoc** 1997 Mar 15;210(6):749. Comment on: J Am Vet Med Assoc 1997 Jan 15;210(2):184–6.

The law of veterinary liability and the human–animal bond [see comments] Perron J. **J Am Vet Med Assoc** 1997 Jan 15;210(2):184–6. Comment in: J Am Vet Med Assoc 1997 Mar 15;210(6):748–9. Comment in: J Am Vet Med Assoc 1997 Mar 15;210(6):749.

Psychological elements of attachment to pets and responses to pet loss. Stern M. **J Am Vet Med Assoc** 1996 Nov 15; 209(10):1707–11

Veterinarians and their human clients. Stutts JC. **J Am Vet Med Assoc** 1997 Jun 15;210(12):1742–4

AVMA forum focuses on aggressive dogs [news] Suzik HA. **J Am Vet Med Assoc** 1997 Feb 1;210(3):305–6, 308

Pet Therapy Program. Proposal for the US Department of Health and Human Services. 1996 Secretary's Award. Teeter LM. **J Am Vet Med Assoc** 1997 May 15; 210(10):1435–8 (7 ref.)

More on liability and the human–animal bond. Wright JS, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1413

Framing animal disease: housecats with feline urological syndrome, their owners, and their doctors. Jones SD. **J Hist Med Allied Sci** 1997 Apr;52(2):202–35

RM and Beaux: reductions in cardiac activity in response to a pet snake. Eddy TJ. **J Nerv Ment Dis** 1996 Sep; 184(9):573–5

Companion animal health education programmes in schools [letter; comment] McCrindle CM. **J S Afr Vet Assoc** 1996 Sep;67(3):102. Comment on: J S Afr Vet Assoc 1996 Mar;67(1):31–5.

Meaningful relationships in veterinary practice. Odendaal JS. **J S Afr Vet Assoc** 1996 Sep;67(3):137–40

Pet ownership and future health [letter] Anderson WP, et al. **Med J Aust** 1997 Aug 18;167(4):230; discussion 230–1

Impact of pet ownership on elderly Australians' use of medical services: an analysis using Medicare data. Jorm AF, et al. **Med J Aust** 1997 Apr 7;166(7):376–7

Pet ownership and future health [letter] Simons LA, et al. **Med J Aust** 1997 Aug 18;167(4):231–2

Companion animals and the psychological health of Alzheimer patients' caregivers. Fritz CL, et al. **Psychol Rep** 1996 Apr;78(2):467–81

Avian companionship in alleviation of depression, loneliness, and low morale of older adults in skilled rehabilitation units [see comments] Jessen J, et al. **Psychol Rep** 1996 Feb; 78(1):339–48. Comment in: Psychol Rep 1996 Apr;78(2):482.

Bedside stuffed animals and borderline personality. Labbate LA, et al. **Psychol Rep** 1996 Oct;79(2):624–6

Aggressive behaviour in English cocker spaniels and the personality of their owners. Podberscek AL, et al. **Vet Rec** 1997 Jul 19;141(3):73–6

[Pets; a spiritual and physical blessing] Deleu S, et al. **Tijdschr Diergeneeskd** 1997 Jan 1;122(1):12–5 **(Dut)**

[Cemeteries and crematoriums for animals? Social and emotional aspects of the changed human–animal relationship and the resulting needs and risks] Ratsch H. **DTW Dtsch Tierarztl Wochenschr** 1997 Jul;104(7):261–4 (Eng. Abstr.) **(Ger)**

[Behavioral disorders in psittacines. 2: Therapeutic measures] Hollmann P. **Tierarztl Prax** 1997 Jul;25(4):356–62 (46 ref.) (Eng. Abstr.) **(Ger)**

BONDS, EMOTIONAL see **OBJECT ATTACHMENT**

BONE AGE MEASUREMENT see **AGE DETERMINATION BY SKELETON**

BONE AND BONES

consider also terms at OSSI- and OSTE-

see related
ARTHRODESIS
CALCIFICATION, PHYSIOLOGIC
OSTEOGENESIS
OSTEOTOMY

Reply to Stoneking: ancient DNA--how do you really know when you have it? [letter; comment] Cooper A. **Am J Hum Genet** 1997 Apr;60(4):1001–3. Comment on: Am J Hum Genet 1995 Dec;57(6):1259–62.

Three-dimensional culture of canine articular chondrocytes on multiple transplantable substrates. Cook JL, et al. **Am J Vet Res** 1997 Apr;58(4):419–24

Three-dimensional composite of demineralized bone powder and collagen for in vitro analysis of chondroinduction of human dermal fibroblasts. Mizuno S, et al. **Biomaterials** 1996 Sep;17(18):1819–25

Differences of bone bonding ability and degradation behaviour in vivo between amorphous calcium phosphate and highly crystalline hydroxyapatite coating. Nagano M, et al. **Biomaterials** 1996 Sep;17(18):1771–7

Morphological features of bone healing under the effect of collagen-graft-glycosaminoglycan copolymer supplemented with the tripeptide Gly-His-Lys. Pohunková H, et al. **Biomaterials** 1996 Aug;17(16):1567–74

Proceedings of the Portland Bone Symposium 1995. Portland, Oregon, August 2–5, 1995. **Bone** 1996 Jul;19(1 Suppl):1S–128S

The correlation of bone mineral density and biochemical markers to fracture risk. Adachi JD. **Calcif Tissue Int** 1996; 59 Suppl 1:16–9

The missing bone [comment] Rodan GA, et al. **Cell** 1997 May 30;89(5):677–80 (22 ref.). Comment on: Cell 1997 May 30;89(5):747–54. Comment on: Cell 1997 May 30;89(5):755–64. Comment on: Cell 1997 May 30;89(5):765–71. Comment on: Cell 1997 May 30;89(5):773–9.

Pulmonary embolism with bone fragments following vertebral body marrow infusion for tolerance induction. Fernandez LA, et al. **Cell Transplant** 1996 Jul–Aug; 5(4):513–6

Imaging of stress injuries to bone. Radiography, scintigraphy, and MR imaging. Deutsch AL, et al. **Clin Sports Med** 1997 Apr;16(2):275–90 (29 ref.)

Mechanical validation of whole bone composite femur models [see comments] Cristofolini L, et al. **J Biomech** 1996 Apr;29(4):525–35 (44 ref.). Comment in: J Biomech 1996 Sep;29(9):1241.

Friction properties at the bone–metal interface: comparison of four different porous metal surfaces. Dammak M, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):329–36

Water and bovine serum lubrication compared in simulator PTFE/CoCr wear model. Good VD, et al. **J Biomed Mater Res** 1996 Winter;33(4):275–83

Bidirectional friction study of cancellous bone–porous coated metal interface. Hashemi A, et al. **J Biomed Mater Res** 1996 Winter;33(4):257–67

Bone bonding behavior of titanium and its alloys when coated with titanium oxide (TiO_2) and titanium silicate (Ti_5Si_3). Kitsugi T, et al. **J Biomed Mater Res** 1996 Oct;32(2):149–56

Factors influencing stability at the interface between a porous surface and cancellous bone: a finite element analysis of a canine in vivo micromotion experiment. Ramamurti BS, et al. **J Biomed Mater Res** 1997 Aug;36(2):274–80

Interfacial fracture toughness of tissue–biomaterial systems. Wang X, et al. **J Biomed Mater Res** 1997 Spring;38(1):1–10

18th Annual meeting of the American Society for Bone and Mineral Research. Seattle, Washington, September 7–11, 1996. Abstracts. **J Bone Miner Res** 1996 Aug;11 Suppl 1:S1–540

19th Annual meeting of the American Society for Bone and Mineral Research. Cincinnati, Ohio, September 10–14, 1997. Abstracts. **J Bone Miner Res** 1997 Aug;12 Suppl 1:S103–576

Three-dimensional ultrasound and hysteroscopy in the evaluation of intrauterine retained fetal bones. Wu MH, et al. **J Clin Ultrasound** 1997 Feb;25(2):93–5

Protein and amino acid quality of meat and bone meal. Parsons CM, et al. **Poult Sci** 1997 Feb;76(2):361–8

Metacarpal growth and systemic markers of bone metabolism in the ovine fetus. Collignon H, et al. **Reprod Fertil Dev** 1996;8(2):287–95

Severe infections following fish bone and spine injuries. de Wind CM. **Trop Doct** 1996 Oct;26(4):168–9

Raw meaty bones lobby group [letter] Lonsdale T. **Vet Rec** 1996 Dec 21–28;139(25):632

[Malignant bone pain] Thomsen CB, et al. **Ugeskr Laeger** 1997 Apr 14;159(16):2364–9 (40 ref.) (Eng. Abstr.) **(Dan)**

[The dimension of animal carcass disposal in Germany and Europe-- quantification and differentiation] Böhm R. **DTW Dtsch Tierarztl Wochenschr** 1997 Jul;104(7):232-8 (Eng. Abstr.) **(Ger)**

[Animal husbandry and hunting in the neolithic age as an example of animal remains Pestenacker (Lkr. Landsberg am Lech) settlement] Sorge G. **Tierarztl Prax** 1996 Oct; 24(5):432-5 (Eng. Abstr.) **(Ger)**

ABNORMALITIES

Congenital ectopic nails of the fingers is associated with bone deformities [letter] Kuniyuki S. **Acta Derm Venereol** 1996 Jul;76(4):322-3

Camptomelic dysplasia: report of one case. Tsao PN, et al. **Acta Paediatr Sin** 1996 Sep-Oct;37(5):381-3

Hereditary deficiency of vitamin K-dependent coagulation factors with skeletal abnormalities. Boneh A, et al. **Am J Med Genet** 1996 Oct 28;65(3):241-3

Autosomal recessive severe dwarfism in a Sicilian girl: a new form of osteodysplastic primordial dwarfism? Corsello G, et al. **Am J Med Genet** 1996 Dec 18;66(3):265-8

Velo-facio-skeletal syndrome versus Aarskog syndrome [letter; comment] Fryns JP, et al. **Am J Med Genet** 1996 Sep 6;64(4):604. Comment on: Am J Med Genet 1995 Jul 31;58(1):8-12.

Pattern of malformations in the axial skeleton in human trisomy 21 fetuses. Keeling JW, et al. **Am J Med Genet** 1997 Feb 11;68(4):466-71

Further clinical delineation and increased morbidity in males with osteopathia striata with cranial sclerosis: an X-linked disorder? Pellegrino JE, et al. **Am J Med Genet** 1997 May 16;70(2):159-65

Retarded skeletal development in transgenic mice with a type II collagen mutation. Savontaus M, et al. **Am J Pathol** 1996 Dec;149(6):2169-82

Interactions of radiofrequency radiation-induced hyperthermia and 2-methoxyethanol teratogenicity in rats. Nelson BK, et al. **Bioelectromagnetics** 1997;18(5):349-59

High resolution real time ultrasonography in antenatal diagnosis of skeletal anomalies. Pagnotta G, et al. **Bull Hosp Jt Dis** 1996;54(4):226-9

Skeletal and CNS defects in Presenilin-1-deficient mice. Shen J, et al. **Cell** 1997 May 16;89(4):629-39

Yunis-Varon syndrome: the first case of German origin. Rabe H, et al. **Clin Dysmorphol** 1996 Jul;5(3):217-22

A new multiple malformation syndrome of Müllerian dysgenesis and conductive hearing loss with facial hypoplasia, bilateral forearm deformity, brachydactyly, spinal stenosis and scoliosis. Kumar D, et al. **Clin Genet** 1997 Jul;52(1):30-6

Different MRF4 knockout alleles differentially disrupt Myf-5 expression: cis-regulatory interactions at the MRF4/Myf-5 locus. Yoon JK, et al. **Dev Biol** 1997 Aug 15;188(2):349-62

Specific and redundant functions of Gli2 and Gli3 zinc finger genes in skeletal patterning and development. Mo R, et al. **Development** 1997 Jan;124(1):113-23

Joint patterning defects caused by single and double mutations in members of the bone morphogenetic protein (BMP) family. Storm EE, et al. **Development** 1996 Dec; 122(12):3969-79

An scl gene product lacking the transactivation domain induces bony abnormalities and cooperates with LMO1 to generate T-cell malignancies in transgenic mice. Aplan PD, et al. **EMBO J** 1997 May 1;16(9):2408-19

BMP7 null mutation in mice: developmental defects in skeleton, kidney, and eye. Jena N, et al. **Exp Cell Res** 1997 Jan 10;230(1):28-37

Localization of a novel t(1;7) translocation associated with Wilms' tumor predisposition and skeletal abnormalities. Reynolds PA, et al. **Genes Chromosomes Cancer** 1996 Nov; 17(3):151-5

Diagnostic clarity in orthopedics due to advanced technology: thoughts on the surgeon's role and responsibilities. Kahn A, et al. **Iowa Orthop J** 1997;17:70-9

Limb and other postcranial skeletal defects induced by amniotic sac puncture in the mouse. Chang HH, et al. **J Anat** 1996 Aug;189 (Pt 1):37-49

Congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency with skeletal abnormalities. Ajlouni KM, et al. **J Endocrinol Invest** 1996 May;19(5):316-9

Kenny syndrome: case report and literature review. Tsai CE, et al. **J Formos Med Assoc** 1996 Oct;95(10):793-7

Haematological, ocular and skeletal abnormalities in a samoyed family. Aroch I, et al. **J Small Anim Pract** 1996 Jul;37(7):333-9

Developmental toxicity of clarified slurry oil, syntower bottoms, and distillate aromatic extract administered as a single oral dose to pregnant rats. Feuston MH, et al. **J Toxicol Environ Health** 1996 Sep;49(1):45-66

Redefining the genital abnormality in the Robinow syndrome. -004 Wilcox DT, et al. **J Urol** 1997 Jun; 157(6):2312-4

Rbt (Rabo torcido), a new mouse skeletal mutation involved in anteroposterior patterning of the axial skeleton, maps close to the Ts (tail-short) locus and distal to the Sox9 locus on chromosome 11. Hustert E, et al. **Mamm Genome** 1996 Dec;7(12):881-5

High-resolution genetic mapping of the hypodactyly (Hd) locus on mouse chromosome 6. Innis JW, et al. **Mamm Genome** 1996 Jan;7(1):2-5

Mutations in CDMP1 cause autosomal dominant brachydactyly type C [letter] Polinkovsky A, et al. **Nat Genet** 1997 Sep;17(1):18-9

Skeletal abnormalities in Meckel syndrome. Shanks J, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug;17(4):625-30

Radiographic findings in Shprintzen-Goldberg syndrome. Nishimura G, et al. **Pediatr Radiol** 1996 Nov;26(11):775-8

Sodium valproate augments spontaneous neural tube defects and axial skeletal malformations in TO mouse fetuses [corrected] [published erratum appears in Reprod Toxicol 1996 Nov-Dec;10(6):VI] Padmanabhan R, et al. **Reprod Toxicol** 1996 Sep-Oct;10(5):345-63

Giant bone island. Greenspan A, et al. **Skeletal Radiol** 1996 Jan;25(1):67-9 (14 ref.)

Skin and bones: dermatologic conditions with skeletal abnormalities. Harlow CL, et al. **Skeletal Radiol** 1997 Apr; 26(4):201-13 (48 ref.)

Teratogenic effects of vigabatrin in TO mouse fetuses. Abdulrazzaq YM, et al. **Teratology** 1997 Mar;55(3):165-76

Valproic acid-induced somite teratogenesis in the chick embryo: relationship with Pax-1 gene expression. Barnes GL Jr, et al. **Teratology** 1996 Aug;54(2):93-102

Exposure to ethylene oxide during the early zygotic period induces skeletal anomalies in mouse fetuses. Polifka JE, et al. **Teratology** 1996 Jan;53(1):1-9

[Fibroblast growth factor receptors and hereditary abnormalities of bone growth] Bonaventure J, et al. **Arch Pediatr** 1997;4(2 Suppl 2):112s-117s **(Fre)**

[Prenatal diagnosis of orthopedic anomalies] Ganel A, et al. **Harefuah** 1997 May 1;132(9):649-52 (29 ref.) **(Heb)**

[A girl with pancytopenia, short stature and minor skeletal abnormalities] Bueno Lozano O, et al. **An Esp Pediatr** 1997 Apr;46(4):409-10 **(Spa)**

[Translocation (2:4)(46 XY, t (2,4) q31-33; q35) associated with Evans' syndrome in a patient with mental retardation and Aarskog-like phenotype] Cañabate Reche F, et al. **An Esp Pediatr** 1997 May;46(5):499-502 **(Spa)**

[Shwachman's syndrome] Zárate Mondragón FE, et al. **Rev Gastroenterol Mex** 1996 Oct-Dec;61(4):371-5 (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Spatio-temporal self-organization of bone mineral metabolism and trabecular structure of primary bone. Courtin B, et al. **Acta Biotheor** 1995 Dec;43(4):373-86

Estimating diaphyseal length from fragmentary subadult skeletal remains: implications for palaeodemographic reconstructions of a southern Ontario ossuary. Hoppa RD, et al. **Am J Phys Anthropol** 1996 Jul;100(3):341-54

Functional morphology of the postcranium and locomotor behavior of Neosaimiri fieldsi, a Saimiri-like Middle Miocene platyrrhine. Nakatsukasa M, et al. **Am J Phys Anthropol** 1997 Apr;102(4):515-44

Whole body bone, fat and lean mass in children: comparison of three ethnic groups. Nelson DA, et al. **Am J Phys Anthropol** 1997 Jun;103(2):157-62

Skeletal growth of children from the Iron Age site at K2 (South Africa). Steyn M, et al. **Am J Phys Anthropol** 1996 Jul;100(3):389-96

Osteopenia and stable isotope ratios in bone collagen of Nubian female mummies. White CD, et al. **Am J Phys Anthropol** 1997 Jun;103(2):185-99

Some remarks on, and a new case of the rare os intercuneiforme (Dwight). Prescher A. **Anat Anz** 1997 Aug; 179(4):317-20 (24 ref.)

Histo-anatomy of the proximal femur in rats: impact of ovariectomy on bone mass, structure, and stiffness. Bagi CM, et al. **Anat Rec** 1996 Aug;245(4):633-44

Perspectives: a proposed general model of the "mechanostat" (suggestions from a new skeletal-biologic paradigm). Frost HM. **Anat Rec** 1996 Feb;244(2):139-47 (177 ref.)

Comparative study of skeletal response to estrogen depletion at red and yellow marrow sites in rats. Li M, et al. **Anat Rec** 1996 Jul;245(3):472-80

Stereological analysis of bone architecture in the pig zygomatic arch. Teng S, et al. **Anat Rec** 1997 Jun; 248(2):205-13

Neutron anatomy. Bacon GE. **Basic Life Sci** 1996;64:17-27

7th International Congress of Bone Morphometry. Alghero, Sardinia, Italy, October 6-10, 1996. Abstracts. **Bone** 1996 Sep;19(3 Suppl):129S-175S

Bone characteristics and body weight of broilers in different husbandry systems. Tolon B, et al. **Br Poult Sci** 1997 May; 38(2):132-5

Influence of high impact loading on ultrasound bone measurements in children: a cross-sectional report. Daly RM, et al. **Calcif Tissue Int** 1997 May;60(5):401-4

A dynamic modal testing technique for noninvasive assessment of bone-dental implant interfaces. Elias JJ, et al. **Int J Oral Maxillofac Implants** 1996 Nov-Dec; 11(6):728-34

Tissue reaction and material characteristics of four bone substitutes. Jensen SS, et al. **Int J Oral Maxillofac Implants** 1996 Jan-Feb;11(1):55-66

Bone tissue response to commercially pure titanium implants blasted with fine and coarse particles of aluminum oxide. Wennerberg A, et al. **Int J Oral Maxillofac Implants** 1996 Jan-Feb;11(1):38-45

Genetic effects on bone mass and turnover-relevance to black/white differences. Parfitt AM. **J Am Coll Nutr** 1997 Aug;16(4):325-33 (86 ref.)

Fabric and elastic principal directions of cancellous bone are closely related. Odgaard A, et al. **J Biomech** 1997 May; 30(5):487-95

Cancellous bone architecture: advantages of nonorthogonal trabecular alignment under multidirectional joint loading. Pidaparti RM, et al. **J Biomech** 1997 Sep;30(9):979-83

Histomorphometric evaluation of the thin hydroxyapatite layer formed through anodization followed by hydrothermal treatment. Ishizawa H, et al. **J Biomed Mater Res** 1997 May;35(2):199-206

Bone regeneration with resorbable polymeric membranes. III. Effect of poly(L-lactide) membrane pore size on the bone healing process in large defects. Pineda LM, et al. **J Biomed Mater Res** 1996 Jul;31(3):385-94

Heterogeneity of the skeleton: comparison of the trabecular microarchitecture of the spine, the iliac crest, the femur, and the calcaneus. Amling M, et al. **J Bone Miner Res** 1996 Jan;11(1):36-45

Whole body bone, fat, and lean mass in black and white men. Barondess DA, et al. **J Bone Miner Res** 1997 Jun; 12(6):967-71

Trabecular bone morphology from micro-magnetic resonance imaging. Hipp JA, et al. **J Bone Miner Res** 1996 Feb;11(2):286-97

Histomorphometric assessment of bone mass, structure, and remodeling: a comparison between healthy black and white premenopausal women. Parisien M, et al. **J Bone Miner Res** 1997 Jun;12(6):948-57

Method-based differences in the automated analysis of the three-dimensional morphology of trabecular bone. Simmons CA, et al. **J Bone Miner Res** 1997 Jun;12(6):942-7

Changes in quantitative bone histomorphometry in aging healthy men. Clarke BL, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2264-70

Differential effect of gender on the sizes of the bones in the axial and appendicular skeletons [published erratum appears in J Clin Endocrinol Metab 1997 Jul;82(7):2274] Gilsanz V, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1603-7

Comparison of image processing techniques (magnetic resonance imaging, computed tomography scan and ultrasound) for 3D modeling and analysis of the human bones. Mehta BV, et al. **J Digit Imaging** 1997 Aug;10(3 Suppl 1):203-6

Restriction fragment length polymorphism (RFLP) analysis on DNA from human compact bone. Rankin DR, et al. **J Forensic Sci** 1996 Jan;41(1):40-6

Attribution of foot bones to sex and population groups. Smith SL. **J Forensic Sci** 1997 Mar;42(2):186-95

Surface modifications of the Sima de los Huesos fossil humans. Andrews P, et al. **J Hum Evol** 1997 Aug-Sep; 33(2-3):191-217

Sima de los Huesos (Sierra de Atapuerca, Spain). The site. Arsuaga JL, et al. **J Hum Evol** 1997 Aug-Sep; 33(2-3):109-27

Geology and preliminary dating of the hominid-bearing sedimentary fill of the Sima de los Huesos Chamber, Cueva Mayor of the Sierra de Atapuerca, Burgos, Spain. Bischoff JL, et al. **J Hum Evol** 1997 Aug-Sep;33(2-3):129-54

Small mammals from Sima de los Huesos. Cuenca-Bescós G, et al. **J Hum Evol** 1997 Aug-Sep;33(2-3):175-90

The carnivore remains from the Sima de los Huesos Middle Pleistocene site (Sierra de Atapuerca, Spain). García N, et al. **J Hum Evol** 1997 Aug-Sep;33(2-3):155-74

Body proportions in Late Pleistocene Europe and modern human origins. Holliday TW. **J Hum Evol** 1997 May; 32(5):423-48

Mapping of the magnetic-field distribution in cancellous bone. Chung HW, et al. **J Magn Reson B** 1996 Nov; 113(2):172-6

Osteology and skeletal development of Discoglossus sardus (Anura:Discoglossidae). Analía Púgener L, et al. **J Morphol** 1997 Sep;233(3):267-86

Orthodontic retraction into recent and healed extraction sites. A histologic study. Diedrich P, et al. **J Orofac Orthop** 1997; 58(2):90-9 **(Eng, Ger)**

The evolutionary origins of osteoarthritis [letter] Rothschild BM. **J Rheumatol** 1996 Jun;23(6):1116-7

Radiographical evaluation of bone maturation in Japanese black beef cattle. Oishi A, et al. **J Vet Med Sci** 1996 Jun; 58(6):529-35

Quantitation of T2' anisotropic effects on magnetic resonance bone mineral density measurement. Yablonskiy DA, et al. **Magn Reson Med** 1997 Feb;37(2):214-21

Reproducibility of techniques using Archimedes' principle in measuring cancellous bone volume. Zou L, et al. **Med Eng Phys** 1997 Jan;19(1):63-8

In vivo assessment of trabecular bone structure at the distal radius from high-resolution magnetic resonance images. Gordon CL, et al. **Med Phys** 1997 Apr;24(4):585-93

A new method of artificial bone modeling for medical education. Usta A, et al. **Okajimas Folia Anat Jpn** 1996 Aug;73(2-3):143-4

Tracing the identity of the first toolmakers [news] Gibbons A. **Science** 1997 Apr 4;276(5309):32

Correlation between the postmortem stature and the dried limb-bone lengths of Korean adult males. Choi BY, et al. **Yonsei Med J** 1997 Apr;38(2):79-85

[Taxonomy of European and Persian fallow deer on the basis of bone remains in Turkey] Vogler U. **Tierarztl Prax** 1997 Apr;25(2):100-5 (Eng. Abstr.) **(Ger)**

[Interpretation of bone and cartilage magnetic resonance images and their future prospect] Kusaka Y. **Nippon Seikeigeka Gakkai Zasshi** 1996 Dec;70(12):807-16 (26 ref.) **(Jpn)**

BONE AND BONES

BLOOD SUPPLY

Contribution to the vascular origin of the unicameral bone cyst. Gebhart M, et al. **Acta Orthop Belg** 1996 Sep; 62(3):137–43

Scintigraphy and ultrasonography in differentiating osteomyelitis from bone infarction in sickle cell disease. Rifai A, et al. **Acta Radiol** 1997 Jan;38(1):139–43 (12 ref.)

SEM corrosion–casts study of the microcirculation of the flat bones in the rat. Pannarale L, et al. **Anat Rec** 1997 Apr;247(4):462–71

Revascularisation of bone allografts following vascular bundle implantation: an experimental study in rats. Kumta S, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):206–10

The role of microvasculature in normal and perturbed bone healing as revealed by intravital microscopy. Winet H. **Bone** 1996 Jul;19(1 Suppl):39S–57S (73 ref.)

Bone infarcts or chondrosarcomas? The usefulness of MRI [letter] Mattei JP, et al. **Clin Exp Rheumatol** 1996 Mar–Apr; 14(2):220–1

Improved method for examination of microvascular structures in bone tissue. Møller JF, et al. **Clin Orthop** 1997 Jan;(334):15–23

Method for assessment of vascular reactivity in bone: in vitro studies on resistance arteries isolated from porcine cancellous bone. Lundgaard A, et al. **J Orthop Res** 1996 Nov;14(6):962–71

Bone infarction versus infection in sickle cell disease in children. Dalton GP, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):540–4

Producing vascularized bone by heterotopic bone induction and guided tissue regeneration: a silicone membrane–isolated latissimus dorsi island flap in a rat model. Viljanen VV, et al. **J Reconstr Microsurg** 1997 Apr; 13(3):207–14

A new in vivo method for the direct measurement of nutrient artery blood flow. Dunlap JN, et al. **Orthopedics** 1997 Jul; 20(7):613–9

Differentiation of bone infarct from infection in a child in sickle cell disease. Buchanan GR. **Pediatr Infect Dis J** 1996 Aug;15(8):725

Inhibitory effect of hydrocortisone on the blood flow and 45Ca and 3H–proline incorporation into bones of female rats. Kapitola J, et al. **Physiol Res** 1995;44(3):179–84

[Morphologic effect of adrenaline and insulin on bone capillaries after receptor blockade. Functional transmission electron microscopy analysis] Döhler JR, et al. **Langenbecks Arch Chir** 1997;382(3):164–6 (Eng. Abstr.) **(Ger)**

[Drepanocytosis: acute osteomyelitis due to Salmonella and bone infarct. Difficulties for diagnosis] Casanova Matutano C, et al. **An Esp Pediatr** 1997 May;46(5):495–8 **(Spa)**

CHEMISTRY

Determinants of bone and blood lead levels among community–exposed middle–aged to elderly men. The normative aging study. Hu H, et al. **Am J Epidemiol** 1996 Oct 15;144(8):749–59

Age and secular trends in bone lead levels in middle–aged and elderly men: three–year longitudinal follow–up in the Normative Aging Study. Kim R, et al. **Am J Epidemiol** 1997 Oct 1;146(7):586–91

Sex determination of ancient human skeletons using DNA. Stone AC, et al. **Am J Phys Anthropol** 1996 Feb;99(2):231–8

Osteopenia and stable isotope ratios in bone collagen of Nubian female mummies. White CD, et al. **Am J Phys Anthropol** 1997 Jun;103(2):185–99

Isotopic biogeochemistry as a marker of Neandertal diet. Bocherens H. **Anthropol Anz** 1997 Jun;55(2):101–20

Molecular preservation and isotopy of Mesolithic human finds from the Ofnet cave (Bavaria, Germany). Bocherens H, et al. **Anthropol Anz** 1997 Jun;55(2):121–9

Further experience with bone lead content measurements in residents of southern Ontario. Roy MM, et al. **Appl Radiat Isot** 1997 Mar;48(3):391–6

Lead in fingerbone: a tool for retrospective exposure assessment. Börjesson J, et al. **Arch Environ Health** 1997 Mar–Apr;52(2):104–12

Longitudinal relationship between dentin lead levels in childhood and bone lead levels in young adulthood. Kim R, et al. **Arch Environ Health** 1996 Sep–Oct;51(5):375–82

Biochemical markers of skeletal growth in children. Branca F. **Bibl Nutr Dieta** 1996;(53):90–102 (39 ref.)

An automated double staining procedure for bone and cartilage. Miller DM, et al. **Biotech Histochem** 1996 Mar; 71(2):79–83

Preparation of bone samples for DNA extraction: a nuts and bolts approach. Thomas MG, et al. **Biotechniques** 1997 Mar; 22(3):402

Determining mineral content variations in bone using backscattered electron imaging. Bloebaum RD, et al. **Bone** 1997 May;20(5):485–90

Effects of 1– and 6–month spaceflight on bone mass and biochemistry in two humans. Collet P, et al. **Bone** 1997 Jun;20(6):547–51

Expression of bone associated markers by tooth root lining cells, in situ and in vitro. D'Errico JA, et al. **Bone** 1997 Feb;20(2):117–26

Elemental analysis of femoral bone from patients with fractured neck of femur or osteoarthrosis. Helliwell TR, et al. **Bone** 1996 Feb;18(2):151–7

Demonstration of estrogen receptor mRNA in bone using in situ reverse–transcriptase polymerase chain reaction. Hoyland JA, et al. **Bone** 1997 Feb;20(2):87–92

Comparison of the distribution of 3H–alendronate and 3H–etidronate in rat and mouse bones. Masarachia P, et al. **Bone** 1996 Sep;19(3):281–90

Long–term effects of ovariectomy on the mechanical properties and chemical composition of rat bone. Peng ZQ, et al. **Bone** 1997 Mar;20(3):207–12

Ultrastructural localization of alpha–parvalbumin in the epiphyseal plate cartilage and bone of growing rats. Toury R, et al. **Bone** 1996 Sep;19(3):245–53

Bonding of composite to bone: durability and effect of drying time. Baidya P, et al. **Br J Oral Maxillofac Surg** 1996 Oct; 34(5):406–8

Biochemical markers of bone turnover in seronegative spondylarthropathy: relationship to disease activity. MacDonald AG, et al. **Br J Rheumatol** 1997 Jan;36(1):50–3

Total and regional bone mineral content in Spanish professional ballet dancers. Cuesta A, et al. **Calcif Tissue Int** 1996 Mar;58(3):150–4

Improved immunohistochemical staining of osteopontin (OPN) in paraffin–embedded archival bone specimens following antigen retrieval: anti–human OPN antibody recognizes multiple molecular forms. Devoll RE, et al. **Calcif Tissue Int** 1997 Apr;60(4):380–6

X–ray pole figure analysis of apatite crystals and collagen molecules in bone. Sasaki N, et al. **Calcif Tissue Int** 1997 Apr;60(4):361–7

Effect of aging on the amide group of bone matrix, measured by FTIR spectrophotometry, in adult subjects deceased as a result of violent death. Very JM, et al. **Calcif Tissue Int** 1997 Mar;60(3):271–5

Bone markers in osteoporosis and malignancy. Lipton A, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:11–5

Neandertal DNA sequences and the origin of modern humans [see comments] Krings M, et al. **Cell** 1997 Jul 11;90(1):19–30 . Comment in: Cell 1997 Jul 11;90(1):1–3.

Measurement of strontium in serum, urine, bone, and soft tissues by Zeeman atomic absorption spectrometry. D'Haese PC, et al. **Clin Chem** 1997 Jan;43(1):121–8

Cementum, root dentin and bone extracts stimulate chemotactic behavior in cells from periodontal tissue. Ogata Y, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Mar; 116(3):359–65

Mineral changes in a mouse model of osteogenesis imperfecta detected by Fourier transform infrared microscopy. Camacho NP, et al. **Connect Tissue Res** 1996; 35(1–4):259–65

Bone mineralization as studied by small–angle x–ray scattering. Fratzl P, et al. **Connect Tissue Res** 1996; 34(4):247–54 (21 ref.)

The role of type X collagen in endochondral ossification as deduced by Fourier transform infrared microscopy analysis. Paschalis EP, et al. **Connect Tissue Res** 1996; 35(1–4):371–7

Characterization of the apatite crystals of bone and their maturation in osteoblast cell culture: comparison with native bone crystals. Rey C, et al. **Connect Tissue Res** 1996; 35(1–4):343–9

Expression of estrogen receptor beta in rat bone. Onoe Y, et al. **Endocrinology** 1997 Oct;138(10):4509–12

Accumulated body burden and endogenous release of lead in employees of a lead smelter. Fleming DE, et al. **Environ Health Perspect** 1997 Feb;105(2):224–33

Dietary and environmental determinants of blood and bone lead levels in lactating postpartum women living in Mexico City. Hernandez–Avila M, et al. **Environ Health Perspect** 1996 Oct;104(10):1076–82

Osteopenia following total gastrectomy in the rat––state of mineral metabolism and bone histomorphometry. Rümenapf G, et al. **Eur Surg Res** 1997;29(3):209–21

Nitrogen levels in long bones from coffin burials interred for periods of 26–90 years. Jarvis DR. **Forensic Sci Int** 1997 Mar 14;85(3):199–208

cDNA cloning of the murine Pex gene implicated in X–linked hypophosphatemia and evidence for expression in bone. Du L, et al. **Genomics** 1996 Aug 15;36(1):22–8

Influence of specimen preparation on the identification of phospholipids by the phospholipase A2–gold method in mineralizing cartilage and bone. Zini N, et al. **Histochem Cell Biol** 1996 Apr;105(4):283–96

In vivo measurements of lead in fingerbone in active and retired lead smelters. Börjesson J, et al. **Int Arch Occup Environ Health** 1997;69(2):97–105

Dielectric studies of proton transport in air–dried fully calcified and decalcified bone. Marzec E, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):27–31

Relationship between changes of bone mineral content and twelve–minute walking distance in men with chronic obstructive pulmonary disease: a longitudinal study. Nishimura Y, et al. **Intern Med** 1997 Jul;36(7):450–3

Nuragic bone collagen retains its molecular structure. Tedde G, et al. **Ital J Anat Embryol** 1995 Oct–Dec;100(4):195–202

Distribution of matrix metalloproteinases and their inhibitor, TIMP–1, in developing human osteophytic bone. Bord S, et al. **J Anat** 1997 Jul;191 (Pt 1):39–48

Zinc concentration in tissues and performance of weanling pigs fed pharmacological levels of zinc from ZnO, Zn–methionine, Zn–lysine, or ZnSO4. Schell TC, et al. **J Anim Sci** 1996 Jul;74(7):1584–93

Glycosylation of human bone collagen I in relation to lysylhydroxylation and fibril diameter. Bätge B, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):109–15

Bone bonding ability of an apatite–coated polymer produced using a biomimetic method: a mechanical and histological study in vivo. Nagano M, et al. **J Biomed Mater Res** 1996 Aug;31(4):487–94

Enhanced cell attachment to anorganic bone mineral in the presence of a synthetic peptide related to collagen. Qian JJ, et al. **J Biomed Mater Res** 1996 Aug;31(4):545–54

Bone morphogenetic protein: the molecularization of skeletal system development [editorial; comment] Urist MR. **J Bone Miner Res** 1997 Mar;12(3):343–6 (58 ref.). Comment on: J Bone Miner Res 1997 Mar;12(3):332–42.

Bone acidic glycoprotein–75 self–associates to form macromolecular complexes in vitro and in vivo with the potential to sequester phosphate ions. Gorski JP, et al. **J Cell Biochem** 1997 Mar 15;64(4):547–64

Separation and identification of metals in human bones, placenta and milk and in air by adsorption and ion–exchange thin–layer chromatography. Baranowska I, et al. **J Chromatogr A** 1996 Feb 19;725(1):199–202

Extraction and measurement of pamidronate from bone samples using automated pre–column derivatization, high–performance liquid chromatography and fluorescence detection. King LE, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):325–30

Rapid method for the isolation of hydroxylysylpyridinoline and lysylpyridinoline from concentrated bone hydrolysates by liquid chromatographic techniques. Lamprecht G. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):297–304

Amorphous calcium phosphate: the contention of bone. Boskey AL. **J Dent Res** 1997 Aug;76(8):1433–6 (32 ref.)

Pre–osteoblastic proliferation assessed with BrdU in undecalcified, Epon–embedded adult rat trabecular bone. Barou O, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1189–95

ADRF differential cross polarization spectroscopy of synthetic calcium phosphates and bone mineral. Ramanathan C, et al. **J Magn Reson** 1997 Jul;127(1):26–35

In vivo evaluation of a resorbable osteoinductive composite as a graft substitute for lumbar spinal fusion. Boden SD, et al. **J Spinal Disord** 1997 Feb;10(1):1–11

Determination of aluminium in samples from bone and liver of elderly Norwegians. Hongve D, et al. **J Trace Elem Med Biol** 1996 Apr;10(1):6–11

Osteoclasts in normal and adjuvant arthritis bone tissues express the mRNA for both type I and II interleukin–1 receptors. Xu LX, et al. **Lab Invest** 1996 Nov;75(5):677–87

Theoretical analysis of error propagation in triple–energy absorptiometry: application to measurement of lead in bone in vivo. Mourtada FA, et al. **Med Phys** 1997 Jun; 24(6):925–7

Staining of bone aluminium: comparison between aluminon and solochrome azurine and their correlation with bone aluminium content. Fernández–Martín JL, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:80–5

In vivo bone lead measurement in suburban teenagers. Hoppin JA, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):365–70

The feasibility of measuring bone uranium concentrations in vivo using source excited K x–ray fluorescence. O'Meara JM, et al. **Phys Med Biol** 1997 Jun;42(6):1109–20

Heme compounds in dinosaur trabecular bone. Schweitzer MH, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6291–6

Effects of hemodialysis on bone mineral as followed by using neutron activation analysis. Foltýnová V, et al. **Sb Lek** 1996;97(3):343–50

Analytical requirements for biochemical bone marker assays. Dessauer A. **Scand J Clin Lab Invest Suppl** 1997;227:84–9 (3 ref.)

Standardization of marker assays––pyridinoline/deoxypyridinoline. Kent GN. **Scand J Clin Lab Invest Suppl** 1997;227:73–9 (29 ref.)

Biochemical markers as surrogates in clinical trials in patients with metastatic bone disease and osteoporosis. Schlosser K, et al. **Scand J Clin Lab Invest Suppl** 1997;227:21–8

Clinical applications of L–line X–ray fluorescence to estimate bone lead values in lead–poisoned young children and in children, teenagers, and adults from lead–exposed and non–lead–exposed suburban communities in the United States. Rosen JF. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):211–8

Bone metal mobilization induced by long–term desferrioxamine B therapy in continuous ambulatory peritoneal dialysis. Romero RA, et al. **Transplant Proc** 1996 Dec;28(6):3380–1

Accumulation of cadmium and lead in red deer and wild boar at the Veluwe, The Netherlands. Kuiters AT. **Vet Q** 1996;18 Suppl 3:S134–5

[Detection of nicotine in prehistorical skeletal remains of South China] Balabanova S, et al. **Anthropol Anz** 1996 Dec; 54(4):341–53 (Eng. Abstr.) **(Ger)**

[Correlations between cribra orbitalia, archeometric findings on the skeleton and habitat conditions] Schutkowski H, et al. **Anthropol Anz** 1997 Jun;55(2):155–66 (Eng. Abstr.) **(Ger)**

[Biogenic decomposition of bone collagens] Turban–Just S. **Anthropol Anz** 1997 Jun;55(2):131–41 (Eng. Abstr.) **(Ger)**

[Serum proteins in human skeletal remains] Wiechmann I, et al. **Anthropol Anz** 1997 Jun;55(2):143–6 (Eng. Abstr.) **(Ger)**

[A comparison of trace element and isotope analysis in archeological bones (exemplified by a medieval bone series from Weingarten, Germany)] Wiedemann FB, et al. **Anthropol Anz** 1997 Jun;55(2):147–54 (Eng. Abstr.) **(Ger)**

[Determination of fluorides in urine, serum and bone samples using a special fluoride electrode] Irlweck K, et al. **Mikrochim Acta** 1977;(1–2 Pt 2):25–31 **(Ger)**

[Determination of tetracycline in bones, mechanically separated bones and meat using HPLC and microbiological plating methods] Korimová L, et al. **Vet Med (Praha)** 1997 May;42(5):129–31 (Eng. Abstr.) **(Slo)**

[Changes in calcium, phosphate, magnesium and sodium content in bones of ovariectomized rats] de Bortoli MA, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):38–41 (Eng. Abstr.) **(Spa)**

CYTOLOGY

Sampling location in cortical bone histology. Drusini AG. **Am J Phys Anthropol** 1996 Aug;100(4):609–10

A probabilistic approach to measure the strength of bone cell adhesion to chemically modified surfaces. Rezania A, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):190–203

Polymethylmethacrylate composites: disturbed bone formation at the surface of bioactive glass and hydroxyapatite. Heikkilä JT, et al. **Biomaterials** 1996 Sep; 17(18):1755–60

Microscopical aspects of failure in osseointegrated dental implants: a report of five cases. Piattelli A, et al. **Biomaterials** 1996 Jun;17(12):1235–41

Histomorphometric analysis of the response of rat tibiae to shape memory alloy (nitinol). Takeshita F, et al. **Biomaterials** 1997 Jan;18(1):21–5

Proliferating cells in the primary spongiosa express osteoblastic phenotype in vitro. Onyia JE, et al. **Bone** 1997 Feb;20(2):93–100

Involvement of different ion channels in osteoblasts' and osteocytes' early responses to mechanical strain. Rawlinson SC, et al. **Bone** 1996 Dec;19(6):609–14

Subtle differences in the mitogenic effects of recombinant human bone morphogenetic proteins –2 to –7 on DNA synthesis on primary bone–forming cells and identification of BMP–2/4 receptor. Mayer H, et al. **Calcif Tissue Int** 1996 Apr;58(4):249–55

Human osteoclast–like cells in primary culture. Lambrecht JT, et al. **Clin Anat** 1996;9(1):41–5

The effects of orbital spaceflight on bone histomorphometry and messenger ribonucleic acid levels for bone matrix proteins and skeletal signaling peptides in ovariectomized growing rats. Cavolina JM, et al. **Endocrinology** 1997 Apr; 138(4):1567–76

Endosteal human bone cells (EBC) show age–related activity in vitro. Battmann A, et al. **Exp Clin Endocrinol Diabetes** 1997;105(2):98–102

Development of a new method for obtaining osteoclasts from endosteal surfaces. May LG, et al. **In Vitro Cell Dev Biol Anim** 1996 May;32(5):269–78

The structure of bone tissues and the cellular control of their deposition. Marotti G. **Ital J Anat Embryol** 1996 Oct–Dec; 101(4):25–79 (178 ref.)

Deformation–induced hierarchical flows and drag forces in bone canaliculi and matrix microporosity. Mak AF, et al. **J Biomech** 1997 Jan;30(1):11–8

In vitro growth of human adult bone–derived cells on hydroxyapatite plasma–sprayed coatings. Anselme K, et al. **J Biomed Mater Res** 1997 Feb;34(2):247–59

Biocompatibility testing of NiTi screws using immunohistochemistry on sections containing metallic implants. Berger–Gorbet M, et al. **J Biomed Mater Res** 1996 Oct;32(2):243–8

Evaluation of signal transduction mechanisms for the mitogenic effects of prostaglandin E2 in normal human bone cells in vitro. Baylink TM, et al. **J Bone Miner Res** 1996 Oct;11(10):1413–8

Growth kinetics, self–renewal, and the osteogenic potential of purified human mesenchymal stem cells during extensive subcultivation and following cryopreservation. Bruder SP, et al. **J Cell Biochem** 1997 Feb;64(2):278–94

Osteogenic differentiation of purified, culture–expanded human mesenchymal stem cells in vitro. Jaiswal N, et al. **J Cell Biochem** 1997 Feb;64(2):295–312

Requirement of distal and proximal promoter sequences for chromatin organization of the osteocalcin gene in bone–derived cells. Montecino M, et al. **J Cell Biochem** 1996 Nov 1;63(2):221–8

State of methylation of the human osteocalcin gene in bone–derived and other types of cells. Ryhänen S, et al. **J Cell Biochem** 1997 Sep 1;66(3):404–12

Effects of cell culture time and bone matrix exposure on calmodulin content and ATP–dependent cell membrane acid transport in avian osteoclasts and macrophages. Williams JP, et al. **J Cell Physiol** 1996 Dec;169(3):411–9

Embedding of bone samples in methylmethacrylate: an improved method suitable for bone histomorphometry, histochemistry, and immunohistochemistry. Erben RG. **J Histochem Cytochem** 1997 Feb;45(2):307–13

Expression of osteoblastic markers in cultured human bone and fracture callus cells. Mörike M, et al. **J Mol Med** 1995 Nov;73(11):571–5

Relationship between bone growth rate and hypertrophic chondrocyte volume in New Zealand white rabbits of varying ages. Kuhn JL, et al. **J Orthop Res** 1996 Sep; 14(5):706–11

Bone extracellular matrix induces homeobox proteins independent of androgens: possible mechanism for androgen–independent growth in human prostate cancer cells. Robbins SE, et al. **Prostate** 1996 Dec;29(6):362–70

Cytokine regulation of bone cell differentiation. Alsina M, et al. **Vitam Horm** 1996;52:63–98 (187 ref.)

[Biological test for menopausal osteoporosis] Klein B, et al. **Harefuah** 1997 Apr 1;132(7):449–51, 528 (Eng. Abstr.) **(Heb)**

DRUG EFFECTS

Rectal steroids suppress bone formation in patients with colitis. Robinson RJ, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):201–4

Stimulative effects of gusuibu (Drynaria baronii) injection on chick embryo bone primordium calcification in vitro. Ma KC, et al. **Am J Chin Med** 1996;24(1):77–82

Increased sensitivity to 1,25(OH)2D3 in bone from genetic hypercalciuric rats. Krieger NS, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C130–5

Cortical bone growth and maturational changes in dwarf rats induced by recombinant human growth hormone. Martinez DA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E51–9

Effects of caffeine on bone cells and bone development in fast–growing rats. Wink CS, et al. **Anat Rec** 1996 Sep; 246(1):30–8

Effect of a growth hormone treatment on bone orthotropic elasticity in dwarf rats. Kohles SS, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):77–85

Bone and tissue changes following prostaglandin therapy in neonates. Kaufman MB, et al. **Ann Pharmacother** 1996 Mar; 30(3):269–74, 277 (29 ref.)

The menopause and the skeleton: key issues. Kanis JA. **Baillieres Clin Obstet Gynaecol** 1996 Sep;10(3):469–81 (23 ref.)

Heparin fails to potentiate the effects of IL–1 beta–mediated bone resorption of fetal rat long bones in vitro. Panagakos FS, et al. **Biochimie** 1995;77(12):915–8

Effects of boron on growing pullets. Wilson JH, et al. **Biol Trace Elem Res** 1997 Mar;56(3):287–94

A histomorphometric comparison of the effects of heparin and low–molecular–weight heparin on cancellous bone in rats. Muir JM, et al. **Blood** 1997 May 1;89(9):3236–42

Effect of antiandrogens casodex and epitestosterone on bone composition in mice. Broulik PD, et al. **Bone** 1997 May; 20(5):473–5

Effects of prostaglandin E2 and F2 alpha on the skeleton of osteopenic ovariectomized rats. Ma YF, et al. **Bone** 1995 Dec;17(6):549–54

No loss of biomechanical effects after withdrawal of short–term PTH treatment in an aged, osteopenic, ovariectomized rat model. Mosekilde L, et al. **Bone** 1997 May;20(5):429–37

Growth hormone is not able to counteract osteopenia of rat cortical bone induced by glucocorticoid with protracted effect. Ortoft G, et al. **Bone** 1995 Dec;17(6):543–48

A comparison of the effects of two anabolic agents (fluoride and PTH) on ash density and bone strength assessed in an osteopenic rat model. Søgaard CH, et al. **Bone** 1997 May;20(5):439–49

Effects of long–term diabetes and/or high–dose 17 beta–estradiol on bone formation, bone mineral density, and strength in ovariectomized rats. Verhaeghe J, et al. **Bone** 1997 May;20(5):421–8

Effects of 17 beta–estradiol administration on cortical and cancellous bone of ovariectomized rats with and without hypophysectomy. Yeh JK, et al. **Bone** 1997 May; 20(5):413–20

Skeletal changes after long–term therapy with synthetic retinoids [letter] Herrmann G, et al. **Br J Dermatol** 1997 Mar;136(3):469–70

Aminohexane bisphosphonate suppresses bone turnover in postmenopausal women more rapidly than oestrogen–gestagen therapy. Tobias JH, et al. **Br J Rheumatol** 1996 Jul;35(7):636–41

Ovarian status influences the skeletal effects of tamoxifen in adult rats. Sibonga JD, et al. **Breast Cancer Res Treat** 1996;41(1):71–9

Acute effects of ethanol on mineral metabolism and trabecular bone in Sprague–Dawley rats. Diez A, et al. **Calcif Tissue Int** 1997 Aug;61(2):168–71

Effect of lead on bone development and bone mass: a morphometric, densitometric, and histomorphometric study in growing rats. Escribano A, et al. **Calcif Tissue Int** 1997 Feb;60(2):200–3

Clodronate prevents bone loss in aged ovariectomized rats. Kippo K, et al. **Calcif Tissue Int** 1997 Aug;61(2):151–7

The effect of intranasal salmon calcitonin on postmenopausal bone turnover as assessed by biochemical markers: evidence of maximal effect after 8 weeks of continuous treatment. Kraenzlin ME, et al. **Calcif Tissue Int** 1996 Apr; 58(4):216–20

Supraphysiologic levels of testosterone affect cancellous and cortical bone in the young female cynomolgus monkey. Lundon K, et al. **Calcif Tissue Int** 1997 Jan;60(1):54–62

Effects of short–term treatment with clodronate on parameters of bone metabolism and their diurnal variation. Sairanen S, et al. **Calcif Tissue Int** 1997 Feb;60(2):160–3

Skeletal effects of calcitonin treatment and withdrawal in ovariectomized rats. Shen Y, et al. **Calcif Tissue Int** 1996 Apr;58(4):263–7

Fluoride treatment increased serum IGF–1, bone turnover, and bone mass, but not bone strength, in rabbits. Turner CH, et al. **Calcif Tissue Int** 1997 Jul;61(1):77–83

Prevention and management of osteoporosis: consensus statements from the Scientific Advisory Board of the Osteoporosis Society of Canada. 3. Effects of ovarian hormone therapy on skeletal and extraskeletal tissues in women [see comments] Josse RG. **Can Med Assoc J** 1996 Oct 1;155(7):929–34 (28 ref.). Comment in: Can Med Assoc J 1997 Jun 1;156(11):1530, 1532.

Basic fibroblast growth factor promotes bone ingrowth in porous hydroxyapatite. Wang JS, et al. **Clin Orthop** 1996 Dec;(333):252–60

Effect of estrogens on bone and other systems and hormonal substitute treatment. Ribot CA, et al. **Curr Opin Rheumatol** 1997 Jul;9(4):362–9 (82 ref.)

Effect of six–month treatment with Ukrain on early osteoporosis induced by ovariectomy in rats. Part I: Preliminary studies of bone parameters. Jagiello–Wojtowicz E, et al. **Drugs Exp Clin Res** 1996; 22(3–5):173–6

Acute effect of prolactin on bone 45Ca accumulation in rats. Krishnamra N, et al. **Endocr J** 1997 Apr;44(2):257–64

Ascorbic acid alters collagen integrins in bone culture. Ganta DR, et al. **Endocrinology** 1997 Sep;138(9):3606–12

Biosynthetic human parathyroid hormone (1–34) effects on bone quality in aged ovariectomized rats. Sato M, et al. **Endocrinology** 1997 Oct;138(10):4330–7

17 beta–Estradiol and tamoxifen prevent the over–glycosylation of rat trabecular bone collagen induced by ovariectomy. Moro L, et al. **Eur J Clin Chem Clin Biochem** 1997 Jan;35(1):29–33

Effects of short–term exposure to high–dose inhaled corticosteroids on novel markers of bone metabolism. Grove A, et al. **Eur J Clin Pharmacol** 1996;50(4):275–7

The effects of dietary boron on bone strength in rats. Chapin RE, et al. **Fundam Appl Toxicol** 1997 Feb;35(2):205–15

Organizational–activational concept revisited: sexual differentiation in an atherinomorph teleost. Rosa–Molinar E, et al. **Horm Behav** 1996 Dec;30(4):563–75

A comparison of the penetration of cefuroxime and cephamandole into bone, fat and haematoma fluid in patients undergoing total hip replacement. Lovering AM, et al. **J Antimicrob Chemother** 1997 Jul;40(1):99–104

Calcium buffering is required to maintain bone stiffness in saline solution. Gustafson MB, et al. **J Biomech** 1996 Sep; 29(9):1191–4

Porous bioactive glass and hydroxyapatite ceramic affect bone cell function in vitro along different time lines. El–Ghannam A, et al. **J Biomed Mater Res** 1997 Aug; 36(2):167–80

Glass peek composite promotes proliferation and osteocalcin production of human osteoblastic cells. Lin TW, et al. **J Biomed Mater Res** 1997 Aug;36(2):137–44

Effect of (poly)–L–lactic acid on the proliferation and differentiation of primary bone cells in vitro [published erratum appears in J Biomed Mater Res 197 Jun 5;35(3):407–8] Otto TE, et al. **J Biomed Mater Res** 1996 Dec;32(4):513–8

Tartronates: a new generation of drugs affecting bone metabolism. Caselli G, et al. **J Bone Miner Res** 1997 Jun; 12(6):972–81

Serum N–terminal osteocalcin is a good indicator for estimating responders to hormone replacement therapy in postmenopausal women. Chen JT, et al. **J Bone Miner Res** 1996 Nov;11(11):1784–92

Post–transplantation bone disease: the role of immunosuppressive agents and the skeleton. Epstein S. **J Bone Miner Res** 1996 Jan;11(1):1–7 (73 ref.)

Normal parathyroid hormone responsiveness of bone–derived cells from a patient with pseudohypoparathyroidism. Ish–Shalom S, et al. **J Bone Miner Res** 1996 Jan;11(1):8–14

An acute intake of phosphate increases parathyroid hormone secretion and inhibits bone formation in young women. Kärkkäinen M, et al. **J Bone Miner Res** 1996 Dec; 11(12):1905–12

Prostaglandin E2 (PGE2) and risedronate was superior to PGE2 alone in maintaining newly added bone in the cortical bone site after withdrawal in older intact rats. Ma YF, et al. **J Bone Miner Res** 1997 Feb;12(2):267–75

Osteogenic actions of phenytoin in human bone cells are mediated in part by TGF–beta 1. Nakade O, et al. **J Bone Miner Res** 1996 Dec;11(12):1880–8

Prostaglandin E2 increases the skeletal response to mechanical loading. Tang LY, et al. **J Bone Miner Res** 1997 Feb;12(2):276–82

Lack of evidence for an increase in interleukin–6 expression in adult murine bone, bone marrow, and marrow stromal cell cultures after ovariectomy. Vargas SJ, et al. **J Bone Miner Res** 1996 Dec;11(12):1926–34

Effects of recombinant human growth hormone and insulin–like growth factor–I, with or without 17 beta–estradiol, on bone and mineral homeostasis of aged ovariectomized rats. Verhaeghe J, et al. **J Bone Miner Res** 1996 Nov;11(11):1723–35

Clinical review 83: Mechanisms of glucocorticoid action in bone: implications to glucocorticoid–induced osteoporosis. Canalis E. **J Clin Endocrinol Metab** 1996 Oct;81(10):3441–7 (85 ref.)

24,25 Dihydroxyvitamin D supplementation corrects hyperparathyroidism and improves skeletal abnormalities in X–linked hypophosphatemic rickets—a clinical research

center study. Carpenter TO, et al.
J Clin Endocrinol Metab 1996 Jun;81(6):2381–8

Skeletal effects of cyclic recombinant human growth hormone and salmon calcitonin in osteopenic postmenopausal women. Holloway L, et al.
J Clin Endocrinol Metab 1997 Apr;82(4):1111–7

Antiresorptive therapy in hyperthyroid patients: longitudinal changes in bone and mineral metabolism. Jódar E, et al.
J Clin Endocrinol Metab 1997 Jun;82(6):1989–94

Invited review of a workshop: anabolic hormones in bone: basic research and therapeutic potential. Margolis RN, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):872–7 (60 ref.)

Short-term effects of growth hormone and insulin-like growth factor I on cancellous bone in rhesus macaque monkeys. Sass DA, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1202–9

Augmented hepatic and skeletal thyromimetic effects of tiratricol in comparison with levothyroxine. Sherman SI, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2153–8

Hormone therapy and phytoestrogens. Lien LL, et al.
J Clin Pharm Ther 1996 Apr;21(2):101–11 (27 ref.)

Sixteen weeks of hexarelin therapy in aged dogs: effects on the somatotropic axis, muscle morphology, and bone metabolism. Cella SG, et al.
J Gerontol A Biol Sci Med Sci 1996 Nov;51(6):B439–47

Bisphosphonates spearhead new approach to treating bone metastases [news] Bankhead C. **J Natl Cancer Inst** 1997 Jan 15;89(2):115–6

Vitamin C supplementation does not modify bone mineral content or mineral absorption in growing pigs. Pointillart A, et al. **J Nutr** 1997 Aug;127(8):1514–8

Dietary lipids modulate bone prostaglandin E2 production, insulin-like growth factor-I concentration and formation rate in chicks. Watkins BA, et al. **J Nutr** 1997 Jun; 127(6):1084–91

Acute and long-term effects of gastrin on muscle and bone calcium uptake in rats. Krishnamra N, et al.
J Nutr Sci Vitaminol (Tokyo) 1995 Dec;41(6):687–97

Effect of long-term alcohol administration on bone metabolism in rats. Yamamoto A, et al.
J Nutr Sci Vitaminol (Tokyo) 1997 Jun;43(3):369–75

Distribution of clodronate in the bone of adult rats and its effects on trabecular and cortical bone. Osterman T, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1051–6

Effects of oral doxycycline administration on histomorphometry and dynamics of subchondral bone in a canine model of osteoarthritis. Yu LP Jr, et al.
J Rheumatol 1996 Jan;23(1):137–42

Skeletal response to intermittent calcitriol therapy in secondary hyperparathyroidism. Salusky IB, et al.
Kidney Int Suppl 1996 Jan;53:S135–9 (45 ref.)

High-dose inhaled steroids in asthmatic children [letter; comment] Lipworth BJ, et al. **Lancet** 1996 Sep 21; 348(9030):820; discussion 821. Comment on: Lancet 1996 Jul 6;348(9019):27–9.

The effects of acid glycosaminoglycans on neonatal calvarian cultures—a role of keratan sulfate in Morquio syndrome? Fang-Kircher SG, et al. **Life Sci** 1997;61(8):771–5

Suppressed bone induction by follistatin in spontaneously hypercholesterolemic rat bone. Funaba M, et al.
Life Sci 1997;61(6):653–8

Bone histomorphometry of ovariectomized or orchiectomized rats fed a moderately magnesium-deficient fructose diet and treated with exogenous oestrogen or testosterone. Koh ET, et al. **Magnes Res** 1996 Mar; 9(1):13–21

Bone effects of transdermal hormone replacement therapy in postmenopausal women as evaluated by means of ultrasound: an open one-year prospective study. de Aloysio D, et al. **Maturitas** 1997 May;27(1):61–8

Aluminium toxicity: its relationship with bone and iron metabolism. Cannata Andía JB. **Nephrol Dial Transplant** 1996;11 Suppl 3:69–73 (75 ref.)

Effects of inhaled corticosteroids on bone. Bootsma GP, et al. **Neth J Med** 1997 Jun;50(6):254–60 (70 ref.)

Skeletal effects of estrogen analogs. Lindsay R, et al.
Osteoporos Int 1997;7 Suppl 1:S40–2 (22 ref.)

Increase of bone mass and mechanical strength in rats after treatment with a novel bisphosphonate, YM175, for two years. Motoie H, et al. **Pharmacol Toxicol** 1997 Jul; 81(1):42–7

Possible bone-preserving capacity of high-dose intramuscular depot estrogen as compared to orchidectomy in the treatment of patients with prostatic carcinoma. Carlström K, et al. **Prostate** 1997 May 15;31(3):193–7

Impact on bone of thyroid hormone therapy. Lauwers A, et al. **Rev Rhum Engl Ed** 1997 Feb;64(2):112–9 (38 ref.)

Measures for detecting systemic bioactivity with inhaled and intranasal corticosteroids. Lipworth BJ, et al. **Thorax** 1997 May;52(5):476–82 (49 ref.)

Iron deposition at mineralization fronts and osteoid formation following chronic cadmium exposure in ovariectomized rats. Hiratsuka H, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):348–56

The age-related difference in bone changes in rats induced by recombinant human granulocyte colony-stimulating factor. Suzuki M, et al. **Toxicol Pathol** 1997 Mar-Apr; 25(2):144–9

Skeletal changes in multiparous, nulliparous and ovariectomized mice fed either a nutrient-sufficient or -deficient diet containing cadmium. Whelton BD, et al.
Toxicology 1997 Apr 30;119(2):103–21

The morphometric study of the 19-day chicken embryo skeleton (gallus domesticus). Pageze L, et al.
Vet Hum Toxicol 1996 Aug;38(4):299–301

Importance of dietary fat in modulating PGE2 responses and influence of vitamin E on bone morphometry. Watkins BA, et al. **World Rev Nutr Diet** 1997;82:250–9 (30 ref.)

[New drugs with positive effects on bones] Zofková I, et al. **Cas Lek Cesk** 1997 Jul 30;136(15):459–63 (74 ref.) (Eng. Abstr.) **(Cze)**

[Bioavailability and bone toxicity of barium chloride by chronic administration in rats] Constant H, et al.
Ann Pharm Fr 1996;54(6):263–7 (Eng. Abstr.) **(Fre)**

[The dynamics of bone defect healing after the implantation of collagen and hydroxyapatite complexes (an experimental morphological study)] Grigor'ian AS, et al.
Stomatologiia (Mosk) 1996;75(5):13–6 (Eng. Abstr.) **(Rus)**

[Effect of trental on collagen proteolysis in experimental aseptic infarction of the lone bone] Magomedov S, et al.
Ukr Biokhim Zh 1996 Sep-Oct;68(5):69–76 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Chondrogenic cell subpopulation of chick embryonic calvarium: isolation by peanut agglutinin affinity chromatography and in vitro characterization. Stringa E, et al. **Anat Embryol (Berl)** 1996 Nov;194(5):427–37

Chemical and X-ray analysis of fluoride, phosphorus, and calcium in human foetal blood and hard tissues. Montherrat-Carret L, et al. **Arch Oral Biol** 1996 Dec; 41(12):1169–78

Isolation of cells from ovine fetal long bone and characterization of their osteoblastic activities during in vitro mineralization. Collignon H, et al.
Arch Physiol Biochem 1997 Apr;105(2):158–66

An automated double staining procedure for bone and cartilage. Miller DM, et al. **Biotech Histochem** 1996 Mar; 71(2):79–83

Bone morphogenesis and modeling: soluble signals sculpt osteosomes in the solid state [comment] Reddi AH.
Cell 1997 Apr 18;89(2):159–61 (15 ref.). Comment on: Cell 1997 Apr 18;89(2):309–19.

Mice lacking tartrate-resistant acid phosphatase (Acp 5) have disrupted endochondral ossification and mild osteopetrosis. Hayman AR, et al. **Development** 1996 Oct;122(10):3151–62

The Bmp8 gene is expressed in developing skeletal tissue and maps near the Achondroplasia locus on mouse chromosome 4. DiLeone RJ, et al. **Genomics** 1997 Feb 15; 40(1):196–8

Skeleton pattern and joint formation in chorioallantoic grafts lacking the anterior or posterior necrotic zones. Rizgeliene R. **J Anat** 1996 Dec;189 (Pt 3):601–8

Primary structure and tissue distribution of FRZB, a novel protein related to Drosophila frizzled, suggest a role in skeletal morphogenesis. Hoang B, et al. **J Biol Chem** 1996 Oct 18;271(42):26131–7

Effects of osteogenic protein-1 (OP-1, BMP-7) on bone matrix protein expression by fetal rat calvarial cells are differentiation stage specific. Li IW, et al.
J Cell Physiol 1996 Oct;169(1):115–25

Overexpression of BMP-2 and BMP-4 alters the size and shape of developing skeletal elements in the chick limb. Duprez D, et al. **Mech Dev** 1996 Jul;57(2):145–57

The ERR-1 orphan receptor is a transcriptional activator expressed during bone development. Bonnelye E, et al.
Mol Endocrinol 1997 Jun;11(7):905–16

Semaphorin III is needed for normal patterning and growth of nerves, bones and heart. Behar O, et al. **Nature** 1996 Oct 10;383(6600):525–8

Requirement of the paraxis gene for somite formation and musculoskeletal patterning. Burgess R, et al. **Nature** 1996 Dec 12;384(6609):570–3

Abnormal skeletal patterning in embryos lacking a single Cbp allele: a partial similarity with Rubinstein-Taybi syndrome. Tanaka Y, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10215–20

Metacarpal growth and systemic markers of bone metabolism in the ovine fetus. Collignon H, et al.
Reprod Fertil Dev 1996;8(2):287–95

[Bone brephoplasty in the treatment of periodontitis patients] Sulimov AF, et al. **Stomatologiia (Mosk)** 1996;Spec No:80 **(Rus)**

ENZYMOLOGY

Comparison of total alkaline phosphatase and three assays for bone-specific alkaline phosphatase in childhood and adolescence. Rauch F, et al. **Acta Paediatr** 1997 Jun; 86(6):583–7

Serum osteocalcin, total and bone-specific alkaline phosphatase following isolated tibial shaft fracture. Bowles SA, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):196–200

Regulation and properties of bone alkaline phosphatase during vitamin C deficiency in guinea pigs. Mahmoodian F, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):86–96

Effect of a low-calcium environment on alkaline phosphatase activity in embryonic rat calvarial bone cells in culture. Yoshimura Y, et al. **Arch Oral Biol** 1996 Jan;41(1):41–5

Comparative studies of rat recombinant purple acid phosphatase and bone tartrate-resistant acid phosphatase. Ek-Rylander B, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):305–11

Effects of alkaline phosphatase on bone healing around plasma-sprayed titanium implants: a pilot study in rabbits. Piattelli A, et al. **Biomaterials** 1996 Jul;17(14):1443–9

Production of collagenase by human osteoblasts and osteoclasts in vivo. Bord S, et al. **Bone** 1996 Jul;19(1):35–40

Alkaline phosphatase bone isoenzyme and osteocalcin in the serum of hyperthyroid cats. Archer FJ, et al.
Can Vet J 1996 Dec;37(12):735–9

Prostate carcinoma staging. Clinical utility of bone alkaline phosphatase in addition to prostate specific antigen. Morote J, et al. **Cancer** 1996 Dec 1;78(11):2374–8

Immunoadsorption assay for bone alkaline phosphatase compared with wheat germ agglutinin precipitation assay in serum from (pre)pubertal girls. Bouman AA, et al.
Clin Chem 1996 Dec;42(12):1970–4

Different age-related trends of bone and nonbone forms of alkaline phosphatase in Chinese men and women. Hsu SH, et al. **Clin Chem** 1997 Jan;43(1):186–8

More on total and bone-specific alkaline phosphatase [letter] Withold W. **Clin Chem** 1997 Sep;43(9):1670–2

Comparison of total and bone-specific alkaline phosphatase in patients with nonskeletal disorder or metabolic bone diseases. Woitge HW, et al. **Clin Chem** 1996 Nov; 42(11):1796–804

Assessment of the performance of a capture immunoassay for the bone isoform of alkaline phosphatase in serum. Milligan TP, et al. **Clin Chim Acta** 1997 Jul 25; 263(2):165–75

Comparison of bone and total alkaline phosphatase activity on bone turnover during menopause and in patients with established osteoporosis. Takahashi M, et al.
Clin Endocrinol (Oxf) 1997 Aug;47(2):177–83

Enzymes in mineralizing systems: state of the art. Golub EE.
Connect Tissue Res 1996;35(1–4):183–8 (66 ref.)

Bone alkaline phosphatase measured with a new immunoradiometric assay in patients with metabolic bone diseases. Gonnelli S, et al. **Eur J Clin Invest** 1996 May; 26(5):391–6

Expression of nitric oxide synthase isoforms in bone and bone cell cultures. Helfrich MH, et al. **J Bone Miner Res** 1997 Jul;12(7):1108–15

Different responses of bone alkaline phosphatase isoforms during recombinant insulin-like growth factor-I (IGF-I) and during growth hormone therapy in adults with growth hormone deficiency. Magnusson P, et al.
J Bone Miner Res 1997 Feb;12(2):210–20

Growth hormone (GH) treatment of GH-deficient children increases serum levels of insulin-like growth factors (IGFs), IGF-binding protein-3 and -5, and bone alkaline phosphatase isoenzyme. Ono T, et al.
J Clin Endocrinol Metab 1996 Jun;81(6):2111–6

Serum bone alkaline phosphatase isoenzyme levels in normal children and children with growth hormone (GH) deficiency: a potential marker for bone formation and response to GH therapy. Tobiume H, et al.
J Clin Endocrinol Metab 1997 Jul;82(7):2056–61

Hypophosphatasia: levels of bone alkaline phosphatase immunoreactivity in serum reflect disease severity. Whyte MP, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2142–8

Fluoride at mitogenic doses induces a sustained activation of p44mapk, but not p42mapk, in human TE85 osteosarcoma cells. Wu LW, et al.
J Clin Endocrinol Metab 1997 Apr;82(4):1126–35

Dependence of divalent metal ions on phosphotransferase activity of osseous plate alkaline phosphatase. Ciancaglini P, et al. **J Inorg Biochem** 1997 Apr;66(1):51–5

Bone alkaline phosphatase in rheumatoid arthritis: a longitudinal study. Beyeler C, et al. **J Rheumatol** 1996 Feb; 23(2):241–4

Ca-ATPase and bone cell mineralization. Abramowitz J, et al. **Miner Electrolyte Metab** 1996;22(5–6):336–44 (101 ref.)

Low serum levels of alkaline phosphatase of bone origin: a good marker of adynamic bone disease in haemodialysis patients. Couttenye MM, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1065–72

Bone alkaline phosphatase isoenzyme in renal osteodystrophy. Jarava C, et al.
Nephrol Dial Transplant 1996;11 Suppl 3:43–6

Assessment of renal osteodystrophy in dialysis patients: use of bone alkaline phosphatase, bone mineral density and parathyroid ultrasound in comparison with bone histology. Fletcher S, et al. **Nephron** 1997;75(4):412–9

[Alkaline phosphatase of bone origin in hemodialyzed patients. 110 assays] Ureña P, et al. **Presse Med** 1996 Oct 5;25(29):1320–5 (Eng. Abstr.) **(Fre)**

GROWTH & DEVELOPMENT see BONE DEVELOPMENT

IMMUNOLOGY

[The detection of ABO system antigens in bone, nail and tooth fragments] Gurtovaia SV, et al. **Sud Med Ekspert** 1996 Oct-Dec;39(4):23–5 (Eng. Abstr.) **(Rus)**

INJURIES

Horseshoe characteristics as possible risk factors for fatal musculoskeletal injury of thoroughbred racehorses. Kane AJ, et al. **Am J Vet Res** 1996 Aug;57(8):1147–52

The consequences of osteoporosis in the elderly [see comments] Mykyta LJ. **Aust Fam Physician** 1997 Feb; 26(2):115–21 (26 ref.). Comment in: Aust Fam Physician 1997 Apr;26(4):475.

Significance of short tau inversion recovery magnetic resonance sequence in the management of skeletal injuries. Van Gelderen WF, et al. **Australas Radiol** 1997 Feb; 41(1):13–5

Heterozygous oim mice exhibit a mild form of osteogenesis imperfecta. Saban J, et al. **Bone** 1996 Dec;19(6):575–9

Statistical analysis of vibration–induced bone and joint damages. Schenk T. **Cent Eur J Public Health** 1995;3 Suppl:113–7

Traumatic injuries of the first ray. Blakeslee TJ. **Clin Podiatr Med Surg** 1996 Jul;13(3):549–73 (22 ref.)

Effects of 2 years' treatment of osteoporosis with 1 alpha–hydroxy vitamin D3 on bone mineral density and incidence of fracture: a placebo–controlled, double–blind prospective study. Shikari M, et al. **Endocr J** 1996 Apr; 43(2):211–20

Age–related differences in post–yield damage in human cortical bone. Experiment and model. Courtney AC, et al. **J Biomech** 1996 Nov;29(11):1463–71

A 3D damage model for trabecular bone based on fabric tensors. Zysset PK, et al. **J Biomech** 1996 Dec; 29(12):1549–58

Development of tricalcium phosphate/amylopectin paste combined with recombinant human transforming growth factor beta 1 as a bone defect filler. Ongpipattanakul B, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):295–305

The remains of Dr. Carl Austin Weiss: anthropological analysis. Ubelaker DH. **J Forensic Sci** 1996 Jan;41(1):60–79

Fracture and dislocation compendium. Orthopaedic Trauma Association Committee for Coding and Classification. **J Orthop Trauma** 1996;10 Suppl 1:v–ix, 1–154

Long bone fracture healing: IGF–I concentrations and specific binding to erythrocytes. Karachaliou FH, et al. **J Pediatr Endocrinol Metab** 1996 Jul–Aug;9(4):491–5

Managing the risk of thrombosis in the perioperative period in patients undergoing orthopedic and trauma surgery with low–molecular–weight heparin: enoxaparin. Lassen MR, et al. **Orthopedics** 1997 Feb;20 Suppl:14–7

Apophyseal injuries. Dyment PG. **Pediatr Ann** 1997 Jan; 26(1):28–30

Complications of skeletal trauma. Ehara S. **Radiol Clin North Am** 1997 May;35(3):767–81 (58 ref.)

Skeletal injuries in the pediatric patient. Kao SC, et al. **Radiol Clin North Am** 1997 May;35(3):727–46 (100 ref.)

Age, body composition, aerobic fitness and health condition as risk factors for musculoskeletal injuries in conscripts. Heir T, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):222–7

Magnetic resonance imaging of radiographically occult bony trauma. Anderson M. **West J Med** 1996 Jul–Aug; 165(1–2):58

[Treatment of severe osteoarticular injuries in under conditions of war] Rigal S, et al. **Chirurgie** 1997; 122(3):193–201; discussion 202 (Eng. Abstr.) **(Fre)**

[Immediate orthopedic surgery in multiple trauma] Mosheiff R, et al. **Harefuah** 1997 Jun 1;132(11):810–3, 823 (Eng. Abstr.) **(Heb)**

[Multiple injuries of bones and other organ injuries—malpractice. Results and analysis of questionnaires] **Nippon Seikeigeka Gakkai Zasshi** 1996 Jan; 70(1):51–7 **(Jpn)**

[Topological classification of mechanical injuries of the locomotor apparatus] Sokov LP, et al. **Med Tekh** 1997 Jan–Feb;(1):28–30 (Eng. Abstr.) **(Rus)**

INNERVATION

The development of autonomic innervation in bone and joints of the rat. Sisask G, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):27–33

Efferent targets of osseous CGRP–immunoreactive nerve fiber before and after bone destruction in adjuvant arthritic rat: an ultramorphological study on their terminal–target relations. Imai S, et al. **J Bone Miner Res** 1997 Jul; 12(7):1018–27

METABOLISM

Bone mineral density changes during lactation: maternal, dietary, and biochemical correlates. Krebs NF, et al. **Am J Clin Nutr** 1997 Jun;65(6):1738–46

Altered bone metabolism in inflammatory bowel disease. Bischoff SC, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1157–63

Effect of treatment on bone mass, mineral metabolism, and body composition in untreated celiac disease patients. Mautalen C, et al. **Am J Gastroenterol** 1997 Feb;92(2):313–8

Bone metabolism in treated celiac children [letter; comment] Szathmári M, et al. **Am J Gastroenterol** 1997 May; 92(5):910–1. Comment on: Am J Gastroenterol 1996 Jun;91(6):1226–31.

Serum (plasma) lead, blood lead, and bone lead [letter; comment] Chettle DR, et al. **Am J Ind Med** 1997 Sep; 32(3):319–20. Comment on: Am J Ind Med 1997 Sep;32(3):317–8.

Comparison of 22–oxacalcitriol and 1,25(OH)2D3 on bone metabolism in young X–linked hypophosphatemic male mice. Halstead LR, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E141–7

Parathyroid hormone–induced calcium efflux from cultured bone is mediated by protein kinase C translocation. Sprague SM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1139–46

Effect of nitric oxide synthase inhibitors on bone metabolism in growing rats. Tsukahara H, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E840–5

Osteopontin and bone sialoprotein expression in regenerating rat periodontal ligament and alveolar bone. Lekic P, et al. **Anat Rec** 1996 Jan;244(1):50–8

Changes in markers of bone collagen turnover in toxic and euthyroid states: a study of 22 patients. Wilkinson H, et al. **Ann Clin Biochem** 1996 Sep;33 (Pt 5):454–5

Aging effect on inductive capacity of human demineralized bone matrix. Nyssen–Behets C, et al. **Arch Orthop Trauma Surg** 1996;115(6):303–6

Relationship between biochemical markers of bone turnover and bone scintigraphic indices in assessment of Paget's disease activity. Alvarez L, et al. **Arthritis Rheum** 1997 Mar;40(3):461–8

Renal osteodystrophy. Hruska KA. **Baillieres Clin Endocrinol Metab** 1997 Apr;11(1):165–94 (86 ref.)

Expression of prolactin receptors in human osteosarcoma cells. Bataille–Simoneau N, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):323–8

Cloning of P2Y6 cDNAs and identification of a pseudogene: comparison of P2Y receptor subtype expression in bone and brain tissues. Maier R, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):297–302

Immunocytochemical detection of estrogen receptors in bone cells using flow cytometry. Stulc T, et al. **Biochim Biophys Acta** 1997 Mar 27;1356(1):95–100

Lead levels in bone and hair of rats treated with lead acetate. Hać E, et al. **Biol Trace Elem Res** 1996 Jun;52(3):293–301

Acidity near eroding polylactide–polyglycolide in vitro and in vivo in rabbit tibial bone chambers. Martin C, et al. **Biomaterials** 1996 Dec;17(24):2373–80

Resorption of composite polymer–hydroxyapatite membranes: a time–course study in rabbit. Piattelli A, et al. **Biomaterials** 1997 Apr;18(8):629–33

The expression of thyroid hormone receptors in human bone. Abu EO, et al. **Bone** 1997 Aug;21(2):137–42

Effect of antiandrogens casodex and epitestosterone on bone composition in mice. Broulik PD, et al. **Bone** 1997 May; 20(5):473–5

1–alpha–Hydroxyvitamin D3 treatment decreases bone turnover and modulates calcium–regulating hormones in early postmenopausal women. Chen JT, et al. **Bone** 1997 Jun;20(6):557–62

Pamidronate content and turnover in sternum, vertebral body, and iliac bones of dogs. King LE, et al. **Bone** 1997 May;20(5):405–11

Bone turnover in neonates: changes of urinary excretion rate of collagen type I cross–linked peptides during the first days of life and influence of gestational age. Mora S, et al. **Bone** 1997 Jun;20(6):563–6

Biochemical markers of bone metabolism after short and long time ethanol withdrawal in alcoholics. Nyquist F, et al. **Bone** 1996 Jul;19(1):51–4

Expression of insulin–like growth factor I (IGF–I) mRNA variants in rat bone. West CA, et al. **Bone** 1996 Jul; 19(1):41–6

The influence of growth hormone treatment on bone metabolism in dialysis patients. Sieniawska M, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:61–3

Serum markers of bone metabolism in multiple myeloma: prognostic value of the carboxy–terminal telopeptide of type I collagen (ICTP). Nordic Myeloma Study Group (NMSG). Abildgaard N, et al. **Br J Haematol** 1997 Jan; 96(1):103–10

Short–term effects of dietary sodium intake on bone metabolism in postmenopausal women measured using urinary deoxypyridinoline excretion. Lietz G, et al. **Br J Nutr** 1997 Jul;78(1):73–82

Vitamin C and copper interactions in guinea–pigs and a study of collagen cross–links. Tsuchiya H, et al. **Br J Nutr** 1997 Feb;77(2):315–25

Biochemical markers of bone turnover in seronegative spondylarthropathy: relationship to disease activity. MacDonald AG, et al. **Br J Rheumatol** 1997 Jan;36(1):50–3

Aminohexane bisphosphonate suppresses bone turnover in postmenopausal women more rapidly than oestrogen–gestagen therapy. Tobias JH, et al. **Br J Rheumatol** 1996 Jul;35(7):636–41

Bone metabolism following bladder substitution with the ileal urethral Kock reservoir. Poulsen AL, et al. **Br J Urol** 1997 Mar;79(3):339–47

Factors associated with cortical and trabecular bone loss as quantified by peripheral computed tomography (pQCT) at the ultradistal radius in aging women. Boonen S, et al. **Calcif Tissue Int** 1997 Feb;60(2):164–70

Net fluxes over working thigh of hormones, growth factors and biomarkers of bone metabolism during short lasting dynamic exercise. Brahm H, et al. **Calcif Tissue Int** 1997 Feb;60(2):175–80

Bone metabolism during exercise and recovery: the influence of plasma volume and physical fitness. Brahm H, et al. **Calcif Tissue Int** 1997 Sep;61(3):192–8

Bone density change and biochemical indices of skeletal turnover. Cosman F, et al. **Calcif Tissue Int** 1996 Apr; 58(4):236–43

Influence of ovariectomy on bone metabolism in very old rats. Gaumet N, et al. **Calcif Tissue Int** 1996 Apr; 58(4):256–62

The effect of tamoxifen on bone metabolism and skeletal growth is different in ovariectomized and intact rats. Li X, et al. **Calcif Tissue Int** 1996 Oct;59(4):271–6

P–glycoprotein is expressed in the mineralizing regions of the skeleton. Mangham DC, et al. **Calcif Tissue Int** 1996 Mar;58(3):186–91

High bone turnover is associated with low bone mass and spinal fracture in postmenopausal women. Ravn P, et al. **Calcif Tissue Int** 1997 Mar;60(3):255–60

The effects of brisk walking on markers of bone and calcium metabolism in postmenopausal women. Thorsen K, et al. **Calcif Tissue Int** 1996 Apr;58(4):221–5

Orientation of collagen in osteonal bone [letter] Turner CH, et al. **Calcif Tissue Int** 1997 Jan;60(1):90

Effects of magnesium deficiency on magnesium and calcium content in bone and cartilage in developing rats in correlation to chondrotoxicity. Vormann J, et al. **Calcif Tissue Int** 1997 Sep;61(3):230–8

Effects of acute and long–term administration of prolactin on bone 45Ca uptake, calcium deposit, and calcium resorption in weaned, young, and mature rats. Krishnamra N, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1157–65

Endocrine function and bone metabolism 5 years after autologous bone marrow/blood–derived progenitor cell transplantation. Keilholz U, et al. **Cancer** 1997 Apr 15; 79(8):1617–22

Effects of bone metastases on bone metabolism: implications for diagnosis, imaging and assessment of response to cancer treatment. Vinholes J, et al. **Cancer Treat Rev** 1996 Jul; 22(4):289–331 (248 ref.)

gamma–Pyrones from Gonystylus keithii, as new inhibitors of parathyroid hormone (PTH)–induced Ca release from neonatal mouse calvaria. Kanazawa T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):1046–51

New and traditional serum markers of bone metabolism in the detection of skeletal metastases. Plebani M, et al. **Clin Biochem** 1996 Feb;29(1):67–72

Biochemical bone markers in patients with multiple myeloma. Nawawi H, et al. **Clin Chim Acta** 1996 Sep 30; 253(1–2):61–77

Reference intervals for some serum biochemical markers of bone metabolism in Kuwait. Prabha K, et al. **Clin Chim Acta** 1996 May 30;249(1–2):67–75

Serum bone alkaline phosphatase is superior to plasma levels of bone matrix proteins for assessment of bone metabolism in patients receiving renal transplants. Withold W, et al. **Clin Chim Acta** 1997 May 28;261(2):105–15

Vitamin D receptor gene polymorphism in men and its effect on bone density and calcium absorption. Francis RM, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):83–6

Bone turnover and bone mineral density in patients with congenital adrenal hyperplasia. Guo CY, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):535–41

Effects of mineral composition of drinking water on risk for stone formation and bone metabolism in idiopathic calcium nephrolithiasis. Marangella M, et al. **Clin Sci (Colch)** 1996 Sep;91(3):313–8

Osteopontin: an interfacial extracellular matrix protein in mineralized tissues. McKee MD, et al. **Connect Tissue Res** 1996;35(1–4):197–205 (30 ref.)

The membrane associated kinases which phosphorylate bone and dentin extracellular matrix phosphoproteins are isoforms of cytosolic CKII. Sfeir C, et al. **Connect Tissue Res** 1996;35(1–4):215–22

Extracellular processing of bone and dentin proteins in matrix mineralization. Suzuki Y, et al. **Connect Tissue Res** 1996; 35(1–4):223–9

Urinary pyridinium cross–link excretion is increased in critically ill surgical patients. Shapses SA, et al. **Crit Care Med** 1997 Jan;25(1):85–90

The regulation and regulatory role of collagenase in bone. Partridge NC, et al. **Crit Rev Eukaryot Gene Expr** 1996; 6(1):15–27 (100 ref.)

The role of cytokines and growth factors as mediators of the effects of systemic hormones at the bone local level. Riancho JA, et al. **Crit Rev Eukaryot Gene Expr** 1995; 5(3–4):193–217 (221 ref.)

Insulin–like growth factor axis, bone and collagen turnover in children with atopic dermatitis treated with topical glucocorticosteroids. Wolthers OD, et al. **Dermatology** 1996;192(4):337–42

Analysis of Hoxd–13 and Hoxd–11 misexpression in chick limb buds reveals that Hox genes affect both bone condensation and growth. Goff DJ, et al. **Development** 1997 Feb;124(3):627–36

Carboxy–terminal propeptide of type I procollagen (P1CP) and carboxy–terminal telopeptide of type I collagen (1CTP) as sensitive markers of bone metabolism in thyroid disease. Miyakawa M, et al. **Endocr J** 1996 Dec;43(6):701–8

Effects of physical exercise on some parameters of bone metabolism in postmenopausal women. Caballero MJ, et al. **Endocr Res** 1996 May;22(2):131–8

Insulin–like growth factor–binding protein–1 expression in cultured human bone cells: regulation by insulin and glucocorticoid. Conover CA, et al. **Endocrinology** 1996 Aug;137(8):3295–301

Raloxifene inhibits bone turnover and prevents further cancellous bone loss in adult ovariectomized rats with established osteopenia. Evans GL, et al. **Endocrinology** 1996 Oct;137(10):4139–44

Activity of the osteocalcin promoter in skeletal sites of transgenic mice and during osteoblast differentiation in bone marrow–derived stromal cell cultures: effects of age and sex. Frenkel B, et al. **Endocrinology** 1997 May; 138(5):2109–16

Follistatin and activin in bone: expression and localization during endochondral bone development. Funaba M, et al. **Endocrinology** 1996 Oct;137(10):4250–9

Ascorbic acid alters collagen integrins in bone culture. Ganta DR, et al. **Endocrinology** 1997 Sep;138(9):3606–12

Use of endogenous, stable lead isotopes to determine release of lead from the skeleton. Smith DR, et al. **Environ Health Perspect** 1996 Jan;104(1):60–6

Geriatric bone lead metabolism in a female nonhuman primate population. McNeill FE, et al. **Environ Res** 1997 Feb;72(2):131–9

17 beta-Estradiol and tamoxifen prevent the over-glycosylation of rat trabecular bone collagen induced by ovariectomy. Moro L, et al. **Eur J Clin Chem Clin Biochem** 1997 Jan;35(1):29–33

The influence of orchidectomy on collagen glycosylation of trabecular bone in rat. Moro L, et al. **Eur J Clin Chem Clin Biochem** 1997 Apr;35(4):269–73

Effects of low- and conventional-dose transcutaneous HRT over 2 years on bone metabolism in younger and older postmenopausal women. Sharp CA, et al. **Eur J Clin Invest** 1996 Sep;26(9):763–71

Dose-dependent effects of recombinant human growth hormone on biochemical markers of bone and collagen metabolism in adult growth hormone deficiency. Bollerslev J, et al. **Eur J Endocrinol** 1996 Dec;135(6):666–71

Of bone and genes: vitamin D receptor polymorphism and primary hyperparathyroidism. Hofbauer LC, et al. **Eur J Endocrinol** 1996 Jun;134(6):685–6

Bone mass, bone turnover and body composition in former hypothyroid patients receiving replacement therapy. Langdahl BL, et al. **Eur J Endocrinol** 1996 Jun;134(6):702–9

GH and bone metabolism: the role of the vitamin D system [comment] Pfeilschifter J. **Eur J Endocrinol** 1997 Jan; 136(1):30–2. Comment on: Eur J Endocrinol 1997 Jan;136(1):45–51.

Abnormal bone turnover in monoclonal gammopathy of undetermined significance: analyses of type I collagen telopeptide, osteocalcin, bone-specific alkaline phosphatase and propeptides of type I and type III procollagens. Vejlgaard T, et al. **Eur J Haematol** 1997 Feb;58(2):104–8

Effects of continuous percutaneous estradiol administration on skeletal turnover in postmenopausal women: a 1-year prospective controlled study. Cicinelli E, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Nov;69(2):109–13

Effect of growth hormone therapy on bone metabolism of growth hormone deficient children. Stamoyannou L, et al. **Eur J Pediatr** 1997 Aug;156(8):592–6

Bone, exercise, and stress fractures. Burr DB. **Exerc Sport Sci Rev** 1997;25:171–94 (154 ref.)

Abstracts from the 12th annual meeting of the section on calcium regulating hormones and bone metabolism of the German Endocrine Society. Heidelberg, October 11–12, 1996. **Exp Clin Endocrinol Diabetes** 1996;104(4):A10–24

Estrogen receptor mRNA in mineralized tissues of rainbow trout: calcium mobilization by estrogen. Armour KJ, et al. **FEBS Lett** 1997 Jul 7;411(1):145–8

Excretion of urinary N-telopeptides reflects changes in bone turnover during ovarian suppression and indicates individually variable estradiol threshold for bone loss. Dmowski WP, et al. **Fertil Steril** 1996 Dec;66(6):929–36

Radicals generated by bone cutting and fracture. Symons MC. **Free Radic Biol Med** 1996;20(6):831–5 (23 ref.)

Comparative absorption of lead from contaminated soil and lead salts by weanling Fischer 344 rats. Freeman GB, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):109–19

Measurement of the flux of lead from bone to blood in a nonhuman primate (Macaca fascicularis) by sequential administration of stable lead isotopes. Inskip MJ, et al. **Fundam Appl Toxicol** 1996 Oct;33(2):235–45

Differences in behavior among the chlorides of seven rare earth elements administered intravenously to rats. Nakamura Y, et al. **Fundam Appl Toxicol** 1997 Jun; 37(2):106–16

Labels of surface-seeking radionuclides in the human skeleton. Polig E. **Health Phys** 1997 Jan;72(1):19–33

A biochemical and immuno-electron microscopical analysis of chondroitin sulphate-rich proteoglycans in human alveolar bone. Smith AJ, et al. **Histochem J** 1997 Jan; 29(1):1–9

Static and dynamic bone changes in hospitalized patients suffering from rickets—a histomorphometric study. Raubenheimer EJ, et al. **Histopathology** 1997 Jul;31(1):12–7

The assessment of bone metabolism in vivo using biochemical approaches. Russell RG. **Horm Metab Res** 1997 Mar; 29(3):138–44 (19 ref.)

Biochemical markers of bone turnover. Crofton PM, et al. **Horm Res** 1996;45 Suppl 1:55–8 (10 ref.)

The acute effects of exercise on bone turnover. Welsh L, et al. **Int J Sports Med** 1997 May;18(4):247–51

The structure of bone tissues and the cellular control of their deposition. Marotti G. **Ital J Anat Embryol** 1996 Oct-Dec; 101(4):25–79 (178 ref.)

Effect of exercise on bone mineral metabolism in diabetes. Burke JP, et al. **J Am Podiatr Med Assoc** 1996 Jan; 86(1):38–42

Molecular site specificity of pyridinoline and pyrrole cross-links in type I collagen of human bone. Hanson DA, et al. **J Biol Chem** 1996 Oct 25;271(43):26508–16

Evidence of the presence of a specific ATPase responsible for ATP-initiated calcification by matrix vesicles isolated from cartilage and bone. Hsu HHT, et al. **J Biol Chem** 1996 Oct 18;271(42):26383–8

Identification of a novel bone/calcium metabolism-regulating factor in porcine pancreas. Izbicka E, et al. **J Biol Chem** 1996 Sep 20;271(38):23230–4

What is the role of the convective current density in the real-time calcium response of cultured bone cells to fluid flow? Hung CT, et al. **J Biomech** 1996 Nov;29(11):1403–9

A novel technique for quantitative detection of mRNA expression in human bone derived cells cultured on biomaterials. Zreiqat H, et al. **J Biomed Mater Res** 1996 Winter;33(4):217–23

Tartronates: a new generation of drugs affecting bone metabolism. Caselli G, et al. **J Bone Miner Res** 1997 Jun; 12(6):972–81

Expression of rat bone sialoprotein promoter in transgenic mice. Chen J, et al. **J Bone Miner Res** 1996 May; 11(5):654–64

Nitric oxide and bone. Evans DM, et al. **J Bone Miner Res** 1996 Mar;11(3):300–5 (67 ref.)

Effects of sodium fluoride and alendronate on the bone mineral in minipigs: a small-angle X-ray scattering and backscattered electron imaging study. Fratzl P, et al. **J Bone Miner Res** 1996 Feb;11(2):248–53

Effect of resistance exercise training on bone formation and resorption in young male subjects assessed by biomarkers of bone metabolism. Fujimura R, et al. **J Bone Miner Res** 1997 Apr;12(4):656–62

Normal parathyroid hormone responsiveness of bone-derived cells from a patient with pseudohypoparathyroidism. Ish-Shalom S, et al. **J Bone Miner Res** 1996 Jan;11(1):8–14

Ontogeny of the 1,25-dihydroxyvitamin D3 receptor in fetal rat bone. Johnson JA, et al. **J Bone Miner Res** 1996 Jan; 11(1):56–61

Expression of osteocalcin in the patella of experimentally immobilized and remobilized rats. Kannus P, et al. **J Bone Miner Res** 1996 Jan;11(1):79–87

Role of nonenzymatic glycosylation of type I collagen in diabetic osteopenia. Katayama Y, et al. **J Bone Miner Res** 1996 Jul;11(7):931–7

Pulsating fluid flow stimulates prostaglandin release and inducible prostaglandin G/H synthase mRNA expression in primary mouse bone cells. Klein-Nulend J, et al. **J Bone Miner Res** 1997 Jan;12(1):45–51

Vitamin D receptor polymorphisms, bone mineral density, and bone metabolism in postmenopausal Mexican-American women. McClure L, et al. **J Bone Miner Res** 1997 Feb;12(2):234–40

Insulin-like growth factor (IGF)-I, -II, IGF binding proteins (IGFBP)-3, -4, and -5 levels in the conditioned media of normal human bone cells are skeletal site-dependent. Malpe R, et al. **J Bone Miner Res** 1997 Mar;12(3):423–30

Vitamin D receptor alleles, bone mineral density and turnover in premenopausal Japanese women [see comments] Tokita A, et al. **J Bone Miner Res** 1996 Jul; 11(7):1003–9. Comment in: J Bone Miner Res 1997 Mar;12(3):494–5.

Interleukin-6 expression and histomorphometry of bones from mice deficient in receptors for interleukin-1 or tumor necrosis factor. Vargas SJ, et al. **J Bone Miner Res** 1996 Nov;11(11):1736–44

Early responses to dynamic strain change and prostaglandins in bone-derived cells in culture. Zaman G, et al. **J Bone Miner Res** 1997 May;12(5):769–77

Expression of bone-specific genes by hypertrophic chondrocytes: implication of the complex functions of the hypertrophic chondrocyte during endochondral bone development. Gerstenfeld LC, et al. **J Cell Biochem** 1996 Jul;62(1):1–9 (59 ref.)

Cytokine regulation of adult human osteoblast-like cell prostaglandin biosynthesis. Xu J, et al. **J Cell Biochem** 1997 Mar 15;64(4):618–31

Effects of inhibitors of signal transduction pathways on transforming growth factor beta1 and osteogenic protein-1-induced insulinlike growth factor binding protein-3 expression in human bone cells. Srinivasan N, et al. **J Cell Physiol** 1997 Oct;173(1):28–35

Changes in bone mineral density and calcium metabolism in breastfeeding women: a one year follow-up study. Affinito P, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2314–8

The effect of growth hormone (GH) on histomorphometric indices of bone structure and bone turnover in GH-deficient men. Bravenboer N, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1818–22

Healthy elderly French women living at home have secondary hyperparathyroidism and high bone turnover in winter. EPIDOS Study Group. Chapuy MC, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1129–33

Racial differences in bone density between young adult black and white subjects persist after adjustment for anthropometric, lifestyle, and biochemical differences. Ettinger B, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):429–34

Treatment of isolated hypogonadotropic hypogonadism effect on bone mineral density and bone turnover. Guo CY, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):658–65

Serum interleukin-6 and bone metabolism in patients with thyroid function disorders. Lakatos P, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):78–81

Skeletal development and bone turnover revisited [editorial] Matkovic V. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2013–6 (43 ref.)

Metabolic improvement of poorly controlled noninsulin-dependent diabetes mellitus decreases bone turnover. Okazaki R, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2915–20

Aging and bone metabolism in African American and Caucasian women. Perry HM 3rd, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1108–17

The predictive value of biochemical markers of bone turnover for bone mineral density in early postmenopausal women treated with hormone replacement or calcium supplementation. Rosen CJ, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1904–10

A longitudinal study of markers of bone turnover in Graves' disease and their value in predicting bone mineral density. Siddiqi A, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):753–9

Urinary pyridinium collagen cross-links predict growth performance in children with idiopathic short stature and with growth hormone (GH) deficiency treated with GH. Skeletal metabolism during GH treatment. Spagnoli A, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3589–93

Finasteride therapy does not alter bone turnover in men with benign prostatic hyperplasia--a Clinical Research Center study. Tollin SR, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1031–4

The death of osteocytes via apoptosis accompanies estrogen withdrawal in human bone. Tomkinson A, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3128–35

The effect of one-year cross-sex hormonal treatment on bone metabolism and serum insulin-like growth factor-1 in transsexuals. van Kesteren P, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2227–32

Bone mineral metabolism is normal in non-insulin-dependent diabetes mellitus. Sosa M, et al. **J Diabetes Complications** 1996 Jul-Aug;10(4):201–5

Osteotropic drug delivery system (ODDS) based on bisphosphonic prodrug. I: synthesis and in vivo characterization of osteotropic carboxyfluorescein. Fujisaki J, et al. **J Drug Target** 1995;3(4):273–82

Osteotropic drug delivery system (ODDS) based on bisphosphonic prodrug. III: Pharmacokinetics and targeting characteristics of osteotropic carboxyfluorescein. Fujisaki J, et al. **J Drug Target** 1996;4(2):117–23

Evaluation of bone turnover in postmenopause, vertebral fracture, and hip fracture using biochemical markers for bone formation and resorption. Takahashi M, et al. **J Endocrinol Invest** 1997 Mar;20(3):112–7

Bone changes and mineral metabolism disorders in rats with experimental liver cirrhosis. Nakano A, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1143–54

Unitary behavior of skeletal, cardiac, and chimeric L-type Ca2+ channels expressed in dysgenic myotubes. Dirksen RT, et al. **J Gen Physiol** 1996 Jun;107(6):731–42

Bone mineral density and biochemical markers of bone turnover in healthy elderly men and women. Krall EA, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar;52(2):M61–7

Pregnancy increases mobilization of lead from maternal skeleton. Gulson BL, et al. **J Lab Clin Med** 1997 Jul; 130(1):51–62

Serum osteocalcin and bone mineral density at various skeletal sites: a study performed with three different assays [see comments] Minisola S, et al. **J Lab Clin Med** 1997 Apr;129(4):422–9. Comment in: J Lab Clin Med 1997 Apr;129(4):396–7.

Expression of growth factor ligand and receptor genes in rat cancellous bone trabeculae and marrow. Watson PH, et al. **J Mol Endocrinol** 1996 Aug;17(1):45–54

Differential expression of bone morphogenetic proteins in the developing vestibular and auditory sensory organs. Oh SH, et al. **J Neurosci** 1996 Oct 15;16(20):6463–75

Acute and long-term effects of gastrin on muscle and bone calcium uptake in rats. Krishnamra N, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):687–97

Effects of whey protein on calcium and bone metabolism in ovariectomized rats. Takada Y, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr;43(2):199–210

Quantification of vitamin D receptor mRNA in tissue sections demonstrates the relative limitations of in situ-reverse transcriptase-polymerase chain reaction. Mee AP, et al. **J Pathol** 1997 May;182(1):22–8

Alterations in bone metabolism in children with inflammatory bowel disease: an in vitro study [see comments] Hyams JS, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar; 24(3):289–95. Comment in: J Pediatr Gastroenterol Nutr 1997 Mar;24(3):361–2.

Normal serum indices of bone collagen biosynthesis and degradation in small for gestational age infants. Namgung R, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):224–8

Serum levels of osteocalcin and type I procollagen in children with celiac disease. Pratico G, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):170–3

Distribution of clodronate in the bone of adult rats and its effects on trabecular and cortical bone. Osterman T, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1051–6

Bone uptake of vanadium in mice: simultaneous tracing of V, Se, Sr, Y, Zr, Ru and Rh using a radioactive multitracer. Amano R, et al. **J Trace Elem Med Biol** 1996 Sep; 10(3):145–8

Changes in bone metabolism and epiphysial growth plate in bovine Hyena disease induced by administration of vitamin AD3E premix or Vitamin A. Takaki H, et al. **J Vet Med Sci** 1996 May;58(5):407–12

Bone histomorphometric changes due to differences in calcium intake under metabolic acidosis in rats. Won JH, et al. **J Vet Med Sci** 1996 Jul;58(7):611–6

Mineral metabolism in plasma, urine and bone of periparturient cows fed anionic diets with different calcium and phosphorous contents. Won JH, et al. **J Vet Med Sci** 1996 Dec;58(12):1187–92

Bone health of adult hemodialysis patients is related to vitamin K status. Kohlmeier M, et al. **Kidney Int** 1997 Apr; 51(4):1218–21

Oxytetracycline–induced nephrotoxicosis in dogs after intravenous administration for experimental bone labeling. Moalli MR, et al. **Lab Anim Sci** 1996 Oct;46(5):497–502

Effect of pregnancy on recovery of lactational bone loss [letter] Laskey MA, et al. **Lancet** 1997 May 24; 349(9064):1518–9

Trace element composition and histological analysis of rat bones from the space shuttle. Yamada G, et al. **Life Sci** 1997;60(9):635–42

Magnetic susceptibility measurement of insoluble solids by NMR: magnetic susceptibility of bone. Hopkins JA, et al. **Magn Reson Med** 1997 Apr;37(4):494–500

AP–1 regulation of the rat bone sialoprotein gene transcription is mediated through a TPA response element within a glucocorticoid response unit in the gene promoter. Yamauchi M, et al. **Matrix Biol** 1996 Jul;15(2):119–30

The isolated hind limb preparation as a drug distribution model. Casquero–Dorado AC, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):453–8

The involvement of subchondral mineralized tissues in osteoarthrosis: quantitative microscopic evidence. Burr DB, et al. **Microsc Res Tech** 1997 May 15;37(4):343–57 (100 ref.)

Cartilage and subchondral bone interaction in osteoarthrosis of human knee joint: a histological and histomorphometric study. Matsui H, et al. **Microsc Res Tech** 1997 May 15; 37(4):333–42 (22 ref.)

The interaction of the zone of calcified cartilage and subchondral bone in osteoarthritis. Oegema TR Jr, et al. **Microsc Res Tech** 1997 May 15;37(4):324–32 (75 ref.)

Changes of bone markers during long–term intravenous calcitriol therapy in maintenance dialysis patients. Lee SH, et al. **Miner Electrolyte Metab** 1996;22(4):219–23

Exogenous glycosaminoglycans (GAG) differentially modulate GAG synthesis by anchorage–independent cultures of the outer cells from neonatal rat calvaria in the absence and presence of TGF–beta. Anastassiades TP, et al. **Mol Cell Biochem** 1996 May 10;158(1):25–32

Expression of alternatively spliced isoforms of the parathyroid hormone (PTH)/PTH–related peptide receptor messenger RNA in human kidney and bone cells. Jobert AS, et al. **Mol Endocrinol** 1996 Sep;10(9):1066–76

Immunotactoid glomerulopathy with extrarenal deposits in the bone, and chronic cholestatic liver disease. Wallner M, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1619–24

Long–term effects of intravenous 1 alpha (OH)D3 combined with CaCO3 and low–calcium dialysis on secondary hyperparathyroidism and biochemical bone markers in patients on chronic hemodialysis. Brandi L, et al. **Nephron** 1996;74(1):89–103

Clinical evaluation of bone metabolism after renal transplantation to support the theory to perform 1,25(OH)2D3 pulse therapy before transplantation [letter] Hyodo T, et al. **Nephron** 1996;73(4):723

Calcitriol may directly suppress bone turnover [letter; comment] Ureña P, et al. **Nephron** 1997;75(1):116–7. Comment on: Nephron 1995;71(2):218–23.

Bone metabolism and daily physical activity in women undergoing hemodialysis. Ota S, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):441–6

212Bi–DOTMP: an alpha particle emitting bone–seeking agent for targeted radiotherapy. Hassfjell SP, et al. **Nucl Med Biol** 1997 Apr;24(3):231–7

Evaluation of samarium–153 and holmium–166–EDTMP in the normal baboon model. Louw WK, et al. **Nucl Med Biol** 1996 Nov;23(8):935–40

Age–related normal uptake of 99mTc–MDP in the lower spine. Sundkvist GM, et al. **Nuklearmedizin** 1997 Mar; 36(2):52–5

Bone lead as a risk factor for hypertension in men. Fleet JC. **Nutr Rev** 1996 Jun;54(6):180–2 (3 ref.)

Differences in mineral homeostasis, volumetric bone mass and femoral neck axis length in black and white South African women. Daniels ED, et al. **Osteoporos Int** 1997; 7(2):105–12

Ultrasound velocity and broadband attenuation over a wide range of bone mineral density. Han S, et al. **Osteoporos Int** 1996;6(4):291–6 (31 ref.)

Can biochemical markers predict bone loss at the hip and spine?: a 4–year prospective study of 141 early postmenopausal women. Keen RW, et al. **Osteoporos Int** 1996;6(5):399–406

Analysis of the molecular pharmacology of estrogen receptor agonists and antagonists provides insights into the mechanism of action of estrogen in bone. McDonnell DP, et al. **Osteoporos Int** 1997;7 Suppl 1:S29–34 (43 ref.)

The effect of a short course of calcium and vitamin D on bone turnover in older women. Prestwood KM, et al. **Osteoporos Int** 1996;6(4):314–9

Comparison of bone densitometry of the phalanges, distal forearm and axial skeleton in early postmenopausal women participating in the EPIC Study. Ravn P, et al. **Osteoporos Int** 1996;6(4):308–13

Chronic effect of aluminium ingestion on bone in calcium–deficient rats. Konishi Y, et al. **Pharmacol Toxicol** 1996 Jun;78(6):429–34

Effect of dose, sex and age on the drug disposition of incadronate, a new bisphosphonate, in rat bone. Usui T, et al. **Pharmacol Toxicol** 1996 Nov;79(5):254–8

Serum bone Gla protein and carboxyterminal cross–linked telopeptide of type I collagen in patients with Cushing's syndrome. Sartorio A, et al. **Postgrad Med J** 1996 Jul; 72(849):419–22

YY1 regulates vitamin D receptor/retinoid X receptor mediated transactivation of the vitamin D responsive osteocalcin gene. Guo B, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):121–6

Expression of galanin and a galanin receptor in several sensory systems and bone anlage of rat embryos. Xu ZQ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14901–5

Age–related changes in IGFBP–4 and IGFBP–5 levels in human serum and bone: implications for bone loss with aging. Mohan S, et al. **Prog Growth Factor Res** 1995; 6(2–4):465–73 (27 ref.)

Biochemical bone markers, bone mineral content, and bone mineral density in rats with experimental nephrotic syndrome. Sierra RI, et al. **Ren Fail** 1997 May;19(3):409–24

Metacarpal growth and systemic markers of bone metabolism in the ovine fetus. Collignon H, et al. **Reprod Fertil Dev** 1996;8(2):287–95

Water restriction and bone metabolism in camels. Ben Goumi M, et al. **Reprod Nutr Dev** 1996;36(5):545–54

Aspects of osseous, peritoneal and renal handling of bisphosphonate during peritoneal dialysis: a methodological study. Joffe P, et al. **Scand J Clin Lab Invest** 1996 Jul; 56(4):327–37

Intraindividual variability in bone markers in the urine. Jensen JE, et al. **Scand J Clin Lab Invest Suppl** 1997; 227:29–34

Genetic markers of bone metabolism and bone disease. Ralston SH. **Scand J Clin Lab Invest Suppl** 1997;227:114–21 (46 ref.)

IFCC committee on markers for bone turnover and bone disease––project presentation. Woloszczuk W. **Scand J Clin Lab Invest Suppl** 1997;227:95–9 (11 ref.)

The evidence for the incorporation of fulvic acid into the bone and cartilage of rats. Wang C, et al. **Sci Total Environ** 1996 Nov 22;191(3):197–202

Bone changes and carotid atherosclerosis in postmenopausal women. Uyama O, et al. **Stroke** 1997 Sep;28(9):1730–2

[New drugs with positive effects on bones] Zofková I, et al. **Cas Lek Cesk** 1997 Jul 30;136(15):459–63 (74 ref.) (Eng. Abstr.) **(Cze)**

[Budesonide and beclamethasone dipropionate inhalation powders. The effect on bone and collagen turnover in children] Birkebaek NH, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2559–62 (Eng. Abstr.) **(Dan)**

[Growth hormone, IGF and bone metabolism in adults] Bonjour JP, et al. **Ann Endocrinol (Paris)** 1996;57(3):147–9 (36 ref.) **(Fre)**

[Antibiotic release by tricalcic phosphate bone implantation. In vitro and in vivo pharmacokinetics of different galenic forms] Thomazeau H, et al. **Chirurgie** 1997 Jan; 121(9–10):663–6 (Eng. Abstr.) **(Fre)**

[Bone metabolism during pregnancy and breast feeding. Osteoporosis in pregnancy (editorial)] Audran M. **Rev Med Interne** 1997 Jul;18(7):517–9 **(Fre)**

[Reproducibility of aDNA typing] Schmerer WM, et al. **Anthropol Anz** 1997 Jun;55(2):199–206 (Eng. Abstr.) **(Ger)**

[Classification of isolated skeletal elements using aDNA typing] Schultes T, et al. **Anthropol Anz** 1997 Jun; 55(2):207–16 (Eng. Abstr.) **(Ger)**

[Bone metabolism and diseases] Raue F, et al. **Orthopade** 1996 Nov;25(6):567–77 **(Ger)**

[Bone density and laboratory parameters of bone metabolism in patients with terminal heart disease] Christ E, et al. **Schweiz Med Wochenschr** 1996 Sep 14;126(37):1553–9 (Eng. Abstr.) **(Ger)**

[Changes in phospho–calcium metabolic factors in function of the rate of bone turnover. Epidemiologic study of osteoporosis (part 2)] Maini M, et al. **Minerva Med** 1996 Dec;87(12):565–76 (Eng. Abstr.) **(Ita)**

[The measurements of bone turnover] Kushida K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:295–8 (12 ref.) **(Jpn)**

[Changes in bone mineral content and bone metabolism during pregnancy and puerperium] Manabe M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jun; 48(6):399–404 (Eng. Abstr.) **(Jpn)**

[Measurement of bone density by ultrasound bone densitometer in normal pregnant women] Tamura K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Nov; 48(11):1079–84 (Eng. Abstr.) **(Jpn)**

[Total health promotion plan for laborers––physical exercise and bone metabolism] Niwa S, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jan;70(1):17–27 (8 ref.) **(Jpn)**

[Concentration and distribution of fluorine in hen's eggs as an aspect of selected biological parameters] Machaliński B. **Ann Acad Med Stetin** 1996;42:25–38 (Eng. Abstr.) **(Pol)**

[Biochemical markers of bone metabolism] Leiva L. **Rev Med Chil** 1996 Aug;124(8 Suppl):54–60 (18 ref.) **(Spa)**

[Some characteristics of metabolism in osteoarticular, cardiovascular, and liver tissues in "experimental osteochondrosis"] Kniazieva MV, et al. **Ukr Biokhim Zh** 1995 Nov–Dec;67(6):66–75 (Eng. Abstr.) **(Ukr)**

MICROBIOLOGY

Evidence for the microbial basis of a chemoautotrophic invertebrate community at a whale fall on the deep seafloor: bone–colonizing bacteria and invertebrate endosymbionts. Deming JW, et al. **Microsc Res Tech** 1997 Apr 15; 37(2):162–70

Management of contaminated bone grafts: an experimental in vitro study. Hooe W, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):34–7

The use of quantitative bacteriologic assessment of bone. Heller WA, et al. **Plast Reconstr Surg** 1997 Aug; 100(2):397–401

Contamination risks from a high–speed bone burr. Schultz RB, et al. **Spine** 1996 Aug 1;21(15):1796–7

PATHOLOGY

The effect of removal of the medical collateral ligament on subchondral bone and cartilage in the growing rat knee joint. Messner K, et al. **Acta Anat (Basel)** 1996;156(1):34–40

Focal destruction and remodeling in guinea pig arthrosis de Bri E, et al. **Acta Orthop Scand** 1996 Oct;67(5):498–504

The effect of bone quality on the outcome of ingrowth total knee arthroplasty. Baldwin JL, et al. **Am J Knee Surg** 1996 Spring;9(2):45–9; discussion 49–50

Retarded skeletal development in transgenic mice with a type II collagen mutation. Savontaus M, et al. **Am J Pathol** 1996 Dec;149(6):2169–82

Recognition of leukemia in skeletal remains: report and comparison of two cases. Rothschild BM, et al. **Am J Phys Anthropol** 1997 Apr;102(4):481–96

Osseous manifestations of SAPHO (synovitis, acne, pustulosis, hyperostosis, osteitis) syndrome. Reith JD, et al. **Am J Surg Pathol** 1996 Nov;20(11):1368–77

Bone quantity and quality in past populations. Agarwal SC, et al. **Anat Rec** 1996 Dec;246(4):423–32

Fractal signature analysis measures cancellous bone organisation in macroradiographs of patients with knee osteoarthritis. Buckland–Wright JC, et al. **Ann Rheum Dis** 1996 Oct;55(10):749–55

Hypertrophic osteopathy in an alpaca. Curtis C, et al. **Aust Vet J** 1997 Jan;75(1):61–2

Bone changes in tuberous sclerosis mimicking metastases. Pui MH, et al. **Australas Radiol** 1996 Feb;40(1):77–9

Evidence for secular change in Paget's disease. Cundy T, et al. **Bone** 1997 Jan;20(1):69–71

Bone histomorphometry in hypoparathyroid patients treated with vitamin D. Langdahl BL, et al. **Bone** 1996 Feb; 18(2):103–8

Aging and matrix microdamage accumulation in human compact bone. Schaffler MB, et al. **Bone** 1995 Dec; 17(6):521–25

Dynamic relationships of trabecular bone density, architecture, and strength in a computational model of osteopenia. Siffert RS, et al. **Bone** 1996 Feb;18(2):197–206

Embedding undecalcified bone in polymethyl methacrylate: an improved method. Hand NM. **Br J Biomed Sci** 1996 Sep;53(3):238–40

Sectioning fresh human bone: the reduction of aerosol and physical hazards. McCaskie AW, et al. **Br J Biomed Sci** 1997 Jun;54(2):88–90

Methods to score vertebral deformities in patients with rheumatoid arthritis. Lems WF, et al. **Br J Rheumatol** 1997 Feb;36(2):220–4

A morphological and ultrastructural study of bone in osteogenesis imperfecta. Cassella JP, et al. **Calcif Tissue Int** 1996 Mar;58(3):155–65

Can the fast bone loss in osteoporotic and osteopenic patients be stopped with active vitamin D metabolites? Dambacher MA, et al. **Calcif Tissue Int** 1997 Jan;60(1):115–8

The International Federation of Societies on Skeletal Diseases (IFSSD): a new interdisciplinary world organization on musculo–skeletal disorders [editorial] Gennari C. **Calcif Tissue Int** 1996 Mar;58(3):127–8

Intraoperative pathologic consultation (IOC) for tumors of the bone. Mirra JM, et al. **Chir Organi Mov** 1997 Jan–Mar; 82(1):7–31 **(Eng, Ita)**

Antithyroid therapy improves bony manifestations and bone metabolic markers in patients with Graves' thyrotoxicosis. Nagasaka S, et al. **Clin Endocrinol (Oxf)** 1997 Aug; 47(2):215–21

Bone histomorphometry in adults with type IA osteogenesis imperfecta. McCarthy EF, et al. **Clin Orthop** 1997 Mar; (336):254–62

The use of MR imaging in the assessment and clinical management of stress reactions of bone in high–performance athletes. Arendt EA, et al. **Clin Sports Med** 1997 Apr;16(2):291–306 (15 ref.)

Bone involvement in childhood acute lymphoblastic leukaemia [letter; comment] Macharia WM. **East Afr Med J** 1996 Nov;73(11):772. Comment on: East Afr Med J 1996 Feb;73(2):126–8.

Bone mass, bone turnover and body composition in former hypothyroid patients receiving replacement therapy. Langdahl BL, et al. **Eur J Endocrinol** 1996 Jun;134(6):702–9

Percutaneous bone biopsy, techniques and indications.

Berning W, et al. **Eur Radiol** 1996;6(6):875–81 (21 ref.)
High resolution magnetic resonance imaging of trabecular structure. Majumdar S, et al. **Eur Radiol** 1997;7 Suppl 2:S51–5
The speed of post mortem change to the human skeleton and its taphonomic significance. Bell LS, et al. **Forensic Sci Int** 1996 Sep 30;82(2):129–40
Static and dynamic bone changes in hospitalized patients suffering from rickets—a histomorphometric study. Raubenheimer EJ, et al. **Histopathology** 1997 Jul;31(1):12–7
Osseous metaplasia of the endometrium: a rare cause of infertility and its hysteroscopic management. Bahçeci M, et al. **Hum Reprod** 1996 Nov;11(11):2537–9
Biopsy of bone and soft-tissue lesions. Simon MA, et al. **Instr Course Lect** 1994;43:521–6 (21 ref.)
Taking the 5000 year old "Jettböle skeletons" out of the closet: a palaeo-medical examination of human remains from the Aland (Ahvenanmaa) Islands. Nunez M, et al. **Int J Circumpolar Health** 1997 Apr;56(1–2):30–9
The diagnosis of a murder from skeletal remains: a case report. Vesterby A, et al. **Int J Legal Med** 1997; 110(2):97–100
The effects of the Ilizarov distraction technique on bone and muscle in a canine model: a preliminary report. Fitch RD, et al. **Iowa Orthop J** 1996;16:10–9
Nociceptive atrophy of the rat soleus muscle induced by bone fracture: a morphometric study. Zacharová G, et al. **J Appl Physiol** 1997 Feb;82(2):552–7
Bone–membrane interface in aseptic loosening of total joint arthroplasties. Atkins RM, et al. **J Arthroplasty** 1997 Jun; 12(4):461–4
Multifocal osseous blast crisis preceding marrow blastic phase in chronic myeloid leukemia. Chitalkar PG, et al. **J Assoc Physicians India** 1996 Mar;44(3):212–3
Analysis of mechanical properties of cancellous bone under conditions of simulated bone atrophy. Müller R, et al. **J Biomech** 1996 Aug;29(8):1053–60
Osseointegration in cortical sheep bone of calcium phosphate implants evaluated by PIXE method and histology. Braye F, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):315–24
The burst phenomenon, an animal model simulating the long-term tissue response on PLLA interlocking nails. van der Elst M, et al. **J Biomed Mater Res** 1996 Feb; 30(2):139–43
Three-dimensional examination of bone structure around hydroxyapatite implants using digital image processing. Wigianto R, et al. **J Biomed Mater Res** 1997 Feb; 34(2):177–82
Effects of intermittent hPTH(1-34) alone and in combination with 1,25(OH)(2)D(3) or risedronate on endosteal bone remodeling in canine cancellous and cortical bone. Boyce RW, et al. **J Bone Miner Res** 1996 May;11(5):600–13
Bone microdamage and skeletal fragility in osteoporotic and stress fractures. Burr DB, et al. **J Bone Miner Res** 1997 Jan;12(1):6–15 (67 ref.)
Altered trabecular architecture induced by corticosteroids: a bone histomorphometric study. Chappard D, et al. **J Bone Miner Res** 1996 May;11(5):676–85
Assessment of cancellous bone structure: comparison of strut analysis, trabecular bone pattern factor, and marrow space star volume. Croucher PI, et al. **J Bone Miner Res** 1996 Jul;11(7):955–61
Fractal properties of subchondral cancellous bone in severe osteoarthritis of the hip. Fazzalari NL, et al. **J Bone Miner Res** 1997 Apr;12(4):632–40
The effect of growth hormone (GH) on histomorphometric indices of bone structure and bore turnover in GH-deficient men. Bravenboer N, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1818–22
Reduced serum levels of the growth hormone–dependent insulin-like growth factor binding protein and a negative bone balance at the level of individual remodeling units in idiopathic osteoporosis in men [comment] Johansson AG, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2795–8 . Comment on: J Clin Endocrinol Metab 1997 Sep;82(9):2792–4.
Mild dental findings associated with severe osteogenesis imperfecta due to a point mutation in the alpha 2(I) collagen gene demonstrate different expression of the genetic defect in bone and teeth. Luder HU, et al. **J Craniofac Genet Dev Biol** 1996 Jul–Sep;16(3):156–63
Skeletal evidence for child abuse: a physical anthropological perspective. Walker PL, et al. **J Forensic Sci** 1997 Mar; 42(2):196–207
Bone changes and mineral metabolism disorders in rats with experimental liver cirrhosis. Nakano A, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1143–54
Stress fractures in skeletally immature patients. Walker RN, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):578–84
Systemic osteopenia and mineralization defect in patients with ankylosing spondylitis. Szejnfeld VL, et al. **J Rheumatol** 1997 Apr;24(4):683–8
Prevalence and histopathology of shell disease in turtles from Lake Blackshear, Georgia. Lovich JE, et al. **J Wildl Dis** 1996 Apr;32(2):259–65
Trace element composition and histological analysis of rat bones from the space shuttle. Yamada G, et al. **Life Sci** 1997;60(9):635–42
The examination of skeletal remains. Sarvesvaran R, et al. **Malays J Pathol** 1994 Dec;16(2):117–26 (20 ref.)
Can bone histomorphometry be predicted by clinical assessment and noninvasive techniques in peritoneal dialysis? Joffe P, et al. **Miner Electrolyte Metab** 1996; 22(4):224–33
Trends in renal osteodystrophy: a survey from 1983 to 1995 in a total of 2248 patients. Monier-Faugere MC, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:111–20
Bone biopsy—beyond light microscopy and histodynamics [editorial] Moore PR, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):659–63 (21 ref.)
Assessment of renal osteodystrophy in dialysis patients: use of bone alkaline phosphatase, bone mineral density and parathyroid ultrasound in comparison with bone histology. Fletcher S, et al. **Nephron** 1997;75(4):412–9
Bone. Ranchod M, et al. **Pathology (Phila)** 1996;3(2):535–44 (11 ref.)
Axial skeleton and pituitary gland in human fetuses with spina bifida and cranial encephalocele. Kjaer I, et al. **Pediatr Pathol Lab Med** 1996 Nov–Dec;16(6):909–26
Increased B-lymphopoiesis by interleukin 7 induces bone loss in mice with intact ovarian function: similarity to estrogen deficiency. Miyaura C, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9360–5
Consequences of prolonged inhalation of ozone on F344/N rats: collaborative studies. Part XII: Atrophy of bone in nasal turbinates. Harkema JR, et al. **Res Rep Health Eff Inst** 1997 Apr;(65 (Pt 12)):1–19; discussion 21–6
The role of bone biopsy in evaluating bone disease. Bullough PG. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):37S–43S (18 ref.)
Methods for quantitative analysis of trabecular bone structure. Cortet B, et al. **Rev Rhum Engl Ed** 1995 Dec; 62(11):781–93 (78 ref.)
Progression in length and width of pagetic lesions, and estimation of age at disease onset. Renier JC, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):35–43
Osseous manifestations of bacillary angiomatosis. Gomez-Jorge JT, et al. **Skeletal Radiol** 1996 Jul;25(5):505–8
En bloc resections of bone tumors of the thoracolumbar spine. A preliminary report on 29 patients. Boriani S, et al. **Spine** 1996 Aug 15;21(16):1927–31
Apoptosis is coordinately regulated with osteoblast formation during bone healing. Landry P, et al. **Tissue Cell** 1997 Aug; 29(4):413–9
The age-related difference in bone changes in rats induced by recombinant human granulocyte colony-stimulating factor. Suzuki M, et al. **Toxicol Pathol** 1997 Mar–Apr; 25(2):144–9
Primary leiomyosarcoma of bone. Coard KC, et al. **West Indian Med J** 1996 Dec;45(4):119–21
Prediction of bone mass in renal hyperparathyroidism by newly developed bone metabolic markers: evaluation of serum levels of carboxy-terminal pyridinoline cross-linked telopeptide of type I collagen and carboxy-terminal propeptide of type I procollagen. Katagiri M, et al. **World J Surg** 1996 Sep;20(7):753–6; discussion 756–7
[Quantitative nutritional reconstruction by trace element data] Gröbmeyer A. **Anthropol Anz** 1997 Jun;55(2):179–82 (Eng. Abstr.) **(Ger)**
[Percutaneous CT guided bone biopsy in patients with suspected bone neoplasm] Yasui K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Mar; 56(4):178–82 (Eng. Abstr.) **(Jpn)**
[Morphological and clinical study of acoustic tumor with respect to enlargement of internal auditory canal: mechanism of bone destruction] Takada Y, et al. **No Shinkei Geka** 1996 Aug;24(8):739–42 (Eng. Abstr.) **(Jpn)**
[Histomorphometric analysis of the bone tissue in patients with non-insulin-dependent diabetes (DMNID)] Leite Duarte ME, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jan–Feb;51(1):7–11 (Eng. Abstr.) **(Por)**
[Use of Masson's trichrome method for staining decalcified bone tissue] Asonova SN, et al. **Arkh Patol** 1996 Jan–Feb; 58(1):66–7 (Eng. Abstr.) **(Rus)**
[The choice of the study method in forensic medical osteological identification] Abramov SS. **Sud Med Ekspert** 1996 Oct–Dec;39(4):13–20 (Eng. Abstr.) **(Rus)**
[The complex forensic medical study of the bony remains from a burial long ago] Molin IuA, et al. **Sud Med Ekspert** 1997 Apr–Jun;40(2):38–41 (Eng. Abstr.) **(Rus)**
[The study of bone, nail and tooth fragments] Trapeznikova TA. **Sud Med Ekspert** 1996 Oct–Dec;39(4):21–2 **(Rus)**
[The diagnosis of human sex and body height from fragmented bone remains (Methodological Recommendations No. 94/267 approved by the Ministry of Health and the Medical Industry of Russia 3 July 95)] Zviagin VN, et al. **Sud Med Ekspert** 1997 Jan–Mar; 40(1):24–31 **(Rus)**
[Histo-morphometry of bone mass and cellularity using image analysis: characterization of infiltration patterns in CLL] Molina MA, et al. **Sangre (Barc)** 1996 Oct; 41(5):357–62 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Mechanical symmetry of rabbit bones studied by bending and indentation testing. An YH, et al. **Am J Vet Res** 1996 Dec;57(12):1786–9
Effect of volume variations on osteogenic capabilities of autogenous cancellous bone graft in dogs. DeVries WJ, et al. **Am J Vet Res** 1996 Oct;57(10):1501–5
Histo-anatomy of the proximal femur in rats: impact of ovariectomy on bone mass, structure, and stiffness. Bagi CM, et al. **Anat Rec** 1996 Aug;245(4):633–44
Indirect way to estimate peak joint loads in life and in skeletal remains (insights from a new paradigm). Frost HM. **Anat Rec** 1997 Jul;248(3):475–83
Bone biology. Ng KW, et al. **Baillieres Clin Endocrinol Metab** 1997 Apr;11(1):1–22 (104 ref.)
Neutron anatomy. Bacon GE. **Basic Life Sci** 1996;64:17–27
Surface-dimpled commercially pure titanium implant and bone ingrowth. Li J, et al. **Biomaterials** 1997 May; 18(9):691–6
Calcification of cross-linked collagen-elastin membrane implants in vivo and their proposed use in bone regeneration. Vardaxis NJ, et al. **Biomaterials** 1996 Aug; 17(15):1489–97
Bone stiffness changes due to microdamage under different loadings. Pidaparti RM, et al. **Biomed Mater Eng** 1997; 7(3):193–203
Piezoelectricity of biopolymers. Fukada E. **Biorheology** 1995 Nov–Dec;32(6):593–609 (25 ref.)
25th European Symposium on Calcified Tissues. Harrogate, United Kingdom, 25–29 April 1997. Abstracts. **Bone** 1997 Apr;20(4 Suppl):1S–140S
Strain magnitude related changes in whole bone architecture in growing rats. Mosley JR, et al. **Bone** 1997 Mar; 20(3):191–8
Long-term effects of ovariectomy on the mechanical properties and chemical composition of rat bone. Peng ZQ, et al. **Bone** 1997 Mar;20(3):207–12
Low bone mass and fast rate of bone loss at menopause: equal risk factors for future fracture: a 15-year follow-up study. Riis BJ, et al. **Bone** 1996 Jul;19(1):9–12
Adaptation of bone to altered loading environment: a biomechanical approach using X-ray absorptiometric data from the patella of a young woman. Sievänen H, et al. **Bone** 1996 Jul;19(1):55–9
A comparison of the effects of two anabolic agents (fluoride and PTH) on ash density and bone strength assessed in an osteopenic rat model. Søgaard CH, et al. **Bone** 1997 May;20(5):439–49
Tissue adaptation as a dynamical process far from equilibrium. Weinans H, et al. **Bone** 1996 Aug;19(2):143–9 (75 ref.)
The Michael Mason Prize Essay 1997. Nitric oxide and bone: what a gas! Ralston SH. **Br J Rheumatol** 1997 Aug; 36(8):831–8 (87 ref.)
Bone characteristics and body weight of broilers in different husbandry systems. Tolon B, et al. **Br Poult Sci** 1997 May; 38(2):132–5
SEIOMM (Spanish Society for Bone and Mineral Research) Symposium. Alicante, Spain, October 4–7, 1995. Abstracts. **Calcif Tissue Int** 1996 Apr;58(4):283–305
Diurnal variation of bone mineral turnover in elderly men and women. Greenspan SL, et al. **Calcif Tissue Int** 1997 May;60(5):419–23
Discrimination of spinal fracture with various bone mineral measurements. Ito M, et al. **Calcif Tissue Int** 1997 Jan; 60(1):11–5
Casodex (a nonsteroidal antiandrogen) reduces cancellous, endosteal, and periosteal bone formation in estrogen-replete female rats. Lea C, et al. **Calcif Tissue Int** 1996 Apr;58(4):268–72
Radial cortical and trabecular bone densities of men and women standardized with the European Forearm Phantom. Reeve J, et al. **Calcif Tissue Int** 1996 Mar;58(3):135–43
A microtomographic system for the nondestructive evaluation of bone architecture. Rüegsegger P, et al. **Calcif Tissue Int** 1996 Jan;58(1):24–9
Effects of moderate endurance exercise on calcium, parathyroid hormone, and markers of bone metabolism in young women. Thorsen K, et al. **Calcif Tissue Int** 1997 Jan;60(1):16–20
Long-term growth hormone-releasing factor administration on growth hormone, insulin-like growth factor-I concentrations, and bone healing in the Beagle. Dubreuil P, et al. **Can J Vet Res** 1996 Jan;60(1):7–13
Demonstration of alkaline phosphatase participation in the mineralization of osteoblasts by antisense RNA approach. Torii Y, et al. **Cell Biol Int** 1996 Jul;20(7):459–64
Morphology and matrix composition during early tendon to bone healing. Liu SH, et al. **Clin Orthop** 1997 Jun; (339):253–60
Kangaroo rat bone compared to white rat bone after short-term disuse and exercise. Muths E, et al. **Comp Biochem Physiol A Physiol** 1996 Aug;114(4):355–61
The role of implant surface characteristics in the healing of bone. Kieswetter K, et al. **Crit Rev Oral Biol Med** 1996; 7(4):329–45 (121 ref.)
Bony foramina facilitate magnetic stimulation: an experimental cat sciatic nerve model. Kobayashi M, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb; 105(1):79–85
Parathyroid hormone and osteocalcin—when friends become strangers [editorial; comment] Kronenberg HM. **Endocrinology** 1997 Aug;138(8):3083–4. Comment on: Endocrinology 1997 Aug;138(8):3085–92.
Biosynthetic human parathyroid hormone (1–34) effects on bone quality in aged ovariectomized rats. Sato M, et al. **Endocrinology** 1997 Oct;138(10):4330–7
Dissection of the molecular mechanism of action of GW5638,

a novel estrogen receptor ligand, provides insights into the role of estrogen receptor in bone. Willson TM, et al. **Endocrinology** 1997 Sep;138(9):3901–11

Non-invasive measurement of bone: a review of clinical and research applications in the horse. Jeffcott LB, et al. **Equine Vet J Suppl** 1988 Sep;(6):71–9 (56 ref.)

The physiological basis of training the skeleton.The Sir Frederick Smith Memorial Lecture. Lanyon LE. **Equine Vet J Suppl** 1990 Jun;(9):8–13

Bone fragments stimulate equine synovial lining cells to produce the inflammatory mediator prostaglandin E2. May SA, et al. **Equine Vet J Suppl** 1988 Sep;(6):131–2

Characterisation of arm microvibration recorded on an accelerometer. Gallasch E, et al. **Eur J Appl Physiol** 1997; 75(3):226–32

Influence of muscle strength on bone strength during childhood and adolescence. Schönau E, et al. **Horm Res** 1996;45 Suppl 1:63–6

Androgens and their role in skeletal homeostasis. Vanderschueren D. **Horm Res** 1996;46(2):95–8 (20 ref.)

Dielectric studies of proton transport in air-dried fully calcified and decalcified bone. Marzec E, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):27–31

Effect of drill speed on bone temperature. Abouzgia MB, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):394–9

Age considerations in nutrient needs for bone health: older adults. Heaney RP. **J Am Coll Nutr** 1996 Dec;15(6):575–8 (19 ref.)

Age considerations in nutrient needs for bone health. Miller GD, et al. **J Am Coll Nutr** 1996 Dec;15(6):553–5 (23 ref.)

Skeletal alteration to improve beef longissimus muscle tenderness. Ludwig CJ, et al. **J Anim Sci** 1997 Sep; 75(9):2404–10

Effects of vigorous exercise training and beta-agonist administration on bone response to hindlimb suspension. Bloomfield SA, et al. **J Appl Physiol** 1997 Jul;83(1):172–8

Testing the daily stress stimulus theory of bone adaptation with natural and experimentally controlled strain histories. Adams DJ, et al. **J Biomech** 1997 Jul;30(7):671–8

On the mechanical characterization of compact bone structure using the homogenization theory. Aoubiza B, et al. **J Biomech** 1996 Dec;29(12):1539–47

The tensile behavior of demineralized bovine cortical bone. Bowman SM, et al. **J Biomech** 1996 Nov;29(11):1497–501

The dependence of shear failure properties of trabecular bone on apparent density and trabecular orientation. Ford CM, et al. **J Biomech** 1996 Oct;29(10):1309–17

Calcium buffering is required to maintain bone stiffness in saline solution. Gustafson MB, et al. **J Biomech** 1996 Sep; 29(9):1191–4

A method suitable for in vivo measurement of bone strain in humans. Hoshaw SJ, et al. **J Biomech** 1997 May; 30(5):521–4

Fluid conductance of cancellous bone graft as a predictor for graft-host interface healing. Hui PW, et al. **J Biomech** 1996 Jan;29(1):123–32

Intracellular Ca2+ stores and extracellular Ca2+ are required in the real-time Ca2+ response of bone cells experiencing fluid flow. Hung CT, et al. **J Biomech** 1996 Nov;29(11):1411–7

Adaptation of bone to physiological stimuli. Judex S, et al. **J Biomech** 1997 May;30(5):421–9

Temporal stability of node-based internal bone adaptation simulations. Levenston ME. **J Biomech** 1997 Apr; 30(4):403–7

Deformation-induced hierarchical flows and drag forces in bone canaliculi and matrix microporosity. Mak AF, et al. **J Biomech** 1997 Jan;30(1):11–8

Collagen fiber organization is related to mechanical properties and remodeling in equine bone. A comparison of two methods. Martin RB, et al. **J Biomech** 1996 Dec; 29(12):1515–21

Modelling muscle activity in standing with considerations for bone safety. Munih M, et al. **J Biomech** 1997 Jan; 30(1):49–56

Resistance to crack growth in human cortical bone is greater in shear than in tension. Norman TL, et al. **J Biomech** 1996 Aug;29(8):1023–31

Fabric and elastic principal directions of cancellous bone are closely related. Odgaard A, et al. **J Biomech** 1997 May; 30(5):487–95

Cyclic mechanical property degradation during fatigue loading of cortical bone. Pattin CA, et al. **J Biomech** 1996 Jan;29(1):69–79

Bone mineral lies mainly outside collagen fibrils: predictions of a composite model for osteonal bone. Pidaparti RM, et al. **J Biomech** 1996 Jul;29(7):909–16

Cancellous bone architecture: advantages of nonorthogonal trabecular alignment under multidirectional joint loading. Pidaparti RM, et al. **J Biomech** 1997 Sep;30(9):979–83

Noninvasive determination of bone mechanical properties using vibration response: a refined model and validation in vivo. Roberts SG, et al. **J Biomech** 1996 Jan;29(1):91–8

A uniform strain criterion for trabecular bone adaptation: do continuum-level strain gradients drive adaptation? Turner CH, et al. **J Biomech** 1997 Jun;30(6):555–63

Comments on 'compact bone: numerical simulation of mechanical characteristics' [letter; comment] Zhang N, et al. **J Biomech** 1996 Dec;29(12):1673–8. Comment on: J Biomech 1993 Jun;26(6):677–87.

Experimental and theoretical quantification of the development of damage in fatigue tests of bone and antler. Zioupos P, et al. **J Biomech** 1996 Aug;29(8):989–1002

Bilateral symmetry of biomechanical properties in rat femora. Battraw GA, et al. **J Biomed Mater Res** 1996 Oct; 32(2):285–8

Nondestructive measurements of implant-bone interface shear modulus and effects of implant geometry in pull-out tests. Berzins A, et al. **J Biomed Mater Res** 1997 Mar 5; 34(3):337–40

Activation of osteoclast-mediated bone resorption by the supernatant from a rabbit synovial cell line in response to polyethylene particles. Kim KJ, et al. **J Biomed Mater Res** 1996 Sep;32(1):3–9

Testing of bone-biomaterial interfacial bonding strength: a comparison of different techniques. Wang X, et al. **J Biomed Mater Res** 1996 Fall;33(3):133–8

Age-related changes in the compressive strength of cancellous bone. The relative importance of changes in density and trabecular architecture. McCalden RW, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):421–7

Clinical implications of stiffness and strength changes in fracture healing. Chehade MJ, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):9–12

The effects of particulate polyethylene at a weight-bearing bone–implant interface [letter; comment] Karahan M, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):340–1. Comment on: J Bone Joint Surg Br 1996 Jan;78(1):32–7.

Bone quality factor analysis: a new noninvasive technique for the measurement of bone density and bone strength. Abbasi-Jahromi SH, et al. **J Bone Miner Res** 1996 May; 11(5):594–9

A digital model of trabecular bone. Engelke K, et al. **J Bone Miner Res** 1996 Apr;11(4):480–9

Osteopontin deposition in remodeling bone: an osteoblast mediated event [letter; comment] McKee MD, et al. **J Bone Miner Res** 1996 Jun;11(6):873–5. Comment on: J Bone Miner Res 1995 Nov;10(11):1666–80.

Electrophysiological responses of human bone cells to mechanical stimulation: evidence for specific integrin function in mechanotransduction. Salter DM, et al. **J Bone Miner Res** 1997 Jul;12(7):1133–41

High-impact exercise promotes bone gain in well-trained female athletes. Taaffe DR, et al. **J Bone Miner Res** 1997 Feb;12(2):255–60

Retinoic acid stimulates the transcription of insulin-like growth factor binding protein-6 in skeletal cells. Gabbitas B, et al. **J Cell Physiol** 1996 Oct;169(1):15–22

Bone health is not affected by luteal phase abnormalities and decreased ovarian progesterone production in female runners. De Souza MJ, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2867–76

Invited review of a workshop: anabolic hormones in bone: basic research and therapeutic potential. Margolis RN, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):872–7 (60 ref.)

In situ microdialysis in bone tissue. Stimulation of prostaglandin E2 release by weight-bearing mechanical loading. Thorsen K, et al. **J Clin Invest** 1996 Dec 1; 98(11):2446–9

Cellular mechanisms of bone repair. Probst A, et al. **J Invest Surg** 1997 May–Jun;10(3):77–86 (63 ref.)

Cortical elasticity in aging rats with and without growth hormone treatments. Kohles SS, et al. **J Med Eng Technol** 1996 Jul–Oct;20(4–5):157–63

Use of growth hormone for non-growth hormone deficient children [letter; comment] Voron DA. **JAMA** 1996 Dec 18;276(23):1878; discussion 1878. Comment on: JAMA 1996 Aug 21;276(7):567–8.

Skeletal "impact" of exercise [comment] Marcus R. **Lancet** 1996 Nov 16;348(9038):1326–7. Comment on: Lancet 1996 Nov 16;348(9038):1343–7.

Hormones and bones. Rizzoli R, et al. **Lancet** 1997 Mar;349 Suppl 1:sl20–3 (32 ref.)

Changes in the cortical and trabecular bone compartments with different types of menopause measured by peripheral quantitative computed tomography. Hernández ER, et al. **Maturitas** 1996 Feb;23(1):23–9

Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones. Bigot G, et al. **Med Eng Phys** 1996 Jan;18(1):79–87

A cost-effective, accurate machine for testing the torsional strength of sheep long bones. Jämsä T, et al. **Med Eng Phys** 1996 Jul;18(5):433–5

Orthogonal relationships between ultrasonic velocity and material properties of bovine cancellous bone. Njeh CF, et al. **Med Eng Phys** 1996 Jul;18(5):373–81

Mechanical optimization of bone. Chigira M. **Med Hypotheses** 1996 Apr;46(4):327–30 (39 ref.)

A study of dielectric anisotropy in dehydrated cortical bone. García Sánchez FJ, et al. **Med Prog Technol** 1995–96; 21(3):165–70

Musculoskeletal adaptations to weightlessness and development of effective countermeasures. Baldwin KM, et al. **Med Sci Sports Exerc** 1996 Oct;28(10):1247–53

Apoptosis in bone physiology and disease. Hughes DE, et al. **Mol Pathol** 1997 Jun;50(3):132–7 (53 ref.)

Skeletal functions of vitamin K-dependent proteins: not just for clotting anymore. Booth SL. **Nutr Rev** 1997 Jul; 55(7):282–4 (15 ref.)

The dielectric properties of biological tissues: I. Literature survey. Gabriel C, et al. **Phys Med Biol** 1996 Nov; 41(11):2231–49 (64 ref.)

Simultaneous measurement of stiffness and energy absorptive properties of articular cartilage and subchondral trabecular bone. Røhl L, et al. **Proc Inst Mech Eng [H]** 1997; 211(3):257–64

Young's moduli and shear moduli in cortical bone. Spatz HC, et al. **Proc R Soc Lond B Biol Sci** 1996 Mar 22; 263(1368):287–94

Prostaglandin release from rat femurs after implantation of hydroxylapatite and aluminium oxide ceramics. Wittenberg JM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1995 Dec;53(6):413–7

Measurement of velocity and attenuation of shear waves in bovine compact bone using ultrasonic spectroscopy. Wu J, et al. **Ultrasound Med Biol** 1997;23(1):129–34

Skeletal origins of exercise intolerance in horses. Gaughan EM. **Vet Clin North Am Equine Pract** 1996 Dec; 12(3):517–35 (26 ref.)

[Calcitonin and bone aging] Reginster JY. **Pathol Biol (Paris)** 1997 Jan;45(1):52–6 (37 ref.) (Eng. Abstr.) **(Fre)**

[A method for determining the biomechanical properties of trabecular and spongiosa bone tissue] Samelin N, et al. **Biomed Tech (Berl)** 1996 Jul–Aug;41(7–8):203–8 (Eng. Abstr.) **(Ger)**

[Bone tensile strength and hydrostatic stress] Winter W. **Biomed Tech (Berl)** 1996 Jul–Aug;41(7–8):209–12 (Eng. Abstr.) **(Ger)**

[Biochemical markers for bone activity and osteoporosis] Antognozzi G, et al. **Riv Eur Sci Med Farmacol** 1995 Nov–Dec;17(6):237–41 (34 ref.) (Eng. Abstr.) **(Ita)**

[The replacement processes of growth plate cartilage to bone in endochondral ossification of mandibular condyle] Sasaki T, et al. **Kaibogaku Zasshi** 1996 Apr;71(2):106–14 (Eng. Abstr.) **(Jpn)**

[Proceedings of the 11th annual orthopaedic research meeting of the Japanese Orthopaedic Association. Kagoshima, October 17–18, 1996. Abstracts] **Nippon Seikeigeka Gakkai Zasshi** 1996 Aug; 70(8):S1167–658 **(Jpn)**

[The quality of bone] Nakamura T. **Sangyo Ika Daigaku Zasshi** 1997 Jun 1;19(2):157–64 (20 ref.) (Eng. Abstr.) **(Jpn)**

[The effect of rehydration on the elasticity modulus and strength of lyophilised and irradiated femur bone in the human] Grzegorczyn S, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):593–9 (Eng. Abstr.) **(Pol)**

[Examination of the mechanical properties of bone] Mazurkiewicz S. **Przegl Lek** 1997;54(4):237–42 (16 ref.) (Eng. Abstr.) **(Pol)**

[Cellular basis of bone tissue development] Rosselot G, et al. **Rev Med Chil** 1996 Aug;124(8 Suppl):15–20 (25 ref.) **(Spa)**

PHYSIOPATHOLOGY

Skeletal status of men with early and late ankylosing spondylitis. Lee YS, et al. **Am J Med** 1997 Sep; 103(3):233–41

The skeletal effects of primary hyperparathyroidism. Grey AB. **Baillieres Clin Endocrinol Metab** 1997 Apr; 11(1):101–16 (103 ref.)

No loss of biomechanical effects after withdrawal of short-term PTH treatment in an aged, osteopenic, ovariectomized rat model. Mosekilde L, et al. **Bone** 1997 May;20(5):429–37

Time responses of cancellous and cortical bones to sciatic neurectomy in growing female rats. Zeng QQ, et al. **Bone** 1996 Jul;19(1):13–21

Bone mineral density and turnover following forelimb immobilization and recovery in young adult dogs. Lane NE, et al. **Calcif Tissue Int** 1996 Nov;59(5):401–6

Dietary xylitol retards the ovariectomy-induced increase of bone turnover in rats. Svanberg M, et al. **Calcif Tissue Int** 1997 May;60(5):462–6

Hypophosphatemic osteomalacia in an elderly patient with generalized bone pain [letter] Jansen TL, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):225–6

The parathyroid–bone axis in uremia: new insights into old questions. Hory B, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):40–8 (94 ref.)

24R,25-dihydroxyvitamin D3: an essential vitamin D3 metabolite for both normal bone integrity and healing of tibial fracture in chicks. Seo EG, et al. **Endocrinology** 1997 Sep;138(9):3864–72

Importance of estrogens in human males' fertility and bone pathophysiology. Asteria C. **Eur J Endocrinol** 1997 Aug; 137(2):120–1

The effect of speed, pressure, and time on bone temperature during the drilling of implant sites. Brisman DL. **Int J Oral Maxillofac Implants** 1996 Jan–Feb;11(1):35–7

Age-related differences in post-yield damage in human cortical bone. Experiment and model. Courtney AC, et al. **J Biomech** 1996 Nov;29(11):1463–71

Residual strength of equine bone is not reduced by intense fatigue loading: implications for stress fracture. Martin RB, et al. **J Biomech** 1997 Feb;30(2):109–14

Dual-energy X-ray absorptiometry for histologic bone sections. Denissen H, et al. **J Bone Miner Res** 1996 May; 11(5):638–44

Effects of hysterectomy on bone in intact rats, ovariectomized rats, and ovariectomized rats treated with estrogen. Goulding A, et al. **J Bone Miner Res** 1996 Jul; 11(7):977–83

Bone-selective analogs of human PTH(1–34) increase bone

formation in an ovariectomized rat model. Lane NE, et al. **J Bone Miner Res** 1996 May;11(5):614–25

Composition and mechanical properties of cancellous bone from the femoral head of patients with osteoporosis or osteoarthritis. Li B, et al. **J Bone Miner Res** 1997 Apr; 12(4):641–51

Changes in bone metabolism and epiphysial growth plate in bovine Hyena disease induced by administration of vitamin AD3E premix or Vitamin A. Takaki H, et al. **J Vet Med Sci** 1996 May;58(5):407–12

Dynamic fracture characteristics of the osteochondral junction undergoing shear deformation. Broom ND, et al. **Med Eng Phys** 1996 Jul;18(5):396–404

The loss of stiffness as osteoporosis progresses. Werner HJ, et al. **Med Eng Phys** 1996 Oct;18(7):601–6

Trabecular bone architecture in female renal allograft recipients—assessed by computed tomography. Grotz WH, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):564–9

Abnormal skeletal response to parathyroid hormone and the expression of its receptor in chronic uremia. Drüeke TB. **Pediatr Nephrol** 1996 Jun;10(3):348–50 (23 ref.)

Cytokines and the pathophysiology of bone erosions in rheumatoid arthritis. Miossec P. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):89S–91S (15 ref.)

Treatment of segmental defects in long bones using osteopromotive membranes and recombinant human bone morphogenetic protein–2. An experimental study in rabbits. Zellin G, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun;31(2):97–104

RADIATION EFFECTS

Extracorporeal irradiation and incorporation of bone grafts. Autogeneic cortical grafts studied in rats. Voggenreiter G, et al. **Acta Orthop Scand** 1996 Dec;67(6):583–8

Effect of a growth hormone treatment on bone orthotropic elasticity in dwarf rats. Kohles SS, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):77–85

Proton dosimetry in bone using electron spin resonance. Copeland JF, et al. **Appl Radiat Isot** 1996 Nov–Dec; 47(11–12):1533–8

Influencing factors on ESR bone dosimetry. Onori S, et al. **Appl Radiat Isot** 1996 Nov–Dec;47(11–12):1637–40

Radiation dosimetry of an accidental overexposure using EPR spectrometry and imaging of human bone. Schauer DA, et al. **Appl Radiat Isot** 1996 Nov–Dec; 47(11–12):1345–50

A response of L-alpha-alanine and standard bone powder on 3.4 MeV/amu 59Co ion beams. Stuglik Z, et al. **Appl Radiat Isot** 1996 Nov–Dec;47(11–12):1219–22

Complications following definitive irradiation for cancers of the oral cavity and the oropharynx (in a series of 1134 patients). Pernot M, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):577–85

Dose responses from inhaled monodisperse aerosols of 244Cm2O3 in the lung, liver and skeleton of F344 rats and comparison with 239PuO2. Lundgren DL, et al. **Radiat Res** 1997 May;147(5):598–612

[Skeletal changes induced by radiotherapy. A study of subjects with retinoblastoma. II] Mascagni EE, et al. **Minerva Stomatol** 1997 May;46(5):233–46 (67 ref.) (Eng. Abstr.) **(Ita)**

[Photochemical reactions in bone tissue induced by excimer laser ultraviolet] Kita I MS, et al. **Biofizika** 1996 Sep–Oct; 41(5):1137–44 (Eng. Abstr.) **(Rus)**

[Experimental study of biological tissue permeability to Nd-YAG laser irradiation with wave length 1.06 and 1.32 mm] Semenov FV. **Vestn Otorinolaringol** 1997;(3):38–41 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Physical and clinical evaluation of a 2,048 x 2,048-matrix image intensifier TV digital imaging system in bone radiography. Higashida Y, et al. **Acad Radiol** 1996 Oct; 3(10):842–8

Differences in time to interpretation for evaluation of bone radiographs with monitor and film viewing. Krupinski EA, et al. **Acad Radiol** 1997 Mar;4(3):177–82

Comparison of conventional and computed radiography: assessment of image quality and reader performance in skeletal extremity trauma. Lund PJ, et al. **Acad Radiol** 1997 Aug;4(8):570–6

Radiography and bone scintigraphy in bone marrow transplant multiple myeloma patients. Agren B, et al. **Acta Radiol** 1997 Jan;38(1):144–50

Musculoskeletal case of the day. Chronic recurrent multifocal osteomyelitis (CRMO). Hatem SF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):285, 289–91

Routine use of a higher order interpolator and bone algorithm in thoracic CT. Hopper KD, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):947–9

Follow-up skeletal surveys in suspected child abuse. Kleinman PK, et al. **AJR Am J Roentgenol** 1996 Oct; 167(4):893–6

Acampomelic campomelic dysplasia: further radiographic variations. Glass RB, et al. **Am J Med Genet** 1997 Mar 3;69(1):29–32

Longitudinal analysis of radiographic trabecular pattern by image processing. Korstjens CM, et al. **Bone** 1995 Dec; 17(6):527–32

Fluoride pharmacokinetics and changes in lumbar spine and hip bone mineral density. Patel S, et al. **Bone** 1996 Dec; 19(6):651–5

Repeat radiographs in GP referrals to an orthopaedic clinic. Beggs I. **Br J Gen Pract** 1997 May;47(418):313

Microfocal techniques in quantitative radiography: measurement of cancellous bone organization. Buckland-Wright JC, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:18–22

Bone involvement in Gaucher's disease: 'bone crisis' or disease complication? La Civita L, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):195–8

Orthopedic implants: a guide to radiographic analysis. Goitz HT, et al. **Curr Probl Diagn Radiol** 1996 Jul–Aug; 25(4):109–68 (43 ref.)

Radiological diagnosis of osteoporosis. Grampp S, et al. **Eur Radiol** 1997;7 Suppl 2:S11–9 (76 ref.)

Quantitative computed tomography at the axial and peripheral skeleton. Guglielmi G, et al. **Eur Radiol** 1997; 7 Suppl 2:S32–42 (91 ref.)

Correlation of ultrasound bone velocity with dual-energy X-ray bone absorptiometry in rat bone specimens. Amo C, et al. **Invest Radiol** 1996 Feb;31(2):114–7

Use of a biocompatible fiducial marker in evaluating the accuracy of computed tomography image registration. Ellis R, et al. **Invest Radiol** 1996 Oct;31(10):658–67

Noninvasive assessment of bone mineral and structure: state of the art. Genant HK, et al. **J Bone Miner Res** 1996 Jun; 11(6):707–30 (273 ref.)

In vivo reproducibility of three-dimensional structural properties of noninvasive bone biopsies using 3D-pQCT. Müller R, et al. **J Bone Miner Res** 1996 Nov;11(11):1745–50

Regional bone mineral density interrelationships in normal and osteoporotic postmenopausal women. Nordin BE, et al. **J Bone Miner Res** 1996 Jun;11(6):849–56

Multiplanar image reconstruction and 3D imaging using a musculoskeletal phantom: conventional versus helical CT. Kasales CJ, et al. **J Comput Assist Tomogr** 1997 Jan–Feb; 21(1):162–9

Variation of monitor luminance on radiologist productivity in the interpretation of skeletal radiographs using a picture archiving and communication system. Reiner B, et al. **J Digit Imaging** 1997 Aug;10(3 Suppl 1):176

Optical and digital techniques for enhancing radiographic anatomy for identification of human remains. Fitzpatrick JJ, et al. **J Forensic Sci** 1996 Nov;41(6):947–59

Radiograph processing for quantitative assessment of bone remodelling. Audenino AL, et al. **Med Eng Phys** 1996 Jul; 18(5):382–9

X-ray imaging technique for in vitro tissue composition measurements using saline/iodine displacement: technique optimization. Moreau M, et al. **Med Phys** 1997 Jan; 24(1):37–49

Volumetric bone mineral density using peripheral quantitative computed tomography in Japanese women. Hasegawa Y, et al. **Osteoporos Int** 1997;7(3):195–9

Skeletal deformities of acardius anceps: the gross and imaging features. Chen CP, et al. **Pediatr Radiol** 1997 Mar; 27(3):221–5

Aggressive bone destruction in acute megakaryocytic leukemia: a rare presentation. Fisher D, et al. **Pediatr Radiol** 1997 Jan;27(1):20–2

Musculoskeletal computed radiography in children: scatter reduction and improvement in bony trabecular sharpness using air gap placement of the imaging plate. Kottamasu SR, et al. **Pediatr Radiol** 1997 Feb;27(2):119–23

Pediatric musculoskeletal computed radiography. Kottamasu SR, et al. **Pediatr Radiol** 1997 Jul;27(7):563–75 (25 ref.)

Monochromatic microtomographic imaging of osteoporotic bone. Kirby BJ, et al. **Phys Med Biol** 1997 Jul;42(7):1375–85

X-ray microtomography of bones and teeth. Davis GR, et al. **Physiol Meas** 1996 Aug;17(3):121–46 (59 ref.)

Extensive intraosseous gas associated with lymphangiomatosis of bone: report of three cases. Brown RR, et al. **Radiology** 1997 Oct;205(1):260–2

Skeletal findings in Marinesco–Sjögren syndrome. Brogdon BG, et al. **Skeletal Radiol** 1996 Jul;25(5):461–5

Skin and bones: dermatologic conditions with skeletal abnormalities. Harlow CL, et al. **Skeletal Radiol** 1997 Apr; 26(4):201–13 (48 ref.)

Skeletal abnormalities of hands and feet in Laurence–Moon–Bardet–Biedl (LMBB) syndrome: a radiographic study. Rudling O, et al. **Skeletal Radiol** 1996 Oct;25(7):655–60

Ultrasound bone densitometry and dual energy X-ray absorptiometry in patients with spinal cord injury: a cross-sectional study. Chow YW, et al. **Spinal Cord** 1996 Dec;34(12):736–41

Ultrasonographic and radiologic visualization of the developing embryonic skeleton [see comments] van Zalen-Sprock RM, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):392–7. Comment in: Ultrasound Obstet Gynecol 1997 Jun;9(6):373.

[Comparison between direct radiographic enlargement and mammography technique in detection of osseous changes of the hand skeleton in hyperparathyroidism] Müller-Miny H, et al. **Radiologe** 1996 Oct;36(10):834–9 (Eng. Abstr.) **(Ger)**

[A case report of Erdheim–Chester disease] Furutani K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):681–3 (Eng. Abstr.) **(Jpn)**

[Endemic fluorosis in southern China: radiological findings] Watanabe T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jun;57(7):425–6 (Eng. Abstr.) **(Jpn)**

[Measurement of bone structure on the radiograph. Utopia or reality?] Czerwiński E. **Pol Merkuriusz Lek** 1996 Nov; 1(5):319–21 (Eng. Abstr.) **(Pol)**

[The value of radiologic examination of bones as part of hospital admissions procedures] Samojedny A, et al. **Pol Merkuriusz Lek** 1996 Dec;1(6):404–6 (Eng. Abstr.) **(Pol)**

[Computer analysis of the radiographic image of bones and joints] Czerwiński E, et al. **Przegl Lek** 1997;54(4):257–9 (Eng. Abstr.) **(Pol)**

RADIONUCLIDE IMAGING

Radiography and bone scintigraphy in bone marrow transplant multiple myeloma patients. Agren B, et al. **Acta Radiol** 1997 Jan;38(1):144–50

Dynamic scintigraphy of bone and bone marrow in multiple myeloma patients with bone–marrow transplants. Agren B, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):533–8

Activity in the gastrointestinal tract after administration of bone-seeking radiopharmaceuticals. Experimental studies in mice. Cronhjort M, et al. **Acta Radiol** 1996 Sep; 37(5):785–90

Three-phase bone scan in osteomyelitis and other musculoskeletal disorders. Sutter CW, et al. **Am Fam Physician** 1996 Oct;54(5):1639–47 (26 ref.)

Gastric uptake during Re-186 HEDP bone scintigraphy. Limouris GS, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1779–81

Comparison of bone scanning and CA 15-3 serum concentration in the follow-up of breast cancer. Montravers F, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1683–6

Technetium-99m-alendronate: a new radiopharmaceutical for bone scanning. Arteaga de Murphy C, et al. **Arch Med Res** 1996 Winter;27(4):481–3

Relationship between biochemical markers of bone turnover and bone scintigraphic indices in assessment of Paget's disease activity. Alvarez L, et al. **Arthritis Rheum** 1997 Mar;40(3):461–8

Case report: acute segmental radiation nephritis on bone scintigraphy. Flanagan FL, et al. **Br J Radiol** 1996 Dec; 69(828):1175–7

Etidronate therapy decreases the sensitivity of bone scanning with methylene diphosphonate labelled with technetium-99m. Murphy KJ, et al. **Can Assoc Radiol J** 1997 Jun;48(3):199–202

Can (99m)technetium methylene diphosphonate bone scans objectively document costochondritis? Mendelson G, et al. **Chest** 1997 Jun;111(6):1600–2

Malignant fibrous histiocytoma manifested as photopenia on bone scintigraphy: a case report. Lee JK, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Sep;58(3):230–3

Increased radionuclide uptake on bone scintiscans: a common but not clinically significant finding for human immunodeficiency virus type 1–infected patients free of osteoarticular symptoms. Rubiés-Prat J, et al. **Clin Infect Dis** 1996 Jul;23(1):170–2

Colon visualization on a bone scan from metastatic ovarian carcinoma: SPECT correlation. Bader DA. **Clin Nucl Med** 1997 Jan;22(1):52–4

Vesico-colic fistula. An unexpected finding on Tc-99m MDP bone imaging. Balan KK, et al. **Clin Nucl Med** 1997 Mar; 22(3):192–3

Incidental finding of accessory spleen on bone scintigraphy. Castellani M, et al. **Clin Nucl Med** 1996 Dec;21(12):967

Appearance of a common catheter in an uncommon location. Gandhi SM, et al. **Clin Nucl Med** 1996 Dec;21(12):973–4

Tc-99m MDP bone scintigraphy in relapsing polychondritis. Güngör F, et al. **Clin Nucl Med** 1997 Apr;22(4):264–6

Visualization of bone structure with Tc-99m MIBI in a patient on hemodialysis. Kinuya S, et al. **Clin Nucl Med** 1997 May;22(5):331–2

I-131 accumulation in folliculitis of the scalp. Kinuya S, et al. **Clin Nucl Med** 1996 Oct;21(10):807–8

Functional bone imaging in the detection of ischemic osteopathies. MacLeod MA, et al. **Clin Nucl Med** 1997 Jan; 22(1):1–5

Metastatic disease to the thoracic spine. Simultaneous In-III WBC and bone scan findings after radiation therapy. Moser AS, et al. **Clin Nucl Med** 1997 May;22(5):333–4

Ureteroenteric fistula shown only on bone imaging. Ohta M, et al. **Clin Nucl Med** 1997 Jul;22(7):494–6

Bone scan in strenuous abdominal muscular exercise. Rimkus DS, et al. **Clin Nucl Med** 1996 Aug;21(8):648

Bone scan of advanced polycythemia vera with malignant transformation. Seymour PC, et al. **Clin Nucl Med** 1996 Nov;21(11):844–6

Polyostotic fibrous dysplasia in McCune–Albright syndrome diagnosed by bone scintigraphy. Sisayan R, et al. **Clin Nucl Med** 1997 Jun;22(6):410–2

Bone scan findings in Kienböck's disease. A case report with atypical findings and literature review. Stuckey SL, et al. **Clin Nucl Med** 1997 Jul;22(7):481–3 (8 ref.)

Focal pyelonephritis. Extraosseous accumulation of bone-seeking radiopharmaceutical. Sty JR, et al. **Clin Nucl Med** 1996 Jul;21(7):573

Reversal of Ga-67 'bone scan' with vitamin B12 therapy in a patient with pernicious anemia. Suga K, et al. **Clin Nucl Med** 1997 Aug;22(8):561–2

Bone scintigraphy of drug-induced rhabdomyolysis: antihyperlipidemia agent. Takayama T, et al.

Clin Nucl Med 1996 Dec;21(12):988–9

Delayed epiphyseal closure attributable to androgen deficiency. Van de Wiele C, et al. **Clin Nucl Med** 1997 Aug;22(8):567–8

Cold spots on bone scans in patients wearing weighted breast prostheses. Wahner-Roedler DL, et al. **Clin Nucl Med** 1996 Oct;21(10):776–9

Radionuclide imaging of infection in soft tissue and bone. Strauss HW, et al. **Curr Clin Top Infect Dis** 1997;17:95–109 (64 ref.)

A variant alkaline phosphatase-producing gastric carcinoma with super bone scan. Tokushima K, et al. **Dig Dis Sci** 1997 Jan;42(1):66–73

Age-related changes in the global skeletal uptake of technetium-99m methylene diphosphonate in healthy women. Carnevale V, et al. **Eur J Nucl Med** 1996 Nov; 23(11):1473–7

Bone mineral density and bone scintigraphy in children and adolescents with osteomalacia. El-Desouki M, et al. **Eur J Nucl Med** 1997 Feb;24(2):202–5

Procedure guideline for bone scintigraphy: 1.0. Society of Nuclear Medicine. Donohoe KJ, et al. **J Nucl Med** 1996 Nov;37(11):1903–6

Reversible extraskeletal uptake of bone scanning in primary hyperparathyroidism. Hwang GJ, et al. **J Nucl Med** 1996 Mar;37(3):469–71

Age-related change of technetium-99m-HMDP distribution in the skeleton. Kigami Y, et al. **J Nucl Med** 1996 May; 37(5):815–8

Bone scans in neurofibromatosis: neurofibroma, plexiform neuroma and neurofibrosarcoma. Kloos RT, et al. **J Nucl Med** 1996 Nov;37(11):1778–83

Lung uptake on technetium-99m-MDP bone scan in Wegener's vasculitis. Kuyvenhoven JD, et al. **J Nucl Med** 1996 May;37(5):857–8

Localization of technetium-99m-sestamibi in diffuse myelodysplastic processes. Reiman RE, et al. **J Nucl Med** 1996 Mar;37(3):471–3

Bone scintigraphy in the canine cruciate deficiency model of osteoarthritis. Comparison of the unstable and contralateral knee. Brandt KD, et al. **J Rheumatol** 1997 Jan;24(1):140–5

Radiopharmacokinetic data for 99mTc-ABP--a new radiopharmaceutical for bone scanning: comparison with 99mTc-MDP. Arteaga de Murphy C, et al. **Nucl Med Biol** 1997 Jan;24(1):27–33

Multifocal skeletal tuberculosis: bone scan appearances. Dickinson FL, et al. **Nucl Med Commun** 1996 Nov; 17(11):957–62

99Tcm-DTPMP as a skeletal scintigraphy agent: distribution in rats in comparison with 99Tcm-MDP. Lázníček M, et al. **Nucl Med Commun** 1996 Dec;17(12):1016–20

Digital filtering of bone scans: an ROC study. Starck SA, et al. **Nucl Med Commun** 1997 Feb;18(2):98–104

Follow-up of osteomyelitis of infants with systemic serum parameters and bone scintigraphy. Aigner RM, et al. **Nuklearmedizin** 1996 Aug;35(4):116–21

Limb-sparing procedures: postoperative planar bone scan appearance. Kaste SC, et al. **Pediatr Radiol** 1996 Oct; 26(10):750–3

Occult trauma mimicking metastases on bone scans in pediatric oncology patients. Lowry PA, et al. **Pediatr Radiol** 1997 Feb;27(2):114–8

Five phase bone scintigraphy supports the pathophysiological concept of a subclinical inflammatory process in reflex sympathetic dystrophy. Leitha T, et al. **Q J Nucl Med** 1996 Jun;40(2):188–93

Influence of immediate post-therapy bone scintigraphy in the assessment of response to therapy in a case of nasopharyngeal carcinoma. Kostakoglu L, et al. **Radiat Med** 1996 Sep-Oct;14(5):279–81

But for one key factor.... Query T. **Radiol Technol** 1996 Sep-Oct;68(1):100

Abnormal skull uptake on bone scan. Ackerman L, et al. **Semin Nucl Med** 1997 Apr;27(2):190–3 (46 ref.)

Bone scintigraphy in metabolic bone disease. Ryan PJ, et al. **Semin Nucl Med** 1997 Jul;27(3):291–305 (67 ref.)

Using prostate-specific antigen to eliminate the staging radionuclide bone scan. Lee CT, et al. **Urol Clin North Am** 1997 May;24(2):389–94

[Evaluating bone metabolism with [15O]H2O, [18F]fluoride and positron emission tomography (PET) in the pig] Piert M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:475–80 (Eng. Abstr.) **(Ger)**

[Follow up control of stage IV neuroblastoma: 123I-MIBG scintigraphy, bone scintigraphy and catecholamine metabolites (published erratum appears in Nuklearmedizin 1997 Jan;36(1):60)] Kohnert K, et al. **Nuklearmedizin** 1996 Dec;35(6):220–4 (Eng. Abstr.) **(Ger)**

[Validity of bone scintigraphy for radiotherapy treatment planning of the skeletal system] Schultze J, et al. **Nuklearmedizin** 1996 Apr;35(2):59–62 (Eng. Abstr.) **(Ger)**

[Imaging of strontium-89 uptake with bremsstrahlung using NaI scintiliation camera] Narita H, et al. **Kaku Igaku** 1996 Nov;33(11):1207–12 (Eng. Abstr.) **(Jpn)**

[Second phase 99mTc-HMDP accumulation using three phase bone scintigraphy in a case of primary breast cancer] Nishiyama Y, et al. **Kaku Igaku** 1996 Jul;33(7):767–70 (Eng. Abstr.) **(Jpn)**

[Analysis of contributing factors with high renal uptake of 99mTc-MDP after anti-cancer chemotherapy including cisplatin] Sato T, et al. **Kaku Igaku** 1996 Nov;33(11):1221–6 (Eng. Abstr.) **(Jpn)**

[A case of bilateral adrenal neuroblastomas detected by bone scintigraphy] Suga K, et al. **Kaku Igaku** 1996 Dec; 33(12):1337–42 (Eng. Abstr.) **(Jpn)**

SURGERY

Fat embolism in orthopedic surgery: role of bone marrow fatty acid. Djelouah I, et al. **Anesth Analg** 1997 Aug; 85(2):441–3

Sudden sensorineural hearing loss following nonotologic, noncardiopulmonary bypass surgery. Cox AJ 3rd, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):994–8 (21 ref.)

Absorbable polyglycolide devices in trauma and bone surgery. Ashammakhi N, et al. **Biomaterials** 1997 Jan; 18(1):3–9 (101 ref.)

Intracranial and extracranial reduction osteoplasty for craniodiaphyseal dysplasia. Sinow JD, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):284–90

Morphological changes of autoclaved autogenic bone implantation and autoclaved autogenic bone supplemented with allogenic demineralized bone matrix in rat parietal bone. Young TQ, et al. **Histol Histopathol** 1996 Apr; 11(2):361–9

Comparative trial of steroids and surgical intervention in the management of ulnar neuritis. Ebenezer M, et al. **Int J Lepr Other Mycobact Dis** 1996 Sep;64(3):282–6

Temperature rise during drilling through bone. Abouzgia MB, et al. **Int J Oral Maxillofac Implants** 1997 May-Jun; 12(3):342–53 (31 ref.)

The effect of speed, pressure, and time on bone temperature during the drilling of implant sites. Brisman DL. **Int J Oral Maxillofac Implants** 1996 Jan-Feb;11(1):35–7

Heat generation during implant site preparation: an in vitro study. Cordioli G, et al. **Int J Oral Maxillofac Implants** 1997 Mar-Apr;12(2):186–93

Does titanium surface treatment influence the bone-implant interface? SEM and histomorphometry in a 6-month sheep study. Huré G, et al. **Int J Oral Maxillofac Implants** 1996 Jul-Aug;11(4):506–11

A 1-year follow-up of implants of differing surface roughness placed in rabbit bone. Wennerberg A, et al. **Int J Oral Maxillofac Implants** 1997 Jul-Aug;12(4):486–94

The effect of irrigation on osteotomy depth and bur diameter. Yacker MJ, et al. **Int J Oral Maxillofac Implants** 1996 Sep-Oct;11(5):634–8

Effect of electrochemically deposited apatite coating on bonding of bone to the HA-G-Ti composite and titanium. Ban S, et al. **J Biomed Mater Res** 1997 Jul;36(1):9–15

Nondestructive measurements of implant-bone interface shear modulus and effects of implant geometry in pull-out tests. Berzins A, et al. **J Biomed Mater Res** 1997 Mar 5; 34(3):337–40

Mechanical and histologic evaluation of Ca-P plasma-spray and magnetron sputter-coated implants in trabecular bone of the goat. Hulshoff JE, et al. **J Biomed Mater Res** 1997 Jul;36(1):75–83

Tendon-healing in goats [letter] Flatow EL. **J Bone Joint Surg Am** 1996 Nov;78(11):1785–6

Electronic publishing—the next steps [editorial] Fulford P. **J Bone Joint Surg Br** 1997 May;79(3):349

Comparison of bone transport and bone graft methods in the experimental treatment of bone defects. Huang SC. **J Formos Med Assoc** 1997 Jan;96(1):23–9

Novel animal model for studying the molecular mechanisms of bacterial adhesion to bone-implanted metallic devices: role of fibronectin in Staphylococcus aureus adhesion. Fischer B, et al. **J Orthop Res** 1996 Nov;14(6):914–20

Correlation of bony ingrowth to the distribution of stress and strain parameters surrounding a porous-coated implant. Qin YX, et al. **J Orthop Res** 1996 Nov;14(6):862–70

Application of a suture anchor technique for flap fixation to bone. Yamamoto Y, et al. **J Reconstr Microsurg** 1996 Jul;12(5):313–5

Mechanical property analysis of small bone fixators. Chou PH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jan;12(1):43–49

Bone. Ranchod M, et al. **Pathology (Phila)** 1996;3(2):535–44 (11 ref.)

[10 years of spinal anesthesia in infants and children for orthopedic surgery. Our clinical experience] Bang-Vojdanovski B. **Anaesthesist** 1996 Mar;45(3):271–7 (Eng. Abstr.) **(Ger)**

[Orthopedic pain management] Frischhut B, et al. **Anaesthesist** 1996 Dec;45 Suppl 3:S75–6 **(Ger)**

[Immediate orthopedic surgery in multiple trauma] Mosheiff R, et al. **Harefuah** 1997 Jun 1;132(11):810–3, 823 (Eng. Abstr.) **(Heb)**

[The treatment of obliterating arterial diseases of the extremities by a revascularizing osteotrepanation method] Zusmanovich FN. **Khirurgiia (Mosk)** 1996;(6):34–6 (Eng. Abstr.) **(Rus)**

[Hydroxyapatite as a substrate for osteoplasty: the theoretical and practical aspects of the problem] Bezrukov VM, et al. **Stomatologiia (Mosk)** 1996;75(5):7–12 (23 ref.) (Eng. Abstr.) **(Rus)**

TRANSPLANTATION see BONE TRANSPLANTATION

ULTRASONOGRAPHY

Reductions in bone strength after fluoride treatment are not reflected in tissue-level acoustic measurements [letter] Antich PP, et al. **Bone** 1997 Aug;21(2):207–8

The interpretation and utility of ultrasound measurements of bone [editorial] Heaney RP, et al. **Bone** 1996 Jun; 18(6):491–2 (8 ref.)

The characterization of broadband ultrasound attenuation and fractal analysis by biomechanical properties. Rho JY, et al. **Bone** 1997 May;20(5):497–504

Reductions in bone strength after fluoride treatment are not reflected in tissue-level acoustic measurements. Turner CH, et al. **Bone** 1996 Dec;19(6):603–7

High resolution real time ultrasonography in antenatal diagnosis of skeletal anomalies. Pagnotta G, et al. **Bull Hosp Jt Dis** 1996;54(4):226–9

Influence of high impact loading on ultrasound bone measurements in children: a cross-sectional report. Daly RM, et al. **Calcif Tissue Int** 1997 May;60(5):401–4

Ultrasound in the evaluation of bone fragility caused by osteoporosis: a comparison between different sites of measurement. Gnudi S, et al. **Chir Organi Mov** 1996 Sep-Dec;81(4):383–7 **(Eng, Ita)**

Definition consensus workshop for the ultrasonic assessment of bone 15th December 1995 (Paris). Langton CM, et al. **Clin Rheumatol** 1997 Jan;16(1):115–6 (0 ref.)

Bone density and quality measurement using ultrasound. Hans D, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):370–5 (47 ref.)

Ultrasonic parameters of bone in young normals: effect of age and sex. Minnisola S, et al. **Eur J Clin Invest** 1996 Nov;26(11):947–50

Quantitative ultrasound bone measurement. Hans D, et al. **Eur Radiol** 1997;7 Suppl 2:S43–50 (95 ref.)

Correlation of ultrasound bone velocity with dual-energy X-ray bone absorptiometry in rat bone specimens. Amo C, et al. **Invest Radiol** 1996 Feb;31(2):114–7

Ultrasonic wave propagation in bovine cancellous bone. Hosokawa A, et al. **J Acoust Soc Am** 1997 Jan; 101(1):558–62

Ultrasound velocity measurement in long bones: measurement method and simulation of ultrasound wave propagation. Lowet G, et al. **J Biomech** 1996 Oct; 29(10):1255–62

The nonlinear transition period of broadband ultrasound attenuation as bone density varies. Serpe L, et al. **J Biomech** 1996 Jul;29(7):963–6

Ultrasonic wave velocity measurement in small polymeric and cortical bone specimens. Kohles SS, et al. **J Biomech Eng** 1997 Aug;119(3):232–6

Factors influencing an ultrasound-estimated bone mass in postmenopausal women. Ino Y, et al. **J Obstet Gynaecol Res** 1997 Jun;23(3):295–300

Bone effects of transdermal hormone replacement therapy in postmenopausal women as evaluated by means of ultrasound: an open one-year prospective study. de Aloysio D, et al. **Maturitas** 1997 May;27(1):61–8

In vitro 3D reconstruction of long bones using B-scan image processing. Migeon B, et al. **Med Biol Eng Comput** 1997 Jul;35(4):369–72

Orthogonal relationships between ultrasonic velocity and material properties of bovine cancellous bone. Njeh CF, et al. **Med Eng Phys** 1996 Jul;18(5):373–81

The epidemiology of quantitative ultrasound: a review of the relationships with bone mass, osteoporosis and fracture risk. Gregg EW, et al. **Osteoporos Int** 1997;7(2):89–99 (84 ref.)

Ultrasound velocity and broadband attenuation over a wide range of bone mineral density. Han S, et al. **Osteoporos Int** 1996;6(4):291–6 (31 ref.)

The role of ultrasound in the assessment of osteoporosis: a review. Njeh CF, et al. **Osteoporos Int** 1997;7(1):7–22 (128 ref.)

Ultrasound velocity changes at the proximal phalanxes of the hand in pre-, peri- and postmenopausal women. Ventura V, et al. **Osteoporos Int** 1996;6(5):368–75

The non-linear relationship between BUA and porosity in cancellous bone. Hodgskinson R, et al. **Phys Med Biol** 1996 Nov;41(11):2411–20

A comparison of time-domain and frequency-domain approaches to ultrasonic velocity measurement in trabecular bone. Nicholson PH, et al. **Phys Med Biol** 1996 Nov;41(11):2421–35

ZSD: a universal parameter for precision in the ultrasonic assessment of osteoporosis. Langton CM. **Physiol Meas** 1997 Feb;18(1):67–72

Ultrasound bone densitometry and dual energy X-ray absorptiometry in patients with spinal cord injury: a cross-sectional study. Chow YW, et al. **Spinal Cord** 1996 Dec;34(12):736–41

Bone changes and carotid atherosclerosis in postmenopausal women. Uyama O, et al. **Stroke** 1997 Sep;28(9):1730–2

Measurement of velocity and attenuation of shear waves in bovine compact bone using ultrasonic spectroscopy. Wu J, et al. **Ultrasound Med Biol** 1997;23(1):129–34

Assessing skeletal development [comment] Ashhurst DE. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):373 (4 ref.). Comment on: Ultrasound Obstet Gynecol 1997 Jun;9(6):392–7.

Ultrasonographic and radiologic visualization of the developing embryonic skeleton [see comments] van Zalen-Sprock RM, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):392–7. Comment in: Ultrasound Obstet Gynecol

BONE AND BONES

1997 Jun;9(6):373.

[Cross sectional study of the relationship between bone density to diet and life style using ultrasound bone densitometry] Higashi A, et al.
Nippon Koshu Eisei Zasshi 1996 Oct;43(10):882–93 (Eng. Abstr.) **(Jpn)**

[Bone mineral density of the calcanei dissected from 30 cadavers—correlation of the values measured by the DXA, QCT and USD methods] Imamoto K, et al.
Nippon Ronen Igakkai Zasshi 1996 Aug;33(8):597–602 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Three-dimensional methods for quantification of cancellous bone architecture. Odgaard A. **Bone** 1997 Apr;20(4):315–28 (189 ref.)

Correlations among bone mineral density, broadband ultrasound attenuation, mechanical indentation testing, and bone orientation in bovine femoral neck samples. Duquette J, et al. **Calcif Tissue Int** 1997 Feb;60(2):181–6

Artifactual nonlinearity due to wear grooves and friction in four-point bending experiments of cortical bone. Griffin LV, et al. **J Biomech** 1997 Feb;30(2):185–8

Collagen fiber organization is related to mechanical properties and remodeling in equine bone. A comparison of two methods. Martin RB, et al. **J Biomech** 1996 Dec; 29(12):1515–21

Direct mechanics assessment of elastic symmetries and properties of trabecular bone architecture. Van Rietbergen B, et al. **J Biomech** 1996 Dec;29(12):1653–7

Ultrastructural features of the bone response to a plasma-sprayed hydroxyapatite coating in sheep. Hemmerlé J, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):418–25

Holes and grooves: the contribution of microscopy and taphonomy to the problem of art origins. D'Errico F, et al. **J Hum Evol** 1997 Jul;33(1):1–31

Cartilage and bone morphology in osteochondritis dissecans. Koch S, et al. **Knee Surg Sports Traumatol Arthrosc** 1997; 5(1):42–5

Scanning force microscopy of biological samples. Lekka M, et al. **Pol J Pathol** 1996;47(2):51–5 (17 ref.)

BONE BANKS

Bone graft contamination from a water de-ionizer during processing in a bone bank. Farrington M, et al.
J Hosp Infect 1996 Jan;32(1):61–4

Infection associated with the use of allograft bone from the north east Scotland Bone Bank. Sutherland AG, et al.
J Hosp Infect 1997 Mar;35(3):215–22

Ability of commercial demineralized freeze-dried bone allograft to induce new bone formation [see comments] Schwartz Z, et al. **J Periodontol** 1996 Sep;67(9):918–26. Comment in: J Periodontol 1996 Sep;67(9):946–8.

ECONOMICS

[Bone bank management using a thermal disinfection system (Lobator SD-1). A critical analysis] Hofmann C, et al.
Unfallchirurg 1996 Jul;99(7):498–508 (Eng. Abstr.) **(Ger)**

ORGANIZATION & ADMINISTRATION

[Organization of a bone and tissue bank. Consequences for organization of bone and tissue banks after HIV and hepatitis C infections] Schratt HE, et al. **Unfallchirurg** 1996 Nov;99(11):880–8 (Eng. Abstr.) **(Ger)**

[Bone bank—operational and professional aspects in the orthopedic community in Israel] Salai M, et al.
Harefuah 1997 Mar 16;132(6):410–1 (10 ref.) **(Heb)**

BONE CEMENTS

Effects of lamination on the strength of bone cement. Flivik G, et al. **Acta Orthop Scand** 1997 Feb;68(1):55–8

Palacos-angiography? Unusual radiographic findings after cemented hip prostheses. Gjengedal E, et al.
Acta Orthop Scand 1997 Feb;68(1):18–9

Bone-cement fixation for calcaneus fracture—a report on 2 elderly patients. Kiyoshige Y, et al. **Acta Orthop Scand** 1997 Aug;68(4):408–9

Reconstruction in metastatic destruction of the acetabulum. Support rings and arthroplasty in 12 patients. Stark A, et al. **Acta Orthop Scand** 1996 Oct;67(5):435–8

Hydroxyapatite cement to repair skull base defects: radiologic appearance. Weissman JL, et al.
AJNR Am J Neuroradiol 1996 Sep;17(8):1569–74

Comparative risk of early postoperative pulmonary embolism after cemented total knee versus total hip arthroplasty with low-dose warfarin prophylaxis. Vresilovic EJ, et al.
Am J Knee Surg 1996 Winter;9(1):2–6

Revision total hip replacement using the bias proximal porous-coated femoral component. Suominen S, et al.
Ann Chir Gynaecol 1996;85(4):347–51

Antibiotic-impregnated cement and beads for orthopedic infections. Wininger DA, et al.
Antimicrob Agents Chemother 1996 Dec;40(12):2675–9 (49 ref.)

Calcium phosphate bone cement—the Norian skeletal repair system in orthopedic surgery. Cohen MS, et al.
AORN J 1997 May;65(5):958–62

Does vacuum-mixing improve the fatigue properties of high-viscosity poly(methyl-methacrylate) (PMMA) bone cement? Comparison between two different evacuation methods. Fritsch E, et al. **Arch Orthop Trauma Surg** 1996; 115(3–4):131–5

Does the anchorage form and depth influence the pull-out strength of screws from bone cement? An experimental study. Heller KD, et al. **Arch Orthop Trauma Surg** 1997; 116(1–2):88–91

Use of adriamycin-impregnated methylmethacrylate in the treatment of tumor metastases in the long bones. Katagiri H, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):329–33

In vivo study of a calcium phosphate cement consisting of alpha-tricalcium phosphate/dicalcium phosphate dibasic/tetracalcium phosphate monoxide. Kurashina K, et al. **Biomaterials** 1997 Jan;18(2):147–51

In vivo study of calcium phosphate cements: implantation of an alpha-tricalcium phosphate/dicalcium phosphate dibasic/tetracalcium phosphate monoxide cement paste. Kurashina K, et al. **Biomaterials** 1997 Apr;18(7):539–43

In vitro degradation of a poly(propylene fumarate)-based composite material. Yaszemski MJ, et al. **Biomaterials** 1996 Nov;17(22):2127–30

Reinforcement of bone cement around the femoral prosthesis tip by pre-coated wire coil: a human cadaver bone study. Kim JK, et al. **Biomed Mater Eng** 1996;6(3):159–64

Hydroxyapatite impregnated bone cement: in vitro and in vivo studies. Kwon SY, et al. **Biomed Mater Eng** 1997; 7(2):129–40

Self-setting hydroxyapatite cement as a carrier for bone-forming cells. Yoshikawa T, et al.
Biomed Mater Eng 1996;6(5):345–51

Bonding of composite to bone: durability and effect of drying time. Baidya P, et al. **Br J Oral Maxillofac Surg** 1996 Oct; 34(5):406–8

Cement implantation syndrome: a time limited embolic phenomenon [editorial; comment] Byrick RJ.
Can J Anaesth 1997 Feb;44(2):107–11. Comment on: Can J Anaesth 1997 Feb;44(2):112–7. **(Eng, Fre)**

Clinical features and echocardiography of embolism during cemented hip arthroplasty [see comments] Lafont ND, et al. **Can J Anaesth** 1997 Feb;44(2):112–7. Comment in: Can J Anaesth 1997 Feb;44(2):107–11.

Sarcoma of bone-cement membrane: a case report and review of the literature. Bell RS, et al. **Can J Surg** 1997 Feb; 40(1):51–5 (32 ref.)

Long-term follow up of a growing skull fracture treated by dura and cranioplasty with artificial dura mater and methylmethacrylate. Hayashi Y, et al. **Childs Nerv Syst** 1997 Jun;13(6):349–51

Pulmonary embolism associated with use of bone cement during hip arthroplasty. Fabbri G, et al.
Chir Organi Mov 1996 Sep-Dec;81(4):347–9 **(Eng, Ita)**

Prosthetic replacement of the hip in dogs using bioactive bone cement. Matsuda Y, et al. **Clin Orthop** 1997 Mar; (336):263–77

Cementation of primary aneurysmal bone cysts. Ozaki T, et al. **Clin Orthop** 1997 Apr;(337):240–8

Influence of temperature and vacuum mixing on bone cement properties. Smeds S, et al. **Clin Orthop** 1997 Jan; (334):326–34

Cement debonding process of total hip arthroplasty stems. Verdonschot N, et al. **Clin Orthop** 1997 Mar;(336):297–307

Treatment of pathological fractures of the humeral shaft due to bone metastases: a comparison of intramedullary locking nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6

Unclear labeling on joint replacement kits. **Health Devices** 1997 Jul;26(7):290–1

Noncemented total hip arthroplasty in the young patient: considerations for optimizing long-term implant survival. Bobyn JD, et al. **Instr Course Lect** 1994;43:299–313 (165 ref.)

Cementless fixation in the young patient. Capello WN.
Instr Course Lect 1994;43:323–7 (7 ref.)

The case for cemented fixation of the femur in every patient. Harris WH. **Instr Course Lect** 1994;43:367–71 (41 ref.)

Cemented fixation of the femur. Jasty M.
Instr Course Lect 1994;43:373–9 (33 ref.)

Fixing the cup. Petrera P, et al. **Instr Course Lect** 1994; 43:393–407 (64 ref.)

Cementless fixation of the femur: pros and cons. Rorabeck CH, et al. **Instr Course Lect** 1994;43:329–37 (33 ref.)

Particulate debris in cemented total hip replacement. Salvati EA, et al. **Instr Course Lect** 1994;43:277–88 (53 ref.)

Bone cement penetration of the acetabulum in total hip replacement. An experimental study. Heller KD, et al.
Int Orthop 1996;20(5):315–20

Effect of a centralizing device on cement mantle deficiencies and initial prosthetic alignment in total hip arthroplasty. Berger RA, et al. **J Arthroplasty** 1997 Jun;12(4):434–43

Monitoring the integrity of the cement-metal interface of total joint components in vitro using acoustic emission and ultrasound. Davies JP, et al. **J Arthroplasty** 1996 Aug; 11(5):594–601

Factors affecting cement strains near the tip of a cemented femoral component. Estok DM 2nd, et al.
J Arthroplasty 1997 Jan;12(1):40–8

Acrylic bone-cement. Influence of mixer design and unmixed powder. Kurdy NM, et al. **J Arthroplasty** 1996 Oct; 11(7):813–9

Elution characteristics of vancomycin and tobramycin combined in acrylic bone-cement. Penner MJ, et al.
J Arthroplasty 1996 Dec;11(8):939–44

Tensile strength of the cement-bone interface depends on the amount of bone interdigitated with PMMA cement. Mann KA, et al. **J Biomech** 1997 Apr;30(4):339–46

An analysis of crack propagation paths at implant/bone-cement interfaces. McCormack BA, et al.
J Biomech Eng 1996 Nov;118(4):579–85

Osseointegration in cortical sheep bone of calcium phosphate implants evaluated by PIXE method and histology. Braye F, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):315–24

Static and fatigue properties of two new low-viscosity PMMA bone cements improved by vacuum mixing [letter; comment] Cooke FW. **J Biomed Mater Res** 1997 Apr; 35(1):135–6. Comment on: J Biomed Mater Res 1996 Aug;31(4):451–6.

Ex vivo degradation of a poly(propylene glycol-fumarate) biodegradable particulate composite bone cement. Frazier DD, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):383–9

A self-setting TTCP-DCPD apatite cement for release of vancomycin. Hamanishi C, et al. **J Biomed Mater Res** 1996 Fall;33(3):139–43

Macrophage activation and migration in interface tissue around loosening total hip arthroplasty components. Ishiguro N, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):399–406

mRNA expression of matrix metalloproteinases and tissue inhibitors of metalloproteinase in interface tissue around implants in loosening total hip arthroplasty. Ishiguro N, et al. **J Biomed Mater Res** 1996 Dec;32(4):611–7

In vitro properties of a chitosan-bonded bone-filling paste: studies on solubility of calcium phosphate compounds. Ito M, et al. **J Biomed Mater Res** 1996 Sep;32(1):95–8

Bonding strength of bonelike apatite layer to Ti metal substrate. Kim HM, et al. **J Biomed Mater Res** 1997 Summer;38(2):121–7

Properties of acrylic bone cement: state of the art review. Lewis G. **J Biomed Mater Res** 1997 Summer;38(2):155–82 (126 ref.)

Mechanism of the hardening process for a hydroxyapatite cement. Liu C, et al. **J Biomed Mater Res** 1997 Apr; 35(1):75–80

Effects of cement creep on stem subsidence and stresses in the cement mantle of a total hip replacement. Lu Z, et al. **J Biomed Mater Res** 1997 Feb;34(2):221–6

Enhanced strength in cemented stem fixation using adhesive acrylic cement as a metal coating material. Morita S, et al. **J Biomed Mater Res** 1997 Feb;34(2):171–5

Development of tricalcium phosphate/amylopectin paste combined with recombinant human transforming growth factor beta 1 as a bone defect filler. Ongpipattanakul B, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):295–305

Mechanical and biological properties of two types of bioactive bone cements containing MgO-CaO-SiO2-P2O5-CaF2 glass and glass-ceramic powder. Tamura J, et al. **J Biomed Mater Res** 1996 Jan; 30(1):85–94

Is there any difference between vacuum mixing systems in reducing bone cement porosity? Wang JS, et al.
J Biomed Mater Res 1996 Summer;33(2):115–9

Measurement of polyethylene wear in acetabular components inserted with and without cement. A randomized trial. Devane PA, et al. **J Bone Joint Surg Am** 1997 May; 79(5):682–9

The fate of well fixed cemented femoral components left in place at the time of revision of the acetabular component. Peters CL, et al. **J Bone Joint Surg Am** 1997 May; 79(5):701–6

Migration of cemented femoral components after THR. Roentgen stereophotogrammetric analysis. Kiss J, et al.
J Bone Joint Surg Br 1996 Sep;78(5):796–801

Radiological and clinical recurrence of giant-cell tumour of bone after the use of cement. Remedios D, et al.
J Bone Joint Surg Br 1997 Jan;79(1):26–30

Intercalary replacement of canine femora using a new bioactive bone cement. Senaha Y, et al.
J Bone Joint Surg Br 1996 Jan;78(1):26–31

Acrylic cement creeps but does not allow much subsidence of femoral stems. Verdonschot N, et al.
J Bone Joint Surg Br 1997 Jul;79(4):665–9

The effect of methotrexate-loaded bone cement on local destruction by the VX2 tumour. Wang HM, et al.
J Bone Joint Surg Br 1996 Jan;78(1):14–7

Particulate bioglass as a grafting material in the treatment of periodontal intrabony defects. Zamet JS, et al.
J Clin Periodontol 1997 Jun;24(6):410–8

Embedding of bone samples in methylmethacrylate: an improved method suitable for bone histomorphometry, histochemistry, and immunohistochemistry. Erben RG.
J Histochem Cytochem 1997 Feb;45(2):307–13

Effects of stem length on mechanics of the femoral hip component after cemented revision. Mann KA, et al.
J Orthop Res 1997 Jan;15(1):62–8

In vitro measurement of strain in the bone cement surrounding the femoral component of total hip replacements during simulated gait and stair-climbing. O'Connor DO, et al. **J Orthop Res** 1996 Sep;14(5):769–77

Augmentation of femoral neck fracture fixation with an injectable calcium-phosphate bone mineral cement. Stankewich CJ, et al. **J Orthop Res** 1996 Sep;14(5):786–93

Cement viscosity affects the bone-cement interface in total hip arthroplasty. Stone JJ, et al. **J Orthop Res** 1996 Sep; 14(5):834–7

Rib graft or cement to enhance screw fixation in anterior vertebral bodies. Hernigou P, et al. **J Spinal Disord** 1996 Aug;9(4):322–5

Biological levels of aluminium after use of aluminium-containing bone cement in post-otoneurosurgery. Guillard O, et al. **J Trace Elem Med Biol** 1997 Apr;11(1):53–6

Laser ablation of dyed acrylic bone cement. Lee CL, et al. **Lasers Surg Med** 1997;20(3):280–9

A method for shape optimization of a hip prosthesis to maximize the fatigue life of the cement. Hedia HS, et al. **Med Eng Phys** 1996 Dec;18(8):647–54

Asymptomatic cervical haemangioma treated by percutaneous vertebroplasty. Dousset V, et al. **Neuroradiology** 1996 May;38(4):392–4

Acrylic vertebroplasty in symptomatic cervical vertebral haemangiomas: report of 2 cases. Feydy A, et al. **Neuroradiology** 1996 May;38(4):389–91

Vertebral haemangiomas with spinal cord compression: the place of preoperative percutaneous vertebroplasty with methyl methacrylate. Ide C, et al. **Neuroradiology** 1996 Aug;38(6):585–9

Acrylic cranioplasty using miniplate struts [see comments] Replogle RE, et al. **Neurosurgery** 1996 Oct;39(4):747–9. Comment in: Neurosurgery 1997 Apr;40(4):885–6.

Acrylic cranioplasty using miniplate struts [letter; comment] Sherburn EW, et al. **Neurosurgery** 1997 Apr;40(4):885–6. Comment on: Neurosurgery 1996 Oct;39(4):747–9.

Cemented arthroplasty: 20 years onward. Ling RS. **Orthopedics** 1996 Sep;19(9):735

The influence of the stem-cement interface in total hip replacement—a comparison of experimental and finite element approaches. Wheeler JP, et al. **Proc Inst Mech Eng [H]** 1997;211(2):181–6

Comparison of formalin preserved bone allograft in the form of a paste and as bone chips in fresh femoral shaft fractures with comminution. Nagi ON, et al. **Singapore Med J** 1997 Feb;38(2):62–7

Restoration of pedicle screw fixation with an in situ setting calcium phosphate cement. Moore DC, et al. **Spine** 1997 Aug 1;22(15):1696–705

An innovative approach for cranioplasty using hydroxyapatite cement. Dujovny M, et al. **Surg Neurol** 1997 Sep;48(3):294–7

[Metastatic spine disease: surgical treatment by anterior corpectomy and Ziekel's VDS fixation] Chen LH, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):320–4 (Eng. Abstr.) **(Chi)**

[Should total hip prostheses be cemented?] Witvoet J. **Chirurgie** 1997;122(3):217–9 (Eng. Abstr.) **(Fre)**

[Percutaneous vertebral surgery. Technics and indications] Chiras J, et al. **J Neuroradiol** 1997 Jun;24(1):45–59 (Eng. Abstr.) **(Fre)**

[Value of percutaneous injection of acrylic cement using a pressure regulator] Gangi A, et al. **J Radiol** 1997 May; 78(5):393–4 (Eng. Abstr.) **(Fre)**

[Bone cements and their uses in orthopedics and rheumatology. GRIBOI. Groupe de Recherche interdisciplinaire sur les Biomatériaux ostéo-articulaires injectables (editorial)] Hardouin P. **Presse Med** 1996 Dec 7;25(38):1860–2 (Eng. Abstr.) **(Fre)**

[Can preoperative lung function diagnosis detect risk of intraoperative pulmonary gas exchange insufficiency in artificial hip replacement with polymethylmethacrylate cement?] Höltermann W, et al. **Anaesthesiol Reanim** 1996; 21(5):122–6 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Gentamicin-free bone cement does not alter proteinuria after hip arthroplasty [letter] Nergelius G, et al. **Acta Orthop Scand** 1997 Aug;68(4):410–1

Acute bronchospasm associated with polymethylmethacrylate cement. Wong HY, et al. **Anesthesiology** 1997 Sep;87(3):696–8

Haematuria and vesico-cutaneous fistula after hip surgery. Memon FR, et al. **Br J Urol** 1997 Jun;79(6):1005–6

Some studies of the complement system during total hip replacement using bone cement under general anaesthesia. Lewis RN. **Eur J Anaesthesiol** 1997 Jan;14(1):35–9

Respiratory complications of bone cement insertion during total hip replacement under spinal anaesthesia. Lewis RN. **Eur J Anaesthesiol** 1997 Jan;14(1):52–4

The generation of wear debris from cementless hip prostheses. Collier JP, et al. **Instr Course Lect** 1994; 43:257–62 (11 ref.)

The effects of cement-stem debonding in THA on the long-term failure probability of cement. Verdonschot N, et al. **J Biomech** 1997 Aug;30(8):795–802

Bone cement and deep-vein thrombosis [letter; comment] Planes A, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):166 . Comment on: J Bone Joint Surg Br 1995 Jul;77(4):668.

Radio-opaque agents in bone cement increase bone resorption. Sabokbar A, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):129–34

A prospective study of proximal femur bone mass following cemented and uncemented hip arthroplasty. Marchetti ME, et al. **J Bone Miner Res** 1996 Jul;11(7):1033–9

Intravesical methylmethacrylate after revision hip arthroplasty. McCallum TJ, et al. **J Urol** 1996 Nov; 156(5):1777

Pseudotumor formation in the bladder as a late complication of total hip replacement. Pang ST, et al. **J Urol** 1997 Jun; 157(6):2254

[Toxic aluminum encephalopathy. Predominant involvement of the limbic system on MRI] Lévêque C, et al. **J Neuroradiol** 1996 Dec;23(3):168–72 (Eng. Abstr.) **(Fre)**

[Cardiovascular collapse after cemented prosthesis: bone cement or a massive embolism? (letter)] Figueira A, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):339–40 **(Spa)**

[Transesophageal echocardiography during total arthroplasty of the hip (letter)] Hurtado-Martín J, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):223–4 **(Spa)**

CHEMICAL SYNTHESIS

Integrated system for preparation of bone cement and effects on cement quality and environment. Müller-Wille P, et al. **J Biomed Mater Res** 1997 Summer;38(2):135–42

[Mechanical properties of new low viscosity bone cements—can be improved by vacuum mixing] Kaltenkirchen N, et al. **Unfallchirurg** 1996 Jul;99(7):492–7 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Biodegradable bone cement compositions based on acrylate and epoxide terminated poly(propylene fumarate) oligomers and calcium salt compositions. Domb AJ, et al. **Biomaterials** 1996 Feb;17(4):411–7

In situ analysis of the degree of polymerization of bone cement by using FT-Raman spectroscopy. Rehman I, et al. **Biomaterials** 1996 Aug;17(16):1615–9

High-performance liquid chromatography assay of N,N-dimethyl-p-toluidine released from bone cements: evidence for toxicity. Stea S, et al. **Biomaterials** 1997 Feb; 18(3):243–6

Reinforcement of PMMA bone cement with a continuous wire coil—a 3D finite element study. Frigstad JR, et al. **Biomed Mater Eng** 1996;6(6):429–39

Improved bonding strength of polyethylene/polymethylmetacrylate bone cement—a preliminary study. Khang G, et al. **Biomed Mater Eng** 1996; 6(5):335–44

Fatigue properties and stem subsidence in wire coil reinforced PMMA bone cement: a preliminary in vitro study. Kim JK, et al. **Biomed Mater Eng** 1996;6(6):453–62

Subsidence of THA stems due to acrylic cement creep is extremely sensitive to interface friction. Verdonschot N, et al. **J Biomech** 1996 Dec;29(12):1569–75

Kinetic study of the setting reaction of a calcium phosphate bone cement. Fernández E, et al. **J Biomed Mater Res** 1996 Nov;32(3):367–74

Investigation into the release of bioactive recombinant human growth hormone from normal and low-viscosity poly(methylmethacrylate) bone cements. Goodwin CJ, et al. **J Biomed Mater Res** 1997 Jan;34(1):47–55

Self-setting, bioactive, and biodegradable TTCP-DCPD apatite cement. Hamanishi C, et al. **J Biomed Mater Res** 1996 Nov;32(3):383–9

Examination of hydroxyapatite filled 4-META/MMA-TBB adhesive bone cement in vitro and in vivo environment. Lee RR, et al. **J Biomed Mater Res** 1997 Spring;38(1):11–6

Effect of mixing method on selected properties of acrylic bone cement. Lewis G, et al. **J Biomed Mater Res** 1997 Fall;38(3):221–8

The bone-bonding polymer Polyactive 80/20 induces hydroxycarbonate apatite formation in vitro. Li P, et al. **J Biomed Mater Res** 1997 Jan;34(1):79–86

Fracture toughness of CoCr alloy-PMMA cement interface. Mann KA, et al. **J Biomed Mater Res** 1997 Fall;38(3):211–9

Application of tertiary amines with reduced toxicity to the curing process of acrylic bone cements. Vazquez B, et al. **J Biomed Mater Res** 1997 Jan;34(1):129–36

Mechanical properties of acrylic bone cement containing PMMA-SiO2 hybrid sol-gel material. Yang JM, et al. **J Biomed Mater Res** 1997 Summer;38(2):143–54

Calorimetric characterization of the formation of acrylic type bone cements. Yang JM, et al. **J Biomed Mater Res** 1996 Summer;33(2):83–8

Gentamicin-loaded hydraulic calcium phosphate bone cement as antibiotic delivery system. Bohner M, et al. **J Pharm Sci** 1997 May;86(5):565–72

Effect of sodium bicarbonate amount on in vitro indomethacin release from self-setting carbonated-apatite cement. Otsuka M, et al. **Pharm Res** 1997 Apr;14(4):444–9

CONTRAINDICATIONS

[Cement-free management of femoral neck fractures in elderly patients with poor cardiopulmonary prognosis] Knipprath J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:981–2 (Eng. Abstr.) **(Ger)**

ECONOMICS

Cost of implanting a cemented versus cementless femoral stem. Barrack RL, et al. **J Arthroplasty** 1996 Jun; 11(4):373–6

PHARMACOKINETICS

Experimental evaluation of a resorbable intramedullary plug for cemented total hip replacement. Giardino R, et al. **Biomaterials** 1997 Jul;18(13):907–13

PHARMACOLOGY

Resorption of, and bone formation from, new beta-tricalcium phosphate-monocalcium phosphate cements: an in vivo study. Ohura K, et al. **J Biomed Mater Res** 1996 Feb; 30(2):193–200

STANDARDS

Intramedullary, antibiotic-loaded cemented, massive allografts for skeletal reconstruction. 26 cases compared with 19 uncemented allografts. Ozaki T, et al. **Acta Orthop Scand** 1997 Aug;68(4):387–91

New aspects of the effect of size and size distribution on the setting parameters and mechanical properties of acrylic bone cements. Pascual B, et al. **Biomaterials** 1996 Mar; 17(5):509–16

The Nicolas Andry award: comparative results of cemented and cementless total hip arthroplasty. Rorabeck CH, et al. **Clin Orthop** 1996 Apr;(325):330–44

Modeling the tensile behavior of the cement-bone interface using nonlinear fracture mechanics. Mann KA, et al. **J Biomech Eng** 1997 May;119(2):175–8

Axisymmetric finite element analysis of a debonded total hip stem with an unsupported distal tip. Norman TL, et al. **J Biomech Eng** 1996 Aug;118(3):399–404

Static and fatigue properties of two new low-viscosity PMMA bone cements improved by vacuum mixing [see comments] Fritsch EW. **J Biomed Mater Res** 1996 Aug; 31(4):451–6. Comment in: J Biomed Mater Res 1997 Apr;35(1):135–6.

THERAPEUTIC USE

Impacted cancellous autograft for contained bone defects in total knee arthroplasty. Ries MD. **Am J Knee Surg** 1996 Spring;9(2):51–4

Bone replacement by ionomer cement in osteoplastic frontal sinus operations. Weber A, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S162–4

Thermal effects of acrylic cementation at bone tumour sites. Nelson DA, et al. **Int J Hyperthermia** 1997 May-Jun; 13(3):287–306

Factors affecting socket fixation after cemented revision. Raut VV, et al. **Int Orthop** 1997;21(2):83–6

A no-touch technique of loading bone cement for gun injection at total hip arthroplasty. Rice J, et al. **Ir J Med Sci** 1996 Jan-Mar;165(1):23

Femoral canal occlusion in total hip replacement using a resorbable and flexible cement restrictor. Bulstra SK, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):892–8

Long-term results of revision total hip arthroplasty with improved cementing technique. Katz RP, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):322–6

Cement-within-cement revision hip arthroplasty; should it be done? Li PL, et al. **J Bone Joint Surg Br** 1996 Sep; 78(5):809–11

Cement pressurisation during hip replacement. McCaskie AW, et al. **J Bone Joint Surg Br** 1997 May;79(3):379–84

Repair of five distal radius fractures with an investigational cancellous bone cement: a preliminary report. Jupiter JB, et al. **J Orthop Trauma** 1997 Feb-Mar;11(2):110–6

The reinforcement of cancellous bone screws with calcium phosphate cement. Mermelstein LE, et al. **J Orthop Trauma** 1996;10(1):15–20

Use of an antibiotic-impregnated bone cement block in the revision of an infected shoulder arthroplasty. Ramsey ML, et al. **J Shoulder Elbow Surg** 1996 Nov-Dec;5(6):479–82

Acrylic bone cement injection for the treatment of bone metastases [editorial; comment] Laredo JD, et al. **Rev Rhum Engl Ed** 1997 Mar;64(3):145–6. Comment on: Rev Rhum Engl Ed 1997 Mar;64(3):177–83.

[An experimental study of a cyanoacrylate biological adhesive in view of its use in the fixation of various fractures of the fingers] Caroli A, et al. **Ann Chir Main Memb Super** 1997;16(2):138–45 (Eng. Abstr.) **(Fre)**

[Vertebroplasty and percutaneous interventional radiology in bone metastases: techniques, indications, contra-indications] Deramond H, et al. **Bull Cancer Radiother** 1996;83(4):277–82 **(Fre)**

[Resorbable bone cements] Claes L, et al. **Orthopade** 1997 May;26(5):459–62 (25 ref.) (Eng. Abstr.) **(Ger)**

[The plain-film radiological changes in the cervical spine following a ventral fusion operation with bone cement] Hutzelmann A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):40–3 (Eng. Abstr.) **(Ger)**

[A new technique of segmental bone replacement in metastatic osteolysis in long bones] Kundel K. **Unfallchirurgie** 1997 Apr;23(2):69–73 (Eng. Abstr.) **(Ger)**

TOXICITY

Analysis of the leaching and toxicity of new amine activators for the curing of acrylic bone cements and composites. Liso PA, et al. **Biomaterials** 1997 Jan;18(1):15–20

Neurotoxicity testing of a new bioactive bone cement. Murai N, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):201–4

Exposure to methylmethacrylate in an orthopaedic operating theatre [letter] Williams S, et al. **Occup Med (Oxf)** 1996 Aug;46(4):322–3

BONE CONDUCTION

Reporting operative hearing results in stapes surgery: does choice of outcome measure make a difference? Berliner KI, et al. **Am J Otol** 1996 Jul;17(4):521–8

Paired comparisons between the Classic 300 bone-anchored and conventional bone-conduction hearing aids in terms of sound quality and speech intelligibility. Ringdahl A, et al. **Br J Audiol** 1995 Dec;29(6):299–307

The bone-anchored hearing aid: reference quantities and functional gain. Carlsson PU, et al. **Ear Hear** 1997 Feb; 18(1):34–41

Bone conduction implants: Xomed Audiant bone conductor vs. BAHA. Negri S, et al. **Ear Nose Throat J** 1997 Jun; 76(6):394–6

The effect of preoperative bone conduction threshold levels on the results of stapes surgery. Vartiainen E, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):459–61

Assessment of bone conduction prosthesis in situ. Laitakari K, et al. **Rev Laryngol Otol Rhinol (Bord)** 1995;116(4):305–7

[History of the tuning fork. I: Invention of the tuning fork, its course in music and natural sciences. Pictures from the history of otorhinolaryngology, presented by instruments from the collection of the Ingolstadt German Medical History Museum] Feldmann H. **Laryngorhinootologie** 1997 Feb;76(2):116–22 (Eng. Abstr.) **(Ger)**

[History of the tuning fork. II: Evolution of the classical experiments by Weber, Rinne and Schwabach] Feldmann H. **Laryngorhinootologie** 1997 May;76(5):318–26 (Eng. Abstr.) **(Ger)**

[Implantable bone conduction hearing aids] Matschke RG. **Wien Med Wochenschr** 1997;147(10):239–43 (17 ref.) (Eng. Abstr.) **(Ger)**

[Bone conduction hearing aids with fluid medium] Siegert R, et al. **Wien Med Wochenschr** 1997;147(10):244–8 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Fetal sheep in utero hear through bone conduction. Gerhardt KJ, et al. **Am J Otolaryngol** 1996 Nov–Dec;17(6):374–9

Frequency-specific brainstem responses to bone-conducted tone pulses masked by notched noise. Stürzebecher E, et al. **Audiology** 1996 Jan–Feb;35(1):45–54

Linearity of sound transmission through the human skull in vivo. Håkansson B, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2239–43

Problems in assessing the audiogram in patients with severe hearing impairment. Giles M, et al. **J Laryngol Otol** 1996 Aug;110(8):727–31

Tentative age-related norms for high frequency electric bone conduction audiometry. Voogt GR, et al. **S Afr J Commun Disord** 1995;42:49–52

BONE CYSTS

Intraosseous ganglion of the patella. Tam W, et al. **Skeletal Radiol** 1996 Aug;25(6):588–91 (25 ref.)

COMPLICATIONS

Pathologic fracture on bone cyst of the femoral neck treated by external fixator. Description of one case. Taroni A, et al. **Chir Organi Mov** 1997 Jan–Mar;82(1):91–4 **(Eng, Ita)**

Intraosseous gouty invasion of the talus. Raikin S, et al. **Foot Ankle Int** 1997 Jul;18(7):439–42 (18 ref.)

An unusual cause for lumbar radiculopathy: a synovial facet joint cyst of the right L5 joint. Bougie JD, et al. **J Manipulative Physiol Ther** 1996 Jan;19(1):48–51

A large ganglion cyst in a patient with hip dysplasia. DiMaio FR, et al. **Orthopedics** 1997 Jul;20(7):650–2

Large osteoarthritic bone cyst of the facet joint causing low back pain and sciatica. Shirado O, et al. **Orthopedics** 1997 May;20(5):472–5 (13 ref.)

Intraosseous ganglion cyst associated with neuropathy. Donahue F, et al. **Skeletal Radiol** 1996 Oct;25(7):675–8

Epiphyseal extension of a unicameral bone cyst. Haims AH, et al. **Skeletal Radiol** 1997 Jan;26(1):51–4

DIAGNOSIS

Plasmacytoma manifesting as recurrent cellulitis and hematic cyst of the orbit. Rappaport K, et al. **Am J Ophthalmol** 1996 Oct;122(4):595–7

Massive proximal femoral osteoarticular allograft. Bohm P, et al. **Arch Orthop Trauma Surg** 1996;115(2):100–3 (23 ref.)

Eccentric simple bone cysts of the femoral neck in adults. Ehara S, et al. **Clin Imaging** 1997 Jul–Aug;21(4):233–6

Diagnostic imaging of tibial periosteal ganglion. Valls R, et al. **Eur Radiol** 1997;7(1):70–2

Intraosseous ganglion communicating with soft tissue counterpart. Abe O, et al. **Radiat Med** 1997 Mar–Apr; 15(2):125–7

Intraosseous ganglion in a 6-year-old boy. May DA, et al. **Skeletal Radiol** 1997 Jan;26(1):67–9

DRUG THERAPY

Simple bone cysts treated by multiple drill-holes [letter; comment] Burgers AM, et al. **Acta Orthop Scand** 1997 Feb; 68(1):86. Comment on: Acta Orthop Scand 1996 Jun;67(3):288–90.

ETIOLOGY

Cortical bone cyst following a greenstick radial fracture. Wass AR, et al. **J Accid Emerg Med** 1996 Jan;13(1):63–4 (6 ref.)

Fractures through cystic lesions of the greater trochanter. A cause of late pain after cementless total hip arthroplasty. Heekin RD, et al. **J Arthroplasty** 1996 Sep;11(6):757–60

Zygomatic mucocele causing facial swelling. Noghreyan A, et al. **J Oral Maxillofac Surg** 1996 Dec;54(12):1469–71

Residual bone cysts after correction of severe foot deformities with the Ilizarov technique. Ganel A, et al. **J Pediatr Orthop** 1997 Jan–Feb;17(1):25–8

The dialysis patient with cystic bone defects and spinal cord symptoms. Mourad G, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1870–3

MICROBIOLOGY

Unicameral bone cyst. An unusual complication. Yoho RM, et al. **J Am Podiatr Med Assoc** 1996 May;86(5):236–8

Spinal echinococcal cyst: treatment using computerized tomography-guided needle aspiration and hypertonic saline irrigation. Case report. Spektor S, et al. **J Neurosurg** 1997 Sep;87(3):464–7

PATHOLOGY

Malignant change in an intradiploic epidermoid cyst. Hoeffel C, et al. **Acta Neurol Belg** 1997 Mar;97(1):45–9

Simple bone cyst of the axis. Park CK, et al. **Childs Nerv Syst** 1997 Mar;13(3):171–4 (6 ref.)

PHYSIOPATHOLOGY

Contribution to the vascular origin of the unicameral bone cyst. Gebhart M, et al. **Acta Orthop Belg** 1996 Sep; 62(3):137–43

Painful functional impairment of the knee joint caused by an ACL-based ganglion cyst. Höcker K, et al. **Injury** 1996 Sep;27(7):516–8

Myositis ossificans circumscripta with spontaneous healing of a cortical cyst. Berthelot JM, et al. **Rev Rhum Engl Ed** 1996 Mar;63(3):220–2

RADIOGRAPHY

Comparison of cystic rheumatoid arthritis and erosive rheumatoid arthritis. Lycklamaà Nijeholt G, et al. **J Rheumatol** 1996 Mar;23(3):447–52

[Cystic echinococcosis of the hip] Rehwagen K, et al. **Rontgenpraxis** 1997 Jun;50(6):128–9 **(Ger)**

SURGERY

Simple bone cysts treated by multiple drill-holes [letter; comment] Burgers AM, et al. **Acta Orthop Scand** 1997 Feb; 68(1):86. Comment on: Acta Orthop Scand 1996 Jun;67(3):288–90.

Massive proximal femoral osteoarticular allograft. Bohm P, et al. **Arch Orthop Trauma Surg** 1996;115(2):100–3 (23 ref.)

Local arthroscopic bone grafting of a juxta-articular glenoid bone cyst. Lee SB, et al. **Arthroscopy** 1997 Aug;13(4):502–6

Solitary unicameral bone cyst. Gakuu LN. **East Afr Med J** 1997 Jan;74(1):31–2

Simple bone cysts treated by percutaneous autologous marrow grafting [letter; comment] Göktürk E, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):695. Comment on: J Bone Joint Surg Br 1996 Nov;78(6):934–7.

Simple bone cysts treated by percutaneous autologous marrow grafting. A preliminary report [see comments] Lokiec F, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):934–7 . Comment in: J Bone Joint Surg Br 1997 May;79(3):509–10. Comment in: J Bone Joint Surg Br 1997 Jul;79(4):695.

Ganglion cyst of the odontoid process. Case report and review of the literature. Tabaddor K, et al. **Spine** 1996 Sep 1;21(17):2019–22 (26 ref.)

[The calcaneal cyst (editorial; comment)] Tscherne H, et al. **Langenbecks Arch Chir** 1996;381(6):299. Comment on: Langenbecks Arch Chir 1996 ;381(6):300–2. **(Ger)**

[Solitary calcaneal cyst (see comments)] Wallenböck E, et al. **Langenbecks Arch Chir** 1996;381(6):300–2 (Eng. Abstr.) . Comment in: Langenbecks Arch Chir 1996 ;381(6):299. **(Ger)**

[The use of human lyophilized bone matrix gelatin in oral surgery (preliminary report)] Eitler T, et al. **Fogorv Sz** 1997 Mar;90(3):67–74 (Eng. Abstr.) **(Hun)**

THERAPY

Simple bone cysts treated by percutaneous autologous marrow grafting [letter; comment] Lubicky JP. **J Bone Joint Surg Br** 1997 May;79(3):509–10. Comment on: J Bone Joint Surg Br 1996 Nov;78(6):934–7.

Spinal echinococcal cyst: treatment using computerized tomography-guided needle aspiration and hypertonic saline irrigation. Case report. Spektor S, et al. **J Neurosurg** 1997 Sep;87(3):464–7

VETERINARY

Subchondral bone cysts in the distal aspect of the tibia of three horses. Van Duin Y, et al. **Can Vet J** 1996 Jul; 37(7):429–31

Curettage of subchondral bone cysts in medial femoral condyles of the horse. White NA, et al. **Equine Vet J Suppl** 1988 Sep;(6):120–4

BONE CYSTS, ANEURYSMAL

Aneurysmal bone cyst of the navicular: a case report and review of the literature. Fraipont MJ, et al. **Foot Ankle Int** 1996 Nov;17(11):709–11 (30 ref.)

Extraosseous aneurysmal bone cyst. Riccioni L, et al. **Tumori** 1996 Sep–Oct;82(5):485–7 (17 ref.)

DIAGNOSIS

Two cases of hyperparathyroidism initially diagnosed as aneurysmal cyst. Ferrari D, et al. **Chir Organi Mov** 1996 Sep–Dec;81(4):407–11 **(Eng, Ita)**

Pediatric aneurysmal bone cyst of the distal tibia. Goss LR, et al. **J Am Podiatr Med Assoc** 1997 Mar;87(3):136–40

Magnetic resonance spin echo and fast field echo imaging of aneurysmal bone cyst: comparison with X-ray and computed tomography. Pierre-Jerome C, et al. **J Manipulative Physiol Ther** 1997 Feb;20(2):108–12

Solid variant of an aneurysmal bone cyst (giant cell reparative granuloma) of the 3rd lumbar vertebra. Sato K, et al. **Nagoya J Med Sci** 1996 Dec;59(3–4):159–65 (22 ref.)

Cranial aneurysmal bone cysts presenting with raised intracranial pressure: report of two cases. Chateil JF, et al. **Neuroradiology** 1997 Jul;39(7):490–4

Aneurysmal bone cyst involving the distal phalanx of a child. Katz MA, et al. **Orthopedics** 1997 May;20(5):463–6 (23 ref.)

Fibrous dysplasia with secondary aneurysmal bone cyst. Nguyen BD, et al. **Skeletal Radiol** 1996 Jan;25(1):88–91 (10 ref.)

Primary aneurysmal cyst of soft tissue. Report of a case with ultrastructural and MRI studies. López-Barea F, et al. **Virchows Arch** 1996 May;428(2):125–9

[Aneurysmal bone cyst: imaging diagnosis and evaluation of therapeutic methods] Guo Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):676–9 (Eng. Abstr.) **(Chi)**

[Aneurysmal bone cyst: diagnostic role of computerized tomography and magnetic resonance] Sandomenico F, et al. **Radiol Med (Torino)** 1996 Nov;92(5):525–9 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Aneurysmal cyst of soft tissue: report of a case with serial magnetic resonance imaging and biopsy. Shannon P, et al. **Hum Pathol** 1997 Feb;28(2):255–7 (11 ref.)

Aneurysmal bone cyst in a patient with osteogenesis imperfecta. Stig Jacobsen F. **J Pediatr Orthop B** 1997 Jul; 6(3):225–7

Solid variant of aneurysmal bone cyst in a patient with cyclic neutropenia. Levendoglu-Tugal O, et al. **Pediatr Hematol Oncol** 1996 Nov–Dec;13(6):549–54

GENETICS

Focal dermal hypoplasia (Goltz syndrome) with vertebral solid aneurysmal bone cyst variant. A case report. D'Alise MD, et al. **Pediatr Neurosurg** 1996;24(3):151–4

PATHOLOGY

Aneurysmal bone cyst of the clavicle in a child. Vedantam R, et al. **Br J Clin Pract** 1996 Dec;50(8):474–6

Aneurysmal bone cyst formation within a chondroblastoma: case report. Garces PB, et al. **Can Assoc Radiol J** 1997 Feb;48(1):25–7

Aneurysmal bone cysts in children. Ozaki T, et al. **J Cancer Res Clin Oncol** 1996;122(12):767–9

RADIOGRAPHY

Aneurysmal bone cyst of the patella. Castro MD, et al. **Am J Orthop** 1996 Oct;25(10):717–9 (13 ref.)

Aneurysmal bone cyst and giant cell tumor of the foot. Casadei R, et al. **Foot Ankle Int** 1996 Aug;17(8):487–95 (58 ref.)

Aneurysmal bone cyst of metacarpal. Apaydin A, et al. **Skeletal Radiol** 1996 Jan;25(1):76–8 (11 ref.)

Intracortical and subperiosteal aneurysmal bone cysts: a report of three cases. Schoedel K, et al. **Skeletal Radiol** 1996 Jul;25(5):455–9

RADIONUCLIDE IMAGING

Central versus eccentric lesions of long tubular bones. Greenspan A, et al. **Semin Nucl Med** 1996 Jul;26(3):201–6

SURGERY

Induced healing of aneurysmal bone cysts by demineralized bone particles. A report of two cases. Delloye C, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):141–5

Aneurysmal bone cyst of the terminal phalanx of the thumb in a child. Sakka SA, et al. **Arch Orthop Trauma Surg** 1997; 116(1–2):119–20

Cementation of primary aneurysmal bone cysts. Ozaki T, et al. **Clin Orthop** 1997 Apr;(337):240–8

Surgery for locally aggressive bone tumours. Devitt A, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):278–81

Aneurysmal bone cyst of the atlas: operative removal through an anterolateral approach. A case report. Bongioanni F, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1574–7

Aneurysmal bone cyst involving the distal phalanx of a child. Katz MA, et al. **Orthopedics** 1997 May;20(5):463–6 (23 ref.)

THERAPY

Arterial embolization of aneurysmal bone cysts in children. Cigala F, et al. **Bull Hosp Jt Dis** 1996;54(4):261–4

Aneurysmal bone cysts treated by curettage, cryotherapy and bone grafting. Schreuder HW, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):20–5 (37 ref.)

Aneurysmal bone cyst of cervical vertebra. Anand KS, et al. **J Indian Med Assoc** 1996 Jan;94(1):26,30

VETERINARY

Multiple aneurysmal bone cysts in a foal. Thomas HL, et al. **Can Vet J** 1997 Sep;38(9):570–3

Multifocal polyostotic aneurysmal bone cysts in a llama. Anderson DE, et al. **J Am Vet Med Assoc** 1997 Mar 15; 210(6):808–10

Aneurysmal bone cyst in a dog. Shimada A, et al. **J Vet Med Sci** 1996 Oct;58(10):1037–8

BONE DEMINERALIZATION, PATHOLOGIC

see related
OSTEOPOROSIS

COMPLICATIONS

Growth retardation and bone loss as determinants of axial osteopenia in juvenile chronic arthritis. Kotaniemi A. **Scand J Rheumatol** 1997;26(1):14–8

DIAGNOSIS

Clinical usefulness of markers of bone degradation and formation. Demers LM. **Scand J Clin Lab Invest Suppl** 1997;227:12–20 (28 ref.)

ETIOLOGY

Demonstrations of de-and remineralization mechanism as revealed in synthetic auditory ossicle (Apaceram) of rats by laser-Raman spectrometry. Ohsaki K, et al. **Cell Mol Biol (Noisy-le-grand)** 1995 Dec;41(8):1155–67

METABOLISM

Clinical usefulness of markers of bone degradation and formation. Demers LM. **Scand J Clin Lab Invest Suppl** 1997;227:12–20 (28 ref.)

PHYSIOPATHOLOGY

The effects of clodronate on increased bone turnover and bone loss due to ovariectomy in rats. Kippo K, et al. **Bone** 1995 Dec;17(6):533–42

Histomorphological confirmation of bone loss in the femoral–metaphyseal tissues of rats with skeletal unloading. Ehara Y, et al. **Res Exp Med (Berl)** 1996;196(3):163–70

PREVENTION & CONTROL

Is continuous intranasal salmon calcitonin effective in treating axial bone loss in patients with active rheumatoid arthritis receiving low dose glucocorticoid therapy? Kotaniemi A, et al. **J Rheumatol** 1996 Nov;23(11):1875–9

SURGERY

Rotationplasty for the treatment of severe bone loss and infection of the distal end of the femur. A case report. Krettek C, et al. **J Bone Joint Surg Am** 1997 May; 79(5):771–4

BONE DEMINERALIZATION TECHNIQUE

Ethylene oxide does not extinguish the osteoinductive capacity of demineralized bone. A reappraisal in rats. Zhang Q, et al. **Acta Orthop Scand** 1997 Apr;68(2):104–8

Visualization of crystal–matrix structure. In situ demineralization of mineralized turkey leg tendon and bone. Prostak KS, et al. **Calcif Tissue Int** 1996 Dec; 59(6):474–9

Kinetics of cortical bone demineralization: controlled demineralization—a new method for modifying cortical bone allografts. Lewandrowski KU, et al. **J Biomed Mater Res** 1996 Jul;31(3):365–72

Demineralized bone matrix mediates differentiation of bone marrow stromal cells in vitro: effect of age of cell donor. Becerra J, et al. **J Bone Miner Res** 1996 Nov;11(11):1703–14

[An experimental and clinical assessment of the properties of bone grafts demineralized with hydrobromic acid] Savel'ev VI, et al. **Vestn Khir Im I I Grek** 1996;155(5):40–1 **(Rus)**

BONE DENSITY

see related
ABSORPTIOMETRY, PHOTON

Texture analysis of direct magnification radiographs of vertebral specimens: correlation with bone mineral density and biomechanical properties. Link TM, et al. **Acad Radiol** 1997 Mar;4(3):167–76

Critical evaluation of bone densitometry. Ringertz HG. **Acad Radiol** 1997 Feb;4(2):150–3

Bone mineral density, muscle strength and physical activity. A population-based study of 332 subjects aged 15–42 years. Düppe H, et al. **Acta Orthop Scand** 1997 Apr;68(2):97–103

Bone mineral acquisition in low calcium intake children following the withdrawal of calcium supplement. Lee WT, et al. **Acta Paediatr** 1997 Jun;86(6):570–6

Comparison between broad-band ultrasound attenuation of the calcaneum and total body bone mineral density in children. Mughal MZ, et al. **Acta Paediatr** 1996 Jun; 85(6):663–5

Influence of osteophytic size on bone mineral density measured by dual X-ray absorptiometry. Rand T, et al. **Acta Radiol** 1997 Mar;38(2):210–3

In evaluating bone density for osteoporosis, are any of the available methods clearly superior? Genant HK, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1589–90

Should bone densitometry technologists be required to be certified radiology technologists? [letter] Griffin BN, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1197

Long-term effect of gluten restriction on bone mineral density of patients with coeliac disease. Bai JC, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):157–64

New method for assessing bone mineral mass [letter] Fukunaga M, et al. **Am J Clin Nutr** 1996 Oct;64(4):664

A multicenter study of the influence of fat and lean mass on bone mineral content: evidence for differences in their relative influence at major fracture sites. Early Postmenopausal Intervention Cohort (EPIC) Study Group. Hla MM, et al. **Am J Clin Nutr** 1996 Sep;64(3):354–60

Does poor zinc nutriture retard skeletal growth and mineralization in adolescents? [editorial; comment] King JC. **Am J Clin Nutr** 1996 Sep;64(3):375–6. Comment on: Am J Clin Nutr 1996 Sep;64(3):274–82.

Influence of body composition on bone mineral content in children and adolescents. Manzoni P, et al. **Am J Clin Nutr** 1996 Oct;64(4):603–7

Bone mineral and calcium accretion during puberty. Martin AD, et al. **Am J Clin Nutr** 1997 Sep;66(3):611–5

Altered bone metabolism in inflammatory bowel disease. Bischoff SC, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1157–63

Effects of dietary treatment on bone mineral density in adults with celiac disease: factors predicting response. Ciacci C, et al. **Am J Gastroenterol** 1997 Jun;92(6):992–6

Effect of treatment on bone mass, mineral metabolism, and body composition in untreated celiac disease patients. Mautalen C, et al. **Am J Gastroenterol** 1997 Feb;92(2):313–8

Bone mineral density in patients with pancreatic insufficiency and steatorrhea. Morán CE, et al. **Am J Gastroenterol** 1997 May;92(5):867–71

Bone mineralization and body composition in young patients with celiac disease. Scotta MS, et al. **Am J Gastroenterol** 1997 Aug;92(8):1331–4

Skeletal status of men with early and late ankylosing spondylitis. Lee YS, et al. **Am J Med** 1997 Sep; 103(3):233–41

Bone mass, vitamin D deficiency, and hyperparathyroidism in congestive heart failure. Shane E, et al. **Am J Med** 1997 Sep;103(3):197–207

Prediction of fracture risk. I: Bone density. Miller PD, et al. **Am J Med Sci** 1996 Dec;312(6):257–9 (14 ref.)

Bone mineral changes in young women with hypothalamic amenorrhea treated with oral contraceptives, medroxyprogesterone, or placebo over 12 months. Hergenroeder AC, et al. **Am J Obstet Gynecol** 1997 May; 176(5):1017–25

Serum insulin-like growth factor binding protein profiles in postmenopausal women: their correlation with bone mineral density. Kim JG, et al. **Am J Obstet Gynecol** 1996 May;174(5):1511–7

Technical note: CT determination of the mineral density of dry bone specimens using the dipotassium phosphate phantom. Chen X, et al. **Am J Phys Anthropol** 1997 Aug; 103(4):557–60

Do genetic factors explain associations between muscle strength, lean mass, and bone density? A twin study. Seeman E, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E320–7

Oophorectomy status and bone density in older, hysterectomized women. Kritz-Silverstein D, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):424–9

Carbonated beverage consumption and bone mineral density among older women: the Rancho Bernardo Study. Kim SH, et al. **Am J Public Health** 1997 Feb;87(2):276–9

Exercise and bones. Lessons learned from female athletes. Drinkwater BL. **Am J Sports Med** 1996;24(6 Suppl):S33–5 (20 ref.)

Effect of volume variations on osteogenic capabilities of autogenous cancellous bone graft in dogs. DeVries WJ, et al. **Am J Vet Res** 1996 Oct;57(10):1501–5

Geometric variables and bone mineral density as potential predictors for mechanical properties of the radius of Greyhounds. Muir P, et al. **Am J Vet Res** 1996 Jul; 57(7):1094–7

Bone mineral metabolism in diet-induced amenorrhea. Bruni V, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:250–62

Growth in infancy and bone mass in later life. Cooper C, et al. **Ann Rheum Dis** 1997 Jan;56(1):17–21

Relation between insulin-like growth factor-I concentrations, osteoarthritis, bone density, and fractures in the general population: the Chingford study. Lloyd ME, et al. **Ann Rheum Dis** 1996 Dec;55(12):870–4

Calcium regulation and bone mass loss after total gastrectomy in pigs. Maier GW, et al. **Ann Surg** 1997 Feb;225(2):181–92

Whole body bone mineral content in healthy children and adolescents. Mølgaard C, et al. **Arch Dis Child** 1997 Jan; 76(1):9–15

Assessment of bone status using the contact ultrasound bone analyser. Mughal MZ, et al. **Arch Dis Child** 1997 Jun; 76(6):535–6

Detection of mineral density on the surface of mouse parietal bones: backscattered electron imaging of low accelerating voltage scanning electron microscopy. Hashizume H, et al. **Arch Histol Cytol** 1997 Jun;60(2):195–204

Broadband ultrasound attenuation predicts fractures strongly and independently of densitometry in older women. A prospective study. Study of Osteoporotic Fractures Research Group [see comments] Bauer DC, et al. **Arch Intern Med** 1997 Mar 24;157(6):629–34. Comment in: ACP J Club 1997 Sep–Oct;127(2):42.

Phalangeal bone density and hip fracture risk. Mussolino ME, et al. **Arch Intern Med** 1997 Feb 24;157(4):433–8

Urinary N-telopeptide levels discriminate normal, osteopenic, and osteoporotic bone mineral density. Schneider DL, et al. **Arch Intern Med** 1997 Jun 9; 157(11):1241–5

Course of bone mineral content changes around cementless Zweymueller total hip arthroplasty. A 4-year follow-up study. Korovessis P, et al. **Arch Orthop Trauma Surg** 1997; 116(1-2):60–5

Measurement of bone density: comment on the American College of Rheumatology recommendations for the prevention and treatment of glucocorticoid-induced osteoporosis [letter; comment] Schwartz HA. **Arthritis Rheum** 1997 Aug;40(8):1551. Comment on: Arthritis Rheum 1996 Nov;39(11):1791–801.

A Monte Carlo model for bone mineral measurement using dual energy X-ray absorptiometry. Michael GJ, et al. **Australas Phys Eng Sci Med** 1997 Jun;20(2):84–91

Use of dual-energy X-ray absorptiometry for the measurements of small quantities of mineral. Lapillonne A, et al. **Biol Neonate** 1997;71(3):198–201

Bone mineral density and L-thyroxine treatment in rapidly cycling bipolar disorder. Gyulai L, et al. **Biol Psychiatry** 1997 Feb 15;41(4):503–6

Assessment of bone surrounding implants in goats: ex vivo measurements by dual X-ray absorptiometry. Corten FG, et al. **Biomaterials** 1997 Mar;18(6):495–501

Quoting intermediate analyses can only mislead [letter; comment] Bland JM. **BMJ** 1997 Jun 28;314(7098):1907–8 . Comment on: BMJ 1997 Feb 22;314(7080):569.

Bone density and risk of hip fracture in men and women: cross sectional analysis. De Laet CE, et al. **BMJ** 1997 Jul 26;315(7102):221–5

Controlled trial of weight bearing exercise in older women in relation to bone density and falls [see comments] McMurdo ME, et al. **BMJ** 1997 Feb 22;314(7080):569. Comment in: BMJ 1997 Jun 28;314(7098):1907–8.

Determining mineral content variations in bone using backscattered electron imaging. Bloebaum RD, et al. **Bone** 1997 May;20(5):485–90

Assessment of the strength of proximal femur in vitro: relationship to femoral bone mineral density and femoral geometry. Cheng XG, et al. **Bone** 1997 Mar;20(3):213–8

Assessment of the strength of the proximal femur in vitro: relationship with ultrasonic measurements of the calcaneus. Nicholson PH, et al. **Bone** 1997 Mar;20(3):219–24

Loss of bone mineral of the hip assessed by DEXA following tibial shaft fractures. Petersen MM, et al. **Bone** 1997 May; 20(5):491–5

The characterization of broadband ultrasound attenuation and fractal analysis by biomechanical properties. Rho JY, et al. **Bone** 1997 May;20(5):497–504

Reductions in bone strength after fluoride treatment are not reflected in tissue-level acoustic measurements. Turner CH, et al. **Bone** 1996 Dec;19(6):603–7

Biochemical, histomorphometric and densitometric changes in patients with multiple myeloma: effects of glucocorticoid therapy and disease activity. Diamond T, et al. **Br J Haematol** 1997 Jun;97(3):641–8

Comparison of two Hologic DXA systems (QDR 1000 and QDR 4500/A). Barthe N, et al. **Br J Radiol** 1997 Jul; 70(835):728–39

The combined use of ultrasound and densitometry in the prediction of vertebral fracture. Cepollaro C, et al. **Br J Radiol** 1997 Jul;70(835):691–6

Assessing the degree of osteoporosis in the axial skeleton using the dependence of the fractal dimension on the grey level threshold. Haidekker MA, et al. **Br J Radiol** 1997 Jun;70(834):586–93

Mandibular bone mineral density as a predictor of skeletal osteoporosis. Horner K, et al. **Br J Radiol** 1996 Nov; 69(827):1019–25

Male and female normative data for ultrasound measurement of the calcaneus within the UK adult population. Langton CM, et al. **Br J Radiol** 1997 Jun;70(834):580–5 (14 ref.)

Reference ranges of bone mineral density for women [letter; comment] Mazess RB. **Br J Radiol** 1997 Jan;70:109–10. Comment on: Br J Radiol 1996 Jul;69(823):655–60.

Radiation dose and in vitro precision in paediatric bone mineral density measurement using dual X-ray absorptiometry. Njeh CF, et al. **Br J Radiol** 1997 Jul; 70(835):719–27

Concordance and precision of dual X-ray absorptiometry with a 10 s scan. Patel R, et al. **Br J Radiol** 1996 Sep;

69(825):816–20
Clinical associations of dual-energy X-ray absorptiometry measurement of hand bone mass in rheumatoid arthritis. Devlin J, et al. **Br J Rheumatol** 1996 Dec;35(12):1256–62
Effects of vertical-banded gastroplasty on bone and mineral metabolism in obese patients. Cundy T, et al. **Br J Surg** 1996 Oct;83(10):1468–72
Periprosthetic bone density in uncemented femoral hip implants with proximal hydroxylapatite coating. Massari L, et al. **Bull Hosp Jt Dis** 1996;54(4):206–10
Serial bone mineral density studies in the evaluation and management of osteoporosis. Alexander SJ. **Bull Rheum Dis** 1997 Aug;46(5):3–7
Diagnostics: the correlation of bone mineral density and biochemical markers to fracture risk--where do we go from here? Clinical practice guidelines for the prevention and treatment of osteoporosis and osteopenia. Indianapolis, Indiana, September 7–8, 1995. The Osteoporosis Global Medical Conference. **Calcif Tissue Int** 1996;59 Suppl 1:S1–37 (0 ref.)
SEIOMM (Spanish Society for Bone and Mineral Research) Symposium. Alicante, Spain, October 4–7, 1995. Abstracts. **Calcif Tissue Int** 1996 Apr;58(4):283–305
The correlation of bone mineral density and biochemical markers to fracture risk. Adachi JD. **Calcif Tissue Int** 1996; 59 Suppl 1:16–9
Bone mass in female volleyball players: a comparison of total and regional bone mass in female volleyball players and nonactive females. Alfredson H, et al. **Calcif Tissue Int** 1997 Apr;60(4):338–42
Prevalence of trabecular microcallus formation in the vertebral body and the femoral neck. Cheng XG, et al. **Calcif Tissue Int** 1997 May;60(5):479–84
Bone density change and biochemical indices of skeletal turnover. Cosman F, et al. **Calcif Tissue Int** 1996 Apr; 58(4):236–43
Influence of high impact loading on ultrasound bone measurements in children: a cross-sectional report. Daly RM, et al. **Calcif Tissue Int** 1997 May;60(5):401–4
The relationship between childhood growth, bone mass, and muscle strength in male and female adolescents. Düppe H, et al. **Calcif Tissue Int** 1997 May;60(5):405–9
A single bone density measurement can predict fractures over 25 years. Duppe H, et al. **Calcif Tissue Int** 1997 Feb; 60(2):171–4
Bone densitometry in Canadian children 8–17 years of Age. Faulkner RA, et al. **Calcif Tissue Int** 1996 Nov;59(5):344–51
Clinical guidelines for the treatment of osteoporosis in Japan. Fujita T. **Calcif Tissue Int** 1996;59 Suppl 1:34–7 (15 ref.)
Diurnal variation of bone mineral turnover in elderly men and women. Greenspan SL, et al. **Calcif Tissue Int** 1997 May;60(5):419–23
Ultrasound velocity and broadband attenuation as predictors of load-bearing capacities of human calcanei. Han S, et al. **Calcif Tissue Int** 1997 Jan;60(1):21–5
Discrimination of spinal fracture with various bone mineral measurements. Ito M, et al. **Calcif Tissue Int** 1997 Jan; 60(1):11–5
Relationship of spinal fracture to bone density, textural, and anthropometric parameters. Ito M, et al. **Calcif Tissue Int** 1997 Mar;60(3):240–4
Influence of spondylopathy on bone densitometry using dual energy X-ray absorptiometry. Jaovisidha S, et al. **Calcif Tissue Int** 1997 May;60(5):424–9
Vitamin K status and bone mass in women with and without aortic atherosclerosis: a population-based study. Jie KG, et al. **Calcif Tissue Int** 1996 Nov;59(5):352–6
Bone mineral density in athletes during and after career: a comparison between loaded and unloaded skeletal regions. Karlsson MK, et al. **Calcif Tissue Int** 1996 Oct;59(4):245–8
Bone mineral density and turnover following forelimb immobilization and recovery in young adult dogs. Lane NE, et al. **Calcif Tissue Int** 1996 Nov;59(5):401–6
Significance of serum levels of type I procollagen peptide and intact osteocalcin and bone mineral density in patients with ossification of the posterior longitudinal ligaments. Matsui H, et al. **Calcif Tissue Int** 1996 Nov;59(5):397–400
Consensus of an international panel on the clinical utility of bone mass measurements in the detection of low bone mass in the adult population. Miller PD, et al. **Calcif Tissue Int** 1996 Apr;58(4):207–14 (80 ref.)
Correlation of bone density to strength and physical activity in young men with a low or moderate level of physical activity. Nordström P, et al. **Calcif Tissue Int** 1997 Apr; 60(4):332–7
Bone density and body composition in Japanese women. Ohmura A, et al. **Calcif Tissue Int** 1997 Aug;61(2):117–22
Ovariectomy-induced bone loss can be affected by different intensities of treadmill running exercise in rats. Peng ZQ, et al. **Calcif Tissue Int** 1997 May;60(5):441–8
The relation between trabecular bone strength and bone mineral density assessed by dual photon and dual energy X-ray absorptiometry in the proximal tibia. Petersen MM, et al. **Calcif Tissue Int** 1996 Oct;59(4):311–4
Magnification error of femoral geometry using fan beam densitometers. Pocock NA, et al. **Calcif Tissue Int** 1997 Jan;60(1):8–10
Impact of spinal degenerative changes on the evaluation of bone mineral density with dual energy X-ray absorptiometry (DXA). Rand T, et al. **Calcif Tissue Int** 1997 May;60(5):430–3
Prediction of bone loss rate in healthy postmenopausal women. Reginster JY, et al. **Calcif Tissue Int** 1997 Mar; 60(3):261–4
Influence of body mass index on the age-related slope of total and regional bone mineral content. Revilla M, et al. **Calcif Tissue Int** 1997 Aug;61(2):134–8
Ultrasound bone densitometry of os calcis in elderly Japanese women with hip fracture. Sakata S, et al. **Calcif Tissue Int** 1997 Jan;60(1):2–7
Immobilization distorts allometry of rat femur: implications for disuse osteoporosis. Sievänen H, et al. **Calcif Tissue Int** 1997 Apr;60(4):387–90
Symmetry of bone mineral density at the proximal femur with emphasis on the effect of side dominance. Yang R, et al. **Calcif Tissue Int** 1997 Sep;61(3):189–91
Prevention and management of osteoporosis: consensus statements from the Scientific Advisory Board of the Osteoporosis Society of Canada. 2. The use of bone density measurement in the diagnosis and management of osteoporosis. Sturtridge W, et al. **Can Med Assoc J** 1996 Oct 1;155(7):924–9 (24 ref.)
The association of dehydroepiandrosterone sulphate levels with bone mineral density in systemic lupus erythematosus. Formiga F, et al. **Clin Exp Rheumatol** 1997 Jul-Aug; 15(4):387–92
Silicone breast implants and renal contrast agent: iatrogenic sources of "increased" bone density. Karimeddini MK, et al. **Clin Nucl Med** 1996 Nov;21(11):889–90
Bone mineral changes during tibial fracture healing. Cattermole HC, et al. **Clin Orthop** 1997 Jun;(339):190–6
Periprosthetic bone density around fully hydroxyapatite coated femoral stem. Trevisan C, et al. **Clin Orthop** 1997 Jul;(340):109–17
The clinical role of BUA for the assessment of osteoporosis: a new hypothesis. Langton CM. **Clin Rheumatol** 1996 Jul; 15(4):414–5 (15 ref.)
Correlation of interleukin-6 serum levels with bone density in postmenopausal women. Papadopoulos NG, et al. **Clin Rheumatol** 1997 Mar;16(2):162–5
Ultrasound transmission velocity of the proximal phalanxes of the non-dominant hand in the study of osteoporosis. Sili Scavalli A, et al. **Clin Rheumatol** 1997 Jun; 16(4):396–403
Bone mineral density in ankylosing spondylitis. Sivri A, et al. **Clin Rheumatol** 1996 Jan;15(1):51–4
Bone density and quality measurement using ultrasound. Hans D, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):370–5 (47 ref.)
Decreased bone mineral density in patients with pustulosis palmaris et plantaris. Nymann P, et al. **Dermatology** 1996; 192(4):307–11
Bone density and other possible predictors of fracture risk in children and adolescents with spastic quadriplegia. Henderson RC. **Dev Med Child Neurol** 1997 Apr; 39(4):224–7
Does hyperinsulinemia preserve bone? [see comments] Barrett-Connor E, et al. **Diabetes Care** 1996 Dec; 19(12):1388–92. Comment in: Diabetes Care 1997 Aug;20(8):1339–40.
Bone mineral density in diabetes [letter; comment] Krakauer JC, et al. **Diabetes Care** 1997 Aug;20(8):1339–40. Comment on: Diabetes Care 1996 Dec;19(12):1388–92.
Calcium supplements increase bone mineral density in women with low serum calcium levels during long-term estrogen therapy. Mizunuma H, et al. **Endocr J** 1996 Aug;43(4):411–5
Bone mineral density in precocious puberty. Nakayama Y, et al. **Endocr J** 1996 Oct;43 Suppl:S145–6
Psychiatric symptoms, bone density and non-specific symptoms in patients with mild hypercalcemia due to primary hyperparathyroidism: a systematic overview of the literature. Okamoto T, et al. **Endocr J** 1997 Jun; 44(3):367–74 (43 ref.)
Effects of 2 years' treatment of osteoporosis with 1 alpha-hydroxy vitamin D3 on bone mineral density and incidence of fracture: a placebo-controlled, double-blind prospective study. Shikari M, et al. **Endocr J** 1996 Apr; 43(2):211–20
Elevated levels of growth hormone increase bone mineral content in normal young mice, but not in ovariectomized mice. Sandstedt J, et al. **Endocrinology** 1996 Aug; 137(8):3368–74
The effects of androgen deficiency on murine bone remodeling and bone mineral density are mediated via cells of the osteoblastic lineage. Weinstein RS, et al. **Endocrinology** 1997 Sep;138(9):4013–21
Non-invasive measurement of bone: a review of clinical and research applications in the horse. Jeffcott LB, et al. **Equine Vet J Suppl** 1988 Sep;(6):71–9 (56 ref.)
Ultrasonic transmission velocity and single photon absorptiometric measurement of metacarpal bone strength: an in vitro study in the horse. McCarhey RN, et al. **Equine Vet J Suppl** 1988 Sep;(6):80–7
Validation of a dual energy X-ray absorptiometer: measurement of bone mass and soft tissue composition. Madsen OR, et al. **Eur J Appl Physiol** 1997;75(6):554–8
Hip bone mineral density is improved by high-impact aerobic exercise in postmenopausal women and men over 50 years. Welsh L, et al. **Eur J Appl Physiol** 1996;74(6):511–7
Serum and urine markers of type I collagen metabolism in elderly women with high and low bone mineral density. Cheng S, et al. **Eur J Clin Invest** 1996 Mar;26(3):186–91
Bone mineral density of vertebrae, proximal femur and os calcis in normal Greek subjects as assessed by dual-energy X-ray absorptiometry: comparison with other populations. Hadjidakis D, et al. **Eur J Clin Invest** 1997 Mar; 27(3):219–27
Vitamin D receptor genotypes are related to bone size and bone density in men. Need AG, et al. **Eur J Clin Invest** 1996 Sep;26(9):793–6
Fracture rate, pre- and postmenopausal bone mass and early and late postmenopausal bone loss are not associated with vitamin D receptor genotype in a high-endemic area of osteoporosis. Berg JP, et al. **Eur J Endocrinol** 1996 Jul; 135(1):96–100
Effects of growth hormone (GH) replacement on bone metabolism and mineral density in adult onset of GH deficiency: results of a double-blind placebo-controlled study with open follow-up. Finkenstedt G, et al. **Eur J Endocrinol** 1997 Mar;136(3):282–9
Follow-up of bone mineral density in 27 cases of anorexia nervosa. Maugars YM, et al. **Eur J Endocrinol** 1996 Nov; 135(5):591–7
Effect of natural menopause on serum levels of IGF-I and IGF-binding proteins: relationship with bone mineral density and lipid metabolism in perimenopausal women. Nasu M, et al. **Eur J Endocrinol** 1997 Jun;136(6):608–16
Cigarette smoking, sex hormones and bone density in women. Law MR, et al. **Eur J Epidemiol** 1997 Jul;13(5):553–8
Bone mineral density and bone scintigraphy in children and adolescents with osteomalacia. El-Desouki M, et al. **Eur J Nucl Med** 1997 Feb;24(2):202–5
Decreased bone mineralization in children with phenylketonuria under treatment. Hillman L, et al. **Eur J Pediatr** 1996 Jul;155 Suppl 1:S148–52
Bone mineral density measurement by quantitative computed tomography in a normal Turkish population. Dinç H, et al. **Eur J Radiol** 1995 Dec 15;21(2):79–83
Seventeen year follow-up study of bone mass in patients with mild asymptomatic hyperparathyroidism some of whom were operated on. Elvius M, et al. **Eur J Surg** 1995 Dec; 161(12):863–9
Bone densitometry in the clinical practice. Passariello R, et al. **Eur Radiol** 1997;7 Suppl 2:S2–10 (79 ref.)
Total and regional bone mass in metastatic cancer of the prostate. Rico H, et al. **Eur Urol** 1996;30(1):73–6
Endocrine and physical determinants of bone mass in late postmenopause. Albanese CV, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):263–70
Lower serum 25-hydroxyvitamin D is associated with increased bone resorption markers and lower bone density at the proximal femur in normal females: a population-based study. Scharla SH, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):289–92
Effects of age, density, and geometry on the bending strength of human metatarsals. Courtney AC, et al. **Foot Ankle Int** 1997 Apr;18(4):216–21
Mechanisms of low bone mineral density in inflammatory bowel diseases [letter; comment] Abitbol V, et al. **Gastroenterology** 1997 Apr;112(4):1428. Comment on: Gastroenterology 1996 Nov;111(5):1263–71.
Propeptide of type I procollagen is predictive of posttreatment bone mass gain in adult celiac disease. Corazza GR, et al. **Gastroenterology** 1997 Jul;113(1):67–71
Deficiency of the growth hormone-insulin-like growth factor-I axis potentially involved in age-related alterations in body composition. Boonen S, et al. **Gerontology** 1996; 42(6):330–8
Influence of exercise and degenerative vertebral changes on BMD: a cross-sectional study in Japanese men. Sone T, et al. **Gerontology** 1996;42 Suppl 1:57–66
Reduced bone density in patients with inflammatory bowel disease. Bjarnason I, et al. **Gut** 1997 Feb;40(2):228–33
Bone mineral density is reduced in patients with Crohn's disease but not in patients with ulcerative colitis: a population based study. Jahnsen J, et al. **Gut** 1997 Mar; 40(3):313–9
Bone density changes in postmenopausal women with the administration of ipriflavone alone or in association with low-dose ERT. de Aloysio D, et al. **Gynecol Endocrinol** 1997 Aug;11(4):289–93
Bone mineral density and hormone levels in menopausal Australian women. Guthrie JR, et al. **Gynecol Endocrinol** 1996 Jun;10(3):199–205
Comparative effects on bone mineral density of tibolone, transdermal estrogen and oral estrogen/progestogen therapy in postmenopausal women. Prelevic GM, et al. **Gynecol Endocrinol** 1996 Dec;10(6):413–20
Vertebral bone mineral density in postpartum women. Anai T, et al. **Gynecol Obstet Invest** 1996;42(4):237–40
A new, standardized approach to fracture risk interpretation. Wasnich RD. **Hawaii Med J** 1996 Aug;55(8):141–3
Bone densitometry: patients receiving prolonged steroid therapy. Erlichman M, et al. **Health Technol Assess** 1996 Sep;(9):i–vi, 1–31 (198 ref.)
Ultrasound analyses of the calcaneus predict relative risk of the presence of at least one vertebral fracture and reflect different physical qualities of bone in different regions of the skeleton. Pfeifer M, et al. **Horm Metab Res** 1997 Feb; 29(2):76–9
Bone mineral density and biochemical parameters of bone turnover in children with growth hormone deficiency. Saggese G, et al. **Horm Res** 1996;45 Suppl 1:67–8 (10 ref.)
Fluoride in drinking water and the bone mineral density of women in Taiwan. Lan CF, et al. **Int J Epidemiol** 1995 Dec;24(6):1182–7
Bone mass density in post-menopausal women. Cosmi EV,

et al. **Int J Gynaecol Obstet** 1997 Sep;58(3):287–91

Serum vitamin K level and bone mineral density in post–menopausal women. Kanai T, et al. **Int J Gynaecol Obstet** 1997 Jan;56(1):25–30

Bone loss rate in the lumbar spine: a comparison between natural and surgically induced menopause. Yildiz A, et al. **Int J Gynaecol Obstet** 1996 Nov;55(2):153–9

Obesity as a protective factor for postmenopausal osteoporosis. Albala C, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1027–32

The Saskatchewan Pediatric Bone Mineral Accrual Study: bone mineral acquisition during the growing years. Bailey DA. **Int J Sports Med** 1997 Jul;18 Suppl 3:S191–4

Changes in bone mineral density around a stable uncemented total hip arthroplasty. Korovessis P, et al. **Int Orthop** 1997; 21(1):30–4

Determination of periprosthetic bone density with the DEXA method after implantation of custom–made uncemented femoral stems. Martini F, et al. **Int Orthop** 1996; 20(4):218–21

Quantitative assessment of callus distraction using dual energy X–ray absorptiometry. Reiter A, et al. **Int Orthop** 1997;21(1):35–40

Relationship between changes of bone mineral content and twelve–minute walking distance in men with chronic obstructive pulmonary disease: a longitudinal study. Nishimura Y, et al. **Intern Med** 1997 Jul;36(7):450–3

Correlation of ultrasound bone velocity with dual–energy X–ray bone absorptiometry in rat bone specimens. Amo C, et al. **Invest Radiol** 1996 Feb;31(2):114–7

The use of dual–energy x–ray absorptiometry in animals. Grier SJ, et al. **Invest Radiol** 1996 Jan;31(1):50–62 (79 ref.)

Coralline hydroxyapatite bone graft substitutes. Evaluation of bone density with dual energy x–ray absorptiometry. Preidler KW, et al. **Invest Radiol** 1996 Nov;31(11):716–23

Resistance exercise training restores bone mineral density in heart transplant recipients. Braith RW, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1471–7

Peak bone mass development of females: can young adult women improve their peak bone mass? Anderson JJ, et al. **J Am Coll Nutr** 1996 Dec;15(6):570–4 (18 ref.)

Intakes of nutrients and foods relevant to bone health in ethnically diverse youths. Wang MC, et al. **J Am Diet Assoc** 1997 Sep;97(9):1010–3

Relationship between baseline insulin–like growth factor–I (IGF–I) and femoral bone density in women aged over 70 years: potential implications for the prevention of age–related bone loss. Boonen S, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1301–6

Bone mineral density and aortic calcification: the Study of Osteoporotic Fractures. Vogt MT, et al. **J Am Geriatr Soc** 1997 Feb;45(2):140–5

Densitometric analysis of the human calcaneus. Fernandez Camacho FJ, et al. **J Anat** 1996 Aug;189 (Pt 1):205–9

Vertebral bone density after hip rearthroplasty assessed by quantitative computed tomography. Adolphson P. **J Arthroplasty** 1996 Oct;11(7):869–72

Effect of a stemless femoral implant for total hip arthroplasty on the bone mineral density of the proximal femur. A prospective longitudinal study. Munting E, et al. **J Arthroplasty** 1997 Jun;12(4):373–9

Host–bone response to porous–coated cobalt–chrome and hydroxyapatite–coated titanium femoral components in hip arthroplasty. Dual–energy x–ray absorptiometry analysis of paired bilateral cases at 5 to 7 years. Scott DF, et al. **J Arthroplasty** 1996 Jun;11(4):429–37

Measurement of periprosthetic bone density in hip arthroplasty using dual–energy x–ray absorptiometry. Reproducibility of measurements. Smart RC, et al. **J Arthroplasty** 1996 Jun;11(4):445–52

Maintenance of proximal bone mass with an uncemented femoral stem analysis with dual–energy x–ray absorptiometry. Wixson RL, et al. **J Arthroplasty** 1997 Jun; 12(4):365–72

Predictive value of proximal femoral bone densitometry in determining local orthogonal material properties. Cody DD, et al. **J Biomech** 1996 Jun;29(6):753–61

Bone mineral lies mainly outside collagen fibrils: predictions of a composite model for osteonal bone. Pidaparti RM, et al. **J Biomech** 1996 Jul;29(7):909–16

The nonlinear transition period of broadband ultrasound attenuation as bone density varies. Serpe L, et al. **J Biomech** 1996 Jul;29(7):963–6

19th Annual meeting of the American Society for Bone and Mineral Research. Cincinnati, Ohio, September 10–14, 1997. Abstracts. **J Bone Miner Res** 1997 Aug;12 Suppl 1:S103–576

Bone quality factor analysis: a new noninvasive technique for the measurement of bone density and bone strength. Abbasi–Jahromi SH, et al. **J Bone Miner Res** 1996 May; 11(5):594–9

Apparent pre– and postmenopausal bone loss evaluated by DXA at different skeletal sites in women: the OFELY cohort. Arlot ME, et al. **J Bone Miner Res** 1997 Apr; 12(4):683–90

Whole body bone, fat, and lean mass in black and white men. Barondess DA, et al. **J Bone Miner Res** 1997 Jun; 12(6):967–71

Dual–energy X–ray absorptiometry derived structural geometry for stress fracture prediction in male U.S. Marine Corps recruits. Beck TJ, et al. **J Bone Miner Res** 1996 May;11(5):645–53

Calcaneal bone mineral density predicts fracture occurrence: a five–year follow–up study in elderly people. Cheng S, et al. **J Bone Miner Res** 1997 Jul;12(7):1075–82

Dual–energy X–ray absorptiometry for histologic bone sections. Denissen H, et al. **J Bone Miner Res** 1996 May; 11(5):638–44

Total body calcium and bone mineral content: comparison of dual–energy X–ray absorptiometry with neutron activation analysis. Ellis KJ, et al. **J Bone Miner Res** 1996 Jun;11(6):843–8

Noninvasive assessment of bone mineral and structure: state of the art. Genant HK, et al. **J Bone Miner Res** 1996 Jun; 11(6):707–30 (273 ref.)

Relationship between body composition and bone mass in women. Khosla S, et al. **J Bone Miner Res** 1996 Jun; 11(6):857–63

Dual X–ray absorptiometry quality control: comparison of visual examination and process–control charts. Lu Y, et al. **J Bone Miner Res** 1996 May;11(5):626–37

What's good for the heart is not good for the bones? [letter] Meema HE. **J Bone Miner Res** 1996 May;11(5):704

Evidence for preservation of cortical bone mineral density in patients on continuous ambulatory peritoneal dialysis. Mottet JJ, et al. **J Bone Miner Res** 1996 Jan;11(1):96–104

Regional bone mineral density interrelationships in normal and osteoporotic postmenopausal women. Nordin BE, et al. **J Bone Miner Res** 1996 Jun;11(6):849–56

From density to structure: growing up and growing old on the surfaces of bone. Seeman E. **J Bone Miner Res** 1997 Apr;12(4):509–21 (88 ref.)

Unilateral hip replacement causes bilateral changes in tibial bone mineral content in a canine model. Smith AM, et al. **J Bone Miner Res** 1996 May;11(5):693–6

Total body bone mineral density in young children: influence of head bone mineral density. Taylor A, et al. **J Bone Miner Res** 1997 Apr;12(4):652–5

Changes in bone mineral density and calcium metabolism in breastfeeding women: a one year follow–up study. Affinito P, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2314–8

Long–term effect of testosterone therapy on bone mineral density in hypogonadal men. Behre HM, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2386–90

Changes in bone mineral density, body composition, and lipid metabolism during growth hormone (GH) treatment in children with GH deficiency. Boot AM, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2423–8

Bone mineral density in children and adolescents: relation to puberty, calcium intake, and physical activity. Boot AM, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):57–62

Augmentation of bone mineral density in hirsute women. Dagogo–Jack S, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):2821–5

Racial differences in bone density between young adult black and white subjects persist after adjustment for anthropometric, lifestyle, and biochemical differences. Ettinger B, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):429–34

A longitudinal evaluation of bone mineral density in adult men with histories of delayed puberty [see comments] Finkelstein JS, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1152–5. Comment in: J Clin Endocrinol Metab 1996 Oct;81(10):3812–3.

Low bone mineral density and peripheral blood monocyte activation profile in calcium stone formers with idiopathic hypercalciuria [see comments] Ghazali A, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):32–8. Comment in: J Clin Endocrinol Metab 1997 Jan;82(1):29–31.

Longitudinal changes in bone mineral density and bone turnover in postmenopausal women with primary hyperparathyroidism. Guo CY, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3487–91

Nonassociation of estrogen receptor genotypes with bone mineral density and estrogen responsiveness to hormone replacement therapy in Korean postmenopausal women [see comments] Han KO, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):991–5. Comment in: J Clin Endocrinol Metab 1997 Apr;82(4):989–90.

Biochemical bone markers and bone mineral density during postmenopausal hormone replacement therapy with and without vitamin D3: a prospective, controlled, randomized study. Heikkinen AM, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2476–82

The predictive value of biochemical markers of bone turnover for bone mineral density in early postmenopausal women treated with hormone replacement or calcium supplementation. Rosen CJ, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1904–10

A longitudinal evaluation of bone mineral density in adult men with histories of delayed puberty [letter; comment] Schönau E. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3812–3. Comment on: J Clin Endocrinol Metab 1996 Mar;81(3):1152–5.

A longitudinal study of markers of bone turnover in Graves' disease and their value in predicting bone mineral density. Siddiqi A, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):753–9

Elderly patients with adult–onset growth hormone deficiency are not osteopenic. Toogood AA, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1462–6

Demonstration of a lack of racial difference in secretion of growth hormone despite a racial difference in bone mineral density in premenopausal women--a Clinical Research Center study. Wright NM, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1023–6

Bone density of class II furcation lesions treated by guided tissue regeneration. A follow–up study by digital analysis of superimposable radiographs. Dubrez B, et al. **J Clin Periodontol** 1996 Sep;23(9):882–8

Bone density changes after 1 year in periodontal lesions treated surgically with or without ePTFE membrane placement. Iversen B, et al. **J Clin Periodontol** 1996 Jun; 23(6):512–6

Discriminability of fracture and nonfracture cases based on the spatial distribution of spinal bone mineral. Sandor T, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):498–505

Bone mineral metabolism is normal in non–insulin–dependent diabetes mellitus. Sosa M, et al. **J Diabetes Complications** 1996 Jul–Aug;10(4):201–5

Bone mineral density testing by DEXA. Davidson ET, et al. **J Fla Med Assoc** 1996 Oct;83(8):567–8

Osteodystrophy in patients with chronic hepatitis and liver cirrhosis. Tsuneoka K, et al. **J Gastroenterol** 1996 Oct; 31(5):669–78

Metabolic bone disease of liver cirrhosis: is it parallel to the clinical severity of cirrhosis? Chen CC, et al. **J Gastroenterol Hepatol** 1996 May;11(5):417–21

Bone mineral density and biochemical markers of bone turnover in healthy elderly men and women. Krall EA, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar;52(2):M61–7

Bone density measurements and osteoporosis [editorial] Kanis JA. **J Intern Med** 1997 Mar;241(3):173–5

Dietary calcium intake and its relation to bone mineral density in patients with inflammatory bowel disease. Silvennoinen J, et al. **J Intern Med** 1996 Nov;240(5):285–92

Bone density measurement--a systematic review. A report from SBU, the Swedish Council on Technology Assessment in Health Care. **J Intern Med Suppl** 1997; 739:1–60 (148 ref.)

Serum osteocalcin and bone mineral density at various skeletal sites: a study performed with three different assays [see comments] Minisola S, et al. **J Lab Clin Med** 1997 Apr;129(4):422–9. Comment in: J Lab Clin Med 1997 Apr;129(4):396–7.

Prediction of low bone mineral density in postmenopausal women by artificial neural network model compared to logistic regression model. Ongphiphadhanakul B, et al. **J Med Assoc Thai** 1997 Aug;80(8):508–15

Correlation of bone mineral density among various measurement sites. Taechakraichana N, et al. **J Med Assoc Thai** 1997 May;80(5):293–6

Anthropometric, lifestyle and menstrual factors influencing size–adjusted bone mineral content in a multiethnic population of premenopausal women. Davis JW, et al. **J Nutr** 1996 Dec;126(12):2968–76

Effects of weight loss on bone mineral density in rats. Douchi T, et al. **J Obstet Gynaecol Res** 1996 Jun;22(3):293–8

Factors influencing an ultrasound–estimated bone mass in postmenopausal women. Ino Y, et al. **J Obstet Gynaecol Res** 1997 Jun;23(3):295–300

Subchondral plate thickness reflects tensile stress in the primate acetabulum. Dewire P, et al. **J Orthop Res** 1996 Sep;14(5):838–41

Dual–energy X–ray absorptiometry as a measure of healing in fractures treated by intramedullary nailing. Cattermole HC, et al. **J Orthop Trauma** 1996;10(8):563–8

The correlation of serum ferritin level to Ca–P metabolism and bone density study in thalassemic patients. Chao T, et al. **J Pediatr Endocrinol Metab** 1996 Nov–Dec; 9(6):609–11

Bone mass in children with congenital hypothyroidism treated with thyroxine since birth. Kooh SW, et al. **J Pediatr Endocrinol Metab** 1996 Jan–Feb;9(1):59–62

Bone density in survivors of childhood malignancies. Henderson RC, et al. **J Pediatr Hematol Oncol** 1996 Nov; 18(4):367–71

Dual X–ray absorptiometry for alveolar bone: precision of peri–implant mineral measurements ex vivo. Denissen H, et al. **J Periodontal Res** 1996 May;31(4):265–70

Bone mineral density measurement [letter; comment] Perry W. **J R Soc Med** 1996 Oct;89(10):599. Comment on: J R Soc Med 1996 Aug;89(8):457–61.

Nafarelin vs. leuprolide acetate depot for endometriosis. Changes in bone mineral density and vasomotor symptoms. Nafarelin Study Group. Agarwal SK, et al. **J Reprod Med** 1997 Jul;42(7):413–23

Dual energy X–ray absorptiometry in patients with lower limb reflex sympathetic dystrophy syndrome [see comments] Chapurlat RD, et al. **J Rheumatol** 1996 Sep; 23(9):1557–9. Comment in: J Rheumatol 1997 Apr;24(4):812–4.

Bone densitometry: comparison of dual energy x–ray absorptiometry to radiographic absorptiometry. Swezey RL, et al. **J Rheumatol** 1996 Oct;23(10):1734–8

Humeral bone density losses after shoulder surgery and immobilization. Marchetti ME, et al. **J Shoulder Elbow Surg** 1996 Nov–Dec;5(6):471–6

Characterization of the bone mineral density of children with spinal cord injury. Moynahan M, et al. **J Spinal Cord Med** 1996 Oct;19(4):249–54

Correlation of bone equivalent mineral density to pull–out resistance of triangulated pedicle screw construct. Hadjipavlou AG, et al. **J Spinal Disord** 1997 Feb;10(1):12–9

Flexion–distraction injury of the lumbar spine: influence of

load, loading rate, and vertebral mineral content. Neumann P, et al. **J Spinal Disord** 1996 Apr;9(2):89–102

Bone histomorphometric changes due to differences in calcium intake under metabolic acidosis in rats. Won JH, et al. **J Vet Med Sci** 1996 Jul;58(7):611–6

Changes in bone mineral density in male athletes [letter; comment] Barr SI, et al. **JAMA** 1997 Jan 1;277(1):22–3; discussion 24. Comment on: JAMA 1996 Jul 17;276(3):226–30.

Bone mineral density and risk of breast cancer in older women: the study of osteoporotic fractures. Study of Osteoporotic Fractures Research Group [see comments] Cauley JA, et al. **JAMA** 1996 Nov 6;276(17):1404–8. Comment in: JAMA 1996 Nov 6;276(17):1430–2. Comment in: JAMA 1997 May 21;277(19):1515; discussion 1516–7.

Boning up on estrogen: new options, new concerns [editorial; comment] [see comments] Insogna K, et al. **JAMA** 1996 Nov 6;276(17):1430–2. Comment on: JAMA 1996 Nov 6;276(17):1389–96. Comment on: JAMA 1996 Nov 6;276(17):1397–403. Comment on: JAMA 1996 Nov 6;276(17):1404–8. Comment in: JAMA 1997 May 21;1515; discussion 1515–7.

Bone density in amenorrheic athletes and in anorexia nervosa [letter; comment] Mehler PS. **JAMA** 1996 Nov 6; 276(17):1384–5. Comment on: JAMA 1996 Jul 17;276(3):238–40.

Changes in bone mineral density in male athletes [letter; comment] Schneider P, et al. **JAMA** 1997 Jan 1;277(1):23–4; discussion 24. Comment on: JAMA 1996 Jul 17;276(3):226–30.

The comparative effect on bone density, endometrium, and lipids of continuous hormones as replacement therapy (CHART study). A randomized controlled trial [see comments] Speroff L, et al. **JAMA** 1996 Nov 6; 276(17):1397–403. Comment in: JAMA 1996 Nov 6;276(17):1430–2. Comment in: JAMA 1997 May 21;277(19):1515; discussion 1515–7.

Decreased bone mineral density in premenopausal patients with systemic lupus erythematosus. Chen CJ, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Oct; 12(10):567–72

Comparison of bone mineral density between athletic and non-athletic Chinese male adolescents. Tsai SC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Oct; 12(10):573–80

Bone mineral density and hormonal status in men with systemic lupus erythematosus. Formiga F, et al. **Lupus** 1996 Dec;5(6):623–6

Quantitation of T2' anisotropic effects on magnetic resonance bone mineral density measurement. Yablonskiy DA, et al. **Magn Reson Med** 1997 Feb;37(2):214–21

The effect of body composition on bone density in pre- and postmenopausal women. Douchi T, et al. **Maturitas** 1997 May;27(1):55–60

HRT and exercise: effects on bone density, muscle strength and lipid metabolism. A placebo controlled 2-year prospective trial on two estrogen-progestin regimens in healthy postmenopausal women. Heikkinen J, et al. **Maturitas** 1997 Mar;26(2):139–49

Prophylaxis of osteoporosis with calcium, estrogens and/or eelcatonin: comparative longitudinal study of bone mass. Pérez-Jaraiz MD, et al. **Maturitas** 1996 Apr;23(3):327–32

Effect of bone density evaluation on hormone replacement therapy prescription. Rozenberg S, et al. **Maturitas** 1996 May;24(1–2):57–61

Quantitative CT in the measurement of bone quantity and bone quality for assessing osteoporosis. Dougherty G. **Med Eng Phys** 1996 Oct;18(7):557–68

Bone densitometry. **Med Lett Drugs Ther** 1996 Nov 22; 38(988):103–4

The skeletal calcium/phosphorus ratio: a new in vivo method of determination. Fountos G, et al. **Med Phys** 1997 Aug; 24(8):1303–10

Probability-based structural parameters from three-dimensional nuclear magnetic resonance images as predictors of trabecular bone strength. Hwang SN, et al. **Med Phys** 1997 Aug;24(8):1255–61

Bone mineral density in elite 7- to 9-yr-old female gymnasts and swimmers. Cassell C, et al. **Med Sci Sports Exerc** 1996 Oct;28(10):1243–6

Previous physical activity relates to bone mineral measures in young women. Teegarden D, et al. **Med Sci Sports Exerc** 1996 Jan;28(1):105–13

Bone density and cyclic ovarian function in trained runners and active controls. Winters KM, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):776–85

Changes in bone mineral content in obese dieting women. Andersen RE, et al. **Metabolism** 1997 Aug;46(8):857–61

Bone density and local growth factors in generalized osteoarthritis. Dequeker J, et al. **Microsc Res Tech** 1997 May 15;37(4):358–71 (100 ref.)

Bone mass and the risk of breast cancer [letter; comment] Atkins CD. **N Engl J Med** 1997 Jul 17;337(3):199; discussion 200. Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.

Bone mass and the risk of breast cancer [letter; comment] Ballesteros M, et al. **N Engl J Med** 1997 Jul 17;337(3):200 . Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.

Bone mineral density in women with depression. Michelson D, et al. **N Engl J Med** 1996 Oct 17;335(16):1176–81

Bone mass and the risk of breast cancer [letter; comment] Shealy CN. **N Engl J Med** 1997 Jul 17;337(3):200. Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.

Bone mass and the risk of breast cancer [letter; comment] Walker AR, et al. **N Engl J Med** 1997 Jul 17;337(3):199; discussion 200. Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.

Bone mass and the risk of breast cancer among postmenopausal women [see comments] Zhang Y, et al. **N Engl J Med** 1997 Feb 27;336(9):611–7. Comment in: N Engl J Med 1997 Jul 17;337(3):199; discussion 200. Comment in: N Engl J Med 1997 Jul 17;337(3):200.

Women with past history of bone fracture have low spinal bone density before menopause. Goulding A, et al. **N Z Med J** 1997 Jun 27;110(1046):232–3

Trabecular bone architecture in female renal allograft recipients--assessed by computed tomography. Grotz WH, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):564–9

Bone demineralization after renal transplantation: contribution of secondary hyperparathyroidism manifested by hypercalcaemia. Setterberg L, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1825–8

Muscular strength and bone mineral density in haemodialysis patients. Spindler A, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):128–32

Adynamic bone lesion in renal transplant recipients with normal renal function. Velasquez-Forero F, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:58–64

A clinical correlative study of bone densitometric changes in hemodialysis patients with hyperparathyroidism [letter] Adam B, et al. **Nephron** 1996;74(2):483–4

A quantitative CT system applied to the femoral shaft and lateral condyle for evaluating bone loss in patients with secondary hyperparathyroidism. Sakurai K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep; 56(11):697–702

Bone metabolism and daily physical activity in women undergoing hemodialysis. Ota S, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):441–6

Bone mineral density in patients with spinal cord injuries. Changlai SP, et al. **Nucl Med Commun** 1996 May; 17(5):385–8

Symmetry of bone mineral density in the hips is not affected by age. Yang RS, et al. **Nucl Med Commun** 1996 Aug; 17(8):711–6

High bone mass as a marker for breast cancer risk. O'Brien K, et al. **Nutr Rev** 1997 Jul;55(7):284–6 (9 ref.)

Measurement of bone mineral density in osteoporotic fractures of the spine using dual energy X-ray absorptiometry. Jahng JS, et al. **Orthopedics** 1996 Nov; 19(11):951–4

12th International Bone Density Workshop. Crieff, Scotland, United Kingdom, 18–22 May 1997. Abstracts. **Osteoporos Int** 1997;7(3):241–309

Calcaneal ultrasound attenuation in older African-American and Caucasian-American women. Cauley JA, et al. **Osteoporos Int** 1997;7(2):100–4

Rationale and clinical indications for bone density measurements. Cooper C. **Osteoporos Int** 1996;6 Suppl 2:6–8 (20 ref.)

Study of bone mineral density in lumbar spine and femoral neck in a Spanish population. Multicentre Research Project on Osteoporosis. Díaz Curiel M, et al. **Osteoporos Int** 1997; 7(1):59–64

Bone mineral density in female junior, senior and former football players. Düppe H, et al. **Osteoporos Int** 1996; 6(6):437–41

Assessment of bone density and bone loss. Eastell R. **Osteoporos Int** 1996;6 Suppl 2:3–5 (6 ref.)

Comparison of trabecular bone density at vertebral and radial sites using quantitative computed tomography. Fujii Y, et al. **Osteoporos Int** 1996;6(6):486–90

DXA longitudinal quality control: a comparison of inbuilt quality assurance, visual inspection, multi-rule Shewhart charts and Cusum analysis. Garland SW, et al. **Osteoporos Int** 1997;7(3):231–7

Effect of aging on trabecular and compact bone components of proximal and ultradistal radius. Gatti D, et al. **Osteoporos Int** 1996;6(5):355–60

Geometric characteristics of the proximal femur and hip fracture risk. Geusens P. **Osteoporos Int** 1996;6 Suppl 3:27–30 (15 ref.)

The epidemiology of quantitative ultrasound: a review of the relationships with bone mass, osteoporosis and fracture risk. Gregg EW, et al. **Osteoporos Int** 1997;7(2):89–99 (84 ref.)

Ultrasound velocity and broadband attenuation over a wide range of bone mineral density. Han S, et al. **Osteoporos Int** 1996;6(4):291–6 (31 ref.)

Volumetric bone mineral density using peripheral quantitative computed tomography in Japanese women. Hasegawa Y, et al. **Osteoporos Int** 1997;7(3):195–9

Prevalent vertebral deformities: relationship to bone mineral density and spinal osteophytosis in elderly men and women. Jones G, et al. **Osteoporos Int** 1996;6(3):233–9

Practical guide for the use of bone mineral measurements in the assessment of treatment of osteoporosis: a position paper of the European foundation for osteoporosis and bone disease. The Scientific Advisory Board and the Board of National Societies. Kanis JA, et al. **Osteoporos Int** 1996; 6(3):256–61

Osteopenia occurs in a minority of patients with acromegaly and is predominant in the spine. Kayath MJ, et al. **Osteoporos Int** 1997;7(3):226–30

Can biochemical markers predict bone loss at the hip and spine?: a 4-year prospective study of 141 early postmenopausal women. Keen RW, et al. **Osteoporos Int** 1996;6(5):399–406

The effect of smoking at different life stages on bone mineral density in elderly men and women. Kiel DP, et al. **Osteoporos Int** 1996;6(3):240–8

Correlations of dual-energy X-ray absorptiometry, quantitative computed tomography, and single photon absorptiometry with spinal and non-spinal fractures [see comments] Lafferty FW, et al. **Osteoporos Int** 1996; 6(5):407–15. Comment in: Osteoporos Int 1997;7(3):238–40.

The effects of a community exercise program on fracture risk factors in older women. Lord SR, et al. **Osteoporos Int** 1996;6(5):361–7

Population-based geographic variations in DXA bone density in Europe: the EVOS Study. European Vertebral Osteoporosis. Lunt M, et al. **Osteoporos Int** 1997; 7(3):175–89

Magnetic resonance imaging of trabecular bone structure in the distal radius: relationship with X-ray tomographic microscopy and biomechanics. Majumdar S, et al. **Osteoporos Int** 1996;6(5):376–85

Bone mineral density & T-scores [letter; comment] Mazess RB. **Osteoporos Int** 1997;7(3):238–40. Comment on: Osteoporos Int 1996;6(5):407–15.

Does weight-bearing exercise protect against the effects of exercise-induced oligomenorrhea on bone density? Pearce G, et al. **Osteoporos Int** 1996;6(6):448–52

Initiation of hormone replacement therapy after diagnosis of osteoporosis by bone densitometry. Phillipov G, et al. **Osteoporos Int** 1997;7(2):162–4

Variability of vertebral and femoral postmenopausal bone loss: a longitudinal study. Pouillès JM, et al. **Osteoporos Int** 1996;6(4):320–4

Comparison of bone densitometry of the phalanges, distal forearm and axial skeleton in early postmenopausal women participating in the EPIC Study. Ravn P, et al. **Osteoporos Int** 1996;6(4):308–13

Circulating monomer-like calcitonin in osteoporotic patients. Rong H, et al. **Osteoporos Int** 1996;6(5):394–8

The effects of standardization and reference values on patient classification for spine and femur dual-energy X-ray absorptiometry. Simmons A, et al. **Osteoporos Int** 1997; 7(3):200–6

Accuracy and precision study in vitro for peripheral quantitative computed tomography. Takada M, et al. **Osteoporos Int** 1996;6(3):207–12

The increase in spinal bone density that occurs in response to fluoride therapy for osteoporosis is not maintained after the therapy is discontinued. Talbot JR, et al. **Osteoporos Int** 1996;6(6):442–7

Ultrasound velocity changes at the proximal phalanxes of the hand in pre-, peri- and postmenopausal women. Ventura V, et al. **Osteoporos Int** 1996;6(5):368–75

Bone mineral density in prepubertal and in adolescent and young adult patients with the salt-wasting form of congenital adrenal hyperplasia. Gussinyé M, et al. **Pediatrics** 1997 Oct;100(4):671–4

Bone mineral density in geographically diverse adolescent populations. Sheth RD, et al. **Pediatrics** 1996 Nov; 98(5):948–51

A prospective longitudinal study of bone densitometry in patients starting peritoneal dialysis. Coronel F, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):80–2

The non-linear relationship between BUA and porosity in cancellous bone. Hodgskinson R, et al. **Phys Med Biol** 1996 Nov;41(11):2411–20

Low-frequency ultrasonic velocity measurements in human calcaneal trabecular bone. Strelitzki R, et al. **Physiol Meas** 1997 May;18(2):119–27

Energy intake and monounsaturated fat in relation to bone mineral density among women and men in Greece. Trichopoulou A, et al. **Prev Med** 1997 May-Jun; 26(3):395–400

Prediction of peripheral fracture risk by quantitative microdensitometry. Vecht-Hart CM, et al. **Prev Med** 1997 Jan-Feb;26(1):86–91

Biochemical bone markers, bone mineral content, and bone mineral density in rats with experimental nephrotic syndrome. Sierra RI, et al. **Ren Fail** 1997 May;19(3):409–24

Interpretation of bone densitometry. Genant HK. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):20S–25S (81 ref.)

Lateral spine dual-energy X-ray absorptiometry bone mineral measurement with fan-beam design: effect of osteophytic calcifications on lateral and anteroposterior spine BMD. Franck H, et al. **Rheumatol Int** 1995; 15(4):151–4

Bone mineral status in end-stage liver disease and the effect of liver transplantation. Abdelhadi M, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1210–5

Bone mineral content in patients with Crohn's disease. A longitudinal study in patients with bowel resections. Staun M, et al. **Scand J Gastroenterol** 1997 Mar;32(3):226–32

The relationship of sustained exercise training and bone mineral density in aging male runners. Goodpaster BH, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):216–21

Bone loss in rheumatoid arthritis. Influence of disease activity, duration of the disease, functional capacity, and corticosteroid treatment. Hansen M, et al. **Scand J Rheumatol** 1996;25(6):367–76

Clinical utility of bone mass measurements in adults: consensus of an international panel. The Society for Clinical Densitometry. Miller PD, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):361–72 (67 ref.)

Vertebral morphometry studies using dual–energy x–ray absorptiometry. Blake GM, et al. **Semin Nucl Med** 1997 Jul;27(3):276–90 (47 ref.)

Interpretation of bone densitometry studies. Blake GM, et al. **Semin Nucl Med** 1997 Jul;27(3):248–60 (28 ref.)

Technical principles of dual energy x–ray absorptiometry. Blake GM, et al. **Semin Nucl Med** 1997 Jul;27(3):210–28 (83 ref.)

Assessment of fracture risk by bone density measurements. Jergas M, et al. **Semin Nucl Med** 1997 Jul;27(3):261–75 (69 ref.)

Overview of role of BMD measurements in managing osteoporosis. Ryan PJ. **Semin Nucl Med** 1997 Jul; 27(3):197–209 (52 ref.)

Bone mineral density measurements using the Hologic QD2000 in 175 Singaporean women aged 20–80. Leong KH, et al. **Singapore Med J** 1997 Jan;38(1):25–6

Assessment of the bone mineral density in the lumbar vertebrae of newborns by quantitative computed tomography. Braillon PM, et al. **Skeletal Radiol** 1996 Nov; 25(8):711–5

Skeletal age as a determinant of bone mass in preadolescent females. Ilich JZ, et al. **Skeletal Radiol** 1996 Jul;25(5):431–9

Ultrasound bone densitometry and dual energy X–ray absorptiometry in patients with spinal cord injury: a cross–sectional study. Chow YW, et al. **Spinal Cord** 1996 Dec;34(12):736–41

Densitometric patterns of spinal cord injury associated bone loss. Szollar SM, et al. **Spinal Cord** 1997 Jun;35(6):374–82

Demineralization in tetraplegic and paraplegic man over time. Szollar SM, et al. **Spinal Cord** 1997 Apr;35(4):223–8

Pitfalls in the measurement of bone mineral density by dual energy x–ray absorptiometry. Antonacci MD, et al. **Spine** 1996 Jan 1;21(1):87–91

The effect of bone quality on pedicle screw loading in axial instability. A synthetic model. McLain RF, et al. **Spine** 1997 Jul 1;22(13):1454–60

The relative importance of vertebral bone density and disc degeneration in spinal flexibility and interbody implant performance. An in vitro study. Oxland TR, et al. **Spine** 1996 Nov 15;21(22):2558–69

Performance of ventral spondylodesis screws in cervical vertebrae of varying bone mineral density. Zink PM. **Spine** 1996 Jan 1;21(1):45–52

Maximising the cost effectiveness of BMD referral for DXA using ultrasound as a selective population pre–screen. Langton CM, et al. **Technol Health Care** 1997 Jul; 5(3):235–41

Bone mineral density after surgical treatment for Graves' disease. Arata N, et al. **Thyroid** 1997 Aug;7(4):547–54

Bone mass, bone turnover, calcium homeostasis, and body composition in surgically and radioiodine–treated former hyperthyroid patients. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):169–75

Bone mass, bone turnover, body composition, and calcium homeostasis in former hyperthyroid patients treated by combined medical therapy. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):161–8

Osteoporosis following heart transplantation. Negri AL, et al. **Transplant Proc** 1996 Dec;28(6):3321–4

Use of bone mineral measurements in the management of osteoporosis. Vogel JM. **West J Med** 1996 Nov; 165(5):304–5

Disordered eating behaviors and bone–mineral density in women who misuse alcohol. Clark K. **West J Nurs Res** 1997 Feb;19(1):32–45; discussion 45–55

Studies on bone markers and bone mineral density in patients with chronic renal failure. Ha SK, et al. **Yonsei Med J** 1996 Oct;37(5):350–6

[Measurement and analysis of bone mineral density of lumbar vertebrae and alveolar bone in patients with periodontitis] Shi F, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan;31(1):3–5 (Eng. Abstr.) **(Chi)**

[Bone density of human condyle] Wang S, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):218–9 **(Chi)**

[Correlation between kidney deficiency syndrome and bone density] Guo SH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Nov; 15(11):655–7 (Eng. Abstr.) **(Chi)**

[Spontaneous remission of corticosteroid osteopenia after successful surgical treatment of Cushing's syndrome. A cross–sectional study] Stěpán J, et al. **Cas Lek Cesk** 1997 Jul 30;136(15):464–7 (Eng. Abstr.) **(Cze)**

[The effect of hormone replacement therapy on bone mineral content and on fractures] Eiken PA. **Ugeskr Laeger** 1997 Jan 27;159(5):570–6 (40 ref.) (Eng. Abstr.) **(Dan)**

[Bone loss and oral health status in patients on home parenteral nutrition] von Wowern SN, et al. **Ugeskr Laeger** 1997 Aug 11;159(33):4982–5 (Eng. Abstr.) **(Dan)**

[Development of bone mineral density after cure of Cushing's syndrome] Catargi B, et al. **Ann Endocrinol (Paris)** 1996; 57(3):203–8 (Eng. Abstr.) **(Fre)**

[Metabolic osteopathies. Osteodensitometry methods] Wüster C. **Med Klin** 1996 Feb 15;91 Suppl 1:40–1 **(Ger)**

[Systematics of osteodensitometric methods and acronyms] Felsenberg D, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):398–402 (14 ref.) (Eng. Abstr.) **(Ger)**

[Comparison of radiological procedures in preoperative assessment of anchorage strength of spinal implants] Schwitalle M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):535–8 (Eng. Abstr.) **(Ger)**

[CT osteodensitometry in the area immediate to hip endoprostheses] Sokiranski R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):455–61 (Eng. Abstr.) **(Ger)**

[Bone density and laboratory parameters of bone metabolism in patients with terminal heart disease] Christ E, et al. **Schweiz Med Wochenschr** 1996 Sep 14;126(37):1553–9 (Eng. Abstr.) **(Ger)**

[Validity and reproducibility of osteodensitometric DEXA–measurements following total hip endoprosthesis] Martini F, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan–Feb; 135(1):35–9 (Eng. Abstr.) **(Ger)**

[Determination of diminished bone mineral density in ankylosing spondylitis] Lányi E, et al. **Orv Hetil** 1997 Sep 7;138(36):2227–9 (Eng. Abstr.) **(Hun)**

[Bone mineral content in osteogenesis imperfecta] Rajtár M, et al. **Orv Hetil** 1996 Jul 14;137(28):1519–23 (Eng. Abstr.) **(Hun)**

[Correlation between risk factors and bone mass in pre– and postmenopause. Epidemiologic study on osteoporosis (Part one)] Maini M, et al. **Minerva Med** 1996 Sep;87(9):385–99 (Eng. Abstr.) **(Ita)**

[Densitometry analysis with quantitative computerized tomography in 530 subjects from Southern Italy] Addesso AM, et al. **Radiol Med (Torino)** 1996 Oct;92(4):363–6 (Eng. Abstr.) **(Ita)**

[Femoral densitometry as potential preoperative indicator for cementation of hip prosthesis] Baruffaldi F, et al. **Radiol Med (Torino)** 1996 Sep;92(3):193–8 (Eng. Abstr.) **(Ita)**

[Statistics of bone mineral density determined with a double–energy X–ray equipment] De Giorgi S, et al. **Radiol Med (Torino)** 1996 Jul–Aug;92(1–2):16–21 (Eng. Abstr.) **(Ita)**

[Investigation of bone mineral distribution in Japanese using dual–energy X–ray absorptiometry] Wei C, et al. **Nippon Eiseigaku Zasshi** 1997 Jan;51(4):742–8 (Eng. Abstr.) **(Jpn)**

[A population survey on bone mineral density in a fishing village in Wakayama Prefecture (Part 2); The analysis of the risk factors affecting the bone mineral density] Yoshimura N, et al. **Nippon Eiseigaku Zasshi** 1996 Oct; 51(3):677–84 (Eng. Abstr.) **(Jpn)**

[Evaluation of the usefulness of whole body bone mineral measurement using dual energy x–ray absorptiometry for the diagnosis of osteoporosis in Japanese women] Yagi D. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan;56(1):37–41 (Eng. Abstr.) **(Jpn)**

[Long–term follow–up study of bone mineral density in a patient with adult idiopathic Fanconi syndrome] Uchida K, et al. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):178–82 (Eng. Abstr.) **(Jpn)**

[Cross sectional study of the relationship between bone density to diet and life style using ultrasound bone densitometry] Higashi A, et al. **Nippon Koshu Eisei Zasshi** 1996 Oct;43(10):882–93 (Eng. Abstr.) **(Jpn)**

[Analysis factors associated with bone density in young women] Ikeda J, et al. **Nippon Koshu Eisei Zasshi** 1996 Jul;43(7):570–7 **(Jpn)**

[Comparison of bone mineral levels in healthy Japanese perimenopausal women measured by dual energy X–ray absorptiometry and ultrasound methods] Suzuki T, et al. **Nippon Koshu Eisei Zasshi** 1996 Jan;43(1):16–27 (Eng. Abstr.) **(Jpn)**

[A population based study on factors related to bone mineral density in Wakayama Prefecture] Ueda A, et al. **Nippon Koshu Eisei Zasshi** 1996 Jan;43(1):50–61 (Eng. Abstr.) **(Jpn)**

[Effects of lactation and lifestyles including food intake on bone density of lactating women] Yoneyama K, et al. **Nippon Koshu Eisei Zasshi** 1996 Jun;43(6):457–68 (Eng. Abstr.) **(Jpn)**

[Noninvasive assessment of bone mineral mass] Takada M, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:291–4 (8 ref.) **(Jpn)**

[Bone mineral density of the calcanei dissected from 30 cadavers—correlation of the values measured by the DXA, QCT and USD methods] Imamoto K, et al. **Nippon Ronen Igakkai Zasshi** 1996 Aug;33(8):597–602 (Eng. Abstr.) **(Jpn)**

[Effect of measuring bone mineral density on calcium intake] Miyamura T, et al. **Nippon Ronen Igakkai Zasshi** 1996 Nov; 33(11):840–6 (Eng. Abstr.) **(Jpn)**

[Decreased bone mineral density in premenopausal women with amenorrhea] Kinoshita T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Sep;48(9):793–8 (Eng. Abstr.) **(Jpn)**

[Changes in bone mineral content and bone metabolism during pregnancy and puerperium] Manabe M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jun; 48(6):399–404 (Eng. Abstr.) **(Jpn)**

[Analysis of processes of elevating calcaneum bone stiffness in young women—from the view point of their life–style] Shiga N, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Nov;48(11):1085–92 (Eng. Abstr.) **(Jpn)**

[Measurement of bone density by ultrasound bone densitometer in normal pregnant women] Tamura K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Nov; 48(11):1079–84 (Eng. Abstr.) **(Jpn)**

[Bone lesion in multiple myeloma—bone mineral density measured by dual energy X–ray absorptiometry in multiple myeloma] Takata M, et al. **Rinsho Ketsueki** 1997 Apr; 38(4):289–91 **(Jpn)**

[An analysis of the relationship among functional fitness tests, life style and bone density of the elderly in O town, Fukuoka Prefecture] Matsuda S, et al. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):213–21 (Eng. Abstr.) **(Jpn)**

[The quality of bone] Nakamura T. **Sangyo Ika Daigaku Zasshi** 1997 Jun 1;19(2):157–64 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Should everybody be screened for bone density? What deserves editorial comments? (letter) (see comments)] Høiseth A. **Tidsskr Nor Laegeforen** 1996 Sep 20; 116(22):2710. Comment in: Tidsskr Nor Laegeforen 1996 Nov 20;116(28):3391. **(Nor)**

[Should we measure bone density in all women? (letter; comment)] Søgaard AJ, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3391. Comment on: Tidsskr Nor Laegeforen 1996 Sep 20;116(22):2710. **(Nor)**

[Reproducibility of densitometric examinations of the tibial shaft] Kaleta M, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):473–8 (Eng. Abstr.) **(Pol)**

[Bone mineral disorders in patients with multiple myeloma] Przedlacki J, et al. **Pol Tyg Lek** 1996 May;51(19–22):275–7 (Eng. Abstr.) **(Pol)**

[Evaluation of mineral density in the distal radius during the course of rheumatoid arthritis] Bucka J, et al. **Przegl Lek** 1997;54(4):272–5 (Eng. Abstr.) **(Pol)**

[Densitometric evaluation of the distal radial epiphysis in patients after Colles fracture] Czerwiński E, et al. **Przegl Lek** 1997;54(4):266–8 (Eng. Abstr.) **(Pol)**

[Study of bone density in systemic scleroderma] da Silva HC, et al. **Rev Assoc Med Bras** 1997 Jan–Mar;43(1):40–6 (Eng. Abstr.) **(Por)**

[The effect of lactation during the reproductive age on bone mass in postmenopause] Medić–Stojanoska M, et al. **Med Pregl** 1997 Jan–Feb;50(1–2):12–4 (Eng. Abstr.) **(Scr)**

[Advances in DPX densitometry] Vojtaššák J. **Bratisl Lek Listy** 1997 Feb;98(2):118–22 (Eng. Abstr.) **(Slo)**

[Proximal femoral fractures: risk factors, bone mineral density, body composition and biochemical changes in and age–matched patients and controls] Vega EM, et al. **Medicina (B Aires)** 1996;56(4):353–62 (Eng. Abstr.) **(Spa)**

[Bone densitometry] Lillo R. **Rev Med Chil** 1996 Aug;124(8 Suppl):47–53 (50 ref.) **(Spa)**

[Assessment of bone status in intermittent and continuous alcoholics, without evidence of liver damage] Pumarino H, et al. **Rev Med Chil** 1996 Apr;124(4):423–30 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Effects of thyroxine therapy on bone metabolism in postmenopausal women with hypothyroidism. Affinito P, et al. **Acta Obstet Gynecol Scand** 1996 Oct;75(9):843–8

Bone mineral density and metabolism in children with congenital hypothyroidism after prolonged L–thyroxine therapy. Leger J, et al. **Acta Paediatr** 1997 Jul;86(7):704–10

Alcohol consumption by young actively growing rats: a study of cortical bone histomorphometry and mechanical properties. Hogan HA, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):809–16

Alcohol consumption by young actively growing rats: a histomorphometric study of cancellous bone. Sampson HW, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):352–9

Alcohol consumption inhibits bone growth and development in young actively growing rats. Sampson HW, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1375–84

Alcohol, osteoporosis, and bone regulating hormones. Sampson HW. **Alcohol Clin Exp Res** 1997 May;21(3):400–3 (45 ref.)

A randomized, placebo–controlled trial of calcium supplementation for decreased bone density in corticosteroid–using patients with inflammatory bowel disease: a pilot study. Bernstein CN, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):777–86

Vitamin D, calcium, and bone status in children with developmental delay in relation to anticonvulsant use and ambulatory status. Baer MT, et al. **Am J Clin Nutr** 1997 Apr;65(4):1042–51

Dietary caffeine intake and bone status of postmenopausal women. Lloyd T, et al. **Am J Clin Nutr** 1997 Jun; 65(6):1826–30

Hormone replacement therapy in postmenopausal women: urinary N–telopeptide of type I collagen monitors therapeutic effect and predicts response of bone mineral density. Chesnut CH 3rd, et al. **Am J Med** 1997 Jan; 102(1):29–37

Osteoporosis: prevention, diagnosis, and management. Deal CL. **Am J Med** 1997 Jan 27;102(1A):35S–39S (23 ref.)

The prevention of early postmenopausal bone loss by cyclical etidronate therapy: a 2–year, double–blind, placebo–controlled study. Herd RJ, et al. **Am J Med** 1997

Aug;103(2):92–9
Optimal dietary calcium intake in primary hyperparathyroidism. Locker FG, et al. **Am J Med** 1997 Jun;102(6):543–50
Osteoporosis: trials and tribulations. Seeman E. **Am J Med** 1997 Aug 18;103(2A):74S–87S; discussion 87S–89S (67 ref.)
Effect of three years of oral alendronate treatment in postmenopausal women with osteoporosis. Tucci JR, et al. **Am J Med** 1996 Nov;101(5):488–501
Bisphosphonate therapy [see comments] Licata AA. **Am J Med Sci** 1997 Jan;313(1):17–22 (70 ref.). Comment in: Am J Med Sci 1997 Jan;313(1):1.
Long–term effect of intravenous calcitriol on the treatment of severe hyperparathyroidism, parathyroid gland mass and bone mineral density in haemodialysis patients. Huraib S, et al. **Am J Nephrol** 1997;17(2):118–23
Gains in bone mineral density with resolution of vitamin D intoxication [see comments] Adams JS, et al. **Ann Intern Med** 1997 Aug 1;127(3):203–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):231–3.
Effects of physiologic growth hormone therapy on bone density and body composition in patients with adult–onset growth hormone deficiency. A randomized, placebo–controlled trial [see comments] Baum HB, et al. **Ann Intern Med** 1996 Dec 1;125(11):883–90. Comment in: Ann Intern Med 1996 Dec 1;125(11):932–4.
Calcium and vitamin D3 supplementation prevents bone loss in the spine secondary to low–dose corticosteroids in patients with rheumatoid arthritis. A randomized, double–blind, placebo–controlled trial [see comments] Buckley LM, et al. **Ann Intern Med** 1996 Dec 15; 125(12):961–8. Comment in: Ann Intern Med 1997 Jul 1;127(1):90.
Three–year follow–up on the effects of transdermal estrogen [letter; comment] Parfitt AM. **Ann Intern Med** 1997 May 1;126(9):742. Comment on: Ann Intern Med 1996 Jul 1;125(1):77.
The effect of tamoxifen and hormone replacement therapy on serum cholesterol, bone mineral density and coagulation factors in healthy postmenopausal women participating in a randomised, controlled tamoxifen prevention study [see comments] Chang J, et al. **Ann Oncol** 1996 Sep;7(7):671–5 . Comment in: Ann Oncol 1996 Sep;7(7):655–6.
Inhalation of diesel engine exhaust increases bone mineral concentrations in growing rats. Watanabe N, et al. **Arch Environ Contam Toxicol** 1996 Mar;30(3):407–11
Exercise–associated amenorrhea, low bone density, and estrogen replacement therapy. Cumming DC. **Arch Intern Med** 1996 Oct 28;156(19):2193–5
Cyclical etidronate: its effect on bone density in patients with acute spinal cord injury. Pearson EG, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):269–72
Cytokines and T–lymphocyte subsets in healthy post–menopausal women: estrogen retards bone loss without affecting the release of IL–1 or IL–1ra. Abrahamsen B, et al. **Bone** 1997 Mar;20(3):251–8
Androgen supplementation in eugonadal men with osteoporosis–effects of 6 months of treatment on bone mineral density and cardiovascular risk factors. Anderson FH, et al. **Bone** 1996 Feb;18(2):171–7
Reductions in bone strength after fluoride treatment are not reflected in tissue–level acoustic measurements [letter] Antich PP, et al. **Bone** 1997 Aug;21(2):207–8
Salmon calcitonin in the prevention of bone loss at perimenopause. Arnala I, et al. **Bone** 1996 Jun;18(6):629–32
Effects of two doses of tibolone on trabecular and cortical bone loss in early postmenopausal women: a two–year randomized, placebo–controlled study. Berning B, et al. **Bone** 1996 Oct;19(4):395–9
The response in spinal bone mass to tibolone treatment is related to bone turnover in elderly women. Bjarnason NH, et al. **Bone** 1997 Feb;20(2):151–5
Effects of strontium ions on growth and dissolution of hydroxyapatite and on bone mineral detection. Christoffersen J, et al. **Bone** 1997 Jan;20(1):47–54
Effects of dihydrotestosterone alone and combined with estrogen on bone mineral density, bone growth, and formation rates in ovariectomized rats. Coxam V, et al. **Bone** 1996 Aug;19(2):107–14
Oral alendronate induces progressive increases in bone mass of the spine, hip, and total body over 3 years in postmenopausal women with osteoporosis. Devogelaer JP, et al. **Bone** 1996 Feb;18(2):141–50
Effect of 10 years' hormone replacement therapy on bone mineral content in postmenopausal women. Eiken P, et al. **Bone** 1996 Nov;19(5 Suppl):191S–193S
Parathyroid hormone (1–34) increases vertebral bone mass, compressive strength, and quality in old rats [see comments] Ejersted C, et al. **Bone** 1995 Dec;17(6):507–11 . Comment in: Bone 1996 Jul;19(1):73–4.
European and North American Experience with HRT for the prevention of osteoporosis. Eriksen EF, et al. **Bone** 1996 Nov;19(5 Suppl):179S–183S (46 ref.)
Cyclical intravenous clodronate in postmenopausal osteoporosis: results of a long–term clinical trial. Filipponi P, et al. **Bone** 1996 Feb;18(2):179–84
Plasma levels of parathyroid hormone that induce anabolic effects in bone of ovariectomized rats can be achieved by stimulation of endogenous hormone secretion. Fox J, et al. **Bone** 1997 Aug;21(2):163–9
Dose–response effect of short–term calcitriol treatment on bone and mineral metabolism in normal males. Gram J, et al. **Bone** 1996 Jun;18(6):539–44
Truncation of the amino terminus of PTH alters its anabolic activity on bone in vivo. Hilliker S, et al. **Bone** 1996 Nov; 19(5):469–77
The androgenic anabolic steroid nandrolone decanoate prevents osteopenia and inhibits bone turnover in ovariectomized cynomolgus monkeys. Jerome CP, et al. **Bone** 1997 Apr;20(4):355–64
Skeletal responsiveness to thyroid hormone is not altered at menopause. Langdahl BL, et al. **Bone** 1996 Nov; 19(5):557–64
Current bone mineral density data on bisphosphonates in postmenopausal osteoporosis. McClung MR. **Bone** 1996 Nov;19(5 Suppl):195S–198S (35 ref.)
Qualitative alterations of cortical bone in female rats after long–term administration of growth hormone and glucocorticoid. Ortoft G, et al. **Bone** 1996 Jun;18(6):581–90
Fluoride pharmacokinetics and changes in lumbar spine and hip bone mineral density. Patel S, et al. **Bone** 1996 Dec; 19(6):651–5
The effect on bone mass and bone markers of different doses of ibandronate: a new bisphosphonate for prevention and treatment of postmenopausal osteoporosis: a 1–year, randomized, double–blind, placebo–controlled dose–finding study. Ravn P, et al. **Bone** 1996 Nov; 19(5):527–33
Bone mass homeostasis and bisphosphonate action. Rodan GA. **Bone** 1997 Jan;20(1):1–4 (42 ref.)
Mineralization of cancellous bone after alendronate and sodium fluoride treatment: a quantitative backscattered electron imaging study on minipig ribs. Roschger P, et al. **Bone** 1997 May;20(5):393–7
Bone effects of dydrogesterone in ovariectomized rats: a biologic, histomorphometric, and densitometric study. Roux C, et al. **Bone** 1996 Nov;19(5):463–8
Methotrexate maintains bone mass by preventing both a decrease in bone formation and an increase in bone resorption in adjuvant–induced arthritic rats. Segawa Y, et al. **Bone** 1997 May;20(5):457–64
Estradiol treatment transiently increases trabecular bone volume in ovariectomized rats. Sims NA, et al. **Bone** 1996 Nov;19(5):455–61
A comparison of the effects of two anabolic agents (fluoride and PTH) on ash density and bone strength assessed in an osteopenic rat model. Søgaard CH, et al. **Bone** 1997 May;20(5):439–49
PTHrP(1–36) as a skeletal anabolic agent for the treatment of osteoporosis. Stewart AF. **Bone** 1996 Oct;19(4):303–6 (41 ref.)
Does growth hormone treatment prevent corticosteroid–induced osteoporosis? Tanaka H, et al. **Bone** 1996 Jun;18(6):493–4 (28 ref.)
Effect of nasal salmon calcitonin on bone remodeling and bone mass in postmenopausal osteoporosis. Thamsborg G, et al. **Bone** 1996 Feb;18(2):207–12
High fluoride intakes cause osteomalacia and diminished bone strength in rats with renal deficiency. Turner CH, et al. **Bone** 1996 Dec;19(6):595–601
Effects of parathyroid hormone treatment in rats [letter; comment] Turner CH. **Bone** 1996 Jul;19(1):73–4. Comment on: Bone 1995 Dec;17(6):507–11.
The effects of long–term hormone replacement therapy on bone remodeling in postmenopausal women. Vedi S, et al. **Bone** 1996 Nov;19(5):535–9
Minocycline prevents the decrease in bone mineral density and trabecular bone in ovariectomized aged rats. Williams S, et al. **Bone** 1996 Dec;19(6):637–44
Alteration of mineral crystallinity and collagen cross–linking of bones in osteopetrotic toothless (tl/tl) rats and their improvement after treatment with colony stimulating factor–1. Wojtowicz A, et al. **Bone** 1997 Feb;20(2):127–32
Clodronate improves bone mineral density in post–menopausal breast cancer patients treated with adjuvant antioestrogens. Saarto T, et al. **Br J Cancer** 1997; 75(4):602–5
Bone mineral density in patients with atopic dermatitis. Aalto–Korte K, et al. **Br J Dermatol** 1997 Feb;136(2):172–5
Longitudinal assessment of bone density with hormone replacement therapy. Drakeley AJ, et al. **Br J Hosp Med** 1997 Mar 5–18;57(5):210–1
A double–blind randomised controlled trial of the effects of medroxyprogesterone acetate on bone density of women taking oestrogen replacement therapy [see comments] Adachi JD, et al. **Br J Obstet Gynaecol** 1997 Jan; 104(1):64–70. Comment in: Br J Obstet Gynaecol 1997 Aug;104(8):973–4.
Effects on bone mass after eight years of hormonal replacement therapy. Eiken P, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):702–7
A double–blind randomised controlled trial of the effects of medroxyprogesterone acetate on bone density of women taking oestrogen replacement therapy [letter; comment] Mackey R. **Br J Obstet Gynaecol** 1997 Aug;104(8):973–4 . Comment on: Br J Obstet Gynaecol 1997 Jan;104(1):64–70.
The effect of long–term oestradiol implantation on bone mineral density in postmenopausal women who have undergone hysterectomy and bilateral oophorectomy. Wahab M, et al. **Br J Obstet Gynaecol** 1997 Jun; 104(6):728–31
The effect of pamidronate on lumbar spine bone density and pain in osteoporosis secondary to systemic mastocytosis. Marshall A, et al. **Br J Rheumatol** 1997 Mar;36(3):393–6
Effects of disease and corticosteroids on appendicular bone mass in postmenopausal women with rheumatoid arthritis: comparison with axial measurements. Martin JC, et al. **Br J Rheumatol** 1997 Jan;36(1):43–9
Bone density and tissue lead accretion in growing rats fed low high calcium with or without supplemental clinoptilolite. Pond WG, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):713–21
Effects of indomethacin administration on bone turnover and bone mass in adjuvant–induced arthritis in rats. Aota S, et al. **Calcif Tissue Int** 1996 Nov;59(5):385–91
Androgen–receptor blockade does not impair bone mineral density in adolescent females. Bertelloni S, et al. **Calcif Tissue Int** 1997 Jul;61(1):1–5
Prophylactic effects of 1,24,25–trihydroxyvitamin D3 on ovariectomy–induced cancellous bone loss in the rat. Erben RG, et al. **Calcif Tissue Int** 1997 May;60(5):434–40
1alpha–hydroxyvitamin D2 partially dissociates between preservation of cancellous bone mass and effects on calcium homeostasis in ovariectomized rats. Erben RG, et al. **Calcif Tissue Int** 1997 May;60(5):449–56
Effect of salmon calcitonin on femoral bone quality in adult ovariectomized ewes. Geusens P, et al. **Calcif Tissue Int** 1996 Oct;59(4):315–20
Comparison of calcitriol treatment with etidronate–calcitriol and calcitonin–calcitriol combinations in Turkish women with postmenopausal osteoporosis: a prospective study. Gürlek A, et al. **Calcif Tissue Int** 1997 Jul;61(1):39–43
Growth hormone, osteoblasts, and marrow adipocytes: a case report. Kröger H, et al. **Calcif Tissue Int** 1997 Jul;61(1):33–5
Supraphysiologic levels of testosterone affect cancellous and cortical bone in the young female cynomolgus monkey. Lundon K, et al. **Calcif Tissue Int** 1997 Jan;60(1):54–62
The response to calcitriol therapy in postmenopausal osteoporotic women is a function of initial calcium absorptive status. Need AG, et al. **Calcif Tissue Int** 1997 Jul;61(1):6–9
Increase in femoral bone mass by ipriflavone alone and in combination with 1 alpha–hydroxyvitamin D3 in growing rats with skeletal unloading. Notoya K, et al. **Calcif Tissue Int** 1996 Feb;58(2):88–94
Effect of tobacco consumption on bone mineral density in healthy young males. Ortego–Centeno N, et al. **Calcif Tissue Int** 1997 Jun;60(6):496–500
Fluoride treatment increased serum IGF–1, bone turnover, and bone mass, but not bone strength, in rabbits. Turner CH, et al. **Calcif Tissue Int** 1997 Jul;61(1):77–83
Longitudinal changes of bone mineral density and bone turnover in postmenopausal women on thyroxine. Guo CY, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):301–7
Bone mineral density in relation to glucocorticoid substitution therapy in adult patients with 21–hydroxylase deficiency. Jääskeläinen J, et al. **Clin Endocrinol (Oxf)** 1996 Dec; 45(6):707–13
Effects of prolonged bisphosphonate therapy and its discontinuation on bone mineral density in post–menopausal osteoporosis. Orr–Walker B, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):87–92
Effect of resistance exercise and growth hormone on bone density in older men. Yarasheski KE, et al. **Clin Endocrinol (Oxf)** 1997 Aug;47(2):223–9
The effect of oral 1 alpha–hydroxycalciferol treatment on bone mineral density in hemodialysis patients. Morita A, et al. **Clin Nephrol** 1996 Dec;46(6):389–93
Site–dependent bone mineral density response to oral pamidronate and calcium in postmenopausal osteoporosis: a preliminary report. Barreira JC, et al. **Clin Rheumatol** 1997 Jun;16(4):346–52
The effect of a modified etidronate cyclical regimen on postmenopausal osteoporosis: a four–year study. Lyritis GP, et al. **Clin Rheumatol** 1997 Jun;16(4):354–60
Effects on bone mineral density of low–dosed oral contraceptives compared to and combined with physical activity. Hartard M, et al. **Contraception** 1997 Feb; 55(2):87–90
Intranasal salcatonin (salmon calcitonin). A review of its pharmacological properties and role in the management of postmenopausal osteoporosis. Plosker GL, et al. **Drugs Aging** 1996 May;8(5):378–400 (146 ref.)
Effect of 1 alpha–hydroxyvitamin D3 on loss of bone mineral density immediately after artificial menopause. Kato T, et al. **Endocr J** 1997 Apr;44(2):299–304
Combined effects of dehydroepiandrosterone and EM–800 on bone mass, serum lipids, and the development of dimethylbenz(A)anthracene–induced mammary carcinoma in the rat. Luo S, et al. **Endocrinology** 1997 Oct; 138(10):4435–44
Effect of dehydroepiandrosterone on bone mass, serum lipids, and dimethylbenz(a)anthracene–induced mammary carcinoma in the rat. Luo S, et al. **Endocrinology** 1997 Aug; 138(8):3387–94
Aromatase inhibition impairs skeletal modeling and decreases bone mineral density in growing male rats. Vanderschueren D, et al. **Endocrinology** 1997 Jun;138(6):2301–7
Bone mineral density in patients receiving suppressive doses of thyroxine for differentiated thyroid carcinoma. Görres G, et al. **Eur J Nucl Med** 1996 Jun;23(6):690–2
Bone mineral density in adolescent females treated with L–thyroxine: a longitudinal study. Saggese G, et al. **Eur J Pediatr** 1996 Jun;155(6):452–7

Retreatment with nafarelin for recurrent endometriosis symptoms: efficacy, safety, and bone mineral density. Hornstein MD, et al. **Fertil Steril** 1997 Jun;67(6):1013–8

Effects of long–term maternal intravenous magnesium sulfate therapy on neonatal calcium metabolism and bone mineral content. Schanler RJ, et al. **Gynecol Obstet Invest** 1997; 43(4):236–41

A slightly suppressive dose of L–thyroxine does not affect bone turnover and bone mineral density in pre– and postmenopausal women with nontoxic goitre. De Rosa G, et al. **Horm Metab Res** 1995 Nov;27(11):503–7

Changes in bone mineral density, growth velocity and renal function of prepubertal uremic children during growth hormone treatment. Lanes R, et al. **Horm Res** 1996; 46(6):263–8

Medroxyprogesterone acetate with Zoladex for long–term treatment of fibroids: effects on bone density and patient acceptability. Caird LE, et al. **Hum Reprod** 1997 Mar; 12(3):436–40

The effect of microbial phytase in a pearl millet–soybean meal diet on apparent digestibility and retention of nutrients, serum mineral concentration, and bone mineral density of nursery pigs. Murry AC, et al. **J Anim Sci** 1997 May;75(5):1284–91

Aspirin and NSAID use in older women: effect on bone mineral density and fracture risk. Study of Osteoporotic Fractures Research Group. Bauer DC, et al. **J Bone Miner Res** 1996 Jan;11(1):29–35

Strontium distribution and interactions with bone mineral in monkey iliac bone after strontium salt (S 12911) administration. Boivin G, et al. **J Bone Miner Res** 1996 Sep;11(9):1302–11

Aluminum potentiates the effect of fluoride on tyrosine phosphorylation and osteoblast replication in vitro and bone mass in vivo. Caverzasio J, et al. **J Bone Miner Res** 1996 Jan;11(1):46–55

Serum N–terminal osteocalcin is a good indicator for estimating responders to hormone replacement therapy in postmenopausal women. Chen JT, et al. **J Bone Miner Res** 1996 Nov;11(11):1784–92

A new synthetic steroid, osaterone acetate (TZP–4238), increases cortical bone mass and strength by enhancing bone formation in ovariectomized rats. Fuse H, et al. **J Bone Miner Res** 1997 Apr;12(4):590–7

Short–term intravenous bisphosphonates in prevention of postmenopausal bone loss. Heikkinen JE, et al. **J Bone Miner Res** 1997 Jan;12(1):103–10

Inhibition of bone resorption by pamidronate cannot restore normal gain in cortical bone mass and strength in tail–suspended rapidly growing rats. Kodama Y, et al. **J Bone Miner Res** 1997 Jul;12(7):1058–67

Is skeletal responsiveness to thyroid hormone altered in primary osteoporosis or following estrogen replacement therapy? Langdahl BL, et al. **J Bone Miner Res** 1997 Jan; 12(1):78–88

Skeletal integrity in men chronically treated with suppressive doses of L–thyroxine. Marcocci C, et al. **J Bone Miner Res** 1997 Jan;12(1):72–7

Temporal expression of the anabolic action of PTH in cancellous bone of ovariectomized rats. Meng XW, et al. **J Bone Miner Res** 1996 Apr;11(4):421–9

Sequential effects of chronic human PTH (1–84) treatment of estrogen–deficiency osteopenia in the rat. Mitlak BH, et al. **J Bone Miner Res** 1996 Apr;11(4):430–9

Maintaining bone mass by bisphosphonate incadronate disodium (YM175) sequential treatment after discontinuation of intermittent human parathyroid hormone (1–34) administration in ovariectomized rats. Takano Y, et al. **J Bone Miner Res** 1996 Feb;11(2):169–77

Effects of a synthetic vitamin D analog, ED–71, on bone dynamics and strength in cancellous and cortical bone in prednisolone–treated rats. Tanaka Y, et al. **J Bone Miner Res** 1996 Mar;11(3):325–36

Short–term effects of high dose oral medroxyprogesterone acetate on bone density in premenopausal women [see comments] Cundy T, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1014–7. Comment in: J Clin Endocrinol Metab 1996 Dec;81(12):4500–1.

Treatment of isolated hypogonadotropic hypogonadism effect on bone mineral density and bone turnover. Guo CY, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):658–65

A randomized controlled trial to compare the efficacy of cyclical parathyroid hormone versus cyclical parathyroid hormone and sequential calcitonin to improve bone mass in postmenopausal women with osteoporosis. Hodsman AB, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):620–8

Antiresorptive therapy in hyperthyroid patients: longitudinal changes in bone and mineral metabolism. Jódar E, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1989–94

Two years of growth hormone (GH) treatment increases bone mineral content and density in hypopituitary patients with adult–onset GH deficiency [see comments] Johannsson G, et al. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2865–73. Comment in: J Clin Endocrinol Metab 1997 Apr;82(4):1304–6.

Increase in bone density and lean body mass during testosterone administration in men with acquired hypogonadism. Katznelson L, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4358–65

Aromatase deficiency in a female who is compound heterozygote for two new point mutations in the P450arom gene: impact of estrogens on hypergonadotropic hypogonadism, multicystic ovaries, and bone densitometry in childhood. Mullis PE, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1739–45

High dose medroxyprogesterone, rates of bone resorption, and changes in spinal bone density [letter; comment] Prior JC. **J Clin Endocrinol Metab** 1996 Dec;81(12):4500–1. Comment on: J Clin Endocrinol Metab 1996 Mar;81(3):1014–7.

The effect of long–term growth hormone (GH) treatment on bone mineral density in children with GH deficiency. Role of GH in the attainment of peak bone mass. Saggese G, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3077–83

Effects on bone mass of long term treatment with thyroid hormones: a meta–analysis. Uzzan B, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4278–89

Calcium–enriched foods and bone mass growth in prepubertal girls: a randomized, double–blind, placebo–controlled trial. Bonjour JP, et al. **J Clin Invest** 1997 Mar 15;99(6):1287–94

Chemical castration induced by adjuvant cyclophosphamide, methotrexate, and fluorouracil chemotherapy causes rapid bone loss that is reduced by clodronate: a randomized study in premenopausal breast cancer patients. Saarto T, et al. **J Clin Oncol** 1997 Apr;15(4):1341–7

Effects of recombinant growth hormone (GH) treatment on bone mineral density and body composition in adults with childhood onset growth hormone deficiency. Sartorio A, et al. **J Endocrinol Invest** 1996 Sep;19(8):524–9

Influence of fat intake and caloric restriction on bone in aging male rats. Sanderson JP, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan;52(1):B20–5

Site–specific effect of testosterone on bone mineral density in male hypogonadism. Choi HR, et al. **J Korean Med Sci** 1995 Dec;10(6):431–5

Effect of TSH–suppressive doses of levothyroxine on bone mineral density in Thai women. Ongphiphadhanakul B, et al. **J Med Assoc Thai** 1996 Sep;79(9):563–7

Cortical elasticity in aging rats with and without growth hormone treatments. Kohles SS, et al. **J Med Eng Technol** 1996 Jul–Oct;20(4–5):157–63

Next generation of SERMs being seen in clinic [news] Smigel K. **J Natl Cancer Inst** 1997 Jul 2;89(13):913

Vitamin C supplementation does not modify bone mineral content or mineral absorption in growing pigs. Pointillart A, et al. **J Nutr** 1997 Aug;127(8):1514–8

A prospective comparison of bone density in adolescent girls receiving depot medroxyprogesterone acetate (Depo–Provera), levonorgestrel (Norplant), or oral contraceptives. Cromer BA, et al. **J Pediatr** 1996 Nov; 129(5):671–6

Effect of valproate on bone mineral density [letter; comment] Gilles P, et al. **J Pediatr** 1996 Mar;128(3):441. Comment on: J Pediatr 1995 Aug;127(2):256–62.

The effect of long–term thyroxine on bone mineral density and serum cholesterol. Fowler PB, et al. **J R Coll Physicians Lond** 1996 Nov–Dec;30(6):527–32

Effects of low dose methotrexate on the bone mineral density of patients with rheumatoid arthritis. Buckley LM, et al. **J Rheumatol** 1997 Aug;24(8):1489–94

Increase of bone mineral density and anabolic variables in patients with rheumatoid arthritis resistant to methotrexate after cyclosporin A therapy. Ferraccioli G, et al. **J Rheumatol** 1996 Sep;23(9):1539–42

Limited bone loss due to corticosteroids; a systematic review of prospective studies in rheumatoid arthritis and other diseases. Verhoeven AC, et al. **J Rheumatol** 1997 Aug; 24(8):1495–503

Environmental estrogens: effects on cholesterol lowering and bone in the ovariectomized rat. Dodge JA, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):155–61

Effects of hormone therapy on bone mineral density: results from the postmenopausal estrogen/progestin interventions (PEPI) trial. The Writing Group for the PEPI [see comments] **JAMA** 1996 Nov 6;276(17):1389–96. Comment in: JAMA 1996 Nov 6;276(17):1430–2. Comment in: JAMA 1997 May 21;277(19):1515; discussion 1515–7.

Timing of postmenopausal estrogen for optimal bone mineral density. The Rancho Bernardo Study. Schneider DL, et al. **JAMA** 1997 Feb 19;277(7):543–7

Randomised controlled study of effect of parathyroid hormone on vertebral–bone mass and fracture incidence among postmenopausal women on oestrogen with osteoporosis. Lindsay R, et al. **Lancet** 1997 Aug 23; 350(9077):550–5

Osteopenia in genetically diabetic DB/DB mice and effects of 1alpha–hydroxyvitamin D3 on the osteopenia. Basic Research Group. Takeshita N, et al. **Life Sci** 1995 Feb 17;56(13):1095–101

The effect of hormone replacement therapy on bone mass in patients with ovarian failure due to bone marrow transplantation. Castelo–Branco C, et al. **Maturitas** 1996 Apr;23(3):307–12

Effects of hormone deficiency, androgen therapy and calcium supplementation on bone mineral density in female transsexuals. Goh HH, et al. **Maturitas** 1997 Jan;26(1):45–52

Vitamin D treatment and bone mineral density in the aged. Heikinheimo R, et al. **Maturitas** 1996 May;23 Suppl:S77–80

Estrogen and bone metabolism. Väänänen HK, et al. **Maturitas** 1996 May;23 Suppl:S65–9 (27 ref.)

Hormone replacement therapy increases trabecular and cortical bone density in osteoporotic women. Bagur A, et al. **Medicina (B Aires)** 1996;56(3):247–51

Gonadotropin–releasing hormone analog plus an oral contraceptive containing desogestrel in women with severe hirsutism: effects on hair, bone, and hormone profile after 1–year use. Castelo–Branco C, et al. **Metabolism** 1997 Apr; 46(4):437–40

Effect of disodium monofluorophosphate, calcium and vitamin D supplementation on bone mineral density in patients chronically treated with glucocorticosteroids: a prospective, randomized, double–blind study. Lippuner K, et al. **Miner Electrolyte Metab** 1996;22(4):207–13

Effect of calcium and vitamin D supplementation on bone density in men and women 65 years of age or older [see comments] Dawson–Hughes B, et al. **N Engl J Med** 1997 Sep 4;337(10):670–6. Comment in: N Engl J Med 1997 Sep 4;337(10):701–2.

The effect of calcium supplementation on bone density during lactation and after weaning [see comments] Kalkwarf HJ, et al. **N Engl J Med** 1997 Aug 21;337(8):523–8. Comment in: N Engl J Med 1997 Aug 21;337(8):558–9.

Calcium supplementation during breast–feeding [editorial; comment] Prentice A. **N Engl J Med** 1997 Aug 21; 337(8):558–9. Comment on: N Engl J Med 1997 Aug 21;337(8):523–8.

Effect of treatment with 1.25 and 1.75 mmol/l calcium dialysate on bone mineral density in haemodialysis patients. Van der Niepen P, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2253–8

The effects of inhaled glucocorticoids on bone mass and biochemical markers of bone homeostasis: a 1–year study of beclomethasone versus budesonide. Struijs A, et al. **Neth J Med** 1997 Jun;50(6):233–7

Predictors of bone mineral loss in patients with ovarian cancer treated with anticancer agents. Douchi T, et al. **Obstet Gynecol** 1997 Jul;90(1):12–5

Ipriflavone prevents radial bone loss in postmenopausal women with low bone mass over 2 years. Adami S, et al. **Osteoporos Int** 1997;7(2):119–25

A 4–year follow–up study of the effects of calcium supplementation on bone density in elderly postmenopausal women. Devine A, et al. **Osteoporos Int** 1997;7(1):23–8

Vitamin D and HRT: no benefit additional to that of HRT alone in prevention of bone loss in early postmenopausal women. A 2.5–year randomized placebo–controlled study. Komulainen M, et al. **Osteoporos Int** 1997;7(2):126–32

The effect of calcium supplementation and Tanner stage on bone density, content and area in teenage women. Lloyd T, et al. **Osteoporos Int** 1996;6(4):276–83

A high dietary calcium intake is needed for a positive effect on bone density in Swedish postmenopausal women. Michaëlsson K, et al. **Osteoporos Int** 1997;7(2):155–61

A co–twin study of the effect of calcium supplementation on bone density during adolescence. Nowson CA, et al. **Osteoporos Int** 1997;7(3):219–25

Proteins and bone health. Bonjour JP, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):57–9 (31 ref.)

The effects of supplemental microbial phytase on the performance and utilization of dietary calcium, phosphorus, copper, and zinc in broiler chickens fed corn–soybean diets. Sebastian S, et al. **Poult Sci** 1996 Jun;75(6):729–36

Alendronate stimulation of nocturnal parathyroid hormone secretion: a mechanism to explain the continued improvement in bone mineral density accompanying alendronate therapy [published erratum appears in Proc Assoc Am Physicians 1996 Jul;108(4):following table of contente] Greenspan SL, et al. **Proc Assoc Am Physicians** 1996 May;108(3):230–8

Are drugs helpful in adults with osteogenesis imperfecta? [editorial] Chevrel G, et al. **Rev Rhum Engl Ed** 1997 May; 64(5):283–6

Bone mineral density in patients given oral vitamin K antagonists. Lafforgue P, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):249–54

Calcium and vitamin D in the prevention and treatment of osteoporosis. Orcel P. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):70S–74S (50 ref.)

Alendronate: preclinical studies. Rodan GA. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):50S–52S

Skeletal changes in multiparous, nulliparous and ovariectomized mice fed either a nutrient–sufficient or –deficient diet containing cadmium. Whelton BD, et al. **Toxicology** 1997 Apr 30;119(2):103–21

Efficiency of preventive treatment of glucocorticoid–induced osteoporosis with 25–hydroxyvitamin D3 and calcium in kidney transplant patients. Tałałaj M, et al. **Transplant Proc** 1996 Dec;28(6):3485–7

Effects of three immunosuppressive regimens on vertebral bone density in renal transplant recipients: a prospective study. Aroldi A, et al. **Transplantation** 1997 Feb 15; 63(3):380–6

Salmon calcitonin and calcium in the treatment of male osteoporosis: the effect on bone mineral density. Erlacher L, et al. **Wien Klin Wochenschr** 1997 Apr 25;109(8):270–4

[The effect of clodronate on bone density in patients with multiple myeloma--a 2–year follow–up of therapeutic effects] Adam Z, et al. **Vnitr Lek** 1996 Jun;42(6):379–85 (Eng. Abstr.) **(Cze)**

[Soft tissue changes in adults with acquired growth hormone deficiency during substitution treatment. A double–blind, randomized, placebo–controlled study after a year of treatment] Hansen TB, et al. **Ugeskr Laeger** 1997 Jul 7; 159(28):4394–9 (Eng. Abstr.) **(Dan)**

[Bone loss during low dose glucocorticoid treatment in

patients with polymyalgia rheumatica. A double-blind, prospective comparison between prednisolone and deflazacort] Krogsgaard MR, et al. **Ugeskr Laeger** 1997 Jul 21;159(30):4641-4 (Eng. Abstr.) **(Dan)**

[Evaluation of bone loss in patient treated with Gn-Rh analogs] Cassese E, et al. **Minerva Ginecol** 1997 Jun; 49(6):255-9 (Eng. Abstr.) **(Ita)**

[Mammography changes associated with hormone replacement therapy in post-menopausal patients] Del Favero C, et al. **Radiol Med (Torino)** 1997 Mar;93(3):210-3 (Eng. Abstr.) **(Ita)**

[Evaluation of bone density in rats after hydrocortisone and microwave radiation] Olchowik G. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):163-7 (Eng. Abstr.) **(Pol)**

[Evaluation of bone mineral density in the distal radius of former workers employed at the Aluminum Works] Czerwiński E, et al. **Przegl Lek** 1997;54(4):269-71 (Eng. Abstr.) **(Pol)**

[Thiazide diuretics and calcium metabolism: role in renal lithiasis and osteoporosis] Suárez Fernández C, et al. **An Med Interna** 1996 Aug;13(8):401-6 (52 ref.) (Eng. Abstr.) **(Spa)**

[Bone mineral density in female patients with systemic lupus erythematosus treated with high glucocorticoid doses] Formiga F, et al. **Rev Clin Esp** 1996 Nov;196(11):747-50 (Eng. Abstr.) **(Spa)**

GENETICS

Linkage of a gene causing high bone mass to human chromosome 11 (11q12-13) [see comments] Johnson ML, et al. **Am J Hum Genet** 1997 Jun;60(6):1326-32. Comment in: Am J Hum Genet 1997 Jun;60(6):1309-11.

Searching for gene defects that cause high bone mass [editorial; comment] Whyte MP. **Am J Hum Genet** 1997 Jun;60(6):1309-11 (20 ref.). Comment on: Am J Hum Genet 1997 Jun;60(6):1326-32.

Bone mass loss due to estrogen deficiency is compensated in transgenic mice overexpressing human osteoblast stimulating factor-1. Masuda H, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):528-33

Genetic variability in adult bone density among inbred strains of mice. Beamer WG, et al. **Bone** 1996 May;18(5):397-403

Polymorphisms of the interleukin-6 gene are associated with bone mineral density. Murray RE, et al. **Bone** 1997 Jul; 21(1):89-92

Bone mineral density and bone markers in relation to vitamin D receptor gene polymorphisms in Chinese men and women. Tsai KS, et al. **Bone** 1996 Nov;19(5):513-8

Polymorphisms of the vitamin D receptor, infant growth, and adult bone mass. Keen RW, et al. **Calcif Tissue Int** 1997 Mar;60(3):233-5

Body size accounts for most differences in bone density between Asian and Caucasian women. The EPIC (Early Postmenopausal Interventional Cohort) Study Group. Ross PD, et al. **Calcif Tissue Int** 1996 Nov;59(5):339-43

Vitamin D receptor genotype is not associated with bone mineral density in three ethnic/regional groups. Spotila LD, et al. **Calcif Tissue Int** 1996 Oct;59(4):235-7

Correlation between vitamin D receptor genotypes and bone mineral density in Japanese patients with osteoporosis. Tamai M, et al. **Calcif Tissue Int** 1997 Mar;60(3):229-32

Common polymorphism of the vitamin D receptor gene is associated with variation of peak bone mass in young finns. Viitanen A, et al. **Calcif Tissue Int** 1996 Oct;59(4):231-4

Vitamin D receptor gene polymorphism in men and its effect on bone density and calcium absorption. Francis RM, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):83-6

A vitamin D receptor gene polymorphism in the translation initiation codon: effect on protein activity and relation to bone mineral density in Japanese women. Arai H, et al. **J Bone Miner Res** 1997 Jun;12(6):915-21

The heritability of bone mineral density, ultrasound of the calcaneus and hip axis length: a study of postmenopausal twins. Arden NK, et al. **J Bone Miner Res** 1996 Apr; 11(4):530-4

Are vitamin D receptor polymorphisms associated with bone mineral density? A meta-analysis [see comments] Cooper GS, et al. **J Bone Miner Res** 1996 Dec;11(12):1841-9. Comment in: J Bone Miner Res 1996 Dec;11(12):1835-40.

The presence of a polymorphism at the translation initiation site of the vitamin D receptor gene is associated with low bone mineral density in postmenopausal Mexican-American women [see comments] Gross C, et al. **J Bone Miner Res** 1996 Dec;11(12):1850-5. Comment in: J Bone Miner Res 1996 Dec;11(12):1835-40.

The vitamin D receptor start codon polymorphism (FokI) and bone mineral density in premenopausal American black and white women. Harris SS, et al. **J Bone Miner Res** 1997 Jul;12(7):1043-8

The BsmI vitamin D receptor restriction fragment length polymorphism (bb) influences the effect of calcium intake on bone mineral density. Kiel DP, et al. **J Bone Miner Res** 1997 Jul;12(7):1049-57

Association of bone mineral density with polymorphism of the estrogen receptor gene. Kobayashi S, et al. **J Bone Miner Res** 1996 Mar;11(3):306-11

Vitamin D receptor polymorphisms, bone mineral density, and bone metabolism in postmenopausal Mexican-American women. McClure L, et al. **J Bone Miner Res** 1997 Feb;12(2):234-40

Determinants of premenopausal bone mineral density: the interplay of genetic and lifestyle factors. Salamone LM, et al. **J Bone Miner Res** 1996 Oct;11(10):1557-65

A large-scale population-based study of the association of vitamin D receptor gene polymorphisms with bone mineral density. Uitterlinden AG, et al. **J Bone Miner Res** 1996 Sep;11(9):1241-8

Influence of the vitamin D receptor gene alleles on bone mineral density in postmenopausal and osteoporotic women. Vandevyver C, et al. **J Bone Miner Res** 1997 Feb; 12(2):241-7

Genotypes of the vitamin-D-receptor gene and bone mineral density in Caucasoid postmenopausal females [published erratum appears in Maturitas 1996 Aug;25(1):84] Boschitsch E, et al. **Maturitas** 1996 May;24(1-2):91-6

Vitamin D receptor alleles do not correlate with bone mineral density in premenopausal Caucasian women from the southeastern United States. Alahari KD, et al. **Metabolism** 1997 Feb;46(2):224-6

Vitamin D-receptor genotypes and bone density [editorial; comment] Riggs BL. **N Engl J Med** 1997 Jul 10; 337(2):125-6. Comment on: N Engl J Med 1997 Jul 10;337(2):77-82.

Vitamin D-receptor gene polymorphisms and bone density in prepubertal American girls of Mexican descent [see comments] Sainz J, et al. **N Engl J Med** 1997 Jul 10; 337(2):77-82. Comment in: N Engl J Med 1997 Jul 10;337(2):125-6.

Reduced bone density and osteoporosis associated with a polymorphic Sp1 binding site in the collagen type I alpha 1 gene. Grant SF, et al. **Nat Genet** 1996 Oct;14(2):203-5

The genetics of osteoporosis. Ralston SH. **QJM** 1997 Apr; 90(4):247-51 (38 ref.)

PHYSIOLOGY

Effects of masticatory muscle function on bone mass in the mandible of the growing rat. Kiliaridis S, et al. **Acta Anat (Basel)** 1996;155(3):200-5

Spatio-temporal self-organization of bone mineral metabolism and trabecular structure of primary bone. Courtin B, et al. **Acta Biotheor** 1995 Dec;43(4):373-86

Longitudinal monitoring of bone mineral density in thalassemic patients. Genetic structure and osteoporosis. Filosa A, et al. **Acta Paediatr** 1997 Apr;86(4):342-6

Physical activity and dietary constituents as predictors of forearm cortical and trabecular bone gain in healthy children and adolescents: a prospective study. Gunnes M, et al. **Acta Paediatr** 1996 Jan;85(1):19-25

Evaluation of bone mineral density in CAPD patients with dual energy X-ray absorptiometry. Pasadakis P, et al. **Adv Perit Dial** 1996;12:245-9

Determinants of age-associated changes in os calcis ultrasonic indices in elderly women: potential involvement of geriatric hyposomatotropism in bone fragility. Boonen S, et al. **Age Ageing** 1997 Mar;26(2):139-46

Body composition of a young, multiethnic female population. Ellis KJ, et al. **Am J Clin Nutr** 1997 Mar;65(3):724-31

Bone mineral density changes during lactation: maternal, dietary, and biochemical correlates. Krebs NF, et al. **Am J Clin Nutr** 1997 Jun;65(6):1738-46

Comparison of body composition and bone mineral measurements from two DXA instruments in young men. Modlesky CM, et al. **Am J Clin Nutr** 1996 Nov; 64(5):669-76

Nutritional influences on bone mineral density: a cross-sectional study in premenopausal women. New SA, et al. **Am J Clin Nutr** 1997 Jun;65(6):1831-9

Age-related factors in the pathogenesis of senile (Type II) femoral neck fractures. Boonen S, et al. **Am J Orthop** 1996 Mar;25(3):198-204 (107 ref.)

Pattern of fall and bone mineral density measurement in hip fractures. Goh JC, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):820-3

Bone mineral density in fractures treated with absorbable or metallic implants. Juutilainen T, et al. **Ann Chir Gynaecol** 1997;86(1):51-5

Dual-energy X-ray absorptiometry predicts bone formation in lower limb callotasis lengthening. Maffulli N, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):250-6

Mobility status and bone density in cerebral palsy. Wilmshurst S, et al. **Arch Dis Child** 1996 Aug;75(2):164-5

Low bone mineral density in small for gestational age infants: correlation with cord blood zinc concentrations. Chunga Vega F, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep; 75(2):F126-9

Localized osteoarticular change due to joint immobilization; biomechanical test and bone densitometry in rat's hind limb model. Akai M, et al. **Arch Orthop Trauma Surg** 1997; 116(3):129-32

Establishing healthy bones in the young. Reid IR. **Aust Fam Physician** 1997 Feb;26(2):132-4

Do men suffer with osteoporosis? Seeman E. **Aust Fam Physician** 1997 Feb;26(2):135-43

Cortical and cancellous bone in the human femoral neck: evaluation of an interactive image analysis system. Bell KL, et al. **Bone** 1996 Nov;19(5):541-8

Bone mass and bone turnover in power athletes, endurance athletes, and controls: a 12-month longitudinal study. Bennell KL, et al. **Bone** 1997 May;20(5):477-84

Bone mass and endocrine adaptations to training in spinal cord injured individuals. Bloomfield SA, et al. **Bone** 1996 Jul;19(1):61-8

Histomorphometric analysis of bone mass and bone metabolism in growth hormone deficient adult men. Bravenboer N, et al. **Bone** 1996 Jun;18(6):551-7

The effect of advancing age on bone mineral content of female rhesus monkeys. Champ JE, et al. **Bone** 1996 Nov; 19(5):485-92

Effects of anteversion on femoral bone mineral density and geometry measured by dual energy X-ray absorptiometry: a cadaver study. Cheng XG, et al. **Bone** 1997 Jul; 21(1):113-7

Primary hyperparathyroidism: biochemical markers and bone mineral density at multiple skeletal sites in Danish patients. Christiansen P, et al. **Bone** 1997 Jul;21(1):93-9

Effects of 1- and 6-month spaceflight on bone mass and biochemistry in two humans. Collet P, et al. **Bone** 1997 Jun;20(6):547-51

Influence of pattern of clinical presentation and of gluten-free diet on bone mass and metabolism in adult coeliac disease. Corazza GR, et al. **Bone** 1996 Jun;18(6):525-30

Insulin-like growth factor I as a predictor of cortical bone mass in a long-term study of ovariectomized and estrogen-treated rats. Danielsen CC, et al. **Bone** 1996 Nov; 19(5):493-8

Axial osteomalacia: report of a new case with selective increase in axial bone mineral density. Demiaux-Domenech B, et al. **Bone** 1996 Jun;18(6):633-7

Accelerated bone mineral loss following a hip fracture: a prospective longitudinal study. Dirschl DR, et al. **Bone** 1997 Jul;21(1):79-82

Bone densitometry of the forearm: comparison of single-photon and dual-energy X-ray absorptiometry. Eckert P, et al. **Bone** 1996 Jun;18(6):575-9

Mechanical validation of a tomographic (pQCT) index for noninvasive estimation of rat femur bending strength. Ferretti JL, et al. **Bone** 1996 Feb;18(2):97-102

Different loads can produce similar bone density distributions. Fischer KJ, et al. **Bone** 1996 Aug;19(2):127-35

Ultrasound measurements in the calcaneus: precision and its relation with bone mineral density of the heel, hip, and lumbar spine. Graafmans WC, et al. **Bone** 1996 Aug; 19(2):97-100

Heterogeneity of trabecular and cortical postmenopausal bone loss: a longitudinal study with pQCT. Hernández ER, et al. **Bone** 1997 Mar;20(3):283-7

The ability of ultrasound velocity to predict the stiffness of cancellous bone in vitro. Hodgskinson R, et al. **Bone** 1997 Aug;21(2):183-90

Determinants of vertebral fracture prevalence among native Japanese women and women of Japanese descent living in Hawaii. Huang C, et al. **Bone** 1996 May;18(5):437-42

Relative contributions of age and menopause to the vertebral bone density of healthy Japanese women. Iki M, et al. **Bone** 1996 Jun;18(6):617-20

Lateral dual X-ray absorptiometry of the lumbar spine: current status [editorial] Jergas M, et al. **Bone** 1997 Apr; 20(4):311-4 (39 ref.)

Improved reproducibility of broadband ultrasound attenuation of the os calcis by using a specific region of interest. Jørgensen HL, et al. **Bone** 1997 Jul;21(1):109-12

Bone mass and soft tissue composition in adolescents with anorexia nervosa. Kooh SW, et al. **Bone** 1996 Aug; 19(2):181-8

Volumetric quantitative computed tomography of the proximal femur: precision and relation to bone strength. Lang TF, et al. **Bone** 1997 Jul;21(1):101-8

Prediction of mechanical properties of the human calcaneus by broadband ultrasonic attenuation. Langton CM, et al. **Bone** 1996 Jun;18(6):495-503

Body composition and bone mineral density of Chinese women with vertebral fracture. Lau EM, et al. **Bone** 1996 Dec;19(6):657-62

In vitro assessment of the relationship between acoustic properties and bone mass density of the calcaneus by comparison of ultrasound parametric imaging and quantitative computed tomography. Laugier P, et al. **Bone** 1997 Feb;20(2):157-65

Tibial ultrasound velocity measured in situ predicts the material properties of tibial cortical bone. Lee SC, et al. **Bone** 1997 Jul;21(1):119-25

Time course of femoral neck osteopenia in ovariectomized rats. Li M, et al. **Bone** 1997 Jan;20(1):55-61

Bone mineral density in normal Swedish women. Löfman O, et al. **Bone** 1997 Feb;20(2):167-74

Cortical and total bone mineral content of the radius: accuracy of peripheral computed tomography. Louis O, et al. **Bone** 1996 May;18(5):467-72

Pyridoxine deficiency affects biomechanical properties of chick tibial bone. Massé PG, et al. **Bone** 1996 Jun; 18(6):567-74

Body mass is the primary determinant of midfemoral bone acquisition during adolescent growth. Moro M, et al. **Bone** 1996 Nov;19(5):519-26

The accumulation of whole body skeletal mass in third- and fourth-grade children: effects of age, gender, ethnicity, and body composition. Nelson DA, et al. **Bone** 1997 Jan; 20(1):73-8

High bone mass and altered relationships between bone mass, muscle strength, and body constitution in adolescent boys on a high level of physical activity. Nordström P, et al. **Bone** 1996 Aug;19(2):189-95

Evaluation of vertebral volumetric vs. areal bone mineral density during growth. Ott SM, et al. **Bone** 1997 Jun; 20(6):553-6

Fourier transform infrared microspectroscopic analysis identifies alterations in mineral properties in bones from mice transgenic for type X collagen. Paschalis EP, et al. **Bone** 1996 Aug;19(2):151–6

Bone density: BMC, BMD or corrected BMD? [letter; comment] Puche RC. **Bone** 1996 Jul;19(1):74–6. Comment on: Bone 1995 Jan;16(1):5–7.

High bone turnover is associated with low bone mass in both pre– and postmenopausal women. Ravn P, et al. **Bone** 1996 Sep;19(3):291–8

Low bone mass and fast rate of bone loss at menopause: equal risk factors for future fracture: a 15–year follow–up study. Riis BJ, et al. **Bone** 1996 Jul;19(1):9–12

Dynamic relationships of trabecular bone density, architecture, and strength in a computational model of osteopenia. Siffert RS, et al. **Bone** 1996 Feb;18(2):197–206

Modeling the mechanical behavior of vertebral trabecular bone: effects of age–related changes in microstructure. Silva MJ, et al. **Bone** 1997 Aug;21(2):191–9

Three–year controlled, randomized trial of the effect of dose–specified loading and strengthening exercises on bone mineral density of spine and femur in nonathletic, physically active women. Sinaki M, et al. **Bone** 1996 Sep; 19(3):233–44

Hyperinsulinemia and bone mineral density in an elderly population: The Rotterdam Study [published erratum appears in Bone 1996 Nov;19(5):566] Stolk RP, et al. **Bone** 1996 Jun;18(6):545–9

Determination of connectivity density in human iliac crest bone biopsies assessed by a computerized method. Thomsen JS, et al. **Bone** 1996 May;18(5):459–65

Quantification of remodeling parameter sensitivity––assessed by a computer simulation model. Thomsen JS, et al. **Bone** 1996 Nov;19(5):505–11

Dual–energy X–ray absorptiometers (DXA) [letter] Tothill P. **Bone** 1996 Oct;19(4):415–7 (23 ref.)

Bone densitometry of proximal femur in Chinese subjects: gender differences in bone mass and bone areas. Tsai KS, et al. **Bone** 1997 Apr;20(4):365–9

Vitamin D stores of urban women in Taipei: effect on bone density and bone turnover, and seasonal variation. Tsai KS, et al. **Bone** 1997 Apr;20(4):371–4

In vivo trabecular microcracks in human vertebral bone. Wenzel TE, et al. **Bone** 1996 Aug;19(2):89–95

Retrospective study on the usefulness of radius and lumbar bone density in the separation of hemodialysis patients with fractures from those without fractures. Yamaguchi T, et al. **Bone** 1996 Nov;19(5):549–55

Risk of underestimation of the bone mineral density of proximal femur. Yang RS, et al. **Bone** 1997 Mar; 20(3):295–300

Ovariectomy–induced high turnover in cortical bone is dependent on pituitary hormone in rats. Yeh JK, et al. **Bone** 1996 May;18(5):443–50

Bone mineral density in premenopausal women with oestrogen deficiency and symptomatic coronary heart disease. Bruck B, et al. **Br J Clin Pract** 1996 Dec; 50(8):450–3

Current diet does not relate to bone mineral density after the menopause. The Nottingham Early Postmenopausal Intervention Cohort (EPIC) Study Group. Earnshaw SA, et al. **Br J Nutr** 1997 Jul;78(1):65–72

Effect of altered reproductive function and lowered testosterone levels on bone density in male endurance athletes. Bennell KL, et al. **Br J Sports Med** 1996 Sep; 30(3):205–8 (59 ref.)

Bone mineral density in professional female dancers. Keay N, et al. **Br J Sports Med** 1997 Jun;31(2):143–7

Total and regional bone mass in female soccer players. Alfredson H, et al. **Calcif Tissue Int** 1996 Dec;59(6):438–42

Long–term vegetarian diet and bone mineral density in postmenopausal Taiwanese women. Chiu JF, et al. **Calcif Tissue Int** 1997 Mar;60(3):245–9

Total and regional bone mineral content in Spanish professional ballet dancers. Cuesta A, et al. **Calcif Tissue Int** 1996 Mar;58(3):150–4

Correlations among bone mineral density, broadband ultrasound attenuation, mechanical indentation testing, and bone orientation in bovine femoral neck samples. Duquette J, et al. **Calcif Tissue Int** 1997 Feb;60(2):181–6

Fourier transform infrared microscopy of calcified turkey leg tendon. Gadaleta SJ, et al. **Calcif Tissue Int** 1996 Jan; 58(1):17–23

Influence of electromagnetic fields on bone mass and growth in developing rats: a morphometric, densitometric, and histomorphometric study. González–Riola J, et al. **Calcif Tissue Int** 1997 Jun;60(6):533–7

Comparison between menopause–related changes in bone mineral density of the lumbar spine and the proximal femur in Japanese female athletes: a long–term longitudinal study using dual–energy X–Ray absorptiometry. Goto S, et al. **Calcif Tissue Int** 1996 Dec;59(6):461–5

Weight, body composition, and bone density in postmenopausal women. Harris SS, et al. **Calcif Tissue Int** 1996 Dec;59(6):428–32

Decreased bone mass and strength in ovariectomized cynomolgus monkeys (Macaca fascicularis). Jerome CP, et al. **Calcif Tissue Int** 1997 Mar;60(3):265–70

Effects of low–dose long–term sodium fluoride preventive treatment on rat bone mass and biomechanical properties. Jiang Y, et al. **Calcif Tissue Int** 1996 Jan;58(1):30–9

Increased bone mineral density after prolonged electrically induced cycle training of paralyzed limbs in spinal cord injured man. Mohr T, et al. **Calcif Tissue Int** 1997 Jul; 61(1):22–5

Site–specific bone mass differences of the lower extremities in 17–year–Old ice hockey players. Nordström P, et al. **Calcif Tissue Int** 1996 Dec;59(6):443–8

Bone mineral density in patients with human immunodeficiency virus infection. Paton NIJ, et al. **Calcif Tissue Int** 1997 Jul;61(1):30–2

Lumbar spine bone density in Argentine children. Plotkin H, et al. **Calcif Tissue Int** 1996 Mar;58(3):144–9

High bone turnover is associated with low bone mass and spinal fracture in postmenopausal women. Ravn P, et al. **Calcif Tissue Int** 1997 Mar;60(3):255–60

Radial cortical and trabecular bone densities of men and women standardized with the European Forearm Phantom. Reeve J, et al. **Calcif Tissue Int** 1996 Mar;58(3):135–43

Total body bone measurements in spinal osteoporosis by dual–energy X–ray absorptiometry. Revilla RM, et al. **Calcif Tissue Int** 1997 Jul;61(1):44–7

Sexual differences in bone markers and bone mineral density of normal Chinese. Tsai KS, et al. **Calcif Tissue Int** 1996 Dec;59(6):454–60

Effects of resistance training on bone mineral content and density in adolescent females. Blimkie CJ, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1025–33

Twenty weeks of weight training increases lean tissue mass but not bone mineral mass or density in healthy, active young women. Chilibeck PD, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1180–5

Postmenopausal bone mineral density: relationship to calcium intake, calcium absorption, residual estrogen, body composition, and physical activity. Hoover PA, et al. **Can J Physiol Pharmacol** 1996 Aug;74(8):911–7

Osteoprotegerin: a novel secreted protein involved in the regulation of bone density [see comments] Simonet WS, et al. **Cell** 1997 Apr 18;89(2):309–19. Comment in: Cell 1997 Apr 18;89(2):159–61.

Bone turnover and bone mineral density in patients with congenital adrenal hyperplasia. Guo CY, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):535–41

Growth hormone and the maintenance of adult bone mineral density. Inzucchi SE, et al. **Clin Endocrinol (Oxf)** 1996 Dec; 45(6):665–73 (80 ref.)

Changes in bone mineral density in rat adjuvant arthritis. Takagi T, et al. **Clin Immunol Immunopathol** 1997 Aug; 84(2):166–70

Bone mineral density in pediatric patients after renal transplantation. Behnke B, et al. **Clin Nephrol** 1996 Jul; 46(1):24–9

Body composition and muscle strength in women scheduled for a knee or hip replacement. A comparative study of two groups of osteoarthritic women. Madsen OR, et al. **Clin Rheumatol** 1997 Jan;16(1):39–44

Vertebral and metacarpal morphometry as indicators of nutritional improvement. Revilla M, et al. **Clin Rheumatol** 1997 May;16(3):279–83

Brisk walking reduces calcaneal bone loss in post–menopausal women. Brooke–Wavell K, et al. **Clin Sci (Colch)** 1997 Jan; 92(1):75–80

Rates of bone loss in peri– and postmenopausal women: a 4 year, prospective, population–based study. Young R, et al. **Clin Sci (Colch)** 1996 Sep;91(3):307–12

Effects on bone mineral density of low–dosed oral contraceptives compared to and combined with physical activity. Hartard M, et al. **Contraception** 1997 Feb; 55(2):87–90

Effect of physical activity on bone mass. Sinaki M. **Curr Opin Rheumatol** 1996 Jul;8(4):376–83 (45 ref.)

Estimation of bone mineral density and bone loss by means of bone metabolic markers in postmenopausal women. Miura H, et al. **Endocr J** 1995 Dec;42(6):797–802

Parathyroid hormone increases bone formation and improves mineral balance in vitamin D–deficient female rats. Toromanoff A, et al. **Endocrinology** 1997 Jun; 138(6):2449–57

Sex steroid hormones, bone mineral density, and risk of breast cancer. Kuller LH, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:593–9

The influence of body size, smoking, and diet on bone density in pre– and postmenopausal women. Franceschi S, et al. **Epidemiology** 1996 Jul;7(4):411–4

Bone mass and subsequent risk of hip fracture. Huang Z, et al. **Epidemiology** 1997 Mar;8(2):192–5

Hypovitaminosis D and decreased bone mineral density in amyotrophic lateral sclerosis. Sato Y, et al. **Eur Neurol** 1997;37(4):225–9

Bone quality in the lumbar spine in high–performance athletes. Sabo D, et al. **Eur Spine J** 1996;5(4):258–63

Changes in bone mineral density of lumbar vertebrae after parturition in African green monkeys (Cercopithecus aethiops). Hiyaoka A, et al. **Exp Anim** 1996 Jul;45(3):257–9

Vitamin D receptor genotypes and changes of bone density in physically active German women with high calcium intake. Rauch F, et al. **Exp Clin Endocrinol Diabetes** 1997; 105(2):103–8

The new model of age–dependent changes in bone mineral density. Xu SZ, et al. **Growth Dev Aging** 1997 Spring; 61(1):19–26

Bone densitometry: patients with asymptomatic primary hyperparathyroidism part I. Technical report. Erlichman M, et al. **Health Technol Assess** 1995 Dec;(6):1–30 (181 ref.)

Bone density patterns in women with anorexia nervosa. Siemers B, et al. **Int J Eat Disord** 1996 Mar;19(2):179–86

Body composition and bone mineral density in competitive athletes in different sports. Fiore CE, et al. **Int J Tissue React** 1996;18(4–6):121–4

Ultrasound bone velocity on proximal phalanges in premenopausal, perimenopausal, and postmenopausal healthy women. Aguado F, et al. **Invest Radiol** 1997 Jan; 32(1):66–70

The determination of serum concentrations of osteocalcin in growing pigs and its relationship to end–measures of bone mineralization. Carter SD, et al. **J Anim Sci** 1996 Nov;74(11):2719–29

Effects of spaceflight on bone mineralization in the rhesus monkey. Zerath E, et al. **J Appl Physiol** 1996 Jul; 81(1):194–200

The effects of ageing and changes in mineral content in degrading the toughness of human femora. Currey JD, et al. **J Biomech** 1996 Feb;29(2):257–60

The dependence of shear failure properties of trabecular bone on apparent density and trabecular orientation. Ford CM, et al. **J Biomech** 1996 Oct;29(10):1309–17

Adaptive bone remodeling incorporating simultaneous density and anisotropy considerations. Jacobs CR, et al. **J Biomech** 1997 Jun;30(6):603–13

Fracture toughness of bone using a compact sandwich specimen: effects of sampling sites and crack orientations. Wang X, et al. **J Biomed Mater Res** 1996 Spring;33(1):13–21

Low bone mineral content is common but osteoporotic fractures are rare in elderly rural Gambian women. Aspray TJ, et al. **J Bone Miner Res** 1996 Jul;11(7):1019–25

Prediction of fracture load at different skeletal sites by geometric properties of the cortical shell. Augat P, et al. **J Bone Miner Res** 1996 Sep;11(9):1356–63

Factors associated with bone mineral density in middle–aged men. Bendavid EJ, et al. **J Bone Miner Res** 1996 Aug; 11(8):1185–90

Differences in bone mineral in young Asian and Caucasian Americans may reflect differences in bone size. Bhudhikanok GS, et al. **J Bone Miner Res** 1996 Oct; 11(10):1545–56

Quantitative ultrasound of the calcaneus reflects the mechanical properties of calcaneal trabecular bone. Bouxsein ML, et al. **J Bone Miner Res** 1997 May; 12(5):839–46

Elevated progesterone during pseudopregnancy may prevent bone loss associated with low estrogen. Bowman BM, et al. **J Bone Miner Res** 1996 Jan;11(1):15–21

Bone microdamage and skeletal fragility in osteoporotic and stress fractures. Burr DB, et al. **J Bone Miner Res** 1997 Jan;12(1):6–15 (67 ref.)

Fat or lean tissue mass: which one is the major determinant of bone mineral mass in healthy postmenopausal women? Chen Z, et al. **J Bone Miner Res** 1997 Jan;12(1):144–51

The effect of weight–bearing exercise on bone mineral density: a study of female ex–elite athletes and the general population. Etherington J, et al. **J Bone Miner Res** 1996 Sep;11(9):1333–8

Increased bone turnover in late postmenopausal women is a major determinant of osteoporosis. Garnero P, et al. **J Bone Miner Res** 1996 Mar;11(3):337–49

Comparisons of noninvasive bone mineral measurements in assessing age–related loss, fracture discrimination, and diagnostic classification. Grampp S, et al. **J Bone Miner Res** 1997 May;12(5):697–711

Correcting the magnification error of fan beam densitometers. Griffiths MR, et al. **J Bone Miner Res** 1997 Jan; 12(1):119–23

Development of mass, density, and estimated mechanical characteristics of bones in Caucasian females. Haapasalo H, et al. **J Bone Miner Res** 1996 Nov;11(11):1751–60

Altered mineral metabolism and bone mass in children during treatment for acute lymphoblastic leukemia. Halton JM, et al. **J Bone Miner Res** 1996 Nov;11(11):1774–83

Implications of increased bone density in osteoarthritis. Hamerman D, et al. **J Bone Miner Res** 1996 Sep; 11(9):1205–8 (53 ref.)

Evaluation of cortical bone by computed tomography. Hangartner TN, et al. **J Bone Miner Res** 1996 Oct; 11(10):1518–25

Effects of unilateral strength training and detraining on bone mineral mass and estimated mechanical characteristics of the upper limb bones in young women. Heinonen A, et al. **J Bone Miner Res** 1996 Apr;11(4):490–501

Long–term changes in bone mineral and biomechanical properties of vertebrae and femur in aging, dietary calcium restricted, and/or estrogen–deprived/–replaced rats. Jiang Y, et al. **J Bone Miner Res** 1997 May;12(5):820–31

Effects of immobilization, three forms of remobilization, and subsequent deconditioning on bone mineral content and density in rat femora. Kannus P, et al. **J Bone Miner Res** 1996 Sep;11(9):1339–46

Exercise effects on bone mass in postmenopausal women are site–specific and load–dependent. Kerr D, et al. **J Bone Miner Res** 1996 Feb;11(2):218–25

Retired elite female ballet dancers and nonathletic controls have similar bone mineral density at weightbearing sites. Khan KM, et al. **J Bone Miner Res** 1996 Oct;11(10):1566–74

The BsmI vitamin D receptor restriction fragment length polymorphism (bb) influences the effect of calcium intake on bone mineral density. Kiel DP, et al.

J Bone Miner Res 1997 Jul;12(7):1049–57

Which bone density measurement? [editorial] Kleerekoper M, et al. **J Bone Miner Res** 1997 May;12(5):712–4

Dual–energy X–ray absorptiometry studies of bone mineral status in newborn infants. Koo WW, et al. **J Bone Miner Res** 1996 Jul;11(7):997–102

Evaluation of periprosthetic bone using dual–energy x–ray absorptiometry: precision of the method and effect of operation on bone mineral density. Kröger H, et al. **J Bone Miner Res** 1996 Oct;11(10):1526–30

Periprosthetic bone loss and regional bone turnover in uncemented total hip arthroplasty: a prospective study using high resolution single photon emission tomography and dual–energy X–ray absorptiometry. Kröger H, et al. **J Bone Miner Res** 1997 Mar;12(3):487–92

A preliminary evaluation of the lunar expert–XL for bone densitometry and vertebral morphometry. Lang T, et al. **J Bone Miner Res** 1997 Jan;12(1):136–43

Normal ranges for vertebral height ratios and prevalence of vertebral fracture in Hong Kong Chinese: a comparison with American Caucasians. Lau EM, et al. **J Bone Miner Res** 1996 Sep;11(9):1364–8

Correlation of trabecular bone structure with age, bone mineral density, and osteoporotic status: in vivo studies in the distal radius using high resolution magnetic resonance imaging. Majumdar S, et al. **J Bone Miner Res** 1997 Jan;12(1):111–8

Relationship of bone turnover to bone density and fractures. Melton LJ 3rd, et al. **J Bone Miner Res** 1997 Jul; 12(7):1083–91

In vivo reproducibility of three–dimensional structural properties of noninvasive bone biopsies using 3D–pQCT. Müller R, et al. **J Bone Miner Res** 1996 Nov;11(11):1745–50

Sources of variability in bone mineral density measurements: implications for study design and analysis of bone loss. Nguyen TV, et al. **J Bone Miner Res** 1997 Jan;12(1):124–35

Bone mineral mass consolidation in young British adults. Parsons TJ, et al. **J Bone Miner Res** 1996 Feb;11(2):264–74

Bone density in Type 1 Gaucher disease. Pastores GM, et al. **J Bone Miner Res** 1996 Nov;11(11):1801–7

Correcting calcium nutritional deficiency prevents spine fractures in elderly women. Recker RR, et al. **J Bone Miner Res** 1996 Dec;11(12):1961–6

Predictors of ankle and foot fractures in older women. The Study of Osteoporotic Fractures Research Group. Seeley DG, et al. **J Bone Miner Res** 1996 Sep;11(9):1347–55

Reduced rates of skeletal remodeling are associated with increased bone mineral density during the development of peak skeletal mass. Slemenda CW, et al. **J Bone Miner Res** 1997 Apr;12(4):676–82

Pregnancy and lactation as risk factors for subsequent bone loss and osteoporosis. Sowers M. **J Bone Miner Res** 1996 Aug;11(8):1052–60 (90 ref.)

Evidence for an interaction between calcium intake and physical activity on changes in bone mineral density. Specker BL. **J Bone Miner Res** 1996 Oct;11(10):1539–44 (47 ref.)

High–impact exercise promotes bone gain in well–trained female athletes. Taaffe DR, et al. **J Bone Miner Res** 1997 Feb;12(2):255–60

Bone mass, areal, and volumetric bone density are equally accurate, sensitive, and specific surrogates of the breaking strength of the vertebral body: an in vitro study. Tabensky AD, et al. **J Bone Miner Res** 1996 Dec;11(12):1981–8

A new trabecular region of interest for femoral dual X–ray absorptiometry: short–term precision, age–related bone loss, and fracture discrimination compared with current femoral regions of interest. Takada M, et al. **J Bone Miner Res** 1997 May;12(5):832–8

Mineral anisotropy in mineralized tissues is similar among species and mineral growth occurs independently of collagen orientation in rats: results from acoustic velocity measurements. Takano Y, et al. **J Bone Miner Res** 1996 Sep;11(9):1292–301

A new method of bone tissue measurement based upon light scattering. Takeuchi A, et al. **J Bone Miner Res** 1997 Feb; 12(2):261–6

Vitamin D receptor alleles, bone mineral density and turnover in premenopausal Japanese women [see comments] Tokita A, et al. **J Bone Miner Res** 1996 Jul; 11(7):1003–9. Comment in: J Bone Miner Res 1997 Mar;12(3):494–5.

Prediction of perimenopausal fractures by bone mineral density and other risk factors. Torgerson DJ, et al. **J Bone Miner Res** 1996 Feb;11(2):293–7

Bone mineral density and blood flow to the lower extremities: the study of osteoporotic fractures. Vogt MT, et al. **J Bone Miner Res** 1997 Feb;12(2):283–9

Determinants of radial bone density as measured by PQCT in pre– and postmenopausal women: the role of bone size. Wapniarz M, et al. **J Bone Miner Res** 1997 Feb;12(2):248–54

Doubling skeletal mass during adult life: the syndrome of diffuse osteosclerosis after intravenous drug abuse. Whyte MP, et al. **J Bone Miner Res** 1996 Apr;11(4):554–8

An unsuccessful attempt to relate ovulatory disturbances to changes in bone density [letter; comment] Petit MA, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4176–9. Comment on: J Clin Endocrinol Metab 1996 Feb;81(2):663–8.

Menopause, menstrual and reproductive history, and bone density in northern Italy. Parazzini F, et al. **J Epidemiol Community Health** 1996 Oct;50(5):519–23

Altered patterns of subchondral bone mineralization in Kienböck's disease. Giunta R, et al. **J Hand Surg [Br]** 1997 Feb;22(1):16–20

Investigation of MR decay rates in microphantom models of trabecular bone. Selby K, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):549–59

Noninvasive markers of bone metabolism in the rhesus monkey: normal effects of age and gender. Cahoon S, et al. **J Med Primatol** 1996 Oct;25(5):333–8

Evaluation of bone density in newborn infants by computed x–ray densitometry. Hayashi T, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):130–4

Sticks and stones––and depression––may break bones [news] **J Psychosoc Nurs Ment Health Serv** 1997 Jan;35(1):8–9

Effect of lactation on postmenopausal bone mineral density of the lumbar spine. Sinigaglia L, et al. **J Reprod Med** 1996 Jun;41(6):439–43

Axial and hip bone mineral density and radiographic changes of osteoarthritis of the knee: data from the Baltimore Longitudinal Study of Aging. Lethbridge–Cejku M, et al. **J Rheumatol** 1996 Nov;23(11):1943–7

Influence of vitamin D receptor genotype on bone mass changes after renal transplantation. Torres A, et al. **Kidney Int** 1996 Nov;50(5):1726–33

Possible role of cytokines on the bone mineral loss in idiopathic hypercalciuria. Weisinger JR, et al. **Kidney Int** 1996 Jan;49(1):244–50

Magnetic susceptibility measurement of insoluble solids by NMR: magnetic susceptibility of bone. Hopkins JA, et al. **Magn Reson Med** 1997 Apr;37(4):494–500

Perimenopausal bone density screening––will it help prevent osteoporosis? Garton MJ, et al. **Maturitas** 1997 Jan; 26(1):35–43

Changes in the cortical and trabecular bone compartments with different types of menopause measured by peripheral quantitative computed tomography. Hernández ER, et al. **Maturitas** 1996 Feb;23(1):23–9

Age, menopause, bone turnover markers and lumbar bone loss in healthy Japanese women. Iki M, et al. **Maturitas** 1996 Aug;25(1):59–67

Changes in musculoskeletal structure and function with prolonged bed rest. Bloomfield SA. **Med Sci Sports Exerc** 1997 Feb;29(2):197–206 (65 ref.)

Exercise and bone mineral density in mature female athletes. Dook JE, et al. **Med Sci Sports Exerc** 1997 Mar;29(3):291–6

Gymnastic training and bone density in pre–adolescent females. Dyson K, et al. **Med Sci Sports Exerc** 1997 Apr; 29(4):443–50

Bone density scans. Evidence to support widespread use not strong––yet. Meyer CR. **Minn Med** 1996 Oct;79(10):6–7

Assessment of renal osteodystrophy in dialysis patients: use of bone alkaline phosphatase, bone mineral density and parathyroid ultrasound in comparison with bone histology. Fletcher S, et al. **Nephron** 1997;75(4):412–9

Bone mineral density in patients with hypercalciuric nephrolithiasis. Zanchetta JR, et al. **Nephron** 1996; 73(4):557–60

Smoking and the human vertebral column: a review of the impact of cigarette use on vertebral bone metabolism and spinal fusion. Hadley MN, et al. **Neurosurgery** 1997 Jul; 41(1):116–24 (138 ref.)

Bone density and shape as determinants of bone strength in IGF–I and/or pamidronate–treated ovariectomized rats [published erratum appears in Osteoporos Int 1996;6(5):preceding 345] Ammann P, et al. **Osteoporos Int** 1996;6(3):219–27

A longitudinal study of supine lateral DXA of the lumbar spine: a comparison with posteroanterior spine, hip and total–body DXA. Blake GM, et al. **Osteoporos Int** 1996; 6(6):462–70

Femoral neck bone density and fracture risk. Cooper C. **Osteoporos Int** 1996;6 Suppl 3:24–6 (18 ref.)

Differences in mineral homeostasis, volumetric bone mass and femoral neck axis length in black and white South African women. Daniels ED, et al. **Osteoporos Int** 1997; 7(2):105–12

Ex vivo estimation of thoracolumbar vertebral body compressive strength: the relative contributions of bone densitometry and vertebral morphometry. Edmondston SJ, et al. **Osteoporos Int** 1997;7(2):142–8

The technical and logistical feasibility of population densitometry using DXA and directed HRT intervention: a 2–year prospective study. Purdie DW, et al. **Osteoporos Int** 1996;6 Suppl 3:31–6

Bone demineralization in cystic fibrosis: evidence of imbalance between bone formation and degradation. Baroncelli GI, et al. **Pediatr Res** 1997 Mar;41(3):397–403

Relationships between the bone pathologies, ash and mineral content of long bones in 35–day–old broiler chickens. Thorp BH, et al. **Res Vet Sci** 1997 Jan–Feb;62(1):67–73

Contribution of calcaneal ultrasonic assessment to the evaluation of postmenopausal and glucocorticoid–induced osteoporosis. Blanckaert F, et al. **Rev Rhum Engl Ed** 1997 May;64(5):305–13

Ultrasound velocity measured at the proximal phalanges: precision and age–related changes in normal females. Duboeuf F, et al. **Rev Rhum Engl Ed** 1996 Jun;63(6):427–34

Practical use of bone densitometry. Falasca GF, et al. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):26S–30S (18 ref.)

Osteoporosis in men. Haddad JG. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):81S–83S (17 ref.)

Effect of acute endurance and strength exercise on circulating calcium–regulating hormones and bone markers in young healthy males. Rong H, et al. **Scand J Med Sci Sports** 1997 Jun;7(3):152–9

An experimental study of lumbar destabilization. Restabilization and bone density. Bennett GJ, et al. **Spine** 1997 Jul 1;22(13):1448–53

Comparative calibration without a gold standard. Lu Y, et al. **Stat Med** 1997 Aug 30;16(16):1889–905

Chronological changes in bone mineral content following gastrectomy. Nihei Z, et al. **Surg Today** 1996;26(2):95–100

Bone mineral analysis in patients with biliary atresia after successful Kasai procedure. Toki A, et al. **Tohoku J Exp Med** 1997 Jan;181(1):213–6

[Comparative roentgenometry of the hand in aging] Dihlmann A, et al. **Aktuelle Radiol** 1996 Sep;6(5):249–56 (Eng. Abstr.) **(Ger)**

[Quantitative nutritional reconstruction by trace element data] Gröbmeyer A. **Anthropol Anz** 1997 Jun;55(2):179–82 (Eng. Abstr.) **(Ger)**

[Intraindividual element distribution in the distal femur] Schug H. **Anthropol Anz** 1997 Jun;55(2):167–78 (Eng. Abstr.) **(Ger)**

[A comparison of trace element and isotope analysis in archeological bones (exemplified by a medieval bone series from Weingarten, Germany)] Wiedemann FB, et al. **Anthropol Anz** 1997 Jun;55(2):147–54 (Eng. Abstr.) **(Ger)**

[Stress on the radiocarpal joint. CT studies of subchondral bone density in vivo] Giunta R, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):32–7 (Eng. Abstr.) **(Ger)**

[Fate of the calcium–dense proximal fragment in scaphoid fracture] Zimmermann G, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):20–6 (Eng. Abstr.) **(Ger)**

[Evaluating bone metabolism with [15O]H2O, [18F]fluoride and positron emission tomography (PET) in the pig] Piert M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:475–80 (Eng. Abstr.) **(Ger)**

[Growth hormone: effect on bone metabolism and bone density] Kann P, et al. **Med Klin** 1996 Feb 15;91 Suppl 1:46–9 **(Ger)**

[Diagnosis of osteoporosis with ultrasound densitometry of the calcaneus] Wendt B, et al. **Radiologe** 1996 Jan; 36(1):58–63 (Eng. Abstr.) **(Ger)**

[Densitometric studies of the tensile strength of the proximal femur] Menke W, et al. **Sportverletz Sportschaden** 1996 Jun; 10(2):38–42 (Eng. Abstr.) **(Ger)**

[Determination of bone quality before spinal instrumentation––value of different in vivo methods] Schwitalle M, et al. **Z Orthop Ihre Grenzgeb** 1997 May–Jun; 135(3):217–21 (Eng. Abstr.) **(Ger)**

[Bone mineral density by ultrasonic measurement in pre– and postmenopausal women––relationship with sex hormones and nutritional states] Shono N, et al. **Nippon Eiseigaku Zasshi** 1997 Jan;51(4):755–62 (Eng. Abstr.) **(Jpn)**

[Interrelations of the calcium concentration in breast milk with maternal intake of cow's milk and milk products, bone resorption and bone mineral density during lactation] Yoneyama K, et al. **Nippon Eiseigaku Zasshi** 1997 Jan; 51(4):770–9 (Eng. Abstr.) **(Jpn)**

[Highly reproducible technique for the estimation of trabecular bone density: three slice method on peripheral quantitative CT] Mizukawa K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May; 57(6):347–9 (Eng. Abstr.) **(Jpn)**

[Use of densitometric measurements for evaluation of bone regeneration in lengthening of the long bone shaft] Hussein A, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):601–6 (Eng. Abstr.) **(Pol)**

[Nutrition and bone mineral density in premenopausal women] Ferreira N, et al. **Acta Med Port** 1995 Nov; 8(11):599–605 (Eng. Abstr.) **(Por)**

[Use of Masson's trichrome method for staining decalcified bone tissue] Asonova SN, et al. **Arkh Patol** 1996 Jan–Feb; 58(1):66–7 (Eng. Abstr.) **(Rus)**

[Study of mineral saturation of lumbar vertebral bones in th course of systemic exposure to +Gz accelerations] Kaliakin VV, et al. **Aviakosm Ekolog Med** 1996;30(5):9–13 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

[Evaluation of bone density in rats after hydrocortisone and microwave radiation] Olchowik G. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):163–7 (Eng. Abstr.) **(Pol)**

BONE–DERIVED TRANSFORMING GROWTH FACTOR

see **TRANSFORMING GROWTH FACTOR BETA**

BONE DEVELOPMENT

The effect of removal of the medical collateral ligament on subchondral bone and cartilage in the growing rat knee joint. Messner K, et al. **Acta Anat (Basel)** 1996;156(1):34–40

Distribution patterns of neoglycoprotein–binding sites (endogenous lectins) and lectin–reactive glycoconjugates during cartilage and bone formation in human finger. Zschäbitz A, et al. **Acta Anat (Basel)** 1995;154(4):272–82

Effect of ovariectomy upon weaning on the morphometric

parameters of femorae and tibiae of growing rats. Hietala EL, et al. **Acta Physiol Scand** 1997 Feb;159(2):175–8

Age–related bone loss and senile osteoporosis: evidence for both secondary hyperparathyroidism and skeletal growth factor deficiency in the elderly. Boonen S, et al. **Aging (Milano)** 1995 Dec;7(6):414–22 (90 ref.)

Normal gadolinium–enhanced MR images of the developing appendicular skeleton: Part 2. Epiphyseal and metaphyseal marrow. Dwek JR, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):191–6

Appropriate use of significant figures [letter; comment] Mitchell CS. **AJR Am J Roentgenol** 1997 Aug;169(2):597–8 . Comment on: AJR Am J Roentgenol 1996 Dec;167(6):1395–8.

Does poor zinc nutriture retard skeletal growth and mineralization in adolescents? [editorial; comment] King JC. **Am J Clin Nutr** 1996 Sep;64(3):375–6. Comment on: Am J Clin Nutr 1996 Sep;64(3):274–82.

Bone metabolism in treated celiac children [letter; comment] Szathmári M, et al. **Am J Gastroenterol** 1997 May; 92(5):910–1. Comment on: Am J Gastroenterol 1996 Jun;91(6):1226–31.

Cranial growth in Saimiri sciureus (Cebidae) and its alteration by nutritional factors: a longitudinal study. Dressino V, et al. **Am J Phys Anthropol** 1997 Apr;102(4):545–54

Skeletal growth of children from the Iron Age site at K2 (South Africa). Steyn M, et al. **Am J Phys Anthropol** 1996 Jul;100(3):389–96

Sutural effects of fronto–occipital cranial modification. White CD. **Am J Phys Anthropol** 1996 Jul;100(3):397–410

Flipper development in the Mediterranean striped dolphin (Stenella coeruleoalba). Calzada N, et al. **Anat Rec** 1996 Aug;245(4):708–14

Trabecular and endocortical bone surfaces in the rat: modeling or remodeling? Erben RG. **Anat Rec** 1996 Sep; 246(1):39–46

Evidence of structural and material adaptation to specific strain features in cortical bone. Skedros JG, et al. **Anat Rec** 1996 Sep;246(1):47–63

Standard RUS skeletal maturation of Tokyo children. Ashizawa K, et al. **Ann Hum Biol** 1996 Nov–Dec; 23(6):457–69

A novel G protein–coupled receptor with homology to neuropeptide and chemoattractant receptors expressed during bone development. Methner A, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):336–42

Prenatal growth and ossification patterns of the human femur: a preliminary densitometric study. Di Stefano M, et al. **Boll Soc Ital Biol Sper** 1995 Sep–Oct;71(9–10):281–4

Longitudinal analysis of radiographic trabecular pattern by image processing. Korstjens CM, et al. **Bone** 1995 Dec; 17(6):527–32

Dissociation of bone formation markers in bone metastasis of prostate cancer. Koizumi M, et al. **Br J Cancer** 1997; 75(11):1601–4

Histomorphometric analysis of heterotopic bone formed by stromal–osteogenic subpopulations. Benayahu D, et al. **Calcif Tissue Int** 1996 Oct;59(4):254–8

Bone modeling indexes at onset and during the first year of follow–Up in insulin–dependent diabetic children. Bonfanti R, et al. **Calcif Tissue Int** 1997 May;60(5):397–400

Structural changes in the large proteoglycan, aggrecan, in different zones of the ovine growth plate. Byers S, et al. **Calcif Tissue Int** 1997 Jan;60(1):71–8

Calcitriol and bone mass accumulation in females during puberty. Ilich JZ, et al. **Calcif Tissue Int** 1997 Aug; 61(2):104–9

Ovariectomy–induced bone loss can be affected by different intensities of treadmill running exercise in rats. Peng ZQ, et al. **Calcif Tissue Int** 1997 May;60(5):441–8

Defining the skeletal elements. Vortkamp A. **Curr Biol** 1997 Feb 1;7(2):R104–7 (23 ref.)

Bone growth: coordinating chondrocyte differentiation. Wallis GA. **Curr Biol** 1996 Dec 1;6(12):1577–80 (10 ref.)

The T3R alpha gene encoding a thyroid hormone receptor is essential for post–natal development and thyroid hormone production. Fraichard A, et al. **EMBO J** 1997 Jul 16;16(14):4412–20

Follistatin and activin in bone: expression and localization during endochondral bone development. Funaba M, et al. **Endocrinology** 1996 Oct;137(10):4250–9

Vitamin D receptor genotypes are related to bone size and bone density in men. Need AG, et al. **Eur J Clin Invest** 1996 Sep;26(9):793–6

Development of the frontal sinus in relation to somatic and skeletal maturity. A cephalometric roentgenographic study at puberty. Ruf S, et al. **Eur J Orthod** 1996 Oct;18(5):491–7

Fibroblasts expressing Sonic hedgehog induce osteoblast differentiation and ectopic bone formation. Kinto N, et al. **FEBS Lett** 1997 Mar 10;404(2–3):319–23

Colitis causes bone loss in rats through suppression of bone formation [see comments] Lin CL, et al. **Gastroenterology** 1996 Nov;111(5):1263–71. Comment in: Gastroenterology 1997 Apr;112(4):1428. Comment in: Gastroenterology 1997 Jun;112(6):2161.

Divide, accumulate, differentiate: cell condensation in skeletal development revisited. Hall BK, et al. **Int J Dev Biol** 1995 Dec;39(6):881–93 (145 ref.)

The Saskatchewan Pediatric Bone Mineral Accrual Study: bone mineral acquisition during the growing years. Bailey DA. **Int J Sports Med** 1997 Jul;18 Suppl 3:S191–4

Peak bone mass development of females: can young adult women improve their peak bone mass? Anderson JJ, et al. **J Am Coll Nutr** 1996 Dec;15(6):570–4 (18 ref.)

Nutrition, genetics and skeletal development. Matkovic V. **J Am Coll Nutr** 1996 Dec;15(6):556–69 (97 ref.)

Ectopic bone induction in porous apatite–wollastonite–containing glass ceramic combined with bone morphogenetic protein. Ijiri S, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):421–32

Bone growth and remodelling after fracture. Murray DW, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):42–50

Lack of relationship between vitamin D receptor genotype and forearm bone gain in healthy children, adolescents, and young adults. Gunnes M, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):851–5

Skeletal development and bone turnover revisited [editorial] Matkovic V. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2013–6 (43 ref.)

Spinal and femoral bone mass accumulation during normal adolescence: comparison with female patients with sexual precocity and with hypogonadism. Takahashi Y, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1248–53

Endochondral and intramembranous fetal bone development: osteoblastic cell proliferation, and expression of alkaline phosphatase, m–twist, and histone H4. Alborzi A, et al. **J Craniofac Genet Dev Biol** 1996 Apr–Jun;16(2):94–106

Mandibular movements during elevation and fusion of palatal shelves evaluated from the course of Meckel's cartilage. Kjaer I. **J Craniofac Genet Dev Biol** 1997 Apr–Jun; 17(2):80–5

Osteology and skeletal development of Discoglossus sardus (Anura:Discoglossidae). Analía Púgener L, et al. **J Morphol** 1997 Sep;233(3):267–86

Bone growth after osteotomy and internal fixation in young rabbits. Albanese SA, et al. **J Orthop Res** 1996 Nov; 14(6):921–6

An early rise in urine N–telopeptide predicts the growth response of normal prepubertal short children to growth hormone therapy. Phillip M, et al. **J Pediatr Endocrinol Metab** 1996 Sep–Oct;9(5):519–21

Radiographical evaluation of bone maturation in Japanese black beef cattle. Oishi A, et al. **J Vet Med Sci** 1996 Jun; 58(6):529–35

Increased cartilage and bone formation in spontaneously hypercholesterolemic rats. Funaba M, et al. **Life Sci** 1997; 61(6):645–52

In vivo assessment of trabecular bone structure at the distal radius from high–resolution magnetic resonance images. Gordon CL, et al. **Med Phys** 1997 Apr;24(4):585–93

The effect of maturation on the ability to stimulate orbital growth using tissue expanders in the anophthalmic cat orbit. Heinz GW, et al. **Ophthal Plast Reconstr Surg** 1997 Jun;13(2):115–28

Normal variant or orthopaedic abnormality? Paterson JM. **Practitioner** 1997 Jun;241(1575):342–4 (0 ref.)

Measurement of bone specific alkaline phosphatase in the horse: a comparison of two techniques. Jackson B, et al. **Res Vet Sci** 1996 Sep;61(2):160–4

Abnormalities in skeletal growth in children with juvenile rheumatoid arthritis. Cassidy JT, et al. **Rheum Dis Clin North Am** 1997 Aug;23(3):499–522 (145 ref.)

Intestinal secretory defects and dwarfism in mice lacking cGMP–dependent protein kinase II. Pfeifer A, et al. **Science** 1996 Dec 20;274(5295):2082–6

The crankshaft phenomenon after posterior Harrington fusion in skeletally immature patients with thoracic or thoracolumbar idiopathic scoliosis followed to maturity. Lee CS, et al. **Spine** 1997 Jan 1;22(1):58–67

Specific markers of bone formation in total protein S deficient patients [letter] [published erratum appears in Thromb Res 1996 Dec 15;84(6):482] Casey MC, et al. **Thromb Res** 1996 Nov 1;84(3):223–4

Possible use of fetal bone as two–step bone grafting material. Iwata M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):991–4

Assessing skeletal development [comment] Ashhurst DE. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):373 (4 ref.). Comment on: Ultrasound Obstet Gynecol 1997 Jun;9(6):392–7.

Ultrasonographic and radiologic visualization of the developing embryonic skeleton [see comments] van Zalen–Sprock RM, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):392–7. Comment in: Ultrasound Obstet Gynecol 1997 Jun;9(6):373.

[Morphology of the basi–exoccipital synchondrosis during human growth] Dellinger JC, et al. **Arch Anat Histol Embryol** 1993–94;75:31–46 (Eng. Abstr.) **(Fre)**

[Bone mass formation in childhood and risk of osteoporosis] Tatò L, et al. **Pediatr Med Chir** 1996 Jul–Aug;18(4):373–5 (Eng. Abstr.) **(Ita)**

DRUG EFFECTS

BMP–2 can inhibit bone healing. Bone–chamber study in rabbits. Jeppsson C, et al. **Acta Orthop Scand** 1996 Dec; 67(6):589–92

The effects of pamidronate on mechanical properties, growth and structural changes in rat bones. Kaczmarczyk–Sedlak I. **Acta Pol Pharm** 1995 Nov–Dec;52(6):509–13

Alcohol consumption by young actively growing rats: a study of cortical bone histomorphometry and mechanical properties. Hogan HA, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):809–16

Alcohol consumption by young actively growing rats: a histomorphometric study of cancellous bone. Sampson HW, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):352–9

Alcohol consumption inhibits bone growth and development in young actively growing rats. Sampson HW, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1375–84

Vitamin D, calcium, and bone status in children with developmental delay in relation to anticonvulsant use and ambulatory status. Baer MT, et al. **Am J Clin Nutr** 1997 Apr;65(4):1042–51

Insulin–like growth factor I promotes growth selectively in fetal sheep in late gestation. Lok F, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1148–55

Cortical bone growth and maturational changes in dwarf rats induced by recombinant human growth hormone. Martinez DA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E51–9

Effects of caffeine on bone cells and bone development in fast–growing rats. Wink CS, et al. **Anat Rec** 1996 Sep; 246(1):30–8

Effects of all–trans–retinoyl–beta–D–glucuronide and all–trans–retinoic acid on chondrogenesis and retinoid metabolism in mouse limb bud mesenchymal cells in vitro. Sass JO, et al. **Arch Toxicol** 1997;71(3):142–50

The divalent strontium salt S12911 enhances bone cell replication and bone formation in vitro. Canalis E, et al. **Bone** 1996 Jun;18(6):517–23

Effects of dihydrotestosterone alone and combined with estrogen on bone mineral density, bone growth, and formation rates in ovariectomized rats. Coxam V, et al. **Bone** 1996 Aug;19(2):107–14

Plasma levels of parathyroid hormone that induce anabolic effects in bone of ovariectomized rats can be achieved by stimulation of endogenous hormone secretion. Fox J, et al. **Bone** 1997 Aug;21(2):163–9

Truncation of the amino terminus of PTH alters its anabolic activity on bone in vivo. Hilliker S, et al. **Bone** 1996 Nov; 19(5):469–77

The androgenic anabolic steroid nandrolone decanoate prevents osteopenia and inhibits bone turnover in ovariectomized cynomolgus monkeys. Jerome CP, et al. **Bone** 1997 Apr;20(4):355–64

Long–term effects of clodronate on growing rat bone. Lepola VT, et al. **Bone** 1996 Feb;18(2):191–6

Skeletal response to corticosteroid deficiency and excess in growing male rats. Li M, et al. **Bone** 1996 Aug;19(2):81–8

Saccharated ferric oxide (SFO)–induced osteomalacia: in vitro inhibition by SFO of bone formation and 1,25–dihydroxy–vitamin D production in renal tubules. Sato K, et al. **Bone** 1997 Jul;21(1):57–64

Effect of lead on bone development and bone mass: a morphometric, densitometric, and histomorphometric study in growing rats. Escribano A, et al. **Calcif Tissue Int** 1997 Feb;60(2):200–3

The effect of tamoxifen on bone metabolism and skeletal growth is different in ovariectomized and intact rats. Li X, et al. **Calcif Tissue Int** 1996 Oct;59(4):271–6

Calcitonin provides complete protection against cancellous bone loss in the femoral neck of ovariectomized rats. Shen Y, et al. **Calcif Tissue Int** 1997 May;60(5):457–61

Dietary xylitol retards the ovariectomy–induced increase of bone turnover in rats. Svanberg M, et al. **Calcif Tissue Int** 1997 May;60(5):462–6

Leukemia inhibitory factor produces hypercalcemia in rats without altering bone histomorphometry of the tibia. Turner RT, et al. **Calcif Tissue Int** 1996 Oct;59(4):301–4

Short–term effects of high dose estrogen on tibiae of growing male rats. Wakley GK, et al. **Calcif Tissue Int** 1997 Jan; 60(1):37–42

Stimulation of the growth of femoral trabecular bone in ovariectomized rats by the novel parathyroid hormone fragment, hPTH–(1–31)NH2 (Ostabolin). Whitfield JF, et al. **Calcif Tissue Int** 1996 Feb;58(2):81–7

Effects of acute and long–term administration of prolactin on bone 45Ca uptake, calcium deposit, and calcium resorption in weaned, young, and mature rats. Krishnamra N, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1157–65

Lipids closely associated with bone morphogenetic protein (BMP)—and induced heterotopic bone formation. With preliminary observations of deficiencies in lipid and osteoinduction in lathyrism in rats. Urist MR, et al. **Connect Tissue Res** 1997;36(1):9–20

Parathyroid hormone–related peptide delays terminal differentiation of chondrocytes during endochondral bone development. Lee K, et al. **Endocrinology** 1996 Nov; 137(11):5109–18

Aromatase inhibition impairs skeletal modeling and decreases bone mineral density in growing male rats. Vanderschueren D, et al. **Endocrinology** 1997 Jun;138(6):2301–7

Formation of lamellar bone on the surface of woven bone is not prevented by BAPN. Moskalewski S, et al. **Folia Histochem Cytobiol** 1996;34(2):79–83

Control of skeletogenesis and programmed cell death in the developing avian limb bud by growth factors. Gañan Y, et al. **Int J Dev Biol** 1996;Suppl 1:189S

The effect of alternate–day low dose prednisolone on bone age in children with steroid dependent nephrotic syndrome. Bircan Z, et al. **Int Urol Nephrol** 1997;29(3):357–61

Resorption of, and bone formation from, new beta–tricalcium phosphate–monocalcium phosphate cements: an in vivo study. Ohura K, et al. **J Biomed Mater Res** 1996 Feb; 30(2):193–200

BONE DEVELOPMENT

Ectopic induction of cartilage and bone by bovine bone morphogenetic protein using a biodegradable polymeric reservoir. Yamazaki Y, et al. **J Biomed Mater Res** 1996 Jan;30(1):1–4

Importance of delivery systems for growth-stimulatory factors in combination with osteopromotive membranes. An experimental study using rhBMP-2 in rat mandibular defects. Zellin G, et al. **J Biomed Mater Res** 1997 May; 35(2):181–90

Androgen supplementation in eugonadal men with osteoporosis: effects of six months' treatment on markers of bone formation and resorption. Anderson FH, et al. **J Bone Miner Res** 1997 Mar;12(3):472–8

Evaluation of signal transduction mechanisms for the mitogenic effects of prostaglandin E2 in normal human bone cells in vitro. Baylink TM, et al. **J Bone Miner Res** 1996 Oct;11(10):1413–8

Lack of an effect of sodium zeolite A on rat tibia histomorphometry. Firling CE, et al. **J Bone Miner Res** 1996 Feb;11(2):254–63

An acute intake of phosphate increases parathyroid hormone secretion and inhibits bone formation in young women. Kärkkäinen M, et al. **J Bone Miner Res** 1996 Dec; 11(12):1905–12

The effect of systemically administered PDGF-BB on the rodent skeleton. Mitlak BH, et al. **J Bone Miner Res** 1996 Feb;11(2):238–47

Maintaining bone mass by bisphosphonate incadronate disodium (YM175) sequential treatment after discontinuation of intermittent human parathyroid hormone (1–34) administration in ovariectomized rats. Takano Y, et al. **J Bone Miner Res** 1996 Feb;11(2):169–77

Calcium-enriched foods and bone mass growth in prepubertal girls: a randomized, double-blind, placebo-controlled trial. Bonjour JP, et al. **J Clin Invest** 1997 Mar 15;99(6):1287–94

Suppressed bone induction by follistatin in spontaneously hypercholesterolemic rat bone. Funaba M, et al. **Life Sci** 1997;61(6):653–8

Long-term effects of bisphosphonates on the growing skeleton. Studies of young patients with severe osteoporosis. Brumsen C, et al. **Medicine (Baltimore)** 1997 Jul;76(4):266–83 (83 ref.)

The effect of calcium supplementation and Tanner stage on bone density, content and area in teenage women. Lloyd T, et al. **Osteoporos Int** 1996;6(4):276–83

The effect of alternate-day low-dose prednisolone on bone age in children with steroid-dependent nephrotic syndrome [letter; comment] Bircan Z, et al. **Pediatr Nephrol** 1996 Jun;10(3):397–8. Comment on: Pediatr Nephrol 1994 Aug;8(4):480–2.

The effects of various fluoride concentrations on new bone formation in intramuscular implants of bone matrix in mice. Broulík PD. **Physiol Res** 1996;45(6):449–51

GENETICS

The functional matrix hypothesis revisited. 3. The genomic thesis. Moss ML. **Am J Orthod Dentofacial Orthop** 1997 Sep;112(3):338–42 (0 ref.)

Retarded skeletal development in transgenic mice with a type II collagen mutation. Savontaus M, et al. **Am J Pathol** 1996 Dec;149(6):2169–82

How and why humans grow thin skulls: experimental evidence for systemic cortical robusticity. Lieberman DE. **Am J Phys Anthropol** 1996 Oct;101(2):217–36

Distribution of platelet-derived growth factor (PDGF) A chain mRNA, protein, and PDGF-alpha receptor in rapidly forming human bone. Horner A, et al. **Bone** 1996 Oct;19(4):353–62

Mechanical and geometric changes in the growing femora of BMP-5 deficient mice. Mikić B, et al. **Bone** 1996 Jun; 18(6):601–7

Human osteosarcoma (OST) induces mouse reactive bone formation in xenograft system. Tokunaga K, et al. **Bone** 1996 Nov;19(5):447–54

Cartilage calcification and limb bud growth in the developing tich mouse embryo. Ahmed Z, et al. **Calcif Tissue Int** 1997 Jun;60(6):561–6

Polymorphisms of the vitamin D receptor, infant growth, and adult bone mass. Keen RW, et al. **Calcif Tissue Int** 1997 Mar;60(3):233–5

Targeted disruption of Cbfa1 results in a complete lack of bone formation owing to maturational arrest of osteoblasts [see comments] Komori T, et al. **Cell** 1997 May 30; 89(5):755–64. Comment in: Cell 1997 May 30;89(5):677–80.

Cbfa1, a candidate gene for cleidocranial dysplasia syndrome, is essential for osteoblast differentiation and bone development [see comments] Otto F, et al. **Cell** 1997 May 30;89(5):765–71. Comment in: Cell 1997 May 30;89(5):677–80.

Skeletal development in transgenic mice expressing a mutation at Gly574Ser of type II collagen. Maddox BK, et al. **Dev Dyn** 1997 Feb;208(2):170–7

Heritable diseases of the skeleton. Part II: Molecular insights into skeletal development-matrix components and their homeostasis. Mundlos S, et al. **FASEB J** 1997 Mar; 11(4):227–33 (73 ref.)

Heritable diseases of the skeleton. Part I: Molecular insights into skeletal development-transcription factors and signaling pathways. Mundlos S, et al. **FASEB J** 1997 Feb; 11(2):125–32 (60 ref.)

DNA fragmentation during bone formation in neonatal rodents assessed by transferase-mediated end labeling. Bronckers AL, et al. **J Bone Miner Res** 1996 Sep; 11(9):1281–91

Guanine nucleotide binding-protein coupled signaling pathway regulation of osteoblast-mediated bone formation [editorial] Quarles LD, et al. **J Bone Miner Res** 1996 Oct; 11(10):1375–83 (118 ref.)

Effects of inbreeding on skeletal development of Rattus villosissimus. Lacy RC, et al. **J Hered** 1996 Jul-Aug; 87(4):277–87

Genetic analysis of fluctuating asymmetry for skeletal characters in mice. Leamy L. **J Hered** 1997 Mar-Apr; 88(2):85–92

The role of sonic hedgehog in vertebrate development. Weed M, et al. **Matrix Biol** 1997 May;16(2):53–8 (53 ref.)

The ERR-1 orphan receptor is a transcriptional activator expressed during bone development. Bonnelye E, et al. **Mol Endocrinol** 1997 Jun;11(7):905–16

Targeted overexpression of parathyroid hormone-related peptide in chondrocytes causes chondrodysplasia and delayed endochondral bone formation. Weir EC, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10240–5

[Fibroblast growth factor receptors and hereditary abnormalities of bone growth] Bonaventure J, et al. **Arch Pediatr** 1997;4(2 Suppl 2):112s–117s **(Fre)**

PHYSIOLOGY

Skeletal maturation of wrist and hand ossification centers in normal Spanish boys and girls: a study using the Greulich-Pyle method. Jiménez-Castellanos J, et al. **Acta Anat (Basel)** 1996;155(3):206–11

Physical activity and dietary constituents as predictors of forearm cortical and trabecular bone gain in healthy children and adolescents: a prospective study. Gunnes M, et al. **Acta Paediatr** 1996 Jan;85(1):19–25

The functional matrix hypothesis revisited. 2. The role of an osseous connected cellular network. Moss ML. **Am J Orthod Dentofacial Orthop** 1997 Aug;112(2):221–6 (137 ref.)

The functional matrix hypothesis revisited. 1. The role of mechanotransduction. Moss ML. **Am J Orthod Dentofacial Orthop** 1997 Jul;112(1):8–11 (0 ref.)

Monocyte recruitment and expression of monocyte chemoattractant protein-1 are developmentally regulated in remodeling bone in the mouse. Volejnikova S, et al. **Am J Pathol** 1997 May;150(5):1711–21

Appearance of ossification centers of the lower arm, wrist, lower leg, and ankle in immature orangutans and chimpanzees with an assessment of the relationship of ossification to dental development. Winkler LA. **Am J Phys Anthropol** 1996 Jan;99(1):191–203

Indirect way to estimate peak joint loads in life and in skeletal remains (insights from a new paradigm). Frost HM. **Anat Rec** 1997 Jul;248(3):475–83

Skeletal maturity of the hand and wrist of healthy Argentinian children aged 4–12 years, assessed by the TWII method. Lejarraga H, et al. **Ann Hum Biol** 1997 May-Jun; 24(3):257–61

Biochemical markers of skeletal growth in children. Branca F. **Bibl Nutr Dieta** 1996;(53):90–102 (39 ref.)

Bone formation inside the material interstices of e-PTFE membranes: a light microscopical and histochemical study in man. Piattelli A, et al. **Biomaterials** 1996 Sep; 17(17):1725–31

Effect of pulsed electromagnetic fields on bone formation and bone loss during limb lengthening. Eyres KS, et al. **Bone** 1996 Jun;18(6):505–9

Why do marathon runners have less bone than weight lifters? A vital-biomechanical view and explanation [see comments] Frost HM. **Bone** 1997 Mar;20(3):183–9. Comment in: Bone 1997 Mar;20(3):179–81.

Topographically induced bone formation in vitro: implications for bone implants and bone grafts. Gray C, et al. **Bone** 1996 Feb;18(2):115–23

Bone morphogenetic proteins and C-FOS: early signals in endochondral bone formation. Kaplan FS, et al. **Bone** 1996 Jul;19(1 Suppl):13S–21S (69 ref.)

Growth factors for bone growth and repair: IGF, TGF beta and BMP. Linkhart TA, et al. **Bone** 1996 Jul;19(1 Suppl):1S–12S (96 ref.)

Comparison of the distribution of 3H-alendronate and 3H-etidronate in rat and mouse bones. Masarachia P, et al. **Bone** 1996 Sep;19(3):281–90

Strain magnitude related changes in whole bone architecture in growing rats. Mosley JR, et al. **Bone** 1997 Mar; 20(3):191–8

Assessment of an ectopic bone formation system with implantation of pelleted rat primary growth cartilage cells. Okihana H, et al. **Bone** 1997 Apr;20(4):341–5

High bone turnover is associated with low bone mass in both pre- and postmenopausal women. Ravn P, et al. **Bone** 1996 Sep;19(3):291–8

Bone marrow capacity for bone cells and trabecular bone turnover in immobilized tibia after sciatic neurectomy in mice. Sakai A, et al. **Bone** 1996 May;18(5):479–86

Short-term immobilization-induced cancellous bone loss is limited to regions undergoing high turnover and/or modeling in mature rats. Shen V, et al. **Bone** 1997 Jul; 21(1):71–8

Mechanical loading and bone: what sort of exercise is beneficial to the skeleton?[comment] Skerry TM. **Bone** 1997 Mar;20(3):179–81 (21 ref.). Comment on: Bone 1997 Mar;20(3):183–9.

Adaptation to differential loading: comparison of growth-related changes in cross-sectional properties of the human femur and humerus. Sumner DR, et al. **Bone** 1996 Aug;19(2):121–6

Ultrastructural localization of alpha-parvalbumin in the epiphyseal plate cartilage and bone of growing rats. Toury R, et al. **Bone** 1996 Sep;19(3):245–53

Influence of electromagnetic fields on bone mass and growth in developing rats: a morphometric, densitometric, and histomorphometric study. González-Riola J, et al. **Calcif Tissue Int** 1997 Jun;60(6):533–7

What is the difference of bone growth in SHR and SD rats? Inoue T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S242–3

The atherosclerosis-calcification link? Watson KE, et al. **Curr Opin Lipidol** 1996 Apr;7(2):101–4 (34 ref.)

Parathyroid hormone-related peptide and the parathyroid hormone/parathyroid hormone-related peptide receptor in skeletal development. Karaplis AC, et al. **Curr Opin Nephrol Hypertens** 1997 Jul;6(4):308–13 (52 ref.)

Alternative transcript of the chick alpha 2(I) collagen gene is transiently expressed during endochondral bone formation and during development of the central nervous system. Nah HD, et al. **Dev Dyn** 1996 Jun;206(2):146–58

Mice lacking tartrate-resistant acid phosphatase (Acp 5) have disrupted endochondral ossification and mild osteopetrosis. Hayman AR, et al. **Development** 1996 Oct;122(10):3151–62

Endochondral bone growth during early pregnancy compared with pseudopregnancy in rats. Bowman BM, et al. **Endocrine** 1997 Apr;6(2):173–7

The effects of aging on the bone inductive activity of recombinant human bone morphogenetic protein-2. Fleet JC, et al. **Endocrinology** 1996 Nov;137(11):4605–10

Parathyroid hormone increases bone formation and improves mineral balance in vitamin D-deficient female rats. Toromanoff A, et al. **Endocrinology** 1997 Jun; 138(6):2449–57

Complement proteins are present in developing endochondral bone and may mediate cartilage cell death and vascularization. Andrades JA, et al. **Exp Cell Res** 1996 Sep 15;227(2):208–13

Effect of diets varying in nitrogen or phosphorus content on indicators of bone growth in lambs. Scott D, et al. **Exp Physiol** 1997 Jan;82(1):193–202

Sex differences in bone growth of broiler chickens. Rose N, et al. **Growth Dev Aging** 1996 Summer;60(2):49–59

Differential catch-up in body weight and bone growth after short-term starvation in rats. Hermanussen M, et al. **Growth Regul** 1996 Dec;6(4):230–7

Biochemical markers of bone turnover. Crofton PM, et al. **Horm Res** 1996;45 Suppl 1:55–8 (10 ref.)

Adult growth hormone deficiency and bone mass. Holmes SJ, et al. **Horm Res** 1996;45 Suppl 1:69–71 (16 ref.)

Insulin-like growth factor system components and the coupling of bone formation to resorption. Mohan S, et al. **Horm Res** 1996;45 Suppl 1:59–62 (15 ref.)

Bone mineral density and biochemical parameters of bone turnover in children with growth hormone deficiency. Saggese G, et al. **Horm Res** 1996;45 Suppl 1:67–8 (10 ref.)

Growth charts, growth velocity and bone development in childhood obesity. De Simone M, et al. **Int J Obes Relat Metab Disord** 1995 Dec;19(12):851–7

The structure of bone tissues and the cellular control of their deposition. Marotti G. **Ital J Anat Embryol** 1996 Oct-Dec; 101(4):25–79 (178 ref.)

Effect of rice cereal feedings on bone mineralization and calcium homeostasis in cow milk formula fed infants. Bainbridge RR, et al. **J Am Coll Nutr** 1996 Aug;15(4):383–8

The development of autonomic innervation in bone and joints of the rat. Sisask G, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1-2):27–33

Different effects of phagocytosable particles during bone formation versus remodeling. Goodman S, et al. **J Biomed Mater Res** 1996 Fall;33(3):153–8

Bone-bonding behavior of plasma-sprayed coatings of BioglassR, AW-glass ceramic, and tricalcium phosphate on titanium alloy. Kitsugi T, et al. **J Biomed Mater Res** 1996 Feb;30(2):261–9

Evaluation of particulate Bioglass in a rabbit radius ostectomy model. Wheeler DL, et al. **J Biomed Mater Res** 1997 May;35(2):249–54

Inducible cyclo-oxygenase (COX-2) mediates the induction of bone formation by mechanical loading in vivo. Forwood MR. **J Bone Miner Res** 1996 Nov;11(11):1688–93

Development of mass, density, and estimated mechanical characteristics of bones in Caucasian females. Haapasalo H, et al. **J Bone Miner Res** 1996 Nov;11(11):1751–60

Ontogeny of the 1,25-dihydroxyvitamin D3 receptor in fetal rat bone. Johnson JA, et al. **J Bone Miner Res** 1996 Jan; 11(1):56–61

New aspects of endochondral ossification in the chick: chondrocyte apoptosis, bone formation by former chondrocytes, and acid phosphatase activity in the endochondral bone matrix. Roach HI. **J Bone Miner Res** 1997 May;12(5):795–805

Expression and phorbol ester-induced down-regulation of protein kinase C isozymes in osteoblasts. Sanders JL, et al. **J Bone Miner Res** 1996 Dec;11(12):1862–72

Osteoblasts express types I and II activin receptors during early intramembranous and endochondral bone formation.

Shuto T, et al. **J Bone Miner Res** 1997 Mar;12(3):403–11

Reduced rates of skeletal remodeling are associated with increased bone mineral density during the development of peak skeletal mass. Slemenda CW, et al.
J Bone Miner Res 1997 Apr;12(4):676–82

Bone morphogenetic protein: the molecularization of skeletal system development [editorial; comment] Urist MR.
J Bone Miner Res 1997 Mar;12(3):343–6 (58 ref.). Comment on: J Bone Miner Res 1997 Mar;12(3):332–42.

Age-related changes in bone formation, osteoblastic cell proliferation, and differentiation during postnatal osteogenesis in human calvaria. de Pollak C, et al.
J Cell Biochem 1997 Jan;64(1):128–39

The effect of long-term growth hormone (GH) treatment on bone mineral density in children with GH deficiency. Role of GH in the attainment of peak bone mass. Saggese G, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3077–83

Standard bone-age of infants and children in Korea. Yeon KM. **J Korean Med Sci** 1997 Feb;12(1):9–16

A topographical analysis of the post-natal bone growth in the cochlea of the dog. Roberto M, et al.
J Laryngol Otol 1997 Jan;111(1):23–9

Ontogeny and limb bone scaling in two New World Marsupials, monodelphis domestica and Didelphis virginiana. Maunz M, et al. **J Morphol** 1997 Feb; 231(2):117–30

Description of the adult skeleton and developmental osteology of the hyperossified horned frog, Ceratophrys cornuta (Anura:Leptodactylidae). Wild ER. **J Morphol** 1997 May;232(2):169–206

Structure and function of embryonic growth plate in the absence of functioning skeletal muscle. Germiller JA, et al. **J Orthop Res** 1997 May;15(3):362–70

Relationship between bone growth rate and hypertrophic chondrocyte volume in New Zealand white rabbits of varying ages. Kuhn JL, et al. **J Orthop Res** 1996 Sep; 14(5):706–11

Characterization of regional and age-related variations in the growth of the rabbit distal femur. Lerner AL, et al.
J Orthop Res 1997 May;15(3):353–61

Correspondence between theoretical models and dual energy x-ray absorptiometry measurements of femoral cross-sectional growth during adolescence. van der Meulen MC, et al. **J Orthop Res** 1997 May;15(3):473–6

Epiphyseal distraction and centrally located bone bar: an experimental study in the rabbit. Cottalorda J, et al.
J Pediatr Orthop 1996 Sep–Oct;16(5):664–8

The repeated sampling bone chamber: a new permanent titanium implant to study bone grafts in the goat. Lamerigts N, et al. **Lab Anim Sci** 1997 Aug;47(4):401–6

Evolution during growth of the mechanical properties of the cortical bone in equine cannon-bones. Bigot G, et al.
Med Eng Phys 1996 Jan;18(1):79–87

Mice lacking the vitamin D receptor exhibit impaired bone formation, uterine hypoplasia and growth retardation after weaning. Yoshizawa T, et al. **Nat Genet** 1997 Aug; 16(4):391–6

Bone demineralization in cystic fibrosis: evidence of imbalance between bone formation and degradation. Baroncelli GI, et al. **Pediatr Res** 1997 Mar;41(3):397–403

Urinary immunoreactive deoxypyridinoline in children and adolescents: variations with age, sex and growth velocity. Rauch F, et al. **Scand J Clin Lab Invest** 1996 Dec; 56(8):715–9

Bone formation in vivo: comparison of osteogenesis by transplanted mouse and human marrow stromal fibroblasts. Krebsbach PH, et al. **Transplantation** 1997 Apr 27; 63(8):1059–69

[Cellular basis of bone tissue development] Rosselot G, et al. **Rev Med Chil** 1996 Aug;124(8 Suppl):15–20 (25 ref.) **(Spa)**

BONE DISEASES

Sarcoid arthropathy. Totemchokchyakarn K, et al.
Bull Rheum Dis 1997 May;46(3):3–5 (5 ref.)

Fibro-osseous pseudotumor of the digits: description of a case. Calista F, et al. **Chir Organi Mov** 1996 Jan–Mar; 81(1):69–72 **(Eng, Ita)**

Neurofibromatosis. Gabriel KR. **Curr Opin Pediatr** 1997 Feb; 9(1):89–93 (32 ref.)

Aggressive giant cell reparative granuloma of the metacarpal: a case report. Giza E, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):732–6

Bone Disease for the Rheumatologist: Osteoporosis, New Management Strategies, and Beyond. Symposium proceedings. Philadelphia, Pennsylvania, September 19–21, 1996. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):1S–123S

[Cell culture and orthopedic surgery. II. Medical applications. Diagnosis, biomaterials evaluation, therapy] Anselme K, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(8):724–36 (Eng. Abstr.) **(Fre)**

[Proceedings of the 11th annual orthopaedic research meeting of the Japanese Orthopaedic Association. Kagoshima, October 17–18, 1996. Abstracts]
Nippon Seikeigeka Gakkai Zasshi 1996 Aug; 70(8):S1167–658 **(Jpn)**

BLOOD

More on total and bone-specific alkaline phosphatase [letter] Withold W. **Clin Chem** 1997 Sep;43(9):1670–2

Diagnostic value of C-reactive protein and transthyretin in bone infections of the lower limb. Bourguignat A, et al. **Clin Chim Acta** 1996 Nov 15;255(1):27–38

Low serum levels of alkaline phosphatase of bone origin: a good marker of adynamic bone disease in haemodialysis patients. Couttenye MM, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1065–72

CHEMICALLY INDUCED

Reversal of fluorosis in children. Gupta SK, et al.
Acta Paediatr Jpn 1996 Oct;38(5):513–9

IBD-associated bone loss: is inflammation the explanation? [letter; comment] Fries W, et al. **Gastroenterology** 1997 Jun; 112(6):2161. Comment on: Gastroenterology 1996 Nov;111(5):1263–71.

Arthritis, hypercalcemia, and lytic bone lesions after hepatitis B vaccination. Cathebras P, et al. **J Rheumatol** 1996 Mar; 23(3):558–60

Methotrexate osteopathy, does it exist? Maenaut K, et al. **J Rheumatol** 1996 Dec;23(12):2156–9

Methotrexate osteopathy in patients with osteosarcoma. Ecklund K, et al. **Radiology** 1997 Feb;202(2):543–7

Skeletal fluorosis with delayed manifestations [letter] Bernardeau C, et al. **Rev Rhum Engl Ed** 1996 Jun; 63(6):459–60

[Fluorine and sciences] Waldbott GL. **Aliment Vie** 1969; 57(7–9):207–16 (36 ref.) **(Fre)**

[Morphogenesis of occupational fluoride osteopathy] Razumov VV, et al. **Med Tr Prom Ekol** 1997;(4):18–23 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Ulnar nerve compression--a case of giant uremic tumoral calcinosis. Cofán F, et al. **Acta Orthop Scand** 1997 Jun; 68(3):302–4

Hydatid disease of bone with adjacent joint involvement. A radiological follow-up of 12 years. Belzunegui J, et al. **Br J Rheumatol** 1997 Jan;36(1):133–5

Schnitzler's syndrome: report of a new case and a review of the literature. Puddu P, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):91–5 (32 ref.)

Massive subcutaneous and intraosseous fat necrosis associated with pancreatitis. Natural evolution of the radiographic picture. Rodriguez M, et al. **Clin Rheumatol** 1997 Mar; 16(2):199–203

The spectrum of osteoarticular and soft tissue changes in patients with human immunodeficiency virus (HIV) infection. Tehranzadeh J, et al. **Crit Rev Diagn Imaging** 1996 Sep;37(4):305–47 (43 ref.)

Invasive versus non-invasive diagnosis of renal bone disease. Fournier A, et al. **Curr Opin Nephrol Hypertens** 1997 Jul; 6(4):333–48 (70 ref.)

Erdheim-Chester disease with prominent pulmonary involvement associated with eosinophilic granuloma of mandibular bone. Kambouchner M, et al.
Histopathology 1997 Apr;30(4):353–8

Oxyphil parathyroid adenoma associated with primary hyperparathyroidism and marked post-operative hungry bone syndrome. Natsui K, et al. **Intern Med** 1996 Jul; 35(7):545–9

Primary biliary cirrhosis and bone changes. Sadeghi N, et al. **J Belge Radiol** 1996 Aug;79(4):160–1

Bone infarction versus infection in sickle cell disease in children. Dalton GP, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):540–4

The intravertebral vacuum phenomenon ("vertebral osteonecrosis"). Migration of intradiscal gas in a fractured vertebral body? Lafforgue P, et al. **Spine** 1997 Aug 15; 22(16):1885–91

DIAGNOSIS

Predictive value of fine needle aspiration cytology of bone lesions. Agarwal PK, et al. **Acta Cytol** 1997 May-Jun; 41(3):659–65

Cranial and intracranial aspergillosis of sino-nasal origin. Report of nine cases. Naim-Ur-Rahman, et al.
Acta Neurochir (Wien) 1996;138(8):944–50

Giant epidermoid involving 3 cranial bones. Rumelt S, et al. **Arch Ophthalmol** 1997 Jul;115(7):922–4

Magnetic resonance imaging of musculoskeletal lesions: comparison of three fat-saturation pulse sequences. Pui MH, et al. **Australas Radiol** 1997 May;41(2):99–102

Forewarned is forearmed, but forestalled? Weber KT.
Cardiovasc Res 1997 Mar;33(3):533–4

Invasive versus non-invasive diagnosis of renal bone disease. Fournier A, et al. **Curr Opin Nephrol Hypertens** 1997 Jul; 6(4):333–48 (70 ref.)

Adynamic bone disease: pathogenesis, diagnosis and clinical relevance. Mucsi I, et al. **Curr Opin Nephrol Hypertens** 1997 Jul;6(4):356–61 (58 ref.)

Bone alkaline phosphatase measured with a new immunoradiometric assay in patients with metabolic bone diseases. Gonnelli S, et al. **Eur J Clin Invest** 1996 May; 26(5):391–6

Diffuse skeletal cystic angiomatosis: MR and CT findings. Soler R, et al. **Eur J Radiol** 1996 May;22(2):149–51

Early diagnosis of bone biopsies--the role of sediment cytology. Valiathan M, et al. **Indian J Pathol Microbiol** 1997 Jan;40(1):17–20

Eosinophilic granuloma. Parmentier D, et al.
J Belge Radiol 1996 Dec;79(6):276

Idiopathic hypertrophic cranial pachymeningitis: clinical-radiological-pathological correlation of bone involvement. Jacobson DM, et al. **J Neuroophthalmol** 1996 Dec;16(4):264–8

Bone infarction versus infection in sickle cell disease in children. Dalton GP, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):540–4

Hemarthrosis of the knee and bone contusion. Ariyoshi M, et al. **Kurume Med J** 1997;44(2):135–9

Diagnosis and treatment of aluminium bone disease. D'Haese PC, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:74–9 (17 ref.)

The diagnosis of so-called "constitutional" bone dysmorphias (embryonal osteochondropathies). Nigro N, et al.
Panminerva Med 1995 Sep;37(3):145–7 (13 ref.)

Conditions mistaken for child abuse: Part I [see comments] Stewart GM, et al. **Pediatr Emerg Care** 1996 Apr; 12(2):116–21 (25 ref.). Comment in: Pediatr Emerg Care 1997 Jun;13(3):244–5.

Musculoskeletal magnetic resonance imaging: how we do it. Laor T, et al. **Pediatr Radiol** 1996 Oct;26(10):695–700

Musculoskeletal manifestations of AIDS. Major NM, et al.
Radiol Clin North Am 1997 Sep;35(5):1167–89 (88 ref.)

Skeletal cystic angiomatosis. Lateur L, et al.
Skeletal Radiol 1996 Jan;25(1):92–5 (11 ref.)

[Osteoarticular radiology] Roubertou H. **J Radiol** 1997 Mar; 78(3 Suppl):43–4 **(Fre)**

[Back pain in children and adolescents] Ezra E, et al.
Harefuah 1996 Jun 16;130(12):858–62 (51 ref.) **(Heb)**

[A case report of Erdheim-Chester disease] Furutani K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):681–3 (Eng. Abstr.) **(Jpn)**

[Magnetic resonance in the diagnosis of extent and osseous complications of Gaucher's disease type 1] Roca M, et al. **Rev Clin Esp** 1997 Aug;197(8):550–4 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Reversal of fluorosis in children. Gupta SK, et al.
Acta Paediatr Jpn 1996 Oct;38(5):513–9

Biphosphonates. Allgrove J. **Arch Dis Child** 1997 Jan; 76(1):73–5 (28 ref.)

Effective treatment of painful bone crises in type I gaucher's disease with high dose prednisolone. Cohen IJ, et al.
Arch Dis Child 1996 Sep;75(3):218–22

Aluminium-induced bone disease in uremic rats: effect of deferoxamine. Jablonski G, et al. **Biosci Rep** 1996 Feb; 16(1):49–63

Fibrogenesis imperfecta ossium: ineffectiveness of melphalan. Lafage-Proust M, et al. **Calcif Tissue Int** 1996 Oct; 59(4):240–4

Safety and efficacy of cefprozil as part of a parenteral-oral antibiotic regimen for the treatment of suppurative skeletal infections in children. Trujillo M, et al. **Clin Infect Dis** 1996 Oct;23(4):843

Treatment of bone in elderly subjects: calcium, vitamin D, fluor, bisphosphonates, calcitonin [letter] Rodan GA, et al. **Horm Res** 1996;45(6):300–1

Albendazole treatment and serological follow-up in hydatid disease of bone. Bonifacino R, et al. **Int Orthop** 1997; 21(2):127–32

In-vitro activity of teicoplanin and ceftriaxone in combination against pathogens involved in paediatric bone and joint infections. Lhopital S, et al.
J Antimicrob Chemother 1996 Oct;38(4):713–8

[Multiple myeloma and bone manifestations. Role of clodronate] Bauduer F, et al. **Bull Cancer** 1996 Jul; 83(7):542–7 (42 ref.) (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Comparison of total and bone-specific alkaline phosphatase in patients with nonskeletal disorder or metabolic bone diseases. Woitge HW, et al. **Clin Chem** 1996 Nov; 42(11):1796–804

EPIDEMIOLOGY

Endemic fluorosis in Guizhou Province, China [letter] Dasheng L, et al. **World Health Forum** 1996;17(2):173–4

[The morbidity characteristics of diseases of the bone and muscle systems in workers in iron-ore mines and quarries depending on the conditions and nature of the work] Karnaukh NG, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):89–93 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Increased degradation of type I collagen in acne fulminans. Oikarinen A, et al. **Acta Derm Venereol** 1996 Mar; 76(2):123–5

Cranial and intracranial aspergillosis of sino-nasal origin. Report of nine cases. Naim-Ur-Rahman, et al.
Acta Neurochir (Wien) 1996;138(8):944–50

Bone disease in long-term dialysis. Golder R, et al.
Am J Kidney Dis 1996 Dec;28(6):918–23

Primary hyperparathyroidism: a case with severe skeletal manifestations. Loh KC, et al.
Ann Acad Med Singapore 1995 Nov;24(6):874–8 (29 ref.)

Adolescents with anorexia nervosa: the impact of the disorder on bones and brains. Katzman DK, et al.
Ann N Y Acad Sci 1997 May 28;817:127–37 (76 ref.)

Orthopaedic referrals from a cardiothoracic transplant population. Johnson DS, et al. **Ann R Coll Surg Engl** 1997

Mar;79(2):134–7

Aluminium–induced bone disease in uremic rats: effect of deferoxamine. Jablonski G, et al. **Biosci Rep** 1996 Feb; 16(1):49–63

Effect of low–dose enzyme replacement therapy on bones in Gaucher disease patients with severe skeletal involvement. Elstein D, et al. **Blood Cells Mol Dis** 1996; 22(2):104–11; discussion 112–4

Acquired osteosclerosis associated with intravenous drug use and hepatitis C infection. Diamond T, et al. **Bone** 1996 Dec;19(6):679–83

Paget's disease of bone and unvaccinated dogs. Khan SA, et al. **Bone** 1996 Jul;19(1):47–50

Bone remodeling, normal and abnormal: a biological basis for the understanding of cancer–related bone disease and its treatment. Parfitt AM. **Can J Oncol** 1995 Dec;5 Suppl 1:1–10 (50 ref.)

Ectopic parathyroid adenoma with severe hungry bone syndrome: a case report. Chen CH, et al. **Chang Keng I Hsueh** 1996 Jun;19(2):196–202

Complications of distal first metatarsal osteotomies. Hanft J. **Clin Podiatr Med Surg** 1996 Jul;13(3):355–65 (21 ref.)

Adynamic bone disease: pathogenesis, diagnosis and clinical relevance. Mucsi I, et al. **Curr Opin Nephrol Hypertens** 1997 Jul;6(4):356–61 (58 ref.)

Connective tissue and joint disease in diabetes mellitus. Rosenbloom AL, et al. **Endocrinol Metab Clin North Am** 1996 Jun;25(2):473–83 (47 ref.)

Bone disease after liver transplantation [see comments] Losowsky MS, et al. **Gut** 1996 Oct;39(4):505–7 (50 ref.). Comment in: Gut 1997 May;40(5):695–6.

Bone disorders in sickle cell disease. Smith JA. **Hematol Oncol Clin North Am** 1996 Dec;10(6):1345–56 (43 ref.)

The management of bone defects in revision total knee arthroplasty. Engh GA, et al. **Instr Course Lect** 1997; 46:227–36 (26 ref.)

Total joint arthroplasty in orthotopic liver transplant recipients. Papagelopoulos PJ, et al. **J Arthroplasty** 1996 Dec;11(8):889–92

Destructive bone lesion in primary amyloidosis. Venkatachalam S, et al. **J Assoc Physicians India** 1996 May; 44(5):351–3

Post–transplantation bone disease: the role of immunosuppressive agents and the skeleton. Epstein S. **J Bone Miner Res** 1996 Jan;11(1):1–7 (73 ref.)

Increased catabolism of 25–hydroxyvitamin D in patients with partial gastrectomy and elevated 1,25–dihydroxyvitamin D levels. Implications for metabolic bone disease. Davies M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):209–12

Nutritional myodegeneration associated with dorsal scapular displacement in beef heifers. Buergelt CD, et al. **J Comp Pathol** 1996 May;114(4):445–50

The role of magnesium in the pathogenesis of bone disease in childhood cholestatic liver disease: a preliminary report. Heubi JE, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep; 25(3):301–6

Bone disease in patients receiving growth hormone. Watkins SL. **Kidney Int Suppl** 1996 Jan;53:S126–7 (17 ref.)

Renal Bone Disease, Parathyroid Hormone and Vitamin D. Proceedings of ISN satellite symposium. Seville, Spain, July 7–11, 1995. **Nephrol Dial Transplant** 1996;11 Suppl 3:1–157

Low serum levels of alkaline phosphatase of bone origin: a good marker of adynamic bone disease in haemodialysis patients. Couttenye MM, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1065–72

New aspects in the pathogenesis of dialysis–related amyloidosis: role of beta 2–microglobulin modified with advanced glycation end products in bone and joint destruction. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 2:140–3 (17 ref.)

Bone manifestations of untreated hypothyroidism in adults. Lauwers A, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):612–5 (20 ref.)

[Uretero–acetabular fistula: report of a case] Villamizar J, et al. **Prog Urol** 1996 Dec;6(6):950–4 (Eng. Abstr.) **(Fre)**

[Diffuse condensing osteopathy] Coutant G, et al. **Rev Med Interne** 1997 Jul;18(7):582–3 **(Fre)**

[Brucellosis with osteo–muscular localization. A case report of a not rare pathological condition] Maturanza M, et al. **Minerva Chir** 1997 Mar;52(3):307–8 (Eng. Abstr.) **(Ita)**

[Vesico–acetabular fistula occurring 10 years after total hip replacement] Hamano S, et al. **Hinyokika Kiyo** 1996 Oct; 42(10):743–5 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Bone mineral disorders in patients with multiple myeloma] Przedlacki J, et al. **Pol Tyg Lek** 1996 May;51(19–22):275–7 (Eng. Abstr.) **(Pol)**

[Changes in the locomotor system in gastrointestinal diseases] Zulkarneev RA. **Khirurgiia (Mosk)** 1997;(4):74–7 (83 ref.) **(Rus)**

[State of the locomotion system in blacksmiths working in hot forges] Druzhinin VN, et al. **Med Tr Prom Ekol** 1997; (1):16–9 (Eng. Abstr.) **(Rus)**

[Osteoarticular manifestations of chronic intestinal inflammatory disease] Forcada J, et al. **Gastroenterol Hepatol** 1996 Jan;19(1):21–3 **(Spa)**

GENETICS

Linkage of a gene causing high bone mass to human chromosome 11 (11q12–13) [see comments] Johnson ML, et al. **Am J Hum Genet** 1997 Jun;60(6):1326–32. Comment in: Am J Hum Genet 1997 Jun;60(6):1309–11.

Searching for gene defects that cause high bone mass [editorial; comment] Whyte MP. **Am J Hum Genet** 1997 Jun;60(6):1309–11 (20 ref.). Comment on: Am J Hum Genet 1997 Jun;60(6):1326–32.

A review of Morquio syndrome. Mikles M, et al. **Am J Orthop** 1997 Aug;26(8):533–40 (31 ref.)

Osteogenesis imperfecta and other heritable disorders of bone. Paterson CR. **Baillieres Clin Endocrinol Metab** 1997 Apr;11(1):195–213 (94 ref.)

Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLO–SL): a genealogical study of Swedish families of probable Finnish background. Nylander PO, et al. **Clin Genet** 1996 Nov;50(5):353–7

Mice as models of human developmental disorders: natural and artificial mutants. Darling S. **Curr Opin Genet Dev** 1996 Jun;6(3):289–94 (49 ref.)

Changes in body weight and organ weight of Ishibashi (IS) rats with growth. Teramoto K, et al. **Exp Anim** 1996 Oct; 45(4):317–23

Update on the genetic bases of disorders with orthopaedic manifestations. Dietz FR, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1583–98 (99 ref.)

Genetic markers of bone metabolism and bone disease. Ralston SH. **Scand J Clin Lab Invest Suppl** 1997;227:114–21 (46 ref.)

HISTORY

The contribution of Sir James Paget (1814–1894) to the study of rheumatic disease. Buchanan W. **Clin Rheumatol** 1996 Sep;15(5):461–72 (205 ref.)

American Society for Bone and Mineral Research annual meeting 1995. Fuller Albright Award Frederic C. Bartter Award William F. Neuman Award. **J Bone Miner Res** 1996 Feb;11(2):145–9

Revealing secrets of a lost city. An archaeologist examines skeletal remains from the ruins of Pompeii. Lazer E. **Med J Aust** 1996 Dec 2–16;165(11–12):620–3

METABOLISM

Improved functional endpoints for use in vitamin K assessment: important implications for bone disease [editorial; comment] Rucker RB. **Am J Clin Nutr** 1997 Mar; 65(3):883–4. Comment on: Am J Clin Nutr 1997 Mar;65(3):779–84.

Biochemical markers for bone diseases: current status and future trends. Proceedings of the 5th Bergmeyer Conference. Tutzing, DE, 1996. **Scand J Clin Lab Invest Suppl** 1997;227:1–127

Genetic markers of bone metabolism and bone disease. Ralston SH. **Scand J Clin Lab Invest Suppl** 1997;227:114–21 (46 ref.)

IFCC committee on markers for bone turnover and bone disease––project presentation. Woloszczuk W. **Scand J Clin Lab Invest Suppl** 1997;227:95–9 (11 ref.)

MICROBIOLOGY

Rhinosporidiosis. Report of a case with an unusual presentation with bony involvement. Adiga BK, et al. **Acta Cytol** 1997 May–Jun;41(3):889–91

Safety and efficacy of cefprozil as part of a parenteral–oral antibiotic regimen for the treatment of suppurative skeletal infections in children. Trujillo M, et al. **Clin Infect Dis** 1996 Oct,23(4):843

Septic bone and joint infections. Hedström SA. **Curr Opin Rheumatol** 1996 Jul;8(4):322–6 (14 ref.)

Septic bone and joint infections. Hedstrom SA. **Curr Opin Rheumatol** 1997 Jul;9(4):317–20 (11 ref.)

Subcutaneous and osteolytic rhinosporidiosis. Gokhale S, et al. **Indian J Pathol Microbiol** 1997 Jan;40(1):95–8

Cutaneous rhinosporidiosis. Mitra K, et al. **J Indian Med Assoc** 1996 Feb;94(2):84

PARASITOLOGY

Musculoskeletal involvement in cystic echinococcosis: report of eight cases and review of the literature. Merkle EM, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1531–4 (12 ref.)

Bone and soft tissue manifestations of alveolar echinococcosis. Merkle EM, et al. **Skeletal Radiol** 1997 May;26(5):289–92

PATHOLOGY

Osseous manifestations of SAPHO (synovitis, acne, pustulosis, hyperostosis, osteitis) syndrome. Reith JD, et al. **Am J Surg Pathol** 1996 Nov;20(11):1368–77

Paleopathological evidence of the cranial remains from the Sima de los Huesos Middle Pleistocene site (Sierra de Atapuerca, Spain). Description and preliminary inferences. Pérez PJ, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):409–21

Hypereosinophilic syndrome or chronic eosinophilic leukemia: report of a case with a lytic bone lesion. Juneja S, et al. **Leukemia** 1997 May;11(5):765–6

Apoptosis in bone physiology and disease. Hughes DE, et al. **Mol Pathol** 1997 Jun;50(3):132–7 (53 ref.)

Reactive bone and cartilage forming processes of the hands and feet [letter] Ishida T, et al. **Pathol Int** 1995 Dec; 45(12):975–6

Enhancement of ectopic bone formation in mice with a deficit in Fas–mediated apoptosis. Mori S, et al. **Pathol Int** 1997 Feb–Mar;47(2–3):112–6

[Comparison of magnetic resonance Spin–echo sequences and fat–suppressed sequences in bone diseases] Pozzi Mucelli R, et al. **Radiol Med (Torino)** 1997 May;93(5):504–9 (Eng. Abstr.) **(Ita)**

[Sinus histiocytosis with massive lymphadenopathy (Rosai–Dorfman disease). Bone manifestations] Pavlovskaia AI, et al. **Arkh Patol** 1997 May–Jun;59(3):62–6 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

25th European Symposium on Calcified Tissues. Harrogate, United Kingdom, 25–29 April 1997. Abstracts. **Bone** 1997 Apr;20(4 Suppl):1S–140S

Bone injury response. An animal model for testing theories of regulation. Landry PS, et al. **Clin Orthop** 1996 Nov; (332):260–73

Energy expenditure during walking by children who have proximal femoral focal deficiency. Fowler E, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1857–62

[Examination of the mechanical properties of bone] Mazurkiewicz S. **Przegl Lek** 1997;54(4):237–42 (16 ref.) (Eng. Abstr.) **(Pol)**

PREVENTION & CONTROL

Oral vitamin D or calcium carbonate in the prevention of renal bone disease? Argilés A, et al. **Curr Opin Nephrol Hypertens** 1996 Jul;5(4):329–36 (53 ref.)

Bisphosphonates prevent the hungry bone syndrome [letter] Kumar A, et al. **Nephron** 1996;74(4):729

Pamidronate disodium reduces skeletal complications of multiple myeloma [news] **Oncology (Huntingt)** 1996 Feb; 10(2):253

[Muscular and bone disorders and hearing loss as diseases created by man: the primate of prevention (letter)] Mazzella di Bos M. **Med Lav** 1997 Jan–Feb;88(1):81–2 **(Ita)**

[Examination methods for the prevention of traumatic and nontraumatic osteoarthropathies related to flying activity] Rotondo G. **Riv Med Aeronaut Spaz** 1975 Oct–Dec; 38(4):375–91 (25 ref.) (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Bone tumour simulators. Problems and pitfalls in radiology. Fabiny R. **Acta Orthop Scand Suppl** 1997 Feb;273:14–20

Radiology rounds. Benign bone islands. McLennan MK. **Can Fam Physician** 1996 Oct;42:1917, 1922–4

Tales from the other side: the virtues of opposite side radiography. Farrow CS. **Can Vet J** 1997 Jan;38(1):57–8

Diagnostic clarity in orthopedics due to advanced technology: thoughts on the surgeon's role and responsibilities. Kahn A, et al. **Iowa Orthop J** 1997;17:70–9

Clinical and prognostic implications of bone lesions in childhood leukemia at diagnosis. Kai T, et al. **Leuk Lymphoma** 1996 Sep;23(1–2):119–23

Evidence of osteolathyrism among patients suffering from neurolathyrism in Bangladesh. Haque A, et al. **Nat Toxins** 1997;5(1):43–6

Bony involvement in paracoccidioidomycosis. Doria AS, et al. **Pediatr Radiol** 1997 Jan;27(1):67–9

Radiographic skeletal survey and radionuclide bone scan in Langerhans cell histiocytosis of bone. Van Nieuwenhuyse JP, et al. **Pediatr Radiol** 1996 Oct;26(10):734–8

Observer variation in the detection of acetabular bone deficiencies. Wenz JF, et al. **Skeletal Radiol** 1997 May; 26(5):272–8

[High definition roentgen technique. Alternative to or improvement of conventional roentgen technique] Wülker N. **Orthopade** 1997 Mar;26(3):246–50 (Eng. Abstr.) **(Ger)**

[Endemic fluorosis in southern China: radiological findings] Watanabe T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jun;57(7):425–6 (Eng. Abstr.) **(Jpn)**

[A case of an echinococcal lesion of the humeral diaphysis] Mirzoev ES, et al. **Vestn Khir Im I I Grek** 1996;155(3):84–5 **(Rus)**

[Clinical effectiveness of x–ray contrast studies of muscles in patients with diseases of the locomotor system] D'iachkova GV. **Vestn Rentgenol Radiol** 1996 Nov–Dec; (6):27–9 **(Rus)**

[Casual radiological finding of a isquiopubian lithical image] Alvarez Momboisse M, et al. **An Esp Pediatr** 1997 Mar; 46(3):303–4 **(Spa)**

RADIONUCLIDE IMAGING

Isotope imaging. Ryan PJ, et al. **Baillieres Clin Rheumatol** 1996 Nov;10(4):589–613 (54 ref.)

The use of scintigraphy to detect increased osseous metabolic activity about the knee. Dye SF, et al. **Instr Course Lect** 1994;43:453–69 (73 ref.)

Bone scans in neurofibromatosis: neurofibroma, plexiform neuroma and neurofibrosarcoma. Kloos RT, et al. **J Nucl Med** 1996 Nov;37(11):1778–83

Technetium–99m human immunoglobulin (HIG): a new substance for scintigraphic detection of bone and joint infections. Machens HG, et al. **Microsurgery** 1996;

17(5):272–7
Simultaneous administration of 99Tcm–HMPAO–labelled autologous leukocytes and 111In–labelled non–specific polyclonal human immunoglobulin G in bone and joint infections. de Lima Ramos PA, et al. **Nucl Med Commun** 1996 Sep;17(9):749–57
Thallium–201 uptake in Langerhans cell histiocytosis of bone. Bar–Sever Z, et al. **Pediatr Radiol** 1996 Oct;26(10):739–41; discussion 742–3
Radiographic skeletal survey and radionuclide bone scan in Langerhans cell histiocytosis of bone. Van Nieuwenhuyse JP, et al. **Pediatr Radiol** 1996 Oct;26(10):734–8

RADIOTHERAPY

[Biostimulating laser therapy as one method of treating bone and joint diseases] Kucharska E, et al. **Przegl Lek** 1997; 54(2):112–4 (Eng. Abstr.) **(Pol)**

SURGERY

Presigmoid approaches to skull base lesions. Lawton MT, et al. **Adv Tech Stand Neurosurg** 1997;23:189–204 (28 ref.)
Elbow allograft for reconstruction of the elbow with massive bone loss. Long term results. Dean GS, et al. **Clin Orthop** 1997 Aug;(341):12–22
The management of bone defects in revision total knee arthroplasty. Engh GA, et al. **Instr Course Lect** 1997; 46:227–36 (26 ref.)
Preparation of bank bone using defatting, freeze–drying and sterilisation with ethylene oxide gas. Part 2. Clinical evaluation of its efficacy and safety. Kakiuchi M, et al. **Int Orthop** 1996;20(3):147–52
Relationship between mortality rates and hospital patient volume for Medicare patients undergoing major orthopaedic surgery of the hip, knee, spine, and femur. Taylor HD, et al. **J Arthroplasty** 1997 Apr;12(3):235–42
A critical look at intercarpal arthrodesis: review of the literature. Siegel JM, et al. **J Hand Surg [Am]** 1996 Jul; 21(4):717–23 (36 ref.)
Management of postoperative pain in children undergoing orthopaedic surgery. Kart T, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):545–8
The use of the Ilizarov technique in the correction of lower extremity deformities in children. Bassett GS, et al. **Orthopedics** 1997 Jul;20(7):623–7
The role of a composite, demineralized bone matrix and bone marrow in the treatment of osseous defects. Tiedeman JJ, et al. **Orthopedics** 1995 Dec;18(12):1153–8
[Surgical treatment of radiation–induced lesions of the hip in adults] Duparc J, et al. **Bull Acad Natl Med** 1996 Nov; 180(8):1815–36; discussion 1836–9 (Eng. Abstr.) **(Fre)**
[Orthopedic surgery in HIV–positive patients in Zambia (news)] Engelhardt R. **Z Orthop Ihre Grenzgeb** 1997 Jan–Feb;135(1):Oa15 **(Ger)**
[An operative case of cholesterol granuloma of the petrous apex] Saino M, et al. **No Shinkei Geka** 1996 Nov; 24(11):1041–4 (Eng. Abstr.) **(Jpn)**

THERAPY

Use of frozen cranial vault bone allografts in the repair of extensive cranial bone defects. Vanaclocha V, et al. **Acta Neurochir (Wien)** 1997;139(7):653–60
A review of Morquio syndrome. Mikles M, et al. **Am J Orthop** 1997 Aug;26(8):533–40 (31 ref.)
[Extracorporeal shock–wave therapy. Experimental basis, clinical application] Rompe JD, et al. **Orthopade** 1997 Mar; 26(3):215–28 (Eng. Abstr.) **(Ger)**
[Hydroxyapatite ceramics in clinical application. Histological findings in 23 patients] Liebendörfer A, et al. **Unfallchirurgie** 1997 Apr;23(2):60–8 (Eng. Abstr.) **(Ger)**
[Shock waves in orthopedics] Haupt G. **Urologe A** 1997 May; 36(3):233–8 (48 ref.) (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Correlative imaging and pattern approach in ultrasonography of bone lesions: a pictorial essay. Sarazin L, et al. **Can Assoc Radiol J** 1996 Dec;47(6):423–30

VETERINARY

Hypertrophic osteopathy in an alpaca. Curtis C, et al. **Aust Vet J** 1997 Jan;75(1):61–2
Tales from the other side: the virtues of opposite side radiography. Farrow CS. **Can Vet J** 1997 Jan;38(1):57–8
What is your diagnosis? Scottish Fold osteodystrophy. Partington BP, et al. **J Am Vet Med Assoc** 1996 Oct 1; 209(7):1235–6
Nutritional myodegeneration associated with dorsal scapular displacement in beef heifers. Buergelt CD, et al. **J Comp Pathol** 1996 May;114(4):445–50
Triple pelvic osteotomy for the treatment of pelvic canal stenosis in a cat. Ferguson JF. **J Small Anim Pract** 1996 Oct;37(10):495–8
Experimental studies on bovine Hyena disease induced by administration of excessive vitamin AD3E premix, vitamin A, or vitamin D3. Takaki H, et al. **J Vet Med Sci** 1996 Apr;58(4):311–6
Prevalence and histopathology of shell disease in turtles from Lake Blackshear, Georgia. Lovich JE, et al. **J Wildl Dis** 1996 Apr;32(2):259–65
Water restriction and bone metabolism in camels. Ben Goumi M, et al. **Reprod Nutr Dev** 1996;36(5):545–54
Nasal obstruction caused by nutritional osteodystrophia fibrosa in a group of Ethiopian horses. Clarke CJ, et al. **Vet Rec** 1996 Jun 8;138(23):568–70
Management of malunion of metacarpus III/IV in two calves. Steiner A, et al. **Zentralbl Veterinarmed A** 1996 Nov; 43(9):561–71
[Animal nutrition in veterinary medicine––actual case reports. Nutritionally related disturbences in bone development in emus and rheas] Wolf P, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec;103(12):519–22 (Eng. Abstr.) **(Ger)**

BONE DISEASES, DEVELOPMENTAL

Osteoglophonic dysplasia: review and further delineation of the syndrome. Sklower Brooks S, et al. **Am J Med Genet** 1996 Dec 11;66(2):154–62 (20 ref.)
The Marshall–Smith syndrome: a review of the laryngeal complications. Cullen A, et al. **Eur J Pediatr** 1997 Jun; 156(6):463–4
Early conservative and operative treatment to gain early normal growth in proximal femoral focal deficiency. Tönnis D, et al. **J Pediatr Orthop B** 1997 Jan;6(1):59–67
Fragile bone syndrome associated with craniognathic fibro–osseous lesions and abnormal modeling of the tubular bones: report of two cases and review of the literature. Nishimura G, et al. **Skeletal Radiol** 1996 Nov;25(8):717–22 (6 ref.)
Spondylocostal dysplasia and cardiac anomalies in one dizygotic twin. Ozkinay F, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):381–4
[Asphyxiating thoracic dysplasia or Jeune's syndrome. Description of 2 mild familial cases] Capilupi B, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5):529–32 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Plantar heel pain in the adult. Hurwitz SH. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):81–3, 86–8, 91–2
Genu valgum in children with coxa vara resulting from hip disease. Shim JS, et al. **J Pediatr Orthop** 1997 Mar–Apr; 17(2):225–9
Radiological and orthopedic abnormalities in Satoyoshi syndrome. Haymon M, et al. **Pediatr Radiol** 1997 May; 27(5):415–8

CONGENITAL

A further case of vertical transmission of proximal femoral focal deficiency? Bohring A, et al. **Am J Med Genet** 1997 Aug 8;71(2):194–6
Pseudodiastrophic dysplasia type Burgio in a newborn. Fischetto R, et al. **Am J Med Genet** 1997 Aug 8;71(2):222–5
Further clinical delineation and increased morbidity in males with osteopathia striata with cranial sclerosis: an X–linked disorder? Pellegrino JE, et al. **Am J Med Genet** 1997 May 16;70(2):159–65

DIAGNOSIS

Plantar heel pain in the adult. Hurwitz SH. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):81–3, 86–8, 91–2
Lipomembranous polycystic osteodysplasia. Deldinne M, et al. **J Belge Radiol** 1996 Dec;79(6):267
Bilateral choanal narrowing as a presentation of craniometaphyseal dysplasia. Cheung VG, et al. **J Perinatol** 1997 May–Jun;17(3):241–3
Small patella syndrome: a bone dysplasia to recognize and differentiate from the nail–patella syndrome. Azouz EM, et al. **Pediatr Radiol** 1997 May;27(5):432–5
A new lethal skeletal dysplasia or the severe end of the atelosteogenesis spectrum? Fryer AE, et al. **Pediatr Radiol** 1996 Sep;26(9):678–9
Skeletal dysplasias detectable by DNA analysis. Reardon W. **Prenat Diagn** 1996 Dec;16(13):1221–36 (73 ref.)

DRUG THERAPY

Skeletal dysplasias: response to growth hormone therapy. Burren CP, et al. **J Pediatr Endocrinol Metab** 1996 Jan–Feb; 9(1):31–40

ETIOLOGY

Hypercalcemia due to constitutive activity of the parathyroid hormone (PTH)/PTH–related peptide receptor: comparison with primary hyperparathyroidism. Parfitt AM, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3584–8
Major limb deformities as complications of vascular access in neonates. Fullilove S, et al. **Paediatr Anaesth** 1997; 7(3):247–50

GENETICS

New form of bone dysplasia with multiple fractures associated with monosomy X. Azouz EM, et al. **Am J Med Genet** 1996 Dec 11;66(2):163–8
A further case of vertical transmission of proximal femoral focal deficiency? Bohring A, et al. **Am J Med Genet** 1997 Aug 8;71(2):194–6
New autosomal recessive syndrome of mental retardation, coarse face, microcephaly, epilepsy and skeletal abnormalities. Battaglia A, et al. **Clin Dysmorphol** 1996 Jan; 5(1):41–7
Skeletal disorders associated with fibroblast growth factor receptor mutations. De Moerlooze L, et al. **Curr Opin Genet Dev** 1997 Jun;7(3):378–85 (68 ref.)
Bone dysplasias in man: molecular insights. Francomano CA, et al. **Curr Opin Genet Dev** 1996 Jun;6(3):301–8 (57 ref.)
A case of skeletal dysplasia with advanced carpal ossification and "monkey wrench" appearance of the femora: mild Desbuquois dysplasia? Nishimura G, et al. **Eur J Pediatr** 1996 Dec;155(12):1040–2
Fountain syndrome: further delineation of the clinical syndrome and follow–up data. Van Buggenhout GJ, et al. **Genet Couns** 1996;7(3):177–86
A nonsense mutation in the cathepsin K gene observed in a family with pycnodysostosis. Johnson MR, et al. **Genome Res** 1996 Nov;6(11):1050–5
Standing on the ground at Kitty Hawk [editorial; comment] Goldberg MJ. **J Pediatr Orthop** 1996 Nov–Dec;16(6):701–3 . Comment on: J Pediatr Orthop 1996 Nov–Dec;16(6):704–18. Comment on: J Pediatr Orthop 1996 Nov–Dec;16(6):719–22. Comment on: J Pediatr Orthop 1996 Nov–Dec;16(6):723–6. Comment on: J Pediatr Orthop 1996 Nov–Dec;16(6):727–30. Comment on: J Pediatr Orthop 1996 Nov–Dec;16(6):731–3.
High–resolution mapping by YAC fragmentation of a 2.5–Mb Xp22 region containing the human RS, KFSD and CLS disease genes. Van de Vosse E, et al. **Mamm Genome** 1997 Jul;8(7):497–501
Heterozygous manifestations in the heritable disorders of the skeleton. Beighton P. **Pediatr Radiol** 1997 May; 27(5):397–401 (31 ref.)
Short–limb skeletal dysplasias and craniosynostosis: what do they have in common? Cohen MM Jr. **Pediatr Radiol** 1997 May;27(5):442–6 (19 ref.)
Osteochondrodysplasias, dysostoses, disorders of calcium metabolism, congenital malformations with skeletal involvement mapped on human chromosomes. Frézal J, et al. **Pediatr Radiol** 1997 May;27(5):366–87
Bone dysplasias, nontraditional mechanisms of inheritance and monozygotic twins. Hall JG, et al. **Pediatr Radiol** 1997 May;27(5):422–7 (39 ref.)
A short story. Singleton EB. **Pediatr Radiol** 1997 May; 27(5):452–3
Skeletal dysplasias detectable by DNA analysis. Reardon W. **Prenat Diagn** 1996 Dec;16(13):1221–36 (73 ref.)
Craniosynostosis and skeletal dysplasias: fibroblast growth factor receptor defects. Lewanda AF, et al. **Proc Assoc Am Physicians** 1996 Jan;108(1):19–24 (32 ref.)
FGFR activation in skeletal disorders: too much of a good thing. Webster MK, et al. **Trends Genet** 1997 May; 13(5):178–82 (57 ref.)

METABOLISM

Defective growth hormone secretion in children with pycnodysostosis and improved linear growth after growth hormone treatment. Soliman AT, et al. **Arch Dis Child** 1996 Sep;75(3):242–4

PATHOLOGY

Metaphyseal–diaphyseal angle in Blount's disease. A 30–year follow–up of 13 unoperated children. Hägglund G, et al. **Acta Orthop Scand** 1997 Apr;68(2):167–9
SPONASTRIME dysplasia: report on a female patient with severe skeletal changes. Masuno M, et al. **Am J Med Genet** 1996 Dec 30;66(4):429–32
Osteocraniostenosis vs. severe Hallermann–Streiff–François syndrome [letter; comment] Verloes A. **Am J Med Genet** 1997 Jan 10;68(1):105–8. Comment on: Am J Med Genet 1995 Dec 4;59(4):517–20.
Two brothers with deafness, femoral epiphyseal dysplasia, short stature and developmental delay. Chitty LS, et al. **Clin Dysmorphol** 1996 Jan;5(1):17–25
Report of a new case of axial mesodermal dysplasia complex. Bini R, et al. **Clin Genet** 1996 Nov;50(5):407–10
Essential fatty acid deficiency and bone fragility in rats. Stěpánková R, et al. **Folia Biol (Praha)** 1996;42(5):257–9
Metaphyseal fibrous defect (nonossifying fibroma) in the mandible. A case report. Mizukawa N, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):129–30
Protrusio acetabuli: its occurrence in the completely expressed Marfan syndrome and its musculoskeletal component and a procedure to arrest the course of protrusion in the growing pelvis [see comments] Steel HH. **J Pediatr Orthop** 1996 Nov–Dec;16(6):704–18 (100 ref.). Comment in: J Pediatr Orthop 1996 Nov–Dec;16(6):701–3.
A bibliography covering the use of metacarpophalangeal pattern profile analysis in bone dysplasias, congenital malformation syndromes, and other disorders. Poznanski AK, et al. **Pediatr Radiol** 1997 May;27(5):358–65
[Changes in the epiphysis and epiphyseal plate in systemic and genetically–induced diseases] Enderle A. **Z Orthop Ihre Grenzgeb** 1996 Jul–Aug;134(4):309–16 (9 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Auxological standards in bone dysplasias. Hagenäs L. **Horm Res** 1996;45 Suppl 2:24–34 (53 ref.)
A dynamic biomechanical analysis of the etiology of adolescent tibia vara. Davids JR, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):461–8

BONE DISEASES, DEVELOPMENTAL

PSYCHOLOGY

Quality of life in pre-adolescence: a 17-dimensional health-related measure (17D). Apajasalo M, et al. **Qual Life Res** 1996 Dec;5(6):532-8

RADIOGRAPHY

Neurologic abnormalities in the skeletal dysplasias: a clinical and radiological perspective. Lachman RS. **Am J Med Genet** 1997 Mar 3;69(1):33-43 (103 ref.)

Hyperphosphatasemia: CT assessment. Muntaner L, et al. **Eur Radiol** 1997;7(1):73-6

Radiologic case study. Tibia vara (osteochondrosis deformans tibiae). Karna A, et al. **Orthopedics** 1996 Nov;19(11):988, 983-6

Osteoglophonic dysplasia: appearance and progression of multiple nonossifying fibromata. Azouz EM, et al. **Pediatr Radiol** 1997 Jan;27(1):75-8

Standard method of diagnosis versus use of a computer database in the evaluation of skeletal dysplasias. Harned RK 2nd, et al. **Pediatr Radiol** 1996 Dec;26(12):887-90

Radiological and orthopedic abnormalities in Satoyoshi syndrome. Haymon M, et al. **Pediatr Radiol** 1997 May; 27(5):415-8

The cervical spine in the skeletal dysplasias and associated disorders. Lachman RS. **Pediatr Radiol** 1997 May; 27(5):402-8 (29 ref.)

Sponastrime dysplasia: diagnostic criteria based on five new and six previously published cases. Langer LO Jr, et al. **Pediatr Radiol** 1997 May;27(5):409-14

The scapula as a window to the diagnosis of skeletal dysplasias. Mortier GR, et al. **Pediatr Radiol** 1997 May; 27(5):447-51

Atelosteogenesis syndromes: a review, with comments on their pathogenesis. Sillence D, et al. **Pediatr Radiol** 1997 May;27(5):388-96 (35 ref.)

GAPO syndrome (Radiographic clues to early diagnosis). Baxova A, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):289-91

Glenoid hypoplasia and its relationship to instability. Trout TE, et al. **Skeletal Radiol** 1996 Jan;25(1):37-40

[Labrum lesions and acetabular dysplasia in adults] Pitto RP, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep-Oct;134(5):452-6 (27 ref.) (Eng. Abstr.) **(Ger)**

[Analysis of x-ray manifestations and changes in dysplastic lesions of the skull bones] Rabukhina NA, et al. **Vestn Rentgenol Radiol** 1996 Nov-Dec;(6):19-22 (Eng. Abstr.) **(Rus)**

SURGERY

Contemporary trends in orthopaedics of the hip joint. 3. Steel's triple pelvic osteotomy in the treatment of arthritis of the hip joint in dysplasia of the acetabulum. Rejholec M. **Acta Univ Carol [Med] (Praha)** 1992;38(1-4):35-47

Intracranial and extracranial reduction osteoplasty for craniodiaphyseal dysplasia. Sinow JD, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):284-90

Postosteotomy healing in Pyle's disease (familial metaphyseal dysplasia). A case report. Lindberg EJ, et al. **Clin Orthop** 1997 Aug;(341):215-7

Humeral lengthening using the Ilizarov technique. Yang CB, et al. **J Formos Med Assoc** 1997 Apr;96(4):291-4

Treatment of adolescent Blount disease with the circular external fixation device and distraction osteogenesis. Coogan PG, et al. **J Pediatr Orthop** 1996 Jul-Aug; 16(4):450-4

Infantile Blount disease: long-term follow-up of surgically treated patients at skeletal maturity. Doyle BS, et al. **J Pediatr Orthop** 1996 Jul-Aug;16(4):469-76

Use of Orthofix T-Garche fixator in late-onset tibia vara. Gaudinez R, et al. **J Pediatr Orthop** 1996 Jul-Aug; 16(4):455-60

Limb lengthening and correction of angulation deformity: immediate correction by using a unilateral fixator. Kamegaya M, et al. **J Pediatr Orthop** 1996 Jul-Aug; 16(4):477-9

Hemiepiphyseal stapling for knee deformities in children younger than 10 years: a preliminary report. Mielke CH, et al. **J Pediatr Orthop** 1996 Jul-Aug;16(4):423-9

Valgus osteotomy of the humeral neck: a technique for the treatment of humerus varus. Gill TJ, et al. **J Shoulder Elbow Surg** 1997 May-Jun;6(3):306-10

Treatment of tibial defects due to osteomyelitis by postero-lateral cortico-cancellous bone grafting. Beaso J. **Trop Doct** 1996 Jul;26(3):118-20

THERAPY

Long-term results after adolescent Blount's disease. Ingvarsson T, et al. **J Pediatr Orthop B** 1997 Apr;6(2):153-6

ULTRASONOGRAPHY

Prenatal diagnosis of bilateral proximal femoral hypoplasia. Gonçalves LF, et al. **Ultrasound Obstet Gynecol** 1996 Aug; 8(2):127-30

VETERINARY

Another consideration for radiographic diagnosis [letter] Marcellin-Little DJ. **J Am Vet Med Assoc** 1997 May 1; 210(9):1264

What is your diagnosis? Faint vertical condylar radiolucency, secondary to incomplete ossification of the humeral condyle. Marcellin-Little DL, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):727-8

Ultraviolet lights for reptiles [letter] Harcourt-Brown F. **Vet Rec** 1996 May 25;138(21):528

[Lameness in young dogs] **Tijdschr Diergeneeskd** 1997 Feb 15;122(4):112 **(Dut)**

[The transverse movement of the temporo-mandibular joint (translation movement) of the dog, also with reference to dysplasia of this joint in the dachshund] Vollmerhaus B, et al. **Anat Histol Embryol** 1996 Sep;25(3):145-9 (Eng. Abstr.) **(Ger)**

BONE DISEASES, METABOLIC

Metabolic bone disease of prematurity. Backström MC, et al. **Ann Med** 1996 Aug;28(4):275-82 (73 ref.)

Metabolic bone disease. **Curr Opin Rheumatol** 1996 Jul; 8(4):B126-35

Metabolic bone disease. **Curr Opin Rheumatol** 1997 Jul; 9(4):B142-57

American Society for Bone and Mineral Research annual meeting 1996. Fuller Albright Award. Frederic C. Bartter Award. William F. Neuman Award. **J Bone Miner Res** 1997 Jan;12(1):2-5

Normal linear growth in hypophosphataemic bone disease. Mactier H, et al. **Scott Med J** 1996 Oct;41(5):150-1

BLOOD

Type I collagen and procollagen fragments in patients with metabolic bone diseases. Lin JS, et al. **J Formos Med Assoc** 1996 Jul;95(7):523-9

CHEMICALLY INDUCED

Glucocorticoid-induced osteopenia in rats: histomorphometrical and microarchitectural characterization and calcitonin effect. Nakamuta H, et al. **Biol Pharm Bull** 1996 Feb;19(2):217-9

Qualitative alterations of cortical bone in female rats after long-term administration of growth hormone and glucocorticoid. Ortoft G, et al. **Bone** 1996 Jun;18(6):581-90

The relationship of fluorosis and brick tea drinking in Chinese Tibetans. Cao J, et al. **Environ Health Perspect** 1996 Dec; 104(12):1340-3

The role of testosterone in cyclosporine-induced osteopenia. Bowman AR, et al. **J Bone Miner Res** 1997 Apr; 12(4):607-15

Osteopenia induced by long-term, low- and high-level exposure of the adult rat to lead. Gruber HE, et al. **Miner Electrolyte Metab** 1997;23(2):65-73

CLASSIFICATION

Defining osteopenias and osteoporoses: another view (with insights from a new paradigm). Frost HM. **Bone** 1997 May; 20(5):385-91 (76 ref.)

COMPLICATIONS

Osteoporosis and bone mineral metabolism disorders in cirrhotic patients referred for orthotopic liver transplantation. Monegal A, et al. **Calcif Tissue Int** 1997 Feb;60(2):148-54

Fracture healing in a rat osteopenia model. Walsh WR, et al. **Clin Orthop** 1997 Sep;(342):218-27

The role of osteopenia in oral bone loss and periodontal disease. Wactawski-Wende J, et al. **J Periodontol** 1996 Oct; 67(10 Suppl):1076-84 (108 ref.)

Osteopenia occurs in a minority of patients with acromegaly and is predominant in the spine. Kayath MJ, et al. **Osteoporos Int** 1997;7(3):226-30

A potential experimental model for the study of osteopenia in CCl4 liver cirrhotic rats. Muguerza B, et al. **Rev Esp Fisiol** 1996 Jun;52(2):113-9

Osteopenia in adolescent idiopathic scoliosis. A primary problem or secondary to the spinal deformity? Cheng JC, et al. **Spine** 1997 Aug 1;22(15):1716-21

Destructive spondyloarthropathy of the cervical spine in patients with chronic renal failure. Kumar A, et al. **Spine** 1997 Mar 1;22(5):573-7; discussion 578

[Fracture of the sacrum caused by bone insufficiency in a pregnant woman] Grimaud A, et al. **J Radiol** 1997 Jul; 78(7):511-2 (Eng. Abstr.) **(Fre)**

[Hungry-bone syndrome: a nearly-forgotten disease] Reiser P, et al. **Schweiz Med Wochenschr** 1996 Dec 28; 126(51-52):2217-22 (Eng. Abstr.) **(Ger)**

[Bone metabolic disease associated with celiac disease] Bai JC, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):209-16 (49 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Long-term vegetarian diet and bone mineral density in postmenopausal Taiwanese women. Chiu JF, et al. **Calcif Tissue Int** 1997 Mar;60(3):245-9

Laboratory assessment of nutritional metabolic bone disease in infants. Koo WW. **Clin Biochem** 1996 Oct;29(5):429-38 (126 ref.)

Diagnostic and therapeutic aspects of calciotropic hormones. Cormier C, et al. **Curr Opin Rheumatol** 1997 Jul;9(4):370-6 (40 ref.)

Hypovitaminosis D and decreased bone mineral density in amyotrophic lateral sclerosis. Sato Y, et al. **Eur Neurol** 1997;37(4):225-9

Bone densitometry: patients with asymptomatic primary hyperparathyroidism part I. Technical report. Erlichman M, et al. **Health Technol Assess** 1995 Dec;(6):1-30 (181 ref.)

Clinical utility of bone mass measurements in adults: consensus of an international panel. The Society for Clinical Densitometry. Miller PD, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):361-72 (67 ref.)

[Spontaneous remission of corticosteroid osteopenia after successful surgical treatment of Cushing's syndrome. A cross-sectional study] Stěpán J, et al. **Cas Lek Cesk** 1997 Jul 30;136(15):464-7 (Eng. Abstr.) **(Cze)**

[Bone metabolism and disorders] Raue F, et al. **Internist (Berl)** 1996 May;37(5):539-49 (8 ref.) **(Ger)**

[Laboratory diagnosis of metabolic osteopathy] Schmidt-Gayk H. **Med Klin** 1996 Feb 15;91 Suppl 1:38-9 **(Ger)**

[Metabolic osteopathies. Osteodensitometry methods] Wüster C. **Med Klin** 1996 Feb 15;91 Suppl 1:40-1 **(Ger)**

DIET THERAPY

Long-term effect of gluten restriction on bone mineral density of patients with coeliac disease. Bai JC, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):157-64

DRUG THERAPY

Effects of dihydrotestosterone alone and combined with estrogen on bone mineral density, bone growth, and formation rates in ovariectomized rats. Coxam V, et al. **Bone** 1996 Aug;19(2):107-14

Effects of prostaglandin E2 and F2 alpha on the skeleton of osteopenic ovariectomized rats. Ma YF, et al. **Bone** 1995 Dec;17(6):549-54

No loss of biomechanical effects after withdrawal of short-term PTH treatment in an aged, osteopenic, ovariectomized rat model. Mosekilde L, et al. **Bone** 1997 May;20(5):429-37

Growth hormone is not able to counteract osteopenia of rat cortical bone induced by glucocorticoid with protracted effect. Ortoft G, et al. **Bone** 1995 Dec;17(6):543-48

The effects of long-term hormone replacement therapy on bone remodeling in postmenopausal women. Vedi S, et al. **Bone** 1996 Nov;19(5):535-9

Cyclical etidronate prevents spinal bone loss in early post-menopausal women [letter] Tobias JH, et al. **Br J Rheumatol** 1997 May;36(5):612-3

Can the fast bone loss in osteoporotic and osteopenic patients be stopped with active vitamin D metabolites? Dambacher MA, et al. **Calcif Tissue Int** 1997 Jan;60(1):115-8

Calcitonin, etidronate, and calcidiol treatment in bone loss after cardiac transplantation. Garcia-Delgado I, et al. **Calcif Tissue Int** 1997 Feb;60(2):155-9

Clinical use of bisphosphonates. Devogelaer JP. **Curr Opin Rheumatol** 1996 Jul;8(4):384-91 (60 ref.)

Effects of low- and conventional-dose transcutaneous HRT over 2 years on bone metabolism in younger and older postmenopausal women. Sharp CA, et al. **Eur J Clin Invest** 1996 Sep;26(9):763-71

Etidronate versus fluoride for treatment of osteopenia in primary biliary cirrhosis: preliminary results after 2 years. Guañabens N, et al. **Gastroenterology** 1997 Jul; 113(1):219-24

Transdermal versus oral administration of estrogen in the management of lumbar spine osteopenia in an adolescent with anorexia nervosa. Harel Z, et al. **J Adolesc Health** 1997 Sep;21(3):179-82

Raloxifene analog (LY117018 HCL) ameliorates cyclosporin A-induced osteopenia in oophorectomized rats. Bowman AR, et al. **J Bone Miner Res** 1996 Aug;11(8):1191-8

Tartronates: a new generation of drugs affecting bone metabolism. Caselli G, et al. **J Bone Miner Res** 1997 Jun; 12(6):972-81

RS-66271, a C-terminally substituted analog of human parathyroid hormone-related protein (1-34), increases trabecular and cortical bone in ovariectomized, osteopenic rats. Vickery BH, et al. **J Bone Miner Res** 1996 Dec; 11(12):1943-51

Effects of short-term recombinant human insulin-like growth factor I administration on bone turnover in osteopenic women with anorexia nervosa. Grinspoon S, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3864-70

Skeletal effects of cyclic recombinant human growth hormone and salmon calcitonin in osteopenic postmenopausal women. Holloway L, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1111-7

Intermittent parathyroid hormone administration stimulates bone formation in the mandibles of aged ovariectomized rats. Miller SC, et al. **J Dent Res** 1997 Aug;76(8):1471-6

Osteopenia in genetically diabetic DB/DB mice and effects of 1alpha-hydroxyvitamin D3 on the osteopenia. Basic Research Group. Takeshita N, et al. **Life Sci** 1995 Feb 17;56(13):1095-101

Hormone replacement therapy increases trabecular and cortical bone density in osteoporotic women. Bagur A, et al. **Medicina (B Aires)** 1996;56(3):247-51

Amelioration of hemiplegia-associated osteopenia more than 4 years after stroke by 1 alpha-hydroxyvitamin D3 and calcium supplementation. Sato Y, et al. **Stroke** 1997 Apr; 28(4):736-9

[Current status of therapy with bisphosphonates] Hofbauer

LC, et al. **Dtsch Med Wochenschr** 1997 Jun 20; 122(25–26):835–41 (50 ref.) **(Ger)**

[Effect of low doses of oral pamidronate (APD) on the calcemia of osteopenic or osteoporotic patients] Roldan EJ, et al. **Medicina (B Aires)** 1996;56(2):133–7 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Tartrate–resistant acid phosphate activity as osteoclastic marker: sensitivity of cytochemical assessment and serum assay in comparison with standardized osteoclast histomorphometry. Ballanti P, et al. **Osteoporos Int** 1997; 7(1):39–43

EPIDEMIOLOGY

Osteopenia and stable isotope ratios in bone collagen of Nubian female mummies. White CD, et al. **Am J Phys Anthropol** 1997 Jun;103(2):185–99

The relationship of fluorosis and brick tea drinking in Chinese Tibetans. Cao J, et al. **Environ Health Perspect** 1996 Dec; 104(12):1340–3

ETIOLOGY

Alcohol–induced bone disease: impact of ethanol on osteoblast proliferation. Klein RF. **Alcohol Clin Exp Res** 1997 May;21(3):392–9 (112 ref.)

Prevalence and risk factors for osteopenia in dialysis patients. Stein MS, et al. **Am J Kidney Dis** 1996 Oct;28(4):515–22

Inflammatory bowel disease and predisposition to osteopenia. Cowan FJ, et al. **Arch Dis Child** 1997 Apr;76(4):325–9

Hypocalcemia and skeletal disease as presenting features of celiac disease. Shaker JL, et al. **Arch Intern Med** 1997 May 12;157(9):1013–6

Neural involvement in post–traumatic osteopenia: an experimental study in the rat. Madsen JE, et al. **Bone** 1996 May;18(5):411–6

Development of osteopenia in the hemiplegic finger in patients with stroke. Sato Y, et al. **Eur Neurol** 1996; 36(5):278–83

Osteopenia following total gastrectomy in the rat—state of mineral metabolism and bone histomorphometry. Rümenapf G, et al. **Eur Surg Res** 1997;29(3):209–21

Propeptide of type I procollagen is predictive of posttreatment bone mass gain in adult celiac disease. Corazza GR, et al. **Gastroenterology** 1997 Jul;113(1):67–71

Etidronate versus fluoride for treatment of osteopenia in primary biliary cirrhosis: preliminary results after 2 years. Guañabens N, et al. **Gastroenterology** 1997 Jul; 113(1):219–24

Bone disease after liver transplantation should not be underestimated [letter; comment] Compston JE, et al. **Gut** 1997 May;40(5):695–6. Comment on: Gut 1996 Oct;39(4):505–7.

Osteopenia in adult coeliac disease [letter] Di Stefano M, et al. **Gut** 1996 Sep;39(3):496

Effect of a gluten free diet on osteopenia in adults with newly diagnosed coeliac disease. McFarlane XA, et al. **Gut** 1996 Aug;39(2):180–4

Persistent osteopenia after recovery from anorexia nervosa. Ward A, et al. **Int J Eat Disord** 1997 Jul;22(1):71–5

Relationship between changes of bone mineral content and twelve–minute walking distance in men with chronic obstructive pulmonary disease: a longitudinal study. Nishimura Y, et al. **Intern Med** 1997 Jul;36(7):450–3

Factors associated with bone mineral density in middle–aged men. Bendavid EJ, et al. **J Bone Miner Res** 1996 Aug; 11(8):1185–90

Effects of short–term recombinant human insulin–like growth factor I administration on bone turnover in osteopenic women with anorexia nervosa. Grinspoon S, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3864–70

Can adrenarche influence the degree of osteopenia in thalassemic children? Filosa A, et al. **J Pediatr Endocrinol Metab** 1996 May–Jun;9(3):401–6

Frequency of metabolic bone disease in haemodialysis patients. Hussain R, et al. **JPMA J Pak Med Assoc** 1996 Apr;46(4):83–6

Growth retardation and bone loss as determinants of axial osteopenia in juvenile chronic arthritis. Kotaniemi A. **Scand J Rheumatol** 1997;26(1):14–8

Vertebral body osteopenia associated with posterolateral spine fusion in humans. Myers MA, et al. **Spine** 1996 Oct 15;21(20):2368–71

Vitamin D deficiency and osteopenia in the hemiplegic limbs of stroke patients. Sato Y, et al. **Stroke** 1996 Dec; 27(12):2183–7

Amelioration of hemiplegia–associated osteopenia more than 4 years after stroke by 1 alpha–hydroxyvitamin D3 and calcium supplementation. Sato Y, et al. **Stroke** 1997 Apr; 28(4):736–9

[Osteopenia: a consequence of anorexia nervosa] Jornod P, et al. **Rev Med Suisse Romande** 1997 Jun;117(6):485–94 (Eng. Abstr.) **(Fre)**

[Osteoporosis in the man—incidence of secondary osteopenia in patients of an orthopedic practice] Ambs D, et al. **Med Klin** 1996 Feb 15;91 Suppl 1:42–3 **(Ger)**

[Osteopenia in beta–thalassemia major] Brändle M, et al. **Schweiz Med Wochenschr** 1996 Nov 2;126(44):1867–74 (Eng. Abstr.) **(Ger)**

[Diabetic osteopathy] Goliat EA, et al. **Pol Arch Med Wewn** 1997 Feb;97(2):161–9 (40 ref.) **(Pol)**

[Study of bone density in systemic scleroderma] da Silva HC, et al. **Rev Assoc Med Bras** 1997 Jan–Mar;43(1):40–6 (Eng. Abstr.) **(Por)**

[Histomorphometric analysis of the bone tissue in patients with non–insulin–dependent diabetes (DMNID)] Leite Duarte ME, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jan–Feb;51(1):7–11 (Eng. Abstr.) **(Por)**

[Structure–activity study of C–cells and parathyroctyes in osteopenias caused by lack of load on the musculoskeletal system] Dmitrieva NP, et al. **Dokl Akad Nauk** 1996 Jul; 349(2):265–8 **(Rus)**

[Alcohol, liver, and bone involvement. Hepatic osteodystrophy] Pumarino H. **Rev Med Chil** 1996 Aug; 124(8 Suppl):92–6 **(Spa)**

GENETICS

Osteopenia, abnormal dentition, hydrops fetalis and communicating hydrocephalus: unusual early clinical signs in Coffin–Lowry syndrome [letter; comment] Fryns JP. **Clin Genet** 1996 Aug;50(2):112. Comment on: Clin Genet 1995 Oct;48(4):217–20.

Osteopenia in 37 members of seven families: analysis based on a model of dominant inheritance. Spotila LD, et al. **Mol Med** 1996 May;2(3):313–24

[New aspects in diagnosis and therapy of hereditary diseases of the nervous and skeletal systems (editorial)] Plecko B, et al. **Wien Klin Wochenschr** 1997 Feb 14;109(3):65–7 **(Ger)**

METABOLISM

Role of nonenzymatic glycosylation of type I collagen in diabetic osteopenia. Katayama Y, et al. **J Bone Miner Res** 1996 Jul;11(7):931–7

Altered hydroxylation of estrogen in patients with postmenopausal osteopenia. Lim SK, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1001–6

Zinc stimulates protein synthesis in the femoral–metaphyseal tissues of normal and skeletally unloaded rats. Ehara Y, et al. **Res Exp Med (Berl)** 1997;196(6):363–72

[Bone metabolism and diseases] Raue F, et al. **Orthopade** 1996 Nov;25(6):567–77 **(Ger)**

NURSING

Metabolic bone disease in very–low–birth–weight infants: assessment, prevention, and treatment by neonatal nurse practitioners. Smith SL, et al. **J Obstet Gynecol Neonatal Nurs** 1997 May–Jun; 26(3):297–302

PATHOLOGY

Shprintzen–Goldberg syndrome with osteopenia and progressive hydrocephalus [letter] Hassed S, et al. **Am J Med Genet** 1997 Jun 27;70(4):450–3

Embedding undecalcified bone in polymethyl methacrylate: an improved method. Hand NM. **Br J Biomed Sci** 1996 Sep;53(3):238–40

Systemic osteopenia and mineralization defect in patients with ankylosing spondylitis. Szejnfeld VL, et al. **J Rheumatol** 1997 Apr;24(4):683–8

The role of bone biopsy in evaluating bone disease. Bullough PG. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):37S–43S (18 ref.)

[Investigation of tibial bones of the rats exposed on board "Spacelab–2":histomorphometric analysis] Durnova GN, et al. **Aviakosm Ekolog Med** 1996;30(1):21–6 (Eng. Abstr.) **(Rus)**

[Structure–activity study of C–cells and parathyroctyes in osteopenias caused by lack of load on the musculoskeletal system] Dmitrieva NP, et al. **Dokl Akad Nauk** 1996 Jul; 349(2):265–8 **(Rus)**

PHYSIOPATHOLOGY

Bone mineral density in patients with pancreatic insufficiency and steatorrhea. Morán CE, et al. **Am J Gastroenterol** 1997 May;92(5):867–71

Time course of femoral neck osteopenia in ovariectomized rats. Li M, et al. **Bone** 1997 Jan;20(1):55–61

Dynamic relationships of trabecular bone density, architecture, and strength in a computational model of osteopenia. Siffert RS, et al. **Bone** 1996 Feb;18(2):197–206

Modeling the mechanical behavior of vertebral trabecular bone: effects of age–related changes in microstructure. Silva MJ, et al. **Bone** 1997 Aug;21(2):191–9

The role of the T–lymphocyte in estrogen deficiency osteopenia. Sass DA, et al. **J Bone Miner Res** 1997 Mar; 12(3):479–86

Trabecular bone architecture in female renal allograft recipients—assessed by computed tomography. Grotz WH, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):564–9

[Cytokines, growth factors, and metabolic bone disease] Pumarino H, et al. **Rev Med Chil** 1996 Feb;124(2):248–57 (35 ref.) (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Histomorphometrical evaluation of anti–osteopenic effect of nasal salmon calcitonin in a type 1 osteoporotic model of rats. Nitta T, et al. **Biol Pharm Bull** 1996 Feb;19(2):214–6

Tetracycline prevents cancellous bone loss and maintains near–normal rates of bone formation in streptozotocin diabetic rats. Bain S, et al. **Bone** 1997 Aug;21(2):147–53

The androgenic anabolic steroid nandrolone decanoate prevents osteopenia and inhibits bone turnover in ovariectomized cynomolgus monkeys. Jerome CP, et al. **Bone** 1997 Apr;20(4):355–64

Alendronate prevents cyclosporin A–induced osteopenia in the rat. Sass DA, et al. **Bone** 1997 Jul;21(1):65–70

Diagnostics: the correlation of bone mineral density and biochemical markers to fracture risk—where do we go from here? Clinical practice guidelines for the prevention and treatment of osteoporosis and osteopenia. Indianapolis, Indiana, September 7–8, 1995. The Osteoporosis Global Medical Conference. **Calcif Tissue Int** 1996;59 Suppl 1:S1–37 (0 ref.)

Clodronate prevents bone loss in aged ovariectomized rats. Kippo K, et al. **Calcif Tissue Int** 1997 Aug;61(2):151–7

Practice guidelines for the treatment of osteoporosis. Prince RL. **Calcif Tissue Int** 1996;59 Suppl 1:S20–3 (7 ref.)

Calcitonin provides complete protection against cancellous bone loss in the femoral neck of ovariectomized rats. Shen Y, et al. **Calcif Tissue Int** 1997 May;60(5):457–61

Raloxifene inhibits bone turnover and prevents further cancellous bone loss in adult ovariectomized rats with established osteopenia. Evans GL, et al. **Endocrinology** 1996 Oct;137(10):4139–44

Bisphosphonates clodronate and etidronate in the prevention of ovariectomy–induced osteopenia in growing rats. Lepola VT, et al. **J Bone Miner Res** 1996 Oct;11(10):1508–17

Slow–release clodronate in prevention of inflammation and bone loss associated with adjuvant arthritis. Osterman T, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1001–7

Effect of disodium monofluorophosphate, calcium and vitamin D supplementation on bone mineral density in patients chronically treated with glucocorticosteroids: a prospective, randomized, double–blind study. Lippuner K, et al. **Miner Electrolyte Metab** 1996;22(4):207–13

Ketoprofen lysine salt inhibits disuse–induced osteopenia in a new non–traumatic immobilization model in the rat. Fiorentino S, et al. **Pharmacol Res** 1996 Apr–May; 33(4–5):277–81

The effect of pulsed electromagnetic fields on instrumented posterolateral spinal fusion and device–related stress shielding. Ito M, et al. **Spine** 1997 Feb 15;22(4):382–8

RADIOGRAPHY

Bone densitometry: comparison of dual energy x–ray absorptiometry to radiographic absorptiometry. Swezey RL, et al. **J Rheumatol** 1996 Oct;23(10):1734–8

RADIONUCLIDE IMAGING

Bone scintigraphy in metabolic bone disease. Ryan PJ, et al. **Semin Nucl Med** 1997 Jul;27(3):291–305 (67 ref.)

SURGERY

Vertebral osteopenia: a new indication for surgery in primary hyperparathyroidism. Silverberg SJ, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4007–12

THERAPY

Bone mass and endocrine adaptations to training in spinal cord injured individuals. Bloomfield SA, et al. **Bone** 1996 Jul;19(1):61–8

[Growth hormone: effect on bone metabolism and bone density] Kann P, et al. **Med Klin** 1996 Feb 15;91 Suppl 1:46–9 **(Ger)**

ULTRASONOGRAPHY

Bone density and quality measurement using ultrasound. Hans D, et al. **Curr Opin Rheumatol** 1996 Jul;8(4):370–5 (47 ref.)

URINE

Urinary N–telopeptide levels discriminate normal, osteopenic, and osteoporotic bone mineral density. Schneider DL, et al. **Arch Intern Med** 1997 Jun 9; 157(11):1241–5

VETERINARY

Osteodystrophy in a kitten. Watson AD, et al. **Aust Vet J** 1997 Jan;75(1):16, 30–1

Magnetic resonance imaging and computerized tomography of a gravid leopard tortoise (Geochelone pardalis pardalis) with metabolic bone disease. Raiti P, et al. **J Zoo Wildl Med** 1997 Jun;28(2):189–97

BONE DYSPLASIAS see **BONE DISEASES, DEVELOPMENTAL**

BONE GLA PROTEIN see **OSTEOCALCIN**

BONE GLUES see **BONE CEMENTS**

BONE HYPERTROPHY see **HYPEROSTOSIS**

BONE LENGTHENING

The straight line graph in limb length inequality. A new design based on 182 Dutch children. Beumer A, et al. **Acta Orthop Scand** 1997 Aug;68(4):355–60

Dual–energy X–ray absorptiometry predicts bone formation

in lower limb callotasis lengthening. Maffulli N, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):250–6

Effect of pulsed electromagnetic fields on bone formation and bone loss during limb lengthening. Eyres KS, et al. **Bone** 1996 Jun;18(6):505–9

Limb lengthening in children with achondroplasia. Differences based on gender. Ganel A, et al. **Clin Orthop** 1996 Nov;(332):179–83

Prevention of deformity during limb lengthening. Simpson AH, et al. **Clin Orthop** 1997 Aug;(341):218–23

Quantitative assessment of callus distraction using dual energy X-ray absorptiometry. Reiter A, et al. **Int Orthop** 1997;21(1):35–40

Pearls and pitfalls of deformity correction and limb lengthening via monolateral external fixation. Noonan KJ, et al. **Iowa Orthop J** 1996;16:58–69

Management of fibular hemimelia: amputation or limb lengthening. Naudie D, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):58–65

The forces which develop in the tissues during leg lengthening. A clinical study. Simpson AH, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):979–83

Electrophysiologic evaluation of neuromuscular functions during limb lengthening by callus distraction. Huang SC, et al. **J Formos Med Assoc** 1997 Mar;96(3):172–8

Femoral lengthening: callotasis with Ilizarov external fixator alone and with intramedullary locking nail. Lee WH, et al. **J Formos Med Assoc** 1997 Feb;96(2):98–102

Limb lengthening promotes muscle growth. Day CS, et al. **J Orthop Res** 1997 Mar;15(2):227–34

Biochemical and density assessment of the new bone in late remodeling after callus distraction. Lammens J, et al. **J Orthop Res** 1997 May;15(3):391–7

Femoral lengthening after type IVB septic arthritis of the hip in children. Cheng JC, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):533–9

Problems in the lower extremity [editorial] Fixsen JA. **J Pediatr Orthop** 1996 Jul–Aug;16(4):421–2

Limb lengthening and correction of angulation deformity: immediate correction by using a unilateral fixator. Kamegaya M, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):477–9

Callus response to micromovement after elongation in the rabbit. Kassis B, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):480–3

Effect of intermittent cigarette smoke inhalation on tibial lengthening: experimental study on rabbits. Ueng SW, et al. **J Trauma** 1997 Feb;42(2):231–8

Managing length: the 'too long' leg. Cameron HU. **Orthopedics** 1997 Sep;20(9):791–2

Distraction osteogenesis of costochondral neomandibles: a clinical experience. Corcoran J, et al. **Plast Reconstr Surg** 1997 Aug;100(2):311–5; discussion 316–7

Gradual bone distraction in craniosynostosis. Preliminary results in seven cases. do Amaral CM, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Mar; 31(1):25–37

[Use of a custom made femoral prosthesis in the treatment of a femoral agenesis] Arlaud JY, et al. **Int Orthop** 1996; 20(2):111–6 (Eng. Abstr.) **(Fre)**

[Plastic soft tissue coverage in defect fractures of the tibia] Steinau HU, et al. **Chirurg** 1996 Nov;67(11):1080–6 (30 ref.) (Eng. Abstr.) **(Ger)**

[Leg-lengthening for length inequality] Burgansky Z, et al. **Harefuah** 1997 Mar 16;132(6):392–6, 448 (Eng. Abstr.) **(Heb)**

ADVERSE EFFECTS

Effect of the distraction rate on the activity of the osteoblast lineage in distraction osteogenesis of rat's tibia. Immunostaining study of the proliferating cell nuclear antigen, osteocalcin, and transglutaminase C. Choi IH, et al. **Bull Hosp Jt Dis** 1997;56(1):34–40

Severe growth retardation following limb lengthening: a case report. Price CT, et al. **Iowa Orthop J** 1996;16:139–46

Severe tibial growth retardation in total fibular hemimelia after limb lengthening. Sharma M, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):438–44

INSTRUMENTATION

Distraction lengthening following growth cessation due to thumb replantation in a child. Hallock GG. **Ann Plast Surg** 1996 Dec;37(6):624–8

Distraction osteogenesis in the mandible with a motor-driven plate: a preliminary animal study. Schmelzeisen R, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):375–8

Mechanical characterization of a totally intramedullary gradual elongation nail. Guichet JM, et al. **Clin Orthop** 1997 Apr;(337):281–90

Submerged intraoral device for mandibular lengthening. Diner PA, et al. **J Craniomaxillofac Surg** 1997 Jun; 25(3):116–23

Lengthening of a congenitally short metacarpal using a "napkin-ring" in-between-plasty. Mirly HL, et al. **Orthopedics** 1997 Jan;20(1):71–3

[Callus distraction in tibial defect fractures] Giebel G. **Chirurg** 1996 Nov;67(11):1063–8 (8 ref.) (Eng. Abstr.) **(Ger)**

[The monorail system--bone segment transport over unreamed interlocking nails] Oedekoven G, et al. **Chirurg** 1996 Nov;67(11):1069–79 (Eng. Abstr.) **(Ger)**

[Ultrasound follow-up of callus distraction of the tibia. Technique, possibilities and limits] Richter D, et al. **Chirurg** 1996 Nov;67(11):1152–9 (Eng. Abstr.) **(Ger)**

[A new method for treating the Kirner deformity with the SM-Fix phalangeal distractor] Moser N, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):34–8 (Eng. Abstr.) **(Ger)**

[Callus distraction for progressive lengthening of the capitate bone after resection of the lunate bone in stage III lunate malacia. Surgical technique and 1 year results] Wilhelm K, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):10–9 (Eng. Abstr.) **(Ger)**

[Perspectives in callus distraction] Baumgart R, et al. **Unfallchirurg** 1996 Feb;99(2):84–91 (26 ref.) (Eng. Abstr.) **(Ger)**

[Unilateral stepwise lengthening osteotomy of the femur] Strecker W, et al. **Unfallchirurg** 1997 Feb;100(2):124–32 (Eng. Abstr.) **(Ger)**

METHODS

Distraction frequency and the gastrocnemius muscle in tibial lengthening. Studies in rabbits. Mizumoto Y, et al. **Acta Orthop Scand** 1996 Dec;67(6):562–5

Longitudinal growth rate following slow physeal distraction. The proximal tibial growth plate studied in rabbits. Pereira BP, et al. **Acta Orthop Scand** 1997 Jun;68(3):262–8

Femur lengthening with a vascularized tibia bone flap. Fealy MJ, et al. **Ann Plast Surg** 1996 Aug;37(2):140–6

Multiple segmental gradual distraction of facial skeleton: an experimental study. Rachmiel A, et al. **Ann Plast Surg** 1996 Jan;36(1):52–9

Leg lengthening and bone transport in children. Hill RA, et al. **Br J Hosp Med** 1997 Apr 16–May 6;57(8):399–404 (15 ref.)

Distraction osteogenesis to widen the mandible. Bell WH, et al. **Br J Oral Maxillofac Surg** 1997 Feb;35(1):11–9

Reactive changes in the temporomandibular joint after mandibular midline osteodistraction. Harper RP, et al. **Br J Oral Maxillofac Surg** 1997 Feb;35(1):20–5

Callotasis lengthening: a review of some technical aspects. Maffulli N. **Bull Hosp Jt Dis** 1996;54(4):249–54 (85 ref.)

Lengthening of the lower limbs in Ollier's disease: problems related to surgery. D'Angelo G, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):279–85 **(Eng, Ita)**

Appropriate osteotomy site and number in limb lengthening. Shirai H, et al. **Clin Orthop** 1997 Mar;(336):308–17

Patient management during limb lengthening. Green SA. **Instr Course Lect** 1997;46:547–54 (7 ref.)

Prevention of equinus deformity during tibial lengthening. Comparison of passive stretching with an orthosis. Nakamura K, et al. **Int Orthop** 1996;20(6):359–62

Limb lengthening in Turner syndrome. Noonan KJ, et al. **Iowa Orthop J** 1997;17:96–101

Longitudinal deficiency of the fibula. Operative treatment [letter; comment] Maffulli N. **J Bone Joint Surg Am** 1997 May;79(5):794–5. Comment on: J Bone Joint Surg Am 1996 May;78(5):674–82.

Metacarpal lengthening after traumatic amputation of the thumb. Finsen V, et al. **J Bone Joint Surg Br** 1996 Jan; 78(1):133–6

The impact of total enteral nutrition on distraction osteogenesis in a rat model. Lumpkin CK Jr, et al. **J Bone Miner Res** 1996 Jul;11(7):962–9

Submerged intraoral device for mandibular lengthening. Diner PA, et al. **J Craniomaxillofac Surg** 1997 Jun; 25(3):116–23

Osteoplasty of the mandible by local tissues. Shvyrkov MB, et al. **J Craniomaxillofac Surg** 1995 Dec;23(6):377–81

Maxillary advancement by distraction osteogenesis using osseointegrated implants. Yamamoto H, et al. **J Craniomaxillofac Surg** 1997 Aug;25(4):186–91

Callus distraction in reconstructive foot surgery. Martin DE, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):489–506

Effect of electrical stimulation on callus maturation during callus distraction in rabbits. Huang SC. **J Formos Med Assoc** 1997 Jun;96(6):429–34

Bifocal distraction osteogenesis for mandibular defect healing: case reports. Block MS, et al. **J Oral Maxillofac Surg** 1996 Nov;54(11):1365–70

Distraction osteogenesis for correction of transverse mandibular deficiency: a preliminary report. Weil TS, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):953–60

Use of Orthofix T-Garche fixator in late-onset tibia vara. Gaudinez R, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):455–60

Femoral callotasis. Aldegheri R. **J Pediatr Orthop B** 1997 Jan;6(1):42–7

Percutaneous vs modified phemister epiphysiodesis of the lower extremity [see comments] Scott AC, et al. **Orthopedics** 1996 Oct;19(10):857–61. Comment in: Orthopedics 1997 Apr;20(4):300.

Maxillary-midface distraction in children with cleft lip and palate: a preliminary report. Cohen SR, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1421–8

Treatment for congenital synostosis of the fourth and fifth metacarpals with the hemicallotasis technique. Kawabata H, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2061–5

A CT scan technique for quantitative volumetric assessment of the mandible after distraction osteogenesis. Roth DA, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1237–47; discussion 1248–50

[Long-term results of 9 cases of elongation of the ulna in treatment of Kienböck's disease] Ducarmois P, et al. **Ann Chir Main Memb Super** 1997;16(1):16–24 (Eng. Abstr.) **(Fre)**

[The value of ultrasonographic monitoring in mandibular lengthening using the Ilizarov principle. Preliminary results] Lucas R, et al. **Rev Stomatol Chir Maxillofac** 1996 Oct;97(5):313–20 (22 ref.) (Eng. Abstr.) **(Fre)**

[Restoration of grip function in both hands after frostbite of all fingers and toes. A case report] Hofmann AK, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):50–4 (Eng. Abstr.) **(Ger)**

[Ultrasound follow-up of callus distraction--an alternative to roentgen diagnosis?] Richter D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:931–3 (Eng. Abstr.) **(Ger)**

[Bone lengthening osteotomy in malunited clavicular fracture] Peters G, et al. **Unfallchirurg** 1997 Apr; 100(4):270–3 (Eng. Abstr.) **(Ger)**

[Retrospective study on femoral neck lengthening osteotomy] Weissinger M, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan–Feb; 135(1):31–4 (Eng. Abstr.) **(Ger)**

[The author's own method of local anesthesia for skin incision around implants during limb lengthening] Rajewski F, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):155–8 (Eng. Abstr.) **(Pol)**

BONE LOSS, AGE-RELATED see **OSTEOPOROSIS**

BONE LOSS, OSTEOCLASTIC see **BONE RESORPTION**

BONE LOSS, PERIMENOPAUSAL see **OSTEOPOROSIS, POSTMENOPAUSAL**

BONE LOSS, PERIODONTAL see **ALVEOLAR BONE LOSS**

BONE LOSS, POSTMENOPAUSAL see **OSTEOPOROSIS, POSTMENOPAUSAL**

BONE MALALIGNMENT

Ulnar drift [editorial] Flatt AE. **J Hand Ther** 1996 Oct–Dec; 9(4):282–92 (24 ref.)

DIAGNOSIS

Significance and management of congenital malalignment of the big toenail. Baran R. **Cutis** 1996 Aug;58(2):181–4

PHYSIOPATHOLOGY

Skeletal malalignments of the lower quarter: correlated and compensatory motions and postures. Riegger-Krugh C, et al. **J Orthop Sports Phys Ther** 1996 Feb;23(2):164–70 (45 ref.)

Patellofemoral malalignment. Goldberg B. **Pediatr Ann** 1997 Jan;26(1):32–5 (39 ref.)

[Rotational deformities of the lower limbs in children] Lokiec F, et al. **Harefuah** 1996 Jun 2;130(11):770–4 (31 ref.) **(Heb)**

REHABILITATION

Evaluation of the effectiveness of a metacarpophalangeal ulnar deviation orthosis. Rennie HJ. **J Hand Ther** 1996 Oct-Dec;9(4):371–7

SURGERY

Significance of corrective growth of opposite physes in the surgical correction of deformity following epiphyseal injury around the knee joint. Beck A, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):38–41

THERAPY

Rotational problems in children. Staheli LT. **Instr Course Lect** 1994;43:199–209 (91 ref.)

Restoration of limb alignment in total knee arthroplasty: evaluation and methods. Jessup DE, et al. **J South Orthop Assoc** 1997 Spring;6(1):37–47

Patellofemoral malalignment. Goldberg B. **Pediatr Ann** 1997 Jan;26(1):32–5 (39 ref.)

BONE MARROW

consider also terms at MYEL-

Acute pancreatitis complicating a bone marrow harvest. Beamish N, et al. **Bone Marrow Transplant** 1997 Mar; 19(5):525–6

Malignant hyperthermia induced by general anesthesia for bone marrow harvesting. Hosoya N, et al. **Bone Marrow Transplant** 1997 Mar;19(5):509–11

Rapid detection of karyotype changes in interphase bone marrow cells by oligonucleotide primed in situ hybridization (PRINS). Wilkens L, et al. **J Pathol** 1997 Apr;181(4):368–73

Intramedullary pressure and bone marrow fat intravasation in unreamed femoral nailing. Kröpfl A, et al. **J Trauma** 1997 May;42(5):946–54

Chronic myeloid leukemia (CML): prognostic factors and survival analysis. Braga GW, et al. **Rev Paul Med** 1996 Jan-Feb;114(1):1083–90

Donor ambivalence and postdonation outcomes: implications

for living donation. Switzer GE, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1476

Pathophysiology of dysbaric osteonecrosis: a magnetic resonance imaging study [letter] Coulthard A, et al. **Undersea Hyperb Med** 1996 Jun;23(2):119-20

[An experimental study of the effect of immunomodulators on the immune response to the anatoxin components of adsorbed DPT vaccine against a background of poisoning] Karal'nik BV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct;(5):56-9 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

Flt3 ligand level reflects hematopoietic progenitor cell function in aplastic anemia and chemotherapy-induced bone marrow aplasia. Wodnar-Filipowicz A, et al. **Blood** 1996 Dec 15;88(12):4493-9

ANATOMY & HISTOLOGY

Magnetic resonance imaging of the calcaneus: preliminary assessment of trabecular bone-dependent regional variations in marrow relaxation time compared with dual X-ray absorptiometry. Guglielmi G, et al. **Acad Radiol** 1996 Apr;3(4):336-43

Prevalence of red marrow around the knee joint in adults as demonstrated on magnetic resonance imaging. Wilson AJ, et al. **Acad Radiol** 1996 Jul;3(7):550-5

Normal gadolinium-enhanced MR images of the developing appendicular skeleton: Part 2. Epiphyseal and metaphyseal marrow. Dwek JR, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):191-6

Staining and morphologic features of bone marrow hematopoietic cells in desert tortoises (Gopherus agassizii). Garner MM, et al. **Am J Vet Res** 1996 Nov;57(11):1608-15

Comparative study of skeletal response to estrogen depletion at red and yellow marrow sites in rats. Li M, et al. **Anat Rec** 1996 Jul;245(3):472-80

Useful internal standards for distinguishing infiltrative marrow pathology from hematopoietic marrow at MRI. Carroll KW, et al. **J Magn Reson Imaging** 1997 Mar-Apr; 7(2):394-8

Field strength and angle dependence of trabecular bone marrow transverse relaxation in the calcaneus. Song HK, et al. **J Magn Reson Imaging** 1997 Mar-Apr;7(2):382-8

Assessment of the magnetic field distribution in yellow and red bone marrow by the MAGSUS technique. Schick F, et al. **Magn Reson Imaging** 1996;14(5):507-19

Magnetic resonance appearance of bone marrow in the mandible at different ages. Kaneda T, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Aug;82(2):229-33

[Age-dependent MR imaging of the tibia in children up to 2 years old. The findings in children without bone marrow-relevant diseases or therapies] Kujat C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):470-4 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

Blood flow to the haemopoietic bone marrow. Iversen PO. **Acta Physiol Scand** 1997 Apr;159(4):269-76 (51 ref.)

Spectrum of tumor angiogenesis in the bone marrow of children with acute lymphoblastic leukemia. Perez-Atayde AR, et al. **Am J Pathol** 1997 Mar;150(3):815-21

Case report: the MRI diagnosis of bone marrow infarction in a child with leukaemia. Amano Y, et al. **Clin Radiol** 1997 Jul;52(7):560-2

BMEC-1: a human bone marrow microvascular endothelial cell line with primary cell characteristics. Candal FJ, et al. **Microvasc Res** 1996 Nov;52(3):221-34

CHEMISTRY

HIV type 1 RNA expression in bone marrows of patients with a spectrum of disease. Weiser B, et al. **AIDS Res Hum Retroviruses** 1996 Nov 1;12(16):1551-8

Fat embolism in orthopedic surgery: role of bone marrow fatty acid. Djelouah I, et al. **Anesth Analg** 1997 Aug; 85(2):441-3

Evaluation of bone marrow iron by magnetic resonance imaging. Isokawa M, et al. **Ann Hematol** 1997 Jun; 74(6):269-74

Bone marrow immunoregulatory peptides (myelopeptides): isolation, structure, and functional activity. Petrov RV, et al. **Biopolymers** 1997;43(2):139-46 (25 ref.)

The effect of decalcification and choice of fixative on histiocytic iron in bone marrow core biopsies. DePalma L. **Biotech Histochem** 1996 Mar;71(2):57-60

Rapid isolation of PCR-ready DNA from blood, bone marrow and cultured cells, based on paramagnetic beads. Deggerdal A, et al. **Biotechniques** 1997 Mar;22(3):554-7

Molecular remission in PML/RAR alpha-positive acute promyelocytic leukemia by combined all-trans retinoic acid and idarubicin (AIDA) therapy. Gruppo Italiano-Malattie Ematologiche Maligne dell'Adulto and Associazione Italiana di Ematologia ed Oncologia Pediatrica Cooperative Groups. Mandelli F, et al. **Blood** 1997 Aug 1;90(3):1014-21

The detection of micrometastases in the peripheral blood and bone marrow of patients with breast cancer using immunohistochemistry and reverse transcriptase polymerase chain reaction for keratin 19. Schoenfeld A, et al. **Eur J Cancer** 1997 May;33(6):854-61

Occult epithelial tumor cells detected in bone marrow by an enzyme immunoassay specific for cytokeratin 19. Höchtlen-Vollmar W, et al. **Int J Cancer** 1997 Feb 7; 70(4):396-400

T2 relaxation time of bone marrow water and lipid: correlation with serum ferritin in normal individuals. Ishijima H, et al. **J Comput Assist Tomogr** 1997 May-Jun; 21(3):506-8

Measurement of apoptosis, proliferation and three cytokines in 46 patients with myelodysplastic syndromes [see comments] Shetty V, et al. **Leuk Res** 1996 Nov-Dec; 20(11-12):891-900. Comment in: Leuk Res 1996 Nov-Dec;20(11-12):881-90.

Detection of bromisovalum from the bone marrow of skeletonized human remains: a case report with a comparison between gas chromatography/mass spectrometry (GC/MS) and high-performance liquid chromatography/mass spectrometry (LC/MS). Maeda H, et al. **Med Sci Law** 1997 Jul;37(3):248-53

Intracellular staining of Mx proteins in cells from peripheral blood, bone marrow and skin. al-Masri AN, et al. **Mol Pathol** 1997 Feb;50(1):9-14

Detection of drugs and poisons in postmortem tissues--determination of paraquat in tissues of rabbits buried underground. Ito S, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):83-8

Ontogeny of NK cells and the bone marrow microenvironment: where does IL15 fit in? Puzanov IJ, et al. **Res Immunol** 1997 Mar-Apr;148(3):195-201 (46 ref.)

Serum lactate dehydrogenase and alkaline phosphatase activities and serum cholesterol level in bone marrow blood. Cucuianu A, et al. **Rom J Intern Med** 1996 Jul-Dec; 34(3-4):173-82

Bone marrow and chelatable iron in patients with protein energy malnutrition. Sive AA, et al. **S Afr Med J** 1996 Nov;86(11):1410-3

Macrophage colony-stimulating factor levels in the plasma of bone marrow aspirate in several hematological malignancies [letter; comment] Denizot Y, et al. **Stem Cells** 1996 May;14(3):363-5. Comment on: Stem Cells 1995 Jul;13(4):421-7.

CYTOLOGY

Human megakaryoblastic proliferation and differentiation events observed by phase-contrast cinematography. Boll IT, et al. **Acta Haematol** 1997;97(3):144-52

Homing and trafficking of hemopoietic progenitor cells. Papayannopoulou T, et al. **Acta Haematol** 1997; 97(1-2):97-104 (73 ref.)

Peripheral blood mobilization of hematopoietic stem cells: cytokine-mediated regulation of adhesive interactions within the hematopoietic microenvironment. Santucci MA, et al. **Acta Haematol** 1997;97(1-2):90-6 (52 ref.)

Characterization of the molecules involved in the hematopoietic microenvironment provided by mouse stromal cell line MC3T3-G2/PA6 using a unique reporter system that analyzes the direct cell-to-cell interaction. Satoh M, et al. **Acta Haematol** 1997;98(2):95-103

Adhesive interactions in hemopoiesis. Wilson JG. **Acta Haematol** 1997;97(1-2):6-12 (97 ref.)

Prognostic impact of bone marrow karyotype in childhood acute lymphoblastic leukaemia: Swedish experiences 1986-91. Forestier E, et al. **Acta Paediatr** 1997 Aug; 86(8):819-25

Benzene-induced bone marrow cell depression caused by inhibition of the conversion of pre-interleukins-1alpha and -1beta to active cytokines by hydroquinone, a biological reactive metabolite of benzene. Niculescu R, et al. **Adv Exp Med Biol** 1996;387:329-37 (30 ref.)

Effect of age on marrow macrophage number and function. Wang CQ, et al. **Aging (Milano)** 1995 Oct;7(5):379-84

Integrin VLA-6 (alpha 6 beta 1) mediates adhesion of mouse bone marrow-derived mast cells to laminin. Fehlner-Gardiner C, et al. **Allergy** 1996 Sep;51(9):650-6

Irradiated blood components [letter; comment] Benson K, et al. **Am J Clin Pathol** 1997 Feb;107(2):251; discussion 253-4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6-11.

Residual leukemic blasts or regenerating normal precursors? The hematologist's dilemma [letter] Keshava-Prasad HS. **Am J Hematol** 1997 Jan;54(1):90-1

Flow cytometric analysis of mast cells from normal and pathological human bone marrow samples: identification and enumeration. Orfao A, et al. **Am J Pathol** 1996 Nov; 149(5):1493-9

Polymorphonuclear leukocyte transit times in bone marrow during streptococcal pneumonia. Terashima T, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L587-92

Allergen-induced increase in bone marrow progenitors in airway hyperresponsive dogs: regulation by a serum hemopoietic factor. Inman MD, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):305-11

Increased levels of CD34+ hemopoietic progenitor cells in atopic subjects. Sehmi R, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):645-55

Phagocytosis of small carbon particles (PM10) by alveolar macrophages stimulates the release of polymorphonuclear leukocytes from bone marrow. Terashima T, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1441-7

Meniscal repair supplemented with exogenous fibrin clot and autogenous cultured marrow cells in the goat model. Port J, et al. **Am J Sports Med** 1996 Jul-Aug;24(4):547-55

Characterization of eosinophil progenitor cells in feline bone marrow. Young KM, et al. **Am J Vet Res** 1997 Apr; 58(4):348-53

Subpopulations of stromal cells from long-term human bone marrow cultures: ontogeny of progenitor cells and expression of growth hormone receptors. Lincoln DT, et al. **Anat Histol Embryol** 1997 Mar;26(1):11-28

Immunotyping of blasts in human bone marrow. Oertel J, et al. **Ana Hematol** 1996 Mar;72(3):125-9

Marrow-mesenchyme connections in the fetal and newborn tympanum. A new entity. Linthicum FH Jr, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):466-70

Protection and rescue from 2',3'-dideoxypyrimidine nucleoside analog toxicity by hemin in human bone marrow progenitor cells. Fowler DA, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):191-5

Storage histiocytes and hemophagocytosis: a common finding in the bone marrow of patients with active systemic lupus erythematosus. Morales-Polanco M, et al. **Arch Med Res** 1996 Spring;27(1):57-62

A novel culture system to generate osteoclasts and bone resorption using porcine bone marrow cells: role of M-CSF. Scheven BA, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):231-5

Stem cell factor protects bone marrow-derived cultured mast cells (BMCMC) from cytocidal effect of nitric oxide secreted by fibroblasts in murine BMCMC-fibroblast coculture. Park SJ, et al. **Biochem Mol Biol Int** 1996 Nov; 40(4):721-9

Effects of low-intensity AC and/or DC electromagnetic fields on cell attachment and induction of apoptosis. Blumenthal NC, et al. **Bioelectromagnetics** 1997; 18(3):264-72

Effects of alpha-galactosylceramides on bone marrow cells in vitro and hematopoiesis in vivo. Motoki K, et al. **Biol Pharm Bull** 1996 Jul;19(7):952-5

Hydrocortisone regulates types I and III collagen gene expression and collagen synthesis in human marrow stromal cells. Fernández M, et al. **Biol Res** 1997;30(2):85-90

Contribution of monocyte/macrophage differentiation to the stromal layer in human long-term bone marrow cultures. Wilkins BS, et al. **Biologicals** 1996 Dec;24(4):313-8

Heterogeneity of expression of CD68 and other macrophage-associated antigens in human long-term bone marrow culture. Wilkins BS, et al. **Biologicals** 1996 Dec; 24(4):333-7

In vitro induction of osteogenic differentiation from non-osteogenic mesenchymal cells. Lecoeur L, et al. **Biomaterials** 1997 Jul;18(14):989-93

Evaluation of implant materials (hydroxyapatite, glass-ceramics, titanium) in rat bone marrow stromal cell culture. Ozawa S, et al. **Biomaterials** 1996 Jan;17(1):23-9

Viable bone formation in porous hydroxyapatite: marrow cell-derived in vitro bone on the surface of ceramics. Yoshikawa T, et al. **Biomed Mater Eng** 1997;7(1):49-58

Granulocytic differentiation of normal hematopoietic precursor cells induced by transcription factor PU.1 correlates with negative regulation of the c-myb promoter. Bellon T, et al. **Blood** 1997 Sep 1;90(5):1828-39

Bone marrow stroma-derived prolactin is involved in basal and platelet-activating factor-stimulated in vitro erythropoiesis. Bellone G, et al. **Blood** 1997 Jul 1;90(1):21-7

Ig D(H) gene segment transcription and rearrangement before surface expression of the pan-B-cell marker CD19 in normal human bone marrow. Bertrand FE 3rd, et al. **Blood** 1997 Jul 15;90(2):736-44

Sustained, retransplantable, multilineage engraftment of highly purified adult human bone marrow stem cells in vivo. Civin CI, et al. **Blood** 1996 Dec 1;88(11):4102-9

Transplantation and gene transfer of the human glucocerebrosidase gene into immunoselected primate CD34+Thy-1+ cells. Donahue RE, et al. **Blood** 1996 Dec 1;88(11):4166-72

Differential maintenance of primitive human SCID-repopulating cells, clonogenic progenitors, and long-term culture-initiating cells after incubation on human bone marrow stromal cells. Gan OI, et al. **Blood** 1997 Jul 15;90(2):641-50

Functional comparison of spleen dendritic cells and dendritic cells cultured in vitro from bone marrow precursors. Garrigan K, et al. **Blood** 1996 Nov 1;88(9):3508-12

Osteogenic growth peptide increases blood and bone marrow cellularity and enhances engraftment of bone marrow transplants in mice. Gurevitch O, et al. **Blood** 1996 Dec 15;88(12):4719-24

Direct growth suppression of myeloid bone marrow progenitor cells but not cord blood progenitors by human cytomegalovirus in vitro. Holberg-Petersen M, et al. **Blood** 1996 Oct 1;88(7):2510-6

Contact between human bone marrow stromal cells and B lymphocytes enhances very late antigen-4/vascular cell adhesion molecule-1-independent tyrosine phosphorylation of focal adhesion kinase, paxillin, and ERK2 in stromal cells. Jarvis LJ, et al. **Blood** 1997 Aug 15;90(4):1626-35

Orderly process of sequential cytokine stimulation is required for activation and maximal proliferation of primitive human bone marrow CD34+ hematopoietic progenitor cells residing in G0. Ladd AC, et al. **Blood** 1997 Jul 15; 90(2):658-68

Population size and radiosensitivity of murine hematopoietic

endogenous long-term repopulating cells. McCarthy KF. **Blood** 1997 Feb 1;89(3):834–41

Transendothelial migration of CD34+ and mature hematopoietic cells: an in vitro study using a human bone marrow endothelial cell line. Möhle R, et al. **Blood** 1997 Jan 1;89(1):72–80

In vitro maintenance of highly purified, transplantable hematopoietic stem cells. Moore KA, et al. **Blood** 1997 Jun 15;89(12):4337–47

Primitive hematopoietic cells in murine bone marrow express the CD34 antigen. Morel F, et al. **Blood** 1996 Nov 15; 88(10):3774–84

Retroviral-mediated transfer of the green fluorescent protein gene into murine hematopoietic cells facilitates scoring and selection of transduced progenitors in vitro and identification of genetically modified cells in vivo. Persons DA, et al. **Blood** 1997 Sep 1;90(5):1777–86

Primitive long-term culture initiating cells (LTC-ICs) in granulocyte colony-stimulating factor mobilized peripheral blood progenitor cells have similar potential for ex vivo expansion as primitive LTC-ICs in steady state bone marrow. Prosper F, et al. **Blood** 1997 Jun 1;89(11):3991–7

Thrombopoietin, but not erythropoietin, directly stimulates multilineage growth of primitive murine bone marrow progenitor cells in synergy with early acting cytokines: distinct interactions with the ligands for c-kit and FLT3. Ramsfjell V, et al. **Blood** 1996 Dec 15;88(12):4481–92

Functional and phenotypic characterization of cord blood and bone marrow subsets expressing FLT3 (CD135) receptor tyrosine kinase. Rappold I, et al. **Blood** 1997 Jul 1;90(1):111–25

Quantitative analysis of cobblestone area-forming cells in bone marrow of patients with aplastic anemia by limiting dilution assay. Schrezenmeier H, et al. **Blood** 1996 Dec 15;88(12):4474–80

Augmented production of interleukin-6 by normal human osteoblasts in response to CD34+ hematopoietic bone marrow cells in vitro. Taichman RS, et al. **Blood** 1997 Feb 15;89(4):1165–72

Cycle initiation and colony formation in culture by murine marrow cells with long-term reconstituting potential in vivo. Trevisan M, et al. **Blood** 1996 Dec 1;88(11):4149–58

The characterization, molecular cloning, and expression of a novel hematopoietic cell antigen from CD34+ human bone marrow cells. Uchida N, et al. **Blood** 1997 Apr 15; 89(8):2706–16

Primitive human hematopoietic cells are enriched in cord blood compared with adult bone marrow or mobilized peripheral blood as measured by the quantitative in vivo SCID-repopulating cell assay. Wang JC, et al. **Blood** 1997 Jun 1;89(11):3919–24

Fc gammaRIII-mediated regulation of hematopoiesis in murine bone marrow cells by interleukin-3 and CD95 (Fas/Apo-1). Yoshikawa H, et al. **Blood** 1997 Sep 1; 90(5):1911–9

Bone marrow and thymus expression of interferon-gamma results in severe B-cell lineage reduction, T-cell lineage alterations, and hematopoietic progenitor deficiencies. Young HA, et al. **Blood** 1997 Jan 15;89(2):583–95

Immunohistochemical analysis of extracellular matrix components and cytoskeletal products of bone marrow stromal cells. Lisignoli G, et al. **Boll Soc Ital Biol Sper** 1996 Jan-Feb;72(1-2):9–14

The function of adipocytes in the bone marrow stroma: an update. Gimble JM, et al. **Bone** 1996 Nov;19(5):421–8 (108 ref.)

Bone remodeling alterations in myelodysplastic syndrome. Mellibovsky L, et al. **Bone** 1996 Oct;19(4):401–5

Osteogenesis by bone marrow stromal cells maintained on type I collagen matrix gels in vivo. Mizuno M, et al. **Bone** 1997 Feb;20(2):101–7

Ovariectomy and orchidectomy induce a transient increase in the osteoclastogenic potential of bone marrow cells in the mouse. Most W, et al. **Bone** 1997 Jan;20(1):27–30

Bone marrow capacity for bone cells and trabecular bone turnover in immobilized tibia after sciatic neurectomy in mice. Sakai A, et al. **Bone** 1996 May;18(5):479–86

Systemic administration of an anabolic dose of PGE2 in young rats increases the osteogenic capacity of bone marrow. Weinreb M, et al. **Bone** 1997 Jun;20(6):521–6

The efficiency of tumor cell purging using immunomagnetic CD34+ cell separation systems. Roots-Weiss A, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1239–46

Successful engraftment of allogeneic CD34-enriched marrow cell transplantation from HLA-mismatched parental donors. Yabe H, et al. **Bone Marrow Transplant** 1996 Jun; 17(6):985–91

In vitro expansion and characterization of dendritic cells derived from human bone marrow CD34+ cells. Ye Z, et al. **Bone Marrow Transplant** 1996 Nov;18(5):997–1008

Comparison of marrow vs blood-derived stem cells for autografting in previously untreated multiple myeloma. Raje N, et al. **Br J Cancer** 1997;75(11):1684–9

The bone marrow aspirate of healthy subjects [letter; comment] den Ottolander GJ. **Br J Haematol** 1996 Dec; 95(3):574–5. Comment on: Br J Haematol 1996 Jul;94(1):206–9.

Murine marrow stromal response to myelotoxic agents in vitro. Hauser SP, et al. **Br J Haematol** 1996 Dec; 95(4):596–604

Factors required for bone marrow stromal fibroblast colony formation in vitro. Kuznetsov SA, et al. **Br J Haematol** 1997 Jun;97(3):561–70

B-B4 monoclonal antibody and identification of human bone marrow plasma cells [letter] Palacios MF, et al. **Br J Haematol** 1997 Mar;96(3):655–7

Myeloid differentiation is impaired in transgenic mice with targeted expression of a dominant negative form of retinoid X receptor beta. Sunaga S, et al. **Br J Haematol** 1997 Jan; 96(1):19–30

Selective growth of freshly isolated human breast epithelial cells cultured at low concentrations in the presence or absence of bone marrow cells. Emerman JT, et al. **Breast Cancer Res Treat** 1996;41(2):147–59

Increased hematopoietic progenitor cell maintenance in long-term bone marrow cultures containing minimal numbers of contaminating breast cancer cells. Mann SL, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):115–21

Species differences in growth requirements for bone marrow stromal fibroblast colony formation In vitro. Kuznetsov S, et al. **Calcif Tissue Int** 1996 Oct;59(4):265–70

Effect of age and ovariectomy on fibroblastic colony-forming unit numbers in rat bone marrow. Scutt A, et al. **Calcif Tissue Int** 1996 Oct;59(4):309–10

The in vivo role of bone marrow fibroblast-like stromal cells [editorial] Simmons DJ. **Calcif Tissue Int** 1996 Mar; 58(3):129–32

Stimulation of osteoclast-like cell formation by Pasteurella multocida toxin from hemopoietic progenitor cells in mouse bone marrow cultures. Jutras I, et al. **Can J Vet Res** 1996 Jan;60(1):34–9

Bone marrow stromal cell defects and 1 alpha,25-dihydroxyvitamin D3 deficiency underlying human myeloid leukemias. Blazsek I, et al. **Cancer Detect Prev** 1996;20(1):31–42

Efficiency of retroviral transduction into hematopoietic cells by cocultivation procedure does not correlate with viral titer. Bagnis C, et al. **Cancer Gene Ther** 1997 Jan-Feb; 4(1):5–8

Autologous and allogeneic blood stem cell transplantation: potential advantage of blood-over marrow-derived stem cell grafts. Körbling M. **Cancer Invest** 1997;15(2):127–37 (77 ref.)

Adhesion of multiple myeloma peripheral blood B cells to bone marrow fibroblasts: a requirement for CD44 and alpha4beta7. Masellis-Smith A, et al. **Cancer Res** 1997 Mar 1;57(5):930–6

Control of thrombocytopoiesis: current state of the art. Hoffman R, et al. **Cancer Treat Res** 1995;80:25–49 (144 ref.)

Intestinal epithelial cell line induction of T cell differentiation from bone marrow precursors. Maric D, et al. **Cell Immunol** 1996 Sep 15;172(2):172–9

T cell progenitors in the murine fetal liver: differences from those in the adult bone marrow. Watanabe Y, et al. **Cell Immunol** 1997 Apr 10;177(1):18–25

Selective stimulation of granulopoiesis in vitro by established bone marrow stromal cells. Iguchi A, et al. **Cell Struct Funct** 1997 Jun;22(3):357–64

Culture expanded canine mesenchymal stem cells possess osteochondrogenic potential in vivo and in vitro. Kadiyala S, et al. **Cell Transplant** 1997 Mar-Apr;6(2):125–34

Circannual variation of cell proliferation in lymphoid organs and bone marrow of BDF1 male mice on three lighting regimens. Haus E, et al. **Chronobiol Int** 1997 Jul; 14(4):347–62

Control of the sizes and contents of precursor B cell repertoires in bone marrow. Melchers F. **Ciba Found Symp** 1997;204:172–82; discussion 182–6 (24 ref.)

Differential influences of gold sodium thiomalate and bucillamine on the generation of CD14+ monocyte-lineage cells from bone marrow of rheumatoid arthritis patients. Hirohata S, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):290–5

Analysis of the developmental potential of conditionally immortal marrow-derived mesenchymal progenitor cells isolated from the H-2Kb-tsA58 transgenic mouse. Dennis JE, et al. **Connect Tissue Res** 1996;35(1-4):93–9

Automatic analysis of growth onset, growth rate and colony size of individual bone marrow progenitors. Boezeman J, et al. **Cytometry** 1997 Aug 1;28(4):305–10

Flow cytometric analysis of micronucleus induction in rat bone marrow polychromatic erythrocytes by 1,2;3,4-diepoxybutane, 3,4-epoxy-1-butene, and 1,2-epoxybutane-3,4-diol. Lähdetie J, et al. **Cytometry** 1997 Jul 1;28(3):228–35

Applying watershed algorithms to the segmentation of clustered nuclei. Malpica N, et al. **Cytometry** 1997 Aug 1;28(4):289–97

Pituitary adenylate cyclase activating polypeptide (PACAP) and vasoactive intestinal peptide (VIP) stimulate interleukin-6 production through the third subtype of PACAP/VIP receptor in rat bone marrow-derived stromal cells. Cai Y, et al. **Endocrinology** 1997 Jun;138(6):2515–20

Regulation of osteoclastogenesis by antisense oligodeoxynucleotides specific to zinc finger nuclear transcription factors Egr-1 and WT1 in rat bone marrow culture system. Kukita T, et al. **Endocrinology** 1997 Oct; 138(10):4384–9

Fibroblast growth factor-2 supports ex vivo expansion and maintenance of osteogenic precursors from human bone marrow. Martin I, et al. **Endocrinology** 1997 Oct; 138(10):4456–62

Thrombopoietin inhibits in vitro osteoclastogenesis from murine bone marrow cells. Wakikawa T, et al. **Endocrinology** 1997 Oct;138(10):4160–6

Osteopontin expression by osteoclast and osteoblast progenitors in the murine bone marrow: demonstration of its requirement for osteoclastogenesis and its increase after ovariectomy. Yamate T, et al. **Endocrinology** 1997 Jul; 138(7):3047–55

Distribution of lymphocyte subsets in bone marrow and peripheral blood is associated with haptoglobin type. Binding of haptoglobin to the B-cell lectin CD22. Langlois M, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar; 35(3):199–205

Adult bone marrow contains precursors for CD5+ B cells. Huang CA, et al. **Eur J Immunol** 1996 Oct;26(10):2537–40

P-selectin glycoprotein ligand-1 mediates rolling of mouse bone marrow-derived mast cells on P-selectin but not efficiently on E-selectin. Steegmaier M, et al. **Eur J Immunol** 1997 Jun;27(6):1339–45

The actin binding domain of the epidermal growth factor receptor is required for EGF-stimulated tissue invasion. van der Heyden MA, et al. **Exp Cell Res** 1997 Aug 1; 234(2):521–6

The influence of donor specific vertebral body derived bone marrow cell infusion on canine islet allograft survival without irradiation conditioning of the recipient. Brendel MD, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:129–32

The MS-5 murine stromal cell line and hematopoietic growth factors synergize to support the megakaryocytic differentiation of embryonic stem cells. Berthier R, et al. **Exp Hematol** 1997 Jun;25(6):481–90

Differences in CD34+ cell subpopulations between human bone marrow and "mobilized" peripheral blood as determined with counterflow centrifugal elutriation. Chang Q, et al. **Exp Hematol** 1997 May;25(5):423–31

Hematopoietic precursor cell exhaustion is a cause of proliferative defect in primitive hematopoietic stem cells (PHSC) after chemotherapy. Gardner RV, et al. **Exp Hematol** 1997 Jun;25(6):495–501

Donor-to-donor variability in the expansion potential of human bone marrow cells is reduced by accessory cells but not by soluble growth factors. Koller MR, et al. **Exp Hematol** 1996 Nov;24(13):1484–93

Efficiency of human HLA-mismatched CD34+ cells from unrelated donors in establishing in vitro hematopoiesis in allogeneic long-term marrow cultures. La Russa VF, et al. **Exp Hematol** 1996 Nov;24(13):1475–83

Nontransformed colony-derived stromal cell lines from normal human marrows. III. The maintenance of hematopoiesis from CD34+ cell populations. Li J, et al. **Exp Hematol** 1997 Jul;25(7):582–91

CD3 gamma, CD3 delta, and CD3 zeta mRNA in adult human marrow hematopoietic progenitors correlates with surface CD2 and CD7 expression. Long H, et al. **Exp Hematol** 1996 Oct;24(12):1402–8

Norepinephrine protects mice from acute lethal doses of carboplatin. Maestroni GJ, et al. **Exp Hematol** 1997 Jun; 25(6):491–4

Effects of vesnarinone on the bone marrow stromal cell-dependent proliferation and differentiation of HL60 cells in vitro. Nabeshima R, et al. **Exp Hematol** 1997 Jun; 25(6):509–15

Simultaneous administration of TPO and G-CSF after cytoreductive treatment of rhesus monkeys prevents thrombocytopenia, accelerates platelet and red cell reconstitution, alleviates neutropenia, and promotes the recovery of immature bone marrow cells. Neelis KJ, et al. **Exp Hematol** 1997 Sep;25(10):1084–93

Expression of B cell markers on SR-4987 cells derived from murine bone marrow stroma. Pessina A, et al. **Exp Hematol** 1997 Jun;25(6):536–41

Stem cell factor activates STAT-5 DNA binding in IL-3-derived bone marrow mast cells. Ryan JJ, et al. **Exp Hematol** 1997 Apr;25(4):357–62

Prelymphomatous B cell hyperplasia in the bone marrow of interleukin-7 transgenic mice: precursor B cell dynamics, microenvironmental organization and osteolysis. Valenzona HO, et al. **Exp Hematol** 1996 Nov;24(13):1521–9

Effect of flt3 ligand on in vitro growth and expansion of colony-forming bone marrow cells from patients with aplastic anemia. Wodnar-Filipowicz A, et al. **Exp Hematol** 1997 Jul;25(7):573–81

Curcumin, a compound with anti-inflammatory and anti-oxidant properties, down-regulates chemokine expression in bone marrow stromal cells. Xu YX, et al. **Exp Hematol** 1997 May;25(5):413–22

Comparative study of hemopoietic precursors from fetal and adult bone marrow: utilization of stem cells derived from miscarriages. Michejda M, et al. **Fetal Diagn Ther** 1996 Nov-Dec;11(6):373–82

Developmental regulation of alpha 1,3-fucosyltransferase expression in CD34 positive progenitors and maturing myeloid cells isolated from normal human bone marrow. Le Marer N, et al. **Glycobiology** 1997 Apr;7(3):357–65

Characterization of the biophysical properties of human erythroblasts as a preliminary step to the isolation of fetal erythroblasts from maternal peripheral blood for non invasive prenatal genetic investigation. Sitar G, et al. **Haematologica** 1997 Jan-Feb;82(1):5–10

Differences in platelet count and size between marrow and peripheral blood. Aliberti G, et al. **Haemostasis** 1996 Sep-Oct;26(5):276–83

Neutron RBEs for cytopenia and repopulation of stroma and hematopoietic stem cells: mathematical models of marrow cell kinetics. Jones TD, et al. **Health Phys** 1997 Apr; 72(4):530–43

Comparison of T cell depletion strategies from bone marrow, umbilical cord and peripheral blood using five separation systems. Feugier P, et al. **Hematol Cell Ther** 1997 Apr; 39(2):67–73

Transduction and expression of the MDR gene in CD34+ cells from marrow and peripheral blood. Hesdorffer C, et al. **Hematol Cell Ther** 1996 Apr;38(2):210

The ex vivo expansion capacity of normal human bone marrow cells is dependent on experimental conditions: role of the cell concentration, serum and CD34+ cell selection in stroma-free cultures. Poloni A, et al. **Hematol Cell Ther** 1997 Apr;39(2):49–58

Human bone marrow fibroblasts—an overview of their characterization, proliferation and inflammatory mediator production. Rougier F, et al. **Hematol Cell Ther** 1996 Jul; 38(3):241–6 (39 ref.)

Description of primordial germ cells, oogonia, oocytes and embryo-like growth in squash preparations of tissues from hematological malignancies. Logothetou-Rella H. **Histol Histopathol** 1996 Oct;11(4):965–84

Expression of differentiation antigens and adhesion molecules on CD34+ cells in peripheral blood and bone marrow after chemotherapy followed by administration of granulocyte colony stimulating factor. Masauzi N. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):771–83

Human B-cell progenitors and bone marrow microenvironment. Campana D, et al. **Hum Cell** 1996 Dec; 9(4):317–22 (30 ref.)

LacZ and interleukin-3 expression in vivo after retroviral transduction of marrow-derived human osteogenic mesenchymal progenitors. Allay JA, et al. **Hum Gene Ther** 1997 Aug 10;8(12):1417–27

Capture and expansion of bone marrow-derived mesenchymal progenitor cells with a transforming growth factor-beta1-von Willebrand's factor fusion protein for retrovirus-mediated delivery of coagulation factor IX. Gordon EM, et al. **Hum Gene Ther** 1997 Jul 20; 8(11):1385–94

Systemic delivery of human growth hormone or human factor IX in dogs by reintroduced genetically modified autologous bone marrow stromal cells. Hurwitz DR, et al. **Hum Gene Ther** 1997 Jan 20;8(2):137–56

PU.1 functions in a cell-autonomous manner to control the differentiation of multipotential lymphoid-myeloid progenitors. Scott EW, et al. **Immunity** 1997 Apr; 6(4):437–47

Galectin-3 inhibits granulocyte-macrophage colony-stimulating factor (GM-CSF)-driven rat bone marrow cell proliferation and GM-CSF-induced gene transcription. Krugluger W, et al. **Immunobiology** 1997 Jun; 197(1):97–109

Increase of eosinophilic cell population in bone marrow of rats by immunization with Ascaris suum antigen. Nittoh T, et al. **Immunol Invest** 1997 Jun;26(4):439–51

Bone marrow-derived macrophage lines and immortalized cloned macrophage and dendritic cells support priming of Borrelia burgdorferi--specific T cell responses in vitro and/or in vivo. Altenschmidt U, et al. **Immunol Lett** 1996 Apr;50(1-2):41–9

Circadian cell kinetics in humans. Aspects related to cancer chemotherapy. Smaaland R, et al. **In Vivo** 1995 Nov-Dec; 9(6):529–37 (91 ref.)

Modulation of endotoxin-induced histamine synthesis by cytokines in mouse bone marrow-derived macrophages. Takamatsu S, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S91–2

Bone marrow progenitors in allergic airways diseases: studies in canine and human models. Denburg JA, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):181–3

Spontaneous degranulation of cultured bone-marrow-derived immature mast cells from X-linked immunodeficient (Xid) mice. Dvorak AM, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):118–25

Conditioned media obtained from a human mastocytosis cell strain induce mast cells expressing chymase but not tryptase from human progenitors. Li L, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):289–90

Direct evidence for the commitment of hematopoietic stem cells to T, B and myeloid lineages in murine fetal liver. Kawamoto H, et al. **Int Immunol** 1997 Jul;9(7):1011–9

The use of bone-marrow-derived fibroblastoid cells and fresh bone marrow in the treatment of bone defects: an experimental study. Krzymanski G, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):55–60

Limiting dilution analysis of T-cell progenitors in the bone marrow of thymic lymphoma-susceptible B10 and -resistant C3H mice after fractionated whole-body X-irradiation. Kamisaku H, et al. **Int J Radiat Biol** 1997 Aug;72(2):191–9

Effects of recombinant human bone morphogenetic protein-2 on human bone marrow cells cultured with various biomaterials. Kim KJ, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):279–85

In vitro bone formation by rat marrow cell culture. Ohgushi H, et al. **J Biomed Mater Res** 1996 Nov;32(3):333–40

Osteogenic differentiation of cultured marrow stromal stem cells on the surface of bioactive glass ceramics. Ohgushi H, et al. **J Biomed Mater Res** 1996 Nov;32(3):341–8

Establishment and characterization of conditionally immortalized stromal cell lines from a temperature-sensitive T-Ag transgenic mouse. Feuerbach D, et al. **J Bone Miner Res** 1997 Feb;12(2):179–90

Isolation and characterization of osteoblast precursor cells from human bone marrow. Rickard DJ, et al. **J Bone Miner Res** 1996 Mar;11(3):312–24

Bone marrow interface: preferential attachment of an osteoblastic marrow stromal cell line. Benayahu D, et al. **J Cell Biochem** 1995 Oct;59(2):151–60

Dexamethasone regulation of marrow stromal-derived osteoblastic cells. Fried A, et al. **J Cell Biochem** 1996 Sep 15;62(4):476–83

Phenotypic expression of marrow cells when grown on various substrata. Fried A, et al. **J Cell Biochem** 1996 May; 61(2):246–254

Opposing effects on mitochondrial membrane potential by malonate and levamisole, whose effect on cell-mediated mineralization is antagonistic. Klein BY, et al. **J Cell Biochem** 1996 Jan;60(1):139–47

Osteoclast precursors in bone marrow and peritoneal cavity. Hayashi S, et al. **J Cell Physiol** 1997 Mar;170(3):241–7

Pressure regulates osteoclast formation and MCSF expression in marrow culture. Rubin J, et al. **J Cell Physiol** 1997 Jan; 170(1):81–7

Properties of primary murine stroma induced by macrophage colony-stimulating factor. Yamada M, et al. **J Cell Physiol** 1997 Oct;173(1):1–9

A novel bone marrow frozen section assay for studying hematopoietic interactions in situ: the role of stromal bone marrow macrophages in erythroblast binding. Barbé E, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2937–45

Micropreparation of hemopoietic stem cells from the mouse bone marrow suspension by gravitational field-flow fractionation. Urbánková E, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):449–52

Responsiveness to recombinant human erythropoietin (rh-Epo) of marrow erythroid progenitors (CFU-E and BFU-E) from B-chronic lymphocytic leukemia (B-CLL). Tsatalas C, et al. **J Exp Clin Cancer Res** 1997 Jun; 16(2):163–70

Ordering of human bone marrow B lymphocyte precursors by single-cell polymerase chain reaction analyses of the rearrangement status of the immunoglobulin H and L chain gene loci. Ghia P, et al. **J Exp Med** 1996 Dec 1; 184(6):2217–29

Isolation of the most immature population of murine fetal thymocytes that includes progenitors capable of generating T, B, and myeloid cells. Hattori N, et al. **J Exp Med** 1996 Nov 1;184(5):1901–8

Preferential proliferation of murine colony-forming units in culture in a chemically defined condition with a macrophage colony-stimulating factor-negative stromal cell clone. Takakura N, et al. **J Exp Med** 1996 Dec 1; 184(6):2301–9

Overexpression of bone morphogenic protein (BMP)-4 mRNA in gastric cancer cell lines of poorly differentiated type. Katoh M, et al. **J Gastroenterol** 1996 Feb;31(1):137–9

Optimization of CD34+ cell selection using immunomagnetic beads: implications for use in cryopreserved peripheral blood stem cell collections. Farley TJ, et al. **J Hematother** 1997 Feb;6(1):53–60

Myeloid progenitors in remission bone marrow in patients with malignant blood diseases: clues for slow hematopoietic regeneration after ABMT? Hokland P, et al. **J Hematother** 1996 Jun;5(3):279–88

The effects of Flk-2/flt3 ligand as compared with c-kit ligand on short-term and long-term proliferation of CD34+ hematopoietic progenitors elicited from human fetal liver, umbilical cord blood, bone marrow, and mobilized peripheral blood. Shapiro F, et al. **J Hematother** 1996 Dec;5(6):655–62

Effect of hypothermia on the merocyanine 540-mediated purging of hematopoietic cells. Yamazaki T, et al. **J Hematother** 1997 Feb;6(1):31–9

In situ detection of individual transplanted bone marrow cells using FISH on sections of paraffin-embedded whole murine femurs. Nilsson SK, et al. **J Histochem Cytochem** 1996 Sep;44(9):1069–74

IL-4 and insulin-like growth factor-I inhibit the decline in Bcl-2 and promote the survival of IL-3-deprived myeloid progenitors. Minshall C, et al. **J Immunol** 1997 Aug 1; 159(3):1225–32

IL-15 can substitute for the marrow microenvironment in the differentiation of natural killer cells. Puzanov IJ, et al. **J Immunol** 1996 Nov 15;157(10):4282–5

Suppressive effects of recombinant human monokine induced by IFN-gamma (rHuMig) chemokine on the number of committed and primitive hemopoietic progenitors in liquid cultures of CD34+ human bone marrow cells. Schwartz GN, et al. **J Immunol** 1997 Jul 15;159(2):895–904

Murine bone marrow-derived macrophages constitute feeder cells for human B cell hybridomas. Hoffmann P, et al. **J Immunol Methods** 1996 Sep 13;196(1):85–91

Imbalance in production of cytokines by bone marrow stromal cells following cytomegalovirus infection. Lagneaux L, et al. **J Infect Dis** 1996 Nov;174(5):913–9

Isolation, characterization, and biologic features of bone marrow endothelial cells. Almeida-Porada G, et al. **J Lab Clin Med** 1996 Oct;128(4):399–407

Characterization of clonally derived, spontaneously transformed bone marrow macrophage cell lines from lipopolysaccharide hyporesponsive LPS(d) and normal LPS(n) mice. Monner DA, et al. **J Leukoc Biol** 1997 Apr; 61(4):469–80

Porcine bone marrow myeloid cells: phenotype and adhesion molecule expression. Summerfield A, et al. **J Leukoc Biol** 1997 Aug;62(2):176–85

Effects of lipidic mediators on the growth of human myeloid and erythroid marrow progenitors. Dupuis F, et al. **J Lipid Mediat Cell Signal** 1997 Jul;16(3):117–25 (33 ref.)

Enhanced expression of CD14 antigen on myeloid lineage cells derived from the bone marrow of patients with severe rheumatoid arthritis. Tomita T, et al. **J Rheumatol** 1997 Mar;24(3):465–9

Effect of amiodarone on cytokine release and on enzyme activities of mouse alveolar macrophages, bone marrow macrophages, and blood monocytes. Futamura Y. **J Toxicol Sci** 1996 May;21(2):125–34

Protective effect of recombinant human leukemia inhibitory factor against thrombocytopenia in carboplatin-treated mice. Akiyama Y, et al. **Jpn J Cancer Res** 1997 Jun; 88(6):584–9

Macrophage inflammatory protein-1 alpha (LD78) expressed in human bone marrow: its role in regulation of hematopoiesis and osteoclast recruitment. Kukita T, et al. **Lab Invest** 1997 Mar;76(3):399–406

Characterization of a newly established human bone marrow endothelial cell line: distinct adhesive properties for hematopoietic progenitors compared with human umbilical vein endothelial cells. Schweitzer KM, et al. **Lab Invest** 1997 Jan;76(1):25–36

A comparison of the effect of the 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase inhibitors simvastatin, lovastatin and pravastatin on leukaemic and normal bone marrow progenitors. Newman A, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):533–7

VLA-4-mediated interactions between normal human hematopoietic progenitors and stromal cells. Oostendorp RA, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):423–35 (94 ref.)

Cellular interactions among marrow stromal and normal/neoplastic pre-B- and B-lymphoblastic cells. Patrick CW Jr, et al. **Leuk Lymphoma** 1996 Jul; 22(3-4):205–19 (117 ref.)

In vitro culture studies of childhood myelodysplastic syndrome: establishment of the cell line MUTZ-1. Steube KG, et al. **Leuk Lymphoma** 1997 Apr;25(3-4):345–63

Regulation of glucose transport by interleukin-3 in growth factor-dependent and oncogene-transformed bone marrow-derived cell lines. Ahmed N, et al. **Leuk Res** 1997 Jul;21(7):609–18

Multiparameter phenotype mapping of normal and post-chemotherapy B lymphopoiesis in pediatric bone marrow. Dworzak MN, et al. **Leukemia** 1997 Aug; 11(8):1266–73

Role of the stem cell factor (SCF) receptor and the alternative forms of its ligand (SCF) in the induction of long-term growth by stroma cells. Friel J, et al. **Leukemia** 1997 Apr;11 Suppl 3:493–5

The combined effects of all-trans retinoic acid and TGF-beta on the initial proliferation of normal human bone marrow progenitor cells. Lardon F, et al. **Leukemia** 1996 Dec; 10(12):1937–43

Regulation of megakaryocytopoiesis by thrombopoietin and stromal cells. Nagata Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:435–8

Does transmembrane communication through gap junctions enable stem cells to overcome stromal inhibition? Rosendaal M, et al. **Leukemia** 1997 Aug;11(8):1281–9

Myeloproliferative disease and myelodysplastic syndrome induced by transplantation of bone marrow cells expressing mutant p53. Shounan Y, et al. **Leukemia** 1997 Oct; 11(10):1641–9

High proliferative potential colony-forming cells. Bertoncello I, et al. **Methods Mol Biol** 1997;75:265–72 (17 ref.)

Human long-term bone marrow culture. Clark BR, et al. **Methods Mol Biol** 1997;75:249–56 (11 ref.)

Culturing primitive hemopoietic cells. Long-term mouse marrow cultures and the establishment of factor-dependent (FDCP-Mix) hemopoietic cell lines. Spooncer E, et al. **Methods Mol Biol** 1997;75:209–19 (8 ref.)

Murine bone marrow-derived macrophages. Stanley ER. **Methods Mol Biol** 1997;75:301–4 (6 ref.)

Production of human and murine eosinophils in vitro and assay for eosinophil differentiation factors. Strath M, et al. **Methods Mol Biol** 1997;75:273–87 (25 ref.)

Long-term B-lymphoid cultures from murine bone marrow establishment and cloning by using stromal cell line AC 6.21. Whitlock CA, et al. **Methods Mol Biol** 1997;75:231–48 (13 ref.)

Pre-thymic transcription of TCR genes by adult murine bone marrow cells. Wang TG, et al. **Mol Immunol** 1996 Aug; 33(11-12):957–64

Peroxisome proliferator-activated receptor-gamma activation by thiazolidinediones induces adipogenesis in bone marrow stromal cells. Gimble JM, et al. **Mol Pharmacol** 1996 Nov;50(5):1087–94

Flow cytometric analysis of micronucleated reticulocytes in mouse bone marrow. Dertinger SD, et al. **Mutat Res** 1997 May 23;390(3):257–62

Identification of primitive human hematopoietic cells capable of repopulating NOD/SCID mouse bone marrow: implications for gene therapy. Larochelle A, et al.

Nat Med 1996 Dec;2(12):1329–37

Lifetime of plasma cells in the bone marrow [letter] Manz RA, et al. **Nature** 1997 Jul 10;388(6638):133–4

Evaluation of semiquantitative reverse transcriptase–polymerase chain reaction assay of PML/retinoic acid receptor alpha mRNA and in vitro differentiation assay as prognostic prediction in acute promyelocytic leukemia treated with all–trans retinoic acid. Iwakiri R, et al. **Nippon Ika Daigaku Zasshi** 1996 Aug; 63(4):259–67

Membrane currents of murine osteoclasts generated from bone marrow/stromal cell co–culture. Shibata T, et al. **Osaka City Med J** 1996 Dec;42(2):93–107

Expression of bone marrow stromal cell specific antigen during murine development: its expression in embryonic hematopoietic tissues as well as in other developing tissues. Akasaka Y, et al. **Pathol Int** 1996 Apr;46(4):243–52

Characterization of whole–cell currents in mucosal and connective tissue rat mast cells using amphotericin–B–perforated patches and temperature control. Hill PB, et al. **Pflugers Arch** 1996 Oct; 432(6):986–94

Avian hematopoiesis in response to avian cytokines. Nicolas–Bolnet C, et al. **Poult Sci** 1995 Dec;74(12):1970–6

Cytokine manipulation of primitive human hematopoietic cell self–renewal. Zandstra PW, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4698–703

Ontogeny of NK cells and the bone marrow microenvironment: where does IL15 fit in? Puzanov IJ, et al. **Res Immunol** 1997 Mar–Apr;148(3):195–201 (46 ref.)

Marrow stromal cells as stem cells for nonhematopoietic tissues. Prockop DJ. **Science** 1997 Apr 4;276(5309):71–4 (32 ref.)

Blast colony forming cell–binding capacity of bone marrow stroma from myelodysplastic patients. Gidáli J, et al. **Stem Cells** 1996 Sep;14(5):577–83

The pivotal role of interleukin 6 in formation and function of hematopoietically active murine long–term bone marrow cultures. Hauser SP, et al. **Stem Cells** 1997;15(2):125–32

Development of a method of thymocyte differentiation of bone marrow–enriched CD34+CD38– cells in postnatal allogeneic cultured thymic epithelia to evaluate immunodeficiency disorders. Knutsen AP, et al. **Stem Cells** 1996 Nov;14(6):702–13

Leukemia inhibitory factor induces in vivo expansion of bone marrow progenitor cells that accelerate hematopoietic reconstitution but do not enhance radioprotection in lethally irradiated mice. Pruijt JF, et al. **Stem Cells** 1997; 15(1):50–5

Arrest of in vitro T cell differentiation of normal bone marrow–derived CD34+ stem cells with thymic epithelial fragments from children with AIDS. Ruiz ME, et al. **Stem Cells** 1996 Sep;14(5):533–47

The broad spectrum of cytokine gene expression by myoid cells from the human marrow microenvironment. Sensebe L, et al. **Stem Cells** 1997;15(2):133–43

Contrasting effects of TGF–beta 1 and TNF–alpha on the development of dendritic cells from progenitors in mouse bone marrow. Yamaguchi Y, et al. **Stem Cells** 1997; 15(2):144–53

Analysis of Fes kinase activity in myeloid cell growth and differentiation. Yates KE, et al. **Stem Cells** 1996 Nov; 14(6):714–24

Active immunization using dendritic cells mixed with tumor cells inhibits the growth of primary breast cancer. Coveney E, et al. **Surgery** 1997 Aug;122(2):228–34

Significance of bone marrow stromal cells in hematopoiesis and hematological disorders. Nagao T. **Tokai J Exp Clin Med** 1995 Jul;20(2):121–30 (83 ref.)

Quantification of CD34+ cells: comparison of methods. Fritsch G, et al. **Transfusion** 1997 Aug;37(8):775–84

TGF–beta 1 pretreatment impairs the allostimulatory function of human bone marrow–derived antigen–presenting cells for both naive and primed T cells. Bonham CA, et al. **Transpl Immunol** 1996 Sep;4(3):186–91

Comparative analysis of immunological reconstitution induced by vascularized bone marrow versus bone marrow cell transplantation. Lukomska B, et al. **Transpl Int** 1996; 9 Suppl 1:S492–6

Suppressed alloreactivity and mixed chimerism in rats with accepted cardiac allografts by intrathymic injection of donor bone marrow cells. Matsuura T, et al. **Transpl Int** 1997;10(4):262–7

Interaction between human humoral factors and swine bone marrow cells (an experimental report). Bianchi de Di Risio CC, et al. **Transplant Proc** 1997 Jun;29(4):1997–8

Monoclonal antibodies to the cell surface of a unique human lymphoid/myeloid cell line detect epitopes absent from peripheral blood mononuclear cells. Cusano G, et al. **Transplant Proc** 1997 Jun;29(4):2046

Enrichment of hematopoietic stem cells from human vertebral body marrow. Kenyon NS, et al. **Transplant Proc** 1997 Jun;29(4):1951

Characterization of baboon vertebral body marrow. Kenyon NS, et al. **Transplant Proc** 1997 Jun;29(4):1952

An automated method for flow–cytometric analysis of human vertebral body marrow. Knapp JC, et al. **Transplant Proc** 1997 Jun;29(4):1953

Characterization of pediatric vertebral bone marrow. Kong SS, et al. **Transplant Proc** 1997 Jun;29(4):1955

Autologous bone marrow–derived stromal fibroblastoid cells grown in vitro for the treatment of defects of mandibular bones. Krzymański G, et al. **Transplant Proc** 1996 Dec; 28(6):3528–30

Variables affecting human vertebral body marrow yields. Linetsky E, et al. **Transplant Proc** 1997 Jun;29(4):1959

Increased immunogenicity of human vertebral body marrow after processing in bovine versus human serum albumin. Linetsky E, et al. **Transplant Proc** 1997 Jun;29(4):1960

Vertebral body procurement from multiorgan donors for bone marrow harvest. Olson LC, et al. **Transplant Proc** 1997 Jun;29(4):2243–5

Immune markers and hematopoiesis of cadaveric bone marrow for transplantation. Söderdahl G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):714–5

Characterization of hematopoietic stem cells in the adult liver. Taniguchi H, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1212–3

Hematopoietic reconstitution by transplanted grafts in lethally irradiated recipients. Ye Q, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1202

Nitric oxide production by mouse bone marrow–derived dendritic cells: implications for the regulation of allogeneic T cell responses. Bonham CA, et al. **Transplantation** 1996 Dec 27;62(12):1871–7

An assessment of the effects of cadaver donor bone marrow on kidney allograft recipient blood cell chimerism by a novel technique combining PCR and flow cytometry. Garcia–Morales R, et al. **Transplantation** 1996 Oct 27; 62(8):1149–60

Fractionation of feline bone marrow with the soybean agglutinin lectin yields populations enriched for erythroid and myeloid elements: transplantation of soybean agglutinin–negative cells into lethally irradiated recipients. Gengozian N, et al. **Transplantation** 1997 Aug 15; 64(3):510–8

Interleukin–13, in combination with anti–interleukin–12, increases graft prolongation after portal venous immunization with cultured allogeneic bone marrow–derived dendritic cells. Gorczynski RM, et al. **Transplantation** 1996 Dec 15;62(11):1592–600

Donor–specific tolerance by perioperative intrathymic injection of bone marrow cells in the rat cardiac allograft model: use of FK506 can shorten the necessary duration of pretransplant intrathymic conditioning. Ito A, et al. **Transplantation** 1997 Sep 15;64(5):752–7

Bone marrow and splenocyte coculture–generated cells enhance allograft survival. Valente JF, et al. **Transplantation** 1997 Jul 15;64(1):114–23

Factors controlling haemopoiesis in ovine long–term bone marrow cultures. Marsicano G, et al. **Vet Immunol Immunopathol** 1997 Mar;55(4):291–301

Analysis for recovery and loss of mononuclear cells and colony–forming units granulocyte–macrophage during ex vivo processing of autologous bone marrow. Schwella N, et al. **Vox Sang** 1996;70(3):132–8

[The diversity of human hematopoietic stem/progenitor cells. I. Two–color flow cytometric analysis of the different functional subpopulations of CD 34+ hematopoietic stem/progenitor cells riched from human bone marrow] Xi YZ, et al. **Shih Yen Sheng Wu Hsueh Pao** 1996 Mar; 29(1):49–57 (Eng. Abstr.) **(Chi)**

[Effect of dibucaine and lidocaine on histamine release from mouse bone marrow–derived cultured mast cells] Yanagi H, et al. **Masui** 1997 Jan;46(1):16–22 (Eng. Abstr.) **(Jpn)**

[Usefulness of the modified Greipp's morphological classification of multiple myeloma cells] Ohata M, et al. **Rinsho Byori** 1996 Dec;44(12):1189–95 (Eng. Abstr.) **(Jpn)**

[General hematological tests. C. Sampling for bone marrow testing] Ohtake Y, et al. **Rinsho Byori** 1996 Nov;Suppl 103:134–8 **(Jpn)**

[Detection of numerical chromosomal aberrations in hematopoietic malignancy by in situ hybridization on bone marrow aspirate paraffin sections] Okada T, et al. **Rinsho Byori** 1996 Dec;44(12):1175–82 (Eng. Abstr.) **(Jpn)**

[Bone marrow failure––current progress in pathophysiology] Hotta T. **Rinsho Ketsueki** 1996 Jun;37(6):472–7 (43 ref.) **(Jpn)**

[Thrombopoietin] Mizoguchi H. **Rinsho Ketsueki** 1996 Jun; 37(6):483–7 (13 ref.) **(Jpn)**

[Serum erythropoietin levels and bone marrow hematopoiesis in patients with aplastic anemia] Ogawa T. **Rinsho Ketsueki** 1996 Jul;37(7):604–9 (Eng. Abstr.) **(Jpn)**

[The role of bone marrow stromal cells in apoptosis in myelodysplastic syndrome] Yaguchi M, et al. **Rinsho Ketsueki** 1996 Jul;37(7):542–6 (10 ref.) **(Jpn)**

[Reduced antitumoral and suppressor activity of nonadherent bone marrow cells during culturing in a mixture with supernatant of Ehrlich tumor] Bel'skiĭ IuP, et al. **Biull Eksp Biol Med** 1994 May;117(5):514–7 **(Rus)**

[Stimulation by exogenous zinc–metallothionein of DNA replicative synthesis and proliferation of bone marrow cells in mice] Koterov AN, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):505–8 **(Rus)**

[Long–term culture: evidence of the capacity of stroma to sustain hematopoiesis of a second inoculum] López Holgado N, et al. **Sangre (Barc)** 1996 Oct;41(5):345–9 (Eng. Abstr.) **(Spa)**

[Evaluation of bone–marrow cell cryopreservation using long–term cultures] Mellado–Damas N, et al. **Sangre (Barc)** 1997 Feb;42(1):17–20 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Aplastic anemia during treatment with albendazole [letter] Fernández FJ, et al. **Am J Hematol** 1996 Sep;53(1):53–4

Pharmacokinetics of intravenous recombinant human granulocyte colony–stimulating factor (rhG–CSF) in children receiving myelosuppressive cancer chemotherapy: clearance increases in relation to absolute neutrophil count with repeated dosing. Sturgill MG, et al. **Am J Hematol** 1997 Feb;54(2):124–30

How erythropoietin affects bone marrow of uremic patients. Sikole A, et al. **Am J Nephrol** 1997;17(2):128–36

Methotrexate and triamterene––a potentially fatal combination? [letter] Richmond R, et al. **Ann Rheum Dis** 1997 Mar;56(3):209–10

Protection and rescue from 2',3'–dideoxypyrimidine nucleoside analog toxicity by hemin in human bone marrow progenitor cells. Fowler DA, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):191–5

Enhancement by conditioned medium of stretched calvarial bone cells of the osteoclast–like cell formation induced by parathyroid hormone in mouse bone marrow cultures. Soma S, et al. **Arch Oral Biol** 1997 Mar;42(3):205–11

Bone marrow and renal injury associated with haloalkene cysteine conjugates in calves. Lock EA, et al. **Arch Toxicol** 1996;70(10):607–19

Estrogen effects on protein expressed by marrow stromal osteoblasts. Benayahu D. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):30–5

Apparent stimulation of thrombopoesis with interleukin–3 (IL–3) in chemotherapy induced myelosuppression. Schweiger C, et al. **Biofactors** 1995–96;5(2):73–4

O6–benzylguanine potentiates the in vivo toxicity and clastogenicity of temozolomide and BCNU in mouse bone marrow. Chinnasamy N, et al. **Blood** 1997 Mar 1; 89(5):1566–73

Quantitative and cell–cycle differences in progenitor cells mobilized by recombinant human interleukin–7 and recombinant human granulocyte colony–stimulating factor. Grzegorzewski KJ, et al. **Blood** 1996 Dec 1;88(11):4139–48

Prevention of thrombocytopenia and neutropenia in a nonhuman primate model of marrow suppressive chemotherapy by combining pegylated recombinant human megakaryocyte growth and development factor and recombinant human granulocyte colony–stimulating factor. Harker LA, et al. **Blood** 1997 Jan 1;89(1):155–65

Erythropoietin–induced activation of STAT5 is impaired in the myelodysplastic syndrome. Hoefsloot LH, et al. **Blood** 1997 Mar 1;89(5):1690–700

Granulocyte colony–stimulating factor–induced comobilization of CD4– CD8– T cells and hematopoietic progenitor cells (CD34+) in the blood of normal donors. Kusnierz–Glaz CR, et al. **Blood** 1997 Apr 1;89(7):2586–95

Phenotypic and functional changes induced at the clonal level in hematopoietic stem cells after 5–fluorouracil treatment. Randall TD, et al. **Blood** 1997 May 15;89(10):3596–606

Genetic influences determining progenitor cell mobilization and leukocytosis induced by granulocyte colony–stimulating factor. Roberts AW, et al. **Blood** 1997 Apr 15;89(8):2736–44

Macrophage colony–stimulating factor induces substantial osteoclast generation and bone resorption in human bone marrow cultures. Sarma U, et al. **Blood** 1996 Oct 1; 88(7):2531–40

Granulocyte colony–stimulating factor mobilizes into peripheral blood the complete clonal repertoire of hematopoietic precursors residing in the bone marrow of mice. Varas F, et al. **Blood** 1996 Oct 1;88(7):2495–501

Effect of rhBMP–2 on the osteogenic potential of bone marrow stromal cells from an osteogenesis imperfecta mouse (oim). Balk ML, et al. **Bone** 1997 Jul;21(1):7–15

Development and characterization of a porcine model to study osteoclast differentiation and activity. Galvin RJ, et al. **Bone** 1996 Sep;19(3):271–9

Effect of alendronate treatment on the osteoclastogenic potential of bone marrow cells in mice. van Beek ER, et al. **Bone** 1997 Apr;20(4):335–40

Phase I–II study of high–dose busulfan and cyclophosphamide followed by autologous peripheral blood stem cell transplantation for hematological malignancies: toxicities and hematopoietic recovery. Ballester OF, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):9–14

Autologous transplantation with peripheral blood stem cells collected after granulocyte colony–stimulating factor in patients with acute myelogenous leukemia. Demirer T, et al. **Bone Marrow Transplant** 1996 Jul;18(1):29–34

Allogeneic transplantation of positively selected peripheral blood CD34+ progenitor cells from matched related donors. Finke J, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1081–6

Dose–dependent mobilisation of haematopoietic progenitor cells in healthy volunteers receiving glycosylated rHuG–CSF. Höglund M, et al. **Bone Marrow Transplant** 1996 Jul;18(1):19–27

Predictive factors affecting mobilization and peripheral blood stem cell (PBSC) collection using single apheresis (SA) for rescuing patients after high–dose chemotherapy (HD.CHE) in various malignancies. Koumakis G, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1065–72

Successful mobilisation of blood stem cells following previous autologous bone marrow transplantation [letter] McQuaker IG, et al. **Bone Marrow Transplant** 1996 Jul;

18(1):263–4
Peripheral blood progenitor cell transplantation: a single centre experience comparing two mobilisation regimens in 67 patients. Mahendra P, et al. **Bone Marrow Transplant** 1996 Apr;17(4):503–7 (14 ref.)
Mobilization of peripheral blood progenitor cells by cyclophosphamide and rhGM–CSF in multiple myeloma. Martínez E, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):1–7
Antitumor and accessory immune activities of peripheral blood stem cells mobilized with granulocyte–macrophage colony–stimulating factor. Triozzi PL, et al. **Bone Marrow Transplant** 1996 Jul;18(1):47–52
Comparison of natural killer activity of human bone marrow and blood cells in cultures containing IL–2, IL–7 and IL–12. Wong EK, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):63–71
Continuous infusion of macrophage inflammatory protein MIP–1alpha enhances leucocyte recovery and haemopoietic progenitor cell mobilization after cyclophosphamide. Marshall E, et al. **Br J Cancer** 1997; 75(12):1715–20
Intracellular thiopurine nucleotides and azathioprine myelotoxicity in organ transplant patients. Boulieu R, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):116–8
Does colchicine really induce bone formation in the rodent bone marrow? Wlodarski KH, et al. **Calcif Tissue Int** 1997 Aug;61(2):165–7
Combination of SCF, IL–6, IL–3, and GM–CSF increases the mitotic index in short term bone marrow cultures from acute promyelocytic leukemia (APL) patients. Williams B, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):77–81
Induction of graft versus leukemia effects by cell–mediated lymphokine–activated immunotherapy after syngeneic bone marrow transplantation in murine B cell leukemia. Weiss L, et al. **Cancer Immunol Immunother** 1996 Oct; 43(2):103–8
GM–CSF did not allow doxorubicin dose escalation in the MAID regimen: a phase I trial. A Southwest Oncology Group study. Hicks LG, et al. **Cancer Invest** 1996; 14(6):507–12
Increased gene expression in human promyeloid leukemia cells exposed to trans,trans–muconaldehyde, a hematotoxic benzene metabolite. Ho TY, et al. **Carcinogenesis** 1997 Apr; 18(4):739–44
The expression of estrogen receptor and estrogen effect in MBA–15 marrow stromal osteoblasts. Shamay A, et al. **Cell Biol Int** 1996 Jun;20(6):401–5
Level of myelopoiesis in the bone marrow is influenced by intestinal flora. Tada T, et al. **Cell Immunol** 1996 Oct 10; 173(1):155–61
Peroxisome proliferator nafenopin potentiated cytotoxicity and genotoxicity of cyclophosphamide in the liver and bone marrow cells. Voskoboinik I, et al. **Chem Biol Interact** 1997 Jul 11;105(2):81–97
Myelosuppression in the pig (Sus scrofa): uteroferrin reduces the myelosuppressive effects of 5–fluorouracil in young pigs. Laurenz JC, et al. **Comp Biochem Physiol A Physiol** 1997 Apr;116(4):369–77
Induction of endotoxin tolerance in rat bone marrow cells by in vivo infusion of tumor necrosis factor. Ogle CK, et al. **Crit Care Med** 1997 May;25(5):827–33
Differential effects of transforming growth factor beta2, dexamethasone and 1,25–dihydroxyvitamin D on human bone marrow stromal cells. Fromigué O, et al. **Cytokine** 1997 Aug;9(8):613–23
Upmodulation of multinucleated cell formation in long–term human bone marrow cultures by leukaemia inhibitory factor (LIF). Heymann D, et al. **Cytokine** 1997 Jan; 9(1):46–52
Hematopoietic effects of benzene inhalation assessed by long–term bone marrow culture. Abraham NG. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1277–82
Modeling marrow damage from response data: evolution from radiation biology to benzene toxicity. Jones DT, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1293–301
Myeloid leukemia after hematotoxins. Larson RA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1303–7 (32 ref.)
Role of nitric oxide in hematosuppression and benzene–induced toxicity. Laskin DL, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1283–7
Cell–specific activation and detoxification of benzene metabolites in mouse and human bone marrow: identification of target cells and a potential role for modulation of apoptosis in benzene toxicity. Ross D, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1177–82
Analysis of target cell susceptibility as a basis for the development of a chemoprotective strategy against benzene–induced hematotoxicities. Trush MA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1227–34 (58 ref.)
Temporal and molecular characteristics of lacZ mutations in somatic tissues of transgenic mice. Douglas GR, et al. **Environ Mol Mutagen** 1996;28(4):317–24
An evaluation of micronucleus induction in bone marrow and in hepatocytes isolated from collagenase perfused liver or from formalin–fixed liver using four–week–old rats treated with known clastogens. Parton JW, et al. **Environ Mol Mutagen** 1997;29(4):379–85
Assessment of 1,3–butadiene mutagenicity in the bone marrow of B6C3F1 lacI transgenic mice (Big Blue): a review of mutational spectrum and lacI mutant frequency after a 5–day 625 ppm 1,3–butadiene exposure. Recio L, et al. **Environ Mol Mutagen** 1996;28(4):424–9
Studies for a genotoxic potential of some endogenous and exogenous sex steroids. II. Communication: examination for the induction of cytogenetic damage using the chromosomal aberration assay on human lymphocytes in vitro and the mouse bone marrow micronucleus test in vivo. Reimann R, et al. **Environ Mol Mutagen** 1996; 28(2):133–44
Bone marrow protection with amifostine in the treatment of high–risk malignant lymphoma. Avilés A, et al. **Eur J Cancer** 1997 Jul;33(8):1323–5
Bone marrow fibroblast exposure to the inflammatory cytokines tumor necrosis factor–alpha and interferon–gamma increases adhesion of acute myeloid leukemia cells and alters the adhesive mechanism. Bendall LJ, et al. **Exp Hematol** 1997 Feb;25(2):132–9
Effects of short–term in vivo administration of G–CSF on bone marrow prior to harvesting. Dicke KA, et al. **Exp Hematol** 1997 Jan;25(1):34–8
Role of cytoprotective mechanisms in the photochemical purging of autologous bone marrow grafts. Yamazaki T, et al. **Exp Hematol** 1997 Jul;25(7):629–37
Mechanistic studies on genotoxicity and carcinogenicity of salicylazosulfapyridine an anti–inflammatory medicine. Iatropoulos MJ, et al. **Exp Toxicol Pathol** 1997 Feb; 49(1–2):15–28
Cytogenetic results from a chronic feeding study of MeIQx in mice. Breneman JW, et al. **Food Chem Toxicol** 1996 Aug; 34(8):717–24
Sister chromatid exchanges induced in vitro and in vivo by an extract of black pepper. Madrigal–Bujaidar E, et al. **Food Chem Toxicol** 1997 Jun;35(6):567–71
Effects of interferon treatment on the macrophage population in the bone marrow of patients with Ph1+–CML. Thiele J, et al. **Hematopathol Mol Hematol** 1996;10(4):201–12
Histopathological changes in bone marrow biopsies from patients with chronic myeloid leukaemia after treatment with recombinant alpha–interferon. Facchetti F, et al. **Histopathology** 1997 Jul;31(1):3–11
Evaluation of the potential carcinogenicity and genetic toxicity to humans of the herbicide acetochlor [see comments] Ashby J, et al. **Hum Exp Toxicol** 1996 Sep; 15(9):702–35. Comment in: Hum Exp Toxicol 1997 Apr;16(4):186–7. Comment in: Hum Exp Toxicol 1997 Apr;16(4):188. Comment in: Hum Exp Toxicol 1997 Apr;16(4):189.
The hematological effects of folate analogs: implications for using the dihydrofolate reductase gene for in vivo selection. Blau CA, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2069–78
Inducible protective processes in animal systems: adaptive response to a low dose of methyl methanesulfonate in mouse bone marrow cells. Mahmood R, et al. **Indian J Exp Biol** 1996 Jun;34(6):502–7
Pharmacokinetic studies of intravenous glycosylated recombinant human granulocyte colony–stimulating factor in various hematological disorders: inverse correlation between the half–life and bone marrow myeloid cell pool. Watari K, et al. **Int J Hematol** 1997 Jul;66(1):57–67
Development of bone marrow toxicosis after albendazole administration in a dog and cat. Stokol T, et al. **J Am Vet Med Assoc** 1997 Jun 15;210(12):1753–6
Ras–dependent activation of c–Jun N–terminal kinase/stress–activated protein kinase in response to interleukin–3 stimulation in hematopoietic BaF3 cells. Terada K, et al. **J Biol Chem** 1997 Feb 14;272(7):4544–8
Steroid–induced adipogenesis in a pluripotential cell line from bone marrow. Cui Q, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1054–63
Demineralized bone matrix mediates differentiation of bone marrow stromal cells in vitro: effect of age of cell donor. Becerra J, et al. **J Bone Miner Res** 1996 Nov;11(11):1703–14
Osteochondrogenic potential of marrow mesenchymal progenitor cells exposed to TGF–beta 1 or PDGF–BB as assayed in vivo and in vitro. Cassiede P, et al. **J Bone Miner Res** 1996 Sep;11(9):1264–73
Effects of continuous calcitonin treatment on osteoclast–like cell development and calcitonin receptor expression in mouse bone marrow cultures. Ikegame M, et al. **J Bone Miner Res** 1996 Apr;11(4):456–65
Involvement of different second messengers in parathyroid hormone– and interleukin–1–induced interleukin–6 and interleukin–11 production in human bone marrow stromal cells. Kim GS, et al. **J Bone Miner Res** 1997 Jun; 12(6):896–902
Bilateral tibial marrow ablation in rats induces a rapid hypercalcemia arising from extratibial bone resorption inhibitable by methylprednisolone or deflazacort. Magnuson SK, et al. **J Bone Miner Res** 1997 Feb; 12(2):200–9
Lack of evidence for an increase in interleukin–6 expression in adult murine bone, bone marrow, and marrow stromal cell cultures after ovariectomy. Vargas SJ, et al. **J Bone Miner Res** 1996 Dec;11(12):1926–34
Expression of bone matrix proteins during dexamethasone–induced mineralization of human bone marrow stromal cells. Cheng SL, et al. **J Cell Biochem** 1996 May;61(2):182–93
1,25–Dihydroxyvitamin D3 selectively induces increased expression of the Na,K–ATPase beta 1 subunit in avian myelomonocytic cells without a concomitant change in Na,K–ATPase activity. Billecocq A, et al. **J Cell Physiol** 1997 Aug;172(2):221–9
Granulocyte–macrophage colony–stimulating factor with induction treatment of acute myelogenous leukemia [letter; comment] Adkins DR, et al. **J Clin Oncol** 1997 Feb; 15(2):862–3. Comment on: J Clin Oncol 1996 Jul;14(7):2150–9.
Responsiveness to recombinant human erythropoietin (rh–Epo) of marrow erythroid progenitors (CFU–E and BFU–E) from B–chronic lymphocytic leukemia (B–CLL). Tsatalas C, et al. **J Exp Clin Cancer Res** 1997 Jun; 16(2):163–70
Improved priming for mobilization of and optimal timing for harvest of peripheral blood stem cells. Knudsen LM, et al. **J Hematother** 1996 Aug;5(4):399–406
Concomitant mobilization of plasma cells and hematopoietic progenitors into peripheral blood of patients with multiple myeloma. Lemoli RM, et al. **J Hematother** 1996 Aug; 5(4):339–49
rhG–CSF in healthy donors: mobilization of peripheral hemopoietic progenitors and effect on peripheral blood leukocytes. Sica S, et al. **J Hematother** 1996 Aug;5(4):391–7
Receptor induction regulates the synergistic effects of substance P with IL–1 and platelet–derived growth factor on the proliferation of bone marrow fibroblasts. Rameshwar P, et al. **J Immunol** 1997 Apr 1;158(7):3417–24
Secondary cytokines interact in sequence with interleukin–1alpha (IL–1alpha) with or without macrophage colony–stimulating factor (M–CSF) to further accelerate granulopoietic recovery in myelosuppressed animals. Kovacs CJ, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):453–60
A comparison of the antiproliferative properties of recombinant human IFN–alpha 2 and IFN–omega in human bone marrow culture. Tiefenthaler M, et al. **J Interferon Cytokine Res** 1997 Jun;17(6):327–9
Interferon–gamma enhances megakaryocyte colony–stimulating activity in murine bone marrow cells. Tsuji–Takayama K, et al. **J Interferon Cytokine Res** 1996 Sep;16(9):701–8
Granulocyte colony–stimulating factor–stimulated proliferation of myeloid cells: mode of cell cycle control by a range of inhibitors. Ward AC, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):869–77
PAF and haematopoiesis: IX. Platelet–activating factor increases DNA synthesis in human bone marrow cells. Denizot Y, et al. **J Lipid Mediat Cell Signal** 1996 Dec; 15(1):1–4
Platelet–activating factor and antagonists modulate DNA synthesis in human bone marrow stromal cell cultures. Rougier F, et al. **J Lipid Mediat Cell Signal** 1997 Jul; 16(3):147–53
Delayed anemia and thrombocytopenia after treatment with gemcitabine [letter] Malayeri R, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1164
Re: Adverse effect on bone marrow protection of prechemotherapy granulocyte colony–stimulating factor support [letter; comment] Ribas A, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):395–6. Comment on: J Natl Cancer Inst 1996 Oct 2;88(19):1393–8.
Interleukin–11 improves survival and reduces bacterial translocation and bone marrow suppression in burned mice. Schindel D, et al. **J Pediatr Surg** 1997 Feb;32(2):312–5
Methotrexate dose–escalation studies in transgenic mice and marrow transplant recipients expressing drug–resistant dihydrofolate reductase activity. May C, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1444–51
Mutagenicity of scooter exhaust particulate matter. Zhou W, et al. **J Toxicol Environ Health** 1997 Sep;52(1):35–44
Comparative immunotoxicity assessment of N4–Trimethoxybenzoyl–5′–deoxy–5– fluorocytidine (Ro 09–1390) and 5′–deoxy–5–fluorouridine (5′–DFUR) in BDF1 mice. Inoue T, et al. **J Toxicol Sci** 1996 Feb; 21(1):29–39
In vivo effect of recombinant human leukemia inhibitory factor in primates. Akiyama Y, et al. **Jpn J Cancer Res** 1997 Jun;88(6):578–83
Tacrolimus–induced bone marrow suppression [letter] de–la–Serna–Higuera C, et al. **Lancet** 1997 Sep 6; 350(9079):714–5
Influence of interferon–alpha on cytokine expression by the bone marrow microenvironment—impact on treatment of myeloproliferative disorders. Peschel C, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:129–34 (77 ref.)
Mobilization of peripheral blood progenitor cells following CHOP treatment combined with delayed granulocyte colony–stimulating factor administration in patients with non–Hodgkin's lymphoma. Takano H, et al. **Leuk Lymphoma** 1996 May;21(5–6):473–8
Radio– and chemoprotection of bone marrow cells by opposite cell cycle–acting cytokines [editorial] Dalmau SR, et al. **Leuk Res** 1997 Feb;21(2):93–9 (67 ref.)
Merocyanine 540 mediated photolysis of normal bone marrow, committed hemopoietic progenitors and neoplastic cells. implications for bone marrow purging. Lydaki E, et al. **Leuk Res** 1997 Jul;21(7):641–50
Intrathecal chemotherapy and bone marrow [letter] Barişta I, et al. **Leukemia** 1997 Aug;11(8):1392–3
The combined effects of all–trans retinoic acid and TGF–beta on the initial proliferation of normal human bone marrow progenitor cells. Lardon F, et al. **Leukemia** 1996 Dec; 10(12):1937–43

BONE MARROW

Differential effect of GM-CSF pretreatment on intracellular Ara-C metabolism in normal bone marrow mononuclear cells vs acute myeloid leukemia (AML) blasts. Reuter C, et al. **Leukemia** 1997 Apr;11(4):561-71

A fraction unresponsive to growth inhibition by TGF-beta among the high-proliferative potential progenitor cells in bone marrow of p53-deficient mice. Sasaki H, et al. **Leukemia** 1997 Feb;11(2):239-44

The protective role of zinc and N-acetylcysteine in modulating zidovudine induced hematopoietic toxicity. Gogu SR, et al. **Life Sci** 1996;59(16):1323-9

Incorporation of long-chain n-3 fatty acids in tissues and enhanced bone marrow cellularity with docosahexaenoic acid feeding in post-weanling Fischer 344 rats. Atkinson TG, et al. **Lipids** 1997 Mar;32(3):293-302

Phase I trial of subcutaneous interleukin-1 alpha in children with malignant solid tumors. Furman WL, et al. **Med Pediatr Oncol** 1997 Jun;28(6):444-50

Effects of vitamin B12 on cell proliferation and cellular alkaline phosphatase activity in human bone marrow stromal osteoprogenitor cells and UMR106 osteoblastic cells. Kim GS, et al. **Metabolism** 1996 Dec;45(12):1443-6

Characterization of the growth factor activity of amniotic fluid on cells from hematopoietic and lymphoid organs of different life stages. Heidari Z, et al. **Microbiol Immunol** 1996;40(8):583-9

Zinc compounds inhibit osteoclast-like cell formation at the earlier stage of rat marrow culture but not osteoclast function. Yamaguchi M, et al. **Mol Cell Biochem** 1996 May 24;158(2):171-7

In vivo cytogenetic effects of natural humic acid. Bernacchi F, et al. **Mutagenesis** 1996 Sep;11(5):467-9

CI solvent yellow 14 shows activity in the bone marrow micronucleus assay in both the rat and mouse. Elliott BM, et al. **Mutagenesis** 1997 Jul;12(4):255-8

Quantitative and qualitative studies of micronucleus induction in mouse erythrocytes using flow cytometry. II. Analysis of micronuclei of aneugenic and clastogenic origin by dual-colour FISH on populations of bone marrow PCEs flow sorted on the basis of their relative DNA content. Grawé J, et al. **Mutagenesis** 1997 Jan;12(1):9-16

An investigation of bone marrow and testicular cells in vivo using the comet assay. Anderson D, et al. **Mutat Res** 1996 Oct 1;370(3-4):159-74

High body temperature induces micronuclei in mouse bone marrow. Asanami S, et al. **Mutat Res** 1997 Apr 24; 390(1-2):79-83

Selenium salts and chromosome damage. Biswas S, et al. **Mutat Res** 1997 May 23;390(3):201-5

2-Nitropropane-induced DNA damage in rat bone marrow. Deng XS, et al. **Mutat Res** 1997 Jul 14;391(3):165-9

Comparative genotoxicity of six salicylic acid derivatives in bone marrow cells of mice. Giri AK, et al. **Mutat Res** 1996 Aug;370(1):1-9

Inhibitory effect of chlorophyllin on the frequency of sister chromatid exchanges produced by benzo[a]pyrene in vivo. Madrigal-Bujaidar E, et al. **Mutat Res** 1997 Jan 15; 388(1):79-83

Species-specificity of pyrimethamine in the rodent bone marrow micronucleus test. Ono T, et al. **Mutat Res** 1997 Apr 24;390(1-2):167-70

Activity of a nitroalkene derivative, 1-(5-bromofur-2-il)-2-bromo-2-nitroethene, in the Salmonella/microsome assay and the mouse bone marrow micronucleus test. Ramos A, et al. **Mutat Res** 1997 May 23;390(3):233-8

Radioprotection of beta-carotene evaluated on mouse somatic and germ cells. Salvadori DM, et al. **Mutat Res** 1996 Sep 23;356(2):163-70

Genotoxicity of lynoral (ethinyloestradiol, an oestrogen) in mouse bone marrow cells, in vivo. Shyama SK, et al. **Mutat Res** 1996 Oct 1;370(3-4):175-80

Mutagenicity to the mouse bone marrow by the mouse germ cell mutagen N-propyl-N-nitrosourea. Tinwell H, et al. **Mutat Res** 1996 Oct 1;370(3-4):141-3

In vivo chromosomal aberrations in bone marrow cells of rats treated with Marshal. Topaktaş M, et al. **Mutat Res** 1996 Dec 20;371(3-4):259-64

Selective radiosensitization of p53-deficient cells by caffeine-mediated activation of p34cdc2 kinase. Yao SL, et al. **Nat Med** 1996 Oct;2(10):1140-3

Effects of colony-stimulating factors on voltage-gated K+ currents of bone marrow-derived macrophages. Eder C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):198-202

Differential chemosensitivity of leukemic cells in the myeloid and lymphoid phases of stem cell leukemia (a case report). Mihál V, et al. **Neoplasma** 1997;44(2):133-6

Etoposide: more effective and less bone-marrow toxic than standard immunosuppressive therapy in systemic vasculitis? Pedersen RS, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):1121-3

Bone marrow uptake of fluorine-18-fluorodeoxyglucose following treatment with hematopoietic growth factors: initial evaluation. Knopp MV, et al. **Nucl Med Biol** 1996 Aug;23(6):845-9

Zinc porphyrins: potent inhibitors of hematopoieses in animal and human bone marrow. Lutton JD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1432-6

Differential effects of acute hypoxia and endotoxin on the secretion and expression of bone marrow interleukin-1 and interleukin-6. Mohr AM, et al. **Shock** 1997 May;7(5):324-31

Extract of astragalus membranaceus and ligustrum lucidum does not prevent cyclophosphamide-induced myelosuppression. Khoo KS, et al. **Singapore Med J** 1995 Aug;36(4):387-90

Evaluation of the genotoxic potential of flumethrin in mouse bone marrow by chromosomal analysis and micronucleus test. Nakano E, et al. **Teratog Carcinog Mutagen** 1996; 16(1):37-48

Ultrastructural changes of stromal cells of bone marrow and liver after cyclophosphamide treatment in mice. Anton E. **Tissue Cell** 1997 Feb;29(1):1-9

Micronucleus induction by diuron in mouse bone marrow. Agrawal RC, et al. **Toxicol Lett** 1996 Dec;89(1):1-4

Genotoxicity of selected pesticides in the mouse bone-marrow micronucleus test and in the sister-chromatid exchange test with human lymphocytes in vitro. Kevekordes S, et al. **Toxicol Lett** 1996 Dec;89(1):35-42

Comparison of the content and subpopulations of CD3 and CD34 positive cells in bone marrow harvests and G-CSF-mobilized peripheral blood leukapheresis products from healthy adult donors. Hassan HT, et al. **Transpl Immunol** 1996 Dec;4(4):319-23

Long-term engraftment of precultured post-5-fluorouracil allogeneic marrow in mice conditioned with a nonmyeloablative regimen: relevance for a gene therapy approach to tolerance induction. Hayashi H, et al. **Transpl Immunol** 1996 Mar;4(1):86-90

Effect of malononitrilamides on human bone marrow. Czech J, et al. **Transplant Proc** 1996 Dec;28(6):3051-2

Romurtide, a synthetic muramyl dipeptide derivative, promotes megakaryocytopoiesis through stimulation of cytokine production in nonhuman primates with myelosuppression. Namba K, et al. **Vaccine** 1997 Mar; 15(4):405-13

The effect of lead on the bone marrow stem cells of mice infected with Listeria monocytogenes. Bincoletto C, et al. **Vet Hum Toxicol** 1996 Jun;38(3):186-90

Effect of bone wax extract on the frequency of bone marrow erythrocyte micronuclei in mice. Mohanan PV, et al. **Vet Hum Toxicol** 1996 Dec;38(6):427-8

Genotoxicity studies of quercetin and shikimate in vivo in the bone marrow of mice and gastric mucosal cells of rats. Ngomuo AJ, et al. **Vet Hum Toxicol** 1996 Jun;38(3):176-80

[Induction of micronuclei in erythrocytes of bone marrow and peripheral blood in laboratory mice following acute and subchronic exposure to DDT(fenarimol and nuarimol)] Tyrkiel E, et al. **Rocz Panstw Zakl Hig** 1996;47(2):151-8 (Eng. Abstr.) **(Pol)**

[Intensive care of myelotoxic agranulocytosis using nonselective plasmapheresis] Andriukhin VI, et al. **Anesteziol Reanimatol** 1996 Jul-Aug;(4):75-6 (Eng. Abstr.) **(Rus)**

[The effect of leukemia-inhibitory factor on the hematopoiesis and stromal precursor cells in long-term culture of murine bone marrow] Drize NI, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):325-8 **(Rus)**

[Anticlastogenic activity of apo-carotene in vivo] Durnev AD, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):68-70 (Eng. Abstr.) **(Rus)**

[The diverse effects of the combined action of cadmium chloride and ionizing radiation on the content of metallothioneins in mouse bone marrow and liver] Koterov AN, et al. **Radiats Biol Radioecol** 1997 Mar-Apr; 37(2):196-201 (Eng. Abstr.) **(Rus)**

[Severe adverse effect of methotrexate in rheumatoid arthritis. Don't forget security routines in intercurrent disease!] Gülfe A, et al. **Lakartidningen** 1997 May 7; 94(19):1811-2 **(Swe)**

EMBRYOLOGY

Marrow-mesenchyme connections in the fetal and newborn tympanum. A new entity. Linthicum FH Jr, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):466-70

Early ontogeny of factor XIIIa+ dendritic cells in developing human long bone marrow [letter; comment] Silverman JS, et al. **Blood** 1996 Nov 15;88(10):4072-8. Comment on: Blood 1996 May 15;87(10):4109-19.

Primitive lymphohematopoietic precursor cell lines generated in culture from day 7 early-mid-primitive streak stage mouse embryo. Palacios R, et al. **EMBO J** 1996 Dec 16; 15(24):6869-76

Developmental change of megakaryocyte maturation and DNA ploidy in human fetus. Ma DC, et al. **Eur J Haematol** 1996 Aug;57(2):121-7

Identification of the earliest B lineage stage in mouse bone marrow. Li YS, et al. **Immunity** 1996 Dec;5(6):527-35

Elevated deoxyuridine triphosphate nucleotidohydrolase (dUTPase) activity in the cobalamin-deficient megaloblastic bone marrow cells. Sugita Y, et al. **Int J Hematol** 1996 Oct;64(3-4):203-12

Matrix metalloproteinases are obligatory for the migration of preosteoclasts to the developing marrow cavity of primitive long bones. Blavier L, et al. **J Cell Sci** 1995 Dec; 108 (Pt 12):3649-59

[In utero cellular therapy] Forestier F. **Contracept Fertil Sex** 1997 Jun;25(6):I-IV **(Fre)**

ENZYMOLOGY

Molecular cloning and characterization of arginine-specific ADP-ribosyltransferases from chicken bone marrow cells. Shimoyama M, et al. **Adv Exp Med Biol** 1997;419:137-44

Antioxidant enzyme activity in murine hematopoietic bone marrow following treatment with interleukin 1 alpha: influence of tumor. Johnke RM, et al. **Anticancer Res** 1997 May-Jun;17(3C):2169-74

Activation of extracellular signal-regulated kinases 1 and 2 (ERK1 and ERK2) by FGF-2 and PDGF-BB in normal human osteoblastic and bone marrow stromal cells: differences in mobility and in-gel renaturation of ERK1 in human, rat, and mouse osteoblastic cells. Chaudhary LR, et al. **Biochem Biophys Res Commun** 1997 Sep 8; 238(1):134-9

HPK1, a hematopoietic protein kinase activating the SAPK/JNK pathway. Kiefer F, et al. **EMBO J** 1996 Dec 16;15(24):7013-25

Particulate ANP-sensitive guanylyl cyclase in blood and bone marrow cells of patients with acute leukemia. Knau B, et al. **Eur J Med Res** 1997 Mar 24;2(3):101-5

Effects of macrophage- and granulocyte-colony stimulating factors on thymidylate synthase and thymidine kinase activity in rat hematopoietic cells. Kudo H, et al. **Haematologica** 1997 Mar-Apr;82(2):187-8

Correction of the enzyme deficit of bone marrow cells in congenital erythropoietic porphyria by retroviral gene transfer. Moreau-Gaudry F, et al. **Hematol Cell Ther** 1996 Apr;38(2):217-20

Osteogenesis by pulsing electromagnetic fields (PEMFs): optimum stimulation setting. Matsunaga S, et al. **In Vivo** 1996 May-Jun;10(3):351-6

Cloning and characterization of a novel oxidoreductase KDRF from a human bone marrow-derived stromal cell line KM-102. Koishi R, et al. **J Biol Chem** 1997 Jan 24; 272(4):2570-7

1,25-Dihydroxyvitamin D3 selectively induces increased expression of the Na,K-ATPase beta 1 subunit in avian myelomonocytic cells without a concomitant change in Na,K-ATPase activity. Billecocq A, et al. **J Cell Physiol** 1997 Aug;172(2):221-9

Cloning and characterization of PTP-K1, a novel nonreceptor protein tyrosine phosphatase highly expressed in bone marrow. Huang K, et al. **Oncogene** 1996 Oct 3; 13(7):1567-73

Differential expression of telomerase activity in hematopoietic progenitors from adult human bone marrow. Chiu CP, et al. **Stem Cells** 1996 Mar;14(2):239-48

Telomerase activity and phenotypic characterization in harvested bone marrow from a child with a germline cell cancer. Russo DA, et al. **Transplant Proc** 1997 Jun; 29(4):2002

GROWTH & DEVELOPMENT

In vivo radioprotective effect of AcSDKP on canine myelopoiesis. Deeg HJ, et al. **Ann Hematol** 1997 Mar; 74(3):117-22

Blood concentrations of G-CSF and myelopoiesis in patients undergoing aortocoronary bypass surgery. Usui A, et al. **Ann Hematol** 1997 Apr;74(4):169-73

Circadian cell cycle variations of erythro- and myelopoiesis in humans. Abrahamsen JF, et al. **Eur J Haematol** 1997 May;58(5):333-45

Pre-thymic transcription of TCR genes by adult murine bone marrow cells. Wang TG, et al. **Mol Immunol** 1996 Aug; 33(11-12):957-64

Role of CSF-1 in bone and bone marrow development. Cecchini MG, et al. **Mol Reprod Dev** 1997 Jan;46(1):75-83; discussion 83-4 (32 ref.)

IMMUNOLOGY

Bone marrow immunoglobulin-secreting cells are not reduced in children with leukaemia as compared to children with solid tumours. Abrahamsson J, et al. **Acta Paediatr** 1997 Feb;86(2):165-9

Paraffin section immunophenotyping of acute leukemias in bone marrow specimens. Arber DA, et al. **Am J Clin Pathol** 1996 Oct;106(4):462-8

Cytokine and eosinophil responses in the lung, peripheral blood, and bone marrow compartments in a murine model of allergen-induced airways inflammation [see comments] Ohkawara Y, et al. **Am J Respir Cell Mol Biol** 1997 May; 16(5):510-20. Comment in: Am J Respir Cell Mol Biol 1997 May;16(5):497-500.

Immunotyping of blasts in human bone marrow. Oertel J, et al. **Ann Hematol** 1996 Mar;72(3):125-9

Long-term antibody production is sustained by antibody-secreting cells in the bone marrow following acute viral infection. Slifka MK, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:166-76

Bone marrow-derived dendritic cells, infection with human immunodeficiency virus, and immunopathology. Knight SC, et al. **Annu Rev Immunol** 1997;15:593-615 (103 ref.)

Ex vivo generation of human anti-pre-B leukemia-specific autologous cytolytic T cells. Cardoso AA, et al. **Blood** 1997 Jul 15;90(2):549-61

Major histocompatibility complex restriction between hematopoietic stem cells and stromal cells in vivo. Hashimoto F, et al. **Blood** 1997 Jan 1;89(1):49-54

Bone marrow contains virus-specific cytotoxic T lymphocytes. Slifka MK, et al. **Blood** 1997 Sep 1; 90(5):2103-8

T-cell receptor beta chain variability in bone marrow and peripheral blood in severe acquired aplastic anemia. Manz CY, et al. **Blood Cells Mol Dis** 1997;23(1):110-22

Expression of the hematopoietic stem cell antigen CD34 on blood and bone marrow monoclonal plasma cells from patients with multiple myeloma. Kimlinger T, et al. **Bone Marrow Transplant** 1997 Mar;19(6):553–6

Immunologic phenotype and function in human bone marrow, blood stem cells and umbilical cord blood. Mills KC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):53–61

The efficiency of tumor cell purging using immunomagnetic CD34+ cell separation systems. Roots-Weiss A, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1239–46

Allogeneic bone marrow transplantation from a donor with severe active rheumatoid arthritis not resulting in adoptive transfer of disease to recipient. Snowden JA, et al. **Bone Marrow Transplant** 1997 Jul;20(1):71–3

GM-CSF-mobilized peripheral blood CD34+ cells differ from steady-state bone marrow CD34+ cells in adhesion molecule expression. Watanabe T, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1175–81

Tumor-peptide-pulsed dendritic cells isolated from spleen or cultured in vitro from bone marrow precursors can provide protection against tumor challenge. Hermans IF, et al. **Cancer Immunol Immunother** 1997 Aug;44(6):341–7

Intestinal epithelial cell line induction of T cell differentiation from bone marrow precursors. Maric D, et al. **Cell Immunol** 1996 Sep 15;172(2):172–9

Immunotherapeutic potential of tumor antigen-pulsed and unpulsed dendritic cells generated from murine bone marrow. Yang S, et al. **Cell Immunol** 1997 Jul 10; 179(1):84–95

Sensitivity of combined DNA/immunophenotype flow cytometry for the detection of low levels of aneuploid lymphoblastic leukemia cells in bone marrow. Nowak R, et al. **Cytometry** 1997 Feb 15;30(1):47–53

A bursal stromal derived cytokine induces proliferation of MHC class II bearing cells. Obranovich TD, et al. **Dev Comp Immunol** 1996 Jan-Feb;20(1):61–75

Vascular cell adhesion molecule-1 expression by hematopoiesis-supporting stromal cells is not essential for lymphoid or myeloid differentiation in vivo or in vitro. Friedrich C, et al. **Eur J Immunol** 1996 Nov;26(11):2773–80

Constitutive macropinocytosis allows TAP-dependent major histocompatibility complex class I presentation of exogenous soluble antigen by bone marrow-derived dendritic cells. Norbury CC, et al. **Eur J Immunol** 1997 Jan;27(1):280–8

Human CD34+ cells do not express glutathione S-transferases alpha. Czerwinski M, et al. **Gene Ther** 1997 Mar;4(3):268–70

Clinical significance of HLA-DR+, CD19+, CD10+ immature B-cell phenotype and CD34+ cell detection in bone marrow lymphocytes from children affected with immune thrombocytopenic purpura. Callea V, et al. **Haematologica** 1997 Jul-Aug;82(4):471–3

CD5/CD19/CD23 chronic lymphocytosis [letter] Manteiga R, et al. **Haematologica** 1997 Jul-Aug;82(4):510–1

Suitability of bone marrow from HIV-1-infected donors for retrovirus-mediated gene transfer. Kearns K, et al. **Hum Gene Ther** 1997 Feb 10;8(3):301–11

Increase of eosinophilic cell population in bone marrow of rats by immunization with Ascaris suum antigen. Nittoh T, et al. **Immunol Invest** 1997 Jun;26(4):439–51

Soybean agglutinin binds a 160-kDa rat macrophage membrane glycoprotein and enhances cell differentiation and activation. Krugluger W, et al. **Immunol Lett** 1996 Aug; 52(1):53–6

The bone marrow peptide (myelopeptide-2) abolishes induced by human leukemia HL-60 cell suppression of T lymphocytes. Strelkov LA, et al. **Immunol Lett** 1996 May; 50(3):143–7

Correlation between natural killer cell activation in the bone marrow and haemopoietic dysfunction following cytomegalovirus infection of mice. Gibbons AE, et al. **Immunology** 1997 Jun;91(2):227–33

Functional lipopolysaccharide receptors of low affinity are constitutively expressed on mouse bone marrow cells. Girard R, et al. **Immunology** 1997 Jul;91(3):391–8

The tumor necrosis factor alpha-stimulating region of galactose-inhibitable lectin of Entamoeba histolytica activates gamma interferon-primed macrophages for amebicidal activity mediated by nitric oxide. Séguin R, et al. **Infect Immun** 1997 Jul;65(7):2522–7

Normal D-JH rearranged products of the IgH gene in SCID mouse bone marrow. Araki R, et al. **Int Immunol** 1996 Jul; 8(7):1045–53

Cytotoxic T lymphocytes derived from bone marrow mononuclear cells of multiple myeloma patients recognize an underglycosylated form of MUC1 mucin. Noto H, et al. **Int Immunol** 1997 May;9(5):791–8

An enhanced immunocytochemical method for staining bone marrow trephine sections. Erber WN, et al. **J Clin Pathol** 1997 May;50(5):389–93

The dominant role of bone marrow-derived cells in CTL induction following plasmid DNA immunization at different sites. Iwasaki A, et al. **J Immunol** 1997 Jul 1; 159(1):11–4

Patterns of hemopoietic reconstitution in nonobese diabetic mice: dichotomy of allogeneic resistance versus competitive advantage of disease-resistant marrow. Kaufman CL, et al. **J Immunol** 1997 Mar 1;158(5):2435–42

IL-15 can substitute for the marrow microenvironment in the differentiation of natural killer cells. Puzanov IJ, et al. **J Immunol** 1996 Nov 15;157(10):4282–5

Bone marrow can function as a lymphoid organ during a primary immune response under conditions of disrupted lymphocyte trafficking. Tripp RA, et al. **J Immunol** 1997 Apr 15;158(8):3716–20

Phenotype and function of hematopoietic-derived cells in the CNS of SCID mouse-Lewis rat bone marrow chimeras. Jones RE, et al. **J Neurosci Res** 1996 Sep 15;45(6):723–34

Comparable gene structure of the immunoglobulin heavy chain variable region between multiple myeloma and normal bone marrow lymphocytes. Kiyoi H, et al. **Leukemia** 1996 Nov;10(11):1804–12

Immunophenotype and severity of marrow failure at diagnosis of lymphoblastic leukemia [letter] Holt S, et al. **Pediatr Hematol Oncol** 1997 May-Jun;14(3):281–3

Memory B lymphocytes migrate to bone marrow in humans. Paramithiotis E, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):208–12

Bone marrow-derived dendritic cells serve as potent adjuvants for peptide-based antitumor vaccines. Mayordomo JI, et al. **Stem Cells** 1997;15(2):94–103 (59 ref.)

Distribution of the HLA-A9 antigen family (A23, A24 and A2403). Thomas M, et al. **Tissue Antigens** 1996 Nov; 48(5):586–8

Development of PCR-SSOP for HLA-A typing of bone marrow registry donors. Williams F, et al. **Tissue Antigens** 1997 Jan;49(1):61–6

No tolerance induction with cryopreserved bone marrow cells after allogeneic kidney transplantation and antilymphocyte globulin in rhesus monkeys [letter] Hollander AA, et al. **Transpl Int** 1997;10(3):249–50

Immune markers and hematopoiesis of cadaveric bone marrow for transplantation. Söderdahl G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):714–5

Murine marrow coexpressing H2-Dsp2 and H2-Db on host natural killer cell rejection. Liu J, et al. **Transplantation** 1997 Feb 15;63(3):444–9

Modulatory effects of human donor bone marrow cells on allogeneic cellular immune responses. Mathew JM, et al. **Transplantation** 1997 Mar 15;63(5):686–92

Presence of intrinsic B lymphocyte tolerance in mixed but not in complete semiallogeneic bone marrow chimeras. Salam A, et al. **Transplantation** 1997 Mar 15;63(5):699–704

Syngeneic bone marrow expressing a single donor class I MHC molecule permits acceptance of a fully allogeneic cardiac allograft. Wong W, et al. **Transplantation** 1996 Nov 27;62(10):1462–8

[Hemophagocytosis in a child with paroxysmal cold hemoglobinuria] Takeda M, et al. **Rinsho Ketsueki** 1996 Aug;37(8):707–12 (Eng. Abstr.) **(Jpn)**

[Viral hepatitis markers and the liver connective tissue, blood leukocyte and bone marrow systems in patients with chronic hepatitis] Babak OIa. **Lik Sprava** 1995 Mar-Apr; (3-4):147–9 **(Ukr)**

INNERVATION

Noradrenergic and peptidergic innervation of the mouse femur bone marrow. Tabarowski Z, et al. **Acta Histochem** 1996 Nov;98(4):453–7

Calcitonin gene-related peptide, substance P, and tyrosine hydroxylase-immunoreactive innervation of rat bone marrows: an immunohistochemical and ultrastructural investigation on possible efferent and afferent mechanisms. Imai S, et al. **J Orthop Res** 1997 Jan;15(1):133–40

METABOLISM

Long-term bone marrow cultures in polycythaemia vera and essential thrombocythaemia. Jantunen R, et al. **Acta Haematol** 1996;96(4):227–31

mRNA expression, measured by quantitative reverse transcriptase polymerase chain reaction, of five putative drug resistance parameters, in normal and leukaemic peripheral blood and bone marrow. Lohri A, et al. **Acta Haematol** 1997;98(1):1–7

Multiparameter flow-cytometric analysis of bcl-2 and Fas expression in normal and neoplastic hematopoiesis. DiGiuseppe JA, et al. **Am J Clin Pathol** 1996 Sep; 106(3):345–51

Kinetic analysis of receptor-mediated endocytosis of G-CSF derivative, nartograstim, in rat bone marrow cells. Kuwabara T, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E73–84

The effect of cigarette smoking on the bone marrow. Terashima T, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1021–6

Assessment of the composition of bone marrow prior to and following autologous BMT and PBSCT by magnetic resonance. Schick F, et al. **Ann Hematol** 1996 Jun; 72(6):361–70

Lymphadenopathy due to amyloid deposition in non-Hodgkin's lymphoma. Simmonds PD, et al. **Ann Oncol** 1997 Mar;8(3):267–70

Hematopoietic receptor complexes. Wells JA, et al. **Annu Rev Biochem** 1996;65:609–34 (103 ref.)

CD4 and CD8 antigen coexpression: a flow cytometric study of peripheral blood, bone marrow, body fluid, and solid lymphoreticular specimens. Nah EH, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):381–4

Uptake of chylomicrons by the liver, but not by the bone marrow, is modulated by lipoprotein lipase activity. Hussain MM, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1407–13

Osteocalcin (BGP), gene expression, and protein production by marrow stromal adipocytes. Benayahu D, et al **Biochem Biophys Res Commun** 1997 Feb 13;231(2):442–6

Green fluorescent protein variants as markers of retroviral-mediated gene transfer in primary hematopoietic cells and cell lines. Bierhuizen MF, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):371–5

Expression of the RET receptor tyrosine kinase and GDNFR-alpha in normal and leukemic human hematopoietic cells and stromal cells of the bone marrow microenvironment. Gattei V, et al. **Blood** 1997 Apr 15; 89(8):2925–37

The human SHIP gene is differentially expressed in cell lineages of the bone marrow and blood. Geier SJ, et al. **Blood** 1997 Mar 15;89(6):1876–85

Expression of interleukin-7 receptor by lineage-negative human bone marrow progenitors with enhanced lymphoid proliferative potential and B-lineage differentiation capacity. Ryan DH, et al. **Blood** 1997 Feb 1;89(3):929–40

Localization and regulation of thrombopoietin mRNA expression in human kidney, liver, bone marrow, and spleen using in situ hybridization. Sungaran R, et al. **Blood** 1997 Jan 1;89(1):101–7

Hepatocyte growth factor is constitutively produced by human bone marrow stromal cells and indirectly promotes hematopoiesis. Takai K, et al. **Blood** 1997 Mar 1; 89(5):1560–5

Expression of adhesion molecules in malignant plasma cells in multiple myeloma: comparison with normal plasma cells and functional significance. Helfrich MH, et al. **Blood Rev** 1997 Mar;11(1):28–38 (89 ref.)

Cellular distribution and regulation of NHE-1 isoform of the NA-H exchanger in the avian osteoclast. Gupta A, et al. **Bone** 1996 Feb;18(2):87–95

Inducible osteonecrosis in a rabbit serum sickness model: deposition of immune complexes in bone marrow. Nakata K, et al. **Bone** 1996 Jun;18(6):609–15

Rapid quantitative analysis of protein tyrosine residue phosphorylation in defined cell populations in whole blood and bone marrow aspirates. Müller C, et al. **Br J Haematol** 1996 Sep;94(3):461–3

Erythropoietin receptor expression on human bone marrow erythroid precursor cells by a newly-devised quantitative flow-cytometric assay. Shinjo K, et al. **Br J Haematol** 1997 Mar;96(3):551–8

Bone marrow stromal cell defects and 1 alpha,25-dihydroxyvitamin D3 deficiency underlying human myeloid leukemias. Blazsek I, et al. **Cancer Detect Prev** 1996;20(1):31–42

Retrovirally mediated gene transfer of Arg22 and Tyr22 forms of dihydrofolate reductase into the hematopoietic cell line K562: a comparison of methotrexate resistance. Braun SE, et al. **Cancer Gene Ther** 1997 Jan-Feb;4(1):26–32

The expression of estrogen receptor and estrogen effect in MBA-15 marrow stromal osteoblasts. Shamay A, et al. **Cell Biol Int** 1996 Jun;20(6):401–5

Human osteoclasts and preosteoclast cells (FLG 29.1) express functional c-kit receptors and interact with osteoblast and stromal cells via membrane-bound stem cell factor. Gattei V, et al. **Cell Growth Differ** 1996 Jun;7(6):753–63

Stimulator of proliferation of spleen colony-forming cells in acute sterile inflammation. Milenković P, et al. **Cell Prolif** 1993 Nov;26(6):503–10

Identification of quinol thioethers in bone marrow of hydroquinone/phenol-treated rats and mice and their potential role in benzene-mediated hematotoxicity. Bratton SB, et al. **Chem Res Toxicol** 1997 Aug;10(8):859–65

Postrenal transplant erythrocytosis, ACE inhibitors and a hypothetical local renin-angiotensin system in the bone marrow [letter; comment] Haznedaroğlu IC. **Clin Nephrol** 1997 Jul;48(1):60. Comment on: Clin Nephrol 1996 Sep;46(3):217.

Clearance of albumin by cortical bone and marrow. McCarthy ID. **Clin Orthop** 1997 Jan;(334):24–9

Induction of endotoxin tolerance in rat bone marrow cells by in vivo infusion of tumor necrosis factor. Ogle CK, et al. **Crit Care Med** 1997 May;25(5):827–33

Differential utilization of VLA-4 (alpha 4 beta 1) and -5 (alpha 5 beta 1) integrins during the development of mouse bone marrow-derived mast cells. Fehlner-Gardiner CC, et al. **Differentiation** 1996 Sep;60(5):317–25

Growth hormone expression in murine bone marrow cells is independent of the pituitary transcription factor Pit-1. Kooijman R, et al. **Endocrinology** 1997 Sep;138(9):3949–55

Prolactin receptor expression during adipocyte differentiation of bone marrow stroma. McAveney KM, et al. **Endocrinology** 1996 Dec;137(12):5723–6

Cell-specific activation and detoxification of benzene metabolites in mouse and human bone marrow: identification of target cells and a potential role for modulation of apoptosis in benzene toxicity. Ross D, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1177–82

Spontaneous and inducible production of macrophage colony-stimulating factor by human bone marrow stromal cells. Fixe P, et al. **Eur Cytokine Netw** 1997 Mar;8(1):91–5

Leukemia inhibitory factor concentrations in the bone marrow plasma of healthy subjects and patients with hematologic malignancies. Lorgeot V, et al. **Eur Cytokine Netw** 1997 Mar;8(1):57–9

High-level expression of the ER-MP58 antigen on mouse bone marrow hematopoietic progenitor cells marks commitment to the myeloid lineage. de Bruijn MF, et al.

Eur J Immunol 1996 Dec;26(12):2850–8

Fibronectin distribution in human bone marrow stroma: matrix assembly and tumor cell adhesion via alpha5 beta1 integrin. Van der Velde-Zimmermann D, et al. **Exp Cell Res** 1997 Jan 10;230(1):111–20

PAF and hematopoiesis. VIII. Biosynthesis and metabolism of PAF by human bone marrow stromal cells. Denizot Y, et al. **Exp Hematol** 1996 Sep;24(11):1327–32

Production and consumption of the tetrapeptide AcSDKP, a negative regulator of hematopoietic stem cells, by hematopoietic microenvironmental cells. Li J, et al. **Exp Hematol** 1997 Feb;25(2):140–6

Mouse bone marrow stromal cell line MC3T3-G2/PA6 with hematopoietic-supporting activity expresses high levels of stem cell antigen Sca-1. Satoh M, et al. **Exp Hematol** 1997 Aug;25(9):972–9

Cloning and functional analysis of the hematopoietic cell-specific phospholipase C(gamma)2 promoter. Kang JS, et al. **FEBS Lett** 1996 Dec 9;399(1–2):14–20

Expression of bcl-2 protein in distinguishing benign from malignant lymphoid aggregates in bone marrow biopsies. Fakan F, et al. **Gen Diagn Pathol** 1996 May;141(5–6):359–63

Measurement of catecholamines in mouse bone marrow by means of HPLC with electrochemical detection. Marino F, et al. **Haematologica** 1997 Jul-Aug;82(4):392–4

Differential expression of BCL-2 oncoprotein and Fas antigen on normal peripheral blood and leukemic bone marrow cells. A flow cytometric analysis. Molica S, et al. **Haematologica** 1996 Jul-Aug;81(4):302–9

The ex vivo expansion capacity of normal human bone marrow cells is dependent on experimental conditions: role of the cell concentration, serum and CD34+ cell selection in stroma-free cultures. Poloni A, et al. **Hematol Cell Ther** 1997 Apr;39(2):49–58

Immunohistochemical study of Ulex europaeus agglutinin 1 (UEA-1) binding of megakaryocytes in bone marrow biopsy specimens: demonstration of heterogeneity in staining pattern reflecting the stages of differentiation. Liu SM, et al. **Hematopathol Mol Hematol** 1996;10(1–2):99–109

IL-4 upregulates IL-1-induced chemokine gene expression in bone marrow stromal cells by enhancing NF-kB activation. Pindolia KR, et al. **Hematopathol Mol Hematol** 1996;10(4):171–85

BCR ligation induces receptor editing in IgM+IgD- bone marrow B cells in vitro. Hertz M, et al. **Immunity** 1997 Apr;6(4):429–36

Galectin-3 inhibits granulocyte-macrophage colony-stimulating factor (GM-CSF)-driven rat bone marrow cell proliferation and GM-CSF-induced gene transcription. Krugluger W, et al. **Immunobiology** 1997 Jun; 197(1):97–109

Pharmacological analysis of the inflammatory exudate-induced histamine production in bone marrow cells. Hirasawa N, et al. **Immunopharmacology** 1997 Apr; 36(1):87–94

Preferential inhibitory effect of soluble factor(s) in human bone marrow stromal cells on proliferation of K562 leukemia cells versus normal myeloid progenitor cells. Aoyagi A, et al. **Int J Hematol** 1996 Apr;63(3):205–13

Lack of influence of a long-term high or low vitamin E diet on the oxidative DNA damage in the bone marrow of mice. Umegaki K, et al. **Int J Vitam Nutr Res** 1997; 67(3):149–54

Interaction of WW domains with hematopoietic transcription factor p45/NF-E2 and RNA polymerase II. Gavva NR, et al. **J Biol Chem** 1997 Sep 26;272(39):24105–8

Identification of the major positive regulators of c-myb expression in hematopoietic cells of different lineages. Sullivan J, et al. **J Biol Chem** 1997 Jan 17;272(3):1943–9

Involvement of different second messengers in parathyroid hormone- and interleukin-1-induced interleukin-6 and interleukin-11 production in human bone marrow stromal cells. Kim GS, et al. **J Bone Miner Res** 1997 Jun; 12(6):896–902

Induction of IL-6 production by bone marrow stromal cells on the adhesion of IL-6-dependent hematopoietic cells. Ogasawara H, et al. **J Cell Physiol** 1996 Oct;169(1):209–16

Soluble factor(s) produced by adult bone marrow stroma inhibit in vitro proliferation and differentiation of fetal liver BFU-E by inducing apoptosis. Roy V, et al. **J Clin Invest** 1997 Aug 15;100(4):912–20

Activation of the aryl hydrocarbon receptor/transcription factor and bone marrow stromal cell-dependent preB cell apoptosis. Yamaguchi K, et al. **J Immunol** 1997 Mar 1; 158(5):2165–73

PAF and haematopoiesis: IX. Platelet-activating factor increases DNA synthesis in human bone marrow cells. Denizot Y, et al. **J Lipid Mediat Cell Signal** 1996 Dec; 15(1):1–4

Presence and metabolism of lyso platelet-activating factor in human bone marrow. Denizot Y, et al. **J Lipid Mediat Cell Signal** 1997 May;16(1):53–62

Expression of growth factor ligand and receptor genes in rat cancellous bone trabeculae and marrow. Watson PH, et al. **J Mol Endocrinol** 1996 Aug;17(1):45–54

Cells involved in the capture of nanoparticles in hematopoietic organs. Gibaud S, et al. **J Pharm Sci** 1996 Sep;85(9):944–50

Melatonin-induced T-helper cell hematopoietic cytokines resembling both interleukin-4 and dynorphin. Maestroni GJ, et al. **J Pineal Res** 1996 Oct;21(3):131–9

Elevated levels of inflammatory cytokines in bone marrow of patients with rheumatoid arthritis and anemia of chronic disease. Jongen-Lavrencic M, et al. **J Rheumatol** 1997 Aug; 24(8):1504–9

Osteoclastogenesis in iliac bone marrow of patients with rheumatoid arthritis. Toritsuka Y, et al. **J Rheumatol** 1997 Sep;24(9):1690–6

Distribution of lectin binding sites in human bone marrow. Identification by use of an ultrastructural postembedding technique. Kuemmel TA, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):537–51

An improved postembedding technique for ultrastructural studies of lectin binding sites in bone marrow: a critical evaluation. Kuemmel TA, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):197–208

Low-molecular-weight heparin (dalteparin) demonstrated a weaker effect on rat bone metabolism compared with heparin. Nishiyama M, et al. **Jpn J Pharmacol** 1997 May; 74(1):59–68

Bone marrow uptake of fluorine-18-fluorodeoxyglucose following treatment with hematopoietic growth factors: initial evaluation. Knopp MV, et al. **Nucl Med Biol** 1996 Aug;23(6):845–9

Expression of bone marrow stromal cell specific antigen during murine development: its expression in embryonic hematopoietic tissues as well as in other developing tissues. Akasaka Y, et al. **Pathol Int** 1996 Apr;46(4):243–52

Production and metabolism of platelet-activating factor by human bone marrow cells. Dupuis F, et al. **Res Immunol** 1997 Feb;148(2):119–26

The pivotal role of interleukin 6 in formation and function of hematopoietically active murine long-term bone marrow cultures. Hauser SP, et al. **Stem Cells** 1997;15(2):125–32

IL-2 receptor gamma chain expression on CD34 positive hematopoietic progenitor cells from bone marrow and cord blood. Itano M, et al. **Tohoku J Exp Med** 1996 Apr; 178(4):389–98

Effect of the route of benzo[a]pyrene administration on sister chromatid exchange and DNA binding in bone marrow of mice differing with respect to cytochrome P450 1A1 induction. Brauze D, et al. **Toxicol Lett** 1997 May 16; 91(3):211–7

Murine marrow coexpressing H2-Dsp2 and H2-Db on host natural killer cell rejection. Liu J, et al. **Transplantation** 1997 Feb 15;63(3):444–9

Prostate-specific antigen-producing cells in the bone marrow of a patient with early-stage prostate cancer. D'Amico AV, et al. **Urology** 1997 Feb;49(2):279–82 (17 ref.)

[Regenerating hematopoietic tissue as a source for a low molecular weight factor that inhibits leukemic cell proliferation] Sheleg SV, et al. **Biokhimiia** 1996 Apr; 61(4):621–8 (Eng. Abstr.) **(Rus)**

[Generation of oxygen free radicals and clastogenesis in bone marrow cells of MRL/1 mice] Guseva NV, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):22–5 **(Rus)**

MICROBIOLOGY

Utility of bone marrow culture and biopsy in the diagnosis of disseminated infections in AIDS. Keiser P, et al. **Am J Hematol** 1997 Sep;56(1):1–4

Bone marrow biopsy in the diagnosis of fever of unknown origin in patients with acquired immunodeficiency syndrome. Benito N, et al. **Arch Intern Med** 1997 Jul 28; 157(14):1577–80

Prolonged incubation of blood and bone marrow cultures in 12B bottles processed on the BACTEC 460 TB system does not increase microbial recovery. Wilson ML, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):113–5

Detection of adeno-associated virus type 2 in sorted human bone marrow progenitor cells. Anderson RJ, et al. **Exp Hematol** 1997 Mar;25(3):256–62

The diagnostic value of the diatom test for drowning, II. Validity: analysis of diatoms in bone marrow and drowning medium. Pollanen MS. **J Forensic Sci** 1997 Mar; 42(2):286–90

The significance of microbial cultures of the hematopoietic support for patients receiving high-dose chemotherapy. Cohen A, et al. **J Hematother** 1996 Jun;5(3):289–94

Bacterial contamination of autologous bone marrow during processing [letter; comment] Farrington M, et al. **J Hosp Infect** 1996 Nov;34(3):230–3. Comment on: J Hosp Infect 1996 May;33(1):71–6.

Bacterial contamination of autologous bone marrow during processing [see comments] Smith D, et al. **J Hosp Infect** 1996 May;33(1):71–6. Comment in: J Hosp Infect 1996 Sep;34(1):77–8. Comment in: J Hosp Infect 1996 Nov;34(3):230–3.

Bacterial contamination of autologous bone marrow during processing [letter; comment] Wilcox MH. **J Hosp Infect** 1996 Sep;34(1):77–8. Comment on: J Hosp Infect 1996 May;33(1):71–6.

Demonstration of acid-fast bacilli in buffy coat and bone marrow smear--a diagnostic tool in pulmonary tuberculosis. Sen R, et al. **J Indian Med Assoc** 1996 Oct; 94(10):379–80, 390

PCR on disseminated tuberculosis in bone marrow and liver biopsy specimens: correlation to histopathological and clinical diagnosis. Akcan Y, et al. **Scand J Infect Dis** 1997; 29(3):271–4

[A case of acquired immunodeficiency syndrome with disseminated Mycobacterium avium complex infection in which M. avium was isolated from bone marrow] Ohse H, et al. **Kekkaku** 1997 Feb;72(2):73–7 (Eng. Abstr.) **(Jpn)**

PARASITOLOGY

Reversible suppression of bone marrow response to erythropoietin in Plasmodium falciparum malaria. Kurtzhals JA, et al. **Br J Haematol** 1997 Apr;97(1):169–74

Bone marrow changes in human malaria: a retrospective study. Gandapur AS, et al. **JPMA J Pak Med Assoc** 1997 May;47(5):137–9

A case of kala-azar diagnosed by bone marrow aspiration. Hamidah NH, et al. **Malays J Pathol** 1995 Jun;17(1):39–41

PATHOLOGY

Beta-1-integrin expression in adult acute lymphoblastic leukemia: possible relationship with the stem cell antigen CD34. Cacciola RR, et al. **Acta Haematol** 1997; 97(1–2):63–6 (41 ref.)

The role of adhesion molecules in multiple myeloma. Cook G, et al. **Acta Haematol** 1997;97(1–2):81–9 (65 ref.)

Therapy-related chronic myelomonocytic leukaemia with bone marrow eosinophilia associated with der(11)t(1;11)(q21;q14). Muroi K, et al. **Acta Haematol** 1996;96(4):251–4

Relationship between the type of BCR-ABL rearrangement and bone marrow histopathological features in chronic myeloid leukemia. Colleoni GW, et al. **Acta Oncol** 1997; 36(3):313–5

Detection of occult tumour cells in bone marrow and blood in breast cancer patients--methods and clinical significance. Kvalheim G. **Acta Oncol** 1996;35 Suppl 8:13–8 (31 ref.)

Iron overload in reticuloendothelial systems of pediatric oncology patients who have undergone transfusions: MR observations. Emy PY, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):1011–5

Contrast enhancement and quantitative signal analysis in MR imaging of multiple myeloma: assessment of focal and diffuse growth patterns in marrow correlated with biopsies and survival rates. Stäbler A, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1029–36

Multiple myeloma with hairy cell-like features. Algino KM, et al. **Am J Clin Pathol** 1997 Jun;107(6):665–71

Acute myeloid leukemia with t(6;9) (p23;q34): association with myelodysplasia, basophilia, and initial CD34 negative immunophenotype. Alsabeh R, et al. **Am J Clin Pathol** 1997 Apr;107(4):430–7

Paraffin section immunophenotyping of acute leukemias in bone marrow specimens. Arber DA, et al. **Am J Clin Pathol** 1996 Oct;106(4):462–8

Useful panel of antibodies for the classification of acute leukemia by immunohistochemical methods in bone marrow trephine biopsy specimens. Chuang SS, et al. **Am J Clin Pathol** 1997 Apr;107(4):410–8

Posttransplantation lymphoproliferative disorders in bone marrow transplant recipients are aggressive diseases with a high incidence of adverse histologic and immunobiologic features. Orazi A, et al. **Am J Clin Pathol** 1997 Apr; 107(4):419–29

Application of high-performance liquid chromatography/mass spectrometry to drug screening. Higuchi T, et al. **Am J Forensic Med Pathol** 1996 Mar; 17(1):21–3

Comparative utility of diagnostic bone-marrow components: a 10-year study. Barekman CL, et al. **Am J Hematol** 1997 Sep;56(1):37–41

Inhibition of marrow CFU-E colony formation from human immunodeficiency virus-infected patients by beta- and gamma-interferon. Dallalio G, et al. **Am J Hematol** 1996 Oct;53(2):118–20

Correlation between CD34 expression and chromosomal abnormalities but not clinical outcome in acute myeloid leukemia. Fruchart C, et al. **Am J Hematol** 1996 Nov; 53(3):175–80

Implications of prominent cytologic dysplasia persisting in the marrow of a patient with CML even after the spontaneous disappearance of the Philadelphia chromosome [letter] Janković GM, et al. **Am J Hematol** 1996 Jul;52(3):234–5

Analysis of intramedullary cell density by MRI using the multiple spin-echo technique. Masumoto A, et al. **Am J Hematol** 1997 Jul;55(3):134–8

Bone marrow granulomas associated with chronic natural killer cell lymphocytosis. Tefferi A, et al. **Am J Hematol** 1997 Mar;54(3):258–62

Hemophagocytosis by rhabdomyosarcoma cells in bone marrow [letter] Tsoi WC, et al. **Am J Hematol** 1997 Apr; 54(4):340–2

Myelodysplastic features in juvenile rheumatoid arthritis. Yetgin S, et al. **Am J Hematol** 1997 Feb;54(2):166–9

Immunotactoid-like glomerulopathy with massive fibrillary deposits in liver and bone marrow in monoclonal gammopathy. Strøm EH, et al. **Am J Nephrol** 1996; 16(6):523–8

Flow cytometric analysis of mast cells from normal and pathological human bone marrow samples: identification and enumeration. Orfao A, et al. **Am J Pathol** 1996 Nov; 149(5):1493–9

Immunocytochemical detection of isolated epithelial tumor cells in bone marrow of patients with pancreatic carcinoma. Thorban S, et al. **Am J Surg** 1996 Sep;172(3):297–8

Correlation of PCR-detected clonal gene rearrangements with bone marrow morphology in patients with B-lineage lymphomas. Coad JE, et al. **Am J Surg Pathol** 1997 Sep; 21(9):1047–56

Correlation of clinical and hematologic profiles with bone marrow responses in typhoid fever. James J, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):313–6

Lymphoid infiltrates in B cell non Hodgkin's lymphoma: comparing nuclear characteristics between lymph node and bone marrow; and evaluating diagnostic features of bone marrow infiltrates in paraffin embedded tissues. Deverell MH, et al. **Anal Cell Pathol** 1997;14(1):1–7

AIDS-related bone marrow lesions--myelodysplastic features or predominant inflammatory-reactive changes (HIV-myelopathy)? A comparative morphometric study by immunohistochemistry with special emphasis on apoptosis and PCNA-labeling. Thiele J, et al. **Anal Cell Pathol** 1996 Aug;11(3):141–57

Investigation of bone developmental and histopathologic changes from intraosseous infusion. Brickman KR, et al. **Ann Emerg Med** 1996 Oct;28(4):430–5

Assessment of the composition of bone marrow prior to and following autologous BMT and PBSCT by magnetic resonance. Schick F, et al. **Ann Hematol** 1996 Jun; 72(6):361–70

Agranulocytosis, plasmacytosis, and thrombocytosis followed by a leukemoid reaction due to acute acetaminophen toxicity. Gürsoy M, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):762–5

Bone marrow-derived dendritic cells, infection with human immunodeficiency virus, and immunopathology. Knight SC, et al. **Annu Rev Immunol** 1997;15:593–615 (103 ref.)

The human immunodeficiency virus type 1 Tat protein potentiates zidovudine-induced cellular toxicity in transgenic mice. Prakash O, et al. **Arch Biochem Biophys** 1997 Jul 15;343(2):173–80

Bone marrow trephine biopsy in infants. European Neuroblastoma Study Group. Reid MM, et al. **Arch Dis Child** 1997 Jul;77(1):60–1

Bone marrow and renal injury associated with haloalkene cysteine conjugates in calves. Lock EA, et al. **Arch Toxicol** 1996;70(10):607–19

The significance of tumor contamination in the bone marrow from high-risk primary breast cancer patients treated with high-dose chemotherapy and hematopoietic support. Vredenburgh JJ, et al. **Biol Blood Marrow Transplant** 1997 Jun;3(2):91–7

Infection of human marrow stroma by human immunodeficiency virus-1 (HIV-1) is both required and sufficient for HIV-1-induced hematopoietic suppression in vitro: demonstration by gene modification of primary human stroma. Bahner I, et al. **Blood** 1997 Sep 1; 90(5):1787–98

Role of interleukin-2 (IL-2), IL-7, and IL-15 in natural killer cell differentiation from cord blood hematopoietic progenitor cells and from gamma c transduced severe combined immunodeficiency X1 bone marrow cells. Cavazzana-Calvo M, et al. **Blood** 1996 Nov 15; 88(10):3901–9

Impaired generation of bone marrow B lymphocytes in mice deficient in C/EBPbeta. Chen X, et al. **Blood** 1997 Jul 1; 90(1):156–64

Retroviral gene transduction of adult peripheral blood or marrow-derived CD34+ cells for six hours without growth factors or on autologous stroma does not improve marking efficiency assessed in vivo. Emmons RV, et al. **Blood** 1997 Jun 1;89(11):4040–6

Erythroblastic inclusions in dominantly inherited beta thalassemias. Ho PJ, et al. **Blood** 1997 Jan 1;89(1):322–8

Mice bearing a targeted interruption of the homeobox gene HOXA9 have defects in myeloid, erythroid, and lymphoid hematopoiesis. Lawrence HJ, et al. **Blood** 1997 Mar 15; 89(6):1922–30

Long-term malignant hematopoiesis in human acute leukemia bone marrow biopsies implanted in severe combined immunodeficiency mice. Legrand F, et al. **Blood** 1997 Sep 1;90(5):2001–9

Patterns of hematopoietic lineage involvement in children with neurofibromatosis type 1 and malignant myeloid disorders. Miles DK, et al. **Blood** 1996 Dec 1; 88(11):4314–20

Neutrophil secondary-granule deficiency as a hallmark of all-trans retinoic acid-induced differentiation of acute promyelocytic leukemia cells. Miyauchi J, et al. **Blood** 1997 Jul 15;90(2):803–13

Magnetic resonance imaging of the bone marrow in hematologic malignancies. Moulopoulos LA, et al. **Blood** 1997 Sep 15;90(6):2127–47 (92 ref.)

Indication of an involvement of interleukin-1 beta converting enzyme-like protease in intramedullary apoptotic cell death in the bone marrow of patients with myelodysplastic syndromes. Mundle SD, et al. **Blood** 1996 Oct 1; 88(7):2640–7

Potential and distribution of transplanted hematopoietic stem cells in a nonablated mouse model. Nilsson SK, et al. **Blood** 1997 Jun 1;89(11):4013–20

Altered oncoprotein expression and apoptosis in myelodysplastic syndrome marrow cells. Rajapaksa R, et al. **Blood** 1996 Dec 1;88(11):4275–87

Clinical and prognostic significance of femoral marrow magnetic resonance imaging in patients with malignant lymphoma. Tsunoda S, et al. **Blood** 1997 Jan 1;89(1):286–90

The development of a model for the homing of multiple myeloma cells to human bone marrow. Urashima M, et al. **Blood** 1997 Jul 15;90(2):754–65

Fate of contaminating t(14; 18)+ lymphoma cells during ex vivo expansion of CD34-selected hematopoietic progenitor cells. Widmer L, et al. **Blood** 1996 Oct 15;88(8):3166–75

Long-term hematopoietic culture-initiating cells are more abundant in mobilized peripheral blood grafts than in bone marrow but have a more limited ex vivo expansion potential. Srour EF, et al. **Blood Cells Mol Dis** 1996; 22(1):68–81

Lymphocytosis of donor origin in cerebrospinal fluid, and marrow aplasia after donor leukocyte infusion for EBV-lymphoproliferative disease. Gharpure V, et al. **Bone Marrow Transplant** 1996 Jul;18(1):221–4

Proliferation of macrophage-lineage cells in the bone marrow, severe thymic atrophy, and extramedullary hematopoiesis of possible donor origin in an autopsy case of post-transplantation graft-versus-host disease. Kazama T, et al. **Bone Marrow Transplant** 1996 Aug;18(2):437–41

Autologous peripheral blood progenitor cell transplantation for non-Hodgkin's lymphoma with extensive bone marrow necrosis. Khan AM, et al. **Bone Marrow Transplant** 1997 May;19(10):1037–9

Anti-host cytotoxic T cells of bone marrow transplant recipients with or without graft-versus-host disease are equally sensitive to cyclosporin A. Liem LM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):73–8

IL-2 effects on allogeneic and autologous transplant haemopoietic progenitors in long-term cultures. López-Jiménez J, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):899–905

Detection of a dormant 20q- leukemia clone in bone marrow cultures with hematopoietic growth factors: implications for secondary leukemia post-transplant. Redei I, et al. **Bone Marrow Transplant** 1997 Mar;19(5):521–3

Peripheral blood stem cells mobilized from patients with acute myeloid leukaemia have different platelet repopulating abilities compared with those mobilized from patients with other diseases. Roberts MM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):41–5

Quantitative comparison of multiple myeloma tumor contamination in bone marrow harvest and leukapheresis autografts. Vescio RA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):103–10

Controls for studies of leukaemic blasts: appropriate material and interpretation of data [letter; comment] Bowen D. **Br J Haematol** 1997 Apr;97(1):244–5. Comment on: Br J Haematol 1996 Nov;95(2):426–31.

Cytogenetic study of 30 patients with multiple myeloma: comparison of 3 and 6 day bone marrow cultures stimulated or not with cytokines by using a miniaturized karyotypic method. Brigaudeau C, et al. **Br J Haematol** 1997 Mar; 96(3):594–600

Increased apoptotic cells in bone marrow biopsies from patients with aplastic anaemia. Callera F, et al. **Br J Haematol** 1997 Jul;98(1):18–20

Evaluation of DNA analysis for evidence of apoptosis in megaloblastic anaemia. Ingram CF, et al. **Br J Haematol** 1997 Mar;96(3):576–83

Bone marrow assessment in B-cell chronic lymphocytic leukaemia: aspirate or biopsy? [letter; comment] Jarque I, et al. **Br J Haematol** 1996 Dec;95(4):754–5. Comment on: Br J Haematol 1996 Apr;93(1):111–6.

Increased numbers of bone marrow blasts in acute myeloid leukaemia patients treated with G-CSF after chemotherapy [letter] Kaddar A, et al. **Br J Haematol** 1997 Aug; 98(2):492–3

Analysis of T-cell clonality in bone marrow of patients with acquired aplastic anaemia. Melenhorst JJ, et al. **Br J Haematol** 1997 Jan;96(1):85–91

Purified unfractionated G-CSF/chemotherapy mobilized CD34+ peripheral blood progenitors and not bone marrow CD34+ progenitors undergo selective erythroid differentiation in liquid culture in the presence of erythropoietin and stem cell factor. Pierelli L, et al. **Br J Haematol** 1997 Jan;96(1):55–63

High-dose therapy with peripheral blood stem cell transplantation results in a significant reduction of the haemopoietic progenitor cell compartment. Voso MT, et al. **Br J Haematol** 1996 Sep;94(4):759–66

Immunocytochemical detection of breast cancer cells in marrow and peripheral blood of patients undergoing high dose chemotherapy with autologous stem cell support. Franklin WA, et al. **Breast Cancer Res Treat** 1996; 41(1):1–13

Azathioprine-induced bone marrow toxicity in four dogs. Rinkardt NE, et al. **Can Vet J** 1996 Oct;37(10):612–3

Molecular cytogenetic analysis of cytokeratin 20-labeled cells in primary tumors and bone marrow aspirates from colorectal carcinoma patients. Litle VR, et al. **Cancer** 1997 May 1;79(9):1664–70

Interleukin-3 plus interleukin-6 may improve chromosomal analysis of multiple myeloma: cytologic and cytogenetic evidence in thirty-four patients. Cuneo A, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):171–5

XYY male and hematologic malignancy. Oguma N, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):179–81 (22 ref.)

In vitro proliferative advantage of bone marrow cells with tetrasomy 8 in Ewing sarcoma. Trakhtenbrot L, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):176–8

Comparative analysis of bone marrow and venous blood isolates from gastrointestinal cancer patients for the detection of disseminated tumor cells using reverse transcription PCR. Soeth E, et al. **Cancer Res** 1997 Aug 1;57(15):3106–10

Early ultrastructural alterations in rats after administration of 239Pu-citrate. Thannoo DR, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 May;42(3):431–8

Improved reverse transcriptase-polymerase chain reaction protocol with exogenous internal competitive control for prostate-specific antigen mRNA in blood and bone marrow. Corey E, et al. **Clin Chem** 1997 Mar;43(3):443–52

Primary prostatic epithelial cell binding to human bone marrow stroma and the role of alpha2beta1 integrin. Lang SH, et al. **Clin Exp Metastasis** 1997 May;15(3):218–27

The role of midazolam-induced sedation in bone marrow aspiration/trephine biopsies. Mainwaring CJ, et al. **Clin Lab Haematol** 1996 Dec;18(4):285–8

Case report: serous atrophy of bone marrow and subcutaneous tissue enhancement associated with recurrent rectal carcinoma: MR appearances. Amano Y, et al. **Comput Med Imaging Graph** 1996 May–Jun;20(3):183–5

Magnetic resonance imaging (MRI) of the knee: a pattern approach for evaluating bone marrow edema. Yu JS, et al. **Crit Rev Diagn Imaging** 1996 Sep;37(4):261–303 (51 ref.)

Acute promyelocytic leukemia in the course of acromegaly: a case report. Beyan C, et al. **Endocr J** 1996 Oct;43(5):565–8

Differences in cell lineage involvement between MDS-AML and de novo AML studied by fluorescence in situ hybridization in combination with morphology. Bernell P, et al. **Eur J Haematol** 1997 Apr;58(4):241–5

Decreased IL-1 beta and TNF alpha secretion in long-term bone marrow culture supernatant from Fanconi's anaemia patients. de Cremoux P, et al. **Eur J Haematol** 1996 Sep; 57(3):202–7

Adhesive interactions between tumour cells and bone marrow stromal elements in human multiple myeloma. Faid L, et al. **Eur J Haematol** 1996 Nov;57(5):349–58

Long-term bone marrow cultures in aplastic anaemia. Marsh JC. **Eur J Haematol Suppl** 1996;60:75–9 (23 ref.)

Bone marrow lesions: evaluation with fat-suppression turbo spin echo MR imaging at 0.5 T. Chrysikopoulos H, et al. **Eur Radiol** 1996;6(6):895–9

Bone marrow relaxation times in Gaucher disease before and after enzyme replacement therapy. Magnaldi S, et al. **Eur Radiol** 1997;7(4):486–91

Benzene-induced hematotoxicity and bone marrow compensation in B6C3F1 mice. Farris GM, et al. **Fundam Appl Toxicol** 1997 Apr;36(2):119–29

Expression of bcl-2 protein in distinguishing benign from malignant lymphoid aggregates in bone marrow biopsies. Fakan F, et al. **Gen Diagn Pathol** 1996 May;141(5–6):359–63

Isolated tumor cells in the bone marrow: value of a new diagnostic method in the TNM-staging of solid tumors. Werner M, et al. **Gen Diagn Pathol** 1996 Jun;142(1):1–6 (53 ref.)

Micrometastases: are they clinically significant disease?[comment] Andreyev HJ, et al. **Gut** 1997 Apr; 40(4):555–6. Comment on: Gut 1997 Apr;40(4):512–5.

Micrometastases: marker of metastatic potential or evidence of residual disease?[see comments] O'Sullivan GC, et al. **Gut** 1997 Apr;40(4):512–5. Comment in: Gut 1997 Apr;40(4):555–6.

Association between non-Hodgkin's lymphoma and essential thrombocythemia. Carulli G, et al. **Haematologica** 1997 May–Jun;82(3):382

Bone marrow T-cell subsets in patients with monoclonal gammopathies: correlation with clinical stage and disease status. Corso A, et al. **Haematologica** 1997 Jan–Feb; 82(1):43–6

Clinical and prognostic evaluation of bone marrow infiltration (biopsy versus aspirate) in early chronic lymphocytic leukemia. A single center study. Molica S, et al. **Haematologica** 1997 May–Jun;82(3):286–90

Estimation of bone marrow cellularity by means of vertebral magnetic resonance. Rozman M, et al. **Haematologica** 1997 Mar–Apr;82(2):166–70

Expansion of polyclonal B-cell precursors in bone marrow from children treated for acute lymphoblastic leukemia. Duval M, et al. **Hematol Cell Ther** 1997 Jun;39(3):139–47

Effects of interferon treatment on the macrophage population in the bone marrow of patients with Ph1+-CML. Thiele J, et al. **Hematopathol Mol Hematol** 1996;10(4):201–12

Description of primordial germ cells, oogonia, oocytes and embryo-like growth in squash preparations of tissues from hematological malignancies. Logothetou-Rella H. **Histol Histopathol** 1996 Oct;11(4):965–84

Meiosis in hematological malignancies. In situ cytogenetic morphology. Logothetou-Rella H. **Histol Histopathol** 1996 Oct;11(4):943–63

Histopathological changes in bone marrow biopsies from patients with chronic myeloid leukaemia after treatment with recombinant alpha-interferon. Facchetti F, et al. **Histopathology** 1997 Jul;31(1):3–11

Intrasinusoidal bone marrow infiltration: a possible hallmark of splenic lymphoma. Franco V, et al. **Histopathology** 1996 Dec;29(6):571–5

Incidence of apoptosis in HIV-myelopathy, myelodysplastic syndromes and non-specific inflammatory lesions of the bone marrow. Thiele J, et al. **Histopathology** 1997 Apr; 30(4):307–11

B-lineage cell deficits in bone marrow of lpr/lpr mice. Sundblad A, et al. **Int Immunol** 1996 Feb;8(2):247–54

Myelodysplastic changes in three cases within 100 days after allogeneic bone marrow transplantation. Okamoto T, et al. **Int J Hematol** 1996 Feb;63(2):155–60

Prediction of bone marrow involvement in patients with

malignant lymphoma by GM-CSF stimulation test. Unal A, et al. **Int J Hematol** 1996 Oct;64(3-4):297-300

Abnormalities in the bone marrow of the iliac crest in patients who have osteonecrosis secondary to corticosteroid therapy or alcohol abuse. Hernigou P, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1047-53

Assessment of cancellous bone structure: comparison of strut analysis, trabecular bone pattern factor, and marrow space star volume. Croucher PI, et al. **J Bone Miner Res** 1996 Jul;11(7):955-61

Selective transgene expression for detection and elimination of contaminating carcinoma cells in hematopoietic stem cell sources [see comments] Chen L, et al. **J Clin Invest** 1996 Dec 1;98(11):2539-48. Comment in: J Clin Invest 1996 Dec 1;98(11):2435.

When bad gene transfer is good [editorial; comment] Wilson JM. **J Clin Invest** 1996 Dec 1;98(11):2435. Comment on: J Clin Invest 1996 Dec 1;98(11):2539-48.

Comparative diagnostic accuracy of magnetic resonance imaging and immunoscintigraphy for detection of bone marrow involvement in patients with malignant lymphoma. Altehoefer C, et al. **J Clin Oncol** 1997 May;15(5):1754-60

Detection of metastatic neuroblastoma in bone marrow: when is routine marrow histology insensitive? Cheung NK, et al. **J Clin Oncol** 1997 Aug;15(8):2807-17

Haematological validation of a computer-based bone marrow reporting system. Nguyen DT, et al. **J Clin Pathol** 1997 May;50(5):375-8

Bone marrow necrosis in antiphospholipid syndrome. Paydas S, et al. **J Clin Pathol** 1997 Mar;50(3):261-2

Bcl-2 protein does not help to distinguish benign from malignant lymphoid nodules in bone marrow biopsy specimens [letter; comment] Skálová A, et al. **J Clin Pathol** 1997 Jan;50(1):87-8. Comment on: J Clin Pathol 1995 Nov;48(11):1035-8.

Immunohistopathological study of African swine fever (strain E-75)-infected bone marrow. Rodríguez F, et al. **J Comp Pathol** 1996 May;114(4):399-406

Acute myeloblastic leukaemia in a cow. Takayama H, et al. **J Comp Pathol** 1996 Jul;115(1):95-101

Proton MR imaging and spectroscopy evaluation of aplastic anemia: three bone marrow patterns. Amano Y, et al. **J Comput Assist Tomogr** 1997 Mar-Apr;21(2):286-92

Red marrow recolonization induced by growth factors mimicking an increase in tumor volume during preoperative chemotherapy: MR study. Vanel D, et al. **J Comput Assist Tomogr** 1997 Jul-Aug;21(4):529-31

Tumor cell contamination of bone marrow harvest products: clinical consequences in a cohort of advanced-stage breast cancer patients undergoing high-dose chemotherapy. Brockstein BE, et al. **J Hematother** 1996 Dec;5(6):617-24

Immunomagnetic techniques for the enrichment and detection of isolated breast carcinoma cells in bone marrow and peripheral blood. Naume B, et al. **J Hematother** 1997 Apr;6(2):103-14

Harvest quality and factors affecting collection and engraftment of CD34+ cells in patients with breast cancer scheduled for high-dose chemotherapy and peripheral blood progenitor cell support. Papadopoulos KP, et al. **J Hematother** 1997 Feb;6(1):61-8

Classical morphology, esterase cytochemistry, and interphase cytogenetics of peripheral blood and bone marrow smears. Jacobsson B, et al. **J Histochem Cytochem** 1996 Nov; 44(11):1303-9

Apoptosis during B lymphopoiesis in mouse bone marrow. Lu L, et al. **J Immunol** 1997 Jun 1;158(11):5136-45

Impaired tyrosine phosphorylation and Ca2+ mobilization, but not degranulation, in lyn-deficient bone marrow-derived mast cells. Nishizumi H, et al. **J Immunol** 1997 Mar 1;158(5):2350-5

Both multiorgan inflammation and myeloid hyperplasia in RelB-deficient mice are T cell dependent. Weih F, et al. **J Immunol** 1996 Nov 1;157(9):3974-9

Initial experience with dynamic MR imaging in evaluation of normal bone marrow versus malignant bone marrow infiltrations in humans. Bollow M, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):241-50

Determination of 1H relaxation times of water in human bone marrow by fat-suppressed turbo spin echo in comparison to MR spectroscopic methods. Träber F, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):541-8

Transient multiple cranial nerve involvement as a first sign of macrophage activation syndrome [letter] Rumbach L, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):292-3

Three-dimensional reconstruction of non-Hodgkin's lymphoma in bone marrow trephines. Salisbury JR, et al. **J Pathol** 1997 Apr;181(4):451-4

A randomized controlled prospective outcome study of a psychological and pharmacological intervention protocol for procedural distress in pediatric leukemia. Kazak AE, et al. **J Pediatr Psychol** 1996 Oct;21(5):615-31

Bone marrow stromal cells contribute to synovial cell proliferation in rats with collagen induced arthritis. Nakagawa S, et al. **J Rheumatol** 1996 Dec;23(12):2098-103

Bone marrow cytological findings in 4 dogs and a cat with hemophagocytic syndrome. Walton RM, et al. **J Vet Intern Med** 1996 Jan-Feb;10(1):7-14

Morphological observations of megakaryocytic emperipolesis in the bone marrow of rats treated with lipopolysaccharide. Tanaka M, et al. **J Vet Med Sci** 1996 Jul;58(7):663-7

Bone marrow involvement in Hodgkin's disease: the significance of non-infiltrative changes. Anwar M, et al. **JPMA J Pak Med Assoc** 1997 Apr;47(4):110-3

Bone marrow changes in human malaria: a retrospective study. Gandapur AS, et al. **JPMA J Pak Med Assoc** 1997 May;47(5):137-9

Development of basophils in Mongolian gerbils: formation of basophilic cell clusters in the bone marrow after Nippostrongylus brasiliensis infection. Okada M, et al. **Lab Invest** 1997 Jan;76(1):89-97

Classification and staging of Ph-negative myeloproliferative disorders by histopathology from bone marrow biopsies. Georgii A, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:15-29 (79 ref.)

Accuracy of immunohistochemistry and flow cytometry in estimating the proportion of leukemic cells in S phase in chronic myeloid leukemia patients. Hegde U, et al. **Leuk Lymphoma** 1996 Aug;22(5-6):431-7

Establishment and characterization of a novel human bone marrow stromal cell line, FS-1. Kato H, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):153-61,follow.186, color plate XIII

Marked bone marrow eosinophilia at the time of relapse of acute myeloblastic leukaemia in association with the appearance of translocation t(12;20)(q24;q11). Partridge F, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):181-2

Prognostic significance of bone marrow trephine and peripheral blood smears in 55 patients with mantle cell lymphoma. Pittaluga S, et al. **Leuk Lymphoma** 1996 Mar; 21(1-2):115-25

Magnetic resonance imaging of the bone marrow in lymphomas and leukemias. Tardivon AA, et al. **Leuk Lymphoma** 1997 Mar;25(1-2):55-68

Apoptosis in acute myeloblastic leukemia: follow-up study on trephine biopsies of the bone marrow. Thiele J, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):77-82

Clonality assays and megakaryocyte culture techniques in essential thrombocythemia. Yan L, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:31-40 (61 ref.)

Morphological changes and apoptosis in bone marrow from patients with myelodysplastic syndromes treated with granulocyte-CSF and erythropoietin [see comments] Hellström-Lindberg E, et al. **Leuk Res** 1997 May; 21(5):415-25. Comment in: Leuk Res 1997 May;21(5):427-8.

Perturbation in the ability of bone marrow stroma from patients with acute myeloid leukemia but not chronic myeloid leukemia to support normal early hematopoietic progenitor cells. Sparrow RL, et al. **Leuk Res** 1997 Jan; 21(1):29-36

Suppressed formation of bone marrow adherent layers derived from acute myeloid leukemia patients after in vitro exposure to interleukin-4. Wetzler M, et al. **Leuk Res** 1997 Jun;21(6):519-27

Apoptosis as a parameter of cytokine treatment in myelodysplasia [comment] Yoshida Y. **Leuk Res** 1997 May; 21(5):427-8 (11 ref.). Comment on: Leuk Res 1997 May;21(5):415-25.

Sequential analysis of bone marrow and peripheral blood after stem cell transplant for myeloma shows disparate tumor involvement. Billadeau D, et al. **Leukemia** 1997 Sep; 11(9):1565-70

Incidence and role of apoptosis in myelodysplastic syndrome: morphological and ultrastructural assessment. Bogdanović AD, et al. **Leukemia** 1997 May;11(5):656-9

Cytogenetic analysis of CD34+ subpopulations in AML and MDS characterized by the expression of CD38 and CD117. Haase D, et al. **Leukemia** 1997 May;11(5):674-9

Outcome of patients with low-grade B cell non-Hodgkin lymphoma and initial bone marrow involvement: data of a single institution. Heinz R, et al. **Leukemia** 1997 Apr;11 Suppl 2:S52-4

Faconi anemia and bone marrow clonal chromosome abnormalities. Maarek O, et al. **Leukemia** 1996 Nov; 10(11):1700-4

Cytogenetically aberrant cells are present in the CD34+CD33-38-19- marrow compartment in children with acute lymphoblastic leukemia. Quijano CA, et al. **Leukemia** 1997 Sep;11(9):1508-15

Molecular analysis of hematopoietic colonies derived from chronic myeloid leukemia patients: interphase fluorescence in situ hybridization compared with RT-PCR. Thijsen SF, et al. **Leukemia** 1997 Feb;11(2):301-5

Assessment of the magnetic field distribution in yellow and red bone marrow by the MAGSUS technique. Schick F, et al. **Magn Reson Imaging** 1996;14(5):507-19

Bone marrow imaging in children. Siegel MJ, et al. **Magn Reson Imaging Clin N Am** 1996 Nov;4(4):771-96 (70 ref.)

A case of kala-azar diagnosed by bone marrow aspiration. Hamidah NH, et al. **Malays J Pathol** 1995 Jun;17(1):39-41

Heterogeneous aging of macrophage-lineage cells in the capacity for TNF production and self renewal in C57BL/6 mice. Shimada Y, et al. **Mech Ageing Dev** 1996 Jun 25; 87(3):183-95

Comparison of idarubicin to daunomycin in a randomized multidrug treatment of childhood acute lymphoblastic leukemia at first bone marrow relapse: a report from the Children's Cancer Group. Feig SA, et al. **Med Pediatr Oncol** 1996 Dec;27(6):505-14

Comparison of the cellularity and presence of residual leukemia in bone marrow aspirate and biopsy specimens in pediatric patients with acute lymphoblastic leukemia (ALL) at day 7-14 of chemotherapy. Kidd PG, et al. **Med Pediatr Oncol** 1997 Dec;29(6):541-3

Importance of the day 7 bone marrow biopsy as a prognostic measure of the outcome in children with acute lymphoblastic leukemia. Schultz KR, et al. **Med Pediatr Oncol** 1997 Jul;29(1):16-22

Molecular detection of bone marrow involvement in intravascular lymphomatosis. DiGiuseppe JA, et al. **Mod Pathol** 1997 Jan;10(1):33-7

The role of wide-spectrum cytokeratin staining of the bone marrow cores in patients with ductal carcinoma of the breast. Dunphy CH. **Mod Pathol** 1996 Oct;9(10):955-8

p53 overexpression in myeloid leukemic disorders is associated with increased apoptosis of hematopoietic marrow cells and ineffective hematopoiesis. Orazi A, et al. **Mod Pathol** 1996 Jan;9(1):48-52

Motor neuron disease, lymphoproliferative disease, and bone marrow biopsy. Louis ED, et al. **Muscle Nerve** 1996 Oct; 19(10):1334-7

Enhancement of micronuclei frequency by vindesine in mouse bone marrow. Jagetia GC, et al. **Mutat Res** 1997 Jan 15;388(1):1-5

Images in clinical medicine. Myelodysplasia? Ely EW, et al. **N Engl J Med** 1997 May 8;336(19):1364

Silence of the leukemic clone [editorial; comment] Greaves M. **N Engl J Med** 1997 Jan 30;336(5):367-9. Comment on: N Engl J Med 1997 Jan 30;336(5):317-23.

Megaloblastosis [letter; comment] Raya JM. **N Engl J Med** 1996 Dec 26;335(26):2000; discussion 2000-1 . Comment on: N Engl J Med 1996 Aug 1;335(5):323.

Measurement of residual leukemia during remission in childhood acute lymphoblastic leukemia [see comments] Roberts WM, et al. **N Engl J Med** 1997 Jan 30; 336(5):317-23. Comment in: N Engl J Med 1997 Jan 30;336(5):367-9. Comment in: N Engl J Med 1997 Jul 3;337(1):50; discussion 51. Comment in: N Engl J Med 1997 Jul 3;337(1):50-1.

Diagnostic value of bone marrow biopsy in patients with AA-type renal amyloidosis secondary to ankylosing spondylitis [letter; comment] Sungur C, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2520-1. Comment on: Nephrol Dial Transplant 1996 Jun;11(6):1172-5.

MRI of the spine in cobalamin deficiency: the value of examining both spinal cord and bone marrow. Duprez TP, et al. **Neuroradiology** 1996 Aug;38(6):511-5

Pain during bone marrow aspiration [letter; comment] Abbott FV. **Pain** 1996 May-Jun;65(2-3):284-5. Comment on: Pain 1995 Jul;62(1):1-2. Comment on: Pain 1995 Jul;62(1):3-9.

Falciparum malaria: IX. Bone marrow changes mimicking malignant histiocytosis. A case report [letter] el-Shoura SM. **Parasite** 1994 Sep;1(3):287

Comparative morphometric study of immunohistochemical versus conventional staining for the evaluation of megakaryocytopoiesis in normal and pathological bone marrow biopsies. Marisavljević D, et al. **Pathol Int** 1997 May;47(5):301-7

Histopathology of bone marrow after allogeneic bone marrow transplantation for chronic myeloid leukaemia. Rousselet MC, et al. **Pathol Res Pract** 1996 Aug; 192(8):790-5

Bone marrow biopsy in 50 AIDS patients: a diagnostic approach. Ricci D, et al. **Pathologica** 1995 Dec;87(6):640-5 (40 ref.)

Antigen retrieval by microwave oven heating for immunohistochemical analysis of bone marrow trephine biopsies. Erber WN, et al. **Pathology** 1996 Jan;28(1):45-50

Differential diagnosis based on immunological-phenotyping in suspected malignant bone marrow involvement in childhood. Gussetis ES, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):29-41

Granulopoiesis in newly diagnosed childhood solid tumors. Liang DC, et al. **Pediatr Hematol Oncol** 1997 Sep-Oct; 14(5):423-31

Cell populations in the bone marrow of guinea pig fetuses with intrauterine growth retardation. Ernst LM, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug;17(4):561-8

Analysis of megakaryocyte ploidy in fetal bone marrow biopsies using a new adaptation of the feulgen technique to measure DNA content and estimate megakaryocyte ploidy from biopsy specimens. de Alarcon PA, et al. **Pediatr Res** 1996 Jan;39(1):166-70

Results of MDR-1 vector modification trial indicate that granulocyte/macrophage colony-forming unit cells do not contribute to posttransplant hematopoietic recovery following intensive systemic therapy [published erratum appears in Proc Natl Acad Sci U S A 1997 May 13;94(10):5495] Hanania EG, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15346-51

Blastic transformation of p53-deficient bone marrow cells by p210bcr/abl tyrosine kinase. Skorski T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13137-42

Can running cause the appearance of marrow edema on MR images of the foot and ankle? Lazzarini KM, et al. **Radiology** 1997 Feb;202(2):540-2

Early chronic lymphocytic leukemia: prognostic value of quantitative bone marrow MR imaging findings and correlation with hematologic variables. Lecouvet FE, et al. **Radiology** 1997 Sep;204(3):813-8

Knee and shoulder fractures: association of fracture detection and marrow edema on MR images with mechanism of injury. Palmer WE, et al. **Radiology** 1997 Aug; 204(2):395-401

Stage I multiple myeloma: value of MR imaging of the bone

marrow in the determination of prognosis. Van de Berg BC, et al. **Radiology** 1996 Oct;201(1):243–6

Sequential quantitative MR analysis of bone marrow: differences during treatment of lymphoid versus myeloid leukemia. Vande Berg BC, et al. **Radiology** 1996 Nov; 201(2):519–23

Nonmyelomatous monoclonal gammopathy: correlation of bone marrow MR images with laboratory findings and spontaneous clinical outcome. Vande Berg BC, et al. **Radiology** 1997 Jan;202(1):247–51

Rheumatoid arthritis as a bone marrow disorder. Berthelot JM, et al. **Semin Arthritis Rheum** 1996 Oct;26(2):505–14 (117 ref.)

Biologic and clinical implications of marrow culture studies in the myelodysplastic syndromes. Greenberg PL. **Semin Hematol** 1996 Apr;33(2):163–75 (165 ref.)

MRI gadolinium enhancement of bone marrow: age-related changes in normals and in diffuse neoplastic infiltration. Baur A, et al. **Skeletal Radiol** 1997 Jul;26(7):414–8

Intramedullary chondroid tumors of bone: correlation of abnormal peritumoral marrow and soft-tissue MRI signal with tumor type. Janzen L, et al. **Skeletal Radiol** 1997 Feb; 26(2):100–6

Fat replacement of Hodgkin disease of bone marrow after chemotherapy: report of three cases. Lien HH, et al. **Skeletal Radiol** 1996 Oct;25(7):671–4

MRI of degenerative bone marrow lesions in experimental osteoarthritis of canine knee joints. Nolte-Ernsting CC, et al. **Skeletal Radiol** 1996 Jul;25(5):413–20

The cytotoxic effect of endotoxin on bone marrow cells in zinc deficient rats. Nakajima K, et al. **Tohoku J Exp Med** 1996 Jul;179(3):183–91

Blood, bone marrow and splenic lymphocyte subset profiles in Indian visceral leishmaniasis. Rohtagi A, et al. **Trans R Soc Trop Med Hyg** 1996 Jul–Aug;90(4):431–4

Telomerase activity and phenotypic characterization in harvested bone marrow from a child with a germline cell cancer. Russo DA, et al. **Transplant Proc** 1997 Jun; 29(4):2002

Myelopoiesis and myeloproliferative disorders. Raskin RE. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1023–42 (56 ref.)

African swine fever virus infection of bone marrow: lesions and pathogenesis. Gómez-Villamandos JC, et al. **Vet Pathol** 1997 Mar;34(2):97–107

Idiopathic myelofibrosis (agnogenic myeloid metaplasia) in a marmoset (Callithrix jacchus): hematologic and histopathologic changes. Khan KN, et al. **Vet Pathol** 1997 Jul;34(4):341–5

Frequency of pseudo-Gaucher cells in diagnostic bone marrow biopsies from patients with Ph-positive chronic myeloid leukaemia. Büsche G, et al. **Virchows Arch** 1997 Feb;430(2):139–48

Detection of karyotype changes in interphase cells: oligonucleotide-primed in situ labelling versus fluorescence in situ hybridization. Werner M, et al. **Virchows Arch** 1997 May;430(5):381–7

[A human bone marrow cell line (B3HM) inducing leukemia in mouse] Jiang X, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):105–8 (Eng. Abstr.) **(Chi)**

[Blastic lymphoid cells in the bone marrow of an infant] Dargent JL, et al. **Ann Pathol** 1997 Mar;17(1):57–8 **(Fre)**

[Lysinuric dibasic protein intolerance: characteristic aspects of bone marrow involvement] Doireau V, et al. **Arch Pediatr** 1996 Sep;3(9):877–80 (Eng. Abstr.) **(Fre)**

[Bone marrow in patients with pseudarthrosis. A study of progenitor cells by in vitro cloning] Hernigou P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):33–40 (Eng. Abstr.) **(Fre)**

[Flow cytometric characterization of maturation processes and primitive stem cell population in pre-B-cell ALL in childhood] Baersch G, et al. **Klin Padiatr** 1996 Jul–Aug; 208(4):160–7 (Eng. Abstr.) **(Ger)**

[Kinetics of myelopoietic regeneration and mobilization of CD34-positive cells within the scope of the NB90 Neuroblastoma Therapy Study] Sauter S, et al. **Klin Padiatr** 1997 Jul–Aug;209(4):191–5 (Eng. Abstr.) **(Ger)**

[Comparative study of the dissemination of tumor cells in bone marrow and peripheral blood in stomach and colorectal carcinoma with RT-PCR] Soeth E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:793–6 (Eng. Abstr.) **(Ger)**

[Unusual crystalline inclusions in plasmacytoma cells of the testis in primary medullary plasmacytoma] Hailemariam S, et al. **Pathologe** 1996 Nov;17(6):455–8 (Eng. Abstr.) **(Ger)**

[Association of bone marrow mastocytosis with extremely immature extramedullary mast cell sarcoma] Sotlar K, et al. **Pathologe** 1997 May;18(3):252–6 (Eng. Abstr.) **(Ger)**

[Bone marrow changes in chronic relapsing polychondritis: potential appearance of myelodysplastic syndromes] Diebold J, et al. **Verh Dtsch Ges Pathol** 1996;80:331 **(Ger)**

[Bone marrow morphology and various hemolytic markers in growing rats with alimentary lead deficiency] Eberle J, et al. **Z Ernahrungswiss** 1996 Dec;35(4):332–40 (Eng. Abstr.) **(Ger)**

[Immunophenotyping of childhood leukemias--results of the first 100 bone marrow tests] Kluijber V, et al. **Orv Hetil** 1996 May 26;137(21):1139–42 (Eng. Abstr.) **(Hun)**

[Bone marrow changes in HIV-positive patients (clinical, cytological, histological, and ultrastructural study of 57 cases)] Oddi G, et al. **Pathologica** 1997 Feb;89(1):36–43 (Eng. Abstr.) **(Ita)**

[Detection of lesions in bone marrow for the diagnosis of miliary tuberculosis: reliability of bone marrow aspiration and biopsy in view of distribution pattern of lesions in autopsy cases] Nakajima M, et al. **Kansenshogaku Zasshi** 1996 Sep;70(9):963–9 (Eng. Abstr.) **(Jpn)**

[MR images of bone marrow in aplastic anemia and correlation between MR findings and age] Amano Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):546–9 (Eng. Abstr.) **(Jpn)**

[MR imaging of hematopoietic regions in bone marrow of aplastic anemia : diagnostic usefulness of opposed phase T1-weighted images] Amano Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan;56(1):9–13 (Eng. Abstr.) **(Jpn)**

[Proton MR spectroscopy of hyperplastic hematopoietic marrow in aplastic anemia] Amano Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):253–7 (Eng. Abstr.) **(Jpn)**

[MR relaxation times in diffuse bone marrow disorders: evaluation of their clinical usefulness in differentiation between leukemia and anemia] Tanaka O, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):539–45 (Eng. Abstr.) **(Jpn)**

[MR imaging of the femoral marrow in adult acute leukemia: correlation of MRI patterns with FAB subtype and prognosis] Tanaka O, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):967–73 (Eng. Abstr.) **(Jpn)**

[Chronic eosinophilic pneumonia involving eosinophil cationic protein and bone marrow cells] Nakamura Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1115–20 (Eng. Abstr.) **(Jpn)**

[Case of acute myelocytic leukemia (AML) with an increase in bone marrow basophils and morphological anomalies of 3 blood cell lineages] Hatsumi N, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1768–70 **(Jpn)**

[Minimally differentiated hypoplastic leukemia in two elderly patients] Tanabe J, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):70–4 (Eng. Abstr.) **(Jpn)**

[Bone marrow MRI in hematological disorders] Heshiki A. **Rinsho Ketsueki** 1997 May;38(5):345–8 (11 ref.) **(Jpn)**

[Early establishment of bone marrow hypoplasia by antileukemic chemotherapy with concurrent rhG-CSF in a case of acute myelogenous leukemia complicated with intestinal perforation] Ono Y, et al. **Rinsho Ketsueki** 1997 Jan;38(1):41–6 (Eng. Abstr.) **(Jpn)**

[Morphofunctional characteristics of stromal structures of bone marrow in aplastic anemia patients] Abdulkadyrov KM, et al. **Arkh Patol** 1996 Jan-Feb;58(1):25–8 (Eng. Abstr.) **(Rus)**

[The pathomorphological characteristics of the early necrobiosis of the myelokaryocytes in an acute radiation lesion] Kvacheva IuE, et al. **Radiats Biol Radioecol** 1997 Jan-Feb;37(1):76–81 (Eng. Abstr.) **(Rus)**

[Histopathology of bone marrow biopsy in patients with human immunodeficiency virus infection] Paradela A, et al. **Rev Clin Esp** 1996 Jan;196(1):9–15 (Eng. Abstr.) **(Spa)**

[Bone marrow in human immunodeficiency virus (HIV) infection: the bone marrow in the etiopathogenesis of the hematological changes associated with HIV infection] Moreno García M. **Sangre (Barc)** 1996 Jun;41(3):221–30 (167 ref.) **(Spa)**

[Bone marrow in human immunodeficiency virus (HIV) infection: morphological changes in the bone marrow in HIV infection (see comments)] Moreno García M. **Sangre (Barc)** 1996 Jun;41(3):231–9 (120 ref.). Comment in: Sangre (Barc) 1996 Dec;41(6):481–3. **(Spa)**

[Quantitative evaluation of juxtatrabecular fibrosis in myelodysplastic syndromes] Reissenweber N, et al. **Sangre (Barc)** 1995 Dec;40(6):479–83 (Eng. Abstr.) **(Spa)**

[Morphological changes in the bone marrow of patients with HIV infection (letter; comment)] Rodríguez JN. **Sangre (Barc)** 1996 Dec;41(6):481–3. Comment on: Sangre (Barc) 1996 Jun;41(3):231–9. **(Spa)**

[Polycythemia vera as a multiphasic clonal panmyelopathy: diagnostic profile, chronic pathological progression and effect of therapy on the survival of 74 cases] Sánchez Fayos J, et al. **Sangre (Barc)** 1996 Dec;41(6):447–57 (55 ref.) (Eng. Abstr.) **(Spa)**

[Detection of the Mbcr/abl translocation using FISH in bone marrow samples from patients diagnosed with CML and ALL (letter)] Vargas MT, et al. **Sangre (Barc)** 1996 Oct; 41(5):399–400 **(Spa)**

PHYSIOLOGY

Integrin-mediated regulation of hematopoiesis: do BCR/ABL-induced defects in integrin function underlie the abnormal circulation and proliferation of CML progenitors? Verfaillie CM, et al. **Acta Haematol** 1997; 97(1-2):40–52 (160 ref.)

Donor-specific bone marrow cells suppress lymphocyte reactivity to donor antigens and differentially modulate TH1 and TH2 cytokine gene expression in the responder cell population. Lagoo-Deenadayalan S, et al. **Adv Nephrol Necker Hosp** 1996;25:107–27

A possible role for L-selectin in the release of polymorphonuclear leukocytes from bone marrow. van Eeden SF, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1717–24

In vivo radioprotective effect of AcSDKP on canine myelopoiesis. Deeg HJ, et al. **Ann Hematol** 1997 Mar; 74(3):117–22

Bone marrow induced osteogenesis in hydroxyapatite and calcium carbonate implants. Vuola J, et al. **Biomaterials** 1996 Sep;17(18):1761–6

Characterization of signal transduction pathways in human bone marrow endothelial cells. Liu ZY, et al. **Blood** 1997 Sep 15;90(6):2253–9

Expression of voltage-operated Ca2+ channels in rat bone marrow stromal cells in vitro. Preston MR, et al. **Bone** 1996 Aug;19(2):101–6

Cytokines active on granulomonopoiesis: release and consumption by human marrow myeloid stromal cells. Sensebe L, et al. **Br J Haematol** 1997 Aug;98(2):274–82

Bone marrow stromal cells are load responsive in vitro. Thomas GP, et al. **Calcif Tissue Int** 1996 Feb;58(2):101–8

Study of the post-natal effects of chemopreventive agents on ethylnitrosourea-induced transplacental carcinogenesis in rats. II. Influence of low-molecular-weight polypeptide factors from the thymus, pineal gland, bone marrow, anterior hypothalamus, brain cortex and brain white substance. Alexandrov VA, et al. **Carcinogenesis** 1996 Sep; 17(9):1931–4

Suppression of myelopoiesis and myeloid leukemia cell line proliferation by a novel bone marrow-derived factor, reptimed. DeKoter RP, et al. **Cell Immunol** 1997 Feb 1; 175(2):120–7

Angiotensin I-converting enzyme, blood groups, and a local marrow-specific renin-angiotensin system [letter; comment] Haznedaroğlu IC. **Exp Hematol** 1997 Feb; 25(2):93. Comment on: Exp Hematol 1996 Jun;24(7):790–4.

A novel gene therapy strategy for elimination of prostate carcinoma cells from human bone marrow. Kim M, et al. **Hum Gene Ther** 1997 Jan 20;8(2):157–70

No CD117 expression on B progenitors in the regenerating bone marrow [letter] Muroi K, et al. **Int J Hematol** 1997 Aug;66(2):245–7

Differential induction of cell-mediated mineralization in rat marrow stroma by sera from women of low and high risk for vertebral fracture. Klein BY, et al. **J Cell Biochem** 1996 Oct;63(1):115–22

Virus-induced transient bone marrow aplasia: major role of interferon-alpha/beta during acute infection with the noncytopathic lymphocytic choriomeningitis virus. Binder D, et al. **J Exp Med** 1997 Feb 3;185(3):517–30

Impaired bone marrow microenvironment and immune function in T cell protein tyrosine phosphatase-deficient mice. You-Ten KE, et al. **J Exp Med** 1997 Aug 29; 186(5):683–93

A highly temperature-sensitive proton current in mouse bone marrow-derived mast cells. Kuno M, et al. **J Gen Physiol** 1997 Jun;109(6):731–40

Osteogenic potential of allogeneic rat marrow cells in porous hydroxyapatite ceramics: a histological study. Sempuku T, et al. **J Orthop Res** 1996 Nov;14(6):907–13

The role of stromal cell heparan sulphate in regulating haemopoiesis. Coombe DR. **Leuk Lymphoma** 1996 May; 21(5-6):399–406 (82 ref.)

Comparison of haematological recovery kinetics after myeloablative therapy between sibling allogeneic bone marrow and peripheral blood progenitor cell transplantation in the same adult acute lymphoblastic leukaemia patient [letter] Stockschläder M, et al. **Leuk Res** 1996 Nov-Dec;20(11-12):993–6

Comparison of the immunoglobulin gene transcripts between immature B lineage acute lymphoblastic leukemia and the normal phenotypic counterparts in the bone marrow. Mori H, et al. **Leukemia** 1997 Aug;11(8):1274–80

Establishment and characterization of a human stroma-dependent myeloma cell line (MM5.1) and its stroma-independent variant (MM5.2). Van Riet I, et al. **Leukemia** 1997 Feb;11(2):284–93

A local renin-angiotensin system in the bone marrow. Haznedaroğlu IC, et al. **Med Hypotheses** 1996 Jun; 46(6):507–10

Haematopoietic effects of ACE inhibitors and local bone marrow renin-angiotensin system: An hypothesis [letter; comment] Haznedaroğlu IC. **Nephrol Dial Transplant** 1996 Nov;11(11):2373. Comment on: Nephrol Dial Transplant 1996 Apr;11(4):749–751.

Avian hematopoiesis in response to avian cytokines. Nicolas-Bolnet C, et al. **Poult Sci** 1995 Dec;74(12):1970–6

Onlay bone graft behaviour after marrow exposure of the recipient rat skull bone. Alberius P, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Dec; 30(4):257–66

Differential effect of erythropoietin and GM-CSF on megakaryocytopoiesis from primitive bone marrow cells in serum-free conditions. Cardier JE, et al. **Stem Cells** 1997; 15(4):286–90

Factors controlling haemopoiesis in ovine long-term bone marrow cultures. Marsicano G, et al. **Vet Immunol Immunopathol** 1997 Mar;55(4):291–301

[Drifting cascade-like slowly developing adaptation mechanism during action of extreme factors on the body] Shakhov VP. **Biull Eksp Biol Med** 1996 May;121(5):571–4

BONE MARROW

(Rus)

PHYSIOPATHOLOGY

Pure red cell aplasia associated with hepatitis C infection. al-Awami Y, et al. **Am J Med Sci** 1997 Aug;314(2):113-7 (48 ref.)

Bone marrow stromal cells contribute to synovial cell proliferation in rats with collagen induced arthritis. Nakagawa S, et al. **J Rheumatol** 1996 Dec;23(12):2098-103

Bone marrow failure by cytomegalovirus is associated with an in vivo deficiency in the expression of essential stromal hemopoietin genes. Mayer A, et al. **J Virol** 1997 Jun; 71(6):4589-98

Pediatric hyperfibrotic myelodysplasia: an unusual clinicopathologic entity. Sahu S, et al. **Pediatr Hematol Oncol** 1997 Mar-Apr;14(2):133-9

RADIATION EFFECTS

Lack of effect of hepatocyte growth factor on bone marrow suppression induced by total body irradiation in the rat. Yamazaki H, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):479-80

Population size and radiosensitivity of murine hematopoietic endogenous long-term repopulating cells. McCarthy KF. **Blood** 1997 Feb 1;89(3):834-41

Glucose metabolism in bone marrow cells and granulocytes of adult mice after X-ray (5 Gy) irradiation: relationship to cell functionality. Gaitán S, et al. **Br J Haematol** 1997 Mar;96(3):559-65

Modification of bone marrow radiosensensitivity by medicinal plant extracts. Ganasoundari A, et al. **Br J Radiol** 1997 Jun;70(834):599-602

Bone marrow suppression after strontium-89 therapy and local radiation therapy in patients with diffuse marrow involvement. Powsner RA, et al. **Clin Nucl Med** 1997 Mar; 22(3):147-50

Radioprotection of bone marrow stem cell subsets by interleukin-1 and kit-ligand: implications for CFU-S as the responsible target cell population. van Os R, et al. **Exp Hematol** 1997 Mar;25(3):205-10

Neutron RBEs for cytopenia and repopulation of stroma and hematopoietic stem cells: mathematical models of marrow cell kinetics. Jones TD, et al. **Health Phys** 1997 Apr; 72(4):530-43

Reduction in the duration of myelotoxicity associated with radioimmunotherapy with infusions of the hemoregulatory peptide, HP5b in mice. Alisauskas RM, et al. **Int J Cancer** 1997 Jan 27;70(3):323-9

In vivo diode dosimetry for total marrow irradiation. Luse RW, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1; 36(1):189-95

Apoptosis in bone marrow cells of mice with different p53 genotypes after gamma-rays irradiation in vitro. Cui YF, et al. **J Environ Pathol Toxicol Oncol** 1995;14(3-4):159-63

Prediction of myelotoxicity using radiation doses to marrow from body, blood and marrow sources. Lim SM, et al. **J Nucl Med** 1997 Sep;38(9):1374-8

UVB-irradiation of human bone marrow: potential for donor specific tolerance. Noizat-Pirenne F, et al. **J Surg Res** 1996 Feb 15;61(1):267-74

Differential effects of recombinant human granulocyte colony-stimulating factor (rhG-CSF) on the radiation sensitivity of normal versus leukemic bone marrow progenitor cell populations. Waddick KG, et al. **Leuk Lymphoma** 1997 Mar;25(1-2):77-90

Radiotherapy effects on vertebral bone marrow: easily recognizable changes in T2 relaxation times. Argiris A, et al. **Magn Reson Imaging** 1996;14(6):633-8

T2 relaxation times of irradiated vertebral bone marrow in patients with seminoma. Argiris A, et al. **Magn Reson Imaging** 1997;15(3):335-40

Repair of gamma-irradiation-induced DNA single-strand breaks in human bone marrow cells: analysis of unfractionated and CD34+ cells using single-cell gel electrophoresis. Lankinen MH, et al. **Mutat Res** 1997 Jul 3;377(2):177-85

Repair of gamma-irradiation-induced DNA single-strand breaks in human bone marrow cells: effects of a second irradiation. Lankinen MH, et al. **Mutat Res** 1997 Jan 3; 373(1):31-7

Radioprotection of beta-carotene evaluated on mouse somatic and germ cells. Salvadori DM, et al. **Mutat Res** 1996 Sep 23;356(2):163-70

Anticlastogenic effect of S-2-(3-aminopropylamino) ethylphosphorothioic acid against X-rays in mice. Mazur L. **Physiol Res** 1996;45(1):59-63

Glycophorin A as a biological dosimeter for radiation dose to the bone marrow from iodine-131. Jensen RH, et al. **Radiat Res** 1997 Jun;147(6):747-52

Frequency of micronuclei in the peripheral blood and bone marrow of cancer-prone mice chronically exposed to 2450 MHz radiofrequency radiation. Vijayalaxmi, et al. **Radiat Res** 1997 Apr;147(4):495-500

Rhenium-186 hydroxyethylidene diphosphonate for treatment of painful osseous metastases from mammary carcinoma. Virotta G, et al. **Tumori** 1997 Mar-Apr; 83(2):563-5

[Nonmonotony of dose-effect dependence during irradiation of cells in vitro with pulsed laser radiation with a wavelength of 820 nm] Karu TI, et al. **Dokl Akad Nauk** 1997 May;354(1):117-9 **(Rus)**

[Induction of cytogenetic damage to rat bone marrow cells by combined exposure to chronic and acute gamma radiation] Klokov DIu, et al. **Genetika** 1997 Jun;33(6):855-7 (Eng. Abstr.) **(Rus)**

[Possible mechanisms of the emergence of chromosome aberrations. VIII. Cytogenetic analysis of the dynamics of repair and occurrence of potential chromosome damage in bone marrow cells of gamma-irradiated mice] Lebedeva LI, et al. **Genetika** 1996 Jun;32(6):804-9 (Eng. Abstr.) **(Rus)**

[The diverse effects of the combined action of cadmium chloride and ionizing radiation on the content of metallothioneins in mouse bone marrow and liver] Koterov AN, et al. **Radiats Biol Radioecol** 1997 Mar-Apr; 37(2):196-201 (Eng. Abstr.) **(Rus)**

[The pathomorphological characteristics of the early necrobiosis of the myelokaryocytes in an acute radiation lesion] Kvacheva IuE, et al. **Radiats Biol Radioecol** 1997 Jan-Feb;37(1):76-81 (Eng. Abstr.) **(Rus)**

[The heterogeneity of the cytogenetic variability in the bone marrow cells of laboratory and wild rodents in the exclusion zone of the Chernobyl Atomic Electric Power Station] Glazko TT, et al. **Tsitol Genet** 1996 Jul-Aug; 30(4):25-34 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Dynamic scintigraphy of bone and bone marrow in multiple myeloma patients with bone-marrow transplants. Agren B, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):533-8

Accumulation of 99mTc-MIBI in bone marrow. Jonsson C, et al. **Ann Nucl Med** 1996 Aug;10(3):281-5

99mTc-antigranulocyte bone marrow scintigraphy of breast and prostate skeletal metastases. Limouris GS, et al. **Anticancer Res** 1997 May-Jun;17(3B):1615-8

Scintigraphic evaluation of Tc-99m-low-density lipoprotein (LDL) distribution in patients with Gaucher disease. Lorberboym M, et al. **Clin Genet** 1997 Jul;52(1):7-11

Bone marrow imaging of bone marrow transplanted multiple myeloma patients. Agren B, et al. **Clin Nucl Med** 1997 Feb; 22(2):80-92

Increased bone marrow uptake of Ga-67 in patients with fever of unknown origin. Flores LG 2nd, et al. **Clin Nucl Med** 1996 Oct;21(10):786-91

I-131 localization in acute megakaryocytic leukemia. Leung A, et al. **Clin Nucl Med** 1996 Dec;21(12):950-2

Richter's syndrome. Findings on Ga-67 and bone marrow imaging. Lorberboym M, et al. **Clin Nucl Med** 1996 Apr; 21(4):319-20

Significance of radioisotope bone marrow uptake on 99m technetium sulphocolloid scan in portal hypertension [see comments] Sheth SG, et al. **J Assoc Physicians India** 1996 May;44(5):310-2. Comment in: J Assoc Physicians India 1996 May;44(5):303-4.

Comparative diagnostic accuracy of magnetic resonance imaging and immunoscintigraphy for detection of bone marrow involvement in patients with malignant lymphoma. Altehoefer C, et al. **J Clin Oncol** 1997 May;15(5):1754-60

Scintigraphic diagnosis of intrathoracic extramedullary hematopoiesis in alcohol-related macrocytosis. De Geeter F, et al. **J Nucl Med** 1996 Mar;37(3):473-5

Antigranulocyte antibody uptake in bone marrow is age-dependent [letter; comment] Ivančević V, et al. **J Nucl Med** 1997 Jul;38(7):1172. Comment on: J Nucl Med 1996 Jun;37(6):978-82.

Leukocyte-marrow scintigraphy in hyperostosis frontalis interna. Torres MA, et al. **J Nucl Med** 1997 Aug; 38(8):1283-5

Bone marrow scintigraphy as a useful method for estimating the physiological status of bone marrow and spleen in polycythaemia vera. Rain JD, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:105-10

Clinical evaluation of the bone marrow imaging agent 99Tcm-phytate in the detection of bone metastases. Chang CP, et al. **Nucl Med Commun** 1996 Dec;17(12):1030-4

99Tcm-LL1: a potential new bone marrow imaging agent. Juweid M, et al. **Nucl Med Commun** 1997 Feb;18(2):142-8

[Immunoscintigraphy examination of bone marrow in patients with hematologic diseases] Maturová M, et al. **Vnitr Lek** 1997 Feb;43(2):95-7 (Eng. Abstr.) **(Cze)**

[Diagnosis of infective spondylitis. Value of bone marrow scintigraphy with 99mTC monoclonal granulocyte antibodies in combination with 99mTc-DPD bone scintigraphy] Görres G, et al. **Rontgenpraxis** 1996 Sep; 49(9):235-8 **(Ger)**

SURGERY

Bone particles disturb new bone formation on the interface of the titanium implant after reaming of the marrow cavity. Ishizaka M, et al. **Bone** 1996 Dec;19(6):589-94

Effect of age on the expression of insulin-like growth factor-I, interleukin-6, and transforming growth factor-beta mRNAs in rat femurs following marrow ablation [published erratum appears in Bone 1996 Aug;19(2):206] Tanaka H, et al. **Bone** 1996 May;18(5):473-8

Bilateral tibial marrow ablation in rats induces a rapid hypercalcemia arising from extratibial bone resorption inhibitable by methylprednisolone or deflazacort. Magnuson SK, et al. **J Bone Miner Res** 1997 Feb; 12(2):200-9

Autologous bone marrow harvesting in outpatients [see comments] Thorne AC, et al. **J Clin Anesth** 1996 Nov; 8(7):551-6. Comment in: J Clin Anesth 1997 Jun;9(4):345.

TRANSPLANTATION see BONE MARROW TRANSPLANTATION

ULTRASTRUCTURE

In vivo genotoxicity of selected herbicides in the mouse bone-marrow micronucleus test. Gebel T, et al. **Arch Toxicol** 1997;71(3):193-7

Usefulness of detection of minimal residual disease by 'hypermetaphase' fluorescent in situ hybridization after allogeneic BMT for chronic myelogenous leukemia. Seong D, et al. **Bone Marrow Transplant** 1997 Mar;19(6):565-70

Detection of mouse IL-8 receptor homologue expression on peripheral blood leukocytes and mature myeloid lineage cells in bone marrow. Wang J, et al. **J Leukoc Biol** 1996 Sep;60(3):372-81

Distribution of lectin binding sites in human bone marrow. Identification by use of an ultrastructural postembedding technique. Kuemmel TA, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):537-51

An improved postembedding technique for ultrastructural studies of lectin binding sites in bone marrow: a critical evaluation. Kuemmel TA, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):197-208

A direct comparison of mouse and rat bone marrow and blood as target tissues in the micronucleus assay. Holden HE, et al. **Mutat Res** 1997 Jun 13;391(1-2):87-9

Pseudo-Gaucher's cells in association with common acute lymphoblastic leukemia. Knox-Macaulay H, et al. **South Med J** 1997 Jan;90(1):69-71

VIROLOGY

Presence of Epstein-Barr virus genome in the bone marrow of patients with hematopoietic malignancies. Watanabe H, et al. **Acta Haematol** 1997;98(1):32-6

Extensive latent retroviral infection in bone marrow of patients with HTLV-I-associated neurologic disease [letter] Levin MC, et al. **Blood** 1997 Jan 1;89(1):346-8

Infection and replication of human cytomegalovirus in bone marrow stromal cells: effects on the production of IL-6, MIP-1alpha, and TGF-beta1. Taichman RS, et al. **Bone Marrow Transplant** 1997 Mar;19(5):471-80

Detection of parvovirus B19 in skin biopsy, serum, and bone marrow of a patient with fever, rash, and polyarthritis followed by pneumonia, pericardial effusion, and hepatitis. Nikkari S, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec; 15(12):954-7

LacZ and interleukin-3 expression in vivo after retroviral transduction of marrow-derived human osteogenic mesenchymal progenitors. Allay JA, et al. **Hum Gene Ther** 1997 Aug 10;8(12):1417-27

Intramarrow cytokine gene transfer by adenoviral vectors in dogs. Foley R, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):545-53

Human parvovirus B19 in bone marrows from adults with acquired immunodeficiency syndrome: a comparative study using in situ hybridization and immunohistochemistry. Liu W, et al. **Hum Pathol** 1997 Jul;28(7):760-6

Transcription of latent and replicative Epstein-Barr-virus genes in bone-marrow and peripheral-blood mononuclear cells of healthy donors. Gonnella R, et al. **Int J Cancer** 1997 Mar 4;70(5):524-9

Bovine viral diarrhoea virus infection in bone marrow of experimentally infected calves. Spagnuolo M, et al. **J Comp Pathol** 1997 Jan;116(1):97-100

Enhanced HIV-1 activity in bone marrow can lead to myelopoietic suppression partially contributed by gag p24. Rameshwar P, et al. **J Immunol** 1996 Nov 1;157(9):4244-50

Infection of blood and bone marrow cells with the human cytomegalovirus in vivo. Meyer-König U, et al. **Leuk Lymphoma** 1997 May;25(5-6):445-54 (58 ref.)

Immunopathogenesis of HTLV-I associated neurologic disease: massive latent HTLV-I infection in bone marrow of HAM/TSP patients. Jacobson S, et al. **Leukemia** 1997 Apr;11 Suppl 3:73-5

Quantitation of hepatitis C virus RNA production in two human bone marrow-derived B-cell lines infected in vitro. Iacovacci S, et al. **Res Virol** 1997 Mar-Apr;148(2):147-51

Human immunodeficiency virus infection of human bone marrow stromal myoid cells. Ercoli L, et al. **Scand J Infect Dis** 1996;28(4):335-40

Kaposi's sarcoma-associated herpesvirus infection of bone marrow dendritic cells from multiple myeloma patients [see comments] Rettig MB, et al. **Science** 1997 Jun 20; 276(5320):1851-4. Comment in: Science 1997 Jun 20;276(5320):1788-9.

Parvoviruses and bone marrow failure. Brown KE, et al. **Stem Cells** 1996 Mar;14(2):151-63 (95 ref.)

African swine fever virus infection of bone marrow: lesions and pathogenesis. Gómez-Villamandos JC, et al. **Vet Pathol** 1997 Mar;34(2):97-107

Murine leukemia virus infects early bone marrow progenitors in immunocompetent mice. Tumas-Brundage KM, et al. **Virology** 1996 Oct 15;224(2):573-5

BONE MARROW DISEASES

[Age-dependent MR imaging of the tibia in children up to 2 years old. The findings in children without bone marrow-relevant diseases or therapies] Kujat C, et al.

Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Nov;165(5):470–4 (Eng. Abstr.) **(Ger)**

CHEMICALLY INDUCED

Intratibial injection of an anti-doxorubicin monoclonal antibody prevents drug-induced myelotoxicity in mice. Morelli D, et al. **Br J Cancer** 1997;75(5):656–9

Reversible bone marrow depression by high-dose piperacillin/tazobactam. Ruiz-Irastorza G, et al. **Br J Haematol** 1996 Dec;95(4):611–2

Transient myeloid dysplasia due to valproic acid. Hongeng S, et al. **Clin Pediatr (Phila)** 1997 Jun;36(6):361–4

Drug-related blood dyscrasias. Introduction. Young NS. **Eur J Haematol Suppl** 1996;60:6–8

Benefit of simultaneous rhG-CSF and methylprednisolone 'pulse' therapy for methotrexate-induced bone marrow failure in rheumatoid arthritis. Kondo H, et al. **Int J Hematol** 1997 Feb;65(2):159–63

Acute bone-marrow oedema in cyclosporin-treated renal transplant recipients. Jagose JT, et al. **QJM** 1997 May; 90(5):359–66

[Bone marrow aplasia related to ticlopidine] de Jaureguiberry JP, et al. **Rev Med Interne** 1996;17(12):1032–6 (30 ref.) (Eng. Abstr.) **(Fre)**

[Ticlopidine (Ticlid) and severe bone marrow aplasia (letter)] Michon-Pasturel U, et al. **Rev Med Interne** 1996; 17(12):1041 **(Fre)**

[Bone marrow aplasia and ticlopidine (letter)] Gaspar Alonso-Vega G, et al. **Med Clin (Barc)** 1997 Apr 19; 108(15):596–7 (10 ref.) **(Spa)**

COMPLICATIONS

What are the essential symptoms in the Hoyeraal-Hreidarsson syndrome? [letter; comment] Ohga S, et al. **Eur J Pediatr** 1997 Jan;156(1):80–1. Comment on: Eur J Pediatr 1995 Dec;154(12):998.

Bone marrow necrosis in antiphospholipid syndrome. Paydas S, et al. **J Clin Pathol** 1997 Mar;50(3):261–2

Fatal bone marrow embolism in a patient with sickle cell beta + thalassaemia. Zaidi Y, et al. **J Clin Pathol** 1996 Sep;49(9):774–5

[Acute interstitial nephritis with bone marrow granulomas and uveitis] Akioka Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):270–1 (8 ref.) **(Jpn)**

CONGENITAL

Depressed natural killer cell activity due to decreased natural killer cell population in a vitamin E-deficient patient with Shwachman syndrome: reversible natural killer cell abnormality by alpha-tocopherol supplementation [see comments] Adachi N, et al. **Eur J Pediatr** 1997 Jun; 156(6):444–8. Comment in: Eur J Pediatr 1997 Jun;156(6):449–50.

Severe Shwachman-Diamond syndrome and invasive parvovirus B19 infection. Miniero R, et al. **Pediatr Hematol Oncol** 1996 Nov-Dec;13(6):555–61

DIAGNOSIS

Magnetic resonance imaging of musculoskeletal lesions: comparison of three fat-saturation pulse sequences. Pui MH, et al. **Australas Radiol** 1997 May;41(2):99–102

Long-term effects of localized spinal radiation therapy on vertebral fractures and focal lesions appearance in patients with multiple myeloma. Lecouvet F, et al. **Br J Haematol** 1997 Mar;96(4):743–5

MRI in the evaluation of late bone marrow changes following bone marrow transplantation. Tanner SF, et al. **Br J Radiol** 1996 Dec;69(828):1145–51

Magnetic resonance imaging (MRI) of the knee: a pattern approach for evaluating bone marrow edema. Yu JS, et al. **Crit Rev Diagn Imaging** 1996 Sep;37(4):261–303 (51 ref.)

Non reactive tuberculosis presenting as massive splenomegaly. Kaushal SS, et al. **J Assoc Physicians India** 1995 Feb;43(2):142

Use of methyl methacrylate resin for embedding bone marrow trephine biopsy specimens. Blythe D, et al. **J Clin Pathol** 1997 Jan;50(1):45–9

Useful internal standards for distinguishing infiltrative marrow pathology from hematopoietic marrow at MRI. Carroll KW, et al. **J Magn Reson Imaging** 1997 Mar-Apr; 7(2):394–8

Bone marrow edema caused by altered pedal biomechanics. Yochum TR, et al. **J Manipulative Physiol Ther** 1997 Jan; 20(1):56–9

Clinical factors predictive of bone marrow involvement in Hodgkin's disease. Spector N, et al. **Leuk Lymphoma** 1997 Jun;26(1–2):171–6

Bone marrow imaging in children. Siegel MJ, et al. **Magn Reson Imaging Clin N Am** 1996 Nov;4(4):771–96 (70 ref.)

MRI of the spine in cobalamin deficiency: the value of examining both spinal cord and bone marrow. Duprez TP, et al. **Neuroradiology** 1996 Aug;38(6):511–5

Bone marrow biopsy in 50 AIDS patients: a diagnostic approach. Ricci D, et al. **Pathologica** 1995 Dec;87(6):640–5 (40 ref.)

Antigen retrieval by microwave oven heating for immunohistochemical analysis of bone marrow trephine biopsies. Erber WN, et al. **Pathology** 1996 Jan;28(1):45–50

MR imaging of bone marrow disorders. Deely DM, et al. **Radiol Clin North Am** 1997 Jan;35(1):193–212 (42 ref.)

[MR relaxation times in diffuse bone marrow disorders: evaluation of their clinical usefulness in differentiation between leukemia and anemia] Tanaka O, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):539–45 (Eng. Abstr.) **(Jpn)**

[Detection of Leishmania in bone marrow using an automatic hemoculture system (letter)] Fernández I, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):394 **(Spa)**

DRUG THERAPY

Antifungal effects of yeast-derived rhu-GM-CSF in patients receiving high-dose chemotherapy given with or without autologous stem cell transplantation: a retrospective analysis. Peters BG, et al. **Bone Marrow Transplant** 1996 Jul;18(1):93–102 (60 ref.)

Clearance of marrow infiltration after 1 week of therapy for childhood lymphoblastic leukaemia: clinical importance and the effect of daunorubicin. The Medical Research Council's Working Party on Childhood Leukaemia. Lilleyman JS, et al. **Br J Haematol** 1997 Jun;97(3):603–6

Recombinant human erythropoietin in combination with other hematopoietic cytokines in attenuating chemotherapy-induced multilineage myelosuppression: brief communication. Vadhan-Raj S. **Semin Hematol** 1996 Jan;33(1 Suppl 1):16–8 (14 ref.)

Treatment of cancer chemotherapy-induced toxicity with the pineal hormone melatonin. Lissoni P, et al. **Support Care Cancer** 1997 Mar;5(2):126–9

Romurtide, a synthetic muramyl dipeptide derivative, promotes megakaryocytopoiesis through stimulation of cytokine production in nonhuman primates with myelosuppression. Namba K, et al. **Vaccine** 1997 Mar; 15(4):405–13

ETIOLOGY

Development of bone marrow eosinophilia in mice induced by Aspergillus fumigatus antigens. Murali PS, et al. **Clin Immunol Immunopathol** 1997 Aug;84(2):216–20

Bone marrow granulomas in hairy cell leukaemia [letter; comment] Schmidt HH, et al. **Histopathology** 1996 Sep; 29(3):291–2. Comment on: Histopathology 1994 Mar;24(3):271–3.

Fatal bone marrow embolism in a patient with sickle cell beta + thalassaemia. Zaidi Y, et al. **J Clin Pathol** 1996 Sep;49(9):774–5

Enhanced HIV-1 activity in bone marrow can lead to myelopoietic suppression partially contributed by gag p24. Rameshwar P, et al. **J Immunol** 1996 Nov 1;157(9):4244–50

Bone marrow changes in human malaria: a retrospective study. Gandapur AS, et al. **JPMA J Pak Med Assoc** 1997 May;47(5):137–9

GENETICS

Skewed X-chromosome inactivation in female carriers of dyskeratosis congenita. Devriendt K, et al. **Am J Hum Genet** 1997 Mar;60(3):581–7

Pearson marrow pancreas syndrome: a molecular study and clinical management. Seneca S, et al. **Clin Genet** 1997 May; 51(5):338–42

Chromosome 16 inversion in acute myelogenous leukemias with bone marrow eosinophilia [editorial] Ueda R. **Intern Med** 1996 Apr;35(4):241–2 (12 ref.)

Detection of mitochondrial DNA deletions in human skin fibroblasts of patients with Pearson's syndrome by two-color fluorescence in situ hybridization. van de Corput MP, et al. **J Histochem Cytochem** 1997 Jan;45(1):55–61

Severe lactic acidosis and neonatal death in Pearson syndrome. Muraki K, et al. **J Inherit Metab Dis** 1997 Mar; 20(1):43–8

P53 gene mutations in chronic myelogenous leukemia medullary and extramedullary blast crisis. Marasca R, et al. **Leuk Lymphoma** 1996 Dec;24(1–2):175–82

MICROBIOLOGY

Pulmonary alveolar proteinosis and disseminated Mycobacterium avium infection [letter] Couderc LJ, et al. **Respir Med** 1996 Nov;90(10):641–2

PATHOLOGY

Bone marrow mastocytosis associated with an undifferentiated extramedullary tumor of hemopoietic origin. Horny HP, et al. **Arch Pathol Lab Med** 1997 Apr; 121(4):423–6

Early effects of electrical stimulation on osteogenesis. Yonemori K, et al. **Bone** 1996 Aug;19(2):173–80

Cytogenetic study of 30 patients with multiple myeloma: comparison of 3 and 6 day bone marrow cultures stimulated or not with cytokines by using a miniaturized karyotypic method. Brigaudeau C, et al. **Br J Haematol** 1997 Mar; 96(3):594–600

Haemophagocytic lymphohistiocytosis in association with granular lymphocyte proliferative disorders in early childhood: characteristic bone marrow morphology. Imashuku S, et al. **Br J Haematol** 1997 Mar;96(4):708–14

Histomorphology and bone morphometry of the bone marrow edema syndrome of the hip. Plenk H Jr, et al. **Clin Orthop** 1997 Jan;(334):73–84

Bone marrow granulomas in infiltrating lobular breast cancer. Kettle P, et al. **J Clin Pathol** 1997 Feb;50(2):166–8

Antigen retrieval by microwave oven heating for immunohistochemical analysis of bone marrow trephine biopsies. Erber WN, et al. **Pathology** 1996 Jan;28(1):45–50

[Occult involvement of bone marrow in Hodgkin's disease: detection with magnetic resonance] Sanz L, et al. **Med Clin (Barc)** 1996 Jun 22;107(4):143–5 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Intratibial injection of an anti-doxorubicin monoclonal antibody prevents drug-induced myelotoxicity in mice. Morelli D, et al. **Br J Cancer** 1997;75(5):656–9

Use of safety-modified retroviruses to introduce chemotherapy resistance sequences into normal hematopoietic cells for chemoprotection during the therapy of breast cancer: a pilot trial. Deisseroth AB, et al. **Hum Gene Ther** 1996 Feb 10;7(3):401–16

Radio- and chemoprotection of bone marrow cells by opposite cell cycle-acting cytokines [editorial] Dalmau SR, et al. **Leuk Res** 1997 Feb;21(2):93–9 (67 ref.)

Phase I trial of subcutaneous interleukin-1 alpha in children with malignant solid tumors. Furman WL, et al. **Med Pediatr Oncol** 1997 Jun;28(6):444–50

THERAPY

The role of high-dose chemotherapy and stem cell rescue in the treatment of malignant brain tumors. Finlay JL. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S1–5 (20 ref.)

Predictive factors affecting mobilization and peripheral blood stem cell (PBSC) collection using single apheresis (SA) for rescuing patients after high-dose chemotherapy (HD.CHE) in various malignancies. Koumakis G, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1065–72

Hematopoietic and immune recovery after transplantation of cord blood progenitor cells in children. Locatelli F, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1095–101

Mobilized peripheral blood progenitor cells (PBPC) in support of tandem cycles of high-dose chemotherapy (HDC). Meisenberg BR, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1087–93

Platelet transfusions in advanced hematological malignancies: a position paper. Lassauniere JM, et al. **J Palliat Care** 1996 Spring;12(1):38–41

[Introduction and prospect of peripheral blood stem cell transplantation] Nakanishi Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:24–8 (Eng. Abstr.) **(Jpn)**

VETERINARY

Pancytopenia associated with bone marrow aplasia in a Holstein heifer. Ammann VJ, et al. **Can Vet J** 1996 Aug; 37(8):493–5

Azathioprine-induced bone marrow toxicity in four dogs. Rinkardt NE, et al. **Can Vet J** 1996 Oct;37(10):612–3

VIROLOGY

Chronic myelosuppression associated with persistent bone marrow infection due to human herpesvirus 6 in a bone marrow transplant recipient. Knox KK, et al. **Clin Infect Dis** 1996 Jan;22(1):174–5

BONE MARROW EXAMINATION

Diagnostic utility of bone marrow sampling in HIV positive patients [editorial; comment] Brettle RP. **Genitourin Med** 1997 Apr;73(2):85–6. Comment on: Genitourin Med 1997 Apr;73(2):117–21.

Ketamine-midazolam versus meperidine-midazolam for painful procedures in pediatric oncology patients. Marx CM, et al. **J Clin Oncol** 1997 Jan;15(1):94–102

In vivo purging of bone marrow in children with poor-risk neuroblastoma for marrow collection and autologous bone marrow transplantation. Saarinen UM, et al. **J Clin Oncol** 1996 Oct;14(10):2791–802

Demonstration of acid-fast bacilli in buffy coat and bone marrow smear—a diagnostic tool in pulmonary tuberculosis. Sen R, et al. **J Indian Med Assoc** 1996 Oct; 94(10):379–80, 390

[Efficiency of bone marrow aspirate for diagnosis of opportunistic infections in HIV infected patients] Supervía A, et al. **An Med Interna** 1996 Aug;13(8):374–7 (Eng. Abstr.) **(Spa)**

[Usefulness of the bone marrow examination in HIV infected patients (letter)] Moreno García M. **Rev Clin Esp** 1996 Oct; 196(10):728–30 **(Spa)**

[The examination of peripheral blood and bone marrow in the diagnosis of malignant blood diseases] García Marcos MA, et al. **Sangre (Barc)** 1996 Aug;41(4):275–80 (20 ref.) **(Spa)**

ADVERSE EFFECTS

Cognitive behavioral pain and anxiety interventions in pediatric oncology centers and bone marrow transplant units. McCarthy AM, et al. **J Pediatr Oncol Nurs** 1996 Jan;13(1):3–12; discussion 13–4

BONE MARROW EXAMINATION

METHODS

Quantitative comparison of multiple myeloma tumor contamination in bone marrow harvest and leukapheresis autografts. Vescio RA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):103–10

Dual CD38 and DNA staining of plasma cells in monoclonal gammopathies attained by a rapid, non-wash and automated method. Gómez-Arbonés X, et al. **Clin Lab Haematol** 1996 Jun;18(2):95–7

Clinical and prognostic evaluation of bone marrow infiltration (biopsy versus aspirate) in early chronic lymphocytic leukemia. A single center study. Molica S, et al. **Haematologica** 1997 May-Jun;82(3):286–90

Immunophenotype of hairy-cell leukaemia after cold polymerization of methyl-methacrylate embeddings from 50 diagnostic bone marrow biopsies. Kreft A, et al. **Histopathology** 1997 Feb;30(2):145–51

Apoptosis in acute myeloblastic leukemia: follow-up study on trephine biopsies of the bone marrow. Thiele J, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):77–82

[Detection of the Mbcr/abl translocation using FISH in bone marrow samples from patients diagnosed with CML and ALL (letter)] Vargas MT, et al. **Sangre (Barc)** 1996 Oct; 41(5):399–400 **(Spa)**

PSYCHOLOGY

The Perception of Procedures Questionnaire: psychometric properties of a brief parent report measure of procedural distress. Kazak AE, et al. **J Pediatr Psychol** 1996 Apr; 21(2):195–207

STANDARDS

Diagnostic utility of bone marrow sampling in HIV positive patients [see comments] Brook MG, et al. **Genitourin Med** 1997 Apr;73(2):117–21. Comment in: Genitourin Med 1997 Apr;73(2):85–6.

BONE MARROW FIBROSIS see **MYELOFIBROSIS**

BONE MARROW NEOPLASMS

CHEMISTRY

Immunocytochemical phenotyping of disseminated tumor cells in bone marrow by uPA receptor and CK18: investigation of sensitivity and specificity of an immunogold/alkaline phosphatase double staining protocol. Allgayer H, et al. **J Histochem Cytochem** 1997 Feb;45(2):203–12

COMPLICATIONS

[Hypercalcemia as the first manifestation of bone marrow T-cell lymphoma] Mareček Z, et al. **Cas Lek Cesk** 1997 Apr 2;136(7):226–8 (Eng. Abstr.) **(Cze)**

DIAGNOSIS

Cyclin D1 immunohistochemical staining is useful in distinguishing mantle cell lymphoma from other low-grade B-cell neoplasms in bone marrow. Vasef MA, et al. **Am J Clin Pathol** 1997 Sep;108(3):302–7

Detection of micrometastatic prostate cancer cells in the bone marrow of patients with prostate cancer. Deguchi T, et al. **Br J Cancer** 1997;75(5):634–8

Detection of bone marrow metastases in small cell lung cancer. Comparison of magnetic resonance imaging with standard methods. Hochstenbag MM, et al. **Eur J Cancer** 1996 May;32A(5):779–82

Detection of metastatic neuroblastoma in bone marrow: when is routine marrow histology insensitive? Cheung NK, et al. **J Clin Oncol** 1997 Aug;15(8):2807–17

Limitations of reverse-transcriptase polymerase chain reaction analyses for detection of micrometastatic epithelial cancer cells in bone marrow. Zippelius A, et al. **J Clin Oncol** 1997 Jul;15(7):2701–8

Micrometastatic breast cancer cells in bone marrow at primary surgery: prognostic value in comparison with nodal status. Diel IJ, et al. **J Natl Cancer Inst** 1996 Nov 20;88(22):1652–8

Differential diagnosis based on immunological-phenotyping in suspected malignant bone marrow involvement in childhood. Gussetis ES, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):29–41

Fat replacement of Hodgkin disease of bone marrow after chemotherapy: report of three cases. Lien HH, et al. **Skeletal Radiol** 1996 Oct;25(7):671–4

[Experience with low-field magnetic resonance tomography for the diagnosis of bone marrow lesions] Tiutin LA, et al. **Vopr Onkol** 1997;43(2):221–4 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

A phase II study of carboplatin as a treatment for children with acute leukemia recurring in bone marrow: a report of the Children's Cancer Group. Ettinger LJ, et al. **Cancer** 1997 Jul 15;80(2):311–6

METABOLISM

Expression of bcl-2 oncoprotein and p53 protein accumulation in bone marrow metastases of androgen independent prostate cancer [see comments] McDonnell TJ, et al. **J Urol** 1997 Feb;157(2):569–74. Comment in: J Urol 1997 Feb;157(2):575.

PATHOLOGY

Follicular dendritic cells in bone marrow lymphoproliferative diseases: an immunohistochemical study including a new paraffin-resistant monoclonal antibody, DR53. Meugé-Moraw C, et al. **Histopathology** 1996 Apr; 28(4):341–7

Non-specifically labelled cells that simulate bone marrow metastases in patients with non-metastatic breast cancer. Lagrange M, et al. **J Clin Pathol** 1997 Mar;50(3):206–11

MRI gadolinium enhancement of bone marrow: age-related changes in normals and in diffuse neoplastic infiltration. Baur A, et al. **Skeletal Radiol** 1997 Jul;26(7):414–8

[Rare non-Hodgkin's lymphoma in the course of infection with human immunodeficiency virus. Two cases with bone marrow invasion] Charton-Bain MC, et al. **Ann Pathol** 1997 Mar;17(1):38–40 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Bone marrow suppression after strontium-89 therapy and local radiation therapy in patients with diffuse marrow involvement. Powsner RA, et al. **Clin Nucl Med** 1997 Mar; 22(3):147–50

RADIONUCLIDE IMAGING

Comparison of thallium-201 and gallium-67 scintigraphy in soft tissue and bone marrow multiple myeloma: a case report. Roach PJ, et al. **Australas Radiol** 1997 Feb; 41(1):67–9

Diffuse visualization of bone marrow with I-123 IMP in a malignant melanoma. Kanegae K, et al. **Clin Nucl Med** 1996 Sep;21(9):734–6

Evaluating bone marrow metastasis of neuroblastoma with iodine-123-MIBG scintigraphy and MRI. Lebtahi N, et al. **J Nucl Med** 1997 Sep;38(9):1389–92

[Clinical experience of bone marrow scintigraphy in cancer patients] Kanaev SV, et al. **Vopr Onkol** 1997;43(3):275–83 (Eng. Abstr.) **(Rus)**

SECONDARY

Micrometastatic tumor cells in the bone marrow of patients with non-small cell lung cancer. Ohgami A, et al. **Ann Thorac Surg** 1997 Aug;64(2):363–7

Detection of micrometastatic prostate cancer cells in the bone marrow of patients with prostate cancer. Deguchi T, et al. **Br J Cancer** 1997;75(5):634–8

Prognostic relevance of urokinase plasminogen activator detection in micrometastatic cells in the bone marrow of patients with primary breast cancer. Solomayer EF, et al. **Br J Cancer** 1997;76(6):812–8

Bone marrow micrometastases in 109 breast cancer patients: correlations with clinical and pathological features and prognosis. Molino A, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):23–30

Lipid-laden macrophage infiltration of human adenocarcinoma in vivo associated with taxol and GCSF treatment. Abramson N, et al. **Cancer Invest** 1997; 15(1):18–22

Histopathologic analysis of bone marrow and bone metastasis in murine neuroblastoma. Yoshino K, et al. **Clin Exp Metastasis** 1996 Oct;14(5):459–65

Diffuse visualization of bone marrow with I-123 IMP in a malignant melanoma. Kanegae K, et al. **Clin Nucl Med** 1996 Sep;21(9):734–6

Bone marrow suppression after strontium-89 therapy and local radiation therapy in patients with diffuse marrow involvement. Powsner RA, et al. **Clin Nucl Med** 1997 Mar; 22(3):147–50

Prostate cancer: flow cytometric methods for detection of bone marrow micrometastases. Hussain M, et al. **Cytometry** 1996 Mar 15;26(1):40–6

Detection of bone marrow metastases in small cell lung cancer. Comparison of magnetic resonance imaging with standard methods. Hochstenbag MM, et al. **Eur J Cancer** 1996 May;32A(5):779–82

The detection of micrometastases in the peripheral blood and bone marrow of patients with breast cancer using immunohistochemistry and reverse transcriptase polymerase chain reaction for keratin 19. Schoenfeld A, et al. **Eur J Cancer** 1997 May;33(6):854–61

Micrometastases: are they clinically significant disease?[comment] Andreyev HJ, et al. **Gut** 1997 Apr; 40(4):555–6. Comment on: Gut 1997 Apr;40(4):512–5.

Micrometastases: marker of metastatic potential or evidence of residual disease?[see comments] O'Sullivan GC, et al. **Gut** 1997 Apr;40(4):512–5. Comment in: Gut 1997 Apr;40(4):555–6.

Extramammary Paget's disease of the vulva: metastases to the bone marrow in the absence of an underlying adenocarcinoma--case report and literature review. Cappuccini F, et al. **Gynecol Oncol** 1997 Jul;66(1):146–50 (14 ref.)

Bone marrow involvement in Hodgkin's disease -- clinicopathological study of seven cases. Chopra R, et al. **Indian J Pathol Microbiol** 1995 Jul;38(3):267–71

Detection of metastatic neuroblastoma in bone marrow: when is routine marrow histology insensitive? Cheung NK, et al. **J Clin Oncol** 1997 Aug;15(8):2807–17

Limitations of reverse-transcriptase polymerase chain reaction analyses for detection of micrometastatic epithelial cancer cells in bone marrow. Zippelius A, et al. **J Clin Oncol** 1997 Jul;15(7):2701–8

Bone marrow granulomas in infiltrating lobular breast cancer. Kettle P, et al. **J Clin Pathol** 1997 Feb;50(2):166–8

Non-specifically labelled cells that simulate bone marrow metastases in patients with non-metastatic breast cancer. Lagrange M, et al. **J Clin Pathol** 1997 Mar;50(3):206–11

Determination of 1H relaxation times of water in human bone marrow by fat-suppressed turbo spin echo in comparison to MR spectroscopic methods. Träber F, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):541–8

Micrometastatic breast cancer cells in bone marrow at primary surgery: prognostic value in comparison with nodal status. Diel IJ, et al. **J Natl Cancer Inst** 1996 Nov 20;88(22):1652–8

Association of tumor angiogenesis with bone marrow micrometastases in breast cancer patients. Fox SB, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1044–9

Evaluating bone marrow metastasis of neuroblastoma with iodine-123-MIBG scintigraphy and MRI. Lebtahi N, et al. **J Nucl Med** 1997 Sep;38(9):1389–92

Expression of bcl-2 oncoprotein and p53 protein accumulation in bone marrow metastases of androgen independent prostate cancer [see comments] McDonnell TJ, et al. **J Urol** 1997 Feb;157(2):569–74. Comment in: J Urol 1997 Feb;157(2):575.

A case of bone marrow recurrence from gastric carcinoma after a nine-year disease-free interval. Noda N, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):472–5

The role of wide-spectrum cytokeratin staining of the bone marrow cores in patients with ductal carcinoma of the breast. Dunphy CH. **Mod Pathol** 1996 Oct;9(10):955–8

Workup for metastatic retinoblastoma. A review of 261 patients. Karcioglu ZA, et al. **Ophthalmology** 1997 Feb; 104(2):307–12

The mIBG super scan [letter; comment] Giammarile F. **Pediatr Radiol** 1997 Feb;27(2):193. Comment on: Pediatr Radiol 1995 Nov;25 Suppl 1;S90–2.

MRI gadolinium enhancement of bone marrow: age-related changes in normals and in diffuse neoplastic infiltration. Baur A, et al. **Skeletal Radiol** 1997 Jul;26(7):414–8

[Tumor cell dissemination in bone marrow and peritoneal cavity. An immunocytochemical study of patients with stomach or colorectal carcinoma] Broll R, et al. **Langenbecks Arch Chir** 1996;381(1):51–8 (Eng. Abstr.) **(Ger)**

[Meta-analysis of studies on the prognostic value of micrometastasis status of bone marrow] Funke I, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:309–11 (Eng. Abstr.) **(Ger)**

[Comparative study of the dissemination of tumor cells in bone marrow and peripheral blood in stomach and colorectal carcinoma with RT-PCR] Soeth E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:793–6 (Eng. Abstr.) **(Ger)**

[Molecular approach to detection of micrometastatic prostatic cancer cells in the lymph nodes and the bone marrow] Deguchi T, et al. **Hinyokika Kiyo** 1996 Oct; 42(10):787–90 (Eng. Abstr.) **(Jpn)**

[Multiple bone metastasis and bone marrow invasion as an initial manifestation of a medullary thyroid carcinoma (letter)] Guerra Laso JM, et al. **An Med Interna** 1997 May; 14(5):263–4 **(Spa)**

SURGERY

[Chondrosarcoma—an easily treatable tumor?] Donow C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:918–20 (Eng. Abstr.) **(Ger)**

ULTRASTRUCTURE

Ultrastructure of myeloma cells producing parathyroid hormone-related peptide. Kurabayashi H, et al. **Clin Lab Haematol** 1997 Jun;19(2):153–4

BONE MARROW PURGING

Should soybean agglutinin purging be performed in breast cancer patients undergoing autologous stem cell transplantation? A retrospective analysis of 48 patients. Ben-Yosef R, et al. **Am J Clin Oncol** 1997 Aug;20(4):419–23

Purging of autografts: methods and clinical significance. Kvalheim G. **Ann Med** 1996 Apr;28(2):167–73 (67 ref.)

Ex vivo bone marrow purging with oligonucleotides. Bergan RC. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):251–5 (21 ref.)

Purging autologous bone marrow with monoclonal antibodies for transplantation in acute myelogenous leukemia. Hammert LC, et al. **Blood Rev** 1997 Jun; 11(2):80–90 (76 ref.)

Bone marrow transplantation in chronic GvHD and autoimmune diseases. Andolina M, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:145–7

Residual leukemia and immunomagnetic bead purging in patients with BCR-ABL-positive acute lymphoblastic leukemia. Atta J, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):541–8

4-Hydroperoxycyclophosphamide purged autologous bone marrow transplantation in non-Hodgkin's lymphoma patients at high risk of bone marrow involvement. Bird

JM, et al. **Bone Marrow Transplant** 1996 Aug;18(2):309–13

Photochemical purging of autologous bone marrow grafts: assessment of damage to stem cells and the microenvironment in long–term marrow cultures. Kubo Y, et al. **Bone Marrow Transplant** 1997 Jul;20(1):27–31

Factors affecting engraftment and hematopoietic recovery after unpurged autografting in acute leukemia. Mehta J, et al. **Bone Marrow Transplant** 1996 Aug;18(2):319–24

Stem cell manipulation: why and how performing peripheral blood progenitor cell purging. Rizzoli V, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):101–15 (156 ref.)

Purging: elimination of malignant cells from autologous blood or marrow transplants. Champlin R. **Curr Opin Oncol** 1996 Mar;8(2):79–83 (56 ref.)

The role of VP–16 in autologous bone marrow transplantation for acute myeloblastic leukemia. Parikh PM, et al. **J Assoc Physicians India** 1996 Apr;44(4):252–4

Purging of bone marrow in autologous bone marrow transplantation for non–Hodgkin's lymphoma: a case–matched comparison with unpurged cases by the European Blood and Marrow Transplant Lymphoma Registry. Williams CD, et al. **J Clin Oncol** 1996 Sep; 14(9):2454–64

Harvest quality and factors affecting collection and engraftment of CD34+ cells in patients with breast cancer scheduled for high–dose chemotherapy and peripheral blood progenitor cell support. Papadopoulos KP, et al. **J Hematother** 1997 Feb;6(1):61–8

Peripheral blood progenitor cell mobilization with Dexa–Beam/G–CSF, ether lipid purging, and autologous transplantation after high–dose CBV treatment: a safe and effective regimen in patients with poor risk malignant lymphomas. Knauf WU, et al. **Leuk Lymphoma** 1996 Oct; 23(3–4):305–11

Purging effect of dibutyl phthalate on leukemic cells associated with apoptosis. Lisheng W, et al. **Leuk Res** 1996 Nov–Dec;20(11–12):989–92

Merocyanine 540 mediated photolysis of normal bone marrow, committed hemopoietic progenitors and neoplastic cells. implications for bone marrow purging. Lydaki E, et al. **Leuk Res** 1997 Jul;21(7):641–50

Autologous bone marrow purging by in situ IL–2 activation of endogenous killer cells. Margolin KA, et al. **Leukemia** 1997 May;11(5):723–8

Molecular analysis of hematopoietic colonies derived from chronic myeloid leukemia patients: interphase fluorescence in situ hybridization compared with RT–PCR. Thijsen SF, et al. **Leukemia** 1997 Feb;11(2):301–5

Repair capacity of mouse lung after total body irradiation alone or combined with cyclophosphamide. Safwat A, et al. **Radiother Oncol** 1996 Sep;40(3):249–57

Purging: the separation of normal from malignant cells for autologous transplantation. Champlin R. **Transfusion** 1996 Oct;36(10):910–8 (134 ref.)

Serum levels of cytokines and secondary messages after T–cell–depleted and non–T–cell–depleted bone marrow transplantation: influence of conditioning and hematopoietic reconstitution. Schwaighofer H, et al. **Transplantation** 1996 Oct 15;62(7):947–53

[Purging of hemopoietic progenitor cells in autologous transplantation] Hrubá A, et al. **Cas Lek Cesk** 1997 Mar 12;136(5):151–3 (Eng. Abstr.) **(Cze)**

ADVERSE EFFECTS

Pubertal development of children treated with marrow transplantation before puberty [editorial; comment] Sanders JE. **J Pediatr** 1997 Feb;130(2):174–5. Comment on: J Pediatr 1997 Feb;130(2):210–6.

Comparison of the lymphoid toxicities of mitobronitol and busulphan in mice: reduced B cell toxicity and improved thymic recovery as possible contributors to the reduced risk for complications following BMT with mitobronitol preconditioning. Szebeni J, et al. **Leukemia** 1997 Oct; 11(10):1769–74

Successful pregnancy after conditioning with cyclophosphamide and fractionated total body irradiation. Letendre L, et al. **Med Pediatr Oncol** 1997 Feb;28(2):147–8

METHODS

Purging of peripheral blood progenitor cells. Brugger W, et al. **Ann Oncol** 1996;7 Suppl 2:11–3 (23 ref.)

Selection of myeloid progenitors lacking BCR/ABL mRNA in chronic myelogenous leukemia patients after in vitro treatment with the tyrosine kinase inhibitor genistein. Carlo–Stella C, et al. **Blood** 1996 Oct 15;88(8):3091–100

Fate of contaminating t(14; 18)+ lymphoma cells during ex vivo expansion of CD34–selected hematopoietic progenitor cells. Widmer L, et al. **Blood** 1996 Oct 15;88(8):3166–75

Adenoviral vectors in hematology: purging, stem cell gene transfer, or both [letter; comment] Wroblewski JM, et al. **Blood** 1997 Jun 15;89(12):4664–5. Comment on: Blood 1996 Jun 15;87(12):5032–9.

A new 'two step' procedure for 4.5 log depletion of T and B cells in allogeneic transplantation and of neoplastic cells in autologous transplantation. Bertolini F, et al. **Bone Marrow Transplant** 1997 Mar;19(6):615–9

Autografting in Philadelphia (Ph)+ chronic myeloid leukaemia using cultured marrow: an update of a pilot study. Coutinho LH, et al. **Bone Marrow Transplant** 1997 May;19(10):969–76

The efficiency of tumor cell purging using immunomagnetic CD34+ cell separation systems. Roots–Weiss A, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1239–46

Antitumor efficacy of a human major histocompatibility complex nonrestricted cytotoxic T–cell line (TALL–104) in immunocompetent mice bearing syngeneic leukemia. Cesano A, et al. **Cancer Res** 1996 Oct 1;56(19):4444–52

The potential role of amifostine (Ethyol) in haematological malignancies. Gorin NC. **Eur J Cancer** 1996;32A Suppl 4:S31–9 (22 ref.)

Role of cytoprotective mechanisms in the photochemical purging of autologous bone marrow grafts. Yamazaki T, et al. **Exp Hematol** 1997 Jul;25(7):629–37

When bad gene transfer is good [editorial; comment] Wilson JM. **J Clin Invest** 1996 Dec 1;98(11):2435. Comment on: J Clin Invest 1996 Dec 1;98(11):2539–48.

In vivo purging of bone marrow in children with poor–risk neuroblastoma for marrow collection and autologous bone marrow transplantation. Saarinen UM, et al. **J Clin Oncol** 1996 Oct;14(10):2791–802

Optimization of CD34+ cell selection using immunomagnetic beads: implications for use in cryopreserved peripheral blood stem cell collections. Farley TJ, et al. **J Hematother** 1997 Feb;6(1):53–60

Purging of tumor cells from leukapheresis products: experimental and clinical aspects. Kvalheim G, et al. **J Hematother** 1996 Aug;5(4):427–36 (31 ref.)

Pharmacologic bone marrow purging: is there any place for etoposide? In vitro comparison with mafosfamide. Olivieri A, et al. **J Hematother** 1997 Apr;6(2):137–44

Immunocytochemical detection of breast cancer cells: a comparison of three attachment factors. Theocharous P, et al. **J Hematother** 1997 Feb;6(1):21–9

Effect of hypothermia on the merocyanine 540–mediated purging of hematopoietic cells. Yamazaki T, et al. **J Hematother** 1997 Feb;6(1):31–9

Autologous transplantation with CD52 monoclonal antibody–purged marrow for acute lymphoblastic leukemia: long–term follow–up. Mehta J, et al. **Leuk Lymphoma** 1997 May;25(5–6):479–86

Comparative preclinical study of three bone marrow purging methods using PCR evaluation of residual t(14;18) lymphoma cells. Yerly–Motta V, et al. **Leuk Lymphoma** 1996 Oct;23(3–4):313–21

Efficacy and toxicity of radiation in preparative regimens for pediatric stem cell transplantation. I: Clinical applications and therapeutic effects. Miale TD, et al. **Med Oncol** 1995 Dec;12(4):231–49 (162 ref.)

Antisense gene therapy trials underway in patients with CML [news] **Oncology (Huntingt)** 1996 Sep;10(9):1411

Permanent and specific transplantation tolerance induced by a nonmyeloablative treatment to a wide variety of allogeneic tissues: I. Induction of tolerance by a short course of total lymphoid irradiation and selective elimination of the donor–specific host lymphocytes. Prigozhina TB, et al. **Transplantation** 1997 May 27; 63(10):1394–9

[Autologous BMT for B–lineage adult ALL patients using ex vivo purging with monoclonal antibodies] Mizuta S, et al. **Rinsho Ketsueki** 1997 May;38(5):422–5 **(Jpn)**

BONE MARROW TRANSPLANTATION

see related
BONE MARROW PURGING
HEMATOPOIETIC STEM CELL TRANSPLANTATION

Follicular cell carcinoma of the thyroid in a child after bone marrow transplantation for acute lymphoblastic leukemia. Rovelli A, et al. **Acta Haematol** 1997;97(4):225–7

The immunobiology of T cell therapies for leukemias. Shlomchik WD, et al. **Acta Haematol** 1996;96(4):189–213 (145 ref.)

Evolution of multiple myeloma treatment from melphalan monotherapy to bone marrow transplantation. Hájek R, et al. **Acta Med Austriaca** 1996;23(3):85–91 (76 ref.)

Neurophysiologic evaluation of cyclosporine toxicity associated with bone marrow transplantation [corrected and republished article originally printed in Acta Neurol Scand 1995 Nov;92(5):423–9] Edwards LL, et al. **Acta Neurol Scand** 1996 Nov;94(5):358–64 (22 ref.)

High–dose chemotherapy with autologous stem cell support for the treatment of advanced ovarian cancer––initial experience in Uppsala and Turku. Grenman S, et al. **Acta Obstet Gynecol Scand** 1997 Apr;76(4):363–8 (31 ref.)

Transplantation of bone marrow and peripheral stem cells. Alvegård T. **Acta Oncol** 1996;35 Suppl 7:137–40

Renal dysfunction following autologous bone marrow transplantation in adult patients with acute leukemia. Glynne P, et al. **Acta Oncol** 1996;35(6):709–12

Intrathecal prophylaxis following autologous bone marrow transplantation for non–Hodgkin's lymphoma. Varadi G, et al. **Acta Oncol** 1997;36(3):349–50

Treatment of adrenoleukodystrophy with bone marrow transplantation. Malm G, et al. **Acta Paediatr** 1997 May; 86(5):484–92

Hurler syndrome with severe complication in post–bone marrow transplantation course: life threatening interstitial pneumonitis and hypertension. Ohashi T, et al. **Acta Paediatr Jpn** 1995 Dec;37(6):697–700

Allogenic bone marrow transplantation for leukemias and aplastic anemia. Tsai TW, et al. **Adv Intern Med** 1997; 42:423–51 (122 ref.)

Assessment of brain changes with registered MR before and after bone marrow transplantation for chronic myeloid leukemia. Jäger HR, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1275–82

Recurrent Hodgkin's disease after bone marrow transplantation. Shahab I, et al. **Am J Clin Pathol** 1997 Jan;107(1):74–80

The use of amplified variable number of tandem repeats (VNTR) in the detection of chimerism following bone marrow transplantation. A comparison with restriction fragment length polymorphism (RFLP) by Southern blotting. Sreenan JJ, et al. **Am J Clin Pathol** 1997 Mar; 107(3):292–8

Autoimmune hepatitis after cytomegalovirus infection in a bone marrow–transplanted patient [letter] Kamisato T, et al. **Am J Gastroenterol** 1997 Jul;92(7):1238–9

Expanded use of oral granisetron [letter] King RS, et al. **Am J Health Syst Pharm** 1996 Aug 1;53(15):1849

Compatibility of commonly used bone marrow transplant drugs during Y–site delivery. Najari Z, et al. **Am J Health Syst Pharm** 1997 Jan 15;54(2):181–4

Gancyclovir–induced megakaryocyte loss in chronic myelogenous leukemia post bone–marrow transplant [letter] Gardner L, et al. **Am J Hematol** 1996 Nov; 53(3):204–5

Chronic inflammatory demyelinating polyneuropathy in non–Hodgkin's lymphoma. Griggs JJ, et al. **Am J Hematol** 1997 Apr;54(4):332–4

Elevated levels of soluble ICAM–1 in serum of patients with acute myeloid leukemia undergoing bone marrow transplantation. Maeda Y, et al. **Am J Hematol** 1996 Jul; 52(3):227–8

Allogeneic bone marrow transplantation for a patient complicated by chronic hepatitis due to precore mutant hepatitis B virus: failure of management with interferon–alpha therapy [letter] Miura Y, et al. **Am J Hematol** 1997 Apr;54(4):344–5

Infectious morbidity in long–term survivors of allogeneic marrow transplantation is associated with low CD4 T cell counts. Storek J, et al. **Am J Hematol** 1997 Feb;54(2):131–8

Pulmonary interstitial disease mimicking idiopathic pneumonia syndrome as the initial site of relapse of neuroblastoma following autologous bone–marrow transplantation: a case report. Watts RG, et al. **Am J Hematol** 1996 Oct;53(2):137–40

Autologous bone marrow versus non–mobilized peripheral blood stem cell transplantation for lymphoid malignancies: a prospective, comparative trial. Weisdorf DJ, et al. **Am J Hematol** 1997 Mar;54(3):202–8

Biochemical and molecular analysis in a patient with the severe form of Hunter syndrome after bone marrow transplantation. Li P, et al. **Am J Med Genet** 1996 Sep 6;64(4):531–5

Bone marrow transplantation for non–Hodgkin's lymphoma: a review. Salzman DE, et al. **Am J Med Sci** 1997 Apr; 313(4):228–35 (32 ref.)

Giving the gift of time. Perrin KO. **Am J Nurs** 1996 Oct; 96(10):88

Percutaneous nonangiographic insertion of Hickman catheters in marrow transplant recipients by anesthesiologists and intensivists. Muhm M, et al. **Anesth Analg** 1997 Jan;84(1):80–4

Association of natural killer cell immune recovery with a graft–versus–leukemia effect independent of graft–versus–host disease following allogeneic bone marrow transplantation. Jiang YZ, et al. **Ann Hematol** 1997 Jan;74(1):1–6

Accelerated platelet reconstitution following transplantation of bone marrow cells derived from IL–6–treated donor mice. Laterveer L, et al. **Ann Hematol** 1996 Nov; 73(5):239–45

Assessment of the composition of bone marrow prior to and following autologous BMT and PBSCT by magnetic resonance. Schick F, et al. **Ann Hematol** 1996 Jun; 72(6):361–70

High–dose therapy followed by bone marrow transplantation for relapsed follicular non–Hodgkin's lymphoma. Dutch HOVON Group. Schouten IC, et al. **Ann Hematol** 1996 Dec;73(6):273–7

Primary treatment of acquired aplastic anemia: outcomes with bone marrow transplantation and immunosuppressive therapy. Seattle Bone Marrow Transplant Team [see comments] Doney K, et al. **Ann Intern Med** 1997 Jan 15; 126(2):107–15. Comment in: Ann Intern Med 1997 Jan 15;126(2):166–8.

Health and functional status of long–term survivors of bone marrow transplantation. EBMT Working Party on Late Effects and EULEP Study Group on Late Effects. European Group for Blood and Marrow Transplantation. Duell T, et al. **Ann Intern Med** 1997 Feb 1;126(3):184–92

Results of transplanting bone marrow from genetically identical twins into patients with aplastic anemia [see comments] Hinterberger W, et al. **Ann Intern Med** 1997 Jan 15;126(2):116–22. Comment in: Ann Intern Med 1997 Jan 15;126(2):166–8.

Allogenic bone marrow transplantation in chronic lymphocytic leukemia [letter; comment] Khouri I, et al. **Ann Intern Med** 1996 Nov 1;125(9):780. Comment on: Ann Intern Med 1996 Feb 1;124(3):311–5.

Bone marrow transplantation in immunodeficiency diseases. Friedrich W. **Ann Med** 1996 Apr;28(2):115–9 (35 ref.)

Bone marrow and peripheral blood stem cell transplantation in multiple myeloma [editorial; comment] Gahrton G. **Ann Oncol** 1997 Mar;8(3):219-21 (27 ref.). Comment on: Ann Oncol 1997 Mar;8(3):243-6.

The pharmacokinetics and toxicity of two application schedules with high-dose VP-16 in patients receiving an allogeneic bone marrow transplantation. Mross K, et al. **Ann Oncol** 1996 Jan;7(1):83-8

Multivariate analyses of prognostic factors associated with hematopoietic recovery in autograft patients with different sources of progenitor cells. A GATMO experience. Argintine Group of Bone Marrow Transplant. Pavlovsky S, et al. **Ann Oncol** 1996 Sep;7(7):719-24

Intensive therapy and autotransplant for patients with an incomplete response to front-line therapy for lymphoma. Prince HM, et al. **Ann Oncol** 1996 Dec;7(10):1043-9

Guidelines for prophylaxis of cytomegalovirus disease in bone marrow transplant patients. Badas A, et al. **Ann Pharmacother** 1996 Dec;30(12):1483-6

Antithymocyte immunoglobulin in severe aplastic anemia and bone marrow transplantation. Colby C, et al. **Ann Pharmacother** 1996 Oct;30(10):1164-74 (76 ref.)

Cytomegalovirus prophylaxis and treatment following bone marrow transplantation. Tsinontides AC, et al. **Ann Pharmacother** 1996 Nov;30(11):1277-90 (79 ref.)

Immediate breast reconstruction in the high-risk adjuvant setting. Wey PD, et al. **Ann Plast Surg** 1997 Apr; 38(4):342-4

Factors influencing the haematological recovery after allogeneic bone marrow transplantation in leukaemia patients treated with methotrexate-containing GVHD prophylaxis: a single-centre experience. Hassan HT, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):589-99

Pharmacokinetics of oral fluconazole when used for prophylaxis in bone marrow transplant recipients. El-Yazigi A, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):914-7

Enteral nutrition after bone marrow transplantation. Papadopoulou A, et al. **Arch Dis Child** 1997 Aug; 77(2):131-6

Bone marrow transplantation for mucopolysaccharidosis type I: experience of two British centres. Vellodi A, et al. **Arch Dis Child** 1997 Feb;76(2):92-9

Successful bone marrow transplantation in a Chinese boy with Wiskott-Aldrich syndrome. Huang MT, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):57-63

Five year leukaemia-free survival of 72% and 77% for early stage acute and chronic myeloid leukaemia treated by HLA-identical sibling bone marrow transplantation [see comments] Atkinson K, et al. **Aust N Z J Med** 1996 Feb; 26(1):54-8. Comment in: Aust N Z J Med 1996 Aug;26(4):570-1.

Factors influencing the outcome of donor marrow transplantation in adults from less than ideal donors: experience from two Australian centres. Grigg A, et al. **Aust N Z J Med** 1997 Jun;27(3):311-8

Allogeneic bone marrow transplantation for relapsed acute myeloid leukaemia (AML) [letter; comment] Grigg A, et al. **Aust N Z J Med** 1996 Aug;26(4):570-1. Comment on: Aust N Z J Med 1996 Feb;26(1):54-8.

Improved automated bone marrow processing and enrichment of CD34+ cells by a large-volume apheresis procedure. Cassens U, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:175-9

Novel approaches in blood and marrow transplantation. Report on the 2nd annual scientific meeting of The American Society for Blood and Marrow Transplantation. Joint Special Conference with the American Association for Cancer Research. Jointly sponsored by the College of Physicians and Surgeons of Columbia University. October 2-6, 1996, San Diego, CA. **Biol Blood Marrow Transplant** 1996 Oct;2(3):145-72

American Society for Blood and Marrow Transplantation guidelines for training. Appelbaum F, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):56

Perforin- and Fas-mediated cytotoxic pathways are not required for allogeneic resistance to bone marrow grafts in mice. Baker MB, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):69-73

Paradoxical effect of thalidomide prophylaxis on chronic graft-vs.-host disease. Chao NJ, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):86-92

Comparison of long-term outcome of children with severe aplastic anemia treated with immunosuppression versus bone marrow transplantation. Gillio AP, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):18-24

Marrow transplantation for hepatitis-associated aplastic anemia: a follow-up of long-term survivors. Kiem HP, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):93-9

Study design, statistical analyses, and results reporting in the bone marrow transplantation literature. Niland JC, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):47-53 (52 ref.)

American Society for Blood and Marrow Transplantation guidelines for clinical centers. Phillips G, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):54-5

Polymerase chain reaction-based detection of minimal residual disease in acute lymphoblastic leukemia predicts relapse after allogeneic BMT. Radich J, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):24-31

Transplantation of purified hematopoietic stem cells: requirements for overcoming the barriers of allogeneic engraftment [published erratum appears in Biol Blood Marrow Transplant 1997 Apr;3(1):50] Shizuru JA, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):3-14

Principles of graft-vs.-leukemia reactivity. Truitt RL, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):61-8 (71 ref.)

Barriers to bone marrow transplantation for sickle cell anemia. Walters MC, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):100-4

Histological and biochemical evaluation of osteogenic response in porous hydroxyapatite coated alumina ceramics. Takaoka T, et al. **Biomaterials** 1996 Aug; 17(15):1499-505

Autologous bone marrow transplantation in chronic lymphocytic leukemia (CLL). Mangoni L, et al. **Biomed Pharmacother** 1996;50(9):442-6

Does the granulocyte-macrophage colony-forming unit content in ex vivo-expanded grafts predict the recovery of the recipient leukocytes? Albella B, et al. **Blood** 1997 Jul 1;90(1):464-70

Persistence of antibody to human parvovirus B19 after allogeneic bone marrow transplantation: role of prior recipient immunity. Ang HA, et al. **Blood** 1997 Jun 15; 89(12):4646-51

Phlebotomy to reduce iron overload in patients cured of thalassemia by bone marrow transplantation. Italian Cooperative Group for Phlebotomy Treatment of Transplanted Thalassemia Patients. Angelucci E, et al. **Blood** 1997 Aug 1;90(3):994-8

Transient increase of leukocytes after transplantation of expanded and nonexpanded allogeneic CD34+ blood cells is of host origin [letter] Arseniev L, et al. **Blood** 1997 Feb 1;89(3):1116-8

Successful correction of hemophagocytic lymphohistiocytosis with related or unrelated bone marrow transplantation. Baker KS, et al. **Blood** 1997 May 15; 89(10):3857-63

Allogeneic marrow transplantation for multiple myeloma: an analysis of risk factors on outcome. Bensinger WI, et al. **Blood** 1996 Oct 1;88(7):2787-93

Allogeneic peripheral blood stem cell transplantation in patients with advanced hematologic malignancies: a retrospective comparison with marrow transplantation. Bensinger WI, et al. **Blood** 1996 Oct 1;88(7):2794-800

Autologous transplantation therapy for chronic myelogenous leukemia. Bhatia R, et al. **Blood** 1997 Apr 15;89(8):2623-34 (103 ref.)

Allogeneic bone marrow transplantation versus autologous stem cell transplantation in multiple myeloma: a retrospective case-matched study from the European Group for Blood and Marrow Transplantation. Björkstrand BB, et al. **Blood** 1996 Dec 15;88(12):4711-8

The hemoglobin-deficit mouse: analysis of phenotype and hematopoiesis in the transplant model. Bloom ML, et al. **Blood** 1997 Sep 1;90(5):2062-7

Cytomegalovirus pp65 antigenemia-guided early treatment with ganciclovir versus ganciclovir at engraftment after allogeneic marrow transplantation: a randomized double-blind study. Boeckh M, et al. **Blood** 1996 Nov 15; 88(10):4063-71

Randomized trial of autologous filgrastim-primed bone marrow transplantation versus filgrastim-mobilized peripheral blood stem cell transplantation in lymphoma patients. Damiani D, et al. **Blood** 1997 Jul 1;90(1):36-42

Local clonal analysis of the hematopoietic system shows that multiple small short-living clones maintain life-long hematopoiesis in reconstituted mice. Drize NJ, et al. **Blood** 1996 Oct 15;88(8):2927-38

Donor gamma delta T lymphocytes promote allogeneic engraftment across the major histocompatibility barrier in mice. Drobyski WR, et al. **Blood** 1997 Feb 1;89(3):1100-9

Consensus conference on unrelated donor bone marrow transplantation: Royal College of Physicians of Edinburgh, October 29th and 30th, 1996 [letter] Franklin IM. **Blood** 1997 Mar 15;89(6):2226-8

High-dose therapy and autologous bone marrow transplantation in patients with follicular lymphoma during first remission. Freedman AS, et al. **Blood** 1996 Oct 1; 88(7):2780-6

Donor leukocyte infusion for leukemic relapse after allogeneic marrow transplantation: lack of residual donor hematopoiesis predicts aplasia. Keil F, et al. **Blood** 1997 May 1;89(9):3113-7

Candida parapsilopsis fungemias in bone marrow transplant recipients: implications for azole prophylactic therapy [letter; comment] López-Jiménez J, et al. **Blood** 1997 May 1;89(9):3491-2. Comment on: Blood 1996 Jan 15;87(2):838-9.

CD34+ cell dose predicts survival, posttransplant morbidity, and rate of hematologic recovery after allogeneic marrow transplants for hematologic malignancies. Mavroudis D, et al. **Blood** 1996 Oct 15;88(8):3223-9

Autologous bone marrow transplantation for acute promyelocytic leukemia in second remission: prognostic relevance of pretransplant minimal residual disease assessment by reverse-transcription polymerase chain reaction of the PML/RAR alpha fusion gene. Meloni G, et al. **Blood** 1997 Aug 1;90(3):1321-5

Blast crisis of chronic myelogenous leukemia in long-lasting systemic lupus erythematosus: regression of both diseases after autologous bone marrow transplantation [letter; comment] Meloni G, et al. **Blood** 1997 Jun 15;89(12):4659 . Comment on: Blood 1996 Nov 1;88(9):3621-5.

Bone marrow transplantation in acid sphingomyelinase-deficient mice: engraftment and cell migration into the brain as a function of radiation, age, and phenotype. Miranda SR, et al. **Blood** 1997 Jul 1; 90(1):444-52

Immunotherapy with recombinant human interleukin-2 and recombinant interferon-alpha in lymphoma patients postautologous marrow or stem cell transplantation. Nagler A, et al. **Blood** 1997 Jun 1;89(11):3951-9

Improved immune reconstitution after allotransplantation of peripheral blood stem cells instead of bone marrow [see comments] Ottinger HD, et al. **Blood** 1996 Oct 1; 88(7):2775-9. Comment in: Blood 1997 May 15;89(10):3891-3.

Bone marrow transplantation for severe aplastic anemia: has outcome improved? Passweg JR, et al. **Blood** 1997 Jul 15; 90(2):858-64

Evidence of both ontogeny and transplant dose-regulated expansion of hematopoietic stem cells in vivo. Pawliuk R, et al. **Blood** 1996 Oct 15;88(8):2852-8

Developmental outcome of unrelated donor bone marrow transplantation in children with Hurler syndrome [letter] Phipps S, et al. **Blood** 1997 Jan 15;89(2):732-4

Detection of bcr-abl transcripts in Philadelphia chromosome-positive acute lymphoblastic leukemia after marrow transplantation. Radich J, et al. **Blood** 1997 Apr 1;89(7):2602-9

Hepatitis C and G virus infection and liver dysfunction after allogeneic bone marrow transplantation: results from a prospective study. Rodriguez-Iñigo E, et al. **Blood** 1997 Aug 1;90(3):1326-31

Allogeneic bone marrow transplant for multiple myeloma [letter] Russell NH, et al. **Blood** 1997 Apr 1;89(7):2610-1

A murine model for human cord blood transplantation: near-term fetal and neonatal peripheral blood cells can achieve long-term bone marrow engraftment in sublethally irradiated adult recipients. Scaradavou A, et al. **Blood** 1997 Feb 1;89(3):1089-99

Marrow transplants from unrelated donors for treatment of Philadelphia chromosome-positive acute lymphoblastic leukemia. Sierra J, et al. **Blood** 1997 Aug 15;90(4):1410-4

Transplantation of marrow cells from unrelated donors for treatment of high-risk acute leukemia: the effect of leukemic burden, donor HLA-matching, and marrow cell dose. Sierra J, et al. **Blood** 1997 Jun 1;89(11):4226-35

Marrow transplantation for chronic myeloid leukemia: the influence of plasma busulfan levels on the outcome of transplantation. Slattery JT, et al. **Blood** 1997 Apr 15; 89(8):3055-60

CD6-depleted allogeneic bone marrow transplantation for acute leukemia in first complete remission. Soiffer RJ, et al. **Blood** 1997 Apr 15;89(8):3039-47

Relevance of prognostic features in myeloid metaplasia to selection of patients for bone marrow transplantation [letter; comment] Stein RS. **Blood** 1997 Mar 15; 89(6):2219-20. Comment on: Blood 1996 Aug 1;88(3):1013-8.

Long-term follow-up of allogeneic marrow transplants in patients with aplastic anemia conditioned by cyclophosphamide combined with antithymocyte globulin [letter] Storb R, et al. **Blood** 1997 May 15;89(10):3890-1

Stable mixed hematopoietic chimerism in DLA-identical littermate dogs given sublethal total body irradiation before and pharmacological immunosuppression after marrow transplantation. Storb R, et al. **Blood** 1997 Apr 15; 89(8):3048-54

Host conditioning with 5-fluorouracil and kit-ligand to provide for long-term bone marrow engraftment. van Os R, et al. **Blood** 1997 Apr 1;89(7):2376-83

Lymphotropic herpesviruses in allogeneic bone marrow transplantation. Wang FZ, et al. **Blood** 1996 Nov 1; 88(9):3615-20

Consensus Conference on unrelated donor bone-marrow transplantation. Royal College of Physicians of Edinburgh, 29-30 October 1996. **Blood Rev** 1996 Dec;10(4):210-5 (4 ref.)

Purging autologous bone marrow with monoclonal antibodies for transplantation in acute myelogenous leukemia. Hammert LC, et al. **Blood Rev** 1997 Jun; 11(2):80-90 (76 ref.)

Unrelated bone-marrow transplantation in adults. Huntly BJ, et al. **Blood Rev** 1996 Dec;10(4):220-30 (85 ref.)

Molecular histocompatibility typing in unrelated donor bone marrow transplantation. Madrigal JA, et al. **Blood Rev** 1997 Jun;11(2):105-17 (101 ref.)

Adoptive immunotherapy post bone-marrow transplantation. Perry AR, et al. **Blood Rev** 1996 Dec;10(4):237-41 (24 ref.)

ABC of clinical haematology. Bone marrow and stem cell transplantation. Duncombe A. **BMJ** 1997 Apr 19; 314(7088):1179-82 (0 ref.)

Anonymity for unrelated bone marrow donors should remain [letter] Warwick R. **BMJ** 1997 Aug 30;315(7107):548-9

Marrow transplantation in children: current results and controversies. Meeting #2. Hilton Head Island, South Carolina, USA, June 1-3, 1995. Proceedings and abstracts. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S1-77

22nd Annual meeting of the EBMT and 12th meeting of the Nurses Group. Vienna, Austria, March 3-7, 1996. Abstracts. **Bone Marrow Transplant** 1996 Mar;17 Suppl 1:S1-188

Advances in CML-Therapy. Interferon and Autografting 4th International Workshop. Proceedings. Wachenburg/Weinheim, Germany, 23-24 June 1995.

Bone Marrow Transplant 1996 May;17 Suppl 3:S1–74

23rd Annual meeting of the European Group for Blood and Marrow Transplantation and 13th meeting of the Nurses Group. Aix-les-Bains, France, March 23–27, 1997. Abstracts. **Bone Marrow Transplant** 1997 Mar;19 Suppl 1:S1–259

Proceedings of the 3rd International Symposium on Bone Marrow Transplantation in Thalassemia. Pesaro, Italy, 28–29 September 1996. **Bone Marrow Transplant** 1997 Mar; 19 Suppl 2:1–213

Proceedings of the 2nd International Course on Bone Marrow Transplantation in Children. Erice, Italy, 27–30 April 1996. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:1–188

Interleukin-7–enhanced cytotoxic T lymphocyte activity after viral infection in marrow transplanted mice. Abdul-Hai A, et al. **Bone Marrow Transplant** 1997 Mar; 19(6):539–43

Successful bone marrow transplantation from an HLA-identical unrelated donor in a patient with hemophagocytic lymphohistiocytosis. Adachi S, et al. **Bone Marrow Transplant** 1997 Jan;19(2):183–5

Indium-labeled white blood cells apheresed from donors receiving G-CSF localize to sites of inflammation when infused into allogeneic bone marrow transplant recipients. Adkins D, et al. **Bone Marrow Transplant** 1997 Apr; 19(8):809–12

Single and double autotransplants for relapsing/refractory Hodgkin's disease: results of two consecutive trials. Ahmed T, et al. **Bone Marrow Transplant** 1997 Mar;19(5):449–54

Cyclosporin A–induced ocular flutter after marrow transplantation. Apsner R, et al. **Bone Marrow Transplant** 1997 Aug;20(3):255–6

Eosinophilia after allogeneic bone marrow transplantation using busulfan and cyclophosphamide conditioning regimen [letter; comment] Arslan O, et al. **Bone Marrow Transplant** 1996 Jul;18(1):261. Comment on: Bone Marrow Transplant 1994 Jul;14(1):113–5.

Lenograstim administration to HLA-identical donor-recipient pairs to accelerate marrow recovery post-transplant. Atkinson K, et al. **Bone Marrow Transplant** 1997 Jan;19(1):15–21

Residual leukemia and immunomagnetic bead purging in patients with BCR-ABL-positive acute lymphoblastic leukemia. Atta J, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):541–8

Mismatched transplant for acute lymphoblastic leukemia. Aversa F. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:36–9

Conditioning with cyclophosphamide/antithymocyte globulin for allogeneic bone marrow transplantation from HLA-matched siblings in children with severe aplastic anemia. Azuma E, et al. **Bone Marrow Transplant** 1997 Jun; 19(11):1085–7

Donor leukocyte transfusions and discontinuation of immunosuppressants to achieve an initial remission after allogeneic bone marrow transplantation in a patient with primary refractory acute leukemia. Azuno Y, et al. **Bone Marrow Transplant** 1996 Jul;18(1):257–9

Donor lymphocyte infusions (DLI) in patients with chronic myeloid leukemia following allogeneic bone marrow transplantation. Bacigalupo A, et al. **Bone Marrow Transplant** 1997 May;19(9):927–32

Mixed hematopoietic chimerism after allogeneic bone marrow transplantation: the impact of quantitative PCR analysis for prediction of relapse and graft rejection in children. Bader P, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):697–702

Additional immunotherapy on the basis of increasing mixed hematopoietic chimerism after allogeneic BMT in children with acute leukemia: is there an option to prevent relapse? Bader P, et al. **Bone Marrow Transplant** 1997 Jul; 20(1):79–81

Engraftment following in utero bone marrow transplantation for globoid cell leukodystrophy. Bambach BJ, et al. **Bone Marrow Transplant** 1997 Feb;19(4):399–402

Syngeneic marrow transplantation in patients with multiple myeloma. Bensinger WI, et al. **Bone Marrow Transplant** 1996 Sep;18(3):527–31

Long-term engraftment failure after marrow ablation and autologous hematopoietic reconstitution: differences between peripheral blood stem cell and bone marrow recipients. Bentley SA, et al. **Bone Marrow Transplant** 1997 Mar;19(6):557–63

Busulfan/cyclophosphamide in volunteer unrelated donor (VUD) BMT: excellent feasibility and low incidence of treatment-related toxicity. Bertz H, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1169–73

4-Hydroperoxycyclophosphamide purged autologous bone marrow transplantation in non-Hodgkin's lymphoma patients at high risk of bone marrow involvement. Bird JM, et al. **Bone Marrow Transplant** 1996 Aug;18(2):309–13

Long-term survival in advanced chronic myelogenous leukemia following bone marrow transplantation from haploidentical related donors. Bishop MR, et al. **Bone Marrow Transplant** 1996 Oct;18(4):747–53

Presence of human polyomavirus DNA in the peripheral circulation of bone marrow transplant patients with and without hemorrhagic cystitis. Bogdanovic G, et al. **Bone Marrow Transplant** 1996 Apr;17(4):573–6

Durability of remission after ABMT for NHL: the importance of the 2-year evaluation point. Bolwell B, et al. **Bone Marrow Transplant** 1997 Mar;19(5):443–8

Successful pregnancy after bone marrow transplantation for thalassaemia. Borgna-Pignatti C, et al. **Bone Marrow Transplant** 1996 Jul;18(1):235–6

Interferon-gamma-mediated prevention of graft-versus-host disease: development of immune competent and allo-tolerant T cells in chimeric mice. Brok HP, et al. **Bone Marrow Transplant** 1997 Mar;19(6):601–6

High-dose fractionated total-body irradiation, etoposide and cyclophosphamide for treatment of malignant lymphoma: comparison of autologous bone marrow and peripheral blood stem cells. Brunvand MW, et al. **Bone Marrow Transplant** 1996 Jul;18(1):131–41

Enhanced graft-versus-host disease in older recipient mice following allogeneic bone marrow transplantation. Bryson JS, et al. **Bone Marrow Transplant** 1997 Apr;19(7):721–8

Plasma levels of granulocyte colony-stimulating factor in patients after allogeneic bone marrow transplantation for chronic myeloid leukemia correlate with engraftment of transplanted marrow. Busch FW, et al. **Bone Marrow Transplant** 1997 Apr;19(7):653–9

Administration of recombinant human granulocyte-macrophage colony-stimulating factor after autologous bone marrow transplantation in children with acute myelogenous leukemia: a note of caution. Calderwood S, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):87–91 (23 ref.)

Effects of different routes of cyclosporin A administration on blood levels in patients undergoing bone marrow transplantation. Capone D, et al. **Bone Marrow Transplant** 1997 Feb;19(4):369–72

Allogeneic bone marrow transplantation for children with acute lymphoblastic leukemia conditioned with busulfan, cyclophosphamide and melphalan. Carpenter PA, et al. **Bone Marrow Transplant** 1996 Sep;18(3):489–94

Filgrastim for the treatment of leukemia relapse after bone marrow transplantation. Carral A, et al. **Bone Marrow Transplant** 1996 Oct;18(4):817–9

Study of chimerism in long-term survivors after bone marrow transplantation for severe acquired aplastic anemia. Casado LF, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):405–9

Increased serum levels of circulating intercellular adhesion molecule 1 predict the risk of graft rejection after bone marrow transplantation for thalassemia. Centis F, et al. **Bone Marrow Transplant** 1997 Jul;20(2):125–8

Evolving concepts of prevention and treatment of invasive fungal infections in pediatric bone marrow transplant recipients. Chanock SJ, et al. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S15–20 (53 ref.)

Pre-emptive ganciclovir treatment can play a role in restoration of hematopoiesis after allogeneic bone marrow transplantation. Choi JH, et al. **Bone Marrow Transplant** 1997 Jan;19(2):187–90

Marrow transplantation for CML: the Seattle experience. Clift RA, et al. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S1–3

Granulocyte-macrophage colony-stimulating factor accelerates hematopoietic recovery after autologous bone marrow or peripheral blood progenitor cell transplantation and high-dose chemotherapy for lymphoma. Colombat P, et al. **Bone Marrow Transplant** 1996 Aug;18(2):293–9

Influence of graft-versus-host disease on outcome following allogeneic transplantation with radiation-free preparative therapy in patients with advanced leukemia. Copelan EA, et al. **Bone Marrow Transplant** 1996 Nov;18(5):907–11

Unrelated donor bone marrow transplant in childhood ALL. The role of T-cell depletion. Cornish JM, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:31–5

Autologous and allogeneic transplantation for multiple myeloma at a single centre. Couban S, et al. **Bone Marrow Transplant** 1997 Apr;19(8):783–9

Autologous bone marrow mixed with HLA-haploidentical allogeneic marrow transplantation for treatment of patients with malignant blood diseases. Da WM, et al. **Bone Marrow Transplant** 1997 Jan;19(2):107–12

Interferon-gamma plays a key role in the human mixed lymphocyte culture. Danzer SG, et al. **Bone Marrow Transplant** 1996 Nov;18(5):991–6

Prognostic factors for survival of non-Hodgkin's lymphoma patients treated with high-dose chemotherapy and autologous bone marrow transplantation. de Kreuk M, et al. **Bone Marrow Transplant** 1996 Jun;17(6):963–71

Penicillium brevicompactum as the cause of a necrotic lung ball in an allogeneic bone marrow transplant recipient. de la Cámara R, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1189–93

Autologous bone marrow transplantation for patients with acute myeloblastic leukemia in relapse after autologous blood stem cell transplantation. de la Rubia J, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1167–73

Bone marrow transplantation after failure of autologous transplant for non-Hodgkin's lymphoma. de Lima M, et al. **Bone Marrow Transplant** 1997 Jan;19(2):121–7

Busulfan and cyclophosphamide (BU/CY2) as preparative regimen for patients with lymphoma. de Magalhaes-Silverman M, et al. **Bone Marrow Transplant** 1997 Apr;19(8):777–81

High-dose busulfan and cyclophosphamide followed by autologous transplantation in patients with advanced breast cancer. Demirer T, et al. **Bone Marrow Transplant** 1996 May;17(5):769–74

Treatment of patients with myelodysplastic syndromes with allogeneic bone marrow transplantation from genotypically HLA-identical sibling and alternative donors. Demuynck H, et al. **Bone Marrow Transplant** 1996 May;17(5):745–51

Haploidentical bone marrow transplants for two patients with reticular dysgenesis. De Santes KB, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1171–3

Tacrolimus (FK506)-induced cerebral blindness following bone marrow transplantation. Devine SM, et al. **Bone Marrow Transplant** 1996 Sep;18(3):569–72

In vitro T cell depletion using Campath 1M for mismatched BMT for severe combined immunodeficiency (SCID). Dickinson AM, et al. **Bone Marrow Transplant** 1997 Feb; 19(4):323–9

Bone marrow transplant indications for childhood leukemias: achieving a consensus. The EBMT Pediatric Diseases Working Party. Dini G, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:4–7

Unrelated-donor bone marrow transplantation for Philadelphia chromosome-positive chronic myelogenous leukemia in children: experience of eight European Countries. The EBMT Paediatric Diseases Working Party. Dini G, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:80–5 (13 ref.)

Phase II study of recombinant human granulocyte colony-stimulating factor in children undergoing bone marrow transplantation. Dini G, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:121–8

Clonal predominance of cytomegalovirus-specific CD8+ cytotoxic T lymphocytes in bone marrow recipients. Dolstra H, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):339–45

Cardiovascular function in children following bone marrow transplant: a cross-sectional study. Eames GM, et al. **Bone Marrow Transplant** 1997 Jan;19(1):61–6

A phase I trial of recombinant human interleukin-1 beta (OCT-43) following high-dose chemotherapy and autologous bone marrow transplantation. Elkordy M, et al. **Bone Marrow Transplant** 1997 Feb;19(4):315–22

Molecular studies of chimerism and minimal residual disease after allogeneic peripheral blood progenitor cell or bone marrow transplantation. Elmaagacli AH, et al. **Bone Marrow Transplant** 1996 Aug;18(2):397–403

Related donor marrow transplant for chronic myeloid leukemia: patient characteristics predictive of outcome. Enright H, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):537–42

CsA-associated neurotoxicity and ineffective prophylaxis with clonazepam in patients transplanted for thalassemia major: analysis of risk factors. Erer B, et al. **Bone Marrow Transplant** 1996 Jul;18(1):157–62

The role of total body irradiation (TBI). The Italian Association of Pediatric Hematology Oncology (AIEOP) BMT Study Group. Favre C, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:71–4

Phase I study of high-dose etoposide phosphate in man. Fields SZ, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):851–6

Hyperkalemia associated with cyclosporine (CsA) use in bone marrow transplantation. Fleming DR, et al. **Bone Marrow Transplant** 1997 Feb;19(3):289–91

CML blast crisis resulting in biliary obstruction following BMT. Fleming DR, et al. **Bone Marrow Transplant** 1997 Apr;19(8):853–4

Allogeneic bone marrow transplantation with T cell-depleted partially matched related donors for advanced acute lymphoblastic leukemia in children and adults: a comparative matched cohort study. Fleming DR, et al. **Bone Marrow Transplant** 1996 Jun;17(6):917–22

A Consensus Statement on unrelated donor bone marrow transplantation from the Consensus Panel chaired by EC Gordon-Smith. Franklin IM. **Bone Marrow Transplant** 1997 May;19(10):959–62 (5 ref.)

Autologous bone marrow transplantation in relapsed HIV-related non-Hodgkin's lymphoma. Gabarre J, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1195–7

Neurologic complications after allogeneic bone marrow transplantation. Gallardo D, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1135–9

Transmission of hepatitis C virus in allografted patients: use of viral genotyping as an epidemiological marker. Gangneux JP, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1131–3

Myeloablative therapy and bone marrow rescue in advanced neuroblastoma. Report from the Italian Bone Marrow Transplant Registry. Italian Association of Pediatric Hematology-Oncology, BMT Group. Garaventa A, et al. **Bone Marrow Transplant** 1996 Jul;18(1):125–30

Persistent donor chimaerism is consistent with disease-free survival following BMT for chronic myeloid leukaemia. Gardiner N, et al. **Bone Marrow Transplant** 1997 Aug; 20(3):235–41

Allogeneic bone marrow transplantation with matched unrelated donors for patients with hematologic malignancies using a preparative regimen of high-dose cyclophosphamide and fractionated total body irradiation. Geller RB, et al. **Bone Marrow Transplant** 1997 Aug; 20(3):219–25

Cyclophosphamide/mitoxantrone/melphalan (CMA) regimen prior to autologous bone marrow transplantation (ABMT) in metastatic breast cancer. Gisselbrecht C, et al. **Bone Marrow Transplant** 1996 Nov;18(5):857–63

BONE MARROW TRANSPLANTATION

Allogeneic bone marrow transplantation in Fanconi anemia. Gluckman E. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:140–4 (30 ref.)

Allogeneic bone marrow transplantation in Fanconi anemia. Gluckman E. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S33–5 (30 ref.)

Autografting for CML—overview and perspectives. Goldman JM. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S71–4 (17 ref.)

Allogeneic bone marrow transplantation for children with acute leukemia: long-term follow-up of patients prepared with high-dose cytosine arabinoside and fractionated total body irradiation. Gordon BG, et al. **Bone Marrow Transplant** 1997 Jul;20(1):5–10

The European Group for Blood and Marrow Transplantation (EBMT): a report from the president and the chairmen of the working parties. Gratwohl A, et al. **Bone Marrow Transplant** 1996 Oct;18(4):677–91

Allogeneic bone marrow transplantation for chronic myeloid leukemia. Working Party Chronic Leukemia of the European Group for Blood and Marrow Transplantation (EBMT). Gratwohl A, et al. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S7–9

Successful donor leukocyte infusion for chronic myeloid leukemia relapsing in accelerated phase after T cell-replete unrelated marrow transplantation. Grigg A, et al. **Bone Marrow Transplant** 1996 Sep;18(3):647–8

Previous conventional chemotherapy is the principal risk factor for immunoglobulin deficiency during the early post-ABMT period in children. Grill J, et al. **Bone Marrow Transplant** 1996 Aug;18(2):325–32

What happens subsequently in AML when cytogenetic abnormalities persist at bone marrow harvest? Results of the 10th UK MRC AML trial. Medical Research Council Leukaemia Working Parties. Grimwade D, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1117–23

The treatment of relapsed or refractory intermediate grade non-Hodgkin's lymphoma with autologous bone marrow transplantation followed by cyclosporine and interferon. Gryn J, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):221–6

Donor leukocyte infusion for relapsed ANLL after allogeneic BMT and the use of interferon alpha to induce graft-versus-leukemia effect [letter] Gürman G, et al. **Bone Marrow Transplant** 1996 Oct;18(4):825–6

Campath-1G in vivo confers a low incidence of graft-versus-host disease associated with a high incidence of mixed chimaerism after bone marrow transplantation for severe aplastic anaemia using HLA-identical sibling donors. Hamblin M, et al. **Bone Marrow Transplant** 1996 May;17(5):819–24

Quality of life following bone marrow transplantation for breast cancer: a comparative study. Hann DM, et al. **Bone Marrow Transplant** 1997 Feb;19(3):257–64

Bone marrow transplantation therapy for metabolic disease: animal models as predictors of success and in utero approaches. Haskins M. **Bone Marrow Transplant** 1996 Dec; 18 Suppl 3:S25–7 (18 ref.)

Busulphan kinetics and limited sampling model in children with leukemia and inherited disorders. Hassan M, et al. **Bone Marrow Transplant** 1996 Nov;18(5):843–50

Successful bone marrow transplantation in a child with X-linked chronic granulomatous disease. Ho CM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):213–5 (17 ref.)

Successful allogeneic bone marrow transplantation in severe chronic mucocutaneous candidiasis syndrome. Hoh MC, et al. **Bone Marrow Transplant** 1996 Oct;18(4):797–800

Growth, growth hormone and final height after BMT. Possible recovery of irradiation-induced growth hormone insufficiency. Holm K, et al. **Bone Marrow Transplant** 1996 Jul;18(1):163–70

Allogeneic bone marrow transplantation for CML: a report from the International Bone Marrow Transplant Registry. Horowitz MM, et al. **Bone Marrow Transplant** 1996 May; 17 Suppl 3:S5–6

Successful treatment of primary extramedullary leukemia (EML) of the uterus with radical surgery, chemotherapy, autologous bone marrow transplantation (BMT) and prophylactic local irradiation. Huter O, et al. **Bone Marrow Transplant** 1996 Sep;18(3):663–4

Successful foscarnet therapy for mucocutaneous infection with herpes simplex virus in a recipient after unrelated bone marrow transplantation. Iino T, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1185–8

Bone marrow transplantation for Epstein-Barr virus-related clonal T cell proliferation associated with hemophagocytosis [letter] Imashuku S, et al. **Bone Marrow Transplant** 1997 May;19(10):1059–60

Predictive ability of creatinine clearance estimate models in pediatric bone marrow transplant patients. Jacobson P, et al. **Bone Marrow Transplant** 1997 Mar;19(5):481–5 (15 ref.)

Additional myeloablation with 52Fe before bone marrow transplantation. Jacquy C, et al. **Bone Marrow Transplant** 1997 Feb;19(3):191–6

Cardiopulmonary function and autologous bone marrow transplantation: results and predictive value for respiratory failure and mortality. The University of Nebraska Medical Center Bone Marrow Transplantation Pulmonary Study Group. Jain B, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):561–8

Invasive cutaneous mucormycosis caused by Absidia corymbifera after allogeneic bone marrow transplantation. Jantunen E, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):229–30

What is the most effective treatment of children with severe aplastic anemia who lack a matched sibling donor? Johnson FL. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S39–44 (66 ref.)

Early allogeneic transplantation favorably influences the outcome of adult patients suffering from acute myeloid leukemia. Société Française de Greffe de Moelle (SFGM). Jourdan E, et al. **Bone Marrow Transplant** 1997 May; 19(9):875–81

Improvement of thrombocytopenia following bone marrow transplantation by pegylated recombinant human megakaryocyte growth and development factor in mice. Kabaya K, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1035–41

A study of thiotepa, etoposide and fractionated total body irradiation as a preparative regimen prior to bone marrow transplantation for poor prognosis patients with neuroblastoma. Kamani N, et al. **Bone Marrow Transplant** 1996 Jun;17(6):911–6

Activated allogeneic cell therapy (allo-ACT) for relapsed chronic myelogenous leukemia (CML) refractory to buffy coat transfusions post-allogeneic bone marrow transplantation. Kapelushnik J, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1153–6

Allogeneic bone marrow and peripheral stem cell transplantation from a haplo-identical mother and CD34 positive selection for CML. Kato K, et al. **Bone Marrow Transplant** 1996 Aug;18(2):449–52

Results of single and double autografts for high-risk neuroblastoma patients. Kawa-Ha K, et al. **Bone Marrow Transplant** 1996 Jun;17(6):957–62

Effect of T cell subset dose on outcome of T cell-depleted bone marrow transplantation. Kawanishi Y, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1069–77

Prognostic factors of patients with acute myeloid leukemia (AML) allografted in first complete remission: an analysis of the EORTC-GIMEMA AML 8A trial. The European Organization for Research and Treatment of Cancer (EORTC) and the Gruppo Italiano Malattie Ematologiche Maligne dell' Adulto (GIMEMA) Leukemia Cooperative Groups. Keating S, et al. **Bone Marrow Transplant** 1996 Jun;17(6):993–1001

G-CSF stimulation of donor myelopoiesis prolongs survival of relapsed BCR-ABL-positive acute lymphoblastic leukemia after allogeneic marrow transplantation. Keil F, et al. **Bone Marrow Transplant** 1996 Sep;18(3):655–7

Durable remission of a relapsing primary central nervous system lymphoma after autologous bone marrow transplantation. Khalfallah S, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1021–3

Second allogeneic bone marrow transplantation for post-transplant leukemia relapse: results of a survey of 66 cases in 24 Japanese institutes. Kishi K, et al. **Bone Marrow Transplant** 1997 Mar;19(5):461–6

Bone marrow engraftment following unrelated donor transplantation utilizing busulfan and cyclophosphamide preparatory chemotherapy. Klein JL, et al. **Bone Marrow Transplant** 1996 Apr;17(4):479–83

Bone marrow 'boosts' following T cell-depleted haploidentical bone marrow transplantation. Kline RM, et al. **Bone Marrow Transplant** 1996 Apr;17(4):543–8

Do patients with metastatic and recurrent rhabdomyosarcoma benefit from high-dose therapy with hematopoietic rescue? Report of the German/Austrian Pediatric Bone Marrow Transplantation Group. Koscielniak E, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):227–31

Photochemical purging of autologous bone marrow grafts: assessment of damage to stem cells and the microenvironment in long-term marrow cultures. Kubo Y, et al. **Bone Marrow Transplant** 1997 Jul;20(1):27–31

Toxicity associated with high-dose cytosine arabinoside and total body irradiation as conditioning for allogeneic bone marrow transplantation. Kumar M, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1061–4

Allogeneic bone marrow transplantation for acute leukaemia—IGCI experience. International Group for Chemo-Immunotherapy. Labar B, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1009–12

BMT from unrelated (UD) or family donors other than HLA identical siblings (FDNS), GVHD prophylaxis, incidence and treatment. Ladenstein R, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:86–91

Flow cytometric cell sorting combined with molecular chimerism analysis to detect minimal recurrent leukemia: good news and bad news. Lamb LS Jr, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1157–61

Sequential analysis of early hematopoietic reconstitution following allogeneic bone marrow transplantation with fluorescence in situ hybridization (FISH). Lapointe C, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1143–8

Immunologic and clinical modifications following low-dose subcutaneous administration of rIL-2 in non-Hodgkin's lymphoma patients after autologous bone marrow transplantation. Lauria F, et al. **Bone Marrow Transplant** 1996 Jul;18(1):79–85

Blood cell and bone marrow transplants. Lazarus HM, et al. **Bone Marrow Transplant** 1996 Nov;18(5):839–41

Prevention and treatment of acute graft-versus-host disease: the old and the new. A report from the Eastern Cooperative Oncology Group (ECOG). Lazarus HM, et al. **Bone Marrow Transplant** 1997 Mar;19(6):577–600 (374 ref.)

Isolated testicular relapse in an adolescent 5 years following allogeneic bone marrow transplantation for acute myelogenous leukemia. Lehmann LE, et al. **Bone Marrow Transplant** 1997 Apr;19(8):849–51

Cutaneous mucormycosis due to Absidia corymbifera occurring after bone marrow transplantation. Leong KW, et al. **Bone Marrow Transplant** 1997 Mar;19(5):513–5

Loss of seroreactivity against human papillomavirus (HPV) in bone marrow transplant recipients. Lewensohn-Fuchs I, et al. **Bone Marrow Transplant** 1996 Aug;18(2):333–7

Spontaneous regression of relapsed non-Hodgkin's lymphoma in a patient who received an autologous transplant for primary resistant disease. Lewis ID, et al. **Bone Marrow Transplant** 1997 Aug;20(3):251–3

Autologous bone marrow transplantation for primary nasal T/NK cell lymphoma. Liang R, et al. **Bone Marrow Transplant** 1997 Jan;19(1):91–3

Elevated serum HLA class I levels coincide with acute and chronic graft-versus-host disease. Liem LM, et al. **Bone Marrow Transplant** 1997 Aug;20(3):227–34

Molecular analysis of transient cytogenetic relapse after allogeneic bone marrow transplantation for chronic myeloid leukaemia. Lin F, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1147–52

High-dose BCNU with ABMT followed by radiation therapy in the treatment of supratentorial glioblastoma multiforme. Linassier C, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S69–72

Rejection of the second allogeneic graft in a patient with severe aplastic anemia reversed by antilymphocyte globulin and donor lymphocyte infusions. Ljungman P, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1179–81

Hepatitis C virus genotypes and liver disease in patients undergoing allogeneic bone marrow transplantation. Locasciulli A, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):237–40

Role of allogeneic bone marrow transplantation for the treatment of myelodysplastic syndromes in childhood. The European Working Group on Childhood Myelodysplastic Syndrome (EWOG-MDS) and the Austria-Germany-Italy (AGI) Bone Marrow Transplantation Registry. Locatelli F, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:63–8 (21 ref.)

IL-2 effects on allogeneic and autologous transplant haemopoietic progenitors in long-term cultures. López-Jiménez J, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):899–905

Low-dose interleukin-2 therapy is not associated with cutaneous toxicity after autologous transplantation [letter; comment] López-Jiménez J, et al. **Bone Marrow Transplant** 1996 Aug;18(2):481–2. Comment on: Bone Marrow Transplant 1995 Jul;16(1):199–200.

Cyclosporine-induced retinal toxic blindness. López-Jiménez J, et al. **Bone Marrow Transplant** 1997 Aug;20(3):243–5

Subcutaneous versus intravenous low-dose IL-2 therapy after autologous transplantation: results of a prospective, non-randomized study. López-Jiménez J, et al. **Bone Marrow Transplant** 1997 Mar;19(5):429–34

The in vitro detection of anti-leukaemia-specific cytotoxicity after autologous bone marrow transplantation for acute leukaemia. Lowdell MW, et al. **Bone Marrow Transplant** 1997 May;19(9):891–7

Allogeneic bone marrow transplant for chronic myelogenous leukemia in a patient with multiple sclerosis. McAllister LD, et al. **Bone Marrow Transplant** 1997 Feb;19(4):395–7

Polymerase chain reaction is highly predictive of relapse in patients following T cell-depleted allogeneic bone marrow transplantation for chronic myeloid leukemia. Mackinnon S, et al. **Bone Marrow Transplant** 1996 Apr;17(4):643–7

Successful mobilisation of blood stem cells following previous autologous bone marrow transplantation [letter] McQuaker IG, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):263–4

Quality of life in breast cancer patients before and after autologous bone marrow transplantation. McQuellon RP, et al. **Bone Marrow Transplant** 1996 Sep;18(3):579–84

Clinical outcome in four children with metachromatic leukodystrophy treated by bone marrow transplantation. Malm G, et al. **Bone Marrow Transplant** 1996 Jun; 17(6):1003–8

Sexual dysfunction prior to high-dose chemotherapy and bone marrow transplantation. Marks DI, et al. **Bone Marrow Transplant** 1996 Apr;17(4):595–9

Intermediate-dose busulfan and cyclophosphamide as a conditioning regimen for bone marrow transplantation in a case of Fanconi anemia in myelodysplastic transformation. Maschan AA, et al. **Bone Marrow Transplant** 1997 Feb;19(4):385–7

Impact of myeloablative therapy with bone marrow transplantation in advanced neuroblastoma. Matthay KK. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S21–4

Outcome of allogeneic bone marrow transplantation with lymphocyte-depleted marrow grafts in adult patients with myelodysplastic syndromes. Mattijssen V, et al. **Bone Marrow Transplant** 1997 Apr;19(8):791–4

Long-term follow-up of patients undergoing allogeneic bone marrow transplantation for acute myeloid leukemia in first complete remission after cyclophosphamide-total body irradiation and cyclosporine. Mehta J, et al.

Bone Marrow Transplant 1996 Oct;18(4):741–6
Outcome of acute leukemia relapsing after bone marrow transplantation: utility of second transplants and adoptive immunotherapy. Mehta J, et al.
Bone Marrow Transplant 1997 Apr;19(7):709–19
T cell–depleted allogeneic bone marrow transplantation from a partially HLA–mismatched unrelated donor for progressive chronic lymphocytic leukemia and fludarabine–induced bone marrow failure. Mehta J, et al.
Bone Marrow Transplant 1996 May;17(5):881–3
Induction of graft–versus–host disease as immunotherapy of leukemia relapsing after allogeneic transplantation: single–center experience of 32 adult patients. Mehta J, et al. **Bone Marrow Transplant** 1997 Jul;20(2):129–35
Transfusion requirements after bone marrow transplantation from HLA–identical siblings: effects of donor–recipient ABO incompatibility. Mehta J, et al.
Bone Marrow Transplant 1996 Jul;18(1):151–6
Melphalan–total body irradiation and autologous bone marrow transplantation for adult acute leukemia beyond first remission. Mehta J, et al. **Bone Marrow Transplant** 1996 Jul;18(1):119–23
Factors affecting engraftment and hematopoietic recovery after unpurged autografting in acute leukemia. Mehta J, et al. **Bone Marrow Transplant** 1996 Aug;18(2):319–24
BAVC regimen and autograft for acute myelogenous leukemia in second complete remission. Meloni G, et al. **Bone Marrow Transplant** 1996 Oct;18(4):693–8
Interleukin–2 before and/or after autologous bone marrow transplantation for pediatric acute leukemia patients. Messina C, et al. **Bone Marrow Transplant** 1996 May; 17(5):729–35
Autologous bone marrow transplantation for extramedullary relapse in childhood leukemia. The AIEOP Group and the FONOP. Italian Association of Pediatric Hemato/Oncology. Messina C, et al.
Bone Marrow Transplant 1996 Nov;18 Suppl 2:40–2
Autologous bone marrow transplantation is feasible in patients with a prior history of invasive pulmonary aspergillosis. Michailov G, et al.
Bone Marrow Transplant 1996 Apr;17(4):569–72
Second bone marrow transplant for children who relapsed or rejected their first graft: experience of the Italian Pediatric Hematology and Oncology Group (AIEOP). Miniero R, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:135–8
Haemophilus influenzae type b (HIB)–conjugate immunization before bone marrow harvest in autologous bone marrow transplantation. Molrine DC, et al.
Bone Marrow Transplant 1996 Jun;17(6):1149–55
Successful allogeneic bone marrow transplantation for early relapse after autologous bone marrow transplantation in two cases of aggressive high–grade non–Hodgkin's lymphoma. Moreau P, et al. **Bone Marrow Transplant** 1996 Sep;18(3):665–7
Polychemotherapy combined with G–CSF–mobilized donor buffy coat transfusion for granulocytic sarcoma after allogeneic BMT for AML. Nachbaur D, et al.
Bone Marrow Transplant 1997 May;19(9):947–9
Bone marrow transplantation using unrelated and family related donors: the impact of HLA–C disparity. Nagler A, et al. **Bone Marrow Transplant** 1996 Nov;18(5):891–7 (48 ref.)
In vivo CAMPATH–1 followed by T cell–depleted bone marrow transplantation: a potential new mode of therapy for hepatitis–associated severe aplastic anemia (SAA). Nagler A, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):475–8
Interphase FISH analysis of sex–mismatched BMT utilizing dual color XY probes. Najfeld V, et al.
Bone Marrow Transplant 1997 Apr;19(8):829–34
Why is a Working Party Paediatric Diseases necessary within EBMT? The EBMT Paediatric Diseases Working Party. Niethammer D. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:1–3
Which children do benefit from bone marrow transplant? The EBMT Paediatric Diseases Working Party. Niethammer D, et al. **Bone Marrow Transplant** 1996 Nov; 18 Suppl 2:43–6 (11 ref.)
Successful treatment of steroid–resistant severe acute GVHD with 24–h continuous infusion of FK506. Ohashi Y, et al. **Bone Marrow Transplant** 1997 Mar;19(6):625–7
Eye movement disorders in bone marrow transplant patients on cyclosporin and ganciclovir. Openshaw H, et al.
Bone Marrow Transplant 1997 Mar;19(5):503–5
Allogeneic and autologous bone marrow transplantation in AML in first remission. The Spanish experience. Ortega JJ, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:53–8
Unrelated bone marrow transplantation as a rescue procedure following inadvertent loss of an autologous bone marrow graft. Oudshoorn M, et al. **Bone Marrow Transplant** 1996 Aug;18(2):461–3
The challenge of pooling national registries in pediatric bone marrow transplantation. Paolucci P, et al.
Bone Marrow Transplant 1996 Nov;18 Suppl 2:13–6
Relapsed acute lymphoblastic leukemia: similar outcomes for autologous and allogeneic marrow transplantation in selected children. Parsons SK, et al.
Bone Marrow Transplant 1996 May;17(5):763–8
Liposomal amphotericin (AmBisome) is safe in bone marrow transplantation for primary immunodeficiency. Pasic S, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1229–32
Influence of the specific T cell response on seroconversion after measles vaccination in autologous bone marrow transplant patients. Pauksen K, et al.
Bone Marrow Transplant 1996 Nov;18(5):969–73
Unrelated donor bone marrow transplantation for acute leukemia in patients with Down's syndrome. Pawlowska AB, et al. **Bone Marrow Transplant** 1996 Aug;18(2):453–5
Allogeneic bone marrow transplantation can restore CD4+ T–lymphocyte count and immune function in idiopathic CD4+ T–lymphocytopenia. Petersen EJ, et al.
Bone Marrow Transplant 1996 Oct;18(4):813–5
Immunological reconstitution after bone marrow transplantation. Porta F, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:148–50 (12 ref.)
Adoptive immunotherapy with donor mononuclear cell infusions to treat relapse of acute leukemia or myelodysplasia after allogeneic bone marrow transplantation. Porter DL, et al.
Bone Marrow Transplant 1996 Nov;18(5):975–80
Sequential molecular monitoring of chimerism in chronic myeloid leukemia patients receiving donor lymphocyte transfusion for relapse after bone marrow transplantation. Rapanotti MC, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):703–7
Autotransplantation for relapsed or refractory non–Hodgkin's lymphoma (NHL): long–term follow–up and analysis of prognostic factors. Rapoport AP, et al.
Bone Marrow Transplant 1997 May;19(9):883–90
Detection of a dormant 20q– leukemia clone in bone marrow cultures with hematopoietic growth factors: implications for secondary leukemia post–transplant. Redei I, et al.
Bone Marrow Transplant 1997 Mar;19(5):521–3
Excellent long–term survival after allogeneic marrow transplantation in patients with severe aplastic anemia. Reiter E, et al. **Bone Marrow Transplant** 1997 Jun; 19(12):1191–6
Should people with hepatitis C virus infection receive a bone marrow transplant? [editorial] Ribas A, et al.
Bone Marrow Transplant 1997 Jan;19(2):97–9
Measurement of reticulated platelets following peripheral blood progenitor cell and bone marrow transplantation: implications for marrow reconstitution and the use of thrombopoietin. Richards EM, et al.
Bone Marrow Transplant 1996 Jun;17(6):1029–33
Graft–versus–leukemia effect in allogeneic marrow transplant recipients with acute leukemia is maintained using cyclosporin A combined with methotrexate as prophylaxis. Acute Leukemia Working Party of the European Group for Blood and Marrow Transplantation. Ringdén O, et al.
Bone Marrow Transplant 1996 Nov;18(5):921–9
Donor search or autografting in patients with acute leukaemia who lack an HLA–identical sibling? A matched–pair analysis. Acute Leukaemia Working Party of the European Cooperative Group for Blood and Marrow Transplantation (EBMT) and the International Marrow Unrelated Search and Transplant (IMUST) Study. Ringdén O, et al.
Bone Marrow Transplant 1997 May;19(10):963–8
Absence of detectable PML–RAR alpha fusion transcripts in long–term remission patients after BMT for acute promyelocytic leukemia. Román J, et al.
Bone Marrow Transplant 1997 Apr;19(7):679–83
Mycobacterial infections following bone marrow transplantation: a 20 year retrospective review. Roy V, et al. **Bone Marrow Transplant** 1997 Mar;19(5):467–70
Some semantic considerations on bone marrow transplantation [letter] Rozman C.
Bone Marrow Transplant 1996 Sep;18(3):674
Bone marrow transplantation for the treatment of haematological disorders in Down's syndrome: toxicity and outcome. Rubin CM, et al. **Bone Marrow Transplant** 1996 Sep;18(3):533–40
Ocular toxicity following high dose chemotherapy and autologous transplant. Rubin P, et al.
Bone Marrow Transplant 1996 Jul;18(1):253–6
Allogeneic blood cell transplants for haematological malignancy: preliminary comparison of outcomes with bone marrow transplantation. Russell JA, et al.
Bone Marrow Transplant 1996 May;17(5):703–8
Treatment of relapse after allogeneic BMT with donor leukocyte infusions in 16 patients. Russell LA, et al.
Bone Marrow Transplant 1996 Aug;18(2):411–4
Allogeneic bone marrow transplantation for hypereosinophilic syndrome with advanced myelofibrosis. Sadoun A, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):741–3
Laboratory markers of veno–occlusive disease in the course of bone marrow and subsequent liver transplantation. Salat C, et al. **Bone Marrow Transplant** 1997 Mar;19(5):487–90
Feasibility and toxicity of interferon maintenance therapy after allogeneic BMT for multiple myeloma: a pilot study of the EBMT. Samson D, et al.
Bone Marrow Transplant 1996 May;17(5):759–62
Registered bone marrow donors' views on bodily donations. Sanner MA. **Bone Marrow Transplant** 1997 Jan;19(1):67–76
Massive pleural effusion attributed to high–dose cyclophosphamide during conditioning for BMT. Schaap N, et al. **Bone Marrow Transplant** 1996 Jul;18(1):247–8
Allogeneic BMT vs. chemotherapy in late bone marrow relapsed childhood non–T/non–B ALL: results of BFM ALL relapse studies. BFM Relapse Study Group. Schmid H, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:28–30
Allogeneic and autologous transplantation for haematological diseases, solid tumours and immune disorders. Current practice in Europe in 1996 and proposals for an operational classification. Accreditation Sub–Committee of the European Group for Blood and Marrow Transplantation (EBMT). Schmitz N, et al. **Bone Marrow Transplant** 1996 Apr;17(4):471–7 (52 ref.)
Usefulness of detection of minimal residual disease by 'hypermetaphase' fluorescent in situ hybridization after allogeneic BMT for chronic myelogenous leukemia. Seong D, et al. **Bone Marrow Transplant** 1997 Mar;19(6):565–70
A more immunosuppressive pre–transplant conditioning may be required for Chinese patients with thalassaemia. Shing MM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):907–10
Hepatitis C virus (HCV) infection in bone marrow transplant patients after transfusions from anti–HCV–positive blood donors. Shuhart MC, et al. **Bone Marrow Transplant** 1996 Apr;17(4):601–6
Central nervous system relapse after bone marrow transplantation for acute leukemia in first remission. Singhal S, et al. **Bone Marrow Transplant** 1996 Apr;17(4):637–41
Sensitivity of secondary acute myeloid leukemia relapsing after allogeneic bone marrow transplantation to immunotherapy with interferon–alpha 2b. Singhal S, et al.
Bone Marrow Transplant 1997 Jun;19(11):1151–3
Melphalan alone prior to allogeneic bone marrow transplantation from HLA–identical sibling donors for hematologic malignancies: alloengraftment with potential preservation of fertility in women. Singhal S, et al.
Bone Marrow Transplant 1996 Dec;18(6):1049–55
Activation of coagulation and deep vein thrombosis after bone marrow harvesting and insertion of a Hickman–catheter in ABMT patients with malignant lymphoma. Sletnes KE, et al. **Bone Marrow Transplant** 1996 Apr;17(4):577–81
Allogeneic bone marrow transplantation from a donor with severe active rheumatoid arthritis not resulting in adoptive transfer of disease to recipient. Snowden JA, et al.
Bone Marrow Transplant 1997 Jul;20(1):71–3
Prolonged remission of longstanding systemic lupus erythematosus after autologous bone marrow transplant for non–Hodgkin's lymphoma. Snowden JA, et al.
Bone Marrow Transplant 1997 Jun;19(12):1247–50
What is the better strategy in unrelated bone marrow donor search? Souillet G, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:75–9 (8 ref.)
Ribavirin therapy in bone marrow transplant recipients with viral respiratory tract infections. Sparrelid E, et al.
Bone Marrow Transplant 1997 May;19(9):905–8
Haploidentical family member transplants for patients with chronic myeloid leukaemia: a report of the Chronic Leukaemia Working Party of off European Group for Blood and Marrow Transplantation (EBMT). Speiser DE, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1197–203
Allogeneic bone marrow transplantation for Alexander's disease. Staba MJ, et al. **Bone Marrow Transplant** 1997 Aug; 20(3):247–9
Hepatic dysfunction following busulfan and cyclophosphamide myeloablation: a retrospective, multicenter analysis. Styler MJ, et al.
Bone Marrow Transplant 1996 Jul;18(1):171–6
Rapid immunologic reconstitution following transplantation with mobilized peripheral blood stem cells as compared to bone marrow. Talmadge JE, et al.
Bone Marrow Transplant 1997 Jan;19(2):161–72
Skeletal muscle protein reserve after bone marrow transplantation in children. Taskinen M, et al.
Bone Marrow Transplant 1996 Nov;18(5):937–41
Unusual split chimaerism after mismatched T–depleted BMT. Terenzi A, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):465–7
Detection of occasional and clonal chromosome aberrations in patients with acute non–lymphocytic leukemia after autologous bone marrow transplantation. Testoni N, et al.
Bone Marrow Transplant 1996 Dec;18(6):1141–5
Autologous or allogeneic bone marrow transplantation for acute myeloblastic leukemia in second complete remission. Importance of duration of first complete remission in final outcome. Tomás F, et al. **Bone Marrow Transplant** 1996 Jun;17(6):979–84
Unrelated donor bone marrow transplantation without T cell depletion using a chemotherapy only condition regimen. Low incidence of failed engraftment and severe acute GVHD. Topolsky D, et al. **Bone Marrow Transplant** 1996 Apr;17(4):549–54
Invasive fungal infections in lymphoma patients receiving immunotherapy following autologous bone marrow transplantation (ABMT). Toren A, et al.
Bone Marrow Transplant 1997 Jul;20(1):67–9
Oral tuberculosis following autologous bone marrow transplantation for Hodgkin's disease with interleukin–2 and alpha–interferon immunotherapy. Toren A, et al.
Bone Marrow Transplant 1996 Jul;18(1):209–10
Tacrolimus (FK506) in allogeneic bone marrow transplantation for severe aplastic anemia following orthotopic liver transplantation. Trede NS, et al.
Bone Marrow Transplant 1997 Aug;20(3):257–60
What is the merit of an alternative bone marrow transplant? Trigg ME. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S28–32 (32 ref.)
CY/TBI–800 as a pretransplant regimen for allogeneic bone

marrow transplantation for severe aplastic anemia using HLA-haploidentical family donors. Tzeng CH, et al. **Bone Marrow Transplant** 1996 Aug;18(2):273–7

Tacrolimus and methotrexate for the prophylaxis of acute graft–versus–host disease in allogeneic bone marrow transplantation in patients with hematologic malignancies. Uberti JP, et al. **Bone Marrow Transplant** 1997 Jun; 19(12):1233–8

Treatment of childhood acute lymphoblastic leukemia in first remission with allogeneic bone marrow transplantation or with intensive chemotherapy: a cooperative Italian study. The AIEOP (Associazione Italiana Ematologia ed Oncologia Pediatrica) and GITMO (Gruppo Italiano Trapianto di Midollo Osseo), Italy. Uderzo C, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:25–7

Phase I study of high-dose continuous intravenous infusion of VP-16 in combination with high-dose melphalan followed by autologous bone marrow transplantation in children with stage IV neuroblastoma. Valteau-Couanet D, et al. **Bone Marrow Transplant** 1996 Apr;17(4):485–9

A single [3H]thymidine-based limiting dilution analysis to determine HTLp and CTLp frequencies for bone marrow donor selection. van der Meer A, et al. **Bone Marrow Transplant** 1997 Jul;20(2):149–55

Effective treatment of relapsing experimental autoimmune encephalomyelitis with pseudoautologous bone marrow transplantation. van Gelder M, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1029–34

Combination therapy with G-CSF and erythropoietin after autologous bone marrow transplantation for lymphoid malignancies: a randomized trial. Vannucchi AM, et al. **Bone Marrow Transplant** 1996 Apr;17(4):527–31

A pilot study of busulfan and melphalan as preparatory regimen prior to allogeneic bone marrow transplantation in refractory or relapsed hematological malignancies. Vey N, et al. **Bone Marrow Transplant** 1996 Sep;18(3):495–9

Autologous bone marrow transplantation in children with acute myeloblastic leukemia: report from the Italian National Pediatric Registry (AIEOP–BMT). Vignetti M, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:59–62

Kaposi's sarcoma after autologous bone marrow transplantation for multiple myeloma. Vivancos P, et al. **Bone Marrow Transplant** 1996 Apr;17(4):669–71

Use of continuous infusion granulocyte–macrophage colony-stimulating factor alone or followed by granulocyte colony-stimulating factor to enhance engraftment following high-dose chemotherapy and autologous bone marrow transplantation for lymphoid malignancies. Vose JM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):951–6

Durable molecular remission in a patient with chronic myelogenous leukemia and host-derived hematopoiesis after allogeneic bone marrow transplantation. Wakui M, et al. **Bone Marrow Transplant** 1996 Oct;18(4):801–4

The role of cytokines following bone marrow transplantation: indications and controversies. Weinthal JA. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S10–4 (30 ref.)

Application of an HLA-B PCR–SSOP typing method to a bone marrow donor registry. Williams F, et al. **Bone Marrow Transplant** 1997 Feb;19(3):205–8

Successful prevention of hematological relapse for a patient with Philadelphia chromosome–positive acute lymphoblastic leukemia after allogeneic bone marrow transplantation by donor leukocyte infusion. Yazaki M, et al. **Bone Marrow Transplant** 1997 Feb;19(4):393–4

Glucocorticoids fail to enhance the effect of FK506 and methotrexate in prevention of graft–versus–host disease after DLA–nonidentical, unrelated marrow transplantation. Yu C, et al. **Bone Marrow Transplant** 1997 Jul;20(2):137–41

Prognostic factors affecting leukemia relapse after allogeneic BMT conditioned with cyclophosphamide and fractionated TBI. Zapatero A, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):591–6

Quality of life in patients with acute myelogenous leukemia in prolonged first complete remission after bone marrow transplantation (allogeneic or autologous) or chemotherapy: a cross–sectional study of the EORTC–GIMEMA AML 8A trial. Zittoun R, et al. **Bone Marrow Transplant** 1997 Aug;20(4):307–15

Development of psoriasis after syngeneic bone marrow transplant from psoriatic donor: further evidence for adoptive autoimmunity. Snowden JA, et al. **Br J Dermatol** 1997 Jul;137(1):130–2

Absence of human herpesvirus–8 DNA in angiosarcomas and other skin tumours in immunocompetent patients, and in graft–versus–host disease in the immunosuppressed recipients of bone marrow transplants [letter] Takata M, et al. **Br J Dermatol** 1997 Jul;137(1):156–7

Donor lymphocyte infusion for childhood acute lymphoblastic leukaemia relapsing after bone marrow transplantation. Atra A, et al. **Br J Haematol** 1997 Apr; 97(1):165–8

Immunophenotypic and ultrastructural study in peripheral blood neutrophil granulocytes following bone marrow transplantation. Masat T, et al. **Br J Haematol** 1997 Aug; 98(2):299–307

Myelodysplastic syndrome in childhood [letter; comment] Reman O, et al. **Br J Haematol** 1996 Oct;95(1):212–3. Comment on: Br J Haematol 1996 Feb;92(2):344–50.

MRI in the evaluation of late bone marrow changes following bone marrow transplantation. Tanner SF, et al. **Br J Radiol** 1996 Dec;69(828):1145–51

Blood and marrow stem cell transplants in autoimmune disease. A consensus report written on behalf of the European League Against Rheumatism (EULAR) and the European Group for Blood and Marrow Transplantation (EBMT). Tyndall A, et al. **Br J Rheumatol** 1997 Mar; 36(3):390–2 (16 ref.)

Bone marrow transplantation in the treatment of autoimmune diseases [editorial] Tyndall A, et al. **Br J Rheumatol** 1997 Jan;36(1):1–3

Phase II study of intensive chemotherapy with autologous bone marrow transplantation in patients in complete remission of disseminated breast cancer. de Vries EG, et al. **Breast Cancer Res Treat** 1996;39(3):307–13

Reduction of bone mass in women after bone marrow transplantation. Castañeda S, et al. **Calcif Tissue Int** 1997 Apr;60(4):343–7

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:33–9 (31 ref.)

Tandem high dose chemotherapy with autologous bone marrow transplantation for initial relapse of testicular germ cell cancer. Broun ER, et al. **Cancer** 1997 Apr 15; 79(8):1605–10

Endocrine function and bone metabolism 5 years after autologous bone marrow/blood-derived progenitor cell transplantation. Keilholz U, et al. **Cancer** 1997 Apr 15; 79(8):1617–22

High-dose carmustine for high-grade gliomas in childhood. Bouffet E, et al. **Cancer Chemother Pharmacol** 1997; 39(4):376–9

Qualitative assessment of mixed chimerism after allogeneic bone marrow transplantation with regard to leukemic relapse. Kögler G, et al. **Cancer Detect Prev** 1996; 20(6):601–9

Value of autologous bone marrow transplantation (ABMT) in 42 patients with follicular lymphomas responsive to conventional chemotherapy: a "France Autogreffe" study. Linassier C, et al. **Cancer Detect Prev** 1996;20(1):11–9

Acquired monosomy 7 in donor cells in a patient treated for acute lymphoblastic leukemia with bone marrow transplantation. Shekhter-Levin S, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):190–7

Monocyte activation by an oral immunomodulator (bestatin) in lymphoma patients following autologous bone marrow transplantation. Ino K, et al. **Cancer Immunol Immunother** 1996 Dec;43(4):206–12

The role of high-dose chemotherapy with hematopoietic stem cell support in the treatment of patients with epithelial ovarian carcinoma. Hussein AM. **Cancer Invest** 1997; 15(3):288–95 (50 ref.)

Bone marrow transplantation in multiple myeloma. Schlossman RL, et al. **Cancer Invest** 1997;15(1):65–75 (69 ref.)

The role of host lymphoid populations in the response of mouse EMT6 tumor to photodynamic therapy. Korbelik M, et al. **Cancer Res** 1996 Dec 15;56(24):5647–52

Treatment of relapse after allogeneic bone marrow transplantation. Giralt SA, et al. **Cancer Treat Res** 1996; 84:279–90 (70 ref.)

The detection of minimal residual disease: implications for bone marrow transplantation. Gribben JG, et al. **Cancer Treat Res** 1997;77:99–120 (96 ref.)

Autologous bone marrow transplantation in pediatric solid tumors. Kletzel M, et al. **Cancer Treat Res** 1997;77:333–56 (82 ref.)

Recombinant cytokines and hematopoietic growth factors in allogeneic and autologous bone marrow transplantation. Lazarus HM. **Cancer Treat Res** 1997;77:255–301 (379 ref.)

Bone marrow transplantation in thalassemia. Lucarelli G, et al. **Cancer Treat Res** 1997;77:305–15 (27 ref.)

Autologous bone marrow transplantation for leukemia and lymphoma. van Besien K, et al. **Cancer Treat Res** 1996; 84:207–59 (228 ref.)

Post-bone marrow transplant use of immunotherapy. Verma UN, et al. **Cancer Treat Res** 1997;77:27–55 (158 ref.)

Umbilical cord blood: an alternative to the transplantation of bone marrow stem cells. Weber-Nordt RM, et al. **Cancer Treat Rev** 1996 Sep;22(5):381–91 (75 ref.)

Pulmonary embolism with bone fragments following vertebral body marrow infusion for tolerance induction. Fernandez LA, et al. **Cell Transplant** 1996 Jul–Aug; 5(4):513–6

Use of allogeneic bone marrow labeled with neomycin resistance gene to examine bone marrow-derived chimerism in experimental organ transplantation. Smith JP, et al. **Cell Transplant** 1997 Jul–Aug;6(4):369–76

Fatal pneumothorax complicating BAL in a bone marrow transplant recipient with bronchiolitis obliterans [letter] Cazzadori A, et al. **Chest** 1997 May;111(5):1468–9

Bronchoscopic evaluation of pulmonary infiltrates following bone marrow transplantation. Dunagan DP, et al. **Chest** 1997 Jan;111(1):135–41

Recombinant human granulocyte colony-stimulating factor after allogeneic bone marrow transplantation. Huang X, et al. **Chin Med J (Engl)** 1996 Nov;109(11):827–31

Bone marrow transplantation with HLA partially matched related donors. Chen PM, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec; 58(6):385–91

Allogeneic bone marrow transplantation for Gaucher disease—a case report. Yen CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jun;59(6):372–6

Analysis of rearranged immunoglobulin heavy chain variable region genes obtained from a bone marrow transplant (BMT) recipient. Glas AM, et al. **Clin Exp Immunol** 1997 Feb;107(2):372–80

Foscarnet therapy for acyclovir–resistant herpes simplex virus 1 infection in allogeneic bone marrow transplant recipients. Naik HR, et al. **Clin Infect Dis** 1995 Dec; 21(6):1514–5

t(9;13)(q34;q12) chromosomal translocation persisting 4 years post autologous bone marrow transplantation for secondary AML despite morphological remission. Mahendra P, et al. **Clin Lab Haematol** 1996 Jun;18(2):121–2

Abrupt cessation of immunosuppression in a patient with persistent acute lymphoblastic leukaemia following allogeneic transplantation. Rymes NL, et al. **Clin Lab Haematol** 1996 Mar;18(1):45–6

Use of DNA polymorphisms to monitor engraftment after allogeneic bone marrow transplantation. Rothberg PG, et al. **Clin Lab Med** 1997 Mar;17(1):109–18 (50 ref.)

Consensus statement on unrelated donor BMT, 29 & 30 October 1996. Its use in leukaemias and allied disorders. Consensus Panel. **Clin Oncol (R Coll Radiol)** 1997; 9(2):132–3 (0 ref.)

Report from the International Bone Marrow Transplant Registry and Autologous Blood and Marrow Transplant Registry – North America. Passweg JR, et al. **Clin Transpl** 1995;:117–27

Twenty years of bone marrow transplantation in Essen – 1995 update. Runde V, et al. **Clin Transpl** 1995;:311–4

Bone marrow transplantation: the City of Hope experience. Smith EP, et al. **Clin Transpl** 1995;:291–310 (137 ref.)

Transplantation. **Curr Opin Oncol** 1997 Mar;9(2):B41–7

High-dose chemotherapy for the treatment of breast and ovarian cancer [see comments] Cagnoni PJ, et al. **Curr Opin Oncol** 1997 Mar;9(2):122–5 (32 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

Bone marrow transplantation for low-grade B-cell malignancies [see comments] Gribben JG. **Curr Opin Oncol** 1997 Mar;9(2):117–21 (34 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

Transplantation [editorial; comment] Jones RJ. **Curr Opin Oncol** 1997 Mar;9(2):115–6. Comment on: Curr Opin Oncol 1997 Mar;9(2):117–21. Comment on: Curr Opin Oncol 1997 Mar;9(2):122–5. Comment on: Curr Opin Oncol 1997 Mar;9(2):126–30. Comment on: Curr Opin Oncol 1997 Mar;9(2):131–8.

Bone marrow transplantation for inherited diseases [see comments] O'Marcaigh AS, et al. **Curr Opin Oncol** 1997 Mar;9(2):126–30 (21 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

Nonlinear pharmacokinetics of cyclophosphamide and 4-hydroxycyclophosphamide/aldophosphamide in patients with metastatic breast cancer receiving high-dose chemotherapy followed by autologous bone marrow transplantation. Chen TL, et al. **Drug Metab Dispos** 1997 May;25(5):544–51

Characterization of glucuronidated phase II metabolites of the immunosuppressant cyclosporine in urine of transplant patients using time-of-flight secondary-ion mass spectrometry. Meyer K, et al. **Drug Metab Dispos** 1996 Oct;24(10):1151–4

Serum interleukin-12 levels in patients undergoing allogeneic or autologous bone marrow transplantation. Bonnotte B, et al. **Eur Cytokine Netw** 1996 Sep;7(3):389–94

Etoposide and thiotepa followed by ABMT (autologous bone marrow transplantation) in children and young adults with high-grade gliomas. Bouffet E, et al. **Eur J Cancer** 1997 Jan;33(1):91–5

The potential role of amifostine (Ethyol) in haematological malignancies. Gorin NC. **Eur J Cancer** 1996;32A Suppl 4:S31–9 (22 ref.)

Simultaneous xenotransplantation of human Graves' thyroid tissue and autologous bone marrow cells in severe combined immunodeficient mice: successful reconstitution of human Graves' hyperthyroidism. Yoshikawa N, et al. **Eur J Endocrinol** 1997 Feb;136(2):213–22

Retinoic acid syndrome (RAS) in an aplasic patient with secondary acute promyelocytic leukemia (APL) [letter] Castagna L, et al. **Eur J Haematol** 1996 Nov;57(5):392–3

The role of second bone marrow transplant using a different donor for relapsed leukemia or graft failure [letter] Lipton JH, et al. **Eur J Haematol** 1997 Feb;58(2):133–6 (27 ref.)

Outcome of a multicenter treatment program including autologous or allogeneic bone marrow transplantation for de novo acute myeloid leukemia. Wahlin A, et al. **Eur J Haematol** 1997 Apr;58(4):233–40

Aetiology of severe aplastic anaemia and outcome after allogeneic bone marrow transplantation or immunosuppression therapy. Working Party on Severe Aplastic Anaemia of the European Blood and Marrow Transplantation Group. Bacigalupo A. **Eur J Haematol Suppl** 1996;60:16–9

Rapid DNA crossmatch analysis of HLA class II genotypic polymorphisms by temperature gradient gel electrophoresis in unrelated bone marrow donor selection. Uhrberg M, et al. **Eur J Immunogenet** 1994 Oct;21(5):313–24

Bone marrow transplantation in chronic granulomatous disease. Calviño MC, et al. **Eur J Pediatr** 1996 Oct; 155(10):877–9

Undetected viral infection in diffuse alveolar damage associated with bone marrow transplantation [see comments] Barberà JA, et al. **Eur Respir J** 1996 Jun;

9(6):1195–200. Comment in: Eur Respir J 1996 Jun;9(6):1115–7.

Effects of short-term in vivo administration of G-CSF on bone marrow prior to harvesting. Dicke KA, et al. **Exp Hematol** 1997 Jan;25(1):34–8

Restriction endonuclease in situ digestion (REISD): a novel quantitative sex-independent method to analyze chimerism after bone marrow transplantation. Diez-Martín JL, et al. **Exp Hematol** 1996 Sep;24(11):1333–9

Thymic and extrathymic differentiation and expansion of T lymphocytes following bone marrow transplantation in irradiated recipients. Dulude G, et al. **Exp Hematol** 1997 Aug;25(9):992–1004

Stages in the development of radiation-induced thymic lymphomas in C57 BL/Ka mice: preleukemic cells become progressively resistant to the tumor preventing effects of a bone marrow graft. Humblet C, et al. **Exp Hematol** 1997 Feb;25(2):109–13

Lack of efficacy of thrombopoietin and granulocyte colony-stimulating factor after high dose total-body irradiation and autologous stem cell or bone marrow transplantation in rhesus monkeys. Neelis KJ, et al. **Exp Hematol** 1997 Sep;25(10):1094–103

Nontransferrin-bound iron in serum of patients receiving bone marrow transplants. Dürken M, et al. **Free Radic Biol Med** 1997;22(7):1159–63

ACOS presentations for publication in the Japanese Journal of Cancer and Chemotherapy. Masaoka T. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:178–81 (1 ref.)

Bleeding from gastric antral vascular ectasia in marrow transplant patients. Tobin RW, et al. **Gastrointest Endosc** 1996 Sep;44(3):223–9

Combination of high-dose chemotherapy, autologous bone marrow/peripheral blood stem cell transplantation, and thoracoscopic surgery in refractory nongestational choriocarcinoma of a 45XO/46XY female: a case report. Chou HH, et al. **Gynecol Oncol** 1997 Mar;64(3):521–5

Strategies for the treatment of recurrent acute lymphoblastic leukemia in adults. Bassan R, et al. **Haematologica** 1996 Jan-Feb;81(1):20–36 (172 ref.)

Combined treatment with amphotericin-B and granulocyte transfusion from G-CSF-stimulated donors in an aplastic patient with invasive aspergillosis undergoing bone marrow transplantation. Catalano L, et al. **Haematologica** 1997 Jan-Feb;82(1):71–2

Bone marrow transplantation for refractory Langerhans' cell histiocytosis. Conter V, et al. **Haematologica** 1996 Sep-Oct; 81(5):468–71

Pretransplant factor XII levels correlate with prognosis in patients undergoing autologous graft for hematological malignancies. Longo G, et al. **Haematologica** 1997 May-Jun;82(3):360–1

Early detection of bone marrow engraftment by amplification of hypervariable DNA regions. Martinelli G, et al. **Haematologica** 1997 Mar-Apr;82(2):156–60

Two consecutive courses of rh-G-CSF-mobilized peripheral blood stem cells for primary marrow alloengraftment failure: case report. Martino M, et al. **Haematologica** 1996 Sep-Oct;81(5):464–7

High doses of recombinant human erythropoietin fail to accelerate platelet reconstitution in allogeneic bone marrow transplantation. Results of a pilot study. Vannucchi AM, et al. **Haematologica** 1997 Jan-Feb;82(1):53–6

Transient complete remission of acute lymphoblastic leukemia in relapse after allogeneic bone marrow transplantation induced by donor leukocyte transfusions. D'Hondt L, et al. **Hematol Cell Ther** 1996 Aug;38(4):353–4

Treatment of acute myeloblastic leukemia in adults. The GOELAM experience. Harousseau JL, et al. **Hematol Cell Ther** 1996 Oct;38(5):381–91 (38 ref.)

Donor leukocyte infusions for relapsed leukemia after allogeneic BMT. Mackinnon S. **Hematol Cell Ther** 1996 Oct;38(5):461–2 (5 ref.)

Induction chemotherapy followed by allogeneic bone marrow transplantation or aggressive consolidation chemotherapy in childhood acute myeloblastic leukemia. A prospective study from the French Society of Pediatric Hematology and Immunology (SHIP). Michel G, et al. **Hematol Cell Ther** 1996 Apr;38(2):169–76

Successful bone marrow transplantation in sensitized aplastic anemia patients using total lymphoid irradiation for conditioning: long-term follow-up. Zapatero A, et al. **Hematol Oncol** 1996 Dec;14(4):165–72

Standard therapy versus autologous transplantation in multiple myeloma. Attal M, et al. **Hematol Oncol Clin North Am** 1997 Feb;11(1):133–46

Transjugular intrahepatic portosystemic shunt for the management of severe venoocclusive disease following bone marrow transplantation. Fried MW, et al. **Hepatology** 1996 Sep;24(3):588–91

Clearance of hepatitis B surface antigen after bone marrow transplantation: role of adoptive immunity transfer. Lau GK, et al. **Hepatology** 1997 Jun;25(6):1497–501

Combined immunophenotyping and FISH with sex chromosome-specific DNA probes for the detection of chimerism in epidermal Langerhans cells after sex-mismatched bone marrow transplantation. Hessel H, et al. **Histochem Cell Biol** 1996 Nov;106(5):481–5

Advances in the treatment of plasma cell diseases. Comenzo RL. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):67–70, 73–4, 79–84 passim (11 ref.)

Retroviral gene transfer in autologous bone marrow transplantation for adult acute leukemia. Cornetta K, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1323–9

Use of donor T-lymphocytes expressing herpes-simplex thymidine kinase in allogeneic bone marrow transplantation: a phase I–II study. Tiberghien P, et al. **Hum Gene Ther** 1997 Mar 20;8(5):615–24

Post-transplant methotrexate administration leads to improved curability of mice bearing a mammary tumor transplanted with marrow transduced with a mutant human dihydrofolate reductase cDNA. Zhao SC, et al. **Hum Gene Ther** 1997 May 20;8(8):903–9

Selection of transplant donors based on MHC microsatellite data [corrected and republished article originally printed in Hum Immunol 1996 Oct;50(2):151–4] Carrington M, et al. **Hum Immunol** 1996 Dec;51(2):106–9

Development of insulin-dependent diabetes mellitus in [(NOD + BALB/c) –> NOD] mixed allogeneic bone marrow chimeras. Takao F, et al. **Immunobiology** 1995 Nov;194(4–5):376–89

Factors influencing the outcome of bone marrow transplants using unrelated donors. Madrigal JA, et al. **Immunol Rev** 1997 Jun;157:153–66 (120 ref.)

Blood stem cell transplantation: current concepts. Kamble R, et al. **Indian J Med Res** 1997 Jan;105:1–8 (55 ref.)

Nosocomial respiratory syncytial virus infections: prevention and control in bone marrow transplant patients. Garcia R, et al. **Infect Control Hosp Epidemiol** 1997 Jun;18(6):412–6

No increase in cyclosporin neurotoxicity in transplant recipients treated with liposomal amphotericin B [letter] Ringdén O, et al. **Infection** 1996 May-Jun;24(3):269

Delivery after bone marrow transplantation with total lymphoid irradiation for severe aplastic anemia. Ashida T, et al. **Int J Hematol** 1996 Oct;64(3–4):279–81 (14 ref.)

Serum thrombopoietin level after allogeneic bone marrow transplantation: possible correlations with platelet recovery, acute graft-versus-host disease and hepatic veno-occlusive disease. Nagoya Bone Marrow Transplantation Group. Hamaguchi M, et al. **Int J Hematol** 1996 Oct;64(3–4):241–8

Autologous graft-versus-host disease. Karasuno T. **Int J Hematol** 1997 Feb;65(2):105–13 (62 ref.)

Pulmonary veno-occlusive disease accompanied by microangiopathic hemolytic anemia 1 year after a second bone marrow transplantation for acute lymphoblastic leukemia. Kuga T, et al. **Int J Hematol** 1996 Aug; 64(2):143–50

Unrelated donor marrow transplantation in Japan. Mori M. **Int J Hematol** 1996 Aug;64(2):85–6

Therapeutic trial of intensified conditioning regimen with high-dose cytosine arabinoside, cyclophosphamide and either total body irradiation or busulfan followed by allogeneic bone marrow transplantation for myelodysplastic syndrome in children. Nagatoshi Y, et al. **Int J Hematol** 1997 Apr;65(3):269–75

Haematological remission induced by donor leukocytes infusion in a case of Philadelphia positive acute lymphoblastic leukaemia relapsing after allogeneic bone marrow transplantation. Saw MH, et al. **Int J Hematol** 1997 Feb;65(2):173–8

Cyclosporine-related encephalopathy following allogeneic bone marrow transplantation. Teshima T, et al. **Int J Hematol** 1996 Feb;63(2):161–4

Molecular remission achieved by interferon therapy in a patient with cytogenetically relapsed chronic myelogenous leukemia after syngeneic bone marrow transplantation. Yano K, et al. **Int J Hematol** 1996 Oct;64(3–4):267–70

Implant placement and restoration following bone marrow transplantation for chronic leukemia: a case report. Curtis JW Jr. **Int J Oral Maxillofac Implants** 1996 Jan-Feb; 11(1):81–6

The use of bone-marrow-derived fibroblastoid cells and fresh bone marrow in the treatment of bone defects: an experimental study. Krzymanski G, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):55–60

Esthesioneuroblastoma in the pediatric age-group: the role of chemotherapy and autologous bone marrow transplantation. Nguyen QA, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):45–52

Low energy Helium-Neon laser in the prevention of oral mucositis in patients undergoing bone marrow transplant: results of a double blind randomized trial. Cowen D, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):697–703

Autologous bone marrow transplantation in acute myeloid leukemia: the University of Minnesota experience. Dusenbery KE, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):335–43

High-dose therapy and autologous bone marrow transplantation for relapsed/refractory Hodgkin's disease: the impact of involved field radiotherapy on patterns of failure and survival [see comments] Poen JC, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):3–12. Comment in: Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):253–5.

Late onset bone marrow transplant nephropathy. Oyama Y, et al. **Intern Med** 1996 Jun;35(6):489–93 (23 ref.)

Effect of ursodeoxycholic acid on hypertransaminasaemia and bile acid composition in patients undergoing bone marrow transplantation--a double-blind randomized control study. Clerici C, et al. **Ital J Gastroenterol** 1996 May;28(4):191–8

Burden and health outcomes of family caregivers of hospitalized bone marrow transplant patients. Foxall MJ, et al. **J Adv Nurs** 1996 Nov;24(5):915–23

Off-site dental evaluation program for prospective bone marrow transplant recipients. Woo SB, et al. **J Am Dent Assoc** 1997 Feb;128(2):189–93

Clinical pathway nutrition management for outpatient bone marrow transplantation. Dickson TC. **J Am Diet Assoc** 1997 Jan;97(1):61–3 (14 ref.)

Prophylaxis against CMV infection in transplant patients. Griffiths PD. **J Antimicrob Chemother** 1997 Mar; 39(3):299–301 (29 ref.)

The role of VP-16 in autologous bone marrow transplantation for acute myeloblastic leukemia. Parikh PM, et al. **J Assoc Physicians India** 1996 Apr;44(4):252–4

Role of growth factors in hastening hematopoietic recovery following HLA matched sibling allogeneic bone marrow transplantation [published erratum appears in J Assoc Physicians India 1995 Oct;43(10):711] Parikh PM, et al. **J Assoc Physicians India** 1995 Jun;43(6):404–5

Simple bone cysts treated by percutaneous autologous marrow grafting [letter; comment] Göktürk E, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):695. Comment on: J Bone Joint Surg Br 1996 Nov;78(6):934–7.

Simple bone cysts treated by percutaneous autologous marrow grafting. A preliminary report [see comments] Lokiec F, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):934–7 . Comment in: J Bone Joint Surg Br 1997 May;79(3):509–10. Comment in: J Bone Joint Surg Br 1997 Jul;79(4):695.

Simple bone cysts treated by percutaneous autologous marrow grafting [letter; comment] Lubicky JP. **J Bone Joint Surg Br** 1997 May;79(3):509–10. Comment on: J Bone Joint Surg Br 1996 Nov;78(6):934–7.

Randomized trial comparing netilmicin plus imipenem-cilastatin versus netilmicin plus ceftazidime as empiric therapy for febrile neutropenic bone marrow transplant recipients. Laszlo D, et al. **J Chemother** 1997 Apr;9(2):95–101

Autologous bone marrow harvesting in outpatients [see comments] Thorne AC, et al. **J Clin Anesth** 1996 Nov; 8(7):551–6. Comment in: J Clin Anesth 1997 Jun;9(4):345.

Fatal diffuse invasive gastrointestinal candidiasis masking as ileus after bone marrow transplantation. DiBaise JK, et al. **J Clin Gastroenterol** 1997 Apr;24(3):165–8

Bone marrow transplantation reproduces the tristetraprolin-deficiency syndrome in recombination activating gene-2 (-/-) mice. Evidence that monocyte/macrophage progenitors may be responsible for TNFalpha overproduction. Carballo E, et al. **J Clin Invest** 1997 Sep 1;100(5):986–95

Demonstration of an osteoblast defect in two cases of human malignant osteopetrosis. Correction of the phenotype after bone marrow transplant [see comments] Lajeunesse D, et al. **J Clin Invest** 1996 Oct 15;98(8):1835–42. Comment in: J Clin Invest 1996 Oct 15;98(8):1697–8.

Murine mucopolysaccharidosis type VII: long term therapeutic effects of enzyme replacement and enzyme replacement followed by bone marrow transplantation. Sands MS, et al. **J Clin Invest** 1997 Apr 1;99(7):1596–605

When bad gene transfer is good [editorial; comment] Wilson JM. **J Clin Invest** 1996 Dec 1;98(11):2435. Comment on: J Clin Invest 1996 Dec 1;98(11):2539–48.

Double dose-intensive chemotherapy with autologous stem-cell support for metastatic breast cancer: no improvement in progression-free survival by the sequence of high-dose melphalan followed by cyclophosphamide, thiotepa, and carboplatin. Ayash LJ, et al. **J Clin Oncol** 1996 Nov;14(11):2984–92

High-dose therapy with autologous hematopoietic rescue for follicular low-grade non-Hodgkin's lymphoma. Bierman PJ, et al. **J Clin Oncol** 1997 Feb;15(2):445–50

Unrelated donor bone marrow transplantation for children with acute leukemia. Davies SM, et al. **J Clin Oncol** 1997 Feb;15(2):557–65

Pilot study of high-dose thiotepa and etoposide with autologous bone marrow rescue in children and young adults with recurrent CNS tumors. The Children's Cancer Group. Finlay JL, et al. **J Clin Oncol** 1996 Sep; 14(9):2495–503

High-dose chemotherapy with autologous stem-cell rescue in patients with recurrent and high-risk pediatric brain tumors. Graham ML, et al. **J Clin Oncol** 1997 May; 15(5):1814–23

Benefit of autologous bone marrow transplantation over sequential chemotherapy in poor-risk aggressive non-Hodgkin's lymphoma: updated results of the prospective study LNH87-2. Groupe d'Etude des Lymphomes de l'Adulte. Haioun C, et al. **J Clin Oncol** 1997 Mar;15(3):1131–7

Influence of age on the outcome of 500 autologous bone marrow transplant procedures for hematologic malignancies. Kusnierz-Glaz CR, et al. **J Clin Oncol** 1997 Jan;15(1):18–25

Concomitant and sequential administration of recombinant human granulocyte colony-stimulating factor and recombinant human interleukin-3 to accelerate hematopoietic recovery after autologous bone marrow transplantation for malignant lymphoma. Lemoli RM, et al. **J Clin Oncol** 1996 Nov;14(11):3018–25

Allogeneic bone marrow transplantation for chronic myelomonocytic leukemia in childhood: a report from the European Working Group on Myelodysplastic Syndrome in Childhood. Locatelli F, et al. **J Clin Oncol** 1997 Feb; 15(2):566–73

Peripheral-blood stem-cell transplantation versus autologous bone marrow transplantation in Hodgkin's and non-Hodgkin's lymphomas: a new matched-pair analysis of the European Group for Blood and Marrow Transplantation Registry Data. Lymphoma Working Party of the European Group for Blood and Marrow Transplantation. Majolino I, et al. **J Clin Oncol** 1997 Feb; 15(2):509-17

Access to bone marrow transplantation for leukemia and lymphoma: the role of sociodemographic factors. Mitchell JM, et al. **J Clin Oncol** 1997 Jul;15(7):2644-51

High-dose carboplatin, etoposide, and cyclophosphamide with autologous bone marrow transplantation in first-line therapy for patients with poor-risk germ cell tumors. Motzer RJ, et al. **J Clin Oncol** 1997 Jul;15(7):2546-52

Similar breast cancer cell contamination of single-day peripheral-blood progenitor-cell collections obtained after priming with hematopoietic growth factor alone or after cyclophosphamide followed by growth factor. Passos-Coelho JL, et al. **J Clin Oncol** 1996 Sep; 14(9):2569-75

Hematopoietic recovery after allogeneic blood stem-cell transplantation compared with bone marrow transplantation in patients with hematologic malignancies. Pavletic ZS, et al. **J Clin Oncol** 1997 Apr;15(4):1608-16

In vivo purging of bone marrow in children with poor-risk neuroblastoma for marrow collection and autologous bone marrow transplantation. Saarinen UM, et al. **J Clin Oncol** 1996 Oct;14(10):2791-802

The role of autologous bone marrow transplantation in advanced neuroblastoma [editorial; comment] Shuster JJ. **J Clin Oncol** 1996 Sep;14(9):2413-4. Comment on: J Clin Oncol 1996 Sep;14(9):2417-26.

Randomized trial showing equivalent efficacy of filgrastim 5 micrograms/kg/d and 10 micrograms/kg/d following high-dose chemotherapy and autologous bone marrow transplantation in high-risk lymphomas. Stahel RA, et al. **J Clin Oncol** 1997 May;15(5):1730-5

Consolidation chemoradiotherapy and autologous bone marrow transplantation versus continued chemotherapy for metastatic neuroblastoma: a report of two concurrent Children's Cancer Group studies [see comments] Stram DO, et al. **J Clin Oncol** 1996 Sep;14(9):2417-26. Comment in: J Clin Oncol 1996 Sep;14(9):2413-4.

Results of allogeneic bone marrow transplants for leukemia using donors other than HLA-identical siblings. Szydlo R, et al. **J Clin Oncol** 1997 May;15(5):1767-77

Impact of preexisting CNS involvement on the outcome of bone marrow transplantation in adult hematologic malignancies. van Besien K, et al. **J Clin Oncol** 1996 Nov; 14(11):3036-42

Role of a second transplant in the management of poor-prognosis lymphomas: a report from the European Blood and Bone Marrow Registry. Vandenberghe E, et al. **J Clin Oncol** 1997 Apr;15(4):1595-600

Intensified and high-dose chemotherapy with granulocyte colony-stimulating factor and autologous stem-cell transplantation support as first-line therapy in high-risk diffuse large-cell lymphoma. Vitolo U, et al. **J Clin Oncol** 1997 Feb;15(2):491-8

Granulocyte-macrophage colony-stimulating factor/interleukin-3 fusion protein versus granulocyte-macrophage colony-stimulating factor after autologous bone marrow transplantation for non-Hodgkin's lymphoma: results of a randomized double-blind trial. Vose JM, et al. **J Clin Oncol** 1997 Apr; 15(4):1617-23

Purging of bone marrow in autologous bone marrow transplantation for non-Hodgkin's lymphoma: a case-matched comparison with unpurged cases by the European Blood and Marrow Transplant Lymphoma Registry. Williams CD, et al. **J Clin Oncol** 1996 Sep; 14(9):2454-64

Detection of CMV DNA in bone marrow transplant recipients: plasma versus leucocyte polymerase chain reaction. Woo PC, et al. **J Clin Pathol** 1997 Mar;50(3):231-5

Pharmacokinetics of mesna and dimesna after simultaneous intravenous bolus and infusion administration in patients undergoing bone marrow transplantation. el-Yazigi A, et al. **J Clin Pharmacol** 1997 Jul;37(7):618-24

Treatment of a large segmental bone defect with allograft and autogenous bone marrow graft. Jean JL, et al. **J Formos Med Assoc** 1997 Jul;96(7):553-7

Allogeneic bone marrow transplantation for Philadelphia chromosome-positive chronic myelogenous leukemia in childhood. Lin YT, et al. **J Formos Med Assoc** 1997 May; 96(5):320-4

Immunomagnetic bone marrow purging in children with acute lymphoblastic leukemia. Canals C, et al. **J Hematother** 1997 Jun;6(3):261-8

Distinct circulation patterns in peripheral blood of leukocyte subpopulations during the first 24 hours following autologous bone marrow transplantation. Hokland P, et al. **J Hematother** 1996 Dec;5(6):647-54

Micrometastases and transplantation. Sharp JG. **J Hematother** 1996 Oct;5(5):519-24 (27 ref.)

Effect of hypothermia on the merocyanine 540-mediated purging of hematopoietic cells. Yamazaki T, et al. **J Hematother** 1997 Feb;6(1):31-9

In situ detection of individual transplanted bone marrow cells using FISH on sections of paraffin-embedded whole murine femurs. Nilsson SK, et al. **J Histochem Cytochem** 1996 Sep;44(9):1069-74

Bacterial contamination of autologous bone marrow during processing [letter; comment] Farrington M, et al. **J Hosp Infect** 1996 Nov;34(3):230-3. Comment on: J Hosp Infect 1996 May;33(1):71-6.

Changing pattern of Candida species in a bone marrow transplant patient. Fotedar R, et al. **J Infect** 1996 May; 32(3):243-5

Cytomegalovirus monitoring by polymerase chain reaction of whole blood samples from patients undergoing autologous bone marrow or peripheral blood progenitor cell transplantation. Hebart H, et al. **J Infect Dis** 1997 Jun; 175(6):1490-3

Early reconstitution of immunity and decreased severity of herpes zoster in bone marrow transplant recipients immunized with inactivated varicella vaccine. Redman RL, et al. **J Infect Dis** 1997 Sep;176(3):578-85

Circulating cytomegalovirus (CMV)-infected endothelial cells in marrow transplant patients with CMV disease and CMV infection. Salzberger B, et al. **J Infect Dis** 1997 Sep; 176(3):778-81

Epidemiology of Aspergillus infections in a large cohort of patients undergoing bone marrow transplantation. Wald A, et al. **J Infect Dis** 1997 Jun;175(6):1459-66

Plasma chitotriosidase activity in Gaucher disease patients who have been treated either by bone marrow transplantation or by enzyme replacement therapy with alglucerase. Young E, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):595-602

Value of surveillance cultures in a bone marrow transplantation unit. Czirók E, et al. **J Med Microbiol** 1997 Sep;46(9):785-91

Innervation of the thymus in normal and bone marrow reconstituted severe combined immunodeficient (SCID) mice. Mitchell B, et al. **J Neuroimmunol** 1997 May; 75(1-2):19-27

Contribution of growth hormone deficiency to the growth failure that follows bone marrow transplantation. Brauner R, et al. **J Pediatr** 1997 May;130(5):785-92

Correction of purine nucleoside phosphorylase deficiency by transplantation of allogeneic bone marrow from a sibling. Broome CB, et al. **J Pediatr** 1996 Mar;128(3):373-6

Final height and hormonal function after bone marrow transplantation in children. Clement-De Boers A, et al. **J Pediatr** 1996 Oct;129(4):544-50

Umbilical cord blood stem cells: application for the treatment of patients with hemoglobinopathies [see comments] Kelly P, et al. **J Pediatr** 1997 May;130(5):695-703 (83 ref.). Comment in: J Pediatr 1997 May;130(5):689-91.

Bone marrow transplantation in Hunter syndrome. McKinnis EJ, et al. **J Pediatr** 1996 Jul;129(1):145-8

Growth in children after bone marrow transplantation for acute myelogenous leukemia as compared to acute lymphocytic leukemia. Alter CA, et al. **J Pediatr Endocrinol Metab** 1996 Jan-Feb;9(1):51-7

Allogeneic bone marrow transplant in pediatric patients with high-risk hematopoietic malignancies early in the course of their disease. Amylon MD, et al. **J Pediatr Hematol Oncol** 1997 Jan-Feb;19(1):54-61

Immunosuppressive therapy: a potential alternative to bone marrow transplantation as initial therapy for acquired severe aplastic anemia in childhood? Lawlor ER, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr;19(2):115-23

Hip dysplasia in Hurler's syndrome: orthopaedic management after bone marrow transplantation [see comments] Masterson EL, et al. **J Pediatr Orthop** 1996 Nov-Dec; 16(6):731-3. Comment in: J Pediatr Orthop 1996 Nov-Dec;16(6):701-3.

Cutaneous mucor infection treated with wide excision in two children who underwent marrow transplantation. Trigg ME, et al. **J Pediatr Surg** 1996 Jul;31(7):976-7

Methotrexate dose-escalation studies in transgenic mice and marrow transplant recipients expressing drug-resistant dihydrofolate reductase activity. May C, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1444-51

Cutaneous presentation of Fusarium solani infection in a bone marrow transplant recipient. Child FJ, et al. **J R Soc Med** 1996 Nov;89(11):647-8

Development of a protocol for allogeneic marrow transplantation for severe systemic sclerosis: paradigm for autoimmune disease. Nash RA, et al. **J Rheumatol Suppl** 1997 May;48:72-8 (51 ref.)

Pre-existing autoimmune disease in patients with long-term survival after allogeneic bone marrow transplantation. Nelson JL, et al. **J Rheumatol Suppl** 1997 May;48:23-9

The evolving role of blood and marrow transplantation for the treatment of autoimmune diseases. Sullivan KM, et al. **J Rheumatol Suppl** 1997 May;48:1-4 (59 ref.)

The use of autologous transplantation in the treatment of malignant disorders. Territo M. **J Rheumatol Suppl** 1997 May;48:36-40 (24 ref.)

Parental consent for bone marrow transplantation in the case of genetic disorders. Prows CA, et al. **J Soc Pediatr Nurs** 1997 Jan-Mar;2(1):9-18; quiz 19-20

A polymerase chain reaction to detect a spliced late transcript of human cytomegalovirus in the blood of bone marrow transplant recipients. Nelson PN, et al. **J Virol Methods** 1996 Feb;56(2):139-48

A national survey of immunization practices following allogeneic bone marrow transplantation. Henning KJ, et al. **JAMA** 1997 Apr 9;277(14):1148-51

Osteogenesis imperfecta. Rehabilitation and prospects for gene therapy [clinical conference] Marini JC, et al. **JAMA** 1997 Mar 5;277(9):746-50

Researchers struggle with trials of stem-cell transplants for breast cancer [news] Stephenson J. **JAMA** 1997 Jun 18; 277(23):1827-9

A double-blind randomized trial comparing outpatient parenteral nutrition with intravenous hydration: effect on resumption of oral intake after marrow transplantation. Charuhas PM, et al. **JPEN J Parenter Enteral Nutr** 1997 May-Jun;21(3):157-61

Osteochondroma after total body irradiation in bone marrow transplant recipients: report of two cases. Maeda G, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):480-3 (14 ref.)

Renal function in high dose chemotherapy and autologous hematopoietic cell support treatment for breast cancer. Merouani A, et al. **Kidney Int** 1996 Sep;50(3):1026-31

Cytomegalovirus induces interstitial lung disease in allogeneic bone marrow transplant recipient rats independent of acute graft-versus-host response. Stals FS, et al. **Lab Invest** 1996 Feb;74(2):343-52

Ethics of cloning [letter; comment] Allmers H. **Lancet** 1997 May 10;349(9062):1401. Comment on: Lancet 1997 Mar 8;349(9053):661.

Bone-marrow transplantation in aspartylglucosaminuria [letter] Autti T, et al. **Lancet** 1997 May 10;349(9062):1366-7

Programmed bone-marrow donor for a leukaemic sibling, 10 years on [letter] [see comments] Burgio GR, et al. **Lancet** 1997 May 17;349(9063):1482. Comment in: Lancet 1997 Jul 26;350(9073):297.

Outcomes of transplantation with matched-sibling and unrelated-donor bone marrow in children with leukaemia. Hongeng S, et al. **Lancet** 1997 Sep 13;350(9080):767-71

12-year follow-up of allogeneic bone-marrow transplant for Langerhans' cell histiocytosis [letter] Ringdén O, et al. **Lancet** 1997 Feb 15;349(9050):476

The use of a sequential high dose recombinant interleukin 2 regimen after autologous bone marrow transplantation does not improve the disease free survival of patients with acute leukemia transplanted in first complete remission. Blaise D, et al. **Leuk Lymphoma** 1997 May;25(5-6):469-78

Hematologic recovery and survival of lymphoma patients after autologous stem-cell transplantation: comparison of bone marrow and peripheral blood progenitor cells. Brice P, et al. **Leuk Lymphoma** 1996 Aug;22(5-6):449-56

High-dose etoposide, cyclophosphamide and total body irradiation with allogeneic bone marrow transplantation for resistant acute myeloid leukemia: a study by the North American Marrow Transplant Group. Brown RA, et al. **Leuk Lymphoma** 1996 Jul;22(3-4):271-7

Autologous bone marrow transplantation in 44 patients with aggressive non-Hodgkin's lymphoma at University "La Sapienza" of Rome. Capria S, et al. **Leuk Lymphoma** 1996 Sep;23(1-2):147-51

Idarubicin and intermediate dose ARA-C followed by consolidation chemotherapy or bone marrow transplantation in relapsed or refractory acute myeloid leukemia. De La Serna J, et al. **Leuk Lymphoma** 1997 Apr; 25(3-4):365-72

Lymphocyte infusion for delayed extramedullary relapse of acute leukemia following bone marrow transplantation. Fleming DR, et al. **Leuk Lymphoma** 1996 May; 21(5-6):525-8

Autologous transplantation with tumor-free graft: a model for multiple myeloma patients. Gazitt Y, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):203-12 (65 ref.)

Low levels of serum soluble c-kit relates to delayed engraftment after bone marrow transplantation. Hashino S, et al. **Leuk Lymphoma** 1997 Apr;25(3-4):327-31

A phase I study of interleukin-6 after autologous bone marrow transplantation for patients with poor prognosis Hodgkin's disease. Imrie KR, et al. **Leuk Lymphoma** 1997 May;25(5-6):555-63

Autologous transplantation with CD52 monoclonal antibody-purged marrow for acute lymphoblastic leukemia: long-term follow-up. Mehta J, et al. **Leuk Lymphoma** 1997 May;25(5-6):479-86

Comparison of interferon tolerance after autologous bone marrow or peripheral blood stem cell transplants for myeloma patients who have responded to induction therapy. Powles R, et al. **Leuk Lymphoma** 1996 May; 21(5-6):421-7

Analysis of chimerism following allogeneic bone marrow transplantation by fluorescent-in-situ hybridization. Rondón G, et al. **Leuk Lymphoma** 1997 May;25(5-6):463-7

Rapid disappearance of AML1/ETO fusion transcripts in patients with t(8;21) acute myeloid leukemia following bone marrow transplantation and chemotherapy. Sakata N, et al. **Leuk Lymphoma** 1997 Jun;26(1-2):141-52

Long-term safety of GM-CSF (molgramostim) administration after allogeneic bone marrow transplantation for hematologic malignancies: five-year follow-up of a double-blind randomized placebo-controlled study. Singhal S, et al. **Leuk Lymphoma** 1997 Jan;24(3-4):301-7

A single-center study of 11 patients with intraocular lymphoma treated with conventional chemotherapy followed by high-dose chemotherapy and autologous bone marrow transplantation in 5 cases. Soussain C, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):339-45

Myelodysplasia and acute myeloid leukemia occurring after autologous bone marrow transplantation for lymphoma. Traweek ST, et al. **Leuk Lymphoma** 1996 Feb;

20(5-6):365-72 (47 ref.)
A pilot study of autologous bone marrow transplantation followed by recombinant interleukin-2 in malignant lymphomas. Vey N, et al. **Leuk Lymphoma** 1996 Mar; 21(1-2):107-14
Cutaneous monoblastic leukemia as a first sign of relapse six years after autologous bone marrow transplantation for acute leukemia. Weide R, et al. **Leuk Lymphoma** 1996 Aug; 22(5-6):527-9
Comparison of haematological recovery kinetics after myeloablative therapy between sibling allogeneic bone marrow and peripheral blood progenitor cell transplantation in the same adult acute lymphoblastic leukaemia patient [letter] Stockschläder M, et al. **Leuk Res** 1996 Nov-Dec;20(11-12):993-6
Acute Leukemia Forum '96. Biology and therapy of ALL in adults: bone marrow transplantation and other approaches. Symposium proceedings. November 8, 1996, Tempe, Arizona, USA. **Leukemia** 1997 May;11 Suppl 4:S1-45
Adoptive immunotherapy for relapsed multiple myeloma after allogeneic bone marrow transplantation (BMT): evidence for a graft-versus-myeloma effect. Bertz H, et al. **Leukemia** 1997 Feb;11(2):281-3
Loss of the DEK-CAN fusion transcript in a child with t(6;9) acute myeloid leukemia following chemotherapy and allogeneic bone marrow transplantation. Boer J, et al. **Leukemia** 1997 Feb;11(2):299-300
Second allogeneic bone marrow transplantation in acute leukemia: a multicenter study from the Gruppo Italiano Trapianto Di Midollo Osseo (GITMO). Bosi A, et al. **Leukemia** 1997 Mar;11(3):420-4
Allogeneic bone marrow transplantation for acute leukemia in patients over the age of 40 years. Acute Leukemia Working Party of the European Group for Bone Marrow Transplantation (EBMT). Cahn JY, et al. **Leukemia** 1997 Mar;11(3):416-9
The role of allogeneic bone marrow transplantation in the treatment of high-risk acute lymphocytic leukemia in adults. Forman SJ. **Leukemia** 1997 May;11 Suppl 4:S18-9 (9 ref.)
Autologous bone marrow purging by in situ IL-2 activation of endogenous killer cells. Margolin KA, et al. **Leukemia** 1997 May;11(5):723-8
Allogeneic vs autologous stem cell transplantation vs chemotherapy in patients with acute myeloid leukemia in first remission: the BGMT 87 study. Reiffers J, et al. **Leukemia** 1996 Dec;10(12):1874-82
Bone marrow transplantation in first remission. Rowe JM. **Leukemia** 1997 May;11 Suppl 4:S12-4 (23 ref.)
ALL and beyond: implications for other hematologic malignancies. Thomas ED. **Leukemia** 1997 May;11 Suppl 4:S43-5 (7 ref.)
Bone marrow transplantation for acute lymphocytic leukemia (ALL). Weisdorf DJ. **Leukemia** 1997 May;11 Suppl 4:S20-2 (13 ref.)
Treatment of adult patients with relapsed or refractory acute lymphoblastic leukemia (ALL). Weiss MA. **Leukemia** 1997 May;11 Suppl 4:S28-30 (20 ref.)
Autologous marrow stem cell transplantation for severe systemic lupus erythematosus of long duration. Marmont AM, et al. **Lupus** 1997;6(6):545-8
Acquired immune deficiency syndrome caused by hyperimmunity. Chigira M. **Med Hypotheses** 1996 Jun; 46(6):489-98 (139 ref.)
Autologous bone marrow and peripheral blood stem cell transplantation in haematological malignancies: current status. Marcoullis G, et al. **Med Oncol** 1995 Dec; 12(4):209-18 (91 ref.)
Bone marrow transplantation versus chemotherapy for maintenance of second remission of childhood acute lymphoblastic leukemia: a study of the Children's Cancer Group (CCG-1884). Feig SA, et al. **Med Pediatr Oncol** 1997 Dec;29(6):534-40
High-dose systemic interleukin-2 therapy in stage IV neuroblastoma for one year after autologous bone marrow transplantation: pilot study. Pardo N, et al. **Med Pediatr Oncol** 1996 Dec;27(6):534-9
Renal function after conditioning therapy for bone marrow transplantation in childhood. Patzer L, et al. **Med Pediatr Oncol** 1997 Apr;28(4):274-83
Preparative regimens in acute leukemia [letter; comment] Shaw P. **Med Pediatr Oncol** 1997 Jan;28(1):77-8. Comment on: Med Pediatr Oncol 1995 Sep;25(3):179-84.
Safety and efficacy of liposomal amphotericin B in allogeneic bone marrow transplant recipients. Andström EE, et al. **Mycoses** 1996 May-Jun;39(5-6):185-93
Fluconazole in the prophylaxis of fungal infection after bone marrow transplantation. Ehninger G, et al. **Mycoses** 1996 Jul-Aug;39(7-8):259-63
Retrospective analysis of yeast colonization and infections in paediatric bone marrow transplant recipients. Hoppe JE, et al. **Mycoses** 1997 Jan-Feb;40(1-2):47-54
Non-value of Aspergillus antigen detection in bronchoalveolar lavage fluids of patients undergoing bone marrow transplantation. Rath PM, et al. **Mycoses** 1996 Sep-Oct;39(9-10):367-70
Treatment of X-linked severe combined immunodeficiency by in utero transplantation of paternal bone marrow [see comments] Flake AW, et al. **N Engl J Med** 1996 Dec 12; 335(24):1806-10. Comment in: N Engl J Med 1996 Dec 12;335(24):1839-40.
High-dose chemotherapy and autologous bone marrow transplantation compared with MACOP-B in aggressive B-cell lymphoma [see comments] Gianni AM, et al. **N Engl J Med** 1997 May 1;336(18):1290-7. Comment in: N Engl J Med 1997 Sep 4;337(10):711; discussion 711-2.
The therapeutic potential of fetal and neonatal hematopoietic stem cells [editorial; comment] Gluckman E. **N Engl J Med** 1996 Dec 12;335(24):1839-40. Comment on: N Engl J Med 1996 Dec 12;335(24):1806-10. Comment on: N Engl J Med 1996 Dec 12;335(24):1811-4.
High-dose chemotherapy in multiple myeloma [letter; comment] Oivanen TM, et al. **N Engl J Med** 1996 Dec 12;335(24):1844-5; discussion 1845. Comment on: N Engl J Med 1996 Jul 11;335(2):91-7.
Bone marrow transplantation for sickle cell disease [letter; comment] Rehman KL. **N Engl J Med** 1996 Dec 12; 335(24):1845-6. Comment on: N Engl J Med 1996 Aug 8;335(6):369-76.
Bone marrow transplantation in severe combined immunodeficiency from a sibling who had received a paternal bone marrow transplant [see comments] Stiehm ER, et al. **N Engl J Med** 1996 Dec 12;335(24):1811-4. Comment in: N Engl J Med 1996 Dec 12;335(24):1839-40.
Bone marrow transplantation in late infantile Batten disease and juvenile Batten disease. Lake BD, et al. **Neuropediatries** 1997 Feb;28(1):80-1
Needs and experiences of family caregivers during marrow transplantation. Stetz KM, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1422-7
Mobilized peripheral blood transplants may overtake ABMT within two years [news] **Oncology (Huntingt)** 1995 Jul; 9(7):597
New donor leukocyte approaches may improve outcomes in relapsed CML post-transplant [news] **Oncology (Huntingt)** 1996 Sep;10(9):1380
BMT for severe autoimmune diseases: an idea whose time has come. Burt RK. **Oncology (Huntingt)** 1997 Jul; 11(7):1001-14; 1017, discussion 1018-24 (88 ref.)
Caries-related salivary microorganisms and salivary flow rate in bone marrow recipients. Dens F, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):38-43
The role of a composite, demineralized bone matrix and bone marrow in the treatment of osseous defects. Tiedeman JJ, et al. **Orthopedics** 1995 Dec;18(12):1153-8
Impact of surgical treatment on paranasal fungal infections in bone marrow transplant patients. Kennedy CA, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):610-6
Differences among patients in opioid self-administration during bone marrow transplantation. Chapman CR, et al. **Pain** 1997 Jul;71(3):213-23
Usefulness of frequency analysis of cytotoxic T-lymphocytes precursors (CTL-p) for selection of HLA matched unrelated marrow donors. Busca A, et al. **Panminerva Med** 1995 Sep;37(3):168-70
Bone marrow transplantation for pediatric malignancies. Sanders JE. **Pediatr Clin North Am** 1997 Aug;44(4):1005-20 (68 ref.)
Febrile complications in the first 100 days after bone marrow transplantation in children: a single center's experience. Dell'Orto M, et al. **Pediatr Hematol Oncol** 1997 Jul-Aug; 14(4):335-47
Bone marrow transplantation in patients with Fanconi anemia: experience with cyclophosphamide and total body irradiation conditioning regimen. Solh H, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):67-72
Engraftment failure following bone marrow transplantation in children with thalassemia major using busulfan and cyclophosphamide conditioning. Solh H, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):73-7
A high-dose busulfan-thiotepa combination followed by autologous bone marrow transplantation in childhood recurrent ependymoma. A phase-II study. Grill J, et al. **Pediatr Neurosurg** 1996 Jul;25(1):7-12
Cytokine therapy after bone marrow transplantation. Dix SP, et al. **Pharmacotherapy** 1996 Jul-Aug;16(4):593-608 (68 ref.)
Prolonged ciprofloxacin administration does not accelerate neutrophil recovery after autologous bone marrow transplantation. Hsu J, et al. **Pharmacotherapy** 1996 Jul-Aug;16(4):652-5
The role of cell migration and microchimerism in the induction of tolerance after solid organ transplantation. Jindal RM, et al. **Postgrad Med J** 1997 Mar;73(857):146-50 (39 ref.)
Results of MDR-1 vector modification trial indicate that granulocyte/macrophage colony-forming unit cells do not contribute to posttransplant hematopoietic recovery following intensive systemic therapy [published erratum appears in Proc Natl Acad Sci U S A 1997 May 13;94(10):5495] Hanania EG, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15346-51
Thrombopoietic potential and serial repopulating ability of murine hematopoietic stem cells constitutively expressing interleukin 11. Hawley RG, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10297-302
Bone marrow donation among unrelated donors in Italy [letter] Bertarelli P, et al. **Psychosomatics** 1997 May-Jun; 38(3):299-300
Bone marrow transplantation vs. high-dose cytorabine-based consolidation chemotherapy for acute myelogenous leukemia. A long-term follow-up study of quality-of-life measures of survivors. Wellisch DK, et al. **Psychosomatics** 1996 Mar-Apr;37(2):144-54
Stem cell factor has contrasting effects in combination with 5-fluorouracil or total-body irradiation on frequencies of different hemopoietic cell subsets and engraftment of transplanted bone marrow. Down JD, et al. **Radiat Res** 1997 Jun;147(6):680-5
Hodgkin and non-Hodgkin lymphoma: local-regional radiation therapy after bone marrow transplantation. Abrams RA, et al. **Radiology** 1997 Jun;203(3):865-70
Bone marrow transplantation as a strategy for the treatment of autoimmune-linked renal diseases. Ikehara S. **Ren Fail** 1996 Jan;18(1):1-18 (44 ref.)
HSV-TK gene transfer into donor lymphocytes for control of allogeneic graft-versus-leukemia [see comments] Bonini C, et al. **Science** 1997 Jun 13;276(5319):1719-24. Comment in: Science 1997 Jun 13;276(5319):1646.
New lead to safer marrow transplants [news; comment] Wickelgren I. **Science** 1997 Jun 13;276(5319):1646. Comment on: Science 1997 Jun 13;276(5319):1719-24.
Intensive chemotherapy and bone marrow transplantation for myelodysplastic syndromes. Gassmann W, et al. **Semin Hematol** 1996 Jul;33(3):196-205 (65 ref.)
Intensive treatment strategies in multiple myeloma. Kovacsovics TJ, et al. **Semin Hematol** 1997 Jan;34(1 Suppl 1):49-60 (74 ref.)
Comparison between bone marrow and G-CSF-mobilized peripheral blood allografts undergoing clinical scale CD34+ cell selection. Hassan HT, et al. **Stem Cells** 1996 Jul;14(4):419-29
Autologous bone marrow transplantation for acute myeloid leukemia. Imrie K, et al. **Stem Cells** 1996 Jan;14(1):69-78 (80 ref.)
Peripheral blood progenitor cell transplantation: a replacement for marrow auto- or allografts. Körbling M, et al. **Stem Cells** 1996 Mar;14(2):185-95 (72 ref.)
An analysis of the effects of combined treatment with rmGM-CSF and PEG-rHuMGDF in murine bone marrow transplant recipients. Molineux G, et al. **Stem Cells** 1997; 15(1):43-9
Minimal residual disease post-bone marrow transplantation for hemato-oncological diseases. Toren A, et al. **Stem Cells** 1996 May;14(3):300-11 (80 ref.)
Oral dolasetron mesilate (MDL 73,147EF) for the control of emesis during fractionated total-body irradiation and high-dose cyclophosphamide in patients undergoing allogeneic bone marrow transplantation. Fauser AA, et al. **Support Care Cancer** 1997 May;5(3):219-22
Factors influencing haematological recovery after allogeneic bone marrow transplantation in leukaemia patients treated with methotrexate-containing GVHD prophylaxis. A single-centre experience. Hassan HT, et al. **Support Care Cancer** 1997 Jul;5(4):299-306
Donor-specific unmodified bone marrow transfusion does not facilitate intestinal engraftment after bowel transplantation in a porcine model. Pirenne J, et al. **Surgery** 1997 Jan;121(1):79-88
Pig to monkey bone marrow and kidney xenotransplantation. Sablinski T, et al. **Surgery** 1997 Apr;121(4):381-91
Respiratory conditions associated with haematological malignancies [see comments] Wickremasinghe M. **Thorax** 1997 Apr;52(4):390-1. Comment in: Thorax 1997 Apr;52(4):392-3. Comment in: Thorax 1997 Apr;52(4):394-5.
Increased diversity within the HLA-A*66 group: implications for matching in unrelated bone marrow transplantation. Binder T, et al. **Tissue Antigens** 1997 Jul; 50(1):77-82
Molecular characterization of HLA-C incompatibilities in HLA-ABDR-matched unrelated bone marrow donor-recipient pairs. Sequence of two new Cw alleles (Cw*02023 and Cw*0707) and recognition by cytotoxic T lymphocytes. Grundschober C, et al. **Tissue Antigens** 1997 Jun;49(6):612-23
Inclusive donor search. Hansen JA. **Tissue Antigens** 1995 Nov;46(5):427-8
Acquisition and use of DNA-based HLA typing data in bone marrow registries. Hurley CK. **Tissue Antigens** 1997 Apr; 49(4):323-8 (18 ref.)
Suggested lineage of the rare DRB1*1417 allele from DRB1*1301--general implications for matched unrelated bone marrow donor searching. Lester S, et al. **Tissue Antigens** 1995 Nov;46(5):426-7
Consensus Conference on unrelated donor BMT, 29-30 October 1996: its use in leukaemias and allied disorders. Franklin IM. **Transfus Med** 1997 Mar;7(1):63-4 (0 ref.)
Purging: the separation of normal from malignant cells for autologous transplantation. Champlin R. **Transfusion** 1996 Oct;36(10):910-8 (134 ref.)
Chronic anemia due to parvovirus B19 infection in a bone marrow transplant patient after platelet transfusion. Cohen BJ, et al. **Transfusion** 1997 Sep;37(9):947-52
Role of screening for hepatitis C virus in children with malignant disease and who undergo bone marrow transplantation. Tada K, et al. **Transfusion** 1997 Jun; 37(6):641-4
Late adjunctive therapy with single doses of rapamycin in skin-allografted mice treated with antilymphocyte serum and donor bone marrow cells. De Fazio SR, et al. **Transpl Immunol** 1996 Jun;4(2):105-12
Comparison of the content and subpopulations of CD3 and CD34 positive cells in bone marrow harvests and

G-CSF-mobilized peripheral blood leukapheresis products from healthy adult donors. Hassan HT, et al. **Transpl Immunol** 1996 Dec;4(4):319-23

Eradication of minimal residual disease during graft-versus-host reaction induced by abrupt discontinuation of immunosuppression following bone marrow transplantation in a patient with Ph1-ALL. Kanamori H, et al. **Transpl Int** 1997;10(4):328-30

Comparative analysis of immunological reconstitution induced by vascularized bone marrow versus bone marrow cell transplantation. Lukomska B, et al. **Transpl Int** 1996; 9 Suppl 1:S492-6

Donor bone marrow infusions in conjunction with liver-islet allotransplantation in patients with type 2 diabetes. Alejandro R, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):745

Microsatellites in the HLA region: potential applications in bone marrow transplantation. Foissac A, et al. **Transplant Proc** 1997 Aug;29(5):2374-5

Concomitant infusion of unmodified donor bone marrow into unconditioned recipients of intestinal allografts. Fontes P, et al. **Transplant Proc** 1996 Oct;28(5):2757-8

Experimental animal model of graft-versus-host disease (GVHD) after small-bowel transplantation: characteristics of the model and application to developing treatment strategies. Galvao FH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):700

Assessment of the effects of cadaveric donor bone marrow on chimerism in kidney transplant recipients by the polymerase chain reaction-flow technique. Garcia-Morales R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1219-21

Graft-vs-host tolerance in mixed allogeneic chimerism. Kawai T, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1222-3

Mixed chimerism and transplantation tolerance induced by a nonlethal preparative regimen in cynomolgus monkeys. Kimikawa M, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1218

Autologous bone marrow-derived stromal fibroblastoid cells grown in vitro for the treatment of defects of mandibular bones. Krzymański G, et al. **Transplant Proc** 1996 Dec; 28(6):3528-30

Serum interferon-gamma and C-reactive protein levels as predictors of acute graft-vs-host disease in allogeneic hematopoietic precursor cell (marrow or peripheral blood progenitor cells) recipients. Lange A, et al. **Transplant Proc** 1996 Dec;28(6):3522-5

Kinetic studies of microchimerism following small bowel transplantation combined with donor-type bone marrow in rats. Masaki Y, et al. **Transplant Proc** 1996 Oct; 28(5):2497-8

Induction of mixed hematopoietic chimerism and specific transplantation tolerance to allogeneic and xenogeneic grafts by selective elimination of donor-reactive host cells following nonmyeloablative conditioning. Prigozhina TB, et al. **Transplant Proc** 1997 Sep;29(6):2644-6

Perioperative donor bone marrow infusion in recipients of organ allografts. Rao AS, et al. **Transplant Proc** 1997 Jun; 29(4):2192-3

Augmentation of chimerism with perioperative donor bone marrow infusion in organ transplant recipients: a 44 month follow-up. Rao AS, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1184-5

Effect of timing of donor bone marrow infusions on liver allograft survival. Ricordi C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1186

Strong antileukemic effect of chronic graft-versus-host disease in allogeneic marrow transplant recipients having acute leukemia treated with methotrexate and cyclosporine. The Acute Leukemia Working Party of the European Group for Blood and Marrow Transplantation (EBMT). Ringdén O, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):733-4

Immune markers and hematopoiesis of cadaveric bone marrow for transplantation. Söderdahl G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):714-5

Future trends in the transplantation of hematopoietic cells. Wiktor-Jedrzejczak W. **Transplant Proc** 1996 Dec; 28(6):3423-5 (24 ref.)

Autologous bone marrow transplantation in adult acute lymphoblastic leukaemia. Wojnar J, et al. **Transplant Proc** 1996 Dec;28(6):3518-21

Importance of the relative resistance of cord blood CD34+ cells to UVB in bone marrow transplantation. Yaron I, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):739

Three years of follow-up of bone marrow-augmented organ transplant recipients: the impact on donor-specific immune modulation. Zeevi A, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1205-6

Isradipine for the prevention of cyclosporine-induced hypertension in allogeneic bone marrow transplant recipients: a randomized, double-blind study. Bursztyn M, et al. **Transplantation** 1997 Apr 15;63(7):1034-6

Graft-versus-host disease after bone marrow transplantation for thalassemia: an analysis of incidence and risk factors. Gaziev D, et al. **Transplantation** 1997 Mar 27;63(6):854-60

Recipient preconditioning and donor-specific bone marrow infusion in a pig model of total bowel transplantation. Gruessner RW, et al. **Transplantation** 1997 Jan 15; 63(1):12-20

IL-15 administration following syngeneic bone marrow transplantation prolongs survival of lymphoma bearing mice. Katsanis E, et al. **Transplantation** 1996 Sep 27; 62(6):872-5

Thymic dependence of loss of tolerance in mixed allogeneic bone marrow chimeras after depletion of donor antigen. Peripheral mechanisms do not contribute to maintenance of tolerance. Khan A, et al. **Transplantation** 1996 Aug 15; 62(3):380-7

Transplantation of polarized type 2 donor T cells reduces mortality caused by experimental graft-versus-host disease. Krenger W, et al. **Transplantation** 1996 Nov 15; 62(9):1278-85

High-dose donor bone marrow infusions to enhance allograft survival: the effect of timing. Ricordi C, et al. **Transplantation** 1997 Jan 15;63(1):7-11

Presence of intrinsic B lymphocyte tolerance in mixed but not in complete semiallogeneic bone marrow chimeras. Salam A, et al. **Transplantation** 1997 Mar 15;63(5):699-704

Serum levels of cytokines and secondary messages after T-cell-depleted and non-T-cell-depleted bone marrow transplantation: influence of conditioning and hematopoietic reconstitution. Schwaighofer H, et al. **Transplantation** 1996 Oct 15;62(7):947-53

Endogenous interleukin 1 receptor antagonist during human bone marrow transplantation: increased levels during graft-versus-host disease, during infectious complications, and after immunoglobulin therapy. Schwaighofer H, et al. **Transplantation** 1997 Jan 15;63(1):52-6

Bone marrow transplantation in newborn rats with mucopolysaccharidosis type VI: biochemical, pathological, and clinical findings. Simonaro CM, et al. **Transplantation** 1997 May 27;63(10):1386-93

Interstitial pneumonitis in bone marrow transplant recipients is associated with local production of TH2-type cytokines and lack of T cell-mediated cytotoxicity. Sparrelid E, et al. **Transplantation** 1997 Jun 27;63(12):1782-9

Prevention of transmission of hepatitis C virus in bone marrow transplantation by treating the donor with alpha-interferon. Vance EA, et al. **Transplantation** 1996 Nov 15;62(9):1358-60

Treatment of relapsing experimental autoimmune encephalomyelitis with largely MHC-matched allogeneic bone marrow transplantation. van Gelder M, et al. **Transplantation** 1996 Sep 27;62(6):810-8

Radiotherapy after high-dose chemotherapy followed by autologous bone marrow transplantation in patients with intermediate or high-grade non-Hodgkin's lymphoma. Barra S, et al. **Tumori** 1996 Jul-Aug;82(4):335-8

[Acceleration of hematopoietic reconsitution in mice transplanted with syngeneic bone marrow cells by IL-6 gene therapy] Cai R, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):97-101 (Eng. Abstr.) **(Chi)**

[Analysis of HLA class I molecules using isoelectric focusing. Its application in selection of bone marrow donors] Kořínková P, et al. **Cas Lek Cesk** 1997 May 7;136(9):279-81 (Eng. Abstr.) **(Cze)**

[Diagnosis of minimal residual disease in autologous bone marrow transplantation] Jørgensen H, et al. **Nord Med** 1996 Dec;111(10):344-7 (15 ref.) (Eng. Abstr.) **(Dan)**

[Value of in vitro study of osteoclast precursors in the case of severe infantile osteopetrosis treated by bone marrow graft] Gourdin A, et al. **Arch Pediatr** 1997 Apr;4(4):335-8 (Eng. Abstr.) **(Fre)**

[Malignant non-Hodgkin's lymphomas. What indications for bone marrow autotransplantation? (editorial)] Sebban C, et al. **Presse Med** 1997 May 24;26(17):810-3 (23 ref.) (Eng. Abstr.) **(Fre)**

[Thrombotic thrombocytopenic purpura in bone marrow graft rejection (clin conference)] Pasquasy V, et al. **Rev Med Liege** 1996 Nov;51(11):714-7 **(Fre)**

[Computer-assisted evaluation of a "medium resolution" HLA-DRB oligotyping of bone marrow donors] Helmberg W, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:66-71 (Eng. Abstr.) **(Ger)**

[Treatment of chronic myeloid leukemia in children and adolescents--concept of the multicenter pilot study CML-ped.] Suttorp M, et al. **Klin Padiatr** 1996 Jul-Aug; 208(4):242-9 (Eng. Abstr.) **(Ger)**

[Antifungal prophylaxis in neutropenic cancer patients and in allogeneic bone marrow transplantation] Blau IW, et al. **Mycoses** 1996;39 Suppl 1:81-6 (52 ref.) (Eng. Abstr.) **(Ger)**

[Clinical relevance of CT of paranasal sinuses prior to bone marrow transplantation] Oberholzer K, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):493-7 (Eng. Abstr.) **(Ger)**

[Results of critical care management of patients after bone marrow transplantation] Wagner A, et al. **Wien Klin Wochenschr** 1996;108(21):677-82 (Eng. Abstr.) **(Ger)**

[Diagnostic value of C-reactive protein levels in children with bone marrow transplantation] Pintér E, et al. **Orv Hetil** 1996 Jun 9;137(23):1259-62 (Eng. Abstr.) **(Hun)**

[The Hickman catheter as vascular access in bone marrow transplantation] Baiardi A, et al. **Minerva Cardioangiol** 1996 Oct;44(10):525-7 (Eng. Abstr.) **(Ita)**

[Efficacy of estrogen-progestin replacement therapy after bone marrow transplantation] Bellati U, et al. **Minerva Ginecol** 1996 Sep;48(9):351-4 (Eng. Abstr.) **(Ita)**

[Recent progress in therapy for chronic myelogenous leukemia] Urabe A. **Gan To Kagaku Ryoho** 1997 Jul; 24(9):1066-73 (30 ref.) (Eng. Abstr.) **(Jpn)**

[Immunosuppression and the problems in homologous bone marrow transplantation] Yabe H, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):681-2 (0 ref.) **(Jpn)**

[Bone marrow allograft using unrelated donor tissues] Kodera Y. **Nippon Naika Gakkai Zasshi** 1996 Jun 10; 85(6):879-85 (10 ref.) **(Jpn)**

[An autopsied case doubly infected by mucor mycelia and herpes simplex virus-2 in the remission state after bone marrow transplantation for acute myelogenous leukemia] Muramori F, et al. **No To Shinkei** 1997 May;49(5):449-53 (Eng. Abstr.) **(Jpn)**

[HLA typing in the Japanese Bone Marrow Program] Akaza T. **Rinsho Byori** 1997 Feb;45(2):157-60 (0 ref.) (Eng. Abstr.) **(Jpn)**

[Direct detection of human cytomegalovirus in urine specimens from bone marrow transplant patients by polymerase chain reaction] Ohshima T, et al. **Rinsho Byori** 1996 Mar;44(3):267-73 (Eng. Abstr.) **(Jpn)**

[Foscarnet therapy for ganciclovir-refractory cytomegalovirus hepatitis in a patient who underwent bone marrow transplantation from an unrelated donor] Fujisaki T, et al. **Rinsho Ketsueki** 1997 Feb;38(2):142-5 (Eng. Abstr.) **(Jpn)**

[Combined deficiency in neutrophil functions after bone marrow transplantation and the in vitro effect of granulocyte colony-stimulating factor] Katoh M, et al. **Rinsho Ketsueki** 1997 Jul;38(7):566-71 (Eng. Abstr.) **(Jpn)**

[Bone marrow transplantation from an unrelated donor in patient with congenital heart diseases] Kumazaki H, et al. **Rinsho Ketsueki** 1996 Aug;37(8):731-3 (Eng. Abstr.) **(Jpn)**

[Role of bone marrow transplantation for high risk acute lymphoblastic leukemia in children] Matsuyama T, et al. **Rinsho Ketsueki** 1997 May;38(5):406-13 (11 ref.) **(Jpn)**

[Sudden cardiac tamponade due to hemorrhagic myocarditis after preconditioning marrow transplantation with cyclophosphamide in a patient with aplastic anemia] Miura Y, et al. **Rinsho Ketsueki** 1997 Jun;38(6):526-31 (Eng. Abstr.) **(Jpn)**

[Autologous BMT for B-lineage adult ALL patients using ex vivo purging with monoclonal antibodies] Mizuta S, et al. **Rinsho Ketsueki** 1997 May;38(5):422-5 **(Jpn)**

[The effects of preventive regimens for the prophylaxis of infection after bone marrow transplantation] Morishima Y, et al. **Rinsho Ketsueki** 1997 Feb;38(2):108-16 (Eng. Abstr.) **(Jpn)**

[Comparative study of bone marrow transplantation from unrelated donors and identical sibling donors in a single institute] Murata M, et al. **Rinsho Ketsueki** 1996 Nov; 37(11):1245-52 (Eng. Abstr.) **(Jpn)**

[Indication of unrelated donor bone marrow transplantation for refractory leukemia] Oh H. **Rinsho Ketsueki** 1996 Aug; 37(8):671-5 (7 ref.) **(Jpn)**

[Diffuse alveolar hemorrhage associated with idiopathic interstitial pneumonia syndrome after allogeneic bone marrow transplantation] Ohtsuka E, et al. **Rinsho Ketsueki** 1997 Jul;38(7):572-7 (Eng. Abstr.) **(Jpn)**

[Bone marrow transplants from unrelated donors] Okamoto S. **Rinsho Ketsueki** 1997 May;38(5):349-54 (19 ref.) **(Jpn)**

-Rejection of an allogeneic bone marrow graft following successful treatment of severe graft-versus-host disease (GVHD)] Sugimori N, et al. **Rinsho Ketsueki** 1996 Feb; 37(2):134-8 (Eng. Abstr.) **(Jpn)**

[Comparison of long-term survival between bone marrow transplantation and maintenance chemotherapy for adult acute lymphoblastic leukemia in first remission] Suzuki N, et al. **Rinsho Ketsueki** 1997 Feb;38(2):95-9 (Eng. Abstr.) **(Jpn)**

[Bone marrow transplantation versus maintenance chemotherapy for adult acute leukemia in first remission] Suzuki R, et al. **Rinsho Ketsueki** 1996 Dec;37(12):1362-70 (Eng. Abstr.) **(Jpn)**

[Recombinant human G-CSF combined regimen for allogeneic BMT in myeloid leukemias] Takahashi S. **Rinsho Ketsueki** 1997 Jun;38(6):489-95 **(Jpn)**

[An allogeneic bone marrow transplantation for chronic myelocytic leukemia with a large extramedullary tumor in the pelvic cavity] Yoshida M, et al. **Rinsho Ketsueki** 1996 Sep;37(9):838-42 (Eng. Abstr.) **(Jpn)**

[Aplastic anemia. Alternative treatment by bone marrow transplantation] Fonseca T, et al. **Acta Med Port** 1997 Jan; 10(1):99-102 (8 ref.) (Eng. Abstr.) **(Por)**

[The effect of leukemia-inhibitory factor on the hematopoiesis and stromal precursor cells in long-term culture of murine bone marrow] Drize NI, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):325-8 **(Rus)**

[Repopulation defect of hematopoietic stem cells after retrovirus transfer of foreign gene] Drize NI, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):75-8 **(Rus)**

[The number of functional hematopoietic clones in mice with bone marrow recovery depends upon the dose of transplanted cells] Drize NI, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):86-9 **(Rus)**

[Amplification of hypervariable genomic regions for establishment of the type of hematopoiesis in hemoblastosis patients after allogeneic bone marrow transplantation] Demidova IA, et al. **Genetika** 1997 Apr;33(4):546-9 (Eng.

Abstr.) **(Rus)**

[Immunological and hematological reconstruction of recipients in bone marrow transplantation from closely related donors] Zotikov EA, et al. **Klin Lab Diagn** 1997 Jan;(1):10–3 (Eng. Abstr.) **(Rus)**

[Bone marrow transplantation in the treatment of acute leukemias] Moiseev SI, et al. **Ter Arkh** 1996;68(12):8–10 (Eng. Abstr.) **(Rus)**

[PCR–detection of cytomegalovirus infection in oncologic and non–oncologic patients with organ and tissue transplantation] Aleksandrova IN, et al. **Vopr Onkol** 1996; 42(5):22–5 (Eng. Abstr.) **(Rus)**

[A simple model of the optimal time for allogenic bone marrow transplantation in chronic granulocytic leukemia] Popović S, et al. **Med Pregl** 1997 Mar–Apr;50(3–4):100–2 (Eng. Abstr.) **(Scr)**

[Infection in the patient undergoing bone marrow transplantation] Carratalá J, et al. **Enferm Infecc Microbiol Clin** 1997 May;15 Suppl 2:51–6 (90 ref.) **(Spa)**

[Bone marrow autotransplantation in acute myeloblastic leukemia in its first complete remission. The clinical results in 41 patients (see comments)] Tomás JF, et al. **Med Clin (Barc)** 1997 Feb 15;108(6):201–6 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Feb 15;108(6):221–3. **(Spa)**

[Autologous transplantation of peripheral blood stem cells in malignant lymphomas] Sánchez Luceros A, et al. **Medicina (B Aires)** 1995;55(4):366–72 (30 ref.) (Eng. Abstr.) **(Spa)**

[Indications for bone marrow transplantation] Prósper F, et al. **Rev Med Univ Navarra** 1994 Oct–Dec;38(4):212–25 (95 ref.) **(Spa)**

ADVERSE EFFECTS

Posttransplantation lymphoproliferative disorders in bone marrow transplant recipients are aggressive diseases with a high incidence of adverse histologic and immunobiologic features. Orazi A, et al. **Am J Clin Pathol** 1997 Apr; 107(4):419–29

Prediction of therapy–related acute myelogenous leukemia (AML) and myelodysplastic syndrome (MDS) after autologous bone marrow transplant (ABMT) for lymphoma. Legare RD, et al. **Am J Hematol** 1997 Sep; 56(1):45–51

Plasma von Willebrand Factor Antigen (vWF:AG) and thrombomodulin (TM) levels in Adult Thrombotic Thrombocytopenic Purpura/Hemolytic Uremic Syndromes (TTP/HUS) and bone marrow transplant–associated thrombotic microangiopathy (BMT–TM). Zeigler ZR, et al. **Am J Hematol** 1996 Dec; 53(4):213–20

Progressive outer retinal necrosis after bone marrow transplantation. Lewis JM, et al. **Am J Ophthalmol** 1996 Dec;122(6):892–5

Use of the ganciclovir implant for treating cytomegalovirus retinitis secondary to immunosuppression after bone marrow transplantation. McAuliffe PF, et al. **Am J Ophthalmol** 1997 May;123(5):702–3

Immunohistochemical study of skin lesions in acute and chronic graft versus host disease following bone marrow transplantation. Favre A, et al. **Am J Surg Pathol** 1997 Jan;21(1):23–34

Transfer of atopy following bone marrow transplantation. Bellou A, et al. **Ann Allergy Asthma Immunol** 1997 May; 78(5):513–6

Risk factors for capillary leakage syndrome after bone marrow transplantation. Nürnberger W, et al. **Ann Hematol** 1997 May;74(5):221–4

Two secondary malignancies following the successful treatment of a patient with acute lymphoblastic leukemia [letter] Garcia–Boyero R, et al. **Ann Oncol** 1996 Mar; 7(3):322–3

Evaluation of symptom distress in a bone marrow transplant outpatient environment. Lawrence CC, et al. **Ann Pharmacother** 1996 Sep;30(9):941–5

Lichen planus–like histopathologic characteristics in the cutaneous graft–vs–host reaction. Prognostic significance independent of time course after allogeneic bone marrow transplantation [see comments] Horn TD, et al. **Arch Dermatol** 1997 Aug;133(8):961–5. Comment in: Arch Dermatol 1997 Aug;133(8):1033–6.

Gastrointestinal and nutritional sequelae of bone marrow transplantation. Papadopoulou A, et al. **Arch Dis Child** 1996 Sep;75(3):208–13

Veno–occlusive disease of the liver following bone marrow transplantation: a clinical–pathological study of autopsy cases. Watanabe K, et al. **Artif Organs** 1996 Oct; 20(10):1145–50

Risks and benefits of pediatric bone marrow donation: a critical need for research. Weisz V, et al. **Behav Sci Law** 1996 Autumn;14(4):375–91 (57 ref.)

The outcome of unrelated donor bone marrow transplantation in patients with hematologic malignancies using tacrolimus (FK506) and low dose methotrexate for graft–versus–host disease prophylaxis. Devine SM, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):25–33

A controlled trial of long–term administration of intravenous immunoglobulin to prevent late infection and chronic graft–vs.–host disease after marrow transplantation: clinical outcome and effect on subsequent immune recovery. Sullivan KM, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):44–53

Preemptive ganciclovir administration based solely on asymptomatic pulmonary cytomegalovirus infection in allogeneic bone marrow transplant recipients: long–term follow–up. Zaia JA, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):88–93

Treatment of hepatic venocclusive disease with recombinant human tissue plasminogen activator and heparin in 42 marrow transplant patients. Bearman SI, et al. **Blood** 1997 Mar 1;89(5):1501–6

Prevention of graft–versus–host disease in mice using a suicide gene expressed in T lymphocytes. Cohen JL, et al. **Blood** 1997 Jun 15;89(12):4636–45

An experimental model of idiopathic pneumonia syndrome after bone marrow transplantation: I. The roles of minor H antigens and endotoxin. Cooke KR, et al. **Blood** 1996 Oct 15;88(8):3230–9

FK506 in combination with methotrexate for the prevention of graft–versus–host disease after marrow transplantation from matched unrelated donors. Nash RA, et al. **Blood** 1996 Nov 1;88(9):3634–41

Fludarabine monophosphate reduces the incidence and severity of graft–versus–host disease in a murine model of bone marrow transplantation [letter] Or R, et al. **Blood** 1997 Jul 1;90(1):471

Tacrolimus and minidose methotrexate for prevention of acute graft–versus–host disease after matched unrelated donor marrow transplantation. Przepiorka D, et al. **Blood** 1996 Dec 1;88(11):4383–9

Plasminogen activator inhibitor–1 confirms the diagnosis of hepatic veno–occlusive disease in patients with hyperbilirubinemia after bone marrow transplantation. Salat C, et al. **Blood** 1997 Mar 15;89(6):2184–8

High prevalence of hepatitis G virus in bone marrow transplant recipients and patients treated for acute leukemia. Skidmore SJ, et al. **Blood** 1997 May 15; 89(10):3853–6

Association of specific cytomegalovirus genotypes with death from myelosuppression after marrow transplantation. Torok–Storb B, et al. **Blood** 1997 Sep 1;90(5):2097–102

Inhibitory effect of a CD4–CDR3 peptide analog on graft–versus–host disease across a major histocompatibility complex–haploidentical barrier. Townsend RM, et al. **Blood** 1996 Oct 15;88(8):3038–47

Stomatococcus mucilaginosus meningitis in a patient with multiple myeloma following autologous stem cell transplantation. Abraham J, et al. **Bone Marrow Transplant** 1997 Mar;19(6):639–41

Growth after bone marrow transplantation in young children conditioned with chemotherapy alone. Adan L, et al. **Bone Marrow Transplant** 1997 Feb;19(3):253–6

Microangiopathy without hemolysis in a patient following allogeneic bone marrow transplantation. Akiyama H, et al. **Bone Marrow Transplant** 1997 Aug;20(3):261–3

Chagas' disease after bone marrow transplantation [see comments] Altclas J, et al. **Bone Marrow Transplant** 1996 Aug;18(2):447–8. Comment in: Bone Marrow Transplant 1997 May;19(9):958.

Bone marrow transplantation in chronic GvHD and autoimmune diseases. Andolina M, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:145–7

Progressive autologous graft–versus–host disease induced by cyclosporin A. Barredo JC, et al. **Bone Marrow Transplant** 1996 Sep;18(3):659–62

Granulocytic sarcoma after allogeneic bone marrow transplantation: a retrospective European multicenter survey. Acute and Chronic Leukemia Working Parties of the European Group for Blood and Marrow Transplantation. Békássy AN, et al. **Bone Marrow Transplant** 1996 May;17(5):801–8

Disseminated Fusarium sp. infection affecting the brain of a child after bone marrow transplantation. Bleggi–Torres LF, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1013–5

Marrow engraftment and clinical manifestations of capillary leak syndrome. Cahill RA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):177–84

Analysis of the immunoglobulin heavy–chain gene rearrangement providing molecular evidence of second lymphoma in a patient in apparent relapse after autotransplantation. Campana S, et al. **Bone Marrow Transplant** 1997 Aug;20(4):341–3

Ganciclovir prophylaxis for cytomegalovirus infection in pediatric allogeneic bone marrow transplant recipients. Canpolat C, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):589–93

Fungal infections in patients undergoing bone marrow transplantation: an approach to a rational management protocol. Castagnola E, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:97–106 (41 ref.)

Disseminated toxoplasmosis in marrow recipients: a report of three cases and a review of the literature. Bone Marrow Transplant Team. Chandrasekar PH, et al. **Bone Marrow Transplant** 1997 Apr;19(7):685–9

Thalidomide–responsive chronic pulmonary GVHD [letter; comment] Chen F, et al. **Bone Marrow Transplant** 1997 Jan;19(1):95–6. Comment on: Bone Marrow Transplant 1996 Feb;17(2):291–3.

Trichostrongylus infestation masquerading as conditioning toxicity of the gut in bone marrow transplantation [letter] Chim CS, et al. **Bone Marrow Transplant** 1997 May; 19(9):955–6

Esophageal aspergillosis after bone marrow transplant. Choi JH, et al. **Bone Marrow Transplant** 1997 Feb;19(3):293–4

The role of plasma exchange for TTP/HUS post–bone marrow transplant [letter] Chown SR, et al. **Bone Marrow Transplant** 1996 May;17(5):898–9

Long–term neuropsychological risks in pediatric bone marrow transplant: what do we know? Cool VA. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S45–9

Early reactivation of cytomegalovirus and high risk of interstitial pneumonitis following T–depleted BMT for adults with hematological malignancies. Couriel D, et al. **Bone Marrow Transplant** 1996 Aug;18(2):347–53

Idiopathic hyperammonemia: a frequently lethal complication of bone marrow transplantation. Davies SM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1119–25

Increased incidence of CMV infection after allogeneic bone marrow transplantation from unrelated donors but doubts about an increase in CMV–associated disease [letter] de la Cámara R, et al. **Bone Marrow Transplant** 1997 Jul; 20(2):181

Fatal autoimmune pancytopenia following bone marrow transplantation for aplastic anaemia. De Lord C, et al. **Bone Marrow Transplant** 1996 Jul;18(1):237–9

Immune escape from a graft–versus–leukemia effect may play a role in the relapse of myeloid leukemias following allogeneic bone marrow transplantation. Dermime S, et al. **Bone Marrow Transplant** 1997 May;19(10):989–99

Immunotherapy of respiratory syncytial virus pneumonia following bone marrow transplantation. De Vincenzo JP, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1051–6

Early organ toxicity following allogeneic bone marrow transplantation in congenital hemopathies. Di Bartolomeo P, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:152–6

Autoimmune hemolytic anemia following T cell–depleted allogeneic bone marrow transplantation. Drobyski WR, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1093–9

Cardiovascular function in children following bone marrow transplant: a cross–sectional study. Eames GM, et al. **Bone Marrow Transplant** 1997 Jan;19(1):61–6

Murine IL–10 fails to reduce GVHD despite inhibition of alloreactivity in vitro. Emmanouilides CE, et al. **Bone Marrow Transplant** 1996 Aug;18(2):369–75

Kaposi's sarcoma after allogeneic bone marrow transplantation. Erer B, et al. **Bone Marrow Transplant** 1997 Mar;19(6):629–31

Abnormal thyroid stimulating hormone (TSH) levels in adults following allogeneic bone marrow transplants. Al–Fiar FZ, et al. **Bone Marrow Transplant** 1997 May;19(10):1019–22

Pneumopathy in children after bone marrow transplantation. Report from the AIEOP–BMT Registry. The Italian Association of Pediatric Hematology–Oncology BMT Group. Garaventa A, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:160–2

Complete remission of lichen–planus–like graft–versus–host disease (GVHD) with extracorporeal photochemotherapy (ECP). Gerber M, et al. **Bone Marrow Transplant** 1997 Mar; 19(5):517–9

Follow–up of leucocyte and reticulocyte counts for the prediction of early graft failure after non–HLA–identical BMT in children. Gerritsen EJ, et al. **Bone Marrow Transplant** 1996 May;17(5):781–7

Risk factors for developing EBV–related B cell lymphoproliferative disorders (BLPD) after non–HLA–identical BMT in children. Gerritsen EJ, et al. **Bone Marrow Transplant** 1996 Aug;18(2):377–82

Lymphocytosis of donor origin in cerebrospinal fluid, and marrow aplasia after donor leukocyte infusion for EBV–lymphoproliferative disease. Gharpure V, et al. **Bone Marrow Transplant** 1996 Jul;18(1):221–4

Clinical results of a stringent policy on prophylactic platelet transfusion: non–randomized comparative analysis in 190 bone marrow transplant patients from a single institution. Gil–Fernández JJ, et al. **Bone Marrow Transplant** 1996 Nov;18(5):931–5

De novo chronic graft–versus–host disease presenting as hemolytic anemia following partially mismatched related donor bone marrow transplant. Godder K, et al. **Bone Marrow Transplant** 1997 Apr;19(8):813–7

Treatment of hepatic veno–occlusive disease with low–dose tissue plasminogen activator: impact on coagulation profile. Goldberg SL, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):633–6

Factors predicting morbidity following hematopoietic stem cell transplantation. Gordon B, et al. **Bone Marrow Transplant** 1997 Mar;19(5):497–501

Rapid detection cytomegalovirus pneumonia in recipients of bone marrow transplant: evaluation and comparison of five survey methods for bronchoalveolar lavage fluid. Goto H, et al. **Bone Marrow Transplant** 1996 May;17(5):855–60

Anxiety as a possible predictor of acute GVHD. Gregurek R, et al. **Bone Marrow Transplant** 1996 Sep;18(3):585–9

Legionellosis in a bone marrow transplant center. Harrington RD, et al. **Bone Marrow Transplant** 1996 Aug;18(2):361–8

Monitoring of CMV infection: a comparison of PCR from whole blood, plasma–PCR, pp65–antigenemia and virus culture in patients after bone marrow transplantation. Hebart H, et al. **Bone Marrow Transplant** 1996 May; 17(5):861–8

Effect of mixed chimerism on graft–versus–host disease, disease recurrence and survival after HLA–identical marrow transplantation for aplastic anemia or chronic myelogenous leukemia. Huss R, et al.

Bone Marrow Transplant 1996 Oct;18(4):767–76
Pancreatitis following allogeneic bone marrow transplantation in a patient with aplastic anemia [letter] Ikushima S, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):485–6
Unsuccessful CTL transfusion in a case of post-BMT Epstein–Barr virus-associated lymphoproliferative disorder (EBV-LPD). Imashuku S, et al.
Bone Marrow Transplant 1997 Aug;20(4):337–40
Duration of Epstein-Barr virus (EBV)–associated polyclonal lymphoproliferative disease (LPD) following bone marrow transplantation [letter] Imashuku S, et al.
Bone Marrow Transplant 1996 Oct;18(4):823–4
Incidence and risk factors for invasive fungal infections in allogeneic BMT recipients. Jantunen E, et al.
Bone Marrow Transplant 1997 Apr;19(8):801–8
Preferential usage of T cell receptor (TCR) V beta by allogeneic T cells recognizing myeloid leukemia cells: implications for separating graft–versus–leukemia effect from graft–versus–host disease. Jiang YZ, et al.
Bone Marrow Transplant 1997 May;19(9):899–903
Gastro–intestinal toxicity related to bone marrow transplantation: disruption of the intestinal barrier precedes clinical findings. Johansson JE, et al.
Bone Marrow Transplant 1997 May;19(9):921–5
Bronchiolitis obliterans organizing pneumonia after syngeneic bone marrow transplantation for acute lymphoblastic leukemia. Kanda Y, et al.
Bone Marrow Transplant 1997 Jun;19(12):1251–3
Hydronephrosis in children after bone marrow transplantation: case reports. Kapelushnik J, et al.
Bone Marrow Transplant 1996 May;17(5):873–5
Proliferation of macrophage–lineage cells in the bone marrow, severe thymic atrophy, and extramedullary hematopoiesis of possible donor origin in an autopsy case of post–transplantation graft–versus–host disease. Kazama T, et al. **Bone Marrow Transplant** 1996 Aug;18(2):437–41
Pulmonary microsporidial infection in a patient with CML undergoing allogeneic marrow transplant. Kelkar R, et al.
Bone Marrow Transplant 1997 Jan;19(2):179–82
Acute mediastinitis secondary to leakage of parenteral nutrition from a migrated central venous catheter in a patient undergoing autologous bone marrow transplant. Keung YK, et al. **Bone Marrow Transplant** 1996 May; 17(5):871–2
Resolution of invasive central nervous system aspergillosis in a transplant recipient. Khoury H, et al.
Bone Marrow Transplant 1997 Jul;20(2):179–80
Transfer of autoimmune thyroiditis and resolution of palmoplantar pustular psoriasis following allogeneic bone marrow transplantation. Kishimoto Y, et al.
Bone Marrow Transplant 1997 May;19(10):1041–3
Bronchiolitis obliterans organizing pneumonia and chronic graft–versus–host disease in a child after allogeneic bone marrow transplantation. Kleinau I, et al.
Bone Marrow Transplant 1997 Apr;19(8):841–4
Deep Candida infection in children receiving allogeneic bone marrow transplants: incidence, risk factors and diagnosis. Klingspor L, et al. **Bone Marrow Transplant** 1996 Jun; 17(6):1043–9
Association between antibodies reactive with neutrophils, rate of neutrophil engraftment, and incidence of post–engraftment neutropenia following BMT. Klumpp TR, et al. **Bone Marrow Transplant** 1996 Sep;18(3):559–64
Decreased interleukin 10 and increased interferon–gamma production in patients with chronic graft–versus–host disease after allogeneic bone marrow transplantation. Körholz D, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):691–5
Cognitive and adaptive behavior 1 and 3 years following bone marrow transplantation. Kramer JH, et al.
Bone Marrow Transplant 1997 Mar;19(6):607–13
Screening for CMV–specific T cell proliferation to identify patients at risk of developing late onset CMV disease. Krause H, et al. **Bone Marrow Transplant** 1997 Jun; 19(11):1111–6
Multiple autoimmune events after autologous bone marrow transplantation. Lambertenghi–Deliliers GL, et al.
Bone Marrow Transplant 1997 Apr;19(7):745–7
Fiberoptic bronchoscopy and bronchoalveolar lavage for the evaluation of pulmonary infiltrates after BMT in children. Lanino E, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:117–20
Hepatic events after bone marrow transplantation in patients with hepatitis B infection: a case controlled study. Lau GK, et al. **Bone Marrow Transplant** 1997 Apr;19(8):795–9
Recombinant human tissue plasminogen activator for the treatment of severe hepatic veno–occlusive disease in pediatric bone marrow transplant patients. Leahey AM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1101–4
Idiopathic thrombocytopenic purpura following allogeneic bone marrow transplantation—treatment with anti–D immunoglobulin. Lee SJ, et al. **Bone Marrow Transplant** 1997 Jan;19(2):173–4
Transmission of Plasmodium falciparum by allogeneic bone marrow transplantation. Lefrère F, et al.
Bone Marrow Transplant 1996 Aug;18(2):473–4
Demonstration of late cardiotoxicity following bone marrow transplantation by assessment of exercise diastolic filling characteristics. Lele SS, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1113–8
Successful treatment of severe hepatic veno–occlusive disease after allogeneic bone marrow transplantation by transjugular intrahepatic portosystemic stent–shunt (TIPS). Lévy V, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):443–45
Use of a semi–quantitative PCR for cytomegalovirus DNA as a basis for pre–emptive antiviral therapy in allogeneic bone marrow transplant patients. Ljungman P, et al.
Bone Marrow Transplant 1996 Apr;17(4):583–7
Foscarnet for pre–emptive therapy of CMV infection detected by a leukocyte–based nested PCR in allogeneic bone marrow transplant patients. Ljungman P, et al.
Bone Marrow Transplant 1996 Sep;18(3):565–8
Management of thrombotic microangiopathy following allogeneic transplantation: what is the role of plasma exchange? Llamas P, et al. **Bone Marrow Transplant** 1997 Aug;20(4):305–6
Hepatitis viruses infections in bone marrow transplantation. Locasciulli A. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:115–6 (6 ref.)
Neosartorya fischeri: an invasive fungal pathogen in an allogeneic bone marrow transplant patient. Lonial S, et al.
Bone Marrow Transplant 1997 Apr;19(7):753–5
Late onset Pneumocystis carinii pneumonia following allogeneic bone marrow transplantation. Lyytikäinen O, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1057–9
Vasculitis post–autologous transplant causing pulmonary shadows in a patient with Hodgkin's disease. McCloy M, et al. **Bone Marrow Transplant** 1996 May;17(5):869–70
Clinical features and successful recovery from disseminated nocardiosis after BMT. Machado CM, et al.
Bone Marrow Transplant 1997 Jan;19(1):81–2
Myasthenia gravis in association with allogeneic bone marrow transplantation: clinical observations, therapeutic implications and review of literature. Mackey JR, et al.
Bone Marrow Transplant 1997 May;19(9):939–42
Health status of long term survivors after myeloablative therapy and bone marrow transplantation in children. Manfredini L, et al. **Bone Marrow Transplant** 1996 Nov; 18 Suppl 2:163–4
Absence of cytomegalovirus and Epstein–Barr virus expression in labial salivary glands of patients with chronic graft–versus–host disease. Mariette X, et al.
Bone Marrow Transplant 1996 Apr;17(4):607–10
A prospective study of the effects of high–dose chemotherapy and bone marrow transplantation on sexual function in the first year after transplant. Marks DI, et al.
Bone Marrow Transplant 1997 Apr;19(8):819–22
Antineutrophil cytoplasmic antibodies (ANCA) in chronic graft–versus–host disease after allogeneic bone marrow transplantation. Martin SJ, et al.
Bone Marrow Transplant 1997 Jul;20(1):45–8
Tuberculosis in bone marrow transplant recipients: report of two cases and review of the literature. Martino R, et al. **Bone Marrow Transplant** 1996 Oct;18(4):809–12 (19 ref.)
Amphotericin B lipid complex (ABLC) for the treatment of confirmed or presumed fungal infections in immunocompromised patients with hematologic malignancies. Mehta J, et al. **Bone Marrow Transplant** 1997 Jul;20(1):39–43
Risk of extramedullary relapse following allogeneic bone marrow transplantation for acute myelogenous leukemia with leukemia cutis. Michel G, et al.
Bone Marrow Transplant 1997 Jul;20(2):107–12
Management of hepatic veno–occlusive disease (VOD) in pediatric patients: retrospective analysis in 6 AIEOP–BMT (Italian Pediatric Hematology Oncology Association–Bone Marrow Transplantation Group) Centers. Miniero R, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:157–9
Intracardiac right–to–left shunting and the risk of stroke during bone marrow infusion. Moore TB, et al.
Bone Marrow Transplant 1997 Apr;19(8):855–6
Early infectious complications in autologous bone marrow transplantation: a review of 219 patients. Mossad SB, et al. **Bone Marrow Transplant** 1996 Aug;18(2):265–71
Noncontinuous use of angiotensin converting enzyme inhibitors in the treatment of experimental bone marrow transplant nephropathy. Moulder JE, et al.
Bone Marrow Transplant 1997 Apr;19(7):729–35
Anti–mitosin antibodies in a patient with chronic graft–versus–host disease after allogeneic bone marrow transplantation. Muro Y, et al. **Bone Marrow Transplant** 1997 May;19(9):951–3
Successful use of topical retinoic acid in severe dry eye due to chronic graft–versus–host disease. Murphy PT, et al.
Bone Marrow Transplant 1996 Sep;18(3):641–2
Comparison of cytomegalovirus antigenemia and shell vial culture in allogeneic marrow transplantation recipients receiving ganciclovir prophylaxis. Nicholson VA, et al.
Bone Marrow Transplant 1997 Jan;19(1):37–41
Listeriosis in bone marrow transplant recipients [letter] Nolla–Salas J, et al. **Bone Marrow Transplant** 1997 May; 19(9):956–8
Mucormycosis of the vulva following bone marrow transplantation. Nomura J, et al.
Bone Marrow Transplant 1997 Apr;19(8):859–60
Infectious complications of autologous bone marrow and peripheral stem cell transplantation for refractory leukemia and lymphoma. Nosanchuk JD, et al.
Bone Marrow Transplant 1996 Aug;18(2):355–9
Changes in hemostatic parameters in hepatic veno–occlusive disease following bone marrow transplantation. Park YD, et al. **Bone Marrow Transplant** 1997 May;19(9):915–20
A randomized comparison between early and late vaccination with tetanus toxoid vaccine after allogeneic BMT. Parkkali T, et al. **Bone Marrow Transplant** 1997 May;19(9):933–8
A comparison of early and late vaccination with Haemophilus influenzae type b conjugate and pneumococcal polysaccharide vaccines after allogeneic BMT. Parkkali T, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):961–7
Chagas' disease after bone marrow transplantation [letter; comment] Pasternak J, et al. **Bone Marrow Transplant** 1997 May;19(9):958. Comment on: Bone Marrow Transplant 1996 Aug;18(2):447–8.
Drug–induced parkinsonism after allogeneic bone marrow transplantation. Pavletic ZS, et al.
Bone Marrow Transplant 1996 Jun;17(6):1185–7
Protein–losing gastropathy associated with cytomegalovirus: a rare and late complication of allogeneic bone marrow transplantation. Pinho Vaz C, et al.
Bone Marrow Transplant 1996 May;17(5):887–9
Deficient reconstitution of early progenitors after allogeneic bone marrow transplantation. Podestà M, et al.
Bone Marrow Transplant 1997 May;19(10):1011–7
Long–term survival in allogeneic bone marrow transplant recipients following acyclovir prophylaxis for CMV infection. The European Acyclovir for CMV Prophylaxis Study Group. Prentice HG, et al.
Bone Marrow Transplant 1997 Jan;19(2):129–33
Clinical strategies for the management of cytomegalovirus infection and disease in allogeneic bone marrow transplant. Prentice HG, et al. **Bone Marrow Transplant** 1997 Jan; 19(2):135–42 (27 ref.)
Unexplained effusions: association with allogeneic bone marrow transplantation and acute or chronic graft–versus–host disease [letter; comment] Pretnar J, et al. **Bone Marrow Transplant** 1996 Oct;18(4):826. Comment on: Bone Marrow Transplant 1996 Feb;17(2):207–11.
Serum HLA class I antigen levels in allogeneic bone marrow transplantation: a possible marker of acute GVHD. Puppo F, et al. **Bone Marrow Transplant** 1996 May;17(5):753–8
Hemolytic uremic syndrome after autologous BMT without TBI [letter; comment] Raybon KB, et al.
Bone Marrow Transplant 1996 May;17(5):897–8. Comment on: Bone Marrow Transplant 1994 Oct;14(4):495–504.
European survey of herpesvirus resistance to antiviral drugs in bone marrow transplant recipients. Infectious Diseases Working Party of the European Group for Blood and Marrow Transplantation (EBMT). Reusser P, et al.
Bone Marrow Transplant 1996 May;17(5):813–7
The challenge of cytomegalovirus infection after bone marrow transplantation: epidemiology, prophylaxis, and therapy. Reusser P. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:107–9 (19 ref.)
Vascular endothelial lesion in patients undergoing bone marrow transplantation. Richard S, et al.
Bone Marrow Transplant 1996 Nov;18(5):955–9
Disseminated superficial porokeratosis after autologous bone marrow transplantation. Rio B, et al.
Bone Marrow Transplant 1997 Jan;19(1):77–9
Graft–versus–leukemia effect after allogeneic bone marrow transplantation for chronic lymphocytic leukemia. Rondón G, et al. **Bone Marrow Transplant** 1996 Sep;18(3):669–72
Phase II trial of heparin prophylaxis for veno–occlusive disease of the liver in children undergoing bone marrow transplantation. Rosenthal J, et al.
Bone Marrow Transplant 1996 Jul;18(1):185–91
No prevention of cytomegalovirus infection by anti–cytomegalovirus hyperimmune globulin in seronegative bone marrow transplant recipients. The Nordic BMT Group. Ruutu T, et al.
Bone Marrow Transplant 1997 Feb;19(3):233–6
A survey of the prophylaxis and treatment of acute GVHD in Europe: a report of the European Group for Blood and Marrow, Transplantation (EBMT). Chronic Leukaemia Working Party of the EBMT. Ruutu T, et al.
Bone Marrow Transplant 1997 Apr;19(8):759–64
Pulmonary toxoplasmosis after allogeneic bone marrow transplantation: case report and review. Saad R, et al.
Bone Marrow Transplant 1996 Jul;18(1):211–2 (10 ref.)
Comparison of cytomegalovirus (CMV) antigenemia and CMV in bronchoalveolar lavage fluid for diagnosis of CMV pulmonary infection after bone marrow transplantation. Sakamaki H, et al.
Bone Marrow Transplant 1997 Jul;20(2):143–7
Endothelial cell markers in bone marrow transplant recipients with and without acute graft–versus–host disease. Salat C, et al. **Bone Marrow Transplant** 1997 May;19(9):909–14
Plasmodium vivax malaria after autologous bone marrow transplantation: an unusual complication. Salutari P, et al.
Bone Marrow Transplant 1996 Oct;18(4):805–6
Malignancy–associated pulmonary veno–occlusive disease: report of a case following autologous bone marrow transplantation and review. Salzman D, et al.
Bone Marrow Transplant 1996 Oct;18(4):755–60 (40 ref.)
Rhabdomyolysis associated with septicemia after autologous bone marrow transplantation [letter] Sanfructuoso C, et al.
Bone Marrow Transplant 1997 Jan;19(1):95
Paranasal sinusitis following allogeneic bone marrow transplant. Savage DG, et al. **Bone Marrow Transplant** 1997 Jan;19(1):55–9 (29 ref.)
Tumor cell contamination of peripheral blood stem cell transplants and bone marrow in high–risk breast cancer patients. Schulze R, et al. **Bone Marrow Transplant** 1997

Jun;19(12):1223–8

Pancreatitis post–bone marrow transplantation. Shore T, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1181–4

Disseminated BCG infection in severe combined immunodeficiency presenting with severe anaemia and associated with gross hypersplenism after bone marrow transplantation. Skinner R, et al. **Bone Marrow Transplant** 1996 May;17(5):877–80

Misleading high values of oxygen saturation measured by pulse oximetry in excessive hyperbilirubinaemia after BMT [letter] Staudinger T, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1025

Serum interleukin–6 levels during bone marrow transplantation: impact on transplant–related toxicity and engraftment. Steffen M, et al. **Bone Marrow Transplant** 1996 Aug;18(2):301–7

Rhabdomyolysis following administration of cyclophosphamide: a case report in a BMT recipient. Tabata N, et al. **Bone Marrow Transplant** 1996 Jun; 17(6):1167–9

Increased incidence of cytomegalovirus (CMV) infection and CMV–associated disease after allogeneic bone marrow transplantation from unrelated donors. The Fukuoka Bone Marrow Transplantation Group. Takenaka K, et al. **Bone Marrow Transplant** 1997 Feb;19(3):241–8

Increased plasma level of vascular endothelial glycoprotein thrombomodulin as an early indicator of endothelial damage in bone marrow transplantation. Testa S, et al. **Bone Marrow Transplant** 1996 Aug;18(2):383–8

Late–onset keratoconjunctivitis sicca syndrome after bone marrow transplantation: incidence and risk factors. European Group or Blood and Marrow Transplantation (EBMT) Working Party on Late Effects. Tichelli A, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1105–11

Detection of hepatitis G virus from serum and liver of a patient with long–term liver dysfunction after autologous bone marrow transplantation. Tomás JF, et al. **Bone Marrow Transplant** 1997 May;19(10):1053–7

Solitary pulmonary cholesteroloma, multiple xanthelasmas and lipemia retinalis complicating hypercholesterolemia after bone marrow transplantation. Toren A, et al. **Bone Marrow Transplant** 1996 Aug;18(2):457–9

Malaria infection after allogeneic bone marrow transplantation in a child with thalassemia. Tran VB, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1259–60

Successful program to prevent aspergillus infections in children undergoing marrow transplantation: use of nasal amphotericin. Trigg ME, et al. **Bone Marrow Transplant** 1997 Jan;19(1):43–7

Cokeromyces recurvatus infection in a bone marrow transplant recipient. Tsai TW, et al. **Bone Marrow Transplant** 1997 Feb;19(3):301–2

Hepatitis B virus infection in allogeneic bone marrow transplantation. Ustün C, et al. **Bone Marrow Transplant** 1997 Aug;20(4):289–96

Treatment of chronic graft–versus–host disease with ultraviolet irradiation and psoralen (PUVA). Vogelsang GB, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1061–7

Prophylaxis and pre–emptive therapy of bacterial infections following allogeneic bone marrow transplantation in children. Vossen JM, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:93–6

Myocardial infarction following allogeneic bone marrow transplantation [letter] Wang B, et al. **Bone Marrow Transplant** 1996 Aug;18(2):479–80

Effect of deoxyspergualin on graft–versus–host disease and graft– versus–leukemia in mice. Weiss L, et al. **Bone Marrow Transplant** 1996 May;17(5):789–92

Efficacy of amphotericin B lipid complex injection (ABLC) in bone marrow transplant recipients with life–threatening systemic mycoses. Wingard JR. **Bone Marrow Transplant** 1997 Feb;19(4):343–7

Lack of interaction between tacrolimus (FK506) and methotrexate in bone marrow transplant recipients. Wingard JR, et al. **Bone Marrow Transplant** 1997 Jul; 20(1):49–51

Non–gingival soft tissue growths after allogeneic marrow transplantation. Woo SB, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1127–32

Complex partial status epilepticus after bone marrow transplantation for non–Hodgkin's lymphoma. Wszolek ZK, et al. **Bone Marrow Transplant** 1997 Mar;19(6):637–8

Fatal interstitial pulmonary disease in a patient with dyskeratosis congenita after allogeneic bone marrow transplantation. Yabe M, et al. **Bone Marrow Transplant** 1997 Feb;19(4):389–92

Tacrolimus (FK506) and methotrexate regimens to prevent graft–versus–host disease after unrelated dog leukocyte antigen (DLA) nonidentical marrow transplantation. Yu C, et al. **Bone Marrow Transplant** 1996 Apr;17(4):649–53

Epstein–Barr virus associated B–cell lymphoma after autologous bone marrow transplantation for T–cell acute lymphoblastic leukaemia. Briz M, et al. **Br J Haematol** 1997 Aug;98(2):485–7

Preceding standard therapy is the likely cause of MDS after autotransplants for multiple myeloma. Govindarajan R, et al. **Br J Haematol** 1996 Nov;95(2):349–53

Should cytomegalovirus be tested for in both blood and bronchoalveolar lavage fluid of patients at a high risk of CMV pneumonia after bone marrow transplantation? Ibrahim A, et al. **Br J Haematol** 1997 Jul;98(1):222–7

Avascular necrosis of bone after allogeneic bone marrow transplantation: analysis of risk factors for 4388 patients by the Société Française de Greffe de Moëlle (SFGM). Socié G, et al. **Br J Haematol** 1997 Jun;97(4):865–70

Short– and long–term follow–up of thyroid dysfunction after allogeneic bone marrow transplantation without the use of preparative total body irradiation. Toubert ME, et al. **Br J Haematol** 1997 Aug;98(2):453–7

Cyclosporin for thrombotic thrombocytopenic purpura after autologous bone marrow transplantation. van Ojik H, et al. **Br J Haematol** 1997 Mar;96(3):641–3

Graft–versus–host disease. Possible higher risk for African American patients. Easaw SJ, et al. **Cancer** 1996 Oct 1; 78(7):1492–7

Supportive care in bone marrow transplantation: pulmonary complications. Crawford SW. **Cancer Treat Res** 1997; 77:231–54 (86 ref.)

Orthoclone OKT3 for graft failure after allogeneic bone marrow transplantation: a case report. Yen CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Feb; 59(2):126–31

Fungal liver involvement in bone marrow transplant recipients [letter] Anand N, et al. **Clin Infect Dis** 1995 Dec; 21(6):1532–3

Methylobacterium bacteremia after infusion of contaminated autologous bone marrow. Brown MA, et al. **Clin Infect Dis** 1996 Nov;23(5):1191–2

Foscarnet therapy for cytomegalovirus infection after allogeneic bone marrow transplantation. Chang J, et al. **Clin Infect Dis** 1996 Mar;22(3):583–4

Nocardial infections in bone marrow transplant recipients. Chouciño C, et al. **Clin Infect Dis** 1996 Nov;23(5):1012–9 (41 ref.)

Prolonged enteroviral infection in a patient who developed pericarditis and heart failure after bone marrow transplantation. Galama JM, et al. **Clin Infect Dis** 1996 Jun; 22(6):1004–8

Chronic myelosuppression associated with persistent bone marrow infection due to human herpesvirus 6 in a bone marrow transplant recipient. Knox KK, et al. **Clin Infect Dis** 1996 Jan;22(1):174–5

Respiratory disease due to parainfluenza virus in adult bone marrow transplant recipients. Lewis VA, et al. **Clin Infect Dis** 1996 Nov;23(5):1033–7

Oral ribavirin for prevention of severe liver disease caused by hepatitis C virus during allogeneic bone marrow transplantation. Ljungman P, et al. **Clin Infect Dis** 1996 Jul;23(1):167–9

Listeriosis in bone marrow transplant recipient [letter] Martino R, et al. **Clin Infect Dis** 1996 Aug;23(2):419–20

Serendipitous detection of persistent Campylobacter jejuni subspecies jejuni bacteremia in a patient undergoing bone marrow transplantation. Schuster M, et al. **Clin Infect Dis** 1997 Jun;24(6):1270

Progressive multifocal leukoencephalopathy after autologous bone marrow transplantation in a patient with chronic myelogenous leukemia. Seong D, et al. **Clin Infect Dis** 1996 Aug;23(2):402–3

Nocardiosis after bone marrow transplantation: a retrospective study. van Burik JA, et al. **Clin Infect Dis** 1997 Jun;24(6):1154–60

A risk–adapted approach with a short course of ganciclovir to prevent cytomegalovirus (CMV) pneumonia in CMV–seropositive recipients of allogeneic bone marrow transplants. Verdonck LF, et al. **Clin Infect Dis** 1997 May; 24(5):901–7

Stage–specific manifestation of mold infections in bone marrow transplant recipients: risk factors and clinical significance of positive concentrated smears. Yuen KY, et al. **Clin Infect Dis** 1997 Jul;25(1):37–42

Infection in the bone marrow transplant recipient and role of the microbiology laboratory in clinical transplantation. LaRocco MT, et al. **Clin Microbiol Rev** 1997 Apr; 10(2):277–97 (312 ref.)

Secondary immunodeficiencies and stem cell transplantation: issues of administration and safety of intravenous immunoglobulin. Sullivan KM. **Clin Ther** 1996;18 Suppl B:126–36

Graft–vs.–host disease. Woo SB, et al. **Crit Rev Oral Biol Med** 1997;8(2):201–16 (138 ref.)

The role of endoscopic evaluation in patients with suspected intestinal graft–versus–host disease after allogeneic bone–marrow transplantation. Terdiman JP, et al. **Endoscopy** 1996 Oct;28(8):680–5

Quantitative scale of oral mucositis associated with autologous bone marrow transplantation. Tardieu C, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):381–7

Scedosporium apiospermum pneumonia after autologous bone marrow transplantation. García–Arata MI, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):600–3

Long–term survival of recipients of allogeneic bone–marrow transplantation after mechanical ventilation. Hollmig KA, et al. **Eur J Med Res** 1997 Feb 21;2(2):62–6

A retrospective study of ocular side effects in children undergoing bone marrow transplantation. De Marco R, et al. **Eur J Ophthalmol** 1996 Oct–Dec;6(4):436–9

Ophthalmological aspects in allogenic bone marrow transplantation: Sjögren–like syndrome in graft–versus–host disease. Mencucci R, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):13–8

Acalculous cholecystitis in patients undergoing bone marrow transplantation. Wiboltt KS, et al. **Eur J Surg** 1997 Jul; 163(7):519–24

Detecting "occult" viral infection after marrow transplantation [editorial; comment] Crawford SW. **Eur Respir J** 1996 Jun;9(6):1115–7 (27 ref.). Comment on: Eur Respir J 1996 Jun;9(6):1195–1200.

Sequential changes in serum iron and ferritin in patients undergoing high–dose chemotherapy and radiation with autologous bone marrow transplantation: possible implications for treatment related toxicity. Gordon LI, et al. **Free Radic Biol Med** 1995 Mar;18(3):383–9

Plasma cytokines in graft vs host disease and complications following bone marrow transplantation. Abdallah AN, et al. **Hematol Cell Ther** 1997 Feb;39(1):27–32

Incidence of graft vs host disease in allogeneic bone marrow transplantation in a single center study from Turkey. Ilhan O, et al. **Hematol Cell Ther** 1997 Jun;39(3):133–6

Polymerase chain reaction assays for the detection of cytomegalovirus in organ and bone marrow transplant recipients. Evans MJ, et al. **Immunol Invest** 1997 Jan–Feb; 26(1–2):209–29

The potential role of NK cells in the separation of graft–versus–tumor effects from graft–versus–host disease after allogeneic bone marrow transplantation. Murphy WJ, et al. **Immunol Rev** 1997 Jun;157:167–76 (83 ref.)

Biology and adoptive cell therapy of Epstein–Barr virus–associated lymphoproliferative disorders in recipients of marrow allografts. O'Reilly RJ, et al. **Immunol Rev** 1997 Jun;157:195–216 (186 ref.)

Adoptive cell therapy with donor lymphocytes for EBV–associated lymphomas developing after allogeneic marrow transplants. O'Reilly RJ, et al. **Important Adv Oncol** 1996;:149–66 (172 ref.)

Prevention of infections in bone marrow transplant recipients. Serody JS, et al. **Infect Dis Clin North Am** 1997 Jun; 11(2):459–77 (71 ref.)

Nosocomial Cryptococcus laurentii fungemia in a bone marrow transplant patient after prophylaxis with ketoconazole successfully treated with oral fluconazole [letter] Krcméry V Jr, et al. **Infection** 1997 Mar–Apr; 25(2):130

Sclerodermatous changes of chronic graft–versus–host–disease treated with puva. Woscoff A, et al. **Int J Dermatol** 1996 Sep;35(9):656–8 (26 ref.)

Myelodysplastic changes in three cases within 100 days after allogeneic bone marrow transplantation. Okamoto T, et al. **Int J Hematol** 1996 Feb;63(2):155–60

Total body irradiation prior to bone marrow transplantation: efficacy and safety of granisetron in the prophylaxis and control of radiation–induced emesis. Belkacémi Y, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):77–82

Pulmonary function changes in long–term survivors of bone marrow transplantation. Gore EM, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):67–75

Apheresis therapy for prolonged red cell aplasia after major ABO–mismatched bone marrow transplantation. Ohta S, et al. **Intern Med** 1997 Jul;36(7):487–91

Bone marrow transplant nephropathy: a case report and review of the literature. Cruz DN, et al. **J Am Soc Nephrol** 1997 Jan;8(1):166–73 (26 ref.)

Marked enzymuria after bone marrow transplantation: a correlate of veno–occlusive disease–induced "hepatorenal syndrome". Fink JC, et al. **J Am Soc Nephrol** 1995 Dec; 6(6):1655–60

Evaluation of renal function in 60 long–term survivors of bone marrow transplantation. Leblond V, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1661–5

Hemorrhagic cystitis as a complication of bone marrow transplantation. Ilhan O, et al. **J Chemother** 1997 Feb; 9(1):56–61

Apheresis in grade 4 bone marrow transplant associated thrombotic microangiopathy: a case series. Dua A, et al. **J Clin Apheresis** 1996;11(4):176–84 (39 ref.)

Neutralization of interferon–gamma exacerbates pneumocystis–driven interstitial pneumonitis after bone marrow transplantation in mice. Garvy BA, et al. **J Clin Invest** 1997 Apr 1;99(7):1637–44

Perforin/granzyme–dependent and independent mechanisms are both important for the development of graft–versus–host disease after murine bone marrow transplantation. Graubert TA, et al. **J Clin Invest** 1997 Aug 15;100(4):904–11

The critical early proinflammatory events associated with idiopathic pneumonia syndrome in irradiated murine allogeneic recipients are due to donor T cell infusion and potentiated by cyclophosphamide. Panoskaltsis–Mortari A, et al. **J Clin Invest** 1997 Sep 1;100(5):1015–27

Evaluation of a quantitative plasma PCR plate assay for detecting cytomegalovirus infection in marrow transplant recipients. Gallez–Hawkins GM, et al. **J Clin Microbiol** 1997 Mar;35(3):788–90

Monitoring of cytomegalovirus infection and disease in bone marrow recipients by reverse transcription–PCR and comparison with PCR and blood and urine cultures. Gozlan J, et al. **J Clin Microbiol** 1996 Sep;34(9):2085–8

Late effects of allogeneic bone marrow transplantation for children with acute myeloblastic leukemia in first complete remission: the impact of conditioning regimen without total–body irradiation—a report from the Société Française de Greffe de Moelle. Michel G, et al. **J Clin Oncol** 1997 Jun;15(6):2238–46

Role of non–transferrin bound iron in iron overload and liver dysfunction in long term survivors of acute leukaemia and bone marrow transplantation. Harrison P, et al.

J Clin Pathol 1996 Oct;49(10):853–6
Fusarium solani fungemia in a bone marrow transplant recipient. Fang CT, et al. **J Formos Med Assoc** 1997 Feb; 96(2):129–33
Reactivated fulminant hepatitis B virus replication after bone marrow transplantation: clinical course and possible treatment with ganciclovir. Mertens T, et al. **J Hepatol** 1996 Dec;25(6):968–71
Fatal primary cutaneous aspergillosis in a bone marrow transplant recipient: nosocomial acquisition in a laminar-air flow room. Bretagne S, et al. **J Hosp Infect** 1997 Jul; 36(3):235–9
Bacterial contamination of autologous bone marrow during processing [see comments] Smith D, et al.
J Hosp Infect 1996 May;33(1):71–6. Comment in: J Hosp Infect 1996 Sep;34(1):77–8. Comment in: J Hosp Infect 1996 Nov;34(3):230–3.
Bacterial contamination of autologous bone marrow during processing [letter; comment] Wilcox MH. **J Hosp Infect** 1996 Sep;34(1):77–8. Comment on: J Hosp Infect 1996 May;33(1):71–6.
Cytomegalovirus pp65 antigenemia after autologous marrow and peripheral blood stem cell transplantation. Boeckh M, et al. **J Infect Dis** 1996 Nov;174(5):907–12
Late cytomegalovirus disease in marrow transplantation is predicted by virus load in plasma. Zaia JA, et al.
J Infect Dis 1997 Sep;176(3):782–5
Veno-occlusive disease (VOD) of the liver in Korean patients following allogeneic bone marrow transplantation (BMT): efficacy of recombinant human tissue plasminogen activator (rt-PA) treatment. Lee JH, et al.
J Korean Med Sci 1996 Apr;11(2):118–26
Scintigraphy with indium-111-labeled homologous (donor) platelets in the platelet transfusion refractory bone marrow transplant patient. Hammersmith SM, et al. **J Nucl Med** 1997 Jul;38(7):1135–8
Herpes zoster infection after bone marrow transplantation in children. Kawasaki H, et al. **J Pediatr** 1996 Mar; 128(3):353–6
Pubertal development of children treated with marrow transplantation before puberty [editorial; comment] Sanders JE. **J Pediatr** 1997 Feb;130(2):174–5. Comment on: J Pediatr 1997 Feb;130(2):210–6.
Gonadal function after bone marrow transplantation for acute leukemia during childhood [see comments] Sarafoglou K, et al. **J Pediatr** 1997 Feb;130(2):210–6. Comment in: J Pediatr 1997 Feb;130(2):174–5.
Prevention of CMV disease in allogeneic BMT recipients by cytomegalovirus antigenemia-guided preemptive ganciclovir therapy. Koehler M, et al.
J Pediatr Hematol Oncol 1997 Jan–Feb;19(1):43–7
Neurodevelopmental side effects of bone marrow transplantation: two case illustrations of identical twins. McCabe MA, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):145–50
Appraisal of life threat and acute trauma responses in pediatric bone marrow transplant patients. Stuber ML, et al. **J Trauma Stress** 1996 Oct;9(4):673–86
Hypophosphataemia in patients undergoing bone marrow transplantation. Crook M, et al. **Leuk Lymphoma** 1996 Jul; 22(3–4):335–7
The mechanisms involved in the impairment of hematopoiesis after autologous bone marrow transplantation. Domenech J, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):239–56 (126 ref.)
Venocclusive disease of the liver after bone marrow transplantation: the role of hemostasis. Faioni EM, et al. **Leuk Lymphoma** 1997 Apr;25(3–4):233–45 (69 ref.)
melphalan, single-fraction total-body irradiation and allogeneic bone marrow transplantation for acute leukemia: review of transplant-related mortality. Hjiyiannakis P, et al. **Leuk Lymphoma** 1997 May;25(5–6):565–72
Inflammatory reactions induced by pretransplant conditioning--an alternative target for modulation of acute GvHD and complications following allogeneic bone marrow transplantation? Holler E, et al.
Leuk Lymphoma 1997 Apr;25(3–4):217–24 (35 ref.)
The graft-versus-leukemia effect of post-transplant donor leukocyte infusion. Johnson BD, et al. **Leuk Lymphoma** 1996 Sep;23(1–2):1–9 (65 ref.)
Antimycotic therapy with liposomal amphotericin-B for patients undergoing bone marrow or peripheral blood stem cell transplantation. Krüger W, et al. **Leuk Lymphoma** 1997 Feb;24(5–6):491–9
Antimicrobial prophylaxis to prevent opportunistic infections in patients with chronic lymphocytic leukemia after allogeneic blood or marrow transplantation. Mehta J, et al. **Leuk Lymphoma** 1997 Jun;26(1–2):83–8
The highest leukaemia-free survival after allogeneic bone marrow transplantation is seen in patients with grade I acute graft-versus-host disease. Acute and Chronic Leukaemia Working Parties of the European Group for Blood and Marrow Transplantation (EBMT). Ringdén O, et al. **Leuk Lymphoma** 1996 Dec;24(1–2):71–9
Late infections following allogeneic bone marrow transplantation: suggested strategies for prophylaxis. Roy V, et al. **Leuk Lymphoma** 1997 Jun;26(1–2):1–15 (77 ref.)
Immunomodulatory peptides with high binding affinity for class II MHC molecules for the prevention of graft-versus-host disease. Schlegel PG, et al.
Leuk Lymphoma 1996 Sep;23(1–2):11–6 (47 ref.)
Myeloproliferative disease and myelodysplastic syndrome induced by transplantation of bone marrow cells expressing mutant p53. Shounan Y, et al. **Leukemia** 1997 Oct; 11(10):1641–9
Comparison of the lymphoid toxicities of mitobronitol and busulphan in mice: reduced B cell toxicity and improved thymic recovery as possible contributors to the reduced risk for complications following BMT with mitobronitol preconditioning. Szebeni J, et al. **Leukemia** 1997 Oct; 11(10):1769–74
Low incidence of myelodysplastic syndrome following transplantation using autologous non-cryopreserved bone marrow. Taylor PR, et al. **Leukemia** 1997 Oct; 11(10):1650–3
The effect of hormone replacement therapy on bone mass in patients with ovarian failure due to bone marrow transplantation. Castelo-Branco C, et al. **Maturitas** 1996 Apr;23(3):307–12
Bronchiolitis obliterans presenting as subcutaneous emphysema and pneumomediastinum: a case report. Toren A, et al. **Med Oncol** 1996 Dec;13(4):195–7
Polymyositis as a manifestation of chronic graft-versus-host disease. Parker P, et al. **Medicine (Baltimore)** 1996 Sep; 75(5):279–85 (14 ref.)
Donor or recipient origin of post-transplantation lymphoproliferative disorders: evaluation by in situ hybridization. Le Frère-Belda MA, et al. **Mod Pathol** 1997 Jul;10(7):701–7
Solid cancers after bone marrow transplantation [see comments] Curtis RE, et al. **N Engl J Med** 1997 Mar 27; 336(13):897–904. Comment in: N Engl J Med 1997 Mar 27;336(13):949–50. Comment in: N Engl J Med 1997 Jul 31;337(5):345–6.
Solid cancers after bone marrow transplantation [letter; comment] Lai S, et al. **N Engl J Med** 1997 Jul 31; 337(5):345–6. Comment on: N Engl J Med 1997 Mar 27;336(13):897–904.
Neoplasms and transplantation - trading swords for plowshares [editorial; comment] Schenkein DP, et al.
N Engl J Med 1997 Mar 27;336(13):949–50. Comment on: N Engl J Med 1997 Mar 27;336(13):897–904.
Destruction of the nasal septum by aspergillus infection after autologous bone marrow transplantation [letter] Siberry GK, et al. **N Engl J Med** 1997 Jul 24;337(4):275–6
Taming the sinister side of BMT: Dr. Jekyll and Mr. Hyde [news] Pardoll D. **Nat Med** 1997 Aug;3(8):833–4
Neurologic complications of autologous and allogeneic bone marrow transplantation in patients with leukemia: a comparative study. Graus F, et al. **Neurology** 1996 Apr; 46(4):1004–9
Herpes virus-related lymphoproliferative disorders following allogeneic bone marrow transplantation: clinical and biological characteristics of six cases. Brion A, et al.
Nouv Rev Fr Hematol 1995;37(6):289–96
Delayed complications of bone marrow transplantation: an update. Buchsel PC, et al. **Oncol Nurs Forum** 1996 Sep; 23(8):1267–91 (75 ref.)
Retinopathy and optic neuropathy after transplantation [letter; comment] Theodosiadis P, et al. **Ophthalmology** 1997 Feb;104(2):170–1. Comment on: Ophthalmology 1996 Jan;103(1):87–95.
Oral involvement in chronic graft-versus-host disease after allogeneic bone marrow transplantation. Nakamura S, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):556–63
Gingival squamous cell carcinoma in a patient with chronic graft-versus-host disease. Otsubo H, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Aug;84(2):171–4
Clinical analgesic equivalence for morphine and hydromorphone with prolonged PCA. Dunbar PJ, et al. **Pain** 1996 Dec;68(2–3):265–70
Autoantibody formation after allogeneic bone marrow transplantation: correlation with the reconstitution of CD5+ B cells and occurrence of graft-versus-host disease. Chan EY, et al. **Pathology** 1997 May;29(2):184–8
Bone marrow transplantation in children. Imaging assessment of complications. Benya EC, et al.
Pediatr Clin North Am 1997 Jun;44(3):741–61 (30 ref.)
Late-onset hemorrhagic cystitis following bone marrow transplantation: a case report. Goddard AG, et al.
Pediatr Hematol Oncol 1997 May–Jun;14(3):273–5
Cryptococcal meningitis following a thrombotic microangiopathy in an unrelated donor bone marrow transplant recipient. Miniero R, et al.
Pediatr Hematol Oncol 1997 Sep–Oct;14(5):469–74
Disseminated coxsackie A9 infection complicating bone marrow transplantation. Aquino VM, et al.
Pediatr Infect Dis J 1996 Nov;15(11):1053–4
Teicoplanin pharmacokinetics in pediatric patients. Dufort G, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):494–8
Non-infectious interstitial alveolitis and foreign body pulmonary vasculitis in a child treated for acute lymphoblastic leukemia. Loriette Y, et al.
Pediatr Pulmonol 1997 May;23(5):382–5
Noncardiogenic pulmonary congestion following bone marrow transplantation. Or R, et al. **Respiration** 1997; 64(2):170–2
Fatal outcome of disseminated candidosis after allogeneic bone marrow transplantation under treatment with liposomal and conventional amphotericin-B. A report of 4 cases with determination of the Mic values. Krüger W, et al. **Scand J Infect Dis** 1996;28(3):313–6
Primary and secondary infections by human parvovirus B19 following bone marrow transplantation: characterization by PCR and B-cell molecular immunology. Söderlund M, et al. **Scand J Infect Dis** 1997;29(2):129–35
Antithrombin deficiency in special clinical syndromes--Part II: hematologic malignancies and bone marrow transplantation. Haire WD. **Semin Hematol** 1995 Oct;32(4 Suppl 2):56–60 (8 ref.)
Transplantation-associated thrombotic thrombocytopenic purpura and hemolytic uremic syndrome. Schriber JR, et al. **Semin Hematol** 1997 Apr;34(2):126–33 (76 ref.)
Renal toxicities of antineoplastic drugs and bone marrow transplantation. Berns JS, et al. **Semin Nephrol** 1997 Jan; 17(1):54–66 (167 ref.)
Modelling prevalence of a condition: chronic graft-versus-host disease after bone marrow transplantation. Couper D, et al. **Stat Med** 1997 Jul 30; 16(14):1551–71 (11 ref.)
Fatigue in women treated with bone marrow transplantation for breast cancer: a comparison with women with no history of cancer. Hann DM, et al.
Support Care Cancer 1997 Jan;5(1):44–52
Bronchiectasis in bone marrow transplantation [see comments] Morehead RS. **Thorax** 1997 Apr;52(4):392–3. Comment in: Thorax 1997 Apr;52(4):390–1.
Immunodeficiency after allogeneic bone marrow transplantation in man: the role of antigen presenting cells. Møller J, et al. **Tokai J Exp Clin Med** 1996 Feb;21(1):13–7
Cytotoxic T cell activity after HLA-mismatch bone marrow transplantation. Møller J, et al. **Tokai J Exp Clin Med** 1996 Feb;21(1):19–23
Pure red cell aplasia after major ABO-incompatible bone marrow transplantation: two case reports of treatment with recombinant human erythropoietin. Fujisawa S, et al.
Transpl Int 1996;9(5):506–8
Hepatitis GBV-C viremia in liver, heart, and bone marrow recipients. Zemel R, et al. **Transplant Proc** 1997 Sep; 29(6):2653–4
Prevention of lethal graft-versus-host disease following allogeneic bone marrow transplantation in mice by short course administration of LF 08-0299. Annat J, et al.
Transplantation 1996 Sep 27;62(6):721–9
Plasma polymerase chain reaction for cytomegalovirus DNA after allogeneic marrow transplantation: comparison with polymerase chain reaction using peripheral blood leukocytes, pp65 antigenemia, and viral culture. Boeckh M, et al. **Transplantation** 1997 Jul 15;64(1):108–13
Treatment of hepatic venoocclusive disease with recombinant human tissue plasminogen activator or orthotopic liver transplantation after allogeneic bone marrow transplantation. Hägglund H, et al. **Transplantation** 1996 Oct 27;62(8):1076–80
Idiopathic pneumonia syndrome: changing spectrum of lung injury after marrow transplantation. Kantrow SP, et al. **Transplantation** 1997 Apr 27;63(8):1079–86
Orthotopic liver transplantation for veno-occlusive disease complicating autologous bone marrow transplantation. Norris S, et al. **Transplantation** 1997 May 27;63(10):1521–4
Association between incidence of Aspergillus antigenemia and exposure to construction works at a hospital site. Ansorg R, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):146–52
[Preventive strategies against infections in autologous bone marrow transplantation] Olesen G, et al. **Ugeskr Laeger** 1997 Mar 3;159(10):1438–42 (Eng. Abstr.) **(Dan)**
[Azole antifungal agents in the prevention of fungal infections in neutropenic patients and bone marrow graft recipients] Lortholary O, et al. **Ann Med Interne (Paris)** 1997; 148(3):258–67 (106 ref.) (Eng. Abstr.) **(Fre)**
[Veno-occlusive disease after bone marrow transplantation: preventive effect of heparin] Parquet N, et al.
Ann Med Interne (Paris) 1997;148(2):132–5 (15 ref.) (Eng. Abstr.) **(Fre)**
[Herpesvirus and varicella-zoster virus after bone marrow transplantation] Milpied N. **Presse Med** 1997 Jan;26 Suppl 1:4–6 (18 ref.) **(Fre)**
[Lung complications of hematopoietic stem cell transplantation] Philit F, et al. **Rev Mal Respir** 1996 Nov; 13(5 Suppl):S71–84 (116 ref.) (Eng. Abstr.) **(Fre)**
[A case of nephrotic syndrome after bone marrow transplantation] Yabana M, et al.
Nippon Jinzo Gakkai Shi 1997 May;39(4):414–20 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Nephrotic syndrome related to chronic graft versus host disease after allogeneic bone marrow transplantation in a patient with malignant lymphoma] Haseyama K, et al.
Rinsho Ketsueki 1996 Dec;37(12):1383–8 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Hypereosinophilia after allogeneic bone marrow transplantation. A possible role of IL-5 overproduction by donor T-cells chronic GVHD] Masumoto A, et al.
Rinsho Ketsueki 1997 Mar;38(3):234–6 (Eng. Abstr.) **(Jpn)**
[Bronchiolitis obliterans organizing pneumonia (BOOP) after allogeneic bone marrow transplantation] Nakayama M, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1271–5 (Eng. Abstr.) **(Jpn)**
[Positive seroconversion syphilis in a patient with acute lymphocytic leukemia after allogeneic bone marrow transplantation] Naohara T, et al. **Rinsho Ketsueki** 1997 Mar;38(3):228–30 (Eng. Abstr.) **(Jpn)**
[Rapid onset of hemolytic anemia after allogeneic bone marrow transplantation from an unrelated ABO major

mismatched donor] Watanabe H, et al. **Rinsho Ketsueki** 1997 Jan;38(1):14–20 (Eng. Abstr.) **(Jpn)**

[The prevention of hemorrhagic cystitis during the performance of bone marrow and peripheral blood stem cell transplantation in the hematologic cancer clinic] Uss AL, et al. **Ter Arkh** 1996;68(10):49–52 (Eng. Abstr.) **(Rus)**

[Toxic complications of high-dose polychemotherapy in the transplantation of bone marrow and of peripheral blood stem cells] Uss AL, et al. **Ter Arkh** 1997;69(2):46–50 (Eng. Abstr.) **(Rus)**

[The use of nested polymerase chain reaction method for rapid detection of cytomegalovirus in peripheral blood leukocytes of patients after bone marrow transplantation] Klincheva SA, et al. **Vopr Virusol** 1996 Jul–Aug; 41(4):147–9 (Eng. Abstr.) **(Rus)**

[Lymphoproliferative syndromes associated to the Epstein Barr virus in organ transplants] Hidalgo M, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):310–6 (116 ref.) **(Spa)**

[Prevention and treatment of bacterial infections in bone marrow transplantation] Sanz Alonso MA, et al. **Rev Clin Esp** 1995 Oct;195 Spec No:19–21 **(Spa)**

CONTRAINDICATIONS

Prior fungal infection is not a contraindication to bone marrow transplant in patients with acute leukemia. Hoover M, et al. **Med Pediatr Oncol** 1997 Apr;28(4):268–73

ECONOMICS

The true cost of bone marrow transplantation. Weeks FM, et al. **Am J Med Sci** 1997 Aug;314(2):101–12 (64 ref.)

Peripheral blood stem cell and bone marrow transplantation for solid tumors and lymphomas: hematologic recovery and costs. A randomized, controlled trial. Hartmann O, et al. **Ann Intern Med** 1997 Apr 15;126(8):600–7

An economic evaluation of peripheral blood stem cell transplantation as an alternative to autologous bone marrow transplantation in multiple myeloma. Duncan N, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1175–8

Cost-effectiveness of autologous bone marrow transplantation in patients with relapsed non-Hodgkin's lymphoma. Messori A, et al. **Bone Marrow Transplant** 1997 Feb;19(3):275–81

Health care economics and bone marrow transplantation. Westerman I, et al. **Cancer Treat Res** 1997;77:377–99 (56 ref.)

Economic analysis of a randomized clinical trial to compare filgrastim-mobilized peripheral-blood progenitor-cell transplantation and autologous bone marrow transplantation in patients with Hodgkin's and non-Hodgkin's lymphoma. Smith TJ, et al. **J Clin Oncol** 1997 Jan;15(1):5–10

How one company decides when to pay for experimental therapies [news] **Oncology (Huntingt)** 1995 Jul;9(7):666

Health insurance: coverage of autologous bone marrow transplantation for breast cancer. Jaggar SF. **Oncology (Huntingt)** 1996 Sep;10(9):1329–32, 1337–8, 1340 passim

A review of the costs, cost-effectiveness and third-party charges of bone marrow transplantation. Westerman IL, et al. **Stem Cells** 1996 May;14(3):312–9 (25 ref.)

[Difference in costs of autologous transplantation of peripheral and bone marrow hematopoietic stem cells. A retrospective analysis over 1 year of transplantation in lymphoma, Hodgkin's disease and myeloma in a Center] Rio B, et al. **Ann Med Interne (Paris)** 1996;147(5):313–9 (Eng. Abstr.) **(Fre)**

HISTORY

The history of bone-marrow transplantation. Perry AR, et al. **Blood Rev** 1996 Dec;10(4):215–9 (73 ref.)

IMMUNOLOGY

The role of adhesion and costimulation molecules in graft-versus-host disease. Schlegel PG. **Acta Haematol** 1997;97(1–2):105–17 (191 ref.)

The significance of light chain-restricted bone marrow plasma cells after peripheral blood stem cell transplantation for multiple myeloma. Maia DM, et al. **Am J Clin Pathol** 1997 Jun;107(6):643–52

Characteristics of human EBV-specific cytotoxic T lymphocytes utilized for adoptive immunotherapy of EBV-induced lymphoproliferations in xenografted SCID mice. Lacerda JF, et al. **Ann Oncol** 1997;8 Suppl 2:137–40

Transplantation with allogenic bone marrow from a donor with systemic lupus erythematosus (SLE): successful outcome in the recipient and induction of an SLE flare in the donor. Sturfelt G, et al. **Ann Rheum Dis** 1996 Sep; 55(9):638–41

The immune system following bone marrow transplantation. Ross DW. **Arch Pathol Lab Med** 1996 Sep;120(9):885–6 (6 ref.)

The impact of T-cell depletion on the effects of HLA DR beta 1 and DQ beta allele matching in HLA serologically identical unrelated donor bone marrow transplantation. Gajewski J, et al. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):76–82

Low dose subcutaneous interleukin-2 after autologous transplantation generates sustained in vivo natural killer cell activity. Miller JS, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):34–44

Immune reconstitution following T-cell depleted bone marrow transplantation: effect of age and posttransplant graft rejection prophylaxis. Small TN, et al. **Biol Blood Marrow Transplant** 1997 Jun;3(2):65–75

CD6+ T cell depleted allogeneic bone marrow transplantation from genotypically HLA nonidentical related donors. Soiffer RJ, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):11–7

The effect of thymic function on immunocompetence following bone marrow transplantation. Weinberg K, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):18–23

Normal immunologic response to a neoantigen, bacteriophage phiX-174, in baboons with long-term lymphohematopoietic reconstitution from highly purified CD34+ Lin- allogeneic marrow cells. Andrews RG, et al. **Blood** 1997 Aug 15;90(4):1701–8

Specific tolerance induction and transplantation: a single-day protocol. de Vries-van der Zwan A, et al. **Blood** 1997 Apr 1;89(7):2596–601

Differential maintenance of primitive human SCID-repopulating cells, clonogenic progenitors, and long-term culture-initiating cells after incubation on human bone marrow stromal cells. Gan OI, et al. **Blood** 1997 Jul 15;90(2):641–50

Osteogenic growth peptide increases blood and bone marrow cellularity and enhances engraftment of bone marrow transplants in mice. Gurevitch O, et al. **Blood** 1996 Dec 15;88(12):4719–24

Major histocompatibility complex restriction between hematopoietic stem cells and stromal cells in vivo. Hashimoto F, et al. **Blood** 1997 Jan 1;89(1):49–54

Essential role of the thymus to reconstitute naive (CD45RA+) T-helper cells after human allogeneic bone marrow transplantation. Heitger A, et al. **Blood** 1997 Jul 15;90(2):850–7

Use of partially mismatched related donors extends access to allogeneic marrow transplant. Henslee-Downey PJ, et al. **Blood** 1997 May 15;89(10):3864–72

Specificity of effector T lymphocytes in autologous graft-versus-host disease: role of the major histocompatibility complex class II invariant chain peptide. Hess AD, et al. **Blood** 1997 Mar 15;89(6):2203–9

Host F1 mice pretreated with granulocyte colony-stimulating factor accept parental bone marrow grafts in hybrid resistance system. Iizuka K, et al. **Blood** 1997 Feb 15;89(4):1446–51

Cytokine-facilitated transduction leads to low-level engraftment in nonablated hosts. Kittler EL, et al. **Blood** 1997 Jul 15;90(2):865–72

A synthetic CD4-CDR3 peptide analog enhances bone marrow engraftment across major histocompatibility barriers. Koch U, et al. **Blood** 1997 Apr 15;89(8):2880–90

Association of HLA-C disparity with graft failure after marrow transplantation from unrelated donors. Petersdorf EW, et al. **Blood** 1997 Mar 1;89(5):1818–23

Cytomegalovirus-specific T-cell immunity in recipients of autologous peripheral blood stem cell or bone marrow transplants. Reusser P, et al. **Blood** 1997 May 15; 89(10):3873–9

Reconstitution of membrane IgD- (mIgD-) B cells after marrow transplantation lags behind the reconstitution of mIgD+ B cells [letter; comment] Storek J, et al. **Blood** 1997 Jan 1;89(1):350–1. Comment on: Blood 1996 Mar 1;87(5):1873–80.

Constitutive expression of a CD44 variant isoform on T cells facilitates regaining of immunocompetence in allogeneic bone marrow transplantation. Zöller M, et al. **Blood** 1997 Jul 15;90(2):873–85

Eradication of polymerase chain reaction detectable immunoglobulin gene rearrangement in non-Hodgkin's lymphoma is associated with decreased relapse after autologous bone marrow transplantation. Zwicky CS, et al. **Blood** 1996 Nov 1;88(9):3314–22

Late onset haemolysis and red cell autoimmunisation after allogeneic bone marrow transplant. Chen FE, et al. **Bone Marrow Transplant** 1997 Mar;19(5):491–5 (23 ref.)

Long-term engraftment following in utero T cell-depleted parental marrow transplantation into fetal rhesus monkeys. Cowan MJ, et al. **Bone Marrow Transplant** 1996 Jun; 17(6):1157–65

Induction of graft-versus-leukemia effect in a patient with chronic lymphocytic leukemia. deMagalhaes-Silverman M, et al. **Bone Marrow Transplant** 1997 Jul;20(2):175–7

Immune escape from a graft-versus-leukemia effect may play a role in the relapse of myeloid leukemias following allogeneic bone marrow transplantation. Dermime S, et al. **Bone Marrow Transplant** 1997 May;19(10):989–99

Search for the antigen-specificity of homogeneous IgG components (H-IgG) after allogeneic bone marrow transplantation. Gerritsen EJ, et al. **Bone Marrow Transplant** 1996 May;17(5):825–33

Alloresistance to K locus class I-mismatched bone marrow engraftment is mediated entirely by CD4+ and CD8+ T cells. Hayashi H, et al. **Bone Marrow Transplant** 1996 Aug;18(2):285–92

Effect of mixed chimerism on graft-versus-host disease, disease recurrence and survival after HLA-identical marrow transplantation for aplastic anemia or chronic myelogenous leukemia. Huss R, et al. **Bone Marrow Transplant** 1996 Oct;18(4):767–76

Association of donor-derived host-reactive cytolytic and helper T cells with outcome following alternative donor T cell-depleted bone marrow transplantation. Keever-Taylor CA, et al. **Bone Marrow Transplant** 1997 May;19(10):1001–9

Response to measles, mumps and rubella vaccine in paediatric bone marrow transplant recipients. King SM, et al. **Bone Marrow Transplant** 1996 Apr;17(4):633–6

Humoral immunodeficiency in patients after bone marrow transplantation. Körholz D, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1123–30

Acute rejection of marrow grafts in patients transplanted from a partially mismatched related donor: clinical and immunologic characteristics. Lamb LS Jr, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1021–7

Immune status and the immune response to hepatitis B virus vaccine in thalassemic patients after allogeneic bone marrow transplantation. Li Volti S, et al. **Bone Marrow Transplant** 1997 Jan;19(2):157–60

Anti-host cytotoxic T cells of bone marrow transplant recipients with or without graft-versus-host disease are equally sensitive to cyclosporin A. Liem LM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):73–8

How much benefit can be expected from matching for minor antigens in allogeneic marrow transplantation? Martin PJ. **Bone Marrow Transplant** 1997 Jul;20(2):97–100

Treatment of leukemia with partially matched related bone marrow transplantation. Munn RK, et al. **Bone Marrow Transplant** 1997 Mar;19(5):421–7

Th1 and Th2 cytokine responses after measles antigen stimulation in vitro in bone marrow transplant patients: response to measles vaccination. Pauksen K, et al. **Bone Marrow Transplant** 1997 Aug;20(4):317–23

Donor-derived plasma transferrin facilitates the engraftment of xenogeneic (rat) bone marrow in irradiated mice [published erratum appears in Bone Marrow Transplant 1996 Dec;18(6):1201] Pierpaoli W, et al. **Bone Marrow Transplant** 1996 Jul;18(1):203–7

Antibodies to interferon-alpha: a novel type of autoantibody occurring after allogeneic bone marrow transplantation. Prümmer O, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):617–23

Serum HLA class I antigen levels in allogeneic bone marrow transplantation: a possible marker of acute GVHD. Puppo F, et al. **Bone Marrow Transplant** 1996 May;17(5):753–8

Eliminating graft-versus-host potential from T cell immunotherapeutic populations. Rencher SD, et al. **Bone Marrow Transplant** 1996 Aug;18(2):415–20

Effects of non-major histocompatibility antigens on acute graft-versus-host reaction after allogeneic bone marrow transplantation. Takayanagi T, et al. **Bone Marrow Transplant** 1997 Aug;20(4):297–304

Soluble IL-6 receptors (sIL-6R) in hematological patients receiving immunotherapy with IL-2/IFN-alpha or donor lymphocytes following bone marrow transplantation. Toren A, et al. **Bone Marrow Transplant** 1996 Oct; 18(4):721–4

Management of lymphoma recurrence after allogeneic transplantation: the relevance of graft-versus-lymphoma effect. van Besien KW, et al. **Bone Marrow Transplant** 1997 May;19(10):977–82

Complete donor T cell chimerism is accomplished in patients transplanted with bone marrow grafts containing a fixed low number of T cells. Verdonck LF, et al. **Bone Marrow Transplant** 1996 Aug;18(2):389–95

Mixed erythrocyte chimerism: implications for tolerance of the donor immune system to recipient non-ABO system red cell antigens. Wennerberg A, et al. **Bone Marrow Transplant** 1996 Aug;18(2):433–5

CMV infection after allogeneic bone marrow transplantation is associated with the occurrence of various autoantibodies and monoclonal gammopathies. Hebart H, et al. **Br J Haematol** 1996 Oct;95(1):138–44

Induction of graft versus leukemia effects by cell-mediated lymphokine-activated immunotherapy after syngeneic bone marrow transplantation in murine B cell leukemia. Weiss L, et al. **Cancer Immunol Immunother** 1996 Oct; 43(2):103–8

Graft-versus-leukemia effect of allogeneic bone marrow transplantation and donor mononuclear cell infusions. Porter DL, et al. **Cancer Treat Res** 1997;77:57–85 (127 ref.)

Can bone marrow-derived thymic stromal cells mediate the positive selection of class I-restricted T cells? Fort MM, et al. **Cell Immunol** 1996 Jul 10;171(1):74–9

Allorecognition by murine natural killer cells: studies with bone marrow transplants and lysis of T lymphoblasts. Liu J, et al. **Chem Immunol** 1996;64:164–80 (23 ref.)

Reconstruction of the immune system after unrelated or partially matched T-cell-depleted bone marrow transplantation in children: functional analyses of lymphocytes and correlation with immunophenotypic recovery following transplantation. Kook H, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):96–103

Cytomegalovirus disease occurring before engraftment in marrow transplant recipients [see comments] Limaye AP, et al. **Clin Infect Dis** 1997 May;24(5):830–5. Comment in: Clin Infect Dis 1997 May;24(5):841–2.

Tetracycline derivatives, alternative treatment for nocardiosis in transplanted patients. Leitersdorf I, et al. **Clin Nephrol** 1997 Jul;48(1):48–51

Marrow transplants from unrelated donors. Hansen JA, et al. **Clin Transpl** 1995;:279–89

Allogeneic cell-mediated immunotherapy using donor lymphocytes for prevention of relapse in patients treated with allogeneic bone marrow transplantation for hematological malignancies. Naparstek E, et al. **Clin Transpl** 1996;:281-90

Utility of DRB1 subtyping: a case report. Lower FE, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):598-600

The graft-versus-leukemia effect. Barrett J, et al. **Curr Opin Oncol** 1996 Mar;8(2):89-95

Bone marrow transplantation from unrelated donors. Gajewski J, et al. **Curr Opin Oncol** 1996 Mar;8(2):84-8 (35 ref.)

Adoptive immunotherapy with donor lymphocyte transfusions. Kolb HJ, et al. **Curr Opin Oncol** 1997 Mar; 9(2):139-45 (53 ref.)

Graft-versus-host disease [see comments] Marcellus DC, et al. **Curr Opin Oncol** 1997 Mar;9(2):131-8 (41 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115-6.

Immunogenetic analysis of successful and rejected bone marrow grafts within one family. Martinez OP, et al. **Eur J Immunogenet** 1994 Oct;21(5):365-72

Correction of Fas (CD95) deficiency by haploidentical bone marrow transplantation. Benkerrou M, et al. **Eur J Immunol** 1997 Aug;27(8):2043-7

Stimulation of immune reconstitution by interleukin-7 after syngeneic bone marrow transplantation in mice [published erratum appears in Exp Hematol 1996 Nov;24(13):1540] Abdul-Hai A, et al. **Exp Hematol** 1996 Oct;24(12):1416-22

National Heart, Lung, and Blood Institute (NHLBI) workshop on the importance of minor histocompatibility antigens in marrow transplantation. September 16-17, 1996; Bethesda, Maryland. Beatty PG. **Exp Hematol** 1997 Jun; 25(6):548-58

Risk of donor lymphocyte infusions following allogeneic bone marrow transplantation. van Bekkum DW, et al. **Exp Hematol** 1997 Jun;25(6):478-80

T cell receptor clonal diversity following allogeneic marrow grafting. Akatsuka Y, et al. **Hum Immunol** 1996 Jun-Jul; 48(1-2):125-34

Minor histocompatibility antigens: from T cell recognition to peptide identification [editorial] Goulmy E. **Hum Immunol** 1997 Apr 15;54(1):8-14 (63 ref.)

T-cell repertoire complexity after allogeneic bone marrow transplantation. Roux E, et al. **Hum Immunol** 1996 Jun-Jul; 48(1-2):135-8

HLA gene haplotype frequencies in bone marrow donors worldwide registries. Schipper RF, et al. **Hum Immunol** 1997 Jan;52(1):54-71

Lack of correlation of MLC reactivity with acute graft-versus-host disease and mortality in unrelated donor bone marrow transplantation. Segall M, et al. **Hum Immunol** 1996 Aug;49(1):49-55

The effect of erythropoietin administration on murine bone marrow chimeras. Mann RA, et al. **Immunol Lett** 1996 Jan; 49(1-2):15-20

Allorecognition by murine natural killer cells: lysis of T-lymphoblasts and rejection of bone-marrow grafts. George T, et al. **Immunol Rev** 1997 Feb;155:29-40 (53 ref.)

Human minor histocompatibility antigens: new concepts for marrow transplantation and adoptive immunotherapy. Goulmy E. **Immunol Rev** 1997 Jun;157:125-40 (165 ref.)

Immunological reconstitution following bone marrow transplantation. Parkman R, et al. **Immunol Rev** 1997 Jun; 157:73-8 (54 ref.)

Development and function of T lymphocytes and natural killer cells after bone marrow transplantation of severely immunodeficient mice. Wang B, et al. **Immunol Rev** 1997 Jun;157:53-60 (50 ref.)

Immune modulation in bone marrow transplant. Kulkarni S, et al. **Indian J Med Sci** 1996 May;50(5):177-82

IgE allotypes in sera of mice with autoimmune diseases and in mice with graft-versus-host disease after transfusion or bone marrow transplantation. Miyajima H, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):152-5

Ly-49 G2+ NK cells are responsible for mediating the rejection of H-2b bone marrow allografts in mice. Raziuddin A, et al. **Int Immunol** 1996 Dec;8(12):1833-9

The appearance of Thy-1- donor T cells in the peripheral circulation 3-6 weeks after bone marrow transplantation suggests an extrathymic origin. Zhong RK, et al. **Int Immunol** 1996 Feb;8(2):171-6

Liver transplantation without immunosuppression: future perspectives. Selvaggi G, et al. **Ital J Gastroenterol** 1996 May;28(4):246-9

Xenotransplantation of baboon bone marrow cells: a historical review of the protocols as a possible treatment modality for HIV/AIDS. Relf MV. **J Assoc Nurses AIDS Care** 1996 Sep-Oct;7(5):27-35 (38 ref.)

Allogeneic peripheral blood stem cell transfusion from human leukocyte antigen-mismatched sibling for the treatment of engraftment failure after bone marrow transplantation for severe aplastic anemia. Takamatsu Y, et al. **J Clin Apheresis** 1997;12(2):100-2

Immunologic and hematopoietic effects of CD40 stimulation after syngeneic bone marrow transplantation in mice. Funakoshi S, et al. **J Clin Invest** 1997 Feb 1;99(3):484-91

Systemic T cell-independent tumor immunity after transplantation of universal receptor-modified bone marrow into SCID mice. Hege KM, et al. **J Exp Med** 1996 Dec 1;184(6):2261-9

Transgenic expression of the Ly49A natural killer cell receptor confers class I major histocompatibility complex (MHC)-specific inhibition and prevents bone marrow allograft rejection. Held W, et al. **J Exp Med** 1996 Nov 1;184(5):2037-41

Increased frequency of TCR gamma delta + T cells in disease-free survivors following T cell-depleted, partially mismatched, related donor bone marrow transplantation for leukemia. Lamb LS Jr, et al. **J Hematother** 1996 Oct; 5(5):503-9

Blockade of CD40 ligand-CD40 interaction impairs CD4+ T cell-mediated alloreactivity by inhibiting mature donor T cell expansion and function after bone marrow transplantation. Blazar BR, et al. **J Immunol** 1997 Jan 1; 158(1):29-39

CD28/B7 interactions are required for sustaining the graft-versus-leukemia effect of delayed post-bone marrow transplantation splenocyte infusion in murine recipients of myeloid or lymphoid leukemia cells. Blazar BR, et al. **J Immunol** 1997 Oct 1;159(7):3460-73

Durable mixed allogeneic chimerism and tolerance by a nonlethal radiation-based cytoreductive approach. Colson YL, et al. **J Immunol** 1996 Oct 1;157(7):2820-9

Inhibition of graft-versus-host disease. Use of a T cell-controlled suicide gene. Helene M, et al. **J Immunol** 1997 Jun 1;158(11):5079-82

Patterns of hemopoietic reconstitution in nonobese diabetic mice: dichotomy of allogeneic resistance versus competitive advantage of disease-resistant marrow. Kaufman CL, et al. **J Immunol** 1997 Mar 1;158(5):2435-42

TNF receptor p55 controls early acute graft-versus-host disease. Speiser DE, et al. **J Immunol** 1997 Jun 1; 158(11):5185-90

Restricted TCR repertoire and long-term persistence of donor-derived antigen-experienced CD4+ T cells in allogeneic bone marrow transplantation recipients. Vavassori M, et al. **J Immunol** 1996 Dec 15;157(12):5739-47

Class I-deficient hemopoietic cells and nonhemopoietic cells dominantly induce unresponsiveness of natural killer cells to class I-deficient bone marrow cell grafts. Wu MF, et al. **J Immunol** 1997 Feb 15;158(4):1628-33

Chimerism analysis after allogeneic bone marrow transplantation with nonradioactive RFLP and PCR-AFLP using the same DNA. Schreiner T, et al. **J Immunol Methods** 1996 Sep 13;196(1):93-6

Use of regression analysis and flow cytometry for determining levels of mixed semiallogeneic immune chimerism. Ramsamooj R, et al. **J Invest Surg** 1996 Jul-Aug;9(4):273-81

SCID mouse as a model for transplantation studies. Renz JF, et al. **J Surg Res** 1996 Sep;65(1):34-41

Hepatitis B virus clearance by transplantation of bone marrow from hepatitis B immunised donor [letter] [see comments] Brugger SA, et al. **Lancet** 1997 Apr 5; 349(9057):996-7. Comment in: Lancet 1997 May 31;349(9065):1626-7.

Is vaccination of donor adequate for clearance of hepatitis B virus after bone-marrow transplantation? [letter; comment] Lau GK, et al. **Lancet** 1997 May 31; 349(9065):1626-7. Comment on: Lancet 1997 Apr 5;349(9057):996-7.

Unrelated donor bone marrow transplantation for hematological malignancies-current status. Davies SM, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):221-6 (19 ref.)

Aspects concerning busulfan pharmacokinetics and bioavailability. Hassan M, et al. **Leuk Lymphoma** 1996 Aug; 22(5-6):395-407 (130 ref.)

Graft-versus-leukemia effect and its clinical implications. Imamura M, et al. **Leuk Lymphoma** 1996 Nov; 23(5-6):477-92 (163 ref.)

Pilocarpine hydrochloride for symptomatic relief of xerostomia due to chronic graft-versus-host disease or total-body irradiation after bone-marrow transplantation for hematologic malignancies. Singhal S, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):539-43

HLA and graft-versus-host disease: a population-based study of HLA phenotypes of Jewish and Arabic bone marrow transplanted patients in Israel. Bishara A, et al. **Leuk Res** 1997 Feb;21(2):111-8

Granulocyte-macrophage colony-stimulating factor dependent monocyte-mediated cytotoxicity post-autologous bone marrow transplantation. Nagler A, et al. **Leuk Res** 1996 Aug;20(8):637-43

Failure of cyclosporine to induce graft-vs-host disease or graft-vs-leukemia after syngeneic bone marrow transplantation in mice. Singhal S, et al. **Leuk Res** 1996 Nov-Dec;20(11-12):941-6

Consensus conference on unrelated donor bone marrow transplantation: its use in leukaemias and allied disorders. Royal College of Physicians of Edinburgh, 29 and 30 October 1996 [letter] **Leukemia** 1997 Mar;11(3):451-2 (0 ref.)

Graft versus leukemia (GVL) in the therapy of acute lymphoblastic leukemia (ALL). Appelbaum FR. **Leukemia** 1997 May;11 Suppl 4:S15-7 (12 ref.)

HLA-identical sibling bone marrow transplants vs chemotherapy for acute myelogenous leukemia in first remission. Gale RP, et al. **Leukemia** 1996 Nov; 10(11):1687-91

Donor chimaerism is a strong indicator of disease free survival following bone marrow transplantation for chronic myeloid leukaemia. Gardiner N, et al. **Leukemia** 1997 Apr; 11 Suppl 3:512-5

A single course of remission reinduction chemotherapy for acute myelogenous leukemia relapsing after allogeneic bone marrow transplantation is complicated by graft-versus-host disease and followed by sustained complete remission. Vandenberghe P, et al. **Leukemia** 1997 Oct;11(10):1775-8

Increased rejection of murine allogeneic bone marrow in presensitized recipients. van Os R, et al. **Leukemia** 1997 Jul;11(7):1045-8

Aging of the recipients but not of the bone marrow donors enhances autoimmunity in syngeneic radiation chimeras. Doria G, et al. **Mech Ageing Dev** 1997 Apr;95(1-2):131-42

Autologous graft-versus-host disease [published erratum appears in Med Oncol 1996 Jun;13(2):132] Kennedy MJ, et al. **Med Oncol** 1995 Sep;12(3):149-56 (48 ref.)

Correction or transfer of immunodeficiency due to TNF-LT alpha deletion by bone marrow transplantation. Müller M, et al. **Mol Med** 1996 Mar;2(2):247-55

Natural killer cells in peripheral blood after autologous bone marrow transplantation: a combined phenotypic and functional study. Jorgensen H, et al. **Nat Immun** 1995; 14(3):164-72

Induction of high levels of allogeneic hematopoietic reconstitution and donor-specific tolerance without myelosuppressive conditioning. Sykes M, et al. **Nat Med** 1997 Jul;3(7):783-7

Bone marrow transplantation from unrelated volunteer donors. An overview [editorial] Busca A, et al. **Panminerva Med** 1997 Jun;39(2):71-7 (26 ref.)

Ultrastructural evidence of intestinal mucosal macrophage activation after bone marrow transplantation. Forbes GM, et al. **Pathology** 1996 Aug;28(3):251-4

Graft-versus-host-disease-associated lymphoid hypoplasia and B cell dysfunction is dependent upon donor T cell-mediated Fas-ligand function, but not perforin function. Baker MB, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1366-71

Natural killer cell acceptance of H-2 mismatch bone marrow grafts in transgenic mice expressing HLA-Cw3 specific killer cell inhibitory receptor. Cambiaggi A, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8088-92

Generation of NK1.1+ T cell antigen receptor alpha/beta+ thymocytes associated with intact thymic structure [published erratum appears in Proc Natl Acad Sci U S A 1997 May 27;94(11):5979] Nakagawa K, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2472-7

Definition of HLA-DQ as a transplantation antigen. Petersdorf EW, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15358-63

In vivo depletion of host CD4+ and CD8+ cells permits engraftment of bone marrow stem cells and tolerance induction with minimal conditioning. Exner BG, et al. **Surgery** 1997 Aug;122(2):221-7

Structural definition of the A*74 group: implications for matching in bone marrow transplantation with alternative donors. Blaszcyk R, et al. **Tissue Antigens** 1996 Sep; 48(3):205-9

Evaluation of the mixed lymphocyte culture (MLC) assay as a method for selecting unrelated donors for marrow transplantation. Mickelson EM, et al. **Tissue Antigens** 1996 Jan;47(1):27-36

Large-scale DRB and DQB1 oligonucleotide typing for the NMDP registry: progress report from year 2. Ng J, et al. **Tissue Antigens** 1996 Jan;47(1):21-6

Identification of a new allele, DRB1*1204, during routine PCR-SSOP typing of National Marrow Donor Program volunteers. Rodriguez SG, et al. **Tissue Antigens** 1996 Sep; 48(3):221-3

Cytotoxic T cell activity after HLA-mismatch bone marrow transplantation. Møller J, et al. **Tokai J Exp Clin Med** 1996 Feb;21(1):19-23

Immunodeficiency after allogeneic bone marrow transplantation in man: the role of antigen presenting cells. Møller J, et al. **Tokai J Exp Clin Med** 1996 Feb;21(1):13-7

Facilitation of DLA-incompatible marrow grafts by donor-specific serum transferrin? Deeg HJ, et al. **Transpl Immunol** 1996 Jun;4(2):113-6

Long-term engraftment of precultured post-5-fluorouracil allogeneic marrow in mice conditioned with a nonmyeloablative regimen: relevance for a gene therapy approach to tolerance induction. Hayashi H, et al. **Transpl Immunol** 1996 Mar;4(1):86-90

An anti-CD44 antibody does not enhance engraftment of DLA-identical marrow after low-dose total body irradiation. Sandmaier BM, et al. **Transpl Immunol** 1996 Dec;4(4):271-4

Strain-dependent differences in prolongation of rat cardiac allograft survival after intrathymic injection of donor bone marrow and ALS treatment. Walker KG, et al. **Transpl Immunol** 1996 Jun;4(2):177-9

F1 hybrid resistance and self-tolerance in graft-versus-host mice. Baron C, et al. **Transplant Proc** 1996 Oct;28(5):2921-2

A study of tolerance in a concordant xenograft model. Bartholomew AM, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):923-4

LF 08-0299 protects murine recipients of minor antigen disparate donor bone marrow from lethal graft-versus-host disease. Bruley-Rosset M, et al. **Transplant Proc** 1996 Dec; 28(6):3114-6

Donor bone marrow infusion in simultaneous pancreas/kidney transplantation with OKT3 induction: evidence for augmentation of chimerism. Burke GW, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1207-8

Separation of major histocompatibility complex (MHC) and non-MHC gene effects in the development of T cell subsets in relation to susceptibility to cyclosporine A-induced autoimmunity. Damoiseaux JG, et al. **Transplant Proc** 1997 May;29(3):1690-1

Identification of a novel rat B cell subset in the peritoneal cavity of xenogeneic rat to mouse SCID chimeras. Deenen GJ, et al. **Transplant Proc** 1997 May;29(3):1752-3

Role of natural killer cells and classical (RT1.A) vs nonclassical (RT1.C) class I molecules in acute bone marrow allograft rejection in lethally irradiated rats. Engh E, et al. **Transplant Proc** 1996 Dec;28(6):3265-6

PCR-flow analysis used to detect the levels of chimerism in peripheral blood of bone-marrow infused organ allograft recipients at the time of rejection episodes. Garcia-Morales R, et al. **Transplant Proc** 1997 Jun;29(4):2179-80

T-cell clonotype assay as immunological monitoring in renal and bone marrow transplantations. Hagihara M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):716-8

Extended skin allo- and xenograft survival in mice treated with rapamycin, antilymphocyte serum, and donor-specific bone marrow transfusion. Hale DA, et al. **Transplant Proc** 1996 Dec;28(6):3269

Specificity of effector mechanisms in syngeneic graft-vs-host disease: recognition of the MHC class II invariant chain peptide (CLIP). Hess A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):725-7

Characterization of the V alpha/V beta autoreactive T-cell repertoire in syngeneic graft-vs-host disease. Hess A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):709-11

Differential effects of cyclosporin-A and rapamycin on in vivo thymocyte maturation. Homma M, et al. **Transplant Proc** 1997 May;29(3):1743-4

Infusion of class II DIM donor bone marrow enhances islet allograft survival in low-dose CyA treated dogs. Kenyon NS, et al. **Transplant Proc** 1997 Jun;29(4):2189

Possible role of preformed natural antibodies in preventing bone marrow engraftment in a discordant xenogeneic species combination (human-to-mouse). Kong SS, et al. **Transplant Proc** 1997 Jun;29(4):2069-70

Apheresis and column absorption for specific removal of Gal-alpha-1,3 Gal natural antibodies in a pig-to-baboon model. Kozlowski T, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):961

Bone marrow engraftment and GVHD following bone marrow transplantation across a concordant xenogeneic barrier (mouse to rat). Li H, et al. **Transplant Proc** 1997 Jun;29(4):2190-1

A low incidence of grade II to IV acute GVHD, but high mortality from infection using HLA-A, -B, and -DR-identical unrelated donors and immunosuppression with ATG, cyclosporine, and methotrexate. Mattsson J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):735-6

CD34+ stem cell augmentation of allogeneic, elutriated marrow grafts improves engraftment but cyclosporine A is still required to reduce GVHD and morbidity. Noga SJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):728-32

Prolongation of hamster-to-rat liver xenograft survival by donor bone marrow augmentation. Ohdan H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):925-7

Nonspecific rapid elimination of transplanted allogeneic bone marrow cells. Olszewski WL, et al. **Transplant Proc** 1997 Jun;29(4):2073-4

Clonal deletion is one mechanism responsible for tolerance in mixed hematopoietic chimeras. Orloff SL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1198-200

Effects of rapamycin after syngeneic bone marrow transplantation in irradiated mice. Quesniaux V, et al. **Transplant Proc** 1996 Dec;28(6):3065-71

Augmentation of natural chimerism with donor bone marrow in orthotopic liver recipients. Rao AS, et al. **Transplant Proc** 1996 Oct;28(5):2959-65

Induction of peripheral chimerism in an allogenic model of small bowel transplantation with intrathymic inoculation of donor-derived cells. Sanchez-Movilla A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1067-9

Immunoregulation rather than immunosuppression for prevention and treatment of autoimmune disorders. Slavin S. **Transplant Proc** 1996 Dec;28(6):3021-2

Extent of chimerism determines the mode of tolerance in mixed bone marrow chimeras. Taniguchi H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1193-5

Induction of donor-specific hyporeactivity in augmented microchimerism in rat liver transplantation followed by donor bone marrow. Tashiro H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1196-7

Role of in situ IL-2r and TGF-beta expression in tolerant vascularized bone marrow (limb) transplant chimeras. Tatem LD, et al. **Transplant Proc** 1997 Jun;29(4):2194-5

Efficacy of fludarabine as an immunosuppressor for bone marrow transplantation conditioning: preliminary results. Terenzi A, et al. **Transplant Proc** 1996 Dec;28(6):3101

Distribution of the dendritic cell in human organs and the incidence of GVHD. Wakabayashi T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):737-8

Mechanism of tolerance following class II gene transduction of autologous swine bone marrow. Yasumoto A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1132

Persistence of donor cells and incidence of graft-versus-host disease after simultaneous small bowel and bone marrow transplantation. Ye Q, et al. **Transplant Proc** 1996 Oct; 28(5):2453

Quantitative analysis of T helper 1, T helper 2, and inflammatory cytokine expression in patients after allogeneic bone marrow transplantation: relationship with the occurrence of acute graft-versus-host disease. Carayol G, et al. **Transplantation** 1997 May 15;63(9):1307-13

Use of CTLA4-Ig in combination with conventional immunosuppressive agents to prolong allograft survival. Hale DA, et al. **Transplantation** 1997 Sep 27;64(6):897-900

Superiority of sirolimus (rapamycin) over cyclosporine in augmenting allograft and xenograft survival in mice treated with antilymphocyte serum and donor-specific bone marrow. Hale DA, et al. **Transplantation** 1997 Feb 15; 63(3):359-64

Striking augmentation of hematopoietic cell chimerism in noncytoablated allogeneic bone marrow recipients by FLT3 ligand and tacrolimus. Iyengar AR, et al. **Transplantation** 1997 May 15;63(9):1193-9

Adoptive immunotherapy in canine chimeras. Kolb HJ, et al. **Transplantation** 1997 Feb 15;63(3):430-6

A clinical phase I/II study of recombinant human interleukin-1 receptor in glucocorticoid-resistant graft-versus-host disease. McCarthy PL Jr, et al. **Transplantation** 1996 Sep 15;62(5):626-31

Modulatory effects of human donor bone marrow cells on allogeneic cellular immune responses. Mathew JM, et al. **Transplantation** 1997 Mar 15;63(5):686-92

HLA-DPB1 mismatch at position 69 is associated with high helper T lymphocyte precursor frequencies in unrelated bone marrow transplant pairs. Potolicchio I, et al. **Transplantation** 1996 Nov 15;62(9):1347-52

Graft hyporeactivity induced by donor-specific bone marrow. Rigney ME, et al. **Transplantation** 1996 Dec 15; 62(11):1601-5

Recognition of major histoincompatibilities after transplantation with marrow from HLA closely matched donors. Rufer N, et al. **Transplantation** 1997 Jun 27; 63(12):1833-7

Sinus arrest during tacrolimus (FK506) and digitalis treatment in a bone marrow transplant recipient [letter] Sawabe T, et al. **Transplantation** 1997 Jul 15;64(1):182-3

Use of gene therapy to suppress the antigen-specific immune responses in mice to an HLA antigen. Schumacher IK, et al. **Transplantation** 1996 Sep 27;62(6):831-6

Interleukin-1 alpha-mediated promotion of long-term alloengraftment and short-term neutrophil expansion does not require the presence of either donor or host T cells. Vallera DA, et al. **Transplantation** 1996 Sep 15;62(5):636-42

Donor helper T-cell frequencies as predictors of acute graft-versus-host disease in bone marrow transplantation between HLA-identical siblings. Weston LE, et al. **Transplantation** 1997 Sep 27;64(6):836-41

Delaying transplantation after total body irradiation is a simple and effective way to reduce acute graft-versus-host disease mortality after major H2 incompatible transplantation. Xun CQ, et al. **Transplantation** 1997 Jul 27;64(2):297-302

Strategies for determining HLA compatibility in related donor bone marrow transplantation. Zachary AA, et al. **Transplantation** 1997 Sep 27;64(6):828-35

Consensus statement from the Consensus Conference on Unrelated-Donor Bone Marrow Transplants--29 and 30 October 1996. Their use in leukaemias and allied disorders. Franklin IM. **Vox Sang** 1997;73(1):52-3 (0 ref.)

Reactivation of recipient antibody to blood cell antigens soon after allogeneic bone marrow transplantation. Wernet D, et al. **Vox Sang** 1996;71(4):212-5

[Significance of interleukin 10 for acute graft versus host disease in children and adolescents after allogenic bone marrow transplantation] Körholz D, et al. **Klin Padiatr** 1996 Jul-Aug;208(4):141-4 (Eng. Abstr.) **(Ger)**

[Count of major lymphocyte subsets and their mitogenic response after lethal irradiation and transplantation of syngeneic bone marrow from young and old donors] Butenko GM, et al. **Biull Eksp Biol Med** 1996 Sep; 122(9):301-4 **(Rus)**

[Assessment of secondary disease based on HLA expression in the plasma of an allogeneic bone marrow recipient] Zotnikov EA, et al. **Biull Eksp Biol Med** 1995 Dec; 120(12):596-8 **(Rus)**

[Immunochemical monitoring after bone marrow transplantation] Uvarov MA, et al. **Ter Arkh** 1996; 68(7):14-7 **(Rus)**

[Immunologic monitoring and immune reconstitution in recipients of allogeneic bone marrow] Bubnova LN, et al. **Vopr Onkol** 1996;42(4):36-9 (Eng. Abstr.) **(Rus)**

LEGISLATION & JURISPRUDENCE

Challenging denial of coverage for innovative therapy. Brushwood DB. **Am J Health Syst Pharm** 1997 Mar 1; 54(5):572-4

METHODS

Treatment of adrenoleukodystrophy with bone marrow transplantation. Malm G, et al. **Acta Paediatr** 1997 May; 86(5):484-92

Irradiated blood components [letter; comment] Benson K, et al. **Am J Clin Pathol** 1997 Feb;107(2):251; discussion 253-4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6-11.

Induced healing of aneurysmal bone cysts by demineralized bone particles. A report of two cases. Delloye C, et al. **Arch Orthop Trauma Surg** 1996;115(3-4):141-5

High levels of engraftment with a single infusion of bone marrow cells into normal unprepared mice [published erratum appears in Biol Blood Marrow Transplant 1996 Feb;2(1):54] Ramshaw HS, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):74-80

A novel method of myeloablation to enhance engraftment of adult bone marrow cells in newborn mice. Yoder MC, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):59-67

Self-setting hydroxyapatite cement as a carrier for bone-forming cells. Yoshikawa T, et al. **Biomed Mater Eng** 1996;6(5):345-51

Neutropenia in allogeneic marrow transplant recipients receiving ganciclovir for prevention of cytomegalovirus disease: risk factors and outcome. Salzberger B, et al. **Blood** 1997 Sep 15;90(6):2502-8

Proposal on RBC transfusion guidelines for BMT [letter] Aoki Y. **Bone Marrow Transplant** 1996 Jul;18(1):261

Transplant of bone marrow and cord blood hematopoietic stem cells in pediatric practice, revisited according to the fundamental principles of bioethics. Burgio GR, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1163-8 (50 ref.)

Efficacy and kinetics of bone marrow processing and enrichment of haematopoietic progenitor cells (HPC) by a large-volume apheresis procedure. Cassens U, et al. **Bone Marrow Transplant** 1997 Apr;19(8):835-40

Autografting in Philadelphia (Ph)+ chronic myeloid leukaemia using cultured marrow: an update of a pilot study. Coutinho LH, et al. **Bone Marrow Transplant** 1997 May;19(10):969-76

Feasibility and timing of unrelated donor identification for patients with ALL. Davies SM, et al. **Bone Marrow Transplant** 1996 May;17(5):737-40

Nephroprotective effect of cilastatin in allogeneic bone marrow transplantation. Results from a retrospective analysis. Gruss E, et al. **Bone Marrow Transplant** 1996 Oct; 18(4):761-5

Association of donor-derived host-reactive cytolytic and helper T cells with outcome following alternative donor T cell-depleted bone marrow transplantation. Keever-Taylor CA, et al. **Bone Marrow Transplant** 1997 May;19(10):1001-9

Autologous versus allogeneic BMT in AML: the European experience. Report of the EBMT--Pediatric Diseases Working Party. Klingebiel T, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:49-52 (12 ref.)

Cyclophosphamide/GM-CSF priming in autotransplant therapy for CML. McGlave P, et al. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S65-6

Specific depletion of alloreactivity against haplotype mismatched related individuals by a recombinant immunotoxin: a new approach to graft-versus-host disease prophylaxis in haploidentical bone marrow transplantation. Mavroudis DA, et al. **Bone Marrow Transplant** 1996 May; 17(5):793-9

Minimizing graft rejection in allogeneic T cell-depleted bone marrow transplantation. Rigden JP, et al. **Bone Marrow Transplant** 1996 Nov;18(5):913-9

Unrelated allogeneic bone marrow transplantation using high-dose busulfan and cyclophosphamide (BU-CY) for the preparative regimen. Sahebi F, et al. **Bone Marrow Transplant** 1996 May;17(5):685-9

Survival in first or second remission after lymphocyte-depleted transplantation for Philadelphia chromosome-positive CML in first chronic phase. Schattenberg A, et al. **Bone Marrow Transplant** 1997 Jun; 19(12):1205-12

Bone marrow harvesting using local anaesthesia and PCA-alfentanil: a feasible alternative to general or regional anaesthesia. Sim KM, et al. **Bone Marrow Transplant** 1996 Oct;18(4):787-90

Royal College of Physicians Consensus Conference on unrelated donor BMT: its use in leukaemias and allied disorders; 29-30 October 1996 [letter] **Br J Haematol** 1997 Feb;96(2):424-5

Successful treatment of HTLV-1-associated acute adult T-cell leukaemia lymphoma by allogeneic bone marrow transplantation. Borg A, et al. **Br J Haematol** 1996 Sep; 94(4):713-5

Successful engraftment of haploidentical stem cell transplant for familial haemophagocytic lymphohistiocytosis using both bone marrow and peripheral blood stem cells. Collins P, et al. **Br J Haematol** 1997 Mar;96(3):644-6

Unrelated donor bone marrow transplantation for children and adolescents with aplastic anaemia or myelodysplasia. Davies SM, et al. **Br J Haematol** 1997 Mar;96(4):749-56

Treatment of adults with acute lymphoblastic leukaemia in first bone marrow relapse: results of the ALL R-87 protocol. Giona F, et al. **Br J Haematol** 1997 Jun; 97(4):896-903

Splenic irradiation before bone marrow transplantation for chronic myeloid leukaemia. Chronic Leukaemia Working Party of the European Group for Blood and Marrow Transplantation (EBMT) [see comments] Gratwohl A, et al. **Br J Haematol** 1996 Dec;95(3):494-500. Comment in: Br J Haematol 1997 Apr;97(1):248-9.

Relapse of Philadelphia chromosome positive acute lymphoblastic leukaemia after marrow transplantation: sustained molecular remission after early and dose-escalating infusion of donor leucocytes. Keil F, et al. **Br J Haematol** 1997 Apr;97(1):161-4

BONE MARROW TRANSPLANTATION

Allogeneic blood or marrow transplantation for chronic lymphocytic leukaemia: timing of transplantation and potential effect of fludarabine on acute graft-versus-host disease. Khouri IF, et al. **Br J Haematol** 1997 May; 97(2):466-73

Unrelated donor bone marrow transplantation for children with relapsed acute lymphoblastic leukaemia in second complete remission. Oakhill A, et al. **Br J Haematol** 1996 Sep;94(3):574-8

A comparison of vincristine and doxorubicin infusional chemotherapy with methylprednisolone (VAMP) with the addition of weekly cyclophosphamide (C-VAMP) as induction treatment followed by autografting in previously untreated myeloma. Raje N, et al. **Br J Haematol** 1997 Apr;97(1):153-60

Current status of allogeneic transplantation for haemoglobinopathies. Roberts I. **Br J Haematol** 1997 Jul; 98(1):1-7 (55 ref.)

Intermediate-dose busulphan before autografting for advanced-phase chronic myeloid leukaemia. Rule SA, et al. **Br J Haematol** 1996 Sep;94(4):694-8

Long-term follow-up of leukaemia patients after related cryopreserved allogeneic bone marrow transplantation. Stockschläder M, et al. **Br J Haematol** 1997 Feb; 96(2):382-6

Allogeneic bone marrow transplantation versus chemotherapy in high-risk childhood acute lymphoblastic leukaemia in first remission. Associazione Italiana di Ematologia ed Oncologia Pediatrica (AIEOP) and the Gruppo Italiano Trapianto di Midollo Osseo (GITMO). Uderzo C, et al. **Br J Haematol** 1997 Feb;96(2):387-94

PCR-positivity in harvested bone marrow predicts relapse after transplantation with autologous purged bone marrow in children in second remission of precursor B-cell acute leukaemia. Vervoordeldonk SF, et al. **Br J Haematol** 1997 Feb;96(2):395-402

Splenic irradiation before bone marrow transplantation for chronic myeloid leukaemia [letter; comment] Vickers M. **Br J Haematol** 1997 Apr;97(1):248-9. Comment on: Br J Haematol 1996 Dec;95(3):494-500.

Hepatic GVHD after HLA-haploidentical bone marrow transplantation in children with severe combined immunodeficiency: the effect of ursodeoxycholic acid. Wulffraat NM, et al. **Br J Haematol** 1997 Mar;96(4):776-80

Allogeneic MHC-mismatched activated natural killer cells administered after bone marrow transplantation provide a strong graft-versus-leukaemia effect in mice. Zeis M, et al. **Br J Haematol** 1997 Mar;96(4):757-61

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Jul;5(2):369-75 (31 ref.)

The use of radiolabeled antibodies in bone marrow transplantation for hematologic malignancies. Matthews DC, et al. **Cancer Treat Res** 1997;77:121-39 (42 ref.)

The use of unrelated donors for bone marrow transplantation. Tricot G. **Cancer Treat Res** 1997;77:217-28 (32 ref.)

Two novel mutations in a Canadian family with aspartylglucosaminuria and early outcome post bone marrow transplantation. Laitinen A, et al. **Clin Genet** 1997 Mar;51(3):174-8

Unrelated-donor marrow transplants: the experience of the National Marrow Donor Program. Beatty PG, et al. **Clin Transpl** 1995;:271-7

Marrow transplants from unrelated donors. Hansen JA, et al. **Clin Transpl** 1995;:279-89

Purging: elimination of malignant cells from autologous blood or marrow transplants. Champlin R. **Curr Opin Oncol** 1996 Mar;8(2):79-83 (56 ref.)

Allogeneic stem cell transplantation for multiple myeloma. Bensinger WI, et al. **Hematol Oncol Clin North Am** 1997 Feb;11(1):147-57 (37 ref.)

Human minor histocompatibility antigens: new concepts for marrow transplantation and adoptive immunotherapy. Goulmy E. **Immunol Rev** 1997 Jun;157:125-40 (165 ref.)

Cellular immunotherapy and autologous transplantation for hematologic malignancy. Margolin KA, et al. **Immunol Rev** 1997 Jun;157:231-40 (83 ref.)

A comparison of single-dose and fractionated total-body irradiation on the development of pneumonitis following bone marrow transplantation [see comments] Morgan TL, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):61-6 . Comment in: Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):261-2.

The balancing act: pneumonitis vs. relapse in cytoreductive regimens containing total body irradiation [editorial; comment] Shank B. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):261-2. Comment on: Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):61-6.

The effects of chimeric cells following donor bone marrow infusions as detected by PCR-flow assays in kidney transplant recipients [published erratum appears in J Clin Invest 1997 May;99(9):2295] Garcia-Morales R, et al. **J Clin Invest** 1997 Mar 1;99(5):1118-29

A new limiting dilution culture system for the detection of T cell subsets in T cell-depleted marrow grafts. Kawanishi Y, et al. **J Hematother** 1996 Oct;5(5):485-95

Cord blood's role in cancer therapy awaits answers [news] Bankhead C. **J Natl Cancer Inst** 1997 Feb 5;89(3):190-1

Growth in children undergoing bone marrow transplantation after busulfan and cyclophosphamide conditioning. Shankar SM, et al. **J Pediatr Hematol Oncol** 1996 Nov; 18(4):362-6

Preclinical investigations that subserve efforts to employ bone marrow transplantation for rheumatoid or autoimmune diseases. Good RA, et al. **J Rheumatol Suppl** 1997 May; 48:5-12 (73 ref.)

Stem cell transplantation for severe autoimmune disorders, with special reference to rheumatic diseases. Marmont AM. **J Rheumatol Suppl** 1997 May;48:13-8 (48 ref.)

Detection of residual host cells in sex-mismatched bone marrow transplantation in various hematological diseases by fluorescence in situ hybridization. Arif M, et al. **Jpn J Cancer Res** 1997 Apr;88(4):420-6

Rationalizing autotransplant strategies for chronic myeloid leukemia. Daley GQ. **Leuk Lymphoma** 1996 May; 21(5-6):353-8 (39 ref.)

Variability in determination of body weight used for dosing busulphan and cyclophosphamide in adult patients: results of an international survey. Grigg A, et al. **Leuk Lymphoma** 1997 May;25(5-6):487-91

Allogeneic transplantation with CD34+-selected cells. Stockschläder M, et al. **Leuk Lymphoma** 1997 Mar; 25(1-2):145-51

Bone marrow transplantation using unrelated donors for haematological malignancies. Ringdén O. **Med Oncol** 1997 Mar;14(1):11-22 (116 ref.)

Survival in advanced Hodgkin's disease and non-Hodgkin's lymphoma. Rubin AD, et al. **N J Med** 1996 Oct;93(10):33-8

Analysis for recovery and loss of mononuclear cells and colony-forming units granulocyte-macrophage during ex vivo processing of autologous bone marrow. Schwella N, et al. **Vox Sang** 1996;70(3):132-8

[The second breath of transplantation (editorial)] Houssin D. **Ann Chir** 1996;50(10):847-52 **(Fre)**

[Up-to-date treatment of breast cancer. Myeloblastic chemotherapy and hematopoietic cell grafting] Jerusalem G. **Rev Med Liege** 1997 Feb;52(2):76-9 **(Fre)**

[Successful high-dose chemotherapy combined with autologous bone marrow transplantation in a case of refractory follicular lymphoma] Nagai T, et al. **Rinsho Ketsueki** 1997 Jun;38(6):513-9 (Eng. Abstr.) **(Jpn)**

MORTALITY

Predicting death in mechanically ventilated recipients of bone marrow transplants [letter] Hennessy BJ, et al. **Ann Intern Med** 1997 Jul 1;127(1):88

Allogeneic bone marrow transplantation in chronic lymphocytic leukemia [letter; comment] Rosner F. **Ann Intern Med** 1996 Nov 1;125(9):780. Comment on: Ann Intern Med 1996 Feb 1;124(3):311-5.

Leukocyte recovery and early treatment-related mortality after bone marrow transplantation [letter; comment] Mehta J, et al. **Blood** 1997 Jun 1;89(11):4237-8. Comment on: Blood 1996 Nov 15;88(10):4058-62.

Mortality hazard functions as related to neutropenia at different times after marrow transplantation [see comments] Offner F, et al. **Blood** 1996 Nov 15;88(10):4058-62. Comment in: Blood 1997 Jun 1;89(11):4237-8.

Early identification of patients at risk of death due to infections, hemorrhage, or graft failure after allogeneic bone marrow transplantation on the basis of the leukocyte counts. Mehta J, et al. **Bone Marrow Transplant** 1997 Feb; 19(4):349-55

Lack of correlation of MLC reactivity with acute graft-versus-host disease and mortality in unrelated donor bone marrow transplantation. Segall M, et al. **Hum Immunol** 1996 Aug;49(1):49-55

Symptom distress, coping style and biological variables as predictors of survival after bone marrow transplantation. Molassiotis A, et al. **J Psychosom Res** 1997 Mar; 42(3):275-85

[A nonparametric estimation of survival curve with interval censored data] Yuasa H, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1303-10 (Eng. Abstr.) **(Jpn)**

NURSING

Evaluation of burnout and job satisfaction in marrow transplant nurses. Molassiotis A, et al. **Cancer Nurs** 1996 Oct;19(5):360-7

Anxiety, needs, and coping in family members of the bone marrow transplant patient. Wochna V. **Cancer Nurs** 1997 Aug;20(4):244-50 (18 ref.)

Therapeutic play and bone marrow transplantation. Kuntz N, et al. **J Pediatr Nurs** 1996 Dec;11(6):359-67

Comparison of central venous catheter dressings in bone marrow transplant recipients. Brandt B, et al. **Oncol Nurs Forum** 1996 Jun;23(5):829-36

A daily flowsheet for an outpatient bone marrow transplant treatment center. Burns JM, et al. **Oncol Nurs Forum** 1996 Sep;23(8):1313-6

Understanding the caring relationship during marrow transplantation: family caregivers and healthcare professionals. Compton K, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1428-32 (16 ref.)

Educational interventions for family caregivers during marrow transplantation. McDonald JC, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1432-9 (37 ref.)

Patients and caregivers benefit from transplantation classes. Stoll T. **Oncol Nurs Forum** 1997 Jun;24(5):803

Guidebook helps patients on their journey through transplantation. Tierney DK. **Oncol Nurs Forum** 1997 Jun; 24(5):803

PATHOLOGY

Kinetic evidence of the regeneration of multilineage hematopoiesis from primitive cells in normal human bone marrow transplanted into immunodeficient mice. Cashman JD, et al. **Blood** 1997 Jun 15;89(12):4307-16

Kinetics of central nervous system microglial and macrophage engraftment: analysis using a transgenic bone marrow transplantation model. Kennedy DW, et al. **Blood** 1997 Aug 1;90(3):986-93

Acquired ciliary abnormalities of nasal mucosa in marrow recipients. Cordonnier C, et al. **Bone Marrow Transplant** 1996 Apr;17(4):611-6

Monitoring and prognostic evaluation of sex-mismatched bone marrow transplantation by competitive PCR on Y chromosome sequences. Patri S, et al. **Bone Marrow Transplant** 1996 Apr;17(4):625-32

Deficient reconstitution of early progenitors after allogeneic bone marrow transplantation. Podestà M, et al. **Bone Marrow Transplant** 1997 May;19(10):1011-7

Indicators of haematopoietic recovery after bone marrow transplantation: the role of reticulocyte measurements. d'Onofrio G, et al. **Clin Lab Haematol** 1996 Dec;18 Suppl 1:45-53

Reticulocyte recovery is faster in allogeneic and autologous peripheral blood stem cell transplantation than in bone marrow transplantation [letter] Santamaria A, et al. **Eur J Haematol** 1997 May;58(5):362-4

Alterations in the progenitor cell population follow recovery from myeloablative therapy and bone marrow transplantation. Novitzky N, et al. **Exp Hematol** 1997 Jun; 25(6):471-7

Role of cytoprotective mechanisms in the photochemical purging of autologous bone marrow grafts. Yamazaki T, et al. **Exp Hematol** 1997 Jul;25(7):629-37

Histopathology of bone marrow after allogeneic bone marrow transplantation for chronic myeloid leukaemia. Rousselet MC, et al. **Pathol Res Pract** 1996 Aug; 192(8):790-5

Donor leukocyte infusions in the treatment of chronic myeloid leukemia in relapse post bone marrow transplantation. Hill GR, et al. **Pathology** 1996 Jan; 28(1):51-3

Posttransplant lymphoproliferative disorders: summary of Society for Hematopathology Workshop. Harris NL, et al. **Semin Diagn Pathol** 1997 Feb;14(1):8-14

Nonspecific rapid elimination of transplanted allogeneic bone marrow cells. Olszewski WL, et al. **Transplant Proc** 1997 Jun;29(4):2073-4

Evidence for the presence of multilineage chimerism and progenitors of donor dendritic cells in the peripheral blood of bone marrow-augmented organ transplant recipients. Rugeles MT, et al. **Transplantation** 1997 Sep 15; 64(5):735-41

PHYSIOLOGY

A phase II trial of autologous bone marrow transplantation (ABMT) in acute leukemia with edelfosine purged bone marrow. Vogler WR, et al. **Adv Exp Med Biol** 1996; 416:389-96

Low molecular weight heparin stimulates megakaryocytopoiesis in bone-marrow transplantation patients. Or R, et al. **Am J Hematol** 1996 Sep;53(1):46-8

Phase I study of intravenous ribavirin treatment of respiratory syncytial virus pneumonia after marrow transplantation. Lewinsohn DM, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2555-7

Bone marrow induced osteogenesis in hydroxyapatite and calcium carbonate implants. Vuola J, et al. **Biomaterials** 1996 Sep;17(18):1761-6

Biologic responses of autogenous bone and beta-tricalcium phosphate ceramics transplanted into bone defects to orthodontic forces. Hossain MZ, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):277-83

Efficacy and safety of ondansetron in pediatric patients undergoing bone marrow transplantation. Nahata MC, et al. **Clin Ther** 1996 May-Jun;18(3):466-76

The influence of donor specific vertebral body derived bone marrow cell infusion on canine islet allograft survival without irradiation conditioning of the recipient. Brendel MD, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:129-32

Circulating endogenous thrombopoietin, interleukin-3, interleukin-6 and interleukin-11 levels in patients undergoing allogeneic bone marrow transplantation. Ishida A, et al. **Int J Hematol** 1996 Dec;65(1):61-9

Phagocytosis and burst activity of granulocytes and monocytes after stem cell transplantation. Miyagawa B, et al. **J Lab Clin Med** 1997 Jun;129(6):634-7

Humoral coagulation and early complications after allogeneic bone marrow transplantation. Nürnberger W, et al. **Klin Padiatr** 1997 Jul-Aug;209(4):209-15

The modulation of plasma lipids and lipoproteins during bone marrow transplantation is unrelated to exogenously administered recombinant human granulocyte-monocyte colony-stimulating factor (rHu GM-CSF). Dann EJ, et al. **Med Oncol** 1996 Jun;13(2):81-6

Kidney function in long-term pediatric survivors of acute lymphoblastic leukemia following allogeneic bone marrow transplantation. Kumar M, et al. **Pediatr Hematol Oncol** 1996 Jul-Aug;13(4):375-9

Role of the thymus in radiation-induced lung damage after

bone marrow transplantation. McBride WH, et al. **Radiat Res** 1997 Apr;147(4):501–5

Documentation in bone-marrow-augmented organ recipients of the presence of dendritic cell progenitors of donor origin. Aitouche A, et al. **Transplant Proc** 1997 Jun; 29(4):2175–6

The kinetics of seeding of syngeneic cells from vascularized bone marrow grafts. Durlik M, et al. **Transplant Proc** 1997 Jun;29(4):2008–9

Different mechanisms of rejection of organ and cell allografts. Olszewski WL, et al. **Transplant Proc** 1996 Dec; 28(6):3444–6

[The PRINS technique. Aplication to the detection of X and Y chromosomes for follow-up of bone marrow allografts performed with an opposite sex donor] Marie B, et al. **Ann Pathol** 1997 Mar;17(1):11–6 (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Substance abuse and bone marrow transplant. Chang G, et al. **Am J Drug Alcohol Abuse** 1997 May;23(2):301–8

Risks and benefits of pediatric bone marrow donation: a critical need for research. Weisz V, et al. **Behav Sci Law** 1996 Autumn;14(4):375–91 (57 ref.)

Psychological stress symptoms before and after autologous bone marrow transplantation in patients with solid tumors. Grassi L, et al. **Bone Marrow Transplant** 1996 May; 17(5):843–7

Quality of life measurement in bone marrow transplantation: development of the Functional Assessment of Cancer Therapy-Bone Marrow Transplant (FACT-BMT) scale. McQuellon RP, et al. **Bone Marrow Transplant** 1997 Feb; 19(4):357–68

Ethical problems in bone marrow transplantation in children. Massimo L. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:8–12 (19 ref.)

Suicide and suicidal ideation after marrow transplantation. Molassiotis A, et al. **Bone Marrow Transplant** 1997 Jan; 19(1):87–90

Psychosocial morbidity and survival in adult bone marrow transplant recipients—a follow-up study. Murphy KC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):199–201

Physical and psychosocial functioning of 117 survivors of bone marrow transplantation. Prieto JM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1133–42

Quality of life following bone marrow transplantation: a comparison of patient reports with population norms. Sutherland HJ, et al. **Bone Marrow Transplant** 1997 Jun; 19(11):1129–36

Positive and negative psychosocial sequelae of bone marrow transplantation: implications for quality of life assessment. Fromm K, et al. **J Behav Med** 1996 Jun;19(3):221–40

Coping with the physical and psychosocial sequelae of bone marrow transplantation among long-term survivors. Somerfield MR, et al. **J Behav Med** 1996 Apr;19(2):163–84

Therapeutic play and bone marrow transplantation. Kuntz N, et al. **J Pediatr Nurs** 1996 Dec;11(6):359–67

Symptom distress, coping style and biological variables as predictors of survival after bone marrow transplantation. Molassiotis A, et al. **J Psychosom Res** 1997 Mar; 42(3):275–85

Exploring the everyday world of the patient in isolation. Gaskill D, et al. **Oncol Nurs Forum** 1997 May;24(4):695–700

Day hospital improves quality of life for patients undergoing transplantation. Lambert S, et al. **Oncol Nurs Forum** 1997 Jun;24(5):803–4

Psychological and immunological reactions of family members to patients undergoing bone marrow transplantation. Futterman AD, et al. **Psychosom Med** 1996 Sep-Oct;58(5):472–80

Psychological distress among adult patients being evaluated for bone marrow transplantation. Baker F, et al. **Psychosomatics** 1997 Jan-Feb;38(1):10–9

A modular questionnaire for the assessment of longterm quality of life in leukaemia patients: the MRC/EORTC QLQ-LEU. Watson M, et al. **Qual Life Res** 1996 Feb; 5(1):15–9

Perceived social support, family environment and psychosocial recovery in bone marrow transplant long-term survivors. Molassiotis A, et al. **Soc Sci Med** 1997 Feb;44(3):317–25

Understanding donors' motivations: a study of unrelated bone marrow donors. Switzer GE, et al. **Soc Sci Med** 1997 Jul; 45(1):137–47

[Psychiatric problems in bone marrow transplantation patients during isolation] Schweigkofler H, et al. **Nervenarzt** 1996 Sep;67(9):799–804 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Radiography and bone scintigraphy in bone marrow transplant multiple myeloma patients. Agren B, et al. **Acta Radiol** 1997 Jan;38(1):144–50

RADIONUCLIDE IMAGING

Radiography and bone scintigraphy in bone marrow transplant multiple myeloma patients. Agren B, et al. **Acta Radiol** 1997 Jan;38(1):144–50

Dynamic scintigraphy of bone and bone marrow in multiple myeloma patients with bone-marrow transplants. Agren B, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):533–8

Bone marrow imaging of bone marrow transplanted multiple myeloma patients. Agren B, et al. **Clin Nucl Med** 1997 Feb; 22(2):80–92

REHABILITATION

An aerobic exercise program for patients with haematological malignancies after bone marrow transplantation. Dimeo F, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1157–60

Patients undergoing bone marrow transplant benefit from exercise class. Dohnalek LJ. **Oncol Nurs Forum** 1997 Jul; 24(6):966

STANDARDS

German consensus on immunogenetic donor search for transplantation of allogeneic bone marrow and peripheral blood stem cells. Ottinger HD, et al. **Bone Marrow Transplant** 1997 Jul;20(2):101–5

Unrelated donor bone marrow transplantation: its use in leukaemias and allied disorders. Consensus statement from the RCPE/Consensus Conference on Unrelated Donor BMT held on 29 and 30 October 1996 [editorial] **J Clin Pathol** 1997 Feb;50(2):91–2 (0 ref.)

[Distortion of the past history of the profession does not help to bring the profession up-to-date (letter)] Poros A. **Orv Hetil** 1997 Mar 23;138(12):769 **(Hun)**

STATISTICS & NUMERICAL DATA

Retrospective evaluation of autologous bone marrow transplantation vs allogeneic bone marrow transplantation from an HLA identical related donor in acute myelocytic leukemia. A study of the European Cooperative Group for Blood and Marrow Transplantation (EBMT). Gorin NC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):111–7

Blood and marrow transplantation activity in Europe 1995. European Group for Blood and Marrow Transplantation (EBMT). Gratwohl A, et al. **Bone Marrow Transplant** 1997 Mar;19(5):407–19

Report of the Japanese Central Bone Marrow Data Center. Tanaka H, et al. **Clin Transpl** 1996;:139–44

Unrelated bone marrow transplantation from the National Marrow Donor Program. Murata M, et al. **Int J Hematol** 1997 Aug;66(2):239–43

Validation of large data sets, an essential prerequisite for data analysis: an analytical survey of the Bone Marrow Donors Worldwide. Schipper RF, et al. **Tissue Antigens** 1996 Mar; 47(3):169–78 (10 ref.)

[The bone-marrow transplantation program in Hungary: report from the period 1990–1995] Petrányi G, et al. **Orv Hetil** 1996 Oct 6;137(40):2203–8 (Eng. Abstr.) **(Hun)**

[Access to bone marrow transplantation in acute myeloblastic leukemia. Study of 52 patients treated in a single center] Tomás JF, et al. **Med Clin (Barc)** 1997 May 31;109(1):12–5 (Eng. Abstr.) **(Spa)**

[Allogenic bone marrow transplantation versus autograft in acute lymphoblastic leukemia, in second remission in 113 children. Results of the Grupo Español de Transplante de Medula Niños (GETMON)] Badell I, et al. **Sangre (Barc)** 1996 Apr;41(2):101–8 (Eng. Abstr.) **(Spa)**

TRENDS

Pathways of T-cell regeneration in mice and humans: implications for bone marrow transplantation and immunotherapy. Mackall CL, et al. **Immunol Rev** 1997 Jun; 157:61–72 (68 ref.)

The potential of bone marrow stem cell transplantation in the treatment of autoimmune diseases [editorial] Messner RP. **J Rheumatol** 1997 May;24(5):819–21

UTILIZATION

The effects of health insurance on access to new medical technologies. Ramsey SD, et al. **Int J Technol Assess Health Care** 1997 Spring;13(2):357–67

VETERINARY

Urine glycosaminoglycan concentrations in mucopolysaccharidosis VI-affected cats following bone marrow transplantation or leukocyte infusion. Dial SM, et al. **Clin Chim Acta** 1997 Jul 4;263(1):1–14

BONE MATRIX

In vivo evaluation of a resorbable osteoinductive composite as a graft substitute for lumbar spinal fusion. Boden SD, et al. **J Spinal Disord** 1997 Feb;10(1):1–11

6th International Conference on the Molecular Biology and Pathology of Matrix. Philadelphia, Pennsylvania, June 16–19, 1996. Abstracts. **Matrix Biol** 1996 Sep;15(3):147–210

CHEMISTRY

Effect of aging on the amide group of bone matrix, measured by FTIR spectrophotometry, in adult subjects deceased as a result of violent death. Very JM, et al. **Calcif Tissue Int** 1997 Mar;60(3):271–5

Vertebrate mineralized matrix proteins: structure and function. Robey PG. **Connect Tissue Res** 1996; 35(1–4):131–6 (6 ref.)

Partial purification and characterization of bone morphogenetic protein from bone matrix of the premature moose (Alces alces): degradation of bone-inducing activity during storage. Viljanen VV, et al. **Eur Surg Res** 1996; 28(6):447–60

Immunodetection of enamel- and cementum-related (bone) proteins at the enamel-free area and cervical portion of the tooth in rat molars. Bosshardt DD, et al. **J Bone Miner Res** 1997 Mar;12(3):367–79

A new role for the chondrocyte in fracture repair: endochondral ossification includes direct bone formation by former chondrocytes. Scammell BE, et al. **J Bone Miner Res** 1996 Jun;11(6):737–45

CYTOLOGY

Bisphosphonates inhibit prostate and breast carcinoma cell adhesion to unmineralized and mineralized bone extracellular matrices. Boissier S, et al. **Cancer Res** 1997 Sep 15;57(18):3890–4

Regulated production of mineralization-competent matrix vesicles in hypertrophic chondrocytes. Kirsch T, et al. **J Cell Biol** 1997 Jun 2;137(5):1149–60

DRUG EFFECTS

Bone morphogenetic protein 2 (BMP-2) enhances BMP-3, BMP-4, and bone cell differentiation marker gene expression during the induction of mineralized bone matrix formation in cultures of fetal rat calvarial osteoblasts. Chen D, et al. **Calcif Tissue Int** 1997 Mar;60(3):283–90

Cytokine-induced inhibition of bone matrix proteins is not mediated by prostaglandins. Rosenquist JB, et al. **Inflamm Res** 1996 Sep;45(9):457–63

Microgravity reduces the differentiation of human osteoblastic MG-63 cells. Carmeliet G, et al. **J Bone Miner Res** 1997 May;12(5):786–94

Expression of bone matrix proteins during dexamethasone-induced mineralization of human bone marrow stromal cells. Cheng SL, et al. **J Cell Biochem** 1996 May;61(2):182–93

Study of NaF effects on transiliac bone [letter; comment] Gutteridge DH, et al. **Osteoporos Int** 1996;6(5):416–7. Comment on: Osteoporos Int 1995 Mar;5(2):115–29.

[Calcium release from the mineral matrix of the mandibular bone due to hydrogen peroxide exposure] Avitabile M, et al. **Minerva Stomatol** 1996 Sep;45(9):401–3 (Eng. Abstr.) **(Ita)**

EMBRYOLOGY

Stage-specific expression patterns of alkaline phosphatase during development of the first arch skeleton in inbred C57BL/6 mouse embryos. Miyake T, et al. **J Anat** 1997 Feb;190 (Pt 2):239–60

ENZYMOLOGY

Biochemical evidence for altered subchondral bone collagen metabolism in osteoarthritis of the hip. Mansell JP, et al. **Br J Rheumatol** 1997 Jan;36(1):16–9

Matrix metalloproteinases are obligatory for the migration of preosteoclasts to the developing marrow cavity of primitive long bones. Blavier L, et al. **J Cell Sci** 1995 Dec; 108 (Pt 12):3649–59

INJURIES

Aging and matrix microdamage accumulation in human compact bone. Schaffler MB, et al. **Bone** 1995 Dec; 17(6):521–25

METABOLISM

Bone matrix degradation by the plasminogen activation system. Possible mechanism of bone destruction in arthritis. Ronday HK, et al. **Br J Rheumatol** 1997 Jan;36(1):9–15

Advanced glycation endproducts stimulate interleukin-6 production by human bone-derived cells. Takagi M, et al. **J Bone Miner Res** 1997 Mar;12(3):439–46

Effects of cell culture time and bone matrix exposure on calmodulin content and ATP-dependent cell membrane acid transport in avian osteoclasts and macrophages. Williams JP, et al. **J Cell Physiol** 1996 Dec;169(3):411–9

Early mineralization of matrix vesicles in the epiphyseal growth plate. Plate U, et al. **J Microsc** 1996 Jul;183 (Pt 1):102–7

Molecular mechanisms of bone resorption: therapeutic implications. Baron R. **Rev Rhum Engl Ed** 1996 Nov; 63(10):633–8 (34 ref.)

Journey across the osteoclast [comment] Mostov K, et al. **Science** 1997 Apr 11;276(5310):219–20 (17 ref.). Comment on: Science 1997 Apr 11;276(5310):266–9. Comment on: Science 1997 Apr 11;276(5310):270–3.

Trafficking of matrix collagens through bone-resorbing osteoclasts [see comments] Nesbitt SA, et al. **Science** 1997 Apr 11;276(5310):266–9. Comment in: Science 1997 Apr 11;276(5310):219–20.

Removal of osteoclast bone resorption products by transcytosis [see comments] Salo J, et al. **Science** 1997 Apr 11;276(5310):270–3. Comment in: Science 1997 Apr 11;276(5310):219–20.

PHYSIOLOGY

Osteocytes and bone lining cells: which are the best candidates for mechano-sensors in cancellous bone? Mullender MG, et al. **Bone** 1997 Jun;20(6):527–32

Deformation-induced hierarchical flows and drag forces in bone canaliculi and matrix microporosity. Mak AF, et al.

BONE MATRIX

J Biomech 1997 Jan;30(1):11–8

New aspects of endochondral ossification in the chick: chondrocyte apoptosis, bone formation by former chondrocytes, and acid phosphatase activity in the endochondral bone matrix. Roach HI.
J Bone Miner Res 1997 May;12(5):795–805

The effects of various fluoride concentrations on new bone formation in intramuscular implants of bone matrix in mice. Broulík PD. **Physiol Res** 1996;45(6):449–51

TRANSPLANTATION

Use of demineralized bone matrix in hindfoot arthrodesis. Michelson JD, et al. **Clin Orthop** 1996 Apr;(325):203–8 (24 ref.)

Morphological changes of autoclaved autogenic bone implantation and autoclaved autogenic bone supplemented with allogenic demineralized bone matrix in rat parietal bone. Young TQ, et al. **Histol Histopathol** 1996 Apr; 11(2):361–9

Integration of endochondral bone grafts in the presence of demineralized bone matrix. Rabie AB, et al.
Int J Oral Maxillofac Surg 1996 Aug;25(4):311–8

Uses of Grafton for reconstructive foot and ankle surgery. Kado KE, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):59–66

Utilization of type I collagen gel, demineralized bone matrix, and bone morphogenetic protein–2 to enhance autologous bone lumbar spinal fusion. Helm GA, et al.
J Neurosurg 1997 Jan;86(1):93–100

Transplanted demineralized bone graft in cranial reconstructive surgery. Moss SD, et al.
Pediatr Neurosurg 1995;23(4):199–204; discussion 204–5

[The use of human lyophilized bone matrix gelatin in oral surgery (preliminary report)] Eitler T, et al. **Fogorv Sz** 1997 Mar;90(3):67–74 (Eng. Abstr.) **(Hun)**

ULTRASTRUCTURE

Ultrastructure of the organic matrix of embryonic avian bone after en bloc reaction with various electron–dense 'stains'. Bonucci E, et al. **Acta Anat (Basel)** 1996;156(1):22–33

Cell and matrix reactions at titanium implants in surgically prepared rat tibiae. Masuda T, et al.
Int J Oral Maxillofac Implants 1997 Jul–Aug;12(4):472–85

A highly porous 3–dimensional polyphosphazene polymer matrix for skeletal tissue regeneration. Laurencin CT, et al. **J Biomed Mater Res** 1996 Feb;30(2):133–8

[Structural organization of bone minerals] Doktorov AA, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):687–91 **(Rus)**

BONE MINERAL CONTENT see **BONE DENSITY**

BONE MINERAL DENSITY see **BONE DENSITY**

BONE MINERALIZATION see **CALCIFICATION, PHYSIOLOGIC**

BONE MORPHOGENETIC PROTEINS

Tracheal autograft prefabrication using microfibrillar collagen and bone morphogenetic protein. Kuriloff DB, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec; 122(12):1385–9

Fibroblasts of spinal ligaments pathologically differentiate into chondrocytes induced by recombinant human bone morphogenetic protein–2: morphological examinations for ossification of spinal ligaments. Hoshi K, et al. **Bone** 1997 Aug;21(2):155–62

Composites of bone morphogenetic protein (BMP) and type IV collagen, coral–derived coral hydroxyapatite, and tricalcium phosphate ceramics. Gao T, et al. **Int Orthop** 1996;20(5):321–5

Enhanced healing of segmental tibial defects in sheep by a composite bone substitute composed of tricalcium phosphate cylinder, bone morphogenetic protein, and type IV collagen. Gao TJ, et al. **J Biomed Mater Res** 1996 Dec; 32(4):505–12

Ectopic bone induction in porous apatite–wollastonite–containing glass ceramic combined with bone morphogenetic protein. Ijiri S, et al.
J Biomed Mater Res 1997 Jun 15;35(4):421–32

[Ectopic bone induction in recombinant human bone morphogenetic protein–2 (rhBMP–2) combined with biphasic calcium phosphate (BCP)] Oda S, et al.
Kokubyo Gakkai Zasshi 1996 Sep;63(3):468–77 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Promotion of the osteogenetic activity of recombinant human bone morphogenetic protein by prostaglandin E1. Ono I, et al. **Bone** 1996 Dec;19(6):581–8

Long–term evaluation of recombinant human bone morphogenetic protein–2 induced bone formation with a biologic and synthetic delivery system. Alpaslan C, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):414–8

Evaluation of heterotopic bone formation induced by squalane and bone morphogenetic protein composite. Kawakami T, et al. **Clin Orthop** 1997 Apr;(337):261–6

Cardiac malformations induced after "in ovo" administration of OP–1 to the outflow tract in the developing chick. Sanchez–Quintana D, et al. **Int J Dev Biol** 1996;Suppl 1:265S–266S

Bone morphogenetic protein encapsulated with a biodegradable and biocompatible polymer. Isobe M, et al. **J Biomed Mater Res** 1996 Nov;32(3):433–8

Importance of delivery systems for growth–stimulatory factors in combination with osteopromotive membranes. An experimental study using rhBMP–2 in rat mandibular defects. Zellin G, et al. **J Biomed Mater Res** 1997 May; 35(2):181–90

Molecular methods of enhancing lumbar spine fusion. Sheehan JP, et al. **Neurosurgery** 1996 Sep;39(3):548–54

ANALYSIS

Measurement of total and local bone morphogenetic protein concentration in bone tumours. Laitinen M, et al.
Int Orthop 1997;21(3):188–93

Bone morphogenetic protein: the molecularization of skeletal system development [editorial; comment] Urist MR.
J Bone Miner Res 1997 Mar;12(3):343–6 (58 ref.). Comment on: J Bone Miner Res 1997 Mar;12(3):332–42.

Immunohistochemical demonstration of bone morphogenetic protein in odontogenic tumors. Gao YH, et al.
J Oral Pathol Med 1997 Jul;26(6):273–7

Endogenous bone morphogenetic protein: immunohistochemical localization in repair of a punch hole in the rabbit's ear. Urist MR, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1382–9

ANTAGONISTS & INHIBITORS

A kinase domain–truncated type I receptor blocks bone morphogenetic protein–2–induced signal transduction in C2C12 myoblasts. Namiki M, et al. **J Biol Chem** 1997 Aug 29;272(35):22046–52

Antagonism within and around the organizer: BMP inhibitors in vertebrate body patterning. Thomsen GH.
Trends Genet 1997 Jun;13(6):209–11 (25 ref.)

BIOSYNTHESIS

Expression of genes for bone morphogenetic proteins and receptors in human dental pulp. Gu K, et al.
Arch Oral Biol 1996 Oct;41(10):919–23

Expression of bone morphogenetic proteins of human neoplastic epithelial cells. Hatakeyama S, et al.
Biochem Mol Biol Int 1997 Jul;42(3):497–505

Bone morphogenetic protein 2 transcripts in rapidly developing deer antler tissue contain an extended 5' non–coding region arising from a distal promoter. Feng JQ, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):47–52

Expression and localization of bone morphogenetic proteins (BMPs) and BMP receptors in ossification of the ligamentum flavum. Hayashi K, et al. **Bone** 1997 Jul; 21(1):23–30

Analysis of limb patterning in BMP–7–deficient mice. Hofmann C, et al. **Dev Genet** 1996;19(1):43–50

Shh, HoxD, Bmp–2, and Fgf–4 gene expression during development of the polydactylous talpid2, diplopodia1, and diplopodia4 mutant chick limb buds. Rodriguez C, et al.
Dev Genet 1996;19(1):26–32

BMP–7 influences pattern and growth of the developing hindbrain of mouse embryos. Arkell R, et al.
Development 1997 Jan;124(1):1–12

Role of BMP–2 and OP–1 (BMP–7) in programmed cell death and skeletogenesis during chick limb development. Macias D, et al. **Development** 1997 Mar;124(6):1109–17

The zebrafish BMP4 gene: sequence analysis and expression pattern during embryonic development. Hwang SP, et al.
DNA Cell Biol 1997 Aug;16(8):1003–11

Antagonistic actions of activin A and BMP–2/4 control dorsal lip–specific activation of the early response gene XFD–1' in Xenopus laevis embryos. Kaufmann E, et al.
EMBO J 1996 Dec 2;15(23):6739–49

Osteogenic protein–1 is produced by human fetal trophoblasts in vivo and regulates the synthesis of chorionic gonadotropin and progesterone by trophoblasts in vitro. Martinovic S, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):103–9

Bone morphogenetic protein–6 is expressed in nonparenchymal liver cells and upregulated by transforming growth factor–beta 1. Knittel T, et al.
Exp Cell Res 1997 May 1;232(2):263–9

Expression of bone morphogenetic proteins by osteoinductive and non–osteoinductive human osteosarcoma cells. Raval P, et al. **J Dent Res** 1996 Jul;75(7):1518–23

Overexpression of bone morphogenic protein (BMP)–4 mRNA in gastric cancer cell lines of poorly differentiated type. Katoh M, et al. **J Gastroenterol** 1996 Feb;31(1):137–9

Cartilage morphogenesis: role of bone and cartilage morphogenetic proteins, homeobox genes and extracellular matrix. Reddi AH. **Matrix Biol** 1995 Oct;14(8):599–606 (64 ref.)

Overexpression of BMP–2 and BMP–4 alters the size and shape of developing skeletal elements in the chick limb. Duprez D, et al. **Mech Dev** 1996 Jul;57(2):145–57

An ascidian homologue of vertebrate BMPs–5–8 is expressed in the midline of the anterior neuroectoderm and in the midline of the ventral epidermis of the embryo. Miya T, et al. **Mech Dev** 1996 Jul;57(2):181–90

The enamel knot as a signaling center in the developing mouse tooth. Vaahtokari A, et al. **Mech Dev** 1996 Jan; 54(1):39–43

CHEMISTRY

Characterization of a novel gene product (mammalian tolloid–like) with high sequence similarity to mammalian tolloid/bone morphogenetic protein–1. Takahara K, et al.
Genomics 1996 Jun 1;34(2):157–65

The CUB domains of procollagen C–proteinase enhancer control collagen assembly solely by their effect on procollagen C–proteinase/bone morphogenetic protein–1. Hulmes DJ, et al. **Matrix Biol** 1997 Apr;16(1):41–5

CLASSIFICATION

Updating the metalloprotease nomenclature: bone morphogenetic protein 1 identified as procollagen C proteinase. Hofbauer LC, et al. **Eur J Endocrinol** 1996 Jul; 135(1):35–6

DEFICIENCY

Mechanical and geometric changes in the growing femora of BMP–5 deficient mice. Mikić B, et al. **Bone** 1996 Jun; 18(6):601–7

Haploinsufficient phenotypes in Bmp4 heterozygous null mice and modification by mutations in Gli3 and Alx4. Dunn NR, et al. **Dev Biol** 1997 Aug 15;188(2):235–47

Analysis of limb patterning in BMP–7–deficient mice. Hofmann C, et al. **Dev Genet** 1996;19(1):43–50

DRUG EFFECTS

Bone morphogenetic protein 2 (BMP–2) enhances BMP–3, BMP–4, and bone cell differentiation marker gene expression during the induction of mineralized bone matrix formation in cultures of fetal rat calvarial osteoblasts. Chen D, et al. **Calcif Tissue Int** 1997 Mar;60(3):283–90

GENETICS

Expression of genes for bone morphogenetic proteins and receptors in human dental pulp. Gu K, et al.
Arch Oral Biol 1996 Oct;41(10):919–23

A member of the Met/HGF–receptor family is expressed in a BMP–4–like pattern in the ectoderm of Xenopus gastrulae. Aberger F, et al.
Biochem Biophys Res Commun 1997 Feb 3;231(1):191–5

Osteogenic protein–1 mRNA in the uterine endometrium. Ozkaynak E, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):242–6

Bone morphogenetic protein 2 transcripts in rapidly developing deer antler tissue contain an extended 5' non–coding region arising from a distal promoter. Feng JQ, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):47–52

Human osteosarcoma (OST) induces mouse reactive bone formation in xenograft system. Tokunaga K, et al. **Bone** 1996 Nov;19(5):447–54

Osteogenic protein–1 stimulates mRNA levels of BMP–6 and decreases mRNA levels of BMP–2 and –4 in human osteosarcoma cells. Honda Y, et al. **Calcif Tissue Int** 1997 Mar;60(3):297–301

Antagonistic interactions between FGF and BMP signaling pathways: a mechanism for positioning the sites of tooth formation. Neubüser A, et al. **Cell** 1997 Jul 25;90(2):247–55

Receptor–selective retinoids implicate retinoic acid receptor alpha and gamma in the regulation of bmp–2 and bmp–4 in F9 embryonal carcinoma cells. Rogers MB.
Cell Growth Differ 1996 Jan;7(1):115–22

Expression of serine/threonine kinase receptors including the bone morphogenetic factor type II receptor in the developing and adult rat brain. Söderström S, et al.
Cell Tissue Res 1996 Nov;286(2):269–79

Bone morphogenetic proteins: an unconventional approach to isolation of first mammalian morphogens. Reddi AH.
Cytokine Growth Factor Rev 1997 Mar;8(1):11–20 (84 ref.)

Haploinsufficient phenotypes in Bmp4 heterozygous null mice and modification by mutations in Gli3 and Alx4. Dunn NR, et al. **Dev Biol** 1997 Aug 15;188(2):235–47

Transcripts for two members of the transforming growth factor–beta superfamily BMP–3 and BMP–7 are expressed in developing rat embryos. Takahashi H, et al.
Dev Dyn 1996 Dec;207(4):439–49

Bone morphogenetic proteins (BMPs) as regulators of dorsal forebrain development. Furuta Y, et al. **Development** 1997 Jun;124(11):2203–12

Regulation of Msx–1, Msx–2, Bmp–2 and Bmp–4 during foetal and postnatal mammary gland development. Phippard DJ, et al. **Development** 1996 Sep;122(9):2729–37

Joint patterning defects caused by single and double mutations in members of the bone morphogenetic protein (BMP) family. Storm EE, et al. **Development** 1996 Dec; 122(12):3969–79

The zebrafish BMP4 gene: sequence analysis and expression pattern during embryonic development. Hwang SP, et al.
DNA Cell Biol 1997 Aug;16(8):1003–11

hch–1, a gene required for normal hatching and normal migration of a neuroblast in C. elegans, encodes a protein related to TOLLOID and BMP–1. Hishida R, et al.
EMBO J 1996 Aug 15;15(16):4111–22

BMP7 null mutation in mice: developmental defects in skeleton, kidney, and eye. Jena N, et al. **Exp Cell Res** 1997 Jan 10;230(1):28–37

Spectrum of Bmp5 mutations from germline mutagenesis experiments in mice. Marker PC, et al. **Genetics** 1997 Feb; 145(2):435–43

The Bmp8 gene is expressed in developing skeletal tissue

and maps near the Achondroplasia locus on mouse chromosome 4. DiLeone RJ, et al. **Genomics** 1997 Feb 15; 40(1):196–8

Localization of bone morphogenetic protein–4 messenger RNA in developing mouse cochlea. Takemura T, et al. **Hear Res** 1996 May;95(1–2):26–32

Identification of ovarian granulosa cells as a novel site of expression for bone morphogenetic protein–3 (BMP–3/osteogenin) and regulation of BMP–3 messenger ribonucleic acids by chorionic gonadotropin in cultured human granulosa–luteal cells. Jaatinen R, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3877–82

Recombinant bone morphogenetic protein (BMP)–2 regulates costochondral growth plate chondrocytes and induces expression of BMP–2 and BMP–4 in a cell maturation–dependent manner. Erickson DM, et al. **J Orthop Res** 1997 May;15(3):371–80

Structure and sequence of the mouse Bmp6 gene. Gitelman SE, et al. **Mamm Genome** 1997 Mar;8(3):212–4

The ectodermal control in chick limb development: Wnt–7a, Shh, Bmp–2 and Bmp–4 expression and the effect of FGF–4 on gene expression. Akita K, et al. **Mech Dev** 1996 Dec; 60(2):127–37

Evidence that mouse Bmp8a (Op2) and Bmp8b are duplicated genes that play a role in spermatogenesis and placental development. Zhao GQ, et al. **Mech Dev** 1996 Jul; 57(2):159–68

Recombinant human bone morphogenetic protein–2 stimulates differentiation in primary cultures of fetal rat calvarial osteoblasts. Chaudhari A, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):31–9

BMP expression in duck interdigital webbing: a reanalysis [letter] Laufer E, et al. **Science** 1997 Oct 10;278(5336):305

ISOLATION & PURIFICATION

Bone morphogenetic proteins: an unconventional approach to isolation of first mammalian morphogens. Reddi AH. **Cytokine Growth Factor Rev** 1997 Mar;8(1):11–20 (84 ref.)

Partial purification and characterization of bone morphogenetic protein from bone matrix of the premature moose (Alces alces): degradation of bone–inducing activity during storage. Viljanen VV, et al. **Eur Surg Res** 1996; 28(6):447–60

A study of the bone morphogenetic protein derived from bovine demineralized dentin matrix. Mizutani H, et al. **Nagoya J Med Sci** 1996 Mar;59(1–2):37–47

METABOLISM

Bone morphogenetic protein receptors and activin receptors are highly expressed in ossified ligament tissues of patients with ossification of the posterior longitudinal ligament. Yonemori K, et al. **Am J Pathol** 1997 Apr;150(4):1335–47

Transforming growth factor beta and bone morphogenetic protein 2 for bone ingrowth: a comparison using bone chambers in rats. Aspenberg P, et al. **Bone** 1996 Nov; 19(5):499–503

Internalization and intracellular processing of bone morphogenetic protein (BMP) in rat skeletal muscle myoblasts (L6). Jortikka L, et al. **Cell Signal** 1997 Jan; 9(1):47–51

Signalling by TGF–beta family members: short–range effects of Xnr–2 and BMP–4 contrast with the long–range effects of activin. Jones CM, et al. **Curr Biol** 1996 Nov 1; 6(11):1468–75

Bone morphogenetic proteins in development. Hogan BL. **Curr Opin Genet Dev** 1996 Aug;6(4):432–8 (57 ref.)

Overlapping expression domains of bone morphogenetic protein family members potentially account for limited tissue defects in BMP7 deficient embryos. Dudley AT, et al. **Dev Dyn** 1997 Mar;208(3):349–62

Cloning of rat type I receptor cDNA for bone morphogenetic protein–2 and bone morphogenetic protein–4, and the localization compared with that of the ligands. Ikeda T, et al. **Dev Dyn** 1996 Jul;206(3):318–29

Msx1 controls inductive signaling in mammalian tooth morphogenesis. Chen Y, et al. **Development** 1996 Oct; 122(10):3035–44

The Xvent–2 homeobox gene is part of the BMP–4 signalling pathway controlling [correction of controling] dorsoventral patterning of Xenopus mesoderm [published erratum appears in Development 1997 Jan;124(1):preceding table of contents] Onichtchouk D, et al. **Development** 1996 Oct;122(10):3045–53

BMP–2/–4 mediate programmed cell death in chicken limb buds. Yokouchi Y, et al. **Development** 1996 Dec; 122(12):3725–34

Glucocorticoid–induced differentiation of fetal rat calvarial osteoblasts is mediated by bone morphogenetic protein–6. Boden SD, et al. **Endocrinology** 1997 Jul;138(7):2820–8

The effects of orbital spaceflight on bone histomorphometry and messenger ribonucleic acid levels for bone matrix proteins and skeletal signaling peptides in ovariectomized growing rats. Cavolina JM, et al. **Endocrinology** 1997 Apr; 138(4):1567–76

Bone morphogenetic protein 2/4 in early fibromatous lesions of fibrodysplasia ossificans progressiva. Gannon FH, et al. **Hum Pathol** 1997 Mar;28(3):339–43

Sequential synthesis of cartilage and bone marker proteins during transdifferentiation of mouse Meckel's cartilage chondrocytes in vitro. Ishizeki K, et al. **Int J Dev Biol** 1997 Feb;41(1):83–9

Transforming growth factor–beta regulation of bone morphogenetic protein–1/procollagen C–proteinase and related proteins in fibrogenic cells and keratinocytes. Lee S, et al. **J Biol Chem** 1997 Jul 25;272(30):19059–66

Interaction between soluble type I receptor for bone morphogenetic protein and bone morphogenetic protein–4. Natsume T, et al. **J Biol Chem** 1997 Apr 25; 272(17):11535–40

Establishment of bone morphogenetic protein 2 responsive chondrogenic cell line. Aikawa T, et al. **J Bone Miner Res** 1996 Apr;11(4):544–53

Identification of ovarian granulosa cells as a novel site of expression for bone morphogenetic protein–3 (BMP–3/osteogenin) and regulation of BMP–3 messenger ribonucleic acids by chorionic gonadotropin in cultured human granulosa–luteal cells. Jaatinen R, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3877–82

Evidence for genetic control of Sonic hedgehog by Gli3 in mouse limb development. Büscher D, et al. **Mech Dev** 1997 Mar;62(2):175–82

Winged–helix, Hedgehog and Bmp genes are differentially expressed in distinct cell layers of the murine yolk sac. Farrington SM, et al. **Mech Dev** 1997 Mar;62(2):197–211

A role for BMP–4 in the development of subcutaneous cartilage. Watanabe Y, et al. **Mech Dev** 1996 Jun; 57(1):69–78

Bone morphogenetic protein–6 expression in normal and malignant prostate. Barnes J, et al. **World J Urol** 1995; 13(6):337–43

PHARMACOLOGY

Regeneration of articular cartilage defects in rabbits by osteogenic protein–1 (bone morphogenetic protein–7). Grgić M, et al. **Acta Med Croatica** 1997;51(1):23–7

Ectopic bone formation by composites of BMP and metal implants in rats. Herr G, et al. **Acta Orthop Scand** 1996 Dec;67(6):606–10

BMP–2 can inhibit bone healing. Bone–chamber study in rabbits. Jeppsson C, et al. **Acta Orthop Scand** 1996 Dec; 67(6):589–92

Osteogenic protein–1 downregulates endothelin A receptors in primary rat osteoblasts. Kitten AM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E967–75

BMPs induce endochondral ossification in rats when implanted ectopically within a carrier made of fibrous glass membrane. Sasano Y, et al. **Anat Rec** 1997 Apr;247(4):472–8

Bone morphogenetic protein promotes vascularization and osteoinduction in preformed hydroxyapatite in the rabbit. Levine JP, et al. **Ann Plast Surg** 1997 Aug;39(2):158–68

Induction of cementogenesis by recombinant human osteogenic protein–1 (hop–1/bmp–7) in the baboon (Papio ursinus). Ripamonti U, et al. **Arch Oral Biol** 1996 Jan; 41(1):121–26

Recombinant human osteogenic protein 1 is a potent stimulator of the synthesis of cartilage proteoglycans and collagens by human articular chondrocytes. Flechtenmacher J, et al. **Arthritis Rheum** 1996 Nov; 39(11):1896–904

Bone morphogenetic protein 2 stimulates articular cartilage proteoglycan synthesis in vivo but does not counteract interleukin–1alpha effects on proteoglycan synthesis and content. Glansbeek HL, et al. **Arthritis Rheum** 1997 Jun; 40(6):1020–8

Clonal osteoblastic cell lines from p53 null mouse calvariae are immortalized and dependent on bone morphogenetic protein 2 for mature osteoblastic phenotype. Ghosh–Choudhury N, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):196–202

Smad1 and smad5 act downstream of intracellular signalings of BMP–2 that inhibits myogenic differentiation and induces osteoblast differentiation in C2C12 myoblasts. Yamamoto N, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):574–80

Treatment of pluripotential C3H 10T1/2 fibroblasts with bone morphogenetic protein–4 induces adipocyte commitment. Butterwith SC, et al. **Biochem Soc Trans** 1996 May;24(2):163S

Effect of rhBMP–2 on the osteogenic potential of bone marrow stromal cells from an osteogenesis imperfecta mouse (oim). Balk ML, et al. **Bone** 1997 Jul;21(1):7–15

Interleukin–1 beta enhances and tumor necrosis factor–alpha inhibits bone morphogenetic protein–2–induced alkaline phosphatase activity in MC3T3–E1 osteoblastic cells. Nakase T, et al. **Bone** 1997 Jul;21(1):17–21

Bone morphogenetic protein 2 (BMP–2) enhances BMP–3, BMP–4, and bone cell differentiation marker gene expression during the induction of mineralized bone matrix formation in cultures of fetal rat calvarial osteoblasts. Chen D, et al. **Calcif Tissue Int** 1997 Mar;60(3):283–90

Subtle differences in the mitogenic effects of recombinant human bone morphogenetic proteins –2 to –7 on DNA synthesis on primary bone–forming cells and identification of BMP–2/4 receptor. Mayer H, et al. **Calcif Tissue Int** 1996 Apr;58(4):249–55

FGF–2, BMP–2, and BMP–4 regulate retinoid binding proteins and receptors in 3T3 cells. Means AL, et al. **Cell Growth Differ** 1996 Aug;7(8):989–96

Protooncogene expression in osteogenesis induced by bone morphogenetic protein. Sakano S, et al. **Clin Orthop** 1997 May;(338):240–6

Influence of osteogenic protein–1 (OP–1;BMP–7) and transforming growth factor–beta 1 on bone formation in vitro. Cheifetz S, et al. **Connect Tissue Res** 1996; 35(1–4):71–8

Lipids closely associated with bone morphogenetic protein (BMP)—and induced heterotopic bone formation. With preliminary observations of deficiencies in lipid and osteoinduction in lathyrism in rats. Urist MR, et al. **Connect Tissue Res** 1997;36(1):9–20

Bone regeneration by a combination of osteopromotive membranes with different BMP preparations: a review. Zellin G, et al. **Connect Tissue Res** 1996;35(1–4):279–84 (20 ref.)

MASH1 maintains competence for BMP2–induced neuronal differentiation in post–migratory neural crest cells. Lo L, et al. **Curr Biol** 1997 Jun 1;7(6):440–50

Specific induction of apoptosis in P19 embryonal carcinoma cells by retinoic acid and BMP2 or BMP4. Glozak MA, et al. **Dev Biol** 1996 Nov 1;179(2):458–70

Combined BMP–2 and FGF–4, but neither factor alone, induces cardiogenesis in non–precardiac embryonic mesoderm. Lough J, et al. **Dev Biol** 1996 Aug 25; 178(1):198–202

Msx2 is a transcriptional regulator in the BMP4–mediated programmed cell death pathway. Marazzi G, et al. **Dev Biol** 1997 Jun 15;186(2):127–38

Ectopic application of recombinant BMP–2 and BMP–4 can change patterning of developing chick facial primordia. Barlow AJ, et al. **Development** 1997 Jan;124(2):391–8

Role of BMP–2 and OP–1 (BMP–7) in programmed cell death and skeletogenesis during chick limb development. Macias D, et al. **Development** 1997 Mar;124(6):1109–17

Xmsx–1 modifies mesodermal tissue pattern along dorsoventral axis in Xenopus laevis embryo. Maeda R, et al. **Development** 1997 Jul;124(13):2553–60

Xenopus msx1 mediates epidermal induction and neural inhibition by BMP4. Suzuki A, et al. **Development** 1997 Aug;124(16):3037–44

Concentration–dependent patterning of the Xenopus ectoderm by BMP4 and its signal transducer Smad1. Wilson PA, et al. **Development** 1997 Aug;124(16):3177–84

Differential effects and glucocorticoid potentiation of bone morphogenetic protein action during rat osteoblast differentiation in vitro. Boden SD, et al. **Endocrinology** 1996 Aug;137(8):3401–7

The effects of aging on the bone inductive activity of recombinant human bone morphogenetic protein–2. Fleet JC, et al. **Endocrinology** 1996 Nov;137(11):4605–10

Osteogenic protein–1 stimulates production of insulin–like growth factor binding protein–3 nuclear transcripts in human osteosarcoma cells. Hayden JM, et al. **Endocrinology** 1997 Oct;138(10):4240–7

Osteogenic protein–1 and insulin–like growth factor I synergistically stimulate rat osteoblastic cell differentiation and proliferation. Yeh LC, et al. **Endocrinology** 1997 Oct; 138(10):4181–90

Bone morphogenetic protein–2 inhibits terminal differentiation of myogenic cells by suppressing the transcriptional activity of MyoD and myogenin. Katagiri T, et al. **Exp Cell Res** 1997 Feb 1;230(2):342–51

Bone morphogenetic protein–2 is a regulator of cell adhesion. Nissinen L, et al. **Exp Cell Res** 1997 Feb 1;230(2):377–85

Growth/differentiation factor–5 induces angiogenesis in vivo. Yamashita H, et al. **Exp Cell Res** 1997 Aug 25;235(1):218–26

Heterodimeric bone morphogenetic proteins show enhanced activity in vitro and in vivo. Israel DI, et al. **Growth Factors** 1996;13(3–4):291–300

Complete regeneration of bone in the baboon by recombinant human osteogenic protein–1 (hOP–1, bone morphogenetic protein–7). Ripamonti U, et al. **Growth Factors** 1996; 13(3–4):273–89,color plates III–VIII,pre.bk

Integration of endochondral bone grafts in the presence of demineralized bone matrix. Rabie AB, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):311–8

Pore size of porous hydroxyapatite as the cell–substratum controls BMP–induced osteogenesis. Tsuruga E, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):317–24

Effects of recombinant human bone morphogenetic protein–2 on human bone marrow cells cultured with various biomaterials. Kim KJ, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):279–85

Ectopic induction of cartilage and bone by bovine bone morphogenetic protein using a biodegradable polymeric reservoir. Yamazaki Y, et al. **J Biomed Mater Res** 1996 Jan;30(1):1–4

Importance of delivery systems for growth–stimulatory factors in combination with osteopromotive membranes. An experimental study using rhBMP–2 in rat mandibular defects. Zellin G, et al. **J Biomed Mater Res** 1997 May; 35(2):181–90

Stimulation of proteoglycan synthesis in explants of porcine articular cartilage by recombinant osteogenic protein–1 (bone morphogenetic protein–7). Lietman SA, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1132–7

Combination of osteoinductive bone proteins differentiates mesenchymal C3H/10T1/2 cells specifically to the cartilage lineage. Atkinson BL, et al. **J Cell Biochem** 1997 Jun 1;65(3):325–39

Rapid chondrocyte maturation by serum–free culture with BMP–2 and ascorbic acid. Leboy PS, et al. **J Cell Biochem** 1997 Sep 1;66(3):394–403

Activation of protein kinase A is a pivotal step involved in both BMP–2– and cyclic AMP–induced chondrogenesis. Lee YS, et al. **J Cell Physiol** 1997 Feb;170(2):153–65

BONE MORPHOGENETIC PROTEINS

Effects of osteogenic protein-1 (OP-1, BMP-7) on bone matrix protein expression by fetal rat calvarial cells are differentiation stage specific. Li IW, et al. **J Cell Physiol** 1996 Oct;169(1):115–25

Dependence of mesenchymal cell responses on duration of exposure to bone morphogenetic protein-2 in vitro. Puleo DA. **J Cell Physiol** 1997 Oct;173(1):93–101

Effects of inhibitors of signal transduction pathways on transforming growth factor beta1 and osteogenic protein-1-induced insulinlike growth factor binding protein-3 expression in human bone cells. Srinivasan N, et al. **J Cell Physiol** 1997 Oct;173(1):28–35

Recombinant human bone morphogenetic protein-2 promotes wound healing in rat periodontal fenestration defects. King GN, et al. **J Dent Res** 1997 Aug;76(8):1460–70

Bone morphogenetic proteins induce astroglial differentiation of oligodendroglial–astroglial progenitor cells. Mabie PC, et al. **J Neurosci** 1997 Jun 1;17(11):4112–20

Regulation of the expression of the type-II collagen gene in periosteum-derived cells by three members of the transforming growth factor-beta superfamily. Ballock RT, et al. **J Orthop Res** 1997 May;15(3):463–7

Recombinant bone morphogenetic protein (BMP)-2 regulates costochondral growth plate chondrocytes and induces expression of BMP-2 and BMP-4 in a cell maturation-dependent manner. Erickson DM, et al. **J Orthop Res** 1997 May;15(3):371–80

Treatment with recombinant human macrophage colony-stimulating factor resorbs blood clot and restores osteoclastogenesis in heterotopic bone induced by partially purified native bone morphogenetic protein in osteopetrotic (op/op) mice. Miyazawa K, et al. **J Orthop Res** 1997 May; 15(3):456–62

Recombinant human bone morphogenetic protein-2 maintains the articular chondrocyte phenotype in long-term culture. Sailor LZ, et al. **J Orthop Res** 1996 Nov;14(6):937–45

Ability of commercial demineralized freeze-dried bone allograft to induce new bone formation [see comments] Schwartz Z, et al. **J Periodontol** 1996 Sep;67(9):918–26. Comment in: J Periodontol 1996 Sep;67(9):946–8.

Is there a role for DFDBA in periodontal regenerative therapy? [editorial; comment] Somerman MJ. **J Periodontol** 1996 Sep;67(9):946–8. Comment on: J Periodontol 1996 Sep;67(9):918–26.

Recombinant human bone morphogenetic protein-2 stimulates differentiation in primary cultures of fetal rat calvarial osteoblasts. Chaudhari A, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):31–9

Synergistic effect of BMP-2 and ascorbate on the phenotypic expression of osteoblastic MC3T3-E1 cells. Torii Y, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):25–9

Bone morphogenetic proteins promote astroglial lineage commitment by mammalian subventricular zone progenitor cells. Gross RE, et al. **Neuron** 1996 Oct;17(4):595–606

Enhancement of ectopic bone formation in mice with a deficit in Fas-mediated apoptosis. Mori S, et al. **Pathol Int** 1997 Feb–Mar;47(2–3):112–6

Experimental spinal fusion with recombinant human bone morphogenetic protein-2 without decortication of osseous elements. Sandhu HS, et al. **Spine** 1997 Jun 1; 22(11):1171–80

[The role of bone morphogenetic proteins in compensatory renal growth] Bašić N. **Lijec Vjesn** 1997 Feb;119(2):53–5 (Eng. Abstr.) **(Scr)**

[The effect of osteogenic protein 1 (bone morphogenetic protein 7) on growth in long bones in rats] Grgić M. **Lijec Vjesn** 1996 Sep;118(9):191–4 (Eng. Abstr.) **(Scr)**

PHYSIOLOGY

Mesoderm induction by BMP-4 and -7 heterodimers. Suzuki A, et al. **Biochem Biophys Res Commun** 1997 Mar 6; 232(1):153–6

Bone morphogenetic proteins and C-FOS: early signals in endochondral bone formation. Kaplan FS, et al. **Bone** 1996 Jul;19(1 Suppl):13S–21S (69 ref.)

Growth factors for bone growth and repair: IGF, TGF beta and BMP. Linkhart TA, et al. **Bone** 1996 Jul;19(1 Suppl):1S–12S (96 ref.)

Bone morphogenetic protein receptors. Yamashita H, et al. **Bone** 1996 Dec;19(6):569–74 (52 ref.)

A molecular approach to bone regeneration. Stone CA. **Br J Plast Surg** 1997 Jul;50(5):369–73 (78 ref.)

Osteogenic protein-1 stimulates mRNA levels of BMP-6 and decreases mRNA levels of BMP-2 and -4 in human osteosarcoma cells. Honda Y, et al. **Calcif Tissue Int** 1997 Mar;60(3):297–301

Bone morphogenetic protein-2 stimulates differentiation of cultured spinal ligament cells from patients with ossification of the posterior longitudinal ligament. Kon T, et al. **Calcif Tissue Int** 1997 Mar;60(3):291–6

Cooperation of BMP7 and SHH in the induction of forebrain ventral midline cells by prechordal mesoderm. Dale JK, et al. **Cell** 1997 Jul 25;90(2):257–69

Embryonic patterning: to BMP or not to BMP, that is the question. Graff JM. **Cell** 1997 Apr 18;89(2):171–4 (20 ref.)

Tissue engineering, morphogenesis, and regeneration of the periodontal tissues by bone morphogenetic proteins. Ripamonti U, et al. **Crit Rev Oral Biol Med** 1997; 8(2):154–63 (86 ref.)

Defining the skeletal elements. Vortkamp A. **Curr Biol** 1997 Feb 1;7(2):R104–7 (23 ref.)

Regulation of epidermal induction by BMP2 and BMP7 signaling. Suzuki A, et al. **Dev Biol** 1997 Sep 1; 189(1):112–22

Overlapping expression domains of bone morphogenetic protein family members potentially account for limited tissue defects in BMP7 deficient embryos. Dudley AT, et al. **Dev Dyn** 1997 Mar;208(3):349–62

Bmp-4 acts as a morphogen in dorsoventral mesoderm patterning in Xenopus. Dosch R, et al. **Development** 1997 Jun;124(12):2325–34

BMP signaling during bone pattern determination in the developing limb. Kawakami Y, et al. **Development** 1996 Nov;122(11):3557–66

The role of bone morphogenetic proteins in vertebral development. Monsoro-Burq AH, et al. **Development** 1996 Nov;122(11):3607–16

Failure of ventral body wall closure in mouse embryos lacking a procollagen C-proteinase encoded by Bmp1, a mammalian gene related to Drosophila tolloid. Suzuki N, et al. **Development** 1996 Nov;122(11):3587–95

Mesodermal subdivision along the mediolateral axis in chicken controlled by different concentrations of BMP-4. Tonegawa A, et al. **Development** 1997 May;124(10):1975–84

Mice deficient for BMP2 are nonviable and have defects in amnion/chorion and cardiac development. Zhang H, et al. **Development** 1996 Oct;122(10):2977–86

Regulation of collagenase-3 by bone morphogenetic protein-2 in bone cell cultures. Varghese S, et al. **Endocrinology** 1997 Mar;138(3):1035–40

Osteogenic protein-1 is produced by human fetal trophoblasts in vivo and regulates the synthesis of chorionic gonadotropin and progesterone by trophoblasts in vitro. Martinovic S, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):103–9

Taking the message to the nucleus: MAD protein as a mediator of bone morphogenetic protein signaling. Hofbauer LC, et al. **Eur J Endocrinol** 1996 Dec; 135(6):654–5 (13 ref.)

Bone morphogenetic proteins: neurotrophic roles for midbrain dopaminergic neurons and implications of astroglial cells. Jordan J, et al. **Eur J Neurosci** 1997 Aug; 9(8):1699–709

Constitutively active BMP type I receptors transduce BMP-2 signals without the ligand in C2C12 myoblasts. Akiyama S, et al. **Exp Cell Res** 1997 Sep 15;235(2):362–9

BMP7 null mutation in mice: developmental defects in skeleton, kidney, and eye. Jena N, et al. **Exp Cell Res** 1997 Jan 10;230(1):28–37

BMP-4 mediates interacting signals between the neural tube and skin along the dorsal midline. Takahashi Y, et al. **Genes Cells** 1996 Aug;1(8):775–83

Genetic analysis of dorsoventral pattern formation in the zebrafish: requirement of a BMP-like ventralizing activity and its dorsal repressor. Hammerschmidt M, et al. **Genes Dev** 1996 Oct 1;10(19):2452–61

A role for bone morphogenetic proteins in the induction of cardiac myogenesis. Schultheiss TM, et al. **Genes Dev** 1997 Feb 15;11(4):451–62

Bone morphogenic protein-4. Leong LM, et al. **Int J Biochem Cell Biol** 1996 Dec;28(12):1293–6 (16 ref.)

The in vivo and in vitro effects of bone morphogenetic protein-2 on the development of the chick mandible. Ekanayake S, et al. **Int J Dev Biol** 1997 Feb;41(1):67–81

The effects of extracellular matrix and osteogenic protein-1 on the morphological differentiation of rat sympathetic neurons. Lein P, et al. **Int J Dev Neurosci** 1996 Jun; 14(3):203–15

Perturbation of BMP signaling in somitogenesis resulted in vertebral and rib malformations in the axial skeletal formation [see comments] Nifuji A, et al. **J Bone Miner Res** 1997 Mar;12(3):332–42. Comment in: J Bone Miner Res 1997 Mar;12(3):343–6.

Overexpression of bone morphogenetic protein-6 (BMP-6) in the epidermis of transgenic mice: inhibition or stimulation of proliferation depending on the pattern of transgene expression and formation of psoriatic lesions. Blessing M, et al. **J Cell Biol** 1996 Oct;135(1):227–39

Bone morphogenetic proteins: background and implications for oral reconstruction. A review. Lee MB. **J Clin Periodontol** 1997 Jun;24(6):355–65 (84 ref.)

Producing vascularized bone by heterotopic bone induction and guided tissue regeneration: a silicone membrane-isolated latissimus dorsi island flap in a rat model. Viljanen VV, et al. **J Reconstr Microsurg** 1997 Apr; 13(3):207–14

The dorsalizing and neural inducing gene follistatin is an antagonist of BMP-4. Fainsod A, et al. **Mech Dev** 1997 Apr;63(1):39–50

A graded response to BMP-4 spatially coordinates patterning of the mesoderm and ectoderm in the zebrafish. Neave B, et al. **Mech Dev** 1997 Mar;62(2):183–95

Conservation of BMP signaling in zebrafish mesoderm patterning. Nikaido M, et al. **Mech Dev** 1997 Jan; 61(1–2):75–88

BMPs: actions in flesh and bone [news] Reddi AH. **Nat Med** 1997 Aug;3(8):837–9

Head induction by simultaneous repression of Bmp and Wnt signalling in Xenopus. Glinka A, et al. **Nature** 1997 Oct 2;389(6650):517–9

Antagonism within and around the organizer: BMP inhibitors in vertebrate body patterning. Thomsen GH. **Trends Genet** 1997 Jun;13(6):209–11 (25 ref.)

Bone morphogenetic proteins in the nervous system. Mehler MF, et al. **Trends Neurosci** 1997 Jul;20(7):309–17 (49 ref.)

[Bone induction using bone growth factors: bone morphogenetic proteins] Den Boer FC, et al. **Ned Tijdschr Geneeskd** 1996 Nov 30;140(48):2390–4 (40 ref.) **(Dut)**

[Analysis of genes implicated in osteogenic signaling by osteogenic protein-1 (OP-1) using differential display method] Koyama H. **Kokubyo Gakkai Zasshi** 1997 Jun; 64(2):205–22 (Eng. Abstr.) **(Jpn)**

[Identification of receptors for bone morphogenetic proteins] Nishitoh H. **Kokubyo Gakkai Zasshi** 1997 Mar;64(1):24–37 (Eng. Abstr.) **(Jpn)**

[Subdivision of the mesoderm along the dorso-ventral axis] Takahashi Y, et al. **Tanpakushitsu Kakusan Koso** 1996 Dec; 41(16):2532–41 (29 ref.) **(Jpn)**

THERAPEUTIC USE

Repair of thyroid cartilage defect with bone morphogenetic protein. Cui PC, et al. **Ann Otol Rhinol Laryngol** 1997 Apr; 106(4):326–8

Animal studies of application of rhBMP-2 in maxillofacial reconstruction. Boyne PJ. **Bone** 1996 Jul;19(1 Suppl):83S–92S

A new animal model for maxillary sinus floor augmentation: evaluation parameters. Kirker-Head CA, et al. **Int J Oral Maxillofac Implants** 1997 May–Jun;12(3):403–11

Osteoinductive potential of freeze-dried, biodegradable, poly (glycolic acid–co–lactic acid) disks incorporated with bone morphogenetic protein in skull defects of rats. Miki T, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):402–6

Xenogeneic moose (Alces alces) bone morphogenetic protein (mBMP)-induced repair of critical-size skull defects in sheep. Viljanen VV, et al. **Int J Oral Maxillofac Surg** 1996 Jun;25(3):217–222

The use of a coral composite implant containing bone morphogenetic protein to repair a segmental tibial defect in sheep. Gao TJ, et al. **Int Orthop** 1997;21(3):194–200

An implant of a composite of bovine bone morphogenetic protein and plaster of paris for treatment of femoral shaft nonunions. Bai MH, et al. **Int Surg** 1996 Oct–Dec; 81(4):390–2

Self-regenerating bone implant: ectopic osteoinduction following intramuscular implantation of a combination of rhBMP-2, atelopeptide type I collagen and porous hydroxyapatite. Kusumoto K, et al. **J Craniomaxillofac Surg** 1996 Dec;24(6):360–5

Utilization of type I collagen gel, demineralized bone matrix, and bone morphogenetic protein-2 to enhance autologous bone lumbar spinal fusion. Helm GA, et al. **J Neurosurg** 1997 Jan;86(1):93–100

Periodontal regeneration by application of recombinant human bone morphogenetic protein-2 to horizontal circumferential defects created by experimental periodontitis in beagle dogs. Kinoshita A, et al. **J Periodontol** 1997 Feb;68(2):103–9

Morphology of the lumbar intertransverse process fusion mass in the rabbit model: a comparison between two bone graft materials—rhBMP-2 and autograft. Holliger EH, et al. **J Spinal Disord** 1996 Apr;9(2):125–8

Treatment of segmental defects in long bones using osteopromotive membranes and recombinant human bone morphogenetic protein-2. An experimental study in rabbits. Zellin G, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun;31(2):97–104

Video-assisted lateral intertransverse process arthrodesis. Validation of a new minimally invasive lumbar spinal fusion technique in the rabbit and nonhuman primate (rhesus) models. Boden SD, et al. **Spine** 1996 Nov 15;21(22):2689–97

Effective doses of recombinant human bone morphogenetic protein-2 in experimental spinal fusion. Sandhu HS, et al. **Spine** 1996 Sep 15;21(18):2115–22

BONE NAILS

Our first experiences with the Unreamed Femoral Nail (UFN). Broos P, et al. **Acta Chir Belg** 1997 Jan–Feb; 97(1):27–32

Operative treatment of supracondylar fractures of the humerus in children: the Cincinnati experience. Mehlman CT, et al. **Acta Orthop Belg** 1996;62 Suppl 1:41–50 (49 ref.)

Progression of human bone ingrowth into porous-coated implants. Rate of bone ingrowth in humans. Hofmann AA, et al. **Acta Orthop Scand** 1997 Apr;68(2):161–6

Social function after cervical hip fracture. A comparison of hook-pins and total hip replacement in 47 patients. Jónsson B, et al. **Acta Orthop Scand** 1996 Oct;67(5):431–4

External fixation versus percutaneous pinning for unstable Colles' fracture. Equal outcome in a randomized study of 60 patients. Ludvigsen TC, et al. **Acta Orthop Scand** 1997 Jun;68(3):255–8

Extraction of femoral nails. Can we build a better mousetrap? Bartlett CS 3rd, et al. **Am J Orthop** 1996 Aug;25(8):522, 570

Biomechanics of rigid tibial nail insertion sites. Carr JB, et al. **Am J Orthop** 1996 Aug;25(8):553–6

Colles' fracture: efficacy of pins and plaster [letter; comment] Charnley AD. **Am J Orthop** 1997 Jun;26(6):413, 445. Comment on: Am J Orthop 1997 Jan;26(1):45–50.

Anatomic considerations of halo pin placement. Ebraheim NA, et al. **Am J Orthop** 1996 Nov;25(11):754–6

"Krammer splint technique" for immediate measuring of

intramedullary nails. Mosheiff R, et al. **Am J Orthop** 1997 May;26(5):375

Colles' fracture: efficacy of pins and plaster [see comments] Parry BR. **Am J Orthop** 1997 Jan;26(1):45–50. Comment in: Am J Orthop 1997 Jun;26(6):413, 445.

Use of a 14–gauge needle as a wire guide. Waldron VD. **Am J Orthop** 1997 Jan;26(1):51

The effect of skull–pin insertion on cerebrospinal fluid pressure and cerebral perfusion pressure: influence of sufentanil and fentanyl. Jamali S, et al. **Anesth Analg** 1997 Jun;84(6):1292–6

Biodegradable self–reinforced polyglycolide screws and rods in the fixation of displaced malleolar fractures in the elderly. A comparison with metallic implants. Kankare J, et al. **Ann Chir Gynaecol** 1996;85(3):263–70

Absorbable pins in the treatment of hand fractures. Pelto–Vasenius K, et al. **Ann Chir Gynaecol** 1996; 85(4):353–8

Pouteau–Colles fracture: double–closed "basket–like" pinning according to Kapandji. Apropos of a homogeneous series of 70 cases. Epinette JA, et al. **Ann Chir Main** 1982; 1(1):71–83 **(Eng, Fre)**

Does a single device prevent further slipping of the epiphysis in children with slipped capital femoral epiphysis? Jerre R, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):348–51

Placement of the distal locking screws of the femoral intramedullary nail without radiation. Steriopoulos KA, et al. **Arch Orthop Trauma Surg** 1996;115(1):43–4

Consistent and accurate graft passage and interference screw guide wire placement during single incision anterior cruciate ligament reconstruction. McGuire DA, et al. **Arthroscopy** 1997 Aug;13(4):526–9

Osteochondritis dissecans of the patella: arthroscopic fixation with bioabsorbable pins. Matava MJ, et al. **Arthroscopy** 1997 Feb;13(1):124–8

New bioresorbable pin for the reduction of small bony fragments: design, mechanical properties and in vitro degradation. Claes LE, et al. **Biomaterials** 1996 Aug; 17(16):1621–6

Effect of thermal treatment on sterility, molecular and mechanical properties of various polylactides. 2. Poly(L/D–lactide) and poly(L/DL–lactide). Gogolewski S, et al. **Biomaterials** 1997 Feb;18(3):251–5

Long–term in vivo degradation and bone reaction to various polylactides. 1. One–year results. Mainil–Varlet P, et al. **Biomaterials** 1997 Feb;18(3):257–66

Mechanical evaluation of humeral interlocking intramedullary nails. Lewis G. **Biomed Mater Eng** 1997; 7(2):149–57 (30 ref.)

Improving the distal fixation of intramedullary nails in osteoporotic bone. Kummer FJ, et al. **Bull Hosp Jt Dis** 1997;56(2):88–90

Locked nailing of the femur and tibia: minimizing operative difficulties. Petri GJ, et al. **Bull Hosp Jt Dis** 1996; 54(4):255–7

Seidel locked nailing for the treatment of unstable fractures and nonunion of the humerus. Corradi M, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):189–95 **(Eng, Ita)**

The long gamma nail: indications and results. Di Puccio G, et al. **Chir Organi Mov** 1997 Jan–Mar;82(1):49–52 **(Eng, Ita)**

Gamma nailing for the treatment of subtrochanteric nonunion: two clinical cases. Prosperi P, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):213–6 (10 ref.) **(Eng, Ita)**

Reconstruction by Grosse–Kempf nailing in resections for bone tumor. Tigani D, et al. **Chir Organi Mov** 1996 Jan–Mar;81(1):31–41 **(Eng, Ita)**

Ender nail in unstable closed tibial fractures. Huang YL, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Aug; 58(2):84–8

Treatment of humeral shaft fractures by retrograde locked nailing. Lin J, et al. **Clin Orthop** 1997 Sep;(342):147–55

Anatomic considerations for safe placement of calcaneal pins. Mekhail AO, et al. **Clin Orthop** 1996 Nov;(332):254–9

Difficulty in removal of certain intramedullary nails. Seligson D, et al. **Clin Orthop** 1997 Jul;(340):202–6

Decision making errors in the use of interlocking tibial nails. Templeman D, et al. **Clin Orthop** 1997 Jun;(339):65–70

Comparison of reconstruction nails for high subtrochanteric femur fracture fixation. Wheeler DL, et al. **Clin Orthop** 1997 May;(338):231–9

Geometric properties of the fractured tibia stabilized by unreamed interlocking nail: development of a three–dimensional finite element model. Raunest J, et al. **Comput Biomed Res** 1996 Aug;29(4):259–70

Removal of femoral Kuntscher nails in selected cases under local anaesthesia. Onwuanyi ON, et al. **East Afr Med J** 1996 Dec;73(12):835–7

Treatment of pathological fractures of the humeral shaft due to bone metastases: a comparison of intramedullary locking nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6

Lumbosacral arthrodesis using pedicular screws and ringed rods. Beguiristain JL, et al. **Eur Spine J** 1997;6(4):233–8

Posterolateral lumbar fusion using facet joint fixation with biodegradable rods: a pilot study. Johnsson R, et al. **Eur Spine J** 1997;6(2):144–8

Osteolytic changes after polyglycolide pin fixation in chevron osteotomy. Pelto–Vasenius K, et al. **Foot Ankle Int** 1997 Jan;18(1):21–5

Comparison of bioabsorbable pins and Kirschner wires in the fixation of chevron osteotomies for hallux valgus. Winemaker MJ, et al. **Foot Ankle Int** 1996 Oct;17(10):623–8

Retained portion of latex glove during femoral nailing. Case report. Sadat–Ali M, et al. **Indian J Med Sci** 1996 Nov; 50(11):308–9

A technique for removal of fractured locking screws from an intramedullary nail. Davies NM, et al. **Injury** 1997 Mar; 28(2):159

Heterotopic ossification: a comparison between reamed and unreamed femoral nailing. Furlong AJ, et al. **Injury** 1997 Jan;28(1):9–14

Reamed against unreamed nailing of the femoral diaphysis: a retrospective study of healing time. Giannoudis PV, et al. **Injury** 1997 Jan;28(1):15–8

Complications following the use of the Marchetti flexible intramedullary nail. Hargreaves DG, et al. **Injury** 1996 Dec; 27(10):735–8

Preventing guide wire removal during intramedullary reaming. O'Connor D, et al. **Injury** 1997 Mar;28(2):160–1

An improved screw design for locked intramedullary nailing. Pennig D. **Injury** 1997 Mar;28(2):162–4

Intramedullary locked nailing of femur and tibia: insertion of distal locking screws without image intensifier. Pennig D, et al. **Injury** 1997 May;28(4):323–6

An unorthodox method of removing a Küntscher nail. Ting P, et al. **Injury** 1996 Dec;27(10):750–2

Unreamed nailing of tibial fractures––a prospective study of the routine use of the unreamed tibial nail. Harrington P, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):282–5

The deformation of small diameter solid tibial nails with unreamed intramedullary insertion. Krettek C, et al. **J Biomech** 1997 Apr;30(4):391–4

Stress analysis of halo pin insertion by non–linear finite element modeling. Voor MJ, et al. **J Biomech** 1997 Sep; 30(9):903–9

Positional stability of polylactide pins with various surface textures in sheep tibia. Mainil–Varlet P, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):351–9

Arthrodesis of the knee with a modular titanium intramedullary nail. Arroyo JS, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):26–35

Displaced isolated fractures of the tibial shaft treated with either a cast or intramedullary nailing. An outcome analysis of matched pairs of patients. Bone LB, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1336–41

Locking intramedullary nailing with and without reaming for open fractures of the tibial shaft. A prospective, randomized study. Keating JF, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):334–41

Removal of a broken solid femoral nail: a simple push–out technique. A case report. Krettek C, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):247–51

Hydroxyapatite coating of threaded pins enhances fixation. Magyar G, et al. **J Bone Joint Surg Br** 1997 May; 79(3):487–9

Femoral lengthening: callotasis with Ilizarov external fixator alone and with intramedullary locking nail. Lee WH, et al. **J Formos Med Assoc** 1997 Feb;96(2):98–102

Percutaneous pinning of distal radius fractures: a biomechanical study. Naidu SH, et al. **J Hand Surg [Am]** 1997 Mar;22(2):252–7

Bone flap fixation: a new technique. Technical note. Spetzler RF. **J Neurosurg** 1997 Sep;87(3):475–6

An in vitro comparison of the mechanical characteristics of three sagittal ramus osteotomy fixation techniques. Murphy MT, et al. **J Oral Maxillofac Surg** 1997 May;55(5):489–94; discussion 494–5

Comparative biomechanical analysis of supracondylar femur fracture fixation: locked intramedullary nail versus 95–degree angled plate. David SM, et al. **J Orthop Trauma** 1997 Jul;11(5):344–50

Technique for removal of intramedullary nails when there is failure of the proximal extraction device: a report of three cases. Georgiadis GM, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):130–2

Removal of intramedullary nails from the femur: a review of 45 cases. Husain A, et al. **J Orthop Trauma** 1996; 10(8):560–2

Management of humeral nonunion after the failure of locking intramedullary nails [letter; comment] Johnson KO. **J Orthop Trauma** 1997 Apr;11(3):238–9. Comment on: J Orthop Trauma 1996;10(7):492–9.

Biomechanical, scanning electron microscopy, and microhardness analyses of the bone–pin interface in hydroxyapatite coated versus uncoated pins. Moroni A, et al. **J Orthop Trauma** 1997 Apr;11(3):154–61

Stereo fluoroscopy–assisted distal interlocking of intramedullary nails. Ohe T, et al. **J Orthop Trauma** 1997 May;11(4):300–3

Fat embolism and death during prophylactic osteosynthesis of a metastatic femur using an unreamed femoral nail. Peter RE, et al. **J Orthop Trauma** 1997 Apr;11(3):233–4

Plaster cast versus percutaneous pin fixation for comminuted fractures of the distal radius in patients between 46 and 65 years of age. Rodríguez–Merchán EC. **J Orthop Trauma** 1997 Apr;11(3):212–7

External fixation of the calcaneus and talus: an anatomical study for safe pin insertion. Santi MD, et al. **J Orthop Trauma** 1996;10(7):487–91

Humeral rodding in osteogenesis imperfecta [see comments] Gargan MF, et al. **J Pediatr Orthop** 1996 Nov–Dec; 16(6):719–22. Comment in: J Pediatr Orthop 1996 Nov–Dec;16(6):701–3.

Flexible intramedullary nailing as fracture treatment in children. Huber RI, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):602–5

Modern trends in internal fixation of femoral shaft fractures in children. A critical review. Parsch KD. **J Pediatr Orthop B** 1997 Apr;6(2):117–25 (78 ref.)

Percutaneous reduction for closed nailing of femoral shaft fractures [letter; comment] Parker P. **J R Coll Surg Edinb** 1997 Feb;42(1):61. Comment on: J R Coll Surg Edinb 1996 Aug;41(4):267–8.

The spinal nail: a new implant for short–segment anterior instrumentation of the thoracolumbar spine. Dawson JM, et al. **J Spinal Disord** 1996 Aug;9(4):299–305

Extraction of Kuntscher (femoral) implant under local anaesthesia: an appraisal of patients tolerance and merits. Onwuanyi ON, et al. **JPMA J Pak Med Assoc** 1997 Jun; 47(6):153–5

Treatment of comminuted subtrochanteric femoral fractures in a young population with a reconstruction nail. Taylor DC, et al. **Mil Med** 1996 Dec;161(12):735–8 (30 ref.)

Ender nails: an alternative for intramedullary fixation of femoral shaft fractures in children and adolescents. McGraw JJ, et al. **South Med J** 1997 Jul;90(7):694–6

New anterior instrumentation for the management of thoracolumbar and lumbar scoliosis. Application of the Kaneda two–rod system. Kaneda K, et al. **Spine** 1996 May 15;21(10):1250–61; discussion 1261–2

Anterior instrumentation of the spine in thoracic and thoracolumbar fractures: the single rod versus the double rod Slot–Zielke device. van Loon JL, et al. **Spine** 1996 Mar 15;21(6):734–40

In situ rigidity of a new sliding rod for management of the growing spine in Duchenne muscular dystrophy. Wilke HJ, et al. **Spine** 1996 Sep 1;21(17):1957–61

[Advantages of secured nailing] Belán P, et al. **Rozhl Chir** 1997 May;76(5):223–7 (Eng. Abstr.) **(Cze)**

[The Medin intramedullary nails] Palarčik J, et al. **Rozhl Chir** 1996 Apr;75(4):206–12 (Eng. Abstr.) **(Cze)**

[Recent, closed trapezio–metacarpal luxation, treated by pinning.Apropos of 7 cases with a median follow–up of 8 years] Obert L, et al. **Ann Chir Main Memb Super** 1997; 16(2):102–10 (Eng. Abstr.) **(Fre)**

[Reconstructive nailing] Asencio G, et al. **Chirurgie** 1997; 122(3):175–7 **(Fre)**

[AO unreamed femur nails. Initial results] Elias BE, et al. **Chirurgie** 1997;122(3):172–3; discussion 173–4 **(Fre)**

[The Staca nail–plate in the treatment of trochanteric fractures] Cuny C, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):410–6 (Eng. Abstr.) **(Fre)**

[Comparative stability evaluation of dynamic hip screw and gamma–nail osteosyntheses in unstable pertrochanteric femoral osteotomies] Kaiser W, et al. **Langenbecks Arch Chir** 1997;382(2):100–6 (Eng. Abstr.) **(Ger)**

[Biomechanics of femoral interlocking nails at the bone–implant transition] Schandelmaier P, et al. **Langenbecks Arch Chir** 1997;382(3):167–72 (Eng. Abstr.) **(Ger)**

[Gamma nail osteosynthesis––progress in geriatric surgery] Domagk A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:999–1001 (Eng. Abstr.) **(Ger)**

[Fractures of the lower extremity––including femoral neck fractures––in advanced age] Hax PM. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1002–3 (Eng. Abstr.) **(Ger)**

[Full weight bearing after gamma nail osteosynthesis] Kirchgesser G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:994–5 **(Ger)**

[A new roentgen ray–free aiming technique for distal locking screw boring of the unreamed tibial nail] Krettek C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:947–50 (Eng. Abstr.) **(Ger)**

[Pertrochanteric femoral fracture in elderly patients––injury pattern and management with gamma nailing] Ruland WO. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:996–8 (Eng. Abstr.) **(Ger)**

[The UFN–system (unreamed femoral nail)––avoidable intra– and postoperative complications] Stockenhuber N, et al. **Swiss Surg** 1997;3(2):61–8 (Eng. Abstr.) **(Ger)**

[Unstable fractures of the distal radius. External fixation or percutaneous pinning?] Ludvigsen TC, et al. **Tidsskr Nor Laegeforen** 1996 Oct 30;116(26):3093–7 (Eng. Abstr.) **(Nor)**

[Treatment of tibial shaft fracture by Ender's closed intramedullary nailing] Semenowicz J, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):467–72 (Eng. Abstr.) **(Pol)**

[The use of the Ender nail in the osteosynthesis of diaphyseal fractures of the femur in children] Mgoian GKh, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):68 **(Rus)**

[Swedish long–term follow–up of hip physiolysis. Best results with in situ nailing] Hägglund G. **Lakartidningen** 1996 Sep 25;93(39):3356–8 (12 ref.) **(Swe)**

ADVERSE EFFECTS

The prevention of complications with the Gamma Locking Nail [see comments] Lyddon DW Jr. **Am J Orthop** 1996 May;25(5):357–63 (23 ref.). Comment in: Am J Orthop 1996

BONE NAILS

Oct;25(10):729.
Prevention of complications with the gamma nail [letter; comment] Rosenthal RE. **Am J Orthop** 1996 Oct;25(10):729 . Comment on: Am J Orthop 1996 May;25(5):357–63.
Staphylococcus infection complicating the application of a supracondylar nail to a fracture proximal to a total knee arthroplasty [letter] Seligson D, et al. **Am J Orthop** 1996 May;25(5):384
Failure of femoral nailing in the elderly. Harrington P, et al. **Arch Orthop Trauma Surg** 1997;116(4):244–5
Distal fracture with hypertrophic non-union: a complication of Seidel humeral nail. Cheng J, et al. **Injury** 1997 Apr; 28(3):223–6
Avascular necrosis of the head of femur after intramedullary nailing for fracture of the shaft of the femur. Shahane SA, et al. **Injury** 1996 Nov;27(9):663–5
Complications and technical problems with the gamma nail. Albareda J, et al. **Int Orthop** 1996;20(1):47–50
The burst phenomenon, an animal model simulating the long-term tissue response on PLLA interlocking nails. van der Elst M, et al. **J Biomed Mater Res** 1996 Feb; 30(2):139–43
Fracture on removal of the ACE tibial nail. Takakuwa M, et al. **J Bone Joint Surg Br** 1997 May;79(3):444–5
Abduction strength following intramedullary nailing of the femur. Bain GI, et al. **J Orthop Trauma** 1997 Feb–Mar; 11(2):93–7
Recalcitrant femoral pseudarthrosis healed with a torsionally stiff intramedullary nail. Chandler RW.
J Orthop Trauma 1996;10(2):135–7
Knee pain after intramedullary tibial nailing: its incidence, etiology, and outcome. Court-Brown CM, et al.
J Orthop Trauma 1997 Feb–Mar;11(2):103–5
Knee pain after tibial nailing. Keating JF, et al.
J Orthop Trauma 1997 Jan;11(1):10–3
Neurologic complications of pediatric femoral nailing. Riew KD, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):606–12
Intramedullary pressure and bone marrow fat intravasation in unreamed femoral nailing. Kröpfl A, et al. **J Trauma** 1997 May;42(5):946–54
A technical report reviewing the use of the 11-mm Gamma nail: interoperative femur fracture incidence. Boriani S, et al. **Orthopedics** 1996 Jul;19(7):597–600
Lateral plantar nerve entrapment following Rush rod fixation for congenital pseudarthrosis of the tibia. Rao SB, et al. **Orthopedics** 1996 Dec;19(12):1043–5, discussion 1046
The risk of neurovascular injury with distal locking screws of humeral intramedullary nails [see comments] Rupp RE, et al. **Orthopedics** 1996 Jul;19(7):593–5. Comment in: Orthopedics 1996 Nov;19(11):926–7.
Threaded steinmann pin fusion of the craniovertebral junction. Apostolides PJ, et al. **Spine** 1996 Jul 15; 21(14):1630–7
[Criticisms against annealing and the concept of solid nails] Heim D. **Chirurgie** 1997;122(3):170–1 (11 ref.) **(Fre)**

CLASSIFICATION

Fatigue properties of a twelve-hole versus a five-hole intramedullary supracondylar nail. Voor MJ, et al.
J Orthop Trauma 1997 Feb–Mar;11(2):98–102

STANDARDS

Long-term results of intramedullary pinning of forearm fractures in a developing country. Wal A.
Aust N Z J Surg 1997 Sep;67(9):622–4
The effect of thermal treatment on sterility, molecular and mechanical properties of various polylactides. I. Poly(L-lactide). Gogolewski S, et al. **Biomaterials** 1996 Mar;17(5):523–8
Hydroxyapatite coated external fixation pins: an experimental study. Caja VL, et al. **Clin Orthop** 1996 Apr;(325):269–75
Modified transverse locking nail fixation of proximal femoral fractures. Ziran BH, et al. **Clin Orthop** 1997 Jun;(339):82–91
Biomechanical study of the Grosse-Kempf femoral nail. Sánchez Gimeno M, et al. **Int Orthop** 1997;21(2):115–8
Biomechanical study of nine different tibia locking nails. Schandelmaier P, et al. **J Orthop Trauma** 1996;10(1):37–44

VETERINARY

Application of ventral pins and polymethylmethacrylate for the management of atlantoaxial instability: results in nine dogs. Schulz KS, et al. **Vet Surg** 1997 Jul–Aug;26(4):317–25

BONE NEOPLASMS

Pediatric solitary plasmacytoma. Pavithran K, et al.
Acta Oncol 1997;36(1):83–4
Parosteal osteosarcoma of the tarsus. Kumm DA, et al.
Arch Orthop Trauma Surg 1997;116(6–7):437–9
Malignant fibrous histiocytoma of bone. A clinicopathologic study of 81 patients. Nishida J, et al. **Cancer** 1997 Feb 1; 79(3):482–93
Chondrosarcoma of small bones of the hands and feet. Ogose A, et al. **Cancer** 1997 Jul 1;80(1):50–9
Poor prognosis Ewing's sarcoma and peripheral primitive neuroectodermal tumours (PNET). Maurel J, et al.
Cancer Treat Rev 1996 Nov;22(6):425–36 (80 ref.)
Late recurrence and endocranial metastasis caused by giant cell tumor. Segura J, et al. **Chir Organi Mov** 1996 Sep–Dec; 81(4):413–9 **(Eng, Ita)**
Ewing's sarcoma and extracranial primitive neuroectodermal tumors. Granowetter L. **Curr Opin Oncol** 1996 Jul; 8(4):305–10 (48 ref.)
Osteosarcoma and other tumors of bone. Mertens WC, et al. **Curr Opin Oncol** 1996 Jul;8(4):299–304 (51 ref.)
Osteosarcoma and other tumors of bone. Mertens WC, et al. **Curr Opin Oncol** 1997 Jul;9(4):360–5 (47 ref.)
Chondroblastoma of the foot. Fink BR, et al.
Foot Ankle Int 1997 Apr;18(4):236–42 (19 ref.)
Pathogenesis and management of bone lesions in multiple myeloma. Bataille R, et al.
Hematol Oncol Clin North Am 1997 Apr;11(2):349–61 (80 ref.)
Hip pains in a recreational runner. Batt ME, et al.
Int J Sports Med 1995 Nov;16(8):563–7
Chondromyxoid fibroma. Baron RL, et al.
J Am Podiatr Med Assoc 1996 May;86(5):212–6
Osteoid osteoma of the radial diaphysis. Nakamichi K, et al. **J Hand Surg [Br]** 1996 Oct;21(5):688–9
Late effects of therapy in survivors of Ewing's sarcoma family tumors. Novakovic B, et al.
J Pediatr Hematol Oncol 1997 May–Jun;19(3):220–5
Second malignant neoplasms in children after treatment of soft tissue sarcoma. Rich DC, et al. **J Pediatr Surg** 1997 Feb;32(2):369–72
Intraarticular osteoid osteoma of the distal humerus. Heybeli N, et al. **J Shoulder Elbow Surg** 1997 May–Jun;6(3):311–3
Development of donor-derived prostate cancer in a recipient following orthotopic heart transplantation [see comments] Loh E, et al. **JAMA** 1997 Jan 8;277(2):133–7. Comment in: JAMA 1997 Jan 8;277(2):154–5. Comment in: JAMA 1997 May 7;277(17):1354; discussion 1355. Comment in: JAMA 1997 May 7;277(17):1355.
Intra-osseous lipoma of the calcaneus [letter] Muthuphei MN. **S Afr Med J** 1996 Dec;86(12):1554–5
Malignant lymphoma involving the patella. Cha S, et al.
Skeletal Radiol 1996 Nov;25(8):783–5
[Solitary plasmacytomas of bone and extramedullary plasmacytomas] Yang D, et al.
Chung Hua Chung Liu Tsa Chih 1996 Jan;18(1):41–4 (Eng. Abstr.) **(Chi)**
[Costal chondrosarcoma. Apropos of 4 cases] Hernández Ortiz C, et al. **Ann Chir** 1997;51(2):152–7 (Eng. Abstr.) **(Fre)**
[Proceeding of the 30th annual musculoskeletal tumor meeting of the Japanese Orthopedic Association. Nagoya, Japan. July 18–19, 1997. Abstracts]
Nippon Seikeigeka Gakkai Zasshi 1997 Jun;71(6):S927–1287 **(Jpn)**
[A case of solitary plasmocytoma of the humerus in complete remission for 15 years (letter)] Marcos Sánchez F, et al.
An Med Interna 1996 Oct;13(10):513–4 **(Spa)**
[Primary tumors of the thoracic wall (1991–1994)] Arrabal Sánchez R, et al. **Arch Bronconeumol** 1996 Oct;32(8):384–7 (Eng. Abstr.) **(Spa)**

BLOOD

Serum PICP as a bone formation marker in 89Sr and external beam radiotherapy of prostatic bony metastases. Papatheofanis FJ. **Br J Radiol** 1997 Jun;70(834):594–8
Prostate carcinoma staging. Clinical utility of bone alkaline phosphatase in addition to prostate specific antigen. Morote J, et al. **Cancer** 1996 Dec 1;78(11):2374–8
Bone sialoprotein in serum of patients with malignant bone diseases. Withold W, et al. **Clin Chem** 1997 Jan;43(1):85–91
Pyridinium crosslinks in the monitoring of patients with bone metastases from carcinoma of the breast. Walne AJ, et al.
Clin Oncol (R Coll Radiol) 1997;9(1):30–4
Diagnostic value of some biochemical bone markers for the detection of bone metastases in prostate cancer. Westerhuis LW, et al. **Eur J Clin Chem Clin Biochem** 1997 Feb; 35(2):89–94
Methotrexate serum concentration and histological response to multiagent primary chemotherapy for osteosarcoma of the limbs. Bacci G, et al. **J Chemother** 1996 Dec;8(6):472–8
Serum 1,25-dihydroxyvitamin D may be related inversely to disease activity in breast cancer patients with bone metastases. Mawer EB, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):118–22
Prognostic value of the doubling time of serum C-reactive protein and alkaline phosphatase levels in primary bone and soft tissue tumors. Yudoh K, et al.
Jpn J Cancer Res 1996 Dec;87(12):1288–95
Metastatic prostate cancer: assessment of response to systemic therapy. Dreicer R. **Semin Urol Oncol** 1997 Feb;15(1):28–32 (36 ref.)
Serum markers of bone metastases in postmenopausal breast cancer patients treated with formestane. Martinetti A, et al. **Tumour Biol** 1997;18(4):197–205
[Performances of two kits for parathyroid hormone-related peptide (PTHrP) assay in the additional study of malignant hypercalcemias] Minebois-Villegas A, et al.
Pathol Biol (Paris) 1995 Nov;43(9):799–805 (Eng. Abstr.) **(Fre)**
[Studies on alpha 2 macroglobulin deficiency in association with cancer metastasis] Kanoh Y, et al.
Nihon Rinsho Meneki Gakkai Kaishi 1997 Feb;20(1):30–43 (Eng. Abstr.) **(Jpn)**

CHEMICALLY INDUCED

Need for evidence about fluoridation [letter] Herbison P.
Aust N Z J Public Health 1997 Jun;21(3):344–5
Evidence on fluoridation [letter; comment] Webb PM, et al.
Aust N Z J Public Health 1997 Jun;21(3):345–6. Comment on: Aust N Z J Public Health 1997 Apr;21(2):187–90.
Proliferative bone lesions in rats fed a diet containing glucocorticoid for up to two years. Zwicker GM, et al.
Toxicol Pathol 1996 Mar–Apr;24(2):246–50

CHEMISTRY

Prostaglandin levels of primary bone tumor tissues correlate with peritumoral edema demonstrated by magnetic resonance imaging. Yamamura S, et al. **Cancer** 1997 Jan 15;79(2):255–61
Osteogenic protein-1 stimulates production of insulin-like growth factor binding protein-3 nuclear transcripts in human osteosarcoma cells. Hayden JM, et al.
Endocrinology 1997 Oct;138(10):4240–7
Analysis of the presence of osteocalcin, S-100 protein, and proliferating cell nuclear antigen in cells of various types of osteosarcomas. Chano T, et al. **Eur J Histochem** 1996; 40(3):189–98
C-erb B-2 staining in primary synovial chondromatosis: a comparison with other cartilaginous tumours. Davis RI, et al. **J Pathol** 1996 Aug;179(4):392–5
Cytokeratin subtyping in chordomas and the fetal notochord: an immunohistochemical analysis of aberrant expression. Naka T, et al. **Mod Pathol** 1997 Jun;10(6):545–51

CLASSIFICATION

[TNM classification of bone and soft tissue sarcomas] Fukuma H, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):1035–40 (9 ref.) (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Pathological fractures in bone sarcomas. Morris HG.
Acta Orthop Scand Suppl 1997 Feb;273:106–7
Bisphosphonates for controlling pain from metastatic bone disease [see comments] Diener KM.
Am J Health Syst Pharm 1996 Aug 15;53(16):1917–27 (67 ref.). Comment in: Am J Health Syst Pharm 1996 Aug 15;53(16):1907.
Pain management for bone metastases [editorial; comment] LaCivita CL. **Am J Health Syst Pharm** 1996 Aug 15; 53(16):1907. Comment on: Am J Health Syst Pharm 1996 Aug 15;53(16):1917–27.
Multiple myeloma of the liver presenting as nonobstructive jaundice [letter] Pastor E, et al. **Am J Hematol** 1996 Nov; 53(3):205–6
Amelanotic melanoma and hypercalcaemia [letter] Green G, et al. **Aust N Z J Med** 1996 Oct;26(5):716–7
Osteosarcomatosis with Rothmund-Thomson syndrome. el-Khoury JM, et al. **Br J Radiol** 1997 Feb;70:215–8 (11 ref.)
Use of bisphosphonates in cancer patients. Body JJ, et al.
Cancer Treat Rev 1996 Jul;22(4):265–87 (97 ref.)
Indications for the treatment of pathologic fracture in tumors of bone. Casadei R, et al. **Chir Organi Mov** 1996 Jan–Mar; 81(1):21–30 **(Eng, Ita)**
Use of a bisphosphonate (etidronate) to improve metastatic bone pain in three hospice patients. Gloth FM 3d.
Clin J Pain 1995 Dec;11(4):333–5
Carcinoma of the thyroid manifested as hyperthyroidism caused by functional bone metastasis. Ikejiri K, et al.
Clin Nucl Med 1997 Apr;22(4):227–30
Clubbing of single digit: an unusual cause. De Smet L, et al. **Clin Rheumatol** 1996 May;15(3):310–1
The spectrum of osteoarticular and soft tissue changes in patients with human immunodeficiency virus (HIV) infection. Tehranzadeh J, et al. **Crit Rev Diagn Imaging** 1996 Sep;37(4):305–47 (43 ref.)
Proteus syndrome associated with a sacrococcygeal teratoma; a rare combination. Zachariou Z, et al.
Eur J Pediatr Surg 1996 Aug;6(4):249–51
Treatment of pathological fractures of the humeral shaft due to bone metastases: a comparison of intramedullary locking nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6
Treatment of humeral pathological fractures by internal fixation and methylmetacrylate injection. Vandeweyer E, et al. **Eur J Surg Oncol** 1997 Jun;23(3):238–42
Rupture of a popliteal artery pseudo-aneurysm secondary to a fibular osteochondroma. Ballaro A, et al.
Eur J Vasc Endovasc Surg 1997 Aug;14(2):151–2 (5 ref.)
Bilateral demyelinating neuropathy in a solitary lytic and sclerotic myeloma of the proximal humerus: a case report. Schindler OS, et al. **Int Orthop** 1997;21(1):59–51
Osteoblastoma of the humerus associated with type-I Gaucher's disease. A case report. Kenan S, et al.
J Bone Joint Surg Br 1996 Sep;78(5):702–5
Pain caused by bone metastasis in endocrine-therapy-refractory prostate cancer. Akakura K, et al. **J Cancer Res Clin Oncol** 1996;122(10):633–7
Chondrosarcoma of the hand arising in a young patient with multiple hereditary exostoses. Saunders C, et al.
J Hand Surg [Br] 1997 Apr;22(2):237–42 (38 ref.)
Treating bone metastases: sparing the patient needless pain [news] McBride G. **J Natl Cancer Inst** 1997 Mar 19; 89(6):418–9
Effects of bisphosphonate (pamidronate) on bone resorption resulting from metastasis of a squamous cell carcinoma: report of an autopsy case and evaluation of bone resorbing activity in an experimental animal model. Hiraga T, et al.

J Oral Maxillofac Surg 1996 Nov;54(11):1327–33

Significant morbidity associated with bone metastases in a patient with breast cancer. Oneschuk D, et al. **J Palliat Care** 1996 Winter;12(4):51–4

Multifocal osteosarcoma in a patient with Fanconi anemia. Levinson S, et al. **J Pediatr Hematol Oncol** 1997 May–Jun; 19(3):251–3

Involvement of an enchondroma in relapsing polychondritis. Poole PJ, et al. **J Rheumatol** 1996 Jan;23(1):186–8

Rapid development of subscapular exostosis bursata. Jacobi CA, et al. **J Shoulder Elbow Surg** 1997 Mar–Apr;6(2):164–6

Operative management of impending pathological fractures: a critical analysis of therapy. Van Geffen E, et al. **J Surg Oncol** 1997 Mar;64(3):190–4

Malignant bone pain: pathophysiology and treatment. Mercadante S. **Pain** 1997 Jan;69(1–2):1–18 (166 ref.)

Clinical quiz. Osteoid osteoma. Webb NJ, et al. **Pediatr Nephrol** 1996 Aug;10(4):540–2

Bilateral choroidal osteoma associated with bilateral total blindness. Shields JA, et al. **Retina** 1996;16(5):445–7

Cauda equina syndrome caused by osteosarcoma in a patient with Paget's disease of bone: value of modern imaging. Cots R, et al. **Rev Rhum Engl Ed** 1995 Dec;62(11):807–8

Osteochondroma in a patient with juvenile ankylosing spondylitis associated with idiopathic thrombocytopenic purpura and alpha thalassemia. Tsai CY, et al. **Scand J Rheumatol** 1996;25(1):61–2

Chondrosarcoma as a complicating factor in Paget's disease of bone. Brandolini F, et al. **Skeletal Radiol** 1997 Aug; 26(8):497–500 (16 ref.)

Primitive neuroectodermal tumor in a child with tuberous sclerosis. Hindman BW, et al. **Skeletal Radiol** 1997 Mar; 26(3):184–7

Hyperparathyroidism associated with sarcoma of bone. Smith J, et al. **Skeletal Radiol** 1997 Feb;26(2):107–12

Long-term subcutaneous infusion of midazolam for refractory delirium in terminal breast cancer. Ramani S, et al. **South Med J** 1996 Nov;89(11):1101–3 (12 ref.)

Ketoconazole-induced adrenal crisis in a patient with metastatic prostatic adenocarcinoma: case report and review of the literature. Sarver RG, et al. **Urology** 1997 May;49(5):781–5 (27 ref.)

[Synovial chondromatosis and chondrosarcoma. A study of the relationship between these two diseases] Anract P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(3):216–24 (Eng. Abstr.) **(Fre)**

[Treatment of pathological fractures caused by metastatic bone cancer] Tateishi A, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):285–91 (9 ref.) (Eng. Abstr.) **(Jpn)**

[A case of generalized plasmocytoma in a patient with Recklinghausen's neurofibromatosis] Iagoda AV, et al. **Klin Med (Mosk)** 1996;74(9):66–7 **(Rus)**

[Chronic monoarthritis caused by osteoid osteoma] García-Vivar ML, et al. **An Med Interna** 1996 Jul; 13(7):344–6 (Eng. Abstr.) **(Spa)**

[Chronic monoarthritis caused by a juxta-articular osteoid osteoma of the astragalus (letter)] Insúa Vilariño SA, et al. **An Med Interna** 1995 Aug;12(8):411–2 **(Spa)**

[Peripheral mononeuropathy as first manifestation of hepatocellular carcinoma (letter)] Peiro R, et al. **An Med Interna** 1997 Mar;14(3):157–8 **(Spa)**

CONGENITAL

Resolving neonatal osteochondroma: a case report and literature review. Shaw BA. **Am J Orthop** 1996 Mar; 25(3):226–8

DIAGNOSIS

Predictive value of fine needle aspiration cytology of bone lesions. Agarwal PK, et al. **Acta Cytol** 1997 May–Jun; 41(3):659–65

Reverse transcriptase polymerase chain reaction for detecting Ewing's sarcoma in archival fine needle aspiration biopsies. Schlott T, et al. **Acta Cytol** 1997 May–Jun;41(3):795–801

Non-AIDS-related primary intraosseous Kaposi's sarcoma: case report and literature review. Chen HH, et al. **Acta Oncol** 1997;36(2):224–7 (14 ref.)

Periosteal osteosarcoma of the tibia. Chew FS, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1034

Symptomatic osteochondromas: imaging features. Karasick D, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1507–12

Re: Osteoid osteoma after a fracture of the distal radius [letter; comment] Lund PJ. **AJR Am J Roentgenol** 1997 Jun;168(6):1618–9. Comment on: AJR Am J Roentgenol 1996 Jul;167(1):145–6.

Accuracy of MR imaging for estimating intraosseous extent of osteosarcoma. Onikul E, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1211–5

Measurements of cortical thickness in experimentally created endosteal bone lesions: a comparison of radiography, CT, MR imaging, and anatomic sections. Preidler KW, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1501–5

Surface osteomas of the appendicular skeleton. Sundaram M, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1529–33

Metastatic disease of the skeleton. Buckwalter JA, et al. **Am Fam Physician** 1997 Apr;55(5):1761–8 (13 ref.)

Multiple, juxtasutural, cranial hyperostoses and cardiac tumor: a new hamartomatous syndrome? Nishimura G, et al. **Am J Med Genet** 1997 Aug 8;71(2):167–71

An unusual presentation of telangiectatic osteosarcoma. Simon RG, et al. **Am J Orthop** 1996 May;25(5):375–9 (19 ref.)

Traumatic ossifying periostitis of the ulna masquerading as a malignancy in a football player. A case report and literature review. Ward WG Sr, et al. **Am J Sports Med** 1996 Nov–Dec;24(6):852–6

Apparent hip osteoarthritis in a 16 year old girl. Rougerie C, et al. **Ann Rheum Dis** 1997 Jun;56(6):343–5

Multiple imagings to diagnose the chondrosseous metaplasia within a lipoma near the knee. Shih WJ, et al. **Arch Orthop Trauma Surg** 1997;116(3):181–3

Primary bone lymphoma (osteolymphoma). Christie DR, et al. **Australas Radiol** 1996 Aug;40(3):319–23

Multicentric epithelioid angiosarcoma of the bone. Pitfalls in clinical and morphological diagnosis. Balicki D, et al. **Blood Cells Mol Dis** 1996;22(3):205–13

Does magnetic resonance imaging make a difference for patients with musculoskeletal sarcoma? Bloem JL, et al. **Br J Radiol** 1997 Apr;70:327–37 (68 ref.)

The diagnostic value of urinary Crosslaps and serum alkaline phosphatase in patients with prostate cancer. Nguyen-Pamart M, et al. **Br J Urol** 1997 Sep;80(3):452–5

Small cell osteosarcoma of bone. Review of 72 cases. Nakajima H, et al. **Cancer** 1997 Jun 1;79(11):2095–106

Comparison of primary osteosarcoma of flat bones with secondary osteosarcoma of any site. Pratt CB, et al. **Cancer** 1997 Sep 15;80(6):1171–7

Histological and immunohistochemical diversities, and proliferative activity and grading in osteosarcomas. Hasegawa T, et al. **Cancer Detect Prev** 1997;21(3):280–7

Bone infarcts or chondrosarcomas? The usefulness of MRI [letter] Mattei JP, et al. **Clin Exp Rheumatol** 1996 Mar–Apr; 14(2):220–1

MR imaging of dedifferentiated chondrosarcoma. Eustace S, et al. **Clin Imaging** 1997 May–Jun;21(3):170–4

Primary pulmonary chondrosarcoma mimicking bronchogenic cyst on CT and MRI. Parker LA, et al. **Clin Imaging** 1996 Jul–Sep;20(3):181–3

MR imaging of parosteal osteosarcoma in two skeletally immature patients. Yu JS, et al. **Clin Imaging** 1997 Jan–Feb; 21(1):63–8

Idiopathic bone infarction mimicking metatastic disease. Mouratidis B, et al. **Clin Nucl Med** 1996 Oct;21(10):801–2

Painful mass adjacent to the tibial tubercle of a 14-year-old boy. Periosteal osteosarcoma. Johnston JO, et al. **Clin Orthop** 1997 Jun;(339):282–4, 288

Case report: sacral insufficiency fractures masking malignancy. Peh WC, et al. **Clin Radiol** 1997 Jan;52(1):71–2

Imaging characteristics of aggressive fibromatosis in children. Petchprapa CN, et al. **Comput Med Imaging Graph** 1996 May–Jun;20(3):153–8

Synovial metastasis: diagnosis by fine-needle aspiration cytologic investigation. Thompson KS, et al. **Diagn Cytopathol** 1996 Nov;15(4):334–7 (18 ref.)

MR findings of plasmacytoma with calcified amyloid deposition. Soler R, et al. **Eur J Radiol** 1995 Dec 15; 21(2):152–4

Quiz case of the month. Giant cell tumor (GCT) of the third metacarpal. Bianchi S, et al. **Eur Radiol** 1997;7(1):133–4

Imaging findings of sternal abnormalities. Franquet T, et al. **Eur Radiol** 1997;7(4):492–7

Radiological diagnosis of skeletal metastases. Söderlund V. **Eur Radiol** 1996;6(5):587–95 (49 ref.)

Skeletal alkaline phosphatase in the metastatic workup of patients with prostate cancer. Wolff JM, et al. **Eur Urol** 1996;30(3):302–6

Chronic ankle pain caused by osteoid osteoma of the neck of the talus. Snow SW, et al. **Foot Ankle Int** 1997 Feb; 18(2):98–101

Bone tumor location in dogs given skeletal irradiation by 239Pu or 226Ra. Lloyd RD, et al. **Health Phys** 1997 Oct; 73(4):684–9

Diagnostic criteria for pseudomalignant osteoblastoma. Cheung FM, et al. **Histopathology** 1997 Aug;31(2):196–200

Early diagnosis of bone biopsies--the role of sediment cytology. Valiathan M, et al. **Indian J Pathol Microbiol** 1997 Jan;40(1):17–20

Diagnostic strategy for bone and soft-tissue tumors. Simon MA, et al. **Instr Course Lect** 1994;43:527–36 (57 ref.)

Primary skeletal lymphoma imaging and pathologic correlation. Cook MA, et al. **J Am Osteopath Assoc** 1996 Oct;96(10):610–2 (17 ref.)

Solitary IgA myeloma of the foot. A case report and review of the literature. Khoddami M, et al. **J Am Podiatr Med Assoc** 1997 May;87(5):233–7 (24 ref.)

Bursal osteochondromatosis overlying an osteochondroma of a rib. A case report. Wright JM, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1085–8

Osteosarcoma of the scaphoid. A case report and review of the literature. Marcuzzi A, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):699–701 (8 ref.)

Chondroblastoma of the calcaneus: literature review and case presentation. Blitch E, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):250–4

Intraosseous lipoma of the calcaneus: a clinicopathologic study of three cases. Gonzalez JV, et al. **J Foot Ankle Surg** 1997 Jul–Aug;36(4):306–10; discussion 329

Enchondroma of the scaphoid. Redfern DR, et al. **J Hand Surg [Br]** 1997 Apr;22(2):235–6

Evaluation of an ultrasmall superparamagnetic iron oxide in MRI in a bone tumor model in rabbits. Bush CH, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):579–84

Fat-saturated contrast-enhanced T1-weighted MRI in evaluation of osteosarcoma and Ewing sarcoma. Gronemeyer SA, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):585–9

Dynamic contrast-enhanced MR imaging of musculoskeletal tumors: basic principles and clinical applications. Verstraete KL, et al. **J Magn Reson Imaging** 1996 Mar–Apr; 6(2):311–21 (68 ref.)

Validation of family history of cancer in deceased family members. Novakovic B, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1492–3

Pediatric sacrococcygeal chordomas: a rare tumor to be differentiated from sacrococcygeal teratoma. Cable DG, et al. **J Pediatr Surg** 1997 May;32(5):759–61

Granulocytic sarcoma of the scapula: an unusual presentation of acute myeloblastic leukemia. Karnak I, et al. **J Pediatr Surg** 1997 Jan;32(1):121–2

Sternal hemangioma: a rare tumor. Medalion B, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1402–3

Pediatric musculoskeletal neoplasms. Evaluation with MR imaging. Jaramillo D, et al. **Magn Reson Imaging Clin N Am** 1996 Nov;4(4):749–70 (45 ref.)

MR imaging of musculoskeletal tumors in the elbow region. Steinbach LS, et al. **Magn Reson Imaging Clin N Am** 1997 Aug;5(3):619–53 (194 ref.)

Unusual presentation of an osteoid osteoma. Marin R, et al. **Mil Med** 1996 Jul;161(7):438–40

Use of MRI in evaluating postoperative changes in patients with bone and soft tissue tumors. Griffiths HJ, et al. **Orthopedics** 1997 Mar;20(3):215–20

Cystic chondroblastoma. Mermelstein LE, et al. **Orthopedics** 1997 Jan;20(1):69–71 (9 ref.)

Intra-articular osteoid osteoma of the acetabulum in a 6 year old. Miller SJ, et al. **Orthopedics** 1997 Jul;20(7):654–5

Intraosseous epidermoid cyst in a metacarpal mimicking malignancy. Pagnano MW, et al. **Orthopedics** 1997 Aug; 20(8):719–21

Primary bone tumors of the pelvis presenting as spinal disease. Thompson RC Jr, et al. **Orthopedics** 1996 Dec; 19(12):1011–6

Epithelioid hemangioendothelioma of bone. Tillman RM, et al. **Orthopedics** 1997 Feb;20(2):177–80

Recurrence of giant cell tumor of bone: the role of MRI in diagnosis. Waldman BJ, et al. **Orthopedics** 1997 Jan; 20(1):67–9

A small and painful puzzle. Adler RH, et al. **Pain** 1997 Jan; 69(1–2):211–2

Is it cancer or not? Johnson MJ, et al. **Palliat Med** 1997 May; 11(3):245–8

General case of the day. Benign giant cell tumor with extension through the fibular head into the adjacent soft tissue. Denison GL, et al. **Radiographics** 1997 Mar–Apr; 17(2):545–7

Primary tumors of the musculoskeletal system. Vanel D, et al. **Radiol Clin North Am** 1997 Jan;35(1):213–37 (48 ref.)

Benign and malignant musculoskeletal masses: MR imaging differentiation with rim-to-center differential enhancement ratios. Ma LD, et al. **Radiology** 1997 Mar;202(3):739–44

CT and MR imaging in the local staging of primary malignant musculoskeletal neoplasms: Report of the Radiology Diagnostic Oncology Group. Panicek DM, et al. **Radiology** 1997 Jan;202(1):237–46

Heel pain as the inaugural manifestation of metastatic prostate cancer [letter] Gisserot O, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):870–1 (8 ref.)

Small round blue cell tumors in bone: prognostic factors correlated to Ewing's sarcoma and neuroectodermal tumors. Terrier P, et al. **Semin Diagn Pathol** 1996 Aug; 13(3):250–7 (61 ref.)

The use of gadolinium in the MR imaging of bone tumors. Sundaram M. **Semin Ultrasound CT MR** 1997 Aug; 18(4):307–11

Clinics in diagnostic imaging (21). Intraosseous lipoma of the calcaneum. Hodge JC, et al. **Singapore Med J** 1997 Jan;38(1):41–3

A diagnostic dilemma in an elderly patient with bone pains. Wong DH, et al. **Singapore Med J** 1997 Apr;38(4):181–4

Intraosseous neurilemmoma of the fibula. Aoki J, et al. **Skeletal Radiol** 1997 Jan;26(1):60–3

Magnetic resonance imaging features of chloroma of the shoulder. Gómez N, et al. **Skeletal Radiol** 1997 Jan; 26(1):70–2

Synovial chondrosarcoma arising in synovial chondromatosis of the right hip. Hermann G, et al. **Skeletal Radiol** 1997 Jun;26(6):366–9

Intramedullary chondroid tumors of bone: correlation of abnormal peritumoral marrow and soft-tissue MRI signal with tumor type. Janzen L, et al. **Skeletal Radiol** 1997 Feb; 26(2):100–6

Pubic osteolysis mimicking a malignant lesion: report a case with a fracture dislocation of the sacroiliac joint. Matsumoto K, et al. **Skeletal Radiol** 1997 Jul;26(7):438–42

MR imaging of musculoskeletal tumors and tumor mimickers with intravenous gadolinium: experience with 242 patients. May DA, et al. **Skeletal Radiol** 1997 Jan;26(1):2–15

Imaging of primary multifocal osseous lymphoma. Melamed JW, et al. **Skeletal Radiol** 1997 Jan;26(1):35–41

The impact of osteonectin for differential diagnosis of osteogenic bone tumors: an immunohistochemical and in situ hybridization approach. Park YK, et al. **Skeletal Radiol** 1996 Jan;25(1):13–7

Malignant hemangioendothelioma of the left calcaneus associated with fever and hematological abnormalities. Rong Y, et al. **Skeletal Radiol** 1997 Jan;26(1):64–6

A cost minimization approach to the diagnosis of skeletal neoplasms. Ruhs SA, et al. **Skeletal Radiol** 1996 Jul; 25(5):449–54

Discrete synchronous multifocal osteoid osteoma of the humerus. Schai P, et al. **Skeletal Radiol** 1996 Oct; 25(7):667–70

Primary lymphoma of the calcaneus. White LM, et al. **Skeletal Radiol** 1996 Nov;25(8):775–8

Primary angiosarcoma of the rib. Batt H, et al. **South Med J** 1997 Apr;90(4):454–6 (8 ref.)

The use of gadolinium in the MR evaluation of musculoskeletal tumors. Kransdorf MJ. **Top Magn Reson Imaging** 1996 Feb;8(1):15–23 (25 ref.)

Cystic tuberculosis of the bone mimicking osteogenic sarcoma. Yip KM, et al. **Tuber Lung Dis** 1996 Dec; 77(6):566–8

Skeletal alkaline phosphatase: a marker for individual follow-up in patients with advanced prostatic cancer. Wechsel HW, et al. **Urol Int** 1997;58(2):80–3

Prostate-specific antigen as a marker of bone metastasis in patients with prostate cancer. Wolff JM, et al. **Urol Int** 1996;56(3):169–73

[Imaging and functional diagnosis of malignant skeletal disorders] Kristensen B, et al. **Ugeskr Laeger** 1997 Jul 7; 159(28):4366–9 **(Dan)**

[Low grade intramedullary osteosarcoma. Apropos of 8 cases] Katabi M, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(3):208–15 (Eng. Abstr.) **(Fre)**

[Rare differential diagnosis of breast tumor. Giant cell tumor of the ribs] Brenner P, et al. **Langenbecks Arch Chir** 1997; 382(2):64–8 (Eng. Abstr.) **(Ger)**

[High dosage Gd-DPTA-BMA (Gadodiamid) administration in diagnosis and therapeutic monitoring of malignant bone tumors] Häussler MD, et al. **Radiologe** 1996 Feb; 36(2):148–52 (Eng. Abstr.) **(Ger)**

[Rare intracranial plasmacytoma manifestations. Case reports and review of the literature in diffuse plasmocytoma, in primary solitary extramedullary plasmacytoma in in primary solitary osseous plasmacytoma] Kujat C, et al. **Radiologe** 1996 Nov;36(11):914–20 (42 ref.) (Eng. Abstr.) **(Ger)**

[A comparison between GE and SE sequences in MRT after the i.v. application of superparamagnetic iron particles in the assessment of experimentally induced soft-tissue osteosarcomas] Axmann C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Feb;166(2):146–52 (Eng. Abstr.) **(Ger)**

[Malignant transformation in multiple cartilaginous exostoses] Diagnostic value of magnetic resonance tomography] Bair HJ, et al. **Rontgenpraxis** 1997 Jul;50(7):207–11 **(Ger)**

[Hip pain] Lehmann S, et al. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):261–3 **(Ger)**

[Primary leiomyosarcoma of the bone] Delsmann BM, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep–Oct;134(5):435–40 (Eng. Abstr.) **(Ger)**

[Epiphyseal tumors] Hovy L. **Z Orthop Ihre Grenzgeb** 1996 Sep–Oct;134(5):413–7 (36 ref.) (Eng. Abstr.) **(Ger)**

[Diagnostic imaging of osteoid osteoma] Orzincolo C, et al. **Radiol Med (Torino)** 1996 Oct;92(4):351–7 (Eng. Abstr.) **(Ita)**

[Diagnosis and treatment of metastatic bone cancer] Tateishi A. **Gan To Kagaku Ryoho** 1996 Sep;23(10):1262–8 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Serum concentration of pyridinoline cross-linked carboxy-terminal telopeptide of type-I collagen (ICTP) and carboxyterminal propeptide of human type I procollagen (PICP) in the diagnosis of bone metastases] Koizumi M, et al. **Kaku Igaku** 1996 Jan;33(1):77–84 (Eng. Abstr.) **(Jpn)**

[A case of intrathoracic chondrosarcoma of the rib head—comparison between MRI shadow and histopathological specimen] Kita Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1011–4 (Eng. Abstr.) **(Jpn)**

[Diagnostic imaging of bone and soft tissue tumors] Saotome K. **Nippon Seikeigeka Gakkai Zasshi** 1996 Sep;70(9):559–72 (26 ref.) **(Jpn)**

[Errors is primary diagnosis of osteogenic sarcoma] Semiglazov VV, et al. **Vopr Onkol** 1996;42(5):103–5 **(Rus)**

[A giant-cell tumor with rib location (letter)] Vázquez-Pelillo JC, et al. **Arch Bronconeumol** 1997 May; 33(5):257 **(Spa)**

DRUG THERAPY

The future of bisphosphonates in cancer. Coleman RE, et al. **Acta Oncol** 1996;35 Suppl 5:23–9 (51 ref.)

Efficacy of pamidronate in breast cancer with bone metastases: a randomized double-blind placebo controlled multicenter study. Hultborn R, et al. **Acta Oncol** 1996;35 Suppl 5:73–4

Rationale for the use of bisphosphonates in breast cancer. Kanis JA. **Acta Oncol** 1996;35 Suppl 5:61–7 (32 ref.)

Chemotherapy for osteosarcoma and Ewing's sarcoma. Saeter G, et al. **Acta Orthop Scand Suppl** 1997 Feb; 273:120–5 (51 ref.)

Treatment of radioiodine-negative bone metastasis from papillary thyroid carcinoma with percutaneous ethanol injection therapy. Nakada K, et al. **Ann Nucl Med** 1996 Nov;10(4):441–4

Synchronous multifocal osteosarcoma: results in twelve patients treated with neoadjuvant chemotherapy and simultaneous resection of all involved bones. Bacci G, et al. **Ann Oncol** 1996 Oct;7(8):864–6

Antagonistic effect of amphotericin B on carboplatin antitumor activity in human osteosarcoma xenografts. Crnalic S, et al. **Anticancer Drugs** 1996 Jun;7(4):489–92

Release of daunorubicin from polymethylmethacrylate for the improvement of the local growth control of bone metastasis animal experiments. Fröschle GW, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):995–1002

A case of malignant schwannoma with overexpression of multidrug resistance gene (MDR1) after chemotherapy. Suto R, et al. **Anticancer Res** 1997 May–Jun;17(3C):2273–7

The importance of doxorubicin and methotrexate dose intensity in the chemotherapy of osteosarcoma. Kawai A, et al. **Arch Orthop Trauma Surg** 1996;115(2):68–70

Pamidronate in the treatment of bone metastases—the European experience. Ford JF. **Br J Clin Pract Symp Suppl** 1996 Sep;87:3–4; discussion 13–4

Zoledronate in the treatment of osteolytic bone metastases. Lipton A. **Br J Clin Pract Symp Suppl** 1996 Sep;87:21; discussion 22

Pamidronate in the treatment of osteolytic bone metastases in breast cancer patients. Theriault R. **Br J Clin Pract Symp Suppl** 1996 Sep;87:8–12; discussion 13–4

Metastatic bone disease and the role of bisphosphonates. Ellis MJ. **Br J Hosp Med** 1996 Oct 2–15;56(7):339–45 (47 ref.)

Effect of methotrexate and sulphasalazine on UMR 106 rat osteosarcoma cells. Preston SJ, et al. **Br J Rheumatol** 1997 Feb;36(2):178–84

Influence of methotrexate dose intensity on outcome of patients with high grade osteogenic osteosarcoma: analysis of the literature [letter; comment] Bielack SS, et al. **Cancer** 1997 Aug 1;80(3):516–8. Comment on: Cancer 1996 Nov 15;78(10):2127–35.

Influence of methotrexate dose intensity on outcome of patients with high grade osteogenic osteosarcoma. Analysis of the literature [see comments] Delepine N, et al. **Cancer** 1996 Nov 15;78(10):2127–35. Comment in: Cancer 1997 Aug 1;80(3):516–8.

Second malignant neoplasms occuring in survivors of osteosarcoma. Pratt CB, et al. **Cancer** 1997 Sep 1; 80(5):960–5

Neoadjuvant chemotherapy for pediatric osteosarcoma patients. Uchida A, et al. **Cancer** 1997 Jan 15;79(2):411–5

Sustained release of adriamycin from implanted hydroxyapatite blocks for the treatment of experimental osteogenic sarcoma in mice. Itokazu M, et al. **Cancer Lett** 1996 Oct 1;107(1):11–8

Neoadjuvant chemotherapy for malignant fibrous histiocytoma of bone and for osteosarcoma of the limbs: a comparison between the results obtained for 21 and 144 patients, respectively, treated during the same period with the same chemotherapy protocol. Bacci G, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):139–53 **(Eng, Ita)**

The effect of intra-arterial versus intravenous cisplatinum in the neoadjuvant treatment of osteosarcoma of the limbs: the experience at the Rizzoli Institute. Bacci G, et al. **Chir Organi Mov** 1996 Sep–Dec;81(4):369–82 **(Eng, Ita)**

Imaging assessment of the response of bone tumors to preoperative chemotherapy. Kawai A, et al. **Clin Orthop** 1997 Apr;(337):216–25

Ifosfamide and etoposide in childhood osteosarcoma. A phase II study of the French Society of Paediatric Oncology. Gentet JC, et al. **Eur J Cancer** 1997 Feb;33(2):232–7

Reversal of clinical resistance to LHRH analogue in metastatic prostate cancer by the pineal hormone melatonin: efficacy of LHRH analogue plus melatonin in patients progressing on LHRH analogue alone. Lissoni P, et al. **Eur Urol** 1997;31(2):178–81

Adjuvant chemotherapy using cisplatin by subcutaneous administration. Dernell WS, et al. **In Vivo** 1997 Jul–Aug; 11(4):345–50

Effects of alendronate and taxol on PC-3 ML cell bone metastases in SCID mice. Stearns ME, et al. **Invasion Metastasis** 1996;16(3):116–31

Cytotoxicity of phenol to musculoskeletal tumours. Quint U, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):984–5

Administration of the bisphosphonate ibandronate (BM 21.0955) by intravenous bolus injection. Pecherstorfer M, et al. **J Bone Miner Res** 1996 May;11(5):587–93

Neoadjuvant chemotherapy for osseous malignant fibrous histiocytoma of the extremity: results in 18 cases and comparison with 112 contemporary osteosarcoma patients treated with the same chemotherapy regimen. Bacci G, et al. **J Chemother** 1997 Aug;9(4):293–9

The role of corrected QT interval in the cardiologic follow-up of young patients treated with Adriamycin. Ferrari S, et al. **J Chemother** 1996 Jun;8(3):232–6 (8 ref.)

Delay in progression of bone metastases in breast cancer patients treated with intravenous pamidronate: results from a multinational randomized controlled trial. The Aredia Multinational Cooperative Group. Conte PF, et al. **J Clin Oncol** 1996 Sep;14(9):2552–9

High-dose ifosfamide in bone and soft tissue sarcomas: results of phase II and pilot studies—dose-response and schedule dependence. Patel SR, et al. **J Clin Oncol** 1997 Jun; 15(6):2378–84

Treatment of nonmetastatic osteosarcoma of the extremity with preoperative and postoperative chemotherapy: a report from the Children's Cancer Group. Provisor AJ, et al. **J Clin Oncol** 1997 Jan;15(1):76–84

Bisphosphonates spearhead new approach to treating bone metastases [news] Bankhead C. **J Natl Cancer Inst** 1997 Jan 15;89(2):115–6

Tin-117m(4+)DTPA: pharmacokinetics and imaging characteristics in patients with metastatic bone pain. Krishnamurthy GT, et al. **J Nucl Med** 1997 Feb;38(2):230–7

Study of bisphosphonates leads to new views of bone remodeling, therapy for skeletal malignancy [news] Marwick C. **JAMA** 1997 Sep 10;278(10):803–4

Development of a canine chemotherapeutic model with ifosfamide. Ikeda K, et al. **Lab Anim Sci** 1996 Oct; 46(5):503–6

Randomised trial of two regimens of chemotherapy in operable osteosarcoma: a study of the European Osteosarcoma Intergroup [see comments] Souhami RL, et al. **Lancet** 1997 Sep 27;350(9082):911–7. Comment in: Lancet 1997 Sep 27;350(9082):900–1.

Melatonin in osteosarcoma: an effective drug? Panzer A. **Med Hypotheses** 1997 Jun;48(6):523–5 (36 ref.)

Utility of bisphosphonates in treating bone metastases. Merlini G, et al. **Med Oncol** 1996 Dec;13(4):215–21 (40 ref.)

Treatment of childhood post-irradiation sarcoma of bone in cancer survivors. Cefalo G, et al. **Med Pediatr Oncol** 1997 Dec;29(6):568–72

Prognostic significance of chemotherapy dosage characteristics in children with osteogenic sarcoma. Leung S, et al. **Med Pediatr Oncol** 1997 Mar;28(3):179–82

Bisphosphonates in the treatment of bone diseases [editorial; comment] Delmas PD. **N Engl J Med** 1996 Dec 12; 335(24):1836–7. Comment on: N Engl J Med 1996 Dec 12;335(24):1785–91.

Efficacy of pamidronate in reducing skeletal complications in patients with breast cancer and lytic bone metastases. Protocol 19 Aredia Breast Cancer Study Group [see comments] Hortobagyi GN, et al. **N Engl J Med** 1996 Dec 12;335(24):1785–91. Comment in: N Engl J Med 1996 Dec 12;335(24):1836–7. Comment in: N Engl J Med 1997 May 29;336(22):1609; discussion 1610. Comment in: N Engl J Med 1997 May 29;336(22):1609–10; discussion 1610.

Pamidronate and metastatic breast cancer [letter; comment] Rubiales AS, et al. **N Engl J Med** 1997 May 29; 336(22):1609–10; discussion 1610. Comment on: N Engl J Med 1996 Dec 12;335(24):1785–91.

In vivo 31P NMR spectroscopy of human musculoskeletal tumors as a measure of response to chemotherapy. Möller HE, et al. **NMR Biomed** 1996 Dec;9(8):347–58

Metabolic and transcriptional changes in osteosarcoma cells treated with chemotherapeutic drugs. Haberkorn U, et al. **Nucl Med Biol** 1994 Aug;21(6):835–45

Radiosensitization with low-dose carboplatin enhances pain palliation in radioisotope therapy with strontium-89. Sciuto R, et al. **Nucl Med Commun** 1996 Sep;17(9):799–804

Bleomycin and cyclophosphamide toxicity simulating metastatic nodules to the lungs in childhood cancer. Ben Arush MW, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug; 14(4):381–6

Symptomatic relief for patients with osseous metastasis treated with radiation and methylprednisolone: a prospective randomized study. Teshima T, et al. **Radiat Med** 1996 Jul–Aug;14(4):185–8

Methotrexate osteopathy in patients with osteosarcoma. Ecklund K, et al. **Radiology** 1997 Feb;202(2):543–7

Can conventional radiographs be used to monitor the effect of neoadjuvant chemotherapy in patients with osteogenic sarcoma? Holscher HC, et al. **Skeletal Radiol** 1996 Jan; 25(1):19–24

Therapeutic efficacy of pamidronate in combination with chemotherapy to bone metastasis of breast cancer in a rat model. Tamura H, et al. **Surg Oncol** 1996 Jun;5(3):141–7

[Medical treatment of bone metastases] Tubiana-Hulin M. **Bull Cancer Radiother** 1996;83(4):299–304 **(Fre)**

[Bisphosphonate in radiotherapy] **J Cancer Res Clin Oncol** 1997;123(3 Suppl):1–4 (7 ref.) **(Ger)**

[The type of local treatment conditions the prognosis in patients with nonmetastatic Ewing's sarcoma of the extremities treated with adjuvant chemotherapy] Bacci G, et al. **Minerva Chir** 1997 Apr;52(4):415–26 (Eng. Abstr.) **(Ita)**

[Toxicity of high dose methotrexate repeated infusions in children treated for acute lymphoblastic leukemia and osteosarcoma] Ridolfi L, et al. **Minerva Pediatr** 1996 May; 48(5):193–200 (Eng. Abstr.) **(Ita)**

[Bone metastases responsive to pamidronate therapy in breast cancer] Oura S, et al. **Gan To Kagaku Ryoho** 1997 May; 24(7):865–8 (Eng. Abstr.) **(Jpn)**

[Effect of pamidronate and interferon-alpha on bone and lung metastases and hypercalcemia in a patient with renal cell carcinoma] Kise H, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):879–81 (Eng. Abstr.) **(Jpn)**

[Case of malignant pheochromocytoma with successful control of systemic metastasis with CVD chemotherapy] Minami T, et al. **Nippon Naika Gakkai Zasshi** 1996 Dec 10;85(12):2078–80 (10 ref.) **(Jpn)**

[L-MTP-PE—a potential antineoplastic agent] Dzierzbicka K, et al. **Postepy Hig Med Dosw** 1997;51(2):227–36 (37 ref.)

(Eng. Abstr.) **(Pol)**

[Neoadjuvant chemotherapy and cyclo-oxygenase pathway of arachidonic acid metabolism in osteogenic sarcoma] Kushlinskii, et al. **Biull Eksp Biol Med** 1996 Nov; 122(11):551-6 **(Rus)**

[Experience in treating osseous sarcomas at the Research Institute of Pediatric Oncology, Cancer Research Center] Pashkov IV, et al. **Vestn Ross Akad Med Nauk** 1996; (10):10-3 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Regulation of MMP-9 (92 kDa type IV collagenase/gelatinase B) expression in stromal cells of human giant cell tumor of bone. Rao VH, et al. **Clin Exp Metastasis** 1997 Jul;15(4):400-9

Serum neuron-specific enolase (NSE) as a tumour marker for the Ewing's sarcoma family of tumours [letter] Fizazi K, et al. **Eur J Cancer** 1996 Sep;32A(10):1823-4

Cytoplasmic and nuclear localization sites of phosphatidylinositol 3-kinase in human osteosarcoma sensitive and multidrug-resistant Saos-2 cells. Zini N, et al. **Histochem Cell Biol** 1996 Nov;106(5):457-64

Constitutive expression of non-bone/liver/kidney alkaline phosphatase in human osteosarcoma cell lines. Ali NN, et al. **J Bone Miner Res** 1996 Apr;11(4):512-20

Role of protein phosphatase in malignant osteogenic and soft tissue tumors. Sogawa K, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):33-42

EPIDEMIOLOGY

Growth and development and other risk factors for osteosarcoma in children and young adults. Gelberg KH, et al. **Int J Epidemiol** 1997 Apr;26(2):272-8

Incidence of primary bone tumours and tumour like lesions in and around Dakshina Kannada district of Karnataka. Rao VS, et al. **J Indian Med Assoc** 1996 Mar;94(3):103-4, 121

ETIOLOGY

Osteosarcoma of the meninges in association with glioblastoma. Couldwell WT, et al. **Acta Neurochir (Wien)** 1997;139(7):684-9

Intramedullary plasmacytoma in an unusual location in a renal transplant patient. Po C, et al. **Am J Kidney Dis** 1996 Dec;28(6):904-6

Radiation-induced tumors of the temporal bone. Lustig LR, et al. **Am J Otol** 1997 Mar;18(2):230-5

Radiation-associated malignant tumors of the chest wall. Schwarz RE, et al. **Ann Surg Oncol** 1996 Jul;3(4):387-92

Chondrosarcoma secondary to synovial chondromatosis. Report of two cases and a review of the literature. Wuisman PI, et al. **Arch Orthop Trauma Surg** 1997;116(5):307-11 (20 ref.)

Angiosarcoma occurring with chronic osteomyelitis and residual foreign material: case report of a late World War II wound complication. Schneider T, et al. **Aust N Z J Surg** 1997 Aug;67(8):576-8

Malignancy in chronic osteomyelitis sinus. Report of three cases. Sadat-Ali M, et al. **Indian J Cancer** 1996 Sep; 33(3):139-44

High frequency of leukemic lymphomas with osteosarcomas but no myeloid leukemias in C3H mice after 239Pu citrate injection. Oghiso Y, et al. **J Radiat Res (Tokyo)** 1997 Jun; 38(2):77-86

Skin and bone tumors induced by repeated beta-irradiation of mice: threshold effect and p53 mutations. Ootsuyama A. **J Radiat Res (Tokyo)** 1996 Sep;37(3):151-9

Osteochondroma after total body irradiation in bone marrow transplant recipients: report of two cases. Maeda G, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):480-3 (14 ref.)

Brown tumours and secondary hyperparathyroidism--a continuing saga [letter; comment] Korzets A, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1669. Comment on: Nephrol Dial Transplant 1995;10(4):552-4. Comment on: Nephrol Dial Transplant 1996 Jan;11(1):221-3.

Osteochondroma post osteomyelitis. Vallcanera A, et al. **Pediatr Radiol** 1996 Sep;26(9):680-1

Malignant degeneration of radiation-induced osteochondroma. Mahboubi S, et al. **Skeletal Radiol** 1997 Mar;26(3):195-8

[Malignant synovial "chondromatosis" or chondrosarcomatous transformation of synovial chondromatosis of the knee?] Bascoulergue G, et al. **Bull Cancer** 1996 Nov;83(11):951-6 (11 ref.) (Eng. Abstr.) **(Fre)**

[A large fronto-temporal tumor as the first manifestation of a multiple myeloma (letter)] Marcos Sánchez F, et al. **An Med Interna** 1995 Nov;12(11):570 **(Spa)**

GENETICS

Musculoskeletal oncology--advances in cytogenetics and molecular genetics and their clinical implications. Choong PF, et al. **Acta Oncol** 1997;36(3):245-54 (120 ref.)

Techniques in molecular biology. Grubb G. **Acta Orthop Scand Suppl** 1997 Feb;273:74-80 (50 ref.)

Hereditary multiple exostoses (EXT): mutational studies of familial EXT1 cases and EXT-associated malignancies. Hecht JT, et al. **Am J Hum Genet** 1997 Jan;60(1):80-6

Gains, losses, and amplifications of DNA sequences evaluated by comparative genomic hybridization in chondrosarcomas. Larramendy ML, et al. **Am J Pathol** 1997 Feb;150(2):685-91

Li-Fraumeni syndrome in pediatric patients with soft tissue sarcoma or osteosarcoma. Carnevale A, et al. **Arch Med Res** 1997 Autumn;28(3):383-6

Cell-type-specific modulation of Hox gene expression by members of the TGF-beta superfamily: a comparison between human osteosarcoma and neuroblastoma cell lines. Kloen P, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):365-9

Myeloablative therapy, stem cell rescue and gene transfer in advanced Ewing tumors. Burdach S, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S67-8

Frequent reduction or loss of DCC gene expression in human osteosarcoma. Horstmann MA, et al. **Br J Cancer** 1997; 75(9):1309-17

Quantitative analysis of multidrug resistance gene expression in human osteosarcomas. Lee PD, et al. **Br J Cancer** 1996 Oct;74(7):1046-50

Parathyroid hormone versus phorbol ester stimulation of activator protein-1 gene family members in rat osteosarcoma cells. Koe RC, et al. **Calcif Tissue Int** 1997 Jul;61(1):52-8

p53 and MDM2 alterations in osteosarcomas: correlation with clinicopathologic features and proliferative rate. Lonardo F, et al. **Cancer** 1997 Apr 15;79(8):1541-7

Cytogenetic analysis of adamantinoma of long bones: further indications for a common histogenesis with osteofibrous dysplasia. Hazelbag HM, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):5-11

Amplification of a rearranged form of the high-mobility group protein gene HMGIC in OsA-CI osteosarcoma cells. Kools PF, et al. **Cancer Genet Cytogenet** 1996 Oct 1; 91(1):1-7

No DNA copy number changes in osteochondromas: a comparative genomic hybridization study. Larramendy ML, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):76-8

Analysis of the p16INK4 and TP53 tumor suppressor genes in bone sarcoma pediatric patients. Patiño-García A, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):50-5

p53 mutation and absence of mdm2 amplification and Ki-ras mutation in 4-hydroxyamino quinoline 1-oxide induced transplantable osteosarcomas in rats. Kido A, et al. **Cancer Lett** 1997 Jan 15;112(1):5-10

Localization of a novel tumor suppressor locus on human chromosome 3q important in osteosarcoma tumorigenesis. Kruzelock RP, et al. **Cancer Res** 1997 Jan 1;57(1):106-9

P53 gene abnormalities in osteosarcoma. Guo W, et al. **Chin Med J (Engl)** 1996 Oct;109(10):752-5

Biology of EWS/FLI and related fusion genes in Ewing's sarcoma and primitive neuroectodermal tumor. May WA, et al. **Curr Top Microbiol Immunol** 1997;220:143-50 (35 ref.)

Comparison of cytogenetics, interphase cytogenetics, and DNA flow cytometry in bone tumors. Tarkkanen M, et al. **Cytometry** 1996 Sep 15;26(3):185-91

Loss of heterozygosity and microsatellite instability at the retinoblastoma locus in osteosarcomas. Belchis DA, et al. **Diagn Mol Pathol** 1996 Sep;5(3):214-9

Mutation spectrum of p53 gene in highly malignant human osteosarcomas. Radig K, et al. **Gen Diagn Pathol** 1996 Jun; 142(1):25-32

Alterations of p53 gene in soft tissue and bone tumors. Roessner A, et al. **Gen Diagn Pathol** 1997 Jul;143(1):1-13 (61 ref.)

Different cytogenetic patterns in skeletal breast cancer metastases. Adeyinka A, et al. **Genes Chromosomes Cancer** 1996 May;16(1):72-4

Demonstration of the translocation der(16)t(1;16)(q12;q11.2) in interphase nuclei of Ewing tumors. Hattinger CM, et al. **Genes Chromosomes Cancer** 1996 Nov;17(3):141-50

EWS-ERG fusion transcript produced by chromosomal insertion in a Ewing sarcoma. Kaneko Y, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):228-31

Frequent loss of heterozygosity for markers on chromosome arm 10q in chondrosarcomas. Raskind WH, et al. **Genes Chromosomes Cancer** 1996 Jun;16(2):138-43

Ring chromosomes in parosteal osteosarcoma contain sequences from 12q13-15: a combined cytogenetic and comparative genomic hybridization study. Szymanska J, et al. **Genes Chromosomes Cancer** 1996 May;16(1):31-4

New advances in the molecular biology of musculoskeletal neoplasms. Morcuende JA, et al. **Iowa Orthop J** 1997; 17:115-20 (58 ref.)

Oncogene alterations in primary, recurrent, and metastatic human bone tumors. Pompetti F, et al. **J Cell Biochem** 1996 Oct;63(1):37-50 (37 ref.)

Enhanced expression of cathepsin L in metastatic bone tumors. Park IC, et al. **J Korean Med Sci** 1996 Apr; 11(2):144-8

Validation of family history of cancer in deceased family members. Novakovic B, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1492-3

Additional chromosome 1q aberrations and der(16)t(1;16), correlation to the phenotypic expression and clinical behavior of the Ewing family of tumors. Stark B, et al. **J Neurooncol** 1997 Jan;31(1-2):3-8

Inhibition of EWS-FLI-1 fusion protein with antisense oligodeoxynucleotides. Toretsky JA, et al. **J Neurooncol** 1997 Jan;31(1-2):9-16

SAS is amplified predominantly in surface osteosarcoma. Noble-Topham SE, et al. **J Orthop Res** 1996 Sep; 14(5):700-5

Molecular and immunohistochemical identification of p53 alterations in bone and soft tissue sarcomas. Mousses S, et al. **Mod Pathol** 1996 Jan;9(1):1-6

Cytophotometric DNA-analysis of bone-tumors. A new method for preparing formalin-fixed tissue and the regarding of DNA-malignancy grade and its prognostic value. Adler CP, et al. **Pathol Res Pract** 1996 May; 192(5):437-45

Chondrocytes as a specific target of ectopic Fos expression in early development. Watanabe H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3994-9

DNA flow cytometric analysis of chest-wall chondroma and chondrosarcoma. Shih CS, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3-4):157-61

Cytogenetics and tissue culture of small round cell tumors of bone and soft tissue. Noguera R. **Semin Diagn Pathol** 1996 Aug;13(3):171-83 (134 ref.)

[Comparative DNA cytometric and cytogenetic ploidy determination of chondrosarcoma and osteosarcoma] Werner M, et al. **Pathologe** 1996 Sep;17(5):374-9 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

CD99 reactivity in mesenchymal chondrosarcoma. Granter SR, et al. **Hum Pathol** 1996 Dec;27(12):1273-6

Small round cell tumors of bone and soft tissue. Introduction. Llombart-Bosch A. **Semin Diagn Pathol** 1996 Aug; 13(3):149-52 (47 ref.)

[Molecular weight determination and protein analysis of GCF-5 antigens of giant cell tumor of bone] Ren X, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):57-60 (Eng. Abstr.) **(Chi)**

METABOLISM

Expression of Met/hepatocyte growth factor receptor gene and malignant behavior of musculoskeletal tumors. Scotlandi K, et al. **Am J Pathol** 1996 Oct;149(4):1209-19

PCR phenotyping of cytokines, growth factors and their receptors and bone matrix proteins in human osteoblast-like cell lines. Bilbe G, et al. **Bone** 1996 Nov;19(5):437-45

Cytokines expressed in multinucleated cells: Paget's disease and giant cell tumors versus normal bone. Mills BG, et al. **Calcif Tissue Int** 1997 Jul;61(1):16-21

Bone markers in osteoporosis and malignancy. Lipton A, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:11-5

Expression of plasminogen activators and plasminogen activator inhibitor 1 in dedifferentiated chondrosarcoma. Häckel C, et al. **Cancer** 1997 Jan 1;79(1):53-8

Overexpression of resistance-related proteins (metallothioneins, glutathione-S-transferase pi, heat shock protein 27, and lung resistance-related protein) in osteosarcoma. Relationship with poor prognosis. Uozaki H, et al. **Cancer** 1997 Jun 15;79(12):2336-44

Insulin-like growth factor I receptor-mediated circuit in Ewing's sarcoma/peripheral neuroectodermal tumor: a possible therapeutic target. Scotlandi K, et al. **Cancer Res** 1996 Oct 15;56(20):4570-4

Effects of bone metastases on bone metabolism: implications for diagnosis, imaging and assessment of response to cancer treatment. Vinholes J, et al. **Cancer Treat Rev** 1996 Jul; 22(4):289-331 (248 ref.)

N-myc over-expression downregulates alpha3beta1 integrin expression in human Saos-2 osteosarcoma cells. Judware R, et al. **Clin Exp Metastasis** 1997 May;15(3):228-38

Insulin-like growth factors I and II are autocrine factors in stimulating proteoglycan synthesis, a marker of differentiated chondrocytes, acting through their respective receptors on a clonal human chondrosarcoma-derived chondrocyte cell line, HCS-2/8. Takigawa M, et al. **Endocrinology** 1997 Oct;138(10):4390-400

Assessment of proliferative activity, DNA values and some clinicopathologic parameters in mesenchymal tumors. Immunohistochemical and flow cytometric study. Niezabitowski A, et al. **Gen Diagn Pathol** 1997 Jun; 142(5-6):327-33

Expression of P-glycoprotein in high grade osteosarcomas with special emphasis on chondroblastic subtype. Radig K, et al. **Gen Diagn Pathol** 1997 Feb;142(3-4):139-45

Growth hormone receptor activity is stimulated by insulin-like growth factor binding protein 5 in rat osteosarcoma cells. Slootweg MC, et al. **Growth Regul** 1996 Dec;6(4):238-46

Interleukin-1 alpha induces variations of the intranuclear amount of phosphatidylinositol 4,5-bisphosphate and phospholipase C beta 1 in human osteosarcoma Saos-2 cells. Zini N, et al. **Histochem J** 1996 Jul;28(7):495-504

The prognostic significance of histomorphometry and immunohistochemistry in giant cell tumors of bone. Fornasier VL, et al. **Hum Pathol** 1996 Aug;27(8):754-60

Measurement of total and local bone morphogenetic protein concentration in bone tumours. Laitinen M, et al. **Int Orthop** 1997;21(3):188-93

Ectopic secretion of osteocalcin, the major non-collagenous bone protein, by the myeloma cell line NCI-H929. Barille S, et al. **J Bone Miner Res** 1996 Apr;11(4):466-71

Regulation of the release of tumour necrosis factor (TNF)alpha and soluble TNF receptor by gamma irradiation and interferon gamma in Ewing's sarcoma/peripheral primitive neuroectodermal tumour cells. van Valen F, et al. **J Cancer Res Clin Oncol** 1997; 123(5):245-52

Diverse expression of G-proteins in human sarcoma cell lines with different osteogenic potential: evidence for the involvement of Gi2 in cell proliferation. Gordeladze JO, et al. **J Cell Biochem** 1996 Jan;60(1):95–106

Opposing effects of tyrosine kinase inhibitors on mineralization of normal and tumor bone cells. Klein BY, et al. **J Cell Biochem** 1997 Jun 1;65(3):420–9

Expression of bone morphogenetic proteins by osteoinductive and non-osteoinductive human osteosarcoma cells. Raval P, et al. **J Dent Res** 1996 Jul;75(7):1518–23

P-glycoprotein expression in cartilaginous tumors. Rosier RN, et al. **J Surg Oncol** 1997 Jun;65(2):95–105

Differential expression of transthyretin in papillary tumors of the endolymphatic sac and choroid plexus. Megerian CA, et al. **Laryngoscope** 1997 Feb;107(2):216–21

Expression of c-met proto-oncogene product (c-MET) in benign and malignant bone tumors. Naka T, et al. **Mod Pathol** 1997 Aug;10(8):832–8

Hyaluronic acid synthesis by the malignant fibrous histiocytoma cell line NMSG 10 in vitro and its localization. Yokota T, et al. **Pathobiology** 1996;64(2):67–72

The effect of cadmium on cytosolic free calcium, protein kinase C, and collagen synthesis in rat osteosarcoma (ROS 17/2.8) cells. Long GJ. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):189–95

Characteristics of high and low laminin-adherent Dunn osteosarcoma cells selected by adhesiveness to laminin. Correlation between invasiveness through the extracellular matrix and pulmonary metastatic potential. Yudoh K, et al. **Tumour Biol** 1996;17(6):332–40

Drug disposition of incadronate, a new bisphosphonate, in rats with bone metastases. Usui T, et al. **Xenobiotica** 1997 May;27(5):479–87

[Epidermal growth factor and estrogen receptors in the primary bone neoplasms] Kushlinskiĭ NE, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):78–82 **(Rus)**

[Calmodulin in osteogenic sarcoma] Kushlinskiĭ NE, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):690–2 **(Rus)**

PATHOLOGY

Antimacrophage monoclonal antibody D11 in the diagnosis of tumors of histiocytic origin. Petrovichev NN, et al. **Acta Cytol** 1997 Mar-Apr;41(2):357–63

Fine needle aspiration of primary angiosarcoma of bone [letter] Schindler S, et al. **Acta Cytol** 1997 Jul-Aug; 41(4):1225–8

Life threatening intracranial complications of frontal sinus osteomas: report of two cases. Brunori A, et al. **Acta Neurochir (Wien)** 1996;138(12):1426–30

Secondary chondrosarcoma in osteochondromas. Medullary extension in 15 of 45 cases. Wuisman PI, et al. **Acta Orthop Scand** 1997 Aug;68(4):396–400

Tumour necrosis and prognosis in Ewing's sarcoma. Akerman M. **Acta Orthop Scand Suppl** 1997 Feb;273:130–2

The role of magnetic resonance imaging. When to use it and what to look for. McKenzie AF. **Acta Orthop Scand Suppl** 1997 Feb;273:21–4

Prognostic factors in bone sarcomas. Saeter G, et al. **Acta Orthop Scand Suppl** 1997 Feb;273:156–60 (36 ref.)

Tumor necrosis and prognosis in osteosarcoma. Willén H. **Acta Orthop Scand Suppl** 1997 Feb;273:126–9

Fine needle aspiration in the diagnosis of bone tumors. Willén H. **Acta Orthop Scand Suppl** 1997 Feb;273:47–53

Cytology of typical and atypical Ewing's sarcoma/PNET [see comments] Renshaw AA, et al. **Am J Clin Pathol** 1996 Nov;106(5):620–4. Comment in: Am J Clin Pathol 1996 Nov;106(5):561–4.

CD56/neural cell adhesion molecule expression in primary extranodal Ki-1/CD30+ lymphoma. Report of a pediatric case with simultaneous cutaneous and bone localizations. Paulli M, et al. **Am J Dermatopathol** 1997 Aug;19(4):384–90

Cutaneous metastasis of an osteosarcoma. A case report. Setoyama M, et al. **Am J Dermatopathol** 1996 Dec; 18(6):629–32

Metastatic Ewing cell sarcoma of the sinus and osteoid osteoma of the orbit. Chynn EW, et al. **Am J Ophthalmol** 1997 Apr;123(4):565–7

Choroidal osteoma in an infant. Kida Y, et al. **Am J Ophthalmol** 1997 Jul;124(1):119–20

Metastatic malignant chondroblastoma. Rodgers WB, et al. **Am J Orthop** 1996 Dec;25(12):846–9

Radiation-induced tumors of the temporal bone. Lustig LR, et al. **Am J Otol** 1997 Mar;18(2):230–5

Epithelioid hemangioendothelioma of bone. Kleer CG, et al. **Am J Surg Pathol** 1996 Nov;20(11):1301–11

Lesions of the bones of the hands and feet. Ostrowski ML, et al. **Am J Surg Pathol** 1997 Jun;21(6):676–90

Amyloidoma of bone, a plasma cell/plasmacytoid neoplasm. Report of three cases and review of the literature. Pambuccian SE, et al. **Am J Surg Pathol** 1997 Feb; 21(2):179–86 (55 ref.)

Dedifferentiated chondrosarcoma with rhabdomyosarcomatous differentiation. Reith JD, et al. **Am J Surg Pathol** 1996 Mar;20(3):293–8 (18 ref.)

Small round cell tumors of bone and soft tissue. A morphometric and stereometric comparative analysis of 119 cases. Callaghan RC, et al. **Anal Quant Cytol Histol** 1995 Dec;17(6):374–82

Synchronous multifocal osteosarcoma: results in twelve patients treated with neoadjuvant chemotherapy and simultaneous resection of all involved bones. Bacci G, et al. **Ann Oncol** 1996 Oct;7(8):864–6

Three-dimensional type I collagen gel system containing MG-63 osteoblasts-like cells as a model for studying local bone reaction caused by metastatic cancer cells. Sourla A, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2773–80

Chondrosarcoma of the thumb arising from a solitary enchondroma. Peiper M, et al. **Arch Orthop Trauma Surg** 1997;116(4):246–8

Primary leiomyosarcoma of bone: report of seven cases and review of the literature. Khoddami M, et al. **Arch Pathol Lab Med** 1996 Jul;120(7):671–5 (21 ref.)

Periosteal chondrosarcoma: a case report and review of the literature. Putti TC, et al. **Arch Pathol Lab Med** 1997 Jan; 121(1):70–4 (14 ref.)

Pathological case of the month. Adamantinoma. Iravani S, et al. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):427–8

Osteosarcoma and pulmonary metastases: 15-year experience from a single institution. Ellis PM, et al. **Aust N Z J Surg** 1997 Sep;67(9):625–9

Lytic activity of IL-2 and IL-12 stimulated NK cells against HOS osteosarcoma cell line. Mariani E, et al. **Boll Soc Ital Biol Sper** 1996 Jan-Feb;72(1-2):21–7

A murine model of human myeloma bone disease. Garrett IR, et al. **Bone** 1997 Jun;20(6):515–20

Human osteosarcoma (OST) induces mouse reactive bone formation in xenograft system. Tokunaga K, et al. **Bone** 1996 Nov;19(5):447–54

Fine-needle aspiration biopsy in the diagnosis and management of bone lesions: a study of 450 cases. Bommer KK, et al. **Cancer** 1997 Jun 25;81(3):148–56

Myxoid chondrosarcoma (chordoid sarcoma) of bone: a report of two cases and review of the literature. Kilpatrick SE, et al. **Cancer** 1997 May 15;79(10):1903–10 (42 ref.)

Conventional and dedifferentiated parosteal osteosarcoma. Diagnosis, treatment, and outcome. Sheth DS, et al. **Cancer** 1996 Nov 15;78(10):2136–45

Intertrabecular pattern of tumors metastatic to bone. Yamaguchi T, et al. **Cancer** 1996 Oct 1;78(7):1388–94

Reversal of the in vivo metastatic phenotype of human tumor cells by an anti-CAPL (mts1) ribozyme. Maelandsmo GM, et al. **Cancer Res** 1996 Dec 1;56(23):5490–8

Spontaneous malignant transformation of fibrous dysplasia. Xu D, et al. **Chin Med J (Engl)** 1996 Dec;109(12):941–5

Intraoperative pathologic consultation (IOC) for tumors of the bone. Mirra JM, et al. **Chir Organi Mov** 1997 Jan-Mar; 82(1):7–31 **(Eng, Ita)**

A novel spontaneous metastasis model of human osteosarcoma developed using orthotopic transplantation of intact tumor tissue into tibia of nude mice. Crnalic S, et al. **Clin Exp Metastasis** 1997 Mar;15(2):164–72

Pancreatic metastasis from Ewing's sarcoma. Mulligan ME, et al. **Clin Imaging** 1997 Jan-Feb;21(1):23–6

Primary monophasic synovial sarcoma of the brachial plexus: report of a case and review of the literature. Tacconi L, et al. **Clin Neurol Neurosurg** 1996 Aug;98(3):249–52 (7 ref.)

A 14-year-old patient with Ewing's sarcoma presenting at autopsy with multiple neurofibrillary tangles and Lewy bodies in addition to hemiatrophy of the central nervous system. Okeda R, et al. **Clin Neuropathol** 1997 Mar-Apr; 16(2):77–84

Giant cell tumor of the occipital bone in a case of von Recklinghausen neurofibromatosis. Opitz H, et al. **Clin Neuropathol** 1996 Jul-Aug;15(4):226–30

Giant cell tumor of bone. Prognosis and treatment of pulmonary metastases. Cheng JC, et al. **Clin Orthop** 1997 May;(338):205–14

Shoulder pain in a 15-year-old boy [clinical conference] Fritz GR, et al. **Clin Orthop** 1997 Aug;(341):283–5, 287–8

Painful pelvic lesion in a 40-year-old man. Johnston JO, et al. **Clin Orthop** 1997 Mar;(336):337–9, 343–4

Imaging assessment of the response of bone tumors to preoperative chemotherapy. Kawai A, et al. **Clin Orthop** 1997 Apr;(337):216–25

Analysis of giant cell tumor of bone with pulmonary metastases. Osaka S, et al. **Clin Orthop** 1997 Feb; (335):253–61

Incidental cartilage lesion in a 71-year-old man [clinical conference] Panicek DM, et al. **Clin Orthop** 1996 Dec; (333):267–70, 276–7

Accuracy of the Jamshidi trocar biopsy in the diagnosis of bone tumors. van der Bijl AE, et al. **Clin Orthop** 1997 Jan; (334):233–43

Flow cytometric analysis of P-glycoprotein expression and drug efflux in human soft tissue and bone sarcomas. Kunikane H, et al. **Cytometry** 1997 Aug 15;30(4):197–203

Metastatic chondrosarcoma in soft tissue diagnosed by fine needle aspiration (FNA) cytology. Bansal R, et al. **Cytopathology** 1996 Feb;7(1):70–2

Cytogenetic studies on fine-needle aspiration samples from osteosarcoma and Ewing's sarcoma. Akerman M, et al. **Diagn Cytopathol** 1996 Jul;15(1):17–22

Fine-needle aspiration cytology of sarcoma: retrospective review of diagnostic utility and specificity. Costa MJ, et al. **Diagn Cytopathol** 1996 Jul;15(1):23–32

Fine-needle aspirate of primary lymphoma of bone. Htwe WM, et al. **Diagn Cytopathol** 1996 Dec;15(5):421–6

Chondroblastoma of bone: use of fine-needle aspiration biopsy and potential diagnostic pitfalls. Kilpatrick SE, et al. **Diagn Cytopathol** 1997 Jan;16(1):65–71

Percutaneous bone biopsy, techniques and indications. Berning W, et al. **Eur Radiol** 1996;6(6):875–81 (21 ref.)

Isolated brain metastases of osteosarcoma in a patient presenting with a patent foramen ovale. Menassa L, et al. **Eur Radiol** 1997;7(3):365–7

Total and regional bone mass in metastatic cancer of the prostate. Rico H, et al. **Eur Urol** 1996;30(1):73–6

Primary leiomyosarcoma affecting the ankle joint. Delsmann BM, et al. **Foot Ankle Int** 1996 Jul;17(7):420–4 (31 ref.)

Subungual exostosis of the foot. de Palma L, et al. **Foot Ankle Int** 1996 Dec;17(12):758–63

Intraosseous lipoma of the calcaneus. Greenspan A, et al. **Foot Ankle Int** 1997 Jan;18(1):53–6 (26 ref.)

Aggressive osteoblastoma with focal malignant transformation and development of pulmonary metastases. A case report with a review of literature. Kunze E, et al. **Gen Diagn Pathol** 1996 May;141(5–6):377–92 (41 ref.)

Expression of P-glycoprotein in high grade osteosarcomas with special emphasis on chondroblastic subtype. Radig K, et al. **Gen Diagn Pathol** 1997 Feb;142(3–4):139–45

Chondromyxoid fibroma-like osteosarcoma: a distinct variant of low-grade osteosarcoma. Chow LT, et al. **Histopathology** 1996 Nov;29(5):429–36

Malignant transformation of chondroblastoma. Pösl M, et al. **Histopathology** 1996 Nov;29(5):477–80

Chondrocytic cell differentiation in clear cell chondrosarcoma. Aigner T, et al. **Hum Pathol** 1996 Dec; 27(12):1301–5

The prognostic significance of histomorphometry and immunohistochemistry in giant cell tumors of bone. Fornasier VL, et al. **Hum Pathol** 1996 Aug;27(8):754–60

Epithelioid angiosarcoma of bone. Hasegawa T, et al. **Hum Pathol** 1997 Aug;28(8):985–9

Distribution of extracellular matrix components in adamantinoma of long bones suggests fibrous-to-epithelial transformation. Hazelbag HM, et al. **Hum Pathol** 1997 Feb; 28(2):183–8

Expression of metalloproteinases and tissue inhibitors of metalloproteinases in giant cell tumor of bone: an immunohistochemical study with clinical correlation. Schoedel KE, et al. **Hum Pathol** 1996 Nov;27(11):1144–8

Epithelioid haemangioma (benign haemangioendothelioma of bone)--a case report. Madhuri V, et al. **Indian J Cancer** 1996 Dec;33(4):173–7

Staging systems for musculoskeletal neoplasia. Springfield DS. **Instr Course Lect** 1994;43:537–42 (11 ref.)

Osteoid osteoma with a multicentric nidus. Gonzalez G, et al. **Int Orthop** 1996;20(1):61–3 (7 ref.)

Local recurrences in giant cell tumour of bone. Long-term follow up of 31 cases. Lausten GS, et al. **Int Orthop** 1996; 20(3):172–6

Malignant transformation of a multiple cartilaginous exostosis--a case report. Willms R, et al. **Int Orthop** 1997; 21(2):133–6 (26 ref.)

Ki-67 immunostaining as a tool in the diagnosis of central cartilage lesions. Weinstein LJ, et al. **Iowa Orthop J** 1996; 16:39–45

Late malignant transformation of a benign giant-cell tumor of bone. A case report. Sakkers RJ, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):259–62

Ewing's sarcoma of bone--a study of 71 cases by fine needle aspiration cytology. Mondal A, et al. **J Indian Med Assoc** 1996 Apr;94(4):135–7, 142

Adamantinoma of tibia with predominant features of fibrous dysplasia--a case report. Kim JY, et al. **J Korean Med Sci** 1996 Oct;11(5):444–8

Cemento-ossifying fibroma of the petromastoid region: case report and review of the literature. Brademann G, et al. **J Laryngol Otol** 1997 Feb;111(2):152–5 (28 ref.)

Ultrastructural features and P-glycoprotein immunolocalization in Saos-2/DX580 multidrug-resistant human osteosarcoma cells. Maraldi NM, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):93–100

Multifocal plasmacytoma of hand and foot bones. Antonijevic N, et al. **Leuk Lymphoma** 1996 May;21(5–6):505–7

Fine needle aspiration cytology in the diagnosis of bone tumours. Jayaram G, et al. **Malays J Pathol** 1994 Dec; 16(2):137–44

Epithelioid hemangioma of small tubular bones: a report of three cases, two of them associated with pregnancy. Lamovec J, et al. **Mod Pathol** 1996 Aug;9(8):821–7

Molecular and immunohistochemical identification of p53 alterations in bone and soft tissue sarcomas. Mousses S, et al. **Mod Pathol** 1996 Jan;9(1):1–6

Dedifferentiated chondrosarcoma of the rib with a malignant mesenchymomatous component: an autopsy case report. Ishida T, et al. **Pathol Int** 1997 Jun;47(6):397–403

Cytophotometric DNA-analysis of bone-tumors. A new method for preparing formalin-fixed tissue and the regarding of DNA-malignancy grade and its prognostic value. Adler CP, et al. **Pathol Res Pract** 1996 May; 192(5):437–45

Establishment and characterization of a fibrous histiocytoma cell line (NMSG 10) derived from a malignant fibrous histiocytoma. Yokota T, et al. **Pathol Res Pract** 1995 Dec; 191(12):1231–8

Bone invasion by a recurrent digital fibroma of infancy in a child with Beckwith-Wiedemann syndrome. Craver RD, et al. **Pediatr Pathol Lab Med** 1995 Jan-Feb;15(1):147–51

Adenocarcinoma of minor salivary gland origin with skeletal metastasis in a child. McDermott M, et al. **Pediatr Pathol Lab Med** 1996 Jan-Feb;16(1):89–98

Effects of reoxygenation on repair of potentially lethal radiation damage in cultured MG-63 osteosarcoma cells. Iizuka M, et al. **Radiat Res** 1997 Feb;147(2):179–84

Toxicity of inhaled plutonium dioxide in beagle dogs.

Muggenburg BA, et al. **Radiat Res** 1996 Mar;145(3):361–81

Parosteal osteosarcoma: value of MR imaging and CT in the prediction of histologic grade. Jelinek JS, et al. **Radiology** 1996 Dec;201(3):837–42

DNA flow cytometric analysis of chest-wall chondroma and chondrosarcoma. Shih CS, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3–4):157–61

Small round cell tumors of bone and soft tissue. Introduction. Llombart-Bosch A. **Semin Diagn Pathol** 1996 Aug; 13(3):149–52 (47 ref.)

Histology, immunohistochemistry, and electron microscopy of small round cell tumors of bone. Llombart-Bosch A, et al. **Semin Diagn Pathol** 1996 Aug;13(3):153–70 (147 ref.)

Cytogenetics and tissue culture of small round cell tumors of bone and soft tissue. Noguera R. **Semin Diagn Pathol** 1996 Aug;13(3):171–83 (134 ref.)

Benign giant cell tumor of bone with osteosarcomatous transformation ("dedifferentiated" primary malignant GCT): report of two cases. Brien EW, et al. **Skeletal Radiol** 1997 Apr;26(4):246–55

Clear-cell chondrosarcoma with elevated alkaline phosphatase, mistaken for osteosarcoma on biopsy. Brien EW, et al. **Skeletal Radiol** 1996 Nov;25(8):770–4

Microscopic intraosseous extension of osteosarcoma: assessment on dynamic contrast-enhanced MRI. Iwasawa T, et al. **Skeletal Radiol** 1997 Apr;26(4):214–21

Chondroblastoma with multiple distant soft tissue metastases. Khalili K, et al. **Skeletal Radiol** 1997 Aug;26(8):493–6

Low-grade parosteal osteosaracoma of the ulna with dedifferentiation into high-grade osteosarcoma. Par:ovi S, et al. **Skeletal Radiol** 1996 Jul;25(5):497–500

Characteristics of high and low laminin-adherent Dunn osteosarcoma cells selected by adhesiveness to laminin. Correlation between invasiveness through the extracellular matrix and pulmonary metastatic potential. Yudoh K, et al. **Tumour Biol** 1996;17(6):332–40

Phalangeal intraosseous well-differentiated osteosarcoma of the hand. Sugano I, et al. **Virchows Arch** 1997 Feb; 430(2):185–9

Neurogenic potential of Ewing's sarcoma cells. Sugimoto T, et al. **Virchows Arch** 1997 Jan;430(1):41–6

Primary leiomyosarcoma of bone. Coard KC, et al. **West Indian Med J** 1996 Dec;45(4):119–21

[A clinico-pathologic study of primary malignant fibrous histiocytoma of bone] Liu P, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):146–9 (Eng. Abstr.) **(Chi)**

[Malignant transformation of multiple chondroma. Apropos of a case] Dujardin F, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(2):160–3 (Eng. Abstr.) **(Fre)**

[Magnetic resonance tomography in osteoid osteoma: more confusion than benefit?] Zanetti M, et al. **Schweiz Rundsch Med Prax** 1997 Mar 11;86(11):432–6 (Eng. Abstr.) **(Ger)**

[Magnetic resonance findings in a case of intraosseus fibular lipoma] Arcuri PP, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):287–9 **(Ita)**

[Assessment of prognostic factors in surgical treatment for the pulmonary metastasis of osteosarcoma based on results of 17 patients] Kondo T, et al. **Kyobu Geka** 1996 Oct; 49(11):896–901 (Eng. Abstr.) **(Jpn)**

[Percutaneous CT guided bone biopsy in patients with suspected bone neoplasm] Yasui K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Mar; 56(4):178–82 (Eng. Abstr.) **(Jpn)**

[Primary malignant lymphoma of the ischium] Okajima Y, et al. **Nippon Ika Daigaku Zasshi** 1997 Jun;64(3):272–4 **(Jpn)**

[Prognostic factors of resected pulmonary metastases of osteogenic sarcoma] Inoue K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1065–9 (Eng. Abstr.) **(Jpn)**

[On the histogenesis and classification of fibrous, lipomatous, fibrohistiocytic and related tumors of bone and soft tissues] Hizawa K. **Nippon Seikeigeka Gakkai Zasshi** 1996 Oct; 70(10):685–95 (30 ref.) **(Jpn)**

[Pathologic diagnosis on bone and soft tissue tumors by molecular biological methods] Nojima T, et al. **Rinsho Byori** 1997 Jul;45(7):661–6 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Lactic dehydrogenase as a prognostic factor in the development of pulmonary metastatic disease in patients with osteosarcoma] López-Aguilar E, et al. **Gac Med Mex** 1996 Jul-Aug;132(4):363–6 (Eng. Abstr.) **(Spa)**

[Chronic myeloid leukemia developing into a multifocal extramedullary blast crisis (see comments)] Tapia M, et al. **Sangre (Barc)** 1997 Feb;42(1):77–80 (22 ref.) (Eng. Abstr.). Comment in: Sangre (Barc) 1997 Feb;42(1):5–6. **(Spa)**

PHYSIOPATHOLOGY

Hypercalcemia of malignancy. Mundy GR, et al. **Am J Med** 1997 Aug;103(2):134–45 (81 ref.)

Osteogenic protein-1 stimulates mRNA levels of BMP-6 and decreases mRNA levels of BMP-2 and -4 in human osteosarcoma cells. Honda Y, et al. **Calcif Tissue Int** 1997 Mar;60(3):297–301

Stride analysis after proximal tibial replacement. Zohman GL, et al. **Clin Orthop** 1997 Jun;(339):180–4

Research on bone metastases quickens its pace [news] Ziegler J. **J Natl Cancer Inst** 1997 Jun 18;89(12):841–3

Should bisphosphonates be standard therapy for bone pain? Paterson AH. **Support Care Cancer** 1997 May;5(3):200–4 (21 ref.)

[Effectiveness of Ge-132 to relieve pain and smooth home care administration for the terminal cancer patient] Dozono H, et al. **Gan To Kagaku Ryoho** 1996 Dec;23 Suppl 3:291–5 (Eng. Abstr.) **(Jpn)**

[What can we do for cancer patients with pain to go home] Mogi M, et al. **Gan To Kagaku Ryoho** 1996 Dec;23 Suppl 3:281–4 (Eng. Abstr.) **(Jpn)**

[Home terminal care for lung cancer--subcutaneous injection with morphine hydrochloride for cancer related pain from metastatic bone cancer in a terminal lung cancer patient] Nomura Y, et al. **Gan To Kagaku Ryoho** 1996 Dec;23 Suppl 3:285–7 (Eng. Abstr.) **(Jpn)**

[Osteogenic sarcoma and androgens] Trapeznikov NN, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):305–10 **(Rus)**

PREVENTION & CONTROL

Bisphosphonate therapy in metastatic breast cancer. Blomqvist C, et al. **Acta Oncol** 1996;35 Suppl 5:81–3 (17 ref.)

Inhibition of osteolytic bone metastasis of breast cancer by combined treatment with the bisphosphonate ibandronate and tissue inhibitor of the matrix metalloproteinase-2. Yoneda T, et al. **J Clin Invest** 1997 May 15;99(10):2509–17

Jefferson receives patent for new blood test to improve diagnosis of prostate cancer [news] **Oncology (Huntingt)** 1996 Sep;10(9):1286

[Is the elimination of osteosarcoma cells with intraoperative "mesh autotransfusion" and leukocyte depletion filters possible?] Müller M, et al. **Anaesthesist** 1996 Sep; 45(9):834–8 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Experiences of cancer in children and adolescents. Novakovic B, et al. **Cancer Nurs** 1996 Feb;19(1):54–9

RADIOGRAPHY

An unusual localisation and presentation of an osteoid osteoma. de Smet L, et al. **Acta Orthop Belg** 1997 Jun; 63(2):128–31

Osteoid osteoma of the carpus. Case reports and a review of the literature. Lisanti M, et al. **Acta Orthop Belg** 1996 Dec;62(4):195–9 (27 ref.)

The radiographic stage of giant cell tumor related to stromal cells' proliferation. Tissue cultures in 13 cases. Robinson D, et al. **Acta Orthop Scand** 1997 Jun;68(3):294–7

Bone tumour simulators. Problems and pitfalls in radiology. Fabiny R. **Acta Orthop Scand Suppl** 1997 Feb;273:14–20

Benign osteoblastoma of the temporal bone. Ohkawa M, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):324–6

Usefulness of radiography in differentiating enchondroma from central grade 1 chondrosarcoma. Geirnaerdt MJ, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1097–104

Fine-needle aspiration biopsy of mesenchymal lesions: the value of clinicoradiologic correlation and the importance of histogenetic subtyping [letter; comment] Kilpatrick SE, et al. **Am J Clin Pathol** 1997 Aug;108(2):237. Comment on: Am J Clin Pathol 1996 Nov;106(5):561–4.

Dysplasia epiphysealis hemimelica in an elderly patient. DeVine JH, et al. **Am J Orthop** 1997 Mar;26(3):223–5

Prediction of pathological subtrochanteric fractures due to metastatic lesions. Dijkstra PD, et al. **Arch Orthop Trauma Surg** 1997;116(4):221–4

Multiple osteocartilaginous exostosis. A follow-up study. Ozaki T, et al. **Arch Orthop Trauma Surg** 1996; 115(5):255–61

Intraosseous lipoma. El-Atta MA, et al. **Arthritis Rheum** 1997 May;40(5):978–9

Bizarre parosteal osteochondromatous proliferation: a review of seven cases [published erratum appears in Aust N Z J Surg 1996 Nov;66(11):784] Smith NC, et al. **Aust N Z J Surg** 1996 Oct;66(10):694–7

Desmoplastic fibroma of the proximal ulna. George A, et al. **Australas Radiol** 1997 May;41(2):199–200

Unifocal Langerhans' cell histiocytosis [letter; comment] Hoeffel C, et al. **Australas Radiol** 1996 Aug;40(3):369–70 . Comment on: Australas Radiol 1994 Nov;38(4):313–4.

Plain film approach to tumours and tumour-like conditions of bone. Peh WC, et al. **Br J Hosp Med** 1995 Dec 13-1996 Jan 16;54(11):549–57 (05 ref.)

Knee tumours--duration and nature of symptoms prior to investigation. Dickinson FL, et al. **Br J Radiol** 1997 Jun; 70(834):635–7

Ewing's sarcoma of the hand: a case report. Cook MA, et al. **Bull Hosp Jt Dis** 1996;55(2):75–7 (12 ref.)

Recurrent chondrosarcoma of the hyoid bone. Hediger R, et al. **Clin Imaging** 1997 Jan-Feb;21(1):69–72

Low-grade osteosarcoma of metacarpal bone. Hoeffel C, et al. **Clin Imaging** 1996 Oct-Dec;20(4):282–5

Paraarticular osteochondroma of the knee: report of 2 cases and review of the literature. Reith JD, et al. **Clin Orthop** 1997 Jan;(334):225–32 (17 ref.)

Aneurysmal bone cyst and giant cell tumor of the foot. Casadei R, et al. **Foot Ankle Int** 1996 Aug;17(8):487–95 (58 ref.)

Quantitative analysis of the plain radiographic appearance of Ewing's sarcoma of bone. Zelazny A, et al. **Invest Radiol** 1997 Jan;32(1):59–65

Nonossifying fibroma. Four cases and review of the literature. Glockenberg A, et al. **J Am Podiatr Med Assoc** 1997 Feb;87(2):66–9 (8 ref.)

Radiological and clinical recurrence of giant-cell tumour of bone after the use of cement. Remedios D, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):26–30

Scaphoid osteochondroma mimicking carpal coalition. Rice J, et al. **J Hand Surg [Br]** 1996 Dec;21(6):779–80

Chondrosarcoma of the anterior cranial fossa. Report of two cases. Spallone A, et al. **J Neurosurg Sci** 1996 Jun; 40(2):115–20

Osteoid osteoma of the clavicle. Shaffrey CI, et al. **J Shoulder Elbow Surg** 1997 Jul-Aug;6(4):396–9 (20 ref.)

Haemangioma of the zygoma: case report. Pinna V, et al. **Neuroradiology** 1997 Mar;39(3):216–8

Osteoid osteoma of the olecranon. Rettig A, et al. **Orthopedics** 1996 Nov;19(11):977–9

Osteoblastoma. Ruggieri P, et al. **Orthopedics** 1996 Jul; 19(7):621–4 (18 ref.)

Aggressive appearance of non-ossifying fibroma with pathologic fracture: a case report. Matsuo M, et al. **Radiat Med** 1997 Mar-Apr;15(2):113–5

Extensive intraosseous gas associated with lymphangiomatosis of bone: report of three cases. Brown RR, et al. **Radiology** 1997 Oct;205(1):260–2

Parosteal osteosarcoma: value of MR imaging and CT in the prediction of histologic grade. Jelinek JS, et al. **Radiology** 1996 Dec;201(3):837–42

Giant cell tumor of bone in children and adolescents. Hoeffel JC, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):618–23 (18 ref.)

Unusual tenosynovial osteochondroma of the foot [letter] Kageyama Y, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):63–4

Dedifferentiated parosteal osteosarcoma of the radius. Abdelwahab IF, et al. **Skeletal Radiol** 1997 Apr;26(4):242–5

Can conventional radiographs be used to monitor the effect of neoadjuvant chemotherapy in patients with osteogenic sarcoma? Holscher HC, et al. **Skeletal Radiol** 1996 Jan; 25(1):19–24

Pelvic granulocytic sarcoma. Laufer L, et al. **Skeletal Radiol** 1996 Oct;25(7):693–5

Imaging of bone tumors: evaluation of direct magnification radiography. Link TM, et al. **Skeletal Radiol** 1996 Jul; 25(5):441–7

AIDS-related Kaposi sarcoma involving the tarsal bones. Nguyen C, et al. **Skeletal Radiol** 1996 Jan;25(1):100–2 (9 ref.)

Primary hemangiopericytoma of bone located in the tibia. Sahin-Akyar G, et al. **Skeletal Radiol** 1997 Jan;26(1):47–50

Subperiosteal osteoid osteoma: radiographic and pathologic manifestations. Shankman S, et al. **Skeletal Radiol** 1997 Aug;26(8):457–62

Chondromyxoid fibroma. White PG, et al. **Skeletal Radiol** 1996 Jan;25(1):79–81 (11 ref.)

Detection of skeletal metastases in Nigerian breast cancer patients: evaluation of radioisotope bone scan and radiography. Ketiku KK, et al. **West Afr J Med** 1996 Apr-Jun;15(2):81–4

[Radiologic assessment of the effect of chemotherapy in malignant bone neoplasms] Jurik AG, et al. **Ugeskr Laeger** 1996 Dec 2;158(49):7099–101 **(Dan)**

[Bone lesions due to endemic African Kaposi sarcoma: a case report] Simon F, et al. **Med Trop (Mars)** 1997;57(2):174–6 (Eng. Abstr.) **(Fre)**

[Primary pleural metastasis of osteosarcoma] Bumann D, et al. **Aktuelle Radiol** 1996 Jan;6(1):41–4 (Eng. Abstr.) **(Ger)**

[Intraosseus lipoma of the calcaneus. Assessment of a case with computerized tomography] Neri E, et al. **Radiol Med (Torino)** 1996 Oct;92(4):482–4 **(Ita)**

RADIONUCLIDE IMAGING

Nuclear medicine techniques provide unique physiologic characterization of suspected and known soft tissue and bone sarcomas. Hicks RJ. **Acta Orthop Scand Suppl** 1997 Feb;273:25–36 (38 ref.)

Inguinoscrotal lymphatic reflux detected by lymphoscintigraphy. Kinuya S, et al. **Ann Nucl Med** 1996 Aug;10(3):351–2

A case of malignant fibrous histiocytoma of the ilium, evaluation by blood-pool scintigraphy. Ohta H, et al. **Ann Nucl Med** 1996 Nov;10(4):437–9

99mTc-antigranulocyte bone marrow scintigraphy of breast and prostate skeletal metastases. Limouris GS, et al. **Anticancer Res** 1997 May-Jun;17(3B):1615–8

Musculoskeletal pain as an indicator of occult malignancy. Yield of bone scintigraphy. Jacobson AF. **Arch Intern Med** 1997 Jan 13;157(1):105–9

The use of 99mTc-MIBI scanning in multiple myeloma. Tirovola EB, et al. **Br J Cancer** 1996 Dec;74(11):1815–20

When is bone scintigraphy necessary in the assessment of newly diagnosed, untreated prostate cancer? Haukaas S, et al. **Br J Urol** 1997 May;79(5):770–6

Colon visualization on a bone scan from metastatic ovarian carcinoma: SPECT correlation. Bader DA. **Clin Nucl Med** 1997 Jan;22(1):52–4

Scintigraphy of lower extremity cadaveric bone allografts in osteosarcoma patients. Bar-Sever Z, et al. **Clin Nucl Med** 1997 Aug;22(8):532–5

In-111 pentatreotide uptake in a chondrosarcoma. Baxter KG, et al. **Clin Nucl Med** 1996 Dec;21(12):1008–9

Metastatic thymic carcinoma demonstrated by radionuclide

bone scan. Becker CP, et al. **Clin Nucl Med** 1996 Jul; 21(7):583–4

Soft-tissue involvement by adenocarcinoma imaged during bone scintigraphy. Bordy Z, et al. **Clin Nucl Med** 1997 Jul;22(7):508

Improved detection of disseminated pheochromocytoma using post therapy I-131 MIBG scanning. Campbell L, et al. **Clin Nucl Med** 1996 Dec;21(12):960–3

Diagnosis of malignant change in Paget's disease by Tl-201. Colarinha P, et al. **Clin Nucl Med** 1996 Apr;21(4):299–301

Bone scintigraphy in recurrent osteoid osteoma of the Talus. Groshar D, et al. **Clin Nucl Med** 1996 Oct;21(10):817–8

Superscan in patients with nasopharyngeal carcinoma. Liu RS, et al. **Clin Nucl Med** 1996 Apr;21(4):302–6

Richter's syndrome. Findings on Ga-67 and bone marrow imaging. Lorberboym M, et al. **Clin Nucl Med** 1996 Apr; 21(4):319–20

I-123 iodoamphetamine scintigraphic detection of bone metastases from malignant melanoma. Otsuka N, et al. **Clin Nucl Med** 1996 Nov;21(11):847–50

Scintigraphic evaluation of metastatic osteosarcoma. The importance of SPECT bone scintigraphy and correlative imaging. Rivera-Rodríguez JE. **Clin Nucl Med** 1997 Jun; 22(6):440–1

Bone lymphoma. Comparison of Tl-201 and Ga-67 citrate scintigraphy in assessment of treatment response. Roach PJ, et al. **Clin Nucl Med** 1996 Sep;21(9):689–94

Survey of myeloblastoma with Ga-67 scan in a patient with acute leukemia. Takayama T, et al. **Clin Nucl Med** 1997 Jun;22(6):434–7

Tc-99m HMDP imaging of a large chondrosarcoma of the knee. Tamgac F, et al. **Clin Nucl Med** 1997 Apr;22(4):254–5

Aseptic necrosis. A scintigraphic imitator of osseous involvement in Ga-67 avid lymphoma. Van de Wiele C, et al. **Clin Nucl Med** 1997 Feb;22(2):101–3

Correlation of the findings of thallium-201 chloride scans with those of other imaging modalities and histology following therapy in patients with bone and soft tissue sarcomas [letter] Kostakoglu L, et al. **Eur J Nucl Med** 1996 Nov;23(11):1558

Use of 99mTc-MIBI scintigraphy in the evaluation of the response of osteosarcoma to chemotherapy. Söderlund V, et al. **Eur J Nucl Med** 1997 May;24(5):511–5

Correlation between bone scan findings and collagenase activities in patients with breast cancer. Kim CG, et al. **Invest Radiol** 1997 May;32(5):302–5

Resected sigmoid carcinoma with 13-year metastasis-free interval. Sternal recurrence detected by immunoscintigraphy. Vasireddi SS, et al. **J Clin Gastroenterol** 1996 Sep;23(2):128–30

Quantitative bone metastases analysis based on image segmentation. Erdi YE, et al. **J Nucl Med** 1997 Sep; 38(9):1401–6

Evaluation of technetium-99m-MIBI scintigraphy in metastatic differentiated thyroid carcinoma. Miyamoto S, et al. **J Nucl Med** 1997 Mar;38(3):352–6

Comparison of technetium-99m-MIBI and technetium-99m-tetrofosmin uptake by musculoskeletal sarcomas. Söderlund V, et al. **J Nucl Med** 1997 May; 38(5):682–6

Evaluating benign and malignant bone and soft-tissue lesions with technetium-99m-MIBI scintigraphy. Taki J, et al. **J Nucl Med** 1997 Apr;38(4):501–6

Gallium-67 and technetium-99m-MDP scintigraphy for osseous involvement in lymphoma [letter; comment] Van de Wiele C, et al. **J Nucl Med** 1996 Mar;37(3):548. Comment on: J Nucl Med 1995 Mar;36(3):446–50.

Correlation between bone metabolic markers and bone scan in prostatic cancer. Maeda H, et al. **J Urol** 1997 Feb; 157(2):539–43

Detection of bony metastases of androgen-independent prostate cancer by PET-FDG. Yeh SD, et al. **Nucl Med Biol** 1996 Aug;23(6):693–7

Clinical evaluation of the bone marrow imaging agent 99Tcm-phytate in the detection of bone metastases. Chang CP, et al. **Nucl Med Commun** 1996 Dec;17(12):1030–4

Panhypopituitarism as a consequence of metastase of breast cancer in sella turcica. Ruiz Hernández G, et al. **Nuklearmedizin** 1996 Aug;35(4):143–5

Diaphyseal medullary stenosis (sclerosis) with bone malignancy (malignant fibrous histiocytoma): Hardcastle syndrome. Norton KI, et al. **Pediatr Radiol** 1996 Sep; 26(9):675–7

Can bone scintigraphy detect additional metastatic sites unrevealed by CT in patients with recurrent ovarian carcinoma? Uysal U, et al. **Radiat Med** 1997 Jan-Feb; 15(1):55–8

Osteoid osteoma: CT-guided percutaneous excision confirmed with immediate follow-up scintigraphy in 16 outpatients. Roger B, et al. **Radiology** 1996 Oct; 201(1):239–42

Diagnostic bone scanning in oncology. Krasnow AZ, et al. **Semin Nucl Med** 1997 Apr;27(2):107–41 (156 ref.)

Oncologic imaging: interactions of nuclear medicine with CT and MRI using the bone scan as a model. Tryciecky EW, et al. **Semin Nucl Med** 1997 Apr;27(2):142–51 (39 ref.)

The place of mIBG imaging in the neuroblastoma diagnostic strategy [letter; comment] Giammarile F, et al. **Skeletal Radiol** 1997 May;26(5):323. Comment on: Skeletal Radiol 1995 May;24(4):287–90.

Osteoblastic metastases from breast carcinoma with false-negative bone scan. Munk PL, et al. **Skeletal Radiol** 1997 Jul;26(7):434–7

Role of bone scan in breast cancer follow-up. Maffioli L, et al. **Tumori** 1997 Mar-Apr;83(2):547–9

Association of radionuclide bone scan and serum alkaline phosphatase in patients with metastatic renal cell carcinoma. Seaman E, et al. **Urology** 1996 Nov;48(5):692–5

Detection of skeletal metastases in Nigerian breast cancer patients: evaluation of radioisotope bone scan and radiography. Ketiku KK, et al. **West Afr J Med** 1996 Apr-Jun;15(2):81–4

[Hot spots: metastases or osteoporosis?] Daemen HM, et al. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):977–80 (Eng. Abstr.) **(Dut)**

[Validity of bone scintigraphy for radiotherapy treatment planning of the skeletal system] Schultze J, et al. **Nuklearmedizin** 1996 Apr;35(2):59–62 (Eng. Abstr.) **(Ger)**

[Evaluation of bone and soft tissue lesion using 99mTc-MIBI: comparison with 201Tl and the relation to chemotherapeutic effect] Sumiya H, et al. **Kaku Igaku** 1997 Feb;34(2):105–11 (Eng. Abstr.) **(Jpn)**

[Usefulness of 99mTc-MIBI SPECT in the metastatic lesions of thyroid cancer] Kobayashi M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb; 57(3):127–32 (Eng. Abstr.) **(Jpn)**

[Correlation between specific prostatic antigen and findings with total body bone scintigraphy] López M, et al. **Arch Esp Urol** 1996 Nov;49(9):953–5 (Eng. Abstr.) **(Spa)**

RADIOTHERAPY

Bone sarcomas. Alvegård T. **Acta Oncol** 1996;35 Suppl 7:123–4

Skeletal metastases. Möller T. **Acta Oncol** 1996;35 Suppl 7:125–36

The treatment of osseous metastases of hormone-refractory prostate cancer with external beam radiotherapy and Strontium-89. De Ruysscher D, et al. **Acta Urol Belg** 1996 Sep;64(3):13–9 (44 ref.)

Treatment of metastatic bone pain using the bone seeking radiopharmaceutical Re-186-HEDP. De Klerk JM, et al. **Anticancer Res** 1997 May-Jun;17(3B):1773–7 (21 ref.)

Availability of rhenium-188 from the alumina-based tungsten-188/rhenium-188 generator for preparation of rhenium-188-labeled radiopharmaceuticals for cancer treatment. Knapp FF Jr, et al. **Anticancer Res** 1997 May-Jun;17(3B):1783–95

Rhenium-186-HEDP palliative treatment in disseminated bone metastases due to prostate cancer. Limouris G, et al. **Anticancer Res** 1997 May-Jun;17(3B):1699–704

Palliative therapy using rhenium-186-HEDP in painful breast osseous metastases. Limouris GS, et al. **Anticancer Res** 1997 May-Jun;17(3B):1767–72

Prediction of tumor absorbed dose by Tc-99m-MDP scintigraphy prior to treatment with Sr-89. Manetou A, et al. **Anticancer Res** 1997 May-Jun;17(3B):1845–7

Radiotherapy in the treatment of solitary plasmacytoma. Jyothirmayi R, et al. **Br J Radiol** 1997 May;70(833):511–6

The role of palliative radiotherapy for bone metastases. Kirkbride P, et al. **Can J Oncol** 1996 Feb;6 Suppl 1:33–8 (27 ref.)

Radiotherapy for painful bone metastases: a systematic review. McQuay HJ, et al. **Clin Oncol (R Coll Radiol)** 1997; 9(3):150–4 (24 ref.)

Acutely exacerbated hypertension and increased inflammatory signs due to radiation treatment for metastatic pheochromocytoma. Teno S, et al. **Endocr J** 1996 Oct; 43(5):511–6

Rhenium-188 hydroxyethylidene diphosphonate: a new generator-produced radiotherapeutic drug of potential value for the treatment of bone metastases. Lin WY, et al. **Eur J Nucl Med** 1997 Jun;24(6):590–5

Improved outcome in solitary bone plasmacytomata with combined therapy. Avilés A, et al. **Hematol Oncol** 1996 Sep;14(3):111–7

Solitary plasmacytoma of bone and soft tissue. Bolek TW, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):329–33

Localized primary malignant lymphoma of bone. Dubey P, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15; 37(5):1087–93

Rapid course radiation therapy vs. more standard treatment: a randomized trial for bone metastases. Niewald M, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1085–9

Surgical complications after preoperative irradiation of Ewing's sarcoma. Hillmann A, et al. **J Cancer Res Clin Oncol** 1997;123(1):57–62

The impact of intraoperative brachytherapy on surgery of Ewing's sarcoma. Ozaki T, et al. **J Cancer Res Clin Oncol** 1997;123(1):53–6

Transient cranial neuropathy in prostatic cancer with bone metastases after rhenium-186-HEDP treatment. de Klerk JM, et al. **J Nucl Med** 1996 Mar;37(3):465–7

Quantitation of biochemical markers of bone resorption following strontium-89-chloride therapy for metastatic prostatic carcinoma. Papatheofanis FJ. **J Nucl Med** 1997 Aug;38(8):1175–9

Procedure guideline for bone pain treatment: 1.0. Society of Nuclear Medicine. Silberstein E, et al. **J Nucl Med** 1996 May;37(5):881–4

The role of radiation therapy in the management of bone metastases. Triedman SA, et al. **Med Health R I** 1996 Apr; 79(4):135–8 (20 ref.)

Samarium-153 lexidronam for painful bone metastases. **Med Lett Drugs Ther** 1997 Aug 29;39(1008):83–4

Radiosensitization with low-dose carboplatin enhances pain palliation in radioisotope therapy with strontium-89. Sciuto R, et al. **Nucl Med Commun** 1996 Sep;17(9):799–804

Radiation dose estimates of 186Re-hydroxyethylidene diphosphonate for palliation of metastatic osseous lesions: an animal model study. van Aswegen A, et al. **Nucl Med Commun** 1997 Jun;18(6):582–8

Radiolabeled bone-seeking radiopharmaceuticals. Atkins HL, et al. **Q J Nucl Med** 1996 Sep;40(3):285–9 (17 ref.)

Symptomatic relief for patients with osseous metastasis treated with radiation and methylprednisolone: a prospective randomized study. Teshima T, et al. **Radiat Med** 1996 Jul-Aug;14(4):185–8

Dose response relationship and multiple dose efficacy and toxicity of samarium-153-EDTMP in metastatic cancer to bone. Alberts AS, et al. **Radiother Oncol** 1997 May; 43(2):175–9

Radiation therapy of bone metastases in the elderly: a multicentric survey of the Italian "Geriatric Radiation Oncology Group". Mandoliti G, et al. **Rays** 1997 Jan-Mar; 22(1 Suppl):57–60

Unsealed source therapy of painful bone metastases: an update. McEwan AJ. **Semin Nucl Med** 1997 Apr; 27(2):165–82 (127 ref.)

Systemic radionuclide therapy with strontium chloride Sr 89 for painful skeletal metastases in prostate and breast cancer. Patel BR, et al. **South Med J** 1997 May;90(5):506–8

Palliative therapy with rhenium-186-HEDP for bone metastases of breast cancer. Guerra UP, et al. **Tumori** 1997 Mar-Apr;83(2):560–2

Experience with 89-strontium treatment of painful osseous metastases from breast cancer. Pizzocaro C, et al. **Tumori** 1997 Mar-Apr;83(2):558–9

Rhenium-186 hydroxyethylidene diphosphonate for treatment of painful osseous metastases from mammary carcinoma. Virotta G, et al. **Tumori** 1997 Mar-Apr; 83(2):563–5

[Vertebroplasty and percutaneous interventional radiology in bone metastases: techniques, indications, contra-indications] Deramond H, et al. **Bull Cancer Radiother** 1996;83(4):277–82 **(Fre)**

[Radiotherapy of bone metastases. A review of the literature] Simon JM. **Bull Cancer Radiother** 1996;83(4):290–8 (67 ref.) **(Fre)**

[Pain therapy with rhenium-186 HEDP in multiple bone metastases] Palmedo H, et al. **Nuklearmedizin** 1996 Apr; 35(2):63–7 (Eng. Abstr.) **(Ger)**

[Validity of bone scintigraphy for radiotherapy treatment planning of the skeletal system] Schultze J, et al. **Nuklearmedizin** 1996 Apr;35(2):59–62 (Eng. Abstr.) **(Ger)**

[Effectiveness of the radioactive strontium (89Sr) chloride agent, SMS.2P for pain palliation in patients with metastatic bone tumor in phase III multicenter clinical trial] Kimura Y, et al. **Kaku Igaku** 1996 Dec;33(12):1347–58 (Eng. Abstr.) **(Jpn)**

[89Sr Therapy for pain relief in patients with bone metastases] Koizumi K, et al. **Kaku Igaku** 1996 Nov;33(11):1243–8 (Eng. Abstr.) **(Jpn)**

[Imaging of strontium-89 uptake with bremsstrahlung using NaI scintillation camera] Narita H, et al. **Kaku Igaku** 1996 Nov;33(11):1207–12 (Eng. Abstr.) **(Jpn)**

[Clinical significance of heavy particle therapy for malignant tumor of the bone and soft tissues] Morita K. **Nippon Seikeigeka Gakkai Zasshi** 1997 Jan;71(1):11–7 (17 ref.) **(Jpn)**

[Role of radiation therapy for osseous metastasis] Watari T. **Nippon Seikeigeka Gakkai Zasshi** 1996 Oct;70(10):659–72 (29 ref.) **(Jpn)**

SECONDARY

Microinvasive follicular thyroid carcinoma detected by fine needle aspiration skeletal metastases. A case report. Dhimes P, et al. **Acta Cytol** 1997 Mar-Apr;41(2):565–8

Metastasis in meningioma. Enam SA, et al. **Acta Neurochir (Wien)** 1996;138(10):1172–7; discussion 1177–8

Bisphosphonate therapy in metastatic breast cancer. Blomqvist C, et al. **Acta Oncol** 1996;35 Suppl 5:81–3 (17 ref.)

The future of bisphosphonates in cancer. Coleman RE, et al. **Acta Oncol** 1996;35 Suppl 5:23–9 (51 ref.)

Efficacy of pamidronate in breast cancer with bone metastases: a randomized double-blind placebo controlled multicenter study. Hultborn R, et al. **Acta Oncol** 1996;35 Suppl 5:73–4

Rationale for the use of bisphosphonates in breast cancer. Kanis JA. **Acta Oncol** 1996;35 Suppl 5:61–7 (32 ref.)

Skeletal metastases. Möller T. **Acta Oncol** 1996;35 Suppl 7:125–36

Palliative treatment of bone metastases. Nielsen OS. **Acta Oncol** 1996;35 Suppl 5:58–60 (16 ref.)

Analgesic effect of bisphosphonates on bone pain in breast cancer patients: a review article. Strang P. **Acta Oncol** 1996; 35 Suppl 5:50–4 (30 ref.)

Skeletal metastases of unknown origin: a retrospective analysis of 29 cases. Jacobsen S, et al. **Acta Orthop Belg** 1997 Mar;63(1):15–22

Transarticular invasion of iliopelvic sarcomas into the sacrum. Radiological analysis of 47 cases. Ozaki T, et al.

Acta Orthop Scand 1997 Aug;68(4):381–3

Reconstruction in metastatic destruction of the acetabulum. Support rings and arthroplasty in 12 patients. Stark A, et al. **Acta Orthop Scand** 1996 Oct;67(5):435–8

The treatment of osseous metastases of hormone–refractory prostate cancer with external beam radiotherapy and Strontium–89. De Ruysscher D, et al. **Acta Urol Belg** 1996 Sep;64(3):13–9 (44 ref.)

Metastatic disease of the skeleton. Buckwalter JA, et al. **Am Fam Physician** 1997 Apr;55(5):1761–8 (13 ref.)

Symptomatic improvement associated with combined estramustine and vinblastine chemotherapy for metastatic prostate cancer. Attivissimo LA, et al. **Am J Clin Oncol** 1996 Dec;19(6):581–3

Measuring health status in patients with skeletal metastases treated by surgery. Clohisy DR, et al. **Am J Clin Oncol** 1997 Aug;20(4):424–8

Isolated facial nerve palsy from metastasis to the temporal bone: report of two cases and a review of the literature. Weiss MD, et al. **Am J Clin Oncol** 1997 Feb;20(1):19–23 (18 ref.)

Bisphosphonates for controlling pain from metastatic bone disease [see comments] Diener KM. **Am J Health Syst Pharm** 1996 Aug 15;53(16):1917–27 (67 ref.). Comment in: Am J Health Syst Pharm 1996 Aug 15;53(16):1907.

Pain management for bone metastases [editorial; comment] LaCivita CL. **Am J Health Syst Pharm** 1996 Aug 15; 53(16):1907. Comment on: Am J Health Syst Pharm 1996 Aug 15;53(16):1917–27.

Malignant pheochromocytoma, still a therapeutic challenge. Tato A, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):479–81

Comparison of biochemical markers of bone resorption in patients with metabolic and malignant bone diseases. Withold W, et al. **Ann Clin Biochem** 1996 Sep;33 (Pt 5):421–7

Low–dose prednisone and increased risk of development of bone metastases [letter; comment] Body JJ. **Ann Oncol** 1996 Aug;7(6):643. Comment on: Ann Oncol 1996 Mar;7(3):245–50.

Treatment of metastatic bone pain using the bone seeking radiopharmaceutical Re–186–HEDP. De Klerk JM, et al. **Anticancer Res** 1997 May–Jun;17(3B):1773–7 (21 ref.)

Release of daunorubicin from polymethylmethacrylate for the improvement of the local growth control of bone metastasis animal experiments. Fröschle GW, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):995–1002

Models for cancer skeletal metastasis: a reappraisal of Batson's plexus. Geldof AA. **Anticancer Res** 1997 May–Jun; 17(3A):1535–9 (45 ref.)

Availability of rhenium–188 from the alumina–based tungsten–188/rhenium–188 generator for preparation of rhenium–188–labeled radiopharmaceuticals for cancer treatment. Knapp FF Jr, et al. **Anticancer Res** 1997 May–Jun;17(3B):1783–95

Rhenium–186–HEDP palliative treatment in disseminated bone metastases due to prostate cancer. Limouris G, et al. **Anticancer Res** 1997 May–Jun;17(3B):1699–704

Palliative therapy using rhenium–186–HEDP in painful breast osseous metastases. Limouris GS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1767–72

99mTc–antigranulocyte bone marrow scintigraphy of breast and prostate skeletal metastases. Limouris GS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1615–8

Prediction of tumor absorbed dose by Tc–99m–MDP scintigraphy prior to treatment with Sr–89. Manetou A, et al. **Anticancer Res** 1997 May–Jun;17(3B):1845–7

Comparison of bone scanning and CA 15–3 serum concentration in the follow–up of breast cancer. Montravers F, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1683–6

Disappearance of Ewing's sarcoma following bacterial infection: a case report. Mori Y, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1391–7

Three–dimensional type I collagen gel system containing MG–63 osteoblasts–like cells as a model for studying local bone reaction caused by metastatic cancer cells. Sourla A, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2773–80

A model for osseous metastasis of human breast cancer established by intrafemur injection of the MDA–MB–435 cells in nude mice. Wang CY, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2471–4

Musculoskeletal pain as an indicator of occult malignancy. Yield of bone scintigraphy. Jacobson AF. **Arch Intern Med** 1997 Jan 13;157(1):105–9

Prediction of pathological subtrochanteric fractures due to metastatic lesions. Dijkstra PD, et al. **Arch Orthop Trauma Surg** 1997;116(4):221–4

Use of adriamycin–impregnated methylmethacrylate in the treatment of tumor metastases in the long bones. Katagiri H, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):329–33

Malignant secondary deposit in the iliac crest masquerading as meralgia paresthetica. Tharion G, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):1010–1

Bone changes in tuberous sclerosis mimicking metastases. Pui MH, et al. **Australas Radiol** 1996 Feb;40(1):77–9

Expression, subcellular distribution and plasma membrane binding of cathepsin B and gelatinases in bone metastatic tissue. Arkona C, et al. **Biol Chem** 1996 Nov; 377(11):695–702

Clodronate decreases the frequency of skeletal metastases in women with breast cancer. Kanis JA, et al. **Bone** 1996 Dec; 19(6):663–7

Usefulness of bone metabolic markers in the diagnosis and follow–up of bone metastasis from lung cancer. Aruga A, et al. **Br J Cancer** 1997;76(6):760–4

Comparative evaluation of markers of bone resorption in patients with breast cancer–induced osteolysis before and after bisphosphonate therapy. Body JJ, et al. **Br J Cancer** 1997;75(3):408–12

Dissociation of bone formation markers in bone metastasis of prostate cancer. Koizumi M, et al. **Br J Cancer** 1997; 75(11):1601–4

Concomitant i.v. and oral clodronate in the relief of bone pain––a double–blind placebo–controlled study in patients with prostate cancer. Kylmälä T, et al. **Br J Cancer** 1997; 76(7):939–42

Zoledronate. Delmas PD. **Br J Clin Pract Symp Suppl** 1996 Sep;87:15 discussion 22

Pamidronate in the treatment of bone metastases––the European experience. Ford JF. **Br J Clin Pract Symp Suppl** 1996 Sep;87:3–4; discussion 13–4

Pamidronate (Aredia) and zoledronate: update on clinical results. Introduction. Lipton A, et al. **Br J Clin Pract Symp Suppl** 1996 Sep;87:1

Zoledronate in the treatment of osteolytic bone metastases. Lipton A. **Br J Clin Pract Symp Suppl** 1996 Sep;87:21; discussion 22

Pamidronate in the treatment of osteolytic bone metastases in breast cancer patients. Theriault R. **Br J Clin Pract Symp Suppl** 1996 Sep;87:8–12; discussion 13–4

Metastatic bone disease and the role of bisphosphonates. Ellis MJ. **Br J Hosp Med** 1996 Oct 2–15;56(7):339–45 (47 ref.)

Short communication: the value of embolization therapy in painful osseous metastases from hepatocellular carcinomas; comparative study with radiation therapy. Murakami R, et al. **Br J Radiol** 1996 Nov;69(827):1042–4

Serum PICP as a bone formation marker in 89Sr and external beam radiotherapy of prostatic bony metastases. Papatheofanis FJ. **Br J Radiol** 1997 Jun;70(834):594–8

Magnetic resonance imaging of bone metastases: a diagnostic and screening technique. Downey SE, et al. **Br J Surg** 1997 Aug;84(8):1093–4

The significance of serum alkaline phosphatase bone isoenzyme in prostatic carcinoma with bony metastasis. Chen SS, et al. **Br J Urol** 1997 Feb;79(2):217–20

The proportional decrease in prostate specific antigen level best predicts the duration of survival after hormonal therapy in patients with metastatic carcinoma of the prostate. Evans CP, et al. **Br J Urol** 1996 Sep;78(3):426–31

Which patients with prostatic carcinoma require a staging bone scan? Kemp PM, et al. **Br J Urol** 1997 Apr;79(4):611–4

Serum pyridinoline crosslinks as markers of tumour–induced bone resorption. Nemoto R, et al. **Br J Urol** 1997 Aug; 80(2):274–80

Expression of bone matrix proteins in human breast cancer: potential roles in microcalcification formation and in the genesis of bone metastases. Bellahcène A, et al. **Bull Cancer** 1997 Jan;84(1):17–24 (60 ref.)

Clinical trials in metastatic breast cancer to bone: past––present––future. Body JJ. **Can J Oncol** 1995 Dec;5 Suppl 1:16–27 (95 ref.)

Clinically available evaluation of bone disease in breast cancer––validity and cost effectiveness. Coleman RE. **Can J Oncol** 1995 Dec;5 Suppl 1:69–79 (47 ref.)

Autologous transplantation for patients with advanced breast cancer with emphasis on bony metastasis. Glück S. **Can J Oncol** 1995 Dec;5 Suppl 1:58–62

The role of palliative radiotherapy for bone metastases. Kirkbride P, et al. **Can J Oncol** 1996 Feb;6 Suppl 1:33–8 (27 ref.)

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:33–9 (31 ref.)

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Jul;5(2):369–75 (31 ref.)

Role of bisphosphonates in prevention and treatment of bone metastases from breast cancer. Paterson AH, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:54–7

Positive selection and ex vivo expansion of hematopoietic progenitors as autografts for high–dose chemotherapy, potential importance in patients with bone metastases. Purdy MH. **Can J Oncol** 1995 Dec;5 Suppl 1:63–8

Prognostic factors and surgical treatment of osseous metastases secondary to renal cell carcinoma. Althausen P, et al. **Cancer** 1997 Sep 15;80(6):1103–9

Prostate carcinoma staging. Clinical utility of bone alkaline phosphatase in addition to prostate specific antigen. Morote J, et al. **Cancer** 1996 Dec 1;78(11):2374–8

Intertrabecular pattern of tumors metastatic to bone. Yamaguchi T, et al. **Cancer** 1996 Oct 1;78(7):1388–94

Use of bisphosphonates in cancer patients. Body JJ, et al. **Cancer Treat Rev** 1996 Jul;22(4):265–87 (97 ref.)

Effects of bone metastases on bone metabolism: implications for diagnosis, imaging and assessment of response to cancer treatment. Vinholes J, et al. **Cancer Treat Rev** 1996 Jul; 22(4):289–331 (248 ref.)

New and traditional serum markers of bone metabolism in the detection of skeletal metastases. Plebani M, et al. **Clin Biochem** 1996 Feb;29(1):67–72

Utility of CA 15–3 and CEA in monitoring breast cancer patients with bone metastases: special emphasis on "spiking" phenomena. Yasasever V, et al. **Clin Biochem** 1997 Feb; 30(1):53–6

Serum concentration of the pyridinoline crosslinked carboxyterminal telopeptide of type I collagen and urinary concentration of deoxypyridinoline as markers of bone metastases in human prostate carcinoma [letter] Yoshida K, et al. **Clin Chim Acta** 1996 Oct 15;254(1):93–5

Transforming growth factor beta upregulates the integrin–mediated adhesion of human prostatic carcinoma cells to type I collagen. Kostenuik PJ, et al. **Clin Exp Metastasis** 1997 Jan;15(1):41–52

Glucocorticoid receptor function possibly modulates cell–cell interactions in osteoblastic metastases on rat skeleton. Reyes–Moreno C, et al. **Clin Exp Metastasis** 1997 May; 15(3):205–17

Human breast cancer cell metastasis to long bone and soft organs of nude mice: a quantitative assay. Sung V, et al. **Clin Exp Metastasis** 1997 Mar;15(2):173–83

Histopathologic analysis of bone marrow and bone metastasis in murine neuroblastoma. Yoshino K, et al. **Clin Exp Metastasis** 1996 Oct;14(5):459–65

Metastatic thymic carcinoma demonstrated by radionuclide bone scan. Becker CP, et al. **Clin Nucl Med** 1996 Jul; 21(7):583–4

Soft–tissue involvement by adenocarcinoma imaged during bone scintigraphy. Bordy Z, et al. **Clin Nucl Med** 1997 Jul;22(7):508

Improved detection of disseminated pheochromocytoma using post therapy I–131 MIBG scanning. Campbell L, et al. **Clin Nucl Med** 1996 Dec;21(12):960–3

Solitary adenocarcinoma metastasis mimicking sarcomatous degeneration in Paget's disease. Conrad GR, et al. **Clin Nucl Med** 1997 May;22(5):300–2

Carcinoma of the thyroid manifested as hyperthyroidism caused by functional bone metastasis. Ikejiri K, et al. **Clin Nucl Med** 1997 Apr;22(4):227–30

Vascular metastatic lesion in the pelvis mimicking gastrointestinal bleeding. Korkmaz M, et al. **Clin Nucl Med** 1996 Aug;21(8):644–5

Superscan in patients with nasopharyngeal carcinoma. Liu RS, et al. **Clin Nucl Med** 1996 Apr;21(4):302–6

I–123 iodoamphetamine scintigraphic detection of bone metastases from malignant melanoma. Otsuka N, et al. **Clin Nucl Med** 1996 Nov;21(11):847–50

Incidental finding of a urinoma on bone scintigraphy. Tsai SC, et al. **Clin Nucl Med** 1997 Aug;22(8):558–9

Radiotherapy for painful bone metastases: a systematic review. McQuay HJ, et al. **Clin Oncol (R Coll Radiol)** 1997; 9(3):150–4 (24 ref.)

Pyridinium crosslinks in the monitoring of patients with bone metastases from carcinoma of the breast. Walne AJ, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):30–4

Surgical treatment of pathologic hip lesions in patients with metastatic disease. Algan SM, et al. **Clin Orthop** 1996 Nov; (332):223–31

Case report: sacral insufficiency fractures masking malignancy. Peh WC, et al. **Clin Radiol** 1997 Jan;52(1):71–2

Case report: serous atrophy of bone marrow and subcutaneous tissue enhancement associated with recurrent rectal carcinoma: MR appearances. Amano Y, et al. **Comput Med Imaging Graph** 1996 May–Jun;20(3):183–5

Fine–needle aspiration cytology of metastatic small cell carcinoma of the colon: a report of three cases. Silverman JF, et al. **Diagn Cytopathol** 1996 Jul;15(1):54–9

Synovial metastasis: diagnosis by fine–needle aspiration cytologic investigation. Thompson KS, et al. **Diagn Cytopathol** 1996 Nov;15(4):334–7 (18 ref.)

Relief of pain from osseous metastatic lesions [letter; comment] Spencer RP. **Drugs** 1996 Sep;52(3):475. Comment on: Drugs 1996 Mar;51(3):383–98.

Causes and treatment of bone pain of malignant origin [see comments] Thürlimann B, et al. **Drugs** 1996 Mar; 51(3):383–98 (72 ref.). Comment in: Drugs 1996 Sep;52(3):475.

Acutely exacerbated hypertension and increased inflammatory signs due to radiation treatment for metastatic pheochromocytoma. Teno S, et al. **Endocr J** 1996 Oct; 43(5):511–6

The assessment of treatment outcomes in metastatic prostate cancer: changing endpoints. Dawson NA, et al. **Eur J Cancer** 1997 Apr;33(4):560–5 (46 ref.)

Acute effects of pamidronate administration on serum levels of interleukin–6 in advanced solid tumour patients with bone metastases and their possible implications in the immunotherapy of cancer with interleukin–2. Lissoni P, et al. **Eur J Cancer** 1997 Feb;33(2):304–6

Direct osteolysis induced by metastatic murine melanoma cells: role of matrix metalloproteinases. Sanchez–Sweatman OH, et al. **Eur J Cancer** 1997 May;33(6):918–25

Diagnostic value of some biochemical bone markers for the detection of bone metastases in prostate cancer. Westerhuis LW, et al. **Eur J Clin Chem Clin Biochem** 1997 Feb; 35(2):89–94

ACTH–producing carcinoma of the pituitary with haematogenic metastases. Garrão AF, et al. **Eur J Endocrinol** 1997 Aug;137(2):176–80

Rhenium–188 hydroxyethylidene diphosphonate: a new generator–produced radiotherapeutic drug of potential value for the treatment of bone metastases. Lin WY, et al. **Eur J Nucl Med** 1997 Jun;24(6):590–5

Treatment of pathological fractures of the humeral shaft due

to bone metastases: a comparison of intramedullary locking nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6

Multiple operations in patients with bony metastases and a prolonged course of disease. Helwig U. **Eur J Surg Oncol** 1997 Feb;23(1):59–63

Serum levels of the carboxy-terminal propeptide of type I procollagen and the pyridinoline cross-linked carboxy-terminal telopeptide of type I collagen as markers of bone metastases in patients with prostate carcinoma. Hosoya Y, et al. **Eur Urol** 1997;31(2):220–3

Total and regional bone mass in metastatic cancer of the prostate. Rico H, et al. **Eur Urol** 1996;30(1):73–6

A prospective, randomised study to compare goserelin acetate (Zoladex) versus cyproterone acetate (Cyprostat) versus a combination of the two in the treatment of metastatic prostatic carcinoma. Thorpe SC, et al. **Eur Urol** 1996;29(1):47–54

Skeletal alkaline phosphatase in the metastatic workup of patients with prostate cancer. Wolff JM, et al. **Eur Urol** 1996;30(3):302–6

Metastatic lung cancer to ankle synovium: a case report. Koss SD, et al. **Foot Ankle Int** 1996 Jan;17(1):51–3

Different cytogenetic patterns in skeletal breast cancer metastases. Adeyinka A, et al. **Genes Chromosomes Cancer** 1996 May;16(1):72–4

Gestational trophoblastic disease presenting as a large metastasis to the finger. Hetzel DJ, et al. **Gynecol Oncol** 1996 Oct;63(1):123–6

Urethral carcinoma metastatic to bone: a case report and literature review. Mirzayan R, et al. **Gynecol Oncol** 1996 Oct;63(1):127–32 (29 ref.)

Pelvic bone involvement in low-grade endometrial stromal sarcoma with ovarian sex cord-like differentiation [letter] Fukunaga M, et al. **Histopathology** 1996 Oct;29(4):391–3

Malignancy and the skeleton. Mundy GR. **Horm Metab Res** 1997 Mar;29(3):120–7 (56 ref.)

Clinicopathological evaluation of metastatic carcinomas of bone : a retrospective analysis of 114 cases over 10 years. Desai S, et al. **Indian J Pathol Microbiol** 1995 Jan; 38(1):49–54

Stimulation of interleukin-11 production from osteoblast-like cells by transforming growth factor-beta and tumor cell factors. Morinaga Y, et al. **Int J Cancer** 1997 May 2; 71(3):422–8

Immunocytochemical monitoring of micrometastatic disease: reduction of prostate cancer cells in bone marrow by androgen deprivation. Pantel K, et al. **Int J Cancer** 1997 May 16;71(4):521–5

Congenital hemangiopericytoma of the skin. Ferreira CM, et al. **Int J Dermatol** 1997 Jul;36(7):521–3

Bone metastasis in epithelial ovarian carcinoma. Dinh TV, et al. **Int J Gynaecol Obstet** 1996 Feb;52(2):173–6 (10 ref.)

Rapid course radiation therapy vs. more standard treatment: a randomized trial for bone metastases. Niewald M, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1085–9

A phase I/II study to evaluate the effect of fractionated hemibody irradiation in the treatment of osseous metastases--RTOG 88-22. Scarantino CW, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):37–48

Bone-turnover metabolites as clinical markers of bone metastasis in patients with prostatic carcinoma. Takeuchi S, et al. **Int J Urol** 1997 Jul;4(4):368–73

Metastatic tumours of the hand. A case report. Saglike Y, et al. **Int Orthop** 1996;20(2):123–4

Clinical study on prognosis of metastatic prostate cancer based on extent of disease on pretreatment bone scintigraphy. Fuse H, et al. **Int Urol Nephrol** 1995; 27(5):567–74

Correlation between bone scan findings and collagenase activities in patients with breast cancer. Kim CG, et al. **Invest Radiol** 1997 May;32(5):302–5

Synchronous metastatic breast cancer in a husband and wife. Kerin MJ, et al. **Ir J Med Sci** 1996 Jan-Mar;165(1):50

Carcinocythemia. Basu S, et al. **J Assoc Physicians India** 1996 Jul;44(7):502–3

Treatment of metastatic adenocarcinoma of the pelvis and the extremities. Aaron AD. **J Bone Joint Surg Am** 1997 Jun;79(6):917–32 (130 ref.)

Skeletal metastases from soft-tissue sarcomas. Incidence, patterns, and radiological features. Yoshikawa H, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):548–52

Pain caused by bone metastasis in endocrine-therapy-refractory prostate cancer. Akakura K, et al. **J Cancer Res Clin Oncol** 1996;122(10):633–7

Metastasis of chondrosarcoma. Ozaki T, et al. **J Cancer Res Clin Oncol** 1996;122(10):625–8

A giant metastasis from follicular thyroid carcinoma. Caracò C, et al. **J Chemother** 1997 Apr;9(2):159–60

Serum 1,25-dihydroxyvitamin D may be related inversely to disease activity in breast cancer patients with bone metastases. Mawer EB, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):118–22

Resected sigmoid carcinoma with 13-year metastasis-free interval. Sternal recurrence detected by immunoscintigraphy. Vasireddi SS, et al. **J Clin Gastroenterol** 1996 Sep;23(2):128–30

Evidence for a causal role of parathyroid hormone-related protein in the pathogenesis of human breast cancer-mediated osteolysis. Guise TA, et al. **J Clin Invest** 1996 Oct 1;98(7):1544–9

Inhibition of osteolytic bone metastasis of breast cancer by combined treatment with the bisphosphonate ibandronate and tissue inhibitor of the matrix metalloproteinase-2. Yoneda T, et al. **J Clin Invest** 1997 May 15;99(10):2509–17

Delay in progression of bone metastases in breast cancer patients treated with intravenous pamidronate: results from a multinational randomized controlled trial. The Aredia Multinational Cooperative Group. Conte PF, et al. **J Clin Oncol** 1996 Sep;14(9):2552–9

Adenocarcinoma of the lung with metatarsal metastasis. Kemnitz MJ, et al. **J Foot Ankle Surg** 1996 May-Jun; 35(3):210–2

Metastatic tumours of the hand. Report of six additional cases. Castelló JR, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):547–50

Metastases to the hand from carcinoma of the lower alveolus. Viswanathan PN, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):544–6

Images in hepatology. Manifestation of hepatocellular carcinoma as osteolytic acrometastasis. Delsmann BM, et al. **J Hepatol** 1997 May;26(5):1154

Enhanced expression of cathepsin L in metastatic bone tumors. Park IC, et al. **J Korean Med Sci** 1996 Apr; 11(2):144–8

Distant metastases in terminal head and neck cancer patients. Talmi YP, et al. **J Laryngol Otol** 1997 May;111(5):454–8

Pharmacokinetics of samarium-153-EDTMP in disseminated skeletal metastases. Pusuwan P, et al. **J Med Assoc Thai** 1996 Sep;79(9):579–84

Bisphosphonates spearhead new approach to treating bone metastases [news] Bankhead C. **J Natl Cancer Inst** 1997 Jan 15;89(2):115–6

Research on bone metastases quickens its pace [news] Ziegler J. **J Natl Cancer Inst** 1997 Jun 18;89(12):841–3

Transient cranial neuropathy in prostatic cancer with bone metastases after rhenium-186-HEDP treatment. de Klerk JM, et al. **J Nucl Med** 1996 Mar;37(3):465–7

Quantitative bone metastases analysis based on image segmentation. Erdi YE, et al. **J Nucl Med** 1997 Sep; 38(9):1401–6

Tin-117m(4+)DTPA: pharmacokinetics and imaging characteristics in patients with metastatic bone pain. Krishnamurthy GT, et al. **J Nucl Med** 1997 Feb;38(2):230–7

Evaluation of technetium-99m-MIBI scintigraphy in metastatic differentiated thyroid carcinoma. Miyamoto S, et al. **J Nucl Med** 1997 Mar;38(3):352–6

Quantitation of biochemical markers of bone resorption following strontium-89-chloride therapy for metastatic prostatic carcinoma. Papatheofanis FJ. **J Nucl Med** 1997 Aug;38(8):1175–9

Procedure guideline for bone pain treatment: 1.0. Society of Nuclear Medicine. Silberstein E, et al. **J Nucl Med** 1996 May;37(5):881–4

Effects of bisphosphonate (pamidronate) on bone resorption resulting from metastasis of a squamous cell carcinoma: report of an autopsy case and evaluation of bone resorbing activity in an experimental animal model. Hiraga T, et al. **J Oral Maxillofac Surg** 1996 Nov;54(11):1327–33

A randomized, controlled trial of intravenous clodronate in patients with metastatic bone disease and pain. Ernst DS, et al. **J Pain Symptom Manage** 1997 Jun;13(6):319–26

Significant morbidity associated with bone metastases in a patient with breast cancer. Oneschuk D, et al. **J Palliat Care** 1996 Winter;12(4):51–4

Orthopaedic clinical note. Patella metastases: a case report. Buckley SC, et al. **J R Coll Surg Edinb** 1997 Apr; 42(2):122–3

Operative management of impending pathological fractures: a critical analysis of therapy. Van Geffen E, et al. **J Surg Oncol** 1997 Mar;64(3):190–4

Correlation between bone metabolic markers and bone scan in prostatic cancer. Maeda H, et al. **J Urol** 1997 Feb; 157(2):539–43

Urinary pyridinoline and deoxypyridinoline as potential markers of bone metastasis in patients with prostate cancer. Takeuchi S, et al. **J Urol** 1996 Nov;156(5):1691–5

Embolization of bone metastases. Barton PP, et al. **J Vasc Interv Radiol** 1996 Jan-Feb;7(1):81–8

Sequential changes of urinary pyridinoline and deoxypyridinoline as markers of metastatic bone tumor in patients with prostate cancer: a preliminary study. Samma S, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):26–30

The role of radiation therapy in the management of bone metastases. Triedman SA, et al. **Med Health R I** 1996 Apr; 79(4):135–8 (20 ref.)

Samarium-153 lexidronam for painful bone metastases. **Med Lett Drugs Ther** 1997 Aug 29;39(1008):83–4

Utility of bisphosphonates in treating bone metastases. Merlini G, et al. **Med Oncol** 1996 Dec;13(4):215–21 (40 ref.)

Bisphosphonates in the treatment of bone diseases [editorial; comment] Delmas PD. **N Engl J Med** 1996 Dec 12; 335(24):1836–7. Comment on: N Engl J Med 1996 Dec 12;335(24):1785–91.

Efficacy of pamidronate in reducing skeletal complications in patients with breast cancer and lytic bone metastases. Protocol 19 Aredia Breast Cancer Study Group [see comments] Hortobagyi GN, et al. **N Engl J Med** 1996 Dec 12;335(24):1785–91. Comment in: N Engl J Med 1996 Dec 12;335(24):1836–7. Comment in: N Engl J Med 1997 May 29;336(22):1609; discussion 1610. Comment in: N Engl J Med 1997 May 29;336(22):1609–10; discussion 1610.

Pamidronate and metastatic breast cancer [letter; comment] Kao G. **N Engl J Med** 1997 May 29;336(22):1609; discussion 1610. Comment on: N Engl J Med 1996 Dec 12;335(24):1785–91.

Pamidronate and metastatic breast cancer [letter; comment] Rubiales AS, et al. **N Engl J Med** 1997 May 29; 336(22):1609–10; discussion 1610. Comment on: N Engl J Med 1996 Dec 12;335(24):1785–91.

Breast cancer and osteolytic metastases: can bisphosphonates help? [news] Siris ES. **Nat Med** 1997 Feb;3(2):151–2

Accidental intrathecal injection of ionic water-soluble contrast medium: report of a case, including treatment. Salvolini U, et al. **Neuroradiology** 1996 May;38(4):349–51

Detection of bony metastases of androgen-independent prostate cancer by PET-FDG. Yeh SD, et al. **Nucl Med Biol** 1996 Aug;23(6):693–7

Clinical evaluation of the bone marrow imaging agent 99Tcm-phytate in the detection of bone metastases. Chang CP, et al. **Nucl Med Commun** 1996 Dec;17(12):1030–4

Radiation dose estimates of 186Re-hydroxyethylidene diphosphonate for palliation of metastatic osseous lesions: an animal model study. van Aswegen A, et al. **Nucl Med Commun** 1997 Jun;18(6):582–8

Panhypopituitarism as a consequence of metastase of breast cancer in sella turcica. Ruiz Hernández G, et al. **Nuklearmedizin** 1996 Aug;35(4):143–5

Workup for metastatic retinoblastoma. A review of 261 patients. Karcioglu ZA, et al. **Ophthalmology** 1997 Feb; 104(2):307–12

Is it cancer or not? Johnson MJ, et al. **Palliat Med** 1997 May; 11(3):245–8

Late bone metastasis from an encapsulated follicular carcinoma of the thyroid without capsular and vascular invasion. Mizukami Y, et al. **Pathol Int** 1996 Jun; 46(6):457–61

Malignancy metastatic to the products of conception: a case report with literature review. Ackerman J, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug;17(4):577–86 (71 ref.)

Adenocarcinoma of minor salivary gland origin with skeletal metastasis in a child. McDermott M, et al. **Pediatr Pathol Lab Med** 1996 Jan-Feb;16(1):89–98

Occult trauma mimicking metastases on bone scans in pediatric oncology patients. Lowry PA, et al. **Pediatr Radiol** 1997 Feb;27(2):114–8

Cancer therapy using bone-seeking isotopes. Lewington VJ. **Phys Med Biol** 1996 Oct;41(10):2027–42 (78 ref.)

Influence of immediate post-therapy bone scintigraphy in the assessment of response to therapy in a case of nasopharyngeal carcinoma. Kostakoglu L, et al. **Radiat Med** 1996 Sep-Oct;14(5):279–81

A case report of adenoid cystic carcinoma of the nasopharynx with aggressive systemic bone metastases. Takahashi T, et al. **Radiat Med** 1995 Nov-Dec;13(6):301–3

Symptomatic relief for patients with osseous metastasis treated with radiation and methylprednisolone: a prospective randomized study. Teshima T, et al. **Radiat Med** 1996 Jul-Aug;14(4):185–8

Can bone scintigraphy detect additional metastatic sites unrevealed by CT in patients with recurrent ovarian carcinoma? Uysal U, et al. **Radiat Med** 1997 Jan-Feb; 15(1):55–8

US case of the day. Skeletal metastasis from poorly differentiated carcinoma of unknown origin. Cooke KS, et al. **Radiographics** 1997 Mar-Apr;17(2):542–4

Dose response relationship and multiple dose efficacy and toxicity of samarium-153-EDTMP in metastatic cancer to bone. Alberts AS, et al. **Radiother Oncol** 1997 May; 43(2):175–9

Radiation therapy of bone metastases in the elderly: a multicentric survey of the Italian "Geriatric Radiation Oncology Group". Mandoliti G, et al. **Rays** 1997 Jan-Mar; 22(1 Suppl):57–60

Role of parathyroid hormone-related peptide in hypercalcemia of malignancy and the development of osteolytic metastases. de Vernejoul MC. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):119S–123S (36 ref.)

Heel pain as the inaugural manifestation of metastatic prostate cancer [letter] Gisserot O, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):870–1 (8 ref.)

Unsealed source therapy of painful bone metastases: an update. McEwan AJ. **Semin Nucl Med** 1997 Apr; 27(2):165–82 (127 ref.)

Metastatic prostate cancer: assessment of response to systemic therapy. Dreicer R. **Semin Urol Oncol** 1997 Feb;15(1):28–32 (36 ref.)

Osteoblastic metastases from breast carcinoma with false-negative bone scan. Munk PL, et al. **Skeletal Radiol** 1997 Jul;26(7):434–7

Resistance to gonadotropin-releasing hormone agonist in a patient with metastatic prostate cancer [letter] Krongrad A, et al. **South Med J** 1997 Apr;90(4):460–1

Systemic radionuclide therapy with strontium chloride Sr 89 for painful skeletal metastases in prostate and breast cancer. Patel BR, et al. **South Med J** 1997 May;90(5):506–8

Long-term subcutaneous infusion of midazolam for refractory delirium in terminal breast cancer. Ramani S, et al. **South Med J** 1996 Nov;89(11):1101–3 (12 ref.)

Should bisphosphonates be standard therapy for bone pain? Paterson AH. **Support Care Cancer** 1997 May;5(3):200–4 (21 ref.)

Pontine glioma with osteoblastic skeletal metastases in a

child. Yanagawa Y, et al. **Surg Neurol** 1996 Nov; 46(5):481–4 (15 ref.)

Therapeutic efficacy of pamidronate in combination with chemotherapy to bone metastasis of breast cancer in a rat model. Tamura H, et al. **Surg Oncol** 1996 Jun;5(3):141–7

Sarcomatoid renal cell carcinoma with widespread metastases to liver and bones in a kidney transplant recipient. Katai M, et al. **Transplantation** 1997 May 15;63(9):1361–3

Palliative therapy with rhenium–186–HEDP for bone metastases of breast cancer. Guerra UP, et al. **Tumori** 1997 Mar–Apr;83(2):560–2

Experience with 89–strontium treatment of painful osseous metastases from breast cancer. Pizzocaro C, et al. **Tumori** 1997 Mar–Apr;83(2):558–9

Rhenium–186 hydroxyethylidene diphosphonate for treatment of painful osseous metastases from mammary carcinoma. Virotta G, et al. **Tumori** 1997 Mar–Apr; 83(2):563–5

Serum markers of bone metastases in postmenopausal breast cancer patients treated with formestane. Martinetti A, et al. **Tumour Biol** 1997;18(4):197–205

Aggressive bone metastases in urachal carcinoma. Mohanti HK, et al. **Urol Int** 1996;57(2):132–4

A transient increase in serum procollagen 1 carboxyterminal peptide following effective treatment in prostate cancer patients with bone metastases. Nakashima J, et al. **Urol Int** 1997;58(4):236–8

Skeletal alkaline phosphatase: a marker for individual follow–up in patients with advanced prostatic cancer. Wechsel HW, et al. **Urol Int** 1997;58(2):80–3

Prostate–specific antigen as a marker of bone metastasis in patients with prostate cancer. Wolff JM, et al. **Urol Int** 1996;56(3):169–73

Combined hormono/chemotherapy as primary treatment for metastatic prostate cancer: a randomized, multicenter study of orchiectomy alone versus orchiectomy plus estramustine phosphate. The Dutch Estracyt Study Group. Janknegt RA, et al. **Urology** 1997 Mar;49(3):411–20

Association of radionuclide bone scan and serum alkaline phosphatase in patients with metastatic renal cell carcinoma. Seaman E, et al. **Urology** 1996 Nov;48(5):692–5

[Malignant bone pain] Thomsen CB, et al. **Ugeskr Laeger** 1997 Apr 14;159(16):2364–9 (40 ref.) (Eng. Abstr.) **(Dan)**

[Hot spots: metastases or osteoporosis?] Daemen HM, et al. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):977–80 (Eng. Abstr.) **(Dut)**

[Metastasis of an adenocarcinoma of the colon to the 1st metacarpal bone] Méndez López JM, et al. **Ann Chir Main Memb Super** 1997;16(2):134–7 (8 ref.) (Eng. Abstr.) **(Fre)**

[Vertebroplasty and percutaneous interventional radiology in bone metastases: techniques, indications, contra–indications] Deramond H, et al. **Bull Cancer Radiother** 1996;83(4):277–82 **(Fre)**

[Treatment of bone metastases] Kantor G, et al. **Bull Cancer Radiother** 1996;83(4):275–6 **(Fre)**

[Radiotherapy of bone metastases. A review of the literature] Simon JM. **Bull Cancer Radiother** 1996;83(4):290–8 (67 ref.) **(Fre)**

[Medical treatment of bone metastases] Tubiana–Hulin M. **Bull Cancer Radiother** 1996;83(4):299–304 **(Fre)**

[Surgery of bone metastases. Techniques and indications] Vital JM, et al. **Bull Cancer Radiother** 1996;83(4):283–9 **(Fre)**

[Bisphosphonates in the treatment concept of metastatic breast carcinoma] Possinger K, et al. **Geburtshilfe Frauenheilkd** 1996 Jul;56(7):M91–4 (16 ref.) **(Ger)**

[A rare case of metastasis of urinary bladder carcinoma in the pisiform bone. A case report] Bauer P, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):154–7 (Eng. Abstr.) **(Ger)**

[Bone metastasis of bronchial carcinoma to the wrist. Case report] Königsberger H, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):46–9 (Eng. Abstr.) **(Ger)**

[Misinterpretation of a solitary breast carcinoma metastasis of the hand as an enchondroma. Case report and literature review] Witthaut J, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):271–7 (32 ref.) (Eng. Abstr.) **(Ger)**

[Can biphosphonates help in osteolytic metastases?] Werner JA. **HNO** 1997 Jun;45(6):419–21 **(Ger)**

[A 63–year–old otherwise healthy patient with bone metastatic prostate carcinoma of one year duration, with osteolytic metastasis to the left os pubis, os ischii and acetabulum] **Internist (Berl)** 1996 May;37(5):521–3 **(Ger)**

[Surgery of bone metastases in advanced age?] Grabbe F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:925–7 (Eng. Abstr.) **(Ger)**

[Follow up control of stage IV neuroblastoma: 123I–MIBG scintigraphy, bone scintigraphy and catecholamine metabolites (published erratum appears in Nuklearmedizin 1997 Jan;36(1):60)] Kohnert K, et al. **Nuklearmedizin** 1996 Dec;35(6):220–4 (Eng. Abstr.) **(Ger)**

[Pain therapy with rhenium–186 HEDP in multiple bone metastases] Palmedo H, et al. **Nuklearmedizin** 1996 Apr; 35(2):63–7 (Eng. Abstr.) **(Ger)**

[Bisphosphonates in radiotherapy] **Radiologe** 1997 Jan;37(1 Suppl):1–4 **(Ger)**

[Metastasis to the sternum or parasternal recurrence of breast carcinoma? Value of sonography] Mende U, et al. **Radiologe** 1996 Jan;36(1):22–30 (Eng. Abstr.) **(Ger)**

[Bone metastasis in breast carcinoma] Kölbl O, et al. **Zentralbl Chir** 1997;122(2):97–102 (Eng. Abstr.) **(Ger)**

[Surgical management of bone metastases of the lower extremity with AO interlocking nail] Krawzak HW, et al. **Zentralbl Chir** 1996;121(11):994–8; discussion 999 (Eng. Abstr.) **(Ger)**

[Bisphosphonates in anti–osteolytic therapy of metastasizing breast carcinoma] Diel IJ, et al. **Zentralbl Gynakol** 1996; 118(10):582–6 (20 ref.) (Eng. Abstr.) **(Ger)**

[A case of breast cancer metastasis to the skin and bone 13 years after, and to the brain 17 years after mastectomy] Itoshima T, et al. **Gan To Kagaku Ryoho** 1997 Aug; 24(10):1331–3 (Eng. Abstr.) **(Jpn)**

[Home terminal care for lung cancer––subcutaneous injection with morphine hydrochloride for cancer related pain from metastatic bone cancer in a terminal lung cancer patient] Nomura Y, et al. **Gan To Kagaku Ryoho** 1996 Dec;23 Suppl 3:285–7 (Eng. Abstr.) **(Jpn)**

[Bone metastases responsive to pamidronate therapy in breast cancer] Oura S, et al. **Gan To Kagaku Ryoho** 1997 May; 24(7):865–8 (Eng. Abstr.) **(Jpn)**

[Diagnosis and treatment of metastatic bone cancer] Tateishi A. **Gan To Kagaku Ryoho** 1996 Sep;23(10):1262–8 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Treatment of pathological fractures caused by metastatic bone cancer] Tateishi A, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):285–91 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Effect of pamidronate and interferon–alpha on bone and lung metastases and hypercalcemia in a patient with renal cell carcinoma] Kise H, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):879–81 (Eng. Abstr.) **(Jpn)**

[Effectiveness of the radioactive strontium (89Sr) chloride agent, SMS.2P for pain palliation in patients with metastatic bone tumor in phase III multicenter clinical trial] Kimura Y, et al. **Kaku Igaku** 1996 Dec;33(12):1347–58 (Eng. Abstr.) **(Jpn)**

[89Sr Therapy for pain relief in patients with bone metastases] Koizumi K, et al. **Kaku Igaku** 1996 Nov;33(11):1243–8 (Eng. Abstr.) **(Jpn)**

[Serum concentration of pyridinoline cross–linked carboxy–terminal telopeptide of type–I collagen (ICTP) and carboxyterminal propeptide of human type I procollagen (PICP) in the diagnosis of bone metastases] Koizumi M, et al. **Kaku Igaku** 1996 Jan;33(1):77–84 (Eng. Abstr.) **(Jpn)**

[Imaging of strontium–89 uptake with bremsstrahlung using NaI scintillation camera] Narita H, et al. **Kaku Igaku** 1996 Nov;33(11):1207–12 (Eng. Abstr.) **(Jpn)**

[Studies on alpha 2 macroglobulin deficiency in association with cancer metastasis] Kanoh Y, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Feb;20(1):30–43 (Eng. Abstr.) **(Jpn)**

[Usefulness of 99mTc–MIBI SPECT in the metastatic lesions of thyroid cancer] Kobayashi M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb; 57(3):127–32 (Eng. Abstr.) **(Jpn)**

[A case of solitary sternal metastasis from unknown primary hepatocellular carcinoma] Horita K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):959–64 (Eng. Abstr.) **(Jpn)**

[Case of malignant pheochromocytoma with successful control of systemic metastasis with CVD chemotherapy] Minami T, et al. **Nippon Naika Gakkai Zasshi** 1996 Dec 10;85(12):2078–80 (10 ref.) **(Jpn)**

[Role of radiation therapy for osseous metastasis] Watari T. **Nippon Seikeigeka Gakkai Zasshi** 1996 Oct;70(10):659–72 (29 ref.) **(Jpn)**

[Massive hemorrhage from a gastric neuroma associated with a kidney neoplasm] Lukasiewicz S, et al. **Wiad Lek** 1996; 49(7–12):124–6 (Eng. Abstr.) **(Pol)**

[Complete remission of endobronchial, parenchymal and hilar lymphatic lung metastases of prostatic carcinoma after anti–androgenic hormotherapy] Morrone N, et al. **Rev Assoc Med Bras** 1996 Jan–Mar;42(1):57–60 (Eng. Abstr.) **(Por)**

[The diagnosis and treatment of bladder cancer metastases] Kariakin OB, et al. **Urol Nefrol (Mosk)** 1997 Mar–Apr; (2):22–5 (Eng. Abstr.) **(Rus)**

[Primary multiple metachronous cancer of the larynx and lung with metastasis to the radius] Klochikin AL, et al. **Vestn Otorinolaringol** 1996 Jul–Aug;(4):51–2 **(Rus)**

[To radiation diagnosis of renal cancer with solitary metastasis into bone system] Chekunova EV, et al. **Vestn Rentgenol Radiol** 1997 Jan–Feb;(1):35–8 (18 ref.) **(Rus)**

[A case of peripheral cancer of the lung] Shlenova LA. **Vestn Rentgenol Radiol** 1997 Mar–Apr;(2):39–40 **(Rus)**

[Multiple bone metastasis and bone marrow invasion as an initial manifestation of a medullary thyroid carcinoma (letter)] Guerra Laso JM, et al. **An Med Interna** 1997 May; 14(5):263–4 **(Spa)**

[Epidermoid carcinoma with extensive bone metastasis and normal scintigraphy (letter)] Haro M, et al. **Arch Bronconeumol** 1997 Mar;33(3):158 **(Spa)**

[Correlation between specific prostatic antigen and findings with total body bone scintigraphy] López M, et al. **Arch Esp Urol** 1996 Nov;49(9):953–5 (Eng. Abstr.) **(Spa)**

[Nationally produced 153SmEDTMP in the palliative treatment of metastatic bone cancer pain] Olea E, et al. **Rev Med Chil** 1996 Jul;124(7):805–12 (Eng. Abstr.) **(Spa)**

SECRETION

Gastric uptake during Re–186 HEDP bone scintigraphy. Limouris GS, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1779–81

SURGERY

Massive autoclaved allografts and autografts for limb salvage surgery. A 1–8 year follow–up of 23 patients. Asada N, et al. **Acta Orthop Scand** 1997 Aug;68(4):392–5

Malignant bone and soft tissue tumors of the shoulder girdle. A retrospective analysis of 30 operated cases. Meller I, et al. **Acta Orthop Scand** 1997 Aug;68(4):374–80

Intramedullary, antibiotic–loaded cemented, massive allografts for skeletal reconstruction. 26 cases compared with 19 uncemented allografts. Ozaki T, et al. **Acta Orthop Scand** 1997 Aug;68(4):387–91

Reconstruction of tibia by ipsilateral vascularized fibula and allograft. 12 cases with malignant bone tumors. Ozaki T, et al. **Acta Orthop Scand** 1997 Jun;68(3):298–301

Secondary chondrosarcoma in osteochondromas. Medullary extension in 15 of 45 cases. Wuisman PI, et al. **Acta Orthop Scand** 1997 Aug;68(4):396–400

The role of allografts in tumour surgery. Choong PF. **Acta Orthop Scand Suppl** 1997 Feb;273:89–94

The role of prostheses after resection of primary sarcomas of bone. Morris H. **Acta Orthop Scand Suppl** 1997 Feb; 273:86–8

Microsurgery––its role in soft tissue and bone tumour reconstruction. Rostek M, et al. **Acta Orthop Scand Suppl** 1997 Feb;273:95–100 (50 ref.)

Treatment of frontal sinus osteoma using a craniofacial approach. Chang SC, et al. **Ann Plast Surg** 1997 May; 38(5):455–9

Adjuvant therapy: the effects on microvascular lower extremity reconstruction. Evans GR, et al. **Ann Plast Surg** 1997 Aug;39(2):141–4

Compound rib–latissimus dorsi osteomusculocutaneous flap in reconstruction of the upper arm. Onishi K, et al. **Ann Plast Surg** 1996 Aug;37(2):191–4

Distal upper extremity function following proximal humeral resection and reconstruction for tumors: contralateral comparison. Damron TA, et al. **Ann Surg Oncol** 1997 Apr–May;4(3):237–46

Internal hemipelvectomy and endoprosthetic pelvic replacement: long–term follow–up results. Bruns J, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):27–31

Use of adriamycin–impregnated methylmethacrylate in the treatment of tumor metastases in the long bones. Katagiri H, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):329–33

Vascular reconstruction for limb salvage in sarcoma of the lower extremity. Koperna T, et al. **Arch Surg** 1996 Oct; 131(10):1103–7; discussion 1108

Modular prostheses in metastatic bone disease of the proximal femur. Camnasio F, et al. **Bull Hosp Jt Dis** 1996;54(4):211–4

Titanium implant for the osteosynthesis of massive allograft reconstruction to improve follow–up by magnetic resonance imaging. Exner GU, et al. **Bull Hosp Jt Dis** 1996; 54(3):140–5

Limb–salvage strategies to optimize quality of life: the M.D. Anderson Cancer Center experience. Yasko AW, et al. **CA Cancer J Clin** 1997 Jul–Aug;47(4):226–38

Prognostic factors and surgical treatment of osseous metastases secondary to renal cell carcinoma. Althausen P, et al. **Cancer** 1997 Sep 15;80(6):1103–9

Treatment of giant cell tumor of long bone. Shih HN, et al. **Chang Keng I Hsueh** 1996 Mar;19(1):16–23

Reconstruction by Grosse–Kempf nailing in resections for bone tumor. Tigani D, et al. **Chir Organi Mov** 1996 Jan–Mar;81(1):31–41 **(Eng, Ita)**

Giant–cell tumor of bone around the knee. Fong YC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Apr;59(4):240–7

Primary patellar tumors. Ferguson PC, et al. **Clin Orthop** 1997 Mar;(336):199–204

Osteoid osteoma of the hip. Percutaneous resection guided by computed tomography [letter; comment] Kohler R. **Clin Orthop** 1996 Apr;(325):326. Comment on: Clin Orthop 1995 Jan;(310):170–5.

Chondrosarcoma of the pelvis. Ozaki T, et al. **Clin Orthop** 1997 Apr;(337):226–39

Limb salvage in periacetabular sarcomas: review of 21 consecutive cases. Windhager R, et al. **Clin Orthop** 1996 Oct;(331):265–76 (33 ref.)

Stride analysis after proximal tibial replacement. Zohman GL, et al. **Clin Orthop** 1997 Jun;(339):180–4

The art of limb salvage in musculoskeletal oncology. Veth RP, et al. **Crit Rev Oncol Hematol** 1995 Nov;21(1–3):77–103 (235 ref.)

Desmoid tumor of the sternum presenting as an anterior mediastinal mass. Saw E, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):384–6

Osteosarcoma of the sternum. Douglas YL, et al. **Eur J Surg Oncol** 1997 Feb;23(1):90–1

Multiple operations in patients with bony metastases and a prolonged course of disease. Helwig U. **Eur J Surg Oncol** 1997 Feb;23(1):59–63

Extralesional resection for tumours of the pelvic bones. Makhson A. **Int Orthop** 1997;21(1):41–5

Resection arthrodesis of the knee in the treatment of

tumours--a long-term follow-up. Salai M, et al. **Int Orthop** 1997;21(2):101-3

A pelvic osteosarcoma with metastasis to the donor site of the bone graft. A case report. Yip KM, et al. **Int Orthop** 1996;20(6):389-91

An acrylic Judet hip prosthesis in a shoulder hemiarthroplasty for thirty-nine years--a case report. Zamudio L, et al. **Int Orthop** 1997;21(2):91-2

Surgery for locally aggressive bone tumours. Devitt A, et al. **Ir J Med Sci** 1996 Oct-Dec;165(4):278-81

Arthrodesis of the knee with a modular titanium intramedullary nail. Arroyo JS, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):26-35

En bloc resection of tumors of the distal end of the ulna. Cooney WP, et al. **J Bone Joint Surg Am** 1997 Mar; 79(3):406-12

Limb salvage for neoplasms of the shoulder girdle. Intermediate reconstructive and functional results. O'Connor MI, et al. **J Bone Joint Surg Am** 1996 Dec; 78(12):1872-88

The results of transplantation of intercalary allografts after resection of tumors. A long-term follow-up study. Ortiz-Cruz E, et al. **J Bone Joint Surg Am** 1997 Jan; 79(1):97-106

Growth of the proximal fibular physis and remodeling of the epiphysis after microvascular transfer. A case report. Shea KG, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):583-6

Enchondroma of the distal phalanx of the hand. Shimizu K, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):898-900

Massive prostheses for malignant bone tumours of the limbs. Cannon SR. **J Bone Joint Surg Br** 1997 May;79(3):497-506 (20 ref.)

The cost-effectiveness of limb salvage for bone tumours. Grimer RJ, et al. **J Bone Joint Surg Br** 1997 Jul; 79(4):558-61

Free vascularised fibular grafting for reconstruction after tumour resection. Hsu RW, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):36-42

Radiological and clinical recurrence of giant-cell tumour of bone after the use of cement. Remedios D, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):26-30

Aseptic loosening in cemented custom-made prosthetic replacements for bone tumours of the lower limb. Unwin PS, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):5-13

Surgical complications after preoperative irradiation of Ewing's sarcoma. Hillmann A, et al. **J Cancer Res Clin Oncol** 1997;123(1):57-62

The impact of intraoperative brachytherapy on surgery of Ewing's sarcoma. Ozaki T, et al. **J Cancer Res Clin Oncol** 1997;123(1):53-6

Bone grafting in the surgical management of osseous neoplasms. Leonheart EE, et al. **J Foot Ankle Surg** 1996 Sep-Oct;35(5):391-5

Chondroblastoma of the talus. Yu GV, et al. **J Foot Ankle Surg** 1996 Jan-Feb;35(1):72-7

Autogenous fibular graft and silicone implant arthroplasty following resection of giant cell tumor of the metacarpal: a report of two cases. Athanasian EA, et al. **J Hand Surg [Am]** 1997 May;22(3):504-7

Giant cell tumors of the bones of the hand. Athanasian EA, et al. **J Hand Surg [Am]** 1997 Jan;22(1):91-8

Osteoblastoma of the scaphoid--long-term results following curettage: a case report. Castelló JR, et al. **J Hand Surg [Am]** 1996 May;21(3):426-7

Solitary osteochondroma of the scaphoid: a case report. van Alphen JC, et al. **J Hand Surg [Am]** 1996 May;21(3):423-5

Enchondroma of the scaphoid. Redfern DR, et al. **J Hand Surg [Br]** 1997 Apr;22(2):235-6

The treatment of enchondromas in the hand by endoscopic curettage without bone grafting. Sekiya I, et al. **J Hand Surg [Br]** 1997 Apr;22(2):230-4

Giant cell tumour of short bones of hand [letter; comment] De C. **J Indian Med Assoc** 1996 Aug;94(8):312. Comment on: J Indian Med Assoc 1995 Apr;93(4):149-50.

Giant cell tumour of the lower end of the radius--a new treatment modality. Mukherjee K, et al. **J Indian Med Assoc** 1996 May;94(5):170-1

Distal fibula resection in osteochondroma. Durak K, et al. **J Int Med Res** 1996 Jul-Aug;24(4):381-6

Thoraco-cervical fibromatosis: treatment of surgical excision. Conlon BJ, et al. **J Laryngol Otol** 1997 Apr;111(4):385-6

Juvenile active ossifying fibroma. Report of four cases. Lawton MT, et al. **J Neurosurg** 1997 Feb;86(2):279-85

Osteoid osteoma of the clavicle. Shaffrey CI, et al. **J Shoulder Elbow Surg** 1997 Jul-Aug;6(4):396-9 (20 ref.)

Monitoring during cryosurgery of bone tumors. Schreuder HW, et al. **J Surg Oncol** 1997 May;65(1):40-5

Sternal resection for primary or secondary tumors. Incarbone M, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):93-9

Prostaglandin E1 inhibits platelet decrease after massive blood transfusions during major surgery: influence on coagulation cascade? Locker GJ, et al. **J Trauma** 1997 Mar; 42(3):525-31

A modular endoprosthetic system for tumor and non-tumor reconstruction: preliminary experience. Freedman EL, et al. **Orthopedics** 1997 Jan;20(1):27-36

Osteoblastoma. Ruggieri P, et al. **Orthopedics** 1996 Jul; 19(7):621-4 (18 ref.)

Limb-sparing procedures: postoperative planar bone scan appearance. Kaste SC, et al. **Pediatr Radiol** 1996 Oct; 26(10):750-3

Vascularized fibular graft for reconstruction of the wrist after excision of giant cell tumor. Ono H, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1086-93

Development of a measure of physical function for patients with bone and soft tissue sarcoma. Davis AM, et al. **Qual Life Res** 1996 Oct;5(5):508-16

Interstitial laser photocoagulation of osteoid osteomas with use of CT guidance. Gangi A, et al. **Radiology** 1997 Jun; 203(3):843-8

Osteoid osteoma: CT-guided percutaneous excision confirmed with immediate follow-up scintigraphy in 16 outpatients. Roger B, et al. **Radiology** 1996 Oct; 201(1):239-42

Limb-sparing surgery for bone tumors: new developments. Choong PF, et al. **Semin Surg Oncol** 1997 Jan-Feb; 13(1):64-9 (52 ref.)

Endoprosthetic replacement following limb-sparing resection for bone sarcoma. Damron TA. **Semin Surg Oncol** 1997 Jan-Feb;13(1):3-10 (35 ref.)

Special problems in limb-salvage surgery. Frassica FJ, et al. **Semin Surg Oncol** 1997 Jan-Feb;13(1):55-63 (44 ref.)

Allograft prosthetic composite replacement for bone tumors. Hejna MJ, et al. **Semin Surg Oncol** 1997 Jan-Feb; 13(1):18-24

Rotationplasty. Kotz R. **Semin Surg Oncol** 1997 Jan-Feb; 13(1):34-40

Malignant pelvic tumors: limb-sparing resection and reconstruction. O'Connor MI. **Semin Surg Oncol** 1997 Jan-Feb;13(1):49-54

Bone cancer and limb-sparing surgery [editorial] Pritchard DJ. **Semin Surg Oncol** 1997 Jan-Feb;13(1):1-2

Arthrodesis after resection of bone tumors. Scarborough MT, et al. **Semin Surg Oncol** 1997 Jan-Feb;13(1):25-33 (31 ref.)

Allograft reconstructions. Springfield DS. **Semin Surg Oncol** 1997 Jan-Feb;13(1):11-7 (28 ref.)

Growing endoprostheses for primary malignant bone tumors. Tillman RM, et al. **Semin Surg Oncol** 1997 Jan-Feb; 13(1):41-8

Resistance to gonadotropin-releasing hormone agonist in a patient with metastatic prostate cancer [letter] Krongrad A, et al. **South Med J** 1997 Apr;90(4):460-1

En bloc resections of bone tumors of the thoracolumbar spine. A preliminary report on 29 patients. Boriani S, et al. **Spine** 1996 Aug 15;21(16):1927-31

Mesenchymal chondrosarcoma of the rib: report of a case. Aoki T, et al. **Surg Today** 1996;26(12):1020-3

Chest wall reconstruction using a titanium hollow screw reconstruction plate. Nomori H, et al. **Thorac Cardiovasc Surg** 1997 Feb;45(1):35-7

[Malignant hemangiopericytoma of the pelvis: treatment using internal hemipelvectomy] Heymans O, et al. **Acta Orthop Belg** 1997 Mar;63(1):40-2 (Eng. Abstr.) **(Fre)**

[Reconstruction of the long bones of the legs in children via free vascularized transplant of the fibula after resection for sarcoma] Germain MA, et al. **Bull Acad Natl Med** 1996 May;180(5):1125-41; discussion 1141-5 (Eng. Abstr.) **(Fre)**

[Surgery of bone metastases. Techniques and indications] Vital JM, et al. **Bull Cancer Radiother** 1996;83(4):283-9 **(Fre)**

[Massive allografts of the pelvis. Possibilities and limitations in oncologic and reconstructive surgery] Langlais F, et al. **Chirurgie** 1996;121(3):215-9 (Eng. Abstr.) **(Fre)**

[Osteoid osteoma of the intramedullary diaphyse in children] Jawish R, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):74-7 (Eng. Abstr.) **(Fre)**

[Clear cell chondrosarcoma. Study of 13 clinical cases and review of the literature] Laporte C, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(8):691-9 (21 ref.) (Eng. Abstr.) **(Fre)**

[Contribution of nidus fluorescence in the surgical treatment of osteoid osteoma. Apropos of 17 cases] Thomazeau H, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(8):737-42 (Eng. Abstr.) **(Fre)**

[Benign tumors of the bones and soft tissues of the mouth area. A report on the annual meeting of the Swiss Association for Oral Surgery and Mouth Diseases 8 March 1997 in Basel] Vauthier T. **Schweiz Monatsschr Zahnmed** 1997;107(6):529-30 **(Fre)**

[Is the elimination of osteosarcoma cells with intraoperative "mesh autotransfusion" and leukocyte depletion filters possible?] Müller M, et al. **Anaesthesist** 1996 Sep; 45(9):834-8 (Eng. Abstr.) **(Ger)**

[Angiosarcoma of the hand. Case report] Baranowski D, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):147-52; discussion 153 (Eng. Abstr.) **(Ger)**

[The calcaneal cyst (editorial; comment)] Tscherne H, et al. **Langenbecks Arch Chir** 1996;381(6):299. Comment on: Langenbecks Arch Chir 1996 ;381(6):300-2. **(Ger)**

[Solitary calcaneal cyst (see comments)] Wallenböck E, et al. **Langenbecks Arch Chir** 1996;381(6):300-2 (Eng. Abstr.) . Comment in: Langenbecks Arch Chir 1996 ;381(6):299. **(Ger)**

[Chondrosarcoma--an easily treatable tumor?] Donow C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:918-20 (Eng. Abstr.) **(Ger)**

[Initial experiences with Winkelmann "clavicula pro humero" operation in malignant bone tumors of the proximal humerus in childhood] Fritz W, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1102-7 (Eng. Abstr.) **(Ger)**

[New developments in surgery of bone tumors] Tscherne H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:80-5 (Eng. Abstr.) **(Ger)**

[Massive allogeneic cortical transplants in therapy of primary and secondary bone tumors] Voggenreiter G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:921-4 (Eng. Abstr.) **(Ger)**

[Primary malignant bone and soft tissue tumors of the pelvis--oncologic and functional outcome] Wirbel RJ, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:914-7 (Eng. Abstr.) **(Ger)**

[Benign tumors of the bones and soft tissues of the mouth area. The annual meeting of the Swiss Association for Oral Surgery and Mouth Diseases, 8 March 1997, Basel] Stäuble F. **Schweiz Monatsschr Zahnmed** 1997;107(8):714-6 **(Ger)**

[Percutaneous therapy of osteoid osteoma] Berning W, et al. **Unfallchirurg** 1997 Jul;100(7):536-40 (Eng. Abstr.) **(Ger)**

[Process and outcome quality in giant cell tumor in relation to surgical management] Pingsmann A, et al. **Unfallchirurg** 1997 Jul;100(7):547-51 (Eng. Abstr.) **(Ger)**

[Malignant bone tumors] Wippermann B, et al. **Unfallchirurg** 1997 Mar;100(3):172-85 (39 ref.) (Eng. Abstr.) **(Ger)**

[A new technique of segmental bone replacement in metastatic osteolysis in long bones] Kundel K. **Unfallchirurgie** 1997 Apr;23(2):69-73 (Eng. Abstr.) **(Ger)**

[Alloplastic bone replacement in resection defects of the long bones] Lembcke O, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep-Oct;134(5):441-4 (Eng. Abstr.) **(Ger)**

[Surgical amputation and prosthetic management in congenital fibrosarcoma of the lower extremity] Zembsch A, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov-Dec; 134(6):517-9 (Eng. Abstr.) **(Ger)**

[A case of giant cell tumor originating in the rib] Iida M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug; 44(8):1141-4 (Eng. Abstr.) **(Jpn)**

[Solitary plasmacytoma of sternum--a case report and review of the Japanese literature] Ohtake Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):717-22 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Current problems in the reconstructive surgery of the locomotor apparatus in children] Kupatadze DD, et al. **Vestn Khir Im I I Grek** 1997;156(2):94-6 (Eng. Abstr.) **(Rus)**

THERAPY

Non-AIDS-related primary intraosseous Kaposi's sarcoma: case report and literature review. Chen HH, et al. **Acta Oncol** 1997;36(2):224-7 (14 ref.)

Palliative treatment of bone metastases. Nielsen OS. **Acta Oncol** 1996;35 Suppl 5:58-60 (16 ref.)

Extremity and non-extremity high-grade osteosarcoma -- the Norwegian Radium Hospital experience during the modern chemotherapy era. Saeter G, et al. **Acta Oncol** 1996;35 Suppl 8:129-34

The Scandinavian--Australian Symposium on the Management of Bone and Soft Tissue Sarcomas. **Acta Orthop Scand Suppl** 1997 Feb;273:1-160

The Scandinavian Sarcoma Group. Background, organization and the Central Registry--the first 17 years. Alvegård TA. **Acta Orthop Scand Suppl** 1997 Feb;273:9-13

Outcomes after multi-modality treatment of musculoskeletal tumours. Marsden FW, et al. **Acta Orthop Scand Suppl** 1997 Feb;273:101-5

Osteosarcoma and pulmonary metastases: 15-year experience from a single institution. Ellis PM, et al. **Aust N Z J Surg** 1997 Sep;67(9):625-9

Preliminary report on treatment of bone tumors with microwave-induced hyperthermia. Fan QY, et al. **Bioelectromagnetics** 1996;17(3):218-22

Myeloablative therapy, stem cell rescue and gene transfer in advanced Ewing tumors. Burdach S, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S67-8

Osteocalcin promoter-based toxic gene therapy for the treatment of osteosarcoma in experimental models. Ko SC, et al. **Cancer Res** 1996 Oct 15;56(20):4614-9

Surgical treatment of bone tumors in conjunction with microwave-induced hyperthermia and adjuvant immunotherapy. A preliminary report. Fan Q, et al. **Chin Med J (Engl)** 1996 Jun;109(6):425-31

Limb salvage in primary malignant bone tumors by intraoperative microwave heat treatment. Lu S, et al. **Chin Med J (Engl)** 1996 Jun;109(6):432-6

Relief of pain from osseous metastatic lesions [letter; comment] Spencer RP. **Drugs** 1996 Sep;52(3):475. Comment on: Drugs 1996 Mar;51(3):383-98.

Hyperthermic isolated limb perfusion with cisplatin in four patients with sarcomas of soft tissue and bone. van Ginkel RJ, et al. **Eur J Surg Oncol** 1996 Oct;22(5):528-31

Cost effective treatment of osteogenic sarcoma of the extremities. Nadkarni KS, et al. **Indian J Cancer** 1995 Jun; 32(2):77-80

Anti-tumour effects of localized hyperthermia on an experimental bone tumour using an intramedullary nail. Akagi M, et al. **Int J Hyperthermia** 1997 Jul-Aug; 13(4):387-400

Thermal effects of acrylic cementation at bone tumour sites. Nelson DA, et al. **Int J Hyperthermia** 1997 May-Jun; 13(3):287-306

The effect of methotrexate-loaded bone cement on local destruction by the VX2 tumour. Wang HM, et al.

J Bone Joint Surg Br 1996 Jan;78(1):14–7

Intra-arterial versus intravenous cisplatinum (in addition to systemic Adriamycin and high dose methotrexate) in the neoadjuvant treatment of osteosarcoma of the extremities. results of a randomized study. Bacci G, et al. **J Chemother** 1996 Feb;8(1):70–81

Second malignancies after Ewing's sarcoma: radiation dose-dependency of secondary sarcomas. Kuttesch JF Jr, et al. **J Clin Oncol** 1996 Oct;14(10):2818–25

Osteosarcoma: a study of 130 cases. Pochanugool L, et al. **J Med Assoc Thai** 1997 Mar;80(3):153–9

Chemotherapeutic induction of long-term remission in metastatic medulloblastoma. Leo E, et al. **J Neurooncol** 1997 Apr;32(2):149–54

Embolization of bone metastases. Barton PP, et al. **J Vasc Interv Radiol** 1996 Jan-Feb;7(1):81–8

Circulating CD34+ cell counts as predictive parameter for the efficacy of peripheral stem cell apheresis in Ewing tumor patients. Engel BC, et al. **Klin Padiatr** 1997 Jul-Aug; 209(4):186–90

Irradiation protection from hypersensitivity [letter] Cowle FJ, et al. **Lancet** 1997 Aug 23;350(9077):566

Sarcoma of bone. Terek RM. **Med Health R I** 1997 Jan; 80(1):19–25 (24 ref.)

Pamidronate and metastatic breast cancer [letter; comment] Kao G. **N Engl J Med** 1997 May 29;336(22):1609; discussion 1610. Comment on: N Engl J Med 1996 Dec 12;335(24):1785–91.

NCCN pediatric osteosarcoma practice guidelines. The National Comprehensive Cancer Network. O'Reilly R, et al. **Oncology (Huntingt)** 1996 Dec;10(12):1799–806, 1812

The Ewing family of tumors. Ewing's sarcoma and primitive neuroectodermal tumors. Grier HE. **Pediatr Clin North Am** 1997 Aug;44(4):991–1004 (84 ref.)

Osteosarcoma. Meyers PA, et al. **Pediatr Clin North Am** 1997 Aug;44(4):973–89 (81 ref.)

Acrylic bone cement injection for the treatment of bone metastases [editorial; comment] Laredo JD, et al. **Rev Rhum Engl Ed** 1997 Mar;64(3):145–6. Comment on: Rev Rhum Engl Ed 1997 Mar;64(3):177–83.

Popliteal artery pseudoaneurysm caused by an osteochondroma--a traditional medicine massage sequelae. Kalinga MJ, et al. **Singapore Med J** 1996 Aug;37(4):443–5 (8 ref.)

Combined hormono/chemotherapy as primary treatment for metastatic prostate cancer: a randomized, multicenter study of orchiectomy alone versus orchiectomy plus estramustine phosphate. The Dutch Estracyt Study Group. Janknegt RA, et al. **Urology** 1997 Mar;49(3):411–20

[Treatment of bone metastases] Kantor G, et al. **Bull Cancer Radiother** 1996;83(4):275–6 **(Fre)**

[Pathologic humeral fracture in secondary osteosarcoma of the humerus: a rare complication of osteodystrophia deformans Paget] Katzer A, et al. **Unfallchirurgie** 1997 Feb; 23(1):18–22 (Eng. Abstr.) **(Ger)**

[Multidisciplinary approach to the treatment of musculo-skeletal tumors] Salai M, et al. **Harefuah** 1997 Apr 15;132(8):532–4, 608 (Eng. Abstr.) **(Heb)**

[Preoperative and postoperative chemotherapy of osteogenic sarcoma of the limbs in children] Muñoz Villa A, et al. **Med Clin (Barc)** 1996 Jun 29;107(5):161–4 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Epidermal nevus syndrome associated with a complex choristoma and a bilateral choroidal osteoma. Mullaney PB, et al. **Arch Ophthalmol** 1996 Oct;114(10):1292–3

Role of transesophageal echocardiography in the management of metastatic tumors invading the left atrium. Lee TM, et al. **Cardiology** 1997 Mar-Apr;88(2):214–7

US case of the day. Skeletal metastasis from poorly differentiated carcinoma of unknown origin. Cooke KS, et al. **Radiographics** 1997 Mar-Apr;17(2):542–4

ULTRASTRUCTURE

Effects of dibutyryl cyclic adenosine monophosphate on nucleolar organizer regions and epidermal growth factor receptor of Dunn osteosarcoma cells. Kanamori M, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):135–9

Integrity of the 1,25-dihydroxyvitamin D3 receptor in bone, lung, and other cancers. Miller CW, et al. **Mol Carcinog** 1997 Aug;19(4):254–7

Histology, immunohistochemistry, and electron microscopy of small round cell tumors of bone. Llombart-Bosch A, et al. **Semin Diagn Pathol** 1996 Aug;13(3):153–70 (147 ref.)

URINE

Urinary pyridinoline and deoxypyridinoline as potential markers of bone metastasis in patients with prostate cancer. Takeuchi S, et al. **J Urol** 1996 Nov;156(5):1691–5

VETERINARY

A lame dog with distal tibial swelling. Wiegand U, et al. **Aust Vet J** 1996 Dec;74(6):428, 439–41

An ethicist's commentary on the case of the bull mastiff with osteosarcoma. Barton F. **Can Vet J** 1997 Sep;38(9):536–7

Effect of timing of postoperative chemotherapy on survival of dogs with osteosarcoma. Berg J, et al. **Cancer** 1997 Apr 1;79(7):1343–50

P53 gene mutations in osteosarcomas in the dog. van Leeuwen IS, et al. **Cancer Lett** 1997 Jan 1;111(1-2):173–8

Primary intraosseous mast cell tumour of the third phalanx in a quarter horse. Ritmeester AM, et al. **Equine Vet J** 1997 Mar;29(2):151–2

Relationship of natural incidence and radiosensitivity for bone cancer in dogs. Taylor GN, et al. **Health Phys** 1997 Oct;73(4):679–83

Tumours of the bone. Pour PM. **IARC Sci Publ** 1996; (126):385–426 (84 ref.)

Skeletal neoplasms of small dogs: a retrospective study and literature review. Cooley DM, et al. **J Am Anim Hosp Assoc** 1997 Jan-Feb;33(1):11–23

Lameness and pleural effusion associated with an aggressive fibrosarcoma in a horse. Jorgensen JS, et al. **J Am Vet Med Assoc** 1997 May 1;210(9):1328–31

Lateral approach for endoscopic removal of solitary osteochondromas from the distal radial metaphysis in three horses. Southwood LL, et al. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1166–8

Amputation and dexniguldipine as treatment for canine appendicular osteosarcoma. Hahn KA, et al. **J Cancer Res Clin Oncol** 1997;123(1):34–8

Osteosarcoma following total hip arthroplasty in a dog. Murphy ST, et al. **J Small Anim Pract** 1997 Jun;38(6):263–7

Intraosseous hemangiosarcoma with metastasis in a three-month-old llama. Hamir AN, et al. **J Vet Diagn Invest** 1997 Apr;9(2):210–3

Multisystem angiotropic lymphoma (malignant angioendotheliomatosis) involving the humerus in a dog. Steinberg H. **J Vet Diagn Invest** 1996 Oct;8(4):502–5

Effects of 20 alpha-hydroxysteroid dehydrogenase and its inhibitors on canine osteosarcoma cell growth in vitro. Tanaka NM, et al. **J Vet Med Sci** 1996 Jul;58(7):623–7

Canine osteosarcoma: amputation and chemotherapy. Berg J. **Vet Clin North Am Small Anim Pract** 1996 Jan; 26(1):111–21 (29 ref.)

Radiation therapy in the management of bone tumors. McEntee MC. **Vet Clin North Am Small Anim Pract** 1997 Jan;27(1):131–8 (32 ref.)

Canine osteosarcoma: amputation and chemoimmunotherapy. MacEwen EG, et al. **Vet Clin North Am Small Anim Pract** 1996 Jan;26(1):123–33 (50 ref.)

Limb-sparing surgery versus amputation for dogs with bone tumors. Straw RC, et al. **Vet Clin North Am Small Anim Pract** 1996 Jan;26(1):135–43 (28 ref.)

Malignant articular plasmacytoma in two dogs. Gibson NR, et al. **Vet Rec** 1997 Aug 23;141(8):197–200

Synovial sarcoma in a ferret. Lloyd MH, et al. **Vet Rec** 1996 Dec 21-28;139(25):627–8

[Osteosarcoma in cats: epidemiological, clinical and radiological findings in 78 animals (1990-1995)] Kessler M, et al. **Tierarztl Prax** 1997 May;25(3):275–83 (Eng. Abstr.) **(Ger)**

VIROLOGY

Oncogenesis of mammary glands, skin, and bones by polyomavirus correlates with viral persistence and prolonged genome replication potential. Wirth JJ, et al. **J Virol** 1997 Feb;71(2):1072–8

BONE PASTES see **BONE CEMENTS**

BONE PINS see **BONE NAILS**

BONE PLATES

Justification for decreasing the number of views taken in radiologic follow-up of Casper plate cervical spine hardware. Doyle AJ, et al. **Acad Radiol** 1996 Jun; 3(6):479–85

An intra-operative technical aid to miniplating of mandibular fractures by fracture segment apposition. Van Hemelen G, et al. **Acta Chir Belg** 1997 Jun;97(3):123–6

Results and complications after posterior lumbar spondylodesis with the "Variable Screw Placement Spinal Fixation System". Bohnen IM, et al. **Acta Orthop Belg** 1997 Jun;63(2):67–73

Fixation of osteotomies of the distal femur with absorbable, self-reinforced, poly-L-lactide plates. An experimental study on rabbits. Koskikare K, et al. **Arch Orthop Trauma Surg** 1997;116(6-7):352–6

Compression plating of tibial fractures following primary external fixation. Siebert CH, et al. **Arch Orthop Trauma Surg** 1997;116(6-7):390–5

Simultaneous demonstration of alkaline and acid phosphatase activity in bone, at bone-implant interfaces and at the epiphyseal growth plate in plastic-embedded undemineralized tissues. Piattelli A, et al. **Biomaterials** 1997 Apr;18(7):545–9

A comparative review of 266 mandibular fractures with internal fixation using rigid (AO/ASIF) plates or mini-plates. Kuriakose MA, et al. **Br J Oral Maxillofac Surg** 1996 Aug;34(4):315–21

Stability of orthognathic surgery: a review of rigid fixation. Van Sickels JE, et al. **Br J Oral Maxillofac Surg** 1996 Aug; 34(4):279–85 (62 ref.)

An audit of mandibular fractures treated by intermaxillary fixation, intraosseous wiring and compression plating. Zachariades N, et al. **Br J Oral Maxillofac Surg** 1996 Aug; 34(4):293–7

An evaluation of the Würzburg titanium miniplate osteosynthesis system for mandibular fixation. Malata CM, et al. **Br J Plast Surg** 1997 Jan;50(1):26–32

Mennen plate in hip and shoulder joint replacement. Kligman M, et al. **Bull Hosp Jt Dis** 1997;56(2):84–7

Subclavian artery injury caused by a screw in a clavicular compression plate. Johnson B, et al. **Cardiovasc Surg** 1996 Jun;4(3):414–5

Blade plate reconstruction of metaphyseal nonunion of the tibia. Carpenter CA, et al. **Clin Orthop** 1996 Nov;(332):23–8

Hip fusion through an anterior approach with the use of a ventral plate. Matta JM, et al. **Clin Orthop** 1997 Apr; (337):129–39

Anterior plate instrumentation for disorders of the subaxial cervical spine. Vaccaro AR, et al. **Clin Orthop** 1997 Feb; (335):112–21 (31 ref.)

Treatment of pathological fractures of the humeral shaft due to bone metastases: a comparison of intramedullary locking nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6

Cervical laminar exostosis in multiple hereditary osteochondromatosis: anterior stabilization and fusion technique for preventing instability. Ergün R, et al. **Eur Spine J** 1997;6(4):267–9

Fusion rate after posterior lumbar interbody fusion with carbon fiber implant: 1-year follow-up of 51 patients. Tullberg T, et al. **Eur Spine J** 1996;5(3):178–82

Displaced intra-articular calcaneus fractures treated with the Galveston plate. Laughlin RT, et al. **Foot Ankle Int** 1996 Feb;17(2):71–8

The strength of iliosacral lag screws and transiliac bars in the fixation of vertically unstable pelvic injuries with sacral fractures. Gorczyca JT, et al. **Injury** 1996 Oct;27(8):561–4

Breakage of Mennen femur device. Hagroo GA, et al. **Injury** 1996 Oct;27(8):593–5

Plate osteosynthesis of diaphyseal fractures of the radius and ulna. Hertel R, et al. **Injury** 1996 Oct;27(8):545–8

Contoured LCDC plating of the proximal ulna. Simpson NS, et al. **Injury** 1996 Jul;27(6):411–7

Condylar plate fixation of subtrochanteric femoral fractures. van Meeteren MC, et al. **Injury** 1996 Dec;27(10):715–7

In vivo surface analysis of titanium and stainless steel miniplates and screws. Matthew IR, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):463–8

Poly(L-lactide) bone plates and screws for internal fixation of mandibular swing osteotomies. Tams J, et al. **Int J Oral Maxillofac Surg** 1996 Feb;25(1):20–4

Biomechanical evaluation of new fixation devices for mandibular angle fractures. Wittenberg JM, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):68–73

Comparative biomechanics of the sliding screw-plate and the Bousquet nail-plate. Steriopoulos K, et al. **Int Orthop** 1996;20(1):51–4

Instrumentation surgery for funnel chest. Nakamura T, et al. **Int Surg** 1995 Jul-Sep;80(3):235–8

Contact analysis of ultrahigh molecular weight polyethylene articular plate in artificial knee joint during gait movement. Ishikawa H, et al. **J Biomech Eng** 1996 Aug;118(3):377–86

Bidirectional friction study of cancellous bone-porous coated metal interface. Hashemi A, et al. **J Biomed Mater Res** 1996 Winter;33(4):257–67

Effects of Ca and H2O2 added to RPMI on the fretting corrosion of Ti6Al4V. Montague A, et al. **J Biomed Mater Res** 1996 Dec;32(4):519–26

Treatment of displaced intra-articular fractures of the distal end of the radius with plates. Fitoussi F, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1303–12

Atrophic nonunion of the clavicle: treatment by compression plate, lag-screw fixation and bone graft. Boyer MI, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):301–3

Wrist arthrodesis in rheumatoid arthritis. A new technique using internal fixation. Pech J, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):783–6

Complex nonunion of fractures of the femoral shaft treated by wave-plate osteosynthesis. Ring D, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):289–94

Immuno-inflammatory responses in the tissue adjacent to titanium miniplates used in the treatment of mandibular fractures. Katou F, et al. **J Craniomaxillofac Surg** 1996 Jun; 24(3):155–62

One- or two-plate fixation of mandibular angle fractures? Schierle HP, et al. **J Craniomaxillofac Surg** 1997 Jun; 25(3):162–8

The use of a calcaneal reconstruction plate in intra-articular calcaneal fractures. Frankel JP, et al. **J Foot Ankle Surg** 1996 Jul-Aug;35(4):318–30; discussion 370 (38 ref.)

Use of a bone block graft from the iliac crest with rigid fixation to correct diaphyseal defects of the radius and ulna. Barbieri CH, et al. **J Hand Surg [Br]** 1997 Jun;22(3):395–401

Loss of flexor pollicis longus function after plating of the radius. Report of six cases. Keogh P, et al. **J Hand Surg [Br]** 1997 Jun;22(3):375–6

A comparative mechanical analysis of plate fixation in a proximal phalangeal fracture model. Lins RE, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1059–64

Wrist arthrodesis using a dynamic compression plate. Sagerman SD, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):437–41

Revision of anterior cervical pseudoarthrosis with anterior allograft fusion and plating. Coric D, et al. **J Neurosurg** 1997 Jun;86(6):969–74

BONE PLATES

Banked fibula and anterior cervical locking plate [letter; comment] Hadley MN. **J Neurosurg** 1996 Oct;85(4):736–7 . Comment on: J Neurosurg 1996 Feb;84(2):161–5.

A bioabsorbable poly-L-lactide miniplate and screw system for osteosynthesis in oral and maxillofacial surgery. Bessho K, et al. **J Oral Maxillofac Surg** 1997 Sep; 55(9):941–5;discussion 945–6

Rigid fixation and strain patterns in the pig zygomatic arch and suture. Freeman JA, et al. **J Oral Maxillofac Surg** 1997 May;55(5):496–504; discussion 504–5

Titanium plate fixation: a review of implant failures [see comments] Banovetz JM, et al. **J Orthop Trauma** 1996; 10(6):389–94. Comment in: J Orthop Trauma 1997 Apr;11(3):239–40.

Refracture risk after plate removal in the forearm. Beaupre GS, et al. **J Orthop Trauma** 1996;10(2):87–92

Comparative biomechanical analysis of supracondylar femur fracture fixation: locked intramedullary nail versus 95-degree angled plate. David SM, et al. **J Orthop Trauma** 1997 Jul;11(5):344–50

Bone plate fixation: an evaluation of interface contact area and force of the dynamic compression plate (DCP) and the limited contact-dynamic compression plate (LC-DCP) applied to cadaveric bone. Field JR, et al. **J Orthop Trauma** 1997 Jul;11(5):368–73

Titanium plate fixation [letter; comment] Klaue K. **J Orthop Trauma** 1997 Apr;11(3):239–40. Comment on: J Orthop Trauma 1996;10(6):389–94.

Use of the Medoff sliding plate for subtrochanteric hip fractures. Kummer FJ, et al. **J Orthop Trauma** 1997 Apr; 11(3):180–2

The use of endosteal substitution in the treatment of recalcitrant nonunions of the femur: report of seven cases. Matelic TM, et al. **J Orthop Trauma** 1996;10(1):1–6

Strength recovery in fractured sheep tibia treated with a plate or an internal fixator: an experimental study with a two-year follow-up. Tepic S, et al. **J Orthop Trauma** 1997 Jan;11(1):14–23

Open reduction and internal fixation of the calcaneus using minifragment plates. Tornetta P 3d. **J Orthop Trauma** 1996; 10(1):63–7

Optimal side plate fixation for unstable intertrochanteric hip fractures. Yian EH, et al. **J Orthop Trauma** 1997 May; 11(4):254–9

Removal of femoral sherman plates--not a simple operation. Spalding TJ, et al. **J Pediatr Orthop B** 1996 Fall;5(4):287–91

Plate fixation of comminuted olecranon fractures: an in vitro biomechanical study. King GJ, et al. **J Shoulder Elbow Surg** 1996 Nov-Dec;5(6):437–41

Anterior cervical fusion: outcome analysis of patients fused with and without anterior cervical plates. Connolly PJ, et al. **J Spinal Disord** 1996 Jun;9(3):202–6

Rigix plate system for anterior fixation of thoracolumbar vertebrae. Matsuzaki H, et al. **J Spinal Disord** 1997 Aug; 10(4):339–47

The efficacy of pedicle screw/plate fixation on lumbar/lumbosacral autogenous bone graft fusion in adult patients with degenerative spondylolisthesis. Rechtine GR, et al. **J Spinal Disord** 1996 Oct;9(5):382–91

Adult spondylolisthesis treated with posterolateral lumbar fusion and pedicular instrumentation with AO DC plates. Thalgott JS, et al. **J Spinal Disord** 1997 Jun;10(3):204–8 (15 ref.)

Mennen plate fixation for fractures of the femoral shaft after ipsilateral hip arthroplasty. Uchio Y, et al. **J Trauma** 1997 Jun;42(6):1157–60

Resorbable fixation plates in head and neck surgery. Weisberger EC, et al. **Laryngoscope** 1997 Jun;107(6):716–9

Use of the Er:YAG laser for improved plating in maxillofacial surgery: comparison of bone healing in laser and drill osteotomies. Lewandrowski KU, et al. **Lasers Surg Med** 1996;19(1):40–5

Finite element stress analysis of a hybrid fracture fixation plate. Ferguson SJ, et al. **Med Eng Phys** 1996 Apr; 18(3):241–50

The Axis Fixation System for posterior instrumentation of the cervical spine. Cooper PR. **Neurosurgery** 1996 Sep; 39(3):612–4

Acrylic cranioplasty using miniplate struts [see comments] Replogle RE, et al. **Neurosurgery** 1996 Oct;39(4):747–9. Comment in: Neurosurgery 1997 Apr;40(4):885–6.

Acrylic cranioplasty using miniplate struts [letter; comment] Sherburn EW, et al. **Neurosurgery** 1997 Apr;40(4):885–6. Comment on: Neurosurgery 1996 Oct;39(4):747–9.

ORION anterior cervical plate system. Taha JM, et al. **Neurosurgery** 1996 Mar;38(3):607–9; 609–10

A comparison of mandibular angle fracture plating techniques. Haug RH, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):257–63

Relative displacement resistance of standard and low-profile bone plates in experimental mandibular angle fractures. Nissenbaum M, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):427–32

Photoelastic analysis of miniplate osteosynthesis for mandibular angle fractures. Rudman RA, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):129–36

Tissue reaction around miniplates used for the fixation of vascularized iliac crest bone grafts. Schön R, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):433–40

Anterior unicortical buttress plating in conjunction with an unreamed interlocking intramedullary nail for treatment of very proximal tibial diaphyseal fractures. Matthews DE, et al. **Orthopedics** 1997 Jul;20(7):647–8

Transcranial migration of microfixation plates and screws. Case report. Duke BJ, et al. **Pediatr Neurosurg** 1996 Jul; 25(1):31–4; discussion 35

Craniofacial skeletal fixation using biodegradable plates and cyanoacrylate glue. Ahn DK, et al. **Plast Reconstr Surg** 1997 May;99(6):1508–15; discussion 1516–7

Resorbable plate fixation in pediatric craniofacial surgery. Eppley BL, et al. **Plast Reconstr Surg** 1997 Jul;100(1):1–7; discussion 8–13

Detection of titanium in human tissues after craniofacial surgery. Jorgenson DS, et al. **Plast Reconstr Surg** 1997 Apr; 99(4):976–9; discussion 980–1

Binder syndrome: staging of reconstruction and skeletal stability and relapse patterns after LeFort I osteotomy using miniplate fixation. Posnick JC, et al. **Plast Reconstr Surg** 1997 Apr;99(4):961–73; discussion 974–5

Comparison of rigid plate versus wire fixation in the management of zygoma fractures: a long-term follow-up clinical study [letter; comment] Taher AA. **Plast Reconstr Surg** 1997 Feb;99(2):592. Comment on: Plast Reconstr Surg 1995 Sep;96(3):570–5.

Rigid plate versus wire fixation for zygoma fracture [letter; comment] Top H, et al. **Plast Reconstr Surg** 1996 Nov; 98(6):1117–8. Comment on: Plast Reconstr Surg 1995 Sep;96(3):570–5.

Complications following metal removal: a follow-up of surgically treated forearm fractures. Chia J, et al. **Singapore Med J** 1996 Jun;37(3):268–9

Plating of displaced mid-tibial fractures--a retrospective review of 80 cases. Singh S, et al. **Singapore Med J** 1997 Feb;38(2):58–61

Four year experience with the AO Anterior Thoracolumbar Locking Plate. Thalgott JS, et al. **Spinal Cord** 1997 May; 35(5):286–91

The effect of anterior thoracolumbar plate application on the compressive loading of the strut graft. Harris MB, et al. **Spine** 1996 Jul 1;21(13):1487–93

Cervical pedicle screws versus lateral mass screws. Anatomic feasibility and biomechanical comparison. Jones EL, et al. **Spine** 1997 May 1;22(9):977–82

Cervical interbody xenograft with plate fixation: evaluation of fusion after 7 years of use in post-traumatic discoligamentous instability. Malca SA, et al. **Spine** 1996 Mar 15;21(6):685–90

The anatomy of the human lumbar ligamentum flavum. New observations and their surgical importance. Olszewski AD, et al. **Spine** 1996 Oct 15;21(20):2307–12

A biomechanical study of a cervical spine stabilization device: Roy-Camille plates. Smith ME, et al. **Spine** 1997 Jan 1; 22(1):38–43

Rigid internal fixation with lateral mass plates in multilevel anterior and posterior reconstruction of the cervical spine. Swank ML, et al. **Spine** 1997 Feb 1;22(3):274–82

A novel technique for laminoplasty augmentation of spinal canal area using titanium miniplate stabilization: a computerized morphometric analysis [letter; comment] Tsuzuki N. **Spine** 1997 Apr 15;22(8):926–7. Comment on: Spine 1996 Feb 15;21(4):474–83; discussion 484.

Chest wall reconstruction using a titanium hollow screw reconstruction plate. Nomori H, et al. **Thorac Cardiovasc Surg** 1997 Feb;45(1):35–7

[Retrosternal luxation of the clavicle. Apropos of 4 cases surgically treated using a temporary screwed anterior plate and review of the literature] Asfazadourian H, et al. **Ann Chir Main Memb Super** 1997;16(2):152–69 (114 ref.) (Eng. Abstr.) **(Fre)**

[The Staca nail-plate in the treatment of trochanteric fractures] Cuny C, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):410–6 (Eng. Abstr.) **(Fre)**

[Biomechanical comparative study of three types of osteosynthesis in the treatment of supra and intercondylar fractures of the humerus in adults] Fornasiéri C, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):237–42 (Eng. Abstr.) **(Fre)**

[Osteosynthesis of the odontoid process by a clover-shaped plate] Vichard P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):663–7 (Eng. Abstr.) **(Fre)**

[The "low contact plate" for stabilizing the dislocated intra-articular calcaneus fractures] Bauer G, et al. **Chirurg** 1996 Nov;67(11):1129–34 (Eng. Abstr.) **(Ger)**

[The dynamic hip screw with support plate--a reliable osteosynthesis for highly unstable "reverse" trochanteric fractures?] Dávid A, et al. **Chirurg** 1996 Nov;67(11):1166–73 (Eng. Abstr.) **(Ger)**

[Scanning electron microscopic studies on the corrosion behavior of osteosynthesis plates made of titanium and V4A steel. A case report] Bienengräber V, et al. **Dtsch Zahn Mund Kieferheilkd Zentralbl** 1991;79(1):35–6 **(Ger)**

[Titanium implants in accident surgery--when are they necessary?] Arens S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:938–40 (Eng. Abstr.) **(Ger)**

[Results of a differentiated therapy concept for dislocated subcapital humeral fractures in elderly patients] Damanakis K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:910–1 (Eng. Abstr.) **(Ger)**

[Proximal humerus fracture in advanced age] Hessmann M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:907–9 (Eng. Abstr.) **(Ger)**

[Bridging plate osteosynthesis in simple femoral fractures--a minimally invasive method in polytrauma] Knopp W, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:951–3 (Eng. Abstr.) **(Ger)**

[Advantage of load-bearing osteosynthesis of pertrochanteric fractures in geriatric traumatology] Schwämmle K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:967–9 (Eng. Abstr.) **(Ger)**

[Osteosynthesis in the mid-face and forehead area] Siegert R, et al. **Laryngorhinootologie** 1996 Jul;75(7):419–25 (Eng. Abstr.) **(Ger)**

[Treatment of fresh Tossy III acromioclavicular joint dislocation by ligament suture and temporary fixation with the clavicular hooked plate] Henkel T, et al. **Swiss Surg** 1997;3(4):160–6 (Eng. Abstr.) **(Ger)**

[Modified treatment concept in fractures of the humeral head in elderly patients] Damanakis K, et al. **Unfallchirurg** 1996 Aug;99(8):561–8 (Eng. Abstr.) **(Ger)**

[Distal femoral fractures. Transarticular reconstruction, percutaneous plate osteosynthesis and retrograde nailing] Krettek C, et al. **Unfallchirurg** 1996 Jan;99(1):2–10 (20 ref.) (Eng. Abstr.) **(Ger)**

[Plate osteosynthesis management of humerus shaft fractures] Siebert CH, et al. **Unfallchirurg** 1996 Feb;99(2):106–11 (Eng. Abstr.) **(Ger)**

[Elastic plate osteosynthesis, biomechanics, indications and technique in comparison with rigid osteosynthesis] Stürmer KM. **Unfallchirurg** 1996 Nov;99(11):816–29 (57 ref.) (Eng. Abstr.) **(Ger)**

[Elastic plate osteosynthesis (editorial)] Tscherne H, et al. **Unfallchirurg** 1996 Nov;99(11):815 **(Ger)**

[Clinical use of resorbable polymer mini-plates in mandibular fractures: a one-year experience] Tartaro GP, et al. **Minerva Stomatol** 1996 Jul-Aug;45(7-8):305–9 (Eng. Abstr.) **(Ita)**

[Twenty-eight years' treatments using high tibial osteotomy with development of Y-blade plate and postoperative repair of degenerated cartilage in the osteoarthritic knee] Koshino T. **Nippon Seikeigeka Gakkai Zasshi** 1996 Dec; 70(12):817–25 (29 ref.) **(Jpn)**

[Endoprosthesis of the cranium and facial skull with perforated plates made of titanium] Bel'chenko VA, et al. **Stomatologiia (Mosk)** 1996;75(2):52–4 (Eng. Abstr.) **(Rus)**

[The use of titanium plates and endoprostheses for the mandibular condyles in reconstructive surgery of the mandible] Semkin VA, et al. **Stomatologiia (Mosk)** 1996; 75(3):27–9 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Factors involved in long- and short-term mandibular plate exposure. Nicholson RE, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):217–22

Osteosynthesis of condylar neck fractures: a review of 30 patients. Hammer B, et al. **Br J Oral Maxillofac Surg** 1997 Aug;35(4):288–91

Adult respiratory distress syndrome, pneumonia, and mortality following thoracic injury and a femoral fracture treated either with intramedullary nailing with reaming or with a plate. A comparative study. Bosse MJ, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):799–809

Pulmonary effects of fixation of a fracture with a plate compared with intramedullary nailing. A canine model of fat embolism and fracture fixation. Schemitsch EH, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):984–96

Tissue response to titanium plates: a transmitted electron microscopic study. Kim YK, et al. **J Oral Maxillofac Surg** 1997 Apr;55(4):322–6

[An experimental study of the effects of stress-relaxation plate on bone remodeling] Dai M, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):698–700 (Eng. Abstr.) **(Chi)**

STANDARDS

Biaxial dynamization in unstable intertrochanteric fractures. Good experience with a simplified Medoff sliding plate in 94 patients. Olsson O, et al. **Acta Orthop Scand** 1997 Aug;68(4):327–31

Preparation and characterization of double layered coating composed of hydroxyapatite and perovskite by thermal decomposition. Zhou P, et al. **Biomed Mater Eng** 1997; 7(1):67–81

Improved fracture healing with less rigid plates. A biomechanical study in dogs. Foux A, et al. **Clin Orthop** 1997 Jun;(339):232–45

VETERINARY

Repair of a mid-diaphyseal femoral fracture in a boar. Grisel GR, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1608–10

Miniplate fixation for repair of mandibular and maxillary fractures in 15 dogs and 3 cats. Boudrieau RJ, et al. **Vet Surg** 1996 Jul-Aug;25(4):277–91

Use of a medial bone plate for repair of radius and ulna fractures in dogs and cats: a report of 22 cases. Sardinas JC, et al. **Vet Surg** 1997 Mar-Apr;26(2):108–13

[The use of the veterinary cuttable plate in 160 cases] Brüse

S, et al. **Tierarztl Prax** 1996 Dec;24(6):581–9 (Eng. Abstr.) **(Ger)**

BONE REGENERATION

see related
CALLUS
FRACTURE HEALING

Complete fibular regeneration following removal of the fibula for bone grafting. Vandeweyer E, et al. **Acta Chir Belg** 1996 Jul–Aug;96(4):182–4

Bone mass, vitamin D deficiency, and hyperparathyroidism in congestive heart failure. Shane E, et al. **Am J Med** 1997 Sep;103(3):197–207

High–precision, cost–effective cutting system for producing thin sections of oral tissues containing dental implants. Piattelli A, et al. **Biomaterials** 1997 Apr;18(7):577–9

Clinical and histological results in alveolar ridge enlargement using coralline calcium carbonate. Piattelli A, et al. **Biomaterials** 1997 Apr;18(8):623–7

Histological evaluation of freeze–dried dura mater (FDDMA) used in guided bone regeneration (GBR): a time course study in man. Piattelli M, et al. **Biomaterials** 1996 Dec;17(24):2319–23

Failure of osseous conduction with cervical interbody BOP graft. Hafez RF, et al. **Br J Neurosurg** 1997 Feb;11(1):57–9

Guided bone regeneration in long bone. An experimental study. Lu S, et al. **Chin Med J (Engl)** 1996 Jul;109(7):551–4

Bone regeneration by a combination of osteopromotive membranes with different BMP preparations: a review. Zellin G, et al. **Connect Tissue Res** 1996;35(1–4):279–84 (20 ref.)

Bone tissue reactions to demineralized freeze–dried bone in conjunction with e–PTFE barrier membranes in man. Donath K, et al. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 1)):96–101

Biocompatibility and osteoconductivity of the pyrost bone substitutes. Tsuang YH, et al. **Histol Histopathol** 1997 Jan; 12(1):19–24

Success and failure rates of osseointegrated implants in function in regenerated bone for 6 to 51 months: a preliminary report. Fugazzotto PA. **Int J Oral Maxillofac Implants** 1997 Jan–Feb;12(1):17–24

Guided tissue repair of complete buccal dehiscences associated with periapical defects: a clinical retrospective study. Pompa DG. **J Am Dent Assoc** 1997 Jul;128(7):989–97

Bone formation by three–dimensional stromal osteoblast culture in biodegradable polymer scaffolds. Ishaug SL, et al. **J Biomed Mater Res** 1997 Jul;36(1):17–28

A highly porous 3–dimensional polyphosphazene polymer matrix for skeletal tissue regeneration. Laurencin CT, et al. **J Biomed Mater Res** 1996 Feb;30(2):133–8

Guided bone regeneration to facilitate implant and prosthodontic therapy: three case reports. Jones T, et al. **J Can Dent Assoc** 1996 Oct;62(10):799–803

Self–regenerating bone implant: ectopic osteoinduction following intramuscular implantation of a combination of rhBMP–2, atelopeptide type I collagen and porous hydroxyapatite. Kusumoto K, et al. **J Craniomaxillofac Surg** 1996 Dec;24(6):360–5

Use of Bioplant HTR synthetic bone to eliminate major jawbone defects: long–term human histological examinations. Szabó G, et al. **J Craniomaxillofac Surg** 1997 Apr;25(2):63–8

Potential efficacy of basic fibroblast growth factor incorporated in biodegradable hydrogels for skull bone regeneration. Yamada K, et al. **J Neurosurg** 1997 May; 86(5):871–5

Effect of decalcified freeze–dried bone allograft on the healing of jaw defects after cyst enucleation. Bodner L. **J Oral Maxillofac Surg** 1996 Nov;54(11):1282–6

A comparison of 2 polytetrafluoroethylene membranes in guided tissue regeneration in sheep. Danesh–Meyer MJ, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 1):20–30

Regeneration of rat calvarial defects using a bioabsorbable membrane technique: influence of collagen cross–linking. Brunel G, et al. **J Periodontol** 1996 Dec;67(12):1342–8

Guided tissue regeneration therapy of 203 consecutively treated intrabony defects using a bioabsorbable matrix barrier. Clinical and radiographic findings. Falk H, et al. **J Periodontol** 1997 Jun;68(6):571–81

A bone regenerative approach to alveolar ridge maintenance following tooth extraction. Report of 10 cases. Lekovic V, et al. **J Periodontol** 1997 Jun;68(6):563–70

Influence of three membrane types on healing of bone defects. Crump TB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Oct;82(4):365–74

Healing potential of osteotomies of the nasal sinus in the dog. Tataryn RW, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):196–202

Reactive bone and cartilage forming processes of the hands and feet [letter] Ishida T, et al. **Pathol Int** 1995 Dec; 45(12):975–6

Osteopromotion for cranioplasty: an experimental study in rats using acidic fibroblast growth factor. Cuevas P, et al. **Surg Neurol** 1997 Mar;47(3):242–6

[Osteocartilaginous reconstruction, research and clinical application] Eberlin JL, et al. **Swiss Surg** 1996;2(6):264–8 (Eng. Abstr.) **(Fre)**

[The formation of a distraction regenerate in the experimental modelling of the shape of the spinal canal] Chirkova AM, et al. **Morfologiia** 1997;111(1):94–7 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Bone morphogenetic protein promotes vascularization and osteoinduction in preformed hydroxyapatite in the rabbit. Levine JP, et al. **Ann Plast Surg** 1997 Aug;39(2):158–68

Animal studies of application of rhBMP–2 in maxillofacial reconstruction. Boyne PJ. **Bone** 1996 Jul;19(1 Suppl):83S–92S

Effects of prednisolone on bone turnover in patients with corticosteroid resistant asthma. Lane SJ, et al. **Clin Exp Allergy** 1996 Oct;26(10):1197–201

Complete regeneration of bone in the baboon by recombinant human osteogenic protein–1 (hOP–1, bone morphogenetic protein–7). Ripamonti U, et al. **Growth Factors** 1996; 13(3–4):273–89,color plates III–VIII,pre.bk

The effect of Ca–P plasma–sprayed coatings on the initial bone healing of oral implants: an experimental study in the goat. Caulier H, et al. **J Biomed Mater Res** 1997 Jan; 34(1):121–8

Systemically and locally administered growth hormone stimulates bone healing in combination with osteopromotive membranes: an experimental study in rats. Hedner E, et al. **J Bone Miner Res** 1996 Dec;11(12):1952–60

Long–term results of hydroxyapatite–fibrin glue implantation in plastic and reconstructive craniofacial surgery. Fortunato G, et al. **J Craniomaxillofac Surg** 1997 Jun; 25(3):124–35

Recombinant human bone morphogenetic protein–2 promotes wound healing in rat periodontal fenestration defects. King GN, et al. **J Dent Res** 1997 Aug;76(8):1460–70

Effects of short–term insulin–like growth factor–I or growth hormone treatment on bone turnover, renal phosphate reabsorption and 1,25 dihydroxyvitamin D3 production in healthy man. Bianda T, et al. **J Intern Med** 1997 Feb; 241(2):143–50

Biological effects of drug–loaded biodegradable membranes for guided bone regeneration. Chung CP, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):172–5

Ability of commercial demineralized freeze–dried bone allograft to induce new bone formation [see comments] Schwartz Z, et al. **J Periodontol** 1996 Sep;67(9):918–26. Comment in: J Periodontol 1996 Sep;67(9):946–8.

Is there a role for DFDBA in periodontal regenerative therapy? [editorial; comment] Somerman MJ. **J Periodontol** 1996 Sep;67(9):946–8. Comment on: J Periodontol 1996 Sep;67(9):918–26.

Effect of intermittent cigarette smoke inhalation on tibial lengthening: experimental study on rabbits. Ueng SW, et al. **J Trauma** 1997 Feb;42(2):231–8

Estrogen therapy enhances calcium absorption and retention and diminishes bone turnover in young girls with Turner's syndrome: a calcium kinetic study. Mauras N, et al. **Metabolism** 1997 Aug;46(8):908–13

GENETICS

Molecular methods of enhancing lumbar spine fusion. Sheehan JP, et al. **Neurosurgery** 1996 Sep;39(3):548–54

PHYSIOLOGY

Osteoregenerative lateral suboccipital craniectomy using fibrin glue. Sawamura Y, et al. **Acta Neurochir (Wien)** 1997; 139(5):446–51; discussion 451–2

The relative importance of intramedullary, intracortical, and extraosseous soft–tissue blood flow to the repair of devascularized canine tibial cortex. Schemitsch EH, et al. **Ann Plast Surg** 1997 Jun;38(6):623–31

Dual–energy X–ray absorptiometry predicts bone formation in lower limb callotasis lengthening. Maffulli N, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):250–6

Assessment of healing phenomena in rheumatoid arthritis: comment on the article by Rau and Herborn [letter; comment] Cabral AR, et al. **Arthritis Rheum** 1996 Nov; 39(11):1934–5. Comment on: Arthritis Rheum 1996 Jan;39(1):162–8.

Tissue engineered bone–regeneration using degradable polymers: the formation of mineralized matrices. Laurencin CT, et al. **Bone** 1996 Jul;19(1 Suppl):93S–99S

Growth factors for bone growth and repair: IGF, TGF beta and BMP. Linkhart TA, et al. **Bone** 1996 Jul;19(1 Suppl):1S–12S (96 ref.)

The role of microvasculature in normal and perturbed bone healing as revealed by intravital microscopy. Winet H. **Bone** 1996 Jul;19(1 Suppl):39S–57S (73 ref.)

A molecular approach to bone regeneration. Stone CA. **Br J Plast Surg** 1997 Jul;50(5):369–73 (78 ref.)

Bone injury response. An animal model for testing theories of regulation. Landry PS, et al. **Clin Orthop** 1996 Nov; (332):260–73

Comparison of various interpositional materials in the prevention of transphyseal bone bridge formation. Martiana K, et al. **Clin Orthop** 1996 Apr;(325):218–24

Bone regeneration with resorbable polymeric membranes. III. Effect of poly(L–lactide) membrane pore size on the bone healing process in large defects. Pineda LM, et al. **J Biomed Mater Res** 1996 Jul;31(3):385–94

Spontaneous regeneration of the lateral malleolus after traumatic loss in a three–year–old boy: a case report with seven–year follow–up. Park HW, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):66–7

Markers of bone and cementum formation accumulate in tissues regenerated in periodontal defects treated with expanded polytetrafluoroethylene membranes. Amar S, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):148–58

Underlying mechanisms at the bone–surface interface during regeneration. Schwartz Z, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):166–71 (36 ref.)

Protease repertoires of cells adherent to membranes recovered after guided tissue regeneration. Wakabayashi RC, et al. **J Periodontal Res** 1996 Apr;31(3):171–80

Metal substrates influence the release of glycosaminoglycan and transforming growth factor beta by human bone cells. Locci P, et al. **J Periodontol** 1996 Dec;67(12):1260–6

Influence of smoking on long–term clinical results of intrabony defects treated with regenerative therapy. Rosen PS, et al. **J Periodontol** 1996 Nov;67(11):1159–63

Expression of extracellular matrix macromolecules around demineralized freeze–dried bone allografts. Xiao Y, et al. **J Periodontol** 1996 Nov;67(11):1233–44

Liposomes–coated hydroxyapatite and tricalcium phosphate implanted in the mandibular bony defect of miniature swine. Huang JS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):213–28

The integrated processes of hard tissue regeneration with special emphasis on fracture healing. Hollinger J, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):594–606 (87 ref.)

Healing of osseous submucous cleft palates with guided bone regeneration. Matzen M, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):161–7

[Ultrasound follow–up of callus distraction of the tibia. Technique, possibilities and limits] Richter D, et al. **Chirurg** 1996 Nov;67(11):1152–9 (Eng. Abstr.) **(Ger)**

[Ultrasound follow–up of callus distraction––an alternative to roentgen diagnosis?] Richter D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:931–3 (Eng. Abstr.) **(Ger)**

[Treatment of osteoporosis by activation of endogenous physiological regenerative capacities] Pruimboom L, et al. **Sportverletz Sportschaden** 1997 Mar;11(1):XVII–XVIII **(Ger)**

[Use of densitometric measurements for evaluation of bone regeneration in lengthening of the long bone shaft] Hussein A, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):601–6 (Eng. Abstr.) **(Pol)**

RADIATION EFFECTS

Stimulatory effects of low–power laser irradiation on bone regeneration in midpalatal suture during expansion in the rat. Saito S, et al. **Am J Orthod Dentofacial Orthop** 1997 May;111(5):525–32

[The effect of noncoherent infrared radiation on the bone tissue reparation of the mandible in an experiment] Deriabin EI. **Stomatologiia (Mosk)** 1997;76(2):24–5 (Eng. Abstr.) **(Rus)**

BONE REMODELING

Craniofacial bone remodeling in growing rats fed a low–calcium and vitamin–D–deficient diet and the influence of masticatory muscle function. Kiliaridis S, et al. **Acta Odontol Scand** 1996 Oct;54(5):320–6

Focal destruction and remodeling in guinea pig arthrosis de Bri E, et al. **Acta Orthop Scand** 1996 Oct;67(5):498–504

Dynamics of hip joint remodeling after Chiari osteotomy. 10 patients with neuromuscular disease followed for 8 years. Osebold WR, et al. **Acta Orthop Scand** 1997 Apr; 68(2):128–32

Alveolar bone turnover and tooth movement in male rats after removal of orthodontic appliances. King GJ, et al. **Am J Orthod Dentofacial Orthop** 1997 Mar;111(3):266–75

Trabecular and endocortical bone surfaces in the rat: modeling or remodeling? Erben RG. **Anat Rec** 1996 Sep; 246(1):39–46

Bone remodeling alterations in myelodysplastic syndrome. Mellibovsky L, et al. **Bone** 1996 Oct;19(4):401–5

Identification of apoptotic changes in osteocytes in normal and pathological human bone. Noble BS, et al. **Bone** 1997 Mar;20(3):273–82

Biochemical markers of bone turnover reflect femoral bone loss in elderly women. Dresner–Pollak R, et al. **Calcif Tissue Int** 1996 Nov;59(5):328–33

New developments in biochemical markers for osteoporosis. Garnero P, et al. **Calcif Tissue Int** 1996;59 Suppl 1:S2–9 (79 ref.)

Ipriflavone does not alter bone apatite crystal structure in adult male rats. Ghezzo C, et al. **Calcif Tissue Int** 1996 Dec;59(6):496–9

Bone mineral density and turnover following forelimb immobilization and recovery in young adult dogs. Lane NE, et al. **Calcif Tissue Int** 1996 Nov;59(5):401–6

Bone remodeling, normal and abnormal: a biological basis for the understanding of cancer–related bone disease and its treatment. Parfitt AM. **Can J Oncol** 1995 Dec;5 Suppl 1:1–10 (50 ref.)

The Otto Aufranc Award. Skeletal response to well fixed femoral components inserted with and without cement. Maloney WJ, et al. **Clin Orthop** 1996 Dec;(333):15–26

Radiographic analysis of a cemented titanium alloy femoral component. Meding JB, et al. **Clin Orthop** 1997 Jan;

(334):184–9
Longitudinal evaluation of time related bone remodeling after cementless total hip arthroplasty. Nishii T, et al. **Clin Orthop** 1997 Jun;(339):121–31
Molecular basis and clinical application of biological markers of bone turnover. Calvo MS, et al. **Endocr Rev** 1996 Aug; 17(4):333–68 (431 ref.)
The effects of androgen deficiency on murine bone remodeling and bone mineral density are mediated via cells of the osteoblastic lineage. Weinstein RS, et al. **Endocrinology** 1997 Sep;138(9):4013–21
New evidence that serum beta(2)–microglobulin behaves as a biological marker of bone remodelling in women. Ripoll E, et al. **Eur J Clin Invest** 1996 Aug;26(8):681–5
Inflammatory polyarthropathy and bone remodeling in HTLV–I Tax–transgenic mice. Saggioro D, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Mar 1;14(3):272–80
Factors influencing stability at the interface between a porous surface and cancellous bone: a finite element analysis of a canine in vivo micromotion experiment. Ramamurti BS, et al. **J Biomed Mater Res** 1997 Aug;36(2):274–80
Differentiation of the bone–tissue remodeling response to axial and torsional loading in the turkey ulna. Rubin C, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1523–33
Growth of the proximal fibular physis and remodeling of the epiphysis after microvascular transfer. A case report. Shea KG, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):583–6
Periprosthetic bone remodelling after cementless total hip replacement. A prospective comparison of two different implant designs. Ang KC, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):675–9
Bone growth and remodelling after fracture. Murray DW, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):42–50
Femoral remodelling after subtrochanteric osteotomy for developmental dysplasia of the hip. Sangavi SM, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):917–23
The usefulness of bone turnover in predicting the response to transdermal estrogen therapy in postmenopausal osteoporosis. Gonnelli S, et al. **J Bone Miner Res** 1997 Apr;12(4):624–31
Histomorphometric assessment of bone mass, structure, and remodeling: a comparison between healthy black and white premenopausal women. Parisien M, et al. **J Bone Miner Res** 1997 Jun;12(6):948–57
Longitudinal changes in bone mineral density and bone turnover in postmenopausal women with primary hyperparathyroidism. Guo CY, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3487–91
Reduced serum levels of the growth hormone–dependent insulin–like growth factor binding protein and a negative bone balance at the level of individual remodeling units in idiopathic osteoporosis in men [comment] Johansson AG, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2795–8 . Comment on: J Clin Endocrinol Metab 1997 Sep;82(9):2792–4.
Effects of age and estrogen status on serum parathyroid hormone levels and biochemical markers of bone turnover in women: a population–based study. Khosla S, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1522–7
Bone loss and turnover after cardiac transplantation. Shane E, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1497–506
Calciotropic hormones and markers of bone remodeling in age–related (type II) femoral neck osteoporosis: alterations consistent with secondary hyperparathyroidism–induced bone resorption. Boonen S, et al. **J Gerontol A Biol Sci Med Sci** 1997 Sep;52(5):M286–93
Slipped capital femoral epiphysis: a long–term follow–up, with special emphasis on the capacities for remodeling. Bellemans J, et al. **J Pediatr Orthop B** 1996 Summer; 5(3):151–7
Bone remodeling in malunited fractures in children. Is it reliable? Gascó J, et al. **J Pediatr Orthop B** 1997 Apr; 6(2):126–32 (88 ref.)
Spinal canal remodeling in burst fractures of the thoracolumbar spine: a computerized tomographic comparison between operative and nonoperative treatment. Yazici M, et al. **J Spinal Disord** 1996 Oct;9(5):409–13
Collagenase–3 (MMP–13) is expressed during human fetal ossification and re–expressed in postnatal bone remodeling and in rheumatoid arthritis. Ståhle–Bäckdahl M, et al. **Lab Invest** 1997 May;76(5):717–28
Radiograph processing for quantitative assessment of bone remodelling. Audenino AL, et al. **Med Eng Phys** 1996 Jul; 18(5):382–9
Prediction of human gait parameters from temporal measures of foot–ground contact. Breit GA, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):540–7
Adynamic bone lesion in renal transplant recipients with normal renal function. Velasquez–Forero F, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:58–64
Biochemical markers for bone diseases: current status and future trends. Proceedings of the 5th Bergmeyer Conference. Tutzing, DE, 1996. **Scand J Clin Lab Invest Suppl** 1997;227:1–127
Journey across the osteoclast [comment] Mostov K, et al. **Science** 1997 Apr 11;276(5310):219–20 (17 ref.). Comment on: Science 1997 Apr 11;276(5310):266–9. Comment on: Science 1997 Apr 11;276(5310):270–3.
Bone mass, bone turnover, calcium homeostasis, and body composition in surgically and radioiodine–treated former hyperthyroid patients. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):169–75
Bone mass, bone turnover, body composition, and calcium homeostasis in former hyperthyroid patients treated by combined medical therapy. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):161–8
[An experimental study of the effects of stress–relaxation plate on bone remodeling] Dai M, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):698–700 (Eng. Abstr.) **(Chi)**
[Effects of ipriflavone on bone loss induced by GnRH analog] Pellicano M, et al. **Minerva Ginecol** 1996 Oct;48(10):435–9 (Eng. Abstr.) **(Ita)**

DRUG EFFECTS

Effects of thyroxine therapy on bone metabolism in postmenopausal women with hypothyroidism. Affinito P, et al. **Acta Obstet Gynecol Scand** 1996 Oct;75(9):843–8
Changes in bone markers in children with asthma during inhaled budesonide and nedocromil treatments. Sorva R, et al. **Acta Paediatr** 1996 Oct;85(10):1176–80
Alcohol, osteoporosis, and bone regulating hormones. Sampson HW. **Alcohol Clin Exp Res** 1997 May;21(3):400–3 (45 ref.)
Tetracycline/flurbiprofen combination therapy modulates bone remodeling in ovariectomized rats: preliminary observations. Aoyagi M, et al. **Bone** 1996 Dec;19(6):629–35
Short–term effects of corticosteroids on trabecular bone remodeling in old ewes. Chavassieux P, et al. **Bone** 1997 May;20(5):451–5
The effects of clodronate on increased bone turnover and bone loss due to ovariectomy in rats. Kippo K, et al. **Bone** 1995 Dec;17(6):533–42
Bone histomorphometry in hypoparathyroid patients treated with vitamin D. Langdahl BL, et al. **Bone** 1996 Feb; 18(2):103–8
Effect of nasal salmon calcitonin on bone remodeling and bone mass in postmenopausal osteoporosis. Thamsborg G, et al. **Bone** 1996 Feb;18(2):207–12
The effects of long–term hormone replacement therapy on bone remodeling in postmenopausal women. Vedi S, et al. **Bone** 1996 Nov;19(5):535–9
Effects of indomethacin administration on bone turnover and bone mass in adjuvant–induced arthritis in rats. Aota S, et al. **Calcif Tissue Int** 1996 Nov;59(5):385–91
Intravenous administration of alendronate counteracts the in vivo effects of glucocorticoids on bone remodeling. Falcini F, et al. **Calcif Tissue Int** 1996 Mar;58(3):166–9
Increase in femoral bone mass by ipriflavone alone and in combination with 1 alpha–hydroxyvitamin D3 in growing rats with skeletal unloading. Notoya K, et al. **Calcif Tissue Int** 1996 Feb;58(2):88–94
Comparison of the ability of recombinant human parathyroid hormone, rhPTH–(1–84), and hPTH–(1–31)NH2 to stimulate femoral trabecular bone growth in ovariectomized rats. Whitfield JF, et al. **Calcif Tissue Int** 1997 Jan;60(1):26–9
Longitudinal changes of bone mineral density and bone turnover in postmenopausal women on thyroxine. Guo CY, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):301–7
Glucocorticoid replacement therapy: are patients over treated and does it matter? [see comments] Peacey SR, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):255–61. Comment in: Clin Endocrinol (Oxf) 1997 Mar;46(3):269–70.
Aromatase inhibition impairs skeletal modeling and decreases bone mineral density in growing male rats. Vanderschueren D, et al. **Endocrinology** 1997 Jun;138(6):2301–7
Cyclosporine induces high bone turnover and may contribute to bone loss after heart transplantation. Thiébaud D, et al. **Eur J Clin Invest** 1996 Jul;26(7):549–55
A slightly suppressive dose of L–thyroxine does not affect bone turnover and bone mineral density in pre– and postmenopausal women with nontoxic goitre. De Rosa G, et al. **Horm Metab Res** 1995 Nov;27(11):503–7
"Healing of a segmental defect in the rat femur with use of an extract from a cultured human osteosarcoma cell–line (Saos–2). A preliminary report" [letter; comment] Klaue K. **J Bone Joint Surg Am** 1997 Apr;79(4):633. Comment on: J Bone Joint Surg Am 1996 Jan;78(1):41–8.
Effects of intermittent hPTH(1–34) alone and in combination with 1,25(OH)(2)D(3) or risedronate on endosteal bone remodeling in canine cancellous and cortical bone. Boyce RW, et al. **J Bone Miner Res** 1996 May;11(5):600–13
Bone–selective analogs of human PTH(1–34) increase bone formation in an ovariectomized rat model. Lane NE, et al. **J Bone Miner Res** 1996 May;11(5):614–25
Comparison of biochemical markers of bone turnover in Paget disease treated with pamidronate and a proposed model for the relationships between measurements of the different forms of pyridinoline cross–links. Randall AG, et al. **J Bone Miner Res** 1996 Aug;11(8):1176–84
Effects of short–term recombinant human insulin–like growth factor I administration on bone turnover in osteopenic women with anorexia nervosa. Grinspoon S, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3864–70
Sublingual testosterone replacement improves muscle mass and strength, decreases bone resorption, and increases bone formation markers in hypogonadal men––a clinical research center study. Wang C, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3654–62
The effect of cyclosporin A administration on bone metabolism in the rat evaluated by biochemical markers. Kawana K, et al. **J Endocrinol Invest** 1996 Sep; 19(8):499–504
Study of bisphosphonates leads to new views of bone remodeling, therapy for skeletal malignancy [news] Marwick C. **JAMA** 1997 Sep 10;278(10):803–4
Effect of short course of 1,25–dihydroxyvitamin D3 on biochemical markers of bone remodelling in postmenopausal women. Sirtori P, et al. **Pharmacol Res** 1996 Jun;33(6):353–9
Estrogen regulates the rate of bone turnover but bone balance in ovariectomized rats is modulated by prevailing mechanical strain. Westerlind KC, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4199–204
Fluoride therapy for bone disease. Orcel P, et al. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):63S–69S (47 ref.)
Alendronate: preclinical studies. Rodan GA. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):50S–52S
Calcitonin. Sewell KL. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):56S–62S (23 ref.)

GENETICS

Genetic effects on bone mass and turnover–relevance to black/white differences. Parfitt AM. **J Am Coll Nutr** 1997 Aug;16(4):325–33 (86 ref.)

IMMUNOLOGY

[Involvement of the immune system in bone destruction and formation] Rachmiel A, et al. **Harefuah** 1997 Apr 1; 132(7):478–80 (28 ref.) **(Heb)**

PHYSIOLOGY

Neuropeptides and the puzzle of bone remodeling. State of the art. Konttinen Y, et al. **Acta Orthop Scand** 1996 Dec; 67(6):632–9 (53 ref.)
Dua.–energy X–ray absorptiometric densitometry in osteoarthritis of the hip. Influence of secondary bone remodeling of the femoral neck. Preidler KW, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):539–42
Alcohol, cytokines, and estrogen in the control of bone remodeling. Kimble RB. **Alcohol Clin Exp Res** 1997 May; 21(3):385–91 (85 ref.)
No trend toward a spontaneous improvement of hyperparathyroidism and high bone turnover in normocalcemic long–term renal transplant recipients. Dumoulin G, et al. **Am J Kidney Dis** 1997 May;29(5):746–53
Biochemical markers of bone remodeling. Kleerekoper M. **Am J Med Sci** 1996 Dec;312(6):270–7 (35 ref.)
Monocyte recruitment and expression of monocyte chemoattractant protein–1 are developmentally regulated in remodeling bone in the mouse. Volejnikova S, et al. **Am J Pathol** 1997 May;150(5):1711–21
Lower molar and incisor displacement associated with mandibular remodeling. Baumrind S, et al. **Angle Orthod** 1997;67(2):93–102
Observations of convergence and uniqueness of node–based bone remodeling simulations. Fischer KJ, et al. **Ann Biomed Eng** 1997 Mar–Apr;25(2):261–8
Calvarial deformity and remodeling following prolonged scalp expansion in a child. Calobrace MB, et al. **Ann Plast Surg** 1997 Aug;39(2):186–9
The mechanical or metabolic function of secondary osteonal bone in the monkey Macaca fascicularis. Bouvier M, et al. **Arch Oral Biol** 1996 Oct;41(10):941–50
Bone biology. Ng KW, et al. **Baillieres Clin Endocrinol Metab** 1997 Apr;11(1):1–22 (104 ref.)
Mechanical and electrical interactions in bone remodeling. Spadaro JA. **Bioelectromagnetics** 1997;18(3):193–202 (78 ref.)
Bone mass and bone turnover in power athletes, endurance athletes, and controls: a 12–month longitudinal study. Bennell KL, et al. **Bone** 1997 May;20(5):477–84
The response in spinal bone mass to tibolone treatment is related to bone turnover in elderly women. Bjarnason NH, et al. **Bone** 1997 Feb;20(2):151–5
Short–term immobilization–induced cancellous bone loss is limited to regions undergoing high turnover and/or modeling in mature rats. Shen V, et al. **Bone** 1997 Jul; 21(1):71–8
Quantification of remodeling parameter sensitivity––assessed by a computer simulation model. Thomsen JS, et al. **Bone** 1996 Nov;19(5):505–11
Comparison of bone and total alkaline phosphatase activity on bone turnover during menopause and in patients with established osteoporosis. Takahashi M, et al. **Clin Endocrinol (Oxf)** 1997 Aug;47(2):177–83
Morphology and matrix composition during early tendon to bone healing. Liu SH, et al. **Clin Orthop** 1997 Jun; (339):253–60
Stimulation of systemic bone formation induced by experimental blood loss. Lucas TS, et al. **Clin Orthop** 1997 Jul;(340):267–75
Bone remodelling in monoclonal gammopathies of uncertain significance, symptomatic and nonsymptomatic myeloma. Laroche M, et al. **Clin Rheumatol** 1996 Jul;15(4):347–52
Dynamics of bone remodelling: biochemical and pathophysiological basis. de Vernejoul MC. **Eur J Clin Chem Clin Biochem** 1996 Sep;34(9):729–34 (28 ref.)
Monitoring of bone turnover biological, preanalytical and technical criteria in the assessment of biochemical markers.

Withold W. **Eur J Clin Chem Clin Biochem** 1996 Oct; 34(10):785–99 (150 ref.)

Growth hormone, insulin–like growth factors and bone remodelling. Eriksen EF, et al. **Eur J Clin Invest** 1996 Jul; 26(7):525–34 (90 ref.)

Age–related changes in the global skeletal uptake of technetium–99m methylene diphosphonate in healthy women. Carnevale V, et al. **Eur J Nucl Med** 1996 Nov; 23(11):1473–7

Basic science and clinical utility of biochemical markers of bone turnover––a Congress report. Seibel MJ, et al. **Exp Clin Endocrinol Diabetes** 1997;105(3):125–33

Serum biochemical markers of bone turnover in healthy infants and children. Tommasi M, et al. **Int J Biol Markers** 1996 Jul–Sep;11(3):159–64

Adaptive bone remodeling around oral implants under axial and nonaxial loading conditions in the dog mandible. Barbier L, et al. **Int J Oral Maxillofac Implants** 1997 Mar–Apr;12(2):215–23

Histomorphometric study of age–related changes in remodelling activity of human desmodontal bone. Jäger A. **J Anat** 1996 Oct;189 (Pt 2):257–64

Adaptive bone remodeling incorporating simultaneous density and anisotropy considerations. Jacobs CR, et al. **J Biomech** 1997 Jun;30(6):603–13

Letter to the editor. Levenston ME, et al. **J Biomech** 1996 Jan;29(1):133–5

Collagen fiber organization is related to mechanical properties and remodeling in equine bone. A comparison of two methods. Martin RB, et al. **J Biomech** 1996 Dec; 29(12):1515–21

Bone remodeling around implanted ceramics. Chang YS, et al. **J Biomed Mater Res** 1996 Jan;30(1):117–24

Different effects of phagocytosable particles during bone formation versus remodeling. Goodman S, et al. **J Biomed Mater Res** 1996 Fall;33(3):153–8

Long–term clinical consequences of stress–shielding after total hip arthroplasty without cement. Bugbee WD, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1007–12

Effect of resistance exercise training on bone formation and resorption in young male subjects assessed by biomarkers of bone metabolism. Fujimura R, et al. **J Bone Miner Res** 1997 Apr;12(4):656–62

Effects of ethnicity and age or menopause on the remodeling and turnover of iliac bone: implications for mechanisms of bone loss. Han ZH, et al. **J Bone Miner Res** 1997 Apr; 12(4):498–508

Periprosthetic bone loss and regional bone turnover in uncemented total hip arthroplasty: a prospective study using high resolution single photon emission tomography and dual–energy X–ray absorptiometry. Kröger H, et al. **J Bone Miner Res** 1997 Mar;12(3):487–92

Osteopontin deposition in remodeling bone: an osteoblast mediated event [letter; comment] McKee MD, et al. **J Bone Miner Res** 1996 Jun;11(6):873–5. Comment on: J Bone Miner Res 1995 Nov;10(11):1666–80.

Relationship of bone turnover to bone density and fractures. Melton LJ 3rd, et al. **J Bone Miner Res** 1997 Jul; 12(7):1083–91

Bone structure and turnover in the distal radius and iliac crest: a histomorphometric study. Schnitzler CM, et al. **J Bone Miner Res** 1996 Nov;11(11):1761–8

From density to structure: growing up and growing old on the surfaces of bone. Seeman E. **J Bone Miner Res** 1997 Apr;12(4):509–21 (88 ref.)

Seeking the elusive etiology of Paget disease: a progress report [editorial; comment] Siris ES. **J Bone Miner Res** 1996 Nov;11(11):1599–601. Comment on: J Bone Miner Res 1996 Nov;11(11):1602–7.

Reduced rates of skeletal remodeling are associated with increased bone mineral density during the development of peak skeletal mass. Slemenda CW, et al. **J Bone Miner Res** 1997 Apr;12(4):676–82

Vitamin D receptor alleles, bone mineral density and turnover in premenopausal Japanese women [see comments] Tokita A, et al. **J Bone Miner Res** 1996 Jul; 11(7):1003–9. Comment in: J Bone Miner Res 1997 Mar;12(3):494–5.

Short–term variations in bone remodeling biochemical markers: cyclical etidronate and alendronate effects compared. Bettica P, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3034–9

Serum vitamin D, parathyroid hormone and biochemical markers of bone turnover in normal Thai subjects. Chailurkit LO, et al. **J Med Assoc Thai** 1996 Aug; 79(8):499–504

The soft tissue cover of the mandibular condyle: age–related changes in high buoyant density proteoglycans, free tissue water and remodelling activity. Müller K, et al. **J Orofac Orthop** 1996 Oct;57(5):310–21 **(Eng, Ger)**

Biochemical and density assessment of the new bone in late remodeling after callus distraction. Lammens J, et al. **J Orthop Res** 1997 May;15(3):391–7

In vitro fatigue behavior of the equine third metacarpus: remodeling and microcrack damage analysis. Martin RB, et al. **J Orthop Res** 1996 Sep;14(5):794–801

Strength recovery in fractured sheep tibia treated with a plate or an internal fixator: an experimental study with a two–year follow–up. Tepic S, et al. **J Orthop Trauma** 1997 Jan;11(1):14–23

The reversal line may be a key modulator of osteoblast function: observations from an alveolar bone wound–healing model. Romano PR, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):143–7

Effect of ovariectomy on the local residual ridge remodeling. Jahangiri L, et al. **J Prosthet Dent** 1997 Apr;77(4):435–43

Quantitative assessment of cortical bone remodelling from routine radiographs of total hip arthroplasty. Dujardin FH, et al. **Med Eng Phys** 1996 Sep;18(6):489–94

Influence of surrounding soft tissues on onlay bone graft incorporation. Alberius P, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):22–33

Effect of prosthetic superstructure accuracy on the osteointegrated implant bone interface. Michaels GC, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Feb;83(2):198–205

4D confocal microscopy for visualisation of bone remodelling. Konijn GA, et al. **Pathol Res Pract** 1996 Jun; 192(6):566–72

Pathogenesis of the osteoporoses. Axelrod DW. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):15S–19S (16 ref.)

Biochemical markers of bone turnover in osteoporosis. Delmas PD, et al. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):31S–36S (70 ref.)

A single measurement of biochemical markers of bone turnover has limited utility in the individual person. Beck–Jensen JE, et al. **Scand J Clin Lab Invest** 1997 Jul; 57(4):351–9

Tissue transglutaminase and factor XIII in cartilage and bone remodeling. Aeschlimann D, et al. **Semin Thromb Hemost** 1996;22(5):437–43 (45 ref.)

Remodeling of vertebral bone after outer anular injury in sheep. Moore RJ, et al. **Spine** 1996 Apr 15;21(8):936–40

[Cell–cell and cell–matrix interaction in bone remodeling] Nakamura H, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 Nov;70(11):740–50 (30 ref.) **(Jpn)**

[Cellular basis of bone tissue development] Rosselot G, et al. **Rev Med Chil** 1996 Aug;124(8 Suppl):15–20 (25 ref.) **(Spa)**

RADIATION EFFECTS

[Use of allogeneic cortical bone for femoral defect repair in combination with cemented hip total endoprosthesis––an experimental study of dogs] Ott K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:459–64 (Eng. Abstr.) **(Ger)**

BONE REPLACEMENT MATERIALS see **BONE SUBSTITUTES**

BONE RESORPTION

Effects of osteoclastic resorption on bone surface ion composition. Bushinsky DA, et al. **Am J Physiol** 1996 Oct; 271(4 Pt 1):C1025–31

Low NO concentrations inhibit osteoclast formation in mouse marrow cultures by cGMP–dependent mechanism. Holliday LS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F283–91

Comparison of biochemical markers of bone resorption in patients with metabolic and malignant bone diseases. Withold W, et al. **Ann Clin Biochem** 1996 Sep;33 (Pt 5):421–7

Sequential study of bone mineral density in patients with systemic lupus erythematosus [letter] Formiga F, et al. **Ann Rheum Dis** 1996 Nov;55(11):857

Concanavalin A directly stimulates bone–resorbing activity of osteoclasts and their gene expression of cathepsin K/OC–2. Kakudo S, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):600–4

The regulation of pHi in osteoclasts is dependent on the culture substrate and on the stage of the resorption cycle. Lehenkari PP, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):838–44

A novel culture system to generate osteoclasts and bone resorption using porcine bone marrow cells: role of M–CSF. Scheven BA, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):231–5

Regulation of osteoclastic bone resorption by glucose. Williams JP, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):646–51

A histomorphometric comparison of the effects of heparin and low–molecular–weight heparin on cancellous bone in rats. Muir JM, et al. **Blood** 1997 May 1;89(9):3236–42

Low bone mass and fast rate of bone loss at menopause: equal risk factors for future fracture: a 15–year follow–up study. Riis BJ, et al. **Bone** 1996 Jul;19(1):9–12

Comparative evaluation of markers of bone resorption in patients with breast cancer–induced osteolysis before and after bisphosphonate therapy. Body JJ, et al. **Br J Cancer** 1997;75(3):408–12

Short–term effects of dietary sodium intake on bone metabolism in postmenopausal women measured using urinary deoxypyridinoline excretion. Lietz G, et al. **Br J Nutr** 1997 Jul;78(1):73–82

Inflammatory response to implant particulates in a macrophage/osteoblast coculture model. Horowitz SM, et al. **Calcif Tissue Int** 1996 Nov;59(5):392–6

Insulin–like growth factor I does not stimulate bone resorption in cultured neonatal mouse calvarial bones. Jonsson KB, et al. **Calcif Tissue Int** 1996 Nov;59(5):366–70

A human homolog of the 150 kD avian osteoclast membrane antigen related to superoxide dismutase and essential for bone resorption is induced by developmental agents and opposed by estrogen in FLG 29.1 cells. Khalkhali–Ellis Z, et al. **Calcif Tissue Int** 1997 Feb;60(2):187–93

Age–related cortical bone loss at the metacarpal. Maggio D, et al. **Calcif Tissue Int** 1997 Jan;60(1):94–7

Comparison of analytical performance and biological variability of three bone resorption assays. Ju HS, et al. **Clin Chem** 1997 Sep;43(9):1570–6

Reduced bone resorption in toothless (osteopetrotic) rats––an abnormality of osteoblasts related to their inability to activate osteoclast activity in vitro. Hermey DC, et al. **Connect Tissue Res** 1996;35(1–4):273–8

Ca2+ or phorbol ester but not inflammatory stimuli elevate inducible nitric oxide synthase messenger ribonucleic acid and nitric oxide (NO) release in avian osteoclasts: autocrine NO mediates Ca2+–inhibited bone resorption. Sunyer T, et al. **Endocrinology** 1997 May;138(5):2148–62

Lower serum 25–hydroxyvitamin D is associated with increased bone resorption markers and lower bone density at the proximal femur in normal females: a population–based study. Scharla SH, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):289–92

Reduced bone density in patients with inflammatory bowel disease. Bjarnason I, et al. **Gut** 1997 Feb;40(2):228–33

Bacterial porins stimulate bone resorption. Meghji S, et al. **Infect Immun** 1997 Apr;65(4):1313–6

Porphyromonas gingivalis lipopolysaccharide–stimulated bone resorption via CD14 is inhibited by broad–spectrum antibiotics. Miyata Y, et al. **Infect Immun** 1997 Sep; 65(9):3513–9

Stimulation of interleukin–11 production from osteoblast–like cells by transforming growth factor–beta and tumor cell factors. Morinaga Y, et al. **Int J Cancer** 1997 May 2; 71(3):422–8

Transepidermal migration of resorbing bone fragments. Boyd AS, et al. **Int J Dermatol** 1996 Dec;35(12):884–5

An analysis of a retrieved Prodigy femoral prosthesis. Moon KH, et al. **J Arthroplasty** 1996 Aug;11(5):629–36

Initiation of osteoclast bone resorption by interstitial collagenase. Holliday LS, et al. **J Biol Chem** 1997 Aug 29;272(35):22053–8

Characterization of the osteoclast ruffled border chloride channel and its role in bone resorption. Schlesinger PH, et al. **J Biol Chem** 1997 Jul 25;272(30):18636–43

Activation of osteoclast–mediated bone resorption by the supernatant from a rabbit synovial cell line in response to polyethylene particles. Kim KJ, et al. **J Biomed Mater Res** 1996 Sep;32(1):3–9

Osteoclastic superoxide production and bone resorption: stimulation and inhibition by modulators of NADPH oxidase. Darden AG, et al. **J Bone Miner Res** 1996 May; 11(5):671–5

Burn–associated bone disease in sheep: roles of immobilization and endogenous corticosteroids. Klein GL, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):518–21

Variable effects of tyrosine kinase inhibitors on avian osteoclastic activity and reduction of bone loss in ovariectomized rats. Blair HC, et al. **J Cell Biochem** 1996 Jun 15;61(4):629–37

H1 and H2 histamine receptors modulate osteoclastic resorption by different pathways: evidence obtained by using receptor antagonists in a rat synchronized resorption model. Dobigny C, et al. **J Cell Physiol** 1997 Oct; 173(1):10–8

Endocytic pathway from the basal plasma membrane to the ruffled border membrane in bone–resorbing osteoclasts. Palokangas H, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1767–80

Regulation of sodium–dependent phosphate transport in osteoclasts. Gupta A, et al. **J Clin Invest** 1997 Aug 1; 100(3):538–49

New biochemical markers of bone resorption derived from collagen breakdown in the study of postmenopausal osteoporosis. Guerrero R, et al. **Osteoporos Int** 1996; 6(4):297–302

Labial incompetence: a marker for progressive bone resorption in Silastic chin augmentation [letter] Barnett MP. **Plast Reconstr Surg** 1997 Aug;100(2):553–4

Rapid spinal trabecular bone loss in female patients with ileitis terminalis Crohn and additional sacroiliac joint inflammation. Teichmann J, et al. **Rheumatol Int** 1997; 17(2):45–8

Trafficking of matrix collagens through bone–resorbing osteoclasts [see comments] Nesbitt SA, et al. **Science** 1997 Apr 11;276(5310):266–9. Comment in: Science 1997 Apr 11;276(5310):219–20.

Removal of osteoclast bone resorption products by transcytosis [see comments] Salo J, et al. **Science** 1997 Apr 11;276(5310):270–3. Comment in: Science 1997 Apr 11;276(5310):219–20.

Parathyroid function and bone metabolic markers in primary and secondary hyperparathyroidism. Tanaka Y, et al. **Semin Surg Oncol** 1997 Mar–Apr;13(2):125–33

[Interrelations of the calcium concentration in breast milk with maternal intake of cow's milk and milk products, bone resorption and bone mineral density during lactation] Yoneyama K, et al. **Nippon Eiseigaku Zasshi** 1997 Jan; 51(4):770–9 (Eng. Abstr.) **(Jpn)**

[Mechanism of osteoclastic bone loss of articular cartilages in patients with arthritis] Tanaka S. **Ryumachi** 1997 Apr; 37(2):163–4 **(Jpn)**

BONE RESORPTION

BLOOD

Skeletal responsiveness to thyroid hormone is not altered at menopause. Langdahl BL, et al. **Bone** 1996 Nov; 19(5):557–64

Circadian variation in bone resorption is not related to serum cortisol. Schlemmer A, et al. **Bone** 1997 Jul;21(1):83–8

Serum pyridinoline crosslinks as markers of tumour–induced bone resorption. Nemoto R, et al. **Br J Urol** 1997 Aug; 80(2):274–80

Overnight suppression of parathyroid hormone and bone resorption markers by active absorbable algae calcium. A double–blind crossover study. Fujita T, et al. **Calcif Tissue Int** 1997 Jun;60(6):506–12

Measurement of bone degradation products in serum using antibodies reactive with an isomerized form of an 8 amino acid sequence of the C–telopeptide of type I collagen. Bonde M, et al. **J Bone Miner Res** 1997 Jul;12(7):1028–34

Circulating levels of interleukin–6 and tumor necrosis factor–alpha are elevated in primary hyperparathyroidism and correlate with markers of bone resorption—a clinical research center study [see comments] Grey A, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3450–4. Comment in: J Clin Endocrinol Metab 1996 Oct;81(10):3448–9.

CHEMICALLY INDUCED

Macrophage colony–stimulating factor induces substantial osteoclast generation and bone resorption in human bone marrow cultures. Sarma U, et al. **Blood** 1996 Oct 1; 88(7):2531–40

Hydrogen peroxide, but not superoxide, stimulates bone resorption in mouse calvariae. Fraser JH, et al. **Bone** 1996 Sep;19(3):223–6

Change in C–terminal cross–linking domain of type I collagen in urine, a new marker of bone resorption, during and after gonadotropin–releasing hormone agonist administration. Taga M, et al. **Eur J Endocrinol** 1997 Aug;137(2):167–71

Radio–opaque agents in bone cement increase bone resorption. Sabokbar A, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):129–34

Stimulation of neonatal mouse calvarial bone resorption by the glucocorticoids hydrocortisone and dexamethasone. Conaway HH, et al. **J Bone Miner Res** 1996 Oct; 11(10):1419–29

Leukotriene B4 stimulates osteoclastic bone resorption both in vitro and in vivo. Garcia C, et al. **J Bone Miner Res** 1996 Nov;11(11):1619–27

Effects of synthetic peptido–leukotrienes on bone resorption in vitro. Garcia C, et al. **J Bone Miner Res** 1996 Apr; 11(4):521–9

High extracellular calcium stimulates osteoclast–like cell formation and bone–resorbing activity in the presence of osteoblastic cells. Kaji H, et al. **J Bone Miner Res** 1996 Jul;11(7):912–20

Prostaglandin E2 stimulates osteoclast–like cell formation and bone–resorbing activity via osteoblasts: role of cAMP–dependent protein kinase. Kaji H, et al. **J Bone Miner Res** 1996 Jan;11(1):62–71

Transforming growth factor–beta stimulates bone resorption in neonatal mouse calvariae by a prostaglandin–unrelated but cell proliferation–dependent pathway. Lerner UH. **J Bone Miner Res** 1996 Nov;11(11):1628–39

The effect of androgen treatment on bone metabolism in female–to–male transsexuals. Lips P, et al. **J Bone Miner Res** 1996 Nov;11(11):1769–73

Colony stimulating factor–1 plays a role in osteoclast formation and function in bone resorption induced by parathyroid hormone and parathyroid hormone–related protein. Weir EC, et al. **J Bone Miner Res** 1996 Oct; 11(10):1474–81

Parathyroid hormone–induced resorption in fetal rat limb bones is associated with production of the metalloproteinases collagenase and gelatinase B. Witty JP, et al. **J Bone Miner Res** 1996 Jan;11(1):72–8

High dose medroxyprogesterone, rates of bone resorption, and changes in spinal bone density [letter; comment] Prior JC. **J Clin Endocrinol Metab** 1996 Dec;81(12):4500–1. Comment on: J Clin Endocrinol Metab 1996 Mar;81(3):1014–7.

Angiotensin II is generated from angiotensin I by bone cells and stimulates osteoclastic bone resorption in vitro. Hatton R, et al. **J Endocrinol** 1997 Jan;152(1):5–10

In vitro and in vivo effects of tetrakisphosphonates on bone resorption, tumor osteolysis, ectopic calcification, and macrophages. Van Gelder JM, et al. **J Pharm Sci** 1997 Mar;86(3):283–9

Is there cyclosporine A–induced bone disease? Callegari PE. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):103S–106S (19 ref.)

Glucocorticoid–induced osteoporosis: prevention and treatment. Werth VP. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):84S–88S (44 ref.)

Effects of cadmium on bone: an in vivo model for the early response. Wilson AK, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):68–73

Effects of cadmium on osteoclast formation and activity in vitro. Wilson AK, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):451–60

COMPLICATIONS

Effect of three years of oral alendronate treatment in postmenopausal women with osteoporosis. Tucci JR, et al. **Am J Med** 1996 Nov;101(5):488–501

DIAGNOSIS

Diagnosis and management of condylar resorption. Huang YL, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):114–9; discussion 119–20

[Effect of clodronate in patients with multiple myeloma. Evaluation of specific markers of bone resorption] Slabý J, et al. **Cas Lek Cesk** 1997 Jan 22;136(2):57–60 (Eng. Abstr.) **(Cze)**

DRUG THERAPY

Effect of three years of oral alendronate treatment in postmenopausal women with osteoporosis. Tucci JR, et al. **Am J Med** 1996 Nov;101(5):488–501

Synthesis and bone resorption effect of alkoxy–substituted xanthones. Pifferi G, et al. **Arch Pharm (Weinheim)** 1997 Jul;330(7):233–4

Time–dependent changes in biochemical bone markers and serum cholesterol in ovariectomized rats: effects of raloxifene HCl, tamoxifen, estrogen, and alendronate. Frolik CA, et al. **Bone** 1996 Jun;18(6):621–7

The effect on bone mass and bone markers of different doses of ibandronate: a new bisphosphonate for prevention and treatment of postmenopausal osteoporosis: a 1–year, randomized, double–blind, placebo–controlled dose–finding study. Ravn P, et al. **Bone** 1996 Nov; 19(5):527–33

Effect of alendronate treatment on the osteoclastogenic potential of bone marrow cells in mice. van Beek ER, et al. **Bone** 1997 Apr;20(4):335–40

Pamidronate in the treatment of osteolytic bone lesions in multiple myeloma patients—the American experience. Berenson J. **Br J Clin Pract Symp Suppl** 1996 Sep;87:5–7; discussion 13–4

Zoledronate in the treatment of osteolytic bone metastases. Lipton A. **Br J Clin Pract Symp Suppl** 1996 Sep;87:21; discussion 22

Effects of orally administered bisphosphonates on bone loss in a disuse osteopenia model involving the rat. Mian M, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):619–24

The analgesic drug buprenorphine inhibits osteoclastic bone resorption in vitro, but is proinflammatory in rat adjuvant arthritis. Hall TJ, et al. **Inflamm Res** 1996 Jun;45(6):299–302

A comparison of clodronate and indomethacin in the treatment of adjuvant arthritis. Osterman T, et al. **Inflamm Res** 1997 Mar;46(3):79–85

Androgen supplementation in eugonadal men with osteoporosis: effects of six months' treatment on markers of bone formation and resorption. Anderson FH, et al. **J Bone Miner Res** 1997 Mar;12(3):472–8

Lack of an effect of sodium zeolite A on rat tibia histomorphometry. Firling CE, et al. **J Bone Miner Res** 1996 Feb;11(2):254–63

Inhibition of bone resorption by pamidronate cannot restore normal gain in cortical bone mass and strength in tail–suspended rapidly growing rats. Kodama Y, et al. **J Bone Miner Res** 1997 Jul;12(7):1058–67

The effect of systemically administered PDGF–BB on the rodent skeleton. Mitlak BH, et al. **J Bone Miner Res** 1996 Feb;11(2):238–47

A new model for the regulation of bone resorption, with particular reference to the effects of bisphosphonates. Parfitt AM, et al. **J Bone Miner Res** 1996 Feb;11(2):150–9 (70 ref.)

Administration of the bisphosphonate ibandronate (BM 21.0955) by intravenous bolus injection. Pecherstorfer M, et al. **J Bone Miner Res** 1996 May;11(5):587–93

Dissociation of binding and antiresorptive properties of hydroxybisphosphonates by substitution of the hydroxyl with an amino group. Van Beek E, et al. **J Bone Miner Res** 1996 Oct;11(10):1492–7

Antithetic effects of ryanodine and ruthenium red on osteoclast–mediated bone resorption and intracellular calcium concentrations. Ritchie CK, et al. **J Cell Biochem** 1995 Oct;59(2):281–9

Prediction of the outcome of treatment of Paget's disease of bone with bisphosphonates from short–term changes in the rate of bone resorption. Papapoulos SE, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3993–7

Sublingual testosterone replacement improves muscle mass and strength, decreases bone resorption, and increases bone formation markers in hypogonadal men—a clinical research center study. Wang C, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3654–62

Evaluation of new bone resorption markers in a randomized comparison of pamidronate or clodronate for hypercalcemia of malignancy. Vinholes J, et al. **J Clin Oncol** 1997 Jan;15(1):131–8

Treating bone metastases: sparing the patient needless pain [news] McBride G. **J Natl Cancer Inst** 1997 Mar 19; 89(6):418–9

Effects of bisphosphonate (pamidronate) on bone resorption resulting from metastasis of a squamous cell carcinoma: report of an autopsy case and evaluation of bone resorbing activity in an experimental animal model. Hiraga T, et al. **J Oral Maxillofac Surg** 1996 Nov;54(11):1327–33

Infantile hypophosphatasia: treatment options to control hypercalcemia, hypercalciuria, and chronic bone demineralization. Barcia JP, et al. **J Pediatr** 1997 May; 130(5):825–8

Effect of FR133605, a novel cytokine suppressive agent, on bone and cartilage destruction in adjuvant arthritic rats. Yamamoto N, et al. **J Rheumatol** 1996 Oct;23(10):1778–83

Tumor–induced hypercalcemia in a patient with extensive soft tissue sarcoma: effects of bisphosphonate therapy and surgery. Oleffe V, et al. **J Surg Oncol** 1996 Oct;63(2):125–9 (25 ref.)

Comparative study on the effect of calcium channel blockers on basal and parathyroid hormone–induced bone resorption in vitro. Redlich K, et al. **Pharmacol Toxicol** 1997 Jun; 80(6):262–5

[Effect of clodronate in patients with multiple myeloma. Evaluation of specific markers of bone resorption] Slabý J, et al. **Cas Lek Cesk** 1997 Jan 22;136(2):57–60 (Eng. Abstr.) **(Cze)**

[Bisphosphonates in radiotherapy] **Radiologe** 1997 Jan;37(1 Suppl):1–4 **(Ger)**

ENZYMOLOGY

Cathepsin K antisense oligodeoxynucleotide inhibits osteoclastic bone resorption. Inui T, et al. **J Biol Chem** 1997 Mar 28;272(13):8109–12

Prostaglandin E2 stimulates osteoclast–like cell formation and bone–resorbing activity via osteoblasts: role of cAMP–dependent protein kinase. Kaji H, et al. **J Bone Miner Res** 1996 Jan;11(1):62–71

Characterization and cellular distribution of the osteoclast ruffled membrane vacuolar H+–ATPase B–subunit using isoform–specific antibodies. Mattsson JP, et al. **J Bone Miner Res** 1997 May;12(5):753–60

Expression and phorbol ester–induced down–regulation of protein kinase C isozymes in osteoblasts. Sanders JL, et al. **J Bone Miner Res** 1996 Dec;11(12):1862–72

Parathyroid hormone–induced resorption in fetal rat limb bones is associated with production of the metalloproteinases collagenase and gelatinase B. Witty JP, et al. **J Bone Miner Res** 1996 Jan;11(1):72–8

ETIOLOGY

Bone resorption and serum levels of vitamin D metabolites in the hypophosphataemic rat. Malcolm A, et al. **Aust Dent J** 1997 Apr;42(2):118–20

Polymorphonuclear leukocyte–mediated bone degradation and influence of blood mononuclear cells on the mouse calvarial model. Wang YH, et al. **Chin Med J (Engl)** 1996 Sep;109(9):711–9

The Otto Aufranc Award. Skeletal response to well fixed femoral components inserted with and without cement. Maloney WJ, et al. **Clin Orthop** 1996 Dec;(333):15–26

Mechanism and regulation of bone resorption by osteoclasts. Katunuma N. **Curr Top Cell Regul** 1997;35:179–92 (12 ref.)

Prosthesis misfit and marginal bone loss in edentulous implant patients. Jemt T, et al. **Int J Oral Maxillofac Implants** 1996 Sep–Oct;11(5):620–5

Advanced glycation end products enhance osteoclast–induced bone resorption in cultured mouse unfractionated bone cells and in rats implanted subcutaneously with devitalized bone particles. Miyata T, et al. **J Am Soc Nephrol** 1997 Feb;8(2):260–70

Changes in femoral cortical dimensions after uncemented revision hip arthroplasty. Radiological results with the porous–coated bi–metric femoral stem prosthesis in 15 asymptomatic cases. Adolphson P. **J Arthroplasty** 1996 Aug;11(5):572–81

Stress shielding after total knee replacement may cause bone resorption in the distal femur. Van Lenthe GH, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):117–22

Regional responsiveness of the tibia to intermittent administration of parathyroid hormone as affected by skeletal unloading. Halloran BP, et al. **J Bone Miner Res** 1997 Jul;12(7):1068–74

Dietary salt, urinary calcium, and bone loss [see comments] Massey LK, et al. **J Bone Miner Res** 1996 Jun;11(6):731–6 (50 ref.). Comment in: J Bone Miner Res 1997 Feb;12(2):298–9.

Idiopathic hypercalciuria and osteoporosis—distinct clinical manifestations of increased cytokine–induced bone resorption? [editorial; comment] Pacifici R. **J Clin Endocrinol Metab** 1997 Jan;82(1):29–31. Comment on: J Clin Endocrinol Metab 1997 Jan;82(1):32–8.

Calciotropic hormones and markers of bone remodeling in age–related (type II) femoral neck osteoporosis: alterations consistent with secondary hyperparathyroidism–induced bone resorption. Boonen S, et al. **J Gerontol A Biol Sci Med Sci** 1997 Sep;52(5):M286–93

Humoral factors of ascites sarcoma 180 stimulate osteoblastic UMR 106–01 cell proliferation and bone resorption via signal transduction pathways, which are clearly different from those of parathyroid hormone. Suzuki K, et al. **Jpn J Pharmacol** 1996 Oct;72(2):149–59

Hyperparathyroidism and bone loss in renal graft recipients. Ittel TH, et al. **Kidney Blood Press Res** 1997;20(3):157–62 (72 ref.)

Bone resorption and mRNA expression of IL–6 and IL–6 receptor in patients with renal osteodystrophy. Langub MC Jr, et al. **Kidney Int** 1996 Aug;50(2):515–20

Increased urinary calcium excretion potentiates bone turnover in oophorectomized rats. Mason RA, et al. **Miner Electrolyte Metab** 1997;23(1):38–42

Advanced glycation of beta 2–microglobulin in the pathogenesis of bone lesions in dialysis–associated

amyloidosis. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 3:86–90 (37 ref.)

Labial incompetence: a marker for progressive bone resorption in silastic chin augmentation. Matarasso A, et al. **Plast Reconstr Surg** 1996 Nov;98(6):1007–14; discussion 1015

Role of estrogen deficiency in pathogenesis of secondary hyperparathyroidism and increased bone resorption in elderly women. McKane WR, et al.
Proc Assoc Am Physicians 1997 Mar;109(2):174–80

Demineralization in tetraplegic and paraplegic man over time. Szollar SM, et al. **Spinal Cord** 1997 Apr;35(4):223–8

[An experimental study of the effects of stress-relaxation plate on bone remodeling] Dai M, et al.
Chung Hua Wai Ko Tsa Chih 1995 Nov;33(11):698–700 (Eng. Abstr.) **(Chi)**

GENETICS

Bone resorption and response to calcium-regulating hormones in the absence of tissue or urokinase plasminogen activator or of their type 1 inhibitor. Leloup G, et al. **J Bone Miner Res** 1996 Aug;11(8):1146–57

METABOLISM

Resorption kinetics of osseous substitute: natural coral and synthetic hydroxyapatite. Braye F, et al. **Biomaterials** 1996 Jul;17(13):1345–50

Osteoclastic resorption of calcium phosphate ceramics with different hydroxyapatite/beta-tricalcium phosphate ratios. Yamada S, et al. **Biomaterials** 1997 Aug;18(15):1037–41

Osteoclasts generate cross-linked collagen N-telopeptides (NTx) but not free pyridinolines when cultured on human bone. Apone S, et al. **Bone** 1997 Aug;21(2):129–36

Effects of calcitonin and parathyroid hormone on the distribution of F-actin in the clear zone of osteoclasts in vivo. Kuroda H, et al. **Bone** 1996 Aug;19(2):115–20

Bone turnover in neonates: changes of urinary excretion rate of collagen type I cross-linked peptides during the first days of life and influence of gestational age. Mora S, et al. **Bone** 1997 Jun;20(6):563–6

Cytokines expressed in multinucleated cells: Paget's disease and giant cell tumors versus normal bone. Mills BG, et al. **Calcif Tissue Int** 1997 Jul;61(1):16–21

Tumor necrosis factor enhances parathyroid hormone-related protein-induced hypercalcemia and bone resorption without inhibiting bone formation in vivo. Uy HL, et al. **Cancer Res** 1997 Aug 1;57(15):3194–9

Biochemical bone markers in patients with multiple myeloma. Nawawi H, et al. **Clin Chim Acta** 1996 Sep 30; 253(1–2):61–77

Bone mineral density in pediatric patients after renal transplantation. Behnke B, et al. **Clin Nephrol** 1996 Jul; 46(1):24–9

Pyridinium cross-links in multiple myeloma: correlation with clinical parameters and use for monitoring of intravenous clodronate therapy—a pilot study of the German Myeloma Treatment Group (GMTG). Peest D, et al.
Eur J Cancer 1996 Nov;32A(12):2053–7

Bone-turnover metabolites as clinical markers of bone metastasis in patients with prostatic carcinoma. Takeuchi S, et al. **Int J Urol** 1997 Jul;4(4):368–73

Bilateral tibial marrow ablation in rats induces a rapid hypercalcemia arising from extratibial bone resorption inhibitable by methylprednisolone or deflazacort. Magnuson SK, et al. **J Bone Miner Res** 1997 Feb; 12(2):200–9

Bone-resorbing osteoclasts reveal a dynamic division of basal plasma membrane into two different domains. Salo J, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):301–7

An antagonist of osteoclast integrins prevents experimental osteoporosis [editorial; comment] Anderson HC.
J Clin Invest 1997 May 1;99(9):2059. Comment on: J Clin Invest 1997 May 1;99(9):2284–92.

Pharmacological profile of SB 203580, a selective inhibitor of cytokine suppressive binding protein/p38 kinase, in animal models of arthritis, bone resorption, endotoxin shock and immune function. Badger AM, et al.
J Pharmacol Exp Ther 1996 Dec;279(3):1453–61

Aspirin and nonsteroidal antiinflammatory drug use in elderly women: effects on a marker of bone resorption. The Study of Osteoporotic Fractures Research Group. Lane NE, et al. **J Rheumatol** 1997 Jun;24(6):1132–6

Osteoclasts constitutively express regulators of bone resorption: an immunohistochemical and in situ hybridization study. O'Keefe RJ, et al. **Lab Invest** 1997 Apr;76(4):457–65

c-Cbl is downstream of c-Src in a signalling pathway necessary for bone resorption. Tanaka S, et al. **Nature** 1996 Oct 10;383(6600):528–31

Possible involvement of advanced glycation end-products in bone resorption. Miyata T, et al.
Nephrol Dial Transplant 1996;11 Suppl 5:54–7 (21 ref.)

Molecular mechanisms of bone resorption: therapeutic implications. Baron R. **Rev Rhum Engl Ed** 1996 Nov; 63(10):633–8 (34 ref.)

[In vitro culture of neonatal mouse calvaria as a model for study of bone resorption] Zhang WZ, et al.
Chung Hua Kou Chiang Hsueh Tsa Chih 1996 Jan; 31(1):48–50 (Eng. Abstr.) **(Chi)**

MICROBIOLOGY

Porphyromonas gingivalis fimbria-stimulated bone resorption is inhibited through binding of the fimbriae to fibronectin. Kawata Y, et al. **Infect Immun** 1997 Feb;65(2):815–7

PATHOLOGY

Human osteoclast formation and bone resorption by monocytes and synovial macrophages in rheumatoid arthritis. Fujikawa Y, et al. **Ann Rheum Dis** 1996 Nov; 55(11):816–22

Enhancement by conditioned medium of stretched calvarial bone cells of the osteoclast-like cell formation induced by parathyroid hormone in mouse bone marrow cultures. Soma S, et al. **Arch Oral Biol** 1997 Mar;42(3):205–11

A scanning electron microscopic study of trabeculae in osteoporotic femoral head. Chai B, et al.
Chin Med J (Engl) 1996 May;109(5):399–403

Osteoclastic resorption of Haversian systems in cortical bone of femoral neck in aged women. A scanning electron microscopic study. Chai B, et al. **Chin Med J (Engl)** 1996 Sep;109(9):705–10

Incidence of dehiscences in the fallopian canal. Perez B, et al. **Int J Pediatr Otorhinolaryngol** 1997 May 4;40(1):51–60

Quantification of the collagenolytic activity of isolated osteoclasts by enzyme-linked immunosorbent assay. Foged NT, et al. **J Bone Miner Res** 1996 Feb;11(2):226–37

Osteoclasts, macrophages, and the molecular mechanisms of bone resorption. Teitelbaum SL, et al. **J Leukoc Biol** 1997 Apr;61(4):381–8 (67 ref.)

Histomorphometric analysis of osteoclastic resorption in bone directly invaded by gingival squamous cell carcinoma. Semba I, et al. **J Oral Pathol Med** 1996 Sep;25(8):429–35

Fluoridated drinking water, oestrogen therapy and residual ridge resorption. Klemetti E, et al. **J Oral Rehabil** 1997 Jan;24(1):47–51

Osteoclasts are capable of particle phagocytosis and bone resorption. Wang W, et al. **J Pathol** 1997 May;182(1):92–8

Resorption of mandibular canal wall in the edentulous aged population. Xie Q, et al. **J Prosthet Dent** 1997 Jun; 77(6):596–600

[Cell biology of osteoclasts and molecular mechanisms of bone resorption] Amling M, et al. **Pathologe** 1996 Sep; 17(5):358–67 (76 ref.) (Eng. Abstr.) **(Ger)**

[Investigation of tibial bones of the rats exposed on board "Spacelab-2":histomorphometric analysis] Durnova GN, et al. **Aviakosm Ekolog Med** 1996;30(1):21–6 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Decreased potassium stimulates bone resorption. Bushinsky DA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F774–80

The performance and utility of biochemical markers of bone turnover: do we know enough to use them in clinical practice? Blumsohn A, et al. **Ann Clin Biochem** 1997 Sep; 34 (Pt 5):449–59 (71 ref.)

Control mechanisms in bone resorption: 240 years after John Hunter. Meikle MC. **Ann R Coll Surg Engl** 1997 Jan; 79(1):20–7 (27 ref.)

Heparin fails to potentiate the effects of IL-1 beta-mediated bone resorption of fetal rat long bones in vitro. Panagakos FS, et al. **Biochimie** 1995;77(12):915–8

Beta 1 integrins and osteoclast function: involvement in collagen recognition and bone resorption. Helfrich MH, et al. **Bone** 1996 Oct;19(4):317–28

Pyridinium crosslinks of collagen as a marker of bone resorption rates in children and adolescents: normal values and clinical application. Marowska J, et al. **Bone** 1996 Dec; 19(6):669–77

Mechanisms of cytokine induced bone resorption: role of nitric oxide, cyclic guanosine monophosphate, and prostaglandins. Ralston SH, et al. **Bone** 1996 Jul;19(1):29–33

High bone turnover is associated with low bone mass in both pre- and postmenopausal women. Ravn P, et al. **Bone** 1996 Sep;19(3):291–8

Time responses of cancellous and cortical bones to sciatic neurectomy in growing female rats. Zeng QQ, et al.
Bone 1996 Jul;19(1):13–21

Prognostic value of contrast enhanced Gd-DTPA MRI for development of bone erosive changes in rheumatoid arthritis. Jevtic V, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:26–30

Cortical bone resorption in osteoporosis. Aguado F, et al.
Calcif Tissue Int 1997 Apr;60(4):323–6

Local bone turnover in the metaphysis of the proximal tibia and the lumbar vertebra during the early periods after ovariectomy in rats. Yamaura M, et al.
Calcif Tissue Int 1996 Jan;58(1):52–9

Effects of particles on fibroblast proliferation and bone resorption in vitro. Shanbhag AS, et al. **Clin Orthop** 1997 Sep;(342):205–17

Mechanism and regulation of bone resorption by osteoclasts. Katunuma N. **Curr Top Cell Regul** 1997;35:179–92 (12 ref.)

Discrimination ability of pyridinoline crosslinks related markers for bone resorption in postmenopause and osteoporosis. Takahashi M, et al. **Endocr Res** 1997 Feb–May;23(1–2):105–17

Insulin-like growth factor system components and the coupling of bone formation to resorption. Mohan S, et al.
Horm Res 1996;45 Suppl 1:59–62 (15 ref.)

Advanced glycation end products enhance osteoclast-induced bone resorption in cultured mouse unfractionated bone cells and in rats implanted subcutaneously with devitalized bone particles. Miyata T, et al. **J Am Soc Nephrol** 1997 Feb;8(2):260–70

The predictive value of stress shielding for quantification of adaptive bone resorption around hip replacements. Kuiper JH, et al. **J Biomech Eng** 1997 Aug;119(3):228–31

Resorption of, and bone formation from, new beta-tricalcium phosphate-monocalcium phosphate cements: an in vivo study. Ohura K, et al. **J Biomed Mater Res** 1996 Feb; 30(2):193–200

Resistance to bone resorbing effects of PTH in black women. Cosman F, et al. **J Bone Miner Res** 1997 Jun;12(6):958–66

Advanced glycation endproducts stimulate interleukin-6 production by human bone-derived cells. Takagi M, et al.
J Bone Miner Res 1997 Mar;12(3):439–46

Prediction of the outcome of treatment of Paget's disease of bone with bisphosphonates from short-term changes in the rate of bone resorption. Papapoulos SE, et al.
J Clin Endocrinol Metab 1996 Nov;81(11):3993–7

Evaluation of bone turnover in postmenopause, vertebral fracture, and hip fracture using biochemical markers for bone formation and resorption. Takahashi M, et al.
J Endocrinol Invest 1997 Mar;20(3):112–7

Altered load history affects periprosthetic bone loss following cementless total hip arthroplasty. Bryan JM, et al.
J Orthop Res 1996 Sep;14(5):762–8

Calculated stress-shielding in the distal femur after total knee replacement corresponds to the reported location of bone loss. Tissakht M, et al. **J Orthop Res** 1996 Sep;14(5):778–85

Interleukin-1 alpha produced in human gingival fibroblasts induces several activities related to the progression of periodontitis by direct contact. Okamatsu Y, et al.
J Periodontal Res 1996 Jul;31(5):355–64

Mechanisms of bone loss. Murray TM.
J Rheumatol Suppl 1996 Aug;45:6–10 (16 ref.)

Spontaneous correction of a traumatic kyphosis after posterior spinal fusion in an infant. Horsley MW, et al.
J Spinal Disord 1997 Jun;10(3):256–9

The osteoclast and osteoporosis. Teitelbaum SI.
Mt Sinai J Med 1996 Oct–Nov;63(5–6):399–402 (17 ref.)

Bone demineralization in cystic fibrosis: evidence of imbalance between bone formation and degradation. Baroncelli GI, et al. **Pediatr Res** 1997 Mar;41(3):397–403

PREVENTION & CONTROL

Cyclical etidronate: its effect on bone density in patients with acute spinal cord injury. Pearson EG, et al.
Arch Phys Med Rehabil 1997 Mar;78(3):269–72

Chick osteocyte-derived protein inhibits osteoclastic bone resorption. Maejima-Ikeda A, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):245–50

Concanamycin B, a vacuolar H(+)-ATPase specific inhibitor suppresses bone resorption in vitro. Woo JT, et al.
Biol Pharm Bull 1996 Feb;19(2):297–9

Effects of mechanical testing device variables on polymer composite femoral stem strains. Heiner AD, et al.
Biomaterials 1996 Dec;17(23):2211–7

Osteoblast-mediated effects of zinc on isolated rat osteoclasts: inhibition of bone resorption and enhancement of osteoclast number. Holloway WR, et al. **Bone** 1996 Aug;19(2):137–42

Long-term effects of clodronate on growing rat bone. Lepola VT, et al. **Bone** 1996 Feb;18(2):191–6

Effects of an inhibitor of cathepsin L on bone resorption in thyroparathyroidectomized and ovariectomized rats. Millest AJ, et al. **Bone** 1997 May;20(5):465–71

Antiresorptive effect of a single infusion of microgram quantities of zoledronate in Paget's disease of bone. Arden-Cordone M, et al. **Calcif Tissue Int** 1997 May; 60(5):415–8

Role of alfacalcidiol on bone quality and immunomodulation in autoimmune disease and organ transplantation. Dequeker J, et al. **Calcif Tissue Int** 1997 Jan;60(1):128–9 (14 ref.)

Prophylactic effects of 1,24,25-trihydroxyvitamin D3 on ovariectomy-induced cancellous bone loss in the rat. Erben RG, et al. **Calcif Tissue Int** 1997 May;60(5):434–40

A randomized controlled trial of salmon calcitonin to prevent bone loss in corticosteroid-treated temporal arteritis and polymyalgia rheumatica. Healey JH, et al.
Calcif Tissue Int 1996 Feb;58(2):73–80

Ovariectomy-induced bone loss can be affected by different intensities of treadmill running exercise in rats. Peng ZQ, et al. **Calcif Tissue Int** 1997 May;60(5):441–8

Prediction of bone loss rate in healthy postmenopausal women. Reginster JY, et al. **Calcif Tissue Int** 1997 Mar; 60(3):261–4

Calcitonin provides complete protection against cancellous bone loss in the femoral neck of ovariectomized rats. Shen Y, et al. **Calcif Tissue Int** 1997 May;60(5):457–61

Dietary xylitol retards the ovariectomy-induced increase of bone turnover in rats. Svanberg M, et al.
Calcif Tissue Int 1997 May;60(5):462–6

Nasal calcitonin. Silverman SL. **Endocrine** 1997 Apr; 6(2):199–202 (30 ref.)

Parathyroid hormone-related protein-(107–139) inhibits bone resorption in vivo. Cornish J, et al. **Endocrinology** 1997 Mar;138(3):1299–304

Phenothiazines are potent inhibitors of osteoclastic bone resorption. Hall TJ, et al. **Gen Pharmacol** 1996 Jul; 27(5):845–8

Gold salts inhibit osteoclastic bone resorption in vitro. Hall TJ, et al. **Inflamm Res** 1996 May;45(5):230–3

Regional responsiveness of the tibia to intermittent

administration of parathyroid hormone as affected by skeletal unloading. Halloran BP, et al. **J Bone Miner Res** 1997 Jul;12(7):1068–74

The functional block of TNF but not of IL–6 prevents bone loss in ovariectomized mice. Kimble RB, et al. **J Bone Miner Res** 1997 Jun;12(6):935–41

Antiresorptive therapy in hyperthyroid patients: longitudinal changes in bone and mineral metabolism. Jódar E, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1989–94

A peptidomimetic antagonist of the alpha(v)beta3 integrin inhibits bone resorption in vitro and prevents osteoporosis in vivo [see comments] Engleman VW, et al. **J Clin Invest** 1997 May 1;99(9):2284–92. Comment in: J Clin Invest 1997 May 1;99(9):2059–61.

Estrogen inhibits bone resorption by directly inducing apoptosis of the bone–resorbing osteoclasts. Kameda T, et al. **J Exp Med** 1997 Aug 18;186(4):489–95

Research on bone metastases quickens its pace [news] Ziegler J. **J Natl Cancer Inst** 1997 Jun 18;89(12):841–3

Phytoestrogens reduce bone loss and bone resorption in oophorectomized rats. Draper CR, et al. **J Nutr** 1997 Sep; 127(9):1795–9

Avoiding ridge resorption when using hydroxylapatite for augmentation [letter] Schaffer AB. **J Oral Maxillofac Surg** 1997 Sep;55(9):1036–7

Bisphosphonates in the treatment of bone diseases [editorial; comment] Delmas PD. **N Engl J Med** 1996 Dec 12; 335(24):1836–7. Comment on: N Engl J Med 1996 Dec 12;335(24):1785–91.

Efficacy of pamidronate in reducing skeletal complications in patients with breast cancer and lytic bone metastases. Protocol 19 Aredia Breast Cancer Study Group [see comments] Hortobagyi GN, et al. **N Engl J Med** 1996 Dec 12;335(24):1785–91. Comment in: N Engl J Med 1996 Dec 12;335(24):1836–7. Comment in: N Engl J Med 1997 May 29;336(22):1609; discussion 1610. Comment in: N Engl J Med 1997 May 29;336(22):1609–10; discussion 1610.

Bone loss after liver transplantation is not prevented by cyclical etidronate, calcium and alphacalcidol. The Liver Transplant Group, Groningen. Riemens SC, et al. **Osteoporos Int** 1996;6(3):213–8

"Have you seen this?" Bone anti–resorptive properties of bisphosphonates. Hartke J. **Toxicol Pathol** 1996 Nov–Dec; 24(6):799–800

RADIOGRAPHY

[Comparison between direct radiographic enlargement and mammography technique in detection of osseous changes of the hand skeleton in hyperparathyroidism] Müller–Miny H, et al. **Radiologe** 1996 Oct;36(10):834–9 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Bone SPECT in cholesteatoma assessment. Añó T, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):35–8

REHABILITATION

An alternative procedure for completely reduced mandibular ridges. Baron S. **J Am Dent Assoc** 1997 Aug;128(8):1140

SURGERY

Unanticipated difficult endotracheal intubation related to preexisting chin implant and mandibular condylar resorption. Boorin MR. **Anesth Analg** 1997 Mar;84(3):686–9

The use of a cementless femoral component for the management of bone loss in revision hip arthroplasty. Michelinakis E, et al. **Bull Hosp Jt Dis** 1996;55(1):28–32

Reconstruction of the severely resorbed maxilla with dental implants in the augmented maxillary sinus: a 5–year clinical investigation. Hürzeler MB, et al. **Int J Oral Maxillofac Implants** 1996 Jul–Aug;11(4):466–75

Rehabilitation of the resorbed maxilla and mandible using autogenous bone grafts and osseointegrated implants. Williamson RA. **Int J Oral Maxillofac Implants** 1996 Jul–Aug;11(4):476–88

Autogenous onlay bone grafts fixed with screw implants for the treatment of severely resorbed maxillae. Radiographic evaluation of preoperative bone dimensions, postoperative bone loss, and changes in soft–tissue profile. Nyström E, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):351–9

Cementless revision of total hip arthroplasty using the anatomic porous replacement revision prosthesis. Buoncristiani AM, et al. **J Arthroplasty** 1997 Jun; 12(4):403–15

Diagnosis and management of condylar resorption. Huang YL, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):114–9; discussion 119–20

URINE

Validation of a high–performance liquid chromatographic assay for lysylpyridinoline in urine: a potential biomarker of bone resorption. Casserly UM, et al. **Anal Biochem** 1996 Nov 15;242(2):255–60

Intra–individual variation in bone resorption markers in urine. Popp–Snijders C, et al. **Ann Clin Biochem** 1996 Jul;33 (Pt 4):347–8

Specific changes of urinary excretion of cross–linked N–telopeptides of type I collagen in pre– and postmenopausal women: correlation with other markers of bone turnover. Gorai I, et al. **Calcif Tissue Int** 1997 Apr; 60(4):317–22

Coated–tube radioimmunoassay for C–telopeptides of type I collagen to assess bone resorption. Bonde M, et al. **Clin Chem** 1996 Oct;42(10):1639–44

Standardization of pyridinium crosslinks, pyridinoline and deoxypyridinoline, for use as biochemical markers of collagen degradation. Robins SP, et al. **Clin Chem** 1996 Oct;42(10):1621–6

Change in C–terminal cross–linking domain of type I collagen in urine, a new marker of bone resorption, during and after gonadotropin–releasing hormone agonist administration. Taga M, et al. **Eur J Endocrinol** 1997 Aug;137(2):167–71

Biochemical markers of bone resorption compared with estimates of bone resorption from radiotracer kinetic studies in osteoporosis. Eastell R, et al. **J Bone Miner Res** 1997 Jan;12(1):59–65

Markers of bone resorption predict hip fracture in elderly women: the EPIDOS Prospective Study. Garnero P, et al. **J Bone Miner Res** 1996 Oct;11(10):1531–8

New marker of bone resorption: hydroxyproline–containing peptide. High–performance liquid chromatographic assay without hydrolysis as an alternative to hydroxyproline determination: a preliminary report. Mazzi G, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):165–72

Idiopathic hypercalciuria and osteoporosis––distinct clinical manifestations of increased cytokine–induced bone resorption? [editorial; comment] Pacifici R. **J Clin Endocrinol Metab** 1997 Jan;82(1):29–31. Comment on: J Clin Endocrinol Metab 1997 Jan;82(1):32–8.

Quantitation of biochemical markers of bone resorption following strontium–89–chloride therapy for metastatic prostatic carcinoma. Papatheofanis FJ. **J Nucl Med** 1997 Aug;38(8):1175–9

[Deoxypyridinoline and other biochemical markers of bone resorption in distinct pathologies] Rivero Marcotegui A, et al. **Rev Clin Esp** 1997 Jun;197(6):389–92 (Eng. Abstr.) **(Spa)**

VIROLOGY

The effect on chick osteoclasts of infection with paramyxoviruses. Shepard SL, et al. **J Pathol** 1996 Aug; 179(4):448–52

BONE SCREWS

Results and complications after posterior lumbar spondylodesis with the "Variable Screw Placement Spinal Fixation System". Bohnen IM, et al. **Acta Orthop Belg** 1997 Jun;63(2):67–73

Ununited proximal pole scaphoid fractures. Treatment with a Herbert screw in 16 cases followed for 0.5–8 years. Inoue G, et al. **Acta Orthop Scand** 1997 Apr;68(2):124–7

Anatomic considerations of anterior instrumentation of the thoracic spine. Ebraheim NA, et al. **Am J Orthop** 1997 Jun;26(6):419–24

Postoperative magnetic resonance imaging evaluation of Pipkin fractures fixated with titanium implants: a report of two cases. Olscamp AJ, et al. **Am J Orthop** 1997 Apr; 26(4):294–7

The use of osseous suture anchors in the treatment of severe, complicated elbow dislocations. Rodgers WB, et al. **Am J Orthop** 1996 Nov;25(11):794–8

Technique for securing guide wires in cannulated screw systems. Roux MA, et al. **Am J Orthop** 1996 Oct;25(10):726

Salvage anterior C1–C2 screw fixation and arthrodesis through the lateral approach in a patient with a symptomatic pseudoarthrosis. Vaccaro AR, et al. **Am J Orthop** 1997 May;26(5):349–53

Internal fixation of acute stable scaphoid fractures in the athlete. Rettig AC, et al. **Am J Sports Med** 1996 Mar–Apr; 24(2):182–6

Intraarticular migration of a femoral interference fit screw. A complication of anterior cruciate ligament reconstruction. Sidhu DS, et al. **Am J Sports Med** 1997 Mar–Apr;25(2):268–71

Bone mineral density in fractures treated with absorbable or metallic implants. Juutilainen T, et al. **Ann Chir Gynaecol** 1997;86(1):51–5

Biodegradable self–reinforced polyglycolide screws and rods in the fixation of displaced malleolar fractures in the elderly. A comparison with metallic implants. Kankare J, et al. **Ann Chir Gynaecol** 1996;85(3):263–70

Does the anchorage form and depth influence the pull–out strength of screws from bone cement? An experimental study. Heller KD, et al. **Arch Orthop Trauma Surg** 1997; 116(1–2):88–91

Tibial condylar fractures fixed with totally absorbable, self–reinforced polyglycolide screws. A preliminary report. Kankare J. **Arch Orthop Trauma Surg** 1997;116(3):133–6

Lumbar spine fusion and pedicle fixation with C–D screws for lumbar iatrogenic instability. Nooraie H, et al. **Arch Orthop Trauma Surg** 1997;116(4):236–8

Totally absorbable fixation in the treatment of fractures of the distal femoral epiphyses. A prospective clinical study. Partio EK, et al. **Arch Orthop Trauma Surg** 1997; 116(4):213–6

Tibial avulsion fracture of the posterior cruciate ligament: K–wire or screw fixation? A retrospective study of 26 patients. Seitz H, et al. **Arch Orthop Trauma Surg** 1997; 116(5):275–8

Placement of the distal locking screws of the femoral intramedullary nail without radiation. Steriopoulos KA, et al. **Arch Orthop Trauma Surg** 1996;115(1):43–4

Stress fracture of the proximal femur after screw removal. Velkes S, et al. **Arch Orthop Trauma Surg** 1996;115(1):61–2

Prevention of potential fracture between two implants using interlocking bipolar cut short GK nail and Enders nail. Yip KM. **Arch Orthop Trauma Surg** 1997;116(4):229–32

Femoral interference screw placement through the tibial tunnel: a radiographic evaluation of interference screw divergence angles after endoscopic anterior cruciate ligament reconstruction. Brodie JT, et al. **Arthroscopy** 1996 Aug;12(4):435–40

Comparison of "inside–out" and "outside–in" interference screw fixation for anterior cruciate ligament surgery in a bovine knee. Bryan JM, et al. **Arthroscopy** 1996 Feb; 12(1):76–81

Biomechanical comparison between BioScrew and titanium alloy interference screws for bone–patellar tendon–bone graft fixation in anterior cruciate ligament reconstruction. Caborn DN, et al. **Arthroscopy** 1997 Apr;13(2):229–32

Interference screw divergence in endoscopic anterior cruciate ligament reconstruction. Dworsky BD, et al. **Arthroscopy** 1996 Feb;12(1):45–9

Metal and biodegradable interference screws: comparison of failure strength. Johnson LL, et al. **Arthroscopy** 1996 Aug; 12(4):452–6

Consistent and accurate graft passage and interference screw guide wire placement during single incision anterior cruciate ligament reconstruction. McGuire DA, et al. **Arthroscopy** 1997 Aug;13(4):526–9

Comparison of screw post fixation and free bone block interference fixation for anterior cruciate ligament soft tissue grafts: biomechanical considerations. Novak PJ, et al. **Arthroscopy** 1996 Aug;12(4):470–3

Endoscopically assisted patella–tendon graft femoral fixation failure [letter; comment] Prietto MP. **Arthroscopy** 1997 Apr;13(2):281. Comment on: Arthroscopy 1996 Apr;12(2):232–5.

Fixation strength of a biodegradable interference screw and a press–fit technique in anterior cruciate ligament reconstruction with a BPTB graft. Rupp S, et al. **Arthroscopy** 1997 Feb;13(1):61–5

Clinical degradation and biocompatibility of different bioabsorbable interference screws: a report of six cases. Stähelin AC, et al. **Arthroscopy** 1997 Apr;13(2):238–44

Strength of the fixation of patellar tendon bone grafts using a totally absorbable self–reinforced poly–L–lactide expansion plug and screw. An experimental study in a bovine cadaver. Tuompo P, et al. **Arthroscopy** 1996 Aug; 12(4):422–7

Experimental study of mechanical properties of composite carbon screws. Błażewicz S, et al. **Biomaterials** 1997 Mar; 18(5):437–9

Resorbable polymeric inserts as a means of enhancing fixation of fractures of porotic bones. I. Stability of mechanical properties and viscoelasticity of the inserts aged in vitro. Mainil–Varlet P, et al. **Biomaterials** 1997 Feb;18(4):289–93

Resorption of composite polymer–hydroxyapatite membranes: a time–course study in rabbit. Piattelli A, et al. **Biomaterials** 1997 Apr;18(8):629–33

Stability of orthognathic surgery: a review of rigid fixation. Van Sickels JE, et al. **Br J Oral Maxillofac Surg** 1996 Aug; 34(4):279–85 (62 ref.)

Posterior pelvic ring fractures: closed reduction and percutaneous CT–guided sacroiliac screw fixation. Jacob AL, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug; 20(4):285–94

Subclavian artery injury caused by a screw in a clavicular compression plate. Johnson B, et al. **Cardiovasc Surg** 1996 Jun;4(3):414–5

Odontoid fractures in the child with neurological injury. Direct anterior osteosynthesis with a cortico–spongious screw and literature review. Godard J, et al. **Childs Nerv Syst** 1997 Feb;13(2):105–7 (14 ref.)

X–ray evaluation of interferential femoral screw positioning in ACL reconstruction. Cassisa G, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):257–61 **(Eng, Ita)**

Acetabular screw rings and surface treatment. Delaunay CP, et al. **Clin Orthop** 1997 Jul;(340):130–41

Anatomic basis of lag screw placement in the anterior column of the acetabulum. Ebraheim NA, et al. **Clin Orthop** 1997 Jun;(339):200–5

Screw placement in the lumbar vertebral isthmus. Lu J, et al. **Clin Orthop** 1997 May;(338):227–30

Pullout strengths of cannulated and noncannulated cancellous bone screws. Thompson JD, et al. **Clin Orthop** 1997 Aug; (341):241–9

Current concepts of absorbable fixation in first ray surgery. Cicchinelli LD, et al. **Clin Podiatr Med Surg** 1996 Jul; 13(3):533–47 (45 ref.)

Lumbosacral arthrodesis using pedicular screws and ringed rods. Beguiristain JL, et al. **Eur Spine J** 1997;6(4):233–8

Pedicle screw fixation in spinal disorders: a European view. Boos N, et al. **Eur Spine J** 1997;6(1):2–18 (195 ref.)

Verification of the position of pedicle screws in lumbar spinal fusion. Haaker RG, et al. **Eur Spine J** 1997;6(2):125–8

The mechanical role of laminar hook protection of pedicle screws at the caudal end vertebra. Margulies JY, et al. **Eur Spine J** 1997;6(4):245–8

Revision ankle fusion using internal compression arthrodesis with screw fixation [published erratum appears in Foot Ankle Int 1997 Jun;18(6):379] Anderson JG, et al. **Foot Ankle Int** 1997 May;18(5):300–9

Internal fixation of the proximal chevron osteotomy. Anderson RB, et al. **Foot Ankle Int** 1997 Jun;18(6):371–2

Talar neck fractures: anatomic considerations for posterior screw application. Ebraheim NA, et al. **Foot Ankle Int** 1996 Sep;17(9):541–7

Analysis of failed surgical management of fractures of the base of the fifth metatarsal distal to the tuberosity: the Jones fracture. Glasgow MT, et al. **Foot Ankle Int** 1996 Aug; 17(8):449–57

Polyglycolide bioabsorbable screws in the treatment of ankle fractures. Hovis WD, et al. **Foot Ankle Int** 1997 Mar; 18(3):128–31

Syndesmotic screw placement: a biomechanical analysis. McBryde A, et al. **Foot Ankle Int** 1997 May;18(5):262–6

Triple arthrodesis: a biomechanical evaluation of screw versus staple fixation. Meyer MS, et al. **Foot Ankle Int** 1996 Dec;17(12):764–7

Percutaneous cannulated screw fixation of femoral neck fractures: the three point principle. Bout CA, et al. **Injury** 1997 Mar;28(2):135–9

A technique for removal of fractured locking screws from an intramedullary nail. Davies NM, et al. **Injury** 1997 Mar; 28(2):159

The strength of iliosacral lag screws and transiliac bars in the fixation of vertically unstable pelvic injuries with sacral fractures. Gorczyca JT, et al. **Injury** 1996 Oct;27(8):561–4

An improved screw design for locked intramedullary nailing. Pennig D. **Injury** 1997 Mar;28(2):162–4

Use of a laser guide to reduce screening time for the dynamic hip screw. Robinson AH, et al. **Injury** 1996 Dec; 27(10):713–4

How to avoid overlong screws. Wong-Chung J, et al. **Injury** 1996 Jul;27(6):427–8

Alveolar reconstruction with splitting osteotomy and microfixation of implants. Engelke WG, et al. **Int J Oral Maxillofac Implants** 1997 May–Jun;12(3):310–8

Influence of mono- and bicortical anchorage on the integration of titanium implants. A study in the rabbit tibia. Ivanoff CJ, et al. **Int J Oral Maxillofac Surg** 1996 Jun; 25(3):229–35

In vivo surface analysis of titanium and stainless steel miniplates and screws. Matthew IR, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):463–8

Fixation with reconstruction plates under critical conditions: the role of screw characteristics. Söderholm AL, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):469–73

Poly(L-lactide) bone plates and screws for internal fixation of mandibular swing osteotomies. Tams J, et al. **Int J Oral Maxillofac Surg** 1996 Feb;25(1):20–4

Biomechanical evaluation of new fixation devices for mandibular angle fractures. Wittenberg JM, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):68–73

Self-compressive osteotomy of the greater trochanter. Naito M, et al. **Int Orthop** 1997;21(2):119–21

Sample size estimates for the use of human bone in the experimental study of cancellous screw extraction mechanics. Hearn TC, et al. **J Biomech** 1996 Apr; 29(4):569–72

Loading of pedicle screws within the vertebra. Yerby SA, et al. **J Biomech** 1997 Sep;30(9):951–4

A protocol to evaluate semi-rigid pedicle screw systems. Clausen JD, et al. **J Biomech Eng** 1997 Aug;119(3):364–6

Biocompatibility testing of NiTi screws using immunohistochemistry on sections containing metallic implants. Berger-Gorbet M, et al. **J Biomed Mater Res** 1996 Oct;32(2):243–8

A histological and histomorphometrical evaluation of the application of screw-designed calciumphosphate (Ca-P)-coated implants in the cancellous maxillary bone of the goat. Caulier H, et al. **J Biomed Mater Res** 1997 Apr;35(1):19–30

Effects of Ca and H2O2 added to RPMI on the fretting corrosion of Ti6Al4V. Montague A, et al. **J Biomed Mater Res** 1996 Dec;32(4):519–26

Torque and histomorphometric evaluation of c.p. titanium screws blasted with 25- and 75-microns-sized particles of Al2O3. Wennerberg A, et al. **J Biomed Mater Res** 1996 Feb;30(2):251–60

Repair of the defect in spondylolysis. Durable fixation with pedicle screws and laminar hooks. Kakiuchi M. **J Bone Joint Surg Am** 1997 Jun;79(6):818–25

A comparison of fixation screws for the scaphoid during application of cyclical bending loads. Toby EB, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1190–7

Non-union of the scaphoid. Treatment with cannulated screws compared with treatment with Herbert screws. Trumble TE, et al. **J Bone Joint Surg Am** 1996 Dec; 78(12):1829–37

Disengagement of a locking screw from a modular stem in revision total knee arthroplasty. A report of three cases. Westrich GH, et al. **J Bone Joint Surg Am** 1997 Feb; 79(2):254–8

Atrophic nonunion of the clavicle: treatment by compression plate, lag-screw fixation and bone graft. Boyer MI, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):301–3

Percutaneous screw removal in slipped upper femoral epiphysis. Gruber MA, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):137–9

Herbert screw fixation by limited access for acute fractures of the scaphoid. Inoue G, et al. **J Bone Joint Surg Br** 1997 May;79(3):418–21

Torsion-axial force characteristics of SR-PLLA screws. Shetty V, et al. **J Craniomaxillofac Surg** 1997 Feb; 25(1):19–23

Austin/chevron osteotomy fixed with bioabsorbable poly-L-lactic acid single screw. Barca F, et al. **J Foot Ankle Surg** 1997 Jan–Feb;36(1):15–20; discussion 79–80

Austin bunionectomy using single screw fixation: five-year versus 18-month follow-up findings. Goforth WP, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):255–9

The use of the Synthes 7.3-mm. cannulated screw in rearfoot and ankle surgery: a preliminary prospective study. Rockett MS, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):87–94; discussion 159

A modification for the insertion of the Herbert screw in the fractured or nonunited scaphoid. Heaps RJ, et al. **J Hand Surg [Am]** 1996 Sep;21(5):922–4

Repeat screw stabilization with bone grafting after a failed Herbert screw fixation for acute scaphoid fractures and nonunions. Inoue G, et al. **J Hand Surg [Am]** 1997 May; 22(3):413–8

Unrecognized chondral penetration by a Herbert screw in the scaphoid. Tumilty JA, et al. **J Hand Surg [Am]** 1996 Jan;21(1):66–8

Distal interphalangeal joint arthrodesis comparing tension-band wire and Herbert screw: a biomechanical and dimensional analysis. Wyrsch B, et al. **J Hand Surg [Am]** 1996 May;21(3):438–43

Herbert screw insertion in the scaphotrapezial joint. A cause of degenerative change? Callanan I, et al. **J Hand Surg [Br]** 1996 Dec;21(6):775–7

Anchorage of wrist joint prostheses to bone using the osseointegration principle. Lundborg G, et al. **J Hand Surg [Br]** 1997 Feb;22(1):84–9

Computer-assisted spine surgery: a technique for accurate transpedicular screw fixation using CT data and a 3-D optical localizer. Lavallée S, et al. **J Image Guid Surg** 1995; 1(1):65–73

Triple anterior screw fixation of an acute combination atlas-axis fracture. Case report. Apostolides PJ, et al. **J Neurosurg** 1997 Jul;87(1):96–9

Radiological and anatomical evaluation of the atlantoaxial transarticular screw fixation technique. Madawi AA, et al. **J Neurosurg** 1997 Jun;86(6):961–8 (18 ref.)

The anatomical suitability of the C1-2 complex for transarticular screw fixation. Paramore CG, et al. **J Neurosurg** 1996 Aug;85(2):221–4

A bioabsorbable poly-L-lactide miniplate and screw system for osteosynthesis in oral and maxillofacial surgery. Bessho K, et al. **J Oral Maxillofac Surg** 1997 Sep; 55(9):941-5;discussion 945–6

Lag screw fixation of a nonstable zygomatic complex fracture: case report. Chotkowski G, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):183–5

Use of lag screws for fractures of the mandibular body. Ellis E 3rd. **J Oral Maxillofac Surg** 1996 Nov;54(11):1314–6

Stability after surgical correction of mandibular prognathism using the sagittal split ramus osteotomy and fixation with poly-L-lactic acid (PLLA) screws. Harada K, et al. **J Oral Maxillofac Surg** 1997 May;55(5):464–8; discussion 468–9

An in vitro comparison of the mechanical characteristics of three sagittal ramus osteotomy fixation techniques. Murphy MT, et al. **J Oral Maxillofac Surg** 1997 May;55(5):489–94; discussion 494–5

Wurzburg lag screw plate versus four-hole miniplate for the treatment of condylar process fractures. Ziccardi VB, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):602–7; discussion 608–9

Comparison of the fixation of subcapital femoral neck osteotomies with absorbable self-reinforced poly-L-lactide lag-screws or metallic screws in sheep. Jukkala-Partio K, et al. **J Orthop Res** 1997 Jan;15(1):124–7

Migration of press-fit cups fixed with poly-L-lactic acid or titanium screws: a randomized study using radiostereometry. Thanner J, et al. **J Orthop Res** 1996 Nov; 14(6):895–900

Comparison of the tissue response to absorbable self-reinforced polylactide screws and metallic screws in the fixation of cancellous bone osteotomies: an experimental study on the rabbit distal femur. Viljanen JT, et al. **J Orthop Res** 1997 May;15(3):398–407

Cancellous bone screw thread design and holding power. Asnis SE, et al. **J Orthop Trauma** 1996;10(7):462–9

Intraarticular calcaneus fractures: a biomechanical comparison or two fixation methods. Bailey EJ, et al. **J Orthop Trauma** 1997 Jan;11(1):34–7

Biomechanical comparison of internal fixation techniques for the treatment of unstable basicervical femoral neck fractures. Deneka DA, et al. **J Orthop Trauma** 1997 Jul; 11(5):337–43

Regarding safe and effective placement of ileosacral screws [letter; comment] Matta JM. **J Orthop Trauma** 1996; 10(7):514. Comment on: J Orthop Trauma 1996;10(3):171–7.

The reinforcement of cancellous bone screws with calcium phosphate cement. Mermelstein LE, et al. **J Orthop Trauma** 1996;10(1):15–20

Optimal side plate fixation for unstable intertrochanteric hip fractures. Yian EH, et al. **J Orthop Trauma** 1997 May; 11(4):254–9

Pedicle screw instrumentation for unstable thoracolumbar fractures. Stovall DO Jr, et al. **J South Orthop Assoc** 1996 Fall;5(3):165–73

Planning and insertion of pedicle screws with computer assistance. Berlemann U, et al. **J Spinal Disord** 1997 Apr; 10(2):117–24

Evaluation of pedicle screw insertion monitored by intraoperative evoked electromyography. Darden BV 2nd, et al. **J Spinal Disord** 1996 Feb;9(1):8–16

Radiological evaluation of S1 dorsal screw placement. Ebraheim NA, et al. **J Spinal Disord** 1996 Dec;9(6):527–35

Radiologic evaluation of the relation of the screw tip to the nerve root in the intervertebral foramen. Ebraheim NA, et al. **J Spinal Disord** 1997 Jun;10(3):234–9

Correlation of bone equivalent mineral density to pull-out resistance of triangulated pedicle screw construct. Hadjipavlou AG, et al. **J Spinal Disord** 1997 Feb;10(1):12–9

Rib graft or cement to enhance screw fixation in anterior vertebral bodies. Hernigou P, et al. **J Spinal Disord** 1996 Aug;9(4):322–5

Posterior stabilization in L5-S1 isthmic spondylolisthesis with paralaminar screw fixation: anatomical and clinical results. Jeanneret B, et al. **J Spinal Disord** 1996 Jun;9(3):223–33

Assessment of pseudarthrosis in pedicle screw fusion: a prospective study comparing plain radiographs, flexion/extension radiographs, CT scanning, and bone scintigraphy with operative findings. Larsen JM, et al. **J Spinal Disord** 1996 Apr;9(2):117–20

Screw omission and the stability of posterior pedicle screw constructs for short-segment stabilization. Margulies JY, et al. **J Spinal Disord** 1997 Jun;10(3):240–5

Accuracy of pedicle screw placement with the assistance of lateral plain radiography. Odgers CJ 4th, et al. **J Spinal Disord** 1996 Aug;9(4):334–8

The efficacy of pedicle screw/plate fixation on lumbar/lumbosacral autogenous bone graft fusion in adult patients with degenerative spondylolisthesis. Rechtine GR, et al. **J Spinal Disord** 1996 Oct;9(5):382–91

Adult spondylolisthesis treated with posterolateral lumbar fusion and pedicular instrumentation with AO DC plates. Thalgott JS, et al. **J Spinal Disord** 1997 Jun;10(3):204–8 (15 ref.)

Transfacet screws with lumbar interbody reconstruction: biomechanical study of motion segment stiffness. Volkman T, et al. **J Spinal Disord** 1996 Oct;9(5):425–32

Biomechanics of in situ rod contouring of short-segment pedicle screw instrumentation in the thoracolumbar spine. Voor MJ, et al. **J Spinal Disord** 1997 Apr;10(2):106–16

Posterior pedicular screw instrumentation and anterior interbody fusion in adult lumbar spondylolysis or grade I spondylolisthesis with segmental instability. Wang JM, et al. **J Spinal Disord** 1996 Apr;9(2):83–8

Biomechanical analysis of location of lag screw of a dynamic hip screw in treatment of unstable intertrochanteric fracture. Wu CC, et al. **J Trauma** 1996 Oct;41(4):699–702

Treatment of comminuted subtrochanteric fractures by dynamic hip screw. Ali M. **JPMA J Pak Med Assoc** 1995 Aug;45(8):212–5

Pullout strength of tibial graft fixation in anterior cruciate ligament replacement with a patellar tendon graft: interference screw versus staple fixation in human knees. Gerich TG, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(2):84–8

Application of Dall-Miles cable grip system for transtrochanteric osteotomy. Wang J, et al. **Kurume Med J** 1997;44(1):1–6

Screw fixation for odontoid fracture; a comparison of the anterior and posterior technique. Hacker RJ. **Nebr Med J** 1996 Aug;81(8):275–8

The Axis Fixation System for posterior instrumentation of the cervical spine. Cooper PR. **Neurosurgery** 1996 Sep; 39(3):612–4

Pubic bone suburethral stabilization sling for recurrent urinary incontinence. Kovac SR, et al. **Obstet Gynecol** 1997 Apr;89(4):624–7

Maxillo-mandibular fixation with screws [letter] Jensen OT. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):418

Lag-screw fixation of mandibular parasymphyseal and angle fractures. Kallela I, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):510–6

Distal locking screws [letter; comment] Blasier RB. **Orthopedics** 1996 Nov;19(11):926–7. Comment on: Orthopedics 1996 Jul;19(7):593–5.

Evaluation of Herbert screw fixation for the treatment of displaced scaphoid nonunions. Feldman MD, et al. **Orthopedics** 1997 Apr;20(4):325–8

Placement of screws in the uncemented acetabulum: anatomic analysis of the danger zone. Xu R, et al. **Orthopedics** 1997 Aug;20(8):699–702

Transcranial migration of microfixation plates and screws. Case report. Duke BJ, et al. **Pediatr Neurosurg** 1996 Jul; 25(1):31–4; discussion 35

Fixation of alloplastic facial implants with lag screws [letter] Martin-Granizo R, et al. **Plast Reconstr Surg** 1997 Jun; 99(7):2100–1

Transverse lag screw fixation of the midline mandibulotomy. Serletti JM, et al. **Plast Reconstr Surg** 1997 Jan;99(1):239–41

Bone registration method for robot assisted surgery: pedicle screw insertion. Abdel-Malek K, et al. **Proc Inst Mech Eng [H]** 1997;211(3):221–33

Internally stabilized spine: optimal choice of frequency-encoding gradient direction during MR imaging minimizes susceptibility artifact from titanium vertebral

body screws. Frazzini VI, et al. **Radiology** 1997 Jul; 204(1):268–72
Pedicle screw fixation for nontraumatic lesions of the cervical spine. Abumi K, et al. **Spine** 1997 Aug 15;22(16):1853–63
Lumbar pedicle screws versus hooks. Results in double major curves in adolescent idiopathic scoliosis. Barr SJ, et al. **Spine** 1997 Jun 15;22(12):1369–79
Anatomic consideration of C2 pedicle screw placement [letter; comment] Benzel EC. **Spine** 1996 Oct 1; 21(19):2301–2. Comment on: Spine 1996 Mar 15;21(6):691–5.
In vitro simulation. Early results of stereotaxy for pedicle screw placement. Carl AL, et al. **Spine** 1997 May 15; 22(10):1160–4
Accuracy of pedicle screw placement in lumbar vertebrae. Castro WH, et al. **Spine** 1996 Jun 1;21(11):1320–4
Evoked and spontaneous electromyography to evaluate lumbosacral pedicle screw placement. Clements DH, et al. **Spine** 1996 Mar 1;21(5):600–4
Mechanical evaluation of cross-link designs in rigid pedicle screw systems. Dick JC, et al. **Spine** 1997 Feb 15; 22(4):370–5
The removal of a transdural pedicle screw placed for thoracolumbar spine fracture. Donovan DJ, et al. **Spine** 1996 Nov 1;21(21):2495–8; discussion 2499
Anatomic consideration of C2 pedicle screw placement [see comments] Ebraheim N, et al. **Spine** 1996 Mar 15; 21(6):691–5. Comment in: Spine 1996 Oct 1;21(19):2301–2.
The location of the vertebral artery foramen and its relation to posterior lateral mass screw fixation. Ebraheim NA, et al. **Spine** 1996 Jun 1;21(11):1291–5
Morphologic considerations of the first sacral pedicle for iliosacral screw placement. Ebraheim NA, et al. **Spine** 1997 Apr 15;22(8):841–6
Reliability of roentgenogram evaluation of pedicle screw position. Ferrick MR, et al. **Spine** 1997 Jun 1; 22(11):1249–52; discussion 1253
Biomechanical analysis of multilevel fixation methods in the lumbar spine. Glazer PA, et al. **Spine** 1997 Jan 15; 22(2):171–82
Assessment of vertebral body motion during spine surgery. Glossop N, et al. **Spine** 1997 Apr 15;22(8):903–9
Computer-aided pedicle screw placement using frameless stereotaxis. Glossop ND, et al. **Spine** 1996 Sep 1; 21(17):2026–34
The use of pedicle screw fixation to improve correction in the lumbar spine of patients with idiopathic scoliosis. Is it warranted? Hamill CL, et al. **Spine** 1996 May 15; 21(10):1241–9
The effect of anterior thoracolumbar plate application on the compressive loading of the strut graft. Harris MB, et al. **Spine** 1996 Jul 1;21(13):1487–93
An experimental study of a combination method using a pedicle screw and laminar hook for the osteoporotic spine. Hasegawa K, et al. **Spine** 1997 May 1;22(9):958–62; discussion 963
The ideal amount of lumbar foraminal distraction for pedicle screw instrumentation. Infusa A, et al. **Spine** 1996 Oct 1; 21(19):2218–23
Cervical pedicle screws versus lateral mass screws. Anatomic feasibility and biomechanical comparison. Jones EL, et al. **Spine** 1997 May 1;22(9):977–82
Multidirectional instability of the thoracic spine due to iatrogenic pedicle injuries during transpedicular fixation. A biomechanical investigation. Kothe R, et al. **Spine** 1997 Aug 15;22(16):1836–42
Insertional torque and pull-out strengths of conical and cylindrical pedicle screws in cadaveric bone. Kwok AW, et al. **Spine** 1996 Nov 1;21(21):2429–34
Improved accuracy of pedicle screw insertion with computer-assisted surgery. A prospective clinical trial of 30 patients. Laine T, et al. **Spine** 1997 Jun 1;22(11):1254–8
Mechanical stability of thoracolumbar pedicle screw fixation. The effect of crosslinks. Lynn G, et al. **Spine** 1997 Jul 15; 22(14):1568–72; discussion 1573
The effect of pedicle morphometry on pedicle screw loading. A synthetic model. McKinley TO, et al. **Spine** 1997 Feb 1;22(3):246–52
The effect of bone quality on pedicle screw loading in axial instability. A synthetic model. McLain RF, et al. **Spine** 1997 Jul 1;22(13):1454–60
Iliosacral screw fixation for pelvic obliquity in neuromuscular scoliosis. A long-term follow-up study. Miladi LT, et al. **Spine** 1997 Aug 1;22(15):1722–9
Restoration of pedicle screw fixation with an in situ setting calcium phosphate cement. Moore DC, et al. **Spine** 1997 Aug 1;22(15):1696–705
The role of imaging and in situ biomechanical testing in assessing pedicle screw pull-out strength. Myers BS, et al. **Spine** 1996 Sep 1;21(17):1962–8
Comparison between single-screw and triangulated, double-screw fixation in anterior spine surgery. A biomechanical test. Ogon M, et al. **Spine** 1996 Dec 1; 21(23):2728–34
Comparative pull-out strength of tapped and untapped pilot holes for bicortical anterior cervical screws. Ronderos JF, et al. **Spine** 1997 Jan 15;22(2):167–70
Persistently electrified pedicle stimulation instruments in spinal instrumentation. Technique and protocol development. Rose RD, et al. **Spine** 1997 Feb 1; 22(3):334–43
Accuracy of computer-assisted pedicle screw placement. An in vivo computed tomography analysis. Schwarzenbach O, et al. **Spine** 1997 Feb 15;22(4):452–8
Indirect spinal canal decompression in burst fractures treated with pedicle screw instrumentation. Sjostrom L, et al. **Spine** 1996 Jan 1;21(1):113–23
Adding posterior lumbar interbody fusion to pedicle screw fixation and posterolateral fusion after decompression in spondylolytic spondylolisthesis. Suk SI, et al. **Spine** 1997 Jan 15;22(2):210–9; discussion 219–20
Repair of defects in spondylolysis by segmental pedicular screw hook fixation. A preliminary report. Tokuhashi Y, et al. **Spine** 1996 Sep 1;21(17):2041–5
Evaluation of cervical posterior lateral mass screw placement by oblique radiographs. Xu R, et al. **Spine** 1996 Mar 15; 21(6):696–701
Radiologic evaluation of iliosacral screw placement. Xu R, et al. **Spine** 1996 Mar 1;21(5):582–8
Offset laminar hooks decrease bending moments of pedicle screws during in situ contouring. Yerby SA, et al. **Spine** 1997 Feb 15;22(4):376–81
Performance of ventral spondylodesis screws in cervical vertebrae of varying bone mineral density. Zink PM. **Spine** 1996 Jan 1;21(1):45–52
Image-guided computer-assisted spine surgery: a pilot study on pedicle screw fixation. Nolte L, et al. **Stereotact Funct Neurosurg** 1996;66(1–3):108–17
Bilateral bone anchor vaginal vault suspension: an initial report of a new technique. Shetty SD, et al. **Tech Urol** 1997 Spring;3(1):1–5
Internal fixation of the spine in traumatic and scoliotic cases. The potential of pedicle screws. Van Brussel K, et al. **Technol Health Care** 1996 Dec;4(4):365–84 (44 ref.)
Chest wall reconstruction using a titanium hollow screw reconstruction plate. Nomori H, et al. **Thorac Cardiovasc Surg** 1997 Feb;45(1):35–7
[Computer assisted pedicle screw installation. Our first 3 cases] Amiot LP, et al. **Ann Chir** 1996;50(8):626–30 (Eng. Abstr.) **(Fre)**
[Retrosternal luxation of the clavicle. Apropos of 4 cases surgically treated using a temporary screwed anterior plate and review of the literature] Asfazadourian H, et al. **Ann Chir Main Memb Super** 1997;16(2):152–69 (114 ref.) (Eng. Abstr.) **(Fre)**
[Spontaneous elimination by the natural tracts of screws of anterior cervical osteosynthesis. Apropos of a case] Chataigner H, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):78–82 (Eng. Abstr.) **(Fre)**
[The dynamic hip screw with support plate--a reliable osteosynthesis for highly unstable "reverse" trochanteric fractures?] Dávid A, et al. **Chirurg** 1996 Nov;67(11):1166–73 (Eng. Abstr.) **(Ger)**
[Comparative stability evaluation of dynamic hip screw and gamma-nail osteosyntheses in unstable pertrochanteric femoral osteotomies] Kaiser W, et al. **Langenbecks Arch Chir** 1997;382(2):100–6 (Eng. Abstr.) **(Ger)**
[A new roentgen ray-free aiming technique for distal locking screw boring of the unreamed tibial nail] Krettek C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:947–50 (Eng. Abstr.) **(Ger)**
[Possibilities for early ambulation and long-term outcome of treatment of trochanteric fractures with the dynamic hip screw and gamma nail] Schick CH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:991–3 (Eng. Abstr.) **(Ger)**
[Advantage of load-bearing osteosynthesis of pertrochanteric fractures in geriatric traumatology] Schwämmle K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:967–9 (Eng. Abstr.) **(Ger)**
[Extra-articular proximal femur fracture in the elderly--dynamic hip screw or intramedullary hip screw for fracture management?] Wagner R, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:963–6 (Eng. Abstr.) **(Ger)**
[Osteosynthesis in the mid-face and forehead area] Siegert R, et al. **Laryngorhinootologie** 1996 Jul;75(7):419–25 (Eng. Abstr.) **(Ger)**
[Computer-assisted orthopedic surgery. From pedicle screw insertion to further applications] Berlemann U, et al. **Orthopade** 1997 May;26(5):463–9 (34 ref.) (Eng. Abstr.) **(Ger)**
[New developments in the application of resorbable implants] Rehm KE, et al. **Orthopade** 1997 May;26(5):489–97 (Eng. Abstr.) **(Ger)**
[Experimental studies of the biomechanics of scaphoid screws] Kaudela KH, et al. **Unfallchirurg** 1996 Feb; 99(2):130–5 (Eng. Abstr.) **(Ger)**
[Supportive composite-hybrid fixation of percutaneous screw fixation of tibial head fractures] Raschke MJ, et al. **Unfallchirurg** 1996 Nov;99(11):855–60 (Eng. Abstr.) **(Ger)**
[Kapandji corrective operation of post-traumatic disorder of the distal radio-ulnar joint] Zilch H, et al. **Unfallchirurg** 1996 Nov;99(11):841–4 (Eng. Abstr.) **(Ger)**
[Computerized tomography monitoring of the position of pedicle screws in scoliosis surgery] Halm H, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov-Dec;134(6):492–7 (Eng. Abstr.) **(Ger)**
[Fixation of neck-head with a single cannulated screw for slipped capital femoral epiphysis--preliminary report] Wojciechowski P, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):579–83 (Eng. Abstr.) **(Pol)**
[Experimental findings and a new screw endoprosthesis of the hip joint] Sherepo KM. **Med Tekh** 1996 Sep-Oct; (5):38–41 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Clinical failure of tibial interference screw fixation after anterior cruciate ligament reconstruction. A report of two cases [see comments] Cooper DE, et al. **Am J Sports Med** 1996 Sep-Oct;24(5):693–7. Comment in: Am J Sports Med 1997 May-Jun;25(3):417–8.
Quality of tibial fixation in ACL reconstructions [letter; comment] Williams A, et al. **Am J Sports Med** 1997 May-Jun;25(3):417–8. Comment on: Am J Sports Med 1996 Sep-Oct;24(5):693–7.
Ankle diastasis without fracture: an uncommon injury with an unusual complication. Burgert S, et al. **Injury** 1996 Nov; 27(9):666–7
Reconstruction femoral nailing for nonunion of subtrochanteric fracture: a revision technique following dynamic condylar screw failure. Charnley GJ, et al. **Int Orthop** 1996;20(1):55–7
Obturator nerve palsy due to fixation of an acetabular reinforcement ring with transacetabular screws. A case report. Fricker RM, et al. **J Bone Joint Surg Am** 1997 Mar; 79(3):444–6
Articular penetration is more likely in Garden-I fractures of the hip. Hernigou P, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):285–8
Arteriovenous fistula as a complication of C1-2 transarticular screw fixation. Case report and review of the literature. Coric D, et al. **J Neurosurg** 1996 Aug;85(2):340–3 (20 ref.)
Evaluation with evoked and spontaneous electromyography during lumbar instrumentation: a prospective study. Welch WC, et al. **J Neurosurg** 1997 Sep;87(3):397–402
Lingual nerve injury associated with overpenetration of bicortical screws used for fixation of a bilateral mandibular sagittal split ramus osteotomy. Schow SR, et al. **J Oral Maxillofac Surg** 1996 Dec;54(12):1451–2
Mechanical failure of the intramedullary hip screw in a subtrochanteric femoral fracture. Rantanen J, et al. **J Orthop Trauma** 1996;10(5):348–50
Orthofix external fixation of distal radius fractures: complications associated with screw size. Gainor BJ, et al. **J South Orthop Assoc** 1994 Winter;3(4):299–302
Diskitis associated with transpedicular screw fixation. Hamilton W, et al. **J Spinal Disord** 1996 Feb;9(1):68–71
Outcome after Wiltse pedicle screw removal. Hume M, et al. **J Spinal Disord** 1996 Apr;9(2):121–4
An unusual cause of thoracic outlet syndrome. Casselman F, et al. **J Trauma** 1997 Jul;43(1):142–3
Complications when using the cannulated 3.5 mm screw system. Schwend RK, et al. **Orthopedics** 1997 Mar; 20(3):221–3
The fate of teeth transfixed by osteosynthesis screws [letter; comment] Christiansen SH, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2117–8. Comment on: Plast Reconstr Surg 1996 Apr;97(4):726–9.
A method for radiographic evaluation of pedicle screw violation of the vertebral endplate. Technique. Meter JJ, et al. **Spine** 1996 Jul 1;21(13):1587–92
Anatomic consideration of transpedicular screw placement in the cervical spine. An analysis of two approaches. Miller RM, et al. **Spine** 1996 Oct 15;21(20):2317–22
Potential large vessel injury during thoracolumbar pedicle screw removal. A case report. Vanichkachorn JS, et al. **Spine** 1997 Jan 1;22(1):110–3

STANDARDS

Dens fractures in the elderly. Results of anterior screw fixation in 19 elderly patients. Berlemann U, et al. **Acta Orthop Scand** 1997 Aug;68(4):319–24
Histomorphometrical analysis of the bone-implant interface: comparison of microradiography and brightfield microscopy. Parr JA, et al. **Biomaterials** 1996 Oct; 17(19):1921–6
Experimental study of turned and grit-blasted screw-shaped implants with special emphasis on effects of blasting material and surface topography. Wennerberg A, et al. **Biomaterials** 1996 Jan;17(1):15–22
Survivorship analysis of DKS instrumentation in the treatment of spondylolisthesis. Chen WJ, et al. **Clin Orthop** 1997 Jun;(339):113–20
Modified transverse locking nail fixation of proximal femoral fractures. Ziran BH, et al. **Clin Orthop** 1997 Jun;(339):82–91
Factors affecting the pullout strength of cancellous bone screws. Chapman JR, et al. **J Biomech Eng** 1996 Aug; 118(3):391–8
A device for the measurement of pedicle screw moments by means of internal strain gauges. Smith TS, et al. **J Biomech Eng** 1996 Aug;118(3):423–5
Extended uses for the Herbert/Whipple screw: six case reports out of 35 illustrating technique. Reimer H, et al. **J Orthop Trauma** 1996;10(1):7–14

VETERINARY

Lag screw fixation of an extensor process fracture in a foal with flexural deformity. MacLellan KN, et al. **Can Vet J** 1997 Apr;38(4):226–8

BONE SUBSTITUTES

Improved long-term bone-implant integration. Experiments in transgenic mice overexpressing bovine growth hormone. Morberg PH, et al. **Acta Orthop Scand** 1997 Aug; 68(4):344-8

Biologic remodeling after anterior cruciate ligament reconstruction using a collagen matrix derived from demineralized bone. An experimental study in the goat model. Jackson DW, et al. **Am J Sports Med** 1996 Jul-Aug; 24(4):405-14

Preliminary report: a ceramic containing crosslinked collagen as a new cranial onlay and inlay material. Schendel S, et al. **Ann Plast Surg** 1997 Feb;38(2):158-62

Absorbable polyglycolide devices in trauma and bone surgery. Ashammakhi N, et al. **Biomaterials** 1997 Jan; 18(1):3-9 (101 ref.)

Role of exchanged ions in the integration of ionomeric (glass polyalkenoate) bone substitutes. Carter DH, et al. **Biomaterials** 1997 Mar;18(6):459-66

Assessment of bone surrounding implants in goats: ex vivo measurements by dual X-ray absorptiometry. Corten FG, et al. **Biomaterials** 1997 Mar;18(6):495-501

Morphological and biomechanical difference in healing in segmental tibial defects implanted with Biocoral or tricalcium phosphate cylinders. Gao TJ, et al. **Biomaterials** 1997 Feb;18(3):219-23

Effect of thermal treatment on sterility, molecular and mechanical properties of various polylactides. 2. Poly(L/D-lactide) and poly(L/DL-lactide). Gogolewski S, et al. **Biomaterials** 1997 Feb;18(3):251-5

Bone tissue reactions to an electrophoretically applied calcium phosphate coating. Gottlander M, et al. **Biomaterials** 1997 Apr;18(7):551-7

In vivo study of a calcium phosphate cement consisting of alpha-tricalcium phosphate/dicalcium phosphate dibasic/tetracalcium phosphate monoxide. Kurashina K, et al. **Biomaterials** 1997 Jan;18(2):147-51

Clinical and histological results in alveolar ridge enlargement using coralline calcium carbonate. Piattelli A, et al. **Biomaterials** 1997 Apr;18(8):623-7

Biomechanical and histological evaluation of a hydroxyapatite-coated titanium femoral stem fixed with an intramedullary morsellized bone grafting technique: an animal experiment on goats. Schreurs BW, et al. **Biomaterials** 1996 Jun;17(12):1177-86

Histomorphometric analysis of the response of rat tibiae to shape memory alloy (nitinol). Takeshita F, et al. **Biomaterials** 1997 Jan;18(1):21-5

Dynamic compaction: a new process to compact therapeutic agent-loaded calcium phosphates. Trécant M, et al. **Biomaterials** 1997 Jan;18(2):141-5

Basic fibroblast growth factor promotes bone ingrowth in porous hydroxyapatite. Wang JS, et al. **Clin Orthop** 1996 Dec;(333):252-60

Biocompatibility and osteoconductivity of the pyrost bone substitutes. Tsuang YH, et al. **Histol Histopathol** 1997 Jan; 12(1):19-24

Tissue reaction and material characteristics of four bone substitutes. Jensen SS, et al. **Int J Oral Maxillofac Implants** 1996 Jan-Feb;11(1):55-66

An implant of a composite of bovine bone morphogenetic protein and plaster of paris for treatment of femoral shaft nonunions. Bai MH, et al. **Int Surg** 1996 Oct-Dec; 81(4):390-2

Friction properties at the bone-metal interface: comparison of four different porous metal surfaces. Dammak M, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):329-36

Evaluating sol-gel ceramic thin films for metal implant applications. I. Processing and structure of zirconia films on Ti-6Al-4V. Filiaggi MJ, et al. **J Biomed Mater Res** 1996 Winter;33(4):225-38

Evaluating sol-gel ceramic thin films for metal implant applications. II. Adhesion and fatigue properties of zirconia films on Ti-6Al-4V. Filiaggi MJ, et al. **J Biomed Mater Res** 1996 Winter;33(4):239-56

The influence of sintering temperature on the proliferation of fibroblastic cells in contact with HA-bioceramics. Frayssinet P, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):337-47

A two-step embedding process for better preservation of soft tissue surrounding coral implants. Fricain JC, et al. **J Biomed Mater Res** 1996 Spring;33(1):23-7

Enhanced healing of segmental tibial defects in sheep by a composite bone substitute composed of tricalcium phosphate cylinder, bone morphogenetic protein, and type IV collagen. Gao TJ, et al. **J Biomed Mater Res** 1996 Dec; 32(4):505-12

Bonding strength of bonelike apatite layer to Ti metal substrate. Kim HM, et al. **J Biomed Mater Res** 1997 Summer;38(2):121-7

Hydroxyapatite-coating on titanium arc sprayed titanium implants. Nakashima Y, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):287-98

Osteogenic differentiation of cultured marrow stromal stem cells on the surface of bioactive glass ceramics. Ohgushi H, et al. **J Biomed Mater Res** 1996 Nov;32(3):341-8

Bioactivity of titanium treated with hydrogen peroxide solutions containing metal chlorides. Ohtsuki C, et al. **J Biomed Mater Res** 1997 Apr;35(1):39-47

Effect of simulated intraoperative heating and shaping on mechanical properties of a bioabsorbable fracture plate material. Pietrzak WS, et al. **J Biomed Mater Res** 1997 Spring;38(1):17-24

Interactions of osteoblasts and macrophages with biodegradable and highly porous polyesterurethane foam and its degradation products. Saad B, et al. **J Biomed Mater Res** 1996 Nov;32(3):355-66

Subchondral bone and cartilage repair with bioactive glasses, hydroxyapatite, and hydroxyapatite-glass composite. Suominen E, et al. **J Biomed Mater Res** 1996 Dec; 32(4):543-51

Histomorphometric and molecular biologic comparison of bioactive glass granules and autogenous bone grafts in augmentation of bone defect healing. Virolainen P, et al. **J Biomed Mater Res** 1997 Apr;35(1):9-17

Three-dimensional examination of bone structure around hydroxyapatite implants using digital image processing. Wigianto R, et al. **J Biomed Mater Res** 1997 Feb; 34(2):177-82

Human histologic evaluation of HTR polymer and freeze-dried bone allograft. A case report. Froum SJ. **J Clin Periodontol** 1996 Jul;23(7):615-20

Effects of polyglactin mesh combined with resorbable calcium carbonate or replamineform hydroxyapatite on periodontal repair in dogs. Moon IS, et al. **J Clin Periodontol** 1996 Oct;23(10):945-51

Use of Bioplant HTR synthetic bone to eliminate major jawbone defects: long-term human histological examinations. Szabó G, et al. **J Craniomaxillofac Surg** 1997 Apr;25(2):63-8

Coralline hydroxyapatite bone graft substitutes. Elsinger EC, et al. **J Foot Ankle Surg** 1996 Sep-Oct;35(5):396-9 (17 ref.)

Coralline hydroxyapatite: a bone graft alternative in foot and ankle surgery. Rahimi F, et al. **J Foot Ankle Surg** 1997 May-Jun;36(3):192-203; discussion 255-6 (27 ref.)

Injectable calcium phosphate in the treatment of distal radial fractures. Kopylov P, et al. **J Hand Surg [Br]** 1996 Dec; 21(6):768-71

Periodontal repair in intrabony defects treated with a calcium carbonate implant and guided tissue regeneration. Kim CK, et al. **J Periodontol** 1996 Dec;67(12):1301-6

Liposomes-coated hydroxyapatite and tricalcium phosphate implanted in the mandibular bony defect of miniature swine. Huang JS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):213-28

Reconstruction of alveolar bone defects after extraction of mandibular third molars: a pilot study. Dodson TB. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):241-7

Reconstruction of major segmental loss of the proximal femur in revision total hip replacement. Chandler HP. **Orthopedics** 1997 Sep;20(9):801-3

Revision total knee arthroplasty of bone grafts versus implant supplementation. Gross AE. **Orthopedics** 1997 Sep; 20(9):843-4

Managing bone loss with augmentation. Stulberg SD. **Orthopedics** 1997 Sep;20(9):845-7

An innovative approach for cranioplasty using hydroxyapatite cement. Dujovny M, et al. **Surg Neurol** 1997 Sep;48(3):294-7

[A comparative morphometric and histologic study of five bone substitute materials] Chen L, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):527-30 (Eng. Abstr.) **(Chi)**

[The coral orbital floor. Its value in traumatology. The results of a multicenter study of 83 cases] Mercier J, et al. **Rev Stomatol Chir Maxillofac** 1996 Dec;97(6):324-31 (Eng. Abstr.) **(Fre)**

[Defect fractures of the tibia--various forms of bone replacement] Mittelmeier W, et al. **Chirurg** 1996 Nov; 67(11):1087-92 (30 ref.) (Eng. Abstr.) **(Ger)**

[Biocoral--an alternative bone substitute] Soost F. **Chirurg** 1996 Nov;67(11):1193-6 (Eng. Abstr.) **(Ger)**

[Ionomer cement as bone substitute in the middle ear of the rabbit] Geyer G. **HNO** 1997 Apr;45(4):222-6 (Eng. Abstr.) **(Ger)**

[Ionomer cement prostheses in reconstructive middle ear surgery] Geyer G, et al. **HNO** 1997 Jun;45(6):442-7 (Eng. Abstr.) **(Ger)**

[Testing bone implants in cell lines and human osteoblasts] Trentz OA, et al. **Unfallchirurg** 1997 Jan;100(1):39-43 (Eng. Abstr.) **(Ger)**

[Hydroxyapatite ceramics in clinical application. Histological findings in 23 patients] Liebendörfer A, et al. **Unfallchirurgie** 1997 Apr;23(2):60-8 (Eng. Abstr.) **(Ger)**

[The combined use of hydroxyapatite-based ceramic implants and fixation devices made of titanium in reconstructive operations on the maxillofacial area] Meshkov GV. **Stomatologiia (Mosk)** 1996;75(5):35-42 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Coral in malar augmentation: complications in our experience [letter] Santanchè P, et al. **Plast Reconstr Surg** 1997 Jan; 99(1):266-8

ANALYSIS

Application of the low vacuum scanning electron microscope to the study of biomaterials and mammalian cells. Sammons R, et al. **Biomaterials** 1997 Jan;18(1):81-6

CHEMICAL SYNTHESIS

Macroporous biphasic calcium phosphate ceramics: influence of five synthesis parameters on compressive strength. Bouler JM, et al. **J Biomed Mater Res** 1996 Dec;32(4):603-9

CHEMISTRY

Porous hydroxyapatite reinforced with collagen protein. Zhang QQ, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):693-702

In vitro calcium phosphate formation on a natural composite material, bamboo. Li SH, et al. **Biomaterials** 1997 Mar; 18(5):389-95

Long-term in vivo degradation and bone reaction to various polylactides. 1. One-year results. Mainil-Varlet P, et al. **Biomaterials** 1997 Feb;18(3):257-66

Initial biocompatibility studies of a novel degradable polymeric bone substitute that hardens in situ. Bennett S, et al. **Bone** 1996 Jul;19(1 Suppl):101S-107S

Pore size of porous hydroxyapatite as the cell-substratum controls BMP-induced osteogenesis. Tsuruga E, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):317-24

Spectroscopic studies of a multiphasic polymer-ceramic mixture material. Nguyen TP, et al. **J Biomater Sci Polym Ed** 1996;8(2):141-9

Three-dimensional defects in hydroxyapatite of biological interest. Daculsi G, et al. **J Biomed Mater Res** 1996 Aug; 31(4):495-501

Analysis of a biodegradable composite for bone healing. Flahiff CM, et al. **J Biomed Mater Res** 1996 Nov; 32(3):419-24

Self-setting, bioactive, and biodegradable TTCP-DCPD apatite cement. Hamanishi C, et al. **J Biomed Mater Res** 1996 Nov;32(3):383-9

In vitro properties of a chitosan-bonded self-hardening paste with hydroxyapatite granules. Maruyama M, et al. **J Biomed Mater Res** 1996 Dec;32(4):527-32

HRTEM study of biological crystal growth mechanisms in the vicinity of implanted synthetic hydroxyapatite crystals. Hemmerlé J, et al. **J Dent Res** 1997 Feb;76(2):682-7

HISTORY

Repairing holes in the head: a history of cranioplasty. Sanan A, et al. **Neurosurgery** 1997 Mar;40(3):588-603

METABOLISM

Influence of the structure of three corals on their resorption kinetics. Fricain JC, et al. **J Periodontal Res** 1996 Oct; 31(7):463-9

Analysis of sections of implanted macroporous calcium phosphate bone substitutes by proton-induced X-emission method and energy-dispersive spectrometry. Fraysinet P, et al. **Scanning** 1997 Jun;19(4):253-7

PHARMACOKINETICS

Resorption kinetics of osseous substitute: natural coral and synthetic hydroxyapatite. Braye F, et al. **Biomaterials** 1996 Jul;17(13):1345-50

PHARMACOLOGY

Viable bone formation in porous hydroxyapatite: marrow cell-derived in vitro bone on the surface of ceramics. Yoshikawa T, et al. **Biomed Mater Eng** 1997;7(1):49-58

Effect of calcium phosphate ceramics on gram-negative bacteria resistant to antibiotics. Opalchenova G, et al. **J Biomed Mater Res** 1996 Nov;32(3):473-9

[Gapkol--a new osteoplastic material] Aboiants RK, et al. **Stomatologiia (Mosk)** 1996;75(5):23-5 (Eng. Abstr.) **(Rus)**

[The characteristics of the contact area of an endoprosthesis made from Ostek graphite-based material and of the mandibular bone fragment] Grigor'ian AS, et al. **Stomatologiia (Mosk)** 1996;75(2):4-8 (Eng. Abstr.) **(Rus)**

STANDARDS

Improved fixation of porous-coated versus grit-blasted surface texture of hydroxyapatite-coated implants in dogs. Overgaard S, et al. **Acta Orthop Scand** 1997 Aug; 68(4):337-43

THERAPEUTIC USE

Use of coral grafts in anterior interbody fusion of the rabbit spine. Tho KS, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):824-7

Use of arthroscopy and interporous hydroxyapatite as a bone graft substitute in tibial plateau fractures. Itokazu M, et al. **Arch Orthop Trauma Surg** 1996;115(1):45-8

Bone replacement by ionomer cement in osteoplastic frontal sinus operations. Weber A, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S162-4

Polyactive as a bone-filler in a beagle dog model. Meijer GJ, et al. **Int J Oral Maxillofac Surg** 1996 Jun;25(3):210-16

Osteoinductive potential of freeze-dried, biodegradable, poly (glycolic acid-co-lactic acid) disks incorporated with bone morphogenetic protein in skull defects of rats. Miki T, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):402-6

Treatment of acute fractures with a collagen-calcium phosphate graft material. A randomized clinical trial. Chapman MW, et al. **J Bone Joint Surg Am** 1997 Apr; 79(4):495-502

BONE SUBSTITUTES

Self-regenerating bone implant: ectopic osteoinduction following intramuscular implantation of a combination of rhBMP-2, atelopeptide type I collagen and porous hydroxyapatite. Kusumoto K, et al.
J Craniomaxillofac Surg 1996 Dec;24(6):360–5

The role of a composite, demineralized bone matrix and bone marrow in the treatment of osseous defects. Tiedeman JJ, et al. **Orthopedics** 1995 Dec;18(12):1153–8

Re: A comparison of pulpal response to freeze-dried bone, calcium-hydroxide, and zinc oxide-eugenol in primary teeth in two cynomolgus monkeys. S Fadavi, AW Anderson. Pediatr Dent 18:52–56, 1996 [letter; comment] Langeland K. **Pediatr Dent** 1996 May-Jun;18(3):190–3. Comment on: Pediatr Dent 1996 Jan-Feb;18(1):52–6.

[Coral as support of traumatic articular compression. A prospective study of 23 cases involving the lower limb] de Peretti F, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(3):234–40 (Eng. Abstr.) **(Fre)**

[The experience of a clinical trial of bioceramic-based materials in dentistry] Balin VN, et al.
Stomatologiia (Mosk) 1996;75(5):45–7 (Eng. Abstr.) **(Rus)**

[The treatment of local gingival recession by using Kolapol] Barer GM, et al. **Stomatologiia (Mosk)** 1996;75(5):28–30 (Eng. Abstr.) **(Rus)**

[Hydroxyapatite as a substrate for osteoplasty: the theoretical and practical aspects of the problem] Bezrukov VM, et al. **Stomatologiia (Mosk)** 1996;75(5):7–12 (23 ref.) (Eng. Abstr.) **(Rus)**

[The enhanced efficacy of endodontic endosseous and endosseous implantation using Hydroxyapol] Goncharov IIu, et al. **Stomatologiia (Mosk)** 1996;75(5):42–4 (Eng. Abstr.) **(Rus)**

[The use of Hydroxyapol in filling in bone defects of the jaws and stimulating osteogenesis] Goncharov IIu, et al. **Stomatologiia (Mosk)** 1996;75(5):54–6 (Eng. Abstr.) **(Rus)**

[The enhancement of osseointegration with hydroxyapol in the surgical treatment of chronic periodontitis and periapical cysts] Goncharov IIu, et al.
Stomatologiia (Mosk) 1996;Spec No:50–1 **(Rus)**

[The fate of hydroxyapatite ceramic granulate when implanted in a secondary bone defect of the mandible] Grigor'ian AS, et al. **Stomatologiia (Mosk)** 1996;75(5):51–4 (Eng. Abstr.) **(Rus)**

[The dynamics of bone defect healing after the implantation of collagen and hydroxyapatite complexes (an experimental morphological study)] Grigor'ian AS, et al.
Stomatologiia (Mosk) 1996;75(5):13–6 (Eng. Abstr.) **(Rus)**

[The use of a Kolapol preparation for eliminating perforation of the floor of the maxillary sinus and defects in the maxillary alveolar process] Romanov IA, et al.
Stomatologiia (Mosk) 1996;75(5):48–50 (Eng. Abstr.) **(Rus)**

BONE TRANSPLANTATION

Massive autoclaved allografts and autografts for limb salvage surgery. A 1–8 year follow-up of 23 patients. Asada N, et al. **Acta Orthop Scand** 1997 Aug;68(4):392–5

Impacted graft incorporation after cemented acetabular revision. Histological evaluation in 8 patients. Buma P, et al. **Acta Orthop Scand** 1996 Dec;67(6):536–40

Reconstruction of tibia by ipsilateral vascularized fibula and allograft. 12 cases with malignant bone tumors. Ozaki T, et al. **Acta Orthop Scand** 1997 Jun;68(3):298–301

The use of bone graft for managing bone defects in complex total knee arthroplasty. Rosenberg AG.
Am J Knee Surg 1997 Winter;10(1):42–8 (15 ref.)

Assessment of posterior cruciate ligament graft performance using robotic technology. Stone JD, et al.
Am J Sports Med 1996 Nov-Dec;24(6):824–8

Reconstruction of a complex midfacial defect with the folded fibular free flap and osseointegrated implants. Anthony JP, et al. **Ann Plast Surg** 1996 Aug;37(2):204–10

Compound rib–latissimus dorsi osteomusculocutaneous flap in reconstruction of the upper arm. Onishi K, et al.
Ann Plast Surg 1996 Aug;37(2):191–4

Leg morbidity and function following fibular free flap harvest. Shpitzer T, et al. **Ann Plast Surg** 1997 May; 38(5):460–4

Distal upper extremity function following proximal humeral resection and reconstruction for tumors: contralateral comparison. Damron TA, et al. **Ann Surg Oncol** 1997 Apr-May;4(3):237–46

Revascularisation of bone allografts following vascular bundle implantation: an experimental study in rats. Kumta S, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):206–10

Fresh osteochondral allografts at the knee joint: good functional results in a follow-up study of more than 15 years. Salai M, et al. **Arch Orthop Trauma Surg** 1997; 116(6–7):423–5

Vascularized fibular grafts for the reconstruction of segmental tibial bone defects. Takami H, et al.
Arch Orthop Trauma Surg 1997;116(6–7):404–7

Repair of a complete glottic-subglottic stenosis with a fibular osseocutaneous free flap. Esclamado RM, et al.
Arch Otolaryngol Head Neck Surg 1997 Aug;123(8):877–9

Single versus two-incision arthroscopic anterior cruciate ligament reconstruction. Arciero RA, et al. **Arthroscopy** 1996 Aug;12(4):462–9

Management of patella fractures associated with central third bone-patella tendon-bone autograft ACL reconstructions. Berg EE. **Arthroscopy** 1996 Dec;12(6):756–9

Femoral interference screw placement through the tibial tunnel: a radiographic evaluation of interference screw divergence angles after endoscopic anterior cruciate ligament reconstruction. Brodie JT, et al. **Arthroscopy** 1996 Aug;12(4):435–40

Biomechanical comparison between BioScrew and titanium alloy interference screws for bone-patellar tendon-bone graft fixation in anterior cruciate ligament reconstruction. Caborn DN, et al. **Arthroscopy** 1997 Apr;13(2):229–32

Metal and biodegradable interference screws: comparison of failure strength. Johnson LL, et al. **Arthroscopy** 1996 Aug; 12(4):452–6

Arthroscopic-assisted posterior cruciate ligament reconstruction using patellar tendon autograft: a technique for graft passage. Mariani PP, et al. **Arthroscopy** 1996 Aug; 12(4):510–2

Comparison of screw post fixation and free bone block interference fixation for anterior cruciate ligament soft tissue grafts: biomechanical considerations. Novak PJ, et al. **Arthroscopy** 1996 Aug;12(4):470–3

Endoscopically assisted patella-tendon graft femoral fixation failure [letter; comment] Prietto MP. **Arthroscopy** 1997 Apr;13(2):281. Comment on: Arthroscopy 1996 Apr;12(2):232–5.

Autograft versus allograft anterior cruciate ligament reconstruction. Shelton WR, et al. **Arthroscopy** 1997 Aug; 13(4):446–9

Clinical degradation and biocompatibility of different bioabsorbable interference screws: a report of six cases. Stähelin AC, et al. **Arthroscopy** 1997 Apr;13(2):238–44

Femoral bone plug recession in endoscopic anterior cruciate ligament reconstruction. Taylor DE, et al. **Arthroscopy** 1996 Aug;12(4):513–5

Strength of the fixation of patellar tendon bone grafts using a totally absorbable self-reinforced poly-L-lactide expansion plug and screw. An experimental study in a bovine cadaver. Tuompo P, et al. **Arthroscopy** 1996 Aug; 12(4):422–7

European results of matched unrelated donor bone marrow transplantation for chronic myeloid leukemia. Impact of HLA class II matching. Chronic Leukemia Working Party of the European Group for Blood and Marrow Transplantation. Devergie A, et al.
Bone Marrow Transplant 1997 Jul;20(1):11–9

The role of autogenous primary rib grafts in treating fractures of the atrophic edentulous mandible. Newman L.
Br J Oral Maxillofac Surg 1995 Dec;33(6):381–6; discussion 386–7

Bone grafting of the floor of the maxillary sinus for the placement of endosseous implants. Raghoebar GM, et al. **Br J Oral Maxillofac Surg** 1997 Apr;35(2):119–25

Titanium implant for the osteosynthesis of massive allograft reconstruction to improve follow-up by magnetic resonance imaging. Exner GU, et al. **Bull Hosp Jt Dis** 1996; 54(3):140–5

The effect of autoclaving on the mechanical properties of bank bovine bone. Viceconti M, et al.
Chir Organi Mov 1996 Jan-Mar;81(1):63–8 **(Eng, Ita)**

Facial growth in primary bone grafted unilateral clefts [letter; comment] Grasseschi MF. **Cleft Palate Craniofac J** 1997 Mar;34(2):177. Comment on: Cleft Palate Craniofac J 1996 Sep;33(5):429–35.

Facial growth after primary periosteoplasty versus primary bone grafting in unilateral cleft lip and palate. Sameshima GT, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):300–5

Secondary alveolar bone grafting—five-year periodontal and radiographic evaluation in 100 consecutive cases. Tan AE, et al. **Cleft Palate Craniofac J** 1996 Nov;33(6):513–8

Elbow allograft for reconstruction of the elbow with massive bone loss. Long term results. Dean GS, et al.
Clin Orthop 1997 Aug;(341):12–22

Stability of proximal femoral grafts in canine hip arthroplasty. Heiner JP, et al. **Clin Orthop** 1997 Aug;(341):233–40

Particulate bioglass compared with hydroxyapatite as a bone graft substitute. Oonishi H, et al. **Clin Orthop** 1997 Jan; (334):316–25

Blood transfusion and bone allografts. Effect on infection and outcome. Tan MH, et al. **Clin Orthop** 1997 Jul; (340):207–14

Anterior cervical allograft arthrodesis and instrumentation: multilevel interbody grafting or strut graft reconstruction. Swank ML, et al. **Eur Spine J** 1997;6(2):138–43

Autogenous bone grafting of hallux sesamoid nonunions. Anderson RB, et al. **Foot Ankle Int** 1997 May;18(5):293–6

Quantitative analysis of cancellous bone graft available from the greater trochanter. Lindberg EJ, et al.
Foot Ankle Int 1996 Aug;17(8):473–6

Allogenic decalbone in glenoplasty for recurrent anterior dislocation of shoulder. Khare GN, et al.
Indian J Med Sci 1995 Aug;49(8):181–3

Retrospective analysis of one-stage maxillary sinus augmentation with endosseous implants. Blomqvist JE, et al. **Int J Oral Maxillofac Implants** 1996 Jul-Aug; 11(4):512–21

Reconstruction of the severely resorbed maxilla with dental implants in the augmented maxillary sinus: a 5-year clinical investigation. Hürzeler MB, et al.
Int J Oral Maxillofac Implants 1996 Jul-Aug;11(4):466–75

Treatment of peri-implantitis using guided bone regeneration and bone grafts, alone or in combination, in beagle dogs. Part 2: Histologic findings. Hürzeler MB, et al.
Int J Oral Maxillofac Implants 1997 Mar-Apr;12(2):168–75

Treatment of dehiscences and fenestrations around dental implants using resorbable and nonresorbable membranes associated with bone autografts: a comparative clinical study. Simion M, et al. **Int J Oral Maxillofac Implants** 1997 Mar-Apr;12(2):159–67

Rehabilitation of the resorbed maxilla and mandible using autogenous bone grafts and osseointegrated implants. Williamson RA. **Int J Oral Maxillofac Implants** 1996 Jul-Aug;11(4):476–88

Titanium implants and onlay bone graft to the atrophic edentulous maxilla: a 3-year longitudinal study. Astrand P, et al. **Int J Oral Maxillofac Surg** 1996 Feb;25(1):25–9

Factors in implant integration failure after bone grafting: an osteometric and endocrinologic matched analysis. Blomqvist JE, et al. **Int J Oral Maxillofac Surg** 1996 Feb; 25(1):63–8

Local bupivacaine infusion following bone graft harvest from the iliac crest. Hahn M, et al.
Int J Oral Maxillofac Surg 1996 Oct;25(5):400–1

Simultaneous placement of endosteal implants and mandibular onlay grafting for treatment of the atrophic mandible. A preliminary report. McGrath CJ, et al.
Int J Oral Maxillofac Surg 1996 Jun;25(3):184–8

The stability of maxillary advancement using Le Fort I osteotomy with and without genial bone grafting. Waite PD, et al. **Int J Oral Maxillofac Surg** 1996 Aug; 25(4):264–267

Preparation of bank bone using defatting, freeze-drying and sterilisation with ethylene oxide gas. Part 2. Clinical evaluation of its efficacy and safety. Kakiuchi M, et al.
Int Orthop 1996;20(3):147–52

Preparation of bank bone using defatting, freeze-drying and sterilisation with ethylene oxide gas. Part 1. Experimental evaluation of its efficacy and safety. Kakiuchi M, et al.
Int Orthop 1996;20(3):142–6

Toward determining construct mechanical optimality for fibular bone grafting in femoral head osteonecrosis. Sakamoto J, et al. **Iowa Orthop J** 1996;16:79–87

Bone-graft augmentation for acetabular deficiencies in total hip arthroplasty. Results of long-term follow-up evaluation. Lee BP, et al. **J Arthroplasty** 1997 Aug; 12(5):503–10

Appositional bone bridging of primary gaps in the dome area of uncemented, porous acetabular components. Onsten I. **J Arthroplasty** 1995 Oct;10(5):702–6

Reconstruction of massive bone defects with allograft in revision total knee arthroplasty. Ghazavi MT, et al.
J Bone Joint Surg Am 1997 Jan;79(1):17–25

The results of transplantation of intercalary allografts after resection of tumors. A long-term follow-up study. Ortiz-Cruz E, et al. **J Bone Joint Surg Am** 1997 Jan; 79(1):97–106

Bulk structural autogenous grafts and allografts for reconstruction of the acetabulum in total hip arthroplasty. Sixteen-year-average follow-up. Shinar AA, et al.
J Bone Joint Surg Am 1997 Feb;79(2):159–68

Avascular necrosis of the femoral head after allogenic bone-marrow transplantation. A retrospective study of 27 consecutive THAs with a minimal two-year follow-up. Bizot P, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):878–83

Atrophic nonunion of the clavicle: treatment by compression plate, lag-screw fixation and bone graft. Boyer MI, et al.
J Bone Joint Surg Br 1997 Mar;79(2):301–3

Histological features of large bone allografts. Gouin F, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):38–41

Femoral component revision using impacted morsellised cancellous graft. A biomechanical study of implant stability. Malkani AL, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):973–8

Resorption of hydroxyapatite and fluorapatite coatings in man. An experimental study in trabecular bone. Overgaard S, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):654–9

Aneurysmal bone cysts treated by curettage, cryotherapy and bone grafting. Schreuder HW, et al.
J Bone Joint Surg Br 1997 Jan;79(1):20–5 (37 ref.)

Evaluation of guided tissue regeneration in interproximal defects. (II). Membrane and bone versus membrane alone. Gouldin AG, et al. **J Clin Periodontol** 1996 May; 23(5):485–91

A clinical evaluation of a bioresorbable barrier with and without decalcified freeze-dried bone allograft in the treatment of molar furcations. Luepke PG, et al.
J Clin Periodontol 1997 Jun;24(6):440–6

Pain following iliac crest bone grafting of alveolar clefts. Dawson KH, et al. **J Craniomaxillofac Surg** 1996 Jun; 24(3):151–4

Aesthetic and functional reconstruction with the trapezius osseomyocutaneous flap and dental implants in oral cavity cancer patients. Navarro-Vila C, et al.
J Craniomaxillofac Surg 1996 Dec;24(6):322–9

Endosseous implants for prosthetic rehabilitation in bone grafted alveolar clefts. Ronchi P, et al.
J Craniomaxillofac Surg 1995 Dec;23(6):382–6

Introduction to bone grafting. Blitch EL, et al.
J Foot Ankle Surg 1996 Sep-Oct;35(5):458–62 (20 ref.)

The application of allograft bone in foot and ankle surgery. Catanzariti A, et al. **J Foot Ankle Surg** 1996 Sep-Oct; 35(5):440–51 (87 ref.)

Reconstruction of the diabetic Charcot foot incorporating bone grafts. Deresh GM, et al. **J Foot Ankle Surg** 1996 Sep-Oct;35(5):474–88

Bone grafting in the surgical management of osseous neoplasms. Leonheart EE, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):391–5

The use of bone grafts in the management of nonunions. Mendicino SS, et al. **J Foot Ankle Surg** 1996 Sep–Oct; 35(5):452–7 (23 ref.)

Comparison of bone transport and bone graft methods in the experimental treatment of bone defects. Huang SC. **J Formos Med Assoc** 1997 Jan;96(1):23–9

Treatment of a large segmental bone defect with allograft and autogenous bone marrow graft. Jean JL, et al. **J Formos Med Assoc** 1997 Jul;96(7):553–7

Bone graft contamination from a water de–ionizer during processing in a bone bank. Farrington M, et al. **J Hosp Infect** 1996 Jan;32(1):61–4

Evaluation of Ca–P coatings in animal experiments: importance of study design. Jansen JA, et al. **J Invest Surg** 1996 Nov–Dec;9(6):463–79 (26 ref.)

Anterior cervical interbody fusion using autogeneic and allogeneic bone graft substrate: a prospective comparative analysis. Bishop RC, et al. **J Neurosurg** 1996 Aug; 85(2):206–10

Stability of maxilla downgrafting after rigid or wire fixation. Major PW, et al. **J Oral Maxillofac Surg** 1996 Nov; 54(11):1287–91

Use of endosseous implants for dental reconstruction of patients with grafted alveolar clefts. Takahashi T, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):576–83; discussion 584

Maxillary sinus function after sinus lifts for the insertion of dental implants. Timmenga NM, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):936–9;discussion 940

Effects of ionizing radiation on the mechanical properties of human bone. Currey JD, et al. **J Orthop Res** 1997 Jan; 15(1):111–7

Patellar tendon and tibial tubercle reconstruction using quadriceps tendon with patellar bone plug autograft. Edwards TB, et al. **J Orthop Trauma** 1997 May;11(4):304–7

The necessity of acute bone grafting in diaphyseal forearm fractures: a retrospective review. Wright RR, et al. **J Orthop Trauma** 1997 May;11(4):288–94

Clinical and histologic observations of sites implanted with intraoral autologous bone grafts or allografts. 15 human case reports. Becker W, et al. **J Periodontol** 1996 Oct; 67(10):1025–33

A clinical evaluation of guided tissue regeneration with a bioabsorbable matrix membrane combined with an allograft bone graft. A series of case reports. Harris RJ. **J Periodontol** 1997 Jun;68(6):598–607

Comparison of bioabsorbable laminar bone membrane and non–resorbable ePTFE membrane in mandibular furcations. Scott TA, et al. **J Periodontol** 1997 Jul; 68(7):679–86

Abscess formation around a hydroxyapatite–coated implant placed into the extraction socket with autogenous bone graft. A histological study using light microscopy, image processing, and confocal laser scanning microscopy. Takeshita F, et al. **J Periodontol** 1997 Mar;68(3):299–305

The significance of tumor necrosis factor (TNF) levels for rejection of joint allograft. Watanabe H, et al. **J Reconstr Microsurg** 1997 Apr;13(3):193–7

Osteochondritis dissecans of the humeral head: treatment with a matched osteochondral allograft. Johnson DL, et al. **J Shoulder Elbow Surg** 1997 Mar–Apr;6(2):160–3

Nonunions of the surgical neck of the humerus: surgical treatment with an intramedullary bone peg, internal fixation, and cancellous bone grafting. Walch G, et al. **J Shoulder Elbow Surg** 1996 May–Jun;5(3):161–8

Rib graft or cement to enhance screw fixation in anterior vertebral bodies. Hernigou P, et al. **J Spinal Disord** 1996 Aug;9(4):322–5

Rigid intrasegmental fixation for repair of a pars defect in a young athlete: case report and description of technique. Jarolem KL, et al. **J Spinal Disord** 1997 Jun;10(3):253–5

Treatment of femoral shaft aseptic nonunions: comparison between closed and open bone–grafting techniques. Wu CC, et al. **J Trauma** 1997 Jul;43(1):112–6

Closure of the fibula free flap donor site with the Sure–Closure skin–stretching device. Futran ND. **Laryngoscope** 1996 Dec;106(12 Pt 1):1487–90

Management of contaminated bone grafts: an experimental in vitro study. Hooe W, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):34–7

Uncemented total knee arthroplasty: report of 109 titanium knees with cancellous–structured porous coating. Baldwin JL, et al. **Orthopedics** 1996 Feb;19(2):123–30

Reconstruction of major segmental loss of the proximal femur in revision total hip replacement. Chandler HP. **Orthopedics** 1997 Sep;20(9):801–3

Acetabular revision options. Christie MJ, et al. **Orthopedics** 1997 Sep;20(9):804–7

Revision total knee arthroplasty of bone grafts versus implant supplementation. Gross AE. **Orthopedics** 1997 Sep; 20(9):843–4

Vascularized fibular grafting compared with core decompression in the treatment of femoral head osteonecrosis [see comments] Kane SM, et al. **Orthopedics** 1996 Oct;19(10):869–72. Comment in: Orthopedics 1997 Apr;20(4):359.

Managing bone loss with augmentation. Stulberg SD. **Orthopedics** 1997 Sep;20(9):845–7

Re: A comparison of pulpal response to freeze–dried bone, calcium–hydroxide, and zinc oxide–eugenol in primary teeth in two cynomolgus monkeys. S Fadavi, AW Anderson. Pediatr Dent 18:52–56, 1996 [letter; comment] Langeland K. **Pediatr Dent** 1996 May–Jun;18(3):190–3. Comment on: Pediatr Dent 1996 Jan–Feb;18(1):52–6.

Refinement in cranial bone graft harvesting [letter] Cavadas PC. **Plast Reconstr Surg** 1997 Apr;99(4):1196

Use of a soft denture liner as a protective dressing for alveolar bone grafting [letter] Cheng CA, et al. **Plast Reconstr Surg** 1997 Jul;100(1):275–6

Distraction osteogenesis of costochondral neomandibles: a clinical experience. Corcoran J, et al. **Plast Reconstr Surg** 1997 Aug;100(2):311–5; discussion 316–7

Long–term assessment of early alveolar bone grafts using three–dimensional computer–assisted tomography: a pilot study. Dado DV, et al. **Plast Reconstr Surg** 1997 Jun; 99(7):1840–5

Free composite serratus anterior and rib flaps for tibial composite bone and soft–tissue defect. Lin CH, et al. **Plast Reconstr Surg** 1997 May;99(6):1656–65

Vascularized fibular graft for reconstruction of the wrist after excision of giant cell tumor. Ono H, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1086–93

Long–term outcome of extensive skull reconstruction using demineralized perforated bone in Siamese twins joined at the skull vertex. Salyer KE, et al. **Plast Reconstr Surg** 1997 May;99(6):1721–6

Repeated bone repositioning in the growing rabbit calvarium hampers bone segment incorporation. Zellin G, et al. **Plast Reconstr Surg** 1997 Sep;100(3):619–26

Avascular osteonecrosis of the femoral head treated with a vascularized iliac bone graft: preliminary results and follow–up with radiography and MR imaging. Wassenaar RP, et al. **Radiographics** 1996 May;16(3):585–94

Pseudarthrosis: US evaluation after posterolateral spinal fusion: work in progress. Jacobson JA, et al. **Radiology** 1997 Sep;204(3):853–8

Imaging of vascularized fibular grafts in large bone reconstruction in skeletally immature patients. Panuel M, et al. **Skeletal Radiol** 1997 Jul;26(7):404–8

Allograft bone use during instrumentation and fusion in the treatment of adolescent idiopathic scoliosis. Blanco JS, et al. **Spine** 1997 Jun 15;22(12):1338–42

Anterior iliac crest bone graft. Anatomic considerations. Ebraheim NA, et al. **Spine** 1997 Apr 15;22(8):847–9

The success of anterior cervical arthrodesis adjacent to a previous fusion. Hilibrand AS, et al. **Spine** 1997 Jul 15; 22(14):1574–9

Strength and stability of posterior lumbar interbody fusion. Comparison of titanium fiber mesh implant and tricortical bone graft. Hoshijima K, et al. **Spine** 1997 Jun 1; 22(11):1181–8

The effect of fibrin sealant on spinal fusions using allograft in dogs. Jarzem P, et al. **Spine** 1996 Jun 1;21(11):1307–12

Superior gluteal artery injury during iliac bone grafting for spinal fusion. A case report and literature review. Lim EV, et al. **Spine** 1996 Oct 15;21(20):2376–8 (10 ref.)

Cervical interbody xenograft with plate fixation: evaluation of fusion after 7 years of use in post–traumatic discoligamentous instability. Malca SA, et al. **Spine** 1996 Mar 15;21(6):685–90

Efficacy of implanted bone growth stimulation in instrumented lumbosacral spinal fusion. Rogozinski A, et al. **Spine** 1996 Nov 1;21(21):2479–83

Performing anterior cervical fusion with either autograft or allograft [letter] Segal HD. **Spine** 1996 May 15; 21(10):1276–7

Superior gluteal artery injury secondary to posterior iliac crest bone graft harvesting. A surgical technique to control hemorrhage. Shin AY, et al. **Spine** 1996 Jun 1;21(11):1371–4

Biomechanical analysis of hemipelvic deformation after corticospongious bone graft harvest from the posterior iliac crest. Varga E, et al. **Spine** 1996 Jul 1;21(13):1494–9

Freeze–dried allograft for posterior spinal fusion in patients with neuromuscular spinal deformities. Yazici M, et al. **Spine** 1997 Jul 1;22(13):1467–71

Neonatal bone fragments for the induction of xenograft acceptance: transplantation of xenogeneic hematopoietic stem cells and species–specific microenvironment for hematopoiesis. Murase N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1201

[Correction of alveolar cleft by bone graft in the patients with cleft lip and palate] Ma L, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):107–9 (Eng. Abstr.) **(Chi)**

[Microsurgical reconstructions of the lower face, after projectile injuries. Value of fibular flaps. Apropos of 20 cases] Bellavoir A, et al. **Chirurgie** 1997;122(3):203–5; discussion 205–6 (Eng. Abstr.) **(Fre)**

[Defect fractures of the tibia—various forms of bone replacement] Mittelmeier W, et al. **Chirurg** 1996 Nov; 67(11):1087–92 (30 ref.) (Eng. Abstr.) **(Ger)**

[Primary thumb replacement–plasty—44 years later (letter)] Ritzmann W. **Chirurg** 1996 Aug;67(8):865 **(Ger)**

[Bridging an extensive bone defect with cortico–spongious transplants in femoral fracture caused by gunshot injury] Komadina R, et al. **Unfallchirurg** 1996 Sep;99(9):701–3 (Eng. Abstr.) **(Ger)**

[Homologous talus replacement after talectomy in infection and septic talus necrosis. Experiences with 3 cases] Rzesacz EH, et al. **Unfallchirurg** 1997 Jun;100(6):497–501 (Eng. Abstr.) **(Ger)**

[HIV infection caused by cold preserved bone transplants] Schratt HE, et al. **Unfallchirurg** 1996 Sep;99(9):679–84 (Eng. Abstr.) **(Ger)**

[Inactivation of HIV–1 in human femur heads using a heat disinfection system (Lobator SD–1)] von Garrel T, et al. **Unfallchirurg** 1997 May;100(5):375–81 (Eng. Abstr.) **(Ger)**

[Bone transplantation: autologous material does not satisfy needs] **Z Orthop Ihre Grenzgeb** 1995 Dec;133(6 Suppl):1–8 **(Ger)**

[A simple technique for reconstruction of anterior and middle cranial base after palliative tumor resection] Piek J. **Zentralbl Neurochir** 1997;58(2):61–5 (Eng. Abstr.) **(Ger)**

[Bone bank—operational and professional aspects in the orthopedic community in Israel] Salai M, et al. **Harefuah** 1997 Mar 16;132(6):410–1 (10 ref.) **(Heb)**

[Bone grafts in orthopedic surgery] Tsuriel S, et al. **Harefuah** 1996 Nov 15;131(10):427–31 (37 ref.) **(Heb)**

[Free–flap fibula for the reconstruction of composite mandibular defects] Fasano D, et al. **Acta Otorhinolaryngol Ital** 1996 Feb;16(1):25–9 (Eng. Abstr.) **(Ita)**

[Use of bone grafts in acetabular wall deficit reconstruction during total hip replacement] Gaździk T. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):123–9 (Eng. Abstr.) **(Pol)**

[Reconstruction of the acetabular roof in cemented total hip replacement] Król R. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):371–7 (Eng. Abstr.) **(Pol)**

[Microsurgical autotransplantation of bone grafts using Russian instruments for bone processing] Garelik EI, et al. **Khirurgiia (Mosk)** 1997;(4):65–6 **(Rus)**

[Bone brephoplasty in the treatment of periodontitis patients] Sulimov AF, et al. **Stomatologiia (Mosk)** 1996;Spec No:80 **(Rus)**

[Transplantation in orthopedic surgery and traumatology] Cara JA, et al. **Rev Med Univ Navarra** 1994 Oct–Dec; 38(4):207–11 (15 ref.) (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Transmission of human T–cell lymphotrophic virus type 1 by a deep–frozen bone allograft. Sanzén L, et al. **Acta Orthop Scand** 1997 Feb;68(1):72–4

HIV transmitted by bone graft [news] Karcher HL. **BMJ** 1997 May 3;314(7090):1300

Cephalometric comparison of craniofacial morphology between primary bone grafted and nongrafted complete unilateral cleft lip and palate adults [see comments] Suzuki A, et al. **Cleft Palate Craniofac J** 1996 Sep;33(5):429–35. Comment in: Cleft Palate Craniofac J 1997 Mar;34(2);177.

Autogenous iliac crest bone graft. Complications and functional assessment. Goulet JA, et al. **Clin Orthop** 1997 Jun;(339):76–81

Donor site morbidity of the anterior iliac crest following cancellous bone harvest. Beirne JC, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):268–71

The immunosuppressive effect of fresh allogeneic bone graft in mice. Miura K, et al. **Int Orthop** 1997;21(2):122–6

Contamination of bone allografts: analysis of incidence and predisposing factors. Deijkers RL, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):161–6

Fatal mumps meningoencephalitis in a child with severe combined immunodeficiency after bone marrow transplantation. Bakshi N, et al. **J Child Neurol** 1996 Mar; 11(2):159–62

Infection associated with the use of allograft bone from the north east Scotland Bone Bank. Sutherland AG, et al. **J Hosp Infect** 1997 Mar;35(3):215–22

Morbidity from iliac crest bone harvesting. Kalk WW, et al. **J Oral Maxillofac Surg** 1996 Dec;54(12):1424–9; discussion 1430

Prospective evaluation of morbidity associated with iliac crest harvest for alveolar cleft grafting. Rudman RA. **J Oral Maxillofac Surg** 1997 Mar;55(3):219–23; discussion 223–4

HISTORY

Repairing holes in the head: a history of cranioplasty. Sanan A, et al. **Neurosurgery** 1997 Mar;40(3):588–603

The first description of the free vascularized bone transplant [letter] Liu J, et al. **Plast Reconstr Surg** 1997 Jan; 99(1):270–2

IMMUNOLOGY

Immunological transformations in the recipient of grafted allogeneic human bone. Hofmann GO, et al. **Arch Orthop Trauma Surg** 1997;116(3):143–50

Major histocompatibility complex restriction between hematopoietic stem cells and stromal cells in vivo. Hashimoto F, et al. **Blood** 1997 Jan 1;89(1):49–54

Bone allografts are immunogenic and may preclude subsequent organ transplants. Lee MY, et al. **Clin Orthop** 1997 Jul;(340):215–9

The immunosuppressive effect of fresh allogeneic bone graft in mice. Miura K, et al. **Int Orthop** 1997;21(2):122–6

Resource competition as a mechanism for B cell homeostasis. McLean AR, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5792–7

Possible use of fetal bone as two–step bone grafting material.

Iwata M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):991–4

Possible use of fetal bone as two–step bone grafting material—Part 2: Antigenicity of fetal bone and time suitable for fetal bone grafting. Iwata M, et al. **Transplant Proc** 1997 Jun;29(4):2283–7

[Frequency of cytotoxic and helper T–lymphocyte precursors in donors with alloreactivity to recipient histocompatibility antigens. Possible use in predicting acute graft vs host disease in bone marrow transplantation] Čukrová V, et al. **Cas Lek Cesk** 1997 Feb 5;136(3):80–4 (Eng. Abstr.) **(Cze)**

[Experimental studies of healing and antigenicity of sterilized bone transplants] Schratt HE, et al. **Chirurg** 1997 Jan; 68(1):77–83 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

A bone graft condensing syringe system for maxillofacial reconstructive surgery. Cheung LK, et al. **Br J Oral Maxillofac Surg** 1997 Aug;35(4):267–70

A method of harvesting corticocancellous bone chips for reconstructive maxillofacial surgery. Oikarinen K, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):103–5

Assessing the accuracy of a prototype drill guide for fibular graft placement in femoral head necrosis. Schnieders MJ, et al. **Iowa Orthop J** 1997;17:58–63

Reconstruction of mandibular continuity defects in dogs using poly (L–lactide) mesh and autogenic particulate cancellous bone and marrow: preliminary report. Kinoshita Y, et al. **J Oral Maxillofac Surg** 1997 Jul;55(7):718–23; discussion 723–4

Tissue reaction around miniplates used for the fixation of vascularized iliac crest bone grafts. Schön R, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):433–40

Transplanted demineralized bone graft in cranial reconstructive surgery. Moss SD, et al. **Pediatr Neurosurg** 1995;23(4):199–204; discussion 204–5

[Bone bank management using a thermal disinfection system (Lobator SD–1). A critical analysis] Hofmann C, et al. **Unfallchirurg** 1996 Jul;99(7):498–508 (Eng. Abstr.) **(Ger)**

[Vertebral body replacement with a rib segment block in transthoracic intervention] Vieweg U, et al. **Zentralbl Neurochir** 1996;57(3):136–42 (Eng. Abstr.) **(Ger)**

METHODS

Use of frozen cranial vault bone allografts in the repair of extensive cranial bone defects. Vanaclocha V, et al. **Acta Neurochir (Wien)** 1997;139(7):653–60

Intramedullary, antibiotic–loaded cemented, massive allografts for skeletal reconstruction. 26 cases compared with 19 uncemented allografts. Ozaki T, et al. **Acta Orthop Scand** 1997 Aug;68(4):387–91

Extracorporeal irradiation and incorporation of bone grafts. Autogeneic cortical grafts studied in rats. Voggenreiter G, et al. **Acta Orthop Scand** 1996 Dec;67(6):583–8

The role of allografts in tumour surgery. Choong PF. **Acta Orthop Scand Suppl** 1997 Feb;273:89–94

Impacted cancellous autograft for contained bone defects in total knee arthroplasty. Ries MD. **Am J Knee Surg** 1996 Spring;9(2):51–4

Use of coral grafts in anterior interbody fusion of the rabbit spine. Tho KS, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):824–7

Fibular free flap reconstruction of the "true" lateral mandibular defect. Anthony JP, et al. **Ann Plast Surg** 1997 Feb;38(2):137–46

Maxillary myxoma treated with wide resection and immediate reconstruction: a case report. Chen CT, et al. **Ann Plast Surg** 1997 Jul;39(1):87–93

The role of pedicled or free fibular grafts in knee arthrodesis. Hallock GG. **Ann Plast Surg** 1997 Jul;39(1):60–3 (14 ref.)

Subtotal midfacial/total nasal reconstruction following shotgun blast to the face employing composite microvascular serratus anterior rib, muscle, and scapular tip. Thomas WO, et al. **Ann Plast Surg** 1997 Mar; 38(3):291–5

Massive proximal femoral osteoarticular allograft. Bohm P, et al. **Arch Orthop Trauma Surg** 1996;115(2):100–3 (23 ref.)

Induced healing of aneurysmal bone cysts by demineralized bone particles. A report of two cases. Delloye C, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):141–5

Vascularized pedicle bone–grafting for nontraumatic avascular necrosis of the femoral head. A 5– to 11–year follow–up. Hasegawa Y, et al. **Arch Orthop Trauma Surg** 1997;116(5):251–8

Oromandibular reconstruction with the fibular free flap. Analysis of 50 consecutive flaps. Shpitzer T, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):939–44

Bone–patellar tendon–bone grafts for anterior cruciate ligament reconstruction: the effects of graft pretensioning. Howard ME, et al. **Arthroscopy** 1996 Jun;12(3):287–92

Local arthroscopic bone grafting of a juxta–articular glenoid bone cyst. Lee SB, et al. **Arthroscopy** 1997 Aug;13(4):502–6

Fixation strength of a biodegradable interference screw and a press–fit technique in anterior cruciate ligament reconstruction with a BPTB graft. Rupp S, et al. **Arthroscopy** 1997 Feb;13(1):61–5

Arthroscopic bone peg fixation in the treatment of osteochondritis dissecans in the knee. Victoroff BN, et al. **Arthroscopy** 1996 Aug;12(4):506–9

Biomechanical and histological evaluation of a hydroxyapatite–coated titanium femoral stem fixed with an intramedullary morsellized bone grafting technique: an animal experiment on goats. Schreurs BW, et al. **Biomaterials** 1996 Jun;17(12):1177–86

The trouble with bone allograft [editorial] Norman–Taylor FH, et al. **BMJ** 1997 Aug 30;315(7107):498

Use of epidural catheter for postoperative pain relief for bone harvesting from iliac crest. Dunstan SP, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):436–7

Mandibular reconstruction with full thickness calvarial bone and temporal muscle flap. Grätz KW, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):379–85

Repair of experimental mandibular defects in rats with autogenous, demineralised, frozen and fresh bone. Redondo LM, et al. **Br J Oral Maxillofac Surg** 1997 Jun;35(3):166–9

The quadrifoliate flap: a combination of scapular, parascapular, latissimus dorsi and scapula bone flaps. Bakhach J, et al. **Br J Plast Surg** 1996 Oct;49(7):477–81

Titanium mesh and bone dust calvarial patch during cranioplasty. O'Broin ES, et al. **Cleft Palate Craniofac J** 1997 Jul;34(4):354–6

Osteochondral allografts with an intramedullary muscle flap in rabbits. Brown DM, et al. **Clin Orthop** 1997 Jan; (334):282–90

Vascularized iliac bone graft for avascular necrosis of the femoral head. Ishizaka M, et al. **Clin Orthop** 1997 Apr; (337):140–8

Cementation of primary aneurysmal bone cysts. Ozaki T, et al. **Clin Orthop** 1997 Apr;(337):240–8

Effect of cortical perforations of both graft and host bed on onlay incorporation to the rat skull. Alberius P, et al. **Eur J Oral Sci** 1996 Oct–Dec;104(5–6):554–61

Replacement of the lateral malleolus of the ankle joint with a reversed proximal fibular bone graft. Herring CL Jr, et al. **Foot Ankle Int** 1997 Jun;18(6):317–23

Anterior sliding graft for tibiotalar arthrodesis. Patterson BM, et al. **Foot Ankle Int** 1997 Jun;18(6):330–4

Tibial reconstruction by ipsilateral vascularized fibular transfer. Khan MZ, et al. **Injury** 1996 Nov;27(9):651–4

Maxillary augmentation with a microvascularly anastomosed fibula: a preliminary report. Bähr W. **Int J Oral Maxillofac Implants** 1996 Nov–Dec;11(6):719–27

Augmentation of the maxillary sinus floor with particulated mandible: a histologic and histomorphometric study. Lundgren S, et al. **Int J Oral Maxillofac Implants** 1996 Nov–Dec;11(6):760–6

Limits of the mandibular symphysis as a donor site for bone grafts in early secondary cleft palate osteoplasty. Bähr W, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):389–93

Autogenous onlay bone grafts fixed with screw implants for the treatment of severely resorbed maxillae. Radiographic evaluation of preoperative bone dimensions, postoperative bone loss, and changes in soft–tissue profile. Nyström E, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):351–9

A method of harvesting corticocancellous bone chips for reconstructive maxillofacial surgery. Oikarinen K, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):103–5

Functional reconstruction in a case of osteoblastoma of the mandibular condyle. Rasse M, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):344–5

Reconstruction of the mandible by prefabricated autogenous bone grafts. An experimental study in minipigs. Schliephake H, et al. **Int J Oral Maxillofac Surg** 1997 Aug;26(4):244–52

A modification of the tibial bone–graft–harvesting technique. van Damme PA, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):346–8

Mandibular bone graft in the anterior maxilla for single–tooth implants. Presentation of surgical method. Widmark G, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):106–9

Massive early subsidence following femoral impaction grafting. Eldridge JD, et al. **J Arthroplasty** 1997 Aug; 12(5):535–40

Effects of grafting on porous metal ingrowth. A canine model. Lewis CG, et al. **J Arthroplasty** 1997 Jun; 12(4):451–60

Evolution of the bone–titanium interface on implants coated/noncoated with xenogeneic bone particles: quantitative microscopic analysis. Chappard D, et al. **J Biomed Mater Res** 1996 Oct;32(2):175–80

Histomorphometric and molecular biologic comparison of bioactive glass granules and autogenous bone grafts in augmentation of bone defect healing. Virolainen P, et al. **J Biomed Mater Res** 1997 Apr;35(1):9–17

Treatment of segmental defects of the radius with use of the vascularized osteoseptocutaneous fibular autogenous graft. Jupiter JB, et al. **J Bone Joint Surg Am** 1997 Apr; 79(4):542–50

Cancellous grafting and external fixation for unstable Colles' fractures. Cannegieter DM, et al. **J Bone Joint Surg Br** 1997 May;79(3):428–32

Bone allograft: a cause for concern? [editorial] Norman–Taylor FH, et al. **J Bone Joint Surg Br** 1997 Mar; 79(2):178–80 (38 ref.)

Human histologic evaluation of HTR polymer and freeze–dried bone allograft. A case report. Froum SJ. **J Clin Periodontol** 1996 Jul;23(7):615–20

Repair of human skull defects using osteoinductive bone alloimplants. Kübler N, et al. **J Craniomaxillofac Surg** 1995 Dec;23(6):337–46

Tooth eruption through autogenous and xenogenous bone transplants: a histological and radiographic evaluation in beagle dogs. Merkx MA, et al. **J Craniomaxillofac Surg** 1997 Aug;25(4):212–9

Prefabrication of combined scapula flaps for microsurgical reconstruction in oro–maxillofacial defects: a new method [letter; comment] Téot L. **J Craniomaxillofac Surg** 1997 Jun;25(3):174. Comment on: J Craniomaxillofac Surg 1996 Aug;24(4):214–23.

Prefabrication of combined scapula flaps for microsurgical reconstruction in oro–maxillofacial defects: a new method [see comments] Vinzenz KG, et al. **J Craniomaxillofac Surg** 1996 Aug;24(4):214–23. Comment in: J Craniomaxillofac Surg 1997 Jun;25(3):174.

Experience with the osteocutaneous fibula flap: an analysis of 24 consecutive reconstructions of composite mandibular defects. Wolff KD, et al. **J Craniomaxillofac Surg** 1996 Dec; 24(6):330–8

Bone grafting for reconstructive osteotomies of the foot. Alter SA, et al. **J Foot Ankle Surg** 1996 Sep–Oct; 35(5):418–27 (39 ref.)

Different forms of bone grafts. Bollo A, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):400–5

Graft–enhanced arthrodesis. Catanzariti AR. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):463–73 (31 ref.)

Autogenous bone grafting. Hofbauer MH, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):386–90

Uses of Grafton for reconstructive foot and ankle surgery. Kado KE, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):59–66

Techniques for harvesting autogenous bone graft of the lower extremity. Mendicino RW, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):428–35

Free vascularized bone graft. Storm TR, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):436–9

The lateral epicondyle as a bone graft donor site in procedures about the elbow. Charles LM, et al. **J Hand Surg [Am]** 1997 May;22(3):547–9

A cadaveric anatomic study of radial artery pedicle grafts to the scaphoid and lunate. Hurlbut PT, et al. **J Hand Surg [Am]** 1997 May;22(3):408–12

Repeat screw stabilization with bone grafting after a failed Herbert screw fixation for acute scaphoid fractures and nonunions. Inoue G, et al. **J Hand Surg [Am]** 1997 May; 22(3):413–8

External fixation and cancellous bone grafting for Kienböck's disease: a preliminary report. Zelouf DS, et al. **J Hand Surg [Am]** 1996 Sep;21(5):746–53

Use of a bone block graft from the iliac crest with rigid fixation to correct diaphyseal defects of the radius and ulna. Barbieri CH, et al. **J Hand Surg [Br]** 1997 Jun;22(3):395–401

Experience with scaphoid grafting. Barton NJ. **J Hand Surg [Br]** 1997 Apr;22(2):153–60

Treatment of scaphoid nonunions with a vascularized bone graft based on the first dorsal metacarpal artery. Yuceturk A, et al. **J Hand Surg [Br]** 1997 Jun;22(3):425–7

Sinus inlay bone augmentation: comparison of implant positioning after one– or two–staged procedures. Blomqvist JE, et al. **J Oral Maxillofac Surg** 1997 Aug;55(8):804–10

Effect of decalcified freeze–dried bone allograft on the healing of jaw defects after cyst enucleation. Bodner L. **J Oral Maxillofac Surg** 1996 Nov;54(11):1282–6

Vascularized bone flap for access to the maxillary sinus. Choung PH, et al. **J Oral Maxillofac Surg** 1997 Aug; 55(8):832–5

Cranial bone graft to reconstruct the mandibular condyle in Macaca mulatta. Dodson TB, et al. **J Oral Maxillofac Surg** 1997 Mar;55(3):260–7

Surgical treatment of recurrent mandibular dislocation by augmentation of the articular eminence with cranial bone. Fernandez–Sanroman J. **J Oral Maxillofac Surg** 1997 Apr; 55(4):333–8; discussion 338–9

Advantages and limitations of the fibula free flap in mandibular reconstruction. Ferri J, et al. **J Oral Maxillofac Surg** 1997 May;55(5):440–8; discussion 448–9

Orbital floor reconstruction with autogenous mandibular symphyseal bone grafts. Krishnan V, et al. **J Oral Maxillofac Surg** 1997 Apr;55(4):327–30; discussion 330–2

Bone graft stabilization using knitted Dexon mesh. Miloro M, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):1026–8

Augmentation of localized defects of the anterior maxillary ridge with autogenous bone before insertion of implants. Raghoebar GM, et al. **J Oral Maxillofac Surg** 1996 Oct; 54(10):1180–5; discussion 1185–6

Evaluation of ground cortical autograft as a bone graft material in a new canine bilateral segmental long bone defect model. Johnson KD, et al. **J Orthop Trauma** 1996; 10(1):28–36

The use of endosteal substitution in the treatment of recalcitrant nonunions of the femur: report of seven cases. Matelic TM, et al. **J Orthop Trauma** 1996;10(1):1–6

Distal tibial nonunion treated by intramedullary reaming with external immobilization. Wu CC, et al. **J Orthop Trauma** 1996;10(1):45–9

Histologic evaluation of human extraction sockets treated with demineralized freeze–dried bone allograft (DFDBA) and cell occlusive membrane. Brugnami F, et al. **J Periodontol** 1996 Aug;67(8):821–5

Osseous repair of a lateral periodontal cyst. Lehrhaupt NB, et al. **J Periodontol** 1997 Jun;68(6):608–11

A clinical evaluation of demineralized freeze–dried bone

allograft in combination with tetracycline in the treatment of periodontal osseous defects. Masters LB, et al. **J Periodontol** 1996 Aug;67(8):770–81

Re: Ability of commercial demineralized freeze–dried bone allograft to induce new bone formation (1996;67:918–26) [letter] Russell J, et al. **J Periodontol** 1997 Aug;68(8):804–6

Re: Ability of commercial demineralized freeze–dried bone allograft to induce new bone formation (1996;67:918–926) [letter] Wlodarski KH, et al. **J Periodontol** 1997 Aug; 68(8):806–7

Clinical evaluation of demineralized–unicortical–ilium–strips for guided tissue regeneration. Yamaoka SB, et al. **J Periodontol** 1996 Aug;67(8):803–15

Reconstruction of mandibular discontinuity defects with delayed nonvascularized free iliac crest bone grafts and endosseous implants: a clinical report. Hotz G. **J Prosthet Dent** 1996 Oct;76(4):350–5

Free split iliac–bone flap transfer based on the superior gluteal vessels: anatomy and case reports. Reddy DM, et al. **J Reconstr Microsurg** 1997 May;13(4):229–35

Open reduction and internal fixation with bone grafting of clavicular nonunion. Ebraheim NA, et al. **J Trauma** 1997 Apr;42(4):701–4

The repeated sampling bone chamber: a new permanent titanium implant to study bone grafts in the goat. Lamerigts N, et al. **Lab Anim Sci** 1997 Aug;47(4):401–6

A long–term study of the donor–site ankle after vascularized fibula grafts in children. Omokawa S, et al. **Microsurgery** 1996;17(3):162–6

Reconstruction of the lateral malleolus using a reverse–flow vascularized fibular head: a case report. Rajacic N, et al. **Microsurgery** 1996;17(3):158–61

Secondary contour reconstruction of maxillectomy defects with a bone graft vascularized by flowthrough from radial vascular system. Yamada A, et al. **Microsurgery** 1996; 17(3):141–5

Cervical osteoplastic laminotomy using autogenous bone. Yamagami T, et al. **Neurol Med Chir (Tokyo)** 1996 Feb; 36(2):111–4

Cranioplasty with bone flaps preserved under the scalp. Paşaoğlu A, et al. **Neurosurg Rev** 1996;19(3):153–6

Anterior decompression and fusion using bone grafts obtained from cervical vertebral bodies for ossification of the posterior longitudinal ligament of the cervical spine: technical note. Isu T, et al. **Neurosurgery** 1997 Apr; 40(4):866–9; discussion 869–70

Use of a split bone graft to correct the cosmetic deformity associated with the transpetrosal–transtentorial surgical approach: technical report. Nakamura M, et al. **Neurosurgery** 1997 May;40(5):1089–91

Unusual complications at iliac crest bone graft donor site: experience with two cases. Porchet F, et al. **Neurosurgery** 1996 Oct;39(4):856–9

Cosmetic reconstruction after mastoidectomy for the transpetrosal–presigmoid approach: technical note. Tokoro K, et al. **Neurosurgery** 1996 Jul;39(1):186–8

Radiographic comparison of osseous healing after maxillary sinusotomy performed with and without a periosteal pedicle. Choi BH, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Oct;82(4):375–8

Reconstruction of alveolar bone defects after extraction of mandibular third molars: a pilot study. Dodson TB. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):241–7

Revision total knee arthroplasty–structural bone grafting: when and how. Chandler HP. **Orthopedics** 1996 Sep; 19(9):797–9

Impaction autograft enhancement of femoral stem fixation in primary cementless THA. Keblish PA, et al. **Orthopedics** 1996 Sep;19(9):759–62

Augmentation options in total knee replacement. Sculco TP. **Orthopedics** 1996 Sep;19(9):800–1

Minimally invasive iliac cancellous bone graft harvesting. Boustred AM, et al. **Plast Reconstr Surg** 1997 May; 99(6):1760–4

Bone induction using demineralized bone in the rabbit femur: a long–term study. Concannon MJ, et al. **Plast Reconstr Surg** 1997 Jun;99(7):1983–8

Bilateral mandibular angle reconstruction with a single free vascularized fibula flap. Reychler H, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1411–4

Allograft prosthetic composite replacement for bone tumors. Hejna MJ, et al. **Semin Surg Oncol** 1997 Jan–Feb; 13(1):18–24

Allograft reconstructions. Springfield DS. **Semin Surg Oncol** 1997 Jan–Feb;13(1):11–7 (28 ref.)

Comparison of formalin preserved bone allograft in the form of a paste and as bone chips in fresh femoral shaft fractures with comminution. Nagi ON, et al. **Singapore Med J** 1997 Feb;38(2):62–7

Ceramic anterior spinal fusion. Biologic and biomechanical comparison in a canine model. Emery SE, et al. **Spine** 1996 Dec 1;21(23):2713–9

The effects of internal fixation on calcium carbonate. Ceramic anterior spinal fusion in dogs. Fuller DA, et al. **Spine** 1996 Sep 15;21(18):2131–6

Biomechanical analysis of multilevel fixation methods in the lumbar spine. Glazer PA, et al. **Spine** 1997 Jan 15; 22(2):171–82

Biocompatible osteoconductive polymer versus iliac graft. A prospective comparative study for the evaluation of fusion pattern after anterior cervical discectomy. Madawi AA, et al. **Spine** 1996 Sep 15;21(18):2123–9; discussion 2129–30

Vascularized bone marrow allotransplantation in rats prolongs a simultaneous skin allograft. Tsuchida Y, et al. **Transplant Proc** 1997 May;29(3):1732–3

Treatment of tibial defects due to osteomyelitis by postero–lateral cortico–cancellous bone grafting. Beaso J. **Trop Doct** 1996 Jul;26(3):118–20

Prevention of postoperative late kyphosis in Pott's disease by anterior decompression and intervertebral grafting. Korkusuz F, et al. **World J Surg** 1997 Jun;21(5):524–8

[Reconstruction of the loss of bone substance of the forearm by cubitalization of the radius (one bone forearm). Apropos of 6 cases] Bessy H, et al. **Ann Chir Main Memb Super** 1996;15(4):199–211 (Eng. Abstr.) **(Fre)**

[Free bone flaps in esthetic and functional rehabilitation after segmental mandibulectomy. Apropos of 38 cases] Julieron M, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(6):353–8 (Eng. Abstr.) **(Fre)**

[Cryopreservation and bone transplantation] Dutoit M. **Swiss Surg** 1995;(4):202–4 (Eng. Abstr.) **(Fre)**

[Use of allogeneic cortical bone for femoral defect repair in combination with cemented hip total endoprosthesis––an experimental study of dogs] Ott K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:459–64 (Eng. Abstr.) **(Ger)**

[Massive allogeneic cortical transplants in therapy of primary and secondary bone tumors] Voggenreiter G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:921–4 (Eng. Abstr.) **(Ger)**

[Acetabular fractures in elderly persons. Primary endoprosthetic treatment] Hoellen IP, et al. **Orthopade** 1997 Apr;26(4):348–53 (Eng. Abstr.) **(Ger)**

[Possibilities and limits of segment transport and autologous spongiosa–plasty] Höntzsch D. **Unfallchirurg** 1996 Jan; 99(1):76–7 **(Ger)**

[Alloplastic bone replacement in resection defects of the long bones] Lembcke O, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep–Oct;134(5):441–4 (Eng. Abstr.) **(Ger)**

[Osteoplasty in mandibular defects] Abdullaev ShIu. **Stomatologiia (Mosk)** 1996;75(6):71–2 **(Rus)**

[Osteoplasty and ozone therapy in the treatment of a severe degree of generalized periodontitis] Chuprunova IN. **Stomatologiia (Mosk)** 1996;Spec No:90–1 **(Rus)**

[A method for autologous osteochondroplasty in extensive defects of the femur head] Marakusha IG, et al. **Vestn Khir Im I I Grek** 1996;155(2):95–8 **(Rus)**

[An experimental and clinical assessment of the properties of bone grafts demineralized with hydrobromic acid] Savel'ev VI, et al. **Vestn Khir Im I I Grek** 1996;155(5):40–1 **(Rus)**

[20–year experience in obliteration of the frontal sinuses with formalinized allobrephobone in chronic frontal sinusitis] Chufistov ME, et al. **Vestn Otorinolaringol** 1997;(2):41–3 (Eng. Abstr.) **(Rus)**

[Outcomes of heterobrephomastoidoplasty in surgical treatment of chronic otitis media purulent in children] Khasanov SA, et al. **Vestn Otorinolaringol** 1997;(2):17–8 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Bone morphogenetic protein promotes vascularization and osteoinduction in preformed hydroxyapatite in the rabbit. Levine JP, et al. **Ann Plast Surg** 1997 Aug;39(2):158–68

Detection of donor–derived Langerhans cells in MHC class II immunodeficient patients after allogeneic bone marrow transplantation. Emile JF, et al. **Br J Haematol** 1997 Aug; 98(2):480–4

Ultrastructural identification of cells involved in the healing of intramembranous and endochondral bones. Rabie AB, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):383–8

Bone structure and turnover in the distal radius and iliac crest: a histomorphometric study. Schnitzler CM, et al. **J Bone Miner Res** 1996 Nov;11(11):1761–8

Autogenous cancellous bone graft incorporation in a gap defect in the canine femur. Miclau T, et al. **J Orthop Trauma** 1996;10(2):108–13

Molecular methods of enhancing lumbar spine fusion. Sheehan JP, et al. **Neurosurgery** 1996 Sep;39(3):548–54

The fate of preserved autogenous bone graft. DeLuca L, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1324–8

PHYSIOLOGY

Early biologic behavior of bone grafts. A fine needle aspiration cytology study. Garg M, et al. **Acta Cytol** 1997 May–Jun;41(3):765–70

Ethylene oxide does not extinguish the osteoinductive capacity of demineralized bone. A reappraisal in rats. Zhang Q, et al. **Acta Orthop Scand** 1997 Apr;68(2):104–8

Effect of volume variations on osteogenic capabilities of autogenous cancellous bone graft in dogs. DeVries WJ, et al. **Am J Vet Res** 1996 Oct;57(10):1501–5

Topographically induced bone formation in vitro: implications for bone implants and bone grafts. Gray C, et al. **Bone** 1996 Feb;18(2):115–23

Characterization and cloning of the E11 antigen, a marker expressed by rat osteoblasts and osteocytes. Wetterwald A, et al. **Bone** 1996 Feb;18(2):125–32

Biologic responses of autogenous bone and beta–tricalcium phosphate ceramics transplanted into bone defects to orthodontic forces. Hossain MZ, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):277–83

Effect of cortical perforations of both graft and host bed on onlay incorporation to the rat skull. Alberius P, et al. **Eur J Oral Sci** 1996 Oct–Dec;104(5–6):554–61

Bone tissue reactions to demineralized freeze–dried bone in conjunction with e–PTFE barrier membranes in man. Donath K, et al. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 1)):96–101

Three phase bone scanning and digital arteriograms for monitoring vascularized fibular grafts in femoral head necrosis. Malizos KN, et al. **Int Angiol** 1995 Sep; 14(3):319–26

Effect of basic fibroblast growth factor on angiogenesis and growth of isografted bone: quantitative in vitro–in vivo analysis in mice. Leunig M, et al. **Int J Microcirc Clin Exp** 1997 Jan–Feb;17(1):1–9

Integration of endochondral bone grafts in the presence of demineralized bone matrix. Rabie AB, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):311–8

Comparative left–right mechanical testing of cancellous bone from normal femoral heads. Banse X, et al. **J Biomech** 1996 Oct;29(10):1247–53

Fluid conductance of cancellous bone graft as a predictor for graft–host interface healing. Hui PW, et al. **J Biomech** 1996 Jan;29(1):123–32

Kinetics of cortical bone demineralization: controlled demineralization––a new method for modifying cortical bone allografts. Lewandrowski KU, et al. **J Biomed Mater Res** 1996 Jul;31(3):365–72

Critical biological determinants of incorporation of non–vascularized cortical bone grafts. Quantification of a complex process and structure. Stevenson S, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):1–16

Failure of onlay bone grafts to integrate over the calvarial suture: observations in adult isogeneic rats. Alberius P, et al. **J Craniomaxillofac Surg** 1996 Aug;24(4):251–5

Biological principles of bone graft healing. Cypher TJ, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):413–7

Mandibular reconstruction with a free vascularized fibula flap and osseointegrated implants: a report of four cases. Reychler H, et al. **J Oral Maxillofac Surg** 1996 Dec; 54(12):1464–9

Ability of commercial demineralized freeze–dried bone allograft to induce new bone formation [see comments] Schwartz Z, et al. **J Periodontol** 1996 Sep;67(9):918–26. Comment in: J Periodontol 1996 Sep;67(9):946–8.

Is there a role for DFDBA in periodontal regenerative therapy? [editorial; comment] Somerman MJ. **J Periodontol** 1996 Sep;67(9):946–8. Comment on: J Periodontol 1996 Sep;67(9):918–26.

Expression of extracellular matrix macromolecules around demineralized freeze–dried bone allografts. Xiao Y, et al. **J Periodontol** 1996 Nov;67(11):1233–44

Comparison of vascularised iliac crest and vascularised fibula transfer for reconstruction of segmental and partial bone defects in long bones of the lower extremity. Hierner R, et al. **Microsurgery** 1995;16(12):818–26

Biomechanical studies of transthoracic vertebral body replacement with autologous bone grafts (fibula and rib). Kaden B, et al. **Neurosurg Rev** 1996;19(1):17–21

Influence of surrounding soft tissues on onlay bone graft incorporation. Alberius P, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):22–33

Tissue reaction around miniplates used for the fixation of vascularized iliac crest bone grafts. Schön R, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):433–40

Onlay bone graft behaviour after marrow exposure of the recipient rat skull bone. Alberius P, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Dec; 30(4):257–66

Expansive cervical laminoplasties––observations on comparative changes in spinous process lengths following longitudinal laminal divisions using autogenous bone or hydroxyapatite spacers. Hoshi K, et al. **Spinal Cord** 1996 Dec;34(12):725–8

[A new model of in vivo analysis of microcirculation of osteomyocutaneous flaps] Rücker M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:515–7 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Massive bone allografts for limb salvage. Patel SR, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):543–6

Radiographic assessment of secondary autogenous alveolar bone grafting in cleft lip and palate patients. Kindelan JD, et al. **Cleft Palate Craniofac J** 1997 May;34(3):195–8

Comparison of 2–D calculations from periapical and occlusal radiographs versus 3–D calculations from CAT scans in determining bone support for cleft–adjacent teeth following early alveolar bone grafts. Rosenstein SW, et al. **Cleft Palate Craniofac J** 1997 May;34(3):199–205

Radiographic evaluation of bone grafts. Nigro N, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):378–85

Clinical and computed tomographic findings in costochondral grafts replacing the mandibular condyle. Raustia A, et al. **J Oral Maxillofac Surg** 1996 Dec; 54(12):1393–400; discussion 1400–1

BONE TRANSPLANTATION

RADIONUCLIDE IMAGING

Scintigraphy of lower extremity cadaveric bone allografts in osteosarcoma patients. Bar-Sever Z, et al. **Clin Nucl Med** 1997 Aug;22(8):532–5

Clinical effectiveness of 99mTc-diphosphonate scintigraphy of revascularized iliac crest flaps. Smeele LE, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):366–9

STATISTICS & NUMERICAL DATA

Nationwide survey of bone grafting performed from 1980 through 1989 in Japan. Iwamoto Y, et al. **Clin Orthop** 1997 Feb;(335):292–7

ULTRASONOGRAPHY

Application of B-scan ultrasonography for analysis of callus distraction in vascularized fibular grafts of the mandible: a report of three patients. Friedrich RE, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):635–40

VETERINARY

Repair of a comminuted femoral fracture in a cat using cortical and cancellous bone grafting techniques. Harasen G. **Can Vet J** 1997 Sep;38(9):574–5

Arthrodesis of the equine distal tarsal joints by perforated stainless steel cylinders. Archer RM, et al. **Equine Vet J Suppl** 1988 Sep;(6):125–30

Experimental use of small osteochondral grafts for resurfacing the equine third carpal bone. Hurtig MB. **Equine Vet J Suppl** 1988 Sep;(6):23–7

Collection of corticocancellous bone graft from the ilium of the dog using an acetabular reamer. Culvenor JA, et al. **J Small Anim Pract** 1996 Nov;37(11):513–5

Total replacement of the metatarsophalangeal joint in the horse. A single pilot study. Stolk PW, et al. **Vet Q** 1996; 18 Suppl 2:S90–3

Deep-frozen allogeneic cancellous bone grafts in 10 dogs: a case series. Kerwin SC, et al. **Vet Surg** 1996 Jan–Feb; 25(1):18–28

BONE TUBERCULOSIS see **TUBERCULOSIS, OSTEOARTICULAR**

BONE WIRES

Technique for securing guide wires in cannulated screw systems. Roux MA, et al. **Am J Orthop** 1996 Oct;25(10):726

Absorbable polylactide pins versus metallic Kirschner wires in the fixation of cancellous bone osteotomies in rats. Viljanen J, et al. **Ann Chir Gynaecol** 1997;86(1):66–73

Bead and wire intermaxillary fixation. Hataya Y, et al. **Ann Plast Surg** 1997 Jun;38(6):632–4

Endoscopic-assisted wire removal and neurolysis. Ramirez OM, et al. **Ann Plast Surg** 1996 Aug;37(2):184–6

Mechanical testing of the tension band wire fixation in the proximal femur. Engel EE, et al. **Arch Orthop Trauma Surg** 1997;116(5):266–70

Tibial avulsion fracture of the posterior cruciate ligament: K-wire or screw fixation? A retrospective study of 26 patients. Seitz H, et al. **Arch Orthop Trauma Surg** 1997; 116(5):275–8

Measuring stability of wire cerclage in femoral fractures when performing total hip replacement. In vitro study on a standardized bone model. Wagner M, et al. **Arch Orthop Trauma Surg** 1996;115(1):33–7

Suspended circummandibular wire fixation for mixed-dentition pediatric mandible fractures. Nishioka GJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul; 123(7):753–8

Consistent and accurate graft passage and interference screw guide wire placement during single incision anterior cruciate ligament reconstruction. McGuire DA, et al. **Arthroscopy** 1997 Aug;13(4):526–9

An audit of mandibular fractures treated by intermaxillary fixation, intraosseous wiring and compression plating. Zachariades N, et al. **Br J Oral Maxillofac Surg** 1996 Aug; 34(4):293–7

Load tolerance of tibial plateau depressions reinforced with a cluster of K-wires. Beris AE, et al. **Bull Hosp Jt Dis** 1996;55(1):12–5

A new technique of reinforced sternal closure. Watanabe G, et al. **Cardiovasc Surg** 1996 Oct;4(5):639–40

Trochanteric osteotomy and wire fixation: a comparison of 2 techniques. Nercessian OA, et al. **Clin Orthop** 1996 Dec; (333):208–16

Biomechanical evaluation of tension band placement for the repair of olecranon fractures. Paremain GP, et al. **Clin Orthop** 1997 Feb;(335):325–30

Internal fixation of the proximal chevron osteotomy. Anderson RB, et al. **Foot Ankle Int** 1997 Jun;18(6):371–2

Comparison of bioabsorbable pins and Kirschner wires in the fixation of chevron osteotomies for hallux valgus. Winemaker MJ, et al. **Foot Ankle Int** 1996 Oct;17(10):623–8

Missed Monteggia fracture dislocation in children. Devnani AS. **Injury** 1997 Mar;28(2):131–3

The triple wire technique for bifacet dislocation of the cervical spine. Stathoulis B, et al. **Injury** 1997 Mar; 28(2):123–5

Subtalar dislocations. A study of 19 cases [letter; comment] Rodriguez-Merchan EC. **Int Orthop** 1997;21(2):142. Comment on: Int Orthop 1996;20(2):83–6.

Self locking tension band technique in transverse patellar fractures. Us AK, et al. **Int Orthop** 1996;20(6):357–8

Metacarpal fracture fixation with absorbable polyglycolide rods and stainless steel K wires: a biomechanical comparison. Maruyama T, et al. **J Biomed Mater Res** 1996 Spring;33(1):9–12

A modification for the insertion of the Herbert screw in the fractured or nonunited scaphoid. Heaps RJ, et al. **J Hand Surg [Am]** 1996 Sep;21(5):922–4

The risks of Kirschner wire placement in the distal radius: a comparison of techniques. Hochwald NL, et al. **J Hand Surg [Am]** 1997 Jul;22(4):580–4

Epiphyseal distraction [letter] Rao SB. **J Hand Surg [Am]** 1996 Jan;21(1):153–4

Distal interphalangeal joint arthrodesis comparing tension-band wire and Herbert screw: a biomechanical and dimensional analysis. Wyrsch B, et al. **J Hand Surg [Am]** 1996 May;21(3):438–43

Cardiac arrhythmia caused by a Kirschner wire inside the heart. An unusual complication of finger osteosynthesis. Haapaniemi TA, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):402–4

Biodegradable pins versus Kirschner wires in hand surgery. Jensen CH, et al. **J Hand Surg [Br]** 1996 Aug;21(4):507–10

Complete avulsion of the palmar cortex of the distal phalanx. Kevu JE, et al. **J Hand Surg [Br]** 1996 Dec;21(6):758–9

Biomechanical characteristics of C1-2 cable fixations. Dickman CA, et al. **J Neurosurg** 1996 Aug;85(2):316–22

Displaced radial neck fractures in children treated by closed intramedullary pinning (Metaizeau technique). González-Herranz P, et al. **J Pediatr Orthop** 1997 May-Jun;17(3):325–31

Biomechanical analysis of tension band fixation for olecranon fracture treatment. Kozin SH, et al. **J Shoulder Elbow Surg** 1996 Nov-Dec;5(6):442–8

Comparison of rigid plate versus wire fixation in the management of zygoma fractures: a long-term follow-up clinical study [letter; comment] Taher AA. **Plast Reconstr Surg** 1997 Feb;99(2):592. Comment on: Plast Reconstr Surg 1995 Sep;96(3):570–5.

Rigid plate versus wire fixation for zygoma fracture [letter; comment] Top H, et al. **Plast Reconstr Surg** 1996 Nov; 98(6):1117–8. Comment on: Plast Reconstr Surg 1995 Sep;96(3):570–5.

Percutaneous retrieval of intracardiopulmonary artery metallic needle (Kirschner's wire): a case report. Aikawa H, et al. **Radiat Med** 1996 Nov-Dec;14(6):335–8

Wire fixation techniques of the cervical facets. Cusick JF, et al. **Spine** 1997 May 1;22(9):970–5; discussion 976

Comparative mechanical properties of spinal cable and wire fixation systems. Dickman CA, et al. **Spine** 1997 Mar 15; 22(6):596–604

The biomechanical analysis of sublaminar wires and cables using luque segmental spinal instrumentation. Parsons JR, et al. **Spine** 1997 Feb 1;22(3):267–73

In vitro biomechanical comparison of multistrand cables with conventional cervical stabilization. Weis JC, et al. **Spine** 1996 Sep 15;21(18):2108–14

Management of unstable ankle fractures with Kirschner wires. Oosterhuis JW, et al. **Trop Doct** 1997 Oct;27(4):230–1

[A salvage technique for comminuted fractures of the patella]. Vasilevski D, et al. **Int Orthop** 1996;20(4):216–7 (Eng. Abstr.) **(Fre)**

[Biomechanics of combined Kirschner wire osteosynthesis in the human model of unstable dorsal, distal radius fractures (Colles type)] Fritz T, et al. **Chirurg** 1997 May; 68(5):496–502 (Eng. Abstr.) **(Ger)**

[Possibilities and limits of intramedullary Kirschner wire osteosynthesis in treatment of metacarpal fractures] Larkin G, et al. **Handchir Mikrochir Plast Chir** 1997 Jul; 29(4):192–6 (Eng. Abstr.) **(Ger)**

[Intramedullary osteosynthesis of distal metacarpal fractures with curved wires] Schlageter M, et al. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):197–203 (Eng. Abstr.) **(Ger)**

[External fixator or bone pin osteosyntheses in unstable distal intra-articular radius fractures in elderly patients] Neumann K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:912–3 (Eng. Abstr.) **(Ger)**

[Results of modern osteosynthesis procedures in fractures of the radial head--are conservative therapy, bone pin osteosynthesis or primary resection still allowed?] Reimer H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:934–7 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Osteonecrosis caused by percutaneous cerclage wiring of a tibial fracture: case report. van Steijn MJ, et al. **J Trauma** 1997 Sep;43(3):521–2

Prevalence of segmental wire breakage using Cotrel-Dubousset instrumentation in the management of idiopathic scoliosis. Ward M, et al. **Spine** 1997 Feb 15; 22(4):406–7

STANDARDS

Comparing Mersilene tape and stainless steel wire as sublaminar spinal fixation in the Chagma baboon (Papio ursinus). Grobler LJ, et al. **Iowa Orthop J** 1997;17:20–31

VETERINARY

Mechanical characteristics and comparisons of cerclage wires: introduction of the double-wrap and loop/twist tying methods. Roe SC. **Vet Surg** 1997 Jul-Aug;26(4):310–6

BONNET MONKEY see **MACACA RADIATA**

BONNEVIE-ULLRICH SYNDROME see **SEX CHROMOSOME ABNORMALITIES**

BOOK COLLECTING

[How does one obtain, use, care for and sell old medical books? Experiences of a dermatologist] Ehring F. **Hautarzt** 1996 Dec;47(12):941–3 **(Ger)**

BOOK ILLUSTRATION see **BOOKS, ILLUSTRATED**

BOOK INDUSTRY

see related
PUBLISHING

BOOK REVIEWS

Biased book review [letter] Schwartz HJ. **Am J Psychiatry** 1997 Jun;154(6):888

Book review of Physical Signs of Child Abuse [letter] Court S, et al. **Arch Dis Child** 1997 Feb;76(2):174

Frederic Wood Jones: his major books and how they were reviewed. Christophers BE. **Aust N Z J Surg** 1997 Sep; 67(9):645–59

BOOK SELECTION

Selected list of books and journals for the small medical library. Brandon AN, et al. **Bull Med Libr Assoc** 1997 Apr; 85(2):111–35

A basic list of recommended books and journals for support of clinical dentistry in a nondental library. Johnson RC, et al. **Bull Med Libr Assoc** 1997 Jul;85(3):233–8

Academic health sciences librarians' use of the Brandon-Hill selected list in book selection activities: results of a preliminary descriptive study. Murphy SC. **Bull Med Libr Assoc** 1996 Jul;84(3):427–32

BOOKLETS see **PAMPHLETS**

BOOKS

see related
BIBLIOTHERAPY

Books of the year. **Am J Nurs** 1997 Jan;97(1):71–2

The American Hospital Formulary Service information books beat the PDR [letter] Hooper PL. **Arch Intern Med** 1997 Mar 10;157(5):575–6

Personal technology: where does a computer user turn for help? Nicoll LH. **Comput Nurs** 1996 Mar-Apr;14(2):126–7

Influence of carrying book bags on gait cycle and posture of youths. Pascoe DD, et al. **Ergonomics** 1997 Jun; 40(6):631–41

Radioactivity in books printed in Japan: its source and relation to the year of issue. Kobashi A. **J Radiat Res (Tokyo)** 1996 Jun;37(2):81–95

Lessons learned from producing health information booklets for deploying U.S. military personnel. Huycke KA, et al. **Mil Med** 1997 Mar;162(3):209–14

"With a little help from my friends I get by": self-help books and psychotherapy. Essay review. Apfel RJ. **Psychiatry** 1996 Winter;59(4):309–22

CLASSIFICATION see BOOK CLASSIFICATION

HISTORY

Frederic Wood Jones: his major books and how they were reviewed. Christophers BE. **Aust N Z J Surg** 1997 Sep; 67(9):645–59

Oparin's "Origin of Life": sixty years later. Miller SL, et al. **J Mol Evol** 1997 Apr;44(4):351–3

[Medical books in New Spain] Viesca-Treviño C. **Gac Med Mex** 1996 May-Jun;132(3):327–32 **(Spa)**

BOOKS, ILLUSTRATED

Comic books and development [letter] Potenza M, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1573–4

BOOP see **BRONCHIOLITIS OBLITERANS ORGANIZING PNEUMONIA**

BOR SYNDROME see **BRANCHIO-OTO-RENAL SYNDROME**

BORANES

CHEMISTRY

Boron trifluoride-etherate (Lewis acid) as an efficient acid at cyclization/cleavage reaction of D/L-amino acids affording the retention of their original configuration in the Edman sequencing method of peptides. Matsunaga H, et al. **Biomed Chromatogr** 1996 Mar-Apr;10(2):95–6

Reductive cleavage of permethylated polysaccharides with

borane-methyl sulfide complex and butyltin trichloride. Wang N, et al. **Carbohydr Res** 1997 Mar 5;298(3):131-7
Electron spectroscopic imaging of antigens by reaction with boronated antibodies. Qualmann B, et al. **J Microsc** 1996 Jul;183 (Pt 1):69-77

PHARMACOKINETICS

Liposomes as drug delivery vehicles for boron agents. Hawthorne MF, et al. **J Neurooncol** 1997 May;33(1-2):53-8
In vitro determination of toxicity, binding, retention, subcellular distribution and biological efficacy of the boron neutron capture agent DAC-1. Tilly N, et al. **Radiother Oncol** 1996 Jan;38(1):41-50

BORATES

ADVERSE EFFECTS

Euglena gracilis as a supplementary test organism for detecting biologically active compounds. Mačor M, et al. **Folia Microbiol (Praha)** 1996;41(1):48-52
Human disodium octaborate tetrahydrate exposure following carpet flea treatment is not associated with significant dermal absorption. Krieger RI, et al. **J Expo Anal Environ Epidemiol** 1996 Jul-Sep;6(3):279-88
[Mobitz I after accidental ingestion of eyedrops (letter)] Martínez-Albaladejo M, et al. **An Med Interna** 1996 Jul; 13(7):359-60 **(Spa)**

ANALYSIS

A human health risk assessment of boron (boric acid and borax) in drinking water. Murray FJ. **Regul Toxicol Pharmacol** 1995 Dec;22(3):221-30

CHEMISTRY

Direct analysis of sugar alcohol borate complexes in plant extracts by matrix-assisted laser desorption/ionization fourier transform mass spectrometry. Penn SG, et al. **Anal Chem** 1997 Jul 1;69(13):2471-7
Rhamnogalacturonan-II, a pectic polysaccharide in the walls of growing plant cell, forms a dimer that is covalently cross-linked by a borate ester. In vitro conditions for the formation and hydrolysis of the dimer. O'Neill MA, et al. **J Biol Chem** 1996 Sep 13;271(37):22923-30
11B[27Al] and 27Al[11B] double resonance experiments on a glassy sodium aluminoborate. van Wüllen L, et al. **Solid State Nucl Magn Reson** 1996 Jun;6(3):203-12

PHARMACOLOGY

Inhibition of mitochondrial cytochrome C oxidase by dicarbanonaborates. Drahota Z, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1267-73
Dicarbanonaborates in yeast respiration and membrane transport. Kotyk A, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):933-40

TOXICITY

A human health risk assessment of boron (boric acid and borax) in drinking water. Murray FJ. **Regul Toxicol Pharmacol** 1995 Dec;22(3):221-30
An assessment of boric acid and borax using the IEHR Evaluative Process for Assessing Human Developmental and Reproductive Toxicity of Agents. Expert Scientific Committee. Moore JA. **Reprod Toxicol** 1997 Jan-Feb; 11(1):123-60 (137 ref.)

BORDER DISEASE

COMPLICATIONS

Diaplacental infections with ruminant pestiviruses. Osburn BI, et al. **Arch Virol Suppl** 1991;3:71-8 (27 ref.)

DIAGNOSIS

Border disease of sheep--aspects for diagnostic and epidemiologic consideration. Sawyer MM, et al. **Arch Virol Suppl** 1991;3:97-100 (10 ref.)

ETIOLOGY

Comparative studies of border disease and closely related virus infections in experimental pigs and sheep. Edwards S, et al. **Br Vet J** 1995 Mar-Apr;151(2):181-7

PHYSIOPATHOLOGY

Progeny of sheep persistently infected with border disease virus. Woldehiwet Z, et al. **Arch Virol Suppl** 1991;3:267-71

BORDER DISEASE VIRUS

Comparative studies of border disease and closely related virus infections in experimental pigs and sheep. Edwards S, et al. **Br Vet J** 1995 Mar-Apr;151(2):181-7

CHEMISTRY

Comparison of the complete genomic sequence of the border disease virus, BD31, to other pestiviruses. Ridpath JF, et al. **Virus Res** 1997 Aug;50(2):237-43

GENETICS

Phylogenetic analysis of pestivirus based on the 5'-untranslated region. Harasawa R. **Acta Virol** 1996 Feb; 40(1):49-54
Secondary structure of the 5'-noncoding region of border disease virus genome RNAs. Vilček S. **Vet Med (Praha)** 1997 May;42(5):125-8
Comparison of the complete genomic sequence of the border disease virus, BD31, to other pestiviruses. Ridpath JF, et al. **Virus Res** 1997 Aug;50(2):237-43

ISOLATION & PURIFICATION

Detection of border disease virus in sheep efferent lymphocytes by immunocytochemical and in situ hybridisation techniques. Entrican G, et al. **Arch Virol Suppl** 1991;3:175-80

BORDERLINE PERSONALITY DISORDER

Antisocial and borderline personality disorders: two separate diagnoses or two aspects of the same psychopathology? Paris J. **Compr Psychiatry** 1997 Jul-Aug;38(4):237-42 (64 ref.)
Era-related changes in the Japanese cultural and social structure and conformist personality pathology--with a particular emphasis on borderline personality disorder. Tamai K. **Fukuoka Igaku Zasshi** 1997 Apr;88(4):84-9 (2 ref.)
Paranoia and omnipotent symbiosis in borderline adolescents. McCarthy JB. **J Am Acad Psychoanal** 1996 Spring; 24(1):45-59
Borderline personality disorder and health care utilization in a primary care setting. Sansone RA, et al. **South Med J** 1996 Dec;89(12):1162-5

BLOOD

Borderline personality, impulsiveness, and platelet monoamine measures in bulimia nervosa and recurrent suicidal behavior. Verkes RJ, et al. **Biol Psychiatry** 1996 Aug 1;40(3):173-80

COMPLICATIONS

Affect instability in adults with a borderline personality disorder. Stein KF. **Arch Psychiatr Nurs** 1996 Feb; 10(1):32-40
Affective instability and impulsivity in personality disorder. Results of an experimental study. Herpertz S, et al. **J Affect Disord** 1997 Jun;44(1):31-7
Relationship of borderline symptoms to histories of abuse and neglect: a pilot study. Oldham JM, et al. **Psychiatr Q** 1996 Winter;67(4):287-95
Obsessive-compulsive disorder comorbid with borderline personality disorder: a long-term case study. Hayashi N. **Psychiatry Clin Neurosci** 1996 Apr;50(2):51-4
Borderline disorder in Turkey: a 2- to 4-year follow-up. Senol S, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 Feb;32(2):109-12

DIAGNOSIS

Transitional objects and borderline personality disorder. Cardasis W, et al. **Am J Psychiatry** 1997 Feb;154(2):250-5
Borderline personality and bipolar disorder [letter; comment] Feiner NF. **Am J Psychiatry** 1997 Aug;154(8):1175-6; discussion 1176-7. Comment on: Am J Psychiatry 1996 Sep;153(9):1202-7.
Clinical study of the relation of borderline personality disorder to Briquet's syndrome (hysteria), somatization disorder, antisocial personality disorder, and substance abuse disorders [published erratum appears in Am J Psychiatry 1997 Jan;154(1):139] Hudziak JJ, et al. **Am J Psychiatry** 1996 Dec;153(12):1598-606
Borderline personality disorder and transitional objects [letter] Laporta LD. **Am J Psychiatry** 1997 Oct; 154(10):1484-5
Borderline personality and bipolar disorder [letter; comment] Prakash R, et al. **Am J Psychiatry** 1997 Aug;154(8):1176; discussion 1176-7. Comment on: Am J Psychiatry 1996 Sep;153(9):1202-7.
Borderline mnemonic [letter] Senger HL. **Am J Psychiatry** 1997 Sep;154(9):1321
TRH stimulation and dexamethasone suppression in borderline personality disorder. De la Fuente JM, et al. **Biol Psychiatry** 1996 Sep 1;40(5):412-8
Content validity of the DSM-IV borderline and narcissistic personality disorder criteria sets. Blais MA, et al. **Compr Psychiatry** 1997 Jan-Feb;38(1):31-7
Borderline personality disorder: study in adolescence. James A, et al. **Eur Child Adolesc Psychiatry** 1996 Apr;5(1):11-7
Sociodemography of borderline personality disorder (PD): a comparison with Axis II PDs and psychiatric symptom disorders convergent validation. Taub JM. **Int J Neurosci** 1996 Nov;88(1-2):27-52
Borderline personality disorder features in nonclinical young adults: 2. Two-year outcome. Trull TJ, et al. **J Abnorm Psychol** 1997 May;106(2):307-14
Borderline personality disorder in adolescents: affective and cognitive features. Pinto A, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Oct; 35(10):1338-43
Rorschach revised DEPI and CDI with inpatient Major Depressives and Borderline Personality Disorder with major depression: validity issues. Carlson CF, et al. **J Clin Psychol** 1997 Jan;53(1):51-8
Measuring the effect of the Rorschach color cards (VIII-X) on perceptual accuracy and special scores in differentiating borderline from schizophrenic protocols. Peters JE, et al. **J Clin Psychol** 1996 Sep;52(5):581-8
Discriminating borderline from antisocial personality disorder in male patients based on psychopathology patterns and type of hostility. Hatzitaskos PK, et al. **J Nerv Ment Dis** 1997 Jul;185(7):442-6
Color preferences of borderline patients and of normal controls. Cernovsky ZZ, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1347-53
The dialectical approach to understanding and treating borderline personality disorder. Alger I. **Psychiatr Serv** 1996 Sep;47(9):927-8
Dementia and 'borderline dementia' in Britain: 8-year incidence and post-screening outcomes. Clarke D, et al. **Psychol Med** 1996 Jul;26(4):829-35
Depression and dissociation as features of borderline personality disorder in hospitalized adolescents. Atlas JA, et al. **Psychol Rep** 1996 Apr;78(2):624-6
Adolescence and diagnostics. Zdanowicz N, et al. **Psychol Rep** 1996 Apr;78(2):459-66 (39 ref.)
Borderline conditions in childhood. A register-based follow-up study over a 22-year period. Thomsen PH. **Psychopathology** 1996 Nov-Dec;29(6):357-62
Borderline disorder in Turkey: a 2- to 4-year follow-up. Senol S, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 Feb;32(2):109-12
[Borderline or bipolar disorder after all?] Knoppert-van der Klein EA, et al. **Ned Tijdschr Geneeskd** 1997 Mar 1; 141(9):409-12 (Eng. Abstr.) **(Dut)**
[Borderline disorders, schizotypal and narcissistic personality disorders in adolescents: a useful distinction] Meijer M. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2485-7 **(Dut)**
[New approaches for understanding borderline personality disorder] Frommer J, et al. **Fortschr Neurol Psychiatr** 1997 Jan;65(1):34-40 (70 ref.) (Eng. Abstr.) **(Ger)**
[Comments on the contribution by T. Steinert and P.-O. Schmidt-Michel. Borderline disorder and schizophrenia (letter; comment)] Klärner JP. **Nervenarzt** 1996 May; 67(5):429-30. Comment on: Nervenarzt 1995 Nov;66(11):858-63. **(Ger)**
[Borderline disorder and schizophrenia (letter; comment)] Klärner JP. **Nervenarzt** 1997 Mar;68(3):280-1. Comment on: Nervenarzt 1995 Nov;66(11):858-63. **(Ger)**
[Borderline mental disorders in diabetes mellitus] Korkina MV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997; 97(2):15-8 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Cessation of self-mutilation in a patient with borderline personality disorder treated with naltrexone [letter] McGee MD. **J Clin Psychiatry** 1997 Jan;58(1):32-3
Risperidone in comorbid borderline personality disorder and dysthymia [letter] Szigethy EM, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):326-7
Remission of self-mutilation in a patient with borderline personality during risperidone therapy. Khouzam HR, et al. **J Nerv Ment Dis** 1997 May;185(5):348-9
Considerable improvement in a case of obsessive-compulsive disorder in an emotionally unstable personality disorder, borderline type under treatment with clozapine. Steinert T, et al. **Pharmacopsychiatry** 1996 May;29(3):111-4
Venlafaxine in the treatment of borderline personality disorder. Markovitz PJ, et al. **Psychopharmacol Bull** 1995; 31(4):773-7

EPIDEMIOLOGY

Dissociation in patients with borderline personality disorder [letter; comment] Paris J, et al. **Am J Psychiatry** 1997 Jan; 154(1):137-8. Comment on: Am J Psychiatry 1995 Dec;152(12):1788-92.
History of childhood sexual abuse and general psychopathology. Figueroa EF, et al. **Compr Psychiatry** 1997 Jan-Feb;38(1):23-30
Factors associated with multiple hospitalizations of patients with borderline personality disorder. Hull JW, et al. **Psychiatr Serv** 1996 Jun;47(6):638-41
Dementia and 'borderline dementia' in Britain: 8-year incidence and post-screening outcomes. Clarke D, et al. **Psychol Med** 1996 Jul;26(4):829-35

ETHNOLOGY

Cultural factors in the emergence of borderline pathology [see comments] Paris J. **Psychiatry** 1996 Summer; 59(2):185-92. Comment in: Psychiatry 1996 Summer;59(2):193-5.

ETIOLOGY

Reported pathological childhood experiences associated with the development of borderline personality disorder. Zanarini MC, et al. **Am J Psychiatry** 1997 Aug; 154(8):1101-6
The structure and development of borderline personality disorder: a proposed model. Ryle A. **Br J Psychiatry** 1997

Jan;170:82-7
Biological implications of childhood sexual abuse in borderline personality disorder. Figueroa E, et al. **J Personal Disord** 1997 Spring;11(1):71-92
Etiological significance of associations between childhood trauma and borderline personality disorder: conceptual and clinical implications. Sabo AN. **J Personal Disord** 1997 Spring;11(1):50-70
Pathways to the development of borderline personality disorder. Zanarini MC, et al. **J Personal Disord** 1997 Spring;11(1):93-104
Lay beliefs about the causes of mental disorders: a new methodological approach. Matschinger H, et al. **Soc Psychiatry Psychiatr Epidemiol** 1996 Nov;31(6):309-15 (37 ref.)

GENETICS

Psychopathology in offspring of mothers with borderline personality disorder: a pilot study. Weiss M, et al. **Can J Psychiatry** 1996 Jun;41(5):285-90

METABOLISM

The dexamethasone suppression test and glucocorticoid receptors in borderline personality disorder. Grossman R, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:459-64

NURSING

Increasing staff knowledge of and improving attitudes toward patients with borderline personality disorder. Miller SA, et al. **Psychiatr Serv** 1996 May;47(5):533-5

PSYCHOLOGY

m-Chlorophenylpiperazine challenge in borderline personality disorder: relationship of neuroendocrine response, behavioral response, and clinical measures. Stein DJ, et al. **Biol Psychiatry** 1996 Sep 15;40(6):508-13
Impairment of self-representation in schizophrenia: the roles of boundary articulation and self-reflexivity. Auerbach JS, et al. **Bull Menninger Clin** 1997 Summer;61(3):297-316
Self-inflicted injuries. Challenging knowledge, skill, and compassion. Haswell DE, et al. **Can Fam Physician** 1996 Sep;42:1756-8, 1761-4 (11 ref.)
Childhood antecedents of self-destructiveness in borderline personality disorder. Dubo ED, et al. **Can J Psychiatry** 1997 Feb;42(1):63-9
Re: Impulsivity, defensive functioning, and borderline personality disorder [letter; comment] Jerome L. **Can J Psychiatry** 1996 Sep;41(7):483. Comment on: Can J Psychiatry 1996 Mar;41(2):81-4.
Sociodemography of borderline personality disorder (PD): a comparison with Axis II PDs and psychiatric symptom disorders convergent validation. Taub JM. **Int J Neurosci** 1996 Nov;88(1-2):27-52
Origins of BPD: Cronus eating his children--a case report. Barlow SH. **J Am Acad Psychoanal** 1996 Fall;24(3):499-513
Interpersonal perceptions of depressed and borderline inpatients. Stern MI, et al. **J Clin Psychol** 1997 Jan; 53(1):41-9
Emotion processing in borderline personality disorders. Levine D, et al. **J Nerv Ment Dis** 1997 Apr;185(4):240-6
Primitive defenses, object relations, and symptom clusters in borderline psychopathology. Greene LR. **J Pers Assess** 1996 Oct;67(2):294-304
Self-injurious behavior and mood regulation in borderline patients. Kemperman I, et al. **J Personal Disord** 1997 Summer;11(2):146-57
Techniques for reducing therapy-interfering behavior in patients with borderline personality disorder. Similarities in four diverse treatment paradigms. Allen DM. **J Psychother Pract Res** 1997 Winter;6(1):25-35
Borderline personality disorder in cultural context: commentary on Paris [comment] Miller SG. **Psychiatry** 1996 Summer;59(2):193-5. Comment on: Psychiatry 1996 Summer;59(2):185-92 .
Pain assessment in self-injurious patients with borderline personality disorder using signal detection theory. Kemperman I, et al. **Psychiatry Res** 1997 May 30; 70(3):175-83
Pain and self-injury in borderline patients: sensory decision theory, coping strategies, and locus of control. Russ MJ, et al. **Psychiatry Res** 1996 Jun 26;63(1):57-65
Bedside stuffed animals and borderline personality. Labbate LA, et al. **Psychol Rep** 1996 Oct;79(2):624-6
Theresa O'Hanley, persona non grata. Maltsberger JT. **Suicide Life Threat Behav** 1996 Summer;26(2):187-8; discussion 188-94
[Patients with a borderline disorder in the health care system] van Meekeren E, et al. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2437-9 **(Dut)**
[Arson as a symptom of borderline personality disorder] Garlipp P, et al. **Psychiatr Prax** 1996 Nov;23(6):303-4 **(Ger)**
[Chronic dissociative hemiparesis in borderline personality disorder] Rothermundt M, et al. **Psychiatr Prax** 1996 Sep; 23(5):250-1 **(Ger)**

THERAPY

Abandonment and intrusion fears in borderline personality disorder [letter; comment] Chabrol H. **Am J Psychiatry** 1997 Sep;154(9):1329. Comment on: Am J Psychiatry 1996 Jun;153(6):752-8.
Treatment for severe borderline personality disorder in 1987 and 1997 [clinical conference] Quaytman M, et al. **Am J Psychiatry** 1997 Aug;154(8):1139-44
Dynamically oriented psychotherapy with borderline patients. Goldstein WN. **Am J Psychother** 1997 Winter; 51(1):14-30
Dialectical behavior therapy in the treatment of persons with borderline personality disorder. Hampton MC. **Arch Psychiatr Nurs** 1997 Apr;11(2):96-101 (29 ref.)
Long-term psychotherapy in borderline and narcissistic disorders: when is it necessary? Beatson JA. **Aust N Z J Psychiatry** 1995 Dec;29(4):591-7 (37 ref.)
Cognitive therapy for antisocial and borderline personality disorders: single case study series. Davidson KM, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):413-29
Why traumatized borderline patients relapse. Appelbaum AH. **Bull Menninger Clin** 1996 Fall;60(4):449-63
The fear of being left half-cured. Schlesinger HJ. **Bull Menninger Clin** 1996 Fall;60(4):428-48
Autistic barriers in the psychoanalysis of borderline adults. Cohen D, et al. **Int J Psychoanal** 1996 Oct;77 (Pt 5):913-33
Psychoanalytic treatment of the borderline patient. Chessick RD. **J Am Acad Psychoanal** 1997 Spring;25(1):91-109
The mental organization of primitive personalities and its treatment implications. Robbins M. **J Am Psychoanal Assoc** 1996;44(3):755-84
Techniques for reducing therapy-interfering behavior in patients with borderline personality disorder. Similarities in four diverse treatment paradigms. Allen DM. **J Psychother Pract Res** 1997 Winter;6(1):25-35
The dialectical approach to understanding and treating borderline personality disorder. Alger I. **Psychiatr Serv** 1996 Sep;47(9):927-8
Multimodal cognitive-behavior therapy for borderline personality disorder with self-injurious behavior. Kern RS, et al. **Psychiatr Serv** 1997 Sep;48(9):1131-3
The wish to be held: female patients with borderline personality disorder. Hayashi N. **Psychiatry Clin Neurosci** 1996 Oct;50(5):267-70
[Cognitive therapy and psychoanalytical therapy of limited personalities: a critical consideration] Chabrol H, et al. **Ann Med Psychol (Paris)** 1996 Jun;154(4):238-44 (Eng. Abstr.) **(Fre)**
[M. Linehan dialectic behavioral psychotherapy. A new concept in the treatment of borderline personality disorders] Bohus M, et al. **Nervenarzt** 1996 Nov; 67(11):911-23 (33 ref.) (Eng. Abstr.) **(Ger)**
[Differentiation and therapy of delinquent behavior in borderline disorders. Psychodynamic approach] Dulz B. **Nervenarzt** 1997 May;68(5):395-400 (31 ref.) (Eng. Abstr.) **(Ger)**

BORDETELLA

CHEMISTRY

Inhibitory effect of acyl-CoA and acyl-carnitine compounds on the ischemia-inducing activity of Bordetella heat-labile toxin in guinea pig skin. Nagai M, et al. **Biol Pharm Bull** 1997 Feb;20(2):193-5
The identification, cloning and mutagenesis of a genetic locus required for lipopolysaccharide biosynthesis in Bordetella pertussis. Allen A, et al. **Mol Microbiol** 1996 Jan; 19(1):37-52

CLASSIFICATION

Bordetella trematum sp. nov., isolated from wounds and ear infections in humans, and reassessment of Alcaligenes denitrificans Rüger and Tan 1983. Vandamme P, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):849-58
A causal relationship between Bordetella pertussis and Bordetella parapertussis infections. Kawai H, et al. **Scand J Infect Dis** 1996;28(4):377-81
[A new Bordetella species in sheep?] Mitsching M, et al. **Zentralbl Veterinarmed [B]** 1997 Jun;44(4):207-11 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

In vitro susceptibilities of Bordetella pertussis and Bordetella parapertussis to four fluoroquinolones (levofloxacin, d-ofloxacin, ofloxacin, and ciprofloxacin), cefpirome, and meropenem. Hoppe JE, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):807-8
Comparison of Etest and agar dilution for testing the activity of three macrolides against Bordetella parapertussis. Hoppe JE, et al. **Diagn Microbiol Infect Dis** 1997 May;28(1):49-51

GENETICS

Genetic regulation of airway colonization by Bordetella species. Yuk MH, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S150-4 (33 ref.)
Analysis of proteins encoded by the ptx and ptl genes of Bordetella bronchiseptica and Bordetella parapertussis. Hausman SZ, et al. **Infect Immun** 1996 Oct;64(10):4020-6
Genomic fluidity of Bordetella pertussis assessed by a new method for chromosomal mapping. Stibitz S, et al. **J Bacteriol** 1997 Sep;179(18):5820-6
An iron-regulated outer-membrane protein specific to Bordetella bronchiseptica and homologous to ferric siderophore receptors. Beall B, et al. **Microbiology** 1997 Jan;143 (Pt 1):135-45

ISOLATION & PURIFICATION

Bordetella parapertussis infections. Mastrantonio P, et al. **Dev Biol Stand** 1997;89:255-9
Polymerase chain reaction for the identification of Bordetella pertussis and Bordetella parapertussis. Stefanelli P, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):197-200
Moredun Bordetella Medium, an improved selective medium for isolation of Bordetella parapertussis. Connor KM, et al. **J Clin Microbiol** 1996 Mar;34(3):638-40
Extended incubation of culture plates improves recovery of Bordetella spp. Katzko G, et al. **J Clin Microbiol** 1996 Jun; 34(6):1563-4
Effect of Bordetella bronchiseptica and serotype D Pasteurella multocida bacterin-toxoid on the occurrence of atrophic rhinitis after experimental infection with B. bronchiseptica and toxigenic type AP. multocida. Sakano T, et al. **J Vet Med Sci** 1997 Jan;59(1):55-7
[A new Bordetella species in sheep?] Mitsching M, et al. **Zentralbl Veterinarmed [B]** 1997 Jun;44(4):207-11 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

The production of colibacillosis in turkeys following sequential exposure to Newcastle disease virus or Bordetella avium, avirulent hemorrhagic enteritis virus, and Escherichia coli. Pierson FW, et al. **Avian Dis** 1996 Oct-Dec;40(4):837-40
Effects of interactions between Pasteurella haemolytica and Bordetella parapertussis on in vitro phagocytosis by lung macrophages. Hodgson JC, et al. **Biologicals** 1996 Dec; 24(4):325-8
Role of Bordetella bronchiseptica sialic acid-binding hemagglutinin as a putative colonization factor. Ishikawa H, et al. **J Vet Med Sci** 1997 Jan;59(1):43-4

BORDETELLA BRONCHISEPTICA

CHEMISTRY

Structural characterization of the lipids A of three Bordetella bronchiseptica strains: variability of fatty acid substitution. Zarrouk H, et al. **J Bacteriol** 1997 Jun;179(11):3756-60
Flagellin, a major protein present in SDS-PAGE profiles of Sarkosyl-OMP-enriched fractions from Bordetella bronchiseptica Bvg- or modulated Bvg+ strains. Passerini de Rossi BN, et al. **Vet Microbiol** 1997 May;56(1-2):65-77

CLASSIFICATION

Use of ribotyping to distinguish Bordetella bronchiseptica isolates. Register KB, et al. **Int J Syst Bacteriol** 1997 Jul; 47(3):678-83
Antigenic polymorphism of the lipopolysaccharides from human and animal isolates of Bordetella bronchiseptica. Le Blay K, et al. **Microbiology** 1997 Apr;143 (Pt 4):1433-41

DRUG EFFECTS

Antimicrobial susceptibility of Bordetella bronchiseptica isolates from cats and a comparison of the agar dilution and E-test methods. Speakman AJ, et al. **Vet Microbiol** 1997 Jan;54(1):63-72
Antimicrobial susceptibility of B bronchiseptica [letter] Speakman AJ. **Vet Rec** 1997 Apr 5;140(14):380

ENZYMOLOGY

Temperature dependent expression of an acid phosphatase by Bordetella bronchiseptica: role in intracellular survival. Chhatwal GS, et al. **Microb Pathog** 1997 May;22(5):257-64
Molecular analysis of the bvg-repressed urease of Bordetella bronchiseptica. McMillan DJ, et al. **Microb Pathog** 1996 Nov;21(5):379-94

GENETICS

Genetic analysis of the Bordetella-host interaction. Cotter PA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:65-76
Stable expression of pertussis toxin in Bordetella bronchiseptica under the control of a tightly regulated promoter. Suarez A, et al. **Appl Environ Microbiol** 1997 Jan;63(1):122-7
Non-motile mini-transposon mutants of Bordetella bronchiseptica exhibit altered abilities to invade and survive in eukaryotic cells. West NP, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):263-9
Analysis of the alcABC operon encoding alcaligin biosynthesis enzymes in Bordetella bronchiseptica. Giardina PC, et al. **Gene** 1997 Jul 18;194(1):19-24
Analysis of proteins encoded by the ptx and ptl genes of Bordetella bronchiseptica and Bordetella parapertussis. Hausman SZ, et al. **Infect Immun** 1996 Oct;64(10):4020-6
Cloning, expression, and molecular characterization of the dermonecrotic toxin gene of Bordetella spp. Pullinger GD, et al. **Infect Immun** 1996 Oct;64(10):4163-71
Characterization of the fim2 and fim3 fimbrial subunit genes of Bordetella bronchiseptica: roles of Fim2 and Fim3 fimbriae and flagella in adhesion. Savelkoul PH, et al. **Infect Immun** 1996 Dec;64(12):5098-105
Use of ribotyping to distinguish Bordetella bronchiseptica isolates. Register KB, et al. **Int J Syst Bacteriol** 1997 Jul; 47(3):678-83

Cloning and characterization of an Mn-containing superoxide dismutase (SodA) of Bordetella pertussis.
Graeff-Wohlleben H, et al. **J Bacteriol** 1997 Apr; 179(7):2194-201

Molecular characterization of two Bordetella bronchiseptica strains isolated from children with coughs. Stefanelli P, et al. **J Clin Microbiol** 1997 Jun;35(6):1550-5

Transfer of a pertussis toxin expression locus to isogenic bvg-positive and bvg-negative strains of Bordetella bronchiseptica using an in vivo technique. Smith AM, et al. **Microb Pathog** 1996 May;20(5):263-73

An iron-regulated outer-membrane protein specific to Bordetella bronchiseptica and homologous to ferric siderophore receptors. Beall B, et al. **Microbiology** 1997 Jan;143 (Pt 1):135-45

A mutation in the Bordetella bronchiseptica bvgS gene results in reduced virulence and increased resistance to starvation, and identifies a new class of Bvg-regulated antigens. Cotter PA, et al. **Mol Microbiol** 1997 May;24(4):671-85

GROWTH & DEVELOPMENT

Crystal violet staining of Bordetella bronchiseptica colonies for differentiation of phase-I strains from variant strains in degraded phases. Ishikawa H, et al. **Can J Vet Res** 1997 Jul;61(3):232-4

IMMUNOLOGY

Phase variation affects long-term survival of Bordetella bronchiseptica in professional phagocytes. Banemann A, et al. **Infect Immun** 1997 Aug;65(8):3469-73

Hepatocellular necrosis associated with the subcutaneous injection of an intranasal Bordetella bronchiseptica-canine parainfluenza vaccine. Toshach K, et al.
J Am Anim Hosp Assoc 1997 Mar-Apr;33(2):126-8

Intrac vaccine: batch recall [letter] Smitherman P.
Vet Rec 1997 Jul 26;141(4):108

ISOLATION & PURIFICATION

Molecular characterization of two Bordetella bronchiseptica strains isolated from children with coughs. Stefanelli P, et al. **J Clin Microbiol** 1997 Jun;35(6):1550-5

Bordetella bronchoseptica pneumonia with shock in an immunocompetent patient. Tamion F, et al.
Scand J Infect Dis 1996;28(2):197-8

Oligonucleotide probes for Bordetella bronchiseptica based on 16S ribosomal RNA sequences. Taneda A, et al.
Vet Microbiol 1994 Dec;42(4):297-305

[Infection by Bordetella bronchiseptica in patients with AIDS (letter; comment)] Goenaga MA, et al.
Enferm Infecc Microbiol Clin 1997 Jan;15(1):48-9. Comment on: Enferm Infecc Microbiol Clin 1996 Aug-Sep;14(7):458-9. **(Spa)**

[Bordetella bronchiseptica in a patient with prostatic adenocarcinoma (letter) (see comments)] Peraire J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):458-9. Comment in: Enferm Infecc Microbiol Clin 1997 Jan;15(1):48-9. **(Spa)**

PATHOGENICITY

Genetic analysis of the Bordetella-host interaction. Cotter PA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:65-76

A porcine model for the evaluation of virulence of Bordetella bronchiseptica. Ackermann MR, et al. **J Comp Pathol** 1997 Jan;116(1):55-61

A mutation in the Bordetella bronchiseptica bvgS gene results in reduced virulence and increased resistance to starvation, and identifies a new class of Bvg-regulated antigens. Cotter PA, et al. **Mol Microbiol** 1997 May;24(4):671-85

Comparative analysis of the virulence control systems of Bordetella pertussis and Bordetella bronchiseptica. Martínez de Tejada G, et al. **Mol Microbiol** 1996 Dec; 22(5):895-908

PHYSIOLOGY

Purification, spectroscopic analysis and biological activity of the macrocyclic dihydroxamate siderophore alcaligin produced by Bordetella pertussis and Bordetella bronchiseptica. Brickman TJ, et al. **Biometals** 1996 Apr; 9(2):191-203

Serum haptoglobin concentration in growing swine after intranasal challenge with Bordetella bronchiseptica and toxigenic Pasteurella multocida type D. Francisco CJ, et al. **Can J Vet Res** 1996 Jul;60(3):222-7

Experimental pneumonia virus of mice infection of guineapigs spontaneously infected with Bordetella bronchiseptica. Griffith JW, et al. **Lab Anim** 1997 Jan;31(1):52-7

ULTRASTRUCTURE

Crystal containing membrane bound intracellular inclusion bodies in the epithelium of experimentally infected sinus mucosa. Westrin KM. **Ultrastruct Pathol** 1996 Nov-Dec; 20(6):563-9

BORDETELLA INFECTIONS

DIAGNOSIS

Polymerase chain reaction for the identification of Bordetella pertussis and Bordetella parapertussis. Stefanelli P, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):197-200

ETIOLOGY

Bordetella bronchoseptica pneumonia with shock in an immunocompetent patient. Tamion F, et al.
Scand J Infect Dis 1996;28(2):197-8

[Bordetella bronchiseptica in a patient with prostatic adenocarcinoma (letter) (see comments)] Peraire J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):458-9. Comment in: Enferm Infecc Microbiol Clin 1997 Jan;15(1):48-9. **(Spa)**

MICROBIOLOGY

Genetic analysis of the Bordetella-host interaction. Cotter PA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:65-76

Use of ribotyping to distinguish Bordetella bronchiseptica isolates. Register KB, et al. **Int J Syst Bacteriol** 1997 Jul; 47(3):678-83

Molecular characterization of two Bordetella bronchiseptica strains isolated from children with coughs. Stefanelli P, et al. **J Clin Microbiol** 1997 Jun;35(6):1550-5

A porcine model for the evaluation of virulence of Bordetella bronchiseptica. Ackermann MR, et al. **J Comp Pathol** 1997 Jan;116(1):55-61

Comparative analysis of the virulence control systems of Bordetella pertussis and Bordetella bronchiseptica. Martínez de Tejada G, et al. **Mol Microbiol** 1996 Dec; 22(5):895-908

[Infection by Bordetella bronchiseptica in patients with AIDS (letter; comment)] Goenaga MA, et al.
Enferm Infecc Microbiol Clin 1997 Jan;15(1):48-9. Comment on: Enferm Infecc Microbiol Clin 1996 Aug-Sep;14(7):458-9. **(Spa)**

PATHOLOGY

Crystal containing membrane bound intracellular inclusion bodies in the epithelium of experimentally infected sinus mucosa. Westrin KM. **Ultrastruct Pathol** 1996 Nov-Dec; 20(6):563-9

PREVENTION & CONTROL

Bordetella parapertussis infections. Mastrantonio P, et al.
Dev Biol Stand 1997;89:255-9

An overview of the status of acellular pertussis vaccines in practice. Lopez AL, et al. **Drugs** 1997 Aug;54(2):189-96 (45 ref.)

Intrac vaccine: batch recall [letter] Smitherman P.
Vet Rec 1997 Jul 26;141(4):108

VETERINARY

Effects of interactions between Pasteurella haemolytica and Bordetella parapertussis on in vitro phagocytosis by lung macrophages. Hodgson JC, et al. **Biologicals** 1996 Dec; 24(4):325-8

Serum haptoglobin concentration in growing swine after intranasal challenge with Bordetella bronchiseptica and toxigenic Pasteurella multocida type D. Francisco CJ, et al. **Can J Vet Res** 1996 Jul;60(3):222-7

A porcine model for the evaluation of virulence of Bordetella bronchiseptica. Ackermann MR, et al. **J Comp Pathol** 1997 Jan;116(1):55-61

Effect of Bordetella bronchiseptica and serotype D Pasteurella multocida bacterin-toxoid on the occurrence of atrophic rhinitis after experimental infection with B. bronchiseptica and toxigenic type AP. multocida. Sakano T, et al. **J Vet Med Sci** 1997 Jan;59(1):55-7

[A new Bordetella species in sheep?] Mitsching M, et al. **Zentralbl Veterinarmed [B]** 1997 Jun;44(4):207-11 (Eng. Abstr.) **(Ger)**

BORDETELLA PERTUSSIS

see related
PERTUSSIS TOXINS
PERTUSSIS VACCINE

Simple, speedy, sensitive, and specific serodiagnosis of pertussis by using a particle agglutination test. Aoyama T, et al. **J Clin Microbiol** 1997 Jul;35(7):1859-61

Local transient induction of inflammatory cytokines after intranasal administration of recombinant Bordetella pertussis. Remoué F, et al. **Microb Pathog** 1997 May; 22(5):305-13

A causal relationship between Bordetella pertussis and Bordetella parapertussis infections. Kawai H, et al.
Scand J Infect Dis 1996;28(4):377-81

CHEMISTRY

Conserved sequence motifs in the unorthodox BvgS two-component sensor protein of Bordetella pertussis. Beier D, et al. **Mol Gen Genet** 1996 Aug 27;252(1-2):169-76

Characterization of BpH3, an H-NS-like protein in Bordetella pertussis. Goyard S, et al. **Mol Microbiol** 1997 May;24(4):815-23

CLASSIFICATION

Bordetella pertussis serotype of clinical isolates in Sweden during 1970-1995 and influence of vaccine efficacy studies. Tiru M, et al. **Dev Biol Stand** 1997;89:239-45

Epitopes of Bordetella pertussis lipopolysaccharides as potential markers for typing of isolates with monoclonal antibodies. Le Blay K, et al. **Microbiology** 1996 Apr;142 (Pt 4):971-8

DRUG EFFECTS

In vitro susceptibilities of Bordetella pertussis and Bordetella parapertussis to four fluoroquinolones (levofloxacin, d-ofloxacin, ofloxacin, and ciprofloxacin), cefpirome, and meropenem. Hoppe JE, et al.
Antimicrob Agents Chemother 1996 Mar;40(3):807-8

ENZYMOLOGY

Quantitation of adenylate cyclase of Bordetella pertussis by enzyme linked immunosorbent assay. Hozbor D, et al.
Biologicals 1995 Dec;23(4):279-84

Characterization of mutant Bordetella pertussis adenylate cyclase toxins with reduced affinity for calmodulin. Implications for the mechanism of toxin entry into target cells. Heveker N, et al. **Eur J Biochem** 1997 Feb 1; 243(3):643-9

Bordetella pertussis adenylate cyclase toxin: proCyaA and CyaC proteins synthesised separately in Escherichia coli produce active toxin in vitro. Westrop GD, et al. **Gene** 1996 Nov 21;180(1-2):91-9

GENETICS

Characterization of mutant Bordetella pertussis adenylate cyclase toxins with reduced affinity for calmodulin. Implications for the mechanism of toxin entry into target cells. Heveker N, et al. **Eur J Biochem** 1997 Feb 1; 243(3):643-9

In vivo and in vitro analysis of Bordetella pertussis catalase and Fe-superoxide dismutase mutants. Khelef N, et al.
FEMS Microbiol Lett 1996 Sep 1;142(2-3):231-5

Comparative DNA analysis of Bordetella pertussis clinical isolates by pulsed-field gel electrophoresis, randomly amplified polymorphism DNA, and ERIC polymerase chain reaction. Moissenet D, et al.
FEMS Microbiol Lett 1996 Oct 1;143(2-3):127-32

Nature of DNA binding and RNA polymerase interaction of the Bordetella pertussis BvgA transcriptional activator at the fha promoter. Boucher PE, et al. **J Bacteriol** 1997 Mar;179(5):1755-63

Cloning and characterization of an Mn-containing superoxide dismutase (SodA) of Bordetella pertussis.
Graeff-Wohlleben H, et al. **J Bacteriol** 1997 Apr; 179(7):2194-201

Characterization of DNA binding sites for the BvgA protein of Bordetella pertussis. Karimova G, et al. **J Bacteriol** 1997 Jun;179(11):3790-2

Genomic fluidity of Bordetella pertussis assessed by a new method for chromosomal mapping. Stibitz S, et al.
J Bacteriol 1997 Sep;179(18):5820-6

Evidence for a ninth gene, ptlI, in the locus encoding the pertussis toxin secretion system of Bordetella pertussis and formation of a PtlI-PtlF complex. Farizo KM, et al.
J Biol Chem 1996 Dec 6;271(49):31643-9

Detection of Bordetella pertussis by rapid-cycle PCR and colorimetric microwell hybridization. Buck GE.
J Clin Microbiol 1996 Jun;34(6):1355-8

Multiplex PCR-based assay for detection of Bordetella pertussis in nasopharyngeal swab specimens. Wadowsky RM, et al. **J Clin Microbiol** 1996 Nov;34(11):2645-9

Tn5-induced lipopolysaccharide mutations in Bordetella pertussis that affect outer membrane function. Turcotte ML, et al. **Microbiology** 1997 Jul;143 (Pt 7):2381-94

Dynamics of the population structure of Bordetella pertussis as measured by IS1002-associated RFLP: comparison of pre- and post-vaccination strains and global distribution. van der Zee A, et al. **Microbiology** 1996 Dec;142 (Pt 12):3479-85

Genetic analysis of pertussis toxin promoter activation in Bordetella pertussis. Marques RR, et al. **Mol Microbiol** 1997 Jun;24(6):1215-24

The Bordetella pertussis sigma subunit of RNA polymerase confers enhanced expression of fha in Escherichia coli. Steffen P, et al. **Mol Microbiol** 1997 Mar;23(5):945-54

GROWTH & DEVELOPMENT

Bacterial growth and virulence factors production by different Bordetella pertussis strains. Lętowska I, et al.
Acta Microbiol Pol 1997;46(1):45-55

Analysis of Bordetella pertussis suspensions by ELISA and flow cytometry. Jiskoot W, et al. **Adv Exp Med Biol** 1996; 397:153-7

IMMUNOLOGY

Pertussis antigens that abrogate bacterial adherence and elicit immunity. Brennan MJ, et al.
Am J Respir Crit Care Med 1996 Oct;154(4 Pt 2):S145-9 (34 ref.)

Cell-mediated and antibody responses to Bordetella pertussis antigens in children vaccinated with acellular or whole-cell pertussis vaccines. The Progetto Pertosse-CMI Working Group. Cassone A, et al. **Arch Pediatr Adolesc Med** 1997 Mar;151(3):283-9

Local cellular immunity to the respiratory pathogen Bordetella pertussis: role of costimulatory molecules. McGuirk P, et al. **Biochem Soc Trans** 1997 Feb;25(1):124S

Mechanisms of immunity to the respiratory pathogen Bordetella pertussis in normal and gene knockout mice: clearance of primary infection is not enhanced by

therapeutic interleukin-12. Mahon BP, et al. **Biochem Soc Trans** 1997 May;25(2):341S

Collaborative study for the evaluation of enzyme-linked immunosorbent assays used to measure human antibodies to Bordetella pertussis antigens. Lynn F, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):689-700

Effect of inactivated poliovirus vaccine on the antibody response to Bordetella pertussis antigens when combined with diphtheria-pertussis-tetanus vaccine. Halperin SA, et al. **Clin Infect Dis** 1996 Jan;22(1):59-62

Acellular vaccines induce cell-mediated immunity to Bordetella pertussis antigens in infants undergoing primary vaccination against pertussis. Ausiello CM, et al. **Dev Biol Stand** 1997;89:315-20

Serological responses to infection with B. pertussis. Giammanco A, et al. **Dev Biol Stand** 1997;89:213-20

A comparison of enzyme immunoassays used to measure serum antibodies to components of Bordetella pertussis. Lynn F, et al. **Dev Biol Stand** 1997;89:197-204

Bordetella pertussis-specific Th1/Th2 cells generated following respiratory infection or immunization with an acellular vaccine: comparison of the T cell cytokine profiles in infants and mice. Ryan M, et al. **Dev Biol Stand** 1997; 89:297-305

Examination of similarities between diphtheria and pertussis and their toxoids provide insight into vaccine-induced protection to Bordetella pertussis. Schneerson R, et al. **Dev Biol Stand** 1997;89:321-6 (35 ref.)

An overview of the status of acellular pertussis vaccines in practice. Lopez AL, et al. **Drugs** 1997 Aug;54(2):189-96 (45 ref.)

A cellular pertussis vaccine (Infanrix-DTPa; SB-3). A review of its immunogenicity, protective efficacy and tolerability in the prevention of Bordetella pertussis infection. Patel SS, et al. **Drugs** 1996 Aug;52(2):254-75 (136 ref.)

Protective role of immunoglobulin G antibodies to filamentous hemagglutinin and pertactin of Bordetella pertussis in Bordetella parapertussis infection. He Q, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):793-8

Comparative safety and immunogenicity of an acellular versus whole-cell pertussis component of diphtheria-tetanus-pertussis vaccines in Senegalese infants. Simondon F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec;15(12):927-32

Characterisation of a novel airway late phase model in the sensitized guinea pig which uses silica and Bordetella pertussis as adjuvant for sensitization. Heuer HO, et al. **Eur J Pharmacol** 1996 Dec 19;317(2-3):361-8

In vitro and in vivo induction of nitric oxide by murine macrophages stimulated with Bordetella pertussis. Torre D, et al. **FEMS Immunol Med Microbiol** 1996 Feb; 13(2):95-9

Epitope mapping the Fim2 and Fim3 proteins of Bordetella pertussis with sera from patients infected with or vaccinated against whooping cough. Williamson P, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):169-78

Vaccine- and antigen-dependent type 1 and type 2 cytokine induction after primary vaccination of infants with whole-cell or acellular pertussis vaccines. Ausiello CM, et al. **Infect Immun** 1997 Jun;65(6):2168-74

Characterization of a recombinant fragment that contains a carbohydrate recognition domain of the filamentous hemagglutinin. Liu DF, et al. **Infect Immun** 1997 Aug; 65(8):3465-8

Interleukin-12 is produced by macrophages in response to live or killed Bordetella pertussis and enhances the efficacy of an acellular pertussis vaccine by promoting induction of Th1 cells. Mahon BP, et al. **Infect Immun** 1996 Dec; 64(12):5295-301

Pertussis-specific cell-mediated immunity in infants after vaccination with a tricomponent acellular pertussis vaccine. Zepp F, et al. **Infect Immun** 1996 Oct;64(10):4078-84

Quantification of cell-associated and free antigens in Bordetella pertussis suspensions by antigen binding ELISA. Westdijk J, et al. **J Immunoassay** 1997 Aug;18(3):267-84

Immunodominant domains present on the Bordetella pertussis vaccine component filamentous hemagglutinin. Leininger E, et al. **J Infect Dis** 1997 Jun;175(6):1423-31

Bordetella pertussis respiratory infection in children is associated with preferential activation of type 1 T helper cells. Ryan M, et al. **J Infect Dis** 1997 May;175(5):1246-50

Epitopes of Bordetella pertussis lipopolysaccharides as potential markers for typing of isolates with monoclonal antibodies. Le Blay K, et al. **Microbiology** 1996 Apr;142 (Pt 4):971-8

Hepatitis C after immunoglobulin administration [letter; comment] Barton LL. **Pediatr Infect Dis J** 1996 Jun; 15(6):558. Comment on: Pediatr Infect Dis J 1995 Nov;14(11):982-92.

Unchanged efficacy of a pertussis toxoid vaccine throughout the two years after the third vaccination of infants. Taranger J, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):180-4

Induction of mucosal immune responses against a heterologous antigen fused to filamentous hemagglutinin after intranasal immunization with recombinant Bordetella pertussis. Renauld-Mongénie G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7944-9

Anti-viral protection conferred by recombinant adenylate cyclase toxins from Bordetella pertussis carrying a CD8+ T cell epitope from lymphocytic choriomeningitis virus. Saron MF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1; 94(7):3314-9

Delivery of the Pertactin/P.69 polypeptide of Bordetella pertussis using an attenuated Salmonella typhimurium vaccine strain: expression levels and immune response. Anderson R, et al. **Vaccine** 1996 Oct;14(14):1384-90

A nasal whole-cell pertussis vaccine can induce strong systemic and mucosal antibody responses which are not enhanced by cholera toxin. Berstad AK, et al. **Vaccine** 1997 Aug-Sep;15(12-13):1473-8

Responses to primary and a booster dose of acellular, component, and whole-cell pertussis vaccines initiated at 2 months of age. Huang LM, et al. **Vaccine** 1996 Jun; 14(9):916-22

[Antigenic structure of the Pro-rich region 536-566 of Bordetella pertussis pertactin (P.69). II. Analysis of peptide-specific antibodies] Kavun EM, et al. **Biokhimiia** 1996 Aug;61(8):1366-74 (Eng. Abstr.) **(Rus)**

[A comparative analysis of the effect of Bordetella pertussis preparations on a primary culture of murine peritoneal macrophages] Tiukavkina SIu, et al. **Mikrobiol Z** 1996 Mar-Apr;58(2):58-63 (Eng. Abstr.) **(Rus)**

[The expression of Bordetella pertussis protective antigens during bacterial multiplication on a medium with a fixed chemical composition] Shmeleva EI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar-Apr; (2):47-50 (Eng. Abstr.) **(Rus)**

[An acellular pertussis vaccine based on the natural complex of antigens isolated from the supernatant of a synthetic culture medium] Zakharova NS, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):67-70 (Eng. Abstr.) **(Rus)**

[A polyvalent complex of Bordetella pertussis antigens as the basis for an acellular pertussis vaccine] Zakharova NS, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):70-2 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Rapid, sensitive and specific diagnosis of Bordetella pertussis using the polymerase chain reaction. Aoyama T, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):44-7

Children's corner. Colquhoun JP. **Aust Fam Physician** 1997 Jul;26(7):875

Isolation, identification and characterization of Bordetella pertussis. Guiso N. **Dev Biol Stand** 1997;89:233-8 (7 ref.)

Polymerase chain reaction for the identification of Bordetella pertussis and Bordetella parapertussis. Stefanelli P, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):197-200

Detection of Bordetella pertussis by rapid-cycle PCR and colorimetric microwell hybridization. Buck GE. **J Clin Microbiol** 1996 Jun;34(6):1355-8

Detection of Bordetella pertussis in clinical specimens by PCR and a microtiter plate-based DNA hybridization assay. Nelson S, et al. **J Clin Microbiol** 1997 Jan; 35(1):117-20

Multiplex PCR-based assay for detection of Bordetella pertussis in nasopharyngeal swab specimens. Wadowsky RM, et al. **J Clin Microbiol** 1996 Nov;34(11):2645-9

Impact of polymerase chain reaction on clinical pertussis research: Finnish and Swiss experiences. He Q, et al. **J Infect Dis** 1996 Dec;174(6):1288-95

[Biological diagnosis of whooping cough: contribution of gene amplification (editorial)] Prevel A, et al. **Presse Med** 1997 May 17;26(16):761-3 (Eng. Abstr.) **(Fre)**

METABOLISM

Bacterial growth and virulence factors production by different Bordetella pertussis strains. Lętowska I, et al. **Acta Microbiol Pol** 1997;46(1):45-55

Bordetella pertussis binds the human complement regulator C4BP: role of filamentous hemagglutinin. Berggård K, et al. **Infect Immun** 1997 Sep;65(9):3638-43

Lack of functional complementation between Bordetella pertussis filamentous hemagglutinin and Proteus mirabilis HpmA hemolysin secretion machineries. Jacob-Dubuisson F, et al. **J Bacteriol** 1997 Feb;179(3):775-83

Quantification of cell-associated and free antigens in Bordetella pertussis suspensions by antigen binding ELISA. Westdijk J, et al. **J Immunoassay** 1997 Aug;18(3):267-84

Selective adherence of non-typeable Haemophilus influenzae (NTHi) to mucus or epithelial cells in the chinchilla eustachian tube and middle ear. Miyamoto N, et al. **Microb Pathog** 1996 Nov;21(5):343-56

Amino-terminal maturation of the Bordetella pertussis filamentous haemagglutinin. Jacob-Dubuisson F, et al. **Mol Microbiol** 1996 Jan;19(1):65-78

Phosphorylation-dependent binding of BvgA to the upstream region of the cyaA gene of Bordetella pertussis. Karimova G, et al. **Mol Microbiol** 1996 May;20(3):489-96

Differential binding of BvgA to two classes of virulence genes of Bordetella pertussis directs promoter selectivity by RNA polymerase. Zu T, et al. **Mol Microbiol** 1996 Aug; 21(3):557-65

PATHOGENICITY

Development and environmental factors that enhance binding of Bordetella pertussis to human epithelial cells in relation to sudden infant death syndrome (SIDS). Saadi AT, et al. **FEMS Immunol Med Microbiol** 1996 Nov;16(1):51-9

In vivo and in vitro analysis of Bordetella pertussis catalase and Fe-superoxide dismutase mutants. Khelef N, et al. **FEMS Microbiol Lett** 1996 Sep 1;142(2-3):231-5

Role of the Bordetella pertussis P.69/pertactin protein and the P.69/pertactin RGD motif in the adherence to and invasion of mammalian cells. Everest P, et al. **Microbiology** 1996 Nov;142 (Pt 11):3261-8

Comparative analysis of the virulence control systems of Bordetella pertussis and Bordetella bronchiseptica. Martínez de Tejada G, et al. **Mol Microbiol** 1996 Dec; 22(5):895-908

Fatal Bordetella pertussis infection: report of two cases with novel pathologic findings. Hackman R, et al. **Pediatr Pathol Lab Med** 1996 Jul-Aug;16(4):643-53

[Virulence factors of Bordetella pertussis] Sato H. **Nippon Saikingaku Zasshi** 1996 Aug;51(3):737-44 (29 ref.) **(Jpn)**

PHYSIOLOGY

Purification, spectroscopic analysis and biological activity of the macrocyclic dihydroxamate siderophore alcaligin produced by Bordetella pertussis and Bordetella bronchiseptica. Brickman TJ, et al. **Biometals** 1996 Apr; 9(2):191-203

Bordetella pertussis infection of human monocytes inhibits antigen-dependent CD4 T cell proliferation. Boschwitz JS, et al. **J Infect Dis** 1997 Sep;176(3):678-86

Signal transduction and virulence regulation in Bordetella pertussis. Beier D, et al. **Microbiologia** 1996 Jun; 12(2):185-96 (60 ref.)

ULTRASTRUCTURE

Three-dimensional structure of Bordetella pertussis fimbriae. Heck DV, et al. **J Struct Biol** 1996 Mar-Apr;116(2):264-9

BORDETELLA PERTUSSIS TOXINS see **PERTUSSIS TOXINS**

BOREDOM

Urban-rural differences in adolescent self-esteem, leisure boredom, and sensation-seeking as predictors of leisure-time usage and satisfaction. Gordon WR, et al. **Adolescence** 1996 Winter;31(124):883-901

Effects of instruction type and boredom proneness in vigilance: implications for boredom and workload. Sawin DA, et al. **Hum Factors** 1995 Dec;37(4):752-65

Preventing violence, preventing war. Ashford MW. **Med Confl Surviv** 1997 Jan-Mar;13(1):57-62 (7 ref.)

[The individual typological characteristics of operator activity during long-term monotonous work on the computer] Grigorian VG, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):859-65 (Eng. Abstr.) **(Rus)**

BORIC ACIDS

ANALYSIS

A human health risk assessment of boron (boric acid and borax) in drinking water. Murray FJ. **Regul Toxicol Pharmacol** 1995 Dec;22(3):221-30

PHARMACOKINETICS

Accumulation of boron in malignant and normal cells incubated in vitro with boronophenylalanine, mercaptoborane or boric acid. Capala J, et al. **Radiat Res** 1996 Nov;146(5):554-60

PHARMACOLOGY

More on the inhibition of the urease reaction by boric acid. Jones GR. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):430-2

Effect of boric acid solution on cartilage metabolism. Benderdour M, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):263-8

The effects of dietary boron on bone strength in rats. Chapin RE, et al. **Fundam Appl Toxicol** 1997 Feb;35(2):205-15

THERAPEUTIC USE

Treatment of Torulopsis glabrata vaginitis: retrospective review of boric acid therapy. Sobel JD, et al. **Clin Infect Dis** 1997 Apr;24(4):649-52

TOXICITY

Reproductive toxicology. Boric acid. **Environ Health Perspect** 1997 Feb;105 Suppl 1:275-6

Benchmark dose analysis of developmental toxicity in rats exposed to boric acid. Allen BC, et al. **Fundam Appl Toxicol** 1996 Aug;32(2):194-204

Developmental toxicity NOAEL and postnatal recovery in rats fed boric acid during gestation. Price CJ, et al. **Fundam Appl Toxicol** 1996 Aug;32(2):179-93

The developmental toxicity of boric acid in rabbits. Price CJ, et al. **Fundam Appl Toxicol** 1996 Dec;34(2):176-87

A human health risk assessment of boron (boric acid and borax) in drinking water. Murray FJ. **Regul Toxicol Pharmacol** 1995 Dec;22(3):221-30

An assessment of boric acid and borax using the IEHR Evaluative Process for Assessing Human Developmental and Reproductive Toxicity of Agents. Expert Scientific Committee. Moore JA. **Reprod Toxicol** 1997 Jan-Feb; 11(1):123-60 (137 ref.)

BORNA DISEASE

[Borna disease virus. An etiological agent in neuropsychiatric diseases?] Christensen LS. **Ugeskr Laeger** 1997 Jun 16; 159(25):3930–3 (30 ref.) (Eng. Abstr.) **(Dan)**

[Immunopathology of Borna disease in the horse: clinical, virological and neuropathologic findings] Bilzer T, et al. **Tierarztl Prax** 1996 Dec;24(6):567–76 (Eng. Abstr.) **(Ger)**

BLOOD

Unusually high seroprevalence of Borna disease virus in clade E human immunodeficiency virus type 1–infected patients with sexually transmitted diseases in Thailand. Auwanit W, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):590–3

Failure to detect Borna disease virus infection in peripheral blood leukocytes from humans with psychiatric disorders. Richt JA, et al. **J Neurovirol** 1997 Apr;3(2):174–8

COMPLICATIONS

Lack of association of Borna disease virus and human T-cell leukemia virus type 1 infections with psychiatric disorders among Japanese patients. Kubo K, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):189–94

Borna disease. Hatalski CG, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):129–35 (63 ref.)

Tardive dyskinetic syndrome in rats infected with Borna disease virus. Solbrig MV, et al. **Neurobiol Dis** 1994 Dec; 1(3):111–9

DRUG THERAPY

Amantadine and human Borna disease virus in vitro and in vivo in an infected patient with bipolar depression [letter] [see comments] Bode L, et al. **Lancet** 1997 Jan 18; 349(9046):178–9. Comment in: Lancet 1997 Mar 29;349(9056):958.

Naloxone-induced seizures in rats infected with Borna disease virus. Solbrig MV, et al. **Neurology** 1996 Apr; 46(4):1170–1

EPIDEMIOLOGY

Unusually high seroprevalence of Borna disease virus in clade E human immunodeficiency virus type 1–infected patients with sexually transmitted diseases in Thailand. Auwanit W, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):590–3

High prevalence of Borna disease virus infection in healthy sheep in Japan. Hagiwara K, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):339–44

Higher prevalence of Borna disease virus infection in blood donors living near thoroughbred horse farms. Takahashi H, et al. **J Med Virol** 1997 Jul;52(3):330–5

Varied prevalence of Borna disease virus infection in Arabic, thoroughbred and their cross-bred horses in Iran. Bahmani MK, et al. **Virus Res** 1996 Nov;45(1):1–13

ETIOLOGY

Borna disease virus infection in animals and humans. Richt JA, et al. **Emerg Infect Dis** 1997 Jul–Sep;3(3):343–52 (78 ref.)

HISTORY

Borna disease virus (BDV), a (zoonotic?) worldwide pathogen. A review of the history of the disease and the virus infection with comprehensive bibliography. Dürrwald R, et al. **Zentralbl Veterinarmed [B]** 1997 May; 44(3):147–84

IMMUNOLOGY

Brain cell lesions in Borna disease are mediated by T cells. Bilzer T, et al. **Arch Virol Suppl** 1993;7:153–8 (20 ref.)

Flow cytometric analysis of major histocompatibility complex (MHC) class II antigen expression on brain cells from Borna disease virus–infected rats without an intervening in vitro culture step. Rubin SA, et al. **Exp Neurol** 1997 Jul;146(1):286–90

METABOLISM

A neural substrate of hyperactivity in borna disease: changes in brain dopamine receptors. Solbrig MV, et al. **Virology** 1996 Aug 15;222(2):332–8

PATHOLOGY

Neurological disease and encephalitis in cats experimentally infected with Borna disease virus. Lundgren AL, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):391–401

PHYSIOPATHOLOGY

Borna disease virus infection and affective disorders in man. Bode L, et al. **Arch Virol Suppl** 1993;7:159–67

Pathogenesis of Borna disease. Stitz L, et al. **Arch Virol Suppl** 1993;7:135–51 (42 ref.)

Prefrontal cortex dysfunction in Borna disease virus (BDV)—infected rats. Solbrig MV, et al. **Biol Psychiatry** 1996 Oct 1;40(7):629–36

Signaling pathways in virus-induced CNS inflammation. Dietzschold B, et al. **J Neurovirol** 1997 May;3 Suppl 1:S58–9

Neurobiology of Borna disease virus. Lipkin WI, et al. **J Neurovirol** 1997 May;3 Suppl 1:S17–20 (52 ref.)

Intrinsic responses to Borna disease virus infection of the central nervous system. Morimoto K, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13345–50

VIROLOGY

Biology and neurobiology of Borna disease viruses (BDV), defined by antibodies, neutralizability and their pathogenic potential. Ludwig H, et al. **Arch Virol Suppl** 1993;7:111–33

Borna disease virus: nature of the etiologic agent and significance of infection in man. Richt JA, et al. **Arch Virol Suppl** 1993;7:101–9 (31 ref.)

A reverse-type sandwich enzyme-linked immunosorbent assay for detecting antibodies to Borna disease virus. Horimoto T, et al. **J Clin Microbiol** 1997 Jul;35(7):1661–6

Effect ,of neurotropic virus infection on neuronal and inducible nitric oxide synthase activity in rat brain. Akaike T, et al. **J Neurovirol** 1995 Mar;1(1):118–25

Detection of Borna disease virus (BDV) antibodies and BDV RNA in psychiatric patients: evidence for high sequence conservation of human blood-derived BDV RNA. Sauder C, et al. **J Virol** 1996 Nov;70(11):7713–24

Induction of degenerative brain lesions after adoptive transfer of brain lymphocytes from Borna disease virus–infected rats: presence of CD8+ T cells and perforin mRNA. Sobbe M, et al. **J Virol** 1997 Mar;71(3):2400–7

Demonstration of Borna disease virus (BDV) in specific regions of the brain from horses positive for serum antibodies to BDV but negative for BDV RNA in the blood and internal organs. Hagiwara K, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):19–24

Possible correlation between Borna disease virus infection and Japanese patients with chronic fatigue syndrome. Kitani T, et al. **Microbiol Immunol** 1996;40(6):459–62

The atypical strategies used for gene expression of Borna disease virus, a nonsegmented, negative-strand RNA virus. Schneemann A, et al. **Uirusu** 1995 Dec;45(2):165–74 (39 ref.)

BORNA DISEASE VIRUS

Brain cell lesions in Borna disease are mediated by T cells. Bilzer T, et al. **Arch Virol Suppl** 1993;7:153–8 (20 ref.)

Borna disease virus: nature of the etiologic agent and significance of infection in man. Richt JA, et al. **Arch Virol Suppl** 1993;7:101–9 (31 ref.)

Pathogenesis of Borna disease. Stitz L, et al. **Arch Virol Suppl** 1993;7:135–51 (42 ref.)

[Borna disease virus. An etiological agent in neuropsychiatric diseases?] Christensen LS. **Ugeskr Laeger** 1997 Jun 16; 159(25):3930–3 (30 ref.) (Eng. Abstr.) **(Dan)**

CHEMISTRY

The glycosylated matrix protein of Borna disease virus is a tetrameric membrane-bound viral component essential for infection. Stoyloff R, et al. **Eur J Biochem** 1997 May 15;246(1):252–7

DRUG EFFECTS

Depression, Borna disease, and amantadine [letter; comment] Lieb K, et al. **Lancet** 1997 Mar 29;349(9056):958. Comment on: Lancet 1997 Jan 18;349(9046):178–9.

ENZYMOLOGY

Effect of neurotropic virus infection on neuronal and inducible nitric oxide synthase activity in rat brain. Akaike T, et al. **J Neurovirol** 1995 Mar;1(1):118–25

GENETICS

Microplate hybridization for Borna disease virus RNA in human peripheral blood mononuclear cells. Fujiwara S, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):387–91

Evidence for translation of the Borna disease virus G protein by leaky ribosomal scanning and ribosomal reinitiation. Schneider PA, et al. **J Virol** 1997 Jul;71(7):5614–9

Borna disease virus RNA in peripheral blood mononuclear cells obtained from healthy dairy cattle. Hagiwara K, et al. **Med Microbiol Immunol (Berl)** 1996 Nov;185(3):145–51

Amplification of a full-length Borna disease virus (BDV) cDNA from total RNA of cells persistently infected with BDV. Shoya Y, et al. **Microbiol Immunol** 1997;41(6):481–6

The atypical strategies used for gene expression of Borna disease virus, a nonsegmented, negative-strand RNA virus. Schneemann A, et al. **Uirusu** 1995 Dec;45(2):165–74 (39 ref.)

Sequence characterization of human Borna disease virus. de la Torre JC, et al. **Virus Res** 1996 Sep;44(1):33–44

IMMUNOLOGY

Unusually high seroprevalence of Borna disease virus in clade E human immunodeficiency virus type 1–infected patients with sexually transmitted diseases in Thailand. Auwanit W, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):590–3

A reverse-type sandwich enzyme-linked immunosorbent assay for detecting antibodies to Borna disease virus. Horimoto T, et al. **J Clin Microbiol** 1997 Jul;35(7):1661–6

No evidence of Borna disease virus-specific antibodies in multiple sclerosis patients in Germany [letter] Kitze B, et al. **J Neurol** 1996 Sep;243(9):660–2

Characterization of the Borna disease virus phosphoprotein, p23. Kliche S, et al. **J Virol** 1996 Nov;70(11):8133–7

First isolates of infectious human Borna disease virus from patients with mood disorders [see comments] Bode L, et al. **Mol Psychiatry** 1996 Jul;1(3):200–12. Comment in: Mol Psychiatry 1996 Jul;1(3):165–7.

Borna disease virus antibodies and the deficit syndrome of schizophrenia. Waltrip RW 2nd, et al. **Schizophr Res** 1997 Feb 28;23(3):253–7

ISOLATION & PURIFICATION

Borna disease virus infection and affective disorders in man. Bode L, et al. **Arch Virol Suppl** 1993;7:159–67

Microplate hybridization for Borna disease virus RNA in human peripheral blood mononuclear cells. Fujiwara S, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):387–91

Failure to detect Borna disease virus infection in peripheral blood leukocytes from humans with psychiatric disorders. Richt JA, et al. **J Neurovirol** 1997 Apr;3(2):174–8

Detection of Borna disease virus (BDV) antibodies and BDV RNA in psychiatric patients: evidence for high sequence conservation of human blood-derived BDV RNA. Sauder C, et al. **J Virol** 1996 Nov;70(11):7713–24

Borna disease virus and neuropsychiatric disorders. The Japan Bornavirus Study Group [letter; comment] Haga S, et al. **Lancet** 1997 Aug 23;350(9077):592–3. Comment on: Lancet 1997 Jun 21;349(9068):1813–4.

Borna disease virus and neurospsychiatric disorders. The Japan Bornavirus Study Group [letter; comment] Nowotny N, et al. **Lancet** 1997 Aug 23;350(9077):593. Comment on: Lancet 1997 Jun 21;349(9068):1813–4.

Borna disease virus in brains of North American and European people with schizophrenia and bipolar disorder. Bornavirus Study Group [letter] [see comments] Salvatore M, et al. **Lancet** 1997 Jun 21;349(9068):1813–4. Comment in: Lancet 1997 Aug 23;350(9077):592–3. Comment in: Lancet 1997 Aug 23;350(9077):593.

Demonstration of Borna disease virus (BDV) in specific regions of the brain from horses positive for serum antibodies to BDV but negative for BDV RNA in the blood and internal organs. Hagiwara K, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):19–24

Possible correlation between Borna disease virus infection and Japanese patients with chronic fatigue syndrome. Kitani T, et al. **Microbiol Immunol** 1996;40(6):459–62

Detection of borna disease virus antigen and RNA in human autopsy brain samples from neuropsychiatric patients. De La Torre JC, et al. **Virology** 1996 Sep 15;223(2):272–82

Varied prevalence of Borna disease virus infection in Arabic, thoroughbred and their cross–bred horses in Iran. Bahmani MK, et al. **Virus Res** 1996 Nov;45(1):1–13

METABOLISM

Borna disease virus P-protein is phosphorylated by protein kinase Cepsilon and casein kinase II. Schwemmle M, et al. **J Biol Chem** 1997 Aug 29;272(35):21818–23

Molecular basis for the differential subcellular localization of the 38- and 39-kilodalton structural proteins of Borna disease virus. Pyper JM, et al. **J Virol** 1997 Jul;71(7):5133–9

Biochemical and functional analysis of the Borna disease virus G protein. Schneider PA, et al. **J Virol** 1997 Jan;71(1):331–6

PATHOGENICITY

Neurobiology of Borna disease virus. Lipkin WI, et al. **J Neurovirol** 1997 May;3 Suppl 1:S17–20 (52 ref.)

Induction of degenerative brain lesions after adoptive transfer of brain lymphocytes from Borna disease virus–infected rats: presence of CD8+ T cells and perforin mRNA. Sobbe M, et al. **J Virol** 1997 Mar;71(3):2400–7

Borna disease virus (BDV), a (zoonotic?) worldwide pathogen. A review of the history of the disease and the virus infection with comprehensive bibliography. Dürrwald R, et al. **Zentralbl Veterinarmed [B]** 1997 May; 44(3):147–84

[Pathogenicity of Borna disease virus in psychiatric and neurologic disorders of humans. Current status of research and critical comments] Bechter K, et al. **Nervenarzt** 1997 May;68(5):425–30 (33 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Biology and neurobiology of Borna disease viruses (BDV), defined by antibodies, neutralizability and their pathogenic potential. Ludwig H, et al. **Arch Virol Suppl** 1993;7:111–33

Signaling pathways in virus–induced CNS inflammation. Dietzschold B, et al. **J Neurovirol** 1997 May;3 Suppl 1:S58–9

Neurobiology of Borna disease virus. Lipkin WI, et al. **J Neurovirol** 1997 May;3 Suppl 1:S17–20 (52 ref.)

Characterization of Borna disease virus p56 protein, a surface glycoprotein involved in virus entry. Gonzalez–Dunia D, et al. **J Virol** 1997 Apr;71(4):3208–18

Intrinsic responses to Borna disease virus infection of the central nervous system. Morimoto K, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13345–50

BORNHOLM DISEASE VIRUS see **COXSACKIEVIRUSES B**

BOROHYDRIDES

ADMINISTRATION & DOSAGE

Na2B12H11SH (BSH) in combination with systemic hyaluronidase: a promising concept for boron neutron capture therapy for glioblastoma. Haselsberger K, et al. **Neurosurgery** 1996 Aug;39(2):321–5; discussion 325–6

ANALYSIS

The role of boron MRI in boron neutron capture therapy. Kabalka GW, et al. **J Neurooncol** 1997 May;33(1–2):153–61

DIAGNOSTIC USE

Liposomal formulations containing sodium mercaptoundecahydrododecaborate (BSH) for boron neutron capture therapy. Mehta SC, et al. **J Microencapsul** 1996 May–Jun;13(3):269–79

PHARMACOKINETICS

Pharmacokinetics of Na2B12H11SH (BSH) in patients with malignant brain tumours as prerequisite for a phase I clinical trial of boron neutron capture. Gabel D, et al. **Acta Neurochir (Wien)** 1997;139(7):606–11; discussion 611–2

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of either sodium borocaptate or boronophenylalanine with or without blood–brain barrier disruption. Barth RF, et al. **Cancer Res** 1997 Mar 15;57(6):1129–36

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of sodium borocaptate with or without blood–brain barrier disruption. Yang W, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):663–72

Pharmacokinetics and boron uptake of BSH (Na2B12H11SH) in patients with intracranial tumors. Kageji T, et al. **J Neurooncol** 1997 May;33(1–2):117–30

Binding and distribution of Na2B12H11SH on cellular and subcellular level in tumor tissue of glioma patients in boron neutron capture therapy. Otersen B, et al. **J Neurooncol** 1997 May;33(1–2):131–9

PHARMACOLOGY

Boron neutron capture irradiation of the rat spinal cord: effects of variable doses of borocaptate sodium. Morris GM, et al. **Radiother Oncol** 1996 Jun;39(3):253–9

BORON

1H-NMR relaxometric study of pancreatic serine (pro)enzyme inhibition by a Gd(III) chelate bearing boronic functionalities. Aime S, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):741–6

The role of boron MRI in boron neutron capture therapy. Kabalka GW, et al. **J Neurooncol** 1997 May;33(1–2):153–61

Deliberations and evaluations of the approaches, endpoints and paradigms for boron, chromium and fluoride dietary recommendations. Hunt CD, et al. **J Nutr** 1996 Sep;126(9 Suppl):2441S–2451S

Direct PCR sequencing with boronated nucleotides. Porter KW, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1611–7

[First drafts of the Environmental Health Criteria (EHC) circulated for comments by IPCS in 1995–1996] Ohtake C. **Eisei Shikenjo Hokoku** 1996;(114):95–8 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Metabolic responses of postmenopausal women to supplemental dietary boron and aluminum during usual and low magnesium intake: boron, calcium, and magnesium absorption and retention and blood mineral concentrations. Hunt CD, et al. **Am J Clin Nutr** 1997 Mar;65(3):803–13

The effect of boron supplementation on its urinary excretion and selected cardiovascular risk factors in healthy male subjects. Naghii MR, et al. **Biol Trace Elem Res** 1997 Mar; 56(3):273–86

Effects of boron on growing pullets. Wilson JH, et al. **Biol Trace Elem Res** 1997 Mar;56(3):287–94

The boron content of selected foods and the estimation of its daily intake among free-living subjects. Naghii MR, et al. **J Am Coll Nutr** 1996 Dec;15(6):614–9

Synthesis of carboranes containing an azulene framework and in vitro evaluation as boron carriers. Nakamura H, et al. **J Med Chem** 1997 Aug 29;40(18):2825–30

ANALYSIS

Imaging of boron in tissue at the cellular level for boron neutron capture therapy. Arlinghaus HF, et al. **Anal Chem** 1997 Aug 15;69(16):3169–76

Ion microscopy imaging of 10B from p-boronophenylalanine in a brain tumor model for boron neutron capture therapy. Smith DR, et al. **Cancer Res** 1996 Oct 1;56(19):4302–6

The boron content of selected foods and the estimation of its daily intake among free-living subjects. Naghii MR, et al. **J Am Coll Nutr** 1996 Dec;15(6):614–9

An assessment of heavy metals and boron contamination in workplace atmospheres from ceramic factories. Roig-Navarro AF, et al. **Sci Total Environ** 1997 Aug 18; 201(3):225–34

BLOOD

Serum boron concentration from inhabitants of an urban area in Japan. Reference value and interval for the health screening of boron exposure. Usuda K, et al. **Biol Trace Elem Res** 1997 Feb;56(2):167–78

Boron diffusion across the dialysis membrane during hemodialysis. Usuda K, et al. **Miner Electrolyte Metab** 1997;23(2):100–4

Hemodialysis effect on serum boron level in the patients with long term hemodialysis [published erratum appears in Sci Total Environ 1997 Jan 30;193(3):279] Usuda K, et al. **Sci Total Environ** 1996 Nov 22;191(3):283–90

CHEMISTRY

Borinium adduct ion formation with barbiturates in a quadrupole ion-trap mass spectrometer. Colorado A, et al. **J Mass Spectrom** 1996 Apr;31(4):403–10

11B[27Al] and 27Al[11B] double resonance experiments on a glassy sodium aluminoborate. van Wüllen L, et al. **Solid State Nucl Magn Reson** 1996 Jun;6(3):203–12

DEFICIENCY

Quantitative analysis of EEG effects following experimental marginal magnesium and boron deprivation. Penland JG. **Magnes Res** 1995 Dec;8(4):341–58

DIAGNOSTIC USE

In vivo diagnosis of human malignant melanoma with positron emission tomography using specific melanoma-seeking 18F-DOPA analogue. Mishima Y, et al. **J Neurooncol** 1997 May;33(1–2):163–9

METABOLISM

Metabolic responses of postmenopausal women to supplemental dietary boron and aluminum during usual and low magnesium intake: boron, calcium, and magnesium absorption and retention and blood mineral concentrations. Hunt CD, et al. **Am J Clin Nutr** 1997 Mar;65(3):803–13

Effects of boron on growing pullets. Wilson JH, et al. **Biol Trace Elem Res** 1997 Mar;56(3):287–94

The effects of dietary boron on bone strength in rats. Chapin RE, et al. **Fundam Appl Toxicol** 1997 Feb;35(2):205–15

PHARMACOKINETICS

The biological effects of Auger electrons compared to alpha-particles and Li ions. Laster BH, et al. **Acta Oncol** 1996;35(7):917–23

Selective uptake of boronated low-density lipoprotein in melanoma xenografts achieved by diet supplementation. Setiawan Y, et al. **Br J Cancer** 1996 Dec;74(11):1705–8

Pharmacokinetics and boron uptake of BSH (Na2B12H11SH) in patients with intracranial tumors. Kageji T, et al. **J Neurooncol** 1997 May;33(1–2):117–30

Accumulation of boron in malignant and normal cells incubated in vitro with boronophenylalanine, mercaptoborane or boric acid. Capala J, et al. **Radiat Res** 1996 Nov;146(5):554–60

PHARMACOLOGY

Effects of dietary boron supplementation on laying hens. Wilson JH, et al. **Br Poult Sci** 1996 Sep;37(4):723–9

Mutagenic effects at HPRT locus induced in Chinese hamster ovary cells by thermal neutrons with or without boron compound. Kinashi Y, et al. **Mutat Res** 1997 Jul 3; 377(2):211–5

[Effect of boron on the ultrastructure of parathyrocytes and atrial cardiomyocytes] Korolev IuN, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):111–4 **(Rus)**

STANDARDS

Serum boron concentration from inhabitants of an urban area in Japan. Reference value and interval for the health screening of boron exposure. Usuda K, et al. **Biol Trace Elem Res** 1997 Feb;56(2):167–78

URINE

The effect of boron supplementation on its urinary excretion and selected cardiovascular risk factors in healthy male subjects. Naghii MR, et al. **Biol Trace Elem Res** 1997 Mar; 56(3):273–86

BORON COMPOUNDS

A comprehensive survey of the acid-stable fluorescent cross-links formed by ribose with basic amino acids, and partial characterization of a novel Maillard cross-link. Graham L. **Biochim Biophys Acta** 1996 Sep 13;1297(1):9–16

Progress in the field of compounds for boron neutron capture therapy. Gabel D. **Bull Cancer Radiother** 1996;83 Suppl:186s–90s (33 ref.)

ADMINISTRATION & DOSAGE

Inhibition of human pancreatic cancer growth in nude mice by boron neutron capture therapy. Yanagië H, et al. **Br J Cancer** 1997;75(5):660–5

Enhanced delivery of boronophenylalanine for neutron capture therapy by means of intracarotid injection and blood–brain barrier disruption. Yang W, et al. **Neurosurgery** 1996 May;38(5):985–92

New model for in vivo studies of pharmacological interventions with endogenous fibrinolysis: effects of thrombin inhibitors. Lenfors S, et al. **Semin Thromb Hemost** 1996;22(4):335–42

CHEMICAL SYNTHESIS

Synthesis and characterization of 4-iodophenylboronic acid: a new enhancer for the horseradish peroxidase-catalyzed chemiluminescent oxidation of luminol. Kricka LJ, et al. **Anal Biochem** 1996 Aug 15;240(1):119–25

Synthesis of carboranes containing an azulene framework and in vitro evaluation as boron carriers. Nakamura H, et al. **J Med Chem** 1997 Aug 29;40(18):2825–30

Synthesis and radioiodination of a nido-1,2-carboranyl derivative of 2-nitroimidazole. Wilbur DS, et al. **Nucl Med Biol** 1994 May;21(4):601–11

CHEMISTRY

A triphenylboroxin derivative possessing two intramolecular chelates. Robinson PD, et al. **Acta Crystallogr C** 1996 Nov 15;52 (Pt 11):2826–30

Conformational studies of dithymidine boranomonophosphate diastereoisomers. Li H, et al. **Bioorg Med Chem** 1997 May;5(5):787–95

A novel method for boronating antibodies without loss of immunoreactivity, for use in neutron capture therapy. Ferro VA, et al. **Drug Des Discov** 1995 Aug;13(1):13–25

Examination of hydroxyapatite filled 4-META/MMA-TBB adhesive bone cement in vitro and in vivo environment. Lee RR, et al. **J Biomed Mater Res** 1997 Spring;38(1):11–6

Studies on oriented and reversible immobilization of glycoprotein using novel boronate affinity gel. Liu XC, et al. **J Mol Recognit** 1996 Sep-Dec;9(5–6):462–7

Chemistry and biology of some low molecular weight boron compounds for boron neutron capture therapy. Sjöberg S, et al. **J Neurooncol** 1997 May;33(1–2):41–52 (75 ref.)

Bonding of a mica-based castable ceramic material with a tri-n-butylborane-initiated adhesive resin. Morikawa T, et al. **J Oral Rehabil** 1996 Jul;23(7):450–5

Bonding of titanium with acidic primers and a tri-n-butylborane-initiated luting agent. Taira Y, et al. **J Oral Rehabil** 1997 May;24(5):385–8

Isolation and characterization of soluble boron complexes in higher plants. The mechanism of phloem mobility of boron. Hu H, et al. **Plant Physiol** 1997 Feb;113(2):649–55

Use of borinium ions as probes of steric effects in gas-phase ion-molecule complexes. Isbell JJ, et al. **Rapid Commun Mass Spectrom** 1996;10(11):1418–20

Quantitative study of the short range order in B2O3 and B2S3 by MAS and two-dimensional triple-quantum MAS 11B NMR. Hwang SJ, et al. **Solid State Nucl Magn Reson** 1997 Apr;8(2):109–21

15 beta-hydroxysteroids (Part III). Steroids of the human perinatal period: the synthesis of 3 beta, 15 beta, 17 alpha-trihydroxy-5-pregnen-20-one. Application of n-butyl boronic acid protection of a 17,20-glycol. Joannou GE, et al. **Steroids** 1996 Jan;61(1):11–7

DIAGNOSTIC USE

In vivo diagnosis of human malignant melanoma with positron emission tomography using specific melanoma-seeking 18F-DOPA analogue. Mishima Y, et al. **J Neurooncol** 1997 May;33(1–2):163–9

METABOLISM

The biotransformation of t-butylacetonitrile and its boron-containing analogue trimethylamine-cyanoborane by Brevibacterium R312. Millais AJ, et al. **Arch Microbiol** 1997 Aug;168(2):164–8

Measurement of spontaneous transfer and transbilayer movement of BODIPY-labeled lipids in lipid vesicles. Bai J, et al. **Biochemistry** 1997 Jul 22;36(29):8840–8

Uptake and retention of nitroimidazole-carboranes designed for boron neutron capture therapy in experimental murine tumours: detection by 11B magnetic resonance spectroscopy. Wood PJ, et al. **Int J Radiat Biol** 1996 Nov; 70(5):587–92

Subcellular distribution of normal and mutant vitamin D receptors in living cells. Studies with a novel fluorescent ligand. Barsony J, et al. **J Biol Chem** 1997 Feb 28; 272(9):5774–82

Potent pheromonotropic/myotropic activity of a carboranyl pseudotetrapeptide analogue of the insect pyrokinin/PBAN neuropeptide family administered via injection or topical application. Nachman RJ, et al. **Peptides** 1996;17(5):747–52

A mechanism of drug action revealed by structural studies of enoyl reductase. Baldock C, et al. **Science** 1996 Dec 20;274(5295):2107–10

PHARMACOKINETICS

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of either sodium borocaptate or boronophenylalanine with or without blood–brain barrier disruption. Barth RF, et al. **Cancer Res** 1997 Mar 15;57(6):1129–36

Boron neutron capture therapy for glioblastoma multiforme using p-boronophenylalanine and epithermal neutrons: trial design and early clinical results. Coderre JA, et al. **J Neurooncol** 1997 May;33(1–2):141–52

Chemistry and biology of some low molecular weight boron compounds for boron neutron capture therapy. Sjöberg S, et al. **J Neurooncol** 1997 May;33(1–2):41–52 (75 ref.)
Photophysics and intracellular distribution of a boronated porphyrin phototherapeutic agent. Spizzirri PG, et al. **Photochem Photobiol** 1996 Dec;64(6):975–83
Accumulation of boron in malignant and normal cells incubated in vitro with boronophenylalanine, mercaptoborane or boric acid. Capala J, et al. **Radiat Res** 1996 Nov;146(5):554–60

PHARMACOLOGY

The cytotoxicity of adenosine 5'-[N,N-di-(gamma-o-carboranyl)propyl] phosphorodiamidate in human Tmolt3 leukemic cells. Hall IH, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):151–6
Chemical synthesis and biological activity of a novel fluorescent etoposide derivative. Lazo JS, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):715–22
Activation of the kallikrein-kinin system in arthritis and enterocolitis in genetically susceptible rats: modulation by a selective plasma kallikrein inhibitor. Colman RW, et al. **Proc Assoc Am Physicians** 1997 Jan;109(1):10–22

THERAPEUTIC USE

Boron substituted deoxyribonucleosides as cytotoxic agents. Hall IH, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3709–14
Enhanced survival of glioma bearing rats following boron neutron capture therapy with blood–brain barrier disruption and intracarotid injection of boronophenylalanine. Yang W, et al. **J Neurooncol** 1997 May;33(1–2):59–70

TOXICITY

A review: CNS effects and normal tissue tolerance in dogs. Gavin PR, et al. **J Neurooncol** 1997 May;33(1–2):71–80 (25 ref.)

BORON HYDRIDES see **BORANES**

BORON NEUTRON CAPTURE THERAPY

Pharmacokinetics of Na2B12H11SH (BSH) in patients with malignant brain tumours as prerequisite for a phase I clinical trial of boron neutron capture. Gabel D, et al. **Acta Neurochir (Wien)** 1997;139(7):606–11; discussion 611–2
Critical evaluation of bispecific antibodies as targeting agents for boron neutron capture therapy of brain tumors. Liu L, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2581–7
Boron neutron capture therapy. Beddoe AH. **Br J Radiol** 1997 Jul;70(835):665–7
Progress in the field of compounds for boron neutron capture therapy. Gabel D. **Bull Cancer Radiother** 1996;83 Suppl:186s–90s (33 ref.)
A dosimetry system for boron neutron capture therapy based on the dual counter microdosimetric technique. Kota C, et al. **Bull Cancer Radiother** 1996;83 Suppl:173s–5s
Fast neutron radiotherapy and boron neutron capture therapy: application to a human melanoma test system. Laramore GE, et al. **Bull Cancer Radiother** 1996;83 Suppl:191s–7s
BNCT as a boost for fast neutron therapy? Lüdemann L, et al. **Bull Cancer Radiother** 1996;83 Suppl:198s–200s
Boron neutron capture irradiation: setting up a clinical programme in Nice. Pignol JP, et al. **Bull Cancer Radiother** 1996;83 Suppl:201s–6s
Boron neutron capture therapy of brain tumors: past history, current status, and future potential. Barth RF, et al. **Cancer Invest** 1996;14(6):534–50 (144 ref.)
Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of either sodium borocaptate or boronophenylalanine with or without blood–brain barrier disruption. Barth RF, et al. **Cancer Res** 1997 Mar 15;57(6):1129–36
Ion microscopy imaging of 10B from p-boronophenylalanine in a brain tumor model for boron neutron capture therapy. Smith DR, et al. **Cancer Res** 1996 Oct 1;56(19):4302–6
Synthesis of a nickel tetracarboranylphenylporphyrin for boron neutron-capture therapy: biodistribution and toxicity in tumor-bearing mice. Miura M, et al. **Int J Cancer** 1996 Sep 27;68(1):114–9
Rad Res 96. The Association for Radiation Research biennial general meeting. Birmingham, United Kingdom, 1–3 April 1996. Abstracts. **Int J Radiat Biol** 1996 Dec;70(6):775–88
Comet assay study of DNA damage and repair of tumour cells following boron neutron capture irradiation with fast d(14) + Be neutrons. Pöller F, et al. **Int J Radiat Biol** 1996 Nov;70(5):593–602
Uptake and retention of nitroimidazole-carboranes designed for boron neutron capture therapy in experimental murine tumours: detection by 11B magnetic resonance spectroscopy. Wood PJ, et al. **Int J Radiat Biol** 1996 Nov; 70(5):587–92
Is there a future for neutron capture therapy? [editorial] [see comments] Bartelink H, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):267–8. Comment in: Int J Radiat Oncol Biol Phys 1997 Jul 1;38(4):908. Comment in: Int J Radiat Oncol Biol Phys 1997 Jul 15;38(5):1139–40.
Liposomal formulations containing sodium mercaptoundecahydrododecaborate (BSH) for boron neutron capture therapy. Mehta SC, et al. **J Microencapsul** 1996 May–Jun;13(3):269–79
Boron neutron capture therapy of brain tumors--current status and future prospects. Barth RF, et al. **J Neurooncol** 1997 May;33(1–2):3–7
Boron neutron capture enhanced fast neutron radiotherapy for malignant gliomas and other tumors. Buchholz TA, et al. **J Neurooncol** 1997 May;33(1–2):171–8 (22 ref.)
Boron neutron capture therapy for glioblastoma multiforme using p-boronophenylalanine and epithermal neutrons: trial design and early clinical results. Coderre JA, et al. **J Neurooncol** 1997 May;33(1–2):141–52
Strategic planning workshop on research needs for neutron capture therapy. Feinendegen LE. **J Neurooncol** 1997 May; 33(1–2):179–85
Pharmacokinetics and boron uptake of BSH (Na2B12H11SH) in patients with intracranial tumors. Kageji T, et al. **J Neurooncol** 1997 May;33(1–2):117–30
Boron neutron capture therapy. Clinical brain tumor studies. Nakagawa Y, et al. **J Neurooncol** 1997 May;33(1–2):105–15
Binding and distribution of Na2B12H11SH on cellular and subcellular level in tumor tissue of glioma patients in boron neutron capture therapy. Otersen B, et al. **J Neurooncol** 1997 May;33(1–2):131–9
Chemistry and biology of some low molecular weight boron compounds for boron neutron capture therapy. Sjöberg S, et al. **J Neurooncol** 1997 May;33(1–2):41–52 (75 ref.)
The rationale and requirements for the development of boron neutron capture therapy of brain tumors. Soloway AH, et al. **J Neurooncol** 1997 May;33(1–2):9–18 (43 ref.)
Early history of development of boron neutron capture therapy of tumors. Sweet WH. **J Neurooncol** 1997 May; 33(1–2):19–26 (42 ref.)
Enhanced survival of glioma bearing rats following boron neutron capture therapy with blood–brain barrier disruption and intracarotid injection of boronophenylalanine. Yang W, et al. **J Neurooncol** 1997 May;33(1–2):59–70
Microdosimetry for boron neutron capture therapy: a review. Zamenhof RG. **J Neurooncol** 1997 May;33(1–2):81–92 (37 ref.)
Cellular effect of thermal neutron capture treatment using 10B1-para-boronophenylalanine: lethal effect on melanoma cells with different degrees of X-ray sensitivity. Utsumi H, et al. **J Radiat Res (Tokyo)** 1996 Sep;37(3):193–8
The neutron sensitivity of dosimeters applied to boron neutron capture therapy. Raaijmakers CP, et al. **Med Phys** 1996 Sep;23(9):1581–9
Scope and limitations of boron neutron capture therapy as the selective tool against cancer. Wójtowicz H, et al. **Postepy Biochem** 1995;41(5 Suppl):321–6 (43 ref.)
Human melanoma treated by boron neutron capture therapy: comparison of the clinical response with the predicted response. Hiratsuka J, et al. **Radiat Med** 1996 Sep–Oct; 14(5):257–63
Accumulation of boron in malignant and normal cells incubated in vitro with boronophenylalanine, mercaptoborane or boric acid. Capala J, et al. **Radiat Res** 1996 Nov;146(5):554–60
Boron neutron capture irradiation of the rat spinal cord: effects of variable doses of borocaptate sodium. Morris GM, et al. **Radiother Oncol** 1996 Jun;39(3):253–9
In vitro determination of toxicity, binding, retention, subcellular distribution and biological efficacy of the boron neutron capture agent DAC-1. Tilly N, et al. **Radiother Oncol** 1996 Jan;38(1):41–50

INSTRUMENTATION

Shielding design of a treatment room for an accelerator-based epithermal neutron irradiation facility for BNCT. Evans JF, et al. **Health Phys** 1996 Nov;71(5):692–9
Clinical dosimetry of an epithermal neutron beam for neutron capture therapy: dose distributions under reference conditions. Raaijmakers CP, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):941–51
The requirements and development of neutron beams for neutron capture therapy of brain cancer. Moss RL, et al. **J Neurooncol** 1997 May;33(1–2):27–40 (41 ref.)
An improved neutron collimator for brain tumor irradiations in clinical boron neutron capture therapy. Liu HB, et al. **Med Phys** 1996 Dec;23(12):2051–60
Dose monitoring for boron neutron capture therapy using a reactor-based epithermal neutron beam. Raaijmakers CP, et al. **Phys Med Biol** 1996 Dec;41(12):2789–97

METHODS

Development and in vitro studies of epidermal growth factor–dextran conjugates for boron neutron capture therapy. Gedda L, et al. **Bioconjug Chem** 1996 Sep–Oct; 7(5):584–91
Bispecific antibody mediated targeting of nido-carboranes to human colon carcinoma cells. Primus FJ, et al. **Bioconjug Chem** 1996 Sep–Oct;7(5):532–5
Selective uptake of boronated low-density lipoprotein in melanoma xenografts achieved by diet supplementation. Setiawan Y, et al. **Br J Cancer** 1996 Dec;74(11):1705–8
Inhibition of human pancreatic cancer growth in nude mice by boron neutron capture therapy. Yanagië H, et al. **Br J Cancer** 1997;75(5):660–5
Modification of the response of a quiescent cell population within a murine solid tumour to boron neutron capture irradiation: studies with nicotinamide and hyperthermia. Masunaga S, et al. **Br J Radiol** 1997 Apr;70:391–8
A novel method for boronating antibodies without loss of immunoreactivity, for use in neutron capture therapy. Ferro VA, et al. **Drug Des Discov** 1995 Aug;13(1):13–25
Response of the central nervous system to fractionated boron neutron capture irradiation: studies with borocaptate sodium. Morris GM, et al. **Int J Radiat Biol** 1997 Feb; 71(2):185–92
Boron neutron capture therapy (BNCT) for high-grade gliomas of the brain: a cautionary note [see comments] Laramore GE, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):241–6. Comment in: Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):267–8.
Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of sodium borocaptate with or without blood–brain barrier disruption. Yang W, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):663–72
The role of boron MRI in boron neutron capture therapy. Kabalka GW, et al. **J Neurooncol** 1997 May;33(1–2):153–61
Computational dosimetry and treatment planning for boron neutron capture therapy. Nigg DW, et al. **J Neurooncol** 1997 May;33(1–2):93–104 (32 ref.)
Measurement of the 9Be(p,n) thick target spectrum for use in accelerator-based boron neutron capture therapy. Howard WB, et al. **Med Phys** 1996 Jul;23(7):1233–5
Study of boron neutron capture therapy used neutron source with protons bombarding a thick 9Be target. Yue G, et al. **Med Phys** 1997 Jun;24(6):851–5
Na2B12H11SH (BSH) in combination with systemic hyaluronidase: a promising concept for boron neutron capture therapy for glioblastoma. Haselsberger K, et al. **Neurosurgery** 1996 Aug;39(2):321–5; discussion 325–6
Dose monitoring for boron neutron capture therapy using a reactor-based epithermal neutron beam. Raaijmakers CP, et al. **Phys Med Biol** 1996 Dec;41(12):2789–97
New approaches to treating advanced melanoma: adjuvant treatment of high-risk primary melanoma and boron neutron capture therapy. Rogers GS, et al. **Semin Cutan Med Surg** 1997 Jun;16(2):165–73 (40 ref.)

BORONIC ACIDS

Soluble highly coloured phenylboronic acids and their use in glycohemoglobin quantification. Frantzen F, et al. **Clin Chim Acta** 1997 Jul 25;263(2):207–24
[Saccharide sensing using a boronic-acid probe] Takeuchi M, et al. **Tanpakushitsu Kakusan Koso** 1996 Dec; 41(16):2584–92 (19 ref.) **(Jpn)**

CHEMICAL SYNTHESIS

Peptide boronic acids. Versatile synthetic ligands for affinity chromatography of serine proteinases. Zembower DE, et al. **Int J Pept Protein Res** 1996 May;47(5):405–13

CHEMISTRY

Endothelial cell differentiation into capillary structures by copolymer surfaces with phenylboronic acid groups. Aoki T, et al. **J Biomater Sci Polym Ed** 1995;7(7):539–50
Synthesis and application of boronic acid-immobilized porous polymer particles: a novel packing for high-performance liquid affinity chromatography. Koyama T, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26; 679(1–2):31–40
Studies on oriented and reversible immobilization of glycoprotein using novel boronate affinity gel. Liu XC, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):462–7
Glucose-responsive gel from phenylborate polymer and poly(vinyl alcohol): prompt response at physiological pH through the interaction of borate with amino group in the gel. Hisamitsu I, et al. **Pharm Res** 1997 Mar;14(3):289–93

METABOLISM

Cysteine proteases such as papain are not inhibited by substrate analogue peptidyl boronic acids. Martichonok V, et al. **Bioorg Med Chem** 1997 Apr;5(4):679–84

PHARMACOLOGY

Effect of deoxycoformycin and Val-boroPro on the associated catalytic activities of lymphocyte CD26 and ecto-adenosine deaminase. Jeanfavre DD, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1757–65
Inhibition of hepatic lipase by m-aminophenylboronate. Application of phenylboronate affinity chromatography for purification of human postheparin plasma lipases. Uusi-Oukari M, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):233–42
Inhibition of dipeptidyl peptidase IV (CD26) by peptide boronic acid dipeptides. Pargellis CA, et al. **J Enzyme Inhib** 1997 Jan;11(3):151–69

BORRELIA

Tick factors and in vitro cultivation influence the protein profile, antigenicity and pathogenicity of a cloned Borrelia garinii isolate from Ixodes ricinus hemolymph. Hu CM, et al. **Infection** 1996 May–Jun;24(3):251–7

BORRELIA

Survey of tick related problems in roe deer (Capreolus capreolus) in The Netherlands. Dorrestein GM, et al. **Vet Q** 1996;18 Suppl 3:S148 (5 ref.)

Do roe deer (Capreolus capreolus) spread Borrelia-infected Ixodes ricinus ticks? Rijpkema SG. **Vet Q** 1996;18 Suppl 3:S146-7 (14 ref.)

CHEMISTRY

Immunologic and genetic analyses of VmpA of a neurotropic strain of Borrelia turicatae. Cadavid D, et al. **Infect Immun** 1997 Aug;65(8):3352-60

CLASSIFICATION

Phylogenesis of relapsing fever Borrelia spp. Ras NM, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):859-65

A mouse model of Borrelia meningitis after intradermal injection. Garcia-Monco JC, et al. **J Infect Dis** 1997 May; 175(5):1243-5

Borrelia tanukii sp. nov. and Borrelia turdae sp. nov. found from ixodid ticks in Japan: rapid species identification by 16S rRNA gene-targeted PCR analysis. Fukunaga M, et al. **Microbiol Immunol** 1996;40(11):877-81

DRUG EFFECTS

In vitro susceptibility of thirty Borrelia strains from various sources against eight antimicrobial chemotherapeutics. Baradaran-Dilmaghani R, et al. **Infection** 1996 Jan-Feb; 24(1):60-3

ENZYMOLOGY

Sequence analysis and characterization of a 40-kilodalton Borrelia hermsii glycerophosphodiester phosphodiesterase homolog. Shang ES, et al. **J Bacteriol** 1997 Apr; 179(7):2238-46

GENETICS

Borrelia burgdorferi DNA and Borrelia hermsii DNA are not associated with morphea or lichen sclerosus et atrophicus in the southwestern United States [letter] Colomé-Grimmer MI, et al. **Arch Dermatol** 1997 Sep; 133(9):1174

Physical mapping of the Borrelia miyamotoi HT31 chromosome in comparison with that of Borrelia turicatae, an etiological agent of tick-borne relapsing fever. Takahashi Y, et al. **Clin Diagn Lab Immunol** 1996 Sep; 3(5):533-40

Simultaneous infection of Ixodes ricinus nymphs by two Borrelia burgdorferi sensu lato species: possible implications for clinical manifestations. Pichon B, et al. **Emerg Infect Dis** 1995 Jul-Sep;1(3):89-90

Homogeneity of Borrelia japonica and heterogeneity of Borrelia afzelii and 'Borrelia tanukii' isolated in Japan, determined from ospC gene sequences. Masuzawa T, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):287-93

Characterization of Borrelia garinii isolated from Lyme disease patients in Hokkaido, Japan, by sequence analysis of OspA and OspB genes. Wang J, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):371-5

Molecular cloning and characterization of nlpH, encoding a novel, surface-exposed, polymorphic, plasmid-encoded 33-kilodalton lipoprotein of Borrelia afzelii. Theisen M. **J Bacteriol** 1996 Nov;178(22):6435-42

Diversity of OspA and OspC among cerebrospinal fluid isolates of Borrelia burgdorferi sensu lato from patients with neuroborreliosis in Germany. Wilske B, et al. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):195-201

Reservoir competence of the vole, Clethrionomys rufocanus bedfordiae, for Borrelia garinii or Borrelia afzelii. Ishiguro F, et al. **Microbiol Immunol** 1996;40(1):67-9

Consensus sequence on the genes encoding the major outer surface proteins (OspA and OspB) of Borrelia garinii isolate. Wang J, et al. **Microbiol Immunol** 1997;41(2):83-91

[Genetically strange Borrelia and conservation of genes associated with motility in Lyme disease Borrelia] Yanagihara Y, et al. **Nippon Saikingaku Zasshi** 1996 Oct; 51(4):1015-24 (14 ref.) **(Jpn)**

IMMUNOLOGY

Serum antibodies against Borrelia afzelii, Borrelia burgdorferi sensu stricto and the 41-kiloDalton flagellin in patients from a Lyme borreliosis endemic area: analysis by EIA and immunoblot. Nilsson I, et al. **APMIS** 1996 Dec; 104(12):907-14

Prevalence of IgG reactivity in Lyme borreliosis patients versus Borrelia garinii and Borrelia afzelii in a restricted area of Northern Italy. Cinco M, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3-4):217-22

IgM and IgG significant reactivity to Borrelia burgdorferi sensu stricto, Borrelia garinii and Borrelia afzelii among Italian patients affected by Lyme arthritis or neuroborreliosis. Cinco M, et al. **FEMS Immunol Med Microbiol** 1996 Jun;14(2-3):159-66

Detection of antibodies to Borrelia species among patients with confirmed sarcoidosis in a region where Lyme disease is nonendemic. Ishihara M, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Dec;234(12):770-3

Surface exposure and species specificity of an immunoreactive domain of a 66-kilodalton outer membrane protein (P66) of the Borrelia spp. that cause Lyme disease. Bunikis J, et al. **Infect Immun** 1996 Dec;64(12):5111-6

Immunological and molecular variability of OspA and OspC. Implications for Borrelia vaccine development. Wilske B, et al. **Infection** 1996 Mar-Apr;24(2):208-12 (32 ref.)

Serodiagnosis of Lyme borreliosis by Borrelia burgdorferi sensu stricto, B. garinii, and B. afzelii western blots (immunoblots). Norman GL, et al. **J Clin Microbiol** 1996 Jul;34(7):1732-8

GlpQ: an antigen for serological discrimination between relapsing fever and Lyme borreliosis. Schwan TG, et al. **J Clin Microbiol** 1996 Oct;34(10):2483-92

Presence of common antigenic epitope in outer surface protein (Osp) A and OspB of Japanese isolates identified as Borrelia garinii. Masuzawa T, et al. **Microbiol Immunol** 1996;40(6):455-8

[Diagnosis of Lyme borreliosis with western blotting] Hulínská D. **Epidemiol Mikrobiol Imunol** 1997 Mar; 46(1):3-8 (Eng. Abstr.) **(Cze)**

[A case of neuroborreliosis with unilateral radiculoneuropathy and elevated serum antibodies for Borrelia garinii and Borrelia afzelii] Miyazaki K, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1155-60 (29 ref.) (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Prevalence of Lyme disease spirochetes in Ixodes persulcatus and wild rodents in far eastern Russia. Sato Y, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3887-9

Arthritis severity and spirochete burden are determined by serotype in the Borrelia turicatae-mouse model of Lyme disease. Pennington PM, et al. **Infect Immun** 1997 Jan; 65(1):285-92

Location and ultrastructure of Borrelia japonica in naturally infected Ixodes ovatus and small mammals. Yano Y, et al. **Microbiol Immunol** 1997;41(1):13-9

Images in clinical medicine. Relapsing fever. Newton JA, et al. **N Engl J Med** 1996 Oct 17;335(16):1197

[Localization of Borrelia in the Ixodes persulcatus (Ixodidae) tick] Balashov IuS, et al. **Dokl Akad Nauk** 1997 Jan; 352(1):130-2 **(Rus)**

[Spontaneous tick infection with Borrelia and the degree of their individual infectiousness in different landscape subzones of Tyumen Province] Kolchanova LP. **Med Parazitol (Mosk)** 1997 Jan-Mar;(1):49-50 **(Rus)**

[The isolation of Borrelia from the tick Ixodes trianguliceps (Ixodidae) and the possible significance of this species in the epizootiology of ixodid tick-borne borrelioses] Gorelova NB, et al. **Parazitologiia** 1996 Jan-Feb;30(1):13-8 (Eng. Abstr.) **(Rus)**

[Shrews as a Borrelia reservoir in northwestern Russia] Grigor'eva LA. **Parazitologiia** 1996 Sep-Oct;30(5):458-60 (Eng. Abstr.) **(Rus)**

[Tick-borne recurrent fever. Description of 5 cases] Sánchez-Yebra W, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):77-81 (Eng. Abstr.) **(Spa)**

PATHOGENICITY

Physical mapping of the Borrelia miyamotoi HT31 chromosome in comparison with that of Borrelia turicatae, an etiological agent of tick-borne relapsing fever. Takahashi Y, et al. **Clin Diagn Lab Immunol** 1996 Sep; 3(5):533-40

Cytokines in the serum and brain in mice infected with distinct species of Lyme disease Borrelia. Isogai E, et al. **Microb Pathog** 1996 Dec;21(6):413-9

PHYSIOLOGY

Ticks and Borrelia: model systems for investigating pathogen-arthropod interactions. Schwan TG. **Infect Agents Dis** 1996 Jun;5(3):167-81 (120 ref.)

Transmission of the Lyme disease spirochete, Borrelia garinii, between infected and uninfected immature Ixodes persulcatus during cofeeding on mice. Sato Y, et al. **J Parasitol** 1997 Jun;83(3):547-50

ULTRASTRUCTURE

The bacterial nucleoid visualized by fluorescence microscopy of cells lysed within agarose: comparison of Escherichia coli and spirochetes of the genus Borrelia. Hinnebusch BJ, et al. **J Bacteriol** 1997 Apr;179(7):2228-37

BORRELIA BURGDORFERI

see related

LYME DISEASE

Analysis of the lipidated recombinant outer surface protein A from Borrelia burgdorferi by mass spectrometry. Bouchon B, et al. **Anal Biochem** 1997 Mar 1;246(1):52-61

Concentrations of doxycycline and penicillin G in sera and cerebrospinal fluid of patients treated for neuroborreliosis. Karlsson M, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1104-7

Lyme disease. Shift the paradigm! Ellenbogen C. **Arch Fam Med** 1997 Mar-Apr;6(2):191-5 (35 ref.)

Lyme borreliosis: an update. Cutler SJ. **Br J Hosp Med** 1996 Dec 11-1997 Jan 14;56(11):581-4 (13 ref.)

Relapsing neuroborreliosis [letter; comment] Ferris i Tortajada J, et al. **Eur Neurol** 1996;36(6):394-5. Comment on: Eur Neurol 1995;35(2):113-7.

Ticks and Borrelia: model systems for investigating pathogen-arthropod interactions. Schwan TG. **Infect Agents Dis** 1996 Jun;5(3):167-81 (120 ref.)

Production of interleukin-8 (IL-8) by cultured endothelial cells in response to Borrelia burgdorferi occurs independently of secreted [corrected] IL-1 and tumor necrosis factor alpha and is required for subsequent transendothelial migration of neutrophils [published erratum appears in Infect Immun 1997 Jun;65(6):2508] Burns MJ, et al. **Infect Immun** 1997 Apr;65(4):1217-22

Borrelia burgdorferi migrates into joint capsules and causes an up-regulation of interleukin-8 in synovial membranes of dogs experimentally infected with ticks. Straubinger RK, et al. **Infect Immun** 1997 Apr;65(4):1273-85

Accelerated infectivity of tick-transmitted Lyme disease spirochetes to vector ticks. Shih CM, et al. **J Clin Microbiol** 1996 Sep;34(9):2297-9

Treatment and prevention of Lyme disease, with emphasis on antimicrobial therapy for neuroborreliosis and vaccination. Wormser GP. **Semin Neurol** 1997 Mar; 17(1):45-52 (91 ref.)

Morphologic, immunohistochemical, and ultrastructural characterization of a distinctive renal lesion in dogs putatively associated with Borrelia burgdorferi infection: 49 cases (1987-1992). Dambach DM, et al. **Vet Pathol** 1997 Mar;34(2):85-96

[Lyme borreliosis] Weber K, et al. **Hautarzt** 1996 Sep; 47(9):724-32; quiz 733 **(Ger)**

[Present status of Lyme borreliosis and characterization of Lyme disease Borrelia isolated in Japan] Masuzawa T. **Yakugaku Zasshi** 1997 Jun;117(6):319-38 (59 ref.) (Eng. Abstr.) **(Jpn)**

[Induction of interleukin-6 by Borrelia burgdorferi in different cell cultures] Ponte C, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):73-6 (Eng. Abstr.) **(Spa)**

CHEMISTRY

The Oms66 (p66) protein is a Borrelia burgdorferi porin. Skare JT, et al. **Infect Immun** 1997 Sep;65(9):3654-61

The outer surface protein A (OspA) of Borrelia burgdorferi: a vaccine candidate and bioactive mediator. Kramer MD, et al. **Infection** 1996 Mar-Apr;24(2):190-4 (35 ref.)

Chemiluminescent analysis of Borrelia burgdorferi penicillin-binding proteins using ampicillin conjugated to digoxigenin. Norgard MV, et al. **Microb Pathog** 1995 Oct; 19(4):257-72

Evidence for in vivo but not in vitro expression of a Borrelia burgdorferi outer surface protein F (OspF) homologue. Akins DR, et al. **Mol Microbiol** 1995 Nov;18(3):507-20

Crystal structure of Lyme disease antigen outer surface protein A complexed with an Fab. Li H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3584-9

CLASSIFICATION

Molecular characterization of Borrelia burgdorferi sensu lato from Slovenia revealing significant differences between tick and human isolates. Picken RN, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):313-23

Identification of four genomic groups of Borrelia burgdorferi sensu lato in Ixodes ricinus ticks collected in a Lyme borreliosis endemic region of northern Croatia. Rijpkema S, et al. **Exp Appl Acarol** 1996 Jan;20(1):23-30

Phylogenetic analysis of Borrelia species based on flagellin gene sequences and its application for molecular typing of Lyme disease borreliae. Fukunaga M, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):898-905

Patient isolates of Borrelia burgdorferi sensu lato with genotypic and phenotypic similarities of strain 25015. Picken RN, et al. **J Infect Dis** 1996 Nov;174(5):1112-5

Characterization of Borrelia burgdorferi sensu lato strains isolated from Ixodes ricinus in Mecklenburg-Vorpommern, Germany. Lottmann H, et al. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):181-4

Comparison of OspA serotypes for Borrelia burgdorferi sensu lato from Japan, Europe and North America. Masuzawa T, et al. **Microbiol Immunol** 1996;40(8):539-45

Borrelia burgdorferi sensu lato strains isolated from cutaneous Lyme borreliosis biopsies differentiated by pulsed-field gel electrophoresis. Busch U, et al. **Scand J Infect Dis** 1996;28(6):583-9

CYTOLOGY

Heterogeneity of Borrelia burgdorferi in the skin. Aberer E, et al. **Am J Dermatopathol** 1996 Dec;18(6):571-9

Limited surface exposure of Borrelia burgdorferi outer surface lipoproteins. Cox DL, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7973-8

DRUG EFFECTS

Eucaryotic cells protect Borrelia burgdorferi from the action of penicillin and ceftriaxone but not from the action of doxycycline and erythromycin. Brouqui P, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1552-4

In vitro susceptibility testing of Borrelia burgdorferi by a dialysis culture method [letter; comment] Dever LL, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1208-9. Comment on: Antimicrob Agents Chemother 1996 Dec;40(12):2882-3.

Dialysis culture enables more accurate determination of MIC of benzylpenicillin for Borrelia burgdorferi than does

conventional procedure [see comments] Stiernstedt SH, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2882-3 . Comment in: Antimicrob Agents Chemother 1997 May;41(5):1208-9.

Reversal of Borrelia burgdorferi associated dilated cardiomyopathy by antibiotic treatment? Gasser R, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):351-60

The antimicrobial agent melittin exhibits powerful in vitro inhibitory effects on the Lyme disease spirochete. Lubke LL, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S48-51

In vitro activity of trimethoprim against Borrelia burgdorferi. Reisinger EC, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):458-60

In vitro susceptibility of thirty Borrelia strains from various sources against eight antimicrobial chemotherapeutics. Baradaran-Dilmaghani R, et al. **Infection** 1996 Jan-Feb; 24(1):60-3

Kill kinetics of Borrelia burgdorferi and bacterial findings in relation to the treatment of Lyme borreliosis [published erratum appears in Infection 1996 Mar-Apr;24(2):169] Preac Mursic V, et al. **Infection** 1996 Jan-Feb;24(1):9-16

Therapy and prophylaxis in Lyme borreliosis. Stanek G, et al. **Infection** 1996 Jan-Feb;24(1):59

Prednisolone reduces experimental arthritis, and inflammatory tissue destruction in SCID mice infected with Borrelia burgdorferi. Hurtenbach U, et al. **Int J Immunopharmacol** 1996 May;18(5):281-8

Antibiotics and increased temperature against Borrelia burgdorferi in vitro. Reisinger E, et al. **Scand J Infect Dis** 1996;28(2):155-7

ENZYMOLOGY

Borrelia burgdorferi uridine kinase: an enzyme of the pyrimidine salvage pathway for endogenous use of nucleotides. Boursaux-Eude C, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):257-61

Molecular cloning and characterization of Borrelia burgdorferi rpoB. Alekshun M, et al. **Gene** 1997 Feb 28; 186(2):227-35

Cloning and expression of the Borrelia burgdorferi lon gene. Cloud JL, et al. **Gene** 1997 Jul 18;194(1):137-41

Glycolytic enzyme operon of Borrelia burgdorferi: characterization and evolutionary implications. Gebbia JA, et al. **Gene** 1997 Apr 1;188(2):221-8

Expression, purification, and characterization of inosine 5'-monophosphate dehydrogenase from Borrelia burgdorferi. Zhou X, et al. **J Biol Chem** 1997 Aug 29; 272(35):21977-81

GENETICS

Borrelia burgdorferi DNA and Borrelia hermsii DNA are not associated with morphea or lichen sclerosus et atrophicus in the southwestern United States [letter] Colomé-Grimmer MI, et al. **Arch Dermatol** 1997 Sep; 133(9):1174

Detection of Borrelia burgdorferi DNA (B garinii or B afzelii) in morphea and lichen sclerosus et atrophicus tissues of German and Japanese but not of US patients. Fujiwara H, et al. **Arch Dermatol** 1997 Jan;133(1):41-4

Colorimetric solid-phase capture hybridization assay for detection of amplified Borrelia burgdorferi DNA. Mansy F, et al. **Biotechniques** 1996 Jul;21(1):122-5

Antigenic variation in Lyme disease borreliae by promiscuous recombination of VMP-like sequence cassettes. Zhang JR, et al. **Cell** 1997 Apr 18;89(2):275-85

PCR-restriction fragment length polymorphism analysis of the ospC gene for detection of mixed culture and for epidemiological typing of Borrelia burgdorferi sensu stricto. Masuzawa T, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):60-3

Simultaneous infection of Ixodes ricinus nymphs by two Borrelia burgdorferi sensu lato species: possible implications for clinical manifestations. Pichon B, et al. **Emerg Infect Dis** 1995 Jul-Sep;1(3):89-90

Identification and mapping of a chromosomal gene cluster of Borrelia burgdorferi containing genes expressed in vivo. Aron L, et al. **FEMS Microbiol Lett** 1996 Dec 15; 145(3):309-14

Molecular characterization of a flagellar/chemotaxis operon in the spirochete Borrelia burgdorferi. Ge Y, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):425-31

Cloning and sequencing of a species-specific nucleotide fragment of Borrelia burgdorferi sensu stricto, which is repeated in several plasmids of the species. Misonne MC, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):157-64

Sequence diversity of a gene encoding a putative primary sigma factor among Borrelia burgdorferi sensu lato strains. Pan MJ, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):153-8

A nested polymerase chain reaction for the detection of Borrelia burgdorferi sensu lato based on a multiple sequence analysis of the hbb gene. Valsangiacomo C, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):25-9

Molecular cloning and characterization of Borrelia burgdorferi rpoB. Alekshun M, et al. **Gene** 1997 Feb 28; 186(2):227-35

Cloning and expression of the Borrelia burgdorferi lon gene. Cloud JL, et al. **Gene** 1997 Jul 18;194(1):137-41

Identification of a large motility operon in Borrelia burgdorferi by semi-random PCR chromosome walking. Ge Y, et al. **Gene** 1997 Apr 21;189(2):195-201

Cell-density-dependent expression of Borrelia burgdorferi lipoproteins in vitro. Indest KJ, et al. **Infect Immun** 1997 Apr;65(4):1165-71

Molecular characterization of a 6.6-kilodalton Borrelia burgdorferi outer membrane-associated lipoprotein (lp6.6) which appears to be downregulated during mammalian infection. Lahdenne P, et al. **Infect Immun** 1997 Feb; 65(2):412-21

Borrelia burgdorferi DNA in the urine of treated patients with chronic Lyme disease symptoms. A PCR study of 97 cases. Bayer ME, et al. **Infection** 1996 Sep-Oct; 24(5):347-53

Phylogenetic analysis of Borrelia burgdorferi sensu stricto by arbitrarily primed PCR and pulsed-field gel electrophoresis. Foretz M, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):11-8

A phylogenetic analysis of Borrelia burgdorferi sensu lato isolates associated with Lyme disease in Japan by flagellin gene sequence determination. Fukunaga M, et al. **Int J Syst Bacteriol** 1996 Apr;46(2):416-21

A phylogenetic analysis of Borrelia burgdorferi sensu lato based on sequence information from the hbb gene, coding for a histone-like protein. Valsangiacomo C, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):1-10

The nucleotide sequence of a linear plasmid of Borrelia burgdorferi reveals similarities to those of circular plasmids of other prokaryotes. Barbour AG, et al. **J Bacteriol** 1996 Nov;178(22):6635-9

Homology throughout the multiple 32-kilobase circular plasmids present in Lyme disease spirochetes. Casjens S, et al. **J Bacteriol** 1997 Jan;179(1):217-27

An unexpected flaA homolog is present and expressed in Borrelia burgdorferi. Ge Y, et al. **J Bacteriol** 1997 Jan; 179(2):552-6

Molecular characterization of a large Borrelia burgdorferi motility operon which is initiated by a consensus sigma70 promoter. Ge Y, et al. **J Bacteriol** 1997 Apr;179(7):2289-99

Molecular and evolutionary analyses of a variable series of genes in Borrelia burgdorferi that are related to ospE and ospF, constitute a gene family, and share a common upstream homology box. Marconi RT, et al. **J Bacteriol** 1996 Oct;178(19):5615-26

Directed insertion of a selectable marker into a circular plasmid of Borrelia burgdorferi. Rosa P, et al. **J Bacteriol** 1996 Oct;178(20):5946-53

Characterization of cp18, a naturally truncated member of the cp32 family of Borrelia burgdorferi plasmids. Stevenson B, et al. **J Bacteriol** 1997 Jul;179(13):4285-91

Temporal pattern of Borrelia burgdorferi p21 expression in ticks and the mammalian host. Das S, et al. **J Clin Invest** 1997 Mar 1;99(5):987-95

Arthropod- and host-specific gene expression by Borrelia burgdorferi. de Silva AM, et al. **J Clin Invest** 1997 Feb 1;99(3):377-9 (11 ref.)

An optimized PCR leads to rapid and highly sensitive detection of Borrelia burgdorferi in patients with Lyme borreliosis. Priem S, et al. **J Clin Microbiol** 1997 Mar; 35(3):685-90

Detection of Borrelia burgdorferi-specific DNA in urine specimens from patients with erythema migrans before and after antibiotic therapy. Schmidt B, et al. **J Clin Microbiol** 1996 Jun;34(6):1359-63

Genetic heterogeneity of Borrelia burgdorferi in the United States. Mathiesen DA, et al. **J Infect Dis** 1997 Jan; 175(1):98-107

Immunization with outer surface protein (Osp) A, but not OspC, provides cross-protection of mice challenged with North American isolates of Borrelia burgdorferi. Probert WS, et al. **J Infect Dis** 1997 Feb;175(2):400-5

Molecular subtyping of Borrelia burgdorferi sensu lato isolates from five patients with solitary lymphocytoma. Picken RN, et al. **J Invest Dermatol** 1997 Jan;108(1):92-7

Unusual strain of Borrelia burgdorferi isolated from Ixodes dentatus in central Georgia. Oliver JH Jr, et al. **J Parasitol** 1996 Dec;82(6):936-40

Nested polymerase chain reaction strategy simultaneously targeting DNA sequences of multiple bacterial species in inflammatory joint diseases. I. Screening of synovial fluid samples of patients with spondyloarthropathies and other arthritides. Braun J, et al. **J Rheumatol** 1997 Jun; 24(6):1092-100

Globalisation of Lyme borreliosis. Barthold SW. **Lancet** 1996 Dec 14;348(9042):1603

Canary finches (Serinus canaria) as an avian infection model for Lyme borreliosis. Olsen B, et al. **Microb Pathog** 1996 Jun;20(6):319-24

Genetic analysis of Borrelia burgdorferi sensu lato in Korea using genomic hybridization and 16S rRNA gene sequence determination. Kee SH, et al. **Microbiol Immunol** 1996; 40(9):599-605

The flgK motility operon of Borrelia burgdorferi is initiated by a sigma 70-like promoter. Ge Y, et al. **Microbiology** 1997 May;143 (Pt 5):1681-90

Oligonucleotide-mediated genetic transformation of Borrelia burgdorferi. Samuels DS, et al. **Microbiology** 1997 Feb;143 (Pt 2):519-22

Isolation of Borrelia burgdorferi genes encoding homologues of DNA-binding protein HU and ribosomal protein S20. Tilly K, et al. **Microbiology** 1996 Sep;142 (Pt 9):2471-9

Proteins binding to the promoter region of the operon encoding the major outer surface proteins OspA and OspB of Borrelia burgdorferi. Margolis N, et al. **Mol Biol Rep** 1995;21(3):159-64

Cloning and analysis of a Borrelia burgdorferi membrane-interactive protein exhibiting haemolytic activity. Guina T, et al. **Mol Microbiol** 1997 Jun; 24(6):1201-13

Detection of Borrelia burgdorferi DNA and complement membrane attack complex deposits in the sural nerve of a patient with chronic polyneuropathy and tertiary Lyme disease. Maimone D, et al. **Muscle Nerve** 1997 Aug; 20(8):969-75

Automatic synthesis of multifork-like structures for multiple labeling of oligonucleotides: application to diagnosis of Lyme disease. Bollen A, et al. **Nucleic Acids Symp Ser** 1995; (34):235-6

Genetic diversity of Borrelia of Lyme borreliosis. Postic D, et al. **Wien Klin Wochenschr** 1996 Dec 13;108(23):748-51 (33 ref.)

[Acute gonarthritis--application of current diagnostic study methods exemplified by a case report] Gerber T, et al. **Ther Umsch** 1996 Oct;53(10):724-6 (Eng. Abstr.) **(Ger)**

[The clinical manifestations of Lyme borreliosis in the Middle Urals and their association with Borrelia burgdorferi genospecies] Lesnik OM, et al. **Ter Arkh** 1997;69(5):9-12 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Primary culture of Borrelia burgdorferi from Ixodes ricinus ticks. Wittenbrink MM, et al. **Zentralbl Bakteriol** 1996 Sep; 285(1):20-8

IMMUNOLOGY

Antibody responses of rats and humans to flagella-less cells and OspA protein of Borrelia burgdorferi. Sadziene A, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:140-50

Sensitivity and specificity of the borreliacidal-antibody test during early Lyme disease: a "gold standard"? Callister SM, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):399-402

Detection of anti-Borrelia burgdorferi antibody responses with the borreliacidal antibody test, indirect fluorescent-antibody assay performed by flow cytometry, and western immunoblotting. Creson JR, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):184-90

Correlation of seroreactivity with response to antibiotics in pediatric Lyme borreliosis. Fawcett PT, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):85-8

Protective and arthritis-resolving activity in sera of mice infected with Borrelia burgdorferi. Barthold SW, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S9-17

Activity of sera from patients with Lyme disease against Borrelia burgdorferi. Pavia CS, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S25-30

Serological evidence of Lyme borreliosis in Africa: results from studies in Dar es Salaam, Tanzania. Mhalu FS, et al. **East Afr Med J** 1996 Sep;73(9):583-5

Seroprevalence of Lyme borreliosis in forestry workers from Brandenburg, Germany. Rath PM, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):372-7

Endemic level of Lyme borreliosis in a region of central France: a sero-epidemiologic examination involving blood donors [letter] Christiann F, et al. **Eur J Epidemiol** 1997 Apr;13(3):361-2

Use of enzyme-labelled protein G assay for the detection of anti Borrelia burgdorferi antibodies in wild animal sera. Deruaz D, et al. **Eur J Epidemiol** 1996 Oct;12(5):515-9

The outer surface lipoprotein OspA of Borrelia burgdorferi provides co-stimulatory signals to normal human peripheral CD4+ and CD8+ T lymphocytes. Knigge H, et al. **Eur J Immunol** 1996 Oct;26(10):2299-303

Protective immunization with plasmid DNA containing the outer surface lipoprotein A gene of Borrelia burgdorferi is independent of an eukaryotic promoter. Simon MM, et al. **Eur J Immunol** 1996 Dec;26(12):2831-40

Plasmid DNA and protein vaccination of mice to the outer surface protein A of Borrelia burgdorferi leads to induction of T helper cells with specificity for a major epitope and augmentation of protective IgG antibodies in vivo. Zhong W, et al. **Eur J Immunol** 1996 Nov;26(11):2749-57

Anti-Borrelia burgdorferi immunoglobulin seroprevalence in pulmonary sarcoidosis: a negative report. Martens H, et al. **Eur Respir J** 1997 Jun;10(6):1356-8

Ultrastructural demonstration of spirochetal antigens in synovial fluid and synovial membrane in chronic Lyme disease: possible factors contributing to persistence of organisms. Nanagara R, et al. **Hum Pathol** 1996 Oct; 27(10):1025-34

Borrelia burgdorferi P35 and P37 proteins, expressed in vivo, elicit protective immunity. Fikrig E, et al. **Immunity** 1997 May;6(5):531-9

Bone marrow-derived macrophage lines and immortalized cloned macrophage and dendritic cells support priming of Borrelia burgdorferi--specific T cell responses in vitro and/or in vivo. Altenschmidt U, et al. **Immunol Lett** 1996 Apr;50(1-2):41-9

OspA antibodies inhibit the acquisition of Borrelia burgdorferi by Ixodes ticks. de Silva AM, et al. **Infect Immun** 1997 Aug;65(8):3146-50

Characterization of the physiological requirements for the bactericidal effects of a monoclonal antibody to OspB of Borrelia burgdorferi by confocal microscopy. Escudero R, et al. **Infect Immun** 1997 May;65(5):1908-15

Reactivity with a specific epitope of outer surface protein

A predicts protection from infection with the Lyme disease spirochete, Borrelia burgdorferi. Golde WT, et al. **Infect Immun** 1997 Mar;65(3):882–9

Borrelia burgdorferi–pulsed dendritic cells induce a protective immune response against tick–transmitted spirochetes. Mbow ML, et al. **Infect Immun** 1997 Aug; 65(8):3386–90

A monoclonal antibody to Borrelia burgdorferi flagellin modifies neuroblastoma cell neuritogenesis in vitro: a possible role for autoimmunity in the neuropathy of Lyme disease. Sigal LH, et al. **Infect Immun** 1997 May; 65(5):1722–8

Complement–mediated serum sensitivity among spirochetes that cause Lyme disease. van Dam AP, et al. **Infect Immun** 1997 Apr;65(4):1228–36

Reinfection in Lyme borreliosis. Eiffert H, et al. **Infection** 1996 Nov–Dec;24(6):437–9

Neurologic manifestation and classification of borreliosis. Haass A, et al. **Infection** 1996 Nov–Dec;24(6):467–9 (12 ref.)

Lyme borreliosis—problems of serological diagnosis. Hofmann H. **Infection** 1996 Nov–Dec;24(6):470–2 (8 ref.)

The outer surface protein A (OspA) of Borrelia burgdorferi: a vaccine candidate and bioactive mediator. Kramer MD, et al. **Infection** 1996 Mar–Apr;24(2):190–4 (35 ref.)

Experimental immunization against Lyme borreliosis with recombinant Osp proteins: an overview. Sadziene A, et al. **Infection** 1996 Mar–Apr;24(2):195–202 (89 ref.)

Lyme borreliosis--an overdiagnosed disease? Svenungsson B, et al. **Infection** 1997 May–Jun;25(3):140–3

The recombinant outer surface protein A (lipOspA) of Borrelia burgdorferi: a Lyme disease vaccine. Wallich R, et al. **Infection** 1996 Sep–Oct;24(5):396–7 (12 ref.)

Lyme disease vaccine. Wormser GP. **Infection** 1996 Mar–Apr;24(2):203–7 (54 ref.)

Acquired resistance to Borrelia burgdorferi infection in the rabbit. Comparison between outer surface protein A vaccine– and infection–derived immunity. Foley DM, et al. **J Clin Invest** 1997 Apr 15;99(8):2030–5

Interpretation criteria for standardized Western blots for three European species of Borrelia burgdorferi sensu lato. Hauser U, et al. **J Clin Microbiol** 1997 Jun;35(6):1433–44

Recommendation to include OspA and OspB in the new immunoblotting criteria for serodiagnosis of Lyme disease. Hilton E, et al. **J Clin Microbiol** 1996 Jun;34(6):1353–4

Temporal study of immunoglobin M seroreactivity to Borrelia burgdorferi in patients treated for Lyme borreliosis. Hilton E, et al. **J Clin Microbiol** 1997 Mar; 35(3):774–6

Serodiagnosis of Lyme borreliosis by Borrelia burgdorferi sensu stricto, B. garinii, and B. afzelii western blots (immunoblots). Norman GL, et al. **J Clin Microbiol** 1996 Jul;34(7):1732–8

Apoptosis of Fashigh CD4+ synovial T cells by borrelia–reactive Fas–ligand(high) gamma delta T cells in Lyme arthritis. Vincent MS, et al. **J Exp Med** 1996 Dec 1;184(6):2109–17

Detection of Borrelia burgdorferi–specific CD8+ cytotoxic T cells in patients with Lyme arthritis. Busch DH, et al. **J Immunol** 1996 Oct 15;157(8):3534–41

Borrelia burgdorferi activates nuclear factor–kappa B and is a potent inducer of chemokine and adhesion molecule gene expression in endothelial cells and fibroblasts. Ebnet K, et al. **J Immunol** 1997 Apr 1;158(7):3285–92

Human dendritic cells phagocytose and process Borrelia burgdorferi. Filgueira L, et al. **J Immunol** 1996 Oct 1; 157(7):2998–3005

Borrelia burgdorferi outer surface protein A (OspA) activates and primes human neutrophils. Morrison TB, et al. **J Immunol** 1997 May 15;158(10):4838–45

Cross–reactivity to Borrelia burgdorferi proteins in serum samples from residents of a tropical country nonendemic for Lyme disease. Burkot TR, et al. **J Infect Dis** 1997 Feb; 175(2):466–9

An OspA–based DNA vaccine protects mice against infection with Borrelia burgdorferi. Luke CJ, et al. **J Infect Dis** 1997 Jan;175(1):91–7

Characterization of the protective borreliacidal antibody response in humans and hamsters after vaccination with a Borrelia burgdorferi outer surface protein A vaccine. Padilla ML, et al. **J Infect Dis** 1996 Oct;174(4):739–46

Immunization with outer surface protein (Osp) A, but not OspC, provides cross–protection of mice challenged with North American isolates of Borrelia burgdorferi. Probert WS, et al. **J Infect Dis** 1997 Feb;175(2):400–5

The absence of antibodies against Borrelia burgdorferi in the sera of Japanese patients with localized scleroderma [letter] Akimoto S, et al. **J Rheumatol** 1996 Mar;23(3):573–4

From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Sep 10;278(10):805

Clinical comparison of borreliacidal–antibody test with indirect immunofluorescence and enzyme–linked immunosorbent assays for diagnosis of Lyme disease. Agger WA, et al. **Mayo Clin Proc** 1997 Jun;72(6):510–4

Heterogeneity in the complement–dependent bacteriolysis within the species of Borrelia burgdorferi. Breitner–Ruddock S, et al. **Med Microbiol Immunol (Berl)** 1997 Mar;185(4):253–60

Development of enzyme–linked immunosorbent assays using recombinant borrelial antigens for serodiagnosis of Borrelia burgdorferi infection. Burkert S, et al. **Med Microbiol Immunol (Berl)** 1996 May;185(1):49–57

Analysis of the human antibody response to outer surface protein C (OspC) of Borrelia burgdorferi sensu stricto, B. garinii, and B. afzelii. Mathiesen MJ, et al. **Med Microbiol Immunol (Berl)** 1996 Nov;185(3):121–9

High– and low–level cytokine induction in human peripheral blood mononuclear cells by different Borrelia burgdorferi strains. Schulze J, et al. **Med Microbiol Immunol (Berl)** 1996 May;185(1):31–7

Anti–OspA antibody reduces reservoir competence of mice for Borrelia burgdorferi, the agent of Lyme disease. Brunet LR, et al. **Med Vet Entomol** 1997 Apr;11(2):198–200

Detection of Lyme disease after OspA vaccine [letter] Schutzer SE, et al. **N Engl J Med** 1997 Sep 11;337(11):794–5

Diagnostic value of cerebrospinal fluid examination in children with peripheral facial palsy and suspected Lyme borreliosis. Albisetti M, et al. **Neurology** 1997 Sep; 49(3):817–24

Determination of antibodies to Borrelia burgdorferi in the serum of patients living in Calabria, southern Italy. Santino I, et al. **Panminerva Med** 1996 Sep;38(3):167–72

Seroprevalence of Borrelia burgdorferi in dogs in Alabama, USA. Wright JC, et al. **Prev Vet Med** 1997 Jul; 31(1–2):127–31

Positive Lyme titers in a patient with active sarcoidosis [letter] Graber TA, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1997 Mar;14(1):86

Lyme disease is not prevalent in patients presenting with annular erythema in Singapore. Goh CL, et al. **Singapore Med J** 1996 Jun;37(3):250–1

OspA lipoprotein of Borrelia burgdorferi is a mucosal immunogen and adjuvant. Erdile LF, et al. **Vaccine** 1997 Jun;15(9):988–96

Oral delivery of purified lipoprotein OspA protects mice from systemic infection with Borrelia burgdorferi. Luke CJ, et al. **Vaccine** 1997 Apr–May;15(6–7):739–46

Safety, efficacy, and immunogenicity of a recombinant Osp subunit canine Lyme disease vaccine. Ma J, et al. **Vaccine** 1996 Oct;14(14):1366–74

Antibodies to OspB prevent infection of C3H mice challenged with Borrelia burgdorferi isolates expressing truncated OspB antigens. Probert WS, et al. **Vaccine** 1997 Jan;15(1):15–9

Evaluation of the safety, reactogenicity and immunogenicity of three recombinant outer surface protein (OspA) lyme vaccines in healthy adults. Van Hoecke C, et al. **Vaccine** 1996 Dec;14(17–18):1620–6

Enzyme–linked immunosorbent assay and immunoblot analysis for detection of antibodies to Borrelia burgdorferi in dogs. The impact of serum absorption with homologous and heterologous bacteriae. Wittenbrink MM, et al. **Vet Microbiol** 1996 Feb;48(3–4):257–68

Lyme disease serology in cattle [letter; comment] [see comments] Cranwell MP, et al. **Vet Rec** 1996 Jun 1; 138(22):551–2. Comment on: Vet Rec 1994 Dec 10;135(24):577–8. Comment in: Vet Rec 1996 Jun 15;138(24):600.

Serologic survey for antibodies to Borrelia burgdorferi in sheep, goats and dogs in Cordillera Province, Bolivia. Ciceroni L, et al. **Zentralbl Veterinarmed [B]** 1997 May; 44(3):133–7

[Borrelia lymphocytoma ('winter ears') in children] Obihara CC, et al. **Ned Tijdschr Geneeskd** 1997 Mar 8;141(10):482–4 (Eng. Abstr.) **(Dut)**

[Antibody titers against Borrelia in horses in serum and in eyes and occurrence of equine recurrent uveitis] Gerhards H, et al. **Berl Munch Tierarztl Wochenschr** 1996 Aug; 109(8):273–8 (Eng. Abstr.) **(Ger)**

[Results of determining antibodies against Borrelia burgdorferi in patients with limited scleroderma] Silny W, et al. **Pol Tyg Lek** 1996 Jun;51(23–26):329–30 **(Pol)**

[Detection of antibodies of Borrelia burgdorferi among inhabitants of north–eastern Poland] Pancewicz SA, et al. **Przegl Epidemiol** 1996;50(4):375–81 (Eng. Abstr.) **(Pol)**

[Frequency of lyme borreliosis and diagnostic titers of antibodies to borrelia burgdorferi in patients with neurological diseases in endemic region of Russia] Il'ina NS, et al. **Klin Med (Mosk)** 1996;74(4):39–42 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Positive Lyme disease serology in patients with clinical and laboratory evidence of human granulocytic ehrlichiosis. Wormser GP, et al. **Am J Clin Pathol** 1997 Feb; 107(2):142–7

Inhibition of efficient polymerase chain reaction amplification of Borrelia burgdorferi DNA in blood–fed ticks. Schwartz I, et al. **Am J Trop Med Hyg** 1997 Mar;56(3):339–42

Culture–confirmed infection and reinfection with Borrelia burgdorferi. Nowakowski J, et al. **Ann Intern Med** 1997 Jul 15;127(2):130–2

A molecular marker for the identification of the zoonotic reservoirs of Lyme borreliosis by analysis of the blood meal in its European vector Ixodes ricinus. Kirstein F, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4060–5

Local variations in the distribution and prevalence of Borrelia burgdorferi sensu lato genomospecies in Ixodes ricinus ticks. Kirstein F, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):1102–6

Viability of Borrelia burgdorferi in stored semen. Kumi–Diaka J, et al. **Br Vet J** 1995 Mar–Apr;151(2):221–4

Isolation of Borrelia burgdorferi--Thunder Bay District, Ontario. Banerjee S, et al. **Can Commun Dis Rep** 1996 Aug 15;22(16):138–40 **(Eng, Fre)**

PCR–restriction fragment length polymorphism analysis of the ospC gene for detection of mixed culture and for epidemiological typing of Borrelia burgdorferi sensu stricto. Masuzawa T, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):60–3

Leukopenia, thrombocytopenia, and Lyme borreliosis: is there an association? [letter; comment] Nadelman RB, et al. **Clin Infect Dis** 1997 May;24(5):1027–9. Comment on: Clin Infect Dis 1996 Jun;22(6):1119–20.

European Lyme borreliosis: 231 culture–confirmed cases involving patients with erythema migrans [published erratum appears in Clin Infect Dis 1996 Nov;23(5):1202] Strle F, et al. **Clin Infect Dis** 1996 Jul;23(1):61–5

PCR in laboratory diagnosis of human Borrelia burgdorferi infections. Schmidt BL. **Clin Microbiol Rev** 1997 Jan; 10(1):185–201 (195 ref.)

Peripheral facial palsy: antibody levels to Borrelia in serum and CSF. Hanner P, et al. **Clin Otolaryngol** 1993 Oct; 18(5):419–22

Current aspects of Lyme disease and other Borrelia burgdorferi infections. Berger BW. **Dermatol Clin** 1997 Apr;15(2):247–55 (58 ref.)

Improved serodiagnostic testing for Lyme disease: results of a multicenter serologic evaluation. Craven RB, et al. **Emerg Infect Dis** 1996 Apr–Jun;2(2):136–40

Detection of four species of Borrelia burgdorferi sensu lato in Ixodes ricinus ticks collected from roe deer (Capreolus capreolus) in The Netherlands. Rijpkema SG, et al. **Epidemiol Infect** 1996 Dec;117(3):563–6

Single–tube nested polymerase chain reaction assay based on Flagellin gene sequences for detection of Borrelia burgdorferi sensu lato. Picken MM, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):489–98

Clinical and laboratory evidence of the importance of the tick D. marginatus as a vector of B. burgdorferi in some areas of sporadic Lyme disease in Bulgaria. Angelov L, et al. **Eur J Epidemiol** 1996 Oct;12(5):499–502

Tick zoonoses in the southern part of Switzerland (Canton Ticino): occurrence of Borrelia burgdorferi sensu lato and Rickettsia sp. Bernasconi MV, et al. **Eur J Epidemiol** 1997 Feb;13(2):209–15

Prevalence of Borrelia burgdorferi (sensu lato) in Ixodes ricinus (L.) populations in France, according to a phytoecological zoning of the territory. Gilot B, et al. **Eur J Epidemiol** 1996 Aug;12(4):395–401

A simple method of transmission risk assessment in enzootic foci of Lyme borreliosis. Hubálek Z, et al. **Eur J Epidemiol** 1996 Aug;12(4):331–3

The distribution and prevalence of B. burgdorferi genomospecies in Ixodes ricinus ticks in Ireland. Kirstein F, et al. **Eur J Epidemiol** 1997 Jan;13(1):67–72

Preliminary studies on virus and spirochete accumulation in the cement plug of ixodid ticks. Alekseev AN, et al. **Exp Appl Acarol** 1996 Dec;20(12):713–23

Dynamics of Borrelia burgdorferi infection in nymphal Ixodes ricinus ticks during feeding. Gern L, et al. **Exp Appl Acarol** 1996 Nov;20(11):649–58

Detection of Borrelia burgdorferi sensu lato by PCR in questing Ixodes ricinus larvae from the Dutch North Sea island of Ameland. Rijpkema S, et al. **Exp Appl Acarol** 1996 Jul;20(7):381–5

Role of grey squirrels and pheasants in the transmission of Borrelia burgdorferi sensu lato, the Lyme disease spirochaete, in the U.K. Craine NG, et al. **Folia Parasitol (Praha)** 1997;44(2):155–60

Confirmation of Borrelia burgdorferi spirochetes by polymerase chain reaction in placentas of women with reactive serology for Lyme antibodies. Figueroa R, et al. **Gynecol Obstet Invest** 1996;41(4):240–3

Borrelia burgdorferi infection: clinical diagnostic techniques. Coyle PK. **Immunol Invest** 1997 Jan–Feb;26(1–2):117–28 (67 ref.)

Success and failure in the treatment of acrodermatitis chronica atrophicans. Aberer E, et al. **Infection** 1996 Jan–Feb;24(1):85–7

Borrelia burgdorferi DNA in the urine of treated patients with chronic Lyme disease symptoms. A PCR study of 97 cases. Bayer ME, et al. **Infection** 1996 Sep–Oct; 24(5):347–53

Polymerase chain reaction control of antibiotic treatment in dermatoborreliosis. Muellegger R, et al. **Infection** 1996 Jan–Feb;24(1):76–9

Azithromycin and doxycycline for treatment of Borrelia culture–positive erythema migrans. Strle F, et al. **Infection** 1996 Jan–Feb;24(1):64–8

Treatment of borrelial lymphocytoma. Strle F, et al. **Infection** 1996 Jan–Feb;24(1):80–4

Long–term results in patients with Lyme arthritis following treatment with ceftriaxone. Valešová H, et al. **Infection** 1996 Jan–Feb;24(1):98–102

First isolation and characterisation of Borrelia garinii, agent of Lyme borreliosis, from Irish ticks. Gray JS, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):24–6

Novel Borrelia burgdorferi isolates from Ixodes scapularis and Ixodes dentatus ticks feeding on humans. Anderson JF, et al. **J Clin Microbiol** 1996 Mar;34(3):524–9

Molecular characterization of a 35–kilodalton protein of Borrelia burgdorferi, an antigen of diagnostic importance in early Lyme disease. Gilmore RD Jr, et al. **J Clin Microbiol** 1997 Jan;35(1):86–91

Multiple infections of Ixodes scapularis ticks by Borrelia

burgdorferi as revealed by single-strand conformation polymorphism analysis. Guttman DS, et al. **J Clin Microbiol** 1996 Mar;34(3):652-6

Serologic diagnosis of canine and equine borreliosis: use of recombinant antigens in enzyme-linked immunosorbent assays. Magnarelli LA, et al. **J Clin Microbiol** 1997 Jan; 35(1):169-73

Culturing selects for specific genotypes of Borrelia burgdorferi in an enzootic cycle in Colorado. Norris DE, et al. **J Clin Microbiol** 1997 Sep;35(9):2359-64

An optimized PCR leads to rapid and highly sensitive detection of Borrelia burgdorferi in patients with Lyme borreliosis. Priem S, et al. **J Clin Microbiol** 1997 Mar; 35(3):685-90

Detection of Borrelia burgdorferi-specific DNA in urine specimens from patients with erythema migrans before and after antibiotic therapy. Schmidt B, et al. **J Clin Microbiol** 1996 Jun;34(6):1359-63

Persistence of Borrelia burgdorferi in experimentally infected dogs after antibiotic treatment. Straubinger RK, et al. **J Clin Microbiol** 1997 Jan;35(1):111-6

Borrelia burgdorferi enzyme-linked immunosorbent assay for discrimination of OspA vaccination from spirochete infection. Zhang YQ, et al. **J Clin Microbiol** 1997 Jan; 35(1):233-8

Role of Borrelia burgdorferi in the pathogenesis of morphea/scleroderma and lichen sclerosus et atrophicus: a PCR study of thirty-five cases. De Vito JR, et al. **J Cutan Pathol** 1996 Aug;23(4):350-8

Molecular subtyping of Borrelia burgdorferi sensu lato isolates from five patients with solitary lymphocytoma. Picken RN, et al. **J Invest Dermatol** 1997 Jan;108(1):92-7

Vector competence of Ixodes scapularis, I. spinipalpis, and Dermacentor andersoni (Acari:Ixodidae) in transmitting Borrelia burgdorferi, the etiologic agent of Lyme disease. Dolan MC, et al. **J Med Entomol** 1997 Mar;34(2):128-35

Efficient transmission of Borrelia burgdorferi between cofeeding Ixodes ricinus ticks (Acari: Ixodidae). Gern L, et al. **J Med Entomol** 1996 Jan;33(1):189-92

Borreliae in immature Ixodes ricinus (Acari:Ixodidae) ticks parasitizing birds in the Czech Republic. Hubálek Z, et al. **J Med Entomol** 1996 Sep;33(5):766-71

Absence of Lyme disease spirochetes in larval progeny of naturally infected Ixodes scapularis (Acari:Ixodidae) fed on dogs. Patrican LA. **J Med Entomol** 1997 Jan;34(1):52-5

Presence of Ixodiphagus hookeri (Hymenoptera: Encyrtidae) in two Connecticut populations of Ixodes scapularis (Acari: Ixodidae). Stafford KC 3rd, et al. **J Med Entomol** 1996 Jan;33(1):183-8

Relationship between Ixodes ricinus density and prevalence of infection with Borrelia-like spirochetes and density of infected ticks. Tälleklint L, et al. **J Med Entomol** 1996 Sep; 33(5):805-11

Borrelia burgdorferi-infected Ixodes scapularis (Acari: Ixodidae) and Peromyscus leucopus in northeastern Wisconsin. Walker ED, et al. **J Med Entomol** 1996 Jan; 33(1):165-8

Lyme neuroborreliosis presenting with propriospinal myoclonus [letter] de la Sayette V, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):420

Borrelia burgdorferi sensu lato in an endemic environment: wild sika deer (Cervus nippon yesoensis) with infected ticks and antibodies. Isogai E, et al. **Microbiol Immunol** 1996; 40(1):13-19

Detection of Borrelia burgdorferi DNA by polymerase chain reaction in urine specimens of patients with erythema migrans lesions. Mercier G, et al. **Mol Cell Probes** 1997 Apr;11(2):89-94

Prevalence of the rickettsial agent of human granulocytic ehrlichiosis in ticks from a hyperendemic focus of Lyme disease [letter] Schwartz I, et al. **N Engl J Med** 1997 Jul 3;337(1):49-50

Intracellular persistence of Borrelia burgdorferi in human synovial cells. Girschick HJ, et al. **Rheumatol Int** 1996; 16(3):125-32

Tick infestation patterns and prevalence of Borrelia burgdorferi in ticks collected at a veterinary clinic in Germany. Beichel E, et al. **Vet Parasitol** 1996 Oct 15; 65(1-2):147-55

The etiological agent of Lyme disease, Borrelia burgdorferi, in ticks (Acari:Ixodidae) from eastern Poland. Wegner Z, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):93-106

[Ecoepidemiology of Lyme borreliosis in the Rhône-Alps region. Distribution, ecological context, relationship to the distribution of Ixodes ricinus (Linnaeus, 1758)] Pichot J, et al. **Parasite** 1994 Dec;1(4):335-42 (Eng. Abstr.) **(Fre)**

[Appearance of antibodies against Borrelia burgdorferi in different populations of pigeons (Columba livia var. domestica vel urbana] Thormählen B, et al. **Tierarztl Prax** 1997 Apr;25(2):145-7 (Eng. Abstr.) **(Ger)**

[The evaluation of Borrelia burgdorferi sensu lato spirochaetes distribution in Ixodes ricinus ticks collected in selected regions of Wielkopolska+ regions by polymerase chain reaction (PCR) method] Jenek J, et al. **Przegl Epidemiol** 1996;50(4):383-6 (Eng. Abstr.) **(Pol)**

[Use of indirect immunofluorescence and polymerase chain reaction (PCR) for detection of Borrelia burgdorferi in ticks] Tylewska-Wierzbanowska S, et al. **Przegl Epidemiol** 1996;50(3):239-44 (11 ref.) (Eng. Abstr.) **(Pol)**

[The localization of Borrelia in the body of the Ixodes persulcatus tick at different developmental stages] Balashov IuS, et al. **Parazitologiia** 1997 Mar-Apr;31(2):97-103 (Eng. Abstr.) **(Rus)**

[Preliminary identification of Borrelia burgdorferi isolated from Ixodes ricinus ticks in eastern Slovakia] Tresová G, et al. **Epidemiol Mikrobiol Imunol** 1997 Mar;46(1):36-8 (Eng. Abstr.) **(Slo)**

[Neurological manifestations in patients with sera positive for Borrelia burgdorferi (see comments) (published erratum appears in Neurologia 1997 May;12(5):200)] Corral I, et al. **Neurologia** 1997 Jan;12(1):2-8 (Eng. Abstr.). Comment in: Neurologia 1997 Jun-Jul;12(6):268-9. **(Spa)**

METABOLISM

Borrelia burgdorferi possesses a collagenolytic activity. Grab DJ, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):39-45

Immunolocalization of a 22 kDa protein (IPLA7, P22) of Borrelia burgdorferi. Grewe C, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):215-9

CD28 expression by mouse mast cells is modulated by lipopolysaccharide and outer surface protein A lipoprotein from Borrelia burgdorferi. Marietta EV, et al. **J Immunol** 1997 Sep 15;159(6):2840-8

Post-Lyme disease syndrome under trial [news] O'Brien C. **Mol Med Today** 1996 Oct;2(10):407

PATHOGENICITY

Invasion and cytopathic killing of human lymphocytes by spirochetes causing Lyme disease. Dorward DW, et al. **Clin Infect Dis** 1997 Jul;25 Suppl 1:S2-8

Temporal pattern of Borrelia burgdorferi p21 expression in ticks and the mammalian host. Das S, et al. **J Clin Invest** 1997 Mar 1;99(5):987-95

Role of Borrelia burgdorferi in the pathogenesis of morphea/scleroderma and lichen sclerosus et atrophicus: a PCR study of thirty-five cases. De Vito JR, et al. **J Cutan Pathol** 1996 Aug;23(4):350-8

Borrelia burgdorferi adherence and injury to undifferentiated and differentiated neural cells in vitro. Peters DJ, et al. **J Infect Dis** 1997 Aug;176(2):470-7

Ability of the Lyme disease spirochete Borrelia burgdorferi to infect rodents and three species of human-biting ticks (blacklegged tick, American dog tick, lone star tick) (Acari:Ixodidae). Piesman J, et al. **J Med Entomol** 1997 Jul;34(4):451-6

Cytokines in the serum and brain in mice infected with distinct species of Lyme disease Borrelia. Isogai E, et al. **Microb Pathog** 1996 Dec;21(6):413-9

[Epidemiology of Borrelia burgdorferi infections in south-eastern Poland in 1992-1995] Bajcar S, et al. **Przegl Epidemiol** 1996;50(4):371-4 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Regulation of chemokine gene expression in human endothelial cells by proinflammatory cytokines and Borrelia burgdorferi. Ebnet K, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:107-17

Characterization of the physiological requirements for the bactericidal effects of a monoclonal antibody to OspB of Borrelia burgdorferi by confocal microscopy. Escudero R, et al. **Infect Immun** 1997 May;65(5):1908-15

Borrelia burgdorferi induces secretion of pro-urokinase-type plasminogen activator by human monocytes. Fuchs H, et al. **Infect Immun** 1996 Oct;64(10):4307-12

Glycosphingolipid-binding protein of Borrelia burgdorferi sensu lato. Kaneda K, et al. **Infect Immun** 1997 Aug; 65(8):3180-5

Effects of Ixodes scapularis and Borrelia burgdorferi on modulation of the host immune response: induction of a TH2 cytokine response in Lyme disease-susceptible (C3H/HeJ) mice but not in disease-resistant (BALB/c) mice. Zeidner N, et al. **Infect Immun** 1997 Aug;65(8):3100-6

Lyme borreliosis in the southern United States: a review. Oliver JH Jr. **J Parasitol** 1996 Dec;82(6):926-35 (134 ref.)

Compatibility of two species of Ixodes ticks with murid hosts and its effect on transmission of Lyme disease spirochaetes. Richter PJ Jr, et al. **Med Vet Entomol** 1996 Jul;10(3):291-4

Characterization of a 30-kDa Borrelia burgdorferi substrate-binding protein homologue. Das S, et al. **Res Microbiol** 1996 Nov-Dec;147(9):739-51

Microbiology of Borrelia burgdorferi. Rosa PA. **Semin Neurol** 1997 Mar;17(1):5-10 (83 ref.)

Adherence of Borrelia burgdorferi to granulocytes of different animal species. Grassmann B, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):501-8

[Ticks as a reservoir of Borrelia burgdorferi and Coxiella burnetii on Polish terrain] Tylewska-Wierzbanowska S, et al. **Przegl Epidemiol** 1996;50(3):245-51 (Eng. Abstr.) **(Pol)**

ULTRASTRUCTURE

Formation and cultivation of Borrelia burgdorferi spheroplast-L-form variants. Mursic VP, et al. **Infection** 1996 May-Jun;24(3):218-26

Structural analysis of the Leptospiraceae and Borrelia burgdorferi by high-voltage electron microscopy. Goldstein SF, et al. **J Bacteriol** 1996 Nov;178(22):6539-45

BORRELIA INFECTIONS

[A case of neuroborreliosis with unilateral radiculoneuropathy and elevated serum antibodies for Borrelia garinii and Borrelia afzelii] Miyazaki K, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1155-60 (29 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Peripheral facial palsy: antibody levels to Borrelia in serum and CSF. Hanner P, et al. **Clin Otolaryngol** 1993 Oct; 18(5):419-22

CEREBROSPINAL FLUID

Peripheral facial palsy: antibody levels to Borrelia in serum and CSF. Hanner P, et al. **Clin Otolaryngol** 1993 Oct; 18(5):419-22

COMPLICATIONS

Borrelial fasciitis: diffuse fasciitis and peripheral eosinophilia associated with Borrelia infection. Granter SR, et al. **Am J Dermatopathol** 1996 Oct;18(5):465-73

[A 45-year-old patient with fever of unknown origin (clinical conference)] **Rev Clin Esp** 1997 May;197(5):373-81 **(Spa)**

DIAGNOSIS

Borreliosis in the Arabian Gulf States: report of a case from Kuwait. Hira PR. **Clin Infect Dis** 1996 Jun;22(6):1114-6

Occurrence of Borrelia garinii oculo-neuroborreliosis in Japan. Yukitake M, et al. **J Neurol Sci** 1996 Oct; 142(1-2):160-1

[An unusual course of neuroborreliosis with ocular involvement in a child] Říčařová R, et al. **Cesk Slov Oftalmol** 1996 Nov;52(6):367-71 (Eng. Abstr.) **(Cze)**

[Vasculitis course of neuroborreliosis with thalamic infarct] Keil R, et al. **Nervenarzt** 1997 Apr;68(4):339-41 (Eng. Abstr.) **(Ger)**

[Lyme disease in Mato Grosso do Sul State, Brazil: report of three clinical cases, including the first of Lyme meningitis in Brazil] Costa IP, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Nov-Dec; 51(6):253-7 (Eng. Abstr.) **(Por)**

[Nervous system lesions in patients with ixodid tick-borne borreliosis] Vorob'eva NN, et al. **Med Parazitol (Mosk)** 1996 Jul-Sep;(3):19-22 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Reversal of Borrelia burgdorferi associated dilated cardiomyopathy by antibiotic treatment? Gasser R, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):351-60

Prevention of borreliosis in persons bitten by infected ticks. Korenberg EI, et al. **Infection** 1996 Mar-Apr;24(2):187-9

EPIDEMIOLOGY

[Infections of the Lyme borreliosis group--ixodid tick-borne borrelioses in Russia] Korenberg EI. **Med Parazitol (Mosk)** 1996 Jul-Sep;(3):14-8 (Eng. Abstr.) **(Rus)**

GENETICS

Simultaneous infection of Ixodes ricinus nymphs by two Borrelia burgdorferi sensu lato species: possible implications for clinical manifestations. Pichon B, et al. **Emerg Infect Dis** 1995 Jul-Sep;1(3):89-90

IMMUNOLOGY

Levels of endogenous interleukin-1, interleukin-6, and tumor necrosis factor in congenic mice infected with Borrelia garinii. Isogai H, et al. **Microbiol Immunol** 1997; 41(5):427-30

MICROBIOLOGY

Apodemus sp. rodents, reservoir hosts for Borrelia afzelii in an endemic area in Switzerland. Hu CM, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):558-64

[The functioning of foci of mixed tick-borne infections on Russian territory] Alekseev AN, et al. **Med Parazitol (Mosk)** 1996 Oct-Dec;(4):9-16 (Eng. Abstr.) **(Rus)**

[Standards for reviewing preparations in the study of ixodid tick nymphs by dark-field microscopy in borreliosis foci] Kovalevskiĭ IuV, et al. **Med Parazitol (Mosk)** 1996 Oct-Dec;(4):18-21 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

A mouse model of Borrelia meningitis after intradermal injection. Garcia-Monco JC, et al. **J Infect Dis** 1997 May; 175(5):1243-5

PREVENTION & CONTROL

Prevention of borreliosis in persons bitten by infected ticks. Korenberg EI, et al. **Infection** 1996 Mar-Apr;24(2):187-9

[Antibacterial therapy as a means of preventing ixodid tick-borne borreliosis] Korenberg EI, et al. **Med Parazitol (Mosk)** 1996 Apr-Jun;(2):3-8 (Eng. Abstr.) **(Rus)**

[The clinical aspects of the results of antibiotic prophylaxis in ixodid tick-borne borreliosis] Vorob'eva NN, et al. **Med Parazitol (Mosk)** 1996 Apr-Jun;(2):8-10 **(Rus)**

BORRELIA INFECTIONS

TRANSMISSION

Ticks and Borrelia: model systems for investigating pathogen–arthropod interactions. Schwan TG. **Infect Agents Dis** 1996 Jun;5(3):167–81 (120 ref.)

Transmission of the Lyme disease spirochete, Borrelia garinii, between infected and uninfected immature Ixodes persulcatus during cofeeding on mice. Sato Y, et al. **J Parasitol** 1997 Jun;83(3):547–50

Neonatal Borrelia duttoni infection: a report of three cases. van Holten J, et al. **Trop Doct** 1997 Apr;27(2):115–6

[The isolation of Borrelia from the tick Ixodes trianguliceps (Ixodidae) and the possible significance of this species in the epizootiology of ixodid tick–borne borrelioses] Gorelova NB, et al. **Parazitologiia** 1996 Jan–Feb;30(1):13–8 (Eng. Abstr.) **(Rus)**

[Ixodid tick–borne borrelioses—a new group of human diseases] Korenberg EI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul–Aug; (4):104–8 (59 ref.) **(Rus)**

VETERINARY

Reservoir competence of the vole, Clethrionomys rufocanus bedfordiae, for Borrelia garinii or Borrelia afzelii. Ishiguro F, et al. **Microbiol Immunol** 1996;40(1):67–9

Survey of tick related problems in roe deer (Capreolus capreolus) in The Netherlands. Dorrestein GM, et al. **Vet Q** 1996;18 Suppl 3:S148 (5 ref.)

Do roe deer (Capreolus capreolus) spread Borrelia–infected Ixodes ricinus ticks? Rijpkema SG. **Vet Q** 1996;18 Suppl 3:S146–7 (14 ref.)

[Spontaneous mixed infection in rodents with Borrelia and Leptospira] Gorelova NB, et al. **Med Parazitol (Mosk)** 1996 Oct–Dec;(4):53 (Eng. Abstr.) **(Rus)**

VIROLOGY

[The functioning of foci of mixed tick–borne infections on Russian territory] Alekseev AN, et al. **Med Parazitol (Mosk)** 1996 Oct–Dec;(4):9–16 (Eng. Abstr.) **(Rus)**

BOTANICAL INSECTICIDES see **INSECTICIDES, BOTANICAL**

BOTANY

see related
ETHNOBOTANY
PLANTS

Plant biology in the post–Gutenberg era. Everything you wanted to know and more on the World Wide Web. Somerville C, et al. **Plant Physiol** 1997 Apr;113(4):1015–22

HISTORY

The origin of developmental physiology of plants in Germany. Bopp M. **Int J Dev Biol** 1996 Feb;40(1):89–92

[Landell traces Linne: physician and gardener] Fällman H. **Lakartidningen** 1997 Jun 18;94(25):2342–5 **(Swe)**

METHODS

Seal–promoting solutions and pipette perfusion for patch clamping plant cells. Maathuis JM, et al. **Plant J** 1997 Apr; 11(4):891–6

STANDARDS

Code of Ethics for Foreign Plant Collectors, developed at the Botany 2000 Herbarium Curation Workshop held in Perth, Australia, October 13– 19, 1990. **J Ethnopharmacol** 1996 Apr;51(1–3):309

BOTHROPS

Isolation and characterization of a myotoxic phospholipase A2 from the venom of the arboreal snake Bothriechis (Bothrops) schlegelii from Costa Rica. Angulo Y, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):260–6

Pharmacological profile of rat pleurisy induced by Bothrops jararaca venom. Búrigo AC, et al. **J Pharm Pharmacol** 1996 Jan;48(1):106–11

Snake bites by the jararacuçu (Bothrops jararacussu): clinicopathological studies of 29 proven cases in São Paulo State, Brazil. Milani Júnior R, et al. **QJM** 1997 May; 90(5):323–34

Platelet aggregation in patients bitten by the Brazilian snake Bothrops jararaca. Sano–Martins IS, et al. **Thromb Res** 1997 Jul 15;87(2):183–95

Isolation and characterization of a new clotting factor from Bothrops jararacussu (jararacuçu) venom. Andrião–Escarso SH, et al. **Toxicon** 1997 Jul;35(7):1043–52

An enzyme–linked immunosorbent assay (ELISA) that discriminates between the venoms of Brazilian Bothrops species and Crotalus durissus. Chávez–Olórtegui C, et al. **Toxicon** 1997 Feb;35(2):253–60

Lack of effect of endogenous corticosteroids on the acute inflammatory reaction (edema) induced by Bothrops jararaca venom (BjV) in rats. Cury Y, et al. **Toxicon** 1997 May;35(5):773–6

Chemical modification of histidine and lysine residues of myotoxic phospholipases A2 isolated from Bothrops asper and Bothrops godmani snake venoms: effects on enzymatic and pharmacological properties. Díaz–Oreiro C, et al. **Toxicon** 1997 Feb;35(2):241–52

Leukocyte response induced by Bothrops jararaca crude venom: in vivo and in vitro studies. Farsky SH, et al. **Toxicon** 1997 Feb;35(2):185–93

Neutralization of bothropic and crotalic venom toxic activities by IgG(T) and IgGa subclasses isolated from immune horse serum. Fernandes I, et al. **Toxicon** 1997 Jun; 35(6):931–6

The dynamics of local tissue damage induced by Bothrops asper snake venom and myotoxin II on the mouse cremaster muscle: an intravital and electron microscopic study. Lomonte B, et al. **Toxicon** 1994 Jan;32(1):41–55

Distinct bothrojaracin isoforms produced by individual jararaca (Bothrops jararaca) snakes. Monteiro RQ, et al. **Toxicon** 1997 May;35(5):649–57

Inhibitory properties of the antibothropic complex from the South American opossum (Didelphis marsupialis) serum. Neves–Ferreira AG, et al. **Toxicon** 1997 Jun;35(6):849–63

Clinical indicators of envenoming and serum levels of venom antigens in patients bitten by Bothrops lanceolatus in Martinique. Research Group on Snake Bites in Martinique. Bucher B, et al. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr; 91(2):186–90

A randomized double–blind clinical trial of two antivenoms in patients bitten by Bothrops atrox in Colombia. The Regional Group on Antivenom Therapy Research (REGATHER). Otero R, et al. **Trans R Soc Trop Med Hyg** 1996 Nov–Dec;90(6):696–700

[Antivenom serum doses in the treatment of poisoning by a venomous snake of the genus Bothrops] Jorge MT, et al. **Rev Assoc Med Bras** 1997 Jan–Mar;43(1):74–6 (18 ref.) **(Por)**

[Effects of Bothrops alternatus venom of Argentina on muscle and different organs in mices] de Pérez OA, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):97–102 (Eng. Abstr.) **(Spa)**

BLOOD

Biochemical characterization and pharmacological properties of a phospholipase A2 myotoxin inhibitor from the plasma of the snake Bothrops asper. Lizano S, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):853–9

GENETICS

Cloning and sequence analysis of a Bothrops jararaca cDNA encoding a precursor of seven bradykinin–potentiating peptides and a C–type natriuretic peptide. Murayama N, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1189–93

IMMUNOLOGY

Effect of adjuvants on the antibody response of mice to Bothrops asper (Terciopelo) snake venom. Rucavado A, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1337–40

METABOLISM

L–cystine–di–beta–naphthylamidase activity in plasma of the snake Bothrops jararaca after chronic challenges of water balance. Silveira PF, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Jul;114(3):185–92

VIROLOGY

Intraerythrocytic inclusions associated with iridoviral infection in a fer de lance (Bothrops moojeni) snake. Johnsrude JD, et al. **Vet Pathol** 1997 May;34(3):235–8

BOTHROPS JARARACA see **BOTHROPS**

BOTRYTIS see **HYPHOMYCETES**

BOTTLE FEEDING

The influence of feeding regimens on endogenous digoxin–like immunoreactive substance concentrations in infants. Kurugöl Z, et al. **Acta Paediatr** 1996 Jun; 85(6):753–4

Nutrition and growth during infancy. The Copenhagen Cohort Study. Michaelsen KF. **Acta Paediatr Suppl** 1997 May;420:1–36

In vitro fermentation of carbohydrate by breast fed and formula fed infants. Parrett AM, et al. **Arch Dis Child** 1997 Mar;76(3):249–53

Faecal chymotrypsin in small for gestational age infants: effects of nucleotides and breast feeding. Cosgrove M, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 May; 76(3):F201–2

Water supplementation of infants in the first month of life. Scariati PD, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):830–2

Streptococcus mutans in children using nursing bottles. Kreulen CM, et al. **ASDC J Dent Child** 1997 Mar–Apr; 64(2):107–11

Does early supplementation affect long–term breastfeeding? Hill PD, et al. **Clin Pediatr (Phila)** 1997 Jun;36(6):345–50

An IgA, IgG and IgM–containing human immunoglobulin for oral administration to high–risk bottle–fed newborns. I. Immunochemical characterisation and antibody activity. Vassilev TL, et al. **Int J Hematol** 1997 Apr;65(3):277–83

Bottle–feeding histories of preterm infants. Pickler RH, et al. **J Obstet Gynecol Neonatal Nurs** 1997 Jul–Aug; 26(4):414–20

Nipple confusion—who is confused? [letter; comment] [see comments] Fisher C, et al. **J Pediatr** 1996 Jul;129(1):174–5 . Comment on: J Pediatr 1995 Jun;126(6):S125–9. Comment in: J Pediatr 1997 Jun;130(6):1012.

Oral feeding in low birth weight infants. Lau C, et al. **J Pediatr** 1997 Apr;130(4):561–9

Throat microflora in breastfed and formula–fed infants. Hokama T, et al. **J Trop Pediatr** 1996 Dec;42(6):324–6

Stress, bottlefeeding, and diabetes [letter] Huang Z, et al. **Lancet** 1997 Sep 20;350(9081):889

Enteroaggregative Escherichia coli in infant feeding bottles [letter] Morais TB, et al. **Lancet** 1997 May 17; 349(9063):1448–9

Breastfeeding business [news] Jones JS. **S Afr Med J** 1996 Jul;86(7):763–4

Infant feeding patterns on Mauritius Island, 1991. Grummer–Strawn LM, et al. **Soc Sci Med** 1996 Dec; 43(12):1697–702

Comparison of growth, serum prealbumin, transferrin, IgG and amino acids of term infants fed breast mild or formula. Kurugöl Z, et al. **Turk J Pediatr** 1997 Apr–Jun; 39(2):195–202

ADVERSE EFFECTS

Effects of bottle feeding and two different methods of gavage feeding on oxygenation and breathing patterns in preterm infants. Poets CF, et al. **Acta Paediatr** 1997 Apr; 86(4):419–23

Clinical outcomes for nursing caries treated using general anesthesia. Berkowitz RJ, et al. **ASDC J Dent Child** 1997 May–Jun;64(3):210–1, 228

Parents and nursing–bottle caries. van Everdingen T, et al. **ASDC J Dent Child** 1996 Jul–Aug;63(4):271–4

Oral palatine ulcers of a traumatic nature in infants: Bednar's aphthae. Pedra C, et al. **Int J Pediatr Otorhinolaryngol** 1996 Mar;35(1):39–49

Assessing the cariogenic potential of some infant formulas, milk and sugar solutions. Bowen WH, et al. **J Am Dent Assoc** 1997 Jul;128(7):865–71

Parental awareness, habits, and social factors and their relationship to baby bottle tooth decay. Febres C, et al. **Pediatr Dent** 1997 Jan–Feb;19(1):22–7

Changes in maternal attitudes toward baby bottle tooth decay. Kanellis MJ, et al. **Pediatr Dent** 1997 Jan–Feb; 19(1):56–60

Knowledge of male and female midwestern college students about baby bottle tooth decay. Logan HL, et al. **Pediatr Dent** 1996 May–Jun;18(3):219–23

Baby bottle tooth decay and complications during pregnancy and delivery. Peretz B, et al. **Pediatr Dent** 1997 Jan–Feb; 19(1):34–6

The relationship of sleep problems and sleep–associated feeding to nursing caries. Shantinath SD, et al. **Pediatr Dent** 1996 Sep–Oct;18(5):375–8

Delayed bottle weaning and iron deficiency in southeast Asian toddlers. Graham EA, et al. **West J Med** 1997 Jul; 167(1):10–4

INSTRUMENTATION

Masseter muscle activity in bottle feeding with the chewing type bottle teat: evidence from electromyographs. Sakashita R, et al. **Early Hum Dev** 1996 Jul 5;45(1–2):83–92

Mechanics and energetics of nutritive sucking: a functional comparison of commercially available nipples. Fadavi S, et al. **J Pediatr** 1997 May;130(5):740–5

[The sterilization of bottles, nipples and water: why do we make mothers work too much? (letter)] Alcover Bloch E, et al. **An Esp Pediatr** 1996 May;44(5):524–5 **(Spa)**

METHODS

Comparison of continuous versus intermittent sucking in very–low–birth–weight infants. Shiao SY. **J Obstet Gynecol Neonatal Nurs** 1997 May–Jun;26(3):313–9

STATISTICS & NUMERICAL DATA

Infant and child feeding practices: a preliminary investigation. Wyne AH, et al. **Aust Dent J** 1997 Feb; 42(1):54–8

TRENDS

[Past and present status in the design of infant formulas] Ronayne de Ferrer PA. **Arch Latinoam Nutr** 1995 Dec; 45(4):265–73 (67 ref.) (Eng. Abstr.) **(Spa)**

BOTULIN see **BOTULINUM TOXINS**

BOTULINUM ANTITOXIN

THERAPEUTIC USE

Preventing ptosis after botulinum treatment. Scott AB. **Ophthal Plast Reconstr Surg** 1997 Jun;13(2):81–3

BOTULINUM TOXIN TYPE A

ADMINISTRATION & DOSAGE

Botulinum toxin A injection in the treatment of hemifacial spasm. Chen RS, et al. **Acta Neurol Scand** 1996 Sep;

94(3):207–11

Botox concerns [letter; comment] Carruthers A, et al. **Dermatol Surg** 1997 Apr;23(4):308–9. Comment on: Dermatol Surg 1996 Jan;22(1):39–43.

Cosmetic therapy with botulinum toxin, Anecdotal memoirs [editorial] Klein AW. **Dermatol Surg** 1996 Sep;22(9):757–9

'Botulinum toxin A in the hemiplegic upper limb: a double-blind trial' [letter; comment] Arens LJ, et al. **Dev Med Child Neurol** 1997 Jul;39(7):491–2. Comment on: Dev Med Child Neurol 1997 Mar;39(3):185–93.

Treatment of dystonia occurring in parkinsonian syndromes by botulinum toxin. Limousin P, et al. **Eur Neurol** 1997; 37(1):66–7

Porcelinizing discolorization of the periocular skin following botulinum A toxin injections [letter] Friedland S, et al. **J Neuroophthalmol** 1996 Mar;16(1):70–2

Botulinum toxin type A injection for hyperfunctional facial lines [letter] [comment] Herwig SR. **Laryngoscope** 1996 Sep;106(9 Pt 1):1187. Comment on: Laryngoscope 1995 Oct;105(10):1134–7.

Alternating unilateral botulinum toxin type A (BOTOX) injections for spasmodic dysphonia. Koriwchak MJ, et al. **Laryngoscope** 1996 Dec;106(12 Pt 1):1476–81

The variability in the clinical effect induced by botulinum toxin type A: the role of muscle activity in humans. Eleopra R, et al. **Mov Disord** 1997 Jan;12(1):89–94

A randomized, double-blind, placebo-controlled study to evaluate botulinum toxin type A in essential hand tremor. Jankovic J, et al. **Mov Disord** 1996 May;11(3):250–6

Treatment outcomes in cervical dystonia: a clinimetric study. Lindeboom R, et al. **Mov Disord** 1996 Jul;11(4):371–6 (48 ref.)

Treatment of nonoccupational limb and trunk dystonia with botulinum toxin. Quirk JA, et al. **Mov Disord** 1996 Jul; 11(4):377–83

Comparison of clinical rating scales in treatment of cervical dystonia with botulinum toxin. Tarsy D. **Mov Disord** 1997 Jan;12(1):100–2

Human response to botulinum toxin injection: type B compared with type A. Sloop RR, et al. **Neurology** 1997 Jul;49(1):189–94

Oculinum injection-resistant blepharospasm in young patients [letter; comment] Roggenkämper P, et al. **Ophthal Plast Reconstr Surg** 1997 Mar;13(1):73. Comment on: Ophthal Plast Reconstr Surg 1994 Sep;10(3):193–4.

[Use of botulinum toxin in ophthalmology] Huber A. **Klin Monatsbl Augenheilkd** 1997 May;210(5):289–92 (28 ref.) (Eng. Abstr.) **(Ger)**

[Treatment of spasmotic torticollis with botulinum toxin A. A 5-year experience] Borgmann R. **Tidsskr Nor Laegeforen** 1997 May 20;117(13):1889–91 (Eng. Abstr.) **(Nor)**

[Treatment of spasticity with botulinum toxin] Kerty E, et al. **Tidsskr Nor Laegeforen** 1997 May 30;117(14):2022–4 (Eng. Abstr.) **(Nor)**

[Twisted neck—torticollis. Efficient treatment is available] Nyberg-Hansen R. **Tidsskr Nor Laegeforen** 1997 May 20; 117(13):1877 **(Nor)**

ADVERSE EFFECTS

The swallowing side effects of botulinum toxin type A injection in spasmodic dysphonia. Buchholz DW, et al. **Dysphagia** 1997 Winter;12(1):59–60

Generalised botulism-like syndrome after intramuscular injections of botulinum toxin type A: a report of two cases [letter] Bakheit AM, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):198

Diplopia following subcutaneous injections of botulinum A toxin for facial spasms. Wutthiphan S, et al. **J Pediatr Ophthalmol Strabismus** 1997 Jul–Aug; 34(4):229–34

No effects on heart-rate variability and cardiovascular reflex tests after botulinum toxin treatment of cervical dystonia [letter] Nebe A, et al. **Mov Disord** 1996 May;11(3):337–9

Muscle fiber atrophy in leg muscles after botulinum toxin type A treatment of cervical dystonia. Ansved T, et al. **Neurology** 1997 May;48(5):1440–2

Preventing ptosis after botulinum treatment. Scott AB. **Ophthal Plast Reconstr Surg** 1997 Jun;13(2):81–3

ANALYSIS

Development of novel assays for botulinum type A and B neurotoxins based on their endopeptidase activities. Hallis B, et al. **J Clin Microbiol** 1996 Aug;34(8):1934–8

ANTAGONISTS & INHIBITORS

Protection by the heavy metal chelator N,N,N',N'-tetrakis (2-pyridylmethyl)ethylenediamine (TPEN) against the lethal action of botulinum neurotoxin A and B. Adler M, et al. **Toxicon** 1997 Jul;35(7):1089–100

Efficacy of certain quinolines as pharmacological antagonists in botulinum neurotoxin poisoning. Deshpande SS, et al. **Toxicon** 1997 Mar;35(3):433–45

CHEMISTRY

Localization of the regions on the C-terminal domain of the heavy chain of botulinum A recognized by T lymphocytes and by antibodies after immunization of mice with pentavalent toxoid. Rosenberg JS, et al. **Immunol Invest** 1997 Jun;26(4):491–504

IMMUNOLOGY

Botulinum A toxin therapy: neutralizing and nonneutralizing antibodies—therapeutic consequences. Göschel H, et al. **Exp Neurol** 1997 Sep;147(1):96–102

Localization of the regions on the C-terminal domain of the heavy chain of botulinum A recognized by T lymphocytes and by antibodies after immunization of mice with pentavalent toxoid. Rosenberg JS, et al. **Immunol Invest** 1997 Jun;26(4):491–504

Molecular characterization of murine humoral immune response to botulinum neurotoxin type A binding domain as assessed by using phage antibody libraries. Amersdorfer P, et al. **Infect Immun** 1997 Sep;65(9):3743–52

Antibody mapping to domains of botulinum neurotoxin serotype A in the complexed and uncomplexed forms. Chen F, et al. **Infect Immun** 1997 May;65(5):1626–30

The EBD test—a clinical test for the detection of antibodies to botulinum toxin type A. Kessler KR, et al. **Mov Disord** 1997 Jan;12(1):95–9

Mapping of protective and cross-reactive domains of the type A neurotoxin of Clostridium botulinum. Dertzbaugh MT, et al. **Vaccine** 1996 Nov;14(16):1538–44

METABOLISM

Endoproteinase activity of type A botulinum neurotoxin: substrate requirements and activation by serum albumin. Schmidt JJ, et al. **J Protein Chem** 1997 Jan;16(1):19–26

PHARMACOKINETICS

Endoproteinase activity of type A botulinum neurotoxin: substrate requirements and activation by serum albumin. Schmidt JJ, et al. **J Protein Chem** 1997 Jan;16(1):19–26

PHARMACOLOGY

Botulinum neurotoxin B inhibits insulin-stimulated glucose uptake into 3T3-L1 adipocytes and cleaves cellubrevin unlike type A toxin which failed to proteolyze the SNAP-23 present. Chen F, et al. **Biochemistry** 1997 May 13;36(19):5719–28

Importance of two adjacent C-terminal sequences of SNAP-25 in exocytosis from intact and permeabilized chromaffin cells revealed by inhibition with botulinum neurotoxins A and E. Lawrence GW, et al. **Biochemistry** 1997 Mar 18;36(11):3061–7

Subcutaneous botulinum toxin type A inhibits regional sweating: an individual observation. Cheshire WP. **Clin Auton Res** 1996 Apr;6(2):123–4

Botulinum A toxins: units versus units. Wohlfarth K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):335–40

Reconstituted botulinum toxin type A does not lose potency in humans if it is refrozen or refrigerated for 2 weeks before use. Sloop RR, et al. **Neurology** 1997 Jan;48(1):249–53

Nerve terminal sprouting in botulinum type-A treated mouse levator auris longus muscle. Juzans P, et al. **Neuromuscul Disord** 1996 May;6(3):177–85

Synaptotagmin II immunoreactivity in normal and botulinum type-A treated mouse motor nerve terminals. Juzans P, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R283–4

THERAPEUTIC USE

Cosmetic uses of botulinum A exotoxin. Carruthers A, et al. **Adv Dermatol** 1997;12:325–47; discussion 348 (70 ref.)

Counterparalysis for treatment of paralytic scoliosis with botulinum toxin type A. Nuzzo RM, et al. **Am J Orthop** 1997 Mar;26(3):201–7

Patient selection in the treatment of glabellar wrinkles with botulinum toxin type A injection. Pribitkin EA, et al. **Arch Otolaryngol Head Neck Surg** 1997 Mar;123(3):321–6

Botulinum toxin A [letter; comment] Geller AS. **Arch Phys Med Rehabil** 1997 Feb;78(2):233–4. Comment on: Arch Phys Med Rehabil 1996 Jul;77(7):717–21.

Botulinum toxin in fourth nerve palsies. Garnham L, et al. **Aust N Z J Ophthalmol** 1997 Feb;25(1):31–5

Double-blind trial of botulinum A toxin for the treatment of focal hyperhidrosis of the palms. Schnider P, et al. **Br J Dermatol** 1997 Apr;136(4):548–52

Treatment selections of 239 patients with blepharospasm and Meige syndrome over 11 years. Mauriello JA Jr, et al. **Br J Ophthalmol** 1996 Dec;80(12):1073–6

Kinematic changes following botulinum toxin injection after traumatic brain injury. Wilson DJ, et al. **Brain Inj** 1997 Mar;11(3):157–67

Botulinum A exotoxin in clinical ophthalmology. Carruthers JD, et al. **Can J Ophthalmol** 1996 Dec;31(7):389–400 (66 ref.)

Botulinum toxin—a possible new treatment for axillary hyperhidrosis. Bushara KO, et al. **Clin Exp Dermatol** 1996 Jul;21(4):276–8

Quantitative electromyography-guided botulinum toxin treatment of cervical dystonia. Finsterer J, et al. **Clin Neuropharmacol** 1997 Feb;20(1):42–8

An open-label study of botulinum toxin A for treatment of tardive dystonia. Tarsy D, et al. **Clin Neuropharmacol** 1997 Feb;20(1):90–3

Botulinum toxin type A for the treatment of arm and hand spasticity in stroke patients. Sampaio C, et al. **Clin Rehabil** 1997 Feb;11(1):3–7

Initial North American experience with botulinum toxin type A for treatment of anismus. Joo JS, et al. **Dis Colon Rectum** 1996 Oct;39(10):1107–11

The short-term impact of Botox injections on speech disability in adductor spasmodic dysphonia. Epstein R, et al. **Disabil Rehabil** 1997 Jan;19(1):20–5

Botulinum toxin treatment of Hertwig-Magendie sign. Rebolleda G, et al. **Eur J Ophthalmol** 1996 Apr–Jun; 6(2):217–9

Botulinum A toxin therapy: neutralizing and nonneutralizing antibodies—therapeutic consequences. Göschel H, et al. **Exp Neurol** 1997 Sep;147(1):96–102

Comparison of two botulinum-toxin preparations in the treatment of essential blepharospasm. Nüssgens Z, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Apr;235(4):197–9

Role of botulinum toxin in treatment of achalasia cardia [see comments] Sood A, et al. **Indian J Gastroenterol** 1996 Jul; 15(3):97–8. Comment in: Indian J Gastroenterol 1996 Jul;15(3):82–5.

The role of botulinum toxin in the treatment of lower limb spasticity in children with cerebral palsy—a pilot study. Zelnik N, et al. **Isr J Med Sci** 1997 Feb;33(2):129–33

Botulinum A exotoxin for glabellar folds: a double-blind, placebo-controlled study with an electromyographic injection technique. Lowe NJ, et al. **J Am Acad Dermatol** 1996 Oct;35(4):569–72

Botulinum A toxin treatment for blepharospasm and Meige syndrome: report of 100 patients. Poungvarin N, et al. **J Med Assoc Thai** 1997 Jan;80(1):1–8

Electrophysiological studies in patients with blepharospasm before and after botulinum toxin A therapy. Behari M, et al. **J Neurol Sci** 1996 Jan;135(1):74–7

Cosmetic upper-facial rejuvenation with botulinum. Ellis DA, et al. **J Otolaryngol** 1997 Apr;26(2):92–6

Uses of botulinum toxin [letter; comment] Girdler NM. **Lancet** 1997 Mar 29;349(9056):953. Comment on: Lancet 1997 Jan 25;349(9047):252.

Sialorrhea in amyotrophic lateral sclerosis: a hypothesis of a new treatment—botulinum toxin A injections of the parotid glands. Bushara KO. **Med Hypotheses** 1997 Apr; 48(4):337–9

A little bit of toxin does you good? [clinical conference] Scrutton J, et al. **Physiother Res Int** 1996;1(3):141–7

Experience with botulinum toxin in the treatment of cerebral palsy. Arens LJ, et al. **S Afr Med J** 1997 Aug;87(8):1001–3

Adult-onset focal dystonias: presentation and treatment options. Esper GJ, et al. **Tenn Med** 1997 Jan;90(1):18–20

Therapeutic botulinum type A toxin: factors affecting potency. Mclellan K, et al. **Toxicon** 1996 Sep;34(9):975–85

[Oromandibular dystonia and botulinum toxins] Van Durme B, et al. **Acta Stomatol Belg** 1996 Mar;93(1):37–41 (38 ref.) (Eng. Abstr.) **(Fre)**

[Botulin toxin a—from poison to muscle relaxant] **Orthopade** 1995 Sep;24(5 Suppl):1–4 **(Ger)**

[The use of type A botulin toxin in the treatment of detrusor-sphincter dyssynergia] Beleggia F, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:61–3 (Eng. Abstr.) **(Ita)**

[Botulinum toxin is effective in the short-term treatment of esophageal achalasia. Preliminary results of a randomized trial] Fiorini A, et al. **Acta Gastroenterol Latinoam** 1996; 26(3):155–7 (Eng. Abstr.) **(Spa)**

[Cerebral palsy therapy] Papazian O, et al. **Rev Neurol** 1997 May;25(141):728–39 (69 ref.) (Eng. Abstr.) **(Spa)**

[Botulinum toxin in spastic infantile cerebral palsy: results in 27 cases during one year] Sánchez-Carpintero R, et al. **Rev Neurol** 1997 Apr;25(140):531–5 (Eng. Abstr.) **(Spa)**

TOXICITY

Upregulation of calcitonin gene-related peptide at mouse motor nerve terminals poisoned with botulinum type-A toxin. Meunier FA, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R297–8

BOTULINUM TOXINS

Botulinum toxin injection as a diagnostic tool for verification of sphincter of Oddi dysfunction causing recurrent pancreatitis. Muehldorfer SM, et al. **Endoscopy** 1997 Feb; 29(2):120–4

[Molecular structure and toxic action of Clostridium botulinum neurotoxin] Kozaki S, et al. **Nippon Saikingaku Zasshi** 1996 Feb;51(2):513–22 (60 ref.) **(Jpn)**

[Treatment of neurological disorders with botulinum toxin: recent progress] Mezaki T, et al. **No To Shinkei** 1997 Jun; 49(6):499–505 (46 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Botulinum toxin for correction of fronto-glabella wrinkles: preliminary evaluation. Matsudo PK. **Aesthetic Plast Surg** 1996 Sep–Oct;20(5):439–41

Comparison of two injection techniques using botulinum toxin in spastic hemiplegia. Childers MK, et al. **Am J Phys Med Rehabil** 1996 Nov–Dec;75(6):462–9

Review of the use of botulinum toxin for aesthetic improvement. Garner W. **Ann Plast Surg** 1996 Feb; 36(2):192

Treatment of symptomatic nonachalasia esophageal motor disorders with botulinum toxin injection at the lower esophageal sphincter. Miller LS, et al. **Dig Dis Sci** 1996 Oct;41(10):2025–31

Controlled trial of botulinum toxin injection versus placebo

and pneumatic dilation in achalasia. Annese V, et al. **Gastroenterology** 1996 Dec;111(6):1418–24

Treatment of achalasia by injection of botulinum toxin under endoscopic ultrasound guidance. Hoffman BJ, et al. **Gastrointest Endosc** 1997 Jan;45(1):77–9

Botulinum toxin injection for an esophageal muscular A-ring. Perez-Arroyo H, et al. **Gastrointest Endosc** 1997 Feb; 45(2):193–5

Achalasia: outcome of patients treated with intrasphincteric injection of botulinum toxin [see comments] Cuillière C, et al. **Gut** 1997 Jul;41(1):87–92. Comment in: Gut 1997 Jul;41(1):131–2.

Being toxic to the oesophagus [comment] Vantrappen G. **Gut** 1997 Jul;41(1):131–2. Comment on: Gut 1997 Jul;41(1):87–92.

Botulinum toxin in painful syndromes. Monsivais JJ, et al. **Hand Clin** 1996 Nov;12(4):787–9

Botulinum neurotoxin injection after total laryngectomy. Hoffman HT, et al. **Head Neck** 1997 Mar;19(2):92–7

Periodic alternating nystagmus treated with retrobulbar botulinum toxin and large horizontal muscle recession. Thomas R, et al. **Indian J Ophthalmol** 1996 Sep;44(3):170–2

Intrasphincteric injection of Botulinum toxin for treating achalasia in children [see comments] Khoshoo V, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):439–41. Comment in: J Pediatr Gastroenterol Nutr 1997 Apr;24(4):447–9.

Botulinum toxin is unsatisfactory therapy for fibromyalgia. Paulson GW, et al. **Mov Disord** 1996 Jul;11(4):459

Botulinum toxin for refractory vocal tics. Salloway S, et al. **Mov Disord** 1996 Nov;11(6):746–8

Botulinum toxin injection into vocal cord in the treatment of malignant coprolalia associated with Tourette's syndrome. Scott BL, et al. **Mov Disord** 1996 Jul;11(4):431–3

Flexor digitorum superficialis: locations of individual muscle bellies for botulinum toxin injections. Bickerton LE, et al. **Muscle Nerve** 1997 Aug;20(8):1041–3

Human response to botulinum toxin injection: type B compared with type A. Sloop RR, et al. **Neurology** 1997 Jul;49(1):189–94

Use of botulinum toxin for diagnosis and management of cricopharyngeal achalasia. Blitzer A, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):328–30

Combination of hypoglossal–facial nerve anastomosis and botulinum-toxin injections to optimize mimic rehabilitation after removal of acoustic neurinomas. Laskawi R. **Plast Reconstr Surg** 1997 Apr;99(4):1006–11

[Treatment of spasmodic dysphonia with botulinum toxin] Vilkman E, et al. **Duodecim** 1995;111(16):1546–51 **(Fin)**

[Neurogenic temporomandibular joint dislocation. Definition and therapy with botulinum toxin] Daelen B, et al. **Nervenarzt** 1997 Apr;68(4):346–50 (Eng. Abstr.) **(Ger)**

[Botulinum toxin therapy in rehabilitation neurology] Dressler D, et al. **Nervenarzt** 1996 Aug;67(8):686–94 (Eng. Abstr.) **(Ger)**

[Intra-sphincter botulin toxin injection for therapy of achalasia] Kölbel CB, et al. **Z Gastroenterol** 1996 Aug; 34(8):512–3 **(Ger)**

[The dose-response relationship in treatment of strabismus with botulinum toxin] Kimura H, et al. **Nippon Ganka Gakkai Zasshi** 1996 Mar;100(3):213–8 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Untoward effects of esophageal botulinum toxin injection in the treatment of achalasia. Eaker EY, et al. **Dig Dis Sci** 1997 Apr;42(4):724–7

Sensitivity to vecuronium after botulinum toxin administration. Fiacchino F, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):149–53

[Current indications of botulinum toxin treatment] Aguilar-Barberà M, et al. **Rev Neurol** 1997 Feb; 25(138):270–4 (55 ref.) **(Spa)**

ANALYSIS

Detection and identification of Clostridium botulinum neurotoxins. Hatheway CL, et al. **Adv Exp Med Biol** 1996; 391:481–98 (75 ref.)

Detection of botulinum neurotoxins using optical fiber-based biosensor. Singh BR, et al. **Adv Exp Med Biol** 1996; 391:499–508

Rapid identification of Clostridium botulinum and botulinal toxin in food. Rodriguez A, et al. **Folia Microbiol (Praha)** 1997;42(2):149–51

Sodium nitrite and potassium nitrate in control of nonproteolytic Clostridium botulinum outgrowth and toxigenesis in vacuum-packed cold-smoked rainbow trout. Hyytiä E, et al. **Int J Food Microbiol** 1997 Jun 17; 37(1):63–72

Development of novel assays for botulinum type A and B neurotoxins based on their endopeptidase activities. Hallis B, et al. **J Clin Microbiol** 1996 Aug;34(8):1934–8

Refinement and validation of an alternative bioassay for potency testing of therapeutic botulinum type A toxin. Sesardic D, et al. **Pharmacol Toxicol** 1996 May;78(5):283–8

ANTAGONISTS & INHIBITORS

Protection by the heavy metal chelator N,N,N',N'-tetrakis (2-pyridylmethyl)ethylenediamine (TPEN) against the lethal action of botulinum neurotoxin A and B. Adler M, et al. **Toxicon** 1997 Jul;35(7):1089–100

Protonophore antagonism of botulinum toxin in mouse muscle. Sheridan RE. **Toxicon** 1996 Aug;34(8):849–55

CHEMISTRY

Tetanus and botulism neurotoxins: a novel group of zinc-endopeptidases. Tonello F, et al. **Adv Exp Med Biol** 1996;389:251–60 (47 ref.)

Predicting differential antigen-antibody contact regions based on solvent accessibility. Lebeda FJ, et al. **J Protein Chem** 1997 Aug;16(6):607–18

Structure and function of tetanus and botulinum neurotoxins. Montecucco C, et al. **Q Rev Biophys** 1995 Nov;28(4):423–72 (335 ref.)

Botulinum versus tetanus neurotoxins: why is botulinum neurotoxin but not tetanus neurotoxin a food poison? Singh BR, et al. **Toxicon** 1995 Dec;33(12):1541–7 (48 ref.)

GENETICS

Organization and nucleotide sequence of genes for hemagglutinin components of Clostridium botulinum type B progenitor toxin. Yang GH, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1141–6

Organization and phylogenetic interrelationships of genes encoding components of the botulinum toxin complex in proteolytic Clostridium botulinum types A, B, and F: evidence of chimeric sequences in the gene encoding the nontoxic nonhemagglutinin component. East AK, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):1105–12

Molecular detection of Clostridium botulinum type E neurotoxin gene in smoked fish by polymerase chain reaction and capillary electrophoresis. Sciacchitano CJ, et al. **J AOAC Int** 1996 Jul-Aug;79(4):861–5

HISTORY

Botulinum toxin: the story of its development for the treatment of human disease. Schantz EJ, et al. **Perspect Biol Med** 1997 Spring;40(3):317–27

IMMUNOLOGY

Epitope regions in the heavy chain of Clostridium botulinum type E neurotoxin recognized by monoclonal antibodies. Kubota T, et al. **Appl Environ Microbiol** 1997 Apr; 63(4):1214–8

Experience with the use of an investigational F(ab')2 heptavalent botulism immune globulin of equine origin during an outbreak of type E botulism in Egypt. Hibbs RG, et al. **Clin Infect Dis** 1996 Aug;23(2):337–40

Sensitive assay for measurement of antibodies to Clostridium botulinum neurotoxins A, B, and E: use of hapten-labeled-antibody elution to isolate specific complexes. Doellgast GJ, et al. **J Clin Microbiol** 1997 Mar; 35(3):578–83

Endogenous antibody production to botulinum toxin in an adult with intestinal colonization botulism and underlying Crohn's disease. Griffin PM, et al. **J Infect Dis** 1997 Mar; 175(3):633–7

ISOLATION & PURIFICATION

Four outbreaks of botulism in Ungava Bay, Nunavik, Quebec. Proulx JF, et al. **Can Commun Dis Rep** 1997 Feb 15; 23(4):30–2 **(Eng, Fre)**

METABOLISM

The interaction of synaptic vesicle-associated membrane protein/synaptobrevin with botulinum neurotoxins D and F. Pellizzari R, et al. **FEBS Lett** 1997 Jun 16;409(3):339–42

Cleavage of the synaptobrevin/vesicle-associated membrane protein (VAMP) of the mouse brain by the recombinant light chain of Clostridium botulinum type B toxin. Rhee SD, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):203–8

Expression of botulinum toxin binding sites in Xenopus oocytes. Bakry NM, et al. **Infect Immun** 1997 Jun; 65(6):2225–32

Binding of botulinum type B neurotoxin to Chinese hamster ovary cells transfected with rat synaptotagmin II cDNA. Nishiki T, et al. **Neurosci Lett** 1996 Apr 19;208(2):105–8

Gene probe-based detection of type E botulinum neurotoxin binding protein using polymerase chain reaction. Singh BR, et al. **Toxicon** 1996 Jul;34(7):737–42

PHARMACOKINETICS

Botulinum toxin treatment in the facial muscles of humans: evidence of an action in untreated near muscles by peripheral local diffusion. Eleopra R, et al. **Neurology** 1996 Apr;46(4):1158–60

PHARMACOLOGY

ADP-ribosylating and glucosylating toxins as tools to study secretion in RBL cells. Prepens U, et al. **Adv Exp Med Biol** 1997;419:349–53

Botulinum-induced muscle paralysis alters metabolic gene expression and fatigue recovery. Gorin F, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R238–45

Botulinum E toxin light chain does not cleave SNAP-23 and only partially impairs insulin stimulation of GLUT4 translocation in 3T3-L1 cells. Macaulay SL, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):388–93

Microinjection of ADP-ribosylated actin inhibits actin synthesis in hepatocyte-hepatoma hybrid cells. Reuner KH, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):843–9

Botulinum neurotoxin B inhibits insulin-stimulated glucose uptake into 3T3-L1 adipocytes and cleaves cellubrevin unlike type A toxin which failed to proteolyze the SNAP-23 present. Chen F, et al. **Biochemistry** 1997 May 13;36(19):5719–28

Importance of two adjacent C-terminal sequences of SNAP-25 in exocytosis from intact and permeabilized chromaffin cells revealed by inhibition with botulinum neurotoxins A and E. Lawrence GW, et al. **Biochemistry** 1997 Mar 18;36(11):3061–7

Influence of botulinum toxin injections on the sphincteric compound muscle action potential of the external anal sphincter [letter] Jost WH. **Dis Colon Rectum** 1997 Aug; 40(8):995–6

ADP-ribosylation of actins in fibroblasts and myofibroblasts by botulinum C2 toxin: influence on microfilament morphology and migratory behavior. Rønnov-Jessen L, et al. **Electrophoresis** 1996 Nov;17(11):1776–80

Distinct effects of clostridial toxins on activity-dependent modulation of autaptic responses in cultured hippocampal neurons. Owe-Larsson B, et al. **Eur J Neurosci** 1997 Aug; 9(8):1773–7

Regulation of motoneuronal calcitonin gene-related peptide (CGRP) during axonal growth and neuromuscular synaptic plasticity induced by botulinum toxin in rats. Tarabal O, et al. **Eur J Neurosci** 1996 Apr;8(4):829–36

Differential role of actin in lung endothelial and epithelial barrier properties in perfused rabbit lungs. Ermert L, et al. **Eur Respir J** 1996 Jan;9(1):93–9

Ultrastructural changes of lung capillary endothelium in response to botulinum C2 toxin. Ermert L, et al. **J Appl Physiol** 1997 Feb;82(2):382–8

Complex regulation of human neutrophil activation by actin filaments: dihydrocytochalasin B and botulinum C2 toxin uncover the existence of multiple cation entry pathways. Wenzel-Seifert K, et al. **J Leukoc Biol** 1997 Jun; 61(6):703–11

Inhibition of transmitter release correlates with the proteolytic activity of tetanus toxin and botulinus toxin A in individual cultured synapses of Hirudo medicinalis. Bruns D, et al. **J Neurosci** 1997 Mar 15;17(6):1898–910

Ca2+ or Sr2+ partially rescues synaptic transmission in hippocampal cultures treated with botulinum toxin A and C, but not tetanus toxin. Capogna M, et al. **J Neurosci** 1997 Oct 1;17(19):7190–202

In vitro characterization of botulinum toxin types A, C and D action on human tissues: combined electrophysiologic, pharmacologic and molecular biologic approaches. Coffield JA, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1489–98

Botulinum neurotoxins: mechanism of action and therapeutic applications. Montecucco C, et al. **Mol Med Today** 1996 Oct;2(10):418–24

Effects of Clostridium botulinum C2 toxin-induced depolymerisation of actin on degranulation of suspended and attached mast cells. Wex CB, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):319–27

Dose-dependent, central effects of botulinum neurotoxin type A: a pilot study in the alert behaving cat. Moreno-López B, et al. **Neurology** 1997 Feb;48(2):456–64

Botulinum neurotoxin serotype C: a novel effective botulinum toxin therapy in human. Eleopra R, et al. **Neurosci Lett** 1997 Mar 14;224(2):91–4

Botulinum toxin induces nitric oxide synthase activity in motoneurons. Mariotti R, et al. **Neurosci Lett** 1996 Nov 15;219(1):25–8

Refinement and validation of an alternative bioassay for potency testing of therapeutic botulinum type A toxin. Sesardic D, et al. **Pharmacol Toxicol** 1996 May;78(5):283–8

Kill or cure. Foster KA. **Trends Microbiol** 1996 Nov; 4(11):417–8

[Mode of action and effects of botulinum neurotoxin A] Périé S, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(2):73–8 (Eng. Abstr.) **(Fre)**

[Action mechanisms of botulinum neurotoxins and tetanus neurotoxins] Deloye F, et al. **C R Seances Soc Biol Fil** 1997;191(3):433–50 (85 ref.) (Eng. Abstr.) **(Fre)**

[Botulin toxin: principles of action and neurological indications] Diederich NJ, et al. **Presse Med** 1997 Feb 1; 26(2):96–100 (42 ref.) **(Fre)**

THERAPEUTIC USE

Review article: the use of botulinum toxin in the alimentary tract. Albanese A, et al. **Aliment Pharmacol Ther** 1995 Dec; 9(6):599–604 (20 ref.)

Therapeutic uses of botulinum toxin. Wheeler AH. **Am Fam Physician** 1997 Feb 1;55(2):541–5, 548 (13 ref.)

Gastrointestinal uses of botulinum toxin. Bhutani MS. **Am J Gastroenterol** 1997 Jun;92(6):929–33 (52 ref.)

Dysphagia from esophageal diverticulosis responding to botulinum toxin injection. DeVault KR. **Am J Gastroenterol** 1997 May;92(5):895–7

Botulinum toxin treatment of muscle cramps: a clinical and neurophysiological study. Bertolasi L, et al. **Ann Neurol** 1997 Feb;41(2):181–6

Approach to the treatment of limb disorders with botulinum toxin A. Experience with 187 patients. Pullman SL, et al. **Arch Neurol** 1996 Jul;53(7):617–24

The management of hyperfunctional facial lines with botulinum toxin. A collaborative study of 210 injection sites in 162 patients. Blitzer A, et al.

Arch Otolaryngol Head Neck Surg 1997 Apr;123(4):389–92

Botulinum toxin treatment of apraxia of eyelid opening in progressive supranuclear palsy: report of two cases. Piccione F, et al. **Arch Phys Med Rehabil** 1997 May; 78(5):525–9

Medical treatments for abnormal eye movements: pharmacological, optical and immunological strategies. Averbuch-Heller L, et al. **Aust N Z J Ophthalmol** 1997 Feb;25(1):7–13 (36 ref.)

Botulinum toxin does not reverse the cortical dysfunction associated with writer's cramp. A PET study. Ceballos-Baumann AO, et al. **Brain** 1997 Apr;120 (Pt 4):571–82

Long-latency reflexes of hand muscles in idiopathic focal dystonia and their modification by botulinum toxin. Naumann M, et al. **Brain** 1997 Mar;120 (Pt 3):409–16

Localizing muscles for botulinum toxin treatment of focal hand dystonia. Geenen C, et al. **Can J Neurol Sci** 1996 Aug;23(3):194–7

Automatic EMG-guided botulinum toxin treatment of spasticity. Finsterer J, et al. **Clin Neuropharmacol** 1997 Jun; 20(3):195–203

Intranasal neostigmine therapy of botulinum toxin (BTX) treatment dysphagia [letter] Marchini C. **Clin Neuropharmacol** 1997 Jun;20(3):279–80

Botulinum toxin in the treatment of writer's cramp. Turjanski N, et al. **Clin Neuropharmacol** 1996 Aug;19(4):314–20

An optical treatment for oscillopsia [letter] Rushton DN. **Clin Rehabil** 1997 Feb;11(1):80

Botulinum toxin A in the hemiplegic upper limb: a double-blind trial [see comments] Corry IS, et al. **Dev Med Child Neurol** 1997 Mar;39(3):185–93. Comment in: Dev Med Child Neurol 1997 Jul;39(7):491–2.

One hundred cases of anal fissure treated with botulin toxin: early and long-term results. Jost WH. **Dis Colon Rectum** 1997 Sep;40(9):1029–32

Botulinum toxin for refractory postoperative pyloric spasm. Wiesel PH, et al. **Endoscopy** 1997 Feb;29(2):132

Botulinum toxin A in non-dystonic tremors. Henderson JM, et al. **Eur Neurol** 1996;36(1):29–35

Long-term outcome of botulinum toxin in the treatment of achalasia [letter; comment] Birgisson S, et al. **Gastroenterology** 1996 Oct;111(4):1162–3. Comment on: Gastroenterology 1996 May;110(5):1410–5.

Perendoscopic injection of botulinum toxin is effective in achalasia after failure of myotomy or pneumatic dilation. Annese V, et al. **Gastrointest Endosc** 1996 Oct;44(4):461–5

Botulinum toxin injection for secondary achalasia with esophageal varices. Dufour JF, et al. **Gastrointest Endosc** 1997 Feb;45(2):191–3 (13 ref.)

Use of high-resolution endoscopic ultrasonography to assess esophageal wall damage after pneumatic dilation and botulinum toxin injection to treat achalasia. Schiano TD, et al. **Gastrointest Endosc** 1996 Aug;44(2):151–7

Frontalis suspension in the treatment of essential blepharospasm unresponsive to botulinum-toxin therapy: long-term results. Roggenkämper P, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Aug;235(8):486–9

Botulinum toxin injection for cervicogenic headache. Hobson DE, et al. **Headache** 1997 Apr;37(4):253–5

Cosmetic botulinum toxin injections. Carter SR, et al. **Int Ophthalmol Clin** 1997 Summer;37(3):69–79 (51 ref.)

The management of cerebral palsy: subjectivity and a conundrum [editorial] Bodensteiner JB. **J Child Neurol** 1996 Mar;11(2):75–76

Botulinum toxin in the therapy of gustatory sweating. Schulze-Bonhage A, et al. **J Neurol** 1996 Feb;243(2):143–6

Intrasphincteric injection of Botulinum toxin for treating achalasia in children [see comments] Khoshoo V, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):439–41. Comment in: J Pediatr Gastroenterol Nutr 1997 Apr;24(4):447–9.

Botulinum toxin for achalasia: are we witnessing the birth of a new era? [editorial; comment] Nurko S. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):447–9 (21 ref.) . Comment on: J Pediatr Gastroenterol Nutr 1997 Apr;24(4):439–41.

Automated analysis of electromyographic (EMG) recordings during botulinum injections. Hunter DG, et al. **J Pediatr Ophthalmol Strabismus** 1996 Sep–Oct;33(5):241–6

Preliminary experience with intrasphincteric botulinum toxin for persistent constipation after pull-through for Hirschsprung's disease. Langer JC, et al. **J Pediatr Surg** 1997 Jul;32(7):1059–61; discussion 1061–2

Botulinum toxin use in pediatric esophageal achalasia: a case report. Walton JM, et al. **J Pediatr Surg** 1997 Jun; 32(6):916–7

The management of chronic fissure in ano with botulinum toxin [letter; comment] Moore AP. **J R Coll Surg Edinb** 1997 Aug;42(4):289. Comment on: J R Coll Surg Edinb 1996 Aug;41(4):235–8.

The use of botulinum toxin for anal fissure [letter; comment] Parikh VA. **J R Coll Surg Edinb** 1997 Aug;42(4):288–9. Comment on: J R Coll Surg Edinb 1996 Aug;41(4):235–8.

The management of chronic fissure in ano with botulinum toxin [letter; comment] Wannas HR. **J R Coll Surg Edinb** 1997 Aug;42(4):289–90. Comment on: J R Coll Surg Edinb 1996 Aug;41(4):235–8.

Botulinum toxin increases tearing in patients with Sjögren's syndrome: a preliminary report. Spiera H, et al. **J Rheumatol** 1997 Sep;24(9):1842–3

Longitudinal phonatory characteristics after botulinum toxin type A injection. Fisher KV, et al. **J Speech Hear Res** 1996 Oct;39(5):968–80

Botulinum toxin: novel treatment for dramatic urethral dilatation associated with dysfunctional voiding. Steinhardt GF, et al. **J Urol** 1997 Jul;158(1):190–1

Adductor spasmodic dysphonia: case reports with acoustic analysis following botulinum toxin injection and acupuncture. Crevier-Buchman L, et al. **J Voice** 1997 Jun; 11(2):232–7

Analysis of factors affecting botulinum toxin results in spasmodic dysphonia. Inagi K, et al. **J Voice** 1996 Sep; 10(3):306–13

Botulinum toxin type A purified neurotoxin complex for the treatment of blepharospasm: a dose-response study measuring eyelid force. Iwashige H, et al. **Jpn J Ophthalmol** 1995;39(4):424–31

Treatment of vaginismus with botulinum toxin injections [letter] Brin MF, et al. **Lancet** 1997 Jan 25;349(9047):252–3

Treatment of chronic tennis elbow with botulinum toxin [letter] Morré HH, et al. **Lancet** 1997 Jun 14;349(9067):1746

Botulinum toxin for palmar hyperhidrosis [letter] [see comments] Naumann M, et al. **Lancet** 1997 Jan 25; 349(9047):252. Comment in: Lancet 1997 Mar 29;349(9056):953.

Uses of botulinum toxin [letter; comment] Schnider P, et al. **Lancet** 1997 Mar 29;349(9056):953. Comment on: Lancet 1997 Jan 25;349(9047):252.

Treatment of ventricular dysphonia with botulinum toxin. Kendall KA, et al. **Laryngoscope** 1997 Jul;107(7):948–53

Treatment of occupational cramp with botulinum toxin: diffusion of toxin to adjacent noninjected muscles. Ross MH, et al. **Muscle Nerve** 1997 May;20(5):593–8

Botulinum toxin versus trihexyphenidyl in cervical dystonia: a prospective, randomized, double-blind controlled trial. Brans JW, et al. **Neurology** 1996 Apr;46(4):1066–72

Botulinum toxin treatment in the facial muscles of humans: evidence of an action in untreated near muscles by peripheral local diffusion. Eleopra R, et al. **Neurology** 1996 Apr;46(4):1158–60

Botulinum toxin type B: a double-blind, placebo-controlled, safety and efficacy study in cervical dystonia. Lew MF, et al. **Neurology** 1997 Sep;49(3):701–7

Botulinum toxin in severe upper extremity spasticity among patients with traumatic brain injury: an open-labeled trial. Yablon SA, et al. **Neurology** 1996 Oct;47(4):939–44

Long-term changes in duration of relief with botulinum toxin treatment of essential blepharospasm and hemifacial spasm [see comments] Ainsworth JR, et al. **Ophthalmology** 1995 Dec;102(12):2036–40. Comment in: Ophthalmology 1996 Mar;103(3):348.

Blepharospasm and hemifacial spasm. Randomized trial to determine the most appropriate location for botulinum toxin injections. Price J, et al. **Ophthalmology** 1997 May; 104(5):865–8

Botulinum toxin as a therapeutic agent. Tsui JK. **Pharmacol Ther** 1996;72(1):13–24 (107 ref.)

Treatment of achalasia with botulinum toxin. López P, et al. **Rev Esp Enferm Dig** 1997 May;89(5):367–74 **(Eng, Spa)**

Tongue protrusion dystonia: treatment with botulinum toxin. Charles PD, et al. **South Med J** 1997 May;90(5):522–5

Botulinum-A toxin in the treatment of craniocervical muscle spasms: short- and long-term, local and systemic effects. Dutton JJ. **Surv Ophthalmol** 1996 Jul–Aug;41(1):51–65 (145 ref.)

New approaches to managing spasticity in children with cerebral palsy. Im D, et al. **West J Med** 1997 Apr;166(4):271

[Use of botulinum toxin in ophthalmology: current concepts and problems] Tapiero B, et al. **J Fr Ophtalmol** 1997; 20(2):134–45 (21 ref.) **(Fre)**

[Mechanism of action, clinical indication and results of treatment of botulinum toxin] Lagueny A, et al. **Neurophysiol Clin** 1996;26(4):216–26 (37 ref.) (Eng. Abstr.) **(Fre)**

[Botulinum toxin: use in a case of achalasia of the lower sphincter of esophagus (letter)] Perlemuter G, et al. **Presse Med** 1997 May 24;26(17):818 **(Fre)**

[Idiopathic focal dystonia of the foot in a 98-year-old-woman. Treatment with botulin toxin (letter)] Verlhac B, et al. **Presse Med** 1996 Dec 21;25(40):2042 **(Fre)**

[Treatment of spasticity with botulinum toxin and muscle afferent block] Kaji R, et al. **Rinsho Shinkeigaku** 1996 Dec; 36(12):1334–5 (Eng. Abstr.) **(Jpn)**

[Thought about an "expensive treatment" (letter)] Kerty E. **Tidsskr Nor Laegeforen** 1997 Apr 10;117(9):1335 **(Nor)**

[Botulin toxins in the treatment of spasmodic torticollis] Teixeira SC, et al. **Rev Assoc Med Bras** 1995 Nov-Dec; 41(6):406–10 (21 ref.) **(Por)**

[Blepharospasm: treatment with botulinum toxin] Barbosa ER, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Nov-Dec;51(6):220–3 (Eng. Abstr.) **(Por)**

[Botulinum A toxins in the treatment of spasticity in cerebral palsy during childhood] García Ruiz PJ, et al. **Neurologia** 1996 Jan;11(1):34–6 (Eng. Abstr.) **(Spa)**

[Botulinum toxin: clinical uses and anesthetic implications] Vidal-Marcos A, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):208–11 (52 ref.) (Eng. Abstr.) **(Spa)**

[Treatment of focal dystonia with botulinic toxin] Gracia F, et al. **Rev Med Panama** 1996 Sep;21(3):121–31 (Eng. Abstr.) **(Spa)**

[Current indications of botulinum toxin treatment] Aguilar-Barberà M, et al. **Rev Neurol** 1997 Feb; 25(138):270–4 (55 ref.) **(Spa)**

TOXICITY

Recovery of a strain of Clostridium botulinum producing both neurotoxin A and neurotoxin B from canned macrobiotic food. Franciosa G, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1148–50

Botulinum and tetanus neurotoxins: emerging tools for the study of membrane fusion. Jahn R, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:329–35 (66 ref.)

Expression of neurotransmitter genes in rat spinal motoneurons after chemodenervation with botulinum toxin. Jung HH, et al. **Neuroscience** 1997 May;78(2):469–79

Flaccid paralysis caused by botulinum toxin type B after pesto ingestion [letter] Chiorboli E, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):725–6

Structure and function of tetanus and botulinum neurotoxins. Montecucco C, et al. **Q Rev Biophys** 1995 Nov;28(4):423–72 (335 ref.)

BOTULISM

see related

BOTULINUM TOXINS

Botulinum neurotoxins: mechanism of action and therapeutic applications. Montecucco C, et al. **Mol Med Today** 1996 Oct;2(10):418–24

Infant botulism. Glatman-Freedman A. **Pediatr Rev** 1996 May;17(5):185–6

DIAGNOSIS

Application of nested polymerase chain reaction for the rapid diagnosis of infant botulism type B. Kakinuma H, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):346–8

Detection and identification of Clostridium botulinum neurotoxins. Hatheway CL, et al. **Adv Exp Med Biol** 1996; 391:481–98 (75 ref.)

Update: infant botulism. Midura TF. **Clin Microbiol Rev** 1996 Apr;9(2):119–25 (76 ref.)

Botulism with sensory symptoms diagnosed by neuromuscular transmission studies associated with edrophonium responsiveness. Kuruoğlu R, et al. **Electromyogr Clin Neurophysiol** 1996 Dec;36(8):477–80

Stimulated single-fiber electromyography in wound botulism. Mandler RN, et al. **Muscle Nerve** 1996 Sep; 19(9):1171–3

Adult botulism: difficulties in early electrodiagnostic studies [letter] Nogues MA, et al. **Muscle Nerve** 1997 Oct; 20(10):1331–2

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 22–1997. A 58-year-old woman with multiple cranial neuropathies [clinical conference] **N Engl J Med** 1997 Jul 17;337(3):184–90

[Importance of electromyography in the diagnosis of botulism] Zouari N, et al. **Neurophysiol Clin** 1997 Jun; 27(3):220–6 (Eng. Abstr.) **(Fre)**

[Botulism—case report of a familial outbreak] Milošević N. **Vojnosanit Pregl** 1997 May–Jun;54(3):273–6 **(Scr)**

DRUG THERAPY

Experience with the use of an investigational F(ab')2 heptavalent botulism immune globulin of equine origin during an outbreak of type E botulism in Egypt. Hibbs RG, et al. **Clin Infect Dis** 1996 Aug;23(2):337–40

[Activity of benzamide and it's derivatives against botulinum intoxication] Ugriumova GA, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):684–6 **(Rus)**

EPIDEMIOLOGY

Botulism Reference Service for Canada. Austin J, et al. **Can Commun Dis Rep** 1996 Nov 1;22(21):183–4 **(Eng, Fre)**

Four outbreaks of botulism in Ungava Bay, Nunavik, Quebec. Proulx JF, et al. **Can Commun Dis Rep** 1997 Feb 15; 23(4):30–2 **(Eng, Fre)**

Botulism surveillance and emergency response. A public health strategy for a global challenge. Shapiro RL, et al. **JAMA** 1997 Aug 6;278(5):433–5

Foodborne botulism in Italy [letter] Aureli P, et al. **Lancet** 1996 Dec 7;348(9041):1594

Food safety. Outbreak of botulism. **Wkly Epidemiol Rec** 1996 Dec 6;71(49):374–5 **(Eng, Fre)**

[Botulism in 1995] Przybylska A. **Przegl Epidemiol** 1997; 51(1–2):111–8 **(Pol)**

ETIOLOGY

Wound botulism associated with black tar heroin. Anderson MW, et al. **Acad Emerg Med** 1997 Aug;4(8):805–9

Generalised botulism-like syndrome after intramuscular injections of botulinum toxin type A: a report of two cases [letter] Bakheit AM, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):198

IMMUNOLOGY

Endogenous antibody production to botulinum toxin in an adult with intestinal colonization botulism and underlying Crohn's disease. Griffin PM, et al. **J Infect Dis** 1997 Mar; 175(3):633–7

BOTULISM

MICROBIOLOGY

The first case of type B infant botulism in Japan. Kakinuma H, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):541–3

Update: infant botulism. Midura TF. **Clin Microbiol Rev** 1996 Apr;9(2):119–25 (76 ref.)

Characterization of a neurotoxigenic Clostridium butyricum strain isolated from the food implicated in an outbreak of food–borne type E botulism. Meng X, et al. **J Clin Microbiol** 1997 Aug;35(8):2160–2

Emergence of Clostridium botulinum type B–like nontoxigenic organisms in a patient with type B infant botulism. Yamakawa K, et al. **J Clin Microbiol** 1997 Aug; 35(8):2163–4

PATHOLOGY

Cluster of wound botulism in California: clinical, electrophysiologic, and pathologic study. Maselli RA, et al. **Muscle Nerve** 1997 Oct;20(10):1284–95

PHYSIOPATHOLOGY

Cluster of wound botulism in California: clinical, electrophysiologic, and pathologic study. Maselli RA, et al. **Muscle Nerve** 1997 Oct;20(10):1284–95

Adult botulism. Shapiro BE, et al. **Muscle Nerve** 1997 Jan; 20(1):100–2

PREVENTION & CONTROL

The botulism hazard [letter; comment] Sacks HS. **Ann Intern Med** 1997 Jun 1;126(11):918–9. Comment on: Ann Intern Med 1996 Oct 1;125(7):558–63.

Preparation for emergency relief after biological warfare. Steffen R, et al. **J Infect** 1997 Mar;34(2):127–32

Botulism surveillance and emergency response. A public health strategy for a global challenge. Shapiro RL, et al. **JAMA** 1997 Aug 6;278(5):433–5

THERAPY

[Current approaches in the therapy of patients with severe forms of botulism] Nikiforov VV, et al. **Ter Arkh** 1995; 67(12):46–9 **(Rus)**

VETERINARY

An outbreak of botulism in a deer herd in Queensland. Chamberlain P, et al. **Aust Vet J** 1995 Nov;72(11):427–8

Investigation of animal botulism outbreaks by PCR and standard methods. Fach P, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):279–85

Bovine botulism in Paraguay. Brizuela CM. **Trop Anim Health Prod** 1996 Aug;28(3):221–2

Botulism. Whitlock RH, et ai. **Vet Clin North Am Equine Pract** 1997 Apr;13(1):107–28 (115 ref.)

Botulism outbreak associated with poultry litter consumption in three Brazilian cattle herds. Ortolani EL, et al. **Vet Hum Toxicol** 1997 Apr;39(2):89–92

Botulism in waterfowl. Bongers JH, et al. **Vet Q** 1996;18 Suppl 3:S156–7 (6 ref.)

Equine botulism [letter] Dyson S, et al. **Vet Rec** 1997 Jul 12;141(2):56

BOUILLAUD'S DISEASE see **RHEUMATIC HEART DISEASE**

BOULENGERINA see **COBRA**

BOURNEVILLE'S DISEASE see **TUBEROUS SCLEROSIS**

BOUTONNEUSE FEVER

Mediterranean spotted fever and arthritis: comment on the article by Sundy et al [letter; comment] Cobeta–García JC, et al. **Arthritis Rheum** 1996 Dec;39(12):2088. Comment on: Arthritis Rheum 1996 Jan;39(1):175–6.

[Occurrence of extracapillary glomerulonephritis during Mediterranean boutonneuse fever] Durrbach A, et al. **Nephrologie** 1996;17(6):333–6 (Eng. Abstr.) **(Fre)**

BLOOD

Plasma levels of tumor necrosis factor–alpha and interferon–gamma in Sicilian children with Mediterranean spotted fever. Cascio A, et al. **Int J Clin Lab Res** 1997; 27(2):135–8

COMPLICATIONS

Unusual case of pulmonary rickettsiosis in non–Hodgkin's lymphoma. Pugliese C, et al. **Minerva Med** 1997 Jun; 88(6):261–4

[Bilateral mixed hearing loss in Mediterranean boutonneuse fever, reversible without antibiotic treatment (letter)] De Celis G, et al. **An Med Interna** 1996 Feb;13(2):98–9 **(Spa)**

DIAGNOSIS

Mediterranean spotted fever mimicking Kawasaki disease. Jenkins DR, et al. **BMJ** 1997 Mar 1;314(7081):655–6

Ulceroglandular lymphadenopathy due to Rickettsia conorii in Italy [letter] Castagnola E, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):766–7 (5 ref.)

Use of enzyme–linked immunosorbent assay techniques with cross–reacting human sera in diagnosis of murine typhus and spotted fever. Keysary A, et al. **J Clin Microbiol** 1997 Apr;35(4):1034–5

Diagnosis of Mediterranean spotted fever by cultivation of Rickettsia conorii from blood and skin samples using the centrifugation–shell vial technique and by detection of R. conorii in circulating endothelial cells: a 6–year follow–up. La Scola B, et al. **J Clin Microbiol** 1996 Nov;34(11):2722–7

[A case from practice (358). Rickettsia coronii infection (Mediterranean spotted fever, boutonneuse fever)] Koch A, et al. **Schweiz Rundsch Med Prax** 1996 Oct 15; 85(42):1337–8 **(Ger)**

[The primary effect and characteristics of the course of a new tick–borne rickettsiosis––Astrakhan fever] Galimzianov KhM, et al. **Ter Arkh** 1996;68(4):77–9 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Azithromycin vs. doxycycline for Mediterranean spotted fever. Meloni G, et al. **Pediatr Infect Dis J** 1996 Nov; 15(11):1042–4

EPIDEMIOLOGY

Isolation of Rickettsia akari from a patient in a region where Mediterranean spotted fever is endemic. Radulovic S, et al. **Clin Infect Dis** 1996 Feb;22(2):216–20

ETHNOLOGY

Tick bite fever in black South Africans––a rare disease? Cohen GL, et al. **J Infect** 1996 May;32(3):235–7

IMMUNOLOGY

Release of soluble tumor necrosis factor receptors in Mediterranean spotted fever rickettsiosis. Kern WV, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):233–5

Depression of CD4 T cell subsets and alteration in cytokine profile in boutonneuse fever. Cillari E, et al. **J Infect Dis** 1996 Nov;174(5):1051–7

Alteration of interleukin–2 (IL–2) and soluble IL–2 receptor secretion in the sera and urine of patients with rickettsial boutonneuse fever. Mansueto S, et al. **J Infect Dis** 1997 Jan;175(1):142–5

MICROBIOLOGY

Diagnosis of Mediterranean spotted fever by cultivation of Rickettsia conorii from blood and skin samples using the centrifugation–shell vial technique and by detection of R. conorii in circulating endothelial cells: a 6–year follow–up. La Scola B, et al. **J Clin Microbiol** 1996 Nov;34(11):2722–7

[Astrakhan fever––a rickettsiosis of the tick–borne spotted fevers caused by a new pathovar of rickettsiae, Rickettsia conorii] Lukin EP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):96–9 (37 ref.) **(Rus)**

THERAPY

[Interferon efficacy in treating patients with Astrakhan fever] Galimzianov KhM, et al. **Ter Arkh** 1996;68(2):65–6 (Eng. Abstr.) **(Rus)**

TRANSMISSION

Oculoglandular syndrome in Mediterranean spotted fever acquired through the eye [letter] Pinna A, et al. **Br J Ophthalmol** 1997 Feb;81(2):172

BOVINE CORONAVIRUS see **CORONAVIRUS, BOVINE**

BOVINE DIARRHEA VIRUS see **DIARRHEA VIRUS, BOVINE VIRAL**

BOVINE EPHEMERAL FEVER VIRUS see **EPHEMERAL FEVER VIRUS, BOVINE**

BOVINE HERPES MAMMILLITIS VIRUS see **HERPESVIRUS 2, BOVINE**

BOVINE HERPESVIRUS 1 see **HERPESVIRUS 1, BOVINE**

BOVINE HERPESVIRUS 2 see **HERPESVIRUS 2, BOVINE**

BOVINE IMMUNODEFICIENCY–LIKE VIRUS see **IMMUNODEFICIENCY VIRUS, BOVINE**

BOVINE KUNITZ PANCREATIC TRYPSIN INHIBITOR see **APROTININ**

BOVINE LENTIVIRUSES see **LENTIVIRUSES, BOVINE**

BOVINE LEUKEMIA see **ENZOOTIC BOVINE LEUKOSIS**

BOVINE LEUKEMIA VIRUS see **LEUKEMIA VIRUS, BOVINE**

BOVINE LEUKOSIS see **ENZOOTIC BOVINE LEUKOSIS**

BOVINE LYMPHOMA see **ENZOOTIC BOVINE LEUKOSIS**

BOVINE LYMPHOSARCOMA see **ENZOOTIC BOVINE LEUKOSIS**

BOVINE PAPILLOMATOSIS VIRUS see **PAPILLOMAVIRUS, BOVINE**

BOVINE PAPULAR DERMATITIS VIRUS see **PAPILLOMAVIRUS, BOVINE**

BOVINE PARAINFLUENZA VIRUS 3 see **PARAMYXOVIRUS**

BOVINE PESTIVIRUS see **DIARRHEA VIRUS, BOVINE VIRAL**

BOVINE RESPIRATORY SYNCYTIAL VIRUS see **RESPIRATORY SYNCYTIAL VIRUS, BOVINE**

BOVINE SPONGIFORM ENCEPHALOPATHY see **ENCEPHALOPATHY, BOVINE SPONGIFORM**

BOVINE SYNCYTIAL VIRUS see **SPUMAVIRUS**

BOVINE ULCERATIVE MAMMILLITIS VIRUS see **HERPESVIRUS 2, BOVINE**

BOVINE VIRUS DIARRHEA–MUCOSAL DISEASE

COMPLICATIONS

Surveillance of cattle herds for bovine virus diarrhoea virus (BVDV)–infection using data on reproduction and calf mortality. Houe H, et al. **Arch Virol Suppl** 1991;3:157–64

Diaplacental infections with ruminant pestiviruses. Osburn BI, et al. **Arch Virol Suppl** 1991;3:71–8 (27 ref.)

Laminitis in young dairy calves fed a high starch diet and with a history of bovine viral diarrhoea virus infection. Svensson C, et al. **Vet Rec** 1997 May 31;140(22):574–7

[Diabetes mellitus in a cow persistently infected with bovine viral diarrhea virus] Bückner R. **Tierarztl Prax** 1997 Jul; 25(4):351–2 (Eng. Abstr.) **(Ger)**

[Chylothorax in a calf] Pusterla N, et al. **Tierarztl Prax** 1996 Dec;24(6):554–8 (Eng. Abstr.) **(Ger)**

CONGENITAL

Congenital curly haircoat as a symptom of persistent infection with bovine virus diarrhoea virus in calves. Larsson B, et al. **Arch Virol Suppl** 1991;3:143–8

DIAGNOSIS

Bovine viral diarrhea virus infection: rapid diagnosis by the polymerase chain reaction. Belák S, et al. **Arch Virol Suppl** 1991;3:181–90

Detection of persistent bovine viral diarrhea virus infections by DNA hybridization and polymerase chain reaction assay. Brock KV. **Arch Virol Suppl** 1991;3:199–208

Identification of cattle infected with bovine virus diarrhoea virus using a monoclonal antibody capture ELISA. Fenton A, et al. **Arch Virol Suppl** 1991;3:169–74

Congenital curly haircoat as a symptom of persistent infection with bovine virus diarrhoea virus in calves. Larsson B, et al. **Arch Virol Suppl** 1991;3:143–8

Identification and production of pestivirus proteins for diagnostic and vaccination purposes. Lecomte C, et al. **Arch Virol Suppl** 1991;3:149–56

Determination of level of antibodies to bovine virus diarrhoea virus (BVDV) in bulk tank milk as a tool in the diagnosis and prophylaxis of BVDV infections in dairy herds. Niskanen R, et al. **Arch Virol Suppl** 1991;3:245–51

Standardization of enzyme–linked immunosorbent assays (ELISAs) for quantitative estimation of antibodies specific for infectious bovine rhinotracheitis virus, respiratory syncytial virus, parainfluenza–3 virus, and bovine viral diarrhea virus. Graham DA, et al. **J Vet Diagn Invest** 1997 Jan;9(1):24–31

Distribution of cytopathic and noncytopathic bovine viral diarrhea virus antigens in tissues of calves following acute experimental infection. Spagnuolo–Weaver M, et al. **J Vet Diagn Invest** 1997 Jul;9(3):287–97

Immunohistochemical detection of bovine viral diarrhea virus in skin biopsies: a reliable and fast diagnostic tool. Thür B, et al. **Zentralbl Veterinarmed [B]** 1996 May; 43(3):163–6

[Quality management in the serodiagnosis of European swine fever: results of comparative tests] Müller T, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Mar;104(3):87–91 (Eng. Abstr.) **(Ger)**

[Comparison of different BVD virus strains for their use in the differential diagnosis of classical swine fever––an attempt to standardize neutralization tests] Müller T, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Mar;104(3):91–6 (Eng. Abstr.) **(Ger)**

[Immunohistology as a reliable and efficient method for the diagnosis of BVDV infections] Thür B, et al. **Schweiz Arch Tierheilkd** 1996;138(10):476–82 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Clinical and virological observations of a mucosal disease outbreak with persistently-infected seropositive survivors. Edwards S, et al. **Arch Virol Suppl** 1991;3:125-32

The use of a mass-action model to validate the output from a stochastic simulation model of bovine viral diarrhoea virus spread in a closed dairy herd. Innocent G, et al. **Prev Vet Med** 1997 Aug;31(3-4):199-209

[Epidemiologic studies of the occurrence of bovine virus diarrhea/mucosal disease in 2892 cattle in 95 dairy farms] Braun U, et al. **Schweiz Arch Tierheilkd** 1997;139(4):172-6 (Eng. Abstr.) **(Ger)**

ETIOLOGY

The pathways for bovine virus diarrhoea virus biotypes in the pathogenesis of disease. Brownlie J. **Arch Virol Suppl** 1991;3:79-96 (79 ref.)

A study of some pathogenetic aspects of bovine viral diarrhea virus infection. Castrucci G, et al. **Arch Virol Suppl** 1991; 3:101-8

IMMUNOLOGY

Establishment of serial persistent infections with bovine viral diarrhoea virus in cattle and sheep and changes in epitope expression related to host species. Paton D, et al. **Arch Virol** 1997;142(5):929-38

A computer simulation of the transmission dynamics and the effects of duration of immunity and survival of persistently infected animals on the spread of bovine viral diarrhoea virus in dairy cattle. Innocent G, et al. **Epidemiol Infect** 1997 Aug;119(1):91-100

Experimental mucosal disease in cattle: changes in the number of lymphocytes and plasma cells in the mucosa of the small and large intestine. Liebler EM, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1-3):93-105

MORTALITY

Losses over a 2-year period associated with fetal infection with the bovine viral diarrhea virus in a beef cow-calf herd in Saskatchewan. Taylor LF, et al. **Can Vet J** 1997 Jan;38(1):23-8

Performance, survival, necropsy, and virological findings from calves persistently infected with the bovine viral diarrhea virus originating from a single Saskatchewan beef herd. Taylor LF, et al. **Can Vet J** 1997 Jan;38(1):29-37

PATHOLOGY

Distribution of antigen of noncytopathogenic and cytopathogenic bovine virus diarrhea virus biotypes in the intestinal tract of calves following experimental production of mucosal disease. Liebler EM, et al. **Arch Virol Suppl** 1991;3:109-24

Lesions in aborted bovine fetuses and placenta associated with bovine viral diarrhoea virus infection. Murray RD. **Arch Virol Suppl** 1991;3:217-24

Performance, survival, necropsy, and virological findings from calves persistently infected with the bovine viral diarrhea virus originating from a single Saskatchewan beef herd. Taylor LF, et al. **Can Vet J** 1997 Jan;38(1):29-37

[Bovine virus diarrhea/mucosal disease in cattle--clinical findings in 103 calves and cattle] Braun U, et al. **Schweiz Arch Tierheilkd** 1996;138(10):465-75 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Glycoprotein E2 of bovine viral diarrhea virus expressed in insect cells provides calves limited protection from systemic infection and disease. Bolin SR, et al. **Arch Virol** 1996;141(8):1463-77

A survey of vaccination practices against bovine viral diarrhea (BVD) virus in Saskatchewan dairy herds. Carruthers TD, et al. **Can Vet J** 1996 Oct;37(10):621-2

Immune response to vaccination with DNA encoding the bovine viral diarrhea virus major glycoprotein gp53 (E2). Harpin S, et al. **FEMS Microbiol Lett** 1997 Jan 15; 146(2):229-34

Continued BVDV education needed [letter; comment] Bezek D. **J Am Vet Med Assoc** 1997 Jan 15;210(2):167. Comment on: J Am Vet Med Assoc 1996 Nov 1;209(9):1618-22.

Evaluation of the results of a survey of dairy producers on dairy herd biosecurity and vaccination against bovine viral diarrhea [see comments] Rauff Y, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1618-22. Comment in: J Am Vet Med Assoc 1997 Jan 15;210(2):167.

Fetal infection may not be preventable with BVDV vaccines [letter] Van Campen H, et al. **J Am Vet Med Assoc** 1997 Feb 15;210(4):480

Antigenically different pestivirus strains induce congenital infection in sheep: a model for bovine virus diarrhea virus vaccine efficacy studies. Bruschke CJ, et al. **Vet Microbiol** 1996 May;50(1-2):33-43

TRANSMISSION

BVD-virus infection in goats-experimental studies on transplacental transmissibility of the virus and its effect on reproduction. Depner K, et al. **Arch Virol Suppl** 1991; 3:253-6

A computer simulation of the transmission dynamics and the effects of duration of immunity and survival of persistently infected animals on the spread of bovine viral diarrhoea virus in dairy cattle. Innocent G, et al. **Epidemiol Infect** 1997 Aug;119(1):91-100

Insemination of cattle with semen from a bull transiently infected with pestivirus. Kirkland PD, et al. **Vet Rec** 1997 Feb 1;140(5):124-7

[Serological investigations in the diagnosis of viral infections derived from cattle in sheep] Bechmann G. **DTW Dtsch Tierarztl Wochenschr** 1997 Aug;104(8):321-4 (Eng. Abstr.) **(Ger)**

VIROLOGY

The development of early vs. late onset mucosal disease is a consequence of two different pathogenic mechanisms. Fritzemeier J, et al. **Arch Virol** 1997;142(7):1335-50

Distribution of cytopathogenic and noncytopathogenic bovine virus diarrhea virus in tissues from a calf with experimentally induced mucosal disease using antigenic and genetic markers. Greiser-Wilke I, et al. **Arch Virol Suppl** 1993;7:295-302

Antigenic variation among bovine viral diarrhea virus (BVDV) strains and the role of different cell fixation methods in immunoassays. Elahi SM, et al. **Can J Vet Res** 1997 Jan;61(1):34-8

Bovine viral diarrhoea virus infection in bone marrow of experimentally infected calves. Spagnuolo M, et al. **J Comp Pathol** 1997 Jan;116(1):97-100

Characterization of RNA synthesis during a one-step growth curve and of the replication mechanism of bovine viral diarrhoea virus. Gong Y, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2729-36

Comparative study on four enzyme-linked immunosorbent assays and a cocultivation assay for the detection of antigens associated with the bovine viral diarrhoea virus in persistently infected cattle. Brinkhof J, et al. **Vet Microbiol** 1996 May;50(1-2):1-6

Antigenically different pestivirus strains induce congenital infection in sheep: a model for bovine virus diarrhea virus vaccine efficacy studies. Bruschke CJ, et al. **Vet Microbiol** 1996 May;50(1-2):33-43

BOVINE WART VIRUS see **PAPILLOMAVIRUS, BOVINE**

BOWEN'S DISEASE

COMPLICATIONS

Perianal Bowen's disease: associated tumors, human papillomavirus, surgery, and other controversies. Sarmiento JM, et al. **Dis Colon Rectum** 1997 Aug; 40(8):912-8

Merkel cell carcinoma and multiple Bowen's disease: incidental association or possible relationship to inorganic arsenic exposure? Ohnishi Y, et al. **J Dermatol** 1997 May; 24(5):310-6

DIAGNOSIS

Bowenoid epidermotropic metastatic squamous cell carcinoma. Ihm CW, et al. **J Cutan Pathol** 1996 Oct; 23(5):479-84

DRUG THERAPY

Treatment of multiple lesions of Bowen disease with isotretinoin and interferon alfa. Efficacy of combination chemotherapy. Gordon KB, et al. **Arch Dermatol** 1997 Jun; 133(6):691-3

Large patches of Bowen's disease treated by topical aminolaevulinic acid photodynamic therapy. Stables GI, et al. **Br J Dermatol** 1997 Jun;136(6):957-60

5-fluorouracil iontophoretic therapy for Bowen's disease. Welch ML, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):956-8

EPIDEMIOLOGY

Bowen's disease: statistical study of a 10 year period. Kovács A, et al. **J Dermatol** 1996 Apr;23(4):267-74

ETIOLOGY

Malignancy arising in seborrheic keratosis: a report of two cases. Yap WM, et al. **Ann Acad Med Singapore** 1997 Mar; 26(2):235-7 (15 ref.)

Bowen's disease and arsenism from tobacco smoke: an association? Person JR. **Cutis** 1996 Jul;58(1):65-6 (17 ref.)

The inhibitory effect of UVB irradiation on the expression of p53 and Ki-67 proteins in arsenic-induced Bowen's disease. Chai CY, et al. **J Cutan Pathol** 1997 Jan;24(1):8-13

GENETICS

Chromosome 11 abnormalities in Bowen disease of the vulva. Swanson GP, et al. **Cancer Genet Cytogenet** 1997 Feb; 93(2):109-14

p53 mutation spectrum in Japanese Bowen's disease suggests a role for mutagens other than ultraviolet light. Takata M, et al. **Int J Cancer** 1997 May 2;71(3):370-2

Spontaneous and induced sister chromatid exchanges and delayed cell proliferation in peripheral lymphocytes of Bowen's disease patients and matched controls of arseniasis-hyperendemic villages in Taiwan. Hsu YH, et al. **Mutat Res** 1997 Jun;386(3):241-51

METABOLISM

p53 expression and proliferative activity in Bowen's disease with or without chronic arsenic exposure. Kuo TT, et al. **Hum Pathol** 1997 Jul;28(7):786-90

PATHOLOGY

Bowenoid papulosis of the penis. Bhojwani A, et al. **Br J Urol** 1997 Sep;80(3):508

Comparative aspects of nonmelanoma skin cancer. Walder EJ. **Clin Dermatol** 1995 Nov-Dec;13(6):569-78 (21 ref.)

Significance of mitotic cells or clumping cells in p53 immunopositivity of Bowen's disease [letter] Ura H, et al. **Dermatology** 1997;194(1):87-8

Metastatic squamous cell carcinoma arising in Bowen's disease of the palm. González-Pérez R, et al. **J Am Acad Dermatol** 1997 Apr;36(4):635-6

Bowenoid epidermotropic metastatic squamous cell carcinoma. Ihm CW, et al. **J Cutan Pathol** 1996 Oct; 23(5):479-84

Expression of E-cadherin in skin carcinomas. Tada H, et al. **J Dermatol** 1996 Feb;23(2):104-10

Pseudobowenoid change of the vulva: a histologic variant of untreated condylata acuminatum [see comments] [corrected] [published erratum appears in Mod Pathol 1996 Jul;9(7):803] Nucci MR, et al. **Mod Pathol** 1996 Apr; 9(4):375-9. Comment in: Mod Pathol 1996 Aug;9(8):870-1. Comment in: Mod Pathol 1996 Aug;9(8):871.

RADIOTHERAPY

Radionuclide therapy of skin cancers and Bowen's disease using a specially designed skin patch. Lee JD, et al. **J Nucl Med** 1997 May;38(5):697-702

SECONDARY

Intraepithelial sebaceous neoplasia invading the lacrimal gland [letter] Mooy CM. **Br J Ophthalmol** 1997 Jul; 81(7):612-3

SURGERY

Use of a paper pattern for scrotal skin replacement [letter] Ueda K, et al. **Plast Reconstr Surg** 1997 Mar;99(3):916-7

[11 cases of anal Bowen's disease] Kreyden OP, et al. **Schweiz Med Wochenschr** 1996 Sep 7;126(36):1536-40 (Eng. Abstr.) **(Ger)**

THERAPY

Comparison of photodynamic therapy with cryotherapy in the treatment of Bowen's disease. Morton CA, et al. **Br J Dermatol** 1996 Nov;135(5):766-71

The inhibitory effect of UVB irradiation on the expression of p53 and Ki-67 proteins in arsenic-induced Bowen's disease. Chai CY, et al. **J Cutan Pathol** 1997 Jan;24(1):8-13

[Partner treatment in Bowen's papulosis?] Grussendorf-Conen EI. **Hautarzt** 1996 Oct;47(10):790 **(Ger)**

VIROLOGY

Failure to demonstrate human papillomavirus (HPV) involvement in Bowen's disease of the skin. Lu S, et al. **Arch Dermatol Res** 1996 Dec;289(1):40-5

DNA analysis indicates patient-specific human papillomavirus type 16 strains in Bowen's disease on fingers and in archival samples from genital dysplasia. Forslund O, et al. **Br J Dermatol** 1997 May;136(5):678-82

Human herpesvirus 8 DNA is rarely found in Bowen's disease of non-immunosuppressed patients [letter] Mitsuishi T, et al. **Br J Dermatol** 1997 May;136(5):803-4

The presence of mucosal human papillomavirus in Bowen's disease of the hands. Mitsuishi T, et al. **Cancer** 1997 May 15;79(10):1911-7

The role of papillomaviruses in human non-melanoma skin cancer. McGregor JM, et al. **Cancer Surv** 1996;26:219-36 (94 ref.)

BOWMAN-BIRK SOYBEAN TRYPSIN INHIBITOR see **TRYPSIN INHIBITOR, BOWMAN-BIRK SOYBEAN**

BOXING

Cervical spine injury in a boxer: should mandatory screening be instituted? Place HM, et al. **J Spinal Disord** 1996 Feb; 9(1):64-7

Comparative investigation of neurofibrillary damage in the temporal lobe in Alzheimer's disease, Down's syndrome and dementia pugilistica. McKenzie JE, et al. **Neurodegeneration** 1996 Sep;5(3):259-64

Neurofibrillary tangles, but not Alzheimer-type pathology, in a young boxer. Geddes JF, et al. **Neuropathol Appl Neurobiol** 1996 Feb;22(1):12-6

Participation in boxing by children, adolescents, and young adults. American Academy of Pediatrics Committee on Sports Medicine and Fitness. **Pediatrics** 1997 Jan; 99(1):134-5

Effects of meal frequency on body composition during weight control in boxers. Iwao S, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):265-72

INJURIES

Boxing and the eyes: morphological aspects of the ocular

system in boxers. Vadalà G, et al. **Eur J Ophthalmol** 1997 Apr-Jun;7(2):174-80

A laser microprobe mass analysis of brain aluminum and iron in dementia pugilistica: comparison with Alzheimer's disease. Bouras C, et al. **Eur Neurol** 1997;38(1):53-8

Apolipoprotein E epsilon4 associated with chronic traumatic brain injury in boxing. Jordan BD, et al. **JAMA** 1997 Jul 9;278(2):136-40

[Present views on boxing--Henner's legacy] Tichý J. **Cas Lek Cesk** 1997 May 29;136(11):352-5 (Eng. Abstr.) **(Cze)**

[Fights to live, fights to die (editorial)] Bellotti P. **Recenti Prog Med** 1996 Dec;87(12):575 **(Ita)**

[Acute subdural hematoma caused by professional boxing] Sawauchi S, et al. **No Shinkei Geka** 1996 Oct;24(10):905-11 (Eng. Abstr.) **(Jpn)**

LEGISLATION & JURISPRUDENCE

MPs would ban all that harms--except boxing [news] Warden J. **BMJ** 1996 Nov 9;313(7066):1168

BPTI, BASIC PANCREATIC TRYPSIN INHIBITOR see **APROTININ**

BRACES

The effect of soft cervical collars on persistent neck pain in patients with whiplash injury [see comments] Gennis P, et al. **Acad Emerg Med** 1996 Jun;3(6):568-73. Comment in: Acad Emerg Med 1996 Jun;3(6):563-4.

Research can be a pain in the neck [editorial; comment] Levitt MA. **Acad Emerg Med** 1996 Jun;3(6):563-4. Comment on: Acad Emerg Med 1996 Jun;3(6):568-73.

The role of the knee brace in the prevention of anterior knee pain syndrome. BenGal S, et al. **Am J Sports Med** 1997 Jan-Feb;25(1):118-22

The effect of functional knee bracing on the anterior cruciate ligament in the weightbearing and nonweightbearing knee. Beynnon BD, et al. **Am J Sports Med** 1997 May-Jun; 25(3):353-9

The effect of a wrist brace on injury patterns in experimentally produced distal radial fractures in a cadaveric model. Moore MS, et al. **Am J Sports Med** 1997 May-Jun;25(3):394-401

The effect of a pneumatic leg brace on return to play in athletes with tibial stress fractures. Swenson EJ Jr, et al. **Am J Sports Med** 1997 May-Jun;25(3):322-8

Anterior cruciate ligament functional brace use in sports. Wojtys EM, et al. **Am J Sports Med** 1996 Jul-Aug; 24(4):539-46

Role of ankle taping and bracing in the athlete. Callaghan MJ. **Br J Sports Med** 1997 Jun;31(2):102-8 (64 ref.)

Functional knee braces and dynamic performance: a review. Kramer JF, et al. **Clin J Sport Med** 1997 Jan;7(1):32-9 (17 ref.)

A normal congruence (Q angle) [letter; comment] Grelsamer RP. **Clin Orthop** 1997 Aug;(341):286. Comment on: Clin Orthop 1996 Mar;(324):187-95.

A comparison study of plantar foot pressure in a standardized shoe, total contact cast, and prefabricated pneumatic walking brace. Baumhauer JF, et al. **Foot Ankle Int** 1997 Jan;18(1):26-33

Stable lateral malleolar fractures treated with aircast ankle brace and DonJoy R.O.M.-Walker brace: a prospective randomized study. Brink O, et al. **Foot Ankle Int** 1996 Nov; 17(11):679-84

Nonoperative management of posterior tibial tendon dysfunction [letter; comment] Lynn MD. **Foot Ankle Int** 1997 Jul;18(7):457-8. Comment on: Foot Ankle Int 1996 Dec;17(12):736-41.

A new functional brace for the treatment of Colles' fractures [letter] Moiz M. **Injury** 1996 Dec;27(10):756

Ankle bracing in running: the effect of a Push type medium ankle brace upon movements of the foot and ankle during the stance phase. De Clercq DL. **Int J Sports Med** 1997 Apr;18(3):222-8

Use of the Milwaukee brace for progressive idiopathic scoliosis [letter; comment] Bunch WH. **J Bone Joint Surg Am** 1997 Jun;79(6):954; discussion 954-5 . Comment on: J Bone Joint Surg Am 1996 Apr;78(4):557-67.

Use of the Milwaukee brace for progressive idiopathic scoliosis [letter; comment] Winter RB, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):954; discussion 954-5 . Comment on: J Bone Joint Surg Am 1996 Apr;78(4):557-67.

Neoprene wrist brace for correction of radial club hand in children. Kennedy SM. **J Hand Ther** 1996 Oct-Dec; 9(4):387-90

Fracture bracing for proximal phalanx fractures. Oxford KL, et al. **J Hand Ther** 1996 Oct-Dec;9(4):404-5

Functional treatment of humeral shaft fractures: indications and results. Wallny T, et al. **J Orthop Trauma** 1997 May; 11(4):283-7

Progression of scoliosis [letter; comment] Galasko CS. **J Pediatr Orthop** 1997 May-Jun;17(3):407. Comment on: J Pediatr Orthop 1996 May-Jun;16(3):332-5.

Use of an extension-assisting brace following anterior cruciate ligament reconstruction. Feller J, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):6-9

Knee brace after bone-tendon-bone anterior cruciate ligament reconstruction. Randomized, prospective study with 2-year follow-up. Harilainen A, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):10-3

Short-term effects of bracing on exercise performance in mild idiopathic thoracic scoliosis. Ferrari K, et al. **Lung** 1997; 175(5):299-310

Weighing the evidence. Lund K, et al. **Occup Health Saf** 1994 Nov;63(11):33-5

Functional outcome of thoracolumbar burst fractures managed with hyperextension casting or bracing and early mobilization [see comments] Chow GH, et al. **Spine** 1996 Sep 15;21(18):2170-5. Comment in: Spine 1997 Jun 15;22(12):1421-2.

A comparison between the Boston brace and the Charleston bending brace in adolescent idiopathic scoliosis. Katz DE, et al. **Spine** 1997 Jun 15;22(12):1302-12

Long-term alterations of respiratory function in adolescents wearing a brace for idiopathic scoliosis. Korovessis P, et al. **Spine** 1996 Sep 1;21(17):1979-84

Functional outcome of thoracolumbar burst fractures managed with hyperextension casting or bracing and early mobilization [letter; comment] Mirza SK, et al. **Spine** 1997 Jun 15;22(12):1421-2. Comment on: Spine 1996 Sep 15;21(18):2170-5.

Long-lasting cervical radicular pain managed with surgery, physiotherapy, or a cervical collar. A prospective, randomized study. Persson LC, et al. **Spine** 1997 Apr 1; 22(7):751-8

The treatment of progressive kyphoscoliosis in camptomelic dysplasia. Thomas S, et al. **Spine** 1997 Jun 15;22(12):1330-7

Clinical, radiographic, and kinematic results from an adjustable four-pad halovest. Tomonaga T, et al. **Spine** 1997 Jun 1;22(11):1199-208

[A study of biomechanical coupling between spine and rib cage in the treatment by orthosis of scoliosis] Aubin CE, et al. **Ann Chir** 1996;50(8):641-50 (Eng. Abstr.) **(Fre)**

[Effect of external stabilizing agents of the ankle joint on sports motor capacities in one legged jumping] Jerosch J, et al. **Sportverletz Sportschaden** 1997 Mar;11(1):27-32 (Eng. Abstr.) **(Ger)**

[Effectiveness of outer stability aids on rotational stability of the ankle joints] Müller CC, et al. **Sportverletz Sportschaden** 1996 Dec;10(4):84-7 (Eng. Abstr.) **(Ger)**

[Functional therapy using a laced ankle brace in supination trauma of the ankle joint with lesions of the capsule-ligament apparatus] Els M, et al. **Swiss Surg** 1996; 2(6):280-3 (Eng. Abstr.) **(Ger)**

[Functional fracture treatment of the upper arm] Goldhahn S, et al. **Unfallchirurgie** 1996 Oct;22(5):209-15 (Eng. Abstr.) **(Ger)**

[Indications for braces and surgery in scoliosis] Rüdiger F, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep-Oct;134(5):Oa12, Oa14 **(Ger)**

ADVERSE EFFECTS

Contact dermatitis from diphenylthiourea in a knee brace. Villarreal Balza de Vallejo O. **Contact Dermatitis** 1997 Mar; 36(3):166-7

Vertical transmission of the hip rolls due to wearing of TLSO for scoliosis. Korovessis P, et al. **J Spinal Disord** 1996 Aug; 9(4):326-33

STANDARDS

Do wrist guards protect against fractures? Lewis LM, et al. **Ann Emerg Med** 1997 Jun;29(6):766-9

Generation II knee bracing for severe medial compartment osteoarthritis of the knee. Matsuno H, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):745-9

Comparative study of conventional hip-knee-ankle-foot orthoses versus reciprocating-gait orthoses for children with high-level paraparesis. Katz DE, et al. **J Pediatr Orthop** 1997 May-Jun;17(3):377-86

Reduction of angulated metacarpal fractures with a custom fracture-brace. Jones AR. **J South Orthop Assoc** 1995 Winter;4(4):269-76

UTILIZATION

The use of long leg calipers for paraplegic patients: a follow-up study of patients discharged 1973-82. Hawran S, et al. **Spinal Cord** 1996 Nov;34(11):666-8

BRACHIAL ARTERY

Brachial artery catheterisation in paediatric intensive care [letter] Nichani S, et al. **Anaesthesia** 1997 Jun;52(6):608-9

Brachial artery access for percutaneous renal artery interventions. Kaukanen ET, et al. **Cardiovasc Intervent Radiol** 1997 Sep-Oct;20(5):353-8

Frequency of a positive modified Allen's test in 1,000 consecutive patients undergoing cardiac catheterization. Benit E, et al. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):352-4

Brachial artery approach for transluminal angioplasty of the internal carotid artery. Sievert H, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):421-3

Aggressive management of intra-arterial Temazepam injection. Russell ID, et al. **J R Army Med Corps** 1994 Jun;140(2):93-4

Pseudoaneurysm of the brachial artery from blunt trauma. Crawford DL, et al. **J Trauma** 1997 Feb;42(2):327-9

Thrombosis of the brachial artery in a foal. Triplett EA, et al. **J Vet Intern Med** 1996 Sep-Oct;10(5):330-2

False aneurysm with median nerve palsy after iatrogenic brachial artery puncture. Yip KM, et al. **Postgrad Med J** 1997 Jan;73(855):43-4

Unusual pseudoaneurysms after catheterization: successful treatment by ultrasound-guided compression. Do DD, et al. **Ultrasound Med Biol** 1997;23(3):377-80

[Paresthesia, pain, coldness of the arm and possible responsibility of the thoraco-brachial outlet syndrome] Baste JC, et al. **J Mal Vasc** 1996;21(5):329-32; discussion 333 (Eng. Abstr.) **(Fre)**

ABNORMALITIES

High brachial artery bifurcation: a report of 2 cases. Celik HH, et al. **Bull Assoc Anat (Nancy)** 1996 Sep;80(250):13-4

Rare case of high origin of the ulnar artery from the brachial artery. Aharinejad S, et al. **Clin Anat** 1997;10(4):253-8

Superficial brachial artery continuing as the common interosseous artery [letter] Nakatani T, et al. **J Anat** 1997 Jul;191 (Pt 1):155-7

A rare case: the medical cord of the brachial plexus sandwiched between the axillary and superficial brachial arteries. Nakatani T, et al. **Kaibogaku Zasshi** 1997 Apr; 72(2):151-4

Superficial brachial arteries observed in bilateral arms. Nakatani T, et al. **Kaibogaku Zasshi** 1996 Aug;71(4):308-12

A complicated variation of the upper extremity vascularisation. Sargon MF, et al. **Kaibogaku Zasshi** 1996 Jun;71(3):211-4

ANATOMY & HISTOLOGY

An anatomical study on the forearm vascular system. Shima H, et al. **J Craniomaxillofac Surg** 1996 Oct;24(5):293-9

DRUG EFFECTS

Comparison of stellate ganglion block with intravascular infusion of prostaglandin E1 on brachial artery blood flow in dogs. Okuda Y, et al. **Anesth Analg** 1997 Jun; 84(6):1329-32

Cholesterol lowering therapy inhibits the low-flow mediated vasoconstriction of the brachial artery in hypercholesterolaemic subjects. Megnien JL, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):187-93

Vasodilator effects of endothelin-converting enzyme inhibition and endothelin ETA receptor blockade in chronic heart failure patients treated with ACE inhibitors. Love MP, et al. **Circulation** 1996 Nov 1;94(9):2131-7

Lack of correlation between arterial and venous beta-adrenergic receptor sensitivity. Stein CM, et al. **Hypertension** 1997 Jun;29(6):1273-7

Hydrochlorothiazide exerts no direct vasoactivity in the human forearm. Pickkers P, et al. **J Hypertens** 1995 Dec; 13(12 Pt 2):1833-6

INJURIES

Transbrachial arteriography [letter; comment] Raphael MJ. **Clin Radiol** 1996 Oct;51(10):742. Comment on: Clin Radiol 1996 Mar;51(3):205-9.

False aneurysm and brachial plexus palsy complicating a proximal humeral exostosis. Gerrand CH. **J Hand Surg [Br]** 1997 Jun;22(3):413-5

Pulseless arm in association with totally displaced supracondylar fracture. Schoenecker PL, et al. **J Orthop Trauma** 1996;10(6):410-5

Pseudoaneurysm formation is a known complication of both arterial manipulations and arterial injuries [letter] Tekinalp H, et al. **J Pediatr Surg** 1996 Aug;31(8):1197

False aneurysm of the brachial artery in an infant following attempted venipuncture. Demircin M, et al. **Turk J Pediatr** 1996 Jul-Sep;38(3):389-91

PATHOLOGY

Endothelial dysfunction of conduit arteries in insulin-dependent diabetes mellitus without microalbuminuria. Lekakis J, et al. **Cardiovasc Res** 1997 Apr;34(1):164-8

Atherosclerosis in the human brachial artery. Sorensen KE, et al. **J Am Coll Cardiol** 1997 Feb;29(2):318-22

PHYSIOLOGY

Comparison of two techniques for determining the presence of a pulse in an infant [letter] Whitelaw CC, et al. **Acad Emerg Med** 1997 Feb;4(2):153-4

Brachial arterial blood flow during static handgrip exercise of short duration at varying intensities studied by a Doppler ultrasound method. Kagaya A, et al. **Acta Physiol Scand** 1997 Jul;160(3):257-65

Models of brachial to finger pulse wave distortion and pressure decrement. Gizdulich P, et al. **Cardiovasc Res** 1997 Mar;33(3):698-705

Time course of brachial artery diameter responses to rhythmic handgrip exercise in humans. Shoemaker JK, et al. **Cardiovasc Res** 1997 Jul;35(1):125-31

Evaluation of non-invasive techniques to assess vasoconstriction in healthy volunteers using methoxamine as a probe drug. Dixon RM, et al. **Cephalalgia** 1996 Nov; 16(7):507-17

Contribution of collagen, elastin, and smooth muscle to in vivo human brachial artery wall stress and elastic modulus.

Bank AJ, et al. **Circulation** 1996 Dec 15;94(12):3263–70

Reconstruction of brachial artery pressure from noninvasive finger pressure measurements. Bos WJ, et al. **Circulation** 1996 Oct 15;94(8):1870–5

Modulation of endothelium-dependent, flow-mediated dilatation of the brachial artery by sex and menstrual cycle [letter; comment] Lambert J, et al. **Circulation** 1996 Nov 1;94(9):2319–20. Comment on: Circulation 1995 Dec 15;92(12):3431–5.

The nature and importance of changes in toe–brachial pressure indices following percutaneous transluminal angioplasty for leg ischaemia. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):125–33

The relationship between the delayed improvement in ankle–brachial pressure index and changes in limb volume following balloon angioplasty for leg ischaemia. Ray SA, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):114–7

Blood flow acceleration in the carotid and brachial arteries of healthy volunteers: respective contributions of cardiac performance and local resistance. Chemla D, et al. **Fundam Clin Pharmacol** 1996;10(4):393–9

Non-invasive measurement of endothelial function: effect on brachial artery dilatation of graded endothelial dependent and independent stimuli. Leeson P, et al. **Heart** 1997 Jul; 78(1):22–7

Short-term exercise training alters responses of porcine femoral and brachial arteries. McAllister RM, et al. **J Appl Physiol** 1997 May;82(5):1438–44

Brachial and digital artery pulse pressures in hypertensive and normotensive subjects. Bochmann RP, et al. **J Hum Hypertens** 1996 Aug;10(8):539–46

The ankle–brachial index in normal neonates and infants is significantly lower than in older children and adults. Katz S, et al. **J Pediatr Surg** 1997 Feb;32(2):269–71

Temporal inhomogeneity in brachial artery blood flow during forearm exercise. Robergs RA, et al. **Med Sci Sports Exerc** 1997 Aug;29(8):1021–7

Menstrual cyclic variation of endothelium-dependent vasodilation of the brachial artery: possible role of estrogen and nitric oxide. Kawano H, et al. **Proc Assoc Am Physicians** 1996 Nov;108(6):473–80

[Usefulness of brachial artery pressure with forearm compression as arterial pressure monitoring after cardiopulmonary bypass] Katsuno M. **Masui** 1996 Jan; 45(1):77–81 (Eng. Abstr.) **(Jpn)**

[Imbalance of blood flow induced by sympathetic block was corrected by prostaglandin E1] Okuda Y, et al. **Masui** 1996 Jan;45(1):27–9 (Eng. Abstr.) **(Jpn)**

[Influence of stellate ganglion block and electrical stimulation of the stellate ganglion on bilateral brachial arterial blood flow—is stellate ganglion block effective either unilaterally or bilaterally?] Okuda Y, et al. **Masui** 1996 Dec; 45(12):1465–8 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Flow-mediated, endothelium-dependent dilatation of the brachial arteries is impaired in patients with coronary spastic angina. Motoyama T, et al. **Am Heart J** 1997 Mar; 133(3):263–7

Flow-induced vasodilation of the human brachial artery is impaired in patients <40 years of age with coronary artery disease. Lieberman EH, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1210–4

Vascular abnormalities associated with long-term cigarette smoking identified by arterial waveform analysis. McVeigh GE, et al. **Am J Med** 1997 Mar;102(3):227–31

Endothelium-dependent and -independent vasodilation of large arteries in normoalbuminuric insulin-dependent diabetes mellitus. Lambert J, et al. **Arterioscler Thromb Vasc Biol** 1996 May;16(5):705–11

Systemic endothelial dysfunction is related to the extent and severity of coronary artery disease. Neunteufl T, et al. **Atherosclerosis** 1997 Feb 28;129(1):111–8

Associations of ankle–brachial index with clinical coronary heart disease, stroke and preclinical carotid and popliteal atherosclerosis: the Atherosclerosis Risk in Communities (ARIC) Study. Zheng ZJ, et al. **Atherosclerosis** 1997 May; 131(1):115–25

Hyperhomocyst(e)inemia is associated with impaired endothelium-dependent vasodilation in humans. Tawakol A, et al. **Circulation** 1997 Mar 4;95(5):1119–21

Impaired hyperemic response of brachial artery with the presence of diabetes mellitus in patients with coronary artery disease: a preliminary study. Tomoike H, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:55–9

Flow associated or flow mediated dilatation? More than just semantics [editorial] Bhagat K, et al. **Heart** 1997 Jul; 78(1):7–8

Effects of arginine vasopressin and 1-desamino-8-D arginine vasopressin on forearm vasculature of healthy subjects and patients with a V2 receptor defect. van Lieburg AF, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1695–700

Endothelium-dependent vasodilatation and distensibility of large arteries in chronic haemodialysis patients. van Guldener C, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:14–8

RADIOGRAPHY

Arrival of femoral closure devices and the demise of brachial angiography and interventions [editorial; comment] Clark DA. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):384–5. Comment on: Cathet Cardiovasc Diagn 1997 Aug;41(4):378–83.

SURGERY

The superficial brachial flap. Iwahira Y, et al. **Ann Plast Surg** 1996 Jul;37(1):48–54 (8 ref.)

Multiple idiopathic arterial aneurysms in children: a case report and review of the literature. Halpern V, et al. **J Vasc Surg** 1997 May;25(5):949–56 (22 ref.)

ULTRASONOGRAPHY

Impaired endothelial function with essential hypertension assessed by ultrasonography. Iiyama K, et al. **Am Heart J** 1996 Oct;132(4):779–82

Effect of acute cigarette smoking on endothelium-dependent brachial artery dilatation in healthy individuals. Lekakis J, et al. **Am J Cardiol** 1997 Feb 15;79(4):529–31

Modulation of endothelium-dependent, flow-mediated dilatation of the brachial artery by sex and menstrual cycle [letter; comment] Lambert J, et al. **Circulation** 1996 Nov 1;94(9):2319–20. Comment on: Circulation 1995 Dec 15;92(12):3431–5.

Doppler-assisted nerve block [letter] Elias MA. **Reg Anesth** 1997 Jan–Feb;22(1):105

New methods for arterial diameter measurement from B-mode images. Stadler RW, et al. **Ultrasound Med Biol** 1996;22(1):25–34

BRACHIAL-BASILAR INSUFFICIENCY SYNDROME see **SUBCLAVIAN STEAL SYNDROME**

BRACHIAL NEURALGIA see **CERVICO-BRACHIAL NEURALGIA**

BRACHIAL PLEXUS

see related
CERVICO-BRACHIAL NEURALGIA
THORACIC OUTLET SYNDROME

The axillary perivascular technique of brachial plexus block. Vanacker B. **Acta Anaesthesiol Belg** 1996;47(4):171–5

Dyspnea resulting from phrenic nerve paralysis after interscalene brachial plexus block in an obese male—a case report. Rau RH, et al. **Acta Anaesthesiol Sin** 1997 Jun; 35(2):113–8

Brachial plexus block for ipsilateral shoulder pain after thoracotomy. Ng KP, et al. **Anaesth Intensive Care** 1997 Feb;25(1):74–6

Axillary brachial plexus block in two hundred consecutive patients. Pearce H, et al. **Anaesth Intensive Care** 1996 Aug; 24(4):453–8

Effect of transcutaneous electrical nerve stimulation on onset of axillary plexus block. Stevens MF, et al. **Anaesthesia** 1996 Oct;51(10):916–9

Comparison between conventional axillary block and a new approach at the midhumeral level. Bouaziz H, et al. **Anesth Analg** 1997 May;84(5):1058–62

Placement of an axillary catheter in the subpectoral space [letter] de Córdoba JL, et al. **Anesth Analg** 1997 Oct; 85(4):947–8

A novel supraclavicular approach to brachial plexus block. Pham-Dang C, et al. **Anesth Analg** 1997 Jul;85(1):111–6

The efficacy of axillary block for surgical procedures about the elbow. Schroeder LE, et al. **Anesth Analg** 1996 Oct; 83(4):747–51

Infraclavicular vertical plexus blockade: a safe alternative to the axillary approach? [letter] Schüpfer GK, et al. **Anesth Analg** 1997 Jan;84(1):233

A minimum dose of clonidine added to mepivacaine prolongs the duration of anesthesia and analgesia after axillary brachial plexus block. Singelyn FJ, et al. **Anesth Analg** 1996 Nov;83(5):1046–50

Idiopathic brachial plexitis after total shoulder replacement with interscalene brachial plexus block. Tetzlaff JE, et al. **Anesth Analg** 1997 Sep;85(3):644–6

Computed tomographic study of parascalene block. Vongvises P, et al. **Anesth Analg** 1997 Feb;84(2):379–82

Patient and surgeon satisfaction with extremity blockade for surgery in remote locations. Waters JH, et al. **Anesth Analg** 1997 Apr;84(4):773–6

Third-degree heart block complicating supraclavicular brachial plexus block. Vyas A, et al. **Anesthesiology** 1996 Sep;85(3):675–7

Bilateral brachial plexus neuritis following parvovirus B19 and cytomegalovirus infection. Maas JJ, et al. **Ann Neurol** 1996 Dec;40(6):928–32

Horner's syndrome and brachial paresis as a complication of lumbar sympathetic block: a case report. Maranhão-Filho PA, et al. **Arq Neuropsiquiatr** 1995 Dec; 53(4):831–3

Interscalene anesthesia for shoulder arthroscopy in a community-sized military hospital. Arciero RA, et al. **Arthroscopy** 1996 Dec;12(6):715–9

A brief report on malignant triton tumour of the brachial plexus [letter] Griffiths D, et al. **Br J Clin Pract** 1996 Mar; 50(2):120

Delayed bilateral spinal anaesthesia [letter; comment] Dilger JA. **Can J Anaesth** 1997 May;44(5 Pt 1):572. Comment on: Can J Anaesth 1996 Mar;43(3):303–5.

Axillary brachial plexus block—an underused technique in the accident and emergency department. Mackay CA, et al. **J Accid Emerg Med** 1997 Jul;14(4):226–9

Brachial neuritis presenting as anterior interosseous nerve compression—implications for diagnosis and treatment: a case report. Wong L, et al. **J Hand Surg [Am]** 1997 May; 22(3):536–9 (29 ref.)

Scapular instability associated with brachial plexus irritation: a proposed causative relationship with treatment implications. Langley P. **J Hand Ther** 1997 Jan–Mar; 10(1):35–40 (15 ref.)

Brachial plexus compression by venous aneurysms. Case illustration. Gabriel EM, et al. **J Neurosurg** 1997 Feb; 86(2):311

Chronic relapsing brachial plexus neuropathy with persistent conduction block. Amato AA, et al. **Muscle Nerve** 1997 Oct;20(10):1303–7

Obstetrical brachial plexus palsy (OBPP) outcome with conservative management. Eng GD, et al. **Muscle Nerve** 1996 Jul;19(7):884–91

Neurolymphomatosis [letter; comment] Gordon PH, et al. **Neurology** 1996 Apr;46(4):1191–2. Comment on: Neurology 1995 Jul;45(7):1403–5.

Brachial plexopathy associated with human granulocytic ehrlichiosis. Horowitz HW, et al. **Neurology** 1996 Apr; 46(4):1026–9

Demyelinating brachial neuropathy complicating syngeneic graft-versus-host disease. Yoshiyama Y, et al. **Neurology** 1997 Jan;48(1):287–8

Brachial plexus block using a nerve stimulator and a conventional needle. Furukawa M, et al. **Osaka City Med J** 1994 Jul;40(1):27–30

Paranoid psychosis due to flecainide toxicity in malignant neuropathic pain. Bennett MI. **Pain** 1997 Mar;70(1):93–4

Brachial neuritis following routine childhood immunization for diphtheria, tetanus, and pertussis (DTP): report of two cases and review of the literature. Hamati-Haddad A, et al. **Pediatrics** 1997 Apr;99(4):602–3 (15 ref.)

Analgesic brachial plexus block for reduction of shoulder dislocation [letter] Agostoni M, et al. **Reg Anesth** 1996 Jul–Aug;21(4):373

Multiple injections versus transarterial technique for axillary block [letter] Baumgarten RK. **Reg Anesth** 1996 Sep–Oct; 21(5):495–6

Low-volume interscalene brachial plexus block for perioperative shoulder pain [letter] Bruin G, et al. **Reg Anesth** 1996 Jul–Aug;21(4):371

Doppler-assisted nerve block [letter] Elias MA. **Reg Anesth** 1997 Jan–Feb;22(1):105

Accelerated recovery from brachial plexus block by dilution [letter] Elias MA. **Reg Anesth** 1996 Nov–Dec;21(6):600

Continuous axillary brachial plexus block for postoperative pain relief. Intermittent bolus versus continuous infusion. Mezzatesta JP, et al. **Reg Anesth** 1997 Jul–Aug;22(4):357–62

Giant cell arteritis revealed by bilateral lesions of brachial plexus [letter] Gatfosse M, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):301–2

[Clinical experience in interscalene brachial plexus block combined with Ho's method of C3–4 block for shoulder and proximal upper extremity surgeries] Ho CS, et al. **Acta Anaesthesiol Sin** 1996 Sep;34(3):135–40 (Eng. Abstr.) **(Chi)**

[A case of schwannoma arising in the brachial plexus with intrathoracic extension] Tokitsu K, et al. **Kyobu Geka** 1997 Jul;50(7):598–601 (Eng. Abstr.) **(Jpn)**

[Continuous axillary plexus block in pediatrics (letter)] de la Linde CM, et al. **Rev Esp Anestesiol Reanim** 1997 Feb; 44(2):87–8 **(Spa)**

[Acute respiratory insufficiency after supraclavicular block of the brachial plexus (letter)] Ortells MA, et al. **Rev Esp Anestesiol Reanim** 1996 Aug–Sep;43(7):262–3 **(Spa)**

ABNORMALITIES

Scalene muscles and the brachial plexus: anatomical variations and their clinical significance. Harry WG, et al. **Clin Anat** 1997;10(4):250–2

A rare case: the medical cord of the brachial plexus sandwiched between the axillary and superficial brachial arteries. Nakatani T, et al. **Kaibogaku Zasshi** 1997 Apr; 72(2):151–4

Complete excision of the lower trunk and C8 and T1 nerve roots in a patient with Pancoast tumor with a resulting fully functional hand. Carp S, et al. **Physiother Res Int** 1997;2(1):51–5

ANATOMY & HISTOLOGY

Roots of the lateral cord of the brachial plexus in man. Urbanowicz Z. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:13–8

Some features of the internal structure of the brachial plexus trunks in man. Urbanowicz Z. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:19–25

The accessory root of the medial fascicle of the brachial plexus in man. Urbanowicz Z. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:9–12

Neurological and osteological definitions of cervical vertebrae in mammals. Giffin EB, et al. **Brain Behav Evol** 1996;47(4):214–8

Functional motor innervation of brachial plexus roots. An intraoperative electrophysiological study. Gu Y. **Chin Med J (Engl)** 1996 Oct;109(10):749–51

On the morphology of the brachial plexus of the platypus

(Ornithorhynchus anatinus) and the echidna (Tachyglossus aculeatus). Koizumi M, et al. **J Anat** 1997 Apr;190 (Pt 3):447–55

Case report: bilateral location of the axillary artery posterior to the medial cord of the brachial plexus [letter] Nakatani T, et al. **J Anat** 1996 Oct;189 (Pt 2):457–9

Functional connectivity of the transected brachial plexus after intercostal neurotization in monkeys. Cheng H, et al. **J Comp Neurol** 1997 Apr 7;380(2):155–63

Brachial plexus: MR imaging with a dedicated phased array of surface coils. Hayes CE, et al. **Radiology** 1997 Apr; 203(1):286–9

Brachial plexus anatomy [letter] Cornish PB, et al. **Reg Anesth** 1997 Jan–Feb;22(1):106–7

The brachial plexus. Mukherji SK, et al. **Semin Ultrasound CT MR** 1996 Dec;17(6):519–38 (44 ref.)

[Anatomy of the brachial plexus] Koebke J. **Orthopade** 1997 Jul;26(7):586–9 (8 ref.) (Eng. Abstr.) **(Ger)**

[Examination of the courses of the arteries in the axillary region. II. The course of the axillary artery in the case of Adachi's C-type brachial plexus] Aizawa Y, et al. **Kaibogaku Zasshi** 1996 Apr;71(2):92–105 (Eng. Abstr.) **(Jpn)**

CYTOLOGY

Ultrastructural study of external cuneothalamic neurons and their synaptic relationships with primary afferents in the gerbil. Lan CT, et al. **J Comp Neurol** 1996 Mar 11; 366(3):406–15

DRUG EFFECTS

Dose-range effects of clonidine added to lidocaine for brachial plexus block. Bernard JM, et al. **Anesthesiology** 1997 Aug;87(2):277–84

INJURIES

Intra-operative electrophysiological diagnosis of spinal root avulsion during surgical repair of brachial plexus stretch injuries. Oberle J, et al. **Acta Neurochir (Wien)** 1997; 139(3):238–9

Results of DREZ coagulations for pain related to plexus lesions, spinal cord injuries and postherpetic neuralgia. Rath SA, et al. **Acta Neurochir (Wien)** 1996;138(4):364–9

Radiation-induced brachial plexopathy: MR and clinical findings. Bowen BC, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1932–6

Detection of nerve rootlet avulsion on CT myelography in patients with birth palsy and brachial plexus injury after trauma. Walker AT, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1283–7

Brachial plexus palsy: an old problem revisited again. II. Cases in point. Jennett RJ, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1354–6; discussion 1356–7

Brachial plexus injury due to compression: an alternate mechanism of injury: case report and review of the literature. Desai DC, et al. **Am Surg** 1997 Jun;63(6):487–9 (5 ref.)

Hands-up positioning during asymmetric sternal retraction for internal mammary artery harvest: a possible method to reduce brachial plexus injury. Jellish WS, et al. **Anesth Analg** 1997 Feb;84(2):260–5

Surgical management of superficial siderosis following cervical nerve root avulsion. Tapscott SJ, et al. **Ann Neurol** 1996 Dec;40(6):936–40

Case report: unilateral combined facial nerve and brachial plexus palsies in a neonate following a midlevel forceps delivery. de Chalain TM, et al. **Ann Plast Surg** 1997 Feb; 38(2):187–90 (27 ref.)

Obstetric brachial plexus injury in subsequent deliveries. al-Qattan MM, et al. **Ann Plast Surg** 1996 Nov;37(5):545–8

Brachial plexus injury in association with fracture-dislocation of the shoulder. Yip KM, et al. **Bull Hosp Jt Dis** 1996; 55(2):92–4 (8 ref.)

Phrenic nerve transfer in the repair of brachial plexus injuries: an animal model. Ko SJ, et al. **Chin J Physiol** 1997; 40(1):51–5

Shoulder fusion for paralyzed upper limb. Emmelot CH, et al. **Clin Orthop** 1997 Jul;(340):95–101

A child with Erb Palsy depicted in art [letter] Katzenstein M. **Clin Pediatr (Phila)** 1996 Jul;35(7):381

New reconstructive procedure for brachial plexus injury. Doi K. **Clin Plast Surg** 1997 Jan;24(1):75–85 (17 ref.)

The effects of remaining axons on motoneuron survival and NOS expression following axotomy in the adult rat. Gu Y, et al. **Dev Neurosci** 1997;19(3):255–9

Obstetric brachial plexus palsy with anterior dislocation of the shoulder. Flores M, et al. **Injury** 1997 Mar;28(2):148–9

Brachial plexopathy secondary to anticoagulant-induced hematoma as a complication of axillary arteriography. Shoup DW, et al. **J Am Osteopath Assoc** 1997 Feb; 97(2):102–5 (18 ref.)

Injury to the brachial plexus by a fragment of bone after fracture of the clavicle. Barbier O, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):534–6

Pain relief from preganglionic injury to the brachial plexus by late intercostal nerve transfer. Berman J, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):759–60

Brachial plexus injuries. Birch R. **J Bone Joint Surg Br** 1996 Nov;78(6):986–92

Nerve grafting in brachial plexus injuries. Results of free grafts in 90 patients. Ochiai N, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):754–8

Traction injuries of the brachial plexus: signal intensity changes of the posterior cervical paraspinal muscles on MRI. Uetani M, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):790–5

Quality of life and functional outcome following brachial plexus injury. Choi PD, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):605–12

Restoration of sensibility in the hand after complete brachial plexus injury. Ihara K, et al. **J Hand Surg [Am]** 1996 May; 21(3):381–6

Spinal accessory neurotization for restoration of elbow flexion in avulsion injuries of the brachial plexus. Songcharoen P, et al. **J Hand Surg [Am]** 1996 May; 21(3):387–90

Transposition of the bicipital tuberosity for treatment of fixed supination contracture in obstetric brachial plexus lesions. Eberhard D. **J Hand Surg [Br]** 1997 Apr;22(2):261–3

Brachial plexus palsy and carotid artery dissection. Edmunds I, et al. **J Hand Surg [Br]** 1996 Oct;21(5):695

The EFFUL (Evaluation of Function in the Flail Upper Limb) system. A ranking score system to measure improvement achieved by surgical reconstruction and rehabilitation. Eggers IM, et al. **J Hand Surg [Br]** 1997 Jun;22(3):388–94

Functional motor innervation of brachial plexus roots. An intraoperative electrophysiological study. Gu YD. **J Hand Surg [Br]** 1997 Apr;22(2):258–60

Rehabilitation of patient with brachial plexus lesion and break in axillary artery. Case study. Bajuk S, et al. **J Hand Ther** 1996 Oct–Dec;9(4):399–403

Management of pain in brachial plexus lesions. Frampton V. **J Hand Ther** 1996 Oct–Dec;9(4):339–43 (23 ref.)

A retrospective analysis of Erb's palsy cases and their relation to birth weight and trauma at delivery. Graham EM, et al. **J Matern Fetal Med** 1997 Jan–Feb;6(1):1–5

Peripheral and spinal SEPs in the extraoperative evaluation of non-penetrating brachial plexus injuries. Piravej N, et al. **J Med Assoc Thai** 1996 Feb;79(2):108–15

Diagnosis of root avulsions in traumatic brachial plexus injuries: value of computerized tomography myelography and magnetic resonance imaging [see comments] Carvalho GA, et al. **J Neurosurg** 1997 Jan;86(1):69–76. Comment in: J Neurosurg 1997 Sep;87(3):483–4.

Diagnosis of root avulsions [letter; comment] Kline DG, et al. **J Neurosurg** 1997 Sep;87(3):483–4. Comment on: J Neurosurg 1997 Jan;86(1):69–76.

Bilateral brachial plexus compressive neuropathy (crutch palsy). Raikin S, et al. **J Orthop Trauma** 1997 Feb–Mar; 11(2):136–8

Infantile dislocation of the elbow complicating obstetric palsy. Cummings RJ, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):589–93

Obstetric brachial plexus palsy. Lindell-Iwan HL, et al. **J Pediatr Orthop B** 1996 Summer;5(3):210–5

Free vascularized deep peroneal nerve grafts. Koshima I, et al. **J Reconstr Microsurg** 1996 Apr;12(3):131–41

Neurologic deficit and recovery in the donor limb following cross-C7 transfer in brachial-plexus injury. Liu J, et al. **J Reconstr Microsurg** 1997 May;13(4):237–42; discussion 242–3

Birth trauma. A five-year review of incidence and associated perinatal factors. Perlow JH, et al. **J Reprod Med** 1996 Oct;41(10):754–60 (22 ref.)

Advancement of the insertion of the biceps brachii muscle: a technique for increasing elbow flexion force. Nemoto K, et al. **J Shoulder Elbow Surg** 1996 Nov–Dec;5(6):433–6

Recovery of biceps function after delayed repair for brachial plexus injury. Richardson PM. **J Trauma** 1997 May; 42(5):791–2

False aneurysm of the common carotid artery and injury of the brachial plexus due to trauma inflicted by an air gun pellet. van Alphen JC, et al. **J Trauma** 1996 Dec; 41(6):1044–6

The role of medico-legal reviews in medical research. Iffy L, et al. **Med Law** 1996;15(3):399–406

Intraoperative electrodiagnostic testing during cross-chest C7 nerve root transfer. Holland NR, et al. **Muscle Nerve** 1997 Jul;20(7):903–5

Magnetic nerve root stimulation in two types of brachial plexus injury: segmental demyelination and axonal degeneration. Oge AE, et al. **Muscle Nerve** 1997 Jul; 20(7):823–32

Epidemiology of brachial plexus injuries in a multitrauma population. Midha R. **Neurosurgery** 1997 Jun;40(6):1182–8; discussion 1188–9

Permanent Erb palsy: a traction related injury? [letter; comment] Acker D. **Obstet Gynecol** 1997 May;89(5 Pt 1):797. Comment on: Obstet Gynecol 1997 Jan;89(1):139–41.

Birth weight as a predictor of brachial plexus injury. Ecker JL, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):643–7

Birth weight as a predictor of brachial plexus injury [letter] Gittens L, et al. **Obstet Gynecol** 1997 Sep;90(3):479

Birth weight as a predictor of brachial plexus injury [letter] Sandmire HF. **Obstet Gynecol** 1997 Sep;90(3):479–80

Reinsertion of the pectoralis minor into the gracilis free transfer in brachial plexus reconstruction [letter] Cavadas PC, et al. **Plast Reconstr Surg** 1997 Jan;99(1):261–2

Nerve grafting and end-to-side neurorrhaphies connecting phrenic nerve to the brachial plexus [letter; comment] Dellon AL. **Plast Reconstr Surg** 1996 Oct;98(5):905. Comment on: Plast Reconstr Surg 1995 Aug;96(2):494–5.

Significance of elbow extension in reconstruction of prehension with reinnervated free-muscle transfer following complete brachial plexus avulsion. Doi K, et al. **Plast Reconstr Surg** 1997 Aug;100(2):364–72; discussion 373–4

Experimental study on donor nerves for brachial plexus injury: comparison between the spinal accessory nerve and the intercostal nerve. Hattori Y, et al. **Plast Reconstr Surg** 1997 Sep;100(4):900–6

Ulnar distribution of reflex sympathetic dystrophy due to compression of the brachial plexus by a primary venous malformation. Magnussen JS, et al. **Skeletal Radiol** 1997 May;26(5):303–5

[Neurogenic pain following Palestinian hanging] Thomsen AB, et al. **Ugeskr Laeger** 1997 Jun 23;159(26):4129–30 (Eng. Abstr.) **(Dan)**

[Use of a transcutaneous neuro-stimulator as peroperative stimulator in neurosurgical treatment of spasticity and traumatic lesions of the peripheral nerves and brachial plexus] Finiels PJ, et al. **Neurochirurgie** 1996;42(3):179–80 (Eng. Abstr.) **(Fre)**

[Paralysis of the brachial plexus caused by supraclavicular injuries in the adult. Long-term comparative results of nerve grafts and transfers] Allieu Y, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):51–9 (Eng. Abstr.) **(Fre)**

[Lesions to the axillary nerve] Alnot JY, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):579–89 (Eng. Abstr.) **(Fre)**

[Arthrodesis of the shoulder for post-traumatic palsy of the brachial plexus. Analysis of a series of 18 cases] Chammas M, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(5):386–95 (Eng. Abstr.) **(Fre)**

[Secondary replacement operations for reconstruction of elbow joint function after lesion of the brachial plexus] Berger A, et al. **Orthopade** 1997 Jul;26(7):643–50 (Eng. Abstr.) **(Ger)**

[Diagnosis and surgical indications of traumatic brachial plexus lesions from the neurosurgery viewpoint] Carvalho GA, et al. **Orthopade** 1997 Jul;26(7):599–605 (30 ref.) (Eng. Abstr.) **(Ger)**

[Pain management after post-traumatic brachial plexus lesions. Conservative and surgical therapy possibilities] Carvalho GA, et al. **Orthopade** 1997 Jul;26(7):621–5 (30 ref.) (Eng. Abstr.) **(Ger)**

[Shoulder arthrodesis in deltoid paralysis] Kohn D, et al. **Orthopade** 1997 Jul;26(7):630–3 (21 ref.) (Eng. Abstr.) **(Ger)**

[Brachial plexus injuries in adults] Millesi H. **Orthopade** 1997 Jul;26(7):590–8 (13 ref.) **(Ger)**

[Nerve transfer (neurotization) for functional reconstruction of arm functions in cervical root avulsions] Nikkhah G, et al. **Orthopade** 1997 Jul;26(7):606–11 (21 ref.) (Eng. Abstr.) **(Ger)**

[Nerve transplantation and neurolysis of the brachial plexus after post-traumatic lesions] Nikkhah G, et al. **Orthopade** 1997 Jul;26(7):612–20 (24 ref.) (Eng. Abstr.) **(Ger)**

[Trapezius transfer in deltoid paralysis] Rühmann O, et al. **Orthopade** 1997 Jul;26(7):634–42 (Eng. Abstr.) **(Ger)**

[Significance of MRI diagnosis for imaging traumatically-induced cervical root avulsions. Case report] Muth CP, et al. **Rontgenpraxis** 1996 Nov;49(11):283–5 **(Ger)**

[Brachial plexus paralysis: its incidence, predisposing factors and outcome] Mami C, et al. **Minerva Ginecol** 1997 May; 49(5):203–6 (Eng. Abstr.) **(Ita)**

[Brachial plexus injuries in newborn infants] Rootwelt T, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2445–8 (Eng. Abstr.) **(Nor)**

[The diagnosis of injury to the brachial plexus] Zuneĭbiri N. **Klin Khir** 1995;(3):52 **(Rus)**

[The use of multichannel electromyostimulation in the combined sanatorium-health resort treatment of children with the sequelae of birth-related brachial plexitis] Drinevskiĭ NP, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):13–5 **(Rus)**

[The x-ray radiological semeiotics of the pain syndrome in a traumatic lesion of the brachial plexus] Shevelev IN, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Apr–Jun; (2):25–8 (Eng. Abstr.) **(Rus)**

PATHOLOGY

MR imaging of brachial plexopathy in neurolymphomatosis. Swarnkar A, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1189–90

Primary monophasic synovial sarcoma of the brachial plexus: report of a case and review of the literature. Tacconi L, et al. **Clin Neurol Neurosurg** 1996 Aug;98(3):249–52 (7 ref.)

Herpes zoster brachial plexus neuritis. Fabian VA, et al. **Clin Neuropathol** 1997 Mar–Apr;16(2):61–4

Diagnosis of root avulsions [letter; comment] Kline DG, et al. **J Neurosurg** 1997 Sep;87(3):483–4. Comment on: J Neurosurg 1997 Jan;86(1):69–76.

Magnetic resonance imaging of the brachial plexus in patients with multifocal motor neuropathy. Van Es HW, et al. **Neurology** 1997 May;48(5):1218–24

Acquired immobility of the right arm. Bell WE. **Semin Pediatr Neurol** 1996 Sep;3(3):173–6

Radiation-induced brachial plexopathy: MR imaging.

Wouter van Es H, et al. **Skeletal Radiol** 1997 May; 26(5):284–8

[Plexiform neurofibroma of the brachial plexus] Kuś H, et al. **Neurol Neurochir Pol** 1996 Jul–Aug;30(4):691–5 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Axillary brachial plexus anesthesia: electrical versus cold saline stimulation. Rodríguez J, et al. **Anesth Analg** 1996 Oct;83(4):752–4

Electrophysiological findings in patients who received radiation therapy over the brachial plexus: a magnetic stimulation study. Boyaciyan A, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec; 101(6):483–90

Somatosensory evoked potential monitoring during cardiac surgery: an examination of brachial plexus dysfunction. Seal D, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):187–91

[Functional motor innervation of brachial plexus roots: an intraoperative electrophysiological study] Gu Y, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):40–3 (Eng. Abstr.) **(Chi)**

PHYSIOPATHOLOGY

Persisting "writer's cramp" as a result of compensation of a temporary palsy due to a hereditary neuropathy with liability to pressure palsies. Straube A, et al. **Mov Disord** 1996 Sep;11(5):576–9

Magnetic nerve root stimulation in two types of brachial plexus injury: segmental demyelination and axonal degeneration. Oge AE, et al. **Muscle Nerve** 1997 Jul; 20(7):823–32

Prenatal brachial plexus paralysis. Paradiso G, et al. **Neurology** 1997 Jul;49(1):261–2

[Spontaneous acquired localized neuropathies in childhood] Peña JL, et al. **Rev Neurol** 1997 Jun;25(142):890–3 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Electrophysiological findings in patients who received radiation therapy over the brachial plexus: a magnetic stimulation study. Boyaciyan A, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec; 101(6):483–90

Management of radiation–induced brachial plexus neuropathy. Royal College Radiologists. **Oncology (Huntingt)** 1996 May;10(5):685, 689

SURGERY

Obstetrical palsy: early treatment and secondary procedures. Duclos L, et al. **Ann Acad Med Singapore** 1995 Nov; 24(6):841–5

New reconstructive procedure for brachial plexus injury. Doi K. **Clin Plast Surg** 1997 Jan;24(1):75–85 (17 ref.)

Selective motor hyperreinnervation using motor rootlet transfer: an experimental study in rat brachial plexus. Bertelli JA, et al. **J Neurosurg** 1997 Jul;87(1):79–84

Peripheral selective neurotomy of the brachial plexus collateral branches for treatment of the spastic shoulder: anatomical study and clinical results in five patients. Decq P, et al. **J Neurosurg** 1997 Apr;86(4):648–53

The intercosto–brachial anastomosis in the treatment of cervical roots avulsions: clinical and neurophysiological considerations. Iob I, et al. **J Neurosurg Sci** 1996 Jun; 40(2):99–105

Obstetric brachial plexus palsy. Lindell–Iwan HL, et al. **J Pediatr Orthop B** 1996 Summer;5(3):210–5

Intraoperative electroneurodiagnostics (transcranial electrical motor evoked potentials) to evaluate the functional status of anterior spinal roots and spinal nerves during brachial plexus surgery. Turkof E, et al. **Plast Reconstr Surg** 1997 May;99(6):1632–41

[Historical development of muscle replacement operations in brachial paralysis] Wirth CJ, et al. **Orthopade** 1997 Jul; 26(7):626–9 **(Ger)**

BRACHIOCEPHALIC TRUNK

Re: Percutaneous treatment of a symptomatic brachiocephalic artery stenosis with a Palmaz stent [letter] Brophy DP, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct;20(5):405–6

A case of spontaneous innominate artery perforation with pericardial tamponade. Gutierrez HG, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):277–80

Heart failure in a macaw with atherosclerosis of the aorta and brachiocephalic arteries. Phalen DN, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1435–40

Delayed presentation and rupture of a posttraumatic innominate artery aneurysm: case report and review of the literature. Hirose H, et al. **J Trauma** 1997 Jun;42(6):1187–95 (30 ref.)

Supra–aortic arterial stenoses: management with Palmaz balloon–expandable intraluminal stents. Lyon RD, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):825–35

Innominate artery saddle embolus: a pitfall for retrograde brachial embolectomy. Brusett KA, et al. **J Vasc Surg** 1997 Mar;25(3):569–71

Aneurysms of the great vessels and their branches. Bower TC. **Semin Vasc Surg** 1996 Jun;9(2):134–46

Diseases of the brachiocephalic arteries and their management. Overview. Bower TC, et al. **Semin Vasc Surg** 1996 Jun;9(2):71–6

Innominate artery occlusive disease: management with central reconstructive techniques. Ligush J Jr, et al. **Surgery** 1997 May;121(5):556–62

Aneurysm of the innominate artery with aberrant origin of the left carotid artery. Case report. Villegas–Cabello O, et al. **Tex Heart Inst J** 1996;23(4):298–300

[Special technics for angioplasty of the brachiocephalic vessels] Schroth G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):165–73 (Eng. Abstr.) **(Ger)**

[Quality criteria in using percutaneous transluminal angioplasty of supra–aortic arteries] Kachel R, et al. **Zentralbl Chir** 1996;121(12):1076–84 (Eng. Abstr.) **(Ger)**

[A case report of surgical treatment for aneurysm of the brachiocephalic artery associated with tracheal stenosis] Matsushita T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):754–8 (Eng. Abstr.) **(Jpn)**

[Simultaneous surgical treatment for distal aortic arch aneurysm associated with innominate artery aneurysm and coronary artery disease] Nakashima S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):778–82 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Diagnosis and management of left main stem bronchus compression. Goldman SA, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):461–5

Innominate artery compression of the trachea in infants [see comments] Mahboubi S, et al. **Int J Pediatr Otorhinolaryngol** 1996 May;35(3):197–205. Comment in: Int J Pediatr Otorhinolaryngol 1997 Jan 3;38(3):281–4.

Combined surgical and endovascular treatment of a traumatic pseudo–aneurysm of the brachiocephalic trunk with anatomical anomaly. Ruebben A, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):173–6

"Lumps" and "bumps" that mimic acute aortic and brachiocephalic vessel injury. Fisher RG, et al. **Radiographics** 1997 Jul–Aug;17(4):825–34

ANATOMY & HISTOLOGY

Re: Normal thymus extending between the right brachiocephalic vein and the innominate artery [letter; comment] Kuhn JP. **AJR Am J Roentgenol** 1996 Dec; 167(6):1592. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1462–4.

INJURIES

Combined surgical and endovascular treatment of a traumatic pseudo–aneurysm of the brachiocephalic trunk with anatomical anomaly. Ruebben A, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):173–6

Assessment of blunt aortic–brachiocephalic trauma: should angiography be supplanted by transesophageal echocardiography? [comment] Ben–Menachem Y. **J Trauma** 1997 May;42(5):969–72 (42 ref.). Comment on: J Trauma 1996 Mar;40(3):422–7. Comment on: J Trauma 1997 May;42(5):960–3.

"Lumps" and "bumps" that mimic acute aortic and brachiocephalic vessel injury. Fisher RG, et al. **Radiographics** 1997 Jul–Aug;17(4):825–34

Subtle or atypical injuries of the thoracic aorta and brachiocephalic vessels in blunt thoracic trauma. Fisher RG, et al. **Radiographics** 1997 Jul–Aug;17(4):835–49

Management of injuries to branches of the aortic arch. Rhee RY, et al. **Semin Vasc Surg** 1996 Jun;9(2):147–55

Thoracic aortocaval fistula due to gunshot wound. Semiz E, et al. **Thorac Cardiovasc Surg** 1996 Oct;44(5):261–3

[Traumatic rupture of brachiocephalic bifurcation trunk] Fedanov LV. **Khirurgiia (Mosk)** 1997;(1):62–3 **(Rus)**

PHYSIOPATHOLOGY

Letter to the editor re article by Mahboubi et al., on 'Innominate artery compression of the trachea in infants' [letter; comment] Mandell GA. **Int J Pediatr Otorhinolaryngol** 1997 Jan 3;38(3):281–4. Comment on: Int J Pediatr Otorhinolaryngol 1996 May;35(3):197–205.

RADIOGRAPHY

Subtle or atypical injuries of the thoracic aorta and brachiocephalic vessels in blunt thoracic trauma. Fisher RG, et al. **Radiographics** 1997 Jul–Aug;17(4):835–49

SURGERY

Innominate and subclavian arteries as an inflow of free arterial graft [see comments] Suma H. **Ann Thorac Surg** 1996 Dec;62(6):1865–6. Comment in: Ann Thorac Surg 1997 Jul;64(1):292–3.

Innominate and subclavian arteries as an inflow of free arterial graft [letter; comment] Terada Y. **Ann Thorac Surg** 1997 Jul;64(1):292–3. Comment on: Ann Thorac Surg 1996 Dec;62(6):1865–6.

Management of tracheoinnominate artery fistula. Wright CD. **Chest Surg Clin N Am** 1996 Nov;6(4):865–73 (17 ref.)

Combined carotid endarterectomy, innominate artery reconstruction, and coronary artery bypass grafting: case report. Rodino W, et al. **J Vasc Surg** 1996 Dec; 24(6):1017–21

Exposure of the brachiocephalic vessels. Rutherford RB. **Semin Vasc Surg** 1996 Jun;9(2):77–83

Innominate artery reconstruction for occlusive disease. Whitley D, et al. **Semin Vasc Surg** 1996 Jun;9(2):84–92

Transthoracic reconstruction of the great vessels using minimally invasive technique. Takach TJ, et al. **Tex Heart Inst J** 1996;23(4):284–8

[Aorto–bi–subclavian bypass in the treatment of left subclavian steal syndrome and stenosis of the innominate artery] Balogh A, et al. **Orv Hetil** 1997 Jul 13; 138(28):1797–800 (27 ref.) (Eng. Abstr.) **(Hun)**

[Assessing the effect of prosthesis of the brachiocephalic trunk] Shipulin VM, et al. **Khirurgiia (Mosk)** 1996;(6):29–33 (Eng. Abstr.) **(Rus)**

BRACHIOCEPHALIC VEINS

Abdominal CT findings when the superior vena cava, brachiocephalic vein, or subclavian vein is obstructed. Bashist B, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1457–63

Rapid safe central venous access in children and adults undergoing open cardiac operations. Jaquiss RD, et al. **Ann Thorac Surg** 1997 Mar;63(3):862–3

Upper extremity DVT. Correlation of MR and nuclear medicine flow imaging. Fielding JR, et al. **Clin Imaging** 1997 Jul–Aug;21(4):260–3

Central venous catheterization in a patient in the prone position [letter] Sunder–Plassmann G, et al. **Crit Care Med** 1997 Aug;25(8):1439–40

Upper extremity central venous obstruction in hemodialysis patients: treatment with Wallstents. Vesely TM, et al. **Radiology** 1997 Aug;204(2):343–8

[Stenosis and thrombosis of the central venous tract as a cause of manifestations of venous hypertension after establishment of an arteriovenous anastomosis for hemodialysis] Bachleda P, et al. **Rozhl Chir** 1996 Oct; 75(10):492–5 (Eng. Abstr.) **(Cze)**

[What is your diagnosis? congenital, partially calcified saccular aneurysm of the superior vena cava and bilateral brachiocephalic veins] Hauser M, et al. **Schweiz Rundsch Med Prax** 1997 Feb 4;86(6):177–81 **(Ger)**

ABNORMALITIES

Fistulous connection between the left pulmonary artery and the innominate vein. Aydoğdu S, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):80–1

ANATOMY & HISTOLOGY

Re: Normal thymus extending between the right brachiocephalic vein and the innominate artery [letter; comment] Kuhn JP. **AJR Am J Roentgenol** 1996 Dec; 167(6):1592. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1462–4.

PATHOLOGY

Detachable balloon occlusion of vascular malformations in young patients. Sreeram N, et al. **Int J Cardiol** 1996 Oct 11;56(2):119–24

[Unknown cause of superior caval syndrome: the innominate vein compression syndrome (letter; comment)] Wurtz A, et al. **Presse Med** 1997 Feb 1;26(2):83. Comment on: Presse Med 1996 Sep 14;25(26):1203–7. **(Fre)**

[Therapy of venous stenosis using wall stents] Schwarzenberg H, et al. **Dtsch Med Wochenschr** 1996 Nov 8;121(45):1383–9 (Eng. Abstr.) **(Ger)**

[A case of thyroid cancer invading into mediastinum that was in need of resection of both innominate veins for complete cure] Tarao M, et al. **Kyobu Geka** 1997 Jul; 50(7):531–4 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Muscular uptake of Tc–99m sestamibi showing collateral flow in a case of venous thrombosis. Sklar DH, et al. **Clin Nucl Med** 1997 Mar;22(3):198

ULTRASONOGRAPHY

Transesophageal echocardiography of the thoracic aorta. Ailloni–Charas O, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):683–5

Echographic detection of latent severe thrombotic stenosis of the superior vena cava and innominate vein in patients with a pacemaker: integrated diagnosis using sonography, pulse Doppler, and color flow. Nishino M, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):946–52

BRACHIOPODA see **INVERTEBRATES**

BRACHYDANIO RERIO see **ZEBRAFISH**

BRACHYTHERAPY

Brachytherapy of squamous cell carcinoma of the nasal vestibule. Evensen JF, et al. **Acta Oncol** 1996;35 Suppl 8:87–92

Implications of radiation induced apoptosis on calculated

radial cell inactivation for a linear 192Ir source. Olsen DR. **Acta Oncol** 1997;36(3):261–6

Radical radiotherapy versus brachytherapy plus surgery in carcinoma of the cervix 2A and 2B––long–term results from a randomized study 1968–1980. Sundfør K, et al. **Acta Oncol** 1996;35 Suppl 8:99–107

Tumour cell proliferation after failed ruthenium plaque radiotherapy for posterior uveal melanoma. Seregard S, et al. **Acta Ophthalmol Scand** 1997 Apr;75(2):148–54

Remote controlled prolonged conscious sedation for gynaecological radiotherapy. Oei–Lim VL, et al. **Anaesthesia** 1996 Sep;51(9):866–8

Interstitial iodine 125 in advanced recurrent squamous cell carcinoma of the head and neck with follow–up evaluation of carotid artery by ultrasound. Chen KY, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):955–61

Plaque radiotherapy for juxtapapillary choroidal melanoma. Visual acuity and survival outcome. De Potter P, et al. **Arch Ophthalmol** 1996 Nov;114(11):1357–65

Intravitreal invasion of malignant cells from choroidal melanoma after brachytherapy. Robertson DM, et al. **Arch Ophthalmol** 1997 Jun;115(6):793–5

Plaque radiotherapy for the management of uveal metastasis. Shields CL, et al. **Arch Ophthalmol** 1997 Feb;115(2):203–9

Comparison of transillumination and histologic slide measurements of choroidal melanoma. Umlas J, et al. **Arch Ophthalmol** 1997 Apr;115(4):474–7

The use of anisotropic data in 125I prostate implants. Fox RA, et al. **Australas Phys Eng Sci Med** 1997 Jun;20(2):57–63

Intraluminal brachytherapy in the treatment of bile duct carcinomas. Leung JT, et al. **Australas Radiol** 1997 May; 41(2):151–4

Extensive basal cell carcinoma treated with the mould radiotherapy technique. Leung JT. **Australas Radiol** 1997 Feb;41(1):20–1

Interstitial iodine–125 radiosurgery for cerebral metastases [letter; comment] Choudhury AR. **Br J Neurosurg** 1996 Apr;10(2):229. Comment on: Br J Neurosurg 1995;9(5):593–603.

Commentary: brachytherapy––clinical dosimetry and the integration of therapies of gynaecological cancer. Joslin CA. **Br J Radiol** 1996 Aug;69(824):689–92

Interstitial iodine–125 radiation without adjuvant therapy in the treatment of clinically localized prostate carcinoma. Ragde H, et al. **Cancer** 1997 Aug 1;80(3):442–53

Brachytherapy for soft tissue sarcomas. Devlin PM, et al. **Cancer Treat Res** 1997;91:107–28 (41 ref.)

Curative irradiation of limited endobronchial carcinomas with high–dose rate brachytherapy. Results of a pilot study [see comments] Pérol M, et al. **Chest** 1997 May; 111(5):1417–23. Comment in: Chest 1997 May;111(5):1158–61.

Long–term angiographic and clinical outcome after percutaneous transluminal coronary angioplasty and intracoronary radiation therapy in humans [see comments] Condado JA, et al. **Circulation** 1997 Aug 5;96(3):727–32. Comment in: Circulation 1997 Aug 5;96(3):709–12. Comment in: Circulation 1997 Aug 19;96(4):1067–8.

Intracoronary brachytherapy: the death knell of restenosis or just another episode of a never–ending story? [editorial; comment] Serruys PW, et al. **Circulation** 1997 Aug 5; 96(3):709–12 (40 ref.). Comment on: Circulation 1997 Aug 5;96(3):727–32.

Feasibility of intracoronary beta–irradiation to reduce restenosis after balloon angioplasty. A clinical pilot study [see comments] Verin V, et al. **Circulation** 1997 Mar 4; 95(5):1138–44. Comment in: Circulation 1997 Mar 4;95(5):1095–7.

Modern techniques of radiation therapy for endometrial cancer. Nag S. **Clin Obstet Gynecol** 1996 Sep;39(3):728–44 (68 ref.)

Dosimetric considerations in the treatment of inoperable endometrial carcinoma by a high dose rate afterloading packing technique. Bond MG, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):41–7

The importance of three–dimensional brachytherapy treatment planning for nasopharyngeal carcinoma. Leung TW, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):35–40

A retrospective study of the role of intracavitary brachytherapy and prognostic factors determining local tumour control after primary radical radiotherapy in 903 non–disseminated nasopharyngeal carcinoma patients. Teo PM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):160–6

Post–operative brachytherapy: a prognostic factor for local control in epidermoid carcinomas of the mouth floor. Lapeyre M, et al. **Eur J Surg Oncol** 1997 Jun;23(3):243–6

IORT using high–dose–rate brachytherapy or electron beam for colorectal carcinoma. Nag S, et al. **Front Radiat Ther Oncol** 1997;31:238–42

IORT using electron beam or HDR brachytherapy for previously unirradiated head and neck cancers. Nag S, et al. **Front Radiat Ther Oncol** 1997;31:112–6

Intraoperative high–dose–rate brachytherapy after preoperative radiochemotherapy in the treatment of Ewing's sarcoma. Schuck A, et al. **Front Radiat Ther Oncol** 1997;31:153–6

Clinical study of glioma treated with HDR Ir–192 interstitial brachytherapy and surgical resection. Ying S, et al. **Front Radiat Ther Oncol** 1997;31:92

Treatment results of radiotherapy for cervical cancer––experience of Tokyo Women's Medical College over a 25–year period. Okawa T, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:35–42

Laser and brachytherapy in the palliation of adenocarcinoma of the oesophagus and cardia. Spencer GM, et al. **Gut** 1996 Nov;39(5):726–31

Multifractionated high–dose–rate brachytherapy with concomitant daily teletherapy for cervical cancer. Han I, et al. **Gynecol Oncol** 1996 Oct;63(1):71–7

The impact of temporary iodine–125 interstitial implant boost in the primary management of squamous cell carcinoma of the oropharynx. Horwitz EM, et al. **Head Neck** 1997 May;19(3):219–26

Combined treatment with lasertherapy (Nd:YAG) and endocavitary radiation in the palliation of rectal cancer. Conio M, et al. **Hepatogastroenterology** 1996 Nov–Dec; 43(12):1518–22

Increased tumour response of a murine fibrosarcoma to low temperature hyperthermia and low dose rate brachytherapy. Ryu S, et al. **Int J Hyperthermia** 1996 Sep–Oct;12(5):635–43

The effect of combined external beam radiotherapy and brachytherapy on local control and wound complications in patients with high–grade soft tissue sarcomas of the extremity with positive microscopic margin. Alekhteyar KM, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1; 36(2):321–4

Dosimetric considerations for catheter–based beta and gamma emitters in the therapy of neointimal hyperplasia in human coronary arteries [see comments] Amols HI, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):913–21. Comment in: Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):977–9.

Pelvic exenteration for cervix cancer: would additional intraoperative interstitial brachytherapy improve survival? Beitler JJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):143–8

Biochemical disease–free survival following 125I prostate implantation. Beyer DC, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):559–63

The role of brachytherapy in early–stage nasopharyngeal carcinoma. Chang JT, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1019–24

The impact of surgical margin status and use of an interstitial implant on T1, T2 oral tongue cancers after surgery. Chao KS, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1; 36(5):1039–43

Calculation of integrated biological response in brachytherapy. Dale RG, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):633–42

Biological effect of pulsed dose rate brachytherapy with stepping sources if short half–times of repair are present in tissues. Fowler JF, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):877–83

Phase III trial of high and low dose rate interstitial radiotherapy for early oral tongue cancer. Inoue T, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1201–4

Vascular irradiation for the prevention of restenosis after angioplasty: a new application for radiotherapy [editorial; comment] Nath R, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):977–9. Comment on: Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):913–21. Comment on: Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):913–21. Comment on: Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):933–9.

Management of peripheral vascular disease: innovative approaches using radiation therapy. Nori D, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):847–56 (71 ref.)

Selective tumor irradiation by infusional brachytherapy in nonresectable pancreatic cancer: a phase I study. Order SE, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1; 36(5):1117–26

Reproducibility of infusional brachytherapy [letter] Order SE. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1285

Salvage brachytherapy of posterior pharyngeal wall squamous cell carcinoma in a previously irradiated area. Pommier P, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):53–8

Endovascular beta–irradiation after percutaneous transluminal coronary balloon angioplasty. Popowski Y, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):841–5

Posttreatment biopsy results following interstitial brachytherapy in early–stage prostate cancer. Prestidge BR, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1; 37(1):31–9

Long–term outcome with interstitial brachytherapy in the management of patients with early–stage breast cancer treated with breast–conserving therapy. Vicini FA, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):845–52

Radiation for prevention of restenosis: where are we? [editorial] Waksman R, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):959–61

Effect of edema on the post–implant dosimetry of an I–125 prostate implant: a case study. Waterman FM, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):335–9

Factors determining outcome in patients treated with interstitial implantation as a radiation boost for breast conservation therapy. Wazer DE, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):381–93

The Sievert integral revisited: evaluation and extension to 125I, 169Yb, and 192Ir brachytherapy sources. Williamson JF. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1239–50

A histologic study (including DNA quantification and Ki–67 labeling index) in uveal melanomas after brachytherapy with ruthenium plaques. Schilling H, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):2081–92

Intracavitary use of radioactive colloidal phosphorus 32 in the treatment of epithelial ovarian cancer. Saul HM, et al. **J Am Osteopath Assoc** 1996 Dec;96(12):727–32

The impact of intraoperative brachytherapy on surgery of Ewing's sarcoma. Ozaki T, et al. **J Cancer Res Clin Oncol** 1997;123(1):53–6

Innovation in the management of soft tissue sarcomas in infants and young children: high–dose–rate brachytherapy. Nag S, et al. **J Clin Oncol** 1997 Sep;15(9):3075–84

Short–term CT and MR changes in brain tumors following 125I interstitial irradiation. Moringlane JR, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):15–21

Intracavitary irradiation of nasopharyngeal carcinoma using Ir–192 in Foley's catheter. Pattaranutaporn P, et al. **J Med Assoc Thai** 1996 Jan;79(1):31–5

Serial proton magnetic resonance spectroscopy imaging of glioblastoma multiforme after brachytherapy. Wald LL, et al. **J Neurosurg** 1997 Oct;87(4):525–34

Ultrasound guided internal radiotherapy using yttrium–90 glass microspheres for liver malignancies [letter; comment] Ho S, et al. **J Nucl Med** 1997 Jul;38(7):1169–70. Comment on: J Nucl Med 1996 Jun;37(6):958–63.

Clinical fusion of three–dimensional images using Bremsstrahlung SPECT and CT. Parsai EI, et al. **J Nucl Med** 1997 Feb;38(2):319–24

Wide margin resection and brachytherapy for post–irradiation breast cancer recurrence. Chow LW, et al. **J Surg Oncol** 1997 May;65(1):55–6

Clinical indications for brachytherapy. Erickson B, et al. **J Surg Oncol** 1997 Jul;65(3):218–27 (76 ref.)

Biliary tree malignancies: the University of Minnesota experience. Lee CK, et al. **J Surg Oncol** 1997 Aug; 65(4):298–305 (27 ref.)

Physics and basic parameters of brachytherapy. Lee EJ, et al. **J Surg Oncol** 1997 Jun;65(2):143–50 (7 ref.)

Local resection and brachytherapy confined to the lumpectomy site for early breast cancer: a pilot study. Perera F, et al. **J Surg Oncol** 1997 Aug;65(4):263–7; discussion 267–8 (7 ref.)

Results of preoperative intraluminal brachytherapy combined with radical surgery for middle and lower rectal carcinomas. Yanagi H, et al. **J Surg Oncol** 1997 Jun; 65(2):76–81

Long–term results of retropubic permanent 125iodine implantation of the prostate for clinically localized prostatic cancer. Zelefsky MJ, et al. **J Urol** 1997 Jul;158(1):23–9; discussion 29–30

Defining the roles of high dose rate endobronchial brachytherapy and laser resection for recurrent bronchial malignancy. Ornadel D, et al. **Lung Cancer** 1997 Mar; 16(2–3):203–13

Effective palliation for advanced esophageal cancer using intralumenal irradiation. Makarewicz R, et al. **Mater Med Pol** 1996 Jul–Sep;28(3):107–110

A simple method for verifying activity of iodine–125 seeds in rigid absorbable suture. Feygelman V, et al. **Med Dosim** 1996 Winter;21(4):261–2

Problems with rigid seed strand lodging during prostate implantation: a proposed mechanism and solution. Friedland JL, et al. **Med Dosim** 1997 Spring;22(1):17–21

Brachytherapy for residual intra–renal Wilms' tumor [clinical conference] Duckett CP, et al. **Med Pediatr Oncol** 1997 Apr;28(4):316–20

Photon absorbed fractions for cylindrical geometry: homogeneous nonradioactive cylinder containing a homogeneous cylindrical distribution of activity. Dreesen JA, et al. **Med Phys** 1996 Aug;23(8):1447–57

The coupling of anisotropy and radial dose functions for 103Pd and 125I for use with a commercial treatment planning system. Prete JJ, et al. **Med Phys** 1997 Apr; 24(4):523–5

The role of brachytherapy in the treatment and control of central bronchial carcinoma. Macha HN, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):325–8 (23 ref.)

Clinical thermoradiotherapy: the influence of some prognostic parameters on recurrence–free survival. Lešnicar H. **Neoplasma** 1997;44(1):19–24

New method for the evaluation of the response of cultured cell lines to continuous low–dose–rate irradiation from encapsulated iridium–192 seeds with hyperthermia. Adachi H, et al. **Neurol Med Chir (Tokyo)** 1997 Apr;37(4):320–6

Effects of iodine–125 brachytherapy on the proliferative capacity and histopathological features of glioblastoma recurring after initial therapy. Siddiqi SN, et al. **Neurosurgery** 1997 May;40(5):910–7; discussion 917–8

The protective effect of dexamethasone against radiation damage induced by interstitial irradiation in normal monkey brain. Tada E, et al. **Neurosurgery** 1997 Jul;41(1):209–17; discussion 217–9

Visual outcome of eyes with malignant melanoma of the uvea after ruthenium plaque radiotherapy. Summanen P, et al. **Ophthalmic Surg Lasers** 1995 Sep–Oct;26(5):449–60

Brachytherapy in orbital tumors. Tyl JW, et al. **Ophthalmology** 1997 Sep;104(9):1475–9

A prospective quality of life study of patients with oral or pharyngeal carcinoma treated with external beam irradiation with or without brachytherapy. Hammerlid E, et al. **Oral Oncol** 1997 May;33(3):189–96

Automated matching of corresponding seed images of three

simulator radiographs to allow 3D triangulation of implanted seeds. Altschuler MD, et al. **Phys Med Biol** 1997 Feb;42(2):293–302

Accuracy of Monte Carlo photon transport simulation in characterizing brachytherapy dosimeter energy-response artefacts. Das RK, et al. **Phys Med Biol** 1996 Jun; 41(6):995–1006

Dose calculation in brachytherapy for a 192Ir source using a primary and scatter dose separation technique. Russell KR, et al. **Phys Med Biol** 1996 Jun;41(6):1007–24

Fluence non-uniformity effects in air kerma determination around brachytherapy sources. Tölli H, et al. **Phys Med Biol** 1997 Jul;42(7):1301–18

MR imaging during intracavitary brachytherapy of vaginal and cervical cancer: preliminary results. Tardivon AA, et al. **Radiographics** 1996 Nov;16(6):1363–70

International Brachytherapy Meeting, GEC/ESTRO-ABS-GLAC. Tours, Val de Loire, France. 13–15 May, 1996. Abstracts. **Radiother Oncol** 1996 May; 39 Suppl 1:S1–56

Annual brachytherapy meeting. GEC-ESTRO. Stockholm, Sweden, 5–7 May 1997. Abstracts. **Radiother Oncol** 1997 May;43 Suppl 1:S1–35

Combined curative radiation therapy alone in (T1) T2–3 rectal adenocarcinoma: a pilot study of 29 patients. Gerard JP, et al. **Radiother Oncol** 1996 Feb;38(2):131–7

Determination of 3D dose distribution from intracavitary brachytherapy of cervical cancer by MRI of irradiated ferrous sulphate gel. Knutsen BH, et al. **Radiother Oncol** 1997 May;43(2):219–27

Reconstruction accuracy of a dedicated localiser for filmless planning in intra-operative brachytherapy. Kolkman-Deurloo IK, et al. **Radiother Oncol** 1997 Jul; 44(1):73–81

Combined surgery and brachytherapy in the treatment of some cancers of the bladder (partial cystectomy and interstitial iridium-192). Pernot M, et al. **Radiother Oncol** 1996 Feb;38(2):115–20

Constraints in the use of repair half times and mathematical modelling for the clinical application of HDR and PDR treatment schedules as an alternative for LDR brachytherapy. Pop LA, et al. **Radiother Oncol** 1996 Feb; 38(2):153–62

Combined endoluminal and external irradiation of inoperable oesophageal carcinoma. Schraube P, et al. **Radiother Oncol** 1997 Jul;44(1):45–51

External beam and intraluminal radiotherapy for locally advanced bile duct cancer: role and tolerability. Vallis KA, et al. **Radiother Oncol** 1996 Oct;41(1):61–6

Intraoperative echographic localization of iodine 125 episcleral radioactive plaques for posterior uveal melanoma. Harbour JW, et al. **Retina** 1996;16(2):129–34

Retinoblastoma recurrence after iodine 125 plaque application. Spraul CW, et al. **Retina** 1996;16(2):135–8

Stereotactic high-activity brachytherapy for malignant intra-axial brain tumors. Status report as of March, 1995. Bernstein M, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):167–70 (9 ref.)

Afterloading-radiotherapy under hyperbaric oxygenation. Bahnsen J, et al. **Strahlenther Onkol** 1996 Nov;172 Suppl 2:32–3

High-dose rate intracavitary irradiation for carcinoma of the uterine cervix. The adverse effect of treatment prolongation. Chatani M, et al. **Strahlenther Onkol** 1997 Jul;173(7):379–84

High-dose-rate brachytherapy for poor-prognosis, high-grade glioma: (phase II) preliminary results. Micheletti E, et al. **Tumori** 1996 Jul-Aug;82(4):339–44

Should brachytherapy be considered a therapeutic option in localized prostate cancer? Blasko JC, et al. **Urol Clin North Am** 1996 Nov;23(4):633–50 (85 ref.)

Iridium 192 high-dose-rate brachytherapy--a useful alternative therapy for localized prostate cancer? Paul R, et al. **World J Urol** 1997;15(4):252–6

[Intraluminal brachytherapy in tumors of the biliary system] Bruha R. **Vnitr Lek** 1997 Mar;43(3):186–8 (Eng. Abstr.) **(Cze)**

[Internal radiotherapy in prostatic carcinoma; disappointing long-term results of retropubic Iodine-125 implantation (see comments)] Roeleveld TA, et al. **Ned Tijdschr Geneeskd** 1996 Sep 14;140(37):1855–9 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Jan 18;141(3):171–2. **(Dut)**

[Multidisciplinary treatment of superior sulcus (Pancoast) tumors] van Geel AN, et al. **Ned Tijdschr Geneeskd** 1997 Apr 26;141(17):809–13 (Eng. Abstr.) **(Dut)**

[Plaque radiotherapy of uveal malignant melanoma has redeemed its promise (editorial)] Kivelä T. **Duodecim** 1995; 111(16):1521–2 **(Fin)**

[Iridium 192 brachytherapy of supra-tentorial high grade glioma recurring in irradiated areas: technique and preliminary results of the Pitié-Salpêtrière hospital group] Boisserie G, et al. **Bull Cancer Radiother** 1996;83(3):144–52 (20 ref.) (Eng. Abstr.) **(Fre)**

[Radiotherapy and brachytherapy in advanced cancers of the cervix] Haie-Meder C, et al. **Bull Cancer Radiother** 1996; 83(4):360–3 **(Fre)**

[Report of the 1st International Congress of Brachytherapy GEC ESTRO-ABS-GLAC. 13–15 May 1996, Tours, France] Peiffert D. **Bull Cancer Radiother** 1996; 83(3):196–201 **(Fre)**

[High-dose rate endobronchial brachytherapy: results and complications in 189 patients] Taulelle M, et al. **Bull Cancer Radiother** 1996;83(3):127–34 (Eng. Abstr.) **(Fre)**

[Treatment of eyelid carcinomas of 2 cmm or less by contact radiotherapy] Buatois F, et al. **J Fr Ophtalmol** 1996; 19(6–7):405–9 (Eng. Abstr.) **(Fre)**

[Iodine 125 curietherapy of choroidal melanomas. Values of the technique and initial results] Meyer L, et al. **J Fr Ophtalmol** 1996;19(12):755–60 (Eng. Abstr.) **(Fre)**

[Tyndallometry for follow-up of iodine-125 brachytherapy of uveal malignant melanomas. Report of 2 patients] Nguyen NX, et al. **Klin Monatsbl Augenheilkd** 1996 Jul; 209(1):25–30 (Eng. Abstr.) **(Ger)**

[Laparoscopic lymphadenectomy in prostate carcinoma. Experiences with 120 patients] Effert P, et al. **Urologe A** 1996 Sep;35(5):413–7 (Eng. Abstr.) **(Ger)**

[Intracavitary brachytherapy in esophageal neoplasms. Experience at the Radiology Institute of Brescia] La Face B, et al. **Radiol Med (Torino)** 1997 May;93(5):607–12 (Eng. Abstr.) **(Ita)**

[The anal canal: 2 cycles of radiochemotherapy and boost brachytherapy] Valentini V, et al. **Radiol Med (Torino)** 1997 Apr;93(4):451–6 (38 ref.) (Eng. Abstr.) **(Ita)**

[Radiation therapy for uterine cervix cancer: importance of evaluation of pre-treatment tumor size with MR imaging] Sasaoka M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul;57(8):505–9 (Eng. Abstr.) **(Jpn)**

[Theoretical considerations of dose-rate effect for clinical application: a study of pulsed brachytherapy] Shigematsu N, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):595–8 (Eng. Abstr.) **(Jpn)**

[Use of intraluminal brachytherapy for treatment of patients with non-small cell lung cancer in cases of local failure after teleradiotherapy] Makarewicz R, et al. **Pneumonol Alergol Pol** 1996;64(7–8):444–9 (Eng. Abstr.) **(Pol)**

[Combined radiotherapy of uveal melanoma] Brovkina AF, et al. **Vestn Oftalmol** 1997 Mar-Apr;113(2):10–2 (Eng. Abstr.) **(Rus)**

[Criteria for assessing the efficacy of brachytherapy of uveal melanomas, complications of therapy and there prevention] Brovkina AF, et al. **Vestn Oftalmol** 1997 May-Jun; 113(3):14–6 (Eng. Abstr.) **(Rus)**

[High-dose endobronchial brachytherapy in malignant tumors of the lung] Escobar Sacristán J, et al. **Arch Bronconeumol** 1997 Jun;33(6):278–83 (Eng. Abstr.) **(Spa)**

[Photodynamic therapy, laser therapy, brachytherapy, stents. Local control of lung cancer] Hillerdal G. **Lakartidningen** 1997 Jun 18;94(25):2377–9, 2380 (Eng. Abstr.) **(Swe)**

ADVERSE EFFECTS

Radiation related complications after ruthenium plaque radiotherapy of uveal melanoma. Summanen P, et al. **Br J Ophthalmol** 1996 Aug;80(8):732–9

A clinical study of radiation cataract formation in adult life following gamma irradiation of the lens in early childhood [see comments] Wilde G, et al. **Br J Ophthalmol** 1997 Apr; 81(4):261–6. Comment in: Br J Ophthalmol 1997 Apr;81(4):257.

Radiation therapy of cervical cancer with dosimetric prevention of late pelvic complications. Pourquier H, et al. **Bull Cancer Radiother** 1996;83(3):135–43

Modulation of toxicity following external beam irradiation preceded by high-dose rate brachytherapy in inoperable oesophageal cancer. Taal BG, et al. **Eur J Cancer** 1996 Sep;32A(10):1815–8

Radiation choroidal vasculopathy: an indocyanine green angiography study. Amoaku WM, et al. **Eye** 1995;9 (Pt 6):738–44

Acute and late side effects of radiotherapy for ocular disease: an overview. Alberti W. **Front Radiat Ther Oncol** 1997; 30:281–6 (23 ref.)

Metastatic disease, eye retention and visual function in conservative treatment of uveal melanoma. Bornfeld N, et al. **Front Radiat Ther Oncol** 1997;30:97–110

Side effects of photon and proton radiotherapy for ocular melanoma. Hungerford JL, et al. **Front Radiat Ther Oncol** 1997;30:287–93

Tissue changes in normal canine liver following intraoperative brachytherapy. Xia ZG, et al. **Front Radiat Ther Oncol** 1997;31:45–6

Intra- and perioperative complications associated with tandem and colpostat application for cervix cancer. Corn BW, et al. **Gynecol Oncol** 1997 Feb;64(2):224–9

Colonic J pouch-anal reconstruction with gluteus maximus transposition for a post-irradiation rectovaginal fistula. Kusunoki M, et al. **Hepatogastroenterology** 1996 Sep-Oct; 43(11):1339–42

Pulsed low dose rate brachytherapy in a rat model: dependence of late rectal injury on radiation pulse size. Armour EP, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):825–34

The prediction of late rectal complications in patients treated with high dose-rate brachytherapy for carcinoma of the cervix. Clark BG, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):989–93

Low risk of urinary incontinence following prostate brachytherapy in patients with a prior transurethral prostate resection. Wallner K, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):565–9

Low risk of perioperative infection without prophylactic antibiotics for transperineal prostate brachytherapy. Wallner K, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):681–3

High-dose-rate intracavitary brachytherapy (HDR-IC) in treatment of cervical carcinoma: 5-year results and implication of increased low-grade rectal complication on initiation of an HDR-IC fractionation scheme. Wang CJ, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):391–8

Reproducible rat model for comparing late rectal toxicity from different brachytherapy techniques. White JR, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1155–61

Side effects and quality of life in patients receiving high-dose rate brachytherapy. Fieler VK. **Oncol Nurs Forum** 1997 Apr;24(3):545–53

Carcinoma of the cervix: analysis of complications after primary external beam radiation and Ir-192 HDR brachytherapy. Kapp KS, et al. **Radiother Oncol** 1997 Feb; 42(2):143–53

The risk of interstitial radiotherapy of low-grade gliomas. Kreth FW, et al. **Radiother Oncol** 1997 Jun;43(3):253–60

Analysis of risk factors for mandibular bone radionecrosis after exclusive low dose-rate brachytherapy for oral cancer. Lozza L, et al. **Radiother Oncol** 1997 Aug; 44(2):143–7

High dose rate (HDR) and low dose rate (LDR) interstitial irradiation (IRT) of the rat spinal cord. Pop LA, et al. **Radiother Oncol** 1997 Jan;42(1):59–67

[Late bladder complications following radiotherapy of carcinoma of the uterine cervix] Li A, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Dec;30(12):741–3 (Eng. Abstr.) **(Chi)**

[Tumor seeding to the neck through percutaneous applicators of interstitial high-dose-rate brachytherapy for cancer of the tongue: a case report] Nishimura T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):281–2 (Eng. Abstr.) **(Jpn)**

ECONOMICS

Evaluating the cost of therapy for restenosis: considerations for brachytherapy. Weintraub WS. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):949–58

HISTORY

Summary of 125I implantation for carcinoma of prostate: further follow-up of first 100 cases (by H.B. Grossman, MD, M. Batata, MD, B. Hilaris, MD, and W.F. Whitmore, Jr, MD). 1982. Grossman HB, et al. **Semin Urol Oncol** 1997 May;15(2):111–4

[Radium therapy from birth to death. 1896–1976] Pierquin B. **Cancer Radiother** 1997;1(1):5–13 **(Fre)**

INSTRUMENTATION

Interstitial radiotherapy of 25 parasellar/clival meningiomas and 19 meningiomas in the elderly. Analysis of short-term tolerance and responses. Vuorinen V, et al. **Acta Neurochir (Wien)** 1996;138(5):495–508

A reference air kerma rate calibration protocol for a 370 GBq 192Ir high dose rate brachytherapy source. Wallace AB. **Australas Phys Eng Sci Med** 1997 Jun;20(2):64–70

Acceptance testing, commissioning and quality assurance for a 370 GBq 192Ir HDR brachytherapy afterloader. Wallace AB. **Australas Phys Eng Sci Med** 1997 Jun;20(2):112–6

CT appearance of the Syed-Neblett device for interstitial brachytherapy of gynecologic malignancies. Yeung N, et al. **Comput Med Imaging Graph** 1996 Sep-Oct;20(5):403–6

Direct-coupled interstitial ultrasound applicators for simultaneous thermobrachytherapy: a feasibility study. Diederich CJ, et al. **Int J Hyperthermia** 1996 May-Jun; 12(3):401–19

A simple, inexpensive applicator for irradiation of localized areas of the vagina with intracavitary brachytherapy. Amdur RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):965–9

Experimental results with endovascular irradiation via a radioactive stent. Carter AJ, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):797–803

First experiences with superfractionated skin irradiations using large afterloading molds. Fritz P, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):147–57

Evaluation of permanent I-125 prostate implants using radiography and magnetic resonance imaging. Moerland MA, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1; 37(4):927–33

Endovascular brachytherapy: the FDA's perspective [letter] Ryan TA. **Int J Radiat Oncol Biol Phys** 1996 Nov 1; 36(4):992–3

Patient-related factors determining geometry of intracavitary applicators and pelvic dose distribution during cervical cancer brachytherapy. Senkus-Konefka E, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):531–6

An analysis of the effect of ovoid shields in a selectron-LDR cervical applicator on dose distributions in rectum and bladder. Steggerda MJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):237–45

Implementation, uptime, and safety of a pulsed dose rate afterloading machine. van Eijkeren M, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1233–7

Three-dimensional applicator system for carcinoma of the uterine cervix. Weeks KJ, et al.

Int J Radiat Oncol Biol Phys 1997 Jan 15;37(2):455–63
The dose distribution produced by a 32P source for endovascular irradiation [see comments] Xu Z, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):933–9. Comment in: Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):977–9.
Improvement in dosimetry of ultrasound-guided prostate implants with the use of multiple stabilization needles. Feygelmar V, et al. **Med Dosim** 1996 Summer;21(2):109–12
Reduction of the rectal dose in gynecological brachytherapy: modification to the Fletcher-Suit applicator. Rosenblatt E, et al. **Med Dosim** 1996 Fall;21(3):139–43
Dosimetry of a radioactive coronary balloon dilatation catheter for treatment of neointimal hyperplasia. Amols HI, et al **Med Phys** 1996 Oct;23(10):1783–8
Interstitial irradiation of brain tumors, using a miniature radiosurgery device: initial experience. Cosgrove GR, et al. **Neurosurgery** 1997 Mar;40(3):518–23; discussion 523–5
Cystic craniopharyngioma: long-term results after intracavitary irradiation with stereotactically applied colloidal beta-emitting radioactive sources. Voges J, et al. **Neurosurgery** 1997 Feb;40(2):263–9; discussion 269–70
Long-term follow-up after high-activity 125I brachytherapy for pediatric brain tumors. Sneed PK, et al. **Pediatr Neurosurg** 1996 Jun;24(6):314–22
The dose distribution close to an 192Ir wire source: EGS4 Monte Carlo calculations. Cheung YC, et al. **Phys Med Biol** 1997 Feb;42(2):401–6
A well-type ionization chamber geometric correction factor. Meiler RJ, et al. **Phys Med Biol** 1996 Jul;41(7):1141–8
Ion-recombination correction factor ksat for spherical ion chambers irradiated by continuous photon beams. Piermattei A, et al. **Phys Med Biol** 1996 Jun;41(6):1025–35
A straightforward implantation method of radioactive sources by means of the Leksell frame. Koken PW, et al. **Stereotact Funct Neurosurg** 1995;64(4):202–13
Design and comparison of wedge shaped midline block with rectangular block used in early stage cervical cancers. Avadhani JS, et al. **Strahlenther Onkol** 1996 Dec; 172(12):676–80
Influence of brachytherapy applicators geometry on dose distribution in cervical cancer. Senkus-Konefka E, et al. **Strahlenther Onkol** 1997 Jun;173(6):323–9
[Intraoperative radiotherapy in cancers of the pancreas and in recurrent colorectal cancers] Houry S, et al. **Ann Chir** 1996;50(6):438–44 (31 ref.) (Eng. Abstr.) **(Fre)**
[Arthroscopic synovectomy and radiosynoviorthesis] Kerschbaumer F, et al. **Z Rheumatol** 1996 Nov-Dec; 55(6):388–93 (Eng. Abstr.) **(Ger)**
[Endobronchial brachytherapy with high dose rate 192Ir afterloading technique using a new applicator] Nomoto Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan; 56(1):42–7 (Eng. Abstr.) **(Jpn)**
[Radiation therapy for squamous cell carcinoma of uterine cervix using high dose rate intracavitary irradiation] Ogawa Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25;54(12):1155–64 (Eng. Abstr.) **(Jpn)**

METHODS

Iridium-192 interstitial brachytherapy in carcinoma of the tongue. The importance of various tumor and physical parameters. Mohanti BK, et al. **Acta Oncol** 1997;36(2):165–9
Accuracy of dose delivery in gynecological brachytherapy. Tenhunen M, et al. **Acta Oncol** 1997;36(5):527–9
Results following episcleral ruthenium plaque radiotherapy for posterior uveal melanoma. The Swedish experience. Seregard S, et al. **Acta Ophthalmol Scand** 1997 Feb; 75(1):11–6
High dose rate vaginal brachytherapy in early stage endometrial carcinoma: preliminary analysis. Hong JJ, et al. **Am J Clin Oncol** 1997 Jun;20(3):254–8
Radical radiotherapy for carcinoma of the uterine cervix using high dose rate brachytherapy--a preliminary report. Khoo-Tan HS, et al. **Ann Acad Med Singapore** 1996 May; 25(3):367–70
Preliminary experience of infusional brachytherapy using colloidal 32P. Order SE, et al. **Ann Acad Med Singapore** 1996 May;25(3):347–51
Pre-clinical experience with Re-188-RC-160, a radiolabeled somatostatin analog for use in peptide-targeted radiotherapy. Zamora PO, et al. **Anticancer Res** 1997 May-Jun;17(3B):1803–8 (33 ref.)
Potential advantages of treatment of transplanted saphenous vein aorto-coronary artery bypass grafts with beta irradiation to prevent graft occlusion. Smith RG. **Artery** 1997;22(5):278–86 (25 ref.)
Intra-operative implant brachytherapy in the management of soft-tissue sarcomas. Burmeister BH, et al. **Aust N Z J Surg** 1997 Jan;67(1):5–8
High dose rate brachytherapy before external beam irradiation in inoperable oesophageal cancer. Taal BG, et al. **Br J Cancer** 1996 Nov;74(9):1452–7
Short communication: a technique for delivering carbogen with high dose rate intraluminal brachytherapy in carcinoma of the oesophagus; early results and toxicity. Hoskin PJ, et al. **Br J Radiol** 1996 Nov;69(827):1049–51
Intracavitary radiotherapy boosting for nasopharynx cancer. Slevin NJ, et al. **Br J Radiol** 1997 Apr;70:412–4
Bladder dose estimation during intracavitary brachytherapy for carcinoma of the cervix using a single line source system. Tan LT, et al. **Br J Radiol** 1996 Oct;69(826):953–62
Salvage treatment for inoperable neck nodes in head and neck cancer using combined iridium-192 brachytherapy and surgical reconstruction. Cornes PG, et al. **Br J Surg** 1996 Nov;83(11):1620–2
Management of invasive squamous cell carcinoma of the bulbomembranous male urethra with co-ordinated chemo-radiotherapy and genital preservation. Oberfield RA, et al. **Br J Urol** 1996 Oct;78(4):573–8
Radiation catheter-based therapy for prevention of restenosis. Waksman R. **Cardiologia** 1996 Sep;41(9):849–54
Intrauterine high dose rate afterloading brachytherapy: experience of fractionated therapy using a cervical sleeve technique. Tyrie LK, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(6):376–9
Radiation therapy for choroidal and retinal hemangiomas. Augsburger JJ, et al. **Front Radiat Ther Oncol** 1997; 30:265–80 (19 ref.)
Adjunctive plaque radiotherapy after local resection of uveal melanoma. Damato B. **Front Radiat Ther Oncol** 1997; 30:123–32
Dosimetry and design of radioactive eye plaques. Flühs D, et al. **Front Radiat Ther Oncol** 1997;30:26–38
Eye preservation brachytherapy for orbital and adjacent tumors: preliminary results. Kovács G, et al. **Front Radiat Ther Oncol** 1997;30:56–64
Treatment of advanced conjunctival melanoma by external beam irradiation. Kreusel KM, et al. **Front Radiat Ther Oncol** 1997;30:150–3
Postoperative pterygium prevention by radiotherapy with strontium-90 beta-rays. Pajonk F, et al. **Front Radiat Ther Oncol** 1997;30:259–64
Ruthenium-106 eye plaque brachytherapy in the conservative treatment of uveal melanoma: evaluation of 175 patients treated with 150 Gy from 1981-1989. Pötter R, et al. **Front Radiat Ther Oncol** 1997;30:143–9
Berlin symposium on radiotherapy of ocular diseases. An encouraging document of steady progress by means of highly developed interdisciplinary treatment approaches. Willich N. **Front Radiat Ther Oncol** 1997;30:1–7
Combination of laser treatment and intraluminal radiotherapy for malignant dysphagia. Shmueli E, et al. **Gut** 1996 Jun; 38(6):803–5
Perineal template interstitial brachytherapy salvage for recurrent endometrial adenocarcinoma metastatic to the vagina. Nag S, et al. **Gynecol Oncol** 1997 Jul;66(1):16–9
Algorithms for the process management of sealed source brachytherapy. Engler MJ, et al. **Health Phys** 1996 Nov; 71(5):779–85
Assessment of effective dose to staff in brachytherapy. Faulkner K, et al. **Health Phys** 1996 Nov;71(5):727–32
Conformal episcleral plaque therapy. Astrahan MA, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):505–19
Consequences of optimization in PDR brachytherapy--is a routine geometrical optimization recommendable? Berns C, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15; 37(5):1171–80
Radiotherapy with high dose rate brachytherapy boost and concomitant chemotherapy for Stages IIB and III esophageal carcinoma: results of a pilot study. Calais G, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):769–75
Pulsed brachytherapy as a substitute for continuous low dose rate: an in vitro study with human carcinoma cells. Chen CZ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1; 37(1):137–43
A simple method to stabilize the prostate during transperineal prostate brachytherapy. Dattoli M, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):341–2
The use of ultrasonography in the localization of the lumpectomy cavity for interstitial brachytherapy of the breast. DeBiose DA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):755–9
CT-guided interstitial implantation of gynecologic malignancies. Erickson B, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):699–709
Does additional brachytherapy improve the effect of external irradiation? A prospective, randomized study in central lung tumors. Huber RM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):533–40
Dynamics of pear-shaped dimensions and volume of intracavitary brachytherapy in cancer of the cervix: a desirable pear shape in the era of three-dimensional treatment planning. Kim RY, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1193–9
Fractionated high-dose-rate and pulsed-dose-rate brachytherapy: first clinical experience in squamous cell carcinoma of the tonsillar fossa and soft palate. Levendag PC, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):497–506
Endovascular brachytherapy to inhibit coronary artery restenosis: an introduction to the SCRIPPS Coronary Radiation to Inhibit Proliferation Post Stenting trial [editorial] Massullo V, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):973–5
High dose rate intracoronary radiation for inhibition of neointimal formation in the stented and balloon-injured porcine models of restenosis: angiographic, morphometric, and histopathologic analyses. Mazur W, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):777–88
Impact of ultrasound and computed tomography prostate volume registration on evaluation of permanent prostate implants. Narayana V, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):341–6
Impact of differences in ultrasound and computed tomography volumes on treatment planning of permanent prostate implants. Narayana V, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1181–5
A novel system for intracoronary beta-irradiation: description and dosimetric results. Popowski Y, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):923–31
Optimization of permanent 125I prostate implants using fast simulated annealing. Pouliot J, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):711–20
A feasibility study of high dose rate brachytherapy in solitary urinary bladder cancer. Soete G, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):743–7
A new technique for performing Syed-Neblett template interstitial implants for gynecologic malignancies using transrectal-ultrasound guidance. Stock RG, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):819–25
Transperineal ultrasound-guided radioactive seed implantation for organ-confined carcinoma of the prostate. Stokes SH, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):337–41
Pulsed low dose rate brachytherapy for pelvic malignancies. Swift PS, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):811–7
Low-dose-rate brachytherapy as the sole radiation modality in the management of patients with early-stage breast cancer treated with breast-conserving therapy: preliminary results of a pilot trial. Vicini FA, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):301–10
A dosimetry system for 192IR interstitial breast implants performed at the time of lumpectomy. Waterman FM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):229–35
Intracoronary irradiation: dose response for the prevention of restenosis in swine. Weinberger J, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):767–75
Remotely controllable temporary afterloading brachytherapy for malignant brain tumors. Chiou TS. **J Formos Med Assoc** 1997 Jun;96(6):465–8
The use of transrectal ultrasound placement of radioactive seeds for the definitive treatment of prostate cancer. Zachow SE, et al. **J Miss State Med Assoc** 1996 Oct; 37(10):771–5
Permanent low-activity iodine-125 implants for cerebral metastases. Schulder M, et al. **J Neurooncol** 1997 Jul; 33(3):213–21
Clinical trial of external beam-radiotherapy combined with daily administration of low-dose cisplatin for supratentorial glioblastoma multiforme--a pilot study. Shinoda J, et al. **J Neurooncol** 1997 Oct;35(1):73–80
Radionuclide therapy of skin cancers and Bowen's disease using a specially designed skin patch. Lee JD, et al. **J Nucl Med** 1997 May;38(5):697–702
Radiation biology in brachytherapy. Brenner DJ. **J Surg Oncol** 1997 May;65(1):66–70 (22 ref.)
Brachytherapy (seed implantation) for clinically localized prostate cancer. Ragde H. **J Surg Oncol** 1997 Jan; 64(1):79–81
Interstitial implantation techniques in prostate cancer. Sylvester J, et al. **J Surg Oncol** 1997 Sep;66(1):65–75 (65 ref.)
A method to avoid misadministrations in high dose rate brachytherapy. Alecu R, et al. **Med Phys** 1997 Feb; 24(2):259–61
Monte Carlo calculation of dose rate distributions around 192Ir wires. Ballester F, et al. **Med Phys** 1997 Aug; 24(8):1221–8
A method for more efficient source localization of interstitial implants with biplane radiographs. Cai J, et al. **Med Phys** 1997 Aug;24(8):1229–34
Comment on "Analysis of factors affecting the therapeutic gain in high dose rate gynecological implants relative to low dose rate implants" [Med. Phys. 23, 419–425 (1996)] [letter; comment] Dale RG. **Med Phys** 1996 Sep;23(9):1575, 1577. Comment on: Med Phys 1996 Mar;23(3):419–25.
Radiation dose from a phosphorous-32 impregnated wire mesh vascular stent. Janicki C, et al. **Med Phys** 1997 Mar; 24(3):437–45
Measurement and calculation of heterogeneity correction factors for an Ir-192 high dose-rate brachytherapy source behind tungsten alloy and steel shields. Kirov AS, et al. **Med Phys** 1996 Jun;23(6):911–9
A new source localization algorithm with no requirement of one-to-one source correspondence between biplane radiographs. Li S, et al. **Med Phys** 1996 Jun;23(6):921–7
A method for verifying treatment times for simple high-dose-rate endobronchial brachytherapy procedures. Miller AV, et al. **Med Phys** 1996 Nov;23(11):1903–8
Source placement error for permanent implant of the prostate. Roberson PL, et al. **Med Phys** 1997 Feb; 24(2):251–7
A self-collimating convolution backprojection algorithm for optimizing dose distributions of I-125 prostate implants. Siochi RA, et al. **Med Phys** 1997 Feb;24(2):241–9
Measurement of the effective attenuation coefficients with model 6711-(125)I seeds. Sun C, et al. **Med Phys** 1996 Apr; 23(4):545–7
Measurement and calculation of the dose at large distances from brachytherapy sources: Cs-137, Ir-192, and Co-60. Venselaar JL, et al. **Med Phys** 1996 Apr;23(4):537–43
EGS4 dosimetry calculations for cylindrically symmetric brachytherapy sources. Wang R, et al. **Med Phys** 1996 Aug; 23(8):1459–65
A source model for efficient brachytherapy computations

with Monte Carlo. Weaver K, et al. **Med Phys** 1996 Dec; 23(12):2079–84
Comment on "Monte Carlo simulation of Cf-252 dose distribution brachytherapy" [Med. Phys. 23, 707–711 (1996)] [letter] Wierzbicki JG, et al. **Med Phys** 1997 Aug; 24(8):1319; discussion 1321
A nondivergent specification of the mean treatment dose in interstitial brachytherapy. Yu Y. **Med Phys** 1996 Jun; 23(6):905–9
A genetic algorithm for the optimization of prostate implants. Yu Y, et al. **Med Phys** 1996 Dec;23(12):2085–91
Interstitial brachytherapy for intracranial metastases. McDermott MW, et al. **Neurosurg Clin N Am** 1996 Jul; 7(3):485–95
Brachytherapy for penile cancer using silicon mold. Akimoto T, et al. **Oncology** 1997 Jan–Feb;54(1):23–7
Results of newer radiation treatments for prostate cancer [news] **Oncology (Huntingt)** 1997 Jul;11(7):997
Need for confirmation of positioning of ruthenium plaques by postoperative B-scan ultrasonography. Anteby II, et al. **Ophthalmic Surg Lasers** 1996 Dec;27(12):1024–9
Role of interstitial brachytherapy in oral and oropharyngeal carcinoma: reflection of a series of 1344 patients treated at the time of initial presentation. Pernot M, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):519–26
The dose distribution close to an 192Ir wire source: EGS4 Monte Carlo calculations. Cheung YC, et al. **Phys Med Biol** 1997 Feb;42(2):401–6
A well-type ionization chamber geometric correction factor. Meiler RJ, et al. **Phys Med Biol** 1996 Jul;41(7):1141–8
A model for dose estimation in therapy of liver with intraarterial microspheres. Zavgorodni SF. **Phys Med Biol** 1996 Nov;41(11):2463–80
Endobronchial brachytherapy with high-dose-rate remote afterloading for recurrent endobronchial lesions. Delclos ME, et al. **Radiology** 1996 Oct;201(1):279–82
The ICRU 38, a need for a new edition [letter] de Almeida CE, et al. **Radiother Oncol** 1997 Mar;42(3):315–6
Quality assurance of interstitial brachytherapy technique in lip cancer: comparison of actual performance with the Paris System recommendations. Farrús B, et al. **Radiother Oncol** 1996 Feb;38(2):145–51
Changes in applicator position with fractionated high dose rate gynaecological brachytherapy. Hoskin PJ, et al. **Radiother Oncol** 1996 Jul;40(1):59–62
Pilot study of intraoperative high dose rate brachytherapy for head and neck cancer. Nag S, et al. **Radiother Oncol** 1996 Nov;41(2):125–30
Pulsed dose rate (PDR) brachytherapy of anal carcinoma. Roed H, et al. **Radiother Oncol** 1996 Nov;41(2):131–4
Continuous, pulsed or single acute irradiation of a transplanted rodent tumour model. Sethi T, et al. **Radiother Oncol** 1997 May;43(2):203–9
High dose rate Microselectron moulds for Kaposi sarcoma of the palate. Syndikus I, et al. **Radiother Oncol** 1997 Feb; 42(2):167–70
The value of high-dose-rate microsource brachytherapy in the treatment of oesophageal carcinoma [letter] Sur RK, et al. **S Afr Med J** 1997 Jan;87(1):81–2
Brachytherapy and pancreatic cancer. Bodner WR, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):204–7 (21 ref.)
Brachytherapy in primary ocular tumors. Freire JE, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):167–76 (47 ref.)
Applications of brachytherapy in head and neck cancer. Harrison LB. **Semin Surg Oncol** 1997 May–Jun; 13(3):177–84 (25 ref.)
Role of brachytherapy in adult soft tissue sarcomas. Hilaris BS, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):196–203 (20 ref.)
Intracavitary brachytherapy for carcinoma of the esophagus. Micaily B, et al. **Semin Surg Oncol** 1997 May–Jun; 13(3):185–9 (31 ref.)
Brachytherapy for cancer of the female urethra. Micaily B, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):208–14 (29 ref.)
Interstitial brachytherapy procedures for brain tumors. Sneed PK, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):157–66 (50 ref.)
Brachytherapy and breast cancer. White JR, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):190–5 (38 ref.)
HDR and MDR intracavitary treatment for carcinoma of the uterine cervix. A prospective randomized study. el-Baradie M, et al. **Strahlenther Onkol** 1997 Mar; 173(3):155–62
Conformal treatment planning for interstitial brachytherapy. Kovács G, et al. **Strahlenther Onkol** 1996 Sep;172(9):469–74
Brachytherapy for prostate cancer: real-time three-dimensional interactive seed implantation. Stone NN, et al. **Tech Urol** 1995 Summer;1(2):72–80
High dose rate transurethral brachytherapy as a boost dose for localized adenocarcinoma of the prostate. Serin M, et al. **Urol Int** 1997;58(1):30–3
[Internal radiotherapy in prostatic carcinoma; disappointing long-term results of of retropubic Iodine-125 implantation (letter; comment)] Batterman JJ, et al. **Ned Tijdschr Geneeskd** 1997 Jan 18;141(3):171–2. Comment on: Ned Tijdschr Geneeskd 1996 Sep 14;140(37):1855–9. **(Dut)**
[Apropos of failure of exclusive high dose rate interstitial brachytherapy in squamous cell carcinoma of the mobile tongue (letter)] Mazeron JJ, et al. **Bull Cancer Radiother** 1996;83(3):172–3 **(Fre)**
[Endobronchial brachytherapy: the Saint-Louis Hospital experience] Hennequin C, et al. **Cancer Radiother** 1997; 1(2):159–64 (Eng. Abstr.) **(Fre)**
[Iodine-125-brachytherapy of malignant choroid melanoma. II: Long-term functional outcome] Kreissig I, et al. **Klin Monatsbl Augenheilkd** 1996 Jul;209(1):7–12 (Eng. Abstr.) **(Ger)**
[The vaginal stump recurrence rate in endometrial carcinoma in relation to the target volume of postoperative HDR-afterloading brachytherapy] Kloetzer KH, et al. **Strahlenther Onkol** 1997 Jan;173(1):13–7 (Eng. Abstr.) **(Ger)**
[A proposal for dosage and volume specification and documentation in HDR brachytherapy] Krieger H, et al. **Strahlenther Onkol** 1996 Oct;172(10):527–42 (26 ref.) (Eng. Abstr.) **(Ger)**
[Brachytherapy with pulsed dosage. General considerations. Radiobiological considerations. First clinical experience in Mestre (Venice)] Pizzi GB, et al. **Radiol Med (Torino)** 1997 Mar;93(3):260–6 (Eng. Abstr.) **(Ita)**
[Optimization of intraluminal brachytherapy: changes in the irradiated volumes] Zingoni A, et al. **Radiol Med (Torino)** 1996 Oct;92(4):475–6 **(Ita)**
[Improvement in function-preservation in radiotherapy for pediatric malignancies] Sumi M, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):657–65 (33 ref.) (Eng. Abstr.) **(Jpn)**
[Comparison of calculated and measured rectal doses in HDR brachytherapy with Ir-192 source] Kakinohana Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):265–70 (Eng. Abstr.) **(Jpn)**
[Method of calculating TDF biological equivalent for optimal treatment dose in fractionated intracavitary irradiation of carcinoma of the uterine cervix] Kutsutani-Nakamura Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):570–4 (Eng. Abstr.) **(Jpn)**
[Therapeutic ratio of fractionated high-dose-rate against continuous low-dose-rate brachytherapy analyzed by simulation model] Sekine H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):866–73 (Eng. Abstr.) **(Jpn)**
[Results of multimodal treatment combined with remote after-loading system (RALS) for malignant esophageal cancer] Iwasa M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):350–2 **(Jpn)**
[Bronchoscopic brachytherapy: development of bronchoscopic ultrasonography and brachytherapy for early stage lung cancer of hilar type] Ono R. **Nippon Rinsho** 1996 May;54(5):1337–42 (Eng. Abstr.) **(Jpn)**
[Optimization of dose distribution in combined irradiation of uterine cervix cancer with gamma-ray cesium-137 and X-9 MeV] Lewocki M. **Ann Acad Med Stetin** 1996; 42:199–222 (Eng. Abstr.) **(Pol)**
[Intracavitary brachytherapy method using after-loading for treatment of women with endometrial uterine neoplasm] Bratos K, et al. **Ginekol Pol** 1996 Oct;67(10):510–4 (Eng. Abstr.) **(Pol)**
[The results of the use and the method of conducting intracavity laser therapy in chronic nonspecific cystitis in women] al-Shukri SKh. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug; (4):19–20 **(Rus)**
[Current methods in brachytherapy of female genital malignancies] Kanaev SV, et al. **Vopr Onkol** 1997; 43(1):47–53 (25 ref.) (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Side effects and quality of life in patients receiving high-dose rate brachytherapy. Fieler VK. **Oncol Nurs Forum** 1997 Apr;24(3):545–53

STANDARDS

High-dose-rate brachytherapy in the management of high-grade intraepithelial neoplasia of the vagina. MacLeod C, et al. **Gynecol Oncol** 1997 Apr;65(1):74–7
American Brachytherapy Society (ABS) consensus guidelines for brachytherapy of esophageal cancer. Clinical Research Committee, American Brachytherapy Society, Philadelphia, PA. Gaspar LE, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):127–32
HDR source calibration methods and discrepancies. Nair MT, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1; 38(1):207–11
Endovascular brachytherapy: the FDA's perspective [letter] Ryan TA. **Int J Radiat Oncol Biol Phys** 1996 Nov 1; 36(4):992–3
CT-based dosimetry for transperineal I-125 prostate brachytherapy. Willins J, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):347–53
Applications of the Italian protocol for the calibration of brachytherapy sources. Piermattei A, et al. **Phys Med Biol** 1997 Aug;42(8):1661–9
Quality assurance of interstitial brachytherapy technique in lip cancer: comparison of actual performance with the Paris System recommendations. Farrús B, et al. **Radiother Oncol** 1996 Feb;38(2):145–51
Quality assurance in brachytherapy: the role of the ICRU in achieving uniformity in dose and volume specification for reporting. Wambersie A, et al. **Rays** 1996 Oct–Dec; 21(4):541–58 **(Eng, Ita)**

STATISTICS & NUMERICAL DATA

A linear quadratic analysis of gynaecological brachytherapy. Dodds D, et al. **Clin Oncol (R Coll Radiol)** 1996;8(2):90–6

VETERINARY

Interstitial implant brachytherapy in small animals. Walker MA. **Vet Clin North Am Small Anim Pract** 1997 Jan; 27(1):59–71 (6 ref.)

BRACONID VIRUSES see **POLYDNAVIRIDAE**

BRACYTELES see **CEBIDAE**

BRADYARRHYTHMIA see **BRADYCARDIA**

BRADYCARDIA

Maternal hypothermia and persistent fetal bradycardia during the intrapartum process. Reis MJ, et al. **J Obstet Gynecol Neonatal Nurs** 1996 Oct;25(8):674–80
[Dysrhythmias following cardiac surgery] Yamashiro T. **Nippon Rinsho** 1996 Aug;54(8):2227–32 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Sinus bradycardia, sinus tachycardia] Nishikado A, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):395–8 (9 ref.) **(Jpn)**
[Tachycardia and bradycardia dependent paroxysmal A-V block] Taguchi A, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (12):455–7 (16 ref.) **(Jpn)**

CHEMICALLY INDUCED

Severe maternal hypotension and fetal bradycardia after a combined spinal epidural anesthetic. D'Angelo R, et al. **Anesthesiology** 1997 Jul;87(1):166–8
Asystole and severe bradycardia during epidural anesthesia in orthopedic patients. Liguori GA, et al. **Anesthesiology** 1997 Jan;86(1):250–7
Mitoxantrone-induced bradycardia [letter; comment] Benekli M, et al. **Ann Intern Med** 1997 Mar 1;126(5):409. Comment on: Ann Intern Med 1996 Jul 1;125(1):47–58.
Species difference in the 5-hydroxytryptamine3 receptor associated with the von Bezold-Jarisch reflex. Yamano M, et al. **Arch Int Pharmacodyn Ther** 1995 Sep–Oct; 330(2):177–89
Propofol and bradycardia: causation, frequency and severity. Tramèr MR, et al. **Br J Anaesth** 1997 Jun;78(6):642–51 (103 ref.)
Are 5-HT1A receptors involved in the control of reflex bradycardia induced by intracoronary injection of contrast medium in humans? Hatab SA, et al. **Braz J Med Biol Res** 1996 Jun;29(6):769–72
Protamine-induced hypotension and bradycardia in a cardiac transplant patient. Backman SB, et al. **Can J Anaesth** 1997 May;44(5 Pt 1):520–4
Bradycardia following intravenous ketorolac in children [see comments] Foster PN, et al. **Eur J Anaesthesiol** 1997 May; 14(3):307–9. Comment in: Eur J Anaesthesiol 1997 May;14(3):231–5.
Marked increases in heart rate associated with sevoflurane but not with halothane following suxamethonium administration in children. Rieger A, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):616–21
Cannabinoid-induced hypotension and bradycardia in rats mediated by CB1-like cannabinoid receptors. Lake KD, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1030–7
Bradycardia in toluene poisoning. Einav S, et al. **J Toxicol Clin Toxicol** 1997;35(3):295–8
Recent problems with paracervical vasopressin: a possible synergistic reaction with nicotine. Groudine SB, et al. **Med Hypotheses** 1996 Jul;47(1):19–21
Miconazole-induced fatal dysrhythmia. Coley KC, et al. **Pharmacotherapy** 1997 Mar–Apr;17(2):379–82
Fetal bradycardia and uterine hyperactivity following subarachnoid administration of fentanyl during labor. Friedlander JD, et al. **Reg Anesth** 1997 Jul–Aug; 22(4):378–81
[Bradycardia after beginning therapy with metoprolol and paroxetine] König F, et al. **Psychiatr Prax** 1996 Sep; 23(5):244–5 (Eng. Abstr.) **(Ger)**
[Severe bradyarrythmia induced by tricyclic antidepressants in an elderly patient] Lebre AT, et al. **Rev Assoc Med Bras** 1995 Jul–Aug;41(4):271–3 (Eng. Abstr.) **(Por)**
[Derivatives of 2-mercaptobenzimidazole--a new group of specific bradycardic drugs] Chichkanov GG, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):23–6 (Eng. Abstr.) **(Rus)**
[Extreme bradycardia and administration of ranitidine (letter)] Velasco P, et al. **Gastroenterol Hepatol** 1996 Mar; 19(3):186 **(Spa)**
[The risk of severe bradycardia from the use of adenosine triphosphate in pheochromocytoma surgery under total intravenous anesthesia with propofol (letter)] Munar F, et al. **Rev Esp Anestesiol Reanim** 1997 Jun–Jul;44(6):254–5 **(Spa)**
[Sinus bradycardia secondary to systemic pentamidine] Izquierdo Patrón M, et al. **Rev Esp Cardiol** 1996 Dec; 49(12):919–20 (7 ref.) (Eng. Abstr.) **(Spa)**

BRADYCARDIA

COMPLICATIONS

Hypoglycemia manifested by sinus bradycardia: a report of three cases. Pollock G, et al. **Acad Emerg Med** 1996 Jul; 3(7):700–7

Acid accumulation during end-stage bradycardia in term fetuses: how long is too long? Gull I, et al. **Br J Obstet Gynaecol** 1996 Nov;103(11):1096–101

Zones of atrial vulnerability. Relationships to basic cycle length. Friedman HS, et al. **Circulation** 1996 Sep 15; 94(6):1456–64

Acute pericarditis presenting with sinus bradycardia: a case report. Gosselink AT, et al. **Int J Cardiol** 1997 Aug 8; 60(3):307–10

[Bradycardia-induced syncope] Wyss E, et al. **Ther Umsch** 1997 Mar;54(3):144–50 (19 ref.) (Eng. Abstr.) **(Ger)**

CONGENITAL

Transient neonatal bradycardia without heart block associated with anti-Ro antibodies [letter] Cimaz R, et al. **Lupus** 1997;6(5):487–8

DIAGNOSIS

Complete heart block or not [letter; comment] Smith D Jr, et al. **Acad Emerg Med** 1996 Sep;3(9):905. Comment on: Acad Emerg Med 1995 Aug;2(8):751–6.

"Relative" sinus bradycardia. Drew BJ, et al. **Prog Cardiovasc Nurs** 1996 Summer;11(3):47–8

DRUG THERAPY

Glucagon and phenol toxicity [letter] Bey TA, et al. **Ann Emerg Med** 1997 Sep;30(3):353–4

Glucagon therapy in the treatment of symptomatic bradycardia. Love JN, et al. **Ann Emerg Med** 1997 Jan; 29(1):181–3

Morphine blocks the bradycardia associated with severe hemorrhage in the anesthetized rat. Ohnishi M, et al. **Brain Res** 1997 Jul 18;763(1):39–46

Bradycardia after heart transplantation: reversal with theophylline [letter; comment] Heinz G. **J Am Coll Cardiol** 1997 Feb;29(2):470–1. Comment on: J Am Coll Cardiol 1996 Aug;28(2):396–9.

Microinjection of a serotonin3 receptor agonist into the NTS of unanesthetized rats inhibits the bradycardia evoked by activation of the baro- and chemoreflexes. Callera JC, et al. **J Auton Nerv Syst** 1997 Apr 14;63(3):127–36

Use of anticholinergics to treat bradycardia caused by alpha1-adrenergic agonist overdose is not safe [letter; comment] Sprung J, et al. **J Clin Anesth** 1996 Aug; 8(5):426–7. Comment on: J Clin Anesth 1995 Sep;7(6):512–4.

"Relative" sinus bradycardia. Drew BJ, et al. **Prog Cardiovasc Nurs** 1996 Summer;11(3):47–8

[Experiences in therapy of bradycardic cardiac arrhythmias in childhood with ipratropium bromide] Krienke L, et al. **Klin Padiatr** 1997 Jan-Feb;209(1):21–5 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Bradycardia: a late complication following cardiac transplantation. Weinfeld MS, et al. **Am J Cardiol** 1996 Oct 15;78(8):969–71

ETIOLOGY

Prolonged fetal bradycardia secondary to maternal hypothermia in response to urosepsis. Hankins GD, et al. **Am J Perinatol** 1997 Apr;14(4):217–9

Midtrimester genetic amniocentesis of a twin gestation complicated by immediate severe fetal bradycardia with subsequent associated fetal anomalies. Sherer DM, et al. **Am J Perinatol** 1996 Aug;13(6):347–50

Factors associated with hypotension and bradycardia after epidural blockade. Curatolo M, et al. **Anesth Analg** 1996 Nov;83(5):1033–40

Vagal stimulation and myocardial dysfunction [letter; comment] Norman PH, et al. **Anesth Analg** 1996 Oct; 83(4):890. Comment on: Anesth Analg 1996 Feb;82(2):419–20.

Asystole following laryngoscopy and endotracheal intubation: a case report. Cheong KF, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):283–5

Early amniotomy increases the frequency of fetal heart rate abnormalities. Amniotomy Study Group. Goffinet F, et al. **Br J Obstet Gynaecol** 1997 May;104(5):548–53

Severe paroxysmal sinus bradycardia associated with high-frequency oscillatory ventilation. Mellema JD, et al. **Chest** 1997 Jul;112(1):181–5

Hypothyroidism, thyroxine treatment, and the heart [editorial] Gammage M, et al. **Heart** 1997 Mar;77(3):189–90

Rare condition of pacemaker Twiddler's syndrome [letter] Higgins GL 3rd, et al. **J Emerg Med** 1996 Nov-Dec; 14(6):759–60

Profound bradycardia related to long bone fracture manipulation. Marco CA, et al. **J Emerg Med** 1996 May-Jun;14(3):305–8

Transient bradycardia in a mouse model for the oromandibulofacial limb hypogenesis syndrome following chorionic villus sampling. Chang HH, et al. **J Hand Surg [Br]** 1997 Apr;22(2):243–9

Relative bradycardia in infectious diseases. Ostergaard L, et al. **J Infect** 1996 Nov;33(3):185–91

Green tobacco sickness (bradycardia in a young farmer). Edmonson WD. **J Tenn Med Assoc** 1996 Mar;89(3):85–6

Complications of endotracheal intubation in mechanically ventilated patients in a general intensive care unit. Khan FH, et al. **JPMA J Pak Med Assoc** 1996 Sep;46(9):195–8

Bradycardia and asystole induced by partial seizures: a case report and literature review. Devinsky O, et al. **Neurology** 1997 Jun;48(6):1712–4 (10 ref.)

Asymptomatic bradyarrhythmias as a marker for sleep apnea: appropriate recognition and treatment may reduce the need for pacemaker therapy. Stegman SS, et al. **Pacing Clin Electrophysiol** 1996 Jun;19(6):899–904

[Bradycardiac atrial fibrillation after consuming herbal tea] Brustbauer R, et al. **Dtsch Med Wochenschr** 1997 Jul 25; 122(30):930–2 (12 ref.) (Eng. Abstr.) **(Ger)**

[Cardiac arrhythmias of primary and secondary origin in cardiomyopathy] Klein RM, et al. **Internist (Berl)** 1996 Jan; 37(1):18–33 (99 ref.) **(Ger)**

[Cardiotocographic changes after umbilical cord puncture and umbilical cord transfusion] Gremm B, et al. **Zentralbl Gynakol** 1997;119(4):173–6 (Eng. Abstr.) **(Ger)**

[Bradycardia and asystolia secondary to epileptic crisis. Report of a case] Moreno R, et al. **Rev Esp Cardiol** 1996 Aug;49(8):612–4 (Eng. Abstr.) **(Spa)**

GENETICS

Multi-undulant T-U-wave, sinus bradycardia and long QT syndrome: a possible phenotype of mutant genes controlling the inward potassium rectifiers. Shen CT, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jul-Aug;38(4):267–75

HISTORY

Tracing the "disappearance" of two physical signs. Herman J. **Perspect Biol Med** 1996 Autumn;40(1):55–9

METABOLISM

PACAP induces bradycardia in guinea-pig heart by stimulation of atrial cholinergic neurones. Seebeck J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):424–30

PHYSIOPATHOLOGY

Interaction between the bradycardic responses to upper airway negative pressure and carotid chemoreceptor stimulation in the anaesthetised rabbit. Nolan P, et al. **Adv Exp Med Biol** 1996;410:431–7

QT hysteresis and syncope [letter; comment] Hodges M. **Am J Cardiol** 1997 Jul 1;80(1):110. Comment on: Am J Cardiol 1997 Jan 1;79(1):100–2.

Zones of atrial vulnerability. Relationships to basic cycle length. Friedman HS, et al. **Circulation** 1996 Sep 15; 94(6):1456–64

Bradycardia induced from stimulation of the left versus right central nucleus of the amygdala. Healy B, et al. **Epilepsy Res** 1997 Sep;28(2):101–4

Blood flow in the carotid artery during breath-holding in relation to diving bradycardia. Pan AW, et al. **Eur J Appl Physiol** 1997;75(5):388–95

The effect of early second stage bradycardia on newborn status. Loghis C, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Apr;72(2):149–52

ANP enhances bradycardic reflexes in normotensive but not spontaneously hypertensive rats. Thomas CJ, et al. **Hypertension** 1997 May;29(5):1126–32

Sinus node recovery time assessment revisited: role of pharmacologic blockade of the autonomic nervous system. Bergfeldt L, et al. **J Cardiovasc Electrophysiol** 1996 Feb; 7(2):95–101

Induction of paradoxic bradycardia in rats by inferior vena cava occlusion during the administration of isoproterenol: the essential role of augmented sympathetic tone. Waxman MB, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):405–14

Absence of bradycardic response to apnea and hypoxia in heart transplant recipients with obstructive sleep apnea. Madden BP, et al. **J Heart Lung Transplant** 1997 Apr; 16(4):394–7

Facial cooling-induced bradycardia: attenuating effect of central command at exercise onset. Smith JC, et al. **Med Sci Sports Exerc** 1997 Mar;29(3):320–5

Bradycardia during baroreflex stimulation and active or passive stressor tasks: cardiorespiratory fitness and hostility. Graham RE, et al. **Psychophysiology** 1996 Sep;33(5):566–75

Multiple intracardiac tumors: spontaneous prenatal recovery of fetal bradyarrhythmia. Cha'ban FK, et al. **Ultrasound Obstet Gynecol** 1996 Aug;8(2):120–2

[Electrophysiological marker regulated by bradycardia] Pokrovskiĭ VM, et al. **Dokl Akad Nauk** 1996 Jul; 349(3):418–20 **(Rus)**

PREVENTION & CONTROL

A prejunctional mechanism in midbrain periaqueductal gray inhibition of vagal bradycardia in rats. Nosaka S, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R373–82

Verapamil blockade of the paradoxic bradycardia in rats induced by inferior vena cava occlusion during the administration of isoproterenol or calcium: the role of Ca2+. Waxman MB, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1132–40

Eliminating bradyarrhythmias after orthotopic heart transplantation. Rothman SA, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II278–82

Home documented monitoring of cardiorespiratory pattern and oxygen saturation in healthy infants. Hunt CE, et al. **Pediatr Res** 1996 Feb;39(2):216–22

Effect of nursing in the head elevated tilt position (15 degrees) on the incidence of bradycardic and hypoxemic episodes in preterm infants. Jenni OG, et al. **Pediatrics** 1997 Oct;100(4):622–5

[Therapeutic drug monitoring in perioperative period--management of atrial fibrillation in a patient with bradycardia due to relative overdose of digitalis] Murakawa T, et al. **Masui** 1997 Apr;46(4):521–4 (Eng. Abstr.) **(Jpn)**

THERAPY

Flecainide overdose: is cardiopulmonary support the treatment? Yasui RK, et al. **Ann Emerg Med** 1997 May; 29(5):680–2

Termination of implantable pacemaker therapy: experience in five patients. Iskos D, et al. **Ann Intern Med** 1997 May 15;126(10):787–90

Use of temporary atrial pacing in management of patients after cardiac surgery. Takeda M, et al. **Cardiovasc Surg** 1996 Oct;4(5):623–7

Pharmacologic and nonpharmacologic treatment of ventricular arrhythmias in heart failure. Stevenson WG, et al. **Curr Opin Cardiol** 1997 May;12(3):242–50 (80 ref.)

Effect of blood transfusion on apnoea, bradycardia and hypoxaemia in preterm infants. Poets CF, et al. **Eur J Pediatr** 1997 Apr;156(4):311–6

Pacemaker therapy: how do patients cope with the icon of modern antibradycard treatment? [editorial] Schüppel R, et al. **Int J Artif Organs** 1997 Jan;20(1):7–11 (46 ref.)

Bilateral subclavian vein thrombosis soon after pacemaker insertion. Wahbi Z, et al. **Int J Cardiol** 1996 Jun;54(3):272–6

Novel approach to transvenous pacemaker implantation in a post-fontan adolescent. Johnsrude CL, et al. **Pediatr Cardiol** 1997 Jul-Aug;18(4):309–11

[Use of percutaneous anesthesia in cardiac pacemaker implantation] Trigano JA, et al. **Presse Med** 1996 Jul 6–13; 25(24):1097–100 (Eng. Abstr.) **(Fre)**

[Diagnostic value of auto-capture: detection of lead dislocation] Liebold A, et al. **Z Kardiol** 1997 Jul;86(7):521–3 (Eng. Abstr.) **(Ger)**

[Combined therapy with transvenous cardioverter/defibrillator and anti-bradycardia pacemaker systems] Sticherling C, et al. **Z Kardiol** 1997 Feb; 86(2):105–12 (23 ref.) (Eng. Abstr.) **(Ger)**

[Bradyarrhythmia] Matsumoto N, et al. **Nippon Rinsho** 1996 Aug;54(8):2171–6 (28 ref.) (Eng. Abstr.) **(Jpn)**

[The role of prolonged cardiac pacing in management of secondary bradyarrhythmias based on personal experiences] Lelakowski J, et al. **Wiad Lek** 1996; 49(7-12):116–23 (Eng. Abstr.) **(Pol)**

[Pacemaker in bradycardias is sometimes not necessary. Seponation of carbamazepine should be considered] Kennebäck G. **Lakartidningen** 1997 Mar 12;94(11):947–8 (9 ref.) **(Swe)**

ULTRASONOGRAPHY

Isolated persistent fetal bradycardia in complete A-V block: a conservative approach is appropriate. A case report and a review of the literature. Rabinerson D, et al. **Am J Perinatol** 1997 Jul;14(6):317–20 (17 ref.)

BRADYKININ

see related
RECEPTORS, BRADYKININ

Involvement of endogenous nitric oxide in the mechanism of bradykinin-induced peripheral hyperalgesia. Nakamura A, et al. **Br J Pharmacol** 1996 Feb;117(3):407–412

Kinin '95. Proceedings of the 14th International Symposium on Bradykinin and Related Kinins. Denver, Colorado, 10–15 September 1995. **Immunopharmacology** 1996 Jun; 33(1-3):1–390

Involvement of the NO/cyclic GMP pathway in bradykinin-evoked pain from veins in humans. Holthusen H. **Pain** 1997 Jan;69(1-2):87–92

ADMINISTRATION & DOSAGE

Pro-inflammatory effects induced by bradykinin in a murine model of pleurisy. Saleh TS, et al. **Eur J Pharmacol** 1997 Jul 16;331(1):43–52

Potentiation of the biological efficacy of bradykinin by ACE inhibitors: a shift in the affinity of the B2 receptor? Hecker M, et al. **Immunopharmacology** 1996 Jun;33(1-3):93–4

Mechanisms of prostanoid synthesis in human synovial cells: cytokine-peptide synergism. Bathon JM, et al. **Inflammation** 1996 Oct;20(5):537–54

Increased intramuscular concentration of bradykinin increases the static fusimotor drive to muscle spindles in neck muscles of the cat. Pedersen J, et al. **Pain** 1997 Mar; 70(1):83–91

Age-related decline in thirst and sodium appetite in rats related to kininase II inhibition. Rowland NE, et al. **Regul Pept** 1996 Oct 22;66(3):163–7

ADVERSE EFFECTS

Role of tachykinins in bronchoconstriction induced by intravenous administration of bradykinin in guinea-pigs. Kuroiwa C, et al. **Eur Respir J** 1996 Apr;9(4):741-6

AGONISTS

Permeability of the blood brain barrier by the bradykinin agonist, RMP-7: evidence for a sensitive, auto-regulated, receptor-mediated system. Bartus RT, et al. **Immunopharmacology** 1996 Jun;33(1-3):270-8

Dissociation of blood-brain barrier permeability and the hypotensive effects of the bradykinin B2 agonist, RMP-7. Elliott PJ, et al. **Immunopharmacology** 1996 Jun; 33(1-3):205-8

A competitive chemiluminescent enzyme-linked immunosorbent assay for the determination of RMP-7 in human blood. Jordan T, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1653-62

ANALOGS & DERIVATIVES

Beneficial effects of bradykinin on myocardial energy metabolism and infarct size. Linz W, et al. **Am J Cardiol** 1997 Aug 4;80(3A):118A-123A (111 ref.)

Serum interspecies differences in metabolic pathways of bradykinin and [des-Arg9]BK: influence of enalaprilat. Décarie A, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1340-7

Regulation of mitogenesis by kinins in arterial smooth muscle cells. Dixon BS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C7-20

Bradykinin B2 receptor antagonist increases chloride and water absorption in rat medullary collecting duct. Mukai H, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R352-60

Purification, structural characterization, and cardiovascular activity of cod bradykinins. Platzack B, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R710-7

T-kinin has endothelium-dependent vasodilator activity in the cat. Santiago JA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1491-8

Identification of endogenous Des-Arg9-[Hyp3]-bradykinin in human plasma with post-source-decay matrix-assisted laser desorption/ionization mass spectrometry. Schlüter H, et al. **Anal Biochem** 1997 Mar 1;246(1):15-9

Effects of HOE 140 on some renal functions in type I diabetic mice. Zuccollo A, et al. **Arch Physiol Biochem** 1996; 104(2):252-4

Inhibition of angiotensin converting enzyme and potentiation of bradykinin by retro-inverso analogues of short peptides and sequences related to angiotensin I and bradykinin. Carmona AK, et al. **Biochem Pharmacol** 1996 Apr 26; 51(8):1051-60

Threonine(6)-bradykinin: conformational study of a flexible peptide in dimethyl sulfoxide by NMR and ensemble calculations. Pellegrini M, et al. **Biopolymers** 1996; 40(5):561-9

Upregulation of B1 receptor mediating des-Arg9-BK-induced rat paw oedema by systemic treatment with bacterial endotoxin. Campos MM, et al. **Br J Pharmacol** 1996 Mar;117(5):793-8

Central involvement of kinin B1 and B2 receptors in the febrile response induced by endotoxin in rats. Coelho MM, et al. **Br J Pharmacol** 1997 May;121(2):296-302

Characterization of the bradykinin receptor in the human nasal airway using the binding of [125I]-Hoe 140. Dear JW, et al. **Br J Pharmacol** 1996 Nov;119(5):1054-62

The longitudinal muscle of rat ileum as a sensitive monoreceptor assay for bradykinin B1 receptors. Meini S, et al. **Br J Pharmacol** 1996 Apr;117(8):1619-24

Pathway across blood-brain barrier opened by the bradykinin agonist, RMP-7. Sanovich E, et al. **Brain Res** 1995 Dec 24;705(1-2):125-35

Induction of bradykinin B1 hypotensive receptors in rats by lipopolysaccharide. Nicolau M, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):337-40

Effects of B1 and B2 kinin receptor antagonists in diabetic mice. Zuccollo A, et al. **Can J Physiol Pharmacol** 1996 May;74(5):586-9

Preischemic bradykinin and ischaemic preconditioning in functional recovery of the globally ischaemic rat heart. Starkopf J, et al. **Cardiovasc Res** 1997 Jan;33(1):63-70

Role of bradykinin in mediating vascular effects of angiotensin-converting enzyme inhibitors in humans. Hornig B, et al. **Circulation** 1997 Mar 4;95(5):1115-8

Differential effects of kinins on cardiomyocyte hypertrophy and interstitial collagen matrix in the surviving myocardium after myocardial infarction in the rat. Wollert KC, et al. **Circulation** 1997 Apr 1;95(7):1910-7

The effects of a kinin antagonist on changes in lung function and plasma extravasation into the airways following challenge of sensitized guinea-pigs. Featherstone RL, et al. **Clin Exp Allergy** 1996 Feb;26(2):235-40

Kininogen-derived fluorogenic substrates for investigating the vasoactive properties of rat tissue kallikreins--identification of a T-kinin-releasing rat kallikrein. El Moujahed A, et al. **Eur J Biochem** 1997 Jul 15;247(2):652-8

The contribution of peripheral bradykinin B2 receptors to carrageenan-evoked oedema and spinal c-Fos expression in rats. Buritova J, et al. **Eur J Pharmacol** 1997 Feb 5; 320(1):73-80

Characterization of des-Arg9-bradykinin-induced contraction in guinea-pig gallbladder in vitro. Cabrini DA, et al. **Eur J Pharmacol** 1997 Jul 16;331(1):31-8

Role of tachykinin and bradykinin receptors and mast cells in gaseous formaldehyde-induced airway microvascular leakage in rats. Ito K, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):291-8

Effect of the bradykinin B2 receptor antagonist Hoe140 in experimental pneumococcal meningitis in the rat. Lorenzl S, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):335-41

Characterization and localization of bradykinin B2 receptors in the guinea-pig using a radioiodinated HOE140 analogue. Murone C, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1-3):237-47

Ramiprilat attenuates hypoxia/reoxygenation injury to cardiac myocytes via a bradykinin-dependent mechanism. Wall TM, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1-3):165-74

Controlled modulation of BBB permeability using the bradykinin agonist, RMP-7. Bartus RT, et al. **Exp Neurol** 1996 Nov;142(1):14-28

Unlocking the blood-brain barrier: a role for RMP-7 in brain tumor therapy. Elliott PJ, et al. **Exp Neurol** 1996 Oct; 141(2):214-24

Biologic activities of iodinated analogues of Tyr0-bradykinin and bradykinin-Ile10-Tyr11 assessed in the rat uterus and the guinea pig ileum. Cunha V, et al. **Gen Pharmacol** 1996 Jul;27(5):787-94

Structure-activity studies of B1 receptor-related peptides. Antagonists. Gobeil F, et al. **Hypertension** 1996 Nov; 28(5):833-9

Bradykinin B2 receptor modulates renal prostaglandin E2 and nitric oxide. Siragy HM, et al. **Hypertension** 1997 Mar; 29(3):757-62

Comparison of the effects of bradykinin and related compounds on isolated mouse and human uterus. Abbas F, et al. **Immunopharmacology** 1996 Jun;33(1-3):127-9

Efficacy and tolerability of Icatibant (Hoe 140) in patients with moderately severe chronic bronchial asthma. Akbary AM, et al. **Immunopharmacology** 1996 Jun;33(1-3):238-42

Permeability of the blood brain barrier by the bradykinin agonist, RMP-7: evidence for a sensitive, auto-regulated, receptor-mediated system. Bartus RT, et al. **Immunopharmacology** 1996 Jun;33(1-3):270-8

Dissociation of blood-brain barrier permeability and the hypotensive effects of the bradykinin B2 agonist, RMP-7. Elliott PJ, et al. **Immunopharmacology** 1996 Jun; 33(1-3):205-8

T-kinin is resistant to hydrolysis by angiotensin I-converting enzyme. Passaglio KT, et al. **Immunopharmacology** 1996 May;32(1-3):166-8

A new type of bradykinin B2 receptor antagonists: bradykinin analogs with N-alkyl amino acids at position 2. Reissmann S, et al. **Immunopharmacology** 1996 Jun;33(1-3):73-80

An NMR, CD, molecular dynamics and fluorometric study of the conformation of bradykinin antagonists B9340, B9430, B9436 and B9452 in water and in aqueous micellar solutions. Sejbal J, et al. **Immunopharmacology** 1996 Jun; 33(1-3):198-200

Met-Lys-bradykinin-Ser, the kinin released from human kininogen by human pepsin. Silva RA, et al. **Immunopharmacology** 1996 May;32(1-3):76-9

Cellular distribution and fate of the bradykinin antagonist HOE 140 in the rat kidney. Colocalization with the bradykinin B2 receptor. Vio CP, et al. **Immunopharmacology** 1996 Jun;33(1-3):146-50

The effect of bradykinin and the bradykinin antagonist Hoe 140 on kinematic parameters of human spermatozoa. Yeung CH, et al. **Int J Androl** 1996 Jun;19(3):143-9

The N-terminal amino group of [Tyr8]bradykinin is bound adjacent to analogous amino acids of the human and rat B2 receptor. AbdAlla S, et al. **J Biol Chem** 1996 Nov 1; 271(44):27382-7

Stable expression of the human kinin B1 receptor in Chinese hamster ovary cells. Characterization of ligand binding and effector pathways. Austin CE, et al. **J Biol Chem** 1997 Apr 25;272(17):11420-5

Cloning and functional characterization of the ornithokinin receptor. Recognition of the major kinin receptor antagonist, HOE140, as a full agonist. Schroeder C, et al. **J Biol Chem** 1997 May 9;272(19):12475-81

Relative contribution of angiotensin II, bradykinin, and prostaglandins to the renal effects of converting enzyme inhibition in rats after chronic myocardial infarction. Deck CC, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):167-74

Kinin and angiotensin II receptor antagonists in rats with chronic renal failure: chronic effects on cardio- and renoprotection of angiotensin converting enzyme inhibitors. Kohzuki M, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1785-90

Threonine6-bradykinin: structural characterization in the presence of micelles by nuclear magnetic resonance and distance geometry. Pellegrini M, et al. **J Med Chem** 1997 Jan 3;40(1):92-8

Threonine6-bradykinin: molecular dynamics simulations in a biphasic membrane mimetic. Pellegrini M, et al. **J Med Chem** 1997 Jan 3;40(1):99-104

Wound healing following myocardial infarction in the rat: role for bradykinin and prostaglandins. Frimm C de C, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1279-85

Steroids decrease uptake of carboplatin in rat gliomas--uptake improved by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **J Neurooncol** 1997 Sep;34(2):131-8

Intracarotid infusion of RMP-7, a bradykinin analog, and transport of gallium-68 ethylenediamine tetraacetic acid into human gliomas. Black KL, et al. **J Neurosurg** 1997 Apr;86(4):603-9

A competitive chemiluminescent enzyme-linked immunosorbent assay for the determination of RMP-7 in human blood. Jordan T, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1653-62

Cardiovascular effects of Sar-[D-Phe8]des-Arg9-bradykinin, a metabolically protected agonist of B1 receptor for kinins, in the anesthetized rabbit pretreated with a sublethal dose of bacterial lipopolysaccharide. Audet R, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):6-15

Different B1 kinin receptor expression and pharmacology in endothelial cells of different origins and species. Wohlfart P, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1109-16

Mechanism of irritant-induced cough: studies with a kinin antagonist and a kallikrein inhibitor. Featherstone RL, et al. **Lung** 1996;174(4):269-75

Enhanced tumor uptake of carboplatin and survival in glioma-bearing rats by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **Neurosurgery** 1996 Jul;39(1):125-33; discussion 133-4

Effects of the bradykinin B1 receptor antagonist des-Arg9[Leu8]bradykinin and genetic disruption of the B2 receptor on nociception in rats and mice. Rupniak NM, et al. **Pain** 1997 May;71(1):89-97

Stimulus properties and antinociceptive effects of selective bradykinin B1 and B2 receptor antagonists in rats. Sufka KJ, et al. **Pain** 1996 Jul;66(1):99-103

Effects of a bradykinin receptor antagonist (HOE140) on taurocholate-induced acute pancreatitis in rats. Kanbe T, et al. **Pancreas** 1996 Oct;13(3):283-8

Effects of bradykinin receptor antagonist on the release of beta-endorphin and bradykinin and on hemodynamic changes in a canine model of experimental acute pancreatitis. Satake K, et al. **Pancreas** 1996 Jan;12(1):92-7

Isolation and cardiovascular activity of a second bradykinin-related peptide ([Arg0, Trp5, Leu8]bradykinin) from trout. Conlon JM, et al. **Peptides** 1996;17(3):531-7

Effects of captopril and Icatibant on bradykinin (BK) and des [Arg9] BK in carrageenan-induced edema. Decarie A, et al. **Peptides** 1996;17(6):1009-15

Induction of histamine release from rat mast cells by bradykinin analogues. Vietinghoff G, et al. **Peptides** 1996; 17(8):1467-70

Intravenous infusion of RMP-7 increases ocular uptake of ganciclovir. Elliot PJ, et al. **Pharm Res** 1997 Jan;14(1):80-5

Influence of nitric oxide synthase and kinin antagonists on metabolic parameters in chronic streptozotocin-induced diabetes mellitus. González E, et al. **Prostaglandins** 1997 May;53(5):321-36

In vitro selection of a novel catalytic RNA: characterization of a sulfur alkylation reaction and interaction with a small peptide. Wecker M, et al. **RNA** 1996 Oct;2(10):982-94

ANALYSIS

Determination of bradykinin-(1-5) in inflammatory exudate by a new ELISA as a reliable indicator of bradykinin generation. Majima M, et al. **Inflamm Res** 1996 Aug; 45(8):416-23

Atrial natriuretic peptide, bradykinin, and angiotensin II-like immunoreactivity in the harderian gland of the terrapin Pseudemys scripta: response to osmotic stress. Masini MA, et al. **J Exp Zool** 1996 Dec 15;276(6):425-31

Comparative analysis of the distribution of bradykinin-, GYIRFamide- and neuropeptide F-like immunoreactivities in the monogenean, Diclidophora merlangi. Mair GR, et al. **Parasitology** 1997 May;114 (Pt 5):467-73

Effects of captopril and Icatibant on bradykinin (BK) and des [Arg9] BK in carrageenan-induced edema. Decarie A, et al. **Peptides** 1996;17(6):1009-15

[Bradykinin level in bronchoalveolar lavage fluid in patients with extrinsic allergic alveolitis] Ziora D, et al. **Pol Arch Med Wewn** 1996 Jul;96(1):39-44 (Eng. Abstr.) **(Pol)**

ANTAGONISTS & INHIBITORS

Bradykinin antagonists in human systems: correlation between receptor binding, calcium signalling in isolated cells, and functional activity in isolated ileum. Wieczorek M, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):283-91

Attenuation of human nasal airway responses to bradykinin and histamine by inhibitors of nitric oxide synthase. Dear JW, et al. **Br J Pharmacol** 1996 Jul;118(5):1177-82

The effects of a kinin antagonist on changes in lung function and plasma extravasation into the airways following challenge of sensitized guinea-pigs. Featherstone RL, et al. **Clin Exp Allergy** 1996 Feb;26(2):235-40

Reproducibility of airway response to inhaled bradykinin and effect of the neurokinin receptor antagonist FK-224 in asthmatic subjects. Schmidt D, et al. **Eur J Clin Pharmacol** 1996;50(4):269-73

Comparative profile of novel potent bradykinin antagonists at human B1 and B2 receptors. Burkard M, et al. **Immunopharmacology** 1996 Jun;33(1-3):186-90

Novel bradykinin antagonist dimers for the treatment of human lung cancers. Chan D, et al. **Immunopharmacology** 1996 Jun;33(1-3):201-4

BRADYKININ

New bradykinin antagonists having very high potency at B1 receptors. Gera L, et al. **Immunopharmacology** 1996 Jun; 33(1-3):183-5

A new class of bradykinin antagonists containing indanylglycine. Gera L, et al. **Immunopharmacology** 1996 Jun;33(1-3):174-7

A new class of potent bradykinin antagonist dimers. Gera L, et al. **Immunopharmacology** 1996 Jun;33(1-3):178-82

In vivo pharmacological profile of novel, potent, stable BK antagonists at B1 and B2 receptors. Hanson WL, et al. **Immunopharmacology** 1996 Jun;33(1-3):191-3

The bradykinin antagonist CP-0597 can limit the progression of postischemic pancreatitis. Hoffmann TF, et al. **Immunopharmacology** 1996 Jun;33(1-3):243-6

An NMR, CD, molecular dynamics and fluorometric study of the conformation of bradykinin antagonists B9340, B9430, B9436 and B9452 in water and in aqueous micellar solutions. Sejbal J, et al. **Immunopharmacology** 1996 Jun; 33(1-3):198-200

Hybrid peptides having mixed substance P (NK1), neurokinin A (NK2) and bradykinin (BK2) antagonist properties. Srivastava VP, et al. **Immunopharmacology** 1996 Jun; 33(1-3):194-7

A new generation of bradykinin antagonists. Stewart JM, et al. **Immunopharmacology** 1996 Jun;33(1-3):51-60

Protective activity of ketoprofen lysine salt against the pulmonary effects induced by bradykinin in guinea-pigs. Daffonchio L, et al. **Inflamm Res** 1996 May;45(5):259-64

Rationally designed non-peptides: variously substituted piperazine libraries for the discovery of bradykinin antagonists and other G-protein-coupled receptor ligands. Goodfellow VS, et al. **Mol Divers** 1996 Oct;2(1-2):97-102

Tetrandrine blocks voltage-dependent calcium entry and inhibits the bradykinin-induced elevation of intracellular calcium in NG108-15 cells. Bickmeyer U, et al. **Neurotoxicology** 1996 Summer;17(2):335-41

A bradykinin antagonist inhibits both bradykinin- and the allergen-induced airway response in primates. Hogan MB, et al. **Proc Assoc Am Physicians** 1997 May;109(3):269-74

BIOSYNTHESIS

Role of activation of bradykinin B2 receptors in disruption of the blood-brain barrier during acute hypertension. Mayhan WG. **Brain Res** 1996 Nov 4;738(2):337-41

Activation of bradykinin generating cascade by Vibrio cholerae protease. Sakata Y, et al. **Immunopharmacology** 1996 Jun;33(1-3):377-9

BLOOD

Effect of nipradilol on silent myocardial ischemia, plasma beta-endorphin, and bradykinin in chronic stable angina. Takase B, et al. **Clin Cardiol** 1996 Jun;19(6):477-82

Lack of contribution of circulatory kinin elevated by captopril to induce hypotension in normotensive and hypertensive rats. Majima M, et al. **Immunopharmacology** 1996 Jun;33(1-3):291-3

Changes in bradykinin and prostaglandins plasma levels during dextran-sulfate low-density-lipoprotein apheresis. Kojima S, et al. **Int J Artif Organs** 1997 Mar;20(3):178-83

Effects of bradykinin receptor antagonist on the release of beta-endorphin and bradykinin and on hemodynamic changes in a canine model of experimental acute pancreatitis. Satake K, et al. **Pancreas** 1996 Jan;12(1):92-7

CHEMICAL SYNTHESIS

Chimeric strategies for the rational design of bioactive analogs of small peptide hormones. Howl J, et al. **FASEB J** 1997 Jun;11(7):582-90

CHEMISTRY

The N terminus of bradykinin when bound to the human bradykinin B2 receptor is adjacent to extracellular Cys20 and Cys277 in the receptor. Herzig MC, et al. **J Biol Chem** 1996 Nov 22;271(47):29746-51

Characterization of the conformational domains of bradykinin by computational methods. Perez JJ, et al. **J Pept Sci** 1995 Jul-Aug;1(4):227-35

Multiple bradykinin-related peptides from the skin of the frog, Rana temporaria. Conlon JM, et al. **Peptides** 1997; 18(3):361-5

DIAGNOSTIC USE

Effects of experimental rhinovirus 16 infection on airway hyperresponsiveness to bradykinin in asthmatic subjects in vivo. Grünberg K, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):833-8

Differential inhibitory effect of regular inhaled corticosteroid on airway responsiveness to adenosine 5' monophosphate, methacholine, and bradykinin in symptomatic children with recurrent wheeze. Doull IJ, et al. **Pediatr Pulmonol** 1997 Jun;23(6):404-11

[Tachyphylaxis of airway response to inhaled bradykinin over several days] Schmidt D, et al. **Pneumologie** 1996 Nov; 50(11):779-82 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

Angiotensin I-converting enzyme inhibitors potentiate bradykinin's inotropic effects independently of blocking its inactivation. Minshall RD, et al. **Am J Cardiol** 1997 Aug 4;80(3A):132A-136A

B2-kininergic action of linear and cyclic tryptophan6- and tyrosine6-kallidin. Piek T, et al. **Life Sci** 1996; 59(25-26):PL391-7

ISOLATION & PURIFICATION

Multiple bradykinin-related peptides from the skin of the frog, Rana temporaria. Conlon JM, et al. **Peptides** 1997; 18(3):361-5

METABOLISM

Bradykinin and endothelial-cardiac myocyte interactions in ischemic preconditioning. Parratt JR, et al. **Am J Cardiol** 1997 Aug 4;80(3A):124A-131A (49 ref.)

Serum interspecies differences in metabolic pathways of bradykinin and [des-Arg9]BK: influence of enalaprilat. Décarie A, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1340-7

Analysis of responses to bradykinin in the rat hindquarters vascular bed. Nossaman BD, et al. **Am J Physiol** 1997 Feb; 272(2 Pt 2):R631-9

Renin-angiotensin system modulates renal bradykinin production. Siragy HM, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1090-5

Absorption of kininogen from human plasma by Streptococcus pyogenes is followed by the release of bradykinin. Ben Nasr A, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):657-60

Effect of new peptide inhibitors on the ratio of angiotensin I-converting and kinin-degrading activities of dipeptidyl carboxypeptidase (angiotensin-converting enzyme). Kalinina EV, et al. **Biochemistry (Mosc)** 1997 Mar; 62(3):247-50

Degradation of bradykinin by bovine tracheal epithelium and isolated epithelial cells. Dendorfer A, et al. **Br J Pharmacol** 1997 Jan;120(1):121-9

Selective labelling of bradykinin receptor subtypes in WI38 human lung fibroblasts. Phagoo SB, et al. **Br J Pharmacol** 1996 Nov;119(5):863-8

Spontaneously released substance P and bradykinin from isolated guinea-pig bladder. Saban R, et al. **Br J Urol** 1997 Apr;79(4):516-24

An NMR study of the interaction of 15N-labelled bradykinin with an antibody mimic of the bradykinin B2 receptor. Ottleben H, et al. **Eur J Biochem** 1997 Mar 1;244(2):471-8

Bradykinin levels during experimental nasal infection with rhinovirus and attenuated influenza virus. Shibayama Y, et al. **Immunopharmacology** 1996 Jun;33(1-3):311-3

Biosynthesis of endothelium-derived nitric oxide by bradykinin as endogenous precursor. Volpe AR, et al. **Immunopharmacology** 1996 Jun;33(1-3):287-90

Enzymatic digestion of bradykinin by rat Sertoli cell cultures. Monsees TK, et al. **J Androl** 1996 Jul-Aug;17(4):375-81

Stable expression of the human kinin B1 receptor in Chinese hamster ovary cells. Characterization of ligand binding and effector pathways. Austin CE, et al. **J Biol Chem** 1997 Apr 25;272(17):11420-5

Bradykinin sequesters B2 bradykinin receptors and the receptor-coupled Galpha subunits Galphaq and Galphai in caveolae in DDT1 MF-2 smooth muscle cells. de Weerd WF, et al. **J Biol Chem** 1997 Jul 11;272(28):17858-66

Angiotensin and bradykinin peptides in rats with myocardial infarction. Duncan AM, et al. **J Card Fail** 1997 Mar; 3(1):41-52

Effects of angiotensin-converting enzyme inhibition on angiotensin and bradykinin peptides in rats with myocardial infarction. Duncan AM, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):746-54

Inhibition of both aminopeptidase P and angiotensin-converting enzyme prevents bradykinin degradation in the rat coronary circulation. Erşahin C, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):96-101

Enalaprilat, an angiotensin-converting enzyme inhibitor, enhances functional preservation during long-term cardiac preservation. Possible involvement of bradykinin and PKC. Yang X, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1445-52

Bradykinin metabolism in the liver and lung of the rat. Griswold JA, et al. **J Surg Res** 1996 Nov;66(1):12-20

Bradykinin generation triggered by Pseudomonas proteases facilitates invasion of the systemic circulation by Pseudomonas aeruginosa. Sakata Y, et al. **Microbiol Immunol** 1996;40(6):415-23

Assembly of human contact phase proteins and release of bradykinin at the surface of curli-expressing Escherichia coli. Ben Nasr A, et al. **Mol Microbiol** 1996 Jun; 20(5):927-35

Involvement of 5-hydroxytryptamine and bradykinin in the hyperalgesia induced in rats by collagenase from Clostridium histolyticum. Damas J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):566-70

Localization of bradykinin-like immunoreactivity in the rat spinal cord: effects of capsaicin, melittin, dorsal rhizotomy and peripheral axotomy. Lopes P, et al. **Neuroscience** 1997 May;78(2):481-97

Bradykinin receptors in cultured rat dorsal root ganglion cells: influence of length of time in culture. Segond von Banchet G, et al. **Neuroscience** 1996 Dec;75(4):1211-8

Isolation and characterization of a bradykinin potentiating peptide (BPP-S) isolated from Scaptocosa raptoria venom. Ferreira LA, et al. **Toxicon** 1996 May;34(5):599-603

PHARMACOLOGY

Comparison of the vasodilatory effects of bradykinin in isolated dog renal arteries and in buffer-perfused dog kidneys. Malomvölgyi B, et al. **Acta Physiol Hung** 1996; 84(1):9-18

5-Hydroxytryptamine, angiotensin and bradykinin transiently increase intracellular calcium concentrations and PKC-alpha activity, but do not induce mitogenesis in human vascular smooth muscle cells. Assender JW, et al. **Acta Physiol Scand** 1997 Jul;160(3):207-17

Effects of bradykinin, histamine and serotonin on pulmonary vascular resistance and permeability. Breil I, et al. **Acta Physiol Scand** 1997 Mar;159(3):189-98

Epimer-specific actions of hepoxilins A3 and B3 on PAF- and bradykinin-evoked vascular permeability in the rat skin in vivo. Wang MM, et al. **Adv Exp Med Biol** 1996; 416:239-41

Coronary segmental responses to acetylcholine and bradykinin in patients with atherosclerotic risk factors. Kato M, et al. **Am J Cardiol** 1997 Sep 15;80(6):751-5

Bradykinin-mediated relaxation of isolated maternal resistance arteries in normal pregnancy and preeclampsia. Knock GA, et al. **Am J Obstet Gynecol** 1996 Dec; 175(6):1668-74

Vasodilator responses to acetylcholine, bradykinin, and substance P are mediated by a TEA-sensitive mechanism. Champion HC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R414-22

Cholinergic modulation of the Ca2+ response to bradykinin in neuroblastoma cells. Coggan JS, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C612-7

Repeated cocaine administration reduces bradykinin-induced dilation of pial arterioles. Copeland JR, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1576-83

Regulation of mitogenesis by kinins in arterial smooth muscle cells. Dixon BS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C7-20

Substance P and bradykinin stimulate plasma extravasation in the mouse gastrointestinal tract and pancreas. Figini M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G785-93

Interleukin-1 beta potentiates bradykinin-induced macromolecular efflux from hamster oral mucosa. Gao XP, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R294-301

Flow- and bradykinin-induced nitric oxide production by endothelial cells is independent of membrane potential. Gooch KJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C546-51

Regional myocardial effects of intracoronary bradykinin in conscious dogs. Houel R, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 2):H1266-74

Pharmacological activation changes stiffness of cultured human airway smooth muscle cells. Hubmayr RD, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1660-8

Bradykinin-mediated activation of renal sensory neurons due to prostaglandin-dependent release of substance P. Kopp UC, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R2009-16

Tyrosine phosphorylation and activation of pp60c-src and pp125FAK in bradykinin-stimulated fibroblasts. Lee KM, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1430-7

Cardiovascular effects of homologous bradykinin in rainbow trout. Olson KR, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1112-20

Enhanced responsiveness of cardiac vagal chemosensitive endings to bradykinin in heart failure. Schultz HD, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R637-45

Lactic acid potentiates bradykinin- and low-pH-induced release of CGRP from rat spinal cord slices. Wang X, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E92-8

Effects of bradykinin on lymphatic pumping in rat mesentery. Yokoyama S, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G752-6

Bradykinin potentiates the chemoresponsiveness of rat cutaneous C-fibre polymodal nociceptors to interleukin-2. Martin HA. **Arch Physiol Biochem** 1996;104(2):229-38

Bradykinin-stimulated protein tyrosine phosphorylation promotes endothelial nitric oxide synthase translocation to the cytoskeleton. Venema VJ, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):703-10

Effects of bradykinin on NIH 3T3 fibroblasts pretreated with lithium. Mimicking events of Ha-ras oncogene expression. Ritter M, et al. **Biochim Biophys Acta** 1997 Aug 21; 1358(1):23-30

Mechanism of Bradykinin-induced histamine release from rat peritoneal mast cells. Zhao QE, et al. **Biol Pharm Bull** 1996 Feb;19(2):237-40

Bradykinin stimulates interleukin-6 and interleukin-8 secretion of human decidua derived cells. Rehbock J, et al. **Br J Obstet Gynaecol** 1997 Apr;104(4):495-9

Self-limiting enhancement by nitric oxide of oxygen free radical-induced endothelial cell injury: evidence against the dual action of NO as hydroxyl radical donor/scavenger. Az-ma T, et al. **Br J Pharmacol** 1996 Oct;119(3):455-62

Signalling pathways in bradykinin- and nitric oxide-induced hypotension in the normotensive rat; role of K+-channels. Berg T, et al. **Br J Pharmacol** 1997 Jul;121(6):1113-20

Evidence for mediation by endothelium-derived hyperpolarizing factor of relaxation to bradykinin in the bovine isolated coronary artery independently of voltage-operated Ca2+ channels. Drummond GR, et al. **Br J Pharmacol** 1996 Mar;117(6):1035-40

Mechanism of contraction induced by bradykinin in the rabbit saphenous vein. Eguchi D, et al. **Br J Pharmacol** 1997 Feb;

120(3):371–8
Bradykinin and changes in microvascular permeability in the hamster cheek pouch: role of nitric oxide. Félétou M, et al. **Br J Pharmacol** 1996 Jul;118(6):1371–6
Effect of cold storage in University of Wisconsin solution on the responses of porcine hepatic arteries to 5–hydroxytryptamine and bradykinin in vitro. Flanders S, et al. **Br J Pharmacol** 1996 Jan;117(1):142–6
Effects of FR173657, a non–peptide B2 antagonist, on kinin–induced hypotension, visceral and peripheral oedema formation and bronchoconstriction. Griesbacher T, et al. **Br J Pharmacol** 1997 Mar;120(5):933–9
ACE inhibitor potentiation of bradykinin–induced venoconstriction. Hecker M, et al. **Br J Pharmacol** 1997 Aug;121(7):1475–81
The effects of bradykinin on K+ currents in NG108–15 cells treated with U73122, a phospholipase C inhibitor, or neomycin. Hildebrandt JP, et al. **Br J Pharmacol** 1997 Mar; 120(5):841–50
The role of endogenous bradykinin in blood pressure homeostasis in spontaneously hypertensive rats. Holte HR, et al. **Br J Pharmacol** 1996 Aug;118(8):1925–30
Effects of trout bradykinin on the motility of the trout stomach and intestine: evidence for a receptor distinct from mammalian B1 and B2 subtypes. Jensen J, et al. **Br J Pharmacol** 1997 Jun;121(3):526–30
Evidence that mechanisms dependent and independent of nitric oxide mediate endothelium–dependent relaxation to bradykinin in human small resistance–like coronary arteries. Kemp BK, et al. **Br J Pharmacol** 1997 Mar;120(5):757–62
Bradykinin–induced contractions of canine saphenous veins: mediation by B2 receptors and involvement of eicosanoids. Marsault R, et al. **Br J Pharmacol** 1997 Jan;120(2):215–20
Endothelium–dependent relaxation and hyperpolarization evoked by bradykinin in canine coronary arteries: enhancement by exercise–training. Mombouli JV, et al. **Br J Pharmacol** 1996 Feb;117(3):413–418
Characterization of endothelium–derived relaxing factors released by bradykinin in human resistance arteries. Ohlmann P, et al. **Br J Pharmacol** 1997 Jun;121(4):657–64
Central B2 receptor involvement in the antinociceptive effect of bradykinin in rats. Pelá IR, et al. **Br J Pharmacol** 1996 Jul;118(6):1488–92
Contribution of calcium–activated potassium channels to the vasodilator effect of bradykinin in the isolated, perfused kidney of the rat. Rapacon M, et al. **Br J Pharmacol** 1996 Jul;118(6):1504–8
The expression of functionally–coupled B2–bradykinin receptors in human corneal epithelial cells and their pharmacological characterization with agonists and antagonists. Wiernas TK, et al. **Br J Pharmacol** 1997 Jun; 121(4):649–56
Cardiovascular effects produced by bradykinin microinjection into the nucleus tractus solitarii of anesthetized rats. Caligiorne SM, et al. **Brain Res** 1996 May 13;720(1–2):183–90
Excitatory effects of algesic compounds on neuronal processes in murine dorsal root ganglion cell culture. Noda K, et al. **Brain Res** 1997 Mar 21;751(2):348–51
M–current suppression in PC12 cells by bradykinin is mediated by a pertussis toxin–insensitive G–protein and modulated by intracellular calcium. Villarroel A. **Brain Res** 1996 Nov 18;740(1–2):227–33
Recombinant neutral endopeptidase decreases oedema in the skin of burned guinea–pigs. Neely AN, et al. **Burns** 1996 Nov;22(7):520–3
In vitro and in vivo characterization of bradykinin B2 receptors in the rabbit and the guinea pig. Gobeil F, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):137–44
P450 arachidonate metabolites mediate bradykinin–dependent inhibition of NaCl transport in the rat thick ascending limb. Grider JS, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):91–6
Induction of bradykinin B1 hypotensive receptors in rats by lipopolysaccharide. Nicolau M, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):337–40
Bradykinin modulation of isolated rabbit heart function is mediated by intrinsic cardiac neurons. Izrailtyan I, et al. **Cardiovasc Res** 1997 Mar;33(3):641–9
Glucose elevations alter bradykinin–stimulated intracellular calcium accumulation in cultured endothelial cells. Pieper GM, et al. **Cardiovasc Res** 1997 Apr;34(1):169–78
Lipopolysaccharide and cytokines enhance bradykinin–stimulated production of PGI2 by cultured human pulmonary artery smooth muscle cells. Wen FQ, et al. **Cell Biol Int** 1997 May;21(5):321–7
Ca2+ signaling in endothelial cells stimulated by bradykinin: Ca2+ measurement in the mitochondria and the cytosol by confocal microscopy. Donnadieu E, et al. **Cell Calcium** 1996 Jul;20(1):53–61
Temperature dependence of agonist–stimulated Ca2+ signaling in cultured endothelial cells. Paltauf–Doburzynska J, et al. **Cell Calcium** 1997 Jan; 21(1):43–51
Synchronized Ca2+ oscillations induced in Madin Darby canine kidney cells by bradykinin and thrombin but not by ATP. Røttingen JA, et al. **Cell Calcium** 1997 Mar; 21(3):195–211
Effect of forskolin on bradykinin–induced calcium mobilization in cultured canine tracheal smooth muscle cells. Luo SF, et al. **Cell Signal** 1997 Feb;9(2):159–67
Bradykinin and its metabolite, Arg–Pro–Pro–Gly–Phe, are selective inhibitors of alpha–thrombin–induced platelet activation [published erratum appears in Circulation 1996 Oct 1;94(7):1794] Hasan AA, et al. **Circulation** 1996 Aug 1;94(3):517–28
Bradykinin mediation of Ca(2+)–activated K+ channels regulates coronary blood flow in ischemic myocardium. Node K, et al. **Circulation** 1997 Mar 18;95(6):1560–7
Synergistic effects of Bay K 8644 and bradykinin on norepinephrine release in the hypothalamus of spontaneously hypertensive rats. Tsuda K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S54–7
Amlodipine and benazeprilat differently affect the responses to endothelin–1 and bradykinin in porcine ciliary arteries: effects of a low and high dose combination. Lang MG, et al. **Curr Eye Res** 1997 Mar;16(3):208–13
Bradykinin–induced airway microvascular leakage is potentiated by enalaprilat but not by phosphoramidon. Klitzman D, et al. **Enzyme Protein** 1994–95;48(4):191–6
Decrease of bradykinin–induced glomerular contraction in diabetic rat: a new cellular interpretation. Ouardani M, et al. **Eur J Cell Biol** 1997 Jul;73(3):232–9
Antioedematogenic and antinociceptive actions of NPC 18521, a novel bradykinin B2 receptor antagonist. De Campos RO, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2–3):277–86
Possible role of nitric oxide in the antinociceptive action of intraventricular bradykinin in mice. Germany A, et al. **Eur J Pharmacol** 1996 Aug 29;310(2–3):123–7
Role of bradykinin B2 receptors and mast cells in the bradykinin–induced skin response in the rat. Morishita M, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):149–54
Effects of angiotensin–converting enzyme and neutral endopeptidase inhibitors: influence of bradykinin. Pham I, et al. **Eur J Pharmacol** 1996 Feb 5;296(3):267–76
In vivo and in vitro homologous desensitization of rat glomerular bradykinin B2 receptors. Praddaude F, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):173–82
Arachidonic acid products–mediated contraction induced by bradykinin in relaxed mesenteric arterial rings from Holtzman rats. Weinberg ML, et al. **Eur J Pharmacol** 1997 Feb 12;320(2–3):145–50
Coronary effects of exogenous and endogenous bradykinin in conscious dogs. Puybasset L, et al. **Fundam Clin Pharmacol** 1997;11(4):322–30
Potentiation of bradykinin–induced inositol phosphates production by cyclic AMP elevating agents and endothelin–1 in cultured astrocytes. Chen CC, et al. **Glia** 1996 Mar;16(3):210–7
Effects of the prolonged administration of bradykinin on the rat pituitary–adrenocortical axis. Malendowicz LK, et al. **Histol Histopathol** 1996 Jul;11(3):641–5
Angiotensin–(1–7) induces bradykinin–mediated hypotensive responses in anesthetized rats. Abbas A, et al. **Hypertension** 1997 Aug;30(2 Pt 1):217–21
Effect of high salt intake in mutant mice lacking bradykinin–B2 receptors. Alfie ME, et al. **Hypertension** 1997 Jan;29(1 Pt 2):483–7
Amplification of kinin–induced hypotension by nitric oxide synthesis in spontaneously hypertensive rats. Bjørnstad–Ostensen A, et al. **Hypertension** 1997 Jan;29(1 Pt 1):53–7
Use–dependent loss of acetylcholine– and bradykinin–mediated vasodilation after nitric oxide synthase inhibition. Evidence for preformed stores of nitric oxide–containing factors in vascular endothelial cells. Davisson RL, et al. **Hypertension** 1996 Sep;28(3):354–60
Angiotensin–(1–7) augments bradykinin–induced vasodilation by competing with ACE and releasing nitric oxide. Li P, et al. **Hypertension** 1997 Jan;29(1 Pt 2):394–400
Potentiation of the hypotensive effect of bradykinin by short–term infusion of angiotensin–(1–7) in normotensive and hypertensive rats. Lima CV, et al. **Hypertension** 1997 Sep;30(3 Pt 2):542–8
Thromboxane A2 mediates the stimulation of inositol 1,4,5–trisphosphate production and intracellular calcium mobilization by bradykinin in neonatal rat ventricular cardiomyocytes. Nakamura F, et al. **Hypertension** 1996 Sep; 28(3):444–9
Investigation into the role of cyclooxygenase products in the bradykinin response on isolated human myometrium and umbilical artery. Abbas F, et al. **Immunopharmacology** 1996 Jun;33(1–3):123–6
Comparison of the effects of bradykinin and related compounds on isolated mouse and human uterus. Abbas F, et al. **Immunopharmacology** 1996 Jun;33(1–3):127–9
A preliminary study of prostaglandin release by bradykinin (BK) on isolated human myometrium. Abbas F, et al. **Immunopharmacology** 1996 Jun;33(1–3):130–2
The contribution of histamine to the action of bradykinin in the human nasal airway. Austin CE, et al. **Immunopharmacology** 1996 Sep;34(2–3):181–9
The effect of bradykinin and substance P on the arachidonate cascade of platelets. Gecse A, et al. **Immunopharmacology** 1996 Jun;33(1–3):167–70
The B2 receptor on cultured human decidua cells: release of arachidonic acid by bradykinin. Rehbock J, et al. **Immunopharmacology** 1996 Jun;33(1–3):164–6
Kinin–induced stimulation of bovine sperm motility and its relation to seminal plasma tissue kallikrein. Somlev B, et al. **Immunopharmacology** 1996 Jun;33(1–3):137–9
Biosynthesis of endothelium–derived nitric oxide by bradykinin as endogenous precursor. Volpe AR, et al. **Immunopharmacology** 1996 Jun;33(1–3):287–90
Vasomotor and permeability effects of bradykinin in the cerebral microcirculation. Wahl M, et al. **Immunopharmacology** 1996 Jun;33(1–3):257–63 (67 ref.)
Central modulation of Brewer's yeast–induced peripheral inflammation by neuropeptides bradykinin and substance P. Hore SK, et al. **Indian J Physiol Pharmacol** 1996 Oct; 40(4):367–71
Role of tachykinins in enhancement of bradykinin–induced bronchoconstriction by captopril. Arakawa M, et al. **Inflamm Res** 1996 Feb;45(2):75–82
Bradykinin antagonizes the effects of alpha–thrombin. Ehringer WD, et al. **Inflammation** 1997 Jun;21(3):279–98
The effect of bradykinin and the bradykinin antagonist Hoe 140 on kinematic parameters of human spermatozoa. Yeung CH, et al. **Int J Androl** 1996 Jun;19(3):143–9
Relaxation by bradykinin in porcine ciliary artery. Role of nitric oxide and K(+)–channels. Zhu P, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1761–7
Loop diuretics attenuate bradykinin–induced increase in clearance of macromolecules in the oral mucosa. Gao XP, et al. **J Appl Physiol** 1996 Mar;80(3):818–23
Effect of thromboxane A2–receptor antagonist on bradykinin–induced bronchoconstriction in asthma. Rajakulasingam K, et al. **J Appl Physiol** 1996 Jun; 80(6):1973–7
Endogenous bradykinin in the thoracic spinal cord contributes to the exercise pressor reflex. Stebbins CL, et al. **J Appl Physiol** 1996 Sep;81(3):1288–94
Tyrosine phosphorylation of GSalpha and inhibition of bradykinin–induced activation of the cyclic AMP pathway in A431 cells by epidermal growth factor receptor. Liebmann C, et al. **J Biol Chem** 1996 Dec 6; 271(49):31098–105
Effects of intracellular tyrosine residue mutation and carboxyl terminus truncation on signal transduction and internalization of the rat bradykinin B2 receptor. Prado GN, et al. **J Biol Chem** 1997 Jun 6;272(23):14638–42
Bombesin, bradykinin, vasopressin, and phorbol esters rapidly and transiently activate Src family tyrosine kinases in Swiss 3T3 cells. Dissociation from tyrosine phosphorylation of p125 focal adhesion kinase. Rodríguez–Fernández JL, et al. **J Biol Chem** 1996 Nov 1;271(44):27895–901
Critical role of calcium– dependent epidermal growth factor receptor transactivation in PC12 cell membrane depolarization and bradykinin signaling. Zwick E, et al. **J Biol Chem** 1997 Oct 3;272(40):24767–70
Phenotypic heterogeneity of osteoblast–like MC3T3–E1 cells: changes of bradykinin–induced prostaglandin E2 production during osteoblast maturation. Leis HJ, et al. **J Bone Miner Res** 1997 Apr;12(4):541–51
Calcium–calmodulin plays a major role in bradykinin–induced arachidonic acid release by bovine aortic endothelial cells. Briand SI, et al. **J Cell Biochem** 1996 Dec 1;63(3):292–301
Filamin translocation is an early endothelial cell inflammatory response to bradykinin: regulation by calcium, protein kinases, and protein phosphatases. Wang Q, et al. **J Cell Biochem** 1996 Sep 1;62(3):383–96
Membrane depolarization in NRK fibroblasts by bradykinin is mediated by a calcium–dependent chloride conductance. De Roos AD, et al. **J Cell Physiol** 1997 Feb;170(2):166–73
Bradykinin stimulates alveolar macrophages to release neutrophil, monocyte, and eosinophil chemotactic activity. Sato E, et al. **J Immunol** 1996 Oct 1;157(7):3122–9
Influence of anti–inflammatory and antioxidant agents on endothelial permeability alterations induced by bradykinin. Deng X, et al. **J Invest Surg** 1996 Sep–Oct;9(5):337–49
Bradykinin protects against infarction but does not mediate ischemic preconditioning in the isolated rat heart. Bugge E, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2333–41
Regulation of phospholipases C and D in rat ventricular myocytes: stimulation by endothelin–1, bradykinin and phenylephrine. Clerk A, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1593–604
Inhibition of bradykinin–induced calcium increase by phosphatase inhibitors in neuroblastoma x glioma hybrid NG108–15 cells. Hu SY, et al. **J Neurochem** 1997 Feb; 68(2):846–54
Differential regulation of histamine– and bradykinin–stimulated phospholipase C in adrenal chromaffin cells: evidence for involvement of different protein kinase C isoforms. Sena CM, et al. **J Neurochem** 1996 Mar;66(3):1086–94
EP receptor subtypes implicated in the PGE2–induced sensitization of polymodal receptors in response to bradykinin and heat. Kumazawa T, et al. **J Neurophysiol** 1996 Jun;75(6):2361–8
Inhibition of bradykinin–induced synovial plasma extravasation produced by intrathecal nicotine is mediated by the hypothalamopituitary adrenal axis. Miao FJ, et al. **J Neurophysiol** 1996 Nov;76(5):2813–21
Three distinct G protein pathways mediate inhibition of neuronal calcium current by bradykinin. Wilk–Blaszczak MA, et al. **J Neurophysiol** 1996 Nov;76(5):3559–62
The monomeric G–proteins Rac1 and/or Cdc42 are required for the inhibition of voltage–dependent calcium current by bradykinin. Wilk–Blaszczak MA, et al. **J Neurosci** 1997 Jun 1;17(11):4094–100
Differential effects of angiotensin converting enzyme inhibitors on the vasodepressor and prostacyclin responses to bradykinin. Brown NJ, et al. **J Pharmacol Exp Ther**

1996 Nov;279(2):703–12
Evidence against a cytochrome P450–derived reactive oxygen species as the mediator of the nitric oxide–independent vasodilator effect of bradykinin in the perfused heart of the rat. Fulton D, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):702–9
Different B1 kinin receptor expression and pharmacology in endothelial cells of different origins and species. Wohlfart P, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1109–16
Mechanisms of bradykinin–induced insulin secretion in clonal beta cell line RINm5F. Yang C, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1247–52
Ca(2+)-dependent non–selective cation and potassium channels activated by bradykinin in pig coronary artery endothelial cells. Baron A, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):691–706
Pressor effect mediated by bradykinin in the paratrigeminal nucleus of the rat. Lindsey CJ, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):119–29
Vagal branches involved in inhibition of bradykinin–induced synovial plasma extravasation by intrathecal nicotine and noxious stimulation in the rat. Miao FJ, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):473–81
Electrotonic propagation of kinin–induced, endothelium–dependent hyperpolarizations in pig coronary smooth muscles. Pacicca C, et al. **J Vasc Res** 1996 Sep–Oct; 33(5):380–5
Bradykinin–induced airway contraction in two lines of guinea pigs with congenitally different airway sensitivity. Tsubone H, et al. **J Vet Med Sci** 1997 Jul;59(7):613–5
Bradykinin stimulates c-fos expression, AP–1–DNA binding activity and proliferation of rat glomerular mesangial cells. el–Dahr SS, et al. **Kidney Int** 1996 Dec;50(6):1850–5
Stimulation of Rb+ influx by bradykinin through Na+/K+/Cl– cotransport and Na+/K(+)-ATPase in NIH–3T3 fibroblasts. Hichami A, et al. **Life Sci** 1996; 59(22):1829–37
Regulation of bradykinin–induced Ins(1,4,5)P3 formation by protein kinase C in human fibroblasts. Huang HM, et al. **Life Sci** 1996;59(18):1533–43
Bradykinin, lemakalim and sodium nitroprusside relax the mouse trachea in vitro by different mechanisms. Li L, et al. **Life Sci** 1997;61(7):PL67–73
The effect of bradykinin on secretion of insulin, glucagon, and somatostatin from the perfused rat pancreas. Yang C, et al. **Metabolism** 1997 Oct;46(10):1113–5
Comparable effects of arteriolar and capillary stimuli on blood flow in rat skeletal muscle. Mitchell D, et al. **Microvasc Res** 1997 Jan;53(1):22–32
Role of bradykinin in the antihypertrophic effects of enalapril in the newborn pig heart. Beinlich CJ, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:77–83
Antisense oligonucleotides targeting human protein kinase C–alpha inhibit phorbol ester–induced reduction of bradykinin–evoked calcium mobilization in A549 cells. Levesque L, et al. **Mol Pharmacol** 1997 Feb;51(2):209–16
The role of nitric oxide synthase pathway on bradykinin–induced bronchoconstriction in guinea–pigs and in man. Ricciardolo FL, et al. **Monaldi Arch Chest Dis** 1996 Dec;51(6):543–7 (52 ref.)
Potentiation of the pro–inflammatory effects of bradykinin by inhibition of angiotensin–converting enzyme and aminopeptidase P in rat paws. Damas J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):670–6
Pharmacology and mode of action of bradykinin on mouse–isolated trachea. van Heuven–Nolsen D, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):134–8
Differences in acetylcholine– and bradykinin–induced vasorelaxation of the mesenteric vascular bed in spontaneously hypertensive rats of different ages. Wirth KJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):38–43
5–Hydroxytryptamine–evoked [Ca2+]i oscillations in rat C6 glioma cells. Cholewinski AJ, et al. **Neurochem Int** 1996 May–Jun;28(5–6):583–9
Increased delivery of a new cisplatin analogue (254–S) in a rat brain tumor by an intracarotid infusion of bradykinin. Koga H, et al. **Neurol Res** 1996 Jun;18(3):244–7
Bradykinin inhibition of N– and L–type calcium channel currents in NG108–15 cells. Connor M, et al. **Neuropharmacology** 1997 Jan;36(1):115–24
Reaction of sensorimotor cortex neurons to stimulation of the lateral hypothalamus in conditions of microiontophoretic application of tetragastrin and bradykinin: the role of food reinforcement. Kravtsov AN, et al. **Neurosci Behav Physiol** 1996 Nov–Dec;26(6):493–9
Sympathetic–dependence in bradykinin–induced synovial plasma extravasation is dose–related. Miao FJ, et al. **Neurosci Lett** 1996 Mar 1;205(3):165–8
Tachyphylaxis develops to bradykinin–induced plasma extravasation in the rat. Miao FJ, et al. **Neurosci Lett** 1996 Apr 19;208(2):143–5
Opposite effects of increased intracellular cyclic AMP on the heat and bradykinin responses of canine visceral polymodal receptors in vitro. Mizumura K, et al. **Neurosci Res** 1996 Aug;25(4):335–41
Renshaw cell responses to intra–arterial injection of muscle metabolites into cat calf muscles. Windhorst U, et al. **Neurosci Res** 1997 Mar;27(3):235–47
Prostaglandin E2 increases the proportion of neonatal rat dorsal root ganglion neurons that respond to bradykinin. Stucky CL, et al. **Neuroscience** 1996 Oct;74(4):1111–23
Bradykinin dilates rat middle cerebral artery and its large branches via endothelial B2 receptors and release of nitric oxide. Görlach C, et al. **Peptides** 1996;17(8):1373–8
Effects of captopril on responses to bradykinin in the hindquarters vascular bed of the rat. Nossaman BD, et al. **Peptides** 1997;18(4):491–4
Bradykinin decreases T–kininogen synthesis in a rat hepatoma cell line: evidence of bradykinin B2–type receptors. Raymond P, et al. **Peptides** 1996;17(7):1171–6
Bradykinin increases catecholamine release via B2 receptors. Dendorfer A, et al. **Pflugers Arch** 1996;432(3 Suppl):R99–106
Role of angiotensin in the dipsogenic effect of bradykinin in rats. Rowland NE, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):699–705
Upregulation of nitric oxide synthase in cultured human keratinocytes after ultraviolet B and bradykinin. Kang–Rotondo CH, et al. **Photodermatol Photoimmunol Photomed** 1996 Apr; 12(2):57–65
A novel heat–activated current in nociceptive neurons and its sensitization by bradykinin [see comments] Cesare P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15435–9 . Comment in: Proc Natl Acad Sci U S A 1996 Dec 24;93(26):14995–7.
Differential effects of acetylcholine and bradykinin on prostanoid release from the rat mesenteric bed: role of endothelium and of nitric oxide. Peredo HA, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):253–8
Endothelium–derived relaxing factor as a mediator of bradykinin–induced perinatal pulmonary vasodilatation in fetal sheep. Glasgow RE, et al. **Reprod Fertil Dev** 1997; 9(2):213–6
Sensory receptor activation by mediators of defense reflexes in guinea–pig lungs. Bergren DR. **Respir Physiol** 1997 Jun; 108(3):195–204
Endotoxin–induced inhibition of mesenteric vasodilator responses to acetylcholine, bradykinin, and post–occlusion hyperemia in anesthetized rats. Fatehi–Hassanabad Z, et al. **Shock** 1996 Nov;6(5):371–6
Selective impairment of response to acetylcholine after ischemia/reperfusion in mice. Rosenblum WI. **Stroke** 1997 Feb;28(2):448–51; discussion 451–2
Selective stimulation of tissue–type plasminogen activator (t–PA) in vivo by infusion of bradykinin. Brown NJ, et al. **Thromb Haemost** 1997 Mar;77(3):522–5

PHYSIOLOGY

Tyrosine phosphorylation and bradykinin–induced signaling in endothelial cells. Fleming I, et al. **Am J Cardiol** 1997 Aug 4;80(3A):102A–109A
Beneficial effects of bradykinin on myocardial energy metabolism and infarct size. Linz W, et al. **Am J Cardiol** 1997 Aug 4;80(3A):118A–123A (111 ref.)
Are the inotropic and antiarrhythmic effects of bradykinin due to increases in coronary flow? Minshall RD, et al. **Am J Cardiol** 1997 Aug 4;80(3A):148A–152A
Attenuation of epinephrine–induced dysrhythmias by bradykinin: role of nitric oxide and prostaglandins. Rajani V, et al. **Am J Cardiol** 1997 Aug 4;80(3A):153A–157A
Perfusion–independent effect of bradykinin and fosinoprilate on glucose transport in Langendorff rat hearts. Rett K, et al. **Am J Cardiol** 1997 Aug 4;80(3A):143A–147A
Role of PLA2, PLC, and PLD in bradykinin–induced release of arachidonic acid in MDCK cells. Kennedy CR, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1064–72
Role of extracellular signal–regulated kinase and PKC alpha in cytosolic PLA2 activation by bradykinin in MDCK–D1 cells [published erratum appears in Am J Physiol 1997 Aug;273(2 Pt 1):section C following table of contents] Xing M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1380–7
Involvement of endogenous kinins in the pathogenesis of peptidoglycan–induced arthritis in the Lewis rat. Blais C Jr, et al. **Arthritis Rheum** 1997 Jul;40(7):1327–33
Bradykinin induces actin reorganization and enhances cell motility in HaCaT keratinocytes. Coutant KD, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):257–61
Is there a role for bradykinin in the therapeutic and side effects of angiotensin–converting enzyme inhibitors? Marceau F. **Can J Cardiol** 1997 Feb;13(2):187–94 (71 ref.)
Bradykinin regulates the histamine–induced Ca2+ mobilization via protein kinase C activation in human gingival fibroblasts. Niisato N, et al. **Cell Calcium** 1997 May;21(5):345–52
Role of bradykinin in mediating vascular effects of angiotensin–converting enzyme inhibitors in humans. Hornig B, et al. **Circulation** 1997 Mar 4;95(5):1115–8
Bradykinin may not be involved in improvement of insulin resistance by angiotensin converting enzyme inhibitor. Chen S, et al. **Clin Exp Hypertens** 1996 Jul;18(5):625–36
ACE inhibition by enalaprilate stimulates duodenal mucosal alkaline secretion via a bradykinin pathway in the rat. Chen L, et al. **Dig Dis Sci** 1997 Sep;42(9):1908–13
Maintenance of vascular integrity: role of nitric oxide and other bradykinin mediators. Cosentino F, et al. **Eur Heart J** 1995 Nov;16 Suppl K:4–12 (122 ref.)
Coronary effects of exogenous and endogenous bradykinin in conscious dogs. Puybasset L, et al. **Fundam Clin Pharmacol** 1997;11(4):322–30
Bradykinin B2 receptor modulates renal prostaglandin E2 and nitric oxide. Siragy HM, et al. **Hypertension** 1997 Mar; 29(3):757–62
Bradykinin and nitric oxide in infectious disease and cancer. Maeda H, et al. **Immunopharmacology** 1996 Jun; 33(1–3):222–30 (34 ref.)
Endothelium–derived hyperpolarizing factor: a key mediator of the vasodilator action of bradykinin. Mombouli JV, et al. **Immunopharmacology** 1996 Jun;33(1–3):46–50 (25 ref.)
Further evidence of bradykinin involvement in septic shock: reduction of kinin production in vivo and improved survival in rats by use of polymer tailored SBTI with longer t1/2. Shin YH, et al. **Immunopharmacology** 1996 Jun; 33(1–3):369–73
Increased migration of neutrophils to granulocyte–colony stimulating factor in rat carrageenin–induced pleurisy: roles of complement, bradykinin, and inducible cyclooxygenase–2. Ogino M, et al. **Inflamm Res** 1996 Jul; 45(7):335–46
Bradykinin–induced vasodilation of human coronary arteries in vivo: role of nitric oxide and angiotensin–converting enzyme. Kuga T, et al. **J Am Coll Cardiol** 1997 Jul; 30(1):108–12
Attenuation of reperfusion arrhythmias by selective inhibition of angiotensin–converting enzyme/kininase II in the ischemic zone: mediated by endogenous bradykinin? Shimada Y, et al. **J Cardiovasc Pharmacol** 1996 Mar; 27(3):428–38
Bradykinin stimulates NF–kappaB activation and interleukin 1beta gene expression in cultured human fibroblasts. Pan ZK, et al. **J Clin Invest** 1996 Nov 1;98(9):2042–9
Mechanisms of smokeless tobacco–induced oral mucosa inflammation: role of bradykinin. Gao XP, et al. **J Immunol** 1996 Nov 15;157(10):4624–33
Wound healing following myocardial infarction in the rat: role for bradykinin and prostaglandins. Frimm C de C, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1279–85
Negative feedback neuroendocrine control of inflammatory response in the rat is dependent on the sympathetic postganglionic neuron. Green PG, et al. **J Neurosci** 1997 May 1;17(9):3234–8
Studies on the magnitude and the mechanism of cough potentiation by angiotensin–converting enzyme inhibitors in guinea–pigs: involvement of bradykinin in the potentiation. Takahama K, et al. **J Pharm Pharmacol** 1996 Oct;48(10):1027–33
Endopeptidase inhibitors decrease myocardial ischemia/reperfusion injury in an in vivo rabbit model. Schriefer JA, et al. **J Pharmacol Exp Ther** 1996 Sep; 278(3):1034–9
Mechanism of irritant–induced cough: studies with a kinin antagonist and a kallikrein inhibitor. Featherstone RL, et al. **Lung** 1996;174(4):269–75
Bradykinin receptors and receptor ligands (with special emphasis on vascular receptors). Regoli D, et al. **Regul Pept** 1996 Aug 27;65(1):83–9 (51 ref.)
Role of oxidative stress in the pathogenesis of acute pancreatitis. Sweiry JH, et al. **Scand J Gastroenterol Suppl** 1996;219:10–5 (47 ref.)
[Cardioactive hormones: bradykinin] Dendorfer A, et al. **Z Kardiol** 1996;85 Suppl 6:211–8 (39 ref.) (Eng. Abstr.) **(Ger)**

SECRETION

Bradykinin release from high molecular weight kininogen in surgical ICU patients. Karlsrud TS, et al. **Immunopharmacology** 1996 Jun;33(1–3):365–8
Modulation of kinin outflow from isolated perfused rat hearts by endothelin–1. Zeitlin IJ, et al. **Immunopharmacology** 1996 Jun;33(1–3):294–6

THERAPEUTIC USE

Preischemic bradykinin and ischaemic preconditioning in functional recovery of the globally ischaemic rat heart. Starkopf J, et al. **Cardiovasc Res** 1997 Jan;33(1):63–70

TOXICITY

Microvascular leakage in mouse pial venules induced by bradykinin. Yong T, et al. **Brain Inj** 1996 May;10(5):385–93
Bradykinin–induced knee joint incapacitation involves bradykinin B2 receptor mediated hyperalgesia and bradykinin B1 receptor–mediated nociception. Tonussi CR, et al. **Eur J Pharmacol** 1997 May 12;326(1):61–5

URINE

Bradykinin excretion is increased in severely hyperglycemic streptozotocin–diabetic rats. Tschöpe C, et al. **Immunopharmacology** 1996 Jun;33(1–3):344–8
Degradation of bradykinin in human urine by carboxypeptidase Y–like exopeptidase and neutral endopeptidase and their inhibition by ebelactone B and phosphoramidon. Saito M, et al. **Int J Tissue React** 1995; 17(5–6):181–90

BRADYKININ RECEPTORS see **RECEPTORS, BRADYKININ**

BRAIN

consider also terms at CEREBR– and ENCEPHAL–

see related
CEREBRAL DECORTICATION
PSYCHOSURGERY

Heterotopic brain in the pterygopalatine fossa. Kallman JE, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):176–9

Imaging brain structure and function: emerging technologies in the neurosciences. Proceedings of a conference. Bethesda, Maryland, March 28–29, 1996. **Ann N Y Acad Sci** 1997 May 30;820:1–315

Simple choristoma of the anterior segment containing brain tissue. Marshman WE, et al. **Arch Ophthalmol** 1997 Sep; 115(9):1198–200

Pediatric Rasmussen encephalitis: social communication, language, PET and pathology before and after hemispherectomy. Caplan R, et al. **Brain Cogn** 1996 Oct; 32(1):45–66

Decade of the brain lecture.. Congress of Neurological Surgeons. Hail ZW. **Clin Neurosurg** 1996;43:210–5

In situ freezing of the rabbit and rat brain. Roos MW, et al. **Cryobiology** 1997 Sep;35(2):187–91

Identification and chromosomal localization of human genes containing CAG/CTG repeats expressed in testis and brain. Bulle F, et al. **Genome Res** 1997 Jul;7(7):705–15

The effect of caloric restriction on lipofuscin accumulation in mouse brain with age. Moore WA, et al. **Gerontology** 1995;41 Suppl 2:173–85

Age–related changes in the lipofuscin accumulation of brain and heart. Nakano M, et al. **Gerontology** 1995;41 Suppl 2:69–79

Brain lipofuscinolysis and ceroidolysis––to be or not to be. Riga D, et al. **Gerontology** 1995;41 Suppl 2:271–81 (42 ref.)

Adenoviral–mediated thymidine kinase gene transfer into the primate brain followed by systemic ganciclovir: pathologic, radiologic, and molecular studies. Goodman JC, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1241–50

Heterotopic brain in the parapharyngeal space. Forte V, et al. **Int J Pediatr Otorhinolaryngol** 1996 Nov;37(3):253–60

Choice of metal ion and formulation concentration for first–pass brain perfusion studies with magnetic resonance imaging at 1.5 tesla. Runge VM, et al. **Invest Radiol** 1996 Jul;31(7):395–400

Drug delivery to the brain. Pardridge WM. **J Cereb Blood Flow Metab** 1997 Jul;17(7):713–31 (136 ref.)

Brain tissue banks in psychiatric and neurological research [letter; comment] Wilcock GK, et al. **J Clin Pathol** 1997 Apr;50(4):355. Comment on: J Clin Pathol 1996 Nov;49(11):870–3.

Anchoring of deep brain stimulation electrodes using a microplate. Technical note. Favre J, et al. **J Neurosurg** 1996 Dec;85(6):1181–3

Patients with retained transcranial knife blades: a high–risk group. Taylor AG, et al. **J Neurosurg** 1997 Oct;87(4):512–5

A revised dosimetric model of the adult head and brain. Bouchet LG, et al. **J Nucl Med** 1996 Jul;37(7):1226–36

Ontogeny and developmental regulation of heme oxygenase. Dennery PA, et al. **J Perinatol** 1996 May–Jun;16(3 Pt 2):S79–83 (32 ref.)

The extranasal glioma––a cause of neonatal respiratory distress. Amanullah MM, et al. **JPMA J Pak Med Assoc** 1996 Mar;46(3):61–2

Phylogenetic development of brain and brain sulci in primates. Imagawa M, et al. **Kobe J Med Sci** 1996 Feb; 42(1):61–72

Creutzfeldt–Jakob disease and eating squirrel brains [letter] Berger JR, et al. **Lancet** 1997 Aug 30;350(9078):642

Cell vehicles for gene transfer to the brain. Taylor R. **Neuromuscul Disord** 1997 Jul;7(5):343–51 (64 ref.)

Selective hypothermic perfusion of canine brain [letter; comment] White RJ, et al. **Neurosurgery** 1996 Dec; 39(6):1271. Comment on: Neurosurgery 1996 Jun;38(6):1211–5.

Embolism of fetal brain tissue to the lungs and the placenta. Baergen RN, et al. **Pediatr Pathol Lab Med** 1997 Jan–Feb; 17(1):159–67 (25 ref.)

Brain heterotopia: choristoma of the back. Downing MT, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):183–5

Selective cerebral hypothermia by means of transfemoral internal carotid artery catheterization. Schwartz AE, et al. **Radiology** 1996 Nov;201(2):571–2

Studying the central actions of angiotensin using the expression of immediate–early genes: expectations and limitations. Herbert J. **Regul Pept** 1996 Oct 8;66(1–2):13–8 (26 ref.)

The AD–TECH disposable brain biopsy needle. Dujovny M, et al. **Surg Neurol** 1996 Dec;46(6):597–8

Transplantation of testis–derived Sertoli cells into the mammalian brain. Sanberg PR, et al. **Transplant Proc** 1997 Jun;29(4):1926–8 (42 ref.)

[The normal brain: a new knowledge in different fields] Pakkenberg B, et al. **Ugeskr Laeger** 1997 Feb 3;159(6):723–7 **(Dan)**

[Brain resuscitation] Arai T. **Masui** 1996 Dec;45 Suppl:S168–72 (15 ref.) **(Jpn)**

[Computed tomography and magnetic resonance imaging of the brain in congenital rubella syndrome] Yoshimura M, et al. **No To Hattatsu** 1996 Sep;28(5):385–90 (Eng. Abstr.) **(Jpn)**

[The blood–brain barrier. I. Histology. Physiology. Embryology. Transport] Lewczuk P, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):839–50 (Eng. Abstr.) **(Pol)**

[Craniopharyngioma in childhood. Significance of the extent of surgical resection and adjuvant megavoltage irradiation for event: free survival] Roszkowski M, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):797–810 (Eng. Abstr.) **(Pol)**

[The possibility for the carrying out of active deeds by the victim with the presence of foreign bodies in the brain] Ignat'ev NV. **Sud Med Ekspert** 1996 Oct–Dec;39(4):31–3 **(Rus)**

[The characteristics of different types of mRNA expressed in the human brain] Dmitrenko VV, et al. **Tsitol Genet** 1996 Sep–Oct;30(5):41–7 (Eng. Abstr.) **(Rus)**

[Automatic anatomic–physiologic correspondence of deep structures of the central nervous system in stereotaxic functional neurosurgery] Teijeiro Amador J, et al. **Neurologia** 1996 Nov;11(9):320–31 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Complex disorder of neuronal migration in an infant with possible congenital cytomegalovirus infection. Mardešić D, et al. **Acta Med Croatica** 1996;50(3):151–5

Hydrolethalus: a midline malformation syndrome with optic nerve coloboma and hypoplasia. Kivelä T, et al. **Acta Neuropathol (Berl)** 1996;91(5):511–8

An unusual type of primary cerebral hemihypotrophy with signs of dysfunctional neuronal migration. Malandrini A, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):631–4

Cleft lip and palate associated with malformation of the central nervous system: a prospective neurosonographic study. Shen EY, et al. **Acta Paediatr Sin** 1996 Jan–Feb; 37(1):39–44

MR of the cerebral operculum: abnormal opercular formation in infants and children. Chen CY, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1303–11

Aventriculy: a new entity? Garfinkle WB. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1649–50

Coexistence of schizencephaly and intracranial arteriovenous malformation in an infant. Hung PC, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1921–2

Hemangiomas of the head, neck, and chest with associated vascular and brain anomalies: a complex neurocutaneous syndrome. Pascual–Castroviejo I, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):461–71

Further case of Galloway–Mowat syndrome of abnormal gyral patterns and glomerulopathy [letter] Kingo AR, et al. **Am J Med Genet** 1997 Apr 14;69(4):431

Prenatal diagnosis of Fukuyama type congenital muscular dystrophy by polymorphism analysis. Kondo E, et al. **Am J Med Genet** 1996 Dec 11;66(2):169–74

VACTERL–hydrocephaly, DK–phocomelia, and cerebro–cardio–radio–reno–rectal community. Lurie IW, et al. **Am J Med Genet** 1997 May 16;70(2):144–9 (50 ref.)

Hemihypertrophy, hemimegalencephaly, and polydactyly. Reardon W, et al. **Am J Med Genet** 1996 Dec 11; 66(2):144–9

Brain anomalies, retardation of mentality and growth, ectodermal dysplasia, skeletal malformations, Hirschsprung disease, ear deformity and deafness, eye hypoplasia, cleft palate, cryptorchidism, and kidney dysplasia/hypoplasia (BRESEK/BRESHECK): new X–linked syndrome? Reish O, et al. **Am J Med Genet** 1997 Feb 11;68(4):386–90

Central nervous system anomalies in Seckel syndrome: report of a new family and review of the literature. Shanske A, et al. **Am J Med Genet** 1997 May 16;70(2):155–8 (10 ref.)

Intracranial fetus–in–fetu. Goldstein I, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1389–90

Neuronal migration disorder presenting with epilepsy: a report of five illustrative cases. Chee MW, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):887–90

Abnormalities of brain structure and function in schizophrenia: implications for aetiology and pathophysiology. Cannon TD. **Ann Med** 1996 Dec; 28(6):533–9 (49 ref.)

The neurodevelopmental theory of schizophrenia: evidence concerning structure and neuropsychology. Chua SE, et al. **Ann Med** 1996 Dec;28(6):547–55 (128 ref.)

Adolescents with anorexia nervosa: the impact of the disorder on bones and brains. Katzman DK, et al. **Ann N Y Acad Sci** 1997 May 28;817:127–37 (76 ref.)

Bilateral parasagittal parietooccipital polymicrogyria and epilepsy [see comments] Guerrini R, et al. **Ann Neurol** 1997 Jan;41(1):65–73. Comment in: Ann Neurol 1997 Aug;42(2):272–3.

Bilateral parasagittal parietooccipital polymicrogyria and epilepsy [letter; comment] Sotrel A. **Ann Neurol** 1997 Aug; 42(2):272–3. Comment on: Ann Neurol 1997 Jan;41(1):65–73.

Magnetic resonance imaging in classification of congenital muscular dystrophies with brain abnormalities. van der Knaap MS, et al. **Ann Neurol** 1997 Jul;42(1):50–9

White matter attenuation and megalencephaly [letter] Robinson RO, et al. **Arch Dis Child** 1997 Jul;77(1):93

An immunohistochemical study of an anomaly of the fetal rat: adenohypophysis developing without contact with the brain. Watanabe YG. **Arch Histol Cytol** 1996 Oct; 59(4):381–7

A new family with periventricular nodular heterotopia and peculiar dysmorphic features. A probable X–linked dominant trait. Musumeci SA, et al. **Arch Neurol** 1997 Jan; 54(1):61–4

Gray matter deficits in young onset schizophrenia are independent of age of onset. Lim KO, et al. **Biol Psychiatry** 1996 Jul 1;40(1):4–13

A novel pattern of oculocerebral malformation. Clark BJ, et al. **Br J Ophthalmol** 1997 Jun;81(6):470–5

Disproportion of cerebral surface areas and volumes in cerebral dysgenesis. MRI–based evidence for connectional abnormalities. Sisodiya SM, et al. **Brain** 1997 Feb;120 (Pt 2):271–81

Macrocephaly and chromosome disorders: a case report. Drigo P, et al. **Brain Dev** 1996 Jul–Aug;18(4):312–5

Complex brain malformation and drug resistant epilepsy. Parmeggiani A, et al. **Brain Dev** 1997 Jan;19(1):66–70

Neuropathological findings in the cerebro–oculo–facio–skeletal (Pena–Shokeir II) syndrome. Sakai T, et al. **Brain Dev** 1997 Jan;19(1):58–62

Birthdates of neurons in induced microgyria. Rosen GD, et al. **Brain Res** 1996 Jul 15;727(1–2):71–8

Central nervous system and vertebral malformation resembling the Arnold–Chiari syndrome in a Simmental calf. LeClerc S, et al. **Can Vet J** 1997 May;38(5):300–1

Hemimegalencephaly. Histological, immunohistochemical, ultrastructural and cytofluorimetric study of six patients. Bosman C, et al. **Childs Nerv Syst** 1996 Dec;12(12):765–75

Coexistence of hemimegalencephaly and chronic encephalitis. Detection of cytomegalovirus by the polymerase chain reaction. Jay V, et al. **Childs Nerv Syst** 1997 Jan;13(1):35–41

Neurovascular developmental interaction: a specific form of vascular maldevelopment in the malformed brain. I. An experimental study and proposal of a new teratological concept. Oi S, et al. **Childs Nerv Syst** 1996 May;12(5):242–7

The cardio–facio–cutaneous syndrome: a long–term follow–up of two patients, with special reference to the neurological features. Sabatino G, et al. **Childs Nerv Syst** 1997 Apr;13(4):238–41

MRI in Smith–Lemli–Opitz syndrome type I. Trasimeni G, et al. **Childs Nerv Syst** 1997 Jan;13(1):47–9

Cutis marmorata telangiectatica congenita with cerebral and ophthalmic anomalies: report of one case. Mu SC, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan–Feb;38(1):65–8

New syndrome: brain malformation, growth retardation, hypokinesia and polyhydramnios in two brothers. Holmes LB, et al. **Clin Dysmorphol** 1997 Jan;6(1):13–9

Two male siblings with cavum septum pellucidum, cavum vergae, macrocephaly, seizures and mental retardation. A new hereditary syndrome? Sánchez O, et al. **Clin Dysmorphol** 1997 Apr;6(2):129–32

Neuroradiology and clinical aspects of Usher syndrome. Tamayo ML, et al. **Clin Genet** 1996 Sep;50(3):126–32

Interictal and ictal SPECT in a neonate with hemimegalencephaly. Alfonso I, et al. **Clin Nucl Med** 1997 May;22(5):323–4

Brain SPECT evaluation of cerebral perfusion in hemimegalencephaly. Bar–Sever Z, et al. **Clin Nucl Med** 1997 Apr;22(4):250–2

MR demonstration of cerebral hemimegalencephaly associated with cerebellar involvement (total hemimegalencephaly). Sener RN. **Comput Med Imaging Graph** 1997 May–Jun;21(3):201–4

Schizophrenia: a disorder of neurodevelopment? Harrison PJ. **Curr Opin Neurobiol** 1997 Apr;7(2):285–9 (57 ref.)

Testing the limits: a model of human dysfunction [letter] Rovee–Collier C. **Dev Psychobiol** 1996 Jul;29(5):397–8

Brain asymmetry as a potential biomarker for developmental TCDD intoxication: a dose–response study. Henshel DS, et al. **Environ Health Perspect** 1997 Jul;105(7):718–25

Schizencephaly: neuroradiologic and epileptologic findings. Granata T, et al. **Epilepsia** 1996 Dec;37(12):1185–93

Neuronal migration disorders and epilepsy: a morphological analysis of three surgically treated patients. Battaglia G, et al. **Epilepsy Res** 1996 Dec;26(1):49–58

Characterization of neuronal migration disorders in neocortical structures: I. Expression of epileptiform activity in an animal model. Luhmann HJ, et al. **Epilepsy Res** 1996 Dec;26(1):67–74

Schizencephaly: surgical features and new molecular genetic results. Capra V, et al. **Eur J Pediatr Surg** 1996 Dec;6 Suppl 1:27–9

Coexistence of schizencephaly and middle cranial fossa arachnoid cyst: a report of two patients. Sener RN. **Eur Radiol** 1997;7(3):409–11

Migration disorders leading to a wide spectrum of brain malformations in a case with multiorganic dysgeneses: A new syndrome? Dambska M, et al. **Folia Neuropathol** 1996; 34(1):11–5

Three siblings with Walker–Warburg Syndrome. Bornemann A, et al. **Gen Diagn Pathol** 1996 May;141(5–6):371–5

Oculocerebrocutaneous syndrome: a case report, a follow–up, and differential diagnostic considerations. Moog U, et al. **Genet Couns** 1996;7(4):257–65

Central nervous system abnormalities in oculodentodigital dysplasia [letter] Schrander–Stumpel CT, et al. **Genet Couns** 1996;7(3):233–5 (9 ref.)

Genomic organization of the murine Miller–Dieker/lissencephaly region: conservation of linkage with the human region [letter] Hirotsune S, et al. **Genome Res** 1997 Jun;7(6):625–34

Making sense of schizophrenia. Flaum M. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):51–2, 55–6, 59–60 passim (7 ref.)

A revision of the lissencephaly and Miller–Dieker syndrome critical regions in chromosome 17p13.3. Chong SS, et al.

Hum Mol Genet 1997 Feb;6(2):147–55
Point mutations and an intragenic deletion in LIS1, the lissencephaly causative gene in isolated lissencephaly sequence and Miller–Dieker syndrome. Lo Nigro C, et al. **Hum Mol Genet** 1997 Feb;6(2):157–64
Hamartomas in the setting of chronic epilepsy: a clinicopathologic study of 13 cases. Volk EE, et al. **Hum Pathol** 1997 Feb;28(2):227–32
Septo–optic dysplasia. Singh H, et al. **Indian Pediatr** 1996 Aug;33(8):698–700
Leukoencephalopathy, megalencephaly, and mild clinical course. A recently individualized familial leukodystrophy. Report on five new cases. Goutières F, et al. **J Child Neurol** 1996 Nov;11(6):439–44
Global cerebral dysplasia due to dysplasia and hyperplasia of periventricular germinal cells. Shaw CM, et al. **J Child Neurol** 1996 Jul;11(4):313–20
Lissencephaly with pontocerebellar hypoplasia. al Shawan SA, et al. **J Child Neurol** 1996 May;11(3):241–4
Macrocephaly as the presenting feature of L–2–hydroxyglutaric aciduria in a 5–month–old boy. Diogo L, et al. **J Inherit Metab Dis** 1996;19(3):369–70
Recessive (true) microcephaly: a case report with neuropathological observations. McCreary BD, et al. **J Intellect Disabil Res** 1996 Feb;40 (Pt 1):66–70
Experimentally induced Chiari–like malformation with myeloschisis in chick embryos. Sim KB, et al. **J Korean Med Sci** 1996 Dec;11(6):509–16
Magnetic resonance imaging of the brain in Aicardi's syndrome. Report of 20 patients. Smith CD, et al. **J Neuroimaging** 1996 Oct;6(4):214–21
An in vivo and in vitro H–magnetic resonance spectroscopy study of mdx mouse brain: abnormal development or neural necrosis? Tracey I, et al. **J Neurol Sci** 1996 Sep 15; 141(1–2):13–8
Lack of clinically significant gross structural abnormalities in MRIs of older patients with schizophrenia and related psychoses. Symonds LL, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):251–8
Cerebral magnetic resonance imaging in a 2–year–old Caucasian girl, with hypomelanosis of Ito. Bermejo F, et al. **J Neuroradiol** 1996 Dec;23(4):248–50
Function and organization in dysgenic cortex. Case report. Preul MC, et al. **J Neurosurg** 1997 Jul;87(1):113–21
Special imaging casebook. Walker–Warburg syndrome. Herman TE, et al. **J Perinatol** 1997 May–Jun;17(3):250–1
Reactive nonstress test despite severe congenital brain damage. What does the test measure? Cardosi RJ, et al. **J Reprod Med** 1997 Apr;42(4):251–2
Congenital bilateral perisylvian syndrome: first report in a Japanese patient. Hattori H, et al. **Jpn J Hum Genet** 1996 Mar;41(1):189–92
Megencephaly: a new mouse mutation on chromosome 6 that causes hypertrophy of the brain. Donahue LR, et al. **Mamm Genome** 1996 Dec;7(12):871–6
The open brain (opb) mutation maps to mouse chromosome 1. Günther T, et al. **Mamm Genome** 1997 Aug;8(8):583–5
Scrambler, a new neurological mutation of the mouse with abnormalities of neuronal migration. Sweet HO, et al. **Mamm Genome** 1996 Nov;7(11):798–802
Autism, Asperger's syndrome and the Crick–Mitchison theory of the biological function of REM sleep. Brown DW. **Med Hypotheses** 1996 Nov;47(5):399–403
Epilepsy and brain abnormalities in mice lacking the Otx1 gene. Acampora D, et al. **Nat Genet** 1996 Oct;14(2):218–22
Familial schizencephaly associated with EMX2 mutation. Granata T, et al. **Neurology** 1997 May;48(5):1403–6
Schizencephaly: correlations of clinical and radiologic features. Packard AM, et al. **Neurology** 1997 May; 48(5):1427–34
Cobblestone lissencephaly with normal eyes and muscle. Dobyns WB, et al. **Neuropediatrics** 1996 Apr;27(2):70–5
Laminin–alpha 2 chain (merosin M) is preserved in the Walker–Warburg syndrome [letter; comment] Kükner S, et al. **Neuropediatrics** 1996 Oct;27(5):279–80. Comment on: Neuropediatrics 1995 Jun;26(3):148–55.
Hemimegalencephaly associated with somatic hemihypertrophy and a malformation of the feet: case report. Calzolari F, et al. **Neuroradiology** 1996 May; 38(4):367–70
Oculocerebral dysgenesis in the linear nevus sebaceous syndrome. Brodsky MC, et al. **Ophthalmology** 1997 Mar; 104(3):497–503
Pena–Shokeir phenotype associated with bilateral opercular polymicrogyria. Hevner RF, et al. **Pediatr Neurol** 1996 Nov;15(4):348–51
Expression of the LIS–1 gene product in brain anomalies with a migration disorder. Isumi H, et al. **Pediatr Neurol** 1997 Jan;16(1):42–4
Cystic leukoencephalopathy in a megalencephalic child: clinical and magnetic resonance imaging/magnetic resonance spectroscopy findings. Mejaski–Bosnjak V, et al. **Pediatr Neurol** 1997 May;16(4):347–50
Positive epileptiform discharges in children with neuronal migration disorders. Otsubo H, et al. **Pediatr Neurol** 1997 Jan;16(1):23–31
Megalencephalic leukodystrophy in an Asian Indian ethnic group. Singhal BS, et al. **Pediatr Neurol** 1996 May; 14(4):291–6
Immunohistochemical expression of cell adhesion molecule L1 in hemimegalencephaly. Tsuru A, et al. **Pediatr Neurol** 1997 Jan;16(1):45–9
Hypomelanosis of Ito and brain abnormalities: MRI findings and literature review. Steiner J, et al. **Pediatr Radiol** 1996 Nov;26(11):763–8 (36 ref.)
Neuroradiographic findings in the newborn period and long–term outcome in children with symptomatic congenital cytomegalovirus infection. Boppana SB, et al. **Pediatrics** 1997 Mar;99(3):409–14
Magnetic resonance imaging of brain anomalies in fetal alcohol syndrome. Swayze VW 2nd, et al. **Pediatrics** 1997 Feb;99(2):232–40
Qualitative analysis of fetal movement patterns in the Neu–Laxova syndrome. Kainer F, et al. **Prenat Diagn** 1996 Jul;16(7):667–9
Spatial relationships of neuroanatomic landmarks in schizophrenia. DeQuardo JR, et al. **Psychiatry Res** 1996 May 31;67(1):81–95
Unilateral megalencephaly in linear nevus sebaceous syndrome: a neuroradiological case report. Wakabayashi C, et al. **Radiat Med** 1997 Jan–Feb;15(1):65–9
US case of the day. Open–lip schizencephaly with an area of heterotopic gray matter and associated absence of the septa pellucida. Patel AC, et al. **Radiographics** 1997 Jan–Feb;17(1):236–9
Congenital anomalies in relatives of schizophrenic probands may indicate a retinoid pathology. Goodman AB. **Schizophr Res** 1996 May;19(2–3):163–70
Developmental insanity or dementia praecox: was the wrong concept adopted? O'Connell P, et al. **Schizophr Res** 1997 Feb 7;23(2):97–106 (108 ref.)
Scoliosis in cerebral gigantism, sotos syndrome. A case report. Haga N, et al. **Spine** 1996 Jul 15;21(14):1699–702
An unusual clinical presentation of bilateral schizencephaly. Avellanet M, et al. **Surg Radiol Anat** 1996;18(4):271–3
Exencephaly and cleft cerebellum in SELH/Bc mouse embryos are alternative developmental consequences of the same underlying genetic defect. Gunn TM, et al. **Teratology** 1996 Nov;54(5):230–6
Effect of multifactorial genetic liability to exencephaly on the teratogenic effect of valproic acid in mice. Hall JL, et al. **Teratology** 1997 May;55(5):306–13
Cerebro–costo–mandibular syndrome: early sonographic prenatal diagnosis. Ibba RM, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):142–4
Differential diagnosis and outcome of fetal intracranial hypoechoic lesions: report of 21 cases. Pilu G, et al. **Ultrasound Obstet Gynecol** 1997 Apr;9(4):229–36
[Hemi–megalloncephaly and Klippel–Trenaunay–Weber syndrome (letter)] Haddad J, et al. **Arch Pediatr** 1996 Aug; 3(8):828–9 **(Fre)**
[Prenatal MRI of the brain. Retrospective study apropos of 34 tests] Lair–Milan F, et al. **J Radiol** 1997 Jul; 78(7):499–505 (Eng. Abstr.) **(Fre)**
[Cytomegalovirus fetal infection. Porencephaly with polymicrogyria in a 15–year–old boy] Tominaga I, et al. **Rev Neurol (Paris)** 1996 Jun–Jul;152(6–7):479–82 (9 ref.) (Eng. Abstr.) **(Fre)**
[Magnetic resonance tomography diagnosis of neuronal migration disorders] Engelbrecht V. **Aktuelle Radiol** 1996 Jul;6(4):176–81 (Eng. Abstr.) **(Ger)**
[Bilateral operculum syndrome] Lerman–Sagie T, et al. **Harefuah** 1996 Sep;131(5–6):161–3, 215 (Eng. Abstr.) **(Heb)**
[Pathological spectrum of neuronal migration disorder] Arai N, et al. **No To Hattatsu** 1997 Mar;29(2):115–22 (20 ref.) (Eng. Abstr.) **(Jpn)**
[A case of pachygyria with cystic changes in the periventricular white matter and putamen] Okumura A, et al. **No To Hattatsu** 1996 Sep;28(5):424–9 (Eng. Abstr.) **(Jpn)**
[Neuroimagings in neuronal migration disorders] Okuno T, et al. **No To Hattatsu** 1997 Mar;29(2):123–8 (20 ref.) (Eng. Abstr.) **(Jpn)**
[The relationship between MR images and clinical findings in neuronal migration disorders] Onuma A, et al. **No To Hattatsu** 1997 Jul;29(4):285–90 (Eng. Abstr.) **(Jpn)**
[Chaos in pathogenesis of brain dysgenesis] Shimada M. **No To Hattatsu** 1996 Mar;28(2):93–101 (35 ref.) (Eng. Abstr.) **(Jpn)**
[SPECT, MRI and EEG in infants with lissencephaly] Tagawa T, et al. **No To Hattatsu** 1996 Sep;28(5):403–8 (Eng. Abstr.) **(Jpn)**
[Disorders of neuronal migration in cerebral palsy] Tsutsui Y, et al. **No To Hattatsu** 1997 Mar;29(2):108–14 (Eng. Abstr.) **(Jpn)**
[Surgical pathology of intractable epilepsy: with a reference to cerebral malformation] Arai N. **No To Shinkei** 1997 May; 49(5):401–8 (43 ref.) **(Jpn)**
[Molecular cytogenetic study of brain dysmorphogenesis] Fukushima Y. **No To Shinkei** 1996 Sep;48(9):787–94 (19 ref.) **(Jpn)**
[Abnormally distributed regional cerebral blood flow in brain malformations detected by single photon emission computed tomography] Ueda M, et al. **Rinsho Shinkeigaku** 1997 Feb;37(2):99–105 (24 ref.) (Eng. Abstr.) **(Jpn)**
[Two siblings with familial schizencephaly—report of a family and review in relation to clinical features and neuroradiological findings] Ueda M, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):774–9 (22 ref.) (Eng. Abstr.) **(Jpn)**
[Miller–Dieker syndrome] Yokoyama Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):217–9 (10 ref.) **(Jpn)**
[Racemose angioma of the nervous system: tumor or ontogenic defect?] Matsko DE, et al. **Vopr Onkol** 1996; 42(6):91–6 (25 ref.) **(Rus)**
[Hemimegalocephaly–agyria as the possible cause of the development of the Lennox–Gastaut syndrome] Badalian LO, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(2):90–2 (8 ref.) **(Rus)**
[Discrepancy of clinical neurologic findings and verified developmental malformation of the CNS] Raičević R, et al. **Vojnosanit Pregl** 1997 Mar–Apr;54(2):167–71 **(Scr)**
[Miller–Dieker syndrome and endocrine changes in twins] Noguera Moya A, et al. **An Esp Pediatr** 1996 Sep; 45(3):299–301 **(Spa)**
[A particular type of epilepsy in patients with congenital hemiparesis associated with polymicrogyria or unilateral pachygyria] Caraballo RH, et al. **Rev Neurol** 1997 Jul; 25(143):1058–63 (Eng. Abstr.) **(Spa)**
[Pyruvate dehydrogenase deficiency and cerebral malformations] Eiris J, et al. **Rev Neurol** 1996 Oct; 24(134):1272–5 (Eng. Abstr.) **(Spa)**
[Spectroscopic magnetic resonance in hemimegalencephalus] Martínez–Bermejo A, et al. **Rev Neurol** 1996 Dec; 24(136):1548–51 (Eng. Abstr.) **(Spa)**

ANALYSIS see BRAIN CHEMISTRY

ANATOMY & HISTOLOGY

Preservation into old age of synaptic number and size in the supragranular layer of the dentate gyrus in rhesus monkeys. Tigges J, et al. **Acta Anat (Basel)** 1996;157(1):63–72
Plastination in the neurosciences. Keynote lecture. Weiglein AH. **Acta Anat (Basel)** 1997;158(1):6–9
Effect of training and environment on brain morphology and behavior. Schrott LM. **Acta Paediatr Suppl** 1997 Jul; 422:45–7 (38 ref.)
What do we expect from non–invasive functional neuroimaging? Freund HJ. **Adv Exp Med Biol** 1997; 413:241–4 (25 ref.)
Is there a different type of MR–contrast in the early phase of functional activation? Hennig J, et al. **Adv Exp Med Biol** 1997;413:35–42 (12 ref.)
Signal sources in bold contrast fMRI. Turner R. **Adv Exp Med Biol** 1997;413:19–25 (31 ref.)
MR methods of measuring changes in brain and cerebrospinal fluid volume with age and menstrual cycle [letter; comment] Condon B, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1199–200. Comment on: AJNR Am J Neuroradiol 1995 Feb;16(2):241–51.
Childhood–onset schizophrenia: biological markers in relation to clinical characteristics. Alaghband–Rad J, et al. **Am J Psychiatry** 1997 Jan;154(1):64–8
Similar extent of brain dysmorphology in severely ill women and men with schizophrenia. Lauriello J, et al. **Am J Psychiatry** 1997 Jun;154(6):819–25
Cognition and white matter hyperintensities in older depressed patients. Lesser IM, et al. **Am J Psychiatry** 1996 Oct;153(10):1280–7
Premorbid brain size as a determinant of reserve capacity against intellectual decline in Alzheimer's disease. Mori E, et al. **Am J Psychiatry** 1997 Jan;154(1):18–24
The zebrafish brain: a neuroanatomical comparison with the goldfish. Rupp B, et al. **Anat Embryol (Berl)** 1996 Aug; 194(2):187–203
Efferent neurons of the lateral line system and their innervation of lateral line branches in a euteleost and an osteoglossomorph. Wagner T, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):271–8
Comparison of hemisphere size in wild and domestic geese. Kalisińska E. **Anat Histol Embryol** 1997 Mar;26(1):3–9
Classical and contemporary histochemical approaches for evaluating central nervous system microanatomy. Appel NM. **Ann N Y Acad Sci** 1997 May 30;820:14–28 (49 ref.)
Cerebral gray matter volume deficits after weight recovery from anorexia nervosa. Lambe EK, et al. **Arch Gen Psychiatry** 1997 Jun;54(6):537–42
Changing interpretations of the human cortical pattern. Maudgil DD. **Arch Neurol** 1997 Jun;54(6):769–75
NMDA and non–NMDA sensitive [L–3H]glutamate receptor binding in the brain of the Naples high– and low–excitability rats: an autoradiographic study. Sadile AG, et al. **Behav Brain Res** 1996 Aug;78(2):163–74
Brain sites mediating the discriminative stimulus effects of nicotine in rats. Shoaib M, et al. **Behav Brain Res** 1996 Aug;78(2):183–8
Effects of four normalizing methods on data analytic results in functional brain imaging. Gullion CM, et al. **Biol Psychiatry** 1996 Dec 1;40(11):1106–21
Identification of medieval human soft tissue remains in an advanced state of decomposition. Grupe G, et al. **Biotech Histochem** 1997 May;72(3):135–40
Genetic variability of human brain size and cortical gyral patterns. Bartley AJ, et al. **Brain** 1997 Feb;120 (Pt 2):257–69
Microhabitat use, trophic patterns, and the evolution of brain structure in African cichlids. Huber R, et al. **Brain Behav Evol** 1997;50(3):167–82
Development of bombesin–like and histamine–like innervation in the bullfrog (Rana catesbeiana) central nervous system. Leger JP, et al. **Brain Behav Evol** 1997; 49(2):63–77

Catecholamines and indoleamines in the central nervous system of a urodele amphibian: a microdissection study with emphasis on the distribution of epinephrine. Lowry CA, et al. **Brain Behav Evol** 1996;48(2):70–93

Afferent and efferent connections of the lateral and medial pallia of the silver lamprey. Northcutt RG, et al. **Brain Behav Evol** 1997;49(1):1–19

Genome size, secondary simplification, and the evolution of the brain in salamanders. Roth G, et al. **Brain Behav Evol** 1997 Jul;50(1):50–9 (60 ref.)

Neuroanatomical distribution of chicken–I gonadotropin–releasing hormone (cGnRH–I) in the brain of the male red–sided garter snake. Smith MT, et al. **Brain Behav Evol** 1997;49(3):137–48

The brains of lampreys and hagfishes: characteristics, characters, and comparisons. Wicht H. **Brain Behav Evol** 1996;48(5):248–61 (86 ref.)

Modularity of language reconsidered. Levy Y. **Brain Lang** 1996 Nov;55(2):240–63 (63 ref.)

Localization of nitric oxide synthase in the brain of the frog, Xenopus laevis. Brüning G, et al. **Brain Res** 1996 Nov 25; 741(1–2):331–43

Fluoro–Green and Fluoro–Red: two new fluorescent retrograde tracers with a number of unique properties. Dong K, et al. **Brain Res** 1996 Oct 14;736(1–2):61–7

Nitric oxide synthase in the brain of a urodele amphibian (Pleurodeles waltl) and its relation to catecholaminergic neuronal structures. González A, et al. **Brain Res** 1996 Jul 15;727(1–2):49–64

Autoradiographic localization of 5–HT1A receptors in the post–mortem human brain using [3H]WAY–100635 and [11C]way–100635. Hall H, et al. **Brain Res** 1997 Jan 16; 745(1–2):96–108

Evidence for divergent projections to the brain noradrenergic system and the spinal parasympathetic system from Barrington's nucleus. Valentino RJ, et al. **Brain Res** 1996 Sep 2;732(1–2):1–15

Prenatal stress alters the size of the rostral anterior commissure in rats. Jones HE, et al. **Brain Res Bull** 1997; 42(5):341–6

Brain size matters: a reply to Peters. Rushton JP, et al. **Can J Exp Psychol** 1995 Dec;49(4):562–9; discussion 570–6

Developmental patterns of proteoglycan–containing extracellular matrix in perineuronal nets and neuropil of the postnatal rat brain. Köppe G, et al. **Cell Tissue Res** 1997 Apr;288(1):33–41

Neuroarchitecture of the lower division of the central body in the brain of the locust (Schistocerca gregaria). Müller M, et al. **Cell Tissue Res** 1997 Apr;288(1):159–76

The human brain age 7–11 years: a volumetric analysis based on magnetic resonance images. Caviness VS Jr, et al. **Cereb Cortex** 1996 Sep–Oct;6(5):726–36

Three–dimensional fractal analysis of the white matter surface from magnetic resonance images of the human brain. Free SL, et al. **Cereb Cortex** 1996 Nov–Dec; 6(6):830–6

Regional heterogeneity of mtDNA heteroplasmy in parkinsonian brain. Schnopp NM, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):348–52

Neuroanatomy of language processing studied with functional MRI. Binder JR. **Clin Neurosci** 1997;4(2):87–94 (112 ref.)

Multiple brain atlas database and atlas–based neuroimaging system. Nowinski WL, et al. **Comput Aided Surg** 1997; 2(1):42–66

AFNI: software for analysis and visualization of functional magnetic resonance neuroimages. Cox RW. **Comput Biomed Res** 1996 Jun;29(3):162–73

3D reconstructions of neurofunctional structures for neuroimaging. Gerke M, et al. **Comput Med Imaging Graph** 1996 Jan–Feb;20(1):1–13

Postmortem cryosectioning as an anatomic reference for human brain mapping. Toga AW, et al. **Comput Med Imaging Graph** 1997 Mar–Apr;21(2):131–41

Interactive algorithms for the segmentation and quantitation of 3–D MRI brain scans. Freeborough PA, et al. **Comput Methods Programs Biomed** 1997 May;53(1):15–25

Cerebrocartography. Shipp S. **Curr Biol** 1996 Nov 1; 6(11):1360–2 (9 ref.)

New approaches to imaging based on effects of neurotoxins. Francis PT, et al. **Dement Geriatr Cogn Disord** 1997 Mar–Apr;8(2):117–22 (31 ref.)

Activation of a distributed somatosensory cortical network in the human brain. A dipole modelling study of magnetic fields evoked by median nerve stimulation. Part I: Location and activation timing of SEF sources. Mauguière F, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jul;104(4):281–9

Cortical and hippocampal volume deficits in temporal lobe epilepsy. Marsh L, et al. **Epilepsia** 1997 May;38(5):576–87

Localization of neuropeptide Y Y1 mRNA in the human brain: abundant expression in cerebral cortex and striatum. Caberlotto L, et al. **Eur J Neurosci** 1997 Jun;9(6):1212–25

Functional demarcation of a border between areas V6 and V6A in the superior parietal gyrus of the macaque monkey. Galletti C, et al. **Eur J Neurosci** 1996 Jan;8(1):30–52

Evaluation of the limits of visual detection of image misregistration in a brain fluorine–18 fluorodeoxyglucose PET–MRI study. Wong JCH, et al. **Eur J Nucl Med** 1997 Jun;24(6):642–50

Possible involvement of sexual selection in neocortical evolution of monkeys and apes. Sawaguchi T. **Folia Primatol (Basel)** 1997;68(2):95–9

Young neurons from the adult subependymal zone proliferate and migrate along an astrocyte, extracellular matrix–rich pathway. Thomas LB, et al. **Glia** 1996 May;17(1):1–14

Neurophysiology of converging synaptic inputs from the rat prefrontal cortex, amygdala, midline thalamus, and hippocampal formation onto single neurons of the caudate/putamen and nucleus accumbens. Finch DM. **Hippocampus** 1996;6(5):495–512

Using nonlinear dynamic metric tools for characterizing brain structures. Blanco S, et al. **IEEE Eng Med Biol Mag** 1997 Jul–Aug;16(4):83–92

Graphical shape templates for automatic anatomy detection with applications to MRI brain scans. Amit Y. **IEEE Trans Med Imaging** 1997 Feb;16(1):28–40

Statistical approach to segmentation of single–channel cerebral MR images. Rajapakse JC, et al. **IEEE Trans Med Imaging** 1997 Apr;16(2):176–86

Multispectral magnetic resonance images segmentation using fuzzy Hopfield neural network. Lin JS, et al. **Int J Biomed Comput** 1996 Aug;42(3):205–14

A radiological–anatomical comparison between formalin–preserved organs and "plastinated" ones. Brizzi E, et al. **Ital J Anat Embryol** 1994 Jul–Sep;99(3):145–55

Frequency–dependent changes of regional cerebral blood flow during finger movements: functional MRI compared to PET. Sadato N, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):670–9

Distribution and pharmacological characterization of somatostatin receptor binding sites in the sheep brain. Fodor M, et al. **J Chem Neuroanat** 1997 Mar;12(3):175–82

Neuroanatomy of the pain system and of the pathways that modulate pain. Willis WD, et al. **J Clin Neurophysiol** 1997 Jan;14(1):2–31 (393 ref.)

Topography of fibre organisation in the corticofugal pathways of rats. Coleman KA, et al. **J Comp Neurol** 1997 May 5;381(2):143–57

Catecholaminergic systems in the zebrafish. III. Organization and projection pattern of medullary dopaminergic and noradrenergic neurons. Ma PM. **J Comp Neurol** 1997 May 19;381(4):411–27

Early deletion of neuromeres in Wnt–1–/– mutant mice: evaluation by morphological and molecular markers. Mastick GS, et al. **J Comp Neurol** 1996 Oct 14; 374(2):246–58

Cortical, thalamic, and amygdaloid projections of rat temporal cortex. Shi CJ, et al. **J Comp Neurol** 1997 Jun 2;382(2):153–75

Synaptic organization of the uniglomerular projection neurons of the antennal lobe of the moth Manduca sexta: a laser scanning confocal and electron microscopic study. Sun XJ, et al. **J Comp Neurol** 1997 Mar 3;379(1):2–20

Automated brain segmentation from single slice, multislice, or whole–volume MR scans using prior knowledge. Saeed N, et al. **J Comput Assist Tomogr** 1997 Mar–Apr; 21(2):192–201

MR assessment of normal brain development in neonates and infants: comparative study of T1– and diffusion–weighted images. Takeda K, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):1–7

The way to a man's heart is through his stomach [editorial; comment] Gutierrez G. **J Crit Care** 1997 Jun;12(2):49–50 . Comment on: J Crit Care 1997 Jun;12(2):83–91. Comment on: J Crit Care 1997 Jun;12(2):92–8.

An Internet–connected, patient–specific, deformable brain atlas integrated into a surgical navigation system. Levy AL, et al. **J Digit Imaging** 1997 Aug;10(3 Suppl 1):231–7

Brain structure volumes in the mole rat, Spalax ehrenbergi (Spalacidae, Rodentia) in comparison to the rat and subterrestrial insectivores. Frahm HD, et al. **J Hirnforsch** 1997;38(2):209–22

Size of somatosensory cortex and of somatosensory thalamic nuclei of the naturally blind mole rat, Spalax ehrenbergi. Mann MD, et al. **J Hirnforsch** 1997;38(1):47–59

Social pressures have selected for an extended juvenile period in primates. Joffe TH. **J Hum Evol** 1997 Jun;32(6):593–605

A general approach to error estimation and optimized experiment design, applied to multislice imaging of T1 in human brain at 4.1 T. Mason GF, et al. **J Magn Reson** 1997 May;126(1):18–29

Automatic removal of extrameningeal tissues from MR images of human brain. Bedell BJ, et al. **J Magn Reson Imaging** 1996 Nov–Dec;6(6):939–43

Signal–to–noise analysis of cerebral blood volume maps from dynamic NMR imaging studies. Boxerman JL, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):528–37

Analysis of magnetization transfer effects on T1–weighted spin–echo scans using a simple tissue phantom simulating gadolinium–enhanced brain lesions. Finelli DA, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):731–8

Diffusion imaging with a multi–echo MISSTEC sequence. Franconi F, et al. **J Magn Reson Imaging** 1997 Mar–Apr; 7(2):399–404

Fourier registration of three–dimensional brain MR images: exploiting the axis of rotation. Kassam A, et al. **J Magn Reson Imaging** 1996 Nov–Dec;6(6):894–902

Contrast–to–noise ratio in functional MRI of relative cerebral blood volume with sprodiamide injection. Lev MH, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):523–7

Intracranial contour extraction with active contour models. Matsumoto S, et al. **J Magn Reson Imaging** 1997 Mar–Apr; 7(2):353–60

Multislice T1–weighted hybrid RARE in CNS imaging: assessment of magnetization transfer effects and artifacts. Melhem ER, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):903–8

High resolution T2–weighted imaging of the human brain using surface coils and an analytical reception profile correction. Moyher SE, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):512–7

Line scan imaging of brain metabolites with CPMG sequences at 1.5 tesla. Mulkern RV, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):399–405

Theory and application of static field inhomogeneity effects in gradient–echo imaging. Reichenbach JR, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):266–79 (23 ref.)

Magnetic resonance imaging of the brain: blood partition coefficient for water: application to spin–tagging measurement of perfusion. Roberts DA, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):363–6

Theoretical and experimental evaluation of phase–dispersion effects caused by brain motion in diffusion and perfusion MR imaging. Wirestam R, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):348–55

Inadequacy of motion correction algorithms in functional MRI: role of susceptibility–induced artifacts. Wu DH, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):365–70

Age– and behavior–related variation in volumes of song control nuclei in male European starlings. Bernard DJ, et al. **J Neurobiol** 1996 Jul;30(3):329–39

Fast inversion recovery for myelin suppression (FIRMS). A new magnetic resonance pulse sequence. Wolansky LJ, et al. **J Neuroimaging** 1997 Jul;7(3):176–9

Magnetisation transfer ratio of normal brain white matter: a normative database spanning four decades of life. Silver NC, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar; 62(3):223–8

A three–dimensional virtual model of the head generated from digitalized CT or MR images for anatomical–radiological and neurosurgical evaluations. Juanes JA, et al. **J Neuroradiol** 1996 Dec;23(4):211–6

Human brain language areas identified by functional magnetic resonance imaging. Binder JR, et al. **J Neurosci** 1997 Jan 1;17(1):353–62

Functional anatomic studies of memory retrieval for auditory words and visual pictures. Buckner RL, et al. **J Neurosci** 1996 Oct 1;16(19):6219–35

Three–dimensional statistical analysis of sulcal variability in the human brain. Thompson PM, et al. **J Neurosci** 1996 Jul 1;16(13):4261–74

Reproducible sampling regimen for specific cortical regions: application to speech–associated areas. Harasty J, et al. **J Neurosci Methods** 1996 Jul;67(1):43–51

Anatomical and immunohistochemical identification of catecholaminergic neurones in brain slice preparations used in electrophysiology. Johnson SM, et al. **J Neurosci Methods** 1996 Jan;64(1):83–93

Functional magnetic resonance imaging of the human brain. Kim SG, et al. **J Neurosci Methods** 1997 Jun 27; 74(2):229–43 (132 ref.)

In vivo visualization of living flatworm neurons using Lucifer yellow intracellular injections. Koopowitz H, et al. **J Neurosci Methods** 1996 Oct 21;69(1):83–9

An interface holding chamber for anatomical and physiological studies of living brain slices. Krimer LS, et al. **J Neurosci Methods** 1997 Jul 18;75(1):55–8

Use of peroxidase substrate Vector VIP for multiple staining in light microscopy. Lanciego JL, et al. **J Neurosci Methods** 1997 Jun 6;74(1):1–7

Magnetic resonance imaging of the brain of premature infants [letter] Battin M, et al. **Lancet** 1997 Jun 14;349(9067):1741

Application of image–based brain analysis to research and clinical problems. Duncan R. **Lancet** 1996 Oct 12; 348(9033):974–5

Magnetic–resonance imaging of the brain of premature infants [letter] Evans DJ, et al. **Lancet** 1997 Aug 16; 350(9076):522

Quantification of statistical type I and II errors in correlation analysis of simulated functional magnetic resonance imaging data. Baumgartner R, et al. **MAGMA** 1996 Sep–Dec;4(3–4):251–6

Using prior knowledge of human anatomy to constrain MR image acquisition and reconstruction: half k–space and full k–space techniques. Cao Y, et al. **Magn Reson Imaging** 1997;15(6):669–77

A technique for single–channel MR brain tissue segmentation: application to a pediatric sample. Rajapakse JC, et al. **Magn Reson Imaging** 1996;14(9):1053–65

Normal brain volume measurements using multispectral MRI segmentation. Vaidyanathan M, et al. **Magn Reson Imaging** 1997;15(1):87–97

MRI in successful aging, a 5–year follow–up study from the eighth to ninth decade of life. Wahlund LO, et al. **Magn Reson Imaging** 1996;14(6):601–8

Cerebral volumes and spectroscopic proton metabolites on MR: is sex important? Wilkinson ID, et al. **Magn Reson Imaging** 1997;15(2):243–8

Quantification of low–velocity motion using a navigator–echo supported MR velocity–mapping technique: application to intracranial dynamics in volunteers and patients with brain tumours. Wirestam R, et al. **Magn Reson Imaging** 1997;15(1):1–11

A CT using longitudinally detected ESR (LODESR–CT) of intraperitoneally injected nitroxide radical in a rat's head. Yokoyama H, et al. **Magn Reson Imaging** 1997;15(6):701–8

Unsupervised, automated segmentation of the normal brain using a multispectral relaxometric magnetic resonance approach. Alfano B, et al. **Magn Reson Med** 1997 Jan; 37(1):84–93

Dynamic shim updating: a new approach towards optimized whole brain shimming. Blamire AM, et al. **Magn Reson Med** 1996 Jul;36(1):159–65

Curved slice imaging [published erratum appears in Magn Reson Med 1997 Apr;37(4):500] Börnert P, et al. **Magn Reson Med** 1996 Dec;36(6):932–9

Estimation of in vivo proton intrinsic and cross–relaxation rate in human brain. Chai JW, et al. **Magn Reson Med** 1996 Jul;36(1):147–52

Reproducibility of high spatial resolution proton magnetic resonance spectroscopic imaging in the human brain. Charles HC, et al. **Magn Reson Med** 1996 Apr;35(4):606–10

Steady state effects in fast gradient echo magnetic resonance imaging. Duyn JH. **Magn Reson Med** 1997 Apr; 37(4):559–68

Cerebrospinal fluid–suppressed high–resolution diffusion imaging of human brain. Falconer JC, et al. **Magn Reson Med** 1997 Jan;37(1):119–23

3D localized in vivo 1H spectroscopy of human brain by using a hybrid of 1D–Hadamard with 2D–chemical shift imaging. Gonen O, et al. **Magn Reson Med** 1997 May; 37(5):644–50

A comparison of phase encoding ordering schemes in T2–weighted GRASE imaging. Johnson G, et al. **Magn Reson Med** 1996 Sep;36(3):427–35

An alternative to GRASE: toward spin–echo–like contrast with independent reconstruction of gradient–echo images. Keller PJ, et al. **Magn Reson Med** 1996 Nov;36(5):804–8

Limitations of temporal resolution in functional MRI. Kim SG, et al. **Magn Reson Med** 1997 Apr;37(4):631–6

Fast proton spectroscopic imaging employing k–space weighting achieved by variable repetition times. Kühn B, et al. **Magn Reson Med** 1996 Apr;35(4):457–64

Real–time adaptive motion correction in functional MRI. Lee CC, et al. **Magn Reson Med** 1996 Sep;36(3):436–44

Post–acquisition correction of MR inhomogeneities. Lee SK, et al. **Magn Reson Med** 1996 Aug;36(2):275–86

Quantitative magnetic resonance imaging of perfusion using magnetic labeling of water proton spins within the detection slice. Schwarzbauer C, et al. **Magn Reson Med** 1996 Apr;35(4):540–6

Estimation of water extraction fractions in rat brain using magnetic resonance measurement of perfusion with arterial spin labeling. Silva AC, et al. **Magn Reson Med** 1997 Jan; 37(1):58–68

An extended two–point Dixon algorithm for calculating separate water, fat, and B0 images. Skinner TE, et al. **Magn Reson Med** 1997 Apr;37(4):628–30

Simultaneous localized 1H STEAM/31P ISIS spectroscopy in vivo. van Sluis R, et al. **Magn Reson Med** 1996 Apr; 35(4):465–70

Improved centric phase encoding orders for three–dimensional magnetization–prepared MR angiography. Wilman AH, et al. **Magn Reson Med** 1996 Sep;36(3):384–92

2D locally focused MRI: applications to dynamic and spectroscopic imaging [published erratum appears in Magn Reson Med 1997 Feb;37(2):251] Yao L, et al. **Magn Reson Med** 1996 Dec;36(6):834–46

Perfusion imaging of the human brain at 1.5 T using a single–shot EPI spin tagging approach. Ye FQ, et al. **Magn Reson Med** 1996 Aug;36(2):217–24

The symbolic atlas of the brain: handling non–visual information associated with neuroanatomy. Natarajan K, et al. **Med Inf (Lond)** 1996 Jan–Mar;21(1):1–21

1H MRI phase thermometry in vivo in canine brain, muscle, and tumor tissue. MacFall JR, et al. **Med Phys** 1996 Oct; 23(10):1775–82

MRI–guided endoscopy in the brain: a feasability study. Scholz M, et al. **Minim Invasive Neurosurg** 1996 Jun; 39(2):33–7

Palaeoanthropology. They might be giants [news; comment] Kappelman J. **Nature** 1997 May 8;387(6629):126–7. Comment on: Nature 1997 May 8;387(6629):173–6.

Body mass and encephalization in Pleistocene Homo [see comments] Ruff CB, et al. **Nature** 1997 May 8; 387(6629):173–6. Comment in: Nature 1997 May 8;387(6629):126–7.

Astrocytes, brain aging, and neurodegeneration. Schipper HM. **Neurobiol Aging** 1996 May–Jun;17(3):467–80 (109 ref.)

Motor imagery—anatomical representation and electrophysiological characteristics. Stephan KM, et al. **Neurochem Res** 1996 Sep;21(9):1105–16

The insistent call from functional MRI [editorial; comment] Prichard JW, et al. **Neurology** 1997 Apr;48(4):797–800. Comment on: Neurology 1997 Apr;48(4):1003–12.

Use of subvoxel registration and subtraction to improve demonstration of contrast enhancement in MRI of the brain. Curati WL, et al. **Neuroradiology** 1996 Nov; 38(8):717–23

Diffusion–weighted MRI of myelination in the rat brain following treatment with gonadal hormones. Prayer D, et al. **Neuroradiology** 1997 May;39(5):320–5

MRI of the brain in neurologically healthy middle–aged and elderly individuals. Salonen O, et al. **Neuroradiology** 1997 Aug;39(8):537–45

Regionally distinct stoichiometry for N–methyl–D–aspartate receptor domains in brain. Matsunaga T, et al. **Neuroreport** 1996 Feb 29;7(3):833–7

Features of the architectonics of motor speech fields of the brain of gifted people in relation to the study of the individual variability of the structure of the human brain. Bogolepova IN. **Neurosci Behav Physiol** 1996 Mar–Apr; 26(2):189–93

Localisation and properties of AMPA–insensitive kainate sites: receptor autoradiography and gene expression in rat brain. Lunn ML, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):121–4

High–speed voltage–sensitive dye imaging of an in vivo insect brain. Okada K, et al. **Neurosci Lett** 1996 May 17; 209(3):197–200

[3H]1,3–di(2–tolyl)guanidine and [3H](+)pentazocine binding sites in the rat brain: autoradiographic visualization of the putative sigma1 and sigma2 receptor subtypes. Bouchard P, et al. **Neuroscience** 1997 Jan;76(2):467–77

Immunohistochemical localization of Lyn (p56) protein in the adult rat brain. Chen S, et al. **Neuroscience** 1996 Mar; 71(1):89–100

The effects of donor stage on the survival and function of embryonic striatal grafts in the adult rat brain. I. Morphological characteristics. Fricker RA, et al. **Neuroscience** 1997 Aug;79(3):695–710

Immunohistochemical localization of brain–derived neurotrophic factor in adult rat brain. Kawamoto Y, et al. **Neuroscience** 1996 Oct;74(4):1209–26

Distribution of calretinin–containing neurons relative to other neurochemically identified cell types in the medial septum of the rat. Kiss J, et al. **Neuroscience** 1997 May; 78(2):399–410

Magnetic resonance imaging of human brain function. Principles, practicalities, and possibilities. Bandettini PA, et al. **Neurosurg Clin N Am** 1997 Jul;8(3):345–71 (197 ref.)

Heteronuclear multivoxel spectroscopy of in vivo human brain: two–dimensional proton interleaved with three–dimensional 1H–decoupled phosphorus chemical shift imaging. Arias–Mendoza F, et al. **NMR Biomed** 1996 May;9(3):105–13

NF–kappa B transcription factor subunits in rat brain: colocalization of p65 and alpha–MSH. Joseph SA, et al. **Peptides** 1996;17(4):655–64

Brains of ants and elephants [editorial] Gregory R. **Perception** 1997;26(3):249–52

Minimum cross–entropy reconstruction of PET images using prior anatomical information. Ardekani BA, et al. **Phys Med Biol** 1996 Nov;41(11):2497–517

Calculation of electrical potentials on the surface of a realistic head model by finite differences. Lemieux L, et al. **Phys Med Biol** 1996 Jul;41(7):1079–91

Informatics and computational neuroanatomy. Toga AW, et al. **Proc AMIA Annu Fall Symp** 1996;:299–303

Mossy–fibre sensory input to the cerebellum. Glickstein M. **Prog Brain Res** 1997;114:251–9 (57 ref.)

The systems–level organization of cholinergic innervation in the human cerebral cortex and its alterations in Alzheimer's disease. Mesulam MM. **Prog Brain Res** 1996; 109:285–97 (105 ref.)

Transverse and longitudinal patterns in the mammalian cerebellum. Voogd J, et al. **Prog Brain Res** 1997;114:21–37 (78 ref.)

The central adaptation syndrome: psychosocial stress as a trigger for adaptive modifications of brain structure and brain function. Huether G. **Prog Neurobiol** 1996 Apr; 48(6):569–612 (455 ref.)

The microscopic anatomy and physiology of the mammalian saccadic system. Moschovakis AK, et al. **Prog Neurobiol** 1996 Oct;50(2–3):133–254 (699 ref.)

Polarization anatomy of a kainic acid seizure. Dasheiff RM, et al. **Psychiatry Clin Neurosci** 1997 Jun;51(3):145–9

Landmark–based registration and measurement of magnetic resonance images: a reliability study. Arndt S, et al. **Psychiatry Res** 1996 Jul 31;67(2):145–54

Accuracy and reproducibility of brain and tissue volumes using a magnetic resonance segmentation method. Byrum CE, et al. **Psychiatry Res** 1996 Oct 7;67(3):215–34

Schizophrenia as a chronic active brain process: a study of progressive brain structural change subsequent to the onset of schizophrenia. DeLisi LE, et al. **Psychiatry Res** 1997 Jul 4;74(3):129–40

Magnetic resonance brain imaging in women with obsessive–compulsive disorder and trichotillomania. Stein DJ, et al. **Psychiatry Res** 1997 Jul 4;74(3):177–82

Interactive brain atlas with the Visible Human Project data: development methods and techniques. Toh MY, et al. **Radiographics** 1996 Sep;16(5):1201–6

Volumetric method for evaluating magnetization transfer ratio of tissue categories: application to areas of white matter signal hyperintensity in the elderly. Tanabe JL, et al. **Radiology** 1997 Aug;204(2):570–5

Functional MR imaging during odor stimulation: preliminary data. Yousem DM, et al. **Radiology** 1997 Sep;204(3):833–8

New imaging methods provide a better view into the brain [news] Barinaga M. **Science** 1997 Jun 27;276(5321):1974–6

Bone sizes trace the decline of man (and woman) [news] Gibbons A. **Science** 1997 May 9;276(5314):896–7

The fornix of the human brain: evidence of left/right asymmetry on axial MRI scans. Supprian T, et al. **Surg Radiol Anat** 1997;19(2):105–9

Brain region–specific and time–dependent decreases of G alpha i2 in amygdala–kindled rats. Cutz JC, et al. **Synapse** 1996 Mar;22(3):226–31

In vivo SPECT imaging of 5–HT1A receptors with [123I]p–MPPI in nonhuman primates. Kung HF, et al. **Synapse** 1996 Nov;24(3):273–81

Magnetization transfer magnetic resonance imaging: a clinical review. Mehta RC, et al. **Top Magn Reson Imaging** 1996 Aug;8(4):214–30 (66 ref.)

How should brain nuclei be delineated? They don't need to be! [letter; comment] Ball GF, et al. **Trends Neurosci** 1997 Aug;20(8):344; discussion 345–6. Comment on: Trends Neurosci 1997 Feb;20(2):58–62.

How should brain nuclei be delineated? They don't need to be! [letter; comment] Bottjer SW, et al. **Trends Neurosci** 1997 Aug;20(8):344–5; discussion 345–6. Comment on: Trends Neurosci 1997 Feb;20(2):58–62.

How should brain nuclei be delineated? They don't need to be! [letter; comment] Brenowitz EA, et al. **Trends Neurosci** 1997 Aug;20(8):345; discussion 345–6. Comment on: Trends Neurosci 1997 Feb;20(2):58–62.

How should brain nuclei be delineated? They don't need to be! [letter; comment] Vogels O. **Trends Neurosci** 1997 Aug; 20(8):343–4; discussion 345–6. Comment on: Trends Neurosci 1997 Feb;20(2):58–62.

Component–placement optimization in the brain [letter; comment] Young MP, et al. **Trends Neurosci** 1996 Oct; 19(10):413–5. Comment on: Trends Neurosci 1995 Dec;18(12):522–7.

Transvaginal fetal neurosonography: standardization of the planes and sections by anatomic landmarks. Timor–Tritsch IE, et al. **Ultrasound Obstet Gynecol** 1996 Jul;8(1):42–7

Magnetic resonance imaging of the brain of normal neonatal foals. Chaffin MK, et al. **Vet Radiol Ultrasound** 1997 Mar–Apr;38(2):102–11

[The skull and brain according to Leonardo: a survey on 4 pages by de Vinci and analogy of the onion. The scientific philosophy of the domino theory (editorial)] Castan P. **J Neuroradiol** 1997 Aug;24(2):79–82 **(Fre)**

[Sexual dimorphism of the human brain—a review of the literature] Supprian T, et al. **Fortschr Neurol Psychiatr** 1996 Oct;64(10):382–9 (61 ref.) (Eng. Abstr.) **(Ger)**

[Neural pathways—neural networks] Palkovits M. **Orv Hetil** 1996 Jun 9;137(23):1235–43 (49 ref.) (Eng. Abstr.) **(Hun)**

[The basic concepts of the use of magnetic resonance in neuropediatrics] Trasimeni G, et al. **Clin Ter** 1996 May; 147(5):259–66 (Eng. Abstr.) **(Ita)**

[Magnetic resonance of the brain: comparative assessment of conventional sequences versus fast sequences] Cardone G, et al. **Radiol Med (Torino)** 1997 May;93(5):514–9 (Eng. Abstr.) **(Ita)**

[Anatomy of cerebrospinal fluid system and blood–brain barrier] Amano T. **Nippon Naika Gakkai Zasshi** 1996 May 10;85(5):659–62 (6 ref.) **(Jpn)**

[Brain structures of reading Japanese words with functional MRI] Makabe T, et al. **Nippon Rinsho** 1997 Jul; 55(7):1699–705 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Magnetic resonance axonography by diffusion weighted echo planar imaging] Matsuzawa H, et al. **Nippon Rinsho** 1997 Jul;55(7):1748–51 (Eng. Abstr.) **(Jpn)**

[Brain functional MRI using 3D–SPGR pulse sequence] Watanabe Y, et al. **Nippon Rinsho** 1997 Jul;55(7):1675–8 (Eng. Abstr.) **(Jpn)**

[Microanatomy and microsurgery for tumors involving the cavernous sinus] Tamaki N, et al. **No Shinkei Geka** 1997 May;25(5):399–409 (19 ref.) **(Jpn)**

[Morphometric characteristics of the brain of 2–month–old rats depending upon the body weight at 1 month of age] Ryzhavskiĭ BIa. **Biull Eksp Biol Med** 1997 Jul;124(7):115–7 **(Rus)**

[Selection of mice for brain weight] Popova NV, et al. **Genetika** 1997 Mar;33(3):413–6 (Eng. Abstr.) **(Rus)**

[Morphometric comparisons of the left and right cerebral hemispheres in Karayak sheep (Ovis aries)] Bilgiç S, et al. **Morfologiia** 1996;110(5):23–5 (Eng. Abstr.) **(Rus)**

[The brain of V. V. Maiakovskiĭ] Bogolepova IN, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(5):47–50 **(Rus)**

[An aversive olfactory signal during the Y–maze learning of mice selected for greater or lesser brain weight] Kholmanskikh SS, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):527–32 (Eng. Abstr.) **(Rus)**

[Weight of the normal brain of the Venezuelan adult according to sex and age] Sánchez R, et al. **Invest Clin** 1997 Jun;38(2):83–93 (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY

First–pass perfusion measurements of the rat and human brain: experimental data and first clinical observations. Laubenberger J, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S387–8

Three–dimensional metabolic and hemodynamic imaging of the normal and ischemic rat brain. Ginsberg MD, et al. **Acta Neurochir Suppl (Wien)** 1996;66:44–9

"Small volume resuscitation" as treatment of cerebral blood flow disturbances and increased ICP in trauma and ischemia. Kempski O, et al. **Acta Neurochir Suppl (Wien)** 1996;66:114–7

Effect of LINAC radiosurgery on regional cerebral blood flow, glucose metabolism and sodium–potassium AtPase in skull base meningiomas and metastasis. Warnke PC, et al. **Acta Neurochir Suppl (Wien)** 1997;68:124–6

Treatment of dissecting basilar artery aneurysm by flow reversal. Amin-Hanjani S, et al. **Acta Neurochir (Wien)** 1997;139(1):44-51 (38 ref.)

Brain tissue pO2 in relation to cerebral perfusion pressure, TCD findings and TCD-CO2-reactivity after severe head injury. Dings J, et al. **Acta Neurochir (Wien)** 1996; 138(4):425-34

Comparison of changes in cerebral blood flow and cerebral oxygen saturation measured by near infrared spectroscopy (NIRS) after acetazolamide. Holzschuh M, et al. **Acta Neurochir (Wien)** 1997;139(1):58-62

Alterations of local cerebral blood flow, phorbol 12,13-dibutyrate binding activity, and histological damage during acute focal ischaemia in rat brain. A pathophysiology of acute focal ischaemia: Part 1. Inoue N, et al. **Acta Neurochir (Wien)** 1996;138(9):1118-24; discussion 1124-5

Cytochrome oxidase activity during acute focal ischaemia in rat brain. A pathophysiology of acute focal ischaemia: Part 2. Inoue N, et al. **Acta Neurochir (Wien)** 1996; 138(9):1126-31

Stump pressure as a guide to the safety of permanent occlusion of the internal carotid artery. Kurata A, et al. **Acta Neurochir (Wien)** 1996;138(5):549-54

Inhibition of nitric oxide generation and lipid peroxidation attenuates hemolysate-induced injury to cerebrovascular endothelium. Kwan AL, et al. **Acta Neurochir (Wien)** 1997; 139(3):240-7; discussion 247-8

Changes in transcranial Doppler flow velocity waveform following inhibition of nitric oxide synthesis. Experimental study in anaesthetised rabbits. Richards HK, et al. **Acta Neurochir (Wien)** 1997;139(1):63-9; discussion 69-70

Arterio-jugular differences of oxygen (AVDO2) for bedside assessment of CO2-reactivity and autoregulation in the acute phase of severe head injury. Sahuquillo J, et al. **Acta Neurochir (Wien)** 1996;138(4):435-44

Haemodynamic classification of symptomatic obstructive carotid artery disease. Sorteberg A, et al. **Acta Neurochir (Wien)** 1996;138(9):1079-86; discussion 1086-7

MR imaging of multiple cerebral infarctions in angiotropic lymphoma (neoplastic angio-endotheliosis). Takagi Y, et al. **Acta Neurochir (Wien)** 1997;139(5):478-9

Ultrastructural study of brain microvessels in patients with traumatic cerebral contusions. Vaz R, et al. **Acta Neurochir (Wien)** 1997;139(3):215-20

Effects of morphine and naloxone on cerebral blood flow and metabolism in experimental subarachnoid hemorrhage. Hauerberg J, et al. **Acta Neurol Scand** 1997 Sep; 96(3):187-93

Assessment of the ophthalmic artery as a collateral to the cerebral circulation. A comparison of transorbital Doppler ultrasonography and regional cerebral blood flow measurements. Kerty E, et al. **Acta Neurol Scand** 1996 May; 93(5):374-9

Brain perfusion SPECT and EEG findings in Rett syndrome. Lappalainen R, et al. **Acta Neurol Scand** 1997 Jan; 95(1):44-50

Basilar artery blood flow during head rotation in vertebrobasilar ischemia. Petersen B, et al. **Acta Neurol Scand** 1996 Oct;94(4):294-301

Application of PET in dementia disorders. Nordberg A. **Acta Neurol Scand Suppl** 1996;168:71-6 (50 ref.)

Diagnosis of dementia by regional cerebral blood flow measurements using 133Xe and stationary detectors. Risberg J. **Acta Neurol Scand Suppl** 1996;168:59-62 (42 ref.)

SPECT measurements of brain function in dementia; a review. Ryding E. **Acta Neurol Scand Suppl** 1996;168:54-8 (87 ref.)

A laser microprobe mass analysis of trace elements in brain mineralizations and capillaries in Fahr's disease. Bouras C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):351-7

Distribution of amyloid deposits in the cerebral white matter of the Alzheimer's disease brain: relationship to blood vessels. Iwamoto N, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):334-40

Ultrastructural concomitants of hypoxia-induced angiogenesis. Stewart PA, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):579-84

Cerebral blood flow of the exposed brain surface measured by laser Doppler perfusion imaging. Kimme P, et al. **Acta Physiol Scand** 1997 Jan;159(1):15-22

Susceptibility contrast imaging of CO2-induced changes in the blood volume of the human brain. Rostrup E, et al. **Acta Radiol** 1996 Sep;37(5):813-22

A novel method to demonstrate capillary geometry and perfusion patterns in rat brain from the same histological section. Batra S, et al. **Adv Exp Med Biol** 1996;388:77-83

Adequacy of cerebral vascular remodeling following three weeks of hypobaric hypoxia. Examined by an integrated composite analytical model. Lauro KL, et al. **Adv Exp Med Biol** 1997;411:369-76

How to evaluate slow oxygenation changes to estimate absolute cerebral haemoglobin concentration by near infrared spectrophotometry in neonates. Wolf M, et al. **Adv Exp Med Biol** 1997;411:495-501

Estimation of cerebral blood volume and transit time in neonates from quick oxygen increases measured by near-infrared spectrophotometry. Wolf M, et al. **Adv Exp Med Biol** 1996;388:93-9

Equal oxygen delivery may not result in equal oxygen consumption. Ye GF, et al. **Adv Exp Med Biol** 1997; 411:331-6

Bolus injection of MR contrast agents: hemodynamic effects evaluated by intracerebral laser Doppler flowmetry in rats. Doerfler A, et al. **AJNR Am J Neuroradiol** 1997 Mar; 18(3):427-34

Vertebral vein imaging with MR angiography [letter; comment] Dumas JL, et al. **AJNR Am J Neuroradiol** 1997 Jun-Jul;18(6):1190-2. Comment on: AJNR Am J Neuroradiol 1996 Jan;17(1):191-2.

Human germinal matrix: venous origin of hemorrhage and vascular characteristics [see comments] Ghazi-Birry HS, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):219-29. Comment in: AJNR Am J Neuroradiol 1997 Feb;18(2):231-2.

Dissecting aneurysms of all four cervicocranial arteries in fibromuscular dysplasia: treatment with self-expanding endovascular stents, coil embolization, and surgical ligation. Manninen HI, et al. **AJNR Am J Neuroradiol** 1997 Aug; 18(7):1216-20

Effect of intraarterial papaverine on cerebral circulation time. Milburn JM, et al. **AJNR Am J Neuroradiol** 1997 Jun-Jul; 18(6):1081-5

Assessment of whole-brain vasodilatory capacity with acetazolamide challenge at 1.5 T using dynamic contrast imaging with frequency-shifted burst. Petrella JR, et al. **AJNR Am J Neuroradiol** 1997 Jun-Jul;18(6):1153-61

New concepts in the pathogenesis of germinal matrix intraparenchymal hemorrhage in premature infants [comment] Taylor GA. **AJNR Am J Neuroradiol** 1997 Feb; 18(2):231-2. Comment on: AJNR Am J Neuroradiol 1997 Feb;18(2):219-29.

Effect of chronic alcohol consumption on responses of cerebral arterioles. Mayhan WG, et al. **Alcohol Clin Exp Res** 1996 May;20(3):538-42

Lack of effect of antenatal indomethacin on fetal cerebral blood flow. Parilla BV, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1166-9; discussion 1169-71

Neuronal NO promotes cerebral cortical hyperemia during cortical spreading depression in rabbits. Colonna DM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1315-22

Facilitation of postischemic reperfusion with alpha-PBN: assessment using NMR and Doppler flow techniques. Schulz JB, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1986-95

Role of leukocytes in cerebral autoregulation and hyperemia in bacterial meningitis in rabbits. Slater AJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H380-6

IL-6 secreted by astroglial cells regulates Na-K-Cl cotransport in brain microvessel endothelial cells. Sun D, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1829-35

Flow-independent heterogeneity of brain capillary plasma perfusion after blood exchange with a Newtonian fluid. Vogel J, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1833-7

Vascular endothelial growth factor affects permeability of brain microvessel endothelial cells in vitro. Wang W, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1973-80

SPECT study of regional cerebral perfusion in neuroleptic-resistant schizophrenic patients who responded or did not respond to clozapine. Molina Rodriguez V, et al. **Am J Psychiatry** 1996 Oct;153(10):1343-6

Intracranial pressure and cerebral perfusion pressure in clinically normal equine neonates. Kortz GD, et al. **Am J Vet Res** 1995 Oct;56(10):1351-5

Separate-hypothermia retrograde cerebral perfusion. Imamaki M, et al. **Ann Thorac Surg** 1997 Feb;63(2):547-8

Regional blood flow during pulsatile cardiopulmonary bypass and after circulatory arrest in an infant model. Lodge AJ, et al. **Ann Thorac Surg** 1997 May;63(5):1243-50

Operation for type B aortic dissection using hypothermic selective cerebral perfusion. Tayama K, et al. **Ann Thorac Surg** 1997 Feb;63(2):535-7

Occlusive fibromuscular disease of arteries supplying the brain: results of surgical treatment. Chiche L, et al. **Ann Vasc Surg** 1997 Sep;11(5):496-504

The arteries of the base of the brain in the N. American mink (Mustela vison (Brisson, 1756)). Gościcka D, et al. **Arch Vet Pol** 1995;35(1-2):145-51

Human brain pericytes differentially regulate expression of procoagulant enzyme complexes comprising the extrinsic pathway of blood coagulation. Bouchard BA, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):1-9

Enhancement of brain p0(2) during cardiopulmonary bypass using a hyperosmolar oxygen carrying solution. Runge TM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May;25(3):297-308

Alteration of cerebral microcirculation by hemodilution with hemosome in awake rats. Wang YC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan; 24(1):35-42

Total and regional cerebral blood flow during recovery from G-LOC. Werchan PM, et al. **Aviat Space Environ Med** 1996 Aug;67(8):751-8

P-glycoprotein is strongly expressed in the luminal membranes of the endothelium of blood vessels in the brain. Beaulieu E, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):539-44

Hypotonicity-induced changes in anion permeability of cultured rat brain endothelial cells. von Weikersthal SF, et al. **Biochim Biophys Acta** 1997 Apr 3;1325(1):99-107

Changes in cerebral hemodynamics and oxygenation during hypothermic cardiopulmonary bypass in neonates and infants. Van Bel F, et al. **Biol Neonate** 1996;70(3):141-54

PET brain mapping study of auditory verbal supraspan memory versus visual fixation in schizophrenia. Ganguli R, et al. **Biol Psychiatry** 1997 Jan 1;41(1):33-42

Gender differences in regional cerebral blood flow during transient self-induced sadness or happiness. George MS, et al. **Biol Psychiatry** 1996 Nov 1;40(9):859-71

A brain imaging (single photon emission computerized tomography) study of semantic and affective processing in psychopaths. Intrator J, et al. **Biol Psychiatry** 1997 Jul 15;42(2):96-103

Effect of nitrous oxide on cerebral blood velocity while reclining and standing. Mathew RJ, et al. **Biol Psychiatry** 1997 May 1;41(9):979-84

Postural syncope and autoregulation of cerebral blood flow. Mathew RJ. **Biol Psychiatry** 1996 Nov 1;40(9):923-6 (34 ref.)

Cerebral vasodilation and vasoconstriction associated with acute anxiety. Mathew RJ, et al. **Biol Psychiatry** 1997 Apr 1;41(7):782-95

Acute changes in cranial blood flow after cocaine hydrochloride. Mathew RJ, et al. **Biol Psychiatry** 1996 Oct 1;40(7):609-16

The effect of antipsychotic medication on relative cerebral blood perfusion in schizophrenia: assessment with technetium-99m hexamethyl-propyleneamine oxime single photon emission computed tomography. Miller DD, et al. **Biol Psychiatry** 1997 Mar 1;41(5):550-9

Transcranial cerebral oximetry in the hyperbaric environment. Litscher G, et al. **Biomed Tech (Berl)** 1997 Mar;42(3):38-41

Transcranial cerebral oximetry--is it clinically useless at this moment to interpret absolute values obtained by the INVOS 3100 cerebral oximeter? Litscher G, et al. **Biomed Tech (Berl)** 1997 Apr;42(4):74-7

Cerebral venous oxygen saturation monitoring: is dominant jugular bulb cannulation good enough? Lam JM, et al. **Br J Neurosurg** 1996 Aug;10(4):357-64

A PET study on brain control of micturition in humans. Blok BF, et al. **Brain** 1997 Jan;120 (Pt 1):111-21

Regional cerebral blood flow throughout the sleep-wake cycle. An H2(15)O PET study. Braun AR, et al. **Brain** 1997 Jul;120 (Pt 7):1173-97

Responsiveness of the trigeminovascular system to nitroglycerine in cluster headache patients. Fanciullacci M, et al. **Brain** 1997 Feb;120 (Pt 2):283-8

Inflammatory brain changes in Lyme borreliosis. A report on three patients and review of literature. Oksi J, et al. **Brain** 1996 Dec;119 (Pt 6):2143-54

Lateralized changes in regional cerebral blood flow during performance of verbal and facial recognition tasks: correlations with performance and "effort". Gur RC, et al. **Brain Cogn** 1997 Apr;33(3):388-414

Assessment of the functional effect of the intracarotid sodium amobarbital procedure using co-registered MRI/HMPAO-SPECT and SEEG. McMackin D, et al. **Brain Cogn** 1997 Feb;33(1):50-70

Hypoxic and ischemic disorders of infants and children. Lecture for 38th meeting of Japanese Society of Child Neurology, Tokyo, Japan, July 1996. Johnston MV. **Brain Dev** 1997 Jun;19(4):235-9 (50 ref.)

Moyamoya disease with a marked collateral supply through the artery of Bernasconi-Cassinari. Pascual-Castroviejo I, et al. **Brain Dev** 1996 Jan-Feb;18(1):71-4

Brain functional profiles in formal and semantic fluency tasks: a SPECT study in normals. Cardebat D, et al. **Brain Lang** 1996 Feb;52(2):305-13

Brain energy metabolism in early blind subjects: neural activity in the visual cortex. De Volder AG, et al. **Brain Res** 1997 Mar 7;750(1-2):235-44

Regional assessment of tissue oxygenation and the temporal evolution of hemodynamic parameters and water diffusion during acute focal ischemia in rat brain. Dijkhuizen RM, et al. **Brain Res** 1997 Mar 7;750(1-2):161-70

Local changes in oxygen tension and blood flow in the brain under hyperthermia induced by intracerebroventricular NMDA in rats. Hara S, et al. **Brain Res** 1996 Oct 21; 737(1-2):339-42

Time-course and reversibility of the hypoxia-induced alterations in cerebral vascularity and cerebral capillary glucose transporter density. Harik N, et al. **Brain Res** 1996 Oct 21;737(1-2):335-8

Increased collagen content of cerebral microvessels in Alzheimer's disease. Kalaria RN, et al. **Brain Res** 1995 Dec 24;705(1-2):349-52

Effect of long-term administration of ethyl eicosapentate (EPA-E) on local cerebral blood flow and glucose utilization in stroke-prone spontaneously hypertensive rats (SHRSP). Katayama Y, et al. **Brain Res** 1997 Jul 4; 761(2):300-5

Hyperthermia enhances spectrin breakdown in transient focal cerebral ischemia. Morimoto T, et al. **Brain Res** 1997 Jan 23;746(1-2):43-51

Beneficial effects of TDN-345, a novel Ca2+ antagonist, on ischemic brain injury and cerebral glucose metabolism in experimental animal models with cerebrovascular lesions. Nakayama T, et al. **Brain Res** 1997 Jul 11; 762(1-2):203-10

Protein kinase C in focal ischemic rat brain: dual autoradiographic analysis of [14C]iodoantipyrine (IAP) and [3H]phorbol-12,13-dibutyrate (PDBu). Tohyama Y, et al. **Brain Res** 1997 Mar 7;750(1-2):155-60

Platelet/endothelial cell adhesion molecule-1 (PECAM-1) expression by human brain microvessel endothelial cells

in primary culture. Wong D, et al. **Brain Res** 1996 Aug 26;731(1–2):217–20

Subarachnoid hemorrhage impairs cerebral blood flow response to nitric oxide but not to cyclic GMP in large cerebral arteries. Yamamoto S, et al. **Brain Res** 1997 May 16;757(1):1–9

Cranial defect and decrease in cerebral blood flow resulting from deep contact burn of the scalp in the neonatal period. Matsumura H, et al. **Burns** 1996 Nov;22(7):560–5 (14 ref.)

The vascular compartment hampers accurate determination of teniposide penetration into brain tumor tissue. van Tellingen O, et al. **Cancer Chemother Pharmacol** 1997; 40(4):330–4

Surgical management of type A aortic dissection: evaluation of predisposing factors for postoperative neurologic complication and late reoperation. Ahn H, et al. **Cardiovasc Surg** 1997 Feb;5(1):104–11

Is transcranial Doppler effective in avoiding the hazards of carotid surgery? Bornstein NM, et al. **Cardiovasc Surg** 1996 Jun;4(3):335–7

Levuglandin E2–protein adducts in human plasma and vasculature. Salomon RG, et al. **Chem Res Toxicol** 1997 May;10(5):536–45

Potassium channels and the cerebral circulation. Faraci FM, et al. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1091–5 (76 ref.)

Cerebral arteriopathy in scleroderma [letter] Blanche P, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):700–1

Near-infrared spectroscopy for the in vivo study of cerebral hemodynamics and oxygenation. du Plessis AJ. **Curr Opin Pediatr** 1995 Dec;7(6):632–9 (37 ref.)

Agrin accumulates in the brain microvascular basal lamina during development of the blood–brain barrier. Barber AJ, et al. **Dev Dyn** 1997 Jan;208(1):62–74

Changes in cerebral blood flow velocity in healthy young men during overnight sleep and while awake. Kuboyama T, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb; 102(2):125–31

The relation between arterial oxygen tension and cerebral blood flow during cardiopulmonary bypass. Chow G, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):633–9

Extensive resection with selective cerebral perfusion for a lung cancer invading the aortic arch. Okubo K, et al. **Eur J Cardiothorac Surg** 1996;10(5):389–91

Surgery of the thoracic aorta with hypothermic circulatory arrest: experience with retrograde perfusion via the superior vena cava and demonstration of cerebral perfusion. Pagano D, et al. **Eur J Cardiothorac Surg** 1996;10(10):833–8; discussion 839

Retrograde cerebral perfusion through antero–axillary thoracotomy in the aortic arch surgery. Sasaguri S, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):657–60

Simplified technique for antegrade cerebral perfusion. Scorsin M, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):776–8

Antihypertensive drugs and cerebral circulation. Strandgaard S, et al. **Eur J Clin Invest** 1996 Aug;26(8):625–30 (55 ref.)

Direct cell/cell contact with stimulated T lymphocytes induces the expression of cell adhesion molecules and cytokines by human brain microvascular endothelial cells. Lou J, et al. **Eur J Immunol** 1996 Dec;26(12):3107–13

Recombinant human adenovirus with rat MIP–2 gene insertion causes prolonged PMN recruitment to the murine brain. Bell MD, et al. **Eur J Neurosci** 1996 Sep;8(9):1803–11

A critique of a new analysis proposed for functional neuroimaging [see comments] [published erratum appears in Eur J Neurosci 1996 Dec;8(12):2758] Frackowiak RS, et al. **Eur J Neurosci** 1996 Nov;8(11):2229–31. Comment in: Eur J Neurosci 1996 Nov;8(11):2232–5.

The impact of surfactant replacement therapy on cerebral and systemic circulation and lung function. Schipper JA, et al. **Eur J Pediatr** 1997 Mar;156(3):224–7

Vasodilator effects of C–type natriuretic peptide on cerebral arterioles in rats. Mori Y, et al. **Eur J Pharmacol** 1997 Feb 12;320(2–3):183–6

Effects of adrenomedullin on rat cerebral arterioles. Mori Y, et al. **Eur J Pharmacol** 1997 Jul 9;330(2–3):195–8

Endothelin receptor mediated constriction and dilatation in feline cerebral resistance arterioles in vivo. Patel TR, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):41–8

Cerebral oxygen metabolism in patients with progressive supranuclear palsy: a positron emission tomography study. Santens P, et al. **Eur Neurol** 1997;37(1):18–22

Establishment of the permanent microvascular endothelial cell line PBMEC/C1–2 from porcine brains. Teifel M, et al. **Exp Cell Res** 1996 Oct 10;228(1):50–7

Modulatory effect of extracellular Mg2+ ions on K+ and Ca2+ currents of capillary endothelial cells from rat brain. Delpiano MA, et al. **FEBS Lett** 1996 Oct 7;394(3):335–9

Expression of receptors for native and chemically modified low–density lipoproteins in brain microvessels. Lucarelli M, et al. **FEBS Lett** 1997 Jan 13;401(1):53–8

Types of terminal division of the posterior cerebral artery in man. Czerwiński F, et al. **Folia Morphol (Warsz)** 1996; 55(3):161–5

Decreased local cerebral blood flow in young and aged spontaneously hypertensive rats. Katsuta T. **Fukuoka Igaku Zasshi** 1997 Mar;88(3):65–74

SPECT and TCD studies in cluster headache patients. Afra J, et al. **Funct Neurol** 1995 Nov–Dec;10(6):259–64

Cerebromicrovascular pathology in Alzheimer's disease compared to normal aging. de la Torre JC. **Gerontology** 1997;43(1–2):26–43 (154 ref.)

Monitoring for cerebrovascular surgery. Bloom MJ, et al. **Int Anesthesiol Clin** 1996 Summer;34(3):137–47 (56 ref.)

Regional cerebral blood flow and neuropsychological performance in a Danish family with X–linked bulbo–spinal neuronopathy. Tedeschi E, et al. **Int J Neurosci** 1995 Nov; 83(1–2):59–68

Studies of Plasmodium falciparum cytoadherence using immortalized human brain capillary endothelial cells. Prudhomme JG, et al. **Int J Parasitol** 1996 Jun;26(6):647–55

Magnetic resonance angiographic evaluation of circulus arteriosus cerebri (circle of Willis): a morphologic study in 100 human healthy subjects. Macchi C, et al. **Ital J Anat Embryol** 1996 Apr–Jun;101(2):115–23

The inner diameter of human intracranial vertebral artery by color Doppler method. Macchi C, et al. **Ital J Anat Embryol** 1996 Apr–Jun;101(2):81–7

Polycythaemia and agoraphobia. Haghighat R, et al. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):149–55

A simple technique for retrograde cerebral perfusion during circulatory arrest. Cope JT, et al. **J Card Surg** 1996 Jan–Feb;11(1):65–7

What is the safe time limit for retrograde cerebral perfusion with hypothermic circulatory arrest in aortic surgery? Sasaguri S, et al. **J Cardiovasc Surg (Torino)** 1996 Oct; 37(5):441–4

Occludin as a possible determinant of tight junction permeability in endothelial cells. Hirase T, et al. **J Cell Sci** 1997 Jul;110 (Pt 14):1603–13

XVIII International Symposium on Cerebral Blood Flow and Metabolism. Baltimore, Maryland, 15–19 June 1997. Abstracts. **J Cereb Blood Flow Metab** 1997;17 Suppl 1:S1–806

Interaction between ATP–sensitive K+ channels and nitric oxide on pial arterioles in piglets. Bari F, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1158–64

Endothelin stimulates phosphoinositide hydrolysis and PAF synthesis in brain microvessels. Catalán RE, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1325–34

GABAergic regulation of cerebral microvascular tone in the rat. Fergus A, et al. **J Cereb Blood Flow Metab** 1997 Sep; 17(9):992–1003

Decreased heterogeneity of capillary plasma flow in the rat whisker–barrel cortex during functional hyperemia. Vogel J, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1300–6

Chronic nicotine treatment enhances focal ischemic brain injury and depletes free pool of brain microvascular tissue plasminogen activator in rats. Wang L, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):136–46

Distribution of Glut1 glucose transporters in different brain structures compared to glucose utilization and capillary density of adult rat brains. Zeller K, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):204–9

Brain capillary perfusion during sleep. Zoccoli G, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1312–8

Transient cerebral ischemia. Association of apoptosis induction with hypoperfusion. Vexler ZS, et al. **J Clin Invest** 1997 Mar 15;99(6):1453–9

Expression of bFGF and VEGF in brain astrocytoma. Shim JW, et al. **J Korean Med Sci** 1996 Apr;11(2):149–57

Polyunsaturated fatty acid metabolism in retinal and cerebral microvascular endothelial cells. Delton–Vandenbrouke I, et al. **J Lipid Res** 1997 Jan;38(1):147–59

Signal–to–noise analysis of cerebral blood volume maps from dynamic NMR imaging studies. Boxerman JL, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):528–37

Contrast–to–noise ratio in functional MRI of relative cerebral blood volume with sprodiamide injection. Lev MH, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):523–7

Regional cerebral blood volume measured by dynamic susceptibility contrast MR imaging in Alzheimer's disease: a principal components analysis. Maas LC, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):215–9

MR flow quantification using RACE: clinical application to the carotid arteries. Möller HE, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):503–12

Evaluation of peri–infarcted hypoperfusion with T2*–weighted dynamic MRI. Tsuchida C, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):518–22

The cervical subluxation and regional cerebral blood flow. Budgell BS, et al. **J Manipulative Physiol Ther** 1997 Feb; 20(2):103–7 (37 ref.)

Novel 99mTc aminobisthiolato/monothiolato "3 + 1" mixed ligand complexes: structure–activity relationships and preliminary in vivo validation as brain blood flow imaging agents. Pirmettis IC, et al. **J Med Chem** 1997 Aug 1; 40(16):2539–46

rCBF SPECT in Parkinson's disease patients with mental dysfunction. Bissessur S, et al. **J Neural Transm Suppl** 1997; 50:25–30 (38 ref.)

Role of P–glycoprotein in the blood–brain transport of colchicine and vinblastine. Drion N, et al. **J Neurochem** 1996 Oct;67(4):1688–93

Brain microvascular and astrocyte localization of P–glycoprotein. Pardridge WM, et al. **J Neurochem** 1997 Mar;68(3):1278–85

Hypoxia dramatically increases the nonspecific transport of blood–borne proteins to the brain. Plateel M, et al. **J Neurochem** 1997 Feb;68(2):874–7

Ultrastructural study on the interaction of native and cationized albumin–gold complexes with mouse brain microvascular endothelium. Vorbrodt AW, et al. **J Neurocytol** 1996 Nov;25(11):645–57

Visualization of the cerebral circulation using three–dimensional transcranial power Doppler ultrasound imaging. Lyden PD, et al. **J Neuroimaging** 1997 Jan; 7(1):35–9

Modulation of soluble and membrane–bound TNF–induced phenotypic and functional changes of human brain microvascular endothelial cells by recombinant TNF binding protein I. Lou J, et al. **J Neuroimmunol** 1997 Jul; 77(1):107–15

The induction of ICAM–1 in human cerebromicrovascular endothelial cells (HCEC) by ischemia–like conditions promotes enhanced neutrophil/HCEC adhesion. Stanimirovic D, et al. **J Neuroimmunol** 1997 Jun; 76(1–2):193–205

Selective expression of adhesion molecules on human brain microvascular endothelial cells. Stins MF, et al. **J Neuroimmunol** 1997 Jun;76(1–2):81–90

Increased adhesion of CD4+ and CD14+ mononuclear cells to cultured multiple sclerosis brain endothelial cells [letter] Dufour A, et al. **J Neurol** 1996 Sep;243(9):666–7

Age related cognitive decline: a clinical entity? A longitudinal study of cerebral blood flow and memory performance. Celsis P, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):601–8

Gaze related enhancement of hemispheric blood flow in a stroke patient. Nadeau SE, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):538–40

Incidental cerebral venous thrombosis in a patient with multiple sclerosis. Al Bunyan M, et al. **J Neurol Sci** 1997 Aug;149(2):191–4

Glycogen accumulated in the brain following insults is not degraded during a subsequent period of ischemia. Folbergrova J, et al. **J Neurol Sci** 1996 Apr;137(1):7–13

Transcranial doppler assessment of cerebral flow velocity during perception and recognition of melodies. Matteis M, et al. **J Neurol Sci** 1997 Jul;149(1):57–61

Assessment of cerebrovascular reactivity by dynamic susceptibility contrast–enhanced MR imaging. Nighoghossian N, et al. **J Neurol Sci** 1997 Aug;149(2):171–6

Intracarotid recombinant human tumor necrosis factor–alpha reduces cerebral blood flow and methionine uptake in rat brain tumors. Sasajima T, et al. **J Neurooncol** 1997 Sep; 34(2):123–9

Hematogenous metastases of the human brain—characteristics of peritumoral brain changes: a review. Zhang M, et al. **J Neurooncol** 1997 Oct;35(1):81–9 (79 ref.)

Cerebral structures participating in motor preparation in humans: a positron emission tomography study. Deiber MP, et al. **J Neurophysiol** 1996 Jan;75(1):233–47

Positron emission tomography study of voluntary saccadic eye movements and spatial working memory. Sweeney JA, et al. **J Neurophysiol** 1996 Jan;75(1):454–68

Management of intracranial hemodynamics in the adult: a research analysis of head positioning and recommendations for clinical practice and future research. Simmons BJ. **J Neurosci Nurs** 1997 Feb;29(1):44–9 (31 ref.)

Normal perfusion pressure breakthrough: the role of capillaries. Sekhon LH, et al. **J Neurosurg** 1997 Mar; 86(3):519–24

Intact cerebral blood flow reactivity during remifentanil/nitrous oxide anesthesia. Baker KZ, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):134–40

Comparative effects of propofol, pentobarbital, and isoflurane on cerebral blood flow and blood volume. Todd MM, et al. **J Neurosurg Anesthesiol** 1996 Oct;8(4):296–303

Jugular bulb oxygen saturation and middle cerebral blood flow velocity during cardiopulmonary bypass. von Knobelsdorff G, et al. **J Neurosurg Anesthesiol** 1997 Apr; 9(2):128–33

Posttraumatic hyperemia in immature, mature, and aged rats: autoradiographic determination of cerebral blood flow. Biagas KV, et al. **J Neurotrauma** 1996 Apr;13(4):189–200

Continuous measurement of changes in regional cerebral blood flow following cortical compression contusion trauma in the rat. Nilsson P, et al. **J Neurotrauma** 1996 Apr;13(4):201–7

Brain perfusion after treatment of childhood acute lymphoblastic leukemia. Harila–Saari AH, et al. **J Nucl Med** 1997 Jan;38(1):82–8

Evidence of fetal cerebral vasodilatation induced by submaximal maternal dynamic exercise in human pregnancy. Bonnin P, et al. **J Perinat Med** 1997;25(1):63–70

Isolation and primary culture of rat cerebral microvascular endothelial cells for studying drug transport in vitro. Ichikawa N, et al. **J Pharmacol Toxicol Methods** 1996 Sep; 36(1):45–52

Longitudinal changes in cognitive function and regional cerebral function in Alzheimer's disease: a SPECT blood flow study. Brown DR, et al. **J Psychiatr Res** 1996 Mar–Apr;30(2):109–26

High resolution single photon emission computed tomography of the brain in Wegener's granulomatosis [letter] Marienhagen J, et al. **J Rheumatol** 1996 Oct; 23(10):1828–30

Localization of merosin in the normal human brain: implications for congenital muscular dystrophy with merosin deficiency. Villanova M, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):1–4

Alpha–stat acid–base regulation during cardiopulmonary bypass [letter; comment] Murkin JM.

J Thorac Cardiovasc Surg 1997 Mar;113(3):619–20. Comment on: J Thorac Cardiovasc Surg 1996 Jun;111(6):1267–79.

Influence of hypoxia/ischemia on cerebrovascular responses to oxytocin in piglets. Bari F, et al. **J Vasc Res** 1997 Jul–Aug;34(4):312–20

Human brain microvessel endothelial cell culture as a model system to study vascular factors of ischemic brain. Nagy Z, et al. **Keio J Med** 1996 Sep;45(3):200–6

Retrograde cerebral perfusion with pharmacological cerebral protection in the repair of aortic arch aneurysm. Yamashita C, et al. **Kobe J Med Sci** 1997 Feb;43(1):25–35

Cerebrovascular smooth muscle cells internalize Alzheimer amyloid beta protein via a lipoprotein pathway: implications for cerebral amyloid angiopathy. Urmoneit B, et al. **Lab Invest** 1997 Aug;77(2):157–66

Syndromal vertigo identified by magnetic resonance imaging and angiography. Welsh LW, et al. **Laryngoscope** 1996 Sep; 106(9 Pt 1):1144–51

Use of rhodamine 123 to examine the functional activity of P-glycoprotein in primary cultured brain microvessel endothelial cell monolayers. Fontaine M, et al. **Life Sci** 1996;59(18):1521–31

Observer performance methodologies for evaluating blood vessel visibility in MR angiograms using accurate geometric registration to high resolution x-ray angiograms. Chapman BE, et al. **Magn Reson Med** 1997 Apr; 37(4):519–29

Perfusion imaging by a flow-sensitive alternating inversion recovery (FAIR) technique: application to functional brain imaging [published erratum appears in Magn Reson Med 1997 May;37(5):675] Kim SG, et al. **Magn Reson Med** 1997 Mar;37(3):425–35

Blood flow in the cerebral capillary network: a review emphasizing observations with intravital microscopy. Hudetz AG. **Microcirculation** 1997 Jun;4(2):233–52 (137 ref.)

Conservation of flow demonstrated using the two-slit velocimeter and cross correlator in epiilluminated surface microvessels of the mouse brain. Rosenblum WI. **Microcirculation** 1996 Jun;3(2):187–90

CNS microvascular pericytes express macrophage-like function, cell surface integrin alpha M, and macrophage marker ED-2. Balabanov R, et al. **Microvasc Res** 1996 Sep; 52(2):127–42

A silver impregnation method for study of cerebral microcirculation using confocal, light, and electron microscopy. Fujimoto K, et al. **Microvasc Res** 1996 Jan; 51(1):116–20

Developmental study of ultrastructural and biochemical changes in isolated chick brain microvessels. Nico B, et al. **Microvasc Res** 1997 Jan;53(1):79–91

In vivo incorporation from plasma of radiolabeled palmitate and arachidonate into rat brain microvessels. Williams WM, et al. **Microvasc Res** 1997 Mar;53(2):163–6

Searching for a molecular address in the brain [comment] Pasqualini R, et al. **Mol Psychiatry** 1996 Dec;1(6):421–2. Comment on: Mol Psychiatry 1996 Dec;1(6):423.

Tissue targeting with phage peptide libraries [news] [see comments] Pasqualini R, et al. **Mol Psychiatry** 1996 Dec; 1(6):423. Comment in: Mol Psychiatry 1996 Dec;1(6):421–2.

The influence of oxygen free radicals on the permeability of the monolayer of cultured brain endothelial cells. Imaizumi S, et al. **Neurochem Int** 1996 Aug;29(2):205–11

Glycosyltransferase activities in cultured endothelial cells of bovine brain microvascular origin. Kanda T, et al. **Neurochem Res** 1997 Apr;22(4):463–6

Effect of tumor necrosis factor-alpha on the permeability of bovine brain microvessel endothelial cell monolayers. Anda T, et al. **Neurol Res** 1997 Aug;19(4):369–76

Cerebral blood flow and metabolic response to etomidate and ischemia. Hoffman WE, et al. **Neurol Res** 1997 Feb; 19(1):41–4

Magnetic resonance imaging quantitation of superior sagittal sinus flow: correlation to cerebral blood flow measured by xenon-enhanced computed tomography. Inao S, et al. **Neurol Res** 1997 Feb;19(1):35–40

A mathematical model of the intracranial system including autoregulation. Kadas ZM, et al. **Neurol Res** 1997 Aug; 19(4):441–50

Hemodynamics in an arterial union--simulation study on therapeutic unilateral vertebral artery occlusion. Kawanishi M, et al. **Neurol Res** 1996 Dec;18(6):564–6

Local thrombolytic therapy in deep cerebral venous thrombosis. Smith AG, et al. **Neurology** 1997 Jun; 48(6):1613–9 (37 ref.)

The influence of acute hypoxemia and hypovolemic hypotension of neuronal brain activity measured by the cerebral function monitor in newborn piglets. Bunt JE, et al. **Neuropediatrics** 1996 Oct;27(5):260–4

Brain perfusion SPECT abnormalities in neuronal ceroid lipofuscinoses. Liewendahl K, et al. **Neuropediatrics** 1997 Feb;28(1):71–3

Transcranial color duplex sonography of basal cerebral arteries: reference data of flow velocities from childhood to adulthood. Schöning M, et al. **Neuropediatrics** 1996 Oct; 27(5):249–55

Regional cerebral blood perfusion in children with hemiplegia: A SPECT study. Sztriha L, et al. **Neuropediatrics** 1996 Aug;27(4):178–83

Brain perfusion SPECT in infantile neuronal ceroid-lipofuscinosis (INCL). Comparison with clinical manifestations and MRI findings. Vanhanen SL, et al. **Neuropediatrics** 1996 Apr;27(2):76–83

Comparison of 99m Tc HMPAO SPECT scan between chronic fatigue syndrome, major depression and healthy controls: an exploratory study of clinical correlates of regional cerebral blood flow. Fischler B, et al. **Neuropsychobiology** 1996;34(4):175–83

Correlational patterns of cerebral glucose metabolism in never-medicated schizophrenics. Katz M, et al. **Neuropsychobiology** 1996;33(1):1–11

Hemispheric asymmetry of arterial blood flow velocity changes during verbal and visuospatial tasks. Bulla-Hellwig M, et al. **Neuropsychologia** 1996 Oct;34(10):987–91

The anatomy of collateral venous flow from the brain and its value in aetiological interpretation of intracranial pathology. Andeweg J. **Neuroradiology** 1996 Oct; 38(7):621–8 (47 ref.)

Cerebrospinal fluid pulsation amplitude and its quantitative relationship to cerebral blood flow pulsations: a phase-contrast MR flow imaging study. Bhadelia RA, et al. **Neuroradiology** 1997 Apr;39(4):258–64

Transcranial cerebral oximetry in endovascular treatment of carotid-cavernous fistula. Misra M, et al. **Neuroradiology** 1996 Aug;38(6):590–4

2D time-of-flight MR angiography using concatenated saturation bands for determining direction of flow in the intracranial vessels. Nesbit GM, et al. **Neuroradiology** 1997 Jul;39(7):461–8

Brain microvascular endothelial cells and leukocytes derived from patients with multiple sclerosis exhibit increased adhesion capacity. Lou J, et al. **Neuroreport** 1997 Feb 10; 8(3):629–33

Cysteamine eliminates nitric oxide synthase activity but is not protective to the hypoxic-ischemic neonatal rat brain. Spanggord H, et al. **Neurosci Lett** 1996 Jul 26;213(1):41–4

Simultaneous measurements of lactate and blood flow during hypoxia and recovery from hypoxia in a localized region in the brain of the anesthetized rabbit. Yanai S, et al. **Neurosci Res** 1997 Jan;27(1):75–84

Aneurysm of an azygos anterior cerebral artery: report of two cases and review of the literature. Baykal S, et al. **Neurosurg Rev** 1996;19(1):57–9 (10 ref.)

Diagnosis of carotid-cavernous fistulas with magnetic resonance angiography--demonstrating the draining veins utilizing 3-D time-of-flight and 3-D phase-contrast techniques. Ikawa F, et al. **Neurosurg Rev** 1996;19(1):7–12

The relationship of blood velocity as measured by transcranial doppler ultrasonography to cerebral blood flow as determined by stable xenon computed tomographic studies after aneurysmal subarachnoid hemorrhage. Clyde BL, et al. **Neurosurgery** 1996 May;38(5):896–904; discussion 904–5

Continuous assessment of the cerebral vasomotor reactivity in head injury. Czosnyka M, et al. **Neurosurgery** 1997 Jul; 41(1):11–7; discussion 17–9

Physiological diagnosis and surgical treatment of recurrent limb shaking: case report. Firlik AD, et al. **Neurosurgery** 1996 Sep;39(3):607–11

Transcranial Doppler sonography in a patient with Ehlers-Danlos syndrome: case report. Holzschuh M, et al. **Neurosurgery** 1996 Jul;39(1):170–2; discussion 172–3

Vagus nerve stimulation activates central nervous system structures in epileptic patients during PET H2(15)O blood flow imaging. Ko D, et al. **Neurosurgery** 1996 Aug; 39(2):426–30; discussion 430–1

The surgical anatomy of the relationships between the perforating and the leptomeningeal arteries. Marinković S, et al. **Neurosurgery** 1996 Jul;39(1):72–83

Effect of transient moderate hyperventilation on dynamic cerebral autoregulation after severe head injury. Newell DW, et al. **Neurosurgery** 1996 Jul;39(1):35–43; discussion 43–4

Morphological changes of intraparenchymal arterioles after experimental subarachnoid hemorrhage in dogs. Ohkuma H, et al. **Neurosurgery** 1997 Jul;41(1):230–5; discussion 235–6

Occult cerebrovascular malformations after irradiation. Pozzati E, et al. **Neurosurgery** 1996 Oct;39(4):677–82; discussion 682–4

Isolated cerebral hypothermia by single carotid artery perfusion of extracorporeally cooled blood in baboons [see comments] Schwartz AE, et al. **Neurosurgery** 1996 Sep; 39(3):577–81; discussion 581–2. Comment in: Neurosurgery 1997 Jul;41(1):328.

Cerebral blood flow and autoregulation in normal pressure hydrocephalus. Tanaka A, et al. **Neurosurgery** 1997 Jun; 40(6):1161–5; discussion 1165–7

Rapid reversal of endothelin-1-induced cerebral vasoconstriction by intrathecal administration of nitric oxide donors. Thomas JE, et al. **Neurosurgery** 1997 Jun; 40(6):1245–9

Isolated cerebral hypothermia by single carotid artery perfusion of extracorporeally cooled blood in baboons [letter; comment] White RJ, et al. **Neurosurgery** 1997 Jul; 41(1):328. Comment on: Neurosurgery 1996 Sep;39(3):577–81; discussion 581–2.

Cerebral hemodynamic and metabolic changes caused by brain retraction after aneurysmal subarachnoid hemorrhage. Yundt KD, et al. **Neurosurgery** 1997 Mar; 40(3):442–50; discussion 450–1

Interpretation of BOLD MRI signals in rat brain using simultaneously measured near-infrared spectrophotometric information. Kida I, et al. **NMR Biomed** 1996 Dec; 9(8):333–8

Brain perfusion abnormalities in Rett syndrome: a qualitative and quantitative SPET study with 99Tc(m)-ECD. Burroni L, et al. **Nucl Med Commun** 1997 Jun;18(6):527–34

Regional cerebral blood flow changes after light therapy in seasonal affective disorder. Matthew E, et al. **Nucl Med Commun** 1996 Jun;17(6):475–9

Prenatal ultrasonographic assessment of the middle cerebral artery: a review. Sherer DM. **Obstet Gynecol Surv** 1997 Jul;52(7):444–55 (70 ref.)

Ecgonine methyl ester, a major cocaine metabolite, causes cerebral vasodilation in neonatal sheep. Pane MA, et al. **Pediatr Res** 1997 Jun;41(6):815–21

Changes in cerebral cyclic nucleotides and cerebral blood flow during prolonged asphyxia and recovery in newborn pigs. Pourcyrous M, et al. **Pediatr Res** 1997 May; 41(5):617–23

Group B streptococcal sepsis impairs cerebral vascular reactivity to acute hypercarbia in piglets. Rudinsky BF, et al. **Pediatr Res** 1996 Jan;39(1):55–63

Intermittent antegrade/selective cerebral perfusion during circulatory arrest for repair of the aortic arch. Maas C, et al. **Perfusion** 1997 Mar;12(2):127–32 (12 ref.)

Localized near-infrared spectroscopy and functional optical imaging of brain activity. Tamura M, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):737–42

Cerebral oxygenation and haemodynamics in the foetus and newborn infant. Wyatt JS. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):697–700 (30 ref.)

Central inhibitory effect of adenosine deaminase on carotid blood flow increase at high pressure. Guerrero F, et al. **Physiol Behav** 1996 Feb;59(2):283–6

Memory for object features versus memory for object location: a positron-emission tomography study of encoding and retrieval processes. Owen AM, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9212–7

Serotonin in the regulation of brain microcirculation. Cohen Z, et al. **Prog Neurobiol** 1996 Nov;50(4):335–62 (160 ref.)

Quantitative regional cerebral flow measured by Tc-99M HMPAO SPECT in mood disorder. Iidaka T, et al. **Psychiatry Res** 1997 Feb 7;68(2–3):143–54

Intracranial and extracranial blood flow during acute anxiety. Mathew RJ, et al. **Psychiatry Res** 1997 May 16;74(2):93–107

Cerebral perfusion in early and late opiate withdrawal: a technetium-99m-HMPAO SPECT study. Rose JS, et al. **Psychiatry Res** 1996 May 31;67(1):39–47

Longitudinal study of cerebral blood flow in Alzheimer's disease using single photon emission tomography. Sachdev P, et al. **Psychiatry Res** 1997 Feb 7;68(2–3):133–41

Late effects of X irradiation on regulation of cerebral blood flow after whole-brain exposure in rats. Keyeux A, et al. **Radiat Res** 1997 May;147(5):621–30

In vivo regional cerebral blood volume: quantitative assessment with 3D T1-weighted pre- and postcontrast MR imaging. Kuppusamy K, et al. **Radiology** 1996 Oct; 201(1):106–12

Small vessels in the human brain: MR venography with deoxyhemoglobin as an intrinsic contrast agent. Reichenbach JR, et al. **Radiology** 1997 Jul;204(1):272–7

The cerebral 'no-reflow' phenomenon after cardiac arrest in rats--influence of low-flow reperfusion. Böttiger BW, et al. **Resuscitation** 1997 Feb;34(1):79–87

Effect of an endothelin-1 antagonist, BQ-485, on cerebral oxygen metabolism after complete global cerebral ischemia in dogs. Takasu A, et al. **Resuscitation** 1997 Feb;34(1):65–9

Human brain endothelial cells and astrocytes produce IL-1 beta but not IL-10. Corsini E, et al. **Scand J Immunol** 1996 Nov;44(5):506–11

Cerebral perfusion correlates of negative symptomatology and parkinsonism in a sample of treatment-refractory schizophrenics: an exploratory 99mTc-HMPAO SPET study. Molina Rodríguez V, et al. **Schizophr Res** 1997 May 3;25(1):11–20

Regulation of cerebrovascular prostaglandin E2 (PGE2) and PGF2 alpha receptors and their functions during development. Chemtob S, et al. **Semin Perinatol** 1996 Jun; 20(3):164–72

Retrograde cerebral perfusion (RCP) in aortic arch surgery: efficacy and possible mechanisms of brain protection. Bavaria JE, et al. **Semin Thorac Cardiovasc Surg** 1997 Jul; 9(3):222–32 (55 ref.)

Reperfusion of the brain after global ischemia: hemodynamic disturbances. Hossmann KA. **Shock** 1997 Aug;8(2):95–101; discussion 102–3 (129 ref.)

Cerebral blood flow velocities and trigeminal ganglion stimulation. A transcranial Doppler study. Visocchi M, et al. **Stereotact Funct Neurosurg** 1996;66(4):184–92

Cerebral microembolism and early recurrent cerebral or retinal ischemic events. Babikian VL, et al. **Stroke** 1997 Jul;28(7):1314–8

Global ischemia impairs ATP-sensitive K+ channel function in cerebral arterioles in piglets. Bari F, et al. **Stroke** 1996 Oct;27(10):1874–80; discussion 1880–1

Impaired calcium regulation in subcortical vascular encephalopathy. Eckert A, et al. **Stroke** 1997 Jul; 28(7):1351–6

A putative role for platelet-derived growth factor in angiogenesis and neuroprotection after ischemic stroke in

humans. Krupinski J, et al. **Stroke** 1997 Mar;28(3):564–73

CP–0597, a selective bradykinin B2 receptor antagonist, inhibits brain injury in a rat model of reversible middle cerebral artery occlusion. Relton JK, et al. **Stroke** 1997 Jul;28(7):1430–6

Regulation of brain capillary endothelial thrombomodulin mRNA expression. Tran ND, et al. **Stroke** 1996 Dec; 27(12):2304–10; discussion 2310–1

Cerebral oxygen metabolism measured by near–infrared laser spectroscopy during laparoscopic cholecystectomy with CO2 insufflation. Kitajima T, et al.
Surg Laparosc Endosc 1996 Jun;6(3):210–2

Long–term outcome after surgical excision of parenchymal arteriovenous malformations in patients over 60 years of age. Lanzino G, et al. **Surg Neurol** 1997 Mar;47(3):258–63; discussion 263–4

Tissue and cellular oxygenation state measurement during cardiac surgery [letter; comment] Wollert HG, et al.
Thorac Cardiovasc Surg 1996 Jun;44(3):158–60. Comment on: Thorac Cardiovasc Surg 1995 Oct;43(5):260–4.

Effect of thyrotropin–releasing hormone (TRH) on cerebral blood flow in spinocerebellar degeneration and cerebrovascular disease. Izumi Y, et al.
Tokai J Exp Clin Med 1995 Dec;20(4–6):203–8

Methylmercury efflux from brain capillary endothelial cells is modulated by intracellular glutathione but not ATP. Kerper LE, et al. **Toxicol Appl Pharmacol** 1996 Dec; 141(2):526–31

Lead uptake in brain capillary endothelial cells: activation by calcium store depletion. Kerper LE, et al.
Toxicol Appl Pharmacol 1997 Sep;146(1):127–33

Brain capillary lesions produced by cocaine in rats. Barroso–Moguel R, et al. **Toxicol Lett** 1997 Jun 16; 92(1):9–14

Is there a fetal brain–sparing effect in pre–eclampsia? [letter; comment] Beke A, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):429. Comment on: Ultrasound Obstet Gynecol 1996 Nov;8(5):329–32.

Transvaginal power Doppler angiography of the fetal brain. Pooh RK, et al. **Ultrasound Obstet Gynecol** 1996 Dec; 8(6):417–21

Ultrastructural and morphometric investigation of human brain capillaries in normal and peritumoral tissues. Bertossi M, et al. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):41–9

Reversibility in blood–brain barrier, microcirculation, and histology in rat brain after decompression. Nohara A, et al. **Undersea Hyperb Med** 1997;24(1):15–21

Continuous monitoring of brain tissue PO2: a new tool to minimize the risk of ischemia caused by hyperventilation therapy. Dings J, et al. **Zentralbl Neurochir** 1996; 57(4):177–83

Vasomotion, regional cerebral blood flow and intracranial pressure after induced subarachnoid haemorrhage in rats. Ebel H, et al. **Zentralbl Neurochir** 1996;57(3):150–5

[MRI and cognition] Le Bihan D. **Encephale** 1997 Jun;23 Spec No 3:5–8 (36 ref.) (Eng. Abstr.) **(Fre)**

[A new probe holding device for continuous bilateral measurements of blood flow velocity in basal brain vessels] Gehring H, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1997 Jun; 32(6):355–9 (Eng. Abstr.) **(Ger)**

[Jugular bulb oximetry––a new neuro–anesthesiologic standard monitoring device? Contra] Jantzen JP.
Anasthesiol Intensivmed Notfallmed Schmerzther 1997 Jul; 32(7):453–4 **(Ger)**

[Effects of different kinds of ventilation and positioning measures on blood flow velocity in the middle cerebral artery] Mühling J, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Oct; 31(8):474–80 (Eng. Abstr.) **(Ger)**

[Continuous fiberoptic monitoring of oxygen saturation in cerebral veins in severe craniocerebral trauma––experiences and results] Murı R, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Feb; 31(1):29–36 (Eng. Abstr.) **(Ger)**

[Validity of fiber optic cerebral vein oximetry during extracorporeal circulation] von Knobelsdorff G, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Nov; 31(9):563–7 (Eng. Abstr.) **(Ger)**

[Jugular bulb oximetry––a new neuro–anesthesiologic standard monitoring device? Pro] Werner C.
Anasthesiol Intensivmed Notfallmed Schmerzther 1997 Jul; 32(7):455–7 **(Ger)**

[Transcranial Doppler ultrasound––robotics–controlled transducers for quantifying the effect of acupuncture] Litscher G, et al. **Biomed Tech (Berl)** 1997 May; 42(5):116–22 (Eng. Abstr.) **(Ger)**

[Intravascular lymphomatosis of the nervous system––case report and review of the literature] Heesen C, et al.
Fortschr Neurol Psychiatr 1996 Jun;64(6):234–41 (104 ref.) (Eng. Abstr.) **(Ger)**

[Examination of psychological functions by functional imaging with positron emission tomography and magnetic resonance imaging] Schneider F, et al. **Nervenarzt** 1996 Sep;67(9):721–9 (60 ref.) (Eng. Abstr.) **(Ger)**

[Age dependence of cerebral Tc–99m–ECD distribution between preschool and school–age children and adults] Barthel H, et al. **Nuklearmedizin** 1997 Jun;36(4):110–6 (Eng. Abstr.) **(Ger)**

[CT–angiography in planning stereotaxic biopsies] Bartylla K, et al. **Radiologe** 1996 Nov;36(11):867–71 (Eng. Abstr.) **(Ger)**

[Methodological approaches to quantitative evaluation of microcirculation in tissues with dynamic magnetic resonance tomography] Brix G, et al. **Radiologe** 1997 Jun; 37(6):470–80 (47 ref.) (Eng. Abstr.) **(Ger)**

[CT subtraction angiography (CTSA). Results with an automated "elastic" subtraction algorithm] Luboldt W, et al. **Radiologe** 1997 Jan;37(1):89–93 (Eng. Abstr.) **(Ger)**

[Determination of blood circulation time for optimizing contrast medium administration in CT angiography] Puskás Z, et al. **Radiologe** 1996 Sep;36(9):750–7 (Eng. Abstr.) **(Ger)**

[Perfusion studies with paramagnetic contrast media and rapid pulse sequences in cerebrovascular diseases and brain tumors] Schuierer G, et al. **Radiologe** 1996 Feb;36(2):107–14 (Eng. Abstr.) **(Ger)**

[Color–coded duplex ultrasonography of extracranial vascular lesions] Schuknecht BF, et al. **Radiologe** 1996 Jan; 36(1):1–11 (78 ref.) (Eng. Abstr.) **(Ger)**

[Experimental validation of a semi–quantitative single–layer procedure for proton–spin tomographic imaging of regional cerebral perfusion] Böck JC, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Apr;166(4):335–41 (Eng. Abstr.) **(Ger)**

[Changes in regional and local brain circulation in patients with subarachnoid hemorrhage due to ruptured aneurysm] Nemati MN, et al. **Schweiz Arch Neurol Psychiatr** 1995; 146(6):256–63 (Eng. Abstr.) **(Ger)**

[Possible errors caused by artefacts in the Doppler color image] Arning C. **Ultraschall Med** 1997 Jun;18(3):105–9 (Eng. Abstr.) **(Ger)**

[3–D reconstruction of intracranial vessels using a color Doppler energy method––initial experiences] Berger G, et al. **Ultraschall Med** 1996 Dec;17(6):277–80 (Eng. Abstr.) **(Ger)**

[Ultrasound contrast media for neurovascular applications] Gahn G, et al. **Ultraschall Med** 1997 Jun;18(3):101–4 (13 ref.) (Eng. Abstr.) **(Ger)**

[Does multi–vessel disease of brain supplying arteries modify the procedure in carotid operations?] Kogel H.
Zentralbl Chir 1996;121(12):1049–53 (34 ref.) (Eng. Abstr.) **(Ger)**

[Transcranial Doppler ultrasound as monitoring during carotid operation] Tamaschke C, et al. **Zentralbl Chir** 1996; 121(12):1036–40 (Eng. Abstr.) **(Ger)**

[Prognostic value of Doppler flow measurement of the middle cerebral artery for morbidity of premature infants with null or negative flow in umbilical arteries] Ulrich S, et al. **Zentralbl Gynakol** 1996;118(11):605–9 (Eng. Abstr.) **(Ger)**

[Monitoring cerebral perfusion pressure] Jantzen JP.
Zentralbl Neurochir 1997;58(1):32–5 (31 ref.) **(Ger)**

[Value of transcranial Doppler ultrasound in inereased intracranial pressure] Schregel W. **Zentralbl Neurochir** 1997;58(1):43–6 (28 ref.) **(Ger)**

[Cerebrovascular effects of analgosedation] Werner C, et al.
Zentralbl Neurochir 1997;58(2):90–3 (22 ref.) **(Ger)**

[Evaluation of remote effect to supratentorial areas in cerebellar infarction: a semiquantitative analysis using 99mTc–HM–PAO SPECT] Hirose Y, et al. **Kaku Igaku** 1996 Jul;33(7):705–10 (Eng. Abstr.) **(Jpn)**

[Noninvasive regional cerebral blood flow measurements at pre– and post–acetazolamide test using 99mTc–ECD] Matsuda H, et al. **Kaku Igaku** 1996 Jul;33(7):759–66 (Eng. Abstr.) **(Jpn)**

[Validation study in quantitative measurement of regional cerebral blood flow using N–isopropyl–p–[123I]iodoamphetamine (123I–IMP) and SPECT] Ohkubo M, et al. **Kaku Igaku** 1996 Jun; 33(6):647–54 (Eng. Abstr.) **(Jpn)**

[Assessment of regional microcirculatory changes by EPI perfusion studies in patients with multiple lacunar infarction] Ishihara M, et al. **Nippon Rinsho** 1997 Jul; 55(7):1736–41 (Eng. Abstr.) **(Jpn)**

[Study on Mato cells (Mato's FGP cells) under various conditions] Mato M, et al. **Nippon Rinsho** 1997 Jul; 55(7):1845–52 (10 ref.) (Eng. Abstr.) **(Jpn)**

[The changes of regional cerebral blood flow and oxygen metabolism following ventricular puncture] Nakajima S, et al. **No Shinkei Geka** 1997 Mar;25(3):205–12 (Eng. Abstr.) **(Jpn)**

[Functional mapping of the brain in a patient before neurological surgery by superposition of activation SPECT and MR images] Otsuki H, et al. **No Shinkei Geka** 1996 Jul;24(7):598–603 (26 ref.) **(Jpn)**

[A quantitative study of regional cerebral blood flow in childhood using 123I–IMP–SPECT: with emphasis on age–related changes] Kobayashi A, et al.
No To Hattatsu 1996 Nov;28(6):501–7 (Eng. Abstr.) **(Jpn)**

[Systemic vascular change associated with moyamoya–like cerebrovascular disease and microvascular coronary artery disease] Tokunaga Y, et al. **Rinsho Shinkeigaku** 1996 Feb; 36(2):318–22 (Eng. Abstr.) **(Jpn)**

[Ultrasonographic study of cerebral blood flow in hemorrhage strokes] Stroińska–Kuś B, et al.
Neurol Neurochir Pol 1996 Nov–Dec;30(6):907–15 (Eng. Abstr.) **(Pol)**

[The assessment of regional cerebral blood flow using HMPAO–SPECT during depressive episode and in remission] Jaracz J, et al. **Psychiatr Pol** 1996 Sep–Oct; 30(5):757–69 (Eng. Abstr.) **(Pol)**

[Differences in blood supply of the brain and liver during acute blood loss in rats with different resistance to circulatory hypoxia] Kovalenko NIa, et al.
Biull Eksp Biol Med 1997 Mar;123(3):253–7 **(Rus)**

[Reactivity of the basilar artery in the brain of Krushinskí–Molodkina line rats one day after an audiogenic epileptiform seizure] Storozhevykh TP, et al.
Biull Eksp Biol Med 1996 Feb;121(2):131–4 **(Rus)**

[Effect of carnosine on cerebral blood flow and amplitude of EEG theta–rhythm in cerebral ischemia in rats with varied motor activities] Kukleĭ ML, et al.
Dokl Akad Nauk 1997 Jan;352(3):416–9 **(Rus)**

[Comparative rheoencephalographic and convective radiation encephalic thermometric studies] Vaĭsfel'd DN, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):77–80 (Eng. Abstr.) **(Rus)**

[The diagnosis of microcirculatory–rheological disorders and their correction in patients with the initial manifestations of insufficiency of the cerebral blood supply] Vesel'skiĭ ISh, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):87–9 (Eng. Abstr.) **(Rus)**

[Effect of research conditions on succinate oxidation in brain mitochondria in circulatory hypoxia] Poborskiĭ AN.
Patol Fiziol Eksp Ter 1997 Jan–Mar;(1):10–2 (Eng. Abstr.) **(Rus)**

[Cerebral blood flow and cerebrovascular reactivity in the early postnatal ontogeny of rats] Vaĭnshteĭn GB, et al.
Zh Evol Biokhim Fiziol 1996 Mar–Apr;32(2):160–6 (Eng. Abstr.) **(Rus)**

[The antioxidative activity of homogenates and lipids obtained from intact and ischemic organs in rats] Paranich AV, et al. **Fiziol Zh** 1996;42(1–2):31–5 (Eng. Abstr.) **(Ukr)**

CHEMISTRY see BRAIN CHEMISTRY

CYTOLOGY

A systematic histochemical investigation in mammals of the dense glycocalyx glycosylations common to all cells bordering the interstitial fluid compartment of the brain. Debbage PL. **Acta Histochem** 1996 Jan;98(1):9–28

Immortalization of cells from brains derived from a strain (MSM/MSfB6C3F1) of wild mouse. Yuasa T, et al.
Acta Med Okayama 1996 Dec;50(6):319–24

Glial expression of cytokines in the brains of cerebrovascular disease patients. Tomimoto H, et al.
Acta Neuropathol (Berl) 1996 Sep;92(3):281–7

PAF–synthesizing enzymes in neural cells during differentiation and in gerbil brain during ischemia. Francescangeli E, et al. **Adv Exp Med Biol** 1996;416:21–7 (48 ref.)

Biphasic effect of taurine on excitatory amino acid–induced neurotoxicity. Tang XW, et al. **Adv Exp Med Biol** 1996; 403:499–505

A critical review of the current status and possible developments in brain transplantation. Rehncrona S.
Adv Tech Stand Neurosurg 1997;23:3–46 (133 ref.)

Volume regulation in rat brain glial cells: lack of a substantial contribution of free amino acids. Mountian I, et al.
Am J Physiol 1996 May;270(5 Pt 1):C1319–25

Immunohistochemical localization of the proteins associated with brain N–type calcium channels. Ishikawa H, et al.
Ann N Y Acad Sci 1993 Dec 20;707:376–8

VIP and PACAP receptor–mediated actions on cell proliferation and survival. Waschek JA.
Ann N Y Acad Sci 1996 Dec 26;805:290–300; discussion 300–1 (71 ref.)

Neurons with perineuronal sulfated proteoglycans in the mouse brain and spinal cord: their distribution and reactions to lectin Vicia villosa agglutinin and Golgi's silver nitrate. Murakami T, et al. **Arch Histol Cytol** 1996 Aug; 59(3):219–31

Identification and distribution of neuroendocrine gonadotropin–releasing hormone neurons in the ewe. Jansen HT, et al. **Biol Reprod** 1997 Mar;56(3):655–62

Identification of 5–hydroxytryptamine receptors positively coupled to adenylyl cyclase in rat cultured astrocytes. Hirst WD, et al. **Br J Pharmacol** 1997 Feb;120(3):509–15

Regulation of oligodendrocyte development and CNS myelination by growth factors: prospects for therapy of demyelinating disease. McMorris FA, et al.
Brain Pathol 1996 Jul;6(3):313–29 (170 ref.)

Cerebral amyloid beta protein deposits and other Alzheimer lesions in non–demented elderly east Africans [see comments] Ogeng'o JA, et al. **Brain Pathol** 1996 Apr; 6(2):101–7. Comment in: Brain Pathol 1996 Apr;6(2):107–8.

Evidence for receptors for hyaluronan in discrete nerve cell populations of the brain. Fuxe K, et al. **Brain Res** 1996 Oct 14;736(1–2):329–37

Immunoreactivity of presenilin–1 in human, rat and mouse brain. Kim KS, et al. **Brain Res** 1997 May 16;757(1):159–63

DL–fenfluramine increases the 5–HT synthesis rate in the terminals while decreasing it in the cell bodies of the rat brain. Mück–Seler D, et al. **Brain Res** 1996 Oct 21; 737(1–2):45–50

Effects of IL–1 beta on neuronal activities in the dorsal motor nucleus of the vagus in rat brain slices. Mo ZL, et al.
Brain Res Bull 1996;41(4):249–55

Apoptosis is induced by choline deficiency in fetal brain and in PC12 cells. Holmes–McNary MQ, et al.
Brain Res Dev Brain Res 1997 Jul 18;101(1–2):9–16

Lineage specification of olfactory neural precursor cells depends on continuous cell interactions. Magrassi L, et al.

Brain Res Dev Brain Res 1996 Oct 23;96(1–2):11–27

Genotype–dependent sex differentiation of dopaminergic neurons in primary cultures of embryonic mouse brain. Sibug R, et al. **Brain Res Dev Brain Res** 1996 May 31; 93(1–2):136–42

Distribution of D4 dopamine receptor in rat brain with sequence–specific antibodies. Defagot MC, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):1–12

Post–thaw viability and functionality of cryopreserved rat fetal brain cells cocultured with Sertoli cells [see comments] Cameron DF, et al. **Cell Transplant** 1997 Mar–Apr;6(2):185–9. Comment in: Cell Transplant 1997 Mar–Apr;6(2):191–3.

Ischemia–induced neuronal apoptosis. Choi DW. **Curr Opin Neurobiol** 1996 Oct;6(5):667–72 (55 ref.)

Flow cytometric analysis of glucose transport by rat brain cells. Aller CB, et al. **Cytometry** 1997 Mar 1;27(3):262–8

Evidence for the existence of at least two timing mechanisms that contribute to oligodendrocyte generation in vitro. Ibarrola N, et al. **Dev Biol** 1996 Nov 25;180(1):1–21

Inhibition of fatty acid beta–oxidation in rat brain cultured astrocytes exposed to the neurotoxin 3–nitropropionic acid. Esfandiari A, et al. **Dev Neurosci** 1997;19(4):312–20

Fate determination and migration of progenitors in the postnatal mammalian CNS. Goldman JE, et al. **Dev Neurosci** 1997;19(1):42–8 (68 ref.)

Progressive remodeling of the oligodendrocyte process arbor during myelinogenesis. Hardy RJ, et al. **Dev Neurosci** 1996; 18(4):243–54

Persistence of multipotential progenitors in the juvenile rat subventricular zone. Young GM, et al. **Dev Neurosci** 1996; 18(4):255–65

Rab3 proteins and SNAP–25, essential components of the exocytosis machinery in conventional synapses, are absent from ribbon synapses of the mouse retina. Grabs D, et al. **Eur J Neurosci** 1996 Jan;8(1):162–8

192 IgG–saporin–induced loss of cholinergic neurons in the septum abolishes cholinergic sprouting after unilateral entorhinal lesion in the rat. Naumann T, et al. **Eur J Neurosci** 1997 Jun;9(6):1304–13

Role of thyroid hormone in the morphological differentiation and maturation of astrocytes: temporal correlation with synthesis and organization of actin. Paul S, et al. **Eur J Neurosci** 1996 Nov;8(11):2361–70

The effects of disorientation on visual landmark control of head direction cell orientation. Dudchenko PA, et al. **Exp Brain Res** 1997 Jun;115(2):375–80

The Ras Guanine nucleotide Exchange Factor CDC25Mm is present at the synaptic junction. Sturani E, et al. **Exp Cell Res** 1997 Aug 25;235(1):117–23

Differentiation of neurons populations based on fractal dimension. Skrzat J, et al. **Folia Morphol (Warsz)** 1996; 55(4):444–6

Gene transfer to the central nervous system by transplantation of cerebral endothelial cells. Quinonéro J, et al. **Gene Ther** 1997 Feb;4(2):111–9

Oligodendrocyte maturation and progenitor cell proliferation are independently regulated by thyroid hormone. Baas D, et al. **Glia** 1997 Apr;19(4):324–32

Immunocytochemical and biochemical characterization of glial phenotypes in normal and immortalized cultures derived from 3–day–old chick embryo encephalon. Kentroti S, et al. **Glia** 1996 Oct;18(2):79–91

Removal of cobalt–labeled neurons and nerve fibers by microglia from the frog's brain and spinal cord. Lazar G, et al. **Glia** 1996 Feb;16(2):101–7

Analysis of motile oligodendrocyte precursor cells in vitro and in brain slices. Schmidt C, et al. **Glia** 1997 Aug; 20(4):284–98

Identification of lectin binding sites in the rat brain. Zambenedetti P, et al. **Glycoconj J** 1996 Jun;13(3):341–6

Limbic system–associated membrane protein (LAMP) in primate amygdala and hippocampus. Côté PY, et al. **Hippocampus** 1996;6(5):483–94

CD15–containing glycoconjugates in the central nervous system. Gocht A, et al. **Histol Histopathol** 1996 Oct; 11(4):1007–28 (133 ref.)

Evidence for sexual differentiation of glia in rat brain. Mong JA, et al. **Horm Behav** 1996 Dec;30(4):553–62

Chick embryo brain cultures enriched for neurons or astroglial cells support the replication of influenza A, B, and C viruses [letter] Parker MS, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun;33(6):416–21

Bovine brain microvascular endothelial cells transfected with SV40–large T antigen: development of an immortalized cell line to study pathophysiology of CNS disease [letter] Stins MF, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr; 33(4):243–7

Neurotrophic effects of transferrin on embryonic chick brain and neural retinal cell cultures. Bruinink A, et al. **Int J Dev Neurosci** 1996 Oct;14(6):785–95

Depolarization of rat brain synaptosomes increases phosphorylation of voltage–sensitive sodium channels. Kondratyuk T, et al. **J Biol Chem** 1997 Jul 4; 272(27):16978–83

Differentiation and death of premyelinating oligodendrocytes in developing rodent brain. Trapp BD, et al. **J Cell Biol** 1997 Apr 21;137(2):459–68

Evidence for the existence of galanin receptors on cultured astrocytes of rat CNS: colocalization with cholinergic receptors. Hösli E, et al. **J Chem Neuroanat** 1997 Jul; 13(2):95–103

Localization of two cholinergic markers, choline acetyltransferase and vesicular acetylcholine transporter in the central nervous system of the rat: in situ hybridization histochemistry and immunohistochemistry. Ichikawa T, et al. **J Chem Neuroanat** 1997 Jun;13(1):23–39

gamma–Aminobutyric acid receptor distribution in the mushroom bodies of a fly (Calliphora erythrocephala): a functional subdivision of Kenyon cells? Brotz TM, et al. **J Comp Neurol** 1997 Jun 23;383(1):42–8

Distribution of transferrin binding protein immunoreactivity in the chicken central and peripheral nervous systems. Cho SS, et al. **J Comp Neurol** 1997 Jun 2;382(2):260–71

Sympathetic axons invade the brains of mice overexpressing nerve growth factor. Kawaja MD, et al. **J Comp Neurol** 1997 Jun 23;383(1):60–72

Distribution of neuronal apoptosis inhibitory protein–like immunoreactivity in the rat central nervous system. Xu DG, et al. **J Comp Neurol** 1997 Jun 2;382(2):247–59

Glial fibrillary acidic protein and vimentin in radial glia of Ambystoma mexicanum and Triturus carnifex: an immunocytochemical study. Lazzari M, et al. **J Hirnforsch** 1997;38(2):187–94

A common morphological response of astrocytes to various injuries: "dark" astrocytes. A light and electron microscopic analysis. Tóth Z, et al. **J Hirnforsch** 1997;38(2):173–86

Nonspecific esterase activity in astrocytes of the goldfish brain. Pepperell C, et al. **J Histochem Cytochem** 1996 Oct; 44(10):1195–203

Automated recognition and mapping of immunolabelled neurons in the developing brain. Hibbard LS, et al. **J Microsc** 1996 Sep;183 (Pt 3):241–56

Developmental and genetic regulation of programmed neuronal death. Weller M, et al. **J Neural Transm Suppl** 1997;50:115–23 (29 ref.)

Sexually dimorphic neuron addition to an avian song–control region is not accounted for by sex differences in cell death. Burek MJ, et al. **J Neurobiol** 1997 Jul;33(1):61–71

Ependymal/subependymal zone cells of postnatal and adult songbird brain generate both neurons and nonneuronal siblings in vitro and in vivo. Goldman SA, et al. **J Neurobiol** 1996 Aug;30(4):505–20

Neuronal precursors of the adult rat subependymal zone persist into senescence, with no decline in spatial extent or response to BDNF. Goldman SA, et al. **J Neurobiol** 1997 Jun 5;32(6):554–66

Sex difference among nonneuronal cells precedes sexually dimorphic neuron growth and survival in an avian song control nucleus. Nordeen EJ, et al. **J Neurobiol** 1996 Aug; 30(4):531–42

Characterization of phospholipase A2 activity enriched in the nerve growth cone. Nègre–Aminou P, et al. **J Neurochem** 1996 Dec;67(6):2599–608

Extracellular matrix organization in various regions of rat brain grey matter. Brückner G, et al. **J Neurocytol** 1996 May;25(5):333–46

Comparative evaluation of synaptophysin–based methods for quantification of synapses. Calhoun ME, et al. **J Neurocytol** 1996 Dec;25(12):821–8

The regional distribution of neuronal glycogen in the opossum brain, with special reference to hypothalamic systems. Cavalcante LA, et al. **J Neurocytol** 1996 Aug; 25(8):455–63

Topographic variations in rat brain oligodendrocyte morphology elucidated by injection of Lucifer Yellow in fixed tissue slices. Weruaga–Prieto E, et al. **J Neurocytol** 1996 Jan;25(1):19–31

Factors controlling T–cell migration across rat cerebral endothelium in vitro. Pryce G, et al. **J Neuroimmunol** 1997 May;75(1–2):84–94

Quantifying apoptosis in banked human brains using flow cytometry. Olano JP, et al. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1164–72

Enhancement by lanthanide of general anesthetic–induced GABAA–receptor current in rat septal cholinergic neurons in culture. Kumamoto E, et al. **J Neurophysiol** 1996 Jun; 75(6):2294–9

A reliable method for Golgi staining of retina and brain slices. Angulo A, et al. **J Neurosci Methods** 1996 May;66(1):55–9

Transfection of rat brain cells by electroporation. Li H, et al. **J Neurosci Methods** 1997 Jul 18;75(1):29–32

Voltage–clamp analysis of neurons within deep layers of the brain. Richter DW, et al. **J Neurosci Methods** 1996 Aug; 67(2):121–3

In vitro differentiation of neural progenitor cells from prenatal rat brain: common cell surface glycoprotein on three glial cell subsets. Blass–Kampmann S, et al. **J Neurosci Res** 1997 Apr 15;48(2):95–111

Obtention and characterization of primary astrocyte and microglial cultures from adult monkey brains. Guillemin G, et al. **J Neurosci Res** 1997 Sep 1;49(5):576–91

Differential expression in glial cells derived from chick embryo cerebral hemispheres at an advanced stage of development. Kentroti S, et al. **J Neurosci Res** 1997 Feb 1;47(3):322–31

Myelination and remyelination of aggregate rat brain cell cultures enriched with macrophages. Loughlin AJ, et al. **J Neurosci Res** 1997 Feb 15;47(4):384–92

Rat oligodendrocytes and astrocytes preferentially express fibroblast growth factor receptor–2 and –3 mRNAs. Miyake A, et al. **J Neurosci Res** 1996 Sep 1;45(5):534–41

Normal and reactive NG2+ glial cells are distinct from resting and activated microglia. Nishiyama A, et al. **J Neurosci Res** 1997 May 15;48(4):299–312

OLN–93: a new permanent oligodendroglia cell line derived from primary rat brain glial cultures. Richter–Landsberg C, et al. **J Neurosci Res** 1996 Jul 15;45(2):161–73

Phenotypic and functional characterization of CD8+ T lymphocytes from the central nervous system of rats with coronavirus JHM induced demyelinating encephalomyelitis [see comments] Hein A, et al. **J Neurovirol** 1995 Dec; 1(5–6):340–8. Comment in: J Neurovirol 1995 Dec;1(5–6):323–5.

Neurocytotoxity of quinolinic acid in human brain cultures [see comments] Kerr SJ, et al. **J Neurovirol** 1995 Dec; 1(5–6):375–80. Comment in: J Neurovirol 1995 Dec;1(5–6):328–9.

Human cytomegalovirus induces IL–6 and TNF alpha from macrophages and microglial cells: possible role in neurotoxicity. Pulliam L, et al. **J Neurovirol** 1995 Jun; 1(2):219–27

Depletion of glutathione from brain cells in hyponatremia. Clark EC, et al. **Kidney Int** 1996 Feb;49(2):470–6

Age–dependent morphological changes in dBcAMP–treated astrocytes. Gicovate DG, et al. **Medicina (B Aires)** 1996; 56(4):389–92

Volume regulation in brain cells: cellular and molecular mechanisms. Pasantes–Morales H. **Metab Brain Dis** 1996 Sep;11(3):187–204 (91 ref.)

The preparation and use of brain slices and dissociated neurons for patch–clamp studies of neurotransmitter action. Larkman PM, et al. **Methods Mol Biol** 1997;72:23–31

Preparation of brain slices. Wang T, et al. **Methods Mol Biol** 1997;72:1–14

Dodecylglycerol provides partial protection against glutamate toxicity in neuronal cultures derived from different regions of embryonic rat brain. Dave JR, et al. **Mol Chem Neuropathol** 1997 Jan–Feb;30(1–2):1–13

Microglial cerebrospinal fluid antibodies. Significance for Alzheimer disease. McRae A, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):89–95

Bipotent progenitor cell lines from the human CNS. Sah DW, et al. **Nat Biotechnol** 1997 Jun;15(6):574–80

New polyclonal antiserum against microtubule–associated protein 2 (MAP2); preparation and preliminary characterization. Jancsik V, et al. **Neurobiology (Bp)** 1996; 4(3):241–5

The role of serum amyloid P (SAP) component in Alzheimer's disease. Urbányi Z. **Neurobiology (Bp)** 1996; 4(3):283–4

Peripheral administration of lipopolysaccharide induces activation of microglial cells in rat brain. Buttini M, et al. **Neurochem Int** 1996 Jul;29(1):25–35

Identifying monoaminergic, GABAergic, and cholinergic characteristics in immortalized neuronal cell lines. Gallyas F Jr, et al. **Neurochem Res** 1997 May;22(5):569–75

mu Opiate receptor immunoreactivity in rat central nervous system. Moriwaki A, et al. **Neurochem Res** 1996 Nov; 21(11):1315–31

The spin trap reagent PBN attenuates degeneration of 5–HT neurones in rat brain induced by p–chloroamphetamine but not fenfluramine. Murray TK, et al. **Neuropharmacology** 1996;35(11):1615–20

Distribution of beta–amyloid in the canine brain. Hou Y, et al. **Neuroreport** 1997 Mar 3;8(4):1009–12

Conversion of biocytin labelled cells and structures for the confocal laser–scanning method. Hilbig H, et al. **Neurosci Lett** 1997 May 23;227(3):209–11

Expression of 9–O–acetylated gangliosides is correlated with tangential cell migration in the rat brain. Mendez–Otero R, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):97–100

A technique for culturing brain nuclei from postnatal rats. Nakajima Y, et al. **Neurosci Res** 1996 Oct;26(2):195–203

Putative neuroendocrine cells in the Aplysia cerebral ganglion. Soinila S, et al. **Neurosci Res** 1996 Jul; 25(3):209–16

In vitro propagation and inducible differentiation of multipotential progenitor cells from human fetal brain. Chalmers–Redman RM, et al. **Neuroscience** 1997 Feb; 76(4):1121–8

Differential distribution of calcium–binding proteins in the dorsal column nuclei of rats: a combined immunohistochemical and retrograde tract tracing study. Magnusson A, et al. **Neuroscience** 1996 Jul;73(2):497–508

Immunohistochemical mapping of brain triiodothyronine reveals prominent localization in central noradrenergic systems. Rozanov CB, et al. **Neuroscience** 1996 Oct; 74(3):897–915

Ion homeostasis in brain cells: differences in intracellular ion responses to energy limitation between cultured neurons and glial cells. Silver IA, et al. **Neuroscience** 1997 May; 78(2):589–601

Papers from a National Academy of Sciences Colloquium on Memory: Recording Experience in Cells and Circuits. Irvine, California, February 17–20, 1996. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13435–551

Endothelial cells of the brain and other organ systems: some similarities and differences. Joó F. **Prog Neurobiol** 1996 Feb;48(3):255–73 (210 ref.)

Retrograde labeling of rat dorsolateral septal nucleus neurons following intraseptal injections of WGA–HRP. Phelan KD, et al. **Synapse** 1996 Mar;22(3):261–8

How should brain nuclei be delineated? They don't need to be! [letter; comment] Ball GF, et al. **Trends Neurosci** 1997 Aug;20(8):344; discussion 345–6. Comment on: Trends

Neurosci 1997 Feb;20(2):58–62.
How should brain nuclei be delineated? They don't need to be! [letter; comment] Bottjer SW, et al. **Trends Neurosci** 1997 Aug;20(8):344–5; discussion 345–6. Comment on: Trends Neurosci 1997 Feb;20(2):58–62.
How should brain nuclei be delineated? They don't need to be! [letter; comment] Brenowitz EA, et al. **Trends Neurosci** 1997 Aug;20(8):345; discussion 345–6. Comment on: Trends Neurosci 1997 Feb;20(2):58–62.
Do multilineage potential neural stem cells really exist in the brain of adult mammals [letter; comment] Korr H. **Trends Neurosci** 1997 May;20(5):203–4. Comment on: Trends Neurosci 1996 Sep;19(9):387–93.
How should brain nuclei be delineated? They don't need to be! [letter; comment] Vogels O. **Trends Neurosci** 1997 Aug; 20(8):343–4; discussion 345–6. Comment on: Trends Neurosci 1997 Feb;20(2):58–62.
Formation and persistence of N7- and O6-methyl-guanine in DNA of chick embryo brain cells in ovo following administration of N-nitroso-N-methylurea. Schleifer S, et al. **Zentralbl Veterinarmed A** 1996 Dec;43(10):589–98
[Neuroprotection by ketamine at the cellular level] Pfenninger E, et al. **Anaesthesist** 1997 Mar;46 Suppl 1:S47–54 (64 ref.) (Eng. Abstr.) **(Ger)**
[Neurotransmitters and ontogenesis of the central nervous system in the human] Retz W, et al. **Z Kinder Jugenpsychiatr** 1996 Mar;24(1):34–43 (60 ref.) **(Ger)**
[Neuronal circuit formation of serotonin neuron system] Ueda S. **Kaibogaku Zasshi** 1997 Jun;72(3):187–90 (24 ref.) **(Jpn)**
[Opioid peptides increase the survival of human fetal nerve tissue after cryopreservation in a culture] Anikin AIu, et al. **Biull Eksp Biol Med** 1994 Apr;117(4):408–11 **(Rus)**
[Transplantation of insect embryonal nerve cells into the brain of amphibia and mammals] Savel'ev SV, et al. **Biull Eksp Biol Med** 1994 Apr;117(4):364–8 **(Rus)**

DRUG EFFECTS

Neurotoxicity of contrast media for magnetic resonance imaging after generalized breakdown of the blood–brain barrier. Evill CA, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S336–8
Neural tolerability of commercial preparations of iodinated nonionic monomers and dimers: comparison in an animal model. Maly P, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S220–2
Opioids in the brain: supraspinal mechanisms in pain control. Jensen TS. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 2):123–32 (61 ref.)
The perturbations of various CNS functions by anaesthetic drugs. Halsey M. **Acta Anaesthesiol Scand Suppl** 1997; 110:11–2
Lidocaine-induced CNS toxicity--a case report. Chiang YY, et al. **Acta Anaesthesiol Sin** 1996 Dec;34(4):243–6
Diminished neuronal damage in the rat brain by late treatment with the antipyretic drug dipyrone or cooling following cerebral ischemia. Coimbra C, et al. **Acta Neuropathol (Berl)** 1996 Nov;92(5):447–53
Increasing or decreasing nervous activity modulates the severity of the glio–vascular lesions of 1,3-dinitrobenzene in the rat: effects of the tremorgenic pyrethroid, Bifenthrin, and of anaesthesia. Holton JL, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):159–65
Pathogenesis of irradiation-induced cognitive dysfunction. Abayomi OK. **Acta Oncol** 1996;35(6):659–63 (48 ref.)
The role of NMDA receptors in central action of angiotensin II. Wiśniewski K, et al. **Acta Physiol Hung** 1996;84(3):347–8
Effects of alpha-MSH and cholinergic agents on cGMP and IP3 levels in rat brain slices. Lezcano NE, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(3):193–201
Antagonistic action of orphanin FQ on acupuncture analgesia in rat brain. Zhu CB, et al. **Acupunct Electrother Res** 1996 Jul–Dec;21(3–4):199–205
Society for Research on Nicotine and Tobacco. Heishman SJ, et al. **Addiction** 1997 May;92(5):615–33
AT1-receptors and cellular actions of angiotensin II in neuronal cultures of stroke prone–spontaneously hypertensive rat brain. Raizada MK, et al. **Adv Exp Med Biol** 1996;396:71–8
Platelet-activating factor is both a modulator of synaptic function and a mediator of cerebral injury and inflammation. Bazan NG, et al. **Adv Neurol** 1996;71:475–82; discussion 482–4
Potential neurotoxic effects of gadopentetate dimeglumine: clinical significance [letter; comment] Alhassan A, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):785–6; discussion 786–8. Comment on: AJNR Am J Neuroradiol 1996 Feb;17(2):365–73.
Neurotoxic effects of gadopentetate dimeglumine: behavioral disturbance and morphology after intracerebroventricular injection in rats [see comments] Ray DE, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):365–73. Comment in: AJNR Am J Neuroradiol 1997 Apr;18(4):785–6; discussion 786–8.
Long-term ethanol treatment elicits changes in nicotinic receptor binding in only a few brain regions. Booker TK, et al. **Alcohol** 1997 Mar–Apr;14(2):131–40
Chronic ethanol ingestion produces cholinergic hypofunction in rat brain. Floyd EA, et al. **Alcohol** 1997 Jan–Feb; 14(1):93–8
Effect of neonatal thyroid hormone alterations in CNS ethanol sensitivity in adult LS and SS mice. Segall MA, et al. **Alcohol** 1996 Nov–Dec;13(6):559–67
Elevated AP-1 DNA-binding activity in rat brain during ethanol withdrawal. Beckmann AM, et al. **Alcohol Alcohol Suppl** 1994;2:223–7
An introduction to alcohol-induced brain damage and its causes. Harper C, et al. **Alcohol Alcohol Suppl** 1994; 2:237–43 (26 ref.)
The alcohol withdrawal "kindling" phenomenon: clinical and experimental findings. Becker HC. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):121A–124A
New insight into the mechanisms of ethanol effects on GABAA receptor function and expression, and their relevance to behavior. Buck KJ. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):198A–202A
Effects of prenatal and early postnatal ethanol exposure on [3H]MK-801 binding in rat cortex and hippocampus. Diaz-Granados JL, et al. **Alcohol Clin Exp Res** 1997 Aug; 21(5):874–81
Neural mechanisms of adaptation in chronic ethanol exposure and alcoholism. Dodd P. **Alcohol Clin Exp Res** 1996 Nov; 20(8 Suppl):151A–156A
Effects of ethyl alcohol administration to THA rat dams during their gestation period on learning behavior and on levels of monoamines and metabolites in the brain of pups after birth. Furuya H, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):305A–310A
Effects of disulfiram on positron emission tomography and neuropsychological studies in severe chronic alcoholism. Gilman S, et al. **Alcohol Clin Exp Res** 1996 Nov; 20(8):1456–61
In vivo links between neurochemistry and behavioral effects of ethanol. Gonzales R. **Alcohol Clin Exp Res** 1996 Nov; 20(8 Suppl):203A–209A
Effects of cholinergic agents on locomotor activity of P and NP rats. Katner SN, et al. **Alcohol Clin Exp Res** 1996 Sep; 20(6):1004–10
Interactions between ethanol and agents that act on the NMDA-type glutamate receptor. Lovinger DM. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):187A–191A
Mitochondrial dysfunction after fetal alcohol exposure. Marin-Garcia J, et al. **Alcohol Clin Exp Res** 1996 Sep; 20(6):1029–32
Supporting cells as targets of ethanol toxicity: altered regulation of growth factors and extracellular matrix Miller MW. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):260A–264A
Mechanisms of ethanol induced neuronal death during development: from the molecule to behavior. Miller MW. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):128A–132A
Craving for alcohol and cocaine: from inside the brain to the clinic. Newlin DB. **Alcohol Clin Exp Res** 1996 Nov; 20(8 Suppl):45A–47A
Long-term effects of chronic ethanol on muscarinic receptor binding in rat brain. Rothberg BS, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1613–7
The use of electrophysiological techniques in alcohol research. Treistman SN. **Alcohol Clin Exp Res** 1996 Nov; 20(8 Suppl):62A–66A
Behavioral neurophysiology: neuronal spike train activity in alcohol research. Woodward DJ. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):101A–105A
Chronic ethanol inhibits inositol metabolism in specific brain regions. Zhang JP, et al. **Alcohol Clin Exp Res** 1997 Jun; 21(4):716–20
Binge ethanol-induced brain damage in rats: effect of inhibitors of nitric oxide synthase. Zou JY, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1406–11
Regulatory effect of danggui-shaoyao-san on central cholinergic nervous system dysfunction in mice. Itoh T, et al. **Am J Chin Med** 1996;24(3–4):205–17
Effects of chaihu-guizhi-ganjiang-tang on the levels of monoamines and their related substances, and acetylcholine in discrete brain regions of mice. Itoh T, et al. **Am J Chin Med** 1996;24(1):53–64
5-HT in DVC: disparate effects on TRH analogue-stimulated gastric acid secretion, motility, and cytoprotection. Chi J, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R368–72
Interleukin-1 induces changes in sleep, brain temperature, and serotonergic metabolism. Gemma C, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R601–6
Chronic central nervous system exposure to interleukin-1 beta causes catabolism in the rat. Hill AG, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1142–8
NO synthase inhibition modulates NMDA-induced changes in cerebral blood flow and EEG activity. Pelligrino DA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H990–5
Psychotropic drug action. Klein DF. **Am J Psychiatry** 1997 Mar;154(3):440–1
Molecular biology, V. Immediate early genes. Nestler EJ, et al. **Am J Psychiatry** 1997 Mar;154(3):312
Artemisinin neurotoxicity: neuropathology in rats and mechanistic studies in vitro. Kamchonwongpaisan S, et al. **Am J Trop Med Hyg** 1997 Jan;56(1):7–12
Quantitative, video-based histochemistry to measure regional effects of anticholinesterase pesticides in rat brain. Hammond PI, et al. **Anal Biochem** 1996 Oct 1;241(1):82–92
Opioid neurotoxicity: fentanyl dose-response effects in rats. Kofke WA, et al. **Anesth Analg** 1996 Dec;83(6):1298–306
Norepinephrine activation of basal cerebral metabolic rate for oxygen (CMRO2) during hypothermia in rats. Nemoto EM, et al. **Anesth Analg** 1996 Dec;83(6):1262–7
Postischemic brain injury is affected stereospecifically by pentazocine in rats. Takahashi H, et al. **Anesth Analg** 1997 Aug;85(2):353–7
Positron emission tomography study of regional cerebral metabolism in humans during isoflurane anesthesia. Alkire MT, et al. **Anesthesiology** 1997 Mar;86(3):549–57
Effects of pre- and postischemic administration of thiopental on transmitter amino acid release and histologic outcome in gerbils. Amakawa K, et al. **Anesthesiology** 1996 Dec; 85(6):1422–30
Supersensitive sites in the central nervous system. Anesthetics block brain nicotinic receptors [editorial; comment] Evers AS, et al. **Anesthesiology** 1997 Apr;86(4):760–2. Comment on: Anesthesiology 1997 Apr;86(4):859–65. Comment on: Anesthesiology 1997 Apr;86(4):866–74.
Alpha 4 beta 2 neuronal nicotinic acetylcholine receptors in the central nervous system are inhibited by isoflurane and propofol, but alpha 7-type nicotinic acetylcholine receptors are unaffected [see comments] Flood P, et al. **Anesthesiology** 1997 Apr;86(4):859–65. Comment in: Anesthesiology 1997 Apr;86(4):760–2.
In vivo imaging of nitrous oxide-induced changes in cerebral activation during noxious heat stimuli. Gyulai FE, et al. **Anesthesiology** 1997 Mar;86(3):538–48
Effects of iron complexes on brain calcium homeostasis. Anghileri LJ, et al. **Ann Clin Lab Sci** 1997 May–Jun; 27(3):210–5
Alterations in electroencephalographic signals and monoamine concentrations in the rat brain following cocaine and methamphetamine treatment. Binienda Z, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:394–400
Neurochemical analysis of the tyrosine hydroxylase expression in methamphetamine-sensitized rats. Fukamauchi F, et al. **Ann N Y Acad Sci** 1996 Oct 31; 801:371–6
The role of the brain histaminergic neuron system in methamphetamine-induced behavioral sensitization in rats. Ito C, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:353–60
The brain is an important target of adrenal steroid actions. A comparison of synthetic and natural steroids. McEwen BS. **Ann N Y Acad Sci** 1997 Aug 14;823:201–13 (84 ref.)
Lack of neuroprotective effect of sigma receptor ligands in the neurotoxicity of p-chloroamphetamine in rat brain. Narita N, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:199–204
NOS and fos in rat and mouse brain regions. Possible relation to ibogaine-induced Purkinje cell loss. Scallet AC, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:227–38
Immunosuppressants, immunophilins, and the nervous system [editorial] Dawson TM. **Ann Neurol** 1996 Oct;40(4):559–60 (18 ref.)
Brain impairment in well-nourished chronic alcoholics is related to ethanol intake. Nicolás JM, et al. **Ann Neurol** 1997 May;41(5):590–8
Effects of reserpine treatment on the dopamine receptor binding of [3H/11C]nemonapride in the mouse and rat brain. Ishiwata K, et al. **Ann Nucl Med** 1997 Feb;11(1):21–6
Positron emission tomography measurement of cerebral metabolic correlates of yohimbine administration in combat-related posttraumatic stress disorder. Bremner JD, et al. **Arch Gen Psychiatry** 1997 Mar;54(3):246–54
The brain metabolic patterns of clozapine- and fluphenazine-treated patients with schizophrenia during a continuous performance task. Cohen RM, et al. **Arch Gen Psychiatry** 1997 May;54(5):481–6
Effects of mefloquine on Ca2+ uptake and release by dog brain microsomes. Lee HS, et al. **Arch Int Pharmacodyn Ther** 1996 May–Jun;331(3):221–31
Beneficial effect on nebracetam on energy metabolism after microsphere-induced embolism in rat brain. Takeo S, et al. **Arch Int Pharmacodyn Ther** 1996 May–Jun; 331(3):232–45
Effects of calcium channel blockers on impairment of brain function in senescence-accelerated mice. Yamamoto M, et al. **Arch Int Pharmacodyn Ther** 1995 Sep–Oct;330(2):125–37
Effects of paraquat on mitochondrial electron transport system and catecholamine contents in rat brain. Tawara T, et al. **Arch Toxicol** 1996;70(9):585–9
Glutathione depletion in the liver and brain produced by 2-chloropropionic acid: relevance to cerebellar granule cell necrosis. Wyatt I, et al. **Arch Toxicol** 1996;70(6):380–9
Mechanisms and models of neurotoxicity of n-hexane and related solvents. Tähti H, et al. **Arch Toxicol Suppl** 1997; 19:337–45 (40 ref.)
Effect of the new antiallergic agent olopatadine on EEG spectral powers in conscious rats. Kamei C, et al. **Arzneimittelforschung** 1996 Aug;46(8):789–93
Lead-induced changes in NMDA receptor complex binding: correlations with learning accuracy and with sensitivity to learning impairments caused by MK-801 and NMDA administration. Cory-Slechta DA, et al. **Behav Brain Res** 1997 May;85(2):161–74
The brain cholinergic system as a target of cognition enhancers. Giovannini MG, et al. **Behav Brain Res** 1997 Feb;83(1–2):1–5 (69 ref.)
Behavioral stereotypies induced by "binge' cocaine administration are independent of drug-induced increases in corticosterone levels. Spangler R, et al. **Behav Brain Res** 1997 Jul;86(2):201–4
Increases in vocalization and motor reflex thresholds generated by the intrathecal administration of serotonin or norepinephrine. Borszcz GS, et al. **Behav Neurosci** 1996 Aug;110(4):809–22

Anticholinergic effects on acquisition of place learning in the Morris water task: spatial mapping deficit or inability to inhibit nonplace strategies? Day LB, et al. **Behav Neurosci** 1996 Oct;110(5):998–1005

Galanin receptor antagonist M40 blocks galanin–induced choice accuracy deficits on a delayed–nonmatching–to–position task. McDonald MP, et al. **Behav Neurosci** 1996 Oct;110(5):1025–32

Repeated peripheral administration of 6R–L–erythro–5,6,7,8–tetrahydrobiopterin alters the binding activities of 5–HT1A and 5–HT2 receptors in rat brain. Muguruma K, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):794–9

Effects of aging and diet on the accumulation of dolichol in rat tissues. Ishinaga M. **Biochem Cell Biol** 1996; 74(2):265–70

Effects of piracetam on membrane fluidity in the aged mouse, rat, and human brain. Müller WE, et al. **Biochem Pharmacol** 1997 Jan 24;53(2):135–40

Insensitivity of cultured rat cortical neurons to mitochondrial DNA synthesis inhibitors: evidence for a slow turnover of mitochondrial DNA. Wang GJ, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):181–7

Transferrin and ferritin modulate the activity of brain calcium–calmodulin–dependent phosphodiesterase. Yefimova MG, et al. **Biochemistry (Mosc)** 1997 Feb; 62(2):165–70

Desensitization and internalization of adenosine A1 receptors in rat brain by in vivo treatment with R–PIA: involvement of coated vesicles. Ruiz A, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):168–74

Ginseng pretreatment protects against transient global cerebral ischemia in the rat: measurement of local cerebral glucose utilization by [14C]deoxyglucose autoradiography. Choi SR, et al. **Biol Pharm Bull** 1996 Apr;19(4):644–6

Effect of renal failure on neurotoxicity of ranitidine in rats. Nakada Y, et al. **Biol Pharm Bull** 1996 Feb;19(2):323–5

Effect of acute ethanol on auditory and visual event–related potentials: a review and reinterpretation. Jääskeläinen IP, et al. **Biol Psychiatry** 1996 Aug 15;40(4):284–91 (78 ref.)

Enhanced response to repeated d–amphetamine challenge: evidence for behavioral sensitization in humans [see comments] Strakowski SM, et al. **Biol Psychiatry** 1996 Nov 1;40(9):872–80. Comment in: Biol Psychiatry 1997 Aug 1;42(3):230–1.

Dietary copper supplementation increases the catecholamine levels in genetically obese (ob/ob) mice. Lin WH, et al. **Biol Trace Elem Res** 1995 Dec;50(3):243–7

Reversible brain MRI changes in acyclovir neurotoxicity. Blohm ME, et al. **Bone Marrow Transplant** 1997 May; 19(10):1049–51

Tacrolimus (FK506)–induced cerebral blindness following bone marrow transplantation. Devine SM, et al. **Bone Marrow Transplant** 1996 Sep;18(3):569–72

On the cerebro–protective effects of caroverine, a calcium–channel blocker and antiglutamatergic drug: double–blind, placebo–controlled, EEG mapping and psychometric studies under hypoxia. Saletu B, et al. **Br J Clin Pharmacol** 1996 Feb;41(2):89–99

Alcohol and the brain. Scheepers BD. **Br J Hosp Med** 1997 Jun 4–17;57(11):548–51 (16 ref.)

Investigation of the involvement of the N–methyl–D–aspartate receptor macrocomplex in the development of spermine–induced CNS excitation in vivo. Doyle KM, et al. **Br J Pharmacol** 1996 Apr;117(8):1803–8

Pharmacological modulation of immunoreactive imidazoline receptor proteins in rat brain: relationship with non–adrenoceptor [3H]–idazoxan binding sites. Escribá PV, et al. **Br J Pharmacol** 1996 Aug;118(8):2029–36

Evidence for P–glycoprotein–modulated penetration of morphine–6–glucuronide into brain capillary endothelium. Huwyler J, et al. **Br J Pharmacol** 1996 Aug;118(8):1879–85

Furosemide interactions with brain GABAA receptors. Korpi ER, et al. **Br J Pharmacol** 1997 Mar;120(5):741–8

Differential desensitization of mu– and delta– opioid receptors in selected neural pathways following chronic morphine treatment. Noble F, et al. **Br J Pharmacol** 1996 Jan;117(1):161–9

Differential action of NMDA antagonists on cholinergic neurotoxicity produced by N–methyl–D–aspartate and quinolinic acid. Pawley AC, et al. **Br J Pharmacol** 1996 Mar;117(6):1059–64

Comparison of the autoradiographic binding distribution of [3H]–gabapentin with excitatory amino acid receptor and amino acid uptake site distributions in rat brain. Thurlow RJ, et al. **Br J Pharmacol** 1996 Jun;118(3):457–65

Bidirectional modulatory effect of orphanin FQ on morphine–induced analgesia: antagonism in brain and potentiation in spinal cord of the rat. Tian JH, et al. **Br J Pharmacol** 1997 Feb;120(4):676–80

Autoradiographic localization of arginine vasopressin binding sites in the brain of adult and developing Brazilian opossums. Kuehl–Kovarik MC, et al. **Brain Behav Evol** 1997;49(5):261–75

Neurotoxic effects of DSP–4 on the noradrenergic system of the goldfish brain. Villani L, et al. **Brain Behav Evol** 1996;47(5):219–24

Response of human oligodendrocytes to interleukin–2. Otero GC, et al. **Brain Behav Immun** 1997 Mar;11(1):24–38

Clinical and research contributions of the intracarotid amobarbital procedure to neuropsychology. Jones–Gotman M, et al. **Brain Cogn** 1997 Feb;33(1):1–6 (20 ref.)

Assessment of the functional effect of the intracarotid sodium amobarbital procedure using co–registered MRI/HMPAO–SPECT and SEEG. McMackin D, et al. **Brain Cogn** 1997 Feb;33(1):50–70

Amobarbital memory testing: some personal reflections. Milner B. **Brain Cogn** 1997 Feb;33(1):14–7

The intracarotid amobarbital procedure: an historical perspective. Snyder PJ, et al. **Brain Cogn** 1997 Feb; 33(1):18–32

Cerebral anesthesia for localization of speech: the contribution of W. James Gardner. Harris LJ, et al. **Brain Lang** 1997 Feb 15;56(3):377–96

The depolarisation–induced release of [125I]BDNF from brain tissue. Androutsellis–Theotokis A, et al. **Brain Res** 1996 Dec 16;743(1–2):40–8

Sequelae of parenteral domoic acid administration in rats: comparison of effects on different metabolic markers in brain. Appel NM, et al. **Brain Res** 1997 Apr 18; 754(1–2):55–64

Opposite modulatory effects of ovarian hormones on rat brain dopamine and serotonin transporters. Attali G, et al. **Brain Res** 1997 May 9;756(1–2):153–9

Effects of intraseptal injection of 192–IgG–saporin in mature and aged Long–Evans rats. Bannon AW, et al. **Brain Res** 1996 Apr 29;718(1–2):25–36

Expression of inducible cyclooxygenase mRNA in the mouse brain after systemic administration of bacterial lipopolysaccharide. Breder CD, et al. **Brain Res** 1996 Mar 25;713(1–2):64–9

Kappa opioid receptor agonists inhibit sigma–1 (sigma 1) receptor binding in guinea–pig brain, liver and spleen: autoradiographical evidence. Brent PJ. **Brain Res** 1996 Jul 1;725(2):155–65

Interferon modulates neuronal activity recorded from the hypothalamus, thalamus, hippocampus, amygdala and the somatosensory cortex. Dafny N, et al. **Brain Res** 1996 Sep 23;734(1–2):269–74

Simultaneous determination of binding of a variety of radioligands related to ionotropic excitatory amino acid receptors in fetal and neonatal rat brains. Enomoto R, et al. **Brain Res** 1996 Jun 3;723(1–2):100–9

Limitation of glycolysis by hexokinase in rat brain synaptosomes during intense ion pumping. Erecińska M, et al. **Brain Res** 1996 Jul 8;726(1–2):153–9

Hypercapnia–induced increases in cerebral blood flow: roles of adenosine, nitric oxide and cortical arousal. Estevez AY, et al. **Brain Res** 1997 May 30;758(1–2):1–8

3–Acetylpyridine–induced degeneration and regeneration in the adult lizard brain: a qualitative and quantitative analysis. Font E, et al. **Brain Res** 1997 Apr 18;754(1–2):245–59

Effects of Hg2+ and CH3Hg+ on Ca2+ fluxes in rat brain microsomes. Freitas AJ, et al. **Brain Res** 1996 Nov 4; 738(2):257–64

Expression of mRNA coding for the serotonin transporter in aged vs. young rat brain: differential effects of glucocorticoids. Fumagalli F, et al. **Brain Res** 1996 May 6;719(1–2):225–8

Effect of phosphatidylserine on the binding properties of glutamate receptors in brain sections from adult and neonatal rats. Gagné J, et al. **Brain Res** 1996 Nov 18; 740(1–2):337–45

Oxidative stress in the brain following intraventricular administration of ethylcholine aziridinium (AF64A). Gulyaeva NV, et al. **Brain Res** 1996 Jul 8;726(1–2):174–80

Inhibition of NMDA–induced increase in brain temperature by N–omega–nitro–L–arginine and indomethacin in rats. Hara S, et al. **Brain Res** 1997 May 9;756(1–2):301–4

The N–methyl–D–aspartate (NMDA) receptor glycine site antagonist ACEA 1021 does not produce pathological changes in rat brain. Hawkinson JE, et al. **Brain Res** 1997 Jan 9;744(2):227–34

Effects of ketamine on dopamine metabolism during anesthesia in discrete brain regions in mice: comparison with the effects during the recovery and subanesthetic phases. Irifune M, et al. **Brain Res** 1997 Jul 25;763(2):281–4

C3H/HeJ mice are refractory to lipopolysaccharide in the brain. Johnson RW, et al. **Brain Res** 1997 Mar 28; 752(1–2):219–26

Age–related assessment of central 5–HT1A receptors following irreversible inactivation by N–ethoxycarbonyl–2–ethoxy–1,2–dihydroquinoline (EEDQ). Keck J, et al. **Brain Res** 1996 Jul 22;728(1):130–4

Thyrotropin–releasing hormone (TRH) is markedly increased in the rat brain following soman–induced convulsions. Kubek MJ, et al. **Brain Res** 1997 Feb 7;747(2):328–31

Differential effects of diet and obesity on high and low affinity sulfonylurea binding sites in the rat brain. Levin BE, et al. **Brain Res** 1996 Nov 11;739(1–2):293–300

Effect of chronic dexfenfluramine on Fos in rat brain. Li BH, et al. **Brain Res** 1996 Jul 29;728(2):188–92

Brain [3H]cAMP binding sites are unaltered in depressed suicides, but decreased by antidepressants. Lowther S, et al. **Brain Res** 1997 May 30;758(1–2):223–8

Dopamine depletion in the rostral nucleus accumbens alters the cerebral metabolic response to cocaine in the rat. Lyons D, et al. **Brain Res** 1997 Apr 4;753(1):69–79

Alteration of local cerebral glucose utilization following intravenous administration of heroin in Fischer 344 rats. Martin TJ, et al. **Brain Res** 1997 May 2;755(2):313–8

Brain somatostatin depletion by cysteamine attenuates the penile erection induced by serotonergic and dopaminergic, but not by cholinergic, activation in rats. Matsuoka N, et al. **Brain Res** 1996 Aug 5;729(1):132–6

Modulation of catecholamine release by alpha 2–adrenoceptors and I1–imidazoline receptors in rat brain. Meana JJ, et al. **Brain Res** 1997 Jan 9;744(2):216–26

Roles of dopamine D1 receptors in delta 9–tetrahydrocannabinol–induced expression of Fos protein in the rat brain. Miyamoto A, et al. **Brain Res** 1996 Feb 26;710(1–2):234–40

Down–regulation of beta–adrenergic receptor following long–term monocular deprivation in cat visual cortex. Muguruma K, et al. **Brain Res** 1996 Nov 18;740(1–2):131–40

Flow–cytometric estimation on glutamate– and kainate–induced increases in intracellular Ca2+ of brain neurons: a technical aspect. Oyama Y, et al. **Brain Res** 1996 Jul 22;728(1):121–4

Expression of Fos in rat brain in relation to sodium appetite: furosemide and cerebroventricular renin. Rowland NE, et al. **Brain Res** 1996 Jul 22;728(1):90–6

Nanoparticles, a drug carrier system to pass the blood–brain barrier, permit central analgesic effects of i.v. dalargin injections. Schröder U, et al. **Brain Res** 1996 Feb 26; 710(1–2):121–4

Repeated interferon–alpha administration inhibits dopaminergic neural activity in the mouse brain. Shuto H, et al. **Brain Res** 1997 Feb 7;747(2):348–51

Cryptic brain cell injury caused by fetal nicotine exposure is associated with persistent elevations of c–fos protooncogene expression. Slotkin TA, et al. **Brain Res** 1997 Mar 7;750(1–2):180–8

mu–Opioid receptor binding in chicken brain in relation to degree of food restriction: a quantitative autoradiographic study. Stewart MG, et al. **Brain Res** 1996 Dec 2; 742(1–2):343–6

Biphasic effect of tacrine on acetylcholine release in rat brain via M1 and M2 receptors. Svensson AL, et al. **Brain Res** 1996 Jul 8;726(1–2):207–12

Memantine induces heat shock protein HSP70 in the posterior cingulate cortex, retrosplenial cortex and dentate gyrus of rat brain. Tomitaka S, et al. **Brain Res** 1996 Nov 18; 740(1–2):1–5

Effect of 6R–L–erythro–5,6,7,8–tetrahydrobiopterin and infusion of L–tyrosine on the in vivo L–[beta–11C] DOPA disposition in the monkey brain. Tsukada H, et al. **Brain Res** 1996 Mar 25;713(1–2):92–8

The locus coeruleus noradrenergic system in the rat brain studied by dual–probe microdialysis. Van Gaalen M, et al. **Brain Res** 1997 Jul 18;763(1):56–62

Single doses of MK–801, a non–competitive antagonist of NMDA receptors, increase the number of 5–HT1A serotonin receptors in the rat brain. Wędzony K, et al. **Brain Res** 1997 May 9;756(1–2):84–91

Effects of maternal oral administration of monosodium glutamate at a late stage of pregnancy on developing mouse fetal brain. Yu T, et al. **Brain Res** 1997 Feb 7;747(2):195–206

Chlorpyrifos interferes with cell development in rat brain regions. Campbell CG, et al. **Brain Res Bull** 1997; 43(2):179–89

FOS and JUN as markers for ethanol–sensitive pathways in the rat brain. Davidson M, et al. **Brain Res Bull** 1996; 39(3):177–84

Evidence for a dopaminergic involvement in the natriuretic action of centrally administered renin. Israel A, et al. **Brain Res Bull** 1996;39(6):401–5

Effects of systemic administration of 2–(4–phenyl–piperidino)–cyclohexanol (vesamicol) and an organophosphate DDVP on the cholinergic system in brain regions of rats. Kobayashi H, et al. **Brain Res Bull** 1997; 43(1):17–23

Maternal exposure to delta 9–tetrahydrocannabinol (delta 9–THC) alters indolamine levels and turnover in adult male and female rat brain regions. Molina–Holgado F, et al. **Brain Res Bull** 1997;43(2):173–8

Ameliorating effects of SDZ ENA 713 on age–associated decreases in learning performance and brain choline acetyltransferase activity in rats. Ohara T, et al. **Brain Res Bull** 1997;43(1):39–42

Effect of chronic treatment with morphine, midazolam, and both together on beta–endorphin levels in the rat. Rattan AK, et al. **Brain Res Bull** 1996;41(6):335–41

Changes in serotonergic measures in whole blood and various brain regions of rats administered with the 5–HT1A agonist tandospirone and/or exposed to electric foot–shock. Takada Y, et al. **Brain Res Bull** 1996;40(1):51–5

Effect of morphine on proenkephalin gene expression in the rat brain. Yukhananov RY, et al. **Brain Res Bull** 1997; 43(3):349–56

Cocaethylene exposure during the brain growth spurt period: brain growth restrictions and neurochemistry studies. Chen WJ, et al. **Brain Res Dev Brain Res** 1997 Jun 18; 100(2):220–9

CNTF induces GFAP in a S–100 alpha brain cell population: the pattern of CNTF–alpha R suggests an indirect mode of action. Kahn MA, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):221–33

Decrease of (+)–3–[125I]MK–801 binding to NMDA brain receptors revealed at puberty in rats treated neonatally with monosodium glutamate. Otoya RE, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):149–56

Long–term effects of excitatory amino acid antagonists NBQX and MK–801 on the developing brain. Tandon P, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):256–62

In vivo regulation of neurotensin receptors following

long-term pharmacological blockade with a specific receptor antagonist. Azzi M, et al.
Brain Res Mol Brain Res 1996 Dec;42(2):213–21

Ovariectomy and estradiol treatment affect the dopamine transporter and its gene expression in the rat brain. Bossé R, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):343–6

Adrenalectomy enhances pro-inflammatory cytokines gene expression, in the spleen, pituitary and brain of mice in response to lipopolysaccharide. Goujon E, et al.
Brain Res Mol Brain Res 1996 Feb;36(1):53–62

Channel activators reduce the expression of sodium channel alpha-subunit mRNA in developing neurons. Lara A, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):116–24

ST/b and DBA/2 mice differ in brain alpha-bungarotoxin binding and alpha 7 nicotinic receptor subunit mRNA levels: a quantitative autoradiographic analysis. Marks MJ, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):207–22

mRNAs encoding urokinase-type plasminogen activator and plasminogen activator inhibitor-1 are elevated in the mouse brain following kainate-mediated excitation. Masos T, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):157–69

A comprehensive study of the spatiotemporal pattern of beta-amyloid precursor protein mRNA and protein in the rat brain: lack of modulation by exogenously applied nerve growth factor. Neve RL, et al.
Brain Res Mol Brain Res 1996 Jul;39(1–2):185–97

Time-dependent changes in NMDA receptor expression in neurones cultured from rat brain. Priestley T, et al.
Brain Res Mol Brain Res 1996 Sep 1;40(2):271–4

Regional variability in changes in 5-HT2A receptor mRNA levels in rat brain following irreversible inactivation with EEDQ. Raghupathi RK, et al.
Brain Res Mol Brain Res 1996 Jul;39(1–2):198–206

Chronic triazolam and its withdrawal alters GABAA receptor subunit mRNA levels: an in situ hybridization study. Ramsey-Williams VA, et al.
Brain Res Mol Brain Res 1996 Dec 31;43(1–2):132–40

Effects of chronic exposure to delta9-tetrahydrocannabinol on cannabinoid receptor binding and mRNA levels in several rat brain regions. Romero J, et al.
Brain Res Mol Brain Res 1997 Jun;46(1–2):100–8

Chronic treatment with a synthetic cannabinoid CP-55,940 alters G-protein expression in the rat central nervous system. Rubino T, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):191–7

Ginsenoside Rb1 regulates ChAT, NGF and trkA mRNA expression in the rat brain. Salim KN, et al.
Brain Res Mol Brain Res 1997 Jul;47(1–2):177–82

Potential effect of cytokines on transgene expression in primary fibroblasts implanted into the rat brain. Schinstine M, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):195–201

Regulation of kappa opioid receptor mRNA in the rat brain by 'binge' pattern cocaine administration and correlation with preprodynorphin mRNA. Spangler R, et al.
Brain Res Mol Brain Res 1996 May;38(1):71–6

Glucocorticoid interactions with ethanol effects on depolarization-induced calcium influx in brain synaptosomes. Sze PY. **Brain Res Mol Brain Res** 1996 Apr; 37(1–2):231–8

Effects of chronic lithium and electroconvulsive stimuli on cholecystokinin mRNA expression in the rat brain. Zachrisson O, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):347–50

Influence of textile dyeing and printing industry effluent on ATPases in liver, brain, and muscle of mudskipper, Periophthalmus dipes. Chhaya J, et al.
Bull Environ Contam Toxicol 1997 May;58(5):793–800

Evaluation of liver and brain esterases in the spotted gar fish (Lepisosteus oculatus) as biomarkers of effect in the lower Mississippi River Basin. Huang TL, et al.
Bull Environ Contam Toxicol 1997 May;58(5):688–95

Influence of two naturally occurring abietane monocarboxylic acids (resin acids) and a chlorinated derivative on release of the inhibitory neurotransmitter gamma-aminobutyric acid from trout brain synaptosomes. Zheng J, et al. **Bull Environ Contam Toxicol** 1996 Jan; 56(1):114–20

Decompensation of hepatic and cerebral acyl-CoA metabolism in BALB/cByJ mice by chronic riboflavin deficiency: restoration by acetyl-L-carnitine. Rao KV, et al. **Can J Physiol Pharmacol** 1997 May;75(5):423–30

Formation and persistence of O6-ethylguanine in genomic and transgene DNA in liver and brain of lambda(lacZ) transgenic mice treated with N-ethyl-N-nitrosourea. Mientjes EJ, et al. **Carcinogenesis** 1996 Nov;17(11):2449–54

Chronic ACE inhibition by quinapril modulates central vasopressinergic system. Muders F, et al.
Cardiovasc Res 1997 Jun;34(3):575–81

Is a central action of acute antimigraine drugs essential? Goadsby PJ. **Cephalalgia** 1997 Jun;17 Suppl 17:10–1

Measuring central action of acute antimigraine drugs in humans. Schoenen J. **Cephalalgia** 1997 Jun;17 Suppl 17:12–5; discussion 15–6

Synthesis, redox properties, in vivo formation, and neurobehavioral effects of N-acetylcysteinyl conjugates of dopamine: possible metabolites of relevance to Parkinson's disease. Shen XM, et al. **Chem Res Toxicol** 1996 Oct–Nov; 9(7):1117–26

Comparison of the central nervous system effects produced by six H1-receptor antagonists. Simons FE, et al.
Clin Exp Allergy 1996 Sep;26(9):1092–7

Evidence against a central pressor mechanism for adrenocortical steroid hypertension in sheep. Tresham JJ, et al. **Clin Exp Hypertens** 1996 Aug;18(6):831–49

Relationships between blood drug concentrations and cerebral effects. Upton RN.
Clin Exp Pharmacol Physiol 1996 Aug;23(8):S52–3

Effect of L-Dopa and the catechol-O-methyltransferase inhibitor Ro 41-0960 on sulfur amino acid metabolites in rats. Miller JW, et al. **Clin Neuropharmacol** 1997 Feb; 20(1):55–66

Mechanisms of neuroprotective drug actions. Krieglstein J.
Clin Neurosci 1997;4(4):184–93 (28 ref.)

Ethanol alters brain phospholipid levels which correlate with altered brain morphology. Miller RR Jr, et al.
Comp Biochem Physiol B Biochem Mol Biol 1997 Apr; 116(4):407–17

Effect of long-term in vivo treatment with imipramine on the oxidative energy metabolism in rat brain mitochondria. Katyare SS, et al.
Comp Biochem Physiol C Pharmacol Toxicol Endocrinol 1995 Nov;112(3):353–7

Comparison of the effects of a series of kappa-opioid receptor agonists upon sodium channel function in rat brain miniprisms. Tiger G, et al.
Comp Biochem Physiol C Pharmacol Toxicol Endocrinol 1997 May;117(1):69–73

Comparative analysis of brain protection by N-methyl-D-aspartate receptor antagonists after transient focal ischemia in cats. Miyabe M, et al. **Crit Care Med** 1997 Jun;25(6):1037–43

Mechanisms of action of new antiepileptic drugs. Macdonald RL, et al. **Curr Opin Neurol** 1997 Apr;10(2):121–8 (99 ref.)

Neurochemical and pathological alterations following infusion of leupeptin, a protease inhibitor, into the rat brain. Kuki K, et al. **Dementia** 1996 Sep–Oct;7(5):233–8

The effect of intravenous lactate on cerebral function during hypoglycaemia. King P, et al. **Diabet Med** 1997 Jan; 14(1):19–28

Effects of phentermine and cocaine on fenfluramine-induced depletion of serotonin in mouse brain. Baumann MH, et al. **Drug Alcohol Depend** 1996 May;41(1):71–4

Alterations in serotonin1B (5HT1B) receptor subtypes in the brain of ethanol-treated rats. Pandey SC, et al.
Drug Alcohol Depend 1996 Jul;41(3):219–25

Perinatal exposure to methadone affects central cholinergic activity in the weanling rat. Robinson SE, et al.
Drug Alcohol Depend 1996 Jun;41(2):119–26

Inhibition of lipid peroxidation by selenium in chick embryos. Padmaja K, et al. **Drug Chem Toxicol** 1997 Feb–May; 20(1–2):79–98

Drugs and brain death. Kennedy M, et al. **Drug Saf** 1996 Mar;14(3):171–80 (57 ref.)

Can estrogens prevent neurodegeneration? Schneider LS, et al. **Drugs Aging** 1997 Aug;11(2):87–95 (65 ref.)

The pressor response induced by repeated injections of neostigmine into the central nervous system is desensitized in adrenalectomized, but not in intact rats. Uemura K, et al. **Endocr J** 1997 Apr;44(2):219–25

Growth hormone induces somatostatin and insulin-like growth factor I gene expression in the cerebral hemispheres of aging rats. López-Fernández J, et al. **Endocrinology** 1996 Oct;137(10):4384–91

New Persian Gulf possibilities [news]
Environ Health Perspect 1996 Aug;104(8):819–20

Results of lead research: prenatal exposure and neurological consequences. Goyer RA. **Environ Health Perspect** 1996 Oct;104(10):1050–4 (53 ref.)

Epileptiform activity in the piriform cortex of the in vitro isolated guinea pig brain preparation. de Curtis M, et al.
Epilepsy Res 1996 Dec;26(1):75–80

Reduction in nitric oxide synthase activity with development of an epileptogenic focus induced by ferric chloride in the rat brain. Kabuto H, et al. **Epilepsy Res** 1996 Oct;25(2):65–8

Neurochemical actions of gabapentin in mouse brain. Leach JP, et al. **Epilepsy Res** 1997 Jun;27(3):175–80

Effects of non-toxic and toxic concentrations of phenytoin on monoamines levels in rat brain. Okada M, et al.
Epilepsy Res 1997 Sep;28(2):155–63

Developmental aspects of the pilocarpine model of epilepsy. Priel MR, et al. **Epilepsy Res** 1996 Dec;26(1):115–21

MAO-A inhibition in brain after dosing with esuprone, moclobemide and placebo in healthy volunteers: in vivo studies with positron emission tomography. Bergström M, et al. **Eur J Clin Pharmacol** 1997;52(2):121–8

The negative mucosal potential: separating central and peripheral effects of NSAIDs in man. Lötsch J, et al.
Eur J Clin Pharmacol 1997;52(5):359–64

Antidepressant drugs inhibit a glial 5-hydroxytryptamine transporter in rat brain. Bal N, et al. **Eur J Neurosci** 1997 Aug;9(8):1728–38

Neurite outgrowth inhibitor of gliotic brain tissue. Mode of action and cellular localization, studied with specific monoclonal antibodies. Bovolenta P, et al.
Eur J Neurosci 1997 May;9(5):977–89

Influence of interleukin-6 on neural activity and transcription of the gene encoding corticotrophin-releasing factor in the rat brain: an effect depending upon the route of administration. Vallières L, et al. **Eur J Neurosci** 1997 Jul; 9(7):1461–72

Regional variation in the effects of nicotine on catecholamine overflow in rat brain. Benwell ME, et al.
Eur J Pharmacol 1997 Apr 23;325(1):13–20

Amphiphilic alpha-tocopherol analogues as inhibitors of brain lipid peroxidation. Bolkenius FN, et al.
Eur J Pharmacol 1996 Feb 29;298(1):37–43

delta 9-Tetrahydrocannabinol is a partial agonist of cannabinoid receptors in mouse brain. Burkey TH, et al.
Eur J Pharmacol 1997 Apr 4;323(2–3):R3–4

Neurotoxicity of free-radical-mediated serotonin neurotoxin in cultured embryonic chick brain neurons. Chen JC, et al. **Eur J Pharmacol** 1996 May 6;303(1–2):109–14

Regulation of tyrosine hydroxylase and aromatic L-amino acid decarboxylase by dopaminergic drugs. Cho S, et al.
Eur J Pharmacol 1997 Apr 4;323(2–3):149–57

Modulation of tyrosine hydroxylase and aromatic L-amino acid decarboxylase after inhibiting monoamine oxidase-A. Cho S, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):51–9

A glucocorticoid receptor-independent mechanism for neurosteroid inhibition of tumor necrosis factor production. Di Santo E, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1–3):179–86

Involvement of delta- and mu-opioid receptors in the potentiation of brain-stimulation reward. Duvauchelle CL, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):137–43

Effects of 7-nitroindazole, NG-nitro-L-arginine, and D-CPPene on harmaline-induced postural tremor, N-methyl-D-aspartate-induced seizures, and lisuride-induced rotations in rats with nigral 6-hydroxydopamine lesions. Eblen F, et al.
Eur J Pharmacol 1996 Mar 28;299(1–3):9–16

Vincamine and vincanol are potent blockers of voltage-gated Na+ channels. Erdo SA, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):69–73

Regulation of glutamic acid decarboxylase mRNA expression in rat brain after sertraline treatment. Giardino L, et al.
Eur J Pharmacol 1996 Sep 26;312(2):183–7

Perinatal exposure to morphine: reactive changes in the brain after 6-hydroxydopamine. Gorio A, et al.
Eur J Pharmacol 1996 May 6;303(1–2):21–6

Effects of thiocyanate and AMPA receptor ligands on (S)-5-fluorowillardiine, (S)-AMPA and (R,S)-AMPA binding. Hawkinson JE, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):213–21

AM630 antagonism of cannabinoid-stimulated [35S]GTP gamma S binding in the mouse brain. Hosohata Y, et al.
Eur J Pharmacol 1997 Feb 19;321(1):R1–3

Different effects of chronic administration of haloperidol and pimozide on dopamine metabolism in the rat brain. Karolewicz B, et al. **Eur J Pharmacol** 1996 Oct 17; 313(3):181–6

GYKI 53665, a 2,3-benzodiazepine, non-competitively protects cultured neurones against AMPA toxicity. Kovács AD, et al. **Eur J Pharmacol** 1997 Jul 16;331(1):93–6

Zn2+ inhibition of [3H]MK-801 binding is different in mouse brain and spinal cord: effect of glycine and glutamate. Kovács KJ, et al. **Eur J Pharmacol** 1997 Apr 11; 324(1):117–23

Effects of chronic diazepam treatment on pre- and postsynaptic 5-HT1A receptors in the rat brain. Lanfumey L, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):137–48

Valproate and its major metabolite E-2-en-valproate induce different effects on behaviour and brain monoamine metabolism in rats. Löscher W, et al. **Eur J Pharmacol** 1996 Mar 28;299(1–3):61–7

Chronic treatment with typical and atypical antipsychotics increases the AMPA-preferring form of AMPA receptor in rat brain. McCoy L, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):41–5

The subtype-selective alpha 2-adrenoceptor antagonists BRL 44408 and ARC 239 also recognize 5-HT1A receptors in the rat brain. Meana JJ, et al.
Eur J Pharmacol 1996 Oct 3;312(3):385–8

2,5-Bis-(glutathion-S-yl)-alpha-methyldopamine, a putative metabolite of (+/-)-3,4-methylenedioxyamphetamine, decreases brain serotonin concentrations. Miller RT, et al.
Eur J Pharmacol 1997 Apr 4;323(2–3):173–80

Effect of maternal delta 9-tetrahydrocannabinol on developing serotonergic system. Molina-Holgado F, et al.
Eur J Pharmacol 1996 Nov 28;316(1):39–42

Anxiolytic homophthalazines increase Fos-like immunoreactivity in selected brain areas of the rat. Palkovits M, et al. **Eur J Pharmacol** 1997 Jul 16; 331(1):53–63

Effect of metrifonate on extracellular brain acetylcholine and object recognition in aged rats. Scali C, et al.
Eur J Pharmacol 1997 May 1;325(2–3):173–80

Pentoxifylline decreases brain levels of platelet activating factor in murine AIDS. Sei Y, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):81–4

Neurochemical studies with the novel anticonvulsant levetiracetam in mouse brain. Sills GJ, et al.
Eur J Pharmacol 1997 Apr 23;325(1):35–40

(R,S)-3,4-dichlorobenzoylalanine (FCE 28833A) causes a large and persistent increase in brain kynurenic acid levels in rats. Speciale C, et al. **Eur J Pharmacol** 1996 Nov 21; 315(3):263–7

Felbamate inhibits cloned voltage-dependent Na+ channels from human and rat brain. Taglialatela M, et al.
Eur J Pharmacol 1996 Dec 5;316(2–3):373–7

Structure-activity analysis for the effects of gamma-MSH/ACTH-like peptides on cerebral hemodynamics in rats. Van Bergen P, et al.
Eur J Pharmacol 1996 Dec 30;318(2–3):357–68

Distribution of N-type Ca2+ channel binding sites in rabbit brain following central administration of omega-conotoxin

GVIA. Whorlow SL, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):11–8

Effects of clozapine metabolites and chronic clozapine treatment on rat brain GABAA receptors. Wong G, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):319–23

Effects of ginsenosides on maze performance and brain choline acetyltransferase activity in scopolamine–treated young rats and aged rats. Yamaguchi Y, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):37–41

Subchronic administration of N–[2–(3,4–dichlorophenyl) ethyl]–N–methyl–2–(dimethylamino) ethylamine (BD1047) alters sigma 1 receptor binding. Zambon AC, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):39–47

Ammonium acetate challenge in experimental chronic hepatic encephalopathy induces a transient increase of brain 5–HT release in vivo. Bergqvist PB, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):317–22

Induction of c–fos gene expression by the selective sigma receptor ligand EMD 57445 in rat brain. Dahmen N, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):237–43

The hematopoietic cytokine colony stimulating factor 1 is also a growth factor in the CNS: (II). Microencapsulated CSF–1 and LM–10 cells as delivery systems. Maysinger D, et al. **Exp Neurol** 1996 Sep;141(1):47–56

Effects of GDNF on fetal septal forebrain transplants in oculo. Price ML, et al. **Exp Neurol** 1996 Oct;141(2):181–9

Low–dose vigabatrin (gamma–vinyl GABA)–induced damage in the immature rat brain. Sidhu RS, et al. **Exp Neurol** 1997 Apr;144(2):400–5

Morphofunctional effects of moderate forebrain ischemia combined with short–term hypoxia in rats––protective effects of Cerebrolysin. Schwab M, et al. **Exp Toxicol Pathol** 1997 Feb;49(1–2):29–37

Differences in epinephrine levels in rat brains after administered morphine. Anasiewicz A, et al. **Folia Morphol (Warsz)** 1996;55(4):204–5

DNA fragmentation and ultrastructural changes in the brain of rabbits treated with vincristine. Muzylak M, et al. **Folia Neuropathol** 1996;34(3):129–35

Regional lipid peroxidation and protein oxidation in rat brain after hyperbaric oxygen exposure. Chavko M, et al. **Free Radic Biol Med** 1996;20(7):973–8

Neuroprotection by the metabolic antioxidant alpha–lipoic acid. Packer L, et al. **Free Radic Biol Med** 1997; 22(1–2):359–78 (215 ref.)

Brain Fos induction is a sensitive biomarker for the lowest observed neuroexcitatory effects of domoic acid. Peng YG, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):162–8

Neurotoxicity and pattern of acetylcholinesterase inhibition in the brain regions of rat by bromophos and ethylbromophos. Santhoshkumar P, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):23–30

Role of 5–HT1A autoreceptors in the mechanism of action of serotoninergic antidepressant drugs: recent findings from in vivo microdialysis studies. Gardier AM, et al. **Fundam Clin Pharmacol** 1996;10(1):16–27 (88 ref.)

Central serotonin level–dependent changes in body temperature following administration of tryptophan to pargyline– and harmaline–pretreated rats. Abdel–Fattah AF, et al. **Gen Pharmacol** 1997 Mar;28(3):405–9

Effects of 9–amino–1,2,3,4–tetrahydroacridine (THA) on ATP diphosphohydrolase (EC 3.6.1.5) and 5'–nucleotidase (EC 3.1.3.5) from rat brain synaptosomes. Bonan CD, et al. **Gen Pharmacol** 1997 May;28(5):761–6

Effect of the selective 5–HT receptor agonists 8–OHDPAT and DOI on behavior and brain biogenic amines of rats. Gaggi R, et al. **Gen Pharmacol** 1997 Apr;28(4):583–7

Modification of systemic and regional circulatory effects of intracerebroventricular administration of endothelin–1 by propranolol in anesthetized rats. Kumar A, et al. **Gen Pharmacol** 1996 Sep;27(6):1025–33

Time course of the changes in central nitric oxide synthase activity following chronic treatment with morphine in the mouse: reversal by naltrexone. Kumar S, et al. **Gen Pharmacol** 1997 Aug;29(2):223–7

Brain alpha 1–adrenoceptor in the cardiovascular responses to BHT–920 and phenylephrine. Ricci D, et al. **Gen Pharmacol** 1996 Mar;27(2):299–304

Induction of age pigment accumulation in the brain cells of young male rats through iron–injection into the cerebrospinal fluid. Zs.–Nagy I, et al. **Gerontology** 1995;41 Suppl 2:145–58

Activation of microglial and endothelial cells in the rat brain after treatment with interferon–gamma in vivo. Grau V, et al. **Glia** 1997 Mar;19(3):181–9

Sequestration of centrally administered insulin by the brain: effects of starvation, aluminum, and TNF–alpha. Cashion MF, et al. **Horm Behav** 1996 Sep;30(3):280–6

Brain organization in a reptile lacking sex chromosomes: effects of gonadectomy and exogenous testosterone. Crews D, et al. **Horm Behav** 1996 Dec;30(4):474–86

Allopregnanolone (THP) mediates anesthetic effects of progesterone in rat brain. Korneyev A, et al. **Horm Behav** 1996 Mar;30(1):37–43

Melatonin binding in the house sparrow song control system: sexual dimorphism and the effect of photoperiod. Whitfield–Rucker MG, et al. **Horm Behav** 1996 Dec; 30(4):528–37

Analogies between oxytocin systems of the uterus and brain. Caldwell JD, et al. **Horm Metab Res** 1996 Feb;28(2):65–74 (100 ref.)

Understanding drug addiction: implications for treatment [see comments] Leshner AI. **Hosp Pract (Off Ed)** 1996 Oct 15; 31(10):47–54, 57–9 (8 ref.). Comment in: Hosp Pract (Off Ed) 1997 Mar 15;32(3):41.

The effects of multiple low doses of organophosphates on target enzymes in brain and diaphragm in the mouse. Williams FM, et al. **Hum Exp Toxicol** 1997 Feb;16(2):67–71

Brain "ouabain" and angiotensin II in salt–sensitive hypertension in spontaneously hypertensive rats. Huang BS, et al. **Hypertension** 1996 Dec;28(6):1005–12

Antisense inhibition of the brain kallikrein–kinin system. Madeddu P, et al. **Hypertension** 1996 Dec;28(6):980–7

Acute effects of 1,1,1–trichloroethane inhalation on the human central nervous system. Laine A, et al. **Int Arch Occup Environ Health** 1996;69(1):53–61

Preclinical pharmacology of milnacipran. Briley M, et al. **Int Clin Psychopharmacol** 1996 Sep;11 Suppl 4:9–14 (24 ref.)

Noradrenergic modulation of central serotonergic neurotransmission: acute and long–term actions of mirtazapine [published erratum appears in Int Clin Psychopharmacol 1996 Jun;11(2):153] Haddjeri N, et al. **Int Clin Psychopharmacol** 1995 Dec;10 Suppl 4:11–7 (30 ref.)

Two actions are better than one: avoiding self–inhibition of serotonergic neurones enhances the effects of serotonin uptake inhibitors. Romero L, et al. **Int Clin Psychopharmacol** 1996 Sep;11 Suppl 4:1–8 (50 ref.)

Amisulpride: from animal pharmacology to therapeutic action. Scatton B, et al. **Int Clin Psychopharmacol** 1997 May;12 Suppl 2:S29–36 (45 ref.)

Neurobiological correlates of acute neuroleptic treatment. Sedvall GC. **Int Clin Psychopharmacol** 1996 May;11 Suppl 2:41–6 (20 ref.)

Methylazoxymethanol–induced micrencephaly in the brown Norway strain: behavior and brain weight. Ferguson SA, et al. **Int J Dev Neurosci** 1997 Feb;15(1):75–86

Effect of thiocyanate on microtubule assembly in rat brain during postnatal development. Lakshmy R, et al. **Int J Dev Neurosci** 1997 Feb;15(1):87–94

Retardation of the age–related increase in spontaneous cortical spike–wave discharges (SWD) in rats after a 28–day inhalation (SWD) in rats after a 28–day inhalation exposure to an industrial solvent, pseudocumene (1,2,4–trimethylbenzene). Gralewicz S, et al. **Int J Occup Med Environ Health** 1997;10(2):213–22

An experimental study on the neurotolerability of gadobenate dimeglumine in a rat model of focal brain ischemia. La Noce A, et al. **Invest Radiol** 1996 Sep;31(9):550–5

Effects of carbon monoxide on the brain may be mediated by nitric oxide. Meilin S, et al. **J Appl Physiol** 1996 Sep; 81(3):1078–83

Acutely administered melatonin reduces oxidative damage in lung and brain induced by hyperbaric oxygen. Pablos MI, et al. **J Appl Physiol** 1997 Aug;83(2):354–8

Neurotoxic effects of gestational administration of low–dose lead acetate. Antonio MT, et al. **J Appl Toxicol** 1996 Sep–Oct;16(5):431–6

Comparative acute toxicity and primary irritancy of the ethylidene and vinyl isomers of norbornene. Ballantyne B, et al. **J Appl Toxicol** 1997 Jul–Aug;17(4):211–21

Neurotoxicological evaluation of ethyl tertiary–butyl ether following subchronic (90–day) inhalation in the Fischer 344 rat. Dorman DC, et al. **J Appl Toxicol** 1997 Jul–Aug; 17(4):235–42

Ontogenic profile of brain lipids following perinatal exposure to cadmium. Gupta A, et al. **J Appl Toxicol** 1996 May–Jun; 16(3):227–33

Effect of topically applied sulphur mustard on antioxidant enzymes in blood cells and body tissues of rats. Husain K, et al. **J Appl Toxicol** 1996 May–Jun;16(3):245–8

Cadmium induced alterations in somatosensory evoked potentials. Agar A, et al. **J Basic Clin Physiol Pharmacol** 1996;7(2):137–49

Susceptibility of the injured rat brain to CNS oxygen toxicity. Kerem D. **J Basic Clin Physiol Pharmacol** 1996;7(1):11–22

Chronic fenfluramine treatment of rats with different ages: effects on brain oxidative stress–related parameters. D'Almeida V, et al. **J Biochem Toxicol** 1996;11(4):197–201

Purification of a fatty acid–stimulated protein–serine/threonine phosphatase from bovine brain and its identification as a homolog of protein phosphatase 5. Skinner J, et al. **J Biol Chem** 1997 Sep 5;272(36):22464–71

DNA fragmentation and Prolonged expression of c–fos, c–jun, and hsp70 in kainic acid–induced neuronal cell death in transgenic mice overexpressing human CuZn–superoxide dismutase. Kondo T, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):241–56

Metyrapone, an inhibitor of glucocorticoid production, reduces brain injury induced by focal and global ischemia and seizures. Smith–Swintosky VL, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):585–98

Methylphenidate slows right hemisphere processing in children with attention–deficit/hyperactivity disorder. Campbell L, et al. **J Child Adolesc Psychopharmacol** 1996 Winter;6(4):229–39

Central nervous system toxicity in a patient receiving continuous intrapleural bupivacaine. Kreitzer JM, et al. **J Clin Anesth** 1996 Dec;8(8):666–8

Vasoactive intestinal peptide prevents excitotoxic cell death in the murine developing brain. Gressens P, et al. **J Clin Invest** 1997 Jul 15;100(2):390–7

The application of neuroimaging techniques to drug development. Tamminga CA, et al. **J Clin Psychiatry** 1997; 58 Suppl 10:3–6 (19 ref.)

Pharmacology of antidepressants. Frazer A. **J Clin Psychopharmacol** 1997 Apr;17(2):2S–18S (158 ref.)

Intravenous lipopolysaccharide induces cyclooxygenase 2–like immunoreactivity in rat brain perivascular microglia and meningeal macrophages. Elmquist JK, et al. **J Comp Neurol** 1997 May 5;381(2):119–29

Excitotoxic neuronal death in the immature brain is an apoptosis–necrosis morphological continuum. Portera–Cailliau C, et al. **J Comp Neurol** 1997 Feb 3; 378(1):70–87

Non–NMDA and NMDA receptor–mediated excitotoxic neuronal deaths in adult brain are morphologically distinct: further evidence for an apoptosis–necrosis continuum. Portera–Cailliau C, et al. **J Comp Neurol** 1997 Feb 3; 378(1):88–104

Neurogenesis in neonatal rat brain is regulated by peripheral injection of basic fibroblast growth factor (bFGF). Tao Y, et al. **J Comp Neurol** 1996 Dec 23;376(4):653–63

A 3–year follow–up of the intellectual and academic functioning of children receiving central nervous system prophylactic chemotherapy for leukemia. Brown RT, et al. **J Dev Behav Pediatr** 1996 Dec;17(6):392–8

The effect of dietary selenium on lead neurotoxicity. Nehru B, et al. **J Environ Pathol Toxicol Oncol** 1997;16(1):47–50

Mercuric chloride–induced reactive oxygen species and its effect on antioxidant enzymes in different regions of rat brain. Hussain S, et al. **J Environ Sci Health B** 1997 May; 32(3):395–409

Effect of Hachimi–jio–gan on scopolamine–induced memory impairment and on acetylcholine content in rat brain. Hirokawa S, et al. **J Ethnopharmacol** 1996 Feb;50(2):77–84

L–ornithine vs. L–ornithine–L–aspartate as a treatment for hyperammonemia–induced encephalopathy in rats. Vogels BA, et al. **J Hepatol** 1997 Jan;26(1):174–82

Prenatal exposure to sodium bromide affects the postnatal growth and brain development. Disse M, et al. **J Hirnforsch** 1996;37(1):127–34

Neuroprotective effects of thiamine–megadoses after long–term ethanol application in the rat brain. A structural investigation of hippocampal CA1 pyramidal and cerebellar Purkinje neurons. Wenisch S, et al. **J Hirnforsch** 1996; 37(3):377–87

The angiotensin converting enzyme inhibitors fosinopril and enalapril differ in their central nervous effects in humans. Derad I, et al. **J Hypertens** 1996 Nov;14(11):1309–15

Centrally acting antihypertensives: a renaissance of interest. Mechanisms and haemodynamics. van Zwieten PA. **J Hypertens Suppl** 1997 Jan;15(1):S3–8 (56 ref.)

Astrocyte–specific but not neuron–specific transmembrane TNF triggers inflammation and degeneration in the central nervous system of transgenic mice. Akassoglou K, et al. **J Immunol** 1997 Jan 1;158(1):438–45

Effect of ascorbate and cysteine on the 3,4–methylenedioxymethamphetamine–induced depletion of brain serotonin. Gudelsky GA. **J Neural Transm** 1996; 103(12):1397–404

Mechanism of 6–hydroxydopamine neurotoxicity. Glinka Y, et al. **J Neural Transm Suppl** 1997;50:55–66 (41 ref.)

Slow accumulation of psychotropic substances in the human brain. Relationship to therapeutic latency of neuroleptic and antidepressant drugs? Kornhuber J, et al. **J Neural Transm Suppl** 1995;46:315–23 (34 ref.)

Assessment of neurotoxicity and "neuroprotection". O'Byrne M, et al. **J Neural Transm Suppl** 1997;50:153–64 (51 ref.)

Nicotinic receptor subunits alpha 3, alpha 4, and beta 2 and high affinity nicotine binding sites are expressed by P19 embryonal cells. Cauley K, et al. **J Neurobiol** 1996 Jun; 30(2):303–14

Regional differences in gene expression for calcium activated neutral proteases (calpains) and their endogenous inhibitor calpastatin in mouse brain and spinal cord. Li J, et al. **J Neurobiol** 1996 Jun;30(2):177–91

Kainic acid and decorticating lesions stimulate the synthesis of C1q protein in adult rat brain. Goldsmith SK, et al. **J Neurochem** 1997 May;68(5):2046–52

Intracerebral NMDA injection stimulates production of interleukin–1 beta in perinatal rat brain. Hagan P, et al. **J Neurochem** 1996 Nov;67(5):2215–8

p53–knockout mice are protected against the long–term effects of methamphetamine on dopaminergic terminals and cell bodies. Hirata H, et al. **J Neurochem** 1997 Aug; 69(2):780–90

Effect of cocaine on the histaminergic neuron system in the rat brain. Ito C, et al. **J Neurochem** 1997 Aug;69(2):875–8

5–hydroxy–3–ethylamino–2–oxindole is not formed in rat brain following a neurotoxic dose of methamphetamine: evidence that methamphetamine does not induce the hydroxyl radical–mediated oxidation of serotonin. Yang Z, et al. **J Neurochem** 1997 May;68(5):1929–41

Extracellular space and membrane changes in brain owing to different alkali metal buffers. Schultz RL, et al. **J Neurocytol** 1973 Sep;2(3):289–303

Brain and pituitary melatonin receptors in male rat during post–natal and pubertal development and the effect of pinealectomy and testosterone manipulation. Zitouni M, et al. **J Neuroendocrinol** 1996 Aug;8(8):571–7

Experimental benznidazole encephalopathy: II. Electroencephalographic and morphological alterations. Flores–Vieira CL, et al. **J Neurol Sci** 1997 Sep 1; 150(1):13–25

Nimodipine improves brain energy metabolism and blood rheology during ischemia and reperfusion in the gerbil brain. Ichihara S, et al. **J Neurol Sci** 1996 Dec; 144(1–2):84–90

Imaging the induction and spread of seizure activity in the isolated brain of the guinea pig: the roles of GABA and glutamate receptors. Federico P, et al. **J Neurophysiol** 1996 Nov;76(5):3471–92

Maternal cocaine treatment alters dynorphin and enkephalin mRNA expression in brains of fetal rhesus macaques. Chai L, et al. **J Neurosci** 1997 Feb 1;17(3):1112–21

Nerve growth factor and neurotrophin-3 differentially regulate the proliferation and survival of developing rat brain oligodendrocytes. Cohen RI, et al. **J Neurosci** 1996 Oct 15;16(20):6433–42

Antipyretic role of endogenous melanocortins mediated by central melanocortin receptors during endotoxin-induced fever. Huang QH, et al. **J Neurosci** 1997 May 1; 17(9):3343–51

Epidermal growth factor and fibroblast growth factor-2 have different effects on neural progenitors in the adult rat brain. Kuhn HG, et al. **J Neurosci** 1997 Aug 1;17(15):5820–9

Phenotypic alteration of astrocytes induced by ciliary neurotrophic factor in the intact adult brain, As revealed by adenovirus-mediated gene transfer. Lisovoski F, et al. **J Neurosci** 1997 Oct 1;17(19):7228–36

Absence of a persistently elevated 37 kDa fos-related antigen and AP-1-like DNA-binding activity in the brains of kainic acid-treated fosB null mice. Mandelzys A, et al. **J Neurosci** 1997 Jul 15;17(14):5407–15

Specific induction of protein kinase C delta subspecies after transient middle cerebral artery occlusion in the rat brain: inhibition by MK-801. Miettinen S, et al. **J Neurosci** 1996 Oct 1;16(19):6236–45

alpha-MSH modulates local and circulating tumor necrosis factor-alpha in experimental brain inflammation. Rajora N, et al. **J Neurosci** 1997 Mar 15;17(6):2181–6

Antisense oligonucleotides induce functional deletion of ligand gated ion channels in cultured neurons and brain explants. Brussaard AB. **J Neurosci Methods** 1997 Jan; 71(1):55–64 (21 ref.)

NMDA-NR1 receptor subunit mRNA expression in rat brain after 6-OH-dopamine induced lesions: a non-isotopic in situ hybridization study. Andrés ME, et al. **J Neurosci Res** 1996 Nov 1;46(3):375–84

Nuclear disintegration as a leading step of glutamate excitotoxicity in brain neurons. Ikeda J, et al. **J Neurosci Res** 1996 Mar 1;43(5):613–22

Brain synaptosomes display a diadenosine tetraphosphate (Ap4A)-mediated Ca2+ influx distinct from ATP-mediated influx. Pivorun EB, et al. **J Neurosci Res** 1996 Jun 1;44(5):478–89

Demyelination induced by protein kinase C-activating tumor promoters in aggregating brain cell cultures. Pouly S, et al. **J Neurosci Res** 1997 Jul 15;49(2):121–32

High-dose anabolic androgenic steroids modulate concentrations of nerve growth factor and expression of its low affinity receptor (p75-NGFr) in male rat brain. Tirassa P, et al. **J Neurosci Res** 1997 Jan 15;47(2):198–207

Effects of perioperative indomethacin on intracranial pressure, cerebral blood flow, and cerebral metabolism in patients subjected to craniotomy for cerebral tumors. Bundgaard H, et al. **J Neurosurg Anesthesiol** 1996 Oct; 8(4):273–9

Effect of haloperidol dose on iodine-123-IBZM brain SPECT imaging in schizophrenic patients. Vallabhajosula S, et al. **J Nucl Med** 1997 Feb;38(2):203–7

Gender affects rats' central nervous system histaminergic responses to dietary manipulation. Mercer LP, et al. **J Nutr** 1996 Dec;126(12):3128–35

Arachidonic acid offsets the effects on mouse brain and behavior of a diet with a low (n-6):(n-3) ratio and very high levels of docosahexaenoic acid. Wainwright PE, et al. **J Nutr** 1997 Jan;127(1):184–93

Digital fluorescence imaging of elementary steps of neurosteroid synthesis in rat brain glial cells. Kimoto T, et al. **J Pharm Biomed Anal** 1997 Jun;15(9-10):1231–40

Effects of amitriptyline on rat plasma and brain content of monoamine precursors and other large neutral amino acids. Eriksson T, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):1007–14

Acetylcholinesterase inhibition and protection by dizocilpine (MK-801) enantiomers. Galli A, et al. **J Pharm Pharmacol** 1996 Jan;48(1):71–6

Neuromuscular and microvascular changes associated with chronic administration of an extract of Teucrium stocksianum in mice. Tanira MO, et al. **J Pharm Pharmacol** 1997 Mar;49(3):301–4

In vivo relationships between the cerebral pharmacokinetics and pharmacodynamics of thiopentone in sheep after short-term administration. Upton RN, et al. **J Pharmacokinet Biopharm** 1996 Feb;24(1):1–18

Multidrug resistance-reversing agents increase vinblastine distribution in normal tissues expressing the P-glycoprotein but do not enhance drug penetration in brain and testis. Arboix M, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1226–30

RJR-2403: a nicotinic agonist with CNS selectivity I. In vitro characterization. Bencherif M, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1413–21

Studies on the tight-binding nature of tolcapone inhibition of soluble and membrane-bound rat brain catechol-O-methyltransferase. Borges N, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):812–7

Effect of prenatal fluoxetine (Prozac) exposure on brain serotonin neurons in prepubescent and adult male rat offspring. Cabrera-Vera TM, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):138–45

Effect of tachykinin receptor inhibition in the brain on cardiovascular and behavioral responses to stress. Culman J, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):238–46

Intracranial self-stimulation in rats: sensitization to an opioid antagonist following acute or chronic treatment with mu opioid agonists. Easterling KW, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):188–99

Effects of repeated administration of 3,4-methylenedioxymethamphetamine on 5-hydroxytryptamine neuronal activity and release in the rat brain in vivo. Gartside SE, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):277–83

The central cholinergic system has a role in the antinociception induced in rodents and guinea pigs by the antimigraine drug sumatriptan. Ghelardini C, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):884–90

Nitric oxide- and superoxide-mediated toxicity in cerebral endothelial cells. Gobbel GT, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1600–7

Modulation of cocaine- and methamphetamine-induced behavioral sensitization by inhibition of brain nitric oxide synthase. Itzhak Y. **J Pharmacol Exp Ther** 1997 Aug; 282(2):521–7

Enhancement of acetylcholine release by SA4503, a novel sigma 1 receptor agonist, in the rat brain. Kobayashi T, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):106–13

Selective serotonin reuptake inhibitors dissociate fenfluramine's anorectic and neurotoxic effects: importance of dose, species and drug. McCann UD, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1487–98

Neuroleptic-induced mitochondrial enzyme alterations in the rat brain. Prince JA, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):261–7

Neurotoxic and pharmacologic studies on enantiomers of the N-methylated analog of cathinone (methcathinone): a new drug of abuse. Sparago M, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):1043–52

Differential muscarinic receptor binding of acetylcholinesterase inhibitors in rat brain, human brain and Chinese hamster ovary cells expressing human receptors. Van Den Beukel I, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1113–9

The effect of central angiotensin II receptor blockade on interleukin-1beta- and prostaglandin E-induced fevers in rats: possible involvement of brain angiotensin II receptor in fever induction. Watanabe T, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):873–81

Central nervous system pharmacologic effect in conscious rats after intravenous injection of a biotinylated vasoactive intestinal peptide analog coupled to a blood-brain barrier drug delivery system. Wu D, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):77–83

Corticotropin-releasing factor and type 1 corticotropin-releasing factor receptor messenger RNAs in rat brain and pituitary during "binge"-pattern cocaine administration and chronic withdrawal. Zhou Y, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):351–8

In vitro and in vivo protection against kainate-induced excitotoxicity by melatonin. Giusti P, et al. **J Pineal Res** 1996 May;20(4):226–31

Melatonin and N-tert-butyl-alpha-phenylnitrone block 60-Hz magnetic field-induced DNA single and double strand breaks in rat brain cells. Lai H, et al. **J Pineal Res** 1997 Apr;22(3):152–62

Melatonin attenuates L-cysteine-induced seizures and lipid peroxidation in the brain of mice. Yamamoto H, et al. **J Pineal Res** 1996 Sep;21(2):108–13

Acute effect of 17 beta-estradiol and lithium on ovariectomized rat brain biogenic amines metabolism. Morissette M, et al. **J Psychiatr Res** 1996 Mar-Apr; 30(2):95–107

Review the role of dopamine D4 receptors in schizophrenia and antipsychotic action. Sanyal S, et al. **J Psychiatr Res** 1997 Mar-Apr;31(2):219–32 (85 ref.)

Brain 5-hydroxytryptamine uptake sites labeled with [3H]paroxetine in antidepressant drug-treated depressed suicide victims and controls. Lawrence KM, et al. **J Psychiatry Neurosci** 1997 May;22(3):185–91

Dexamethasone and nitric oxide synthase gene expression in brain. Suzuki E, et al. **J Psychiatry Neurosci** 1997 Mar; 22(2):105–10

Antisense oligonucleotides in psychopharmacology and behaviour: promises and pitfalls. Robinson ES, et al. **J Psychopharmacol (Oxf)** 1997;11(3):259–69 (100 ref.)

Effects of androgen on brain and pituitary androgen receptors and LH secretion of male guinea pigs. Choate JV, et al. **J Steroid Biochem Mol Biol** 1996 Nov;59(3-4):315–22

Compared effects of extracellular K+ ions and soman, a neurotoxic, on cerebral astrocyte morphology. An in vitro study. Grange-Messent V, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):151–9

Polycyclic aromatic hydrocarbon-DNA adducts in beluga whales from the Arctic. Mathieu A, et al. **J Toxicol Environ Health** 1997 May;51(1):1–4

Potentiation of organophosphorus compound-induced delayed neurotoxicity (OPIDN) in the central and peripheral nervous system of the adult hen: distribution of axonal lesions. Randall JC, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):571–90

Aluminum effect on lipid peroxidation and on the activities of superoxide dismutase and catalase in the cerebral hemisphere and liver of young chicks. Swain C, et al. **J Trace Elem Med Biol** 1997 Jun;11(2):77–82

Brain serotonin neurotoxicity and primary pulmonary hypertension from fenfluramine and dexfenfluramine. A systematic review of the evidence. McCann UD, et al. **JAMA** 1997 Aug 27;278(8):666–72 (107 ref.)

Effect of TA-0910, a novel thyrotropin-releasing hormone analog, on in vivo acetylcholine release and turnover in rat brain. Kinoshita K, et al. **Jpn J Pharmacol** 1996 Jun; 71(2):139–45

The effects of atrial natriuretic peptide (ANP1-28) on corticotropin releasing factor in brain of rats. Biró E, et al. **Life Sci** 1996;59(16):1351–6

Effects of triamcinolone on brain and cerebrospinal fluid apolipoprotein E levels in rats. Chiba H, et al. **Life Sci** 1997;60(20):1757–61

The effects of brain and C-type natriuretic peptides on corticotropin-releasing factor in brain of rats. Gardi J, et al. **Life Sci** 1997;60(23):2111–7

Regionally specific effects of diazepam on brain serotonin metabolism in rats: sustained effects following repeated administration. Haleem DJ, et al. **Life Sci** 1996; 59(15):PL239–46

Reduced anesthetic requirements in aged rats: association with altered brain synaptic plasma membrane Ca(2+)-ATPase pump and phospholipid methyltransferase I activities. Horn JL, et al. **Life Sci** 1996;59(17):PL263–8

AM630 is a competitive cannabinoid receptor antagonist in the guinea pig brain. Hosohata K, et al. **Life Sci** 1997; 61(9):PL115–8

Biochemical synthesis, purification and preliminary pharmacological evaluation of normorphine-3-glucuronide. Smith GD, et al. **Life Sci** 1997;61(2):95–104

Binding of [3H]2-(2-benzofuranyl)-2-imidazoline (BFI) to human brain: potentiation by tranylcypromine. Wiest SA, et al. **Life Sci** 1997;60(9):605–15

Influence of gender and brain region on neurosteroid modulation of GABA responses in rats. Wilson MA, et al. **Life Sci** 1997;60(19):1679–91

An analysis of the intracerebral ability to eliminate a nitroxide radical in the rat after administration of idebenone by an in vivo rapid scan electron spin resonance spectrometer. Yokoyama H, et al. **MAGMA** 1996 Sep-Dec;4(3-4):247–50

Mapping drug-induced changes in cerebral R2* by Multiple Gradient Recalled Echo functional MRI. Chen Q, et al. **Magn Reson Imaging** 1996;14(5):469–76

Functional echoplanar brain imaging correlates of amphetamine administration to normal subjects and subjects with the narcoleptic syndrome. Howard RJ, et al. **Magn Reson Imaging** 1996;14(9):1013–6

Effects of vinconate on age-related alterations in [3H]MK-801, [3H]glycine, sodium-dependent D-[3H]aspartate, [3H]FK-506 and [3H]PN200-110 binding in rats. Araki T, et al. **Mech Ageing Dev** 1997 Apr; 95(1-2):13–29

Metabolism of methylmercury in the brain and its toxicological significance. Mottet NK, et al. **Met Ions Biol Syst** 1997;34:371–403 (202 ref.)

Effects of anapsos on the activity of the enzyme Cu-Zn-superoxide dismutase in an animal model of neuronal degeneration. Fernández-Novoa L, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar;19(2):99–106

Effects of theophylline in p-chlorophenylalanine-treated mice in a light/dark test. Imaizumi M, et al. **Methods Find Exp Clin Pharmacol** 1996 Oct;18(8):513–20

Regional alterations in calcium homeostasis in the primate brain following chronic aluminium exposure. Sarin S, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):95–100

Effects of chronic infusion of nerve growth factor (NGF) in AF64A-lesioned rats. Fernández CI, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1-3):175–9

Morphochemical changes in brain structures in the course of chronic haloperidol treatment and the correction of these changes with tuftsin. Gershtein LM, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):213–22

Differential regulation of corticotropin-releasing factor1 receptor expression by stress and agonist treatments in brain and cultured cells. Iredale PA, et al. **Mol Pharmacol** 1996 Nov;50(5):1103–10

Where does alcohol act in the brain? [news] Crabbe JC. **Mol Psychiatry** 1997 Jan;2(1):17–20

D3 receptor binding in human brain during cocaine overdose [comment] Mash DC. **Mol Psychiatry** 1997 Jan;2(1):5–6. Comment on: Mol Psychiatry 1997 Jan;2(1):7–8.

Differential sensitivity of c-Fos expression in hippocampus and other brain regions to moderate and low doses of alcohol. Ryabinin AE, et al. **Mol Psychiatry** 1997 Jan; 2(1):32–43

Effects of central dopaminergic stimulation by apomorphine on swallowing disorders in Parkinson's disease. Tison F, et al. **Mov Disord** 1996 Nov;11(6):729–32

Less stress--more pressure? [letter; comment] Fishman RA. **Nat Med** 1997 Apr;3(4):366. Comment on: Nat Med 1996 Dec;2(12):1307–8. Comment on: Nat Med 1996 Dec;2(12):1382–5.

Smoking...harmful to the brain [news; comment] [see

comments] Iversen LL. **Nature** 1996 Jul 18;382(6588):206–7 . Comment on: Nature 1996 Jul 18;382(6588):255–7. Comment in: Nature 1996 Nov 7;384(6604):18–9.

Pharmacological properties of Ca2+–activated K+ currents of ramified murine brain macrophages. Eder C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):233–9

Different molecular forms of cholecystokinin and CCKB receptor binding in the rat brain after chronic antidepressant treatment. Harro J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):57–63

Modulation of immunoreactive protein kinase C–alpha and beta isoforms and G proteins by acute and chronic treatments with morphine and other opiate drugs in rat brain. Ventayol P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):491–500

Effects of the putative P-type calcium channel blocker, R,R–(–)–daurisoline on neurotransmitter release. Waldmeier PC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 352(6):670–8

Suppression of pentylenetetrazol–induced seizures by carnitine in mice. Yu Z, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):545–9

Long–term treatment of male F344 rats with deprenyl: assessment of effects on longevity, behavior, and brain function. Bickford PC, et al. **Neurobiol Aging** 1997 May–Jun;18(3):309–18

The functional relevance of medial parabrachial nucleus in intragastric sodium chloride–induced short–term (concurrent) aversion learning. Agüero A, et al. **Neurobiol Learn Mem** 1997 Mar;67(2):161–6

Response of rat cerebral somatostatinergic system to a high ammonia diet. Boyano–Adánez MC, et al. **Neurochem Int** 1996 Nov;29(5):469–76

Putative roles for the inducible transcription factor c–fos in the central nervous system: studies with antisense oligonucleotides. Chiasson BJ, et al. **Neurochem Int** 1997 Sep;31(3):459–75 (136 ref.)

2,3–Butanedione inactivates the [3H]nitrendipine binding sites, whereas diethylpyrocarbonate does not. Costa B, et al. **Neurochem Int** 1996 Dec;29(6):623–7

The use of in vivo antisense oligonucleotide technology for the investigation of brain GABA receptors. Karle J, et al. **Neurochem Int** 1997 Sep;31(3):437–46

Critical issues in the antisense inhibition of brain gene expression in vivo: experiences targetting the 5–HT1A receptor. Le Corre SM, et al. **Neurochem Int** 1997 Sep; 31(3):349–62

Effects of imidazolines on noradrenaline release in brain: an investigation into their relationship to imidazoline, alpha 2 and H3 receptors. Schlicker E, et al. **Neurochem Int** 1997 Jan;30(1):73–83

Systemic administration of defined extracts from Withania somnifera (Indian Ginseng) and Shilajit differentially affects cholinergic but not glutamatergic and GABAergic markers in rat brain. Schliebs R, et al. **Neurochem Int** 1997 Feb; 30(2):181–90

Modulation by both diphenyliodonium and diphenyleneiodonium of [3H]MK–801 binding to rat brain synaptic membranes. Shuto M, et al. **Neurochem Int** 1997 Jul;31(1):73–82

The effect of quinolinate on rat brain lipid peroxidation is dependent on iron. Stípek S, et al. **Neurochem Int** 1997 Feb;30(2):233–7

Phencyclidine–induced expression of c–Fos–like immunoreactivity in mouse brain regions. Sugita S, et al. **Neurochem Int** 1996 May–Jun;28(5–6):545–50

Effects of ethanol on the incorporation of free fatty acids into cerebral membrane phospholipids. Zheng Z, et al. **Neurochem Int** 1996 May–Jun;28(5–6):551–5

Expression of the ubiquitin genes in brain of normal and Fe/Dextran injected rats. Adamo AM, et al. **Neurochem Res** 1997 Apr;22(4):345–50

Effects of Psychotria colorata alkaloids in brain opioid system. Amador TA, et al. **Neurochem Res** 1996 Jan; 21(1):97–102

The inhibitory effects of N omega–nitro–L–arginine methyl ester on nitric oxide synthase activity vary among brain regions in vivo but not in vitro. Ayers NA, et al. **Neurochem Res** 1997 Jan;22(1):81–6

Further studies on the mechanism of action of substance P in rat brain, involving selective phosphatidylinositol hydrolysis. Catalán RE, et al. **Neurochem Res** 1995 Oct; 20(10):1147–53

Effect of ethanol on nuclear casein kinase II activity in brain. Haviryaji KS, et al. **Neurochem Res** 1997 Jun;22(6):699–704

NMDA excitotoxicity and free radical generation in rat brain homogenates: application of a chemiluminescence assay. Küçükkaya B, et al. **Neurochem Res** 1996 Dec; 21(12):1535–8

Inhibition of rat brain protein kinase C by lipid soluble psychotropics. Kumar R, et al. **Neurochem Res** 1997 Jan; 22(1):1–10

Increased acetylcholinesterase activity in selected regions of rat brain after chronic (–)–deprenyl administration. Lakshmana MK, et al. **Neurochem Res** 1996 Oct; 21(10):1209–12

Effects of excitatory amino acids on cerebral oxygen consumption and blood flow in rat. Lu X, et al. **Neurochem Res** 1997 Jun;22(6):705–11

Serotonin synthesis increased in terminals four days after reserpine treatment: an autoradiographic study in rat brain. Mück–Seler D, et al. **Neurochem Res** 1997 Jan;22(1):11–6

Simultaneous measurement of biogenic amines and their metabolites in rat brain regions after acute administration of and abrupt withdrawal from butorphanol or morphine. Wakabayashi H, et al. **Neurochem Res** 1995 Oct; 20(10):1179–85

Effect of alpha–ketoisocaproate and leucine on the in vivo oxidation of glutamate and glutamine in the rat brain. Zielke HR, et al. **Neurochem Res** 1997 Sep;22(9):1159–64

In vivo protection against NMDA–induced neurodegeneration by MK–801 and nimodipine: combined therapy and temporal course of protection. Stuiver BT, et al. **Neurodegeneration** 1996 Jun;5(2):153–9

Effect of continuous intravenous injection of interleukin–6 and pretreatment with cyclooxygenase inhibitor on brain c–fos expression in the rat. Niimi M, et al. **Neuroendocrinology** 1997 Jul;66(1):47–53

Sex differences in androgen responsiveness in the rat brain: regional differences in the induction of aromatase activity. Roselli CE, et al. **Neuroendocrinology** 1996 Aug; 64(2):139–45

Interleukin–1 receptor accessory protein transcripts in the brain and spleen: kinetics after peripheral administration of bacterial lipopolysaccharide in mice. Gabellec MM, et al. **Neuroimmunomodulation** 1996 Sep–Oct;3(5):304–9

Effect of central and continuous intravenous injection of interleukin–1 beta on brain c–fos expression in the rat: involvement of prostaglandins. Niimi M, et al. **Neuroimmunomodulation** 1996 Mar–Jun;3(2–3):87–92

In vivo induction of interleukin–1 bioactivity in brain tissue after intracerebral infusion of native gp 120 and gp 160. Quan N, et al. **Neuroimmunomodulation** 1996 Jan–Feb; 3(1):56–61

Brain pH responses to acetazolamide and hypercapnia in cats. Kohshi K, et al. **Neurol Med Chir (Tokyo)** 1997 Apr; 37(4):313–8; discussion 318–9

Topical application of fibrin adhesive in the rat brain: effects on different cellular elements of the wound. Ghulam Muhammad AK, et al. **Neurol Res** 1997 Feb;19(1):84–8

Evidence for peroxidative damage by nitric oxide in experimental chronic cerebral vasospasm. Medele RJ, et al. **Neurol Res** 1996 Jun;18(3):277–80

Effect of the combination of cisplatinum and radiation in the rabbit's brain. Schiffer J, et al. **Neurol Res** 1996 Oct; 18(5):454–6

Effect of high simple dose of cisplatinum and of radiation on the brain of rabbit. Walach N, et al. **Neurol Res** 1997 Apr;19(2):216–8

A field potential analysis on the effects of lamotrigine, GP 47779, and felbamate in neocortical slices. Calabresi P, et al. **Neurology** 1996 Aug;47(2):557–62

P300 abnormalities in long–time survivors of acute lymphoblastic leukemia in childhood––side effects of CNS prophylaxis? Uberall MA, et al. **Neuropediatrics** 1996 Jun; 27(3):130–5

The effects of single and repeated morphine administration on the level of thyrotropin–releasing hormone and its receptors in the rat brain. Jaworska–Feil L, et al. **Neuropeptides** 1995 Dec;29(6):343–9

Regional changes in brain dopamine utilization during status epilepticus in the rat induced by systemic pilocarpine and intrahippocampal carbachol. Alam AM, et al. **Neuropharmacology** 1996 Feb;35(2):159–67

The beta 1 sodium channel subunit modifies the interactions of neurotoxins and local anesthetics with the rat brain IIA alpha sodium channel in isolated membranes but not in intact cells. Bonhaus DW, et al. **Neuropharmacology** 1996 May;35(5):605–13

Effect of p–chlorophenylalanine at moderate dosage on 5–HT and 5–HIAA concentrations in brain regions of control and p–chloroamphetamine treated rats. Datla KP, et al. **Neuropharmacology** 1996 Mar;35(3):315–20

Modification of the characteristics of dopamine transporter in brain regions and spinal cord of morphine tolerant and abstinent rats. Gudehithlu KP, et al. **Neuropharmacology** 1996 Feb;35(2):169–74

The pharmacology of adenylyl cyclase modulation by GABAB receptors in rat brain slices. Knight AR, et al. **Neuropharmacology** 1996 Jun;35(6):703–12

Benzodiazepine site pharmacokinetic/pharmacodynamic quantification in man: direct measurement of drug occupancy and effects on the human brain in vivo. Malizia AL, et al. **Neuropharmacology** 1996;35(9–10):1483–91

Chronic electroconvulsive shock enhances 5–HT2 receptor–mediated head shakes but not brain C–fos induction. Moorman JM, et al. **Neuropharmacology** 1996 Mar;35(3):303–13

TNF alpha mimics the endocrine but not the thermoregulatory responses of bacterial lipopolysaccharide (LPS): correlation with FOS–expression in the brain. Tolchard S, et al. **Neuropharmacology** 1996 Mar;35(3):243–8

Biphenyl–derivatives of 2–amino–7–phosphono–heptanoic acid, a novel class of potent competitive N–methyl–D–aspartate receptor antagonists––II. Pharmacological characterization in vivo. Urwyler S, et al. **Neuropharmacology** 1996 Jun;35(6):655–69

Indeloxazine hydrochloride improves impairment of passive avoidance performance after fluid percussion brain injury in rats. Yamaguchi T, et al. **Neuropharmacology** 1996 Mar; 35(3):329–36

Haloperidol inhibits neuronal nitric oxide synthase activity by preventing electron transfer. Iwahashi K, et al. **Neuropsychobiology** 1996;33(2):76–9

Alteration in dopaminergic function in abstinent alcoholics. Marchesi C, et al. **Neuropsychobiology** 1997;36(1):1–4

Effects of chronic ethanol treatment on inositol 1,4,5–trisphosphate receptors and inositol 1,3,4,5–tetrakisphosphate receptors in rat brain. Saito H, et al. **Neuropsychobiology** 1996;33(2):60–5

Brain extracellular quinolinic acid in chronic experimental hepatic encephalopathy as assessed by in vivo microdialysis: acute effects of L–tryptophan. Bergqvist PB, et al. **Neuropsychopharmacology** 1996 Oct;15(4):382–9

Electrophysiological actions of neuropeptide Y and its analogs: new measures for anxiolytic therapy? Ehlers CL, et al. **Neuropsychopharmacology** 1997 Jul;17(1):34–43

Effect of pindolol on the function of pre– and postsynaptic 5–HT1A receptors: in vivo microdialysis and electrophysiological studies in the rat brain [published erratum appears in Neuropsychopharmacology 1997 Jan;16(1):91] Romero L, et al. **Neuropsychopharmacology** 1996 Oct;15(4):349–60

Inhibition of N–acetylaspartate production: implications for 1H MRS studies in vivo. Bates TE, et al. **Neuroreport** 1996 May 31;7(8):1397–400

Interleukin–6 affects scopolamine–induced amnesia, but not brain amino acid levels in mice. Bianchi M, et al. **Neuroreport** 1997 May 6;8(7):1775–8

Mu and delta opioid receptor gene expression after chronic treatment with opioid agonist. Buzas B, et al. **Neuroreport** 1996 Jun 17;7(9):1505–8

Intracerebral tetracycline–dependent regulation of gene expression in grafts of neural precursors. Corti O, et al. **Neuroreport** 1996 Jul 8;7(10):1655–9

Basic fibroblast growth factor modulates in vitro differentiation of human fetal microglia. Di Pucchio T, et al. **Neuroreport** 1996 Nov 4;7(15–17):2813–7

Antisense oligodeoxynucleotide treatment to the brain cannabinoid receptor inhibits antinociception. Edsall SA, et al. **Neuroreport** 1996 Jan 31;7(2):593–6

Scavenger receptor mRNAs in rat brain microglia are induced by kainic acid lesioning and by cytokines. Grewal RP, et al. **Neuroreport** 1997 Mar 24;8(5):1077–81

Alcohol intake decreases brain Zonisamide concentration in inbred EL mice. Nagatomo I, et al. **Neuroreport** 1997 Jan 20;8(2):391–4

Gangliosides enhance KCl–induced Ca2+ influx and acetylcholine release in brain synaptosomes. Tanaka Y, et al. **Neuroreport** 1997 Jul 7;8(9–10):2203–7

Influence of aspirin on the contingent negative wave in healthy subjects. Vein AM, et al. **Neurosci Behav Physiol** 1996 Sep–Dec;26(5):489–91

Effects of MDMA on complex brain function in laboratory animals. Frederick DL, et al. **Neurosci Biobehav Rev** 1997 Jan;21(1):67–78 (70 ref.)

Increase in levels of total free fatty acids in rat brain regions following 3–nitropropionic acid administration. Binienda Z, et al. **Neurosci Lett** 1997 Jul 25;230(3):199–201

Reserpine potentiates NMDA–induced c–fos mRNA expression in the mouse brain. Ferré S, et al. **Neurosci Lett** 1996 Jul 19;212(3):147–50

Nerve growth factor effects on the song control system of zebra finches. Fiore M, et al. **Neurosci Lett** 1997 Feb 28; 223(3):161–4

Amphetamine releases dopamine from synaptic vesicles by dual mechanisms. Floor E, et al. **Neurosci Lett** 1996 Aug 30;215(1):53–6

Effects of repeated oral doses of dexnorfenfluramine on 5–HT levels and 5–HT uptake sites in rat brain. Gobbi M, et al. **Neurosci Lett** 1996 Nov 15;219(1):5–8

Pharmacological characterization of CCKB receptors in human brain: no evidence for receptor heterogeneity. Kinze S, et al. **Neurosci Lett** 1996 Oct 11;217(1):45–9

Effects of an anabolic–androgenic steroid on the regulation of the NMDA receptor NR1, NR2A and NR2B subunit mRNAs in brain regions of the male rat. Le Grevès P, et al. **Neurosci Lett** 1997 Apr 18;226(1):61–4

Effects of L–thyroxine on brain monoamines during parr–smolt transformation of Atlantic salmon (Salmo salar L.). Morin PP, et al. **Neurosci Lett** 1997 Mar 21; 224(3):216–8

Inhibition of glutamate decarboxylase activity by 3–mercaptopropionic acid has different time course in the immature and adult rat brains. Netopilová M, et al. **Neurosci Lett** 1997 Apr 18;226(1):68–70

Effects of chronic nicotine treatment on the expression of phospholipase C isozymes and the alpha subunit of Gq/11 protein in the rat brain. Pandey SC. **Neurosci Lett** 1996 Jul 12;212(2):127–30

In situ hybridization for two differentially expressed GnRH genes following estrogen and triiodothyronine treatment in the brains of juvenile tilapia (cichlid). Parhar IS, et al. **Neurosci Lett** 1996 Nov 1;218(2):135–8

Chronic hypoxia induces modification of the N–methyl–D–aspartate receptor in rat brain. Pichiule P, et al. **Neurosci Lett** 1996 Nov 1;218(2):83–6

Effect of intracerebroventricular and intravenous insulin on Fos–immunoreactivity in the rat brain. Porter JP, et al. **Neurosci Lett** 1997 Mar 21;224(3):161–4

Antisense oligodeoxynucleotide attenuates in vivo expression

of c-fos in the paraventricular hypothalamic nucleus of the rat brain. Quercia S, et al. **Neurosci Lett** 1996 May 10;209(2):89–92

The 5-HT1A antagonist WAY-100635 selectively potentiates the presynaptic effects of serotonergic antidepressants in rat brain. Romero L, et al. **Neurosci Lett** 1996 Nov 22; 219(2):123–6

Increased susceptibility of brain slices from carbonic anhydrase II-deficient mice to low [Mg2+]O-induced seizures. Velíšek L, et al. **Neurosci Lett** 1996 Apr 5; 207(3):143–6

Excitotoxic lesions of histaminergic neurons by excitatory amino acid agonists in the rat brain. Yanai K, et al. **Neurosci Lett** 1997 Sep 5;232(3):159–62

Strong c-Jun/AP-1 immunoreactivity is restricted to apoptotic cells following intracerebral ibotenic acid injection in developing rats. Ferrer I, et al. **Neurosci Res** 1997 May;28(1):21–31

Long-lasting enhancement of synaptic activity in dissociated cerebral neurons induced by brief exposure to Mg2+-free conditions. Kudoh SN, et al. **Neurosci Res** 1997 Aug; 28(4):337–44

The endogenous cerebral tetrapeptide 5-HT-moduline reduces in vivo the functional activity of central 5-HT1B receptors in the rat. Seguin L, et al. **Neurosci Res** 1997 Mar;27(3):277–80

Overriding the brain's intrinsic resistance to leukocyte recruitment with intraparenchymal injections of recombinant chemokines. Bell MD, et al. **Neuroscience** 1996 Sep;74(1):283–92

Long-term expression of the 35,000 mol. wt fos-related antigen in rat brain after kainic acid treatment. Bing G, et al. **Neuroscience** 1996 Aug;73(4):1159–74

The corticosterone synthesis inhibitor metyrapone decreases dopamine D1 receptors in the rat brain. Czyrak A, et al. **Neuroscience** 1997 Jul;79(2):489–95

In vivo regulation of specific GABAA receptor subunit messenger RNAs by increased GABA concentrations in rat brain. Fénelon VS, et al. **Neuroscience** 1996 Apr; 71(3):661–70

ATP-induced membrane currents in ameboid microglia acutely isolated from mouse brain slices. Haas S, et al. **Neuroscience** 1996 Nov;75(1):257–61

Neurotoxic consequences of central long-term administration of interleukin-2 in rats. Hanisch UK, et al. **Neuroscience** 1997 Aug;79(3):799–818

Electrophysiological, behavioural and biochemical evidence for activation of brain noradrenergic systems following neurokinin NK3 receptor stimulation. Jung M, et al. **Neuroscience** 1996 Sep;74(2):403–14

Neurotoxicity of (2S,1'R,2'R,3'R)-2-(2,3-dicarboxycyclopropyl)glycine, a potent agonist for class II metabotropic glutamate receptors, in the rat. Kwak S, et al. **Neuroscience** 1996 Aug; 73(3):687–95

Thyroid hormonal modulation of the binding and activity of the GABAA receptor complex of brain. Martin JV, et al. **Neuroscience** 1996 Aug;73(3):705–13

Central c-Fos expression in neonatal and adult rats after subcutaneous injection of hypertonic saline. Rinaman L, et al. **Neuroscience** 1997 Aug;79(4):1165–75

Chronic corticosterone treatment elicits dose-dependent changes in mouse brain alpha-bungarotoxin binding. Stitzel JA, et al. **Neuroscience** 1996 Jun;72(3):791–9

Anatomical studies of DNA fragmentation in rat brain after systemic kainate administration. Weiss S, et al. **Neuroscience** 1996 Sep;74(2):541–51

Angiotensin II interacts with nitric oxide-cyclic GMP pathway in the central control of drinking behaviour: mapping with c-fos and NADPH-diaphorase. Zhu B, et al. **Neuroscience** 1997 Jul;79(2):543–53

Radioprotective effects of the 21-aminosteroid U-74389G for stereotactic radiosurgery. Kondziolka D, et al. **Neurosurgery** 1997 Jul;41(1):203–8

Long-term toxicity and neuropathology associated with the sequencing of cranial irradiation and enhanced chemotherapy delivery. Remsen LG, et al. **Neurosurgery** 1997 May;40(5):1034–40; discussion 1040–2

Functional observational battery comparing effects of ethanol, 1,1,1-trichloroethane, ether, and flurothyl. Bowen SE, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):577–85

Functional effects of methylazoxymethanol-induced cerebellar hypoplasia in rats. Ferguson SA, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):529–37

The need for cellular, biochemical, and mechanistic studies. Hanneman WH, et al. **Neurotoxicol Teratol** 1996 May–Jun; 18(3):247–50; discussion 271–6 (34 ref.)

Ethanol-induced cell death in cultured rat astroglia. Holownia A, et al. **Neurotoxicol Teratol** 1997 Mar–Apr; 19(2):141–6

Perinatal manganese exposure: behavioral, neurochemical, and histopathological effects in the rat. Pappas BA, et al. **Neurotoxicol Teratol** 1997 Jan–Feb;19(1):17–25

Perinatal methadone exposure affects dopamine, norepinephrine, and serotonin in the weanling rat. Robinson SE, et al. **Neurotoxicol Teratol** 1997 Jul–Aug; 19(4):295–303

Developmental neurotoxicity evaluation of the avermectin pesticide, emamectin benzoate, in Sprague-Dawley rats. Wise LD, et al. **Neurotoxicol Teratol** 1997 Jul–Aug; 19(4):315–26

Interaction of mercury compounds with muscarinic receptor subtypes in the rat brain. Castoldi AF, et al. **Neurotoxicology** 1996 Fall-Winter;17(3–4):735–41

Exposure to methylmercury results in serum autoantibodies to neurotypic and gliotypic proteins [corrected and republished article originally printed in Neurotoxicology 1996 Spring;17(1):267–76] el-Fawal HA, et al. **Neurotoxicology** 1996 Summer;17(2):531–9

Gliotoxicity in brain reaggregate cultures caused by oxidants and excitatory amino acids can be prevented by alpha-tocopherol and MK-801. Fox RM, et al. **Neurotoxicology** 1996 Fall-Winter;17(3–4):705–10

Pb2+ inhibits NMDA receptor function at high and low affinity sites: developmental and regional brain expression. Guilarte TR. **Neurotoxicology** 1997;18(1):43–51

Systemic application of pyrethroid insecticides evokes differential expression of c-Fos and c-Jun proteins in rat brain. Hassouna I, et al. **Neurotoxicology** 1996 Summer; 17(2):415–31

Long-term alterations in regional brain serotonin metabolism following maternal polychlorinated biphenyl exposure in the rat. Morse DC, et al. **Neurotoxicology** 1996 Fall-Winter; 17(3–4):631–8

Rat brain mast cells: an in vitro paradigm for assessing the toxic effects of neurotropic therapeutics. Purcell WM, et al. **Neurotoxicology** 1996 Fall-Winter;17(3–4):845–50

6-Hydroxydopamine-mediated induction of rat brain metallothionein I mRNA. Rojas P, et al. **Neurotoxicology** 1996 Summer;17(2):323–34

Histological, histochemical and autoradiographic evidence of in vitro neurotoxic effects of the novel antitumor agent, 9-methoxy-N2-methyllipticinium acetate. Shankar L, et al. **Neurotoxicology** 1997;18(1):89–95

In vitro neurotoxicity of the antitumor agent 9-methoxy-N2-methyllipticinium acetate (MMEA): role of brain cytochrome P-450. Sriram K, et al. **Neurotoxicology** 1997;18(1):97–104

Human brain disturbance by methylmercury poisoning, focusing on the long-term effect on brain weight. Takeuchi T, et al. **Neurotoxicology** 1996 Spring;17(1):187–90

Changes in regional brain GFAP levels and behavioral functioning following subchronic lead acetate exposure in adult rats. Van den Berg KJ, et al. **Neurotoxicology** 1996 Fall-Winter;17(3–4):725–34

Effects of organophosphate exposure on muscarinic acetylcholine receptor subtype mRNA levels in the adult rat. Yagle K, et al. **Neurotoxicology** 1996 Summer; 17(2):523–30

Hallucinogenic agents: drugs of abuse as neurochemical tools. **NIDA Res Monogr** 1994;140:94–8

Basic neurobiology of abused drugs. **NIDA Res Monogr** 1996; 162:54–6

Neurotoxicity and neuropathology associated with chronic cocaine abuse. **NIDA Res Monogr** 1996;162:70–2

Electrophysical analyses of psychostimulant drug actions: from the slice to the awake animal. **NIDA Res Monogr** 1996;162:76–8

Neurotoxicity of amphetamines and their metabolites. Gibb JW, et al. **NIDA Res Monogr** 1997;173:128–45 (27 ref.)

Potential new insights into the molecular mechanisms of methamphetamine-induced neurodegeneration. Wrona MZ, et al. **NIDA Res Monogr** 1997;173:146–74 (85 ref.)

Time-dependent recovery of in vivo binding sites after drug dosing: a method for radiotracer evaluation. Kilbourn MR. **Nucl Med Biol** 1997 Jan;24(1):115–8

Effects of dopaminergic drug treatments on in vivo radioligand binding to brain vesicular monoamine transporters. Kilbourn MR, et al. **Nucl Med Biol** 1996 May; 23(4):467–71

Systemic nitroglycerin activates peptidergic and catecholaminergic pathways in rat brain. Tassorelli C, et al. **Peptides** 1996;17(3):443–9

Cannabinoid-induced alterations in regional cerebral blood flow in the rat. Bloom AS, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):625–31

Anabolic-androgenic steroids and brain reward. Clark AS, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):741–5

Responses to propofol in relation to GABA functionality of discrete parts of the brain of rats. Dirksen R, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):727–35

Nutritional factors modify the inhibition of CNS development by combined exposure to methadone and ethanol in neonatal rats. Kane CM, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):399–407

Persistent increases in basal cerebral metabolic activity induced by morphine sensitization. Kraus MA, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1–2):89–100

The role of nitric oxide in soman-induced seizures, neuropathology, and lethality. Lallement G, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):731–7

Effect of nimodipine on systemic, renal, and cerebral haemodynamics after a mild hypoxic-ischaemic insult in newborn piglets. Raju TN, et al. **Pharmacol Res** 1996 Jan; 33(1):5–12

Pharmacology of lazaroids and brain energy metabolism: a review. Villa RF, et al. **Pharmacol Rev** 1997 Mar; 49(1):99–136 (274 ref.)

Cytokines and their receptors in the central nervous system: physiology, pharmacology, and pathology. Rothwell NJ, et al. **Pharmacol Ther** 1996;69(2):85–95 (159 ref.)

Effects on behaviour and EEG of single chain phospholipases A2 from snake and bee venoms injected into rat brain: search for a functional antagonism. Gandolfo G, et al. **Pharmacol Toxicol** 1996 May;78(5):341–7

Increase in brain nitric oxide synthase activity in daunorubicin-treated rats. Joshi P, et al. **Pharmacol Toxicol** 1996 Feb;78(2):99–103

Pharmacological analysis of local anaesthetic tolycaine-induced convulsions by modification of monoamines in rat brain. Satoh T, et al. **Pharmacol Toxicol** 1996 Dec;79(6):305–11

Chronic blockade of opioid receptors alters the binding of [3H]GBR 12935 to dopamine transporter in rat brain regions and spinal cord. Bhargava HN, et al. **Pharmacology** 1996 Apr;52(4):243–51

Effects of carbamazepine treatment on pain threshold values and brain serotonin levels in rats. Pinelli A, et al. **Pharmacology** 1997 Mar;54(3):113–7

Ginkgo biloba extract (EGb 761) independently improves changes in passive avoidance learning and brain membrane fluidity in the aging mouse. Stoll S, et al. **Pharmacopsychiatry** 1996 Jul;29(4):144–9

Acute encephalopathy attributed to 5-FU. Langer CJ, et al. **Pharmacotherapy** 1996 Mar-Apr;16(2):311–3

Intracerebroventricular injection of CCK reduces operant sugar intake in pigs. Baldwin BA, et al. **Physiol Behav** 1996 Jul;60(1):231–3

Adrenalectomy increases sensitivity to central insulin. Chavez M, et al. **Physiol Behav** 1997 Sep;62(3):631–4

The effects of amylin on motivated behavior in rats. Kovács AM, et al. **Physiol Behav** 1996 Jul;60(1):183–6

Reduction of the scopolamine-induced impairment of passive-avoidance performance by sigma receptor agonist in mice. Senda T, et al. **Physiol Behav** 1997 Feb; 61(2):257–64

Central propranolol and pindolol, but not atenolol nor metoprolol, inhibit sexual behavior in male rats. Smith ER, et al. **Physiol Behav** 1996 Feb;59(2):241–6

Neurobehavioral dysfunctions associated with dietary iron overload. Sobotka TJ, et al. **Physiol Behav** 1996 Feb; 59(2):213–9

Biocompatibility of fixation materials in the brain. Mofid MM, et al. **Plast Reconstr Surg** 1997 Jul;100(1):14–20; discussion 21–2

Specific requirement of putrescine for the mitogenic action of juvenile hormone on adult insect neuroblasts. Cayre M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8238–42

Carboxyfullerenes as neuroprotective agents. Dugan LL, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9434–9

Fluoxetine-elicited changes in brain neurosteroid content measured by negative ion mass fragmentography. Uzunov DP, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12599–604

Piroxicam and tenoxicam effects on ethanol-induced lipid peroxidation in brains of CD-1 male mice. Pérez-Tapia E, et al. **Proc West Pharmacol Soc** 1996;39:77–9

The effects of methylenedioxymethamphetamine (MDMA, "Ecstasy") on monoaminergic neurotransmission in the central nervous system. White SR, et al. **Prog Neurobiol** 1996 Aug;49(5):455–79 (136 ref.)

Pemoline produces ipsilateral turning behavior in unilateral 6-OHDA-lesioned rats. Cromwell HC, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):503–14

The influence of nicardipine and ifenprodil on the brain free arachidonic acid level and behavior in hypoxia-exposed rats. Eraković V, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 May; 21(4):633–47

Acute brain syndrome after tapering off clozapine in clozapine-lithium combination. Hellwig B, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):179–83

Influence of exercise and ethanol on cholinesterase activity and lipid peroxidation in blood and brain regions of rat. Husain K, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 May; 21(4):659–70

Effects of acute and chronic administration of high-dose corticosterone and dexamethasone on regional brain dopamine and serotonin metabolism in rats. Inoue T, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):147–56

The influence of nimodipine and MK-801 on the brain free arachidonic acid level and the learning ability in hypoxia-exposed rats. Mršić J, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb; 21(2):345–58

Effect of L-alpha glycerylphosphorylcholine on muscarinic receptors and membrane microviscosity of aged rat brain. Muccioli G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Feb; 20(2):323–39

Actions of methoxylated amphetamine hallucinogens on serotonergic neurons of the brain. Penington NJ. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Aug; 20(6):951–65

Changes of behavior and monoamine metabolites in the rat brain after repeated methamphetamine administration: effects of duration of repeated administration. Suzuki H, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb;21(2):359–69

Multilead quantitative EEG profile of clozapine in resting and vigilance-controlled conditions. Galderisi S, et al. **Psychiatry Res** 1996 Jul 31;67(2):113–22

Biological consequences of drug administration: implications for acute and chronic tolerance. Ramsay DS, et al. **Psychol Rev** 1997 Jan;104(1):170–93 (180 ref.)

Physiological and behavioral effects of chronic intracerebroventricular infusion of corticotropin-releasing factor in the rat. Buwalda B, et al. **Psychoneuroendocrinology** 1997 Jul;22(5):297–309

A nose–brain pathway for psychotropic peptides: evidence from a brain evoked potential study with cholecystokinin. Pietrowsky R, et al. **Psychoneuroendocrinology** 1996 Aug; 21(6):559–72

Relationship between up-regulation of nicotine binding sites in rat brain and delayed cognitive enhancement observed after chronic or acute nicotinic receptor stimulation. Abdulla FA, et al. **Psychopharmacology (Berl)** 1996 Apr; 124(4):323–31

Differences in effects of Ca2+ channel antagonists on dopamine metabolism in the limbic and extrapyramidal dopaminergic structures. Antkiewicz-Michaluk L, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):39–44

Ovarian steroids modify the behavioral and neurochemical responses of the central benzodiazepine receptor. Bitran D, et al. **Psychopharmacology (Berl)** 1996 May;125(1):65–73

Neurochemical evidence for antagonism by olanzapine of dopamine, serotonin, alpha 1-adrenergic and muscarinic receptors in vivo in rats. Bymaster FP, et al. **Psychopharmacology (Berl)** 1996 Mar;124(1–2):87–94

Chiral drugs: comparison of the pharmacokinetics of [11C]d-threo and L-threo-methylphenidate in the human and baboon brain. Ding YS, et al. **Psychopharmacology (Berl)** 1997 May;131(1):71–8

Persisting changes in brain glucose uptake following neurotoxic doses of phencyclidine which mirror the acute effects of the drug. Ellison GD, et al. **Psychopharmacology (Berl)** 1996 Aug;126(3):271–4

Biochemical studies support the assumption that dopamine plays a minor role in the EEG effects of nicotine. Ferger B, et al. **Psychopharmacology (Berl)** 1997 Jan;129(2):192–6

Executive function and uptake of 99mTc-exametazime shown by single photon emission tomography after oral idazoxan in probable Alzheimer-type dementia. Goodwin GM, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):371–8

Risperidone: regional effects in vivo on release and metabolism of dopamine and serotonin in the rat brain. Hertel P, et al. **Psychopharmacology (Berl)** 1996 Mar; 124(1–2):74–86

Mechanisms of action of atypical antipsychotic drugs: a critical analysis. Kinon BJ, et al. **Psychopharmacology (Berl)** 1996 Mar;124(1–2):2–34 (517 ref.)

Additive deficits in the choice accuracy of rats in the delayed non-matching to position task after cholinolytics and serotonergic lesions are non-mnemonic in nature. Ruotsalainen S, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(4):303–12

Effects of trepelennamine on brain monoamine turnover in morphine dependent and abstinent mice. San-Martin-Clark O, et al. **Psychopharmacology (Berl)** 1996 Feb; 123(3):297–302

Autoradiographic mapping of mu opioid receptor changes in rat brain after long-term haloperidol treatment: relationship to the development of vacuous chewing movements. Sasaki T, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):97–104

Risperidone: a novel antipsychotic with many "atypical" properties? Stathis P, et al. **Psychopharmacology (Berl)** 1996 Oct;127(3):181–6

Regulation of ionotropic glutamate receptors following subchronic and chronic treatment with typical and atypical antipsychotics. Tarazi FI, et al. **Psychopharmacology (Berl)** 1996 Dec;128(4):371–9

Effects of diltiazem, a Ca2+ channel blocker, on naloxone-precipitated changes in dopamine and its metabolites in the brains of opioid-dependent rats. Tokuyama S, et al. **Psychopharmacology (Berl)** 1996 May; 125(2):135–40

Combined effects of ethanol and cocaine on FOS-like protein and cocaethylene biosynthesis in the rat. Torres G, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):105–14

Glutamate and benzodiazepine receptor autoradiography in rat brain after repetition of alcohol dependence. Ulrichsen J, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):31–41

Temporal relationships between the pharmacokinetics of methylphenidate in the human brain and its behavioral and cardiovascular effects. Volkow ND, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):26–33

Effects of cigarette smoking on EEG spectral-band power, dimensional complexity, and nonlinearity during reaction-time task performance. Houlihan ME, et al. **Psychophysiology** 1996 Nov;33(6):740–6

Effect of aluminum on regional brain antioxidant defense status in Wistar rats. Julka D, et al. **Res Exp Med (Berl)** 1996;196(3):187–94

Resuscitation from cardiac arrest in cats: influence of epinephrine dosage on brain recovery. Schmitz B, et al. **Resuscitation** 1995 Dec;30(3):251–62

Molecular and cellular basis of addiction. Nestler EJ, et al. **Science** 1997 Oct 3;278(5335):58–63 (63 ref.)

Common neural substrates for the addictive properties of nicotine and cocaine. Pich EM, et al. **Science** 1997 Jan 3;275(5296):83–6

Cocaine wreaks subtle damage on developing brains [news] Vogel G. **Science** 1997 Oct 3;278(5335):38–9

Marijuana: harder than thought? [news; comment] Wickelgren I. **Science** 1997 Jun 27;276(5321):1967–8. Comment on: Science 1997 Jun 27;276(5321):2048–50. Comment on: Science 1997 Jun 27;276(5321):2050–4.

Pentylenetetrazol and strychnine convulsions in brain weight selected mice. Bogdanov NN, et al. **Seizure** 1997 Apr; 6(2):135–8

Inhibitory effect of MS-153 on elevated brain glutamate level induced by rat middle cerebral artery occlusion. Umemura K, et al. **Stroke** 1996 Sep;27(9):1624–8

Impaired cerebral autoregulation after mild brain injury. Strebel S, et al. **Surg Neurol** 1997 Feb;47(2):128–31

A new iodinated tropane derivative (beta-CDIT) for in vivo dopamine transporter exploration: comparison with beta-CIT. Emond P, et al. **Synapse** 1997 May;26(1):72–80

Neurotoxicity induced by interleukin-2: involvement of infiltrating immune cells. Hanisch UK, et al. **Synapse** 1996 Oct;24(2):104–14

Thyroid hormones and the treatment of depression: an examination of basic hormonal actions in the mature mammalian brain. Henley WN, et al. **Synapse** 1997 Sep; 27(1):36–44 (111 ref.)

Microdialysis and SPECT measurements of amphetamine-induced dopamine release in nonhuman primates. Laruelle M, et al. **Synapse** 1997 Jan;25(1):1–14

Local cerebral metabolic effects of the novel cocaine analog, WF-31: comparisons to fluoxetine. Porrino LJ, et al. **Synapse** 1997 Sep;27(1):26–35

Localized changes in GABA receptor-gated chloride channel in rat brain after long-term haloperidol: relation to vacuous chewing movements. Sasaki T, et al. **Synapse** 1997 Jan;25(1):73–9

Comparative evaluation of [3H]WIN 35428 and [3H]GBR 12935 as markers of dopamine innervation density in brain. Soucy JP, et al. **Synapse** 1997 Feb;25(2):163–75

Localization of gamma-glutamylcysteine synthetase mRNA expression in mouse brain following methylmercury treatment using reverse transcription in situ PCR amplification. Li S, et al. **Toxicol Appl Pharmacol** 1996 Sep; 140(1):180–7

Tissue-specific bioenergetic effects and increased enzymatic activities following acute sublethal peroral exposure to cyanide in the mallard duck. Ma J, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):297–302

Persistent alterations in regional brain glial fibrillary acidic protein and synaptophysin levels following pre- and postnatal polychlorinated biphenyl exposure. Morse DC, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):252–61

Inhibition of neurotoxic esterase in vitro by novel carbamates. Randall JC, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):173–8

Comparative in vitro and in vivo protein kinase C activation by selected pesticides and transition metal salts. Bagchi D, et al. **Toxicol Lett** 1997 Mar 14;91(1):31–7

Fenvalerate-induced alterations in circulatory thyroid hormones and calcium stores in rat brain. Kaul PP, et al. **Toxicol Lett** 1996 Dec;89(1):29–33

Effect of melatonin, piperonyl butoxide, or cobalt chloride on L-cysteine-induced lipid peroxidation in homogenate from whole brain of mice. Yamamoto H, et al. **Toxicol Lett** 1996 Dec;89(1):51–6

The effect of carbon monoxide on oxygen metabolism in the brains of awake sheep. Langston P, et al. **Toxicology** 1996 Dec 18;114(3):223–32

Application of a radioreceptor assay to the screening and characterisation of compounds from marine organisms with activity at the phorbol ester binding site of protein kinase C. de Vries DJ, et al. **Toxicon** 1997 Mar;35(3):347–54

The contribution of conventional and quantitative electroencephalography during monitoring of exposure to hyperbaric oxygen. Visser GH, et al. **Undersea Hyperb Med** 1996 Jun;23(2):91–8

Method for screening drug and chemical effects in laboratory rats using computerized quantitative electroencephalography. Jones RD, et al. **Vet Hum Toxicol** 1996 Feb;38(1):1–7

[Morphological effects of ammonia on cultured fetal rat neurons] Zhu J, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):139–41 (Eng. Abstr.) **(Chi)**

[Chronic prenatal exposure to diazepam, brain metabolism and behavior: long-term consequences in the adult rat] Schroeder H, et al. **Encephale** 1997 Mar-Apr;23(2):131–41 (Eng. Abstr.) **(Fre)**

[Collateral effects of disulfiram on the central nervous system in alcoholics that have become totally abstemious. Description of 8 cases] Maccari S, et al. **Ann Ital Med Int** 1996 Oct-Dec;11(4):279–83 (Eng. Abstr.) **(Ita)**

[Experimental study of methamphetamine psychosis--role of glutamate and nitric oxide in methamphetamine-induced dopaminergic and serotonergic neurotoxicity in the rat brain] Abekawa T. **Hokkaido Igaku Zasshi** 1997 Jan; 72(1):113–26 (Eng. Abstr.) **(Jpn)**

[Neurotoxicity of carbapenem compounds and other beta-lactam antibiotics] Sunagawa M, et al. **Jpn J Antibiot** 1996 Jan;49(1):1–16 (54 ref.) (Eng. Abstr.) **(Jpn)**

[Blood flow changes in the optic nerve head of albino rabbits following intravenous administration of brovincamine fumarate, an improver of cerebral circulation and metabolism] Nirei M. **Nippon Ganka Gakkai Zasshi** 1996 Feb;100(2):118–25 (Eng. Abstr.) **(Jpn)**

[Maternal environment and developmental brain damages] Tanaka H. **No To Hattatsu** 1997 May;29(3):183–9 (Eng. Abstr.) **(Jpn)**

[Protective effect of L-histidine (singlet oxygen scavenger) on transient forebrain ischemia in the rat] Kawamoto T, et al. **No To Shinkei** 1997 Jul;49(7):612–8 (Eng. Abstr.) **(Jpn)**

[Cytotoxicity of excitatory sulfur amino acids in primary cultured rat cerebral neurons] Abeta S. **Rinsho Shinkeigaku** 1995 Oct;35(10):1092–7 (Eng. Abstr.) **(Jpn)**

[Direct effects of the intrathecal administration of normal saline for the brain expansion after the removal of subdural hematoma] Zderkiewicz E, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):457–65 (Eng. Abstr.) **(Pol)**

[Phosphorylation of rat brain synaptosomal proteins stimulated by alpha-latrotroxin] Pozdniakova NG, et al. **Biokhimiia** 1996 Sep;61(9):1600–9 (Eng. Abstr.) **(Rus)**

[Changes in the density of GABAA receptor chloride channels in rodent brain induced by norbornane] Golovko AI, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):14–6 **(Rus)**

[Effect of mexidol on the level of monoamine mediators and amino acids in rat brain structures] Miroshnichenko II, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):170–3 **(Rus)**

[Effect of adrenocorticotropic hormone fragments and atriopeptides on the development of toxic brain edema-swelling] Platonov IA, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):521–3 **(Rus)**

[Effect of cytochrome C and its derivatives on blood circulation and oxidative metabolism of the brain in ischemia] Pogorelyi VE, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):640–2 **(Rus)**

[The effect of GABA and piracetam on the qualitative and quantitative composition of the brain phospholipids in rats under hypokinetic conditions] Akopian VP, et al. **Eksp Klin Farmakol** 1996 May-Jun;59(3):40–3 (Eng. Abstr.) **(Rus)**

[The biological range and characteristics of the importance of adenosine receptors for the resistance of the brain to total ischemia] Kulinskii VI, et al. **Eksp Klin Farmakol** 1996 Jul-Aug;59(4):25–7 (Eng. Abstr.) **(Rus)**

[The effect of substances with nootropic activity on oxidative phosphorylation in brain mitochondria in acute craniocerebral trauma] Novikov VE, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):59–61 (Eng. Abstr.) **(Rus)**

[Brain glycolipids in rats after disulfiram administration] Selevich MI, et al. **Eksp Klin Farmakol** 1996 Sep-Oct; 59(5):47–8 (Eng. Abstr.) **(Rus)**

[The phospholipid composition of the liver and the glycolipid spectrum of the brain in rats administered cyanamide] Selevich MI, et al. **Eksp Klin Farmakol** 1996 Nov-Dec; 59(6):38–40 (Eng. Abstr.) **(Rus)**

[Comparative study of the antioxidant activity of gamma-butyrobetaine and its natural and synthetic derivatives in vitro] Shutenko ZhI, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):54–7 (Eng. Abstr.) **(Rus)**

[The function of the brain structures in rabbits under the action of hyperbaric helium and nitrogen-oxygen mixtures] Sledkov AIu, et al. **Fiziol Zh** 1995 Sep-Dec;41(5–6):50–6 (Eng. Abstr.) **(Rus)**

[Lipid spectrum of rat liver and brain after administration of pyrazole] Selevich MI, et al. **Patol Fiziol Eksp Ter** 1997 Jan-Mar;(1):15–7 (Eng. Abstr.) **(Rus)**

[Enzyme activity and level of GABA-shunt substrates in rat brain during repeated exposure to hypoglycemic doses of insulin] Telushkin PK, et al. **Vopr Med Khim** 1996 Oct-Dec;42(4):306–8 (Eng. Abstr.) **(Rus)**

[The effect of unilateral destruction of the caudate nucleus with kainic acid on the nature of the electrical activity in the rat brain in the wakefulness-sleep cycle] Vataev SI, et al. **Zh Evol Biokhim Fiziol** 1996 Sep-Oct;32(5):613–9 (Eng. Abstr.) **(Rus)**

[Effect of adrenaline on food consumption and C-fos expression in the central nervous system] Racotta IS, et al. **Gac Med Mex** 1995 Jul-Aug;131(4):409–16 (Eng. Abstr.) **(Spa)**

[Neurotoxicity of acyclovir (letter)] Calvo Romero JM, et al. **Rev Clin Esp** 1997 Apr;197(4):297 **(Spa)**

[Neuronal toxicity of human recombinant interleukin-2 in rats. Morphological and behavioral validation] Robinson MA, et al. **Rev Neurol** 1997 Mar;25(139):452–6 **(Eng. Abstr.)** **(Spa)**

[The neurophysiological effects of the beta-blocker obzidan in the modelling of emotional stress] Shever'ova VM. **Fiziol Zh** 1997;43(1–2):31–9 (Eng. Abstr.) **(Ukr)**

EMBRYOLOGY

Disordered migration and loss of virus-infected neuronal cells in developing mouse brains infected with murine cytomegalovirus. Shinmura Y, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):551–7

Synaptogenesis, heterochrony and epigenesis in the mammalian neocortex. Bourgeois JP. **Acta Paediatr Suppl** 1997 Jul;422:27–33 (62 ref.)

Environmental and genetic determinants of neural migration and postmigratory survival. Evrard P, et al.

Acta Paediatr Suppl 1997 Jul;422:20–6 (52 ref.)
Prenatal determinants of motor disorders. Stanley FJ.
Acta Paediatr Suppl 1997 Jul;422:92–102 (65 ref.)
A critical review of the current status and possible developments in brain transplantation. Rehncrona S.
Adv Tech Stand Neurosurg 1997;23:3–46 (133 ref.)
Regulation of neurogenesis in the embryonic and adult brain by fibroblast growth factors. Bartlett PF, et al.
Alcohol Alcohol Suppl 1994;2:387–94 (49 ref.)
Fetal and fetal organ volume estimations with magnetic resonance imaging. Garden AS, et al.
Am J Obstet Gynecol 1996 Aug;175(2):442–8
Lack of effect of antenatal indomethacin on fetal cerebral blood flow. Parilla BV, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1166–9; discussion 1169–71
Fetal cerebral, circulatory, and metabolic responses during heart rate decelerations with umbilical cord compression. Richardson BS, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):929–36
Fetal brain sparing is associated with accelerated shortening of visual evoked potential latencies during early infancy. Scherjon SA, et al. **Am J Obstet Gynecol** 1996 Dec; 175(6):1569–75
Intercellular barriers to and transcellular transfer of albumin in the fetal sheep brain. Balslev Y, et al.
Anat Embryol (Berl) 1997 Mar;195(3):229–36
Ontogeny of vasoactive intestinal peptide gene expression in rat brain. Graber M, et al. **Anat Embryol (Berl)** 1996 Dec;194(6):595–605
Growth factor properties of VIP during early brain development. Whole embryo culture and in vivo studies. Gressens P, et al. **Ann N Y Acad Sci** 1997 Apr 24; 814:152–60
Distribution and processing of secretoneurin in the developing rat brain. Saria A, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:90–6
Expression of the JNK2-alpha1 gene in the developing chick brain [published erratum appears in Biochem Biophys Res Commun 1997 Jul 18;236(2):538] Ishikawa T, et al.
Biochem Biophys Res Commun 1997 May 19;234(2):489–92
Ontogeny of neurotransmitter amino acids in human fetal brains. Das SK, et al. **Biochem Mol Biol Int** 1997 Jun; 42(1):193–202
Polyunsaturated fatty acid accretion in first- and second-trimester human fetal brain: lack of correlation with levels in paired placental samples. Percy P, et al.
Biochem Mol Med 1996 Oct;59(1):38–43
Tissue-specific development of antioxidant systems during avian embryogenesis. Speake BK, et al.
Biochem Soc Trans 1996 May;24(2):182S
The relationship between the fatty acid composition of the lipids of the yolk and the brain of the duck embryo. Speake BK, et al. **Biochem Soc Trans** 1996 May;24(2):181S
During neuronal and glial cell development diet n - 6 to n - 3 fatty acid ratio alters the fatty acid composition of phosphatidylinositol and phosphatidylserine. Jumpsen JA, et al. **Biochim Biophys Acta** 1997 Jul 12;1347(1):40–50
Common ground plans in early brain development in mice and flies. Arendt D, et al. **Bioessays** 1996 Mar;18(3):255–9 (64 ref.)
Central noradrenergic hyperactivity early in life: a hypothesis on the origin of morpho-functional brain disorders induced by malnutrition. Soto-Moyano R, et al. **Biol Res** 1995; 28(1):105–11 (80 ref.)
Phenotypic specification of hindbrain rhombomeres and the origins of rhythmic circuits in vertebrates. Bass AH, et al. **Brain Behav Evol** 1997;50 Suppl 1:3–16 (120 ref.)
Transiently catecholaminergic cells in the fetal rat express mRNA for the glutamate NMDAR1 receptor. Burns GA, et al. **Brain Res** 1996 Apr 29;718(1–2):117–23
Preproinsulin I and II mRNAs and insulin electron microscopic immunoreaction are present within the rat fetal nervous system. Schechter R, et al. **Brain Res** 1996 Oct 14;736(1–2):16–27
The development of a species difference in the local distribution of brain estrogen receptive cells. Gahr M, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):182–9
Genomic imprinting and the differential roles of parental genomes in brain development. Keverne EB, et al.
Brain Res Dev Brain Res 1996 Mar 29;92(1):91–100
Axonal origin and purity of growth cones isolated from fetal rat brain. Lohse K, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):83–96
Nitric oxide synthase 1 and nitric oxide synthase 3 protein expression is regionally and temporally regulated in fetal brain. Northington FJ, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):1–14
Prostaglandin-H synthase-1 (PGHS-1) gene is expressed in specific neurons of the brain of the late gestation ovine fetus. Norton JL, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):79–96
Migration of GnRH-immunoreactive neurons from the olfactory placode to the brain: a study using avian embryonic chimeras. Yamamoto N, et al.
Brain Res Dev Brain Res 1996 Sep 2;95(2):234–44
Temporal and spatial expression of glutamic acid decarboxylases in human fetal brain. Chan SO, et al.
Brain Res Mol Brain Res 1997 Jun;46(1–2):318–20
New aspects of fibrinolytic proteins in brain development. Takaishi T, et al. **Cell Struct Funct** 1997 Apr;22(2):225–9 (51 ref.)
Developing brain injuries: a new pediatric focus [editorial] Hung KL.
Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih 1996 Nov-Dec;37(6):399–400
Emx and Otx gene expression in the developing mouse brain. Boncinelli E, et al. **Ciba Found Symp** 1995;193:100–16; discussion 117–26 (17 ref.)
Interleukin-7 is trophic for embryonic neurons and is expressed in developing brain. Michaelson MD, et al.
Dev Biol 1996 Oct 10;179(1):251–63
Cadherins in the developing central nervous system: an adhesive code for segmental and functional subdivisions. Redies C, et al. **Dev Biol** 1996 Dec 15;180(2):413–23 (61 ref.)
Inhibition of protein kinase A phenocopies ectopic expression of hedgehog in the CNS of wild-type and cyclops mutant embryos. Ungar AR, et al. **Dev Biol** 1996 Aug 25; 178(1):186–91
Expression of cadherin-11 delineates boundaries, neuromeres, and nuclei in the developing mouse brain. Kimura Y, et al. **Dev Dyn** 1996 Aug;206(4):455–62
Restricted expression of cadherin-8 in segmental and functional subdivisions of the embryonic mouse brain. Korematsu K, et al. **Dev Dyn** 1997 Feb;208(2):178–89
Specific teratogenic effects of different retinoic acid isomers and analogs in the developing anterior central nervous system of zebrafish. Zhang Z, et al. **Dev Dyn** 1996 May; 206(1):73–86
Roles of cadherins in patterning of the developing brain. Takeichi M, et al. **Dev Neurosci** 1997;19(1):86–7
Contractile activity of the uterus prior to labor alters the temporal organization of spontaneous motor activity in the fetal sheep. Robertson SS, et al. **Dev Psychobiol** 1996 Dec; 29(8):667–83
5-HT2B receptor-mediated serotonin morphogenetic functions in mouse cranial neural crest and myocardiac cells. Choi DS, et al. **Development** 1997 May;124(9):1745–55
Mutations affecting neurogenesis and brain morphology in the zebrafish, Danio rerio. Jiang YJ, et al. **Development** 1996 Dec;123:205–16
Protease nexin-1 is expressed at the mouse met-/mesencephalic junction and FGF signaling regulates its promoter activity in primary met-/mesencephalic cells. Küry P, et al. **Development** 1997 Mar;124(6):1251–62
The winged helix gene, Mf3, is required for normal development of the diencephalon and midbrain, postnatal growth and the milk-ejection reflex. Labosky PA, et al. **Development** 1997 Apr;124(7):1263–74
Evidence that FGF8 signalling from the midbrain-hindbrain junction regulates growth and polarity in the developing midbrain. Lee SM, et al. **Development** 1997 Mar; 124(5):959–69
CSF-1 deficiency in mice results in abnormal brain development. Michaelson MD, et al. **Development** 1996 Sep;122(9):2661–72
Mutations affecting the development of the embryonic zebrafish brain. Schier AF, et al. **Development** 1996 Dec; 123:165–78
Preventing the loss of competence for neural induction: HGF/SF, L5 and Sox-2. Streit A, et al. **Development** 1997 Mar;124(6):1191–202
Disorders of brain development in the progeny of mothers who used alcohol during pregnancy. Konovalov HV, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):153–66
Pathomechanism of cerebral hypoplasia in experimental toxoplasmosis in murine fetuses. Minamitani M, et al.
Early Hum Dev 1996 Jan 5;44(1):37–50
Immunohistochemical expression of cell adhesion molecule L1 during development of the human brain. Tsuru A, et al. **Early Hum Dev** 1996 Jul 5;45(1–2):93–101
Identification of a nuclear protein from rat developing brain as heterodimerization partner with thyroid hormone receptor-beta. Huo B, et al. **Endocrinology** 1997 Aug; 138(8):3283–9
Lack of effect of thyroid hormone on late fetal rat brain development. Schwartz HL, et al. **Endocrinology** 1997 Aug; 138(8):3119–24
Maternal diabetes-induced hyperglycemia and acute intracerebral hyperinsulinism suppress fetal brain neuropeptide Y concentrations. Singh BS, et al.
Endocrinology 1997 Mar;138(3):963–9
Effect of maternal delta 9-tetrahydrocannabinol on developing serotonergic system. Molina-Holgado F, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):39–42
Characteristics of human tentorial sinus. Kędzia A.
Folia Histochem Cytobiol 1996;34 Suppl 1:61–2
Evaluation of "ELF" program usefulness in metrologic examinations of fetal brain. Kędzia A, et al.
Folia Morphol (Warsz) 1996;55(4):318–20
Myelin/oligodendrocyte glycoprotein (MOG) expression is associated with myelin deposition. Solly SK, et al. **Glia** 1996 Sep;18(1):39–48
Embryonic and larval development of the basal ganglia connections in the brain of Xenopus laevis. Marin O, et al. **Int J Dev Biol** 1996;Suppl 1:161S–162S
Effects of ischemia-hypoxia induced by interruption of uterine blood flow on fetal rat liver and brain enzyme activities and offspring behavior. Binienda Z, et al.
Int J Dev Neurosci 1996 Jul;14(4):399–408
Differential expression of the soluble 170 kDa brain protein in the fetal and adult human brain. Yew DT, et al.
Int J Dev Neurosci 1996 Aug;14(5):551–7
Effects of prenatal treatment with tritiated water on the developing brain in mouse. Sun XZ, et al.
Int J Radiat Biol 1997 Mar;71(3):309–13
Embryonic neural chimeras in the study of vertebrate brain and head development. Le Douarin NM, et al.
Int Rev Cytol 1997;175:241–309 (200 ref.)
Differentiation processes in the amphibian brain with special emphasis on heterochronies. Schmidt A, et al.
Int Rev Cytol 1996;169:83–150 (247 ref.)
Immunohistochemical study of amoeboid microglial cells in fetal rat brain. Wang CC, et al. **J Anat** 1996 Dec;189 (Pt 3):567–74
Mmot1, a new helix-loop-helix transcription factor gene displaying a sharp expression boundary in the embryonic mouse brain. Malgaretti N, et al. **J Biol Chem** 1997 Jul 11;272(28):17632–9
Receptor-mediated adhesive and anti-adhesive functions of chondroitin sulfate proteoglycan preparations from embryonic chicken brain. Ernst H, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3807–16
Developmental and regional differences in nitric oxide synthase activity and blood flow in the sheep brain. Northington FJ, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):109–15
Distribution of nitric oxide synthase-immunoreactive neurons in fetal rat brains at embryonic day 15 and day 19. Terada H, et al. **J Chem Neuroanat** 1996 Jun;10(3–4):273–8
TRK and p75 neurotrophin receptor systems in the developing human brain. Chen EY, et al.
J Comp Neurol 1996 Jun 10;369(4):591–618
Alpha 2A-adrenergic receptors are expressed by diverse cell types in the fetal primate cerebral wall. Wang F, et al.
J Comp Neurol 1997 Feb 24;378(4):493–507
Early neurogenesis of the Drosophila brain. Younossi-Hartenstein A, et al. **J Comp Neurol** 1996 Jul 1;370(3):313–29
Brain does not utilize low density lipoprotein-cholesterol during fetal and neonatal development in the sheep. Turley SD, et al. **J Lipid Res** 1996 Sep;37(9):1953–61
Automated recognition and mapping of immunolabelled neurons in the developing brain. Hibbard LS, et al.
J Microsc 1996 Sep;183 (Pt 3):241–56
Myocyte-specific enhancer binding factor 2C expression in fetal mouse brain development. Leifer D, et al.
J Mol Neurosci 1997 Apr;8(2):131–43
Developmental distribution of glycosaminoglycans in embryonic rat brain: relationship to axonal tract formation. Fernaud-Espinosa I, et al. **J Neurobiol** 1996 Jul; 30(3):410–24
Lipopolysaccharide and interleukin-1beta augmented histidine decarboxylase activity in cultured cells of the rat embryonic brain. Niimi M, et al. **J Neurochem** 1997 Aug; 69(2):851–8
Regulation of actin and its mRNA by thyroid hormones in cultures of fetal human brain during second trimester of gestation. Pal U, et al. **J Neurochem** 1997 Sep;69(3):1170–6
Progenitor cell proliferation outside the ventricular and subventricular zones during human brain development. Kendler A, et al. **J Neuropathol Exp Neurol** 1996 Dec; 55(12):1253–8
Expression of normal and mutant huntingtin in the developing brain. Bhide PG, et al. **J Neurosci** 1996 Sep 1;16(17):5523–35
Consequences of trisomy 16 for mouse brain development: corticogenesis in a model of Down syndrome. Haydar TF, et al. **J Neurosci** 1996 Oct 1;16(19):6175–82
Restricted expression of the actin-regulatory protein, tropomyosin, defines distinct boundaries, evaginating neuroepithelium, and choroid plexus forerunners during early CNS development. Nicholson-Flynn K, et al.
J Neurosci 1996 Nov 1;16(21):6853–63
The leaving or Q fraction of the murine cerebral proliferative epithelium: a general model of neocortical neuronogenesis. Takahashi T, et al. **J Neurosci** 1996 Oct 1;16(19):6183–96
Interkinetic and migratory behavior of a cohort of neocortical neurons arising in the early embryonic murine cerebral wall. Takahashi T, et al. **J Neurosci** 1996 Sep 15; 16(18):5762–76
Evidence of fetal cerebral vasodilatation induced by submaximal maternal dynamic exercise in human pregnancy. Bonnin P, et al. **J Perinat Med** 1997;25(1):63–70
Cloning, sequence, and developmental expression analysis of C4-2, a potential brain tumor-suppressor gene. Sehgal A, et al. **J Surg Oncol** 1997 Aug;65(4):249–57
Fatty acid composition of late embryonic and early postnatal rat brain. Green P, et al. **Lipids** 1996 Aug;31(8):859–65
Xotx genes in the developing brain of Xenopus laevis. Kablar B, et al. **Mech Dev** 1996 Apr;55(2):145–58
Expression of the winged helix genes fkh-4 and fkh-5 defines domains in the central nervous system. Kaestner KH, et al. **Mech Dev** 1996 Apr;55(2):221–30
Monitoring catecholamine differentiation in the embryonic brain and peripheral neurons using E. coli lacZ as a reporter gene. Kim SJ, et al. **Mol Cells** 1997 Jun 30;7(3):394–8
The kinetics and regulation of the induction of type II nitric oxide synthase and nitric oxide in human fetal glial cell cultures. Ding M, et al. **Mol Psychiatry** 1997 Mar; 2(2):117–9
Bipotent progenitor cell lines from the human CNS. Sah DW, et al. **Nat Biotechnol** 1997 Jun;15(6):574–80
Neuroepithelial progenitor cells explanted from human fetal brain proliferate and differentiate in vitro. Buc-Caron MH.
Neurobiol Dis 1995 Feb;2(1):37–47

Lipid peroxides are generated by the fetal rat brain after episodes of global ischemia in utero. Glozman S, et al. **Neurochem Res** 1997 Feb;22(2):201–8

DNA fragmentation in normal development of the human central nervous system: a morphological study during corticogenesis. Simonati A, et al. **Neuropathol Appl Neurobiol** 1997 Jun;23(3):203–11

Transient neuronal population of the internal capsule in the developing human cerebrum. Letinić K, et al. **Neuroreport** 1996 Sep 2;7(13):2159–62

Dynamic changes in expression of glutamate transporter mRNAs in developing brain. Shibata T, et al. **Neuroreport** 1996 Feb 29;7(3):705–9

Distribution of desensitization time constants of mouse embryonic-like nicotinic and homomeric GLUR6 glutamate receptor channels. Bufler J, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):173–6

Development of the mesencephalic and diencephalic catecholamine systems in human fetuses: uptake and release of catecholamines in vitro. Ugrumov M, et al. **Neurosci Lett** 1996 Jul 5;212(1):29–32

Changes in the expression of novel Cdk5 activator messenger RNA (p39nck5ai mRNA) during rat brain development. Cai XH, et al. **Neurosci Res** 1997 Aug;28(4):355–60

Expression of mRNA for a neuronal differentiation factor, TA2O, in developing rat brains. Tohda C, et al. **Neurosci Res** 1996 Mar;24(4):421–5

Expression of alpha 2 adrenoceptors during rat brain development--I. Alpha 2A messenger RNA expression. Winzer-Serhan UH, et al. **Neuroscience** 1997 Jan; 76(1):241–60

Expression of alpha 2 adrenoceptors during rat brain development--II. Alpha 2C messenger RNA expression and [3H]rauwolscine binding. Winzer-Serhan UH, et al. **Neuroscience** 1997 Jan;76(1):261–72

A magnetic resonance template for normal neuronal migration in the fetus. Chong BW, et al. **Neurosurgery** 1996 Jul;39(1):110–6

Cocaine concentrations in fetal C57BL/6 mouse brain relative to maternal brain and plasma [published erratum appears in Neurotoxicol Teratol 1997 Jan–Feb;19(1):75] Miller SR, et al. **Neurotoxicol Teratol** 1996 Nov–Dec; 18(6):645–9

Postneurulation rapid brain growth represents a critical time for encephalocele formation: a chick model. Gluckman TJ, et al. **Pediatr Neurosurg** 1996 Sep;25(3):130–6

Endogenous mu opioid systems and perioral responsiveness in the rat fetus. Petrov ES, et al. **Physiol Behav** 1997 Jul; 62(1):31–7

Expression and activation of SH2/PTB–containing ShcA adaptor protein reflects the pattern of neurogenesis in the mammalian brain. Conti L, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8185–90

Exposure to infection and brain development: cytokines in the pathogenesis of schizophrenia [letter] Gilmore JH, et al. **Schizophr Res** 1997 Apr 11;24(3):365–7

Fetal brain development of twins assessed in utero by ultrasound: implications for schizophrenia. Gilmore JH, et al. **Schizophr Res** 1996 May;19(2–3):141–9

Effects of X-irradiation on nerve growth factor in the developing mouse brain. Dimberg Y, et al. **Toxicol Lett** 1997 Jan 15;90(1):35–43

Oligodendrocyte origins. Miller RH. **Trends Neurosci** 1996 Mar;19(3):92–6 (37 ref.)

Building a brain: developmental insights in insects. Reichert H, et al. **Trends Neurosci** 1997 Jun;20(6):258–64 (56 ref.)

Development of fetal gyri, sulci and fissures: a transvaginal sonographic study. Monteagudo A, et al. **Ultrasound Obstet Gynecol** 1997 Apr;9(4):222–8

Morphological characteristics of the developing human brain during the embryonic period. Yoon H, et al. **Yonsei Med J** 1997 Feb;38(1):26–32

Formation and persistence of N7- and O6-methyl-guanine in DNA of chick embryo brain cells in ovo following administration of N-nitroso-N-methylurea. Schleifer S, et al. **Zentralbl Veterinarmed A** 1996 Dec;43(10):589–98

[Maternal environment and developmental brain damages] Tanaka H. **No To Hattatsu** 1997 May;29(3):183–9 (Eng. Abstr.) **(Jpn)**

[Effect of amniotic fluid on cell differentiation in neural tissue culture in pathologic embryo development (anencephaly)] Bobryshev IuV, et al. **Biull Eksp Biol Med** 1996 Jul; 122(7):87–90 **(Rus)**

[Inhibition of lipid peroxidation in rat brain synaptosomes by peptide and protein fraction isolated from human fetal brain] Dupin AM, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):233–5 **(Rus)**

[The reactions of different sections of human embryonic neuroepithelium to damage to the ventricular surface during explantation] Smirnov EB, et al. **Morfologiia** 1997; 111(1):15–8 (Eng. Abstr.) **(Rus)**

[Serotonin as a neurotrophic factor in the fetal brain: binding, capture and release in centers of axonal growth] Hernández Rodríguez J. **Gac Med Mex** 1994 Jul–Aug;130(4):246–52 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Altered nitric oxide synthase immunoreactivity in the brain of stroke-prone spontaneously hypertensive rats. Gotoh K, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):123–9

Localization of Menkes gene expression in the mouse brain; its association with neurological manifestations in Menkes model mice. Iwase T, et al. **Acta Neuropathol (Berl)** 1996; 91(5):482–8

Effects of angiotensin II on brain monoamine oxidase activity in non-hypoxic and hypoxic mice. Stancheva S, et al. **Acta Physiol Pharmacol Bulg** 1996;22(1):27–30

PAF-synthesizing enzymes in neural cells during differentiation and in gerbil brain during ischemia. Francescangeli E, et al. **Adv Exp Med Biol** 1996;416:21–7 (48 ref.)

Benzoylalanine analogues as inhibitors of rat brain kynureninase and kynurenine 3-hydroxylase. Giordani A, et al. **Adv Exp Med Biol** 1996;398:499–505

Enantiospecific synthesis and in vitro activity of selective inhibitors of rat brain kynureninase and kynurenine-3-hydroxylase. Giordani A, et al. **Adv Exp Med Biol** 1996;398:531–4

Cloning of rat and human kynurenine aminotransferase. Mosca M, et al. **Adv Exp Med Biol** 1996;398:449–54

Kynurenine pathway enzymes in brain. Properties of enzymes and regulation of quinolinic acid synthesis. Saito K, et al. **Adv Exp Med Biol** 1996;398:485–92 (42 ref.)

Human succinic semialdehyde dehydrogenase. Molecular cloning and chromosomal localization. Trettel F, et al. **Adv Exp Med Biol** 1997;414:253–60

The regulation of alcohol consumption in rats: the role of alcohol-metabolizing enzymes-catalase and aldehyde dehydrogenase. Gill K, et al. **Alcohol** 1996 Jul–Aug; 13(4):347–53

Interaction of exercise and ethanol on antioxidant enzymes in brain regions of the rat. Somani SM, et al. **Alcohol** 1996 Nov–Dec;13(6):603–10

Regulation of rat neuronal nitric oxide synthase activity by chronic alcoholization. Naassila M, et al. **Alcohol Alcohol** 1997 Jan–Feb;32(1):13–7

Distribution of catalase in rat brain: aminergic neurons as possible targets for ethanol effects. Zimatkin SM, et al. **Alcohol Alcohol** 1996 Mar;31(2):167–74

NOS activity in brain and endothelium: relation to hypercapnic rise of cerebral blood flow in rats. Fabricius M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2035–44

Central inhibition of nitric oxide synthase modulates upper gastrointestinal motor activity. Ohta D, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G417–24

Roles of IL-1 and TNF-alpha in endotoxin-induced activation of nitric oxide synthase in cultured rat brain cells. Romero LI, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R326–32

Localization of 2',5'-oligoadenylate synthetase and the enhancement of its activity with recombinant interferon-alpha A/D in the mouse brain. Asada-Kubota M, et al. **Anat Embryol (Berl)** 1997 Mar;195(3):251–7

Cyclooxygenase systems in the mammalian brain. Breder CD. **Ann N Y Acad Sci** 1997 Mar 15;813:296–301

Induction of cyclooxygenase-2 in the brain by cytokines. Cao C, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:307–9

Possible role of cyclooxygenase-2 in the brain vasculature in febrile response. Matsumura K, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:302–6

The effect of intravenous lipopolysaccharide on NADPH-diaphorase staining (= nitric oxide synthase activity) in the organum vasculosum laminae terminalis of guinea pigs. Sehic E, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:383–91

Brain superoxide dismutase, catalase, and glutathione peroxidase activities in amyotrophic lateral sclerosis. Przedborski S, et al. **Ann Neurol** 1996 Feb;39(2):158–65

Effects of protein-energy malnutrition on muscarinic receptor density and acetylcholinesterase activity in rat brain. Viana GS, et al. **Ann Nutr Metab** 1997;41(1):52–9

Cloning and expression of a cDNA encoding uridine kinase from mouse brain. Ropp PA, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):105–12

Regulation of CYP3A9 gene expression by estrogen and catalytic studies using cytochrome P450 3A9 expressed in Escherichia coli. Wang H, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):365–72

Neuropathy target esterase (NTE): molecular characterisation and cellular localisation. Glynn P. **Arch Toxicol Suppl** 1997;19:325–9 (10 ref.)

Systemic administration of anti-NGF antibodies to neonatal mice impairs 24-h retention of an inhibitory avoidance task while increasing ChAT immunoreactivity in the medial septum. Calamandrei G, et al. **Behav Brain Res** 1996 Aug; 78(2):81–91

Vinconate, a cognitive enhancer, and PI turnover-phospholipase C systems in the brain. Katsura M, et al. **Behav Brain Res** 1997 Feb;83(1–2):75–81

Bicuculline microinjections into the ventral tegmental area of the rat: alteration of self-stimulation thresholds and of cytochrome oxidase activity in the brain. Sandner G, et al. **Behav Brain Res** 1996 Sep;79(1–2):145–51

Expression of CYP2E1 during embryogenesis and fetogenesis in human cephalic tissues: implications for the fetal alcohol syndrome. Boutelet-Bochan H, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):443–7

Expression of the JNK2-alpha1 gene in the developing chick brain [published erratum appears in Biochem Biophys Res Commun 1997 Jul 18;236(2):538] Ishikawa T, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):489–92

Sphingomyelinase activity is enhanced in cerebral cortex of senescence-accelerated mouse-P/10 with advancing age. Kim SS, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):583–7

Characterization of rat receptor-like protein tyrosine phosphatase gamma isoforms. Shintani T, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):419–25

Molecular cloning and expression of cDNAs encoding rat brain and liver cytosolic long-chain acyl-CoA hydrolases. Yamada J, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):198–203

Isolation of 1-methyl-1,2,3,4-tetrahydroisoquinoline-synthesizing enzyme from rat brain: a possible Parkinson's disease-preventing enzyme. Yamakawa T, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):676–81

Identification of cytochrome P450 2E1 in rat brain. Yoo M, et al. **Biochem Biophys Res Commun** 1997 Feb 13; 231(2):254–6

Neuronal Cdc2-like kinase: from cell cycle to neuronal function. Tang D, et al. **Biochem Cell Biol** 1996; 74(4):419–29 (56 ref.)

Different kynurenine pathway enzymes limit quinolinic acid formation by various human cell types. Heyes MP, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):351–6

Release of secretory phospholipase A2 from rat neuronal cells and its possible function in the regulation of catecholamine secretion. Matsuzawa A, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):701–9

Cloning and characterization of a 92 kDa soluble phosphatidylinositol 4-kinase. Nakagawa T, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):643–9

Didecanoyl phosphatidylcholine is a superior substrate for assaying mammalian phospholipase D. Vinggaard AM, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):861–4

Properties of 26S proteasome purified from rat skeletal muscles: comparison with those of 26S proteasome from the rat brain. Akaishi T, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):1017–21

Properties of the regulatory subunit of cAMP-dependent protein kinase type II from human brain. Grozdova ID, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1159–66

Molecular cloning and expression of a cDNA encoding a protein tyrosine phosphatase from mouse brain. Park KS, et al. **Biochem Mol Biol Int** 1996 Nov;40(5):1025–32

Enzymatic synthesis of oleamide (cis-9, 10-octadecenoamide), an endogenous sleep-inducing lipid, by rat brain microsomes. Sugiura T, et al. **Biochem Mol Biol Int** 1996 Nov;40(5):931–8

Immunochemical studies on human, bovine and pig brain regulatory subunits of cAMP-dependent protein kinase type II. Sveshnikova EV, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):1063–70

A new type of major aminopeptidase in bovine brain. Yanagisawa J, et al. **Biochem Mol Med** 1996 Dec; 59(2):161–8

Selective mechanism-based inactivation of peptidylglycine alpha-hydroxylating monooxygenase in serum and heart atrium vs. brain. Bolkenius FN, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1695–702

Non-specific inhibition of protein kinases by S100B12 and S100A1B1. Brant S, et al. **Biochem Soc Trans** 1997 Feb; 25(1):74S

RT-PCR of fatty acid elongases. Kells AP, et al. **Biochem Soc Trans** 1997 Feb;25(1):20S

Degradation of pyroglutamyl-phenylalanyl-proline amide by a pyroglutamyl aminopeptidase purified from membrane fractions of bovine brain. Kelly JA, et al. **Biochem Soc Trans** 1997 Feb;25(1):114S

Glucose-6-phosphatase activity: a determinant of brain microsomal intactness. Middleditch C, et al. **Biochem Soc Trans** 1997 May;25(2):183S

The modulation of protein kinase C by bile salts. Morgan WA, et al. **Biochem Soc Trans** 1997 Feb;25(1):75S

Ganglioside GM1 potentiates the effect of IL-1 beta on neutral sphingomyelinase activity in rat brain synaptosomes. Nalivaeva NN, et al. **Biochem Soc Trans** 1997 May;25(2):214S

Evidence that an anti-SERCA1 monoclonal antibody recognizes the SERCA2b calcium pump in pig brain. Salvador JM, et al. **Biochem Soc Trans** 1997 May;25(2):169S

Inhibitory effects of platinum anticancer agents on rat brain protein kinase C. Sharma P, et al. **Biochem Soc Trans** 1997 Feb;25(1):73S

Identification of a peptide of the guanosine triphosphate binding site within brain glutamate dehydrogenase isoproteins using 8-azidoguanosine triphosphate. Cho SW, et al. **Biochemistry** 1996 Nov 5;35(44):13907–13

ATP-binding site of human brain hexokinase as studied by molecular modeling and site-directed mutagenesis. Zeng C, et al. **Biochemistry** 1996 Oct 8;35(40):13157–64

Casein kinase I alpha and alpha L: alternative splicing-generated kinases exhibit different catalytic properties. Zhang J, et al. **Biochemistry** 1996 Dec 17; 35(50):16319–27

Transferrin and ferritin modulate the activity of brain calcium-calmodulin-dependent phosphodiesterase. Yefimova MG, et al. **Biochemistry (Mosc)** 1997 Feb; 62(2):165–70

Glutathione alters the mode of calcium-mediated regulation of adenylyl cyclase in membranes from mouse brain. Nakamura J, et al. **Biochim Biophys Acta** 1997 May 23; 1339(2):239–46

Molecular cloning of a novel trypsin-like serine protease (neurosin) preferentially expressed in brain. Yamashiro K,

et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):11–4

Isolation and comparison of rat cDNAs encoding Ca2+/calmodulin–dependent protein kinase I isoforms. Yokokura H, et al. **Biochim Biophys Acta** 1997 Mar 7; 1338(1):8–12

Modification of brain glutamate dehydrogenase isoproteins with pyridoxal 5'-phosphate. Cho SW, et al. **Biochimie** 1996;78(10):817–21

Influence of ochratoxin A treatment on the activity of membrane bound enzymes in rat brain regions. Zanić-Grubišić T, et al. **Biol Chem Hoppe Seyler** 1996 Feb; 377(2):121–7

Effects of repeated administration of a kappa–opioid agonist on phorbol ester binding to membrane–bound protein kinase C in rat brain [published erratum appears in Biol Pharm Bull 1996 Jul;19(6):909] Feng Y, et al. **Biol Pharm Bull** 1996 Feb;19(2):303–4

Zinc–ion–dependent acid phosphatase exhibits magnesium–ion–dependent myo–inositol–1–phosphatase activity. Fujimoto S, et al. **Biol Pharm Bull** 1996 Jun; 19(6):882–5

Assay for tryptophan hydroxylase activity in rat brain by high–performance liquid chromatography with fluorescence detection. Iizuka R, et al. **Biol Pharm Bull** 1996 May;19(5):762–4

Inhibition of anandamide amidase activity in mouse brain microsomes by cannabinoids. Watanabe K, et al. **Biol Pharm Bull** 1996 Aug;19(8):1109–11

Effect of age, sex steroids, brain region, and genetic strain on brain inositol monophosphatase activity. Patishi Y, et al. **Biol Psychiatry** 1996 Oct 1;40(7):656–9

Enhanced protein kinase C activity and translocation in bipolar affective disorder brains. Wang HY, et al. **Biol Psychiatry** 1996 Oct 1;40(7):568–75

Widespread occurrence of ganglioside–stimulated protein kinase in animal brains. Chan KF, et al. **Biol Signals** 1997 Jan–Feb;6(1):21–8

Activity and subcellular distribution of protein kinase C (PKC) in muscle and brain of force–fed zinc–deficient rats. Kirchgessner M, et al. **Biol Trace Elem Res** 1996 Jun; 52(3):273–80

Increased neurons containing neuronal nitric oxide synthase in the brain of a hypoxic–ischemic neonatal rat model. Higuchi Y, et al. **Brain Dev** 1996 Sep–Oct;18(5):369–75

Distribution of the organellar Ca2+ transport ATPase SERCA2 isoforms in the cat brain. Baba–Aïssa F, et al. **Brain Res** 1996 Dec 16;743(1–2):141–53

Localization of nitric oxide synthase in the brain of the frog, Xenopus laevis. Brüning G, et al. **Brain Res** 1996 Nov 25; 741(1–2):331–43

Age–dependent increases in protein kinase C–alpha beta immunoreactivity and activity in the human brain: possible in vivo modulatory effects on guanine nucleotide regulatory G(i) proteins. Busquets X, et al. **Brain Res** 1996 Feb 26;710(1–2):28–34

Cathepsin D displays in vitro beta–secretase–like specificity. Chevallier N, et al. **Brain Res** 1997 Mar 7;750(1–2):11–9

Sleep and nitric oxide: effects of 7–nitro indazole, inhibitor of brain nitric oxide synthase. Dzoljic MR, et al. **Brain Res** 1996 Apr 29;718(1–2):145–50

Induction of heme oxygenase–1 (HO–1) in glia after traumatic brain injury. Fukuda K, et al. **Brain Res** 1996 Oct 14; 736(1–2):68–75

Localisation of NADPH diaphorase activity and NOS immunoreactivity in astroglia in normal adult rat brain. Gabbott PL, et al. **Brain Res** 1996 Apr 1;714(1–2):135–44

Nitric oxide synthase in the brain of a urodele amphibian (Pleurodeles waltl) and its relation to catecholaminergic neuronal structures. González A, et al. **Brain Res** 1996 Jul 15;727(1–2):49–64

Subcellular localization of neuronal nitric oxide synthase in the brain of a teleost; an immunoelectron and confocal microscopical study. Holmqvist B, et al. **Brain Res** 1997 Jan 16;745(1–2):67–82

Intracellular localization of cyclin–dependent kinase 5 (CDK5) in mouse neuron: CDK5 is located in both nucleus and cytoplasm. Ino H, et al. **Brain Res** 1996 Sep 2; 732(1–2):179–85

Amantadine: an antiparkinsonian agent inhibits bovine brain 60 kDa calmodulin–dependent cyclic nucleotide phosphodiesterase isozyme. Kakkar R, et al. **Brain Res** 1997 Feb 28;749(2):290–4

Decreased rat brain cytochrome oxidase activity after prolonged hypoxia. LaManna JC, et al. **Brain Res** 1996 May 13;720(1–2):1–6

Regional changes in constitutive, but not inducible NOS expression in the brains of mice infected with the LP–BM5 leukemia virus. Li Y, et al. **Brain Res** 1997 Mar 28; 752(1–2):107–16

Ipsilateral alterations in tryptophan hydroxylase activity in rat brain after hypothalamic 5,7–di–hydroxytryptamine lesion. Ljubić–Thibal V, et al. **Brain Res** 1996 Jun 17; 724(2):222–31

Immunohistochemical localization of ADP–ribosylarginine hydrolase in rodent CNS. Miyaoka T, et al. **Brain Res** 1997 Jan 23;746(1–2):1–9

Brain cell membrane Na+,K(+)–ATPase activity following severe hypoxic injury in the newborn piglet. Rosenkrantz TS, et al. **Brain Res** 1996 Aug 19;730(1–2):52–7

Free radical–induced elevation of ornithine decarboxylase activity in developing rat brain slices. Saito K, et al. **Brain Res** 1997 Jul 25;763(2):232–8

Aminopeptidase A antiserum inhibits intracerebroventricular angiotensin II–induced dipsogenic and pressor responses. Song L, et al. **Brain Res** 1997 Jan 2;744(1):1–6

Protein kinase C in focal ischemic rat brain: dual autoradiographic analysis of [14C]iodoantipyrine (IAP) and [3H]phorbol–12,13–dibutyrate (PDBu). Tohyama Y, et al. **Brain Res** 1997 Mar 7;750(1–2):155–60

Immunohistochemical presence of 5 alpha–reductase rat type 1–containing cells in the rat brain. Tsuruo Y, et al. **Brain Res** 1996 May 25;722(1–2):207–11

Ultrastructural localization of NADPH–diaphorase in the goldfish brain. Villani L, et al. **Brain Res** 1995 Dec 24; 705(1–2):332–6

A review of brain aromatase cytochrome P450. Lephart ED. **Brain Res Brain Res Rev** 1996 Jun;22(1):1–26 (335 ref.)

Nitric oxide synthase 1 and nitric oxide synthase 3 protein expression is regionally and temporally regulated in fetal brain. Northington FJ, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):1–14

Temporal and spatial expression of glutamic acid decarboxylases in human fetal brain. Chan SO, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):318–20

1,25–Dihydroxyvitamin D3 inhibits the expression of inducible nitric oxide synthase in rat central nervous system during experimental allergic encephalomyelitis. Garcion E, et al. **Brain Res Mol Brain Res** 1997 May;45(2):255–67

Creatine kinase–B mRNA levels in brain regions from male and female rats. Ilyin SE, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):50–6

Differential distribution of mRNA encoding cAMP–specific phosphodiesterase isoforms in the rat brain. Iwahashi Y, et al. **Brain Res Mol Brain Res** 1996 May;38(1):14–24

Comparison of tissue distribution of two novel serine/threonine kinase genes containing the LIM motif (LIMK–1 and LIMK–2) in the developing rat. Mori T, et al. **Brain Res Mol Brain Res** 1997 May;45(2):247–54

Differential expression patterns of GABA transporters (GAT1–3) in the rat olfactory bulb. Nishimura M, et al. **Brain Res Mol Brain Res** 1997 May;45(2):268–74

PRL–1, a protein tyrosine phosphatase, is expressed in neurons and oligodendrocytes in the brain and induced in the cerebral cortex following transient forebrain ischemia. Takano S, et al. **Brain Res Mol Brain Res** 1996 Aug; 40(1):105–15

Characterization of brain ecto–apyrase: evidence for only one ecto–apyrase (CD39) gene. Wang TF, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):295–302

Dynamic expression suggests multiple roles of the eph family receptor brain–specific kinase (Bsk) during mouse neurogenesis. Zhang JH, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):202–14

Possible role of protein kinase C in regulation of 5–hydroxytryptamine 2A receptors in rat brain. Rahimian R, et al. **Can J Physiol Pharmacol** 1995 Dec;73(12):1686–91

Allelism at the glutathione S–transferase GSTM3 locus: interactions with GSTM1 and GSTT1 as risk factors for astrocytoma. Hand PA, et al. **Carcinogenesis** 1996 Sep; 17(9):1919–22

Distribution of glyoxylate dehydrogenase activity in cortical and subcortical regions of the rat brain. A light microscopic histoenzymological study. Martínez–Rodríguez R, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Sep;42(6):873–80

Subcellular distribution of soluble and membrane–bound Arg–beta–naphthylamide hydrolyzing activities in the developing and aged rat brain. Arechaga G, et al. **Cell Mol Biol Res** 1995;41(5):369–75

The NADPH–diaphorase–containing system in the brain of the budgerigar (Melopsittacus undulatus). Cozzi B, et al. **Cell Tissue Res** 1997 Jan;287(1):101–12

Garsubellin A, a novel polyprenylated phloroglucin derivative, increasing choline acetyltransferase (ChAT) activity in postnatal rat septal neuron cultures. Fukuyama Y, et al. **Chem Pharm Bull (Tokyo)** 1997 May;45(5):947–9

Stereoselective inhibition of rat brain cyclooxygenase by dexketoprofen. Carabaza A, et al. **Chirality** 1997;9(3):281–5

O–methylation of (+)–(R)– and (–)–(S)–6,7–dihydroxy–1–methyl–1,2,3,4–tetrahydroisoquinoline (salsolinol) in the presence of pig brain catechol–O–methyltransferase. Hötzl BK, et al. **Chirality** 1997;9(4):367–72

Effect of pirimiphos–methyl on proteolytic enzyme activities in rat heart, kidney, brain and liver tissues in vivo. Mantle D, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):89–97

Comparison of proline endopeptidase activity in brain tissue from normal cases and cases with Alzheimer's disease, Lewy body dementia, Parkinson's disease and Huntington's disease. Mantle D, et al. **Clin Chim Acta** 1996 May 30; 249(1–2):129–39

Brain pyruvate oxidation in experimental thiamin–deficiency encephalopathy. Munujos P, et al. **Clin Chim Acta** 1996 Nov 15;255(1):13–25

Neurohumoral activation in heart failure: role of paraventricular nucleus. Patel KP, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):722–6 (42 ref.)

Expression of protein kinase C gene in the brain and heart of spontaneously hypertensive rats. Gao PJ, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S204–6

Role of an endogenous monoamine oxidase inhibitor, isatin, in SHRSP brain. Hamaue N, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S86–7

Regional distribution of superoxide dismutase in the brain and myocardium of the stroke–prone spontaneously hypertensive rat. Kimoto S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S160–1

Increased creatine kinase brain isoenzyme concentration in cerebrospinal fluid with meningitis. Nussinovitch M, et al. **Clin Pediatr (Phila)** 1996 Jul;35(7):349–51

Identification of neuronal isozyme specific residues by comparison of goldfish aldolase C to other aldolases. Berardini TZ, et al. **Comp Biochem Physiol A Physiol** 1997 Aug;117(4):471–6

Seasonal variation in the antioxidant defense system of the brain of the ground squirrel (Citellus citellus) and response to low temperature compared with rat. Buzadžić B, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):141–9

Differential expression of Na,K–ATPase isoforms in oligodendrocytes and astrocytes. Fink D, et al. **Dev Neurosci** 1996;18(4):319–26

Brain creatine kinases and phosphocreatine: an update. Holtzman D. **Dev Neurosci** 1996;18(5–6):522–3

Localization of mRNA for UDP–galactose: ceramide galactosyltransferase in the brain during mouse development. Kagawa T, et al. **Dev Neurosci** 1996; 18(4):309–18

Inactivation of brain and kidney aspartate aminotransferases by S–(1,2,–dichlorovinyl)–L–cysteine and by S–(1,1,2,2,–tetrafluoroethyl)–L–cysteine. Kato Y, et al. **Dev Neurosci** 1996;18(5–6):505–14

Thyroid hormone regulates rat placental type III iodothyronine deiodinase activity by inducing kinetic changes different from those in the same isozyme in rat brain. Mori K, et al. **Endocr J** 1995 Dec;42(6):753–60

Immunological identification and localization of yeast aspartic protease 3–like prohormone–processing enzymes in mammalian brain and pituitary. Cawley NX, et al. **Endocrinology** 1996 Nov;137(11):5135–43

Brain creatine kinase reaction rates and reactant concentrations during seizures in developing rats. Holtzman D, et al. **Epilepsy Res** 1997 Apr;27(1):7–11

Modulation of the catalytic activity of brain succinic semialdehyde reductase by reaction with pyridoxal 5'-phosphate. Hong JW, et al. **Eur J Biochem** 1997 Jul 1;247(1):274–9

Isolation and characterization of a cDNA from the rat brain that encodes hemoprotein heme oxygenase–3. McCoubrey WK Jr, et al. **Eur J Biochem** 1997 Jul 15;247(2):725–32

Detection of metal binding to bovine inositol monophosphatase by changes in the near and far ultraviolet regions of the CD spectrum. Rees–Milton K, et al. **Eur J Biochem** 1997 May 15;246(1):211–7

Tyrosinase, the key enzyme in melanin synthesis, is expressed in murine brain. Tief K, et al. **Eur J Biochem** 1996 Oct 1;241(1):12–6

MAO–A inhibition in brain after dosing with esuprone, moclobemide and placebo in healthy volunteers: in vivo studies with positron emission tomography. Bergström M, et al. **Eur J Clin Pharmacol** 1997;52(2):121–8

Modulation of tyrosine hydroxylase and aromatic L–amino acid decarboxylase after inhibiting monoamine oxidase–A. Cho S, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):51–9

Increased brain NAD prevents neuronal apoptosis in vivo. Mukherjee SK, et al. **Eur J Pharmacol** 1997 Jul 2; 330(1):27–34

Inhibition of brain cyclooxygenase–2 activity and the antipyretic action of nimesulide. Taniguchi Y, et al. **Eur J Pharmacol** 1997 Jul 9;330(2–3):221–9

The effects of hydergine on the MAO activity of the aged and adult rat brain. Büyüköztürk A, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):527–9

Maturational regulation and regional induction of cyclooxygenase–2 in rat brain: implications for Alzheimer's disease. Tocco G, et al. **Exp Neurol** 1997 Apr;144(2):339–49

Effect of repeated experience of victory and defeat in daily agonistic confrontations on brain tryptophan hydroxylase activity. Amstislavskaya TG, et al. **FEBS Lett** 1997 Apr 7;406(1–2):106–8

Inhibition of anandamide hydrolysis in rat brain tissue by (E)–6–(bromomethylene) tetrahydro–3–(1–naphthalenyl)–2H–pyran–2–one. Beltramo M, et al. **FEBS Lett** 1997 Feb 24;403(3):263–7

Cathepsin D is involved in the clearance of Alzheimer's beta–amyloid protein. Hamazaki H. **FEBS Lett** 1996 Nov 4;396(2–3):139–42

SAP kinase–3, a new member of the family of mammalian stress–activated protein kinases. Mertens S, et al. **FEBS Lett** 1996 Apr 1;383(3):273–6

The role of creatine kinase in inhibition of mitochondrial permeability transition. O'Gorman E, et al. **FEBS Lett** 1997 Sep 8;414(2):253–7

Bromocriptine is a strong inhibitor of brain nitric oxide synthase: possible consequences for the origin of its therapeutic effects. Renodon A, et al. **FEBS Lett** 1997 Apr 7;406(1–2):33–6

Evidence that a specific succinic semialdehyde reductase is responsible for gamma–hydroxybutyrate synthesis in brain tissue slices. Rumigny JF, et al. **FEBS Lett** 1981 Nov 2; 134(1):96–8

Cholesterol synthesis in the rat brain in course of late development as determined by 3–hydroxy–3–methylglutaryl CoA reductase activity. Michalak S, et al. **Folia Neuropathol** 1996;34(1):7–10

Nitric oxide synthase in cat brain: cofactors––enzyme–substrate interaction. Côté JF, et al.

Free Radic Biol Med 1996;21(1):109–15
11beta–Hydroxysteroid dehydrogenase in the brain: a novel regulator of glucocorticoid action? Seckl JR. **Front Neuroendocrinol** 1997 Jan;18(1):49–99 (265 ref.)
Effects of long–term treatment with dicyclic, tricyclic, tetracyclic, and noncyclic antidepressant drugs on monoamine oxidase activity in mouse brain. Egashira T, et al. **Gen Pharmacol** 1996 Jul;27(5):773–8
Valproic acid differs in its in vitro effect on glutamic acid decarboxylase activity in neonatal and adult rat brain. Wikinski SI, et al. **Gen Pharmacol** 1996 Jun;27(4):635–8
Cloning of the cDNA coding for rat brain CMP–NeuAc:GD3 alpha2–8 sialyltransferase. Zeng G, et al. **Gene** 1997 Mar 10;187(1):131–4
Ultrastructural localization of glycogen phosphorylase predominantly in astrocytes of the gerbil brain. Richter K, et al. **Glia** 1996 Aug;17(4):263–73
Tissue–specific regulation of sialyltransferase activities in the rat by corticosteroids in vivo. Coughlan CM, et al. **Glycobiology** 1996 Jan;6(1):15–22
CMP–NeuAc:(NeuAc alpha 2–>8)n (colominic acid) sialyltransferase activity in rat brain and in tumour cells that express polysialic acid on neural cell adhesion molecules. Easton EW, et al. **Glycoconj J** 1995 Dec; 12(6):829–37
Purification, properties, and immunological characterization of GalT–3 (UDP–galactose: GM2 ganglioside, beta 1–3 galactosyltransferase) from embryonic chicken brain. Ghosh S, et al. **Glycoconj J** 1995 Dec;12(6):838–47
Site restricted and neuron dominant expression of alpha 2,8sialyltransferase gene in the adult mouse brain and retina. Yamamoto A, et al. **Glycoconj J** 1996 Jun;13(3):471–80
Cellular expression of MAP 2 kinase in rat brain. Jacobowitz DM, et al. **Histochem Cell Biol** 1996 Sep;106(3):303–10
Something completely different? Hardwick JP, et al. **Hum Exp Toxicol** 1996 Jun;15(6):543–4
Hidden persuasion. Jenner P. **Hum Exp Toxicol** 1996 Aug; 15(8):696–8
Effect of anoxia and reoxygenation on antioxidant enzyme activities in immortalized brain endothelial cells. Rabin O, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr;32(4):221–4
Different distribution of dihydrolipoamide succinyltransferase, dihydrolipoamide acetyltransferase and ATP synthase beta–subunit in monkey brain. Takase C, et al. **In Vivo** 1996 Sep–Oct;10(5):495–501
Regulation and properties of purified glucose–6–phosphate dehydrogenase from rat brain. Askar MA, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):512–8
Glutamate dehydrogenase induction in the brain of streptozotocin diabetic rats. Nair P, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):428–30
Physico–chemical properties of brain cathepsin H. Raghav N, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):279–85
Inhibition of rat brain nitric oxide synthase activity by cyclosporin–A. Rao MR, et al. **Indian J Exp Biol** 1996 Dec;34(12):1265–7
Bovine brain pyroglutamyl aminopeptidase (type–1): purification and characterisation of a neuropeptide–inactivating peptidase. Cummins PM, et al. **Int J Biochem Cell Biol** 1996 Aug;28(8):883–93
Purification and characterization of a novel membrane–bound form of prolyl endopeptidase from bovine brain. O'Leary RM, et al. **Int J Biochem Cell Biol** 1996 Apr;28(4):441–9
Subcellular study of the pGlu–peptidase I activity during the rat brain development. Irazusta J, et al. **Int J Dev Biol** 1996;Suppl 1:147S–148S
Developmental changes of Tyr–aminopeptidase activity in different subcellular fractions of the subcortical region of the rat brain. Varona A, et al. **Int J Dev Biol** 1996;Suppl 1:165S–166S
DNA polymerases delta and epsilon in developing and aging rat brain. Prapurna DR, et al. **Int J Dev Neurosci** 1997 Feb;15(1):67–73
Measurement of neutrophil content in brain and lung tissue by a modified myeloperoxidase assay. Kuebler WM, et al. **Int J Microcirc Clin Exp** 1996 Mar–Apr;16(2):89–97
Lanosterol 14–demethylase activity expressed in rat brain microsomes. Aoyama Y, et al. **J Biochem (Tokyo)** 1996 Nov;120(5):982–6
Structural and functional characterization of the human brain D–aspartate oxidase. Setoyama C, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):798–803
The molecular cloning and expression of alpha 2,8–sialyltransferase (GD3 synthase) in a rat brain. Watanabe Y, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):1020–7
Maturational differences in chlorpyrifos–oxonase activity may contribute to age–related sensitivity to chlorpyrifos. Mortensen SR, et al. **J Biochem Toxicol** 1996;11(6):279–87
The effect of high and low dosages of paraoxon in beta–naphthoflavone–treated rats. Watson AM, et al. **J Biochem Toxicol** 1996;11(6):263–8
Isolation and molecular cloning of wortmannin–sensitive bovine type III phosphatidylinositol 4–kinases. Balla T, et al. **J Biol Chem** 1997 Jul 18;272(29):18358–66
Isoprenylated human brain type I inositol 1,4,5–trisphosphate 5–phosphatase controls Ca2+ oscillations induced by ATP in Chinese hamster ovary cells. De Smedt F, et al. **J Biol Chem** 1997 Jul 11;272(28):17367–75
Plasma membrane Ca2+ pump in rat brain. Patterns of alternative splices seen by isoform–specific antibodies. Filoteo AG, et al. **J Biol Chem** 1997 Sep 19;272(38):23741–7
Cloning of a novel human diacylglycerol kinase (DGKtheta) containing three cysteine–rich domains, a proline–rich region, and a pleckstrin homology domain with an overlapping Ras–associating domain. Houssa B, et al. **J Biol Chem** 1997 Apr 18;272(16):10422–8
Genomic cloning and protein expression of a novel rat brain cytochrome P–450 CYP2D18* catalyzing imipramine N–demethylation. Kawashima H, et al. **J Biol Chem** 1996 Nov 8;271(45):28176–80
Cloning, expression, and characterization of a novel phospholipase D complementary DNA from rat brain. Kodaki T, et al. **J Biol Chem** 1997 Apr 25;272(17):11408–13
Zyme, a novel and potentially amyloidogenic enzyme cDNA isolated from Alzheimer's disease brain. Little SP, et al. **J Biol Chem** 1997 Oct 3;272(40):25135–42
Expression cloning of rat cDNA encoding UDP–galactose:GD2 beta1,3–galactosyltransferase that determines the expression of GD1b/GM1/GA1. Miyazaki H, et al. **J Biol Chem** 1997 Oct 3;272(40):24794–9
Multimerization of the cytoplasmic domain of syndecan–4 is required for its ability to activate protein kinase C. Oh ES, et al. **J Biol Chem** 1997 May 2;272(18):11805–11
Expression of the type II iodothyronine deiodinase in cultured rat astrocytes is selenium–dependent. Pallud S, et al. **J Biol Chem** 1997 Jul 18;272(29):18104–10
Gene cloning and characterization of CDP–diacylglycerol synthase from rat brain. Saito S, et al. **J Biol Chem** 1997 Apr 4;272(14):9503–9
Novel Ca2+/calmodulin–dependent protein kinase II gamma–subunit variants expressed in vascular smooth muscle, brain, and cardiomyocytes. Singer HA, et al. **J Biol Chem** 1997 Apr 4;272(14):9393–400
Purification and cDNA cloning of porcine brain GDP–L–Fuc:N–acetyl–beta–D–glucosaminide alpha1–>6fucosyltransferase. Uozumi N, et al. **J Biol Chem** 1996 Nov 1;271(44):27810–7
Synaptojanin is the major constitutively active phosphatidylinositol–3,4,5–trisphosphate 5–phosphatase in rodent brain. Woscholski R, et al. **J Biol Chem** 1997 Apr 11;272(15):9625–8
The calmodulin–dependent phosphodiesterase gene PDE1C encodes several functionally different splice variants in a tissue–specific manner. Yan C, et al. **J Biol Chem** 1996 Oct 11;271(41):25699–706
Cloning and characterization of a novel Cdc42–associated tyrosine kinase, ACK–2, from bovine brain. Yang W, et al. **J Biol Chem** 1997 Oct 3;272(40):24819–24
Isolation and characterization of a prenylcysteine lyase from bovine brain. Zhang L, et al. **J Biol Chem** 1997 Sep 12; 272(37):23354–9
Specific degradation of subendothelial matrix proteoglycans by brain–metastatic melanoma and brain endothelial cell heparanases. Marchetti D. **J Cell Physiol** 1997 Sep; 172(3):334–42
A cdc2–like kinase distinct from cdk5 is associated with neurofilaments. Starr R, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1565–73
Hypoxia–ischemia, but not hypoxia alone, induces the expression of heme oxygenase–1 (HSP32) in newborn rat brain. Bergeron M, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):647–58
Selective distribution of lactate dehydrogenase isoenzymes in neurons and astrocytes of human brain. Bittar PG, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1079–89
Developmental and regional differences in nitric oxide synthase activity and blood flow in the sheep brain. Northington FJ, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):109–15
Thrombin stimulates activation of the cerebral 5–lipoxygenase pathway during blood–brain cell contact. Winking M, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):737–45
Autoradiographic localization of [3H]–cyclic GMP binding sites in the rat brain. Bladen C, et al. **J Chem Neuroanat** 1996 Jun;10(3–4):287–93
Coexistence of NADPH–diaphorase and tyrosine hydroxylase in the mesencephalic catecholaminergic system of the Japanese quail. Panzica GC, et al. **J Chem Neuroanat** 1996 Jul;11(1):37–47
Distribution of nitric oxide synthase–immunoreactive neurons in fetal rat brains at embryonic day 15 and day 19. Terada H, et al. **J Chem Neuroanat** 1996 Jun;10(3–4):273–8
Protein kinase C in central auditory pathways of the rat. Garcia MM, et al. **J Comp Neurol** 1997 Aug 18;385(1):1–25
Immunolocalization of glutathione reductase in the murine brain. Knollema S, et al. **J Comp Neurol** 1996 Sep 16; 373(2):157–72
Distribution of choline acetyltransferase immunoreactivity in the brain of anuran (Rana perezi, Xenopus laevis) and urodele (Pleurodeles waltl) amphibians. Marín O, et al. **J Comp Neurol** 1997 Jun 16;382(4):499–534
Distribution of NADPH–diaphorase and nitric oxide synthase in relation to catecholaminergic neuronal structures in the brain of the lizard Gekko gecko. Smeets WJ, et al. **J Comp Neurol** 1997 Jan 6;377(1):121–41
Nitric oxide synthase in learning–relevant nuclei of the chick brain: morphology, distribution, and relation to transmitter phenotypes. von Bartheld CS, et al. **J Comp Neurol** 1997 Jun 30;383(2):135–52
Inducible nitric oxide synthase in tangle–bearing neurons of patients with Alzheimer's disease. Vodovotz Y, et al. **J Exp Med** 1996 Oct 1;184(4):1425–33
A Cl– pump in rat brain neurons. Inagaki C, et al. **J Exp Zool** 1996 Jul 1;275(4):262–8
An atlas of the distribution of NADPH–diaphorase in the brain of the highly derived swordtail fish Xiphophorus helleri (Atherinoformes:Teleostei). Anken RH, et al. **J Hirnforsch** 1996;37(3):421–49
Topography of the NADPH–diaphorase system in the chameleon brain. Bennis M, et al. **J Hirnforsch** 1996; 37(2):281–8
Correlation of altered gravity and cytochrome oxidase activity in the developing fish brain. Paulus U, et al. **J Hirnforsch** 1996;37(1):103–7
Cellular distribution of branched–chain amino acid aminotransferase isoenzymes among rat brain glial cells in culture. Bixel MG, et al. **J Histochem Cytochem** 1997 May; 45(5):685–94
Differential expression of the carbonic anhydrase genes for CA VII (Car7) and CA–RP VIII (Car8) in mouse brain. Lakkis MM, et al. **J Histochem Cytochem** 1997 May; 45(5):657–62
Decrease of brain protein kinase C, protein kinase A, and cyclin–dependent kinase correlating with pH precedes neuronal death in neonatal asphyxia. Lubec B, et al. **J Investig Med** 1997 Jun;45(5):284–94
Roles of phospholipases A2 in brain cell and tissue injury associated with ischemia and excitotoxicity [corrected and republished article originally printed in J Lipid Mediat Cell Signal 1996 Sep; 14(1–3):15–23] Bonventre JV. **J Lipid Mediat Cell Signal** 1997 Jul;16(3):199–208 (56 ref.)
Roles of phospholipases A2 in brain cell and tissue injury associated with ischemia and excitotoxicity [corrected and republished in J Lipid Mediat Cell Signal 1997 Jul;16(3):199–208] Bonventre JV. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):15–23 (55 ref.)
Heterogeneity of diacylglycerol kinase in terms of molecular structure, biochemical characteristics and gene expression localization in the brain. Goto K, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):251–7 (7 ref.)
Activation of rat brain protein kinase C by eicosapentaenoic acid–containing diacylglycerol. Vernhet L, et al. **J Lipid Mediat Cell Signal** 1996 Dec;15(1):45–7
Effects of perinatal exposure to delta 9–tetrahydrocannabinol on the fetal and early postnatal development of tyrosine hydroxylase–containing neurons in rat brain. Bonnin A, et al. **J Mol Neurosci** 1996 Winter;7(4):291–308
Differential effects of hypothyroidism on Na–K–ATPase mRNA alpha isoforms in the developing rat brain. Chaudhury S, et al. **J Mol Neurosci** 1996 Fall;7(3):229–34
Peripheral and central inhibitors of catechol–O–methyl transferase: effects on liver and brain COMT activity and L–DOPA metabolism. Brannan T, et al. **J Neural Transm** 1997;104(1):77–87
Immunocytochemical localization of GTP cyclohydrolase I in the brain, adrenal gland, and liver of mice. Nagatsu I, et al. **J Neural Transm Gen Sect** 1995;102(3):175–188
Differential regulation of choline acetyltransferase expression in adult Drosophila melanogaster brain. Yasuyama K, et al. **J Neurobiol** 1996 Jun;30(2):205–18
Neurotransmitter–mediated regulation of brain aromatase: protein kinase C– and G–dependent induction. Abe–Dohmae S, et al. **J Neurochem** 1996 Nov; 67(5):2087–95
Changes in brain protease activity in aging. Benuck M, et al. **J Neurochem** 1996 Nov;67(5):2019–29
Evidence for circadian variations of thyroid hormone concentrations and type II 5'–iodothyronine deiodinase activity in the rat central nervous system. Campos–Barros A, et al. **J Neurochem** 1997 Feb;68(2):795–803
Chromatographic discrimination of soluble neuropathy target esterase isoenzymes and related phenyl valerate esterases from chicken brain, spinal cord, and sciatic nerve. Escudero MA, et al. **J Neurochem** 1997 May;68(5):2170–6
Phospholipase A2 and its role in brain tissue. Farooqui AA, et al. **J Neurochem** 1997 Sep;69(3):889–901 (106 ref.)
Nature of inhibition of mitochondrial respiratory complex I by 6–Hydroxydopamine. Glinka Y, et al. **J Neurochem** 1996 May;66(5):2004–10
Essential active–site lysine of brain glutamate dehydrogenase isoproteins. Kim SW, et al. **J Neurochem** 1997 Jul; 69(1):418–22
Phosphorylation and activation of brain tryptophan hydroxylase: identification of serine–58 as a substrate site for protein kinase A. Kuhn DM, et al. **J Neurochem** 1997 May;68(5):2220–3
A novel cdc2–related protein kinase expressed in the nervous system. Lazzaro MA, et al. **J Neurochem** 1997 Jul; 69(1):348–64
Inhibition of prolyl oligopeptidase by Fmoc–aminoacylpyrrolidine–2–nitriles. Li J, et al. **J Neurochem** 1996 May;66(5):2105–12
Differential expression of type I, II, and V adenylyl cyclase gene in the postnatal developing rat brain. Matsuoka I, et al. **J Neurochem** 1997 Feb;68(2):498–506
Lipopolysaccharide and interleukin–1beta augmented histidine decarboxylase activity in cultured cells of the rat embryonic brain. Niimi M, et al. **J Neurochem** 1997 Aug; 69(2):851–8
Inhibition of inducible nitric oxide synthase expression by endothelin in rat glial cells prepared from the neonatal rat brain. Oda H, et al. **J Neurochem** 1997 Aug;69(2):669–74
The Lck tyrosine kinase is expressed in brain neurons. Omri B, et al. **J Neurochem** 1996 Oct;67(4):1360–4

Expression of androgen-activating enzymes in cultured cells of developing rat brain. Poletti A, et al. **J Neurochem** 1997 Mar;68(3):1298-303

Sialidase activity in nuclear membranes of rat brain. Saito M, et al. **J Neurochem** 1996 May;66(5):2205-8

Agmatinase activity in rat brain: a metabolic pathway for the degradation of agmatine. Sastre M, et al. **J Neurochem** 1996 Oct;67(4):1761-5

Novel isoforms of rat brain fructose 6-phosphate 2-kinase/fructose 2,6-bisphosphatase are generated by tissue-specific alternative splicing. Watanabe F, et al. **J Neurochem** 1997 Jul;69(1):1-9

Cellular distribution of 6-phosphofructo-1-kinase isoenzymes in rat brain. Zeitschel U, et al. **J Neurochem** 1996 Dec;67(6):2573-80

Transient expression of NADPH diaphorase activity in the mouse whisker to barrel field pathway. Mitrovic N, et al. **J Neurocytol** 1996 Aug;25(8):429-37

Study of the antioxidant enzymes in human brain tumors. Pu PY, et al. **J Neurooncol** 1996 Aug;29(2):121-8

Immunocytochemical characterization of the expression of inducible and constitutive isoforms of nitric oxide synthase in demyelinating multiple sclerosis lesions. De Groot CJ, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):10-20

Distribution, levels, and activity of glycogen synthase kinase-3 in the Alzheimer disease brain. Pei JJ, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):70-8

Specific induction of protein kinase C delta subspecies after transient middle cerebral artery occlusion in the rat brain: inhibition by MK-801. Miettinen S, et al. **J Neurosci** 1996 Oct 1;16(19):6236-45

Cyclo-oxygenase-2 gene expression in neurons contributes to ischemic brain damage. Nogawa S, et al. **J Neurosci** 1997 Apr 15;17(8):2746-55

Detection of ligands in regions anatomically connected to neurons expressing the Eph receptor Bsk: potential roles in neuron-target interaction. Zhang JH, et al. **J Neurosci** 1996 Nov 15;16(22):7182-92

Injection of dye into neurones in rat and human post-mortem brain, in combination with acetylcholinesterase histochemistry: permanent preparations. Loopuijt LD, et al. **J Neurosci Methods** 1997 Aug 22;75(2):161-9

Molecular forms of acetyl- and butyrylcholinesterase in normal and dystrophic mouse brain. Moral-Naranjo MT, et al. **J Neurosci Res** 1996 Jan 15;43(2):224-34

Effects of traumatic brain injury on the cholinergic system in the rat. Gorman LK, et al. **J Neurotrauma** 1996 Aug; 13(8):457-63

Paradoxical effect of an aromatase inhibitor, CGS 20267, on aromatase activity in guinea pig brain. Choate JV, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):411-5

Regional distribution of cytosolic and particulate 5alpha-dihydroprogesterone 3alpha-hydroxysteroid oxidoreductases in female rat brain. Li X, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5-6):311-8

Total cholinesterase activity in discrete brain regions and retina of normal horses. Plumlee KH, et al. **J Vet Diagn Invest** 1997 Jan;9(1):109-10

Further studies of brain cholinesterase: cholinergic receptor ratios in the diagnosis of acute lethal poisoning of birds by anticholinesterase pesticides. Burn JD, et al. **J Wildl Dis** 1996 Apr;32(2):216-24

Measurement of acetylcholinesterase by positron emission tomography in the brains of healthy controls and patients with Alzheimer's disease. Iyo M, et al. **Lancet** 1997 Jun 21;349(9068):1805-9

Inhibition of bovine brain calmodulin-dependent cyclic nucleotide phosphodiesterase isozymes by deprenyl. Kakkar R, et al. **Life Sci** 1996;59(21):PL337-41

Inhibition of brain monoamine oxidase by adducts of 1,2,3,4-tetrahydroisoquinoline with components of cigarette smoke. Méndez-Alvarez E, et al. **Life Sci** 1997; 60(19):1719-27

Phospholipid biosynthetic enzymes in human brain. Ross BM, et al. **Lipids** 1997 Apr;32(4):351-8

Long-term effects of caloric restriction initiated at different ages on DNA polymerases in rat brain. Prapurna DR, et al. **Mech Ageing Dev** 1996 Dec 20;92(2-3):133-42

Inactivation of brain Na+,K(+)-ATPase catalytic subunit isoforms by sodium dodecyl sulfate. Kaplya A, et al. **Membr Cell Biol** 1997;11(1):87-99

Effects of hyperammonemia on brain protein kinase C substrates. Grau E, et al. **Metab Brain Dis** 1996 Sep; 11(3):205-16 (48 ref.)

Localization of neuronal nitric oxide synthase. Chao DS, et al. **Methods Enzymol** 1996;268:488-96

Generation of isoform-specific antibodies to nitric oxide synthases. Dawson TM, et al. **Methods Enzymol** 1996; 268:349-58

Immunohistochemical localization of nitric oxide synthases. Förstermann U, et al. **Methods Enzymol** 1996;268:510-5

Purification of isoforms of nitric oxide synthase. Förstermann U, et al. **Methods Enzymol** 1996;268:334-9

Purification and inhibitor screening of human nitric oxide synthase isozymes. Garvey EP, et al. **Methods Enzymol** 1996;268:339-49

Carbon monoxide and nitric oxide homology: differential modulation of heme oxygenases in brain and detection of protein and activity. Maines M. **Methods Enzymol** 1996; 268:473-88

Large-scale purification of rat brain nitric oxide synthase from baculovirus overexpression system. Mayer B, et al. **Methods Enzymol** 1996;268:420-7

Electrophoretic techniques for isolation and quantification of oxidative phosphorylation complexes from human tissues. Schägger H. **Methods Enzymol** 1996;264:555-66

NADPH diaphorase activity in activated astrocytes representing inducible nitric oxide synthase. Wallace MN. **Methods Enzymol** 1996;268:497-503

Cloned and expressed nitric oxide synthase proteins. Xia H, et al. **Methods Enzymol** 1996;268:427-36

Analysis of nitrite, nitrate, and nitric oxide synthase activity in brain tissue by automated flow injection technique. Yokoi I, et al. **Methods Enzymol** 1996;268:152-9

Anatomical distribution of NADPH-cytochrome P450 reductase and cytochrome P4502D forms in rat brain: effects of xenobiotics and sex steroids. Bergh AF, et al. **Mol Cell Biochem** 1996 Sep 6;162(1):31-41

The association of tubulin carboxypeptidase activity with microtubules in brain extracts is modulated by phosphorylation/dephosphorylation processes. Sironi JJ, et al. **Mol Cell Biochem** 1997 May;170(1-2):9-16

A brain protein (P30) that immunoreacts with a polyclonal anti-pancreatic carboxypeptidase A antibody shows properties that are shared with tubulin carboxypeptidase. Weizetfel JC, et al. **Mol Cell Biochem** 1997 May; 170(1-2):139-46

Identification of type 1 5alpha-reductase in myelin membranes of male and female rat brain. Poletti A, et al. **Mol Cell Endocrinol** 1997 May 16;129(2):181-90

Molecular cloning of a novel type I receptor serine/threonine kinase for the TGF beta superfamily from rat brain. Tsuchida K, et al. **Mol Cell Neurosci** 1996 Jun;7(6):467-78

Distribution of succinic semialdehyde reductase in rat brain. Lee JE, et al. **Mol Cells** 1997 Feb 28;7(1):13-20

Aberrant expression of the constitutive endothelial nitric oxide synthase gene in Alzheimer disease. de la Monte SM, et al. **Mol Chem Neuropathol** 1997 Jan-Feb;30(1-2):139-59

Alterations in the neutral proteinase activities of central and peripheral nervous systems of acrylamide-, carbon disulfide-, or 2,5-hexanedione-treated rats. Gupta RP, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):53-66

Brain lysosomal hydrolases in neuronal ceroid-lipofuscinoses. Prasad VV, et al. **Mol Chem Neuropathol** 1996 Oct-Dec; 29(2-3):169-79

Cytochrome P450 in the breast and brain: role in tissue-specific activation of xenobiotics. Warner M, et al. **Mutat Res** 1997 May 12;376(1-2):79-85

Imprinting of the Angelman syndrome gene, UBE3A, is restricted to brain [letter] Hoffman AR. **Nat Genet** 1997 Sep;17(1):12-3

The Angelman syndrome candidate gene, UBE3A/E6-AP, is imprinted in brain [letter] Rougeulle C, et al. **Nat Genet** 1997 Sep;17(1):14-5

Brain acetylhydrolase that inactivates platelet-activating factor is a G-protein-like trimer. Ho YS, et al. **Nature** 1997 Jan 2;385(6611):89-93

Inhibition of rat brain monoamine oxidase enzymes by fluoxetine and norfluoxetine. Holt A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):17-24

Expression of neuronal nitric oxide synthase corresponds to regions of selective vulnerability to hypoxia-ischaemia in the developing rat brain. Black SM, et al. **Neurobiol Dis** 1995 Jun;2(3):145-55

Cytosolic phospholipase A2 (cPLA2) immunoreactivity is elevated in Alzheimer's disease brain. Stephenson DT, et al. **Neurobiol Dis** 1996 Feb;3(1):51-63

Conditioned taste aversion and protein kinase C in the parabrachial nucleus of rats. Krivanek J. **Neurobiol Learn Mem** 1996 Mar;65(2):154-62

The distribution of nitrerg neurons in the brain of carp and the effect of NOS specific inhibitors on their NADPH diaphorase activity. Erdei-Griff C, et al. **Neurobiology (Bp)** 1996;4(3):259-60

NG-nitro-L-[3H]arginine binding properties of neuronal nitric oxide synthase in rat brain. Arima T, et al. **Neurochem Int** 1997 Mar;30(3):239-45

Effects of kyotorphin (L-tyrosyl-L-arginine) ON[3H]NG-nitro-L-arginine binding to neuronal nitric oxide synthase in rat brain. Arima T, et al. **Neurochem Int** 1997 Jun;30(6):605-11

Human brain GABA transaminase is immunologically distinct from those of other mammalian brains. Choi EY, et al. **Neurochem Int** 1996 May-Jun;28(5-6):597-600

Influence of the thyroid hormone status on tyrosine hydroxylase in central and peripheral catecholaminergic structures. Claustre J, et al. **Neurochem Int** 1996 Mar; 28(3):277-81

Specificity of cysteine sulfinate decarboxylase (CSD) for sulfur-containing amino-acids. Do KQ, et al. **Neurochem Int** 1996 Apr;28(4):363-71

Characterization of microtubule-associated protein 1-associated protein kinases from rat brain. Fujii T, et al. **Neurochem Int** 1996 May-Jun;28(5-6):535-44

Protein kinase C from bat brain: the enzyme from a hibernating mammal. Mehrani H, et al. **Neurochem Int** 1997 Jul;31(1):139-50

Enhanced (Na+K)-ATPase activity and expression in mouse brain after chronic ethanol administration. Chen Y, et al. **Neurochem Res** 1997 May;22(5):583-8

Human aging brain disorders: role of antioxidant enzymes. de la Torre MR, et al. **Neurochem Res** 1996 Aug; 21(8):885-8

Spermine partially normalizes in vivo antioxidant defense potential in certain brain regions in transiently hypoperfused rat brain. Farbiszewski R, et al. **Neurochem Res** 1996 Dec;21(12):1497-503

Characterization of brain beta-carboline-2-N-methyltransferase, an enzyme that may play a role in idiopathic Parkinson's disease. Gearhart DA, et al. **Neurochem Res** 1997 Feb;22(2):113-21

Metrifonate and dichlorvos: effects of a single oral administration on cholinesterase activity in rat brain and blood. Hinz V, et al. **Neurochem Res** 1996 Mar;21(3):339-45

Metrifonate induces cholinesterase inhibition exclusively via slow release of dichlorvos. Hinz VC, et al. **Neurochem Res** 1996 Mar;21(3):331-7

Differential responsiveness of late passage C-6 glial cells and advanced passages of astrocytes derived from aged mouse cerebral hemispheres to cytokines and growth factors: glutamine synthetase activity. Kazazoglou T, et al. **Neurochem Res** 1996 May;21(5):609-14

Development of glial cells cultured from prenatally alcohol treated rat brain: effect of supplementation of the maternal alcohol diet with a grape extract. Ledig M, et al. **Neurochem Res** 1996 Mar;21(3):313-7

Partial purification of a phosphoethanolamine methyltransferase from rat brain cytosol. Mukherjee S, et al. **Neurochem Res** 1995 Oct;20(10):1233-7

Down-regulation of S-adenosylhomocysteine hydrolase in the active methyl transfer system in the brain of genetically epileptic El mice. Ohmori O, et al. **Neurochem Res** 1996 Oct;21(10):1173-80

Differential properties between an endogenous brain Na+, K(+)-ATPase inhibitor and ouabain. Peña C, et al. **Neurochem Res** 1997 Apr;22(4):379-83

Kinetics of K(+)-p-nitrophenyl phosphatase stimulation by a brain soluble fraction. Rodriguez de Lores Arnaiz G. **Neurochem Res** 1997 Feb;22(2):215-9

Properties of a Zn(2+)-glycerophosphocholine cholinephosphodiesterase from bovine brain membranes. Sok DE. **Neurochem Res** 1996 Oct;21(10):1193-9

Inhibition of neuronal cyclin-dependent kinase-5 by staurosporine and purine analogs is independent of activation by Munc-18. Veeranna, et al. **Neurochem Res** 1996 May;21(5):629-36

Evidence that brain nitric oxide synthase is the major nitric oxide synthase isoform in the hypothalamus of the adult female rat and that nitric oxide potently regulates hypothalamic cGMP levels. Bhat G, et al. **Neuroendocrinology** 1996 Aug;64(2):93-102

Aromatase immunoreactivity in axon terminals of the vertebrate brain. An immunocytochemical study on quail, rat, monkey and human tissues. Naftolin F, et al. **Neuroendocrinology** 1996 Feb;63(2):149-55

Sex differences in androgen responsiveness in the rat brain: regional differences in the induction of aromatase activity. Roselli CE, et al. **Neuroendocrinology** 1996 Aug; 64(2):139-45

A novel [125I]iodinated carboxypeptidase A substrate detects a metallopeptidase activity distinct from carboxypeptidase A in brain. Normant E, et al. **Neuropeptides** 1996 Feb; 30(1):13-7

Various fructose-1,6-bisphosphatase mRNAs in mouse brain, liver, kidney and heart. Cloix JF, et al. **Neuroreport** 1997 Feb 10;8(3):617-22

Na(+)-K(+)-ATPase activity of different regions of rat brain in response to immunization and bone marrow cytokine treatment. Ghoshal D, et al. **Neuroreport** 1996 Mar 22;7(4):865-8

Cloning/brain localization of mouse glutamylcysteine synthetase heavy chain mRNA. Kang Y, et al. **Neuroreport** 1997 May 27;8(8):2053-60

Degradation of Alzheimer's beta-amyloid protein by human cathepsin D. McDermott JR, et al. **Neuroreport** 1996 Sep 2;7(13):2163-6

Regional and cellular distribution of mitochondrial high-affinity aldehyde dehydrogenase in the rat brain (immunocytochemical investigation). Zimatkin SM, et al. **Neurosci Behav Physiol** 1996 May-Jun;26(3):225-30

Histochemical method for investigating the activity of monoamine oxidase A and B in the brain. Zimatkin SM, et al. **Neurosci Behav Physiol** 1996 May-Jun;26(3):231-3

Decreased cyclin dependent kinase in brain of patients with Down syndrome. Bernert G, et al. **Neurosci Lett** 1996 Sep 20;216(1):68-70

Perinatal asphyxia-induced changes in rat brain tyrosine hydroxylase-immunoreactive cell body number: effects of nicotine treatment. Chen Y, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):77-80

Trimethyltin induces gelatinase B and urokinase in rat brain. Dencoff JE, et al. **Neurosci Lett** 1997 Jun 13;228(3):147-50

1,25-Dihydroxyvitamin D3 regulates gamma 1 transpeptidase activity in rat brain. Garcion E, et al. **Neurosci Lett** 1996 Oct 4;216(3):183-6

Permanent focal and transient global cerebral ischemia increase glial and neuronal expression of heme oxygenase-1, but not heme oxygenase-2, protein in rat brain. Geddes JW, et al. **Neurosci Lett** 1996 Jun 7; 210(3):205-8

Apolipoprotein E is highly susceptible to oxidation by myeloperoxidase, an enzyme present in the brain. Jolivalt C, et al. **Neurosci Lett** 1996 May 24;210(1):61-4

Differential action of 7-nitro indazole on rat brain nitric oxide synthase. Kalisch BE, et al. **Neurosci Lett** 1996 Nov 22;

219(2):75–8

Enhanced aggregation of beta-amyloid-containing peptides by extracellular matrix and their degradation by the 68 kDa serine protease prepared from human brain. Matsumoto A, et al. **Neurosci Lett** 1996 Dec 20; 220(3):159–62

Human brain beta-secretase contains heparan sulfate glycoconjugates. Matsumoto A, et al. **Neurosci Lett** 1996 Jun 21;211(2):105–8

Structural and functional analogs of CuZn superoxide dismutase inhibit rat brain nitric oxide synthase by interference with the reductase (diaphorase) domain. Mayer B, et al. **Neurosci Lett** 1996 May 17;209(3):169–72

Murine steroid sulfatase gene expression in the brain during postnatal development and adulthood. Mortaud S, et al. **Neurosci Lett** 1996 Sep 13;215(3):145–8

Tyrosine hydroxylase (TH)-only-immunoreactive non-catecholaminergic neurons in the brain of wild mice or the human TH transgenic mice do not contain GTP cyclohydrolase I. Nagatsu I, et al. **Neurosci Lett** 1997 May 30;228(1):55–7

Protein kinase C in the postmortem brain of teenage suicide victims. Pandey GN, et al. **Neurosci Lett** 1997 Jun 6; 228(2):111–4

Induction of cyclooxygenase-2 mRNA and protein following transient focal ischemia in the rat brain. Planas AM, et al. **Neurosci Lett** 1995 Nov 24;200(3):187–90

Progressive decrease of cerebral cytochrome C oxidase activity in sparse-fur mice: role of acetyl-L-carnitine in restoring the ammonia-induced cerebral energy depletion. Rao KV, et al. **Neurosci Lett** 1997 Mar 14;224(2):83–6

Arginine-related guanidino compounds and nitric oxide synthase in the brain of ornithine transcarbamylase deficient spf mutant mouse: effect of metabolic arginine deficiency. Ratnakumari L, et al. **Neurosci Lett** 1996 Sep 13; 215(3):153–6

In growth cones of rat cerebral neurons and human neuroblastoma cells, activation of protein kinase C causes a shift from filopodial to lamellipodial actin dynamics. Rösner H, et al. **Neurosci Lett** 1996 Nov 29;219(3):175–8

Ca2+/calmodulin-dependent protein kinase II in septally kindled rat brains: changes in protein level, activity and subcellular distribution in hippocampus and cerebral cortex. Yamagata Y, et al. **Neurosci Lett** 1996 Jun 21;211(2):109–12

Deafferentation leads to a down-regulation of nitric oxide synthase in the rat visual system. Zhang C, et al. **Neurosci Lett** 1996 Jun 14;211(1):61–4

Brain distribution of nitric oxide synthase in neuronal or endothelial nitric oxide synthase mutant mice using [3H]L-NG-nitro-arginine autoradiography. Hara H, et al. **Neuroscience** 1996 Dec;75(3):881–90

Patterns of nitric oxide synthase at the messenger RNA and protein levels during early rat brain development. Keilhoff G, et al. **Neuroscience** 1996 Dec;75(4):1193–201

Molecular neuroanatomy of human monoamine oxidases A and B revealed by quantitative enzyme radioautography and in situ hybridization histochemistry. Saura J, et al. **Neuroscience** 1996 Feb;70(3):755–74

Brain cytochrome oxidase subunit complementary DNAs: isolation, subcloning, sequencing, light and electron microscopic in situ hybridization of transcripts, and regulation by neuronal activity. Wong-Riley MT, et al. **Neuroscience** 1997 Feb;76(4):1035–55

Effects of ethanol on the levels of brain 6R-L-erythro-5, 6, 7, 8-tetrahydrobiopterin in the inbred strains of mice. DBA/2J, C3H/HeJ and C57BL/6J with different alcohol preferences. Yoshimoto K, et al. **Nihon Arukoru Yakubutsu Igakkai Zasshi** 1997 Apr; 32(2):139–48

[123I/18F] N-(2-aminoethyl)-5-halogeno-2-pyridinecarbox-amides, site specific tracers for MAO-B mapping with SPECT and PET. Beer HF, et al. **Nucl Med Biol** 1995 Nov; 22(8):999–1004

11C-harmine as a tracer for monoamine oxidase A (MAO-A): in vitro and in vivo studies. Bergström M, et al. **Nucl Med Biol** 1997 May;24(4):287–93

Design and evaluation of radioactive acetylcholine analogs for mapping brain acetylcholinesterase (AchE) in vivo. Irie T, et al. **Nucl Med Biol** 1994 Aug;21(6):801–8

The presence and significance of the Pi class glutathione S-transferase isoenzyme in cerebrospinal fluid during the course of meningitis in children. Wylie-Modro S, et al. **Pediatr Res** 1997 Aug;42(2):232–6

Localization of purine metabolizing enzymes in bovine brain microvessel endothelial cells: an enzymatic blood-brain barrier for dideoxynucleosides? Johnson MD, et al. **Pharm Res** 1996 Dec;13(12):1881–6

Role of brain tissue localized purine metabolizing enzymes in the central nervous system delivery of anti-HIV agents 2'-beta-fluoro-2',3'-dideoxyinosine and 2'-beta-fluoro-2',3'-dideoxyadenosine in rats. Singhal D, et al. **Pharm Res** 1997 Jun;14(6):786–92

Indirect parasympathomimetic activity of the class III antiarrhythmic substance D/L-sotalol in vitro: reversible inhibition of cholinesterase isoenzymes from blood and the human central nervous system. Chemnitius JM, et al. **Pharmacol Res** 1996 Nov-Dec;34(5-6):193–200

A match between binding to beta-adrenoceptors and stimulation of adenylyl cyclase parameters of (-)isoproterenol and salbutamol on rat brain. Garnier V, et al. **Pharmacol Res** 1997 Apr;35(4):303–12

Morphine withdrawal alters anterior pituitary hormone secretion, brain endopeptidase activity and brain monoamine metabolism in the rat. Idänpään-Heikkilä JJ, et al. **Pharmacol Toxicol** 1996 Mar;78(3):129–35

Increase in brain nitric oxide synthase activity in daunorubicin-treated rats. Joshi P, et al. **Pharmacol Toxicol** 1996 Feb;78(2):99–103

Primary alcohols and phosphatidylcholine metabolism in rat brain synaptosomal membranes via phospholipase D. Seidler L, et al. **Pharmacol Toxicol** 1996 Apr;78(4):249–53

Effect of tirilazad on brain nitric oxide synthase activity during cerebral ischemia in rats. del Pilar Fernandez Rodriguez M, et al. **Pharmacology** 1997 Feb;54(2):108–12

Influence of sanguinarine on the GABA synthesizing enzyme glutamate decarboxylase in vitro. Netopilova M, et al. **Pharmazie** 1996 Aug;51(8):589–91

Purification of bovine brain adenylyl cyclase with a novel derivative of forskolin: evidence for a high specific activity form of the enzyme. Moos M Jr, et al. **Prep Biochem Biotechnol** 1996 May;26(2):155–67

Neuronal nitric oxide synthase alternatively spliced forms: prominent functional localizations in the brain. Eliasson MJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1; 94(7):3396–401

Brain monoamine oxidase A inhibition in cigarette smokers. Fowler JS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14065–9

Transbilayer inhibition of protein kinase C by the lipophosphoglycan from Leishmania donovani. Giorgione JR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11634–9

The type 2 iodothyronine deiodinase is expressed primarily in glial cells in the neonatal rat brain. Guadaño-Ferraz A, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10391–6

Prevention of experimental allergic encephalomyelitis by targeting nitric oxide and peroxynitrite: implications for the treatment of multiple sclerosis. Hooper DC, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2528–33

Cyp7b, a novel brain cytochrome P450, catalyzes the synthesis of neurosteroids 7alpha-hydroxy dehydroepiandrosterone and 7alpha-hydroxy pregnenolone. Rose KA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4925–30

Cloning and functional expression of a novel glucuronyltransferase involved in the biosynthesis of the carbohydrate epitope HNK-1. Terayama K, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6093–8

Nuclear polyadenylate polymerase activity in the brain of seizure-prone EL mice. Kioka T, et al. **Psychiatry Clin Neurosci** 1997 Jun;51(3):151–5

Age-related changes in the soluble and the membrane-bound Tyr-aminopeptidase activities in several areas of the male and female rat brain. de Gandarias JM, et al. **Reprod Fertil Dev** 1996;8(3):465–9

Effect of aluminum on regional brain antioxidant defense status in Wistar rats. Julka D, et al. **Res Exp Med (Berl)** 1996;196(3):187–94

Developmental changes of soluble and membrane-bound aspartate aminopeptidase activities in rat brain. Arechaga G, et al. **Rev Esp Fisiol** 1996 Sep;52(3):149–54

Immunologic NO synthase: elevation in severe AIDS dementia and induction by HIV-1 gp41. Adamson DC, et al. **Science** 1996 Dec 13;274(5294):1917–21

A mitochondrial Alzheimer's gene? [news] Barinaga M. **Science** 1997 May 2;276(5313):682

Hydroxysteroid sulfotransferase activity in the rat brain and liver as a function of age and sex. Rajkowski KM, et al. **Steroids** 1997 May;62(5):427–36

Kinetic analysis of the in vitro inhibition, aging, and reactivation of brain acetylcholinesterase from rat and channel catfish by paraoxon and chlorpyrifos-oxon. Carr RL, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):365–73

Relative potencies of the four stereoisomers of isomalathion for inhibition of hen brain acetylcholinesterase and neurotoxic esterase in vitro. Jianmongkol S, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):342–8

The role of anchoring protein RACK1 in PKC activation in the ageing rat brain. Battaini F, et al. **Trends Neurosci** 1997 Sep;20(9):410–5 (72 ref.)

Characterization of protein phosphatases type 1 and type 2A in Limulus nervous tissue: their light regulation in the lateral eye and evidence of involvement in the photoresponse. Edwards SC, et al. **Vis Neurosci** 1996 Jan-Feb;13(1):73–85

[Cerebral cytochrome oxidase monitoring by near infrared spectroscopy during selective cerebral perfusion] Yotsumoto G, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):970–3 (Eng. Abstr.) **(Jpn)**

[Serine/threonine phosphoprotein phosphatases in brain tissue] Zylińska L, et al. **Postepy Biochem** 1995;41(4):276–82 (52 ref.) **(Pol)**

[Effect of phospholipase A2 from Naja naja oxiana venom on activity of Na+,K+-ATPase isoenzymes in rat brain] Kaplia AA, et al. **Biokhimiia** 1996 Jun;61(6):998–1005 (Eng. Abstr.) **(Rus)**

[Characteristics of tyrosine hydroxylase gene expression in the brain of rats with different ethanol consumption after chronic alcoholic intoxication] Anokhina IP, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):63–5 **(Rus)**

[The effect of adaptation of hypoxia on cytochrome levels in rat brain and liver] Dudchenko AM, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):576–9 **(Rus)**

[Monoamine oxidase activity in the brain of male laboratory mice differing in the capacity for social dominance] Kozlova ON, et al. **Genetika** 1996 Oct;32(10):1375–80 (Eng. Abstr.) **(Rus)**

[The determination of NADPH-diaphorase activity in the rat brain after fixation for different lengths of time] Korzhevskii DE. **Morfologiia** 1996;109(3):76–7 **(Rus)**

[The thermally induced transformation of the protein-detergent complexes of the Na+,K(+)-ATPase catalytic subunits of the kidneys and brain in PAG electrophoresis] Kaplia AA, et al. **Ukr Biokhim Zh** 1996 Mar-Apr;68(2):51–7 (Eng. Abstr.) **(Rus)**

[The properties of NADPHd-positive neurons in the brain of the snail] D'iakonova TL. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May-Jun; 47(3):543–52 (Eng. Abstr.) **(Rus)**

[Subcellular distribution of leucine aminopeptidase during the development and aging of rat brains] Arechaga G, et al. **Rev Neurol** 1996 Dec;24(136):1503–6 (Eng. Abstr.) **(Spa)**

[Properties of free and bound glycolytic enzymes from scorpionfish brain. III. Pyruvate kinase] Bagniukova TV, et al. **Ukr Biokhim Zh** 1996 May-Jun;68(3):52–7 (Eng. Abstr.) **(Ukr)**

[Properties of free and bound glycolytic enzymes from the scorpionfish brain. I. Hexokinase] Lushchak VI, et al. **Ukr Biokhim Zh** 1996 May-Jun;68(3):42–7 (Eng. Abstr.) **(Ukr)**

[Properties of free and bound glycolytic enzymes from scorpionfish brain. II. Lactate dehydrogenase] Spichenkov OV, et al. **Ukr Biokhim Zh** 1996 May-Jun;68(3):47–52 (Eng. Abstr.) **(Ukr)**

GROWTH & DEVELOPMENT

Perineuronal sulfated proteoglycans, cell surface glycoproteins and dark neurons in the cingulate cortex of newborn and adult rats. Tsubouchi M, et al. **Acta Med Okayama** 1996 Dec;50(6):313–7

Synaptogenesis, heterochrony and epigenesis in the mammalian neocortex. Bourgeois JP. **Acta Paediatr Suppl** 1997 Jul;422:27–33 (62 ref.)

Environmental and genetic determinants of neural migration and postmigratory survival. Evrard P, et al. **Acta Paediatr Suppl** 1997 Jul;422:20–6 (52 ref.)

Hormones as regulators of brain development: life-long effects related to health and disease. McEwen BS. **Acta Paediatr Suppl** 1997 Jul;422:41–4 (40 ref.)

Choline: essential for brain development and function. Zeisel SH. **Adv Pediatr** 1997;44:263–95 (174 ref.)

MR of the cerebral operculum: abnormal opercular formation in infants and children. Chen CY, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1303–11

Age-related changes in the pediatric brain: quantitative MR evidence of maturational changes during adolescence. Steen RG, et al. **AJNR Am J Neuroradiol** 1997 May; 18(5):819–28

The development of the blood-brain barrier in alcohol-exposed rats. Phillips DE, et al. **Alcohol** 1997 Jul-Aug;14(4):333–43

Regulation of neurogenesis in the embryonic and adult brain by fibroblast growth factors. Bartlett PF, et al. **Alcohol Alcohol Suppl** 1994;2:387–94 (49 ref.)

Mutations in the MGAT2 gene controlling complex N-glycan synthesis cause carbohydrate-deficient glycoprotein syndrome type II, an autosomal recessive disease with defective brain development. Tan J, et al. **Am J Hum Genet** 1996 Oct;59(4):810–7

The neurodevelopmental theory of schizophrenia: evidence concerning structure and neuropsychology. Chua SE, et al. **Ann Med** 1996 Dec;28(6):547–55 (128 ref.)

Stress hormones, genotype, and brain organization. Implications for aggression. De Kloet ER, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:179–91 (65 ref.)

Rett syndrome: a disorder affecting early brain growth. Naidu S. **Ann Neurol** 1997 Jul;42(1):3–10 (100 ref.)

Regional distribution and ontogeny of 5-HT4 binding sites in rat brain. Waeber C, et al. **Behav Brain Res** 1996; 73(1-2):259–62

Neurons in the cerebral cortex are most susceptible to DNA-damage in aging rat brain. Mandavilli BS, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):507–14

Regulation of heme oxygenase-2 by glucocorticoids in neonatal rat brain: characterization of a functional glucocorticoid response element. Raju VS, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):89–104

Hypoxia-ischaemia and the developing brain: hypotheses regarding the pathophysiology of fetal-neonatal brain damage. Longo LD, et al. **Br J Obstet Gynaecol** 1997 Jun; 104(6):652–62 (122 ref.)

Postnatal development of delta-opioid receptor subtypes in mice. Negri L, et al. **Br J Pharmacol** 1997 Mar; 120(6):989–94

Brain development, gender and IQ in children. A volumetric imaging study. Reiss AL, et al. **Brain** 1996 Oct;119 (Pt 5):1763–74

Microhabitat use, trophic patterns, and the evolution of brain structure in African cichlids. Huber R, et al. **Brain Behav Evol** 1997;50(3):167–82

Autoradiographic localization of arginine vasopressin binding sites in the brain of adult and developing Brazilian opossums. Kuehl-Kovarik MC, et al. **Brain Behav Evol** 1997;49(5):261–75

Embryonic brain growth in two shorebirds: Charadrius

vociferus and Gallinago gallinago. Nol E, et al. **Brain Behav Evol** 1996;48(1):16–26

Morphogenesis of the brain in larval and juvenile Japanese eels, Anguilla japonica. Tomoda H, et al. **Brain Behav Evol** 1996;47(1):33–41

Functional brain reorganization in children. Chugani HT, et al. **Brain Dev** 1996 Sep–Oct;18(5):347–56 (121 ref.)

Nutrition and cognitive function. Gordon N. **Brain Dev** 1997 Apr;19(3):165–70 (44 ref.)

Neuronal maturation and N–acetyl–L–aspartic acid development in human fetal and child brains. Kato T, et al. **Brain Dev** 1997 Mar;19(2):131–3

Regulation of oligodendrocyte development and CNS myelination by growth factors: prospects for therapy of demyelinating disease. McMorris FA, et al. **Brain Pathol** 1996 Jul;6(3):313–29 (170 ref.)

The ontogeny of a neurotoxic lesion in rat brain revealed by combined MRI and histology. Ben–Horin N, et al. **Brain Res** 1996 Apr 29;718(1–2):97–104

Transient alterations in neurotransmitter levels during a critical period of neural development in coho salmon (Oncorhyncus kisutch). Ebbesson SO, et al. **Brain Res** 1996 Dec 2;742(1–2):339–42

SC1, a SPARC–related glycoprotein, exhibits features of an ECM component in the developing and adult brain. Mendis DB, et al. **Brain Res** 1996 Mar 25;713(1–2):53–63

Free radical–induced elevation of ornithine decarboxylase activity in developing rat brain slices. Saito K, et al. **Brain Res** 1997 Jul 25;763(2):232–8

Cocaethylene exposure during the brain growth spurt period: brain growth restrictions and neurochemistry studies. Chen WJ, et al. **Brain Res Dev Brain Res** 1997 Jun 18; 100(2):220–9

Developmental profile of NGF immunoreactivity in the rat brain: a possible role of NGF in the establishment of cholinergic terminal fields in the hippocampus and cortex. Conner JM, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1–2):67–79

Postnatal development of the dopamine transporter: a quantitative autoradiographic study [published erratum appears in Brain Res Dev Brain Res 1996 Jan 2;98(1):150] Coulter CL, et al. **Brain Res Dev Brain Res** 1996 Apr 30; 92(2):172–81

Protective effects of maternal buspirone treatment on serotonin reuptake sites in ethanol–exposed offspring. Kim JA, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):190–8

Postnatal development of peripheral–type benzodiazepine receptors in rat brain and peripheral tissues. Kurumaji A, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):148–51

Dextromethorphan ameliorates effects of neonatal hypoxia on brain morphology and seizure threshold in rats. Laroia N, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):29–34

Ontogenic development of secretogranin II and of its processing to secretoneurin in rat brain. Leitner B, et al. **Brain Res Dev Brain Res** 1997 Jun 18;100(2):161–8

The prepubertal ontogeny of galanin–like immunoreactivity in the male Meishan pig brain. Pearson PL, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):125–39

The prepubertal ontogeny of neuropeptide Y–like immunoreactivity in the male Meishan pig brain. Pearson PL, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):41–69

Sexually dimorphic effects of anti–NGF treatment in neonatal rats. Ricceri L, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):273–6

Regional analysis of developmental changes in the extent of GluR6 mRNA editing in rat brain. Schmitt J, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):153–7

Influence of age on the cerebral lesions in an immature rat model of cerebral hypoxia–ischemia: a light microscopic study. Towfighi J, et al. **Brain Res Dev Brain Res** 1997 Jun 18;100(2):149–60

Developmental changes in NMDA–induced cell swelling and its transition to necrosis measured with 1H magnetic resonance imaging, impedance and histology. Van Lookeren Campagne M, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1–2):109–19

Cloning and developmental expression of 5–HT1A receptor gene in Xenopus laevis. Marracci S, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):67–77

Early ontogeny of catecholaminergic cell lineage in brain and peripheral neurons monitored by tyrosine hydroxylase–lacZ transgene. Son JH, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):300–8

Localization of mRNA for fatty acid transport protein in developing and mature brain of rats. Utsunomiya A, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):217–22

Developmental changes in expression of the ATBF1 transcription factor gene. Watanabe M, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):344–9

Dynamic expression suggests multiple roles of the eph family receptor brain–specific kinase (Bsk) during mouse neurogenesis. Zhang JH, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):202–14

Biochemical and histological analysis of two Müller cell antibodies in developing and adult cat and rat central nervous system. Distler C, et al. **Cell Tissue Res** 1997 Sep; 289(3):411–26

The neural system of language: structure and development. Nobre AC, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):262–8 (58 ref.)

Expression of a novel murine homeobox gene in the developing cerebellar external granular layer during its proliferation. Bertolino E, et al. **Dev Dyn** 1996 Apr; 205(4):410–20

Tyrosinase is a new marker for cell populations in the mouse neural tube. Tief K, et al. **Dev Dyn** 1996 Apr;205(4):445–56

The effect of intracranial pressure on myelination and the relationship with neurodevelopment in infantile hydrocephalus. Hanlo PW, et al. **Dev Med Child Neurol** 1997 May;39(5):286–91

Sexual differentiation of the brain in songbirds. Arnold AP, et al. **Dev Neurosci** 1996;18(1–2):124–36 (88 ref.)

Juvenile hormone, behavioral maturation, and brain structure in the honey bee. Fahrbach SE, et al. **Dev Neurosci** 1996; 18(1–2):102–14 (121 ref.)

Manipulation of the dopamine system affects fetal and neonatal responses to an artificial nipple. Becker LA, et al. **Dev Psychobiol** 1996 Mar;29(2):139–56

The winged helix gene, Mf3, is required for normal development of the diencephalon and midbrain, postnatal growth and the milk–ejection reflex. Labosky PA, et al. **Development** 1997 Apr;124(7):1263–74

Bax promotes neuronal cell death and is downregulated during the development of the nervous system. Vekrellis K, et al. **Development** 1997 Mar;124(6):1239–49

Immunohistochemical expression of cell adhesion molecule L1 during development of the human brain. Tsuru A, et al. **Early Hum Dev** 1996 Jul 5;45(1–2):93–101

The evolution of complexity in human brain development: an EEG study. Meyer–Lindenberg A. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 99(5):405–11

Poverty, cultural disadvantage and brain development: a study of pre–school children in Mexico. Otero GA. **Electroencephalogr Clin Neurophysiol** 1997 Jun; 102(6):512–6

Molecular basis of thyroid hormone–dependent brain development. Oppenheimer JH, et al. **Endocr Rev** 1997 Aug;18(4):462–75 (158 ref.)

Identification of a nuclear protein from rat developing brain as heterodimerization partner with thyroid hormone receptor–beta. Huo B, et al. **Endocrinology** 1997 Aug; 138(8):3283–9

Transient stimulation of myelin basic protein gene expression in differentiating cultured oligodendrocytes: a model for 3,5,3'–triiodothyronine–induced brain development. Strait KA, et al. **Endocrinology** 1997 Feb;138(2):635–41

Neuronal mitochondrial morphology and transmembrane potential are severely altered by hypothyroidism during rat brain development. Vega–Núñez E, et al. **Endocrinology** 1997 Sep;138(9):3771–8

Recurrent seizures in the developing brain are not harmful. Camfield PR. **Epilepsia** 1997 Jun;38(6):735–7

Epilepsy in the developing brain: lessons from the laboratory and clinic. Holmes GL. **Epilepsia** 1997 Jan;38(1):12–30 (252 ref.)

Recurrent seizures in the developing brain are harmful. Wasterlain CG. **Epilepsia** 1997 Jun;38(6):728–34 (30 ref.)

Brain creatine kinase reaction rates and reactant concentrations during seizures in developing rats. Holtzman D, et al. **Epilepsy Res** 1997 Apr;27(1):7–11

The model of pentylenetetrazol–induced status epilepticus in the immature rat: short– and long–term effects. Nehlig A, et al. **Epilepsy Res** 1996 Dec;26(1):93–103

Developmental aspects of the pilocarpine model of epilepsy. Priel MR, et al. **Epilepsy Res** 1996 Dec;26(1):115–21

Reelin mRNA expression during mouse brain development. Schiffmann SN, et al. **Eur J Neurosci** 1997 May; 9(5):1055–71

Somatostatin receptors in the developing rat brain. Thoss VS, et al. **Eur J Pharmacol** 1996 Feb 15;297(1–2):145–55

Developmental changes in functional EEG asymmetry: a multivariate autoregressive modeling approach. Sato K, et al. **Front Med Biol Eng** 1997;8(2):109–22

Methylation of the glial fibrillary acidic protein gene shows novel biphasic changes during brain development. Teter B, et al. **Glia** 1996 Jul;17(3):195–205

Development of arginine vasotocin innervation in two species of anuran amphibian: Rana catesbeiana and Rana sylvatica. Mathieson WB. **Histochem Cell Biol** 1996 Apr; 105(4):305–18

The neuropathological changes associated with normal brain aging. Hof PR, et al. **Histol Histopathol** 1996 Oct; 11(4):1075–88 (70 ref.)

Genetically triggered sexual differentiation of brain and behavior. Arnold AP. **Horm Behav** 1996 Dec;30(4):495–505 (77 ref.)

Subcellular study of the pGlu–peptidase I activity during the rat brain development. Irazusta J, et al. **Int J Dev Biol** 1996;Suppl 1:147S–148S

Embryonic and larval development of the basal ganglia connections in the brain of Xenopus laevis. Marin O, et al. **Int J Dev Biol** 1996;Suppl 1:161S–162S

Developmental changes of Tyr–aminopeptidase activity in different subcellular fractions of the subcortical region of the rat brain. Varona A, et al. **Int J Dev Biol** 1996;Suppl 1:165S–166S

Nutritional recovery does not reverse the activation of brain serotonin synthesis in the ontogenetically malnourished rat. Manjarrez GG, et al. **Int J Dev Neurosci** 1996 Aug; 14(5):641–8

Identification of immunoreactive mammalian gonadotropin–releasing hormone in the brain of metamorphic larvae of Bufo arenarum Hensel (Amphibia: Anura). Somoza GM, et al. **Int J Dev Neurosci** 1996 Aug; 14(5):663–72

Differential expression of the soluble 170 kDa brain protein in the fetal and adult human brain. Yew DT, et al. **Int J Dev Neurosci** 1996 Aug;14(5):551–7

How brain development is shaped by genetic and environmental factors. Pally R. **Int J Psychoanal** 1997 Jun; 78 (Pt 3):587–93 (21 ref.)

Ontogenic profile of brain lipids following perinatal exposure to cadmium. Gupta A, et al. **J Appl Toxicol** 1996 May–Jun; 16(3):227–33

Thyroid hormone–dependent gene expression program for Xenopus neural development. Denver RJ, et al. **J Biol Chem** 1997 Mar 28;272(13):8179–88

Neurogenesis in adult insect mushroom bodies. Cayre M, et al. **J Comp Neurol** 1996 Jul 22;371(2):300–10

Reciprocal entorhinal–hippocampal connections established by human fetal midgestation. Hevner RF, et al. **J Comp Neurol** 1996 Aug 26;372(3):384–94

Developmental expression of keratan sulfate–like immunoreactivity distinguishes thalamic nuclei and cortical domains. Miller B, et al. **J Comp Neurol** 1997 Apr 21; 380(4):533–52

Regression changes in inferior olivary nucleus compared to changes of Purkinje cells during development in humans. Gudović R, et al. **J Hirnforsch** 1996;37(1):67–72

Correlation of altered gravity and cytochrome oxidase activity in the developing fish brain. Paulus U, et al. **J Hirnforsch** 1996;37(1):103–7

Brain does not utilize low density lipoprotein–cholesterol during fetal and neonatal development in the sheep. Turley SD, et al. **J Lipid Res** 1996 Sep;37(9):1953–61

Polysialic acid synthase (ST8Sia II/STX) mRNA expression in the developing mouse central nervous system. Kurosawa N, et al. **J Neurochem** 1997 Aug;69(2):494–503

Differential expression of type I, II, and V adenylyl cyclase gene in the postnatal developing rat brain. Matsuoka I, et al. **J Neurochem** 1997 Feb;68(2):498–506

Accelerated myelinogenesis by dietary lipids in rat brain. Salvati S, et al. **J Neurochem** 1996 Oct;67(4):1744–50

NMDA receptor heterogeneity during postnatal development of the rat brain: differential expression of the NR2A, NR2B, and NR2C subunit proteins. Wenzel A, et al. **J Neurochem** 1997 Feb;68(2):469–78

The regional distribution of myelin oligodendrocyte glycoprotein (MOG) in the developing rat CNS: an in vivo immunohistochemical study. Coffey JC, et al. **J Neurocytol** 1997 Mar;26(3):149–61

Differential expression of NGFI–B and RNR–1 genes in various tissues and developing brain of the rat: comparative study by quantitative reverse transcription–polymerase chain reaction. Bandoh S, et al. **J Neuroendocrinol** 1997 Jan;9(1):3–8

Myelination delay in the cerebral white matter of immature rats with kaolin–induced hydrocephalus is reversible. Del Bigio MR, et al. **J Neuropathol Exp Neurol** 1997 Sep; 56(9):1053–66

Neurobiological bases of age–related cognitive decline in the rhesus monkey. Peters A, et al. **J Neuropathol Exp Neurol** 1996 Aug;55(8):861–74 (105 ref.)

Oligodendroglia regulate the regional expansion of axon caliber and local accumulation of neurofilaments during development independently of myelin formation. Sánchez I, et al. **J Neurosci** 1996 Aug 15;16(16):5095–105

Brain aging: impaired coding of novel environmental cues. Tanila H, et al. **J Neurosci** 1997 Jul 1;17(13):5167–74

T2 relaxation time as a marker of brain myelination: experimental MR study in two neonatal animal models. Miot–Noirault E, et al. **J Neurosci Methods** 1997 Mar; 72(1):5–14

Ganglioside GD3 in radial glia and astrocytes in situ in brains of young and adult mice. Cammer W, et al. **J Neurosci Res** 1996 Oct 1;46(1):18–23

Variants of the receptor/channel clustering molecule gephyrin in brain: distinct distribution patterns, developmental profiles, and proteolytic cleavage by calpain. Kawasaki BT, et al. **J Neurosci Res** 1997 Aug 1; 49(3):381–8

Triton–soluble phosphovariants of the heavy neurofilament subunit in developing and mature mouse central nervous system. Shea TB, et al. **J Neurosci Res** 1997 Jun 15; 48(6):515–23

Small changes of dietary (n–6) and (n–3)/fatty acid content ration alter phosphatidylethanolamine and phosphatidylcholine fatty acid composition during development of neuronal and glial cells in rats. Jumpsen J, et al. **J Nutr** 1997 May;127(5):724–31

Neurodevelopmental dysfunction among nonreferred children with idiopathic megalencephaly. Sandler AD, et al. **J Pediatr** 1997 Aug;131(2):320–4

Simplified preparation of a refined milk formula comparable to rat's milk: influence of the formula on development of the gut and brain in artificially reared rat pups. Kanno T, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):242–52

Relationship between impairment of prenatal brain growth and family history of psychosis in schizophrenia. Kunugi H, et al. **J Psychiatr Res** 1996 Nov–Dec;30(6):475–81

Cloning and expression of a novel murine semaphorin with structural similarity to insect semaphorin I. Zhou L, et al. **Mol Cell Neurosci** 1997 Jan;9(1):26–41

Epilepsy and brain abnormalities in mice lacking the Otx1 gene. Acampora D, et al. **Nat Genet** 1996 Oct;14(2):218–22

Postembryonic maturation of the vertical lobe complex and early development of predatory behavior in the cuttlefish (Sepia officinalis). Dickel L, et al. **Neurobiol Learn Mem** 1997 Mar;67(2):150–60

Free radical scavenging activity of the Japanese herbal medicine toki-shakuyaku-san (TJ-23) and its effect on superoxide dismutase activity, lipid peroxides, glutamate, and monoamine metabolites in aged rat brain. Ueda Y, et al. **Neurochem Res** 1996 Aug;21(8):909–14

Expression of the putative transcription factor NOR-1 in the nervous, the endocrine and the immune systems and the developing brain of the rat. Maruyama K, et al. **Neuroendocrinology** 1997 Jan;65(1):2–8

Hypophysiotropic somatostatin expression during postnatal development in growth hormone-deficient Ames dwarf mice: peptide immunocytochemistry. Phelps CJ, et al. **Neuroendocrinology** 1996 Nov;64(5):364–78

Control of cell pattern in the neural tube by the zinc finger transcription factor and oncogene Gli-1. Hynes M, et al. **Neuron** 1997 Jul;19(1):15–26

DNA fragmentation in normal development of the human central nervous system: a morphological study during corticogenesis. Simonati A, et al. **Neuropathol Appl Neurobiol** 1997 Jun;23(3):203–11

MRI assessment of myelination of motor and sensory pathways in the brain of preterm and term-born infants. Sie LT, et al. **Neuropediatrics** 1997 Apr;28(2):97–105

Role of the 5-HT1A receptor in development of the neonatal rat brain: preliminary behavioral studies. Borella A, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):445–50

Infratentorial brain maturation: a comparison of MRI at 0.5 and 1.5T. Hittmair K, et al. **Neuroradiology** 1996 May; 38(4):360–6

Differential expression of the GABAA receptor alpha 1 subunit in developing chicken brain. Fan SS, et al. **Neuroreport** 1997 Jul 7;8(9–10):2399–404

Distribution of beta-amyloid in the canine brain. Hou Y, et al. **Neuroreport** 1997 Mar 3;8(4):1009–12

Transient neuronal population of the internal capsule in the developing human cerebrum. Letinić K, et al. **Neuroreport** 1996 Sep 2;7(13):2159–62

Arginine and ornithine decarboxylation in rodent brain: coincidental changes during development and after ischemia. Gilad GM, et al. **Neurosci Lett** 1996 Sep 20; 216(1):33–6

Differences in the developmental expression of the vesicular acetylcholine transporter and choline acetyltransferase in the rat brain. Holler T, et al. **Neurosci Lett** 1996 Jul 12; 212(2):107–10

Developing brain cells produce factors capable of inducing the HT7 antigen, a blood-brain barrier-specific molecule, in chick endothelial cells. Ikeda E, et al. **Neurosci Lett** 1996 May 17;209(3):149–52

Developmental changes in endothelin A and endothelin B receptor subtypes in embryonic chick brains. Jeng AY, et al. **Neurosci Lett** 1996 Apr 26;208(3):208–10

Differential expression of LIM-homeodomain genes in the embryonic murine brain. Matsumoto K, et al. **Neurosci Lett** 1996 Jun 28;211(3):147–50

Intracerebral expression of gonadotropin-releasing hormone and growth hormone-releasing hormone is delayed until smoltification in the salmon. Parhar IS, et al. **Neurosci Res** 1996 Nov;26(3):299–308

Changes in expression and distribution of the glutamate transporter EAAT4 in developing mouse Purkinje cells. Yamada K, et al. **Neurosci Res** 1997 Mar;27(3):191–8

Localization of the messenger RNA for the c-Jun NH2-terminal kinase kinase in the adult and developing rat brain: an in situ hybridization study. Carboni L, et al. **Neuroscience** 1997 Sep;80(1):147–60

Expression of agrin in the developing and adult rat brain. Cohen NA, et al. **Neuroscience** 1997 Jan;76(2):581–96

Fumonisin B1 in developing rats alters brain sphinganine levels and myelination. Kwon OS, et al. **Neurotoxicology** 1997;18(2):571–79

Does undernutrition during infancy inhibit brain growth and subsequent intellectual development? 1963 [classical article] Stoch MB, et al. **Nutrition** 1996 Jul-Aug;12(7–8):569–71; discussion 568

Neurophysiological assessment of brain function and maturation: I. A measure of brain adaptation in high risk infants. Scher MS. **Pediatr Neurol** 1997 Apr;16(3):191–8 (100 ref.)

Neurotoxicology and amino acid intake during development: the case of threonine. Castagne V, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):653–62 (138 ref.)

Labor analgesia and infant brain development. Golub MS. **Pharmacol Biochem Behav** 1996 Dec;55(4):619–28 (95 ref.)

Cellular and molecular correlates to plasticity during recovery from injury in the developing mammalian brain. Ide CF, et al. **Prog Brain Res** 1996;108:365–77 (21 ref.)

Hypoxia and brain development. Nyakas C, et al. **Prog Neurobiol** 1996 May;49(1):1–51 (345 ref.)

HB-GAM (heparin-binding growth-associated molecule) and heparin-type glycans in the development and plasticity of neuron-target contacts. Rauvala H, et al. **Prog Neurobiol** 1997 Jun;52(2):127–44 (112 ref.)

Does the genotype for schizophrenia often remain unexpressed because of canalization and stochastic events during development? Woolf CM. **Psychol Med** 1997 May; 27(3):659–68 (73 ref.)

Comparative rates of development in Monodelphis and Didelphis [letter; comment] Smith KK, et al. **Science** 1997 Jan 31;275(5300):683–4. Comment on: Science 1996 Aug 2;273(5275):651–4.

Atypical location of cannabinoid receptors in white matter areas during rat brain development. Romero J, et al. **Synapse** 1997 Jul;26(3):317–23

GAP-43: an intrinsic determinant of neuronal development and plasticity. Benowitz LI, et al. **Trends Neurosci** 1997 Feb;20(2):84–91 (140 ref.)

New evidence for neurotransmitter influences on brain development. Levitt P, et al. **Trends Neurosci** 1997 Jun; 20(6):269–74 (86 ref.)

Is neural development Darwinian? [see comments] Purves D, et al. **Trends Neurosci** 1996 Nov;19(11):460–4. Comment in: Trends Neurosci 1997 Jul;20(7):291; discussion 293. Comment in: Trends Neurosci 1997 Jul;20(7):291–3.

[Does flattening of the skull have lasting effects on brain development?] Vaandrager JM, et al. **Ned Tijdschr Geneeskd** 1996 Sep 28;140(39):1963 **(Dut)**

[Changes of magnetization transfer ratio according to rat brain development] Bai LS, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):955–60 (Eng. Abstr.) **(Jpn)**

[Effect of litter size on rat brain development during the nursing period] Ryzhavskiĭ BIa, et al. **Biull Eksp Biol Med** 1996 May;121(5):582–4 **(Rus)**

[The neuropeptide galanin and the seizure reactions of the developing brain] Chepurnov SA, et al. **Usp Fiziol Nauk** 1997 Apr-Jun;28(2):3–20 (102 ref.) (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Inflammation of the brain after ischemia. Kogure K, et al. **Acta Neurochir Suppl (Wien)** 1996;66:40–3 (14 ref.)

Altered nitric oxide synthase immunoreactivity in the brain of stroke-prone spontaneously hypertensive rats. Gotoh K, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):123–9

Immunohistochemistry of a cytoplasmic dynein (MAP 1C)-like molecule in rodent and human brain tissue: an example of molecular mimicry between cytoplasmic dynein and influenza A virus. Yamada T, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):306–11

Tumor necrosis factor-alpha expression in the brain during fatal murine cerebral malaria: evidence for production by microglia and astrocytes. Medana IM, et al. **Am J Pathol** 1997 Apr;150(4):1473–86

Febrile response to tissue inflammation involves both peripheral and brain IL-1 and TNF-alpha in the rat. Luheshi GN, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R862–8

Neuroimmunological aspects of fetus and newborn brain damage in complicated pregnancy. Borodin Y, et al. **Am J Reprod Immunol** 1996 Apr;35(4):421–8

The immune response in the Alzheimer's disease brain. Banati RB. **Biochem Soc Trans** 1997 May;25(2):683–5 (13 ref.)

Microglia in health and disease. Cuzner ML. **Biochem Soc Trans** 1997 May;25(2):671–3 (24 ref.)

Heat-stable antigen (mouse CD24) in the brain: dual but distinct interaction with P-selectin and L1. Sammar M, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):287–94

Perivascular localization of TRPM1- and TRPM2-positive cells in the rat brain. Rodella L, et al. **Boll Soc Ital Biol Sper** 1996 Jul-Aug;72(7–8):223–6

Isolation of a monoclonal antibody reactive to brain microsome-associated antigen, lap-1, and its preferential localization in limbic system of rat brain. Fukuyama R, et al. **Brain Res** 1996 May 6;719(1–2):194–7

Early events of the inflammatory reaction induced in rat brain by lipopolysaccharide intracerebral injection: relative contribution of peripheral monocytes and activated microglia. Montero-Menei CN, et al. **Brain Res** 1996 Jun 10;724(1):55–66

Ultrastructural localization of CD38 immunoreactivity in rat brain. Yamada M, et al. **Brain Res** 1997 May 9; 756(1–2):52–60

The inflammatory response system of brain: implications for therapy of Alzheimer and other neurodegenerative diseases. McGeer PL, et al. **Brain Res Brain Res Rev** 1995 Sep;21(2):195–218 (308 ref.)

The failure of current immunotherapy for malignant glioma. Tumor-derived TGF-beta, T-cell apoptosis, and the immune privilege of the brain. Weller M, et al. **Brain Res Brain Res Rev** 1995 Sep;21(2):128–51 (254 ref.)

AD2, a phosphorylation-dependent monoclonal antibody directed against tau proteins found in Alzheimer's disease. Buée-Scherrer V, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):79–88

Serotonin transporter antibodies: production, characterization, and localization in the brain. Zhou FC, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):267–78

Intracerebral injection of myelin basic protein (MBP) induces inflammation in brain and causes paraplegia in MBP-sensitized B6 mice. Tsai CY, et al. **Clin Exp Immunol** 1997 Jul;109(1):127–33

Sepsis and endotoxaemia in mice stimulate the expression of interleukin-1 and interleukin-6 in the central nervous system. Meyer TA, et al. **Clin Sci (Colch)** 1997 May; 92(5):519–25

Direct cell/cell contact with stimulated T lymphocytes induces the expression of cell adhesion molecules and cytokines by human brain microvascular endothelial cells. Lou J, et al. **Eur J Immunol** 1996 Dec;26(12):3107–13

Flow cytometric analysis of major histocompatibility complex (MHC) class II antigen expression on brain cells from Borna disease virus-infected rats without an intervening in vitro culture step. Rubin SA, et al. **Exp Neurol** 1997 Jul;146(1):286–90

Beta-protein immunoreactivity in the human brain after cardiac arrest. Wiśniewski HM, et al. **Folia Neuropathol** 1996;34(2):65–71

Role of T cells in inflammation caused by adenovirus vectors in the brain. Byrnes AP, et al. **Gene Ther** 1996 Jul; 3(7):644–51

Immune responses to adenoviral vectors during gene transfer in the brain. Kajiwara K, et al. **Hum Gene Ther** 1997 Feb 10;8(3):253–65

Heterogeneity of mouse brain macrophages in alloantigen presentation to naive CD8+ T cells as revealed by a panel of microglial cell lines. Askew D, et al. **Immunobiology** 1996 Oct;195(4-5):417–30 (56 ref.)

The shaping of the brain-specific T lymphocyte repertoire in the thymus. Wekerle H, et al. **Immunol Rev** 1996 Feb; 149:231–43 (35 ref.)

Stress-induced rise in serum anti-brain autoantibody levels in the rat. Andrejević S, et al. **Int J Neurosci** 1997 Feb; 89(3–4):153–64

Fas ligand expression by astrocytoma in vivo: maintaining immune privilege in the brain? Saas P, et al. **J Clin Invest** 1997 Mar 15;99(6):1173–8

Distribution of somatostatin-immunoreactive structures in the central nervous system of the frog, Rana esculenta. Petkó M, et al. **J Hirnforsch** 1996;37(1):109–20

IL-12 production by central nervous system microglia is inhibited by astrocytes. Aloisi F, et al. **J Immunol** 1997 Aug 15;159(4):1604–12

Growth of P511 mastocytoma cells in BALB/c mouse brain elicits CTL response without tumor elimination: a new tumor model for regional central nervous system immunity. Gordon LB, et al. **J Immunol** 1997 Sep 1;159(5):2399–408

Regulation of brain-derived T cells during acute central nervous system inflammation. Irani DN, et al. **J Immunol** 1997 Mar 1;158(5):2318–26

Proinflammatory cytokines inhibit HIV-1(SF162) expression in acutely infected human brain cell cultures. Lokensgard JR, et al. **J Immunol** 1997 Mar 1;158(5):2449–55

Virus dissemination through the brain parenchyma without immunologic control. Stevenson PG, et al. **J Immunol** 1997 Aug 15;159(4):1876–84

High resolution autoantibody detection by optimized protein G-horseradish peroxidase immunostaining in a western blotting assay. Hu GR, et al. **J Immunol Methods** 1997 Mar 28;202(2):113–21

Basic mechanisms of brain inflammation. Lassmann H. **J Neural Transm Suppl** 1997;50:183–90 (48 ref.)

Intracerebral NMDA injection stimulates production of interleukin-1 beta in perinatal rat brain. Hagan P, et al. **J Neurochem** 1996 Nov;67(5):2215–8

Constitutive expression of costimulatory molecules by human microglia and its relevance to CNS autoimmunity. Dangond F, et al. **J Neuroimmunol** 1997 Jun;76(1–2):132–8

Interleukin-10 downregulates the intracerebral immune response in chronic Toxoplasma encephalitis. Deckert-Schlüter M, et al. **J Neuroimmunol** 1997 Jun; 76(1–2):167–76

Enriched immune-environment of blood-brain barrier deficient areas of normal adult rats. Pedersen EB, et al. **J Neuroimmunol** 1997 Jun;76(1–2):117–31

High IL-6 and low IL-10 in the central nervous system are associated with protracted relapsing EAE in DA rats. Diab A, et al. **J Neuropathol Exp Neurol** 1997 Jun;56(6):641–50

Development and application of a modified monoclonal hybridoma technique for isolating monoclonal antibodies to human brain regions. Fukuyama R, et al. **J Neurosci Methods** 1996 Jan;64(1):135

Phenotype and function of hematopoietic-derived cells in the CNS of SCID mouse-Lewis rat bone marrow chimeras. Jones RE, et al. **J Neurosci Res** 1996 Sep 15;45(6):723–34

Role of cervical lymph nodes in autoimmune encephalomyelitis in the Lewis rat. Phillips MJ, et al. **J Pathol** 1997 Aug;182(4):457–64

Monoclonal antiphosphatidylserine antibodies react directly with feline and murine central nervous system. Kent M, et al. **J Rheumatol** 1997 Sep;24(9):1725–33

Chemokine gene expression in the brains of mice with lymphocytic choriomeningitis. Asensio VC, et al. **J Virol** 1997 Oct;71(10):7832–40

Brain-infiltrating cytolytic T lymphocytes specific for Theiler's virus recognize H2Db molecules complexed with a viral VP2 peptide lacking a consensus anchor residue. Borson ND, et al. **J Virol** 1997 Jul;71(7):5244–50

Mouse hepatitis virus is cleared from the central nervous systems of mice lacking perforin-mediated cytolysis. Lin MT, et al. **J Virol** 1997 Jan;71(1):383–91

The immunogenicity of intracerebral virus infection depends on anatomical site. Stevenson PG, et al. **J Virol** 1997 Jan; 71(1):145–51

Cellular immune reactions directed against Toxoplasma gondii with special emphasis on the central nervous system. Däubener W, et al. **Med Microbiol Immunol (Berl)** 1997 Mar;185(4):195–206 (133 ref.)

Microwave antigen retrieval in formaldehyde-fixed human brain tissue. Newman SJ, et al. **Methods Mol Biol** 1997; 72:145–52

Cytokines in the serum and brain in mice infected with

distinct species of Lyme disease Borrelia. Isogai E, et al. **Microb Pathog** 1996 Dec;21(6):413–9

Immune–activation model in Alzheimer disease. Singh VK. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):105–11 (26 ref.)

The autonomic nervous system as a communication channel between the brain and the immune system. Hori T, et al. **Neuroimmunomodulation** 1995 Jul–Aug;2(4):203–15 (101 ref.)

Inhibition of antigen–stimulated effector T cells by human cerebrospinal fluid. Taylor AW, et al. **Neuroimmunomodulation** 1996 Mar–Jun;3(2–3):112–8

Brain–periphery connections: do they play a role in mediating the effect of centrally injected interleukin–1 beta on gonadal function? Turnbull A, et al. **Neuroimmunomodulation** 1995 Jul–Aug;2(4):224–35 (79 ref.)

CNS immunological modulation of neural graft rejection and survival. Borlongan CV, et al. **Neurol Res** 1996 Aug; 18(4):297–304 (70 ref.)

Motivation and reinforcement in the systemic mechanisms of behavior: dynamic reinforcement engrams. Sudakov KV. **Neurosci Behav Physiol** 1996 Sep–Dec;26(5):445–53 (40 ref.)

Immunohistochemical investigation of human leukocyte antigen (HLA)–DR–positive astrocytes in adrenoleukodystrophy brain. Katsuragi T, et al. **Neurosci Lett** 1996 Nov 29;219(3):207–10

Glial tau–positive structures lack the sequence encoded by exon 3 of the tau protein gene. Nishimura T, et al. **Neurosci Lett** 1997 Mar 21;224(3):169–72

Enhanced expression of interleukin (IL)–1 and IL–6 messenger RNA and bioactive protein after hypoxia–ischemia in neonatal rats. Hagberg H, et al. **Pediatr Res** 1996 Oct;40(4):603–9

Hyperresponsive febrile reactions to interleukin (IL) 1alpha and IL–1beta, and altered brain cytokine mRNA and serum cytokine levels, in IL–1beta–deficient mice. Alheim K, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2681–6

The brain's immune system. Streit WJ, et al. **Sci Am** 1995 Nov;273(5):54–5, 58–61 (3 ref.)

Immune control of the brain. Bradl M. **Springer Semin Immunopathol** 1996;18(1):35–49 (82 ref.)

Immune responses to adenovirus vectors in the nervous system. Wood MJ, et al. **Trends Neurosci** 1996 Nov; 19(11):497–501 (47 ref.)

Host immune response to vesicular stomatitis virus infection of the central nervous system in C57BL/6 mice. Christian AY, et al. **Viral Immunol** 1996;9(3):195–205

[Immunologic significance of lymphatic drainage of the brain] Weller RO, et al. **Bull Acad Natl Med** 1997 Apr; 181(4):661–7; discussion 667–71 (Eng. Abstr.) **(Fre)**

[Glioma and intracerebral immunity] Shimizu K. **No To Shinkei** 1997 Mar;49(3):239–50 (104 ref.) **(Jpn)**

[Anti–idiotypic monoclonal antibodies against latrotoxin interact with rat brain synaptosomes and modify latrotoxin–induced calcium entry into synaptosomes] Pashkov VN, et al. **Bioorg Khim** 1996 Jun;22(6):403–7 (Eng. Abstr.) **(Rus)**

[Species specific antigens of glial and nuclear elements of mammalian brains] Veretennikov NA, et al. **Dokl Akad Nauk** 1997 Jan;352(3):424–6 **(Rus)**

[Autoantibodies to brain tissue antigens in epilepsy patients] Morozov SG, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):71–4 (Eng. Abstr.) **(Rus)**

[Antibodies to brain galactocerebrosides in the serum and cerebrospinal fluid of patients with disseminated sclerosis] Totolian NA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):75–7 (Eng. Abstr.) **(Rus)**

INJURIES see BRAIN INJURIES

METABOLISM

Beta–endorphin in the brain. A role in nociception. Bach FW. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 2):133–40 (59 ref.)

Detection of cerebral desaturation during cardiopulmonary bypass by cerebral oximetry [published erratum appears in Acta Anaesthesiol Sin 1997 Mar;35(1):59] Chen CS, et al. **Acta Anaesthesiol Sin** 1996 Dec;34(4):173–8

Regional glucose metabolic rates in the human brain: a PET study. Gulyás B, et al. **Acta Biol Hung** 1996;47(1–4):157–72

Distribution of cholecystokinin–8–like immunoreactivity in the frog brain and spinal cord. Petkó M, et al. **Acta Biol Hung** 1996;47(1–4):355–69

A new screwing device for fixing a microdialysis probe in critical care patients. Kanner A, et al. **Acta Neurochir Suppl (Wien)** 1996;67:63–5

A concept for the introduction of cerebral microdialysis in neurointensive care. Landolt H, et al. **Acta Neurochir Suppl (Wien)** 1996;67:31–6

Intracerebral microdialysis markedly inhibits the propagation of cortical spreading depression. Obrenovitch TP, et al. **Acta Neurochir Suppl (Wien)** 1996;67:21–3

Cerebral metabolism in a case of multiple sclerosis with acute mental disorder. Blinkenberg M, et al. **Acta Neurol Scand** 1996 Nov;94(5):310–3

Regional measurements of NO formed in vivo during brain ischemia. Olesen SP, et al. **Acta Neurol Scand** 1997 Apr; 95(4):219–24

Cerebral metabolism of oxygen and glucose in a patient with MELAS syndrome. Sano M, et al. **Acta Neurol Scand** 1995 Dec;92(6):497–502

Oxidative metabolism deficiencies in brains of patients with Alzheimer's disease. Hoyer S. **Acta Neurol Scand Suppl** 1996;165:18–24 (90 ref.)

Expression of various TGF–beta isoforms and type I receptor in necrotizing human brain lesions. Ata AK, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):326–33

Dense microspheres in normal horse brain. Furuoka H, et al. **Acta Neuropathol (Berl)** 1996;91(4):440–3

Detection of paraneoplastic anti–neuronal autoantibodies on paraffin–embedded tissues. Giometto B, et al. **Acta Neuropathol (Berl)** 1996 Nov;92(5):435–40

Cerebral glucose transporter expression in HIV infection. Kovitz CA, et al. **Acta Neuropathol (Berl)** 1997 Aug; 94(2):140–5

Multiple sclerosis and amyloid deposits in the white matter of the brain. Nennesmo I, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):205–9 (36 ref.)

Glial expression of cytokines in the brains of cerebrovascular disease patients. Tomimoto H, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):281–7

Expression of interleukin–1 receptor antagonist protein in post–mortem human brain tissues of Alzheimer's disease and control cases. Yasuhara O, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):414–20

Cerebral energy metabolism in insulin induced hypoglycemia in newborn piglets: in vivo 31P–nuclear magnetic resonance spectroscopy. Imai T, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):343–7

Cerebral metabolic consequences of neonatal pathologies in the immature rat. Nehlig A, et al. **Acta Paediatr Jpn** 1997 Apr;39 Suppl 1:S26–32

The enhancement and the inhibition of noradrenaline–induced cyclic AMP accumulation in rat brain by stimulation of metabotropic glutamate receptors. Legutko B, et al. **Acta Physiol Hung** 1996;84(3):301–3

Effects of alpha–MSH and cholinergic agents on cGMP and IP3 levels in rat brain slices. Lezcano NE, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(3):193–201

Brain penetration and neurological effects of gadobenate dimeglumine in the rat. Luzzani F, et al. **Acta Radiol** 1997 Mar;38(2):268–72

Functional activation of cerebral glucose uptake after carotid body stimulation. Alvarez–Buylla R, et al. **Adv Exp Med Biol** 1996;410:411–20

Systemic administration of kainate induces marked increases of endogenous kynurenate in various brain regions and plasma of rats. Baran H, et al. **Adv Exp Med Biol** 1996; 398:265–6

Neuropsychiatric implications of brain tryptophan perturbations appearing in hepatic encephalopathy. Bengtsson F, et al. **Adv Exp Med Biol** 1996;398:387–95 (73 ref.)

Is quinolinic acid involved in the pathogenesis of hepatic encephalopathy? Bergqvist PB, et al. **Adv Exp Med Biol** 1996;398:397–405

Taurine in hepatic encephalopathy. Butterworth RF. **Adv Exp Med Biol** 1996;403:601–6 (29 ref.)

28833, a selective kynurenine 3–hydroxylase inhibitor. Effects on the kynurenine pathway metabolites in the gerbil. Cini M, et al. **Adv Exp Med Biol** 1996;398:535–8

Brain tryptophan. Normal and disturbed control. Curzon G. **Adv Exp Med Biol** 1996;398:27–34 (84 ref.)

Brain oxygenation monitoring during cardiopulmonary bypass by near infrared spectroscopy. De Blasi RA, et al. **Adv Exp Med Biol** 1997;413:97–104

Tryptophan and 5–HT in psychiatric illness. Delgado PL, et al. **Adv Exp Med Biol** 1996;398:73

Dynamic NMR studies of perfusion and oxidative metabolism during focal brain activation. Frahm J, et al. **Adv Exp Med Biol** 1997;413:195–203

Aspects of hepatic tryptophan dioxygenase activity and levels of cerebral tryptophan metabolites in two inbred lines of mice. Ghosh D. **Adv Exp Med Biol** 1996;398:539–40

Cannabinoids and interleukin–6 enhance the response to NMDA in developing CNS neurons. Gruol DL, et al. **Adv Exp Med Biol** 1996;402:111–7

Cerebral oxygenation during cardiopulmonary bypass. Harris DN. **Adv Exp Med Biol** 1996;388:41–4

Effect of optode separation on brain penetration in adults. Harris DN, et al. **Adv Exp Med Biol** 1996;388:133–5

Simultaneous assessment of cerebral oxygenation and hemodynamics during a motor task. A combined near infrared and transcranial Doppler sonography study. Hirth C, et al. **Adv Exp Med Biol** 1997;411:461–9

TNFalpha: a neuromodulator in the central nervous system. Ignatowski TA, et al. **Adv Exp Med Biol** 1996;402:219–24

Basal Q10 for cerebral metabolic rate for oxygen (CMRO2) in rats. Klementavicius R, et al. **Adv Exp Med Biol** 1996; 388:191–5

Cellular studies of the taurine transporter. Lake N, et al. **Adv Exp Med Biol** 1996;403:371–6

Effect of anesthesia on cerebral tissue oxygen and cardiopulmonary parameters in rats. Liu KJ, et al. **Adv Exp Med Biol** 1997;411:33–9

Presence of opiate alkaloid–selective mu3 receptors in cultured astrocytes and in brain and retina. Makman MH, et al. **Adv Exp Med Biol** 1996;402:23–8

The energy dependent redox responses of heme and copper in cytochrome oxidase in rat brain in situ. Matsunaga A, et al. **Adv Exp Med Biol** 1996;388:305–10

The functioning gerbil brain in vivo. Correlation between 31P NMR spectroscopy and the multiparametric monitoring approach. Mayevsky A, et al. **Adv Exp Med Biol** 1997;411:41–53

Responses of electrical activity and redox state of cytochrome oxidase to oxygen insufficiency in perfused rat brain in situ. Nomura Y, et al. **Adv Exp Med Biol** 1996; 388:319–26

Cerebral oxygenation changes during motor and somatosensory stimulation in humans, as measured by near–infrared spectroscopy. Obrig H, et al. **Adv Exp Med Biol** 1996;388:219–24

Length of resting period between stimulation cycles modulates hemodynamic response to a motor stimulus. Obrig H, et al. **Adv Exp Med Biol** 1997;411:471–80

Age–related changes in brain metabolism and vulnerability to anoxia. Roberts EL Jr, et al. **Adv Exp Med Biol** 1997; 411:83–9 (23 ref.)

The effects of induced kynurenine pathway on immunocytochemical changes in rat tissues following excessive L–tryptophan consumption. Ronen N, et al. **Adv Exp Med Biol** 1996;398:177–82

Relationship between the drinking response to angiotensin II and induction of Fos in the brain. Rowland NE, et al. **Adv Exp Med Biol** 1996;396:113–9 (35 ref.)

Brain angiotensin II and related receptors: new developments. Saavedra JM, et al. **Adv Exp Med Biol** 1996; 396:247–52 (24 ref.)

4–chloro–3–hydroxyanthranilate attenuate quinolinic acid accumulation in brain following transient cerebral ischemia in the gerbil. Saito K, et al. **Adv Exp Med Biol** 1996; 398:407–11

Kynurenine pathway metabolism in the galactosamine model of hepatic injury. Saito K, et al. **Adv Exp Med Biol** 1996; 398:421–4

Towards near–infrared imaging of the brain. Shinohara Y, et al. **Adv Exp Med Biol** 1997;413:85–9

Kynurenic acid–enhancing and anti–ischemic effects of the potent kynurenine 3–hydroxylase inhibitor FCE 28833 in rodents. Speciale C, et al. **Adv Exp Med Biol** 1996; 398:221–7

Cerebral oxygenation states as revealed by near–infrared spectrophotometry. Tamura M, et al. **Adv Exp Med Biol** 1997;413:91–6 (22 ref.)

Sodium– and chloride–dependent transport of taurine at the blood–brain barrier. Tsuji A, et al. **Adv Exp Med Biol** 1996; 403:385–91 (12 ref.)

How to evaluate slow oxygenation changes to estimate absolute cerebral haemoglobin concentration by near infrared spectrophotometry in neonates. Wolf M, et al. **Adv Exp Med Biol** 1997;411:495–501

Brain Serotonin, Carbohydrate–craving, obesity and depression. Wurtman RJ, et al. **Adv Exp Med Biol** 1996; 398:35–41 (33 ref.)

Equal oxygen delivery may not result in equal oxygen consumption. Ye GF, et al. **Adv Exp Med Biol** 1997; 411:331–6

The role of adhesion molecules in reducing cerebral ischemic cell damage. Chopp M, et al. **Adv Neurol** 1996;71:315–26; discussion 326–7

Role of adenosine as a modulator of synaptic activity in the central nervous system. Brundege JM, et al. **Adv Pharmacol** 1997;39:353–91 (200 ref.)

Pharmacology of neuronal nicotinic acetylcholine receptor subtypes. Colquhoun LM, et al. **Adv Pharmacol** 1997; 39:191–220 (150 ref.)

The normal and pathological physiology of brain water. Go KG. **Adv Tech Stand Neurosurg** 1997;23:47–142 (364 ref.)

Brain proton magnetic resonance spectroscopy in HIV–related encephalopathy: identification of evolving metabolic patterns in relation to dementia and therapy. Salvan AM, et al. **AIDS Res Hum Retroviruses** 1997 Aug 10;13(12):1055–66

MR spectroscopy in the evaluation of enhancing lesions in the brain in multiple sclerosis. Hirsch JA, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1829–36

Proton MR spectroscopy of the brain: clinically useful information obtained in assessing CNS damage in children [letter; comment] Silberstein M, et al. **AJR Am J Roentgenol** 1997 May;168(5):1379–80. Comment on: AJR Am J Roentgenol 1996 Jul;167(1):191–9.

Brain nucleic acid composition and fractional rates of protein synthesis in response to chronic ethanol feeding: comparison with skeletal muscle. Bonner AB, et al. **Alcohol** 1996 Nov–Dec;13(6):581–7

Long–term ethanol treatment elicits changes in nicotinic receptor binding in only a few brain regions. Booker TK, et al. **Alcohol** 1997 Mar–Apr;14(2):131–40

Regional CNS densities of monoamine receptors in alcohol–naive alcohol–preferring P and –nonpreferring NP rats. McBride WJ, et al. **Alcohol** 1997 Mar–Apr;14(2):141–8

Interaction of exercise and ethanol on antioxidant enzymes in brain regions of the rat. Somani SM, et al. **Alcohol** 1996 Nov–Dec;13(6):603–10

Elevated AP–1 DNA–binding activity in rat brain during ethanol withdrawal. Beckmann AM, et al. **Alcohol Alcohol Suppl** 1994;2:223–7

Cerebral GABA receptors. Kuriyama K. **Alcohol Alcohol Suppl** 1994;2:181–6 (47 ref.)

Alteration in cerebral GABAB receptor functions during formation of alcohol dependence. Kuriyama K, et al. **Alcohol Alcohol Suppl** 1994;2:193–7

Evidence of multiple ethanol pools in the brain: an in vivo proton magnetization transfer study. Meyerhoff DJ, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1283–8

Long–term effects of chronic ethanol on muscarinic receptor binding in rat brain. Rothberg BS, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1613–7

YF476 is a new potent and selective gastrin/cholecystokinin–B receptor antagonist in vitro and in vivo. Takinami Y, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):113–20

Content of brain aluminum is not elevated in Alzheimer disease. Bjertness E, et al. **Alzheimer Dis Assoc Disord** 1996 Fall;10(3):171–4

Retinal and brain accretion of long–chain polyunsaturated fatty acids in developing felines: the effects of corn oil–based maternal diets. Pawlosky RJ, et al. **Am J Clin Nutr** 1997 Feb;65(2):465–72

The formation and measurement of DNA neuroadduction in alcoholism. Case report. Steinberg JJ, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):84–91

Up–regulation of the brain and Purkinje–cell forms of dystrophin transcripts, in Becker muscular dystrophy [letter] Nakamura A, et al. **Am J Hum Genet** 1997 Jun; 60(6):1555–8

Comparison of single photon emission computed tomography findings in cases of healthy adults and solvent–exposed adults. Fincher CE, et al. **Am J Ind Med** 1997 Jan; 31(1):4–14

The brain finger protein gene (ZNF179), a member of the RING finger family, maps within the Smith–Magenis syndrome region at 17p11.2. Kimura T, et al. **Am J Med Genet** 1997 Mar 31;69(3):320–4

D2 dopamine receptor polymorphism and brain regional glucose metabolism. Noble EP, et al. **Am J Med Genet** 1997 Apr 18;74(2):162–6

Isolation of chromosome 18–specific brain transcripts as positional candidates for bipolar disorder. Yoshikawa T, et al. **Am J Med Genet** 1997 Apr 18;74(2):140–9

Effect of magnesium sulfate on excitatory amino acid receptors in the rat brain. I. N–methyl–D–aspartate receptor channel complex. Hallak M, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):575–81

Effect of magnesium sulfate on excitatory amino acid receptors in the rat brain. II. Kainate and alpha–amino–3–hydroxy–5–methylisoxazole–4–propionic acid receptors. Hallak M, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):582–7

Expression and distribution of amyloid precursor protein–like protein–2 in Alzheimer's disease and in normal brain. Crain BJ, et al. **Am J Pathol** 1996 Oct;149(4):1087–95

Abnormal expression of the cell cycle regulators P16 and CDK4 in Alzheimer's disease. McShea A, et al. **Am J Pathol** 1997 Jun;150(6):1933–9

Tumor necrosis factor–alpha expression in the brain during fatal murine cerebral malaria: evidence for production by microglia and astrocytes. Medana IM, et al. **Am J Pathol** 1997 Apr;150(4):1473–86

Expression pattern and cellular origin of cytokines in the normal and Toxoplasma gondii–infected murine brain. Schlüter D, et al. **Am J Pathol** 1997 Mar;150(3):1021–35

Presenilin–1 is associated with Alzheimer's disease amyloid. Wisniewski T, et al. **Am J Pathol** 1997 Aug;151(2):601–10

Rates of local cerebral protein synthesis in fetal and neonatal sheep. Abrams RM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1235–44

Inhibition of brain P–450 arachidonic acid epoxygenase decreases baseline cerebral blood flow. Alkayed NJ, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1541–6

Near–infrared monitoring of cerebral tissue oxygen saturation and blood volume in newborn piglets. Brun NC, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H682–6

Central V1 AVP receptors are involved in cardiovascular adaptation to hypovolemia in WKY but not in SHR. Budzikowski AS, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1057–64

Involvement of cyclooxygenase–2 in LPS–induced fever and regulation of its mRNA by LPS in the rat brain. Cao C, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1712–25

Central lipopolysaccharide elevates plasma IL–6 concentration by an alpha–adrenoreceptor–mediated mechanism. Finck BN, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1880–7

Expression of monocarboxylate transporter MCT1 by brain endothelium and glia in adult and suckling rats. Gerhart DZ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E207–13

Uncoupling of local cerebral glucose metabolism and blood flow after acute fluid–percussion injury in rats. Ginsberg MD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2859–68

Comparison of ANP binding and sensitivity in brains from hypertensive and normotensive rats. Grove KL, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1344–53

Reversal of portacaval shunting normalizes brain energy consumption in most brain structures. Hawkins PA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1015–20

Chronic central nervous system exposure to interleukin–1 beta causes catabolism in the rat. Hill AG, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1142–8

In vivo brain phosphocreatine and ATP regulation in mice fed a creatine analog. Holtzman D, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1567–77

Changes of atrial natriuretic peptide in brain areas of rats with chronic myocardial infarction. Hu K, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H312–6

Central noradrenergic system modulates plasma interleukin–6 production by peripheral interleukin–1. Huang QH, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R731–8

In situ localization and osmotic regulation of the Na(+)–myo–inositol cotransporter in rat brain. Ibsen L, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F877–85

Central interleukin–1 partially mediates endotoxin–induced changes in glucose metabolism. Lang CH, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E309–16

Evidence that centrally released arginine vasopressin is involved in central pressor action of angiotensin II. Loń S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H167–73

Peripheral endotoxin increases splenic sympathetic nerve activity via central prostaglandin synthesis. MacNeil BJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R609–14

Acute modulation of active carrier–mediated brain–to–blood transport of corticotropin–releasing hormone. Martins JM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E312–9

Histaminergic contribution to the metabolic effects of neuroglucopenia. Molina PE, et al. **Am J Physiol** 1997 Jun; 272(6 Pt 2):R1918–24

Calcium chelators enhance 45Ca accumulation in permeablized synaptosomes and in microsomes. Moore JE, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C628–35

Use of [3H]methylglucose and [14C]iodoantipyrine to determine kinetic parameters of glucose transport in rat brain. Mori K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R163–71

Inhibition of nitric oxide synthase in the brain suppresses colonic motor activity. Ohta D, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G717–24

Transthyretin is not essential for thyroxine to reach the brain and other tissues in transthyretin–null mice. Palha JA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E485–93

Interleukin–6 (IL–6) is secreted from the brain after intracerebroventricular injection of IL–1 beta in rats. Romero LI, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R518–24

Brain angiotensin II tonically modulates sympathetic baroreflex in rabbit ventrolateral medulla. Saigusa T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1015–21

Role of central ANG II receptors in stress–induced cardiovascular and hyperthermic responses in rats. Saiki Y, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R26–33

Reduction of cytochrome–c oxidase copper precedes failing cerebral O2 utilization in fluorocarbon–perfused cats. Stingele R, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H579–87

Osmoregulation of the magnocellular neuroendocrine system during lactation. Summy–Long JY, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R275–88

Inhibition of brain interleukin–1 attenuates sleep rebound after sleep deprivation in rabbits. Takahashi S, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R677–82

Chronic insulin hypoglycemia induces GLUT–3 protein in rat brain neurons. Uehara Y, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 1):E716–9

Cerebral O2 transport with hematocrit reduced by cross–linked hemoglobin transfusion. Ulatowski JA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H466–75

Glucose utilization and glucose transporter proteins GLUT–1 and GLUT–3 in brains of diabetic (db/db) mice. Vannucci SJ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E267–74

Characterization and distribution of the neuronal glutamate transporter EAAC1 in rat brain. Velaz–Faircloth M, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C67–75

Effects of the intraluminal Ca load on the kinetics of 45Ca uptake and efflux in brain microsomes. Wells KM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1472–9

Efficient oligonucleotide delivery using the HVJ–liposome method in the central nervous system. Yamada K, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1212–20

Oral 18F–fluoro–2–deoxyglucose for primate PET studies without behavioral restraint: demonstration of principle. Martinez ZA, et al. **Am J Primatol** 1997;42(3):215–24

Association of premorbid intellectual function with cerebral metabolism in Alzheimer's disease: implications for the cognitive reserve hypothesis. Alexander GE, et al. **Am J Psychiatry** 1997 Feb;154(2):165–72

Regionally specific pattern of neurochemical pathology in schizophrenia as assessed by multislice proton magnetic resonance spectroscopic imaging. Bertolino A, et al. **Am J Psychiatry** 1996 Dec;153(12):1554–63

Inverse relationship of peripheral thyrotropin–stimulating hormone levels to brain activity in mood disorders. Marangell LB, et al. **Am J Psychiatry** 1997 Feb; 154(2):224–30

Low glucose metabolism during brain stimulation in older Down's syndrome subjects at risk for Alzheimer's disease prior to dementia. Pietrini P, et al. **Am J Psychiatry** 1997 Aug;154(8):1063–9

Brain proton magnetic resonance spectroscopy (1H–MRS) in Alzheimer's disease: changes after treatment with xanomeline, an M1 selective cholinergic agonist. Satlin A, et al. **Am J Psychiatry** 1997 Oct;154(10):1459–61

19F magnetic resonance spectroscopy investigation in vivo of acute and steady–state brain fluvoxamine levels in obsessive–compulsive disorder. Strauss WL, et al. **Am J Psychiatry** 1997 Apr;154(4):516–22

Effects of methylphenidate on regional brain glucose metabolism in humans: relationship to dopamine D2 receptors. Volkow ND, et al. **Am J Psychiatry** 1997 Jan; 154(1):50–5

Cerebral metabolism in sleep apnea Evaluation by magnetic resonance spectroscopy. Kamba M, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):296–8

Monitors of cerebral oxygenation [letter] Imray C, et al. **Anaesthesia** 1997 Aug;52(8):805

A comparison of the Invos 3100 and the Critikon 2020 near–infrared spectrophotometers as monitors of cerebral oxygenation. McKeating EG, et al. **Anaesthesia** 1997 Feb; 52(2):136–40

Preparation of functionally active [35S]leptin for mapping its receptors in the brain. Guan XM, et al. **Anal Biochem** 1997 Apr 5;247(1):175–7

Distribution of serotonin–immunoreactivity in the brain of the pigeon (Columba livia). Challet E, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):209–27

Distribution of glial fibrillary acidic protein–immunopositive structures in the developing brain of the turtle Mauremys leprosa. Kálmán M, et al. **Anat Embryol (Berl)** 1997 Jul; 196(1):47–65

Renin and angiotensin II receptor expression in the brains of DES–treated Syrian hamsters. Dodge AH, et al. **Anat Rec** 1997 Jul;248(3):442–6

Modulation of ischemic excitatory neurotransmitter and gamma–aminobutyric acid release during global temporary cerebral ischemia by local nitric oxide synthase inhibition. Kahn RA, et al. **Anesth Analg** 1997 May;84(5):1004–10

Modulation of ischemic excitatory neurotransmitter and gamma–aminobutyric acid release during global temporary cerebral ischemia by selective neuronal nitric oxide synthase inhibition. Kahn RA, et al. **Anesth Analg** 1997 May;84(5):997–1003

The effects of plasma and brain magnesium concentrations on lidocaine–induced seizures in the rat. Kim YJ, et al. **Anesth Analg** 1996 Dec;83(6):1223–8

The effects of sevoflurane on recovery of brain energy metabolism after cerebral ischemia in the rat: a comparison with isoflurane and halothane. Nakajima Y, et al. **Anesth Analg** 1997 Sep;85(3):593–9

Cerebral near–infrared spectroscopy: a plea for modest expectations [editorial; comment] Pollard V, et al. **Anesth Analg** 1996 Oct;83(4):673–4. Comment on: Anesth Analg 1996 Oct;83(4):726–30.

Regional cerebral oxygen saturation during electroconvulsive therapy: monitoring by near–infrared spectrophotometry [see comments] Saito S, et al. **Anesth Analg** 1996 Oct; 83(4):726–30. Comment in: Anesth Analg 1996 Oct;83(4):673–4.

Cerebral oxygen saturation and blood flow during liver transplantation. Skak C, et al. **Anesth Analg** 1997 Apr; 84(4):730–3

Positron emission tomography study of regional cerebral metabolism in humans during isoflurane anesthesia. Alkire MT, et al. **Anesthesiology** 1997 Mar;86(3):549–57

Cerebral oxygenation during deep hypothermic cardiopulmonary bypass: is hemoglobin relevant? [letter; comment] Gunter JB. **Anesthesiology** 1996 Oct;85(4):940–2 . Comment on: Anesthesiology 1995 Aug;83(2):405–12.

The cerebral pharmacokinetics of meperidine and alfentanil in conscious sheep. Upton RN, et al. **Anesthesiology** 1997 Jun;86(6):1317–25

Development and mapping of polymorphic microsatellite markers derived from a chicken brain cDNA library. Ruyter–Spira CP, et al. **Anim Genet** 1996 Aug;27(4):229–34

Effects of iron complexes on brain calcium homeostasis. Anghileri LJ, et al. **Ann Clin Lab Sci** 1997 May–Jun; 27(3):210–5

Synaptocanalins (N–type Ca channel–associated proteins) form a complex with SNAP–25 and synaptotagmin. Abe T, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:373–5

Prostaglandin E2 enters the brain following stimulation of the acute phase immune response. Abul HT, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:287–95

Characterization of adrenal hormone binding sites in the prairie vole. Hastings NB, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:525–9

Central interleukin–1 receptors as mediators of sickness. Kelley KW, et al. **Ann N Y Acad Sci** 1997 Aug 14; 823:234–46 (91 ref.)

Molecular basis of the muscarinic acetylcholine receptor. Kubo T. **Ann N Y Acad Sci** 1993 Dec 20;707:210–24 (44 ref.)

Positron emission tomography study of the alterations in brain distribution of [11C]methamphetamine in methamphetamine–sensitized dog. Nakamura H, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:401–8

In vitro phosphorylation of rat brain nicotinic acetylcholine receptor by cAMP–dependent protein kinase. Nakayama H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:439–42

Primary structure and tissue distribution of a novel calcium channel from rabbit brain. Niidome T, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:368–72

Posttraumatic stress and depression. A neurochemical anatomy of the learned helplessness animal model. Petty F, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:529–32

In vivo imaging of fatty acid incorporation into brain to examine signal transduction and neuroplasticity involving phospholipids. Rapoport SI, et al. **Ann N Y Acad Sci** 1997 May 30;820:56–73; discussion 73–4 (35 ref.)

Functional neuroimaging studies in posttraumatic stress disorder. Rauch SL, et al. **Ann N Y Acad Sci** 1997 Jun

21;821:83–98 (49 ref.)
Immunohistochemical localization of metabotropic and ionotropic glutamate receptors in the mouse brain. Ryo Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:554–6
Distribution and processing of secretoneurin in the developing rat brain. Saria A, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:90–6
Social stress, depression, and brain dopamine in female cynomolgus monkeys. Shively CA, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:574–7
Astrocytes are one of the main target cells for pituitary adenylate cyclase–activating polypeptide in the central nervous system. Astrocytes are very heterogeneous regarding both basal movement of intracellular free calcium ([Ca2+]i) and the [Ca2+]i response to PACAP at a single cell level. Tatsuno I, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:613–9
Are there oxytocin receptors in the primate brain? Toloczko DM, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:506–9
Magnetic resonance spectroscopy and spectroscopic imaging for the study of brain metabolism. Van Zijl PC, et al. **Ann N Y Acad Sci** 1997 May 30;820:75–96 (51 ref.)
Distinct spatio–temporal distributions of the NMDA receptor channel subunit mRNAs in the brain. Watanabe M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:463–6
Tissue–specific expression of putative domains of the mouse neuronal alpha–2 and delta genes of the voltage–gated calcium channel in rodent tissues. Wierzbicki AS, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:472–5
The 5' flanking region of the monogamous prairie vole oxytocin receptor gene directs tissue–specific expression in transgenic mice. Young LJ, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:514–7
Delayed OEF elevation is an unreliable index of tissue at risk [letter; comment] Ginsberg MD. **Ann Neurol** 1997 Mar; 41(3):411–4. Comment on: Ann Neurol 1996 Aug;40(2):216–26.
Deficient glutamate transport is associated with neurodegeneration in Alzheimer's disease. Masliah E, et al. **Ann Neurol** 1996 Nov;40(5):759–66
Regional and cellular expression of the Machado–Joseph disease gene in brains of normal and affected individuals. Nishiyama K, et al. **Ann Neurol** 1996 Nov;40(5):776–81
Low brain GABA level is associated with poor seizure control. Petroff OA, et al. **Ann Neurol** 1996 Dec; 40(6):908–11
Differential effects of levodopa on dopaminergic function in early and advanced Parkinson's disease. Torstenson R, et al. **Ann Neurol** 1997 Mar;41(3):334–40
Calcium–permeable alpha–amino–3–hydroxy–5–methyl–4–isoxazole propionic acid receptors: a molecular determinant of selective vulnerability in amyotrophic lateral sclerosis. Williams TL, et al. **Ann Neurol** 1997 Aug;42(2):200–7
Cerebral near–infrared spectroscopy in children undergoing heart surgery [letter] Wollert HG, et al. **Ann Neurol** 1996 Nov;40(5):818–9
Effects of reserpine treatment on the dopamine receptor binding of [3H/11C]nemonapride in the mouse and rat brain. Ishiwata K, et al. **Ann Nucl Med** 1997 Feb;11(1):21–6
A brain uptake study of [1–(11)C]hexanoate in the mouse: the effect of hypoxia, starvation and substrate competition. Ishiwata K, et al. **Ann Nucl Med** 1996 May;10(2):265–70
A method for the quantification of benzodiazepine receptors by using 123I–iomazenil and SPECT with one scan and one blood sampling. Ito H, et al. **Ann Nucl Med** 1997 May; 11(2):101–8
Evaluation of the brain uptake properties of [1–11C]labeled hexanoate in anesthetized cats by means of positron emission tomography. Sakiyama Y, et al. **Ann Nucl Med** 1996 Aug;10(3):361–6
The brain uses mostly dissolved oxygen during profoundly hypothermic cardiopulmonary bypass. Dexter F, et al. **Ann Thorac Surg** 1997 Jun;63(6):1725–9
Cerebral oxygenation measured by near–infrared spectroscopy [letter; comment] Nollert G. **Ann Thorac Surg** 1997 Jan;63(1):291–2; discussion 292–3. Comment on: Ann Thorac Surg 1996 Mar;61(3):930–4.
Cerebral oxygenation measured by near–infrared spectroscopy [letter; comment] Wollert HG, et al. **Ann Thorac Surg** 1997 Jan;63(1):292; discussion 292–3. Comment on: Ann Thorac Surg 1996 Mar;61(3):930–4.
Effective ribavirin concentration in hamster brains for antiviral chemotherapy for subacute sclerosing panencephalitis. Ishii T, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):241–3
Distribution of azithromycin into brain tissue, cerebrospinal fluid, and aqueous humor of the eye. Jaruratanasirikul S, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):825–6
Effect of age and caloric intake on protein oxidation in different brain regions and on behavioral functions of the mouse. Dubey A, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):189–97
Myelin is a preferential target of aluminum–mediated oxidative damage. Verstraeten SV, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):289–94
Positron emission tomography measurement of cerebral metabolic correlates of yohimbine administration in combat–related posttraumatic stress disorder. Bremner JD, et al. **Arch Gen Psychiatry** 1997 Mar;54(3):246–54
The brain metabolic patterns of clozapine– and fluphenazine–treated patients with schizophrenia during a continuous performance task. Cohen RM, et al. **Arch Gen Psychiatry** 1997 May;54(5):481–6
No difference in cerebral glucose metabolism in patients with Alzheimer disease and differing apolipoprotein E genotypes. Corder EH, et al. **Arch Neurol** 1997 Mar; 54(3):273–7
Proton magnetic resonance spectroscopy of vascular– and Alzheimer–type dementia. Kattapong VJ, et al. **Arch Neurol** 1996 Jul;53(7):678–80
Pattern of interictal hypometabolism in PET scans with fludeoxyglucose F 18 reflects prior seizure types in patients with mesial temporal lobe seizures. Savic I, et al. **Arch Neurol** 1997 Feb;54(2):129–36
Localized proton magnetic resonance spectroscopy in patients with adult adrenoleukodystrophy. Increase of choline compounds in normal appearing white matter. Tourbah A, et al. **Arch Neurol** 1997 May;54(5):586–92
Structure–activity relationship studies of CNS agents, Part 32: Effect of structural modifications in 1–arylpiperazine derivatives on alpha(1) –adrenoreceptor affinity. Mokrosz MJ, et al. **Arch Pharm (Weinheim)** 1997 Jun;330(6):177–80
Influence of the route of administration and the chemical form (MnCl2, MnO2) on the absorption and cerebral distribution of manganese in rats. Roels H, et al. **Arch Toxicol** 1997;71(4):223–30
Effects of paraquat on mitochondrial electron transport system and catecholamine contents in rat brain. Tawara T, et al. **Arch Toxicol** 1996;70(9):585–9
Glutathione depletion in the liver and brain produced by 2–chloropropionic acid: relevance to cerebellar granule cell necrosis. Wyatt I, et al. **Arch Toxicol** 1996;70(6):380–9
Changes in brain pH, PO2, PCO2, cerebral blood flow, and blood gases induced by a hyperosmolar oxyreplete hemosubstitute during cardiopulmonary bypass. Briceño JC, et al. **ASAIO J** 1997 Jan–Feb;43(1):13–8
Characterization of [3H]GR 113808 binding to 5–HT4 receptors in brain tissues from patients with neurodegenerative disorders. Wong EH, et al. **Behav Brain Res** 1996;73(1–2):249–52
Cloning and expression of a brain–derived TSH receptor. Bockmann J, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):173–8
Molecular cloning, sequencing, and brain expression of the presenilin 1 gene in Microcebus murinus. Calenda A, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):430–9
Ontogeny of GABA pathway in human fetal brains. Das SK, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):544–8
The origin and turnover of D–serine in brain. Dunlop DS, et al. **Biochem Biophys Res Commun** 1997 Jun 9; 235(1):26–30
Protein half–lives of calmodulin and the plasma membrane Ca–ATPase in rat brain. Ferrington DA, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):163–5
Subunit of glycosylation–inhibiting factor is an abundant protein that binds to certain glycoproteins and sugars. Galat A, et al. **Biochem Biophys Res Commun** 1997 Aug 8; 237(1):46–51
Distribution of protein inhibitor of neuronal nitric oxide synthase in rat brain. Greenwood MT, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):617–21
NACP, a synaptic protein involved in Alzheimer's disease, is differentially regulated during megakaryocyte differentiation. Hashimoto M, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):611–6
In vivo regulation of the IL–1 beta system (ligand, receptors I and II, receptor accessory protein, and receptor antagonist) and TNF–alpha mRNAs in specific brain regions. Ilyin SE, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):861–7
Dopaminergic transmitter up–regulation of brain–derived neurotrophic factor (BDNF) and nerve growth factor (NGF) synthesis in mouse astrocytes in culture. Inoue S, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):468–72
Depletion of cerebral D–serine in non–ketotic hyperglycinemia: possible involvement of glycine cleavage system in control of endogenous D–serine. Iwama H, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):793–6
Changes of p53 in the brains of patients with Alzheimer's disease. Kitamura Y, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):418–21
High uptake of [2–11C]acetyl–L–carnitine into the brain: a PET study. Kuratsune H, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):488–93
A putative tetrapeptide antagonist prevents beta–amyloid–induced long–term elevation of [Ca2+]i in rat astrocytes. Laskay G, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):479–81
Cloning of P2Y6 cDNAs and identification of a pseudogene: comparison of P2Y receptor subtype expression in bone and brain tissues. Maier R, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):297–302
Biochemical evidence for orphanin FQ/nociceptin receptor heterogeneity in mouse brain. Mathis JP, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):462–5
Expression of a kinase–defective Eph–like receptor in the normal human brain. Matsuoka H, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):487–92
Cytoplasmic gene expression system enhances the efficiency of cationic liposome–mediated in vivo gene transfer into mouse brain. Mizuguchi H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):15–8
Differential display cloning of a novel rat cDNA (RNB6) that shows high expression in the neonatal brain revealed a member of Ena/VASP family. Ohta S, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):307–12
Cloning of human cDNA encoding a novel heptahelix receptor expressed in Burkitt's lymphoma and widely distributed in brain and peripheral tissues. Owman C, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):285–92
Deuterium distribution in lactate as tracer of metabolic pathways. Vianello F, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):650–2
Self–assembly of the brain MAP–2 microtubule–binding region into polymeric structures resembling Alzheimer filaments. Zhang EY, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):176–81
Interaction of Nck–associated protein 1 with activated GTP–binding protein Rac. Kitamura Y, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):873–8
A study of the oligomeric state of the alpha–amino–3–hydroxy–5–methyl–4–isoxazolepropionic acid–preferring glutamate receptors in the synaptic junctions of porcine brain. Wu TY, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):731–9
Modulation of muscarinic receptor–stimulated phosphoinositide breakdown by sulfhydryl group modification is a general response in different rat brain regions and depends on the stage of brain development. Balduini W, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):427–32
Alterations in eighteen–carbon saturated, monounsaturated and polyunsaturated fatty acid peroxisomal oxidation in mouse brain during development and aging. Bourre JM, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):461–8
Ontogeny of neurotransmitter amino acids in human fetal brains. Das SK, et al. **Biochem Mol Biol Int** 1997 Jun; 42(1):193–202
The effects of chronic administration of nimodipine on age–related changes in nitric oxide and its synthase in senescence–accelerated mouse brain. Inada K, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):753–65
The fate of glutamate in different brain regions of the chick during Newcastle disease virus infection. Lokanatha V, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):215–21
Intravenous injections of the ribosome inactivating protein trichosanthin did not affect methionine enkephalin and beta–endorphin levels in the mouse brain and pituitary. Ng TB, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):985–9
TsTX–VII, a new toxin from Tityus serrulatus scorpion venom able to induce the release of neurotransmitters from rat brain synaptosomes not blocked by tetrodotoxin. Sampaio SV, et al. **Biochem Mol Biol Int** 1997 May; 41(6):1255–63
Oxidation of bilirubin by brain mitochondrial membranes—dependence on cell type and postnatal age. Hansen TW, et al. **Biochem Mol Med** 1997 Apr; 60(2):155–60
Effect of insulin–induced hypoglycemia on cytoskeleton–bound and cytosolic phosphofructokinase and the levels of glucose 1,6–bisphosphate in rat brain. Magen A, et al. **Biochem Mol Med** 1995 Dec;56(2):94–8
Isolation and expression of a mouse CB1 cannabinoid receptor gene. Comparison of binding properties with those of native CB1 receptors in mouse brain and N18TG2 neuroblastoma cells. Abood ME, et al. **Biochem Pharmacol** 1997 Jan 24;53(2):207–14
Effects of a chronic lithium treatment on central dopamine neurotransporters. Carli M, et al. **Biochem Pharmacol** 1997 Aug 1;54(3):391–7
Characterization of a novel adenosine binding protein sensitive to cyclic AMP in rat brain cytosolic and particulate fractions. Lorenzen A, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1375–85
Mitochondrial respiratory enzyme function and superoxide dismutase activity following brain glutathione depletion in the rat. Seaton TA, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1657–63
Relation of the [3H] gamma–hydroxybutyric acid (GHB) binding site to the gamma–aminobutyric acidB (GABAB) receptor in rat brain. Snead OC 3rd. **Biochem Pharmacol** 1996 Oct 25;52(8):1235–43
Complexes between hexokinase, mitochondrial porin and adenylate translocator in brain: regulation of hexokinase, oxidative phosphorylation and permeability transition pore. Beutner G, et al. **Biochem Soc Trans** 1997 Feb;25(1):151–7
Measurement of glutathione as a marker of oxidative stress in CNS reaggregate cultures. Fox RM, et al. **Biochem Soc Trans** 1996 Aug;24(3):452S
Reactive oxygen species in experimental allergic encephalomyelitis. Scott GS, et al. **Biochem Soc Trans** 1997 May;25(2):166S
Evidence for distinct dystrophin C–terminal transcripts in rabbit brain. Sesay AK, et al. **Biochem Soc Trans** 1996 May; 24(2):272S
A brain receptor for a subfraction of high density lipoprotein containing apolipoprotein E. Stewart JM, et al. **Biochem Soc Trans** 1996 May;24(2):155S
An essential binding surface for ShK toxin interaction with rat brain potassium channels. Pennington MW, et al. **Biochemistry** 1996 Dec 24;35(51):16407–11

Short-term reduction in dietary intake of magnesium causes deficits in brain intracellular free Mg2+ and [H+]i but not high-energy phosphates as observed by in vivo 31P-NMR. Altura BM, et al. **Biochim Biophys Acta** 1997 Aug 21;1358(1):1-5

Regional distribution and postnatal changes of D-amino acids in rat brain. Hamase K, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):214-22

Changes in metabolism of inorganic polyphosphate in rat tissues and human cells during development and apoptosis. Lorenz B, et al. **Biochim Biophys Acta** 1997 Apr 17; 1335(1-2):51-60

Differential effects of creatine depletion on the regulation of enzyme activities and on creatine-stimulated mitochondrial respiration in skeletal muscle, heart, and brain. O'Gorman E, et al. **Biochim Biophys Acta** 1996 Sep 12;1276(2):161-70

Heat-stable antigen (mouse CD24) in the brain: dual but distinct interaction with P-selectin and L1. Sammar M, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):287-94

Research on polychaete annelid osmoregulatory peptide(s) by immunocytochemical and physiological approaches. Computer reconstruction of the brain and evidence for a role of angiotensin-like molecules in Nereis (Hediste) diversicolor OF Müller. Fewou J, et al. **Biol Cell** 1995; 85(1):21-33

Bilirubin-oxidizing activity in rat brain. Hansen TW, et al. **Biol Neonate** 1996;70(5):289-95

Possible effects of placental leucine aminopeptidase on the regulation of brain-gut hormones in the fetoplacental unit. Mizutani S, et al. **Biol Neonate** 1996;69(5):307-17

Interaction of arenastatin A with porcine brain tubulin. Morita K, et al. **Biol Pharm Bull** 1997 Feb;20(2):171-4

Slow dissociation of long-acting Ca2+ antagonist amlodipine from 3H-PN200-110 binding sites in membranes of rat hearts and brains. Sugiyama K, et al. **Biol Pharm Bull** 1996 Feb;19(2):195-8

Influence of aging on rolipram-sensitive phosphodiesterase activity and [3H]rolipram binding in the rat brain. Tohda M, et al. **Biol Pharm Bull** 1996 Feb;19(2):300-2

Duration of lithium treatment and brain lithium concentration in patients with unipolar and schizoaffective disorder--a study with magnetic resonance spectroscopy. Riedl U, et al. **Biol Psychiatry** 1997 Apr 15;41(8):844-50

Novel expression of functional luteinizing hormone/chorionic gonadotropin receptors in cultured glial cells from neonatal rat brains. AL-Hader AA, et al. **Biol Reprod** 1997 Feb;56(2):501-7

Neurons from fetal rat brains contain functional luteinizing hormone/chorionic gonadotropin receptors. AL-Hader AA, et al. **Biol Reprod** 1997 May;56(5):1071-6

Regulation by guanine nucleotides and cations of melatonin binding sites in the goldfish brain. Iigo M, et al. **Biol Signals** 1997 Jan-Feb;6(1):29-39

Somatostatin-positive neurons in the different parts of the brain in normal aging and Alzheimer's disease. Li WP, et al. **Biol Signals** 1996 Nov-Dec;5(6):343-8

Effects of iron deficiency and iron overload on manganese uptake and deposition in the brain and other organs of the rat. Chua AC, et al. **Biol Trace Elem Res** 1996 Oct-Nov; 55(1-2):39-54

Influence of alimentary zinc deficiency on the concentration of the second messengers D-myo-inositol-1,4,5-trisphosphate (IP3) and s,n-1,2-diacylglycerol (DAG) in testes and brain of force-fed rats. Moser C, et al. **Biol Trace Elem Res** 1996 Jun;52(3):281-91

Concentration of rare earth elements, As, and Th in human brain and brain tumors, determined by neutron activation analysis. Zhuang G, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):45-9

Uptake of 26-Al and 67-Ga into brain and other tissues of normal and hypotransferrinaemic mice. Radunović A, et al. **Biometals** 1997 Jul;10(3):185-91

Synthesis of [11C]RPR-72840A and its evaluation as a radioligand for the serotonin reuptake site in positron emission tomography. Roeda D, et al. **Bioorg Med Chem** 1997 Feb;5(2):397-403

The choline-leakage hypothesis for the loss of acetylcholine in Alzheimer's disease. Ehrenstein G, et al. **Biophys J** 1997 Sep;73(3):1276-80

Increased brain serotonin function in men with chronic fatigue syndrome. Sharpe M, et al. **BMJ** 1997 Jul 19; 315(7101):164-5

Brain tissue oxygenation in patients with cerebral occlusive disease and arteriovenous malformations. Hoffman WE, et al. **Br J Anaesth** 1997 Feb;78(2):169-71

Transcranial cytokine gradients in patients requiring intensive care after acute brain injury. McKeating EG, et al. **Br J Anaesth** 1997 May;78(5):520-3

Tissue-specific modification of selenium concentration by acute and chronic dexamethasone administration in mice. Watanabe C, et al. **Br J Nutr** 1997 Sep;78(3):501-9

The influence of membrane cholesterol on the GABAA receptor. Bennett PJ, et al. **Br J Pharmacol** 1996 Jan; 117(1):87-92

Substantial excretion of digoxin via the intestinal mucosa and prevention of long-term digoxin accumulation in the brain by the mdr 1a P-glycoprotein. Mayer U, et al. **Br J Pharmacol** 1996 Nov;119(5):1038-44

An autoradiographic study of dextromethorphan high-affinity binding sites in rat brain: sodium-dependency and colocalization with paroxetine. Meoni P, et al. **Br J Pharmacol** 1997 Apr;120(7):1255-62

High affinity of sigma 1-binding sites for sterol isomerization inhibitors: evidence for a pharmacological relationship with the yeast sterol C8-C7 isomerase. Moebius FF, et al. **Br J Pharmacol** 1997 May;121(1):1-6

Regionally different N-methyl-D-aspartate receptors distinguished by ligand binding and quantitative autoradiography of [3H]-CGP 39653 in rat brain. Mugnaini M, et al. **Br J Pharmacol** 1996 Nov;119(5):819-28

Differential action of NMDA antagonists on cholinergic neurotoxicity produced by N-methyl-D-aspartate and quinolinic acid. Pawley AC, et al. **Br J Pharmacol** 1996 Mar;117(6):1059-64

Pharmacological characterization of metabotropic glutamate receptors coupled to phospholipase D in the rat hippocampus. Pellegrini-Giampietro DE, et al. **Br J Pharmacol** 1996 Jun;118(4):1035-43

Facilitation of imipramine efflux from the brain by systemic specific antibodies. Ragusi C, et al. **Br J Pharmacol** 1996 Aug;118(8):2152-6

Effects of delayed treatment with nebracetam on neurotransmitters in brain regions after microsphere embolism in rats. Takeo S, et al. **Br J Pharmacol** 1997 Jun; 121(3):477-84

Comparison of the uptake of [3H]-gabapentin with the uptake of L-[3H]-leucine into rat brain synaptosomes. Thurlow RJ, et al. **Br J Pharmacol** 1996 Jun;118(3):449-56

PET study of the pre- and post-synaptic dopaminergic markers for the neurodegenerative process in Huntington's disease. Ginovart N, et al. **Brain** 1997 Mar;120 (Pt 3):503-14

Alterations in brain and plasma concentrations of alpha-melanocyte-stimulating hormone during habituation of prey-catching behavior in toads. Kim Y, et al. **Brain Behav Evol** 1997;49(3):149-61

Neuroanatomical distribution of chicken-I gonadotropin-releasing hormone (cGnRH-I) in the brain of the male red-sided garter snake. Smith MT, et al. **Brain Behav Evol** 1997;49(3):137-48

Agonistic interactions affect brain serotonergic activity in an acanthopterygiian fish: the bicolor damselfish (Pomacentrus partitus). Winberg S, et al. **Brain Behav Evol** 1996;48(4):213-20

Neurobehavioral alterations in developing transgenic mice expressing TNF-alpha in the brain. Fiore M, et al. **Brain Behav Immun** 1996 Jun;10(2):126-38

Stress downregulates lipopolysaccharide-induced expression of proinflammatory cytokines in the spleen, pituitary, and brain of mice. Goujon E, et al. **Brain Behav Immun** 1995 Dec;9(4):292-303

A PET follow-up study of recovery after stroke in acute aphasics. Cappa SF, et al. **Brain Lang** 1997 Jan;56(1):55-67

Localization of tuberous sclerosis 2 mRNA and its protein product tuberin in normal human brain and in cerebral lesions of patients with tuberous sclerosis [see comments] Kerfoot C, et al. **Brain Pathol** 1996 Oct;6(4):367-75. Comment in: Brain Pathol 1996 Oct;6(4):375-6. Comment in: Brain Pathol 1996 Oct;6(4):376-7.

[3H]WIN 35,428 binding in the human brain. Allard P, et al. **Brain Res** 1996 Jan 15;706(2):347-50

Cellular distribution of the rat D4 dopamine receptor protein in the CNS using anti-receptor antisera. Ariano MA, et al. **Brain Res** 1997 Mar 28;752(1-2):26-34

Opposite modulatory effects of ovarian hormones on rat brain dopamine and serotonin transporters. Attali G, et al. **Brain Res** 1997 May 9;756(1-2):153-9

Circadian variation of nitric oxide synthase activity and cytosolic protein levels in rat brain. Ayers NA, et al. **Brain Res** 1996 Jan 22;707(1):127-30

Localization of galanin and its binding sites in the quail brain. Azumaya Y, et al. **Brain Res** 1996 Jul 15;727(1-2):187-95

bFGF and FGFR-3 immunoreactivity in the rat brain following systemic kainic acid administration at convulsant doses: localization of bFGF and FGFR-3 in reactive astrocytes, and FGFR-3 in reactive microglia. Ballabriga J, et al. **Brain Res** 1997 Mar 28;752(1-2):315-8

Comparison of neurotrophin regulation of human and rat neuropeptide Y (NPY) neurons: induction of NPY production in aggregate cultures derived from rat but not from human fetal brains. Barnea A, et al. **Brain Res** 1996 Sep 2;732(1-2):52-60

Characterization of a sheep brain corticotropin releasing factor binding protein (Brain Research 709 (1996) 265-274) (BRES 11959). Behan DP, et al. **Brain Res** 1996 Sep 2; 732(1-2):267

Characterization of a sheep brain corticotropin releasing factor binding protein [published erratum appears in Brain Res 1996 Sep 2;732(1-2):267] Behan DP, et al. **Brain Res** 1996 Feb 19;709(2):265-74

Urocortin interaction with corticotropin-releasing factor (CRF) binding protein (CRF-BP): a novel mechanism for elevating "free' CRF levels in human brain. Behan DP, et al. **Brain Res** 1996 Jul 1;725(2):263-7

Changes in serotonin and norepinephrine uptake sites after chronic cocaine: pre- vs. post-withdrawal effects. Belej T, et al. **Brain Res** 1996 Oct 14;736(1-2):287-96

Composition of white matter bovine brain coated vesicles: evidence that several components influence beta-amyloid peptide to form oligomers and aggregates in vitro. Berg MJ, et al. **Brain Res** 1997 Mar 28;752(1-2):72-80

Modification of the binding of [3H]MK-801 to brain regions and spinal cord of rats treated chronically with U-50,488H, a kappa-opioid receptor agonist. Bhargava HN, et al. **Brain Res** 1997 Feb 28;749(2):347-50

Immunohistochemical analysis of presenilin 2 expression in the mouse brain: distribution pattern and co-localization with presenilin 1 protein. Blanchard V, et al. **Brain Res** 1997 May 30;758(1-2):209-17

Autoradiographic characterization of [3H]cGMP binding sites in the rat brain. Bonkale WL, et al. **Brain Res** 1997 Jul 18;763(1):1-13

Dopamine D1 and D2 receptor binding sites in brain samples from depressed suicides and controls. Bowden C, et al. **Brain Res** 1997 Mar 28;752(1-2):227-33

Neuronal plasticity in aging: a quantitative immunohistochemical study of GAP-43 distribution in discrete regions of the rat brain. Casoli T, et al. **Brain Res** 1996 Apr 1;714(1-2):111-7

Brain incorporation of [1-11C]arachidonate in normocapnic and hypercapnic monkeys, measured with positron emission tomography. Chang MC, et al. **Brain Res** 1997 Apr 25;755(1):74-83

Altered Fos-like immunoreactivity in terminal regions of the mesotelencephalic dopamine system is associated with reappearance of tyrosine hydroxylase immunoreactivity at the sites of focal 6-hydroxydopamine lesions in the nucleus accumbens. Chapman MA, et al. **Brain Res** 1996 Oct 14; 736(1-2):270-9

An autoradiographic study of serotonergic receptors in a murine genetic model of anxiety-related behaviors. Clement Y, et al. **Brain Res** 1996 Feb 19;709(2):229-42

Fos immunoreactivity in the rat brain following consummatory elements of sexual behavior: a sex comparison. Coolen LM, et al. **Brain Res** 1996 Oct 28; 738(1):67-82

Effects of age and sociosexual experience on the morphology and metabolic capacity of brain nuclei in the leopard gecko (Eublepharis macularius), a lizard with temperature-dependent sex determination. Crews D, et al. **Brain Res** 1997 May 30;758(1-2):169-79

Proconvulsive effect of vasopressin; mediation by a putative V2 receptor subtype in the central nervous system. Croiset G, et al. **Brain Res** 1997 Jun 6;759(1):18-23

Human A beta-amyloid and amyloid precursor protein accumulates in rat brain cells after cultured human leptomeningeal fibroblast implants. DeGiorgio LA, et al. **Brain Res** 1997 Mar 28;752(1-2):35-44

Brain alpha-adrenoceptors in depressed suicides. De Paermentier F, et al. **Brain Res** 1997 May 16;757(1):60-8

Increased expression of the peripheral-type benzodiazepine receptor-isoquinoline carboxamide binding protein mRNA in brain following portacaval anastomosis. Desjardins P, et al. **Brain Res** 1997 May 30;758(1-2):255-8

Affinity of naloxone and its quaternary analogue for avian central delta and mu opioid receptors. Deviche P. **Brain Res** 1997 May 23;757(2):276-9

Brain energy metabolism in early blind subjects: neural activity in the visual cortex. De Volder AG, et al. **Brain Res** 1997 Mar 7;750(1-2):235-44

V+ fibronectin mRNA is increased in the brains of aged rats: effect of food restriction. Dorner H, et al. **Brain Res** 1996 Jul 8;726(1-2):198-206

Cloning of human neuronatin gene and its localization to chromosome-20q 11.2-12: the deduced protein is a novel "proteolipid'. Dou D, et al. **Brain Res** 1996 Jun 3; 723(1-2):8-22

Low-affinity sulfonylurea binding sites reside on neuronal cell bodies in the brain. Dunn-Meynell AA, et al. **Brain Res** 1997 Jan 16;745(1-2):1-9

Diabetes causes differential changes in CNS noradrenergic and dopaminergic neurons in the rat: a molecular study. Figlewicz DP, et al. **Brain Res** 1996 Oct 14;736(1-2):54-60

Autoradiographic localization of dihydrotestosterone and testosterone concentrating neurons in the brain of the oyster toadfish. Fine ML, et al. **Brain Res** 1996 Feb 12; 709(1):65-80

Endogenous Alzheimer's brain factor and oxidized glutathione inhibit antagonist binding to the muscarinic receptor. Frey WH 2nd, et al. **Brain Res** 1996 Apr 1; 714(1-2):87-94

Evidence for receptors for hyaluronan in discrete nerve cell populations of the brain. Fuxe K, et al. **Brain Res** 1996 Oct 14;736(1-2):329-37

Localisation of the adenosine uptake site in the human brain: a comparison with the distribution of adenosine A1 receptors. Glass M, et al. **Brain Res** 1996 Feb 26; 710(1-2):79-91

Down-regulation of rat brain 5-HT uptake carriers after treatment with high doses of D-fenfluramine. Gobbi M, et al. **Brain Res** 1996 Aug 19;730(1-2):165-72

Somatostatin and brain-derived neurotrophic factor mRNA expression in the primate brain: decreased levels of mRNAs during aging. Hayashi M, et al. **Brain Res** 1997 Feb 28; 749(2):283-9

Autoradiographic comparison of [3H]DPDPE and [3H]DSLET binding: evidence for distinct delta 1 and delta 2 opioid receptor populations in rat brain. Hiller JM, et al. **Brain Res** 1996 May 6;719(1-2):85-95

Reduction of telencephalin immunoreactivity in the brain of patients with Alzheimer's disease. Hino H, et al. **Brain Res** 1997 Apr 11;753(2):353-7

Autoradiographic evidence for methamphetamine-induced striatal dopaminergic loss in mouse brain: attenuation in

CuZn-superoxide dismutase transgenic mice. Hirata H, et al. **Brain Res** 1996 Apr 1;714(1-2):95-103

The influence of preischemic hyperglycemia on acute changes in the apparent diffusion coefficient of brain water following global ischemia in rats. Huang NC, et al. **Brain Res** 1997 May 16;757(1):139-45

The effect of methamphetamine on histamine level and histidine decarboxylase activity in the rat brain. Ito C, et al. **Brain Res** 1996 Sep 23;734(1-2):98-102

The disruption of spatial cognition and changes in brain amino acid, monoamine and acetylcholine in rats with transient cerebral ischemia. Iwasaki K, et al. **Brain Res** 1996 Feb 19;709(2):163-72

6-[18F]fluoro-L-m-tyrosine: metabolism, positron emission tomography kinetics, and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine lesions in primates. Jordan S, et al. **Brain Res** 1997 Mar 7; 750(1-2):264-76

Effect of long-term administration of ethyl eicosapentate (EPA-E) on local cerebral blood flow and glucose utilization in stroke-prone spontaneously hypertensive rats (SHRSP). Katayama Y, et al. **Brain Res** 1997 Jul 4; 761(2):300-5

Monoclonal antibody, KK1, recognizes human retinal astrocytes and distinguishes a subtype of astrocytes in mouse brain. Kobayashi K, et al. **Brain Res** 1996 Nov 18; 740(1-2):57-65

Glutamate, glutamine and glutamine synthetase in the neonatal rat brain following hypoxia. Krajnc D, et al. **Brain Res** 1996 Jan 22;707(1):134-7

Transport and elimination of recombinant human NGF during long-term delivery to the brain. Krewson CE, et al. **Brain Res** 1996 Jul 15;727(1-2):169-81

The peripheral benzodiazepine receptor is a sensitive indicator of domoic acid neurotoxicity. Kuhlmann AC, et al. **Brain Res** 1997 Mar 21;751(2):281-8

Enhanced oxidative stress in female rat brain after gonadectomy. Kume-Kick J, et al. **Brain Res** 1996 Oct 28;738(1):8-14

High metabolic rates of 4-hydroxynonenal in brain capillary endothelial cells during hypoxia/reoxygenation. Kunstmann S, et al. **Brain Res** 1996 Nov 18;740(1-2):353-5

Brain corticotropin-releasing factor immunoreactivity and receptors in five inbred rat strains: relationship to forced swimming behaviour. Lahmame A, et al. **Brain Res** 1997 Mar 7;750(1-2):285-92

A sensitive microassay reveals marked regional differences in the capacity of rat brain to generate carbon monoxide. Laitinen JT, et al. **Brain Res** 1995 Oct 2;694(1-2):246-52

Brain microsomal metabolism of phencyclidine in male and female rats. Laurenzana EM, et al. **Brain Res** 1997 May 9;756(1-2):256-65

Effects of chronic cocaine administration on dopamine transporter mRNA and protein in the rat. Letchworth SR, et al. **Brain Res** 1997 Mar 7;750(1-2):214-22

Basic fibroblast growth factor expression and tenascin C immunoreactivity after partial unilateral hemitransection of the rat brain. Lippoldt A, et al. **Brain Res** 1996 Aug 19;730(1-2):1-16

The superoxide production mediated by the redox cycling of xenobiotics in rat brain microsomes is dependent on their reduction potential. Livertoux MH, et al. **Brain Res** 1996 Jul 1;725(2):207-16

The novel antiepileptic drug levetiracetam (ucb L059) induces alterations in GABA metabolism and turnover in discrete areas of rat brain and reduces neuronal activity in substantia nigra pars reticulata. Löscher W, et al. **Brain Res** 1996 Oct 7;735(2):208-16

Brain [3H]cAMP binding sites are unaltered in depressed suicides, but decreased by antidepressants. Lowther S, et al. **Brain Res** 1997 May 30;758(1-2):223-8

Washable endogenous substances and regional heterogeneity in agonist enhanced [3H]MK-801 binding in rat brain. McCoy L, et al. **Brain Res** 1996 Feb 26;710(1-2):103-11

SC1: a marker for astrocytes in the adult rodent brain is upregulated during reactive astrocytosis. McKinnon PJ, et al. **Brain Res** 1996 Feb 12;709(1):27-36

Dexamethasone and forskolin synergistically increase [Met5]enkephalin accumulation in mixed brain cell cultures. McMillian MK, et al. **Brain Res** 1996 Aug 19; 730(1-2):67-74

Corticosterone promotes increased heme oxygenase-2 protein and transcript expression in the newborn rat brain. Maines MD, et al. **Brain Res** 1996 May 25;722(1-2):83-94

Effects of tianeptine, sertraline and clomipramine on brain serotonin metabolism: a voltammetric approach in the rat. Marinesco S, et al. **Brain Res** 1996 Oct 14;736(1-2):82-90

Central corticotropin-releasing factor and benzodiazepine receptor systems are involved in the social isolation stress-induced decrease in ethanol sleep in mice. Matsumoto K, et al. **Brain Res** 1997 Apr 11;753(2):318-21

Role of platelet-activating factor and thromboxane A2 in radical production during ischemia and reperfusion of the rat brain. Matsuo Y, et al. **Brain Res** 1996 Feb 19; 709(2):296-302

Heme-oxygenase-1 induction in glia throughout rat brain following experimental subarachnoid hemorrhage. Matz P, et al. **Brain Res** 1996 Mar 25;713(1-2):211-22

The determination of the extracellular concentration of brain glutamate using quantitative microdialysis. Miele M, et al. **Brain Res** 1996 Jan 22;707(1):131-3

Effect of early exposure to ethanol on the protein and DNA contents of specific brain regions in the rat. Miller MW. **Brain Res** 1996 Sep 23;734(1-2):286-94

Roles of dopamine D1 receptors in delta 9-tetrahydrocannabinol-induced expression of Fos protein in the rat brain. Miyamoto A, et al. **Brain Res** 1996 Feb 26;710(1-2):234-40

Localization and developmental changes of the expression of two inward rectifying K(+)-channel proteins in the rat brain. Miyashita T, et al. **Brain Res** 1997 Mar 7; 750(1-2):251-63

Brain penetration of the histamine H3 receptor antagonists thioperamide and clobenpropit in rat and mouse, determined with ex vivo [125I]iodophenpropit binding. Mochizuki T, et al. **Brain Res** 1996 Dec 16;743(1-2):178-83

The effect of hypoxia and catecholamines on regional expression of heat-shock protein-72 mRNA in neonatal piglet brain. Murphy SJ, et al. **Brain Res** 1996 Jul 15; 727(1-2):145-52

Effect of anoxia on striatal monoamine metabolism in immature rat brain compared with that of hypoxia: an in vivo microdialysis study. Nakajima W, et al. **Brain Res** 1996 Nov 18;740(1-2):316-22

Physical activity increases mRNA for brain-derived neurotrophic factor and nerve growth factor in rat brain. Neeper SA, et al. **Brain Res** 1996 Jul 8;726(1-2):49-56

Serotonergic lesioning differentially affects presynaptic and postsynaptic 5-HT1B receptor mRNA levels in rat brain. Neumaier JF, et al. **Brain Res** 1996 May 25;722(1-2):50-8

Nicardipine and MK-801 attenuate platelet-activating factor increases following cerebral ischemia-reperfusion in gerbils. Nishida K, et al. **Brain Res** 1996 Sep 16; 733(2):203-10

Kindling induces neuropsin mRNA in the mouse brain. Okabe A, et al. **Brain Res** 1996 Jul 22;728(1):116-20

Alterations in phosphoinositide signaling and G-protein levels in depressed suicide brain. Pacheco MA, et al. **Brain Res** 1996 Jun 3;723(1-2):37-45

Apolipoprotein E (apoE) levels in brains from Alzheimer disease patients and controls. Pirttilä T, et al. **Brain Res** 1996 May 25;722(1-2):71-7

Distribution of kainate receptor subunit mRNAs in human hippocampus, neocortex and cerebellum, and bilateral reduction of hippocampal GluR6 and KA2 transcripts in schizophrenia. Porter RH, et al. **Brain Res** 1997 Mar 21; 751(2):217-31

Brain injury after hypoxia-ischemia in newborn rats: relationship to extracellular levels of excitatory amino acids and cysteine. Puka-Sundvall M, et al. **Brain Res** 1997 Mar 7;750(1-2):325-8

Presence of brain-derived neurotrophic factor in brain and human and rat but not mouse serum detected by a sensitive and specific immunoassay. Radka SF, et al. **Brain Res** 1996 Feb 12;709(1):122-301

Effect of chronic treatment with morphine, midazolam and both together on dynorphin(1-13) levels in the rat. Rattan AK, et al. **Brain Res** 1997 Apr 18;754(1-2):239-44

[3H]naloxone binding in the human brain: alcoholism and the TaqI A D2 dopamine receptor polymorphism. Ritchie T, et al. **Brain Res** 1996 Apr 29;718(1-2):193-7

Distribution of bismuth in the brain after intraperitoneal dosing of bismuth subnitrate in mice: implications for routes of entry of xenobiotic metals into the brain. Ross JF, et al. **Brain Res** 1996 Jul 1;725(2):137-54

Expression of endothelin receptors and nitric oxide synthase in the brain of stroke-prone spontaneously hypertensive rats with cerebral apoplexy. Sakurai-Yamashita Y, et al. **Brain Res** 1997 May 9;756(1-2):61-7

Localization of mRNA for Ca2+/calmodulin-dependent protein kinase I in the brain of developing and mature rats. Sawamura Y, et al. **Brain Res** 1996 Jan 15;706(2):259-66

Age-related changes of oxygen free radical production in the rat brain slice after hypoxia: on-line measurement using enhanced chemiluminescence. Schreiber SJ, et al. **Brain Res** 1995 Dec 12;703(1-2):227-30

In vitro metabolism of imipramine by brain microsomes: effects of inhibitors and exogenous cytochrome P450 reductase. Sequeira DJ, et al. **Brain Res** 1996 Oct 28; 738(1):24-31

Comparison of the patterns of altered cerebral glucose utilisation produced by competitive and non-competitive NMDA receptor antagonists. Sharkey J, et al. **Brain Res** 1996 Sep 30;735(1):67-82

Brain nitrite production during global ischemia and reperfusion: an in vivo microdialysis study. Shibata M, et al. **Brain Res** 1996 Sep 23;734(1-2):86-90

Stress persistently increases NMDA receptor-mediated binding of [3H]PDBu (a marker for protein kinase C) in the amygdala, and re-exposure to the stressful context reactivates the increase. Shors TJ, et al. **Brain Res** 1997 Mar 7;750(1-2):293-300

Brain beta-spectrin is a component of senile plaques in Alzheimer's disease. Sihag RK, et al. **Brain Res** 1996 Dec 16;743(1-2):249-57

BDNF increases monoaminergic activity in rat brain following intracerebroventricular or intraparenchymal administration. Siuciak JA, et al. **Brain Res** 1996 Feb 26; 710(1-2):11-20

Immunolocalization of the plasma membrane Ca2+ pump isoforms in the rat brain. Stauffer TP, et al. **Brain Res** 1997 Feb 14;748(1-2):21-9

Adrenoceptor antagonists block c-fos response to stress in the mouse brain. Stone EA, et al. **Brain Res** 1995 Oct 2; 694(1-2):279-86

Expression of presenilin-1 and -2 mRNAs in rat and Alzheimer's disease brains. Takami K, et al. **Brain Res** 1997 Feb 14;748(1-2):122-30

Changes in glutamate receptors, c-fos mRNA expression and activator protein-1 (AP-1) DNA binding activity in the brain of phenobarbital-dependent and -withdrawn rats. Tanaka S, et al. **Brain Res** 1997 May 9;756(1-2):35-45

Ethanol-induced c-Fos expression in rat lines selected for low and high alcohol consumption. Thiele TE, et al. **Brain Res** 1997 May 9;756(1-2):278-82

Single doses of MK-801, a non-competitive antagonist of NMDA receptors, increase the number of 5-HT1A serotonin receptors in the rat brain. Wędzony K, et al. **Brain Res** 1997 May 9;756(1-2):84-91

Rapid Ca2+-dependent NO-production from central nervous system cells in culture measured by NO-nitrite/ozone chemoluminescence. Weikert S, et al. **Brain Res** 1997 Feb 14;748(1-2):1-11

Effect of up-regulation of NMDA receptors on cerebral O2 consumption and blood flow in rat. Weiss HR, et al. **Brain Res** 1996 Aug 19;730(1-2):193-8

Immunocytochemical appearance of cytokines, prostaglandin E2 and lipocortin-1 in the CNS during the incubation period of murine scrapie correlates with progressive PrP accumulations. Williams A, et al. **Brain Res** 1997 Apr 18; 754(1-2):171-80

Diabetes alters mu and kappa opioid binding in rat brain regions: comparison with effects of food restriction. Wolinsky TD, et al. **Brain Res** 1996 Oct 28;738(1):167-71

Subcellular localization of growth inhibitory factor in rat brain: light and electron microscopic immunohistochemical studies. Yamada M, et al. **Brain Res** 1996 Oct 7; 735(2):257-64

Expression of activating transcription factor-2 (ATF-2), one of the cyclic AMP response element (CRE) binding proteins, in Alzheimer disease and non-neurological brain tissues. Yamada T, et al. **Brain Res** 1997 Feb 28; 749(2):329-34

Overexpression of interleukin-1 receptor antagonist in the mouse brain reduces ischemic brain injury. Yang GY, et al. **Brain Res** 1997 Mar 21;751(2):181-8

Characterization of dentatorubral-pallidoluysian atrophy proteins using two-dimensional electrophoretic analysis. Yazawa I, et al. **Brain Res** 1996 Sep 2;732(1-2):154-8

Central antagonism of atrial natriuretic peptides on behavioral and hormonal responses to angiotensin II: mapping with c-fos. Zhu B, et al. **Brain Res** 1996 Sep 23; 734(1-2):55-60

Chronic nicotine treatment delays the developmental increase in brain muscarinic receptors in rat neonate. Zhu J, et al. **Brain Res** 1996 Sep 2;732(1-2):257-60

Cellular signaling roles of TGF beta, TNF alpha and beta APP in brain injury responses and Alzheimer's disease. Mattson MP, et al. **Brain Res Brain Res Rev** 1997 Feb; 23(1-2):47-61 (119 ref.)

Effects of anterolateral and posterolateral cuts around the medial hypothalamus on the immunoreactive ACTH and beta-endorphin levels in selected brain regions of the rat. Barna I, et al. **Brain Res Bull** 1997;42(5):353-7

Central c-fos expression following 20kHz/ultrasound induced defence behaviour in the rat. Beckett SR, et al. **Brain Res Bull** 1997;42(6):421-6

Sexual dimorphism of GABAA receptor levels in subcortical brain regions of a woodland rodent (Apodemus sylvaticus). Canonaco M, et al. **Brain Res Bull** 1996;40(3):187-94

Motor activity and quantitative autoradiographic analysis of muscarinic receptors in the brain of rats subjected to the forced swimming test. Carrizo E, et al. **Brain Res Bull** 1997; 42(2):133-9

Interleukin-1 receptor type I mRNA levels in brain regions from male and female rats. Gayle D, et al. **Brain Res Bull** 1997;42(6):463-7

Characterization of alpha, beta-methylene ATP binding sites in mouse crude synaptic membranes. Hori S, et al. **Brain Res Bull** 1997;43(1):59-63

Effects of nicergoline on age-related decrements in radial maze performance and acetylcholine levels. McArthur RA, et al. **Brain Res Bull** 1997;43(3):305-11

Increased levels of mRNA for beta- but not alpha-subunit of calmodulin kinase II following kindled seizures. Morimoto K, et al. **Brain Res Bull** 1997;43(4):375-80

Time-course alterations of monoamine levels and cerebral blood flow in brain regions after subarachnoid hemorrhage in rats. Saida A, et al. **Brain Res Bull** 1997;43(1):69-80

Acetylcholine: oscillation of levels in mouse brain following electroshock. Stavinoha WB, et al. **Brain Res Bull** 1997; 43(1):47-52

Nerve growth factor, central nervous system apoptosis, and adrenocortical activity in aged Fischer-344/brown Norway F1 hybrid rats. Taglialatela G, et al. **Brain Res Bull** 1997;43(2):229-33

Seizure activity causes elevation of endogenous extracellular kynurenic acid in the rat brain. Wu HQ, et al. **Brain Res Bull** 1996;39(3):155-62

Metabolism of [5-(3)H]kynurenine in the developing rat brain in vivo: effect of intrastriatal ibotenate injections. Ceresoli G, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):73-81

Distribution of FMRFamide-like immunoreactivity in the brain and pituitary of Rana esculenta during development. D'Aniello B, et al. **Brain Res Dev Brain Res** 1996 Sep 2; 95(2):194-204

Acetyl-CoA carboxylase gene expression in the developing mouse brain. Comparison with other genes involved in lipid biosynthesis. Garbay B, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):197-203

Ontogeny of NMDA R1 subunit protein expression in five regions of rat brain. Luo J, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):10-7

Changes in brain glutathione levels during postnatal development in the rat. Nanda D, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):238-41

Development of astrocytes and neurons in cultured brain slices from mice lacking connexin43. Perez Velazquez JL, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):293-6

Increased levels of kynurenic acid in brains of genetically dystonic hamsters. Richter A, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):111-6

Expression of mRNAs coding for the transforming growth factor-beta receptors in brain regions of euthyroid and hypothyroid neonatal rats and in adult brain. Slotkin TA, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):61-5

The alpha 1 subunit of soluble guanylyl cyclase is expressed prenatally in the rat brain. Smigrodzki R, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):226-34

Distribution of muscarinic receptor subtypes in rat brain from postnatal to old age. Tice MA, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):70-6

Isolation of cDNA clones of the rat mRNAs expressed preferentially in the prenatal stages of brain development. Usui H, et al. **Brain Res Dev Brain Res** 1996 Dec 23; 97(2):185-93

A1-adenosine receptor gene expression in fetal rat brain. Weaver DR. **Brain Res Dev Brain Res** 1996 Jul 20; 94(2):205-23

Alpha2B adrenoceptor mRNA expression during rat brain development. Winzer-Serhan UH, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):90-100

The BDNF content of postnatal and adult rat brain: the effects of 6-hydroxydopamine lesions in adult brain. Zhou J, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):297-303

Role of actin in the organisation of brain postsynaptic densities. Adam G, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):246-50

Demonstration of the existence of mRNAs encoding N1/cif and N2/cit sodium/nucleoside cotransporters in rat brain. Anderson CM, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):358-61

Chronic food restriction and streptozotocin-induced diabetes differentially alter prodynorphin mRNA levels in rat brain regions. Berman Y, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):25-30

Type II brain sodium channel expression in non-neuronal cells: embryonic rat osteoblasts. Black JA, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):89-98

Identification in the rat neurotensin receptor of amino-acid residues critical for the binding of neurotensin. Botto JM, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):311-7

Cloning of focal adhesion kinase, pp125FAK, from rat brain reveals multiple transcripts with different patterns of expression. Burgaya F, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):63-73

Naloxone-precipitated withdrawal in morphine-dependent rats increases the expression of alpha 2a-adrenoceptor mRNA in brain. Busquets X, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):154-8

Chronic morphine and naltrexone fail to modify mu-opioid receptor mRNA levels in the rat brain. Castelli MP, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):149-53

Differential expression of the alpha and beta subunits of the large-conductance calcium-activated potassium channel: implication for channel diversity. Chang CP, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):33-40

Interaction of nuclear factors from young and old rat brain regions with regulatory sequences of the D2 dopamine receptor gene promoter. Chernak JM, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):113-24

An anti-chi-1 antibody recognizes a heavily glycosylated protein in rat brain. Ciabarra AM, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):85-90

Trk receptor alterations in Alzheimer's disease. Connor B, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):1-17

Proteolytical processing of mutated human amyloid precursor protein in transgenic mice. Czech C, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):108-16

Olfactory memory and maternal behaviour-induced changes in c-fos and zif/268 mRNA expression in the sheep brain. Da Costa AP, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1-2):63-76

Sodium channel alpha-subunit mRNAs I, II, III, NaG, Na6 and hNE (PN1): different expression patterns in developing rat nervous system. Felts PA, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):71-82

Opioid receptor expression in the rat gastrointestinal tract: a quantitative study with comparison to the brain. Fickel J, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):1-8

Cloning and expression localization of cDNA for rat homolog of TRP protein, a possible store-operated calcium (Ca2+) channel. Funayama M, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):259-66

Localization of mRNAs for Rlim-1, the rat Xlim-1 homolog, in the developing rat brain. Furuyama T, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):152-6

CRH-R1 mRNA expression in two strains of inbred mice and its regulation after repeated restraint stress. Giardino L, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):310-4

Quantitative gene expression of two types of glycine transporter in the rat central nervous system. Goebel DJ. **Brain Res Mol Brain Res** 1996 Aug;40(1):139-42

Sequence of the voltage-gated sodium channel beta1-subunit in wild-type and in quivering mice. Grosson CL, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):222-6

Brain substrates activated by electroacupuncture of different frequencies (I): Comparative study on the expression of oncogene c-fos and genes coding for three opioid peptides. Guo HF, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1-2):157-66

Brain substrates activated by electroacupuncture (EA) of different frequencies (II): Role of Fos/Jun proteins in EA-induced transcription of preproenkephalin and preprodynorphin genes. Guo HF, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):167-73

Transgene expression of plasmid DNAs directed by viral or neural promoters in the rat brain. Hannas-Djebbara Z, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):91-9

Spatially restricted expression of fibroblast growth factor-10 mRNA in the rat brain. Hattori Y, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):139-46

SEZ-6: promoter selectivity, genomic structure and localized expression in the brain. Herbst R, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):309-22

Molecular regulation of the brain interleukin-1 beta system in obese (fa/fa) and lean (Fa/Fa) Zucker rats. Ilyin SE, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):209-18

Widespread brain distribution of mRNA encoding the orphan neurotransmitter transporter v7-3. Inoue K, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):217-23

Increased expression of NLRR-3 mRNA after cortical brain injury in mouse. Ishii N, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):148-52

Localization of mRNA for phosphatidylinositol 3-kinase in brain of developing and mature rats. Ito Y, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):149-53

Quantification of APP and APLP2 mRNA in APOE genotyped Alzheimer's disease brains. Johnston JA, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):85-95

Localization of AT2 angiotensin II receptor gene expression in rat brain by in situ hybridization histochemistry. Jöhren O, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):192-200

Brain specific proteins binding to the 3'UTR of the 5-HT2C receptor mRNA. Kao HT, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):174-84

Induction of brain derived neurotrophic factor mRNA by seizures in neonatal and juvenile rat brain. Kornblum HI, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):219-28

Distribution and polysome association of full-length and 3' truncated preproenkephalin mRNA in the guinea-pig brain. LaForge KS, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1-2):169-76

S103L reactive chondroitin sulfate proteoglycan (aggrecan) mRNA expressed in developing chick brain and cartilage is encoded by a single gene. Li H, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):309-21

Estradiol-17 beta increases serotonin transporter (SERT) mRNA levels and the density of SERT-binding sites in female rat brain. McQueen JK, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):13-23

Cloning, characterization, and chromosomal localization of rec1.3, a member of the G-protein-coupled receptor family highly expressed in brain. Macrae AD, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):245-54

Molecular characterization and localization of human metabotropic glutamate receptor type 4. Makoff A, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):239-48

Molecular characterization and localization of human metabotropic glutamate receptor type 3. Makoff A, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):55-63

Human metabotropic glutamate receptor type 7: molecular cloning and mRNA distribution in the CNS. Makoff A, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):165-70

DRPLA gene (atrophin-1) sequence and mRNA expression in human brain. Margolis RL, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):219-26

ST/b and DBA/2 mice differ in brain alpha-bungarotoxin binding and alpha 7 nicotinic receptor subunit mRNA levels: a quantitative autoradiographic analysis. Marks MJ, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1-2):207-22

Regional differences of the inhibition of GABAB ligand binding by the GTP analogue Gpp(NH)p. Mathivet P, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):18-24

Differential distribution of synapsin IIa and IIb mRNAs in various brain structures and the effect of chronic morphine administration on the regional expression of these isoforms. Matus-Leibovitch N, et al. **Brain Res Mol Brain Res** 1997 May;45(2):301-16

The melatonin receptor in the human brain: cloning experiments and distribution studies. Mazzucchelli C, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1-2):117-26

Extensive splice variation and localization of the EHK-1 receptor tyrosine kinase in adult human brain and glial tumors. Miescher GC, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):17-24

Rapid and transient up-regulation of Na+/myo-inositol cotransporter transcription in the brain of acute hypernatremic rats. Minami Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):64-70

Sequence analysis and immunolocalisation of phosphatidylethanolamine binding protein (PBP) in human brain tissue. Moore C, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):74-8

Cellular and subcellular immunolocalization of the type 3 serotonin receptor in the rat central nervous system. Morales M, et al. **Brain Res Mol Brain Res** 1996 Mar; 36(2):251-60

Distinct localization of two serine-threonine kinase receptors for activin and TGF-beta in the rat brain and down-regulation of type I activin receptor during peripheral nerve regeneration. Morita N, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):263-71

Modulation by 5-hydroxytryptamine of the somatostatin receptor-effector system and somatostatin levels in rat brain. Muñoz-Acedo G, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):259-66

Sense and antisense transcripts of the developmentally regulated murine hsp70.2 gene are expressed in distinct and only partially overlapping areas in the adult brain. Murashov AK, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1-2):85-95

Cloning of a serine proteinase inhibitor from bovine brain: expression in the brain and characterization of its target proteinases. Nakaya N, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):293-300

Expression of three glutamate transporter subtype mRNAs in human brain regions and peripheral tissues. Nakayama T, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):189-92

Heme oxygenase-1 (HO-1) protein induction in rat brain following focal ischemia. Nimura T, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):201-8

Expression of the fibroblast growth factor family and their receptor family genes during mouse brain development. Ozawa K, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1-2):279-88

Placental biogenic amine transporters: cloning and expression. Padbury JF, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):163-8

Gonadotropin-releasing hormone gene expression in teleosts. Parhar IS, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1-2):216-27

Comparative anatomical distribution of serotonin 1A, 1D alpha and 2A receptor mRNAs in human brain postmortem. Pasqualetti M, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1-2):223-33

Isolation, characterization and in vivo analysis of the murine calbindin-D28K upstream regulatory region. Pavlou O, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):268-79

Effect of thyroid hormone deficiency on RC3/neurogranin mRNA expression in the prenatal and adult caprine brain. Piosik PA, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):227-35

Regulation of preprotachykinin-A mRNA in genetic hypertensive and normotensive rats. Pompei P, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):78-86

NGFI-A expression in the rat brain after sleep deprivation. Pompeiano M, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1-2):143-53

Molecular cloning of a new unc-33-like cDNA from rat brain and its relation to paraneoplastic neurological syndromes. Quach TT, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):329-32

Chronic triazolam and its withdrawal alters GABAA receptor subunit mRNA levels: an in situ hybridization study. Ramsey-Williams VA, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):132-40

Cell-specific expression of beta-amyloid precursor protein isoform mRNAs and proteins in neurons and astrocytes. Rohan de Silva HA, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):147-56

Orphan nuclear receptor ROR alpha gene: isoform-specific spatiotemporal expression during postnatal development of brain. Sashihara S, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):109-17

Regional and subunit specific changes in NMDA receptor mRNA and immunoreactivity in mouse brain following chronic ethanol ingestion. Snell LD, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):71-8

Comparison of RPTP zeta/beta, phosphacan, and trkB mRNA expression in the developing and adult rat nervous system and induction of RPTP zeta/beta and phosphacan mRNA following brain injury. Snyder SE, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):79-96

Expression of NMDAR2D glutamate receptor subunit mRNA in neurochemically identified interneurons in the rat neostriatum, neocortex and hippocampus. Standaert DG, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):89-102

Linkage of strain-specific nicotinic receptor alpha 7 subunit restriction fragment length polymorphisms with levels of alpha-bungarotoxin binding in brain. Stitzel JA, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):30-40

Mechanism of expression of the rat HCNP precursor protein gene. Tohdoh N, et al. **Brain Res Mol Brain Res** 1997 Apr; 45(1):24-32

Dexamethasone attenuates NF-kappa B DNA binding activity without inducing I kappa B levels in rat brain in vivo. Unlap MT, et al. **Brain Res Mol Brain Res** 1997 Apr; 45(1):83-9

Localization of gene expression for phosphatidylinositol transfer protein in the brain of developing and mature rats. Utsunomiya A, et al. **Brain Res Mol Brain Res** 1997 May;

45(2):349–52
Localization of mRNA for fatty acid transport protein in developing and mature brain of rats. Utsunomiya A, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):217–22
Regional and cellular expression patterns of four K+ channel mRNAs in the adult rat brain. Verma-Kurvari S, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):54–62
Localization of 5-HT4 receptor mRNA in rat brain by in situ hybridization histochemistry. Vilaró MT, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):356–60
Levels of estrogen receptor immunoreactivity are altered in behaviorally-relevant brain regions in female rats during pregnancy. Wagner CK, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):328–36
Temporal-spatial pattern of c-fos expression in the rat brain in response to indispensable amino acid deficiency. I. The initial recognition phase. Wang Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):27–34
Functional trkB neurotrophin receptors are intrinsic components of the adult brain postsynaptic density. Wu K, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):286–90
Molecular cloning of a human neuroD from a neuroblastoma cell line specifically expressed in the fetal brain and adult cerebellum. Yokoyama M, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):135–9
Cellular expression of the immediate early transcription factors Nurr1 and NGFI-B suggests a gene regulatory role in several brain regions including the nigrostriatal dopamine system. Zetterström RH, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):111–20
Serotonin transporter antibodies: production, characterization, and localization in the brain. Zhou FC, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):267–78
Correlations between ANP concentrations in atria, plasma and cerebral structures and sodium chloride preference in Wistar rats. Glass H, et al. **Braz J Med Biol Res** 1997 Jan; 30(1):65–8
Possible role of protein kinase C in regulation of 5-hydroxytryptamine 2A receptors in rat brain. Rahimian R, et al. **Can J Physiol Pharmacol** 1995 Dec;73(12):1686–91
Up-regulation of flk-1/vascular endothelial growth factor receptor 2 by its ligand in a cerebral slice culture system. Kremer C, et al. **Cancer Res** 1997 Sep 1;57(17):3852–9
Biochemical and functional heterogeneity of rat cerebrum microsomal membranes in relation to SERCA Ca(2+)-ATPases and Ca2+ release channels. Nori A, et al. **Cell Calcium** 1996 May;19(5):375–81
Presence of physiologically stimulated RET in adult rat brain: induction of RET expression during nerve regeneration. Colucci-D'Amato GL, et al. **Cell Growth Differ** 1996 Aug; 7(8):1081–6
Coenzyme Q10 improves mitochondrial respiration in patients with mitochondrial cytopathies. An in vivo study on brain and skeletal muscle by phosphorous magnetic resonance spectroscopy. Barbiroli B, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):741–9
Metabolism of acetate in rat brain neurons, astrocytes and cocultures: metabolic interactions between neurons and glia cells, monitored by NMR spectroscopy. Brand A, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):645–57
Posttranslational modifications of brain and erythrocyte band 3 during aging and disease [published erratum appears in Cell Mol Biol (Noisy-le-grand) 1997 May;43(3):469] Kay MM, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov; 42(7):919–44
At least three neurotransmitter systems mediate a stress-induced increase in c-fos mRNA in different rat brain areas. Bozas E, et al. **Cell Mol Neurobiol** 1997 Apr; 17(2):157–69
Expression of platelet-derived growth factor (PDGF) receptor alpha-subunit in mouse brain: comparison of Patch mutants and normal littermates. Zhang FX, et al. **Cell Mol Neurobiol** 1996 Aug;16(4):479–87
Region-specific DNA synthesis in brains of F344 rats following a six-day bromodeoxyuridine infusion. Bolon B, et al. **Cell Prolif** 1996 Sep;29(9):505–11
Immunolocalization of Bcl-xL/S in the central nervous system of neonatal and adult rats. Alonso G, et al. **Cell Tissue Res** 1997 Apr;288(1):59–68
Prenatal development of the serotonin transporter in mouse brain. Brüning G, et al. **Cell Tissue Res** 1997 Aug; 289(2):211–21
Topography and immunocytochemical characterization of nerve fibers in the leptomeningeal compartments of the rat. A light- and electron-microscopical study. Fricke B, et al. **Cell Tissue Res** 1997 Jan;287(1):11–22
Staining in the brain of Pachymorpha sexguttata mediated by an antibody against a Drosophila clock-gene product: labeling of cells with possible importance for the beetle's circadian rhythms. Frisch B, et al. **Cell Tissue Res** 1996 Dec;286(3):411–29
An immunocytochemical study of encephalic photoreceptors in three species of lamprey. García-Fernández JM, et al. **Cell Tissue Res** 1997 May;288(2):267–78
Expression of microtubule-associated proteins MAP2 and tau in cultured rat brain oligodendrocytes. Müller R, et al. **Cell Tissue Res** 1997 May;288(2):239–49
Cellular bases of brain energy metabolism and their relevance to functional brain imaging: evidence for a prominent role of astrocytes. Magistretti PJ, et al. **Cereb Cortex** 1996 Jan-Feb;6(1):50–61 (136 ref.)
Increase of aldehydic compounds derived from plasmalogens in the brain of aged cattle. Weisser M, et al. **Chem Phys Lipids** 1996 Aug 19;82(2):173–8
Accumulation of manganese in the brain of mice after intravenous injection of manganese-based contrast agents. Gallez B, et al. **Chem Res Toxicol** 1997 Apr;10(4):360–3
Disruption of brain cell ion homeostasis in Alzheimer's disease by oxy radicals, and signaling pathways that protect therefrom. Mattson MP, et al. **Chem Res Toxicol** 1997 May; 10(5):507–17 (85 ref.)
Mechanisms of neurotoxicity associated with amyloid beta deposition and the role of free radicals in the pathogenesis of Alzheimer's disease: a critical appraisal. Sayre LM, et al. **Chem Res Toxicol** 1997 May;10(5):518–26 (141 ref.)
Occurrence of non-ortho, mono-ortho and di-ortho substituted PCB congeners in polecats, stone martens and badgers from the state of Baden-Württemberg, Germany. Behnisch P, et al. **Chemosphere** 1997 Jun;34(11):2293–300
Effects of selective head cooling on brain cell membrane activity during postischemic reperfusion. Duan M, et al. **Chin Med J (Engl)** 1996 Jun;109(6):463–6
Effects of dipfluzine on cortical somatosensory evoked potentials and amino acid contents in ischemic rat brain. Wang YL, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan; 17(1):41–4
Features of P2X receptor-mediated synapses in the rat brain: why doesn't ATP kill the postsynaptic cell? Edwards FA. **Ciba Found Symp** 1996;198:278–86; discussion 286–9 (15 ref.)
Interaction of transthyretin with amyloid beta-protein: binding and inhibition of amyloid formation. Schwarzman AL, et al. **Ciba Found Symp** 1996;199:146–60; discussion 160–4
Role of Ca2+ in metabolic inhibition-induced norepinephrine release in rat brain synaptosomes. Du XJ, et al. **Circ Res** 1997 Feb;80(2):179–88
Haemophilus influenzae and Streptococcus pneumoniae induce different intracerebral mRNA cytokine patterns during the course of experimental bacterial meningitis. Diab A, et al. **Clin Exp Immunol** 1997 Aug;109(2):233–41
Effect of L-Dopa and the catechol-O-methyltransferase inhibitor Ro 41-0960 on sulfur amino acid metabolites in rats. Miller JW, et al. **Clin Neuropharmacol** 1997 Feb; 20(1):55–66
Gene transfer to the mammalian brain using neural stem cells: a focus on trophic factors, neuroregeneration, and cholinergic neuron systems. Martínez-Serrano A, et al. **Clin Neurosci** 1995–96;3(5):301–9 (97 ref.)
A defective herpes simplex virus vector system for gene delivery into the brain: comparison with alternative gene delivery systems and usefulness for gene therapy. Neve RL, et al. **Clin Neurosci** 1995–96;3(5):262–7 (90 ref.)
Brain monoamines in aggression and sleep. Reis DJ. **Clin Neurosurg** 1971;18:471–502
Cerebral oxidative metabolism in hypertension [editorial] Dickinson CJ. **Clin Sci (Colch)** 1996 Nov;91(5):539–50 (113 ref.)
Abundant synthesis of transthyretin in the brain, but not in the liver, of turtles. Richardson SJ, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jul; 117(3):421–9
Production of eicosanoids derived from 20:4n-6 and 20:5n-3 in primary cultures of turbot (Scophthalmus maximus) brain astrocytes in response to platelet activating factor, substance P and interleukin-1 beta. Tocher DR, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):215–22
Post-translational processing of proopiomelanocortin in the pituitary and in the brain. Castro MG, et al. **Crit Rev Neurobiol** 1997;11(1):35–57 (175 ref.)
Epigenetic inheritance in the mouse. Roemer I, et al. **Curr Biol** 1997 Apr 1;7(4):277–80
Near-infrared spectroscopy for the in vivo study of cerebral hemodynamics and oxygenation. du Plessis AJ. **Curr Opin Pediatr** 1995 Dec;7(6):632–9 (37 ref.)
Differential effects of endotoxin and cytokines on prostaglandin E2 formation in cerebral microvessels and brain parenchyma: implications for the pathogenesis of fever. Bishai I, et al. **Cytokine** 1996 May;8(5):371–6
Flow cytometric analysis of glucose transport by rat brain cells. Aller CB, et al. **Cytometry** 1997 Mar 1;27(3):262–8
Regional brain distribution and binding of the muscarinic receptor agonist CI-979 studied by positron emission tomography in the monkey. Hartvig P, et al. **Dement Geriatr Cogn Disord** 1997 Sep-Oct;8(5):259–66
Cerebral metabolic changes in Alzheimer's disease: neurobehavioral patterns. Blesa R, et al. **Dementia** 1996 Sep-Oct;7(5):239–45 (51 ref.)
PET study of the M1-agonists [11C]xanomeline and [11C]butylthio-TZTP in monkey and man. Farde L, et al. **Dementia** 1996 Jul-Aug;7(4):187–95
Neurochemical and pathological alterations following infusion of leupeptin, a protease inhibitor, into the rat brain. Kuki K, et al. **Dementia** 1996 Sep-Oct;7(5):233–8
Alterations in tau protein metabolism during normal aging. Mukaetova-Ladinska EB, et al. **Dementia** 1996 Mar-Apr; 7(2):95–103
Platelet-activating factor acetylhydrolase expression and activity suggest a link between neuronal migration and platelet-activating factor. Albrecht U, et al. **Dev Biol** 1996 Dec 15;180(2):579–93
Expression of a novel N-CAM glycoform (NOC-1) on axon tracts in embryonic Xenopus brain. Anderson RB, et al. **Dev Dyn** 1996 Nov;207(3):263–9
Ascidian tyrosinase gene: its unique structure and expression in the developing brain. Sato S, et al. **Dev Dyn** 1997 Mar; 208(3):363–74
In situ localization of thrombospondin-1 and thrombospondin-3 transcripts in the avian embryo. Tucker RP, et al. **Dev Dyn** 1997 Mar;208(3):326–37
A goldfish Notch-3 homologue is expressed in neurogenic regions of embryonic, adult, and regenerating brain and retina. Sullivan SA, et al. **Dev Genet** 1997;20(3):208–23
Selected papers from the 2nd International Conference on Brain Energy Metabolism: Molecules to Man. Blaubeuren, Germany, August 6–11, 1995. **Dev Neurosci** 1996; 18(5–6):329–554
The expression of ferritin subunits and iron in oligodendrocytes in neonatal porcine brains. Blissman G, et al. **Dev Neurosci** 1996;18(4):274–81
Phosphocreatine and creatine kinase in piglet cerebral gray and white matter in situ. Holtzman D, et al. **Dev Neurosci** 1996;18(5–6):535–41
Elevation of amino acids in the interstitial space of the rat brain following infusion of large neutral amino and keto acids by microdialysis: leucine infusion. Huang Y, et al. **Dev Neurosci** 1996;18(5–6):415–9
Intracerebral trafficking of lactate in vivo during stress, exercise, electroconvulsive shock and ischemia as studied with microdialysis. Korf J. **Dev Neurosci** 1996; 18(5–6):405–14
Introduction: metabolic trafficking comes of age in the decade of the brain. McKenna MC. **Dev Neurosci** 1996; 18(5–6):333–5 (25 ref.)
New insights into the compartmentation of glutamate and glutamine in cultured rat brain astrocytes. McKenna MC, et al. **Dev Neurosci** 1996;18(5–6):380–90
Respective roles of glucose and ketone bodies as substrates for cerebral energy metabolism in the suckling rat. Nehlig A. **Dev Neurosci** 1996;18(5–6):426–33
Expression of the rat brain creatine transporter in situ and in transfected HeLa cells. Saltarelli MD, et al. **Dev Neurosci** 1996;18(5–6):524–34
New aspects of lactate metabolism: IGF-I and insulin regulate mitochondrial function in cultured brain cells during normoxia and hypoxia. Sonnewald U, et al. **Dev Neurosci** 1996;18(5–6):443–8
Elevation of amino acids in the interstitial space of the rat brain following infusion of large neutral amino and keto acids by microdialysis: alpha-ketoisocaproate infusion. Zielke HR, et al. **Dev Neurosci** 1996;18(5–6):420–5
In the absence of counterregulatory hormones, the increase in hepatic glucose production during insulin-induced hypoglycemia in the dog is initiated in the liver rather than the brain. Connolly CC, et al. **Diabetes** 1996 Dec; 45(12):1805–13
Phenotype of the obese Koletsky (f) rat due to Tyr763Stop mutation in the extracellular domain of the leptin receptor (Lepr): evidence for deficient plasma-to-CSF transport of leptin in both the Zucker and Koletsky obese rat. Wu-Peng XS, et al. **Diabetes** 1997 Mar;46(3):513–8
Cerebral energy metabolism, glucose transport and blood flow: changes with maturation and adaptation to hypoglycaemia. Nehlig A. **Diabetes Metab** 1997 Feb; 23(1):18–29 (133 ref.)
Differential cholecystokinin brain/gut transcription initiation in the rat: evidence for brain-specific start sites. Katsel PL, et al. **DNA Cell Biol** 1997 Aug;16(8):1013–21
Prediction of the coding sequences of unidentified human genes. VI. The coding sequences of 80 new genes (KIAA0201-KIAA0280) deduced by analysis of cDNA clones from cell line KG-1 and brain. Nagase T, et al. **DNA Res** 1996 Oct 31;3(5):321–9, 341–54
Prediction of the coding sequences of unidentified human genes. VII. The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro. Nagase T, et al. **DNA Res** 1997 Apr 28;4(2):141–50
Morphine tolerance-induced modulation of [3H]glyburide binding to mouse brain and spinal cord. Welch SP, et al. **Drug Alcohol Depend** 1997 Apr 14;45(1–2):47–53
Disposition of valpromide, valproic acid, and valnoctamide in the brain, liver, plasma, and urine of rats. Blotnik S, et al. **Drug Metab Dispos** 1996 May;24(5):560–4
Metabolites of nicotine in rat brain after peripheral nicotine administration. Cotinine, nornicotine, and norcotinine. Crooks PA, et al. **Drug Metab Dispos** 1997 Jan;25(1):47–54
Distribution of tacrine and metabolites in rat brain and plasma after single- and multiple-dose regimens. Evidence for accumulation of tacrine in brain tissue. McNally WP, et al. **Drug Metab Dispos** 1996 Jun;24(6):628–33
Quantitative brain microdialysis study on the mechanism of quinolones distribution in the central nervous system. Ooie T, et al. **Drug Metab Dispos** 1997 Jul;25(7):784–9
Blood-brain barrier permeability to morphine-6-glucuronide is markedly reduced compared with morphine. Wu D, et al. **Drug Metab Dispos** 1997 Jun;25(6):768–71
Cerebral metabolic rate for glucose after neonatal hypoglycaemia. Kinnala A, et al. **Early Hum Dev** 1997 Jul 24;49(1):63–72
Mapping of the consequences of bilirubin exposure in the immature rat: local cerebral metabolic rates for glucose during moderate and severe hyperbilirubinemia. Roger C, et al. **Early Hum Dev** 1995 Oct 2;43(2):133–44
Temporal relationships between pulsatile cortisol secretion

and electroencephalographic activity during sleep in man. Gronfier C, et al. **Electroencephalogr Clin Neurophysiol** 1997 Sep;103(3):405–8

Cloning, functional expression and brain localization of a novel unconventional outward rectifier K+ channel. Fink M, et al. **EMBO J** 1996 Dec 16;15(24):6854–62

Dimerization of TWIK-1 K+ channel subunits via a disulfide bridge. Lesage F, et al. **EMBO J** 1996 Dec 2;15(23):6400–7

Chemical chaperones interfere with the formation of scrapie prion protein. Tatzelt J, et al. **EMBO J** 1996 Dec 2; 15(23):6363–73

Dynamic alterations in growth hormone receptor mRNA levels in rat brain during stress tolerance. Fujikawa T, et al. **Endocr J** 1996 Oct;43 Suppl:S119–22

Corticosteroid synthesis in the central nervous system. Gomez-Sanchez CE, et al. **Endocr Res** 1996 Nov; 22(4):463–70

Expression and region-specific regulation of the oxytocin receptor gene in rat brain. Breton C, et al. **Endocrinology** 1997 May;138(5):1857–62

Cholecystokinin (CCK) levels are greatly reduced in the brains but not the duodenums of Cpe(fat)/Cpe(fat) mice: a regional difference in the involvement of carboxypeptidase E (Cpe) in pro-CCK processing. Cain BM, et al. **Endocrinology** 1997 Sep;138(9):4034–7

Sexual differentiation of galanin gene expression in gonadotropin-releasing hormone neurons. Finn PD, et al. **Endocrinology** 1996 Nov;137(11):4767–72

Aldosterone biosynthesis in the rat brain. Gomez-Sanchez CE, et al. **Endocrinology** 1997 Aug;138(8):3369–73

Regulation of corticotropin-releasing factor type 1 (CRF1) receptor messenger ribonucleic acid in the paraventricular nucleus of rat hypothalamus by exogenous CRF. Mansi JA, et al. **Endocrinology** 1996 Nov;137(11):4619–29

Expression of corticotropin-releasing factor and its receptors in the brain of lean and obese Zucker rats. Richard D, et al. **Endocrinology** 1996 Nov;137(11):4786–95

Clinical applications of magnetic resonance spectroscopy. Laxer KD. **Epilepsia** 1997;38 Suppl 4:S13–7 (26 ref.)

Temporal changes in proton MRS metabolites after kainic acid-induced seizures in rat brain. Najm IM, et al. **Epilepsia** 1997 Jan;38(1):87–94

Hippocampal atrophy is not a major determinant of regional hypometabolism in temporal lobe epilepsy. O'Brien TJ, et al. **Epilepsia** 1997 Jan;38(1):74–80

Cerebellar hypometabolism in focal epilepsy is related to age of onset and drug intoxication. Seitz RJ, et al. **Epilepsia** 1996 Dec;37(12):1194–9

Quantitation of metabolic compartmentation in hyperammonemic brain by natural abundance 13C-NMR detection of 13C-15N coupling patterns and isotopic shifts. Lapidot A, et al. **Eur J Biochem** 1997 Feb 1;243(3):597–604

Transacylase-mediated and phosphodiesterase-mediated synthesis of N-arachidonoylethanolamine, an endogenous cannabinoid-receptor ligand, in rat brain microsomes. Comparison with synthesis from free arachidonic acid and ethanolamine. Sugiura T, et al. **Eur J Biochem** 1996 Aug 15;240(1):53–62

Piccolo, a novel 420 kDa protein associated with the presynaptic cytomatrix. Cases-Langhoff C, et al. **Eur J Cell Biol** 1996 Mar;69(3):214–23

Analysis of very early jugular bulb oximetry data after severe head injury: implications for the emergency management? De Deyne C, et al. **Eur J Emerg Med** 1996 Jun;3(2):69–72

Systemic and cerebral oxygen extraction after human cardiac arrest. Müllner M, et al. **Eur J Emerg Med** 1996 Mar; 3(1):19–24

Hyponatraemia secondary to cerebral salt wasting syndrome following routine pituitary surgery. Atkin SL, et al. **Eur J Endocrinol** 1996 Aug;135(2):245–7

Effects of selenium and iodine deficiency on thyroid hormone concentrations in the central nervous system of the rat. Campos-Barros A, et al. **Eur J Endocrinol** 1997 Mar; 136(3):316–23

The nitric oxide/cyclic GMP messenger system in olfactory pathways of the locust brain. Bicker G, et al. **Eur J Neurosci** 1996 Dec;8(12):2635–43

Differential temporal evolution of post-training changes in regional brain glucose metabolism induced by repeated spatial discrimination training in mice: visualization of the memory consolidation process? Bontempi B, et al. **Eur J Neurosci** 1996 Nov;8(11):2348–60

Production of monocyte chemotactic protein-1 by rat brain macrophages. Calvo CF, et al. **Eur J Neurosci** 1996 Aug; 8(8):1725–34

5-HT1A receptor agonist flesinoxan enhances Fos immunoreactivity in rat central amygdala, bed nucleus of the stria terminalis and hypothalamus. Compaan JC, et al. **Eur J Neurosci** 1996 Nov;8(11):2340–7

Ontogenetic development of 5-HT1D receptors in human brain: an autoradiographic study. del Olmo E, et al. **Eur J Neurosci** 1996 Jan;8(1):53–60

Acidic calponin cloned from neural cells is differentially expressed during rat brain development. Ferhat L, et al. **Eur J Neurosci** 1996 Jul;8(7):1501–9

A comparative study of alpha2- and beta-adrenoceptor distribution in pigeon and chick brain. Fernández-López A, et al. **Eur J Neurosci** 1997 May;9(5):871–83

Expression of kainate-selective glutamate receptor subunits in glial cells of the adult bovine white matter. García-Barcina JM, et al. **Eur J Neurosci** 1996 Nov; 8(11):2379–87

Hypothyroidism alters the expression of prostaglandin D2 synthase/beta trace in specific areas of the developing rat brain. García-Fernández LF, et al. **Eur J Neurosci** 1997 Aug;9(8):1566–73

Differential expression of syntrophins and analysis of alternatively spliced dystrophin transcripts in the mouse brain. Górecki DC, et al. **Eur J Neurosci** 1997 May; 9(5):965–76

Rat brain: distribution of immunoreactivity of PE-11, a peptide derived from chromogranin B. Kroesen S, et al. **Eur J Neurosci** 1996 Dec;8(12):2679–89

Neuronal nicotinic receptor alpha 6 subunit mRNA is selectively concentrated in catecholaminergic nuclei of the rat brain. Le Novère N, et al. **Eur J Neurosci** 1996 Nov; 8(11):2428–39

Distribution and sites of synthesis of NTT4, an orphan member of the Na+/Cl(-)-dependent neurotransmitter transporter family, in the rat CNS. Luque JM, et al. **Eur J Neurosci** 1996 Jan;8(1):127–37

Positive correlations between cerebral protein synthesis rates and deep sleep in Macaca mulatta. Nakanishi H, et al. **Eur J Neurosci** 1997 Feb;9(2):271–9

Role of thyroid hormone in the morphological differentiation and maturation of astrocytes: temporal correlation with synthesis and organization of actin. Paul S, et al. **Eur J Neurosci** 1996 Nov;8(11):2361–70

Reelin mRNA expression during mouse brain development. Schiffmann SN, et al. **Eur J Neurosci** 1997 May; 9(5):1055–71

Chromogranin mRNA levels in the brain as a marker for acute and chronic changes in neuronal activity: effect of treatments including seizures, osmotic stimulation and axotomy in the rat. Shen PJ, et al. **Eur J Neurosci** 1996 May;8(5):988–1000

Kindled seizure-induced c-fos and prodynorphin mRNA expressions are unrelated in the rat brain. Simonato M, et al. **Eur J Neurosci** 1996 Oct;8(10):2064–7

Differential developmental expression of the two rat brain glutamate transporter proteins GLAST and GLT. Ullensvang K, et al. **Eur J Neurosci** 1997 Aug;9(8):1646–55

Radioiodination of nicotine with specific activity high enough for mapping nicotinic acetylcholine receptors. Kämpfer I, et al. **Eur J Nucl Med** 1996 Feb;23(2):157–62

Fetal heart rate changes and cerebral oxygenation measured by near-infrared spectroscopy during the first stage of labour. Aldrich CJ, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Feb;64(2):189–95

Central benzodiazepine receptor occupancy by zolpidem in the human brain as assessed by positron emission tomography. Abadie P, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):35–44

Preclinical evaluation of [123I]R93274 as a SPECT radiotracer for imaging 5-HT2A receptors. Abi-Dargham A, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):285–93

Binding profile of the novel 5-HT1B/1D receptor antagonist, [3H]GR 125,743, in guinea-pig brain: a comparison with [3H]5-carboxamidotryptamine. Audinot V, et al. **Eur J Pharmacol** 1997 May 30;327(2-3):247–56

Polyclonal anti-idiotypic antibodies to idazoxan and their interaction with human brain imidazoline binding sites. Bennai F, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1-3):211–8

Regional variation in the effects of nicotine on catecholamine overflow in rat brain. Benwell ME, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):13–20

In vitro affinity of piribedil for dopamine D3 receptor subtypes, an autoradiographic study. Cagnotto A, et al. **Eur J Pharmacol** 1996 Oct 10;313(1-2):63–7

Binding of [3H](+)-BW373U86 to delta-opioid receptors in rat brain membranes. Campa MJ, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):263–7

123I-labeled AM251: a radioiodinated ligand which binds in vivo to mouse brain cannabinoid CB1 receptors. Gatley SJ, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):331–8

Adenosine A2 receptor activation facilitates 45Ca2+ uptake by rat brain synaptosomes. Gonçalves ML, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):257–61

Alpha 2-adrenoceptor subtypes in the human brain: a pharmacological delineation of [3H]RX-821002 binding to membranes and tissue sections. Grijalba B, et al. **Eur J Pharmacol** 1996 Aug 22;310(1):83–93

Different effects of chronic administration of haloperidol and pimozide on dopamine metabolism in the rat brain. Karolewicz B, et al. **Eur J Pharmacol** 1996 Oct 17; 313(3):181–6

Stereoselective S-nitrosocysteine recognition sites in rat brain. Lewis SJ, et al. **Eur J Pharmacol** 1996 Sep 26; 312(2):R3–5

Zolpidem binding sites on the GABA(A) receptor in brain from human cirrhotic and non-cirrhotic alcoholics. Lewohl JM, et al. **Eur J Pharmacol** 1997 May 20;326(2-3):265–72

[3H]2-(2-benzofuranyl)-2-imidazoline: a new selective high affinity radioligand for the study of rabbit brain imidazoline I2 receptors. Lione LA, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):221–9

Binding properties of SA4503, a novel and selective sigma 1 receptor agonist. Matsuno K, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):271–9

Melatonin affords protection against kainate-induced in vitro lipid peroxidation in brain. Melchiorri D, et al. **Eur J Pharmacol** 1996 Jun 3;305(1-3):239–42

Comparison of binding parameters of sigma 1 and sigma 2 binding sites in rat and guinea pig brain membranes: novel subtype-selective trishomocubanes. Nguyen VH, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):233–40

Ptilomycalin A, a novel Na+, K(+)- or Ca2(+)-ATPase inhibitor, competitively interacts with ATP at its binding site. Ohizumi Y, et al. **Eur J Pharmacol** 1996 Aug 22; 310(1):95–8

Imidazoli(di)ne compounds interact with the phencyclidine site of NMDA receptors in the rat brain. Olmos G, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):273–6

Effect of metrifonate on extracellular brain acetylcholine and object recognition in aged rats. Scali C, et al. **Eur J Pharmacol** 1997 May 1;325(2-3):173–80

Pentoxifylline decreases brain levels of platelet activating factor in murine AIDS. Sei Y, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):81–4

Neurochemical studies with the novel anticonvulsant levetiracetam in mouse brain. Sills GJ, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):35–40

Autoradiographic study on the pharmacological characteristics of [3H]3-OH-PCP binding sites in rat brain. Suzuki T, et al. **Eur J Pharmacol** 1996 Aug 29; 310(2-3):243–55

Binding of the labelled muscarinic toxin 125I-MT1 to rat brain muscarinic M1 receptors. Waelbroeck M, et al. **Eur J Pharmacol** 1996 Jun 3;305(1-3):187–92

Enzyme-catalyzed production of the neuroprotective NMDA receptor antagonist 7-chlorokynurenic acid in the rat brain in vivo. Wu HQ, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):13–20

Interregional correlation of cerebral glucose metabolism in unmedicated schizophrenia. Biver F, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):141–7

Differential uptake of myo-inositol in vivo into rat brain areas. Patishi Y, et al. **Eur Neuropsychopharmacol** 1996 Mar; 6(1):73–5

Accumulation of long-lasting inactivation in rat brain K(+)-channels. Bertoli A, et al. **Exp Brain Res** 1996 Aug; 110(3):401–12

Relation between delayed impairment of cerebral energy metabolism and infarction following transient focal hypoxia-ischaemia in the developing brain. Blumberg RM, et al. **Exp Brain Res** 1997 Jan;113(1):130–7

Reciprocal changes in expression of mRNA for nerve growth factor and its receptors TrkA and LNGFR in brain of aged rats in relation to maze learning deficits. Hasenöhrl RU, et al. **Exp Brain Res** 1997 Apr;114(2):205–13

Neuropeptide-Y immunoreactivity in the pilocarpine model of temporal lobe epilepsy. Lurton D, et al. **Exp Brain Res** 1997 Aug;116(1):186–90

Cellular and developmental patterns of expression of Ret and glial cell line-derived neurotrophic factor receptor alpha mRNAs. Nosrat CA, et al. **Exp Brain Res** 1997 Jul; 115(3):410–22

A light- and electron-microscopic study of GluR4-positive cells in cerebral cortex, subcortical white matter and corpus callosum of neonatal, immature and adult rats. Ong WY, et al. **Exp Brain Res** 1996 Aug;110(3):367–78

Effect of aging on lipid peroxide levels induced by L-glutamic acid and estimated by means of a thiobarbituric acid test in rat brain tissue. Krištofiková Z, et al. **Exp Gerontol** 1995 Nov-Dec;30(6):645–57

Perinatal asphyxia induces long-term changes in dopamine D1, D2, and D3 receptor binding in the rat brain. Chen Y, et al. **Exp Neurol** 1997 Jul;146(1):74–80

Hydrogels containing peptide or aminosugar sequences implanted into the rat brain: influence on cellular migration and axonal growth. Plant GW, et al. **Exp Neurol** 1997 Feb; 143(2):287–99

Identification of novel variants of trkC mRNA transcripts in brain of African green monkeys. Tam SY, et al. **Exp Neurol** 1997 Jan;143(1):172–6

Presenilin-1 immunoreactivity is localized intracellularly in Alzheimer's disease brain, but not detected in amyloid plaques. Weber LL, et al. **Exp Neurol** 1997 Jan;143(1):37–44

Brain metabolites in mice coinfected with Plasmodium berghei ANKA and LP-BM5 virus: assessment by proton magnetic resonance spectroscopy. Le Moyec L, et al. **Exp Parasitol** 1997 Mar;85(3):296–8

Quantification of efflux into the blood and brain of intraventricularly perfused [3H]thymidine in the anaesthetized rabbit. Thomas SA, et al. **Exp Physiol** 1997 Jan;82(1):139–48

Immobilization stress causes oxidative damage to lipid, protein, and DNA in the brain of rats [see comments] Liu J, et al. **FASEB J** 1996 Nov;10(13):1532–8. Comment in: FASEB J 1997 Apr;11(5):374–5.

Identification and expression of a variant isoform of the levocabastine-sensitive neurotensin receptor in the mouse central nervous system. Botto JM, et al. **FEBS Lett** 1997 Jan 3;400(2):211–4

Cloning, expression and pharmacology of the mouse 5-HT(4L) receptor. Claeysen S, et al. **FEBS Lett** 1996 Nov 25;398(1):19–25

Aging decreases the abundance of retinoic acid (RAR) and triiodothyronine (TR) nuclear receptor mRNA in rat brain: effect of the administration of retinoids. Enderlin V, et al. **FEBS Lett** 1997 Aug 4;412(3):629–32

Phosphorylation-independent inhibition by intracellular cyclic nucleotides of brain inwardly rectifying K+ current expressed in Xenopus oocytes. Ito H, et al. **FEBS Lett** 1997 Jan 27;402(1):12–6

Overlapping distribution of K(ATP) channel-forming Kir6.2 subunit and the sulfonylurea receptor SUR1 in rodent brain. Karschin C, et al. **FEBS Lett** 1997 Jan 13;401(1):59-64

The effect of some peptides from the hibernating brain on Ca2+ current in cardiac cells and on the activity of septal neurons. Kokoz YM, et al. **FEBS Lett** 1997 Jul 7; 411(1):71-6

The structure, function and distribution of the mouse TWIK-1 K+ channel. Lesage F, et al. **FEBS Lett** 1997 Jan 27;402(1):28-32

Clathrin interacts specifically with amphiphysin and is displaced by dynamin. McMahon HT, et al. **FEBS Lett** 1997 Aug 18;413(2):319-22

Tissue-specific alternative splicing of mouse brain type ryanodine receptor/calcium release channel mRNA. Miyatake R, et al. **FEBS Lett** 1996 Oct 21;395(2-3):123-6

Immunohistochemical analysis of presenilin-1 expression in the mouse brain. Moussaoui S, et al. **FEBS Lett** 1996 Apr 1;383(3):219-22

Lithium inhibits Alzheimer's disease-like tau protein phosphorylation in neurons. Muñoz-Montaño JR, et al. **FEBS Lett** 1997 Jul 14;411(2-3):183-8

Monoclonal antibodies that distinguish between free and complexed heterotrimeric G protein beta subunits. Rehm A, et al. **FEBS Lett** 1997 Feb 3;402(2-3):277-85

Modulation of rat brain calpastatin efficiency by post-translational modifications. Salamino F, et al. **FEBS Lett** 1997 Aug 4;412(3):433-8

BIT, an immune antigen receptor-like molecule in the brain. Sano S, et al. **FEBS Lett** 1997 Jul 14;411(2-3):327-34

Human serotonin 5-HT7 receptor: cloning and pharmacological characterisation of two receptor variants. Stam NJ, et al. **FEBS Lett** 1997 Aug 25;413(3):489-94

Blood-brain barrier methionine transport after resuscitation from 10-min cardiac arrest in rats. Kapuściński A, et al. **Folia Neuropathol** 1996;34(2):72-5

Lymphomatous infiltrates within leptomeninges and spinal roots in adult patients with non-Hodgkin's lymphomas after intrathecal methotrexate administration. Nowacki P, et al. **Folia Neuropathol** 1996;34(2):114-8

Proteolysis of ankyrin and Na+/K(+)-ATPase in postmortem rat brain: is calpain involved? Harada K, et al. **Forensic Sci Int** 1997 Apr 18;86(1-2):77-85

Aging and caloric restriction affect mitochondrial respiration and lipid membrane status: an electron paramagnetic resonance investigation. Gabbita SP, et al. **Free Radic Biol Med** 1997;23(2):191-201

Brain lipid peroxidation and hydroxy radical attack following the intravenous infusion of hydrogen peroxide in an infant. Lubec B, et al. **Free Radic Biol Med** 1996;21(2):219-23

Effect of intracellular iron loading on lipid peroxidation of brain slices. Oubidar M, et al. **Free Radic Biol Med** 1996; 21(6):763-9

Hydroxyl radical production in the brain after CO hypoxia in rats. Piantadosi CA, et al. **Free Radic Biol Med** 1995 Mar;18(3):603-9

Peroxidation of brain lipids in vitro: nitric oxide versus hydroxyl radicals. Rauhala P, et al. **Free Radic Biol Med** 1996;21(3):391-4

Psychomotor effects of dopamine infusion under decreased glutathione conditions. Shukitt-Hale B, et al. **Free Radic Biol Med** 1997;23(3):412-8

Accumulation of manganese in rat brain following intranasal administration. Gianutsos G, et al. **Fundam Appl Toxicol** 1997 Jun;37(2):102-5

Proton magnetic resonance spectroscopy of the brain in symptomatic and asymptomatic patients with liver cirrhosis [see comments] Laubenberger J, et al. **Gastroenterology** 1997 May;112(5):1610-6. Comment in: Gastroenterology 1997 May;112(5):1758-61.

Activation of salmon GnRH mRNA expression prior to differentiation of precocious males in Masu salmon. Amano M, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):365-71

Androgen metabolism in the brain of the green anole lizard (Anolis carolinensis). Wade J. **Gen Comp Endocrinol** 1997 Apr;106(1):127-37

Central melatonin receptors in red deer (Cervus elaphus). Williams LM, et al. **Gen Comp Endocrinol** 1996 Oct; 104(1):1-6

Plasma and brain pharmacokinetics of amitriptyline and its demethylated and hydroxylated metabolites after one and six half-life repeated administrations to rats. Coudore F, et al. **Gen Pharmacol** 1996 Mar;27(2):215-9

Effects of repeated doses of azapirones on rat brain 5-HT1A receptors and plasma corticosterone levels. Matheson GK, et al. **Gen Pharmacol** 1996 Mar;27(2):355-61

Partial characterization of binding sites of VA-045, a novel apovincaminic acid derivative, in rat brain membranes. Shirasaki T, et al. **Gen Pharmacol** 1996 Mar;27(2):279-84

Imipramine distribution among red blood cells, plasma and brain tissue. Fišar Z, et al. **Gen Physiol Biophys** 1996 Feb; 15(1):51-64

Gene delivery to the central and peripheral nervous systems of mice using HSV1 ICP34.5 deletion mutant vectors. Coffin RS, et al. **Gene Ther** 1996 Oct;3(10):886-91

Gene transfer by naked DNA into adult mouse brain. Schwartz B, et al. **Gene Ther** 1996 May;3(5):405-11

Uptake of alpha-(L)-iduronidase produced by retrovirally transduced fibroblasts into neuronal and glial cells in vitro. Stewart K, et al. **Gene Ther** 1997 Jan;4(1):63-75

Chromosome mapping of human (ZNF179), mouse, and rat genes for brain finger protein (bfp), a member of the RING finger family. Matsuda Y, et al. **Genomics** 1996 Apr 15; 33(2):325-7

Sequence analysis of 497 mouse brain ESTs expressed in the substantia nigra. Stewart GJ, et al. **Genomics** 1997 Jan 15; 39(2):147-53

Changes in cathepsin B and lipofuscin during development and aging in rat brain and heart. Porta E, et al. **Gerontology** 1995;41 Suppl 2:81-93

Accumulation of aluminium and silicon in lipofuscin granules. Tokutake S, et al. **Gerontology** 1995;41 Suppl 2:131-44

Neuropeptide changes in dementia: pathogenetic implications and diagnostic value. Valenti G. **Gerontology** 1996; 42(5):241-56 (151 ref.)

Potassium homeostasis and glial energy metabolism. Amédée T, et al. **Glia** 1997 Sep;21(1):46-55 (85 ref.)

Expression of the APC tumor suppressor protein in oligodendroglia. Bhat RV, et al. **Glia** 1996 Jun;17(2):169-74

Relationship of iron to oligodendrocytes and myelination. Connor JR, et al. **Glia** 1996 Jun;17(2):83-93 (92 ref.)

Use of fluorocitrate and fluoroacetate in the study of brain metabolism. Fonnum F, et al. **Glia** 1997 Sep;21(1):106-13 (58 ref.)

Metabolic trafficking through astrocytic gap junctions. Giaume C, et al. **Glia** 1997 Sep;21(1):114-23 (89 ref.)

The glial glutamate transporter in hyperammonemia and hepatic encephalopathy: relation to energy metabolism and glutamatergic neurotransmission. Norenberg MD, et al. **Glia** 1997 Sep;21(1):124-33

Regulation of energy metabolism by neurotransmitters in astrocytes in primary culture and in an immortalized cell line. Pellerin L, et al. **Glia** 1997 Sep;21(1):74-83

Ependymocytes and supra-ependymal axons in rat brain contain glutamate. Robinson SR, et al. **Glia** 1996 Aug; 17(4):345-8

Energetic demands of the Na+/K+ ATPase in mammalian astrocytes. Silver IA, et al. **Glia** 1997 Sep;21(1):35-45

Glucose transporter proteins in brain: delivery of glucose to neurons and glia. Vannucci SJ, et al. **Glia** 1997 Sep; 21(1):2-21 (140 ref.)

Immunoreactivity for brain-fatty acid binding protein in gomori-positive astrocytes. Young JK, et al. **Glia** 1996 Mar; 16(3):218-26

Brain metabolism of branched-chain amino acids. Yudkoff M. **Glia** 1997 Sep;21(1):92-8 (54 ref.)

Stage-specific expression of fuco-neolacto- (Lewis X) and ganglio-series neutral glycosphingolipids during brain development: characterization of Lewis X and related glycosphingolipids in bovine, human and rat brain. Dasgupta S, et al. **Glycoconj J** 1996 Jun;13(3):367-75

Glutamine, myo-inositol, and organic brain osmolytes after portocaval anastomosis in the rat: implications for ammonia-induced brain edema. Cordoba J, et al. **Hepatology** 1996 Oct;24(4):919-23

Portacaval anastomosis induces region-selective alterations of the endogenous opioid system in the rat brain. de Waele JP, et al. **Hepatology** 1996 Oct;24(4):895-901

Cerebral abnormalities in patients with cirrhosis detected by proton magnetic resonance spectroscopy and magnetic resonance imaging. Geissler A, et al. **Hepatology** 1997 Jan; 25(1):48-54

Cerebral benzodiazepine receptor binding in vivo in patients with recurrent hepatic encephalopathy. Macdonald GA, et al. **Hepatology** 1997 Aug;26(2):277-82

Selective loss of binding sites for the glutamate receptor ligands [3H]kainate and (S)-[3H]5-fluorowillardiine in the brains of rats with acute liver failure. Michalak A, et al. **Hepatology** 1997 Mar;25(3):631-5

Detyrosination of tubulin is not correlated to cold-adaptation of microtubules in cultured cells from the Atlantic cod (Gadus morhua). Rutberg M, et al. **Histochem J** 1996 Jul; 28(7):511-21

Endogenous dopamine limits the binding of antipsychotic drugs to D3 receptors in the rat brain: a quantitative autoradiographic study. Schotte A, et al. **Histochem J** 1996 Nov;28(11):791-9

Global sex differences in stress-induced activation of cerebral metabolism revealed by 2-deoxyglucose autoradiography. Brown LL, et al. **Horm Behav** 1996 Dec;30(4):611-7

Sex differences in glutamic acid decarboxylase mRNA in neonatal rat brain: implications for sexual differentiation. Davis AM, et al. **Horm Behav** 1996 Dec;30(4):538-52

Intracerebral sex differences in the vasotocin system in birds: possible implication in behavioral and autonomic functions. Jurkevich A, et al. **Horm Behav** 1996 Dec;30(4):673-81

Actions of testosterone in prepubertal and postpubertal male hamsters: dissociation of effects on reproductive behavior and brain androgen receptor immunoreactivity. Meek LR, et al. **Horm Behav** 1997 Feb;31(1):75-88

The long-term sequelae of severe hypoglycemia on the brain in insulin-dependent diabetes mellitus. Perros P, et al. **Horm Metab Res** 1997 May;29(5):197-202 (60 ref.)

Metabolism of n-hexane by rat liver and extrahepatic tissues and the effect of cytochrome P-450 inducers. Crosbie SJ, et al. **Hum Exp Toxicol** 1997 Mar;16(3):131-7

Adam and Eve make love. Analysis of the enantiomers of 3,4-methylenedioxy-N-ethylamphetamine (MDE, "Eve") and its metabolite 3,4-methylenedioxyamphetamine (MDA) in rat brain. Tucker G. **Hum Exp Toxicol** 1996 May;15(5):455-7

A powerful nonviral vector for in vivo gene transfer into the adult mammalian brain: polyethylenimine. Abdallah B, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1947-54

Expression of the ceruloplasmin gene in the human retina and brain: implications for a pathogenic model in aceruloplasminemia. Klomp LW, et al. **Hum Mol Genet** 1996 Dec;5(12):1989-96

The application of positron emission tomography to the study of the normal menstrual cycle. Reiman EM, et al. **Hum Reprod** 1996 Dec;11(12):2799-805

Central overexpression of the TRH precursor gene induces hypertension in rats: antisense reversal. García SI, et al. **Hypertension** 1997 Sep;30(3 Pt 2):759-66

Brain "ouabain" and angiotensin II in salt-sensitive hypertension in spontaneously hypertensive rats. Huang BS, et al. **Hypertension** 1996 Dec;28(6):1005-12

Visualisation of bradykinin B2 receptors on human brain neurons. Raidoo DM, et al. **Immunopharmacology** 1996 Jun; 33(1-3):104-7

Effect of compound 48/80 on mast cells and histamine levels in rat brain and on corticosterone secretion. Bugajski AJ, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S47-8

Ryanodine receptor binding constants in skeletal muscle, heart, brain and liver of the Mexican volcano mouse (Neotomodon alstoni alstoni; Rodentia:Cricetidae). Comparison with five other rodent species. Martínez-Merlos T, et al. **Int J Biochem Cell Biol** 1997 Mar;29(3):529-39

Cloning and expression of a thyroid hormone receptor alpha 1 in the perennibranchiate amphibian Proteus anguinus. Ho Huynh TD, et al. **Int J Dev Biol** 1996 Jun;40(3):537-43

Expression of amyloid precursor protein mRNA isoforms in rat brain is differentially regulated during postnatal maturation and by cholinergic activity. Apelt J, et al. **Int J Dev Neurosci** 1997 Feb;15(1):95-112

Novel 29 kDa heparin-binding lectin from human foetal brain. Basu S, et al. **Int J Dev Neurosci** 1997 Feb; 15(1):113-25

Postnatal changes of brain monoamine levels in prenatally malnourished and control rats. Chen JC, et al. **Int J Dev Neurosci** 1997 Apr;15(2):257-63

Localisation and expression of metallothionein immunoreactivity in the developing sheep brain. Holloway AF, et al. **Int J Dev Neurosci** 1997 Apr;15(2):195-203

Brain hypometabolism of glucose in bulimia nervosa. Delvenne V, et al. **Int J Eat Disord** 1997 May;21(4):313-20

Snake coiled fibres in rat soleus muscle in chloroquine induced myopathy share immunohistochemical characteristics with amyloid depositions in Alzheimer's disease brain tissue. Tsuzuki K, et al. **Int J Exp Pathol** 1997 Feb;78(1):1-8

Brain hyperthermia alters local cerebral glucose utilization: a comparison of hyperthermic agents. Mickley GA, et al. **Int J Hyperthermia** 1997 Jan-Feb;13(1):99-114

Delayed molecular responses to brain irradiation. Chiang CS, et al. **Int J Radiat Biol** 1997 Jul;72(1):45-53

Brain folates and DNA methylation in rats fed a choline deficient diet or treated with low doses of methotrexate. Alonso-Aperte E, et al. **Int J Vitam Nutr Res** 1996; 66(3):232-6

Influence of severe hemodilution on brain function and brain oxidative metabolism in the cat. Bauer R, et al. **Intensive Care Med** 1996 Jan;22(1):47-51

Cerebral metabolic alterations in human immunodeficiency virus-related encephalopathy detected by proton magnetic resonance spectroscopy. Comparison between sequences using short and long echo times. Salvan AM, et al. **Invest Radiol** 1997 Aug;32(8):485-95

Cocaine addiction: hypothesis derived from imaging studies with PET. Volkow ND, et al. **J Addict Dis** 1996; 15(4):55-71 (49 ref.)

Brain hypometabolism of glucose in low-weight depressed patients and in anorectic patients: a consequence of starvation? Delvenne V, et al. **J Affect Disord** 1997 Jun; 44(1):69-77

Dietary induced anorexia: a review of involvement of the histaminergic system. Mercer LP, et al. **J Am Coll Nutr** 1996 Jun;15(3):223-30 (78 ref.)

Identification and quantitation of ibogaine and an o-demethylated metabolite in brain and biological fluids using gas chromatography-mass spectrometry. Hearn WL, et al. **J Anal Toxicol** 1995 Oct;19(6):427-34

Sherpa brain glucose metabolism and defense adaptations against chronic hypoxia. Hochachka PW, et al. **J Appl Physiol** 1996 Sep;81(3):1355-61

Acutely administered melatonin reduces oxidative damage in lung and brain induced by hyperbaric oxygen. Pablos MI, et al. **J Appl Physiol** 1997 Aug;83(2):354-8

Neurochemical mechanisms in soman-induced seizures. Shih TM, et al. **J Appl Toxicol** 1997 Jul-Aug;17(4):255-64

Modulation of central nervous system metabolism by macromolecules: effects of albumin and histones on glucose oxidation by synaptosomes. Tildon JT, et al. **J Assoc Acad Minor Phys** 1996;7(2):47-52

Evaluation of brain tissue O2 supply based on results of PO2 measurements with needle and surface microelectrodes. Grote J, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):168-72

Cerebral noradrenaline spillover and its relation to muscle sympathetic nervous activity in healthy human subjects. Lambert GW, et al. **J Auton Nerv Syst** 1997 May 12; 64(1):57-64

Novel purification and detailed characterization of perlecan isolated from the Engelbreth-Holm-Swarm tumor for use in an animal model of fibrillar A beta amyloid persistence in brain. Castillo GM, et al. **J Biochem (Tokyo)** 1996 Aug;

120(2):433–44

Tissue and subcellular distributions, and characterization of rat brain protein phosphatase 2A containing a 72-kDa delta/B' subunit. Nagase T, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):178–87

Characterization of the 1B promoter of fibroblast growth factor 1 and its expression in the adult and developing mouse brain. Alam KY, et al. **J Biol Chem** 1996 Nov 22; 271(47):30263–71

In situ formation of protease-resistant prion protein in transmissible spongiform encephalopathy-infected brain slices. Bessen RA, et al. **J Biol Chem** 1997 Jun 13; 272(24):15227–31

Early emergence of three dopamine D1 receptor subtypes in vertebrates. Molecular phylogenetic, pharmacological, and functional criteria defining D1A, D1B, and D1C receptors in European eel Anguilla anguilla. Cardinaud B, et al. **J Biol Chem** 1997 Jan 31;272(5):2778–87

cDNA cloning, genomic organization, and in vivo expression of rat N-syndecan. Carey DJ, et al. **J Biol Chem** 1997 Jan 31;272(5):2873–9

The alpha-bungarotoxin-binding nicotinic acetylcholine receptor from rat brain contains only the alpha7 subunit. Chen D, et al. **J Biol Chem** 1997 Sep 19;272(38):24024–9

Transcriptional regulation of neuronal nicotinic acetylcholine receptor genes. A possible role for the DNA-binding protein Puralpha. Du Q, et al. **J Biol Chem** 1997 Jun 6; 272(23):14990–5

Rat brain p64H1, expression of a new member of the p64 chloride channel protein family in endoplasmic reticulum. Duncan RR, et al. **J Biol Chem** 1997 Sep 19; 272(38):23880–6

A new K+ channel beta subunit to specifically enhance Kv2.2 (CDRK) expression. Fink M, et al. **J Biol Chem** 1996 Oct 18;271(42):26341–8

Identification and characterization of a retinoic acid-regulated human homologue of the unc-33-like phosphoprotein gene (hUlip) from neuroblastoma cells. Gaetano C, et al. **J Biol Chem** 1997 May 2; 272(18):12195–201

Developmental regulation of presenilin-1 processing in the brain suggests a role in neuronal differentiation. Hartmann H, et al. **J Biol Chem** 1997 Jun 6;272(23):14505–8

Brain glutamate transporter proteins form homomultimers. Haugeto O, et al. **J Biol Chem** 1996 Nov 1;271(44):27715–22

Phospholipase C beta and membrane action of calcitriol and estradiol. Le Mellay V, et al. **J Biol Chem** 1997 May 2; 272(18):11902–7

Inactivation of a novel neuropeptide Y/peptide YY receptor gene in primate species. Matsumoto M, et al. **J Biol Chem** 1996 Nov 1;271(44):27217–20

Expression of GTP-dependent and GTP-independent tissue-type transglutaminase in cytokine-treated rat brain astrocytes [published erratum appears in J Biol Chem 1997 Mar 14;272(11):7565] Monsonego A, et al. **J Biol Chem** 1997 Feb 7;272(6):3724–32

Carbamoylation of brain glutamate receptors by a disulfiram metabolite. Nagendra SN, et al. **J Biol Chem** 1997 Sep 26; 272(39):24247–51

Activation of protein-tyrosine phosphatase SH-PTP2 by a tyrosine-based activation motif of a novel brain molecule. Ohnishi H, et al. **J Biol Chem** 1996 Oct 11;271(41):25569–74

High mass methyl-accepting protein (HMAP), a highly effective endogenous substrate for protein L-isoaspartyl methyltransferase in mammalian brain. Orpiszewski J, et al. **J Biol Chem** 1996 Sep 20;271(38):22965–8

Alternative splicing of the sodium channel SCN8A predicts a truncated two-domain protein in fetal brain and non-neuronal cells. Plummer NW, et al. **J Biol Chem** 1997 Sep 19;272(38):24008–15

Regulation of human immunodeficiency virus type 1 gene transcription by nuclear receptors in human brain cells. Sawaya BE, et al. **J Biol Chem** 1996 Sep 13; 271(37):22895–900

Isoform-specific, calcium-regulated interaction of the synaptic vesicle proteins SV2 and synaptotagmin. Schivell AE, et al. **J Biol Chem** 1996 Nov 1;271(44):27770–5

Nitric oxide modification of rat brain neurogranin affects its phosphorylation by protein kinase C and affinity for calmodulin. Sheu FS, et al. **J Biol Chem** 1996 Sep 13; 271(37):22407–13

SAPAPs. A family of PSD-95/SAP90-associated proteins localized at postsynaptic density. Takeuchi M, et al. **J Biol Chem** 1997 May 2;272(18):11943–51

Inducible cAMP early repressor can modulate tyrosine hydroxylase gene expression after stimulation of cAMP synthesis. Tinti C, et al. **J Biol Chem** 1996 Oct 11; 271(41):25375–81

Transgenic analyses reveal developmentally regulated neuron- and muscle-specific elements in the murine neurofilament light chain gene promoter. Yaworsky PJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25112–20

Genomic structure and promoter activity of the mouse polysialic acid synthase gene (mST8Sia II). Brain-specific expression from a TATA-less GC-rich sequence. Yoshida Y, et al. **J Biol Chem** 1996 Nov 22;271(47):30167–73

Induction of the intronic enhancer of the human ciliary neurotrophic factor receptor (CNTFRalpha) gene by the TR4 orphan receptor. A member of steroid receptor superfamily. Young WJ, et al. **J Biol Chem** 1997 Jan 31; 272(5):3109–16

Selective activation of effector pathways by brain-specific G protein beta5. Zhang S, et al. **J Biol Chem** 1996 Dec 27;271(52):33575–9

The supply of glucose to the brain and cognitive functioning. Benton D, et al. **J Biosoc Sci** 1996 Oct;28(4):463–79 (85 ref.)

Use of hypothermic circulatory arrest for cerebral protection during aortic surgery. Griepp RB, et al. **J Card Surg** 1997 Mar-Apr;12(2 Suppl):312–21 (9 ref.)

Tissue-specific differences in heat shock protein hsc70 and hsp70 in the control and hyperthermic rabbit. Manzerra P, et al. **J Cell Physiol** 1997 Feb;170(2):130–7

Initial characterization of anosmin-1, a putative extracellular matrix protein synthesized by definite neuronal cell populations in the central nervous system. Soussi-Yanicostas N, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1749–57

N-tropomodulin: a novel isoform of tropomodulin identified as the major binding protein to brain tropomyosin. Watakabe A, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2299–310

XVIII International Symposium on Cerebral Blood Flow and Metabolism. Baltimore, Maryland, 15–19 June 1997. Abstracts. **J Cereb Blood Flow Metab** 1997;17 Suppl 1:S1–806

Radiofluorinated L-m-tyrosines: new in-vivo probes for central dopamine biochemistry. Barrio JR, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):667–78

Simultaneous intracerebral microdialysis and positron emission tomography in the detection of ischemia in patients with subarachnoid hemorrhage. Enblad P, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):637–44

Cerebral [15O] water clearance in humans determined by positron emission tomography: II. Vascular responses to vibrotactile stimulation. Fujita H, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):73–9

Brain tissue response to CO2 in patients with arteriovenous malformation. Hoffman WE, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1383–6

Hypoxic-ischemic injury induces monocyte chemoattractant protein-1 expression in neonatal rat brain. Ivacko J, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):759–70

Equilibrium versus compartmental analysis for assessment of the vesicular monoamine transporter using (+)-alpha-[11C]dihydrotetrabenazine (DTBZ) and positron emission tomography. Koeppe RA, et al. **J Cereb Blood Flow Metab** 1997 Sep;17(9):919–31

In vivo kinetics of [18F](N-methyl)benperidol: a novel PET tracer for assessment of dopaminergic D2-like receptor binding. Moerlein SM, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):833–45

Analysis of [C-11]alpha-methyl-tryptophan kinetics for the estimation of serotonin synthesis rate in vivo. Muzik O, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):659–69

Lactate accumulation during moderate hypoxic hypoxia in neocortical rat brain. Payen JF, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1345–52

Cerebral glucose utilization is reduced in second test session. Stapleton JM, et al. **J Cereb Blood Flow Metab** 1997 Jun; 17(6):704–12

NGFI-B, c-fos, and c-jun mRNA expression in mouse brain after acute carbon monoxide intoxication. Tang YP, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):771–80

Autoradiographic evidence for flow-metabolism uncoupling during stimulation of the nucleus basalis of Meynert in the conscious rat. Vaucher E, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):686–94

Exercise-induced changes in local cerebral glucose utilization in the rat. Vissing J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):729–36

11C-diprenorphine binding in Huntington's disease: a comparison of region of interest analysis with statistical parametric mapping. Weeks RA, et al. **J Cereb Blood Flow Metab** 1997 Sep;17(9):943–9

Expression of growth inhibitory factor mRNA after focal ischemia in rat brain. Yuguchi T, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):745–52

Autoradiographic quantitation and anatomical mapping of GTP sensitive-galanin receptors in the guinea pig central nervous system. Dutriez I, et al. **J Chem Neuroanat** 1996 Dec;12(2):85–104

Expression and glucocorticoid regulation of natriuretic peptide clearance receptor (NPR-C) mRNA in rat brain and choroid plexus. Herman JP, et al. **J Chem Neuroanat** 1996 Oct;11(4):257–65

Autoradiographic localization of receptors for neuropeptide Y (NPY) in the brain of broiler and leghorn chickens (Gallus domesticus). Merckaert J, et al. **J Chem Neuroanat** 1996 Dec;12(2):123–34

Spatio-temporally differential expression of genes for three members of fatty acid binding proteins in developing and mature rat brains. Owada Y, et al. **J Chem Neuroanat** 1996 Dec;12(2):113–22

Effects of unilateral vagotomy on nitric oxide synthase and histamine H3 receptors in the rat dorsal vagal complex. Zhao XL, et al. **J Chem Neuroanat** 1996 Oct;11(4):221–9

Differences in brain metabolites between patients with autism and mental retardation as detected by in vivo localized proton magnetic resonance spectroscopy. Hashimoto T, et al. **J Child Neurol** 1997 Feb;12(2):91–6

Measurement and pharmacokinetic analysis of buspirone by means of brain microdialysis coupled to high-performance liquid chromatography with electrochemical detection. Tsai TH, et al. **J Chromatogr A** 1997 Feb 21; 762(1-2):269–73

Determination of D-fenfluramine, D-norfenfluramine and fluoxetine in plasma, brain tissue and brain microdialysate using high-performance liquid chromatography after precolumn derivatization with dansyl chloride. Clausing P, et al. **J Chromatogr B Biomed Appl** 1997 May 9; 692(2):419–26

On-column gas chromatographic-mass spectrometric assay for metabolic profiling of valproate in brain tissue and serum. Darius J. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):67–72

High-performance liquid chromatographic analysis of (S)-alpha-amino-5-phosphonomethyl[1,1'-biphenyl]-3-propanoic acid (EAB 515) in brain and blood microdialysate (on-line) and in plasma ultrafiltrate of freely moving rats. Malhotra BK, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):167–76

Determination of delta 9-tetrahydrocannabinol levels in brain tissue using high-performance liquid chromatography with electrochemical detection. Nyoni EC, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):79–84

Glutamate measured by 6-s resolution brain microdialysis: capillary electrophoretic and laser-induced fluorescence detection application. Tucci S, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):343–9

Phenolic and tyrosyl ring iodothyronine deiodination and thyroid hormone concentrations in the human central nervous system. Campos-Barros A, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2179–85

Resistance to neuroglycopenia: an adaptive response during intensive insulin treatment of diabetes. Jones TW, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1713–8

Soluble tumor necrosis factor receptor inhibits interleukin 12 production by stimulated human adult microglial cells in vitro. Becher B, et al. **J Clin Invest** 1996 Oct 1; 98(7):1539–43

Extracellular deposition of beta-amyloid upon p53-dependent neuronal cell death in transgenic mice. LaFerla FM, et al. **J Clin Invest** 1996 Oct 1;98(7):1626–32

Neuronal cell death in Alzheimer's disease correlates with apoE uptake and intracellular Abeta stabilization. LaFerla FM, et al. **J Clin Invest** 1997 Jul 15;100(2):310–20

Restricted expression of R-cadherin by brain nuclei and neural circuits of the developing chicken brain. Arndt K, et al. **J Comp Neurol** 1996 Sep 23;373(3):373–99

Comparative ontogenic profile of cholinergic markers, including nicotinic and muscarinic receptors, in the rat brain. Aubert I, et al. **J Comp Neurol** 1996 May 20; 369(1):31–55

Identification of catecholaminergic inputs to and outputs from aromatase-containing brain areas of the Japanese quail by tract tracing combined with tyrosine hydroxylase immunocytochemistry. Balthazart J, et al. **J Comp Neurol** 1997 Jun 9;382(3):401–28

Comparison of the expression of a T alpha 1:nlacZ transgene and T alpha 1 alpha-tubulin mRNA in the mature central nervous system. Bamji SX, et al. **J Comp Neurol** 1996 Oct 7;374(1):52–69

Cellular distribution of neurotensin receptors in rat brain: immunohistochemical study using an antipeptide antibody against the cloned high affinity receptor. Boudin H, et al. **J Comp Neurol** 1996 Sep 9;373(1):76–89

Mab22C11 antibody to amyloid precursor protein recognizes a protein associated with specific astroglial cells of the rat central nervous system characterized by their capacity to support axonal outgrowth. Chauvet N, et al. **J Comp Neurol** 1997 Jan 27;377(4):550–64

Neuroanatomical distribution of androgen and estrogen receptor-immunoreactive cells in the brain of the male roughskin newt. Davis GA, et al. **J Comp Neurol** 1996 Aug 19;372(2):294–308

Distribution of alpha1A adrenergic receptor mRNA in the rat brain visualized by in situ hybridization. Domyancic AV, et al. **J Comp Neurol** 1997 Sep 29;386(3):358–78

Neuronal localization of the cyclophilin A protein in the adult rat brain. Göldner FM, et al. **J Comp Neurol** 1996 Aug 19;372(2):283–93

Localization of natriuretic peptide-activated guanylate cyclase mRNAs in the rat brain. Herman JP, et al. **J Comp Neurol** 1996 May 27;369(2):165–87

Distribution of galanin-like immunoreactive elements in the brain of the adult lamprey Lampetra fluviatilis. Jiménez AJ, et al. **J Comp Neurol** 1996 Apr 29;368(2):185–97

Prenatal ontogeny of the epidermal growth factor receptor and its ligand, transforming growth factor alpha, in the rat brain. Kornblum HI, et al. **J Comp Neurol** 1997 Apr 7;380(2):243–61

Stress-induced activation of nitric oxide-producing neurons in the rat brain. Krukoff TL, et al. **J Comp Neurol** 1997 Jan 27;377(4):509–19

Distribution of angiotensin II type-2 receptor (AT2) mRNA expression in the adult rat brain. Lenkei Z, et al. **J Comp Neurol** 1996 Sep 23;373(3):322–39

Neuroanatomical distribution of vasotocin in a urodele amphibian (Taricha granulosa) revealed by immunohistochemical and in situ hybridization techniques. Lowry CA, et al. **J Comp Neurol** 1997 Aug 18;385(1):43–70

Chondroitin sulfate proteoglycans in the developing central nervous system. II. Immunocytochemical localization of neurocan and phosphacan. Meyer-Puttlitz B, et al. **J Comp Neurol** 1996 Feb 26;366(1):44–54

Topographical distribution of NADPH-diaphorase activity

in the central nervous system of the frog, Rana perezi. Muñoz M, et al. **J Comp Neurol** 1996 Mar 25;367(1):54–69

Distribution of bradykinin B2 receptors in sheep brain and spinal cord visualized by in vitro autoradiography. Murone C, et al. **J Comp Neurol** 1997 May 5;381(2):203–18

Immunocytochemical localization of dopamine and its synthetic enzymes in the central nervous system of the lamprey Lampetra fluviatilis. Pierre J, et al. **J Comp Neurol** 1997 Mar 31;380(1):119–35

Species differences in vasopressin receptor binding are evident early in development: comparative anatomic studies in prairie and montane voles. Wang Z, et al. **J Comp Neurol** 1997 Feb 24;378(4):535–46

Xefiltin, a new low molecular weight neuronal intermediate filament protein of Xenopus laevis, shares sequence features with goldfish gefiltin and mammalian alpha-internexin and differs in expression from XNIF and NF-L. Zhao Y, et al. **J Comp Neurol** 1997 Jan 20;377(3):351–64

Anatomical localization and time course of Fos expression following soman-induced seizures. Zimmer LA, et al. **J Comp Neurol** 1997 Feb 24;378(4):468–81

Manganese metabolism is impaired in the Belgrade laboratory rat. Chua AC, et al. **J Comp Physiol [B]** 1997 Jul; 167(5):361–9

An investigation of multiple time/graphical analysis applied to projection data: theory and validation. Maguire RP, et al. **J Comput Assist Tomogr** 1997 Mar-Apr;21(2):327–31

The apparent diffusion coefficient of water in gray and white matter of the infant brain. Toft PB, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):1006–11

Modeling the route of administration-based enhancement in the brain delivery of EAB 515, studied by microdialysis. Malhotra BK, et al. **J Drug Target** 1997;4(5):277–88

Dehydroepiandrosterone and dehydroepiandrosterone sulfate as neuroactive neurosteroids. Baulieu EE, et al. **J Endocrinol** 1996 Sep;150 Suppl:S221–39 (75 ref.)

Presence of pituitary adenylate cyclase-activating polypeptide 38-immuno-like material in the brain and ovary of the female crested newt, Triturus carnifex: its involvement in the ovarian synthesis of prostaglandins and steroids. Gobbetti A, et al. **J Endocrinol** 1997 Jan; 152(1):141–6

Function of metal-ion homeostasis in the cell division cycle, mitochondrial protein processing, sensitivity to mycobacterial infection and brain function. Supek F, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):321–30 (73 ref.)

The role of glutamate transporters in glutamate homeostasis in the brain. Takahashi M, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):401–9 (51 ref.)

Multiple open channel states revealed by lidocaine and QX-314 on rat brain voltage-dependent sodium channels. Salazar BC, et al. **J Gen Physiol** 1996 Jun;107(6):743–54

Evidence for an alternative direct route of access for the scrapie agent to the brain bypassing the spinal cord. Baldauf E, et al. **J Gen Virol** 1997 May;78 (Pt 5):1187–97

Cell type-specific expression in brain cell cultures from a short human cytomegalovirus major immediate early promoter depends on whether it is inserted into herpesvirus or adenovirus vectors. Shering AF, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):445–59

Transgenic mice overexpressing urokinase-type plasminogen activator in the brain exhibit reduced food consumption, body weight and size, and increased longevity. Miskin R, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):B118–24

The effects of ammonia and portal-systemic shunting on brain metabolism, neurotransmission and intracranial hypertension in hyperammonaemia-induced encephalopathy. Vogels BA, et al. **J Hepatol** 1997 Feb; 26(2):387–95

Expression of RESP18 in peptidergic and catecholaminergic neurons. Darlington DN, et al. **J Histochem Cytochem** 1997 Sep;45(9):1265–77

Immunocytochemical detection of regional protein changes in rat brain sections using computer-assisted image analysis. Huang X, et al. **J Histochem Cytochem** 1996 Sep; 44(9):981–7

Immunohistochemical localization of lipocortin 1 in rat brain is sensitive to pH, freezing, and dehydration. McKanna JA, et al. **J Histochem Cytochem** 1997 Apr;45(4):527–38

Neuronal expression of STM2 mRNA in human brain is reduced in Alzheimer's disease. McMillan PJ, et al. **J Histochem Cytochem** 1996 Nov;44(11):1215–22

Dde-I restriction endonuclease fragmentation: a novel method of generating cDNA probes for in situ hybridization in brain. Melloni RH Jr, et al. **J Histochem Cytochem** 1997 May;45(5):755–63

Cerebral metabolism and its relationship with sympathetic nervous activity in essential hypertension: evaluation of the Dickinson hypothesis. Lambert GW, et al. **J Hypertens** 1996 Aug;14(8):951–9

Expression of chemokine receptors by subsets of neurons in the central nervous system. Horuk R, et al. **J Immunol** 1997 Mar 15;158(6):2882–90

Brain-derived gangliosides regulate the cytokine production and proliferation of activated T cells. Irani DN, et al. **J Immunol** 1996 Nov 15;157(10):4333–40

Lipopolysaccharide-induced IL-12 expression in the central nervous system and cultured astrocytes and microglia. Stalder AK, et al. **J Immunol** 1997 Aug 1;159(3):1344–51

Increased c-fos expression in the brain during experimental murine cerebral malaria: possible association with neurologic complications. Ma N, et al. **J Infect Dis** 1997 Jun;175(6):1480–9

Membrane localization of N-acylphosphatidylethanolamine in central neurons: studies with exogenous phospholipases. Cadas H, et al. **J Lipid Mediat Cell Signal** 1996 Sep; 14(1-3):63–70

Platelet-activating factor: a case for its role in CNS function and brain injury. Feuerstein GZ. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):109–14 (10 ref.)

Relative contribution of the de novo and remodelling pathways to the synthesis of platelet-activating factor in brain areas and during ischemia. Francescangeli E, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):89–98

Lysosphingomyelin-elicited Ca2+ mobilization from rat brain microsomes. Furuya S, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):303–11

Cytosolic phospholipase A2 (cPLA2) and lipid mediator release in the brain. Kramer RM, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):3–7 (14 ref.)

Endogenous cannabinoid ligands--chemical and biological studies. Mechoulam R, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):45–9 (23 ref.)

Platelet-activating factor and somatostatin activate mitogen-activated protein kinase (MAP kinase) and arachidonate release. Shimizu T, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):103–8 (22 ref.)

Poly-phosphoinositide-mediated messengers in focal cerebral ischemia and reperfusion. Sun GY, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):137–45 (19 ref.)

Enzymes for anandamide biosynthesis and metabolism. Ueda N, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):57–61

Incorporation of [U-14C]palmitate into rat brain: effect of an inhibitor of beta-oxidation. Chang MC, et al. **J Lipid Res** 1997 Feb;38(2):295–300

No evidence for direct incorporation of esterified palmitic acid from plasma into brain lipids of awake adult rat. Purdon D, et al. **J Lipid Res** 1997 Mar;38(3):526–30

Brain does not utilize low density lipoprotein-cholesterol during fetal and neonatal development in the sheep. Turley SD, et al. **J Lipid Res** 1996 Sep;37(9):1953–61

Detection of different water populations in brain tissue using 2H single- and double-quantum-filtered diffusion NMR spectroscopy. Assaf Y, et al. **J Magn Reson B** 1996 Aug; 112(2):151–9

Dialysis and transplantation affect cerebral abnormalities of end-stage renal disease. Michaelis T, et al. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):341–7

Mapping the peripheral benzodiazepine receptor binding site by conformationally restrained derivatives of 1-(2-chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinolinecarboxamide (PK11195). Cappelli A, et al. **J Med Chem** 1997 Aug 29;40(18):2910–21

Synthesis and binding affinity of 2-phenylimidazo[1,2-alpha]pyridine derivatives for both central and peripheral benzodiazepine receptors. A new series of high-affinity and selective ligands for the peripheral type. Trapani G, et al. **J Med Chem** 1997 Sep 12;40(19):3109–18

Multiple intracellular effectors modulate physiological functions of the cloned somatostatin receptors. Florio T, et al. **J Mol Endocrinol** 1996 Oct;17(2):89–100 (102 ref.)

The role of nitric oxide in multiple sclerosis [see comments] Parkinson JF, et al. **J Mol Med** 1997 Mar;75(3):174–86 (151 ref.). Comment in: J Mol Med 1997 Mar;75(3):164.

Regional gene expression of the glutamate receptor subtypes GluR1, GluR2, and GluR3 in human postmortem brain. Breese CR, et al. **J Mol Neurosci** 1996 Winter;7(4):277–89

Protease nexin I (PNI) in mouse brain is expressed from the same gene as in seminal vesicle. Citron BA, et al. **J Mol Neurosci** 1996 Fall;7(3):183–91

Regulation of brain interleukin-1 beta (IL-1 beta) system mRNAs in response to pathophysiological concentrations of IL-1 beta in the cerebrospinal fluid. Ilyin SE, et al. **J Mol Neurosci** 1996 Fall;7(3):169–81

The molecular identity of Ca channel alpha 1-subunits expressed in rat sympathetic neurons. Lin Z, et al. **J Mol Neurosci** 1996 Winter;7(4):257–67

CR16, a novel proline-rich protein expressed in rat brain neurons, binds to SH3 domains and is a MAP kinase substrate. Weiler MC, et al. **J Mol Neurosci** 1996 Fall; 7(3):203–15

Uptake and distribution of fluorescein-labeled D2 dopamine receptor antisense oligodeoxynucleotide in mouse brain. Zhang SP, et al. **J Mol Neurosci** 1996 Spring;7(1):13–28

Age-related changes of sodium-dependent D-[3H]aspartate and [3H]FK506 binding in rat brain. Araki T, et al. **J Neural Transm** 1997;104(2-3):259–67

Glial cell line-derived neurotrophic factor (GDNF) gene expression in the human brain: a post mortem in situ hybridization study with special reference to Parkinson's disease. Hunot S, et al. **J Neural Transm** 1996; 103(8-9):1043–52

Regional distribution of specific high affinity binding sites for 3H-imipramine and 3H-paroxetine in human brain. Rosel P, et al. **J Neural Transm** 1997;104(1):89–96

Expression of neuronal acetylcholine nicotinic receptor alpha 4 and beta 2 subunits during postnatal development of the rat brain. Cimino M, et al. **J Neural Transm Gen Sect** 1995; 100(2):77–92

Difference in response of D2 receptor binding between 11C-N-methylspiperone and 11C-raclopride against anesthetics in rhesus monkey brain. Kobayashi K, et al. **J Neural Transm Gen Sect** 1995;100(2):147–51

Altered regulation of brain glucose metabolism as a cause of neurodegenerative disorders? Blum-Degen D, et al. **J Neural Transm Suppl** 1995;46:139–47

Measurement of the dopaminergic degeneration in Parkinson's disease with [123I] beta-CIT and SPECT. Correlation with clinical findings and comparison with multiple system atrophy and progressive supranuclear palsy. Brücke T, et al. **J Neural Transm Suppl** 1997;50:9–24

Models of Alzheimer's disease: cellular and molecular aspects. Hoyer S. **J Neural Transm Suppl** 1997;49:11–21 (85 ref.)

Pathophysiology of movement disorders studied using PET. Leenders KL. **J Neural Transm Suppl** 1997;50:39–46 (12 ref.)

Molecular heterogeneity of neurotransporters: implications for neurodegeneration. Lesch KP, et al. **J Neural Transm Suppl** 1997;49:155–67 (33 ref.)

Vascular dementia: perfusional and metabolic disturbances and effects of therapy. Mielke R, et al. **J Neural Transm Suppl** 1996;47:183–91 (19 ref.)

N-methyl-(R)salsolinol as a dopaminergic neurotoxin: from an animal model to an early marker of Parkinson's disease. Naoi M, et al. **J Neural Transm Suppl** 1997;50:89–105 (49 ref.)

Sites of origin and patterns of migration of vasotocin/mesotocin neurons in developing brain of the chick. Arnold-Aldea SA, et al. **J Neurobiol** 1996 Sep; 31(1):103–16

The Drosophila brain revisited by enhancer detection. Han PL, et al. **J Neurobiol** 1996 Sep;31(1):88–102

Molecular cloning and brain localization of HZF-2 alpha, a new member of the Rev-erb subfamily of orphan nuclear receptors. Peña-de-Ortiz S, et al. **J Neurobiol** 1997 Mar; 32(3):341–58

Brain and spinal cord distribution of biphalin: correlation with opioid receptor density and mechanism of CNS entry. Abbruscato TJ, et al. **J Neurochem** 1997 Sep;69(3):1236–45

Differential regulation by methylenedioxymethamphetamine of 5-hydroxytryptamine1A receptor density and mRNA expression in rat hippocampus, frontal cortex, and brainstem: the role of corticosteroids. Aguirre N, et al. **J Neurochem** 1997 Mar;68(3):1099–105

A generalised increase in protein carbonyls in the brain in Parkinson's but not incidental Lewy body disease. Alam ZI, et al. **J Neurochem** 1997 Sep;69(3):1326–9

Amyloid beta-peptides increase annular and bulk fluidity and induce lipid peroxidation in brain synaptic plasma membranes. Avdulov NA, et al. **J Neurochem** 1997 May; 68(5):2086–91

AP-1 and Egr DNA-binding activities are increased in rat brain during ethanol withdrawal. Beckmann AM, et al. **J Neurochem** 1997 Jul;69(1):306–14

Corticotropin-releasing factor (CRF), CRF-binding protein (CRF-BP), and CRF/CRF-BP complex in Alzheimer's disease and control postmortem human brain. Behan DP, et al. **J Neurochem** 1997 May;68(5):2053–60

Transport of iron in the blood-brain-cerebrospinal fluid system. Bradbury MW. **J Neurochem** 1997 Aug; 69(2):443–54 (121 ref.)

Neurochemical effects following peripheral administration of tetrahydropterin derivatives to the hph-1 mouse. Brand MP, et al. **J Neurochem** 1996 Mar;66(3):1150–6

Novel endogenous protein kinase C substrate proteins, neutrinins, in brain synaptic membranes of maturing rat. Chen XF, et al. **J Neurochem** 1996 May;66(5):2067–73

Effects of single and repeated footshock on dopamine release and metabolism in the brains of Fischer rats. Chrapusta SJ, et al. **J Neurochem** 1997 May;68(5):2024–31

Inhibition of the high-affinity brain glutamate transporter GLAST-1 via direct phosphorylation. Conradt M, et al. **J Neurochem** 1997 Mar;68(3):1244–51

Role of P-glycoprotein in the blood-brain transport of colchicine and vinblastine. Drion N, et al. **J Neurochem** 1996 Oct;67(4):1688–93

Expression of sulfated gangliosides in the central nervous system. Farrer RG, et al. **J Neurochem** 1997 Feb; 68(2):878–81

PTP NE-6: a brain-enriched receptor-type protein tyrosine phosphatase with a divergent catalytic domain. Fitzgerald LR, et al. **J Neurochem** 1997 May;68(5):1820–9

Brain polyamine stress response: recurrence after repetitive stressor and inhibition by lithium. Gilad GM, et al. **J Neurochem** 1996 Nov;67(5):1992–6

Kainic acid and decorticating lesions stimulate the synthesis of C1q protein in adult rat brain. Goldsmith SK, et al. **J Neurochem** 1997 May;68(5):2046–52

Brain tissue acidosis: effects on the extracellular concentration of N-acetylaspartate. Gotoh M, et al. **J Neurochem** 1997 Aug;69(2):655–61

Lipid peroxidation in brain homogenates: the role of iron and hydroxyl radicals [letter] Halliwell B, et al. **J Neurochem** 1997 Sep;69(3):1330–1

Quantification of local de novo synthesis versus blood contributions to quinolinic acid concentrations in brain and systemic tissues. Heyes MP, et al. **J Neurochem** 1997 Jan; 68(1):280–8

Effect of cocaine on the histaminergic neuron system in the rat brain. Ito C, et al. **J Neurochem** 1997 Aug;69(2):875–8

Delivery of human fibroblast growth factor-1 gene to brain by modified rat brain endothelial cells. Johnston P, et al. **J Neurochem** 1996 Oct;67(4):1643–52

Severity of hyperammonemic encephalopathy correlates with brain ammonia level and saturation of glutamine synthetase in vivo. Kanamori K, et al. **J Neurochem** 1996 Oct; 67(4):1584–94

2–Deoxy–2–fluoro–D–glucose as a functional probe for NMR: the unique metabolism beyond its 6–phosphate. Kanazawa Y, et al. **J Neurochem** 1996 May;66(5):2113–20

Demonstration of an E–box and its CNS–related binding factors for transcriptional regulation of the mouse type 1 inositol 1,4,5–trisphosphate receptor gene. Konishi Y, et al. **J Neurochem** 1997 Aug;69(2):476–84

Modulation of GABAA receptor tert–[35S]butylbicyclophosphorothionate binding by antagonists: relationship to patterns of subunit expression. Korpi ER, et al. **J Neurochem** 1996 May;66(5):2179–87

Mitochondrial permeability transition in the central nervous system: induction by calcium cycling–dependent and –independent pathways. Kristal BS, et al. **J Neurochem** 1997 Aug;69(2):524–38

Partitioning of CO2 production between glucose and lactate in excised sympathetic ganglia, with implications for brain. Larrabee MG. **J Neurochem** 1996 Oct;67(4):1726–34

Structural analysis of the proximal region of the microtubule–associated protein 1B promoter. Liu D, et al. **J Neurochem** 1997 Sep;69(3):910–9

The state of phosphorylation of normal adult brain tau, fetal tau, and tau from Alzheimer paired helical filaments at amino acid residue Ser262. Liu WK, et al. **J Neurochem** 1996 Mar;66(3):1131–9

Mechanism of cellular 3–(4,5–dimethylthiazol–2–yl)–2,5–diphenyltetrazolium bromide (MTT) reduction. Liu Y, et al. **J Neurochem** 1997 Aug;69(2):581–93

An assessment of oxidative damage to proteins, lipids, and DNA in brain from patients with Alzheimer's disease. Lyras L, et al. **J Neurochem** 1997 May;68(5):2061–9

Increased density of catalytic sites and expression of brain monoamine oxidase A in humans with hepatic encephalopathy. Mousseau DD, et al. **J Neurochem** 1997 Mar;68(3):1200–8

Comparison of [3H]phosphatidylinositol and [3H]phosphatidylinositol 4,5–bisphosphate hydrolysis in postmortem human brain membranes and characterization of stimulation by dopamine D1 receptors. Pacheco MA, et al. **J Neurochem** 1997 Aug;69(2):639–44

Regulation of actin and its mRNA by thyroid hormones in cultures of fetal human brain during second trimester of gestation. Pal U, et al. **J Neurochem** 1997 Sep;69(3):1170–6

Heat shock induces rapid dephosphorylation of tau in both female and male rats followed by hyperphosphorylation only in female rats: implications for Alzheimer's disease. Papasozomenos SC. **J Neurochem** 1996 Mar;66(3):1140–9

Brain microvascular and astrocyte localization of P–glycoprotein. Pardridge WM, et al. **J Neurochem** 1997 Mar;68(3):1278–85

Ischemia–induced inhibition of calcium uptake into rat brain microsomes mediated by Mg2+/Ca2+ ATPase. Parsons JT, et al. **J Neurochem** 1997 Mar;68(3):1124–34

Metabolic precursors and compartmentation of cerebral GABA in vigabatrin–treated rats. Preece NE, et al. **J Neurochem** 1996 Oct;67(4):1718–25

Lack of a precursor–product relationship between histamine and its metabolites in brain after histidine loading. Prell GD, et al. **J Neurochem** 1996 Nov;67(5):1938–44

Disposition of histamine, its metabolites, and pros–methylimidazoleacetic acid in brain regions of rats chronically infused with alpha–fluoromethylhistidine. Prell GD, et al. **J Neurochem** 1996 May;66(5):2153–9

Inhibitors of histamine methylation in brain promote formation of imidazoleacetic acid, which interacts with GABA receptors. Prell GD, et al. **J Neurochem** 1997 Jan; 68(1):142–51

Changes in cerebral acyl–CoA concentrations following ischemia–reperfusion in awake gerbils. Rabin O, et al. **J Neurochem** 1997 May;68(5):2111–8

Reduced [3H]cyclic AMP binding in postmortem brain from subjects with bipolar affective disorder. Rahman S, et al. **J Neurochem** 1997 Jan;68(1):297–304

Portacaval shunting and hyperammonemia stimulate the uptake of L–[3H] arginine but not of L–[3H]nitroarginine into rat brain synaptosomes. Rao VL, et al. **J Neurochem** 1997 Jan;68(1):337–43

Structure of the C–terminal tail of alpha–tubulin: increase of heterogeneity from newborn to adult. Redeker V, et al. **J Neurochem** 1996 Nov;67(5):2104–14

Study of the interaction of the myelin monomeric GTP–binding proteins with other brain proteins. Rodriguez–Gabin AG, et al. **J Neurochem** 1997 Mar; 68(3):1011–20

Dose–response relationship for nicotine–induced up–regulation of rat brain nicotinic receptors. Rowell PP, et al. **J Neurochem** 1997 May;68(5):1982–9

Identification of two molecular species of rat brain phosphatidylcholine that rapidly incorporate and turn over arachidonic acid in vivo. Shetty HU, et al. **J Neurochem** 1996 Oct;67(4):1702–10

Osmotic swelling stimulates ascorbate efflux from cerebral astrocytes. Siushansian R, et al. **J Neurochem** 1996 Mar; 66(3):1227–33

Transient ischemia differentially increases tyrosine phosphorylation of NMDA receptor subunits 2A and 2B. Takagi N, et al. **J Neurochem** 1997 Sep;69(3):1060–5

Identification of a system N–like Na(+)–dependent glutamine transport activity in rat brain neurons. Tamarappoo BK, et al. **J Neurochem** 1997 Mar;68(3):954–60

Species– and brain region–specific dopamine transporters: immunological and glycosylation characteristics. Vaughan RA, et al. **J Neurochem** 1996 May;66(5):2146–52

Cyclic AMP–mediated enhancement of high–affinity choline transport and acetylcholine synthesis in brain. Vogelsberg V, et al. **J Neurochem** 1997 Mar;68(3):1062–70

A novel gelsolin isoform expressed by oligodendrocytes in the central nervous system. Vouyiouklis DA, et al. **J Neurochem** 1997 Sep;69(3):995–1005

Solubilization of high–affinity, guanine nucleotide–sensitive mu–opioid receptors from rat brain membranes. Weems HB, et al. **J Neurochem** 1996 Mar;66(3):1042–50

Developmental and regional expression of NMDA receptor subtypes containing the NR2D subunit in rat brain. Wenzel A, et al. **J Neurochem** 1996 Mar;66(3):1240–8

Effects of chronic ethanol consumption and aging on dopamine, serotonin, and metabolites. Woods JM, et al. **J Neurochem** 1996 May;66(5):2168–78

5–hydroxy–3–ethylamino–2–oxindole is not formed in rat brain following a neurotoxic dose of methamphetamine: evidence that methamphetamine does not induce the hydroxyl radical–mediated oxidation of serotonin. Yang Z, et al. **J Neurochem** 1997 May;68(5):1929–41

Distribution of three nicotinic receptor alpha 4 mRNA transcripts in rat brain: selective regulation by nicotine administration. Yu ZJ, et al. **J Neurochem** 1996 Mar; 66(3):1326–9

Functional consequences of changes in NMDA receptor subunit expression during development. Feldmeyer D, et al. **J Neurocytol** 1996 Dec;25(12):857–67 (80 ref.)

Coexpression of connexin45 and –32 in oligodendrocytes of rat brain. Kunzelmann P, et al. **J Neurocytol** 1997 Jan; 26(1):17–22

Differential expression of NGFI–B and RNR–1 genes in various tissues and developing brain of the rat: comparative study by quantitative reverse transcription–polymerase chain reaction. Bandoh S, et al. **J Neuroendocrinol** 1997 Jan;9(1):3–8

Long–term selective down–regulation of brain glucocorticoid receptors after neonatal dexamethasone treatment in rats. Felszeghy K, et al. **J Neuroendocrinol** 1996 Jul;8(7):493–9

Identification and characterization of angiotensinIV binding sites in rat neurone and astrocyte cell cultures. Greenland K, et al. **J Neuroendocrinol** 1996 Sep;8(9):687–93

Brain metabolism of progesterone, coping behaviour and emotional reactivity in male rats from two psychogenetically selected lines. Steimer T, et al. **J Neuroendocrinol** 1997 Mar;9(3):169–75

Melatonin receptors in the brain and pituitary gland of hypothalamo–pituitary disconnected Soay rams. Williams LM, et al. **J Neuroendocrinol** 1997 Aug;9(8):639–43

Localization of [125I]IGF–I binding on the ovine pars tuberalis. Williams LM, et al. **J Neuroendocrinol** 1995 Dec; 7(12):931–8

Interleukin–1 receptors type I and type II in the mouse brain: kinetics of mRNA expressions after peripheral administration of bacterial lipopolysaccharide. Gabellec MM, et al. **J Neuroimmunol** 1996 May;66(1–2):65–70

Differential and time–dependent expression of monocyte chemoattractant protein–1 mRNA by astrocytes and macrophages in rat brain: effects of ischemia and peripheral lipopolysaccharide administration. Gourmala NG, et al. **J Neuroimmunol** 1997 Apr;74(1–2):35–44

IL–6 and TNFalpha expression in brains of twitcher, quaking and normal mice. LeVine SM, et al. **J Neuroimmunol** 1997 Mar;73(1–2):47–56

Characterization of the cellular and cytokine response in the central nervous system following Semliki Forest virus infection. Morris MM, et al. **J Neuroimmunol** 1997 Apr; 74(1–2):185–97

Central nervous system cytokine mRNA expression following Theiler's murine encephalomyelitis virus infection. Sato S, et al. **J Neuroimmunol** 1997 Jun; 76(1–2):213–23

Cytokine production in the brain following closed head injury: dexanabinol (HU–211) is a novel TNF–alpha inhibitor and an effective neuroprotectant. Shohami E, et al. **J Neuroimmunol** 1997 Feb;72(2):169–77 (60 ref.)

Diurnal variations of interleukin–1 beta mRNA and beta–actin mRNA in rat brain. Taishi P, et al. **J Neuroimmunol** 1997 May;75(1–2):69–74

Cellular localization of tumor necrosis factor mRNA in neurological tissue from HIV–infected patients by combined reverse transcriptase/polymerase chain reaction in situ hybridization and immunohistochemistry. Wesselingh SL, et al. **J Neuroimmunol** 1997 Apr; 74(1–2):1–8

Brain and skeletal muscle bioenergetic failure in familial hypobetalipoproteinaemia. Lodi R, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):574–80 (61 ref.)

Glycogen accumulated in the brain following insults is not degraded during a subsequent period of ischemia. Folbergrova J, et al. **J Neurol Sci** 1996 Apr;137(1):7–13

Dopaminergic responses to striatal damage. Howells DW, et al. **J Neurol Sci** 1996 Jul;139(1):125–30

Cerebral oxygen and glucose metabolism in glycogen storage disease with normal acid maltase: case report. Katsumi Y, et al. **J Neurol Sci** 1996 Sep 1;140(1–2):46–52

Identification of brain metabolites by magnetic resonance spectroscopy in MND/ALS. Knight JM, et al. **J Neurol Sci** 1996 Aug;139 Suppl:104–9

Brain 6–[18F]fluorodopa metabolism in early and late onset of Parkinson's disease studied by positron emission tomography. Nagasawa H, et al. **J Neurol Sci** 1996 Dec; 144(1–2):70–6

Altered energy metabolism in Alzheimer's disease. Ogawa M, et al. **J Neurol Sci** 1996 Jul;139(1):78–82

Glucose metabolism in the cortical and subcortical brain structures in multiple system atrophy and Parkinson's disease: a positron emission tomographic study. Otsuka M, et al. **J Neurol Sci** 1996 Dec;144(1–2):77–83

Cerebral oxygen transport and metabolism during graded isovolemic hemodilution in experimental global ischemia. Tu YK, et al. **J Neurol Sci** 1997 Sep 10;150(2):115–22

Predicted and actual BCNU concentrations in normal rabbit brain during intraarterial and intravenous infusions. Hassenbusch SJ, et al. **J Neurooncol** 1996 Oct;30(1):7–18

The role of boron MRI in boron neutron capture therapy. Kabalka GW, et al. **J Neurooncol** 1997 May;33(1–2):153–61

Steroids decrease uptake of carboplatin in rat gliomas—uptake improved by intracarotid infusion of bradykinin analog, RMP–7. Matsukado K, et al. **J Neurooncol** 1997 Sep;34(2):131–8

Chronic seizures increase glucose transporter abundance in rat brain. Gronlund KM, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):832–40

Neuronal expression and intracellular localization of presenilins in normal and Alzheimer disease brains. Huynh DP, et al. **J Neuropathol Exp Neurol** 1997 Sep; 56(9):1009–17

The loss of GluR2(3) immunoreactivity precedes neurofibrillary tangle formation in the entorhinal cortex and hippocampus of Alzheimer brains. Ikonomovic MD, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):1018–27

Characterization of the precursor protein of the non–A beta component of senile plaques (NACP) in the human central nervous system. Irizarry MC, et al. **J Neuropathol Exp Neurol** 1996 Aug;55(8):889–95

Effect of photic stimulation on energy metabolism in the human brain measured by 31P–MR spectroscopy. Kato T, et al. **J Neuropsychiatry Clin Neurosci** 1996 Fall;8(4):417–22

In vivo localized NMR proton spectroscopy of normal appearing white matter in patients with multiple sclerosis. Tourbah A, et al. **J Neuroradiol** 1996 Sep;23(2):49–55

Chronic social stress alters levels of corticotropin–releasing factor and arginine vasopressin mRNA in rat brain. Albeck DS, et al. **J Neurosci** 1997 Jun 15;17(12):4895–903

Dopaminergic regulation of progesterone receptors: brain D5 dopamine receptors mediate induction of lordosis by D1–like agonists in rats. Apostolakis EM, et al. **J Neurosci** 1996 Aug 15;16(16):4823–34

STEP61: a member of a family of brain–enriched PTPs is localized to the endoplasmic reticulum. Bult A, et al. **J Neurosci** 1996 Dec 15;16(24):7821–31

Occurrence and biosynthesis of endogenous cannabinoid precursor, N–arachidonoyl phosphatidylethanolamine, in rat brain. Cadas H, et al. **J Neurosci** 1997 Feb 15; 17(4):1226–42

Identification and functional characterization of a K+ channel alpha–subunit with regulatory properties specific to brain. Castellano A, et al. **J Neurosci** 1997 Jun 15; 17(12):4652–61

Maternal cocaine treatment alters dynorphin and enkephalin mRNA expression in brains of fetal rhesus macaques. Chai L, et al. **J Neurosci** 1997 Feb 1;17(3):1112–21

Chronic Fos–related antigens: stable variants of deltaFosB induced in brain by chronic treatments. Chen J, et al. **J Neurosci** 1997 Jul 1;17(13):4933–41

A post–transcriptional regulatory mechanism restricts expression of the paraneoplastic cerebellar degeneration antigen cdr2 to immune privileged tissues. Corradi JP, et al. **J Neurosci** 1997 Feb 15;17(4):1406–15

Sensitivity to jerky gene dosage underlies epileptic seizures in mice. Donovan GP, et al. **J Neurosci** 1997 Jun 15; 17(12):4562–9

Regulators of G–protein signaling (RGS) proteins: region–specific expression of nine subtypes in rat brain. Gold SJ, et al. **J Neurosci** 1997 Oct 15;17(20):8024–37

Selective expression of insulin–like growth factor II in the songbird brain. Holzenberger M, et al. **J Neurosci** 1997 Sep 15;17(18):6974–87

Effects of m–chlorophenylpiperazine on regional brain glucose utilization: a positron emission tomographic comparison of alcoholic and control subjects. Hommer D, et al. **J Neurosci** 1997 Apr 15;17(8):2796–806

Light and electron microscopic localization of presenilin–1 in primate brain. Lah JJ, et al. **J Neurosci** 1997 Mar 15; 17(6):1971–80

Differential and time–dependent changes in gene expression for type II calcium/calmodulin–dependent protein kinase, 67 kDa glutamic acid decarboxylase, and glutamate receptor subunits in tetanus toxin–induced focal epilepsy. Liang F, et al. **J Neurosci** 1997 Mar 15;17(6):2168–80

Regional expression and cellular localization of the alpha1 and beta subunit of high voltage–activated calcium channels in rat brain. Ludwig A, et al. **J Neurosci** 1997 Feb 15;17(4):1339–49

Structure, functional expression, and cerebral localization of the levocabastine–sensitive neurotensin/neuromedin N

receptor from mouse brain. Mazella J, et al. **J Neurosci** 1996 Sep 15;16(18):5613–20

Characterization of guanylate kinase–associated protein, a postsynaptic density protein at excitatory synapses that interacts directly with postsynaptic density–95/synapse–associated protein 90. Naisbitt S, et al. **J Neurosci** 1997 Aug 1;17(15):5687–96

Specialized membrane domains for water transport in glial cells: high–resolution immunogold cytochemistry of aquaporin–4 in rat brain. Nielsen S, et al. **J Neurosci** 1997 Jan 1;17(1):171–80

Second messengers, trafficking–related proteins, and amino acid residues that contribute to the functional regulation of the rat brain GABA transporter GAT1. Quick MW, et al. **J Neurosci** 1997 May 1;17(9):2967–79

Voltage–gated K+ channel beta subunits: expression and distribution of Kv beta 1 and Kv beta 2 in adult rat brain. Rhodes KJ, et al. **J Neurosci** 1996 Aug 15;16(16):4846–60

Adrenergic receptors in Alzheimer's disease brain: selective increases in the cerebella of aggressive patients. Russo–Neustadt A, et al. **J Neurosci** 1997 Jul 15; 17(14):5573–80

Effects of chronic treatment with delta9–tetrahydrocannabinol on cannabinoid–stimulated [35S]GTPgammaS autoradiography in rat brain. Sim LJ, et al. **J Neurosci** 1996 Dec 15;16(24):8057–66

Adaptive increase in D3 dopamine receptors in the brain reward circuits of human cocaine fatalities. Staley JK, et al. **J Neurosci** 1996 Oct 1;16(19):6100–6

Effects of binge pattern cocaine administration on dopamine D1 and D2 receptors in the rat brain: an in vivo study using positron emission tomography. Tsukada H, et al. **J Neurosci** 1996 Dec 1;16(23):7670–7

Appican expression induces morphological changes in C6 glioma cells and promotes adhesion of neural cells to the extracellular matrix. Wu A, et al. **J Neurosci** 1997 Jul 1; 17(13):4987–93

The brain chondroitin sulfate proteoglycan brevican associates with astrocytes ensheathing cerebellar glomeruli and inhibits neurite outgrowth from granule neurons. Yamada H, et al. **J Neurosci** 1997 Oct 15;17(20):7784–95

Postembedding immunocytochemistry of large sections of brain tissue: an improved flat–embedding technique. Larue DT, et al. **J Neurosci Methods** 1996 Jan;64(1):69–74

Advances in the immunocytochemical localization of neuroactive substances in the insect nervous system. Nässel DR. **J Neurosci Methods** 1996 Oct 21;69(1):3–23 (102 ref.)

Adenovirus–mediated gene transfer to the brain: methodological assessment. Peltékian E, et al. **J Neurosci Methods** 1997 Jan;71(1):77–84 (37 ref.)

Evaluation of a novel nimodipine delivery system in conscious rats that allows sustained release for 24 h. Perez–Trepichio AD, et al. **J Neurosci Methods** 1996 Oct; 68(2):297–301

Effects of clamp rise–time on rat brain IIA sodium channels in Xenopus oocytes. Ruben PC, et al. **J Neurosci Methods** 1997 May 16;73(2):113–22

Nitric oxide detection with intracerebral microdialysis: important considerations in the application of the hemoglobin–trapping technique. Zhang Y, et al. **J Neurosci Methods** 1996 Oct;68(2):165–73

Met5–enkephalin–Arg6–Phe7, an endogenous neuropeptide, binds to multiple opioid and nonopioid sites in rat brain. Benyhe S, et al. **J Neurosci Res** 1997 May 1;48(3):249–58

CaM I mRNA is localized to apical dendrites during postnatal development of neurons in the rat brain. Berry FB, et al. **J Neurosci Res** 1996 Mar 1;43(5):565–75

In vivo activation of neural heat shock transcription factor HSF1 by a physiologically relevant increase in body temperature. Brown IR, et al. **J Neurosci Res** 1996 Apr 1;44(1):52–7

Role of P–170 glycoprotein in colchicine brain uptake. Drion N, et al. **J Neurosci Res** 1997 Jul 1;49(1):80–8

Single intracranial injection of apotransferrin in young rats increases the expression of specific myelin protein mRNA. Escobar Cabrera OE, et al. **J Neurosci Res** 1997 Mar 15; 47(6):603–8

Restricted occurrence of an unusual ganglioside GD1 alpha in rat brain and its possible involvement in dendritic growth of cerebellar Purkinje neurons. Furuya S, et al. **J Neurosci Res** 1996 Apr 1;44(1):73–83

Calpains and calpastatin in SH–SY5Y neuroblastoma cells during retinoic acid–induced differentiation and neurite outgrowth: comparison with the human brain calpain system. Grynspan F, et al. **J Neurosci Res** 1997 May 1; 48(3):181–91

Alzheimer's beta–amyloid precursor protein is expressed on the surface of immediately ex vivo brain cells: a flow cytometric study. Jung SS, et al. **J Neurosci Res** 1996 Nov 1;46(3):336–48

Specific proteolytic cleavage of the myristoylated alanine–rich C kinase substrate between Asn 147 and Glu 148 also occurs in brain. Manenti S, et al. **J Neurosci Res** 1997 May 1;48(3):259–63

Spatio–temporal pattern of N–methyl–D–aspartate receptor NR1 mRNA expression during postnatal development of visual structures of the rat brain. Nowicka D, et al. **J Neurosci Res** 1996 Jun 1;44(5):471–7

Identification and topography of neuronal cell populations expressing TNF alpha and IL–1 alpha in response to hippocampal lesion. Tchélingérian JL, et al. **J Neurosci Res** 1996 Jan 1;43(1):99–106

Effect of the novel high–affinity glycine–site N–methyl–D–aspartate antagonist ACEA–1021 on 125I–MK–801 binding after subdural hematoma in the rat: an in vivo autoradiographic study. Di X, et al. **J Neurosurg** 1996 Oct;85(4):655–61

Delayed cytokine expression in rat brain following experimental contusion. Holmin S, et al. **J Neurosurg** 1997 Mar;86(3):493–504

Chronic interstitial infusion of protein to primate brain: determination of drug distribution and clearance with single–photon emission computerized tomography imaging. Laske DW, et al. **J Neurosurg** 1997 Oct;87(4):586–94

Focal hyperexpression of hemeoxygenase–1 protein and messenger RNA in rat brain caused by cellular stress following subarachnoid injections of lysed blood. Matz PG, et al. **J Neurosurg** 1996 Nov;85(5):892–900

Movable oil in the brain: intracranial ruptured dermoid tumors. Case illustration. Yoshimoto K, et al. **J Neurosurg** 1997 Apr;86(4):734

Expression of basic fibroblast growth factor mRNA after transient focal ischemia: comparison with expression of c–fos, c–jun, and hsp 70 mRNA. Iwata A, et al. **J Neurotrauma** 1997 Apr;14(4):201–10

Rescue of HSV–1 neurovirulence is associated with induction of brain interleukin–1 expression, prostaglandin synthesis and neuroendocrine responses [see comments] Ben–Hur T, et al. **J Neurovirol** 1996 Aug;2(4):279–88. Comment in: J Neurovirol 1996 Aug;2(4):225–9.

Alternative delivery systems for antiviral nucleosides and antisense oligonucleotides to the brain. Levy RM, et al. **J Neurovirol** 1997 May;3 Suppl 1:S74–5

Metabolic consequences of acute brain trauma: is there a role for PET? [editorial; comment] Alavi A, et al. **J Nucl Med** 1996 Jul;37(7):1170–2. Comment on: J Nucl Med 1996 Jul;37(7):1166–70.

Evaluation of fluorinated m–tyrosine analogs as PET imaging agents of dopamine nerve terminals: comparison with 6–fluoroDOPA. DeJesus OT, et al. **J Nucl Med** 1997 Apr; 38(4):630–6

Heterogeneity of cerebral hemodynamics and metabolism in carotid artery disease. Duncan DB, et al. **J Nucl Med** 1996 Mar;37(3):429–32

Age–related diminution of dopamine antagonist–stimulated vesamicol receptor binding. Efange SM, et al. **J Nucl Med** 1996 Jul;37(7):1192–7

Carbon–11–labeled KF15372: a potential central nervous system adenosine A1 receptor ligand. Furuta R, et al. **J Nucl Med** 1996 Jul;37(7):1203–7

Regional cerebral blood flow and glucose utilization in spontaneously epileptic EL mice. Hosokawa C, et al. **J Nucl Med** 1997 Apr;38(4):613–6

Cellular basis of ECD brain retention. Jacquier–Sarlin MR, et al. **J Nucl Med** 1996 Oct;37(10):1694–7

Abnormal cerebral glucose metabolism in HIV–1 seropositive subjects with and without dementia. Rottenberg DA, et al. **J Nucl Med** 1996 Jul;37(7):1133–41

Assessment of antioxidative ability in brain: technetium–99m–meso–HMPAO as an imaging agent for glutathione localization. Sasaki T, et al. **J Nucl Med** 1996 Oct;37(10):1698–701

Technetium–99m–meso–HMPAO as a potential agent to image cerebral glutathione content. Sasaki T, et al. **J Nucl Med** 1997 Jul;38(7):1125–9

Cerebral glucose metabolism during pharmacologic studies: test–retest under placebo conditions. Schmidt ME, et al. **J Nucl Med** 1996 Jul;37(7):1142–9

Test/retest reproducibility of iodine–123–betaCIT SPECT brain measurement of dopamine transporters in Parkinson's patients. Seibyl JP, et al. **J Nucl Med** 1997 Sep;38(9):1453–9

Cerebral metabolic differences in Parkinson's and Alzheimer's diseases matched for dementia severity. Vander Borght T, et al. **J Nucl Med** 1997 May; 38(5):797–802

Peptide T and glucose metabolism in AIDS dementia complex. Villemagne VL, et al. **J Nucl Med** 1996 Jul; 37(7):1177–80

Reproducibility of regional brain metabolic responses to lorazepam. Wang GJ, et al. **J Nucl Med** 1996 Oct; 37(10):1609–13

Cerebral hemodynamics and metabolism of severe diffuse brain injury measured by PET [see comments] Yamaki T, et al. **J Nucl Med** 1996 Jul;37(7):1166–70. Comment in: J Nucl Med 1996 Jul;37(7):1170–2.

Colostrum enhances the nutritional stimulation of vital organ protein synthesis in neonatal pigs. Burrin DG, et al. **J Nutr** 1997 Jul;127(7):1284–9

Formyltetrahydrofolates associated with mitochondria have longer polyglutamate chains than the methyltetrahydrofolates associated with cytoplasm in rat brain. Carl GF, et al. **J Nutr** 1996 Dec;126(12):3077–82

Gender affects rats' central nervous system histaminergic responses to dietary manipulation. Mercer LP, et al. **J Nutr** 1996 Dec;126(12):3128–35

Vitamin K status influences brain sulfatide metabolism in young mice and rats. Sundaram KS, et al. **J Nutr** 1996 Nov;126(11):2746–51

Arachidonic acid offsets the effects on mouse brain and behavior of a diet with a low (n–6):(n–3) ratio and very high levels of docosahexaenoic acid. Wainwright PE, et al. **J Nutr** 1997 Jan;127(1):184–93

Alteration in brain metabolites of jirds infected with alveolar Echinococcus. Modha A, et al. **J Parasitol** 1997 Aug; 83(4):764–6

Serum autoantibodies in childhood opsoclonus–myoclonus syndrome: an analysis of antigenic targets in neural tissues [see comments] Connolly AM, et al. **J Pediatr** 1997 Jun; 130(6):878–84. Comment in: J Pediatr 1997 Jun;130(6):855–7.

Age–related changes in [3H]nimodipine and [3H]rolipram binding in the rat brain. Araki T, et al. **J Pharm Pharmacol** 1997 Mar;49(3):310–4

Effects of amitriptyline on rat plasma and brain content of monoamine precursors and other large neutral amino acids. Eriksson T, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):1007–14

Synthesis and evaluation of brain–targeted chemical delivery systems for the neurotrophomodulator 4–methylcatechol. Kourounakis A, et al. **J Pharm Pharmacol** 1997 Jan; 49(1):1–9

Detection of platinum in the brain of mice treated with cisplatin and subjected to short–term hypoxia. Minami T, et al. **J Pharm Pharmacol** 1996 May;48(5):505–9

Rat protein binding and cerebral phospholipid affinity of the H3–receptor antagonist thioperamide. Plazzi PV, et al. **J Pharm Pharmacol** 1996 Jul;48(7):712–7

Pharmacokinetics and brain distribution of magnolol in the rat after intravenous bolus injection. Tsai TH, et al. **J Pharm Pharmacol** 1996 Jan;48(1):57–9

Proliposome targeting to rabbit brain tissue [letter] Wang JY, et al. **J Pharm Pharmacol** 1995 Dec;47(12A):1053–4

Effect of smoking history on [3H]nicotine binding in human postmortem brain. Breese CR, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):7–13

Regional differences in cannabinoid receptor/G–protein coupling in rat brain. Breivogel CS, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1632–42

3H–morphine–6beta–glucuronide binding in brain membranes and an MOR–1–transfected cell line. Brown GP, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1291–7

Evaluation of cerebral pharmacokinetics of the novel antidepressant drug, BMS–181101, by positron emission tomography. Christian BT, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):325–31

Sex–related differences in morphine's antinociceptive activity: relationship to serum and brain morphine concentrations. Cicero TJ, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):939–44

Characterization of haloperidol and trifluperidol as subtype–selective N–methyl–D–aspartate (NMDA) receptor antagonists using [3H]TCP and [3H]ifenprodil binding in rat brain membranes. Coughenour LL, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):584–92

[125I]IPH, an epibatidine analog, binds with high affinity to neuronal nicotinic cholinergic receptors. Dávila–García MI, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):445–51

Quantitative evaluation of brain distribution and blood–brain barrier efflux transport of probenecid in rats by microdialysis: possible involvement of the monocarboxylic acid transport system. Deguchi Y, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):551–60

Common quantitative trait loci for alcohol–related behaviors and central nervous system neurotensin measures: hypnotic and hypothermic effects. Erwin VG, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):911–8

Common quantitative trait loci for alcohol–related behaviors and central nervous system neurotensin measures: locomotor activation. Erwin VG, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):919–26

Dopamine receptor subtypes: differential regulation after 8 months treatment with antipsychotic drugs. Florijn WJ, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):561–9

Characterization, receptor mapping and blood–brain barrier transcytosis of antibodies to the human transferrin receptor. Friden PM, et al. **J Pharmacol Exp Ther** 1996 Sep; 278(3):1491–8

N–(3–Iodoprop–2E–enyl)–2beta–carbomethoxy–3beta–(3',4'–dichloro phenyl)nortropane (beta–CDIT), a tropane derivative: pharmacological characterization as a specific ligand for the dopamine transporter in the rodent brain. Garreau L, et al. **J Pharmacol Exp Ther** 1997 Jul; 282(1):467–74

Transport of clonidine across cultured brain microvessel endothelial cells. Huwyler J, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):81–5

The systemic and cerebral kinetics of thiopental in sheep: enantiomeric analysis. Mather LE, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):291–7

Platelet 5–hydroxytryptamine (5–HT) transporter and 5–HT2A receptor binding after chronic hypercorticosteronemia, (+/–)–1–(2,5–dimethoxy–4–iodophenyl)–2–aminopropane administration or neurotoxin–induced depletion of central nervous system 5–HT in the rat. Owens MJ, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1040–9

II. Localization and characterization of dopamine D4 binding sites in rat and human brain by use of the novel, D4 receptor–selective ligand [3H]NGD 94–1. Primus RJ, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):1020–7

Pharmacological activity and safety profile of P10358, a novel, orally active acetylcholinesterase inhibitor for Alzheimer's disease. Smith CP, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):710–20

Glucocorticoids regulate the expression of adenosine A1 but not A(2A) receptors in rat brain. Svenningsson P, et al.

J Pharmacol Exp Ther 1997 Feb;280(2):1094–101
In vivo evidence for carrier-mediated efflux transport of 3'-azido-3'-deoxythymidine and 2',3'-dideoxyinosine across the blood-brain barrier via a probenecid-sensitive transport system. Takasawa K, et al.
J Pharmacol Exp Ther 1997 Apr;281(1):369–75
Distributed model analysis of 3'-azido-3'-deoxythymidine and 2',3'-dideoxyinosine distribution in brain tissue and cerebrospinal fluid. Takasawa K, et al.
J Pharmacol Exp Ther 1997 Sep;282(3):1509–17
Time course of alpha-fluorinated valproic acid in mouse brain and serum and its effect on synaptosomal gamma-aminobutyric acid levels in comparison to valproic acid. Tang W, et al. **J Pharmacol Exp Ther** 1997 Sep; 282(3):1163–72
Nitric oxide and the neurotoxic effects of methamphetamine and 3,4-methylenedioxymethamphetamine. Taraska T, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):941–7
The entry of [D-penicillamine2,5]enkephalin into the central nervous system: saturation kinetics and specificity. Thomas SA, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1235–40
Self-injurious behavior and dopaminergic neuron system in neonatal 6-hydroxydopamine-lesioned rat: 1. Dopaminergic neurons and receptors. Yokoyama C, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1016–30
How to express an effect mean as percentage of a control mean? Feuerstein TJ, et al.
J Pharmacol Toxicol Methods 1997 Jun;37(4):187–90 (7 ref.)
Melatonin and N-tert-butyl-alpha-phenylnitrone block 60-Hz magnetic field-induced DNA single and double strand breaks in rat brain cells. Lai H, et al.
J Pineal Res 1997 Apr;22(3):152–62
Demonstration of clomipramine and venlafaxine occupation at serotonin reuptake sites in man in vivo. Malizia AL, et al. **J Psychopharmacol (Oxf)** 1997;11(3):279–81
Endogenous neurotoxins relevant to schizophrenia. Smythies J. **J R Soc Med** 1996 Dec;89(12):679–80 (26 ref.)
Immunobiochemical characterization of the NMDA-receptor subunit NR1 in the developing and adult rat brain. Benke D, et al.
J Recept Signal Transduct Res 1995 Jan-Mar; 15(1–4):393–411
Distinct binding patterns of [3H]raclopride and [3H]spiperone at dopamine D2 receptors in vivo in rat brain. Implications for pet studies. Bischoff S, et al.
J Recept Signal Transduct Res 1997 Jan-May; 17(1–3):419–31
Binding sites for melanin-concentrating hormone (MCH) in brain synaptosomes and membranes from peripheral tissues identified with highly tritiated MCH. Drozdz R, et al.
J Recept Signal Transduct Res 1995 Jan-Mar; 15(1–4):487–502
Autoradiographic localization of 5-HT1E and 5-HT1F binding sites in rat brain: effect of serotonergic lesioning. Fugelli A, et al. **J Recept Signal Transduct Res** 1997 Jul; 17(4):631–45
[3H]-SR 27897B: a selective probe for autoradiographic labelling of CCK-A receptors in the brain. Zajac JM, et al. **J Recept Signal Transduct Res** 1996 Jan-Mar; 16(1–2):93–113
Zebra finch estrogen receptor cDNA: cloning and mRNA expression. Jacobs EC, et al.
J Steroid Biochem Mol Biol 1996 Oct;59(2):135–45
Direct interactions of androgenic/anabolic steroids with the peripheral benzodiazepine receptor in rat brain: implications for the psychological and physiological manifestations of androgenic/anabolic steroid abuse. Masonis AE, et al. **J Steroid Biochem Mol Biol** 1996 Aug; 58(5–6):551–5
High-affinity binding of corticosterone to mammalian neuronal membranes: possible role of corticosteroid binding globulin. Orchinik M, et al.
J Steroid Biochem Mol Biol 1997 Feb;60(3–4):229–36
Existence and expression of the untranslated first exon of aromatase mRNA in the rat brain. Yamada-Mouri N, et al. **J Steroid Biochem Mol Biol** 1996 May;58(2):163–6
Immunolocalization of several laminin chains in the normal human central and peripheral nervous system. Villanova M, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):409–13
Determination of the flux control coefficient of nitric oxide synthase for nitric oxide synthesis in discrete brain regions in vivo. Salter M. **J Theor Biol** 1996 Oct 7;182(3):449–52
Cerebral oxygenation during cardiopulmonary bypass in children. Kurth CD, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):71–8; discussion 78–9
Higher hematocrit improves cerebral outcome after deep hypothermic circulatory arrest. Shin'oka T, et al.
J Thorac Cardiovasc Surg 1996 Dec;112(6):1610–20; discussion 1620–1
Brain mercury in neurodegenerative disorders. Fung YK, et al. **J Toxicol Clin Toxicol** 1997;35(1):49–54
Silver concentrations in human tissues. their dependence on dental amalgam and other factors. Drasch G, et al.
J Trace Elem Med Biol 1995 Jul;9(2):82–7
Arterial-jugular vein free amino acid levels in patients with head injuries: important role of glutamine in cerebral nitrogen metabolism. Petersen SR, et al. **J Trauma** 1996 Oct;41(4):687–94; discussion 694–5
In vivo transcriptional regulation of the human immunodeficiency virus in the central nervous system in transgenic mice. Kurth J, et al. **J Virol** 1996 Nov; 70(11):7686–94
Late virus replication events in microglia are required for neurovirulent retrovirus-induced spongiform neurodegeneration: evidence from neural progenitor-derived chimeric mouse brains. Lynch WP, et al. **J Virol** 1996 Dec;70(12):8896–907
Molecular determinants for cellular uptake of Tat protein of human immunodeficiency virus type 1 in brain cells. Ma M, et al. **J Virol** 1997 Mar;71(3):2495–9
Assessment of protein kinase C mRNA levels in Alzheimer's disease brains. Chachin M, et al. **Jpn J Pharmacol** 1996 Jun;71(2):175–7
Effect of fluvoxamine on 5-hydroxytryptamine uptake, paroxetine binding sites and ketanserin binding sites in the Japanese monkey brain and platelets, in vivo and in vitro. Goto S, et al. **Jpn J Pharmacol** 1996 Aug;71(4):291–8
Alterations in local cerebral glucose metabolism and endogenous thyrotropin-releasing hormone levels in rolling mouse Nagoya and effect of thyrotropin-releasing hormone tartrate. Nakayama T, et al. **Jpn J Pharmacol** 1996 Nov; 72(3):241–6
Functional interaction between serotonin and other neuronal systems: focus on in vivo microdialysis studies. Saito H, et al. **Jpn J Pharmacol** 1996 Mar;70(3):203–5 (221 ref.)
Cloning and functional expression of the rat brain KIR6.2 channel. Takano M, et al. **Jpn J Physiol** 1996 Dec; 46(6):491–5
Heterogeneities and profiles of oxygen pressure in brain and kidney as examples of the pO2 distribution in the living tissue. Lübbers DW, et al. **Kidney Int** 1997 Feb;51(2):372–80 (40 ref.)
Detection of erythropoietin in human liquor: intrinsic erythropoietin production in the brain. Marti HH, et al. **Kidney Int** 1997 Feb;51(2):416–8
Neuropathological sequelae of traumatic brain injury: relationship to neurochemical and biomechanical mechanisms. McIntosh TK, et al. **Lab Invest** 1996 Feb; 74(2):315–42 (218 ref.)
Relapse of depression after rapid depletion of tryptophan [see comments] Smith KA, et al. **Lancet** 1997 Mar 29; 349(9056):915–9. Comment in: Lancet 1997 May 24;349(9064):1553–4. Comment in: Lancet 1997 Jun 21;349(9068):1840–1.
Specific binding of [3H]resiniferatoxin by human and rat preoptic area, locus ceruleus, medial hypothalamus, reticular formation and ventral thalamus membrane preparations. Acs G, et al. **Life Sci** 1996;59(22):1899–908
The role of catecholamines in the etiology of infertility in diabetes mellitus. Bitar MS. **Life Sci** 1997;61(1):65–73
Neurotransmitter aberrations in schizophrenia: new perspectives and therapeutic implications. Carlsson A, et al. **Life Sci** 1997;61(2):75–94 (67 ref.)
Solubilization and characterization of binding sites for [3H]NE-100, a novel and potent sigma 1 ligand, from guinea pig brain. Chaki S, et al. **Life Sci** 1996; 59(16):1331–40
Effects of triamcinolone on brain and cerebrospinal fluid apolipoprotein E levels in rats. Chiba H, et al. **Life Sci** 1997;60(20):1757–61
Effect of the P-glycoprotein inhibitor, SDZ PSC 833, on the blood and brain pharmacokinetics of colchicine. Desrayaud S, et al. **Life Sci** 1997;61(2):153–63
Two pyridinium metabolites of haloperidol are present in the brain of patients at post-mortem. Eyles DW, et al. **Life Sci** 1997;60(8):529–34
Regionally specific effects of diazepam on brain serotonin metabolism in rats: sustained effects following repeated administration. Haleem DJ, et al. **Life Sci** 1996; 59(15):PL239–46
In vivo regulation of serotonin 5-HT2A receptors in rat brain by subchronic administration of sigma receptor ligand NE-100. Hashimoto K, et al. **Life Sci** 1997;60(24):2245–54
Inhibitory guanine nucleotide regulatory protein alpha-subunits in brain of spontaneously hypertensive rats. Ichida T, et al. **Life Sci** 1996;59(25–26):2167–71
Sex difference in up-regulation of nicotinic acetylcholine receptors in rat brain. Koylu E, et al. **Life Sci** 1997; 61(12):PL 185–90
Topography and thermotropic properties of cannabinoids in brain sphingomyelin bilayers. Mavromoustakos T, et al. **Life Sci** 1996;59(23):1969–79
Clozapine occupies high levels of dopamine D2 receptors. Seeman P, et al. **Life Sci** 1997;60(12):PL 207–16
Effect of 5,7-dihydroxytryptamine on audiogenic seizures in genetically epilepsy-prone rats. Statnick MA, et al. **Life Sci** 1996;59(21):1763–71
[3H]benzylpempidine, a new radioligand for probing a putative channel site on nicotinic cholinergic receptors. Wang DX, et al. **Life Sci** 1997;60(15):1271–7
Binding of [3H]2-(2-benzofuranyl)-2-imidazoline (BFI) to human brain: potentiation by tranylcypromine. Wiest SA, et al. **Life Sci** 1997;60(9):605–15
Early dietary intervention with structured triacylglycerols containing docosahexaenoic acid. Effect on brain, liver, and adipose tissue lipids. Christensen MM, et al. **Lipids** 1997 Feb;32(2):185–91
Modifying the n-3 fatty acid content of the maternal diet to determine the requirements of the fetal and suckling rat. Guesnet P, et al. **Lipids** 1997 May;32(5):527–34
Involvement of phospholipid molecular species in controlling structural order of vertebrate brain synaptic membranes during thermal evolution. Kitajka K, et al. **Lipids** 1996 Oct; 31(10):1045–50
Increasing dietary linoleic acid in young rats increases and then decreases docosahexaenoic acid in retina but not in brain. Su HM, et al. **Lipids** 1996 Dec;31(12):1289–98
Oxidation of cholesterol in synaptosomes and mitochondria isolated from rat brains. Vatassery GT, et al. **Lipids** 1997 Aug;32(8):879–86
An analysis of the intracerebral ability to eliminate a nitroxide radical in the rat after administration of idebenone by an in vivo rapid scan electron spin resonance spectrometer. Yokoyama H, et al. **MAGMA** 1996 Sep-Dec;4(3–4):247–50
MR evaluation of age-related increase of brain iron in young adult and older normal males. Bartzokis G, et al.
Magn Reson Imaging 1997;15(1):29–35
Correlation of seizure frequency with N-acetyl-aspartate levels determined by 1H magnetic resonance spectroscopic imaging. Garcia PA, et al. **Magn Reson Imaging** 1997; 15(4):475–8
Brain metabolite changes in alcoholism: an in vivo proton magnetic resonance spectroscopy (MRS) study. Jagannathan NR, et al. **Magn Reson Imaging** 1996; 14(5):553–7
Evidence for left-right asymmetries in the proton MRS of brain in normal volunteers. Jayasundar R, et al.
Magn Reson Imaging 1997;15(2):223–34
An external reference for in vivo quantification of 1H spectroscopy. Maeda H, et al. **Magn Reson Imaging** 1996; 14(9):1067–72
Dissociation between lactate accumulation and acidosis in middle cerebral artery-occluded rats assessed by 31P and 1H NMR metabolic images under a 2-T magnetic field. Morikawa S, et al. **Magn Reson Imaging** 1996; 14(10):1197–204
Reproducibility of metabolite peak areas in 1H MRS of the human brain [letter; comment] Roser W.
Magn Reson Imaging 1997;15(3):381–3. Comment on: Magn Reson Imaging 1996;14(3):281–92.
Anisotropic water diffusion in white and gray matter of the neonatal piglet brain before and after transient hypoxia-ischaemia. Thornton JS, et al.
Magn Reson Imaging 1997;15(4):433–40
ESR imaging of the rat brain with a nitroxide radical perfused by in vivo microdialysis. Ueda Y, et al.
Magn Reson Imaging 1997;15(3):355–60
A spatiotemporal study on the distribution of intraperitoneally injected nitroxide radical in the rat head using an in vivo ESR imaging system. Yokoyama H, et al. **Magn Reson Imaging** 1996;14(5):559–63
In vivo observation of anisotropic motion of brain water using 2H double quantum filtered NMR spectroscopy. Assaf Y, et al. **Magn Reson Med** 1997 Feb;37(2):197–203
Quantitative tissue sodium concentration mapping of normal rat brain. Christensen JD, et al. **Magn Reson Med** 1996 Jul;36(1):83–9
In vivo phosphorus polarization transfer and decoupling from protons in three-dimensional localized nuclear magnetic resonance spectroscopy of human brain. Gonen O, et al.
Magn Reson Med 1997 Feb;37(2):301–6
Observation of resolved glucose signals in 1H NMR spectra of the human brain at 4 Tesla. Gruetter R, et al.
Magn Reson Med 1996 Jul;36(1):1–6
Quantitative 1H spectroscopic imaging of human brain at 4.1 T using image segmentation. Hetherington HP, et al.
Magn Reson Med 1996 Jul;36(1):21–9
Effects of severe global ischemia on N-acetylaspartate and other metabolites in the rat brain. Higuchi T, et al.
Magn Reson Med 1997 Jun;37(6):851–7
A technique for detecting GABA in the human brain with PRESS localization and optimized refocusing spectral editing radiofrequency pulses. Keltner JR, et al.
Magn Reson Med 1996 Sep;36(3):458–61
Comparison of blood oxygenation and cerebral blood flow effects in fMRI: estimation of relative oxygen consumption change. Kim SG, et al. **Magn Reson Med** 1997 Jul; 38(1):59–65
Quantitative regional brain water measurement with magnetic resonance imaging in a focal ischemia model. Lin W, et al. **Magn Reson Med** 1997 Aug;38(2):303–10
Temporal lobe epilepsy: correlation of proton magnetic resonance spectroscopy and 18F-fluorodeoxyglucose positron emission tomography. Lu D, et al.
Magn Reson Med 1997 Jan;37(1):18–23
Spectroscopic imaging of human brain glutamate by water-suppressed J-refocused coherence transfer at 4.1 T. Pan JW, et al. **Magn Reson Med** 1996 Jul;36(1):7–12
Evaluation of multiple sclerosis by 1H spectroscopic imaging at 4.1 T. Pan JW, et al. **Magn Reson Med** 1996 Jul; 36(1):72–7
13C editing of glutamate in human brain using J-refocused coherence transfer spectroscopy at 4.1 T. Pan JW, et al.
Magn Reson Med 1997 Mar;37(3):355–8
In vivo measurement of regional brain metabolic response to hyperventilation using magnetic resonance: proton echo planar spectroscopic imaging (PEPSI). Posse S, et al.
Magn Reson Med 1997 Jun;37(6):858–65
Detection of glutamate/glutamine resonances by 1H magnetic resonance spectroscopy at 0.5 tesla. Prost RW, et al. **Magn Reson Med** 1997 Apr;37(4):615–8
Evidence for the exchange of arterial spin-labeled water with tissue water in rat brain from diffusion-sensitized measurements of perfusion. Silva AC, et al.
Magn Reson Med 1997 Aug;38(2):232–7
Diffusion of metabolites in normal and ischemic rat brain

measured by localized 1H MRS. van der Toorn A, et al. **Magn Reson Med** 1996 Dec;36(6):914–22

Dynamic changes in water ADC, energy metabolism, extracellular space volume, and tortuosity in neonatal rat brain during global ischemia. van der Toorn A, et al. **Magn Reson Med** 1996 Jul;36(1):52–60

Characterization of the cerebral distribution of general anesthetics in vivo by two-dimensional 19F chemical shift imaging. Venkatasubramanian PN, et al. **Magn Reson Med** 1996 Apr;35(4):626–30

In vivo measurement of T2 distributions and water contents in normal human brain. Whittall KP, et al. **Magn Reson Med** 1997 Jan;37(1):34–43

Estimation of brain iron in vivo by means of the interecho time dependence of image contrast. Ye FQ, et al. **Magn Reson Med** 1996 Jul;36(1):153–8

Reversible, reproducible reduction of brain water apparent diffusion coefficient by cortical electroshocks. Zhong J, et al. **Magn Reson Med** 1997 Jan;37(1):1–6

Localization of human and mouse N-ethylmaleimide-sensitive factor (NSF) gene: a two-domain member of the AAA family that is involved in membrane fusion. Hoyle J, et al. **Mamm Genome** 1996 Nov;7(11):850–2

The gene encoding the central cannabinoid receptor is located in proximal mouse Chromosome 4. Stubbs L, et al. **Mamm Genome** 1996 Feb;7(2):165–6

Murine Hn1 on chromosome 11 is expressed in hemopoietic and brain tissues. Tang W, et al. **Mamm Genome** 1997 Sep; 8(9):695–6

Regional age-related alterations in cholinergic and GABAergic receptors in the rat brain. Araki T, et al. **Mech Ageing Dev** 1996 Jul 5;88(1–2):49–60

Effects of vinconate on age-related alterations in [3H]MK-801, [3H]glycine, sodium-dependent D-[3H]aspartate, [3H]FK-506 and [3H]PN200–110 binding in rats. Araki T, et al. **Mech Ageing Dev** 1997 Apr; 95(1–2):13–29

The effect of age on calcium dynamics in rat brain in vivo. Das N, et al. **Mech Ageing Dev** 1996 Jul 5;88(1–2):17–24

Mitochondrial electron transport chain activities and DNA deletions in regions of the rat brain. Filburn CR, et al. **Mech Ageing Dev** 1996 May 24;87(1):35–46

Levels and activity of brain protein kinase C alpha and zeta during the aging of the medfly. Galve-Roperh I, et al. **Mech Ageing Dev** 1996 Nov 29;92(1):21–9

Age-related increase in nitric oxide synthase activity in senescence accelerated mouse brain and the effect of long-term administration of superoxide radical scavenger. Inada K, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):95–102

cAMP signalling mechanisms with aging in the Ceratitis capitata brain. Laviada ID, et al. **Mech Ageing Dev** 1997 Jul;97(1):45–53

DNA status in brain and heart as prominent co-determinant for life span? Assessing the different degrees of DNA damage, damage susceptibility, and repair capability in different organs of young and old mice. Zahn RK, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):79–94

Insulin receptors in mouse brain: age-related modifications are corrected by thymus graft. Zaia A, et al. **Mech Ageing Dev** 1997 Oct;98(1):37–46

Transcription factor hoxa-5 is taken up by cells in culture and conveyed to their nuclei. Chatelin L, et al. **Mech Dev** 1996 Apr;55(2):111–7

Xwnt-2b is a novel axis-inducing Xenopus Wnt, which is expressed in embryonic brain. Landesman Y, et al. **Mech Dev** 1997 May;63(2):199–209

Fluctuations in the cerebral oxygenation state during the resting period in functional mapping studies of the human brain. Hoshi Y, et al. **Med Biol Eng Comput** 1997 Jul; 35(4):328–30

Disturbances of calcium homeostasis within the endoplasmic reticulum may contribute to the development of ischemic-cell damage. Paschen W. **Med Hypotheses** 1996 Oct;47(4):283–8 (57 ref.)

Effects of acute physical exercise on central serotonergic systems. Chaouloff F. **Med Sci Sports Exerc** 1997 Jan; 29(1):58–62 (39 ref.)

Brain monoamines, exercise, and behavioral stress: animal models. Dishman RK. **Med Sci Sports Exerc** 1997 Jan; 29(1):63–74 (76 ref.)

Simulated weightlessness to induce chronic hypoactivity of brain norepinephrine for exercise and stress studies. Sothmann M, et al. **Med Sci Sports Exerc** 1997 Jan; 29(1):39–44 (42 ref.)

Metabolism of methylmercury in the brain and its toxicological significance. Mottet NK, et al. **Met Ions Biol Syst** 1997;34:371–403 (202 ref.)

Inhibition of brain tubulin-guanosine 5'-triphosphate interactions by mercury: similarity to observations in Alzheimer's diseased brain. Pendergrass JC, et al. **Met Ions Biol Syst** 1997;34:461–78 (35 ref.)

Contrasting effects of thioacetamide-induced liver damage on the brain uptake indices of ornithine, arginine and lysine: modulation by treatment with ornithine aspartate. Albrecht J, et al. **Metab Brain Dis** 1996 Sep;11(3):229–37

The 13C isotope and nuclear magnetic resonance: unique tools for the study of brain metabolism. Mason GF, et al. **Metab Brain Dis** 1996 Dec;11(4):283–313 (85 ref.)

Taurine as osmoregulator and neuromodulator in the brain. Oja SS, et al. **Metab Brain Dis** 1996 Jun;11(2):153–64

Brain beta-adrenergic receptor binding in rats with obesity induced by a beef tallow diet. Matsuo T, et al. **Metabolism** 1997 Jan;46(1):18–22

Oxygen consumption in the heart, hepatomesenteric bed, and brain in young and elderly human subjects, and accompanying sympathetic nervous activity. Vaz M, et al. **Metabolism** 1996 Dec;45(12):1487–92

Electron paramagnetic resonance characterization of rat neuronal nitric oxide production ex vivo. Kozlov AV, et al. **Methods Enzymol** 1996;268:229–36

Mitochondrial protein synthesis in rat brain synaptosomes. Loguercio Polosa P, et al. **Methods Enzymol** 1996; 264:211–7

Nitric oxide-cyclic GMP pathway in brain slices. Southam E, et al. **Methods Enzymol** 1996;269:129–33 (13 ref.)

Muscarinic receptors in Alzheimer's disease. Pavía J, et al. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:71–5

Differences in acetylcholine but not choline in brain tissue fixed by freeze fixation or microwave heating. Shahed AR, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul–Aug; 18(6):349–51

The application of differential display to the brain. Adaptations for the study of heterogeneous tissue. Babity JM, et al. **Methods Mol Biol** 1997;85:285–95

Isolation of song-regulated genes in the brain of songbirds. Mello CV, et al. **Methods Mol Biol** 1997;85:205–17

Agonist-induced high-affinity GTP hydrolysis as an index of receptor-mediated G protein activation in mammalian brain membranes. Odagaki Y, et al. **Methods Mol Biol** 1997; 83:133–41 (15 ref.)

Autoradiographic visualization in brain of receptor-G protein coupling using [35S]GTP gamma S binding. Sim LJ, et al. **Methods Mol Biol** 1997;83:117–32 (40 ref.)

Monitoring amino acid neurotransmitter release in the brain by in vivo microdialysis. Zuiderwijk M, et al. **Methods Mol Biol** 1997;72:239–50

Unique expression of HRF20 (CD59) in human nervous tissue. Akatsu H, et al. **Microbiol Immunol** 1997;41(4):321–9

Vascular permeability in the peripheral autonomic and somatic nervous systems: controversial aspects and comparisons with the blood-brain barrier. Kiernan JA. **Microsc Res Tech** 1996 Oct 1;35(2):122–36 (239 ref.)

Tissue and cell-type specific expression of the tuberous sclerosis gene, TSC2, in human tissues. Menchine M, et al. **Mod Pathol** 1996 Nov;9(11):1071–80

Increase in calcium content and Ca(2+)-ATPase activity in the brain of fasted rats: comparison with different ages. Hanahisa Y, et al. **Mol Cell Biochem** 1997 Jun; 171(1–2):127–32

Characterization of calcium accumulation in the brain of rats administered orally calcium: the significance of energy-dependent mechanism. Hanahisa Y, et al. **Mol Cell Biochem** 1996 May 10;158(1):1–7

GABA agonists and neurotransmitters metabolizing enzymes in steroid-primed OVX rats. Kaur G, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):107–11

Bach proteins belong to a novel family of BTB-basic leucine zipper transcription factors that interact with MafK and regulate transcription through the NF-E2 site. Oyake T, et al. **Mol Cell Biol** 1996 Nov;16(11):6083–95

Expression of Tiam-1 in the developing brain suggests a role for the Tiam-1-Rac signaling pathway in cell migration and neurite outgrowth. Ehler E, et al. **Mol Cell Neurosci** 1997 Jan;9(1):1–12

Expression patterns of two murine homologs of Drosophila single-minded suggest possible roles in embryonic patterning and in the pathogenesis of Down syndrome [published erratum appears in Mol Cell Neurosci 1996 Jun;7(6):519] Fan CM, et al. **Mol Cell Neurosci** 1996 Jan; 7(1):1–16

Transient coupling of Ng-CAM expression to NgCAM-dependent calcium signaling during migration of new neurons in the adult songbird brain. Goldman SA, et al. **Mol Cell Neurosci** 1996 Jan;7(1):29–45

Accelerated and widespread neuronal loss occurs in motor neuron degeneration (mnd) mice expressing a neurofilament-disrupting transgene. Plummer J, et al. **Mol Cell Neurosci** 1995 Dec;6(6):532–43

Developmental expression, subcellular localization, and tyrosine phosphorylation of NR2A and NR2B in the rat brain. Jin DH, et al. **Mol Cells** 1997 Feb 28;7(1):64–71

Monitoring catecholamine differentiation in the embryonic brain and peripheral neurons using E. coli lacZ as a reporter gene. Kim SJ, et al. **Mol Cells** 1997 Jun 30;7(3):394–8

Novel mitochondrial proteins and decreased intrinsic activity of cytochrome-c oxidase. Characteristics of swayback disease in sheep. Alleyne T, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1–3):285–93

The possible place of cathepsins and cystatins in the puzzle of Alzheimer disease: a review. Bernstein HG, et al. **Mol Chem Neuropathol** 1996 Apr;27(3):225–47 (138 ref.)

Alterations of excitatory amino acid receptors in the brain of manganese-treated mice. Cano G, et al. **Mol Chem Neuropathol** 1997 Jan–Feb;30(1–2):41–52

The effects of oxidative stress on in vivo brain GSH turnover in young and mature mice. Chang ML, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):187–97

Pharmacokinetics of intracerebroventricular tBuOOH in young adult and mature mice. Chang ML, et al. **Mol Chem Neuropathol** 1997 May;31(1):73–84

Retinoic acid synthesis in normal and Alzheimer diseased brain and human neural cells. Connor MJ, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):239–52

Does lead provoke the peroxidation process in rat brain synaptosomes? Dąbrowska-Bouta B, et al. **Mol Chem Neuropathol** 1996 Oct–Dec;29(2–3):127–39

Changes in brain putrescine concentration associated with nonconvulsant behavioral patterns induced by systemic N-methyl-D-aspartate injection. Giménez-Llort L, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):289–302

Acrylamide and carbon disulfide treatments increase the rate of rat brain tubulin polymerization. Gupta RP, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):223–37

Laminins in the adult and aged brain. Jucker M, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1–3):209–18 (44 ref.)

Possible regulation of high-affinity glutamate uptake in synaptosomes of normal and epileptic mice. Ortiz JG, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1–3):127–33

The heat shock/oxidative stress connection. Relevance to Alzheimer disease. Pappolla MA, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1–3):21–34 (57 ref.)

Progesterone protects against lipid peroxidation following traumatic brain injury in rats. Roof RL, et al. **Mol Chem Neuropathol** 1997 May;31(1):1–11

Non-NMDA glutamate receptor binding in canine brain after global cerebral ischemia and reperfusion. Wei H, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):37–52

Global cerebral ischemia and reperfusion alters NMDA receptor binding in canine brain. Wei H, et al. **Mol Chem Neuropathol** 1997 Jan–Feb;30(1–2):25–39

The cytoplasmic domain of Alzheimer's amyloid precursor protein is phosphorylated at Thr654, Ser655, and Thr668 in adult rat brain and cultured cells. Oishi M, et al. **Mol Med** 1997 Feb;3(2):111–23

Morphine down-regulates melanocortin-4 receptor expression in brain regions that mediate opiate addiction. Alvaro JD, et al. **Mol Pharmacol** 1996 Sep;50(3):583–91

High affinity binding of pyrethroids to the alpha subunit of brain sodium channels. Trainer VL, et al. **Mol Pharmacol** 1997 Apr;51(4):651–7

Expanding the range of cytokines and cytokine receptors in the brain [news] Dantzer R. **Mol Psychiatry** 1996 May; 1(2):98

Rat LCR1: cloning and cellular distribution of a putative chemokine receptor in brain. Wong ML, et al. **Mol Psychiatry** 1996 May;1(2):133–40

Nerve growth factor somatic mosaicism produced by herpes virus-directed expression of cre recombinase. Brooks AI, et al. **Nat Biotechnol** 1997 Jan;15(1):57–62

A beta deposition inhibitor screen using synthetic amyloid. Esler WP, et al. **Nat Biotechnol** 1997 Mar;15(3):258–63

Decreased lysosomal storage in the adult MPS VII mouse brain in the vicinity of grafts of retroviral vector-corrected fibroblasts secreting high levels of beta-glucuronidase [see comments] Taylor RM, et al. **Nat Med** 1997 Jul;3(7):771–4 . Comment in: Nat Med 1997 Jul;3(7):719–20.

Increased mu opioid receptor binding detected by PET in cocaine-dependent men is associated with cocaine craving. Zubieta JK, et al. **Nat Med** 1996 Nov;2(11):1225–9

Complex association and dissociation kinetics of brevetoxin binding to voltage-sensitive rat brain sodium channels. Whitney PL, et al. **Nat Toxins** 1996;4(6):261–70

PrP-expressing tissue required for transfer of scrapie infectivity from spleen to brain. Blättler T, et al. **Nature** 1997 Sep 4;389(6646):69–73

Increased amyloid-beta42(43) in brains of mice expressing mutant presenilin 1. Duff K, et al. **Nature** 1996 Oct 24; 383(6602):710–3

Phospholipase C isozymes selectively couple to specific neurotransmitter receptors. Kim D, et al. **Nature** 1997 Sep 18;389(6648):290–3

Neurotactin, a membrane-anchored chemokine upregulated in brain inflammation. Pan Y, et al. **Nature** 1997 Jun 5; 387(6633):611–7

Labelling of I2B-imidazoline receptors by [3H]2-(2-benzofuranyl)-2-imidazoline (2-BFI) in rat brain and liver: characterization, regulation and relation to monoamine oxidase enzymes. Alemany R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):39–47

Alpha 2-autoreceptors and alpha 2-heteroreceptors modulating tyrosine and tryptophan hydroxylase activity in the rat brain in vivo: an investigation into the alpha 2-adrenoceptor subtypes. Esteban S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):391–9

Multiple [3H]-nemonapride binding sites in calf brain. Helmeste DM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):17–21

The selective adenosine A2A receptor antagonist SCH 58261 discriminates between two different binding sites for [3H]-CGS 21680 in the rat brain. Lindström K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):539–41

Morphine-6-O-beta-D-glucuronide but not morphine-3-O-beta-D-glucuronide binds to mu-, delta- and kappa- specific opioid binding sites in cerebral membranes. Löser SV, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):192–7

Is upregulation of benzodiazepine receptors a compensatory reaction to reduced GABAergic tone in the brain of

stressed mice? Pokk P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):703–8

Autoradiographic analysis of somatostatin SRIF1 and SRIF2 receptors in the human brain and pituitary. Thoss VS, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):168–76

Expression of five somatostatin receptor mRNAs in the human brain and pituitary. Thoss VS, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):411–9

Region-specific downregulation of free intracellular calcium in the aged rat brain. Hartmann H, et al. **Neurobiol Aging** 1996 Jul-Aug;17(4):557–63

Quantitative 1H and 31P MRS of PCA extracts of postmortem Alzheimer's disease brain. Klunk WE, et al. **Neurobiol Aging** 1996 May-Jun;17(3):349–57

Astrocytes, brain aging, and neurodegeneration. Langston W. **Neurobiol Aging** 1996 May-Jun;17(3):483–5; discussion 488–90

Human brain S100 beta and S100 beta mRNA expression increases with age: pathogenic implications for Alzheimer's disease. Sheng JG, et al. **Neurobiol Aging** 1996 May-Jun; 17(3):359–63

N-methyl-D-aspartate receptor binding in brains of rats at different ages. Shimada A, et al. **Neurobiol Aging** 1997 May-Jun;18(3):329–33

Expression of the adrenoleukodystrophy protein in the human and mouse central nervous system. Fouquet F, et al. **Neurobiol Dis** 1997;3(4):271–85

Interleukin-1alpha in the brain is induced by audiogenic seizure. Gahring LC, et al. **Neurobiol Dis** 1997;3(4):263–9

Identification of new human myelin basic protein transcripts in the immune and central nervous systems. Grima B, et al. **Neurobiol Dis** 1994 Nov;1(1–2):61–6

Re-expression of the intermediate filament nestin in reactive astrocytes. Lin RCS, et al. **Neurobiol Dis** 1995 Apr; 2(2):79–85

Presenilin proteins undergo heterogeneous endoproteolysis between Thr291 and Ala299 and occur as stable N- and C-terminal fragments in normal and Alzheimer brain tissue. Podlisny MB, et al. **Neurobiol Dis** 1997;3(4):325–37

Permeability and residual plasma volume of human, Dutch variant, and rat amyloid beta-protein 1–40 at the blood-brain barrier [see comments] Poduslo JF, et al. **Neurobiol Dis** 1997;4(1):27–34. Comment in: Neurobiol Dis 1997 ;4(1):23–6.

APP gene family: unique age-associated changes in splicing of Alzheimer's betaA4-amyloid protein precursor. Sandbrink R, et al. **Neurobiol Dis** 1994 Nov;1(1–2):13–24

beta-Amyloid protein precursor in Microcebus murinus: genotyping and brain localization. Silhol S, et al. **Neurobiol Dis** 1996;3(3):169–82

Chronic aluminum treatment results in aluminum deposits and affects Ml muscarinic receptors in rat brain. Harkány T, et al. **Neurobiology (Bp)** 1996;4(1–2):35–43

Effect of hypocholinergic activity on the immunoreactivity of beta-amyloid precursor protein in the central nervous system. Kása P, et al. **Neurobiology (Bp)** 1996;4(1-2):119–21

Sulfurtransferases activity and the level of low-molecular-weight thiols and sulfane sulfur compounds in cortex and brain stem of mouse. Wróbel M, et al. **Neurobiology (Bp)** 1996;4(3):217–22

Expression of beta 1-4 N-acetylgalactosaminyltransferase gene in the developing rat brain and retina: mRNA, protein immunoreactivity and enzyme activity. Daniotti JL, et al. **Neurochem Int** 1997 Jul;31(1):11–9

Binding of new cirazoline derivative to imidazoline receptors from human brain. Dontenwill M, et al. **Neurochem Int** 1997 Jan;30(1):9–16

Changes in cholecystokinin mRNA expression in methamphetamine-induced behavioral sensitization. Fukamauchi F. **Neurochem Int** 1996 Apr;28(4):391–4

I2-imidazoline binding sites and monoamine oxidase activity in human postmortem brain from patients with Parkinson's disease. Gargalidis-Moudanos C, et al. **Neurochem Int** 1997 Jan;30(1):31–6

Nocturnal decreases in nitric oxide and cyclic GMP contents in the chick brain and their prevention by light. Guerrero JM, et al. **Neurochem Int** 1996 Oct;29(4):417–21

Oxidative stress alters arginine metabolism in rat brain: effect of sub-convulsive hyperbaric oxygen exposure. Ito T, et al. **Neurochem Int** 1996 Aug;29(2):187–95

The effects of single and repeated phencyclidine administration on [125I] iomazenil binding in the rat brain. Kaneko K, et al. **Neurochem Int** 1996 Sep;29(3):279–87

Tetrahydrobiopterin biosynthesis in the rat brain: heterogeneity of GTP cyclohydrolase I mRNA expression in monoamine-containing neurons [published erratum appears in Neurochem Int 1996 Oct;29(4):I–II] Lentz SI, et al. **Neurochem Int** 1996 May-Jun;28(5-6):569–82

A developmental study of protein phosphorylating systems stimulated by phorbol dibutyrate in micro-slices of rat brain. Salbego C, et al. **Neurochem Int** 1996 Apr;28(4):431–8

Densities of I2-imidazoline receptors, alpha 2-adrenoceptors and monoamine oxidase B in brains of suicide victims. Sastre M, et al. **Neurochem Int** 1997 Jan;30(1):63–72

Differential expression of c-fos mRNA in rat prefrontal cortex, striatum, N. accumbens and lateral septum after typical and atypical antipsychotics: an in situ hybridization study. Semba J, et al. **Neurochem Int** 1996 Oct;29(4):435–42

Levels of dynorphin peptides in the central nervous system and pituitary gland of the spontaneously hypertensive rat. Tan-No K, et al. **Neurochem Int** 1997 Jul;31(1):27–32

Chronic imipramine treatment upregulates IR2-imidazoline receptive sites in rat brain. Zhu H, et al. **Neurochem Int** 1997 Jan;30(1):101–7

Expression of the ubiquitin genes in brain of normal and Fe/Dextran injected rats. Adamo AM, et al. **Neurochem Res** 1997 Apr;22(4):345–50

Genes encoding giant danio and golden shiner ependymin. Adams DS, et al. **Neurochem Res** 1996 Mar;21(3):377–84

Regulation of pyridoxal-5'-phosphate level by biogenic amines in mouse brain. Asakura T, et al. **Neurochem Res** 1996 Jan;21(1):47–50

The endothelin system and endothelin-converting enzyme in the brain: molecular and cellular studies. Barnes K, et al. **Neurochem Res** 1997 Aug;22(8):1033–40 (74 ref.)

Metabolite concentrations and relaxation in perinatal cerebral hypoxic-ischemic injury. Cady EB. **Neurochem Res** 1996 Sep;21(9):1043–52

Characterization of a voltage-dependent L-type calcium channel from rabbit and turtle brain. Costa B, et al. **Neurochem Res** 1996 May;21(5):537–40

Relation between free fatty acid and acyl-CoA concentrations in rat brain following decapitation. Deutsch J, et al. **Neurochem Res** 1997 Jul;22(7):759–65

Effects of exogenous hexacosanoic acid on biochemical myelin composition in weaning and post-weaning rats. Di Biase A, et al. **Neurochem Res** 1997 Mar;22(3):327–31

Regional and developmental variations in metabolite concentration in the rat brain and eye: a study using 1H NMR spectroscopy and high performance liquid chromatography. Florian CL, et al. **Neurochem Res** 1996 Sep;21(9):1065–74

Autoradiographic characterisation of [35S]GTP gamma S binding sites in rat brain. García-Jiménez A, et al. **Neurochem Res** 1997 Aug;22(8):1055–63

Evidence for a high molecular weight cytosolic factor that binds brain and liver metallothionein. Gasull T, et al. **Neurochem Res** 1996 Aug;21(8):969–74

Lipid peroxides are generated by the fetal rat brain after episodes of global ischemia in utero. Glozman S, et al. **Neurochem Res** 1997 Feb;22(2):201–8

Brain monoamine changes in rats after short periods of ozone exposure. González-Piña R, et al. **Neurochem Res** 1997 Jan; 22(1):63–6

Ultraviolet radiation, thiol reagents, and solubilization enhance AMPA receptor binding affinity via a common mechanism. Hall RA, et al. **Neurochem Res** 1996 Aug; 21(8):963–8

Posttranslational arginylation of brain proteins. Hallak ME, et al. **Neurochem Res** 1997 Apr;22(4):467–73 (32 ref.)

Age-related ischemia in the brain following bilateral carotid artery occlusion--collateral blood flow and brain metabolism. He Z, et al. **Neurochem Res** 1997 Jan; 22(1):37–42

Binding and labeling of omega-conotoxin GVIA in crude membranes from subfractionated fractions and various areas of chick brain. Ichida S, et al. **Neurochem Res** 1996 Jun;21(6):675–80

Inhibition of GABAA ligand-gated Cl- channels by zinc in adult rat brain: a regional study. Ito Y, et al. **Neurochem Res** 1996 Aug;21(8):955–61

Na(+)-K(+)-Cl- cotransport system in brain capillary endothelial cells: response to endothelin and hypoxia. Kawai N, et al. **Neurochem Res** 1996 Oct;21(10):1259–66

NMDA excitotoxicity and free radical generation in rat brain homogenates: application of a chemiluminescence assay. Küçükkaya B, et al. **Neurochem Res** 1996 Dec; 21(12):1535–8

Developmental analysis of factors binding to the mouse 68-kDa neurofilament promoter. Kure R, et al. **Neurochem Res** 1997 May;22(5):555–62

Phosphorylation in vivo of chick brain microtubule-associated phospholipids. Lagnado JR, et al. **Neurochem Res** 1996 Sep;21(9):1097–103

Metabolism of (-)-deprenyl and PF-(-)-deprenyl in brain after central and peripheral administration. Lajtha A, et al. **Neurochem Res** 1996 Oct;21(10):1155–60

Redox changes in perfusates following intracerebral penetration of microdialysis probes. Layton ME, et al. **Neurochem Res** 1997 Jun;22(6):735–41

Differential responsiveness of metabotropic glutamate receptors coupled to phosphoinositide hydrolysis to agonists in various brain areas of the adult rat. Lorenzini P, et al. **Neurochem Res** 1996 Mar;21(3):323–9

Degradation of Alzheimer's beta-amyloid protein by human and rat brain peptidases: involvement of insulin-degrading enzyme. McDermott JR, et al. **Neurochem Res** 1997 Jan; 22(1):49–56

The rate of turnover of cortical GABA from [1-13C]glucose is reduced in rats treated with the GABA-transaminase inhibitor vigabatrin (gamma-vinyl GABA). Manor D, et al. **Neurochem Res** 1996 Sep;21(9):1031–41

Effects of electroconvulsive stimuli and MK-801 on neuropeptide Y, neurokinin A, and calcitonin gene-related peptide in rat brain. Mathé AA, et al. **Neurochem Res** 1997 May;22(5):629–36

Metabolism of N-acetyl-L-aspartate in rat brain. Miller SL, et al. **Neurochem Res** 1996 May;21(5):615–8

Kainate receptor modification in the fetal guinea pig brain during hypoxia. Mishra OP, et al. **Neurochem Res** 1995 Oct;20(10):1171–7

Origin of cholesterol in myelin. Morell P, et al. **Neurochem Res** 1996 Apr;21(4):463–70 (31 ref.)

Age-related changes in the DNA and RNA content of the brain in spontaneously hypertensive rats. Nakane H, et al. **Neurochem Res** 1997 Mar;22(3):253–6

Age does not alter Protein kinase C isozymes mRNA expression in rat brain. Narang N, et al. **Neurochem Res** 1995 Oct;20(10):1119–26

Alteration of ryanodine receptor in the hippocampus CA1 after hemispheric cerebral ischemia. Nozaki H, et al. **Neurochem Res** 1996 Aug;21(8):975–82

Differentiation by magnesium ions of affinities of nuclear proteins for consensus core nucleotide element of the transcription factor c-Myc in murine brain. Ogita K, et al. **Neurochem Res** 1996 Feb;21(2):201–9

Lipid peroxidation and antioxidant systems in rat brain: effect of chronic alcohol consumption. Omodeo-Sale F, et al. **Neurochem Res** 1997 May;22(5):577–82

Loss of [3H]kainate and of NMDA-displaceable [3H]glutamate binding sites in brain in thiamine deficiency: results of a quantitative autoradiographic study. Peterson C, et al. **Neurochem Res** 1995 Oct;20(10):1155–60

Effects of an inhibitor of adenosine deaminase, deoxycoformycin, and of nucleoside transport, propentofylline, on post-ischemic recovery of adenine nucleotides in rat brain. Phillis JW, et al. **Neurochem Res** 1996 Mar;21(3):347–53

Regional distribution of binding sites for the nitric oxide synthase inhibitor L-[3H]nitroarginine in rat brain. Rao VL, et al. **Neurochem Res** 1996 Mar;21(3):355–9

ATP-induced oscillations of cytosolic Ca2+ activity in cultured astrocytes from rat brain are modulated by medium osmolarity indicating a control of [Ca2+]i oscillations by cell volume. Reetz G, et al. **Neurochem Res** 1997 May;22(5):621–8

Nigericin-induced Na+/H+ and K+/H+ exchange in synaptosomes: effect on [3H]GABA release. Rodríguez R, et al. **Neurochem Res** 1996 Aug;21(8):889–95

Effect of guanine nucleotides on [3H]glutamate binding and on adenylate cyclase activity in rat brain membranes. Rubin MA, et al. **Neurochem Res** 1997 Feb;22(2):181–7

Serotonergic activity of HP 184: does spontaneous release have a role? Smith CP, et al. **Neurochem Res** 1996 May; 21(5):575–83

Postresuscitation changes in brain free radical-mediated processes and nitric oxide synthase activity in rats: effects of individual behavior in "emotional resonance" test. Stepanichev MYu, et al. **Neurochem Res** 1997 Jun; 22(6):743–52

Myelin basic protein is a zinc-binding protein in brain: possible role in myelin compaction. Tsang D, et al. **Neurochem Res** 1997 Jul;22(7):811–9

Free radical scavenging activity of the Japanese herbal medicine toki-shakuyaku-san (TJ-23) and its effect on superoxide dismutase activity, lipid peroxides, glutamate, and monoamine metabolites in aged rat brain. Ueda Y, et al. **Neurochem Res** 1996 Aug;21(8):909–14

Upregulation of (+)-7-hydroxy-N,N-di-n-[3H]propyl-2-aminotetralin binding following intracerebroventricular administration of a nitric oxide generator. Wallace DR, et al. **Neurochem Res** 1997 Feb;22(2):163–70

Neurotransmitter receptor/G-protein mediated signal transduction in Alzheimer's disease brain. Cowburn RF, et al. **Neurodegeneration** 1996 Dec;5(4):483–8 (37 ref.)

Region- and neurotransmitter-dependent species and strain differences in DSP-4-induced monoamine depletion in rodents. Fornai F, et al. **Neurodegeneration** 1996 Sep; 5(3):241–9

Neurochemical studies of Alzheimer's disease. Palmer AM. **Neurodegeneration** 1996 Dec;5(4):381–91 (80 ref.)

Neurochemical correlates of dementia. Procter AW. **Neurodegeneration** 1996 Dec;5(4):403–7 (39 ref.)

Brain energy metabolism, cognitive function and down-regulated oxidative phosphorylation in Alzheimer disease. Rapoport SI, et al. **Neurodegeneration** 1996 Dec; 5(4):473–6 (27 ref.)

Effect of stress on mouse and rat brain metallothionein I and III mRNA levels. Belloso E, et al. **Neuroendocrinology** 1996 Dec;64(6):430–9

Regulation of estrogen receptor concentrations in the rat brain: effects of sustained androgen and estrogen exposure. Brown TJ, et al. **Neuroendocrinology** 1996 Jan;63(1):53–60

Expression of the putative transcription factor NOR-1 in the nervous, the endocrine and the immune systems and the developing brain of the rat. Maruyama K, et al. **Neuroendocrinology** 1997 Jan;65(1):2–8

Modulation of a novel RNA in brain neurons by glucocorticoid and mineralocorticoid receptors. Masters JN, et al. **Neuroendocrinology** 1996 Jan;63(1):28–38

Influence of the estrous cycle on c-fos and CRH gene transcription in the brain of endotoxin-challenged female rats. Nappi RE, et al. **Neuroendocrinology** 1997 Jan; 65(1):29–46

Electroconvulsive seizures increase levels of PS4, the TRH-enhancing peptide [prepro-TRH(160–169)], in rat brain. Pekary AE, et al. **Neuroendocrinology** 1997 May; 65(5):377–84

Differential effects of three acute stressors on the serotonin 5-HT1A receptor system in rat brain. Raghupathi RK, et al. **Neuroendocrinology** 1997 Apr;65(4):246–58

Neuronal expression of tumor necrosis factor alpha in the

murine brain. Gahring LC, et al. **Neuroimmunomodulation** 1996 Sep-Oct;3(5):289-303

Expression of NK-1 receptor mRNA in murine T lymphocytes. McCormack RJ, et al. **Neuroimmunomodulation** 1996 Jan-Feb;3(1):35-46

Detection of interleukin-1 bioactivity in various brain regions of normal healthy rats. Quan N, et al. **Neuroimmunomodulation** 1996 Jan-Feb;3(1):47-55

Age-related reciprocal modulation of interleukin-1beta and interleukin-1 receptors in the mouse brain-endocrine-immune axis. Takao T, et al. **Neuroimmunomodulation** 1996 Jul-Aug;3(4):205-12

Clinical pharmacokinetics of carbamazepine and valproate in children and adolescents with epilepsy. Galas-Zgorzalewicz B, et al. **Neurol Neurochir Pol** 1996; 30 Suppl 2:49-54

Effects of hyperosmolar mannitol on regional oxygen supply and consumption in the newborn pig. Anwar M, et al. **Neurol Res** 1997 Apr;19(2):204-10

Central nervous system distribution of fibroblast growth factor injected into the blood stream. Cuevas P, et al. **Neurol Res** 1996 Jun;18(3):267-72

Dynamic changes of cerebral oxygenation measured by brain tissue oxygen pressure and near infrared spectroscopy. Holzschuh M, et al. **Neurol Res** 1997 Jun;19(3):246-8

Fasudil (HA1077), an intracellular calcium antagonist, improves neurological deficits and tissue potassium loss in focal cerebral ischemia in gerbils. Kondoh Y, et al. **Neurol Res** 1997 Apr;19(2):211-5

Assessment of cerebral blood flow and metabolism in vertebrobasilar insufficiency with 133Xenon and 15O inhalation methods. Nighoghossian N, et al. **Neurol Res** 1997 Apr;19(2):165-8

The metabolic anatomy of Tourette's syndrome. Eidelberg D, et al. **Neurology** 1997 Apr;48(4):927-34

Human brain GABA levels rise rapidly after initiation of vigabatrin therapy. Petroff OA, et al. **Neurology** 1996 Dec; 47(6):1567-71

Ictal motor signs and interictal regional cerebral hypometabolism. Schlaug G, et al. **Neurology** 1997 Aug; 49(2):341-50

Cortical and subcortical chemical pathology in Alzheimer's disease as assessed by multislice proton magnetic resonance spectroscopic imaging. Tedeschi G, et al. **Neurology** 1996 Sep;47(3):696-704

Celiac disease with cerebral calcium and silica deposits: x-ray spectroscopic findings, an autopsy study. Toti P, et al. **Neurology** 1996 Apr;46(4):1088-92

Dopaminergic function in patients with posttraumatic parkinsonism: an 18F-dopa PET study. Turjanski N, et al. **Neurology** 1997 Jul;49(1):183-9

Cerebral metabolic differences between the severe and critical hypoperfused brain. van der Grond J, et al. **Neurology** 1996 Aug;47(2):399-404

Specific tau variants in the brains of patients with myotonic dystrophy. Vermersch P, et al. **Neurology** 1996 Sep; 47(3):711-7

The mammalian brain rsec6/8 complex. Hsu SC, et al. **Neuron** 1996 Dec;17(6):1209-19

Identification of functionally distinct isoforms of the N-type Ca2+ channel in rat sympathetic ganglia and brain. Lin Z, et al. **Neuron** 1997 Jan;18(1):153-66

Paranodin, a glycoprotein of neuronal paranodal membranes. Menegoz M, et al. **Neuron** 1997 Aug;19(2):319-31

Prion protein immunocytochemistry--UK five centre consensus report. Bell JE, et al. **Neuropathol Appl Neurobiol** 1997 Feb;23(1):26-35

Purine and pyridine nucleotide metabolism in the erythrocytes of patients with Rett syndrome. Rocchigiani M, et al. **Neuropediatrics** 1995 Dec;26(6):288-92

Preprotachykinin A and cholecystokinin mRNAs in tenascin-gene knockout mouse brain. Fukamauchi F, et al. **Neuropeptides** 1997 Apr;31(2):199-201

Preprothyrotropin-releasing hormone mRNA in the rat central gray is strongly and persistently induced during morphine withdrawal. Gahn LG, et al. **Neuropeptides** 1996 Jun;30(3):207-12

The effects of single and repeated morphine administration on the level of thyrotropin-releasing hormone and its receptors in the rat brain. Jaworska-Feil L, et al. **Neuropeptides** 1995 Dec;29(6):343-9

Opioid binding profile of morphiceptin, Tyr-MIF-1 and dynorphin-related peptides in rat brain membranes. Sartania N, et al. **Neuropeptides** 1996 Jun;30(3):225-30

Effect of p-chlorophenylalanine at moderate dosage on 5-HT and 5-HIAA concentrations in brain regions of control and p-chloroamphetamine treated rats. Datla KP, et al. **Neuropharmacology** 1996 Mar;35(3):315-20

[3H]raclopride binding to brain tissue from subjects with schizophrenia: methodological aspects. Dean B, et al. **Neuropharmacology** 1997 Jun;36(6):779-86

The protective action of tetrodotoxin and (+/-)-kavain on anaerobic glycolysis, ATP content and intracellular Na+ and Ca2+ of anoxic brain vesicles. Gleitz J, et al. **Neuropharmacology** 1996;35(12):1743-52

Anticonvulsant activity of novel derivatives of 2- and 3-piperidinecarboxylic acid in mice and rats. Hinko CN, et al. **Neuropharmacology** 1996;35(12):1721-35

SB 242084, a selective and brain penetrant 5-HT2C receptor antagonist. Kennett GA, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):609-20

Effects of chronic treatment with haloperidol on [3H]PK 11195 binding in the rat brain and peripheral tissues. Kurumaji A, et al. **Neuropharmacology** 1996;35(8):1075-9

Chronic treatment with antipsychotic drugs does not alter G protein alpha or beta subunit levels in rat brain. Meller E, et al. **Neuropharmacology** 1996;35(12):1785-91

Chronic electroconvulsive shock enhances 5-HT2 receptor-mediated head shakes but not brain C-fos induction. Moorman JM, et al. **Neuropharmacology** 1996 Mar;35(3):303-13

Autoradiographic localization of 5-CT-insensitive 5-HT1-like recognition sites in guinea pig and rat brain. Stanton JA, et al. **Neuropharmacology** 1996 Feb;35(2):223-9

Human metabotropic glutamate receptor 1: mRNA distribution, chromosome localization and functional expression of two splice variants. Stephan D, et al. **Neuropharmacology** 1996;35(12):1649-60

TNF alpha mimics the endocrine but not the thermoregulatory responses of bacterial lipopolysaccharide (LPS): correlation with FOS-expression in the brain. Tolchard S, et al. **Neuropharmacology** 1996 Mar;35(3):243-8

Distribution of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin in regional brain areas of inbred strains of rats and mice with different alcohol preferences. Yoshimoto K, et al. **Neuropsychobiology** 1996;33(2):85-9

Cerebral metabolism of imipramine and a purified flavin-containing monooxygenase from human brain. Bhagwat SV, et al. **Neuropsychopharmacology** 1996 Aug; 15(2):133-42

5-HT1A and 5-HT2A receptor mRNAs and binding site densities are differentially altered in schizophrenia. Burnet PW, et al. **Neuropsychopharmacology** 1996 Nov; 15(5):442-55

Increase in AP-1 transcription factor DNA binding activity by valproic acid. Chen G, et al. **Neuropsychopharmacology** 1997 Mar;16(3):238-45

Role of endogenous morphine in the attenuation of opiate withdrawal syndrome by N-acetylmuramyl-L-alanine-D-isoglutamine (MDP). Munjal ID, et al. **Neuropsychopharmacology** 1996 Jul; 15(1):99-103

The effect of streptozotocin-induced diabetes on dopamine2, serotonin1A and serotonin2A receptors in the rat brain. Sumiyoshi T, et al. **Neuropsychopharmacology** 1997 Mar; 16(3):183-90

Vulnerability to tardive dyskinesia development in schizophrenia: an FDG-PET study of cerebral metabolism. Szymanski S, et al. **Neuropsychopharmacology** 1996 Dec; 15(6):567-75

Cocaine uptake is decreased in the brain of detoxified cocaine abusers. Volkow ND, et al. **Neuropsychopharmacology** 1996 Mar;14(3):159-68

Localised proton MR spectroscopy of brain metabolism changes in vegetative patients. Ricci R, et al. **Neuroradiology** 1997 May;39(5):313-9

Sleep deprivation increases brain serotonin turnover in the rat. Asikainen M, et al. **Neuroreport** 1997 May 6; 8(7):1577-82

[U-13C]glutamate metabolism in rat brain mitochondria reveals malic enzyme activity. Bakken IJ, et al. **Neuroreport** 1997 May 6;8(7):1567-70

Neurofilament architecture of superior and mesial premotor cortex in the human brain. Baleydier C, et al. **Neuroreport** 1997 May 6;8(7):1691-6

Expression of apolipoprotein E in normal and diverse neurodegenerative disease brain. Bao F, et al. **Neuroreport** 1996 Jul 29;7(11):1733-9

Regional and cellular presenilin 2 (STM2) gene expression in the human brain. Boissière F, et al. **Neuroreport** 1996 Aug 12;7(12):2021-5

Memory-related changes of nitric oxide synthase activity and nitrite level in rat brain. Chen J, et al. **Neuroreport** 1997 May 6;8(7):1771-4

Injury induces presenilin-1 gene expression in mouse brain. Cribbs DH, et al. **Neuroreport** 1996 Jul 29;7(11):1773-6

Regulation of neuronal nitric oxide synthase mRNA levels in rat brain by seizure activity. Elmér E, et al. **Neuroreport** 1996 May 17;7(7):1335-9

Activated human microglia produce the excitotoxin quinolinic acid. Espey MG, et al. **Neuroreport** 1997 Jan 20;8(2):431-4

Differential expression of the GABAA receptor alpha 1 subunit in developing chicken brain. Fan SS, et al. **Neuroreport** 1997 Jul 7;8(9-10):2399-404

Diurnal variation of TNF alpha in the rat brain. Floyd RA, et al. **Neuroreport** 1997 Mar 3;8(4):915-8

Metabolism of agmatine into urea but not into nitric oxide in rat brain. Gilad GM, et al. **Neuroreport** 1996 Jul 29; 7(11):1730-2

Processing of presenilin 1 in brains of patients with Alzheimer's disease and controls. Hendriks L, et al. **Neuroreport** 1997 May 6;8(7):1717-21

Regional cerebral glucose utilization is modulated by the dosage of apolipoprotein E type 4 allele and alpha1-antichymotrypsin type A allele in Alzheimer's disease. Higuchi M, et al. **Neuroreport** 1997 Aug 18; 8(12):2639-43

Facilitated brain uptake of 4-chlorokynurenine and conversion to 7-chlorokynurenic acid. Hokari M, et al. **Neuroreport** 1996 Dec 20;8(1):15-8

Upregulation of leptin receptor mRNA expression in obese mouse brain. Huang XF, et al. **Neuroreport** 1997 Mar 3; 8(4):1035-8

Localization of leptin receptor mRNA expression in mouse brain. Huang XF, et al. **Neuroreport** 1996 Nov 4; 7(15-17):2635-8

NMDA receptor mRNA correlation with antemortem cognitive impairment in schizophrenia. Humphries C, et al. **Neuroreport** 1996 Aug 12;7(12):2051-5

Characterization and expression of presenilin 1 in mouse brain. Huynh DP, et al. **Neuroreport** 1996 Nov 4; 7(15-17):2423-8

Expression and distribution of CC chemokine macrophage inflammatory protein-1 alpha/LD78 in the human brain. Ishizuka K, et al. **Neuroreport** 1997 Mar 24;8(5):1215-8

Age-related changes in the expression of Alzheimer's beta APP in the brain of senescence accelerated mouse (SAM)-P/10. Jeong SJ, et al. **Neuroreport** 1997 May 6; 8(7):1733-7

Focal ischemia induces expression of the DNA damage-inducible gene GADD45 in the rat brain. Jin K, et al. **Neuroreport** 1996 Jul 29;7(11):1797-802

Increased cerebral choline-compounds in Duchenne muscular dystrophy. Kato T, et al. **Neuroreport** 1997 Apr 14;8(6):1435-7

Evidence of reduced DNA repair in amyotrophic lateral sclerosis brain tissue. Kisby GE, et al. **Neuroreport** 1997 Apr 14;8(6):1337-40

D2-type dopamine receptors in postmortem human brain sections from normal and schizophrenic subjects. Lahti RA, et al. **Neuroreport** 1996 Aug 12;7(12):1945-8

Presence of glutathione immunoreactivity in cultured neurones and astrocytes. Langeveld CH, et al. **Neuroreport** 1996 Jul 29;7(11):1833-6

Interleukin-15 gene expression in human astrocytes and microglia in culture. Lee YB, et al. **Neuroreport** 1996 Apr 10;7(5):1062-6

Differential co-expression of nicotinic acetylcholine receptor alpha 4 and beta 2 subunit genes in various regions of rat brain. Liu C, et al. **Neuroreport** 1996 Jul 8;7(10):1645-9

Glycerol as a marker for post-traumatic membrane phospholipid degradation in rat brain. Marklund N, et al. **Neuroreport** 1997 Apr 14;8(6):1457-61

A thrombin cleavage fragment of apolipoprotein E exhibits isoform-specific neurotoxicity. Marques MA, et al. **Neuroreport** 1996 Nov 4;7(15-17):2529-32

Ubiquitin (Ub) interacts non-covalently with Alzheimer amyloid precursor protein (betaPP): isolation of Ub-betaPP conjugates from brain extracts. Master E, et al. **Neuroreport** 1997 Aug 18;8(12):2781-6

Cingulate function in depression: a potential predictor of treatment response. Mayberg HS, et al. **Neuroreport** 1997 Mar 3;8(4):1057-61

Stat1 in developing and adult rat brain. Induction after transient focal ischemia. Planas AM, et al. **Neuroreport** 1997 Apr 14;8(6):1359-62

Evidence of blood-brain barrier permeability/leakage for circulating human Alzheimer's beta-amyloid-(1-42)-peptide. Pluta R, et al. **Neuroreport** 1996 May 17;7(7):1261-5

Localization of presenilin-1 mRNA in rat brain. Quarteronet D, et al. **Neuroreport** 1996 Nov 4;7(15-17):2587-91

Flip and flop isoforms of chick brain AMPA receptor subunits: cloning and analysis of expression patterns. Ravindranathan A, et al. **Neuroreport** 1996 Nov 4; 7(15-17):2707-11

Regulation of beta- and gamma-actin mRNA by thyroid hormone in the developing rat brain. Sarkar S, et al. **Neuroreport** 1997 Mar 24;8(5):1267-71

Brain glucose: voltammetric determination in normal and hyperglycaemic rats using a glucose microsensor. Shram NF, et al. **Neuroreport** 1997 Mar 24;8(5):1109-12

Identification of opioid receptor-like (ORL1) peptide-stimulated [35S]GTP gamma S binding in rat brain. Sim LJ, et al. **Neuroreport** 1996 Feb 29;7(3):729-33

Dopamine antagonist and 'binge' cocaine effects on rat opioid and dopamine transporter mRNAs. Spangler R, et al. **Neuroreport** 1996 Sep 2;7(13):2196-200

Reduction of vesicular acetylcholine transporter mRNA in the rat septum following lead exposure. Sun X, et al. **Neuroreport** 1997 Mar 3;8(4):891-4

Is amyloid beta-protein glycated in Alzheimer's disease? Tabaton M, et al. **Neuroreport** 1997 Mar 3;8(4):907-9

Sex differences in nitrite/nitrate levels and antioxidant defense in rat brain. Taskiran D, et al. **Neuroreport** 1997 Mar 3;8(4):881-4

[3H]YM-09151-2 (nemonapride), a potent radioligand for both sigma 1 and sigma 2 receptor subtypes. Ujike H, et al. **Neuroreport** 1996 Apr 10;7(5):1057-61

Expression of SKP1 mRNA and protein in rat brain during postnatal development. Uro-Coste E, et al. **Neuroreport** 1997 May 6;8(7):1675-8

Vasoactive intestinal polypeptide-like immunoreactivity in astrocytes of the human brain. Virgintino D, et al. **Neuroreport** 1996 Jul 8;7(10):1577-81

Increased dopamine activity associated with stuttering. Wu JC, et al. **Neuroreport** 1997 Feb 10;8(3):767-70

Presenilin 1 interaction in the brain with a novel member of the Armadillo family. Zhou J, et al. **Neuroreport** 1997 Apr 14;8(6):1489-94

Biochemical correlates of individual behavior. Gulyaeva NV, et al. **Neurosci Behav Physiol** 1997 Jul-Aug;27(4):462-9 (50 ref.)

Widespread increase in brain protein synthesis following acute immobilization stress in adult rat brain. Baubet V,

et al. **Neurosci Lett** 1996 Nov 29;219(3):187–90

Increase in levels of total free fatty acids in rat brain regions following 3–nitropropionic acid administration. Binienda Z, et al. **Neurosci Lett** 1997 Jul 25;230(3):199–201

Choroid plexus: the major site of mRNA expression for the beta–trace protein (prostaglandin D synthase) in human brain. Blödorn B, et al. **Neurosci Lett** 1996 May 10; 209(2):117–20

Possible role of the choroid plexus in the supply of brain tissue with polyunsaturated fatty acids. Bourre JM, et al. **Neurosci Lett** 1997 Mar 7;224(1):1–4

Human APOE protein localized in brains of transgenic mice. Bowman BH, et al. **Neurosci Lett** 1996 Nov 15;219(1):57–9

Involvement of sphingolipids in the endothelin–1 signal transduction mechanism in rat brain. Catalán RE, et al. **Neurosci Lett** 1996 Dec 13;220(2):121–4

Expression of dendritic BC200 RNA, component of a 11.4S ribonucleoprotein particle, is conserved in humans and simians [published erratum appears in Neurosci Lett 1997 May 30;228(1):69] Cheng JG, et al. **Neurosci Lett** 1997 Mar 21;224(3):206–10

Middle cerebral artery occlusion alters neurotransmitter activities in ipsilateral and contralateral rat brain regions: an ex vivo voltammetric study. Crespi F, et al. **Neurosci Lett** 1997 Jul 18;230(2):77–80

Modulation of cerebral calcium homeostasis in rats by angiotensin II in vivo. Das N, et al. **Neurosci Lett** 1997 Feb 28;223(3):149–52

Characterisation of the furanocoumarin phellopterin as a rat brain benzodiazepine receptor partial agonist in vitro. Dekermendjian K, et al. **Neurosci Lett** 1996 Nov 29; 219(3):151–4

Age–related decreases in mRNA for brain nuclear receptors and target genes are reversed by retinoic acid treatment. Enderlin V, et al. **Neurosci Lett** 1997 Jun 27;229(2):125–9

Melatonin and vitamin E limit nitric oxide–induced lipid peroxidation in rat brain homogenates. Escames G, et al. **Neurosci Lett** 1997 Jul 25;230(3):147–50

Pathological lesions of Alzheimer's disease and dementia with Lewy bodies brains exhibit immunoreactivity to an ATPase that is a regulatory subunit of the 26S proteasome. Fergusson J, et al. **Neurosci Lett** 1996 Nov 29;219(3):167–70

Rabbit brain and muscle isoforms containing the carboxy–terminal domain of 427 kDa skeletal muscle dystrophin exhibit similar biochemical properties. Finn DM, et al. **Neurosci Lett** 1997 Jan 24;222(1):25–8

Autoradiographic localization of [3H]nociceptin binding sites from telencephalic to mesencephalic regions of the mouse brain. Florin S, et al. **Neurosci Lett** 1997 Jul 11;230(1):33–6

[125I][Tyr14]Orphanin binding to rat brain: evidence for labelling the opioid–receptor–like 1 (ORL1). Foddi MC, et al. **Neurosci Lett** 1997 Jul 18;230(2):105–8

Modification of the N–methyl–D–aspartate (NMDA) receptor in the brain of newborn piglets following hyperventilation induced ischemia. Graham EM, et al. **Neurosci Lett** 1996 Oct 25;218(1):29–32

C–Fos proteins are not involved in the activation of preproenkephalin gene expression in rat brain by peripheral electric stimulation (electroacupuncture). Guo HF, et al. **Neurosci Lett** 1996 Apr 5;207(3):163–6

Effects of heparin on the properties of solubilized and reconstituted rat brain AMPA receptors. Hall RA, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):179–83

A comparative study of L–type voltage sensitive Ca2+ channels in rat brain regions and cultured neuronal cells. Hirota K, et al. **Neurosci Lett** 1997 Feb 28;223(3):169–72

Effects of phencyclidine metabolites on serotonin uptake in rat brain. Hori T, et al. **Neurosci Lett** 1996 May 17; 209(3):153–6

Circadian rhythms in vitamin B12 content of the rat brain. Ikeda M, et al. **Neurosci Lett** 1997 Jun 6;228(2):131–4

Increased A beta 42(43)–plaque deposition in early–onset familial Alzheimer's disease brains with the deletion of exon 9 and the missense point mutation (H163R) in the PS–1 gene. Ishii K, et al. **Neurosci Lett** 1997 May 30;228(1):17–20

Developmental changes in endothelin A and endothelin B receptor subtypes in embryonic chick brains. Jeng AY, et al. **Neurosci Lett** 1996 Apr 26;208(3):208–10

Putrescine modulation of depolarization–induced [3H]serotonin release from fish brain synaptosomes. Khan NA, et al. **Neurosci Lett** 1996 Jul 5;212(1):45–8

Age–related changes in the regulation of transcription factor NF–kappa B in rat brain. Korhonen P, et al. **Neurosci Lett** 1997 Mar 28;225(1):61–4

Different preferences in the utilization of amino acids for glutathione synthesis in cultured neurons and astroglial cells derived from rat brain. Kranich O, et al. **Neurosci Lett** 1996 Nov 29;219(3):211–4

Evidence that glucose metabolism is decreased in the cerebrum of aged female senescence–accelerated mouse; possible involvement of a low hexokinase activity. Kurokawa T, et al. **Neurosci Lett** 1996 Aug 16;214(1):45–8

Identification of central 5–HT and 5–HT1A receptors in the turtle brain (Chrysemys picta). Larson–Prior LJ, et al. **Neurosci Lett** 1996 Jul 12;212(2):79–82

Neuronal expression of leukemia inhibitory factor (LIF) in the rat brain. Lemke R, et al. **Neurosci Lett** 1996 Sep 13; 215(3):205–8

Evidence for local production of acute phase response apolipoprotein serum amyloid A in Alzheimer's disease brain. Liang JS, et al. **Neurosci Lett** 1997 Apr 4;225(2):73–6

Low stringency hybridization study of the dopamine D4 receptor revealed D4–like mRNA distribution of the orphan seven–transmembrane receptor, APJ, in human brain. Matsumoto M, et al. **Neurosci Lett** 1996 Nov 22; 219(2):119–22

Histochemistry in rat brain and spinal cord with an antibody directed at the cholecystokininA receptor. Mercer LD, et al. **Neurosci Lett** 1997 Apr 4;225(2):97–100

Glycosylation of cholinesterase forms in brain from normal and dystrophic Lama2dy mice. Moral–Naranjo MT, et al. **Neurosci Lett** 1997 Apr 18;226(1):45–8

A novel enzyme enantio–selectively synthesizes (R)salsolinol, a precursor of a dopaminergic neurotoxin, N–methyl(R)salsolinol. Naoi M, et al. **Neurosci Lett** 1996 Jul 19;212(3):183–6

Administration of corticosterone alters intracellular localization of brain–derived neurotrophic factor–like immunoreactivity in the rat brain. Nitta A, et al. **Neurosci Lett** 1997 Apr 25;226(2):115–8

Relationship of impaired brain glucose metabolism to learning deficit in the senescence–accelerated mouse. Ohta H, et al. **Neurosci Lett** 1996 Oct 11;217(1):37–40

Amino– and carboxyl–terminal heterogeneity of beta–amyloid peptides deposited in human brain. Saido TC, et al. **Neurosci Lett** 1996 Sep 13;215(3):173–6

Neuronal injury in experimental status epilepticus in the rat: role of acidosis. Sasahira M, et al. **Neurosci Lett** 1997 Mar 21;224(3):177–80

Similar deficits of central histaminergic system in patients with Down syndrome and Alzheimer disease. Schneider C, et al. **Neurosci Lett** 1997 Feb 7;222(3):183–6

Effects of indomethacin on cerebral blood flow and oxygen metabolism: a positron emission tomographic investigation in the anaesthetized baboon. Schumann P, et al. **Neurosci Lett** 1996 Dec 13;220(2):137–41

Expression of cathepsin D during the progression of human gliomas. Sivaparvathi M, et al. **Neurosci Lett** 1996 Apr 26;208(3):171–4

Induction of interleukin–1 beta and interleukin–1 receptor antagonist mRNA by chronic treatment with various psychotropics in widespread area of rat brain. Suzuki E, et al. **Neurosci Lett** 1996 Sep 13;215(3):201–4

Widespread neuronal expression of c–Fos throughout the brain and local expression in glia following a hippocampal injury. Tchélingérian JL, et al. **Neurosci Lett** 1997 May 2;226(3):175–8

Expression of 5–HT7 receptor mRNA in rat brain during postnatal development. Vizuete ML, et al. **Neurosci Lett** 1997 May 9;227(1):53–6

Non–rapid eye movement sleep is suppressed in transgenic mice with a deficiency in the somatotropic system. Zhang J, et al. **Neurosci Lett** 1996 Dec 13;220(2):97–100

Changes in the expression of novel Cdk5 activator messenger RNA (p39nck5ai mRNA) during rat brain development. Cai XH, et al. **Neurosci Res** 1997 Aug;28(4):355–60

Unilateral eyeball enucleation differentially alters AMPA–, NMDA– and kainate glutamate receptor binding in the newborn rat brain. Kiyosawa M, et al. **Neurosci Res** 1996 Nov;26(3):215–24

Localization and gene expression of the receptor for pituitary adenylate cyclase–activating polypeptide in the rat brain. Shioda S, et al. **Neurosci Res** 1997 Aug;28(4):345–54

Immobilization stress reduced the expression of neurotrophins and their receptors in the rat brain. Ueyama T, et al. **Neurosci Res** 1997 Jun;28(2):103–10

Distinct distributions of alpha–amino–3–hydroxy–5–methyl–4–isoxazolepropionate (AMPA) receptor subunits and a related 53,000 M(R) antigen (GR53) in brain tissue. Bahr BA, et al. **Neuroscience** 1996 Oct;74(3):707–21

Long–term expression of the 35,000 mol. wt fos–related antigen in rat brain after kainic acid treatment. Bing G, et al. **Neuroscience** 1996 Aug;73(4):1159–74

C–Fos immunohistochemical localization of neurons in the mesencephalic locomotor region in the rat brain. Brudzynski SM, et al. **Neuroscience** 1996 Dec;75(3):793–803

mCD24 expression in the developing mouse brain and in zones of secondary neurogenesis in the adult. Calaora V, et al. **Neuroscience** 1996 Jul;73(2):581–94

Localization of the messenger RNA for the c–Jun NH2–terminal kinase kinase in the adult and developing rat brain: an in situ hybridization study. Carboni L, et al. **Neuroscience** 1997 Sep;80(1):147–60

Regional distribution of iron, transferrin, ferritin, and oxidatively–modified proteins in young and aged Fischer 344 rat brains. Focht SJ, et al. **Neuroscience** 1997 Jul; 79(1):255–61

Differential distribution of neuropeptide Y Y1 and Y2 receptors in rat and guinea–pig brains. Gehlert DR, et al. **Neuroscience** 1997 Jan;76(1):215–24

Rapid distribution of intraventricularly administered sucrose into cerebrospinal fluid cisterns via subarachnoid velae in rat. Ghersi–Egea JF, et al. **Neuroscience** 1996 Dec; 75(4):1271–88

Characterization of the rat hippocalcin gene: the 5' flanking region directs expression to the hippocampus. Grant AL, et al. **Neuroscience** 1996 Dec;75(4):1099–115

Distribution of the messenger RNA for the extracellularly regulated kinases 1, 2 and 3 in rat brain: effects of excitotoxic hippocampal lesions. Hollister RD, et al. **Neuroscience** 1997 Aug;79(4):1111–9

Differential messenger RNA expression of prodynorphin and proenkephalin in the human brain. Hurd YL. **Neuroscience** 1996 Jun;72(3):767–83

Characterization of neuropeptide Y receptor subtypes in the normal human brain, including the hypothalamus. Jacques D, et al. **Neuroscience** 1997 Jul;79(1):129–48

Distribution and postnatal ontogeny of adenosine A2A receptors in rat brain: comparison with dopamine receptors. Johansson B, et al. **Neuroscience** 1997 Oct;80(4):1187–207

Ionotropic glutamate receptor subtypes in the aged memory–impaired and unimpaired Long–Evans rat. Le Jeune H, et al. **Neuroscience** 1996 Sep;74(2):349–63

Induction of glucose–regulated protein (glucose–regulated protein 78/BiP and glucose–regulated protein 94) and heat shock protein 70 transcripts in the immature rat brain following status epilepticus. Little E, et al. **Neuroscience** 1996 Nov;75(1):209–19

Embryonic expression pattern of H218, a G–protein coupled receptor homolog, suggests roles in early mammalian nervous system development. Maclennan AJ, et al. **Neuroscience** 1997 Jul;79(1):217–24

Alterations in synaptosomal calcium concentrations after rapid eye movement sleep deprivation in rats. Mallick BN, et al. **Neuroscience** 1996 Dec;75(3):729–36

Ischemic damage and subsequent proliferation of oligodendrocytes in focal cerebral ischemia. Mandai K, et al. **Neuroscience** 1997 Apr;77(3):849–61

Inescapable stress enhances extracellular acetylcholine in the rat hippocampus and prefrontal cortex but not the nucleus accumbens or amygdala. Mark GP, et al. **Neuroscience** 1996 Oct;74(3):767–74

Hypoxia decreases opioid delta receptor expression in mouse brain. Mayfield KP, et al. **Neuroscience** 1996 Jun; 72(3):785–9

Determination of NADH in the rat brain during sleep–wake states with an optic fibre sensor and time–resolved fluorescence procedures. Mottin S, et al. **Neuroscience** 1997 Aug;79(3):683–93

Status of somatostatin receptor messenger RNAs and binding sites in rat brain during kindling epileptogenesis. Piwko C, et al. **Neuroscience** 1996 Dec;75(3):857–68

Distribution of glycine–immunoreactive cell bodies and fibers in the rat brain. Rampon C, et al. **Neuroscience** 1996 Dec; 75(3):737–55

The messenger RNAs for the N–methyl–D–aspartate receptor subunits show region–specific expression of different subunit composition in the human brain. Rigby M, et al. **Neuroscience** 1996 Jul;73(2):429–47

Immunohistochemical mapping of brain triiodothyronine reveals prominent localization in central noradrenergic systems. Rozanov CB, et al. **Neuroscience** 1996 Oct; 74(3):897–915

Galanin messenger RNA during postnatal development of the rat brain: expression patterns in Purkinje cells differentiate anterior and posterior lobes of cerebellum. Ryan MC, et al. **Neuroscience** 1997 Jun;78(4):1113–27

Localization of preprogalanin messenger RNA in rat brain: identification of transcripts in a subpopulation of cerebellar Purkinje cells. Ryan MC, et al. **Neuroscience** 1996 Feb; 70(3):709–28

Differential cellular distribution and dynamics of HSP70, cyclooxygenase–2, and c–Fos in the rat brain after transient focal ischemia or kainic acid. Sanz O, et al. **Neuroscience** 1997 Sep;80(1):221–32

Immunohistochemical localization of the somatostatin SST2(A) receptor in the rat brain and spinal cord. Schindler M, et al. **Neuroscience** 1997 Jan;76(1):225–40

Comparative study of the pattern of expression of calmodulin messenger RNAs in the mouse brain. Solà C, et al. **Neuroscience** 1996 Nov;75(1):245–56

Co–localization of secretoneurin immunoreactivity and macrophage infiltration in the lesions of experimental autoimmune encephalomyelitis. Storch MK, et al. **Neuroscience** 1996 Apr;71(3):885–93

Cellular expression of adenosine A2A receptor messenger RNA in the rat central nervous system with special reference to dopamine innervated areas. Svenningsson P, et al. **Neuroscience** 1997 Oct;80(4):1171–85

Increased level of neurokinin–1 tachykinin receptor gene expression during early postnatal development of rat brain. Taoka M, et al. **Neuroscience** 1996 Oct;74(3):845–53

Localization and developmental changes in the neuron–specific cyclin–dependent kinase 5 activator (p35nck5a) in the rat brain. Tomizawa K, et al. **Neuroscience** 1996 Sep;74(2):519–29

Expression of alpha 2–adrenergic receptor subtypes in the mouse brain: evaluation of spatial and temporal information imparted by 3 kb of 5' regulatory sequence for the alpha 2A AR–receptor gene in transgenic animals. Wang R, et al. **Neuroscience** 1996 Sep;74(1):199–218

Expression of alpha 2 adrenoceptors during rat brain development--I. Alpha 2A messenger RNA expression. Winzer–Serhan UH, et al. **Neuroscience** 1997 Jan; 76(1):241–60

Expression of alpha 2 adrenoceptors during rat brain development--II. Alpha 2C messenger RNA expression and [3H]rauwolscine binding. Winzer–Serhan UH, et al. **Neuroscience** 1997 Jan;76(1):261–72

State–dependent inhibition of Na+ currents by the neuroprotective agent 619C89 in rat hippocampal neurons and in a mammalian cell line expressing rat brain type IIA Na+ channels. Xie XM, et al. **Neuroscience** 1996 Aug; 73(4):951–62

Interaction of neuromelanin and iron in substantia nigra and

other areas of human brain. Zecca L, et al. **Neuroscience** 1996 Jul;73(2):407–15

Aminopeptidase A: distribution in rat brain nuclei and increased activity in spontaneously hypertensive rats. Zini S, et al. **Neuroscience** 1997 Jun;78(4):1187–93

Nutrient consumption and metabolic perturbations. LaManna JC, et al. **Neurosurg Clin N Am** 1997 Apr;8(2):145–63 (67 ref.)

Jugular bulb oximetry for the monitoring of cerebral blood flow and metabolism. Mayberg TS, et al. **Neurosurg Clin N Am** 1996 Oct;7(4):755–65 (71 ref.)

Cellular uptake and transport of methylprednisolone at the blood–brain barrier. Chen TC, et al. **Neurosurgery** 1996 Feb;38(2):348–54

In vivo proton magnetic resonance spectroscopy for metabolic changes in brain during chronic cerebral vasospasm in primates. Handa Y, et al. **Neurosurgery** 1997 Apr;40(4):773–80; discussion 780–1

Low-level cadmium exposure of lactating rats causes alterations in brain serotonin levels in the offspring. Andersson H, et al. **Neurotoxicol Teratol** 1997 Mar–Apr; 19(2):105–15

Cocaine concentrations in fetal C57BL/6 mouse brain relative to maternal brain and plasma [published erratum appears in Neurotoxicol Teratol 1997 Jan–Feb;19(1):75] Miller SR, et al. **Neurotoxicol Teratol** 1996 Nov–Dec; 18(6):645–9

Monitoring methylmercury during pregnancy: maternal hair predicts fetal brain exposure. Cernichiari E, et al. **Neurotoxicology** 1995 Winter;16(4):705–10

Capacity of rat brain to metabolize m-dinitrobenzene: an in vitro study. Hu HL, et al. **Neurotoxicology** 1997; 18(2):363–70

An analysis of autopsy brain tissue from infants prenatally exposed to methymercury. Lapham LW, et al. **Neurotoxicology** 1995 Winter;16(4):689–704

Cannabinoid receptors: pharmacology, second messenger systems and endogenous ligands. **NIDA Res Monogr** 1994; 140:55–60

Mechanisms regulating proenkephalin gene expression: contributions of transgenic models. Hyman SE, et al. **NIDA Res Monogr** 1996;161:59–71 (40 ref.)

5-Hydroxytryptamine1B and alpha 2 adrenaline receptors in the brain of rats prenatally treated with methylazoxymethanol. Watanabe M, et al. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Apr; 17(2):69–73

Metabolic changes associated with vacuolation in murine models of scrapie using in vitro 1H-NMR spectroscopy. Chung YL, et al. **NMR Biomed** 1996 Dec;9(8):359–63

Statistics for investigation of multimodal MR imaging data and an application to multiple sclerosis patients. Fu L, et al. **NMR Biomed** 1996 Dec;9(8):339–46

Interpretation of BOLD MRI signals in rat brain using simultaneously measured near-infrared spectrophotometric information. Kida I, et al. **NMR Biomed** 1996 Dec; 9(8):333–8

Metabolic alterations in brain autopsies: proton NMR identification of free glycerol. Michaelis T, et al. **NMR Biomed** 1996 May;9(3):121–4

Differential distribution of NAA and NAAG in human brain as determined by quantitative localized proton MRS. Pouwels PJ, et al. **NMR Biomed** 1997 Apr;10(2):73–8

The application of diffusion-weighted line-scanning for the rapid assessment of water ADC changes in stroke at high magnetic fields. Yongbi MN, et al. **NMR Biomed** 1997 Apr; 10(2):79–86

Radiosynthesis of [11C]brofaromine, a potential tracer for imaging monoamine oxidase A. Ametamey SM, et al. **Nucl Med Biol** 1996 Apr;23(3):229–34

Development of central 5-HT2A receptor radioligands for PET: comparison of [3H]RP 62203 and [3H]SR 46349B kinetics in rat brain. Ashworth S, et al. **Nucl Med Biol** 1996 Apr;23(3):245–50

Specific in vivo binding in the rat brain of [18F]RP 62203: a selective 5-HT2A receptor radioligand for positron emission tomography. Besret L, et al. **Nucl Med Biol** 1996 Feb;23(2):169–71

In vivo binding of [18F]altanserin to rat brain 5HT2 receptors: a film and electronic autoradiographic study. Biver F, et al. **Nucl Med Biol** 1997 May;24(4):357–60

Specific binding component of the "inactive" stereoisomer (S,S)-[125I] IQNB to rat brain muscarinic receptors in vivo. Boulay SF, et al. **Nucl Med Biol** 1996 Apr;23(3):211–9

Autoradiographic evidence that (R)-3-quinuclidinyl (S)-4-fluoromethylbenzilate ((R,S)-FMeQNB) displays in vivo selectivity for the muscarinic m2 subtype. Boulay SF, et al. **Nucl Med Biol** 1996 Oct;23(7):889–96

Synthesis and biodistribution of [5-131I]iodotropapride: a potential D2 dopamine receptor imaging agent. Cantineau R, et al. **Nucl Med Biol** 1994 Feb;21(2):255–62

Opioid receptor imaging and displacement studies with [6-O-[11C] methyl]buprenorphine in baboon brain. Galynker I, et al. **Nucl Med Biol** 1996 Apr;23(3):325–31

Brain kinetics of (R)- and (S)-[N-methyl-11C]ketamine in the rhesus monkey studied by positron emission tomography (PET). Hartvig P, et al. **Nucl Med Biol** 1994 Oct;21(7):927–34

Evaluation of [11C]RTI-121 as a selective radioligand for PET studies of the dopamine transporter. Hume SP, et al. **Nucl Med Biol** 1996 Apr;23(3):377–84

Synthesis and evaluation of 5-HT3 receptor antagonist [11C]KF17643. Ishiwata K, et al. **Nucl Med Biol** 1996 Apr; 23(3):285–90

Synthesis and evaluation of an 18F-labeled dopa prodrug as a PET tracer for studying brain dopamine metabolism. Ishiwata K, et al. **Nucl Med Biol** 1996 Apr;23(3):295–301

Time-dependent recovery of in vivo binding sites after drug dosing: a method for radiotracer evaluation. Kilbourn MR. **Nucl Med Biol** 1997 Jan;24(1):115–8

Effects of dopaminergic drug treatments on in vivo radioligand binding to brain vesicular monoamine transporters. Kilbourn MR, et al. **Nucl Med Biol** 1996 May; 23(4):467–71

Synthesis and in vivo studies of a selective ligand for the dopamine transporter: 3 beta-(4-[125I]iodophenyl) tropan-2 beta-carboxylic acid isopropyl ester ([125I]RTI-121). Lever JR, et al. **Nucl Med Biol** 1996 Apr; 23(3):277–84

First-pass extraction fraction of iodine-123 labeled perfusion tracers in living primate brain. Moerlein SM, et al. **Nucl Med Biol** 1994 Aug;21(6):847–55

8-[18F]fluorooctanoic acid and its beta-substituted derivatives as potential agents for cerebral fatty acid studies: synthesis and biodistribution. Nagatsugi F, et al. **Nucl Med Biol** 1994 Aug;21(6):809–17

Does the anabolic metabolism of L-[2-18F]fluorophenylalanine and L-[2,6-3H]phenylalanine differ in the cerebrum and the cerebellum? Nakamichi H, et al. **Nucl Med Biol** 1994 Oct; 21(7):959–62

Effects of haloperidol and cocaine pretreatments on brain distribution and kinetics of [11C]methamphetamine in methamphetamine sensitized dog: application of PET to drug pharmacokinetic study. Nakamura H, et al. **Nucl Med Biol** 1997 Feb;24(2):165–9

Synthesis, radiosynthesis, and biological evaluation of fluorinated thienylcyclohexyl piperidine derivatives as potential radiotracers for the NMDA receptor-linked calcium ionophore. Ouyang X, et al. **Nucl Med Biol** 1996 Apr;23(3):315–24

In vivo biodistribution of [N-11C-methyl]KF 17837 using 3-D-PET: evaluation as a ligand for the study of adenosine A2A receptors. Stone-Elander S, et al. **Nucl Med Biol** 1997 Feb;24(2):187–91

In vivo binding of [125I]NH2-carfentanil to mu opioid receptors in mouse brain. Tafani JA, et al. **Nucl Med Biol** 1994 Feb;21(2):231–8

Comparison of three high affinity SPECT radiotracers for the dopamine D2 receptor. al-Tikriti MS, et al. **Nucl Med Biol** 1994 Feb;21(2):179–88

Synthesis and preliminary evaluation of [123I]1-(4-cyanobenzyl)-4-[[(trans-iodopropen-2-yl) oxy]meth yl]piperidin e: a novel high affinity sigma receptor radioligand for SPECT. Waterhouse RN, et al. **Nucl Med Biol** 1997 Jan;24(1):45–51

Positron-labeled antioxidant 6-deoxy-6-[18F]fluoro-L-ascorbic acid: increased uptake in transient global ischemic rat brain. Yamamoto F, et al. **Nucl Med Biol** 1996 May;23(4):479–86

[18F]haloperidol binding in baboon brain in vivo. Yousef KA, et al. **Nucl Med Biol** 1996 Jan;23(1):47–52

Radiotracer binding to brain microsomes determined by thin-layer chromatography. Zamora PO, et al. **Nucl Med Biol** 1996 Jan;23(1):61–7

Reliability of a simple non-invasive method for the evaluation of 5-HT2 receptors using [18F]-setoperone PET imaging. Kapur S, et al. **Nucl Med Commun** 1997 May;18(5):395–9

Radioiodinated (-)-2-[4-(3-iodophenyl) piperidino] cyclohexanol: a potential radioligand for mapping presynaptic cholinergic neurons. Shiba K, et al. **Nucl Med Commun** 1996 Jun;17(6):485–92

Identification of two proteins that bind to a pyrimidine-rich sequence in the 3'-untranslated region of GAP-43 mRNA. Irwin N, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1281–8

Location and effect of obesity on putative anorectic binding sites in the rat brain. Dunn-Meynell AA, et al. **Obes Res** 1997 May;5(3):201–7

Brain serotonin content: physiological regulation by plasma neutral amino acids. 1971 [classical article] [see comments] Fernstrom JD, et al. **Obes Res** 1997 Jul;5(4):377–80. Comment in: Obes Res 1997 Jul;5(4):373–6.

Molecular characterization of ALK, a receptor tyrosine kinase expressed specifically in the nervous system. Iwahara T, et al. **Oncogene** 1997 Jan 30;14(4):439–49

Neurochemicals, estrogen and headache [letter; comment] Limmroth V. **Pain** 1996 Oct;67(2-3):513. Comment on: Pain 1995 Aug;62(2):129–39.

Spatial and temporal expression of P-glycoprotein in the congenitally hydrocephalic HTX rat brain. Kuwahara S, et al. **Pathol Res Pract** 1996 May;192(5):496–507

Liver and brain iron deficiency in newborn infants with bilateral renal agenesis (Potter's syndrome). Georgieff MK, et al. **Pediatr Pathol Lab Med** 1996 May-Jun;16(3):509–19

Fuel utilization by early newborn brain is preserved under congenital hypothyroidism in the rat. Almeida A, et al. **Pediatr Res** 1996 Sep;40(3):410–4

Mild hypothermia after severe transient hypoxia-ischemia reduces the delayed rise in cerebral lactate in the newborn piglet. Amess PN, et al. **Pediatr Res** 1997 Jun;41(6):803–8

Tyrosine uptake and regional brain monoamine metabolites in a rat model resembling congenital hyperammonemia. Colombo JP, et al. **Pediatr Res** 1996 Jun;39(6):1036–40

The noninvasive measurement of absolute cerebral deoxyhemoglobin concentration and mean optical path length in the neonatal brain by second derivative near infrared spectroscopy. Cooper CE, et al. **Pediatr Res** 1996 Jan;39(1):32–8

Effects of environmental tobacco smoke exposure in utero and/or postnatally on brain development. Gospe SM Jr, et al. **Pediatr Res** 1996 Mar;39(3):494–8

Bilirubin entry into and clearance from rat brain during hypercarbia and hyperosmolality. Hansen TW. **Pediatr Res** 1996 Jan;39(1):72–6

Cerebral glucose metabolism is decreased in white matter changes in patients with phenylketonuria. Hasselbalch S, et al. **Pediatr Res** 1996 Jul;40(1):21–4

Cerebral oxygenation measured by near infrared spectroscopy during cardiopulmonary bypass and deep hypothermic circulatory arrest in piglets. Nomura F, et al. **Pediatr Res** 1996 Dec;40(6):790–6

Proton magnetic resonance spectroscopy of the brain during acute hypoxia-ischemia and delayed cerebral energy failure in the newborn piglet. Penrice J, et al. **Pediatr Res** 1997 Jun;41(6):795–802

Central muscarinic cholinergic M1 and M2 receptor changes in congenital ornithine transcarbamylase deficiency. Ratnakumari L, et al. **Pediatr Res** 1996 Jul;40(1):25–8

Autoradiographic mapping of local cerebral permeability to bilirubin in immature rats: effects of hyperbilirubinemia. Roger C, et al. **Pediatr Res** 1996 Jan;39(1):64–71

Effect of streptozotocin-induced maternal diabetes on fetal rat brain glucose transporters. Schroeder RE, et al. **Pediatr Res** 1997 Mar;41(3):346–52

Effect of carbon dioxide on cerebral metabolism during hypoxia-ischemia in the immature rat. Vannucci RC, et al. **Pediatr Res** 1997 Jul;42(1):24–9

Evidence from proton magnetic resonance spectroscopy for a metabolic cascade of neuronal damage in shaken baby syndrome. Haseler LJ, et al. **Pediatrics** 1997 Jan;99(1):4–14

Downregulation of mu-opioid binding sites following chronic administration of neuropeptide FF (NPFF) and morphine. Goodman CB, et al. **Peptides** 1996;17(3):389–97

The in vivo metabolism of cholecystokinin (CCK-8) is essentially ensured by aminopeptidase A. Migaud M, et al. **Peptides** 1996;17(4):601–7

High affinity binding of 125I-neurotensin to dispersed cells from chicken liver and brain. Mitra SP, et al. **Peptides** 1997; 18(4):521–5

Stöckert roller pump generated pulsatile flow: cerebral metabolic changes in adult cardiopulmonary bypass. Chow G, et al. **Perfusion** 1997 Mar;12(2):113–9

Functions of brain chondroitin sulfate proteoglycans during developments: interactions with adhesion molecules. Grumet M, et al. **Perspect Dev Neurobiol** 1996;3(4):319–30 (67 ref.)

Brain aggrecan. Schwartz NB, et al. **Perspect Dev Neurobiol** 1996;3(4):291–306 (87 ref.)

Brevican: a major proteoglycan in adult brain. Yamaguchi Y. **Perspect Dev Neurobiol** 1996;3(4):307–17 (54 ref.)

Brain perfusion systems for studies of drug uptake and metabolism in the central nervous system. Smith QR. **Pharm Biotechnol** 1996;8:285–307 (78 ref.)

Chemotherapeutic drugs released from polymers: distribution of 1,3-bis(2-chloroethyl)-1-nitrosourea in the rat brain. Fung LK, et al. **Pharm Res** 1996 May;13(5):671–82

Drug equilibration across the blood–brain barrier--pharmacokinetic considerations based on the microdialysis method. Hammarlund-Udenaes M, et al. **Pharm Res** 1997 Feb;14(2):128–34

Pharmacokinetic analysis of benzodiazepine receptor binding of [123I]iomazenil in human brain. Ito K, et al. **Pharm Res** 1997 Aug;14(8):999–1003

Blood-to-brain transfer of various oxicams: effects of plasma binding on their brain delivery. Jolliet P, et al. **Pharm Res** 1997 May;14(5):650–6

Fluconazole distribution to the brain: a crossover study in freely-moving rats using in vivo microdialysis. Yang H, et al. **Pharm Res** 1996 Oct;13(10):1570–5

Behavioral sensitization to cocaine in the absence of altered brain cocaine levels. Bonate PL, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):665–9

The effects of two chronic intermittent stressors on brain monoamines. Campmany L, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):517–23

The effect of acute, chronic and chronic intermittent stress on the central noradrenergic system. Hellriegel ET, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):207–14

Reduced levels of antioxidants in brains of apolipoprotein E-deficient mice following closed head injury. Lomnitski L, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):669–73

Sex differences in ibogaine antagonism of morphine-induced locomotor activity and in ibogaine brain levels and metabolism. Pearl SM, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):809–15

Effect of chronic treatment with piracetam and tacrine on some changes caused by thymectomy in the rat brain. Song C, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):697–704

Regional densities of benzodiazepine sites in the CNS of alcohol-naive P and NP rats. Thielen RJ, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):875–82

Cytokines and their receptors in the central nervous system: physiology, pharmacology, and pathology. Rothwell NJ, et al. **Pharmacol Ther** 1996;69(2):85–95 (159 ref.)

Elevated brain 5-hydroxytryptophol levels in experimental portal-systemic encephalopathy. Bergqvist PB, et al.

Pharmacol Toxicol 1997 Apr;80(4):187–90

Morphine withdrawal alters anterior pituitary hormone secretion, brain endopeptidase activity and brain monoamine metabolism in the rat. Idänpään-Heikkilä JJ, et al. **Pharmacol Toxicol** 1996 Mar;78(3):129–35

Uptake of manganese and cadmium from the nasal mucosa into the central nervous system via olfactory pathways in rats. Tjälve H, et al. **Pharmacol Toxicol** 1996 Dec; 79(6):347–56

Measurements of scattering and absorption changes in muscle and brain. Gratton E, et al.
Philos Trans R Soc Lond B Biol Sci 1997 Jun 29; 352(1354):727–35 (50 ref.)

Localized near-infrared spectroscopy and functional optical imaging of brain activity. Tamura M, et al.
Philos Trans R Soc Lond B Biol Sci 1997 Jun 29; 352(1354):737–42

Improved receptor analysis in PET using a priori information from in vitro binding assays. Litton JE, et al.
Phys Med Biol 1997 Aug;42(8):1653–60

Error analysis on parameter estimates in the ligand-receptor model: application to parameter imaging using PET data. Millet P, et al. **Phys Med Biol** 1996 Dec;41(12):2739–56

Quantification of dopamine metabolism in man: a mathematically justifiable approach. Wahl L, et al.
Phys Med Biol 1996 Jun;41(6):963–78

Immediate early gene expression to examine neuronal activity following acute and chronic stressors in rat pups: examination of neurophysiological alterations underlying behavioral consequences of prenatal cocaine exposure. Goodwin GA, et al. **Physiol Behav** 1997 Jun;61(6):895–902

Paw preference, rotation, and dopamine function in Collins HI and LO mouse strains. Nielsen DM, et al.
Physiol Behav 1997 Apr;61(4):525–35

Atrial natriuretic peptide in brain and pituitary gland. Gutkowska J, et al. **Physiol Rev** 1997 Apr;77(2):465–515 (468 ref.)

Chemical and biological investigation of the root bark of Clerodendrum mandarinorum. Zhu M, et al.
Planta Med 1996 Oct;62(5):393–6

Comparison of changes in serotonergic measures in whole blood or plasma and brain in rats given nicotine and/or stresses. Takada A, et al. **Pol J Pharmacol** 1996 Mar-Apr; 48(2):173–7

Transgenic mice containing the human erythropoietin receptor gene exhibit correct hematopoietic and neural expression. Liu C, et al. **Proc Assoc Am Physicians** 1996 Nov;108(6):449–54

RhoGDIgamma: a GDP-dissociation inhibitor for Rho proteins with preferential expression in brain and pancreas. Adra CN, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4279–84

Cleft palate and decreased brain gamma-aminobutyric acid in mice lacking the 67-kDa isoform of glutamic acid decarboxylase. Asada H, et al.
Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6496–9

A novel seizure-induced synaptotagmin gene identified by differential display. Babity JM, et al.
Proc Natl Acad Sci U S A 1997 Mar 18;94(6):2638–41

Directing gene expression to cerebellar granule cells using gamma-aminobutyric acid type A receptor alpha6 subunit transgenes. Bahn S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9417–21

The neuron-restrictive silencer element: a dual enhancer/silencer crucial for patterned expression of a nicotinic receptor gene in the brain. Bessis A, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5906–11

Free radical oxidation of brain proteins in accelerated senescence and its modulation by N-tert-butyl-alpha-phenylnitrone. Butterfield DA, et al.
Proc Natl Acad Sci U S A 1997 Jan 21;94(2):674–8

Autoradiographic characterization of [3H]-5-HT-moduline binding sites in rodent brain and their relationship to 5-HT1B receptors. Cloëz-Tayarani I, et al.
Proc Natl Acad Sci U S A 1997 Sep 2;94(18):9899–904

Parkinson disease: a new link between monoamine oxidase and mitochondrial electron flow. Cohen G, et al.
Proc Natl Acad Sci U S A 1997 May 13;94(10):4890–4

Embryonic neuronal markers in tuberous sclerosis: single-cell molecular pathology. Crino PB, et al.
Proc Natl Acad Sci U S A 1996 Nov 26;93(24):14152–7

Inhibition of gastric acid secretion by stress: a protective reflex mediated by cerebral nitric oxide. Esplugues JV, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14839–44

Anatomic localization of alternatively spliced leptin receptors (Ob-R) in mouse brain and other tissues. Fei H, et al.
Proc Natl Acad Sci U S A 1997 Jun 24;94(13):7001–5

Functional analysis of retinoid Z receptor beta, a brain-specific nuclear orphan receptor. Greiner EF, et al.
Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10105–10

Purification, molecular cloning, and expression of the mammalian sigma1-binding site. Hanner M, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):8072–7

Progressive decline in avoidance learning paralleled by inflammatory neurodegeneration in transgenic mice expressing interleukin 6 in the brain. Heyser CJ, et al.
Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1500–5

Brain drug delivery of small molecules using immunoliposomes. Huwyler J, et al.
Proc Natl Acad Sci U S A 1996 Nov 26;93(24):14164–9

Increased tricarboxylic acid cycle flux in rat brain during forepaw stimulation detected with 1H[13C]NMR. Hyder F, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7612–7

Amyloid precursor protein processing and A beta42 deposition in a transgenic mouse model of Alzheimer disease. Johnson-Wood K, et al.
Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1550–5

Selective enhancement of emotional, but not motor, learning in monoamine oxidase A-deficient mice. Kim JJ, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5929–33

Neuritin: a gene induced by neural activity and neurotrophins that promotes neuritogenesis. Naeve GS, et al.
Proc Natl Acad Sci U S A 1997 Mar 18;94(6):2648–53

Efficient transfer, integration, and sustained long-term expression of the transgene in adult rat brains injected with a lentiviral vector. Naldini L, et al.
Proc Natl Acad Sci U S A 1996 Oct 15;93(21):11382–8

Differences between males and females in rates of serotonin synthesis in human brain [see comments] Nishizawa S, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5308–13 . Comment in: Proc Natl Acad Sci U S A 1997 May 13;94(10):4823–4.

Isolation of a multispecific organic anion and cardiac glycoside transporter from rat brain. Noé B, et al.
Proc Natl Acad Sci U S A 1997 Sep 16;94(19):10346–50

In situ hybridization analysis of presenilin 1 mRNA in Alzheimer disease and in lesioned rat brain. Page K, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14020–4

Function and regulation of heat shock factor 2 during mouse embryogenesis. Rallu M, et al.
Proc Natl Acad Sci U S A 1997 Mar 18;94(6):2392–7

The SH3p4/Sh3p8/SH3p13 protein family: binding partners for synaptojanin and dynamin via a Grb2-like Src homology 3 domain. Ringstad N, et al.
Proc Natl Acad Sci U S A 1997 Aug 5;94(16):8569–74

Glial cell line-derived neurotrophic factor-dependent RET activation can be mediated by two different cell-surface accessory proteins. Sanicola M, et al.
Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6238–43

Direct modulation of calmodulin targets by the neuronal calcium sensor NCS-1. Schaad NC, et al.
Proc Natl Acad Sci U S A 1996 Aug 20;93(17):9253–8

Molecular characterization of Br-cadherin, a developmentally regulated, brain-specific cadherin. Selig S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2398–403

In vivo 13C NMR measurements of cerebral glutamine synthesis as evidence for glutamate-glutamine cycling. Sibson NR, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2699–704

Occurrence of two somatostatin variants in the frog brain: characterization of the cDNAs, distribution of the mRNAs, and receptor-binding affinities of the peptides. Tostivint H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12605–10

Neuronal death in the central nervous system demonstrates a non-fibrin substrate for plasmin. Tsirka SE, et al.
Proc Natl Acad Sci U S A 1997 Sep 2;94(18):9779–81

Subcellular colocalization of the cellular and scrapie prion proteins in caveolae-like membranous domains. Vey M, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14945–9

Interleukin (IL) 1beta, IL-1 receptor antagonist, IL-10, and IL-13 gene expression in the central nervous system and anterior pituitary during systemic inflammation: pathophysiological implications. Wong ML, et al.
Proc Natl Acad Sci U S A 1997 Jan 7;94(1):227–32

The RNA-binding protein, TB-RBP, is the mouse homologue of translin, a recombination protein associated with chromosomal translocations. Wu XQ, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5640–5

Glucose transporters in the brain. Rayner DV.
Proc Nutr Soc 1996 Mar;55(1B):209–19 (75 ref.)

Kainate and AMPA receptors in the rat brain in thioacetamide-induced hepatic encephalopathy. Oja SS, et al. **Proc West Pharmacol Soc** 1996;39:15–7

Muscarinic activation of phosphatidylcholine hydrolysis. Klein J, et al. **Prog Brain Res** 1996;109:201–8 (57 ref.)

Activation of c-fos in the brain. Herrera DG, et al.
Prog Neurobiol 1996 Oct;50(2-3):83–107 (265 ref.)

Phosphorus-31 magnetic resonance spectroscopic observations in 4 cases with anorexia nervosa. Kato T, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 May; 21(4):719–24

Lithium side effects in relation to brain lithium concentration measured by lithium-7 magnetic resonance spectroscopy. Kato T, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Jan; 20(1):87–97

Lithium distribution in experimental inflammation of brain and spinal cord. Levine S, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Aug; 20(6):1011–7

Enhanced accumulation of free fatty acids in experimental focal cerebral ischemia. Baskaya MK, et al.
Prostaglandins Leukot Essent Fatty Acids 1996 Mar; 54(3):167–71

Cerebrodiene, arachidonyl-ethanolamide, and hybrid structures: potential for interaction with brain cannabinoid receptors. Boring DL, et al.
Prostaglandins Leukot Essent Fatty Acids 1996 Sep; 55(3):207–10

Seasonal variation in levels of prostaglandins D2, E2 and F2(alpha) in the brain of a mammalian hibernator, the Asian chipmunk. Takahata R, et al.
Prostaglandins Leukot Essent Fatty Acids 1996 Jan; 54(1):77–81

Effect of chronic ipsapirone treatment on the density of 5-HT1A receptors and 5-HT1A receptor mRNA in discrete regions of the rat brain. Shiro Y, et al.
Psychiatry Clin Neurosci 1996 Jun;50(3):141–6

Brain glucose metabolism in chronic marijuana users at baseline and during marijuana intoxication. Volkow ND, et al. **Psychiatry Res** 1996 May 31;67(1):29–38

Formation of pyridinium species of haloperidol in human liver and brain. Eyles DW, et al.
Psychopharmacology (Berl) 1996 Jun;125(3):214–9

Twelve-hour brain lithium concentration in lithium maintenance treatment of manic-depressive disorder: daily versus alternate-day dosing schedule. Jensen HV, et al.
Psychopharmacology (Berl) 1996 Apr;124(3):275–8

Intracerebral penetration of carteolol hydrochloride in rats. Kudo S, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):388–93

In vivo characteristics of dopamine D2 receptor occupancy by amisulpride in schizophrenia. Martinot JL, et al.
Psychopharmacology (Berl) 1996 Mar;124(1-2):154–8

Risperidone compared with new and reference antipsychotic drugs: in vitro and in vivo receptor binding. Schotte A, et al. **Psychopharmacology (Berl)** 1996 Mar;124(1-2):57–73

Serotonin1A receptor autoradiography during alcohol-withdrawal kindling. Ulrichsen J, et al.
Psychopharmacology (Berl) 1997 Jul;132(1):19–26

Effect of destruction of the 5-hydroxytryptaminergic pathways on the acquisition of temporal discrimination and memory for duration in a delayed conditional discrimination task. Al-Zahrani SS, et al.
Psychopharmacology (Berl) 1996 Jan;123(1):103–10

Pharmacokinetic considerations in the PET and SPECT evaluation of CNS receptors. Mazière B, et al.
Q J Nucl Med 1997 Jun;41(2):119–26

Discordant technetium-99m HMPAO and thallium-201 chloride distribution in brain tumors. Kamisaki Y, et al.
Radiat Med 1996 May-Jun;14(3):155–8

Alterations of benzodiazepine receptor binding potential in anxiety and somatoform disorders measured by 123I-iomazenil SPECT. Tokunaga M, et al. **Radiat Med** 1997 May-Jun;15(3):163–9

Brain gonadotropin releasing hormone receptors: localization and regulation. Jennes L, et al. **Recent Prog Horm Res** 1997;52:475–90; discussion 490–1 (73 ref.)

Comparison of the in vivo rat brain regional pharmacokinetics of [3H]QNB, (R,S)-[125I]-4IQNB, and (R,R)-[125I]-4IQNB binding to the muscarinic acetylcholine receptor in relationship to the regional subtype composition. Boulay SF, et al. **Receptor** 1995; 5(4):207–18

Characterization of a voltage-activated K-channel gene cluster on human chromosome 12p13. Albrecht B, et al.
Receptors Channels 1995;3(3):213–20

Cloning, localization, and functional expression of a human brain inward rectifier potassium channel (hIRK1). Tang W, et al. **Receptors Channels** 1995;3(3):175–83

Brain oxytocin receptor antagonism disinhibits sodium appetite in preweanling rats. Chow SY, et al.
Regul Pept 1997 Jan 29;68(2):119–24

Immunoreactive mammalian and chicken-II GnRHs in Rana esculenta brain during development. Di Fiore MM, et al.
Regul Pept 1996 Apr 23;62(2-3):119–24

Complex activation of inducible transcription factors in the brain of normotensive and spontaneously hypertensive rats following central angiotensin II administration. Lebrun CJ, et al. **Regul Pept** 1996 Oct 8;66(1-2):19–23 (33 ref.)

Peripherally and centrally administered bombesin induce Fos-like immunoreactivity in different brain regions in rats. Li BH, et al. **Regul Pept** 1996 Apr 23;62(2-3):167–72

Ontogeny of pituitary adenylate cyclase activating polypeptide and its receptor mRNA in the mouse brain. Shuto Y, et al. **Regul Pept** 1996 Dec 3;67(2):79–83

Catecholamine and serotonin concentrations in fetal guinea-pig brain: relation to regional cerebral blood flow and oxygen delivery in the growth-restricted fetus. Jensen A, et al. **Reprod Fertil Dev** 1996;8(3):355–64

Changes in the release of amino acid neurotransmitters in the brains of calves and sheep after head-only electrical stunning and throat cutting. Cook CJ, et al.
Res Vet Sci 1996 May;60(3):255–61

The influence of a magnetic field on manganese transport into rat brain. Vojtisek M, et al. **Rev Environ Health** 1996 Oct-Dec;11(4):229–33

Post-feeding carbohydrate and ketone bodies metabolism in brain and liver of Atlantic salmon. Soengas JL, et al.
Rev Esp Fisiol 1996 Sep;52(3):131–42

A neuron-specific splicing switch mediated by an array of pre-mRNA repressor sites: evidence of a regulatory role for the polypyrimidine tract binding protein and a brain-specific PTB counterpart. Ashiya M, et al. **RNA** 1997 Sep;3(9):996–1015

A new non-NMDA antagonist modifies the local cerebral glucose utilization in kainate-ethanolamide generalized seizure. Shiraishi K. **Sangyo Ika Daigaku Zasshi** 1997 Mar 1; 19(1):1–12

Effect of bolus injection versus continuous infusion of furosemide on diuresis and neurohormonal activation in patients with severe congestive heart failure. Aaser E, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):361–7

Free radical pathology and antioxidant defense in

schizophrenia: a review. Mahadik SP, et al. **Schizophr Res** 1996 Mar;19(1):1–17 (165 ref.)

Impaired antioxidant defense at the onset of psychosis. Mukerjee S, et al. **Schizophr Res** 1996 Mar;19(1):19–26

Cerebral metabolic activity correlates of subsyndromes in chronic schizophrenia. Schroder J, et al. **Schizophr Res** 1996 Mar;19(1):41–53

A study of enzymes involved in catecholamine metabolism in parents of patients with schizophrenia. Wei J, et al. **Schizophr Res** 1996 Mar;19(1):27–32

What makes brain neurons run? [news] [see comments] Barinaga M. **Science** 1997 Apr 11;276(5310):196–8. Comment in: Science 1997 Jul 25;277(5325):459–60.

Neuronal gene expression in the waking state: a role for the locus coeruleus. Cirelli C, et al. **Science** 1996 Nov 15; 274(5290):1211–5

Key protein found for brain's dopamine–producing neurons [news; comment] Pennisi E. **Science** 1997 Apr 11; 276(5310):202. Comment on: Science 1997 Apr 11;276(5310):248–50.

Prevention of lysosomal storage in Tay–Sachs mice treated with N–butyldeoxynojirimycin. Platt FM, et al. **Science** 1997 Apr 18;276(5311):428–31

Activation of corticotropin–releasing factor in the limbic system during cannabinoid withdrawal [see comments] Rodríguez de Fonseca F, et al. **Science** 1997 Jun 27; 276(5321):2050–4. Comment in: Science 1997 Jun 27;276(5321):1967–8. Comment in: Science 1997 Aug 8;277(5327):749; discussion 750–2.

The purpose of glycolysis [letter; comment] Sparks S. **Science** 1997 Jul 25;277(5325):459–60. Comment on: Science 1997 Apr 11;276(5310):196–8.

Epilepsy and exacerbation of brain injury in mice lacking the glutamate transporter GLT–1. Tanaka K, et al. **Science** 1997 Jun 13;276(5319):1699–702

Nitric oxide in the brain increases during a short period of hemorrhagic shock in the rabbit. Sato S, et al. **Shock** 1997 Aug;8(2):136–40

c–fos expression after formalin injection into the face in the cat. Kuroda R, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):152–6

Neurosteroids in the mouse brain: behavioral and pharmacological effects of a 3 beta–hydroxysteroid dehydrogenase inhibitor. Young J, et al. **Steroids** 1996 Mar; 61(3):144–9

Severe transient hypoglycemia causes reversible change in the apparent diffusion coefficient of water. Hasegawa Y, et al. **Stroke** 1996 Sep;27(9):1648–55; discussion 1655–6

Slow rhythmic oscillations of blood pressure, intracranial pressure, microcirculation, and cerebral oxygenation. Dynamic interrelation and time course in humans [see comments] Steinmeier R, et al. **Stroke** 1996 Dec; 27(12):2236–43. Comment in: Stroke 1997 Jun;28(6):1289–91.

Inhibitory effect of MS–153 on elevated brain glutamate level induced by rat middle cerebral artery occlusion. Umemura K, et al. **Stroke** 1996 Sep;27(9):1624–8

Flow–related anaerobic metabolic changes in patients with severe stenosis of the internal carotid artery. van der Grond J, et al. **Stroke** 1996 Nov;27(11):2026–32

Effects of the allosteric modification of hemoglobin on brain oxygen and infarct size in a feline model of stroke. Watson JC, et al. **Stroke** 1997 Aug;28(8):1624–30

Cystatin C. Icelandic–like mutation in an animal model of cerebrovascular beta–amyloidosis. Wei LH, et al. **Stroke** 1996 Nov;27(11):2080–5

Cholesterol and myelin. Snipes GJ, et al. **Subcell Biochem** 1997;28:173–204 (170 ref.)

Cerebral oxygen metabolism measured by near–infrared laser spectroscopy during laparoscopic cholecystectomy with CO2 insufflation. Kitajima T, et al. **Surg Laparosc Endosc** 1996 Jun;6(3):210–2

Regional ischemia during cerebral bypass surgery. Hoffman WE, et al. **Surg Neurol** 1997 May;47(5):455–9

Regional binding to corticotropin releasing factor receptors in brain of rats exposed to chronic cocaine and cocaine withdrawal. Ambrosio E, et al. **Synapse** 1997 Mar; 25(3):272–6

Effect of reserpine–induced depletion of synaptic dopamine on [11C]raclopride binding to D2–dopamine receptors in the monkey brain. Ginovart N, et al. **Synapse** 1997 Apr; 25(4):321–5

[18F]CFT ([18F]WIN 35,428), a radioligand to study the dopamine transporter with PET: biodistribution in rats. Haaparanta M, et al. **Synapse** 1996 Aug;23(4):321–7

Autoradiographic localization of extrastriatal D2–dopamine receptors in the human brain using [125I]epidepride. Hall H, et al. **Synapse** 1996 Jun;23(2):115–23

[11C]beta–CIT–FE, a radioligand for quantitation of the dopamine transporter in the living brain using positron emission tomography. Halldin C, et al. **Synapse** 1996 Apr; 22(4):386–90

Real–time measurement of stimulated 5–hydroxytryptamine release in rat substantia nigra pars reticulata brain slices. Iravani MM, et al. **Synapse** 1997 Jan;25(1):93–102

Localization of monoamine oxidase A and B mRNA in the rat brain by in situ hybridization. Jahng JW, et al. **Synapse** 1997 Jan;25(1):30–6

Imaging of cholinergic terminals using the radiotracer [18F](+)–4–fluorobenzyltrozamicol: in vitro binding studies and positron emission tomography studies in nonhuman primates. Mach RH, et al. **Synapse** 1997 Apr; 25(4):368–80

Quantitation of dopamine transporter mRNA in the rat brain: mapping, effects of "binge" cocaine administration and withdrawal. Maggos CE, et al. **Synapse** 1997 May; 26(1):55–61

Striatal efferents preferentially innervate neurons in the ventral pallidum containing GABAA receptor alpha 1 subunit–like immunoreactivity. Markesteiner J, et al. **Synapse** 1996 Jun;23(2):107–14

Local cerebral metabolic effects of the novel cocaine analog, WF–31: comparisons to fluoxetine. Porrino LJ, et al. **Synapse** 1997 Sep;27(1):26–35

N–substituted phenyltropanes as in vivo binding ligands for rapid imaging studies of the dopamine transporter. Scheffel U, et al. **Synapse** 1997 Apr;25(4):345–9

Distribution of the 5–hydroxytryptamine2C receptor protein in adult rat brain and spinal cord determined using a receptor–directed antibody: effect of 5,7–dihydroxytryptamine. Sharma A, et al. **Synapse** 1997 Sep;27(1):45–56

Mapping dopamine transporters in the human brain with novel selective cocaine analog [125I]RTI–121. Staley JK, et al. **Synapse** 1995 Dec;21(4):364–72

Naloxone–sensitive, haloperidol–sensitive, [3H](+)SKF–10047–binding protein partially purified from rat liver and rat brain membranes: an opioid/sigma receptor? Tsao LI, et al. **Synapse** 1997 Feb;25(2):117–24

RTI–352: a 3 alpha analogue of RTI–55 as an in vivo dopamine transporter binding ligand. Zhan Y, et al. **Synapse** 1997 Apr;25(4):389–92

Effect of dietary cadmium on iron metabolism in growing rats. Crowe A, et al. **Toxicol Appl Pharmacol** 1997 Jul; 145(1):136–46

Uptake of nickel into the brain via olfactory neurons in rats. Henriksson J, et al. **Toxicol Lett** 1997 Apr 28;91(2):153–62

Effects of chronic lead exposure on [3H]MK–801 binding in the brain of rat. Ma T, et al. **Toxicol Lett** 1997 Jun 16; 92(1):59–66

Brain and plasma levels of cocaine and benzoylecgonine in lead–expose and cadmium–exposed rats following acute or chronic intraperitoneal administration of cocaine. Nation JR, et al. **Toxicol Lett** 1997 Jun 16;92(1):47–57

Methylmercury alters the tyrosination status of tubulin in the brains of acutely intoxicated rats. Ishida Y, et al. **Toxicology** 1997 Oct 19;122(3):171–81

Immunostaining of neuropil for integrins [letter; comment] Pilgrim C. **Trends Neurosci** 1996 Jun;19(6):228. Comment on: Trends Neurosci 1996 Feb;19(2):68–72.

Presynaptic nicotinic ACh receptors. Wonnacott S. **Trends Neurosci** 1997 Feb;20(2):92–8 (76 ref.)

Appetite suppression by commonly used drugs depends on 5–HT receptors but not on 5–HT availability [see comments] Curzon G, et al. **Trends Pharmacol Sci** 1997 Jan;18(1):21–5 (51 ref.). Comment in: Trends Pharmacol Sci 1997 Jun;18(6):191–2.

Pharmacokinetic studies of different echo–contrast agents in the cerebral circulation of dogs. Seidel G, et al. **Ultrasound Med Biol** 1996;22(8):1037–42

Effects of clenbuterol as a repartitioning agent on beta–adrenoceptor concentrations in heart, bronchi and brain of veal calves. Re G, et al. **Vet J** 1997 Jan; 153(1):63–70

Localization of Bax and Bcl–2 proteins, regulators of programmed cell death, in the human central nervous system. Hara A, et al. **Virchows Arch** 1996 Nov; 429(4–5):249–53

Keratin expression in astrocytomas: an immunofluorescent and biochemical reassessment. Kriho VK, et al. **Virchows Arch** 1997 Aug;431(2):139–47

Kinetics of cytokine mRNA expression in the central nervous system following lethal and nonlethal coronavirus–induced acute encephalomyelitis. Parra B, et al. **Virology** 1997 Jul 7;233(2):260–70

Expression and distribution of the receptors for coxsackievirus B3 during fetal development of the Balb/c mouse and of their brain cells in culture. Xu R, et al. **Virus Res** 1996 Dec;46(1–2):157–70

Metabolism of MPTP by cytochrome P4502D6 and the demonstration of 2D6 mRNA in human foetal and adult brain by in situ hybridization. Gilham DE, et al. **Xenobiotica** 1997 Jan;27(1):111–25

N–sulphation of desipramine in the rat brain. Wong KO, et al. **Xenobiotica** 1996 Jan;26(1):17–26

[Regional brain calcium change in rabbit cerebral ischemia] Gu W, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct; 76(10):771–3 (Eng. Abstr.) **(Chi)**

[Advances in the study of mechanism of iron uptake and some related etiology] Qian Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):792–4 (19 ref.) **(Chi)**

[Changes of opioid contents in brain and plasma through the hibernation bout cycle of ground squirrels– Ye ZC, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):610–4 (Eng. Abstr.) **(Chi)**

[Mechanism of action of ginsenoside Rb1 in decreasing intracellular Ca2+] Jiang XY, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):321–6 (Eng. Abstr.) **(Chi)**

[Effect of indomethacin on the intracranial pressure] Bundgaard H, et al. **Ugeskr Laeger** 1997 Jun 30; 159(27):4261–5 (Eng. Abstr.) **(Dan)**

[OB protein and its receptor: signal transduction between adipose tissue and central nervous system] Campfield LA, et al. **Journ Annu Diabetol Hotel Dieu** 1997;:131–48 (63 ref.) **(Fre)**

[Shortening of the measurement time by 1H–MR turbo spectroscopic imaging of the brain] Träber F, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):221–9 (Eng. Abstr.) **(Ger)**

[Cerebral positron emission tomographic study in systemic lupus erythematosus] Cséppány T, et al. **Orv Hetil** 1997 Aug 3;138(31):1947–52 (46 ref.) (Eng. Abstr.) **(Hun)**

[Recent advances in Alzheimer's disease research––amyloid precursor protein trafficking, processing, and mutations in Alzheimer's disease linked genes] Fukatsu R, et al. **Hokkaido Igaku Zasshi** 1997 Jan;72(1):3–11 (44 ref.) (Eng. Abstr.) **(Jpn)**

[In vitro evaluation of metabolic change in forebrain ischemia model of rat using proton magnetic resonance spectroscopy] Tanaka N. **Hokkaido Igaku Zasshi** 1997 May; 72(3):329–42 (Eng. Abstr.) **(Jpn)**

[Brain uptake ratio as an index of cerebral blood flow obtained with 99mTc–ECD] Miyazaki Y, et al. **Kaku Igaku** 1997 Jan;34(1):49–52 (Eng. Abstr.) **(Jpn)**

[Parametric images of central–type benzodiazepine receptor binding and ligand transport by two SPECT scans of 123I–iomazenil: relative quantification without blood data] Onishi Y, et al. **Kaku Igaku** 1996 Sep;33(9):953–63 (Eng. Abstr.) **(Jpn)**

[Regional distribution of the muscarinic cholinergic receptor in the human brain studied with 11C–benztropine and PET using an anatomical standardization technique] Ono S, et al. **Kaku Igaku** 1996 Jul;33(7):721–7 (Eng. Abstr.) **(Jpn)**

[An improved automated synthesis and in vivo evaluation of PET radioligand for serotonin re–uptake sites: [11C]McN5652X] Sasaki M, et al. **Kaku Igaku** 1996 Dec; 33(12):1319–27 (Eng. Abstr.) **(Jpn)**

[Comparison of cerebral oxygen metabolism during normothermic versus moderate hypothermic cardiopulmonary bypass] Ohnishi Y, et al. **Masui** 1996 Feb; 45(2):153–9 (Eng. Abstr.) **(Jpn)**

[Changes in opioid receptor binding nature in rat brain and spinal cord following formalin or carrageenan–induced nociception] Ohta S, et al. **Masui** 1997 May;46(5):644–9 (Eng. Abstr.) **(Jpn)**

[Changes in alpha 2–adrenoceptor binding nature in guinea–pig brain following the development of morphine dependence] Ohta S, et al. **Masui** 1997 May;46(5):640–3 (Eng. Abstr.) **(Jpn)**

[Emergency internal carotid artery ligation using near infrared spectroscopy] Saitoh K, et al. **Masui** 1996 Aug; 45(8):1015–7 (Eng. Abstr.) **(Jpn)**

[Cerebral blood volume, cerebral hemoglobin and cytochrome AA3 during hypotension induced by prostaglandin E1 or epidural anesthesia under general anesthesia] Shinohara M, et al. **Masui** 1996 Aug;45(8):961–6 (Eng. Abstr.) **(Jpn)**

[The effect of sevoflurane on regional cerebral metabolism and cerebral blood flow in rhesus monkeys] Yoshikawa T, et al. **Masui** 1997 Feb;46(2):237–43 (Eng. Abstr.) **(Jpn)**

[Alterations in brain distribution of methamphetamine in methamphetamine–sensitized animals.] Mizugaki M. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1996 Oct; 16(5):187–91 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Neural activity and energy metabolism of brain slices––survival period of neurons during deprivation of oxygen and/or glucose] Okada Y. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1996 Apr; 16(2):65–71 (7 ref.) **(Jpn)**

[Changes of magnetization transfer ratio according to rat brain development] Bai LS, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):955–60 (Eng. Abstr.) **(Jpn)**

[Accuracy and clinical utility of quantitative proton magnetic resonance spectroscopy (MRS) on phantom and chronic cerebral ischemia] Harada M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul; 57(8):487–92 (Eng. Abstr.) **(Jpn)**

[Transverse relaxation time of metabolites by proton MRS: one of the parameters concerned with quantification] Harada M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May;57(6):350–2 (Eng. Abstr.) **(Jpn)**

[Quantification of brain metabolites by 1H spectroscopy using cyclohexane as an external reference] Maeda H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):579–87 (Eng. Abstr.) **(Jpn)**

[Effect of duration of cerebral ischemia on pyruvate dehydrogenase activity (PDH) and metabolites in the gerbil brain] Fukuchi T, et al. **Nippon Ika Daigaku Zasshi** 1996 Apr;63(2):117–26 (Eng. Abstr.) **(Jpn)**

[Cerebral oxygen desaturation during rewarming in retrograde cerebral perfusion with total circulatory arrest] Saito S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec; 44(12):2138–45 (Eng. Abstr.) **(Jpn)**

[Clinical aspects of asymptomatic cerebral infarction. 2. Cerebral circulatory metabolism] Kitamura S. **Nippon Naika Gakkai Zasshi** 1997 May 10;86(5):764–9 **(Jpn)**

[Magnetic resonance spectroscopy in Parkinson's disease and multiple system atrophy] Aotsuka A, et al. **Nippon Rinsho** 1997 Jan;55(1):249–54 (12 ref.) (Eng. Abstr.) **(Jpn)**

[18F–fluorodeoxyglucose positron emission tomography in

Parkinson's disease] Arahata Y, et al. **Nippon Rinsho** 1997 Jan;55(1):222–6 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Muscarinic cholinergic receptor imaging of parkinsonian brain using 11C-NMPB and PET] Asahina M, et al. **Nippon Rinsho** 1997 Jan;55(1):233–7 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Metabolic imaging of human brain tumors: H-1 chemical shift imaging and PET] Koga M, et al. **Nippon Rinsho** 1997 Jul;55(7):1774–8 (Eng. Abstr.) **(Jpn)**

[Evaluation of dynamic change of cerebral metabolism using of MR spectroscopy] Mashima Y. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:341–4 (6 ref.) **(Jpn)**

[Evaluation of cerebral ischemia with metabolic image by using 3D-CSI--comparing with SPECT and PET] Morishita H, et al. **Nippon Rinsho** 1997 Jul;55(7):1762–7 (Eng. Abstr.) **(Jpn)**

[PET study using 6-[18F]-fluorodopa in Parkinson's disease] Nagasawa H, et al. **Nippon Rinsho** 1997 Jan;55(1):213–7 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Recent clinical applications of MR medicine as functional medical imaging in the brain and heart] Nishimura T. **Nippon Rinsho** 1997 Jul;55(7):1621–7 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Glucose metabolism and blood flow studies in 2 cases with juvenile Parkinson's disease] Shibasaki T. **Nippon Rinsho** 1997 Jan;55(1):95–100 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Mapping of cerebral metabolism on cerebral disorders using multi-slice proton magnetic resonance spectroscopic imaging] Tanaka C, et al. **Nippon Rinsho** 1997 Jul; 55(7):1779–84 (4 ref.) (Eng. Abstr.) **(Jpn)**

[Specific regulation of gene expression in brain by antisense oligodeoxynucleotides] Yoshikawa M, et al. **Nippon Yakurigaku Zasshi** 1997 Apr;109(4):187–91 (10 ref.) (Eng. Abstr.) **(Jpn)**

[The changes of regional cerebral blood flow and oxygen metabolism following ventricular puncture] Nakajima S, et al. **No Shinkei Geka** 1997 Mar;25(3):205–12 (Eng. Abstr.) **(Jpn)**

[Measurements of cerebral hemodynamic and metabolic changes by near-infrared spectroscopy] Hoshi Y. **No To Hattatsu** 1996 Mar;28(2):146–8 (Eng. Abstr.) **(Jpn)**

[Expression of interferon-alpha mRNA in human brain tissues] Kawaguchi N, et al. **No To Shinkei** 1997 Jan; 49(1):69–73 (Eng. Abstr.) **(Jpn)**

[Expression of HGF and c-met/HGF receptor mRNA in brains of normal rats and in phaeochromocytoma cells PC-12 of rats treated with NGF] Ukita H, et al. **No To Shinkei** 1997 Mar;49(3):252–9 (Eng. Abstr.) **(Jpn)**

[Physiology and pathology of the lipid transport in the brain] Chiba H. **Rinsho Byori** 1996 Mar;44(3):231–6 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Diffusional anisotropy in the cerebral white matter in Alzheimer-type dementia] Hanyu H, et al. **Rinsho Shinkeigaku** 1996 Jul;36(7):909–11 (Eng. Abstr.) **(Jpn)**

[Abnormal neurotransmission in the epileptic brain] Morimoto K, et al. **Rinsho Shinkeigaku** 1996 Dec; 36(12):1326–7 **(Jpn)**

[Cerebral metabolic disturbance in hypoxic encephalopathy: evaluation with H-1 MR spectroscopy] Suzuki S, et al. **Rinsho Shinkeigaku** 1996 Jul;36(7):844–9 (Eng. Abstr.) **(Jpn)**

[Changes in cysteine sulfinic acid in rat brain under the experimental elevation of taurine content] Tsunoda M. **Rinsho Shinkeigaku** 1996 May;36(5):648–54 (Eng. Abstr.) **(Jpn)**

[Expression of brain prolactin receptor mRNA and induction of maternal behavior] Sakaguchi K, et al. **Seikagaku** 1997 Apr;69(4):247–50 (15 ref.) **(Jpn)**

[Effects of antidepressants on cerebral protein phosphorylation reaction] Miyamoto S, et al. **Seishin Shinkeigaku Zasshi** 1996;98(11):930–7 (25 ref.) **(Jpn)**

[Biochemical mechanism of reinforcement: findings in the studies of self-stimulation] Nakajima S. **Shinrigaku Kenkyu** 1996 Feb;66(6):449–56 (57 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of observations in the admissions room of the Krakow Clinical Toxicology Department of substance dependent persons in relation to changes in central nervous system metabolism caused by substances of abuse] Chrostek Maj J, et al. **Przegl Lek** 1997;54(6):420–5 (Eng. Abstr.) **(Pol)**

[Brain metabolism in patients undergoing surgery under conditions of artificial blood circulation] Kukaeva EA, et al. **Anesteziol Reanimatol** 1997 Mar-Apr;(2):40–5 (85 ref.) **(Rus)**

[Catheterization of the internal jugular vein in the assessment of brain metabolism: right or left side?] Lubnin AIu, et al. **Anesteziol Reanimatol** 1997 Mar-Apr;(2):50–2 (Eng. Abstr.) **(Rus)**

[Postresuscitation changes in the nitric-oxide synthase activity and radical formation in sections of the rat brain] Onufriev MV, et al. **Anesteziol Reanimatol** 1996 Sep-Oct; (5):58–61 **(Rus)**

[Effect of ischemic damage factors on lipid peroxidation in rat brain synaptosomes] Lyskova TI, et al. **Biofizika** 1997 Mar-Apr;42(2):408–11 (Eng. Abstr.) **(Rus)**

[Molecular mechanisms of biological action of low magnetic fields. II. Purification and characteristics of protein from rat brain chromatin which inhibit DNAse 1 activity] Shvetsov IuP, et al. **Biofizika** 1997 May-Jun;42(3):738–41 (Eng. Abstr.) **(Rus)**

[Protein synthesis in neurons and satellite glial cells after global brain ischemia induced by heart arrest in rats] Avrushchenko MSh, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):257–60 **(Rus)**

[Morphochemical changes in brain structures during hypofunction of the dopaminergic system and their correction with tuftsin] Gershtein LM, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):381–3 **(Rus)**

[Activation of transcription of interleukin-2 gene by nuclear factors from the spleen and brain of immunized rats] Kazakova TB, et al. **Biull Eksp Biol Med** 1994 May; 117(5):523–6 **(Rus)**

[Comparative study of lipid peroxidation indicators in the heart, liver and brain of rats with varying resistance to hypoxia] Khachatur'ian ML, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):138–43 **(Rus)**

[Effect of periodic adaptation to hypoxia on oxidative phosphorylation in brain mitochondria from rats with varying tolerance to oxygen insufficiency] Lukianova LD, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):572–5 **(Rus)**

[Energizing and antihypoxic effects of energostime] Luk'ianova LD, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):659–62 **(Rus)**

[Types of the presynaptic M-cholinoreceptors in different regions of rat brain] Podosinovikova NP, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):75–7 **(Rus)**

[Palmitoylcarnitine-important component of lipid bilayer synaptosome membranes reparation system in oxidative stress] Tiurina II, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):649–52 **(Rus)**

[The effect of a peptide extract of fetal brain tissue on the intracellular pH of murine peritoneal phagocytes] Turovetskiĭ VB, et al. **Biull Eksp Biol Med** 1995 Dec; 120(12):626–30 **(Rus)**

[Central K1-opiate receptors and mechanisms of arrhythmogenesis] Ugdyzhekova DS, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):656–8 **(Rus)**

[Catabolism of phosphoinositides after treatment with opioid agonist phenaridin and its antagonist in brain synaptosomes of albion rats in vitro] Vartanian GS, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):405–6 **(Rus)**

[Estimation of fast reversible effects of ethanol and pharmacokinetic prognosis] Zhuk MS, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):673–6 **(Rus)**

[Direct determination of nitric oxide in rat brain during various types of seizures using ESR] Bashkatova VG, et al. **Dokl Akad Nauk** 1996 May;348(1):119–21 **(Rus)**

[Molecular mechanisms of the pathogenetic disruption of phospholipid-chromatin interaction in the white rat brain in the case of unilateral gangliosympathectomy] Karagezian KG, et al. **Dokl Akad Nauk** 1997 Apr;353(6):825–7 **(Rus)**

[Low-energy He-Ne-laser-induced neurochemical changes during brain ischemia/reperfusion and their integral estimation using a factor analysis model] Karagezian KG, et al. **Dokl Akad Nauk** 1996 Oct;350(6):837–41 **(Rus)**

[Seasonal changes in brain synaptosomal membrane lipids in the ground squirrel Citellus undulatus] Kolomiltseva IK, et al. **Dokl Akad Nauk** 1997 Jan;352(3):413–5 **(Rus)**

[Transport of the hexapeptide dalargin across the hemato-encephalic barrier into the brain using polymer nanoparticles] Aliautdin RN, et al. **Eksp Klin Farmakol** 1996 May-Jun;59(3):57–60 (Eng. Abstr.) **(Rus)**

[Methylation changes in brain DNA during immobilization stress in rats] Khanbabian MV, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):106–8 **(Rus)**

[Brain catecholamines and the hypothalamo-hypophyseal-adrenocortical system in hereditary arterial hypertension] Maslova LN, et al. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):30–8 (Eng. Abstr.) **(Rus)**

[Monitoring brain PO2 as a means of predicting brain PN2 changes under hyperbaric oxygenation simulating free-floating conditions] Selivra AI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):98–105 (Eng. Abstr.) **(Rus)**

[Localization of the brain-specific gene Hfb1 at human chromosome X124-26] Polukarova LG, et al. **Genetika** 1996 Jul;32(7):1007–9 (Eng. Abstr.) **(Rus)**

[Change in gene expression in rat brain and lungs in hyperoxia] Kapelinskaia TV, et al. **Mol Biol (Mosk)** 1996 Jul-Aug;30(4):829–37 **(Rus)**

[Effect of research conditions on succinate oxidation in brain mitochondria in circulatory hypoxia] Poborskiĭ AN. **Patol Fiziol Eksp Ter** 1997 Jan-Mar;(1):10–2 (Eng. Abstr.) **(Rus)**

[Effects of low-intensity electromagnetic radiation of extremely high frequency on the animal body within the framework of total low-dose x-ray irradiation] Gubkina EA, et al. **Radiats Biol Radioecol** 1996 Sep-Oct;36(5):722–6 (Eng. Abstr.) **(Rus)**

[Taurine induces an imbalance in the pool of neuroactive amino acids and biogenic amines in regions of the brain] Nefedov LI, et al. **Ukr Biokhim Zh** 1996 Jan-Feb; 68(1):21–6 (Eng. Abstr.) **(Rus)**

[Neurospecific cardioactive protein-hormone complexes in experimental myocardial infarct in rats] Srapionian RM. **Usp Fiziol Nauk** 1996 Jul-Sep;27(3):78–83 (Eng. Abstr.) **(Rus)**

[Local cerebral blood flow and oxygen tension at different stages of surgical intervention in patients with meningiomas of the superior sagittal sinus] Semeniutin VB, et al. **Vestn Khir Im I I Grek** 1996;155(3):9–11 (Eng. Abstr.) **(Rus)**

[Search for expansion of CAG-repeats in DNA sequences expressed in the brain of humans with psychiatric and neurological diseases] Ovchinnikov IV, et al. **Vopr Med Khim** 1996 Oct-Dec;42(4):333–7 (Eng. Abstr.) **(Rus)**

[Involvement of monoamine oxidases in formation of 4-hydroxyphenylethanol, major component of tribulin A] Panova NG, et al. **Vopr Med Khim** 1997 May-Jun; 43(3):172–6 (Eng. Abstr.) **(Rus)**

[Chemiluminescent study of free radical lipid peroxidation in the rabbit brain after cranio-cerebral trauma] Promyslov MSh, et al. **Vopr Med Khim** 1997 Jul-Aug;43(4):208–11 (Eng. Abstr.) **(Rus)**

[The effect of the blockade of the serotonin-modulating protein SMP-69 by antibodies on rat exploratory behavior] Mekhtiev AA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):386–8 **(Rus)**

[The characteristics of the brain serotonin system and anxiety in the C57BL and CBA mouse strains] Popova NK, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):348–54 (Eng. Abstr.) **(Rus)**

[The distribution of serotonin 5-HT1A receptors in the brain of rats genetically predisposed to the development of catalepsy] Popova NK, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):578–82 (Eng. Abstr.) **(Rus)**

[Catecholamine levels and tyrosine hydroxylase activity in the brain structures of male mice with a determined behavioral type in a population] Serova LI, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):552–7 (Eng. Abstr.) **(Rus)**

[Serotonin as a neurotrophic factor in the fetal brain: binding, capture and release in centers of axonal growth] Hernández Rodríguez J. **Gac Med Mex** 1994 Jul-Aug;130(4):246–52 (Eng. Abstr.) **(Spa)**

[Effect of adrenaline on food consumption and C-fos expression in the central nervous system] Racotta IS, et al. **Gac Med Mex** 1995 Jul-Aug;131(4):409–16 (Eng. Abstr.) **(Spa)**

[The antioxidative activity of homogenates and lipids obtained from intact and ischemic organs in rats] Paranich AV, et al. **Fiziol Zh** 1996;42(1-2):31–5 (Eng. Abstr.) **(Ukr)**

MICROBIOLOGY

In vivo activities of ceftriaxone and vancomycin against Borrelia spp. in the mouse brain and other sites. Kazragis RJ, et al. **Antimicrob Agents Chemother** 1996 Nov; 40(11):2632–6

Infection with Plasmodium berghei alters benzodiazepine receptor in rat brain. Kokwaro G, et al. **Arch Med Res** 1997 Autumn;28(3):425–7

Disseminated Fusarium sp. infection affecting the brain of a child after bone marrow transplantation. Bleggi-Torres LF, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1013–5

Rhinocerebral mucormycosis in a patient with AIDS: a complication of diabetic ketoacidosis following pentamidine therapy. Abril V, et al. **Clin Infect Dis** 1996 Oct;23(4):845–6

Use of adjunctive treatment with interferon-gamma in an immunocompromised patient who had refractory multidrug-resistant tuberculosis of the brain. Raad I, et al. **Clin Infect Dis** 1996 Mar;22(3):572–4

Brain injury in bacterial meningitis: therapeutic implications. Pfister HW, et al. **Curr Opin Neurol** 1997 Jun;10(3):254–9 (44 ref.)

Differential binding of Nocardia asteroides in the murine lung and brain suggests multiple ligands on the nocardial surface. Beaman BL. **Infect Immun** 1996 Nov;64(11):4859–62

Finger printing of Mycobacterium tuberculosis in patients with intracranial tuberculomas by using in vivo, ex vivo, and in vitro magnetic resonance spectroscopy. Gupta RK, et al. **Magn Reson Med** 1996 Dec;36(6):829–33

Neutrophil depletion increases susceptibility to systemic and vaginal candidiasis in mice, and reveals differences between brain and kidney in mechanisms of host resistance. Fulurija A, et al. **Microbiology** 1996 Dec;142 (Pt 12):3487–96

Nosocomial cerebral aspergillosis: a report of 3 cases. Darras-Joly C, et al. **Scand J Infect Dis** 1996;28(3):317–9 (28 ref.)

[Neurological manifestations in patients with sera positive for Borrelia burgdorferi (see comments) (published erratum appears in Neurologia 1997 May;12(5):200)] Corral I, et al. **Neurologia** 1997 Jan;12(1):2–8 (Eng. Abstr.). Comment in: Neurologia 1997 Jun-Jul;12(6):268–9. **(Spa)**

PARASITOLOGY

Chronic parasite infection in mice induces brain granulomas and differentially alters brain nerve growth factor levels and thermal responses in paws. Aloe L, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):300–5

Disseminated microsporidiosis especially infecting the brain, heart, and kidneys. Report of a newly recognized pansporoblastic species in two symptomatic AIDS patients.

Yachnis AT, et al. **Am J Clin Pathol** 1996 Oct;106(4):535–43

A correlation of the sequestration rate of Plasmodium coatneyi–infected erythrocytes in cerebral and subcutaneous tissues of a rhesus monkey. Nakano Y, et al. **Am J Trop Med Hyg** 1996 Sep;55(3):311–4

Antibody responses measured by various serologic tests in pigs orally inoculated with low numbers of Toxoplasma gondii oocysts. Dubey JP, et al. **Am J Vet Res** 1996 Dec; 57(12):1733–7

Detection of Toxoplasma gondii tachyzoites and bradyzoites in blood, urine, and brains of infected mice. Nguyen TD, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):635–9

Photo Quiz. Neurocysticercosis. Dylewski J, et al. **Clin Infect Dis** 1996 Oct;23(4):711, 809

Effect of ivermectin on the migration of Baylisascaris transfuga larvae into the brain of mice. Papini R, et al. **Folia Parasitol (Praha)** 1996;43(2):157–8

Wry neck in rabbits [letter] Feaga WP. **J Am Vet Med Assoc** 1997 Feb 15;210(4):480

Psychiatric manifestations of neurocysticercosis: a study of 38 patients from a neurology clinic in Brazil. Forlenza OV, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):612–6

Chronic infection with Toxoplasma gondii does not prevent acute disease or colonization of the brain with tissue cysts following reinfection with different strains of the parasite. Araujo F, et al. **J Parasitol** 1997 Jun;83(3):521–2

Separation and cryopreservation of Neospora caninum tissue cysts from murine brain. McGuire AM, et al. **J Parasitol** 1997 Apr;83(2):319–21

Pyogranulomatous encephalitis associated with an unidentified Sarcocystis neurona–like organism in a horse. Hamir AN, et al. **J Vet Diagn Invest** 1997 Jul;9(3):331–3

Prouterina wescotti n. gen., n. sp. (Trematoda: Prouterinidae N. Fam.) from the brain, lungs, and nasal sinuses of a black bear (Ursus americanus) from Idaho. Foreyt WJ, et al. **J Wildl Dis** 1996 Apr;32(2):225–33

Host cells of Toxoplasma gondii encystation in infected primary culture from mouse brain. Fischer HG, et al. **Parasitol Res** 1997;83(7):637–41

Stage conversion of Toxoplasma gondii in mouse brain during infection and immunodepression. Odaert H, et al. **Parasitol Res** 1996;82(1):28–31

Cyst formation by Toxoplasma gondii in vivo and in brain–cell culture: a comparative morphology and immunocytochemistry study. Sahm M, et al. **Parasitol Res** 1997;83(7):659–65

Eosinophilia and intracranial worm recovery in interleukin–5 transgenic and interleukin–5 receptor alpha chain–knockout mice infected with Angiostrongylus cantonensis. Sugaya H, et al. **Parasitol Res** 1997; 83(6):583–90

Patterns of haemozoin accumulation in tissue. Sullivan AD, et al. **Parasitology** 1996 Mar;112 (Pt 3):285–94

PATHOLOGY

Benefits of cerebral magnetic resonance imaging examinations with normal results. Caillé JM, et al. **Acad Radiol** 1996 Apr;3 Suppl 1:S38–9

Magnetic resonance imaging of normal meningeal enhancement at 1.5 T. Quint DJ, et al. **Acad Radiol** 1996 Jun;3(6):463–8

Quantitation of T2 lesion load in multiple sclerosis with magnetic resonance imaging: a pilot study of a probabilistic neural network approach. Raff U, et al. **Acad Radiol** 1997 Jun;4(6):431–7

Delayed neuronal damage following focal ischemic injury in stroke–prone spontaneously hypertensive rats. Shima K, et al. **Acta Neurochir Suppl (Wien)** 1996;67:24–7

Dipole modelling and intracranial EEG recording: correlation between dipole and ictal onset zone. Boon P, et al. **Acta Neurochir (Wien)** 1997;139(7):643–52

Adult neuronal ceroid–lipofuscinosis––personal observations. Martin JJ, et al. **Acta Neurol Belg** 1997 Jun;97(2):85–92

Quantitative cerebral MRI in epileptic patients. Bekkelund SI, et al. **Acta Neurol Scand** 1996 Dec;94(6):378–82

Semi–automated thresholding technique for measuring lesion volumes in multiple sclerosis: effects of the change of the threshold on the computed lesion loads. Filippi M, et al. **Acta Neurol Scand** 1996 Jan;93(1):30–4

Sensitivity of delayed gadolinium–enhanced MRI in multiple sclerosis. Filippi M, et al. **Acta Neurol Scand** 1997 Jun; 95(6):331–4

Mortality from primary malignant brain tumors in the Province of Bologna, Italy, 1986–1988. Fiorani L, et al. **Acta Neurol Scand** 1996 May;93(5):355–9

Serial Gadolinium–enhanced MRI in untreated patients with acute optic neuritis: implications for natural history. Frederiksen JL, et al. **Acta Neurol Scand** 1997 Jul; 96(1):22–7

Autosomal recessive paraparesis with amyotrophy of hands and feet and white matter lesions. Malandrini A, et al. **Acta Neurol Scand** 1996 Jul;94(1):60–2

Striatal dopaminergic loss without parkinsonism in a case of corticobasal degeneration. Marshall EF, et al. **Acta Neurol Scand** 1997 May;95(5):287–92

Structural consequences of status epilepticus demonstrated with serial magnetic resonance imaging. Meierkord H, et al. **Acta Neurol Scand** 1997 Sep;96(3):127–32

The neurochemistry of Alzheimer's disease. Blennow K, et al. **Acta Neurol Scand Suppl** 1996;168:77–86 (129 ref.)

Magnetic resonance imaging and computed tomography in Alzheimer's disease. Wahlund LO. **Acta Neurol Scand Suppl** 1996;168:50–3 (47 ref.)

Degeneration of the cerebellar dentate nucleus and the inferior olivary nuclei in HIV–1–infected brains: a morphometric analysis. Abe H, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):150–5

Up–regulation of major histocompatibility complex class II antigen expression in the central nervous system of dogs with spontaneous canine distemper virus encephalitis. Alldinger S, et al. **Acta Neuropathol (Berl)** 1996 Sep; 92(3):273–80

Chronic parasite infection in mice induces brain granulomas and differentially alters brain nerve growth factor levels and thermal responses in paws. Aloe L, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):300–5

Recent advances in defining the neuropathology of schizophrenia. Arnold SE, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):217–31 (153 ref.)

Expression of various TGF–beta isoforms and type I receptor in necrotizing human brain lesions. Ata AK, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):326–33

A laser microprobe mass analysis of trace elements in brain mineralizations and capillaries in Fahr's disease. Bouras C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):351–7

Nature and sequence of simian immunodeficiency virus–induced central nervous system lesions: a kinetic study. Czub S, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):487–98

Increasing or decreasing nervous activity modulates the severity of the glio–vascular lesions of 1,3–dinitrobenzene in the rat: effects of the tremorgenic pyrethroid, Bifenthrin, and of anaesthesia. Holton JL, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):159–65

Distribution of amyloid deposits in the cerebral white matter of the Alzheimer's disease brain: relationship to blood vessels. Iwamoto N, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):334–40

Localization of Menkes gene expression in the mouse brain; its association with neurological manifestations in Menkes model mice. Iwase T, et al. **Acta Neuropathol (Berl)** 1996; 91(5):482–8

Apoptosis in the aged dog brain. Kiatipattanasakul W, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):242–8

Microencephaly in children congenitally infected with human immunodeficiency virus––a gross–anatomical morphometric study. Kozlowski PB, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):136–45

Neuropathology of murine mucopolysaccharidosis type VII. Levy B, et al. **Acta Neuropathol (Berl)** 1996 Dec; 92(6):562–8

An unusual type of primary cerebral hemihypotrophy with signs of dysfunctional neuronal migration. Malandrini A, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):631–4

Neuropathology in non–human immunodeficiency virus–infected drug addicts: hypoxic brain damage after chronic intravenous drug abuse. Oehmichen M, et al. **Acta Neuropathol (Berl)** 1996;91(6):642–6

Uptake of inorganic mercury by the human brain. Pamphlett R, et al. **Acta Neuropathol (Berl)** 1996 Nov;92(5):525–7

Phenotypic variability of CADASIL and novel morphologic findings. Rubio A, et al. **Acta Neuropathol (Berl)** 1997 Sep; 94(3):247–54

Fatal reaction from inadvertent intrathecal entry of ionic contrast medium during a nephrogram. Sahjpaul RL, et al. **Acta Neuropathol (Berl)** 1997 Jan;93(1):101–3 (11 ref.)

Endothelial damage in piglet brains during cardiorespiratory failure [letter; comment] Temesvári P, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):428–30. Comment on: Acta Neuropathol (Berl) 1995;90(6):582–91.

Regressive changes of astroglia in white matter lesions in cerebrovascular disease and Alzheimer's disease patients. Tomimoto H, et al. **Acta Neuropathol (Berl)** 1997 Aug; 94(2):146–52

Differential expression of intercellular adhesion molecule–1 (ICAM–1) in the A beta–containing lesions in brains of patients with dementia of the Alzheimer type. Verbeek MM, et al. **Acta Neuropathol (Berl)** 1996;91(6):608–15

Expression of interleukin–1 receptor antagonist protein in post–mortem human brain tissues of Alzheimer's disease and control cases. Yasuhara O, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):414–20

Pure akinesia manifested neuroleptic malignant syndrome: a clinical variant of progressive supranuclear palsy. Yoshikawa H, et al. **Acta Neuropathol (Berl)** 1997 Mar; 93(3):306–9

Magnetic resonance imaging in children with neonatal asphyxia: correlation with developmental sequelae. Yokochi K, et al. **Acta Paediatr** 1996 Jan;85(1):88–95

Acute disseminated encephalomyelitis associated with Mycoplasma pneumoniae infection. Yamamoto K, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):46–51

Neuroimage in infants and children with mitochondrial disorders. Shian WJ, et al. **Acta Paediatr Sin** 1996 Mar–Apr; 37(2):96–102

MRI findings in patients with affective disorder: a meta–analysis. Videbech P. **Acta Psychiatr Scand** 1997 Sep; 96(3):157–68

Time–dependency in brain lesion enhancement with gadodiamide injection. Akeson P, et al. **Acta Radiol** 1997 Jan;38(1):19–24

Brain lesion contrast in MR imaging. Dependence on field strength and concentration of gadodiamide injection in patients and phantoms. Akeson P, et al. **Acta Radiol** 1997 Jan;38(1):14–8

MR imaging of experimental subdural bleeding. Correlates of brain deformation and tissue water content, and changes in vital physiological parameters. Orlin JR, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):610–20

Understanding functional neuroimaging methods based on neurovascular coupling. Villringer A. **Adv Exp Med Biol** 1997;413:177–93 (134 ref.)

HIV–associated brain pathology in the United Kingdom: an epidemiological study. Davies J, et al. **AIDS** 1997 Jul 15; 11(9):1145–50

Central brain atrophy in childhood AIDS encephalopathy. Scarmato V, et al. **AIDS** 1996 Sep;10(11):1227–31

Cerebral proton magnetic resonance spectroscopy in asymptomatic HIV infection. Wilkinson ID, et al. **AIDS** 1997 Mar;11(3):289–95

A multicenter proton magnetic resonance spectroscopy study of neurological complications of AIDS. Paley M, et al. **AIDS Res Hum Retroviruses** 1996 Feb 10;12(3):213–22

Annotated bibliography. Altman N, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):197–8

Brain structure and epilepsy: the impact of modern imaging [comment] Andermann F. **AJNR Am J Neuroradiol** 1997 Feb;18(2):302–6. Comment on: AJNR Am J Neuroradiol 1997 Feb;18(2):291–301.

Fast spin–echo and fast fluid–attenuated inversion–recovery versus conventional spin–echo sequences for MR quantification of multiple sclerosis lesions. Bastianello S, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):699–704

MR–based brain and cerebrospinal fluid measurement after traumatic brain injury: correlation with neuropsychological outcome. Blatter DD, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):1–10

Enhanced and unenhanced MR with magnetization transfer in multiple sclerosis. Bozzao A, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1837–42

Central nervous system cryptococcosis: parenchymal calcification and large gelatinous pseudocysts. Caldemeyer KS, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):107–9

Multifocal hypointense cerebral lesions on gradient–echo MR are associated with chronic hypertension. Chan S, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1821–7

Brain MR in chronic fatigue syndrome. Greco A, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1265–9

MR of spastic tetraplegia. Hayakawa K, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):247–53

MR spectroscopy in the evaluation of enhancing lesions in the brain in multiple sclerosis. Hirsch JA, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1829–36

Clinical assessment of MR of the brain in nonsurgical inpatients [see comments] Hirsch JA, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1245–53. Comment in: AJNR Am J Neuroradiol 1996 Aug;17(7):1255–8.

Epilepsy: structural or functional? [letter; comment] Jack CR Jr. **AJNR Am J Neuroradiol** 1996 Feb;17(2):246. Comment on: AJNR Am J Neuroradiol 1996 Feb;17(2):243.

Assessment of brain changes with registered MR before and after bone marrow transplantation for chronic myeloid leukemia. Jäger HR, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1275–82

Hypertensive encephalopathy in children. Jones BV, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):101–6

MR of childhood metachromatic leukodystrophy. Kim TS, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):733–8

MR enhancement of brain lesions: increased contrast dose compared with magnetization transfer. Knauth M, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1853–9

Extraneous lipid contamination in single–volume proton MR spectroscopy: phantom and human studies. Kwock L, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1349–57

White matter changes associated with deletions of the long arm of chromosome 18 (18q– syndrome): a dysmyelinating disorder? Loevner LA, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1843–8

Fast spin–echo MR of contact points on implanted intracerebral stainless steel multicontact electrodes. Meiners LC, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec; 17(10):1815–9

Computer–assisted quantitation of enhancing lesions in multiple sclerosis: correlation with clinical classification. Miki Y, et al. **AJNR Am J Neuroradiol** 1997 Apr; 18(4):705–10

Epilepsy: structural or functional [letter; comment] Morrell F. **AJNR Am J Neuroradiol** 1996 Feb;17(2):245–6. Comment on: AJNR Am J Neuroradiol 1996 Feb;17(2):243.

Multiple sclerosis lesions: relationship between MR enhancement pattern and magnetization transfer effect. Petrella JR, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul; 17(6):1041–9

Cortical and subcortical T2 shortening in multiple sclerosis. Russo C, et al. **AJNR Am J Neuroradiol** 1997 Jan; 18(1):124–6

Detection of subtle changes in the brains of infants and children via subvoxel registration and subtraction of serial MR images. Rutherford MA, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):829–35

Utility of repeat brain imaging in stroke [see comments] Schneider LB, et al. **AJNR Am J Neuroradiol** 1996 Aug; 17(7):1259–63. Comment in: AJNR Am J Neuroradiol 1996 Aug;17(7):1265–6.

Tissue segmentation of the brain in Alzheimer disease. **Tanabe JL**, et al. **AJNR Am J Neuroradiol** 1997 Jan; 18(1):115–23

Corticobasal degeneration: MR with histopathologic comparison. Tokumaru AM, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1849–52

Fast fluid–attenuated inversion–recovery MR of intracranial infections. Tsuchiya K, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):909–13

Granulomatous amebic encephalitis caused by leptomyxid amebae in an HIV–infected patient. Zagardo MT, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):903–8

A systematic approach for interpreting MR images of the seizure patient. Bronen RA, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):241–7

Pantopaque droplets: another cause of hyperintensity on unenhanced T1–weighted MR images of the brain [letter] Duvoisin B, et al. **AJR Am J Roentgenol** 1997 Feb; 168(2):569

Typical and atypical MR imaging features of intracranial epidermoid tumors. Kallmes DF, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):883–7

Cranial MR imaging in Wilson's disease. King AD, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1579–84

Neuroradiology case of the day. Dysembryoplastic neuroepithelial tumor. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):293, 297–8

Neuroradiology case of the day. Leptomeningeal melanocytosis. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):294, 299

Neuroradiology case of the day. CNS cryptococcal infection. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):295, 299

Neuroradiology case of the day. Multiple cerebral abscesses associated with isolated pulmonary arteriovenous malformation. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):296, 299–302

Patients with antiphospholipid antibodies: CT and MR findings of the brain. Provenzale JM, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1573–8

Surface anatomy MR scanning of the brain using HASTE sequences. Tsuchiya K, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1585–7

Magnetic resonance imaging in alcoholic Korsakoff's syndrome: evidence for an association with alcoholic dementia. Emsley R, et al. **Alcohol Alcohol** 1996 Sep; 31(5):479–86

Alteration of glutamyltranspeptidase binding proteins in postmortem brains of heroin addicts. Hashimoto E, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):301A–304A

Cortical and subcortical white matter damage without Wernicke's encephalopathy after recovery from thiamine deficiency in the rat. Langlais PJ, et al. **Alcohol Clin Exp Res** 1997 May;21(3):434–43

Spatial pattern analysis of beta–amyloid (A beta) deposits in Alzheimerdisease by linear regression. Armstrong RA, et al. **Alzheimer Dis Assoc Disord** 1996 Spring;10(1):40–5

Hereditary cerebral hemorrhage with amyloidosis–Dutch type: better correlation of cognitive deterioration with advancing age than with number of focal lesions or white matter hyperintensities. Bornebroek M, et al. **Alzheimer Dis Assoc Disord** 1996 Winter;10(4):224–31

Quantitative anatomic measures and comorbid medical illness in late–life major depression. Kumar A, et al. **Am J Geriatr Psychiatry** 1997 Winter;5(1):15–25

Bulky plasmacytoma of the skull with intracranial involvement [letter; comment] Savas MC, et al. **Am J Hematol** 1997 Feb;54(2):173. Comment on: Am J Hematol 1996 May;52(1):60–1.

Bilateral porencephaly, cerebellar hypoplasia, and internal malformations: two siblings representing a probably new autosomal recessive entity. Bönnemann CG, et al. **Am J Med Genet** 1996 Jun 14;63(3):428–33

Magnetic resonance imaging of the brain in Williams–Beuren syndrome [letter] Brinkmann G, et al. **Am J Med Genet** 1997 Jan 20;68(2):243

Abnormal head MRI in a neurologically normal boy with hypomelanosis of Ito. Fryburg JS, et al. **Am J Med Genet** 1996 Dec 11;66(2):200–3

Fetal alcohol syndrome: craniofacial and central nervous system manifestations. Johnson VP, et al. **Am J Med Genet** 1996 Feb 2;61(4):329–39

The neuroimaging findings in Sotos syndrome. Schaefer GB, et al. **Am J Med Genet** 1997 Feb 11;68(4):462–5

Ehlers–Danlos syndrome type VIII and leukodystrophy. Spranger S, et al. **Am J Med Genet** 1996 Dec 11; 66(2):239–40

Absence of neuronal damage after umbilical cord occlusion of 10, 15, and 20 minutes in midgestation fetal sheep. Keunen H, et al. **Am J Obstet Gynecol** 1997 Mar; 176(3):515–20

Amniotic fluid inflammatory cytokines (interleukin–6, interleukin–1beta, and tumor necrosis factor–alpha), neonatal brain white matter lesions, and cerebral palsy. Yoon BH, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):19–26

Expression of the receptor for complement C5a (CD88) is up–regulated on reactive astrocytes, microglia, and endothelial cells in the inflamed human central nervous system. Gasque P, et al. **Am J Pathol** 1997 Jan;150(1):31–41

Presenilin–1 is associated with Alzheimer's disease amyloid. Wisniewski T, et al. **Am J Pathol** 1997 Aug;151(2):601–10

Meta–analysis of postmortem studies of Alzheimer's disease–like neuropathology in schizophrenia. Baldessarini RJ, et al. **Am J Psychiatry** 1997 Jun;154(6):861–3

Neuroimmunological aspects of fetus and newborn brain damage in complicated pregnancy. Borodin Y, et al. **Am J Reprod Immunol** 1996 Apr;35(4):421–8

Multifocal neurocytoma/gangliocytoma with extensive leptomeningeal dissemination in the brain and spinal cord [see comments] Yamamoto T, et al. **Am J Surg Pathol** 1996 Mar;20(3):363–70. Comment in: Am J Surg Pathol 1997 Feb;21(2):258–9.

Automated identification and quantitative morphometry of the senile plaques of Alzheimer's disease. Hibbard LS, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):123–38

Serum S–100 protein, relationship to clinical outcome in acute stroke. Abraha HD, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):546–50

Leukoaraiosis and lacunar infarcts in ischemic stroke: role of age and vascular risk factors. Le Pira F, et al. **Ann Ital Med Int** 1997 Apr–Jun;12(2):72–5

MRI reveals gross structural abnormalities in PTSD. Canive JM, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:512–5

Structural brain changes in PTSD. Does trauma alter neuroanatomy? Stein MB, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:76–82 (59 ref.)

MRI–MRS of the brain in systemic lupus erythematosus. How do we use it to understand causes of clinical signs? Tanabe J, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:169–84 (53 ref.)

Automated light microscopy for the study of the brain: cellular and molecular dynamics, development, and tumorigenesis. Taylor DL, et al. **Ann N Y Acad Sci** 1997 May 30;820:208–28 (57 ref.)

Brain–mapping neurotoxicity and neuropathology. Toga AW. **Ann N Y Acad Sci** 1997 May 30;820:1–13 (50 ref.)

Imaging studies of cocaine in the human brain and studies of the cocaine addict. Volkow ND, et al. **Ann N Y Acad Sci** 1997 May 30;820:41–54; discussion 54–5 (50 ref.)

Memory, learning ability, and neuropathologic status of mice with systemic lupus erythematosus. Walker SE, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:107–15

Enlargement of human cerebral ischemic lesion volumes measured by diffusion–weighted magnetic resonance imaging [see comments] Baird AE, et al. **Ann Neurol** 1997 May;41(5):581–9. Comment in: Ann Neurol 1997 May;41(5):567–8.

Cerebral generators involved in the pathogenesis of the restless legs syndrome. Bucher SF, et al. **Ann Neurol** 1997 May;41(5):639–45

Clinical and molecular genetic features of congenital spinal muscular atrophy. Devriendt K, et al. **Ann Neurol** 1996 Nov;40(5):731–8

A high–resolution three–dimensional T1–weighted gradient echo sequence improves the detection of disease activity in multiple sclerosis. Filippi M, et al. **Ann Neurol** 1996 Dec; 40(6):901–7

Neuronal loss correlates with but exceeds neurofibrillary tangles in Alzheimer's disease. Gómez–Isla T, et al. **Ann Neurol** 1997 Jan;41(1):17–24

Correlation of clinical, magnetic resonance imaging, and cerebrospinal fluid findings in optic neuritis. Jacobs LD, et al. **Ann Neurol** 1997 Mar;41(3):392–8

Validity of brain MRI as the primary outcome criterion in multiple sclerosis phase II clinical trials [letter] Liedtke W, et al. **Ann Neurol** 1996 Feb;39(2):276–7

Ischemic lesion volumes in acute stroke by diffusion–weighted magnetic resonance imaging correlate with clinical outcome. Lövblad KO, et al. **Ann Neurol** 1997 Aug;42(2):164–70

Deficient glutamate transport is associated with neurodegeneration in Alzheimer's disease. Masliah E, et al. **Ann Neurol** 1996 Nov;40(5):759–66

Familial spongiform encephalopathy associated with a novel prion protein gene mutation. Nitrini R, et al. **Ann Neurol** 1997 Aug;42(2):138–46

Clinical features of neocortical temporal lobe epilepsy. Pacia SV, et al. **Ann Neurol** 1996 Nov;40(5):724–30

Dopaminergic function in familial Parkinson's disease: a clinical and 18F–dopa positron emission tomography study. Piccini P, et al. **Ann Neurol** 1997 Feb;41(2):222–9

Linear scleroderma and intractable epilepsy: neuropathologic evidence for a chronic inflammatory process [letter] Pupillo G, et al. **Ann Neurol** 1996 Feb;39(2):277–8

Bilateral parasagittal parietooccipital polymicrogyria and epilepsy [letter; comment] Sotrel A. **Ann Neurol** 1997 Aug; 42(2):272–3. Comment on: Ann Neurol 1997 Jan;41(1):65–73.

The pathology of Alzheimer's disease: numbers count [editorial] Terry RD. **Ann Neurol** 1997 Jan;41(1):7

Magnetic resonance imaging in classification of congenital muscular dystrophies with brain abnormalities. van der Knaap MS, et al. **Ann Neurol** 1997 Jul;42(1):50–9

Tuberin loss from cerebral tissues [letter; comment] Vinters HV, et al. **Ann Neurol** 1997 Aug;42(2):270–2. Comment on: Ann Neurol 1996 Dec;40(6):941–4.

Cerebral blood flow and vascular response to hypercapnia in hypertensive patients with leukoaraiosis. Kuwabara Y, et al. **Ann Nucl Med** 1996 Aug;10(3):293–8

Diagnosis of HIV–related primary central nervous system lymphoma: is there still a role for brain biopsy? A case history. Viale P, et al. **Ann Oncol** 1997 May;8(5):491–6

Apolipoprotein E and Alzheimer's disease. Strittmatter WJ, et al. **Annu Rev Neurosci** 1996;19:53–77 (90 ref.)

Pilot MRI study of brain size in nervous pointer dogs. George MS, et al. **Anxiety** 1994–95;1(3):129–33

Microvascular degeneration in hereditary cystatin C amyloid angiopathy of the brain. Wang ZZ, et al. **APMIS** 1997 Jan;105(1):41–7

Diffusion weighted magnetic resonance imaging of compromised tissue in stroke. Connelly A, et al. **Arch Dis Child** 1997 Jul;77(1):38–41

Hypoxic–ischaemic encephalopathy: early and late magnetic resonance imaging findings in relation to outcome [see comments] Rutherford M, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov;75(3):F145–51 . Comment in: Arch Dis Child Fetal Neonatal Ed 1997 Jul;77(1):F78–9.

Psychiatric outcomes in low–birth–weight children at age 6 years: relation to neonatal cranial ultrasound abnormalities [see comments] Whitaker AH, et al. **Arch Gen Psychiatry** 1997 Sep;54(9):847–56. Comment in: Arch Gen Psychiatry 1997 Sep;54(9):785–9.

Neuroanatomical substrates of late–life minor depression. A quantitative magnetic resonance imaging study. Kumar A, et al. **Arch Neurol** 1997 May;54(5):613–7

Frozen section evaluation of stereotactic brain biopsies: diagnostic yield at the stereotactic target position in 188 cases. Brainard JA, et al. **Arch Pathol Lab Med** 1997 May; 121(5):481–4

Stereotactic brain biopsies: specimen preparation and evaluation. Burger PC, et al. **Arch Pathol Lab Med** 1997 May;121(5):477–80

Rapid brain autopsy. The Joseph and Kathleen Bryan Alzheimer's Disease Research Center experience. Hulette CM, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):615–8

Brain cell lesions in Borna disease are mediated by T cells. Bilzer T, et al. **Arch Virol Suppl** 1993;7:153–8 (20 ref.)

Establishment of cell lines from bovine brain. Uysal A, et al. **Arch Virol Suppl** 1993;7:303–8

Magnetic resonance imaging of the brain and cerebral proton spectroscopy in patients with systemic lupus erythematosus. Chinn RJ, et al. **Arthritis Rheum** 1997 Jan;40(1):36–46

Magnetic resonance imaging studies on the effect of the fibrinogen–lowering agent ancrod on cerebral lesions in two rat models of acute stroke. Elger B, et al. **Arzneimittelforschung** 1997 Aug;47(8):895–9

Post–treatment of transient focal cerebral ischemia in rats with the novel cerebrovascular–selective Ca2+ channel antagonist (+/–)–(E)–1–(3–fluoro–6,11–dihydrodibenz[b,e]–oxepine–11–yl)–4–(3–pheny l–2–propenyl)–piperazine dimaleate. Minato H, et al. **Arzneimittelforschung** 1997 Jul; 47(7):799–802

Brain MRI findings in two cases with eclampsia. Unal M, et al. **Australas Radiol** 1996 Aug;40(3):348–50 (13 ref.)

Neonatal multifocal encephalomalacia and other lesions in the brains of Georgia chicks: 1991–95. Goodwin MA, et al. **Avian Dis** 1996 Oct–Dec;40(4):894–9

Cerebral gliomas. Pathology and biological 'markers'. Collins VP. **Baillieres Clin Neurol** 1996 Jun;5(2):271–93 (112 ref.)

Molecular genetics and tumour suppressor genes in gliomas. Kyritsis AP, et al. **Baillieres Clin Neurol** 1996 Jun; 5(2):295–305 (78 ref.)

Quality of life and neurobehavioural functioning in patients with malignant gliomas. Weitzner MA, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):425–39 (64 ref.)

Isolation, chemical characterization, and quantitation of A beta 3–pyroglutamyl peptide from neuritic plaques and vascular amyloid deposits. Kuo YM, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):188–91

Endogenous interleukin–1 receptor antagonist is neuroprotective. Loddick SA, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):211–5

Detection of apoptosis in the brain of the zitter rat with genetic spongiform encephalopathy. Ookohchi T, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):279–84

Serotonergic, noradrenergic, and dopaminergic measures in suicide brains. Arranz B, et al. **Biol Psychiatry** 1997 May 15;41(10):1000–9

Subcortical hyperintensities on magnetic resonance imaging in patients with severe depression—a longitudinal evaluation. Hickie I, et al. **Biol Psychiatry** 1997 Sep 1; 42(5):367–74

A quantitative magnetic resonance imaging study of cerebral and cerebellar gray matter volume in primary unipolar major depression: relationship to treatment response and clinical severity. Pillay SS, et al. **Biol Psychiatry** 1997 Jul 15;42(2):79–84

MRI brain abnormalities in chronic schizophrenia: one process or more? Woods BT, et al. **Biol Psychiatry** 1996 Oct 1;40(7):585–96

Monkey neurovirulence test for live mumps vaccine. Maximova O, et al. **Biologicals** 1996 Sep;24(3):223–4

In situ characterization of beta–amyloid in Alzheimer's diseased tissue by synchrotron Fourier transform infrared microspectroscopy. Choo LP, et al. **Biophys J** 1996 Oct; 71(4):1672–9

Bone marrow transplantation in acid sphingomyelinase–deficient mice: engraftment and cell migration into the brain as a function of radiation, age, and phenotype. Miranda SR, et al. **Blood** 1997 Jul 1; 90(1):444–52

Reversible brain MRI changes in acyclovir neurotoxicity. Blohm ME, et al. **Bone Marrow Transplant** 1997 May;

19(10):1049–51
Unusual multicystic lesions of the brainstem are mesencephalo–thalamic expanding lacunae [letter; comment] [see comments] Poirier J. **Br J Neurosurg** 1997 Feb;11(1):87–8 (6 ref.). Comment on: Br J Neurosurg 1996 Apr;10(2):193–6. Comment in: Br J Neurosurg 1997 Jun;11(3):265.
Intracranial angiolipoma: report of two cases. Prabu SS, et al. **Br J Neurosurg** 1995;9(6):793–7
Gene therapy for brain tumours [editorial] Whittle IR. **Br J Neurosurg** 1995;9(6):717–20
White matter lesions in depression and Alzheimer's disease [letter; comment] O'Brien JT, et al. **Br J Psychiatry** 1996 Nov;169(5):671. Comment on: Br J Psychiatry 1996 Jul;169(1):114.
Biological determinants of difficult to treat patients with schizophrenia. Sharma T, et al. **Br J Psychiatry Suppl** 1996 Dec;(31):5–9 (45 ref.)
Imaging as a tool in exploring the neurodevelopment and genetics of schizophrenia. Frangou S, et al. **Br Med Bull** 1996 Jul;52(3):587–96 (46 ref.)
Structural brain imaging in biological psychiatry. Lewis S. **Br Med Bull** 1996 Jul;52(3):465–73 (33 ref.)
Neuropsychology—dementia and affective disorders. Robbins TW, et al. **Br Med Bull** 1996 Jul;52(3):627–43 (47 ref.)
Autosomal dominant cerebellar ataxia type I clinical features and MRI in families with SCA1, SCA2 and SCA3. Bürk K, et al. **Brain** 1996 Oct;119 (Pt 5):1497–505
Quantitative assessment of MRI lesion load in multiple sclerosis. A comparison of conventional spin–echo with fast fluid–attenuated inversion recovery. Filippi M, et al. **Brain** 1996 Aug;119 (Pt 4):1349–55
Clinicopathological features of familial Alzheimer's disease associated with the M139V mutation in the presenilin 1 gene. Pedigree but not mutation specific age at onset provides evidence for a further genetic factor. Fox NC, et al. **Brain** 1997 Mar;120 (Pt 3):491–501
Progressive cerebral atrophy in multiple sclerosis. A serial MRI study. Losseff NA, et al. **Brain** 1996 Dec;119 (Pt 6):2009–19
Central nervous system pathology in patients with the Guillain–Barré syndrome. Maier H, et al. **Brain** 1997 Mar; 120 (Pt 3):451–64
The nucleus raphe interpositus in the Steele–Richardson–Olszewski syndrome (progressive supranuclear palsy). Revesz T, et al. **Brain** 1996 Aug;119 (Pt 4):1137–43
Three–dimensional brain visualization for metachromatic leukodystrophy. Minamikawa–Tachino R, et al. **Brain Dev** 1996 Sep–Oct;18(5):394–9
Endocrine modulators of necrotic neuron death. Chan RS, et al. **Brain Pathol** 1996 Oct;6(4):481–91 (138 ref.)
Mechanisms of neuronal death in Alzheimer's disease. Cotman CW, et al. **Brain Pathol** 1996 Oct;6(4):493–506 (83 ref.)
Pathological aging in Africans: a benign form of cerebral amyloidosis vs. pre–clinical Alzheimer's disease? [editorial; comment] Dickson DW. **Brain Pathol** 1996 Apr;6(2):107–8 . Comment on: Brain Pathol 1996 Apr;6(2):101–7.
Mouse inoculation studies reveal no transmissible agent in amyotrophic lateral sclerosis [see comments] Fraser H, et al. **Brain Pathol** 1996 Apr;6(2):89–99. Comment in: Brain Pathol 1996 Apr;6(2):99–100.
Prion protein amyloidosis. Ghetti B, et al. **Brain Pathol** 1996 Apr;6(2):127–45 (90 ref.)
Neuropathology of early HIV–1 infection. Gray F, et al. **Brain Pathol** 1996 Jan;6(1):1–15 (107 ref.)
Pathology and immunocytochemistry of a kuru brain. Hainfellner JA, et al. **Brain Pathol** 1997 Jan;7(1):547–53
Review: Creutzfeldt–Jakob disease. Ironside JW. **Brain Pathol** 1996 Oct;6(4):379–88 (83 ref.)
Similarity of neuronal cell injury and death in AIDS dementia and focal cerebral ischemia: potential treatment with NMDA open–channel blockers and nitric oxide–related species. Lipton SA. **Brain Pathol** 1996 Oct;6(4):507–17 (117 ref.)
The search for a transmissible agent in ALS [editorial; comment] Love S. **Brain Pathol** 1996 Apr;6(2):99–100 (21 ref.). Comment on: Brain Pathol 1996 Apr;6(2):89–99.
Distinct patterns of multiple sclerosis pathology indicates heterogeneity on pathogenesis. Lucchinetti CF, et al. **Brain Pathol** 1996 Jul;6(3):259–74 (94 ref.)
Hereditary cerebral hemorrhage with amyloidosis–Dutch type (HCHWA–D): II—A review of histopathological aspects. Maat–Schieman ML, et al. **Brain Pathol** 1996 Apr; 6(2):115–20 (54 ref.)
Cerebral amyloid beta protein deposits and other Alzheimer lesions in non–demented elderly east Africans [see comments] Ogeng'o JA, et al. **Brain Pathol** 1996 Apr; 6(2):101–7. Comment in: Brain Pathol 1996 Apr;6(2):107–8.
Inherited neurodegenerative diseases and transgenic models. Price DL, et al. **Brain Pathol** 1996 Oct;6(4):467–80 (220 ref.)
Does tuberin function as a tumor suppressor in the cerebral lesions of tuberous sclerosis? Early observations [editorial; comment] Short MP. **Brain Pathol** 1996 Oct;6(4):375–6. Comment on: Brain Pathol 1996 Oct;6(4):367–77.
Brain parenchymal and microvascular amyloid in Alzheimer's disease. Vinters HV, et al. **Brain Pathol** 1996 Apr;6(2):179–95 (169 ref.)
Tuberous sclerosis and tuberin: what do we learn from in situ localization data in the human brain? [editorial; comment] Wiestler OD, et al. **Brain Pathol** 1996 Oct; 6(4):376–7. Comment on: Brain Pathol 1996 Oct;6(4):367–77.
The ontogeny of a neurotoxic lesion in rat brain revealed by combined MRI and histology. Ben–Horin N, et al. **Brain Res** 1996 Apr 29;718(1–2):97–104
Lanthanum and zinc sensitivity of GABAA–activated currents in adult medial septum/diagonal band neurons from ethanol dependent rats. Frye GD, et al. **Brain Res** 1996 May 13;720(1–2):101–10
Pharmacological characterization of apoptotic cell death in a model of photothrombotic brain injury in rats. Kharlamov A, et al. **Brain Res** 1996 Sep 23;734(1–2):1–9
Immunoreactivity of presenilin–1 in human, rat and mouse brain. Kim KS, et al. **Brain Res** 1997 May 16;757(1):159–63
Distribution of apolipoprotein E in senile plaques in brains with Alzheimer's disease: investigation with the confocal laser scan microscope. Nishiyama E, et al. **Brain Res** 1997 Mar 7;750(1–2):20–4
Plaque biogenesis in brain aging and Alzheimer's disease. I. Progressive changes in phosphorylation states of paired helical filaments and neurofilaments. Su JH, et al. **Brain Res** 1996 Nov 11;739(1–2):79–87
Riluzole reduces brain lesions and improves neurological function in rats after a traumatic brain injury. Wahl F, et al. **Brain Res** 1997 May 9;756(1–2):247–55
MK–801 neurotoxicity in male mice: histologic effects and chronic impairment in spatial learning. Wozniak DF, et al. **Brain Res** 1996 Jan 29;707(2):165–79
Overexpression of interleukin–1 receptor antagonist in the mouse brain reduces ischemic brain injury. Yang GY, et al. **Brain Res** 1997 Mar 21;751(2):181–8
Lithium–pilocarpine status epilepticus in the immature rabbit. Thompson K, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):1–4
Influence of age on the cerebral lesions in an immature rat model of cerebral hypoxia–ischemia: a light microscopic study. Towfighi J, et al. **Brain Res Dev Brain Res** 1997 Jun 18;100(2):149–60
Blood manganese correlates with brain magnetic resonance imaging changes in patients with liver disease. Hauser RA, et al. **Can J Neurol Sci** 1996 May;23(2):95–8
Canada's largest magnet finds home in new MRI program in London [published erratum appears in Can Med Assoc J 1997 Mar 1;156(5):637] OReilly M. **Can Med Assoc J** 1997 Jan 1;156(1):69–70
Diagnostic discrepancies and their clinical impact in a neuropathology referral practice [see comments] Bruner JM, et al. **Cancer** 1997 Feb 15;79(4):796–803. Comment in: Cancer 1996 Feb 15;79(4):665–7.
Formation of neuronal intranuclear inclusions underlies the neurological dysfunction in mice transgenic for the HD mutation. Davies SW, et al. **Cell** 1997 Aug 8;90(3):537–48
Co–transplantation of plasmid–transfected myoblasts and myotubes into rat brains enables high levels of gene expression long–term [letter] Wolff JA. **Cell Transplant** 1997 Jul–Aug;6(4):445
Brain MRI in children with migraine: a controlled morphometric study. Hämäläinen ML, et al. **Cephalalgia** 1996 Dec;16(8):541–4
Neuroimaging for differentiating vascular from Alzheimer's dementias. Meyer JS, et al. **Cerebrovasc Brain Metab Rev** 1996 Spring;8(1):1–10 (51 ref.)
Hemimegalencephaly. Histological, immunohistochemical, ultrastructural and cytofluorimetric study of six patients. Bosman C, et al. **Childs Nerv Syst** 1996 Dec;12(12):765–75
Morphometric evaluation of the hydrocephalic brain: relationships with cognitive development. Fletcher JM, et al. **Childs Nerv Syst** 1996 Apr;12(4):192–9
Multiple intracranial mixed germ cell tumors. Kumabe T, et al. **Childs Nerv Syst** 1997 Mar;13(3):178–81
MR evaluation of the brain in central diabetes insipidus. Ma L, et al. **Chin Med J (Engl)** 1996 Sep;109(9):724–9
Changes in endocrine circadian rhythms as markers of physiological and pathological brain aging. Magri F, et al. **Chronobiol Int** 1997 Jul;14(4):385–96
Familial primary hypomagnesemia complicated with brain atrophy and cardiomyopathy. Shu SG, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jul–Aug;38(4):293–6
Magnetic resonance imaging in symptomatic/cryptogenic partial epilepsies of infants and children. Wang PJ, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Mar–Apr;38(2):127–36
Acceleration of hypertensive cerebral injury by the inhibition of xanthine–xanthine oxidase system in stroke–prone spontaneously hypertensive rats. Maenishi O, et al. **Clin Exp Hypertens** 1997 May;19(4):461–77
Anti–ageing effect of aged garlic extract in the inbred brain atrophy mouse model. Moriguchi T, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr;24(3–4):235–42
Pathogenesis of lacuna–like cyst formation and diffuse degeneration of the white matter in the brain of stroke–prone spontaneously hypertensive rats. Hazama F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S260–1
Increased immunoreactivities for the basic fibroblast growth factor and its receptor in astrocytes at the site of cerebral lesions and oedematous change in SHR. Kataoka H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S262–4
Apolipoprotein E e4 allele in the normal elderly: neuropsychologic and brain MRI correlates. Schmidt H, et al. **Clin Genet** 1996 Nov;50(5):293–9
Brain MR imaging findings in two patients with Alpers' syndrome. Smith JK, et al. **Clin Imaging** 1996 Oct–Dec; 20(4):235–7
The neuroimaging features of the cardiolipin antibody syndrome. Weingarten K, et al. **Clin Imaging** 1997 Jan–Feb; 21(1):6–12
Functional brain imaging and neuropsychological testing in Lyme disease. Fallon BA, et al. **Clin Infect Dis** 1997 Jul; 25 Suppl 1:S57–63 (46 ref.)
Neocortical temporal lobe sclerosis masquerading as Alzheimer dementia: does herpes virus encephalopathy protect against Alzheimer's disease? Ball MJ, et al. **Clin Neuropathol** 1997 Jan–Feb;16(1):1–12
Tissue kallikrein–like immunoreactive material decorates neuritic plaques of Alzheimer patients. Bernstein HG. **Clin Neuropathol** 1997 Mar–Apr;16(2):69–71
Tuberculoma mimicking meningioma of the falx cerebri. PCR diagnosis of mycobacterial DNA from formalin–fixed tissue. Isenmann S, et al. **Clin Neuropathol** 1996 May–Jun; 15(3):155–8
Pathologic correlations between ocular and cerebral lesions in 36 AIDS patients. Léger F, et al. **Clin Neuropathol** 1997 Jan–Feb;16(1):45–8
Comparative brain pathology of HIV–seronegative and HIV–infected drug addicts. Makrigeorgi–Butera M, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):324–9
Postmortem delay and temperature conditions affect the in situ end–labeling (ISEL) assay in brain tissue of mice. Schallock K, et al. **Clin Neuropathol** 1997 May–Jun; 16(3):133–6
Regional heterogeneity of mtDNA heteroplasmy in parkinsonian brain. Schnopp NM, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):348–52
Brain scanning—successes, limitations, and future developments. Heck LL, et al. **Clin Neurosurg** 1971; 18:371–86
Gliotic, nodular lesions in phenylketonuria: MR imaging findings. Sener RN. **Comput Med Imaging Graph** 1996 Sep–Oct;20(5):399–401
Topographical disorientation: selective impairment of locomotor space? Incisa della Rocchetta A, et al. **Cortex** 1996 Dec;32(4):727–35
Huntington's disease: translating a CAG repeat into a pathogenic mechanism. MacDonald ME, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):638–43 (45 ref.)
Neurobiological findings in first admission patients with schizophrenia or schizophreniform disorder. Rubin P. **Dan Med Bull** 1997 Apr;44(2):140–54
Brain imaging and psychogeriatric services in geriatric psychiatry. Proceedings of the 23rd Symposium of the European Association of Geriatric Psychiatry. Lund, Sweden, October 6–7, 1995. **Dement Geriatr Cogn Disord** 1997 Mar–Apr;8(2):61–145
Neuropathological brain mapping. Brun A, et al. **Dement Geriatr Cogn Disord** 1997 Mar–Apr;8(2):123–7 (23 ref.)
Progressive formation of neuritic plaques and neurofibrillary tangles is exponentially related to age and neuronal size. A morphometric study of three geographically distinct series of aging people. Dani SU, et al. **Dement Geriatr Cogn Disord** 1997 Jul–Aug;8(4):217–27
History of brain imaging in psychiatry. Ingvar DH. **Dement Geriatr Cogn Disord** 1997 Mar–Apr;8(2):66–72
Staging of Alzheimer–type pathology: an interrater–intrarater study. Nagy Z, et al. **Dement Geriatr Cogn Disord** 1997 Jul–Aug;8(4):248–51
Diagnosing Alzheimer's disease in community–dwelling elderly: a comparison of EEG and MRI. Strijers RL, et al. **Dement Geriatr Cogn Disord** 1997 May–Jun;8(3):198–202
The use of multivariate methods in the identification of subtypes of Alzheimer's disease: a comparison of principal components and cluster analysis. Armstrong RA, et al. **Dementia** 1996 Jul–Aug;7(4):215–20
The spatial pattern of discrete beta–amyloid deposits in Alzheimer's disease reflects synaptic disconnection. Armstrong RA. **Dementia** 1996 Mar–Apr;7(2):86–90
Regional brain atrophy in idiopathic parkinson's disease and diffuse Lewy body disease. Double KL, et al. **Dementia** 1996 Nov–Dec;7(6):304–13
Clustering of pathological features in Alzheimer's disease: clinical and neuroanatomical aspects. Nagy Z, et al. **Dementia** 1996 May–Jun;7(3):121–7
Early cerebral proton MRS and neurodevelopmental outcome in infants with cystic leukomalacia. Groenendaal F, et al. **Dev Med Child Neurol** 1997 Jun;39(6):373–9
The effect of intracranial pressure on myelination and the relationship with neurodevelopment in infantile hydrocephalus. Hanlo PW, et al. **Dev Med Child Neurol** 1997 May;39(5):286–91
Brain abnormalities demonstrated by magnetic resonance imaging in adult IDDM patients with and without a history of recurrent severe hypoglycemia. Perros P, et al. **Diabetes Care** 1997 Jun;20(6):1013–8
Asymptomatic multiple lacunae in diabetics and non–diabetics detected by brain magnetic resonance imaging. Inoue T, et al. **Diabetes Res Clin Pract** 1996 Mar; 31(1–3):81–6
Murine thioredoxin peroxidase delays neuronal apoptosis and is expressed in areas of the brain most susceptible to

hypoxic and ischemic injury. Ichimiya S, et al. **DNA Cell Biol** 1997 Mar;16(3):311–21

Failure to induce formation of proteinase K resistant fibrils in pigeons through experimental infection with paramyxovirus type 1. Kostka VM, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 May;104(5):174–5

Pathomechanism of cerebral hypoplasia in experimental toxoplasmosis in murine fetuses. Minamitani M, et al. **Early Hum Dev** 1996 Jan 5;44(1):37–50

Dipole localization in patients with epilepsy using the realistically shaped head model. Roth BJ, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):159–66

Recurrent seizures in the developing brain are not harmful. Camfield PR. **Epilepsia** 1997 Jun;38(6):735–7

Recurrent seizures in the developing brain are harmful. Wasterlain CG. **Epilepsia** 1997 Jun;38(6):728–34 (30 ref.)

Characterization of neuronal migration disorders in neocortical structures: I. Expression of epileptiform activity in an animal model. Luhmann HJ, et al. **Epilepsy Res** 1996 Dec;26(1):67–74

Spontaneous seizures preferentially injure interneurons in the pilocarpine model of chronic spontaneous seizures. Mello LE, et al. **Epilepsy Res** 1996 Dec;26(1):123–9

The relationship between seizures and damage in the maturing brain. Sperber EF. **Epilepsy Res Suppl** 1996; 12:365–76

Effects of acute total and prolonged partial asphyxia on the central nervous system of the foetal neonatal and juvenile rhesus monkey: a review. Brann AW. **Equine Vet J Suppl** 1988 Sep;(5):25–7 (17 ref.)

Ophthalmoplegia plus: clinical relevance of magnetic resonance tomogaphy findings. Lindner A, et al. **Eur J Med Res** 1997 Jul 28;2(7):311–4

Naturally occurring (programmed) and radiation-induced apoptosis are associated with selective c-Jun expression in the developing rat brain. Ferrer I, et al. **Eur J Neurosci** 1996 Jun;8(6):1286–98

Magnetic resonance imaging of the brain in adolescents with phenylketonuria and in one case of 6-pyruvoyl tetrahydropteridine synthase deficiency. Pietz J, et al. **Eur J Pediatr** 1996 Jul;155 Suppl 1:S69–73

Case of the month. Wingenfeld P, et al. **Eur J Pediatr** 1996 Mar;155(3):249–50

Brain magnetic resonance imaging in non-alcoholic cirrhosis. Awada A, et al. **Eur J Radiol** 1995 Dec 15;21(2):84–8

CT and MRI findings after stereotactic resection of brain lesions. Herman M, et al. **Eur J Radiol** 1996 Nov; 23(3):228–34

Reversible intracranial changes in eclampsia demonstrated by MRI and MRA. Koyama M, et al. **Eur J Radiol** 1997 Jul;25(1):44–6

Central nervous system involvement in Guillain-Barré-like syndrome: clinical and magnetic resonance imaging evidence. Borruat FX, et al. **Eur Neurol** 1997;38(2):129–31

A laser microprobe mass analysis of brain aluminum and iron in dementia pugilistica: comparison with Alzheimer's disease. Bouras C, et al. **Eur Neurol** 1997;38(1):53–8

Morphology and neurochemical characteristics of the vulnerable neurons in brain aging and Alzheimer's disease. Hof PR. **Eur Neurol** 1997;37(2):71–81 (90 ref.)

Signal hyperintensities on brain magnetic resonance imaging in elderly depressed patients. Iidaka T, et al. **Eur Neurol** 1996;36(5):293–9

Atypical white matter changes in Alzheimer's disease. Leker RR, et al. **Eur Neurol** 1997;37(4):254–5

Inter- and intraobserver reproducibility of cerebral atrophy assessment on MRI scans with hemispheric infarcts. Pasquier F, et al. **Eur Neurol** 1996;36(5):268–72

A Wilson's disease patient with prominent cerebral white matter lesions: five-year follow-up by MRI. Yoshii F, et al. **Eur Neurol** 1996;36(6):392–3

Brain and spinal cord MR imaging in a case of acute disseminated encephalomyelitis. Feydy A, et al. **Eur Radiol** 1997;7(3):415–7

Supratentorial arachnoid cyst and associated subdural hematoma: neuroradiologic studies. Ochi M, et al. **Eur Radiol** 1996;6(5):640–4

Brain MRI changes in chronic liver disease. Skehan S, et al. **Eur Radiol** 1997;7(6):905–9

Delayed neuronal death following perinatal asphyxia in rat. Dell'Anna E, et al. **Exp Brain Res** 1997 Jun;115(1):105–15

3-Nitropropionic acid neurotoxicity: visualization by silver staining and implications for use as an animal model of Huntington's disease. Miller PJ, et al. **Exp Neurol** 1997 Jul; 146(1):212–29

Magnetic resonance imaging of experimental microinfarctions in the rabbit brain. Roos MW, et al. **Exp Neurol** 1997 Jul;146(1):295–7

Trypanosoma brucei brucei: a long-term model of human African trypanosomiasis in mice, meningo-encephalitis, astrocytosis, and neurological disorders. Keita M, et al. **Exp Parasitol** 1997 Feb;85(2):183–92

Increased brain damage after stroke or excitotoxic seizures in melatonin-deficient rats. Manev H, et al. **FASEB J** 1996 Nov;10(13):1546–51

Fetal rat brain injury: effect of transient maternal hypoxemia. Hallak M, et al. **Fetal Diagn Ther** 1997 Mar-Apr; 12(2):68–71

Children brain weight in various pathological conditions. Kraszpulska B. **Folia Morphol (Warsz)** 1996;55(4):359–61

Cerebral gangliogliomas. Morphological and immunohistochemical study. Kroh H, et al. **Folia Neuropathol** 1996;34(2):107–13

Utilization of available films and records of primates with central nervous system lesions. Vilensky JA, et al. **Folia Primatol (Basel)** 1996;66(1–4):204–8

Lack of efficacy of 5-HT2A receptor antagonists to reduce brain damage after 3 minutes of transient global cerebral ischaemia in gerbils. Piera MJ, et al. **Fundam Clin Pharmacol** 1995;9(6):562–8

Whipple's disease: staging and monitoring by cytology and polymerase chain reaction analysis of cerebrospinal fluid. von Herbay A, et al. **Gastroenterology** 1997 Aug; 113(2):434–41

Intermediate filament change in astrocytes following mild cortical contusion. Baldwin SA, et al. **Glia** 1996 Mar; 16(3):266–75

Induction of astroglial gene expression by experimental seizures in the rat: spatio-temporal patterns of the early stages. Belluardo N, et al. **Glia** 1996 Feb;16(2):174–86

Frequency of magnetic resonance imaging abnormalities in patients with migraine. Cooney BS, et al. **Headache** 1996 Nov-Dec;36(10):616–21

Diversity in schizophrenia: toward a richer biopsychosocial understanding for social work practice. Farmer RL, et al. **Health Soc Work** 1997 May;22(2):109–16

Chronic alcohol consumption does not cause hippocampal neuron loss in humans. Harding AJ, et al. **Hippocampus** 1997;7(1):78–87

The neuropathological changes associated with normal brain aging. Hof PR, et al. **Histol Histopathol** 1996 Oct; 11(4):1075–88 (70 ref.)

Neuroectodermal grafting: a new tool for the study of neurodegenerative diseases. Isenmann S, et al. **Histol Histopathol** 1996 Oct;11(4):1063–73 (92 ref.)

Assessment of the biochemical effects of percutaneous exposure of sulphur mustard in an in vitro human skin system. Lindsay CD, et al. **Hum Exp Toxicol** 1996 Mar; 15(3):237–44

Influence of age on the passage of paraquat through the blood-brain barrier in rats: a distribution and pathological examination. Widdowson PS, et al. **Hum Exp Toxicol** 1996 Mar;15(3):231–6

Histopathological & immunohistochemical evaluation of ageing changes in normal human brain. Yasha TC, et al. **Indian J Med Res** 1997 Mar;105:141–50

Magnetic resonance imaging and histopathological study of brain lesions in rabbits given intravenous verotoxin 2. Fujii J, et al. **Infect Immun** 1996 Dec;64(12):5053–60

The psychobiology of the acute schizophrenic episode. Müller-Spahn F, et al. **Int Clin Psychopharmacol** 1996 May; 11 Suppl 2:19–28 (50 ref.)

Hyperintense subcortical brain alterations in anorexia nervosa. Sieg KG, et al. **Int J Eat Disord** 1997 May; 21(4):391–4

Observations on the brains of demented old people. B.E. Tomlinson, G. Blessed and M. Roth, Journal of the Neurological Sciences (1970) 11, 205–242 and Observations on the brains of non-demented old people. B.E. Tomlinson, G. Blessed and M. Roth, Journal of Neurological Sciences (1968) 7, 331–356. Burns A, et al. **Int J Geriatr Psychiatry** 1997 Aug;12(8):785–90

Clinical, magnetic resonance imaging and endocrinological differences between delusional and non-delusional depression in the elderly. O'Brien JT, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):211–8

Sequential changes in cerebral blood flow, early neuropathological consequences and blood-brain barrier disruption following radiofrequency-induced localized hyperthermia in the rat. Ohmoto Y, et al. **Int J Hyperthermia** 1996 May-Jun;12(3):321–34

Lack of a correlation between demyelinating plaques on MRI scan and clinical recovery in multiple sclerosis by treatment with electromagnetic fields. Sandyk R. **Int J Neurosci** 1997 Jan;89(1–2):29–38

Clinical value of proton magnetic resonance spectroscopy for differentiating recurrent or residual brain tumor from delayed cerebral necrosis. Taylor JS, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1251–61

Neuropathology of psychotic symptoms in Alzheimer's disease. Bondareff W. **Int Psychogeriatr** 1996;8 Suppl 3:233–7; discussion 269–72 (8 ref.)

Membrane components separate early-onset Alzheimer's disease from senile dementia of the Alzheimer type. Gottfries CG, et al. **Int Psychogeriatr** 1996 Fall;8(3):365–72

Neuroimaging and the origin of psychiatric symptoms in dementia. Sultzer DL. **Int Psychogeriatr** 1996;8 Suppl 3:239–43; discussion 269–72 (11 ref.)

Acute Wernicke's encephalopathy: comparison of magnetic resonance images and autopsy findings [see comments] Suzuki S, et al. **Intern Med** 1996 Oct;35(10):831–4. Comment in: Intern Med 1996 Oct;35(10):754–5.

Quantitative assessment of cerebral atrophy during and after treatment in children with acute lymphoblastic leukemia. Prassopoulos P, et al. **Invest Radiol** 1996 Dec;31(12):749–54

Isolated optic neuritis and its prognosis for multiple sclerosis: a clinical and paraclinical study with evoked potentials. CSF examination and brain MRI. Ghezzi A, et al. **Ital J Neurol Sci** 1996 Oct;17(5):325–32

Four-year follow-up of a case of acute multiple sclerosis of the Marburg type. Giubilei F, et al. **Ital J Neurol Sci** 1997 Jun;18(3):163–6

Proton spectroscopy in asymptomatic HIV-infected adults: initial results in a prospective cohort study. Jarvik JG, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):247–53

1H magnetic resonance spectroscopy reveals neuronal injury in a simian immunodeficiency virus macaque model. Tracey I, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):21–7

5-HT1A receptor binding sites in post-mortem brain samples from depressed suicides and controls. Lowther S, et al. **J Affect Disord** 1997 Feb;42(2–3):199–207

Quantitative magnetic resonance imaging in geriatric depression and primary degenerative dementia. Pantel J, et al. **J Affect Disord** 1997 Jan;42(1):69–83

Conventional and maximum length sequences middle latency response in patients with central nervous system lesions. Musiek FE, et al. **J Am Acad Audiol** 1997 Jun;8(3):173–80

Brain serotonin depletion attenuates heatstroke-induced cerebral ischemia and cell death in rats. Kao TY, et al. **J Appl Physiol** 1996 Feb;80(2):680–4

Magnetic resonance imaging findings in a patient with sporadic motor neuron disease. Bhat AR, et al. **J Assoc Physicians India** 1996 Jun;44(6):422–3

The value of gadolinium-chelates enhancement in neuroradiology. Cosnard G, et al. **J Belge Radiol** 1997 Feb; 80(1):30–2

MR-based correction of brain PET measurements for heterogeneous gray matter radioactivity distribution. Meltzer CC, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):650–8

GABAA receptor activation attenuates excitotoxicity but exacerbates oxygen-glucose deprivation-induced neuronal injury in vitro. Muir JK, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1211–8

Macrocephaly, subarachnoid fluid collection, and glutaric aciduria type I. Drigo P, et al. **J Child Neurol** 1996 Sep; 11(5):414–7

Early magnetic resonance imaging findings in Menkes' disease. Leventer RJ, et al. **J Child Neurol** 1997 Apr; 12(3):222–4

Magnetic resonance imaging in the congenital adrenal hyperplasia population: increased frequency of white-matter abnormalities and temporal lobe atrophy. Nass R, et al. **J Child Neurol** 1997 Apr;12(3):181–6

Clinical role of positron emission tomography in children with tuberous sclerosis complex. Rintahaka PJ, et al. **J Child Neurol** 1997 Jan;12(1):42–52

The neuroradiology of Kallmann's syndrome: a genotypic and phenotypic analysis [published erratum appears in J Clin Endocrinol Metab 1996 Oct;81(10):3614] Quinton R, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3010–7 (58 ref.)

MRI and nonverbal cognitive deficits in children with neurofibromatosis 1. Bawden H, et al. **J Clin Exp Neuropsychol** 1996 Dec;18(6):784–92

Reactive oxygen intermediates contribute to necrotic and apoptotic neuronal injury in an infant rat model of bacterial meningitis due to group B streptococci. Leib SL, et al. **J Clin Invest** 1996 Dec 1;98(11):2632–9

Brain tissue banks in psychiatric and neurological research [see comments] Cairns NJ, et al. **J Clin Pathol** 1996 Nov; 49(11):870–3 (29 ref.). Comment in: J Clin Pathol 1997 Apr;50(4):355.

The neuropathology of schizophrenia. Bachus SE, et al. **J Clin Psychiatry** 1996;57 Suppl 11:72–83 (240 ref.)

Refractory depression, cardiovascular risk factors, and leukoariosis [letter; comment] D'Mello DA, et al. **J Clin Psychiatry** 1997 Jun;58(6):274. Comment on: J Clin Psychiatry 1995 Apr;56(4):128–36.

Mental illness may be damaging to your brain. Stahl SM. **J Clin Psychiatry** 1997 Jul;58(7):289–90

The differential diagnosis of multiple sclerosis and bipolar disorder [letter; comment] Young CR, et al. **J Clin Psychiatry** 1997 Mar;58(3):123. Comment on: J Clin Psychiatry 1995 Jul;56(7):297–306; discussion 307–8.

Excitotoxic neuronal death in the immature brain is an apoptosis-necrosis morphological continuum. Portera-Cailliau C, et al. **J Comp Neurol** 1997 Feb 3; 378(1):70–87

Mycotoxin T-2 and aflatoxin B1 as immunosuppressors in mice chronically infected with Toxoplasma gondii. Venturini MC, et al. **J Comp Pathol** 1996 Oct;115(3):229–37

Neuronal ceroid-lipofuscinosis in a domestic cat: clinical, morphological and immunohistochemical findings. Weissenböck H, et al. **J Comp Pathol** 1997 Jul;117(1):17–24

Accurate registration of serial 3D MR brain images and its application to visualizing change in neurodegenerative disorders. Freeborough PA, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):1012–22

Application of magnetization transfer imaging for intracranial lesions of tuberous sclerosis. Jeong MG, et al. **J Comput Assist Tomogr** 1997 Jan-Feb;21(1):8–14

CT and MR findings of neuroacanthocytosis. Okamoto K, et al. **J Comput Assist Tomogr** 1997 Mar-Apr;21(2):221–2

A new computer-assisted method for the quantification of enhancing lesions in multiple sclerosis. Samarasekera S, et al. **J Comput Assist Tomogr** 1997 Jan-Feb;21(1):145–51

Laser-induced thermal lesions in the human brain: short- and long-term appearance on MRI. Schwabe B, et al. **J Comput Assist Tomogr** 1997 Sep-Oct;21(5):818–25

Comparison and evaluation of retrospective intermodality brain image registration techniques. West J, et al. **J Comput Assist Tomogr** 1997 Jul-Aug;21(4):554–66

Involvement of the CD95 (APO-1/Fas) receptor/ligand system in multiple sclerosis brain. Dowling P, et al. **J Exp Med** 1996 Oct 1;184(4):1513–8

Vocal cord paralysis as an initial sign of multiple system atrophy in the central nervous system. Wu YR, et al. **J Formos Med Assoc** 1996 Oct;95(10):804–6

Rapidly progressive dementia: a clinicopathologic correlation. Adair JC, et al. **J Geriatr Psychiatry Neurol** 1996 Oct;9(4):209–13

Patient characteristics, MRI examination, and dopaminergic drug response in clinical possible Parkinson's disease. Larsen JP, et al. **J Geriatr Psychiatry Neurol** 1996 Oct; 9(4):157–63

A common morphological response of astrocytes to various injuries: "dark" astrocytes. A light and electron microscopic analysis. Tóth Z, et al. **J Hirnforsch** 1997;38(2):173–86

Ultrasonography in acute interstitial laser irradiation of the pig brain: preliminary results. Menovsky T, et al. **J Image Guid Surg** 1995;1(4):237–41

Correlation of functional magnetic source imaging with intraoperative cortical stimulation in neurosurgical patients. Roberts TP, et al. **J Image Guid Surg** 1995;1(6):339–47

Automatic identification of gray matter structures from MRI to improve the segmentation of white matter lesions. Warfield S, et al. **J Image Guid Surg** 1995;1(6):326–38

Astrocyte-specific but not neuron-specific transmembrane TNF triggers inflammation and degeneration in the central nervous system of transgenic mice. Akassoglou K, et al. **J Immunol** 1997 Jan 1;158(1):438–45

Cure of established, intracerebral rat gliomas induced by therapeutic immunizations with tumor cells and purified APC or adjuvant IFN-gamma treatment. Siesjö P, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):334–45

A mouse model of Borrelia meningitis after intradermal injection. Garcia-Monco JC, et al. **J Infect Dis** 1997 May; 175(5):1243–5

Dexamethasone therapy worsens the neuropathology of human immunodeficiency virus type 1 encephalitis in SCID mice. Limoges J, et al. **J Infect Dis** 1997 Jun;175(6):1368–81

Neuropathology and pathogenesis of mitochondrial diseases. Brown GK, et al. **J Inherit Metab Dis** 1996;19(4):553–72 (76 ref.)

L-2-Hydroxyglutaric aciduria: neuropathological correlations and first report of severe neurodegenerative disease and neonatal death. Chen E, et al. **J Inherit Metab Dis** 1996;19(3):335–43

Brain atrophy in HIV infection is more strongly associated with CDC clinical stage than with cognitive impairment. Di Sclafani V, et al. **J Int Neuropsychol Soc** 1997 May; 3(3):276–87

In-vivo study on the harmful effect of the extremely low frequency unipolar pulsating magnetic field in mice. Kang GH, et al. **J Korean Med Sci** 1997 Apr;12(2):128–34

Lack of major hypoxia and significant brain damage in rats despite dramatic hyponatremic encephalopathy. Soupart A, et al. **J Lab Clin Med** 1997 Aug;130(2):226–31

A comparison between different imaging strategies for diffusion measurements with the centric phase-encoded turboFLASH sequence. Coremans J, et al. **J Magn Reson** 1997 Feb;124(2):323–42

Local histogram correction of MRI spatially dependent image pixel intensity nonuniformity. DeCarli C, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):519–28

A reproducible repositioning method for serial magnetic resonance imaging studies of the brain in treatment trials for multiple sclerosis. Gallagher HL, et al. **J Magn Reson Imaging** 1997 Mar-Apr;7(2):439–41

Macroscopic and microscopic assessments of disease burden by MRI in multiple sclerosis: relationship to clinical parameters. Gasperini C, et al. **J Magn Reson Imaging** 1996 Jul-Aug;6(4):580–4

Lesion volume measurement in multiple sclerosis: how important is accurate repositioning? Gawne-Cain ML, et al. **J Magn Reson Imaging** 1996 Sep-Oct;6(5):705–13

Quantification of white matter and gray matter volumes from T1 parametric images using fuzzy classifiers. Hemdon RC, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):425–35

Magnetic resonance imaging of the brain with gadopentetate dimeglumine-DTPA: comparison of T1-weighted spin-echo and 3D gradient-echo sequences. Li D, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):415–24

Dual dynamic contrast-enhanced MR imaging. Miyati T, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):230–5

Correspondence of closest gradient voxels--a robust registration algorithm. Ostuni JL, et al. **J Magn Reson Imaging** 1997 Mar-Apr;7(2):410–5

Progression of a focal ischemic lesion in rat brain during treatment with a novel glycine/NMDA antagonist: an in vivo three-dimensional diffusion-weighted MR microscopy study. Qiu H, et al. **J Magn Reson Imaging** 1997 Jul-Aug;7(4):739–44

T1-weighted MR imaging of the brain using a fast inversion recovery pulse sequence. Rydberg JN, et al. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):356–62

Immunohistochemical characteristics of the constituents of senile plaques and amyloid angiopathy in aged cynomolgus monkeys. Nakamura S, et al. **J Med Primatol** 1996 Aug; 25(4):294–300

Magnetic resonance spectroscopy (MRS) in the evaluation of pediatric brain tumors, Part I: Introduction to MRS. Byrd SE, et al. **J Natl Med Assoc** 1996 Oct;88(10):649–54 (15 ref.)

Consensus on minimal criteria of clinical and neuropathological diagnosis of schizophrenia and affective disorders for post mortem research. Report from the European Dementia and Schizophrenia Network (BIOMED I). Riederer P, et al. **J Neural Transm Gen Sect** 1995;102(3):255–64 (16 ref.)

MR-imaging of non-Alzheimer's dementia. Aichner F, et al. **J Neural Transm Suppl** 1996;47:143–53 (16 ref.)

Mechanisms of cell death in Alzheimer's disease. Bancher C, et al. **J Neural Transm Suppl** 1997;50:141–52

New aspects of pathology in Parkinson's disease with concomitant incipient Alzheimer's disease. Braak H, et al. **J Neural Transm Suppl** 1996;48:1–6 (24 ref.)

Structural basis of dementia in neurodegenerative disorders. Jellinger KA. **J Neural Transm Suppl** 1996;47:1–29 (175 ref.)

The relationship of Alzheimer-type pathology to dementia in Parkinson's disease. Jendroska K. **J Neural Transm Suppl** 1997;49:23–31 (66 ref.)

Cell death in prion disease. Kretzschmar HA, et al. **J Neural Transm Suppl** 1997;50:191–210 (72 ref.)

Magnetic resonance: a multimodal approach to the brain? Laubenberger J. **J Neural Transm Suppl** 1997;50:3–8 (29 ref.)

Models to study the role of neurotrophic factors in neurodegeneration. Lindholm D. **J Neural Transm Suppl** 1997;49:33–42 (45 ref.)

MRI as a method to reveal in-vivo pathology in MS. Paty DW. **J Neural Transm Suppl** 1997;49:211–7 (37 ref.)

PK ('peripheral benzodiazepine')--binding sites in the CNS indicate early and discrete brain lesions: microautoradiographic detection of [3H]PK11195 binding to activated microglia. Banati RB, et al. **J Neurocytol** 1997 Feb;26(2):77–82

Magnetic resonance appearance of cerebral lymphomatoid granulomatosis. Bhagavatula K, et al. **J Neuroimaging** 1997 Apr;7(2):120–1

Fluctuating MRI findings in a patient with central nervous system idiopathic hypereosinophilic syndrome: a case report. Doherty EA. **J Neuroimaging** 1997 Jul;7(3):192–5

A 66-year-old woman with a rapidly progressing dementia and basal ganglia involvement [clinical conference] Gold M, et al. **J Neuroimaging** 1997 Jul;7(3):171–5

Clinical application of functional magnetic resonance imaging (fMRI) to surgery in the brain [letter] Lundquist P, et al. **J Neuroimaging** 1997 Apr;7(2):131–3

Displaying electroencephalographic dipole sources on magnetic resonance images. Rodin E, et al. **J Neuroimaging** 1997 Apr;7(2):106–10

Sensitivity and reproducibility of fast-FLAIR, FSE, and TGSE sequences for the MRI assessment of brain lesion load in multiple sclerosis: a preliminary study. Rovaris M, et al. **J Neuroimaging** 1997 Apr;7(2):98–102

Unusual lateralization of adrenoleukodystrophy lesions on neuroimaging. Terakawa H, et al. **J Neuroimaging** 1997 Apr;7(2):121–3

Neuroimaging findings in Rasmussen's syndrome. Yacubian EM, et al. **J Neuroimaging** 1997 Jan;7(1):16–22

Differential and time-dependent expression of monocyte chemoattractant protein-1 mRNA by astrocytes and macrophages in rat brain: effects of ischemia and peripheral lipopolysaccharide administration. Gourmala NG, et al. **J Neuroimmunol** 1997 Apr;74(1-2):35–44

The mast cells of the multiple sclerosis brain. Ibrahim MZ, et al. **J Neuroimmunol** 1996 Nov;70(2):131–8

Characterization of the cellular and cytokine response in the central nervous system following Semliki Forest virus infection. Morris MM, et al. **J Neuroimmunol** 1997 Apr; 74(1-2):185–97

Oculomotor palsy and contralateral tremor (Benedikt's syndrome) following a stereotactic procedure [letter] Borrás JM, et al. **J Neurol** 1997 Apr;244(4):272–4

Clinical and genetic analysis of three German kindreds with autosomal dominant cerebellar ataxia type I linked to the SCA2 locus. Bürk K, et al. **J Neurol** 1997 Apr; 244(4):256–61

A comparison of brain biopsy and CSF-PCR in the diagnosis of CNS lesions in AIDS patients. d'Arminio Monforte A, et al. **J Neurol** 1997 Jan;244(1):35–9

Differences in factors associated with silent and symptomatic MRI T2 hyperintensity lesions. Fukui T, et al. **J Neurol** 1997 May;244(5):293–8

Quantitative magnetic resonance analysis in vascular dementia. Giubilei F, et al. **J Neurol** 1997 Apr; 244(4):246–51

Patterns of disease activity in multiple sclerosis patients: a study with quantitative gadolinium-enhanced brain MRI and cytokine measurement in different clinical subgroups. Rovaris M, et al. **J Neurol** 1996 Jul;243(7):536–42

Imaging of the spinal cord and brain in multiple sclerosis: a comparative study between fast FLAIR and fast spin echo. Stevenson VL, et al. **J Neurol** 1997 Feb;244(2):119–24

Neurological picture. Acute disseminated encephalomyelitis presenting as multiple cystic lesions. De Recondo A, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):15

Correlation of MRI and neuropathology in AIDS. Everall IP, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan; 62(1):92–5

Brain MRI, lumbar CSF monoamine concentrations, and clinical descriptors of patients with spinocerebellar ataxia mutations. Higgins JJ, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):591–5

Isolated angiitis of the CNS presenting as subarachnoid haemorrhage. Kumar R, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):649–51

Persistence of MRI changes in central pontine myelinolysis. Maddison P, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):579

Comparison of magnetic resonance imaging with neuropathological findings in the diagnosis of HIV and CMV associated CNS disease in AIDS. Miller RF, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):346–51

Neuropsychological, psychiatric, and cerebral perfusion correlates of leukoaraiosis in Alzheimer's disease. Starkstein SE, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul; 63(1):66–73

Atypical dopa responsive parkinsonism in a patient with megalencephaly, midbrain Lewy body disease, and some pathological features of Hallervorden-Spatz disease. Tuite PJ, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov; 61(5):523–7

Cell death and birth in multiple sclerosis brain. Dowling P, et al. **J Neurol Sci** 1997 Jul;149(1):1–11

Close relationship between spongiform change and ubiquitin-positive granular structures in diffuse Lewy body disease. Iseki E, et al. **J Neurol Sci** 1997 Feb 27;146(1):53–7

Leber's hereditary optic neuropathy with the 11 778 mtDNA mutation and white matter disease resembling multiple sclerosis: clinical, MRI and MRS findings. Jansen PH, et al. **J Neurol Sci** 1996 Feb;135(2):176–80

Magnetic resonance imaging and spectroscopy of progressive cerebral involvement in Kearns Sayre Syndrome. Kapeller P, et al. **J Neurol Sci** 1996 Feb;135(2):126–30

Systemic lupus erythematosus with multiple perivascular spongy changes in the cerebral deep structures, midbrain and cerebellar white matter: a case report. Matsumoto R, et al. **J Neurol Sci** 1997 Feb 12;145(2):147–53

Vascular pathology in three cases of progressive cognitive deterioration. Pantoni L, et al. **J Neurol Sci** 1996 Feb; 135(2):131–9

Panencephalitic Creutzfeldt-Jakob disease. Unusual presentation of magnetic resonance imaging and proton magnetic resonance spectroscopy [see comments] Shyu WC, et al. **J Neurol Sci** 1996 Jun;138(1-2):157–60. Comment in: J Neurol Sci 1997 Aug;149(2):197; discussion 199–200.

Longitudinal MR imaging and proton MR spectroscopy in herpes simplex encephalitis. Takanashi J, et al. **J Neurol Sci** 1997 Jul;149(1):99–102

An in vivo and in vitro H-magnetic resonance spectroscopy study of mdx mouse brain: abnormal development or neural necrosis? Tracey I, et al. **J Neurol Sci** 1996 Sep 15; 141(1-2):13–8

Autosomal dominant early onset dementia and leukoencephalopathy in a Japanese family: clinical, neuroimaging and genetic studies. Utatsu Y, et al. **J Neurol Sci** 1997 Mar 20;147(1):55–62

Counting plaques and tangles in Alzheimer's disease: concordance of technicians and pathologists. van Belle G, et al. **J Neurol Sci** 1997 Feb 12;145(2):141–6

An amyloid protein in familial cerebral amyloid angiopathy (British type) [letter] [see comments] Yamada M. **J Neurol Sci** 1996 Feb;135(2):181. Comment in: J Neurol Sci 1996 Jun;138(1-2):168.

A review: CNS effects and normal tissue tolerance in dogs. Gavin PR, et al. **J Neurooncol** 1997 May;33(1-2):71–80 (25 ref.)

Interstitial fluid flow along white matter tracts: a potentially important mechanism for the dissemination of primary brain tumors. Geer CP, et al. **J Neurooncol** 1997 May; 32(3):193–201

Temporal crescent syndrome with magnetic resonance correlation. Chavis PS, et al. **J Neuroophthalmol** 1997 Sep; 17(3):151–5

The neuropathology of HIV-infected African children in Abidjan, Côte d'Ivoire. Bell JE, et al. **J Neuropathol Exp Neurol** 1997 Jun;56(6):686–92

The pathogenesis of senile plaques. Dickson DW. **J Neuropathol Exp Neurol** 1997 Apr;56(4):321–39 (166 ref.)

Frequency of neuropathological abnormalities in very low birth weight infants. Golden JA, et al. **J Neuropathol Exp Neurol** 1997 May;56(5):472–8

Regional heterogeneity in the response of astrocytes following traumatic brain injury in the adult rat. Hill SJ, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1221–9

The loss of GluR2(3) immunoreactivity precedes neurofibrillary tangle formation in the entorhinal cortex and hippocampus of Alzheimer brains. Ikonomovic MD, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):1018–27

Reduction of calcineurin enzymatic activity in Alzheimer's disease: correlation with neuropathologic changes. Ladner CJ, et al. **J Neuropathol Exp Neurol** 1996 Aug;55(8):924–31

DNA damage distribution in the human brain as shown by in situ end labeling; area-specific differences in aging and Alzheimer disease in the absence of apoptotic morphology. Lucassen PJ, et al. **J Neuropathol Exp Neurol** 1997 Aug; 56(8):887–900

Prevalence and disease associations of argyrophilic grains of Braak. Martinez-Lage P, et al. **J Neuropathol Exp Neurol** 1997 Feb;56(2):157–64

Impact acceleration injury in the rat: evidence for focal axolemmal change and related neurofilament sidearm alteration. Povlishock JT, et al.

J Neuropathol Exp Neurol 1997 Apr;56(4):347–59

Dementia with Lewy bodies versus pure Alzheimer disease: differences in cognition, neuropathology, cholinergic dysfunction, and synapse density. Samuel W, et al. **J Neuropathol Exp Neurol** 1997 May;56(5):499–508

Bax protein expression is increased in Alzheimer's brain: correlations with DNA damage, Bcl-2 expression, and brain pathology. Su JH, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):86–93

Differences between the pathogenesis of senile plaques and congophilic angiopathy in Alzheimer disease. Verbeek MM, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):751–61 (88 ref.)

Psychiatric correlates of MR deep white matter lesions in probable Alzheimer's disease. Lopez OL, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):246–50

Lesion location and poststroke depression. Morris PL, et al. **J Neuropsychiatry Clin Neurosci** 1996 Fall;8(4):399–403

Lack of clinically significant gross structural abnormalities in MRIs of older patients with schizophrenia and related psychoses. Symonds LL, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):251–8

Selective vulnerability of mouse CNS neurons to latent infection with a neuroattenuated herpes simplex virus-1. Kesari S, et al. **J Neurosci** 1996 Sep 15;16(18):5644–53

The swiss cheese mutant causes glial hyperwrapping and brain degeneration in Drosophila. Kretzschmar D, et al. **J Neurosci** 1997 Oct 1;17(19):7425–32

Analysis of spatial patterns in histological sections of brain tissue. Armstrong RA. **J Neurosci Methods** 1997 May 16; 73(2):141–7

The mechanism of Bodian's silver staining: effect of copper ion on silver impregnation. Kondo H, et al. **J Neurosci Methods** 1996 Oct;68(2):275–80

Texture analysis of cerebral white matter in SIV-infected macaque monkeys. Pope TW, et al. **J Neurosci Methods** 1997 Jun 6;74(1):53–64

Establishment of human adult astrocyte cultures derived from postmortem multiple sclerosis and control brain and spinal cord regions: immunophenotypical and functional characterization. De Groot CJ, et al. **J Neurosci Res** 1997 Aug 1;49(3):342–54

Development of plagiocephaly in rabbits with unicoronal synostosis. Burrows AM, et al. **J Neurosurg** 1996 Nov; 85(5):929–36

Isolation and characterization of human malignant glioma cells from histologically normal brain [see comments] Silbergeld DL, et al. **J Neurosurg** 1997 Mar;86(3):525–31 . Comment in: J Neurosurg 1997 Sep;87(3):484–5.

Lesion volume, injury severity, and thalamic integrity following head injury. Anderson CV, et al. **J Neurotrauma** 1996 Jan;13(1):35–40

Time-dependent variability of infarct size and hemispheric volume in experimental focal cerebral ischemia in the rabbit. Browning JL, et al. **J Neurotrauma** 1996 Oct; 13(10):583–8

Delayed administration of basic fibroblast growth factor (bFGF) attenuates cognitive dysfunction following parasagittal fluid percussion brain injury in the rat. McDermott KL, et al. **J Neurotrauma** 1997 Apr; 14(4):191–200

Metabolic quantification of lesion volume following experimental traumatic brain injury in the rat. Perri BR, et al. **J Neurotrauma** 1997 Jan;14(1):15–22

Quantitative MRI of the gray–white matter distribution in traumatic brain injury. Thatcher RW, et al. **J Neurotrauma** 1997 Jan;14(1):1–14

Normal fusion for three-dimensional integrated visualization of SPECT and magnetic resonance brain images. Stokking R, et al. **J Nucl Med** 1997 Apr;38(4):624–9

Changes in cerebral blood flow and oxygen metabolism related to magnetic resonance imaging white matter hyperintensities in Alzheimer's disease. Yamaji S, et al. **J Nucl Med** 1997 Sep;38(9):1471–4

Dissecting the living brain: applications for neuroimaging in the decade of the brain [editorial; comment] Ball WS Jr. **J Pediatr** 1996 Dec;129(6):779–81. Comment on: J Pediatr 1996 Dec;129(6):794–803.

Neuropathologic findings and neurologic symptoms in twenty-three children with hemophagocytic lymphohistiocytosis [see comments] Henter JI, et al. **J Pediatr** 1997 Mar;130(3):358–65. Comment in: J Pediatr 1997 Mar;130(3):337–8.

Brain magnetic resonance imaging in suspected extrapyramidal cerebral palsy: observations in distinguishing genetic-metabolic from acquired causes. Hoon AH Jr, et al. **J Pediatr** 1997 Aug;131(2):240–5

Cerebral gray matter and white matter volume deficits in adolescent girls with anorexia nervosa [see comments] Katzman DK, et al. **J Pediatr** 1996 Dec;129(6):794–803. Comment in: J Pediatr 1996 Dec;129(6):779–81.

Carotid artery and jugular vein ligation with and without hypoxia in the rat. Klein MD, et al. **J Pediatr Surg** 1997 Apr;32(4):565–70

Neuropathological studies of brain tissue in schizophrenia. Bunney BG, et al. **J Psychiatr Res** 1997 Mar–Apr; 31(2):159–73 (100 ref.)

A two-process theory of schizophrenia: evidence from studies in post-mortem brain. Deakin JF, et al. **J Psychiatr Res** 1997 Mar–Apr;31(2):277–95 (130 ref.)

Frequency of neuropathology in a brain bank from a long-term, domiciliary population. Healy DJ, et al. **J Psychiatr Res** 1996 Jan–Feb;30(1):45–9

Postmortem studies in schizophrenic brain [editorial] Meador-Woodruff JH, et al. **J Psychiatr Res** 1997 Mar–Apr;31(2):157–8

Magnetic resonance imaging volumetric and phosphorus 31 magnetic resonance spectroscopy measurements in schizophrenia. Hinsberger AD, et al. **J Psychiatry Neurosci** 1997 Mar;22(2):111–7

ADHD: a circuitry problem [news] **J Psychosoc Nurs Ment Health Serv** 1996 Nov;34(11):6

Cerebral protection during moderate hypothermic circulatory arrest: histopathology and magnetic resonance spectroscopy of brain energetics and intracellular pH in pigs. Filgueiras CL, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1073–80

Antenatal sonographic detection of cerebral white matter necrosis. Hill LM. **J Ultrasound Med** 1997 May; 16(5):377–80

Bovine herpesviral encephalitis: a retrospective study on archived formalin-fixed, paraffin-embedded brain tissue. Ely RW, et al. **J Vet Diagn Invest** 1996 Oct;8(4):487–92

Clinicopathologic variation in raccoons infected with different street rabies virus isolates. Hamir AN, et al. **J Vet Diagn Invest** 1996 Jan;8(1):31–7

Internal hydrocephalus of channel catfish fry (Ictalurus punctatus). Muench TR, et al. **J Vet Diagn Invest** 1997 Jul;9(3):306–8

Immunohistochemical diagnosis of eastern equine encephalomyelitis. Patterson JS, et al. **J Vet Diagn Invest** 1996 Apr;8(2):156–60

Tetratrichomonas gallinarum encephalitis in a mockingbird (Mimus polyglottos). Patton CS, et al. **J Vet Diagn Invest** 1996 Jan;8(1):133–7

Clinical and pathological findings of a Yorkshire terrier affected with necrotizing encephalitis. Sawashima Y, et al. **J Vet Med Sci** 1996 Jul;58(7):659–61

Brain infarction and the clinical expression of Alzheimer disease. The Nun Study [see comments] Snowdon DA, et al. **JAMA** 1997 Mar 12;277(10):813–7. Comment in: JAMA 1997 Jul 9;278(2):113; discussion 114. Comment in: JAMA 1997 Jul 9;278(2):113–4.

Neurologic disorders due to brain manganese deposition in a jaundiced patient receiving long-term parenteral nutrition. Alves G, et al. **JPEN J Parenter Enteral Nutr** 1997 Jan–Feb;21(1):41–5)

Experimental autoimmune encephalomyelitis: the antigen specificity of T lymphocytes determines the topography of lesions in the central and peripheral nervous system. Berger T, et al. **Lab Invest** 1997 Mar;76(3):355–64

Cryptococcus neoformans meningitis in the rat. Goldman DL, et al. **Lab Invest** 1996 Dec;75(6):759–70

Diffuse brain invasion of glioma cells requires beta 1 integrins. Paulus W, et al. **Lab Invest** 1996 Dec;75(6):819–26

Brain lesions in players of contact sports [letter] Autti T, et al. **Lancet** 1997 Apr 19;349(9059):1144

Diffusion-weighted magnetic resonance imaging in Creutzfeldt-Jakob disease [letter] Demaerel P, et al. **Lancet** 1997 Mar 22;349(9055):847–8

Neuropathology of HTLV-1-associated myelopathy (HAM/TSP). Izumo S, et al. **Leukemia** 1997 Apr;11 Suppl 3:82–4

HTLV-I induced myeloneuropathy in WKAH rats: apoptosis and local activation of the HTLV-I pX and TNF-alpha genes implicated in the pathogenesis. Ohya O, et al. **Leukemia** 1997 Apr;11 Suppl 3:255–7

Effect of cyclophosphamide on leukocytic infiltration in the brain of MRL/lpr mice. Farrell M, et al. **Lupus** 1997; 6(3):268–74

Reliability of brain structure morphometry in hydrocephalic children using MR images. Brandt ME, et al. **Magn Reson Imaging** 1996;14(6):649–55

Quantification of MRI lesion load in multiple sclerosis: a comparison of three computer-assisted techniques. Grimaud J, et al. **Magn Reson Imaging** 1996;14(5):495–505

A quantitative in-vivo MR imaging study of brain dehydration in diabetic rats and rats treated with peptide hormones. Haraldseth O, et al. **Magn Reson Imaging** 1997; 15(2):203–10

Perfusion imaging by un-inverted flow-sensitive alternating inversion recovery (UNFAIR). Helpern JA, et al. **Magn Reson Imaging** 1997;15(2):135–9

Fast flair imaging of the brain using the fast spin-echo and gradient spin-echo technique. Hittmair K, et al. **Magn Reson Imaging** 1997;15(4):405–14

Quantitative computer-assisted analysis vs. visual estimation of MR imaging response of brain metastases to radiotherapy. Taphoorn MJ, et al. **Magn Reson Imaging** 1997;15(1):99–106

An oblique cylinder contrast-adjusted (OCCA) phantom to measure the accuracy of MRI brain lesion volume estimation schemes in multiple sclerosis. Tofts PS, et al. **Magn Reson Imaging** 1997;15(2):183–92

Comparison of four potential MR parameters for severe tissue destruction in multiple sclerosis lesions. van Waesberghe JH, et al. **Magn Reson Imaging** 1997;15(2):155–62

In vivo noninvasive determination of abnormal water diffusion in the rat brain studied in an animal model for multiple sclerosis by diffusion-weighted NMR imaging. Verhoye MR, et al. **Magn Reson Imaging** 1996;14(5):521–32

Cerebral magnetic resonance relaxometry in HIV infection. Wilkinson ID, et al. **Magn Reson Imaging** 1996;14(4):365–72

A dual approach for minimizing false lesion classifications on magnetic resonance images. Bedell BJ, et al. **Magn Reson Med** 1997 Jan;37(1):94–102

Line scan diffusion imaging. Gudbjartsson H, et al. **Magn Reson Med** 1996 Oct;36(4):509–19

Quantitative volumetric magnetization transfer analysis in multiple sclerosis: estimation of macroscopic and microscopic disease burden. van Buchem MA, et al. **Magn Reson Med** 1996 Oct;36(4):632–6

Improved intracranial lesion characterization by tissue segmentation based on a 3D feature map. Vinitski S, et al. **Magn Reson Med** 1997 Mar;37(3):457–69

Simple measurement of scanner stability for functional NMR imaging of activation in the brain. Weisskoff RM. **Magn Reson Med** 1996 Oct;36(4):643–5

Fast 3D functional magnetic resonance imaging at 1.5 T with spiral acquisition. Yang Y, et al. **Magn Reson Med** 1996 Oct;36(4):620–6

A cerebrospinal fluid turnover in Parkinson's disease. Jamrozik Z, et al. **Mater Med Pol** 1996 Jul–Sep;28(3):79–82

Proton magnetic resonance spectroscopy can differentiate Alzheimer's disease from normal aging. Parnetti L, et al. **Mech Ageing Dev** 1997 Jul;97(1):9–14

CNS late effects after ALL therapy in childhood. Part I: Neuroradiological findings in long-term survivors of childhood ALL--an evaluation of the interferences between morphology and neuropsychological performance. The German Late Effects Working Group. Hertzberg H, et al. **Med Pediatr Oncol** 1997 Jun; 28(6):387–400

Brain atrophy in children undergoing systemic chemotherapy for extracranial solid tumors. Prassopoulos P, et al. **Med Pediatr Oncol** 1997 Mar;28(3):228–33

Automated three-dimensional registration of magnetic resonance and positron emission tomography brain images by multiresolution optimization of voxel similarity measures. Studholme C, et al. **Med Phys** 1997 Jan; 24(1):25–35

Neuroimaging in Wilson disease. van Wassenaer-van Hall HN. **Metab Brain Dis** 1996 Mar;12(1):1–19 (125 ref.)

Primary degenerative dementias of the non-Alzheimer type. Huete A. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:65–6

Neurobiology of Alzheimer's disease. Lamour Y, et al. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:63–4

MIN-biopsy of brain tumors: operative technique and histomorphological results. Scholz M, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):12–6

2,4-dichlorophenoxyacetic acid through lactation induces astrogliosis in rat brain. Brusco A, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):175–85

Ultrastructural localization of butyrylcholinesterase in senile plaques in the brains of aged and Alzheimer disease patients. Gómez-Ramos P, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):161–73

Neurodegeneration in Alzheimer disease. Is apoptosis involved? Kusiak JW, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1–3):153–62 (41 ref.)

Oral aluminum administration during pregnancy and lactation produces gastric and renal lesions in rat mothers and delay in CNS development of their pups. Poulos BK, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):15–26

Oxidative posttranslational modifications in Alzheimer disease. A possible pathogenic role in the formation of senile plaques and neurofibrillary tangles. Smith MA, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1–3):41–8 (41 ref.)

Mechanisms of neuronal cell death. An overview. Waters CM. **Mol Chem Neuropathol** 1996 May-Aug; 28(1–3):145–51 (41 ref.)

Glia-derived cytokines and the biogenesis of amyloid plaques in Alzheimer's disease. Patel AJ, et al. **Mol Psychiatry** 1997 Mar;2(2):130–2 (20 ref.)

Dentatorubral and pallidoluysian atrophy (DRPLA). Clinical and neuropathological findings in genetically confirmed North American and European pedigrees. Becher MW, et al. **Mov Disord** 1997 Jul;12(4):519–30 (76 ref.)

Mitochondrial respiratory chain function in multiple system atrophy. Gu M, et al. **Mov Disord** 1997 May;12(3):418–22

Magnetic brain stimulation in multiple system atrophy. Wenning GK, et al. **Mov Disord** 1997 May;12(3):452–3

Positron emission tomography, magnetic resonance imaging and proton NMR spectroscopy of white matter in multiple sclerosis. Schiepers C, et al. **Mult Scler** 1997 Feb;3(1):8–17

A case of Isaacs' syndrome with associated central nervous system findings. Ansell J, et al. **Muscle Nerve** 1997 Oct; 20(10):1324–7

Brain biopsy for HIV-infected patients with intracranial lesions. Heald AE. **N C Med J** 1997 Mar–Apr;58(2):106–9

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 26-1997. A 64-year-old man with progressive dementia, seizures, and unstable gait [clinical conference] **N Engl J Med** 1997 Aug 21; 337(8):549–56

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 28-1997. A 67-year-old woman with increasing neurologic deficits and a history of breast and ovarian cancer [clinical conference] **N Engl J Med** 1997 Sep 11;337(11):770–7

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 37-1996. A 51-year-old man with visual problems and an intracranial mass [clinical

conference] **N Engl J Med** 1996 Nov 28;335(22):1668–74
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 39–1996. A 30–year–old man with a generalized tonic–clonic seizure and a left temporal–lobe mass [clinical conference] Anon. **N Engl J Med** 1996 Dec 19;335(25):1906–14
Olfactory dysfunction in multiple sclerosis [letter] [published erratum appears in N Engl J Med 1997 Apr 14;337(7):507] Doty RL, et al. **N Engl J Med** 1997 Jun 26;336(26):1918–9
Decreased apoptosis in the brain and premature lethality in CPP32–deficient mice. Kuida K, et al. **Nature** 1996 Nov 28;384(6607):368–72
Progression of cerebral atrophy in hemodialysis patients: what about hypertension? [letter] Macia M, et al. **Nephron** 1996;73(2):332
Role of hypertension in the development of cerebral atrophy in uremia [letter] Savazzi GM, et al. **Nephron** 1996;73(2):333
Diffuse plaques contain C–terminal A beta 42 and not A beta 40: evidence from cats and dogs. Cummings BJ, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):653–9
Premature aging in Werner's syndrome spares the central nervous system. Postiglione A, et al. **Neurobiol Aging** 1996 May–Jun;17(3):325–30
Identification of a unique apolipoprotein E allele in Microcebus murinus; ApoE brain distribution and co–localization with beta–amyloid and tau proteins. Calenda A, et al. **Neurobiol Dis** 1995 Jun;2(3):169–76
Huntington's disease CAG trinucleotide repeats in pathologically confirmed post–mortem brains. Persichetti F, et al. **Neurobiol Dis** 1994 Dec;1(3):159–66
TG–1: a marker for neuronal nuclei in Alzheimer's disease. Vincent I, et al. **Neurobiol Dis** 1994 Dec;1(3):145–57
The novel sigma ligand JO 1994 protects against ischaemia–induced behavioural changes, cell death and receptor dysfunction in the gerbil. O'Neill M, et al. **Neurochem Int** 1996 Feb;28(2):193–207
Improved selectivity and sensitivity in the visualization of neurofibrillary tangles, plaques and neuropil threads. Cullen KM, et al. **Neurodegeneration** 1996 Jun;5(2):177–87
Cellular aspects of the inflammatory response in Alzheimer's disease. Kalaria RN, et al. **Neurodegeneration** 1996 Dec; 5(4):497–503 (47 ref.)
The prevalence and severity of white matter lesions, their relationship with age, ethnicity, gender, and cardiovascular disease risk factors: the ARIC Study. Liao D, et al. **Neuroepidemiology** 1997;16(3):149–62
Postmortem MR imaging of the brains of patients with AIDS. Scatliff JH, et al. **Neuroimaging Clin N Am** 1997 May; 7(2):297–320
Diagnostic imaging contribution in the early stages of HIV infection of the brain. Trotot PM, et al. **Neuroimaging Clin N Am** 1997 May;7(2):243–60 (92 ref.)
Peritumoral edema and seizure in patients with cerebral convexity and parasagittal meningiomas. Kawaguchi T, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):568–73; discussion 573–4
Cycloheximide reduces the size of lesion caused in rats by a photothrombotic model of brain injury. Kharlamov A, et al. **Neurol Res** 1997 Feb;19(1):92–6
A presenilin–1 mutation in a Japanese family with Alzheimer's disease and distinctive abnormalities on cranial MRI. Aoki M, et al. **Neurology** 1997 Apr;48(4):1118–20
Conduction aphasia in multiple sclerosis: a case report with MRI findings. Arnett PA, et al. **Neurology** 1996 Aug; 47(2):576–8
Brain morphometry in Tourette's syndrome: the influence of comorbid attention–deficit/hyperactivity disorder. Castellanos FX, et al. **Neurology** 1996 Dec;47(6):1581–3
Prognosis after stroke followed by surgical closure of patent foramen ovale: a prospective follow–up study with brain MRI and simultaneous transesophageal and transcranial Doppler ultrasound. Devuyst G, et al. **Neurology** 1996 Nov; 47(5):1162–6
X–linked malformations of neuronal migration. Dobyns WB, et al. **Neurology** 1996 Aug;47(2):331–9 (65 ref.)
The effect of imprecise repositioning on lesion volume measurements in patients with multiple sclerosis. Filippi M, et al. **Neurology** 1997 Jul;49(1):274–6
Interscanner variation in brain MRI lesion load measurements in MS: implications for clinical trials. Filippi M, et al. **Neurology** 1997 Aug;49(2):371–7
Multiple sclerosis lesion detection in the brain: a comparison of fast fluid–attenuated inversion recovery and conventional T2–weighted dual spin echo. Gawne–Cain ML, et al. **Neurology** 1997 Aug;49(2):364–70
Conceptual apraxia from lateralized lesions. Heilman KM, et al. **Neurology** 1997 Aug;49(2):457–64
Intracranial mass lesions in acquired immunodeficiency syndrome: using decision analysis to determine the effectiveness of stereotactic brain biopsy. Holloway RG, et al. **Neurology** 1996 Apr;46(4):1010–5
Proximal myotonic myopathy with MRI white matter abnormalities of the brain. Hund E, et al. **Neurology** 1997 Jan;48(1):33–7
AD neuropathology [letter; comment] Jellinger KA, et al. **Neurology** 1996 Apr;46(4):1186–7. Comment on: Neurology 1995 Mar;45(3 Pt 1):461–6.
Midline cerebral morphometry distinguishes frontotemporal dementia and Alzheimer's disease. Kaufer DI, et al. **Neurology** 1997 Apr;48(4):978–85
Unusual clinical features and early brain MRI lesions in a family with cerebral autosomal dominant arteriopathy. Malandrini A, et al. **Neurology** 1997 May;48(5):1200–3
MR and chemotherapy [letter; comment] Miaux Y, et al. **Neurology** 1996 Nov;47(5):1355. Comment on: Neurology 1995 Jan;45(1):104–8.
Neuropathologic assessment of Alzheimer's disease. Mirra SS, et al. **Neurology** 1997 Sep;49(3 Suppl 3):S14–6
Time course of the apparent diffusion coefficient (ADC) abnormality in human stroke. Schlaug G, et al. **Neurology** 1997 Jul;49(1):113–9
A 44–month clinical–brain MRI follow–up in a patient with B12 deficiency. Stojsavljević N, et al. **Neurology** 1997 Sep; 49(3):878–81
Characterization of MRI response to treatment with interferon beta–1b: contrast–enhancing MRI lesion frequency as a primary outcome measure. Stone LA, et al. **Neurology** 1997 Sep;49(3):862–9
Cortical and subcortical chemical pathology in Alzheimer's disease as assessed by multislice proton magnetic resonance spectroscopic imaging. Tedeschi G, et al. **Neurology** 1996 Sep;47(3):696–704
A new leukoencephalopathy with vanishing white matter. van der Knaap MS, et al. **Neurology** 1997 Apr;48(4):845–55
GFAP is necessary for the integrity of CNS white matter architecture and long–term maintenance of myelination. Liedtke W, et al. **Neuron** 1996 Oct;17(4):607–15
Cerebral amyloid angiopathies. Coria F, et al. **Neuropathol Appl Neurobiol** 1996 Jun;22(3):216–27 (103 ref.)
In vivo toxicity of prion protein in murine scrapie: ultrastructural and immunogold studies. Jeffrey M, et al. **Neuropathol Appl Neurobiol** 1997 Apr;23(2):93–101
Microglia–derived macrophages in early multiple sclerosis plaques. Li H, et al. **Neuropathol Appl Neurobiol** 1996 Jun; 22(3):207–15
Viliuisk encephalomyelitis—review of the spectrum of pathological changes. McLean CA, et al. **Neuropathol Appl Neurobiol** 1997 Jun;23(3):212–7
A form of juvenile Batten disease with granular osmiophilic deposits. Lake BD, et al. **Neuropediatrics** 1996 Oct; 27(5):265–9
Dihydropyrimidinase deficiency, a progressive neurological disorder? Putman CW, et al. **Neuropediatrics** 1997 Apr; 28(2):106–10
Sphingolipid activator proteins (SAPs) in neuronal ceroid lipofuscinoses (NCL). Tyynelä J, et al. **Neuropediatrics** 1997 Feb;28(1):49–52 (41 ref.)
Neuroprotective effects of alpha–lipoic acid and its enantiomers demonstrated in rodent models of focal cerebral ischemia. Wolz P, et al. **Neuropharmacology** 1996 Mar;35(3):369–75
Indeloxazine hydrochloride improves impairment of passive avoidance performance after fluid percussion brain injury in rats. Yamaguchi T, et al. **Neuropharmacology** 1996 Mar; 35(3):329–36
The dopamine agonists lisuride and piribedil protect against behavioural and histological changes following 4–vessel occlusion in the rat. Caldwell MA, et al. **Neuropsychobiology** 1996;34(3):117–24
Psychogeriatric clinical, electro–encephalographic and autopsy findings. Müller HF, et al. **Neuropsychobiology** 1997;35(2):95–101
Is memory loss without anatomical damage tantamount to a psychogenic deficit? The case of pure retrograde amnesia. Di Renzi E, et al. **Neuropsychologia** 1997 Jun;35(6):781–94
On the plausibility of "the neurodevelopmental hypothesis" of schizophrenia. Weinberger DR. **Neuropsychopharmacology** 1996 Mar;14(3 Suppl):1S–11S (78 ref.)
MRI of neuronal ceroid lipofuscinosis. II. Postmortem MRI and histopathological study of the brain in 16 cases of neuronal ceroid lipofuscinosis of juvenile or late infantile type. Autti T, et al. **Neuroradiology** 1997 May;39(5):371–7
MRI of neuronal ceroid lipofuscinosis. I. Cranial MRI of 30 patients with juvenile neuronal ceroid lipofuscinosis. Autti T, et al. **Neuroradiology** 1996 Jul;38(5):476–82
CT and MRI in a girl with late–onset ornithine transcarbamylase deficiency: case report. Bajaj SK, et al. **Neuroradiology** 1996 Nov;38(8):796–9
Incidental white–matter foci on MRI in "healthy" subjects: evidence of subtle cognitive dysfunction. Baum KA, et al. **Neuroradiology** 1996 Nov;38(8):755–60
Use of subvoxel registration and subtraction to improve demonstration of contrast enhancement in MRI of the brain. Curati WL, et al. **Neuroradiology** 1996 Nov; 38(8):717–23
Parenchymal neurocysticercosis: follow–up and staging by MRI. Dumas JL, et al. **Neuroradiology** 1997 Jan;39(1):12–8
Fast FLAIR of the brain: the range of appearances in normal subjects and its application to quantification of white–matter disease. Gawne–Cain ML, et al. **Neuroradiology** 1997 Apr;39(4):243–9
MRI in a case of Sandhoff's disease. Hittmair K, et al. **Neuroradiology** 1996 May;38 Suppl 1:S178–80
MRI of the brain and craniocervical junction in Morquio's disease. Hughes DG, et al. **Neuroradiology** 1997 May; 39(5):381–5
Improved detection of cortical and subcortical tubers in tuberous sclerosis by fluid–attenuated inversion recovery MRI. Kato T, et al. **Neuroradiology** 1997 May;39(5):378–80
Brain MR imaging in patients with hepatic cirrhosis: relationship between high intensity signal in basal ganglia on T1–weighted images and elemental concentrations in brain. Maeda H, et al. **Neuroradiology** 1997 Aug; 39(8):546–50
Cranial MRI findings in myotonic dystrophy. Miaux Y, et al. **Neuroradiology** 1997 Mar;39(3):166–70
Bilateral white matter lesions following severe meningococcal meningoencephalitis. Müller–Jensen A, et al. **Neuroradiology** 1997 Jan;39(1):23–4
MRI in children receiving total parenteral nutrition. Quaghebeur G, et al. **Neuroradiology** 1996 Oct;38(7):680–3
MRI in the mild type of mucopolysaccharidosis II (Hunter's syndrome). Shinomiya N, et al. **Neuroradiology** 1996 Jul; 38(5):483–5
MRI in neuro–Behçet's disease. Tali ET, et al. **Neuroradiology** 1997 Jan;39(1):2–6
c–Jun and cyclin D1 proteins as mediators of neuronal death after a focal ischaemic insult. Guégan C, et al. **Neuroreport** 1997 Mar 3;8(4):1003–7
The stress of being restrained reduces brain damage after a hypoxic–ischaemic insult in the 7–day–old rat. Thoresen M, et al. **Neuroreport** 1996 Jan 31;7(2):481–4
Dementia with Lewy bodies: clustering of Lewy bodies in human patients. Armstrong RA, et al. **Neurosci Lett** 1997 Mar 7;224(1):41–4
Tau protein in the glial cytoplasmic inclusions of multiple system atrophy can be distinguished from abnormal tau in Alzheimer's disease. Cairns NJ, et al. **Neurosci Lett** 1997 Jul 11;230(1):49–52
Identification of necrotic cell death by the TUNEL assay in the hypoxic–ischemic neonatal rat brain. de Torres C, et al. **Neurosci Lett** 1997 Jul 11;230(1):1–4
Protein kinase C in the postmortem brain of teenage suicide victims. Pandey GN, et al. **Neurosci Lett** 1997 Jun 6; 228(2):111–4
Clinical presentation and patterns of regional cerebral atrophy related to the length of trinucleotide repeat expansion in patients with adult onset Huntington's disease. Sieradzan K, et al. **Neurosci Lett** 1997 Mar 28;225(1):45–8
Evidence for an early inflammatory response in the central nervous system of mice with scrapie. Betmouni S, et al. **Neuroscience** 1996 Sep;74(1):1–5
Adenovirus–mediated over–expression of interleukin–1 receptor antagonist reduces susceptibility to excitotoxic brain injury in perinatal rats. Hagan P, et al. **Neuroscience** 1996 Dec;75(4):1033–45
Ischemic damage and subsequent proliferation of oligodendrocytes in focal cerebral ischemia. Mandai K, et al. **Neuroscience** 1997 Apr;77(3):849–61
Correlation between electrophysiological effects of mexiletine and ischemic protection in central nervous system white matter. Stys PK, et al. **Neuroscience** 1996 Mar;71(1):27–36
Radiosurgical lesions in the normal human brain 17 years after gamma knife capsulotomy. Kihlström L, et al. **Neurosurgery** 1997 Aug;41(2):396–401; discussion 401–2
Heads–up intraoperative endoscopic imaging: a prospective evaluation of techniques and limitations. Levy ML, et al. **Neurosurgery** 1997 Mar;40(3):526–30; discussion 530–1
Central nervous system myelin deficit in rats exposed to 2,4–dichlorophenoxyacetic acid throughout lactation. Duffard R, et al. **Neurotoxicol Teratol** 1996 Nov–Dec; 18(6):691–6
Evaluation of brain and nerve pathology in rats chronically dosed with ddI or isoniazid. Schmued LC, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):555–63
Brain atrophy and chronic cocaine abuse: background and work in progress. Langendorf FG, et al. **NIDA Res Monogr** 1996;163:27–42
Astrocytic reaction in long–term resuscitation. Fassina G, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):77–82
Brain perfusion SPET and proton magnetic resonance spectroscopy in the evaluation of two systemic lupus erythematosus patients with mild neuropsychiatric manifestations. Colamussi P, et al. **Nucl Med Commun** 1997 Mar;18(3):269–73
Accuracy of a registration procedure for brain SPET and MRI: phantom and simulation studies. Sipilä O, et al. **Nucl Med Commun** 1997 Jun;18(6):517–26
Comparative study of brain magnetic resonance imaging findings in patients with low–tension glaucoma and control subjects. Ong K, et al. **Ophthalmology** 1995 Nov; 102(11):1632–8
Pathogenesis of murine toxoplasmic hydrocephalus. Stahl W, et al. **Parasitology** 1997 Mar;114 (Pt 3):219–29
Spatial and temporal expression of P–glycoprotein in the congenitally hydrocephalic HTX rat brain. Kuwahara S, et al. **Pathol Res Pract** 1996 May;192(5):496–507
Brain and eye pathology in an infant with Down syndrome and tuberous sclerosis. Jay V. **Pediatr Neurol** 1996 Jul; 15(1):57–9
Brain atrophy in congenital neuromuscular disease with uniform type 1 fibers. Jung EY, et al. **Pediatr Neurol** 1997 Jan;16(1):56–8
Hypertrophy of the cerebral white matter in hemimegalencephaly. Kato M, et al. **Pediatr Neurol** 1996 May;14(4):335–8
Neuroradiological findings in classical late infantile neuronal ceroid–lipofuscinosis. Petersen B, et al. **Pediatr Neurol** 1996 Nov;15(4):344–7
Serial MRI and neurophysiological studies in late–infantile Krabbe disease. Zafeiriou DI, et al. **Pediatr Neurol** 1996 Oct;15(3):240–4
Hyperfractionated craniospinal radiation in medulloblastoma.

Marymont MH, et al. **Pediatr Neurosurg** 1996;24(4):178–84
Liver and brain iron deficiency in newborn infants with bilateral renal agenesis (Potter's syndrome). Georgieff MK, et al. **Pediatr Pathol Lab Med** 1996 May–Jun;16(3):509–19
Disseminated calcification with predominant muscle and cerebral involvement in a child with acquired immunodeficiency syndrome: a case report. Liu J, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):593–600
MR imaging of symptomatic neurocutaneous melanosis in children. Byrd SE, et al. **Pediatr Radiol** 1997 Jan; 27(1):39–44
Retardation of myelination due to dietary vitamin B12 deficiency: cranial MRI findings. Lövblad K, et al. **Pediatr Radiol** 1997 Feb;27(2):155–8
Disappearing enhancing brain lesion in a child with neurofibromatosis type I. Morris PW, et al. **Pediatr Radiol** 1997 Mar;27(3):260–1
Fast fluid-attenuated inversion recovery (FLAIR) magnetic resonance imaging of the brain: a comparison of multi-shot echo-planar and fast spin-echo techniques. Sargent MA, et al. **Pediatr Radiol** 1997 Jun;27(6):545–9
Histologic, molecular, and radiologic characterization of resolving cerebral posttransplant lymphoproliferative disorder. Dean AF, et al. **Pediatr Res** 1997 May;41(5):651–6
Use of the Morris water maze and acoustic startle chamber to evaluate neurologic injury after asphyxial arrest in rats. Hickey RW, et al. **Pediatr Res** 1996 Jan;39(1):77–84
The platelet-activating factor antagonist BN 52021 attenuates hypoxic-ischemic brain injury in the immature rat. Liu XH, et al. **Pediatr Res** 1996 Dec;40(6):797–803
Proton magnetic resonance spectroscopy of the brain in normal preterm and term infants, and early changes after perinatal hypoxia-ischemia. Penrice J, et al. **Pediatr Res** 1996 Jul;40(1):6–14
Quantitative neuropathology by high resolution magic angle spinning proton magnetic resonance spectroscopy. Cheng LL, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6408–13
Aggregation and disaggregation of senile plaques in Alzheimer disease. Cruz L, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7612–6
Developmental abnormalities and age-related neurodegeneration in a mouse model of Down syndrome. Holtzman DM, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13333–8
Restrictive clonal allocation in the chimeric mouse brain [see comments] Kuan CY, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3374–9. Comment in: Proc Natl Acad Sci U S A 1997 Apr 1;94(7):2800–4.
Amphotropic murine leukemia viruses induce spongiform encephalomyelopathy. Münk C, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5837–42
Neuronal death in the central nervous system demonstrates a non-fibrin substrate for plasmin. Tsirka SE, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9779–81
Studies of retrograde memory: a long-term view. Warrington EK. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13523–6
Transforming growth factor-alpha (TGF-alpha) and epidermal growth factor-receptor (EGF-R) immunoreactivity in normal and pathologic brain. Ferrer I, et al. **Prog Neurobiol** 1996 Jun;49(2):99–123 (110 ref.)
Imaging in acquired immune deficiency syndrome dementia complex (AIDS dementia complex): a review. Kim DM, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr;20(3):349–70 (79 ref.)
Magnetic resonance imaging of Alzheimer's disease. Xanthakos S, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 May; 20(4):597–626 (90 ref.)
Higher cerebral dysfunction in a case with atypical multiple sclerosis with concentric lesions. Morioka C, et al. **Psychiatry Clin Neurosci** 1996 Feb;50(1):41–4
Induction of Fos expression following anodal polarization in rat brain. Moriwaki A, et al. **Psychiatry Clin Neurosci** 1995 Dec;49(5–6):295–8
A magnetic resonance imaging study in first-episode disorganized-type patients with schizophrenia. Ohnuma T, et al. **Psychiatry Clin Neurosci** 1997 Feb;51(1):9–15
Quantitative MRI volume changes in late onset schizophrenia and Alzheimer's disease compared to normal controls. Barta PE, et al. **Psychiatry Res** 1997 Feb 7;68(2–3):65–75
Neuroimaging in anorexia nervosa. Herholz K. **Psychiatry Res** 1996 Apr 16;62(1):105–10 (28 ref.)
Qualitative magnetic resonance imaging findings in geriatric depression. Possible link between later-onset depression and Alzheimer's disease? Greenwald BS, et al. **Psychol Med** 1997 Mar;27(2):421–31
Quantitative magnetic resonance imaging and neuropsychological functions in dementia of the Alzheimer type. Pantel J, et al. **Psychol Med** 1997 Jan;27(1):221–9
MR FLAIR imaging of herpes simplex encephalitis. Ashikaga R, et al. **Radiat Med** 1996 Nov–Dec;14(6):349–52
Cortical laminar necrosis in a patient with moyamoya disease associated with Down syndrome: MR imaging findings. Takeda K, et al. **Radiat Med** 1997 Jan–Feb;15(1):59–63
Postmortem MR imaging of lobar cerebral infarction with pathologic and in vivo correlation. Castillo M, et al. **Radiographics** 1996 Mar;16(2):241–50
Infarctlike lesions in the brain: prevalence and anatomic characteristics at MR imaging of the elderly--data from the Cardiovascular Health Study [see comments] Bryan RN, et al. **Radiology** 1997 Jan;202(1):47–54. Comment in: Radiology 1997 Jan;202(1):17–9.
Cerebral hemiatrophy: classification on the basis of MR imaging findings of mesial temporal sclerosis and childhood febrile seizures. Dix JE, et al. **Radiology** 1997 Apr; 203(1):269–74
Phenylketonuria: findings at MR imaging and localized in vivo H-1 MR spectroscopy of the brain in patients with early treatment. Pietz J, et al. **Radiology** 1996 Nov; 201(2):413–20
Postoperative changes in the brain: MR imaging findings in patients without neoplasms. Sato N, et al. **Radiology** 1997 Sep;204(3):839–46
Sulcal, ventricular, and white matter changes at MR imaging in the aging brain: data from the cardiovascular health study [see comments] Yue NC, et al. **Radiology** 1997 Jan; 202(1):33–9. Comment in: Radiology 1997 Jan;202(1):17–9.
In celebrating the 158th anniversary of lacuna cerebri [letter] Ma KC. **Rev Neurol (Paris)** 1996 Oct;152(10):646–9
Meningocerebral lesions in children with iatrogenic AIDS. Bogdan FL, et al. **Rom J Morphol Embryol** 1996 Jan–Jun; 42(1–2):53–62
VBR in schizophrenia: relationship to family history of psychosis and season of birth [published erratum appears in Schizophr Res 1997 May 24;25(2):167] DeQuardo JR, et al. **Schizophr Res** 1996 Jul 5;20(3):275–85 (60 ref.)
The number of triplet repeats in five brain-expressed loci with CAG repeats is not associated with schizophrenia. Gaitonde EJ, et al. **Schizophr Res** 1997 May 24;25(2):111–6
Fibrin degradation products in post mortem brain tissue of schizophrenics: a possible marker for underlying inflammatory processes. Körschenhausen DA, et al. **Schizophr Res** 1996 May;19(2–3):103–9
Qualitative cerebral morphology in schizophrenia: a magnetic resonance imaging study and systematic literature review. Lawrie SM, et al. **Schizophr Res** 1997 May 24;25(2):155–66
Exploratory factor analysis of MRI brain structure measures in schizophrenia. Tien AY, et al. **Schizophr Res** 1996 May; 19(2–3):93–101
Childhood behavioral characteristics and adult brain morphology in schizophrenia. Walker EF, et al. **Schizophr Res** 1996 Nov 15;22(2):93–101
Meta-analysis of brain and cranial size in schizophrenia. Ward KE, et al. **Schizophr Res** 1996 Dec 15;22(3):197–213
Evolution of a strain of CJD that induces BSE-like plaques. Manuelidis L, et al. **Science** 1997 Jul 4;277(5322):94–8
New lesion found in diseased brains [news] Roush W. **Science** 1997 Jul 4;277(5322):31–2
Evidence for the conformation of the pathologic isoform of the prion protein enciphering and propagating prion diversity [see comments] Telling GC, et al. **Science** 1996 Dec 20;274(5295):2079–82. Comment in: Science 1996 Dec 20;274(5295):2010.
New studies affirm BSE-human link [news] Williams N. **Science** 1997 Oct 3;278(5335):31
Neurological features of perinatal asphyxia: a clinical and pathological study of a neonate with multicystic encephalopathy. Butefisch C, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):236–42
Progressive degenerative disorder of the central nervous system. Chaves-Carballo E. **Semin Pediatr Neurol** 1996 Sep;3(3):212–5
Altered consciousness and shock in a malnourished child. Gingold MK, et al. **Semin Pediatr Neurol** 1996 Sep; 3(3):248–54
Progressive spasticity in an infant. Phillips JP, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):202–6
Evidence from imaging on the relationship between brain structure and developmental language disorders. Semrud-Clikeman M. **Semin Pediatr Neurol** 1997 Jun; 4(2):117–24 (53 ref.)
CT and MR findings in central pontine and extrapontine myelinolysis—a study of two patients. Huin E, et al. **Singapore Med J** 1996 Dec;37(6):622–6
Diagnosis of Alzheimer's disease in a community hospital-based brain bank program. Pearl GS. **South Med J** 1997 Jul;90(7):720–2
Intraoperative diagnostic techniques for stereotactic brain biopsy: cytology versus frozen-section histopathology. Hayden R, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):187–93
Intraoperative imaging of the brain. Lunsford LD, et al. **Stereotact Funct Neurosurg** 1996;66(1–3):58–64
Alterations in glia and axons in the brains of Binswanger's disease patients. Akiguchi I, et al. **Stroke** 1997 Jul; 28(7):1423–9
Automated measurement of infarct size with scanned images of triphenyltetrazolium chloride-stained rat brains. Goldlust EJ, et al. **Stroke** 1996 Sep;27(9):1657–62
Progress in understanding white matter hyperintensities [letter; comment] Kidwell CS, et al. **Stroke** 1996 Dec; 27(12):2338. Comment on: Stroke 1996 Aug;27(8):1274–82.
Alterations of the blood-brain barrier and glial cells in white matter lesions in cerebrovascular and Alzheimer's disease patients [letter; comment] Leys D, et al. **Stroke** 1997 Apr; 28(4):874–6. Comment on: Stroke 1996 Nov;27(11):2069–74.
Presence and severity of cerebral white matter lesions and hypertension, its treatment, and its control. The ARIC Study. Atherosclerosis Risk in Communities Study. Liao D, et al. **Stroke** 1996 Dec;27(12):2262–70
Variable agreement between visual rating scales for white matter hyperintensities on MRI. Comparison of 13 rating scales in a poststroke cohort. Mäntylä R, et al. **Stroke** 1997 Aug;28(8):1614–23 (61 ref.)
Xenon contrast CT-CBF measurements in high-intensity foci on T2-weighted MR images in centrum semiovale of asymptomatic individuals. Miyazawa N, et al. **Stroke** 1997 May;28(5):984–7
Cerebral hemispheric low-flow infarcts in arterial occlusive disease. Lesion patterns and angiomorphological conditions. Mull M, et al. **Stroke** 1997 Jan;28(1):118–23
Cerebral white matter is highly vulnerable to ischemia. Pantoni L, et al. **Stroke** 1996 Sep;27(9):1641–6; discussion 1647
How time dependent is the threshold for cerebral infarction? [letter; comment] Read SJ, et al. **Stroke** 1996 Oct; 27(10):1918–20. Comment on: Stroke 1996 Apr;27(4):599–606.
Magnetic resonance imaging white matter hyperintensities in clinically normal elderly individuals. Correlations with plasma concentrations of naturally occurring antioxidants. Schmidt R, et al. **Stroke** 1996 Nov;27(11):2043–7
Alterations of the blood-brain barrier and glial cells in white-matter lesions in cerebrovascular and Alzheimer's disease patients [see comments] Tomimoto H, et al. **Stroke** 1996 Nov;27(11):2069–74. Comment in: Stroke 1997 Apr;28(4):874–6.
Neurological signs and frontal white matter lesions in vascular parkinsonism. A clinicopathologic study. Yamanouchi H, et al. **Stroke** 1997 May;28(5):965–9
Postpartum bilateral subdural hematomas following spinal anesthesia: case report. Cohen JE, et al. **Surg Neurol** 1997 Jan;47(1):6–8
Sequelae of parenteral domoic acid administration in rats: comparison of effects on different anatomical markers in brain. Appel NM, et al. **Synapse** 1997 Apr;25(4):350–8
MR of the brain in children. Grattan-Smith JD, et al. **Top Magn Reson Imaging** 1996 Aug;8(4):193–213 (99 ref.)
Early beginnings for adult brain pathology. Altman J. **Trends Neurosci** 1997 Apr;20(4):143–4
Reversibility in blood-brain barrier, microcirculation, and histology in rat brain after decompression. Nohara A, et al. **Undersea Hyperb Med** 1997;24(1):15–21
Brain imaging. Tucker RL, et al. **Vet Clin North Am Small Anim Pract** 1996 Jul;26(4):735–58 (69 ref.)
Neuronal vacuolation and spinocerebellar degeneration in young Rottweiler dogs. Kortz GD, et al. **Vet Pathol** 1997 Jul;34(4):296–302
Detection of BSE infectivity in brain and spleen of experimentally infected sheep. Foster JD, et al. **Vet Rec** 1996 Jun 1;138(22):546–8
Neuropathology of scrapie: a study of the distribution patterns of brain lesions in 222 cases of natural scrapie in sheep, 1982–1991. Wood JL, et al. **Vet Rec** 1997 Feb 15; 140(7):167–74
Computerized tomography measures of brain slice area and ventricular sizes in protein energy malnutrition: a preliminary study. Adeyinka AO, et al. **West Afr J Med** 1996 Oct–Dec;15(4):232–6
Magnetic resonance spectroscopy and psychiatry. Reus VI. **West J Med** 1996 Mar;164(3):256–7
[A clinical-pathological study on hypoxic ischemic encephalopathy in 124 cases of perinates] Zhang L, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Feb;31(2):100–2 (Eng. Abstr.) **(Chi)**
[The quantitative and morphological analysis of placenta and brain in rabbits with intrauterine fetal growth retardation] Zhang X, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Dec;30(12):724–7 (Eng. Abstr.) **(Chi)**
[Study on the organ weight of sudden death cases] Li S, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr; 25(2):86–8 (Eng. Abstr.) **(Chi)**
[A study on acute multiple sclerosis] Lu C, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):93–5 (Eng. Abstr.) **(Chi)**
[A pathological survey of the therapeutic effect on experimental hypoxic-ischemic encephalopathy] Zhang L, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr; 25(2):102–4 (Eng. Abstr.) **(Chi)**
[Effect of dl-3-n-butylphthalide on delayed neuronal damage after focal cerebral ischemia and intrasynaptosomes calcium in rats] Lin JF, et al. **Yao Hsueh Hsueh Pao** 1996; 31(3):166–70 (Eng. Abstr.) **(Chi)**
[Imaging methods, particularly magnetic resonance, in multiple sclerosis] Seidl Z, et al. **Cas Lek Cesk** 1996 Dec 4;135(23):747–52 (53 ref.) (Eng. Abstr.) **(Cze)**
[Current diagnostic tests for Alzheimer's disease in clinical practice] van Gool WA, et al. **Ned Tijdschr Geneeskd** 1996 Oct 19;140(42):2071–3 **(Dut)**
[Late cerebral radionecrosis of cystic aspect] Richard-Miceli C, et al. **Ann Med Interne (Paris)** 1997;148(1):91–4 (Eng. Abstr.) **(Fre)**
[Isolation, culture and characterization of astrocytes from adult monkey brains] Guillemin G, et al. **C R Seances Soc Biol Fil** 1996;190(5–6):595–601 (Eng. Abstr.) **(Fre)**
[What is your diagnosis? Neurofibromatosis 1] Adamsbaum C, et al. **J Neuroradiol** 1997 Jun;24(1):17, 76–7 **(Fre)**
[Use of a stimulated echo sequence in the MRI study of the brain and spine] Yapo P, et al. **J Neuroradiol** 1996 Sep; 23(2):56–61 (Eng. Abstr.) **(Fre)**
[Conference at the Salpêtrière. 1995 January. Progressive multifocal cerebral involvement in a 70-year-old woman]

Delattre JY, et al. **Rev Neurol (Paris)** 1996 Nov; 152(11):711–7 **(Fre)**

[2 cases of frontal dementia with non-specific histological lesions: clinico-pathological and nosological discussion] Michel B, et al. **Rev Neurol (Paris)** 1996 Nov; 152(11):669–77 (50 ref.) (Eng. Abstr.) **(Fre)**

[Volumetric examination of senile brain involution in dogs] Reifinger M. **Anat Histol Embryol** 1997 Jun;26(2):141–6 (Eng. Abstr.) **(Ger)**

[Reversible bilateral changes in cerebral proton-spin tomography in eclampsia] Müller C, et al. **Dtsch Med Wochenschr** 1996 Sep 27;121(39):1184–8 (Eng. Abstr.) **(Ger)**

[Long-term monitoring of therapy-induced computerized tomographic cranial changes in children with acute lymphoblastic leukemia] Michael C, et al. **Klin Padiatr** 1997 May-Jun;209(3):105–10 (Eng. Abstr.) **(Ger)**

[Structural magnetic resonance tomography in diagnosis and research of Alzheimer type dementia] Hampel H, et al. **Nervenarzt** 1997 May;68(5):365–78 (108 ref.) (Eng. Abstr.) **(Ger)**

[Newborn infant with cerebral symptoms. Leigh disease] Tomczak R, et al. **Radiologe** 1996 Jul;36(7):591–2 **(Ger)**

[A case of necrotizing meningoencephalitis in a pug dog (pug dog encephalitis--PDE)] Hinrichs U, et al. **Tierarztl Prax** 1996 Oct;24(5):489–92 (Eng. Abstr.) **(Ger)**

[Clinical findings and pathology of congenital polycystic renal disease in the goat] Steffen F, et al. **Tierarztl Prax** 1996 Oct;24(5):453–8 (Eng. Abstr.) **(Ger)**

[Magnetic resonance tomography of the brain in amyotrophic lateral sclerosis] Fazekas G, et al. **Wien Med Wochenschr** 1996;146(9–10):204–6 (Eng. Abstr.) **(Ger)**

[Radiology and geriatrics: limits between normal values and pathology exemplified by conventional thoracic roentgen image, cerebral CT and MRI and pelvic-leg angiography] Osterheider MA. **Z Gerontol Geriatr** 1997 May-Jun; 30(3):226–34 (17 ref.) (Eng. Abstr.) **(Ger)**

[Brain MRI in multiple sclerosis] Avitzur Y, et al. **Harefuah** 1996 Nov 15;131(10):421–7 (39 ref.) **(Heb)**

[The neuropsychological study of 21 patients with expanding cerebral lesions. Preliminary results] Bucciero A, et al. **Minerva Psichiatr** 1995 Dec;36(4):199–202 (Eng. Abstr.) **(Ita)**

[Quantitative analysis in neuropathology] Scarpelli M, et al. **Pathologica** 1996 Aug;88(4):322–3 **(Ita)**

[Usefulness of rCBF SPECT in patients with encephalitis: comparison study with MRI] Nagamachi S, et al. **Kaku Igaku** 1997 Jan;34(1):7–17 (Eng. Abstr.) **(Jpn)**

[Clinical features of 5 cases of tuberculous meningitis--with special reference to brain CT and MRI findings] Nozaki H, et al. **Kekkaku** 1997 Mar;72(3):139–46 (Eng. Abstr.) **(Jpn)**

[MR imaging of traumatic head injuries using FLAIR technique] Ashikaga R, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1184–6 (Eng. Abstr.) **(Jpn)**

[Clinical application of three dimensional ultrafast MR imaging to intracerebral traumatic lesions] Enomoto K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1136–41 (Eng. Abstr.) **(Jpn)**

[Evaluation of neuro-Behçet disease with 99mTc-HMPAO brain SPECT: comparison with MR imaging] Kikuchi Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul; 57(8):515–9 (Eng. Abstr.) **(Jpn)**

[MR imaging of carbon monoxide intoxication: evaluation of 13 cases to discuss the relation between MR findings and clinical course] Matsushita H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):948–54 (Eng. Abstr.) **(Jpn)**

[MR spectroscopy in acute brain infarction: differentiation of infarcted and non-infarcted areas] Oya N, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):276–8 (Eng. Abstr.) **(Jpn)**

[Gamma knife radiosurgery for metastatic brain tumors: neuropathological report of two autopsy cases and review of literatures] Tago M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb; 57(3):119–26 (30 ref.) (Eng. Abstr.) **(Jpn)**

[Serial magnetic resonance imaging of acute disseminated encephalomyelitis, including evaluation of the contrast-enhancing effect of lesions by Gd-DTPA] Tanaka Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan; 56(1):25–31 (Eng. Abstr.) **(Jpn)**

[Ischemic neuronal damage in early recovery. A morphological study on evolution of damage in hyperglycemia and normoglycemia] Usuda K, et al. **Nippon Ika Daigaku Zasshi** 1996 Dec;63(6):460–72 (Eng. Abstr.) **(Jpn)**

[Morphologic and functional diagnostic imaging--vertebrobasilar insufficiency] Matsunaga T. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jul;100(7):798–801 **(Jpn)**

[Pathology of asymptomatic cerebrovascular disorders. 1. Lesions involving the cerebral parenchyma--pathology and imaging of asymptomatic cerebral infarction] Koto A. **Nippon Naika Gakkai Zasshi** 1997 May 10;86(5):733–9 **(Jpn)**

[Assessment of cerebral circulation using echo planar imaging--basic analysis in quantitating the mean transit time, cerebral blood flow, and cerebral blood volume] Cho K, et al. **Nippon Rinsho** 1997 Jul;55(7):1726–30 (Eng. Abstr.) **(Jpn)**

[Diffusional anisotropy in cerebral white matter in patients with dementia] Hanyu H, et al. **Nippon Ronen Igakkai Zasshi** 1996 Oct;33(10):761–7 (Eng. Abstr.) **(Jpn)**

[Cranial MRI in the patients with chronic liver disease (CLD)] Nakamura T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):157–62 (Eng. Abstr.) **(Jpn)**

[Image-guided surgery for epilepsy] Hashizume K, et al. **No Shinkei Geka** 1997 Apr;25(4):329–35 (Eng. Abstr.) **(Jpn)**

[FLAIR images of patients with head injuries] Tsurushima H, et al. **No Shinkei Geka** 1996 Oct;24(10):891–5 (Eng. Abstr.) **(Jpn)**

[A case of heat stroke with cortical laminar necrosis on vascular boundary zones] Akaboshi S, et al. **No To Hattatsu** 1996 Sep;28(5):434–7 (Eng. Abstr.) **(Jpn)**

[Reversible changes of cranial MRI in a girl with SLE] Hirayama T, et al. **No To Hattatsu** 1997 Jan;29(1):55–60 (Eng. Abstr.) **(Jpn)**

[The volume of white matter in cerebral palsy with MRI findings of periventricular leukomalacia] Koterazawa K, et al. **No To Hattatsu** 1997 Jan;29(1):33–8 (Eng. Abstr.) **(Jpn)**

[Focal cortical dysplasia and epilepsy surgery] Mihara T, et al. **No To Hattatsu** 1997 Mar;29(2):134–44 (Eng. Abstr.) **(Jpn)**

[Causative factors resulting in intractability of congenital hydrocephalus--analysis of psychomotor development and MRI findings of the brain in sixteen congenitally hydrocephalic patients] Shimada J, et al. **No To Hattatsu** 1997 Jan;29(1):19–26 (Eng. Abstr.) **(Jpn)**

[Age-related changes of diffusional anisotropy in the cerebral white matter in normal subjects] Hanyu H, et al. **No To Shinkei** 1997 Apr;49(4):331–6 (Eng. Abstr.) **(Jpn)**

[Serial changes of SPECT and MRI findings in a patient with herpes simplex encephalitis] Kurokawa Y, et al. **No To Shinkei** 1996 Feb;49(2):163–9 (Eng. Abstr.) **(Jpn)**

[A patient with spontaneous intracranial hypotension--comparison between MRI findings and meningeal pathology] Niwa K, et al. **No To Shinkei** 1997 Jun;49(6):541–6 (Eng. Abstr.) **(Jpn)**

[Neuropathology of AIDS: opportunistic infections and HIV encephalopathy] Shintaku M. **No To Shinkei** 1997 Jan; 49(1):5–17 (118 ref.) **(Jpn)**

[Unilateral visual disturbance] Taguchi Y, et al. **No To Shinkei** 1996 Feb;49(2):182–3 (Eng. Abstr.) **(Jpn)**

[Magnetic resonance imaging in thiamine responsive pyruvate dehydrogenase complex deficiency] Takusa Y, et al. **No To Shinkei** 1996 Dec;48(12):1152–3 **(Jpn)**

[White matter lesions after occlusion of the bilateral carotid arteries in the rat--temporal profile of cerebral blood flow (CBF), oligodendroglia and myelin] Tomimoto H, et al. **No To Shinkei** 1997 Jul;49(7):639–44 (Eng. Abstr.) **(Jpn)**

[FLAIR images of cerebral and brain stem infarction] Tsurushima H, et al. **No To Shinkei** 1996 Nov; 48(11):1029–33 (Eng. Abstr.) **(Jpn)**

[Magnetic resonance imaging of Kernohan's notch in chronic subdural hematoma] Yamasaki F, et al. **No To Shinkei** 1997 Jun;49(6):563–6 (Eng. Abstr.) **(Jpn)**

[A comparative study on histopathological findings between Alzheimer's disease and senile dementia of Alzheimer type] Nakamura N. **Rinsho Byori** 1996 Mar;44(3):225–30 (5 ref.) (Eng. Abstr.) **(Jpn)**

[In-111-labeled leukocyte brain SPECT imaging in acute ischemic stroke in man] Fujinuma K, et al. **Rinsho Shinkeigaku** 1997 Jan;37(1):13–20 (Eng. Abstr.) **(Jpn)**

[Differences of neuroimaging between early-onset and late-onset Alzheimer-type dementia] Hanyu H, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1104–9 (Eng. Abstr.) **(Jpn)**

[A case of Dyke-Davidoff-Masson syndrome with total hemiatrophy] Hozumi A, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1143–9 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Some problems on neuropathology of Huntington disease] Iwabuchi K. **Rinsho Shinkeigaku** 1995 Dec;35(12):1537–9 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Coagulation and fibrinolytic parameters as predictors for small-vessel disease revealed by magnetic resonance imaging of the brain] Kohriyama T, et al. **Rinsho Shinkeigaku** 1996 May;36(5):640–7 (Eng. Abstr.) **(Jpn)**

[The diagnosis of amyotrophic lateral sclerosis supported by motor evoked potential and brain MRI studies] Matsunaga K, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):233–8 (Eng. Abstr.) **(Jpn)**

[Progressive ataxic hemiparesis with asymmetric cortical and cerebral peduncular atrophy--report of two cases] Nishimura Y, et al. **Rinsho Shinkeigaku** 1996 Jun; 36(6):764–9 (Eng. Abstr.) **(Jpn)**

[An autopsied case of atypical presenile dementia which shows lobar atrophy, severe neurofibrillary tangles and calcification] Ujihira N, et al. **Rinsho Shinkeigaku** 1997 Apr; 37(4):292–9 (Eng. Abstr.) **(Jpn)**

[MR imaging of the brain of amyotrophic lateral sclerosis] Yagishita A. **Rinsho Shinkeigaku** 1995 Dec;35(12):1554–6 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Cerebrovascular parkinsonism--clinicopathologic study] Yamanouchi H, et al. **Rinsho Shinkeigaku** 1995 Dec; 35(12):1457–8 (Eng. Abstr.) **(Jpn)**

[Relationship between SPECT and pathological alterations in Alzheimer's disease--a study of a case with left-hemisphere dominant lesions] Nakano N, et al. **Seishin Shinkeigaku Zasshi** 1996;98(7):441–59 (Eng. Abstr.) **(Jpn)**

[Alzheimer-type dementia and related disorders: their neuropathological aspects] Ikeda K. **Tanpakushitsu Kakusan Koso** 1996 Aug;41(10):1476–82 (18 ref.) **(Jpn)**

[Multiple pleomorphic xanthoastrocytoma tumors in a 12-year-old girl] Daszkiewicz P, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):517–24 (Eng. Abstr.) **(Pol)**

[Multifocal astrocytoma diagnosed by peroperative ultrasound scanning] Harat M, et al. **Neurol Neurochir Pol** 1996 Sep-Oct;30(5):861–6 (Eng. Abstr.) **(Pol)**

[Primary brain lymphoma: diagnostic problems] Mierzejewska E, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):1033–42 (Eng. Abstr.) **(Pol)**

[The blood-brain barrier. II. Pathology: brain tumors, brain edema, hypertension, epilepsy] Sobaniec W, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):1009–19 (Eng. Abstr.) **(Pol)**

[Craniocerebral imaging in children with short stature] Barros L, et al. **Acta Med Port** 1997 May;10(5):361–5 (Eng. Abstr.) **(Por)**

[Role of various hierarchical brain structures in psychoemotional stress] Pisarev VB, et al. **Biull Eksp Biol Med** 1996 May;121(5):578–82 **(Rus)**

[Histological and ultrastructural study of the brain of laboratory animals exposed to magnetic fields] Vendilo MV, et al. **Med Tr Prom Ekol** 1997;(1):14–6 (Eng. Abstr.) **(Rus)**

[Morphological changes in the rat brain after applying electrostimulation to the emotiogenic areas of the lateral hypothalamus] Semenov SP, et al. **Morfologiia** 1996; 109(3):14–8 (Eng. Abstr.) **(Rus)**

[The clinical aspect of the joint use of magnetic resonance tomography of the brain and magnetic resonance angiography of the extra- and intracranial arteries in patients with arterial hypertension] Abramova NN, et al. **Ter Arkh** 1996;68(9):26–31 (Eng. Abstr.) **(Rus)**

[Multisystem atrophy] Elkin MN, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):93–7 **(Rus)**

[Digitalization of histological images as a method of quantifying the demyelinating process] Stojiljković G, et al. **Med Pregl** 1996;49(11–12):437–42 (Eng. Abstr.) **(Scr)**

[Analysis of intensity of post-stroke depression and its relationship with the cerebral lesion location (see comments)] González Torrecillas JI, et al. **Med Clin (Barc)** 1997 Sep 6;109(7):241–4 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Sep 6;109(7):256–7. **(Spa)**

[Senile dementia, hepatopathy and hydrocephalus (clinical conference)] **Medicina (B Aires)** 1995;55(5 Pt 1):439–47 **(Spa)**

[Exophthalmos and cranial neuropathy as a form of presentation of Wegener's granulomatosis] Campello I, et al. **Neurologia** 1997 Apr;12(4):168–71 (Eng. Abstr.) **(Spa)**

[Neuropathology of refractory epilepsy in children] Alvarez LA, et al. **Rev Neurol** 1997 May;25(141):757–9 (20 ref.) (Eng. Abstr.) **(Spa)**

[Measurement of intracranial pressure as a factor in the prognosis of the course of serious cranio-encephalic injuries] Arrotegui JI, et al. **Rev Neurol** 1997 Jul; 25(143):1022–4 (Eng. Abstr.) **(Spa)**

[Miliary metastases to the brain (letter) (see comments)] Beltrán I, et al. **Rev Neurol** 1996 Mar;24(127):352–3. Comment in: Rev Neurol 1996 Oct;24(134):1305–6. **(Spa)**

[Sarcoidosis: the presentation of a case with clinical features limited to the nervous system] Campello-Morer I, et al. **Rev Neurol** 1997 Jul;25(143):1079–81 (Eng. Abstr.) **(Spa)**

[Primary cerebral lymphoma of T phenotype in an immunocompetent patient] Días-Silva JJ, et al. **Rev Neurol** 1997 Apr;25(140):550–2 (Eng. Abstr.) **(Spa)**

[Primary cerebral lymphoma in a immunologically healthy patient. Letter] López-Gastón J, et al. **Rev Neurol** 1997 Feb;25(138):312–3 **(Spa)**

[Primary cerebral lymphoma: atypical image] Madrid A, et al. **Rev Neurol** 1996 Oct;24(134):1301 **(Spa)**

[Demyelinating diseases in childhood: diagnostic contribution of magnetic resonance] Menor F. **Rev Neurol** 1997 Jun; 25(142):966–9 (22 ref.) (Eng. Abstr.) **(Spa)**

[Follow-up study of the evolution of the quantitative EEG in intraventricular infusion of nerve growth factor in an aged baboon] Morales-Chacón L, et al. **Rev Neurol** 1997 Jun;25(142):850–5 (Eng. Abstr.) **(Spa)**

[Low grade disseminated astrocytoma in childhood] Pérez MJ, et al. **Rev Neurol** 1997 Jun;25(142):877–81 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Opioids in the brain: supraspinal mechanisms in pain control. Jensen TS. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 2):123–32 (61 ref.)

Nonpharmacological neuronal protection. Dumitrescu RV, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:59–60

The nervous system at risk--an overview. Gelb AW. **Acta Anaesthesiol Scand Suppl** 1996;109:48–50 (8 ref.)
Mapping brain function with magnetic resonance imaging. Ugurbil K. **Acta Anaesthesiol Scand Suppl** 1997;110:113–5
Interhemispheric differences of sleep EEG complexity. Szelenberger W, et al. **Acta Neurobiol Exp (Warsz)** 1996; 56(4):955–9
The measurement of extracellular inorganic phosphate gives a more reliable indication for severe impairment of cerebral cell function and cell death than the measurement of extracellular lactate. Scheller D, et al. **Acta Neurochir Suppl (Wien)** 1996;67:28–30
Keeping in mind the mind: mental functions, networks and neurosurgery. Steiger HJ, et al. **Acta Neurochir (Wien)** 1996;138(8):898–906 (48 ref.)
Autologous connective tissue chamber as a tool for introducing active substances into the CNS. Barski JJ, et al. **Acta Physiol Hung** 1996;84(1):43–53
Dissociation between behavioral and psychophysiological measures of response preparation. Miller J, et al. **Acta Psychol (Amst)** 1996 Nov;94(2):189–208
Morphine affects the brain–immune axis by modulating an interleukin-1 beta dependent pathway. Chang SL, et al. **Adv Exp Med Biol** 1996;402:35–42 (34 ref.)
Quinolinic acid and active oxygens. Possible contribution of active Oxygens during cell death in the brain. Goda K, et al. **Adv Exp Med Biol** 1996;398:247–54
Can we measure correlates of neuronal activity with non-invasive optical methods? Gratton G, et al. **Adv Exp Med Biol** 1997;413:53–62 (27 ref.)
Linking cerebral blood oxygenation to human brain function. Current issues for human neuroscience by magnetic resonance neuroimaging. Kleinschmidt A, et al. **Adv Exp Med Biol** 1997;413:221–33 (39 ref.)
Neuronal–vascular coupling. A unifying hypothesis. Kuschinsky W. **Adv Exp Med Biol** 1997;413:167–76 (28 ref.)
Neuroprotective effects of melatonin. Lipartiti M, et al. **Adv Exp Med Biol** 1996;398:315–21 (28 ref.)
Distributions of taurine, glutamate, and glutamate receptors during post-natal development and plasticity in the rat brain. Magnusson KR. **Adv Exp Med Biol** 1996;403:435–44
Cerebral oxygenation changes during motor and somatosensory stimulation in humans, as measured by near–infrared spectroscopy. Obrig H, et al. **Adv Exp Med Biol** 1996;388:219–24
The effects of a selective inhibitor of tryptophan 2,3–dioxygenase and a combined inhibitor of tryptophan 2,3–dioxygenase and 5–HT reuptake on serotonergic function in the rat. Salter M, et al. **Adv Exp Med Biol** 1996; 398:61–5
Role of taurine in thermoregulation and motor control. Behavioural and cellular studies. Sgaragli G, et al. **Adv Exp Med Biol** 1996;403:527–35
Functional neuroimaging. Optical approaches. Villringer A. **Adv Exp Med Biol** 1997;413:1–18 (83 ref.)
Endogenous kynurenine derivatives and pain. Weil–Fugazza J. **Adv Exp Med Biol** 1996;398:83–7 (27 ref.)
The effect of low brain serotonin on mood and aggression in humans. Influence of baseline mood and genetic factors. Young SN, et al. **Adv Exp Med Biol** 1996;398:45–50 (24 ref.)
Compensatory regeneration of the damaged adult human brain: neuroplasticity in a clinical perspective. Goldman S, et al. **Adv Neurol** 1997;73:99–107 (46 ref.)
Microimplantation of glial cells to promote regeneration of a lesioned fiber tract in the adult mammalian brain. Müller HW, et al. **Adv Neurol** 1997;73:29–36 (34 ref.)
Hemisphere activation during motor tasks [letter; comment] Bohannon RW. **AJNR Am J Neuroradiol** 1997 Feb; 18(2):398–400. Comment on: AJNR Am J Neuroradiol 1996 Apr;17(4):651–5.
Use of functional MR to map language in multilingual volunteers. Yetkin O, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):473–7
A prospective study of cognitive health in the elderly (Oregon Brain Aging Study): effects of family history and apolipoprotein E genotype. Payami H, et al. **Am J Hum Genet** 1997 Apr;60(4):948–56
Cardiovascular regulation by L–arginine in the brain of rats: role of the brain renin–angiotensin system and nitric oxide. Nishimura M, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):389–96
Cerebral hemodynamics and cerebral metabolism during cold and warm stress. Doering TJ, et al. **Am J Phys Med Rehabil** 1996 Nov–Dec;75(6):408–15
Central infusion of the AT1 receptor antagonist losartan inhibits thirst but not sodium appetite in cattle. Blair–West JR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1940–5
Central opioid receptors mediate glucoprivic inhibition of pituitary LH secretion. Briski KP. **Am J Physiol** 1997 Apr; 272(4 Pt 1):E517–22
Central insulin and macronutrient intake in the rat. Chavez M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R727–31
5–HT in DVC: disparate effects on TRH analogue–stimulated gastric acid secretion, motility, and cytoprotection. Chi J, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R368–72
Deterministic and probabilistic control of the behavior of rats ingesting liquid diets. Davis JD. **Am J Physiol** 1996 Apr;270(4 Pt 2):R793–800
Brain of the conscious dog is sensitive to physiological changes in circulating insulin. Davis SN, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E567–75
Electroencephalogram activity in the anoxic turtle brain. Fernandes JA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R911–9
Central effects of morphine and morphine–6–glucuronide on tissue protein synthesis. Hashiguchi Y, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R619–25
Effects of elevated plasma epinephrine on glucose utilization and blood flow in conscious rat brain. Horinaka N, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1666–71
Sympathoexcitatory and pressor responses to increased brain sodium and ouabain are mediated via brain ANG II. Huang BS, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H275–80
Role of the brain in energy balance and obesity [editorial] Levin BE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R491–500 (143 ref.)
Selective brain cooling: role of angularis oculi vein and nasal thermoreception. Maloney SK, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1108–16
Central somatostatin prevents vagal efferent nerve excitation produced by TRH but not by 2–deoxy–D–glucose. Masuda M, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G351–6
Brain angiotensinergic pathways mediate renal nerve inhibition by central hypertonic NaCl in conscious sheep. May CN, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R593–600
Fos induction in rat brain neurons after stimulation of the hepatoportal Na–sensitive mechanism. Morita H, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R913–23
Apolipoprotein A–IV acts in the brain to inhibit gastric emptying in the rat. Okumura T, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G49–53
Central catecholaminergic neurons are involved in expression of the 10–Hz rhythm in SND. Orer HS, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R333–41
Neuroanatomic organization of the parasympathetic bronchomotor system in developing sheep. Pérez Fontán JJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R121–33
Mechanisms of centrally administered ET–1–induced increases in systemic arterial pressure and AVP secretion. Rossi NF, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E126–32
Osmoregulation of the magnocellular neuroendocrine system during lactation. Summy–Long JY, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R275–88
Inhibition of tumor necrosis factor prevents warming–induced sleep responses in rabbits. Takahashi S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1325–9
Central administration of GLP–1–(7–36) amide inhibits food and water intake in rats. Tang–Christensen M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R848–56
Central infusion of GLP–1, but not leptin, produces conditioned taste aversions in rats. Thiele TE, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R726–30
Central infusions of leptin and GLP–1–(7–36) amide differentially stimulate c–FLI in the rat brain. Van Dijk G, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1096–100
Role of brain angiotensin II in thirst and sodium appetite of sheep. Weisinger RS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R187–96
Three types of postsynaptic glutamatergic receptors are activated in DMNX neurons upon stimulation of NTS. Willis A, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1614–9
Direct interpretation of dreams: neuropsychology. van den Daele L. **Am J Psychoanal** 1996 Sep;56(3):253–68 (34 ref.)
Brain cooling in humans--anatomical considerations. Zenker W, et al. **Anat Embryol (Berl)** 1996 Jan;193(1):1–13 (57 ref.)
Role of central mu, delta–1, and kappa–1 opioid receptors in opioid–induced muscle rigidity in the rat. Vankova ME, et al. **Anesthesiology** 1996 Sep;85(3):574–83
Circulating pyrogen signaling of the brain. A new working hypothesis. Blatteis CM, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:445–7
Studies of the pharmacology, localization, and structure of muscarinic acetylcholine receptors. Brann MR, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:225–36 (59 ref.)
Heat loss from the upper airways and selective brain cooling in humans. Cabanac M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:613–6
Psychological and neuroendocrinological sequelae of early social deprivation in institutionalized children in Romania. Carlson M, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:419–28 (34 ref.)
The integrative neurobiology of affiliation. Introduction. Carter CS, et al. **Ann N Y Acad Sci** 1997 Jan 15; 807:xiii–xviii
The beta–amyloid peptide, peptide self–assembly, and the emergence of biological activities. A new principle in peptide function and the induction of neuropathology. Cotman CW. **Ann N Y Acad Sci** 1997 Apr 24;814:1–16 (55 ref.)
Species diversity and the evolution of behavioral controlling mechanisms. Crews D. **Ann N Y Acad Sci** 1997 Jan 15; 807:1–21 (64 ref.)
Brain sexual dimorphism and sex differences in parental and other social behaviors. De Vries GJ, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:273–86 (89 ref.)
Exploratory behavior correlates with social organization and is responsive to peptide injections in prairie voles. Dharmadhikari A, et al. **Ann N Y Acad Sci** 1997 Jan 15; 807:610–2
Neurohumoral brain dynamics of social group formation. Implications for autism. Freeman WJ. **Ann N Y Acad Sci** 1997 Jan 15;807:501–3
Ontogeny of PACAP and PACAP receptors in the rat brain: role of PACAP in the cerebellum during development. Gonzalez BJ, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:302–13; discussion 313–4 (51 ref.)
Neurobiology of avian social organization. Effects of lateral septum lesions in a territorial songbird, the field sparrow (Spizella pusilla), and a colonial songbird, the zebra finch (Taeniopygia guttata). Goodson JL, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:518–21
Audio–vocal learning in budgerigars. Hall WS, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:352–67 (58 ref.)
Molecular aspects of monogamy. Insel TR, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:302–16 (44 ref.)
Social attachment, brain function, and aggression. Kraemer GW, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:121–35
Lateral distribution of brain signals controlling selective brain cooling and vasomotoric activity. Kuhnen G. **Ann N Y Acad Sci** 1997 Mar 15;813:123–6
The brain is an important target of adrenal steroid actions. A comparison of synthetic and natural steroids. McEwen BS. **Ann N Y Acad Sci** 1997 Aug 14;823:201–13 (84 ref.)
Molecular characterization of NMDA and metabotropic glutamate receptors. Masu M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:153–64 (36 ref.)
Using emerging technologies such as virtual reality and the World Wide Web to contribute to a richer understanding of the brain. Merril JR. **Ann N Y Acad Sci** 1997 May 30; 820:229–33 (0 ref.)
Structure and function of inositol 1,4,5–trisphosphate receptor. Mikoshiba K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:178–97 (65 ref.)
Macrophage inflammatory protein–1 beta and inducible nitric oxide synthase immunoreactivity in rat brain during prostaglandin E2– or lipopolysaccharide–induced fever. Miñano FJ, et al. **Ann N Y Acad Sci** 1997 Mar 15; 813:272–80
Molecular and functional diversity of the NMDA receptor channel. Mishina M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:136–52 (43 ref.)
Oxytocin–induced paw sucking in infant rats. Nelson E, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:543–5
Mating–induced c–fos expression patterns complement and supplement observations after lesions in the male Syrian hamster brain. Newman SW, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:239–59 (44 ref.)
Neural correlates of sensitive periods in avian song learning. Nordeen KW. **Ann N Y Acad Sci** 1997 Jan 15;807:386–400 (109 ref.)
Neuroanatomical circuitry for mammalian maternal behavior. Numan M, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:101–25 (71 ref.)
Brain systems for the mediation of social separation–distress and social–reward. Evolutionary antecedents and neuropeptide intermediaries. Panksepp J, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:78–100 (63 ref.)
Oxytocin control of maternal behavior. Regulation by sex steroids and offspring stimuli. Pedersen CA. **Ann N Y Acad Sci** 1997 Jan 15;807:126–45 (65 ref.)
Use of nonpeptide antagonists to explore the physiological roles of neurotensin. Focus on brain neurotensin/dopamine interactions. Rostene W, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:125–41 (82 ref.)
The effect of hyperthermia on PGE2 production by primary brain culture after exposure to LPS. Shemi D, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:310–3
Open field–induced rise in body temperature and plasma IL–6 is mediated by beta–adrenoceptors in the brain. Soszynski D, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:413–9
Primary structure and expression from cDNAs of the ryanodine receptor. Takeshima H. **Ann N Y Acad Sci** 1993 Dec 20;707:165–77
Physiological and endocrine effects of social contact. Uvnäs–Moberg K. **Ann N Y Acad Sci** 1997 Jan 15; 807:146–63 (90 ref.)
Regulatory mechanisms of oxytocin–mediated sociosexual behavior. Witt DM. **Ann N Y Acad Sci** 1997 Jan 15; 807:287–301 (80 ref.)
Functional imaging of human right hemispheric activation for exploratory movements. Gitelman DR, et al. **Ann Neurol** 1996 Feb;39(2):174–9
Retrograde cerebral perfusion is an effective means of neural support during deep hypothermic circulatory arrest [see comments] Coselli JS. **Ann Thorac Surg** 1997 Sep; 64(3):908–12 (29 ref.). Comment in: Ann Thorac Surg 1997 Sep;64(3):913–6.
Is retrograde cerebral perfusion an effective means of neural support during deep hypothermic circulatory arrest? [comment] Griepp RB, et al. **Ann Thorac Surg** 1997 Sep; 64(3):913–6 (34 ref.). Comment on: Ann Thorac Surg 1997 Sep;64(3):908–12.
The significance of neural ensemble codes during behavior and cognition. Deadwyler SA, et al. **Annu Rev Neurosci** 1997;20:217–44 (91 ref.)
Neurobiology of speech perception. Fitch RH, et al. **Annu Rev Neurosci** 1997;20:331–53 (103 ref.)
Mechanisms and molecules that control growth cone guidance. Goodman CS. **Annu Rev Neurosci** 1996; 19:341–77 (178 ref.)
Visual object recognition. Legothetis NK, et al. **Annu Rev Neurosci** 1996;19:577–621 (228 ref.)
An urge to explain the incomprehensible: Geoffrey Harris and the discovery of the neural control of the pituitary

gland. Raisman G. **Annu Rev Neurosci** 1997;20:533–66 (112 ref.)
Addictive drugs and brain stimulation reward. Wise RA. **Annu Rev Neurosci** 1996;19:319–40 (202 ref.)
O2-sensing mechanisms in excitable cells: role of plasma membrane K+ channels. Haddad GG, et al. **Annu Rev Physiol** 1997;59:23–42 (73 ref.)
Central cholinergic systems and cognition. Everitt BJ, et al. **Annu Rev Psychol** 1997;48:649–84 (210 ref.)
The use of animal models to study the effects of aging on cognition. Gallagher M, et al. **Annu Rev Psychol** 1997; 48:339–70 (160 ref.)
Neurobiological constraints on behavioral models of motivation. Nader K, et al. **Annu Rev Psychol** 1997; 48:85–114 (165 ref.)
What's elementary about associative learning? Wasserman EA, et al. **Annu Rev Psychol** 1997;48:573–607 (245 ref.)
OB protein: A peripheral signal linking adiposity and central neural networks. Campfield LA, et al. **Appetite** 1996 Jun; 26(3):302
One or many arousal systems? Reflections on some of Giuseppe Moruzzi's foresights and insights about the intrinsic regulation of brain activity. Berlucchi G. **Arch Ital Biol** 1997 Jan;135(1):5–14 (38 ref.)
Neurobiological principles of learning and memory. Brunelli M, et al. **Arch Ital Biol** 1997 Jan;135(1):15–36 (69 ref.)
The neuroethology of cognitive maps: contributions from research on the hippocampus and homing pigeon navigation. Casini G, et al. **Arch Ital Biol** 1997 Jan; 135(1):73–92 (69 ref.)
Brain activation, then (1949) and now: coherent fast rhythms in corticothalamic networks. Steriade M. **Arch Ital Biol** 1995 Dec;134(1):5–20 (69 ref.)
P3 latency change in aging and Parkinson disease. Tachibana H, et al. **Arch Neurol** 1997 Mar;54(3):296–302
To be male or female--that is the question [editorial; comment] Reiner W. **Arch Pediatr Adolesc Med** 1997 Mar; 151(3):224–5. Comment on: Arch Pediatr Adolesc Med 1997 Mar;151(3):298–304.
Behavioural and EEG changes in sheep in response to painful acute electrical stimuli. Ong RM, et al. **Aust Vet J** 1997 Mar;75(3):189–93
The effects of gonadal steroids on brain stimulation reward in female rats. Bless EP, et al. **Behav Brain Res** 1997 Jan; 82(2):235–44
Neurobiology of consciousness: an overview. Delacour J. **Behav Brain Res** 1997 May;85(2):127–41 (126 ref.)
Oxotremorine infusions into the medial septal area of middle-aged rats affect spatial reference memory and ChAT activity. Frick KM, et al. **Behav Brain Res** 1996 Oct;80(1–2):99–109
Murine models of brain aging and age-related neurodegenerative diseases. Jucker M, et al. **Behav Brain Res** 1997 Apr;85(1):1–26 (261 ref.)
Psychobiology of plasticity: effects of training and experience on brain and behavior. Rosenzweig MR, et al. **Behav Brain Res** 1996 Jun;78(1):57–65 (79 ref.)
Neural systems for the expression of hypoalgesia during nonassociative fear. Bellgowan PS, et al. **Behav Neurosci** 1996 Aug;110(4):727–36
Evidence for localized and discrete roles for enkephalins during memory formation in the chick. Colombo PJ, et al. **Behav Neurosci** 1997 Feb;111(1):114–22
Tail-flick test: II. The role of supraspinal systems and avoidance learning. King TE, et al. **Behav Neurosci** 1997 Aug;111(4):754–67
Mice lacking the 65 kDa isoform of glutamic acid decarboxylase (GAD65) maintain normal levels of GAD67 and GABA in their brains but are susceptible to seizures. Asada H, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):891–5
Acute exposure to 25-hydroxy-cholesterol selectively reduces GABAb and not GABAa receptor-mediated synaptic inhibition. Phelan KD, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):68–73
The central regulation of energy homeostasis: roles of neuropeptide Y and other brain peptides. Bing C, et al. **Biochem Soc Trans** 1996 May;24(2):559–65 (47 ref.)
Topographic EEG mapping of the relaxation response. Jacobs GD, et al. **Biofeedback Self Regul** 1996 Jun; 21(2):121–9
Is the alpha rhythm a control parameter for brain responses? Başar E, et al. **Biol Cybern** 1997 Jun;76(6):471–80
Visual evoked potentials for prediction of neurodevelopmental outcome in preterm infants. Ekert PG, et al. **Biol Neonate** 1997;71(3):148–55
Slow negative brain potentials as reflections of specific modular resources of cognition. Rösler F, et al. **Biol Psychol** 1997 Mar 21;45(1–3):109–41 (86 ref.)
Growth spurts in brain maturation during middle childhood as indexed by EEG power spectra. Somsen RJ, et al. **Biol Psychol** 1997 Jan 31;44(3):187–209
Effects of medial preoptic area and septal lesions on puberty in female guinea pigs. Olster DH, et al. **Biol Reprod** 1997 Mar;56(3):731–8
Brain, language and the origin of human mental functions. Maturana H, et al. **Biol Res** 1995;28(1):15–26 (13 ref.)
Ion conductance of the Ca(2+)-activated maxi-K+ channel from the embryonic rat brain. Mienville JM, et al. **Biophys J** 1997 Jan;72(1):188–92
Analytical description of the activation of multi-state receptors by continuous neurotransmitter signals at brain synapses. Uteshev VV, et al. **Biophys J** 1997 Mar; 72(3):1127–34
Some remarks on the experimental realization of a mind machine. Parisi J, et al. **Biosystems** 1997;42(2–3):207–8
A PET study on brain control of micturition in humans. Blok BF, et al. **Brain** 1997 Jan;120 (Pt 1):111–21
Channels of the corpus callosum: evidence from simple reaction times to lateralized flashes in the normal and the split brain [letter; comment] Demirci M. **Brain** 1996 Dec; 119 (Pt 6):2155–6. Comment on: Brain 1995 Jun;118 (Pt 3):779–88.
Brain activity during memory retrieval. The influence of imagery and semantic cueing. Fletcher PC, et al. **Brain** 1996 Oct;119 (Pt 5):1587–96
Collaboration between the hemispheres of a callosotomy patient. Emerging right hemisphere speech and the left hemisphere interpreter. Gazzaniga MS, et al. **Brain** 1996 Aug;119 (Pt 4):1255–62
Paradoxical functional facilitation in brain-behaviour research. A critical review [see comments] Kapur N. **Brain** 1996 Oct;119 (Pt 5):1775–90 (156 ref.). Comment in: Brain 1997 Jul;120 (Pt 7):1261–4.
Functional localization of the system for visuospatial attention using positron emission tomography. Nobre AC, et al. **Brain** 1997 Mar;120 (Pt 3):515–33
The structural components of music perception. A functional anatomical study. Platel H, et al. **Brain** 1997 Feb;120 (Pt 2):229–43
Regional brain activity during working memory tasks. Salmon E, et al. **Brain** 1996 Oct;119 (Pt 5):1617–25
The influence of stimulus location on the brain activation pattern in detection and orientation discrimination. A PET study of visual attention. Vandenberghe R, et al. **Brain** 1996 Aug;119 (Pt 4):1263–76
Does bigger mean better? Evolutionary determinants of brain size and structure. Aboitiz F. **Brain Behav Evol** 1996; 47(5):225–45 (144 ref.)
Effect of social rank on brain monoaminergic activity in a cichlid fish. Winberg S, et al. **Brain Behav Evol** 1997; 49(4):230–6
Second messenger systems in the regulation of cytokines and adhesion molecules in the central nervous system. Benveniste EN, et al. **Brain Behav Immun** 1995 Dec; 9(4):304–14 (79 ref.)
Hemispheric differences in global versus local processing: still unclear. Boles DB, et al. **Brain Cogn** 1996 Mar; 30(2):232–43
Dissociation between categorical and coordinate spatial computations: modulation by cerebral hemispheres, task properties, mode of response, and age. Bruyer R, et al. **Brain Cogn** 1997 Apr;33(3):245–77
Varieties of interhemispheric inhibition, or how to keep a good hemisphere down. Chiarello C, et al. **Brain Cogn** 1996 Feb;30(1):81–108
Divergent thinking styles of the hemispheres: how syllogisms are solved during transitory hemisphere suppression. Deglin VL, et al. **Brain Cogn** 1996 Aug;31(3):285–307
Life span changes in electrophysiological measures of inhibition. Dustman RE, et al. **Brain Cogn** 1996 Feb; 30(1):109–26 (70 ref.)
Qualitative hemispheric differences for processing trigrams. Kim H. **Brain Cogn** 1996 Mar;30(2):205–14
Bergson's "Matter and Memory" and modern selectionist theories of memory. McNamara P. **Brain Cogn** 1996 Mar; 30(2):215–31
Hemispheric processing of categorical and coordinate spatial relations in vision and visual imagery. Michimata C. **Brain Cogn** 1997 Apr;33(3):370–87
The effects of hemispheric asymmetries and depression on the perception of emotion. Moretti MM, et al. **Brain Cogn** 1996 Oct;32(1):67–82
Event-related brain potentials during identification of tachistoscopically presented pictures. Pietrowsky R, et al. **Brain Cogn** 1996 Dec;32(3):416–28
Asymmetrical hemispheric activation and emotion: the effects of unilateral forced nostril breathing. Schiff BB, et al. **Brain Cogn** 1995 Dec;29(3):217–31
The effects of procedural variations on lateralized Stroop effects. Weekes NY, et al. **Brain Cogn** 1996 Aug; 31(3):308–30
Functional brain reorganization in children. Chugani HT, et al. **Brain Dev** 1996 Sep–Oct;18(5):347–56 (121 ref.)
The effects of right-hemisphere brain damage on patients' use of terms of personal reference. Brownell H, et al. **Brain Lang** 1997 Mar;57(1):60–79
Mental rotation and the right hemisphere. Corballis MC. **Brain Lang** 1997 Mar;57(1):100–21 (104 ref.)
Picture confrontation oral naming: performance differences between aphasics and normals. Deloche G, et al. **Brain Lang** 1996 Apr;53(1):105–20
Script as a priming stimulus for lexical decisions with visual hemifield stimulation. Faust M, et al. **Brain Lang** 1997 May; 57(3):423–37
Cerebral mechanisms for suppression of inappropriate information during sentence comprehension [published erratum appears in Brain Lang 1997 Jan;56(1):159] Faust ME, et al. **Brain Lang** 1996 May;53(2):234–59
Hemispheric independence in word recognition: evidence from unilateral and bilateral presentations. Iacoboni M, et al. **Brain Lang** 1996 Apr;53(1):121–40
Microstates in language-related brain potential maps show noun-verb differences. Koenig T, et al. **Brain Lang** 1996 May;53(2):169–82
Modularity of language reconsidered. Levy Y. **Brain Lang** 1996 Nov;55(2):240–63 (63 ref.)
Cerebral lateralization in random letter task in the visual modality: a transcranial Doppler study. Njemanze PC. **Brain Lang** 1996 Jun;53(3):315–25
Activation without selection: parallel right hemisphere roles in language and intentional movement? Richards L, et al. **Brain Lang** 1997 Mar;57(1):151–78 (140 ref.)
Rags to riches: our increasing appreciation of cognitive and communicative abilities of the human right cerebral hemisphere. Van Lancker D. **Brain Lang** 1997 Mar; 57(1):1–11 (136 ref.)
Behavioral and neurochemical alterations caused by diet restriction--the effect of tyrosine administration in mice. Avraham Y, et al. **Brain Res** 1996 Sep 2;732(1–2):133–44
N(G)-nitro-L-arginine reverses L-arginine induced changes in morphine antinociception and distribution of morphine in brain regions and spinal cord of the mouse. Bhargava HN, et al. **Brain Res** 1997 Feb 28;749(2):351–3
Inhibition of sexual behaviour and the luteinizing hormone surge by intracerebral progesterone implants in the female sheep. Blache D, et al. **Brain Res** 1996 Nov 25; 741(1–2):117–22
Depressant effects on inspiratory and expiratory activity produced by chemical activation of Bötzinger complex neurons in the rabbit. Bongianni F, et al. **Brain Res** 1997 Feb 21;749(1):1–9
Effects of age and sociosexual experience on the morphology and metabolic capacity of brain nuclei in the leopard gecko (Eublepharis macularius), a lizard with temperature-dependent sex determination. Crews D, et al. **Brain Res** 1997 May 30;758(1–2):169–79
Intraseptal injection of the cholinergic immunotoxin 192-IgG saporin fails to disrupt latent inhibition in a conditioned taste aversion paradigm. Dougherty KD, et al. **Brain Res** 1996 Oct 14;736(1–2):260–9
Neuromagnetic study of movement-related changes in rhythmic brain activity. Feige B, et al. **Brain Res** 1996 Sep 23;734(1–2):252–60
Effect of gonadotropin releasing hormone on thermoregulatory vasomotor activity in ovariectomized female rats. Hosono T, et al. **Brain Res** 1997 Apr 18; 754(1–2):88–94
Changes in movement-related brain activity during transient deafferentation: a neuromagnetic study. Kristeva-Feige R, et al. **Brain Res** 1996 Apr 1;714(1–2):201–8
Increased regional brain concentrations of ceruloplasmin in neurodegenerative disorders. Loeffler DA, et al. **Brain Res** 1996 Nov 4;738(2):265–74
Antinociception induced by opioid or 5-HT agonists microinjected into the anterior pretectal nucleus of the rat. Mamede Rosa ML, et al. **Brain Res** 1997 May 16; 757(1):133–8
Cortical spreading depression recorded from the human brain using a multiparametric monitoring system. Mayevsky A, et al. **Brain Res** 1996 Nov 18;740(1–2):268–74
Human central nervous system myelin inhibits neurite outgrowth. Ng WP, et al. **Brain Res** 1996 May 13; 720(1–2):17–24
Brain pertussis toxin-sensitive G proteins are involved in the flavoxate hydrochloride-induced suppression of the micturition reflex in rats. Oka M, et al. **Brain Res** 1996 Jul 15;727(1–2):91–8
Enhancement of central pressor effect of AVP in SHR and WKY rats by intracranial N(G)-nitro-L-arginine. Paczwa P, et al. **Brain Res** 1997 Feb 14;748(1–2):51–61
Brainstem mediates diazepam enhancement of palatability and feeding: microinjections into fourth ventricle versus lateral ventricle. Peciña S, et al. **Brain Res** 1996 Jul 15; 727(1–2):22–30
Intracerebroventricular injection of choline increases plasma oxytocin levels in conscious rats. Savci V, et al. **Brain Res** 1996 Feb 12;709(1):97–102
Seasonal plasticity in the song nuclei of wild rufous-sided towhees. Smith GT. **Brain Res** 1996 Sep 23;734(1–2):79–85
Discharge patterns of dorsal and ventral respiratory group neurons during spontaneous augmented breaths observed in pentobarbital anesthetized rats. Takeda M, et al. **Brain Res** 1997 Feb 21;749(1):95–100
Single-channel recording in brain slices reveals heterogeneity of nicotinic receptors on individual neurons within the chick lateral spiriform nucleus. Weaver WR, et al. **Brain Res** 1996 Jun 24;725(1):95–105
The avian somatosensory system: the pathway from wing to Wulst in a passerine (Chloris chloris). Wild JM. **Brain Res** 1997 Jun 6;759(1):122–34
A three-dimensional multimodality brain map of the nemestrina monkey. Cannestra AF, et al. **Brain Res Bull** 1997;43(2):141–8
Calbindin immunoreactivity delineates the circadian visual centers of the brain of the common marmoset (Callithrix jacchus). Costa MS, et al. **Brain Res Bull** 1997;43(4):369–73
Activity wheel running reduces escape latency and alters brain monoamine levels after footshock. Dishman RK, et al. **Brain Res Bull** 1997;42(5):399–406
Plasticity of astrocytes derived from aged mouse cerebral hemispheres: changes with cell passage and immortalization. Grove J, et al. **Brain Res Bull** 1996; 39(4):211–7
Dopaminergic and glutamatergic mechanisms mediate the induction of FOS-like protein by cocaethylene. Horowitz

JM, et al. **Brain Res Bull** 1997;42(5):393–8
N400-like potentials elicited by faces and knowledge inhibition. Debruille JB, et al.
Brain Res Cogn Brain Res 1996 Sep;4(2):133–44
Do imagined and executed actions share the same neural substrate? Decety J. **Brain Res Cogn Brain Res** 1996 Mar; 3(2):87–93 (57 ref.)
Planning, preparation, execution, and imagery of volitional action. Deecke L. **Brain Res Cogn Brain Res** 1996 Mar; 3(2):59–64 (51 ref.)
Oscillatory neuromagnetic activity induced by language and non-language stimuli. Eulitz C, et al.
Brain Res Cogn Brain Res 1996 Sep;4(2):121–32
Brain events related to normal and moderately scrambled faces. George N, et al. **Brain Res Cogn Brain Res** 1996 Sep;4(2):65–76
The neural correlates of intentional learning of verbal materials: a PET study in humans. Kapur S, et al.
Brain Res Cogn Brain Res 1996 Nov;4(4):243–9
The impact of a decision process upon scalp recorded premovement potential. Kukleta M, et al.
Brain Res Cogn Brain Res 1996 Oct;4(3):225–9
Electric and magnetic fields of the brain accompanying internal simulation of movement. Lang W, et al.
Brain Res Cogn Brain Res 1996 Mar;3(2):125–9
EEG aspects of mentally playing an instrument. Petsche H, et al. **Brain Res Cogn Brain Res** 1996 Mar;3(2):115–23
Functional MR imaging of semantic information processing and learning-related effects using psychometrically controlled stimulation paradigms. Spitzer M, et al.
Brain Res Cogn Brain Res 1996 Oct;4(3):149–61
In vivo and in vitro expression of rat galactose-1-phosphate uridyltransferase (GALT) in the developing central and peripheral nervous system. Daude N, et al.
Brain Res Dev Brain Res 1996 Jul 20;94(2):190–6
Developmental changes of RNA editing of glutamate receptor subunits GluR5 and GluR6: in vivo versus in vitro. Paschen W, et al. **Brain Res Dev Brain Res** 1997 Feb 20; 98(2):271–80
Two synaptotagmin genes, Syt1 and Syt4, are differentially regulated in adult brain and during postnatal development following kainic acid-induced seizures. Tocco G, et al.
Brain Res Mol Brain Res 1996 Sep 1;40(2):229–39
Temporal-spatial pattern of c-Fos expression in the rat brain in response to indispensable amino acid deficiency. II. The learned taste aversion. Wang Y, et al.
Brain Res Mol Brain Res 1996 Aug;40(1):35–41
Mapping event-related brain potential microstates to sentence endings. Brandeis D, et al. **Brain Topogr** 1995 Winter;8(2):145–59
Comparison of realistically shaped boundary-element and spherical head models in source localization of early somatosensory evoked potentials. Buchner H, et al.
Brain Topogr 1995 Winter;8(2):137–43
Mapping EEG-potentials on the surface of the brain: a strategy for uncovering cortical sources. Junghöfer M, et al. **Brain Topogr** 1997 Spring;9(3):203–17
Precision of dipole localization in a spherical volume conductor: a comparison of referential EEG, magnetoencephalography and scalp current density methods. Murro AM, et al. **Brain Topogr** 1995 Winter; 8(2):119–25
The influence of skull-conductivity misspecification on inverse source localization in realistically shaped finite element head models. Pohlmeier R, et al. **Brain Topogr** 1997 Spring;9(3):157–62
EEG power mapping, dipole source and coherence analysis in Chernobyl patients. Zhavoronkova LA, et al.
Brain Topogr 1995 Winter;8(2):161–8
Recruitment of brain macrophages: roles of cytokines and extracellular matrix proteins produced by glial or neuronal cells. Mallat M, et al. **Braz J Med Biol Res** 1996 Sep; 29(9):1173–7
Mild hypothermia therapy after cardiopulmonary resuscitation may improve cerebral resuscitation [letter] Iwama H, et al. **Can J Anaesth** 1997 Jun;44(6):677
Functional MRI localization of language in a 9-year-old child. Benson RR, et al. **Can J Neurol Sci** 1996 Aug; 23(3):213–9
Visuomotor modules in the vertebrate brain. Goodale MA. **Can J Physiol Pharmacol** 1996 Apr;74(4):390–400 (37 ref.)
Study of the post-natal effects of chemopreventive agents on ethylnitrosourea-induced transplacental carcinogenesis in rats. II. Influence of low-molecular-weight polypeptide factors from the thymus, pineal gland, bone marrow, anterior hypothalamus, brain cortex and brain white substance. Alexandrov VA, et al. **Carcinogenesis** 1996 Sep; 17(9):1931–4
Circadian rhythm in the function of central 5-HT1A receptors is endogenous in nature. Lu JQ, et al.
Cell Mol Life Sci 1997 Mar;53(3):224–6
Biochemical and physiological evidence that carnosine is an endogenous neuroprotector against free radicals. Boldyrev AA, et al. **Cell Mol Neurobiol** 1997 Apr;17(2):259–71
The somatostatin system of the brain and hibernation in the European hamster (Cricetus cricetus). Nürnberger F, et al. **Cell Tissue Res** 1997 Jun;288(3):441–7
Functional topography: multidimensional scaling and functional connectivity in the brain. Friston KJ, et al.
Cereb Cortex 1996 Mar-Apr;6(2):156–64
Demonstrating the implicit processing of visually presented words and pseudowords. Price CJ, et al. **Cereb Cortex** 1996 Jan-Feb;6(1):62–70
Changes in endocrine circadian rhythms as markers of physiological and pathological brain aging. Magri F, et al.
Chronobiol Int 1997 Jul;14(4):385–96
Emx and Otx gene expression in the developing mouse brain. Boncinelli E, et al. **Ciba Found Symp** 1995;193:100–16; discussion 117–26 (17 ref.)
Blockade of brain 'ouabain' prevents the impairment of baroreflexes in rats after myocardial infarction. Huang BS, et al. **Circulation** 1997 Sep 2;96(5):1654–9
Dipole theory and electroencephalography. Niedermeyer E.
Clin Electroencephalogr 1996 Jul;27(3):121–31 (78 ref.)
Neuroanatomy of language processing studied with functional MRI. Binder JR. **Clin Neurosci** 1997;4(2):87–94 (112 ref.)
PET activation and language. Chertkow H, et al.
Clin Neurosci 1997;4(2):78–86 (69 ref.)
New instrumentation for in vivo determinations of brain function. Ray CD. **Clin Neurosurg** 1971;18:121–54
Aspects of brain localization in late XIXth century Germany. Hagner M. **Clio Med** 1995;33:73–88
Nicotinic receptors and brain plasticity. Changeux JP, et al.
Cold Spring Harb Symp Quant Biol 1996;61:343–62 (103 ref.)
Neural mechanisms of declarative memory. Eichenbaum H, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:197–206 (45 ref.)
Ethanol alters brain phospholipid levels which correlate with altered brain morphology. Miller RR Jr, et al.
Comp Biochem Physiol B Biochem Mol Biol 1997 Apr; 116(4):407–17
An automated system for analysis and interpretation of epileptiform activity in the EEG. Benlamri R, et al.
Comput Biol Med 1997 Mar;27(2):129–39
AFNI: software for analysis and visualization of functional magnetic resonance neuroimages. Cox RW.
Comput Biomed Res 1996 Jun;29(3):162–73
Magnetic resonance imaging methods for study of human brain function and their application at high magnetic field. Jezzard P, et al. **Comput Med Imaging Graph** 1996 Nov-Dec;20(6):467–81
Brain mechanisms of cognitive skills. Posner MI, et al.
Conscious Cogn 1997 Jun-Sep;6(2-3):267–90 (90 ref.)
The effect of auditory experience on hemispheric asymmetry in a post-lingually deaf child: a case study. Szelag E.
Cortex 1996 Dec;32(4):647–61
Bioelectrical impedance techniques in medicine. Part III: Impedance imaging. Third section: medical applications. Morucci JP, et al. **Crit Rev Biomed Eng** 1996; 24(4-6):655–77 (108 ref.)
A functional neuroanatomy of anxiety and fear: implications for the pathophysiology and treatment of anxiety disorders. Charney DS, et al. **Crit Rev Neurobiol** 1996;10(3-4):419–46 (237 ref.)
Molecular aspects of cannabinoid receptors. Matsuda LA.
Crit Rev Neurobiol 1997;11(2-3):143–66 (154 ref.)
Nootropics: preclinical results in the light of clinical effects; comparison with tacrine. Mondadori C.
Crit Rev Neurobiol 1996;10(3-4):357–70 (85 ref.)
Neurotrophic factors in brain synaptic plasticity. Nawa H, et al. **Crit Rev Neurobiol** 1997;11(1):91–100 (86 ref.)
Dopamine D2 receptors in signal transduction and behavior. Picetti R, et al. **Crit Rev Neurobiol** 1997;11(2-3):121–42 (130 ref.)
The neuropsychology of spatial cognition in the rat. Poucet B, et al. **Crit Rev Neurobiol** 1997;11(2-3):101–20 (187 ref.)
The frontal cortex-basal ganglia system in primates. Wise SP, et al. **Crit Rev Neurobiol** 1996;10(3-4):317–56 (443 ref.)
Nongenomic actions of estrogen in the brain: physiological significance and cellular mechanisms. Wong M, et al.
Crit Rev Neurobiol 1996;10(2):189–203 (114 ref.)
CD4-independent association between HIV-1 gp120 and CXCR4: functional chemokine receptors are expressed in human neurons. Hesselgesser J, et al. **Curr Biol** 1997 Feb 1;7(2):112–21
Differences in perceived shape from shading correlate with activity in early visual areas. Humphrey GK, et al.
Curr Biol 1997 Feb 1;7(2):144–7
Object recognition: the man who mistook his dog for a cat. Humphreys GW. **Curr Biol** 1996 Jul 1;6(7):821–4 (20 ref.)
Signal selection by cortical feedback. King AJ. **Curr Biol** 1997 Feb 1;7(2):R85–8 (21 ref.)
Bird song: of tone and tempo in the telencephalon. Mooney R, et al. **Curr Biol** 1997 May 1;7(5):R289–91 (10 ref.)
Neural coding: The enigma of the brain. Stevens CF, et al.
Curr Biol 1995 Dec 1;5(12):1370–1 (10 ref.)
Cortical development: a role for spontaneous activity? Thompson I. **Curr Biol** 1997 May 1;7(5):R324–6 (25 ref.)
Calcium regulation of neurotransmitter release: reliably unreliable? Goda Y, et al. **Curr Opin Cell Biol** 1997 Aug; 9(4):513–8 (40 ref.)
Neuronal progenitors as tools for cell replacement in the nervous system. Brüstle O, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):688–95 (81 ref.)
Modulation of memory storage. Cahill L, et al.
Curr Opin Neurobiol 1996 Apr;6(2):237–42 (67 ref.)
Ischemia-induced neuronal apoptosis. Choi DW.
Curr Opin Neurobiol 1996 Oct;6(5):667–72 (55 ref.)
Competitive brain activity in visual attention. Duncan J, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):255–61 (76 ref.)
Saturation of postsynaptic receptors at central synapses? Frerking M, et al. **Curr Opin Neurobiol** 1996 Jun; 6(3):395–403 (66 ref.)
Genomic imprinting in the brain. Keverne EB.
Curr Opin Neurobiol 1997 Aug;7(4):463–8 (44 ref.)
Brain representation of object-centered space. Olson CR, et al. **Curr Opin Neurobiol** 1996 Apr;6(2):165–70 (40 ref.)
Cell adhesion, cell junctions and the blood-brain barrier. Staddon JM, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):622–7 (51 ref.)
The binding problem. Treisman A. **Curr Opin Neurobiol** 1996 Apr;6(2):171–8 (104 ref.)
The anatomical localization of saccades using functional imaging studies and transcranial magnetic stimulation. Carter N, et al. **Curr Opin Neurol** 1997 Feb;10(1):10–7 (47 ref.)
Brain and language: what a difference a decade makes [editorial] Damasio AR. **Curr Opin Neurol** 1997 Jun; 10(3):177–8
Noninvasive brain monitoring with near infrared spectroscopy in newborn infants. Skov L.
Dan Med Bull 1996 Jun;43(3):277–84 (100 ref.)
Assessment of general movements: towards a better understanding of a sensitive method to evaluate brain function in young infants. Hadders-Algra M, et al.
Dev Med Child Neurol 1997 Feb;39(2):88–98
Sexual differentiation of the brain in songbirds. Arnold AP, et al. **Dev Neurosci** 1996;18(1-2):124–36 (88 ref.)
Juvenile hormone, behavioral maturation, and brain structure in the honey bee. Fahrbach SE, et al. **Dev Neurosci** 1996; 18(1-2):102–14 (121 ref.)
Progressive remodeling of the oligodendrocyte process arbor during myelinogenesis. Hardy RJ, et al. **Dev Neurosci** 1996; 18(4):243–54
Signal transduction processes in the developing brain: perturbations of G protein alpha-subunit abundances by perinatal hypothyroidism. Leung FC, et al.
Dev Neurosci 1996;18(3):153–61
Neural correlates of infants' visual responsiveness to facial expressions of emotion. Nelson CA, et al.
Dev Psychobiol 1996 Nov;29(7):577–95
Infant feeding behavior: development in patterns and motivation. Paul K, et al. **Dev Psychobiol** 1996 Nov; 29(7):563–76
IDDM, counterregulation, and the brain [editorial; comment] McCall AL. **Diabetes Care** 1997 Aug;20(8):1228–30. Comment on: Diabetes Care 1997 Aug;20(8):1293–8.
Brain-Gut Interactions in Normal and Disordered States. Island of Brac, Supetar, Croatia, September 6–8, 1997. Abstracts. **Dig Dis Sci** 1997 Aug;42(8):1811–20
Construction and characterization of human brain cDNA libraries suitable for analysis of cDNA clones encoding relatively large proteins. Ohara O, et al. **DNA Res** 1997 Feb 28;4(1):53–9
Physiological plasticity in the auditory system and its possible relevance to hearing aid use, deprivation effects, and acclimatization. Willott JF. **Ear Hear** 1996 Jun;17(3 Suppl):66S–77S
Toward a dynamic topographic components model. Achim A, et al. **Electroencephalogr Clin Neurophysiol** 1997 Sep; 103(3):381–5
Multichannel auditory event-related brain potentials: effects of normal aging on the scalp distribution of N1, P2, N2 and P300 latencies and amplitudes. Anderer P, et al.
Electroencephalogr Clin Neurophysiol 1996 Nov; 99(5):458–72
High resolution EEG: a new model-dependent spatial deblurring method using a realistically-shaped MR-constructed subject's head model. Babiloni F, et al.
Electroencephalogr Clin Neurophysiol 1997 Feb; 102(2):69–80
Brain potentials with old/new distinction of non-words and geometric figures. Beisteiner R, et al.
Electroencephalogr Clin Neurophysiol 1996 Dec; 99(6):517–26
Stability of EEG inter- and intrahemispheric correlation in women. Corsi-Cabrera M, et al.
Electroencephalogr Clin Neurophysiol 1997 Mar; 102(3):248–55
Chaotic behavior of EEG slow-wave activity during sleep. Ferri R, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec;99(6):539–43
Testing topographic differences between event related brain potentials by using non-parametric combinations of permutation tests. Galán L, et al.
Electroencephalogr Clin Neurophysiol 1997 Mar; 102(3):240–7
Responses of human single motor units to transcranial magnetic stimulation. Garland SJ, et al.
Electroencephalogr Clin Neurophysiol 1997 Apr; 105(2):94–101
Temporal relationships between pulsatile cortisol secretion and electroencephalographic activity during sleep in man. Gronfier C, et al. **Electroencephalogr Clin Neurophysiol** 1997 Sep;103(3):405–8
Extensible biosignal (EBS) file format: simple method for EEG data exchange. Hellmann G, et al.
Electroencephalogr Clin Neurophysiol 1996 Nov; 99(5):426–31
Ordinary least squares dipole localization is influenced by the reference. Huizenga HM, et al.
Electroencephalogr Clin Neurophysiol 1996 Dec;99(6):562–7
Neuromagnetic localization of the late component of the contingent negative variation. Hultin L, et al.

Electroencephalogr Clin Neurophysiol 1996 Jun; 98(6):435–48

Topographic analysis of coherence and propagation of EEG activity during sleep and wakefulness. Kamiński M, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):216–27

The effect of current direction induced by transcranial magnetic stimulation on the corticospinal excitability in human brain. Kaneko K, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec; 101(6):478–82

The effects of cortical stimulation, anesthesia and recording site on somatosensory evoked potentials in the rat. Koyanagi I, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec;101(6):534–42

Extracranial localization of intracranial interictal epileptiform activity using LORETA (low resolution electromagnetic tomography). Lantz G, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 102(5):414–22

The resolution-field concept. Lütkenhöner B, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 102(4):326–34

High-frequency cortical responses: do they not exist if they are small? [letter] Lutzenberger W, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan;102(1):64–6

Spatial filter selection for EEG-based communication. McFarland DJ, et al. **Electroencephalogr Clin Neurophysiol** 1997 Sep; 103(3):386–94

Crossed and direct effects of digital nerves stimulation on motor evoked potential: a study with magnetic brain stimulation. Manganotti P, et al. **Electroencephalogr Clin Neurophysiol** 1997 Aug; 105(4):280–9

Activation of a distributed somatosensory cortical network in the human brain. A dipole modelling study of magnetic fields evoked by median nerve stimulation. Part I: Location and activation timing of SEF sources. Mauguière F, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jul;104(4):281–9

Activation of a distributed somatosensory cortical network in the human brain: a dipole modelling study of magnetic fields evoked by median nerve stimulation. Part II: Effects of stimulus rate, attention and stimulus detection. Mauguière F, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jul;104(4):290–5

The Utah intracortical Electrode Array: a recording structure for potential brain-computer interfaces. Maynard EM, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):228–39

Effects of transcranial electrical and magnetic stimulation on reciprocal inhibition in the human arm. Mercuri B, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 105(2):87–93

Movement-related slow cortical magnetic fields and changes of spontaneous MEG- and EEG-brain rhythms. Nagamine T, et al. **Electroencephalogr Clin Neurophysiol** 1996 Sep; 99(3):274–86

Possible overlapping potentials of the auditory P50 in humans: factor analysis of middle latency auditory evoked potentials. Ninomiya H, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan;104(1):23–30

Distributions and sources of magnetoencephalographic K-complexes. Numminen J, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec; 99(6):544–55

Polysomnographic quantification of bioelectrical maturation in preterm and fullterm newborns at matched conceptional ages. Nunes ML, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):186–91

Implications of electrolyte dispersion for high resolution EEG methods. Pellouchoud E, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):261–3

Evaluation of MRI-MEG/EEG co-registration strategies using Monte Carlo simulation. Singh KD, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb;102(2):81–5

Differential localization of brain systems subserving memory for names and faces in normal subjects with event-related potentials. Sommer W, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):192–9

Sequential changes of auditory processing during target detection: motor responding versus mental counting. Starr A, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jun; 105(3):201–12

The pathophysiology of giant SEPs in cortical myoclonus: a scalp topography and dipolar source modelling study. Valeriani M, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar;104(2):122–31

Genetic architecture of EEG power spectra in early life. Van Baal GC, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jun; 98(6):502–14

Extraction of ocular artefacts from EEG using independent component analysis. Vigário RN. **Electroencephalogr Clin Neurophysiol** 1997 Sep; 103(3):395–404

3D localization of surface 10-20 EEG electrodes on high resolution anatomical MR images. Yoo SS, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 102(4):335–9

A systematic evaluation of the spherical model accuracy in EEG dipole localization. Yvert B, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 102(5):452–9

Neural network mechanisms of oscillatory brain states: characterization using simultaneous multi-single neuron recordings. Chapin JK, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;45:113–22

Functional organization of the primary sensory cortex in humans: a neuromagnetic study. Kristeva-Feige R, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:215–20

Neuromagnetic study of movement-related somatosensory gating. Kristeva-Feige R, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:337–42

Regulation of apoptosis and cell cycle arrest by Zac1, a novel zinc finger protein expressed in the pituitary gland and the brain. Spengler D, et al. **EMBO J** 1997 May 15; 16(10):2814–25

Extrapituitary prolactin: distribution, regulation, functions, and clinical aspects. Ben-Jonathan N, et al. **Endocr Rev** 1996 Dec;17(6):639–69 (368 ref.)

Increased pancreatic islet blood flow in 48-hour glucose-infused rats: involvement of central and autonomic nervous systems. Atef N, et al. **Endocrinology** 1997 May; 138(5):1836–40

Insulin-like growth factor I of peripheral origin acts centrally to accelerate the initiation of female puberty. Hiney JK, et al. **Endocrinology** 1996 Sep;137(9):3717–28

Stimulatory effect of central oxytocin on tuberoinfundibular dopaminergic neuron activity and inhibition on prolactin secretion: neurochemical and electrophysiological studies. Yuan ZF, et al. **Endocrinology** 1996 Oct;137(10):4120–5

Developmental and seizure-related regional differences in immediate early gene expression and GABAergic abnormalities in the brain of EL mice. Murashima YL, et al. **Epilepsy Res** 1996 Dec;26(1):3–14

Pore properties of rat brain II sodium channels mutated in the selectivity filter domain. Schlief T, et al. **Eur Biophys J** 1996;25(2):75–91

Symposium on sensorimotor circuits controlling behavioral functions in birds. In honour of Prof. Dr. Jacob L. Duddeldam. **Eur J Morphol** 1997 Oct;35(4):209–325

Differential oscillatory properties of cholinergic and noncholinergic nucleus basalis neurons in guinea pig brain slice. Alonso A, et al. **Eur J Neurosci** 1996 Jan;8(1):169–82

Magnetoencephalography may help to improve functional MRI brain mapping. Beisteiner R, et al. **Eur J Neurosci** 1997 May;9(5):1072–7

Functional demarcation of a border between areas V6 and V6A in the superior parietal gyrus of the macaque monkey. Galletti C, et al. **Eur J Neurosci** 1996 Jan;8(1):30–52

Fluorescent dye prelabelled microglial cells migrate into organotypic hippocampal slice cultures and ramify. Hailer NP, et al. **Eur J Neurosci** 1997 Apr;9(4):863–6

C-fos expression during vocal mobbing in the new world monkey Saguinus fuscicollis. Jürgens U, et al. **Eur J Neurosci** 1996 Jan;8(1):2–10

Erythropoietin gene expression in human, monkey and murine brain. Marti HH, et al. **Eur J Neurosci** 1996 Apr; 8(4):666–76

Human brain activity related to orientation discrimination tasks. Orban GA, et al. **Eur J Neurosci** 1997 Feb; 9(2):246–59

The reinforcing properties of nicotine are associated with a specific patterning of c-fos expression in the rat brain. Pagliusi SR, et al. **Eur J Neurosci** 1996 Nov;8(11):2247–56

Modulation of cerebral blood flow in the human auditory cortex during speech: role of motor-to-sensory discharges. Paus T, et al. **Eur J Neurosci** 1996 Nov;8(11):2236–46

Brain rhythms of language: nouns versus verbs. Pulvermuller F, et al. **Eur J Neurosci** 1996 May;8(5):937–41

Assumptions and validations of statistical tests for functional neuroimaging [see comments] Roland PE, et al. **Eur J Neurosci** 1996 Nov;8(11):2232–5. Comment in: Eur J Neurosci 1996 Nov;8(11):2229–31.

Influence of interleukin-6 on neural activity and transcription of the gene encoding corticotrophin-releasing factor in the rat brain: an effect depending upon the route of administration. Vallières L, et al. **Eur J Neurosci** 1997 Jul; 9(7):1461–72

Analysis of the ion channel complement of the rat oligodendrocyte progenitor in a commonly studied in vitro preparation. Williamson AV, et al. **Eur J Neurosci** 1997 Apr;9(4):706–20

Motor depressant effects of systemically administered polyamines in mice: involvement of central NMDA receptors. Giménez-Llort L, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):231–8

The antinociceptive action of paracetamol is associated with changes in the serotonergic system in the rat brain. Pini LA, et al. **Eur J Pharmacol** 1996 Jul 11;308(1):31–40

Genomic responses to 5-HT1A or 5-HT2A/2C receptor activation is differentially regulated in four regions of rat brain. Tilakaratne N, et al. **Eur J Pharmacol** 1996 Jun 27; 307(2):211–7

Similar involvement of several brain areas in the antinociception of endogenous and exogenous opioids. Valverde O, et al. **Eur J Pharmacol** 1996 Sep 19; 312(1):15–25

Topography and dipole analysis of reafferent electrical brain activity following the Bereitschaftspotential. Bötzel K, et al. **Exp Brain Res** 1997 Apr;114(2):352–61

Anticipatory smooth eye movements and predictive pursuit after unilateral lesions in human brain. Braun DI, et al. **Exp Brain Res** 1996 Jun;110(1):111–6

Haptic localization and the internal representation of the hand in space. Dassonville P. **Exp Brain Res** 1995;106(3):434–48

Brain activity related to serial cognitive performance resembles circuitry of higher order motor control. de Jong BM, et al. **Exp Brain Res** 1996 Apr;109(1):136–40

Neural control of fast-regular saccades and antisaccades: an investigation using positron emission tomography. Doricchi F, et al. **Exp Brain Res** 1997 Aug;116(1):50–62

The effects of disorientation on visual landmark control of head direction cell orientation. Dudchenko PA, et al. **Exp Brain Res** 1997 Jun;115(2):375–80

Localization of grasp representations in humans by positron emission tomography. 2. Observation compared with imagination. Grafton ST, et al. **Exp Brain Res** 1996 Nov; 112(1):103–11

A neuromagnetic study of movement-related somatosensory gating in the human brain. Kristeva-Feige R, et al. **Exp Brain Res** 1996;107(3):504–14

Supraspinal effects on the fractal correlation in human H-reflex. Nozaki D, et al. **Exp Brain Res** 1996 Nov; 112(1):112–8

Adaptational and learning processes during human split-belt locomotion: interaction between central mechanisms and afferent input. Prokop T, et al. **Exp Brain Res** 1995; 106(3):449–56

An audio-visual convergence area in the human brain. Regan MP, et al. **Exp Brain Res** 1995;106(3):485–7

Sex differences in the developmental changes of GABAergic neurons in zebra finch song control nuclei. Sakaguchi H. **Exp Brain Res** 1996 Feb;108(1):62–8

The neuronal stress response: nuclear translocation of heat shock proteins as an indicator of hyperthermic stress. Manzerra P, et al. **Exp Cell Res** 1996 Nov 25;229(1):35–47

The influence of xenotransplant immunogenicity and immunosuppression on host MHC expression in the rat CNS. Czech KA, et al. **Exp Neurol** 1997 Sep;147(1):66–83

Age-related changes in gene expression in the rat brain revealed by differential display. Salehi M, et al. **Experientia** 1996 Sep 15;52(9):888–91

Cholesterol: a two-edged sword in brain aging. Joseph JA, et al. **Free Radic Biol Med** 1997;22(3):455–62

Experimental study of the discrimination of two signal sources in the brain by three-dimensional vector magnetic field measurement of a magnetoencephalogram. Muluaka M, et al. **Front Med Biol Eng** 1997;8(1):35–45

Electrophysiology of the circumventricular organs. Ferguson AV, et al. **Front Neuroendocrinol** 1996 Oct;17(4):440–75 (177 ref.)

Neuroendocrine asymmetry. Gerendai I, et al. **Front Neuroendocrinol** 1997 Jul;18(3):354–81 (154 ref.)

Steroid hormones and excitability in the mammalian brain. Joëls M. **Front Neuroendocrinol** 1997 Jan;18(1):2–48 (235 ref.)

The neuroendocrinology of thirst and salt appetite: visceral sensory signals and mechanisms of central integration. Johnson AK, et al. **Front Neuroendocrinol** 1997 Jul; 18(3):292–353 (369 ref.)

Novel perspectives on pituitary and brain angiotensinogen. Sernia C, et al. **Front Neuroendocrinol** 1997 Apr; 18(2):174–208 (179 ref.)

Identification of human brain loci processing esophageal sensation using positron emission tomography. Aziz Q, et al. **Gastroenterology** 1997 Jul;113(1):50–9

The magnitude of the central response to esophageal electrical stimulation is intensity dependent. Hollerbach S, et al. **Gastroenterology** 1997 Apr;112(4):1137–46

Central vagal activation increases mucus gel thickness and surface cell intracellular pH in rat stomach. Tanaka S, et al. **Gastroenterology** 1997 Feb;112(2):409–17

Neuropeptide Y in the dorsal vagal complex stimulates bicarbonate-dependent bile secretion in rats. Yoneda M, et al. **Gastroenterology** 1997 May;112(5):1673–80

Photoperiodic condition modulates the effects of testosterone on song control nuclei volumes in male European starlings. Bernard DJ, et al. **Gen Comp Endocrinol** 1997 Feb; 105(2):276–83

A2 adenosine receptors: their presence and neuromodulatory role in the central nervous system. Latini S, et al. **Gen Pharmacol** 1996 Sep;27(6):925–33 (110 ref.)

Cerebral activity during visual stimulation: a positron emission tomography and functional magnetic resonance imaging study. Schiefer U, et al. **Ger J Ophthalmol** 1996 Mar;5(2):109–17 (63 ref.)

Brain reserve and the clinical expression of Alzheimer's disease. Mortimer JA. **Geriatrics** 1997 Sep;52 Suppl 2:S50–3

Synaptic structural dynamics and aging. Bertoni-Freddari C, et al. **Gerontology** 1996;42(3):170–80 (51 ref.)

Expression of the APP gene family in brain cells, brain development and aging. Sandbrink R, et al. **Gerontology** 1997;43(1–2):119–31

Oligodendrocytes express gap junction proteins connexin32 and connexin45. Dermietzel R, et al. **Glia** 1997 Jun; 20(2):101–14

Characterization of the hypo-osmolarity-induced Ca2+ response in cultured rat astrocytes. Fischer R, et al. **Glia** 1997 May;20(1):51–8

Angiotensin II activates distinct signal transduction pathways in astrocytes isolated from neonatal rat brain. Tallant EA,

et al. **Glia** 1997 Apr;19(4):333–42

Rat brain oligodendrocytes do not interact selectively with axons expressing different calcium-binding proteins. Weruaga-Prieto E, et al. **Glia** 1996 Feb;16(2):117–28

Neurophysiology of converging synaptic inputs from the rat prefrontal cortex, amygdala, midline thalamus, and hippocampal formation onto single neurons of the caudate/putamen and nucleus accumbens. Finch DM. **Hippocampus** 1996;6(5):495–512

Cognitive maps beyond the hippocampus. Redish AD, et al. **Hippocampus** 1997;7(1):15–35 (182 ref.)

Evidence for extrahippocampal involvement in place learning and hippocampal involvement in path integration. Whishaw IQ, et al. **Hippocampus** 1996;6(5):513–24

Do sex differences in the brain explain sex differences in the hormonal induction of reproductive behavior? What 25 years of research on the Japanese quail tells us. Balthazart J, et al. **Horm Behav** 1996 Dec;30(4):627–61 (135 ref.)

Searching for sex differences in the vomeronasal pathway. Segovia S, et al. **Horm Behav** 1996 Dec;30(4):618–26

Role of NPY neurones in GH-dependent feedback signalling to the brain. Chan YY, et al. **Horm Res** 1996;45 Suppl 1:12–4 (10 ref.)

Blunted blood pressure response to central sympathoinhibition in normotensive blacks: increased importance of nonsympathetic factors in blood pressure maintenance in blacks. Lang CC, et al. **Hypertension** 1997 Aug;30(2 Pt 1):157–62

Role of cardiac output in ethanol-evoked attenuation of centrally mediated hypotension in conscious rats. El-Mas MM, et al. **Hypertension** 1997 Aug;30(2 Pt 1):288–94

Using nonlinear dynamic metric tools for characterizing brain structures. Blanco S, et al. **IEEE Eng Med Biol Mag** 1997 Jul-Aug;16(4):83–92

Imaging neural activity using MEG and EEG. Phillips JW, et al. **IEEE Eng Med Biol Mag** 1997 May-Jun;16(3):34–42

Extraction of 40 Hz EEG bursts for chaos analysis of brain function. Xiao D, et al. **IEEE Eng Med Biol Mag** 1997 Jul-Aug;16(4):27–32

Modeling and estimation of single evoked brain potential components. Lange DH, et al. **IEEE Trans Biomed Eng** 1997 Sep;44(9):791–9

MEG-based imaging of focal neuronal current sources. Phillips JW, et al. **IEEE Trans Med Imaging** 1997 Jun; 16(3):338–48

Expression of complement in the brain: role in health and disease. Morgan BP, et al. **Immunol Today** 1996 Oct; 17(10):461–6 (34 ref.)

Developing brain and breastfeeding. Banapurmath CR, et al. **Indian Pediatr** 1996 Jan;33(1):35–8 (33 ref.)

Olfactory social memory in rats is facilitated by histamine. Argyriou A, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S39–40

Relationships between left hemisphere predominance and disturbances of lipid metabolism in different ethnic groups. Nikolaeva EI, et al. **Int J Cardiol** 1995 Dec;52(3):207–11

11th Biennial meeting of the International Society for Developmental Neuroscience. Tampere, Finland, July 30–August 3, 1996. Abstract. **Int J Dev Neurosci** 1996;14 Suppl 1:51–111, i–vii

Plastic responses of neonatal 5-hydroxytryptamine1B receptors to 5,7-dihydroxytryptamine lesions mapped by quantitative autoradiography. Pranzatelli MR, et al. **Int J Dev Neurosci** 1996 Aug;14(5):621–9

Can quantum processes control synaptic emission? Beck F. **Int J Neural Syst** 1996 Sep;7(4):343–53 (24 ref.)

Impact of information compression on intellectual activities in the brain. Eriksson JT. **Int J Neural Syst** 1996 Sep; 7(4):543–50 (14 ref.)

Sex-related engagement of the hemispheres in visuospatial processing. Heider B. **Int J Neurosci** 1996 Nov; 88(1–2):83–95

Functional brain asymmetry, handedness and age characteristics of climacterium in women. Nikolova P, et al. **Int J Neurosci** 1996 Jul;86(1–2):143–9

Functional correlates of alphas panel discussion of the conference 'Alpha Processes in the Brain'. Başar E, et al. **Int J Psychophysiol** 1997 Jun;26(1–3):455–74

Alpha oscillations in brain functioning: an integrative theory. Başar E, et al. **Int J Psychophysiol** 1997 Jun;26(1–3):5–29 (120 ref.)

Gamma-band responses in the brain: a short review of psychophysiological correlates and functional significance. Başar-Eroglu C, et al. **Int J Psychophysiol** 1996 Nov; 24(1–2):101–12 (69 ref.)

Magnetoencephalographic evidence for common sources of long latency fields to rare target and rare novel visual stimuli. Basile LF, et al. **Int J Psychophysiol** 1997 Feb; 25(2):123–37

Intracerebral event-related potentials during memory workload. Beuzeron-Mangina JH. **Int J Psychophysiol** 1996 Apr-May;22(1–2):9–23

Brain macropotentials associated with distinct phases of voluntary sustained isometric contraction in man. Dimitrov B, et al. **Int J Psychophysiol** 1996 Apr-May;22(1–2):35–44

Is there a way from behavior to non-linear brain dynamics? On quantal periods in cognition and the place of alpha in brain resonances. Geissler HG. **Int J Psychophysiol** 1997 Jun;26(1–3):381–93 (31 ref.)

Prospective associations between lateralised brain function and immune status in HIV infection: analysis of EEG, cognition and mood over 30 months. Gruzelier J, et al. **Int J Psychophysiol** 1996 Oct;23(3):215–24

Electrophysiological analysis of the registration, storage and retrieval of information in delayed matching from samples. John ER, et al. **Int J Psychophysiol** 1996 Nov; 24(1–2):127–44

Memory processes, brain oscillations and EEG synchronization. Klimesch W. **Int J Psychophysiol** 1996 Nov;24(1–2):61–100 (138 ref.)

Direct electrical stimulation of specific human brain structures and bilateral electrodermal activity. Mangina CA, et al. **Int J Psychophysiol** 1996 Apr-May;22(1–2):1–8

Driven and synchronized brain activities in the alpha band: a neuromagnetic test for frequency responsiveness. Narici L. **Int J Psychophysiol** 1997 Jun;26(1–3):137–48

Alpha rhythms as physiological and abnormal phenomena. Niedermeyer E. **Int J Psychophysiol** 1997 Jun; 26(1–3):31–49 (84 ref.)

Approaches to verbal, visual and musical creativity by EEG coherence analysis. Petsche H. **Int J Psychophysiol** 1996 Nov;24(1–2):145–59

P300 and probability: comparison of oddball and single-stimulus paradigms. Polich J, et al. **Int J Psychophysiol** 1997 Feb;25(2):169–76

Slow brain potentials in a visual-spatial memory task: topographic distribution and inter-laboratory consistency. Rohrbaugh JW, et al. **Int J Psychophysiol** 1997 Feb; 25(2):111–22

An approach to single trial analysis of event-related potentials based on signal detection theory. Röschke J, et al. **Int J Psychophysiol** 1996 Jun-Jul;22(3):155–62

Working-memory load and dimensional complexity of the EEG. Sammer G. **Int J Psychophysiol** 1996 Nov; 24(1–2):173–82

Atmospheric electromagnetism: individual differences in brain electrical response to simulated sferics. Schienle A, et al. **Int J Psychophysiol** 1996 Feb-Mar;21(2–3):177–88

Topography of visually evoked brain activity during eye movements: lambda waves, saccadic suppression, and discrimination performance. Skrandies W, et al. **Int J Psychophysiol** 1997 Jul;27(1):15–27

Physiological and therapeutic effects of high frequency electrical pulses. Liss S, et al. **Integr Physiol Behav Sci** 1996 Apr-Jun;31(2):88–95

Using our brains [editorial] Wolf S. **Integr Physiol Behav Sci** 1996 Jul-Sep;31(3):195–201 (21 ref.)

Vth International Conference on Hormones, Brain and Behavior. Torino, Italy, August 25–30, 1996. Abstracts. **Ital J Anat Embryol** 1996 Aug;101 Suppl 1:1–220

Mind, brain, machine: language. Forrest DV. **J Am Acad Psychoanal** 1996 Fall;24(3):409–30 (51 ref.)

Brain. Chambers DW. **J Am Coll Dent** 1996 Spring;63(1):45–7

Physiologic responses to sensory stimulation by food: nutritional implications. Mattes RD. **J Am Diet Assoc** 1997 Apr;97(4):406–13 (85 ref.)

Delirium, dementia and brain reserve [letter; comment] Reyes-Ortiz CA. **J Am Geriatr Soc** 1997 Jun;45(6):778–9 . Comment on: J Am Geriatr Soc 1996 Aug;44(8):1001–2.

Comparative hemodynamic effects of periodic obstructive and simulated central apneas in sedated pigs. Chen L, et al. **J Appl Physiol** 1997 Aug;83(2):485–94

Mechanisms regulating regional cerebral activation during dynamic handgrip in humans. Williamson JW, et al. **J Appl Physiol** 1996 Nov;81(5):1884–90

Electrophysiological effects of ATP on brain neurones. Illes P, et al. **J Auton Pharmacol** 1996 Dec;16(6):407–11 (51 ref.)

Inhibition of phospholipase D by a protein factor from bovine brain cytosol. Partial purification and characterization of the inhibition mechanism. Kim JH, et al. **J Biol Chem** 1996 Oct 11;271(41):25213–9

Interaction between central programs and afferent input in the control of posture and locomotion. Dietz V. **J Biomech** 1996 Jul;29(7):841–4

Effects of perfusion on the mechanical behavior of the brain-exposed to hypergravity. Guillaume A, et al. **J Biomech** 1997 Apr;30(4):383–9

Topical ice slurry prevents brain rewarming during deep hypothermic circulatory arrest in newborn sheep. Brooker RF, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):591–4

Noninvasive measurements of human brain temperature using volume-localized proton magnetic resonance spectroscopy. Corbett R, et al. **J Cereb Blood Flow Metab** 1997 Apr; 17(4):363–9

Thrombin stimulates activation of the cerebral 5-lipoxygenase pathway during blood-brain cell contact. Winking M, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):737–45

Electroencephalographic evaluation of children without neuropsychiatric disturbances but with poor school performance. Micheloyannis S, et al. **J Child Neurol** 1996 Jul;11(4):309–12

Cardiac artifacts in magnetoencephalogram. Jousmäki V, et al. **J Clin Neurophysiol** 1996 Mar;13(2):172–6

Alpha frequency, reaction time, and the speed of processing information. Klimesch W, et al. **J Clin Neurophysiol** 1996 Nov;13(6):511–8

Physiology of the circadian system in animals and humans. Murphy PJ, et al. **J Clin Neurophysiol** 1996 Jan;13(1):2–16 (110 ref.)

Cortical excitability and response variability of transcranial magnetic stimulation. van der Kamp W, et al. **J Clin Neurophysiol** 1996 Mar;13(2):164–71

Generation of field potentials in the brain. Speckmann EJ. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):8S–10S (10 ref.)

Test-retest reliability of three aphasia tests: performance of non-brain-damaged older adults. Flanagan JL, et al. **J Commun Disord** 1997 Jan-Feb;30(1):33–42; quiz 42–3

Multichannel waveforms and topographic mapping of the auditory brainstem response under common stimulus and recording conditions. Norrix LW, et al. **J Commun Disord** 1996 May-Jun;29(3):157–82

Axonal regrowth after spinal cord transection in adult zebrafish. Becker T, et al. **J Comp Neurol** 1997 Jan 27; 377(4):577–95

gamma-Aminobutyric acid receptor distribution in the mushroom bodies of a fly (Calliphora erythrocephala): a functional subdivision of Kenyon cells? Brotz TM, et al. **J Comp Neurol** 1997 Jun 23;383(1):42–8

Independent effects of incubation temperature and gonadal sex on the volume and metabolic capacity of brain nuclei in the leopard gecko (Eublepharis macularius), a lizard with temperature-dependent sex determination. Coomber P, et al. **J Comp Neurol** 1997 Apr 14;380(3):409–21

Differential central projections of vestibular afferents in pigeons. Dickman JD, et al. **J Comp Neurol** 1996 Mar 25; 367(1):110–31

Morphology of globus pallidus neurons: its correlation with electrophysiology in guinea pig brain slices [published erratum appears in J Comp Neurol 1997 Mar 31;380(1):154] Nambu A, et al. **J Comp Neurol** 1997 Jan 6;377(1):85–94

Nitric oxide synthase in learning-relevant nuclei of the chick brain: morphology, distribution, and relation to transmitter phenotypes. von Bartheld CS, et al. **J Comp Neurol** 1997 Jun 30;383(2):135–52

Dipole source localization by the mottled sculpin. II. The role of lateral line excitation patterns. Coombs S, et al. **J Comp Physiol [A]** 1997 Apr;180(4):401–15

Feature-detecting auditory neurons in the brain of a sound-producing fish. Crawford JD. **J Comp Physiol [A]** 1997 May;180(5):439–50

A role for GABAergic inhibition in electrosensory processing and common mode rejection in the dorsal nucleus of the little skate, Raja erinacea. Duman CH, et al. **J Comp Physiol [A]** 1996 Dec;179(6):797–807

Motor control of the jamming avoidance response of Apteronotus leptorhynchus: evolutionary changes of a behavior and its neuronal substrates. Heiligenberg W, et al. **J Comp Physiol [A]** 1996 Nov;179(5):653–74

Characterization of buccal motor programs elicited by a cholinergic agonist applied to the cerebral ganglion of Aplysia californica. Susswein AJ, et al. **J Comp Physiol [A]** 1996 Oct;179(4):509–24

Activity, blood temperature and brain temperature of free-ranging springbok. Mitchell D, et al. **J Comp Physiol [B]** 1997 Jul;167(5):335–43

Analysis of interpolation effects in the reslicing of functional MR images. Ostuni JL, et al. **J Comput Assist Tomogr** 1997 Sep-Oct;21(5):803–10

The way to a man's heart is through his stomach [editorial; comment] Gutierrez G. **J Crit Care** 1997 Jun;12(2):49–50 . Comment on: J Crit Care 1997 Jun;12(2):83–91. Comment on: J Crit Care 1997 Jun;12(2):92–8.

Memory and emotion processing in cortical and subcortical dementia. Baker JG. **J Gen Psychol** 1996 Jul;123(3):185–91

Fidelity assurance mechanisms of the brain with special reference to its immunogenic CNS compartment: their role in aging and aging-associated neurological disease. Blumenthal HT. **J Gerontol A Biol Sci Med Sci** 1997 Jan; 52(1):B1–9 (96 ref.)

The calcarine sulcus as an estimate of the total volume of human striate cortex: a morphometric study of reliability and intersubject variability. Gilissen E, et al. **J Hirnforsch** 1996;37(1):57–66

Platelet-activating factor in the modulation of excitatory amino acid neurotransmitter release and of gene expression. Bazan NG, et al. **J Lipid Mediat Cell Signal** 1996 Sep; 14(1–3):321–30 (49 ref.)

Platelet activating factor (PAF) in memory formation: role as a retrograde messenger in long-term potentiation. Kornecki E, et al. **J Lipid Mediat Cell Signal** 1996 Sep; 14(1–3):115–26

Molecular mechanism of sleep regulation by prostaglandin D2. Urade Y, et al. **J Lipid Mediat Cell Signal** 1996 Sep; 14(1–3):71–82 (47 ref.)

Functional MRI: a phrenology for the 1990's? [editorial] Cohen M. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):273–4

Localization and ontogeny of the orphan receptor OR-1 in the rat brain. Kainu T, et al. **J Mol Neurosci** 1996 Spring; 7(1):29–39

Transcranial magnetic stimulation induces alterations in brain monoamines. Ben-Shachar D, et al. **J Neural Transm** 1997; 104(2–3):191–7

Effects on locomotor activity after local application of (+)-UH232 in discrete areas of the rat brain. Kling-Petersen T, et al. **J Neural Transm** 1996; 103(3):331–41

Effects on locomotor activity after local application of D3 preferring compounds in discrete areas of the rat brain. Kling-Petersen T, et al. **J Neural Transm Gen Sect** 1995; 102(3):209–20

A phosphorylation cascade in the basal ganglia of the mammalian brain: regulation by the D-1 dopamine receptor. A mathematical model of known biochemical reactions. Kebabian JW. **J Neural Transm Suppl** 1997;

49:145–53 (14 ref.)
Central nervous system cytokines and their relevance for neurotoxicity and apoptosis. Licinio J. **J Neural Transm Suppl** 1997;49:169–75 (28 ref.)
Developmental and genetic regulation of programmed neuronal death. Weller M, et al. **J Neural Transm Suppl** 1997;50:115–23 (29 ref.)
Age- and behavior-related variation in volumes of song control nuclei in male European starlings. Bernard DJ, et al. **J Neurobiol** 1996 Jul;30(3):329–39
Sexually dimorphic neuron addition to an avian song-control region is not accounted for by sex differences in cell death. Burek MJ, et al. **J Neurobiol** 1997 Jul;33(1):61–71
Androgen control of vocal control region volumes in a wild migratory songbird (Junco hyemalis) is region and possibly age dependent. Gulledge CC, et al. **J Neurobiol** 1997 Apr; 32(4):391–402
Nitric oxide synthase in mating behavior circuitry of male Syrian hamster brain. Hadeishi Y, et al. **J Neurobiol** 1996 Aug;30(4):480–92
Sex difference among nonneuronal cells precedes sexually dimorphic neuron growth and survival in an avian song control nucleus. Nordeen EJ, et al. **J Neurobiol** 1996 Aug; 30(4):531–42
Brain mast cell degranulation regulates blood-brain barrier. Zhuang X, et al. **J Neurobiol** 1996 Dec;31(4):393–403
Expression of the glucagon-like peptide-1 receptor gene in rat brain. Alvarez E, et al. **J Neurochem** 1996 Mar; 66(3):920–7
Lysophosphatidic acid-induced proliferation-related signals in astrocytes. Keller JN, et al. **J Neurochem** 1997 Sep; 69(3):1073–84
Rubidium uptake and accumulation in peripheral myelinated internodal axons and Schwann cells. Lehning EJ, et al. **J Neurochem** 1997 Sep;69(3):968–77
Preparation of giant myelin vesicles and proteoliposomes to register ionic channels. Regueiro P, et al. **J Neurochem** 1996 Nov;67(5):2146–54
Expression of native GABAA receptors in Xenopus oocytes injected with rat brain synaptosomes. Sanna E, et al. **J Neurochem** 1996 Nov;67(5):2212–4
Ultrastructural view of central catecholaminergic transmission: immunocytochemical localization of synthesizing enzymes, transporters and receptors. Pickel VM, et al. **J Neurocytol** 1996 Dec;25(12):843–56 (141 ref.)
Neuroendocrine and behavioral responses and brain pattern of c-fos induction associated with audiogenic stress. Campeau S, et al. **J Neuroendocrinol** 1997 Aug;9(8):577–88
MR imaging (fMRI) represents an outgrowth of MR technology enabling localization of brain function during brain stimulation [letter; comment] Koenigsberg RA. **J Neuroimaging** 1996 Oct;6(4):213. Comment on: J Neuroimaging 1996 Oct;6(4):207–12.
Control of lymphocyte adhesion to brain and aortic endothelium: ICAM-1, VCAM-1 and negative charge. dos Santos WL, et al. **J Neuroimmunol** 1996 May; 66(1–2):125–34
Modulation of humoral immune response by central administration of leucine-enkephalin: effects of mu, delta and kappa opioid receptor antagonists. Radulović J, et al. **J Neuroimmunol** 1996 Apr;65(2):155–61
Effect of coil position and stimulus intensity in transcranial magnetic stimulation on human brain. Kaneko K, et al. **J Neurol Sci** 1997 Apr 15;147(2):155–9
Activation of prefrontal and posterior superior temporal areas in visual calculation. Sakurai Y, et al. **J Neurol Sci** 1996 Jul;139(1):89–94
Identification and characterization of cerebral ganglion neurons that induce swimming and modulate swim-related pedal ganglion neurons in Aplysia brasiliana. Gamkrelidze GN, et al. **J Neurophysiol** 1995 Oct;74(4):1444–62
Single-channel properties of a G-protein-coupled inward rectifier potassium channel in brain neurons. Grigg JJ, et al. **J Neurophysiol** 1996 Jan;75(1):318–28
Brain-behavior relationships: evidence from practice effects in spatial stimulus-response compatibility. Iacoboni M, et al. **J Neurophysiol** 1996 Jul;76(1):321–31
Spontaneous switching between ortho- and antidromic spiking as the normal mode of firing in the cerebral giant neurons of freely behaving Lymnaea stagnalis. Jansen RF, et al. **J Neurophysiol** 1996 Dec;76(6):4206–9
Inter- and intra-hemispheric spatiotemporal organization of spontaneous electrocortical oscillations. MacDonald KD, et al. **J Neurophysiol** 1996 Jul;76(1):423–37
Cholinergic activation of startle motoneurons by a pair of cerebral interneurons in the pteropod mollusk Clione limacina. Norekian TP, et al. **J Neurophysiol** 1997 Jan; 77(1):281–8
Intracellular characterization of neurons in the locust brain signaling impending collision. Rind FC. **J Neurophysiol** 1996 Mar;75(3):986–95
Motor task difficulty and brain activity: investigation of goal-directed reciprocal aiming using positron emission tomography. Winstein CJ, et al. **J Neurophysiol** 1997 Mar; 77(3):1581–94
White noise approach for estimating the passive electrical properties of neurons. Wright WN, et al. **J Neurophysiol** 1996 Nov;76(5):3442–50
Central pattern generator interneurons are targets for the modulatory serotonergic cerebral giant cells in the feeding system of Lymnaea. Yeoman MS, et al. **J Neurophysiol** 1996 Jan;75(1):11–25
Neural substrates of facial recognition. Andreasen NC, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring; 8(2):139–46
Central generation of grooming motor patterns and interlimb coordination in locusts. Berkowitz A, et al. **J Neurosci** 1996 Dec 15;16(24):8079–91
Local release of GABAergic inhibition in the motor cortex induces immediate-early gene expression in indirect pathway neurons of the striatum. Berretta S, et al. **J Neurosci** 1997 Jun 15;17(12):4752–63
Human brain language areas identified by functional magnetic resonance imaging. Binder JR, et al. **J Neurosci** 1997 Jan 1;17(1):353–62
Functional anatomic studies of memory retrieval for auditory words and visual pictures. Buckner RL, et al. **J Neurosci** 1996 Oct 1;16(19):6219–35
Age-related differences in neural activity during memory encoding and retrieval: a positron emission tomography study. Cabeza R, et al. **J Neurosci** 1997 Jan 1;17(1):391–400
Active polysomes are present in the large presynaptic endings of the synaptosomal fraction from squid brain. Crispino M, et al. **J Neurosci** 1997 Oct 15;17(20):7694–702
Cerebral representation of one's own past: neural networks involved in autobiographical memory. Fink GR, et al. **J Neurosci** 1996 Jul 1;16(13):4275–82
The role of internal models in motion planning and control: evidence from grip force adjustments during movements of hand-held loads. Flanagan JR, et al. **J Neurosci** 1997 Feb 15;17(4):1519–28
Regional cerebral blood flow changes as a function of delta and spindle activity during slow wave sleep in humans. Hofle N, et al. **J Neurosci** 1997 Jun 15;17(12):4800–8
Functional neuroanatomy of human slow wave sleep. Maquet P, et al. **J Neurosci** 1997 Apr 15;17(8):2807–12
Central administration of a growth hormone (GH) receptor mRNA antisense increases GH pulsatility and decreases hypothalamic somatostatin expression in rats. Pellegrini E, et al. **J Neurosci** 1996 Dec 15;16(24):8140–8
Tenascin-R is an intrinsic autocrine factor for oligodendrocyte differentiation and promotes cell adhesion by a sulfatide-mediated mechanism. Pesheva P, et al. **J Neurosci** 1997 Jun 15;17(12):4642–51
Distributed neural systems underlying the timing of movements. Rao SM, et al. **J Neurosci** 1997 Jul 15; 17(14):5528–35
Seasonal changes in testosterone, neural attributes of song control nuclei, and song structure in wild songbirds. Smith GT, et al. **J Neurosci** 1997 Aug 1;17(15):6001–10
Brain aging: changes in the nature of information coding by the hippocampus. Tanila H, et al. **J Neurosci** 1997 Jul 1; 17(13):5155–66
Regulation of neuromodulatory actions of angiotensin II in the brain neurons by the Ras-dependent mitogen-activated protein kinase pathway. Yang H, et al. **J Neurosci** 1996 Jul 1;16(13):4047–58
Transmitter-induced calcium signalling in cultured neurons of the insect brain. Bicker G. **J Neurosci Methods** 1996 Oct 21;69(1):33–41
An automated system for regulating brain temperature in awake and freely moving rodents. Colbourne F, et al. **J Neurosci Methods** 1996 Aug;67(2):185–90
An in vitro preparation of frog nose and brain for the study of odour-evoked oscillatory activity. Delaney KR, et al. **J Neurosci Methods** 1996 Oct;68(2):193–202
A pressure system for the microinjection of substances into the brain of awake monkeys. Dias EC, et al. **J Neurosci Methods** 1997 Mar;72(1):43–7
Marking microelectrode penetrations with fluorescent dyes. DiCarlo JJ, et al. **J Neurosci Methods** 1996 Jan;64(1):75–81
Computer-assisted image-averaging strategies for the topographic analysis of in situ hybridization autoradiographs. Ginsberg MD, et al. **J Neurosci Methods** 1996 Oct;68(2):225–33
A simple and reliable method for delivering small fluid volumes to the brain of a freely moving rat. Hesse GW, et al. **J Neurosci Methods** 1997 Mar;72(1):35–8
Anatomical and immunohistochemical identification of catecholaminergic neurones in brain slice preparations used in electrophysiology. Johnson SM, et al. **J Neurosci Methods** 1996 Jan;64(1):83–93
Functional magnetic resonance imaging of the human brain. Kim SG, et al. **J Neurosci Methods** 1997 Jun 27; 74(2):229–43 (132 ref.)
T2 relaxation time as a marker of brain myelination: experimental MR study in two neonatal animal models. Miot-Noirault E, et al. **J Neurosci Methods** 1997 Mar; 72(1):5–14
Preparation of primary cultures and acute slices of the nervous system of the moth Manduca sexta. Oland LA, et al. **J Neurosci Methods** 1996 Oct 21;69(1):103–12
Voltage-clamp analysis of neurons within deep layers of the brain. Richter DW, et al. **J Neurosci Methods** 1996 Aug; 67(2):121–3
Images of the working brain: understanding human brain function with positron emission tomography. Watson JD. **J Neurosci Methods** 1997 Jun 27;74(2):245–56 (68 ref.)
Serotonin 5-HT2 receptor activation potentiates N-methyl-D-aspartate receptor-mediated ion currents by a protein kinase C-dependent mechanism. Blank T, et al. **J Neurosci Res** 1996 Jul 15;45(2):153–60
Intracellular pH regulation in cultured microglial cells from mouse brain. Faff L, et al. **J Neurosci Res** 1996 Nov 1; 46(3):294–304
Effects of propofol on cerebral blood flow, metabolism, and cerebral autoregulation in the anesthetized pig. Lagerkranser M, et al. **J Neurosurg Anesthesiol** 1997 Apr; 9(2):188–93
Detection of impaired cerebral autoregulation using spectral analysis of intracranial pressure waves. Nichols JS, et al. **J Neurotrauma** 1996 Aug;13(8):439–56
Biochemical and pharmacological activities of SR 142948A, a new potent neurotensin receptor antagonist. Gully D, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):802–12
Direct block of voltage-sensitive sodium channels by genistein, a tyrosine kinase inhibitor. Paillart C, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):521–6
The hypothesis of the uniqueness of the oculomotor neural integrator: direct experimental evidence in the cat. Godaux E, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):517–27
Membrane properties and synaptic inputs of suprachiasmatic nucleus neurons in rat brain slices. Jiang ZG, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):141–59
Non-averaged human brain potentials in somatic attention: the short-latency cognition-related P40 component. Tomberg C, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):559–74
Apolipoprotein E in the brain and its role in Alzheimer's disease. Poirier J. **J Psychiatry Neurosci** 1996 Mar; 21(2):128–34
Steroids conjugated to bovine serum albumin as tools to demonstrate specific steroid neuronal membrane binding sites. Zheng J, et al. **J Psychiatry Neurosci** 1996 May; 21(3):187–97
Processing of auditory stimuli during tonic and phasic periods of REM sleep as revealed by event-related brain potentials. Sallinen M, et al. **J Sleep Res** 1996 Dec;5(4):220–8
Metabolism of steroids in the brain: a new insight into the role of 5alpha-reductase and aromatase in brain differentiation and functions. Negri-Cesi P, et al. **J Steroid Biochem Mol Biol** 1996 Aug;58(5–6):455–66 (116 ref.)
The influence of work loads on regional differences in sweating rates. Takano S, et al. **Jpn J Physiol** 1996 Apr; 46(2):183–6
Neurotrophic activity in cytokine-activated astrocytes. Yoshida K, et al. **Keio J Med** 1997 Jun;46(2):55–60 (50 ref.)
Quantification of statistical type I and II errors in correlation analysis of simulated functional magnetic resonance imaging data. Baumgartner R, et al. **MAGMA** 1996 Sep-Dec;4(3–4):251–6
Evaluation of the early response in fMRI in individual subjects using short stimulus duration. Hu X, et al. **Magn Reson Med** 1997 Jun;37(6):877–84
Effect of magnetization transfer on the measurement of cerebral blood flow using steady-state arterial spin tagging approaches: a theoretical investigation. McLaughlin AC, et al. **Magn Reson Med** 1997 Apr;37(4):501–10
The nature of spatiotemporal changes in cerebral hemodynamics as manifested in functional magnetic resonance imaging. Mitra PP, et al. **Magn Reson Med** 1997 Apr;37(4):511–8
Toward a quantitative assessment of diffusion anisotropy [published erratum appears in Magn Reson Med 1997 Jun;37(6):972] Pierpaoli C, et al. **Magn Reson Med** 1996 Dec;36(6):893–906
Comparison of the BOLD- and EPISTAR-technique for functional brain imaging by using signal detection theory. Siewert B, et al. **Magn Reson Med** 1996 Aug;36(2):249–55
Unraveling diffusion constants in biological tissue by combining Carr-Purcell-Meiboom-Gill imaging and pulsed field gradient NMR. van Dusschoten D, et al. **Magn Reson Med** 1996 Dec;36(6):907–13
Hormonal, syndromal and EEG mapping studies in menopausal syndrome patients with and without depression as compared with controls. Saletu B, et al. **Maturitas** 1996 Feb;23(1):91–105
Multichannel wavelet-type decomposition of evoked potentials: model-based recognition of generator activity. Geva AB, et al. **Med Biol Eng Comput** 1997 Jan;35(1):40–6
Total and partial coherence analysis of spontaneous and evoked EEG by means of multi-variable autoregressive processing. Liberati D, et al. **Med Biol Eng Comput** 1997 Mar;35(2):124–30
Computation of neuromagnetic fields using finite-element method and Biot-Savart law. van den Broek SP, et al. **Med Biol Eng Comput** 1996 Jan;34(1):21–6
The relationship among brain, spinal cord and anesthetic requirements. Antognini JF. **Med Hypotheses** 1997 Jan; 48(1):83–7
A neurobiological model for Tourette syndrome centered on the nucleus accumbens. Brito GN. **Med Hypotheses** 1997 Aug;49(2):133–42
Reverse learning and the physiological basis of eye movement desensitization. Hassard A. **Med Hypotheses** 1996 Oct; 47(4):277–82 (45 ref.)
A brain model with the circuit to convert short-term memory into long-term memory. Wong CW. **Med Hypotheses** 1997 Mar;48(3):221–6 (34 ref.)
Facial cooling-induced bradycardia: attenuating effect of central command at exercise onset. Smith JC, et al. **Med Sci Sports Exerc** 1997 Mar;29(3):320–5
Comparative analyses of relative ERCC3 and ERCC6 mRNA levels in gliomas and adjacent non-neoplastic brain.

Dabholkar MD, et al. **Mol Carcinog** 1996 Sep;17(1):1–7

Species differences in the generation of reactive oxygen species by microglia. Colton C, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):15–20 (18 ref.)

Laboratory of Caribbean Brain Research Organization in the decade of the brain midpoint. Results in reaching behavior--interferences of subcortical motor centers, neurotransmitter blocking and brain function modeling. Hernández-Mesa N, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):253–8

Neural networks in the study of the brain. Reichgelt H. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):231–5

Nicotinic receptors in the brain. Molecular biology, function, and therapeutics. Vidal C. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):3–11 (48 ref.)

Central nervous system actions of oxytocin and modulation of behavior in humans. McCarthy MM, et al. **Mol Med Today** 1997 Jun;3(6):269–75 (49 ref.)

The early intracellular signaling pathway for the insulin/insulin-like growth factor receptor family in the mammalian central nervous system. Folli F, et al. **Mol Neurobiol** 1996 Oct;13(2):155–83 (162 ref.)

The system for regulating general attention in the human brain [news] Roland PE. **Mol Psychiatry** 1996 Sep; 1(4):303–6

Neurosteroids, with special reference to the effect of progesterone on myelination in peripheral nerves. Baulieu EE, et al. **Mult Scler** 1997 Apr;3(2):105–12 (51 ref.)

Quantitation of central activation failure during maximal voluntary contractions in humans [see comments] Kent-Braun JA, et al. **Muscle Nerve** 1996 Jul;19(7):861–9 . Comment in: Muscle Nerve 1997 Apr;20(4):521–3.

HIP1, a human homologue of S. cerevisiae Sla2p, interacts with membrane-associated huntingtin in the brain. Kalchman MA, et al. **Nat Genet** 1997 May;16(1):44–53

Can the West contribute more to Human Frontiers? [editorial] [see comments] **Nature** 1997 Mar 13;386(6621):95. Comment in: Nature 1997 Apr 24;386(6627):755.

Functional imaging of an illusion of pain [see comments] Craig AD, et al. **Nature** 1996 Nov 21;384(6606):258–60. Comment in: Nature 1996 Nov 21;384(6606):217–8.

Competition for brain space [news] Diamond JM. **Nature** 1996 Aug 29;382(6594):756–7

Neurobiology. Space and time in the mental universe [news; comment] Goldman-Rakic P. **Nature** 1997 Apr 10; 386(6625):559–60. Comment on: Nature 1997 Apr 10;386(6625):604–8. Comment on: Nature 1997 Apr 10;386(6625):608–11.

Dissociating types of mental computation [see comments] Marslen-Wilson WD, et al. **Nature** 1997 Jun 5; 387(6633):592–4. Comment in: Nature 1997 Jun 5;387(6633):547–8.

Brain waves deciphered [news; comment] Miller JP. **Nature** 1996 Nov 14;384(6605):115, 117. Comment on: Nature 1996 Nov 14;162–5.

Language-specific phoneme representations revealed by electric and magnetic brain responses. Näätänen R, et al. **Nature** 1997 Jan 30;385(6615):432–4

Japan bids to widen brain research funds [news] Nathan R. **Nature** 1997 Mar 13;386(6621):100

Words and rules in the human brain [news; comment] Pinker S. **Nature** 1997 Jun 5;387(6633):547–8. Comment on: Nature 1997 Jun 5;387(6633):592–4.

Natural atypical language dominance and language shifts from the right to the left hemisphere in right hemisphere pathology. Helmstaedter C, et al. **Naturwissenschaften** 1997 Jun;84(6):250–2

Statistical approach to shape from shading: reconstruction of three-dimensional face surfaces from single two-dimensional images. Atick JJ, et al. **Neural Comput** 1996 Aug 15;8(6):1321–40

Effects of age upon interhemispheric EEG coherence in normal adults. Duffy FH, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):587–99

Automatic and effortful processing in aging and dementia: event-related brain potentials. Ford JM, et al. **Neurobiol Aging** 1997 Mar–Apr;18(2):169–80

Brain–behavior linkages in aged rodent models: strategies for examining individual differences. Ingram DK. **Neurobiol Aging** 1996 May–Jun;17(3):497–9; discussion 500

Different brain areas are involved in memory expression at different times from training. Quillfeldt JA, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):97–101

The supra-ependymal innervation is not responsible for the repression of tight junctions in the rat cerebral ependyma. Rodríguez P, et al. **Neurobiology (Bp)** 1996;4(3):185–201

Characterization of the hyperpolarization activated nonspecific cation current (Ih) of bushy neurones from the rat anteroventral cochlear nucleus studied in a thin brain slice preparation. Rusznák Z, et al. **Neurobiology (Bp)** 1996; 4(3):275–6

Receptor binding properties of a hemorphin analogue in rat brain membrane preparations. Szikra J, et al. **Neurobiology (Bp)** 1996;4(3):279–80

Binding of double stranded oligonucleotide probes for particular transcription factors with leucine-zipper motifs in discrete brain structures of mice with acquired and inherent spontaneous seizures. Azuma Y, et al. **Neurochem Int** 1996 Sep;29(3):323–33

Nonclassical and endogenous cannabinoids: effects on the ordering of brain membranes. Bloom AS, et al. **Neurochem Res** 1997 May;22(5):563–8

Feeding, drug abuse, and the sensitization of reward by metabolic need. Carr KD. **Neurochem Res** 1996 Nov; 21(11):1455–67 (107 ref.)

Decreased calcium accumulation in isolated nerve endings during hibernation in ground squirrels. Gentile NT, et al. **Neurochem Res** 1996 Aug;21(8):947–54

Reinforcement processes in opiate addiction: a homeostatic model. Schulteis G, et al. **Neurochem Res** 1996 Nov; 21(11):1437–54 (133 ref.)

Motor imagery--anatomical representation and electrophysiological characteristics. Stephan KM, et al. **Neurochem Res** 1996 Sep;21(9):1105–16

Synaptic degeneration and remodelling after fast kindling of the olfactory bulb. Woldbye DP, et al. **Neurochem Res** 1996 May;21(5):585–93

Little brain--big brain. IV: Munich, 30 October to 3 November 1995. Grundy D, et al. **Neurogastroenterol Motil** 1996 Jun;8(2):153–5

Bereitschaftspotential to inner and overt speech. Kowalski J, et al. **Neurol Neurochir Pol** 1996;30 Suppl 3:15–24

Experiences in the use of event related potentials in the evaluation of cognitive processes. Lang AH. **Neurol Neurochir Pol** 1996;30 Suppl 3:9–14

The Japanese language and brain localization. Cremaschi F, et al. **Neurol Res** 1996 Jun;18(3):212–6

Microdialysis in the human brain: review of its applications. Hamani C, et al. **Neurol Res** 1997 Jun;19(3):281–8 (28 ref.)

A mathematical model of the intracranial system including autoregulation. Kadas ZM, et al. **Neurol Res** 1997 Aug; 19(4):441–50

Persistent patterns of brain activity: an EEG coherence study of the positive effect of music on spatial-temporal reasoning. Sarnthein J, et al. **Neurol Res** 1997 Apr; 19(2):107–16

A direct comparison of PET activation and electrocortical stimulation mapping for language localization. Bookheimer SY, et al. **Neurology** 1997 Apr;48(4):1056–65

Optimum stimulus parameters for lateralized suppression of speech with magnetic brain stimulation. Epstein CM, et al. **Neurology** 1996 Dec;47(6):1590–3

Ovarian steroids and the brain: implications for cognition and aging. McEwen BS, et al. **Neurology** 1997 May;48(5 Suppl 7):S8–15 (90 ref.)

Assessment of digital EEG, quantitative EEG, and EEG brain mapping: report of the American Academy of Neurology and the American Clinical Neurophysiology Society. Nuwer M. **Neurology** 1997 Jul;49(1):277–92 (325 ref.)

The insistent call from functional MRI [editorial; comment] Prichard JW, et al. **Neurology** 1997 Apr;48(4):797–800. Comment on: Neurology 1997 Apr;48(4):1003–12.

Age-related reduction in functional MRI response to photic stimulation. Ross MH, et al. **Neurology** 1997 Jan;48(1):173–6

Neural mechanisms of visual motion perception in primates. Andersen RA. **Neuron** 1997 Jun;18(6):865–72 (41 ref.)

Time to remember. Dudai Y. **Neuron** 1997 Feb;18(2):179–82 (23 ref.)

Appetite and body weight regulation: is it all in the brain? Kalra SP. **Neuron** 1997 Aug;19(2):227–30 (22 ref.)

Persistent sodium currents through brain sodium channels induced by G protein betagamma subunits. Ma JY, et al. **Neuron** 1997 Aug;19(2):443–52

Reconstructing the engram: simultaneous, multisite, many single neuron recordings. Nicolelis MA, et al. **Neuron** 1997 Apr;18(4):529–37

Systems of memory in the human brain. Willingham DB. **Neuron** 1997 Jan;18(1):5–8 (19 ref.)

Involvement of supraspinal and spinal CCK receptors in the modulation of antinociception induced by cold water swimming stress in the mouse. Suh HW, et al. **Neuropeptides** 1996 Aug;30(4):379–84

Dopamine receptors and brain function. Jaber M, et al. **Neuropharmacology** 1996;35(11):1503–19 (205 ref.)

Comparison of the EEG effects of midazolam, thiopental, and propofol: the role of underlying oscillatory systems. Feshchenko VA, et al. **Neuropsychobiology** 1997; 35(4):211–20

Cortical and subcortical circuits for perception and memory. Special issue in honour of Brenda Milner. **Neuropsychologia** 1997 Jul;35(7):927–1057

Semantic category priming in the left cerebral hemisphere. Abernethy M, et al. **Neuropsychologia** 1996 May; 34(5):339–50

Functional activation of the human brain during mental rotation. Alivisatos B, et al. **Neuropsychologia** 1997 Feb; 35(2):111–8

Factor analysis and the cerebral hemispheres: "unlocalized" functions. Boles DB. **Neuropsychologia** 1996 Jul; 34(7):723–36

Hemispheric specialization for discourse reports of emotional experiences: relationships to demographic, neurological, and perceptual variables. Borod JC, et al. **Neuropsychologia** 1996 May;34(5):351–9

Lateralization of predator-evasion response in a teleost fish (Girardinus falcatus). Cantalupo C, et al. **Neuropsychologia** 1995 Dec;33(12):1637–46

Intermanual transfer of somaesthetic information: a two-point discrimination experiment. Charron JF, et al. **Neuropsychologia** 1996 Sep;34(9):873–7

On language laterality in normal dextrals and sinistrals: results from the bilateral object naming latency task. McKeever WF, et al. **Neuropsychologia** 1995 Dec;33(12):1627–35

A failure to produce a left hemisphere advantage through verbal priming. Nicholls ME, et al. **Neuropsychologia** 1996 Sep;34(9):893–904

Interhemispheric transmission of information and functional asymmetry of the human brain. Nowicka A, et al. **Neuropsychologia** 1996 Feb;34(2):147–51

Multiple visuospatial working memory buffers: evidence from spatiotemporal patterns of brain activity [published erratum appears in Neuropsychologia 1997 Apr;35(4):572] Ruchkin DS, et al. **Neuropsychologia** 1997 Feb; 35(2):195–209

Event-related brain potential examination of implicit memory processes: masked and unmasked repetition priming. Schnyer DM, et al. **Neuropsychology** 1997 Apr;11(2):243–60

Linking the family of D2 receptors to neuronal circuits in human brain: insights into schizophrenia. Joyce JN, et al. **Neuropsychopharmacology** 1997 Jun;16(6):375–84 (78 ref.)

Special issue: A tribute to Professor Hiroshi Asanuma. **Neuroreport** 1996 Oct 2;7(14):2251–411

Brain cell microenvironment effects on neuron excitability and basal metabolism. Aiello GL, et al. **Neuroreport** 1997 Mar 24;8(5):1165–8

Neurobiological basis of motor learning in mammals. Asanuma H, et al. **Neuroreport** 1997 Mar 3;8(4):i–vi (59 ref.)

Nerve length and volume in synaptic vs diffusion neurotransmission: a model. Bach-y-Rita P, et al. **Neuroreport** 1996 Jun 17;7(9):1502–4

Adrenocortical activation by herpes virus: involvement of IL-1 beta and central noradrenergic system. Ben Hur T, et al. **Neuroreport** 1996 Mar 22;7(4):927–31

Functional magnetic resonance imaging shows localized brain activation during serial transcranial stimulation in man. Brandt SA, et al. **Neuroreport** 1996 Feb 29;7(3):734–6

Electrophysiological correlates of categorical phoneme perception in adults. Dehaene-Lambertz G. **Neuroreport** 1997 Mar 3;8(4):919–24

Cerebral activation during the exertion of sustained static force in man. Dettmers C, et al. **Neuroreport** 1996 Sep 2; 7(13):2103–10

Nitric oxide-haemoglobin interaction: a new biochemical hypothesis for signal changes in fMRI. Di Salle F, et al. **Neuroreport** 1997 Jan 20;8(2):461–4

Visual working memory for shape and 3D-orientation: a PET study. Faillenot I, et al. **Neuroreport** 1997 Mar 3;8(4):859–62

Functional neuroanatomy of robbery re-experience: affective memories studied with PET. Fischer H, et al. **Neuroreport** 1996 Sep 2;7(13):2081–6

Neural control of micturition in man examined with single photon emission computed tomography using 99mTc-HMPAO. Fukuyama H, et al. **Neuroreport** 1996 Nov 25;7(18):3009–12

Mental navigation along memorized routes activates the hippocampus, precuneus, and insula. Ghaem O, et al. **Neuroreport** 1997 Feb 10;8(3):739–44

Effect of nilvadipine on high-voltage activated Ca2+ channels in rat CNS neurons. Ishibashi H, et al. **Neuroreport** 1997 Mar 3;8(4):853–7

Electrophysiological brain activity and memory source monitoring. Johnson MK, et al. **Neuroreport** 1996 Nov 25; 7(18):2929–32

Left-hemisphere specialization for the processing of acoustic transients. Johnsrude IS, et al. **Neuroreport** 1997 May 6; 8(7):1761–5

Two modes of activity-dependent synaptogenesis of cerebral neurons in vitro. Kiyosue K, et al. **Neuroreport** 1996 Feb 29;7(3):701–4

Successive activation of both cerebral hemispheres during cued word generation. Knecht S, et al. **Neuroreport** 1996 Feb 29;7(3):820–4

Transient brain activity used in magnetic resonance imaging to detect functional areas. Konishi S, et al. **Neuroreport** 1996 Dec 20;8(1):19–23

Dopaminergic modulation of LTP induction in the dentate gyrus of intact brain. Kusuki T, et al. **Neuroreport** 1997 May 27;8(8):2037–40

Brain activity during stimulus independent thought. McGuire PK, et al. **Neuroreport** 1996 Sep 2;7(13):2095–9

Neural correlates of thinking in sign language. McGuire PK, et al. **Neuroreport** 1997 Feb 10;8(3):695–8

Hemispheric asymmetries in global and local processing: evidence from fMRI. Martinez A, et al. **Neuroreport** 1997 May 6;8(7):1685–9

Relationship between neuronal activity and brain temperature in rats. Moser EI, et al. **Neuroreport** 1996 Jul 29; 7(11):1876–80

Brain activation during script event processing. Partiot A, et al. **Neuroreport** 1996 Feb 29;7(3):761–6

Brain processing of native and foreign languages. Perani D, et al. **Neuroreport** 1996 Nov 4;7(15–17):2439–44

Auditory event-related potentials (ERP) reflect temporal changes in speech stimuli. Pihko E, et al. **Neuroreport** 1997 Mar 3;8(4):911–4

Functional MRI evidence for subcortical participation in conceptual reasoning skills. Rao SM, et al. **Neuroreport** 1997 May 27;8(8):1987–93

Topography of spatially enhanced human short-latency somatosensory evoked potentials. Rossini PM, et al. **Neuroreport** 1997 Mar 3;8(4):991–4

Early brain potentials link repetition blindness, priming and novelty detection. Schendan HE, et al. **Neuroreport** 1997

May 27;8(8):1943–8
Mismatch response of the human brain to changes in sound location. Schröger E, et al. **Neuroreport** 1996 Nov 25; 7(18):3005–8
Gamma responses in the EEG: elementary signals with multiple functional correlates. Schürmann M, et al. **Neuroreport** 1997 May 6;8(7):1793–6
Gamma responses in the EEG: elementary signals with multiple functional correlates. Schürmann M, et al. **Neuroreport** 1997 Jan 20;8(2):531–4
Evidence for rapid face recognition from human scalp and intracranial electrodes. Seeck M, et al. **Neuroreport** 1997 Aug 18;8(12):2749–54
Role of GABAA receptors in the organization of brain and behavioural sex differences. Segovia S, et al. **Neuroreport** 1996 Nov 4;7(15–17):2553–7
Functional magnetic resonance imaging (fMRI) during mental writing with phonograms. Sugishita M, et al. **Neuroreport** 1996 Aug 12;7(12):1917–21
Release of cerebral acetylcholine increases during visually mediated behavior in monkeys. Tang Y, et al. **Neuroreport** 1996 Sep 2;7(13):2231–5
Brain topography of the human sleep EEG: antero–posterior shifts of spectral power. Werth E, et al. **Neuroreport** 1996 Dec 20;8(1):123–7
Brain potentials indicate differences between regular and irregular German plurals. Weyerts H, et al. **Neuroreport** 1997 Mar 3;8(4):957–62
Magnetic brain imaging of extinction processes in human classical conditioning. Wik G, et al. **Neuroreport** 1997 May 6;8(7):1789–92
Cerebral interrelationships of cognitive and emotional activity: pathways and mechanisms. Adrianov OS. **Neurosci Behav Physiol** 1996 Jul–Aug;26(4):329–39 (58 ref.)
Studies of the role of the brain cholinergic system in the mechanisms of dissociative learning. Azarashvili AA. **Neurosci Behav Physiol** 1997 Jul–Aug;27(4):341–6
Dynamic character and age dependence of functional brain organization in attention. Dubrovinskaya NV, et al. **Neurosci Behav Physiol** 1997 Jul–Aug;27(4):427–34
Population profile of brain asymmetry in rats after intra–amniotic administration of vasopressin. Klement'ev BI, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):283–7
Suppression of synaptic input of defense behavior command neurons by stimulation of neurons of the mesocerebrum in a preparation of the isolated CNS of the common snail. Maksimova OA. **Neurosci Behav Physiol** 1996 May–Jun; 26(3):259–65
Comparative morphological study of homo– and heterotopic neural transplants. Otellin VA, et al. **Neurosci Behav Physiol** 1997 Mar–Apr;27(2):178–82
Dopamine and the reinforcing system of the brain. Petrov ES, et al. **Neurosci Behav Physiol** 1997 May–Jun; 27(3):309–11
Sensory information––the major factor of ontogeny. Raevsky VV, et al. **Neurosci Behav Physiol** 1997 Jul–Aug; 27(4):455–61 (30 ref.)
Basic molecular–cellular mechanisms of adaptive responses of the brain. Samoilov MO. **Neurosci Behav Physiol** 1997 May–Jun;27(3):200–6 (32 ref.)
Interactions between the serotoninergic and noradrenergic systems of the brain and their role in the regulation of animal behavior. Semenova TP, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):280–2
Brain mechanisms of emotions. Simonov PV. **Neurosci Behav Physiol** 1997 Jul–Aug;27(4):405–13 (21 ref.)
Universal method for microelectrode and neurochemical investigations of subcortical brain structures of awake cats. Suvorov NF, et al. **Neurosci Behav Physiol** 1996 May–Jun; 26(3):251–5
Device for artifact–free recording of brain electrical activity during exposure of rats to UHF fields in conditions of free behavior. Vorob'ev VV, et al. **Neurosci Behav Physiol** 1996 Nov–Dec;26(6):565–6
Outlining a brain model of mental imaging abilities. Faw B. **Neurosci Biobehav Rev** 1997 May;21(3):283–8 (63 ref.)
Effects of MDMA on complex brain function in laboratory animals. Frederick DL, et al. **Neurosci Biobehav Rev** 1997 Jan;21(1):67–78 (70 ref.)
Lateralization of brain mechanisms underlying automatic and controlled forms of spatial orienting of attention. Gainotti G. **Neurosci Biobehav Rev** 1996 Winter;20(4):617–22 (48 ref.)
Behavioral, structural and neurochemical asymmetries in the avian brain: a model system for studying visual development and processing. Rogers L. **Neurosci Biobehav Rev** 1996 Autumn;20(3):487–503 (149 ref.)
Non–linear analysis of emotion EEG: calculation of Kolmogorov entropy and the principal Lyapunov exponent. Aftanas LI, et al. **Neurosci Lett** 1997 Apr 18; 226(1):13–6
Direct isolation of ultra–late (C–fibre) evoked brain potentials by CO2 laser stimulation of tiny cutaneous surface areas in man. Bragard D, et al. **Neurosci Lett** 1996 May 10; 209(2):81–4
Distinct soluble astrocytic factors induce expression of outward K+ currents and ramification of brain macıophages. Eder C, et al. **Neurosci Lett** 1997 May 2; 226(3):147–50
Nerve growth factor effects on the song control system of zebra finches. Fiore M, et al. **Neurosci Lett** 1997 Feb 28; 223(3):161–4
Brain functional activity during gait in normal subjects: a SPECT study. Fukuyama H, et al. **Neurosci Lett** 1997 Jun 13;228(3):183–6
Topography of brain electrical activity dissociates the retrieval of spatial versus verbal information from episodic long–term memory in humans. Heil M, et al. **Neurosci Lett** 1997 Jan 24;222(1):45–8
Brain potentials and time estimation in humans. Johannes S, et al. **Neurosci Lett** 1997 Aug 8;231(2):63–6
Multichannel EEG fields during and without visual input: frequency domain model source locations and dimensional complexities. Kondakor I, et al. **Neurosci Lett** 1997 Apr 18;226(1):49–52
Cerebello–cerebral projections onto the ventral part of the frontal cortex of the macaque monkey. Kyuhou S, et al. **Neurosci Lett** 1997 Jul 18;230(2):101–4
Binaural interaction in the human brain can be non–invasively accessed with long–latency event–related potentials. Lavikainen J, et al. **Neurosci Lett** 1997 Jan 24;222(1):37–40
Culture of neurons from postmortem rat brain. McManus DQ, et al. **Neurosci Lett** 1997 Mar 21;224(3):193–6
Focal brain stimulation in healthy humans: motor maps changes following partial hand sensory deprivation. Rossini PM, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):191–5
The central neural pathways involved in micturition in the neonatal rat as revealed by the injection of pseudorabies virus into the urinary bladder. Sugaya K, et al. **Neurosci Lett** 1997 Feb 28;223(3):197–200
The musical brain: brain waves reveal the neurophysiological basis of musicality in human subjects. Tervaniemi M, et al. **Neurosci Lett** 1997 Apr 18;226(1):1–4
A C–terminal cyclic 8–13 neurotensin fragment analog appears less exposed to neprilysin when it crosses the blood–brain barrier than the cerebrospinal fluid–brain barrier in mice. Van Kemmel FM, et al. **Neurosci Lett** 1996 Oct 11;217(1):58–60
A bioadaptive approach for experimental pain research in humans using laser–evoked brain potentials. Weiss T, et al. **Neurosci Lett** 1997 May 16;227(2):95–8
Transforming growth factor–beta1 induces apoptosis of rat microglia without relation to bcl–2 oncoprotein expression. Xiao BG, et al. **Neurosci Lett** 1997 Apr 25;226(2):71–4
Neostriatal cell subtypes and their functional roles. Kawaguchi Y. **Neurosci Res** 1997 Jan;27(1):1–8 (77 ref.)
Long–lasting enhancement of synaptic activity in dissociated cerebral neurons induced by brief exposure to Mg2+–free conditions. Kudoh SN, et al. **Neurosci Res** 1997 Aug; 28(4):337–44
Event–related brain potentials to unfamiliar faces in explicit and implicit memory tasks. Münte TF, et al. **Neurosci Res** 1997 Jul;28(3):223–33
Population coding by cell assemblies––what it really is in the brain. Sakurai Y. **Neurosci Res** 1996 Sep;26(1):1–16 (80 ref.)
Magnetoencephalographic study of intracerebral interactions caused by bilateral posterior tibial nerve stimulation in man. Shimojo M, et al. **Neurosci Res** 1997 May;28(1):41–7
The development of diurnal rhythmicity in fetal suprachiasmatic neurons as demonstrated by fos immunohistochemistry. Breen S, et al. **Neuroscience** 1996 Oct;74(3):917–26
Elicitation and reduction of fear: behavioural and neuroendocrine indices and brain induction of the immediate–early gene c–fos. Campeau S, et al. **Neuroscience** 1997 Jun;78(4):1087–104
Adrenal chromaffin cells on microcarriers exhibit enhanced long–term functional effects when implanted into the mammalian brain. Cherksey BD, et al. **Neuroscience** 1996 Nov;75(2):657–64
D1 dopamine receptor–deficient mouse: cocaine–induced regulation of immediate–early gene and substance P expression in the striatum. Drago J, et al. **Neuroscience** 1996 Oct;74(3):813–23
Characterization of presynaptic proteins involved in synaptic vesicle exocytosis in the nervous system of Torpedo marmorata. Herreros J, et al. **Neuroscience** 1997 Jul; 79(1):285–94
Memory, sleep and the evolution of mechanisms of synaptic efficacy maintenance. Kavanau JL. **Neuroscience** 1997 Jul; 79(1):7–44 (347 ref.)
Glial cell line–derived neurotrophic factor induces the dopaminergic and cholinergic phenotype and increases locomotor activity in aged Fischer 344 rats. Lapchak PA, et al. **Neuroscience** 1997 Apr;77(3):745–52
The role of ventral tegmental dopamine neurons in locomotor sensitization following quinpirole or (+)–amphetamine: ex vivo voltammetric evidence. Muscat R, et al. **Neuroscience** 1996 Dec;75(4):1175–84
Extensive migration and target innervation by striatal precursors after grafting into the neonatal striatum. Olsson M, et al. **Neuroscience** 1997 Jul;79(1):57–78
Mutual interactions of the presynaptic histamine H3 and prostaglandin EP3 receptors on the noradrenergic terminals in the mouse brain. Schlicker E, et al. **Neuroscience** 1997 Jul;79(1):247–54
Glutamate hyperexcitability and seizure–like activity throughout the brain and spinal cord upon relief from chronic glutamate receptor blockade in culture. Van Den Pol AN, et al. **Neuroscience** 1996 Oct;74(3):653–74
Global and serial neurons form A hierarchically arranged interface proposed to underlie memory and cognition. Woolf NJ. **Neuroscience** 1996 Oct;74(3):625–51 (288 ref.)
Magnetic resonance imaging of human brain function. Principles, practicalities, and possibilities. Bandettini PA, et al. **Neurosurg Clin N Am** 1997 Jul;8(3):345–71 (197 ref.)
Functional magnetic resonance imaging. Language mapping. Binder J. **Neurosurg Clin N Am** 1997 Jul;8(3):383–92
The noninvasive identification of language function. Neuroimaging and rapid transcranial magnetic stimulation. Gaillard WD, et al. **Neurosurg Clin N Am** 1997 Jul; 8(3):321–35 (100 ref.)
Molecular mechanisms of the brain reward system. **NIDA Res Monogr** 1996;162:34–6
A study of the contribution of changes in the cerebral blood volume to the haemodynamic response to anoxia in rat brain. Jones RA, et al. **NMR Biomed** 1997 Apr;10(2):59–66
Ultrafast perfusion–weighted MRI of functional brain activation in rats during forepaw stimulation: comparison with T2 –weighted MRI. Kerskens CM, et al. **NMR Biomed** 1996 Feb;9(1):20–3
Force of voluntary exercise does not affect sensorimotor cortex activation as detected by functional MRI at 1.5 T. Ludman CN, et al. **NMR Biomed** 1996 Aug;9(5):228–32
New aspects of brain physiology. Ross BD, et al. **NMR Biomed** 1996 Oct;9(7):279–96 (108 ref.)
The physiology and brain mechanisms of feeding. Rowland NE, et al. **Nutrition** 1996 Sep;12(9):626–39 (178 ref.)
Role of nucleosides and nucleotides in the immune system, gut reparation after injury, and brain function. Yamamoto S, et al. **Nutrition** 1997 Apr;13(4):372–4 (15 ref.)
Neurophysiological assessment of brain function and maturation: I. A measure of brain adaptation in high risk infants. Scher MS. **Pediatr Neurol** 1997 Apr;16(3):191–8 (100 ref.)
Neurophysiological assessment of brain function and maturation. II. A measure of brain dysmaturity in healthy preterm neonates. Scher MS. **Pediatr Neurol** 1997 May; 16(4):287–95 (36 ref.)
The in vivo effect of bilirubin on the N–methyl–D–aspartate receptor/ion channel complex in the brains of newborn piglets. Hoffman DJ, et al. **Pediatr Res** 1996 Dec; 40(6):804–8
Synaptic innervation of enkephalinergic neurons by axon terminals immunoreactive to dopamine–beta–hydroxylase in the rat area postrema. Guan JL, et al. **Peptides** 1996; 17(7):1203–6
Pseudoneglect of males and females on a spatial short–term memory task. Nalçaci E, et al. **Percept Mot Skills** 1997 Feb;84(1):99–105
Differential entrainment of electroencephalographic activity by weak complex electromagnetic fields. Persinger MA, et al. **Percept Mot Skills** 1997 Apr;84(2):527–36
Cerebral monitoring during cardiopulmonary bypass. Ali MI, et al. **Perfusion** 1996 Jul;11(4):299–312 (43 ref.)
Is "sudden illumination" the result of the activation of a creative center at the human brain? Rodriguez–Fernandez JL. **Perspect Biol Med** 1996 Winter;39(2):207–307 (149 ref.)
Functional expression of rat brain cloned alpha1E calcium channels in COS–7 cells. Stephens GJ, et al. **Pflugers Arch** 1997 Feb;433(4):523–32
Measurement issues in curve–shift analysis of apomorphine effects on rewarding brain stimulation. Hall FS, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):417–23
Low–dose apomorphine attenuates morphine–induced enhancement of brain stimulation reward. Knapp CM, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):87–91
Naltrindole, a delta–opioid antagonist, blocks MDMA's ability to enhance pressing for rewarding brain stimulation. Reid LD, et al. **Pharmacol Biochem Behav** 1996 Feb; 53(2):477–80
Involvement of the brain catecholaminergic system in the regulation of dominant behavior. Serova LI, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):285–90
Imaging brain structure and function, infection and gene expression in the body using light. Benaron DA, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):755–61 (18 ref.)
Quantification of intensity variations in functional MR images using rotated principal components. Backfrieder W, et al. **Phys Med Biol** 1996 Aug;41(8):1425–38
Calculation of electrical potentials on the surface of a realistic head model by finite differences. Lemieux L, et al. **Phys Med Biol** 1996 Jul;41(7):1079–91
Isolated–brain parallels to simple types of learning and memory in Tritonia. Brown GD. **Physiol Behav** 1997 Sep; 62(3):509–18
Selective activation of CCK–B receptors does not induce sleep and does not affect EEG slow–wave activity and brain temperature in rats. Chang HY, et al. **Physiol Behav** 1997 Jul;62(1):175–9
Effect of exposure to novelty on brain monoamines in C57BL/6 and DBA/2 mice. Jones BC, et al. **Physiol Behav** 1996 Feb;59(2):361–7
A simple design for a small fixed four–electrode brain stimulation array. Richterich L, et al. **Physiol Behav** 1997 Aug;62(2):427–9
Tail pinch induces fos immunoreactivity within several regions of the male rat brain: effects of age. Smith WJ, et al. **Physiol Behav** 1997 May;61(5):717–23
The mechanism by which exercise modifies brain function. Sutoo DE, et al. **Physiol Behav** 1996 Jul;60(1):177–81
Na depletion–induced Na appetite of sheep is independent of brain angiotensin II. Weisinger RS, et al.

Physiol Behav 1997 Jul;62(1):43–51

Nervus terminalis lesions: II. Enhancement of lordosis induced by tactile stimulation in the hamster. Wirsig-Wiechmann CR. **Physiol Behav** 1997 Jun; 61(6):867–71

Papers from a National Academy of Sciences Colloquium on Memory: Recording Experience in Cells and Circuits. Irvine, California, February 17–20, 1996. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13435–551

The fractionation of working memory. Baddeley A. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13468–72 (50 ref.)

Functional breakdown of the lipid bilayer of the myelin membrane in central and peripheral nervous system by disrupted galactocerebroside synthesis. Bosio A, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13280–5

Faithful representation of similarities among three-dimensional shapes in human vision. Cutzu F, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):12046–50

Network of tangential pathways for neuronal migration in adult mammalian brain. Doetsch F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14895–900

Event-related brain potential correlates of two states of conscious awareness in memory. Düzel E, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5973–8

Functional organization of the hippocampal memory system. Eichenbaum H, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13500–7 (51 ref.)

Cholinergic stimulation alters performance and task-specific regional cerebral blood flow during working memory. Furey ML, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6512–6

Regional and cellular fractionation of working memory. Goldman-Rakic PS. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13473–80 (94 ref.)

Memory: recording experience in cells and circuits: diversity in memory research. Goldman-Rakic PS. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13435–7 (24 ref.)

Brain lipids that induce sleep are novel modulators of 5-hydroxytrypamine receptors. Huidobro-Toro JP, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8078–82

When the brain changes its mind: interocular grouping during binocular rivalry. Kovács I, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15508–11

Potential brain neuronal targets for amphetamine-, methylphenidate-, and modafinil-induced wakefulness, evidenced by c-fos immunocytochemistry in the cat. Lin JS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):14128–33

Information processing in the human brain: magnetoencephalographic approach. Lounasmaa OV, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8809–15 (41 ref.)

Involvement of the amygdala in memory storage: interaction with other brain systems. McGaugh JL, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13508–14 (110 ref.)

Arrest of neuronal migration by excitatory amino acids in hamster developing brain. Marret S, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15463–8

Behavioral effects of estrogen receptor gene disruption in male mice. Ogawa S, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1476–81

Pattern of neuronal activity associated with conscious and unconscious processing of visual signals. Sahraie A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9406–11

How the brain keeps the eyes still. Seung HS. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13339–44

Structure and function of declarative and nondeclarative memory systems. Squire LR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13515–22 (66 ref.)

Memory systems in the brain and localization of a memory. Thompson RF, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13438–44 (104 ref.)

Gamma-aminobutyric acid type B receptor-dependent burst-firing in thalamic neurons: a dynamic clamp study. Ulrich D, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13245–9

Relationship between psychostimulant-induced "high" and dopamine transporter occupancy. Volkow ND, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10388–92

Differential distribution of two ATP-gated channels (P2X receptors) determined by immunocytochemistry. Vulchanova L, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8063–7

Adenovirus-mediated gene delivery into neuronal precursors of the adult mouse brain. Yoon SO, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11974–9

Hemispheric specialization for global and local processing: the effect of stimulus category. Fink GR, et al. **Proc R Soc Lond B Biol Sci** 1997 Apr 22;264(1381):487–94

Neural responses to salient visual stimuli. Morris JS, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):769–75

Is pH a biochemical marker of IQ? Rae C, et al. **Proc R Soc Lond B Biol Sci** 1996 Aug 22;263(1373):1061–4

Neural control of atrial natriuretic peptide actions on fluid intake and excretion. McCann SM, et al. **Proc Soc Exp Biol Med** 1996 Nov;213(2):117–27 (53 ref.)

Cholinergic drug resistance and impaired spatial learning in transgenic mice overexpressing human brain acetylcholinesterase. Andres C, et al. **Prog Brain Res** 1996; 109:265–72

Involvement of the spino-parabrachio -amygdaloid and -hypothalamic pathways in the autonomic and affective emotional aspects of pain. Bernard JF, et al. **Prog Brain Res** 1996;107:243–55 (80 ref.)

Is the cerebellum sensory for motor's sake, or motor for sensory's sake: the view from the whiskers of a rat? Bower JM. **Prog Brain Res** 1997;114:463–96 (193 ref.)

Activity-related modulation of cholinergic transmission. Collier B. **Prog Brain Res** 1996;109:243–9 (41 ref.)

Effects of trophic factors on the CNS cholinergic phenotype. Cuello AC. **Prog Brain Res** 1996;109:347–58 (59 ref.)

Muscarinic receptors and cell signalling. Löffelholz K. **Prog Brain Res** 1996;109:191–4 (33 ref.)

Presynaptic interactions between acetylcholine and glycine in the human brain. Marchi M, et al. **Prog Brain Res** 1996; 109:225–9 (35 ref.)

Purinergic regulation of acetylcholine release. Ribeiro JA, et al. **Prog Brain Res** 1996;109:231–41 (41 ref.)

Intrinsic properties and environmental factors in the regeneration of adult cerebellar axons. Rossi F, et al. **Prog Brain Res** 1997;114:283–96 (43 ref.)

Synaptic modulation by neurotrophic factors. Stoop R, et al. **Prog Brain Res** 1996;109:359–64 (39 ref.)

A 'clock for all seasons' in the human brain. Wehr TA. **Prog Brain Res** 1996;111:321–42 (32 ref.)

Extrageniculostriate vision in humans: investigations with hemispherectomy patients. Wessinger CM, et al. **Prog Brain Res** 1996;112:405–13

Nitric oxide and the developmental remodeling of retinal connections in the brain. Wu HH, et al. **Prog Brain Res** 1996;108:273–86 (81 ref.)

Primary motor cortex influences on the descending and ascending systems. Canedo A. **Prog Neurobiol** 1997 Feb; 51(3):287–335 (531 ref.)

The central adaptation syndrome: psychosocial stress as a trigger for adaptive modifications of brain structure and brain function. Huether G. **Prog Neurobiol** 1996 Apr; 48(6):569–612 (455 ref.)

Implication of ATP receptors in brain functions. Inoue K, et al. **Prog Neurobiol** 1996 Dec;50(5–6):483–92 (73 ref.)

The pharmacology of amino-acid responses in septal neurons. Kumamoto E. **Prog Neurobiol** 1997 Jun;52(3):197–259 (425 ref.)

Physiological role of brain endothelin in the central autonomic control: from neuron to knockout mouse. Kuwaki T, et al. **Prog Neurobiol** 1997 Apr;51(5):545–79 (365 ref.)

The gamma-hydroxybutyrate signalling system in brain: organization and functional implications. Maitre M. **Prog Neurobiol** 1997 Feb;51(3):337–61 (236 ref.)

The microscopic anatomy and physiology of the mammalian saccadic system. Moschovakis AK, et al. **Prog Neurobiol** 1996 Oct;50(2–3):133–254 (699 ref.)

Phosphoinositide signaling in human brain. Pacheco MA, et al. **Prog Neurobiol** 1996 Oct;50(2–3):255–73 (65 ref.)

High-frequency brain activity: its possible role in attention, perception and language processing. Pulvermüller F, et al. **Prog Neurobiol** 1997 Aug;52(5):427–45 (130 ref.)

The unilateral 6-hydroxydopamine lesion model in behavioral brain research. Analysis of functional deficits, recovery and treatments. Schwarting RK, et al. **Prog Neurobiol** 1996 Oct;50(2–3):275–331 (395 ref.)

The vestibular system as a model of sensorimotor transformations. A combined in vivo and in vitro approach to study the cellular mechanisms of gaze and posture stabilization in mammals. Vibert N, et al. **Prog Neurobiol** 1997 Feb;51(3):243–86 (269 ref.)

The spinal cord and its brain: representations and models. To what extent do forebrain mechanisms appear at brainstem spinal cord levels? Windhorst U. **Prog Neurobiol** 1996 Aug;49(5):381–414 (251 ref.)

On the role of recurrent inhibitory feedback in motor control. Windhorst U. **Prog Neurobiol** 1996 Aug;49(6):517–87 (367 ref.)

Intracellular signal modulation: a pivotal role for protein kinase C [see comments] Casabona G. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Apr; 21(3):407–25 (75 ref.). Comment in: Prog Neuropsychopharmacol Biol Psychiatry 1997 Apr;21(3):373–8.

An early lesion of the lateral septal nuclei produces changes in the forced swim test depending on gender. Contreras CM, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec;19(8):1277–84

Inter and intrahemispheric EEG correlation as a function of sleep cycles. Corsi-Cabrera M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):387–405

Protein kinase C, learning and memory: a circular determinism between physiology and behaviour [see comments] Noguès X. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Apr; 21(3):507–29 (68 ref.). Comment in: Prog Neuropsychopharmacol Biol Psychiatry 1997 Apr;21(3):373–8.

Historical review of research on protein kinase C in learning and memory [see comments] Van der Zee EA, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Apr; 21(3):379–406 (117 ref.). Comment in: Prog Neuropsychopharmacol Biol Psychiatry 1997 Apr;21(3):373–8.

A method to determine activation thresholds in fMRI paradigms. Arndt S, et al. **Psychiatry Res** 1997 Aug 8; 75(1):15–22

Visual-spatial-frequency model of cerebral asymmetry: a critical survey of behavioral and electrophysiological studies. Grabowska A, et al. **Psychol Bull** 1996 Nov; 120(3):434–49

Central mediation of the effects of interleukin-1 on social exploration and body weight in mice. Bluthé RM, et al. **Psychoneuroendocrinology** 1997 Jan;22(1):1–11

Anti-sexual and anxiogenic behavioral consequences of corticotropin-releasing factor overexpression are centrally mediated. Heinrichs SC, et al. **Psychoneuroendocrinology** 1997 May;22(4):215–24

Inhibition of GH in maternal separation may be mediated through altered serotonergic activity at 5-HT2A and 5-HT2C receptors. Katz LM, et al. **Psychoneuroendocrinology** 1996 Feb;21(2):219–35

Absence of central cholinergic deficits in ApoE knockout mice. Anderson R, et al. **Psychopharmacology (Berl)** 1997 Jul;132(2):135–44

Localization of word and face recognition memory using topographical EEG. Burgess AP, et al. **Psychophysiology** 1997 Jan;34(1):7–16

Genetic analysis of the resting electroencephalographic power spectrum in human twins. Christian JC, et al. **Psychophysiology** 1996 Sep;33(5):584–91

Emotional expectancy: brain electrical activity associated with an emotional bias in interpreting life events. Chung G, et al. **Psychophysiology** 1996 May;33(3):218–33

Event-related brain potentials in a varied-set memory search task: a reconsideration. Kotchoubey BI, et al. **Psychophysiology** 1996 Sep;33(5):530–40

Human multiunit activity related to attention and preparatory set. Kropotov JD, et al. **Psychophysiology** 1997 Sep; 34(5):495–500

Views on how the electrical activity that the brain generates reflects the functions of different language structures. Kutas M. **Psychophysiology** 1997 Jul;34(4):383–98 (37 ref.)

Frequency domain discriminant analysis of the electroencephalogram. Lind JC, et al. **Psychophysiology** 1997 May;34(3):358–64

Brain activation, affect, and aerobic exercise: an examination of both state-independent and state-dependent relationships. Petruzzello SJ, et al. **Psychophysiology** 1997 Sep;34(5):527–33

P300 topography and modality effects from a single-stimulus paradigm. Polich J, et al. **Psychophysiology** 1996 Nov; 33(6):747–52

The role of the right hemisphere in the physiological and cognitive components of emotional processing. Spence S, et al. **Psychophysiology** 1996 Mar;33(2):112–22

On the utility of P3 latency as an index of mental chronometry. Verleger R. **Psychophysiology** 1997 Mar; 34(2):131–56 (172 ref.)

Diffusion tensor MR imaging of the human brain. Pierpaoli C, et al. **Radiology** 1996 Dec;201(3):637–48

Functional MR imaging during odor stimulation: preliminary data. Yousem DM, et al. **Radiology** 1997 Sep;204(3):833–8

Changing through doing: behavioral influences on the brain. White SA, et al. **Recent Prog Horm Res** 1997;52:455–73; discussion 473–4 (41 ref.)

Aging of the female reproductive system: a window into brain aging. Wise PM, et al. **Recent Prog Horm Res** 1997; 52:279–303; discussion 303–5 (104 ref.)

Angiotensin-related induction of immediate early genes in rat brain. Rowland NE, et al. **Regul Pept** 1996 Oct 8; 66(1–2):25–9 (35 ref.)

Cerebral, tympanic and colonic thermometry in the piglet. Haaland K, et al. **Reprod Fertil Dev** 1996;8(1):125–8

Ventral medullary surface activity during hypoxia in awake and anesthetized goats. Forster HV, et al. **Respir Physiol** 1996 Jan;103(1):45–56

Volume expansion during cardiopulmonary resuscitation reduces cerebral no-reflow. Fischer M, et al. **Resuscitation** 1996 Oct;32(3):227–40 (66 ref.)

The neuroscience of spatial navigation: focus on behavior yields advances. Cain DP, et al. **Rev Neurosci** 1996 Jul–Sep; 7(3):215–31 (140 ref.)

The function of the brain: an hypothesis between science fiction and reality. Croce P. **Riv Biol** 1996;89(1):157–9, 161–3 **(Eng, Ita)**

Influence of increased sodium intake on cerebral excitability. Uluitu M, et al. **Rom J Physiol** 1995 Jan–Dec;32(1–4):11–33

The machinery of thought. Beardsley T. **Sci Am** 1997 Aug; 277(2):78–83

The science of the mind [editorial] Albert MS. **Science** 1997 Mar 14;275(5306):1547

Control of memory formation through regulated expression of a CaMKII transgene. Mayford M, et al. **Science** 1996 Dec 6;274(5293):1678–83

Neuroimmunology. Tracing molecules that make the brain-body connection [news] Pennisi E. **Science** 1997 Feb 14;275(5302):930–1

Brain activation and sentence comprehension [letter; comment] Rapp B, et al. **Science** 1997 Feb 14;

275(5302):912–3. Comment on: Science 1996 Oct 4;274(5284):114–6.
Neurons and reaction times [letter; comment] Richer F, et al. **Science** 1997 Jan 10;275(5297):144; discussion 144–5. Comment on: Science 1996 Oct 18;274(5286):427–30.
How the brain gets rhythm [news; comment] Schechter B. **Science** 1996 Oct 18;274(5286):339–40. Comment on: Science 1996 Oct 4;274(5284):109–13.
Growth factors sculpt the synapse [comment] Schuman E. **Science** 1997 Feb 28;275(5304):1277–8 (16 ref.). Comment on: Science 1997 Feb 28;275(5304):1318–20.
Why can't a computer be more like a brain? [news] Watson A. **Science** 1997 Sep 26;277(5334):1934–6
Getting the brain's attention [news] Wickelgren I. **Science** 1997 Oct 3;278(5335):35–7
Getting a grasp on working memory [news] Wickelgren I. **Science** 1997 Mar 14;275(5306):1580–2
The irreducible perspectives of consciousness. Feinberg TE. **Semin Neurol** 1997 Jun;17(2):85–93 (63 ref.)
Brain–gut interaction. Gué M, et al. **Semin Neurol** 1996 Sep; 16(3):235–43 (83 ref.)
The cerebral regulation of cardiovascular and respiratory functions. Harper RM. **Semin Pediatr Neurol** 1996 Mar; 3(1):13–22 (81 ref.)
Language in dreaming and regional EEG alpha power. Hong CC, et al. **Sleep** 1996 Apr;19(3):232–5
Topographical and temporal patterns of brain activity during the transition from wakefulness to sleep. Wright KP Jr, et al. **Sleep** 1995 Dec;18(10):880–9
Sensory thresholds and neurophysiological correlates of human perceptual learning. Skrandies W, et al. **Spat Vis** 1996;9(4):475–89
Language dominance in the cerebral hemispheres. Hamani C. **Surg Neurol** 1997 Jan;47(1):81–3 (20 ref.)
Excitatory actions of serotonin on GABAergic neurons of the medial septum and diagonal band of Broca. Alreja M. **Synapse** 1996 Jan;22(1):15–27
Metallothioneins in brain—the role in physiology and pathology. Aschner M, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):229–42 (120 ref.)
The Gordon Wilson Lecture. Decade of the brain: advances and hopes at the midpoint. Oxford GS.
Trans Am Clin Climatol Assoc 1996;108:111–26 (48 ref.)
The functional neuroanatomy of episodic memory. Fletcher PC, et al. **Trends Neurosci** 1997 May;20(5):213–8 (52 ref.)
How should brain nuclei be delineated? Consequences for developmental mechanisms and for correlations of area size, neuron numbers and functions of brain nuclei [see comments] Gahr M. **Trends Neurosci** 1997 Feb;20(2):58–62 (38 ref.). Comment in: Trends Neurosci 1997 Aug;20(8):343–4; discussion 345–6. Comment in: Trends Neurosci 1997 Aug;20(8):344; discussion 345–6. Comment in: Trends Neurosci 1997 Aug;20(8):344–5; discussion 345–6. Comment in: Trends Neurosci 1997 Aug;20(8):345; discussion 345–6.
5-HT neurones—bursting with information? [letter; comment] Hajós M, et al. **Trends Neurosci** 1997 Jun; 20(6):244. Comment on: Trends Neurosci 1997 Jan;20(1):38–43.
JAK/STAT eats the fat. Miller RJ, et al.
Trends Neurosci 1996 May;19(5):159–61
Glial–neuronal interactions in non–synaptic areas of the brain: studies in the optic nerve. Ransom BR, et al.
Trends Neurosci 1996 Aug;19(8):352–8 (52 ref.)
Lesion–induced network plasticity in remote brain areas [letter] Witte OW, et al. **Trends Neurosci** 1997 Aug; 20(8):348–9
Component–placement optimization in the brain [letter; comment] Young MP, et al. **Trends Neurosci** 1996 Oct; 19(10):413–5. Comment on: Trends Neurosci 1995 Dec;18(12):522–7.
Signal properties of brain gangliosides. Kalueff AV.
Ukr Biokhim Zh 1996 Mar–Apr;68(2):15–9 (22 ref.)
Differences in quantitated electroencephalographic variables during surgical stimulation of horses anesthetized with isoflurane. Otto KA, et al. **Vet Surg** 1996 May–Jun; 25(3):249–55
Morphological diversity in terminals of W–type retinal ganglion cells at projection sites in cat brain. Chen B, et al. **Vis Neurosci** 1996 May–Jun;13(3):449–60
[The physiology of consciousness] Reiniš S. **Cesk Fysiol** 1996 Sep;45(3):146–53 (45 ref.) (Eng. Abstr.) **(Cze)**
[Physiology of consciousness, feelings and personality] Hemmingsen RP, et al. **Ugeskr Laeger** 1997 Feb 17; 159(8):1067–71 **(Dan)**
[Brain research: the black box is open] Olesen J.
Ugeskr Laeger 1997 Jan 20;159(4):401–2 **(Dan)**
[Unity or mosaic? The development of considering the site–association of bodily functions to the brain (letter; comment)] Praamstra P. **Ned Tijdschr Geneeskd** 1997 Mar 1;141(9):445–6. Comment on: Ned Tijdschr Geneeskd 1996 Dec 21;140(51):2564–9. **(Dut)**
[Five hundred years of facts, theories and hypotheses on cerebral integration: some examples] Buser P. **Clio Med** 1995;33:13–33 **(Fre)**
[Morphologic plasticity as a component of cognition] Prochiantz A. **Encephale** 1997 Jun;23 Spec No 3:15–8 (Eng. Abstr.) **(Fre)**
[Paradoxical human sleep] Maquet P. **Rev Med Liege** 1996 Oct;51(10):632 **(Fre)**
[Cognition and feelings—on the neurobiology of the perception–emotion connection] Emrich HM.
Geburtshilfe Frauenheilkd 1996 Jan;56(1):M6–8 (10 ref.) **(Ger)**
[Sequential analysis of transmission properties of the CNS during consecutive REM periods] Mann K, et al.
Wien Med Wochenschr 1996;146(13–14):283–4 (Eng. Abstr.) **(Ger)**
[Nitric oxide and carbon monoxide—a new generation of neuronal messengers] Gazit V, et al. **Harefuah** 1996 Jun 16;130(12):854–8 (15 ref.) **(Heb)**
[Neural pathways—neural networks] Palkovits M.
Orv Hetil 1996 Jun 9;137(23):1235–43 (49 ref.) (Eng. Abstr.) **(Hun)**
[Cerebral stimulation—methods for invasive and non–invasive brain function tests] Tsuji S.
Fukuoka Igaku Zasshi 1996 Nov;87(11):229–32 (4 ref.) **(Jpn)**
[Aging brains and the dementias] Fukatsu R, et al.
Hokkaido Igaku Zasshi 1996 May;71(3):297–301 (9 ref.) (Eng. Abstr.) **(Jpn)**
[Aging of brain and the maintenance of the function] Mano Y. **Hokkaido Igaku Zasshi** 1996 May;71(3):321–4 (9 ref.) (Eng. Abstr.) **(Jpn)**
[Neurochemical aspect of brain aging—neuronal death and decreased synaptic functions] Nomura Y.
Hokkaido Igaku Zasshi 1996 May;71(3):309–14 (21 ref.) (Eng. Abstr.) **(Jpn)**
[What is brain's senility?] Tashiro K, et al.
Hokkaido Igaku Zasshi 1996 May;71(3):295–6 (2 ref.) (Eng. Abstr.) **(Jpn)**
[Dynamic regulation of the NMDA receptor channel subunits in the central nervous system and their involvement in synaptic plasticity and development] Watanabe M. **Kaibogaku Zasshi** 1996 Oct;71(5):517–22 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Functional MRI using interleaved EPI] Itagaki H, et al.
Nippon Rinsho 1997 Jul;55(7):1666–9 (6 ref.) (Eng. Abstr.) **(Jpn)**
[Evaluation of brain function using somatosensory evoked magnetic fields] Kanno A, et al. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:386–8 (9 ref.) **(Jpn)**
[High–field (3.0T) MR system: advantages in functional analysis] Nakada T. **Nippon Rinsho** 1997 Jul;55(7):1628–32 (9 ref.) (Eng. Abstr.) **(Jpn)**
[A neuropsychological index of aging—data from 9000 elderly people] Kaneko M.
Nippon Ronen Igakkai Zasshi 1996 Nov;33(11):811–5 (Eng. Abstr.) **(Jpn)**
[Influence of social environments on brain aging] Kobayashi S, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):22–6 (Eng. Abstr.) **(Jpn)**
[Brain plasticity and the regulating substances] Miyamoto E, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):157–9 (6 ref.) **(Jpn)**
[Interaction between neurons and astrocytes involved in brain regulatory function as assessed by in vitro brain ischemia models] Watanabe Y, et al. **Nippon Yakurigaku Zasshi** 1997 Mar;109(3):119–28 (35 ref.) (Eng. Abstr.) **(Jpn)**
[Neurotransmission in human brains measured by positron emission tomography (PET)] Yanai K.
Nippon Yakurigaku Zasshi 1997 Jun;109(6):259–70 (33 ref.) (Eng. Abstr.) **(Jpn)**
[Clinical application of functional mapping: the present state of the art and its future prospects: (series 9). Functional brain mapping using dipole tracing] Hayashi N, et al.
No Shinkei Geka 1996 Nov;24(11):977–80 (14 ref.) **(Jpn)**
[Clinical application of functional mapping: the present state of the art and its future prospects: (series 7) magneto–encephalographic study of higher brain function] Mikuni N, et al. **No Shinkei Geka** 1996 Aug;24(8):691–700 (47 ref.) **(Jpn)**
[Right hemispheric dominancy in the auditory evoked magnetic fields for pure–tone stimuli] Kanno A, et al.
No To Shinkei 1996 Mar;48(3):240–4 (Eng. Abstr.) **(Jpn)**
[Functional MRI of the brain] Naruse S.
Rinsho Shinkeigaku 1995 Dec;35(12):1345–50 (10 ref.) (Eng. Abstr.) **(Jpn)**
[The objective and perspective of recording electrical activity from the central nervous system] Yamada T.
Rinsho Shinkeigaku 1995 Dec;35(12):1323–31 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Physiological roles of cyclic nucleotide dependent protein kinases in advanced brain functions] Asahi M, et al.
Tanpakushitsu Kakusan Koso 1997 Feb;42(3 Suppl):403–10 (37 ref.) **(Jpn)**
[Impulse conduction and synaptic transmission] Haga T.
Tanpakushitsu Kakusan Koso 1997 Feb;42(3 Suppl):203–7 (7 ref.) **(Jpn)**
[Gene expression and the regulation in brain (discussion)] Hotta Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):589–607 **(Jpn)**
[Imaging of calcium signaling in brain glial cells and adrenocortical cells] Kawato S, et al.
Tanpakushitsu Kakusan Koso 1997 May;42(7 Suppl):1227–32 (7 ref.) **(Jpn)**
[Signal transduction in the cells] Miyamoto E.
Tanpakushitsu Kakusan Koso 1997 Feb;42(3 Suppl):349–52 (0 ref.) **(Jpn)**
[Protein tyrosine phosphatases in the neural system] Mizuno K, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):446–52 (35 ref.) **(Jpn)**
[Cytokine network in the brain] Sawada M.
Tanpakushitsu Kakusan Koso 1997 Feb;42(3 Suppl):504–11 (49 ref.) **(Jpn)**
[Protein kinase C in neuronal signaling] Suzuki A, et al.
Tanpakushitsu Kakusan Koso 1997 Feb;42(3 Suppl):411–7 (35 ref.) **(Jpn)**
[Neural proteoglycans: neuroglycan C (NGC), neurocan, and phosphacan] Tokita Y, et al.
Tanpakushitsu Kakusan Koso 1997 Feb;42(3 Suppl):567–70 (17 ref.) **(Jpn)**
[Eicosanoids—brain signal transducers] Lachowicz L, et al.
Postepy Biochem 1996;42(4):363–8 (23 ref.) **(Pol)**
[Behavioral and biochemical effects of magnetic brain stimulation and electroshock in rats] Zyss T, et al.
Psychiatr Pol 1996 Jul–Aug;30(4):593–610 (Eng. Abstr.) **(Pol)**
[Localization of brain electric sources in patients with focal epilepsy] Silva C, et al. **Acta Med Port** 1996 Jul–Sep; 9(7–9):219–27 (Eng. Abstr.) **(Por)**
[Changes in bioelectric activity and metabolism of the brain during surgery of the aorta under deep hypothermic arrest of circulation] Mierbekov EM, et al.
Anesteziol Reanimatol 1997 Mar–Apr;(2):45–9 (Eng. Abstr.) **(Rus)**
[Alteration of cognitive functions during extended wakefulness: role of the brain functional asymmetry] Volf NV. **Aviakosm Ekolog Med** 1996;30(5):45–8 (Eng. Abstr.) **(Rus)**
[A statistic approach to interpretation, results processing and hypo thesis testing in experiments on exposuring the human brain to perception of low level signals] Chunovkina AG, et al. **Biofizika** 1997 May–Jun;42(3):718–24 (Eng. Abstr.) **(Rus)**
[Comparative study of methods of active effects on human brain to reveal abilities of low level perception] Li AG. **Biofizika** 1997 May–Jun;42(3):711–7 (Eng. Abstr.) **(Rus)**
[Brain tissue luminescence in the millisecond range] Smirnov GK, et al. **Biofizika** 1996 May–Jun;41(3):744–8 (Eng. Abstr.) **(Rus)**
[The system of subsynaptic units as an universal system–organizing and regulating factor of brain synapses] Semchenko VV, et al. **Biull Eksp Biol Med** 1997 Jul; 124(7):4–12 (82 ref.) **(Rus)**
[The loss of sensitivity of the respiratory system to carbon dioxide during activation of GABAergic brain structures] Tarakanov IA. **Biull Eksp Biol Med** 1997 Apr; 123(4):385–90 **(Rus)**
[Characteristics of inter–hemisphere asymmetry in perceiving visual stimulus volume] Deglin VL, et al.
Dokl Akad Nauk 1996 May;348(3):410–2 **(Rus)**
[Functional asymmetry of the brain and assessment of near and far associative connections] Egorov AIu, et al.
Dokl Akad Nauk 1996 Aug;349(6):838–9 **(Rus)**
[Decrease in brain temperature during paradoxical sleep enables entry into torpor and hibernation] Pastukhov IuF, et al. **Dokl Akad Nauk** 1996 May;348(2):272–4 **(Rus)**
[Role of the right and left hemispheres in depth perception] Dobrovol'skaia NV. **Fiziol Cheloveka** 1996 Nov–Dec; 22(6):131–3 **(Rus)**
[Analysis of EEG resonance reactions in evaluation of the effectiveness of sensory stimulation] Fedotchev AI.
Fiziol Cheloveka 1997 Jul–Aug;23(4):117–23 (67 ref.) **(Rus)**
[Isolation of ultraslow oscillations in brain potentials: method and results] Frolov MV, et al. **Fiziol Cheloveka** 1997 Jul–Aug;23(4):127–9 **(Rus)**
[Formation of electroencephalographic mu– and alpha–rhythms in children during the second to third years of life] Galkina NS, et al. **Fiziol Cheloveka** 1996 Sep–Oct; 22(5):30–6 **(Rus)**
[Spatial structure of intra– and inter–hemispheric connections: factor analysis of the coherence of the resting EEG] Kniazeva MG, et al. **Fiziol Cheloveka** 1996 Sep–Oct; 22(5):37–44 **(Rus)**
[The age–related characteristics of the cerebral organization of verbal activity: an electrophysiological analysis] Kulakovskiĭ IuV, et al. **Fiziol Cheloveka** 1997 May–Jun; 23(3):122–4 **(Rus)**
[Electric activity of the cerebral hemispheres in speech rhythm disorders and their correction] Lokhov MI.
Fiziol Cheloveka 1996 Nov–Dec;22(6):35–42 **(Rus)**
[Mechanisms of magnetic field perception in the human brain] Selitskiĭ GV, et al. **Fiziol Cheloveka** 1996 Jul–Aug; 22(4):66–72 **(Rus)**
[Analysis of the "action result acceptor" using a neural network model] Shul'gina GI, et al. **Fiziol Cheloveka** 1996 Jan–Feb;22(1):134–7 **(Rus)**
[Structure of spatially coherent relationships between brain potentials in various frequency bands of the EEG] Tsitseroshin MN, et al. **Fiziol Cheloveka** 1996 Jan–Feb; 22(1):11–21 **(Rus)**
[The function of the brain structures in rabbits under the action of hyperbaric helium and nitrogen–oxygen mixtures] Sledkov AIu, et al. **Fiziol Zh** 1995 Sep–Dec;41(5–6):50–6 (Eng. Abstr.) **(Rus)**
[The interaction of GABA–A receptors with the serotoninergic system of the brain in regulating the testosterone level by the negative feedback mechanism] Amikishieva AV, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov;82(10–11):84–90 (Eng. Abstr.) **(Rus)**
[Metal microelectrodes and their modules for research on the spatial organization of the activity in screened brain structures] Chebkasov SA. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):120–4 **(Rus)**

[The interaction of the renin-angiotensin and enkephalinergic systems of the brain and hypophysis in normal rats and in experimental pathology of the hypothalamo-hypophyseal-adrenal complex] Kalinskaia LN, et al. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):60-4 (Eng. Abstr.) **(Rus)**

[The maximal duration of respiratory arrest during hypothermia in white rats which it is possible to reverse by an increase in brain temperature] Slepchuk NA. **Fiziol Zh Im I M Sechenova** 1996 Oct-Nov; 82(10-11):115-21 (Eng. Abstr.) **(Rus)**

[Idea of feedback in instrumental techniques of studying the central nervous system] Matveev EV. **Med Tekh** 1996 Nov-Dec;(6):12-4 **(Rus)**

[The participation of the epiphysis in the anti-stress protection of the brain] Arushanian EB. **Usp Fiziol Nauk** 1996 Jul-Sep;27(3):31-50 (153 ref.) (Eng. Abstr.) **(Rus)**

[Scientists of the countries of the basin of the Sea of Japan (Japan-Russia-China-Korea) discuss the fundamental problems of the brain and epilepsy (Rim Japanese Sea Symposium: "Shining a light on epilepsy", Japan, Yonago; November 15-17, 1996)] Chepurnova NE, et al. **Usp Fiziol Nauk** 1997 Apr-Jun;28(2):107-11 **(Rus)**

[The brain dopaminergic systems: receptor heterogeneity, functional role and pharmacological regulation] Raevskii KS, et al. **Usp Fiziol Nauk** 1996 Oct-Dec;27(4):3-29 (144 ref.) (Eng. Abstr.) **(Rus)**

[The action of a magnetic field on the bioelectrical activity of the brain in healthy subjects and epilepsy patients] Karlov VA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(2):54-8 (Eng. Abstr.) **(Rus)**

[A coaxial bipolar insulated electrode for the identification of nerve tissue] Shchekut'ev GA, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul-Sep;(3):41-4 **(Rus)**

[The role of the cholinergic system of the brain in the mechanisms of dissociated learning] Azarashvili AA. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):309-16 (Eng. Abstr.) **(Rus)**

[Off and on stimulation exerts a contrary action on the functional status of the human brain] Chebkasov SA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):597-9 **(Rus)**

[The dynamic nature and age-related dependence of functional brain organization in attention] Dubrovinskaia NV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar-Apr;47(2):196-208 (Eng. Abstr.) **(Rus)**

[A comparison of the restructurings in the spatial-temporal organization of the cortical potentials from the human cerebral hemispheres with the EEG frequency characteristics during the solving of a cognitive task] Iakovenko IA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):469-78 (Eng. Abstr.) **(Rus)**

[The cerebral basis of subjective experiences: the hypothesis of information synthesis] Ivanitskiĭ AM. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):241-52 (41 ref.) (Eng. Abstr.) **(Rus)**

[An evaluation of the high-frequency components of the brain's electrical activity by using inhomogeneity indices] Kozlov MK, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan-Feb; 47(1):58-69 (Eng. Abstr.) **(Rus)**

[The effect of the repeated experience of victories and defeats in social conflicts on the function of the brain serotoninergic system in male mice] Kudriavtseva NN, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec; 46(6):1088-96 (Eng. Abstr.) **(Rus)**

[The adaptive regulation of the nonlinear dynamics of brain electrical activity] Mogilevskiĭ AIa, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan-Feb; 47(1):147-58 (Eng. Abstr.) **(Rus)**

[Activation of the brain and consciousness] Rusalova MN. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan-Feb; 47(1):22-31 (Eng. Abstr.) **(Rus)**

[The brain mechanisms of emotions] Simonov PV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar-Apr; 47(2):320-8 (21 ref.) (Eng. Abstr.) **(Rus)**

[Human positive brain potentials before visually evoked saccades] Slavutskaia MV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul-Aug; 46(4):795-9 **(Rus)**

[An extensive system of explicit memory] Reinoso Suárez F. **An R Acad Nac Med (Madr)** 1996;113(3):565-77 (61 ref.) **(Spa)**

[Neurobiology of the numinous] Rubia Vila FJ. **An R Acad Nac Med (Madr)** 1996;113(2):513-27; discussion 528-31 **(Spa)**

[New clinical applications of brain evoked potentials: mismatch negativity (MMN)] Escera C. **Med Clin (Barc)** 1997 May 10;108(18):701-8 (128 ref.) **(Spa)**

[Dietetics and neurology] Castillo J. **Rev Neurol** 1996 Apr; 24(128):387-8 **(Spa)**

[The combined application of visual evoked potentials and the quantified electroencephalogram improve discrimination of cerebral maturity] Mañas S, et al. **Rev Neurol** 1997 Aug;25(144):1181-6 (Eng. Abstr.) **(Spa)**

[Follow-up study of the evolution of the quantitative EEG in intraventricular infusion of nerve growth factor in an aged baboon] Morales-Chacón L, et al. **Rev Neurol** 1997 Jun;25(142):850-5 (Eng. Abstr.) **(Spa)**

[Hormones regulate eating behavior of the rat. Mechanisms of human food intake are probably the same] Uvnäs-Moberg K. **Lakartidningen** 1996 Nov 13; 93(46):4144, 4147-9 (25 ref.) **(Swe)**

PHYSIOPATHOLOGY

In vivo estimation of water content in cerebral white matter of brain tumour patients and normal individuals: towards a quantitative brain oedema definition. Andersen C. **Acta Neurochir (Wien)** 1997;139(3):249-55; discussion 255-6

Rapid natriuresis and preventive hypervolaemia for symptomatic vasospasm after subarachnoid haemorrhage. Okuchi K, et al. **Acta Neurochir (Wien)** 1996;138(8):951-6; discussion 956-7

Quantified-EEG in normal aging and dementias. d'Onofrio F, et al. **Acta Neurol Scand** 1996 May;93(5):336-45

Risk factors and leukoaraiosis in stroke patients. Hénon H, et al. **Acta Neurol Scand** 1996 Aug;94(2):137-44

Vibrameter testing facilitates the diagnosis of uremic and alcoholic polyneuropathy. Hilz MJ, et al. **Acta Neurol Scand** 1995 Dec;92(6):486-90

Correlation between brain MRI lesion volume and disability in patients with multiple sclerosis. Mammi S, et al. **Acta Neurol Scand** 1996 Aug;94(2):93-6

Patterns of neuropsychological impairment in mild dementia: a comparison between Alzheimer's disease and multi-infarct dementia. Padovani A, et al. **Acta Neurol Scand** 1995 Dec;92(6):433-42

Multimodal evoked potentials in HIV-1-seropositive patients: relationship between the immune impairment and the neurophysiological function. Pierelli F, et al. **Acta Neurol Scand** 1996 Apr;93(4):266-71

Heart rate variability, norepinephrine and ECG changes in subarachnoid hemorrhage patients. Svigelj V, et al. **Acta Neurol Scand** 1996 Aug;94(2):120-6

Pathogenesis of irradiation-induced cognitive dysfunction. Abayomi OK. **Acta Oncol** 1996;35(6):659-63 (48 ref.)

An international symposium on neonatal hypoglycemia: thirty years later. Does it injure the neonatal brain? Cornblath M, et al. **Acta Paediatr Jpn** 1997 Apr;39 Suppl 1:S1-6 (20 ref.)

Neonatal hypoglycemia 30 years later: does it injure the brain? Historical summary and present challenges. Cornblath M. **Acta Paediatr Jpn** 1997 Apr;39 Suppl 1:S7-11 (43 ref.)

Tryptophan and secondary anorexia. Fanelli FR, et al. **Adv Exp Med Biol** 1996;398:545-9 (19 ref.)

Inflammatory reactions at the blood-endothelial interface in acute stroke. Hallenbeck JM. **Adv Neurol** 1996;71:281-97; discussion 297-300 (151 ref.)

Epilepsy: structural or functional? [letter; comment] Jack CR Jr. **AJNR Am J Neuroradiol** 1996 Feb;17(2):246. Comment on: AJNR Am J Neuroradiol 1996 Feb;17(2):243.

Development and application of a physiologically based pharmacokinetic model for ethanol in the mouse. Pastino GM, et al. **Alcohol Alcohol** 1996 Jul;31(4):365-74

Cerebral dysfunction in chronic alcoholism: role of alcoholic liver disease. Butterworth RF. **Alcohol Alcohol Suppl** 1994; 2:259-65 (40 ref.)

A comparative neuropsychological approach to alcoholism and the brain. Oscar-Berman M. **Alcohol Alcohol Suppl** 1994;2:281-9 (58 ref.)

Characterization of the mu and delta opioid receptors in the brain of the C57BL/6 and DBA/2 mice, selected for their differences in voluntary ethanol consumption. de Waele JP, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):754-62

The neurobiology of ethanol-opioid interactions in ethanol reinforcement. Froehlich JC. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):181A-186A

NIAAA 25th anniversary: advances in the neuroscience of alcohol. Gordis E. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):38A-44A

Effects of prenatal ethanol exposure on voltage-dependent calcium entry into neonatal whole brain-dissociated neurons. Lee YH, et al. **Alcohol Clin Exp Res** 1996 Aug; 20(5):921-8

Tetrahydroisoquinolines and alcoholism: where are we today? Myers RD. **Alcohol Clin Exp Res** 1996 May; 20(3):498-500 (11 ref.)

Serotonin2C receptors and serotonin2C receptor-mediated phosphoinositide hydrolysis in the brain of alcohol-preferring and alcohol-nonpreferring rats. Pandey SC, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):1038-42

Strategies for revealing the multiple determinants of drinking: pharmacological and environmental manipulations. Tomkins DM. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):125A-127A

Central serotonergic lesions increase voluntary alcohol consumption in Sprague Dawley rats: moderation by long-term ethanol administration. Wang JY, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1252-9

The role of neurosteroids in alcohol-related behaviors: new studies from the laboratory and clinic. Zimmerberg B. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):250A-255A

Quantitative in vivo 31P magnetic resonance spectroscopy of Alzheimer disease. Gonzalez RG, et al. **Alzheimer Dis Assoc Disord** 1996 Spring;10(1):46-52

Adult fragile X syndrome: neuropsychology, brain anatomy, and metabolism. Schapiro MB, et al. **Am J Med Genet** 1995 Dec 18;60(6):480-93

Evidence for visual imagery deficits in persons with mental retardation. Courbois Y. **Am J Ment Retard** 1996 Sep; 101(2):130-48

Neurobiology of prenatal influences on long-term psychomotor development in offspring of diabetic mothers [letter; comment] Friedman EH. **Am J Obstet Gynecol** 1996 Aug;175(2):512-3. Comment on: Am J Obstet Gynecol 1995 Dec;173(6):1753-8.

Role of the brain in energy balance and obesity [editorial] Levin BE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R491-500 (143 ref.)

Lack of peripheral modulation of cardiovascular central oscillatory autonomic activity during apnea in humans. Passino C, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H123-9

Effect of stepped hypoglycemia on regional cerebral blood flow response to physiological brain activation. Powers WJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H554-9

Mechanism of attenuated thirst in aging: role of central volume receptors. Stachenfeld NS, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R148-57

Psychotropic drug action. Klein DF. **Am J Psychiatry** 1997 Mar;154(3):440-1

Brain SPECT findings and aggressiveness. Amen DG, et al. **Ann Clin Psychiatry** 1996 Sep;8(3):129-37

How the brain processes emotional information. Armony JL, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:259-70 (87 ref.)

The neurobiology of emotionally influenced memory. Implications for understanding traumatic memory. Cahill L. **Ann N Y Acad Sci** 1997 Jun 21;821:238-46 (41 ref.)

Electrophysiological abnormalities in PTSD. Lewine JD, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:508-11

The psychobiology of traumatic memory. Clinical implications of neuroimaging studies. Van Der Kolk BA, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:99-113 (58 ref.)

Role of central angiotensin II in interleukin-1-induced fever in rats. Watanabe T, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:314-5

Activation mapping in essential tremor with functional magnetic resonance imaging. Bucher SF, et al. **Ann Neurol** 1997 Jan;41(1):32-40

Cognitive and brain magnetic resonance imaging findings in adrenomyeloneuropathy. Edwin D, et al. **Ann Neurol** 1996 Oct;40(4):675-8

Trihexyphenidyl withdrawal encephalopathy [letter] Johkura K, et al. **Ann Neurol** 1997 Jan;41(1):133-4

Diagnostic guidelines in central nervous system Whipple's disease [see comments] Louis ED, et al. **Ann Neurol** 1996 Oct;40(4):561-8. Comment in: Ann Neurol 1997 Apr;41(4):560-1. Comment in: Ann Neurol 1997 Apr;41(4):561-2.

CNS distribution of free-radical inactivating enzymes in amyotrophic lateral sclerosis [letter] Mitchell JD, et al. **Ann Neurol** 1996 Oct;40(4):689-90

Circadian rhythms: basic neurobiology and clinical applications. Moore RY. **Annu Rev Med** 1997;48:253-66 (59 ref.)

Magnetic source imaging evidence of sex differences in cerebral lateralization in schizophrenia. Reite M, et al. **Arch Gen Psychiatry** 1997 May;54(5):433-40

Crossed aphasia. Functional brain imaging with PET or SPECT. Bakar M, et al. **Arch Neurol** 1996 Oct; 53(10):1026-32 (36 ref.)

Prevalence and neurobehavioral correlates of pathological laughing and crying in multiple sclerosis. Feinstein A, et al. **Arch Neurol** 1997 Sep;54(9):1116-21

Cerebral hemispheric lateralization in cardiac autonomic control. Yoon BW, et al. **Arch Neurol** 1997 Jun;54(6):741-4

Remodeling of the brain post myocardial infarction: focus on central ANF. Ertl G, et al. **Basic Res Cardiol** 1997 Apr; 92(2):82-4 (11 ref.)

The neurophysiological basis of motor imagery. Decety J. **Behav Brain Res** 1996 May;77(1-2):45-52 (60 ref.)

Is brain plasticity preserved during aging and in Alzheimer's disease? Mirmiran M, et al. **Behav Brain Res** 1996 Jun; 78(1):43-8 (77 ref.)

Application of the ferromagnetic transduction model to D.C. and pulsed magnetic fields: effects on epileptogenic tissue and implications for cellular phone safety. Dobson J, et al. **Biochem Biophys Res Commun** 1996 Oct 23; 227(3):718-23

Neurophysiological changes associated with psychiatric symptoms in HIV-infected individuals without AIDS. Baldeweg T, et al. **Biol Psychiatry** 1997 Feb 15; 41(4):474-87

Neuroscience: where is it heading? Some reflections on the future of brain research at the end of the second millenium [editorial] Marazziti D, et al. **Biol Psychiatry** 1997 Jan 15; 41(2):127-9

Depression as a dynamical disease. Pezard L, et al. **Biol Psychiatry** 1996 Jun 15;39(12):991-9

Topographic abnormalities of P3 in schizotypal personality disorder. Salisbury DF, et al. **Biol Psychiatry** 1996 Aug 1;40(3):165-72

The anatomy of mood disorders--review of structural neuroimaging studies. Soares JC, et al. **Biol Psychiatry** 1997 Jan 1;41(1):86-106 (190 ref.)

Interstitial fluid pressure in intracranial tumours in patients and in rodents. Boucher Y, et al. **Br J Cancer** 1997; 75(6):829-36

Longitudinal cognitive, electroencephalographic and morphological brain changes in ageing and Alzheimer's disease. Forstl H, et al. **Br J Psychiatry** 1996 Mar;

168(3):280–6
EEG coherence and syndromes in schizophrenia. Norman RM, et al. **Br J Psychiatry** 1997 May;170:411–5
Neuropsychology of schizophrenia, what are the implications of intellectual and experiential abnormalities for the neurobiology of schizophrenia? Frith C. **Br Med Bull** 1996 Jul;52(3):618–26 (28 ref.)
Functional imaging--schizophrenia. Liddle PF. **Br Med Bull** 1996 Jul;52(3):486–94 (28 ref.)
Neurolinguistic and follow-up study of an unusual pattern of recovery from bilingual subcortical aphasia. Aglioti S, et al. **Brain** 1996 Oct;119 (Pt 5):1551–64
Central motor processing in Huntington's disease. A PET study. Bartenstein P, et al. **Brain** 1997 Sep;120 (Pt 9):1553–67
Altered patterns of cerebral activity during speech and language production in developmental stuttering. An H2(15)O positron emission tomography study. Braun AR, et al. **Brain** 1997 May;120 (Pt 5):761–84
Mirror movements in X-linked Kallmann's syndrome. II. A PET study. Krams M, et al. **Brain** 1997 Jul;120 (Pt 7):1217–28
Mirror movements in X-linked Kallmann's syndrome. I. A neurophysiological study. Mayston MJ, et al. **Brain** 1997 Jul;120 (Pt 7):1199–216
Paradoxical functional facilitation in brain-behavior research: a critical review [letter; comment] Ovsiew F. **Brain** 1997 Jul;120 (Pt 7):1261–4. Comment on: Brain 1996 Oct;119 (Pt 5):1775–90.
The assessment of limb apraxia: an investigation of task effects and their cause. Belanger SA, et al. **Brain Cogn** 1996 Dec; 32(3):384–404
Focal cortical atrophy syndromes. Black SE. **Brain Cogn** 1996 Jul;31(2):188–229 (207 ref.)
Special issue on inhibitory mechanisms in brain and cognition. Clark JM. **Brain Cogn** 1996 Feb;30(1):1–3
What is developmental dyspraxia? Dewey D. **Brain Cogn** 1995 Dec;29(3):254–74 (80 ref.)
Auditory vigilance in aphasic individuals: detecting nonlinguistic stimuli with full or divided attention. Erickson RJ, et al. **Brain Cogn** 1996 Mar;30(2):244–53
Clinical and neuropathological findings in Lewy body dementias. Galasko D, et al. **Brain Cogn** 1996 Jul; 31(2):166–75
Long-term perceptual priming in transient global amnesia. Kapur N, et al. **Brain Cogn** 1996 Jun;31(1):63–74
White matter disease and dementia. Rao SM. **Brain Cogn** 1996 Jul;31(2):250–68 (161 ref.)
Hypoxic and ischemic disorders of infants and children. Lecture for 38th meeting of Japanese Society of Child Neurology, Tokyo, Japan, July 1996. Johnston MV. **Brain Dev** 1997 Jun;19(4):235–9 (50 ref.)
Crossed aphasia and related anomalies of cerebral organization: case reports and a genetic hypothesis. Alexander MP, et al. **Brain Lang** 1996 Nov;55(2):213–39 (120 ref.)
Fricative production in aphasia: effects of speaking rate. Baum SR. **Brain Lang** 1996 Feb;52(2):328–41
Dual processing of open- and closed-class words. Biassou N, et al. **Brain Lang** 1997 May;57(3):360–73
Does cognition in the disconnected right hemisphere require right hemisphere possession of language? Bogen JE. **Brain Lang** 1997 Mar;57(1):12–21 (72 ref.)
The effects of right-hemisphere brain damage on patients' use of terms of personal reference. Brownell H, et al. **Brain Lang** 1997 Mar;57(1):60–79
Optic aphasia: a case with spared action naming and associated disorders. Campbell R, et al. **Brain Lang** 1996 May;53(2):183–221
Subcortical aphasia: still a useful concept? Cappa SF. **Brain Lang** 1997 Jul;58(3):424–6; discussion 436–58
Subcortical aphasia and the problem of attributing functional responsibility to parts of distributed brain processes. Carver CF, et al. **Brain Lang** 1997 Jul;58(3):427–35; discussion 436–58
Can the right hemisphere speak? Code C. **Brain Lang** 1997 Mar;57(1):38–59 (85 ref.)
Subcortical aphasia and the problem of attributing functional responsibility to parts of distributed brain processes. Craver CF, et al. **Brain Lang** 1997 Jul;58(3):427–35; discussion 436–58
Neuropsychiatric manifestations of right hemisphere lesions. Cummings JL. **Brain Lang** 1997 Mar;57(1):22–37 (85 ref.)
Picture confrontation oral naming: performance differences between aphasics and normals. Deloche G, et al. **Brain Lang** 1996 Apr;53(1):105–20
Subcortical aphasia(s): a controversial and promising topic. Démonet JF. **Brain Lang** 1997 Jul;58(3):410–7; discussion 436–58
Landau-Kleffner syndrome: much more than aphasia and epilepsy. Eslava-Cobos J, et al. **Brain Lang** 1997 Apr; 57(2):215–24
Recovery from deep alexia to phonological alexia: points on a continuum. Friedman RB. **Brain Lang** 1996 Jan; 52(1):114–28
Tense and agreement in agrammatic production: pruning the syntactic tree. Friedmann N, et al. **Brain Lang** 1997 Feb 15;56(3):397–425
Speech prosody in affective contexts in Thai patients with right hemisphere lesions. Gandour J, et al. **Brain Lang** 1995 Dec;51(3):422–43
Adynamic aphasia: a transcortical motor aphasia with defective semantic strategy formation. Gold M, et al. **Brain Lang** 1997 May;57(3):374–93
Double dissociation of semantic categories in Alzheimer's disease. Gonnerman LM, et al. **Brain Lang** 1997 Apr; 57(2):254–79
Competitive inhibition models of lexical-semantic processing: experimental evidence. Gurd JM, et al. **Brain Lang** 1996 Sep;54(3):414–33
Introduction. The investigation of lexical semantic representation in Alzheimer's disease. Henderson VW. **Brain Lang** 1996 Aug;54(2):179–83 (13 ref.)
Comprehension of wh-questions in two Broca's aphasics. Hickok G, et al. **Brain Lang** 1996 Feb;52(2):314–27
The use of contextual information by right brain-damaged individuals in the resolution of ambiguous pronouns. Leonard CL, et al. **Brain Lang** 1997 May;57(3):309–42
The use of contextual information related to general world knowledge by right brain-damaged individuals in pronoun resolution. Leonard CL, et al. **Brain Lang** 1997 May; 57(3):343–59
Production and perception of word tones (pitch accents) in patients with left and right hemisphere damage. Moen I, et al. **Brain Lang** 1996 May;53(2):267–81
Subcortical aphasia [see comments] Nadeau SE, et al. **Brain Lang** 1997 Jul;58(3):355–402; discussion 418–23 (215 ref.). Comment in: Brain Lang 1997 Jul;58(3):403–9; discussion 436–58.
Unilateral brain damage, prosodic comprehension deficits, and the acoustic cues to prosody. Pell MD, et al. **Brain Lang** 1997 Apr;57(2):195–214
The ability to perceive and comprehend intonation in linguistic and affective contexts by brain-damaged adults. Pell MD, et al. **Brain Lang** 1997 Mar;57(1):80–99
Lateralization of affective prosody in brain and the callosal integration of hemispheric language functions. Ross ED, et al. **Brain Lang** 1997 Jan;56(1):27–54
The psychological construct of word fluency. Ruff RM, et al. **Brain Lang** 1997 May;57(3):394–405
Theory of mind and pragmatic understanding following right hemisphere damage. Siegal M, et al. **Brain Lang** 1996 Apr; 53(1):40–50
Speech-language outcomes of hemispherectomy in children and young adults. Stark RE, et al. **Brain Lang** 1995 Dec; 51(3):406–21
The gradual deterioration of syntax and semantics in a patient with progressive aphasia. Tyler LK, et al. **Brain Lang** 1997 Feb 15;56(3):426–76
Mechanisms of and misconceptions about subcortical aphasia [comment] Wallesch CW, et al. **Brain Lang** 1997 Jul; 58(3):403–9; discussion 436–58. Comment on: Brain Lang 1997 Jul;58(3):355–402.
The interpretation of sentence ambiguity in patients with unilateral focal brain surgery. Zaidel DW, et al. **Brain Lang** 1995 Dec;51(3):458–68
Changes of forearm EMG and cerebral evoked potentials following sudden muscle stretch during isometric contractions in patients with Parkinson's disease. Aminoff MJ, et al. **Brain Res** 1997 May 23;757(2):254–9
Starvation and dehydration attenuate CNS oxygen toxicity in rats. Bitterman N, et al. **Brain Res** 1997 Jun 27; 761(1):146–50
Alterations of central noradrenergic transmission in Ts65Dn mouse, a model for Down syndrome. Dierssen M, et al. **Brain Res** 1997 Feb 28;749(2):238–44
Regional assessment of tissue oxygenation and the temporal evolution of hemodynamic parameters and water diffusion during acute focal ischemia in rat brain. Dijkhuizen RM, et al. **Brain Res** 1997 Mar 7;750(1–2):161–70
Hypothyroidism coordinately and transiently affects myelin protein gene expression in most rat brain regions during postnatal development. Ibarrola N, et al. **Brain Res** 1997 Mar 28;752(1–2):285–93
Acute liver failure and hyperammonemia increase peripheral-type benzodiazepine receptor binding and pregnenolone synthesis in mouse brain. Itzhak Y, et al. **Brain Res** 1995 Dec 24;705(1–2):345–8
Neuro-glial neurotrophic interaction in the S-100 beta retarded mutant mouse (Polydactyly Nagoya). III. Transplantation study. Ueda S, et al. **Brain Res** 1996 Oct 28;738(1):15–23
Riluzole reduces brain lesions and improves neurological function in rats after a traumatic brain injury. Wahl F, et al. **Brain Res** 1997 May 9;756(1–2):247–55
Central actions of corticotropin releasing factor on sensori-autonomic processing in normotensive and hypertensive rats. Youngblood K, et al. **Brain Res** 1996 Sep 23;734(1–2):175–85
Glucose metabolism and protective biochemical mechanisms in a rat brain affected by kaolin-induced hydrocephalus. Hidaka M, et al. **Childs Nerv Syst** 1997 Apr;13(4):183–8
Brain alterations in the classical form of congenital muscular dystrophy. Clinical and neuroimaging follow-up of 12 cases and correlation with the expression of merosin in muscle. Trevisan CP, et al. **Childs Nerv Syst** 1996 Oct;12(10):604–10
Cyclosporine may affect improvement of cognitive brain function after successful cardiac transplantation [see comments] Grimm M, et al. **Circulation** 1996 Sep 15; 94(6):1339–45. Comment in: Circulation 1996 Sep 15;94(6):1209–11.
Substance use disorder exacerbates brain electrophysiological abnormalities in a psychiatrically-ill population [published erratum appears in Clin Electroencephalogr 1997 Jan;28(1):63] Braverman ER, et al. **Clin Electroencephalogr** 1996;27(4 Suppl):5–27
Quantitative EEG and substance abuse [editorial] Drake ME Jr. **Clin Electroencephalogr** 1996;27(4 Suppl):3–4
Periodic complexes, absence-like status and suppression-burst pattern in coma following cardiorespiratory arrest. Ganji SS, et al. **Clin Electroencephalogr** 1997 Apr;28(2):76–86
Effect of central endogenous angiotensin II on sympathetic activation induced by hypoxia. Gaudet EA, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):913–23
Evidence against a central pressor mechanism for adrenocortical steroid hypertension in sheep. Tresham JJ, et al. **Clin Exp Hypertens** 1996 Aug;18(6):831–49
Neurobiology of addiction. Wise RA. **Curr Opin Neurobiol** 1996 Apr;6(2):243–51 (96 ref.)
The effects of seizures on the brain. Lynch MW, et al. **Curr Opin Neurol** 1996 Apr;9(2):97–102
Relations between symptomatology and brain function in dementias: double-blind, placebo-controlled, clinical and EEG/ERP mapping studies with nicergoline. Saletu B, et al. **Dement Geriatr Cogn Disord** 1997;8 Suppl 1:12–21
Cerebral metabolic changes in Alzheimer's disease: neurobehavioral patterns. Blesa R, et al. **Dementia** 1996 Sep-Oct;7(5):239–45 (51 ref.)
Intact brain serotonin system in vascular dementia. Hansson G, et al. **Dementia** 1996 Jul-Aug;7(4):196–200
Magneto-encephalographical analysis of focal cortical heterotopia. Minami T, et al. **Dev Med Child Neurol** 1996 Oct;38(10):945–9
Contractile activity of the uterus prior to labor alters the temporal organization of spontaneous motor activity in the fetal sheep. Robertson SS, et al. **Dev Psychobiol** 1996 Dec; 29(8):667–83
The measurement of cognitive function during acute hypoglycaemia: experimental limitations and their effect on the study of hypoglycaemia unawareness. Heller SR, et al. **Diabet Med** 1996 Jul;13(7):607–15 (72 ref.)
Subclinical brain dysfunction in patients with diabetic ketoacidosis [letter] Eisenhuber E, et al. **Diabetes Care** 1996 Dec;19(12):1455–6
Impaired brain processing in noise-induced tinnitus patients as measured by auditory and visual event-related potentials. Attias J, et al. **Ear Hear** 1996 Aug;17(4):327–33
Neurogenic stuttering: further corroboration of site of lesion. Heuer RJ, et al. **Ear Nose Throat J** 1996 Mar;75(3):161–8
Regional correlations between the EEG and oxygen metabolism in dementia of Alzheimer's type. Buchan RJ, et al. **Electroencephalogr Clin Neurophysiol** 1997 Sep; 103(3):409–17
Ictal patterns in temporal lobe epilepsy recorded by epidural screw electrodes. Drury I, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):167–74
Event-related brain potentials during semantic categorization in normal aging and senile dementia of the Alzheimer's type. Iragui V, et al. **Electroencephalogr Clin Neurophysiol** 1996 Sep; 100(5):392–406
Technical implementation and clinical findings/results of monitoring oxygen saturation in patients referred for long-term EEG monitoring. Ives JR, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov;99(5):432–9
Atypical triphasic waves associated with the use of pentobarbital. Lancman ME, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar; 102(3):175–7
Relationship of interictal epileptiform discharges to sleep depth in partial epilepsy. Malow BA, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan;102(1):20–6
Prognostic value of neonatal electroencephalography in premature newborns less than 33 weeks of gestational age. Marret S, et al. **Electroencephalogr Clin Neurophysiol** 1997 Mar;102(3):178–85
The evolution of complexity in human brain development: an EEG study. Meyer-Lindenberg A. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 99(5):405–11
Sternocleidomastoid muscle responses to transcranial magnetic stimulation in patients with cervical dystonia. Odergren T, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb;105(1):44–52
The significance of ictal depth EEG patterns in patients with temporal lobe epilepsy. Park YD, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov;99(5):412–5
Periodic electroencephalographic pattern in subacute sclerosing panencephalitis modified by preexisting damaged cerebral hemisphere. Santoshkumar B, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov;99(5):440–3
Cerebral responses elicited by stimulation of the vesico-urethral junction (VUJ) in diabetics. Sarica Y, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jan; 100(1):55–61
Giant central N20–P22 with normal area 3b N20–P20: an argument in favour of an area 3a generator of early median nerve cortical SEPs? Valeriani M, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan;104(1):60–7
Unusual variants of subclinical rhythmic electrographic discharge of adults (SREDA). Westmoreland BF, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jan;102(1):1–4
SEF-MEG localization of somatosensory cortex as a method for presurgical assessment of functional brain area.

Ganslandt O, et al.
Electroencephalogr Clin Neurophysiol Suppl 1996;46:209–13
New concepts of brain source imaging and localization. Scherg M, et al.
Electroencephalogr Clin Neurophysiol Suppl 1996;46:127–37
Cerebral functional deficit in cardiac surgical patients investigated with P300 and neuropsychological tests. Toner I, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996; 46:243–51
Effect of seizures and epileptiform discharges on cognitive function. Aldenkamp AP. **Epilepsia** 1997;38 Suppl 1:S52–5 (40 ref.)
Left hemispheric dominance of epileptiform discharges. Dean AC, et al. **Epilepsia** 1997 Apr;38(4):503–5
Epilepsy in the developing brain: lessons from the laboratory and clinic. Holmes GL. **Epilepsia** 1997 Jan;38(1):12–30 (252 ref.)
Proceedings of the 3rd WONOEP Symposium. Tromso, Norway, June 1993. **Epilepsy Res Suppl** 1996;12:1–385
Clinical evidence for the progressive nature of epilepsy. Engel J Jr. **Epilepsy Res Suppl** 1996;12:9–20 (55 ref.)
Experimental evidence contrasting the concept of progressive epileptogenesis. Fariello RG. **Epilepsy Res Suppl** 1996; 12:3–8 (28 ref.)
Metabolic and electrophysiological effects of focal epileptic discharges on surrounding and remote brain tissue in the rat cortex. Witte OW, et al. **Epilepsy Res Suppl** 1996; 12:157–62
A search for association between schizophrenia and dopamine-related alleles. Jönsson E, et al.
Eur Arch Psychiatry Clin Neurosci 1996;246(6):297–304
Event-related potential P300 microstate topography during visual one- and two-dimensional tasks in chronic schizophrenics. Kochi K, et al.
Eur Arch Psychiatry Clin Neurosci 1996;246(6):288–96
Abnormal topography of EEG microstates in Gilles de la Tourette syndrome. Stevens A, et al.
Eur Arch Psychiatry Clin Neurosci 1996;246(6):310–6
Topographic mapping of brain electrical activity in children with food-induced attention deficit hyperkinetic disorder. Uhlig T, et al. **Eur J Pediatr** 1997 Jul;156(7):557–61
Silent cerebral microembolism in asymptomatic and symptomatic carotid artery stenoses of low and high degree. Orlandi G, et al. **Eur Neurol** 1997;38(1):39–43
Seizures and proto-oncogene expression of fos in the brain of adult genetically epilepsy-prone rats. Clough RW, et al. **Exp Neurol** 1997 Aug;146(2):341–53
Hepatic branch vagotomy enhances feeding in response to centrally elicited glucose deprivation in rats. Rossi R, et al. **Exp Physiol** 1996 Jan;81(1):119–29
White matter injury in amyotrophic lateral sclerosis (ALS). Rafałowska J, et al. **Folia Neuropathol** 1996;34(2):87–91
An ultrastructural and molecular perspective of the pathological hallmarks of Alzheimer's disease. Sobow T. **Folia Neuropathol** 1996;34(1):55–62 (74 ref.)
Brain vascular changes in the case of primary antiphospholipid syndrome. Szpak GM, et al.
Folia Neuropathol 1996;34(2):92–6
Brain SPECT and stroke prognosis. Alexandrov AV, et al. **Funct Neurol** 1996 Jul–Aug;11(4):167–71, 175–8 (55 ref.)
Glucocorticoid hormone, aging brain and dementia. Angelucci L. **Funct Neurol** 1997 May–Aug;12(3–4):167–73
Cognitive function at menopause: neuroendocrine implications for the study of the aging brain. Costa A, et al. **Funct Neurol** 1997 May–Aug;12(3–4):175–80 (30 ref.)
Changes in astrocytic glutamate catabolism enzymes following neuronal degeneration or viral infection. Belin MF, et al. **Glia** 1997 Sep;21(1):154–61 (80 ref.)
Does astrocytic glycogen benefit axon function and survival in CNS white matter during glucose deprivation? Ransom BR, et al. **Glia** 1997 Sep;21(1):134–41 (53 ref.)
Glucose, the brain and the paediatric endocrinologist. Aynsley-Green A. **Horm Res** 1996 Jul;46(1):8–25 (88 ref.)
Dominant frequency analysis of EEG reveals brain's response during injury and recovery. Goel V, et al.
IEEE Trans Biomed Eng 1996 Nov;43(11):1083–92
Feasibility of ultrasound hyperthermia with waveguide interstitial applicator. Jarosz BJ.
IEEE Trans Biomed Eng 1996 Nov;43(11):1106–15
Expression of complement in the brain: role in health and disease. Morgan BP, et al. **Immunol Today** 1996 Oct; 17(10):461–6 (34 ref.)
Alterations in cholinergic transmission in different brain regions of chick during Newcastle disease virus (NDV) infection. Lokanatha V, et al. **Indian J Exp Biol** 1996 May; 34(5):478–9
Neurocircuitries and neurotransmitter interactions in schizophrenia. Carlsson A. **Int Clin Psychopharmacol** 1995 Sep;10 Suppl 3:21–8 (42 ref.)
Proton magnetic resonance spectroscopy in dementia of Alzheimer type. Heun R, et al.
Int J Geriatr Psychiatry 1997 Mar;12(3):349–58
Evaluation of the emotional state shortly before death--science-fiction or a new challenge? [letter] Gos T, et al. **Int J Legal Med** 1996;108(6):327–8
Magnetohydrodynamic wave resonance and the evocation of epileptiform activity by millitesla DC magnetic fields. Alvager T, et al. **Int J Neurosci** 1997 Jun;90(1–2):99–104
Left and right hemispheric contributions to discourse coherence and cohesion. Bloom RL, et al.
Int J Neurosci 1996 Nov;88(1–2):125–40
Regional cerebral blood flow and neuropsychological performance in a Danish family with X-linked bulbo-spinal neuronopathy. Tedeschi E, et al. **Int J Neurosci** 1995 Nov; 83(1–2):59–68
Extubation failure due to post-extubation stridor is better correlated with neurologic impairment than with upper airway lesions in critically ill pediatric patients. Harel Y, et al. **Int J Pediatr Otorhinolaryngol** 1997 Mar 6; 39(2):147–58
Functional imaging in treatment planning of brain lesions. Hamilton RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):181–8
Detection of subclinical brain dysfunction by sensory evoked potentials in patients with severe diabetic ketoacidosis. Eisenhuber E, et al. **Intensive Care Med** 1997 May; 23(5):587–9
Fractal dimension of sustained vowel productions in neurological dysphonias: an acoustic and electroglottographic analysis [letter] Hertrich I, et al.
J Acoust Soc Am 1997 Jul;102(1):652–4
Cocaine, dopamine and the endogenous opioid system. Kreek MJ. **J Addict Dis** 1996;15(4):73–96 (84 ref.)
Neurometric QEEG studies of crack cocaine dependence and treatment outcome. Prichep LS, et al. **J Addict Dis** 1996; 15(4):39–53
Neuropsychological deficits among older depressed patients with predominantly psychological or vegetative symptoms. Palmer BW, et al. **J Affect Disord** 1996 Nov 4;41(1):17–24
The embedment-in-the-brain-circuitry phenomenon: implications for psychoanalytic treatment. Gardner RA. **J Am Acad Psychoanal** 1997 Spring;25(1):151–76
A neuro-evolutionary approach to the anxiety disorders. Stein DJ, et al. **J Anxiety Disord** 1997 Jul–Aug;11(4):409–29 (110 ref.)
Adolescent schizophrenia: a methodologic review of the current neuroimaging and neuropsychologic literature. Findling RL, et al. **J Autism Dev Disord** 1995 Dec; 25(6):627–39 (39 ref.)
Antibodies against adhesion molecules reduce apoptosis after transient middle cerebral artery occlusion in rat brain. Chopp M, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):578–84
Right hemisphere dysfunction in subjects with attention-deficit disorder with and without hyperactivity. García-Sánchez C, et al. **J Child Neurol** 1997 Feb; 12(2):107–15
Schwartz-Jampel syndrome: evidence of central nervous system dysfunction. Singh B, et al. **J Child Neurol** 1997 Apr;12(3):214–7
Electrophysiologic measures of delayed maturation in attention-deficit hyperactivity disorder. Uclés P, et al.
J Child Neurol 1996 Mar;11(2):155–6
Pathogenesis of Tourette's syndrome. Leckman JF, et al.
J Child Psychol Psychiatry 1997 Jan;38(1):119–42 (225 ref.)
Insulin-associated modulation of neuroendocrine counterregulation, hypoglycemia perception, and cerebral function in insulin-dependent diabetes mellitus: evidence for an intrinsic effect of insulin on the central nervous system. Lingenfelser T, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1197–205
Effects of spontaneous chronic hypoglycemia on central and peripheral nervous system in insulinoma patients before and after surgery: a neurophysiological follow-up. Pozzessere G, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1447–51
Assessment of brain function in adolescent anorexia nervosa before and after weight gain. Bradley SJ, et al.
J Clin Exp Neuropsychol 1997 Feb;19(1):20–33
Periodic lateralized epileptiform discharges—a critical review. Pohlmann-Eden B, et al. **J Clin Neurophysiol** 1996 Nov;13(6):519–30
Evaluation of cerebral function after carotid endarterectomy. Uclés P, et al. **J Clin Neurophysiol** 1997 May;14(3):242–9
Toward an integrated neurobiology of panic disorder. Goddard AW, et al. **J Clin Psychiatry** 1997;58 Suppl 2:4–11; discussion 11–2 (57 ref.)
Recent developments in neurobiology of obsessive-compulsive disorder. Jenike MA, et al.
J Clin Psychiatry 1996 Oct;57(10):492–503
The biological basis of panic disorder. Krystal JH, et al.
J Clin Psychiatry 1996;57 Suppl 10:23–31; discussion 32–3 (76 ref.)
Recent advances in depression research: from stress to molecular biology and brain imaging. Risch SC.
J Clin Psychiatry 1997;58 Suppl 5:3–6 (31 ref.)
The psychobiology of posttraumatic stress disorder. van der Kolk BA. **J Clin Psychiatry** 1997;58 Suppl 9:16–24 (75 ref.)
Soman-induced seizures rapidly activate astrocytes and microglia in discrete brain regions. Zimmer LA, et al.
J Comp Neurol 1997 Feb 24;378(4):482–92
Increased plasma concentrations of brain natriuretic peptide in patients with acute lung injury. Mitaka C, et al.
J Crit Care 1997 Jun;12(2):66–71
Role for adenosine in channel arrest in the anoxic turtle brain. Pék M, et al. **J Exp Biol** 1997 Jul;200 (Pt 13):1913–7
Cerebral consequences of hypertension: where do they lead? Spence JD. **J Hypertens Suppl** 1996 Dec;14(5):S139–45 (65 ref.)
Diagnostic potential of laser-induced autofluorescence emission in brain tissue. Chung YG, et al.
J Korean Med Sci 1997 Apr;12(2):135–42
Cellular aspects of HIV-1 infection of macrophages leading to neuronal dysfunction in in vitro models for HIV-1 encephalitis. Nottet HS, et al. **J Leukoc Biol** 1997 Jul; 62(1):107–16 (112 ref.)
Basic mechanisms of brain inflammation. Lassmann H.
J Neural Transm Suppl 1997;50:183–90 (48 ref.)
Hyperglycemic damage to mitochondrial membranes during cerebral ischemia: amelioration by platelet-activating factor antagonist BN 50739. Kintner DB, et al.
J Neurochem 1997 Sep;69(3):1219–27
Are white matter lesions directly associated with cognitive impairment in patients with lacunar infarcts? van Swieten JC, et al. **J Neurol** 1996 Feb;243(2):196–200
Brain and skeletal muscle bioenergetic failure in familial hypobetalipoproteinaemia. Lodi R, et al.
J Neurol Neurosurg Psychiatry 1997 Jun;62(6):574–80 (61 ref.)
Brain and spinal cord MRI in motor neuron disease [letter; comment] Testa D, et al.
J Neurol Neurosurg Psychiatry 1997 May;62(5):546. Comment on: J Neurol Neurosurg Psychiatry 1996 Sep;61(3):314–7.
Evidence for central nervous system glial cell plasticity in phenylketonuria. Dyer CA, et al.
J Neuropathol Exp Neurol 1996 Jul;55(7):795–814
DNA damage distribution in the human brain as shown by in situ end labeling; area-specific differences in aging and Alzheimer disease in the absence of apoptotic morphology. Lucassen PJ, et al. **J Neuropathol Exp Neurol** 1997 Aug; 56(8):887–900
Poststroke bipolar affective disorder: clinical subtypes, concurrent movement disorders, and anatomical correlates. Berthier ML, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):160–7
Multiple sclerosis and bipolar disorder: a case report with autopsy findings. Casanova MF, et al.
J Neuropsychiatry Clin Neurosci 1996 Spring;8(2):206–8
Dimensional complexity of EEG waveforms in neuroleptic-free schizophrenic patients and normal control subjects. Hoffmann RE, et al.
J Neuropsychiatry Clin Neurosci 1996 Fall;8(4):436–41
Lesion characteristics and depressed mood in the stroke data bank study. Morris PL, et al.
J Neuropsychiatry Clin Neurosci 1996 Spring;8(2):153–9
Clinical-pathological case conference: depression, behavior change, and subcortical dementia in a 57-year-old woman.[clinical conference] Salloway S.
J Neuropsychiatry Clin Neurosci 1996 Spring;8(2):215–21
Role of endothelin-1 in astrocyte responses after acute brain damage. Hama H, et al. **J Neurosci Res** 1997 Mar 15; 47(6):590–602
Continuous monitoring and regulating of brain temperature in the conscious and freely moving ischemic gerbil: effect of MK-801 on delayed neuronal death in hippocampal CA1. Zhang L, et al. **J Neurosci Res** 1997 Feb 15; 47(4):440–8
Function and organization in dysgenic cortex. Case report. Preul MC, et al. **J Neurosurg** 1997 Jul;87(1):113–21
Brain tissue pressure gradients [letter; comment] Woischneck D, et al. **J Neurosurg** 1997 Jul;87(1):134. Comment on: J Neurosurg 1996 Apr;84(4):642–7.
Regional brain tissue pressure gradients created by expanding extradural temporal mass lesion. Wolfla CE, et al.
J Neurosurg 1997 Mar;86(3):505–10
Influence of closed head injury on isoflurane MAC in the rat. Shapira Y, et al. **J Neurosurg Anesthesiol** 1997 Jan; 9(1):51–7
Transient lupus anticoagulants associated with hemorrhage rather than thrombosis: the hemorrhagic lupus anticoagulant syndrome. Becton DL, et al. **J Pediatr** 1997 Jun;130(6):998–1000
Pharmacotherapy of altered brain-gut interactions in functional gastrointestinal disorders. Clouse RE.
J Pediatr Gastroenterol Nutr 1997;25 Suppl 1:S18–9
Self-injurious behavior and dopaminergic neuron system in neonatal 6-hydroxydopamine-lesioned rat: 2. Intracerebral microinjection of dopamine agonists and antagonists. Okamura H, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):1031–7
The effect of laterality of stimulus presentation on auditory P300 topography in schizophrenia. Bolsche F, et al.
J Psychiatry Neurosci 1996 Mar;21(2):83–8
Effects of age and Alzheimer's disease on recognition of gated spoken words. Marshall NB, et al.
J Speech Hear Res 1996 Aug;39(4):724–33
Central and peripheral factors in fatigue. Davis JM.
J Sports Sci 1995 Summer;13 Spec No:S49–53 (30 ref.)
Reovirus infection and tissue injury in the mouse central nervous system are associated with apoptosis. Oberhaus SM, et al. **J Virol** 1997 Mar;71(3):2100–6
Functional echoplanar brain imaging correlates of amphetamine administration to normal subjects and subjects with the narcoleptic syndrome. Howard RJ, et al. **Magn Reson Imaging** 1996;14(9):1013–6
Quantitative analysis of EEG effects following experimental marginal magnesium and boron deprivation. Penland JG. **Magnes Res** 1995 Dec;8(4):341–58
The neurobiology of gonadal hormones and cognitive decline in late life [editorial] Fillit H, et al. **Maturitas** 1997 Apr; 26(3):159–64
Assessment of the humane aspects of electric lancing of whales by measurement of current densities in the brain and heart of dead animals. Barnes GR, et al.
Med Biol Eng Comput 1996 Nov;34(6):436–40
Loss of intraventricular fluid melatonin can explain the

neuropathology of Alzheimer's disease. Maurizi CP. **Med Hypotheses** 1997 Aug;49(2):153–8

Cerebral bioimpedance pattern as a function of psychiatric signs and symptoms. Naisberg Y, et al. **Med Hypotheses** 1997 Feb;48(2):171–5

Biophysical shunt theory for neuropsychopathology. Part II: Neuronal network miswiring. Naisberg Y, et al. **Med Hypotheses** 1996 Jun;46(6):517–21

Repetitive and non-repetitive violent offending behaviour in male patients in a maximum security mental hospital—clinical and neuroimaging findings. Wong M, et al. **Med Sci Law** 1997 Apr;37(2):150–60

How can be best explain retrograde amnesia in human memory disorder? Kapur N. **Memory** 1997 Jan–Mar; 5(1–2):115–29

New approaches to the study of amnesic patients: what can a neurofunctional philosophy and neural network methods offer? Pickering AD. **Memory** 1997 Jan–Mar; 5(1–2):255–300

Dystonin expression in the developing nervous system predominates in the neurons that degenerate in dystonia musculorum mutant mice. Bernier G, et al. **Mol Cell Neurosci** 1995 Dec;6(6):509–20

Ischemic neuronal damage. How does mild hypothermia modulate it? Kataoka K, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):191–5 (9 ref.)

Amyloid beta-peptide and oxidative cellular injury in Alzheimer's disease. Mark RJ, et al. **Mol Neurobiol** 1996 Jun;12(3):211–24 (91 ref.)

Morphine down-regulates melanocortin-4 receptor expression in brain regions that mediate opiate addiction. Alvaro JD, et al. **Mol Pharmacol** 1996 Sep;50(3):583–91

Hashimoto's myoclonic encephalopathy: an underdiagnosed treatable condition? [see comments] Ghika-Schmid F, et al. **Mov Disord** 1996 Sep;11(5):555–62 (30 ref.). Comment in: Mov Disord 1997 May;12(3):471–2.

Quantitative gait analysis in patients with vascular parkinsonism. Zijlmans JC, et al. **Mov Disord** 1996 Sep; 11(5):501–8

Growth factors and myelin regeneration in multiple sclerosis. Webster HD. **Mult Scler** 1997 Apr;3(2):113–20 (128 ref.)

Magnetic stimulation of muscle evokes cerebral potentials by direct activation of nerve afferents: a study during muscle paralysis. Zhu Y, et al. **Muscle Nerve** 1996 Dec; 19(12):1570–5

Globus pallidus stimulation activates the cortical motor system during alleviation of parkinsonian symptoms [see comments] Davis KD, et al. **Nat Med** 1997 Jun;3(6):671–4 . Comment in: Nat Med 1997 Jun;3(6):602–3.

Cholinergic activation of phosphoinositide signaling is impaired in Alzheimer's disease brain. Jope RS, et al. **Neurobiol Aging** 1997 Jan–Feb;18(1):111–20

Changes in extracellular acid–base homeostasis in cerebral ischemia. Taylor DL, et al. **Neurochem Res** 1996 Sep; 21(9):1013–21

Assessment of functional impairment following permanent middle cerebral artery occlusion in a non-human primate species. Marshall JW, et al. **Neurodegeneration** 1996 Sep; 5(3):275–86

Neurobiology of Tourette syndrome. Singer HS. **Neurol Clin** 1997 May;15(2):357–79 (137 ref.)

Peritumoral edema and seizure in patients with cerebral convexity and parasagittal meningiomas. Kawaguchi T, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):568–73; discussion 573–4

Electrocerebral inactivity associated with obstructive sleep apnea. Connelly CS, et al. **Neurology** 1997 May; 48(5):1464–6

Lateralization of brain function in childhood revealed by magnetic resonance spectroscopy. Gadian DG, et al. **Neurology** 1996 Apr;46(4):974–7

Noninvasive assessment of language dominance in children and adolescents with functional MRI: a preliminary study [see comments] Hertz-Pannier L, et al. **Neurology** 1997 Apr;48(4):1003–12. Comment in: Neurology 1997 Apr;48(4):797–800.

Deep brain stimulation for essential tremor. Hubble JP, et al. **Neurology** 1996 Apr;46(4):1150–3

Schizencephaly: correlations of clinical and radiologic features. Packard AM, et al. **Neurology** 1997 May; 48(5):1427–34

Brain temperature monitoring and modulation in patients with severe MCA infarction. Schwab S, et al. **Neurology** 1997 Mar;48(3):762–7

Analysis of a human brain voltage-gated potassium channel gene, KCNA6 (HBK2), in patients with juvenile myoclonic epilepsy [letter] Rees M, et al. **Neuropediatrics** 1995 Dec; 26(6):333–4

Deficiency of merosin (laminin M or alpha 2) in congenital muscular dystrophy associated with cerebral white matter alterations. Vainzof M, et al. **Neuropediatrics** 1995 Dec; 26(6):293–7

Creutzfeldt-Jakob disease with features of obsessive-compulsive disorder and anorexia nervosa: the role of cortical-subcortical systems. Lopez OL, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr; 10(2):120–4

Psychogeriatric clinical, electro-encephalographic and autopsy findings. Müller HF, et al. **Neuropsychobiology** 1997;35(2):95–101

Classification of quantitative EEG data by an artificial neural network: a preliminary study. Riquelme LA, et al. **Neuropsychobiology** 1996;33(2):106–12

Is memory loss without anatomical damage tantamount to a psychogenic deficit? The case of pure retrograde amnesia. Di Renzi E, et al. **Neuropsychologia** 1997 Jun;35(6):781–94

Sound localization in egocentric space following hemispheric lesions. Haeske-Dewick H, et al. **Neuropsychologia** 1996 Sep;34(9):937–42

Phonological dyslexia and phonological dysgraphia following left and right hemispherectomy. Ogden JA. **Neuropsychologia** 1996 Sep;34(9):905–18

Perception of geometric illusions in hemispatial neglect. Ro T, et al. **Neuropsychologia** 1996 Oct;34(10):973–8

Electrophysiological insights into the nature of the semantic deficit in Alzheimer's disease. Schwartz TJ, et al. **Neuropsychologia** 1996 Aug;34(8):827–41

The first neurophysiological evidence for cognitive brain dysfunctions in children with CATCH. Cheour M, et al. **Neuroreport** 1997 May 6;8(7):1785–7

'Theory of mind' in the brain. Evidence from a PET scan study of Asperger syndrome. Happé F, et al. **Neuroreport** 1996 Dec 20;8(1):197–201

Neural correlates of thinking in sign language. McGuire PK, et al. **Neuroreport** 1997 Feb 10;8(3):695–8

Subthalamic nucleus: a new anticonvulsant site in the brain. Velišková J, et al. **Neuroreport** 1996 Jul 29;7(11):1786–8

Stroke, a reduction in blood flow to a region of the central nervous system [editorial] Juurlink BH. **Neurosci Biobehav Rev** 1997 Mar;21(2):v–vi

Ligation of lateral carotid artery attenuates disturbance of brain function caused by subsequent cerebral ischemia in rabbits. Wang Y, et al. **Neurosci Lett** 1996 Nov 1; 218(2):119–22

Simultaneous measurements of lactate and blood flow during hypoxia and recovery from hypoxia in a localized region in the brain of the anesthetized rabbit. Yanai S, et al. **Neurosci Res** 1997 Jan;27(1):75–84

Evidence against a permissive role of the metabotropic glutamate receptor 1 in acute excitotoxicity. Ferraguti F, et al. **Neuroscience** 1997 Jul;79(1):1–5

Inescapable stress enhances extracellular acetylcholine in the rat hippocampus and prefrontal cortex but not the nucleus accumbens or amygdala. Mark GP, et al. **Neuroscience** 1996 Oct;74(3):767–74

Intraoperative use of somatosensory evoked potentials for brain monitoring during carotid surgery. Horsch S, et al. **Neurosurg Clin N Am** 1996 Oct;7(4):693–702 (16 ref.)

Magnetic source imaging as a tool for presurgical functional brain mapping. Roberts TP, et al. **Neurosurg Clin N Am** 1997 Jul;8(3):421–38 (68 ref.)

Functional magnetic resonance imaging of regional brain activity in patients with intracerebral gliomas: findings and implications for clinical management. Atlas SW, et al. **Neurosurgery** 1996 Feb;38(2):329–38

Split cannula method for accurate placement of an electrode for deep brain stimulation: technical note. Taira T, et al. **Neurosurgery** 1997 Aug;41(2):498–9; discussion 499–500

The gut–brain brain–gut axis in anorexia: toward an understanding of food intake regulation. Meguid MM, et al. **Nutrition** 1996 Jan;12(1 Suppl):S57–62 (44 ref.)

Laser-evoked cerebral potentials and sensory function in patients with central pain. Casey KL, et al. **Pain** 1996 Mar; 64(3):485–91

Tonic pain: a SPET study in normal subjects and cluster headache patients. Di Piero V, et al. **Pain** 1997 Apr; 70(2–3):185–91

Right-lateralised central processing for pain of nitroglycerin-induced cluster headache. Hsieh JC, et al. **Pain** 1996 Sep;67(1):59–68

The effect of ketamine on phantom pain: a central neuropathic disorder maintained by peripheral input. Nikolajsen L, et al. **Pain** 1996 Sep;67(1):69–77

Introduction of a second working portal for neuroendoscopy. A technical note. Jallo GI, et al. **Pediatr Neurosurg** 1996; 24(2):56–60

The influence of extracorporeal membrane oxygenation on cerebral oxygenation and hemodynamics in normoxemic and hypoxemic piglets. Liem KD, et al. **Pediatr Res** 1996 Feb;39(2):209–15

A piglet survival model of posthypoxic encephalopathy. Thoresen M, et al. **Pediatr Res** 1996 Nov;40(5):738–48

Near-infrared spectroscopy in experimental pneumococcal meningitis in the rabbit: cerebral hemodynamics and metabolism. Tureen J, et al. **Pediatr Res** 1996 Nov; 40(5):759–63

The pediatrician's role in caring for the developmentally disabled child. Liptak GS. **Pediatr Rev** 1996 Jun; 17(6):203–10; quiz 211 (16 ref.)

Evidence from proton magnetic resonance spectroscopy for a metabolic cascade of neuronal damage in shaken baby syndrome. Haseler LJ, et al. **Pediatrics** 1997 Jan;99(1):4–14

Intermanual differences on motor and psychomotor tests in alcoholics: no evidence for selective right-hemisphere dysfunction. Kwon LM, et al. **Percept Mot Skills** 1997 Apr; 84(2):403–14

Optical investigations of physiology: a study of intrinsic and extrinsic biomedical contrast. Chance B, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):707–16 (30 ref.)

Cognitive and neurobiologic markers of early Alzheimer disease. Albert MS. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13547–51 (62 ref.)

Activation of memory circuits during cue-elicited cocaine craving. Grant S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):12040–5

Muscarinic acetylcholine receptor expression in memory circuits: implications for treatment of Alzheimer disease. Levey AI. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):13541–6 (64 ref.)

Microglia-passaged simian immunodeficiency virus induces neurophysiological abnormalities in monkeys. Prospéro-García O, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14158–63

Cerebellar somatotopic representation and cerebro-cerebellar interconnections in ataxic patients. Wessel K, et al. **Prog Brain Res** 1997;114:577–88

The organization and function of endogenous antinociceptive systems. Sandkühler J. **Prog Neurobiol** 1996 Sep; 50(1):49–81 (172 ref.)

The neurobiology of impulsive aggression. Kavoussi R, et al. **Psychiatr Clin North Am** 1997 Jun;20(2):395–403

Relation of denial of alcohol problems to neurocognitive impairment and depression. Wiseman EJ, et al. **Psychiatr Serv** 1996 Mar;47(3):306–8

A neuropathologic study of long-term, Economo-type postencephalitic parkinsonism with a prolonged clinical course. Mizukami K, et al. **Psychiatry Clin Neurosci** 1996 Apr;50(2):79–83

Bilateral transfer deficit in schizophrenia: a trait marker. Biswas AK, et al. **Psychiatry Res** 1996 Sep 27;64(2):115–20

Schizophrenia and neurological soft signs: gender differences in clinical correlates and antecedent factors. Lane A, et al. **Psychiatry Res** 1996 Sep 27;64(2):105–14

Functional asymmetries in schizophrenia and their relationship to cognitive performance. Sakuma M, et al. **Psychiatry Res** 1996 Nov 1;65(1):1–13

Neuropsychological impairments in unipolar depression: the influence of perceived failure on subsequent performance. Elliott R, et al. **Psychol Med** 1996 Sep;26(5):975–89

Brain activation during an auditory 'oddball task' in schizophrenia measured by single photon emission tomography. Shajahan PM, et al. **Psychol Med** 1997 May; 27(3):587–94

Corticosteroids enhance convulsion susceptibility via central mineralocorticoid receptors. Roberts AJ, et al. **Psychoneuroendocrinology** 1995;20(8):891–902 (52 ref.)

Magnetoencephalographic assessment of spontaneous brain activity in schizophrenia. Cañive JM, et al. **Psychopharmacol Bull** 1996;32(4):741–50

The biological, social and clinical bases of drug addiction: commentary and debate. Altman J, et al. **Psychopharmacology (Berl)** 1996 Jun;125(4):285–345

Effects of cigarette smoking on EEG spectral-band power, dimensional complexity, and nonlinearity during reaction-time task performance. Houlihan ME, et al. **Psychophysiology** 1996 Nov;33(6):740–6

Electrophysiological evidence for cross-modal plasticity in humans with early- and late-onset blindness. Kujala T, et al. **Psychophysiology** 1997 Mar;34(2):213–6

Cerebral mucormycosis presenting a psychiatric distress [letter] Crowley P, et al. **Psychosomatics** 1996 Mar–Apr; 37(2):164–5

Schizophrenia vs. neurosarcoidosis in a young male [letter] John S, et al. **Psychosomatics** 1996 Mar–Apr;37(2):166–8

Neuropsychological evaluation for detecting alterations in the central nervous system after chemical exposure. Bolla KI. **Regul Toxicol Pharmacol** 1996 Aug;24(1 Pt 2):S48–51

Characterization of ventilatory responses to hypoxia in neonatal rats. Fung ML, et al. **Respir Physiol** 1996 Jan; 103(1):57–66

Resuscitation from cardiac arrest in cats: influence of epinephrine dosage on brain recovery. Schmitz B, et al. **Resuscitation** 1995 Dec;30(3):251–62

Autopsy prevalence of Wernicke's encephalopathy in alcohol-related disease. Naidoo DP, et al. **S Afr Med J** 1996 Sep;86(9):1110–2

Exaggerated responsivity of brain dopaminergic system activity in schizophrenia: a preliminary finding of increased variance of plasma homovanillic acid level in a chronic patient [letter] Fukuda M, et al. **Schizophr Res** 1996 May; 20(1–2):241–4

Subcortical dysfunction in schizophrenia: a comparison with Parkinson's disease and Huntington's disease. Hanes KR, et al. **Schizophr Res** 1996 May;19(2–3):121–8

Developmental insanity or dementia praecox: was the wrong concept adopted? O'Connell P, et al. **Schizophr Res** 1997 Feb 7;23(2):97–106 (108 ref.)

Wakefulness and arousal in neonates born to women with schizophrenia: diminished arousal and its association with neurological deviations. Schubert EW, et al. **Schizophr Res** 1996 Oct 18;22(1):49–59

Developmental trajectory and disease progression in schizophrenia: the conundrum, and insights from a 12-year prospective study in the Monaghan 101. Waddington JL, et al. **Schizophr Res** 1997 Feb 7;23(2):107–18 (141 ref.)

Neurocognitive deficits and neurological signs in schizophrenia. Wong AH, et al. **Schizophr Res** 1997 Feb 7;23(2):139–46

Linking mind and brain in the study of mental illnesses: a project for a scientific psychopathology. Andreasen NC. **Science** 1997 Mar 14;275(5306):1586–93 (55 ref.)

Mastering the nonlinear brain [news] Glanz J. **Science** 1997 Sep 19;277(5333):1758–60

Comparisons can be odious [editorial] Betts T. **Seizure** 1996 Jun;5(2):85–8

Use of the family to facilitate communicative changes in adults with neurological impairments. Burns MS. **Semin Speech Lang** 1996 May;17(2):115–21; quiz 121–2

Effects of aging on neuromotor processes of swallowing. Caruso AJ, et al. **Semin Speech Lang** 1997 May;18(2):181–92 (68 ref.)

Neurobiology of learning disabilities. Chase CH. **Semin Speech Lang** 1996 Aug;17(3):173–81 (32 ref.)

Deep brain stimulation for neuropathic pain. Tasker RR, et al. **Stereotact Funct Neurosurg** 1995;65(1–4):122–4

Mapping of motor cortical reorganization after stroke. A brain stimulation study with focal magnetic pulses. Traversa R, et al. **Stroke** 1997 Jan;28(1):110–7

Surgical treatment of intractable seizures with multilobar or bihemispheric seizure foci (MLBHSF). Patil AA, et al. **Surg Neurol** 1997 Jan;47(1):72–7; discussion 77–8

Impaired cerebral autoregulation after mild brain injury. Strebel S, et al. **Surg Neurol** 1997 Feb;47(2):128–31

Brain chimeras in birds: application to the study of a genetic form of reflex epilepsy. Batini C, et al. **Trends Neurosci** 1996 Jun;19(6):246–52

Increasing the brain's tolerance to ischemia in the operating room. Patel PM, et al. **West J Med** 1997 Jun;166(6):412–3

[Proceedings of the 6th Lilly Symposium of the Central Nervous System. Paris, France, 22–23 November 1996] **Encephale** 1997 Jun;23 Spec No 3:1–58 **(Fre)**

[Electrophysiologic studies] Bougerol T. **Encephale** 1996 Oct; 22 Spec No 3:13–7 (61 ref.) **(Fre)**

[From inducers of panic attack to neurobiology of panic disorder] Bourin M. **Encephale** 1996 Dec;22 Spec No 5:35–41 (57 ref.) (Eng. Abstr.) **(Fre)**

[Psychopathology and cognitive neurosciences: theoretical conflicts and experimental paradigms] Jouvent R, et al. **Encephale** 1997 Jun;23 Spec No 3:9–14 (30 ref.) (Eng. Abstr.) **(Fre)**

[Brain imaging in schizophrenic psychoses] Martinot JL. **Encephale** 1996 Oct;22 Spec No 3:18–24; discussion 25–6 **(Fre)**

[Spectroscopic measurement of the intracerebral cytochrome system] Krauskopf KH, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):374–8 **(Ger)**

[Nondeclarative memory--neuropsychological findings and neuroanatomic principles] Daum I, et al. **Fortschr Neurol Psychiatr** 1997 Mar;65(3):122–32 (115 ref.) (Eng. Abstr.) **(Ger)**

[Reflections on the psychobiology of depression] Aldenhoff J. **Nervenarzt** 1997 May;68(5):379–89 (93 ref.) (Eng. Abstr.) **(Ger)**

[The extra- and intracranial correlations of cerebral hemodynamics] Antignani PL, et al. **Clin Ter** 1996 May; 147(5):253–7 (Eng. Abstr.) **(Ita)**

[Evaluation of 123I-iomazenil SPECT in patients with ischemic cerebrovascular disease: comparative study with 123I-IMP SPECT] Moriwaki H, et al. **Kaku Igaku** 1996 Jun;33(6):587–97 (Eng. Abstr.) **(Jpn)**

[Functional neurosurgery with an implantable and programmable pulse-generator: control of involuntary movement disorders] Katayama Y. **No Shinkei Geka** 1997 Feb;25(2):101–8 (56 ref.) **(Jpn)**

[Brain and mind (editorial)] Miike T. **No To Hattatsu** 1996 Sep;28(5):378 **(Jpn)**

[Topographic analysis of resting EEG and photic driving responses in patients with presenile Alzheimer's disease] Nanbu Y, et al. **Rinsho Byori** 1997 Mar;45(3):277–81 (Eng. Abstr.) **(Jpn)**

[Pathophysiology of involuntary movements--dystonia and myoclonus from viewpoint of brain activities] Shibasaki H. **Rinsho Shinkeigaku** 1995 Dec;35(12):1384–6 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Encephalopathy in the course of idiopathic hypereosinophilic syndrome — clinical-morphological correlations] Brzosko M, et al. **Neurol Neurochir Pol** 1996 May–Jun;30(3):475–80 (Eng. Abstr.) **(Pol)**

[Neurosarcoidosis or Guillain-Barre syndrome complicating sarcoidosis] Jamrozik Z, et al. **Neurol Neurochir Pol** 1996 May–Jun;30(3):481–7 (Eng. Abstr.) **(Pol)**

[The effect of aphasia and organic brain damage on the variability of the results of "Token" test] Jarzębska E. **Neurol Neurochir Pol** 1996 Jul–Aug;30(4):581–8 (Eng. Abstr.) **(Pol)**

[The blood-brain barrier. II. Pathology: brain tumors, brain edema, hypertension, epilepsy] Sobaniec W, et al. **Neurol Neurochir Pol** 1996 Nov–Dec;30(6):1009–19 (Eng. Abstr.) **(Pol)**

[The Landau-Kleffner syndrome. SPECT and EEG investigations] Steinborn B, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):771–81 (Eng. Abstr.) **(Pol)**

[Analysis of the clinical state and disease course in patients with acute stroke and reversed blood flow in the ophthalmic artery] Wiszniewska M, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):737–43 (Eng. Abstr.) **(Pol)**

[Spontaneous intracerebral hematomas in the material of the Department of Neurosurgery of Medical Academy in Lublin (see comments)] Zderkiewicz E, et al. **Neurol Neurochir Pol** 1996 Jul–Aug;30(4):617–24 (Eng. Abstr.). Comment in: Neurol Neurochir Pol 1997 Jan–Feb;31(1):187. **(Pol)**

[The prognostic value of electronystagmographic and electroencephalographic tests in patients in brain coma] Osiński P. **Otolaryngol Pol** 1995;49(5):494–5 **(Pol)**

[Early central nervous system complications following purulent meningitis and encephalitis in children from 1 month to 2 years of age according to the etiological factor] Taraszkiewicz F, et al. **Pediatr Pol** 1996 Aug;71(8):689–94 (Eng. Abstr.) **(Pol)**

[Prediction of the central effect of pharmacological preparations in a hyperbaric environment] Sledkov AI. **Aviakosm Ekolog Med** 1996;30(6):24–6 (Eng. Abstr.) **(Rus)**

[Effect of acidosis on membrane potential and calcium transport in rat brain synaptosomes] Fedorovich SV, et al. **Biofizika** 1997 Mar–Apr;42(2):412–6 (Eng. Abstr.) **(Rus)**

[The effect of human fetal tissue transplantation on the functional state of CNS in patients with postcastration syndrome] Kulakov VI, et al. **Biull Eksp Biol Med** 1994 Apr;117(4):382–5 **(Rus)**

[Role of various hierarchical brain structures in psychoemotional stress] Pisarev VB, et al. **Biuli Eksp Biol Med** 1996 May;121(5):578–82 **(Rus)**

[Threshold of cerebral seizure activity and indicators of higher nervous system activity in the post-resuscitation period after intracerebral allotransplantation of embryonal neocortical tissue] Semchenko VV, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):234–7 **(Rus)**

[The effect of experimental and high-altitude hypoxia on the bioelectrical processes of different brain structures and intercentral relations] Soroko SI, et al. **Fiziol Cheloveka** 1997 May–Jun;23(3):11–9 (44 ref.) **(Rus)**

[The EEG characteristics and EEG toposelective mapping in patients with chronic suppurative otitis media before and after a sanitizing operation on the ear] Derbeneva ML, et al. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):20–2 (Eng. Abstr.) **(Rus)**

[The effect of combined transcerebral magnetic and electric impulse therapy on the cerebral and central hemodynamic status of stroke patients in the early rehabilitation period] Gorbunov FE, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May–Jun; (3):21–4 (Eng. Abstr.) **(Rus)**

[Intracranial electrostimulation in partial circulatory failure in man] Lapshin VP, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr; (2):15–6 **(Rus)**

[Brain bioelectrical activity in patients with the fragile X-chromosome syndrome and in their mothers] Gorbachevskaia NL, et al. **Zh Nevrol Psikhiatr Im S S Korsakova** 1997;97(8):33–7 (Eng. Abstr.) **(Rus)**

[Cerebral evoked potentials and reaction time studied by selective averaging in patients with posttraumatic epilepsy] Gnezditskiĭ VV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(2):41–4 (Eng. Abstr.) **(Rus)**

[Clinico-neurophysiological correlations in migraine] Vershinina SV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):38–40 (Eng. Abstr.) **(Rus)**

[The electrophysiological characteristics of brain function in mental disorders in participants in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station] Viatleva OA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):41–6 (Eng. Abstr.) **(Rus)**

[Neuroimaging and fundamental symptoms in schizophrenia] Lopez-Ibor MI, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Jan–Feb;24(1):25–8 (30 ref.) (Eng. Abstr.) **(Spa)**

[Neuropsychological involvement in childhood epilepsy] Mataró Serrat M, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Jul–Aug;24(4):219–26 (Eng. Abstr.) **(Spa)**

[Granulomatous angiitis of the central nervous system: a case report] Gibert Agulló A, et al. **An Esp Pediatr** 1996 Oct; 45(4):441–3 **(Spa)**

[Cephalic trembling as a result of neonatal cerebral venous thrombosis] Sagrera Felip X, et al. **An Esp Pediatr** 1996 Oct;45(4):431–3 **(Spa)**

[Late onset epilepsy] Alberca R, et al. **Neurologia** 1996 Dec; 11 Suppl 4:72–9 (57 ref.) (Eng. Abstr.) **(Spa)**

[Implicit memory in Alzheimer's disease] Cacho Gutiérrez J. **Neurologia** 1996 Nov;11(9):341–3 (30 ref.) **(Spa)**

[Subependymal nodular heterotopia: morphological variability (letter; comment)] Campos DM, et al. **Neurologia** 1996 Jan;11(1):42–4. Comment on: Neurologia 1995 Jun–Jul;10(6):238–41. **(Spa)**

[Anti-Tr antibodies and cerebellar paraneoplastic degeneration associated with Hodgkin's disease] Graus F, et al. **Neurologia** 1996 Aug–Sep;11(7):261 **(Spa)**

[Repeated strokes as a sign of multiple cerebral hydatid cysts] Martín Oterino JA, et al. **Neurologia** 1996 Oct;11(8):307–9 (Eng. Abstr.) **(Spa)**

[Status epilepticus] Salas-Puig J, et al. **Neurologia** 1996 Dec; 11 Suppl 4:108–21 (59 ref.) (Eng. Abstr.) **(Spa)**

[Neurological complications of patients infected by HIV-1] Abós J. **Rev Neurol** 1996 Dec;24(136):1569–76 (49 ref.) **(Spa)**

[Single photon emission computer tomography in the differential diagnosis of the paroxysmal clinical events in newborns] Alfonso I, et al. **Rev Neurol** 1996 Nov; 24(135):1408–10 (20 ref.) (Eng. Abstr.) **(Spa)**

[Cerebral mapping in patients with dementia of Alzheimer's type] Almárcegui C, et al. **Rev Neurol** 1997 Mar; 25(139):448–51 (Eng. Abstr.) **(Spa)**

[Focal cortical dysplasia] Barluenga E, et al. **Rev Neurol** 1997 Jan;25(137):136 **(Spa)**

[Complex partial seizures: the localization value of automatisms] Bertol V, et al. **Rev Neurol** 1997 Mar; 25(139):456–9 (Eng. Abstr.) **(Spa)**

[Dietetics and neurology] Castillo J. **Rev Neurol** 1996 Apr; 24(128):387–8 **(Spa)**

[Cerebrotendinous xanthomatosis: utility of nuclear magnetic resonance image in the follow-up and response to treatment] Cuende E, et al. **Rev Neurol** 1996 Dec; 24(136):1535–8 (Eng. Abstr.) **(Spa)**

[Management of patients with acute phase of stroke] Díez-Tejedor E, et al. **Rev Neurol** 1996 Jan;24(125):40–54 (131 ref.) (Eng. Abstr.) **(Spa)**

[Dyslexia: actual status of our neurological and neuropsychological knowledge] Estévez-González A, et al. **Rev Neurol** 1996 Jan;24(125):31–9 (90 ref.) (Eng. Abstr.) **(Spa)**

[Clinico-pathological correlation in the main types of dementia] Estupiñán B, et al. **Rev Neurol** 1997 Apr; 25(140):547–9 (Eng. Abstr.) **(Spa)**

[Registry of cerebral venous thrombosis] Ferro JM. **Rev Neurol** 1996 Jan;24(125):114 **(Spa)**

[Anatomoclinical forms of vascular dementia] García JH. **Rev Neurol** 1997 Jan;25(137):111–3 (17 ref.) **(Spa)**

[Pathological background in Alzheimer's disease] García JH. **Rev Neurol** 1997 Jan;25(137):94–6 (6 ref.) **(Spa)**

[Investigation of corticospinal dysfunction in multiple sclerosis and motoneuron diseases using motor evoked potentials] Gómez-Fernández L, et al. **Rev Neurol** 1996 Dec;24(136):1507–12 (Eng. Abstr.) **(Spa)**

[Epidemiology of tuberculosis in the district of Soria (1983–1993): cases with neurological involvement. Letter] Gros MB, et al. **Rev Neurol** 1997 Feb;25(138):304–5 **(Spa)**

[Evolutive neuroradiological alterations in Sandhoff's disease] Gutiérrez-Solana LG, et al. **Rev Neurol** 1996 Oct; 24(134):1263–6 (Eng. Abstr.) **(Spa)**

[Neurological complications of meningitis by Haemophilus influenzae. Letter] Lobera Gutiérrez de Pando E, et al. **Rev Neurol** 1997 Jan;25(137):142 **(Spa)**

[Apoptosis in the nervous system] Macaya A. **Rev Neurol** 1996 Nov;24(135):1356–60 (41 ref.) (Eng. Abstr.) **(Spa)**

[Hormonal response to stress after cerebrovascular accident: relation to type, size and site of the lesion] Marta-Moreno J, et al. **Rev Neurol** 1997 Apr;25(140):535–40 (Eng. Abstr.) **(Spa)**

[Cerebrovascular accident in young adults. A study of 52 cases] Martínez-Avilés P, et al. **Rev Neurol** 1996 Apr; 24(128):443–7 (Eng. Abstr.) **(Spa)**

[Intra-extracranial meningioma. Letter] Martínez-Mata AM, et al. **Rev Neurol** 1997 Jan;25(137):138–9 **(Spa)**

[Epileptic seizures during sleep] Mauri JA, et al. **Rev Neurol** 1996 Oct;24(134):1233–6 (Eng. Abstr.) **(Spa)**

[Diagnosis by imaging of the brain affected by AIDS] Mercader-Sobrequés JM, et al. **Rev Neurol** 1996 Dec; 24(136):1577–89 (43 ref.) (Eng. Abstr.) **(Spa)**

[Neurological complications associated with vitamin B1 deficiency (thiamine)] Moltó JM. **Rev Neurol** 1996 Apr; 24(128):389–91 **(Spa)**

[Neurological involvement following triple virus vaccine] Palao Sánchez A, et al. **Rev Neurol** 1997 Jan;25(137):75–7 (Eng. Abstr.) **(Spa)**

[Interaction between neuropsychological deficit in execution/ performance and ability to carry out daily activities in Alzheimer type dementia] Perea MV, et al. **Rev Neurol** 1997 Apr;25(140):513–8 (Eng. Abstr.) **(Spa)**

[The Bible and neurological and psychiatric pathology. Letter] Pérez-Trullén JM. **Rev Neurol** 1997 Jan; 25(137):144–5 **(Spa)**

[Anatomo-functional localization in cerebral cortex. Application of imaging systems as a guide for resection of cortical lesions] Pulido Rivas P, et al. **Rev Neurol** 1996; 24 Suppl 1:S5–61 (Eng. Abstr.) **(Spa)**

[Neurological complications caused by cytomegalovirus in patients with AIDS] Reñé R, et al. **Rev Neurol** 1996 Dec; 24(136):1590–6 (70 ref.) (Eng. Abstr.) **(Spa)**

[Latent period before hospital admission in cerebrovascular pathology: determining factors] Rey A, et al. **Rev Neurol** 1996 Apr;24(128):431–4 (Eng. Abstr.) **(Spa)**

[Neurological presentation of systemic lupus erythematosus] Romero-López J, et al. **Rev Neurol** 1996 Oct; 24(134):1276–8 (Eng. Abstr.) **(Spa)**

[Normotensive hydrocephalus as a manifestation of meningovascular syphilis] Romero-López J, et al. **Rev Neurol** 1996 Dec;24(136):1543–5 (Eng. Abstr.) **(Spa)**

[Platybasia, basilar groove, odontoid process and kinking of the brainstem: a common etiology with idiopathic syringomyelia, scoliosis and Chiari malformations] Royo-Salvador MB. **Rev Neurol** 1996 Oct;24(134):1241–50 (Eng. Abstr.) **(Spa)**

[Pervasive developmental disorders: neurological perspectives] Tuchman RF. **Rev Neurol** 1996 Nov; 24(135):1446–50 (Eng. Abstr.) **(Spa)**

[The virus of human immunodeficiency: virological characteristics, natural history and physiopathology of the nervous system infection] Vidal-Lampurdanés C, et al. **Rev Neurol** 1996 Dec;24(136):1563–8 (44 ref.) (Eng. Abstr.) **(Spa)**

[The activity of the enkephalinergic systems of the brain and

hypophysis in experimental hypocorticism] Kalyns'ka LM, et al. **Fiziol Zh** 1995 Sep–Dec;41(5–6):61–6 (Eng. Abstr.) **(Ukr)**

[Brain function in patients with atherosclerotic circulatory encephalopathy] Hryhorash HA, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):97–101 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

Combined surgery and radiotherapy of invasive pituitary adenomas--problems of radiogenic encephalopathy. Rauhut F, et al. **Acta Neurochir Suppl (Wien)** 1996;65:37–40

Histological changes in the normal rat brain after gamma irradiation. Kamiryo T, et al. **Acta Neurochir (Wien)** 1996; 138(4):451–9

Effect of irradiation on the GTP binding kinetics of chicken embryo brain plasma membranes. Takáts A, et al. **Acta Physiol Hung** 1995;83(4):343–53

Radiation therapy in the management of malignant gliomas. Brada M, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):319–43 (129 ref.)

Effect of continuous-wave and amplitude-modulated 2.45 GHz microwave radiation on the liver and brain aminoacyl-transfer RNA synthetases of in utero exposed mice. Kubinyi G, et al. **Bioelectromagnetics** 1996; 17(6):497–503

Melatonin and a spin-trap compound block radiofrequency electromagnetic radiation-induced DNA strand breaks in rat brain cells. Lai H, et al. **Bioelectromagnetics** 1997; 18(6):446–54

Acute exposure to a 60 Hz magnetic field increases DNA strand breaks in rat brain cells. Lai H, et al. **Bioelectromagnetics** 1997;18(2):156–65

Effects of weak microwave fields amplitude modulated at ELF on EEG of symmetric brain areas in rats. Vorobyov VV, et al. **Bioelectromagnetics** 1997;18(4):293–8

Comment on "Acute low-intensity microwave exposure increases DNA single-strand breaks in rat brain cells" by Henry Lai and Narendra P. Singh. Williams GM. **Bioelectromagnetics** 1996;17(2):165; discussion 166

Late radiation change in the CNS: MR imaging following gadolinium enhancement. Norris AM, et al. **Clin Radiol** 1997 May;52(5):356–62

Neonatal gamma-ray irradiation impairs learning and memory of an olfactory associative task in adult rats. Chaillan FA, et al. **Eur J Neurosci** 1997 May;9(5):884–94

Effects of gamma irradiation on the transduction of dividing and nondividing cells in brain and muscle of rats by adeno-associated virus vectors. Alexander IE, et al. **Hum Gene Ther** 1996 May 1;7(7):841–50

High level of tritium-remaining in brain of rats exposed to tritiated water as infants. Yamada K, et al. **In Vivo** 1996 Sep–Oct;10(5):489–94

Delayed molecular responses to brain irradiation. Chiang CS, et al. **Int J Radiat Biol** 1997 Jul;72(1):45–53

Neuropsychological function in adults after high dose fractionated radiation therapy of skull base tumors. Glosser G, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1; 38(2):231–9

Anaplastic ependymoma: treatment of pediatric patients with or without craniospinal radiation therapy. Merchant TE, et al. **J Neurosurg** 1997 Jun;86(6):943–9

Serial magnetic resonance imaging of delayed radiation necrosis treated with dexamethasone. Case illustration. Tada E, et al. **J Neurosurg** 1997 Jun;86(6):1067

Marijuana intoxication and brain activation in marijuana smokers. Mathew RJ, et al. **Life Sci** 1997;60(23):2075–89

Improved dose distribution in the brain by collimator rotation. Kohut HT, et al. **Med Dosim** 1996 Winter; 21(4):207–10

CNS late effects after ALL therapy in childhood. Part I: Neuroradiological findings in long-term survivors of childhood ALL--an evaluation of the interferences between morphology and neuropsychological performance. The German Late Effects Working Group. Hertzberg H, et al. **Med Pediatr Oncol** 1997 Jun; 28(6):387–400

Survival and late effects in medulloblastoma patients treated with craniospinal irradiation under three years old. Kiltie AE, et al. **Med Pediatr Oncol** 1997 May;28(5):348–54

Long-term evaluation of radiation-induced brain damage by serial magnetic resonance imaging. Kato T, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):870–5; discussion 876

Effect of high simple dose of cisplatinum and of radiation on the brain of rabbit. Walach N, et al. **Neurol Res** 1997 Apr;19(2):216–8

Low power laser irradiation enhances migration and neurite sprouting of cultured rat embryonal brain cells. Wollman Y, et al. **Neurol Res** 1996 Oct;18(5):467–70

Cell death in the normal developing brain, and following ionizing radiation, methyl-azoxymethanol acetate, and hypoxia-ischaemia in the rat. Ferrer I. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):489–94 (40 ref.)

P300 abnormalities in long-time survivors of acute lymphoblastic leukemia in childhood--side effects of CNS prophylaxis? Uberall MA, et al. **Neuropediatrics** 1996 Jun; 27(3):130–5

Microwave superheating enhances immunocytochemistry in the freshly frozen rat brain. DeHart BW, et al. **Neuroreport** 1996 Nov 4;7(15–17):2691–4

Ionizing radiation induces expression of immediate early genes in the rat brain. Usenius T, et al. **Neuroreport** 1996 Nov 4;7(15–17):2559–63

Device for artifact-free recording of brain electrical activity during exposure of rats to UHF fields in conditions of free behavior. Vorob'ev VV, et al. **Neurosci Behav Physiol** 1996 Nov–Dec;26(6):565–6

Long-term toxicity and neuropathology associated with the sequencing of cranial irradiation and enhanced chemotherapy delivery. Remsen LG, et al. **Neurosurgery** 1997 May;40(5):1034–40; discussion 1040–2

The protective effect of dexamethasone against radiation damage induced by interstitial irradiation in normal monkey brain. Tada E, et al. **Neurosurgery** 1997 Jul;41(1):209–17; discussion 217–9

Results of a prospective randomized trial comparing standard dose neuraxis irradiation (3,600 cGy/20) with reduced neuraxis irradiation (2,340 cGy/13) in patients with low-stage medulloblastoma. A Combined Children's Cancer Group-Pediatric Oncology Group Study. Deutsch M, et al. **Pediatr Neurosurg** 1996;24(4):167–176; discussion 176–7

Effects of X-irradiation on nerve growth factor in the developing mouse brain. Dimberg Y, et al. **Toxicol Lett** 1997 Jan 15;90(1):35–43

[Blood volume changes after the radiotherapy of the central nervous system] Wenz F, et al. **Strahlenther Onkol** 1996 Oct;172(10):559–66 (Eng. Abstr.) **(Ger)**

[Hemodynamic and pathological changes in the normal rabbit brain after linac stereotactic irradiation] Ohtsuka T. **No Shinkei Geka** 1996 Sep;24(9):801–7 (Eng. Abstr.) **(Jpn)**

[Reaction of the brain receptor system to the effect of low intensity microwaves] Iurinskaia MM, et al. **Biofizika** 1996 Jul–Aug;41(4):859–65 (Eng. Abstr.) **(Rus)**

[Molecular mechanisms of biological action of low magnetic fields. I. Stability of chromatin from Ehrlich ascite carcinoma and mouse brain cells to the treatment of DNase 1 under combined action of low constant and alternating low-frequency magnetic fields adjusted to the cyclotron resonance of ions of polar amino acids] Novikov VV, et al. **Biofizika** 1997 May–Jun;42(3):733–7 (Eng. Abstr.) **(Rus)**

[Molecular mechanisms of biological action of low magnetic fields. II. Purification and characteristics of protein from rat brain chromatin which inhibit DNAse 1 activity] Shvetsov IuP, et al. **Biofizika** 1997 May–Jun;42(3):738–41 (Eng. Abstr.) **(Rus)**

[The reactions of neuroepithelial cells in different parts of the brain in mouse embryos to the action of ionizing radiation] Khozhaĭ LI, et al. **Morfologiia** 1996;110(4):71–4 (Eng. Abstr.) **(Rus)**

[Effects of low-intensity electromagnetic radiation of extremely high frequency on the animal body within the framework of total low-dose x-ray irradiation] Gubkina EA, et al. **Radiats Biol Radioecol** 1996 Sep–Oct;36(5):722–6 (Eng. Abstr.) **(Rus)**

[Dependence of changes in summary bioelectric activity of the brain on low-intensity microwave irradiation from density of flow energy] Luk'ianova SN, et al. **Radiats Biol Radioecol** 1996 Sep–Oct;36(5):706–9 (Eng. Abstr.) **(Rus)**

[Experimental data on reaction of neurons of the brain to low-intensity package-pulsing microwave irradiation] Moiseeva NV. **Radiats Biol Radioecol** 1996 Sep–Oct; 36(5):710–3 (Eng. Abstr.) **(Rus)**

[Changes in the kinetic properties of aldolase and lactate dehydrogenase in the brain cytoplasm of mice following chronic gamma irradiation at low doses] Treshchenkova IuA, et al. **Radiats Biol Radioecol** 1997 Jan–Feb;37(1):3–12 (Eng. Abstr.) **(Rus)**

[Biochemical changes in the brain of the root vole (Microtus oeconomus) from a 30-kilometer zone around the Chernobyl Atomic Electric Power Station] Kudiasheva AG, et al. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):87–93 (Eng. Abstr.) **(Rus)**

[The electrophysiological characteristics of brain function in mental disorders in participants in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station] Viatleva OA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):41–6 (Eng. Abstr.) **(Rus)**

[The characteristics of the late reaction of the human brain to radiation exposure: the EEG and neuropsychological study (the sequelae of the accident at the Chernobyl Atomic Electric Power Station)] Zhavoronkova LA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul–Aug; 46(4):699–711 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Cranial computed tomography for nontrauma patients: critical appraisal of a decision rule [editorial; comment] Stiell IG. **Acad Emerg Med** 1997 Jul;4(7):650–2. Comment on: Acad Emerg Med 1997 Jul;4(7):654–61.

Assessment of intraaxial and extraaxial brain lesions with digitized computed tomographic images versus film: ROC analysis. el-Saden SM, et al. **Acad Radiol** 1997 Feb; 4(2):90–5

Functional computed tomography scanning with radiopaque agents: applications in the brain, kidney, and tumor of small and large mammals. Wolf GL, et al. **Acad Radiol** 1996 Aug; 3 Suppl 2:S376–8

CT in simple partial seizures in children: a clinical and computed tomography study. Nair KP, et al. **Acta Neurol Scand** 1997 Apr;95(4):197–200

Ki- 1-positive anaplastic large cell lymphoma of the masticator space with intracranial extension. DelBalso AM, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1388–91

Epilepsy for the neuroradiologist. Fisher RS, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):851–63 (52 ref.)

Brain imaging in stroke [comment] Lee DH, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1265–6. Comment on: AJNR Am J Neuroradiol 1996 Aug;17(7):1259–63.

Utility of repeat brain imaging in stroke [see comments] Schneider LB, et al. **AJNR Am J Neuroradiol** 1996 Aug; 17(7):1259–63. Comment in: AJNR Am J Neuroradiol 1996 Aug;17(7):1265–6.

Anthrax meningoencephalitis: radiologic findings [letter] Domínguez E, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):317

Patients with antiphospholipid antibodies: CT and MR findings of the brain. Provenzale JM, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1573–8

Magnetic resonance imaging of the brain in Williams-Beuren syndrome [letter] Brinkmann G, et al. **Am J Med Genet** 1997 Jan 20;68(2):243

Predictors of abnormal findings of computed tomography of the head in pediatric patients presenting with seizures. Warden CR, et al. **Ann Emerg Med** 1997 Apr;29(4):518–23

Magnetic resonance microscopy in basic studies of brain structure and function. Johnson GA, et al. **Ann N Y Acad Sci** 1997 May 30;820:139–47; discussion 147–8 (18 ref.)

Multiecho approaches to spectroscopic imaging of the brain. Mulkern RV, et al. **Ann N Y Acad Sci** 1997 May 30; 820:97–122 (42 ref.)

Assessment of neurotoxicity from potential medications for drug abuse: ibogaine testing and brain imaging. Vocci FJ, et al. **Ann N Y Acad Sci** 1997 May 30;820:29–39; discussion 39–40 (42 ref.)

Bilateral ptosis and upgaze palsy with right hemispheric lesions. Averbuch-Heller L, et al. **Ann Neurol** 1996 Sep; 40(3):465–8

White matter attenuation and megalencephaly [letter] Robinson RO, et al. **Arch Dis Child** 1997 Jul;77(1):93

Significant progression of white matter lesions and small deep (lacunar) infarcts in patients with stroke. van Zagten M, et al. **Arch Neurol** 1996 Jul;53(7):650–5

Obstetric complications and age-related changes in brain morphology in schizophrenia. Smith GN, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1200–8

Smoke signals. Love MH, et al. **Br J Radiol** 1997 Apr; 70:427–8

Use of structural imaging to study the progression of Alzheimer's disease. Smith AD, et al. **Br Med Bull** 1996 Jul;52(3):575–86 (35 ref.)

Regional HmPAO SPECT and CT measurements in the diagnosis of Alzheimer's disease. Mattman A, et al. **Can J Neurol Sci** 1997 Feb;24(1):22–8

Auditory P300, CT scans and cognitive state in Binswanger's disease. Chen CF, et al. **Chin J Physiol** 1997;40(1):19–24

CT and MRI findings of eclampsia and their correlation with neurologic symptoms. Chang WN, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Mar;57(3):191–7

Multiple brain atlas database and atlas-based neuroimaging system. Nowinski WL, et al. **Comput Aided Surg** 1997; 2(1):42–66

Segmentation of multivariate medical images via unsupervised clustering with "adaptive resolution". Schenone A, et al. **Comput Med Imaging Graph** 1996 May–Jun;20(3):119–29

Management protocol for an enhancing cerebral lesion in HIV infection. Finelli PF. **Conn Med** 1996 Nov; 60(11):649–51

What the eyes perceive, the brain ignores: a case of pure unilateral representational neglect. Beschin N, et al. **Cortex** 1997 Mar;33(1):3–26

Schizencephaly: neuroradiologic and epileptologic findings. Granata T, et al. **Epilepsia** 1996 Dec;37(12):1185–93

CT and MRI findings after stereotactic resection of brain lesions. Herman M, et al. **Eur J Radiol** 1996 Nov; 23(3):228–34

Central pontine myelinolysis: CT technique [letter] Scheck RJ. **Eur Radiol** 1997;7(7):1139–40

Prospective optimization of patient selection for emergency cranial computed tomography: univariate and multivariate analyses. Reinus WR, et al. **Invest Radiol** 1996 Feb; 31(2):101–8

Changes in CSF spaces differ in endogenous and neurotic depression. A planimetric CT scan study. Baumann B, et al. **J Affect Disord** 1997 Sep;45(3):179–88

Postinflammatory hydrocephalus and intracranial mass lesion from Candida in an immunocompetent child. Mason TB 2nd, et al. **J Child Neurol** 1996 Jul;11(4):336–41

CT and MR findings of neuroacanthocytosis. Okamoto K, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):221–2

Comparison and evaluation of retrospective intermodality brain image registration techniques. West J, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):554–66

Evolution of the neuroimaging changes in fucosidosis type II. Terespolsky D, et al. **J Inherit Metab Dis** 1996; 19(6):775–81

Castleman's disease restricted to the infratemporal fossa. Rodrigo JP, et al. **J Laryngol Otol** 1996 Sep;110(9):896–8

Metastatic oligodendroglioma. Case report. Monzani V, et al. **J Neurosurg Sci** 1996 Sep–Dec;40(3–4):239–41

Chloral hydrate versus midazolam sedation for neuroimaging studies [letter; comment] Hollman GA. **J Pediatr** 1996 Dec; 129(6):944–5. Comment on: J Pediatr 1996 Apr;128(4):573–6.

Microcephaly due to fetal brain disruption sequence. Case report. Gabis L, et al. **J Perinat Med** 1997;25(2):213–5

Computerised tomography scans of the head [letter; comment] Connolly CK. **J R Coll Physicians Lond** 1997 Mar–Apr;31(2):223–4. Comment on: J R Coll Physicians Lond 1996 Nov–Dec;30(6);547–50.

Computerised tomography scans of the head in a district general hospital [see comments] Nixon J, et al. **J R Coll Physicians Lond** 1996 Nov–Dec;30(6):547–50. Comment in: J R Coll Physicians Lond 1997 Mar–Apr;31(2):223–4.

High resolution single photon emission computed tomography of the brain in Wegener's granulomatosis [letter] Marienhagen J, et al. **J Rheumatol** 1996 Oct; 23(10):1828–30

Clinical correlates of CT abnormality in generalized childhood epilepsy in India. Kumar R, et al. **J Trop Pediatr** 1997 Aug;43(4):199–203

Positron emission tomography, magnetic resonance imaging and proton NMR spectroscopy of white matter in multiple sclerosis. Schiepers C, et al. **Mult Scler** 1997 Feb;3(1):8–17

Diagnostic imaging contribution in the early stages of HIV infection of the brain. Trotot PM, et al. **Neuroimaging Clin N Am** 1997 May;7(2):243–60 (92 ref.)

CT and MRI in a girl with late-onset ornithine transcarbamylase deficiency: case report. Bajaj SK, et al. **Neuroradiology** 1996 Nov;38(8):796–9

Cranial computed tomography scans of premature babies predict their eventual learning disabilities. Ishida A, et al. **Pediatr Neurol** 1997 May;16(4):319–22

Minimum cross-entropy reconstruction of PET images using prior anatomical information. Ardekani BA, et al. **Phys Med Biol** 1996 Nov;41(11):2497–517

Computed tomography using algebraic reconstruction techniques (ARTs) with different projection access schemes: a comparison study under practical situations. Guan H, et al. **Phys Med Biol** 1996 Sep;41(9):1727–43

Imaging the living human brain: magnetic resonance imaging and positron emission tomography. Volkow ND, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2787–8

Evaluation of an on-line patient exposure meter in neuroradiology. Gkanatsios NA, et al. **Radiology** 1997 Jun; 203(3):837–42

Cerebral circulatory changes during migraine headache with aura. Meyer JS, et al. **Rev Neurosci** 1993 Jul–Sep; 4(3):305–19 (68 ref.)

The value of routine computed tomography of the brain in the pre-operative assessment of patients for carotid endarterectomy. Stuve O, et al. **S Afr Med J** 1996 Nov; 86(11):1420–2

CT and MR findings in central pontine and extrapontine myelinolysis--a study of two patients. Huin E, et al. **Singapore Med J** 1996 Dec;37(6):622–6

Intraoperative imaging of the brain. Lunsford LD, et al. **Stereotact Funct Neurosurg** 1996;66(1-3):58–64

Dynamics of polymorphonuclear leukocyte accumulation in acute cerebral infarction and their correlation with brain tissue damage. Akopov SE, et al. **Stroke** 1996 Oct; 27(10):1739–43

Localization of lesion in denial of hemiplegia after acute stroke. Ellis S, et al. **Stroke** 1997 Jan;28(1):67–71

Xenon contrast CT-CBF measurements in high-intensity foci on T2-weighted MR images in centrum semiovale of asymptomatic individuals. Miyazawa N, et al. **Stroke** 1997 May;28(5):984–7

Radiology aids psychiatry [letter] DeFord HA. **Tex Med** 1996 Apr;92(4):8

[Correlation of neuropsychological tests and density of brain white matter in schizophrenia] Preiss J, et al. **Ceska Slov Psychiatr** 1996 Feb;92(1):3–17 (Eng. Abstr.) **(Cze)**

[Intracranial physiological calcifications] Merran S. **Presse Med** 1997 Mar 15;26(8):396 **(Fre)**

[Correlation of regional cerebral blood flow between Xe-CT and 133Xe-SPECT: validity of Xe-CT in evaluating rCBF] Haku T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct;56(12):828–33 (Eng. Abstr.) **(Jpn)**

[Radiological anatomy of the vein of Labbé] Maehara F, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May; 57(6):305–13 (Eng. Abstr.) **(Jpn)**

[Spontaneous intracranial hypotension with severe headache and typical neuroradiological findings: report of two cases] Kinoshita Y, et al. **No Shinkei Geka** 1997 May;25(5):437–42 (Eng. Abstr.) **(Jpn)**

[Craniocerebral imaging in children with short stature] Barros L, et al. **Acta Med Port** 1997 May;10(5):361–5 (Eng. Abstr.) **(Por)**

[A computed tomographic study of epilepsy in children: the primary diagnosis of a brain tumor] Alikhanov AA, et al. **Zh Nevrol Psikhiatr Im S S Korsakova** 1997;97(8):13–7 (Eng. Abstr.) **(Rus)**

[The neuroradiological aspects of infantile spasms] Kalinina LV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997; 97(1):37–40 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Regional glucose metabolic rates in the human brain: a PET study. Gulyás B, et al. **Acta Biol Hung** 1996;47(1-4):157–72

Brain perfusion SPECT and EEG findings in Rett syndrome. Lappalainen R, et al. **Acta Neurol Scand** 1997 Jan; 95(1):44–50

Cerebral infarction in incontinentia pigmenti: the first report of a case evaluated by single photon emission computed tomography. Kasai T, et al. **Acta Paediatr** 1997 Jun; 86(6):665–7

Signal sources in PET. Herholz K. **Adv Exp Med Biol** 1997; 413:43–51 (44 ref.)

Decreases in dopamine receptors but not in dopamine transporters in alcoholics. Volkow ND, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1594–8

Technetium-99m-HMPAO brain SPECT in patients with syndrome X. Weidmann B, et al. **Am J Cardiol** 1997 Apr 1;79(7):959–61

Use of positron emission tomography and evoked potentials in the detection of cortical afferents from the gastrointestinal tract. Rothstein RD, et al. **Am J Gastroenterol** 1996 Nov;91(11):2372–6

Reduced serotonin responsivity in depression [letter; comment] Brown GM. **Am J Psychiatry** 1997 Mar; 154(3):442. Comment on: Am J Psychiatry 1996 Feb;153(2):174–82.

Neuroanatomical correlates of happiness, sadness, and disgust. Lane RD, et al. **Am J Psychiatry** 1997 Jul; 154(7):926–33

Images in neuroscience. SPECT imaging of synaptic dopamine. Laruelle M, et al. **Am J Psychiatry** 1996 Oct; 153(10):1249

Preferential metabolic involvement of visual cortical areas in a subtype of Alzheimer's disease: clinical implications. Pietrini P, et al. **Am J Psychiatry** 1996 Oct;153(10):1261–8

Neuroanatomical correlates of externally and internally generated human emotion. Reiman EM, et al. **Am J Psychiatry** 1997 Jul;154(7):918–25

Dopamine reuptake site densities in patients with social phobia. Tiihonen J, et al. **Am J Psychiatry** 1997 Feb; 154(2):239–42

Regional brain activity changes associated with fentanyl analgesia elucidated by positron emission tomography [published erratum appears in Anesth Analg 1997 May;84(5):949] Adler LJ, et al. **Anesth Analg** 1997 Jan; 84(1):120–6

In vivo imaging of nitrous oxide-induced changes in cerebral activation during noxious heat stimuli. Gyulai FE, et al. **Anesthesiology** 1997 Mar;86(3):538–48

Three years on clomipramine: before and after brain SPECT study. Amen DG, et al. **Ann Clin Psychiatry** 1997 Jun; 9(2):113–6

High-resolution brain SPECT imaging in ADHD. Amen DG, et al. **Ann Clin Psychiatry** 1997 Jun;9(2):81–6

A positron emission tomographic study of symptom provocation in PTSD. Shin LM, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:521–3

Interventional brain SPECT--a review. Biersack HJ, et al. **Ann Nucl Med** 1996 Aug;10(3):277–80 (19 ref.)

Nasal mucosal thickening simulating a tumor: potential for misdiagnosis in brain perfusion imaging. Flores LG 2nd, et al. **Ann Nucl Med** 1996 Aug;10(3):343–6

A method for the quantification of benzodiazepine receptors by using 123I-iomazenil and SPECT with one scan and one blood sampling. Ito H, et al. **Ann Nucl Med** 1997 May; 11(2):101–8

Evaluation of the brain uptake properties of [1-11C]labeled hexanoate in anesthetized cats by means of positron emission tomography. Sakiyama Y, et al. **Ann Nucl Med** 1996 Aug;10(3):361–6

Brain perfusion SPECT in neuro-Behçet's disease: discordance between Tc-99m-HMPAO and Tc-99m-ECD. Shuke N, et al. **Ann Nucl Med** 1996 Aug; 10(3):353–6

Simplified quantification of regional cerebral blood flow with 99mTc-ECD SPECT and continuous arterial blood sampling. Yonekura Y, et al. **Ann Nucl Med** 1996 May; 10(2):177–83

Radiolabeled ligands for imaging the muscarinic-cholinergic receptors of the heart and brain. Knapp FF Jr, et al. **Anticancer Res** 1997 May-Jun;17(3B):1559–72 (63 ref.)

Positron emission tomography measurement of cerebral metabolic correlates of tryptophan depletion-induced depressive relapse. Bremner JD, et al. **Arch Gen Psychiatry** 1997 Apr;54(4):364–74

Positron emission tomography measurement of cerebral metabolic correlates of yohimbine administration in combat-related posttraumatic stress disorder. Bremner JD, et al. **Arch Gen Psychiatry** 1997 Mar;54(3):246–54

Crossed aphasia. Functional brain imaging with PET or SPECT. Bakar M, et al. **Arch Neurol** 1996 Oct; 53(10):1026–32 (36 ref.)

Biological imaging and the molecular basis of dopaminergic diseases. Barrio JR, et al. **Biochem Pharmacol** 1997 Aug 1;54(3):341–8 (94 ref.)

Brain hypometabolism of glucose in anorexia nervosa: normalization after weight gain. Delvenne V, et al. **Biol Psychiatry** 1996 Oct 15;40(8):761–8

Brain metabolism patterns are sensitive to attentional effort associated with a tone recognition task. Holcomb HH, et al. **Biol Psychiatry** 1996 Jun 15;39(12):1013–22

Functional imaging, affective disorder and dementia. Goodwin GM. **Br Med Bull** 1996 Jul;52(3):495–512 (93 ref.)

Psychopharmacology--in vivo neurochemistry and pharmacology. Grasby P, et al. **Br Med Bull** 1996 Jul; 52(3):513–26 (41 ref.)

Functional localization of the system for visuospatial attention using positron emission tomography. Nobre AC, et al. **Brain** 1997 Mar;120 (Pt 3):515–33

Brain functional profiles in formal and semantic fluency tasks: a SPECT study in normals. Cardebat D, et al. **Brain Lang** 1996 Feb;52(2):305–13

A critical review of PET studies of phonological processing. Poeppel D. **Brain Lang** 1996 Dec;55(3):317–51; discussion 352–85 (66 ref.)

Functional anatomy of GO/NO-GO discrimination and response selection--a PET study in man. Kawashima R, et al. **Brain Res** 1996 Jul 22;728(1):79–89

Functional imagining of human visual recognition. Kanwisher N, et al. **Brain Res Cogn Brain Res** 1996 Dec; 5(1-2):55–67 (39 ref.)

Long-term treatment with the tetrahydropyridine analog (HPTP) of haloperidol influences dopamine ligand binding in baboon brain. An [123I]iodobenzamide (IBZM) SPECT study. Van der Schyf CJ, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):251–8

Regional HmPAO SPECT and CT measurements in the diagnosis of Alzheimer's disease. Mattman A, et al. **Can J Neurol Sci** 1997 Feb;24(1):22–8

A review of functional neuroimaging in mood disorders: positron emission tomography and depression. Kennedy SH, et al. **Can J Psychiatry** 1997 Jun;42(5):467–75 (82 ref.)

Novelty and familiarity activations in PET studies of memory encoding and retrieval. Tulving E, et al. **Cereb Cortex** 1996 Jan–Feb;6(1):71–9

PET studies of phonetic processing of speech: review, replication, and reanalysis. Zatorre RJ, et al. **Cereb Cortex** 1996 Jan–Feb;6(1):21–30

Synthesis and characterization of radioiodinated (S)-5-iodonicotine: a new ligand for potential imaging of brain nicotinic cholinergic receptors by single photon emission computed tomography. Saji H, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):284–90

The study of neurotransmitter interactions using positron emission tomography and functional coupling. Schloesser R, et al. **Clin Neuropharmacol** 1996 Oct;19(5):371–89 (120 ref.)

Cerebral perfusion SPECT imaging in epileptic and nonepileptic seizures. Blend MJ, et al. **Clin Nucl Med** 1997 Jun;22(6):363–8

Delayed ischemia due to cerebral vasospasm occult to transcranial Doppler. An important role for cerebral perfusion SPECT. Lewis DH, et al. **Clin Nucl Med** 1997 Apr;22(4):238–40

Findings on Tc-99m HMPAO brain imaging in brain death. Lu G, et al. **Clin Nucl Med** 1996 Nov;21(11):891–3

Discordant uptake of dual pharmaceuticals on brain SPECT in meningioma. Sakow NK, et al. **Clin Nucl Med** 1996 Nov; 21(11):900–1

Brain SPECT imaging in a patient with epilepsy and memory dysfunction. Terada T, et al. **Clin Nucl Med** 1997 May; 22(5):337

Music alexia in a patient with mild pure alexia: disturbed visual perception of nonverbal meaningful figures. Horikoshi T, et al. **Cortex** 1997 Mar;33(1):187–94

The Gilles de la Tourette syndrome. Robertson MM, et al. **Crit Rev Neurobiol** 1997;11(1):1–19 (207 ref.)

Imaging the brain of migraine sufferers. Flippen C, et al. **Curr Opin Neurol** 1997 Jun;10(3):226–30 (32 ref.)

Functional neuroimaging: radiology. Hunter JV. **Curr Opin Neurol** 1996 Feb;9(1):37–41 (42 ref.)

Functional neuroimaging with positron emission tomography. Henry TR. **Epilepsia** 1996 Dec;37(12):1141–54 (124 ref.)

Musicogenic epilepsy: review of the literature and case report with ictal single photon emission computed tomography. Wieser HG, et al. **Epilepsia** 1997 Feb;38(2):200–7 (32 ref.)

Three-dimensional visualization and quantification of the benzodiazepine receptor population within a living human brain using PET and MRI. Fauli S, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(2):61–70

Functional anatomy of visuomotor skill learning in human subjects examined with positron emission tomography. Doyon J, et al. **Eur J Neurosci** 1996 Apr;8(4):637–48

A critique of a new analysis proposed for functional neuroimaging [see comments] [published erratum appears in Eur J Neurosci 1996 Dec;8(12):2758] Frackowiak RS, et al. **Eur J Neurosci** 1996 Nov;8(11):2229–31. Comment in: Eur J Neurosci 1996 Nov;8(11):2232–5.

Assumptions and validations of statistical tests for functional neuroimaging [see comments] Roland PE, et al. **Eur J Neurosci** 1996 Nov;8(11):2232–5. Comment in: Eur J Neurosci 1996 Nov;8(11):2229–31.

Multivariate cluster analysis of dynamic iodine-123 iodobenzamide SPET dopamine D2 receptor images in schizophrenia. Acton PD, et al. **Eur J Nucl Med** 1997 Feb; 24(2):111–8

In vitro and in vivo characterisation of nor-beta-CIT: a potential radioligand for visualisation of the serotonin transporter in the brain. Bergström KA, et al. **Eur J Nucl Med** 1997 Jun;24(6):596–601

Synthesis and in vivo studies of a specific monoamine oxidase B inhibitor: 5-[4-(benzyloxy)phenyl]-3-(2-cyanoethyl)-1,3,4-oxadiazol-[11C]-2(3H)-one. Bernard S, et al. **Eur J Nucl Med** 1996 Feb;23(2):150–6

Practical benefit of [123I]FP-CIT SPET in the demonstration of the dopaminergic deficit in Parkinson's

disease. Booij J, et al. **Eur J Nucl Med** 1997 Jan;24(1):68–71
Assessment of endogenous dopamine release by methylphenidate challenge using iodine–123 iodobenzamide single–photon emission tomography. Booij J, et al. **Eur J Nucl Med** 1997 Jun;24(6):674–7
Initial evaluation of 123I–5–I–R91150, a selective 5–HT2A ligand for single–photon emission tomography, in healthy human subjects [published erratum appears in Eur J Nucl Med 1997 Jun;24(6):707] Busatto GF, et al. **Eur J Nucl Med** 1997 Feb;24(2):119–24
Regional cerebral blood flow pattern in normal young and aged volunteers: a 99mTc–HMPAO SPET study. Catafau AM, et al. **Eur J Nucl Med** 1996 Oct;23(10):1329–37
Demonstration of a reduction in muscarinic receptor binding in early Alzheimer's disease using iodine–123 dexetimide single–photon emission tomography. Claus JJ, et al. **Eur J Nucl Med** 1997 Jun;24(6):602–8
Brain perfusion scintigraphy with 99mTc–HMPAO or 99mTc–ECD and 123I–beta–CIT single–photon emission tomography in dementia of the Alzheimer–type and diffuse Lewy body disease. Donnemiller E, et al. **Eur J Nucl Med** 1997 Mar;24(3):320–5
Evaluation of two population–based input functions for quantitative neurological FDG PET studies. Eberl S, et al. **Eur J Nucl Med** 1997 Mar;24(3):299–304
Milestones [editorial; comment] Ell PJ. **Eur J Nucl Med** 1996 Nov;23(11):1441. Comment on: Eur J Nucl Med 1996 Nov;23(11):1527–30.
Enhancement of [123I]beta–CIT binding in the striatum with clomipramine: is there a serotonin–dopamine interaction? Fujita M, et al. **Eur J Nucl Med** 1997 Apr;24(4):403–8
Evaluation of SPET quantification of simultaneous emission and transmission imaging of the brain using a multidetector SPET system with the TEW scatter compensation method and fan–beam collimation. Ichihara T, et al. **Eur J Nucl Med** 1996 Oct;23(10):1292–9
Structural modification of receptor–binding technetium–99m complexes in order to improve brain uptake. Johannsen B, et al. **Eur J Nucl Med** 1997 Mar;24(3):316–9
Radioiodination of nicotine with specific activity high enough for mapping nicotinic acetylcholine receptors. Kämpfer I, et al. **Eur J Nucl Med** 1996 Feb;23(2):157–62
Assessing neuroreceptor occupancy by continuous infusion of carbon–11 labeled radioligands. Kao PF, et al. **Eur J Nucl Med** 1996 Feb;23(2):141–4
Technetium–99m hexamethylpropylene amine oxime single–photon emission tomography of regional cerebral blood flow in insulin–dependent diabetes. Keymeulen B, et al. **Eur J Nucl Med** 1996 Feb;23(2):163–8
Striatal and extrastriatal imaging of dopamine D2 receptors in the living human brain with [123I]epidepride single–photon emission tomography. Kuikka JT, et al. **Eur J Nucl Med** 1997 May;24(5):483–7
Discrepancy between blood flow and muscarinic receptor distribution in rat brain after middle cerebral artery occlusion. Kuji I, et al. **Eur J Nucl Med** 1997 Jun; 24(6):665–9
Imaging of dopamine transporters in humans with technetium–99m TRODAT–1 [see comments] Kung HF, et al. **Eur J Nucl Med** 1996 Nov;23(11):1527–30. Comment in: Eur J Nucl Med 1996 Nov;23(11):1441. Comment in: Eur J Nucl Med 1997 Apr;24(4):462–3.
[99mTc]TRODAT–1: a novel technetium–99m complex as a dopamine transporter imaging agent. Kung MP, et al. **Eur J Nucl Med** 1997 Apr;24(4):372–80
Use of carbon–11 nicotine in PET studies [letter; comment] Lundqvist H, et al. **Eur J Nucl Med** 1997 Jul;24(7):825–6 . Comment on: Eur J Nucl Med 1996 Aug;23(8):1012–4.
Autoradiographic imaging of cerebral ischaemia using a combination of blood flow and hypoxic markers in an animal model. Lythgoe MF, et al. **Eur J Nucl Med** 1997 Jan;24(1):16–20
Imaging of dopamine transporters in humans with technetium–99m TRODAT–1 [letter; comment] Meltzer PC, et al. **Eur J Nucl Med** 1997 Apr;24(4):462–3. Comment on: Eur J Nucl Med 1996 Nov;23(11):1527–30.
Effects of aging on the cerebral distribution of technetium–99m hexamethylpropylene amine oxime in healthy humans. Mozley PD, et al. **Eur J Nucl Med** 1997 Jul;24(7):754–61
Delayed image of iodine–123 iomazenil as a relative map of benzodiazepine receptor binding: the optimal scan time. Onishi Y, et al. **Eur J Nucl Med** 1996 Nov;23(11):1491–7
Brain glucose utilization in systemic lupus erythematosus with neuropsychiatric symptoms: a controlled positron emission tomography study. Otte A, et al. **Eur J Nucl Med** 1997 Jul;24(7):787–91
Comparison of PET, SPET, neuropsychological and morphological findings in vascular dementia [letter; comment] Sabri O, et al. **Eur J Nucl Med** 1997 Mar; 24(3):348–9. Comment on: Eur J Nucl Med 1996 Oct;23(10):1338–44.
Vascular dementia of Binswanger's type: clinical, neuroradiological and 99mTc–HMPAO SPET study [see comments] Shyu WC, et al. **Eur J Nucl Med** 1996 Oct; 23(10):1338–44. Comment in: Eur J Nucl Med 1997 Mar;24(3):348–9.
Positron emission tomographic investigations of central muscarinic cholinergic receptors with three isomers of [76Br]BrQNP. Strijckmans V, et al. **Eur J Nucl Med** 1997 May;24(5):475–82
Presurgical identification of epileptic foci with iodine–123 iomazenil SPET: comparison with brain perfusion SPET and FDG PET. Tanaka F, et al. **Eur J Nucl Med** 1997 Jan;24(1):27–34
Relationship between clinical features of Parkinson's disease and presynaptic dopamine transporter binding assessed with [123I]IPT and single–photon emission tomography. Tatsch K, et al. **Eur J Nucl Med** 1997 Apr;24(4):415–21
Regional cerebral perfusion in cardiovascular reflex syncope. Töyry JP, et al. **Eur J Nucl Med** 1997 Feb;24(2):215–8
Dementia with lewy bodies: a study of post–synaptic dopaminergic receptors with iodine–123 iodobenzamide single–photon emission tomography. Walker Z, et al. **Eur J Nucl Med** 1997 Jun;24(6):609–14
Prognostic value of single–photon emission tomography in acute ischaemic stroke. Weir CJ, et al. **Eur J Nucl Med** 1997 Jan;24(1):21–6
Is image subtraction necessary in the clinical interpretation of single–day split–dose stress cerebral perfusion single–photon emission tomography using technetium–99m compounds? Wong CO, et al. **Eur J Nucl Med** 1996 Oct; 23(10):1309–14
Evaluation of the limits of visual detection of image misregistration in a brain fluorine–18 fluorodeoxyglucose PET–MRI study. Wong JCH, et al. **Eur J Nucl Med** 1997 Jun;24(6):642–50
Neurotransmitter positron emission tomographic–studies in adults with phenylketonuria, a pilot study. Paans AM, et al. **Eur J Pediatr** 1996 Jul;155 Suppl 1:S78–81
Regional cerebral blood flow in the covert reading of kana words: a comparison with the study of reading aloud tasks. Sakurai Y, et al. **Eur Neurol** 1996;36(4):237–9
Localization of grasp representations in humans by positron emission tomography. 2. Observation compared with imagination. Grafton ST, et al. **Exp Brain Res** 1996 Nov; 112(1):103–11
Brain SPECT and stroke prognosis. Alexandrov AV, et al. **Funct Neurol** 1996 Jul–Aug;11(4):167–71, 175–8 (55 ref.)
Regional cerebral activity in normal and pathological perception of visceral pain. Silverman DH, et al. **Gastroenterology** 1997 Jan;112(1):64–72
The application of positron emission tomography to the study of the normal menstrual cycle. Reiman EM, et al. **Hum Reprod** 1996 Dec;11(12):2799–805
Characterization of dynamic 3–D PET imaging for functional brain mapping. Barnes D, et al. **IEEE Trans Med Imaging** 1997 Jun;16(3):261–9
A head motion measurement system suitable for emission computed tomography. Goldstein SR, et al. **IEEE Trans Med Imaging** 1997 Feb;16(1):17–27
Motion correction of PET images using multiple acquisition frames. Picard Y, et al. **IEEE Trans Med Imaging** 1997 Apr;16(2):137–44
Functional imaging in treatment planning of brain lesions. Hamilton RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):181–8
Alpha–pattern coma in primary brainstem hemorrhage; clinical, electrophysiologic, and cerebral blood flow studies. Hayashi R, et al. **Intern Med** 1996 Nov;35(11):905–8
Isotope brain scanning with Tc–HMPAO: a predictor of outcome in carbon monoxide poisoning? Turner M, et al. **J Accid Emerg Med** 1997 May;14(3):139–41
Cocaine addiction: hypothesis derived from imaging studies with PET. Volkow ND, et al. **J Addict Dis** 1996; 15(4):55–71 (49 ref.)
Simultaneous intracerebral microdialysis and positron emission tomography in the detection of ischemia in patients with subarachnoid hemorrhage. Enblad P, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):637–44
Quantitation of regional cerebral blood flow with 15O–butanol and positron emission tomography in humans. Herzog H, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):645–9
MR–based correction of brain PET measurements for heterogeneous gray matter radioactivity distribution. Meltzer CC, et al. **J Cereb Blood Flow Metab** 1996 Jul; 16(4):650–8
Frequency–dependent changes of regional cerebral blood flow during finger movements: functional MRI compared to PET. Sadato N, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):670–9
Central nervous system perfusion and metabolism abnormalities in Sturge–Weber syndrome. Reid DE, et al. **J Child Neurol** 1997 Apr;12(3):218–22
Dopamine D2 receptor imaging and neuroleptic drug response. Heinz A, et al. **J Clin Psychiatry** 1996;57 Suppl 11:84–8; discussion 89–93
Neuroimaging and genetic assessment for early diagnosis of Alzheimer's disease. Small GW. **J Clin Psychiatry** 1996;57 Suppl 14:9–13 (41 ref.)
Implementation and validation of a fully automatic system for intra– and interindividual registration of PET brain scans. Andersson JL, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):136–44
Simultaneous emission and transmission (SET) scanning in neurological PET studies. Meikle SR, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):487–97
Comparison and evaluation of retrospective intermodality brain image registration techniques. West J, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):554–66
Hypoperfusion of brain single photon emission computerized tomography in patients with antiphospholipid antibodies. Kato T, et al. **J Dermatol Sci** 1997 Jan;14(1):20–8
Xenon effects on regional cerebral blood flow assessed by 15O–H2O positron emission tomography: implications for hyperpolarized xenon MRI. Liotti M, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):761–4
A technetium–99m SPECT imaging agent which targets the dopamine transporter in primate brain. Meltzer PC, et al. **J Med Chem** 1997 Jun 6;40(12):1835–44
Novel 99mTc aminobisthiolato/monothiolato "3 + 1" mixed ligand complexes: structure–activity relationships and preliminary in vivo validation as brain blood flow imaging agents. Pirmettis IC, et al. **J Med Chem** 1997 Aug 1; 40(16):2539–46
Measurement of the dopaminergic degeneration in Parkinson's disease with [123I] beta–CIT and SPECT. Correlation with clinical findings and comparison with multiple system atrophy and progressive supranuclear palsy. Brücke T, et al. **J Neural Transm Suppl** 1997;50:9–24
IBZM– and CIT–SPECT of the dopaminergic system in parkinsonism. Tissingh G, et al. **J Neural Transm Suppl** 1997;50:31–7 (38 ref.)
Feasibility of SPECT for studies of brain perfusion during cardiopulmonary bypass. Marochnik S, et al. **J Neuroimaging** 1996 Oct;6(4):243–5
Positron emission tomography studies of sleep and sleep disorders. Maquet P. **J Neurol** 1997 Apr;244(4 Suppl 1):S23–8 (46 ref.)
The effect of carotid endarterectomy on cerebral blood flow and cerebral blood volume studied by SPECT. Lishmanov Y, et al. **J Neuroradiol** 1997 Aug;24(2):155–62
Age–related differences in neural activity during memory encoding and retrieval: a positron emission tomography study. Cabeza R, et al. **J Neurosci** 1997 Jan 1;17(1):391–400
Effects of binge pattern cocaine administration on dopamine D1 and D2 receptors in the rat brain: an in vivo study using positron emission tomography. Tsukada H, et al. **J Neurosci** 1996 Dec 1;16(23):7670–7
Images of the working brain: understanding human brain function with positron emission tomography. Watson JD. **J Neurosci Methods** 1997 Jun 27;74(2):245–56 (68 ref.)
Ethical clinical practice of functional brain imaging. Society of Nuclear Medicine Brain Imaging Council. **J Nucl Med** 1996 Jul;37(7):1256–9
SPECT imaging of dopamine transporters in human brain with iodine–123–fluoroalkyl analogs of beta–CIT. Abi–Dargham A, et al. **J Nucl Med** 1996 Jul;37(7):1129–33
Brain SPECT and thrombolysis in acute ischemic stroke: time for a clinical trial. Alexandrov AV, et al. **J Nucl Med** 1996 Jul;37(7):1259–62
Weighted summation of oxygen–15–water PET data to increase signal–to–noise ratio for activation studies. Andersson JL, et al. **J Nucl Med** 1997 Feb;38(2):334–40
Demonstration of frontal hypoperfusion in benign exertional headache by Technetium–99m–HMPAO SPECT. Başoglu T, et al. **J Nucl Med** 1996 Jul;37(7):1172–4
Cerebral SPECT imaging: effect on clinical management [see comments] Bloom M, et al. **J Nucl Med** 1996 Jul; 37(7):1070–3. Comment in: J Nucl Med 1996 Jul;37(7):1073–4.
Increased cerebral blood flow in depressed patients responding to electroconvulsive therapy. Bonne O, et al. **J Nucl Med** 1996 Jul;37(7):1075–80
Cocaine congeners as PET imaging probes for dopamine terminals. Brownell AL, et al. **J Nucl Med** 1996 Jul; 37(7):1186–92
Controversies arising from recent FDOPA articles [letter; comment] [see comments] Cumming P, et al. **J Nucl Med** 1997 Aug;38(8):1267–71. Comment on: J Nucl Med 1996 Feb;37(2):209–16. Comment on: J Nucl Med 1996 Feb;37(2):216–22. Comment on: J Nucl Med 1996 Mar;37(3):432–7. Comment in: J Nucl Med 1997 Aug;38(8):1267–71.
Age–related diminution of dopamine antagonist–stimulated vesamicol receptor binding. Efange SM, et al. **J Nucl Med** 1996 Jul;37(7):1192–7
Preparation and biological evaluation of iodine–125–IACFT: a selective SPECT agent for imaging dopamine transporter sites. Elmaleh DR, et al. **J Nucl Med** 1996 Jul; 37(7):1197–202
A spheroid positron emission tomograph for brain imaging: a feasibility study. Ficke DC, et al. **J Nucl Med** 1996 Jul; 37(7):1219–25
FDG hypermetabolism associated with inflammatory necrotic changes following radiation of meningioma. Fischman AJ, et al. **J Nucl Med** 1997 Jul;38(7):1027–9
Cerebral hypoperfusion in orthostatic hypotension with globally denervated myocardium. Fukuoka S, et al. **J Nucl Med** 1996 Nov;37(11):1824–6
ECT treatment and cerebral perfusion in Catatonia. Galynker II, et al. **J Nucl Med** 1997 Feb;38(2):251–4
Regional methionine and glucose uptake in high–grade gliomas: a comparative study on PET–guided stereotactic biopsy. Goldman S, et al. **J Nucl Med** 1997 Sep; 38(9):1459–62
Fluorine–18–FPCT: a PET radiotracer for imaging dopamine transporters. Goodman MM, et al. **J Nucl Med** 1997 Jan; 38(1):119–26
Scatter and attenuation correction in technetium–99m brain SPECT. Hashimoto J, et al. **J Nucl Med** 1997 Jan; 38(1):157–62
One–day protocol for cerebral perfusion reserve with acetazolamide. Hattori N, et al. **J Nucl Med** 1996 Dec; 37(12):2057–61

Frankly, my dear, I don't give a damn [editorial; comment] Henkin RE. **J Nucl Med** 1996 Jul;37(7):1073–4. Comment on: J Nucl Med 1996 Jul;37(7):1070–3.

Fluorine–18–FPH for PET imaging of nicotinic acetylcholine receptors. Horti A, et al. **J Nucl Med** 1997 Aug; 38(8):1260–5

Brain SPECT with dipyridamole stress to evaluate cerebral blood flow reserve in carotid artery disease. Hwang TL, et al. **J Nucl Med** 1996 Oct;37(10):1595–9

SPECT imaging of dopamine receptors [editorial; comment] Ichise M, et al. **J Nucl Med** 1996 Oct;37(10):1591–5. Comment on: J Nucl Med 1996 Oct;37(10):1589–91.

Simplified quantification and reproducibility studies of dopamine D2–receptor binding with iodine–123–IBF SPECT in healthy subjects. Ichise M, et al. **J Nucl Med** 1997 Jan;38(1):31–7

Noninvasive quantification of dopamine D2 receptors with iodine–123–IBF SPECT. Ichise M, et al. **J Nucl Med** 1996 Mar;37(3):513–20

Regional differences in technetium–99m–ECD clearance on brain SPECT in healthy subjects. Ichise M, et al. **J Nucl Med** 1997 Aug;38(8):1253–60

Physiologic modeling of PET data: quantitative conflict and challenge [editorial; comment] Ichise M, et al. **J Nucl Med** 1997 Aug;38(8):1266–7. Comment on: J Nucl Med 1997 Aug;38(8):1267–71. Comment on: J Nucl Med 1997 Aug;38(8):1271–2.

Regional difference in cerebral blood flow and oxidative metabolism in human cortex. Ishii K, et al. **J Nucl Med** 1996 Jul;37(7):1086–8

Extraction and retention of technetium–99m–ECD in human brain: dynamic SPECT and oxygen–15–water PET studies. Ishizu K, et al. **J Nucl Med** 1996 Oct;37(10):1600–4

Iodine–123–5–iodo–6–nitroquipazine: SPECT radiotracer to image the serotonin transporter. Jagust WJ, et al. **J Nucl Med** 1996 Jul;37(7):1207–14

Brain SPECT evaluation of patients with pure photosensitive epilepsy. Kapucu LO, et al. **J Nucl Med** 1996 Nov; 37(11):1755–9

Three–dimensional imaging characteristics of the HEAD PENN–PET scanner. Karp JS, et al. **J Nucl Med** 1997 Apr;38(4):636–43

Asymmetry of basal ganglia perfusion in Tourette's syndrome shown by technetium–99m–HMPAO SPECT. Klieger PS, et al. **J Nucl Med** 1997 Feb;38(2):188–91

SPECT imaging of normal subjects with technetium–99m–HMPAO and technetium–99m–ECD. Koyama M, et al. **J Nucl Med** 1997 Apr;38(4):587–92

Anterior operculum syndrome localized by SPECT. Lampl Y, et al. **J Nucl Med** 1997 Jul;38(7):1122–4

Comparison of iodine–123–epidepride and iodine–123–IBZM for dopamine D2 receptor imaging [see comments] Leslie WD, et al. **J Nucl Med** 1996 Oct;37(10):1589–91. Comment in: J Nucl Med 1996 Oct;37(10):1591–5.

Half–cone beam collimation for triple–camera SPECT systems. Li J, et al. **J Nucl Med** 1996 Mar;37(3):498–502

Technetium–99m–HMPAO brain SPECT in systemic lupus erythematosus with CNS involvement. Lin WY, et al. **J Nucl Med** 1997 Jul;38(7):1112–5

Modeling reality with emission tomography: what is the point? [editorial] Link JM. **J Nucl Med** 1996 Jul;37(7):1241

Reversible cerebral perfusion abnormalities associated with cyclosporine therapy in orthotopic liver transplantation [published erratum appears in J Nucl Med 1996 Jul;37(7):1263] Lorberboym M, et al. **J Nucl Med** 1996 Mar; 37(3):467–9

Brain perfusion imaging during preoperative temporary balloon occlusion of the internal carotid artery [see comments] Lorberboym M, et al. **J Nucl Med** 1996 Mar; 37(3):415–9. Comment in: J Nucl Med 1996 Mar;37(3):419–20.

Evaluation of technetium–99m–ECD in childhood epilepsy. Menzel C, et al. **J Nucl Med** 1996 Jul;37(7):1106–12

Measurement of regional cerebral blood flow with copper–62–PTSM and a three–compartment model. Okazawa H, et al. **J Nucl Med** 1996 Jul;37(7):1089–93

Measurement of regional cerebral plasma pool and hematocrit with copper–62–labeled HSA–DTS. Okazawa H, et al. **J Nucl Med** 1996 Jul;37(7):1080–5

Functional brain imaging in 200 patients after whiplash injury [letter] Otte A, et al. **J Nucl Med** 1997 Jun;38(6):1002

Ictal and interictal technetium–99m–bicisate brain SPECT in children with refractory epilepsy. Packard AB, et al. **J Nucl Med** 1996 Jul;37(7):1101–6

Temporary balloon occlusion, SPECT and carotid artery sacrifice [editorial; comment] Palestro CJ. **J Nucl Med** 1996 Mar;37(3):419–20. Comment on: J Nucl Med 1996 Mar;37(3):415–9.

Evaluating the significance of changes in brain SPECT [letter; comment] Pavel DG, et al. **J Nucl Med** 1997 May; 38(5):828–9. Comment on: J Nucl Med 1996 Mar;37(3):410–4.

Brain SPECT gets favorable review from neurology panel [news] Peter BM. **J Nucl Med** 1996 Jul;37(7):14N; 22N

Simplified calculation of MRglc using PET [letter] Phillips RL, et al. **J Nucl Med** 1997 Aug;38(8):1334

Determination of regional rate constants from dynamic FDG–PET studies in Parkinson's disease. Piert M, et al. **J Nucl Med** 1996 Jul;37(7):1115–22

Abnormal cerebral glucose metabolism in HIV–1 seropositive subjects with and without dementia. Rottenberg DA, et al. **J Nucl Med** 1996 Jul;37(7):1133–41

Regional cerebral blood flow and negative/positive symptoms in 24 drug–naive schizophrenics. Sabri O, et al. **J Nucl Med** 1997 Feb;38(2):181–8

Hyperperfusion and hypermetabolism in brain radiation necrosis with epileptic activity. Sasaki M, et al. **J Nucl Med** 1996 Jul;37(7):1174–6

Normal brain perfusion pattern of technetium–99m–ethylcysteinate dimer in children. Schiepers C, et al. **J Nucl Med** 1997 Jul;38(7):1115–20

Cerebral glucose metabolism during pharmacologic studies: test–retest under placebo conditions. Schmidt ME, et al. **J Nucl Med** 1996 Jul;37(7):1142–9

Iodine–123–iodobenzamide binding in parkinsonism: reduction by dopamine agonists but not L–Dopa. Schwarz J, et al. **J Nucl Med** 1996 Jul;37(7):1112–5

Technetium–99m–ECD brain SPECT in misery perfusion. Shimosegawa E, et al. **J Nucl Med** 1997 May;38(5):791–6

Decompression il■ss in sports divers detected with technetium–99m–HMPAO SPECT and texture analysis. Staff RT, et al. **J Nucl Med** 1996 Jul;37(7):1154–8

Normal fusion for three–dimensional integrated visualization of SPECT and magnetic resonance brain images. Stokking R, et al. **J Nucl Med** 1997 Apr;38(4):624–9

Brain perfusion SPECT in Lyme neuroborreliosis. Sumiya H, et al. **J Nucl Med** 1997 Jul;38(7):1120–2

Hyperfixation of copper–62–PTSM in rat brain after transient global ischemia. Taniuchi H, et al. **J Nucl Med** 1997 Jul; 38(7):1130–4

Nonlinearity correction of brain perfusion SPECT based on permeability–surface area product model. Tsuchida T, et al. **J Nucl Med** 1996 Jul;37(7):1237–41

Effect of haloperidol dose on iodine–123–IBZM brain SPECT imaging in schizophrenic patients. Vallabhajosula S, et al. **J Nucl Med** 1997 Feb;38(2):203–7

Cerebral metabolic differences in Parkinson's and Alzheimer's diseases matched for dementia severity. Vander Borght T, et al. **J Nucl Med** 1997 May; 38(5):797–802

Comparison of technetium–99m–HMPAO and technetium–99m–ECD cerebral SPECT images in Alzheimer's disease. van Dyck CH, et al. **J Nucl Med** 1996 Nov;37(11):1749–55

Imaging beta–adrenoceptors in the human brain with (S)–1'–[18F]fluorocarazolol. van Waarde A, et al. **J Nucl Med** 1997 Jun;38(6):934–9

Reproducibility and discriminating ability of fluorine–18–6–fluoro–L–Dopa PET in Parkinson's disease. Vingerhoets FJ, et al. **J Nucl Med** 1996 Mar;37(3):421–6

PET evaluation of the dopamine system of the human brain. Volkow ND, et al. **J Nucl Med** 1996 Jul;37(7):1242–56 (254 ref.)

Fluorine–18–FDG PET and iodine–123–IMT SPECT in the evaluation of brain tumors. Weber W, et al. **J Nucl Med** 1997 May;38(5):802–8

Viable neurons with luxury perfusion in hydrocephalus. Wong CY, et al. **J Nucl Med** 1997 Sep;38(9):1467–70

D2–like dopamine receptor density in Tourette syndrome measured by PET. Wong DF, et al. **J Nucl Med** 1997 Aug; 38(8):1243–7

Synthesis, in vivo evaluation and PET study of a carbon–11–labeled neuronal nitric oxide synthase (nNOS) inhibitor S–methyl–L–thiocitrulline. Zhang J, et al. **J Nucl Med** 1997 Aug;38(8):1273–8

Intrauterine stroke, cerebral injury, and seizures. Everett MF, et al. **J Perinatol** 1996 Nov–Dec;16(6):494–7

Evaluation of cerebral pharmacokinetics of the novel antidepressant drug, BMS–181101, by positron emission tomography. Christian BT, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):325–31

Functional activation of cerebral blood flow abolished by scopolamine is reversed by cognitive enhancers associated with cholinesterase inhibition: a positron emission tomography study in unanesthetized monkeys. Tsukada H, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1408–14

The first attempt at radioisotopic evaluation of the integrity of the nose–brain barrier. Okuyama S. **Life Sci** 1997; 60(21):1881–4

Automated three–dimensional registration of magnetic resonance and positron emission tomography brain images by multiresolution optimization of voxel similarity measures. Studholme C, et al. **Med Phys** 1997 Jan; 24(1):25–35

Neuroimaging in Wilson disease. van Wassenaer–van Hall HN. **Metab Brain Dis** 1996 Mar;12(1):1–19 (125 ref.)

Effects of new titanium cerebral aneurysm clips on MRI and CT images. Kato Y, et al. **Minim Invasive Neurosurg** 1996 Sep;39(3):82–5

DOPA decarboxylase [letter; comment] Gjedde A. **Mov Disord** 1996 Jul;11(4):462–3. Comment on: Mov Disord 1995 May;10(3):241–9.

Bilateral language representation demonstrated by language–activated SPECT and Wada test. Brint SU, et al. **Neurol Res** 1996 Jun;18(3):209–11

A direct comparison of PET activation and electrocortical stimulation mapping for language localization. Bookheimer SY, et al. **Neurology** 1997 Apr;48(4):1056–65

Unilateral hyperfusion in brain–perfusion SPECT predicts poor prognosis in acute encephalitis. Launes J, et al. **Neurology** 1997 May;48(5):1347–51

Regional hypometabolism in Alzheimer's disease as measured by positron emission tomography after correction for effects of partial volume averaging. Meltzer CC, et al. **Neurology** 1996 Aug;47(2):454–61

Signed and spoken language perception studied by positron emission tomography. Söderfeldt B, et al. **Neurology** 1997 Jul;49(1):82–7

The value of positron emission tomography in the diagnosis and monitoring of late infantile and juvenile lipopigment storage disorders (so–called Batten or neuronal ceroid lipofuscinoses). Philippart M, et al. **Neuropediatrics** 1997 Feb;28(1):74–6

PET regional cerebral blood flow change during working and declarative memory: relationship with task performance. Ragland JD, et al. **Neuropsychology** 1997 Apr;11(2):222–31

Effects of zolpidem on local cerebral glucose metabolism during non–REM sleep in normal volunteers: a positron emission tomography study. Gillin JC, et al. **Neuropsychopharmacology** 1996 Sep;15(3):302–13

Construction of a standard reference for PET studies of methionine accumulation using a computerised brain atlas. Romanowski CA, et al. **Neuroradiology** 1997 Jun; 39(6):389–93

Neural effects of visualizing and perceiving aversive stimuli: a PET investigation. Kosslyn SM, et al. **Neuroreport** 1996 Jul 8;7(10):1569–76

Cingulate function in depression: a potential predictor of treatment response. Mayberg HS, et al. **Neuroreport** 1997 Mar 3;8(4):1057–61

Brain regions supporting intentional and incidental memory: a PET study. Rugg MD, et al. **Neuroreport** 1997 Mar 24; 8(5):1283–7

Activation of the human brain by monetary reward. Thut G, et al. **Neuroreport** 1997 Mar 24;8(5):1225–8

Functional localization of pain perception in the human brain studied by PET. Xu X, et al. **Neuroreport** 1997 Jan 20; 8(2):555–9

Receptor imaging technique with 11C–labeled receptor ligands in living brain slices: its application to time–resolved imaging and saturation analysis of benzodiazepine receptor using [11C]Ro15–1788. Murata T, et al. **Neurosci Res** 1996 Jun;25(2):145–54

The effects of donor stage on the survival and function of embryonic striatal grafts in the adult rat brain. II. Correlation between positron emission tomography and reaching behaviour. Fricker RA, et al. **Neuroscience** 1997 Aug;79(3):711–21

Functional brain imaging with cerebral perfusion SPECT in cerebrovascular disease, epilepsy, and trauma. Lewis DH. **Neurosurg Clin N Am** 1997 Jul;8(3):337–44 (72 ref.)

Single photon emission computed tomography brain imaging. Mullan BP, et al. **Neurosurg Clin N Am** 1996 Oct; 7(4):617–51 (214 ref.)

Correlation of histopathological factor of brain tumor and high thallium–201 uptake in single photon emission computed tomography. Yoshii Y, et al. **Noshuyo Byori** 1996 Apr;13(1):61–5

Development of central 5–HT2A receptor radioligands for PET: comparison of [3H]RP 62203 and [3H]SR 46349B kinetics in rat brain. Ashworth S, et al. **Nucl Med Biol** 1996 Apr;23(3):245–50

Synthesis and tissue distribution of substituted [125I]iodophenylamine derivatives: possible brain imaging agents. Ghaffari MA, et al. **Nucl Med Biol** 1997 Feb; 24(2):151–64

Evaluation of [11C]RTI–121 as a selective radioligand for PET studies of the dopamine transporter. Hume SP, et al. **Nucl Med Biol** 1996 Apr;23(3):377–84

Pharmacological characterization and positron emission tomography evaluation of 4–[76Br]bromodexetimide and 4–[76Br]bromolevetimide for investigations of central muscarinic cholinergic receptors. Loc'h C, et al. **Nucl Med Biol** 1996 Apr;23(3):235–43

Characterization of the radioactive metabolites of the 5–HT1A receptor radioligand, [O–methyl–11C]WAY–100635, in monkey and human plasma by HPLC: comparison of the behaviour of an identified radioactive metabolite with parent radioligand in monkey using PET. Osman S, et al. **Nucl Med Biol** 1996 Jul;23(5):627–34

Synthesis, radiosynthesis, and biological evaluation of fluorinated thienylcyclohexyl piperidine derivatives as potential radiotracers for the NMDA receptor–linked calcium ionophore. Ouyang X, et al. **Nucl Med Biol** 1996 Apr;23(3):315–24

Radioligands for PET studies of central 5–HT receptors and re–uptake sites—current status. Pike VW. **Nucl Med Biol** 1995 Nov;22(8):1011–8 (38 ref.)

Carbon–11 labelled ketamine–synthesis, distribution in mice and PET studies in baboons. Shiue CY, et al. **Nucl Med Biol** 1997 Feb;24(2):145–50

Quantitative 123I IMP and 99mTc HMPAO imaging in the dog following cocaine administration. Susskind H, et al. **Nucl Med Biol** 1996 Apr;23(3):343–52

Potential for imaging cerebral amyloid deposits using 123I–labelled serum amyloid P component and SPET. Bornebroek M, et al. **Nucl Med Commun** 1996 Nov; 17(11):929–33

Brain perfusion abnormalities in Rett syndrome: a qualitative and quantitative SPET study with 99Tc(m)–ECD. Burroni L, et al. **Nucl Med Commun** 1997 Jun;18(6):527–34

Brain perfusion SPET and proton magnetic resonance spectroscopy in the evaluation of two systemic lupus erythematosus patients with mild neuropsychiatric

manifestations. Colamussi P, et al. **Nucl Med Commun** 1997 Mar;18(3):269–73

The role of 99Tcm–HMPAO brain SPET in paediatric traumatic brain injury. Goshen E, et al. **Nucl Med Commun** 1996 May;17(5):418–22

Reliability of a simple non–invasive method for the evaluation of 5–HT2 receptors using [18F]–setoperone PET imaging. Kapur S, et al. **Nucl Med Commun** 1997 May;18(5):395–9

Regional cerebral blood flow changes after light therapy in seasonal affective disorder. Matthew E, et al. **Nucl Med Commun** 1996 Jun;17(6):475–9

First SPET images of glutamate (NMDA) receptor activation in vivo in cerebral ischaemia. Owens J, et al. **Nucl Med Commun** 1997 Feb;18(2):149–58

Evaluation of 99Tc(m)–ECD as a white blood cell labelling agent. Ozker K, et al. **Nucl Med Commun** 1997 Jun; 18(6):540–2

Accuracy of a registration procedure for brain SPET and MRI: phantom and simulation studies. Sipilä O, et al. **Nucl Med Commun** 1997 Jun;18(6):517–26

SPET investigations in extrapyramidal diseases using specific ligands. Staffen W, et al. **Nucl Med Commun** 1997 Feb; 18(2):159–63

Tonic pain: a SPET study in normal subjects and cluster headache patients. Di Piero V, et al. **Pain** 1997 Apr; 70(2–3):185–91

Use of positron emission tomography to study the dynamics of psychostimulant–induced dopamine release. Mach RH, et al. **Pharmacol Biochem Behav** 1997 Jul;57(3):477–86

Scatter compensation methods in 3D iterative SPECT reconstruction: a simulation study. Beekman FJ, et al. **Phys Med Biol** 1997 Aug;42(8):1619–32

Three–dimensional performance of a small–diameter positron emission tomograph. Bloomfield PM, et al. **Phys Med Biol** 1997 Feb;42(2):389–400

Correction for scatter in 3D brain PET using a dual energy window method. Grootoonk S, et al. **Phys Med Biol** 1996 Dec;41(12):2757–74

The inversion of the exponential Radon transform for quantitative brain SPECT. Liang Z, et al. **Phys Med Biol** 1996 Jul;41(7):1227–32

Improved receptor analysis in PET using a priori information from in vitro binding assays. Litton JE, et al. **Phys Med Biol** 1997 Aug;42(8):1653–60

Error analysis on parameter estimates in the ligand–receptor model: application to parameter imaging using PET data. Millet P, et al. **Phys Med Biol** 1996 Dec;41(12):2739–56

Imaging the living human brain: magnetic resonance imaging and positron emission tomography. Volkow ND, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2787–8

Brain glucose metabolism in anorexia nervosa and affective disorders: influence of weight loss or depressive symptomatology. Delvenne V, et al. **Psychiatry Res** 1997 May 16;74(2):83–92

Visualisation of loss of 5–HT2A receptors with age in healthy volunteers using [18F]altanserin and positron emission tomographic imaging. Rosier A, et al. **Psychiatry Res** 1996 Nov 25;68(1):11–22

Longitudinal study of cerebral blood flow in Alzheimer's disease using single photon emission tomography. Sachdev P, et al. **Psychiatry Res** 1997 Feb 7;68(2–3):133–41

Central 5–HT2A and D2 dopamine receptor occupancy after sublingual administration of ORG 5222 in healthy men. Andrée B, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):339–45

Acute cocaine effects on absolute cerebral blood flow. Wallace EA, et al. **Psychopharmacology (Berl)** 1996 Nov; 128(1):17–20

Doppler–broadening of positron annihilation in a biological environment. Torrisi L, et al. **Q J Nucl Med** 1997 Mar; 41(1):18–24

Neuroradiologic applications of central nervous system SPECT. Berger JD, et al. **Radiographics** 1996 Jul; 16(4):777–85

Dynamics of polymorphonuclear leukocyte accumulation in acute cerebral infarction and their correlation with brain tissue damage. Akopov SE, et al. **Stroke** 1996 Oct; 27(10):1739–43

Simple visual analysis of brain perfusion on HMPAO SPECT predicts early outcome in acute stroke. Alexandrov AV, et al. **Stroke** 1996 Sep;27(9):1537–42

Brain single–photon emission CT with HMPAO and safety of thrombolytic therapy in acute ischemic stroke. Proceedings of the meeting of the SPECT Safe Thrombolysis Study Collaborators and the members of the Brain Imaging Council of the Society of Nuclear Medicine. Alexandrov AV, et al. **Stroke** 1997 Sep;28(9):1830–4 (32 ref.)

Neuropeptide FF receptors in rat brain: a quantitative light–microscopic autoradiographic study using [125I][D.Tyr1, (NMe)Phe3]NPFF. Dupouy V, et al. **Synapse** 1996 Nov;24(3):282–96

Imaging of cholinergic terminals using the radiotracer [18F](+)–4–fluorobenzyltrozamicol: in vitro binding studies and positron emission tomography studies in nonhuman primates. Mach RH, et al. **Synapse** 1997 Apr; 25(4):368–80

Imaging of delta opioid receptors in human brain by N1'–([11C]methyl)naltrindole and PET. Madar I, et al. **Synapse** 1996 Sep;24(1):19–28

Quantification of dopamine transporter density in monkeys by dynamic PET imaging of multiple injections of 11C–CFT. Morris ED, et al. **Synapse** 1996 Nov; 24(3):262–72

Iodolisuride and iodobenzamide, two ligands for SPECT exploration of the dopaminergic D2 receptors: a comparative study. Pellevoisin C, et al. **Synapse** 1996 Sep; 24(1):79–86

P–[18F]–MPPF: a potential radioligand for PET studies of 5–HT1A receptors in humans. Shiue CY, et al. **Synapse** 1997 Feb;25(2):147–54

Acute alternating hemiplegia. A case report. Tekgül H, et al. **Turk J Pediatr** 1996 Oct–Dec;38(4):521–6

[False–negative native CT findings in the development of cerebral ischemia] Obenberger J, et al. **Cas Lek Cesk** 1996 Oct 9;135(19):620–3 (Eng. Abstr.) **(Cze)**

[Age dependence of cerebral Tc–99m–ECD distribution between preschool and school–age children and adults] Barthel H, et al. **Nuklearmedizin** 1997 Jun;36(4):110–6 (Eng. Abstr.) **(Ger)**

[Semiquantitative 99mTc–HMPAO SPECT in dementia of the Alzheimer type: influence of the selection of reconstruction filter and reference region] Elser H, et al. **Nuklearmedizin** 1996 Dec;35(6):243–50 (Eng. Abstr.) **(Ger)**

[Clinical significance of nuclear medicine in the presurgical diagnosis of epilepsy (editorial)] Grünwald F, et al. **Nuklearmedizin** 1997 Mar;36(2):3–5 (21 ref.) **(Ger)**

[Effect of thrombus endarterectomy (TEA) on the regional cerebral bloodflow (rCBF) in patients with unilateral internal carotid artery stenosis] Otte A, et al. **Nuklearmedizin** 1997 Jan;36(1):23–8 (Eng. Abstr.) **(Ger)**

[Compton–scatter correction using the triple energy window (TEW) method in conventional single photon emission computed tomography without TEW acquisition hardware] Fujioka H, et al. **Kaku Igaku** 1997 Apr; 34(4):251–8 (Eng. Abstr.) **(Jpn)**

[Comparison of cerebral blood flow in primary visual cortex by administration of 99mTc–ECD while having eyes open or closed] Hasegawa T, et al. **Kaku Igaku** 1996 Nov; 33(11):1239–42 (Eng. Abstr.) **(Jpn)**

[Quantitative measurements of cerebral blood flow using 99mTc–ECD radionuclide angiography, SPECT and one–point arterial sampling] Isaka Y, et al. **Kaku Igaku** 1996 Sep;33(9):965–73 (Eng. Abstr.) **(Jpn)**

[Normal cerebral perfusion of 99mTc–ECD brain SPECT—evaluation by an anatomical standardization technique] Kawashima R, et al. **Kaku Igaku** 1996 Jan; 33(1):69–72 (Eng. Abstr.) **(Jpn)**

[Development of a new statistical evaluation method for brain SPECT images] Kawashima R, et al. **Kaku Igaku** 1996 Dec; 33(12):1359–62 (Eng. Abstr.) **(Jpn)**

[Benzodiazepine receptor and cerebral blood flow in early Alzheimer's disease—SPECT study using 123I–iomazenil and 123I–IMP] Kitamura S, et al. **Kaku Igaku** 1996 Jan; 33(1):49–56 (Eng. Abstr.) **(Jpn)**

[A quantitative study of regional cerebral blood flow in patients with dementia of Alzheimer type using single photon emission computed tomography—clinical application of the IMP autoradiographic method (IMP ARG method)] Koshi Y, et al. **Kaku Igaku** 1996 Sep; 33(9):991–8 (Eng. Abstr.) **(Jpn)**

[Evaluation of regional cerebral blood flow in hippocampus by 99mTc–ECD SPECT: comparison with 123I–IMP SPECT] Matsumura K, et al. **Kaku Igaku** 1996 Sep; 33(9):1021–6 (Eng. Abstr.) **(Jpn)**

[Brain uptake ratio as an index of cerebral blood flow obtained with 99mTc–ECD] Miyazaki Y, et al. **Kaku Igaku** 1997 Jan;34(1):49–52 (Eng. Abstr.) **(Jpn)**

[Usefulness of rCBF SPECT in patients with encephalitis: comparison study with MRI] Nagamachi S, et al. **Kaku Igaku** 1997 Jan;34(1):7–17 (Eng. Abstr.) **(Jpn)**

[Regional cerebral blood flow measurements using 99mTc–ECD SPECT in patients with Alzheimer's disease (ad) in the early stage] Nakano S, et al. **Kaku Igaku** 1996 Nov;33(11):1197–206 (Eng. Abstr.) **(Jpn)**

[A case of transient tic disorder with abnormal findings on 99mTc–HMPAO SPECT] Nishii R, et al. **Kaku Igaku** 1996 Dec;33(12):1343–6 (Eng. Abstr.) **(Jpn)**

[A functional diagnostic method by measuring of distribution volume of 123I–IMP with SPECT] Odano I, et al. **Kaku Igaku** 1996 Jun;33(6):579–86 (Eng. Abstr.) **(Jpn)**

[The quantitative regional cerebral blood flow measurement with autoradiography method using 123I–IMP SPECT: evaluation of arterialized venous blood sampling as a substitute for arterial blood sampling] Ohnishi T, et al. **Kaku Igaku** 1996 Oct;33(10):1105–9 (Eng. Abstr.) **(Jpn)**

[Parametric images of central–type benzodiazepine receptor binding and ligand transport by two SPECT scans of 123I–iomazenil: relative quantification without blood data] Onishi Y, et al. **Kaku Igaku** 1996 Sep;33(9):953–63 (Eng. Abstr.) **(Jpn)**

[Quantitative evaluation of response at acetazolamide test using 99mTc–ECD SPECT; a trial of production of the response map] Oyama T, et al. **Kaku Igaku** 1997 Jun; 34(6):389–97 (Eng. Abstr.) **(Jpn)**

[Regional cerebral blood flow measurements at pre– and post–Diamox test using split dose 99mTc–ECD SPECT: comparison with 133Xe inhalation method and linearization correction] Sogabe I. **Kaku Igaku** 1997 Jan;34(1):35–44 (Eng. Abstr.) **(Jpn)**

[Comparison of the number of parameters using nonlinear iteration methods for compartment model analysis with 18F–FDG brain PET] Taguchi A, et al. **Kaku Igaku** 1997 Jan;34(1):25–34 (Eng. Abstr.) **(Jpn)**

[Noninvasive quantitative measurements of regional cerebral blood flow using technetium–99m–L, L–ECD SPECT activated with acetazolamide] Takeuchi R, et al. **Kaku Igaku** 1996 Nov;33(11):1213–20 (Eng. Abstr.) **(Jpn)**

[Reye syndrome evaluated by 99mTc–ECD SPECT: a case report] Uchino K, et al. **Kaku Igaku** 1996 Sep;33(9):1005–10 (Eng. Abstr.) **(Jpn)**

[Compartment analysis of 123I–iomazenil brain on early and delayed SPECT] Yanagimoto S, et al. **Kaku Igaku** 1997 Jun;34(6):371–7 (Eng. Abstr.) **(Jpn)**

[Correlation of regional cerebral blood flow between Xe–CT and 133Xe–SPECT: validity of Xe–CT in evaluating rCBF] Haku T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct;56(12):828–33 (Eng. Abstr.) **(Jpn)**

[Evaluation of neuro–Behçet disease with 99mTc–HMPAO brain SPECT: comparison with MR imaging] Kikuchi Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul; 57(8):515–9 (Eng. Abstr.) **(Jpn)**

[Assessment of cerebral benzodiazepine receptor distribution in anxiety disorders by 123I–iomazenil–SPECT: comparison to cerebral perfusion scintigraphy by 123I–IMP] Uchiyama M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan;57(1):41–6 (Eng. Abstr.) **(Jpn)**

[Assessment of cerebral benzodiazepine receptor distribution in epilepsy by 123I–iomazenil–SPECT] Uchiyama M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):47–51 (Eng. Abstr.) **(Jpn)**

[Normal distribution of CBF with advancing age measured by HMPAO SPECT] Yang D, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):860–5 (Eng. Abstr.) **(Jpn)**

[18F–fluorodeoxyglucose positron emission tomography in Parkinson's disease] Arahata Y, et al. **Nippon Rinsho** 1997 Jan;55(1):222–6 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Muscarinic cholinergic receptor imaging of parkinsonian brain using 11C–NMPB and PET] Asahina M, et al. **Nippon Rinsho** 1997 Jan;55(1):233–7 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Functional brain imaging with SPECT] Hatazawa J. **Nippon Rinsho** 1997 Mar;55 Suppl 1:334–6 (10 ref.) **(Jpn)**

[Analysis of Parkinson's disease and related syndromes using 123I–IMP–SPECT with the ARG method] Kageyama H, et al. **Nippon Rinsho** 1997 Jan;55(1):238–42 (Eng. Abstr.) **(Jpn)**

[PET study using 6–[18F]–fluorodopa in Parkinson's disease] Nagasawa H, et al. **Nippon Rinsho** 1997 Jan;55(1):213–7 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Cerebral perfusion and oxygen metabolism in Parkinson's disease: positron emission tomographic study using oxygen–15–labeled CO2 and O2] Tanaka M, et al. **Nippon Rinsho** 1997 Jan;55(1):218–21 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Two cases of delayed posttraumatic vasospasm followed by brain SPECT] Hirano A, et al. **No Shinkei Geka** 1997 May; 25(5):447–53 (Eng. Abstr.) **(Jpn)**

[Clinical application of functional mapping: the present state of the art and its future prospects: (series 8) functional brain mapping using PET] Itoh M, et al. **No Shinkei Geka** 1996 Sep;24(9):779–83 (13 ref.) **(Jpn)**

[A quantitative study of regional cerebral blood flow in childhood using 123I–IMP–SPECT: with emphasis on age–related changes] Kobayashi A, et al. **No To Hattatsu** 1996 Nov;28(6):501–7 (Eng. Abstr.) **(Jpn)**

[A case of psittacosis with psychiatric symptoms, abnormal EEG, and abnormal SPECT] Saeki S, et al. **No To Shinkei** 1996 Dec;48(12):1141–5 (Eng. Abstr.) **(Jpn)**

[A patient with epilepsy manifesting reversible memory dysfunction—a neuropsychological, electroencephalographical and radiological study] Terada T, et al. **No To Shinkei** 1997 Apr;49(4):353–8 (Eng. Abstr.) **(Jpn)**

[A case of familial juvenile dystonia–parkinsonism: 18F–6–fluorodopa and 18F–fluoro–2–deoxyglucose PET study] Hanakawa T, et al. **Rinsho Shinkeigaku** 1996 May; 36(5):655–60 (Eng. Abstr.) **(Jpn)**

[Neurotransmitter systems in the human brain studied by positron emission tomography] Shinotoh H. **Rinsho Shinkeigaku** 1996 Dec;36(12):1313–5 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Abnormally distributed regional cerebral blood flow in brain malformations detected by single photon emission computed tomography] Ueda M, et al. **Rinsho Shinkeigaku** 1997 Feb;37(2):99–105 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Relationship between SPECT and pathological alterations in Alzheimer's disease—a study of a case with left–hemisphere dominant lesions] Nakano N, et al. **Seishin Shinkeigaku Zasshi** 1996;98(7):441–59 (Eng. Abstr.) **(Jpn)**

[The Landau–Kleffner syndrome. SPECT and EEG investigations] Steinborn B, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):771–81 (Eng. Abstr.) **(Pol)**

[The assessment of regional cerebral blood flow using HMPAO–SPECT during depressive episode and in remission] Jaracz J, et al. **Psychiatr Pol** 1996 Sep–Oct; 30(5):757–69 (Eng. Abstr.) **(Pol)**

[Positron-emission tomographic study of human brain processing of various characteristics of visually presented words. III. Cerebral system of processing the grammatical gender of words] Medvedev SV, et al. **Fiziol Cheloveka** 1996 Jul-Aug;22(4):5-11 **(Rus)**

[Cerebral SPECT with thallium-201 in the differential diagnosis of focal cerebral lesions in patients with AIDS] Sanjaume M, et al. **Enferm Infecc Microbiol Clin** 1997 Jan; 15(1):28-31 (Eng. Abstr.) **(Spa)**

[Cerebral SPECT in adult epileptics with neuronal migration disorders] Benito-León J, et al. **Rev Neurol** 1997 Jan; 25(137):56-7 (Eng. Abstr.) **(Spa)**

[Cerebral SPECT and epilepsy] Martín R. **Rev Neurol** 1997 Jan;25(137):68-70 (25 ref.) **(Spa)**

[In vitro and in vivo techniques for the location of the receptors in human brain: methodological basis and general applications] Pazos A. **Rev Neurol** 1997 Jul;25 Suppl 1:S23-7 (16 ref.) **(Spa)**

[Cerebral blood flow study using SPECT in patients with memory disorders] Valiente E, et al. **Rev Neurol** 1997 Mar; 25(139):460-4 (Eng. Abstr.) **(Spa)**

SECRETION

Oligodendrocytes isolated from adult pig brain synthesise and release prostaglandins. Althaus HH, et al. **Cell Tissue Res** 1997 Jan;287(1):135-41

Circadian regulation of a daily rhythm of release of prothoracicotropic hormone from the brain retrocerebral complex of Rhodnius prolixus (hemiptera) during larval-adult development. Vafopoulou X, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):123-9

Effects of imidazolines on noradrenaline release in brain: an investigation into their relationship to imidazoline, alpha 2 and H3 receptors. Schlicker E, et al. **Neurochem Int** 1997 Jan;30(1):73-83

[Stimulation of the endorphin structures of the brain--a new nondrug treatment method] Aleksandrova VA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(2):101-4 (65 ref.) **(Rus)**

SURGERY

In the realm of ideas: the advent of advanced surgery of the human cerebrum and neurosurgical education. Apuzzo ML. **Acta Neurochir Suppl (Wien)** 1997;69:145-50 (29 ref.)

Functional neurosurgery aided by use of an electronic brain atlas. Yeo TT, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:93-9

Ablation of neural tissue by short-pulsed lasers--a technical report. Suhm N, et al. **Acta Neurochir (Wien)** 1996; 138(3):346-9

Epilepsy surgery. Dam M. **Acta Neurol Scand** 1996 Aug; 94(2):81-7 (50 ref.)

The variable relationship between the lower cranial nerves and jugular foramen tumors: implications for neural preservation. Lustig LR, et al. **Am J Otol** 1996 Jul; 17(4):658-68 (32 ref.)

Low-dose aspirin and intracranial surgery. A survey of the opinions of consultant neuroanaesthetists in the UK. James DN, et al. **Anaesthesia** 1997 Feb;52(2):169-72

Difficult intubation in a neurosurgical patient [letter] Williamson S, et al. **Anaesthesia** 1997 Jan;52(1):92

Intracranial pressure, middle cerebral artery flow velocity, and plasma inorganic fluoride concentrations in neurosurgical patients receiving sevoflurane or isoflurane. Artru AA, et al. **Anesth Analg** 1997 Sep;85(3):587-92

Image-directed neurosurgery. Kitchen ND. **Ann R Coll Surg Engl** 1997 Mar;79(2):148-53 (8 ref.)

Hemispherectomy for intractable seizures: a further modification and early experience. Dunn LT, et al. **Br J Neurosurg** 1995;9(6):775-83

Tentorial dural flap for transtentorial surgery. Goel A. **Br J Neurosurg** 1995;9(6):785-6

Blindsight in hemispherectomized patients as revealed by spatial summation across the vertical meridian. Tomaiuolo F, et al. **Brain** 1997 May;120 (Pt 5):795-803

Onset of speech after left hemispherectomy in a nine-year-old boy. Vargha-Khadem F, et al. **Brain** 1997 Jan;120 (Pt 1):159-82

Youthful season revisited. Wada JA. **Brain Cogn** 1997 Feb; 33(1):7-10

Does cognition in the disconnected right hemisphere require right hemisphere possession of language? Bogen JE. **Brain Lang** 1997 Mar;57(1):12-21 (72 ref.)

Can the right hemisphere speak? Code C. **Brain Lang** 1997 Mar;57(1):38-59 (85 ref.)

Failure to demonstrate selective deficit in the native language following surgery to the left perisylvian area. Hines TM. **Brain Lang** 1996 Jul;54(1):168-9; discussion 174-5

The interpretation of sentence ambiguity in patients with unilateral focal brain surgery. Zaidel DW, et al. **Brain Lang** 1995 Dec;51(3):458-68

Parkinson's disease, trophic factors, and adrenal medullary chromaffin cell grafting: basic and clinical studies. Date I. **Brain Res Bull** 1996;40(1):1-19 (223 ref.)

Stereotactic radiosurgery [editorial] Laperriere NJ, et al. **Can J Neurol Sci** 1997 May;24(2):93-4

Unilateral amygdalatomy and hemispherectomy [letter; comment] Balasubramaniam V. **Childs Nerv Syst** 1997 Mar; 13(3):121. Comment on: Childs Nerv Syst 1996 Jul;12(7):376-84.

Magnetic neurosurgery: image-guided, remote-controlled movements of neurosurgical implants. Howard MA 3rd, et al. **Clin Neurosurg** 1996;43:382-91

Transcranial orbital surgery. Jane JA Sr, et al. **Clin Neurosurg** 1996;43:53-71 (19 ref.)

Intraoperative cranial navigation. Maciunas RJ. **Clin Neurosurg** 1996;43:353-81 (21 ref.)

The surgical relief of pain. Mullan S. **Clin Neurosurg** 1971; 18:208-24

Surgical treatment of extratemporal epilepsy: clinical, radiologic, and histopathologic findings in 60 patients. Zentner J, et al. **Epilepsia** 1996 Nov;37(11):1072-80

Monitoring for cerebrovascular surgery. Bloom MJ, et al. **Int Anesthesiol Clin** 1996 Summer;34(3):137-47 (56 ref.)

Implantation of cultured human leptomeningeal cells into rat brain. DeGiorgio LA, et al. **Int J Dev Neurosci** 1997 Apr; 15(2):231-8

Recommended technique for brain removal to retain anatomic integrity of the pineal gland in order to determine its size in sudden infant death syndrome. Sparks DL, et al. **J Forensic Sci** 1997 Jan;42(1):100-2

Review of magnetic neurosurgery research. Howard MA 3rd, et al. **J Image Guid Surg** 1995;1(6):295-9 (11 ref.)

Proposed simulation of volumetric image navigation using a surgical microscope. Shahidi R, et al. **J Image Guid Surg** 1995;1(5):249-65

Autism and epilepsy (and tuberous sclerosis?) in two pre-adolescent boys: neuropsychiatric aspects before and after epilepsy surgery. Gillberg C, et al. **J Intellect Disabil Res** 1996 Feb;40 (Pt 1):75-81

Quality of life after epilepsy surgery. Kellett MW, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):52-8

Ultrasound-tailored functional hemispherectomy for surgical control of seizures in children. Kanev PM, et al. **J Neurosurg** 1997 May;86(5):762-7

Neuroendoscopic approach to arachnoid cysts. Schroeder HW, et al. **J Neurosurg** 1996 Aug;85(2):293-8

Pharmacokinetic study of zonisamide in patients undergoing brain surgery. Ieiri I, et al. **J Pharm Pharmacol** 1996 Dec; 48(12):1270-5

Applications of lasers in vascular neurosurgery [letter; comment] Menovsky T, et al. **Lasers Surg Med** 1996; 19(1):107-8. Comment on: Lasers Surg Med 1994;15(2):126-67.

Comparison of 810 nm and 1064 nm wavelengths for interstitial laser photocoagulation in rabbit brain. Wyman DR, et al. **Lasers Surg Med** 1997;21(1):50-8

MIN-biopsy of brain tumors: operative technique and histomorphological results. Scholz M, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):12-6

Tourette syndrome. Medical and surgical treatment of obsessive-compulsive disorder. Rapoport JL, et al. **Neurol Clin** 1997 May;15(2):421-8 (41 ref.)

Omental transposition for Alzheimer's disease. Goldsmith HS. **Neurol Res** 1996 Apr;18(2):103-8

The isolation and transplantation of the brain. An historical perspective emphasizing the surgical solutions to the design of these classical models. White RJ, et al. **Neurol Res** 1996 Jun;18(3):194-203 (45 ref.)

Sound localization in egocentric space following hemispheric lesions. Haeske-Dewick H, et al. **Neuropsychologia** 1996 Sep;34(9):937-42

Phonological dyslexia and phonological dysgraphia following left and right hemispherectomy. Ogden JA. **Neuropsychologia** 1996 Sep;34(9):905-18

Acute surgical therapeutic interventions in stroke patients. Loftus CM. **Neurosurg Clin N Am** 1997 Apr;8(2):227-36 (65 ref.)

Magnetic source imaging as a tool for presurgical functional brain mapping. Roberts TP, et al. **Neurosurg Clin N Am** 1997 Jul;8(3):421-38 (68 ref.)

Radiosurgical lesions in the normal human brain 17 years after gamma knife capsulotomy. Kihlström L, et al. **Neurosurgery** 1997 Aug;41(2):396-401; discussion 401-2

Computer-assisted surgical planning for cerebrovascular neurosurgery. Nakajima S, et al. **Neurosurgery** 1997 Aug; 41(2):403-9; discussion 409-10

Light-emitting diodes as a light source for intraoperative photodynamic therapy. Schmidt MH, et al. **Neurosurgery** 1996 Mar;38(3):552-6; discussion 556-7

Why would you remove half a brain? The outcome of 58 children after hemispherectomy-the Johns Hopkins experience: 1968 to 1996. Vining EP, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):163-71

Motor evoked potentials during brain surgery. Rodi Z, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R291-2

Exploration of intracranial structures endoscopically [letter; comment] Grotenhuis JA, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2109-10. Comment on: Plast Reconstr Surg 1996 Apr;97(5):1027-33.

Cyclosporine-A increases locomotor activity in rats with 6-hydroxydopamine-induced hemiparkinsonism: relevance to neural transplantation. Borlongan CV, et al. **Surg Neurol** 1996 Oct;46(4):384-8

Subdural-peritoneal shunt: treatment for bilateral chronic subdural hematoma. Misra M, et al. **Surg Neurol** 1996 Oct; 46(4):378-83

Surgical treatment of intractable seizures with multilobar or bihemispheric seizure foci (MLBHSF). Patil AA, et al. **Surg Neurol** 1997 Jan;47(1):72-7; discussion 77-8

[Imaging networks, surgical simulation, computer-assisted neurosurgery] Desgeorges M, et al. **J Neuroradiol** 1997 Aug;24(2):108-15 (Eng. Abstr.) **(Fre)**

[Stereotaxic technics and clinical neurosurgery] Devaux B, et al. **J Neuroradiol** 1997 Aug;24(2):116-25 (Eng. Abstr.) **(Fre)**

[The sitting position in neurosurgical operations. Results of a survey] Schaffranietz L, et al. **Anaesthesist** 1997 Feb; 46(2):91-5 (Eng. Abstr.) **(Ger)**

[Neurosurgical methods in treatment of Parkinson disease. Current status] Diederich NJ, et al. **Nervenarzt** 1997 Jun; 68(6):466-76 (140 ref.) (Eng. Abstr.) **(Ger)**

[Intraoperative monitoring for functional neurosurgery during intravenous anesthesia with propofol] Fukuda M, et al. **No Shinkei Geka** 1997 Mar;25(3):231-7 (Eng. Abstr.) **(Jpn)**

[Preservation of olfaction in frontal transbasal approach] Kawauchi M, et al. **No Shinkei Geka** 1997 Jul;25(7):613-9 (Eng. Abstr.) **(Jpn)**

[Surgery for intractable epilepsy--selection and presurgical evaluation] Yagi K. **Rinsho Shinkeigaku** 1995 Dec; 35(12):1356-60 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Direct effects of the intrathecal administration of normal saline for the brain expansion after the removal of subdural hematoma] Zderkiewicz E, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):457-65 (Eng. Abstr.) **(Pol)**

[A puncture cannula-retractor for brain tissue] Dzenis IuL, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr-Jun; (2):33-4 **(Rus)**

[Postoperative suppurative complications in intracranial interventions] Nurzhikov SR, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Apr-Jun; (2):28-30 (74 ref.) **(Rus)**

[When should the pre-operative study of epileptic patients be carried out?] Sola RG. **Rev Neurol** 1997 Mar; 25(139):379-85 (55 ref.) (Eng. Abstr.) **(Spa)**

TRANSPLANTATION see BRAIN TISSUE TRANSPLANTATION

ULTRASONOGRAPHY see ECHOENCEPHALOGRAPHY

ULTRASTRUCTURE

Perineuronal sulfated proteoglycans in the adult rat brain: histochemical and electron microscopic studies. Tsubouchi Y, et al. **Acta Med Okayama** 1996 Oct;50(5):237-41

p35nck5a and cyclin-dependent kinase 5 colocalize in Lewy bodies of brains with Parkinson's disease. Nakamura S, et al. **Acta Neuropathol (Berl)** 1997 Aug;94(2):153-7

Ultrastructural concomitants of hypoxia-induced angiogenesis. Stewart PA, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):579-84

Infection with Plasmodium berghei alters benzodiazepine receptor in rat brain. Kokwaro G, et al. **Arch Med Res** 1997 Autumn;28(3):425-7

In vivo and in vitro labelling of perineuronal nets in rat brain. Brückner G, et al. **Brain Res** 1996 May 13;720(1-2):84-92

Ultrastructural localization of CD38 immunoreactivity in rat brain. Yamada M, et al. **Brain Res** 1997 May 9; 756(1-2):52-60

Structural characterization of osmoregulator peptides from the brain of the leech Theromyzon tessulatum: IPEPYVWD and IPEPYVWD-amide. Salzet M, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):301-10

Topography and immunocytochemical characterization of nerve fibers in the leptomeningeal compartments of the rat. A light- and electron-microscopical study. Fricke B, et al. **Cell Tissue Res** 1997 Jan;287(1):11-22

Spike waves and synaptic ultrastructure in human epileptic brains. Li G, et al. **Chin Med J (Engl)** 1996 May; 109(5):389-92

Interactions of selective serotonin reuptake inhibitors with subtypes of sigma receptors in rat brain. Narita N, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):117-9

Endothelin receptor mediated constriction and dilatation in feline cerebral resistance arterioles in vivo. Patel TR, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):41-8

Increased axon number in the anterior commissure of mice lacking a corpus callosum. Livy DJ, et al. **Exp Neurol** 1997 Aug;146(2):491-501

DNA fragmentation and ultrastructural changes in the brain of rabbits treated with vincristine. Muzylak M, et al. **Folia Neuropathol** 1996;34(3):129-35

Immunological studies on sphingolipid activator proteins in the neuronal ceroid-lipofuscinoses. Haltia M, et al. **Gerontology** 1995;41 Suppl 2:239-48

Ultrastructural localization of glycogen phosphorylase predominantly in astrocytes of the gerbil brain. Richter K, et al. **Glia** 1996 Aug;17(4):263-73

A combined staining method for argyrophilic nucleolar organizer regions and for glial fibrillary acidic protein in astrocytes of human brain. Fushiki S, et al. **Histochem J** 1996 Jul;28(7):523-30

Rapid incorporation of docosahexaenoic acid from dietary sources into brain microsomal, synaptosomal and mitochondrial membranes in adult mice. Suzuki H, et al. **Int J Vitam Nutr Res** 1997;67(4):272-8

Membrane specializations in the developmentally transient perireticular nucleus of the rat. Ramcharan EJ, et al. **J Comp Neurol** 1997 Apr 21;380(4):435-48

Neuronal ceroid-lipofuscinosis in a domestic cat: clinical, morphological and immunohistochemical findings. Weissenböck H, et al. **J Comp Pathol** 1997 Jul;117(1):17-24

Ultrastructure of the isthmic nucleus and identification of

the synaptic contacts received by the neurons of the crossed isthmotectal projection in Rana esculenta. Pollák E, et al. **J Hirnforsch** 1997;38(2):153–64

Imaging of thick sections of nervous tissue with energy-filtering transmission electron microscopy. Körtje KH, et al. **J Microsc** 1996 Jul;183 (Pt 1):89–101

Unbiased stereological estimation of the total number of synapses in a brain region. Geinisman Y, et al. **J Neurocytol** 1996 Dec;25(12):805–19

How to count synapses unbiasedly and efficiently at the ultrastructural level: proposal for a standard sampling and counting protocol. Mayhew TM. **J Neurocytol** 1996 Dec; 25(12):793–804 (84 ref.)

The morphology of synapses. Peters A, et al. **J Neurocytol** 1996 Dec;25(12):687–700 (64 ref.)

Extracellular space and membrane changes in brain owing to different alkali metal buffers. Schultz RL, et al. **J Neurocytol** 1973 Sep;2(3):289–303

Freeze-etching images of central myelinated nerve fibres. Tani E, et al. **J Neurocytol** 1973 Sep;2(3):305–14

Melatonin receptors are present in non-optic regions of the brain of a deep-sea fish living in the absence of solar light. Smith A, et al. **J Neuroendocrinol** 1996 Sep;8(9):655–8

Impact acceleration injury in the rat: evidence for focal axolemmal change and related neurofilament sidearm alteration. Povlishock JT, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):347–59

Multiple sclerosis and bipolar disorder: a case report with autopsy findings. Casanova MF, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):206–8

Imaging developing neural morphology using optical coherence tomography. Boppart SA, et al. **J Neurosci Methods** 1996 Dec;70(1):65–72

Postembedding immunocytochemistry of large sections of brain tissue: an improved flat embedding technique. Larue DT, et al. **J Neurosci Methods** 1996 Sep;68(1):125–32

Injection of dye into neurones in rat and human post-mortem brain, in combination with acetylcholinesterase histochemistry: permanent preparations. Loopuijt LD, et al. **J Neurosci Methods** 1997 Aug 22;75(2):161–9

A stereological method for estimating the total length and size of myelin fibers in human brain white matter. Tang Y, et al. **J Neurosci Methods** 1997 May 16;73(2):193–200

Characterization of two distinct populations of detergent resistant membrane complexes isolated from chick brain tissues. Henke RC, et al. **J Neurosci Res** 1996 Sep 1; 45(5):617–30

Ultrastructural localization of GLUT 1 and GLUT 3 glucose transporters in rat brain. Leino RL, et al. **J Neurosci Res** 1997 Sep 1;49(5):617–26

Compared effects of extracellular K+ ions and soman, a neurotoxic, on cerebral astrocyte morphology. An in vitro study. Grange-Messent V, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):151–9

AM630 is a competitive cannabinoid receptor antagonist in the guinea pig brain. Hosohata K, et al. **Life Sci** 1997; 61(9):PL115–8

Dietary fatty acid composition induces comparable changes in cardiolipin fatty acid profile of heart and brain mitochondria. McGee CD, et al. **Lipids** 1996 Jun; 31(6):611–6

Preparation of synaptosomal plasma membranes by subcellular fractionation. Hens JJ. **Methods Mol Biol** 1997; 72:61–9

Differential regulation of corticotropin-releasing factor1 receptor expression by stress and agonist treatments in brain and cultured cells. Iredale PA, et al. **Mol Pharmacol** 1996 Nov;50(5):1103–10

Changes of D1 and D2 dopamine receptor mRNA in the brains of monkeys lesioned with 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine: correction with chronic administration of L-3,4-dihydroxyphenylalanine. Morissette M, et al. **Mol Pharmacol** 1996 Nov;50(5):1073–9

Coenzyme Q, peroxidation and cytochrome oxidase features after parkinson's-like disease by MPTP toxicity in intra-synaptic and non-synaptic mitochondria from Macaca fascicularis cerebral cortex and hippocampus: action of dihydroergocriptine. Battino M, et al. **Neurochem Res** 1996 Dec;21(12):1505–14

Characterization of melittin effects in synaptosomes. González L, et al. **Neurochem Res** 1997 Feb;22(2):189–99

Kinetics of K(+)-p-nitrophenyl phosphatase stimulation by a brain soluble fraction. Rodríguez de Lores Arnaiz G. **Neurochem Res** 1997 Feb;22(2):215–9

In vivo toxicity of prion protein in murine scrapie: ultrastructural and immunogold studies. Jeffrey M, et al. **Neuropathol Appl Neurobiol** 1997 Apr;23(2):93–101

Morphofunctional evidence for mature synaptic contacts on the Mauthner cell of 52-hour-old zebrafish larvae. Triller A, et al. **Neuroscience** 1997 Sep;80(1):133–45

Ultrastructural changes in the blood-brain barrier in rats after treatment with nimodipine and flunarizine. A comparison. Zumkeller M, et al. **Neurosurg Rev** 1996;19(4):253–60

Simple method for the perfusion-fixation of adult bovine brain. Simmons MM, et al. **Res Vet Sci** 1996 May; 60(3):247–50

Ultrastructural and morphometric investigation of human brain capillaries in normal and peritumoral tissues. Bertossi M, et al. **Ultrastruct Pathol** 1997 Jan-Feb;21(1):41–9

Morphological diversity in terminals of W-type retinal ganglion cells at projection sites in cat brain. Chen B, et al. **Vis Neurosci** 1996 May-Jun;13(3):449–60

[An ultrastructural study of the ependymoma cells and cells of the ventric zone and neural canal of embryonic brain] Hang Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):96–8 (Eng. Abstr.) **(Chi)**

[Observation of brain slice using infra-red differential interference contrast (IR-DIC) video microscopy] Miyakawa H, et al. **Nippon Seirigaku Zasshi** 1996; 58(7-8):301–6 (13 ref.) **(Jpn)**

[Ultrastructural changes in various regions of rat brain after administration of amitriptyline] Bardakhch'ian EA, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):457–61 **(Rus)**

[Structural-functional changes in liver and brain in endotoxic shock (ultrastructural study)] Bardakhch'ian EA, et al. **Patol Fiziol Eksp Ter** 1997 Jan-Mar;(1):17–21 (Eng. Abstr.) **(Rus)**

VIROLOGY

Absence of entero- and cardioviral RNA in multiple sclerosis brain tissue. Dessau RB, et al. **Acta Neurol Scand** 1997 May; 95(5):284–6

Degeneration of the cerebellar dentate nucleus and the inferior olivary nuclei in HIV-1-infected brains: a morphometric analysis. Abe H, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):150–5

Investigation on the expression of major histocompatibility complex class II and cytokines and detection of HIV-1 DNA within brains of asymptomatic and symptomatic HIV-1-positive patients. An SF, et al. **Acta Neuropathol (Berl)** 1996;91(5):494–503

Detection of JC virus by anti-VP1 immunohistochemistry in brains with progressive multifocal leukoencephalopathy. Jochum W, et al. **Acta Neuropathol (Berl)** 1997 Sep; 94(3):226–31

Cerebral glucose transporter expression in HIV infection. Kovitz CA, et al. **Acta Neuropathol (Berl)** 1997 Aug; 94(2):140–5

Disordered migration and loss of virus-infected neuronal cells in developing mouse brains infected with murine cytomegalovirus. Shinmura Y, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):551–7

HIV-1 neuropathogenesis and abused drugs: current reviews, problems, and solutions. Shapshak P, et al. **Adv Exp Med Biol** 1996;402:171–86 (122 ref.)

Cellular reservoirs of HIV-1 in the central nervous system of infected individuals: identification by the combination of in situ polymerase chain reaction and immunohistochemistry. Bagasra O, et al. **AIDS** 1996 Jun; 10(6):573–85

Significance of restricted HIV expression for HIV neuropathogenesis: still an unresolved issue [letter; comment] [see comments] Brack-Werner R, et al. **AIDS** 1997 Feb;11(2):251–2. Comment on: AIDS 1996 Jul;10(8):843–7. Comment in: AIDS 1997 Feb;11(2):252.

No evidence of significant abortive HIV infection of the brain [letter; comment] Wiley CA, et al. **AIDS** 1997 Feb;11(2):252 . Comment on: AIDS 1997 Feb;11(2):251–2.

Expression of HIV regulatory and structural mRNA in the central nervous system [see comments] Wiley CA, et al. **AIDS** 1996 Jul;10(8):843–7. Comment in: AIDS 1997 Jan;11(1):133–5. Comment in: AIDS 1997 Feb;11(2):251–2. Comment in: AIDS 1997 Apr;11(5):698–9.

Region-specific changes, gene duplications, and random deletions in the nef gene from HIV type 1-infected brain tissues and blood of a demented patient. Saksena NK, et al. **AIDS Res Hum Retroviruses** 1997 Jan 1;13(1):111–6

Localization of simian immunodeficiency virus nucleic acid and antigen in brains of fetal macaques inoculated in utero. Lane JH, et al. **Am J Pathol** 1996 Oct;149(4):1097–104

Pathogenesis of SIV encephalitis. Selection and replication of neurovirulent SIV. Zink MC, et al. **Am J Pathol** 1997 Sep;151(3):793–803

Human immunodeficiency virus and the brain. Glass JD, et al. **Annu Rev Neurosci** 1996;19:1–26 (149 ref.)

Experimental reproduction of hypoglycemia-spiking mortality syndrome in broiler chickens with the use of homogenized brains containing arenavirus-like particles. Davis JF, et al. **Avian Dis** 1997 Apr-Jun;41(2):442–6

Retrograde transfer of replication deficient recombinant adenovirus vector in the central nervous system for tracing studies. Kuo H, et al. **Brain Res** 1995 Dec 24;705(1-2):31–8

The response of goat brain cells to infection by caprine arthritis-encephalitis virus. Adeyemo O, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Dec;42(8):1195–209

Distribution of Aujeszky's disease virus in experimentally infected mink (Mustela vison). Quiroga MI, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Apr;104(4):147–50

Tick-borne encephalitis: possibly a fatal disease in its acute stage. PCR amplification of TBE RNA from postmortem brain tissue. Tomažič J, et al. **Infection** 1997 Jan-Feb; 25(1):41–3

Chicken ovalbumin upstream promoter transcription factor, a transcriptional activator of HIV-1 gene expression in human brain cells. Sawaya BE, et al. **J Biol Chem** 1996 Sep 20;271(38):23572–6

Neurons in the rat brain and spinal cord labeled after pseudorabies virus injected into the external urethral sphincter. Nadelhaft I, et al. **J Comp Neurol** 1996 Nov 18; 375(3):502–17

Activity of JC virus archetype and PML-type regulatory regions in glial cells. Ault GS. **J Gen Virol** 1997 Jan;78 (Pt 1):163–9

Scrapie strains retain their distinctive characteristics following passages of homogenates from different brain regions and spleen. Carp RI, et al. **J Gen Virol** 1997 Jan; 78 (Pt 1):283–90

The course of disease and persistence of virus in the central nervous system varies between individual CBA mice infected with the BeAn strain of Theiler's murine encephalomyelitis virus. Simas JP, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2701–11

Molecular characterization of virus-specific RNA produced in the brains of flavivirus-susceptible and -resistant mice after challenge with Murray Valley encephalitis virus. Urosevic N, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):23–9

Proinflammatory cytokines inhibit HIV-1(SF162) expression in acutely infected human brain cell cultures. Lokensgard JR, et al. **J Immunol** 1997 Mar 1;158(5):2449–55

Virus dissemination through the brain parenchyma without immunologic control. Stevenson PG, et al. **J Immunol** 1997 Aug 15;159(4):1876–84

Detection of polyomaviral DNA in clinical samples from immunocompromised patients: correlation with clinical disease. Perrons CJ, et al. **J Infect** 1996 May;32(3):205–9

JC virus (JCV) genotypes in brain tissue from patients with progressive multifocal leukoencephalopathy (PML) and in urine from controls without PML: increased frequency of JCV type 2 in PML. Agostini HT, et al. **J Infect Dis** 1997 Jul;176(1):1–8

HIV infection of macrophages and pathogenesis of AIDS dementia complex: interaction of the host cell and viral genotype. Cunningham AL, et al. **J Leukoc Biol** 1997 Jul; 62(1):117–25

Cellular aspects of HIV-1 infection of macrophages leading to neuronal dysfunction in in vitro models for HIV-1 encephalitis. Nottet HS, et al. **J Leukoc Biol** 1997 Jul; 62(1):107–16 (112 ref.)

Development of laboratory and animal model systems for HIV-1 encephalitis and its associated dementia. Persidsky Y, et al. **J Leukoc Biol** 1997 Jul;62(1):100–6

Fulminant demyelinating encephalomyelitis associated with productive HHV-6 infection in an immunocompetent adult. Novoa LJ, et al. **J Med Virol** 1997 Jul;52(3):301–8

Spread of measles virus through axonal pathways into limbic structures in the brain of TAP1 -/- mice. Urbanska EM, et al. **J Med Virol** 1997 Aug;52(4):362–9

Human herpes virus 6 and human herpes virus 8 DNA sequences in brains of multiple sclerosis patients, normal adults and children. Merelli E, et al. **J Neurol** 1997 Jul; 244(7):450–4

Selective vulnerability of mouse CNS neurons to latent infection with a neuroattenuated herpes simplex virus-1. Kesari S, et al. **J Neurosci** 1996 Sep 15;16(18):5644–53

Toxicity studies in thymidine kinase-deficient herpes simplex virus therapy for malignant astrocytoma. Jia WW, et al. **J Neurosurg** 1996 Oct;85(4):662–6

Amplification of the complete polyomavirus JC genome from brain, cerebrospinal fluid and urine using pre-PCR restriction enzyme digestion. Agostini HT, et al. **J Neurovirol** 1995 Sep;1(3-4):316–20

Co-infection with two JC virus genotypes in brain, cerebrospinal fluid or urinary tract detected by direct cycle sequencing of PCR products. Agostini HT, et al. **J Neurovirol** 1996 Aug;2(4):259–67

Influence of infectious dose upon productive replication and transynaptic passage of pseudorabies virus in rat central nervous system [see comments] Card JP, et al. **J Neurovirol** 1995 Dec;1(5-6):349–58. Comment in: J Neurovirol 1995 Dec;1(5-6):326–7.

Isolation and characterization of intranuclear ribonucleoprotein complexes associated with double-stranded RNA adenosine deaminase from brain cells: implications for RNA-editing and hypermutation of viral RNA in the CNS. Chen Z, et al. **J Neurovirol** 1995 Sep;1(3-4):295–306

Human immunodeficiency virus type 1 DNA and RNA load in brains of demented and nondemented patients with acquired immunodeficiency syndrome. Lazarini F, et al. **J Neurovirol** 1997 Aug;3(4):299–303

Decontamination of Creutzfeldt-Jakob disease and other transmissible agents. Manuelidis L. **J Neurovirol** 1997 Feb; 3(1):62–5

Efficient isolation of subacute sclerosing panencephalitis virus from patient brains by reference to magnetic resonance and computed tomographic images. Ogura H, et al. **J Neurovirol** 1997 Aug;3(4):304–9

Susceptibility to a neurotropic virus and its changing distribution in the developing brain is a function of CNS maturity. Oliver KR, et al. **J Neurovirol** 1997 Feb; 3(1):38–48

Cellular localization of human herpesvirus-6 in the brains of children with AIDS encephalopathy [see comments] Saito Y, et al. **J Neurovirol** 1995 Mar;1(1):30–9. Comment in: J Neurovirol 1995 Sep;1(3-4):321.

Detection of herpesviridae in postmortem multiple sclerosis brain tissue and controls by polymerase chain reaction. Sanders VJ, et al. **J Neurovirol** 1996 Aug;2(4):249–58

Neurovirulence of influenza A virus. Ward AC. **J Neurovirol** 1996 Jun;2(3):139–51 (150 ref.)

Isolation and characterization of a type II JC virus from a brain biopsy of a patient with PML. Zoltick PW, et al. **J Neurovirol** 1995 Sep;1(3-4):307–15

Immunohistologic diagnosis of pseudorabies (Aujeszky's disease) using monoclonal antibodies. Grieco V, et al.

J Vet Diagn Invest 1997 Jul;9(3):326–8

Immunohistochemical detection of porcine reproductive and respiratory syndrome virus antigen in neurovascular lesions. Thanawongnuwech R, et al. **J Vet Diagn Invest** 1997 Jul;9(3):334–7

Enhanced neuropathogenicity of avian influenza A virus by passages through air sac and brain of chicks. Silvano FD, et al. **J Vet Med Sci** 1997 Mar;59(3):143–8

Investigation of the dynamics of the spread of human immunodeficiency virus to brain and other tissues by evolutionary analysis of sequences from the p17gag and env genes. Hughes ES, et al. **J Virol** 1997 Feb;71(2):1272–80

Primary human immunodeficiency virus type 1 viremia and central nervous system invasion in a novel hu-PBL-immunodeficient mouse strain. Koyanagi Y, et al. **J Virol** 1997 Mar;71(3):2417–24

The range and distribution of murine central nervous system cells infected with the gamma(1)34.5- mutant of herpes simplex virus 1. Markovitz NS, et al. **J Virol** 1997 Jul; 71(7):5560–9

A model system for human cytomegalovirus-mediated modulation of human immunodeficiency virus type 1 long terminal repeat activity in brain cells. Moreno TN, et al. **J Virol** 1997 May;71(5):3693–701

Cytotoxic T-cell-resistant variants arise at early times after infection in C57BL/6 but not in SCID mice infected with a neurotropic coronavirus. Pewe L, et al. **J Virol** 1997 Oct; 71(10):7640–7

Parvovirus minute virus of mice strain i multiplication and pathogenesis in the newborn mouse brain are restricted to proliferative areas and to migratory cerebellar young neurons. Ramirez JC, et al. **J Virol** 1996 Nov; 70(11):8109–16

Neurologic disease induced by polytropic murine retroviruses: neurovirulence determined by efficiency of spread to microglial cells. Robertson SJ, et al. **J Virol** 1997 Jul;71(7):5287–94

Induction of degenerative brain lesions after adoptive transfer of brain lymphocytes from Borna disease virus-infected rats: presence of CD8+ T cells and perforin mRNA. Sobbe M, et al. **J Virol** 1997 Mar;71(3):2400–7

A rapid method for comparative quantitative polymerase chain reaction of HIV-1 proviral DNA extracted from cryopreserved brain tissues. Fujimura RK, et al. **J Virol Methods** 1997 Sep;67(2):177–87

Enhancement of immunohistochemical detection of HIV-1 p24 antigen in brain by tyramide signal amplification. Strappe PM, et al. **J Virol Methods** 1997 Aug;67(1):103–12

Borna disease virus and neuropsychiatric disorders. The Japan Bornavirus Study Group [letter; comment] Haga S, et al. **Lancet** 1997 Aug 23;350(9077):592–3. Comment on: Lancet 1997 Jun 21;349(9068):1813–4.

Herpes simplex virus type 1 in brain and risk of Alzheimer's disease [see comments] Itzhaki RF, et al. **Lancet** 1997 Jan 25;349(9047):241–4. Comment in: Lancet 1997 Apr 12;349(9058):1101; discussion 1101–2. Comment in: Lancet 1997 Apr 12;349(9058):1102.

Borna disease virus in brains of North American and European people with schizophrenia and bipolar disorder. Bornavirus Study Group [letter] [see comments] Salvatore M, et al. **Lancet** 1997 Jun 21;349(9068):1813–4. Comment in: Lancet 1997 Aug 23;350(9077):592–3. Comment in: Lancet 1997 Aug 23;350(9077):593.

Molecular mechanism for retroviral neuropathogenesis: possible involvement of capillary endothelial cells. Masuda M, et al. **Leukemia** 1997 Apr;11 Suppl 3:233–5

Demonstration of Borna disease virus (BDV) in specific regions of the brain from horses positive for serum antibodies to BDV but negative for BDV RNA in the blood and internal organs. Hagiwara K, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):19–24

Neurotropic viruses and Alzheimer disease. Interaction of herpes simplex type 1 virus and apolipoprotein E in the etiology of the disease. Lin WR, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):135–41

Herpes simplex virus and Alzheimer's disease [news] Jack DB. **Mol Med Today** 1996 Jul;2(7):270

Treatment of severe La Crosse encephalitis with intravenous ribavirin following diagnosis by brain biopsy. McJunkin JE, et al. **Pediatrics** 1997 Feb;99(2):261–7

Effect of the concentration of maternal antibodies on the neural invasion of Aujeszky's disease virus in neonatal pigs. Kritas SK, et al. **Vet Microbiol** 1997 Apr;55(1–4):29–36

Immunolocalisation of the prion protein (PrP) in the brains of sheep with scrapie. Foster JD, et al. **Vet Rec** 1996 Nov 23;139(21):512–5

Detection of borna disease virus antigen and RNA in human autopsy brain samples from neuropsychiatric patients. De La Torre JC, et al. **Virology** 1996 Sep 15;223(2):272–82

Distinct quasi-species in the blood and the brain of an HIV-2-infected individual. Sankalé JL, et al. **Virology** 1996 Dec 15;226(2):418–23

R7, a spontaneous mutant of Moloney murine sarcoma virus 124 with three direct repeats and an in-frame truncated gag-mos gene, induces brain lesions. Yuen PH, et al. **Virology** 1997 Sep 15;236(1):213–8

Expression and distribution of the receptors for coxsackievirus B3 during fetal development of the Balb/c mouse and of their brain cells in culture. Xu R, et al. **Virus Res** 1996 Dec;46(1–2):157–70

[Virology on AIDS and AIDS dementia complex] Hoshino H. **No To Shinkei** 1997 Jan;49(1):39–49 (23 ref.) **(Jpn)**

[Approaches to selecting a strain of hantavirus for developing an inactivated brain vaccine] Astakhova TI, et al. **Vopr Virusol** 1997 May–Jun;42(3):105–8 (Eng. Abstr.) **(Rus)**

[Effect of the attenuated strain (TC-83) of Venezuelan equine encephalitis virus on nuclear transcription in rat brain cells] Valero-Fuenmayor N, et al. **Invest Clin** 1996 Mar; 37(1):5–15 (Eng. Abstr.) **(Spa)**

[Neurological complications caused by cytomegalovirus in patients with AIDS] Reñé R, et al. **Rev Neurol** 1996 Dec; 24(136):1590–6 (70 ref.) (Eng. Abstr.) **(Spa)**

[The virus of human immunodeficiency: virological characteristics, natural history and physiopathology of the nervous system infection] Vidal-Lampurdanés C, et al. **Rev Neurol** 1996 Dec;24(136):1563–8 (44 ref.) (Eng. Abstr.) **(Spa)**

BRAIN ABSCESS

Childhood brain abscess in Saudi Arabia. Jamjoom A. **Ann Trop Paediatr** 1997 Mar;17(1):95–9

Central nervous system abscesses due to Coccidioides species. Bañuelos AF, et al. **Clin Infect Dis** 1996 Feb;22(2):240–50 (26 ref.)

Focal intracranial infections. Heilpern KL, et al. **Infect Dis Clin North Am** 1996 Dec;10(4):879–98 (77 ref.)

[Suppurative intracranial infections in Africa] Loembe PM, et al. **Med Trop (Mars)** 1997;57(2):186–94 (56 ref.) (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Brain abscess in hereditary hemorrhagic telangiectasia. Kubaska SM, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):240

Childhood brain abscess in Saudi Arabia. Jamjoom A. **Ann Trop Paediatr** 1997 Mar;17(1):95–9

Multiple cryptococcal brain abscesses in systemic lupus erythematosus [letter] Huang JL, et al. **Br J Rheumatol** 1996 Dec;35(12):1334–5

Recurrent brain abscesses in an HIV-positive patient with hereditary hemorrhagic telangiectasia and arteriovenous malformations of the lung. Thurnheer R, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):407–10 (20 ref.)

Bilateral otogenic temporal lobe and post-aural abscesses. Gupta AK, et al. **J Laryngol Otol** 1997 Mar;111(3):284–5

Long-term survival of an AIDS patient with a tuberculous cerebral abscess. Gettler JF, et al. **J Natl Med Assoc** 1996 Sep;88(9):605–6

Associated blepharospasm in lower pontine lesions [letter; comment] Nair KR. **Neurology** 1997 Feb;48(2):553. Comment on: Neurology 1996 Feb;46(2):476–8.

Gingivitis, facial weakness and focal seizures. Lee PY, et al. **Postgrad Med J** 1997 Jun;73(860):327–8

Abscess superimposed on brain tumor: two case reports and review of the literature. Nassar SI, et al. **Surg Neurol** 1997 May;47(5):484–8 (14 ref.)

[Fatal brain stem infarction due to rupture of a brain abscess: a case report] Kon H, et al. **No Shinkei Geka** 1997 May; 25(5):455–9 (Eng. Abstr.) **(Jpn)**

[Syringomyelia appearing in a short term after brain abscess] Matsumoto H, et al. **No Shinkei Geka** 1997 Mar; 25(3):277–82 (Eng. Abstr.) **(Jpn)**

[Otogenic abscess of temporal lobe breaking into the lateral ventricle of brain with good outcome] Gadzhimirzaev GA, et al. **Vestn Otorinolaringol** 1997;(2):54 **(Rus)**

DIAGNOSIS

Neuroradiology case of the day. Multiple cerebral abscesses associated with isolated pulmonary arteriovenous malformation. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):296, 299–302

Tuberculous brain abscess in a patient with HIV infection: case report and review. Farrar DJ, et al. **Am J Med** 1997 Mar;102(3):297–301 (49 ref.)

Abscess formation in posterior fossa dermoid cysts [letter] Erdem G, et al. **Childs Nerv Syst** 1997 Jun;13(6):297

An infant with fever and convulsions. Bacteroides fragilis brain abscess and meningitis. Carapetis J, et al. **Eur J Pediatr** 1996 Jun;155(6):517–8

Central nervous system infection due to Clostridium septicum: a case report and review of the literature. Cheng YT, et al. **Infection** 1997 May–Jun;25(3):171–4 (14 ref.)

Multiple bilateral cerebral abscesses with hemorrhage. Baumann CK. **J Neurosci Nurs** 1997 Feb;29(1):4–8, 13–4

Diagnosis of brain abscess by magnetic resonance spectroscopy. Report of two cases. Martinez-Pérez I, et al. **J Neurosurg** 1997 Apr;86(4):708–13

Discrimination of brain abscess from necrotic or cystic tumors by diffusion-weighted echo planar imaging. Ebisu T, et al. **Magn Reson Imaging** 1996;14(9):1113–6

MRI of pituitary abscess: two cases and review of the literature. Wolansky LJ, et al. **Neuroradiology** 1997 Jul; 39(7):499–503 (35 ref.)

Brain abscess and brain tumor: discrimination with in vivo H-1 MR spectroscopy. Kim SH, et al. **Radiology** 1997 Jul; 204(1):239–45

Diagnostic and staged stereotactic aspiration of multiple bihemispheric pyogenic brain abscesses. Chacko AG, et al. **Surg Neurol** 1997 Sep;48(3):278–82; discussion 282–3

[Bacterial brain abscess--experiences with 67 patients] Berlit P, et al. **Fortschr Neurol Psychiatr** 1996 Aug;64(8):297–306 (55 ref.) (Eng. Abstr.) **(Ger)**

[The interesting case no. 3. Cholesteatoma with brain abscess and irritant meningitis] Stöver T, et al. **Laryngorhinootologie** 1997 Jun;76(6):384–6 **(Ger)**

DRUG THERAPY

Short course antimicrobial therapy in intracranial abscess. Jamjoom AB. **Acta Neurochir (Wien)** 1996;138(7):835–9

Disseminated and cerebral infection due to Nocardia farcinica: diagnosis by blood culture and cure with antibiotics alone. Peters BR, et al. **Clin Infect Dis** 1996 Nov;23(5):1165–7

Treatment of cerebral Aspergillosis with itraconazole: do high doses improve the prognosis? [see comments] Sánchez C, et al. **Clin Infect Dis** 1995 Dec;21(6):1485–7 (12 ref.). Comment in: Clin Infect Dis 1996 Nov;23(5):1196–7.

Imipenem therapy of brain abscesses. Asensi V, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug;15(8):653–7

Successful medical treatment of multiple Serratia marcescens brain abscesses in a neonate [letter] Kimpen JL, et al. **Eur J Pediatr** 1996 Oct;155(10):916

Resolution of a brainstem abscess through antituberculous therapy. García-Moncó JC, et al. **Neurology** 1997 Jul; 49(1):265–7

Multiple brain abscesses in a 25-year-old patient with cystic fibrosis, successfully treated with an anti-Pseudomonas plus anti-mycobacterial antibiotic regimen [letter] Wiersbitzky SK, et al. **Pediatr Pulmonol** 1997 May;23(5):389–91

Pefloxacin-induced arthropathy in an adolescent with brain abscess. Chang H, et al. **Scand J Infect Dis** 1996;28(6):641–3

EPIDEMIOLOGY

Brain abscess in solid organ transplant recipients receiving cyclosporine-based immunosuppression. Selby R, et al. **Arch Surg** 1997 Mar;132(3):304–10

ETIOLOGY

Retropharyngeal and epidural abscess from a swallowed fish bone. Tsai YS, et al. **Am J Emerg Med** 1997 Jul;15(4):381–2

Monosymptomatic hypochondriacal psychosis complicated by self-inflicted skin ulceration, skull defect and brain abscess. Wang CK, et al. **Br J Dermatol** 1997 Aug; 137(2):299–302

Multiple brain abscesses following esophageal dilation [letter] Bautista-Casasnovas A, et al. **Childs Nerv Syst** 1996 Jan; 12(1):1

Brain abscess caused by Wangiella dermatitidis: case report. Ajanee N, et al. **Clin Infect Dis** 1996 Jul;23(1):197–8

A case of brain abscess as complication of esophageal dilation for caustic stenosis. Appignani A, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):42–3

Cervical epidural abscess due to actinomycosis: demonstration by MRI. Maeder PP, et al. **Eur Neurol** 1996; 36(1):56–7

Brain abscess caused by Schizophyllum commune: an emerging basidiomycete pathogen. Rihs JD, et al. **J Clin Microbiol** 1996 Jul;34(7):1628–32 (13 ref.)

Cerebral abscess as an unusual complication of coil embolization in a dural arteriovenous fistula. Case report. Zurin AA, et al. **J Neurosurg** 1997 Jul;87(1):109–12

Cerebellar abscess associated with pulmonary arteriovenous fistula and hereditary hemorrhagic telangiectasia--case report. Ogino M, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):575–9

Posttraumatic gas-containing brain abscess caused by Clostridium perfringens with unique simultaneous fungal suppuration by Myceliophthora thermophila: case report. Tekkök IH, et al. **Neurosurgery** 1996 Dec;39(6):1247–51

Brain abscesses due to Geotrichum candidum. Kasantikul V, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):805–7 (9 ref.)

Brain abscess in renal transplant recipients: report of three cases. Gupta SK, et al. **Surg Neurol** 1997 Sep;48(3):284–7

Multiple Cladosporium brain abscesses in a renal transplant patient: aggressive management improves outcome. Salama AD, et al. **Transplantation** 1997 Jan 15;63(1):160–2

[Brain abscess as a complication of ear malignancy: a case report] Liu CM, et al. **Chang Keng I Hsueh** 1995 Dec; 18(4):409–12 (Eng. Abstr.) **(Chi)**

[Cerebral abscess and cyanotic congenital heart disease] Guérin P, et al. **Arch Mal Coeur Vaiss** 1997 May; 90(5):651–4 (Eng. Abstr.) **(Fre)**

[Percutaneous alcoholization of hepatocellular carcinoma complicated by acute endocarditis on aortic valvulopathy and cerebral abscess (letter)] Vuillemin E, et al. **Gastroenterol Clin Biol** 1997;21(5):441–2 **(Fre)**

[Cerebral chromoblastomycosis. Apropos of a case. Review of the literature] Diaz A, et al. **Neurochirurgie** 1996; 42(2):95–9 (16 ref.) (Eng. Abstr.) **(Fre)**

[Neurosurgical aspects of Rendu-Osler disease. Apropos of 6 recent cases and review of the literature] Emery E, et al. **Neurochirurgie** 1996;42(4–5):221–8 (25 ref.) (Eng. Abstr.) **(Fre)**

[Salmonella typhimurium cerebral abscess in a patient with HIV infection (letter; comment)] Gueit I, et al. **Presse Med** 1996 Dec 21;25(40):2052. Comment on: Presse Med 1996 Mar 30;25(11):556. **(Fre)**

[Streptococcus constellatus cerebral abscess in a patient with HIV infection (letter)] Passeron C, et al. **Presse Med** 1997 Jul 12;26(24):1145 **(Fre)**

BRAIN ABSCESS

[Endocranial complications of acute and chronic otitis media in children and adolescents] Schwager K, et al. **Laryngorhinootologie** 1997 Jun;76(6):335–40 (Eng. Abstr.) **(Ger)**

[Fatal sepsis due to long-term use of intrauterine device] Novák L. **Orv Hetil** 1997 Jul 27;138(30):1909–10 (Eng. Abstr.) **(Hun)**

[Putaminal abscess occurring at the site of hemorrhage: a case report] Sumioka S, et al. **No Shinkei Geka** 1996 Sep; 24(9):859–63 (Eng. Abstr.) **(Jpn)**

[A case of cerebral aspergillosis associated with induction chemotherapy for acute lymphoblastic leukemia] Okamoto K, et al. **No To Shinkei** 1996 Nov;48(11):1047–51 (Eng. Abstr.) **(Jpn)**

[Multiple brain abscesses following appendicectomy: case report] Schops M, et al. **Arq Neuropsiquiatr** 1996 Jun; 54(2):328–30 (Eng. Abstr.) **(Por)**

IMMUNOLOGY

Brain abscess in solid organ transplant recipients receiving cyclosporine-based immunosuppression. Selby R, et al. **Arch Surg** 1997 Mar;132(3):304–10

METABOLISM

In vivo 1H MRS of brain abscesses versus necrotic brain tumors. Grand S, et al. **Neurology** 1996 Sep;47(3):846–8

Posttraumatic gas-containing brain abscess caused by Clostridium perfringens with unique simultaneous fungal suppuration by Myceliophthora thermophila: case report. Tekkök IH, et al. **Neurosurgery** 1996 Dec;39(6):1247–51

MICROBIOLOGY

Magnetic resonance imaging of abscesses of the brain stem and cerebellum complicating Listeria monocytogenes rhombencephalitis. Salgado MJ, et al. **Can Assoc Radiol J** 1996 Dec;47(6):431–3

Polymicrobial brain abscess in a patient infected with human immunodeficiency virus. Maniglia RJ, et al. **Clin Infect Dis** 1997 Mar;24(3):449–51 (12 ref.)

Cerebral lesions in two patients with AIDS: the possible role of Mycobacterium kansasii [letter; comment] Monno L, et al. **Clin Infect Dis** 1996 Jun;22(6):1130–1. Comment on: Clin Infect Dis 1995 Jul;21(1):77–85.

Successful medical treatment of multiple Serratia marcescens brain abscesses in a neonate [letter] Kimpen JL, et al. **Eur J Pediatr** 1996 Oct;155(10):916

Cervical epidural abscess due to actinomycosis: demonstration by MRI. Maeder PP, et al. **Eur Neurol** 1996; 36(1):56–7

Etiological agents and predisposing factors of intracranial abscesses in a Greek university hospital. Sofianou D, et al. **Infection** 1996 Mar–Apr;24(2):144–6

Cerebral abscesses in a patient with AIDS caused by methicillin-resistant Staphylococcus aureus (MRSA). Smith NP, et al. **Int J STD AIDS** 1997 Jul;8(7):459–60

Gordona terrae central nervous system infection in an immunocompetent patient. Drancourt M, et al. **J Clin Microbiol** 1997 Feb;35(2):379–82

Favorable outcome possible in Citrobacter brain abscess [letter] Leggiadro RJ. **Pediatr Infect Dis J** 1996 Jun; 15(6):557

Polymicrobial brain abscess involving Haemophilus paraphrophilus and Actinomyces odontolyticus. Simpson AJ, et al. **Postgrad Med J** 1996 May;72(847):297–306

[Cerebral abscess in childhood: a report of 5 cases] Ubeda Sansano MI, et al. **An Esp Pediatr** 1996 Aug;45(2):177–80 **(Spa)**

[Cerebral abscess of otic origin caused conjointly by Proteus mirabilis and Alcaligenes faecalis (letter)] Ojeda-Vargas M, et al. **Enferm Infecc Microbiol Clin** 1995 Dec;13(10):635 **(Spa)**

PATHOLOGY

Abscess within a brain metastasis. Ng WP, et al. **Can J Neurol Sci** 1996 Nov;23(4):300–2

Pituitary abscess. A case report and review of the literature. Martines F, et al. **J Neurosurg Sci** 1996 Jun;40(2):135–8

Cerebral manifestation of an actinomycosis infection. A case report. Winking M, et al. **J Neurosurg Sci** 1996 Jun; 40(2):145–8

[An otogenic cerebellar abscess in a child with favorable outcome] Portenko GM, et al. **Vestn Otorinolaringol** 1997; (4):52–3 **(Rus)**

PHYSIOPATHOLOGY

Cerebellar abscess associated with pulmonary arteriovenous fistula and hereditary hemorrhagic telangiectasia—case report. Ogino M, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):575–9

RADIOGRAPHY

Sinusogenous intracerebral inflammatory complications in CT-imaging. Złomaniec J, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:35–40

A 36-year-old woman with a chest mass and altered mental status. Garner EC, et al. **Chest** 1997 Sep;112(3):836–9

Sudden 'stroke-like' onset of homonymous hemianopsia due to bacterial brain abscess. Shintani S, et al. **J Neurol Sci** 1996 Nov;143(1–2):190–4 (13 ref.)

MR imaging and CT of pituitary abscess: case report and review. Kabuto M, et al. **Neurol Res** 1996 Dec;18(6):495–8 (22 ref.)

Ring-enhancing lesions on computed tomography. Brid NS, et al. **Postgrad Med J** 1997 Jun;73(860):355–6

The T2 hypointense brain abscess capsule: is it pathognomonic? Kuzman BB, et al. **Surg Neurol** 1997 Sep; 48(3):298–9

[Heart valve disease. Brain abscess in aortic valve endocarditis] Drochner U, et al. **Radiologe** 1996 Dec; 36(12):995–6 **(Ger)**

RADIONUCLIDE IMAGING

Evaluation of a patient with a brain abscess caused by nocardia asteroides infection with Ga-67 and Tc-99m HMPAO leukocytes. Orsolon P, et al. **Clin Nucl Med** 1997 Jun;22(6):407–8

SURGERY

Muslin induced granuloma following wrapping of intracranial aneurysms: the role of infection as an additional precipitating factor. Report of two cases and review of the literature. Kirollos RW, et al. **Acta Neurochir (Wien)** 1997;139(5):411–5

Failure of intravenous antibiotic therapy of multiple temporal brain abscesses due to Propionibacterium acnes requiring temporal lobectomy. Senneville E, et al. **J Infect** 1997 May; 34(3):269–71

Brainstem abscess: preoperative MRI appearance and survival following stereotactic aspiration. Bavetta S, et al. **J Neurosurg Sci** 1996 Jun;40(2):139–43 (21 ref.)

Pituitary abscess. A case report and review of the literature. Martines F, et al. **J Neurosurg Sci** 1996 Jun;40(2):135–8

Treatment of brain abscess associated with ventricular rupture—three case reports. Isono M, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):630–6 (23 ref.)

Intracerebral Aspergillus abscess: case report and review of the literature. Artico M, et al. **Neurosurg Rev** 1997; 20(2):135–8 (34 ref.)

A mucopyocele of the clivus: case report. Chua R, et al. **Neurosurgery** 1996 Sep;39(3):589–90; discussion 590–1

Cerebellar abscess: the significance of cerebrospinal fluid diversion. Nadvi SS, et al. **Neurosurgery** 1997 Jul; 41(1):61–6; discussion 66–7

Diagnostic and staged stereotactic aspiration of multiple bihemispheric pyogenic brain abscesses. Chacko AG, et al. **Surg Neurol** 1997 Sep;48(3):278–82; discussion 282–3

[How to manage intracranial empyemas in the absence of computerized tomography?] Loembe PM, et al. **Sante** 1997 May–Jun;7(3):173–6 (Eng. Abstr.) **(Fre)**

[Single stage excision for an intractable brain abscess and free rectus abdominis flap for reconstruction of the anterior skull base] Katoh M, et al. **No Shinkei Geka** 1997 May; 25(5):461–5 (Eng. Abstr.) **(Jpn)**

THERAPY

Recurrent brain abscesses in an HIV-positive patient with hereditary hemorrhagic telangiectasia and arteriovenous malformations of the lung. Thurnheer R, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):407–10 (20 ref.)

Stereotactic aspiration and drainage of brain abscesses. Experience with 9 cases. Skrap M, et al. **Minim Invasive Neurosurg** 1996 Dec;39(4):108–12

VETERINARY

Meningoencephalitis and brain abscessation due to Escherichia coli in a 2 week old alpaca cria. Tsur I, et al. **Aust Vet J** 1996 Dec;74(6):437–8

BRAIN CHEMISTRY

Perineuronal sulfated proteoglycans in the adult rat brain: histochemical and electron microscopic studies. Tsubouchi Y, et al. **Acta Med Okayama** 1996 Oct;50(5):237–41

In vivo estimation of water content in cerebral white matter of brain tumour patients and normal individuals: towards a quantitative brain oedema definition. Andersen C. **Acta Neurochir (Wien)** 1997;139(3):249–55; discussion 255–6

The neurochemistry of Alzheimer's disease. Engelborghs S, et al. **Acta Neurol Belg** 1997 Jun;97(2):67–84 (226 ref.)

Up-regulation of intercellular adhesion molecule 1 in cerebral microvessels after cortical contusion trauma in a rat model. Isaksson J, et al. **Acta Neuropathol (Berl)** 1997 Jul; 94(1):16–20

Distribution of GLP-1 and PACAP receptors in human tissues. Wei Y, et al. **Acta Physiol Scand** 1996 Jul; 157(3):355–7 (7 ref.)

Reproducibility of proton MR spectroscopic imaging findings. Tedeschi G, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1871–9

The role of the blood-brain barrier transporter PTS-1 in regulating concentrations of methionine enkephalin in blood and brain. Banks WA, et al. **Alcohol** 1997 May–Jun; 14(3):237–45

Reduced frontal cortex inositol levels in postmortem brain of suicide victims and patients with bipolar disorder. Shimon H, et al. **Am J Psychiatry** 1997 Aug;154(8):1148–50

Dopamine reuptake site densities in patients with social phobia. Tiihonen J, et al. **Am J Psychiatry** 1997 Feb; 154(2):239–42

Brain and blood concentrations of propofol after rapid intravenous injection in sheep, and their relationships to cerebral effects. Ludbrook GL, et al. **Anaesth Intensive Care** 1996 Aug;24(4):445–52

Quantitative, video-based histochemistry to measure regional effects of anticholinesterase pesticides in rat brain. Hammond PI, et al. **Anal Biochem** 1996 Oct 1;241(1):82–92

HIV-1 DNA in brains in AIDS and pre-AIDS: correlation with the stage of disease. An SF, et al. **Ann Neurol** 1996 Oct;40(4):611–7

Machado-Joseph disease gene product is a cytoplasmic protein widely expressed in brain. Paulson HL, et al. **Ann Neurol** 1997 Apr;41(4):453–62

Cellular distribution of the P2X4 ATP receptor mRNA in the brain and non-neuronal organs of rats. Tanaka J, et al. **Arch Histol Cytol** 1996 Dec;59(5):485–90

Electrochemical fixation techniques. I. Electrochemical fixation of human brain. Garzon-De La Mora P, et al. **Arch Med Res** 1996 Spring;27(1):37–42

Structural motif and characteristics of the extracellular domain of P2X receptors. Hansen MA, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):670–5

Isolation, chemical characterization, and quantitation of A beta 3-pyroglutamyl peptide from neuritic plaques and vascular amyloid deposits. Kuo YM, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):188–91

Stac, a novel neuron-specific protein with cysteine-rich and SH3 domains. Suzuki H, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):902–9

Machado-Joseph disease gene product identified in lymphocytes and brain. Wang G, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):476–9

Identification of two homologous cytochrome b5s in rat brain. Yoo M. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):641–2

A novel endothelin receptor type-B-like gene enriched in the brain. Zeng Z, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):559–67

Purification and biochemical characterization of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid/kainate-sensitive L-glutamate receptors of pig brain. Chang YC, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):49–57

Distinct biochemical properties of the native members of the G12 G-protein subfamily. Characterization of G alpha 12 purified from rat brain. Harhammer R, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):165–71

Synthesis and imaging of blood-brain-barrier permeable nitroxyl-probes for free radical reactions in brain of living mice. Sano H, et al. **Biochem Mol Biol Int** 1997 Jul; 42(3):641–7

The relationship between the fatty acid composition of the lipids of the yolk and the brain of the duck embryo. Speake BK, et al. **Biochem Soc Trans** 1996 May;24(2):181S

Comparison of the salt-dependent self-association of brain and erythroid spectrin. Begg GE, et al. **Biochemistry** 1997 Jun 10;36(23):6977–85

Determination of calcium-binding sites in rat brain calbindin D28K by electrospray ionization mass spectrometry. Veenstra TD, et al. **Biochemistry** 1997 Mar 25; 36(12):3535–42

Identification of NAP-22 and GAP-43 (neuromodulin) as major protein components in a Triton insoluble low density fraction of rat brain. Maekawa S, et al. **Biochim Biophys Acta** 1997 Jan 14;1323(1):1–5

Regulation of membrane lipid bilayer structure during seasonal variation: a study on the brain membranes of Clarias batrachus. Roy R, et al. **Biochim Biophys Acta** 1997 Jan 14;1323(1):65–74

Distribution of thyrotropin-releasing hormone (TRH) receptors in the brain of the ataxic mutant mouse, rolling mouse Nagoya. Kinoshita K, et al. **Biol Pharm Bull** 1997 Jan;20(1):86–7

Determination of selenium in the human brain by graphite furnace atomic absorption spectrometry. Ejima A, et al. **Biol Trace Elem Res** 1996 Jul;54(1):9–21

Heavy metals in the brain of long-tailed duck (Clangula hyemalis) wintering in the Pomeranian Bay, Poland. Kalisinska E, et al. **Biol Trace Elem Res** 1996 Oct–Nov; 55(1–2):191–7

Isolation of nuclear proteins from human brains. Zhang X, et al. **Biotechniques** 1997 May;22(5):848–50

Changes of glycosaminoglycan composition in aging chicken brain. A preliminary investigation. Pane G, et al. **Boll Soc Ital Biol Sper** 1996 Nov–Dec;72(11–12):309–15

Assay of insulin receptors in mouse brain. Zaia A, et al. **Boll Soc Ital Biol Sper** 1996 Mar–Apr;72(3–4):95–102

Intrapartum fetal cerebral near infrared spectroscopy: apparent change in oxygenation demonstrated in a nonviable fetus. University of London Near Infrared Spectroscopy Group [letter; comment] O'Brien PJ, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):1053–4. Comment on: Br J Obstet Gynaecol 1995 Dec;102(12):1004–7.

Characterization of the human brain putative A2B adenosine receptor expressed in Chinese hamster ovary (CHO.A2B4) cells. Alexander SP, et al. **Br J Pharmacol** 1996 Nov; 119(6):1286–90

Magnetic resonance spectroscopy in psychiatry: basic principles and applications. Frangou S, et al. **Br Med Bull** 1996 Jul;52(3):474–85 (43 ref.)

Purification and properties of the 26S proteasome from the rat brain: evidence for its degradation of myelin basic

protein in a ubiquitin-dependent manner. Akaishi T, et al. **Brain Res** 1996 May 25;722(1-2):139-44

Expression of a novel angiotensin II receptor subtype in gerbil brain. de Oliveira AM, et al. **Brain Res** 1995 Dec 24;705(1-2):177-87

Distribution of Lys-gamma 2-melanocyte-stimulating hormone- (Lys-gamma 2-MSH)-like immunoreactivity in neuronal elements in the brain and peripheral tissues of the rat. Fodor M, et al. **Brain Res** 1996 Aug 26; 731(1-2):182-9

Relationships between convulsive seizures and serum and brain concentrations of phenobarbital and zonisamide in mutant inbred strain EL mouse. Nagatomo I, et al. **Brain Res** 1996 Aug 26;731(1-2):190-8

Alterations in N-methyl-D-aspartate receptor binding in dystonic hamster brains. Nobrega JN, et al. **Brain Res** 1997 Jan 2;744(1):161-5

Immunocytochemical localization of type I 17 beta-hydroxysteroid dehydrogenase in the rat brain. Pelletier G, et al. **Brain Res** 1995 Dec 18;704(2):233-39

Modification of the glycine (co-activator) binding site of the N-methyl-D-aspartate receptor in the guinea pig fetus brain during development following hypoxia. Razdan B, et al. **Brain Res** 1996 Sep 9;733(1):15-20

Localization of calcium receptor mRNA in the adult rat central nervous system by in situ hybridization. Rogers KV, et al. **Brain Res** 1997 Jan 2;744(1):47-56

Satietin: Fos mapping of putative brain sites of action. Rowland NE, et al. **Brain Res** 1996 Apr 22;717(1-2):189-92

Latent inhibition in conditioned emotional response: c-fos immunolabelling evidence for brain areas involved in the rat. Sotty F, et al. **Brain Res** 1996 Oct 21;737(1-2):243-54

The distribution of iron in the brain: a phylogenetic analysis using iron histochemistry. Erb GL, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):120-8

A quantitative analysis of rat central nervous system myelination using the immunohistochemical method for MBP. Hamano K, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):18-22

Postnatal development of peripheral-type benzodiazepine receptors in rat brain and peripheral tissues. Kurumaji A, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):148-51

Cloning and expression of the proteolipid protein DM20 cDNA from the brain of the rainbow trout, Oncorhynchus mykiss. Tang S, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):134-9

Ion microscopy imaging of 10B from p-boronophenylalanine in a brain tumor model for boron neutron capture therapy. Smith DR, et al. **Cancer Res** 1996 Oct 1;56(19):4302-6

Implications of aging- and degeneration-related changes in anion exchange proteins for the maintenance of neuronal homeostasis. Bosman GJ, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Nov;42(7):905-18

In vivo monitoring of brain neurotransmitter release for the assessment of neuroendocrine interactions. Mas M, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):383-96 (51 ref.)

Protein complexes containing gamma-tubulin are present in mammalian brain microtubule protein preparations. Detraves C, et al. **Cell Motil Cytoskeleton** 1997; 36(2):179-89

Distribution of neuropeptide Y-like immunoreactivity in the brain of the bichir, Polypterus senegalus, with special regard to the terminal nerve. Chiba A. **Cell Tissue Res** 1997 Aug;289(2):275-84

Biochemical and histological analysis of two Müller cell antibodies in developing and adult cat and rat central nervous system. Distler C, et al. **Cell Tissue Res** 1997 Sep; 289(3):411-26

Distribution of vasotocin- and mesotocin-like immunoreactivities in the brain of typhlonectes compressicauda (Amphibia, gymnophiona): further assessment of primitive and derived traits of amphibian neuropeptidergic systems. González A, et al. **Cell Tissue Res** 1997 Feb;287(2):305-14

Distribution of [3H]-sumatriptan binding sites in human brain [editorial; comment] Connor HE. **Cephalalgia** 1996 Aug; 16(5):287-8. Comment on: Cephalalgia 1996 Aug;16(5):317-22.

Autoradiographic distribution of [3H]sumatriptan-binding sites in post-mortem human brain [see comments] Pascual J, et al. **Cephalalgia** 1996 Aug;16(5):317-22. Comment in: Cephalalgia 1996 Aug;16(5):287-8.

The central distribution of adrenomedullin and its effects on blood pressure and heart rate in rats. Wei Y, et al. **Chin Med Sci J** 1996 Mar;11(1):1-7

Identification and characterization of metallothionein III (growth inhibitory factor) from porcine brain. Chen CF, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep;115(1):27-32

The fatty acid composition of brain phospholipids from chicken and duck embryos. Maldjian A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):153-8

Brain parenchyma PO2, PCO2, and pH during and after hypoxic, ischemic brain insult in dogs. McKinley BA, et al. **Crit Care Med** 1996 Nov;24(11):1858-68

Continuous noninvasive measurement of cerebral arterial and venous oxygen saturation at the bedside in mechanically ventilated neonates. Wolf M, et al. **Crit Care Med** 1997 Sep;25(9):1579-82

Association of Engrailed homeoproteins with vesicles presenting caveolae-like properties. Joliot A, et al. **Development** 1997 May;124(10):1865-75

Guinea pig preprodynorphin mRNA: primary structure and regional quantitation in the brain. Yuferov VP, et al. **DNA Cell Biol** 1996 Dec;15(12):1105-12

Effect of alcohol coadministration on the plasma and brain concentrations of cocaine in rats. Hedaya MA, et al. **Drug Metab Dispos** 1997 May;25(5):647-50

Immunohistochemical expression of cell adhesion molecule L1 during development of the human brain. Tsuru A, et al. **Early Hum Dev** 1996 Jul 5;45(1-2):93-101

Identification of a nuclear protein from rat developing brain as heterodimerization partner with thyroid hormone receptor-beta. Huo B, et al. **Endocrinology** 1997 Aug; 138(8):3283-9

Purification and functional characterization of a low-molecular-mass Na+, K+-ATPase inhibitor protein from rat brain cytosol. Bhattacharyya D, et al. **Eur J Biochem** 1997 Mar 15;244(3):829-34

Apomorphine is a highly potent free radical scavenger in rat brain mitochondrial fraction. Gassen M, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):219-25

A laser microprobe mass analysis of brain aluminum and iron in dementia pugilistica: comparison with Alzheimer's disease. Bouras C, et al. **Eur Neurol** 1997;38(1):53-8

Complexes between kinases, mitochondrial porin and adenylate translocator in rat brain resemble the permeability transition pore. Beutner G, et al. **FEBS Lett** 1996 Nov 4;396(2-3):189-95

Isolation and measurement of the endogenous cannabinoid receptor agonist, anandamide, in brain and peripheral tissues of human and rat. Felder CC, et al. **FEBS Lett** 1996 Sep 16;393(2-3):231-5

Isolation and characterization of a novel monomeric zinc- and heme-containing protein from bovine brain. Fundel SM, et al. **FEBS Lett** 1996 Oct 14;395(1):33-8

Cleavage of the synaptobrevin/vesicle-associated membrane protein (VAMP) of the mouse brain by the recombinant light chain of Clostridium botulinum type B toxin. Rhee SD, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):203-8

Cerebral gangliogliomas. Morphological and immunohistochemical study. Kroh H, et al. **Folia Neuropathol** 1996;34(2):107-13

Lectin histochemistry in the rats brain in experimental postresuscitation syndrome. (Early and late changes). Szumańska G. **Folia Neuropathol** 1996;34(2):76-86

A sandwich enzyme immunoassay for brain S-100 protein and its forensic application. Seo Y, et al. **Forensic Sci Int** 1997 Jun 6;87(2):145-54

Involvement of calpain in postmortem proteolysis in the rat brain. Sorimachi Y, et al. **Forensic Sci Int** 1996 Aug 15; 81(2-3):165-74

Forensic analysis of 10 barbiturates in human biological samples using a new reversed-phase chromatographic column packed with 2-micrometre porous microspherical silica-gel. Tanaka E, et al. **Forensic Sci Int** 1997 Feb 7; 85(1):73-82

Decrease in cerebral free magnesium concentration following closed head injury and effects of VA-045 in rats. Suzuki M, et al. **Gen Pharmacol** 1997 Jan;28(1):119-21

Characterization of a cDNA encoding a subunit of the rat brain rsec6/8 complex. Hazuka CD, et al. **Gene** 1997 Mar 10;187(1):67-73

Cloning and sequencing analysis of a human synapsin IIb-encoding brain cDNA. Xie Y. **Gene** 1996 Sep 16; 173(2):289-90

A vector for expressing foreign genes in the brains and hearts of transgenic mice. Borchelt DR, et al. **Genet Anal** 1996 Dec;13(6):159-63

Novel expression and localization of active thrombomodulin on the surface of mouse brain astrocytes. Pindon A, et al. **Glia** 1997 Mar;19(3):259-68

Brain extracellular matrix. Ruoslahti E. **Glycobiology** 1996 Jul;6(5):489-92 (50 ref.)

Portacaval anastomosis induces region-selective alterations of the endogenous opioid system in the rat brain. de Waele JP, et al. **Hepatology** 1996 Oct;24(4):895-901

Regional cerebral edema and chloride space in galactosamine-induced liver failure in rats. Gove CD, et al. **Hepatology** 1997 Feb;25(2):295-301

Neuroactive amino acids and glutamate (NMDA) receptors in frontal cortex of rats with experimental acute liver failure. Michalak A, et al. **Hepatology** 1996 Oct; 24(4):908-13

Development of arginine vasotocin innervation in two species of anuran amphibian: Rana catesbeiana and Rana sylvatica. Mathieson WB. **Histochem Cell Biol** 1996 Apr; 105(4):305-18

Distinct subcellular localization of beta-tubulin epitopes in the adult mouse brain. Nováková M, et al. **Histochem Cell Biol** 1997 Apr;107(4):337-44

Radioimagers as an alternative to film autoradiography for in situ quantitative analysis of 125I-ligand receptor binding and pharmacological studies. Crumeyrolle-Arias M, et al. **Histochem J** 1996 Nov;28(11):801-9

Characterization of proteoglycan-containing perineuronal nets by enzymatic treatments of rat brain sections. Köppe G, et al. **Histochem J** 1997 Jan;29(1):11-20

5-HT receptors in mammalian brain: receptor autoradiography and in situ hybridization studies of new ligands and newly identified receptors. Mengod G, et al. **Histochem J** 1996 Nov;28(11):747-58

cDNAs with long CAG trinucleotide repeats from human brain. Margolis RL, et al. **Hum Genet** 1997 Jul; 100(1):114-22

Reduced levels of dystrophin associated proteins in the brains of mice deficient for Dp71. Greenberg DS, et al. **Hum Mol Genet** 1996 Sep;5(9):1299-303

Regional distribution of tissue kallikrein in the human brain. Raidoo DM, et al. **Immunopharmacology** 1996 May; 32(1-3):39-47

Colorimetric determination of blood and brain ammonia in vitro by a modified method. Jayakumar AR, et al. **Indian J Biochem Biophys** 1996 Jun;33(3):231-3

Immunohistochemical mapping of rat brain delta opioid receptor. Anand DJ, et al. **Indian J Exp Biol** 1995 Jan; 33(1):44-7

ADP-ribosylated actin as part of the actin monomer pool in rat brain. Tsuyama S, et al. **Int J Biochem Cell Biol** 1997 Feb;29(2):293-301

Analysis of PrPc mRNA by in situ hybridization in brain, placenta, uterus and testis of rats. Tanji K, et al. **Intervirology** 1995;38(6):309-15

1H magnetic resonance spectroscopy reveals neuronal injury in a simian immunodeficiency virus macaque model. Tracey I, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):21-7

Growth performance and brain neurotransmitters in pigs as affected by tryptophan, protein, and sex. Henry Y, et al. **J Anim Sci** 1996 Nov;74(11):2700-10

Evidence for the existence of Ca2+/calmodulin-dependent protein kinase IV kinase isoforms in rat brain. Okuno S, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1176-81

Preparation of various lysogangliosides including lyso-fucosyl GM1 and delayed extraction matrix-assisted laser desorption ionization time-of-flight mass spectrometric analysis. Taketomi T, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):264-9

The membrane topology of GAT-1, a (Na+ + Cl-)-coupled gamma-aminobutyric acid transporter from rat brain. Bennett ER, et al. **J Biol Chem** 1997 Jan 10;272(2):1203-10

Identification of phosphorylation sites on neurofilament proteins by nanoelectrospray mass spectrometry. Betts JC, et al. **J Biol Chem** 1997 May 16;272(20):12922-7

Identification of the major synaptojanin-binding proteins in brain. de Heuvel E, et al. **J Biol Chem** 1997 Mar 28; 272(13):8710-6

Cloning and characterization of a brain-specific cationic amino acid transporter. Hosokawa H, et al. **J Biol Chem** 1997 Mar 28;272(13):8717-22

The mouse t-complex-encoded protein Tctex-1 is a light chain of brain cytoplasmic dynein. King SM, et al. **J Biol Chem** 1996 Dec 13;271(50):32281-7

RED2, a brain-specific member of the RNA-specific adenosine deaminase family. Melcher T, et al. **J Biol Chem** 1996 Dec 13;271(50):31795-8

Molecular identification of a novel candidate sorting receptor purified from human brain by receptor-associated protein affinity chromatography. Petersen CM, et al. **J Biol Chem** 1997 Feb 7;272(6):3599-605

Cloning and functional expression of a brain peptide/histidine transporter. Yamashita T, et al. **J Biol Chem** 1997 Apr 11; 272(15):10205-11

Brain contains HNK-1 immunoreactive O-glycans of the sulfoglucuronyl lactosamine series that terminate in 2-linked or 2,6-linked hexose (mannose). Yuen CT, et al. **J Biol Chem** 1997 Apr 4;272(14):8924-31

The catenin/cadherin adhesion system is localized in synaptic junctions bordering transmitter release zones. Uchida N, et al. **J Cell Biol** 1996 Nov;135(3):767-79

Parametric images of benzodiazepine receptor concentration using a partial-saturation injection. Delforge J, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):343-55

Quantification of neuroreceptors in the living human brain: III. D2-like dopamine receptors: theory, validation, and changes during normal aging. Wong DF, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):316-30

Quantification of neuroreceptors in the living human brain: IV. Effect of aging and elevations of D2-like receptors in schizophrenia and bipolar illness. Wong WF, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):331-42

Distribution of Glut1 glucose transporters in different brain structures compared to glucose utilization and capillary density of adult rat brains. Zeller K, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):204-9

Distribution of alpha 1a-, alpha 1b- and alpha 1d-adrenergic receptor mRNA in the rat brain and spinal cord. Day HE, et al. **J Chem Neuroanat** 1997 Jul;13(2):115-39

Computer-assisted mapping of basic fibroblast growth factor immunoreactive nerve cell populations in the rat brain. Fuxe K, et al. **J Chem Neuroanat** 1996 Jul;11(1):13-35

Sexual dimorphism of galanin-like immunoreactivity in the brain and pituitary of goldfish, Carassius auratus. Rao PD, et al. **J Chem Neuroanat** 1996 Apr;10(2):119-35

The distribution of Met-enkephalin like immunoreactivity in the brain of Apteronotus leptorhynchus, with emphasis on the electrosensory system. Richards S, et al. **J Chem Neuroanat** 1996 Sep;11(3):173-90

Size-exclusion chromatographic reconstitution of the bovine brain benzodiazepine receptor. Effects of lipid environment on the binding characteristics. Viel GT, et al. **J Chromatogr A** 1997 Jul 25;776(1):101-7

Improved method for the measurement of glutamate and aspartate using capillary electrophoresis with laser induced fluorescence detection and its application to brain

microdialysis. Dawson LA, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):455–60

Determination of agmatine in brain and plasma using high-performance liquid chromatography with fluorescence detection. Feng Y, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):277–86

High-performance liquid chromatographic separation of kyotorphin, a basic Tyr-Arg dipeptide, in rat brain tissue and quantification using fluorimetric detection. Kai M, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):205–12

Liquid chromatographic-atmospheric pressure chemical ionization mass spectrometric determination of anandamide and its analogs in rat brain and peripheral tissues. Koga D, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7; 690(1–2):7–13

High-performance liquid chromatography method with light-scattering detection for measurements of lipid class composition: analysis of brains from alcoholics. Olsson NU, et al. **J Chromatogr B Biomed Appl** 1996 Jun 7;681(2):213–8

Simultaneous measurement of serotonin and paroxetine in rat brain microdialysate by a single-pump column-switching technique. Ramaiya A, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):119–29

Analysis of 5-methoxytryptamine at the femtomole level in the rat and quail brain by gas chromatography-electron-capture negative-ion chemical ionization mass spectrometry. Tsang CW, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):185–94

Studies on neurosteroids. V: Separation and characterization of pregnenolone 3-stearate in rat brains using high-performance liquid chromatography. Shimada K, et al. **J Chromatogr Sci** 1997 Feb;35(2):71–4

Comparative localization of fibroblast growth factor receptor-1, -2, and -3 mRNAs in the rat brain: in situ hybridization analysis. Belluardo N, et al. **J Comp Neurol** 1997 Mar 10;379(2):226–46

Selective colocalization of immunoreactivity for intracellular gonadal hormone receptors and tyrosine hydroxylase in the ventral tegmental area, substantia nigra, and retrorubral fields in the rat. Kritzer MF. **J Comp Neurol** 1997 Mar 10;379(2):247–60

Cerebellin and cerebellin mRNA in the human brain, adrenal glands and the tumour tissues of adrenal tumour, ganglioneuroblastoma and neuroblastoma. Satoh F, et al. **J Endocrinol** 1997 Jul;154(1):27–34

The effect of aging on ANP levels in the plasma, heart, and brain of rats. Wu SQ, et al. **J Gerontol A Biol Sci Med Sci** 1997 Sep;52(5):B250–4

Nonspecific esterase activity in astrocytes of the goldfish brain. Pepperell C, et al. **J Histochem Cytochem** 1996 Oct; 44(10):1195–203

Use of PG-21 immunocytochemistry to detect androgen receptors in the songbird brain. Smith GT, et al. **J Histochem Cytochem** 1996 Sep;44(9):1075–80

Phospholipases involved in lysophosphatidylinositol metabolism in rat brain. Kobayashi T, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):33–7

Endogenous cannabinoid ligands--chemical and biological studies. Mechoulam R, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):45–9 (23 ref.)

Observing N-acetyl aspartate via both its N-acetyl and its strongly coupled aspartate groups in in vivo proton magnetic resonance spectroscopy. Wilman AH, et al. **J Magn Reson B** 1996 Dec;113(3):203–13

The neurochemistry of Alzheimer type, vascular type and mixed type dementias compared. Gsell W, et al. **J Neural Transm Suppl** 1996;47:73–101

A generalised increase in protein carbonyls in the brain in Parkinson's but not incidental Lewy body disease. Alam ZI, et al. **J Neurochem** 1997 Sep;69(3):1326–9

Purification and characterization of a human brain galectin-1 ligand. Chadli A, et al. **J Neurochem** 1997 Apr;68(4):1640–7

Regional and ontogenic expression of the NMDA receptor subunit NR2D protein in rat brain using a subunit-specific antibody. Dunah AW, et al. **J Neurochem** 1996 Dec; 67(6):2335–45

Proteins associated with alpha 1-subunit-containing GABAA receptors from bovine brain. Kannenberg K, et al. **J Neurochem** 1997 Apr;68(4):1352–60

Matrix metalloproteinases in dog brains exhibiting Alzheimer-like characteristics. Lim GP, et al. **J Neurochem** 1997 Apr;68(4):1606–11

Biochemical analysis of myelin proteins in a novel neurological mutant: the taiep rat. Möller JR, et al. **J Neurochem** 1997 Aug;69(2):773–9

Differential localization of the gamma 3 and gamma 12 subunits of G proteins in the mammalian brain. Morishita R, et al. **J Neurochem** 1997 Feb;68(2):820–7

Cloning and localization of exon 5-containing isoforms of the NMDAR1 subunit in human and rat brains. Nash NR, et al. **J Neurochem** 1997 Aug;69(2):485–93

The regional distribution of myelin oligodendrocyte glycoprotein (MOG) in the developing rat CNS: an in vivo immunohistochemical study. Coffey JC, et al. **J Neurocytol** 1997 Mar;26(3):149–61

Immunolocalization of type I or type II activin receptors in the rat brain. Funaba M, et al. **J Neuroendocrinol** 1997 Feb:9(2):105–11

Localization of mRNA for leukemia inhibitory factor receptor in the adult rat brain. Yamakuni H, et al. **J Neuroimmunol** 1996 Oct;70(1):45–53

Quantification of trace elements in normal human brain by inductively coupled plasma atomic emission spectrometry. Rajan MT, et al. **J Neurol Sci** 1997 Mar 10;146(2):153–66

Multiple sclerosis: altered expression of 70- and 27-kDa heat shock proteins in lesions and myelin. Aquino DA, et al. **J Neuropathol Exp Neurol** 1997 Jun;56(6):664–72

Distribution of immunoglobulin superfamily members ICAM-1, -2, -3, and the beta 2 integrin LFA-1 in multiple sclerosis lesions. Bö L, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1060–72

D-serine as a neuromodulator: regional and developmental localizations in rat brain glia resemble NMDA receptors. Schell MJ, et al. **J Neurosci** 1997 Mar 1;17(5):1604–15

Amperometric microsensors for monitoring choline in the extracellular fluid of brain. Garguilo MG, et al. **J Neurosci Methods** 1996 Dec;70(1):73–82

In vivo determination of extracellular brain ascorbate. Miele M, et al. **J Neurosci Methods** 1996 Dec;70(1):15–9

A new method of preparing human whole brain sections for in vitro receptor autoradiography. Miller JK, et al. **J Neurosci Methods** 1997 Apr 4;72(2):147–51

Isolation of an enriched fraction of nerve terminals from fish brain using a discontinuous Percoll gradient. Nicholson RA, et al. **J Neurosci Methods** 1997 Feb;71(2):157–62

Ultrastructural localization of 5-hydroxytryptamine1A receptors in the rat brain. Kia HK, et al. **J Neurosci Res** 1996 Dec 15;46(6):697–708

CD9 of mouse brain is implicated in neurite outgrowth and cell migration in vitro and is associated with the alpha 6/beta 1 integrin and the neural adhesion molecule L1. Schmidt C, et al. **J Neurosci Res** 1996 Jan 1;43(1):12–31

Triton-soluble phosphovariants of the heavy neurofilament subunit in developing and mature mouse central nervous system. Shea TB, et al. **J Neurosci Res** 1997 Jun 15; 48(6):515–23

Cerebral oximetry in dead subjects [see comments] Schwarz G, et al. **J Neurosurg Anesthesiol** 1996 Jul;8(3):189–93. Comment in: J Neurosurg Anesthesiol 1997 Jan;9(1):76–7. Comment in: J Neurosurg Anesthesiol 1997 Apr;9(2):194–5.

SPECT imaging of dopamine receptors [editorial; comment] Ichise M, et al. **J Nucl Med** 1996 Oct;37(10):1591–5. Comment on: J Nucl Med 1996 Oct;37(10):1589–91.

Brain dopamine transporter in spontaneously hypertensive rats. Watanabe Y, et al. **J Nucl Med** 1997 Mar;38(3):470–4

Diet-induced changes in liver and bile but not brain fatty acids can be predicted from differences in plasma phospholipid fatty acids in formula- and milk-fed piglets. Rioux FM, et al. **J Nutr** 1997 Feb;127(2):370–7

Biodiscrimination of the eight alpha-tocopherol stereoisomers results in preferential accumulation of the four 2R forms in tissues and plasma of rats. Weiser H, et al. **J Nutr** 1996 Oct;126(10):2539–49

Simple HPLC determination of the concentrations of epiroprim in the serum and brains of mice. Lee HS, et al. **J Pharm Pharmacol** 1996 Oct;48(10):1090–2

A rapid electron-capture gas chromatographic method for the quantification of fluvoxamine in brain tissue. Rotzinger S, et al. **J Pharmacol Toxicol Methods** 1997 Apr; 37(3):129–33

Interaction of phomopsin A with normal and subtilisin-treated bovine brain tubulin. Chaudhuri AR, et al. **J Protein Chem** 1997 Feb;16(2):99–105

The female brain hypoestrogenic continuum from the premenstrual syndrome to menopause. A hypothesis and review of supporting data. Arpels JC. **J Reprod Med** 1996 Sep;41(9):633–9 (87 ref.)

Localization of merosin in the normal human brain: implications for congenital muscular dystrophy with merosin deficiency. Villanova M, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):1–4

Cerebral protection during moderate hypothermic circulatory arrest: histopathology and magnetic resonance spectroscopy of brain energetics and intracellular pH in pigs. Filgueiras CL, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1073–80

Multimodal monitoring in patients with head injury: evaluation of the effects of treatment on cerebral oxygenation. Unterberg AW, et al. **J Trauma** 1997 May; 42(5 Suppl):S32–7

Neurologic disorders due to brain manganese deposition in a jaundiced patient receiving long-term parenteral nutrition. Alves G, et al. **JPEN J Parenter Enteral Nutr** 1997 Jan-Feb;21(1):41–5)

Affinity purification of macrophage migration inhibitory factor/glycosylation inhibiting factor (MIF/GIF) from bovine brain by using a peptide ligand derived from a novel serpin. Nishibori M, et al. **Jpn J Pharmacol** 1996 Jul; 71(3):259–62

Fatty acid composition of late embryonic and early postnatal rat brain. Green P, et al. **Lipids** 1996 Aug;31(8):859–65

The fatty acid composition of human gliomas differs from that found in nonmalignant brain tissue. Martin DD, et al. **Lipids** 1996 Dec;31(12):1283–8

Analysis of hydroxy and keto cholesterols in oxidized brain synaptosomes. Vatassery GT, et al. **Lipids** 1997 Jan; 32(1):101–7

Lactate, N-acetylaspartate, choline and creatine concentrations, and spin-spin relaxation in thalamic and occipito-parietal regions of developing human brain. Cady EB, et al. **Magn Reson Med** 1996 Dec;36(6):878–86

3D localized in vivo 1H spectroscopy of human brain by using a hybrid of 1D-Hadamard with 2D-chemical shift imaging. Gonen O, et al. **Magn Reson Med** 1997 May; 37(5):644–50

Broadband decoupled, 1H-localized 13C MRS of the human brain at 4 Tesla [published erratum appears in Magn Reson Med 1997 Feb;37(2):267] Gruetter R, et al. **Magn Reson Med** 1996 Nov;36(5):659–64

Phosphorus J-coupling constants of ATP in human brain. Jung WI, et al. **Magn Reson Med** 1997 May;37(5):802–4

In vivo detection of GABA in human brain using a localized double-quantum filter technique. Keltner JR, et al. **Magn Reson Med** 1997 Mar;37(3):366–71

The distribution of lithium in rat brain and muscle in vivo by 7Li NMR imaging. Komoroski RA, et al. **Magn Reson Med** 1997 Aug;38(2):275–8

Estimating NAA in cortical gray matter with applications for measuring changes due to aging. Lim KO, et al. **Magn Reson Med** 1997 Mar;37(3):372–7

Transcription of XLPOU3, a brain-specific gene, during Xenopus laevis early embryogenesis. Baltzinger M, et al. **Mech Dev** 1996 Aug;58(1–2):103–14

Brain norepinephrine and metabolites after treadmill training and wheel running in rats. Dunn AL, et al. **Med Sci Sports Exerc** 1996 Feb;28(2):204–9

Brain beta-adrenergic receptor binding in rats with obesity induced by a beef tallow diet. Matsuo T, et al. **Metabolism** 1997 Jan;46(1):18–22

Purification and properties of brain lipoamidase. Oizumi J, et al. **Methods Enzymol** 1997;279:202–10 (23 ref.)

Analysis of nitrite, nitrate, and nitric oxide synthase activity in brain tissue by automated flow injection technique. Yokoi I, et al. **Methods Enzymol** 1996;268:152–9

cGMP-immunocytochemistry. de Vente J, et al. **Methods Mol Biol** 1997;72:125–43

Quantitative in situ hybridization histochemistry. Levy A. **Methods Mol Biol** 1997;72:171–83

In vivo detection of neurotransmitters with fast cyclic voltammetry. Millar J. **Methods Mol Biol** 1997;72:251–66

Microbore liquid chromatography analysis of monoamine transmitters. Sarre S, et al. **Methods Mol Biol** 1997; 72:185–96

Microbore liquid chromatography analysis of amino acid transmitters. Smolders I, et al. **Methods Mol Biol** 1997; 72:197–204

Novel mouse IgG-like immunoreactivity expressed by neurons in the moth Manduca sexta: developmental regulation and colocalization with crustacean cardioactive peptide. Klukas KA, et al. **Microsc Res Tech** 1996 Oct 15;35(3):242–64

Changes in brain putrescine concentration associated with nonconvulsant behavioral patterns induced by systemic N-methyl-D-aspartate injection. Giménez-Llort L, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):289–302

The effect of N-terminal fragments of immunophilin on phospholipid composition of rat brain. Karaguezyan KG, et al. **Mol Membr Biol** 1996 Jan-Mar;13(1):49–51

Cytokines in the Brain: Neuropathological Aspects. Proceedings of a meeting. Saint-Jean-de-Luz, France, April 26–28, 1996. **Mol Psychiatry** 1997 Mar;2(2):83, 96–138

Cytokines in the brain: neuropathological aspects [editorial] Dantzer R. **Mol Psychiatry** 1997 Mar;2(2):83

Normal isoform of amyloid protein (PrP) in brains of spawning salmon. Gibbs CJ Jr, et al. **Mol Psychiatry** 1997 Mar;2(2):146–7

Identification of the prion protein allotypes which accumulate in the brain of sporadic and familial Creutzfeldt-Jakob disease patients. Silvestrini MC, et al. **Nat Med** 1997 May;3(5):521–5

A second endogenous cannabinoid that modulates long-term potentiation. Stella N, et al. **Nature** 1997 Aug 21; 388(6644):773–8

Somatostatin receptors in the rhesus monkey brain: localization and pharmacological characterization. Thoss VS, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May;353(6):648–60

Distribution of 5-HT4 receptor mRNA in the rat brain. Ullmer C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul;354(2):210–2

Co-expression of beta-amyloid precursor protein (betaAPP) and apolipoprotein E in cell culture: analysis of betaAPP processing. Biere AL, et al. **Neurobiol Dis** 1995 Jun; 2(3):177–87

Identification of a unique apolipoprotein E allele in Microcebus murinus; ApoE brain distribution and co-localization with beta-amyloid and tau proteins. Calenda A, et al. **Neurobiol Dis** 1995 Jun;2(3):169–76

Characterization and tissue distribution of opioid-binding cell adhesion molecule (OBCAM) using monoclonal antibodies. Hachisuka A, et al. **Neurochem Int** 1996 Apr;28(4):373–9

Gangliosides of dogfish (Squalus acanthias) brain. Nakamura K, et al. **Neurochem Int** 1997 Jun;30(6):593–604

AMPA receptors modulate dopamine release in the striatum, as measured by brain microdialysis. Sakai K, et al. **Neurochem Int** 1997 Mar;30(3):329–36

Isolation of alpha and beta brain tubulin subunits after alkaline treatment of the protein. Beltramo DM, et al. **Neurochem Res** 1997 Apr;22(4):385–9

Autoradiographic localization of the putative D4 dopamine receptor in rat brain. Defagot MC, et al. **Neurochem Res** 1997 Apr;22(4):401–7

Identification of monoclonal antibody At5 as a new member of HNK-1 antibody family: the reactivity with myelin-associated glycoprotein and with two

brain-specific proteoglycans, phosphacan and neurocan. Preobrazhensky AA, et al. **Neurochem Res** 1997 Feb; 22(2):133-40

Brain tissue pO2-monitoring: catheterstability and complications. Dings J, et al. **Neurol Res** 1997 Jun; 19(3):241-5

Brain tissue pO2-monitoring in comatose patients: implications for therapy. Kiening KL, et al. **Neurol Res** 1997 Jun;19(3):233-40

DOC2 proteins in rat brain: complementary distribution and proposed function as vesicular adapter proteins in early stages of secretion. Verhage M, et al. **Neuron** 1997 Mar; 18(3):453-61

bcl-2 protein is increased in the brain from parkinsonian patients. Mogi M, et al. **Neurosci Lett** 1996 Sep 6; 215(2):137-9

Immunoreactive Phe-Met-Arg-Phe-NH2-like peptides in the brain of the antarctic icefish, Chionodraco hamatus. Pestarino M, et al. **Neurosci Lett** 1996 Jul 26;213(1):21-4

Immunohistochemical study of advanced glycation end products in aging and Alzheimer's disease brain. Takeda A, et al. **Neurosci Lett** 1996 Dec 27;221(1):17-20

Colocalization on the same synaptic vesicles of syntaxin and SNAP-25 with synaptic vesicle proteins: a re-evaluation of functional models required? Kretzschmar S, et al. **Neurosci Res** 1996 Oct;26(2):141-8

Persistent c-fos expression in the brains of mice with chronic social stress. Matsuda S, et al. **Neurosci Res** 1996 Oct; 26(2):157-70

Localization of a G-protein-coupled inwardly rectifying K+ channel, CIR, in the rat brain. Iizuka M, et al. **Neuroscience** 1997 Mar;77(1):1-13

Distribution of [3H]diadenosine tetraphosphate binding sites in rat brain. Rodríguez-Pascual F, et al. **Neuroscience** 1997 Mar;77(1):247-55

Immunocytochemical localization of seleno-glutathione peroxidase in the adult mouse brain. Trépanier G, et al. **Neuroscience** 1996 Nov;75(1):231-43

Distribution of messenger RNAs for the orphan nuclear receptors Nurr1 and Nur77 (NGFI-B) in adult rat brain using in situ hybridization. Xiao Q, et al. **Neuroscience** 1996 Nov;75(1):221-30

Interaction of neuromelanin and iron in substantia nigra and other areas of human brain. Zecca L, et al. **Neuroscience** 1996 Jul;73(2):407-15

A quantitative and specific method for measuring transcript levels of highly homologous genes. Lombardo AJ, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4812-6

A proenkephalin A-derived peptide analogous to bovine adrenal peptide E from frog brain: purification, synthesis, and behavioral effects. Conlon JM, et al. **Peptides** 1996; 17(8):1291-6

Melanotropic peptides in the mammalian brain: the melanin-concentrating hormone. Knigge KM, et al. **Peptides** 1996;17(6):1063-73 (147 ref.)

Isolation and structural characterization of pituitary adenylate cyclase activating polypeptide (PACAP)-like peptide from the brain of a teleost, stargazer, Uranoscopus japonicus. Matsuda K, et al. **Peptides** 1997;18(5):723-7

Biochemical changes in the frontal lobe of HIV-infected individuals detected by magnetic resonance spectroscopy. López-Villegas D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9854-9

D-aspartate localizations imply neuronal and neuroendocrine roles. Schell MJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2013-8

Transforming growth factor-alpha (TGF-alpha) and epidermal growth factor-receptor (EGF-R) immunoreactivity in normal and pathologic brain. Ferrer I, et al. **Prog Neurobiol** 1996 Jun;49(2):99-123 (110 ref.)

One-step HPLC purification procedure for porcine brain 90-kDa heat shock protein. Chu LF, et al. **Protein Expr Purif** 1997 Jul;10(2):180-4

Crystallization and preliminary cryogenic X-ray diffraction analyses of protein L-isoaspartyl O-methyltransferase from human fetal brain. Smith CD, et al. **Proteins** 1997 Jul; 28(3):457-60

Analysis of the DRPLA triplet repeat in brain tissue and leukocytes from schizophrenics. Brando LJ, et al. **Psychiatr Genet** 1996 Spring;6(1):1-5

Autoradiographic localisation of D3-dopamine receptors in the human brain using the selective D3-dopamine receptor agonist (+)-[3H]PD 128907. Hall H, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):240-7

Phenylketonuria: findings at MR imaging and localized in vivo H-1 MR spectroscopy of the brain in patients with early treatment. Pietz J, et al. **Radiology** 1996 Nov; 201(2):413-20

Brain gonadotropin releasing hormone receptors: localization and regulation. Jennes L, et al. **Recent Prog Horm Res** 1997;52:475-90; discussion 490-1 (73 ref.)

Colocalization of mu opioid receptors with GIRK1 potassium channels in the rat brain: an immunocytochemical study. Bausch SB, et al. **Receptors Channels** 1995;3(3):221-41

Primary structure of three forms of gonadotropin-releasing hormone (GnRH) from the pacu brain. Powell JF, et al. **Regul Pept** 1997 Feb 26;68(3):189-95

Aggregation of huntingtin in neuronal intranuclear inclusions and dystrophic neurites in brain. DiFiglia M, et al. **Science** 1997 Sep 26;277(5334):1990-3

Ironing out the wrinkles in the prion strain problem [news; comment] Grady D. **Science** 1996 Dec 20;274(5295):2010 . Comment on: Science 1996 Dec 20;274(5295):2079-82.

Transmission of the BSE agent to mice in the absence of detectable abnormal prion protein. Lasmézas CI, et al. **Science** 1997 Jan 17;275(5298):402-5

Protein test favors BSE-CJD link [news] O'Brien C. **Science** 1996 Nov 1;274(5288):721

Evidence for the conformation of the pathologic isoform of the prion protein enciphering and propagating prion diversity [see comments] Telling GC, et al. **Science** 1996 Dec 20;274(5295):2079-82. Comment in: Science 1996 Dec 20;274(5295):2010.

Formation and persistence of N7- and O6-methyl-guanine in DNA of chick embryo brain cells in ovo following administration of N-nitroso-N-methylurea. Schleifer S, et al. **Zentralbl Veterinarmed A** 1996 Dec;43(10):589-98

[Study by NMR of the modifications of brain lipid composition related to the tumor processes] Debouzy JC, et al. **Ann Pharm Fr** 1997;55(1):35-41 (Eng. Abstr.) **(Fre)**

[Cloning of testican/SPOCK in man and mouse. Neuromuscular expression perspectives in pathology] Charbonnier F, et al. **C R Seances Soc Biol Fil** 1997; 191(1):127-33 (20 ref.) (Eng. Abstr.) **(Fre)**

[Thrombin deposition in brains of patients with Alzheimer's disease--activation of the coagulation system in the central nervous system] Akiyama H. **Rinsho Byori** 1997 Feb;Suppl 104:117-23 (31 ref.) **(Jpn)**

[Redox properties of peptides potentially regulating animal hibernation] Marinov BS, et al. **Biofizika** 1997 Jan-Feb; 42(1):147-53 (Eng. Abstr.) **(Rus)**

[Inhibition of lipid peroxidation in rat brain synaptosomes by peptide and protein fraction isolated from human fetal brain] Dupin AM, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):233-5 **(Rus)**

[Morphochemical changes in brain structures during hypofunction of the dopaminergic system and their correction with tuftsin] Gershtein LM, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):381-3 **(Rus)**

[Protective and inhibitory effect of brain extracts on bacterial growth] Nikolaev IuA, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):411-3 **(Rus)**

[Changes in the level of met-enkephalin in various brain structures during formation of immune response] Podgornaia EK, et al. **Biull Eksp Biol Med** 1997 Feb; 123(2):170-2 **(Rus)**

[Identification in the rat brain of cyclo-prolylglycine, a novel endogenous peptide with nootropic activity] Gudasheva TA, et al. **Dokl Akad Nauk** 1996 Oct;350(6):834-6 **(Rus)**

[Changes in glycolipid level in the brain of rats with different resistance to hypoxia during acclimation to cold] Kozulina LE, et al. **Vopr Med Khim** 1996 Apr-Jun;42(2):141-3 (Eng. Abstr.) **(Rus)**

[Rapid isolation of 4-hydroxyphenylethanol from the bovine brain using Water Sep-Pak Plus cartridges with lipophilic sorbent (Florisil)] Panova NG, et al. **Vopr Med Khim** 1996 Apr-Jun;42(2):168-71 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Alpha-2 adrenoceptor agonists decrease cyclic guanosine 3',5'-monophosphate in the mouse brain [see comments] Vulliemoz Y, et al. **Anesthesiology** 1996 Sep;85(3):544-50 . Comment in: Anesthesiology 1996 Sep;85(3):457-9.

Evaluation of a brain-targeting zidovudine chemical delivery system in dogs. Brewster ME, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):122-8

Effects of paraquat on mitochondrial electron transport system and catecholamine contents in rat brain. Tawara T, et al. **Arch Toxicol** 1996;70(9):585-9

Influence of tramadol on neurotransmitter systems of the rat brain. Frink MC, et al. **Arzneimittelforschung** 1996 Nov; 46(11):1029-36

Electrophysiological, biochemical, neurohormonal and behavioural studies with WAY-100635, a potent, selective and silent 5-HT1A receptor antagonist. Fletcher A, et al. **Behav Brain Res** 1996;73(1-2):337-53

Interaction of neuromodulatory systems in modulating memory storage. McGaugh JL, et al. **Behav Brain Res** 1997 Feb;83(1-2):31-8 (79 ref.)

Ethological and 6-[18F]fluoro-L-DOPA-PET profiles of long-term vulnerability to chronic amphetamine. Melega WP, et al. **Behav Brain Res** 1997 Mar;84(1-2):259-68

Behavioral and neurochemical effects of a chronic choline-deficient diet in the rat. Molinengo L, et al. **Behav Brain Res** 1997 Mar;84(1-2):145-50

Autoradiographic analysis of 5-HT receptor subtypes labeled by [3H]5-CT ([3H]5-carboxamidotryptamine). Palacios JM, et al. **Behav Brain Res** 1996;73(1-2):239-43

The behavioral and neurochemical effects of phenyclidine in humans and animals: some implications for modeling psychosis. Steinpresis RE. **Behav Brain Res** 1996 Jan; 74(1-2):45-55 (195 ref.)

Positron emission tomography of 5-HT reuptake sites in the human brain with C-11 McN5652 extraction of characteristic images by artificial neural network analysis. Szabo Z, et al. **Behav Brain Res** 1996;73(1-2):221-4

Neonatal hippocampal lesions induced hyperresponsiveness to amphetamine: behavioral and in vivo microdialysis studies. Wan RQ, et al. **Behav Brain Res** 1996 Aug; 78(2):211-23

Stimulation of immediate early gene expression by desipramine in rat brain. Dahmen N, et al. **Biol Psychiatry** 1997 Sep 1;42(5):317-23

Phencyclidine alters regional concentrations of neuropeptide Y and peptide YY in rat brain. Sakai K, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1246-54

Antipsychotic drugs block IP3-dependent Ca(2+)-release from rat brain microsomes. Sczekan SR, et al. **Biol Psychiatry** 1996 Sep 15;40(6):497-502

In vivo evidence for free radical involvement in the degeneration of rat brain 5-HT following administration of MDMA ('ecstasy') and p-chloroamphetamine but not the degeneration following fenfluramine. Colado MI, et al. **Br J Pharmacol** 1997 Jul;121(5):889-900

Neurochemical actions of the desglycinyl metabolite of remacemide hydrochloride (ARL 12495AA) in mouse brain. Leach JP, et al. **Br J Pharmacol** 1997 Jul;121(5):923-6

The P2Y purinoceptor in rat brain microvascular endothelial cells couple to inhibition of adenylate cyclase. Webb TE, et al. **Br J Pharmacol** 1996 Dec;119(7):1385-92

Effect of an NMDA receptor antagonist and a ganglioside GM1 derivative upon ethanol-induced modification of parameters of oxidative stress in several brain regions. Bondy SC, et al. **Brain Res** 1996 Apr 15;716(1-2):165-70

Induction of Fos-like immunoreactivity by opioids in guinea-pig brain. Bot G, et al. **Brain Res** 1996 Aug 26; 731(1-2):45-56

Distribution of c-Fos in guinea-pig brain following morphine withdrawal. Chahl LA, et al. **Brain Res** 1996 Apr 22; 717(1-2):127-34

The neurochemical and behavioral effects of beta-amyloid peptide(25-35). Chen SY, et al. **Brain Res** 1996 May 13; 720(1-2):54-60

Guanine nucleotide regulation and cation sensitivity of agonist binding to rat brain oxytocin receptors. Flanagan-Cato LM, et al. **Brain Res** 1995 Dec 1; 701(1-2):75-80

Lanthanum and zinc sensitivity of GABAA-activated currents in adult medial septum/diagonal band neurons from ethanol dependent rats. Frye GD, et al. **Brain Res** 1996 May 13;720(1-2):101-10

A1 and A2A adenosine receptors and A1 mRNA in mouse brain: effect of long-term caffeine treatment. Johansson B, et al. **Brain Res** 1997 Jul 11;762(1-2):153-64

Glial cell line-derived neurotrophic factor: distribution and pharmacology in the rat following a bolus intraventricular injection. Lapchak PA, et al. **Brain Res** 1997 Jan 30; 747(1):92-102

Distribution of Fos-immunoreactivity in rat brain following a dipsogenic dose of captopril and effects of angiotensin receptor blockade. McKinley MJ, et al. **Brain Res** 1997 Jan 30;747(1):43-51

Thyroid hormone-induced GLUT-1 expression in rat cerebral tissue: effect of age. Mooradian AD, et al. **Brain Res** 1997 Jan 30;747(1):144-6

Differential induction of Fos in the female rat brain following different amounts of vaginocervical stimulation: modulation by steroid hormones. Pfaus JG, et al. **Brain Res** 1996 Nov 25;741(1-2):314-30

Importance of pituitary and brain receptors for corticotrophin-releasing factor in modulating alcohol-induced ACTH secretion in the rat. Rivier C, et al. **Brain Res** 1996 May 20;721(1-2):83-90

Evidence for generation of oxidative stress in brain by MPTP: in vitro and in vivo studies in mice. Sriram K, et al. **Brain Res** 1997 Feb 21;749(1):44-52

Effects of multiple intracerebroventricular injections of [D-Pen2,D-Pen5]enkephalin and [D-Ala2,Glu4]deltorphin II on tolerance to their analgesic action and on brain delta-opioid receptors. Zhao GM, et al. **Brain Res** 1997 Jan 16;745(1-2):243-7

Cocaethylene exposure during the brain growth spurt period: brain growth restrictions and neurochemistry studies. Chen WJ, et al. **Brain Res Dev Brain Res** 1997 Jun 18; 100(2):220-9

Neurobiochemical changes from Taxol/Neupogen chemotherapy for metastatic breast carcinoma corresponds with suicidal depression. Cousins JP, et al. **Cancer Lett** 1996 Dec 20;110(1-2):163-7

The expression of neural cell sialoglycoproteins following glucocorticoid regulation of sialyltransferase activity in vivo. Coughlan CM, et al. **Cell Mol Neurobiol** 1996 Jun; 16(3):433-8

Estrogen control of central neurotransmission: effect on mood, mental state, and memory. Fink G, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):325-44 (87 ref.)

Effects of intracerebroventricular administration of 5-(glutathion-S-yl)-alpha-methyldopamine on brain dopamine, serotonin, and norepinephrine concentrations in male Sprague-Dawley rats. Miller RT, et al. **Chem Res Toxicol** 1996 Mar;9(2):457-65

Ethanol alters brain phospholipid levels which correlate with altered brain morphology. Miller RR Jr, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):407-17

Comparative effects of age and chronic low-level lead exposure on calcium mobilization from intracellular calcium stores in brain samples obtained from the neonatal and the adult rats. Singh AK, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):89-98

Effects of neocortical implants of cobalt and other seizure-inducing metals on brain C-14 2-deoxyglucose uptake. Cooper RM, et al. **Epilepsy Res** 1997 Apr;

27(1):13–28
Effects of zonisamide on dopaminergic system. Okada M, et al. **Epilepsy Res** 1995 Nov;22(3):193–205
Systemic administration of lithium chloride and tacrine but not kainic acid augments citrulline content of rat brain. Bagetta G, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):341–4
Alterations in brain levels of atrial and C-type natriuretic peptides after chronic moderate ethanol consumption in spontaneously hypertensive rats. Guillaume P, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):215–24
Brain sigma receptors labelled by [3H]nemonapride. Helmeste D, et al. **Eur J Pharmacol** 1996 Apr 22; 301(1–3):R1–3
Intranigral or intrastriatal injections of GDNF: effects on monoamine levels and behavior in rats. Martin D, et al. **Eur J Pharmacol** 1996 Dec 19;317(2–3):247–56
Effects of galanin on 8-OH-DPAT induced decrease in body temperature and brain 5-hydroxytryptamine metabolism in the mouse. Patel S, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2–3):197–204
Altered protein phosphorylation in the rat brain following chronic lithium and carbamazepine treatments. Jensen JB, et al. **Eur Neuropsychopharmacol** 1997 Aug;7(3):173–9
PET neuroimaging with [11C]venlafaxine: serotonin uptake inhibition, biodistribution and binding in living pig brain. Smith DF, et al. **Eur Neuropsychopharmacol** 1997 Aug; 7(3):195–200
Effects of BDNF infusion on the regulation of TrkB protein and message in adult rat brain. Frank L, et al. **Exp Neurol** 1997 May;145(1):62–70
Lisuride and bromocryptine in L-Dopa stable-responder parkinsonian patients: a comparative, double-blind evaluation of cardiopressor and neurochemical effects. Micieli G, et al. **Funct Neurol** 1996 Nov-Dec;11(6):317–25
Effects of oxotremorine and pilocarpine on striatal acetylcholine release as studied by brain dialysis in anesthetized rats. Murakami Y, et al. **Gen Pharmacol** 1996 Jul;27(5):833–6
Organochlorine compounds in human brain. Corrigan FM, et al. **Hum Exp Toxicol** 1996 Mar;15(3):262–4
Central and peripheral neurochemical alterations and immune effects of prenatal ethanol exposure in rats. Clausing P, et al. **Int J Dev Neurosci** 1996 Jul;14(4):461–9
Ontogenic profile of brain lipids following perinatal exposure to cadmium. Gupta A, et al. **J Appl Toxicol** 1996 May-Jun; 16(3):227–33
Changes in brain and plasma amino acids of mice intoxicated with methyl isocyanate. Gupta M, et al. **J Appl Toxicol** 1996 Nov-Dec;16(6):469–73
Chronic nicotine treatment enhances focal ischemic brain injury and depletes free pool of brain microvascular tissue plasminogen activator in rats. Wang L, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):136–46
Distribution and pharmacological characterization of somatostatin receptor binding sites in the sheep brain. Fodor M, et al. **J Chem Neuroanat** 1997 Mar;12(3):175–82
Ciliary neurotrophic factor stimulates the expression of glial fibrillary acidic protein by brain astrocytes in vivo. Clatterbuck RE, et al. **J Comp Neurol** 1996 Jun 10; 369(4):543–51
Effects of vitamin E on the blastogenic response of splenocytes and lipofuscin contents in the hearts and brains of aged mice. Ma XY, et al. **J Environ Pathol Toxicol Oncol** 1996;15(1):51–3
Antagonism of cocaine's stimulant effects on local cerebral glucose utilization by the preferential autoreceptor antagonist (+)-AJ 76. Casey BL, et al. **J Neural Transm** 1996;103(3):277–85
Effects of chronic treatment with a cyclic AMP-selective phosphodiesterase inhibitor, rolipram, on excitatory amino acid neurotransmission systems in young and aged rat brains. Kato H, et al. **J Neural Transm** 1997;104(2–3):269–80
Ex vivo inhibitory effect of the 5-HT uptake blocker citalopram on 5-HT synthesis. Moret C, et al. **J Neural Transm** 1997;104(2–3):147–60
Effect of adrenalectomy and corticosterone substitution on glucose and glycogen metabolism in rat brain. Plaschke K, et al. **J Neural Transm** 1996;103(1–2):89–100
Thioctic acid does not restore glutathione levels or protect against the potentiation of 6-hydroxydopamine toxicity induced by glutathione depletion in rat brain. Seaton TA, et al. **J Neural Transm** 1996;103(3):315–29
Concurrent locomotor stimulation and decrease in dopamine release in rats and mice after treatment with the competitive NMDA receptor antagonists D-CPPene and CGS 19755. Waters N, et al. **J Neural Transm** 1996;103(1–2):117–29
Effects of nitric oxide synthesis inhibition on methamphetamine-induced dopaminergic and serotonergic neurotoxicity in the rat brain. Abekawa T, et al. **J Neural Transm Gen Sect** 1996;103(6):671–80
Regional differences of the effect of sigma receptor ligands on the acetylcholine release in the rat brain. Kobayashi T, et al. **J Neural Transm Gen Sect** 1996;103(6):661–9
Effects of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin on the dopaminergic and cholinergic receptors as evaluated by positron emission tomography in the Rhesus monkey. Tani Y, et al. **J Neural Transm Gen Sect** 1995;102(3):189–208
Characterization of calpain-mediated proteolysis of GluR1 subunits of alpha-amino-3-hydroxy-5-methylisoxazole-4-propionate receptors in rat brain. Bi X, et al. **J Neurochem** 1997 Apr; 68(4):1484–94
Pharmacology and regional distribution of the binding of 6-[3H]nitro-7-sulphamoylbenzo[f]-quinoxaline-2,3-dione to rat brain. Dev KK, et al. **J Neurochem** 1996 Dec; 67(6):2609–12
Influence of fluoxetine on regional serotonin synthesis in the rat brain. Mück-Seler D, et al. **J Neurochem** 1996 Dec; 67(6):2434–42
Glial fibrillary acidic protein expression in rat brain and in radial glia culture is delayed by prenatal ethanol exposure. Vallés S, et al. **J Neurochem** 1996 Dec;67(6):2425–33
Morphine-induced locomotor and neurochemical stimulation is enhanced in transgenic mice with impaired glucocorticoid receptor function. Spanagel B, et al. **J Neuroendocrinol** 1996 Feb;8(2):93–7
Mitochondrial DNA levels in the brain of HIV-positive patients after zidovudine therapy. Davison FD, et al. **J Neurol** 1996 Sep;243(9):648–51
Dietary beta-alanine results in taurine depletion and cerebellar damage in adult cats. Lu P, et al. **J Neurosci Res** 1996 Jan 1;43(1):112–9
Effects of phencyclidine on immediate early gene expression in the brain. Näkki R, et al. **J Neurosci Res** 1996 Jul 1; 45(1):13–27
Lactate and excitatory amino acids measured by microdialysis are decreased by pentobarbital coma in head-injured patients. Goodman JC, et al. **J Neurotrauma** 1996 Oct; 13(10):549–56
The effects of aminorex and related compounds on brain monoamines and metabolites in CBA mice. Zheng Y, et al. **J Pharm Pharmacol** 1997 Jan;49(1):89–96
Positron emission tomographic analysis of central 5-hydroxytryptamine2 receptor occupancy in healthy volunteers treated with the novel antipsychotic agent, ziprasidone. Fischman AJ, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):939–47
Effects of hypernatraemia in the central nervous system and its therapy in rats and rabbits. Ayus JC, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):243–55
Calcium-induced inactivation of NMDA receptor-channels evolves independently of run-down in cultured rat brain neurones. Medina I, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):411–27
Sleeping time after phenobarbital treatment and the brain levels of gamma-aminobutyric acid and phenobarbital at the regaining of righting response point in ethionine-induced liver-disordered mice. Noguchi M, et al. **J Toxicol Sci** 1996 May;21(2):113–23
Brain serotonin neurotoxicity and primary pulmonary hypertension from fenfluramine and dexfenfluramine. A systematic review of the evidence. McCann UD, et al. **JAMA** 1997 Aug 27;278(8):666–72 (107 ref.)
Interaction of orally administered 5-[3-[((2S)-1,4-benzodioxan-2-ylmethyl)amino]propoxy]-1,3-benzodioxole (MKC-242) with 5-HT1A receptors in rat brain. Asano S, et al. **Jpn J Pharmacol** 1997 May; 74(1):69–75
Acute effects of L-tryptophan on brain extracellular 5-HT and 5-HIAA levels in chronic experimental portal-systemic encephalopathy. Bergqvist PB, et al. **Metab Brain Dis** 1996 Sep;11(3):269–78
Genetic alteration of alpha 2C-adrenoceptor expression in mice: influence on locomotor, hypothermic, and neurochemical effects of dexmedetomidine, a subtype-nonselective alpha 2-adrenoceptor agonist. Sallinen J, et al. **Mol Pharmacol** 1997 Jan;51(1):36–46
In vitro and in vivo effects of the anorectic agent dexfenfluramine on the central serotoninergic neuronal systems of non-human primates. A comparison with the rat. Mennini T, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):641–7
Particular nuclear transcription factors responsive to systemic administration of kainic acid in murine brain. Azuma Y, et al. **Neurochem Int** 1996 Sep;29(3):289–99
Long-term neuroleptic treatments counteract dopamine D2 agonist inhibition of adenylate cyclase but do not affect pertussis toxin ADP-ribosylation in the rat brain. Okada F, et al. **Neurochem Int** 1996 Feb;28(2):161–8
Effects of repeated cocaine administration on the thyrotropin-releasing hormone level and receptors in the rat brain. Jaworska-Feil L, et al. **Neuropeptides** 1997 Jun; 31(3):253–8
Action of harman (1-methyl-beta-carboline) on the brain: body temperature and in vivo efflux of 5-HT from hippocampus of the rat. Adell A, et al. **Neuropharmacology** 1996;35(8):1101–7
Isoniazid-induced inhibition of GABAergic transmission enhances neurosteroid content in the rat brain. Barbaccia ML, et al. **Neuropharmacology** 1996;35(9–10):1299–305
Characterisation of the interaction between guanyl nucleotides and AMPA receptors in rat brain. Dev KK, et al. **Neuropharmacology** 1996;35(11):1583–93
A behavioural and neurochemical study in rats of the pharmacology of loreclezole, a novel allosteric modulator of the GABAA receptor. Green AR, et al. **Neuropharmacology** 1996;35(9–10):1243–50
Autoreceptor antagonists enhance the effect of the reuptake inhibitor citalopram on extracellular 5-HT: this effect persists after repeated citalopram treatment. Gundlah C, et al. **Neuropharmacology** 1997 Apr-May;36(4–5):475–82
Effect of 5-HT1A receptor antagonists on citalopram-induced increase in extracellular serotonin in the frontal cortex, striatum and dorsal hippocampus. Invernizzi R, et al. **Neuropharmacology** 1997 Apr-May; 36(4–5):467–73
The alpha 4 subunit of the GABAA receptors from rat brain and retina. Khan ZU, et al. **Neuropharmacology** 1996; 35(9–10):1315–22
Inhibition of GABA-gated chloride channels in brain by the arachidonic acid metabolite, thromboxane A2. Schwartz-Bloom RD, et al. **Neuropharmacology** 1996; 35(9–10):1347–53
Effects of lithium and carbamazepine on thyroid hormone metabolism in rat brain. Baumgartner A, et al. **Neuropsychopharmacology** 1997 Jan;16(1):25–41
Basal and stimulated C-fos mRNA expression in the rat brain: effect of chronic dietary lithium. Miller JC, et al. **Neuropsychopharmacology** 1997 Jun;16(6):408–18
Gender differences in brain metabolic and plasma catecholamine responses to alpha 2-adrenoceptor blockade. Schmidt ME, et al. **Neuropsychopharmacology** 1997 Apr; 16(4):298–310
Acute or chronic lithium does not affect agonist-stimulated inositol trisphosphate formation in rat brain in vivo. Gur E, et al. **Neuroreport** 1996 Jan 31;7(2):393–6
Glucocorticoids modulate the cellular disposition of lipocortin 1 in the rat brain in vivo and in vitro. Philip JG, et al. **Neuroreport** 1997 May 27;8(8):1871–6
Decreased density of I2-imidazoline receptors in the postmortem brain of heroin addicts. Sastre M, et al. **Neuroreport** 1996 Jan 31;7(2):509–12
Modulation of phosphoinositide turnover by chronic nicergoline in rat brain. Carfagna N, et al. **Neurosci Lett** 1996 May 17;209(3):189–92
Lithium decreases turnover of arachidonate in several brain phospholipids [published erratum appears in Neurosci Lett 1997 Jan 31;222(2):141] Chang MC, et al. **Neurosci Lett** 1996 Dec 20;220(3):171–4
No evidence for specific opioid effects on batrachotoxin-modified sodium channels from human brain synaptosomes. Frenkel C, et al. **Neurosci Lett** 1997 Jun 20;229(1):41–4
Reduction of excitotoxicity-induced brain damage by the competitive NMDA antagonist CGP 40116: a longitudinal study using diffusion-weighted imaging. Laurent D, et al. **Neurosci Lett** 1996 Aug 9;213(3):209–12
Chronic antipsychotic treatment alters glycine-stimulated NMDA receptor binding in rat brain. McCoy L, et al. **Neurosci Lett** 1996 Aug 2;213(2):137–41
Rapid chelation of calcium entering isolated rat brain nerve terminals during stimulation inhibits neurotransmitter release. Nichols RA, et al. **Neurosci Lett** 1996 Jun 21; 211(2):135–7
Intracerebroventricular administration of missense oligodeoxynucleotide induces interleukin-6 mRNA expression in brain and spleen of rats. Pezeshki G, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):97–100
Imipramine-induced increase in 5-HT2C receptor mRNA level in the rat brain. Tohda M, et al. **Neurosci Res** 1996 Jan;24(2):189–93
Differential response of calmodulin genes in the mouse brain after systemic kainate administration. Solà C, et al. **Neuroscience** 1997 May;78(1):155–64
Fumonisin B1 in developing rats alters brain sphinganine levels and myelination. Kwon OS, et al. **Neurotoxicology** 1997;18(2):571–79
Mercury vapor inhalation inhibits binding of GTP to tubulin in rat brain: similarity to a molecular lesion in Alzheimer diseased brain. Pendergrass JC, et al. **Neurotoxicology** 1997; 18(2):315–24
Long-term effects of developmental exposure to 2,2',3,5',6-pentachlorobiphenyl (PCB 95) on locomotor activity, spatial learning and memory and brain ryanodine binding. Schantz SL, et al. **Neurotoxicology** 1997; 18(2):457–67
Electrophysiological studies on the actions of hallucinogenic drugs at 5-HT2 receptors in rat brain. Aghajanian GK. **NIDA Res Monogr** 1994;146:183–202 (49 ref.)
Autoradiographic approaches to studying hallucinogens or other drugs. Appel NM. **NIDA Res Monogr** 1994; 146:214–40 (98 ref.)
PET studies of cerebral glucose metabolism: acute effects of cocaine and long-term deficits in brains of drug abusers. London ED, et al. **NIDA Res Monogr** 1996;163:146–58 (52 ref.)
Neurochemical evidence that hallucinogenic drugs are 5-HT1c receptor agonists: what next? Sanders-Bush E. **NIDA Res Monogr** 1994;146:203–13 (20 ref.)
Neurochemical mechanisms underlying responses to psychostimulants. Volkow ND, et al. **NIDA Res Monogr** 1996;159:322–48
Long-term exposure to ozone alters peripheral and central catecholamine activity in rats. Cottet-Emard JM, et al. **Pflugers Arch** 1997 Apr;433(6):744–9
Neurotensin levels and receptors in HAS and LAS rat brains: effects of ethanol. Erwin VG, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):525–32
Prenatal binge-like alcohol exposure alters neurochemical profiles in fetal rat brain. Maier SE, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):521–9
Effects of moclobemide on forced-swimming stress and brain monoamine levels in mice. Miura H, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):469–75
Perinatal exposure to morphine disrupts brain

norepinephrine, ovarian cyclicity, and sexual receptivity in rats. Siddiqui A, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):243–8

Naloxone–precipitated changes in biogenic amines and their metabolites in various brain regions of butorphanol–dependent rats. Tokuyama S, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):461–8

The antiopioid peptide, neuropeptide FF, enhances the effects of acute morphine on the cerebral monoamines in rats. Attila M, et al. **Pharmacol Res** 1995 Nov;32(5):293–8

Lipid peroxide, phospholipids, glutathione levels and superoxide dismutase activity in rat brain after ischaemia: effect of ginkgo biloba extract. Seif–El–Nasr M, et al. **Pharmacol Res** 1995 Nov;32(5):273–8

Enhancement of brain noradrenaline and dopamine turnover by thyrotropin–releasing hormone and its analogue NS–3 in mice and rats. Itoh Y, et al. **Pharmacol Toxicol** 1996 Jun;78(6):421–8

Four weeks' inhalation exposure of rats to p–cymene affects regional and synaptosomal neurochemistry. Lam HR, et al. **Pharmacol Toxicol** 1996 Nov;79(5):225–30

Effect of arginine administration on plasma and brain levels of arginine and various related amino compounds in the rat. Buchmann I, et al. **Pharmacology** 1996 Sep;53(3):133–42

Estradiol alters ethanol–induced effects on beta–endorphin and met–enkephalin levels in specific brain regions of ovariectomized rats. Carter A, et al. **Pharmacology** 1996 Sep;53(3):143–50

Differential effect of central versus parenteral administration of morphine sulfate on regional concentrations of reduced glutathione in rat brain. Goudas LC, et al. **Pharmacology** 1997 Feb;54(2):92–7

Effects of a new oxazolidinone derivative AS–8 on serotonin metabolism in the brains of mouse, rat and chick. Chilmonczyk Z. **Pol J Pharmacol** 1995 Sep–Oct; 47(5):445–9

A schematic representation of the psychopharmacological profile of antidepressants. Bourin M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Nov; 20(8):1389–402

The enhancement and the inhibition of noradrenaline–induced cyclic AMP accumulation in rat brain by stimulation of metabotropic glutamate receptors. Pilc A, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 May; 20(4):673–90

Effects of footshock stress on regional brain monoamine metabolism and the acquisition of conditioned freezing in rats previously exposed to repeated methamphetamine. Tsuchiya K, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1239–50

Effect of chronic ipsapirone treatment on the density of 5–HT1A receptors and 5–HT1A receptor mRNA in discrete regions of the rat brain. Shiro Y, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):141–6

Differential effect of CDP–choline on brain cytosolic choline levels in younger and older subjects as measured by proton magnetic resonance spectroscopy. Babb SM, et al. **Psychopharmacology (Berl)** 1996 Sep;127(2):88–94

The effects of paroxetine given repeatedly on the 5–HT receptor subpopulations in the rat brain. Maj J, et al. **Psychopharmacology (Berl)** 1996 Sep;127(1):73–82

The antidepressant drug phenelzine produces antianxiety effects in the plus–maze and increases in rat brain GABA. Paslawski T, et al. **Psychopharmacology (Berl)** 1996 Sep; 127(1):19–24

Behavioral stimulation without alteration of beta and 5–HT receptors and adenylate cyclase activity in rat brain after chronic sertraline administration. Tadokoro C, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):124–30

Effects of nimodipine and nifedipine upon behavior and regional brain monoamines in the rat. Viveros MP, et al. **Psychopharmacology (Berl)** 1996 Sep;127(2):123–32

Thyrotropin releasing hormone prevents abnormalities of cortical acetylcholine and monoamines in mice following head injury. Tanaka K, et al. **Regul Pept** 1997 Jun 18; 70(2–3):173–8

Enhancement of basal and pentylenetetrazol (PTZ)–stimulated dopamine release in the brain of freely moving rats by PTZ–induced kindling. Dazzi L, et al. **Synapse** 1997 Aug;26(4):351–8

The depletion of brain serotonin levels by para–chlorophenylalanine administration significantly alters the activity of midbrain dopamine cells in rats: an extracellular single cell recording study. Minabe Y, et al. **Synapse** 1996 Jan;22(1):46–53

Quantification of dopamine transporter density in monkeys by dynamic PET imaging of multiple injections of 11C–CFT. Morris ED, et al. **Synapse** 1996 Nov; 24(3):262–72

Inhibitory effect of new quinolones on GABA(A) receptor–mediated response and its potentiation with felbinac in Xenopus oocytes injected with mouse–brain mRNA: correlation with convulsive potency in vivo. Kawakami J, et al. **Toxicol Appl Pharmacol** 1997 Aug; 145(2):246–54

Effects of in utero and lactational exposure of the laboratory rat to 2,4,2',4'– and 3,4,3',4'–tetrachlorobiphenyl on dopamine function. Seegal RF, et al. **Toxicol Appl Pharmacol** 1997 Sep;146(1):95–103

[Effect of lithium oxybutyrate on the circadian rhythm of brain level of serotonin and plasma level of corticosteroids in mice treated with reserpine] Zamoshchina TA, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):101–5 **(Rus)**

GENETICS

A method for the extraction of genomic DNA from human brain tissue fixed and stored in formalin for many years. Savioz A, et al. **Acta Neuropathol (Berl)** 1997 Apr; 93(4):408–13

Molecular cloning, organization and localization of the gene for the mouse neuropeptide Y–Y5 receptor. Nakamura M, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):83–9

An insertion/deletion polymorphism in the angiotensin converting enzyme gene is associated with both brain substance P contents and affective disorders. Arinami T, et al. **Biol Psychiatry** 1996 Dec 1;40(11):1122–7

Preferential expression of kin, a nuclear protein binding to curved DNA, in the neurons of the adult rat. Araneda S, et al. **Brain Res** 1997 Jul 11;762(1–2):103–13

Identification of a chicken homologue in the Brn–3 subfamily of POU–transcription factors. Lindeberg J, et al. **Brain Res Dev Brain Res** 1997 Jun 18;100(2):169–82

The stress gene response in brain. Massa SM, et al. **Cerebrovasc Brain Metab Rev** 1996 Summer;8(2):95–158 (402 ref.)

Alternative splicing of natriuretic peptide A and B receptor transcripts in the rat brain. Francoeur F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S172–4

Construction and characterization of human brain cDNA libraries suitable for analysis of cDNA clones encoding relatively large proteins. Ohara O, et al. **DNA Res** 1997 Feb 28;4(1):53–9

Quantification of presenilin–1 mRNA in Alzheimer's disease brains. Johnston JA, et al. **FEBS Lett** 1996 Oct 7; 394(3):279–84

A novel gene codes for a putative G protein–coupled receptor with an abundant expression in brain. O'Dowd BF, et al. **FEBS Lett** 1996 Oct 7;394(3):325–9

Prostaglandin E1, E2, and cholera toxin increase transcription of the brain creatine kinase gene in human U87 glioblastoma cells. Kuzhikandathil EV, et al. **Glia** 1995 Dec;15(4):471–9

Expression of connexin43 mRNA in adult rodent brain. Simbürger E, et al. **Histochem Cell Biol** 1997 Feb; 107(2):127–37

Cloning of the mucosal addressin MAdCAM–1 from human brain: identification of novel alternatively spliced transcripts. Leung E, et al. **Immunol Cell Biol** 1996 Dec; 74(6):490–6

Comparative distribution of myristoylated alanine–rich C kinase substrate (MARCKS) and F1/GAP–43 gene expression in the adult rat brain. McNamara RK, et al. **J Comp Neurol** 1997 Mar 3;379(1):48–71

Identification of a rat brain gene associated with aging by PCR differential display method. Wu HC, et al. **J Mol Neurosci** 1997 Feb;8(1):13–8

Cloning of a novel component of A–type K+ channels operating at subthreshold potentials with unique expression in heart and brain. Serôdio P, et al. **J Neurophysiol** 1996 May;75(5):2174–9

Characterization of densin–180, a new brain–specific synaptic protein of the O–sialoglycoprotein family. Apperson ML, et al. **J Neurosci** 1996 Nov 1;16(21):6839–52

Molecular neurogenetics: the genome is settling the issue [editorial; comment] Rosenberg RN. **JAMA** 1997 Oct 15; 278(15):1282–3. Comment on: JAMA 1997 Oct 15;278(15):1237–41. Comment on: JAMA 1997 Oct 15;278(15):1256–61.

Apolipoprotein E genotype and amyloid load in Alzheimer disease and control brains. Pirttilä T, et al. **Neurobiol Aging** 1997 Jan–Feb;18(1):121–7

Presenilin 1 interaction in the brain with a novel member of the Armadillo family. Zhou J, et al. **Neuroreport** 1997 May 27;8(8):2085–90

5–HT2A receptor and bipolar affective disorder: association studies in affected patients. Arranz MJ, et al. **Neurosci Lett** 1997 Mar 14;224(2):95–8

Preferential deposition of amyloid beta protein (Abeta) in the form Abeta40 in Alzheimer's disease is associated with a gene dosage effect of the apolipoprotein E E4 allele. Mann DM, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):81–4

Novel neural adhesion molecules in the Contactin/F3 subgroup of the immunoglobulin superfamily: isolation and characterization of cDNAs from rat brain [published erratum appears in Neurosci Lett 1997 Jan 17;221(2–3):217] Ogawa J, et al. **Neurosci Lett** 1996 Nov 8;218(3):173–6

Transcription supports age–related increases of GFAP gene expression in the male rat brain. Yoshida T, et al. **Neurosci Lett** 1996 Sep 6;215(2):107–10

Differential response of calmodulin genes in the mouse brain after systemic kainate administration. Solà C, et al. **Neuroscience** 1997 May;78(1):155–64

Neurotensin levels and receptors in HAS and LAS rat brains: effects of ethanol. Erwin VG, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):525–32

BNaC1 and BNaC2 constitute a new family of human neuronal sodium channels related to degenerins and epithelial sodium channels. García–Añoveros J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1459–64

Human brain contains high levels of heteroplasmy in the noncoding regions of mitochondrial DNA. Jazin EE, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12382–7

Cloning, expression, and distribution of a Ca(2+)–activated K+ channel beta–subunit from human brain. Tseng–Crank J, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):9200–5

IMMUNOLOGY

The M22 antibody identifies highly activated reactive astrocytes responding to central nervous system disease. Eddleston M, et al. **Acta Neuropathol (Berl)** 1996; 91(3):298–308

Widespread immunoreactivity of presenilin in neurons of normal and Alzheimer's disease brains: double–labeling immunohistochemical study. Uchihara T, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):325–30

Interleukin–8 receptor B immunoreactivity in brain and neuritic plaques of Alzheimer's disease. Xia M, et al. **Am J Pathol** 1997 Apr;150(4):1267–74

PHYSIOLOGY

A systematic histochemical investigation in mammals of the dense glycocalyx glycosylations common to all cells bordering the interstitial fluid compartment of the brain. Debbage PL. **Acta Histochem** 1996 Jan;98(1):9–28

The neurochemistry of the GnRH pulse generator. Wuttke W, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):707–13 (21 ref.)

A laser microprobe mass analysis of trace elements in brain mineralizations and capillaries in Fahr's disease. Bouras C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):351–7

Lymphocyte adhesion molecule ligands and extracellular matrix proteins in gliomas and normal brain: expression of VCAM–1 in gliomas. Mäenpää A, et al. **Acta Neuropathol (Berl)** 1997 Sep;94(3):216–25

Use of brain lactate levels to predict outcome after perinatal asphyxia. Leth H, et al. **Acta Paediatr** 1996 Jul;85(7):859–64

Correlation between absolute deoxyhaemoglobin [dHb] measured by near infrared spectroscopy (NIRS) and absolute R2' as determined by magnetic resonance imaging (MRI). Punwani S, et al. **Adv Exp Med Biol** 1997; 413:129–37

Production of platelet–activating factor by brain microvascular endothelial cells. Satoh K, et al. **Adv Exp Med Biol** 1996;416:17–20 (7 ref.)

Characterization of plasmalogen–selective phospholipase A2 from bovine brain. Yang HC, et al. **Adv Exp Med Biol** 1996;416:309–13 (12 ref.)

Chrono–neuroendocrine markers of the aging brain. Ferrari E, et al. **Aging (Milano)** 1996 Oct;8(5):320–7

Successive isolation and separation of the major lipid fractions including gangliosides from single biological samples. Dreyfus H, et al. **Anal Biochem** 1997 Jun 15; 249(1):67–78

Mechanism of enantioseparation of salsolinols, endogenous neurotoxins in human brain, with ion–pair chromatography using beta–cyclodextrin as a mobile phase additive. Deng Y, et al. **Anal Chem** 1996 Sep 1;68(17):2826–31

Ontogeny of vasoactive intestinal peptide gene expression in rat brain. Graber M, et al. **Anat Embryol (Berl)** 1996 Dec;194(6):595–605

Effects of protein–energy malnutrition on muscarinic receptor density and acetylcholinesterase activity in rat brain. Viana GS, et al. **Ann Nutr Metab** 1997;41(1):52–9

Distribution of neuropeptide Y and gonadotropin–releasing hormone immunoreactivities in the brain and hypophysis of the ayu, Plecoglossus altivelis (Teleostei). Chiba A, et al. **Arch Histol Cytol** 1996 May;59(2):137–48

Membrane currents elicited by the organic calcium channel blocker verapamil in native and rat brain RNA–injected oocytes of Xenopus laevis. Hübschle T, et al. **Arzneimittelforschung** 1997 Jan;47(1):1–5

The effect of continuous intraventricular infusion of L1 and NCAM antibodies on spatial learning in rats. Arami S, et al. **Behav Brain Res** 1996 Nov;81(1–2):81–7

Serotonin2 receptors and the serotonin transporter in the schizophrenic brain. Dean B, et al. **Behav Brain Res** 1996; 73(1–2):169–75

A new peptide, 5–HT–moduline, isolated and purified from mammalian brain specifically interacts with 5–HT1B/1D receptors. Fillion G, et al. **Behav Brain Res** 1996; 73(1–2):313–17

Complex patterns of immediate early gene induction in rat brain following brightness discrimination training and pseudotraining. Grimm R, et al. **Behav Brain Res** 1997 Mar; 84(1–2):109–16

Alterations in acetylcholine, NMDA, benzodiazepine receptors and protein kinase C in the brain of the senescence–accelerated mouse: an animal model useful for studies on cognitive enhancers. Nomura Y, et al. **Behav Brain Res** 1997 Feb;83(1–2):51–5

NMDA and non–NMDA sensitive [L–3H]glutamate receptor binding in the brain of the Naples high– and low–excitability rats: an autoradiographic study. Sadile AG, et al. **Behav Brain Res** 1996 Aug;78(2):163–74

The role of brain noradrenaline in cortical activation and behavior: a study of lesions of the locus coeruleus, medial thalamus and hippocampus–neocortex and of muscarinic blockade in the rat. Vanderwolf CH, et al. **Behav Brain Res** 1996 Aug;78(2):225–34

Regional distribution and ontogeny of 5–HT4 binding sites in rat brain. Waeber C, et al. **Behav Brain Res** 1996; 73(1–2):259–62

Auditory-evoked potentials as indicator of brain serotonergic activity--first evidence in behaving cats. Juckel G, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1181-95

Induction of tetradecanoyl phorbol acetate-inducible sequence (TIS) genes by electroconvulsive shock in rat brain. Jung HY, et al. **Biol Psychiatry** 1996 Sep 15; 40(6):503-7

Serotonin transporter binding sites and mRNA levels in depressed persons committing suicide. Little KY, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1156-64

Relationships between verbal memory performance and the cerebral distribution of fluorodeoxyglucose in patients with schizophrenia. Mozley LH, et al. **Biol Psychiatry** 1996 Sep 15;40(6):443-51

A PET study of Turner's syndrome: effects of sex steroids and the X chromosome on brain. Murphy DG, et al. **Biol Psychiatry** 1997 Feb 1;41(3):285-98

In vitro 1H-magnetic resonance spectroscopy of postmortem brains with schizophrenia. Omori M, et al. **Biol Psychiatry** 1997 Sep 1;42(5):359-66

Three forms of gonadotropin-releasing hormone in a perciform fish (Sparus aurata): complementary deoxyribonucleic acid characterization and brain localization. Gothilf Y, et al. **Biol Reprod** 1996 Sep; 55(3):636-45

Brain endothelium lack one of two pathways of P-selectin-mediated neutrophil adhesion. Barkalow FJ, et al. **Blood** 1996 Dec 15;88(12):4585-93

Human brain somatostatin release from isolated cortical nerve endings and its modulation through GABAB receptors. Bonanno G, et al. **Br J Pharmacol** 1996 Jul;118(6):1441-6

Inositol hexakisphosphate binding sites in rat heart and brain. Rowley KG, et al. **Br J Pharmacol** 1996 Aug; 118(7):1615-20

Neuronal maturation and N-acetyl-L-aspartic acid development in human fetal and child brains. Kato T, et al. **Brain Dev** 1997 Mar;19(2):131-3

Antibodies directed against microtubule proteins from Drosophila melanogaster cross react with similar proteins in the rat brain. Alcantara AA, et al. **Brain Res** 1995 Dec 1;701(1-2):47-54

Age-related changes in bindings of second messengers in the rat brain. Araki T, et al. **Brain Res** 1995 Dec 18; 704(2):227-32

Quantitative autoradiographic analysis of D1 and D2 dopamine receptors in rat brain in early and late pregnancy. Bakowska JC, et al. **Brain Res** 1995 Dec 12; 703(1-2):191-200

Depletion of brain glutathione results in a decrease of glutathione reductase activity; an enzyme susceptible to oxidative damage. Barker JE, et al. **Brain Res** 1996 Apr 15;716(1-2):118-22

Progesterone, 5alpha-pregnane-3,20-dione and 3alpha-hydroxy-5alpha-pregnane-20-one in specific regions of the human female brain in different endocrine states. Bixo M, et al. **Brain Res** 1997 Aug 1;764(1-2):173-8

Identification of a long huntingtin mRNA transcript in mouse brain. Casanova E, et al. **Brain Res** 1995 Dec 16; 743(1-2):320-3

The isolation and characterization of a novel G protein-coupled receptor regulated by immunologic challenge. Charlton ME, et al. **Brain Res** 1997 Aug 1; 764(1-2):141-8

Distribution of two molecular forms of gonadotropin-releasing hormone (GnRH) in the central nervous system of the frog Rana ridibunda. Collin F, et al. **Brain Res** 1995 Dec 12;703(1-2):111-28

Evidence for pharmacologically distinct GABAB receptors associated with cAMP production in rat brain. Cunningham MD, et al. **Brain Res** 1996 May 13; 720(1-2 :220-4

Effect of fasting and immobilization stress on estrogen receptor immunoreactivity in the brain in ovariectomized female rats. Estacio MA, et al. **Brain Res** 1996 Apr 22; 717(1-2):55-61

Chronic escapable footshock causes a reduced response to morphine in rats as assessed by local cerebral metabolic rates. Gescuk BD, et al. **Brain Res** 1995 Dec 1; 701(1-2):279-87

A comprehensive analysis of the distribution of FGF-2 and FGFR1 in the rat brain. Gonzalez AM, et al. **Brain Res** 1995 Dec 1;701(1-2):201-26

Nerve growth factor (NGF) content in adult rat brain tissues is several-fold higher than generally reported and is largely associated with sedimentable fractions. Hoener MC, et al. **Brain Res** 1996 Jul 22;728(1):47-56

Immunohistochemical localization of tissue factor pathway inhibitor-1 (TFPI-1), a Kunitz proteinase inhibitor, in Alzheimer's disease. Hollister RD, et al. **Brain Res** 1996 Jul 22;728(1):13-9

Immunoreactivity of growth inhibitory factor in normal rat brain and after stab wounds--an immunocytochemical study using confocal laser scan microscope. Hozumi I, et al. **Brain Res** 1996 Nov 25;741(1-2):197-204

Androgen receptor-like immunoreactivity in the Brazilian opossum brain and pituitary: distribution and effects of castration and testosterone replacement in the adult male. Iqbal J, et al. **Brain Res** 1995 Dec 12;703(1-2):1-18

Brain distribution of vasoactive intestinal peptide receptors following REM sleep deprivation. Jiménez-Anguiano A, et al. **Brain Res** 1996 Jul 22;728(1):37-46

Localization of the Rev-ErbA orphan receptors in the brain. Kainu T, et al. **Brain Res** 1996 Dec 16;743(1-2):315-9

Increased 3-nitrotyrosine in brains of Apo E-deficient mice. Matthews RT, et al. **Brain Res** 1996 Apr 29;718(1-2):181-4

On the distribution of cholecystokinin B receptors in monkey brain. Mercer LD, et al. **Brain Res** 1996 Nov 4;738(2):313-8

Rapid conversion of myelin-associated glycoprotein to a soluble derivative in primates. Möller JR. **Brain Res** 1996 Nov 25;741(1-2):27-31

Regional changes in beta1 thyroid hormone receptor immunoreactivity in rat brain after thyroidectomy. Nobrega JN, et al. **Brain Res** 1997 Jun 27;761(1):161-4

Distributional characteristics of the mRNA for retinoid Z receptor beta (RZR beta), a putative nuclear melatonin receptor, in the rat brain and spinal cord. Park HT, et al. **Brain Res** 1997 Feb 7;747(2):332-7

Effects of freezing storage time on the density of muscarinic receptors in the human postmortem brain: an autoradiographic study in control and Alzheimer's disease brain tissues. Rodriguez-Puertas R, et al. **Brain Res** 1996 Jul 22;728(1):65-71

The distribution of normal brain water content in Wistar rats and its increase due to ischemia. Schwab M, et al. **Brain Res** 1997 Feb 21;749(1):82-7

Co-variation of free amino acids in brain interstitial fluid during pentylenetetrazole-induced convulsive status epilepticus. Sechi G, et al. **Brain Res** 1997 Aug 1; 764(1-2):230-6

[125I]4-aminobenzyl-5'-N-methylcarboxamidoadenosine (125I)AB-MECA) labels multiple adenosine receptor subtypes in rat brain. Shearman LP, et al. **Brain Res** 1997 Jan 16;745(1-2):10-20

Changes of neurocalcin, a calcium-binding protein, in the brain of patients with Alzheimer's disease. Shimohama S, et al. **Brain Res** 1996 Apr 15;716(1-2):233-6

Biochemical characterization of related microtubule proteins in Drosophila melanogaster and adult rat brain. Srinivasan S, et al. **Brain Res** 1995 Dec 1;701(1-2):39-46

Relative phosphocreatine and nucleoside triphosphate concentrations in cerebral gray and white matter measured in vivo by 31P nuclear magnetic resonance. Tsuji MK, et al. **Brain Res** 1996 Jan 29;707(2):146-54

Heme from Alzheimer's brain inhibits muscarinic receptor binding via thiyl radical generation. Venters HD Jr, et al. **Brain Res** 1997 Aug 1;764(1-2):93-100

Subpopulation of dogs with severe brain parenchymal beta amyloidosis distinguished with cluster analysis. Węgiel J, et al. **Brain Res** 1996 Jul 22;728(1):20-6

Rats with decreased brain cholecystokinin levels show increased responsiveness to peripheral electrical stimulation-induced analgesia. Zhang LX, et al. **Brain Res** 1997 Jan 16;745(1-2):158-64

Analysis of glial fibrillary acidic protein, neurofilament protein, actin and heat shock proteins in human fetal brain during the second trimester. Aquino DA, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):1-10

Developmental profile of NGF immunoreactivity in the rat brain: a possible role of NGF in the establishment of cholinergic terminal fields in the hippocampus and cortex. Conner JM, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1-2):67-79

Postnatal development of the dopamine transporter: a quantitative autoradiographic study [published erratum appears in Brain Res Dev Brain Res 1996 Jan 2;98(1):150] Coulter CL, et al. **Brain Res Dev Brain Res** 1996 Apr 30; 92(2):172-81

The development of a species difference in the local distribution of brain estrogen receptive cells. Gahr M, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):182-9

Ontogenic development of secretogranin II and of its processing to secretoneurin in rat brain. Leitner B, et al. **Brain Res Dev Brain Res** 1997 Jun 18;100(2):161-8

The prepubertal ontogeny of galanin-like immunoreactivity in the male Meishan pig brain. Pearson PL, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):125-39

The prepubertal ontogeny of neuropeptide Y-like immunoreactivity in the male Meishan pig brain. Pearson PL, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):41-69

Autoradiographic evidence of mu-opioid receptors down-regulation after prenatal stress in offspring rat brain. Sanchez MD, et al. **Brain Res Dev Brain Res** 1996 Jun 14;94(1):14-21

Regional analysis of developmental changes in the extent of GluR6 mRNA editing in rat brain. Schmitt J, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):153-7

The postembryonic development of somatostatin immunoreactivity in the central posterior/prepacemaker nucleus of weakly electric fish, Apteronotus leptorhynchus: a double-labelling study. Stroh T, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):76-87

Distribution of the mRNA for protein phosphatase T in rat brain. Becker W, et al. **Brain Res Mol Brain Res** 1996 Feb; 36(1):23-8

Protein components of a rat brain synaptic junctional protein preparation. Langnaese K, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):118-22

Discrete brain areas express the insulin-responsive glucose transporter GLUT4. Leloup C, et al. **Brain Res Mol Brain Res** 1996 May;38(1):45-53

Molecular cloning of mouse Doc2alpha and distribution of its mRNA in adult mouse brain. Naito A, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):198-204

Messenger RNAs encoding steroidogenic enzymes are expressed in rodent brain. Strömstedt M, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):75-88

Regional distribution of GABA transporter 1 (GAT1) mRNA in the rat brain: comparison with glutamic acid decarboxylase67 (GAD67) mRNA localization. Yasumi M, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):205-18

The modulation of brain dopamine and GABAA receptors by estradiol: a clue for CNS changes occurring at menopause. Bossé R, et al. **Cell Mol Neurobiol** 1996 Apr; 16(2):199-212

On the role of glucocorticoid receptors in brain plasticity. Fuxe K, et al. **Cell Mol Neurobiol** 1996 Apr;16(2):239-58

Membrane receptors for estrogen, progesterone, and testosterone in the rat brain: fantasy or reality. Ramirez VD, et al. **Cell Mol Neurobiol** 1996 Apr;16(2):175-98

Expression of serine/threonine kinase receptors including the bone morphogenetic factor type II receptor in the developing and adult rat brain. Söderström S, et al. **Cell Tissue Res** 1996 Nov;286(2):269-79

Opiate receptor-mediated mechanisms in the regulation of cerebral blood flow. Benyó Z, et al. **Cerebrovasc Brain Metab Rev** 1996 Winter;8(4):326-57 (216 ref.)

Brain angiotensin and circulatory control. Muratani H, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul; 23(6-7):458-64 (74 ref.)

Functional alteration of the GABAB receptor in the brain of spontaneously hypertensive rats. Ichida T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S51-3

Role of cerebral ATP-sensitive K+ channels in arterial pressure regulation during acute cerebral ischaemia in SHR and WKY rats. Nishimura M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S70-2

Age-related changes in cerebral and peripheral monoamine contents in stroke-prone spontaneously hypertensive rats. Uchida T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S80-2

Stiff-man syndrome: possible autoimmune etiology targeted against GABA-ergic cells. Warich-Kirches M, et al. **Clin Neuropathol** 1997 Jul-Aug;16(4):214-9

Brain monoamines and optokinetic performances in pigmented and albino rats. Cransac H, et al. **Comp Biochem Physiol A Physiol** 1997 Apr;116(4):341-9

Interaction of metals with muscarinic cholinoceptor and adrenoceptor binding, and agonist-stimulated inositol phospholipid hydrolysis in rat brain. Rajanna B, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Feb;116(2):111-6

Neutral monoglycosylceramides in rat brain: occurrence, molecular expression and developmental variation. Dasgupta S, et al. **Dev Neurosci** 1997;19(2):152-61

Inhibition of fatty acid beta-oxidation in rat brain cultured astrocytes exposed to the neurotoxin 3-nitropropionic acid. Esfandiari A, et al. **Dev Neurosci** 1997;19(4):312-20

Brain creatine kinase reaction rates and reactant concentrations during seizures in developing rats. Holtzman D, et al. **Epilepsy Res** 1997 Apr;27(1):7-11

Neurochemical parameters in senile dementia of the Alzheimer type. A longitudinal study in four cases [letter] Strittmatter M, et al. **Eur Arch Psychiatry Clin Neurosci** 1996;246(2):110-11

Implantable defibrillatory shocks [letter; comment] Friedman EH. **Eur Heart J** 1996 Nov;17(11):1757-8. Comment on: Eur Heart J 1995 Sep;16(9):1231-3.

Cerebral microdialysis as a diagnostic tool in acute brain injury. Landolt H, et al. **Eur J Anaesthesiol** 1996 May; 13(3):269-78 (38 ref.)

Localization of neuropeptide Y Y1 mRNA in the human brain: abundant expression in cerebral cortex and striatum. Caberlotto L, et al. **Eur J Neurosci** 1997 Jun;9(6):1212-25

Expression and coupling to polyphosphoinositide hydrolysis of group I metabotropic glutamate receptors in early postnatal and adult rat brain. Casabona G, et al. **Eur J Neurosci** 1997 Jan;9(1):12-7

Characteristic localization of gp130 (the signal-transducing receptor component used in common for IL-6/IL-11/CNTF/LIF/OSM) in the rat brain. Watanabe D, et al. **Eur J Neurosci** 1996 Aug;8(8):1630-40

Localization of 2-[125I]iodomelatonin binding sites in visual areas of the turtle brain. Larson-Prior LJ, et al. **Eur J Pharmacol** 1996 Feb 15;297(1-2):181-5

Vesicular dysfunction during experimental thiamine deficiency is indicated by alterations in dopamine metabolism. Mousseau DD, et al. **Eur J Pharmacol** 1996 Dec 19;317(2-3):263-7

Exquisite delineation of 5-HT1A receptors in human brain with PET and [carbonyl-11 C]WAY-100635. Pike VW, et al. **Eur J Pharmacol** 1996 Apr 22;301(1-3):R5-7

Imidazoline binding sites in Huntington's and Parkinson's disease putamen. Reynolds GP, et al. **Eur J Pharmacol** 1996 Apr 22;301(1-3):R19-21

The role of brain acetylcholine in GABAA receptor antagonist-induced blood-pressure changes in rat. Tellioglu T, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2-3):301-7

Somatostatin receptors in the developing rat brain. Thoss VS, et al. **Eur J Pharmacol** 1996 Feb 15;297(1-2):145-55

Neuropeptides and Alzheimer's disease. Gottfries CG, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):491-500 (113 ref.)

In vivo cyclic AMP responses in rat brain are not modified by chronic electroconvulsive shock. Gur E, et al.

Eur Neuropsychopharmacol 1997 Aug;7(3):189–93

Differential psychopathology and patterns of cerebral glucose utilisation produced by (S)- and (R)-ketamine in healthy volunteers using positron emission tomography (PET). Vollenweider FX, et al.
Eur Neuropsychopharmacol 1997 Feb;7(1):25–38

A mouse mutant strain highly resistant to methyl beta-carboline-3-carboxylate-induced seizures. Clément Y, et al. **Exp Brain Res** 1996 Jun;110(1):28–35

Expression of Fos-like immunoreactivity in the brain and spinal cord of rats following middle cerebral artery occlusion. Wu YP, et al. **Exp Brain Res** 1997 Jun; 115(1):129–36

Habrec1, a novel serine/threonine kinase TGF-beta type I-like receptor, has a specific cellular expression suggesting function in the developing organism and adult brain. Lorentzon M, et al. **Exp Neurol** 1996 Dec;142(2):351–60

Electrophysiology of the circumventricular organs. Ferguson AV, et al. **Front Neuroendocrinol** 1996 Oct;17(4):440–75 (177 ref.)

Membrane sex-steroid receptors in the brain. Ramirez VD, et al. **Front Neuroendocrinol** 1996 Oct;17(4):402–39 (200 ref.)

Immunolocalization of aromatase- and androgen receptor-positive neurons in the goldfish brain. Gelinas D, et al. **Gen Comp Endocrinol** 1997 May;106(2):155–68

Reproduction in the Mexican leaf frog, Pachymedusa dacnicolor. VI. Presence and distribution of multiple GnRH forms in the brain. Iela L, et al.
Gen Comp Endocrinol 1996 Sep;103(3):235–43

CCK-X receptors in the endothermic mako shark (Isurus oxyrinchus). Oliver AS, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):61–73

Growth hormone-releasing hormone immunoreactivity in the brain, pituitary, and pineal of the goldfish, Carassius auratus. Rao SD, et al. **Gen Comp Endocrinol** 1996 May; 102(2):210–20

Influence of age on the passage of paraquat through the blood-brain barrier in rats: a distribution and pathological examination. Widdowson PS, et al. **Hum Exp Toxicol** 1996 Mar;15(3):231–6

Brain dopamine in experimental diabetes [letter] Ramakrishnan R, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):193–5

Nutritional recovery does not reverse the activation of brain serotonin synthesis in the ontogenetically malnourished rat. Manjarrez GG, et al. **Int J Dev Neurosci** 1996 Aug; 14(5):641–8

Identification of immunoreactive mammalian gonadotropin-releasing hormone in the brain of metamorphic larvae of Bufo arenarum Hensel (Amphibia: Anura). Somoza GM, et al. **Int J Dev Neurosci** 1996 Aug; 14(5):663–72

Differential expression of the soluble 170 kDa brain protein in the fetal and adult human brain. Yew DT, et al.
Int J Dev Neurosci 1996 Aug;14(5):551–7

Effect of brain acetylcholine depletion on bicuculline-induced cardiovascular and locomotor responses. Tellioğlu T, et al. **Int J Neurosci** 1997 Feb; 89(3-4):143–52

Brain serotonin depletion attenuates heatstroke-induced cerebral ischemia and cell death in rats. Kao TY, et al.
J Appl Physiol 1996 Feb;80(2):680–4

Cause of catecholamine distribution change in the schizophrenic brain. Rosenstein GZ.
J Basic Clin Physiol Pharmacol 1994 Apr-Jun;5(2):101–5

Immunocytochemical detection of the neurokinin B receptor (NK3) on melanin-concentrating hormone (MCH) neurons in rat brain. Griffond B, et al. **J Chem Neuroanat** 1997 Mar;12(3):183–9

Purification of human brain metallothionein by organic and reversed-phase high-performance liquid chromatography under acidic conditions. Cartel NJ.
J Chromatogr B Biomed Appl 1996 Feb 9;676(1):159–64

High-performance liquid chromatographic determination of midazolam in rat brain. Jiang Q, et al.
J Chromatogr B Biomed Appl 1996 Aug 30;683(2):276–80

Identification of 3-nitro-L-tyrosine, a product of nitric oxide and superoxide, as an indicator of oxidative stress in the human brain. Maruyama W, et al.
J Chromatogr B Biomed Appl 1996 Feb 9;676(1):153–8

Determination of N-nitroso-L-arginine in rat brain extracts by capillary electrophoresis using photodiode-array detection. Meulemans A. **J Chromatogr B Biomed Appl** 1996 Aug 30;683(2):273–5

Effects of abstinence and relapse upon neuropsychological function and cerebral glucose metabolism in severe chronic alcoholism. Johnson-Greene D, et al.
J Clin Exp Neuropsychol 1997 Jun;19(3):378–85

Neurochemical mechanisms in brain injury and treatment: a review. Novack TA, et al. **J Clin Exp Neuropsychol** 1996 Oct;18(5):685–706 (192 ref.)

TRK and p75 neurotrophin receptor systems in the developing human brain. Chen EY, et al.
J Comp Neurol 1996 Jun 10;369(4):591–618

Regional and ultrastructural distribution of the alpha 8 integrin subunit in developing and adult rat brain suggests a role in synaptic function. Einheber S, et al.
J Comp Neurol 1996 Jun 17;370(1):105–34

Distribution of Fos-like immunoreactivity in the rat brain following intravenous lipopolysaccharide administration. Elmquist JK, et al. **J Comp Neurol** 1996 Jul 15; 371(1):85–103

Embryonic and postnatal expression of four gamma-aminobutyric acid transporter mRNAs in the mouse brain and leptomeninges. Evans JE, et al.
J Comp Neurol 1996 Dec 16;376(3):431–46

Immunocytochemical localization of the alpha 6 subunit of the gamma-aminobutyric acidA receptor in the rat nervous system. Gutiérrez A, et al. **J Comp Neurol** 1996 Feb 12; 365(3):504–10

Distribution of the mRNA for a pituitary adenylate cyclase-activating polypeptide receptor in the rat brain: an in situ hybridization study. Hashimoto H, et al.
J Comp Neurol 1996 Aug 5;371(4):567–77

Sympathetic axons invade the brains of mice overexpressing nerve growth factor. Kawaja MD, et al.
J Comp Neurol 1997 Jun 23;383(1):60–72

Connexin32 in oligodendrocytes and association with myelinated fibers in mouse and rat brain. Li J, et al.
J Comp Neurol 1997 Mar 24;379(4):571–91

Distribution of gonadotropin-releasing hormone immunoreactivity in the brain of Ichthyophis beddomei (Amphibia: Gymnophiona). Pinelli C, et al.
J Comp Neurol 1997 Jul 28;384(2):283–92

Hybridization histochemical and immunohistochemical localization of inhibin/activin subunits and messenger ribonucleic acids in the rat brain. Roberts VJ, et al.
J Comp Neurol 1996 Jan 15;364(3):473–493

Distribution of alpha 2C-adrenergic receptor-like immunoreactivity in the rat central nervous system. Rosin DL, et al. **J Comp Neurol** 1996 Aug 12;372(1):135–65

Differentiation of glycoconjugates localized to sensory terminals and selected sites in brain. Spicer SS, et al.
J Comp Neurol 1996 Feb 5;365(2):217–31

Immunocytochemical localization of atrial natriuretic factor and autoradiographic distribution of atrial natriuretic factor binding sites in the brain of the African lungfish, Protopterus annectens. Vallarino M, et al.
J Comp Neurol 1996 Nov 18;375(3):345–62

Cortisol in human tissues at different stages of life. Costa A, et al. **J Endocrinol Invest** 1996 Jul-Aug;19(7):463–71

Molecular analysis of the putative inactivation particle in the inactivation gate of brain type IIA Na+ channels. Kellenberger S, et al. **J Gen Physiol** 1997 May; 109(5):589–605

Molecular analysis of potential hinge residues in the inactivation gate of brain type IIA Na+ channels. Kellenberger S, et al. **J Gen Physiol** 1997 May; 109(5):607–17

Polyunsaturated fatty acids in the developing human brain, erythrocytes and plasma in peroxisomal disease: therapeutic implications. Martinez M. **J Inherit Metab Dis** 1995;18 Suppl 1:61–75 (19 ref.)

Absolute quantification of phospholipid metabolites in brain-tissue extracts by 1H NMR spectroscopy. Ala-Korpela M, et al. **J Magn Reson B** 1996 Nov; 113(2):184–9

Three related brain nuclear receptors, NGFI-B, Nurr1, and NOR-1, as transcriptional activators. Paulsen RF, et al.
J Mol Neurosci 1995;6(4):249–55

Brain monoaminergic and neuropeptidergic variations in human aging. Arranz B, et al. **J Neural Transm** 1996; 103(1-2):101–15

An in vivo comparison of the capacity of striatal versus extrastriatal brain regions to form dopamine from exogenously administered L-dopa. Brannan T, et al.
J Neural Transm 1996;103(11):1287–94

Autoradiographic characterization of [3H]inositol (1,4,5) trisphosphate and [3H]inositol (1,3,4,5) tetrakisphosphate binding sites in human brain. Kurumatani T, et al.
J Neural Transm 1997;104(2-3):175–89

Developmental distribution of glycosaminoglycans in embryonic rat brain: relationship to axonal tract formation. Fernaud-Espinosa I, et al. **J Neurobiol** 1996 Jul; 30(3):410–24

Mating-induced expression of c-fos in the male Syrian hamster brain: role of experience, pheromones, and ejaculations. Kollack-Walker S, et al. **J Neurobiol** 1997 May;32(5):481–501

Radiolabeled ligands specific for the G protein-coupled state of neurotensin receptors. Gaudriault G, et al.
J Neurochem 1996 Dec;67(6):2590–8

Cytoskeletal changes in the brains of mice lacking calcineurin A alpha. Kayyali US, et al. **J Neurochem** 1997 Apr; 68(4):1668–78

Characterization of 5,7-dichlorokynurenate-insensitive D-[3H]serine binding to synaptosomal fraction isolated from rat brain tissues. Matoba M, et al. **J Neurochem** 1997 Jul;69(1):399–405

Monoamine transporter gene expression in the central nervous system in diabetes mellitus. Petrisić MS, et al.
J Neurochem 1997 Jun;68(6):2435–41

Expression of the Na+-D-glucose cotransporter SGLT1 in neurons. Poppe R, et al. **J Neurochem** 1997 Jul;69(1):84–94

Brain lactate is an obligatory aerobic energy substrate for functional recovery after hypoxia: further in vitro validation. Schurr A, et al. **J Neurochem** 1997 Jul; 69(1):423–6

Rearrangement and reactivation of the myelin basic protein locus in myelin-deficient (mld) mouse brain. Sun Y, et al.
J Neurochem 1997 Feb;68(2):457–68

Expression of Bcl-2 in adult human brain regions with special reference to neurodegenerative disorders. Vyas S, et al.
J Neurochem 1997 Jul;69(1):223–31

NMDA receptor heterogeneity during postnatal development of the rat brain: differential expression of the NR2A, NR2B, and NR2C subunit proteins. Wenzel A, et al. **J Neurochem** 1997 Feb;68(2):469–78

Sex differences in cytosolic androgen receptors in gonadectomized male and female rats. McGinnis MY, et al. **J Neuroendocrinol** 1996 Mar;8(3):193–7

Leukaemia inhibitory factor mRNA is expressed in the brains of patients with subacute sclerosing panencephalitis. McQuaid S, et al. **J Neuroimmunol** 1997 Jul;77(1):57–62

Effect of aging on dopaminergic receptors and uptake sites in the rat brain studied by receptor autoradiography. Araki T, et al. **J Neurol Sci** 1997 May 29;148(2):131–7

Speech-induced cerebral metabolic activation reflects recovery from aphasia. Heiss WD, et al. **J Neurol Sci** 1997 Feb 12;145(2):213–7

Expression and distribution of the dentatorubral-pallidoluysian atrophy gene product (atrophin-1/drplap) in neuronal and non-neuronal tissues. Knight SP, et al. **J Neurol Sci** 1997 Feb 27;146(1):19–26

Inhibition of the high-affinity uptake of D-[3H]aspartate in rate by L-alpha-aminoadipate and arachidonic acid. Lundy DF, et al. **J Neurol Sci** 1996 Aug;139 Suppl:1–9

IL-6 detection in multiple sclerosis brain. Maimone D, et al. **J Neurol Sci** 1997 Feb 27;146(1):59–65

Gq/11 and PLC-beta 1 mediate the substance P-induced inhibition of an inward rectifier K+ channel in brain neurons. Takano K, et al. **J Neurophysiol** 1996 Sep; 76(3):2131–6

Local cerebral glucose metabolism in patients with long-term behavioral and cognitive deficits following mild traumatic brain injury. Gross H, et al.
J Neuropsychiatry Clin Neurosci 1996 Summer;8(3):324–34

The neurobiology of drug addiction. Koob GF, et al.
J Neuropsychiatry Clin Neurosci 1997 Summer;9(3):482–97 (169 ref.)

Intrahypothalamic implantation of progesterone in castrated male whiptail lizards (Cnemidophorus inornatus) elicits courtship and copulatory behavior and affects androgen receptor- and progesterone receptor-mRNA expression in the brain. Crews D, et al. **J Neurosci** 1996 Nov 15; 16(22):7347–52

Heteromultimerization of G-protein-gated inwardly rectifying K+ channel proteins GIRK1 and GIRK2 and their altered expression in weaver brain. Liao YJ, et al.
J Neurosci 1996 Nov 15;16(22):7137–50

Phosphorylation at a single site in the rat brain sodium channel is necessary and sufficient for current reduction by protein kinase A. Smith RD, et al. **J Neurosci** 1997 Aug 15;17(16):6086–93

Continuous enzyme-linked fluorometric detection of L-(+)-lactate released from rat brain vesicles under anoxic conditions. Gleitz J, et al. **J Neurosci Methods** 1996 Aug; 67(2):97–102

Triple immunofluorescence labelling of parvalbumin, calbindin-D28k and calretinin in rat and monkey brain. Härtig W, et al. **J Neurosci Methods** 1996 Aug;67(2):89–95

Confocal imaging of intracellular chloride in living brain slices: measurement of GABAA receptor activity. Inglefield JR, et al. **J Neurosci Methods** 1997 Aug 22; 75(2):127–35

A portable chamber for long-distance transport of surviving human brain slice preparations. Köhling R, et al.
J Neurosci Methods 1996 Aug;67(2):233–6

Identification and neuron specific expression of the S182/presenilin I protein in human and rodent brains. Elder GA, et al. **J Neurosci Res** 1996 Aug 1;45(3):308–20

Characterization of two distinct populations of detergent resistant membrane complexes isolated from chick brain tissues. Henke RC, et al. **J Neurosci Res** 1996 Sep 1; 45(5):617–30

Variants of the receptor/channel clustering molecule gephyrin in brain: distinct distribution patterns, developmental profiles, and proteolytic cleavage by calpain. Kawasaki BT, et al. **J Neurosci Res** 1997 Aug 1; 49(3):381–8

Characterization and sleep deprivation-induced expression modulation of dendrin, a novel dendritic protein in rat brain neurons. Neuner-Jehle M, et al. **J Neurosci Res** 1996 Oct 15;46(2):138–51

Neuronal expression of hippocampal cholinergic neurostimulating peptide (HCNP)-precursor mRNA in rat brain. Taiji M, et al. **J Neurosci Res** 1996 Aug 1; 45(3):202–15

Altered NGF protein levels in different brain areas after immunolesion. Yu J, et al. **J Neurosci Res** 1996 Jan 15; 43(2):213–23

Extracellular release of serotonin following fluid-percussion brain injury in rats. Busto R, et al. **J Neurotrauma** 1997 Jan;14(1):35–42

Expression of multiple classes of the nuclear factor-1 family in the developing human brain: differential expression of two classes of NF-1 genes [see comments] Sumner C, et al. **J Neurovirol** 1996 Apr;2(2):87–100. Comment in: J Neurovirol 1996 Apr;2(2):57–9.

The mechanisms controlling physiologically stimulated changes in rat brain glucose and lactate: a microdialysis study. Fray AE, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):49–57

Functional characterization of Kv channel beta-subunits from rat brain. Heinemann SH, et al. **J Physiol (Lond)** 1996

Jun 15;493 (Pt 3):625–33
Interaction of L–cysteine with a human excitatory amino acid transporter. Zerangue N, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):419–23
Comparative study of .OH generation in brain, heart and liver using microdialysis. Obata T, et al. **J Physiol Paris** 1997 Feb;91(1):39–40
Concentrations of mercury, cadmium and lead in brain and kidney of second trimester fetuses and infants. Lutz E, et al. **J Trace Elem Med Biol** 1996 Jun;10(2):61–7
Depletion of glutathione from brain cells in hyponatremia. Clark EC, et al. **Kidney Int** 1996 Feb;49(2):470–6
Influence of dietary restriction on ionotropic glutamate receptors during aging in C57B1 mice. Magnusson KR. **Mech Ageing Dev** 1997 May;95(3):187–202
Effects of acute hyperammonemia in vivo on oxidative metabolism in nonsynaptic rat brain mitochondria. Kosenko E, et al. **Metab Brain Dis** 1996 Mar;12(1):69–82
Increased cerebral free radical production during thiamine deficiency. Langlais PJ, et al. **Metab Brain Dis** 1997 Jun; 12(2):137–43
Effects of simulated upper gastrointestinal hemorrhage on ammonia and related amino acids in blood and brain of chronic portacaval–shunted rats. Olde Damink SW, et al. **Metab Brain Dis** 1997 Jun;12(2):121–35
Volume regulation in brain cells: cellular and molecular mechanisms. Pasantes–Morales H. **Metab Brain Dis** 1996 Sep;11(3):187–204 (91 ref.)
Muscarinic M1 receptors in schizophrenia [letter; comment] Reynolds GP. **Mol Psychiatry** 1996 Nov;1(5):364–6. Comment on: Mol Psychiatry 1996 Mar;1(1):54–8.
Reductionist science and Alzheimer's disease: redoubling our effort in redox chemistry [news] Wolozia B. **Mol Psychiatry** 1996 Nov;1(5):352–5
Localization of urocortin messenger RNA in rat brain and pituitary [see comments] Wong ML, et al. **Mol Psychiatry** 1996 Sep;1(4):307–12. Comment in: Mol Psychiatry 1996 Sep;1(4):300–1.
beta–Amyloid (A beta) deposition in the brains of aged orangutans. Gearing M, et al. **Neurobiol Aging** 1997 Mar–Apr;18(2):139–46
Age–related changes in c–fos mRNA induction after open–field exposure in the rat brain. Nagahara AH, et al. **Neurobiol Aging** 1997 Jan–Feb;18(1):45–55
Apolipoprotein E genotype and amyloid load in Alzheimer disease and control brains. Pirttilä T, et al. **Neurobiol Aging** 1997 Jan–Feb;18(1):121–7
Amino acid distribution in immature rat brain. Banay–Schwartz M, et al. **Neurobiology (Bp)** 1996; 4(4):393–403
A synaptic membrane glycine–, glutamate– and thienylcyclohexylpiperidine–binding protein: isolation and immunochemical characterization. Babcock KK, et al. **Neurochem Int** 1996 Nov;29(5):507–19
Solubilization of [35S]lanthionine ketimine binding sites from bovine brain. Fontana M, et al. **Neurochem Int** 1996 Feb; 28(2):169–73
Changes of GTP binding proteins, not neurofilament–associated proteins, in the brain of the neurofilament–deficient quail, "Quiver". Hasegawa H, et al. **Neurochem Int** 1996 Feb;28(2):221–29
A postmortem study of glycine and its potential precursors in chronic schizophrenics. Kurumaji A, et al. **Neurochem Int** 1996 Sep;29(3):239–45
The serotonin transporter from human brain: purification and partial characterization. Rotondo A, et al. **Neurochem Int** 1996 Mar;28(3):299–307
Detection of cystathionine ketimine and lanthionine ketimine in human brain. Fontana M, et al. **Neurochem Res** 1997 Jul;22(7):821–4
The gamma subunits of the native GABAA/benzodiazepine receptors. Khan ZU, et al. **Neurochem Res** 1996 Feb; 21(2):147–59
Time–dependent changes in rat brain neuroactive steroid concentrations and GABAA receptor function after acute stress. Barbaccia ML, et al. **Neuroendocrinology** 1996 Feb; 63(2):166–72
Transient upregulation of the AT2 receptor mRNA level after global ischemia in the rat brain. Makino I, et al. **Neuropeptides** 1996 Dec;30(6):596–601
Role of the 5–HT1A receptor in development of the neonatal rat brain: preliminary behavioral studies. Borella A, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):445–50
c–Fos expression during wakefulness and sleep. Pompeiano M, et al. **Neurophysiol Clin** 1995;25(6):329–41 (56 ref.)
Brain cognition and metabolism in Down syndrome adults in association with development of dementia. Dani A, et al. **Neuroreport** 1996 Nov 25;7(18):2933–6
Structure and chromosomal localization of the beta2 subunit of the human brain sodium channel. Eubanks J, et al. **Neuroreport** 1997 Aug 18;8(12):2775–9
Alpha–brain spectrin mRNA belongs to the population of intradendritically transported mRNAs. Gelot A, et al. **Neuroreport** 1996 Dec 20;8(1):113–6
Serial adult sex change involves rapid and reversible changes in forebrain neurochemistry. Grober MS, et al. **Neuroreport** 1996 Nov 25;7(18):2945–9
The movement of IGF–I into the brain parenchyma after hypoxic–ischaemic injury. Guan J, et al. **Neuroreport** 1996 Jan 31;7(2):632–6
Distribution of a rat galanin receptor mRNA in rat brain. Gustafson EL, et al. **Neuroreport** 1996 Mar 22;7(4):953–7
Cellular localization of Na+/MYO–inositol co–transporter mRNA in the rat brain. Inoue K, et al. **Neuroreport** 1996 Apr 26;7(6):1195–8
Expression of the neuropeptide Y Y1 receptor mRNA in the human brain: an in situ hybridization study. Jacques D, et al. **Neuroreport** 1996 Apr 10;7(5):1053–6
Altered dopamine transporter densities in alcohol–preferring vervet monkeys. Mash DC, et al. **Neuroreport** 1996 Jan 31;7(2):457–62
Regionally distinct stoichiometry for N–methyl–D–aspartate receptor domains in brain. Matsunaga T, et al. **Neuroreport** 1996 Feb 29;7(3):833–7
Regional specificity of alterations in NGF, BDNF and NT–3 levels in Alzheimer's disease. Narisawa–Saito M, et al. **Neuroreport** 1996 Nov 25;7(18):2925–8
Nociceptin/orphanin FQ and opioid peptides show overlapping distribution but not co–localization in pain–modulatory brain regions. Schulz S, et al. **Neuroreport** 1996 Nov 25;7(18):3021–5
A somatodendritic distribution of Rab11 in rabbit brain neurons. Sheehan D, et al. **Neuroreport** 1996 May 17; 7(7):1297–300
Dynamic changes in expression of glutamate transporter mRNAs in developing brain. Shibata T, et al. **Neuroreport** 1996 Feb 29;7(3):705–9
Number of correlates of membrane metabolism and long–term potentiation in rat brain slices. Emel'yanov NA, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):221–4
Biogenic amine content in the brains of rats with different levels of resistance to emotional stress. Gorbunova AV, et al. **Neurosci Behav Physiol** 1997 Mar–Apr;27(2):145–52
Comparison of measurements of local brain blood flow by hydrogen clearance with the inhalation of hydrogen and its electrochemical generation in brain tissue. Moskalenko YuE, et al. **Neurosci Behav Physiol** 1996 May–Jun; 26(3):245–50
Molecular basis of the activity of the dopamine synapse in the mechanisms of learning and amnesia. Podgornaya EK, et al. **Neurosci Behav Physiol** 1997 Mar–Apr;27(2):131–6
Basic molecular–cellular mechanisms of adaptive responses of the brain. Samoilov MO. **Neurosci Behav Physiol** 1997 May–Jun;27(3):200–6 (32 ref.)
Universal method for microelectrode and neurochemical investigations of subcortical brain structures of awake cats. Suvorov NF, et al. **Neurosci Behav Physiol** 1996 May–Jun; 26(3):251–5
Differential effects of bilateral dopamine depletion in neonatal and adult rats. Moy SS, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):425–35 (124 ref.)
Glutamatergic control over brain dopamine release in vivo and in vitro. Whitton PS. **Neurosci Biobehav Rev** 1997 Jul; 21(4):481–8 (82 ref.)
Distribution of the GABAA receptor complex beta 2/3 subunits in the brain of the frog Rana pipiens. Aller MI, et al. **Neurosci Lett** 1997 Mar 28;225(1):65–8
Sex difference in 5HT2 receptor in the living human brain. Biver F, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):25–8
Age, neurofibrillary changes, A beta–amyloid and the onset of Alzheimer's disease. Braak H, et al. **Neurosci Lett** 1996 May 31;210(2):87–90
Modification of lymphoid and brain nerve growth factor levels in systemic lupus erythematosus mice. Bracci–Laudiero L, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):13–6
Arginine and ornithine decarboxylation in rodent brain: coincidental changes during development and after ischemia. Gilad GM, et al. **Neurosci Lett** 1996 Sep 20; 216(1):33–6
Electrical stimulation of cerebellar fastigial nucleus fails to rematch blood flow and metabolism in focal ischemic infarctions. Golanov EV, et al. **Neurosci Lett** 1996 Jun 7; 210(3):181–4
Quantitative comparison of mu opioid receptor mRNA in selected CNS regions of alcohol naive rats selectively bred for high and low alcohol drinking. Gong J, et al. **Neurosci Lett** 1997 May 9;227(1):9–12
Autoradiography of transferrin receptors in the human brain. Griffiths PD, et al. **Neurosci Lett** 1996 Jun 14;211(1):53–6
Cardiac arrest induces decrease of nitric oxide synthase activity and increase of free radical generation in rat brain regions. Gulyaeva NV, et al. **Neurosci Lett** 1996 Dec 20; 220(3):147–50
The relative importance of premortem acidosis and postmortem interval for human brain gene expression studies: selective mRNA vulnerability and comparison with their encoded proteins. Harrison PJ, et al. **Neurosci Lett** 1995 Nov 24;200(3):151–4
Developing brain cells produce factors capable of inducing the HT7 antigen, a blood–brain barrier–specific molecule, in chick endothelial cells. Ikeda E, et al. **Neurosci Lett** 1996 May 17;209(3):149–52
Comparable amyloid beta–protein (A beta) 42(43) and A beta 40 deposition in the aged monkey brain. Kanemaru K, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):196–8
Glucose–induced decrease in glutamate levels in ischemic human brain by in–vivo microdialysis. Kanthan R, et al. **Neurosci Lett** 1996 May 17;209(3):207–9
Autoradiographic studies indicate regional variations in the characteristics of L–glutamate transporters in the rat brain. Killinger S, et al. **Neurosci Lett** 1996 Sep 27;216(2):101–4
Expression and localization of insulin–regulatable glucose transporter (GLUT4) in rat brain. Kobayashi M, et al. **Neurosci Lett** 1996 Aug 2;213(2):103–6
Chronic administration of 1–benzyl–1,2,3,4–tetrahydroisoquinoline, an endogenous amine in the brain, induces parkinsonism in a primate. Kotake Y, et al. **Neurosci Lett** 1996 Oct 11;217(1):69–71
Septal vasopressin modulates anxiety–related behaviour in rats. Liebsch G, et al. **Neurosci Lett** 1996 Oct 18; 217(2–3):101–4
Localisation and properties of AMPA–insensitive kainate sites: receptor autoradiography and gene expression in rat brain. Lunn ML, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):121–4
Preferential deposition of amyloid beta protein (Abeta) in the form Abeta40 in Alzheimer's disease is associated with a gene dosage effect of the apolipoprotein E E4 allele. Mann DM, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):81–4
Expression of 9–O–acetylated gangliosides is correlated with tangential cell migration in the rat brain. Mendez–Otero R, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):97–100
The soluble form of Fas molecule is elevated in parkinsonian brain tissues. Mogi M, et al. **Neurosci Lett** 1996 Dec 20; 220(3):195–8
Prolactin binding sites in rat brain and liver: effects of long–term ovariectomy and ovarian steroids. Mustafa A, et al. **Neurosci Lett** 1995 Nov 24;200(3):179–82
Expression of Fos–like immunoreactivity in the brain of quail chick emitting the isolation–induced distress calls. Takeuchi H, et al. **Neurosci Lett** 1996 Dec 20;220(3):191–4
Biochemical evidence for the presence of NAP–22, a novel acidic calmodulin binding protein, in the synaptic vesicles of rat brain. Yamamoto Y, et al. **Neurosci Lett** 1997 Mar 14;224(2):127–30
Properties of the omega–hydroxylation system of docosahexaenoic or arachidonic acid in brain or liver homogenate of rat. Yamane M, et al. **Neurosci Lett** 1995 Nov 24;200(3):203–6
A 27–kDa matrix receptor from rat brain synaptosomes: selective recognition of the Arg–Gly–Asp–Ser domain and unique resistance to calcium–dependent proteolysis. Capaldi D, et al. **Neurosci Res** 1997 Jul;28(3):275–9
[3H]1,3–di(2–tolyl)guanidine and [3H](+)pentazocine binding sites in the rat brain: autoradiographic visualization of the putative sigma1 and sigma2 receptor subtypes. Bouchard P, et al. **Neuroscience** 1997 Jan;76(2):467–77
Quantitative analysis of mu and delta opioid receptor gene expression in rat brain and peripheral ganglia using competitive polymerase chain reaction. Búzás B, et al. **Neuroscience** 1997 Jan;76(2):479–89
Catecholamine enzymes and neuropeptides are expressed in fibres and somata in the intermediate gray matter in chronic spinal rats. Cassam AK, et al. **Neuroscience** 1997 Jun; 78(3):829–41
Immunohistochemical localization of Lyn (p56) protein in the adult rat brain. Chen S, et al. **Neuroscience** 1996 Mar; 71(1):89–100
Expression of agrin in the developing and adult rat brain. Cohen NA, et al. **Neuroscience** 1997 Jan;76(2):581–96
Distribution of Fos immunoreactivity following mating versus anogenital investigation in the male rat brain. Coolen LM, et al. **Neuroscience** 1997 Apr;77(4):1151–61
Effects of cholinergic denervation on seizure development and neurotrophin messenger RNA regulation in rapid hippocampal kindling. Ferencz I, et al. **Neuroscience** 1997 Sep;80(2):389–99
Amphetamine sensitization enhances regional c–fos expression produced by conditioned fear. Hamamura T, et al. **Neuroscience** 1997 Feb;76(4):1097–103
Distribution of calretinin–containing neurons relative to other neurochemically identified cell types in the medial septum of the rat. Kiss J, et al. **Neuroscience** 1997 May; 78(2):399–410
Behavioral and neurochemical dysfunction in the circling (ci) rat: a novel genetic animal model of a movement disorder. Löscher W, et al. **Neuroscience** 1996 Oct;74(4):1135–42
An immunocytochemical study on the distribution of two G–protein–gated inward rectifier potassium channels (GIRK2 and GIRK4) in the adult rat brain. Murer G, et al. **Neuroscience** 1997 Sep;80(2):345–57
Evidence for the co–localization of another connexin with connexin–43 at astrocytic gap junctions in rat brain. Nagy JI, et al. **Neuroscience** 1997 May;78(2):533–48
Differential effects of acute and chronic electroconvulsive shock on the abundance of messenger RNAs for voltage–dependent potassium channel subunits in the rat brain. Pei Q, et al. **Neuroscience** 1997 May;78(2):343–50
Ion homeostasis in brain cells: differences in intracellular ion responses to energy limitation between cultured neurons and glial cells. Silver IA, et al. **Neuroscience** 1997 May; 78(2):589–601
Immunocytochemical detection of the serotonin transporter in rat brain. Sur C, et al. **Neuroscience** 1996 Jul;73(1):217–31
Detailed mapping of the histamine H2 receptor and its gene transcripts in guinea–pig brain. Vizuete ML, et al. **Neuroscience** 1997 Sep;80(2):321–43
Radioligands for PET studies of central 5–HT receptors and re–uptake sites—current status. Pike VW. **Nucl Med Biol** 1995 Nov;22(8):1011–8 (38 ref.)
Isolation and structural elucidation of two pyrokinins from the retrocerebral complex of the American cockroach. Predel R, et al. **Peptides** 1997;18(4):473–8
Inhibition of tumor necrosis factor in the brain suppresses rabbit sleep. Takahashi S, et al. **Pflugers Arch** 1995 Dec;

431(2):155–60
Brain microvessel endothelial cell culture systems. Audus KL, et al. **Pharm Biotechnol** 1996;8:239–58 (61 ref.)
Regional brain patterns of dopamine, metabolites and D2 receptors in memory. Galkina OV, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):453–60
Role of 5-HT1b receptor in the pressure-induced behavioral and neurochemical disorders in rats. Kriem B, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):257–64
Effects of moclobemide on forced-swimming stress and brain monoamine levels in mice. Miura H, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):469–75
Sex and genotype determine the selective activation of neurochemically-distinct mechanisms of swim stress-induced analgesia. Mogil JS, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):61–6
Intracellular transducing mechanisms coupled to brain somatostatin receptors. Florio T, et al. **Pharmacol Res** 1996 Jun;33(6):297–305 (94 ref.)
A new system analysis of motor and locomotor activities associated with a microdialysis study of pressure-induced dopamine increase in rats. Darbin O, et al. **Physiol Behav** 1997 Aug;62(2):367–71
Chronic tryptophan restriction disrupts grooming chain completion in the rat. del Angel-Meza AR, et al. **Physiol Behav** 1996 Jun;59(6):1099–102
Central ANG II receptor involved in carotid sinus reflex resetting in chronically stressed rats. Qian ZM, et al. **Physiol Behav** 1997 Aug;62(2):241–7
Free D-aspartate and D-serine in the mammalian brain and periphery. Hashimoto A, et al. **Prog Neurobiol** 1997 Jul; 52(4):325–53 (351 ref.)
The effects of early postnatal stimulation on Morris water-maze acquisition in adult mice: genetic and maternal factors. Zaharia MD, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):227–39
The significance of glucose turnover in the brain in the pathogenetic mechanisms of Alzheimer's disease. Meier-Ruge W, et al. **Rev Neurosci** 1996 Jan-Mar;7(1):1–19 (207 ref.)
Brain region-specific and time-dependent decreases of G alpha i2 in amygdala-kindled rats. Cutz JC, et al. **Synapse** 1996 Mar;22(3):226–31
Neuropeptide FF receptors in rat brain: a quantitative light-microscopic autoradiographic study using [125I][D.Tyr1, (NMe)Phe3]NPFF. Dupouy V, et al. **Synapse** 1996 Nov;24(3):282–96
Technepine: a high-affinity 99m-technetium probe to label the dopamine transporter in brain by SPECT imaging. Madras BK, et al. **Synapse** 1996 Mar;22(3):239–46
Atypical location of cannabinoid receptors in white matter areas during rat brain development. Romero J, et al. **Synapse** 1997 Jul;26(3):317–23
Thyroid hormone-regulated actin polymerization in brain. Leonard JL, et al. **Thyroid** 1997 Feb;7(1):147–51 (31 ref.)
[The effect of short peptides isolated from the brain of a hibernating suslik on the rat EEG and behavior] Ignat'ev DA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec;46(6):1049–58 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Transcranial magnetic stimulation induces alterations in brain monoamines. Ben-Shachar D, et al. **J Neural Transm** 1997; 104(2–3):191–7
An optimal antigen retrieval method suitable for different antibodies on human brain tissue stored for several years in formaldehyde fixative. Evers P, et al. **J Neurosci Methods** 1997 Apr 4;72(2):197–207

BRAIN CONCUSSION

Psychosomatic, psychiatric and neurological aspects of concussive syndromes in industry. Boshes B. **IMS Ind Med Surg** 1968 Jan;37(1):21–9
[Brain concussion--a case report (letter)] Fosse E. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1190 **(Nor)**

CEREBROSPINAL FLUID

[THe characteristics of the biochemical reactions of the cerebrospinal fluid in victims with gunshot wounds of the skull and brain in relation to treatment outcome] Khil'ko VA, et al. **Vestn Khir Im I I Grek** 1996;155(5):46–9 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Postconcussion syndrome occurs in children. Mittenberg W, et al. **Neuropsychology** 1997 Jul;11(3):447–52 (46 ref.)

COMPLICATIONS

Duration of cognitive dysfunction after concussion, and cognitive dysfunction as a risk factor: a population study of young men. Teasdale TW, et al. **BMJ** 1997 Sep 6; 315(7108):569–72
Akathisia resulting from traumatic brain injury. Silver BV, et al. **Brain Inj** 1996 Aug;10(8):609–14
Brain concussion produces transient hypokalemia in children. Lazar L, et al. **J Pediatr Surg** 1997 Jan;32(1):88–90
Traumatic brainstem deafness with normal brainstem auditory evoked potentials. Hu CJ, et al. **Neurology** 1997 May;48(5):1448–51
Severe rhabdomyolysis with good recovery in a patient with head injury: case report. Chen CM, et al. **Neurosurgery** 1997 Jul;41(1):293–6
Sleep complaints in chronic postconcussion syndrome. Perlis ML, et al. **Percept Mot Skills** 1997 Apr;84(2):595–9
[Effect of thyrotropin-releasing hormone analogue (YM14673) on experimental brain contusion and edema in rats] Zhang JJ, et al. **Yao Hsueh Hsueh Pao** 1996; 31(4):250–3 (Eng. Abstr.) **(Chi)**
[Two cases of delayed posttraumatic vasospasm followed by brain SPECT] Hirano A, et al. **No Shinkei Geka** 1997 May; 25(5):447–53 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Concussive convulsions. Wrong diagnosis may deprive people of their livelihood [letter; comment] Chadwick D. **BMJ** 1997 Apr 26;314(7089):1283. Comment on: BMJ 1997 Jan 18;314(7075):171–4.
Concussive convulsions. Editorial perpetuated myths about convulsive syncope [letter; comment] Stephenson J. **BMJ** 1997 Apr 26;314(7089):1283. Comment on: BMJ 1997 Jan 18;314(7075):171–4.
Postconcussional disorder and loss of consciousness. Anderson SD. **Bull Am Acad Psychiatry Law** 1996; 24(4):493–504 (35 ref.)
Reflections on head injuries in sport and the concussion controversy [editorial] Cantu RC. **Clin J Sport Med** 1997 Apr;7(2):83–4
Differential vulnerability between postconcussion self-report and objective malingering tests in identifying simulated mild head injury. Martin RC, et al. **J Clin Exp Neuropsychol** 1996 Apr;18(2):265–75
Diagnosis and management of concussion in sports. Kelly JP, et al. **Neurology** 1997 Mar;48(3):575–80 (49 ref.)
Standardized assessment of concussion in football players. McCrea M, et al. **Neurology** 1997 Mar;48(3):586–8
Postconcussion symptoms. Gasquoine PG. **Neuropsychol Rev** 1997 Jun;7(2):77–85 (75 ref.)
Neuropsychological functioning and recovery after mild head injury in collegiate athletes. Macciocchi SN, et al. **Neurosurgery** 1996 Sep;39(3):510–4
[Epidemiology, diagnosis and prognosis in the clinical syndrome of brain concussion] Furtak J, et al. **Neurol Neurochir Pol** 1996 Jul-Aug;30(4):625–30 (Eng. Abstr.) **(Pol)**
[Mild closed craniocerebral trauma in patients with chronic vascular diseases] Telengator AIa. **Lik Sprava** 1996 Jul-Sep;(7–9):74–7 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Expression of nitric oxide synthase in the cerebral microvasculature after traumatic brain injury in the rat. Cobbs CS, et al. **Brain Res** 1997 Mar 21;751(2):336–8

EPIDEMIOLOGY

Concussion among Swedish elite ice hockey players. Tegner Y, et al. **Br J Sports Med** 1996 Sep;30(3):251–5
Cognitive outcomes. Bijur PE. **J Dev Behav Pediatr** 1996 Jun;17(3):186
Cognitive outcomes of multiple mild head injuries in children [see comments] Bijur PE, et al. **J Dev Behav Pediatr** 1996 Jun;17(3):143–8. Comment in: J Dev Behav Pediatr 1996 Jun;17(3):183–5.
Epidemiological testing of causal hypotheses: the case of mild head injury [comment] Rutter M. **J Dev Behav Pediatr** 1996 Jun;17(3):183–5. Comment on: J Dev Behav Pediatr 1996 Jun;17(3):143–8.
[Epidemiology, diagnosis and prognosis in the clinical syndrome of brain concussion] Furtak J, et al. **Neurol Neurochir Pol** 1996 Jul-Aug;30(4):625–30 (Eng. Abstr.) **(Pol)**

ETIOLOGY

Retrospective study of concussive convulsions in elite Australian rules and rugby league footballers: phenomenology, aetiology, and outcome [see comments] McCrory PR, et al. **BMJ** 1997 Jan 18;314(7075):171–4. Comment in: BMJ 1997 Jan 18;314(7075):158–9. Comment in: BMJ 1997 Apr 26;314(7089):1283.

METABOLISM

Effects of mild hypothermia on cerebral blood flow-independent changes in cortical extracellular levels of amino acids following contusion trauma in the rat. Koizumi H, et al. **Brain Res** 1997 Feb 7;747(2):304–12
Increase of insulin-like growth factor (IGF)-1, IGF binding protein-2 and -4 mRNAs following cerebral contusion. Sandberg Nordqvist AC, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):285–93
Delayed cytokine expression in rat brain following experimental contusion. Holmin S, et al. **J Neurosurg** 1997 Mar;86(3):493–504

PATHOLOGY

Is calcium accumulation post-injury an indicator of cell damage? Linde R, et al. **Acta Neurochir Suppl (Wien)** 1996; 66:15–20
Traumatically induced axonal damage: evidence for enduring changes in axolemmal permeability with associated cytoskeletal change. Povlishock JT, et al. **Acta Neurochir Suppl (Wien)** 1996;66:81–6
Dexamethasone and colchicine reduce inflammation and delayed oedema following experimental brain contusion. Holmin S, et al. **Acta Neurochir (Wien)** 1996;138(4):418–24
Ultrastructural study of brain microvessels in patients with traumatic cerebral contusions. Vaz R, et al. **Acta Neurochir (Wien)** 1997;139(3):215–20
Mild head injury: neuropathology, sequelae, measurement and recovery. King N. **Br J Clin Psychol** 1997 May;36 (Pt 2):161–84 (125 ref.)
Evaluation of learning and memory dysfunction and histological findings in rats with chronic stage contusion and diffuse axonal injury. Yamaki T, et al. **Brain Res** 1997 Mar 28;752(1–2):151–60
Magnetic resonance imaging and pathologic studies on lateral fluid percussion injury as a model of focal brain injury in rats. Qian L, et al. **Bull Tokyo Med Dent Univ** 1996 Sep;43(3):53–66
Intermediate filament change in astrocytes following mild cortical contusion. Baldwin SA, et al. **Glia** 1996 Mar; 16(3):266–75
A new experimental model of contusion in the rat. Histopathological analysis and temporal patterns of cerebral blood flow disturbances. Mathew P, et al. **J Neurosurg** 1996 Nov;85(5):860–70
Neuronal cell loss in the CA3 subfield of the hippocampus following cortical contusion utilizing the optical disector method for cell counting. Baldwin SA, et al. **J Neurotrauma** 1997 Jun;14(6):385–98
Unusual presentation of colloid cyst of the third ventricle. Williams DJ, et al. **Med Sci Law** 1997 Jul;37(3):254–6
Delayed posttraumatic brain hyperthermia worsens outcome after fluid percussion brain injury: a light and electron microscopic study in rats. Dietrich WD, et al. **Neurosurgery** 1996 Mar;38(3):533–41; discussion 541
Investigation of morphological change of lateral and midline fluid percussion injury in rats, using magnetic resonance imaging. Iwamoto Y, et al. **Neurosurgery** 1997 Jan; 40(1):163–7
[Changes in the cerebral cortex in closed craniocerebral trauma of gunshot origin (experimental research)] Novozhilova AP, et al. **Morfologiia** 1996;110(6):25–31 (Eng. Abstr.) **(Rus)**
[The establishment of the mechanism of craniocerebral trauma by the nature of morphological substrates of brain contusions] Pashinian GA, et al. **Sud Med Ekspert** 1996 Jul-Sep;39(3):5–9 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Brain tissue pO2 in relation to cerebral perfusion pressure, TCD findings and TCD-CO2-reactivity after severe head injury. Dings J, et al. **Acta Neurochir (Wien)** 1996; 138(4):425–34
Visual electrodiagnostic findings in mild traumatic brain injury. Freed S, et al. **Brain Inj** 1997 Jan;11(1):25–36
Fluid percussion brain injury in the developing and adult rat: a comparative study of mortality, morphology, intracranial pressure and mean arterial blood pressure. Prins ML, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):272–82
Auditory evoked potentials in postconcussive syndrome. Drake ME Jr, et al. **Electromyogr Clin Neurophysiol** 1996 Dec;36(8):457–62
Cerebral blood flow and vasoresponsivity within and around cerebral contusions. McLaughlin MR, et al. **J Neurosurg** 1996 Nov;85(5):871–6
Traumatic brainstem deafness with normal brainstem auditory evoked potentials. Hu CJ, et al. **Neurology** 1997 May;48(5):1448–51
Impaired cerebral autoregulation after mild brain injury. Strebel S, et al. **Surg Neurol** 1997 Feb;47(2):128–31
[The orthostatic resistance of the cerebral and peripheral circulations in patients with contusive brain lesions] Anzimirov VL, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr-Jun; (2):20–3 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

A synergistic interaction between dopamine D1 and D2 receptor subtypes in the memory impairments induced by concussive brain injury (CBI) in mice. Tang YP, et al. **Behav Brain Res** 1997 Feb;83(1–2):189–93
(+)-Eburnamenine-14-carboxylic acid (2-nitroxyethyl) ester (VA-045), a putative cognitive enhancer, facilitates recovery from concussive brain injury-induced learning and memory impairments in mice. Tang YP, et al. **Behav Brain Res** 1997 Feb;83(1–2):195–9
Evaluation of learning and memory dysfunction and histological findings in rats with chronic stage contusion and diffuse axonal injury. Yamaki T, et al. **Brain Res** 1997 Mar 28;752(1–2):151–60
The postconcussional syndrome: a rose by any other name [editorial] McClelland RJ. **J Psychosom Res** 1996 Jun; 40(6):563–8 (41 ref.)
[Psychiatric sequelae of craniocerebral trauma--a review of the literature] Supprian T, et al. **Psychiatr Prax** 1996 Jul; 23(4):161–7 (73 ref.) (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Tc-HMPAO SPECT in persistent post-concussion syndrome after mild head injury: comparison with MRI/CT. Kant

BRAIN CONCUSSION

R, et al. **Brain Inj** 1997 Feb;11(2):115–24

SURGERY

The place of decompressive surgery in the treatment of uncontrollable post–traumatic intracranial hypertension in children. Dam Hieu P, et al. **Childs Nerv Syst** 1996 May; 12(5):270–5

Cerebellar mutism in children: report of six cases and potential mechanisms. Koh S, et al. **Pediatr Neurol** 1997 Apr;16(3):218–9

Decompressive craniotomy for acute shaken/impact baby syndrome. Cho DY, et al. **Pediatr Neurosurg** 1995; 23(4):192–8

[Craniocerebral trauma in acute surgical management. Primary care in a general community hospital] Friedl W, et al. **Chirurg** 1996 Nov;67(11):1107–13 (Eng. Abstr.) **(Ger)**

THERAPY

Were you knocked out? A team physician's approach to initial concussion management. McCrory PR. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S207–12 (55 ref.)

Practice parameter: the management of concussion in sports (summary statement). Report of the Quality Standards Subcommittee. **Neurology** 1997 Mar;48(3):581–5

Weak, but complex pulsed magnetic fields may reduce depression following traumatic brain injury. Baker–Price LA, et al. **Percept Mot Skills** 1996 Oct;83(2):491–8

[Therapy–induced subdural hygroma] Dietrich J, et al. **Rontgenpraxis** 1996 Aug;49(8):210–2 **(Ger)**

BRAIN DAMAGE, CHRONIC

Developmental disorders. **Curr Opin Neurol** 1997 Apr; 10(2):B41–53

["Phineas Gage is put in prison in Sweden". Criminals with brain damage should be treated in forensic psychiatric institutions] Lidberg L, et al. **Lakartidningen** 1996 Sep 18; 93(38):3251 **(Swe)**

CEREBROSPINAL FLUID

Neuron–specific enolase as an aid to outcome prediction in head injury. Ross SA, et al. **Br J Neurosurg** 1996 Oct; 10(5):471–6

CHEMICALLY INDUCED

MR in trichloroethane poisoning. del Amo M, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1180–2

Cortical hyperintensity on proton density–weighted images: An MR sign of cyclosporine–related encephalopathy. Jansen O, et al. **AJNR Am J Neuroradiol** 1996 Feb; 17(2):337–44

Commentary on "Encephalopathy associated with rapid decrease of high levels of lithium" [comment] Swartz CM. **Ann Clin Psychiatry** 1996 Jun;8(2):111–2. Comment on: Ann Clin Psychiatry 1995 Dec;7(4):207–9.

Cannabis and the brain [see comments] Castle DJ, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):179–83 (28 ref.). Comment in: Aust N Z J Psychiatry 1997 Apr;31(2):304–5.

Chronic elemental mercury intoxication: neuropsychological follow–up case study. Hua MS, et al. **Brain Inj** 1996 May; 10(5):377–84

Multifocal brain damage induced by phencyclidine is augmented by pilocarpine. Corso TD, et al. **Brain Res** 1997 Mar 28;752(1–2):1–14

Low–dose vigabatrin (gamma–vinyl GABA)–induced damage in the immature rat brain. Sidhu RS, et al. **Exp Neurol** 1997 Apr;144(2):400–5

[Attempted suicide with antidiabetic drugs. Prognosis determination of hypoxic–ischemic brain damage] von Albert HH, et al. **Fortschr Med** 1996 Feb 10;114(4):25–30 **(Ger)**

[Hypoxic brain damage after carbon monoxide poisoning. Visual agnosia, reduced initiative and memory and delayed sequelae] Tvedt B, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):3005–8 (Eng. Abstr.) **(Nor)**

CLASSIFICATION

A classification scheme for malformations of cortical development. Barkovich AJ, et al. **Neuropediatrics** 1996 Apr;27(2):59–63 (53 ref.)

A taxonomy of neurobehavioral functions applied to neuropsychological assessment after head injury. Parker RS. **Neuropsychol Rev** 1996 Sep;6(3):135–70

COMPLICATIONS

Subject review on head injury and sexual dysfunction [letter; comment] Zasler ND. **Brain Inj** 1997 May;11(5):389–90 (4 ref.). Comment on: Brain Inj 1996 Oct;10(10):703–17.

Connectionist modeling of the recovery of language functions following brain damage. Harley TA. **Brain Lang** 1996 Jan; 52(1):7–24 (71 ref.)

Relearning after damage in connectionist networks: toward a theory of rehabilitation. Plaut DC. **Brain Lang** 1996 Jan; 52(1):25–82

Neurogenic diabetes insipidus in children with hypoxic encephalopathy: six new cases and a review of the literature. Lee YJ, et al. **Eur J Pediatr** 1996 Mar; 155(3):245–8 (22 ref.)

Squints and diplopia seen after brain damage. Fowler MS, et al. **J Neurol** 1996 Jan;243(1):86–90

Developmental neuropathology and impact of perinatal brain damage. I: Hemorrhagic lesions of neocortex. Marín–Padilla M. **J Neuropathol Exp Neurol** 1996 Jul; 55(7):758–73

Comments on Mayes and Downes: "What do theories of the functional deficit(s) underlying amnesia have to explain?". Kopelman MD. **Memory** 1997 Jan–Mar;5(1–2):105–14

Theories of organic amnesia [editorial] Mayes A, et al. **Memory** 1997 Jan–Mar;5(1–2):1–2

What do theories of the functional deficit(s) underlying amnesia have to explain? Mayes AR, et al. **Memory** 1997 Jan–Mar;5(1–2):3–36 (87 ref.)

[The clinical study of the first febrile convulsion in children with brain–damage] Asoh M. **No To Hattatsu** 1997 May; 29(3):227–33 (Eng. Abstr.) **(Jpn)**

CONGENITAL

Congenital supratentorial arachnoidal and giant cysts in children: a clinical study with arguments for a conservative approach. Sommer IE, et al. **Childs Nerv Syst** 1997 Jan; 13(1):8–12

Severe seizures in young children are associated with hippocampal neuron losses and aberrant mossy fiber sprouting during fascia dentata postnatal development. Mathern GW, et al. **Epilepsy Res Suppl** 1996;12:33–43

Arteriovenous malformation of the vein of Galen in three neonates: emphasis on associated early ischaemic brain damage. de Koning TJ, et al. **Eur J Pediatr** 1997 Mar; 156(3):228–9

Cerebellar hypoplasia and frontal lobe cognitive deficits in disorders of early childhood. Ciesielski KT, et al. **Neuropsychologia** 1997 May;35(5):643–55

DIAGNOSIS

Neuropsychological function in patients with increased serum levels of protein S–100 after minor head injury. Waterloo K, et al. **Acta Neurochir (Wien)** 1997;139(1):26–31; discussion 31–2

Structural consequences of status epilepticus demonstrated with serial magnetic resonance imaging. Meierkord H, et al. **Acta Neurol Scand** 1997 Sep;96(3):127–32

Use of brain lactate levels to predict outcome after perinatal asphyxia. Leth H, et al. **Acta Paediatr** 1996 Jul;85(7):859–64

Magnetic resonance imaging in children with neonatal asphyxia: correlation with developmental sequelae. Yokochi K, et al. **Acta Paediatr** 1996 Jan;85(1):88–95

Hippocampal volume in normal aging and traumatic brain injury [see comments] Bigler ED, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):11–23. Comment in: AJNR Am J Neuroradiol 1997 Jan;18(1):25–8.

MR–based brain and cerebrospinal fluid measurement after traumatic brain injury: correlation with neuropsychological outcome. Blatter DD, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):1–10

Intracranial abnormalities in infants treated with extracorporeal membrane oxygenation: update on sonographic and CT findings. Bulas DI, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):287–94

Medial temporal lobe volumetrics in traumatic brain injury [comment] Jack CR Jr. **AJNR Am J Neuroradiol** 1997 Jan; 18(1):25–8. Comment on: AJNR Am J Neuroradiol 1997 Jan;18(1):11–23.

Single–photon emission CT and MR findings in Klüver–Bucy syndrome after Reye syndrome. Ozawa H, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):540–2

MR and cerebrospinal fluid enzymes as sensitive indicators of subclinical cerebral injury after open–heart valve replacement surgery. Steinberg GK, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):205–12; discussion 213–5

Pathological laughing and crying. Dark FL, et al. **Aust N Z J Psychiatry** 1996 Aug;30(4):472–9 (46 ref.)

The California Card Sorting Test may dissociate verbal and non–verbal concept formation abilities. Crouch JA, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):431–4

Factorial structure of the Wisconsin Card Sorting Test. Greve KW, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):283–5

Adaptation to cognitive deficit? An exploration of apparent dissociations between everyday memory and test performance late after stroke. Sunderland A, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):463–76

A note of caution for clinicians using the Paced Auditory Serial Addition Task. Ward T. **Br J Clin Psychol** 1997 May; 36 (Pt 2):303–7

The significance of body part as tool errors in limb apraxia. Raymer AM, et al. **Brain Cogn** 1997 Jul;34(2):287–92

The malingering of multiple sclerosis and mild traumatic brain injury. Klimczak NJ, et al. **Brain Inj** 1997 May; 11(5):343–52

Reliability of early motor function testing in persons following severe traumatic brain injury. Swaine BR, et al. **Brain Inj** 1996 Apr;10(4):263–76

Assessment of pragmatic communication skills in adolescents after traumatic brain injury. Turkstra LS, et al. **Brain Inj** 1996 May;10(5):329–45

Psychiatric disorders after traumatic brain injury. van Reekum R, et al. **Brain Inj** 1996 May;10(5):319–27

Age and recovery from brain injury: clinical opinions and experimental evidence. Webb C, et al. **Brain Inj** 1996 Apr; 10(4):303–10

Cognitive functioning of adult survivors of cerebral hypoxia. Wilson BA. **Brain Inj** 1996 Dec;10(12):863–74

Postconcussional disorder and loss of consciousness. Anderson SD. **Bull Am Acad Psychiatry Law** 1996; 24(4):493–504 (35 ref.)

Effects of cardiac surgery on intellectual function in infants and children. Haneda K, et al. **Cardiovasc Surg** 1996 Jun; 4(3):303–7

Outcome of pediatric patients with severe brain injury in Korea: a comparison with reports in the west. Song SH, et al. **Childs Nerv Syst** 1997 Feb;13(2):82–6

Neuropsychological sequelae after treatment for medulloblastoma in childhood—the Taiwan experience. Yang TF, et al. **Childs Nerv Syst** 1997 Feb;13(2):77–80; discussion 81

Different neurologic outcomes in two patients with neonatal hyperinsulinemic hypoglycemia. Zammarchi E, et al. **Childs Nerv Syst** 1996 Jul;12(7):413–6

Personal versus extrapersonal neglect: a group study of their dissociation using a reliable clinical test. Beschin N, et al. **Cortex** 1997 Jun;33(2):379–84

Unilateral neglect and space constancy during passive locomotion. Bisiach E, et al. **Cortex** 1997 Jun;33(2):313–22

Cerebral pathways for calculation: double dissociation between rote verbal and quantitative knowledge of arithmetic. Dehaene S, et al. **Cortex** 1997 Jun;33(2):219–50

Autonomic and recognition indices of memory in amnesic and healthy control subjects. Diamond BJ, et al. **Cortex** 1996 Sep;32(3):439–59

Deficits in delayed memory following cerebral malaria: a case study. Grote CL, et al. **Cortex** 1997 Jun;33(2):385–8

Semantic memory following pediatric head injury: relationship to age, severity of injury, and MRI. Levin HS, et al. **Cortex** 1996 Sep;32(3):461–78

The relationship between retrograde and anterograde amnesia in patients with typical global amnesia. Mayes AR, et al. **Cortex** 1997 Jun;33(2):197–217

A predictive parameter in patients with brain related complications after cardiac surgery? Isgro F, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):640–4

EEG changes during cardiopulmonary bypass surgery and postoperative neuropsychological deficit: the effect of bubble and membrane oxygenators. Toner I, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):312–9

Short–term and long–term neuropsychological consequences of cardiac surgery with extracorporeal circulation. Vingerhoets G, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):424–31

Intracranial germ–cell tumours—treatment results and residuals. Haupt C, et al. **Eur J Pediatr** 1996 Mar; 155(3):230–6

Long–term follow up of children with head injuries–classified as "good recovery" using the Glasgow Outcome Scale: neurological, neuropsychological and magnetic resonance imaging results. Koelfen W, et al. **Eur J Pediatr** 1997 Mar; 156(3):230–5

Cognitive neuropsychology and its application to children. Temple CM. **J Child Psychol Psychiatry** 1997 Jan; 38(1):27–52 (170 ref.)

Differential vulnerability between postconcussion self–report and objective malingering tests in identifying simulated mild head injury. Martin RC, et al. **J Clin Exp Neuropsychol** 1996 Apr;18(2):265–75

Electroencephalographic abnormalities in liver transplant recipients: practical considerations and review. Steg RE, et al. **J Clin Neurophysiol** 1996 Jan;13(1):60–8 (30 ref.)

Utility of the Barona demographic equations to estimate premorbid intelligence: information from the WAIS–R standardization sample. Paolo AM, et al. **J Clin Psychol** 1996 May;52(3):335–43

Developmental outcome of very low birth weight infants at four years of age as a function of biological risk and psychosocial risk. Thompson RJ Jr, et al. **J Dev Behav Pediatr** 1997 Apr;18(2):91–6

Childhood bacterial meningitis: impact of age at illness and acute medical complications on long term outcome. Anderson V, et al. **J Int Neuropsychol Soc** 1997 Mar; 3(2):147–58

Performance characteristics of chronic schizophrenia on attention tests sensitive to unilateral brain damage. Mizuno M, et al. **J Nerv Ment Dis** 1997 Jul;185(7):427–33

Oculogyric crisis and abnormal magnetic resonance imaging signals in bilateral lentiform nuclei. Kim JS, et al. **Mov Disord** 1996 Nov;11(6):756–8

The clinical features and prognosis of chronic posthypoxic myoclonus. Werhahn KJ, et al. **Mov Disord** 1997 Mar; 12(2):216–20

Localized proton magnetic resonance spectroscopy of cerebral metabolites. Frahm J, et al. **Neuropediatrics** 1996 Apr;27(2):64–9 (30 ref.)

The Halstead Category Test: a fifty year perspective. Choca JP, et al. **Neuropsychol Rev** 1997 Jun;7(2):61–75 (230 ref.)

Postconcussion symptoms. Gasquoine PG. **Neuropsychol Rev** 1997 Jun;7(2):77–85 (75 ref.)

Gunshot wounds to the head in civilian practice [letter; comment] Apostolides PJ, et al. **Neurosurgery** 1996 Jul; 39(1):210–1. Comment on: Neurosurgery 1995 Dec;37(6):1104–10; discussion 1110–2.

Magnetoencephalographic mapping: basic of a new functional risk profile in the selection of patients with

cortical brain lesions. Hund M, et al. **Neurosurgery** 1997 May;40(5):936–42; discussion 942–3

Magnetic resonance imaging in relation to functional outcome of pediatric closed head injury: a test of the Ommaya–Gennarelli model. Levin HS, et al. **Neurosurgery** 1997 Mar;40(3):432–40; discussion 440–1

Neuropsychological functioning and recovery after mild head injury in collegiate athletes. Macciocchi SN, et al. **Neurosurgery** 1996 Sep;39(3):510–4

Acquired hemidystonia in childhood: a clinical and neuroradiological study of thirteen patients. Nardocci N, et al. **Pediatr Neurol** 1996 Sep;15(2):108–13

The many faces of acquired neurologic mutism in childhood. van Mourik M, et al. **Pediatr Neurol** 1996 Nov;15(4):352–7

Long-term outcome in infants with the shaking-impact syndrome. Duhaime AC, et al. **Pediatr Neurosurg** 1996 Jun; 24(6):292–8

Role of apnea in nonaccidental head injury. Johnson DL, et al. **Pediatr Neurosurg** 1995;23(6):305–10

The prognostic value of the Glasgow Coma Scale, hypoxia and computerised tomography in outcome prediction of pediatric head injury. Ong L, et al. **Pediatr Neurosurg** 1996 Jun;24(6):285–91

Speech–Sounds Perception Test: analysis of error types in normal and diffusely brain-damaged patients. Charter RA, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1507–10

Role of neuropsychology in evaluation of heart transplant recipients. Davis JM, et al. **Percept Mot Skills** 1996 Jun; 82(3 Pt 1):744–6

Order effects in the administration of a forced-choice procedure for detection of malingering in disability claimants' evaluations. Guilmette TJ, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):1007–16

Syntactic abilities of neurologically normal and suspect preterm children. Holdgrafer G. **Percept Mot Skills** 1996 Oct;83(2):615–8

Factor analysis of the Intermediate Category Test. Livingston RB, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):851–5

An "ecological" constructional test. Trojano L, et al. **Percept Mot Skills** 1997 Aug;85(1):51–7

Left cerebral hemiatrophy and schizophrenia-like psychosis in an adolescent. Honer WG, et al. **Schizophr Res** 1996 May;20(1–2):231–4

[Scoring and validation of the Clock Face Test in psychometric assessment of elderly subjects] Montani C, et al. **Encephale** 1997 May–Jun;23(3):194–9 (Eng. Abstr.) **(Fre)**

[The contribution of neuropsychology to psychiatry] Zihl J. **Fortschr Neurol Psychiatr** 1996 Oct;64(10):403–17 (172 ref.) (Eng. Abstr.) **(Ger)**

[Early auditory evoked potential. A diagnostic parameter in uremic encephalopathy] Balzer S, et al. **HNO** 1996 Oct; 44(10):559–66 (Eng. Abstr.) **(Ger)**

[Munster Heidelberg Abilities Scale—a measuring instrument for global comparison of illness sequelae] Wolff JE, et al. **Klin Padiatr** 1996 Sep–Oct;208(5):294–8 (Eng. Abstr.) **(Ger)**

[Prognosis of polytrauma patients with severe craniocerebral trauma during the critical care phase] Lehmann U, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:340–1 (Eng. Abstr.) **(Ger)**

[Significance of impartial assessment of geriatric brain diseases] Spiegel R. **Ther Umsch** 1997 Jun;54(6):314–20 (15 ref.) (Eng. Abstr.) **(Ger)**

[Functional, neuropsychological and social outcome of polytrauma patients with severe craniocerebral trauma] Lehmann U, et al. **Unfallchirurg** 1997 Jul;100(7):552–60 (Eng. Abstr.) **(Ger)**

[Primary traumatic midbrain syndrome—follow-up and prognosis of acute primary brain stem damage] Stein H, et al. **Zentralbl Chir** 1996;121(11):985–9 (Eng. Abstr.) **(Ger)**

[Pathogenesis and prognosis of neonatal brain damage: introductory remarks] Nakamura H, et al. **No To Hattatsu** 1996 Mar;28(2):109–10 (Eng. Abstr.) **(Jpn)**

[Delayed symptoms of hypoxic brain damage after temporary improvement] Tvedt B, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):3009–10 (Eng. Abstr.) **(Nor)**

DRUG THERAPY

Amelioration by cyclosporin A of brain damage following 5 or 10 min of ischemia in rats subjected to preischemic hyperglycemia. Li PA, et al. **Brain Res** 1997 Apr 4; 753(1):133–40

Serotonergic agents in the treatment of hypothalamic obesity syndrome: a case report. Jordaan GP, et al. **Int J Eat Disord** 1996 Jul;20(1):111–3

MK-801 augments pilocarpine-induced electrographic seizure but protects against brain damage in rats. Lee MG, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb;21(2):331–44

EMBRYOLOGY

Behavioral consequences of abnormal cortical development: insights into developmental disabilities. Berger-Sweeney J, et al. **Behav Brain Res** 1997 Jul;86(2):121–42 (244 ref.)

[Maternal environment and developmental brain damages] Tanaka H. **No To Hattatsu** 1997 May;29(3):183–9 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Prevalence of speaking and hearing disabilities among adults with traumatic brain injury from a national household survey. Lubinski R, et al. **Brain Inj** 1997 Feb;11(2):103–14

The prevalence of agitation and brain injury in skilled nursing facilities: a survey. Wolf AP, et al. **Brain Inj** 1996 Apr; 10(4):241–5

A re-examination of the sex ratios of families with a neurodevelopmentally disordered child [comment] Flannery KA, et al. **J Child Psychol Psychiatry** 1996 Jul; 37(5):621–3. Comment on: J Child Psychol Psychiatry 1996 Jul;37(5):619.

Debate and argument: the sex ratio of the sibs of neurodevelopmentally disordered children [comment] [see comments] James WH. **J Child Psychol Psychiatry** 1996 Jul;37(5):619. Comment on: J Child Psychol Psychiatry 1995 Mar;36(3):511–7. Comment in: J Child Psychol Psychiatry 1996 Jul;37(5):621–3.

Cognitive outcomes of multiple mild head injuries in children [see comments] Bijur PE, et al. **J Dev Behav Pediatr** 1996 Jun;17(3):143–8. Comment in: J Dev Behav Pediatr 1996 Jun;17(3):183–5.

Cognitive outcomes. Bijur PE. **J Dev Behav Pediatr** 1996 Jun;17(3):186

Epidemiological testing of causal hypotheses: the case of mild head injury [comment] Rutter M. **J Dev Behav Pediatr** 1996 Jun;17(3):183–5. Comment on: J Dev Behav Pediatr 1996 Jun;17(3):143–8.

Incidence of head injury: lasting effects among college students and working adults in the general population. Triplett G, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1344–6

[Epidemiology of neonatal brain damage] Nakamura H. **No To Hattatsu** 1996 Mar;28(2):111–7 (Eng. Abstr.) **(Jpn)**

ETHNOLOGY

A cross-cultural study on impaired self-awareness in Japanese patients with brain dysfunction. Prigatano GP, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr;10(2):135–43

ETIOLOGY

Brain damage in divers. Cross sectional studies are inconclusive, longitudinal studies are more appropriate [letter; comment] Broome JR, et al. **BMJ** 1997 Jun 14; 314(7096):1761; discussion 1761–2. Comment on: BMJ 1997 Mar 8;314(7082):689–90. Comment on: BMJ 1997 Mar 8;314(7082):701–5.

Brain damage in divers. The risk has been underestimated [letter; comment] Yates PO. **BMJ** 1997 Jun 14; 314(7096):1761; discussion 1761–2. Comment on: BMJ 1997 Mar 8;314(7082):689–90. Comment on: BMJ 1997 Mar 8;314(7082):701–5.

Surgical management of type A aortic dissection: evaluation of predisposing factors for postoperative neurologic complication and late reoperation. Ahn H, et al. **Cardiovasc Surg** 1997 Feb;5(1):104–11

Neuropsychiatric disorders in cancer patients. Baile WF. **Curr Opin Oncol** 1996 May;8(3):182–7 (31 ref.)

Predictive factors for postoperative cerebral complications in patients with thoracic aortic aneurysm. Okita Y, et al. **Eur J Cardiothorac Surg** 1996;10(10):826–32

Surgery of the thoracic aorta using deep hypothermic total circulatory arrest. Are there neurological consequences other than frank cerebral defects? Welz A, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):650–6

Neurological sequelae of the dancing eye syndrome. Pohl KR, et al. **Eur J Pediatr** 1996 Mar;155(3):237–44

Obstetrical suboptimality in autistic children: an Italian sample [letter] Zambrino CA, et al. **J Autism Dev Disord** 1997 Aug;27(4):493–4

Chronic nicotine treatment enhances focal ischemic brain injury and depletes free pool of brain microvascular tissue plasminogen activator in rats. Wang L, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):136–46

Increased susceptibility to ischemic brain damage in transgenic mice overexpressing the amyloid precursor protein. Zhang F, et al. **J Neurosci** 1997 Oct 15; 17(20):7655–61

Correlation between venous stump pressure and brain damage after cortical vein occlusion: an experimental study. Yoshimoto Y, et al. **J Neurosurg** 1997 Apr;86(4):694–8

The spinal cord lesion in human fetuses with myelomeningocele: implications for fetal surgery. Meuli M, et al. **J Pediatr Surg** 1997 Mar;32(3):448–52

First Alfred Meyer Memorial Lecture. Epileptic brain damage: a consequence and a cause of seizures. Meldrum BS. **Neuropathol Appl Neurobiol** 1997 Jun;23(3):185–201; discussion 201–2 (191 ref.)

Neuropsychologic late effects in children with malignant brain tumors treated with surgery, radiotherapy and "8 in 1" chemotherapy. Ilveskoski I, et al. **Neuropediatrics** 1996 Jun;27(3):124–9

Surgical and neurological complications in a series of 708 epilepsy surgery procedures. Behrens E, et al. **Neurosurgery** 1997 Jul;41(1):1–9; discussion 9–10

Cerebellar abscess: the significance of cerebrospinal fluid diversion. Nadvi SS, et al. **Neurosurgery** 1997 Jul; 41(1):61–6; discussion 66–7

Lennox-Gastaut syndrome associated with leukoencephalopathy. Mitsufuji N, et al. **Pediatr Neurol** 1996 Jul;15(1):63–5

Reperfusion injury as the mechanism of brain damage after perinatal asphyxia. Fellman V, et al. **Pediatr Res** 1997 May; 41(5):599–606 (138 ref.)

Do obstetric complications cause the earlier age at onset in male than female schizophrenics? Kirov G, et al. **Schizophr Res** 1996 May;20(1–2):117–24

[Perinatally-induced hypoxic-ischemic encephalopathy? Possibilities of retrospective evaluation from the neuropediatric viewpoint] Niemann G, et al. **Z Geburtshilfe Neonatol** 1996 Sep–Oct;200(5):202–5 (31 ref.) (Eng. Abstr.) **(Ger)**

[Hypoxic-ischemic brain damage in the newborn (editorial)] Zanardo V, et al. **Pediatr Med Chir** 1997 Jan–Feb;19(1):1–2 (Eng. Abstr.) **(Ita)**

[Pathogenesis and prognosis of neonatal brain damage: introductory remarks] Nakamura H, et al. **No To Hattatsu** 1996 Mar;28(2):109–10 (Eng. Abstr.) **(Jpn)**

[Analysis of neuropsychological disorders in toxic brain damage resulting from carbon monoxide poisoning] Kazalska T, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:115–21 (Eng. Abstr.) **(Pol)**

GENETICS

Apoptosis in focal cerebral ischemia. Chopp M, et al. **Acta Neurochir Suppl (Wien)** 1996;66:21–6 (43 ref.)

Molecular mechanisms of acidosis-mediated damage. Siesjö BK, et al. **Acta Neurochir Suppl (Wien)** 1996;66:8–14 (66 ref.)

Severity of alcohol dependence and its relationship to neurological soft signs, neuropsychological impairment and family history. Keenan E, et al. **Acta Psychiatr Scand** 1997 Apr;95(4):272–6

Metabolic disorders and neurotoxicology. **Curr Opin Neurol** 1996 Dec;9(6):B149–58

Linking molecular biology to clinical advances in developmental neurology [editorial] Percy AK. **Curr Opin Neurol** 1997 Apr;10(2):129–30

Apolipoprotein E polymorphism and silent microangiopathy-related cerebral damage. Results of the Austrian Stroke Prevention Study. Schmidt R, et al. **Stroke** 1997 May;28(5):951–6

[PEHO syndrome (progressive encephalopathy, edema, hypsarrhythmia. optic atrophy)] Hollódy K, et al. **Orv Hetil** 1997 Feb 16;138(7):425–8 (7 ref.) (Eng. Abstr.) **(Hun)**

HISTORY

La Peyronie and the experimental search for the seat of the soul: neuropsychological methodology in the eigh.eenth century. Kaitaro T. **Cortex** 1996 Sep;32(3):557–64

IMMUNOLOGY

Expression of microglial markers in the human CNS after closed head injury. Engel S, et al. **Acta Neurochir Suppl (Wien)** 1996;66:89–95

Significance of the inflammatory response in brain ischemia. Hallenbeck JM. **Acta Neurochir Suppl (Wien)** 1996;66:27–31 (28 ref.)

Inflammation of the brain after ischemia. Kogure K et al. **Acta Neurochir Suppl (Wien)** 1996;66:40–3 (14 ref.)

Leukocytes, macrophages and secondary brain damage following cerebral ischemia. Tomita M, et al. **Acta Neurochir Suppl (Wien)** 1996;66:32–9 (58 ref.)

METABOLISM

Alcohol, alcoholic brain damage, and GABAA receptor isoform gene expression. Lewohl JM, et al. **Neurochem Int** 1996 Dec;29(6):677–84

PATHOLOGY

Extended studies on the effect of glutamate antagonists on ischemic CA-1 damage. Diemer NH, et al. **Acta Neurochir Suppl (Wien)** 1996;66:73–5

Altered beta-APP metabolism after head injury and its relationship to the aetiology of Alzheimer's disease. Graham DI, et al. **Acta Neurochir Suppl (Wien)** 1996; 66:96–102 (53 ref.)

Neuroprotective efficacy of microvascularly-localized versus brain-penetrating antioxidants. Hall ED, et al. **Acta Neurochir Suppl (Wien)** 1996;66:107–13 (23 ref.)

Is calcium accumulation post-injury an indicator of cell damage? Linde R, et al. **Acta Neurochir Suppl (Wien)** 1996; 66:15–20

Traumatically induced axonal damage: evidence for enduring changes in axolemmal permeability with associated cytoskeletal change. Povlishock JT, et al. **Acta Neurochir Suppl (Wien)** 1996;66:81–6

Neuropathology in non-human immunodeficiency virus-infected drug addicts: hypoxic brain damage after chronic intravenous drug abuse. Oehmichen M, et al. **Acta Neuropathol (Berl)** 1996;91(6):642–6

Hypoxic-ischaemic encephalopathy: MRI findings [letter; comment] Pilling D, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F78–9. Comment on: Arch Dis Child Fetal Neonatal Ed 1996 Nov;75(3):F145–51.

Mild head injury: neuropathology, sequelae, measurement and recovery. King N. **Br J Clin Psychol** 1997 May;36 (Pt 2):161–84 (125 ref.)

Light and electron microscope study of nerve cells in traumatic oedematous human cerebral cortex. Castejón OJ, et al. **Brain Inj** 1997 May;11(5):363–88

False recognition of unfamiliar faces following right hemisphere damage: neuropsychological and anatomical observations. Rapcsak SZ, et al. **Cortex** 1996 Dec; 32(4):593–611

Structural impairment of hippocampal neurons following a single epileptic afterdischarge. Horváth Z, et al. **Epilepsy Res Suppl** 1996;12:325–34

Laminar damage of neurons and astrocytes in neocortex and hippocampus of rat after long-lasting status epilepticus induced by pilocarpine. Schmidt-Kastner R, et al. **Epilepsy Res Suppl** 1996;12:309–16

The relationship between seizures and damage in the maturing brain. Sperber EF. **Epilepsy Res Suppl** 1996; 12:365–76

Primary sensory and forebrain motor systems in the newborn brain are preferentially damaged by hypoxia-ischemia. Martin LJ, et al. **J Comp Neurol** 1997 Jan 13;377(2):262–85

Developmental neuropathology and impact of perinatal brain damage. II: white matter lesions of the neocortex. Marín-Padilla M. **J Neuropathol Exp Neurol** 1997 Mar; 56(3):219–35 (52 ref.)

Frequency of neuropathology in a brain bank from a long-term, domiciliary population. Healy DJ, et al. **J Psychiatr Res** 1996 Jan–Feb;30(1):45–9

Long-term evaluation of radiation-induced brain damage by serial magnetic resonance imaging. Kato T, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):870–5; discussion 876

Delayed posttraumatic brain hyperthermia worsens outcome after fluid percussion brain injury: a light and electron microscopic study in rats. Dietrich WD, et al. **Neurosurgery** 1996 Mar;38(3):533–41; discussion 541

Dementia pugilistica in an alcoholic achondroplastic dwarf. Williams DJ, et al. **Pathology** 1996 Jan;28(1):102–4

PHYSIOPATHOLOGY

Fetal neocortical grafts placed in brain infarcts do not improve paw-reaching deficits in adult spontaneously hypertensive rats. Grabowski M, et al. **Acta Neurochir Suppl (Wien)** 1996;66:68–72

Environmental influence on outcome after experiment brain infarction. Johansson BB. **Acta Neurochir Suppl (Wien)** 1996;66:63–7

Origins of glutamate release in ischaemia. Obrenovitch TP. **Acta Neurochir Suppl (Wien)** 1996;66:50–5 (49 ref.)

Swelling, intracellular acidosis, and damage of glial cells. Staub F, et al. **Acta Neurochir Suppl (Wien)** 1996;66:56–62

Recovery of language after brain damage. Karbe H, et al. **Adv Neurol** 1997;73:347–58 (46 ref.)

Neurometabolism of active neuropsychiatric lupus determined with proton MR spectroscopy. Sibbitt WL Jr, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1271–7

Binge ethanol-induced brain damage in rats: effect of inhibitors of nitric oxide synthase. Zou JY, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1406–11

Heart rate variability during artificial ventilation and apnea in brain-damaged rabbits. Kawamoto M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H410–6

Auditory-evoked response morphology in profoundly-involved multi-handicapped children: comparisons with normal infants and children. Cottrell G, et al. **Audiology** 1995 Jul–Aug;34(4):189–206

Impaired recognition memory in patients with lesions limited to the hippocampal formation. Reed JM, et al. **Behav Neurosci** 1997 Aug;111(4):667–75

Effect of stimulus number, target-to-distractor ratio, and motor speed on visual spatial search quality following traumatic brain injury. Geldmacher DS, et al. **Brain Inj** 1997 Jan;11(1):59–66

Reliability for a walk/run test to estimate aerobic capacity in a brain-injured population. Vitale AE, et al. **Brain Inj** 1997 Jan;11(1):67–76

On the status of object concepts in aphasia. Chertkow H, et al. **Brain Lang** 1997 Jun 15;58(2):203–32

Interaction between tone and intonation in Thai after unilateral brain damage. Gandour J, et al. **Brain Lang** 1997 Jun 1;58(1):174–96

Categorical and dimensional decoding of emotional intonations in patients with focal brain lesions. Peper M, et al. **Brain Lang** 1997 Jun 15;58(2):233–64

Ideomotor apraxia: behavioral dimensions and neuroanatomical basis. Schnider A, et al. **Brain Lang** 1997 Jun 1;58(1):125–36

Neonatal insult to the hippocampal region and schizophrenia: a review and a putative animal model. Beauregard M, et al. **Can J Psychiatry** 1996 Sep;41(7):446–56 (145 ref.)

The novelty effect in recovered hemineglect. Bartolomeo P. **Cortex** 1997 Jun;33(2):323–32

Eye movement patterns in reading as a function of visual field defects and contrast sensitivity loss. De Luca M, et al. **Cortex** 1996 Sep;32(3):491–502

On crossed apraxia. Description of a right-handed apraxic patient with right supplementary motor area damage. Marchetti C, et al. **Cortex** 1997 Jun;33(2):341–54

Visual event-related brain potentials in 4-month-old infants at risk for neurodevelopmental impairments. deRegnier RA, et al. **Dev Psychobiol** 1997 Jan;30(1):11–28

Physiological properties of immature neocortical neurons relevant to pathophysiology of infantile epileptic encephalopathies. Avanzini G, et al. **Epilepsy Res Suppl** 1996;12:53–61

Excitability changes in thalamic and neocortical neurons after injury. Huguenard JR, et al. **Epilepsy Res Suppl** 1996; 12:129–35

Hyperexcitability after focal lesions and transient ischemia in rat neocortex. Luhmann HJ, et al. **Epilepsy Res Suppl** 1996;12:119–28

Possible mechanisms of seizure-related cell damage in the dentate hilus. Schwartzkroin PA, et al. **Epilepsy Res Suppl** 1996;12:317–24

Cognitive dysfunction in patients with congenital hydrocephalus and spina bifida: evidence for a dysexecutive syndrome? Iddon JL, et al. **Eur J Pediatr Surg** 1996 Dec; 6 Suppl 1:41

Autism and the inferior colliculus [letter] Simon N. **J Autism Dev Disord** 1997 Aug;27(4):494–6

Failure of prospective memory after acquired brain damage: preliminary investigation and suggestions for future directions. Cockburn J. **J Clin Exp Neuropsychol** 1996 Apr; 18(2):304–9

Triphasic waves in a psychiatric population: a retrospective study. Blatt I, et al. **J Clin Neurophysiol** 1996 Jul; 13(4):324–9

A model for detecting early metabolic changes in neonatal asphyxia by 1H-MRS. Nakai T, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):445–52

Alpha-stat acid-base regulation during cardiopulmonary bypass [letter; comment] Murkin JM. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):619–20. Comment on: J Thorac Cardiovasc Surg 1996 Jun;111(6):1267–79.

Production of cytokines following brain injury: beneficial and deleterious for the damaged tissue. Morganti-Kossman MC, et al. **Mol Psychiatry** 1997 Mar;2(2):133–6

Remodeling of cortical motor representations after stroke: implications for recovery from brain damage [news] Nudo RJ. **Mol Psychiatry** 1997 May;2(3):188–91

Systems of memory in the human brain. Willingham DB. **Neuron** 1997 Jan;18(1):5–8 (19 ref.)

Outcome of persistent vegetative state following hypoxic or traumatic brain injury in children and adolescents. Heindl UT, et al. **Neuropediatrics** 1996 Apr;27(2):94–100

An attempt towards differentiating attentional deficits in traumatic brain injury. Niemann H, et al. **Neuropsychol Rev** 1996 Mar;6(1):11–46 (125 ref.)

Early visual processing in neglect patients: a study with steady-state VEPs. Angelelli P, et al. **Neuropsychologia** 1996 Dec;34(12):1151–7

Impaired estimation of word occurrence frequency in frontal lobe patients. Angeles Jurado M, et al. **Neuropsychologia** 1997 May;35(5):635–41

Atypical cerebral dominance: predictions and tests of the right shift theory. Annett M, et al. **Neuropsychologia** 1996 Dec;34(12):1215–27

Intellectual stability in children with unilateral brain lesions. Aram DM, et al. **Neuropsychologia** 1994 Jan;32(1):85–95

The role of the hippocampus in recognition memory. Baxendale SA. **Neuropsychologia** 1997 May;35(5):591–8

False recognition after a right frontal lobe infarction: memory for general and specific information. Curran T, et al. **Neuropsychologia** 1997 Jul;35(7):1035–49

Focal and global attention modulate the expression of visuo-spatial neglect: a case study. Halligan PW, et al. **Neuropsychologia** 1994 Jan;32(1):13–21

Bilateral temporal lobe pathology with sparing of medial temporal lobe structures: lesion profile and pattern of memory disorder. Kapur N, et al. **Neuropsychologia** 1994 Jan;32(1):23–38

Contributions of the left and right cerebral hemispheres to line bisection. Mennemeier M, et al. **Neuropsychologia** 1997 May;35(5):703–15

Strategic retrieval and the frontal lobes: evidence from confabulation and amnesia. Moscovitch M, et al. **Neuropsychologia** 1997 Jul;35(7):1017–34

Impairment of memory following discrete thalamic infarction. Parkin AJ, et al. **Neuropsychologia** 1994 Jan; 32(1):39–51

Visuo-motor conditional associative learning after frontal and temporal lesions in the human brain. Petrides M. **Neuropsychologia** 1997 Jul;35(7):989–97

Response channel activation and the lateral prefrontal cortex. Rafal R, et al. **Neuropsychologia** 1996 Dec;34(12):1197–202

Differential impairments in recalling people's names: a case study in search of neuroanatomical correlates. Reinkemeier M, et al. **Neuropsychologia** 1997 May;35(5):677–84

One hand is better than two: motor extinction of left hand advantage in unilateral neglect [comment] Robertson IH, et al. **Neuropsychologia** 1994 Jan;32(1):1–11. Comment on: Neuropsychologia 1992 Jun;30(6):553–63.

The phonological short-term store-rehearsal system: patterns of impairment and neural correlates. Vallar G, et al. **Neuropsychologia** 1997 Jun;35(6):795–812

Dual task performance after focal cerebral lesions and closed head injuries. Vilkki J, et al. **Neuropsychologia** 1996 Nov; 34(11):1051–6

Neglect for low luminance contrast stimuli but not for high colour contrast stimuli: a behavioural and electrophysiological case study. Doricchi F, et al. **Neuroreport** 1996 May 31;7(8):1360–4

Reorganization of memory functions after human temporal lobe damage. Jokeit H, et al. **Neuroreport** 1996 Jul 8; 7(10):1627–30

Head and trunk orientation modulate visual neglect. Schindler I, et al. **Neuroreport** 1997 Aug 18;8(12):2681–5

The effect of age on susceptibility to hypoxic-ischemic brain damage. Yager JY, et al. **Neurosci Biobehav Rev** 1997 Mar; 21(2):167–74 (91 ref.)

Long-term consequences of subtle stimuli during the first twenty-four hours of seizure-induced brain injury. Cook LL, et al. **Percept Mot Skills** 1996 Oct;83(2):523–9

Neural plasticity after brain damage. Spear PD. **Prog Brain Res** 1996;108:391–408 (58 ref.)

Consciousness of perception after brain damage. Farah MJ, et al. **Semin Neurol** 1997 Jun;17(2):145–52 (45 ref.)

[Assessment of spontaneous motor activity in young infants: an effective method for the detection of brain function disorders] Hadders-Algra M. **Ned Tijdschr Geneeskd** 1997 Apr 26;141(17):816–20 (Eng. Abstr.) **(Dut)**

[Neurodevelopmental models of schizophrenia] Verdoux H. **Encephale** 1996 Oct;22 Spec No 3:85–90 (56 ref.) **(Fre)**

[Significance of apoptosis-induced fas antigen-fas ligand system for post-traumatic brain edema] Keel M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:481–3 (Eng. Abstr.) **(Ger)**

[Neurobiological findings in children with specific language development disorders] von Suchodoletz W. **Z Kinder Jugenpsychiatr** 1997 Mar;25(1):35–45 (45 ref.) **(Ger)**

[Value of electroneurophysiological monitoring on the intensive care unit] Engelhardt W. **Zentralbl Neurochir** 1997;58(1):36–42 (23 ref.) **(Ger)**

[Neonatal brain injury and evoked potentials] Kaga M, et al. **No To Hattatsu** 1996 Mar;28(2):138–45 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Selective blockade of N-type voltage-sensitive calcium channels protects against brain injury after transient focal cerebral ischemia in rats. Bowersox SS, et al. **Brain Res** 1997 Feb 7;747(2):343–7

New therapeutic possibility of blocking cytokine-induced neutrophil chemoattractant on transient ischemic brain damage in rats. Yamasaki Y, et al. **Brain Res** 1997 Jun 6; 759(1):103–11

Phenytoin pretreatment prevents hypoxic-ischemic brain damage in neonatal rats. Vartanian MG, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):169–75

Comparative analysis of brain protection by N-methyl-D-aspartate receptor antagonists after transient focal ischemia in cats. Miyabe M, et al. **Crit Care Med** 1997 Jun;25(6):1037–43

Isoflurane and propofol block neurotoxicity caused by MK-801 in the rat posterior cingulate/retrosplenial cortex. Jevtović-Todorović V, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):168–74

Rapid preconditioning protects rats against ischemic neuronal damage after 3 but not 7 days of reperfusion following global cerebral ischemia. Pérez-Pinzón MA, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):175–82

Neuroprotective effect of NMDA receptor glycine recognition site antagonism persists when brain temperature is controlled. Takaoka S, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):161–7

Vascular and neuronal hypertensive brain damage: protective effect of treatment with nicardipine. Amenta F, et al. **J Hypertens Suppl** 1996 Oct;14(3):S29–35

Pretreatment but not posttreatment with GYKI 52466 reduces functional deficits and neuronal damage after global ischemia in rats. Block F, et al. **J Neurol Sci** 1996 Aug;139(2):167–72

Glucocorticoids and the prevention of hypoxic-ischemic brain damage. Tuor UI. **Neurosci Biobehav Rev** 1997 Mar; 21(2):175–9 (33 ref.)

Effects of the 21-amino steroid tirilazad mesylate (U-74006F) on brain damage and edema after perinatal hypoxia-ischemia in the rat. Bågenholm R, et al. **Pediatr Res** 1996 Sep;40(3):399–403

Posthypoxic hypothermia in newborn piglets. Haaland K, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):505–12

Brain protection. Milde LN. **Schweiz Med Wochenschr** 1997 Jun 21;127(25):1059–68 (46 ref.)

Protection with lubeluzole against delayed ischemic brain damage in rats. A quantitative histopathologic study. Haseldonckx M, et al. **Stroke** 1997 Feb;28(2):428–32

Neuroprotection with NBQX in rat focal cerebral ischemia. Effects on ADC probability distribution functions and diffusion-perfusion relationships. Lo EH, et al. **Stroke** 1997 Feb;28(2):439–46; discussion 446–7

[Monitoring head trauma] Clavier N, et al. **Schweiz Med Wochenschr** 1997 Jun 21;127(25):1069–76 (53 ref.) (Eng. Abstr.) **(Fre)**

[Early intervention saves brain tissue. With a platinum spiral against aneurysms (news)] **Fortschr Med** 1997 Mar 30; 115(9):10–1 **(Ger)**

PSYCHOLOGY

Persistent neuropsychological deficits following whiplash: evidence for chronic mild traumatic brain injury? [see comments] Taylor AE, et al. **Arch Phys Med Rehabil** 1996

Jun;77(6):529–35. Comment in: Arch Phys Med Rehabil 1997 Mar;78(3):334–5.

Adaptation to cognitive deficit? An exploration of apparent dissociations between everyday memory and test performance late after stroke. Sunderland A, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):463–76

Conversation with traumatically brain-injured individuals: a controlled study of behavioural changes and their impact. Bond F, et al. **Brain Inj** 1997 May;11(5):319–29

Indicators of long-term family functioning following severe traumatic brain injury in adults. Douglas JM, et al. **Brain Inj** 1996 Nov;10(11):819–39

Neuropsychological assessment after extremely severe head injury in a case of life or death. McMillan TM. **Brain Inj** 1997 Jul;11(7):483–90

The spectrum of emotional distress and personality changes after minor head injury incurred in a motor vehicle accident. Parker RS. **Brain Inj** 1996 Apr;10(4):287–302

Miserable minority: emotional risk factors that influence the outcome of a mild traumatic brain injury. Ruff RM, et al. **Brain Inj** 1996 Aug;10(8):551–65

Change in relationship status following traumatic brain injury. Wood RL, et al. **Brain Inj** 1997 Jul;11(7):491–501

Knowledge of scripts reflected in discourse of aphasics and right-brain-damaged patients. Lojek-Osiejuk E. **Brain Lang** 1996 Apr;53(1):58–80

Symbolic aspects of confabulation following brain injury: influence of premorbid personality. Weinstein EA. **Bull Menninger Clin** 1996 Summer;60(3):331–50 (39 ref.)

Memory and processing speed in preterm children at eleven years: a comparison with full-terms. Rose SA, et al. **Child Dev** 1996 Oct;67(5):2005–21

Subtraction bugs in an acalculic patient. Girelli L, et al. **Cortex** 1996 Sep;32(3):547–55

How local is the impact of a specific learning difficulty on premature children's evaluation of their own competence? Jongmans M, et al. **J Child Psychol Psychiatry** 1996 Jul; 37(5):563–8

Cognitive slowing in patients with acquired brain damage: an experimental approach. Grön G. **J Clin Exp Neuropsychol** 1996 Jun;18(3):406–15

Neuropsychological consequences of very low birth weight and asphyxia at term: follow-up until school-age. Korkman M, et al. **J Clin Exp Neuropsychol** 1996 Apr;18(2):220–33

Erotomania in a brain-damaged male. John S, et al. **J Intellect Disabil Res** 1996 Jun;40 (Pt 3):279–83

Novel decision making in patients with prefrontal or posterior brain damage. Godefroy O, et al. **Neurology** 1997 Sep; 49(3):695–701

When implicit learning fails: amnesia and the problem of error elimination. Baddeley A, et al. **Neuropsychologia** 1994 Jan; 32(1):53–68

Unconscious influences on amnesics' word-stem completion. Cermak LS, et al. **Neuropsychologia** 1997 May;35(5):605–10

Priming arithmetic facts in amnesic patients. Delazer M, et al. **Neuropsychologia** 1997 May;35(5):623–34

Influence of perceptual and semantic conflicts between the two halves of chimeric stimuli on the expression of visuo-spatial neglect. Peru A, et al. **Neuropsychologia** 1997 May;35(5):583–9

Mild head injury in children and adolescents: a review of studies (1970–1995). Satz P, et al. **Psychol Bull** 1997 Sep; 122(2):107–31 (75 ref.)

Assessment of depression in patients with brain pathology: the case of stroke. Spencer KA, et al. **Psychol Bull** 1997 Sep;122(2):132–52 (120 ref.)

Scientists probe feelings behind decision-making [news; comment] Vogel G. **Science** 1997 Feb 28;275(5304):1269. Comment on: Science 1997 Feb 28;275(5304):1293–5.

The neural basis of aware and unaware forms of memory. Verfaellie M, et al. **Semin Neurol** 1997 Jun;17(2):153–61 (90 ref.)

[Brain infections in father and son and their sequelae--a personal report] Amzar D. **Fortschr Neurol Psychiatr** 1996 Sep;64(9):353–7 (Eng. Abstr.) **(Ger)**

[Psychiatric sequelae of craniocerebral trauma--a review of the literature] Supprian T, et al. **Psychiatr Prax** 1996 Jul; 23(4):161–7 (73 ref.) (Eng. Abstr.) **(Ger)**

[Subjective disability caused by physical and psychological complaints in long-term follow-up after transient ischemic attacks or "minor stroke"] Schnider P, et al. **Rehabilitation (Stuttg)** 1996 Aug;35(3):143–9 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Sequential computerized tomography changes and related final outcome in severe head injury patients. Lobato RD, et al. **Acta Neurochir (Wien)** 1997;139(5):385–91

Computerized tomography and prognosis in paediatric head injury. Tomberg T, et al. **Acta Neurochir (Wien)** 1996; 138(5):543–8

Relationship between muscular tone, movement and periarticular new bone formation in postcoma-unaware (PC-U) patients. Tsur A, et al. **Brain Inj** 1996 Apr; 10(4):259–62

Delayed and progressive brain injury in children and adolescents with head trauma. Stein SC, et al. **Pediatr Neurosurg** 1995;23(6):299–304

RADIONUCLIDE IMAGING

Hypoxic brain injury: evaluation by single photon emission computed tomography. Rupright J, et al. **Arch Phys Med Rehabil** 1996 Nov;77(11):1205–8

Tc-HMPAO SPECT in persistent post-concussion syndrome after mild head injury: comparison with MRI/CT. Kant R, et al. **Brain Inj** 1997 Feb;11(2):115–24

Correlation of functional independence measure (FIM) and SPECT Iofetamine (I-123) as a predictor of functional return in stroke. Rupright J, et al. **Brain Inj** 1997 Jan; 11(1):49–57

Cobalt-55 positron emission tomography in ischemic stroke. Jansen HM, et al. **Clin Neurol Neurosurg** 1997 Feb; 99(1):6–10

[Positron-emission tomography in the diagnosis of brain damage in patients in the late period of craniocerebral trauma] Rudas MS, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul-Sep;(3):8–12 (Eng. Abstr.) **(Rus)**

REHABILITATION

A consecutive series of adults with brain injury treated with a washing and dressing retraining program. Giles GM, et al. **Am J Occup Ther** 1997 Apr;51(4):256–66

The effectiveness of DRL in the management and treatment of severe behaviour disorders following brain injury [published erratum appears in Brain Inj 1997 Jul;11(7):541–2] Alderman N, et al. **Brain Inj** 1997 Feb; 11(2):79–101

Patients with traumatic brain injury referred to a rehabilitation and re-employment programme: social and professional outcome for 508 Finnish patients 5 or more years after injury. Asikainen I, et al. **Brain Inj** 1996 Dec; 10(12):883–99

The use of lithium in the treatment of aggressive behaviours with two brain-injured individuals in a state psychiatric hospital. Bellus SB, et al. **Brain Inj** 1996 Nov;10(11):849–60

Neuropsychological rehabilitation of mild traumatic brain injury. Cicerone KD, et al. **Brain Inj** 1996 Apr;10(4):277–86

Early experience of the utility of the European Head Injury Evaluation Chart. Cudmore S, et al. **Brain Inj** 1996 Jul; 10(7):517–29

Recovery and rehabilitation following traumatic brain injury. Dombovy ML, et al. **Brain Inj** 1997 May;11(5):305–18

Eating in side-lying facilitates rehabilitation in neurogenic dysphagia. Drake W, et al. **Brain Inj** 1997 Feb;11(2):137–42

Community-based rehabilitation of the person with a severe brain injury. Freeman EA. **Brain Inj** 1997 Feb;11(2):143–53

Self-management in the treatment of ataxia: a case study in reducing ataxic tremor through relaxation and biofeedback. Guercio J, et al. **Brain Inj** 1997 May;11(5):353–62

Reaction time and variability 5 and 10 years after traumatic brain injury. Hetherington CR, et al. **Brain Inj** 1996 Jul; 10(7):473–86

Everyday memory following traumatic brain injury. Kinsella G, et al. **Brain Inj** 1996 Jul;10(7):499–507

Utility of a verbal reasoning test in indicating vocational readiness following traumatic brain injury. MacDonald S, et al. **Brain Inj** 1996 Jul;10(7):531–42

Ethical conflict resolution based on an ethics of relationships for brain injury rehabilitation. Malec JF. **Brain Inj** 1996 Nov;10(11):781–95

Prevalence of impairments 5 years after a head injury, and their relationship with disabilities and outcome. Masson F, et al. **Brain Inj** 1996 Jul;10(7):487–97

Therapy methodology. Riding the bus: teaching an adult with a brain injury to use a transit system to travel independently to and from work. Newbigging ED, et al. **Brain Inj** 1996 Jul;10(7):543–50

Outcome following traumatic brain injury: a comparison between 2 and 5 years after injury. Olver JH, et al. **Brain Inj** 1996 Nov;10(11):841–8

Reducing naltrexone-resistant hyperphagia using laser acupuncture to increase endogenous opiates. Read A, et al. **Brain Inj** 1996 Dec;10(12):911–9

Static and dynamic assessment practices after head injury. Rees RJ, et al. **Brain Inj** 1996 Apr;10(4):247–57

Cognitive effects of antipsychotic agents in persons with traumatic brain injury. Stanislav SW. **Brain Inj** 1997 May; 11(5):335–41

Community based rehabilitation [editorial] Stonnington HH. **Brain Inj** 1997 Feb;11(2):155

Treatment of motor aprosodia with pitch biofeedback and expression modelling. Stringer AY. **Brain Inj** 1996 Aug; 10(8):583–90

Recovery of automatic and cognitive functions in traumatic brain injury using the functional independence measure. Tofil S, et al. **Brain Inj** 1996 Dec;10(12):901–10

Behavioural differences between patients who emerged from vegetative state and those who did not. Wilson SL, et al. **Brain Inj** 1996 Jul;10(7):509–16

Effectiveness of valproic acid on destructive and aggressive behaviours in patients with acquired brain injury. Wroblewski BA, et al. **Brain Inj** 1997 Jan;11(1):37–47

Trauma and rehabilitation. **Curr Opin Neurol** 1996 Dec; 9(6):B140–9

Virtual reality: an assistive technology in neurological rehabilitation. Rose FD, et al. **Curr Opin Neurol** 1996 Dec; 9(6):461–7 (53 ref.)

Evaluation of NeuroPage: a new memory aid. Wilson BA, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):113–5

Neurological and psychosocial outcome 4 to 7 years after subarachnoid hemorrhage. Ogden JA, et al. **Neurosurgery** 1997 Jul;41(1):25–34

Computers help reprogram injured brains. Hoepfer M. **Pa Med** 1996 Apr;99(4):34–6

THERAPY

Late recovery of motor functions. Mauritz KH, et al. **Adv Neurol** 1997;73:395–408 (47 ref.)

In the public's view ... to feed or not to feed? Goodman NW. **Br J Hosp Med** 1996 Jun 5–18;55(11):716

["Phineas Gage is put in prison in Sweden". Criminals with brain damage should be treated in forensic psychiatric institutions] Lidberg L, et al. **Lakartidningen** 1996 Sep 18; 93(38):3251 **(Swe)**

ULTRASONOGRAPHY

Quantitative sonographic feature analysis of clinical infant hypoxia: a pilot study. Barr LL, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1025–31

The posterior fontanelle: a neglected acoustic window. de Vries LS, et al. **Neuropediatrics** 1996 Apr;27(2):101–4

[Prognostic value of Doppler flow measurement of the middle cerebral artery for morbidity of premature infants with null or negative flow in umbilical arteries] Ulrich S, et al. **Zentralbl Gynakol** 1996;118(11):605–9 (Eng. Abstr.) **(Ger)**

BRAIN DEATH

Saving the unseen patient. Cramer C. **Am J Nurs** 1996 Sep; 96(9):80

Brain death during pregnancy: tocolytic therapy and aggressive maternal support on behalf of the fetus. Catanzarite VA, et al. **Am J Perinatol** 1997 Aug;14(7):431–4

Cerebral death induced by electrical current. Ayala-Guerrero F, et al. **Bol Estud Med Biol** 1995 Jan-Dec;43(1–4):19–21

Brain death. Cantrill SV. **Emerg Med Clin North Am** 1997 Aug;15(3):713–22 (33 ref.)

Brain stem death. Evans DW. **J R Coll Physicians Lond** 1996 Jan-Feb;30(1):88–90

Acute increase of myocardial workload, hemodynamic instability, and myocardial histological changes induced by brain death in the cat. Bruinsma GJ, et al. **J Surg Res** 1997 Feb 15;68(1):7–15

Brain death and organ donation. Wig N, et al. **Natl Med J India** 1997 May-Jun;10(3):120–5 (27 ref.)

A change of heart and a change of mind? Technology and the redefinition of death in 1968. Giacomini M. **Soc Sci Med** 1997 May;44(10):1465–82 (63 ref.)

Brain death management: keystone of transplantation activity. Bret M, et al. **Transplant Proc** 1997 Aug;29(5):2431

Human T cell lymphotrophic virus 1-2-positive nonretrieved cerebral deaths in France, 1992–1994. Claquin J, et al. **Transplant Proc** 1996 Oct;28(5):2953

Initial cardiac arrest is a risk factor for failure of organ procurement in brain-dead patients. Delaunay L, et al. **Transplant Proc** 1996 Oct;28(5):2894

[On the conception of the brainstem death] Kawamura H, et al. **No To Shinkei** 1997 Jul;49(7):602–10 (44 ref.) **(Jpn)**

[Pragmatism versus metaphysics: a controversy about brain death] Araya RF. **Rev Med Chil** 1996 May;124(5):605–12 (Eng. Abstr.) **(Spa)**

BLOOD

Relationships between blood drug concentrations and cerebral effects. Upton RN. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S52–3

Nitric oxide in brain death related cardiovascular dysfunction. Bittner HB, et al. **J Crit Care** 1996 Mar; 11(1):43–9

Changes in organ perfusion after brain death in the rat and its relation to circulating catecholamines. Herijgers P, et al. **Transplantation** 1996 Aug 15;62(3):330–5

DIAGNOSIS

Apnoea testing in children [letter; comment] Sharples A, et al. **Anaesthesia** 1997 May;52(5):503. Comment on: Anaesthesia 1997 Jan;52(1):87.

PaCO2 and apnoea testing for brain stem death [letter] [see comments] Visram A, et al. **Anaesthesia** 1997 Jan;52(1):87 . Comment in: Anaesthesia 1997 May;52(5):503.

Diagnosing death. Death of the brain stem means death of the individual [letter; comment] English T. **BMJ** 1997 Feb 8;314(7078):443. Comment on: BMJ 1996 Oct 19;313(7063):956–7.

The Coma Exit Chart: assessing the patient in prolonged coma and the vegetative state. Freeman EA. **Brain Inj** 1996 Aug;10(8):615–24

Heart rate variability in brain death. Freitas J, et al. **Clin Auton Res** 1996 Jun;6(3):141–6

Drugs and brain death: a unifying approach. Kennedy M. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S50–1

Drugs and brain death: the clinician's perspective. Moran JL. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S40–1

Drugs and brain death: drug assay perspectives. Morris RG. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S42–3

Drugs and brain death: a matter of 'practical certainty'. Tobin B. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S44–6

Drugs and brain death. Kennedy M, et al. **Drug Saf** 1996 Mar;14(3):171–80 (57 ref.)

Is it time to abandon brain death? Truog RD. **Hastings Cent Rep** 1997 Jan-Feb;27(1):29-37 (47 ref.)
Computer aided analysis of heart rate variability in brain death. Knüttgen D, et al. **Int J Clin Monit Comput** 1997 Feb;14(1):37-42
Reliability of brain death diagnostics [letter; comment] Link J, et al. **Intensive Care Med** 1996 Aug;22(8):836-7. Comment on: Intensive Care Med 1995 Aug;21(8):657-62.
Clinical examination findings in neonates with the absence of electrocerebral activity: an acute or chronic encephalopathic state? Scher MS, et al. **J Perinatol** 1996 Nov-Dec;16(6):455-60
Death in technological time: locating the end of meaningful life. Lock M. **Med Anthropol Q** 1996 Dec;10(4):575-600 (63 ref.)
Drugs and brain death. Kennedy MC, et al. **Med J Aust** 1996 Oct 7;165(7):394-8
Magnetic resonance imaging of brain death. Matsumura A, et al. **Neurol Med Chir (Tokyo)** 1996 Mar;36(3):166-71
Brain death in infants and children. Sainio K. **Neurol Neurochir Pol** 1996;30 Suppl 3:25-9
[Brain death criteria; guidelines by the Public Health Council] ten Velden GH, et al. **Ned Tijdschr Geneeskd** 1997 Jan 11;141(2):77-9 (Eng. Abstr.) **(Dut)**
[Brain death diagnosis in the catchment area of the Erlangen University Neurology Clinic from 1984 to 1994 (letter; comment)] Firsching R. **Dtsch Med Wochenschr** 1997 Feb 28;122(9):279. Comment on: Dtsch Med Wochenschr 1996 Nov 1;121(44):1349-53. **(Ger)**
[Diagnosis of brain death in the admission department of the Neurologic Clinic of Erlangen University from 1984 to 1994 (see comments)] Heckmann JG, et al. **Dtsch Med Wochenschr** 1996 Nov 1;121(44):1349-53 (Eng. Abstr.). Comment in: Dtsch Med Wochenschr 1997 Feb 28;122(9):279. **(Ger)**
[Brain death: myocardial consequences, an experimental study on pigs] Montagna P, et al. **G Ital Cardiol** 1997 Apr; 27(4):337-41 (Eng. Abstr.) **(Ita)**
[Ancillary studies in the determination of brain death] Shiogai T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:301-9 (13 ref.) **(Jpn)**
[Brain death protocol] Manreza LA. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul-Aug; 51(4):144-6 **(Por)**
[Clinico-pathological study of cerebral death] Hodelin R, et al. **Rev Neurol** 1997 Jun;25(142):859-62 (Eng. Abstr.) **(Spa)**

LEGISLATION & JURISPRUDENCE

Germany passes new transplant law [news] Goldbeck-Wood S. **BMJ** 1997 Jul 5;315(7099):11
Drugs and brain death: a legal perspective. Chivell W. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S47-9
Japan OKs organ transplants--but obstacles remain [news] **Gastroenterology** 1997 Aug;113(2):373
Is it time to abandon brain death? Truog RD. **Hastings Cent Rep** 1997 Jan-Feb;27(1):29-37 (47 ref.)
Organ transplant initiatives: the twilight zone. Price DP. **J Med Ethics** 1997 Jun;23(3):170-5
[Transplantation law--quo vadis. Will current transplantation policy in Germany remain intact?] Gubernatis G. **Chirurg** 1997 Mar;68(3):suppl 69-75 **(Ger)**
[Intensive care precautions for brain-dead pregnant women in law and ethics] Stellpflug MH. **Dtsch Med Wochenschr** 1997 May 2;122(18):594-6 **(Ger)**
[Death as an agreement--a provocation or possible method for public consensus in the brain death discussion? (editorial)] Gubernatis G. **Med Klin** 1996 Jan 15;91(1):47-8 **(Ger)**
[Brain death (editorial)] Haupt WF. **Med Klin** 1996 Jan 15; 91(1):46 **(Ger)**
[Medical problems in brain death criteria] Vollmann J. **Med Klin** 1996 Jan 15;91(1):39-45 (56 ref.) **(Ger)**

METABOLISM

Effects of brain death and glucose infusion on hepatic glycogen and blood hormones in the pig. Roelsgaard K, et al. **Hepatology** 1996 Oct;24(4):871-5

PATHOLOGY

Raising sperm from the dead [editorial] Webb SM. **J Androl** 1996 Jul-Aug;17(4):325-6
Ultrastructure changes associated with brain death in the human donor heart. Novitzky D, et al. **Transpl Int** 1997; 10(1):24-32

PHYSIOPATHOLOGY

Diminished vasomotor component of systemic arterial pressure signals and baroreflex in brain death. Kuo TB, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1291-8
Brain death further promotes ischemic reperfusion injury of the rabbit myocardium. Biswas SS, et al. **Ann Thorac Surg** 1996 Dec;62(6):1808-15
Scalp, earlobe and nasopharyngeal recordings of the median nerve somatosensory evoked P14 potential in coma and brain death. Detailed latency and amplitude analysis in 181 patients. Wagner W. **Brain** 1996 Oct;119 (Pt 5):1507-21
Brain death alters cardiopulmonary hemodynamics and impairs right ventricular power reserve against an elevation of pulmonary vascular resistance. Bittner HB, et al. **Chest** 1997 Mar;111(3):706-11
Preload-recruitable stroke work relationships and diastolic dysfunction in the brain-dead organ donor. Bittner HB, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II320-5
Right ventricular function in the donor heart. Kendall SW, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):609-15
Autonomous stump movements in brain death. Lang CJ, et al. **Eur Neurol** 1997;37(4):249
Transesophageal echocardiographic assessment of left ventricular function in brain-dead patients: are marginally acceptable hearts suitable for transplantation? Vedrinne JM, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):708-12
The combined effects of brain death and cardiac graft preservation on cardiopulmonary hemodynamics and function before and after subsequent heart transplantation. Bittner HB, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):764-77
Changes in organ perfusion after brain death in the rat and its relation to circulating catecholamines. Herijgers P, et al. **Transplantation** 1996 Aug 15;62(3):330-5
Reuse of liver grafts after early death of the first recipient. Moreno González E, et al. **World J Surg** 1996 Mar-Apr; 20(3):309-12; discussion 312-3
[Liver transplantation in brain-dead organ donors: a new experimental model for study of hepatic microcirculation and organ function after induction of brain death] Okamoto S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:275-7 (Eng. Abstr.) **(Ger)**
[Life support for homeostasis in organ donors] Stocker R, et al. **Schweiz Med Wochenschr** 1997 Jun 14; 127(24):1044-50 (30 ref.) (Eng. Abstr.) **(Ger)**
[Experimental study on the effect of simple percutaneous left heart bypass (LHB) in cases of brain death--hemodynamic and histological evaluation] Kokaji K. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):974-84 (Eng. Abstr.) **(Jpn)**
[Automatic movements of extremities induced in primary massive brain lesion with apneic coma] Nokura K, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):198-207 (Eng. Abstr.) **(Jpn)**
[The physiopathological and therapeutic implications of the hormonal disorders associated with brain death] Amado JA, et al. **Rev Clin Esp** 1997 Jan;197(1):35-41 (73 ref.) **(Spa)**

RADIOGRAPHY

Intravenous angiography in brain death: report of 140 patients. Braum M, et al. **Neuroradiology** 1997 Jun; 39(6):400-5
Radiological confirmation of brain death: digitised cerebral parenchymography. Preliminary report. Huet H, et al. **Neuroradiology** 1996 May;38 Suppl 1:S42-6

RADIONUCLIDE IMAGING

Findings on Tc-99m HMPAO brain imaging in brain death. Lu G, et al. **Clin Nucl Med** 1996 Nov;21(11):891-3
Evaluation of brain perfusion with high resolution single photon emission tomography in the diagnosis of brain death. Soricelli A, et al. **Minerva Anestesiol** 1996 Jun; 62(6):209-12
[99mTc HMPAO (technetium 99m-hexamethylpropyleneamine oxime) angioscintigraphy in the diagnosis of brain death] Abate A, et al. **Minerva Anestesiol** 1995 Jul-Aug;61(7-8):329-34 (Eng. Abstr.) **(Ita)**

BRAIN-DERIVED NEUROTROPHIC FACTOR

ADMINISTRATION & DOSAGE

Intraventricular brain-derived neurotrophic factor reduces infarct size after focal cerebral ischemia in rats. Schäbitz WR, et al. **J Cereb Blood Flow Metab** 1997 May;17(5):500-6
[NT-3 and BDNF for potential inner ear therapy] Knipper M. **HNO** 1997 Apr;45(4):181-3 **(Ger)**

ADVERSE EFFECTS

Use of a rodent neurotoxicity screening battery in the preclinical safety assessment of recombinant-methionyl human brain-derived neurotrophic factor. Lebel CP, et al. **Neurotoxicology** 1996 Fall-Winter;17(3-4):851-63

ANALYSIS

The BDNF content of postnatal and adult rat brain: the effects of 6-hydroxydopamine lesions in adult brain. Zhou J, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):297-303
Detection of brain-derived neurotrophic factor in a vesicular fraction of brain synaptosomes. Fawcett JP, et al. **J Biol Chem** 1997 Apr 4;272(14):8837-40
Differential distribution of BDNF and TRKB in regenerating dorsal column axons. Cameron AA. **Neuroreport** 1997 Aug 18;8(12):2655-9
Relationship between BDNF- and trk-expressing neurones in rat dorsal root ganglion: an analysis by in situ hybridization. Kashiba H, et al. **Neuroreport** 1997 Mar 24; 8(5):1229-34

BIOSYNTHESIS

Dopaminergic transmitter up-regulation of brain-derived neurotrophic factor (BDNF) and nerve growth factor (NGF) synthesis in mouse astrocytes in culture. Inoue S, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):468-72
BDNF gene can Be activated by Ca2+ signals without involvement of de novo AP-1 synthesis. Sano K, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):788-93
Expression of mRNA for brain-derived neurotrophic factor in the dorsal root ganglion following peripheral inflammation. Cho HJ, et al. **Brain Res** 1997 Feb 28; 749(2):358-62
Somatostatin and brain-derived neurotrophic factor mRNA expression in the primate brain: decreased levels of mRNAs during aging. Hayashi M, et al. **Brain Res** 1997 Feb 28; 749(2):283-9
Early induction of mRNA for calbindin-D28k and BDNF but not NT-3 in rat hippocampus after kainic acid treatment. Lee S, et al. **Brain Res Mol Brain Res** 1997 Jul; 47(1-2):183-94
Conditioned medium from aged monkey fibroblasts stably expressing GDNF and BDNF improves survival of embryonic dopamine neurons in vitro. Kaddis FG, et al. **Cell Tissue Res** 1996 Nov;286(2):241-7
Timing and regulation of trkB and BDNF mRNA expression in placode-derived sensory neurons and their targets. Robinson M, et al. **Eur J Neurosci** 1996 Nov;8(11):2399-406
Cellular hybridization for BDNF, trkB, and NGF mRNAs and BDNF-immunoreactivity in rat forebrain after pilocarpine-induced status epilepticus. Schmidt-Kastner R, et al. **Exp Brain Res** 1996;107(3):331-47
Elevated mRNA expression of brain-derived neurotrophic factor in retinal ganglion cell layer after optic nerve injury. Gao H, et al. **Invest Ophthalmol Vis Sci** 1997 Aug; 38(9):1840-7
Expression of neurotrophins and trk receptors in the avian retina. Hallböök F, et al. **J Comp Neurol** 1996 Jan 22; 364(4):664-76
5-HT2A receptor-mediated regulation of brain-derived neurotrophic factor mRNA in the hippocampus and the neocortex. Vaidya VA, et al. **J Neurosci** 1997 Apr 15; 17(8):2785-95
Treatment with genetically engineered fibroblasts producing NGF or BDNF can accelerate recovery from traumatic spinal cord injury in the adult rat. Kim DH, et al. **Neuroreport** 1996 Sep 2;7(13):2221-5
Intact spatial learning and memory in transgenic mice with reduced BDNF. Montkowski A, et al. **Neuroreport** 1997 Feb 10;8(3):779-82
Induction of brain-derived neurotrophic factor (BDNF) and the receptor trk B mRNA following middle cerebral artery occlusion in rat. Arai S, et al. **Neurosci Lett** 1996 Jun 14; 211(1):57-60
Enhanced synthesis of platelet-derived growth factor following injury induced by 6-hydroxydopamine in rat brain. Funa K, et al. **Neuroscience** 1996 Oct;74(3):825-33
Seizure-induced differential expression of messenger RNAs for neurotrophins and their receptors in genetically fast and slow kindling rats. Kokaia Z, et al. **Neuroscience** 1996 Nov;75(1):197-207
Pilocarpine-induced seizures are accompanied by a transient elevation in the messenger RNA expression of the prohormone convertase PC1 in rat hippocampus: comparison with nerve growth factor and brain-derived neurotrophic factor expression. Marcinkiewicz M, et al. **Neuroscience** 1997 Jan;76(2):425-39
Expression of brain-derived neurotrophic factor protein in the adult rat central nervous system. Yan Q, et al. **Neuroscience** 1997 May;78(2):431-48

BLOOD

Brain-derived neurotrophic factor in human platelets. Pliego-Rivero FB, et al. **Biochem Pharmacol** 1997 Jul 1; 54(1):207-9
Marked expression of plasma brain natriuretic peptide is a special feature of hypertrophic obstructive cardiomyopathy. Nishigaki K, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1234-42

CHEMISTRY

Amphiphilic helix is essential for the activity of brain injury-derived neurotrophic peptide (BINP). Hama T, et al. **FEBS Lett** 1996 Nov 4;396(2-3):143-6
Crystals of the neurotrophins. Robinson RC, et al. **Protein Sci** 1996 May;5(5):973-7

DEFICIENCY

Mice lacking brain-derived neurotrophic factor exhibit visceral sensory neuron losses distinct from mice lacking NT4 and display a severe developmental deficit in control of breathing. Erickson JT, et al. **J Neurosci** 1996 Sep 1; 16(17):5361-71
Intact spatial learning and memory in transgenic mice with reduced BDNF. Montkowski A, et al. **Neuroreport** 1997 Feb 10;8(3):779-82

GENETICS

Physical activity increases mRNA for brain-derived neurotrophic factor and nerve growth factor in rat brain. Neeper SA, et al. **Brain Res** 1996 Jul 8;726(1-2):49-56
Organization, sequence and functional analysis of a mouse

BDNF promoter. Hayes VY, et al.
Brain Res Mol Brain Res 1997 May;45(2):189–98

Regional brain-derived neurotrophic factor mRNA and protein levels following transient forebrain ischemia in the rat. Kokaia Z, et al. **Brain Res Mol Brain Res** 1996 May; 38(1):139–44

Induction of brain derived neurotrophic factor mRNA by seizures in neonatal and juvenile rat brain. Kornblum HI, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):219–28

Lingual deficits in BDNF and NT3 mutant mice leading to gustatory and somatosensory disturbances, respectively. Nosrat CA, et al. **Development** 1997 Apr;124(7):1333–42

Increased expression of BDNF and trkB mRNA in rat facial motoneurons after axotomy. Kobayashi NR, et al.
Eur J Neurosci 1996 May;8(5):1018–29

Ex vivo gene transfer of brain-derived neurotrophic factor to the intact rat forebrain: neurotrophic effects on cholinergic neurons. Martinez-Serrano A, et al.
Eur J Neurosci 1996 Apr;8(4):727–35

Suppressed kindling epileptogenesis and perturbed BDNF and TrkB gene regulation in NT-3 mutant mice. Elmér E, et al. **Exp Neurol** 1997 May;145(1):93–103

The gene encoding bovine brain-derived neurotrophic factor (BDNF). Arab SF, et al. **Gene** 1997 Jan 31;185(1):95–8

Using herpes simplex virus type 1 (HSV-1) mediated gene transfer to study neurotrophins in cochlear neurons. Garrido JJ, et al. **Int J Dev Biol** 1996;Suppl 1:149S–150S

Expression and regulation of brain-derived neurotrophic factor and neurotrophin-3 mRNAs in distinct avian motoneuron subsets. Kahane N, et al. **J Neurobiol** 1996 Mar;29(3):277–92

Differential effects of protein synthesis inhibition on the activity-dependent expression of BDNF transcripts: evidence for immediate-early gene responses from specific promoters. Lauterborn JC, et al. **J Neurosci** 1996 Dec 1; 16(23):7428–36

Prevention of motoneuron death by adenovirus-mediated neurotrophic factors. Giménez y Ribotta M, et al.
J Neurosci Res 1997 May 1;48(3):281–5

Expression of brain-derived neurotrophic factor mRNA stimulated by basic fibroblast growth factor and platelet-derived growth factor in rat hippocampal cell line. Kwon YK. **Mol Cells** 1997 Jun 30;7(3):320–5

Adenoviral gene transfer of ciliary neurotrophic factor and brain-derived neurotrophic factor leads to long-term survival of axotomized motor neurons. Gravel C, et al. **Nat Med** 1997 Jul;3(7):765–70

BDNF and trkB mRNA expression in neurons of the neonatal mouse barrel field cortex: normal development and plasticity after cauterizing facial vibrissae. Singh TD, et al. **Neurochem Res** 1997 Jul;22(7):791–7

HSV-1 vector mediated transfer of BDNF into cerebellar granule cells. Alonso MT, et al. **Neuroreport** 1996 Nov 25;7(18):3105–8

Ibotenic acid in the medial septum increased brain-derived neurotrophic factor mRNA levels in the dorsal rat hippocampal formation. Mahy N, et al. **Neurosci Lett** 1996 Aug 9;213(3):169–72

Short increase of BDNF messenger RNA triggers kainic acid-induced neuronal hypertrophy in adult mice. Guilhem D, et al. **Neuroscience** 1996 Jun;72(4):923–31

Virus-mediated gene transfer into hippocampal CA1 region restores long-term potentiation in brain-derived neurotrophic factor mutant mice. Korte M, et al.
Proc Natl Acad Sci U S A 1996 Oct 29;93(22):12547–52

[Changes in cAMP signal transduction function and gene expression related to the onset of affective disturbance--the relationship between stress, antidepressants and expression of BDNF mRNA] Morinobu S, et al.
Seishin Shinkeigaku Zasshi 1996;98(11):937–42; discussion 942–6 (7 ref.) **(Jpn)**

[Gene expression controlled by neural activity] Tsuda M, et al. **Tanpakushitsu Kakusan Koso** 1997 Mar;42(4):632–42 (68 ref.) **(Jpn)**

METABOLISM

SHP-2 is involved in neurotrophin signaling. Okada N, et al. **Biochem Biophys Res Commun** 1996 Dec 13; 229(2):607–11

The depolarisation-induced release of [125I]BDNF from brain tissue. Androutsellis-Theotokis A, et al. **Brain Res** 1996 Dec 16;743(1–2):40–8

Increased brain-derived neurotrophic factor immunoreactivity in rat dorsal root ganglia and spinal cord following peripheral inflammation. Cho HJ, et al.
Brain Res 1997 Aug 1;764(1–2):269–72

Presence of brain-derived neurotrophic factor in brain and human and rat but not mouse serum detected by a sensitive and specific immunoassay. Radka SF, et al. **Brain Res** 1996 Feb 12;709(1):122–301

Glutamate release correlates with brain-derived neurotrophic factor and trkB mRNA expression in the CA1 region of rat hippocampus. Falkenberg T, et al.
Brain Res Mol Brain Res 1996 Dec;42(2):317–27

Expression of neurotrophins and their receptors in the developing and adult rat adrenal gland. Suter-Crazzolara C, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):351–5

Functional trkB neurotrophin receptors are intrinsic components of the adult brain postsynaptic density. Wu K, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):286–90

Brain-derived neurotrophic factor mRNA levels are up-regulated in hindlimb skeletal muscle of diabetic rats: effect of denervation. Fernyhough P, et al. **Exp Neurol** 1996 Oct;141(2):297–303

Astrocytes promote or impair the survival and function of embryonic ventral mesencephalon co-grafts: effects of astrocyte age and expression of recombinant brain-derived neurotrophic factor. Krobert K, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):511–23

Interactions between brain-derived neurotrophic factor and the TRKB receptor. Identification of two ligand binding domains in soluble TRKB by affinity separation and chemical cross-linking. Haniu M, et al. **J Biol Chem** 1997 Oct 3;272(40):25296–303

Brain-derived neurotrophic factor binding to the p75 neurotrophin receptor reduces TrkA signaling while increasing serine phosphorylation in the TrkA intracellular domain. MacPhee IJ, et al. **J Biol Chem** 1997 Sep 19; 272(38):23547–51

Differential expression of brain-derived neurotrophic factor and neurotrophin 3 mRNA in lingual papillae and taste buds indicates roles in gustatory and somatosensory innervation. Nosrat CA, et al. **J Comp Neurol** 1996 Dec 23;376(4):587–602

The survival response of mesencephalic dopaminergic neurons to the neurotrophins BDNF and NT-4 requires priming with serum: comparison with members of the TGF-beta superfamily and characterization of the serum-free culture system. Krieglstein K, et al.
J Neural Transm Suppl 1996;47:247–58

Distribution of brain-derived neurotrophic factor in rats and its changes with development in the brain. Katoh-Semba R, et al. **J Neurochem** 1997 Jul;69(1):34–42

BDNF and TrkB co-localize in CA1 neurons resistant to transient forebrain ischemia in the adult gerbil. Ferrer I, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):790–7

A distinct pattern of trophic factor expression in myelin-deficient nerves of Trembler mice: implications for trophic support by Schwann cells. Friedman HC, et al. **J Neurosci** 1996 Sep 1;16(17):5344–50

Brain-derived neurotrophic factor-like immunoreactivity is localized mainly in small sensory neurons of rat dorsal root ganglia. Barakat-Walter I. **J Neurosci Methods** 1996 Oct; 68(2):281–8

NGF and BDNF in the anterior pituitary lobe of adult rats. Höpker VH, et al. **J Neurosci Res** 1997 Aug 1;49(3):355–63

Structural determinants of Trk receptor specificities using BDNF-based neurotrophin chimeras. Lai KO, et al.
J Neurosci Res 1996 Dec 1;46(5):618–29

Corticosterone regulates expression of BDNF and trkB but not NT-3 and trkC mRNA in the rat hippocampus. Schaaf MJ, et al. **J Neurosci Res** 1997 May 15;48(4):334–41

BDNF/NT4-5 receptor TrkB and cadherin participate in cell-cell adhesion. Zhou H, et al. **J Neurosci Res** 1997 Aug 1;49(3):281–91

Regulated release and polarized localization of brain-derived neurotrophic factor in hippocampal neurons. Goodman LJ, et al. **Mol Cell Neurosci** 1996 Mar;7(3):222–38

Distribution of brain-derived neurotrophic factor in the rat pituitary gland. Conner JM, et al. **Neuroreport** 1996 Aug 12;7(12):1937–40

Dopaminergic regulation of BDNF content in the pituitary intermediate lobe. Höpker VH, et al. **Neuroreport** 1997 Mar 24;8(5):1089–93

Liposome-mediated BDNF cDNA transfer in intact and injured rat brain. Iwamoto Y, et al. **Neuroreport** 1996 Jan 31;7(2):609–12

Regional specificity of alterations in NGF, BDNF and NT-3 levels in Alzheimer's disease. Narisawa-Saito M, et al. **Neuroreport** 1996 Nov 25;7(18):2925–8

Trauma-induced striatal CNTF and BDNF mRNA in hemiparkinsonian rats. Plunkett RJ, et al. **Neuroreport** 1997 Jan 20;8(2):507–11

Anterograde transport of endogenous brain-derived neurotrophic factor in hippocampal mossy fibers. Smith MA, et al. **Neuroreport** 1997 May 27;8(8):1829–34

Administration of corticosterone alters intracellular localization of brain-derived neurotrophic factor-like immunoreactivity in the rat brain. Nitta A, et al.
Neurosci Lett 1997 Apr 25;226(2):115–8

Immunohistochemical localization of brain-derived neurotrophic factor in adult rat brain. Kawamoto Y, et al. **Neuroscience** 1996 Oct;74(4):1209–26

Comparative study of brain-derived neurotrophic factor messenger RNA and protein at the cellular level suggests multiple roles in hippocampus, striatum and cortex. Schmidt-Kastner R, et al. **Neuroscience** 1996 Sep; 74(1):161–83

Endogenous brain-derived neurotrophic factor is anterogradely transported in primary sensory neurons. Zhou XF, et al. **Neuroscience** 1996 Oct;74(4):945–53

PHARMACOKINETICS

Pharmacokinetics of intrathecally applied BDNF and effects on spinal motoneurons. Dittrich F, et al. **Exp Neurol** 1996 Oct;141(2):225–39

Retrograde transport of brain-derived neurotrophic factor (BDNF) following infusion in neo- and limbic cortex in rat: relationship to BDNF mRNA expressing neurons. Sobreviela T, et al. **J Comp Neurol** 1996 Nov 18; 375(3):417–44

Intrastriatal and intraventricular infusion of brain-derived neurotrophic factor in the cynomologous monkey: distribution, retrograde transport and co-localization with substantia nigra dopamine-containing neurons. Mufson EJ, et al. **Neuroscience** 1996 Mar;71(1):179–91

Carboxyl-directed pegylation of brain-derived neurotrophic factor markedly reduces systemic clearance with minimal loss of biologic activity. Sakane T, et al. **Pharm Res** 1997 Aug;14(8):1085–91

PHARMACOLOGY

Brain-derived neurotrophic factor reduces blood glucose level in obese diabetic mice but not in normal mice. Ono M, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):633–7

The effect of NGF, BDNF and bFGF on expression of galanin in cultured rat dorsal root ganglia. Kerekes N, et al. **Brain Res** 1997 Apr 18;754(1–2):131–41

NGF, BDNF and NT-5, but not NT-3 protect against MPP+ toxicity and oxidative stress in neonatal animals. Kirschner PB, et al. **Brain Res** 1996 Mar 25;713(1–2):178–85

BDNF prevents NO mediated glutamate cytotoxicity in cultured cortical neurons. Kume T, et al. **Brain Res** 1997 May 9;756(1–2):200–4

BDNF increases monoaminergic activity in rat brain following intracerebroventricular or intraparenchymal administration. Siuciak JA, et al. **Brain Res** 1996 Feb 26; 710(1–2):11–20

Signaling pathways and survival effects of BDNF and NT-3 on cultured cerebellar granule cells. Nonomura T, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):42–50

Permeability at the blood-brain and blood-nerve barriers of the neurotrophic factors: NGF, CNTF, NT-3, BDNF. Poduslo JF, et al. **Brain Res Mol Brain Res** 1996 Mar; 36(2):280–6

BDNF increases the expression of neuropeptide Y mRNA and promotes differentiation/maturation of neuropeptide Y-positive cultured cortical neurons from embryonic and postnatal rats. Takei N, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):283–9

Activation of Ras and protection from apoptotic cell death by BDNF in PC12 cells expressing TrkB. Jian Z, et al. **Cell Signal** 1996 Aug;8(5):365–70

Therapeutic potential of the neurotrophins and neurotrophin-CNTF combinations in peripheral neuropathies and motor neuron diseases. Lindsay RM.
Ciba Found Symp 1996;196:39–48; discussion 48–53 (41 ref.)

The developmental expression of neuronal nitric oxide synthase in cerebellar granule cells is sensitive to GABA and neurotrophins. Baader SL, et al. **Dev Neurosci** 1997; 19(3):283–90

Coordination of early neural tube development by BDNF/trkB. Jungbluth S, et al. **Development** 1997 May; 124(10):1877–85

Effects of BDNF and NT-4/5 on striatonigral neuropeptides or nigral GABA neurons in vivo. Arenas E, et al.
Eur J Neurosci 1996 Aug;8(8):1707–17

BDNF down-regulates neurotrophin responsiveness, TrkB protein and TrkB mRNA levels in cultured rat hippocampal neurons. Frank L, et al. **Eur J Neurosci** 1996 Jun;8(6):1220–30

Brain-derived neurotrophic factor reversed experience-dependent synaptic modifications in kitten visual cortex. Galuske RA, et al. **Eur J Neurosci** 1996 Jul; 8(7):1554–9

BDNF and NT-3, but not NGF, prevent axotomy-induced death of rat corticospinal neurons in vivo. Giehl KM, et al. **Eur J Neurosci** 1996 Jun;8(6):1167–75

Spontaneous behaviours of rats are differentially affected by substantia nigra infusions of brain-derived neurotrophic factor and neurotrophin-3. Martin-Iverson MT, et al.
Eur J Neurosci 1996 Aug;8(8):1696–706

Effects of BDNF infusion on the regulation of TrkB protein and message in adult rat brain. Frank L, et al.
Exp Neurol 1997 May;145(1):62–70

Effects of donor age and brain-derived neurotrophic factor on the survival of dopaminergic neurons and axonal growth in postnatal rat nigrostriatal cocultures. Ostergaard K, et al. **Exp Neurol** 1996 Dec;142(2):340–50

5-Azacytidine and BDNF enhance the maturation of neurons derived from EGF-generated neural stem cells. Schinstine M, et al. **Exp Neurol** 1997 Apr;144(2):315–25

Inhibition of protein phosphatases induces IGF-1-blocked neurotrophin-insensitive neuronal apoptosis.
Fernández-Sánchez MT, et al. **FEBS Lett** 1996 Nov 25; 398(1):106–12

Amphiphilic helix is essential for the activity of brain injury-derived neurotrophic peptide (BINP). Hama T, et al. **FEBS Lett** 1996 Nov 4;396(2–3):143–6

Brain-derived neurotrophic factor increases Ca2+/calmodulin-dependent protein kinase 2 activity in hippocampus. Blanquet PR, et al. **J Biol Chem** 1997 Sep 26;272(39):24133–6

Neuronal precursors of the adult rat subependymal zone persist into senescence, with no decline in spatial extent or response to BDNF. Goldman SA, et al. **J Neurobiol** 1997 Jun 5;32(6):554–66

Neurotrophic effects of BDNF and CNTF, alone and in combination, on postnatal day 5 rat acoustic ganglion neurons. Hartnick CJ, et al. **J Neurobiol** 1996 Jun; 30(2):246–54

Induction of a distinct morphology and signal transduction in TrkB/PC12 cells by nerve growth factor and

brain-derived neurotrophic factor. Iwasaki Y, et al. **J Neurochem** 1997 Mar;68(3):927-34

Brain-derived neurotrophic factor increases the stimulation-evoked release of glutamate and the levels of exocytosis-associated proteins in cultured cortical neurons from embryonic rats. Takei N, et al. **J Neurochem** 1997 Jan;68(1):370-5

Neurotrophin protection against toxicity induced by low potassium and nitroprusside in cultured cerebellar granule neurons. Yu O, et al. **J Neurochem** 1997 Jan;68(1):68-77

Modulation of motoneuron excitability by brain-derived neurotrophic factor. Gonzalez M, et al. **J Neurophysiol** 1997 Jan;77(1):502-6

Hyperexcitability in combined entorhinal/hippocampal slices of adult rat after exposure to brain-derived neurotrophic factor. Scharfman HE. **J Neurophysiol** 1997 Aug; 78(2):1082-95

Brain-derived neurotrophic factor enhances long-term potentiation in rat visual cortex. Akaneya Y, et al. **J Neurosci** 1997 Sep 1;17(17):6707-16

Signal transduction mediated by the truncated trkB receptor isoforms, trkB.T1 and trkB.T2. Baxter GT, et al. **J Neurosci** 1997 Apr 15;17(8):2683-90

Expression of specific tubulin isotypes increases during regeneration of injured CNS neurons, but not after the application of brain-derived neurotrophic factor (BDNF). Fournier AE, et al. **J Neurosci** 1997 Jun 15;17(12):4623-32

Trophic support of cultured spiral ganglion neurons by depolarization exceeds and is additive with that by neurotrophins or cAMP and requires elevation of [Ca2+]i within a set range. Hegarty JL, et al. **J Neurosci** 1997 Mar 15;17(6):1959-70

Acute morphogenic and chemotropic effects of neurotrophins on cultured embryonic Xenopus spinal neurons. Ming GI, et al. **J Neurosci** 1997 Oct 15; 17(20):7860-71

Brain-derived neurotrophic factor mediates the activity-dependent regulation of inhibition in neocortical cultures. Rutherford LC, et al. **J Neurosci** 1997 Jun 15; 17(12):4527-35

Inhibition of GABAA synaptic responses by brain-derived neurotrophic factor (BDNF) in rat hippocampus. Tanaka T, et al. **J Neurosci** 1997 May 1;17(9):2959-66

Interaction of NT-4 and BDNF with gp145trkb receptor: effect on cellular metabolism. Hopkins MA, et al. **J Neurosci Methods** 1997 Apr 4;72(2):167-74

Standardized methods to bioassay neurotrophic factors for dopaminergic neurons. Takeshima T, et al. **J Neurosci Methods** 1996 Jul;67(1):27-41

Brain-derived neurotrophic factor modulates GAP-43 but not T alpha1 expression in injured retinal ganglion cells of adult rats. Fournier AE, et al. **J Neurosci Res** 1997 Mar 15;47(6):561-72

Brain-derived neurotrophic factor spares choline acetyltransferase mRNA following axotomy of motor neurons in vivo. Wang W, et al. **J Neurosci Res** 1997 Jan 15;47(2):134-43

Brain-derived neurotrophic factor and nerve growth factor potentiate excitatory synaptic transmission in the rat visual cortex. Carmignoto G, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):153-64

Endothelin production in cultured vascular smooth muscle cells--modulation by the atrial, brain, and C-type natriuretic peptide system. Hanehira T, et al. **Metabolism** 1997 May;46(5):487-93

NGF but not NT-3 or BDNF prevents the A fiber sprouting into lamina II of the spinal cord that occurs following axotomy. Bennett DL, et al. **Mol Cell Neurosci** 1996; 8(4):211-20

The effects of intrahippocampal BDNF and NGF on spatial learning in aged Long Evans rats. Pelleymounter MA, et al. **Mol Chem Neuropathol** 1996 Oct-Dec;29(2-3):211-26

Brain-derived neurotrophic factor suppresses programmed death of cerebellar granule cells through a posttranslational mechanism. Suzuki K, et al. **Mol Chem Neuropathol** 1997 Jan-Feb;30(1-2):101-24

Neurotrophin regulation of cortical dendritic growth requires activity. McAllister AK, et al. **Neuron** 1996 Dec; 17(6):1057-64

Effects of neurotrophins on early auditory neurones in cell culture. Malgrange B, et al. **Neuroreport** 1996 Mar 22; 7(4):913-7

Enhancement of NMDA receptor maturation by BDNF in cultured mouse cerebellar granule cells. Muzet M, et al. **Neuroreport** 1996 Jan 31;7(2):548-52

Brain derived neurotrophic factor induces a rapid upregulation of synaptophysin and tau proteins via the neurotrophin receptor TrkB in rat cerebellar granule cells. Coffey ET, et al. **Neurosci Lett** 1997 May 23;227(3):177-80

Brain-derived neurotrophic factor reduces necrotic zone and supports neuronal survival after spinal cord hemisection in adult rats. Novikova L, et al. **Neurosci Lett** 1996 Dec 20;220(3):203-6

Brain-derived neurotrophic factor, but not neurotrophin-3, prevents ischaemia-induced neuronal cell death in organotypic rat hippocampal slice cultures. Pringle AK, et al. **Neurosci Lett** 1996 Jun 28;211(3):203-6

NGF and BDNF increase the immunoreactivity of vesicular acetylcholine transporter in cultured neurons from the embryonic rat septum. Takei N, et al. **Neurosci Lett** 1997 May 2;226(3):207-9

Brain-derived neurotrophic factor induced stimulation of septal choline acetyltransferase activity in ethylcholine mustard aziridinium treated rats. Willson CA, et al. **Neurosci Lett** 1997 Jul 4;229(3):149-52

Effects of nerve growth factor, brain-derived neurotrophic factor and neurotrophin-3 on the laminar distribution of transganglionically fransported choleragenoid in the spinal cord dorsal horn following transection of the sciatic nerve in the adult rat. Eriksson NP, et al. **Neuroscience** 1997 Jun; 78(3):863-72

Brain-derived neurotrophic factor regulates maturation of the DARPP-32 phenotype in striatal medium spiny neurons: studies in vivo and in vitro. Ivkovic S, et al. **Neuroscience** 1997 Jul;79(2):509-16

Dentate granule cell layer collagen explant cultures: spontaneous axonal growth and induction by brain-derived neurotrophic factor or basic fibroblast growth factor. Lowenstein DH, et al. **Neuroscience** 1996 Oct; 74(4):1197-208

Brain-derived neurotrophic factor promotes axonal regeneration and long-term survival of adult rat spinal motoneurons in vivo. Novikov L, et al. **Neuroscience** 1997 Aug;79(3):765-74

Central infusions of brain-derived neurotrophic factor and neurotrophin-4/5, but not nerve growth factor and neurotrophin-3, prevent loss of the cholinergic phenotype in injured adult motor neurons. Tuszynski MH, et al. **Neuroscience** 1996 Apr;71(3):761-71

Differential regulation of substance P by all members of the nerve growth factor family of neurotrophins in avian dorsal root ganglia throughout development. Yao L, et al. **Neuroscience** 1997 Aug;79(4):1197-206

Antidepressant-like effect of brain-derived neurotrophic factor (BDNF). Siuciak JA, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):131-7

Brain-derived neurotrophic factor regulates expression of androgen receptors in perineal motoneurons. Al-Shamma HA, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1521-6

Chronic morphine induces visible changes in the morphology of mesolimbic dopamine neurons. Sklair-Tavron L, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11202-7

Brain-derived neurotrophic factor rapidly enhances phosphorylation of the postsynaptic N-methyl-D-aspartate receptor subunit 1. Suen PC, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8191-5

[The effect of brain-derived neurotrophic factor on elongation of axons after transection with suture-morphometric evaluation] Ohnishi A, et al. **Sangyo Ika Daigaku Zasshi** 1997 Mar 1;19(1):23-8 (Eng. Abstr.) **(Jpn)**

[The effect of brain-derived neurotrophic factor on regeneration of nerve fibers after crush injury--morphometric evaluation] Ohnishi A, et al. **Sangyo Ika Daigaku Zasshi** 1996 Dec 1;18(4):261-71 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Implications of neurotrophin supported auditory neuron survival for maintenance of the tonotopic organization of the central auditory pathway. Reser DH, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):239-43

The role of the neurotrophins in maturation and maintenance of postnatal auditory innervation. Staecker H, et al. **Am J Otol** 1996 May;17(3):486-92

Marked age-dependent neuroprotection by brain-derived neurotrophic factor against neonatal hypoxic-ischemic brain injury. Cheng Y, et al. **Ann Neurol** 1997 Apr; 41(4):521-9

A molecular and cellular theory of depression [see comments] Duman RS, et al. **Arch Gen Psychiatry** 1997 Jul; 54(7):597-606 (91 ref.). Comment in: Arch Gen Psychiatry 1997 Jul;54(7):607-8.

Hippocampal vulnerability to stress and aging: possible role of neurotrophic factors. Smith MA. **Behav Brain Res** 1996 Jun;78(1):25-36 (116 ref.)

Selective acid vulnerability of dopaminergic neurons and its recovery by brain-derived neurotrophic factor. Akaneya Y, et al. **Brain Res** 1995 Dec 18;704(2):175-83

Interactions of neurotrophic factors GDNF and NT-3, but not BDNF, with the immune system following fetal spinal cord transplantation. Shinoda M, et al. **Brain Res** 1996 May 25;722(1-2):153-67

NGF, BDNF and NT-3 play unique roles in the in vitro development and patterning of innervation of the mammalian inner ear. Staecker H, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):49-60

Influence of BDNF on the expression of the dopaminergic phenotype of tissue used for brain transplants. Zhou J, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):43-51

The mesolimbic dopaminergic pathway is more resistant than the nigrostriatal dopaminergic pathway to MPTP and MPP+ toxicity: role of BDNF gene expression. Hung HC, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):14-26

The cellular patterns of BDNF and trkB expression suggest multiple roles for BDNF during Xenopus visual system development. Cohen-Cory S, et al. **Dev Biol** 1996 Oct 10; 179(1):102-15

Expression of trkB neurotrophin receptor during T cell development. Role of brain derived neurotrophic factor in immature thymocyte survival. Maroder M, et al. **J Immunol** 1996 Oct 1;157(7):2864-72

Brain-derived neurotrophic factor blocks long-term depression in rat visual cortex. Akaneya Y, et al. **J Neurophysiol** 1996 Dec;76(6):4198-201

Neurotrophin signal transduction in medulloblastoma. Chou TT, et al. **J Neurosci Res** 1997 Sep 1;49(5):522-7 (51 ref.)

The involvement of brain-derived neurotrophic factor in hippocampal long-term potentiation revealed by gene targeting experiments. Korte M, et al. **J Physiol Paris** 1996; 90(3-4):157-64

A paracrine effect for neuron-derived BDNF in development of dorsal root ganglia: stimulation of Schwann cell myelin protein expression by glial cells. Pruginin-Bluger M, et al. **Mech Dev** 1997 Jan;61(1-2):99-111

Activity-dependent synaptic plasticity: a new face of action for neurotrophins [news] Korte M, et al. **Mol Psychiatry** 1997 May;2(3):197-9

A brain-derived neurotrophic factor (BDNF) related system is involved in the maintenance of the polyinnervate Torpedo electric organ. Canals JM, et al. **Neurochem Int** 1997 Jul;31(1):33-8

Synaptic innervation density is regulated by neuron-derived BDNF. Causing CG, et al. **Neuron** 1997 Feb;18(2):257-67

Opposing roles for endogenous BDNF and NT-3 in regulating cortical dendritic growth. McAllister AK, et al. **Neuron** 1997 May;18(5):767-78

Abnormal cerebellar development and foliation in BDNF-/- mice reveals a role for neurotrophins in CNS patterning. Schwartz PM, et al. **Neuron** 1997 Aug;19(2):269-81

BDNF is required for the normal development of taste neurons in vivo. Zhang C, et al. **Neuroreport** 1997 Mar 3;8(4):1013-7

N-Shc: a neural-specific adapter molecule that mediates signaling from neurotrophin/Trk to Ras/MAPK pathway. Nakamura T, et al. **Oncogene** 1996 Sep 19;13(6):1111-21

Suppression of trkB expression by antisense oligonucleotides alters a neuronal phenotype in the rod pathway of the developing rat retina. Rickman DW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12564-9

[Neurotrophin and synaptic plasticity] Takei N, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):481-8 (47 ref.) **(Jpn)**

THERAPEUTIC USE

BDNF prevents and reverses adult rat motor neuron degeneration and induces axonal outgrowth. Kishino A, et al. **Exp Neurol** 1997 Apr;144(2):273-86

Simultaneous treatment with BDNF and CNTF after peripheral nerve transection and repair enhances rate of functional recovery compared with BDNF treatment alone. Lewin SL, et al. **Laryngoscope** 1997 Jul;107(7):992-9

NT-3 and/or BDNF therapy prevents loss of auditory neurons following loss of hair cells. Staecker H, et al. **Neuroreport** 1996 Mar 22;7(4):889-94

BRAIN DISEASES

see related

ORGANIC MENTAL DISORDERS, PSYCHOTIC

Haemorrhagic shock and encephalopathy syndrome [editorial; comment] Holmberg L. **Acta Paediatr** 1996 May; 85(5):535-6. Comment on: Acta Paediatr 1996 May;85(5):632-4.

Annotated bibliography. Altman N, et al. **AJNR Am J Neuroradiol** 1997 Jun-Jul;18(6):1196-9

Iron overload is a risk factor for zygomycosis. McNab AA, et al. **Arch Ophthalmol** 1997 Jul;115(7):919-21

Plasma cell granulomas of the brain: pediatric case presentation and review of the literature. Tresser N, et al. **Childs Nerv Syst** 1996 Jan;12(1):52-7 (43 ref.)

Diabetes and the nervous system. Harati Y. **Endocrinol Metab Clin North Am** 1996 Jun;25(2):325-59 (295 ref.)

Two rare parasites of the human brain--Gnathostoma spinigerum and sparganum (Spirometra). Sharma MC, et al. **J Assoc Physicians India** 1996 Nov;44(11):824-8

Medical conditions & driving: legal requirements & approach of neurologists. Mclachlan RS. **Med Law** 1997;16(2):269-75

Neurodegenerative Disorders: Common Molecular Mechanisms. The Decade of the Brain: Midpoint. Proceeding of a symposium. Ocho Rios, Jamaica, April 2-7, 1995. **Mol Chem Neuropathol** 1996 May-Aug; 28(1-3):1-307

Global brain dysfunction in an infant with pyridoxine dependency: evaluation with EEG, evoked potentials, MRI, and PET. Shih JJ, et al. **Neurology** 1996 Sep; 47(3):824-6

Neurologic decompression illness: a gravity score. Boussuges A, et al. **Undersea Hyperb Med** 1996 Sep;23(3):151-5

[Postoperative suppurative complications in intracranial interventions] Nurzhikov SR, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Apr-Jun; (2):28-30 (74 ref.) **(Rus)**

[Parinaud's syndrome: causes and pathophysiologic mechanisms in patients] Kovačević MS, et al. **Vojnosanit Pregl** 1996 Jul-Aug;53(4):335-40 **(Scr)**

[Receptors localization in human brain: contribution to neurochemistry of normal aging and neurodegenerative diseases] Pazos A. **Rev Neurol** 1997 Jul;25 Suppl 1:S28-32 (28 ref.) **(Spa)**

BLOOD

Atrial natriuretic peptide in multiple system atrophy.

Bevilacqua M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1047–53

CEREBROSPINAL FLUID

Hyaluronan in human cerebrospinal fluid. Laurent UB, et al. **Acta Neurol Scand** 1996 Sep;94(3):194–206

Cerebrospinal fluid soluble interleukin-2 receptor in cerebral lupus. Gilad R, et al. **Br J Rheumatol** 1997 Feb;36(2):190–3

Infrarenal aortic aneurysms [letter; comment] Hoch RC. **N Engl J Med** 1997 Jun 12;336(24):1757; discussion 1757–8 . Comment on: N Engl J Med 1997 Jan 2;336(1):59–60.

Cerebrospinal fluid creatine kinase BB isoenzyme activity and neurologic prognosis after cardiac arrest. Tirschwell DL, et al. **Neurology** 1997 Feb;48(2):352–7

[Humoral response of the local immune system of the cerebrospinal fluid in brain disease] Starchenko AA, et al. **Fiziol Cheloveka** 1996 Jul–Aug;22(4):58–65 **(Rus)**

CHEMICALLY INDUCED

Effects of MRI abnormalities on WAIS-R performance in solvent abusers. Yamanouchi N, et al. **Acta Neurol Scand** 1997 Jul;96(1):34–9

Delayed spongiform leukoencephalopathy after heroin abuse. Rizzuto N, et al. **Acta Neuropathol (Berl)** 1997 Jul; 94(1):87–90

Trihexyphenidyl withdrawal encephalopathy [letter] Johkura K, et al. **Ann Neurol** 1997 Jan;41(1):133–4

Ifosfamide encephalopathy and methylene-blue: a case report [letter] Alonso JL, et al. **Ann Oncol** 1996 Aug;7(6):643–4

Possible toxic encephalopathy following high-dose intravenous haloperidol. Maxa JL, et al. **Ann Pharmacother** 1997 Jun;31(6):736–7

Acute lead encephalopathy in early infancy--clinical presentation and outcome. al Khayat A, et al. **Ann Trop Paediatr** 1997 Mar;17(1):39–44

High-dose 5-fluorouracil infusional therapy is associated with hyperammonaemia, lactic acidosis and encephalopathy [letter] Yeh KH, et al. **Br J Cancer** 1997; 75(3):464–5

The ontogeny of a neurotoxic lesion in rat brain revealed by combined MRI and histology. Ben-Horin N, et al. **Brain Res** 1996 Apr 29;718(1–2):97–104

The temporal evolution of neuronal damage from pilocarpine-induced status epilepticus. Fujikawa DG. **Brain Res** 1996 Jun 24;725(1):11–22

Contrast-induced encephalopathy and seizures in a patient with chronic renal insufficiency. Muruve DA, et al. **Clin Nephrol** 1996 Jun;45(6):406–9

Disorders of brain development in the progeny of mothers who used alcohol during pregnancy. Konovalov HV, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):153–66

Environmental toxins and the brain [news] Medlin J. **Environ Health Perspect** 1996 Aug;104(8):822–3

Methylene blue and the neurotoxic mechanisms of ifosfamide encephalopathy. Küpfer A, et al. **Eur J Clin Pharmacol** 1996;50(4):249–52

Chronic carbon disulfide encephalopathy. Huang CC, et al. **Eur Neurol** 1996;36(6):364–8

Morphological features of encephalopathy after chronic administration of the antiepileptic drug valproate to rats. A transmission electron microscopic study of capillaries in the cerebellar cortex. Sobaniec-Lotowska ME, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):65–75

Cyclosporine-related encephalopathy following allogeneic bone marrow transplantation. Teshima T, et al. **Int J Hematol** 1996 Feb;63(2):161–4

Neurotoxicological evaluation of ethyl tertiary-butyl ether following subchronic (90-day) inhalation in the Fischer 344 rat. Dorman DC, et al. **J Appl Toxicol** 1997 Jul–Aug; 17(4):235–42

Lithium and neuroleptics in combination: is there enhancement of neurotoxicity leading to permanent sequelae? Goldman SA. **J Clin Pharmacol** 1996 Oct; 36(10):951–62

MR enhancing brain lesions in methanol intoxication. Anderson CA, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):834–6

Leukoencephalopathy after inhalation of heroin vapor. Chang YJ, et al. **J Formos Med Assoc** 1997 Sep; 96(9):758–60

Radical trapping and inhibition of iron-dependent CNS damage by cyclic nitrone spin traps. Thomas CE, et al. **J Neurochem** 1997 Mar;68(3):1173–82

Triphasic waves in serotonin syndrome [letter] Dike GL. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):200

Experimental benznidazole encephalopathy: II. Electroencephalographic and morphological alterations. Flores-Vieira CL, et al. **J Neurol Sci** 1997 Sep 1; 150(1):13–25

Experimental benznidazole encephalopathy: I. Clinical-neurological alterations. Flores-Vieira CL, et al. **J Neurol Sci** 1997 Sep 1;150(1):3–11

Piperacillin-induced encephalopathy [letter] Park-Matsumoto YC, et al. **J Neurol Sci** 1996 Sep 1; 140(1–2):141–2

Chronic internuclear ophthalmoplegia. A manifestation of D-penicillamine cerebral vasculitis. Pless M, et al. **J Neuroophthalmol** 1997 Mar;17(1):44–6

Kainate-induced brain lesion: similar local and remote histopathological and molecular changes as in ischemic brain infarct. Liu HM, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):787–94

The pathology of the ring-substituted amphetamine analogue 3,4-methylenedioxymethylamphetamine (MDMA, 'Ecstasy') [editorial] Rutty GN, et al. **J Pathol** 1997 Mar; 181(3):255–6

Potentiation of organophosphorus compound-induced delayed neurotoxicity (OPIDN) in the central and peripheral nervous system of the adult hen: distribution of axonal lesions. Randall JC, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):571–90

3-Hydroxykynurenine toxicity on the rat striatum in vivo. Nakagami Y, et al. **Jpn J Pharmacol** 1996 Jun;71(2):183–6

Late-onset fatal acute leucoencephalopathy in liver transplant recipient [letter] Fisher NC, et al. **Lancet** 1997 Jun 28;349(9069):1884–5

Subacute encephalopathic toxicity of cisplatin. Verschraegen C, et al. **Lung Cancer** 1995 Dec;13(3):305–9 (13 ref.)

Development of brain damage after neonatal hypoxia-ischemia: excitatory amino acids and cysteine. Puka-Sundvall M, et al. **Metab Brain Dis** 1996 Jun; 11(2):109–23

Heroin inhalation and progressive spongiform leukoencephalopathy [letter] Kriegstein AR, et al. **N Engl J Med** 1997 Feb 20;336(8):589–90

Erythropoietin-associated hypertensive posterior leukoencephalopathy. Delanty N, et al. **Neurology** 1997 Sep;49(3):686–9

Multiple cerebral lesions complicating therapy with interleukin-2. Karp BI, et al. **Neurology** 1996 Aug; 47(2):417–24

Subclinical vestibulo-cerebellar, anterior cerebellar lobe and spinocerebellar effects in lead workers in relation to concurrent and past exposure. Yokoyama K, et al. **Neurotoxicology** 1997;18(2):371–80

Status of the neonatal rat brain after NMDA-induced excitotoxic injury as measured by MRI, MRS and metabolic imaging. Dijkhuizen RM, et al. **NMR Biomed** 1996 Apr;9(2):84–92

Evaluation of the Q16 questionnaire on neurotoxic symptoms and a review of its use. Lundberg I, et al. **Occup Environ Med** 1997 May;54(5):343–50

Developmental models of brain dysfunctions induced by targeted cellular ablations with methylazoxymethanol. Cattabeni F, et al. **Physiol Rev** 1997 Jan;77(1):199–215 (145 ref.)

Neuropsychiatric manifestations following the use of 3,4-methylenedioxymethamphetamine (MDMA: "Ecstasy"). Cohen RS, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 May; 21(4):727–34

Are deficits in the equilibrium system relevant to the clinical investigation of solvent-induced neurotoxicity? Niklasson M, et al. **Scand J Work Environ Health** 1997 Jun; 23(3):206–13

Glutathione S-transferase M1 null genotype as a risk modifier for solvent-induced chronic toxic encephalopathy. Söderkvist P, et al. **Scand J Work Environ Health** 1996 Oct;22(5):360–3

Addiction is a brain disease, and it matters. Leshner AI. **Science** 1997 Oct 3;278(5335):45–7

[Acute encephalomyopathy and persistent cerebellar syndrome after lithium salt and haloperidol poisoning] Gille M, et al. **Rev Neurol (Paris)** 1997 May;153(4):268–70 (Eng. Abstr.) **(Fre)**

[Pharmacovigilance of new antidepressants: evaluation of neuro-psychobehavioral disorders] Blayac JP, et al. **Therapie** 1997 Mar–Apr;52(2):117–22 (Eng. Abstr.) **(Fre)**

[Methylene blue in ifosfamide-induced encephalopathy (letter)] Koschuth A, et al. **Dtsch Med Wochenschr** 1996 Sep 27;121(39):1210 **(Ger)**

[Collateral effects of disulfiram on the central nervous system in alcoholics that have become totally abstemious. Description of 8 cases] Maccari S, et al. **Ann Ital Med Int** 1996 Oct–Dec;11(4):279–83 (Eng. Abstr.) **(Ita)**

[Leukoencephalopathy probably caused by tacrolimus hydrate after stem cell transplantation in a girl with MDS 7 monosomy] Yoshimoto T, et al. **Rinsho Ketsueki** 1997 Jul;38(7):616–21 (Eng. Abstr.) **(Jpn)**

[Neurologic complications in heroin abuse. Illustrated by two unusual cases] Celius EG. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):356–7 (Eng. Abstr.) **(Nor)**

[Cerebral vasculitis and cocaine consumption (letter)] Epelde Gonzalo F. **An Med Interna** 1996 Oct;13(10):512 **(Spa)**

COMPLICATIONS

Epilepsy: structural or functional? [letter; comment] [see comments] Stevens JM. **AJNR Am J Neuroradiol** 1996 Feb; 17(2):243. Comment on: AJNR Am J Neuroradiol 1995 Apr;16(4):644–6. Comment in: AJNR Am J Neuroradiol 1996 Feb;17(2):243–4. Comment in: AJNR Am J Neuroradiol 1996 Feb;17(2):244–5. Comment in: AJNR Am J Neuroradiol 1996 Feb;17(2):245–6. Comment in: AJNR Am J Neuroradiol 1996 Feb;17(2):246.

Central diabetes insipidus: a complication of ventriculoperitoneal shunt malfunction during pregnancy. Goolsby L, et al. **Am J Obstet Gynecol** 1996 May; 174(5):1655–7

Neuronal migration disorder presenting with epilepsy: a report of five illustrative cases. Chee MW, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):887–90

Anaphylaxis and cerebral hyadatidic disease [letter] Diaz de Durana MD, et al. **Ann Intern Med** 1997 May 1;126(9):745

High prevalence of serological markers of cysticercosis among epileptic Malagasy children. Grill J, et al. **Ann Trop Paediatr** 1996 Sep;16(3):185–91

Neurocysticercosis among patients with cerebral gliomas. Del Brutto OH, et al. **Arch Neurol** 1997 Sep;54(9):1125–8

Theoretical neurobiology and schizophrenia. Friston KJ. **Br Med Bull** 1996 Jul;52(3):644–55

Temporal lobe epilepsy caused by mesial temporal sclerosis and temporal neocortical lesions. A clinical and electroencephalographic study of 46 pathologically proven cases. O'Brien TJ, et al. **Brain** 1996 Dec;119 (Pt 6):2133–41

Two different pathological conditions of photoparoxysmal responses in hereditary dentatorubral-pallidoluysian atrophy. Takahashi Y, et al. **Brain Dev** 1997 Jun;19(4):285–9

Episodic symptoms in dysfunctioning children and adolescents following mild and severe traumatic brain injury. Roberts MA, et al. **Brain Inj** 1996 Oct;10(10):739–47

Cerebral mucormycosis associated with intravenous drug use [letter] Cuadrado LM. **Clin Infect Dis** 1996 Jan;22(1):198

Neurocysticercosis: a major cause of neurological disease worldwide. White AC Jr. **Clin Infect Dis** 1997 Feb; 24(2):101–13; quiz 114–5 (87 ref.)

Tizanidine. A review of its pharmacology, clinical efficacy and tolerability in the management of spasticity associated with cerebral and spinal disorders. Wagstaff AJ, et al. **Drugs** 1997 Mar;53(3):435–52 (112 ref.)

Co-existence of cerebral cysticercosis with Japanese encephalitis: a prognostic modulator. Desai A, et al. **Epidemiol Infect** 1997 Apr;118(2):165–71

Speech, language, and the cerebellum. Gordon N. **Eur J Disord Commun** 1996;31(4):359–67

Late-onset epileptic seizures in patients with leukoaraiosis: a positron emission tomographic study. De Reuck J, et al. **Eur Neurol** 1996;36(1):20–4

Paroxysmal headache caused by colloid cyst of the third ventricle: case report and review of the literature. Young WB, et al. **Headache** 1997 Jan;37(1):15–20 (31 ref.)

Changes in deglutition following tonsillectomy in neurologically impaired children. Conley SF, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jun;36(1):13–21

Grey matter heterotopia: an unusual association of intractable epilepsy. Stafford Johnson DB, et al. **Ir J Med Sci** 1997 Jul–Sep;166(3):135–8

Colloid cyst of the third ventricle. Hwang DH, et al. **J Am Optom Assoc** 1996 Apr;67(4):227–34 (53 ref.)

Hemorrhage in intracranial epidermoid cyst. Hsieh CH, et al. **J Formos Med Assoc** 1996 Feb;95(2):173–5

Lack of major hypoxia and significant brain damage in rats despite dramatic hyponatremic encephalopathy. Soupart A, et al. **J Lab Clin Med** 1997 Aug;130(2):226–31

Cerebral ocular motor signs. Pierrot-Deseilligny C, et al. **J Neurol** 1997 Feb;244(2):65–70 (46 ref.)

Urodynamic and neurophysiological evaluation in Parkinson's disease and multiple system atrophy. Stocchi F, et al. **J Neurol Neurosurg Psychiatry** 1997 May; 62(5):507–11

Eyelid lag without eyelid retraction in pretectal disease. Galetta SL, et al. **J Neuroophthalmol** 1996 Jun;16(2):96–8

Clinical, motor, and biological correlates of depressive disorders after focal subcortical lesions. Lauterbach EC, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring; 9(2):259–66

Neurodevelopmental dysfunction among nonreferred children with idiopathic megalencephaly. Sandler AD, et al. **J Pediatr** 1997 Aug;131(2):320–4

Occipital cerebral calcifications and celiac disease: an additional case. Vignolo M, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):194–6

Trochlear nerve palsy associated with superficial siderosis of the central nervous system. Shinmei Y, et al. **Jpn J Ophthalmol** 1997 Jan–Feb;41(1):19–22

Urinary disturbances in striatonigral degeneration and Parkinson's disease: clinical and urodynamic aspects. Bonnet AM, et al. **Mov Disord** 1997 Jul;12(4):509–13

Focal dystonia secondary to superficial siderosis. Cockerell OC, et al. **Mov Disord** 1996 Jul;11(4):452–3

Cerebral cysticercosis manifesting as hydrocephalus--case report. Oka Y, et al. **Neurol Med Chir (Tokyo)** 1996 Sep; 36(9):654–8 (29 ref.)

Torsional eye movements in patients with skew deviation and spasmodic torticollis: responses to static and dynamic head roll. Averbuch-Heller L, et al. **Neurology** 1997 Feb; 48(2):506–14

Obsessive-compulsive disorder associated with brain lesions: clinical phenomenology, cognitive function, and anatomic correlates [published erratum appears in Neurology 1996 Sep;47(3):855] Berthier ML, et al. **Neurology** 1996 Aug; 47(2):353–61

Long-term follow-up after temporal lobe resection for lesions associated with chronic seizures [published erratum appears in Neurology 1997 Sep;49(3):904] Eliashiv SD, et al. **Neurology** 1997 May;48(5):1383–8

Long-term follow-up after temporal lobe resection for lesions associated with chronic seizures [published erratum appears in Neurology 1997 Sep;49(3):904] Eliashiv SD, et al. **Neurology** 1997 Mar;48(3):621–6

Headache in intracerebral hematomas. Melo TP, et al. **Neurology** 1996 Aug;47(2):494–500

"Gourmand syndrome": eating passion associated with right anterior lesions. Regard M, et al. **Neurology** 1997 May; 48(5):1185–90 (52 ref.)

Ehlers-Danlos syndrome with subependymal periventricular heterotopias. Thomas P, et al. **Neurology** 1996 Apr; 46(4):1165-7

Etiology and early prognosis of newly diagnosed partial seizures in adults: a quantitative hippocampal MRI study. Van Paesschen W, et al. **Neurology** 1997 Sep;49(3):753-7

Widespread dilatation of perivascular spaces: a leukoencephalopathy causing dementia. Vital C, et al. **Neurology** 1997 May;48(5):1310-3

Critical commentary to "coexistence of plasma cell granulomas of lung and central nervous system" [comment] Gullotta F. **Pathol Res Pract** 1995 Oct;191(10):1046. Comment on: Pathol Res Pract 1995 Oct;191(10):1038-45.

Coexistence of plasma cell granulomas of lung and central nervous system [see comments] Le Marc'hadour F, et al. **Pathol Res Pract** 1995 Oct;191(10):1038-45. Comment in: Pathol Res Pract 1995 Oct;191(10):1046. Comment in: Pathol Res Pract 1995 Oct;191(10):1047.

Headache as a symptom of ominous disease. What are the warning signals? Dodick D. **Postgrad Med** 1997 May; 101(5):46-50, 55-6, 62-4 (9 ref.)

Taking issue with Taking Issue: "psychiatric survivors" reconsidered [letter; comment] Emerick RE. **Psychiatr Serv** 1997 May;48(5):602-3; discussion 605. Comment on: Psychiatr Serv 1997 Feb;48(2):143.

Age differences of psychiatric inpatients presenting with physical complications. Nagatomo I, et al. **Psychiatry Clin Neurosci** 1996 Oct;50(5):243-6

Clinical significance of neurocysticercosis in endemic villages. The Cysticercosis Working Group in Peru. García HH, et al. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr; 91(2):176-8

[Several patients with memory disorders (letter; comment)] Jansen Steur EN. **Ned Tijdschr Geneeskd** 1997 Apr 26; 141(17):844. Comment on: Ned Tijdschr Geneeskd 1997 Feb 22;141(8):361-4. **(Dut)**

[Celiac disease, cerebral calcifications and epilepsy syndrome] Cuvellier JC, et al. **Arch Pediatr** 1996 Oct;3(10):1013-9 (39 ref.) (Eng. Abstr.) **(Fre)**

[Agrypnia (organic insomnia)] Autret A, et al. **Neurophysiol Clin** 1995;25(6):360-6 (37 ref.) (Eng. Abstr.) **(Fre)**

[Sensory Jacksonian seizures as initial manifestation of sarcoidosis] Meincke U, et al. **Nervenarzt** 1996 Oct; 67(10):883-5 (Eng. Abstr.) **(Ger)**

[Syncopes from the neurologic viewpoint] Scollo-Lavizzari G, et al. **Ther Umsch** 1997 Mar;54(3):135-43 (9 ref.) (Eng. Abstr.) **(Ger)**

[Idiopathic plasmacytic lymphadenopathy with polyclonal hyperimmunoglobulinemia in a patient who died of progressive peripheral polyneuritis and cerebral dysfunction] Kishimoto K, et al. **Rinsho Ketsueki** 1997 Feb; 38(2):117-23 (Eng. Abstr.) **(Jpn)**

[A case of plasma cell granuloma associated with cerebral infarction] Konishi H, et al. **Rinsho Shinkeigaku** 1996 Jul; 36(7):854-7 (Eng. Abstr.) **(Jpn)**

[Multicystic encephalopathy with frontal lobe-originated gelastic seizure, ipsilateral oculogyric crisis, and horizontal epileptic nystagmus: an autopsy case] Ohara K, et al. **Rinsho Shinkeigaku** 1996 Aug;36(8):962-7 (Eng. Abstr.) **(Jpn)**

[Perinatal encephalopathy: leading disease of children in the 1st year of life and its medical-social consequences] **Kakorina EP. Probl Sotsialnoi Gig Istor Med** 1995 Nov-Dec;(6):11-3 (Eng. Abstr.) **(Rus)**

[Transdermal electrostimulation of optic nerves in neurosurgical patients with vision disorders] Eliseeva NM, et al. **Vestn Oftalmol** 1997 Jan-Feb;113(1):19-22 (Eng. Abstr.) **(Rus)**

[28-year-old woman with multiple intracranial lesions] Molina Martínez FJ, et al. **Rev Clin Esp** 1997 May; 197(5):367-8 **(Spa)**

[Trigeminal neuropathy in progressive systemic sclerosis. Letter] Campello I, et al. **Rev Neurol** 1997 Jan;25(137):137 **(Spa)**

[Plus-minus eyelid syndrome of vascular origin] Moreno-Rojas AJ, et al. **Rev Neurol** 1996 Jan;24(125):94-5 (Eng. Abstr.) **(Spa)**

[Parietal amyotrophy (Silverstein's syndrome). A new case. Letter] Vaamonde-Gamo J, et al. **Rev Neurol** 1997 Feb; 25(138):307-8 **(Spa)**

CONGENITAL

Synaptogenesis in hemimegalencephaly: the numerical density of asymmetric and symmetric synapses in the cerebral cortex. O'Kusky JR, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):156-63

Ultrasound of the neonatal brain. Ng VW, et al. **Br J Hosp Med** 1997 Jan 15-Feb 5;57(1-2):19-22 (24 ref.)

Giant congenital nevomelanocytic nevus and intracerebral calcified lesion. Arisoy AE, et al. **Int J Dermatol** 1996 Dec; 35(12):877-8

Discordant clinical and neuroradiological features of congenital bilateral perisylvian syndrome in monozygotic female twins. Lenti C, et al. **Ital J Neurol Sci** 1996 Aug; 17(4):287-90

[Magnetic resonance tomography diagnosis of neuronal migration disorders] Engelbrecht V. **Aktuelle Radiol** 1996 Jul;6(4):176-81 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Cranial and intracranial aspergillosis of sino-nasal origin. Report of nine cases. Naim-Ur-Rahman, et al. **Acta Neurochir (Wien)** 1996;138(8):944-50

Vibrameter testing facilitates the diagnosis of uremic and alcoholic polyneuropathy. Hilz MJ, et al. **Acta Neurol Scand** 1995 Dec;92(6):486-90

The assessment of general movements is a valuable technique for the detection of brain dysfunction in young infants. A review. Hadders-Algra M. **Acta Paediatr Suppl** 1996 Oct;416:39-43 (60 ref.)

Cranial MR findings in Wilson's disease. Saatci I, et al. **Acta Radiol** 1997 Mar;38(2):250-8

Polymerase chain reaction on cerebrospinal fluid for diagnosis of virus-associated opportunistic diseases of the central nervous system in HIV-infected patients. Cinque P, et al. **AIDS** 1996 Aug;10(9):951-8

Pseudallescheria boydii infection of the brain: imaging with pathologic confirmation. Albernaz V, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):589-92

Annotated bibliography. Altman N, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):197-8

High signal intensity of the infundibular stalk on fluid-attenuated inversion recovery MR. Araki Y, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):89-93

Subcortical heterotopia: a distinct clinicoradiologic entity. Barkovich AJ. **AJNR Am J Neuroradiol** 1996 Aug; 17(7):1315-22

Inflammatory pseudotumor of the choroid plexus. Bramwit M, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1307-9

Whipple disease confined to the central nervous system in childhood. Duprez TP, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1589-91

MR of epidermoids with a variety of pulse sequences. Ikushima I, et al. **AJNR Am J Neuroradiol** 1997 Aug; 18(7):1359-63

Evaluation of intracranial lesions with inversion recovery half-Fourier single-shot turbo spin-echo MR: initial observations. Ikushima I, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):421-6

Hypertensive encephalopathy in children. Jones BV, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):101-6

Proton MR spectroscopy and magnetization transfer ratio in multiple sclerosis: correlative findings of active versus irreversible plaque disease. Kimura H, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1539-47

Detection of subtle changes in the brains of infants and children via subvoxel registration and subtraction of serial MR images. Rutherford MA, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):829-35

Corticobasal degeneration: MR with histopathologic comparison. Tokumaru AM, et al. **AJNR Am J Neuroradiol** 1996 Nov-Dec;17(10):1849-52

Cystlike white matter lesions in tuberous sclerosis. Van Tassel P, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1367-73

Typical and atypical MR imaging features of intracranial epidermoid tumors. Kallmes DF, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):883-7

Neuroradiology case of the day. CNS cryptococcal infection. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):295, 299

Neuroradiology case of the day. Leptomeningeal melanocytosis. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):294, 299

Improved contrast of enhancing brain lesions using contrast-enhanced T1-weighted fast spin-echo MR imaging. Melhem ER, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):1091-5

MR imaging of acute encephalopathy associated with polyarteritis nodosa [letter] Perez C, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1195-6

Proton MR spectroscopy of the brain: clinically useful information obtained in assessing CNS damage in children [letter; comment] Silberstein M, et al. **AJR Am J Roentgenol** 1997 May;168(5):1379-80. Comment on: AJR Am J Roentgenol 1996 Jul;167(1):191-9.

Initial management of the patient with altered mental status. Ferrera PC, et al. **Am Fam Physician** 1997 Apr; 55(5):1773-80 (20 ref.)

Third ventricle colloid cyst. Ferrera PC, et al. **Am J Emerg Med** 1997 Mar;15(2):145-7

Imaging brain structure and function: emerging technologies in the neurosciences. Proceedings of a conference. Bethesda, Maryland, March 28-29, 1996. **Ann N Y Acad Sci** 1997 May 30;820:1-315

1H-magnetic resonance spectroscopy-determined cerebral lactate and poor neurological outcomes in children with central nervous system disease. Ashwal S, et al. **Ann Neurol** 1997 Apr;41(4):470-81

Image-directed neurosurgery. Kitchen ND. **Ann R Coll Surg Engl** 1997 Mar;79(2):148-53 (8 ref.)

Spectrum of sarcoidosis involving the eye and brain. Ghabrial R, et al. **Aust N Z J Ophthalmol** 1997 Aug;25(3):221-4

Cranial cystic epidermoid: report of two cases and review of the literature. Gupta VK, et al. **Australas Radiol** 1996 Nov;40(4):434-6 (15 ref.)

Neurological cases for MRCP: 2. Multiple system atrophy (MSA). Manji H. **Br J Hosp Med** 1997 Jun 4-17; 57(11):577-9

Multiple primary cerebral hydatid cysts: case report. Mancuso P, et al. **Br J Neurosurg** 1997 Jun;11(3):248-9

Proton magnetic resonance spectroscopic imaging in progressive supranuclear palsy, Parkinson's disease and corticobasal degeneration. Tedeschi G, et al. **Brain** 1997 Sep;120 (Pt 9):1541-52

Neonatal neurology, past present and future. A window on the brain. Dubowitz LM, et al. **Brain Dev** 1995;17 Suppl:22-30 (34 ref.)

Correlations between clinical and neuropathological diagnosis of cortical anomalies in developmentally disabled children. Wisniewski KE, et al. **Brain Dev** 1995;17 Suppl:48-54 (53 ref.)

Residents' corner. Answer to case of the month #47. Neurocysticercosis. Garant M, et al. **Can Assoc Radiol J** 1997 Apr;48(2):133-6 (12 ref.)

Early infantile epileptic encephalopathy: a long-term follow-up study. Verrotti A, et al. **Childs Nerv Syst** 1996 Sep;12(9):530-3

Photo quiz. Débat-Zoguéreh D, et al. **Clin Infect Dis** 1996 Mar;22(3):423, 563

Cerebral relapse of sarcoidlike Whipple's disease. Peters FP, et al. **Clin Infect Dis** 1997 Jun;24(6):1252-5

Severe mental illness and HIV-related medical and neuropsychiatric sequelae. McDaniel JS, et al. **Clin Psychol Rev** 1997;17(3):311-25 (85 ref.)

Magnetic resonance imaging in the evaluation of cerebrospinal fluid fistulae. Johnson DB, et al. **Clin Radiol** 1996 Dec;51(12):837-41

The spectrum of MRI findings in CNS cryptococcosis in AIDS. Miszkiel KA, et al. **Clin Radiol** 1996 Dec; 51(12):842-50

MRI of the intracerebral lesions at 0.5 Tesla: comparison of fast spin-echo and conventional spin-echo sequences. Incesu L, et al. **Comput Med Imaging Graph** 1996 Mar-Apr; 20(2):105-13

The infant neurodevelopmental assessment: a clinical interpretive manual for CAT-CLAMS in the first two years of life, Part 2. Capute AJ, et al. **Curr Probl Pediatr** 1996 Sep;26(8):279-306

Headache and human immunodeficiency virus infection: a case control study. Berger JR, et al. **Eur Neurol** 1996; 36(4):229-33

Functional magnetic resonance imaging in clinical neurology. Humberstone MR, et al. **Eur Neurol** 1996;36(3):117-24 (45 ref.)

Pediatric neurocysticercosis in North America. Mitchell WG. **Eur Neurol** 1997;37(2):126-9

CT and MRI of amyloidoma of the CNS. Caerts B, et al. **Eur Radiol** 1997;7(4):474-6

Correlation of lesions in the hippocampal region noted on MR images with clinical features. Takahashi S, et al. **Eur Radiol** 1997;7(2):281-6

CNS involvement in AIDS: spectrum of CT and MR findings. Thurnher MM, et al. **Eur Radiol** 1997;7(7):1091-7

Paraneoplastic syndrome simulating encephalitis in the course of testicular seminoma. Kałuża J, et al. **Folia Neuropathol** 1997;35(1):24-8

Comparative values of CSF-cholesterol and CSF-triglycerides along with other biochemical parameters in neurological disorders. Kamat DV, et al. **Indian J Med Sci** 1996 Aug;50(8):280-4

Freely mobile cysticercus in the anterior chamber. Sachdeva RS, et al. **Indian J Ophthalmol** 1995 Sep;43(3):135-6

Differential diagnosis in acute psychotic episode. Falkai P. **Int Clin Psychopharmacol** 1996 May;11 Suppl 2:13-7 (23 ref.)

Evoked potentials in geriatric depression [editorial] Kalayam B. **Int J Geriatr Psychiatry** 1997 Jan;12(1):3-5 (10 ref.)

Detection of subclinical brain dysfunction by sensory evoked potentials in patients with severe diabetic ketoacidosis. Eisenhuber E, et al. **Intensive Care Med** 1997 May; 23(5):587-9

Proton spectroscopy in asymptomatic HIV-infected adults: initial results in a prospective cohort study. Jarvik JG, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):247-53

Diagnostic neuroimaging: computed tomography and magnetic resonance imaging. Oshinskie LJ, et al. **J Am Optom Assoc** 1996 Aug;67(8):481-95

Terfenadine induced coma mimicking structural brain disease. Shukla R, et al. **J Assoc Physicians India** 1996 Oct; 44(10):745-6

Aunt Minnie's corner. Gray matter heterotopia. Ford KL 3rd. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):1033

Dentate nuclei involvement in AIDS patients with CNS cryptococcosis: imaging findings with pathologic correlation: Ruiz A, et al. **J Comput Assist Tomogr** 1997 Mar-Apr;21(2):175-82

Analysis of magnetization transfer effects on T1-weighted spin-echo scans using a simple tissue phantom simulating gadolinium-enhanced brain lesions. Finelli DA, et al. **J Magn Reson Imaging** 1997 Jul-Aug;7(4):731-8

Effects of contrast dose, delayed imaging, and magnetization transfer saturation on gadolinium-enhanced MR imaging of brain lesions. Mathews VP, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):14-22 (38 ref.)

Theory and application of static field inhomogeneity effects in gradient-echo imaging. Reichenbach JR, et al. **J Magn Reson Imaging** 1997 Mar-Apr;7(2):266-79 (23 ref.)

Principles of contrast enhancement in the evaluation of brain diseases: an overview. Runge VM, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):5-13 (24 ref.)

T1-weighted MR imaging of the brain using a fast inversion recovery pulse sequence. Rydberg JN, et al.

J Magn Reson Imaging 1996 Mar-Apr;6(2):356-62
Contrast agents in functional MR imaging. Sorensen AG, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):47-55 (24 ref.)
Magnetic resonance: a multimodal approach to the brain? Laubenberger J. **J Neural Transm Suppl** 1997;50:3-8 (29 ref.)
Neuroimaging findings in Rasmussen's syndrome. Yacubian EM, et al. **J Neuroimaging** 1997 Jan;7(1):16-22
Familial Lafora body disease of late onset: report of four cases in one family and a review of the literature. Footitt DR, et al. **J Neurol** 1997 Jan;244(1):40-4 (32 ref.)
Encephalopathy associated with Hashimoto thyroiditis: diagnosis and treatment. Kothbauer-Margreiter I, et al. **J Neurol** 1996 Aug;243(8):585-93 (28 ref.)
Positron emission tomography and magnetic resonance imaging for cerebral involvement in patients with systemic lupus erythematosus. Sailer M, et al. **J Neurol** 1997 Mar; 244(3):186-93
Ictal cerebral perfusion related to EEG in drug resistant focal epilepsy of childhood. Cross JH, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):377-84
Arachnoid cyst of the middle crania fossa, disclosed by bleeding. De Recondo A, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):444
Triphasic waves in serotonin syndrome [letter] Dike GL. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):200
Comparison of magnetic resonance imaging with neuropathological findings in the diagnosis of HIV and CMV associated CNS disease in AIDS. Miller RF, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):346-51
Neuropsychological, psychiatric, and cerebral perfusion correlates of leukoaraiosis in Alzheimer's disease. Starkstein SE, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul; 63(1):66-73
Urodynamic and neurophysiological evaluation in Parkinson's disease and multiple system atrophy. Stocchi F, et al. **J Neurol Neurosurg Psychiatry** 1997 May; 62(5):507-11
Rotated drawing: a mini mental state examination performance with strong lateralising significance [letter] Turnbull OH, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):419-20
Brain and spinal cord MR in benign multiple sclerosis: a follow-up study. Filippi M, et al. **J Neurol Sci** 1996 Nov; 143(1-2):143-9
Temporal crescent syndrome with magnetic resonance correlation. Chavis PS, et al. **J Neuroophthalmol** 1997 Sep; 17(3):151-5
Neurosarcoidosis presenting as an intracranial mass in childhood. Leiba H, et al. **J Neuroophthalmol** 1996 Dec; 16(4):269-73
Magnetic resonance imaging using FLAIR pulse sequence in white matter diseases. Tourbah A, et al. **J Neuroradiol** 1996 Dec;23(4):217-22
Cerebral sparganosis: clinical manifestations, treatment, and outcome. Kim DG, et al. **J Neurosurg** 1996 Dec; 85(6):1066-71
Expanding cyst of the septum pellucidum. Case report. Lancon JA, et al. **J Neurosurg** 1996 Dec;85(6):1127-34 (47 ref.)
Secondary multiple intracranial hydatid cysts caused by intracerebral embolism of cardiac echinococcosis: an exceptional case of hydatidosis. Case report. Turgut M, et al. **J Neurosurg** 1997 Apr;86(4):714-8
Primary Langerhans' cell histiocytosis of the central nervous system with fatal outcome. Case report. Vital A, et al. **J Neurosurg** 1996 Dec;85(6):1156-60 (47 ref.)
MRI of lightning injury: early white matter changes associated with cerebral dysfunction [see comments] Milton WJ, et al. **J Okla State Med Assoc** 1996 Mar;89(3):93-4 (9 ref.). Comment in: J Okla State Med Assoc 1997 Feb;90(2):74.
Brain magnetic resonance imaging in suspected extrapyramidal cerebral palsy: observations in distinguishing genetic-metabolic from acquired causes. Hoon AH Jr, et al. **J Pediatr** 1997 Aug;131(2):240-5
Toxic shock syndrome without rash in a young child: link with syndrome of hemorrhagic shock and encephalopathy? Van Lierde S, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):130-4
Clinical examination findings in neonates with the absence of electrocerebral activity: an acute or chronic encephalopathic state? Scher MS, et al. **J Perinatol** 1996 Nov-Dec;16(6):455-60
Computerised tomography scans of the head in a district general hospital [see comments] Nixon J, et al. **J R Coll Physicians Lond** 1996 Nov-Dec;30(6):547-50. Comment in: J R Coll Physicians Lond 1997 Mar-Apr;31(2):223-4.
Intracranial space occupying lesions--review of 386 cases. Irfan A, et al. **JPMA J Pak Med Assoc** 1995 Dec; 45(12):319-20
Chronic rhinocerebral mucormycosis. Harril WC, et al. **Laryngoscope** 1996 Oct;106(10):1292-7 (23 ref.)
A quantitative in-vivo MR imaging study of brain dehydration in diabetic rats and rats treated with peptide hormones. Haraldseth O, et al. **Magn Reson Imaging** 1997; 15(2):203-10
Fast flair imaging of the brain using the fast spin-echo and gradient spin-echo technique. Hittmair K, et al. **Magn Reson Imaging** 1997;15(4):405-14
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 37-1996. A 51-year-old man with visual problems and an intracranial mass [clinical conference] **N Engl J Med** 1996 Nov 28;335(22):1668-74
Intracranial bacterial infections in patients with AIDS. Cohen WA. **Neuroimaging Clin N Am** 1997 May;7(2):223-9 (41 ref.)
The complex interaction of normal biases in line bisection. Kashmere JL, et al. **Neurology** 1997 Sep;49(3):887-9
Cat-scratch encephalopathy. Wheeler SW, et al. **Neurology** 1997 Sep;49(3):876-8
Electroencephalographic dysmaturity in preterm infants: a prognostic tool in the early postnatal period. Biagioni E, et al. **Neuropediatrics** 1996 Dec;27(6):311-6
Differentiating patients with higher cerebral dysfunction from patients with psychiatric or acute medical illness using the BNI Screen for Higher Cerebral Functions. Rosenstein LD, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr;10(2):113-9
Giant cyst of the cavum septi pellucidi and cavum Vergae with posterior cranial fossa extension: case report. Bayar MA, et al. **Neuroradiology** 1996 May;38 Suppl 1:S187-9
Intracranial plasma cell granuloma. Breidahl WH, et al. **Neuroradiology** 1996 May;38 Suppl 1:S86-9
A controlled study of reliability and validity of MRI findings in neuro-Behçet's disease. Coban O, et al. **Neuroradiology** 1996 May;38(4):312-6
Tumefactive demyelinating lesions. Dagher AP, et al. **Neuroradiology** 1996 Aug;38(6):560-5 (27 ref.)
Whipple's disease confined to the central nervous system. De Coene B, et al. **Neuroradiology** 1996 May;38(4):325-7
MRI in a case of neurotrichinosis. Feydy A, et al. **Neuroradiology** 1996 May;38 Suppl 1:S80-2
Fast FLAIR of the brain: the range of appearances in normal subjects and its application to quantification of white-matter disease. Gawne-Cain ML, et al. **Neuroradiology** 1997 Apr;39(4):243-9
Long-term MR follow-up of cerebral lesions in neuro-Behçet's disease. Gerber S, et al. **Neuroradiology** 1996 Nov;38(8):761-8
Superficial siderosis of the central nervous system: MRI findings and clinical significance. Offenbacher H, et al. **Neuroradiology** 1996 May;38 Suppl 1:S51-6 (20 ref.)
Disseminated intracerebral alveolar echinococcosis: CT and MRI. Piotin M, et al. **Neuroradiology** 1997 Jun;39(6):431-3
Comparative study of CT and MRI in patients with seizures and a solitary cerebral cysticercus granuloma. Rajshekhar V, et al. **Neuroradiology** 1996 Aug;38(6):542-6
Sarcoidosis presenting as an intra- or extra-axial cranial mass: report of two cases. Urbach H, et al. **Neuroradiology** 1997 Jul;39(7):516-9
Clinical usefulness of contrast-enhanced MP-RAGE of the brain. van den Hauwe L, et al. **Neuroradiology** 1996 May; 38 Suppl 1:S14-9
Use of functional magnetic resonance imaging. Lee CC, et al. **Neurosurg Clin N Am** 1996 Oct;7(4):665-83 (58 ref.)
Bone marrow transplantation in children. Imaging assessment of complications. Benya EC, et al. **Pediatr Clin North Am** 1997 Jun;44(3):741-61 (30 ref.)
Diagnostic imaging in pediatric AIDS. Haller JO, et al. **Pediatr Clin North Am** 1997 Jun;44(3):721-40 (64 ref.)
Intracranial fibromuscular dysplasia in a 5-year-old child. Chiu NC, et al. **Pediatr Neurol** 1996 Apr;14(3):262-4
Neuroimaging of pediatric brain stem diseases other than brain stem glioma. Zimmerman RA. **Pediatr Neurosurg** 1996 Aug;25(2):83-92 (11 ref.)
Fast fluid-attenuated inversion recovery (FLAIR) magnetic resonance imaging of the brain: a comparison of multi-shot echo-planar and fast spin-echo techniques. Sargent MA, et al. **Pediatr Radiol** 1997 Jun;27(6):545-9
Histologic, molecular, and radiologic characterization of resolving cerebral posttransplant lymphoproliferative disorder. Dean AF, et al. **Pediatr Res** 1997 May;41(5):651-6
Neurocysticercosis: report of unusual pediatric cases. Stamos JK, et al. **Pediatrics** 1996 Nov;98(5):974-7
Headache as a symptom of ominous disease. What are the warning signals? Dodick D. **Postgrad Med** 1997 May; 101(5):46-50, 55-6, 62-4 (9 ref.)
Intracranial imaging. Gibson M, et al. **Postgrad Med J** 1996 Jul;72(849):386-90 (4 ref.)
High frequency of EEG and MRI brain abnormalities in panic disorder. Dantendorfer K, et al. **Psychiatry Res** 1996 Nov 25;68(1):41-53
Cerebral vasculitis--recognition, diagnosis and management. Scolding NJ, et al. **QJM** 1997 Jan;90(1):61-73
Echo-planar FLAIR imaging in evaluation of intracranial lesions. Simonson TM, et al. **Radiographics** 1996 May; 16(3):575-84 (14 ref.)
Brain and spine imaging findings in AIDS patients. Provenzale JM, et al. **Radiol Clin North Am** 1997 Sep; 35(5):1127-66 (146 ref.)
Proton MR spectroscopy after acute central nervous system injury: outcome prediction in neonates, infants, and children. Holshouser BA, et al. **Radiology** 1997 Feb; 202(2):487-96
MR imaging of the brain in epidemiologic research: the Cardiovascular Health Study [editorial; comment] Jack CR Jr. **Radiology** 1997 Jan;202(1):17-9. Comment on: Radiology 1997 Jan;202(1):33-9. Comment on: Radiology 1997 Jan;202(1):41-6. Comment on: Radiology 1997 Jan;202(1):47-54.
Children with headache: clinical predictors of surgical space-occupying lesions and the role of neuroimaging. Medina LS, et al. **Radiology** 1997 Mar;202(3):819-24
Differentiation between portal-systemic encephalopathy and neurodegenerative disorders in patients with Wilson disease: H-1 MR spectroscopy. Van Den Heuvel AG, et al. **Radiology** 1997 May;203(2):539-43
Clinically serious abnormalities found incidentally at MR imaging of the brain: data from the Cardiovascular Health Study [see comments] Yue NC, et al. **Radiology** 1997 Jan; 202(1):41-6. Comment in: Radiology 1997 Jan;202(1):17-9.
Multifocal white matter lesions. Wallace CJ, et al. **Semin Ultrasound CT MR** 1996 Jun;17(3):251-64 (42 ref.)
Stereotactic transsylvian, transinsular approach for deep-seated lesions. Heffez DS. **Surg Neurol** 1997 Aug; 48(2):113-24 (16 ref.)
Epidermoid or arachnoid cyst? Kuzma BB, et al. **Surg Neurol** 1997 Apr;47(4):395-6
Presentation of parasites and the radiology of parasitic diseases. Zaiman H. **Trop Doct** 1997 Jan;27(1):56, 63
[Intracranial magnetic resonance diagnosis] Herning MG, et al. **Ugeskr Laeger** 1997 Jun 2;159(23):3559-64 **(Dan)**
[Neuro-Behçet disease with solitary cerebral pseudotumor disclosed by headaches (letter)] Dupin M, et al. **Ann Med Interne (Paris)** 1996;147(7):524-6 **(Fre)**
[What is your diagnosis? Carbon monoxide poisoning] Brugières P. **J Neuroradiol** 1996 Dec;23(4):210, 251 **(Fre)**
[Cerebral lesions following convulsive partial status epilepticus. Clinical, neuroradiologic and PET study of a case] Van Bogaert P, et al. **J Neuroradiol** 1994 Apr; 21(3):176-80 (Eng. Abstr.) **(Fre)**
[Has functional cerebral MRI a clinical future? (editorial)] Hertz-Pannier L, et al. **J Radiol** 1997 Apr;78(4):263-4 **(Fre)**
[Prenatal MRI of the brain. Retrospective study apropos of 34 tests] Lair-Milan F, et al. **J Radiol** 1997 Jul; 78(7):499-505 (Eng. Abstr.) **(Fre)**
[Gray matter heterotopia] Merran S. **Presse Med** 1997 Mar 22;26(9):444 **(Fre)**
[Medical imaging and headache: choice of studies and their economic impact] Osteaux M, et al. **Rev Med Brux** 1996 Sep;17(4):300-6 (Eng. Abstr.) **(Fre)**
[Acute reversible encephalopathy with brain edema and serial seizures in pseudohypoparathyroidism] Oechsner M, et al. **Nervenarzt** 1996 Oct;67(10):875-9 (Eng. Abstr.) **(Ger)**
[Value of computerized tomography and magnetic resonance tomography in psychiatric diagnosis] Schlegel S, et al. **Nervenarzt** 1997 Jan;68(1):1-10 (95 ref.) (Eng. Abstr.) **(Ger)**
[High dosage administration of paramagnetic contrast media in diagnosis of focal brain lesions] Forsting M, et al. **Radiologe** 1996 Feb;36(2):101-6 (29 ref.) (Eng. Abstr.) **(Ger)**
[Single and double echo turbo spin-echo sequences in routine MRI diagnosis of the brain. Clinical results and theoretical approaches] Fellner C, et al. **Rontgenpraxis** 1997 Jul; 50(7):214-23 **(Ger)**
[Value of 3D-MP-RAGE technique in MRI imaging of intracranial space-occupying lesions] Held P, et al. **Rontgenpraxis** 1997 May;50(5):97-102 **(Ger)**
[Value of magnetic resonance tomography in diagnosis of drug-resistant epilepsy] Zeitler H, et al. **Rontgenpraxis** 1997 Apr;50(4):83-7 (18 ref.) **(Ger)**
[A case from practice (356). HIV-encephalopathy and vacuolar myelopathy in stage CDC C3 HIV infection] Bassetti S. **Schweiz Rundsch Med Prax** 1996 Sep 3; 85(36):1096-7 **(Ger)**
[Presurgical diagnosis of epilepsy and surgical epilepsy treatment] Baumgartner C, et al. **Wien Klin Wochenschr** 1997 Mar 28;109(6):180-91 (64 ref.) (Eng. Abstr.) **(Ger)**
[CT and MR imaging findings in a case of cerebral alveolar echinococcosis masquerading as brain tumor] Wada H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):608-9 (Eng. Abstr.) **(Jpn)**
[Evaluation of intracranial deep cerebral veins using MRI] Ohkawa M, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:345-7 (8 ref.) **(Jpn)**
[A case of endodermal cyst in front of the pontomedullary junction] Shimizu T, et al. **No Shinkei Geka** 1996 Dec; 24(12):1135-8 (Eng. Abstr.) **(Jpn)**
[Use of cortical SEP for the prediction of neurological prognosis after cardiopulmonary resuscitation] Tobita M, et al. **No To Shinkei** 1996 Feb;49(2):131-6 (Eng. Abstr.) **(Jpn)**
[Lymphomatoid granulomatosis of the brain with multiple lesions on MRI] Adachi T, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):757-63 (30 ref.) (Eng. Abstr.) **(Jpn)**
[Two cases of superficial siderosis of the central nervous system. Findings of the cerebrospinal fluid, magnetic resonance imaging and positron emission tomography] Yamazaki K, et al. **Rinsho Shinkeigaku** 1995 Oct; 35(10):1125-30 (Eng. Abstr.) **(Jpn)**
[Homolateral pyramidal disorders (letter)] Jędrzejowska H. **Neurol Neurochir Pol** 1996 Sep-Oct;30(5):884-5 **(Pol)**
[A comprehensive method for the early detection and differential diagnosis of the intracranial complications of suppurative diseases of the face and neck] Chevardov NI, et al. **Stomatologiia (Mosk)** 1996;Spec No:89-90 **(Rus)**
[Topical diagnosis of comatose states] Sabaka Z, et al. **Vnitr Lek** 1996 Jul;42(7):493-6 (Eng. Abstr.) **(Slo)**
[Neurosarcoidosis mimicking cerebral tumor] Herrero Fernández B, et al. **An Med Interna** 1997 Mar;14(3):139-41 (13 ref.) (Eng. Abstr.) **(Spa)**

[Heterotopia in a 45-year-old man] Segarra Soria MA, et al. **An Med Interna** 1997 Apr;14(4):193-5 (15 ref.) (Eng. Abstr.) **(Spa)**

[Cerebral proton spectroscopy of people infected with the human immunodeficiency virus] Alonso J, et al. **Med Clin (Barc)** 1996 Sep 28;107(10):361-5 (Eng. Abstr.) **(Spa)**

[Neuroborreliosis: diagnostic controversy (letter; comment)] del Real MA, et al. **Neurologia** 1997 Jun-Jul;12(6):268-9. Comment on: Neurologia 1997 Jan;12(1):2-8. **(Spa)**

[Evaluation of ELISA and counterimmunoelectrophoresis in diagnosis of human neurocysticercosis in Chile] Retamal C, et al. **Rev Med Chil** 1995 Dec;123(12):1461-6 (Eng. Abstr.) **(Spa)**

[Infections with cutaneous and nervous system alterations] Losada-Campa A, et al. **Rev Neurol** 1997 Sep;25 Suppl 3:S281-93 (76 ref.) (Eng. Abstr.) **(Spa)**

[Systemic autoimmune diseases with neurocutaneous alterations] Oliveros-Cid A, et al. **Rev Neurol** 1997 Sep; 25 Suppl 3:S294-308 (170 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Ifosfamide encephalopathy and methylene-blue: a case report [letter] Alonso JL, et al. **Ann Oncol** 1996 Aug;7(6):643-4

Potent antifungal effects of a new derivative of partricin A in a murine model of cerebral cryptococcosis. Luna T, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):706-8

Effects of pentoxifylline or dexamethasone in combination with amphotericin B in experimental murine cerebral cryptococcosis: evidence of neuroexcitatory pathogenic mechanisms. Ostrosky-Zeichner L, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1194-7

Medical treatment for cysticercosis [letter] Garg RK, et al. **Arch Neurol** 1996 Apr;53(4):295-6

Severe forms of neurocysticercosis: treatment with albendazole. Agapejev S, et al. **Arq Neuropsiquiatr** 1996 Mar;54(1):82-93

Successful treatment of cerebral aspergillosis with a novel triazole (voriconazole) in a patient with acute leukaemia. Schwartz S, et al. **Br J Haematol** 1997 Jun;97(3):663-5

Improvement of hypertonus after treatment for sleep disturbances in three patients with severe brain damage. Tanaka H, et al. **Brain Dev** 1997 Jun;19(4):240-4

Successful therapy for cerebral phaeohyphomycosis due to Dactylaria gallopava [letter; comment] Nieto-Rodriguez JA, et al. **Clin Infect Dis** 1996 Jul;23(1):211. Comment on: Clin Infect Dis 1996 Jan;22(1):73-80.

Thrombolytic therapy in neurointensive care. Jichici D, et al. **Crit Care Clin** 1997 Jan;13(1):201-27 (126 ref.)

Tizanidine. A review of its pharmacology, clinical efficacy and tolerability in the management of spasticity associated with cerebral and spinal disorders. Wagstaff AJ, et al. **Drugs** 1997 Mar;53(3):435-52 (112 ref.)

Medical treatment of cerebral cysticercosis. Estanol B. **Eur Neurol** 1997;37(2):125-6

Praziquantel therapy in neurocysticercosis. Aggarwal SP, et al. **J Assoc Physicians India** 1995 May;43(5):356-7

Modulation of blood-brain barrier permeability [editorial] Rapoport SI. **J Drug Target** 1996;3(6):417-25

L-ornithine vs. L-ornithine-L-aspartate as a treatment for hyperammonemia-induced encephalopathy in rats. Vogels BA, et al. **J Hepatol** 1997 Jan;26(1):174-82

Treatment and prevention of target organ damage. Padmavati S. **J Hum Hypertens** 1996 Feb;10 Suppl 1:S85-7 (10 ref.)

Apoptosis in neurodegenerative disorders: potential for therapy by modifying gene transcription. Tatton WG, et al. **J Neural Transm Suppl** 1997;49:245-68 (156 ref.)

Local application of antimycotics in mucormycosis cerebri: a case report. Mohsenipour I, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):521-2

Neurocysticercosis treated with albendazole long term follow-up of a case. Maddalena G, et al. **J Neurosurg Sci** 1995 Sep;39(3):171-5

Changes of D1 and D2 dopamine receptor mRNA in the brains of monkeys lesioned with 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine: correction with chronic administration of L-3,4-dihydroxyphenylalanine. Morissette M, et al. **Mol Pharmacol** 1996 Nov;50(5):1073-9

Albendazole therapy for neurocysticercosis: a prospective double-blind trial comparing 7 versus 14 days of treatment. Cysticercosis Working Group in Peru. Garcia HH, et al. **Neurology** 1997 May;48(5):1421-7

Neurotrophic factors. Thal LJ. **Prog Brain Res** 1996; 109:327-30 (38 ref.)

Therapy for neurocysticercosis: pharmacokinetic interaction of albendazole sulfoxide with dexamethasone. Takayanagui OM, et al. **Ther Drug Monit** 1997 Feb;19(1):51-5

[Brain research: the black box is open] Olesen J. **Ugeskr Laeger** 1997 Jan 20;159(4):401-2 **(Dan)**

[Results of sequential prolonged courses of albendazole and praziquantel in recurrent neurocysticercosis (letter)] Alla P, et al. **Med Trop (Mars)** 1996;56(3):308 **(Fre)**

[Methylene blue in ifosfamide-induced encephalopathy (letter)] Koschuth A, et al. **Dtsch Med Wochenschr** 1996 Sep 27;121(39):1210 **(Ger)**

[Clinical significance of the pharmacogenetics in psychiatric and neurological syndromes] Milejski P, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):997-1007 (28 ref.) (Eng. Abstr.) **(Pol)**

[Effect of the amide of 1-adamantanecarboxylic acid (AACA) and its combination with ribavirin on the course of experimental infection, caused by the sindbis virus in tissue culture and in mouse brain. Possible isolation of the virus mutant resistant to ribavirin and to a combination of the inhibitors] Andronova VL. **Antibiot Khimioter** 1997; 42(7):3-7 (Eng. Abstr.) **(Rus)**

ECONOMICS

Cost-effectiveness of magnetic resonance imaging in specific situations in India. Shah VC, et al. **Acad Radiol** 1996 Apr; 3 Suppl 1:S113-5

ENZYMOLOGY

Role of the glycolytic protein, glyceraldehyde-3-phosphate dehydrogenase, in normal cell function and in cell pathology. Sirover MA. **J Cell Biochem** 1997 Aug 1; 66(2):133-40 (46 ref.)

EPIDEMIOLOGY

Cerebral cysticercosis in Campina Grande, Paraíba--northern Brazil. Computerized tomography diagnosis importance. Gonçalves-Coêlho TD, et al. **Arq Neuropsiquiatr** 1996 Mar;54(1):94-7

Vascular risk factors, atherosclerosis, cerebral white matter lesions and cerebral perfusion in a population-based study. Claus JJ, et al. **Eur J Nucl Med** 1996 Jun;23(6):675-82

Visual evoked potentials in relation to factors of imprisonment in detention camps. Vrca A, et al. **Int J Legal Med** 1996;109(3):114-7

Effects of a hydrochloric acid spill on neurobehavioral and pulmonary function. Kilburn KH. **J Occup Environ Med** 1996 Oct;38(10):1018-25

Intracranial space occupying lesions--review of 386 cases. Irfan A, et al. **JPMA J Pak Med Assoc** 1995 Dec; 45(12):319-20

Adverse cerebral outcomes after coronary bypass surgery. Multicenter Study of Perioperative Ischemia Research Group and the Ischemia Research and Education Foundation Investigators [see comments] Roach GW, et al. **N Engl J Med** 1996 Dec 19;335(25):1857-63. Comment in: N Engl J Med 1997 May 29;336(22):1605; discussion 1606-7. Comment in: N Engl J Med 1997 May 29;336(22):1605-6; discussion 1606-7. Comment in: N Engl J Med 1997 May 29;336(22):1606; discussion 1606-7.

Correlation between 99Tcm-HMPAO-SPECT brain image and a history of decompression illness or extent of diving experience in commercial divers [published erratum appears in Occup Environ Med 1997 Jul;54(7):527] Shields TG, et al. **Occup Environ Med** 1997 Apr;54(4):247-53

Epidemic heat stroke in a midwest community: risk factors, neurological complications and sequelae. Dixit SN, et al. **Wis Med J** 1997 May;96(5):39-41

[Gestational age, birth weight, degree of motor impairment, and causes of brain damage in sixty-eight patients with cerebral palsy identified in a community (birth year 1985-1991)] Suzuki H. **No To Hattatsu** 1997 Jan;29(1):27-32 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Cranial and intracranial aspergillosis of sino-nasal origin. Report of nine cases. Naim-Ur-Rahman, et al. **Acta Neurochir (Wien)** 1996;138(8):944-50

Endothelial damage in piglet brains during cardiorespiratory failure [letter; comment] Temesvári P, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):428-30. Comment on: Acta Neuropathol (Berl) 1995;90(6):582-91.

Hemorrhagic shock and encephalopathy syndrome. An unusual cause of sudden death in children. Little D, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):79-83 (35 ref.)

Encephalopathy and peripheral neuropathy following carbon monoxide poisoning from a propane-fueled vehicle. Kelafant GA. **Am J Ind Med** 1996 Dec;30(6):765-8

Hyponatremic encephalopathy [letter] Spital A. **Am J Med** 1997 Sep;103(3):251-2

Severe fetal asphyxia associated with neuropathology [see comments] Low JA, et al. **Am J Obstet Gynecol** 1996 Nov; 175(5):1383-5. Comment in: Am J Obstet Gynecol 1997 May;176(5):1117-8. Comment in: Am J Obstet Gynecol 1997 May;176(5):1119-20.

"Abruption" and assumption [letter; comment] Perkins RP. **Am J Obstet Gynecol** 1997 May;176(5):1119-20. Comment on: Am J Obstet Gynecol 1996 Nov;175(5):1383-5.

Subfrontal schwannoma with intracranial mucocele: a case report. Boyd JH, et al. **Am J Otolaryngol** 1997 Jan-Feb; 18(1):72-5

Severe cerebral fat embolism. Needham AP, et al. **Anaesth Intensive Care** 1996 Aug;24(4):502-4

Perioperative white matter degeneration and death in a patient with a defect in mitochondrial oxidative phosphorylation. Casta A, et al. **Anesthesiology** 1997 Aug; 87(2):420-5

Antiphospholipid antibodies and cerebral lupus. Harris EN, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:270-8 (53 ref.)

Fulminating encephalopathy with perivenular demyelination and vacuolar myelopathy as the initial presentation of human immunodeficiency virus infection. Silver B, et al. **Arch Neurol** 1997 May;54(5):647-50

A rat model for hypoxic-ischemic brain damage in very premature infants. Sheldon RA, et al. **Biol Neonate** 1996; 69(5):327-41

Central noradrenergic hyperactivity early in life: a hypothesis on the origin of morpho-functional brain disorders induced by malnutrition. Soto-Moyano R, et al. **Biol Res** 1995; 28(1):105-11 (80 ref.)

Fortnighly review. Stress, the brain, and mental illness. Herbert J. **BMJ** 1997 Aug 30;315(7107):530-5 (47 ref.)

Autoimmune encephalopathy after treatment of thymoma-associated myasthenia gravis. Maher D, et al. **Br J Clin Pract** 1996 Oct-Nov;50(7):406-7

Cardiac, cerebral, and vascular complications of infective endocarditis. Harris PS, et al. **Cardiol Clin** 1996 Aug; 14(3):437-50 (98 ref.)

Sarcoidosis presenting as a central nervous system mass lesion. Veres L, et al. **Chest** 1997 Feb;111(2):518-21

Neurological complications in hospitalized patients with pertussis: a 15-year Sicilian experience. Incorpora G, et al. **Childs Nerv Syst** 1996 Jun;12(6):332-5

CT and MRI findings of eclampsia and their correlation with neurologic symptoms. Chang WN, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Mar;57(3):191-7

Trinucleotide-repeat expansions and neurodegenerative disease: a mechanism of pathogenesis. Hannan AJ. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1015-20 (48 ref.)

Cerebral involvement in two patients with Wegener's granulomatosis. Bajema IM, et al. **Clin Nephrol** 1997 Jun; 47(6):401-6 (38 ref.)

Correlation of drug-related aluminum intake and dialysis treatment with deposition of argyrophilic aluminum-containing inclusions in CNS and in organ systems of patients with dialysis-associated encephalopathy. Reusche E, et al. **Clin Neuropathol** 1996 Nov-Dec;15(6):342-7

Intracranial calcification in nephrogenic diabetes insipidus. Bagga A, et al. **Clin Pediatr (Phila)** 1996 Jan;35(1):34-6

Neurological presentation of poststreptococcal glomerulonephritis [see comments] Nordby JA. **Clin Pediatr (Phila)** 1997 Feb;36(2):105-8. Comment in: Clin Pediatr (Phila) 1997 Aug;36(8):492-3.

Idiopathic duro-optic calcification [letter; comment] Moseley I. **Clin Radiol** 1996 Oct;51(10):741. Comment on: Clin Radiol 1996 May;51(5):359-61.

Lyme disease in transgenic mice expressing the Borrelia burgdorferi flagellin epitope implicated in human neuroborreliosis. Fikrig E, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):137-43

Hashimoto's encephalopathy: clinical and laboratory findings. Bostantjopoulou S, et al. **Funct Neurol** 1996 Sep-Oct;11(5):247-51

Case study: an infection-triggered, autoimmune subtype of anorexia nervosa. Sokol MS, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1128-33

Traumatic porencephalic cyst of the brain. Yang DN, et al. **J Am Optom Assoc** 1997 Aug;68(8):519-26

Unusual post traumatic porencephaly. Madhu SV. **J Assoc Physicians India** 1995 May;43(5):366-7

Pathophysiology of cerebral injury and future management. Baumgartner WA, et al. **J Card Surg** 1997 Mar-Apr;12(2 Suppl):300-10; discussion 310-1

Central nervous system involvement in X-linked myotubular myopathy. Lerman-Sagie T, et al. **J Child Neurol** 1997 Jan;12(1):70-3

Hypertensive encephalopathy in childhood. Wright RR, et al. **J Child Neurol** 1996 May;11(3):193-6

Neurologic complications of pediatric systemic malignancies. Huang LT, et al. **J Formos Med Assoc** 1996 Mar; 95(3):209-12

Dialysis and transplantation affect cerebral abnormalities of end-stage renal disease. Michaelis T, et al. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):341-7

Encephalopathy associated with Hashimoto thyroiditis: diagnosis and treatment. Kothbauer-Margreiter I, et al. **J Neurol** 1996 Aug;243(8):585-93 (28 ref.)

Neurological manifestations following treatment of Langerhans cell histiocytosis [letter] Varona L, et al. **J Neurol** 1997 Jan;244(1):58-60

Development of the anterior cingulate syndrome in a child due to delayed necrotising methotrexate leukoencephalopathy [letter] Catsman-Berrevoets CE, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):301-2

Lethal hyperoral behaviour from the Klüver-Bucy syndrome [letter] Mendez MF, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):293-4

Dorsal midbrain syndrome due to mesencephalic hemorrhage. Case report with serial imaging. Lee AG, et al. **J Neuroophthalmol** 1996 Dec;16(4):281-5

The one-and-a-half syndrome in systemic lupus erythematosus. Yiğit A, et al. **J Neuroophthalmol** 1996 Dec; 16(4):274-6

Thrombotic thrombocytopenic purpura: a treatable cause of childhood encephalopathy. Lawlor ER, et al. **J Pediatr** 1997 Feb;130(2):313-6 (14 ref.)

Residual neurologic sequelae after childhood cerebral malaria. van Hensbroek MB, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):125-9

Analysis of the risk of brain damage in asphyxiated infants. Lin Y, et al. **J Perinat Med** 1996;24(6):581-9

Acoustic stimulation in hypoxic-ischemic encephalopathy: heart rate analysis. Manera J, et al. **J Perinat Med** 1997; 25(1):89-95

Technical Bulletin 163: A light at the end of the tunnel [letter] Bloch GJ. **J Perinatol** 1997 Jul-Aug;17(4):335-6

Conformational disease. Carrell RW, et al. **Lancet** 1997 Jul 12;350(9071):134–8 (40 ref.)
Neurological aspects of antiphospholipid antibody syndrome. Levine SR, et al. **Lupus** 1996 Oct;5(5):347–53 (65 ref.)
Adverse cerebral outcomes after coronary bypass surgery [letter; comment] Goldsborough MA, et al.
N Engl J Med 1997 May 29;336(22):1606; discussion 1606–7 . Comment on: N Engl J Med 1996 Dec 19;335(25):1857–63.
Adverse cerebral outcomes after coronary bypass surgery [letter; comment] Hariawala MD. **N Engl J Med** 1997 May 29;336(22):1605–6; discussion 1606–7. Comment on: N Engl J Med 1996 Dec 19;335(25):1857–63.
Adverse cerebral outcomes after coronary bypass surgery [letter; comment] Kouchoukos NT, et al.
N Engl J Med 1997 May 29;336(22):1605; discussion 1606–7 . Comment on: N Engl J Med 1996 Dec 19;335(25):1857–63.
Case 26–1996: hypersensitivity to carbamazepine [letter; comment] Mönkemüller KE, et al. **N Engl J Med** 1997 Jan 30;336(5):376; discussion 377. Comment on: N Engl J Med 1996 Aug 22;335(8):577–84.
Adverse cerebral outcomes after coronary bypass surgery. Multicenter Study of Perioperative Ischemia Research Group and the Ischemia Research and Education Foundation Investigators [see comments] Roach GW, et al. **N Engl J Med** 1996 Dec 19;335(25):1857–63. Comment in: N Engl J Med 1997 May 29;336(22):1605; discussion 1606–7. Comment in: N Engl J Med 1997 May 29;336(22):1605–6; discussion 1606–7. Comment in: N Engl J Med 1997 May 29;336(22):1606; discussion 1606–7.
Case 26–1996: hypersensitivity to carbamazepine [letter] Waagner DC. **N Engl J Med** 1997 Jan 30;336(5):376; discussion 377
Long term morbidity in survivors of the 1984 Bhopal gas leak. Cullinan P, et al. **Natl Med J India** 1996 Jan–Feb; 9(1):5–10
Attenuation of rat ischemic brain damage by aged garlic extracts: a possible protecting mechanism as antioxidants. Numagami Y, et al. **Neurochem Int** 1996 Aug;29(2):135–43
Cerebrospinal fluid creatine kinase BB isoenzyme activity and neurologic prognosis after cardiac arrest. Tirschwell DL, et al. **Neurology** 1997 Feb;48(2):352–7
Coma with abnormal movements and prolonged cognitive disturbances: a new subset of acute encephalopathy. Haimi-Cohen Y, et al. **Neuropediatrics** 1996 Oct; 27(5):270–2
CNS complications in a girl with angioimmunoblastic lymphadenopathy with dysproteinemia (AILD). Horneff G, et al. **Neuropediatrics** 1996 Aug;27(4):219–22
Cerebellomedullary compression in recessive craniometaphyseal dysplasia. Boltshauser E, et al.
Neuroradiology 1996 May;38 Suppl 1:S193–5
Bone marrow transplantation in children. Imaging assessment of complications. Benya EC, et al.
Pediatr Clin North Am 1997 Jun;44(3):741–61 (30 ref.)
Hypertensive encephalopathy and reversible magnetic resonance imaging changes in a renal transplant patient. Dedeoglu IO, et al. **Pediatr Nephrol** 1996 Dec;10(6):769–71
Cerebral vasculitis in Henoch–Schönlein purpura: a case report with sequential magnetic resonance imaging. Ha TS, et al. **Pediatr Nephrol** 1996 Oct;10(5):634–6
The systemic inflammatory response to cardiopulmonary bypass and the brain. Smith PL. **Perfusion** 1996 May; 11(3):196–9 (15 ref.)
Recurrent dehydration in a young girl. Zaki M, et al.
Postgrad Med J 1997 Jun;73(860):367–9
Pathogenesis of leukoaraiosis: a review. Pantoni L, et al.
Stroke 1997 Mar;28(3):652–9 (114 ref.)
Spinal cord swelling and brain lesions in lupus myelitis. Kuzma BB, et al. **Surg Neurol** 1997 Aug;48(2):200–2
[Subcutaneous cysticercosis] Del Giudice P, et al.
Ann Dermatol Venereol 1996;123(8):474–7 (30 ref.) (Eng. Abstr.) **(Fre)**
[Frontal mucoceles of orbital or cerebral extension: therapeutic strategy] Périé S, et al.
Ann Otolaryngol Chir Cervicofac 1996;113(7–8):384–91 (Eng. Abstr.) **(Fre)**
[Endocranial complications of cholesteatoma: apropos of 8 cases] Darrouzet V, et al.
Rev Laryngol Otol Rhinol (Bord) 1997;118(2):79–86 (26 ref.) (Eng. Abstr.) **(Fre)**
[Gouty encephalopathy: myth or reality?] Alla P, et al.
Rev Med Interne 1997;18(6):474–6 (Eng. Abstr.) **(Fre)**
[Conference at the Salpêtrière. 1995 January. Progressive multifocal cerebral involvement in a 70-year-old woman] Delattre JY, et al. **Rev Neurol (Paris)** 1996 Nov; 152(11):711–7 **(Fre)**
[Epilepsy, cerebral calcifications and celiac disease] Ferroir JP, et al. **Rev Neurol (Paris)** 1997 Jun;153(5):354–6 (10 ref.) (Eng. Abstr.) **(Fre)**
[Infection: impaired consciousness as the initial symptom. Clinical and pathophysiologic aspects of septic encephalopathy] Schwarz S, et al. **Nervenarzt** 1997 Apr; 68(4):292–7 (Eng. Abstr.) **(Ger)**
[Reversible posterior leukoencephalopathy: significance in everyday clinical practice] Togni M, et al.
Schweiz Med Wochenschr 1997 Jul 22;127(29–30):1242–6 (Eng. Abstr.) **(Ger)**
[Predictive indicators for progression to severe complications(hemolytic-uremic syndrome and encephalopathy) and their prevention in enterohemorrhagic Escherichia coli infection] Joh K.
Nippon Rinsho 1997 Mar;55(3):700–5 (21 ref.) (Eng. Abstr.) **(Jpn)**
[A chronic encapsulated expanding hematoma with cyst formation caused by rupture of arteriovenous malformation: a case report] Sakamoto T, et al.
No Shinkei Geka 1997 Jan;25(1):73–7 (Eng. Abstr.) **(Jpn)**
[A case of Iotrolan encephalopathy] Suga T, et al.
No Shinkei Geka 1996 Nov;24(11):1051–4 (Eng. Abstr.) **(Jpn)**
[A case of hereditary sensory and autonomic neuropathy type IV diagnosed following the development of acute encephalopathy due to heat stroke] Juri T, et al.
No To Hattatsu 1997 May;29(3):254–60 (Eng. Abstr.) **(Jpn)**
[Intraventricular arachnoid cyst—on the origin of intraventricular arachnoid cysts] Okamura K, et al.
No To Shinkei 1996 Nov;48(11):1015–21 (Eng. Abstr.) **(Jpn)**
[A reversible posterior leukoencephalopathy syndrome in a patient with classical polyarteritis nodosa] Arai M, et al.
Rinsho Shinkeigaku 1997 Jan;37(1):64–6 (Eng. Abstr.) **(Jpn)**
[Neuropsychiatric symptoms and findings in systemic lupus erythematosus] Lund C, et al. **Tidsskr Nor Laegeforen** 1997 May 30;117(14):2043–5 (Eng. Abstr.) **(Nor)**
[The neurochemical, molecular and ultrastructural mechanisms of the formation of latent postresuscitation encephalopathy] Kozhura VL, et al.
Anesteziol Reanimatol 1996 Sep–Oct;(5):52–6 (Eng. Abstr.) **(Rus)**
[Local destruction of Deiters' lateral vestibular nucleus (an experimental model of a focal brain stem lesion)] Sharova EV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun;46(3):583–91 (Eng. Abstr.) **(Rus)**
[Neurological manifestations in patients with sera positive for Borrelia burgdorferi (see comments) (published erratum appears in Neurologia 1997 May;12(5):200)] Corral I, et al. **Neurologia** 1997 Jan;12(1):2–8 (Eng. Abstr.). Comment in: Neurologia 1997 Jun–Jul;12(6):268–9. **(Spa)**
[Miller–Fisher syndrome associated with toxoplasmosis] Iñiguez C, et al. **Neurologia** 1997 Apr;12(4):172–4 (Eng. Abstr.) **(Spa)**
[Neuro-AIDS] Tellechea N, et al. **Rev Neurol** 1997 Jun; 25(142):903–5 (Eng. Abstr.) **(Spa)**

GENETICS

Identification of a duplication of Xq28 associated with bilateral periventricular nodular heterotopia. Fink JM, et al. **Am J Hum Genet** 1997 Aug;61(2):379–87
A new family with periventricular nodular heterotopia and peculiar dysmorphic features. A probable X-linked dominant trait. Musumeci SA, et al. **Arch Neurol** 1997 Jan; 54(1):61–4
Hereditary cerebral hemorrhage with amyloidosis–Dutch type (HCHWA–D): I—A review of clinical, radiologic and genetic aspects. Bornebroek M, et al. **Brain Pathol** 1996 Apr;6(2):111–4 (43 ref.)
Prion protein amyloidosis. Ghetti B, et al. **Brain Pathol** 1996 Apr;6(2):127–45 (90 ref.)
The molecular pathology of hereditary cystatin C amyloid angiopathy causing brain hemorrhage. Olafsson I, et al. **Brain Pathol** 1996 Apr;6(2):121–6 (45 ref.)
Trinucleotide-repeat expansions and neurodegenerative disease: a mechanism of pathogenesis. Hannan AJ.
Clin Exp Pharmacol Physiol 1996 Dec;23(12):1015–20 (48 ref.)
Microcephaly and intracranial calcification: two new cases [letter] Monastiri K, et al. **Clin Genet** 1997 Feb;51(2):142–3
Molecular pathology of familial central diabetes insipidus. Meier CA. **Eur J Endocrinol** 1996 Jun;134(6):683–4 (8 ref.)
cDNA cloning of a human homologue of the Caenorhabditis elegans cell fate-determining gene mab-21: expression, chromosomal localization and analysis of a highly polymorphic (CAG)n trinucleotide repeat. Margolis RL, et al. **Hum Mol Genet** 1996 May;5(5):607–16
The relationship between (CAG)n repeat number and age of onset in a family with dentatorubral–pallidoluysian atrophy (DRPLA): diagnostic implications of confirmatory and predictive testing. Potter NT. **J Med Genet** 1996 Feb; 33(2):168–70
Disinhibition–dementia–parkinsonism–amyotrophy complex (DDPAC) is a non-Alzheimer's frontotemporal dementia. Wilhelmsen KC. **J Neural Transm Suppl** 1997;49:269–75 (35 ref.)
Protection against developmental retardation in apolipoprotein E-deficient mice by a fatty neuropeptide: implications for early treatment of Alzheimer's disease. Gozes I, et al. **J Neurobiol** 1997 Sep;33(3):329–42
Differential pattern in tissue-specific somatic mosaicism of expanded CAG trinucleotide repeats in dentatorubral–pallidoluysian atrophy, Machado–Joseph disease, and X-linked recessive spinal and bulbar muscular atrophy. Tanaka F, et al. **J Neurol Sci** 1996 Jan; 135(1):43–50
Autosomal dominant early onset dementia and leukoencephalopathy in a Japanese family: clinical, neuroimaging and genetic studies. Utatsu Y, et al.
J Neurol Sci 1997 Mar 20;147(1):55–62
Megencephaly: a new mouse mutation on chromosome 6 that causes hypertrophy of the brain. Donahue LR, et al.
Mamm Genome 1996 Dec;7(12):871–6
Dentatorubral and pallidoluysian atrophy (DRPLA). Clinical and neuropathological findings in genetically confirmed North American and European pedigrees. Becher MW, et al. **Mov Disord** 1997 Jul;12(4):519–30 (76 ref.)
Cloning and expression of the rat atrophin-I (DRPLA disease gene) homologue. Loev SJ, et al. **Neurobiol Dis** 1995 Jun; 2(3):129–38
Familial idiopathic brain calcification with autosomal dominant inheritance. Kobari M, et al. **Neurology** 1997 Mar; 48(3):645–9
Isolated bilateral masseter atrophy in X-linked recessive bulbospinal neuronopathy. Suzuki T, et al. **Neurology** 1997 Feb;48(2):539–40
Dentatorubral–pallidoluysian atrophy proteins in lymphoblastoid cells. Yazawa I, et al. **Neurology** 1996 Aug; 47(2):586–8
MRI of a family with focal abnormalities of gyration. Muntaner L, et al. **Neuroradiology** 1997 Aug;39(8):605–8
Expression of the LIS–1 gene product in brain anomalies with a migration disorder. Isumi H, et al.
Pediatr Neurol 1997 Jan;16(1):42–4
Immunohistochemical expression of cell adhesion molecule L1 in hemimegalencephaly. Tsuru A, et al.
Pediatr Neurol 1997 Jan;16(1):45–9
The Aircardi-Goutières syndrome: variable clinical expression in two siblings. Verrips A, et al.
Pediatr Neurol 1997 May;16(4):323–5
Aneuploidy risk with isolated choroid plexus cysts [letter] Cuckle HS, et al. **Prenat Diagn** 1996 Oct;16(10):967–8
Is genetic amniocentesis warranted when isolated choroid plexus cysts are found? Gray DL, et al. **Prenat Diagn** 1996 Nov;16(11):983–90
Isolated choroid plexus cysts and aneuploidy [letter] Kilby M, et al. **Prenat Diagn** 1997 Aug;17(8):785
Fetal choroid plexus cysts—is a genetic evaluation indicated? Sharony R. **Prenat Diagn** 1997 Jun;17(6):519–24 (43 ref.)
Glutathione S-transferase M1 null genotype as a risk modifier for solvent-induced chronic toxic encephalopathy. Söderkvist P, et al. **Scand J Work Environ Health** 1996 Oct;22(5):360–3
[Magnetic resonance studies of dentato-rubro-pallido-luysian atrophy—correlation with clinical severity and age of onset.] Otsuka H, et al.
No To Shinkei 1996 Sep;48(9):818–23 (Eng. Abstr.) **(Jpn)**
[Two siblings with familial schizencephaly—report of a family and review in relation to clinical features and neuroradiological findings] Ueda M, et al.
Rinsho Shinkeigaku 1996 Jun;36(6):774–9 (22 ref.) (Eng. Abstr.) **(Jpn)**
[Familial strio-pallido-+-dentate calcification] Prieto JM, et al. **Rev Neurol** 1997 Aug;25(144):1213–5 (Eng. Abstr.) **(Spa)**

HISTORY

Harvey Cushing (1869–1939). Horwitz NH. **Neurosurgery** 1996 Jul;39(1):205–9

IMMUNOLOGY

Antiphospholipid antibodies and cerebral lupus. Harris EN, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:270–8 (53 ref.)
Basic mechanisms of brain inflammation. Lassmann H.
J Neural Transm Suppl 1997;50:183–90 (48 ref.)
Cytokine levels during mild and cerebral falciparum malaria in children living in a mesoendemic area. Baptista JL, et al. **Trop Med Int Health** 1997 Jul;2(7):673–9
[Role of the cytokine network in the CNS and psychiatric disorders] Müller N. **Nervenarzt** 1997 Jan;68(1):11–20 (117 ref.) (Eng. Abstr.) **(Ger)**

METABOLISM

Compensatory regeneration of the damaged adult human brain: neuroplasticity in a clinical perspective. Goldman S, et al. **Adv Neurol** 1997;73:99–107 (46 ref.)
Inflammation in AIDS and the role of the macrophage in brain pathology. Achim CL, et al. **Curr Opin Neurol** 1996 Jun;9(3):221–5 (52 ref.)
Biochemical markers of cerebral damage [editorial] Gao F, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):113–7
Adenosine A2A receptor antagonism potentiates L-DOPA-induced turning behaviour and c-fos expression in 6-hydroxydopamine-lesioned rats. Fenu S, et al.
Eur J Pharmacol 1997 Feb 26;321(2):143–7
Pentoxifylline decreases brain levels of platelet activating factor in murine AIDS. Sei Y, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):81–4
Effect of perinatal asphyxia on systemic and intracerebral pH and glycolysis metabolism in the rat. Engidawork E, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):390–6
Expression of complement in the brain: role in health and disease. Morgan BP, et al. **Immunol Today** 1996 Oct; 17(10):461–6 (34 ref.)
Enhanced GABA release in cell-damaging conditions in the adult and developing mouse hippocampus. Saransaari P, et al. **Int J Dev Neurosci** 1997 Apr;15(2):163–74
Platelet-activating factor: a case for its role in CNS function and brain injury. Feuerstein GZ.
J Lipid Mediat Cell Signal 1996 Sep;14(1–3):109–14 (10 ref.)
Dialysis and transplantation affect cerebral abnormalities of end-stage renal disease. Michaelis T, et al.
J Magn Reson Imaging 1996 Mar–Apr;6(2):341–7
Nitric oxide-mediated mitochondrial damage in the brain:

mechanisms and implications for neurodegenerative diseases. Bolaños JP, et al. **J Neurochem** 1997 Jun; 68(6):2227–40 (173 ref.)

A rostrocaudal gradient of nitrate plus nitrite concentrations in CSF [letter] Surtees R, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan;62(1):100–1

Reply to M. Yamada's letter to the editor: an amyloid protein in familial cerebral amyloid angiopathy (British type) [letter; comment] Plant GT. **J Neurol Sci** 1996 Jun; 138(1–2):168. Comment on: J Neurol Sci 1996 Feb;135(2):181.

alpha–MSH modulates local and circulating tumor necrosis factor–alpha in experimental brain inflammation. Rajora N, et al. **J Neurosci** 1997 Mar 15;17(6):2181–6

Changes of D1 and D2 dopamine receptor mRNA in the brains of monkeys lesioned with 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine: correction with chronic administration of L–3,4–dihydroxyphenylalanine. Morissette M, et al. **Mol Pharmacol** 1996 Nov;50(5):1073–9

Proton magnetic resonance spectroscopy of a gray matter heterotopia. Marsh L, et al. **Neurology** 1996 Dec; 47(6):1571–4

Expression and distribution of CC chemokine macrophage inflammatory protein–1 alpha/LD78 in the human brain. Ishizuka K, et al. **Neuroreport** 1997 Mar 24;8(5):1215–8

Neuropsychiatric aspects of cytokines research: an overview. Malek–Ahmadi P. **Neurosci Biobehav Rev** 1996 Autumn; 20(3):359–65 (89 ref.)

Status of the neonatal rat brain after NMDA–induced excitotoxic injury as measured by MRI, MRS and metabolic imaging. Dijkhuizen RM, et al. **NMR Biomed** 1996 Apr;9(2):84–92

Pharmacokinetic analysis of benzodiazepine receptor binding of [123I]iomazenil in human brain. Ito K, et al. **Pharm Res** 1997 Aug;14(8):999–1003

Urea cycle disorders: clinical paradigm of hyperammonemic encephalopathy. Brusilow SW. **Prog Liver Dis** 1995; 13:293–309 (52 ref.)

Phosphoinositide signaling in human brain. Pacheco MA, et al. **Prog Neurobiol** 1996 Oct;50(2–3):255–73 (65 ref.)

MICROBIOLOGY

Central nervous system pneumocystosis in a patient with AIDS. Bartlett JA, et al. **Clin Infect Dis** 1997 Jul;25(1):82–5 (27 ref.)

Isolated cerebral aspergilloma—long–term survival of a renal transplant recipient. Mrowka C, et al. **Clin Nephrol** 1997 Jun;47(6):394–6

Isolation of Mycoplasma hominis from a brain abscess. Zheng X, et al. **J Clin Microbiol** 1997 Apr;35(4):992–4

Intracranial blastomycosis presenting as a suprasellar mass: MR findings. Mohazab HR, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):845–7

Local application of antimycotics in mucormycosis cerebri: a case report. Mohsenipour I, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):521–2

Rhinocerebral and systemic mucormycosis. Clinical experience with 36 cases. Rangel–Guerra RA, et al. **J Neurol Sci** 1996 Nov;143(1–2):19–30

Infective endocarditis—a photo essay. Varadarajan J, et al. **J Neuroophthalmol** 1996 Dec;16(4):291–4

Intracranial complications of sinusitis. Giannoni CM, et al. **Laryngoscope** 1997 Jul;107(7):863–7

Rhinocerebral mucormycosis: evolution of the disease and treatment options. Peterson KL, et al. **Laryngoscope** 1997 Jul;107(7):855–62

Central nervous system infection associated with Bartonella quintana: a report of two cases. Parrott JH, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):403–8

Intracranial fungal granuloma. Sharma BS, et al. **Surg Neurol** 1997 May;47(5):489–97

[Neuroborreliosis: diagnostic controversy (letter; comment)] del Real MA, et al. **Neurologia** 1997 Jun–Jul;12(6):268–9. Comment on: Neurologia 1997 Jan;12(1):2–8. **(Spa)**

MORTALITY

Survival of patients with pathologically proven multiple system atrophy: a meta–analysis. Ben–Shlomo Y, et al. **Neurology** 1997 Feb;48(2):384–93

PARASITOLOGY

On tomatotopic sopranos [letter; comment] Miaux Y. **AJNR Am J Neuroradiol** 1997 Apr;18(4):793–4. Comment on: AJNR Am J Neuroradiol 1996 Apr;17(4):798–9.

Cerebral schistosomiasis: MR and CT appearance. Preidler KW, et al. **AJNR Am J Neuroradiol** 1996 Sep; 17(8):1598–600

Humoral and cellular immune response within the subarachnoid space of patients with neurocysticercosis. Ostrosky–Zeichner L, et al. **Arch Med Res** 1996 Winter; 27(4):513–7

Severe forms of neurocysticercosis: treatment with albendazole. Agapejev S, et al. **Arq Neuropsiquiatr** 1996 Mar;54(1):82–93

Cerebral cysticercosis in Campina Grande, Paraíba—northern Brazil. Computerized tomography diagnosis importance. Gonçalves–Coêlho TD, et al. **Arq Neuropsiquiatr** 1996 Mar;54(1):94–7

Neurocysticercosis. Del Brutto OH. **Curr Opin Neurol** 1997 Jun;10(3):268–72 (47 ref.)

Cavernous sinus syndrome associated with neurocysticercosis [letter] Whitefield L, et al. **Eye** 1996;10 (Pt 5):642–3

Pathogenesis of cerebral malaria. Patnaik JK. **Indian J Pathol Microbiol** 1996 Dec;39(5):415–8

Chronic cerebral malaria—is there such a clinical entity? [see comments] Mahapatra SK. **J Assoc Physicians India** 1995 Jan;43(1):67. Comment in: J Assoc Physicians India 1995 Sep;43(9):657–8.

Coexistence of enteric fever with malaria [letter; comment] [see comments] Singh PS. **J Assoc Physicians India** 1995 Jan;43(1):71–2. Comment on: J Assoc Physicians India 1995 Nov;43(11):809. Comment in: J Assoc Physicians India 1995 Aug;43(8):585–6.

Neurocysticercosis. Chandra P, et al. **J Indian Med Assoc** 1996 Feb;94(2):82

Cerebral sparganosis: increased uptake of technetium–99m–HMPAO. You DL, et al. **J Nucl Med** 1997 Jun;38(6):939–41

Case report: neurocysticercosis in pregnancy. Paparone PW, et al. **N J Med** 1996 Feb;93(2):91–4

Tumor–like lesion due to Chagas' disease in a patient with lymphocytic leukemia. Salgado PR, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug;38(4):285–8

Large cerebral infarction during praziquantel therapy in neurocysticercosis [see comments] Bang OY, et al. **Stroke** 1997 Jan;28(1):211–3. Comment in: Stroke 1997 May;28(5):1088. Comment in: Stroke 1997 Aug;28(8):1648–9.

Multiple infected extradural parasellar hydatid cysts. Behari S, et al. **Surg Neurol** 1997 Jul;48(1):53–7 (32 ref.)

Treatment of brain cysticercosis. Sotelo J. **Surg Neurol** 1997 Aug;48(2):110–2 (34 ref.)

Presentation of parasites and the radiology of parasitic diseases. Zaiman H. **Trop Doct** 1997 Jul;27(3):187

[Cerebral cysticercosis (letter)] Saadaoui H, et al. **J Belge Radiol** 1996 Aug;79(4):167 **(Fre)**

[Cerebral vascular accidents due to hydatid embolisms. Apropos of 2 cases] el Quessar A, et al. **J Neuroradiol** 1996 Sep;23(2):74–8 (Eng. Abstr.) **(Fre)**

[Solitary primary cerebral echinococcosis. Report of a case] Arcidiacono G, et al. **Minerva Med** 1997 Mar;88(3):87–92 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Role of cytology in the intraoperative diagnosis of HIV–positive patients undergoing stereotactic brain biopsy. Cajulis RS, et al. **Acta Cytol** 1997 Mar–Apr;41(2):481–6

Micro–invasive squamous cell carcinoma arising in a pre–existing intraventricular epidermoid cyst. Case report and literature review. Bayindir C, et al. **Acta Neurochir (Wien)** 1996;138(8):1008–12

Morphology and immunohistochemistry of a symptomatic septum pellucidum cavum Vergae cyst in man. Ronsin E, et al. **Acta Neurochir (Wien)** 1997;139(4):366–71; discussion 372

Transient expression of apolipoprotein–E in neonates with pontosubicular neuron necrosis. Arai Y, et al. **Acta Neuropathol (Berl)** 1996;91(4):396–9

Neuropathology of the dentate nucleus in developmental disorders. Kumada S, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):36–41

Rosai–Dorfman disease presenting with multiple orbital and intracranial masses. Resnick DK, et al. **Acta Neuropathol (Berl)** 1996;91(5):554–7

Delayed spongiform leukoencephalopathy after heroin abuse. Rizzuto N, et al. **Acta Neuropathol (Berl)** 1997 Jul; 94(1):87–90

Clinical and radiologic findings in progressive facial hemiatrophy (Parry–Romberg syndrome). Cory RC, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):751–7

Graft–vs–host disease in the central nervous system [letter; comment] Armstrong D, et al. **Am J Clin Pathol** 1997 Mar; 107(3):379. Comment on: Am J Clin Pathol 1977 Apr;89(4):543–6.

Anophthalmia, intracerebral cysts, and cleft lip/palate: expansion of the phenotype in oculocerebrocutaneous syndrome? Angle B, et al. **Am J Med Genet** 1997 Jan 10; 68(1):39–42

Unusual clinical presentations of cortical–basal ganglionic degeneration. Bergeron C, et al. **Ann Neurol** 1996 Dec; 40(6):893–900

Muscle–eye–brain disease: a neuropathological study. Haltia M, et al. **Ann Neurol** 1997 Feb;41(2):173–80

Human T–cell lymphotropic virus type 1 myositis, peripheral neuropathy, and cerebral white matter lesions in the absence of spastic paraparesis. Douen AG, et al. **Arch Neurol** 1997 Jul;54(7):896–900

Unusual multicystic lesions of the brainstem are mesencephalo–thalamic expanding lacunae [letter; comment] [see comments] Poirier J. **Br J Neurosurg** 1997 Feb;11(1):87–8 (6 ref.). Comment on: Br J Neurosurg 1996 Apr;10(2):193–6. Comment in: Br J Neurosurg 1997 Jun;11(3):265.

Directional defects in pursuit and motion perception in humans with unilateral cerebral lesions. Barton JJ, et al. **Brain** 1996 Oct;119 (Pt 5):1535–50

Pathological aging in Africans: a benign form of cerebral amyloidosis vs. pre–clinical Alzheimer's disease? [editorial; comment] Dickson DW. **Brain Pathol** 1996 Apr;6(2):107–8 . Comment on: Brain Pathol 1996 Apr;6(2):101–7.

Bacterial infections. Gray F. **Brain Pathol** 1997 Jan; 7(1):629–47 (118 ref.)

Hereditary cerebral hemorrhage with amyloidosis–Dutch type (HCHWA–D): II—A review of histopathological aspects. Maat–Schieman ML, et al. **Brain Pathol** 1996 Apr; 6(2):115–20 (54 ref.)

The molecular pathology of hereditary cystatin C amyloid angiopathy causing brain hemorrhage. Olafsson I, et al. **Brain Pathol** 1996 Apr;6(2):121–6 (45 ref.)

Neuroschistosomiasis. Pittella JE. **Brain Pathol** 1997 Jan; 7(1):649–62 (134 ref.)

A rare form of adult onset leukodystrophy: orthochromatic leukodystrophy with pigmented glia. Shannon P, et al. **Can J Neurol Sci** 1997 May;24(2):146–50

Pathogenesis of lacuna–like cyst formation and diffuse degeneration of the white matter in the brain of stroke–prone spontaneously hypertensive rats. Hazama F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S260–1

A case of CNS cryptococcosis presenting with slowly alternating skew deviation. Deibert E, et al. **Clin Neurol Neurosurg** 1996 May;98(2):192–3

A 14–year–old patient with Ewing's sarcoma presenting at autopsy with multiple neurofibrillary tangles and Lewy bodies in addition to hemiatrophy of the central nervous system. Okeda R, et al. **Clin Neuropathol** 1997 Mar–Apr; 16(2):77–84

Magnetic resonance imaging of the brain, neck and cervical spine in mild Hunter's syndrome (mucopolysaccharidoses type II). Parsons VJ, et al. **Clin Radiol** 1996 Oct; 51(10):719–23

Morphological features of encephalopathy after chronic administration of the antiepileptic drug valproate to rats. A transmission electron microscopic study of capillaries in the cerebellar cortex. Sobaniec–Lotowska ME, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):65–75

Pathogenesis of cerebral malaria. Patnaik JK. **Indian J Pathol Microbiol** 1996 Dec;39(5):415–8

Striopallidodentate calcifications: nosographic, neuropathological and clinical proposal. Case report. Francia A, et al. **Ital J Neurol Sci** 1996 Apr;17(2):169–73

Conventional and maximum length sequences middle latency response in patients with central nervous system lesions. Musiek FE, et al. **J Am Acad Audiol** 1997 Jun;8(3):173–80

Neuropathological studies of chickens infected with highly pathogenic avian influenza viruses. Kobayashi Y, et al. **J Comp Pathol** 1996 Feb;114(2):131–47

L–2–Hydroxyglutaric aciduria: neuropathological correlations and first report of severe neurodegenerative disease and neonatal death. Chen E, et al. **J Inherit Metab Dis** 1996;19(3):335–43

Structural basis of dementia in neurodegenerative disorders. Jellinger KA. **J Neural Transm Suppl** 1996;47:1–29 (175 ref.)

Apoptosis in neurodegenerative disorders. Mochizuki H, et al. **J Neural Transm Suppl** 1997;50:125–40

Apoptosis in neurodegenerative disorders: potential for therapy by modifying gene transcription. Tatton WG, et al. **J Neural Transm Suppl** 1997;49:245–68 (156 ref.)

Neurological picture. Acute disseminated encephalomyelitis presenting as multiple cystic lesions. De Recondo A, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):15

Bilateral total deafness due to pontine haematoma. Egan CA, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):628–31

Neurological picture. Reversibility of brain lesions in eclampsia. Manfredi M. **J Neurol Neurosurg Psychiatry** 1997 Jan;62(1):9

Kainate–induced brain lesion: similar local and remote histopathological and molecular changes as in ischemic brain infarct. Liu HM, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):787–94

Clinical, motor, and biological correlates of depressive disorders after focal subcortical lesions. Lauterbach EC, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring; 9(2):259–66

Corticobasal degeneration: neuropsychological and clinical correlates. Mimura M, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter;9(1):94–8

Rat cell cultures: experimental models to study neurodegenerative disorders and new pharmacological compounds. Maneiro E, et al. **Methods Find Exp Clin Pharmacol** 1996 Nov;18(9):615–45 (122 ref.)

Mechanisms of neuronal cell death. An overview. Waters CM. **Mol Chem Neuropathol** 1996 May–Aug; 28(1–3):145–51 (41 ref.)

Brain biopsy for HIV–infected patients with intracranial lesions. Heald AE. **N C Med J** 1997 Mar–Apr;58(2):106–9

Learning from our errors [letter; comment] Boardman HS. **N Engl J Med** 1997 Mar 20;336(12):876–7; discussion 877–8 . Comment on: N Engl J Med 1996 Oct 3;335(14):1049–53.

Decreased apoptosis in the brain and premature lethality in CPP32–deficient mice. Kuida K, et al. **Nature** 1996 Nov 28;384(6607):368–72

Topography of brain atrophy during normal aging and Alzheimer's disease. Double KL, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):513–21

Immunohistochemical detection of tumor marker in recurrent clivus enterogenous cyst—case report. Fujita T, et al. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):479–82

Hypothalamic hamartoma associated with dural arteriovenous fistula of the transverse–sigmoid sinus—case report. Matsuyama T, et al. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):468–71

Reversible MRI findings in a patient with Hashimoto's

encephalopathy. Bohnen NI, et al. **Neurology** 1997 Jul; 49(1):246–7

Transcranial focal magnetic stimulation in plagiocephaly [letter; comment] Coppola R, et al. **Neurology** 1996 Sep; 47(3):851–2. Comment on: Neurology 1995 Dec;45(12):2255–61.

Neuro–Behçet's disease in Japan [letter] Ikeda K, et al. **Neurology** 1996 Aug;47(2):614–5

A new leukoencephalopathy with vanishing white matter. van der Knaap MS, et al. **Neurology** 1997 Apr;48(4):845–55

Evidence for neuronal apoptosis in pontosubicular neuron necrosis. Brück Y, et al. **Neuropathol Appl Neurobiol** 1996 Feb;22(1):23–9

Use of subvoxel registration and subtraction to improve demonstration of contrast enhancement in MRI of the brain. Curati WL, et al. **Neuroradiology** 1996 Nov; 38(8):717–23

Parenchymal neurocysticercosis: follow–up and staging by MRI. Dumas JL, et al. **Neuroradiology** 1997 Jan;39(1):12–8

No blindsight following hemidecortication in human subjects? Stoerig P, et al. **Neuroreport** 1996 Aug 12; 7(12):1990–4

alpha–Tocopherol attenuates alcohol–induced cerebral vascular damage in rats: possible role of oxidants in alcohol brain pathology and stroke. Altura BM, et al. **Neurosci Lett** 1996 Dec 20;220(3):207–10

Advanced glycation modification of Rosenthal fibers in patients with Alexander disease. Castellani RJ, et al. **Neurosci Lett** 1997 Aug 8;231(2):79–82

Nuclear condensation and fragmentation following cerebral hypoxia–ischemia occurs more frequently in immature than older rats. Sidhu RS, et al. **Neurosci Lett** 1997 Feb 21; 223(2):129–32

Intracranial plasma–cell granuloma: a case report. Hirohata M, et al. **Noshuyo Byori** 1996 Nov;13(2):133–8 (20 ref.)

Neurosarcoidosis of the conus medullaris and cauda equina presenting as paraparesis: case report and literature review. Ku A, et al. **Paraplegia** 1996 Feb;34(2):116–20

Acute encephalopathy induced in cats with a stealth virus isolated from a patient with chronic fatigue syndrome. Martin WJ, et al. **Pathobiology** 1995;63(3):115–8

Familial Dandy–Walker malformation and leukodystrophy. Humbertclaude VT, et al. **Pediatr Neurol** 1997 May; 16(4):326–8

Cortical dysplasia. Armstrong DD, et al. **Pediatr Pathol Lab Med** 1996 Jan–Feb;16(1):131–6

Cellular composition of the angiofibromas in tuberous sclerosis. Benjamin DR. **Pediatr Pathol Lab Med** 1996 Nov–Dec;16(6):893–9

Alexander disease: a case report and review of the literature. Reichard EA, et al. **Pediatr Pathol Lab Med** 1996 Mar–Apr; 16(2):327–43 (69 ref.)

The role of apoptosis in neurodegenerative diseases. Hajimohamadreza I, et al. **Prog Drug Res** 1997;48:55–98 (172 ref.)

Lyme encephalopathy: a neuropsychological perspective. Kaplan RF, et al. **Semin Neurol** 1997 Mar;17(1):31–7 (42 ref.)

Intraoperative diagnostic techniques for stereotactic brain biopsy: cytology versus frozen–section histopathology. Hayden R, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):187–93

Interactive effects of age and hypertension on volumes of brain structures. Strassburger TL, et al. **Stroke** 1997 Jul; 28(7):1410–7

Surgical treatment of epilepsy: the problem of lesion/focus incongruence. Clarke DB, et al. **Surg Neurol** 1996 Dec; 46(6):579–85; discussion 585–6

Computerized tomography and magnetic resonance guided stereotactic brain biopsy in nonimmunocompromised and AIDS patients. Nicolato A, et al. **Surg Neurol** 1997 Sep; 48(3):267–76; discussion 276–7

[A pathological survey of the therapeutic effect on experimental hypoxic–ischemic encephalopathy] Zhang L, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr; 25(2):102–4 (Eng. Abstr.) **(Chi)**

[Quantitative analysis in neuropathology] Scarpelli M, et al. **Pathologica** 1996 Aug;88(4):322–3 **(Ita)**

[Fluid attenuated inversion recovery sequences: indications in neuroradiology] Aprile I, et al. **Radiol Med (Torino)** 1996 Nov;92(5):543–7 (Eng. Abstr.) **(Ita)**

[Magnetic resonance of the encephalon in 17 patients with ocular Behçet's disease] Di Biasi C, et al. **Radiol Med (Torino)** 1997 Apr;93(4):348–51 (Eng. Abstr.) **(Ita)**

[Appropriateness of the term, "acute necrotic encephalopathy" (letter)] Kimura S, et al. **No To Hattatsu** 1997 Jul;29(4):331–3 **(Jpn)**

[An autopsy case of corticobasal degeneration mimicking frontal Pick's disease] Miyazaki H, et al. **No To Shinkei** 1997 Mar;49(3):277–82 (Eng. Abstr.) **(Jpn)**

[(Neurological CPC.55). A 60–year–old woman with progressive cerebellar ataxia, myoclonus, and dementia (clinical conference)] Morikawa N, et al. **No To Shinkei** 1997 Jul;49(7):663–71 (Eng. Abstr.) **(Jpn)**

[An autopsied case doubly infected by mucor mycelia and herpes simplex virus–2 in the remission state after bone marrow transplantation for acute myelogenous leukemia] Muramori F, et al. **No To Shinkei** 1997 May;49(5):449–53 (Eng. Abstr.) **(Jpn)**

[Two siblings with familial schizencephaly--report of a family and review in relation to clinical features and neuroradiological findings] Ueda M, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):774–9 (22 ref.) (Eng. Abstr.) **(Jpn)**

[The structure of pseudocystic formations in the temporal lobe in focal epilepsy] Novozhilova AP, et al. **Morfologiia** 1997;111(2):28–31 (Eng. Abstr.) **(Rus)**

[Usefulness of cerebral biopsy in focal cerebral lesions in patients with human immunodeficiency virus infection] Cordero E, et al. **Med Clin (Barc)** 1996 Nov 30; 107(19):738–41 (Eng. Abstr.) **(Spa)**

[Clinical and molecular pathology in brain aging] Coria F, et al. **Rev Neurol** 1997 Jul;25 Suppl 1:S14–7 (35 ref.) **(Spa)**

[Andermann syndrome: presentation of a case] Gurtubay IG, et al. **Rev Neurol** 1997 Jul;25(143):1087–90 (Eng. Abstr.) **(Spa)**

[Morphological and neurochemical dysfunctions in normal cerebral aging] Zarranz JJ. **Rev Neurol** 1997 Jul;25 Suppl 1:S9–13 (23 ref.) **(Spa)**

PHYSIOPATHOLOGY

Vibrameter testing facilitates the diagnosis of uremic and alcoholic polyneuropathy. Hilz MJ, et al. **Acta Neurol Scand** 1995 Dec;92(6):486–90

Perilesional cortical dysfunction and reorganization. Eysel UT. **Adv Neurol** 1997;73:195–206 (38 ref.)

Regional cerebral blood flow response in gray matter heterotopia during finger tapping: an activation study with positron emission tomography. Hatazawa J, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):479–82

Severe cerebral fat embolism. Needham AP, et al. **Anaesth Intensive Care** 1996 Aug;24(4):502–4

Neuronal migration abnormality in peroxisomal bifunctional enzyme defect. Kaufmann WE, et al. **Ann Neurol** 1996 Feb; 39(2):268–71

Human T–cell lymphotropic virus type II–associated myelopathy: clinical and immunologic profiles. Lehky TJ, et al. **Ann Neurol** 1996 Nov;40(5):714–23

Room tilt illusion. A central otolith dysfunction. Tiliket C, et al. **Arch Neurol** 1996 Dec;53(12):1259–64

The intrapartum CTG prior to neonatal encephalopathy at term: a case–control study. Spencer JA, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):25–8

Startle reflex and emotion modulation impairment after a right amygdala lesion. Angrilli A, et al. **Brain** 1996 Dec; 119 (Pt 6):1991–2000

Directional defects in pursuit and motion perception in humans with unilateral cerebral lesions. Barton JJ, et al. **Brain** 1996 Oct;119 (Pt 5):1535–50

Deficits of smooth pursuit eye movements after frontal and parietal lesions. Heide W, et al. **Brain** 1996 Dec;119 (Pt 6):1951–69

Temporal lobe epilepsy caused by mesial temporal sclerosis and temporal neocortical lesions. A clinical and electroencephalographic study of 46 pathologically proven cases. O'Brien TJ, et al. **Brain** 1996 Dec;119 (Pt 6):2133–41

Paradoxical functional facilitation in brain–behavior research: a critical review [letter; comment] Ovsiew F. **Brain** 1997 Jul;120 (Pt 7):1261–4. Comment on: Brain 1996 Oct;119 (Pt 5):1775–90.

Double dissociations of memory and executive functions in working memory tasks following frontal lobe excisions, temporal lobe excisions or amygdalo–hippocampectomy in man. Owen AM, et al. **Brain** 1996 Oct;119 (Pt 5):1597–615

Hereditary cerebral hemorrhage with amyloidosis–Dutch type (HCHWA–D): I—A review of clinical, radiologic and genetic aspects. Bornebroek M, et al. **Brain Pathol** 1996 Apr;6(2):111–4 (43 ref.)

Visual discrimination and short–term memory for random patterns in patients with a focal cortical lesion. Greenlee MW, et al. **Cereb Cortex** 1997 Apr–May;7(3):253–67

Early infantile epileptic encephalopathy: report of one case. Huang LT. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov–Dec;37(6):448–50

Hypogonadotrophic hypogonadism and primary amenorrhoea associated with increased melatonin secretion from a cystic pineal lesion. Walker AB, et al. **Clin Endocrinol (Oxf)** 1996 Sep;45(3):353–6

Bizarre responses, rule detection and frontal lobe lesions. Burgess PW, et al. **Cortex** 1996 Jun;32(2):241–59

Headache caused by raised intracranial pressure and intracranial hypotension. Ramadan NM. **Curr Opin Neurol** 1996 Jun;9(3):214–8 (53 ref.)

Subclinical brain dysfunction in patients with diabetic ketoacidosis [letter] Eisenhuber E, et al. **Diabetes Care** 1996 Dec;19(12):1455–6

Potentiation by DSP–4 of EEG slowing and memory impairment in basal forebrain–lesioned rats. Abe K, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):149–55

Adenosine A2A receptor antagonism potentiates L–DOPA–induced turning behaviour and c–fos expression in 6–hydroxydopamine–lesioned rats. Fenu S, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):143–7

Effect of perinatal asphyxia on systemic and intracerebral pH and glycolysis metabolism in the rat. Engidawork E, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):390–6

Hashimoto's encephalopathy: clinical and laboratory findings. Bostantjopoulou S, et al. **Funct Neurol** 1996 Sep–Oct;11(5):247–51

Case report: neurochemical, physiological, and behavioral effects of bright light therapy on a cortically blind patient. Parker JS, et al. **Int J Neurosci** 1996 Dec;88(3–4):273–82

Extubation failure due to post–extubation stridor is better correlated with neurologic impairment than with upper airway lesions in critically ill pediatric patients. Harel Y, et al. **Int J Pediatr Otorhinolaryngol** 1997 Mar 6; 39(2):147–58

Recovery from brain–stem lesions involving the nociceptive pathways: comparison of clinical findings with laser–evoked potentials. Hansen HC, et al. **J Clin Neurophysiol** 1996 Jul;13(4):330–8

Excitotoxicity and neuroprotection. Stahl SM. **J Clin Psychiatry** 1997 Jun;58(6):247–8

Mechanism of disinhibition after brain lesions. Starkstein SE, et al. **J Nerv Ment Dis** 1997 Feb;185(2):108–14 (36 ref.)

Transmissible cerebral amyloidosis. Brown P. **J Neural Transm Suppl** 1996;47:219–29 (38 ref.)

Nitric oxide–mediated mitochondrial damage in the brain: mechanisms and implications for neurodegenerative diseases. Bolaños JP, et al. **J Neurochem** 1997 Jun; 68(6):2227–40 (173 ref.)

Paroxysmal limbic disorders in neuropsychiatry. Salloway S, et al. **J Neuropsychiatry Clin Neurosci** 1997 Summer; 9(3):403–19 (37 ref.)

Neuropsychiatric symptoms from the temporolimbic lobes. Trimble MR, et al. **J Neuropsychiatry Clin Neurosci** 1997 Summer;9(3):429–38 (86 ref.)

Interhemispheric transfer of learning in brain–damaged patients. Petrovici JN. **J Neurosurg Sci** 1997 Mar; 41(1):97–105

Acoustic stimulation in hypoxic–ischemic encephalopathy: heart rate analysis. Manera J, et al. **J Perinat Med** 1997; 25(1):89–95

Computer modeling: a new approach to the investigation of disease [editorial] Reggia JA, et al. **MD Comput** 1997 May–Jun;14(3):160, 162, 164 passim (27 ref.)

Superficial siderosis of the brain: roles for cerebrospinal fluid circulation, iron and the hydroxyl radical. Maurizi CP. **Med Hypotheses** 1996 Oct;47(4):261–4

A new hypothesis of neurodegenerative diseases: the deleterious network hypothesis. Ying W. **Med Hypotheses** 1996 Oct;47(4):307–13

Cytokines and acute neurodegeneration. Rothwell NJ. **Mol Psychiatry** 1997 Mar;2(2):120–1 (5 ref.)

Movement Disorder Society Symposium on Cortical–Basal Ganglionic Degeneration (CBGD) and its Relationship to Other Asymmetrical Cortical Degeneration Syndromes (ACDs). Washington, D.C., October 25–26, 1995. Abstracts. **Mov Disord** 1996 May;11(3):346–57

Myoclonus in corticobasal degeneration. Carella F, et al. **Mov Disord** 1997 Jul;12(4):598–603

Electromyography of the external anal sphincter in patients with Parkinson's disease and multiple system atrophy: frequency of abnormal spontaneous activity and polyphasic motor unit potentials. Schwarz J, et al. **Muscle Nerve** 1997 Sep;20(9):1167–72

Microdialysis in the human brain: review of its applications. Hamani C, et al. **Neurol Res** 1997 Jun;19(3):281–8 (28 ref.)

Contralesionally beating torsional nystagmus in a unilateral rostral midbrain lesion. Helmchen C, et al. **Neurology** 1996 Aug;47(2):482–6

Reliability of the NINDS Myotatic Reflex Scale. Litvan I, et al. **Neurology** 1996 Oct;47(4):969–72

Neurocysticercosis [letter; comment] Monteiro LM, et al. **Neurology** 1996 Nov;47(5):1355. Comment on: Neurology 1995 Mar;45(3 Pt 1):532–8.

Electroencephalographic dysmaturity in preterm infants: a prognostic tool in the early postnatal period. Biagioni E, et al. **Neuropediatrics** 1996 Dec;27(6):311–6

Isolation of a right hemisphere cognitive system in a patient with anarchic (alien) hand sign. Baynes K, et al. **Neuropsychologia** 1997 Aug;35(8):1159–73

Kinematics of goal–directed arm movements in neglect: control of hand in space. Karnath HO, et al. **Neuropsychologia** 1997 Apr;35(4):435–44

Implicit processing of somatosensory stimuli disclosed by a perceptual after–effect. Maravita A. **Neuroreport** 1997 May 6;8(7):1671–4

Subclinical vestibulo–cerebellar, anterior cerebellar lobe and spinocerebellar effects in lead workers in relation to concurrent and past exposure. Yokoyama K, et al. **Neurotoxicology** 1997;18(2):371–80

Occipital–parietal encephalopathy: a new name for an old syndrome. Pavlakis SG, et al. **Pediatr Neurol** 1997 Feb; 16(2):145–8 (11 ref.)

Neurotrophic factors. Thal LJ. **Prog Brain Res** 1996; 109:327–30 (38 ref.)

Endothelin peptides in brain diseases. Nie XJ, et al. **Rev Neurosci** 1996 Jul–Sep;7(3):177–86 (70 ref.)

Increased intracranial pressure and the cerebrospinal fluid spaces. Smith RR, et al. **Semin Ultrasound CT MR** 1996 Jun;17(3):206–20 (24 ref.)

Specific changes in human brain after hypoglycemic injury. Fujioka M, et al. **Stroke** 1997 Mar;28(3):584–7

Cytokines in inflammatory brain lesions: helpful and harmful. Merrill JE, et al. **Trends Neurosci** 1996 Aug;19(8):331–8 (68 ref.)

[Clinical aspects of spasticity in adults] De Reuck J, et al. **J Belge Med Phys Rehabil** 1980;3(2):100–4 **(Dut)**

[Cerebral salt wasting syndrome] Rozin A, et al. **Harefuah** 1997 Jun 1;132(11):768–71 (24 ref.) **(Heb)**

[Functional mapping of the brain in a patient before neurological surgery by superposition of activation SPECT

and MR images] Otsuki H, et al. **No Shinkei Geka** 1996 Jul;24(7):598–603 (26 ref.) **(Jpn)**

[Eicosanoids—brain signal transducers] Lachowicz L, et al. **Postepy Biochem** 1996;42(4):363–8 (23 ref.) **(Pol)**

[Objective complaints and results of memory tests in depression and diffuse brain damage] Wieczorek D, et al. **Psychiatr Pol** 1996 Jul–Aug;30(4):641–52 (Eng. Abstr.) **(Pol)**

[Circadian rhythms in fluctuations in cerebral blood volume and oxygenation of the brain in premature infants with perinatal encephalopathy] Siutkina EV, et al. **Fiziol Cheloveka** 1996 Jan–Feb;22(1):75–81 **(Rus)**

[Changes in F-response parameters in supraspinal lesions of the central nervous system] Jovičić A, et al. **Vojnosanit Pregl** 1996 May–Jun;53(3):187–93 (Eng. Abstr.) **(Scr)**

[Trigeminal neuropathy in progressive systemic sclerosis. Letter] Campello I, et al. **Rev Neurol** 1997 Jan;25(137):137 **(Spa)**

[Plus–minus eyelid syndrome of vascular origin] Moreno-Rojas AJ, et al. **Rev Neurol** 1996 Jan;24(125):94–5 (Eng. Abstr.) **(Spa)**

[Parietal amyotrophy (Silverstein's syndrome). A new case. Letter] Vaamonde-Gamo J, et al. **Rev Neurol** 1997 Feb; 25(138):307–8 **(Spa)**

PREVENTION & CONTROL

Central nervous system trauma. Statham PF, et al. **Baillieres Clin Neurol** 1996 Oct;5(3):497–514 (51 ref.)

Inhibition of (mono)amine oxidase activity and prevention of ifosfamide encephalopathy by methylene blue. Aeschlimann C, et al. **Drug Metab Dispos** 1996 Dec; 24(12):1336–9

Clinical effects of the heparin coated surface in cardiopulmonary bypass. Svenmarker S, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):957–64

Contribution of interferon-gamma in protecting mice during pulmonary and disseminated infection with Cryptococcus neoformans. Kawakami K, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):123–30

Use of hypothermic circulatory arrest for cerebral protection during aortic surgery. Griepp RB, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):312–21 (9 ref.)

Brain protection. Svensson LG. **J Card Surg** 1997 Mar–Apr; 12(2 Suppl):326–9; discussion 329–30 (30 ref.)

Treatment and prevention of target organ damage. Padmavati S. **J Hum Hypertens** 1996 Feb;10 Suppl 1:S85–7 (10 ref.)

Radical trapping and inhibition of iron-dependent CNS damage by cyclic nitrone spin traps. Thomas CE, et al. **J Neurochem** 1997 Mar;68(3):1173–82

In vitro and in vivo protection against kainate-induced excitotoxicity by melatonin. Giusti P, et al. **J Pineal Res** 1996 May;20(4):226–31

Attenuation of rat ischemic brain damage by aged garlic extracts: a possible protecting mechanism as antioxidants. Numagami Y, et al. **Neurochem Int** 1996 Aug;29(2):135–43

The role of the polyamine inhibitor eflornithine in the neuropathogenesis of experimental murine African trypanosomiasis. Jennings FW, et al. **Neuropathol Appl Neurobiol** 1997 Jun;23(3):225–34

[Brain lesions in rabbits given an intravenous injection of verotoxin 2 and protection by anti-VT2 antibody] Fujii J, et al. **Nippon Rinsho** 1997 Mar;55(3):736–40 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Effects of MRI abnormalities on WAIS-R performance in solvent abusers. Yamanouchi N, et al. **Acta Neurol Scand** 1997 Jul;96(1):34–9

WAIS-R short-forms: criterion validity in healthy and clinical samples. Crawford JR, et al. **Br J Clin Psychol** 1996 Nov;35 (Pt 4):638–40

Startle reflex and emotion modulation impairment after a right amygdala lesion. Angrilli A, et al. **Brain** 1996 Dec; 119 (Pt 6):1991–2000

Intracerebral administration of Mycoplasma fermentans produces sickness behavior: role of prostaglandins. Yirmiya R, et al. **Brain Res** 1997 Feb 21;749(1):71–81

Visual discrimination and short-term memory for random patterns in patients with a focal cortical lesion. Greenlee MW, et al. **Cereb Cortex** 1997 Apr–May;7(3):253–67

Bizarre responses, rule detection and frontal lobe lesions. Burgess PW, et al. **Cortex** 1996 Jun;32(2):241–59

Hemispheric asymmetry in the recognition of emotional attitude conveyed by facial expression, prosody and propositional speech. Schmitt JJ, et al. **Cortex** 1997 Mar; 33(1):65–81

Caring for a child with a progressive illness during the complex chronic phase: parents' experience of facing adversity. Gravelle AM. **J Adv Nurs** 1997 Apr;25(4):738–45

Stepwise comparative status analysis (STEP): a tool for identification of regional brain syndromes in dementia [published erratum appears in J Geriatr Psychiatry Neurol 1997 Apr;10(2):90–1] Wallin A, et al. **J Geriatr Psychiatry Neurol** 1996 Oct;9(4):185–99

Cognitive deficits in non-Alzheimer's degenerative diseases. Pillon B, et al. **J Neural Transm Suppl** 1996;47:61–71 (63 ref.)

Corticobasal degeneration: neuropsychological and clinical correlates. Mimura M, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter;9(1):94–8

Cognitive effects of neonatal hippocampal lesions in a rat model of schizophrenia. Chambers RA, et al. **Neuropsychopharmacology** 1996 Dec;15(6):587–94

"It's a brain disease". Riffer NW. **Psychiatr Serv** 1997 Jun; 48(6):773–4

[Intellectual status of patents cerebral cysticercosis] Xie S, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jun;76(6):440–2 (Eng. Abstr.) **(Chi)**

[Contemporary neuropsychology and the return to individual cases] Laterre EC. **Acta Neurol Belg** 1996 Sep;96(3):238–9 **(Fre)**

[The disabled conscience] Assal G. **Rev Med Suisse Romande** 1996 Nov;116(11):943–7 **(Fre)**

[Parasitic delirium in patient with multiorganic pathology: a complex situation] Hernández-Albújar S, et al. **An Med Interna** 1996 Nov;13(11):549–51 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Cranial computed tomography in the emergency evaluation of adult patients without a recent history of head trauma: a prospective analysis [see comments] Rothrock SG, et al. **Acad Emerg Med** 1997 Jul;4(7):654–61. Comment in: Acad Emerg Med 1997 Jul;4(7):650–2.

Leucodystrophic CT changes in Wilson's disease. Basu S, et al. **J Assoc Physicians India** 1995 Jan;43(1):66

The impact of the accessibility of cranial CT scans on patient evaluation and management decisions. Marik PE, et al. **J Intern Med** 1997 Mar;241(3):237–43

Transfontanelle ultrasonography in infants: comparative study with cranial computed tomography. Alves JG, et al. **J Trop Pediatr** 1997 Jun;43(3):182–3

Dural caroticocavernous fistula with both ophthalmic arteries arising from middle meningeal arteries. Watanabe A, et al. **Neuroradiology** 1996 Nov;38(8):806–8

Intracranial fibromuscular dysplasia in a 5-year-old child. Chiu NC, et al. **Pediatr Neurol** 1996 Apr;14(3):262–4

CT scan abnormalities in a series of patients with hemorrhagic shock and encephalopathy syndrome. Jardine DS, et al. **Pediatr Radiol** 1997 Jun;27(6):540–4

[Long-term monitoring of therapy-induced computerized tomographic cranial changes in children with acute lymphoblastic leukemia] Michael C, et al. **Klin Padiatr** 1997 May–Jun;209(3):105–10 (Eng. Abstr.) **(Ger)**

[A study of referrals: what is the outcome of cranial computer tomography? Medical and economic benefits!] Nilsson J, et al. **Lakartidningen** 1996 Sep 25;93(39):3365–8 **(Swe)**

RADIONUCLIDE IMAGING

Brain perfusion SPECT in neuro-Behçet's disease: discordance between Tc-99m-HMPAO and Tc-99m-ECD. Shuke N, et al. **Ann Nucl Med** 1996 Aug; 10(3):353–6

The role of nuclear medicine in the investigation of patients with AIDS. Prvulovich EM, et al. **Br J Hosp Med** 1996 May 1–14;55(9):549–53 (19 ref.)

Statistical methods in the Fourier domain to enhance and classify images. Rio DE, et al. **Comput Biomed Res** 1996 Dec;29(6):438–65

The myocardium and brain SPECT findings in organophosphate poisoning. Ozyurt G, et al. **Eur J Emerg Med** 1997 Mar;4(1):29–31

Uptake of iodine-123-alpha-methyl tyrosine by gliomas and non-neoplastic brain lesions. Kuwert T, et al. **Eur J Nucl Med** 1996 Oct;23(10):1345–53

Brain glucose utilization in systemic lupus erythematosus with neuropsychiatric symptoms: a controlled positron emission tomography study. Otte A, et al. **Eur J Nucl Med** 1997 Jul;24(7):787–91

Indications for differential diagnosis of nontumor central nervous system diseases from tumors. A positron emission tomography study. Mineura K, et al. **J Neuroimaging** 1997 Jan;7(1):8–15

Brain SPECT in anterior opercular syndrome due to a unilateral lesion [letter] Kutluay E, et al. **J Neurol** 1996 May;243(5):427–9

PET study of cerebral glucose metabolism and fluorodopa uptake in patients with corticobasal degeneration. Nagasawa H, et al. **J Neurol Sci** 1996 Aug;139(2):210–7

Cerebral SPECT imaging: effect on clinical management [see comments] Bloom M, et al. **J Nucl Med** 1996 Jul; 37(7):1070–3. Comment in: J Nucl Med 1996 Jul;37(7):1073–4.

Frankly, my dear, I don't give a damn [editorial; comment] Henkin RE. **J Nucl Med** 1996 Jul;37(7):1073–4. Comment on: J Nucl Med 1996 Jul;37(7):1070–3.

Brain SPECT gets favorable review from neurology panel [news] Peter BM. **J Nucl Med** 1996 Jul;37(7):14N; 22N

Cerebral sparganosis: increased uptake of technetium-99m-HMPAO. You DL, et al. **J Nucl Med** 1997 Jun;38(6):939–41

Single photon emission computed tomography brain imaging. Mullan BP, et al. **Neurosurg Clin N Am** 1996 Oct; 7(4):617–51 (214 ref.)

Neuroradiologic applications of central nervous system SPECT. Berger JD, et al. **Radiographics** 1996 Jul; 16(4):777–85

[SPECT and PET in neurobiology] Paulson OB, et al. **Ugeskr Laeger** 1997 Apr 14;159(16):2351–5 **(Dan)**

[A functional diagnostic method by measuring of distribution volume of 123I-IMP with SPECT] Odano I, et al. **Kaku Igaku** 1996 Jun;33(6):579–86 (Eng. Abstr.) **(Jpn)**

[A limitation of the split-dose method for evaluating rCBF changes using 99mTc-ECD and SPECT] Odano I, et al. **Kaku Igaku** 1997 May;34(5):323–8 (Eng. Abstr.) **(Jpn)**

[A trial of the clinical use of the Testascan computerized gamma tomograph in neurosurgical pathology] Kalantarov KD, et al. **Med Tekh** 1996 Jan–Feb;(1):18–21 (Eng. Abstr.) **(Rus)**

RADIOTHERAPY

Registration in neurosurgery and neuroradiotherapy applications. Cuchet E, et al. **J Image Guid Surg** 1995; 1(4):198–207

REHABILITATION

Prescribed versus actual length of stay and inpatient neurorehabilitation outcome for brain dysfunctional patients. Prigatano GP, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):621–9

Development of a neurological rehabilitation environment: an observational study. Newall JT, et al. **Clin Rehabil** 1997 May;11(2):146–55

Outcomes-based research in neurorehabilitation: the need for multidisciplinary team involvement. Freeman JA, et al. **Disabil Rehabil** 1996 Feb;18(2):106–10

Neurological physiotherapy—a personal view [letter; comment] Maxwell B. **Physiother Res Int** 1997;2(2):62–4. Comment on: Physiother Res Int 1996;1(3):205–8. Comment on: Physiother Res Int 1996;1(4):265–8.

[Hemi-neglect syndrome. Clinical characteristics and reeducation management] Seniów J, et al. **Neurol Neurochir Pol** 1997 Jan–Feb;31(1):123–33 (18 ref.) (Eng. Abstr.) **(Pol)**

SURGERY

Hamartoma, a rare cause of a prepontine mass. Gaposchkin CG, et al. **Acta Neurochir (Wien)** 1997;139(1):90–1

Changes in serum cytokine concentrations after neurosurgical procedures. Osuka K, et al. **Acta Neurochir (Wien)** 1996; 138(8):970–6

Periventricular nodular heterotopia and intractable temporal lobe epilepsy: poor outcome after temporal lobe resection. Li LM, et al. **Ann Neurol** 1997 May;41(5):662–8

Image-directed neurosurgery. Kitchen ND. **Ann R Coll Surg Engl** 1997 Mar;79(2):148–53 (8 ref.)

Surgical treatment of refractory epilepsy associated with space occupying lesions. Experience and review. Brainer-Lima PT, et al. **Arq Neuropsiquiatr** 1996 Sep; 54(3):384–92 (54 ref.)

Primary intracranial extradural hydatid cyst extending above and below the tentorium. Beşkonakli E, et al. **Br J Neurosurg** 1996 Jun;10(3):315–6

Neurenteric cyst of anterior cranial fossa [letter; comment] Catala M, et al. **Br J Neurosurg** 1996 Oct;10(5):526–7. Comment on: Br J Neurosurg 1996 Apr;10(2):225–7.

Microsurgery with the Steiner-Lindquist stereotaxic guide. Mathiesen T, et al. **Br J Neurosurg** 1996 Apr;10(2):155–60

Pain after craniotomy. A time for reappraisal? Quiney N, et al. **Br J Neurosurg** 1996 Jun;10(3):295–9

Endoscopic treatment of an unusual multicystic lesion of the brainstem: case report [see comments] Schroeder HW, et al. **Br J Neurosurg** 1996 Apr;10(2):193–6. Comment in: Br J Neurosurg 1997 Feb;11(1):87–8.

Complications of endoscopic neurosurgery. Teo C, et al. **Childs Nerv Syst** 1996 May;12(5):248–53; discussion 253

Solitary Langerhans cell histiocytosis lesion of the parieto-occipital lobe: a case report and review of the literature. Bergmann M, et al. **Clin Neurol Neurosurg** 1997 Feb;99(1):50–5 (42 ref.)

Bilateral medial temporal lobe damage without amnesic syndrome: a case report. Henke K, et al. **Epilepsy Res** 1996 Jul;24(3):147–61

Surgical treatment of cerebral cysticercosis. Loyo-Varela M. **Eur Neurol** 1997;37(2):129–30

Acute intraoperative brain herniation during elective neurosurgery: pathophysiology and management considerations. Whittle IR, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):584–90

Primary Langerhans' cell histiocytosis of the central nervous system with fatal outcome. Case report. Vital A, et al. **J Neurosurg** 1996 Dec;85(6):1156–60 (47 ref.)

Selective extradural anterior clinoidectomy for supra- and parasellar processes. Technical note. Yonekawa Y, et al. **J Neurosurg** 1997 Oct;87(4):636–42

Intracranial epidermoid and dermoid cysts. Results of microneurosurgery. Bucciero A, et al. **Minerva Chir** 1997 Jun;52(6):863–6

Long-term follow-up after temporal lobe resection for lesions associated with chronic seizures [published erratum appears in Neurology 1997 Sep;49(3):904] Eliashiv SD, et al. **Neurology** 1997 Mar;48(3):621–6

Long-term follow-up after temporal lobe resection for lesions associated with chronic seizures [published erratum appears in Neurology 1997 Sep;49(3):904] Eliashiv SD, et al. **Neurology** 1997 May;48(5):1383–8

Epidermoid tumor of the interhemispheric fissure. Baykal S, et al. **Neurosurg Rev** 1997;20(1):63–6

Epidermoid cyst of the brain stem. Case report. Kuzeyli K, et al. **Neurosurg Rev** 1996;19(3):179–81

Cranioplasty with bone flaps preserved under the scalp. Paşaoğlu A, et al. **Neurosurg Rev** 1996;19(3):153–6

Huge colloid cyst of the third ventricle associated with calcification in the cyst wall. Yüceer N, et al. **Neurosurg Rev** 1996;19(2):131–3

Bovine pericardium for dural grafts: clinical results in 35 patients. Anson JA, et al. **Neurosurgery** 1996 Oct; 39(4):764–8

Validation study of a central venous pressure–based protocol for the management of neurosurgical patients with hyponatremia and natriuresis. Damaraju SC, et al. **Neurosurgery** 1997 Feb;40(2):312–6; discussion 316–7

Postoperative pain in neurosurgery: a pilot study in brain surgery. De Benedittis G, et al. **Neurosurgery** 1996 Mar; 38(3):466–9; discussion 469–70

Microsurgical excision of a pontomedullary epidermoid cyst with prepontine extension: case report. Malcolm GP, et al. **Neurosurgery** 1996 Mar;38(3):579–83; discussion 582–3 (21 ref.)

In vivo accuracy testing and clinical experience with the ISG Viewing Wand. Sipos EP, et al. **Neurosurgery** 1996 Jul;39(1):194–202; discussion 202–4

Effectiveness of antiepileptic prophylaxis used with supratentorial craniotomies: a meta–analysis. Kuijlen JM, et al. **Seizure** 1996 Dec;5(4):291–8

Philosophy of skull base surgery: a lecture by Dr. Madjid Samii Lima, Peru; July 2, 1995. Ausman JI. **Surg Neurol** 1997 Feb;47(2):154–5

Surgical treatment of epilepsy: the problem of lesion/focus incongruence. Clarke DB, et al. **Surg Neurol** 1996 Dec; 46(6):579–85; discussion 585–6

Cyst of the velum interpositum treated by endoscopic fenestration. Gangemi M, et al. **Surg Neurol** 1997 Feb; 47(2):134–6; discussion 136–7

Stereotactic transsylvian, transinsular approach for deep–seated lesions. Heffez DS. **Surg Neurol** 1997 Aug; 48(2):113–24 (16 ref.)

Acute brain swelling during removal of supratentorial cystic lesion caused by contralateral extradural hematoma: case report. Medina M, et al. **Surg Neurol** 1997 May; 47(5):428–31

Intracranial fungal granuloma. Sharma BS, et al. **Surg Neurol** 1997 May;47(5):489–97

Primary closure of contaminated scalp wound [letter] Chitkara N, et al. **Trop Doct** 1997 Oct;27(4):251–2

[Value of stereotaxy in neurosurgery. Indications and analysis of results of 71 cases] Ebel H, et al. **Nervenarzt** 1996 Aug; 67(8):650–8 (Eng. Abstr.) **(Ger)**

[Tumorous neurosarcoidosis––a rare manifestation of Boeck disease––3 cases and review of the literature] Probst–Cousin S, et al. **Zentralbl Neurochir** 1996; 57(1):37–43 (29 ref.) (Eng. Abstr.) **(Ger)**

[Transcranial ultrasonography in neurosurgery] Limoni P. **Clin Ter** 1996 Nov;147(11):559–66 (30 ref.) (Eng. Abstr.) **(Ita)**

[Choroidal epithelial cyst of the quadrigeminal plate] Maruiwa H, et al. **No Shinkei Geka** 1996 Dec;24(12):1113–7 (Eng. Abstr.) **(Jpn)**

[Neuroendoscopy: diagnosis and therapeutic uses] Jiménez–León JC. **Rev Neurol** 1997 Jun;25(142):941–5 (27 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

A flexible metal ventricular catheter for treatment of complicated and protracted infections of the cerebrospinal fluid spaces: preliminary experiences. Vieweg U, et al. **Acta Neurochir (Wien)** 1996;138(12):1431–6

Initial management of the patient with altered mental status. Ferrera PC, et al. **Am Fam Physician** 1997 Apr; 55(5):1773–80 (20 ref.)

Tracheostomy in a neuro–intensive care setting: indications and timing. Koh WY, et al. **Anaesth Intensive Care** 1997 Aug;25(4):365–8

Rhinocerebral mucormycosis: cure without surgery? [letter; comment] Anand A, et al. **Arch Intern Med** 1996 Oct 28; 156(19):2262, 2269. Comment on: Arch Intern Med 1996 Feb 12;156(3):337–9.

Too close for comfort? A family physician questions whether medical professionals should be excluded from their loved ones' care [see comments] Klein MC. **Can Med Assoc J** 1997 Jan 1;156(1):53–5. Comment in: Can Med Assoc J 1997 May 15;156(10):1377.

Disease, transplantation and regeneration. **Curr Opin Neurobiol** 1996 Oct;6(5):713–40

Is electrostimulation preferable to surgery for upper limb ataxia? Nguyen JP, et al. **Curr Opin Neurol** 1996 Dec; 9(6):445–50 (47 ref.)

How to manage patients with neurocysticercosis. Caplan LR. **Eur Neurol** 1997;37(2):124

Neuroectodermal grafting: a new tool for the study of neurodegenerative diseases. Isenmann S, et al. **Histol Histopathol** 1996 Oct;11(4):1063–73 (92 ref.)

Treatment strategies for neurodegenerative diseases based on trophic factors and cell transplantation techniques. Hoffer B, et al. **J Neural Transm Suppl** 1997;49:1–10 (31 ref.)

Transcranial magnetic stimulation: a neuropsychiatric tool for the 21st century. George MS, et al. **J Neuropsychiatry Clin Neurosci** 1996 Fall;8(4):373–82 (109 ref.)

Neuropsychiatric considerations in the use of electroconvulsive therapy. Krystal AD, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):283–92 (76 ref.)

Does electroconvulsive therapy (ECT) have any role in the management of intractable thalamic pain? McCance S, et al. **Pain** 1996 Nov;68(1):129–31

Immunotherapy for brain diseases and mental illnesses. Singh VK. **Prog Drug Res** 1997;48:129–46 (100 ref.)

Discrimination by any other name [editorial] [see comments] Rubenstein LS. **Psychiatr Serv** 1996 Jun;47(6):557. Comment in: Psychiatr Serv 1996 Sep;47(9):1002–3.

Treatment of brain cysticercosis. Sotelo J. **Surg Neurol** 1997 Aug;48(2):110–2 (34 ref.)

[A case of intracerebral tuberculoma resistant to therapy] Sasaki M, et al. **No Shinkei Geka** 1996 Sep;24(9):835–9 (Eng. Abstr.) **(Jpn)**

[Gene therapy and neurosurgery] Yoshida J. **No Shinkei Geka** 1997 Jun;25(6):495–502 (24 ref.) **(Jpn)**

ULTRASONOGRAPHY

Ultrasound of the neonatal brain. Ng VW, et al. **Br J Hosp Med** 1997 Jan 15–Feb 5;57(1–2):19–22 (24 ref.)

Duration of transient hyperechoic images of white matter in very–low–birthweight infants: a proposed classification. Dammann O, et al. **Dev Med Child Neurol** 1997 Jan; 39(1):2–5

Prenatal pseudocysts of the germinal matrix in preterm infants. Ramenghi LA, et al. **J Clin Ultrasound** 1997 May; 25(4):169–73

Transfontanelle ultrasonography in infants: comparative study with cranial computed tomography. Alves JG, et al. **J Trop Pediatr** 1997 Jun;43(3):182–3

Giant gliopendymal cyst resembling holoprosencephaly on prenatal ultrasound: case report and review of the literature. Pelkey TJ, et al. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):200–3 (34 ref.)

Differential diagnosis and outcome of fetal intracranial hypoechoic lesions: report of 21 cases. Pilu G, et al. **Ultrasound Obstet Gynecol** 1997 Apr;9(4):229–36

[Transcranial ultrasonography in neurosurgery] Limoni P. **Clin Ter** 1996 Nov;147(11):559–66 (30 ref.) (Eng. Abstr.) **(Ita)**

[Ultrasonography and neuropathological findings in premature infants] Hurum J, et al. **Tidsskr Nor Laegeforen** 1996 Nov 30;116(29):3470–3 (Eng. Abstr.) **(Nor)**

URINE

Neonatal encephalopathy with a pungent body odour. Walker V, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F65–6

VETERINARY

Experimental reproduction of hypoglycemia–spiking mortality syndrome in broiler chickens with the use of homogenized brains containing arenaviruslike particles. Davis JF, et al. **Avian Dis** 1997 Apr–Jun;41(2):442–6

The distribution of the metacercariae of Diplostomum phoxini in the brain of minnows, Phoxinus phoxinus. Barber I, et al. **Folia Parasitol (Praha)** 1997;44(1):19–25

Diagnostic evaluation of cats with seizure disorders: 30 cases (1991–1993). Quesnel AD, et al. **J Am Vet Med Assoc** 1997 Jan 1;210(1):65–71

Neuropathological studies of chickens infected with highly pathogenic avian influenza viruses. Kobayashi Y, et al. **J Comp Pathol** 1996 Feb;114(2):131–47

Cell culture isolation of piscine neuropathy nodavirus from juvenile sea bass, Dicentrarchus labrax. Frerichs GN, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2067–71

Baylisascaris larva migrans in a spider monkey (Ateles sp.). Garlick DS, et al. **J Med Primatol** 1996 Apr;25(2):133–6

Polyomavirus encephalopathy in a Ducorps' cockatoo (Cacatua ducorpsii) with psittacine beak and feather disease. Latimer KS, et al. **J Vet Diagn Invest** 1996 Jul; 8(3):291–5

Central nervous system neosporosis in a foal. Lindsay DS, et al. **J Vet Diagn Invest** 1996 Oct;8(4):507–10

Naturally occurring cerebral nematodiasis due to Baylisascaris larval migration in two black–and–white ruffed lemurs (Varecia variegata variegata) and suspected cases in three emus (Dromaius novaehollandiae). Campbell GA, et al. **J Zoo Wildl Med** 1997 Jun;28(2):204–7

Acute neurologic decompression illness in pigs: lesions of the spinal cord and brain. Dick EJ Jr, et al. **Lab Anim Sci** 1997 Feb;47(1):50–7

Recognition and localization of intracranial disease. Bagley RS. **Vet Clin North Am Small Anim Pract** 1996 Jul; 26(4):667–709 (76 ref.)

Pathophysiologic sequelae of intracranial disease. Bagley RS. **Vet Clin North Am Small Anim Pract** 1996 Jul;26(4):711–33 (105 ref.)

Degenerative brain disease. March PA. **Vet Clin North Am Small Anim Pract** 1996 Jul;26(4):945–71 (71 ref.)

Brain imaging. Tucker RL, et al. **Vet Clin North Am Small Anim Pract** 1996 Jul;26(4):735–58 (69 ref.)

FIV induced encephalopathy: early brain lesions in the absence of viral replication in monocyte/macrophages. A pathogenetic model. Silvotti L, et al. **Vet Immunol Immunopathol** 1997 Mar;55(4):263–71

Magnetic resonance imaging and computed tomography characteristics of intracranial intra–arachnoid cysts in 6 dogs. Vernau KM, et al. **Vet Radiol Ultrasound** 1997 May–Jun;38(3):171–6 (37 ref.)

Idiopathic brainstem neuronal chromatolysis in cattle: two case studies. Stewart WB. **Vet Rec** 1997 Mar 8; 140(10):260–1

Acute, unilateral transverse sinus occlusion during craniectomy in seven dogs with space–occupying intracranial disease. Bagley RS, et al. **Vet Surg** 1997 May–Jun;26(3):195–201

[Cerebral listeriosis in cattle: literature review and retrospective analysis of individual cases] Hirsbrunner G, et al. **Tierarztl Prax** 1997 Jul;25(4):336–43 (30 ref.) (Eng. Abstr.) **(Ger)**

VIROLOGY

Role of cytology in the intraoperative diagnosis of HIV–positive patients undergoing stereotactic brain biopsy. Cajulis RS, et al. **Acta Cytol** 1997 Mar–Apr;41(2):481–6

Haemorrhagic shock and encephalopathy associated with rotavirus infection [see comments] Makino M, et al. **Acta Paediatr** 1996 May;85(5):632–4. Comment in: Acta Paediatr 1996 May;85(5):535–6.

Neurotoxicity of intracerebral injection of a replication–defective adenoviral vector in a semipermissive species (cotton rat). Shine HD, et al. **Gene Ther** 1997 Apr; 4(4):275–9

No evidence for quasispecies populations during persistence of the coronavirus mouse hepatitis virus JHM: sequence conservation within the surface glycoprotein gene S in Lewis rats. Stühler A, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):747–56

Acute encephalopathy induced in cats with a stealth virus isolated from a patient with chronic fatigue syndrome. Martin WJ, et al. **Pathobiology** 1995;63(3):115–8

A transgenic mouse model for measles virus infection of the brain. Rall GF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4659–63

Hemorrhagic manifestations and encephalopathy in cases of dengue in India. Thakare J, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):471–5

Activation of type III nitric oxide synthase in astrocytes following a neurotropic viral infection. Barna M, et al. **Virology** 1996 Sep 15;223(2):331–43

Unique sequence and lesional tropism of a new variant of neuropathogenic friend murine leukemia virus. Takase–Yoden S, et al. **Virology** 1997 Jul 7;233(2):411–22

BRAIN DISEASES, METABOLIC

COMPLICATIONS

Hyponatraemia secondary to cerebral salt wasting syndrome following routine pituitary surgery. Atkin SL, et al. **Eur J Endocrinol** 1996 Aug;135(2):245–7

DIAGNOSIS

MR and proton MR spectroscopy of the brain in hyperhomocysteinemia caused by methylenetetrahydrofolate reductase deficiency. Engelbrecht V, et al. **AJNR Am J Neuroradiol** 1997 Mar; 18(3):536–9

Chorea–ballismus with nonketotic hyperglycemia in primary diabetes mellitus. Lai PH, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1057–64

Cerebral MR manifestations of Pompe disease in an infant. Lee CC, et al. **AJNR Am J Neuroradiol** 1996 Feb; 17(2):321–2

Epidemiology, pathophysiology, and management of hyponatremic encephalopathy. Fraser CL, et al. **Am J Med** 1997 Jan;102(1):67–77 (62 ref.)

Whipple's disease and the central nervous system. A case report and a review of the literature. Verhagen WI, et al. **Clin Neurol Neurosurg** 1996 Nov;98(4):299–304 (57 ref.)

Increased cerebral glycogen detected by localized 1H–magnetic resonance spectroscopy in a patient with suspected McArdle's disease. Salvan AM, et al. **Eur Neurol** 1997;37(4):251–3

Localized proton magnetic resonance spectroscopy of cerebral metabolic disturbances in children with neuronal ceroid lipofuscinosis. Brockmann K, et al. **Neuropediatrics** 1996 Oct;27(5):242–8

Localized proton magnetic resonance spectroscopy of cerebral metabolites. Frahm J, et al. **Neuropediatrics** 1996 Apr;27(2):64–9 (30 ref.)

[Pseudo–stroke: current views] Shirokov EA. **Klin Med (Mosk)** 1997;75(6):13–5 (16 ref.) **(Rus)**

DIET THERAPY

[Internal medicine aspects and characteristics of nutrition in patients with cerebral cognitive deficits] Rameis H. **Wien Med Wochenschr** 1996;146(21–22):549–55 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Congenital fumarase deficiency presenting with hypotonia and areflexia. Narayanan V, et al. **J Child Neurol** 1996 May; 11(3):252–5

ETIOLOGY

Early recognition of metabolic decompensation. Morris AA, et al. **Arch Dis Child** 1997 Jun;76(6):555–6 (3 ref.)

BRAIN DISEASES, METABOLIC

Hyperammonemic encephalopathy in a four-year-old child with prune belly syndrome. Das A, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):922-3, 925-6

[Uremic encephalopathy, uremic coma] Maeda K. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):66-8 (13 ref.) **(Jpn)**

GENETICS

CT and MR appearance of the brain in two children with molybdenum cofactor deficiency. Appignani BA, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):317-20

Proton MR spectroscopy of childhood adrenoleukodystrophy. Rajanayagam V, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1013-24

Metabolic disorders and neurotoxicology. **Curr Opin Neurol** 1996 Dec;9(6):B149-58

Clinical course, early diagnosis, treatment, and prevention of disease in glutaryl-CoA dehydrogenase deficiency [see comments] Hoffmann GF, et al. **Neuropediatrics** 1996 Jun; 27(3):115-23. Comment in: Neuropediatrics 1996 Dec;27(6):335-6.

Prognostic clues and outcome of early treatment of nonketotic hyperglycinemia. Boneh A, et al. **Pediatr Neurol** 1996 Sep;15(2):137-41

Arrested cerebral adrenoleukodystrophy: a clinical and proton magnetic resonance spectroscopy study in three patients. Korenke GC, et al. **Pediatr Neurol** 1996 Sep; 15(2):103-7

[New aspects in diagnosis and therapy of hereditary diseases of the nervous and skeletal systems (editorial)] Plecko B, et al. **Wien Klin Wochenschr** 1997 Feb 14;109(3):65-7 **(Ger)**

METABOLISM

Early cerebral-metabolite quantification in perinatal hypoxic-ischaemic encephalopathy by proton and phosphorus magnetic resonance spectroscopy. Cady EB, et al. **Magn Reson Imaging** 1997;15(5):605-11

PHYSIOPATHOLOGY

VEP and ERP abnormalities in children and adolescents with prepubertal onset of insulin-dependent diabetes mellitus. Uberall MA, et al. **Neuropediatrics** 1996 Apr;27(2):88-93

RADIOGRAPHY

[Etiologic diagnosis with CT in syncope of uncertain origin. Fabry disease (Andersen-Fabry disease)] Roth AC. **Radiologe** 1996 Aug;36(8):667-9 **(Ger)**

THERAPY

Epidemiology, pathophysiology, and management of hyponatremic encephalopathy. Fraser CL, et al. **Am J Med** 1997 Jan;102(1):67-77 (62 ref.)

Metabolic encephalopathies. Chen R, et al. **Baillieres Clin Neurol** 1996 Oct;5(3):577-98 (64 ref.)

ULTRASONOGRAPHY

Neurosonographic findings in high risk neonates with hypoglycemia. Shen EY. **Acta Paediatr Sin** 1996 Jul-Aug; 37(4):248-52

Cranial ultrasonography in maple syrup urine disease. Fariello G, et al. **AJNR Am J Neuroradiol** 1996 Feb; 17(2):311-5

VETERINARY

Metabolic encephalopathies. Cuddon PA. **Vet Clin North Am Small Anim Pract** 1996 Jul; 26(4):893-923 (111 ref.)

BRAIN DYSFUNCTION, MINIMAL see **ATTENTION DEFICIT DISORDER WITH HYPERACTIVITY**

BRAIN EDEMA

Acute swelling of the cerebellum on childhood. Hukin J, et al. **J Child Neurol** 1997 Jun;12(4):273-5

Brain edema and hepatic encephalopathy. Cordoba J, et al. **Semin Liver Dis** 1996 Aug;16(3):271-80 (94 ref.)

Astrocytic-ammonia interactions in hepatic encephalopathy. Norenberg MD. **Semin Liver Dis** 1996 Aug;16(3):245-53 (165 ref.)

BLOOD

The role of the coagulation cascade in brain edema formation after intracerebral hemorrhage. Lee KR, et al. **Acta Neurochir (Wien)** 1996;138(4):396-400; discussion 400-1

Pentobarbital and venous oxygenation [letter; comment] Lam AM, et al. **J Neurosurg** 1997 Jun;86(6):1070-2. Comment on: J Neurosurg 1996 Nov;85(5):758-61.

CHEMICALLY INDUCED

Intravascular absorption of glycine irrigating solution during shoulder arthroscopy: a case report and follow-up study. Ichai C, et al. **Anesthesiology** 1996 Dec;85(6):1481-5

Intracarotid histamine administration results in dose-dependent vasogenic brain oedema formation in new-born pigs. Németh L, et al. **Inflamm Res** 1997 Mar; 46 Suppl 1:S45-6

Fatal sodium valproate poisoning [letter] Berthelot-Moritz F, et al. **Intensive Care Med** 1997 May;23(5):599

Edema, thrombin, and dexamethasone [letter; comment] Abdou S. **J Neurosurg** 1997 Mar;86(3):575. Comment on: J Neurosurg 1996 Aug;85(2):335-9.

Thrombin-soaked gelatin sponge and brain edema in rats [see comments] Colon GP, et al. **J Neurosurg** 1996 Aug; 85(2):335-9. Comment in: J Neurosurg 1997 Mar;86(3):575.

Brain capillary lesions produced by cocaine in rats. Barroso-Moguel R, et al. **Toxicol Lett** 1997 Jun 16; 92(1):9-14

COMPLICATIONS

Factors predicting cerebral edema in young children with diabetic ketoacidosis and new onset type I diabetes. Hale PM, et al. **Acta Paediatr** 1997 Jun;86(6):626-31

Typhoid fever complicated by cerebral edema [letter; comment] Lal V, et al. **Clin Infect Dis** 1996 Jul;23(1):210 . Comment on: Clin Infect Dis 1995 Oct;21(4):1057-8.

Parietal occipital edema in hypertensive encephalopathy: a pathogenic mechanism. Sheth RD, et al. **Eur Neurol** 1996; 36(1):25-8

Correlation of vascular endothelial growth factor messenger RNA expression with peritumoral vasogenic cerebral edema in meningiomas. Kalkanis SN, et al. **J Neurosurg** 1996 Dec;85(6):1095-101

Bilateral superior ophthalmic vein enlargement associated with diffuse cerebral swelling. Report of 11 cases. Khanna RK, et al. **J Neurosurg** 1997 May;86(5):893-7

Perinatal pathology casebook. Gutierrez JA, et al. **J Perinatol** 1996 Jan-Feb;16(1):77-8

Symptomatic subacute subdural hematoma associated with cerebral hemispheric swelling and ischemia. Aoki N, et al. **Neurol Res** 1996 Apr;18(2):145-9

DIAGNOSIS

Measure of magnetization transfer in multiple sclerosis demyelinating plaques, white matter ischemic lesions, and edema. Mehta RC, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1051-5

Early changes in peritumorous oedema and contralateral white matter after dexamethasone: a study using proton magnetic resonance spectroscopy. Chumas P, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):590-5

Magnetic resonance imaging of cold injury-induced brain edema in rats. Houkin K, et al. **Neurol Med Chir (Tokyo)** 1996 Feb;36(2):72-7

A case of meningioma with exceptionally extensive oedema. Bradac GB, et al. **Neuroradiology** 1997 Apr;39(4):273-5

MR diffusion imaging of human intracranial tumours. Krabbe K, et al. **Neuroradiology** 1997 Jul;39(7):483-9

MRI of high-grade glial tumors: correlation between the degree of contrast enhancement and the volume of surrounding edema. Pronin IN, et al. **Neuroradiology** 1997 May;39(5):348-50

Diffusion-weighted imaging discriminates between cytotoxic and vasogenic edema in a patient with eclampsia. Schaefer PW, et al. **Stroke** 1997 May;28(5):1082-5

[Acute reversible encephalopathy with brain edema and serial seizures in pseudohypoparathyroidism] Oechsner M, et al. **Nervenarzt** 1996 Oct;67(10):875-9 (Eng. Abstr.) **(Ger)**

[Emergency assessment in the hospital: the ability of early diagnostic tests to predict short-term prognosis, progression of infarct, hemorrhagic conversion and cerebral edema] Dávalos Errando A. **Neurologia** 1995 Dec; 10 Suppl 2:8-15 (78 ref.) (Eng. Abstr.) **(Spa)**

[The characteristics of the clinical manifestations of brain edema and swelling in bacterial meningoencephalitis] Iarosh O. **Lik Sprava** 1995 Mar-Apr;(3-4):104-7 (Eng. Abstr.) **(Ukr)**

[The characteristics of the neurophysiological diagnosis and the main directions in the differentiated therapy of brain edema and swelling in patients who are in a critical state] Novikova RI, et al. **Lik Sprava** 1996 Jan-Feb;(1-2):87-91 (Eng. Abstr.) **(Ukr)**

DRUG THERAPY

Dihydroergotamine in the treatment of head injury--risk of gangrene and renal failure [letter; comment] Grände PO, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1255-7. Comment on: Acta Anaesthesiol Scand 1996 Mar;40(3):389-91.

Early aneurysm surgery and dehydration therapy in patients with severe subarachnoid haemorrhage without ICH. Oda S, et al. **Acta Neurochir (Wien)** 1996;138(9):1050-6

The effect of intraventricular albumin in experimental brain oedema. Onal C, et al. **Acta Neurochir (Wien)** 1997; 139(7):661-8; discussion 668-9

GABAA-receptor-mediated effects of progesterone, its ring-A-reduced metabolites and synthetic neuroactive steroids on neurogenic oedema in the rat meninges. Limmroth V, et al. **Br J Pharmacol** 1996 Jan;117(1):99-104

Reduction of traumatic brain injury-induced cerebral oedema by a free radical scavenger. Petty MA, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):149-55

The effect of mannitol on intracranial pressure in relation to serum osmolality in a cat model of cerebral edema. Silver P, et al. **Intensive Care Med** 1996 May;22(5):434-8

Effect of delayed albumin hemodilution on infarction volume and brain edema after transient middle cerebral artery occlusion in rats. Belayev L, et al. **J Neurosurg** 1997 Oct; 87(4):595-601

Arginine vasopressin receptor antagonists for treatment of vasogenic brain edema: an experimental study. Kagawa M, et al. **J Neurotrauma** 1996 May;13(5):273-9

The effect of dietary alpha-tocopherol on the experimental vasogenic brain edema. Stoffel M, et al. **J Neurotrauma** 1997 May;14(5):339-48

Cerebroprotective effects of a novel pyrazoline derivative, MS-153, on focal ischemia in rats. Kawazura H, et al. **Jpn J Pharmacol** 1997 Apr;73(4):317-24

Metalloproteinase inhibition blocks edema in intracerebral hemorrhage in the rat. Rosenberg GA, et al. **Neurology** 1997 Apr;48(4):921-6

Amelioration of brain edema by topical application of glial cell line-derived neurotrophic factor in reperfused rat brain. Abe K, et al. **Neurosci Lett** 1997 Aug 1;231(1):37-40

ONO-1603, a potential antidementia drug, shows neuroprotective effects and increases m3-muscarinic receptor mRNA levels in differentiating rat cerebellar granule neurons. Katsube N, et al. **Neurosci Lett** 1996 Aug 23;214(2-3):151-4

Effect of a chemical delivery system for dexamethasone (Dex-CDS) on peritumoral edema in an experimental brain tumor model. Siegal T, et al. **Pharm Res** 1997 May; 14(5):672-5

Multiple-dose mannitol reduces brain water content in a rat model of cortical infarction. Paczynski RP, et al. **Stroke** 1997 Jul;28(7):1437-43; discussion 1444

[Effect of thyrotropin-releasing hormone analogue (YM14673) on experimental brain contusion and edema in rats] Zhang JJ, et al. **Yao Hsueh Hsueh Pao** 1996; 31(4):250-3 (Eng. Abstr.) **(Chi)**

[Mannitol poisoning: anuria caused by a diuretic] Halma C. **Ned Tijdschr Geneeskd** 1996 Sep 7;140(36):1822-4 (Eng. Abstr.) **(Dut)**

[Epidural cerebrospinal fluid pressure measurement and therapy of intracranial hypertension in "malignant" middle cerebral artery infarct] Schwab S, et al. **Nervenarzt** 1996 Aug;67(8):659-66 (Eng. Abstr.) **(Ger)**

[Anti-edema effect of "poliosm" preparation in brain ischemia] Plotnikova MB, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):410-2 **(Rus)**

[The anti-edematous effect of the preparation polyosm in acute hypertensive encephalopathy] Plotnikov MB, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):72-4 (Eng. Abstr.) **(Rus)**

[Treatment of neurological complications: cerebral edema and epileptic seizures] Vivancos Mora J. **Neurologia** 1995 Dec;10 Suppl 2:23-9 (67 ref.) (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Reduced brain edema and infarction volume in mice lacking the neuronal isoform of nitric oxide synthase after transient MCA occlusion. Hara H, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):605-11

ETIOLOGY

Factors predicting cerebral edema in young children with diabetic ketoacidosis and new onset type I diabetes. Hale PM, et al. **Acta Paediatr** 1997 Jun;86(6):626-31

Brain edema, hemorrhagic necrosis volume, and neurological status with rapid infusion of 0.45% saline or 5% dextrose in 0.9% saline after closed head trauma in rats. Gurevich B, et al. **Anesth Analg** 1997 Mar;84(3):554-9

Cerebral ischemia and white matter edema in experimental hydrocephalus: a combined in vivo MRI and MRS study. Braun KP, et al. **Brain Res** 1997 May 23;757(2):295-8

Reversible corpus callosum lesions in a patient with Marchiafava-Bignami disease: serial changes on MRI. Yamashita K, et al. **Eur Neurol** 1997;37(3):192-3

Hepatic encephalopathy and brain edema in acute hepatic failure: does glutamate play a role? [editorial; comment] Butterworth RF. **Hepatology** 1997 Apr;25(4):1032-4 (27 ref.). Comment on: Hepatology 1997 Apr;25(4):820-7.

Regional cerebral edema and chloride space in galactosamine-induced liver failure in rats. Gove CD, et al. **Hepatology** 1997 Feb;25(2):295-301

Fatal hyponatraemic brain oedema due to common gastroenteritis with accidental water intoxication. Sjøblom E, et al. **Intensive Care Med** 1997 Mar;23(3):348-50

Cerebral edema after rapid dialysis is not caused by an increase in brain organic osmolytes. Silver SM. **J Am Soc Nephrol** 1995 Dec;6(6):1600-6

Hypertensive encephalopathy and sympathetic innervation of the cerebral circulation: a comment [letter; comment] Sheth RD, et al. **J Child Neurol** 1996 Jul;11(4):347. Comment on: J Child Neurol 1995 May;10(3):236-9.

Dilutional hyponatraemia: a cause of massive fatal intraoperative cerebral oedema in a child undergoing renal transplantation. Armour A. **J Clin Pathol** 1997 May; 50(5):444-6

The importance of pial blood supply to the development of peritumoral brain edema in meningiomas. Bitzer M, et al. **J Neurosurg** 1997 Sep;87(3):368-73

Mechanisms of edema formation after intracerebral hemorrhage: effects of thrombin on cerebral blood flow, blood-brain barrier permeability, and cell survival in a rat model. Lee KR, et al. **J Neurosurg** 1997 Feb;86(2):272-8

Physiologic principles for volume regulation of a tissue enclosed in a rigid shell with application to the injured

brain. Grände PO, et al. **J Trauma** 1997 May;42(5 Suppl):S23–31 (34 ref.)

Pathogenesis of cerebral edema after treatment of diabetic ketoacidosis [published erratum appears in Kidney Int 1997 May;51(5):1662] Silver SM, et al. **Kidney Int** 1997 Apr; 51(4):1237–44

Brain edema: pathogenesis and therapy. Schilling L, et al. **Kidney Int Suppl** 1997 Jun;59:S69–75 (145 ref.)

Raised intracranial pressure in chronic respiratory disease [letter; comment] Brockmeier B, et al. **Lancet** 1997 Mar 22;349(9055):883. Comment on: Lancet 1997 Jan 11;349(9045):98.

Metalloproteinase inhibition blocks edema in intracerebral hemorrhage in the rat. Rosenberg GA, et al. **Neurology** 1997 Apr;48(4):921–6

Hydrocephalus requiring urgent external ventricular drainage in a patient with diabetic ketoacidosis and cerebral edema: case report. Eskandar EN, et al. **Neurosurgery** 1997 Apr; 40(4):836–8; discussion 838–9

Control of vasogenic edema in a brain tumor model: comparison between dexamethasone and superoxide dismutase. Shoshan Y, et al. **Neurosurgery** 1996 Dec; 39(6):1206–13; discussion 1213–4

Brief repeated umbilical cord occlusions cause sustained cytotoxic cerebral edema and focal infarcts in near-term fetal lambs. De Haan HH, et al. **Pediatr Res** 1997 Jan; 41(1):96–104

Postoperative cerebral edema occurring in children with slit ventricles. Eldredge EA, et al. **Pediatrics** 1997 Apr; 99(4):625–30

Pathogenesis of brain edema in fulminant hepatic failure. Blei AT. **Prog Liver Dis** 1995;13:311–30 (103 ref.)

Intracranial meningiomas: factors that influence the development of cerebral edema after stereotactic radiosurgery and radiation therapy. Kalapurakal JA, et al. **Radiology** 1997 Aug;204(2):461–5

Radiation-induced edema after Gamma Knife treatment for meningiomas. Ganz JC, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:129–33

Gamma Knife radiosurgery for meningiomas: four cases of radiation-induced edema. Nakamura S, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:142–5

Acute brain swelling during removal of supratentorial cystic lesion caused by contralateral extradural hematoma: case report. Medina M, et al. **Surg Neurol** 1997 May; 47(5):428–31

[Acute brain expansion during emergency neck clipping surgery for cerebral aneurysms in a patient with dilated cardiomyopathy] Nakao M, et al. **Masui** 1996 Jun; 45(6):725–30 (Eng. Abstr.) **(Jpn)**

[Distinctions of petroclival meningioma with perifocal edema on adjacent brain stem] Uede T, et al. **No Shinkei Geka** 1996 Sep;24(9):841–7 (Eng. Abstr.) **(Jpn)**

[Treatment of neurological complications: cerebral edema and epileptic seizures] Vivancos Mora J. **Neurologia** 1995 Dec;10 Suppl 2:23–9 (67 ref.) (Eng. Abstr.) **(Spa)**

[Reversible leukoencephalopathy related to cyclosporin treatment] Grivé E, et al. **Rev Neurol** 1997 Mar; 25(139):471–3 (Eng. Abstr.) **(Spa)**

GENETICS

Correlation of vascular endothelial growth factor messenger RNA expression with peritumoral vasogenic cerebral edema in meningiomas. Kalkanis SN, et al. **J Neurosurg** 1996 Dec;85(6):1095–101

Progressive encephalopathy with edema, hypsarrhythmia, and optic atrophy (PEHO syndrome). Shevell MI, et al. **Pediatr Neurol** 1996 Nov;15(4):337–9

HISTORY

In celebrating the 158th anniversary of lacuna cerebri [letter] Ma KC. **Rev Neurol (Paris)** 1996 Oct;152(10):646–9

METABOLISM

MRI measurements of water diffusion and cerebral perfusion: their relationship in a rat model of focal cerebral ischemia. Pierce AR, et al. **J Cereb Blood Flow Metab** 1997 Feb; 17(2):183–90

Osmotic swelling stimulates ascorbate efflux from cerebral astrocytes. Siushansian R, et al. **J Neurochem** 1996 Mar; 66(3):1227–33

Relation of taurine transport and brain edema in rats with simple hyperammonemia or liver failure. Hilgier W, et al. **J Neurosci Res** 1996 Jul 1;45(1):69–74

Photodynamic therapy within edematous brain tissue: considerations on sensitizer dose and time point of laser irradiation. Stummer W, et al. **J Photochem Photobiol B** 1996 Nov;36(2):179–81

Biexponential diffusion attenuation in various states of brain tissue: implications for diffusion-weighted imaging. Niendorf T, et al. **Magn Reson Med** 1996 Dec;36(6):847–57

PATHOLOGY

Dexamethasone and colchicine reduce inflammation and delayed oedema following experimental brain contusion. Holmin S, et al. **Acta Neurochir (Wien)** 1996;138(4):418–24

Post-traumatic bilateral diffuse cerebral swelling. Kazan S, et al. **Acta Neurochir (Wien)** 1997;139(4):295–301; discussion 301–2

Light and electron microscope study of nerve cells in traumatic oedematous human cerebral cortex. Castejón OJ, et al. **Brain Inj** 1997 May;11(5):363–88

Addison's disease presenting with cerebral edema. Geenen C, et al. **Can J Neurol Sci** 1996 May;23(2):141–4

Increased immunoreactivities for the basic fibroblast growth factor and its receptor in astrocytes at the site of cerebral lesions and oedematous change in SHR. Kataoka H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S262–4

Phenytoin-induced cerebral thrombosis in rats: cerebral ultrastructure, water content and ischaemic volume in the acute phase. Iwasaki H, et al. **Int J Exp Pathol** 1996 Oct; 77(5):229–36

Reduced brain edema and infarction volume in mice lacking the neuronal isoform of nitric oxide synthase after transient MCA occlusion. Hara H, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):605–11

Effect of dexamethasone, barbiturate and hypothermy on edema induced by CO2 laser brain lesion in the dog: light and electron microscopic study. Göçer AI, et al. **Neurosurg Rev** 1996;19(1):33–8

Protective effects of ifenprodil on ischemic injury size, blood-brain barrier breakdown, and edema formation in focal cerebral ischemia. Başkaya MK, et al. **Neurosurgery** 1997 Feb;40(2):364–70; discussion 370–1

Brain edema in meningiomas is associated with increased vascular endothelial growth factor expression. Goldman CK, et al. **Neurosurgery** 1997 Jun;40(6):1269–77

Meningiomas: role of vascular endothelial growth factor/vascular permeability factor in angiogenesis and peritumoral edema. Provias J, et al. **Neurosurgery** 1997 May;40(5):1016–26

Pericytosis and edema generation: a unique clinicopathological variant of meningioma. Robinson JC, et al. **Neurosurgery** 1996 Oct;39(4):700–6; discussion 706–7

Spreading of vasogenic edema and cytotoxic edema assessed by quantitative diffusion and T2 magnetic resonance imaging. Loubinoux I, et al. **Stroke** 1997 Feb;28(2):419–26; discussion 426–7

PHYSIOPATHOLOGY

Blood-brain barrier water permeability and brain osmolyte content during edema development [see comments] Olson JE, et al. **Acad Emerg Med** 1997 Jul;4(7):662–73. Comment in: Acad Emerg Med 1997 Jul;4(7):652–3.

Swelling, intracellular acidosis, and damage of glial cells. Staub F, et al. **Acta Neurochir Suppl (Wien)** 1996;66:56–62

In vivo estimation of water content in cerebral white matter of brain tumour patients and normal individuals: towards a quantitative brain oedema definition. Andersen C. **Acta Neurochir (Wien)** 1997;139(3):249–55; discussion 255–6

Efflux of gamma-aminobutyric acid caused by changes in ion concentrations and cell swelling simulating the effect of cerebral ischaemia. Haugstad TS, et al. **Acta Neurochir (Wien)** 1997;139(5):453–63

Changes in intracranial pressure associated with apneumic retractors [letter; comment] Shapira Y, et al. **Arch Surg** 1996 Oct;131(10):1116. Comment on: Arch Surg 1995 Apr;130(4):362–5; discussion 365–6.

Frequency source analysis in patients with brain lesions. Harmony T, et al. **Brain Topogr** 1995 Winter;8(2):109–17

Evolution of cerebral edema and its relationship with power in the theta band. Fernández-Bouzas A, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 102(4):279–85

Parietal occipital edema in hypertensive encephalopathy: a pathogenic mechanism. Sheth RD, et al. **Eur Neurol** 1996; 36(1):25–8

Duration threshold of induced hypertension on cerebral blood flow, energy metabolism, and edema after transient forebrain ischemia in gerbils. Hosomi N, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1224–9

Monitoring cellular edema at single-neuron level by electrical resistance measurements. Demirci M, et al. **J Neurosci Methods** 1997 Apr 4;72(2):175–81

Adverse effects of pentobarbital on cerebral venous oxygenation of comatose patients with acute traumatic brain swelling: relationship to outcome [see comments] Cruz J. **J Neurosurg** 1996 Nov;85(5):758–61. Comment in: J Neurosurg 1997 Jun;86(6):1070–2.

The influence of acute and chronic alcohol treatment on brain edema, cerebral infarct volume and neurological outcome following experimental head trauma in rats. Shapira Y, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):118–27

Effects of the novel NMDA antagonists CP-98,113, CP-101,581 and CP-101,606 on cognitive function and regional cerebral edema following experimental brain injury in the rat. Okiyama K, et al. **J Neurotrauma** 1997 Apr;14(4):211–22

Microvascular perfusion during focal vasogenic brain edema: a scanning laser fluorescence microscopy study. Lindsberg PJ, et al. **Microvasc Res** 1997 Jan;53(1):92–103

Secretory meningioma with severe perifocal edema--case report. Tsuzuki N, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):620–3

Contribution of cerebrovascular parasympathetic and sensory innervation to the development of cerebral edema in rat focal ischemia and reperfusion. Umemura A, et al. **Neurosci Lett** 1996 Sep 6;215(2):134–6

[Significance of apoptosis-induced fas antigen-fas ligand system for post-traumatic brain edema] Keel M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:481–3 (Eng. Abstr.) **(Ger)**

[Involvement of the central nervous system in hemolytic uremic syndrome/thrombotic thrombocytopenic purpura] Ohlmann D, et al. **Nervenarzt** 1996 Oct;67(10):880–2 (Eng. Abstr.) **(Ger)**

[Physiology and pathophysiology of intracranial pressure] Baethmann A, et al. **Zentralbl Neurochir** 1997;58(1):29–31 **(Ger)**

[Pathophysiology of brain edema] Baethmann A, et al. **Zentralbl Neurochir** 1997;58(1):20–9 (59 ref.) **(Ger)**

[Intra-clinic transport of patients with increased intracranial pressure] Engelhardt W. **Zentralbl Neurochir** 1997; 58(1):50–1 **(Ger)**

[Monitoring cerebral perfusion pressure] Jantzen JP. **Zentralbl Neurochir** 1997;58(1):32–5 (31 ref.) **(Ger)**

[Monitoring cerebral oxygenation in increased intracranial pressure] Unterberg A. **Zentralbl Neurochir** 1997;58(1):47–9 (24 ref.) **(Ger)**

PREVENTION & CONTROL

Chemistry of indoles carrying a basic function, Part 3. Synthesis of spiro[cyclopropane-1,3'[3H]indol]-2'(1'H)-ones with antihypoxic effects. Moldvai I, et al. **Arch Pharm (Weinheim)** 1996 Dec;329(12):541–9

Dextrorphan reduces infarct volume, vascular injury, and brain edema after ischemic brain injury. Du C, et al. **J Neurotrauma** 1996 Apr;13(4):215–22

The kappa opioid agonist niravoline decreases brain edema in the mouse middle cerebral artery occlusion model of stroke. Guéniau C, et al. **J Pharmacol Exp Ther** 1997 Jul; 282(1):1–6

Prevention of cerebral edema and infarct in cerebral reperfusion injury by an antibody to interleukin-8. Matsumoto T, et al. **Lab Invest** 1997 Aug;77(2):119–25

Intraseptal injections of NGF attenuates edema formation following septal lesions in the rat. Janis LS, et al. **Neurosci Lett** 1996 Aug 16;214(1):21–4

Effects of the 21-amino steroid tirilazad mesylate (U-74006F) on brain damage and edema after perinatal hypoxia-ischemia in the rat. Bågenholm R, et al. **Pediatr Res** 1996 Sep;40(3):399–403

Neuroprotection with NBQX in rat focal cerebral ischemia. Effects on ADC probability distribution functions and diffusion-perfusion relationships. Lo EH, et al. **Stroke** 1997 Feb;28(2):439–46; discussion 446–7

Zinc protoporphyrin, zinc ion, and protoporphyrin reduce focal cerebral ischemia. Zhao YJ, et al. **Stroke** 1996 Dec; 27(12):2299–303

[Effect of adrenocorticotropic hormone fragments and atriopeptides on the development of toxic brain edema-swelling] Platonov IA, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):521–3 **(Rus)**

[The effect of benzodiazepine derivatives on the formation of brain edema-swelling in the dynamics of the posttraumatic period] Novikov VE. **Eksp Klin Farmakol** 1996 May-Jun;59(3):61–3 (Eng. Abstr.) **(Rus)**

[Study of the protective effects of phenothiazine derivatives on a stochastic model of brain compression edema-swelling] Platonov IA. **Patol Fiziol Eksp Ter** 1997 Jan-Mar;(1):12–5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Brain oedema in patients with intracranial meningioma. Correlation between clinical, radiological, and histological factors and the presence and intensity of oedema. Lobato RD, et al. **Acta Neurochir (Wien)** 1996;138(5):485–93; discussion 493–4

Brain edema after carotid endarterectomy [letter; comment] van Harten B, et al. **Neurology** 1997 Feb;48(2):544–5. Comment on: Neurology 1996 Jan;46(1):175–81.

SURGERY

A prospective comparison of fibre-optic and fluid-filled single lumen bolt subdural pressure transducers in ventilated neurosurgical patients. Bavetta S, et al. **Br J Neurosurg** 1996 Jun;10(3):279–84

Craniectomy: an aggressive treatment approach in severe encephalitis. Schwab S, et al. **Neurology** 1997 Feb; 48(2):412–7

Cranioplasty with bone flaps preserved under the scalp. Paşaoğlu A, et al. **Neurosurg Rev** 1996;19(3):153–6

One-year outcome after decompressive surgery for massive nondominant hemispheric infarction. Carter BS, et al. **Neurosurgery** 1997 Jun;40(6):1168–75; discussion 1175–6

Decompressive bifrontal craniectomy in the treatment of severe refractory posttraumatic cerebral edema. Polin RS, et al. **Neurosurgery** 1997 Jul;41(1):84–92; discussion 92–4

Decompressive craniotomy for acute shaken/impact baby syndrome. Cho DY, et al. **Pediatr Neurosurg** 1995; 23(4):192–8

THERAPY

Effect of hypothermia, dichloroacetate, and deferoxamine in the treatment for cortical edema and functional recovery after experimental cortical impact in the rat. Heegaard W, et al. **Acad Emerg Med** 1997 Jan;4(1):33–9

Determinants of ammonia clearance by hemodialysis. Cordoba J, et al. **Artif Organs** 1996 Jul;20(7):800–3

The use of hypertonic saline for the treatment of increased

intracranial pressure. Einhaus SL, et al. **J Tenn Med Assoc** 1996 Mar;89(3):81–2

Treating brain swelling [letter; comment] Paczynski RP, et al. **Neurology** 1996 Apr;46(4):1186. Comment on: Neurology 1995 Jul;45(7):1286–90.

[Monitoring and therapy concepts in increased intracranial pressure. Intensive care medicine in increased intracranial pressure. "Intensive Care Medicine" Expert Forum of the German Society of Anesthesiology and Intensive Care Medicine] Burchardi H. **Zentralbl Neurochir** 1997; 58(1):18–20 **(Ger)**

ULTRASONOGRAPHY

[Value of transcranial Doppler ultrasound in increased intracranial pressure] Schregel W. **Zentralbl Neurochir** 1997;58(1):43–6 (28 ref.) **(Ger)**

BRAIN ELECTRICAL ACTIVITY MAPPING see **BRAIN MAPPING**

BRAIN INJURIES

Sports medicine. Concussion. Brukner P. **Aust Fam Physician** 1996 Sep;25(9):1445–8

Word recall versus reading speed: evidence of preserved priming in head-injured patients. Vakil E, et al. **Brain Cogn** 1996 Jun;31(1):75–89

Speech dysfunction due to trazodone—fluoxetine combination in traumatic brain injury. Patterson DE, et al. **Brain Inj** 1997 Apr;11(4):287–91

The nature, distribution and causes of traumatic brain injury. Graham DI, et al. **Brain Pathol** 1995 Oct;5(4):397–406 (85 ref.)

Management of the pregnant woman who sustains severe brain damage. Webb GW, et al. **Clin Perinatol** 1996 Sep; 23(3):453–64 (50 ref.)

Head injuries in children and adults. Mansfield RT. **Crit Care Clin** 1997 Jul;13(3):611–28 (105 ref.)

Cerebral perfusion pressure monitoring alert! Nates JL, et al. **Crit Care Med** 1997 May;25(5):895–6

Shaken baby syndrome: inflicted cerebral trauma. Committee on Child Abuse and Neglect, 1993–1994. **Del Med J** 1997 Jul;69(7):365–70 (25 ref.)

Mild head trauma. Borczuk P. **Emerg Med Clin North Am** 1997 Aug;15(3):563–79 (87 ref.)

Feasibility of the neuropsychological spectrum in prediction of outcome following head injury. Little AJ, et al. **J Clin Psychol** 1996 Jul;52(4):455–60

The Cochrane Brain and Spinal Cord Injury Group [editorial] Schierhout G, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):1–3

Neonatal subgaleal haematoma: associated risk factors, complications and outcome. Chadwick LM, et al. **J Paediatr Child Health** 1996 Jun;32(3):228–32

Penetrating cranio–cerebral injuries. Buxton N. **J R Army Med Corps** 1997 Jun;143(2):112–4 (34 ref.)

Factors associated with life satisfaction among a sample of persons with neurotrauma. Warren L, et al. **J Rehabil Res Dev** 1996 Oct;33(4):404–8

Pediatric craniocerebral wounds from plastic bullets: prognostic implications, course, and outcome. Paret G, et al. **J Trauma** 1996 Nov;41(5):859–63

From the Centers for Disease Control and Prevention. Sports-related recurrent brain injuries—United States. **JAMA** 1997 Apr 16;277(15):1190–1

Shaken baby syndrome. Diagnosis and prevention. Swenson J, et al. **Minn Med** 1997 Jun;80(6):41–4

Sports-related recurrent brain injuries—United States. **MMWR Morb Mortal Wkly Rep** 1997 Mar 14;46(10):224–7

Traumatic brain injury. Morris GF, et al. **West J Med** 1997 Jun;166(6):415–6

[Craniocerebral injuries at the Vukovar battlefield] Antić B, et al. **Vojnosanit Pregl** 1996 Sep–Oct;53(5):369–72 (Eng. Abstr.) **(Scr)**

[Pediatric cranio–encephalic trauma in the emergency ward] Elorza Arizmendi JF, et al. **An Esp Pediatr** 1997 May; 46(5):464–70 (Eng. Abstr.) **(Spa)**

BLOOD

Population pharmacokinetics of high-dose thiopental in patients with cerebral injuries. Russo H, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):15–20

Blood glucose concentration does not affect outcome in brain trauma: A 31P MRS study. Vink R, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):50–3

Serial S-100 protein serum measurements related to early magnetic resonance imaging after minor head injury. Case report. Ingebrigtsen T, et al. **J Neurosurg** 1996 Nov; 85(5):945–8

Pentobarbital and venous oxygenation [letter; comment] Lam AM, et al. **J Neurosurg** 1997 Jun;86(6):1070–2. Comment on: J Neurosurg 1996 Nov;85(5):758–61.

[Continuous fiberoptic monitoring of oxygen saturation in cerebral veins in severe craniocerebral trauma—experiences and results] Murr R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Feb; 31(1):29–36 (Eng. Abstr.) **(Ger)**

[Thrombocytic hemostasis in patients with severe craniocerebral trauma] Churliaev IuA, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):14–7 (Eng. Abstr.) **(Rus)**

[Alkaline blood serum proteins in patients with the initial manifestations of cerebral arteriosclerosis and the late sequelae of mild closed craniocerebral trauma (comparative data)] Korshniak TV, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):92–3 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Marked increases in concentrations of apolipoprotein in the cerebrospinal fluid of poliovirus-infected macaques: relations between apolipoprotein concentrations and severity of brain injury. Saito K, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):145–9

Neuron-specific enolase as an aid to outcome prediction in head injury. Ross SA, et al. **Br J Neurosurg** 1996 Oct; 10(5):471–6

Interleukin-8 released into the cerebrospinal fluid after brain injury is associated with blood-brain barrier dysfunction and nerve growth factor production. Kossmann T, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):280–9

Elevated levels of the complement components C3 and factor B in ventricular cerebrospinal fluid of patients with traumatic brain injury. Kossmann T, et al. **J Neuroimmunol** 1997 Mar;73(1–2):63–9

Interleukin-6 and interleukin-10 in cerebrospinal fluid after severe traumatic brain injury in children. Bell MJ, et al. **J Neurotrauma** 1997 Jul;14(7):451–7

[The immunological and biochemical reactions of the cerebrospinal fluid in victims of blast injuries of the skull and brain] Khil'ko VA, et al. **Vestn Khir Im I I Grek** 1995; 154(4–6):54–5 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Arousal-modulated attention at four months as a function of intrauterine cocaine exposure and central nervous system injury. Karmel BZ, et al. **J Pediatr Psychol** 1996 Dec; 21(6):821–32

CLASSIFICATION

The relationship of neuropsychological status and productive outcomes following traumatic brain injury. Girard D, et al. **Brain Inj** 1996 Sep;10(9):663–76

An editorial response to Smith-Knapp et al.'s 'Predicting independence from neuropsychological tests following traumatic brain injury' [editorial; comment] Johnstone B. **Brain Inj** 1996 Sep;10(9):627–30. Comment on: Brain Inj 1996 Sep;10(9):651–61.

Predicting functional independence from neuropsychological tests following traumatic brain injury [see comments] Smith-Knapp K, et al. **Brain Inj** 1996 Sep;10(9):651–61. Comment in: Brain Inj 1996 sep;10(9):627–30.

A taxonomy of neurobehavioral functions applied to neuropsychological assessment after head injury. Parker RS. **Neuropsychol Rev** 1996 Sep;6(3):135–70

[Weapons-related craniocerebral wounds in peacetime (their classification and characteristics)] Lebedev VV, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul–Sep;(3):12–9 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Incidence of fever in the rehabilitation phase following brain injury. Clinchot DM, et al. **Am J Phys Med Rehabil** 1997 Jul–Aug;76(4):323–7

Psychogenic polydipsia after traumatic brain injury. A case report. Zafonte RD, et al. **Am J Phys Med Rehabil** 1997 May–Jun;76(3):246–8

Cisapride as a treatment for gastroparesis in traumatic brain injury. Altmayer T, et al. **Arch Phys Med Rehabil** 1996 Oct;77(10):1093–4

Deep venous thrombosis: incidence on admission to a brain injury rehabilitation program. Cifu DX, et al. **Arch Phys Med Rehabil** 1996 Nov;77(11):1182–5

Definition of agitation following traumatic brain injury: I. A survey of the Brain Injury Special Interest Group of the American Academy of Physical Medicine and Rehabilitation. Fugate LP, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):917–23

Measurement and treatment of agitation following traumatic brain injury: II. A survey of the Brain Injury Special Interest Group of the American Academy of Physical Medicine and Rehabilitation. Fugate LP, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):924–8

Sleep and pain complaints in TBI [letter; comment] Richter KJ, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):451. Comment on: Arch Phys Med Rehabil 1996 Dec;77(12):1298–302.

Primary adrenal insufficiency following traumatic brain injury: a case report and review of the literature. Webster JB, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):314–8 (22 ref.)

Cerebral salt wasting syndrome in brain injury patients: a potential cause of hyponatremia. Zafonte RD, et al. **Arch Phys Med Rehabil** 1997 May;78(5):540–2

Kernohan–Woltman notch phenomenon: an unusual cause of ipsilateral motor deficit. Zafonte RD, et al. **Arch Phys Med Rehabil** 1997 May;78(5):543–5

Can visual function be restored in patients with homonymous hemianopia? Pambakian AL, et al. **Br J Ophthalmol** 1997 Apr;81(4):324–8 (64 ref.)

Use of a modified version of the Overt Aggression Scale in the measurement and assessment of aggressive behaviours following brain injury. Alderman N, et al. **Brain Inj** 1997 Jul;11(7):503–23

Psychomotor agitation following gabapentin use in brain injury. Childers MK, et al. **Brain Inj** 1997 Jul;11(7):537–40

Head injury and sexual dysfunction [see comments] Elliott ML, et al. **Brain Inj** 1996 Oct;10(10):703–17 (111 ref.). Comment in: Brain Inj 1997 May;11(5):389–90.

Awareness and perceptions of outcomes after traumatic brain injury. Hillier SL, et al. **Brain Inj** 1997 Jul;11(7):525–36

Information needs of the traumatic brain injury patient's family members regarding the consequences of the injury and associated perception of physical, cognitive, emotional and quality of life changes. Junqué C, et al. **Brain Inj** 1997 Apr;11(4):251–8

Substance abuse, traumatic brain injury and neuropsychological outcome. Kelly MP, et al. **Brain Inj** 1997 Jun;11(6):391–402

Neuropsychological assessment after extremely severe head injury in a case of life or death. McMillan TM. **Brain Inj** 1997 Jul;11(7):483–90

Sexual functioning following traumatic brain injury. Sandel ME, et al. **Brain Inj** 1996 Oct;10(10):719–28

Semantic memory impairments following non-progressive brain injury: a study of four cases. Wilson BA. **Brain Inj** 1997 Apr;11(4):259–69

Change in relationship status following traumatic brain injury. Wood RL, et al. **Brain Inj** 1997 Jul;11(7):491–501

Air embolism in the agitated traumatic brain injury patient: an unusual complication. Zafonte RD, et al. **Brain Inj** 1996 Oct;10(10):759–61

Subject review on head injury and sexual dysfunction [letter; comment] Zasler ND. **Brain Inj** 1997 May;11(5):389–90 (4 ref.). Comment on: Brain Inj 1996 Oct;10(10):703–17.

Evaluation of brain injury related behavioral disturbances in community mental health centers. McAllister TW. **Community Ment Health J** 1997 Aug;33(4):341–58; discussion 359–64 (96 ref.)

Persistent vegetative state in Connecticut: legal history and the presentation of a case. Kaldjian LC. **Conn Med** 1996 Aug;60(8):485–94

The use of hyperventilation and its impact on cerebral ischemia in the treatment of traumatic brain injury. Yundt KD, et al. **Crit Care Clin** 1997 Jan;13(1):163–84 (85 ref.)

Effect of hyperglycemia after cortical injury [editorial; comment] Hovda DA. **Crit Care Med** 1997 Aug; 25(8):1267–8. Comment on: Crit Care Med 1997 Aug;25(8):1378–83.

Survival and functional outcome of children following severe traumatic brain injury [editorial; comment] Matthews DJ. **Crit Care Med** 1997 Aug;25(8):1272. Comment on: Crit Care Med 1997 Aug;25(8):1396–401.

Traumatic mutism in severe head injury relieved by oral diazepam. Caradoc-Davies TH. **Disabil Rehabil** 1996 Sep; 18(9):482–4

Post-traumatic apallic syndrome following head injury. Part 1: clinical characteristics. Grossman P, et al. **Disabil Rehabil** 1996 Jan;18(1):1–20 (211 ref.)

Reduction of traumatic brain injury-induced cerebral oedema by a free radical scavenger. Petty MA, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):149–55

'Efficient' timely evacuation of intracranial haematoma—the effect of transport direct to a specialist centre. Wright KD, et al. **Injury** 1996 Dec;27(10):719–21

Haemodynamic changes in neurogenic pulmonary oedema: effect of dobutamine. Deehan SC, et al. **Intensive Care Med** 1996 Jul;22(7):672–6

Event-related potentials—neurophysiological tools for predicting emergence and early outcome from traumatic coma. Kane NM, et al. **Intensive Care Med** 1996 Jan; 22(1):39–46

Post-traumatic malignant glioma. Report of a case. Di Trapani G, et al. **Ital J Neurol Sci** 1996 Aug;17(4):283–6

Traumatic brain injury in children and adolescents: psychiatric disorders in the first three months. Max JE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jan; 36(1):94–102

Traumatic brain injury in children and adolescents: psychiatric disorders at two years. Max JE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep; 36(9):1278–85

Traumatic brain injury in a child psychiatry outpatient clinic: a controlled study. Max JE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Mar;36(3):404–11

Traumatic porencephalic cyst of the brain. Yang DN, et al. **J Am Optom Assoc** 1997 Aug;68(8):519–26

Antidepressant pharmacotherapy and the treatment of depression in patients with severe traumatic brain injury: a controlled, prospective study. Wroblewski BA, et al. **J Clin Psychiatry** 1996 Dec;57(12):582–7

Spontaneous recovery from post-traumatic hypopituitarism. Iglesias P, et al. **J Endocrinol Invest** 1996 May;19(5):320–3

Traumatic brain injury in children and adolescents: psychiatric disorders in the second three months. Max JE, et al. **J Nerv Ment Dis** 1997 Jun;185(6):394–401

Continuous intrathecal baclofen infusion in severe spasticity after traumatic or hypoxic brain injury. Becker R, et al. **J Neurol** 1997 Mar;244(3):160–6

Feeling cold: an unusual brain injury symptom and its treatment with vasopressin [letter] Eames P. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):198–9

Effect of amantadine hydrochloride on symptoms of frontal lobe dysfunction in brain injury: case studies and review.

Kraus MF, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):222–30

Posttraumatic stress disorder in patients with traumatic brain injury and amnesia for the event? Warden DL, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter;9(1):18–22

Three cases of enduring memory impairment after bilateral damage limited to the hippocampal formation. Rempel-Clower NL, et al. **J Neurosci** 1996 Aug 15; 16(16):5233–55

Intrathecally administered baclofen for treatment of children with spasticity of cerebral origin. Armstrong RW, et al. **J Neurosurg** 1997 Sep;87(3):409–14

Posttraumatic vasospasm [letter; comment] Greene KA, et al. **J Neurosurg** 1997 Jul;87(1):134–6. Comment on: J Neurosurg 1996 May;84(5):762–8.

Posttraumatic ventriculomegaly: hydrocephalus or atrophy? A new approach for diagnosis using CSF dynamics. Marmarou A, et al. **J Neurosurg** 1996 Dec;85(6):1026–35

Prospective assessment of continuous intrathecal infusion of baclofen for spasticity caused by acquired brain injury: a preliminary report. Meythaler JM, et al. **J Neurosurg** 1997 Sep;87(3):415–9

Patients with retained transcranial knife blades: a high-risk group. Taylor AG, et al. **J Neurosurg** 1997 Oct;87(4):512–5

Thresholds for cerebral ischemia after severe head injury: relationship with late CT findings and outcome. Schröder ML, et al. **J Neurotrauma** 1996 Jan;13(1):17–23

Treatment efficacy: cognitive-communicative disorders resulting from traumatic brain injury in adults. Coelho CA, et al. **J Speech Hear Res** 1996 Oct;39(5):S5–17 (101 ref.)

Effect of visual and inferential variables on scene descriptions by right-hemisphere-damaged and non-brain-damaged adults. Myers PS, et al. **J Speech Hear Res** 1996 Aug; 39(4):870–80

Avoidance of hypotension: conditio sine qua non of successful severe head-injury management. Chesnut RM. **J Trauma** 1997 May;42(5 Suppl):S4–9 (31 ref.)

Outcome after traumatic brain injury in the U.S. military medical system. Ommaya AK, et al. **J Trauma** 1996 Dec; 41(6):972–5

Concluding comments: common themes, disagreements, and future directions. Downes JJ, et al. **Memory** 1997 Jan–Mar; 5(1–2):301–11

Predicting syndromes of amnesia from a composite holographic associative recall/recognition model (CHARM). Metcalfe J. **Memory** 1997 Jan–Mar; 5(1–2):233–53

Seizures, epilepsy, and functional recovery after traumatic brain injury: a reappraisal. Hernandez TD, et al. **Neurology** 1997 Apr;48(4):803–6 (47 ref.)

Post-traumatic movement disorders in survivors of severe head injury. Krauss JK, et al. **Neurology** 1996 Dec; 47(6):1488–92

Emotional disturbances and their interaction with neuropsychological deficits. Reitan RM, et al. **Neuropsychol Rev** 1997 Mar;7(1):3–19 (67 ref.)

Effects of hemispheric side of injury, age at injury, and presence of seizure disorder on functional ear and hand asymmetries in hemiplegic children. Isaacs E, et al. **Neuropsychologia** 1996 Feb;34(2):127–37

Acute lung injury in isolated traumatic brain injury. Bratton SL, et al. **Neurosurgery** 1997 Apr;40(4):707–12; discussion 712

Cerebral arterial spasm after penetrating craniocerebral gunshot wounds: transcranial Doppler and cerebral blood flow findings. Kordestani RK, et al. **Neurosurgery** 1997 Aug;41(2):351–9; discussion 359–60

Carpectomy and fusion in adult-acquired hand spasticity. Pinzur MS. **Orthopedics** 1996 Aug;19(8):675–7

Vision outcome at age 2 years in a low birth weight population. Pinto-Martin JA, et al. **Pediatr Neurol** 1996 May;14(4):281–7

Depression following brain trauma is enhanced in patients with mild discrepancies between intelligence and impairment on neuropsychological scores. Persinger MA. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1284–6

Alcohol level at head injury and subsequent psychotropic treatment during trauma critical care. Chatham-Showalter PE, et al. **Psychosomatics** 1996 May-Jun;37(3):285–8

Swallowing problems in adults with traumatic brain injury. Cherney LR, et al. **Semin Neurol** 1996 Dec;16(4):349–53 (23 ref.)

Executive functions after traumatic brain injury: supported cognition and self-advocacy. Ylvisaker M, et al. **Semin Speech Lang** 1996 Aug;17(3):217–32 (68 ref.)

Heparin ameliorates brain injury by inhibiting leukocyte accumulation [letter; comment] Yanaka K, et al. **Stroke** 1996 Nov;27(11):2146–7. Comment on: Stroke 1996 Feb;27(2):303–9; discussion 310.

Cranioplasty: cosmetic or therapeutic? Dujovny M, et al. **Surg Neurol** 1997 Mar;47(3):238–41 (23 ref.)

Symptomatic patients after craniectomy. Schiffer J, et al. **Surg Neurol** 1997 Mar;47(3):231–7 (22 ref.)

[Restoration of vision after surgical treatment of traumatic optic neuropathy of an uncommon type. Case report and literature review] Haninec P, et al. **Cesk Slov Oftalmol** 1996 Sep;52(4):249–52 (15 ref.) (Eng. Abstr.) **(Cze)**

[Stereotaxic therapy of post-traumatic cerebral hemorrhage] Chrastina J, et al. **Rozhl Chir** 1996 Jul;75(7):330–3 (Eng. Abstr.) **(Cze)**

[Vegetative state (see comments)] Minderhoud JM, et al. **Ned Tijdschr Geneeskd** 1996 Nov 30;140(48):2387–90. Comment in: Ned Tijdschr Geneeskd 1997 Mar 1;141(9):446–7. **(Dut)**

[Transfer hypokalemia in a head injured patient (letter)] Donnard G, et al. **Ann Fr Anesth Reanim** 1996;15(7):1137–8 **(Fre)**

[Cerebral findings following cervical spine distortion caused by acceleration mechanism (whiplash injury). Assessment of current diagnostic methods in nuclear medicine] Otte A, et al. **Schweiz Rundsch Med Prax** 1996 Sep 3; 85(36):1087–90 (Eng. Abstr.) **(Ger)**

[Post-traumatic seizure prevention--results of a survey of 127 neurosurgery clinics] Dauch WA, et al. **Zentralbl Neurochir** 1996;57(4):190–5 (Eng. Abstr.) **(Ger)**

[Two cases of delayed posttraumatic vasospasm followed by brain SPECT] Hirano A, et al. **No Shinkei Geka** 1997 May; 25(5):447–53 (Eng. Abstr.) **(Jpn)**

[Natural course of non-operative cases of acute subdural hematoma: sequential computed tomographic study in the acute and subacute stages] Izumihara A, et al. **No Shinkei Geka** 1997 Apr;25(4):307–14 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Diffuse ventricular enlargement outlines the late outcome of diffuse axonal brain injury] Masuzawa H, et al. **No Shinkei Geka** 1996 Mar;24(3):227–33 (Eng. Abstr.) **(Jpn)**

[Penetrating brain injury and traumatic aneurysm caused by a nail gun] Sakuta Y, et al. **No Shinkei Geka** 1997 Apr; 25(4):357–62 (Eng. Abstr.) **(Jpn)**

[Acute subdural hematoma caused by professional boxing] Sawauchi S, et al. **No Shinkei Geka** 1996 Oct;24(10):905–11 (Eng. Abstr.) **(Jpn)**

[Cooperative multicentre study on posttraumatic epilepsy] Kobayashi M, et al. **No To Shinkei** 1997 Aug;49(8):723–7 (Eng. Abstr.) **(Jpn)**

[Leakage of cerebrospinal fluid. Diagnosis and treatment] Elverland HH, et al. **Tidsskr Nor Laegeforen** 1996 Oct 30; 116(26):3098–101 (Eng. Abstr.) **(Nor)**

[The effect of benzodiazepine derivatives on the formation of brain edema-swelling in the dynamics of the posttraumatic period] Novikov VE. **Eksp Klin Farmakol** 1996 May-Jun;59(3):61–3 (Eng. Abstr.) **(Rus)**

[Pulmonary complications in severe combined craniocerebral trauma (their pathogenesis, clinical picture, diagnosis and treatment)] Gembitskiĭ EV, et al. **Klin Med (Mosk)** 1996; 74(2):12–6 (Eng. Abstr.) **(Rus)**

[The mechanism of the formation and the morphological characteristics of intra-brain stem hemorrhages in craniocerebral trauma] Pushakov SM. **Sud Med Ekspert** 1997 Jan-Mar;40(1):9–11 (Eng. Abstr.) **(Rus)**

[Post-traumatic tics] Alegre S, et al. **Rev Neurol** 1996 Oct; 24(134):1280–2 (Eng. Abstr.) **(Spa)**

[Frequency of neurological sequelae secondary to head traumas] Alva E. **Rev Neurol** 1996 Nov;24(135):1390–2 (25 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Prognostic value of Glasgow Coma Scale for tracheotomy in head injured patients. Lajtman Z, et al. **Acta Med Croatica** 1996;50(3):133–6

Significance of intracranial pressure waveform analysis after head injury. Czosnyka M, et al. **Acta Neurochir (Wien)** 1996;138(5):531–41; discussion 541–2

Changes of sympatho-adrenal and hypothalamo-pituitary-adrenocortical system in patients with head injury. Kõiv L, et al. **Acta Neurol Scand** 1997 Jul;96(1):52–8

High signal intensity of the infundibular stalk on fluid-attenuated inversion recovery MR. Araki Y, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):89–93

Hippocampal volume in normal aging and traumatic brain injury [see comments] Bigler ED, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):11–23. Comment in: AJNR Am J Neuroradiol 1997 Jan;18(1):25–8.

MR-based brain and cerebrospinal fluid measurement after traumatic brain injury: correlation with neuropsychological outcome. Blatter DD, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):1–10

Medial temporal lobe volumetrics in traumatic brain injury [comment] Jack CR Jr. **AJNR Am J Neuroradiol** 1997 Jan; 18(1):25–8. Comment on: AJNR Am J Neuroradiol 1997 Jan;18(1):11–23.

Posttraumatic olfactory dysfunction: MR and clinical evaluation. Yousem DM, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1171–9

Acute and chronic brain injury in United States National Team Soccer Players [letter; comment] Jordan BD. **Am J Sports Med** 1996 Sep-Oct;24(5):704–5. Comment on: Am J Sports Med 1996 Mar-Apr;24(2):205–10.

1H-magnetic resonance spectroscopy-determined cerebral lactate and poor neurological outcomes in children with central nervous system disease. Ashwal S, et al. **Ann Neurol** 1997 Apr;41(4):470–81

Psychiatric outcomes in low-birth-weight children at age 6 years: relation to neonatal cranial ultrasound abnormalities [see comments] Whitaker AH, et al. **Arch Gen Psychiatry** 1997 Sep;54(9):847–56. Comment in: Arch Gen Psychiatry 1997 Sep;54(9):785–9.

Mild traumatic brain injury [letter; comment] Malec JF. **Arch Phys Med Rehabil** 1997 Mar;78(3):334–5. Comment on: Arch Phys Med Rehabil 1996 Jun;77(6):529–35.

The malingering of multiple sclerosis and mild traumatic brain injury. Klimczak NJ, et al. **Brain Inj** 1997 May; 11(5):343–52

Sensitivity of the WAIS-R Verbal-Performance IQ difference and intersubtest scatter to traumatic brain injury. Wechsler Adult Intelligence Scale-Revised. Kraiuhin C, et al. **Brain Inj** 1996 Sep;10(9):677–85

Reliability of early motor function testing in persons following severe traumatic brain injury. Swaine BR, et al. **Brain Inj** 1996 Apr;10(4):263–76

Assessment of pragmatic communication skills in adolescents after traumatic brain injury. Turkstra LS, et al. **Brain Inj** 1996 May;10(5):329–45

Psychiatric disorders after traumatic brain injury. van Reekum R, et al. **Brain Inj** 1996 May;10(5):319–27

Age and recovery from brain injury: clinical opinions and experimental evidence. Webb C, et al. **Brain Inj** 1996 Apr; 10(4):303–10

Cerebral microdialysis as a diagnostic tool in acute brain injury. Landolt H, et al. **Eur J Anaesthesiol** 1996 May; 13(3):269–78 (38 ref.)

Approach to head trauma in childhood in a district general hospital. Loroni L, et al. **Eur J Emerg Med** 1996 Sep; 3(3):141–8

Timing of periventricular leukomalacia using neonatal electroencephalography. Itakura A, et al. **Int J Gynaecol Obstet** 1996 Nov;55(2):111–5

Disability in patients following traumatic brain injury--which measure? McPherson KM, et al. **Int J Rehabil Res** 1997 Mar;20(1):1–10

How reliable is the predictive value of SEP (somatosensory evoked potentials) patterns in severe brain damage with special regard to the bilateral loss of cortical responses? Pohlmann-Eden B, et al. **Intensive Care Med** 1997 Mar; 23(3):301–8

Somatosensory evoked potentials: predictors of outcome in children with severe brain injury [letter; comment] Adams E, et al. **J Pediatr** 1996 Mar;128(3):438–9. Comment on: J Pediatr 1995 Jan;126(1):44–9.

Computerised tomography scans of the head in a district general hospital [see comments] Nixon J, et al. **J R Coll Physicians Lond** 1996 Nov-Dec;30(6):547–50. Comment in: J R Coll Physicians Lond 1997 Mar-Apr;31(2):223–4.

Mild traumatic brain injuries in low-risk trauma patients. Chambers J, et al. **J Trauma** 1996 Dec;41(6):976–80

A case of contrecoup vestibular injury. Hardin MF. **Kans Med** 1996 Summer-Fall;97(2):14–5

Diagnosis of intracranial injury [letter] Gebara BM. **Lancet** 1997 May 31;349(9065):1628

Diagnosis of intracranial injury [letter] Powell JE, et al. **Lancet** 1997 May 31;349(9065):1627–8

Application of neuroimaging for the evaluation of brain trauma. Reider-Groswasser I, et al. **Neurol Neurochir Pol** 1996;30 Suppl 2:127–30 (13 ref.)

Practical guidelines in the use of symptom validity and other psychological tests to measure malingering and symptom exaggeration in traumatic brain injury cases. Etcoff LM, et al. **Neuropsychol Rev** 1996 Dec;6(4):171–201 (91 ref.)

Crush injuries to the head [letter; comment] Gonzalez Tortosa J, et al. **Neurosurgery** 1996 Oct;39(4):877–8. Comment on: Neurosurgery 1995 Sep;37(3):401–6; discussion 407.

The prognostic value of the Glasgow Coma Scale, hypoxia and computerised tomography in outcome prediction of pediatric head injury. Ong L, et al. **Pediatr Neurosurg** 1996 Jun;24(6):285–91

The value of MRI in the early diagnosis of growing skull fracture. Husson B, et al. **Pediatr Radiol** 1996 Oct; 26(10):744–7

Performance on the Wechsler Memory Scale-Revised for patients with mild traumatic brain injury and mild dementia. Brooker AE. **Percept Mot Skills** 1997 Feb; 84(1):131–8

Proton MR spectroscopy after acute central nervous system injury: outcome prediction in neonates, infants, and children. Holshouser BA, et al. **Radiology** 1997 Feb; 202(2):487–96

Acute whiplash injury: is there a role for MR imaging?--a prospective study of 100 patients. Ronnen HR, et al. **Radiology** 1996 Oct;201(1):93–6

A sellar misadventure--imaging considerations. Hayman LA, et al. **Surv Ophthalmol** 1996 Nov-Dec;41(3):252–4

MR of the brain in children. Grattan-Smith JD, et al. **Top Magn Reson Imaging** 1996 Aug;8(4):193–213 (99 ref.)

[Retained capacity for action in brain gunshot injury. Case report and systematic examination] Karger B, et al. **Arch Kriminol** 1997 May-Jun;199(5-6):159–66 (18 ref.) (Eng. Abstr.) **(Ger)**

[Routine diagnosis and targeted diagnosis of craniocerebral trauma] Küker W, et al. **Chirurg** 1996 Nov;67(11):1098–106 (21 ref.) (Eng. Abstr.) **(Ger)**

[Prognosis of polytrauma patients with severe craniocerebral trauma during the critical care phase] Lehmann U, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:340–1 (Eng. Abstr.) **(Ger)**

[Preclinical diagnosis and management in severe craniocerebral trauma] Erhard J, et al. **Unfallchirurg** 1996 Aug;99(8):534–40 (29 ref.) (Eng. Abstr.) **(Ger)**

[Functional, neuropsychological and social outcome of polytrauma patients with severe craniocerebral trauma] Lehmann U, et al. **Unfallchirurg** 1997 Jul;100(7):552–60 (Eng. Abstr.) **(Ger)**

[Clinical utility of MR FLAIR imaging for head injuries]

Ashikaga R. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Dec;56(14):1045–9 (Eng. Abstr.) **(Jpn)**

[FLAIR images of patients with head injuries] Tsurushima H, et al. **No Shinkei Geka** 1996 Oct;24(10):891–5 (Eng. Abstr.) **(Jpn)**

[Coagulation disorders as early predictor of brain injury] Takanashi Y, et al. **No To Shinkei** 1996 Nov;48(11):1009–13 (Eng. Abstr.) **(Jpn)**

[Atropa belladonna poisoning suggesting severe post-traumatic brain damage] Perlik-Gattner I. **Przegl Lek** 1997;54(6):464–5 (Eng. Abstr.) **(Pol)**

[The diagnosis of closed duodenal injury in craniocerebral trauma] Mazurenko OV. **Klin Khir** 1995;(1):13–4 **(Rus)**

[Bone fractures and craniocerebral trauma] Mamonov IuP. **Vestn Khir Im I I Grek** 1996;155(3):63–4 **(Rus)**

[The diagnosis of peacetime firearms craniocerebral wounds in the acute period] Lebedev VV, et al. **Zh Vop: Neirokhir Im N N Burdenko** 1996 Oct–Dec; (4):19–22 (Eng. Abstr.) **(Rus)**

[Cranioencephalic trauma in adults: clinical and radiologic features] Marruecos-Sant L, et al. **Med Clin (Barc)** 1996 Oct 5;107(11):405–9 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Nimodipine in traumatic subarachnoid haemorrhage: a re-analysis of the HIT I and HIT II trials. Murray GD, et al. **Acta Neurochir (Wien)** 1996;138(10):1163–7

Steroids in central nervous system injury. Nguyen T, et al. **Adv Surg** 1996;30:53–69 (61 ref.)

Changes in cerebral hemodynamics after a single dose of clonidine in severely head-injured patients. ter Minassian A, et al. **Anesth Analg** 1997 Jan;84(1):127–32

Gangliosides minimize motor disabilities and histopathological changes in cortical lesioned and transplanted rats. Garcia JD, et al. **Arch Med Res** 1996 Winter;27(4):465–71

The agitated brain injured patient. Part 2: Pathophysiology and treatment. Mysiw WJ, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):213–20 (121 ref.)

Subacute methylphenidate treatment for moderate to moderately severe traumatic brain injury: a preliminary double-blind placebo-controlled study. Plenger PM, et al. **Arch Phys Med Rehabil** 1996 Jun;77(6):536–40

Tricyclic antidepressant in TBI [letter; comment] Wroblewski B, et al. **Arch Phys Med Rehabil** 1997 Jan; 78(1):109. Comment on: Arch Phys Med Rehabil 1996 Jan;77(1):80–3.

The ACTH(4–9) analog ORG 2766 and recovery after brain damage in animal models—a review. van Rijzingen IM, et al. **Behav Brain Res** 1996 Jan;74(1–2):1–15 (135 ref.)

Corticosteroids in acute traumatic brain injury: systematic review of randomised controlled trials. Alderson P, et al. **BMJ** 1997 Jun 28;314(7098):1855–9

The combined use of amantadine and l-dopa/carbidopa in the treatment of chronic brain injury. Kraus MF, et al. **Brain Inj** 1997 Jun;11(6):455–60

Changes in microtubule-associated protein 2 and amyloid precursor protein immunoreactivity following traumatic brain injury in rat: influence of MK-801 treatment. Lewén A, et al. **Brain Res** 1996 May 6;719(1–2):161–71

Deferoxamine improves spatial memory performance following experimental brain injury in rats. Long DA, et al. **Brain Res** 1996 Apr 22;717(1–2):109–17

Traumatic neuroprotection with inhibitors of nitric oxide and ADP-ribosylation. Wallis RA, et al. **Brain Res** 1996 Feb 26;710(1–2):169–77

Neurotrophin infusion improves cognitive deficits and decreases cholinergic neuronal cell loss after experimental brain injury. Sinson G, et al. **Clin Neurosurg** 1996;43:219–27

Central nervous system resuscitation. McIntosh TK, et al. **Emerg Med Clin North Am** 1997 Aug;15(3):527–50 (279 ref.)

Elective neurotraumatology and therapeutic strategies in early post-trauma. Borromei A, et al. **Funct Neurol** 1997 Mar-Apr;12(2):89–99

Development of the NMDA ion-channel blocker, aptiganel hydrochloride, as a neuroprotective agent for acute CNS injury. McBurney RN. **Int Rev Neurobiol** 1997;40:173–95 (28 ref.)

Neurochemical mechanisms in brain injury and treatment: a review. Novack TA, et al. **J Clin Exp Neuropsychol** 1996 Oct;18(5):685–706 (192 ref.)

Cytokine production in the brain following closed head injury: dexanabinol (HU-211) is a novel TNF-alpha inhibitor and an effective neuroprotectant. Shohami E, et al. **J Neuroimmunol** 1997 Feb;72(2):169–77 (60 ref.)

Neuroprotection by propofol in acute mechanical injury: role of GABAergic inhibition. Hollrigel GS, et al. **J Neurophysiol** 1996 Oct;76(4):2412–22

Improvement of cognitive deficits and decreased cholinergic neuronal cell loss and apoptotic cell death following neurotrophin infusion after experimental traumatic brain injury. Sinson G, et al. **J Neurosurg** 1997 Mar;86(3):511–8

Role of vasopressin in altered pial artery responses to dynorphin and beta-endorphin following brain injury. Armstead WM. **J Neurotrauma** 1996 Mar;13(3):115–23

Effect of difluoromethylornithine treatment on regional ornithine decarboxylase activity and edema formation after experimental brain injury. Başkaya MK, et al. **J Neurotrauma** 1996 Feb;13(2):85–92

L-arginine and superoxide dismutase prevent or reverse cerebral hypoperfusion after fluid-percussion traumatic brain injury. DeWitt DS, et al. **J Neurotrauma** 1997 Apr; 14(4):223–33

Posttreatment with intravenous basic fibroblast growth factor reduces histopathological damage following fluid-percussion brain injury in rats. Dietrich WD, et al. **J Neurotrauma** 1996 Jun;13(6):309–16

Effects of CDP-choline treatment on neurobehavioral deficits after TBI and on hippocampal and neocortical acetylcholine release. Dixon CE, et al. **J Neurotrauma** 1997 Mar;14(3):161–9

Clinical neuro-protection trials in severe traumatic brain injury: lessons from previous studies. Doppenberg EM, et al. **J Neurotrauma** 1997 Feb;14(2):71–80 (46 ref.)

Lack of delayed effects of amphetamine, methoxamine, and prazosin (adrenergic drugs) on behavioral outcome after lateral fluid percussion brain injury in the rat. Dose JM, et al. **J Neurotrauma** 1997 May;14(5):327–37

Delayed administration of basic fibroblast growth factor (bFGF) attenuates cognitive dysfunction following parasagittal fluid percussion brain injury in the rat. McDermott KL, et al. **J Neurotrauma** 1997 Apr; 14(4):191–200

Reduction of the neurological deficit in mice with traumatic brain injury by nitric oxide synthase inhibitors. Mesenge C, et al. **J Neurotrauma** 1996 Apr;13(4):209–14

Evaluation of a carbohydrate-free diet for patients with severe head injury. Ritter AM, et al. **J Neurotrauma** 1996 Aug;13(8):473–85

Amphetamine and task-specific practice augment recovery of vibrissae-evoked forelimb placing after unilateral sensorimotor cortical injury in the rat. Schmanke T, et al. **J Neurotrauma** 1997 Jul;14(7):459–68

Gene therapy for central nervous system injury: the use of cationic liposomes: an invited review. Yang K, et al. **J Neurotrauma** 1997 May;14(5):281–97 (118 ref.)

Zinc supplementation is associated with improved neurologic recovery rate and visceral protein levels of patients with severe closed head injury. Young B, et al. **J Neurotrauma** 1996 Jan;13(1):25–34

Effects of basic fibroblast growth factor on hippocampal neurons after axonal injury. Himmelseher S, et al. **J Trauma** 1997 Apr;42(4):659–64

Pharmacology of the aminosteroids in brain diseases. Jakobsen M. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:81–2

Effect of VA-045, a novel apovincaminic acid derivative, on closed head injury-induced neurological dysfunction in aged rats. Okuyama S, et al. **Neurol Res** 1997 Jun; 19(3):300–4

Mitochondrial dysfunction after experimental and human brain injury and its possible reversal with a selective N-type calcium channel antagonist (SNX-111). Verweij BH, et al. **Neurol Res** 1997 Jun;19(3):334–9

Botulinum toxin in severe upper extremity spasticity among patients with traumatic brain injury: an open-labeled trial. Yablon SA, et al. **Neurology** 1996 Oct;47(4):939–44

Indeloxazine hydrochloride improves impairment of passive avoidance performance after fluid percussion brain injury in rats. Yamaguchi T, et al. **Neuropharmacology** 1996 Mar; 35(3):329–36

Early effects of mannitol in patients with head injuries assessed using bedside multimodality monitoring. Kirkpatrick PJ, et al. **Neurosurgery** 1996 Oct;39(4):714–20; discussion 720–1

New pharmacologic strategies for acute neuronal injury. Luer MS, et al. **Pharmacotherapy** 1996 Sep–Oct; 16(5):830–48 (242 ref.)

Experience with antithrombin concentrates in neurotrauma patients. Hoots WK. **Semin Thromb Hemost** 1997;23 Suppl 1:3–16

Pharmacokinetics of high-dose thiopental in pediatric patients with increased intracranial pressure. Russo H, et al. **Ther Drug Monit** 1997 Feb;19(1):63–70

Preventing post-traumatic epilepsy after brain injury: weighing the costs and benefits of anticonvulsant prophylaxis. Hernandez TD. **Trends Pharmacol Sci** 1997 Feb;18(2):59–62 (50 ref.)

[The intra-aortic antibacterial therapy of wounded patients with gunshot meningoencephalitis] Murashkin SV, et al. **Voen Med Zh** 1996 Dec;317(12):21–2, 80 (Eng. Abstr.) **(Rus)**

ECONOMICS

Proximal DVT [letter; comment] Oh-Park M. **Arch Phys Med Rehabil** 1996 Jun;77(6):630. Comment on: Arch Phys Med Rehabil 1996 Jan;77(1):1–5.

EMBRYOLOGY

Fetal rat brain injury: effect of transient maternal hypoxemia. Hallak M, et al. **Fetal Diagn Ther** 1997 Mar-Apr; 12(2):68–71

[The reactions of different sections of human embryonic neuroepithelium to damage to the ventricular surface during explantation] Smirnov EB, et al. **Morfologiia** 1997; 111(1):15–8 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Induction of heme oxygenase-1 (HO-1) in glia after traumatic brain injury. Fukuda K, et al. **Brain Res** 1996 Oct 14; 736(1–2):68–75

Chronic administration of a partial muscarinic M1 receptor agonist attenuates decreases in forebrain choline acetyltransferase immunoreactivity following experimental brain trauma. Pike BR, et al. **Exp Neurol** 1997 Sep; 147(1):55–65

Activation of CPP32-like caspases contributes to neuronal apoptosis and neurological dysfunction after traumatic brain injury. Yakovlev AG, et al. **J Neurosci** 1997 Oct 1;17(19):7415–24

Effects of traumatic brain injury on the cholinergic system in the rat. Gorman LK, et al. **J Neurotrauma** 1996 Aug; 13(8):457–63

[Hypertrophic callus formation and craniocerebral trauma: early diagnosis and behavior of basic fibroblast growth factor] Wildburger R, et al. **Unfallchirurg** 1996 Jan; 99(1):17–23 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Epidemiology of traumatic brain injury in children and adolescents in south-western Sweden. Emanuelson I, et al. **Acta Paediatr** 1997 Jul;86(7):730–5

Urban and rural traumatic brain injuries in Colorado. Gabella B, et al. **Ann Epidemiol** 1997 Apr;7(3):207–12

Incidence and aetiology of head injury in a New Zealand adolescent sample. Body C, et al. **Brain Inj** 1996 Aug; 10(8):567–73

Incidence and sequelae of symptomatic venous thromboembolic disease among patients with traumatic brain injury. Lai JM, et al. **Brain Inj** 1997 May;11(5):331–4

Prevalence of speaking and hearing disabilities among adults with traumatic brain injury from a national household survey. Lubinski R, et al. **Brain Inj** 1997 Feb;11(2):103–14

The prevalence of agitation and brain injury in skilled nursing facilities: a survey. Wolf AP, et al. **Brain Inj** 1996 Apr; 10(4):241–5

Towards a disability-oriented epidemiology of traumatic brain injury. van Balen HG, et al. **Disabil Rehabil** 1996 Apr;18(4):181–90

ATV-related central nervous system injuries in Louisiana. Gibbs J., et al. **J La State Med Soc** 1997 Aug;149(8):276–8

Predictive value of skull radiography for intracranial injury in children with blunt head injury. Lloyd DA, et al. **Lancet** 1997 Mar 22;349(9055):821–4

The challenge of traumatic brain injury [editorial] Fearnside MR, et al. **Med J Aust** 1997 Sep 15;167(6):293–4

Traumatic brain injury—Colorado, Missouri, Oklahoma, and Utah, 1990–1993. **MMWR Morb Mortal Wkly Rep** 1997 Jan 10;46(1):8–11

Traumatic brain injury registry in Taiwan. Chiu WT, et al. **Neurol Res** 1997 Jun;19(3):261–4

Surveillance of traumatic brain injuries in Utah. Thurman DJ, et al. **West J Med** 1996 Oct;165(4):192–6

ETHNOLOGY

A cross-cultural study on impaired self-awareness in Japanese patients with brain dysfunction. Prigatano GP, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr;10(2):135–43

ETIOLOGY

Fetal CNS damage after exposure to maternal trauma during pregnancy. Baethmann M, et al. **Acta Paediatr** 1996 Nov; 85(11):1331–8

Impact of reoxygenation with oxygen and air on the extent of the brain damage after hypoxia-ischaemia in neonatal rats. Bågenholm R, et al. **Acta Paediatr** 1996 Oct; 85(10):1228–31

Epidemiology of traumatic brain injury in children and adolescents in south-western Sweden. Emanuelson I, et al. **Acta Paediatr** 1997 Jul;86(7):730–5

An introduction to alcohol-induced brain damage and its causes. Harper C, et al. **Alcohol Alcohol Suppl** 1994; 2:237–43 (26 ref.)

Thiamine utilization in the pathogenesis of alcohol-induced brain damage. Martin PR, et al. **Alcohol Alcohol Suppl** 1994; 2:273–9 (35 ref.)

Acute and chronic brain injury in United States National Team soccer players [see comments] [published erratum appears in Am J Sports Med 1996 Jul-Aug;24(4):563] Jordan SE, et al. **Am J Sports Med** 1996 Mar-Apr; 24(2):205–10. Comment in: Am J Sports Med 1996 Sep-Oct;24(5):704–5.

Outcomes '97. Proceedings and abstracts of conference on cardiac and vascular surgery: neurobehavioral assessment, physiological monitoring and cerebral protective strategies. Key West, Florida, April 24–27, 1997. **Ann Thorac Surg** 1997 Sep;64(3):897–926

Induction of neuronal nitric oxide after hypothermic circulatory arrest. Brock MV, et al. **Ann Thorac Surg** 1996 Nov;62(5):1313–20

Cohort study of multiple brain lesions in sport divers: role of a patent foramen ovale [see comments] Knauth M, et al. **BMJ** 1997 Mar 8;314(7082):701–5. Comment in: BMJ 1997 Mar 8;314(7082):689–90. Comment in: BMJ 1997 Jun 14;314(7096):1761; discussion 1761–2.

Brain damage in divers [editorial; comment] [see comments] Wilmshurst P. **BMJ** 1997 Mar 8;314(7082):689–90. Comment on: BMJ 1997 Mar 8;314(7082):701–5. Comment in: BMJ 1997 Jun 14;314(7096):1761; discussion 1761–2.

Ocular and cerebral trauma in non-accidental injury in infancy [letter; comment] Liguori G, et al. **Br J Ophthalmol** 1997 Apr;81(4):333; discussion 333–4.

Comment on: Br J Ophthalmol 1996 Apr;80(4):282-7.

Efficacy of postacute brain injury rehabilitation for patients with primary malignant brain tumors. Sherer M, et al. **Cancer** 1997 Jul 15;80(2):250-7

Exacerbation of cerebral injury in mice that express the P-selectin gene: identification of P-selectin blockade as a new target for the treatment of stroke. Connolly ES Jr, et al. **Circ Res** 1997 Sep;81(3):304-10

Mechanisms of secondary brain injury. Siesjö BK, et al. **Eur J Anaesthesiol** 1996 May;13(3):247-68 (160 ref.)

Intracranial placement of a nasotracheal tube after facial fracture: a rare complication [see comments] Marlow TJ, et al. **J Emerg Med** 1997 Mar-Apr;15(2):187-91 (12 ref.) . Comment in: J Emerg Med 1997 Mar-Apr;15(2):243-4.

Air-powered guns: too much firepower to be a toy. Bond SJ, et al. **J Trauma** 1996 Oct;41(4):674-8

Early fracture fixation may be deleterious after head injury [see comments] Jaicks RR, et al. **J Trauma** 1997 Jan; 42(1):1-5; discussion 5-6. Comment in: J Trauma 1997 May;42(5):981; discussion 983. Comment in: J Trauma 1997 May;42(5):981-2; discussion 983. Comment in: J Trauma 1997 May;42(5):982-3.

An unexpected fetal outcome following a severe maternal motor vehicle accident. Anquist KW, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):656-9

Maternal intrauterine infection, cytokines, and brain damage in the preterm newborn. Dammann O, et al. **Pediatr Res** 1997 Jul;42(1):1-8 (138 ref.)

Automatic garage door openers: hazard for children. Kriel RL, et al. **Pediatrics** 1996 Oct;98(4 Pt 1):770-3

Diagnostic and therapeutic challenges. Schatz H. **Retina** 1997;17(2):154-9

Cranioplasty: cosmetic or therapeutic? Dujovny M, et al. **Surg Neurol** 1997 Mar;47(3):238-41 (23 ref.)

Symptomatic patients after craniectomy. Schiffer J, et al. **Surg Neurol** 1997 Mar;47(3):231-7 (22 ref.)

[Present views on boxing--Henner's legacy] Tichý J. **Cas Lek Cesk** 1997 May 29;136(11):352-5 (Eng. Abstr.) **(Cze)**

[Trauma to the anterior cranial base. Report of a case] Spallaccia F, et al. **Minerva Stomatol** 1996 Jun;45(6):289-93 (Eng. Abstr.) **(Ita)**

[Penetrating head and neck gunshot injuries. A 10-year neurological material] Berg-Johnsen, et al. **Tidsskr Nor Laegeforen** 1997 Jan 20;117(2):236-40 (Eng. Abstr.) **(Nor)**

[Minor head injuries in sport. Occurrence, management, sequelae and prevention] Ingebrigtsen T, et al. **Tidsskr Nor Laegeforen** 1996 Dec 10;116(30):3594-7 (39 ref.) (Eng. Abstr.) **(Nor)**

[Secondary craniocerebral trauma in acute disorders of the cerebral circulation] Pedachenko GA, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):90-2 (Eng. Abstr.) **(Rus)**

[The establishment of the mechanism of craniocerebral trauma by the nature of morphological substrates of brain contusions] Pashinian GA, et al. **Sud Med Ekspert** 1996 Jul-Sep;39(3):5-9 (Eng. Abstr.) **(Rus)**

GENETICS

Genetics and head injury. Nicoll JA. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):515-7 (13 ref.)

IMMUNOLOGY

Cytokine production in the brain following closed head injury: dexanabinol (HU-211) is a novel TNF-alpha inhibitor and an effective neuroprotectant. Shohami E, et al. **J Neuroimmunol** 1997 Feb;72(2):169-77 (60 ref.)

Astrogliosis in the neonatal and adult murine brain post-trauma: elevation of inflammatory cytokines and the lack of requirement for endogenous interferon-gamma. Rostworowski M, et al. **J Neurosci** 1997 May 15; 17(10):3664-74

Diminished microtubule-associated protein 2 (MAP2) immunoreactivity following cortical impact brain injury. Posmantur RM, et al. **J Neurotrauma** 1996 Mar; 13(3):125-37

[Autoantibodies against nerve tissue proteins long after cranio-cerebral injury] Morozov SG, et al. **Vopr Med Khim** 1996 Apr-Jun;42(2):147-52 (Eng. Abstr.) **(Rus)**

[Immunopathology in craniocerebral trauma] Ermekov ZhM. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr-Jun; (2):23-5 (Eng. Abstr.) **(Rus)**

METABOLISM

Analysis of abnormal jugular bulb oxygen saturation data in patients with severe head injury. de Deyne C, et al. **Acta Neurochir (Wien)** 1996;138(12):1409-15

Quantitative cerebral blood flow and metabolism determination in the first 48 hours after severe head injury with a new dynamic SPECT device. Della Corte F, et al. **Acta Neurochir (Wien)** 1997;139(7):636-41; discussion 641-2

Cerebral lactate production in relation to intracranial pressure, cranial computed tomography findings, and outcome in patients with severe head injury. Murr R, et al. **Acta Neurochir (Wien)** 1996;138(8):928-36; discussion 936-7

Changes of sympatho-adrenal and hypothalamo-pituitary-adrenocortical system in patients with head injury. Kõiv L, et al. **Acta Neurol Scand** 1997 Jul;96(1):52-8

Up-regulation of intercellular adhesion molecule 1 in cerebral microvessels after cortical contusion trauma in a rat model. Isaksson J, et al. **Acta Neuropathol (Berl)** 1997 Jul; 94(1):16-20

Brain damage and temperature: cellular and molecular mechanisms. Dietrich WD, et al. **Adv Neurol** 1996; 71:177-94; discussion 194-7 (117 ref.)

Thiamine utilization in the pathogenesis of alcohol-induced brain damage. Martin PR, et al. **Alcohol Alcohol Suppl** 1994; 2:273-9 (35 ref.)

Uncoupling of local cerebral glucose metabolism and blood flow after acute fluid-percussion injury in rats. Ginsberg MD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2859-68

Transcranial cytokine gradients in patients requiring intensive care after acute brain injury. McKeating EG, et al. **Br J Anaesth** 1997 May;78(5):520-3

Role of excitatory amino acid-mediated ionic fluxes in traumatic brain injury. Katayama Y, et al. **Brain Pathol** 1995 Oct;5(4):427-35 (87 ref.)

Dorsal lesions of the prefrontal cortex: effects on alcohol consumption and subcortical monoaminergic systems. Deckel AW, et al. **Brain Res** 1996 Jun 3;723(1-2):70-6

Reduced evoked release of acetylcholine in the rodent neocortex following traumatic brain injury. Dixon CE, et al. **Brain Res** 1997 Feb 21;749(1):127-30

Histological markers of neuronal, axonal and astrocytic changes after lateral rigid impact traumatic brain injury. Dunn-Meynell AA, et al. **Brain Res** 1997 Jun 27; 761(1):25-41

Traumatic brain axonal injury produces sustained decline in intracellular free magnesium concentration. Heath DL, et al. **Brain Res** 1996 Oct 28;738(1):150-3

Effect of lesions of forebrain circumventricular organs on c-fos expression in the central nervous system to plasma hypernatremia. Hochstenbach SL, et al. **Brain Res** 1996 Mar 25;713(1-2):17-28

Marked alterations in the cellular localisation and levels of apolipoprotein E following acute subdural haematoma in rat. Horsburgh K, et al. **Brain Res** 1997 Jul 18;763(1):103-10

The effect of MK-801 on extracellular neuroactive amino acids in hippocampus after closed head injury followed by hypoxia in rats. Katoh H, et al. **Brain Res** 1997 May 30;758(1-2):153-62

Interleukin-6 released in human cerebrospinal fluid following traumatic brain injury may trigger nerve growth factor production in astrocytes. Kossmann T, et al. **Brain Res** 1996 Mar 25;713(1-2):143-52

Alterations in brain protein kinase C after experimental brain injury. Padmaperuma B, et al. **Brain Res** 1996 Apr 1; 714(1-2):19-26

Characterization of a distinct set of intra-axonal ultrastructural changes associated with traumatically induced alteration in axolemmal permeability. Pettus EH, et al. **Brain Res** 1996 May 25;722(1-2):1-11

DNA fragmentation and nuclear endonuclease activity in rat brain after severe closed head injury. Pravdenkova SV, et al. **Brain Res** 1996 Aug 12;729(2):151-5

Voltage-sensitive calcium channels mediate calcium entry into cultured mammalian sympathetic neurons following neurite transection. Sattler R, et al. **Brain Res** 1996 May 6;719(1-2):239-46

Cerebral uric acid increases following experimental traumatic brain injury in rat. Tayag EC, et al. **Brain Res** 1996 Sep 16;733(2):287-91

Effects of unilateral or bilateral lesions within the anteroventral third ventricular region on c-fos expression induced by dehydration or angiotensin II in the supraoptic and paraventricular nuclei of the hypothalamus. Xu Z, et al. **Brain Res** 1996 Mar 25;713(1-2):36-43

Cellular signaling roles of TGF beta, TNF alpha and beta APP in brain injury responses and Alzheimer's disease. Mattson MP, et al. **Brain Res Brain Res Rev** 1997 Feb; 23(1-2):47-61 (119 ref.)

Experimental brain injury induces differential expression of tumor necrosis factor-alpha mRNA in the CNS. Fan L, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):287-91

Increased expression of NLRR-3 mRNA after cortical brain injury in mouse. Ishii N, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):148-52

Regionally and temporally distinct patterns of induction of c-fos, c-jun and junB mRNAs following experimental brain injury in the rat. Raghupathi R, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):134-44

Comparison of RPTP zeta/beta, phosphacan, and trkB mRNA expression in the developing and adult rat nervous system and induction of RPTP zeta/beta and phosphacan mRNA following brain injury. Snyder SE, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):79-96

Induction of clusterin in the immature brain following a hypoxic-ischemic injury. Walton M, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1-2):137-52

Induction of Na+/myo-inositol co-transporter mRNA after rat cryogenic injury. Yamashita T, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):236-42

Nutritional management of the critically ill neurologic patient. Twyman D. **Crit Care Clin** 1997 Jan;13(1):39-49 (30 ref.)

The use of hyperventilation and its impact on cerebral ischemia in the treatment of traumatic brain injury. Yundt KD, et al. **Crit Care Clin** 1997 Jan;13(1):163-84 (85 ref.)

Relevant limitations of near-infrared spectroscopy [letter; comment] Cruz J. **Crit Care Med** 1997 Mar;25(3):555-6. Comment on: Crit Care Med 1996 Aug;24(8):1334-8.

Spatial and temporal changes in the insulin-like growth factor (IGF) axis indicate autocrine/paracrine actions of IGF-I within wounds of the rat brain. Walter HJ, et al. **Endocrinology** 1997 Jul;138(7):3024-34

Analysis of very early jugular bulb oximetry data after severe head injury: implications for the emergency management? De Deyne C, et al. **Eur J Emerg Med** 1996 Jun;3(2):69-72

Leukemia inhibitory factor is expressed in astrocytes following cortical brain injury. Banner LR, et al. **Exp Neurol** 1997 Sep;147(1):1-9

Time course of changes in lactate and free fatty acids after experimental brain injury and relationship to morphologic damage. Dhillon HS, et al. **Exp Neurol** 1997 Jul; 146(1):240-9

Regulation by interleukin-1beta of formation of a line of delimiting astrocytes following prenatal trauma to the brain of the mouse. Scripter JL, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):329-41

Changes of biological reducing activity in rat brain following closed head injury: a cyclic voltammetry study in normal and heat-acclimated rats. Beit-Yannai E, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):273-9

Assessment of cerebral blood flow and CO2 reactivity after controlled cortical impact by perfusion magnetic resonance imaging using arterial spin-labeling in rats. Forbes ML, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):865-74

Neurochemical mechanisms in brain injury and treatment: a review. Novack TA, et al. **J Clin Exp Neuropsychol** 1996 Oct;18(5):685-706 (192 ref.)

Expression of endothelial adhesion molecules and recruitment of neutrophils after traumatic brain injury in rats. Carlos TM, et al. **J Leukoc Biol** 1997 Mar;61(3):279-85

S-adenosylmethionine decarboxylase activity is decreased in the rat cortex after traumatic brain injury. Henley CM, et al. **J Neurochem** 1997 Jul;69(1):259-65

Delayed phospholipid degradation in rat brain after traumatic brain injury. Homayoun P, et al. **J Neurochem** 1997 Jul; 69(1):199-205

mu-calpain activation and calpain-mediated cytoskeletal proteolysis following traumatic brain injury. Kampfl A, et al. **J Neurochem** 1996 Oct;67(4):1575-83

Cold-injury of the cerebral cortex: immunolocalization of cellular proteins and blood-brain barrier permeability studies. Nag S. **J Neuropathol Exp Neurol** 1996 Aug; 55(8):880-8

Prolonged calpain-mediated spectrin breakdown occurs regionally following experimental brain injury in the rat. Saatman KE, et al. **J Neuropathol Exp Neurol** 1996 Jul; 55(7):850-60

Local cerebral glucose metabolism in patients with long-term behavioral and cognitive deficits following mild traumatic brain injury. Gross H, et al. **J Neuropsychiatry Clin Neurosci** 1996 Summer;8(3):324-34

A reliable and sensitive enzyme immunoassay method for measuring 8-isoprostaglandin F2 alpha: a marker for lipid peroxidation after experimental brain injury. Hoffman SW, et al. **J Neurosci Methods** 1996 Oct;68(2):133-6

Cell attachment to frozen sections of injured adult mouse brain: effects of tenascin antibody and lectin perturbation of wound-related extracellular matrix molecules. Laywell ED, et al. **J Neurosci Methods** 1996 Jun;66(2):99-108

Chemokine expression in rat stab wound brain injury. Ghirnikar RS, et al. **J Neurosci Res** 1996 Dec 15; 46(6):727-33

Vascular endothelial growth factor (vascular permeability factor) expression in injured rat brain. Papavassiliou E, et al. **J Neurosci Res** 1997 Aug 15;49(4):451-60

Cerebral hyperglycolysis following severe traumatic brain injury in humans: a positron emission tomography study. Bergsneider M, et al. **J Neurosurg** 1997 Feb;86(2):241-51

Serial S-100 protein serum measurements related to early magnetic resonance imaging after minor head injury. Case report. Ingebrigtsen T, et al. **J Neurosurg** 1996 Nov; 85(5):945-8

Attenuation of acute and chronic damage following traumatic brain injury in copper, zinc-superoxide dismutase transgenic mice. Mikawa S, et al. **J Neurosurg** 1996 Nov; 85(5):885-91

Extracellular release of serotonin following fluid-percussion brain injury in rats. Busto R, et al. **J Neurotrauma** 1997 Jan;14(1):35-42

Acute alterations in [Ca2+]i in NG108-15 cells subjected to high strain rate deformation and chemical hypoxia: an in vitro model for neural trauma. Cargill RS 2nd, et al. **J Neurotrauma** 1996 Jul;13(7):395-407

Glut1 glucose transporter activity in human brain injury. Cornford EM, et al. **J Neurotrauma** 1996 Sep;13(9):523-36

Depletion of choline acetyltransferase activity but preservation of M1 and M2 muscarinic receptor binding sites in temporal cortex following head injury: a preliminary human postmortem study. Dewar D, et al. **J Neurotrauma** 1996 Apr;13(4):181-7

Regional generation of leukotriene C4 after experimental brain injury in anesthetized rats. Dhillon HS, et al. **J Neurotrauma** 1996 Dec;13(12):781-9

Activation of ornithine decarboxylase and accumulation of putrescine after traumatic brain injury. Henley CM, et al. **J Neurotrauma** 1996 Sep;13(9):487-96

Mechanisms of calpain proteolysis following traumatic brain injury: implications for pathology and therapy: implications

for pathology and therapy: a review and update. Kampfl A, et al. **J Neurotrauma** 1997 Mar;14(3):121–34 (136 ref.)
An in vitro model of traumatic neuronal injury: loading rate–dependent changes in acute cytosolic calcium and lactate dehydrogenase release. Laplaca MC, et al. **J Neurotrauma** 1997 Jun;14(6):355–68
Immunohistochemical study of calpain–mediated breakdown products to alpha–spectrin following controlled cortical impact injury in the rat. Newcomb JK, et al. **J Neurotrauma** 1997 Jun;14(6):369–83
Reactive astrocytes in acute stage after experimental brain injury: relationship to extravasated plasma protein and expression of heat shock protein. Okimura Y, et al. **J Neurotrauma** 1996 Jul;13(7):385–93
Metabolic quantification of lesion volume following experimental traumatic brain injury in the rat. Perri BR, et al. **J Neurotrauma** 1997 Jan;14(1):15–22
Whole body metabolic responses to brain trauma in the rat. Roe SY, et al. **J Neurotrauma** 1997 Jun;14(6):399–408
High–resolution 1H NMR spectroscopy following experimental brain trauma. Rubin Y, et al. **J Neurotrauma** 1997 Jul;14(7):441–9
Intercellular adhesion molecule–1 expression on glia following brain injury: participation of interleukin–1 beta [published erratum appears in J Neurotrauma 1997 Feb;14(2):119] Shibayama M, et al. **J Neurotrauma** 1996 Dec;13(12):801–8
Mitochondrial dysfunction and calcium perturbation induced by traumatic brain injury. Xiong Y, et al. **J Neurotrauma** 1997 Jan;14(1):23–34
Metabolic consequences of acute brain trauma: is there a role for PET? [editorial; comment] Alavi A, et al. **J Nucl Med** 1996 Jul;37(7):1170–2. Comment on: J Nucl Med 1996 Jul;37(7):1166–70.
Production of tumor necrosis factor–alpha and interleukin–1beta by human cerebral microvascular endothelium after percussive trauma. Gourin CG, et al. **J Trauma** 1997 Jun;42(6):1101–7
Arterial–jugular vein free amino acid levels in patients with head injuries: important role of glutamine in cerebral nitrogen metabolism. Petersen SR, et al. **J Trauma** 1996 Oct;41(4):687–94; discussion 694–5
Apolipoprotein E epsilon4 associated with chronic traumatic brain injury in boxing. Jordan BD, et al. **JAMA** 1997 Jul 9;278(2):136–40
Laminins in the adult and aged brain. Jucker M, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):209–18 (44 ref.)
Progesterone protects against lipid peroxidation following traumatic brain injury in rats. Roof RL, et al. **Mol Chem Neuropathol** 1997 May;31(1):1–11
Production of cytokines following brain injury: beneficial and deleterious for the damaged tissue. Morganti–Kossman MC, et al. **Mol Psychiatry** 1997 Mar;2(2):133–6
Beta AP deposition and head trauma. Adle–Biassette H, et al. **Neurobiol Aging** 1996 May–Jun;17(3):415–9
Complement and clusterin in the injured nervous system. Törnqvist E, et al. **Neurobiol Aging** 1996 Sep–Oct; 17(5):695–705
Multiparametric continuous monitoring of brain metabolism and substrate delivery in neurosurgical patients. Zauner A, et al. **Neurol Res** 1997 Jun;19(3):265–73
Injury induces presenilin–1 gene expression in mouse brain. Cribbs DH, et al. **Neuroreport** 1996 Jul 29;7(11):1773–6
Hypoxia potentiates traumatic brain injury–induced expression of c–fos in rats. Dave JR, et al. **Neuroreport** 1997 Jan 20;8(2):395–8
Liposome–mediated BDNF cDNA transfer in intact and injured rat brain. Iwamoto Y, et al. **Neuroreport** 1996 Jan 31;7(2):609–12
Expression of serine/threonine kinase receptors in traumatic brain injury. Lewén A, et al. **Neuroreport** 1997 Jan 20; 8(2):475–9
Co–expression of APP with cNOS but not iNOS after cortical injury in rat. Lüth HJ, et al. **Neuroreport** 1997 Jul 7;8(9–10):2321–4
Glycerol as a marker for post–traumatic membrane phospholipid degradation in rat brain. Marklund N, et al. **Neuroreport** 1997 Apr 14;8(6):1457–61
MK–801 inhibits the cortical increase in IGF–1, IGFBP–2 and IGFBP–4 expression following trauma. Nordqvist AC, et al. **Neuroreport** 1997 Jan 20;8(2):455–60
Strong induction of activin expression after hippocampal lesion. Tretter YP, et al. **Neuroreport** 1996 Jul 29; 7(11):1819–23
A calpain inhibitor attenuates cortical cytoskeletal protein loss after experimental traumatic brain injury in the rat. Posmantur R, et al. **Neuroscience** 1997 Apr;77(3):875–88
Reduced evoked release of acetylcholine in the rodent hippocampus following traumatic brain injury. Dixon CE, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):679–86
The safety, tolerability, and pharmacokinetics of fosphenytoin after intramuscular and intravenous administration in neurosurgery patients. Boucher BA, et al. **Pharmacotherapy** 1996 Jul–Aug;16(4):638–45
Activation of c–fos in the brain. Herrera DG, et al. **Prog Neurobiol** 1996 Oct;50(2–3):83–107 (265 ref.)
The heat shock stress response after brain lesions: induction of 72 kDa heat shock protein (cell types involved, axonal transport, transcriptional regulation) and protein synthesis inhibition. Planas AM, et al. **Prog Neurobiol** 1997 Apr; 51(6):607–36 (256 ref.)
Temporal and regional profiles of cytoskeletal protein accumulation in the rat brain following traumatic brain injury. Kanayama G, et al. **Psychiatry Clin Neurosci** 1997 Jun;51(3):157–65
Epilepsy and exacerbation of brain injury in mice lacking the glutamate transporter GLT–1. Tanaka K, et al. **Science** 1997 Jun 13;276(5319):1699–702
Oxidative stress following traumatic brain injury in rats. Awasthi D, et al. **Surg Neurol** 1997 Jun;47(6):575–81; discussion 581–2
Frontal cortex ablation reversibly decreases striatal zif/268 and junB expression: temporal correspondence with sensory neglect and its spontaneous recovery. Vargo JM, et al. **Synapse** 1996 Apr;22(4):291–303
Bright and dark sides of nitric oxide in ischemic brain injury. Iadecola C. **Trends Neurosci** 1997 Mar;20(3):132–9 (73 ref.)
[The effect of substances with nootropic activity on oxidative phosphorylation in brain mitochondria in acute craniocerebral trauma] Novikov VE, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):59–61 (Eng. Abstr.) **(Rus)**
[Status of bioenergetic processes in brain of immature rats during the dynamics of cranio–cerebral trauma] Novikov VE, et al. **Vopr Med Khim** 1996 Oct–Dec;42(4):309–11 (Eng. Abstr.) **(Rus)**
[Chemiluminescent study of free radical lipid peroxidation in the rabbit brain after cranio–cerebral trauma] Promyslov MSh, et al. **Vopr Med Khim** 1997 Jul–Aug;43(4):208–11 (Eng. Abstr.) **(Rus)**

MORTALITY

Fatal head injuries in ground–level falls. Hartshorne NJ, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):258–64
Survival and functional outcome of children following severe traumatic brain injury [editorial; comment] Matthews DJ. **Crit Care Med** 1997 Aug;25(8):1272. Comment on: Crit Care Med 1997 Aug;25(8):1396–401.
Survival and functional outcome of children requiring endotracheal intubation during therapy for severe traumatic brain injury [see comments] Thakker JC, et al. **Crit Care Med** 1997 Aug;25(8):1396–401. Comment in: Crit Care Med 1997 Aug;25(8):1272.
Multiple gunshot suicides: potential for physical activity and medico–legal aspects. Karger B, et al. **Int J Legal Med** 1997;110(4):188–92 (34 ref.)
Pediatric head injuries and deaths from bicycling in the United States. Sosin DM, et al. **Pediatrics** 1996 Nov; 98(5):868–70

NURSING

Management of intracranial hemodynamics in the adult: a research analysis of head positioning and recommendations for clinical practice and future research. Simmons BJ. **J Neurosci Nurs** 1997 Feb;29(1):44–9 (31 ref.)

PATHOLOGY

Altered beta–APP metabolism after head injury and its relationship to the aetiology of Alzheimer's disease. Graham DI, et al. **Acta Neurochir Suppl (Wien)** 1996; 66:96–102 (53 ref.)
Neuroprotective efficacy of microvascularly–localized versus brain–penetrating antioxidants. Hall ED, et al. **Acta Neurochir Suppl (Wien)** 1996;66:107–13 (23 ref.)
The Kluver–Bucy syndrome. Gościński I, et al. **Acta Neurochir (Wien)** 1997;139(4):303–6
Fluid–attenuated inversion recovery (FLAIR) in a patient with parasagittal white matter shearing injury. Kawamoto H, et al. **Acta Neurochir (Wien)** 1997;139(6):566–8
Post–traumatic bilateral diffuse cerebral swelling. Kazan S, et al. **Acta Neurochir (Wien)** 1997;139(4):295–301; discussion 301–2
The relationship between cortical injury and brain tumour. Report of two cases and review of the literature. Stendel R, et al. **Acta Neurochir (Wien)** 1997;139(3):208–14 (52 ref.)
Chronic histopathological consequences of fluid–percussion brain injury in rats: effects of post–traumatic hypothermia. Bramlett HM, et al. **Acta Neuropathol (Berl)** 1997 Feb; 93(2):190–9
Temporal and spatial characterization of neuronal injury following lateral fluid–percussion brain injury in the rat. Hicks R, et al. **Acta Neuropathol (Berl)** 1996;91(3):236–46
Up–regulation of intercellular adhesion molecule 1 in cerebral microvessels after cortical contusion trauma in a rat model. Isaksson J, et al. **Acta Neuropathol (Berl)** 1997 Jul; 94(1):16–20
Postmortem cranial MRI and autopsy correlation in suspected child abuse. Hart BL, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):217–24
Three–dimensional visualization and image processing in the evaluation of patterned injuries. The AFIP/UNC experience in the Rodney King case. Oliver WR, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):1–10
Cerebral infarction and intracranial arterial dissection in closed head injury. Rutherfoord GS, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):53–7
Ultrastructural changes of macroglial cells in the rat brain following an exposure to a non–penetrative blast. Kaur C, et al. **Ann Acad Med Singapore** 1997 Jan;26(1):27–9
Axotomy as an experimental model of neuronal injury and cell death. Koliatsos VE, et al. **Brain Pathol** 1996 Oct; 6(4):447–65 (164 ref.)
Are the pathobiological changes evoked by traumatic brain injury immediate and irreversible? Povlishock JT, et al. **Brain Pathol** 1995 Oct;5(4):415–26 (69 ref.)
Cellular responses to experimental brain injury. Raghupathi R, et al. **Brain Pathol** 1995 Oct;5(4):437–42 (51 ref.)
Basic fibroblast growth factor (bFGF) injection activates the glial reaction in the injured adult rat brain. Eclancher F, et al. **Brain Res** 1996 Oct 21;737(1–2):201–14
Characterization of a distinct set of intra–axonal ultrastructural changes associated with traumatically induced alteration in axolemmal permeability. Pettus EH, et al. **Brain Res** 1996 May 25;722(1–2):1–11
Riluzole reduces brain lesions and improves neurological function in rats after a traumatic brain injury. Wahl F, et al. **Brain Res** 1997 May 9;756(1–2):247–55
Evaluation of learning and memory dysfunction and histological findings in rats with chronic stage contusion and diffuse axonal injury. Yamaki T, et al. **Brain Res** 1997 Mar 28;752(1–2):151–60
The affinity of lipid–coated microbubbles for maturing brain injury sites. Ho SY, et al. **Brain Res Bull** 1997;43(6):543–9
Magnetic resonance imaging and pathologic studies on lateral fluid percussion injury as a model of focal brain injury in rats. Qian L, et al. **Bull Tokyo Med Dent Univ** 1996 Sep;43(3):53–66
Failure to respond autonomically to anticipated future outcomes following damage to prefrontal cortex. Bechara A, et al. **Cereb Cortex** 1996 Mar–Apr;6(2):215–25
Recurrent seizures in the developing brain are not harmful. Camfield PR. **Epilepsia** 1997 Jun;38(6):735–7
Recurrent seizures in the developing brain are harmful. Wasterlain CG. **Epilepsia** 1997 Jun;38(6):728–34 (30 ref.)
Adult nestin–expressing subependymal cells differentiate to astrocytes in response to brain injury. Holmin S, et al. **Eur J Neurosci** 1997 Jan;9(1):65–75
Mechanical lesions of the fimbria fornix in rat brain studied by 1H–magnetic resonance imaging. Evidence for long–lasting dynamic alterations in the ipsilateral ventricular system. Dijkhuizen RM, et al. **Eur Neuropsychopharmacol** 1996 Mar;6(1):21–7
Capability for reactive gliosis develops prenatally in the diencephalon but not in the cortex of rats. Ajtai BM, et al. **Exp Neurol** 1997 Jul;146(1):151–8
Time course of changes in lactate and free fatty acids after experimental brain injury and relationship to morphologic damage. Dhillon HS, et al. **Exp Neurol** 1997 Jul; 146(1):240–9
The antioxidant enzymes glutathione peroxidase and catalase increase following traumatic brain injury in the rat. Goss JR, et al. **Exp Neurol** 1997 Jul;146(1):291–4
Fluid percussion injury causes disruption of the septohippocampal pathway in the rat. Leonard JR, et al. **Exp Neurol** 1997 Feb;143(2):177–87
A subpopulation of reactive astrocytes at the immediate site of cerebral cortical injury. Yang HY, et al. **Exp Neurol** 1997 Jul;146(1):199–205
Backspatter from experimental close–range shots to the head. II. Microbackspatter and the morphology of bloodstains. Karger B, et al. **Int J Legal Med** 1997;110(1):27–30
Auditory brainstem responses in infants and children with anoxic brain damage due to near–suffocation or near–drowning. Kaga K, et al. **Int J Pediatr Otorhinolaryngol** 1996 Aug;36(3):231–9
What's new in the diagnosis of head injury? Geddes JF. **J Clin Pathol** 1997 Apr;50(4):271–4
A common morphological response of astrocytes to various injuries: "dark" astrocytes. A light and electron microscopic analysis. Tóth Z, et al. **J Hirnforsch** 1997;38(2):173–86
PK ('peripheral benzodiazepine')—binding sites in the CNS indicate early and discrete brain lesions: microautoradiographic detection of [3H]PK11195 binding to activated microglia. Banati RB, et al. **J Neurocytol** 1997 Feb;26(2):77–82
Regional heterogeneity in the response of astrocytes following traumatic brain injury in the adult rat. Hill SJ, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1221–9
Cold–injury of the cerebral cortex: immunolocalization of cellular proteins and blood–brain barrier permeability studies. Nag S. **J Neuropathol Exp Neurol** 1996 Aug; 55(8):880–8
Impact acceleration injury in the rat: evidence for focal axolemmal change and related neurofilament sidearm alteration. Povlishock JT, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):347–59
Characterization of diffuse axonal pathology and selective hippocampal damage following inertial brain trauma in the pig. Smith DH, et al. **J Neuropathol Exp Neurol** 1997 Jul; 56(7):822–34
Cd(2+)–induced injury in CNS white matter. Fern R, et al. **J Neurophysiol** 1996 Nov;76(5):3264–73
Ventromedial temporal lobe anatomy, with comments on Alzheimer's disease and temporal injury. Van Hoesen GW. **J Neuropsychiatry Clin Neurosci** 1997 Summer;9(3):331–41 (55 ref.)
Three cases of enduring memory impairment after bilateral damage limited to the hippocampal formation. Rempel–Clower NL, et al. **J Neurosci** 1996 Aug 15; 16(16):5233–55
Magnetic resonance imaging–monitored acute blood–brain barrier changes in experimental traumatic brain injury. Barzó P, et al. **J Neurosurg** 1996 Dec;85(6):1113–21
Paradoxical effects of acute ethanolism in experimental brain

injury. Kelly DF, et al. **J Neurosurg** 1997 May;86(5):876–82
Post-traumatic acute subdural haematoma of the posterior fossa extending toward the cerebello-pontine region. Report of a case. Servadei F, et al. **J Neurosurg Sci** 1995 Sep;39(3):187–90
Detection of acute pathologic changes following experimental traumatic brain injury using diffusion-weighted magnetic resonance imaging. Alsop DC, et al. **J Neurotrauma** 1996 Sep;13(9):515–21
Lesion volume, injury severity, and thalamic integrity following head injury. Anderson CV, et al. **J Neurotrauma** 1996 Jan;13(1):35–40
Lesion volume, injury severity, and thalamic integrity following head injury. Anderson CV, et al. **J Neurotrauma** 1996 Feb;13(2):59–65
Neuronal cell loss in the CA3 subfield of the hippocampus following cortical contusion utilizing the optical disector method for cell counting. Baldwin SA, et al. **J Neurotrauma** 1997 Jun;14(6):385–98
Antibodies against Mac-1 attenuate neutrophil accumulation after traumatic brain injury in rats. Clark RS, et al. **J Neurotrauma** 1996 Jun;13(6):333–41
Early neuropathologic effects of mild or moderate hypoxemia after controlled cortical impact injury in rats. Clark RS, et al. **J Neurotrauma** 1997 Apr;14(4):179–89
Purkinje cell vulnerability to mild traumatic brain injury. Fukuda K, et al. **J Neurotrauma** 1996 May;13(5):255–66
A mechanistic analysis of nondisruptive axonal injury: a review. Maxwell WL, et al. **J Neurotrauma** 1997 Jul; 14(7):419–40 (112 ref.)
Metabolic quantification of lesion volume following experimental traumatic brain injury in the rat. Perri BR, et al. **J Neurotrauma** 1997 Jan;14(1):15–22
The effect of lesion volume on cerebral vasomotor tone after focal brain injury and shock. Schmoker JD, et al. **J Neurotrauma** 1996 Feb;13(2):67–78
Quantitative MRI of the gray-white matter distribution in traumatic brain injury. Thatcher RW, et al. **J Neurotrauma** 1997 Jan;14(1):1–14
Magnetic resonance imaging: utilization in the management of central nervous system trauma. Nichols JS, et al. **J Trauma** 1997 Mar;42(3):520–3; discussion 523–4
Neuropathological sequelae of traumatic brain injury: relationship to neurochemical and biomechanical mechanisms. McIntosh TK, et al. **Lab Invest** 1996 Feb; 74(2):315–42 (218 ref.)
beta-Amyloid converts an acute phase injury response to chronic injury responses. Cotman CW, et al. **Neurobiol Aging** 1996 Sep–Oct;17(5):723–31 (96 ref.)
Differential susceptibility of senile and lesion-induced astrogliosis to phosphatidylserine. Jeglíński W, et al. **Neurobiol Aging** 1997 Jan–Feb;18(1):81–6
Cytokines and perinatal brain injury. Silverstein FS, et al. **Neurochem Int** 1997 Apr–May;30(4–5):375–83 (56 ref.)
Magnetic resonance imaging of sequelae of temporal lobe herniation secondary to traumatic acute subdural hematoma: Kernohan's notch and posterior cerebral artery territory infarctions contralateral to the supratentorial lesion--case report. Namura S, et al. **Neurol Med Chir (Tokyo)** 1997 Jan;37(1):32–5
Internal carotid-posterior communicating artery aneurysm manifesting as an unusual ocular motor paresis after minor head trauma--case report. Park-Matsumoto YC, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):181–3
Ataxic hemiparesis and hemiageusia from an isolated post-traumatic midbrain lesion. Johnson TM. **Neurology** 1996 Nov;47(5):1348–9
Forensic-neuropathological aspects of brain injuries in child abuse. Bratzke H. **Neuropathol Appl Neurobiol** 1996 Dec; 22(6):513–5
Neurofibrillary tangles, but not Alzheimer-type pathology, in a young boxer. Geddes JF, et al. **Neuropathol Appl Neurobiol** 1996 Feb;22(1):12–6
Cerebral cortical nerve cells in extracranial arterial diversion. Fateev IN. **Neurosci Behav Physiol** 1996 Jul–Aug; 26(4):383–6
State of the cerebral cortex in severe penetrating gunshot injuries to the skull and brain (experimental studies). Novozhilova AP, et al. **Neurosci Behav Physiol** 1997 Mar–Apr;27(2):183–8
Cellular response in the cerebellum after midline traumatic brain injury in the rat. Mautes AE, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):95–8
Neuronal injury in experimental status epilepticus in the rat: role of hypoxia. Sasahira M, et al. **Neurosci Lett** 1997 Feb 7;222(3):207–9
Anticoagulant factor protein S inhibits the proliferation of rat astrocytes after injury. Tomobe YI, et al. **Neurosci Lett** 1996 Aug 16;214(1):57–60
Adenovirus-mediated over-expression of interleukin-1 receptor antagonist reduces susceptibility to excitotoxic brain injury in perinatal rats. Hagan P, et al. **Neuroscience** 1996 Dec;75(4):1033–45
Apoptosis mediates cell death following traumatic injury in rat hippocampal neurons. Shah PT, et al. **Neuroscience** 1997 Aug;79(4):999–1004
Brain injury after perinatal hypoxia-ischemia is exacerbated in copper/zinc superoxide dismutase transgenic mice. Ditelberg JS, et al. **Pediatr Res** 1996 Feb;39(2):204–8
Imaging brain injury using time-resolved near infrared light scanning. Van Houten JP, et al. **Pediatr Res** 1996 Mar; 39(3):470–6
Cellular and molecular correlates to plasticity during recovery from injury in the developing mammalian brain. Ide CF, et al. **Prog Brain Res** 1996;108:365–77 (21 ref.)
[A lateral fluid percussion model for the experimental severe brain injury and a morphological study in the rats] Wang YJ, et al. **Nippon Ika Daigaku Zasshi** 1997 Apr;64(2):172–5 (Eng. Abstr.) **(Jpn)**
[Clinicopathological studies of craniocerebral gunshot injuries] Shimura T, et al. **No Shinkei Geka** 1997 Jul; 25(7):607–12 (Eng. Abstr.) **(Jpn)**
[The cerebral cortex in severe penetrating gunshot craniocerebral trauma (an experimental study)] Novozhilova AP, et al. **Morfologiia** 1996;109(2):17–22 (Eng. Abstr.) **(Rus)**
[The clinico-morphological characteristics and expert assessment of intracranial parenchymatous hemorrhages in craniocerebral trauma] Pashinian GA, et al. **Sud Med Ekspert** 1997 Jul–Sep;40(3):3–6 (Eng. Abstr.) **(Rus)**
[A macro- and microscopic study of the status of the deep and median structures of the lymph circulatory system in craniocerebral trauma] Dobrovol'skiĭ GF, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr–Jun; (2):25–9 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Magnetic resonance imaging observations of blood-brain-barrier permeability in an animal model of brain injury. Ford JC, et al. **Acad Radiol** 1997 Feb; 4(2):115–26
Mechanisms of Secondary Brain Damage. Proceedings of the Vth International Symposium. Mauls, Italy, 1995. **Acta Neurochir Suppl (Wien)** 1996;66:v–vi, 1–121
"Small volume resuscitation" as treatment of cerebral blood flow disturbances and increased ICP in trauma and ischemia. Kempski O, et al. **Acta Neurochir Suppl (Wien)** 1996;66:114–7
Quantitative cerebral blood flow and metabolism determination in the first 48 hours after severe head injury with a new dynamic SPECT device. Della Corte F, et al. **Acta Neurochir (Wien)** 1997;139(7):636–41; discussion 641–2
Cerebral lactate production in relation to intracranial pressure, cranial computed tomography findings, and outcome in patients with severe head injury. Murr R, et al. **Acta Neurochir (Wien)** 1996;138(8):928–36; discussion 936–7
Arterio-jugular differences of oxygen (AVDO2) for bedside assessment of CO2-reactivity and autoregulation in the acute phase of severe head injury. Sahuquillo J, et al. **Acta Neurochir (Wien)** 1996;138(4):435–44
Prognostic factors in severely head injured adult patients with epidural haematoma's. Servadei F. **Acta Neurochir (Wien)** 1997;139(4):273–8 (44 ref.)
Prognostic factors in severely head injured adult patients with acute subdural haematoma's. Servadei F. **Acta Neurochir (Wien)** 1997;139(4):279–85 (40 ref.)
Chronic histopathological consequences of fluid-percussion brain injury in rats: effects of post-traumatic hypothermia. Bramlett HM, et al. **Acta Neuropathol (Berl)** 1997 Feb; 93(2):190–9
Three-dimensional autoradiographic image-processing strategies for the study of brain injury and plasticity. Ginsberg MD, et al. **Adv Neurol** 1997;73:239–50 (24 ref.)
Use-dependent structural events in recovery of function. Schallert T, et al. **Adv Neurol** 1997;73:229–38 (32 ref.)
Extracellular space volume and geometry of the rat brain after ischemia and central injury. Syková E. **Adv Neurol** 1997;73:121–35 (30 ref.)
Spontaneous recovery rate in traumatic sixth-nerve palsy. Mutyala S, et al. **Am J Ophthalmol** 1996 Dec;122(6):898–9
Single-photon-emission computed tomography (SPECT) in neurotologic assessment: a preliminary report. Sataloff RT, et al. **Am J Otol** 1996 Nov;17(6):909–16
Influence of brain injury on vasopressin-induced pial artery vasodilation: role of superoxide anion. Armstead WM. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1272–8
Traumatic brain injury does not alter cerebral artery contractility. Bukoski RD, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 2):H1406–11
Uncoupling of local cerebral glucose metabolism and blood flow after acute fluid-percussion injury in rats. Ginsberg MD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2859–68
A solution to monitoring the electrocardiograph in patients with extensive burn injury [letter] Ravindran RS. **Anesthesiology** 1997 Sep;87(3):711–2
Sleep and pain complaints in symptomatic traumatic brain injury and neurologic populations [see comments] Beetar JT, et al. **Arch Phys Med Rehabil** 1996 Dec;77(12):1298–302 . Comment in: Arch Phys Med Rehabil 1997 Apr;78(4):451.
The agitated brain injured patient. Part 2: Pathophysiology and treatment. Mysiw WJ, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):213–20 (121 ref.)
Motor fitness in children and adolescents with traumatic brain injury. Rossi C, et al. **Arch Phys Med Rehabil** 1996 Oct; 77(10):1062–5
Alcohol use after traumatic brain injury: concordance of patients' and relatives' reports. Sander AM, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):138–42
Traumatic brain injury of the forelimb and hindlimb sensorimotor areas in the rat: physiological, histological and behavioral correlates. Soblosky JS, et al. **Behav Brain Res** 1996 Sep;79(1–2):79–92
Effects of alfentanil on cerebral haemodynamics in an experimental model of traumatic brain injury. Souter MJ, et al. **Br J Anaesth** 1997 Jul;79(1):97–102
The neuronal cytoskeleton: an insight for neurosurgeons. Fitzpatrick MO, et al. **Br J Neurosurg** 1996 Oct;10(5):483–7 (57 ref.)
Basal ganglia-internal capsule low density lesions in children with mild head injury. Muthukumar N. **Br J Neurosurg** 1996 Aug;10(4):391–3
Kinematic analysis of movement imitation in apraxia. Hermsdörfer J, et al. **Brain** 1996 Oct;119 (Pt 5):1575–86
Divided and focused attention in patients with lesion of the prefrontal cortex. Godefroy O, et al. **Brain Cogn** 1996 Mar; 30(2):155–74
Developmental change in spatial grouping activity among children with early focal brain injury: evidence from a modeling task. Stiles J, et al. **Brain Cogn** 1996 Jun; 31(1):46–62
Effect of stimulus number, target-to-distractor ratio, and motor speed on visual spatial search quality following traumatic brain injury. Geldmacher DS, et al. **Brain Inj** 1997 Jan;11(1):59–66
Heart-rate variability in chronic traumatic brain injury. King ML, et al. **Brain Inj** 1997 Jun;11(6):445–53
Analysing discourse in the traumatic brain injury population: telephone interactions with different communication partners. Togher L, et al. **Brain Inj** 1997 Mar;11(3):169–89
Reliability for a walk/run test to estimate aerobic capacity in a brain-injured population. Vitale AE, et al. **Brain Inj** 1997 Jan;11(1):67–76
Functional outcome after violence related traumatic brain injury. Zafonte RD, et al. **Brain Inj** 1997 Jun;11(6):403–7
Are the pathobiological changes evoked by traumatic brain injury immediate and irreversible? Povlishock JT, et al. **Brain Pathol** 1995 Oct;5(4):415–26 (69 ref.)
Effects of muscarinic receptor antagonism on the phosphatidylinositol bisphosphate signal transduction pathway after experimental brain injury. Lyeth BG, et al. **Brain Res** 1996 Dec 2;742(1–2):63–70
Brain injury after hypoxia-ischemia in newborn rats: relationship to extracellular levels of excitatory amino acids and cysteine. Puka-Sundvall M, et al. **Brain Res** 1997 Mar 7;750(1–2):325–8
The effects of traumatic brain injury on inhibition in the hippocampus and dentate gyrus. Reeves TM, et al. **Brain Res** 1997 May 16;757(1):119–32
Differential expression of the small chondroitin/dermatan sulfate proteoglycans decorin and biglycan after injury of the adult rat brain. Stichel CC, et al. **Brain Res** 1995 Dec 18;704(2):263–74
Riluzole reduces brain lesions and improves neurological function in rats after a traumatic brain injury. Wahl F, et al. **Brain Res** 1997 May 9;756(1–2):247–55
Reduced sensorimotor reactivity following traumatic brain injury in rats. Wiley JL, et al. **Brain Res** 1996 Apr 15; 716(1–2):47–52
Survival of Cajal-Retzius cells after cortical lesions in newborn mice: a possible role for Cajal-Retzius cells in brain repair. Supèr H, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):9–14
Childhood traumatic brain injury: neuropsychological status at the time of hospital discharge. Bowen JM, et al. **Dev Med Child Neurol** 1997 Jan;39(1):17–25
Brain injury-induced enhanced limbic epileptogenesis: anatomical and physiological parallels to an animal model of temporal lobe epilepsy. Coulter DA, et al. **Epilepsy Res** 1996 Dec;26(1):81–91
The effect of suxamethonium on intracranial pressure and cerebral perfusion pressure in patients with severe head injuries following blunt trauma. Brown MM, et al. **Eur J Anaesthesiol** 1996 Sep;13(5):474–7
Evidence for the involvement of the mammillary bodies and cingulum bundle in allocentric spatial processing by rats. Neave N, et al. **Eur J Neurosci** 1997 May;9(5):941–55
Involvement of activation of dopaminergic neuronal system in learning and memory deficits associated with experimental mild traumatic brain injury. Tang YP, et al. **Eur J Neurosci** 1997 Aug;9(8):1720–7
Ocular exploration of space as a function of neck proprioceptive and vestibular input--observations in normal subjects and patients with spatial neglect after parietal lesions. Karnath HO, et al. **Exp Brain Res** 1996 May;109(2):333–42
Nerve growth factor attenuates cholinergic deficits following traumatic brain injury in rats. Dixon CE, et al. **Exp Neurol** 1997 Aug;146(2):479–90
Synaptic remodeling and free radical formation after brain contusion injury in the rat. Jørgensen OS, et al. **Exp Neurol** 1997 Apr;144(2):326–38
Does astrocytic glycogen benefit axon function and survival in CNS white matter during glucose deprivation? Ransom BR, et al. **Glia** 1997 Sep;21(1):134–41 (53 ref.)
The effect of suction catheter insertion and tracheal stimulation in adults with severe brain injury. Brucia J, et al. **Heart Lung** 1996 Jul–Aug;25(4):295–303
Pattern of fetal urination in a brain-damaged fetus. Matsuguchi K, et al. **Int J Gynaecol Obstet** 1996 Nov; 55(2):163–4
Intracranial pressure dynamics in patients with acute brain damage. Ursino M, et al. **J Appl Physiol** 1997 Apr; 82(4):1270–82

Susceptibility of the injured rat brain to CNS oxygen toxicity. Kerem D. **J Basic Clin Physiol Pharmacol** 1996;7(1):11–22

Continuous multiparametric monitoring of brain activities following fluid–percussion injury in rats: preliminary results. Rogatsky G, et al. **J Basic Clin Physiol Pharmacol** 1996;7(1):23–43

Assessment of cerebral blood flow and CO2 reactivity after controlled cortical impact by perfusion magnetic resonance imaging using arterial spin–labeling in rats. Forbes ML, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):865–74

Working memory and supervisory control after severe closed–head injury. A study of dual task performance and random generation. Azouvi P, et al. **J Clin Exp Neuropsychol** 1996 Jun;18(3):317–37

Verbal learning subtypes in traumatic brain injury: a replication. Deshpande SA, et al. **J Clin Exp Neuropsychol** 1996 Dec;18(6):836–42

Very late outcome after focal wartime brain wounds. Newcombe F. **J Clin Exp Neuropsychol** 1996 Feb; 18(1):1–23 (93 ref.)

Event–related potentials in brain–injured patients with neuropsychological disorders: a review. Viggiano MP. **J Clin Exp Neuropsychol** 1996 Oct;18(5):631–47 (109 ref.)

Narrative skills following traumatic brain injury in children and adults. Biddle KR, et al. **J Commun Disord** 1996 Nov–Dec;29(6):447–68; quiz 468–9

Attentional factors in response time variability after traumatic brain injury: an ERP study. Segalowitz SJ, et al. **J Int Neuropsychol Soc** 1997 Mar;3(2):95–107

Mechanism of disinhibition after brain lesions. Starkstein SE, et al. **J Nerv Ment Dis** 1997 Feb;185(2):108–14 (36 ref.)

Post–traumatic stress disorder and head injury as a dual diagnosis: "islands" of memory as a mechanism. King NS. **J Neurol Neurosurg Psychiatry** 1997 Jan;62(1):82–4

Cytokines and adhesion molecules in stroke and related diseases. Kim JS. **J Neurol Sci** 1996 May;137(2):69–78 (129 ref.)

Role of vascular endothelial growth factor in blood–brain barrier breakdown and angiogenesis in brain trauma. Nag S, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):912–21

Effect of amantadine hydrochloride on symptoms of frontal lobe dysfunction in brain injury: case studies and review. Kraus MF, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):222–30

Activation of CPP32–like caspases contributes to neuronal apoptosis and neurological dysfunction after traumatic brain injury. Yakovlev AG, et al. **J Neurosci** 1997 Oct 1;17(19):7415–24

Role of endothelin–1 in astrocyte responses after acute brain damage. Hama H, et al. **J Neurosci Res** 1997 Mar 15; 47(6):590–602

Effect of prior receptor antagonism on behavioral morbidity produced by combined fluid percussion injury and entorhinal cortical lesion. Phillips LL, et al. **J Neurosci Res** 1997 Jul 15;49(2):197–206

A model of diffuse traumatic brain injury in the immature rat. Adelson PD, et al. **J Neurosurg** 1996 Nov;85(5):877–84

Role of endothelin in pial artery vasoconstriction and altered responses to vasopressin after brain injury. Armstead WM. **J Neurosurg** 1996 Nov;85(5):901–7

Cerebral perfusion pressure [letter; comment] Cruz J. **J Neurosurg** 1996 Aug;85(2):365–7. Comment on: J Neurosurg 1995 Dec;83(6):949–62.

Adverse effects of pentobarbital on cerebral venous oxygenation of comatose patients with acute traumatic brain swelling: relationship to outcome [see comments] Cruz J. **J Neurosurg** 1996 Nov;85(5):758–61. Comment in: J Neurosurg 1997 Jun;86(6):1070–2.

Cerebral blood flow and vasoresponsivity [letter] Cruz J. **J Neurosurg** 1997 Aug;87(2):335–6

Cerebral autoregulation following minor head injury [see comments] Jünger EC, et al. **J Neurosurg** 1997 Mar; 86(3):425–32. Comment in: J Neurosurg 1997 Sep;87(3):485–6.

Paradoxical effects of acute ethanolism in experimental brain injury. Kelly DF, et al. **J Neurosurg** 1997 May;86(5):876–82

Hyperemia following traumatic brain injury: relationship to intracranial hypertension and outcome. Kelly DF, et al. **J Neurosurg** 1996 Nov;85(5):762–71

Cerebral blood flow as a predictor of outcome following traumatic brain injury. Kelly DF, et al. **J Neurosurg** 1997 Apr;86(4):633–41

Monitoring of cerebral oxygenation in patients with severe head injuries: brain tissue PO2 versus jugular vein oxygen saturation. Kiening KL, et al. **J Neurosurg** 1996 Nov; 85(5):751–7

Monitoring of autoregulation using laser Doppler flowmetry in patients with head injury. Lam JM, et al. **J Neurosurg** 1997 Mar;86(3):438–45

Hemodynamically significant cerebral vasospasm and outcome after head injury: a prospective study. Lee JH, et al. **J Neurosurg** 1997 Aug;87(2):221–33

Moderate hypothermia in patients with severe head injury: cerebral and extracerebral effects [see comments] Metz C, et al. **J Neurosurg** 1996 Oct;85(4):533–41. Comment in: J Neurosurg 1997 May;86(5):911–4.

Brain tissue pressure gradients [letter; comment] Woischneck D, et al. **J Neurosurg** 1997 Jul;87(1):134. Comment on: J Neurosurg 1996 Apr;84(4):642–7.

Conventional multimodality monitoring and failure to detect ischemic cerebral blood flow. Andrews PJ, et al. **J Neurosurg Anesthesiol** 1996 Jul;8(3):220–6

Guidelines for cerebral perfusion pressure. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):693–7 (35 ref.)

Motor and cognitive functional deficits following diffuse traumatic brain injury in the immature rat. Adelson PD, et al. **J Neurotrauma** 1997 Feb;14(2):99–108

Lesion volume, injury severity, and thalamic integrity following head injury. Anderson CV, et al. **J Neurotrauma** 1996 Jan;13(1):35–40

Posttraumatic hyperemia in immature, mature, and aged rats: autoradiographic determination of cerebral blood flow. Biagas KV, et al. **J Neurotrauma** 1996 Apr;13(4):189–200

Secondary insults increase injury after controlled cortical impact in rats. Cherian L, et al. **J Neurotrauma** 1996 Jul; 13(7):371–83

L–arginine and superoxide dismutase prevent or reverse cerebral hypoperfusion after fluid–percussion traumatic brain injury. DeWitt DS, et al. **J Neurotrauma** 1997 Apr; 14(4):223–33

Laser–Doppler flowmetry measurements of subcortical blood flow changes after fluid percussion brain injury in rats. Long JB, et al. **J Neurotrauma** 1996 Mar;13(3):149–62

Riluzole, a novel neuroprotective agent, attenuates both neurologic motor and cognitive dysfunction following experimental brain injury in the rat. McIntosh TK, et al. **J Neurotrauma** 1996 Dec;13(12):767–80

Changes in local microvascular permeability and in the effect of intervention with 21–aminosteroid (Tirilazad) in a new experimental model of focal cortical injury in the rat. Mathew P, et al. **J Neurotrauma** 1996 Aug;13(8):465–72

Reduction of the neurological deficit in mice with traumatic brain injury by nitric oxide synthase inhibitors. Mesenge C, et al. **J Neurotrauma** 1996 Apr;13(4):209–14

Reduction of the neurological deficit in mice with traumatic brain injury by nitric oxide synthase inhibitors. Mésenge C, et al. **J Neurotrauma** 1996 Jan;13(1):11–6

Detection of impaired cerebral autoregulation using spectral analysis of intracranial pressure waves. Nichols JS, et al. **J Neurotrauma** 1996 Aug;13(8):439–56

Continuous measurement of changes in regional cerebral blood flow following cortical compression contusion trauma in the rat. Nilsson P, et al. **J Neurotrauma** 1996 Apr;13(4):201–7

Effects of the novel NMDA antagonists CP–98,113, CP–101,581 and CP–101,606 on cognitive function and regional cerebral edema following experimental brain injury in the rat. Okiyama K, et al. **J Neurotrauma** 1997 Apr;14(4):211–22

Mild pre– and posttraumatic hypothermia attenuates blood–brain barrier damage following controlled cortical impact injury in the rat. Smith SL, et al. **J Neurotrauma** 1996 Jan;13(1):1–9

HU–211, a nonpsychotropic cannabinoid, produces short– and long–term neuroprotection after optic nerve axotomy. Yoles E, et al. **J Neurotrauma** 1996 Jan;13(1):49–57

Zinc supplementation is associated with improved neurologic recovery rate and visceral protein levels of patients with severe closed head injury. Young B, et al. **J Neurotrauma** 1996 Jan;13(1):25–34

Cerebral hemodynamics and metabolism of severe diffuse brain injury measured by PET [see comments] Yamaki T, et al. **J Nucl Med** 1996 Jul;37(7):1166–70. Comment in: J Nucl Med 1996 Jul;37(7):1170–2.

Dense vitreous hemorrhages predict poor visual and neurological prognosis in infants with shaken baby syndrome. Matthews GP, et al. **J Pediatr Ophthalmol Strabismus** 1996 Jul–Aug;33(4):260–5

Arousal–modulated attention at four months as a function of intrauterine cocaine exposure and central nervous system injury. Karmel BZ, et al. **J Pediatr Psychol** 1996 Dec; 21(6):821–32

Diaspirin cross–linked hemoglobin resuscitation improves cerebral perfusion after head injury and shock. Chappell JE, et al. **J Trauma** 1996 Nov;41(5):781–8

Physiologic principles for volume regulation of a tissue enclosed in a rigid shell with application to the injured brain. Grände PO, et al. **J Trauma** 1997 May;42(5 Suppl):S23–31 (34 ref.)

Hypertonic/hyperoncotic saline attenuates microcirculatory disturbances after traumatic brain injury. Härtl R, et al. **J Trauma** 1997 May;42(5 Suppl):S41–7

Neuropathological sequelae of traumatic brain injury: relationship to neurochemical and biomechanical mechanisms. McIntosh TK, et al. **Lab Invest** 1996 Feb; 74(2):315–42 (218 ref.)

Inhibition of nitric oxide synthase potentiates hypertension and increases mortality in traumatically brain–injured rats. Lu YC, et al. **Mol Chem Neuropathol** 1997 Jan–Feb; 30(1–2):125–37

Effects of brain injury on college academic performance. Gerberich SG, et al. **Neuroepidemiology** 1997;16(1):1–14

Role of fibroblast growth factors in neural trauma. Cuevas P, et al. **Neurol Res** 1997 Jun;19(3):254–6 (24 ref.)

Influence of body position on tissue–pO2, cerebral perfusion pressure and intracranial pressure in patients with acute brain injury. Meixensberger J, et al. **Neurol Res** 1997 Jun; 19(3):249–53

Mitochondrial dysfunction after experimental and human brain injury and its possible reversal with a selective N–type calcium channel antagonist (SNX–111). Verweij BH, et al. **Neurol Res** 1997 Jun;19(3):334–9

Seizures, epilepsy, and functional recovery after traumatic brain injury: a reappraisal. Hernandez TD, et al. **Neurology** 1997 Apr;48(4):803–6 (47 ref.)

The spectrum of traumatic axonal injury. Gennarelli TA. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):509–13 (13 ref.)

Blunt head injury: prospects for improved outcome. Graham DI. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):505–9 (15 ref.)

Outcome of persistent vegetative state following hypoxic or traumatic brain injury in children and adolescents. Heindl UT, et al. **Neuropediatrics** 1996 Apr;27(2):94–100

Mechanisms of central motor reorganization in pediatric hemiplegic patients. Maegaki Y, et al. **Neuropediatrics** 1997 Jun;28(3):168–74

Indeloxazine hydrochloride improves impairment of passive avoidance performance after fluid percussion brain injury in rats. Yamaguchi T, et al. **Neuropharmacology** 1996 Mar; 35(3):329–36

An attempt towards differentiating attentional deficits in traumatic brain injury. Niemann H, et al. **Neuropsychol Rev** 1996 Mar;6(1):11–46 (125 ref.)

Non–verbal auditory recognition in normal subjects and brain–damaged patients: evidence for parallel processing. Clarke S, et al. **Neuropsychologia** 1996 Jun;34(6):587–603

Effects of hemispheric side of injury, age at injury, and presence of seizure disorder on functional ear and hand asymmetries in hemiplegic children. Isaacs E, et al. **Neuropsychologia** 1996 Feb;34(2):127–37

Remote memory in patients with acute brain injuries. Leplow B, et al. **Neuropsychologia** 1997 Jun;35(6):881–92

'Oops!': performance correlates of everyday attentional failures in traumatic brain injured and normal subjects. Robertson IH, et al. **Neuropsychologia** 1997 Jun; 35(6):747–58

Changes occur in the ability to promote axonal regeneration as the post–injury period increases. Houle JD, et al. **Neuroreport** 1997 Feb 10;8(3):751–5

Neuroprotection against CA1 injury with metalloporphyrins. Panizzon KL, et al. **Neuroreport** 1996 Jan 31;7(2):662–6

The role of inflammation and cytokines in brain injury. Arvin B, et al. **Neurosci Biobehav Rev** 1996 Autumn;20(3):445–52 (121 ref.)

The biphasic opening of the blood–brain barrier in the cortex and hippocampus after traumatic brain injury in rats. Başkaya MK, et al. **Neurosci Lett** 1997 Apr 18;226(1):33–6

Problems of the Glasgow Coma Scale with early intubated patients. Moskopp D, et al. **Neurosurg Rev** 1995;18(4):253–7

Continuous assessment of the cerebral vasomotor reactivity in head injury. Czosnyka M, et al. **Neurosurgery** 1997 Jul; 41(1):11–7; discussion 17–9

The role of microglia in brain injury. Streit WJ. **Neurotoxicology** 1996 Fall–Winter;17(3–4):671–8 (52 ref.)

The role of neutrophils in the production of hypoxic–ischemic brain injury in the neonatal rat. Hudome S, et al. **Pediatr Res** 1997 May;41(5):607–16

Brainstem auditory evoked potentials and somatosensory evoked potentials in prediction of posttraumatic coma in children. Butinar D, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R289–90

Activating the posttraumatic cholinergic system for the treatment of cognitive impairment following traumatic brain injury. Pike BR, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):785–91

Impairment of the perception of second order motion but not first order motion in a patient with unilateral focal brain damage. Vaina LM, et al. **Proc R Soc Lond B Biol Sci** 1996 Sep 22;263(1374):1225–32

Raphe–septal neurons changes in sensitivity to desipramine following an early septal lesion in the rat. Molina M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Nov; 20(8):1427–34

Injuries to the central nervous system [letter] **Retina** 1996; 16(6):542–3

Fluid–percussion brain injury adversely affects control of vascular tone during hemorrhagic shock. Law MM, et al. **Shock** 1996 Sep;6(3):213–7

Endothelin production links superoxide generation to altered opioid–induced pial artery vasodilation after brain injury in pigs. Kasemsri T, et al. **Stroke** 1997 Jan;28(1):190–6; discussion 197

Slow rhythmic oscillations of blood pressure, intracranial pressure, microcirculation, and cerebral oxygenation. Dynamic interrelation and time course in humans [see comments] Steinmeier R, et al. **Stroke** 1996 Dec; 27(12):2236–43. Comment in: Stroke 1997 Jun;28(6):1289–91.

[Craniocerebral trauma––new pathophysiologic aspects] Stolke D, et al. **Chirurg** 1996 Nov;67(11):1093–7 (26 ref.) (Eng. Abstr.) **(Ger)**

[Significance of apoptosis–induced fas antigen–fas ligand system for post–traumatic brain edema] Keel M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:481–3 (Eng. Abstr.) **(Ger)**

[Intracranial pressure monitoring in patients with severe craniocerebral injury] Deneke J, et al. **Unfallchirurgie** 1997 Apr;23(2):43–51 (Eng. Abstr.) **(Ger)**

[Monitoring intracranial pressure in patients with severe craniocerebral trauma (letter)] Trentz O. **Unfallchirurgie** 1997 Jun;23(3):85–6 **(Ger)**

[Effects of traumatic subarachnoid hemorrhage on pathological properties in diffuse brain injury: a comparison with aneurysmal subarachnoid hemorrhage] Fukuda T, et al. **No Shinkei Geka** 1996 Aug;24(8):723–31 (Eng. Abstr.) **(Jpn)**

[Tissue plasminogen activator (T-PA) and tissue plasminogen activator inhibitor (PAI-1) in patients after head injury] Beuth W, et al. **Neurol Neurochir Pol** 1996 May-Jun; 30(3):427-34 (Eng. Abstr.) **(Pol)**

[The formation of reactions of the cerebral cortical-brain stem structures to mild craniocerebral trauma in children] Poliakova VB.
Zh Nevropatol Psikhiatr Im S S Korsakova 1997;97(1):16-8 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Neuroprotective agents in severe head injury. Fearnside M. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S54-5

Therapeutic approaches for the prevention of secondary brain injury. McIntosh TK, et al. **Eur J Anaesthesiol** 1996 May;13(3):291-309 (260 ref.)

Neurologic outcomes after cardiac resuscitation. Shively M, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):93-6 (5 ref.)

Reduction of the neurological deficit in mice with traumatic brain injury by nitric oxide synthase inhibitors. Mésenge C, et al. **J Neurotrauma** 1996 Jan;13(1):11-6

Mild pre- and posttraumatic hypothermia attenuates blood-brain barrier damage following controlled cortical impact injury in the rat. Smith SL, et al.
J Neurotrauma 1996 Jan;13(1):1-9

Pyrrolopyrimidines: novel brain-penetrating antioxidants with neuroprotective activity in brain injury and ischemia models. Hall ED, et al. **J Pharmacol Exp Ther** 1997 May; 281(2):895-904

Prevention of trauma-induced neurodegeneration in infant and adult rat brain: glutamate antagonists. Ikonomidou C, et al. **Metab Brain Dis** 1996 Jun;11(2):125-41

Prevention of trauma-induced neurodegeneration in infant rat brain. Ikonomidou C, et al. **Pediatr Res** 1996 Jun; 39(6):1020-7

Modest hypothermia provides partial neuroprotection when used for immediate resuscitation after brain ischemia. Laptook AR, et al. **Pediatr Res** 1997 Jul;42(1):17-23

Preventing traumatic brain injury. Doster J. **Tenn Med** 1996 Oct;89(10):378-9

Catastrophic injury of the brain and spinal cord. Cantu RC. **Va Med Q** 1996 Spring;123(2):98-102

PSYCHOLOGY

The Kluver-Bucy syndrome. Gościński I, et al.
Acta Neurochir (Wien) 1997;139(4):303-6

The experience of head injury on the impairment of gender identity and gender role. Gutman SA, et al.
Am J Occup Ther 1996 Jul-Aug;50(7):535-44

Salutary change after frontal brain trauma. Labbate LA, et al. **Ann Clin Psychiatry** 1997 Mar;9(1):27-30

Family assessment device [letter; comment] Duckett S.
Arch Phys Med Rehabil 1997 Feb;78(2):234. Comment on: Arch Phys Med Rehabil 1996 Aug;77(8):754-64.

The agitated brain injured patient. Part 1: Definitions, differential diagnosis, and assessment. Sandel ME, et al.
Arch Phys Med Rehabil 1996 Jun;77(6):617-23 (64 ref.)

Apomorphine produces an acute dose-dependent therapeutic effect on neglect produced by unilateral destruction of the posterior parietal cortex in rats. Corwin JV, et al.
Behav Brain Res 1996 Sep;79(1-2):41-9

Utilization of the Denny-Brown collection: differential recovery of forelimb and hind limb stepping after extensive unilateral cerebral lesions. Vilensky JA, et al.
Behav Brain Res 1997 Jan;82(2):223-33

Quantitative reanalysis of lesion effects on rate of forgetting in macaques. White KG, et al. **Behav Brain Res** 1996 Jan; 74(1-2):223-7

WAIS-R short-forms: criterion validity in healthy and clinical samples. Crawford JR, et al. **Br J Clin Psychol** 1996 Nov;35 (Pt 4):638-40

Factor analysis of the Mayo-Portland Adaptability Inventory: structure and validity. Bohac DL, et al.
Brain Inj 1997 Jul;11(7):469-82

Road to awareness: an individualized training package for increasing knowledge and comprehension of personal deficits in persons with acquired brain injury. Chittum WR, et al. **Brain Inj** 1996 Oct;10(10):763-76

Indicators of long-term family functioning following severe traumatic brain injury in adults. Douglas JM, et al.
Brain Inj 1996 Nov;10(11):819-39

Awareness and perceptions of outcomes after traumatic brain injury. Hillier SL, et al. **Brain Inj** 1997 Jul;11(7):525-36

Substance abuse, traumatic brain injury and neuropsychological outcome. Kelly MP, et al. **Brain Inj** 1997 Jun;11(6):391-402

Post-traumatic stress disorder in brain injury patients. Ohry A, et al. **Brain Inj** 1996 Sep;10(9):687-95

Impact of childhood brain injury on work and family finances. Osberg JS, et al. **Brain Inj** 1997 Jan;11(1):11-24

Family needs after traumatic brain injury: a factor analytic study of the Family Needs Questionnaire. Serio CD, et al. **Brain Inj** 1997 Jan;11(1):1-9

Development and application of the Family Involvement Questionnaire in brain injury rehabilitation. Shaw LR, et al. **Brain Inj** 1997 Mar;11(3):219-31

Conversational assessment following traumatic brain injury: a comparison across two control groups. Snow P, et al.
Brain Inj 1997 Jun;11(6):409-29

Chronic, post-injury administration of D-cycloserine, an NMDA partial agonist, enhances cognitive performance following experimental brain injury. Temple MD, et al.
Brain Res 1996 Nov 25;741(1-2):246-51

Reduced sensorimotor reactivity following traumatic brain injury in rats. Wiley JL, et al. **Brain Res** 1996 Apr 15; 716(1-2):47-52

Evaluation of learning and memory dysfunction and histological findings in rats with chronic stage contusion and diffuse axonal injury. Yamaki T, et al. **Brain Res** 1997 Mar 28;752(1-2):151-60

Understanding head injury and intellectual recovery from brain damage: is IQ an adequate measure? Cahn G, et al.
Bull Am Acad Psychiatry Law 1996;24(1):135-42

Symbolic aspects of confabulation following brain injury: influence of premorbid personality. Weinstein EA.
Bull Menninger Clin 1996 Summer;60(3):331-50 (39 ref.)

Forgetting from long-term memory in severe closed-head injury patients: effect of retrieval conditions and semantic organization. Carlesimo GA, et al. **Cortex** 1997 Mar; 33(1):131-42

Cognitive estimation in traumatic brain injury: relationships with measures of intelligence, memory, and affect. Freeman MR, et al. **Int J Neurosci** 1995 Dec;83(3-4):269-73

Who is right about animal rights? [letter; comment] Greek R. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1100; discussion 1100-1. Comment on: J Am Vet Med Assoc 1997 Mar 1;210(5):612-8.

Behavioral outcomes after pediatric closed head injury: relationships with age, severity, and lesion size. Fletcher JM, et al. **J Child Neurol** 1996 Jul;11(4):283-90

Do recognition-free recall discrepancies detect retrieval deficits in closed-head injury? Demonstrating the inaccuracies of a reviewer's critique. Cicchetti DV.
J Clin Exp Neuropsychol 1997 Feb;19(1):144-8

Verbal learning subtypes in traumatic brain injury: a replication. Deshpande SA, et al.
J Clin Exp Neuropsychol 1996 Dec;18(6):836-42

Some critical remarks regarding Veiel's comment on Wilde et al. (1995). Fuerst DR. **J Clin Exp Neuropsychol** 1997 Feb;19(1):149-52

Cognitive slowing in patients with acquired brain damage: an experimental approach. Grön G.
J Clin Exp Neuropsychol 1996 Jun;18(3):406-15

Event-related potentials in brain-injured patients with neuropsychological disorders: a review. Viggiano MP.
J Clin Exp Neuropsychol 1996 Oct;18(5):631-47 (109 ref.)

Recovery of speed of information processing in closed-head-injury patients. Zwaagstra R, et al.
J Clin Exp Neuropsychol 1996 Jun;18(3):383-93

Local cerebral glucose metabolism in patients with long-term behavioral and cognitive deficits following mild traumatic brain injury. Gross H, et al.
J Neuropsychiatry Clin Neurosci 1996 Summer;8(3):324-34

Forensic issues in the neuropsychiatric evaluation of the patient with mild traumatic brain injury. Silver JM, et al.
J Neuropsychiatry Clin Neurosci 1997 Winter;9(1):102-13 (120 ref.)

Cognitive screening in mild traumatic brain injuries: analysis of the neurobehavioral cognitive status examination when utilized during initial trauma hospitalization. Blostein PA, et al. **J Neurotrauma** 1997 Mar;14(3):171-7

Voltage-dependent Na+/K+ ion channel blockade fails to ameliorate behavioral deficits after traumatic brain injury in the rat. Di X, et al. **J Neurotrauma** 1996 Sep; 13(9):497-504

Alpha 1-adrenoceptor blockade increases behavioral deficits in traumatic brain injury. Dunn-Meynell AA, et al.
J Neurotrauma 1997 Jan;14(1):43-52

Exposure to environmental complexity promotes recovery of cognitive function after traumatic brain injury. Hamm RJ, et al. **J Neurotrauma** 1996 Jan;13(1):41-7

Working memory deficits following traumatic brain injury in the rat. Hamm RJ, et al. **J Neurotrauma** 1996 Jun; 13(6):317-23

The effect of postinjury administration of polyethylene glycol-conjugated superoxide dismutase (pegorgotein, Dismutec) or lidocaine on behavioral function following fluid-percussion brain injury in rats. Hamm RJ, et al.
J Neurotrauma 1996 Jun;13(6):325-32

Riluzole, a novel neuroprotective agent, attenuates both neurologic motor and cognitive dysfunction following experimental brain injury in the rat. McIntosh TK, et al.
J Neurotrauma 1996 Dec;13(12):767-80

Mothering children who survive brain injuries: playing the hand you're dealt. Guerriere D, et al.
J Soc Pediatr Nurs 1997 Jul-Sep;2(3):105-15

Clinical predictors of the psychosocial long-term outcome after brain injury. Woischneck D, et al. **Neurol Res** 1997 Jun;19(3):305-10

Hemispheric specialization for discourse reports of emotional experiences: relationships to demographic, neurological, and perceptual variables. Borod JC, et al.
Neuropsychologia 1996 May;34(5):351-9

Effects of focal brain lesions on visual problem-solving. Miller LA, et al. **Neuropsychologia** 1996 May;34(5):387-98

Neuropsychological aspects of the rehabilitation of patients with paralysis from a spinal injury who also have a brain injury. Strubreither W, et al. **Spinal Cord** 1997 Aug; 35(8):487-92

[Psychiatric sequelae of craniocerebral trauma--a review of the literature] Supprian T, et al. **Psychiatr Prax** 1996 Jul; 23(4):161-7 (73 ref.) (Eng. Abstr.) **(Ger)**

[The age-related factor in the pathology of consciousness in craniocerebral trauma] Dobrokhotova TA, et al.
Zh Vopr Neirokhir Im N N Burdenko 1996 Jul-Sep;(3):22-5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Computerized tomography and prognosis in paediatric head injury. Tomberg T, et al. **Acta Neurochir (Wien)** 1996; 138(5):543-8

Relationship between muscular tone, movement and periarticular new bone formation in postcoma-unaware (PC-U) patients. Tsur A, et al. **Brain Inj** 1996 Apr; 10(4):259-62

Orbito-cranial injury caused by penetrating metallic foreign bodies: report of two cases. Rahman NU, et al.
Int Ophthalmol 1997;21(1):13-7

Analysis of 127 war inflicted missile brain injuries sustained in north-eastern Croatia. Vrankovic D, et al.
J Neurosurg Sci 1996 Jun;40(2):107-14

Benefits and pitfalls of telemedicine in neurosurgery. Gray W, et al. **J Telemed Telecare** 1997;3(2):108-10

Compelling evidence for discretionary brain computed tomographic imaging in those patients with mild cognitive impairment after blunt trauma. Dunham CM, et al.
J Trauma 1996 Oct;41(4):679-86

The course of the traumatising force in acceleration head injury: CT evidence. Bešenski N, et al. **Neuroradiology** 1996 May;38 Suppl 1:S36-41

Spontaneous gun pellet migration in the brain. Demuren OA, et al. **West Afr J Med** 1997 May-Jun;16(2):117-20

[No uniformity in radiodiagnosis and advice by Dutch neurologists in patients with minor brain injuries (see comments)] de Kruijk JR, et al. **Ned Tijdschr Geneeskd** 1996 Aug 31;140(35):1763-5 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2253-4. **(Dut)**

[No uniformity in radiodiagnosis and recommendations by Dutch neurologists in patients with minor brain injuries (letter; comment)] Spilt A, et al. **Ned Tijdschr Geneeskd** 1996 Nov 9;140(45):2253-4. Comment on: Ned Tijdschr Geneeskd 1996 Aug 31;140(35):1763-5. **(Dut)**

[Computerized tomography in craniocerebral, maxillofacial, cervical, and spinal gunshot wounds. Part II—Clinical contribution and medico- legal aspects] Scialpi M, et al.
Radiol Med (Torino) 1996 Dec;92(6):693-9 (Eng. Abstr.) **(Ita)**

[Clinicopathological studies of craniocerebral gunshot injuries] Shimura T, et al. **No Shinkei Geka** 1997 Jul; 25(7):607-12 (Eng. Abstr.) **(Jpn)**

[Radiologic examination of patients with head injuries. Late sequelae of minor head injuries, a radiological challenge] Larsen JL, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30; 116(20):2464-6 (27 ref.) (Eng. Abstr.) **(Nor)**

[An algorithm of neuroradiological examination of patients with acute craniocerebral injuries] Anan'eva NI, et al.
Vestn Rentgenol Radiol 1996 Nov-Dec;(6):30 **(Rus)**

[A study of referrals: what is the outcome of cranial computer tomography? Medical and economic benefits!] Nilsson J, et al. **Lakartidningen** 1996 Sep 25;93(39):3365-8 **(Swe)**

RADIONUCLIDE IMAGING

Quantitative cerebral blood flow and metabolism determination in the first 48 hours after severe head injury with a new dynamic SPECT device. Della Corte F, et al. **Acta Neurochir (Wien)** 1997;139(7):636-41; discussion 641-2

Single-photon-emission computed tomography (SPECT) in neurotologic assessment: a preliminary report. Sataloff RT, et al. **Am J Otol** 1996 Nov;17(6):909-16

Cerebral perfusion changes in traumatic diffuse brain injury; IMP SPECT studies. Ito H, et al. **Ann Nucl Med** 1997 May;11(2):167-72

Metabolic consequences of acute brain trauma: is there a role for PET? [editorial; comment] Alavi A, et al.
J Nucl Med 1996 Jul;37(7):1170-2. Comment on: J Nucl Med 1996 Jul;37(7):1166-70.

Cerebral hemodynamics and metabolism of severe diffuse brain injury measured by PET [see comments] Yamaki T, et al. **J Nucl Med** 1996 Jul;37(7):1166-70. Comment in: J Nucl Med 1996 Jul;37(7):1170-2.

The role of 99Tcm-HMPAO brain SPET in paediatric traumatic brain injury. Goshen E, et al.
Nucl Med Commun 1996 May;17(5):418-22

[A trial of the clinical use of the Testascan computerized gamma tomograph in neurosurgical pathology] Kalantarov KD, et al. **Med Tekh** 1996 Jan-Feb;(1):18-21 (Eng. Abstr.) **(Rus)**

[Positron-emission tomography in the diagnosis of brain damage in patients in the late period of craniocerebral trauma] Rudas MS, et al.
Zh Vopr Neirokhir Im N N Burdenko 1996 Jul-Sep;(3):8-12 (Eng. Abstr.) **(Rus)**

REHABILITATION

Conduct of head injury trials in the United States: the American Brain Injury Consortium (ABIC). Marmarou A.
Acta Neurochir Suppl (Wien) 1996;66:118-21

Development of critical paths for post-acute brain injury rehabilitation: lessons learned. Abreu BC, et al.
Am J Occup Ther 1996 Jun;50(6):417-27

Off-road driving evaluations for persons with cerebral injury: a factor analytic study of predriver and simulator testing.

Galski T, et al. **Am J Occup Ther** 1997 May;51(5):352–9
A consecutive series of adults with brain injury treated with a washing and dressing retraining program. Giles GM, et al. **Am J Occup Ther** 1997 Apr;51(4):256–66
Resumption of outpatient occupational therapy for a young woman five years after traumatic brain injury. Nelson DL, et al. **Am J Occup Ther** 1996 Mar;50(3):223–8
Profiles of functional recovery in fifty traumatically brain-injured patients after acute rehabilitation. Davis CH, et al. **Am J Phys Med Rehabil** 1997 May–Jun;76(3):213–8
Revised trauma score: an additive predictor of disability following traumatic brain injury? Zafonte RD, et al. **Am J Phys Med Rehabil** 1996 Nov–Dec;75(6):456–61
Rehabilitation challenges in craniospinal injury: two case reports. Nam AM, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):873–7 (19 ref.)
Readiness to change alcohol drinking habits after traumatic brain injury. Bombardier CH, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):592–6
Traumatic brain injury: designing and implementing a population-based follow-up system. Brooks CA, et al. **Arch Phys Med Rehabil** 1997 Aug;78(8 Suppl 4):S26–30
Acute predictors of successful return to work 1 year after traumatic brain injury: a multicenter analysis. Cifu DX, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):125–31
Systematic bias in outcome studies of persons with traumatic brain injury. Corrigan JD, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):132–7
Risk factors for acute care transfer among traumatic brain injury patients. Deshpande AA, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):350–2
Postacute neurorehabilitation: roles and responsibilities within a national information system. Evans RW. **Arch Phys Med Rehabil** 1997 Aug;78(8 Suppl 4):S17–25 (38 ref.)
Establishing a national traumatic brain injury information system based upon a unified data set. Hall KM. **Arch Phys Med Rehabil** 1997 Aug;78(8 Suppl 4):S5–11
Relationships between disability measures and nursing effort during medical rehabilitation for patients with traumatic brain and spinal cord injury. Heinemann AW, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):143–9
Toward a National Information System for traumatic brain injury: foreword and overview. Johnston MV. **Arch Phys Med Rehabil** 1997 Aug;78(8 Suppl 4):S1–4
Agreement between persons with traumatic brain injury and their relatives regarding psychosocial outcome using the Community Integration Questionnaire. Sander AM, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):353–7
Visuomotor imagery and rehabilitation of neglect. Smania N, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):430–6
Video feedback in the rehabilitation of patients with unilateral neglect. Tham K, et al. **Arch Phys Med Rehabil** 1997 Apr; 78(4):410–3
Unilateral neglect syndrome rehabilitation by trunk rotation and scanning training. Wiart L, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):424–9
Prognostic indicators in medical rehabilitation of traumatic brain injury: a commentary and review. Zasler ND. **Arch Phys Med Rehabil** 1997 Aug;78(8 Suppl 4):S12–6
Rehabilitation and the neurosurgeon [editorial] Gentleman D. **Br J Neurosurg** 1996 Dec;10(6):537–40 (46 ref.)
The effectiveness of DRL in the management and treatment of severe behaviour disorders following brain injury [published erratum appears in Brain Inj 1997 Jul;11(7):541–2] Alderman N, et al. **Brain Inj** 1997 Feb; 11(2):79–101
Patients with traumatic brain injury referred to a rehabilitation and re-employment programme: social and professional outcome for 508 Finnish patients 5 or more years after injury. Asikainen I, et al. **Brain Inj** 1996 Dec; 10(12):883–99
Subacute brain injury rehabilitation: an opportunity for medical education and training. Bell KR, et al. **Brain Inj** 1996 Dec;10(12):875–81
The use of lithium in the treatment of aggressive behaviours with two brain-injured individuals in a state psychiatric hospital. Bellus SB, et al. **Brain Inj** 1996 Nov;10(11):849–60
An integrated approach to team assessment in head injury. Body R, et al. **Brain Inj** 1996 Apr;10(4):311–8
The effectiveness of computer-assisted cognitive rehabilitation for persons with traumatic brain injury. Chen SH, et al. **Brain Inj** 1997 Mar;11(3):197–209
Early experience of the utility of the European Head Injury Evaluation Chart. Cudmore S, et al. **Brain Inj** 1996 Jul; 10(7):517–29
Recovery and rehabilitation following traumatic brain injury. Dombovy ML, et al. **Brain Inj** 1997 May;11(5):305–18
Eating in side-lying facilitates rehabilitation in neurogenic dysphagia. Drake W, et al. **Brain Inj** 1997 Feb;11(2):137–42
Staff stress in head injury rehabilitation; Brain Injury, 10(2): 133–138 [letter; comment] [see comments] Duckett S. **Brain Inj** 1996 Oct;10(10):779. Comment on: Brain Inj 1996 Feb;10(2):133–8. Comment in: Brain Inj 1997 Jun;11(6):465–6.
Outcome of intensive rehabilitation after severe brain injury: a long-term follow-up study. Eames P, et al. **Brain Inj** 1996 Sep;10(9):631–50
Community-based rehabilitation of the person with a severe brain injury. Freeman EA. **Brain Inj** 1997 Feb;11(2):143–53
The relationship of neuropsychological status and productive outcomes following traumatic brain injury. Girard D, et al. **Brain Inj** 1996 Sep;10(9):663–76
Everyday memory following traumatic brain injury. Kinsella G, et al. **Brain Inj** 1996 Jul;10(7):499–507
Utility of a verbal reasoning test in indicating vocational readiness following traumatic brain injury. MacDonald S, et al. **Brain Inj** 1996 Jul;10(7):531–42
Ethical conflict resolution based on an ethics of relationships for brain injury rehabilitation. Malec JF. **Brain Inj** 1996 Nov;10(11):781–95
A non-aversive approach to reducing hospital absconding in a head-injured adolescent boy. Manchester D, et al. **Brain Inj** 1997 Apr;11(4):271–7
Prevalence of impairments 5 years after a head injury, and their relationship with disabilities and outcome. Masson F, et al. **Brain Inj** 1996 Jul;10(7):487–97
Outcome following traumatic brain injury: a comparison between 2 and 5 years after injury. Olver JH, et al. **Brain Inj** 1996 Nov;10(11):841–8
Static and dynamic assessment practices after head injury. Rees RJ, et al. **Brain Inj** 1996 Apr;10(4):247–57
Development and application of the Family Involvement Questionnaire in brain injury rehabilitation. Shaw LR, et al. **Brain Inj** 1997 Mar;11(3):219–31
Cognitive effects of antipsychotic agents in persons with traumatic brain injury. Stanislav SW. **Brain Inj** 1997 May; 11(5):335–41
Community based rehabilitation [editorial] Stonnington HH. **Brain Inj** 1997 Feb;11(2):155
Treatment of motor aprosodia with pitch biofeedback and expression modelling. Stringer AY. **Brain Inj** 1996 Aug; 10(8):583–90
Longitudinal profile of early motor recovery following severe traumatic brain injury. Swaine BR, et al. **Brain Inj** 1996 May;10(5):347–66
Outcomes in traumatic brain injury: self-report versus report of significant others. Tepper S, et al. **Brain Inj** 1996 Aug; 10(8):575–81
Recovery of automatic and cognitive functions in traumatic brain injury using the functional independence measure. Tofil S, et al. **Brain Inj** 1996 Dec;10(12):901–10
Screening of health risk factors prior to exercise or a fitness evaluation of adults with traumatic brain injury: a consensus by rehabilitation professionals. Vitale AE, et al. **Brain Inj** 1996 May;10(5):367–75
Kinematic changes following botulinum toxin injection after traumatic brain injury. Wilson DJ, et al. **Brain Inj** 1997 Mar;11(3):157–67
Behavioural differences between patients who emerged from vegetative state and those who did not. Wilson SL, et al. **Brain Inj** 1996 Jul;10(7):509–16
Vegetative state and responses to sensory stimulation: an analysis of 24 cases. Wilson SL, et al. **Brain Inj** 1996 Nov; 10(11):807–18
Effectiveness of valproic acid on destructive and aggressive behaviours in patients with acquired brain injury. Wroblewski BA, et al. **Brain Inj** 1997 Jan;11(1):37–47
Rehabilitation and follow-up of children with severe traumatic brain injury. Emanuelson I, et al. **Childs Nerv Syst** 1996 Aug;12(8):460–5
Trauma and rehabilitation. **Curr Opin Neurol** 1996 Dec; 9(6):B140–9
Post-traumatic apallic syndrome following head injury. Part 2: Treatment. Grossman P, et al. **Disabil Rehabil** 1996 Feb; 18(2):57–68 (68 ref.)
An inter-rater reliability study of the Functional Assessment Measure (FIM+FAM). McPherson KM, et al. **Disabil Rehabil** 1996 Jul;18(7):341–7
Evaluation of a short-term computer-assisted training programme for the remediation of attentional deficits after brain injury: a preliminary study. Gauggel S, et al. **Int J Rehabil Res** 1996 Sep;19(3):229–39
Learning from our successes and failures: reflections and comments on "Cognitive rehabilitation: how it is and how it might be". Prigatano GP. **J Int Neuropsychol Soc** 1997 Sep;3(5):497–9; discussion 500
Cognitive rehabilitation: how it is and how it might be. Wilson BA. **J Int Neuropsychol Soc** 1997 Sep;3(5):487–96 (95 ref.)
Tennessee's Traumatic Brain Injury Program. Doster J. **J Tenn Med Assoc** 1996 Mar;89(3):83, 86
Computers help reprogram injured brains. Hoepfer M. **Pa Med** 1996 Apr;99(4):34–6
Late improvements in mobility after acquired brain injuries in children. Vander Schaaf PJ, et al. **Pediatr Neurol** 1997 May;16(4):306–10
To treat or not to treat--PVS or is he? Richardson D. **Physiother Res Int** 1997;2(2):1–6
Head injury rehabilitation in the U.K.: an economic perspective. McGregor K, et al. **Soc Sci Med** 1997 Jul; 45(2):295–303 (65 ref.)
Neuropsychological aspects of the rehabilitation of patients with paralysis from a spinal injury who also have a brain injury. Strubreither W, et al. **Spinal Cord** 1997 Aug; 35(8):487–92
[Hospital rehabilitation of patients with severe traumatic brain injury. I: Current status and organization in Denmark and abroad] Jørgensen HS. **Ugeskr Laeger** 1997 Jun 23; 159(26):4089–92 (11 ref.) (Eng. Abstr.) **(Dan)**
[Hospital rehabilitation of patients with severe brain injuries. II: Prognosis and effect of early intensive, specialized rehabilitation] Jørgensen HS. **Ugeskr Laeger** 1997 Jun 23; 159(26):4093–8 (28 ref.) (Eng. Abstr.) **(Dan)**
[Early stimulation, a component of an early rehabilitation treatment concept on the neurosurgical intensive care unit] Lippert-Grüner M, et al. **Rehabilitation (Stuttg)** 1997 May; 36(2):111–5 (Eng. Abstr.) **(Ger)**
[Evaluation and treatment of dysphagia in patients with cerebrovascular lesions and cranial injuries] Pistarini C, et al. **G Ital Med Lav Ergon** 1996 Jan–May;18(1–3):19–23 (Eng. Abstr.) **(Ita)**
[An intensive rehabilitation helped. A new life for a patient with severe cranial injuries] Londos E, et al. **Lakartidningen** 1996 Oct 23;93(43):3791–2 **(Swe)**

SURGERY

A prospective comparison of fibre-optic and fluid-filled single lumen bolt subdural pressure transducers in ventilated neurosurgical patients. Bavetta S, et al. **Br J Neurosurg** 1996 Jun;10(3):279–84
Outcome of pediatric patients with severe brain injury in Korea: a comparison with reports in the west. Song SH, et al. **Childs Nerv Syst** 1997 Feb;13(2):82–6
Dose response, recovery, and cost of doxacurium as a continuous infusion in neurosurgical intensive care unit patients. Prielipp RC, et al. **Crit Care Med** 1997 Jul; 25(7):1236–41
Deliberate hypotension and prophylactic cerebral protection in a case of combined severe neurotrauma and aortic rupture. Herlevsen P, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):513–5
Trauma systems and the neurosurgeon. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):647–51 (13 ref.)
Use of telecommunications in a rural emergency. Brain surgery by fax. Rottger J, et al. **J Telemed Telecare** 1997; 3(1):59–60
Multiparametric continuous monitoring of brain metabolism and substrate delivery in neurosurgical patients. Zauner A, et al. **Neurol Res** 1997 Jun;19(3):265–73
Cranioplasty with bone flaps preserved under the scalp. Paşaoğlu A, et al. **Neurosurg Rev** 1996;19(3):153–6
Gunshot wounds to the head in civilian practice [letter; comment] Apostolides PJ, et al. **Neurosurgery** 1996 Jul; 39(1):210–1. Comment on: Neurosurgery 1995 Dec;37(6):1104–10; discussion 1110–2.
Decompressive bifrontal craniectomy in the treatment of severe refractory posttraumatic cerebral edema. Polin RS, et al. **Neurosurgery** 1997 Jul;41(1):84–92; discussion 92–4
Enteral versus parenteral nutrition: effects on gastrointestinal function and metabolism. Suchner U, et al. **Nutrition** 1996 Jan;12(1):13–22
Guidelines for treatment of head injury in adults. Opinions of a group of neurosurgeons. Fernandez R, et al. **Zentralbl Neurochir** 1997;58(2):72–4
[Craniocerebral trauma in acute surgical management. Primary care in a general community hospital] Friedl W, et al. **Chirurg** 1996 Nov;67(11):1107–13 (Eng. Abstr.) **(Ger)**
[Management of craniocerebral trauma in a neurosurgery center] Gilsbach JM, et al. **Chirurg** 1996 Nov; 67(11):1114–22 (39 ref.) (Eng. Abstr.) **(Ger)**
[Severe craniocerebral trauma] Parzhuber A, et al. **Unfallchirurg** 1996 Aug;99(8):541–7 (Eng. Abstr.) **(Ger)**
[No room for neurotraumatologic tourism (editorial)] Schweiberer L. **Unfallchirurg** 1996 Aug;99(8):533 **(Ger)**
[Therapeutic outcome in penetrating craniocerebral injuries in children. Personal experiences during war conditions] Vranković D, et al. **Unfallchirurg** 1997 Jan;100(1):13–6 (Eng. Abstr.) **(Ger)**
[A penetrating cranio-facial injury due to a nail-gun accident] Inoha S, et al. **No Shinkei Geka** 1997 Jul; 25(7):635–9 (Eng. Abstr.) **(Jpn)**
[Endogenous intoxication and its treatment with sodium hypochlorite in neurosurgical patients] Parfenov AL, et al. **Anesteziol Reanimatol** 1997 May–Jun;(3):62–5 (Eng. Abstr.) **(Rus)**
[The characteristics of the postoperative course in victims with duodenal damage combined with craniocerebral trauma] Tutchenko NI, et al. **Klin Khir** 1995;(1):9–10 **(Rus)**

THERAPY

Aspects on the cerebral perfusion pressure during therapy of a traumatic head injury. Grände PO, et al. **Acta Anaesthesiol Scand Suppl** 1997;110:36–40
Management of brain trauma. Walter M. **Acta Anaesthesiol Scand Suppl** 1996;109:53–7
Ketamine for analgosedative therapy in intensive care treatment of head-injured patients. Kolenda H, et al. **Acta Neurochir (Wien)** 1996;138(10):1193–9
EBIC-guidelines for management of severe head injury in adults. European Brain Injury Consortium. Maas AI, et al. **Acta Neurochir (Wien)** 1997;139(4):286–94
Induced hypothermia in intensive care medicine. Bernard S. **Anaesth Intensive Care** 1996 Jun;24(3):382–8 (104 ref.)
Clinical trial of induced hypothermia in comatose survivors of out-of-hospital cardiac arrest. Bernard SA, et al. **Ann Emerg Med** 1997 Aug;30(2):146–53
The management of severe head injury. Meythaler JM. **Arch Phys Med Rehabil** 1996 Jun;77(6):628–9
Central nervous system trauma. Statham PF, et al. **Baillieres Clin Neurol** 1996 Oct;5(3):497–514 (51 ref.)
Use of ECT after brain injury. Crow S, et al.

Convuls Ther 1996 Jun;12(2):113–6

Nutritional management of the critically ill neurologic patient. Twyman D. **Crit Care Clin** 1997 Jan;13(1):39–49 (30 ref.)

The use of hyperventilation and its impact on cerebral ischemia in the treatment of traumatic brain injury. Yundt KD, et al. **Crit Care Clin** 1997 Jan;13(1):163–84 (85 ref.)

Hyperventilation in traumatic brain injury: friend or foe? [editorial; comment] Chesnut RM. **Crit Care Med** 1997 Aug;25(8):1275–8. Comment on: Crit Care Med 1997 Aug;25(8):1402–9.

Severe head injury in the United Kingdom and Ireland: a survey of practice and implications for management. Matta B, et al. **Crit Care Med** 1996 Oct;24(10):1743–8

Survival and functional outcome of children requiring endotracheal intubation during therapy for severe traumatic brain injury [see comments] Thakker JC, et al. **Crit Care Med** 1997 Aug;25(8):1396–401. Comment in: Crit Care Med 1997 Aug;25(8):1272.

The management of severe traumatic brain injury. Chesnut RM. **Emerg Med Clin North Am** 1997 Aug;15(3):581–604 (89 ref.)

Guidelines for the management of severe head injury. Brain Trauma Foundation. Bullock R, et al. **Eur J Emerg Med** 1996 Jun;3(2):109–27 (46 ref.)

Neurosurgical intensive care for severe head injuries. Winston SR. **Iowa Med** 1996 Mar;86(3):117–9

Laparoscopic-assisted gastrostomy in 26 patients: indications and outcome at 2 years. Hin PC. **J Laparoendosc Surg** 1996 Feb;6(1):25–8

A look at recent hyperventilation studies: outcomes and recommendations for early use in the head-injured patient. Geraci E, et al. **J Neurosci Nurs** 1996 Aug;28(4):222–4, 229–33 (35 ref.)

Hyperventilation and head injury: controversies and concerns. Geraci EB, et al. **J Neurosci Nurs** 1996 Dec; 28(6):381–7 (85 ref.)

Cerebral perfusion pressure [letter; comment] Cruz J. **J Neurosurg** 1996 Aug;85(2):365–7. Comment on: J Neurosurg 1995 Dec;83(6):949–62.

Hypothermia and brain injury [letter; comment] Cruz J. **J Neurosurg** 1997 May;86(5):911–4. Comment on: J Neurosurg 1996 Oct;85(4):533–41.

The integration of brain-specific treatments into the initial resuscitation of the severe head injury patient. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):653–9 (19 ref.)

Indications for intracranial pressure monitoring. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov; 13(11):667–79 (52 ref.)

Guidelines for the management of severe head injury. Introduction. **J Neurotrauma** 1996 Nov;13(11):643–5

Guidelines for cerebral perfusion pressure. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):693–7 (35 ref.)

The use of hyperventilation in the acute management of severe traumatic brain injury. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):699–703 (35 ref.)

The use of mannitol in severe head injury. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):705–9 (43 ref.)

Nutritional support of brain-injured patients. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):721–9 (41 ref.)

Treatment of experimental brain injury with moderate hypothermia and 21-aminosteroids. Marion DW, et al. **J Neurotrauma** 1996 Mar;13(3):139–47

Effects of mild hypothermia on nitric oxide synthesis following contusion trauma in the rat. Sakamoto KI, et al. **J Neurotrauma** 1997 May;14(5):349–53

Initial small-volume hypertonic resuscitation of shock and brain injury: short- and long-term effects. Anderson JT, et al. **J Trauma** 1997 Apr;42(4):592–600; discussion 600–1

Diaspirin cross-linked hemoglobin resuscitation improves cerebral perfusion after head injury and shock. Chappell JE, et al. **J Trauma** 1996 Nov;41(5):781–8

Avoidance of hypotension: conditio sine qua non of successful severe head-injury management. Chesnut RM. **J Trauma** 1997 May;42(5 Suppl):S4–9 (31 ref.)

Physiologic principles for volume regulation of a tissue enclosed in a rigid shell with application to the injured brain. Grände PO, et al. **J Trauma** 1997 May;42(5 Suppl):S23–31 (34 ref.)

Hypertonic/hyperoncotic saline attenuates microcirculatory disturbances after traumatic brain injury. Härtl R, et al. **J Trauma** 1997 May;42(5 Suppl):S41–7

Therapy of patients with head injuries: key parameters for management. Prough DS, et al. **J Trauma** 1997 May;42(5 Suppl):S10–8 (78 ref.)

Outcome analysis of patients with severe head injuries and prolonged intracranial hypertension. Resnick DK, et al. **J Trauma** 1997 Jun;42(6):1108–11

Effect of small-volume resuscitation on intracranial pressure and related cerebral variables. Shackford SR. **J Trauma** 1997 May;42(5 Suppl):S48–53

Individual patient cohort analysis of the efficacy of hypertonic saline/dextran in patients with traumatic brain injury and hypotension. Wade CE, et al. **J Trauma** 1997 May;42(5 Suppl):S61–5 (22 ref.)

Treatment of traumatic brain injury with moderate hypothermia. Marion DW, et al. **N Engl J Med** 1997 Feb 20;336(8):540–6

Brain tissue pO2-monitoring in comatose patients: implications for therapy. Kiening KL, et al. **Neurol Res** 1997 Jun;19(3):233–40

Clinical predictors of the psychosocial long-term outcome after brain injury. Woischneck D, et al. **Neurol Res** 1997 Jun;19(3):305–10

Thrombotic, infectious, and procedural complications of the jugular bulb catheter in the intensive care unit. Coplin WM, et al. **Neurosurgery** 1997 Jul;41(1):101–7; discussion 107–9

Treatment of refractory intracranial hypertension in severe traumatic brain injury with repetitive hypertonic/hyperoncotic infusions. Härtl R, et al. **Zentralbl Chir** 1997;122(3):181–5

Continuous monitoring of brain tissue PO2: a new tool to minimize the risk of ischemia caused by hyperventilation therapy. Dings J, et al. **Zentralbl Neurochir** 1996; 57(4):177–83

[Evidence-based guidelines for emergency treatment of severe cranial injuries] Astrup J. **Ugeskr Laeger** 1997 Mar 3;159(10):1459–60 **(Dan)**

[Treatment of acute cranial trauma in Denmark. Is there any need for structuring?] Koch-Jensen C, et al. **Ugeskr Laeger** 1997 Aug 18;159(34):5106 **(Dan)**

[No uniformity in radiodiagnosis and advice by Dutch neurologists in patients with minor brain injuries (see comments)] de Kruijk JR, et al. **Ned Tijdschr Geneeskd** 1996 Aug 31;140(35):1763–5 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2253–4. **(Dut)**

[Hypertonic solutions and intracranial pressure] Favre JB, et al. **Schweiz Med Wochenschr** 1996 Sep 28; 126(39):1635–43 (41 ref.) (Eng. Abstr.) **(Fre)**

[Osmotherapy in traumatic brain injury] Brüssel T. **Anaesthesist** 1997 Jan;46(1):58–9 **(Ger)**

[Mild and moderate hypothermia as a new therapy concept in treatment of cerebral ischemia and craniocerebral trauma. Pathophysiologic principles] Werner C. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Apr; 32(4):210–8 (78 ref.) (Eng. Abstr.) **(Ger)**

[Removal of endoscopic percutaneously implanted gastrostomy tubes. Comment on the contribution by H. Seitz et al. (letter)] Rückauer K, et al. **Chirurg** 1997 Apr; 68(4):447 **(Ger)**

[Neurotrauma. Current treatment concept] Stocker R, et al. **Unfallchirurg** 1996 Oct;99(10):806–10 (22 ref.) **(Ger)**

[Guidelines for primary management of patients with craniocerebral trauma. Intensive Care Medicine and Neurotraumatology Working Group of the German Society of Neurosurgery. Scientific Neuroanesthesia Circle of the German Society of Anesthesiology and Intensive Care Medicine] **Zentralbl Neurochir** 1997;58(1):13–7 **(Ger)**

[Critical care of patients with increased intracranial pressure] Burchardi H, et al. **Zentralbl Neurochir** 1997;58(2):93–4 **(Ger)**

[Nutrition for patients with craniocerebral trauma] Dörr F, et al. **Zentralbl Neurochir** 1997;58(2):88–90 (19 ref.) **(Ger)**

[Fluid management of patients with craniocerebral trauma] Eckart J. **Zentralbl Neurochir** 1997;58(2):82–8 (47 ref.) **(Ger)**

[Cerebrovascular effects of analgosedation] Werner C, et al. **Zentralbl Neurochir** 1997;58(2):90–3 (22 ref.) **(Ger)**

[Analysis of mild barbiturate-moderate hypothermia therapy on the authors' 152 cases] Young-Su P, et al. **No Shinkei Geka** 1997 Jun;25(6):529–35 (Eng. Abstr.) **(Jpn)**

[The combined treatment of severe craniocerebral trauma taking into account the nature of the brain damages and the extent of the hypertensive-dislocation syndrome] Zotov IuV, et al. **Vestn Khir Im I I Grek** 1996;(1):53–5 (Eng. Abstr.) **(Rus)**

[The structure of battle trauma to the brain and the organization of the delivery of neurological care at stages in the medical evacuation in armed conflicts] Odinak MM, et al. **Voen Med Zh** 1997 Jan;318(1):56–61 **(Rus)**

ULTRASONOGRAPHY

Neurotraumatology: ultrasonic evaluation of the central nervous system. Dohrmann GJ, et al. **Neurol Res** 1997 Jun; 19(3):317–22

Effect of transient moderate hyperventilation on dynamic cerebral autoregulation after severe head injury. Newell DW, et al. **Neurosurgery** 1996 Jul;39(1):35–43; discussion 43–4

[Transcranial Doppler sonography in neurotraumatology: hemodynamic monitoring of diffuse axonal injury] Visocchi M, et al. **Rays** 1995 Oct-Dec;20(4):473–81 (Eng. Abstr.) **(Ita)**

BRAIN MAPPING

Mapping brain function with magnetic resonance imaging. Ugurbil K. **Acta Anaesthesiol Scand Suppl** 1997;110:113–5

Mapping human memory—a brief review. Frackowiak RS, et al. **Acta Neurol Belg** 1996 Sep;96(3):189–92 (24 ref.)

Temporal and spatial characterization of neuronal injury following lateral fluid-percussion brain injury in the rat. Hicks R, et al. **Acta Neuropathol (Berl)** 1996;91(3):236–46

Origin of auditory brainstem responses in cats: whole brainstem mapping, and a lesion and HRP study of the inferior colliculus. Kaga K, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):197–201

Topography of auditory evoked long-latency potentials in children with severe language impairment: the T complex. Tonnquist-Uhlén I. **Acta Otolaryngol (Stockh)** 1996 Sep; 116(5):680–9

Mapping of the sensorimotor cortex: functional MR and magnetic source imaging. Roberts TP, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):871–80

Age-related changes in the pediatric brain: quantitative MR evidence of maturational changes during adolescence. Steen RG, et al. **AJNR Am J Neuroradiol** 1997 May; 18(5):819–28

Use of functional MR to map language in multilingual volunteers. Yetkin O, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):473–7

Increased activity of the ipsilateral motor cortex during a hand motor task in patients with brain tumor and paresis. Yoshiura T, et al. **AJNR Am J Neuroradiol** 1997 May; 18(5):865–9

Location and quantification of muscarinic receptor subtypes in rat pons: implications for REM sleep generation. Baghdoyan HA. **Am J Physiol** 1997 Sep;273(3 Pt 2):R896–904

Stimulation of dog RVLM and A5 area changes sympathetic outflow to vascular beds without effect on the heart. Dickerson LW, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R821–39

Serotonergic afferents mediate activity-dependent entrainment of the mouse circadian clock. Edgar DM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R265–9

Neuroanatomic organization of the parasympathetic bronchomotor system in developing sheep. Pérez Fontán JJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R121–33

Partial lipectomy, but not PVN lesions, increases food hoarding by Siberian hamsters. Wood AD, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R783–92

Interactions of gastric vagal and peripheral nerves on single neurons of lateral hypothalamus in the cat. Yuan CS, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G858–65

Activation mapping in essential tremor with functional magnetic resonance imaging. Bucher SF, et al. **Ann Neurol** 1997 Jan;41(1):32–40

In vivo mapping of cholinergic terminals in normal aging, Alzheimer's disease, and Parkinson's disease. Kuhl DE, et al. **Ann Neurol** 1996 Sep;40(3):399–410

Visual object recognition. Legothetis NK, et al. **Annu Rev Neurosci** 1996;19:577–621 (228 ref.)

Inferotemporal cortex and object vision. Tanaka K. **Annu Rev Neurosci** 1996;19:109–39 (102 ref.)

Magnopyramidal neurons in the anterior motor speech region. Dendritic features and interhemispheric comparisons. Hayes TL, et al. **Arch Neurol** 1996 Dec; 53(12):1277–83

Changing interpretations of the human cortical pattern. Maudgil DD. **Arch Neurol** 1997 Jun;54(6):769–75

Plasticity in the maternal circuit: effects of maternal experience on Fos-Lir in hypothalamic, limbic, and cortical structures in the postpartum rat. Fleming AS, et al. **Behav Neurosci** 1996 Jun;110(3):567–82

Topographic EEG mapping of the relaxation response. Jacobs GD, et al. **Biofeedback Self Regul** 1996 Jun; 21(2):121–9

PET brain mapping study of auditory verbal supraspan memory versus visual fixation in schizophrenia. Ganguli R, et al. **Biol Psychiatry** 1997 Jan 1;41(1):33–42

Topographic abnormalities of P3 in schizotypal personality disorder. Salisbury DF, et al. **Biol Psychiatry** 1996 Aug 1;40(3):165–72

The anatomy of mood disorders--review of structural neuroimaging studies. Soares JC, et al. **Biol Psychiatry** 1997 Jan 1;41(1):86–106 (190 ref.)

Function of the left planum temporale in auditory and linguistic processing. Binder JR, et al. **Brain** 1996 Aug;119 (Pt 4):1239–47

A PET study on brain control of micturition in humans. Blok BF, et al. **Brain** 1997 Jan;120 (Pt 1):111–21

Functional localization of the system for visuospatial attention using positron emission tomography. Nobre AC, et al. **Brain** 1997 Mar;120 (Pt 3):515–33

Corticomotor representation of the sternocleidomastoid muscle. Thompson ML, et al. **Brain** 1997 Feb;120 (Pt 2):245–55

Localization of the motor hand area to a knob on the precentral gyrus. A new landmark. Yousry TA, et al. **Brain** 1997 Jan;120 (Pt 1):141–57

A segmental map of architectonic subdivisions in the diencephalon of the frog Rana perezi: acetylcholinesterase-histochemical observations. Puelles L, et al. **Brain Behav Evol** 1996;47(6):279–310

Perioral myoclonia with absences? A case report with EEG and voltage mapping analysis. Clemens B. **Brain Dev** 1997 Jul;19(5):353–8

The neurotopography of vowels as mirrored by evoked magnetic field measurements. Diesch E, et al. **Brain Lang** 1996 May;53(2):143–68

Microstates in language-related brain potential maps show noun-verb differences. Koenig T, et al. **Brain Lang** 1996 May;53(2):169–82

Long-term potentiation in the in vitro perirhinal cortex displays associative properties. Bilkey DK. **Brain Res** 1996 Sep 16;733(2):297–300

The relationship between monkey ventrolateral thalamic nucleus activity and kinematic parameters of wrist movement. Butler EG, et al. **Brain Res** 1996 Oct 14; 736(1-2):146–59

BRAIN MAPPING

Response of medial medullary reticular neurons to otolith stimulation during bidirectional off-vertical axis rotation of the cat. Chan YS, et al. **Brain Res** 1996 Sep 2; 732(1-2):159-68

Neuronal responses in prefrontal cortex and nucleus accumbens during heroin self-administration in freely moving rats. Chang JY, et al. **Brain Res** 1997 Apr 18; 754(1-2):12-20

Direct projections to subfornical organ from catecholaminergic neurons in the caudal nucleus of the solitary tract. Ciriello J, et al. **Brain Res** 1996 Jul 8; 726(1-2):227-32

Acoustically activated c-fos expression in auditory nuclei of the anaesthetised guinea pig. Cody AR, et al. **Brain Res** 1996 Jul 22;728(1) 72-8

Effects of the blockade of opioid receptor on defensive reactions elicited by electrical stimulation within the deep layers of the superior colliculus and DPAG. Coimbra NC, et al. **Brain Res** 1996 Oct 14;736(1-2):348-52

Skilled motor deficits in rats induced by ventrolateral striatal dopamine depletions: behavioral and pharmacological characterization. Cousins MS, et al. **Brain Res** 1996 Sep 2;732(1-2):186-94

Amygdala kindling does not change emotional responding as measured by the acoustic startle response in the rat. Ebert U, et al. **Brain Res** 1996 Sep 16;733(2):193-202

Pressor and depressor sites are intermingled in the cingulate cortex of the rat. Fisk GD, et al. **Brain Res** 1997 Apr 18; 754(1-2):204-12

6-Hydroxydopamine lesion of ventral pallidum blocks acquisition of place preference conditioning to cocaine. Gong W, et al. **Brain Res** 1997 Apr 18;754(1-2):103-12

Ultrastructural localization and comparative distribution of nitric oxide synthase and N-methyl-D-aspartate receptors in the shell of the rat nucleus accumbens. Gracy KN, et al. **Brain Res** 1997 Feb 7;747(2):259-72

Topographic organization of projection from the parabigeminal nucleus to the superior colliculus in the ferret revealed with fluorescent latex microspheres. Jiang ZD, et al. **Brain Res** 1996 Dec 16;743(1-2):217-32

Electrophysiological characterization of the olfactory bulb during recovery from sensory deafferentation. Koster NL, et al. **Brain Res** 1996 Jun 10;724(1):117-20

Cholinergic innervation of the song control nuclei by the ventral paleostriatum in the zebra finch: a double-labeling study with retrograde fluorescent tracers and choline acetyltransferase immunohistochemistry. Li R, et al. **Brain Res** 1997 Jul 25;763(2):239-46

Metabolic and functional mapping of the neural network subserving inferior collicular seizure generalization. McCown TJ, et al. **Brain Res** 1995 Dec 1;701(1-2):117-28

Role of cholinergic inputs to the medial preoptic area in regulation of sleep-wakefulness and body temperature in freely moving rats. Mallick BN, et al. **Brain Res** 1997 Mar 7;750(1-2):311-7

Recognition of temporally structured activity in spontaneously discharging neurons in the somatosensory cortex in waking cats. Martinson J, et al. **Brain Res** 1997 Mar 7;750(1-2):129-40

Kindling antagonism: interactions of the amygdala with the piriform, perirhinal, and insular cortices. Mohapel P, et al. **Brain Res** 1996 Sep 16;733(2):211-8

Correlating cytoarchitecture and function in cat primary somatosensory cortex: the challenge of individual differences. Myasnikov AA, et al. **Brain Res** 1997 Mar 7; 750(1-2):95-108

Satietin: Fos mapping of putative brain sites of action. Rowland NE, et al. **Brain Res** 1996 Apr 22;717(1-2):189-92

Vestibular afferents to the dorsal vagal complex: substrate for vestibular-autonomic interactions in the rat. Ruggiero DA, et al. **Brain Res** 1996 Dec 16;743(1-2):294-302

Source localization of the N400 response in a sentence-reading paradigm using evoked magnetic fields and magnetic resonance imaging. Simos PG, et al. **Brain Res** 1997 Jul 11;762(1-2):29-39

A comparison of tone-evoked response properties of 'cluster' recordings and their constituent single cells in the auditory cortex. South DA, et al. **Brain Res** 1995 Dec 18; 704(2):275-88

Gonadal steroids regulate behavioral responses to pheromones by actions on a subdivision of the medial preoptic nucleus. Swann JM. **Brain Res** 1997 Mar 7; 750(1-2):189-94

Somatosensory evoked magnetic fields arising from sources in the human cerebellum. Tesche CD, et al. **Brain Res** 1997 Jan 2;744(1):23-31

Delayed development of spontaneous seizures and prolonged convulsive state in rats after massed stimulation of the anterior piriform cortex. Timofeeva OA, et al. **Brain Res** 1997 Apr 18;754(1-2):227-38

The effects of peripheral deafferentation on spontaneously bursting neurons in the somatosensory cortex of waking cats. Webster HH, et al. **Brain Res** 1997 Mar 7; 750(1-2):109-21

Delay in simple reaction time after focal transcranial magnetic stimulation of the human brain occurs at the final motor output stage. Ziemann U, et al. **Brain Res** 1997 Jan 2;744(1):32-40

Branched connections to the septum and to the entorhinal cortex from the hippocampus, amygdala, and diencephalon in the rat. Calderazzo L, et al. **Brain Res Bull** 1996; 40(4):245-51

A three-dimensional multimodality brain map of the nemestrina monkey. Cannestra AF, et al. **Brain Res Bull** 1997;43(2):141-8

A stereotaxic atlas of the basal ganglia in macaques. François C, et al. **Brain Res Bull** 1996;41(3):151-8

Prearcuate cortex in the Cebus monkey has cortical and subcortical connections like the macaque frontal eye field and projects to fastigial-recipient oculomotor-related brainstem nuclei. Leichnetz GR, et al. **Brain Res Bull** 1996; 41(1):1-29

Supraspinal influence on hindlimb withdrawal thresholds and mustard oil-induced secondary allodynia in rats. Mansikka H, et al. **Brain Res Bull** 1997;42(5):359-65

Mapping of cortical metabolic activation in soman-induced convulsions in rats. Scremin OU, et al. **Brain Res Bull** 1997; 43(4):425-34

Functional modular organization of the primate prefrontal cortex for representing working memory process. Sawaguchi T. **Brain Res Cogn Brain Res** 1996 Dec; 5(1-2):157-63 (31 ref.)

Multiple cortical motor areas and temporal sequencing of movements. Tanji J, et al. **Brain Res Cogn Brain Res** 1996 Dec;5(1-2):117-22 (66 ref.)

Non-invasive detection of neuronal population activity in human hippocampus. Tesche CD, et al. **Brain Res Cogn Brain Res** 1996 Jul;4(1):39-47

The hierarchical development of monkey visual cortical regions as revealed by the maturation of parvalbumin-immunoreactive neurons. Condé F, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1-2):261-76

The numerical matching of source and target populations in the CNS: the inferior olive to Purkinje cell projection. Herrup K, et al. **Brain Res Dev Brain Res** 1996 Oct 23; 96(1-2):28-35

Spinocerebellar mossy fiber terminal topography in the NR2C/PKC gamma double mutant cerebellum. Ji Z, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):138-42

The Engrailed-2 homeobox gene and patterning of spinocerebellar mossy fiber afferents. Vogel MW, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1-2):210-8

Neonatal capsaicin treatment alters the metabolic activity of subcortical somatosensory structures of developing rats in response to whisker stimulation. Wu CC. **Brain Res Dev Brain Res** 1996 Oct 23;96(1-2):295-8

Chronic cocaine increases neurotensin gene expression in the shell of the nucleus accumbens and in discrete regions of the striatum. Betancur C, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):334-40

SEZ-6: promoter selectivity, genomic structure and localized expression in the brain. Herbst R, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):309-22

5th German mapping meeting, Giessen: September 20-21, 1996. **Brain Topogr** 1997 Spring;9(3):219-28

The 7th International Congress of the International Society for Brain Electromagnetic Topography (ISBET), Rio de Janeiro, Brazil: October 14-17, 1996. **Brain Topogr** 1997 Spring;9(3):229-42

Mapping event-related brain potential microstates to sentence endings. Brandeis D, et al. **Brain Topogr** 1995 Winter;8(2):145-59

Mapping EEG-potentials on the surface of the brain: a strategy for uncovering cortical sources. Junghöfer M, et al. **Brain Topogr** 1997 Spring;9(3):203-17

Dissociation of cortical areas responsible for evoking excitatory and inhibitory responses in the small hand muscles. Lewko JP, et al. **Brain Topogr** 1996 Summer; 8(4):397-405

EEG power mapping, dipole source and coherence analysis in Chernobyl patients. Zhavoronkova LA, et al. **Brain Topogr** 1995 Winter;8(2):161-8

The premotor cortex and nonstandard sensorimotor mapping. Wise SP, et al. **Can J Physiol Pharmacol** 1996 Apr; 74(4):469-82 (92 ref.)

Failure to respond autonomically to anticipated future outcomes following damage to prefrontal cortex. Bechara A, et al. **Cereb Cortex** 1996 Mar-Apr;6(2):215-25

Limits of reorganization in cortical circuits [comment] Donoghue JP. **Cereb Cortex** 1997 Mar;7(2):97-9 (18 ref.) . Comment on: Cereb Cortex 1997 Mar;7(2):143-56.

Axonal processes and neural plasticity. II: Adult somatosensory maps. Elliott T, et al. **Cereb Cortex** 1996 Nov-Dec;6(6):789-93

Retinotopic organization in human visual cortex and the spatial precision of functional MRI. Engel SA, et al. **Cereb Cortex** 1997 Mar;7(2):181-92

Functional topography: multidimensional scaling and functional connectivity in the brain. Friston KJ, et al. **Cereb Cortex** 1996 Mar-Apr;6(2):156-64

Cortical projections of area V2 in the macaque. Gattas R, et al. **Cereb Cortex** 1997 Mar;7(2):110-29

Correlation between patterns of horizontal connectivity and the extend of short-term representational plasticity in rat motor cortex [see comments] Huntley GW. **Cereb Cortex** 1997 Mar;7(2):143-56. Comment in: Cereb Cortex 1997 Mar;7(2):97-9.

Human cingulate and paracingulate sulci: pattern, variability, asymmetry, and probabilistic map. Paus T, et al. **Cereb Cortex** 1996 Mar-Apr;6(2):207-14

Interhemispheric anatomical differences in human primary auditory cortex: probabilistic mapping and volume measurement from magnetic resonance scans. Penhune VB, et al. **Cereb Cortex** 1996 Sep-Oct;6(5):661-72

Neuroimaging for differentiating vascular from Alzheimer's dementias. Meyer JS, et al. **Cerebrovasc Brain Metab Rev** 1996 Spring;8(1):1-10 (51 ref.)

Auditory event-related potentials and statistical probability mapping in obsessive-compulsive disorder. de Groot CM, et al. **Clin Electroencephalogr** 1997 Jul;28(3):148-54

A 3D medical image database management system. Arya M, et al. **Comput Med Imaging Graph** 1996 Jul-Aug; 20(4):269-84

Postmortem cryosectioning as an anatomic reference for human brain mapping. Toga AW, et al. **Comput Med Imaging Graph** 1997 Mar-Apr;21(2):131-41

La Peyronie and the experimental search for the seat of the soul: neuropsychological methodology in the eighteenth century. Kaitaro T. **Cortex** 1996 Sep;32(3):557-64

Olfactory processing: maps, time and codes. Laurent G. **Curr Opin Neurobiol** 1997 Aug;7(4):547-53 (55 ref.)

The anatomical localization of saccades using functional imaging studies and transcranial magnetic stimulation. Carter N, et al. **Curr Opin Neurol** 1997 Feb;10(1):10-7 (47 ref.)

Neuropathological brain mapping. Brun A, et al. **Dement Geriatr Cogn Disord** 1997 Mar-Apr;8(2):123-7 (23 ref.)

Topography of auditory evoked long-latency potentials in children with severe language impairment: the P2 and N2 components. Tonnquist-Uhlén I. **Ear Hear** 1996 Aug; 17(4):314-26

Toward a dynamic topographic components model. Achim A, et al. **Electroencephalogr Clin Neurophysiol** 1997 Sep; 103(3):381-5

Event-related potentials to Italian spoken words. Cobianchi A, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 104(3):213-21

Ordinary least squares dipole localization is influenced by the reference. Huizenga HM, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec;99(6):562-7

Neuromagnetic localization of the late component of the contingent negative variation. Hultin L, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jun; 98(6):435-48

Topographic analyses of somatosensory evoked potentials following stimulation of tibial, sural and lateral femoral cutaneous nerves. Yamada T, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jan;100(1):33-43

Locating the cortical sources of somatosensory evoked responses by integration of EEG and MEG. Ossenblok P, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996; 46:183-91

Dipole modeling in epilepsy surgery candidates. Boon P, et al. **Epilepsia** 1997 Feb;38(2):208-18

Subdural recording of Bereitschaftspotential is useful for functional mapping of the epileptogenic motor area: a case report. Yazawa S, et al. **Epilepsia** 1997 Feb;38(2):245-8

Bilateral hippocampal interictal spiking and kindling expression in rabbits. Timofeeva OA, et al. **Epilepsy Res** 1996 Nov;25(3):149-59

Functional EEG mapping and SPECT in detoxified male alcoholics. Günther W, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(3):128-36

Event-related potential P300 microstate topography during visual one- and two-dimensional tasks in chronic schizophrenics. Kochi K, et al. **Eur Arch Psychiatry Clin Neurosci** 1996;246(6):288-96

Abnormal topography of EEG microstates in Gilles de la Tourette syndrome. Stevens A, et al. **Eur Arch Psychiatry Clin Neurosci** 1996;246(6):310-6

Sensory representation in the cerebellum and control circuits of motion. Arends JJ. **Eur J Morphol** 1997 Oct;35(4):234-45 (94 ref.)

Complexities in the thalamocortical and corticothalamic pathways. Adams NC, et al. **Eur J Neurosci** 1997 Feb; 9(2):204-9 (52 ref.)

Differential oscillatory properties of cholinergic and noncholinergic nucleus basalis neurons in guinea pig brain slice. Alonso A, et al. **Eur J Neurosci** 1996 Jan;8(1):169-82

Microinfusion of the metabotropic glutamate receptor agonist 1S,3R-1-aminocyclopentane-1,3-dicarboxylic acid into the nucleus accumbens induces dopamine-dependent locomotor activation in the rat. Attarian S, et al. **Eur J Neurosci** 1997 Apr;9(4):809-16

Magnetoencephalography may help to improve functional MRI brain mapping. Beisteiner R, et al. **Eur J Neurosci** 1997 May;9(5):1072-7

Functional demarcation of a border between areas V6 and V6A in the superior parietal gyrus of the macaque monkey. Galletti C, et al. **Eur J Neurosci** 1996 Jan;8(1):30-52

Sequential role of hippocampus and amygdala, entorhinal cortex and parietal cortex in formation and retrieval of memory for inhibitory avoidance in rats. Izquierdo I, et al. **Eur J Neurosci** 1997 Apr;9(4):786-93

Cortical networks for visual reaching: intrinsic frontal lobe connectivity. Johnson PB, et al. **Eur J Neurosci** 1996 Jul; 8(7):1358-62

Neurotensin excitation of serotonergic neurons in the dorsal raphe nucleus of the rat in vitro. Jolas T, et al. **Eur J Neurosci** 1996 Jan;8(1):153-61

C-fos expression during vocal mobbing in the new world monkey Saguinus fuscicollis. Jürgens U, et al. **Eur J Neurosci** 1996 Jan;8(1):2-10

Organization of pyramidal cell apical dendrites and

composition of dendritic clusters in the mouse: emphasis on primary motor cortex. Lev DL, et al. **Eur J Neurosci** 1997 Feb;9(2):280–90

Diversity of potassium channels contributing to differences in brain area–specific seizure susceptibility: sensitivity of different potassium channels to the epileptogenic agent pentylenetetrazol. Madeja M, et al. **Eur J Neurosci** 1997 Feb;9(2):390–5

Plasticity of metabolic whisker maps in somatosensory brainstem and thalamus of mice with neonatal lesions of whisker follicles. Melzer P, et al. **Eur J Neurosci** 1996 Sep; 8(9):1853–64

Modulation of cerebral blood flow in the human auditory cortex during speech: role of motor–to–sensory discharges. Paus T, et al. **Eur J Neurosci** 1996 Nov;8(11):2236–46

Assumptions and validations of statistical tests for functional neuroimaging [see comments] Roland PE, et al. **Eur J Neurosci** 1996 Nov;8(11):2232–5. Comment in: Eur J Neurosci 1996 Nov;8(11):2229–31.

Significance of the paralemniscal tegmental area for audio–motor control in the moustached bat, Pteronotus p. parnellii: the afferent off efferent connections of the paralemniscal area. Schuller G, et al. **Eur J Neurosci** 1997 Feb;9(2):342–55

The effects of lesions to the mammillary region and the hippocampus on conditional associative learning by rats. Sziklas V, et al. **Eur J Neurosci** 1996 Jan;8(1):106–15

A metabolic mapping study of orientation discrimination and detection tasks in the cat. Vanduffel W, et al. **Eur J Neurosci** 1997 Jun;9(6):1314–28

Effects of inferior temporal lesions on two types of orientation discrimination in the macaque monkey. Vogels R, et al. **Eur J Neurosci** 1997 Feb;9(2):229–45

Topographically organized climbing fibre sprouting in the adult rat cerebellum. Zagrebelsky M, et al. **Eur J Neurosci** 1996 May;8(5):1051–4

The side and somatotopical location of single small infarcts in the corona radiata and pontine base in relation to contralateral limb paresis and dysarthria. Tohgi H, et al. **Eur Neurol** 1996;36(6):338–42

Thalamic and temporal cortex input to medial prefrontal cortex in rhesus monkeys. Bachevalier J, et al. **Exp Brain Res** 1997 Jul;115(3):430–44

Topography and dipole analysis of reafferent electrical brain activity following the Bereitschaftspotential. Bötzel K, et al. **Exp Brain Res** 1997 Apr;114(2):352–61

Analysis of the step response of the saccadic feedback: system behavior. Breznen B, et al. **Exp Brain Res** 1996 Oct; 111(3):337–44

Movement-related potentials associated with movement preparation and motor imagery. Cunnington R, et al. **Exp Brain Res** 1996 Oct;111(3):429–36

Neural firing in ventrolateral thalamic nucleus during conditioned vocal behavior in cats. Farley GR. **Exp Brain Res** 1997 Jul;115(3):493–506

Contribution of the forebrain archistriatal gaze fields to auditory orienting behavior in the barn owl. Knudsen EI, et al. **Exp Brain Res** 1996 Feb;108(1):23–32

Diencephalic connections of the superior colliculus in the hedgehog tenrec. Künzle H. **Exp Brain Res** 1996 Oct; 111(3):356–70

Retinal projections to the accommodation-related area in the rostral superior colliculus of the cat. Ohtsuka K, et al. **Exp Brain Res** 1997 Jan;113(1):169–73

An electrophysiological study of the medial prefrontal cortical projection to the nucleus of the solitary tract in rat. Owens NC, et al. **Exp Brain Res** 1996 Jun;110(1):55–61

Neuronal connections of orbital cortex in rats: topography of cortical and thalamic afferents. Reep RL, et al. **Exp Brain Res** 1996 Sep;111(2):215–32

The nucleus retroambigualis controls laryngeal muscle activity during vocalization in the cat. Shiba K, et al. **Exp Brain Res** 1997 Jul;115(3):513–9

Scalp distribution of the attenuated EEG rhythmic activities for dissimilar and/or moving images in binocular vision. Kobayashi T, et al. **Front Med Biol Eng** 1996;7(2):143–53

Neurophysiology of converging synaptic inputs from the rat prefrontal cortex, amygdala, midline thalamus, and hippocampal formation onto single neurons of the caudate/putamen and nucleus accumbens. Finch DM. **Hippocampus** 1996;6(5):495–512

Entorhinal cortex of the rat: cytoarchitectonic subdivisions and the origin and distribution of cortical efferents. Insausti R, et al. **Hippocampus** 1997;7(2):146–83

Cognitive maps beyond the hippocampus. Redish AD, et al. **Hippocampus** 1997;7(1):15–35 (182 ref.)

A Bayesian approach to introducing anatomo-functional priors in the EEG/MEG inverse problem. Baillet S, et al. **IEEE Trans Biomed Eng** 1997 May;44(5):374–85

Testing peripheral somatosensory neuroprostheses by recording from raccoon cortex. Robinson CJ, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):75–80

Brain chaos and computation. Babloyantz A, et al. **Int J Neural Syst** 1996 Sep;7(4):461–71

Neuronal mechanisms underlying the interaction between visual landmarks and path integration in the rat. Knierim JJ, et al. **Int J Neural Syst** 1996 May;7(2):213–8

Topographical analyses of attention disorders of childhood. DeFrance JF, et al. **Int J Neurosci** 1996 Oct;87(1–2):41–61

Case study: topographical brain mapping in hostility following mild closed head injury. Demaree HA, et al. **Int J Neurosci** 1996 Oct;87(1–2):97–101

Mapping of serotonin transporter messenger RNA-containing nerve cell populations in the cat brainstem. Charnay Y, et al. **J Chem Neuroanat** 1996 Apr; 10(2):93–100

Nitric oxide in cortical map formation. Krekelberg B, et al. **J Chem Neuroanat** 1996 Jun;10(3–4):191–6

Immunohistochemical mapping of nitric oxide synthase in the rat hypothalamus and colocalization with neuropeptides. Yamada K, et al. **J Chem Neuroanat** 1996 Jun;10(3–4):295–316

Multichannel waveforms and topographic mapping of the auditory brainstem response under common stimulus and recording conditions. Norrix LW, et al. **J Commun Disord** 1996 May–Jun;29(3):157–82

Monosynaptic projections from the nucleus tractus solitarii to C1 adrenergic neurons in the rostral ventrolateral medulla: comparison with input from the caudal ventrolateral medulla. Aicher SA, et al. **J Comp Neurol** 1996 Sep 9;373(1):62–75

Neurochemical development of the hippocampal region in the fetal rhesus monkey, III: calbindin-D28K, calretinin and parvalbumin with special mention of cajal–retzius cells and the retrosplenial cortex. Berger B, et al. **J Comp Neurol** 1996 Mar 18;366(4):674–99

Spatial distribution of kainate receptor subunit mRNA in the mouse basal ganglia and ventral mesencephalon. Bischoff S, et al. **J Comp Neurol** 1997 Mar 24;379(4):541–62

Distinct lateral and medial projections of the spinohypothalamic tract of the rat. Burstein R, et al. **J Comp Neurol** 1996 Sep 30;373(4):549–74

Efferent pathways of the nucleus of the optic tract in monkey and their role in eye movements. Büttner–Ennever JA, et al. **J Comp Neurol** 1996 Sep 9;373(1):90–107

Connectional networks within the orbital and medial prefrontal cortex of macaque monkeys. Carmichael ST, et al. **J Comp Neurol** 1996 Jul 22;371(2):179–207

Insular cortex and neighboring fields in the cat: a redefinition based on cortical microarchitecture and connections with the thalamus. Clascá F, et al. **J Comp Neurol** 1997 Aug 4;384(3):456–82

Laminar distribution of neuropeptide Y–immunoreactive neurons in human prefrontal cortex during development. Delalle I, et al. **J Comp Neurol** 1997 Mar 24;379(4):515–22

Ultrastructural immunocytochemical localization of neurotensin and the dopamine D2 receptor in the rat nucleus accumbens. Delle Donne KT, et al. **J Comp Neurol** 1996 Aug 5;371(4):552–66

Vocal control pathways through the anterior forebrain of a parrot (Melopsittacus undulatus). Durand SE, et al. **J Comp Neurol** 1997 Jan 13;377(2):179–206

Fine structural organization of spinothalamic and trigeminothalamic lamina I terminations in the nucleus submedius of the cat. Ericson AC, et al. **J Comp Neurol** 1996 Aug 5;371(4):497–512

Immunocytochemistry and distribution of parabrachial terminals in the lateral geniculate nucleus of the cat: a comparison with corticogeniculate terminals. Erişir A, et al. **J Comp Neurol** 1997 Jan 27;377(4):535–49

Retinotopy of the human retinal nerve fibre layer and optic nerve head. Fitzgibbon T, et al. **J Comp Neurol** 1996 Nov 11;375(2):238–51

Central distribution and peripheral functional properties of afferent and efferent components of the superior laryngeal nerve: morphological and electrophysiological studies in the rat. Furusawa K, et al. **J Comp Neurol** 1996 Nov 4; 375(1):147–56

Manual dexterity and corticospinal connectivity following unilateral section of the cervical spinal cord in the macaque monkey. Galea MP, et al. **J Comp Neurol** 1997 May 12; 381(3):307–19

Anatomy of rat semaphorin III/collapsin-1 mRNA expression and relationship to developing nerve tracts during neuroembryogenesis. Giger RJ, et al. **J Comp Neurol** 1996 Nov 18;375(3):378–92

Octavolateral neurons projecting to the middle and posterior rhombencephalic reticular nuclei of larval lamprey: a retrograde horseradish peroxidase labeling study. González MJ, et al. **J Comp Neurol** 1997 Aug 4;384(3):396–408

Distribution of the mRNA for a pituitary adenylate cyclase–activating polypeptide receptor in the rat brain: an in situ hybridization study. Hashimoto H, et al. **J Comp Neurol** 1996 Aug 5;371(4):567–77

Axonal morphology in fibrodendritic laminae of the dorsal nucleus of the lateral lemniscus: afferent projections from the medial superior olivary nucleus. Henkel CK. **J Comp Neurol** 1997 Mar 31;380(1):136–44

Partial ablation of the neonatal external granular layer disrupts mossy fiber topography in the adult rat cerebellum. Ji Z, et al. **J Comp Neurol** 1996 Aug 5;371(4):578–88

Brainstem connections of the macula lagenae in the chicken. Kaiser A, et al. **J Comp Neurol** 1996 Oct 7;374(1):108–17

Use of calcium–binding proteins to map inputs in vestibular nuclei of the gerbil. Kevetter GA, et al. **J Comp Neurol** 1997 Sep 22;386(2):317–27

Distributed representation of vibrissa movement in the upper layers of somatosensory cortex revealed with voltage–sensitive dyes [published erratum appears in J Comp Neurol 1997 Feb 24;378(4):594] Kleinfeld D, et al. **J Comp Neurol** 1996 Nov 4;375(1):89–108

Efferents from the lateral frontal cortex to spinomedullary target areas, trigeminal nuclei, and spinally projecting brainstem regions in the hedgehog tenrec. Künzle H, et al. **J Comp Neurol** 1996 Aug 12;372(1):88–110

Connexin32 in oligodendrocytes and association with myelinated fibers in mouse and rat brain. Li J, et al. **J Comp Neurol** 1997 Mar 24;379(4):571–91

Representation of face and intra–oral structures in area 3b of macaque monkey somatosensory cortex. Manger PR, et al. **J Comp Neurol** 1996 Aug 5;371(4):513–21

Basal ganglia organization in amphibians: efferent connections of the striatum and the nucleus accumbens. Marín O, et al. **J Comp Neurol** 1997 Mar 31;380(1):23–50

Organization of the ambiguus nucleus in the frog (Rana esculenta). Matesz C, et al. **J Comp Neurol** 1996 Jul 22; 371(2):258–69

Gracile, cuneate, and spinal trigeminal projections to inferior olive in rat and monkey. Molinari HH, et al. **J Comp Neurol** 1996 Nov 18;375(3):467–80

Expression pattern of integrin beta 1 subunit in Purkinje cells of rat and cerebellar mutant mice. Murase S, et al. **J Comp Neurol** 1996 Nov 11;375(2):225–37

Serotonergic axonal contacts on identified cat trigeminal motoneurons and their correlation with medullary raphe nucleus stimulation. Nagase Y, et al. **J Comp Neurol** 1997 Aug 4;384(3):443–55

Midbrain dopaminergic neurons in the mouse: computer–assisted mapping. Nelson EL, et al. **J Comp Neurol** 1996 Jun 3;369(3):361–71

Non–mirror–symmetric patterns of callosal linkages in areas 17 and 18 in cat visual cortex. Olavarria JF. **J Comp Neurol** 1996 Mar 18;366(4):643–55

Expression of the mRNAs encoding the limbic system–associated membrane protein (LAMP): II. Fetal rat brain. Pimenta AF, et al. **J Comp Neurol** 1996 Nov 11; 375(2):289–302

Secondary vestibulo–oculomotor projections in larval sea lamprey: anterior octavomotor nucleus. Pombal MA, et al. **J Comp Neurol** 1996 Sep 2;372(4):568–80

Movement representation in the dorsal and ventral premotor areas of owl monkeys: a microstimulation study [published erratum appears in J Comp Neurol 1997 Jan 27;377(4):611] Preuss TM, et al. **J Comp Neurol** 1996 Aug 5;371(4):649–76

Serial and parallel processing in rhesus monkey auditory cortex. Rauschecker JP, et al. **J Comp Neurol** 1997 May 26;382(1):89–103

Expression of the mRNAs encoding the limbic system–associated membrane protein (LAMP): I. Adult rat brain. Reinoso BS, et al. **J Comp Neurol** 1996 Nov 11; 375(2):274–88

Collateralized divergent feedback connections that target multiple cortical areas. Rockland KS, et al. **J Comp Neurol** 1996 Sep 30;373(4):529–48

Expression of m1–m4 muscarinic acetylcholine receptor immunoreactivity in septohippocampal neurons and other identified hippocampal afferents. Rouse ST, et al. **J Comp Neurol** 1996 Nov 18;375(3):406–16

Mapping of the basal forebrain cholinergic system of the dog: a choline acetyltransferase immunohistochemical study. St-Jacques R, et al. **J Comp Neurol** 1996 Mar 18; 366(4):717–25

Distribution of descending projections from primary auditory neocortex to inferior colliculus mimics the topography of intracollicular projections. Saldaña E, et al. **J Comp Neurol** 1996 Jul 15;371(1):15–40

Ultrastructure and synaptology of the nucleus ambiguus in the rat: the semicompact and loose formations. Saxon DW, et al. **J Comp Neurol** 1996 Nov 4;375(1):109–27

A compartment–based, asymmetric representation of the retina in an induced projection to the olfactory cortex. Scalia F, et al. **J Comp Neurol** 1997 Jul 14;383(4):415–27

Origins and targets of commissural connections between the cochlear nuclei in guinea pigs. Schofield BR, et al. **J Comp Neurol** 1996 Nov 4;375(1):128–46

Initial cortical reactions to injury of the median and radial nerves to the hands of adult primates. Silva AC, et al. **J Comp Neurol** 1996 Mar 18;366(4):700–16

Retrograde transport of brain–derived neurotrophic factor (BDNF) following infusion in neo– and limbic cortex in rat: relationship to BDNF mRNA expressing neurons. Sobreviela T, et al. **J Comp Neurol** 1996 Nov 18; 375(3):417–44

Ventral pallidostriatal pathway in the monkey: evidence for modulation of basal ganglia circuits. Spooren WP, et al. **J Comp Neurol** 1996 Jul 1;370(3):295–312

Topographic patterns of V2 cortical connections in macaque monkeys. Stepniewska I, et al. **J Comp Neurol** 1996 Jul 15;371(1):129–52

Differential synaptic vesicle protein expression in the barrel field of developing cortex. Stettler O, et al. **J Comp Neurol** 1996 Nov 11;375(2):321–32

Morphology of neuropeptide Y–immunoreactive neurons and fibers in human prefrontal cortex during prenatal and postnatal development. Uylings HB, et al. **J Comp Neurol** 1997 Mar 24;379(4):523–40

Auditory pathways of caudal telencephalon and their relation to the song system of adult male zebra finches. Vates GE, et al. **J Comp Neurol** 1996 Mar 18;366(4):613–42

Immunoreactivity of central vasopressin and oxytocin pathways in microtine rodents: a quantitative comparative study. Wang Z, et al. **J Comp Neurol** 1996 Mar 18; 366(4):726–37

Afferent connections to the dorsal nucleus of the lateral lemniscus of the mustache bat: evidence for two functional subdivisions. Yang L, et al. **J Comp Neurol** 1996 Sep 30;

373(4):575–92
Early neurogenesis of the Drosophila brain. Younossi-Hartenstein A, et al. **J Comp Neurol** 1996 Jul 1;370(3):313–29
Reestablishment of the olivocerebellar projection map by compensatory transcommissural reinnervation following unilateral transection of the inferior cerebellar peduncle in the newborn rat. Zagrebelsky M, et al. **J Comp Neurol** 1997 Mar 10;379(2):283–99
The hippocampus as a cognitive graph. Muller RU, et al. **J Gen Physiol** 1996 Jun;107(6):663–94 (108 ref.)
Medullary catecholaminergic neurons projecting to lateral hypothalamic area and expressing Fos after chemical stimulation of the stomach in the rat. Dong YX, et al. **J Hirnforsch** 1997;38(1):3–7
Cognitive impairments after lesions of the neostriatum caudolaterale and its thalamic afferent in pigeons: functional similarities to the mammalian prefrontal system? Güntürkün O. **J Hirnforsch** 1997;38(1):133–43
Mapped auditory evoked potentials before and after interferon treatment. Malaguarnera M, et al. **J Interferon Cytokine Res** 1996 Jun;16(6):441–6
Signal-to-noise analysis of cerebral blood volume maps from dynamic NMR imaging studies. Boxerman JL, et al. **J Magn Reson Imaging** 1997 May-Jun;7(3):528–37
Functional MRI: a phrenology for the 1990's? [editorial] Cohen M. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):273–4
Prestimulus EEG microstates influence visual event-related potential microstates in field maps with 47 channels. Kondakor I, et al. **J Neural Transm** 1997;104(2–3):161–73
Glycinergic transmission regulates dendrite size in organotypic culture. Sanes DH, et al. **J Neurobiol** 1996 Dec;31(4):503–11
Predictors of stroke pattern in hypertensive patients. Lestro Henriques I, et al. **J Neurol Sci** 1996 Dec;144(1–2):142–6
Activation of prefrontal and posterior superior temporal areas in visual calculation. Sakurai Y, et al. **J Neurol Sci** 1996 Jul;139(1):89–94
Representation of frequency in the primary auditory field of the barn owl forebrain. Cohen YE, et al. **J Neurophysiol** 1996 Dec;76(6):3682–92
Functional properties of neurons in macaque area V3. Gegenfurtner KR, et al. **J Neurophysiol** 1997 Apr; 77(4):1906–23
Form processing modules in primate area V4. Ghose GM, et al. **J Neurophysiol** 1997 Apr;77(4):2191–6
Independent feedback control of horizontal and vertical amplitude during oblique saccades evoked by electrical stimulation of the superior colliculus. Nichols MJ, et al. **J Neurophysiol** 1996 Dec;76(6):4080–93
Structural and functional alterations in rat corticospinal neurons after axotomy. Tseng GF, et al. **J Neurophysiol** 1996 Jan;75(1):248–67
Oscillatory and burst discharge across electrosensory topographic maps. Turner RW, et al. **J Neurophysiol** 1996 Oct;76(4):2364–82
Parallel processing in cerebral cortex of the marmoset monkey: effect of reversible SI inactivation on tactile responses in SII. Zhang HQ, et al. **J Neurophysiol** 1996 Dec;76(6):3633–55
Time course of cortical activations in implicit and explicit recall. Badgaiyan RD, et al. **J Neurosci** 1997 Jun 15; 17(12):4904–13
Local release of GABAergic inhibition in the motor cortex induces immediate-early gene expression in indirect pathway neurons of the striatum. Berretta S, et al. **J Neurosci** 1997 Jun 15;17(12):4752–63
Physiological mapping of local inhibitory inputs to the hypothalamic paraventricular nucleus. Boudaba C, et al. **J Neurosci** 1996 Nov 15;16(22):7151–60
Generalization to local remappings of the visuomotor coordinate transformation. Ghahramani Z, et al. **J Neurosci** 1996 Nov 1;16(21):7085–96
How is a sensory map read Out? Effects of microstimulation in visual area MT on saccades and smooth pursuit eye movements. Groh JM, et al. **J Neurosci** 1997 Jun 1; 17(11):4312–30
Parallel medullary gustatospinal pathways in a catfish: possible neural substrates for taste-mediated food search. Kanwal JS, et al. **J Neurosci** 1997 Jun 15;17(12):4873–85
Hand/face border as a limiting boundary in the body representation in monkey somatosensory cortex. Manger PR, et al. **J Neurosci** 1997 Aug 15;17(16):6338–51
Functional neuroanatomy of human slow wave sleep. Maquet P, et al. **J Neurosci** 1997 Apr 15;17(8):2807–12
Ventral prefrontal cortex is not essential for working memory. Rushworth MF, et al. **J Neurosci** 1997 Jun 15; 17(12):4829–38
The role of activity in the development of long-range horizontal connections in area 17 of the ferret. Ruthazer ES, et al. **J Neurosci** 1996 Nov 15;16(22):7253–69
Functional organization for direction of motion and its relationship to orientation maps in cat area 18. Shmuel A, et al. **J Neurosci** 1996 Nov 1;16(21):6945–64
Attention to one or two features in left or right visual field: a positron emission tomography study. Vandenberghe R, et al. **J Neurosci** 1997 May 15;17(10):3739–50
Functional magnetic resonance imaging of the human brain. Kim SG, et al. **J Neurosci Methods** 1997 Jun 27; 74(2):229–43 (132 ref.)
A deep vein thrombosis prevention program for patients undergoing long-term invasive epilepsy monitoring. Cysyk BJ, et al. **J Neurosci Nurs** 1996 Oct;28(5):298–304 (37 ref.)
Differentiation of receptive fields in the sensory cortex following stimulation of various nerves of the lower limb in humans: a magnetoencephalographic study. Shimojo M, et al. **J Neurosurg** 1996 Aug;85(2):255–62
Utility of relative cerebral blood volume mapping derived from perfusion magnetic resonance imaging in the routine follow up of brain tumors. Siegal T, et al. **J Neurosurg** 1997 Jan;86(1):22–7
Parallel organization of proprioceptive inputs from joint receptors to cortical somatosensory areas I and II in the cat. Mackie PD, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):529–37
Effect of midbrain stimulations on thermoregulatory vasomotor responses in rats. Zhang YH, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):177–86
Spatio-temporal characteristics of paroxysmal interictal events in human temporal lobe epilepsy. Badier JM, et al. **J Physiol Paris** 1995;89(4–6):255–64
Mechanisms underlying experience-dependent potentiation and depression of vibrissae responses in barrel cortex. Fox K, et al. **J Physiol Paris** 1996;90(3–4):263–9
Studies of functional connectivity in the developing and mature visual cortex. Freeman RD. **J Physiol Paris** 1996; 90(3–4):199–203
Functional structuration of the cerebellar efferent network involved in forelimb control, during processing of an associative conditioning. Rispal-Padel L, et al. **J Physiol Paris** 1996;90(5–6):373–9
Precise timing of neuronal discharges within and across cortical areas: implications for synaptic transmission. Singer W, et al. **J Physiol Paris** 1996;90(3–4):221–2
Experience-induced plasticity of cutaneous maps in the primary somatosensory cortex of adult monkeys and rats. Xerri C, et al. **J Physiol Paris** 1996;90(3–4):277–87
Identification of brain region for coordinating speech articulation. Donnan GA, et al. **Lancet** 1997 Jan 25; 349(9047):221–2
Precise localisation of single-word retrieval in the left cerebral hemisphere. Hoell T, et al. **Lancet** 1997 Jan 11; 349(9045):104
The functional scout image: immediate mapping of cortical function at 4 Tesla using receiver phase cycling. Goodyear BG, et al. **Magn Reson Med** 1997 Aug;38(2):183–6
Evaluation of the early response in fMRI in individual subjects using short stimulus duration. Hu X, et al. **Magn Reson Med** 1997 Jun;37(6):877–84
Noise-driven neuroplasticity in self-organizing feature maps: a neurocomputational model of phantom limbs. Spitzer M. **MD Comput** 1997 May-Jun;14(3):192–9
Fluctuations in the cerebral oxygenation state during the resting period in functional mapping studies of the human brain. Hoshi Y, et al. **Med Biol Eng Comput** 1997 Jul; 35(4):328–30
Matching of digitised brain atlas to magnetic resonance images. Sorlié C, et al. **Med Biol Eng Comput** 1997 May; 35(3):239–45
Signal-space projection method for separating MEG or EEG into components. Uusitalo MA, et al. **Med Biol Eng Comput** 1997 Mar;35(2):135–40
Functional neuroimaging of hallucinations in schizophrenia: toward an integration of bottom-up and top-down approaches. Silbersweig D, et al. **Mol Psychiatry** 1996 Nov; 1(5):367–75 (100 ref.)
Tracing the brain's circuitry with functional imaging [news; comment] Grafton ST, et al. **Nat Med** 1997 Jun;3(6):602–3 . Comment on: Nat Med 1997 Jun;3(6):671–4.
Multistability of cognitive maps in the hippocampus of old rats. Barnes CA, et al. **Nature** 1997 Jul 17;388(6639):272–5
Role of posterior parietal cortex in the recalibration of visually guided reaching. Clower DM, et al. **Nature** 1996 Oct 17;383(6601):618–21
Temporal dynamics of brain activation during a working memory task [see comments] Cohen JD, et al. **Nature** 1997 Apr 10;386(6625):604–8. Comment in: Nature 1997 Apr 10;386(6625):559–60.
Transient and sustained activity in a distributed neural system for human working memory [see comments] Courtney SM, et al. **Nature** 1997 Apr 10;386(6625):608–11. Comment in: Nature 1997 Apr 10;386(6625):559–60.
Functional imaging of an illusion of pain [see comments] Craig AD, et al. **Nature** 1996 Nov 21;384(6606):258–60. Comment in: Nature 1996 Nov 21;384(6606):217–8.
Distortions of visuotopic map match orientation singularities in primary visual cortex. Das A, et al. **Nature** 1997 Jun 5;387(6633):594–8
Dissociating prefrontal and hippocampal function in episodic memory encoding. Dolan RJ, et al. **Nature** 1997 Aug 7; 388(6642):582–5
A new brain region for coordinating speech articulation. Dronkers NF. **Nature** 1996 Nov 14;384(6605):159–61
Colour tuning in human visual cortex measured with functional magnetic resonance imaging [see comments] Engel S, et al. **Nature** 1997 Jul 3;388(6637):68–71. Comment in: Nature 1997 Jul 3;388(6637):23–4.
Visual neurobiology. Colouring the cortex [news; comment] Gegenfurtner KR. **Nature** 1997 Jul 3;388(6637):23–4. Comment on: Nature 1997 Jul 3;388(6637):68–71.
Evidence for a sound movement area in the human cerebral cortex. Griffiths TD, et al. **Nature** 1996 Oct 3; 383(6599):425–7
Distinct cortical areas associated with native and second languages. Kim KH, et al. **Nature** 1997 Jul 10; 388(6638):171–4
Disruption of auditory spatial working memory by inactivation of the forebrain archistriatum in barn owls. Knudsen EI, et al. **Nature** 1996 Oct 3;383(6599):428–31
A differential neural response in the human amygdala to fearful and happy facial expressions. Morris JS, et al. **Nature** 1996 Oct 31;383(6603):812–5
A specific neural substrate for perceiving facial expressions of disgust. Phillips ML, et al. **Nature** 1997 Oct 2; 389(6650):495–8
Representation of motion boundaries in retinotopic human visual cortical areas. Reppas JB, et al. **Nature** 1997 Jul 10; 388(6638):175–9
Development of oriented ocular dominance bands as a consequence of areal geometry. Bauer HU. **Neural Comput** 1995 Jan;7(1):36–50
Singularities in primate orientation maps. Obermayer K, et al. **Neural Comput** 1997 Apr 1;9(3):555–75
Topographic receptive fields and patterned lateral interaction in a self-organizing model of the primary visual cortex. Sirosh J, et al. **Neural Comput** 1997 Apr 1;9(3):577–94
Increased acetylcholinesterase activity in selected regions of rat brain after chronic (–)-deprenyl administration. Lakshmana MK, et al. **Neurochem Res** 1996 Oct; 21(10):1209–12
M1 acetylcholine receptor stimulation increases the extracellular concentrations of glutamate and GABA in the medial prefrontal cortex of the rat. Sanz B, et al. **Neurochem Res** 1997 Mar;22(3):281–6
Motor imagery—anatomical representation and electrophysiological characteristics. Stephan KM, et al. **Neurochem Res** 1996 Sep;21(9):1105–16
Experience with transcranial magnetic stimulation in cortical mapping. Bondurant CP, et al. **Neurol Res** 1997 Aug; 19(4):435–40
Surgical results and the related topographic anatomy in paraclinoid internal carotid artery aneurysms. Nagasawa S, et al. **Neurol Res** 1996 Oct;18(5):401–8
Functional MRI mapping of occipital and frontal cortical activity during voluntary and imagined saccades. Bodis-Wollner I, et al. **Neurology** 1997 Aug;49(2):416–20
Relationship between the ocular dominance and orientation maps in visual cortex of monocularly deprived cats. Crair MC, et al. **Neuron** 1997 Aug;19(2):307–18
Looking into the black box: new directions in neuroimaging. Engel SA. **Neuron** 1996 Sep;17(3):375–8 (25 ref.)
Nitric oxide production by brain stem neurons is required for normal performance of eye movements in alert animals. Moreno-López B, et al. **Neuron** 1996 Oct;17(4):739–45
A quarter of a century of place cells. Muller R. **Neuron** 1996 Nov;17(5):813–22 (50 ref.)
Mechanisms of central motor reorganization in pediatric hemiplegic patients. Maegaki Y, et al. **Neuropediatrics** 1997 Jun;28(3):168–74
Three dimensional image reconstruction of neuroanatomical structures: methods for isolation of the cortex, ventricular system, hippocampus, and fornix. Hopkins RO, et al. **Neuropsychol Rev** 1997 Jun;7(2):87–104
c-fos expression in the accessory oculomotor nuclei following neocerebellar stimulation. Bosco G, et al. **Neuroreport** 1996 Sep 2;7(13):2135–8
The cervicothalamic tract terminates in Cat301-sparse regions of the cat VPL. Broman J, et al. **Neuroreport** 1996 Jun 17;7(9):1493–6
Short duration synchronization of human theta rhythm during recognition memory. Burgess AP, et al. **Neuroreport** 1997 Mar 3;8(4):1039–42
Reciprocal talk between the auditory thalamus and the hypothalamus: an antidromic study. Cheng MF, et al. **Neuroreport** 1997 Feb 10;8(3):653–8
Auditory hallucinations inhibit exogenous activation of auditory association cortex. David AS, et al. **Neuroreport** 1996 Mar 22;7(4):932–6
Cerebral activation during the exertion of sustained static force in man. Dettmers C, et al. **Neuroreport** 1996 Sep 2; 7(13):2103–10
Visual working memory for shape and 3D-orientation: a PET study. Faillenot I, et al. **Neuroreport** 1997 Mar 3;8(4):859–62
Functional neuroanatomy of robbery re-experience: affective memories studied with PET. Fischer H, et al. **Neuroreport** 1996 Sep 2;7(13):2081–6
Mental navigation along memorized routes activates the hippocampus, precuneus, and insula. Ghaem O, et al. **Neuroreport** 1997 Feb 10;8(3):739–44
Non-invasive functional mapping of the human motor cortex using near-infrared spectroscopy. Hirth C, et al. **Neuroreport** 1996 Aug 12;7(12):1977–81
Expression of the neuropeptide Y Y1 receptor mRNA in the human brain: an in situ hybridization study. Jacques D, et al. **Neuroreport** 1996 Apr 10;7(5):1053–6
Human cortical area responding to stimuli in apparent motion. Kaneoke Y, et al. **Neuroreport** 1997 Feb 10; 8(3):677–82
Topographic representation in human intraparietal sulcus of reaching and saccade. Kawashima R, et al. **Neuroreport** 1996 May 17;7(7):1253–6
In vivo intracellular recording and labeling of neurons in the forepaw barrel subfield (FBS) of rat somatosensory cortex: possible physiological and morphological substrates for reorganization. Li CX, et al. **Neuroreport** 1996 Oct 2; 7(14):2261–72

Neural correlates of thinking in sign language. McGuire PK, et al. **Neuroreport** 1997 Feb 10;8(3):695–8
Brain activity during stimulus independent thought. McGuire PK, et al. **Neuroreport** 1996 Sep 2;7(13):2095–9
Event-related gamma band activity during passive and active oddball tasks. Marshall L, et al. **Neuroreport** 1996 Jun 17; 7(9):1517–20
Organization of face representation in the cingulate cortex of the rhesus monkey. Morecraft RJ, et al. **Neuroreport** 1996 May 31;7(8):1343–8
Effects of inactivation of the magnocellular preoptic nucleus of olfactory bulb processing. Paolini AG, et al. **Neuroreport** 1997 Mar 3;8(4):929–35
Glutamatergic projections from the rostral hypothalamus to the periaqueductal grey. Parry DM, et al. **Neuroreport** 1996 Jun 17;7(9):1536–40
Reorganization of human cortical motor output maps following traumatic forearm amputation. Pascual-Leone A, et al. **Neuroreport** 1996 Sep 2;7(13):2068–70
Relationship between representation of hindpaw and hindpaw barrel subfield (HBS) in layer IV of rat somatosensory cortex. Pearson PP, et al. **Neuroreport** 1996 Oct 2;7(14):2317–23
A tangential neuronal migration in the olfactory bulbs of adult lizards. Peñafiel A, et al. **Neuroreport** 1996 May 17; 7(7):1257–60
The cortical processing of perceived emotion: a DC-potential study on affective speech prosody. Pihan H, et al. **Neuroreport** 1997 Feb 10;8(3):623–7
Neuronal subpopulations in the suprachiasmatic nuclei based on their response to retinal and intergeniculate leaflet stimulation. Roig JA, et al. **Neuroreport** 1997 Mar 3; 8(4):885–9
Topography of spatially enhanced human short-latency somatosensory evoked potentials. Rossini PM, et al. **Neuroreport** 1997 Mar 3;8(4):991–4
Release of cerebral acetylcholine increases during visually mediated behavior in monkeys. Tang Y, et al. **Neuroreport** 1996 Sep 2;7(13):2231–5
Brain topography of the human sleep EEG: antero-posterior shifts of spectral power. Werth E, et al. **Neuroreport** 1996 Dec 20;8(1):123–7
A nigro-rubro-bulbar pathway to the parvicellular reticular formation in the rat. Yasui Y, et al. **Neuroreport** 1996 Apr 26;7(6):1157–60
Mechanisms of binocular interaction in the visual cortex of rodents. Bondar GG. **Neurosci Behav Physiol** 1997 Mar-Apr;27(2):159–65
Pump neurons of the nucleus of the solitary tract project widely to the medulla. Ezure K, et al. **Neurosci Lett** 1996 Sep 6;215(2):123–6
Motivation-dependent activity in the dorsolateral part of the prefrontal cortex in the monkey. Gemba H, et al. **Neurosci Lett** 1997 Jul 18;230(2):133–6
Topography of brain electrical activity dissociates the retrieval of spatial versus verbal information from episodic long-term memory in humans. Heil M, et al. **Neurosci Lett** 1997 Jan 24;222(1):45–8
Pharmacological characterization of CCKB receptors in human brain: no evidence for receptor heterogeneity. Kinze S, et al. **Neurosci Lett** 1996 Oct 11;217(1):45–9
Cerebello-cerebral projections onto the ventral part of the frontal cortex of the macaque monkey. Kyuhou S, et al. **Neurosci Lett** 1997 Jul 18;230(2):101–4
Evidence for reactive magnetic 10-Hz rhythm in the human auditory cortex. Lehtelä L, et al. **Neurosci Lett** 1997 Jan 31;222(2):111–4
Gustatory evoked magnetic fields in humans. Murayama N, et al. **Neurosci Lett** 1996 May 31;210(2):121–3
Focal brain stimulation in healthy humans: motor maps changes following partial hand sensory deprivation. Rossini PM, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):191–5
The lateral geniculate nucleus does not project to area TE in infant or adult macaques. Sorenson KM, et al. **Neurosci Lett** 1996 Oct 11;217(1):5–8
Projections from dorsal raphe nucleus to the periaqueductal grey matter: studies in slices of rat midbrain maintained in vitro. Stezhka VV, et al. **Neurosci Lett** 1997 Jul 11; 230(1):57–60
Mapping of cortical areas involved in color vision in non-human primates. Takechi H, et al. **Neurosci Lett** 1997 Jul 11;230(1):17–20
The effect of dark-rearing, strobe-rearing and acute visual cortex removal on the visual responses in the superficial superior colliculus of the guinea-pig. Thornton SK, et al. **Neurosci Lett** 1996 Aug 9;213(3):216–20
Dynamical organisation of the human visual system revealed by lifetimes of activation traces. Uusitalo MA, et al. **Neurosci Lett** 1996 Aug 9;213(3):149–52
Non-invasive functional mapping with multi-channel near infra-red spectroscopic topography in humans. Watanabe E, et al. **Neurosci Lett** 1996 Feb 16;205(1):41–4
Topographic distribution and collateral projections of the two major populations of nigrothalamic neurons. A retrograde labeling study in the rat. Nishimura Y, et al. **Neurosci Res** 1997 May;28(1):1–9
Direct projections from the entorhinal area to the anteroventral and laterodorsal thalamic nuclei in the rat. Shibata H. **Neurosci Res** 1996 Sep;26(1):83–7
Hypoxia-induced Fos expression in neurons projecting to the pressor region in the rostral ventrolateral medulla. Hirooka Y, et al. **Neuroscience** 1997 Oct;80(4):1209–24
Endogenous opioid-mediated inhibition of putative pain-modulating neurons in rat rostral ventromedial medulla. Pan ZZ, et al. **Neuroscience** 1996 Oct;74(3):855–62
Endogenous opioids acting at a medullary mu-opioid receptor contribute to the behavioral antinociception produced by GABA antagonism in the midbrain periaqueductal gray. Roychowdhury SM, et al. **Neuroscience** 1996 Oct;74(3):863–72
Face-specific responses from the human inferior occipito-temporal cortex. Sams M, et al. **Neuroscience** 1997 Mar;77(1):49–55
Generators for human P300 elicited by somatosensory stimuli using multiple dipole source analysis. Tarkka IM, et al. **Neuroscience** 1996 Nov;75(1):275–87
Functional characterization of caudal hypoglossal neurons by spectral patterns of neuronal discharges in the rat. Yang CC, et al. **Neuroscience** 1997 Apr;77(3):813–27
Somatosensory evoked potential phase reversal and direct motor cortex stimulation during surgery in and around the central region. Cedzich C, et al. **Neurosurgery** 1996 May; 38(5):962–70
Functional magnetic resonance imaging mapping of the motor cortex in patients with cerebral tumors. Mueller WM, et al. **Neurosurgery** 1996 Sep;39(3):515–20; discussion 520–1
Preserved function in brain invaded by tumor. Ojemann JG, et al. **Neurosurgery** 1996 Aug;39(2):253–8; discussion 258–9
Human opioid receptors: chromosomal mapping and mRNA localization. Miotto K, et al. **NIDA Res Monogr** 1996; 161:72–82 (34 ref.)
Electrophysiological alterations in hepatic encephalopathy detected by brain mapping. Malaguarnera M, et al. **Panminerva Med** 1996 Jun;38(2):84–8
Intra-arcuate opiate actions stimulate GRF-dependent and protein-selective feeding. Vaccarino FJ, et al. **Peptides** 1997;18(2):197–205
A Web-based repository manager for brain mapping data. Jakobovits RM, et al. **Proc AMIA Annu Fall Symp** 1996; :309–13
Informatics and computational neuroanatomy. Toga AW, et al. **Proc AMIA Annu Fall Symp** 1996;:299–303
Neural mechanisms underlying binocular fusion and stereopsis: position vs. phase. Anzai A, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5438–43
Dual activity maps in primate visual cortex produced by different temporal patterns of zif268 mRNA and protein expression. Chaudhuri A, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2671–5
Event-related brain potential correlates of two states of conscious awareness in memory. Düzel E, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5973–8
Ensemble codes involving hippocampal neurons are at risk during delayed performance tests. Hampson RE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13487–93
When the brain changes its mind: interocular grouping during binocular rivalry. Kovács I, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15508–11
Progressive entorhinal cortex lesions accelerate hippocampal sprouting and spare spatial memory in rats. Ramirez JJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15512–7
Influences on the global structure of cortical maps. Goodhill GJ, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22; 264(1382):649–55
Neural responses to salient visual stimuli. Morris JS, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):769–75
Spatial distribution of tectotectal connections in the cat. Behan M, et al. **Prog Brain Res** 1996;112:131–42
Visual, somatosensory and auditory modality properties along the feline suprageniculate-anterior ectosylvian sulcus/insular pathway. Benedek G, et al. **Prog Brain Res** 1996;112:325–34
Is the cerebellum sensory for motor's sake, or motor for sensory's sake: the view from the whiskers of a rat? Bower JM. **Prog Brain Res** 1997;114:463–96 (193 ref.)
Motion sensitivity and stimulus interactions in the striate-recipient zone of the cat's lateral posterior-pulvinar complex. Casanova C, et al. **Prog Brain Res** 1996; 112:277–87
Extensive cortical reorganization following sciatic nerve injury in adult rats versus restricted reorganization after neonatal injury: implications for spatial and temporal limits on somatosensory plasticity. Cusick CG. **Prog Brain Res** 1996;108:379–90 (75 ref.)
Areas PMLS and 21a of cat visual cortex are not only functionally but also hodologically distinct. Dreher B, et al. **Prog Brain Res** 1996;112:251–76
The control of forelimb movements by intermediate cerebellum. Ekerot CF, et al. **Prog Brain Res** 1997; 114:423–9 (21 ref.)
Mapping cerebral sites for emotion and emotional expression with direct cortical electrical stimulation and seizure discharges. Gordon B, et al. **Prog Brain Res** 1996; 107:617–22
Rostral brain regions contributing to respiratory control. Harper RM, et al. **Prog Brain Res** 1996;107:145–56 (76 ref.)
The emotional motor system. Holstege G, et al. **Prog Brain Res** 1996;107:3–6
The somatic motor system. Holstege G. **Prog Brain Res** 1996; 107:9–26 (81 ref.)
The mosaic architecture of the superior colliculus. Illing RB. **Prog Brain Res** 1996;112:17–34
Theories of visual cortex organization in primates: areas of the third level. Kaas JH. **Prog Brain Res** 1996;112:213–21 (53 ref.)
The development of topographically-aligned maps of visual and auditory space in the superior colliculus. King AJ, et al. **Prog Brain Res** 1996;112:335–50
The greater limbic system, the emotional motor system and the brain. Nieuwenhuys R. **Prog Brain Res** 1996;107:551–80 (115 ref.)
Networks related to the orbital and medial prefrontal cortex; a substrate for emotional behavior? Price JL, et al. **Prog Brain Res** 1996;107:523–36 (30 ref.)
Hemispheric specialization for emotions, affective aspects of language and communication and the cognitive control of display behaviors in humans. Ross ED. **Prog Brain Res** 1996;107:583–94 (131 ref.)
A proposed reorganization of the cortical input-output system. Tamai Y. **Prog Brain Res** 1996;112:373–84 (27 ref.)
Sensory organization of the superior colliculus in cat and monkey. Wallace MT, et al. **Prog Brain Res** 1996; 112:301–11
What do developmental mapping rules optimize? Xiong M, et al. **Prog Brain Res** 1996;112:351–61 (43 ref.)
The microscopic anatomy and physiology of the mammalian saccadic system. Moschovakis AK, et al. **Prog Neurobiol** 1996 Oct;50(2–3):133–254 (699 ref.)
Spatial relationships of neuroanatomic landmarks in schizophrenia. DeQuardo JR, et al. **Psychiatry Res** 1996 May 31;67(1):81–95
Whole-brain functional mapping with isotropic MR imaging. Mattay VS, et al. **Radiology** 1996 Nov;201(2):399–404
Topography of auditory evoked cortical potentials in children with severe language impairment. Tonnquist-Uhlén I. **Scand Audiol Suppl** 1996;44:1–40
Neuroscientists seek answers to brain function and disease. The anatomy of learning [news] Barinaga M. **Science** 1996 Dec 6;274(5293):1612
Brain regions responsive to novelty in the absence of awareness. Berns GS, et al. **Science** 1997 May 23; 276(5316):1272–5
Orientation selectivity in pinwheel centers in cat striate cortex. Maldonado PE, et al. **Science** 1997 Jun 6; 276(5318):1551–5
Pain affect encoded in human anterior cingulate but not somatosensory cortex. Rainville P, et al. **Science** 1997 Aug 15;277(5328):968–71
Brain activation and sentence comprehension [letter; comment] Rapp B, et al. **Science** 1997 Feb 14; 275(5302):912–3. Comment on: Science 1996 Oct 4;274(5284):114–6.
Orientation maps of subjective contours in visual cortex. Sheth BR, et al. **Science** 1996 Dec 20;274(5295):2110–5
Topographical and temporal patterns of brain activity during the transition from wakefulness to sleep. Wright KP Jr, et al. **Sleep** 1995 Dec;18(10):880–9
Barrels: 25 years later. Woolsey TA. **Somatosens Mot Res** 1996;13(3–4):181–6
Mapping of motor cortical reorganization after stroke. A brain stimulation study with focal magnetic pulses. Traversa R, et al. **Stroke** 1997 Jan;28(1):110–7
Engrailed and retinotectal topography. Rétaux S, et al. **Trends Neurosci** 1996 Dec;19(12):542–6 (56 ref.)
[Unity or mosaic? The development of considering the site-association of bodily functions to the brain (letter; comment)] Praamstra P. **Ned Tijdschr Geneeskd** 1997 Mar 1;141(9):445–6. Comment on: Ned Tijdschr Geneeskd 1996 Dec 21;140(51):2564–9. **(Dut)**
[Is the topography of Alzheimer's disease lesions a clue to their pathogenesis?] Duyckaerts C, et al. **Bull Acad Natl Med** 1996 Oct;180(7):1703–14 (Eng. Abstr.) **(Fre)**
[Neuroradiologic activation studies of cerebral organization of language capacities. A review of the literature] Ackermann H, et al. **Fortschr Neurol Psychiatr** 1997 Apr; 65(4):182–94 (125 ref.) (Eng. Abstr.) **(Ger)**
[Carotid TEA in asymptomatic stenoses—is intraoperative monitoring a conditio sine qua non?] Hamann HG. **Zentralbl Chir** 1996;121(12):1045–8 (Eng. Abstr.) **(Ger)**
[Clinical application of functional mapping; the present state of the art and its future prospects: (series 2) Identification of motor, sensory, visual and speech cortex by functional MRI] Ito T, et al. **No Shinkei Geka** 1996 Feb;24(2):109–18 (23 ref.) **(Jpn)**
[Resection of glioma located in deep or eloquent area: application of functional mapping, intraoperative monitoring and navigation with CT or MRI-assisted stereotactic guidance] Matsumoto K, et al. **No Shinkei Geka** 1997 Jan;25(1):17–28 (58 ref.) **(Jpn)**
[Clinical application of functional mapping; the present state of the art and its future prospects: (series 3) functional brain mapping using evoked magnetic fields] Nakasato N, et al. **No Shinkei Geka** 1996 Apr;24(4):305–10 (46 ref.) **(Jpn)**
[Practical localization of the central sulcus using a video display during surgery by cortical somatosensory evoked potentials and how to discern precentral P20 and central P25] Namiki J, et al. **No Shinkei Geka** 1997 Feb;25(2):123–9 (Eng. Abstr.) **(Jpn)**
[Localization of epileptogenic foci and visualization of propagating process in the seizure discharges using crosscorrelation analysis] Matsumoto-Mizuno Y, et al. **No To Shinkei** 1997 Jan;49(1):59–64 (Eng. Abstr.) **(Jpn)**
[Clinical application of magnetoencephalography (MEG): a review of recent progress] Nakasato N, et al.

No To Shinkei 1996 Feb;49(2):113-20 (75 ref.) **(Jpn)**
[Topographic analysis of resting EEG and photic driving responses in patients with presenile Alzheimer's disease] Nanbu Y, et al. **Rinsho Byori** 1997 Mar;45(3):277-81 (Eng. Abstr.) **(Jpn)**
[Quantitative and topographical analysis of EEG: its application in some psychiatric disorders] Dróżdż W, et al. **Psychiatr Pol** 1995 Nov-Dec;29(6):827-38 (28 ref.) (Eng. Abstr.) **(Pol)**
[Digital EEG with brain mapping in Alzheimer's dementia and Parkinson's disease. A prospective controlled study] Sandmann MC, et al. **Arq Neuropsiquiatr** 1996 Mar; 54(1):50-6 (Eng. Abstr.) **(Por)**
[Cross-correlations of electrical processes in the human brain during involvement in pathological processes in the limbic structures] Boldyreva GN, et al. **Fiziol Cheloveka** 1997 Mar-Apr;23(2):42-9 **(Rus)**
[Cerebral organization of cognitive processes at preschool age] Farber DA, et al. **Fiziol Cheloveka** 1997 Mar-Apr; 23(2):25-32 **(Rus)**
[The age-related characteristics of the cerebral organization of verbal activity: an electrophysiological analysis] Kulakovskiĭ IuV, et al. **Fiziol Cheloveka** 1997 May-Jun; 23(3):122-4 **(Rus)**
[Role of various cortical areas and their connections in the formation of spatial ordering in the field of brain biopotentials during postnatal ontogenesis] Shepoval'nikov AN, et al. **Fiziol Cheloveka** 1997 Mar-Apr;23(2):12-24 **(Rus)**
[Temporal signal processing in the visual cortex] Shevelev IA. **Fiziol Cheloveka** 1997 Mar-Apr;23(2):68-79 **(Rus)**
[The EEG characteristics and EEG toposelective mapping in patients with chronic suppurative otitis media before and after a sanitizing operation on the ear] Derbeneva ML, et al. **Vestn Otorinolaringol** 1996 Nov-Dec;(6):20-2 (Eng. Abstr.) **(Rus)**
[The spatial-temporal organization of the cortical potentials in freely moving rabbits during active behavior arising under the influence of intrinsic needs] Knipst IN, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):875-85 (Eng. Abstr.) **(Rus)**
[The cerebral organization of verbal processes in adult subjects] Kulakovskiĭ IuV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):378-81 **(Rus)**
[The spectral rearrangements of the EEG and the organization of the cortical connections during spatial and verbal thinking] Nikolaev AR, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):831-48 (Eng. Abstr.) **(Rus)**
[Brain biopotential mapping in emotional and cognitive pathology] Strelets VB. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar-Apr; 47(2):226-42 (Eng. Abstr.) **(Rus)**
[The effect of the properties of the nervous system and the temperament on the spatial organization of the EEG] Sviderskaia NE, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):849-58 (Eng. Abstr.) **(Rus)**
[The spatial organization of the electrical processes of the cerebral cortex in a pathological attraction to alcohol] Sviderskaia NE, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec; 46(6):999-1007 (Eng. Abstr.) **(Rus)**
[Automatic anatomic-physiologic correspondence of deep structures of the central nervous system in stereotaxic functional neurosurgery] Teijeiro Amador J, et al. **Neurologia** 1996 Nov;11(9):320-31 (Eng. Abstr.) **(Spa)**
[Cerebral mapping in patients with dementia of Alzheimer's type] Almárcegui C, et al. **Rev Neurol** 1997 Mar; 25(139):448-51 (Eng. Abstr.) **(Spa)**
[Anatomo-functional localization in cerebral cortex. Application of imaging systems as a guide for resection of cortical lesions] Pulido Rivas P, et al. **Rev Neurol** 1996; 24 Suppl 1:S5-61 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Evaluation of magnetic source imaging for presurgical mapping of brain neoplasms: a two-center retrospective technology assessment study. Kucharczyk J, et al. **Acad Radiol** 1996 Apr;3 Suppl 1:S131-4
Three-dimensional metabolic and hemodynamic imaging of the normal and ischemic rat brain. Ginsberg MD, et al. **Acta Neurochir Suppl (Wien)** 1996;66:44-9
Integration of functional brain mapping in image-guided neurosurgery. Rezai AR, et al. **Acta Neurochir Suppl (Wien)** 1997;68:85-9
Functional neurosurgery aided by use of an electronic brain atlas. Yeo TT, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:93-9
Electrophysiologic target localization in posteroventral pallidotomy. Iacono RP, et al. **Acta Neurochir (Wien)** 1997; 139(5):433-41
Coaxial insulated bipolar electrode for monopolar and bipolar mapping of neural tissue: technical note with emphasis on the principles of intra-operative stimulation. Schekutiev G, et al. **Acta Neurochir (Wien)** 1996;138(4):470-4
Functional MR activation correlated with intraoperative cortical mapping. Yetkin FZ, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1311-5
MRI confirmation of accuracy of freehand placement of mesial temporal lobe depth electrodes in the investigation of intractable epilepsy. Davies KG, et al. **Br J Neurosurg** 1996 Apr;10(2):175-8
Present state of development of neo-electroencephalography. Sorel L, et al. **Clin Electroencephalogr** 1996 Jul;27(3):132-44
Nonfluoroscopic, in vivo navigation and mapping technology. Ben-Haim SA, et al. **Nat Med** 1996 Dec; 2(12):1393-5
Construction of a standard reference for PET studies of methionine accumulation using a computerised brain atlas. Romanowski CA, et al. **Neuroradiology** 1997 Jun; 39(6):389-93
The efficient calculation of neurosurgically relevant volumes from computed tomographic scans using Cavalieri's Direct Estimator. Clatterbuck RE, et al. **Neurosurgery** 1997 Feb; 40(2):339-42; discussion 343
Magnetoencephalographic mapping: basic of a new functional risk profile in the selection of patients with cortical brain lesions. Hund M, et al. **Neurosurgery** 1997 May;40(5):936-42; discussion 942-3
Introduction of the human Horsley-Clarke stereotactic frame. Jensen RL, et al. **Neurosurgery** 1996 Mar; 38(3):563-7; discussion 567
Transcranial high-frequency repetitive electrical stimulation for recording myogenic motor evoked potentials with the patient under general anesthesia. Pechstein U, et al. **Neurosurgery** 1996 Aug;39(2):335-43; discussion 343-4
The interactive use of magnetoencephalography in stereotactic image-guided neurosurgery. Rezai AR, et al. **Neurosurgery** 1996 Jul;39(1):92-102
Intracerebral depth electrode monitoring in partial epilepsy: the morbidity and efficacy of placement using magnetic resonance image-guided stereotactic surgery. Ross DA, et al. **Neurosurgery** 1996 Aug;39(2):327-33; discussion 333-4 (39 ref.)
Tumors of Heschl's gyrus: report of two cases. Silbergeld DL. **Neurosurgery** 1997 Feb;40(2):389-92
In vivo accuracy testing and clinical experience with the ISG Viewing Wand. Sipos EP, et al. **Neurosurgery** 1996 Jul;39(1):194-202; discussion 202-4
An anatomically adapted, injury-free headholder for guinea pigs. Haidarliu S. **Physiol Behav** 1996 Jul;60(1):111-4
[Presurgical diagnosis of epilepsy and surgical epilepsy treatment] Baumgartner C, et al. **Wien Klin Wochenschr** 1997 Mar 28;109(6):180-91 (64 ref.) (Eng. Abstr.) **(Ger)**
[Contribution of spontaneous EEG to understanding cognitive functions] Petsche H. **Wien Klin Wochenschr** 1997 May 9;109(9):327-41 (Eng. Abstr.) **(Ger)**
[Functional brain mapping in motor task and somatosensory stimulation using echo planar MRI] Higuchi T, et al. **Nippon Rinsho** 1997 Jul;55(7):1688-93 (Eng. Abstr.) **(Jpn)**

METHODS

Activation PET scanning in pretreatment evaluation of patients with cerebral tumours or vascular lesions in or close to the sensorimotor cortex. Nyberg G, et al. **Acta Neurochir (Wien)** 1996;138(6):684-94
Dynamic NMR studies of perfusion and oxidative metabolism during focal brain activation. Frahm J, et al. **Adv Exp Med Biol** 1997;413:195-203
Towards brain mapping combining near-infrared spectroscopy and high resolution 3D MRI. Hirth C, et al. **Adv Exp Med Biol** 1997;413:139-47
Uncoupling of absolute CBF to neural activity. Kanno I, et al. **Adv Exp Med Biol** 1997;413:209-14
Assessment of local brain activation. A simultaneous PET and near-infrared spectroscopy study. Villringer K, et al. **Adv Exp Med Biol** 1997;413:149-53
Intersubject analysis of fMRI data using spatial normalization. Zeffiro TA, et al. **Adv Exp Med Biol** 1997;413:235-40
EEG spectral topography in neurology: I. A review of techniques. Satherley BL, et al. **Australas Phys Eng Sci Med** 1996 Sep;19(3):172-82 (67 ref.)
EEG spectral topography in neurology: II. A new system and a theoretical comparison of interpolation techniques. Satherley BL, et al. **Australas Phys Eng Sci Med** 1996 Sep; 19(3):183-93
Comparison of site specific injections into the basal forebrain on water maze and radial arm maze performance in the male rat after immunolesioning with 192 IgG saporin. Dornan WA, et al. **Behav Brain Res** 1997 Jul;86(2):181-9
Cerebral anesthesia for localization of speech: the contribution of W. James Gardner. Harris LJ, et al. **Brain Lang** 1997 Feb 15;56(3):377-96
Functional anatomy of GO/NO-GO discrimination and response selection--a PET study in man. Kawashima R, et al. **Brain Res** 1996 Jul 22;728(1):79-89
Relationship between frequency of spontaneous bursting and tonotopic position in the developing avian auditory system. Lippe WR. **Brain Res** 1995 Dec 12;703(1-2):205-13
Discrimination and study of rhythmical brain activities in the alpha band: a neuromagnetic frequency responsiveness test. Narici L, et al. **Brain Res** 1995 Dec 12;703(1-2):31-44
Kindling induces neuropsin mRNA in the mouse brain. Okabe A, et al. **Brain Res** 1996 Jul 22;728(1):116-20
Concurrent androgenic stimulation of the ventral tegmental area and medial preoptic area: synergistic effects on male-typical reproductive behaviors in house mice. Sipos ML, et al. **Brain Res** 1996 Aug 5;729(1):29-44
Radioligand binding and immunoautoradiographic evidence for a lack of toxicity to dopaminergic nerve terminals in human cocaine overdose victims. Staley JK, et al. **Brain Res** 1997 Feb 7;747(2):219-29
Vanilloid (capsaicin) receptors in the rat: distribution in the brain, regional differences in the spinal cord, axonal transport to the periphery, and depletion by systemic vanilloid treatment. Szallasi A, et al. **Brain Res** 1995 Dec 12;703(1-2):175-83
Demonstration of the corticotectobulbar pathway from the orofacial motor cortex to the parvicellular reticular formation in the rat. Tsumori T, et al. **Brain Res** 1997 Apr 25;755(1):151-5
A non-thalamic pathway contributes to a whole body map in the brain of the budgerigar. Wild JM, et al. **Brain Res** 1997 Apr 25;755(1):137-41
Source localization of middle latency auditory evoked magnetic fields. Yoshiura T, et al. **Brain Res** 1995 Dec 12;703(1-2):139-44
Sensory regulation of immediate-early gene expression in mammalian visual cortex: implications for functional mapping and neural plasticity. Kaczmarek L, et al. **Brain Res Brain Res Rev** 1997 Apr;23(3):237-56 (169 ref.)
The septointerpeduncular projection in the rat: tracing with the carbocyanine dye DiI. Villani L. **Brain Res Bull** 1996; 40(4):279-82
Viewer- and object-centered mental explorations of an imagined environment are not equivalent. Amorim MA, et al. **Brain Res Cogn Brain Res** 1997 Mar;5(3):229-39
Surface representation in the visual system. Komatsu H, et al. **Brain Res Cogn Brain Res** 1996 Dec;5(1-2):97-104
Innervation of the caudate nucleus, thalamus and red nucleus by the remaining sensorimotor cortex in cats with fetal or neonatal unilateral frontal cortex removal. Carlson-Kuhta P, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):234-46
Blockade of afferent impulse activity disrupts on/off sublamination in the ferret lateral geniculate nucleus. Cramer KS, et al. **Brain Res Dev Brain Res** 1997 Feb 20; 98(2):287-90
Orphan nuclear receptor ROR alpha gene: isoform-specific spatiotemporal expression during postnatal development of brain. Sashihara S, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):109-17
Visualizing an olfactory sensory map. Mombaerts P, et al. **Cell** 1996 Nov 15;87(4):675-86
Magnetic resonance and functional magnetic resonance imaging: tools for the study of human epilepsy. Kuzniecky R. **Curr Opin Neurol** 1997 Apr;10(2):88-91 (24 ref.)
A new method for reproducible coil positioning in transcranial magnetic stimulation mapping. Miranda PC, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 105(2):116-23
Evaluation of the functional state of the somato-motor system using SEP and interfering stimuli. Buchner H, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996; 46:351-62
Transcranial magnetic stimulation: a tool for mapping the central nervous system. Hallett M. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:43-51 (41 ref.)
Functional brain mapping using an MRI-linked whole head magnetoencephalography (MEG) system. Nakasato N, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996; 46:119-26
Motor cortex mapping with combined MEG and magnetic stimulation. Ruohonen JO, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:317-22
Brain structure and task-specific increase in expression of the gene encoding syntaxin 1B during learning in the rat: a potential molecular marker for learning-induced synaptic plasticity in neural networks. Davis S, et al. **Eur J Neurosci** 1996 Oct;8(10):2068-74
Development of orientation preference maps in area 18 of kitten visual cortex. Gödecke I, et al. **Eur J Neurosci** 1997 Aug;9(8):1754-62
The basomedial and basolateral amygdaloid nuclei contribute to the induction of long-term potentiation in the dentate gyrus in vivo. Ikegaya Y, et al. **Eur J Neurosci** 1996 Sep; 8(9):1833-9
Learning-induced changes in rat piriform cortex activity mapped using multisite recording with voltage sensitive dye. Litaudon P, et al. **Eur J Neurosci** 1997 Aug; 9(8):1593-602
Short- and long-term plasticity of the hippocampus to nucleus accumbens and prefrontal cortex pathways in the rat, in vivo. Mulder AB, et al. **Eur J Neurosci** 1997 Aug; 9(8):1603-11
Positive correlations between cerebral protein synthesis rates and deep sleep in Macaca mulatta. Nakanishi H, et al. **Eur J Neurosci** 1997 Feb;9(2):271-9
Human brain activity related to orientation discrimination tasks. Orban GA, et al. **Eur J Neurosci** 1997 Feb; 9(2):246-59
The projections of the lateral reticular nucleus to the deep cerebellar nuclei. An experimental analysis in the rat. Parenti R, et al. **Eur J Neurosci** 1996 Oct;8(10):2157-67
Representations of graphomotor trajectories in the human parietal cortex: evidence for controlled processing and automatic performance. Seitz RJ, et al. **Eur J Neurosci** 1997 Feb;9(2):378-89
Pain processing in four regions of human cingulate cortex localized with co-registered PET and MR imaging. Vogt BA, et al. **Eur J Neurosci** 1996 Jul;8(7):1461-73
Topographical characteristics of preposito-collicular

projections in the cat as revealed by Phaseolus vulgaris-leucoagglutinin technique. A possible organisation underlying temporal-to-spatial transformations. Corvisier J, et al. **Exp Brain Res** 1997 May;114(3):461-71

Neural connectivity only accounts for a small part of neural correlation in auditory cortex. Eggermont JJ, et al. **Exp Brain Res** 1996 Aug;110(3):379-91

Functional mapping of color processing by magnetic resonance imaging of responses to selective P- and M-pathway stimulation. Kleinschmidt A, et al. **Exp Brain Res** 1996 Jul;110(2):279-88

Localization of grasp representations in humans by PET: 1. Observation versus execution. Rizzolatti G, et al. **Exp Brain Res** 1996 Sep;111(2):246-52

Voluntary rhythmical movement is reset by stimulating the motor cortex. Wagener DS, et al. **Exp Brain Res** 1996 Sep; 111(1):113-20

Neurons of the claustrum projecting to the motor and somatosensory cortex in the rabbit--assessment with the method of retrograde transport of fluorescent tracers. Kowiański P, et al. **Folia Morphol (Warsz)** 1996;55(4):350-2

Electron microscope structure of projecting neurons in the cat's visual claustrum. Kubasik-Juraniec J, et al. **Folia Morphol (Warsz)** 1996;55(4):364-6

Branching axon from pons and raphe nuclei project to cerebellar paramedian lobule as studied with the double fluorescent retrograde tracing technique. Mierzejewska-Krzyżowska B, et al. **Folia Morphol (Warsz)** 1996;55(4):396-7

Morphology and topography of dormouse (Muscardinus avellanarius L.) and gopher (Spermophilus suslicus Güld.) olivary nucleus. The comparative studies. Skrzypiec Z, et al. **Folia Morphol (Warsz)** 1996;55(4):447-9

Iterative refinement of the minimum norm solution of the bioelectric inverse problem. Srebro R. **IEEE Trans Biomed Eng** 1996 May;43(5):547-52

Characterization of dynamic 3-D PET imaging for functional brain mapping. Barnes D, et al. **IEEE Trans Med Imaging** 1997 Jun;16(3):261-9

Mapping visual field with positron emission tomography by mathematical modeling of the retinotopic organization in the calcarine cortex. Endo S, et al. **IEEE Trans Med Imaging** 1997 Jun;16(3):252-60

Spontaneous and evoked cortical dynamics during deep anaesthesia. Mäkinen S, et al. **Int J Neural Syst** 1996 Sep; 7(4):481-7

How reproducible is the topographical distribution of EEG amplitude? Burgess AP, et al. **Int J Psychophysiol** 1997 Jun;26(1-3):113-9

Functional imaging in treatment planning of brain lesions. Hamilton RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):181-8

Amplitude changes of tibial nerve cortical somatosensory evoked potentials when the ipsilateral or contralateral ear is used as reference. Tinazzi M, et al. **J Clin Neurophysiol** 1997 May;14(3):217-25

Cellular distribution of neurotensin receptors in rat brain: immunohistochemical study using an antipeptide antibody against the cloned high affinity receptor. Boudin H, et al. **J Comp Neurol** 1996 Sep 9;373(1):76-89

Pontine and medullary projections to the nucleus retroambiguus: a wheat germ agglutinin-horseradish peroxidase and autoradiographic tracing study in the cat. Gerrits PO, et al. **J Comp Neurol** 1996 Sep 16;373(2):173-85

Overlapping corticostriatal projections from the supplementary motor area and the primary motor cortex in the macaque monkey: an anterograde double labeling study. Inase M, et al. **J Comp Neurol** 1996 Sep 16; 373(2):283-96

Immunocytochemical localization of serotonin1A receptors in the rat central nervous system. Kia HK, et al. **J Comp Neurol** 1996 Feb 5;365(2):289-305

Immunolocalization of glutathione reductase in the murine brain. Knollema S, et al. **J Comp Neurol** 1996 Sep 16; 373(2):157-72

Histamine-immunoreactive neurons and their innervation of visual regions in the cortex, tectum, and thalamus in the primate Macaca mulatta. Manning KA, et al. **J Comp Neurol** 1996 Sep 16;373(2):271-82

Thalamic input to mesial and superior area 6 in the macaque monkey. Matelli M, et al. **J Comp Neurol** 1996 Aug 12; 372(1):59-87

Differences of the primate flocculus and ventral paraflocculus in the mossy and climbing fiber input organization. Nagao S, et al. **J Comp Neurol** 1997 Jun 16;382(4):480-98

Neurochemical, morphologic, and laminar characterization of cortical projection neurons in the cingulate motor areas of the macaque monkey. Nimchinsky EA, et al. **J Comp Neurol** 1996 Oct 7;374(1):136-60

Total number of neurons in the neostriatal, pallidal, subthalamic, and substantia nigral nuclei of the rat basal ganglia: a stereological study using the cavalieri and optical disector methods. Oorshcot DE. **J Comp Neurol** 1996 Mar 18;366(4):580-99

Overlapping and nonoverlapping cortical projections to cortex of the superior temporal sulcus in the rhesus monkey: double anterograde tracer studies. Seltzer B, et al. **J Comp Neurol** 1996 Jun 24;370(2):173-90

Efferent connections of the internal globus pallidus in the squirrel monkey: II. Topography and synaptic organization of pallidal efferents to the pedunculopontine nucleus. Shink E, et al. **J Comp Neurol** 1997 Jun 9;382(3):348-63

Efferent connections of the internal globus pallidus in the squirrel monkey: I. Topography and synaptic organization of the pallidothalamic projection. Sidibé M, et al. **J Comp Neurol** 1997 Jun 9;382(3):323-47

Functional development of the vibrissae somatosensory system of the rat: (14C) 2-deoxyglucose metabolic mapping study. Wu CC, et al. **J Comp Neurol** 1997 Aug 4; 384(3):323-36

Detection and mapping of abnormal brain structure with a probabilistic atlas of cortical surfaces. Thompson PM, et al. **J Comput Assist Tomogr** 1997 Jul-Aug;21(4):567-81

Correlation of functional magnetic source imaging with intraoperative cortical stimulation in neurosurgical patients. Roberts TP, et al. **J Image Guid Surg** 1995;1(6):339-47

Theory and application of static field inhomogeneity effects in gradient-echo imaging. Reichenbach JR, et al. **J Magn Reson Imaging** 1997 Mar-Apr;7(2):266-79 (23 ref.)

Changes in EEG order in neuroleptically treated normal volunteers during a voluntary movement task. Diekmann V, et al. **J Neural Transm** 1996;103(8-9):1127-39

Olfactory information processing in the brain: encoding chemical and temporal features of odors. Christensen TA, et al. **J Neurobiol** 1996 May;30(1):82-91 (68 ref.)

Functional organization of olfactory system. Shipley MT, et al. **J Neurobiol** 1996 May;30(1):123-76 (390 ref.)

Functional mapping of dorsal and median raphe 5-hydroxytryptamine pathways in forebrain of the rat using microdialysis. McQuade R, et al. **J Neurochem** 1997 Aug; 69(2):791-6

Transcranial magnetic stimulation as a prognostic tool in stroke. D'Olhaberriague L, et al. **J Neurol Sci** 1997 Mar 20;147(1):73-80

Transcranial magnetic stimulation of the human frontal eye field. Thickbroom GW, et al. **J Neurol Sci** 1996 Dec; 144(1-2):114-8

Spatiotemporal analysis of prepyriform, visual, auditory, and somesthetic surface EEGs in trained rabbits. Barrie JM, et al. **J Neurophysiol** 1996 Jul;76(1):520-39

Binary mapping of cortical spike trains in short-term memory. Bodner M, et al. **J Neurophysiol** 1997 Apr; 77(4):2219-22

Spatiotemporal receptive field organization in the lateral geniculate nucleus of cats and kittens. Cai D, et al. **J Neurophysiol** 1997 Aug;78(2):1045-61

Functional parasagittal compartments in the rat cerebellar cortex: an in vivo optical imaging study using neutral red. Chen G, et al. **J Neurophysiol** 1996 Dec;76(6):4169-74

Frontal and parietal networks for conditional motor learning: a positron emission tomography study. Deiber MP, et al. **J Neurophysiol** 1997 Aug;78(2):977-91

Multiple nonprimary motor areas in the human cortex. Fink GR, et al. **J Neurophysiol** 1997 Apr;77(4):2164-74

Anterior and posterior oral cavity responsive neurons are differentially distributed among parabrachial subnuclei in rat. Halsell CB, et al. **J Neurophysiol** 1997 Aug;78(2):920-38

Task-dependent representations in rat hippocampal place neurons. Kobayashi T, et al. **J Neurophysiol** 1997 Aug; 78(2):597-613

Activation on the medial wall during remembered sequences of reaching movements in monkeys. Picard N, et al. **J Neurophysiol** 1997 Apr;77(4):2197-201

Functionally defined smooth and saccadic eye movement subregions in the frontal eye field of Cebus monkeys. Tian JR, et al. **J Neurophysiol** 1996 Oct;76(4):2740-53

Corticocortical input to the smooth and saccadic eye movement subregions of the frontal eye field in Cebus monkeys. Tian JR, et al. **J Neurophysiol** 1996 Oct; 76(4):2754-71

Transcranial magnetic stimulation during positron emission tomography: a new method for studying connectivity of the human cerebral cortex. Paus T, et al. **J Neurosci** 1997 May 1;17(9):3178-84

Rapid optical imaging of whisker responses in the rat barrel cortex. Dowling JL, et al. **J Neurosci Methods** 1996 Jun; 66(2):113-22

A reliable system of ventricular coordinates for the cartography and stereotaxy of the amygdala (and anterior hippocampus) in macaques. Percheron G. **J Neurosci Methods** 1997 Jul 18;75(1):5-14

Computer assisted three-dimensional reconstruction of brain regions from serial section digitized images. Application to the organization of striato-nigral relationships in the rat. Roesch S, et al. **J Neurosci Methods** 1996 Nov; 69(2):197-204

The effect of reference-electrode choice on the spatial resolution of topographical potential maps in the discrimination of deep cerebral sources. Sidman RD, et al. **J Neurosci Methods** 1996 Oct;68(2):175-84

Intracranial electrode monitoring for seizure localization: indications, methods and the prevention of complications. Dewar S, et al. **J Neurosci Nurs** 1996 Oct;28(5):280-4, 289-92 (30 ref.)

Localisation of sensory motor cortex during surgery by changes of cortical surface temperature after median nerve stimulation [letter] Ueda M, et al. **Lancet** 1997 Aug 23; 350(9077):561

Mapping drug-induced changes in cerebral R2* by Multiple Gradient Recalled Echo functional MRI. Chen Q, et al. **Magn Reson Imaging** 1996;14(5):469-76

Functional MR imaging of visual and motor cortex stimulation at high temporal resolution using a FLASH technique on a standard 1.5 Tesla scanner. Wiener E, et al. **Magn Reson Imaging** 1996;14(5):477-83

Stereoscopic synthesized brain-surface imaging with MR angiography for localization of a peripheral mycotic aneurysm: case report. Kato Y, et al. **Minim Invasive Neurosurg** 1996 Dec;39(4):113-5

The cerebral response to electrical stimuli in the oesophagus is altered by increasing stimulus frequencies. Hollerbach S, et al. **Neurogastroenterol Motil** 1997 Jun;9(2):129-39

A direct comparison of PET activation and electrocortical stimulation mapping for language localization. Bookheimer SY, et al. **Neurology** 1997 Apr;48(4):1056-65

Scalp topographic mapping of middle-latency somatosensory evoked potentials in normal aging and dementia. Ferri R, et al. **Neurophysiol Clin** 1996;26(5):311-9

Imaging human intra-cerebral connectivity by PET during TMS. Fox P, et al. **Neuroreport** 1997 Aug 18;8(12):2787-91

Face and shape repetition effects in humans: a spatio-temporal ERP study. George N, et al. **Neuroreport** 1997 Apr 14;8(6):1417-23

Vocal identification of speaker and emotion activates different brain regions. Imaizumi S, et al. **Neuroreport** 1997 Aug 18;8(12):2809-12

Corticocortical connections between area 21a and primary visual cortex in the cat. Morley JW, et al. **Neuroreport** 1997 Mar 24;8(5):1263-6

Size and shape of receptive fields in the medial superior temporal area (MST) of the macaque. Raiguel S, et al. **Neuroreport** 1997 Aug 18;8(12):2803-8

Sequential activity in human motor areas during a delayed cued finger movement task studied by time-resolved fMRI. Richter W, et al. **Neuroreport** 1997 Mar 24;8(5):1257-61

Cerebral activation covaries with movement rate. Schlaug G, et al. **Neuroreport** 1996 Mar 22;7(4):879-83

Enhanced dimensional complexity of the EEG during memory for personal pain in chronic pain patients. Lutzenberger W, et al. **Neurosci Lett** 1997 May 2; 226(3):167-70

Magnetic source imaging as a tool for presurgical functional brain mapping. Roberts TP, et al. **Neurosurg Clin N Am** 1997 Jul;8(3):421-38 (68 ref.)

Functional anatomic relationship between brain-stem tumors and cranial motor nuclei. Morota N, et al. **Neurosurgery** 1996 Oct;39(4):787-93; discussion 793-4

[123I/18F] N-(2-aminoethyl)-5-halogeno-2-pyridinecarbox-amides, site specific tracers for MAO-B mapping with SPECT and PET. Beer HF, et al. **Nucl Med Biol** 1995 Nov; 22(8):999-1004

Prostaglandin E receptor EP3 subtype is involved in thermal hyperalgesia through its actions in the preoptic hypothalamus and the diagonal band of Broca in rats. Hosoi M, et al. **Pain** 1997 Jul;71(3):303-11

Topography of hypoxic injury proved by argyrophilia in postnatal rat brain. Muramatsu K, et al. **Pediatr Neurol** 1997 Feb;16(2):105-13

Persistent increases in basal cerebral metabolic activity induced by morphine sensitization. Kraus MA, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):89-100

Visualization and mapping of neurosurgical functional brain data onto a 3-D MR-based model of the brain surface. Modayur BR, et al. **Proc AMIA Annu Fall Symp** 1996; :304-8

New imaging methods provide a better view into the brain [news] Barinaga M. **Science** 1997 Jun 27;276(5321):1974-6

Motor cortical mapping of proximal upper extremity muscles following spinal cord injury. Brouwer B, et al. **Spinal Cord** 1997 Apr;35(4):205-12

A comparison of spatial prediction techniques for an exploratory analysis of human cortical motor representations. McShane LM, et al. **Stat Med** 1997 Jun 30;16(12):1337-55

Intraoperative brain mapping in a community setting--technical considerations. Sartorius CJ, et al. **Surg Neurol** 1997 Apr;47(4):380-8

Topographic relationship of neurotensin-containing axon terminals with cardiac and noncardiac principal ganglion cells in the stellate ganglia of the cat. Carbó R, et al. **Synapse** 1997 Mar;25(3):277-84

Stimulating issues in cortical map development. Goodhill GJ. **Trends Neurosci** 1997 Sep;20(9):375-6 (27 ref.)

[Functional mapping of the motor and primary sensorial cortex using magnetic resonance techniques. II. Image analysis techniques] Cettolo V, et al. **Radiol Med (Torino)** 1996 Nov;92(5):554-61 (Eng. Abstr.) **(Ita)**

[Functional mapping of the motor and primary sensorial cortex using magnetic resonance techniques. I. Preliminary data] Francescato MP, et al. **Radiol Med (Torino)** 1996 Nov; 92(5):548-53 (Eng. Abstr.) **(Ita)**

[Somatotopical mapping of the human somatosensory cortex with echo-planar MRI] Onodera Y, et al. **Nippon Rinsho** 1997 Jul;55(7):1694-8 (Eng. Abstr.) **(Jpn)**

[Theory and clinical application of functional MRI: 3D-functional brain mapping] Tanaka C, et al. **Nippon Rinsho** 1997 Jul;55(7):1660-5 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical application of functional mapping: the present state of the art and its future prospects: (series 9). Functional brain mapping using dipole tracing] Hayashi N, et al. **No Shinkei Geka** 1996 Nov;24(11):977-80 (14 ref.) **(Jpn)**

[Clinical application of functional mapping: the present state of the art and its future prospects: (series 8) functional brain

BRAIN MAPPING

mapping using PET] Itoh M, et al. **No Shinkei Geka** 1996 Sep;24(9):779–83 (13 ref.) **(Jpn)**

[Localization of brain electric sources in patients with focal epilepsy] Silva C, et al. **Acta Med Port** 1996 Jul–Sep; 9(7–9):219–27 (Eng. Abstr.) **(Por)**

[The electroencephalogram in children with Landau–Kleffner syndrome] Blagosklonova NK, et al. **Fiziol Cheloveka** 1996 Sep–Oct;22(5):56–61 **(Rus)**

[Heterogeneity and age–related dynamics of the alpha–rhythm of the electroencephalogram] Farber DA, et al. **Fiziol Cheloveka** 1996 Sep–Oct;22(5):5–12 **(Rus)**

[EEG as a non–stationary signal: an approach to analysis based on nonparametric statistics] Shishkin SL, et al. **Fiziol Cheloveka** 1997 Jul–Aug;23(4):124–6 **(Rus)**

[Functional mapping of the motor cortex in the white mouse by microstimulation] Pronichev IV, et al. **Fiziol Zh Im I M Sechenova** 1996 Jul;82(7):28–35 (Eng. Abstr.) **(Rus)**

[The formation of motor representations of the facial musculature and of the extremities in the early postnatal ontogeny of the white mouse] Pronichev IV, et al. **Zh Evol Biokhim Fiziol** 1996 Jul–Aug;32(4):409–15 (Eng. Abstr.) **(Rus)**

[Topographic mapping of the process of synchronizing moments of sharp changes in the human multichannel EEG] Kaplan AIa, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan–Feb; 47(1):32–7 (Eng. Abstr.) **(Rus)**

BRAIN NEOPLASMS

Annotated bibliography. Altman N, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul;18(6):1196–9

Desmoplastic cerebral astrocytoma in intraventricular location: simplifying histogenesis by broadening the spectrum of desmoplastic neuroepithelial tumors of infancy? [letter; comment] Vajtai I. **AJR Am J Roentgenol** 1997 May;168(5):1385. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1459–61.

Lymphomatoid granulomatosis: case report and review of the literature. Ng P, et al. **Australas Radiol** 1997 Feb; 41(1):57–62 (36 ref.)

Paediatric brain tumours. Plowman PN, et al. **Br Med Bull** 1996 Oct;52(4):802–17 (49 ref.)

Gangliogliomas in adults. Hakim R, et al. **Cancer** 1997 Jan 1;79(1):127–31

Central neurocytomas. Schild SE, et al. **Cancer** 1997 Feb 15;79(4):790–5

Self–reported comprehensive health status of adult brain tumor patients using the Health Utilities Index. Whitton AC, et al. **Cancer** 1997 Jul 15;80(2):258–65

Malignant brain tumors in the elderly. Fernandez PM, et al. **Clin Geriatr Med** 1997 May;13(2):327–38 (56 ref.)

Neoplasms. **Curr Opin Neurol** 1996 Dec;9(6):B127–40

Brain and nervous system. **Curr Opin Oncol** 1996 May; 8(3):B87–93

Brain and nervous system. **Curr Opin Oncol** 1997 Jul; 9(4):B65–70

The 'PRESTON Profile'—the first disease–specific tool for assessing quality of life in patients with malignant glioma. Lyons GJ. **Disabil Rehabil** 1996 Sep;18(9):460–8

Establishment and characterization of a new human glioblastoma cell line (MGM–1) with highly motile phenotype. Moriyama T, et al. **Hum Cell** 1997 Mar; 10(1):105–10

Heterogeneic modulation of malignant behavior in human glioma cells in defined and serum–containing media. Haugland HK, et al. **In Vitro Cell Dev Biol Anim** 1996 Mar;32(3):159–66

Survival, prognostic factors, and therapeutic efficacy in low–grade glioma: a retrospective study in 379 patients. Lote K, et al. **J Clin Oncol** 1997 Sep;15(9):3129–40

7th Canadian Neuro–Oncology Meeting. Montreal, Quebec, Canada, May 29–31, 1996. Abstracts. **J Neurooncol** 1997 Feb;31(3):279–301

11th International Conference on Brain Tumor Research and Therapy. Napa, California, October 31–November 3, 1995. Abstracts. **J Neurooncol** 1996 Apr;28(1):31–113

Special issue: Gliomas of childhood: current perspectives. **J Neurooncol** 1996 May–Jun;28(2–3):117–268

Computer–assisted microscope characterization of BCNU–induced modifications in the collective behavior of 12 human brain cancer cell lines. Camby I, et al. **J Neurooncol** 1996 Apr;28(1):1–11

Primary intracerebral small–cell osteosarcoma in an adolescent girl: report of a case. Sipos EP, et al. **J Neurooncol** 1997 Apr;32(2):169–74

Tumor in normal brain [letter; comment] Alvord EC Jr, et al. **J Neurosurg** 1997 Sep;87(3):484–5. Comment on: J Neurosurg 1997 Mar;86(3):525–31.

High–grade astrocytomas: resource use, clinical outcomes, and cost of care. Silverstein MD, et al. **Mayo Clin Proc** 1996 Oct;71(10):936–44

Brain tumor and pregnancy. Isla A, et al. **Obstet Gynecol** 1997 Jan;89(1):19–23

Public perceptions of brain tumours in Scotland: the need for access to appropriate information. Whittle IR, et al. **Scott Med J** 1996 Jun;41(3):87–9

Cavernoma of the cavernous sinus: case report. Bristot R, et al. **Surg Neurol** 1997 Aug;48(2):160–3

A review of the treatment and survival rates of 138 patients with glioblastoma multiforme. Jubelirer SJ. **W V Med J** 1996 Jul–Aug;92(4):186–90

Treatment of brain tumors: making progress? [editorial; comment] Badie B, et al. **Wis Med J** 1996 Dec;95(12):851 . Comment on: Wis Med J 1996 Dec;95(12):852–9.

[Primary brain tumors] Cohen J, et al. **Harefuah** 1996 Nov 15;131(10):387–90, 456 (Eng. Abstr.) **(Heb)**

[Brain tumors and colony stimulating factors] Kurisu K. **No Shinkei Geka** 1996 Aug;24(8):701–8 (40 ref.) **(Jpn)**

[Craniopharyngioma in childhood. Significance of the extent of surgical resection and adjuvant megavoltage irradiation for event: free survival] Roszkowski M, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):797–810 (Eng. Abstr.) **(Pol)**

[Primary germ cell tumors of the central nervous system] Losa F, et al. **Neurologia** 1997 Jun–Jul;12(6):249–54 (30 ref.) (Eng. Abstr.) **(Spa)**

[Familial colonic polyposis associated with malignant tumors of the central nervous system: Turcot's syndrome (letter)] Alonso V, et al. **Rev Clin Esp** 1996 Nov;196(11):798–9 **(Spa)**

BLOOD

Pregnancy associated highly vascularized tumours negatively correlate with the levels of anti–angiogenic 17 alpha–hydroxy–progesterone. Rao BR. **Anticancer Res** 1997 Mar–Apr;17(2A):1019–21

Serum beta 2–microglobulin as a tumour marker in space occupying lesions of central nervous system. Kumar S, et al. **Indian J Pathol Microbiol** 1995 Jan;38(1):43–7

Elevated 3,5–diiodothyronine concentrations in the sera of patients with nonthyroidal illnesses and brain tumors. Pinna G, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1535–42

A simple method for the propagation and purification of gamma delta T cells from the peripheral blood of glioblastoma patients using solid–phase anti–CD3 antibody and soluble IL–2. Yamaguchi T, et al. **J Immunol Methods** 1997 Jun 23;205(1):19–28

Coagulation alterations in patients undergoing elective craniotomy. Heesen M, et al. **Surg Neurol** 1997 Jan; 47(1):35–8

BLOOD SUPPLY

Sequential injections of amobarbital sodium and lidocaine for provocative neurologic testing in the external carotid circulation. Deveikis JP. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1143–7

Superselective angio–CT of brain tumors. Tomura N, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1073–80

In vivo (31)P magnetic resonance spectroscopy and morphometric analysis of the perfused vascular architecture of human glioma xenografts in nude mice. van der Sanden BP, et al. **Br J Cancer** 1997;75(10):1432–8

Gene therapy of malignant glioma via inhibition of tumor angiogenesis. Plate KH. **Cancer Metastasis Rev** 1996 Jun; 15(2):237–40 (20 ref.)

Inhibition of angiogenesis in human glioblastomas by chromosome 10 induction of thrombospondin–1. Hsu SC, et al. **Cancer Res** 1996 Dec 15;56(24):5684–91

Regulation of angiogenesis in malignant gliomas. Guerin C, et al. **EXS** 1997;79:47–64 (127 ref.)

Angiogenesis in human gliomas: prognostic and therapeutic implications. Johnson JP, et al. **EXS** 1997;79:29–46 (116 ref.)

Cerebral bloodflow in and around spontaneous malignant gliomas. Toglia A, et al. **Int J Hyperthermia** 1996 Jul–Aug; 12(4):461–76

Proliferative potentials of glioma cells and vascular components determined with monoclonal antibody MIB–1. Di X, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):153–7

Probing tumor microvascularity by measurement, analysis and display of contrast agent uptake kinetics. Parker GJ, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):564–74

Angiogenesis in brain tumors; pathobiological and clinical aspects. Wesseling P, et al. **J Neurooncol** 1997 May; 32(3):253–65 (111 ref.)

Expression of integrin alpha v beta 3 in small blood vessels of glioblastoma tumors. Gladson CL. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1143–9

Correlation of endothelin–1 and transforming growth factor beta 1 with malignancy and vascularity in human gliomas. Stiles JD, et al. **J Neuropathol Exp Neurol** 1997 Apr; 56(4):435–9

Morphological change in tumor endothelial cells induced by natural–type human tumor necrosis factor. Nakaichi M, et al. **J Vet Med Sci** 1997 Jul;59(7):605–8

Dexamethasone inhibits glioma–induced formation of capillary like structures in vitro and angiogenesis in vivo. Wolff JE, et al. **Klin Padiatr** 1997 Jul–Aug;209(4):275–7

Usefulness of two–dimensional time–of–flight MR angiography combined with surface anatomy scanning for convexity lesions. Pant B, et al. **Neurosurg Rev** 1997; 20(2):108–13

Tumor blood flow and the cytotoxic effects of estramustine and its constituents in a rat glioma model. Johansson M, et al. **Neurosurgery** 1997 Jul;41(1):237–43; discussion 243–4

Relationships among lactate concentration, blood flow and histopathologic profiles in rat C6 glioma. Terpstra M, et al. **NMR Biomed** 1996 Aug;9(5):185–94

Ultrastructural and morphometric investigation of human brain capillaries in normal and peritumoral tissues. Bertossi M, et al. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):41–9

[Perfusion studies with paramagnetic contrast media and rapid pulse sequences in cerebrovascular diseases and brain tumors] Schuierer G, et al. **Radiologe** 1996 Feb;36(2):107–14 (Eng. Abstr.) **(Ger)**

[Inhibition of angiogenesis and growth of malignant gliomas in the athymic nude rat model: immunotherapy against "basic fibroblast growth factor"] Nemati MN, et al. **Zentralbl Neurochir** 1996;57(1):12–9 (Eng. Abstr.) **(Ger)**

[High uptake of N–isopropyl–p–[123I]–iodoamphetamine (123I–IMP) demonstrated by dynamic SPECT in some cases of glioma] Sugou N, et al. **Kaku Igaku** 1996 Jul; 33(7):695–704 (Eng. Abstr.) **(Jpn)**

[Laser–doppler flowmetry of the cortex in brain tumors] Kravets LIa, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul–Sep; (3):39–41 **(Rus)**

CEREBROSPINAL FLUID

Metastasizing extraneural tumors along the CSF pathway. Lee JY, et al. **Clin Neuropathol** 1997 May–Jun;16(3):117–21 (15 ref.)

Levels of glutamic acid decarboxylase (GAD), gamma amino butyric acid transaminase (GABA–T), glutamic acid dehydrogenase (GLDH) and proteins in cerebrospinal fluid of certain neurological disorders. Far SR, et al. **Indian J Med Sci** 1996 Apr;50(4):99–102

[Cerebrospinal fluid in the diagnosis of cerebro–meningeal metastasis from malignant melanoma arising from giant congenital melanocytic nevus: case report] Rolim JA, et al. **Arq Neuropsiquiatr** 1996 Sep;54(3):479–83 (Eng. Abstr.) **(Por)**

CHEMICALLY INDUCED

Loss of p53 is an early event in induction of brain tumors in mice by transplacental carcinogen exposure. Oda H, et al. **Cancer Res** 1997 Feb 15;57(4):646–50

Aspartame consumption in relation to childhood brain tumor risk: results from a case–control study. Gurney JG, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1072–4

"Increasing brain tumor rates: is there a link to aspartame?" [letter; comment] Flamm WG. **J Neuropathol Exp Neurol** 1997 Jan;56(1):105–6. Comment on: J Neuropathol Exp Neurol 1996 Nov;55(11):1115–23.

"Increasing brain tumor rates: is there a link to aspartame?" [letter; comment] Koestner A. **J Neuropathol Exp Neurol** 1997 Jan;56(1):107–9. Comment on: J Neuropathol Exp Neurol 1996 Nov;55(11):1115–23.

Increasing brain tumor rates: is there a link to aspartame? [see comments] Olney JW, et al. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1115–23. Comment in: J Neuropathol Exp Neurol 1996 Dec;55(12):1280. Comment in: J Neuropathol Exp Neurol 1997 Jan;56(1):105–6. Comment in: J Neuropathol Exp Neurol 1997 Jan;56(1):107–9.

Safety of aspartame [letter; comment] Butchko HH. **Lancet** 1997 Apr 12;349(9058):1105. Comment on: Lancet 1997 Feb 1;349(9048):362.

Aspartame and brain cancer [letter] [see comments] Roberts HJ. **Lancet** 1997 Feb 1;349(9048):362. Comment in: Lancet 1997 Apr 12;349(9058):1105.

Relapse of intracranial germinoma 23 years postirradiation in a patient given growth hormone replacement. Kiltie AE, et al. **Med Pediatr Oncol** 1997 Jul;29(1):41–4

CHEMISTRY

Melanotic astrocytoma. Vajtai I, et al. **Acta Neuropathol (Berl)** 1996;91(5):549–53

Influence of debris and aggregates on image cytometry DNA measurement of archival tumors. Boudry C, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):153–7

Targeting microtubule–associated proteins in glioblastoma: a new strategy for selective therapy. Piepmeier JM, et al. **Ann Surg Oncol** 1996 Nov;3(6):543–9

Fibrin deposition in primary and metastatic human brain tumours. Bárdos H, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):536–48

Increased levels of cholesterol esters in glioma tissue and surrounding areas of human brain. Nygren C, et al. **Br J Neurosurg** 1997 Jun;11(3):216–20

Association of pleomorphic xanthoastrocytoma with cortical dysplasia and neuronal tumors. A report of three cases. Lach B, et al. **Cancer** 1996 Dec 15;78(12):2551–63

SV40 early region and large T antigen in human brain tumors, peripheral blood cells, and sperm fluids from healthy individuals [see comments] Martini F, et al. **Cancer Res** 1996 Oct 15;56(20):4820–5. Comment in: Cancer Res 1997 Aug 1;57(15):3319–20.

Evidence that mobile lipids detected in rat brain glioma by 1H nuclear magnetic resonance correspond to lipid droplets. Rémy C, et al. **Cancer Res** 1997 Feb 1; 57(3):407–14

Ion microscopy imaging of 10B from p–boronophenylalanine in a brain tumor model for boron neutron capture therapy. Smith DR, et al. **Cancer Res** 1996 Oct 1;56(19):4302–6

Proton and phosphorus nuclear magnetic resonance spectroscopy of human brain tumor extracts with automatic data classification: a preliminary study. Nadal L, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Jul;43(5):659–73

Quinolinate immunoreactivity in experimental rat brain tumors is present in macrophages but not in astrocytes. Moffett JR, et al. **Exp Neurol** 1997 Apr;144(2):287–301

Cerebral gangliogliomas. Morphological and immunohistochemical study. Kroh H, et al. **Folia Neuropathol** 1996;34(2):107–13

Glycolipids and myelin proteins in human oligodendrogliomas. Sung CC, et al. **Glycoconj J** 1996 Jun; 13(3):433–43

Metastatic adenocarcinoma to the brain: an immunohistochemical approach. Perry A, et al. **Hum Pathol** 1997 Aug;28(8):938–43

Distribution of tenascin in human malignant gliomas is not related to cell proliferation [letter] Castellani P, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):290–1

Analysis of proliferation markers and p53 expression in gliomas of astrocytic origin: relationships and prognostic value [see comments] Cunningham JM, et al. **J Neurosurg** 1997 Jan;86(1):121–30. Comment in: J Neurosurg 1997 Jul;87(1):133–4.

The fatty acid composition of human gliomas differs from that found in nonmalignant brain tissue. Martin DD, et al. **Lipids** 1996 Dec;31(12):1283–8

1H MR spectroscopy detection of lipids and lactate in metastatic brain tumors. Sijens PE, et al. **NMR Biomed** 1996 Apr;9(2):65–71

Expression of tissue factor in glioma. Hamada K, et al. **Noshuyo Byori** 1996 Nov;13(2):115–8

[Study by NMR of the modifications of brain lipid composition related to the tumor processes] Debouzy JC, et al. **Ann Pharm Fr** 1997;55(1):35–41 (Eng. Abstr.) **(Fre)**

[Analysis of proliferating cell nuclear antigen (PCNA) expression in brain tumors] Honjho Y, et al. **No Shinkei Geka** 1996 Feb;24(2):143–8 (Eng. Abstr.) **(Jpn)**

[Growth factors and neurotrophic factors with relevance to gliomas] Nagashima T. **No To Shinkei** 1997 Mar; 49(3):214–26 (132 ref.) **(Jpn)**

[Uridine diphosphate sugar in meningiomas of the brain] Popova GM, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul–Sep;(3):30–1 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Oligodendrogliomas. Part I: Patterns of growth, histological diagnosis, clinical and imaging correlations: a study of 153 cases. Daumas-Duport C, et al. **J Neurooncol** 1997 Aug; 34(1):37–59

Oligodendrogliomas. Part II: A new grading system based on morphological and imaging criteria. Daumas-Duport C, et al. **J Neurooncol** 1997 Aug;34(1):61–78

Classification of astrocytomas and malignant astrocytomas by principal components analysis and a neural net. McKeown MJ, et al. **J Neuropathol Exp Neurol** 1996 Dec; 55(12):1238–45

[The revised WHO classification of brain tumors. Radiological aspects of 4 new tumor entities] Zimmer C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):522–7 (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Micro-invasive squamous cell carcinoma arising in a pre-existing intraventricular epidermoid cyst. Case report and literature review. Bayindir C, et al. **Acta Neurochir (Wien)** 1996;138(8):1008–12

Radiation induced intracranial leiomyosarcoma: its histopathological features. Niwa J, et al. **Acta Neurochir (Wien)** 1996;138(12):1470–1

Ullrich-Turner syndrome and neurofibromatosis-1. Schorry EK, et al. **Am J Med Genet** 1996 Dec 30;66(4):423–5

Meningiomas intrinsic to the geniculate ganglion. Luetje CM, et al. **Am J Otol** 1997 May;18(3):393–7

Acute obstructive hydrocephalus and sudden death in children. Shemie S, et al. **Ann Emerg Med** 1997 Apr; 29(4):524–8 (15 ref.)

Neurocysticercosis among patients with cerebral gliomas. Del Brutto OH, et al. **Arch Neurol** 1997 Sep;54(9):1125–8

Coexistent orbital and cerebellar venous anomalies in linear sebaceous naevus syndrome. Seawright AA, et al. **Aust N Z J Ophthalmol** 1996 Nov;24(4):373–6

Glossopharyngeal neuralgia associated with vascular compression and choroid plexus papilloma. Greene KA, et al. **Br J Neurosurg** 1995;9(6):809–14

Intracranial angiolipoma: report of two cases. Prabu SS, et al. **Br J Neurosurg** 1995;9(6):793–7

Ocular melanocytosis associated with intracranial melanoma [letter] Kiratli H, et al. **Br J Ophthalmol** 1996 Nov; 80(11):1025

Intracranial plasmacytoma presenting with optic nerve compression [letter] Maini R, et al. **Br J Ophthalmol** 1997 May;81(5):417–8

Diencephalic syndrome and disseminated juvenile pilocytic astrocytomas of the hypothalamic-optic chiasm region. Perilongo G, et al. **Cancer** 1997 Jul 1;80(1):142–6

Klinefelter syndrome and neoplasia presentation of three new cases [letter] Wysocka B, et al. **Cancer Genet Cytogenet** 1996 Nov;92(1):85–6

SUNCT syndrome associated with cavernous angioma of the brain stem. De Benedittis G. **Cephalalgia** 1996 Nov; 16(7):503–6

CT, MRI, and PET in a case of intractable epilepsy. Metsähonkala L, et al. **Childs Nerv Syst** 1996 Jul; 12(7):421–4

24-year preoperative evolution of a temporal astrocytoma. Pascual-Castroviejo I, et al. **Childs Nerv Syst** 1996 Jul; 12(7):417–20

Use of a ventriculosubgaleal shunt in the management of hydrocephalus in children with posterior fossa tumors. Van Calenbergh F, et al. **Childs Nerv Syst** 1996 Jan;12(1):34–7

Cryptococcal meningitis and primary CNS lymphoma in a patient with acquired immunodeficiency syndrome: a case report. Wang JH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jan;59(1):50–4

Velopharyngeal incompetence as the presenting symptom of malignant brainstem tumor. Lefaivre JF, et al. **Cleft Palate Craniofac J** 1997 Mar;34(2):154–8

Subependymal giant cell astrocytoma associated with tuberous sclerosis: diagnostic and surgical characteristics of five cases with unusual features. Turgut M, et al. **Clin Neurol Neurosurg** 1996 Aug;98(3):217–21

Recurrent E. coli meningitis associated with an intracranial dermoid cyst. Vieira T, et al. **Clin Pediatr (Phila)** 1996 Jan; 35(1):32–3

Epilepsy in patients with central nervous system tumors. Villemure JG, et al. **Curr Opin Neurol** 1996 Dec;9(6):424–8 (31 ref.)

Panic attacks caused by temporal tumors: an exemplary new case and a review. Kellner M, et al. **Depress Anxiety** 1996–97;4(5):243–5 (23 ref.)

Successful treatment of syndrome of inappropriate antidiuretic secretion (SIADH) in 2 patients with CNS involvement of chronic lymphocytic leukaemia [letter] Hagberg H, et al. **Eur J Haematol** 1997 Mar;58(3):207–8

Cerebral haemorrhage in long-term survivors of childhood acute lymphoblastic leukaemia. Humpl T, et al. **Eur J Pediatr** 1997 May;156(5):367–70

Urinary retention and space-occupying lesions of the frontal cortex. Lang EW, et al. **Eur Neurol** 1996;36(1):43–7

Chordoid meningioma associated with chronic subdural hematoma. Kumar S, et al. **Indian Pediatr** 1996 Sep; 33(9):783–5

Pediatric brain stem gliomas with the predominant symptom of sleep apnea. Ito K, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):53–64

Cavernous angioma with olivary hypertrophy and contralateral cerebellar diaschisis. Komaba Y, et al. **Intern Med** 1997 Jul;36(7):504–7

Primary brain tumors presenting as intra cerebral haemorrhage. Makwane UK, et al. **J Assoc Physicians India** 1996 Oct;44(10):729–33

Brainstem tumor with infantile spasms. Aktan G, et al. **J Child Neurol** 1997 Feb;12(2):152–4

Idiopathic hypothalamic diabetes insipidus, pituitary stalk thickening, and the occult intracranial germinoma in children and adolescents. Mootha SL, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1362–7

Speech and the dominant superior frontal gyrus: correlation of ictal symptoms, EEG, and results of surgical resection. Chee MW, et al. **J Clin Neurophysiol** 1997 May;14(3):226–9

Superficial siderosis of the central nervous system: an underestimated cause of hearing loss. Castelli ML, et al. **J Laryngol Otol** 1997 Jan;111(1):60–2

Dural metastasis at medulla oblongata: a rare cause of vocal fold paralysis. Pak MW, et al. **J Laryngol Otol** 1996 Sep; 110(9):884–6

"Echoing approval": a new speech disorder. Ghika J, et al. **J Neurol** 1996 Sep;243(9):633–7

Urinary retention in bilateral pontine tumour: evidence for a pontine micturition centre in humans [letter] Manente G, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov; 61(5):528–9

Three cases of symptom change in Tourette's syndrome and obsessive-compulsive disorder associated with paediatric cerebral malignancies. Peterson BS, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):497–505 (48 ref.)

Status epilepticus due to a ruptured dermoid cyst. van der Graaff M, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar; 62(3):222

Low-grade gliomas of chronic epilepsy: a distinct clinical and pathological entity. Bartolomei JC, et al. **J Neurooncol** 1997 Aug;34(1):79–84

Special issues in the management of gliomas in children with neurofibromatosis 1. Pollack IF, et al. **J Neurooncol** 1996 May-Jun;28(2-3):257–68 (64 ref.)

Superficial siderosis and episodic fourth nerve paresis. Report of a case with clinical and magnetic resonance imaging findings. Hashimoto M, et al. **J Neuroophthalmol** 1996 Dec; 16(4):277–80

Pseudotumor associated with CNS lymphoma. Hudson HL, et al. **J Neuroophthalmol** 1996 Sep;16(3):208–11

Bilateral ptosis due to mesencephalic lesions with relative preservation of ocular motility. Martin TJ, et al. **J Neuroophthalmol** 1996 Dec;16(4):258–63

The importance of pial blood supply to the development of peritumoral brain edema in meningiomas. Bitzer M, et al. **J Neurosurg** 1997 Sep;87(3):368–73

Association of tuberous sclerosis of temporal lobes with autism and atypical autism [see comments] Bolton PF, et al. **Lancet** 1997 Feb 8;349(9049):392–5. Comment in: Lancet 1997 Feb 8;349(9049):373–4.

Developmental abnormalities in autism [comment] Lainhart JE. **Lancet** 1997 Feb 8;349(9049):373–4. Comment on: Lancet 1997 Feb 8;349(9049):392–5.

Cervical dystonia associated with tumors of the posterior fossa. Krauss JK, et al. **Mov Disord** 1997 May;12(3):443–7

Adult respiratory distress syndrome in patients with malignant astrocytoma--three case reports. Kumabe T, et al. **Neurol Med Chir (Tokyo)** 1997 Jul;37(7):560–5

Spontaneous intraventricular hemorrhage caused by lateral ventricular meningioma--case report. Murai Y, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):586–9

Dural cavernous angioma causing acute subdural hemorrhage--case report. Suzuki K, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):580–2

Low grade astrocytoma in the medial part of the frontal lobe manifesting as paroxysmal speech disturbance--case report. Takano S, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):185–8

Pure amnesia caused by bilateral temporal lobe astrocytoma--case report. Umemura A, et al. **Neurol Med Chir (Tokyo)** 1997 Jul;37(7):556–9

Long-term follow-up after temporal lobe resection for lesions associated with chronic seizures [published erratum appears in Neurology 1997 Sep;49(3):904] Eliashiv SD, et al. **Neurology** 1997 Mar;48(3):621–6

Concurrence of multiple sclerosis and brain tumor: clinical considerations. Khan OA, et al. **Neurology** 1997 May; 48(5):1330–3

Associated blepharospasm in lower pontine lesions [letter; comment] Nair KR. **Neurology** 1997 Feb;48(2):553. Comment on: Neurology 1996 Feb;46(2):476–8.

Central neurogenic hyperventilation in an awake patient with a pontine glioma. Siderowf AD, et al. **Neurology** 1996 Apr; 46(4):1160–2

Surgical treatment of neoplasms associated with medically intractable epilepsy. Zentner J, et al. **Neurosurgery** 1997 Aug;41(2):378–86; discussion 386–7

Bilateral horizontal gaze palsy with pontine cavernous hemangioma: a case report. Shimura M, et al. **Ophthalmologica** 1997;211(5):320–2

Effects of brain stem lesions on cochlear function: mechanism of hearing improvement after removal of a brain stem tumor. Qiu WW, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):560–7

Episodic pain associated with a tumor in the parietal operculum: a case report and literature review. Potagas C, et al. **Pain** 1997 Aug;72(1-2):201–8 (70 ref.)

Dysphagia, dysarthria and falls in an elderly man. McGleenon B, et al. **Postgrad Med J** 1997 Jun; 73(860):321–2

Tumor detachments of the retinal pigment epithelium in ocular/ central nervous system lymphoma. Dean JM, et al. **Retina** 1996;16(1):47–56

Waldenström's macroglobulinemia associated with glioblastoma. A case report. Lamaida E, et al. **Rev Neurol (Paris)** 1996 Oct;152(10):637–9 (10 ref.)

Abscess superimposed on brain tumor: two case reports and review of the literature. Nassar SI, et al. **Surg Neurol** 1997 May;47(5):484–8 (14 ref.)

Intracranial germinoma with Down's syndrome: a case report and review of the literature. Tanabe M, et al. **Surg Neurol** 1997 Jan;47(1):28–31 (18 ref.)

[Uveitis of pseudosarcoidosic form disclosing primary cerebral lymphoma (letter)] Léone J, et al. **Rev Med Interne** 1996;17(9):771–2 **(Fre)**

[Conference at the Salpêtrière. 1995 January. Progressive multifocal cerebral involvement in a 70-year-old woman] Delattre JY, et al. **Rev Neurol (Paris)** 1996 Nov; 152(11):711–7 **(Fre)**

[Dysembryoplastic neuroepithelial tumors. A benign tumor cause of partial epilepsy in young adults] Lemesle M, et al. **Rev Neurol (Paris)** 1996 Jun-Jul;152(6-7):451–7 (18 ref.) (Eng. Abstr.) **(Fre)**

[Munster Heidelberg Abilities Scale--a measuring instrument for global comparison of illness sequelae] Wolff JE, et al. **Klin Padiatr** 1996 Sep-Oct;208(5):294–8 (Eng. Abstr.) **(Ger)**

[The neuropsychological study of 21 patients with expanding cerebral lesions. Preliminary results] Bucciero A, et al. **Minerva Psichiatr** 1995 Dec;36(4):199–202 (Eng. Abstr.) **(Ita)**

[Clinical onset of brain metastasis: ictus. Report of a case] Mancuso G, et al. **Recenti Prog Med** 1996 Sep;87(9):425–7 (Eng. Abstr.) **(Ita)**

[Image diagnosis and functional tests--vertigo due to cerebellar and brain stem disorders] Kitamura T. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul;99(7):1036–9 (9 ref.) **(Jpn)**

[Brain tumor and parkinsonism] Kondo T. **Nippon Rinsho** 1997 Jan;55(1):118–22 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Complex partial status epilepticus in a patient with a frontal cavernous angiomas] Eguchi T, et al. **No Shinkei Geka** 1996 Mar;24(3):259–62 (Eng. Abstr.) **(Jpn)**

[Chondrosarcoma of the skull base associated with fatal intratumoral hemorrhage : report of an autopsy case and review of the literature] Fukuchi M, et al. **No Shinkei Geka** 1996 Feb;24(2):175–80 (23 ref.) (Eng. Abstr.) **(Jpn)**

[A case report of dysembryoplastic neuroepithelial tumor associated with neurofibromatosis type 1] Kannuki S, et al. **No Shinkei Geka** 1996 Feb;24(2):183–8 (Eng. Abstr.) **(Jpn)**

[Localized glioma in the occipital lobe manifesting as scintillating scotoma: case report] Maruya J, et al. **No Shinkei Geka** 1997 Mar;25(3):265–9 (Eng. Abstr.) **(Jpn)**

BRAIN NEOPLASMS

[Management of hydrocephalus in the case with pineal region tumor] Miyagi K, et al. **No Shinkei Geka** 1996 Sep; 24(9):817–22 (Eng. Abstr.) **(Jpn)**

[Parasagittal meningioma growing in the superior sagittal sinus presenting intracranial hypertension: a case report] Soma M, et al. **No Shinkei Geka** 1996 Feb;24(2):165–8 (Eng. Abstr.) **(Jpn)**

[Brain stem glioma presenting with contralateral sensory impairment of ascending nature] Ikeda T, et al. **No To Shinkei** 1997 Jun;49(6):547–51 (Eng. Abstr.) **(Jpn)**

[Surgical management of intractable epilepsy in patients with ganglioglioma] Morioka T, et al. **No To Shinkei** 1997 Aug; 49(8):729–35 (Eng. Abstr.) **(Jpn)**

[Simple partial seizure consisting of complex visual hallucinations due to left temporo–occipital lesion] Takahashi N, et al. **Rinsho Shinkeigaku** 1996 May; 36(5):665–9 (Eng. Abstr.) **(Jpn)**

[Leakage of cerebrospinal fluid. Diagnosis and treatment] Elverland HH, et al. **Tidsskr Nor Laegeforen** 1996 Oct 30; 116(26):3098–101 (Eng. Abstr.) **(Nor)**

[Uveitis and primary cerebral lymphoma (letter)] Márquez de Prado Urquia MM, et al. **An Med Interna** 1996 Sep; 13(9):464 **(Spa)**

[Laryngeal amyloidosis and multiple myeloma: a case report] Lasso Luis O, et al. **An Otorrinolaringol Ibero Am** 1996; 23(5):511–24 (Eng. Abstr.) **(Spa)**

[Magnetic resonance imaging usefulness in the diagnosis of intratumor bleeding in hypophyseal adenomas] García–Asensio S, et al. **Rev Neurol** 1996 Oct; 24(134):1237–40 (Eng. Abstr.) **(Spa)**

CONGENITAL

MR of intracranial extension of nasopharyngeal teratoma [letter] Scheraga JL, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1494

Massive intracranial immature teratoma. Report of a case with polyhidramnios and intense pelvic pain. Soares FA, et al. **Arq Neuropsiquiatr** 1996 Jun;54(2):309–12

Three cases with nasopharyngeal/cranial teratomata. de Jong G, et al. **Birth Defects Orig Artic Ser** 1996;30(1):287–94

Desmoplastic cerebral glioblastoma of infancy. Al–Sarraj ST, et al. **Br J Neurosurg** 1996 Apr;10(2):215–9

Resolution of subependymal cysts in neonatal holocarboxylase synthetase deficiency. Squires L, et al. **Dev Med Child Neurol** 1997 Apr;39(4):267–9

Interhemispheric lipoma with variable callosal dysgenesis: relationship between embryology, morphology, and symptomatology. Demaerel P, et al. **Eur Radiol** 1996; 6(6):904–9

Congenital quadrigeminal lipoma with osteocartilagenous element. A case report. Kim JY, et al. **J Korean Med Sci** 1996 Dec;11(6):537–9

Congenital intracerebral teratoma: a rare differential diagnosis in newborn hydrocephalus. Storr U, et al. **Pediatr Radiol** 1997 Mar;27(3):262–4

DIAGNOSIS

Spin–lock imaging in contrast–enhanced magnetic resonance imaging of human gliomas. Aronen HJ, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S170–2

Inverse correlation between T1 relaxation times before and after administration of contrast media in malignant brain tumors. Niemi P, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S286–8

Synthesized surface anatomy scanning (SSAS) for surgical planning of brain metastasis at the sensorimotor region: initial experience with 5 patients. Imai F, et al. **Acta Neurochir (Wien)** 1996;138(3):290–3

Primary central nervous system lymphoma: variety of clinical manifestations and survival. Kim DG, et al. **Acta Neurochir (Wien)** 1996;138(3):280–9

MR imaging of multiple cerebral infarctions in angiotropic lymphoma (neoplastic angio–endotheliosis). Takagi Y, et al. **Acta Neurochir (Wien)** 1997;139(5):478–9

Gliomatosis cerebri: clinical, radiological and pathological report of a case with a stroke–like onset. Schoenen J, et al. **Acta Neurol Belg** 1996 Dec;96(4):294–300 (35 ref.)

Frontal glioma presenting as anxiety and obsessions: a case report. John G, et al. **Acta Neurol Scand** 1997 Sep; 96(3):194–5

Pseudopapillary neurocytoma of temporal lobe with glial differentiation. Kim DH, et al. **Acta Neuropathol (Berl)** 1997 Aug;94(2):187–91

Gliomatosis cerebri––an appropriate diagnosis? Case reports. Fallentin E, et al. **Acta Radiol** 1997 May;38(3):381–90

CT and MR imaging in primary cerebral non–Hodgkin's lymphoma. Lanfermann H, et al. **Acta Radiol** 1997 Mar; 38(2):259–67

High signal intensity of the infundibular stalk on fluid–attenuated inversion recovery MR. Araki Y, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):89–93

Focal cortical dysplasia of Taylor, balloon cell subtype: MR differentiation from low–grade tumors. Bronen RA, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul;18(6):1141–51

Intracranial chondroma. Brownlee RD, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):889–93 (17 ref.)

Rapidly progressive dementia caused by nonenhancing primary lymphoma of the central nervous system. Carlson BA. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1695–7

Intracranial hemangiopericytomas: MR and CT features. Chiechi MV, et al. **AJNR Am J Neuroradiol** 1996 Aug; 17(7):1365–71

Unusual location of an intracranial chondroma. De Coene B, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):573–5

Melanocytoma of the cavernous sinus: CT and MR findings. Faro SH, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul; 17(6):1087–90

Magnetization transfer effects on T1–weighted three–dimensional gradient–echo MR images of a phantom simulating enhancing brain lesions. Finelli DA. **AJNR Am J Neuroradiol** 1997 Jan;18(1):147–59

Reverse enhancement of hemorrhagic brain lesions on postcontrast MR: detection with digital image subtraction. Gaul HP, et al. **AJNR Am J Neuroradiol** 1996 Oct; 17(9):1675–80

Evaluation of intracranial lesions with inversion recovery half–Fourier single–shot turbo spin–echo MR: initial observations. Ikushima I, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):421–6

The variable MR appearance of primary lymphoma of the central nervous system: comparison with histopathologic features. Johnson BA, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):563–72

Spontaneous decrease of a pilocytic astrocytoma in neurofibromatosis type 1. Leisti EL, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1691–4

Atypical skull base paragangliomas. Noble ER, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):986–90

Dysembryoplastic neuroepithelial tumors: MR and CT evaluation. Ostertun B, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):419–30

Craniocerebral plasmacytoma: MR features. Provenzale JM, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):389–92

MR of recurrent high–grade astrocytomas after intralesional immunotherapy. Smith MM, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1065–71

Intracranial vascular calcifications, glioblastoma multiforme, and lead poisoning. Teo JG, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):576–9

Preliminary evaluation of fluid–attenuated inversion–recovery MR in the diagnosis of intracranial tumors. Tsuchiya K, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1081–6

Multivoxel proton MR spectroscopy and hemodynamic MR imaging of childhood brain tumors: preliminary observations. Tzika AA, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):203–18

Increased activity of the ipsilateral motor cortex during a hand motor task in patients with brain tumor and paresis. Yoshiura T, et al. **AJNR Am J Neuroradiol** 1997 May; 18(5):865–9

Neuroradiology case of the day. Dysembryoplastic neuroepithelial tumor. Lanzieri CF, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):293, 297–8

Radiation–induced cerebral osteogenic sarcoma [letter] Smith MM, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1067

Juvenile pilocytic astrocytoma masquerading as amblyopia. Roh S, et al. **Am J Ophthalmol** 1997 May;123(5):692–4

Diagnosis of HIV–related primary central nervous system lymphoma: is there still a role for brain biopsy? A case history. Viale P, et al. **Ann Oncol** 1997 May;8(5):491–6

Brain neoplasms with development similar to transient brain ischaemia. Kawiak W, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:87–9

Prognostic significance of Hsp–27 in astrocytic brain tumors: an immunohistochemical study. Assimakopoulou M, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2677–82

Pineal tumours in the north of England 1968–93. Bailey S, et al. **Arch Dis Child** 1996 Sep;75(3):181–5

Lag time for children with brain tumours [letter; comment] Eden OB, et al. **Arch Dis Child** 1996 Sep;75(3):266. Comment on: Arch Dis Child 1996 Feb;74(2):148–51.

A case of bilateral cavernous hemangioma associated with intracerebral hemangioma. Bell D, et al. **Arch Ophthalmol** 1997 Jun;115(6):818–9

Sellar and suprasellar hemangiopericytoma mimicking pituitary adenoma. Morrison DA, et al. **Arch Ophthalmol** 1997 Sep;115(9):1201–3

Frozen section evaluation of stereotactic brain biopsies: diagnostic yield at the stereotactic target position in 188 cases. Brainard JA, et al. **Arch Pathol Lab Med** 1997 May; 121(5):481–4

'Do I have a brain tumour, doctor'? Horne M. **Aust Fam Physician** 1997 May;26(5):528–33

NASA technology finds earthly use: robot will probe brain for tumors. **Biomed Instrum Technol** 1997 Mar–Apr; 31(2):170

Frontal lobe tumours. Aitken EM, et al. **Br J Clin Pract** 1996 Sep;50(6):339–41

Intracerebral osteoma: case report. Lee ST, et al. **Br J Neurosurg** 1997 Jun;11(3):250–2

Neuroblastoma and venous sinus thrombosis in an adult patient. Wester K, et al. **Br J Neurosurg** 1997 Jun; 11(3):241–4

Ocular non–Hodgkin's lymphoma: a clinical study of nine cases. Verbraeken HE, et al. **Br J Ophthalmol** 1997 Jan; 81(1):31–6

Case of the month. August 1996––frontal lobe tumor in 11 year old girl. Hamilton R. **Brain Pathol** 1997 Jan;7(1):713–4

December 1996––cervicomedullary tumor. Hamilton RL. **Brain Pathol** 1997 Apr;7(2):841–2

February 1997––9 year old girl with hydrocephalus. Hamilton RL. **Brain Pathol** 1997 Jul;7(3):1025–6 (9 ref.)

January 1997––7 year old girl with seizures. al–Hindi H, et al. **Brain Pathol** 1997 Jul;7(3):1023–4 (6 ref.)

Malignant gliomas in children. Johnson JH Jr, et al. **Cancer Invest** 1996;14(6):609–21 (72 ref.)

Neural networks analysis of astrocytic gliomas from MRI appearances. Abdolmaleki P, et al. **Cancer Lett** 1997 Sep 16;118(1):69–78

Supra– and infratentorial multiple cavernous angiomas in an infant: report with MR evaluation of an unusual case. Fujii M, et al. **Childs Nerv Syst** 1996 Sep;12(9):564–7

Technique of stereotactic biopsy in a 5–month–old child. Kondziolka D, et al. **Childs Nerv Syst** 1996 Oct; 12(10):615–8

MR imaging of multiple sclerosis simulating brain tumor. Kurihara N, et al. **Clin Imaging** 1996 Jul–Sep;20(3):171–7

Cerebral venous angiomas associated with hemorrhagic lesions. Their MRI manifestations. Uchino A, et al. **Clin Imaging** 1996 Jul–Sep;20(3):157–63

MRA of cranial tumors and vascular compressive lesions. Van Hemert RL. **Clin Neurosci** 1997;4(3):146–52 (20 ref.)

Assessment of regional cerebral blood flow images with non–diffusible contrast media and angio–CT. Comparison with Xe–CT. Bartolini A, et al. **Comput Med Imaging Graph** 1996 Jan–Feb;20(1):19–29

Metabolic imaging in the diagnosis of brain tumors. Slosman DO, et al. **Curr Opin Neurol** 1996 Dec;9(6):429–35 (46 ref.)

Recognition and management of gliomas. Kaba SE, et al. **Drugs** 1997 Feb;53(2):235–44 (56 ref.)

The auditory brain stem response in patients with brain stem or cochlear pathology. Musiek FE, et al. **Ear Hear** 1995 Dec;16(6):631–6

CT and MRI findings after stereotactic resection of brain lesions. Herman M, et al. **Eur J Radiol** 1996 Nov; 23(3):228–34

CT and MRI findings with pathological correlation of an intracerebral malignant fibrous histiocytoma (MFH): a case report. Berchtenbreiter CH, et al. **Eur Radiol** 1996; 6(6):910–2

Simultaneous presentation of pineal germinoma and testicular seminoma [letter] Chan TK, et al. **Eye** 1996;10 (Pt 5):637–9

Migraine with visual aura versus occipital epilepsy [letter; comment] Martínez JV, et al. **Headache** 1997 Feb;37(2):113 . Comment on: Headache 1996 Jan;36(1):49–52. Comment on: Headache 1996 Jan;36(1):53–7.

Morphological and immunohistochemical characterization of granular cells in non–hypophyseal tumours of the central nervous system. Rickert CH, et al. **Histopathology** 1997 May;30(5):464–71

Hamartomas in the setting of chronic epilepsy: a clinicopathologic study of 13 cases. Volk EE, et al. **Hum Pathol** 1997 Feb;28(2):227–32

Computerized tumor boundary detection using a Hopfield neural network. Zhu Y, et al. **IEEE Trans Med Imaging** 1997 Feb;16(1):55–67

Primary central nervous system lymphoma a report of nine cases. Lakshmaiah KC, et al. **Indian J Cancer** 1996 Jun; 33(2):103–7

Rosai–Dorfman disease presenting as a meningioma. Panicker NK, et al. **Indian J Cancer** 1996 Dec;33(4):192–4

Central nervous system ganglioglioma. A clinicopathologic study. Radhakrishnan VV, et al. **Indian J Cancer** 1996 Jun; 33(2):97–102

Gliomatosis cerebri––a case report. Radhakrishnan VV, et al. **Indian J Cancer** 1996 Sep;33(3):149–52

Dysembryoplastic neuroepithelial tumor. Kasturi L, et al. **Indian Pediatr** 1996 Aug;33(8):695–8

Using neural networks to automatically detect brain tumours in MR images. Dickson S, et al. **Int J Neural Syst** 1997 Feb;8(1):91–9

Clinical value of proton magnetic resonance spectroscopy for differentiating recurrent or residual brain tumor from delayed cerebral necrosis. Taylor JS, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1251–61

Multicentric and multifocal primary cerebral tumours. Methods of diagnosis and treatment. Salvati M, et al. **Ital J Neurol Sci** 1997 Feb;18(1):17–20

Correlation of medical and neurosurgical events with neuropsychological status in children at diagnosis of astrocytoma: utilization of a neurological severity score. Ater JL, et al. **J Child Neurol** 1996 Nov;11(6):462–9

Pontine neurocytoma. Soontornniyomkij V, et al. **J Clin Pathol** 1996 Sep;49(9):764–5

Short–term CT and MR changes in brain tumors following 125I interstitial irradiation. Moringlane JR, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):15–21

Alignment of volume MR images and high resolution [18F]fluorodeoxyglucose PET images for the evaluation of patients with brain tumors. Nelson SJ, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):183–91

A technique utilizing positron emission tomography and magnetic resonance/computed tomography image fusion to aid in surgical navigation and tumor volume determination. Kraus GE, et al. **J Image Guid Surg** 1995; 1(6):300–7

Jugular foramen neurilemmoma mimicking an intra–axial brainstem tumor––a case report. Lee YB, et al. **J Korean Med Sci** 1996 Jun;11(3):282–4

Cerebral leiomyoma in a child. Wang KC, et al. **J Korean Med Sci** 1997 Aug;12(4):378–82

Preliminary experience with the application of gadolinium–DTPA before MR imaging–guided

laser-induced interstitial thermotherapy of brain tumors. **Kahn T, et al. J Magn Reson Imaging** 1997 Jan-Feb; 7(1):226-9

Tissue characterization of intracranial tumors by magnetization transfer and spin-lattice relaxation parameters in vivo. **Kurki T, et al. J Magn Reson Imaging** 1996 Jul-Aug;6(4):573-9

Dual dynamic contrast-enhanced MR imaging. **Miyati T, et al. J Magn Reson Imaging** 1997 Jan-Feb;7(1):230-5

T1-weighted MR imaging of the brain using a fast inversion recovery pulse sequence. **Rydberg JN, et al. J Magn Reson Imaging** 1996 Mar-Apr;6(2):356-62

Classification of 1H MR spectra of human brain neoplasms: the influence of preprocessing and computerized consensus diagnosis on classification accuracy. **Somorjai RL, et al. J Magn Reson Imaging** 1996 May-Jun;6(3):437-44

Localized 2D J-resolved 1H MR spectroscopy of human brain tumors in vivo. **Thomas MA, et al. J Magn Reson Imaging** 1996 May-Jun;6(3):453-9

Primary brain malignant lymphoma newly diagnosed during pregnancy. **Imai A, et al. J Med** 1995;26(5-6):333-6

Magnetic resonance spectroscopy (MRS) in the evaluation of pediatric brain tumors, Part II: Clinical analysis. **Byrd SE, et al. J Natl Med Assoc** 1996 Nov;88(11):717-23

Magnetic resonance appearance of cerebral lymphomatoid granulomatosis. **Bhagavatula K, et al. J Neuroimaging** 1997 Apr;7(2):120-1

Appearance of ependymomas [letter] **Ellenberger C Jr, et al. J Neuroimaging** 1997 Apr;7(2):133

Clinical application of functional magnetic resonance imaging (fMRI) to surgery in the brain [letter] **Lundquist P, et al. J Neuroimaging** 1997 Apr;7(2):131-3

Paraneoplastic opsoclonus associated with cancer of the gall bladder [letter] **Corcia P, et al. J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):293

Urinary retention in bilateral pontine tumour: evidence for a pontine micturition centre in humans [letter] **Manente G, et al. J Neurol Neurosurg Psychiatry** 1996 Nov; 61(5):528-9

Primary brain lymphomas in patients with a prior or concomitant malignancy. **Reni M, et al. J Neurooncol** 1997 Apr;32(2):135-42

Prediction of posterior fossa tumor type in children by means of magnetic resonance image properties, spectroscopy, and neural networks. **Arle JE, et al. J Neurosurg** 1997 May; 86(5):755-61

Giant chondroma of the falx. Case report and review of the literature. **Kurt E, et al. J Neurosurg** 1996 Dec;85(6):1161-4 (31 ref.)

Utility of relative cerebral blood volume mapping derived from perfusion magnetic resonance imaging in the routine follow up of brain tumors. **Siegal T, et al. J Neurosurg** 1997 Jan;86(1):22-7

Intraparenchymal schwannoma of the frontal lobe. **Deogaonkar M, et al. J Postgrad Med** 1994 Oct-Dec; 40(4):218-9

Fetal intraventricular glioblastoma: ultrasonographic, magnetic resonance imaging, and pathologic findings. **Guibaud L, et al. J Ultrasound Med** 1997 Apr;16(4):285-8

Intrasellar and suprasellar germinoma. **Lin CL, et al. Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jul; 13(7):462-6

Role of gemistocytes in astrocytoma progression. **Watanabe K, et al. Lab Invest** 1997 Feb;76(2):277-84

Exophytic brain tumors mimicking primary lesions of the cerebellopontine angle. **Ahn MS, et al. Laryngoscope** 1997 Apr;107(4):466-71

Discrimination of brain abscess from necrotic or cystic tumors by diffusion-weighted echo planar imaging. **Ebisu T, et al. Magn Reson Imaging** 1996;14(9):1113-6

Macroscopic tumor volume of malignant glioma determined by contrast-enhanced magnetic resonance imaging with and without magnetization transfer contrast. **Hawighorst H, et al. Magn Reson Imaging** 1996;14(10):1119-26

Fast flair imaging of the brain using the fast spin-echo and gradient spin-echo technique. **Hittmair K, et al. Magn Reson Imaging** 1997;15(4):405-14

Gd-enhanced MR imaging of brain metastases: contrast as a function of dose and lesion size. **Van Dijk P, et al. Magn Reson Imaging** 1997;15(5):535-41

Improvement of brain lesion detection at 0.1 T by simultaneous use of Gd-DTPA and magnetization transfer imaging. **Ramadan UA, et al. Magn Reson Med** 1997 Feb; 37(2):268-74

Improved intracranial lesion characterization by tissue segmentation based on a 3D feature map. **Vinitski S, et al. Magn Reson Med** 1997 Mar;37(3):457-69

19-year-old man with headache and confusion. **Razmi RM, et al. Mayo Clin Proc** 1997 Apr;72(4):373-6

False positive images in the follow-up of patients with brain tumors. **Moghrabi A, et al. Med Pediatr Oncol** 1997 Feb; 28(2):127-31

Late recurrence of a brain tumor [clinical conference] **Needle MN, et al. Med Pediatr Oncol** 1997 Jul;29(1):67-71

Analyses of prognostic factors in a retrospective review of 92 children with ependymoma: Italian Pediatric Neuro-oncology Group. **Perilongo G, et al. Med Pediatr Oncol** 1997 Aug;29(2):79-85

Cavernous angioma of the brain stem mimicking multiple sclerosis [letter] **Vrethem M, et al. N Engl J Med** 1997 Mar 20;336(12):875-6

Primary central nervous system lymphoma in patients with AIDS. **Ruiz A, et al. Neuroimaging Clin N Am** 1997 May; 7(2):281-96 (44 ref.)

Differentiation of cerebral radiation necrosis from tumor recurrence by proton magnetic resonance spectroscopy. **Kamada K, et al. Neurol Med Chir (Tokyo)** 1997 Mar; 37(3):250-6

Peritumoral edema and seizure in patients with cerebral convexity and parasagittal meningiomas. **Kawaguchi T, et al. Neurol Med Chir (Tokyo)** 1996 Aug;36(8):568-73; discussion 573-4

Microcystic meningioma without enhancement on neuroimaging--case report. **Kubota Y, et al. Neurol Med Chir (Tokyo)** 1997 May;37(5):407-10

Bilateral giant intracavernous carotid artery aneurysms mimicking a cavernous sinus neoplasm--case report. **Matsumoto K, et al. Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):583-5

Mn-metalloporphyrin conjugated with Gd-DTPA (Gd-ATN10): tumor enhancement agent for magnetic resonance imaging. **Matsumura A, et al. Neurol Med Chir (Tokyo)** 1997 Apr;37(4):327-31

Magnetic resonance imaging quantitation of superior sagittal sinus flow: correlation to cerebral blood flow measured by xenon-enhanced computed tomography. **Inao S, et al. Neurol Res** 1997 Feb;19(1):35-40

Pathology of brain tumors: the current state of diagnostic practice. **Weller RO, et al. Neuropathol Appl Neurobiol** 1996 Oct;22(5):407-14 (24 ref.)

Cytomegalovirus encephalitis and primary cerebral lymphoma mimicking Wernicke's encephalopathy. **Brechtelsbauer DL, et al. Neuroradiology** 1997 Jan; 39(1):19-22

Tumefactive demyelinating lesions. **Dagher AP, et al. Neuroradiology** 1996 Aug;38(6):560-5 (27 ref.)

Gliomatosis cerebri presenting with optic nerve involvement: MRI. **Felsberg GJ, et al. Neuroradiology** 1996 Nov; 38(8):774-7

MR diffusion imaging of human intracranial tumours. **Krabbe K, et al. Neuroradiology** 1997 Jul;39(7):483-9

Intracranial plasmacytoma: a case report. **Mäntylä R, et al. Neuroradiology** 1996 Oct;38(7):646-9

Familial presumed cerebral cavernous angiomas diagnosed by MRI: three generations. **Mori T, et al. Neuroradiology** 1996 Oct;38(7):641-5

Intracranial metastases of hepatocellular carcinoma: CT and MRI. **Murakami K, et al. Neuroradiology** 1996 May;38 Suppl 1:S31-5

Three-dimensional chemical shift-selective MRI of a ruptured intracranial dermoid cyst. **Nägele T, et al. Neuroradiology** 1996 Aug;38(6):572-4

Deep cerebral invasion by basal cell carcinoma of the scalp. **Parizel PM, et al. Neuroradiology** 1996 Aug;38(6):575-7

MRI of high-grade glial tumors: correlation between the degree of contrast enhancement and the volume of surrounding edema. **Pronin IN, et al. Neuroradiology** 1997 May;39(5):348-50

A difficult diagnosis of gliomatosis cerebri. **Pyhtinen J, et al. Neuroradiology** 1996 Jul;38(5):444-8

Trilateral retinoblastoma with suprasellar involvement. **Skulski M, et al. Neuroradiology** 1997 Jan;39(1):41-3

Clinical presentation of intracranial metastases. **Das A, et al. Neurosurg Clin N Am** 1996 Jul;7(3):377-91 (65 ref.)

Overview of functional imaging. **Haglund MM. Neurosurg Clin N Am** 1997 Jul;8(3):287-91

Pleomorphic xanthoastrocytoma: some observations. **Cervoni L, et al. Neurosurg Rev** 1996;19(1):13-6 (20 ref.)

Intracerebral schwannoma: case report and review. **Erongun U, et al. Neurosurg Rev** 1996;19(4):269-74 (35 ref.)

Spinal metastases of cerebral glioma. Case report. **Koch D. Neurosurg Rev** 1996;19(3):201-3

Functional magnetic resonance imaging of regional brain activity in patients with intracerebral gliomas: findings and implications for clinical management. **Atlas SW, et al. Neurosurgery** 1996 Feb;38(2):329-38

Brain stem involvement in children with neurofibromatosis type 1: role of magnetic resonance imaging and spectroscopy in the distinction from diffuse pontine glioma. **Broniscer A, et al. Neurosurgery** 1997 Feb;40(2):331-7; discussion 337-8 (29 ref.)

Dysembryoplastic neuroepithelial tumors located in the caudate nucleus area: report of four cases. **Cervera-Pierot P, et al. Neurosurgery** 1997 May;40(5):1065-9; discussion 1069-70

A clinico-immunohistochemical study of giant cell glioblastoma. **Huang MC, et al. Noshuyo Byori** 1996 Apr; 13(1):11-6

Pleomorphic xanthoastrocytoma with neurofibromatosis type 1: case report. **Kubo O, et al. Noshuyo Byori** 1996 Apr; 13(1):79-83

Gliomatosis cerebri: a case report. **Matsumoto T, et al. Noshuyo Byori** 1996 Apr;13(1):67-71

Functional characterization of brain tumors: an overview of the potential clinical value. **Brunetti A, et al. Nucl Med Biol** 1996 Aug;23(6):699-715 (274 ref.)

Cerebral and spinal cord myxopapillary ependymomas: a case report. **al Moutaery K, et al. Pathology** 1996 Nov; 28(4):373-6

Diagnostic imaging in neuro-oncology. **Vezina LG. Pediatr Clin North Am** 1997 Jun;44(3):701-19 (33 ref.)

Lyme neuroborreliosis masquerading as a brainstem tumor in a 15-year-old. **Curless RG, et al. Pediatr Neurol** 1996 Oct;15(3):258-60

Leptomeningeal fibrosis and the delayed diagnosis of a central nervous system neoplasm (primitive neuroectodermal tumor). **Robertson PL, et al. Pediatr Neurol** 1997 Jan;16(1):74-8

Diffuse brainstem tumors: when is a biopsy necessary? **Albright AL. Pediatr Neurosurg** 1996;24(5):252-5 (27 ref.)

Radiologic classification of brain stem tumors: correlation of magnetic resonance imaging appearance with clinical outcome. **Fischbein NJ, et al. Pediatr Neurosurg** 1996; 24(1):9-23

Dorsally exophytic brain stem tumors and midbrain tumors. **Hoffman HJ. Pediatr Neurosurg** 1996;24(5):256-62

Spinal magnetic resonance imaging immediately after craniotomy for detection of metastatic disease. **Kaufman BA, et al. Pediatr Neurosurg** 1995;23(4):171-81

Prognostic value of contrast-enhanced magnetic resonance imaging in brainstem gliomas. **Moghrabi A, et al. Pediatr Neurosurg** 1995;23(6):293-8

A serial CT scan and MRI verification of diffuse cerebrospinal gliomatosis: a case report with stereotactic diagnosis and radiological confirmation. **Onal C, et al. Pediatr Neurosurg** 1996 Aug;25(2):94-9 (50 ref.)

Brainstem tumors in childhood: preparing patients and families for long- and short-term care. **Shiminski-Maher T. Pediatr Neurosurg** 1996;24(5):267-71 (11 ref.)

Neuroimaging of primary brainstem gliomas: diagnosis and course. **Zimmerman RA. Pediatr Neurosurg** 1996 Jul; 25(1):45-53

Neuroimaging of pediatric brain stem diseases other than brain stem glioma. **Zimmerman RA. Pediatr Neurosurg** 1996 Aug;25(2):83-92 (11 ref.)

Tumour volume determination from MR images by morphological segmentation. **Gibbs P, et al. Phys Med Biol** 1996 Nov;41(11):2437-46

Unilateral foot drop. **Lath R, et al. Postgrad Med J** 1996 Sep;72(851):573-4

Astrocytomas arising in the tectal region of the mesencephalon: report of two cases. **Toyoda T, et al. Radiat Med** 1995 Nov-Dec;13(6):315-7 (17 ref.)

Germinoma arising in the basal ganglia in early stage: CT and MR findings. **Yamana D, et al. Radiat Med** 1995 Nov-Dec;13(6):305-8 (30 ref.)

An artificial intelligence program for the radiologic diagnosis of brain lesions. **Rasuli P, et al. Radiographics** 1996 Sep; 16(5):1207-13

Gliomas: correlation of magnetic susceptibility artifact with histologic grade. **Bagley LJ, et al. Radiology** 1997 Feb; 202(2):511-6

Thermal effects of focused ultrasound on the brain: determination with MR imaging. **Hynynen K, et al. Radiology** 1997 Jul;204(1):247-53

Brain abscess and brain tumor: discrimination with in vivo H-1 MR spectroscopy. **Kim SH, et al. Radiology** 1997 Jul; 204(1):239-45

Brain tumors: localized H-1 MR spectroscopy at 0.5 T. **Prost R, et al. Radiology** 1997 Jul;204(1):235-8

Contrast-enhanced magnetization transfer imaging: improvement of brain tumor conspicuity and delineation for radiosurgical target volume definition. **Hawighorst H, et al. Radiother Oncol** 1997 Jun;43(3):261-7

Masculinizing and feminizing syndromes caused by functioning tumors. **Masiakos PT, et al. Semin Pediatr Surg** 1997 Aug;6(3):147-55 (64 ref.)

Paradoxic appearance of calcification on MRI. **Kuzma BB, et al. Surg Neurol** 1996 Nov;46(5):513-4

Pleomorphic xanthoastrocytoma: report of six cases with special consideration of diagnostic and therapeutic pitfalls. **Tonn JC, et al. Surg Neurol** 1997 Feb;47(2):162-9 (27 ref.)

Pontine glioma with osteoblastic skeletal metastases in a child. **Yanagawa Y, et al. Surg Neurol** 1996 Nov; 46(5):481-4 (15 ref.)

Primary leiomyosarcoma of brain in an adolescent with common variable immunodeficiency syndrome. **Mierau GW, et al. Ultrastruct Pathol** 1997 May-Jun;21(3):301-5

Malignant rhabdoid tumor of the central nervous system. **Ruiz ME, et al. Wis Med J** 1996 Dec;95(12):864-6 (7 ref.)

Primary central nervous system non-Hodgkin's lymphoma (PCNSL): does age and histology at presentation affect outcome? **Schaller C, et al. Zentralbl Neurochir** 1996; 57(3):156-62

[Lyme neuro-borreliosis in a 66-year old women. Differential diagnosis of cerebral metastases and cerebral infarction] **Henriksen TB. Ugeskr Laeger** 1997 May 19;159(21):3175-7 (Eng. Abstr.) **(Dan)**

[What is your diagnosis? Neurofibromatosis 1] **Adamsbaum C, et al. J Neuroradiol** 1997 Jun;24(1):17, 76-7 **(Fre)**

[Intracerebral tumor calcifications unrecognized by MRI] **Venet C, et al. J Radiol** 1997 Jan;78(1):55-6 (Eng. Abstr.) **(Fre)**

[Primary cerebral lymphoma in AIDS. Retrospective study of 20 patients] **de La Blanchardière A, et al. Presse Med** 1997 Jun 14;26(20):940-4 (Eng. Abstr.) **(Fre)**

[Emergency medicine for the practitioner: headaches (published erratum appears in Rev Med Suisse Romande 1997 May;117(5):5)] **Higelin F, et al. Rev Med Suisse Romande** 1997 Apr;117(4):295-8 **(Fre)**

[Erythema elevatum diutinum. A rare dermatosis with a broad spectrum of associated illnesses] **Gerbig AW, et al. Hautarzt** 1997 Feb;48(2):113-7 (25 ref.) (Eng. Abstr.) **(Ger)**

[High dosage administration of paramagnetic contrast media

in diagnosis of focal brain lesions] Forsting M, et al. **Radiologe** 1996 Feb;36(2):101–6 (29 ref.) (Eng. Abstr.) **(Ger)**

[Primary malignant lymphoma of the brain] Hartmann M, et al. **Radiologe** 1997 Jan;37(1):42–50 (26 ref.) (Eng. Abstr.) **(Ger)**

[Rare intracranial plasmacytoma manifestations. Case reports and review of the literature in diffuse plasmocytoma, in primary solitary extramedullary plasmacytoma in in primary solitary osseous plasmacytoma] Kujat C, et al. **Radiologe** 1996 Nov;36(11):914–20 (42 ref.) (Eng. Abstr.) **(Ger)**

[Dysembryoplastic neuroepithelial tumor (DNT). Pattern of neuroradiologic findings] Reiche W, et al. **Radiologe** 1996 Nov;36(11):884–9 (Eng. Abstr.) **(Ger)**

[Computed tomographic and magnetic resonance tomographic findings in pilocytic astrocytoma] Huber G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Feb;166(2):125–32 (Eng. Abstr.) **(Ger)**

[A solitary toxoplasmosis focus simulating a brain tumor as the first manifestation of AIDS] Röricht S, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):201–3 (12 ref.) **(Ger)**

[The revised WHO classification of brain tumors. Radiological aspects of 4 new tumor entities] Zimmer C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):522–7 (Eng. Abstr.) **(Ger)**

[Single and double echo turbo spin–echo sequences in routine MRI diagnosis of the brain. Clinical results and theoretical approaches] Fellner C, et al. **Rontgenpraxis** 1997 Jul; 50(7):214–23 **(Ger)**

[Value of 3D–MP–RAGE technique in MRI imaging of intracranial space–occupying lesions] Held P, et al. **Rontgenpraxis** 1997 May;50(5):97–102 **(Ger)**

[Value of magnetic resonance tomography in diagnosis of drug–resistant epilepsy] Zeitler H, et al. **Rontgenpraxis** 1997 Apr;50(4):83–7 (18 ref.) **(Ger)**

[First Hungarian experiences with positron emission tomography (PET) studies. Members of the PET working group] Trón L, et al. **Orv Hetil** 1997 Feb 2;138(5):259–69 (50 ref.) (Eng. Abstr.) **(Hun)**

[Pleomorphic xanthoastrocytoma] Vajtai I, et al. **Orv Hetil** 1997 Apr 20;138(16):991–7 (41 ref.) (Eng. Abstr.) **(Hun)**

[Diagnosis and treatment of metastatic brain tumor] Nakagawa H, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(10):1235–47 (50 ref.) (Eng. Abstr.) **(Jpn)**

[Diagnostic accuracy of 201T1 SPECT.MRI in brain diseases and inter–reader variance of diagnostic performance] Machida K, et al. **Kaku Igaku** 1996 Sep;33(9):943–52 (Eng. Abstr.) **(Jpn)**

[Correlation between MR imaging and histopathological findings of cystic metastatic brain tumors] Fukusumi A, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Dec; 56(14):1019–26 (Eng. Abstr.) **(Jpn)**

[Quantification of brain metabolites by 1H spectroscopy using cyclohexane as an external reference] Maeda H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):579–87 (Eng. Abstr.) **(Jpn)**

[Double–dose Gd–DTPA: detectability of intraparenchymal brain metastasis] Tatsuno S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):855–9 (Eng. Abstr.) **(Jpn)**

[Image diagnosis and functional tests––vertigo due to cerebellar and brain stem disorders] Kitamura T. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul;99(7):1036–9 (9 ref.) **(Jpn)**

[A case of infantile ganglioglioma] Kitahara T, et al. **No Shinkei Geka** 1995 Dec;23(12):1111–5 (Eng. Abstr.) **(Jpn)**

[Efficacy of the TURBO–fluid attenuated inversion recovery spin echo sequence of MRI as a preoperative neuroradiological examination] Nakaguchi H, et al. **No Shinkei Geka** 1997 Jul;25(7):599–606 (Eng. Abstr.) **(Jpn)**

[Transient decrease in the size of an enhanced anaplastic astrocytoma seen on magnetic resonance imaging: a case report] Suzuki K, et al. **No Shinkei Geka** 1997 Jul; 25(7):661–4 (Eng. Abstr.) **(Jpn)**

[Extrapyramidal signs in the course of cystic meningioma of cerebral hemisphere] Czepko R, et al. **Neurol Neurochir Pol** 1996 May–Jun;30(3):503–7 (Eng. Abstr.) **(Pol)**

[Multiple pleomorphic xanthoastrocytoma tumors in a 12–year–old girl] Daszkiewicz P, et al. **Neurol Neurochir Pol** 1996 May–Jun;30(3):517–24 (Eng. Abstr.) **(Pol)**

[Multifocal astrocytoma diagnosed by peroperative ultrasound scanning] Harat M, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):861–6 (Eng. Abstr.) **(Pol)**

[Primary brain lymphoma: diagnostic problems] Mierzejewska E, et al. **Neurol Neurochir Pol** 1996 Nov–Dec;30(6):1033–42 (Eng. Abstr.) **(Pol)**

[Brain tumor and imminent premature labor: a case report] Zukiel R, et al. **Neurol Neurochir Pol** 1996 Nov–Dec; 30(6):1057–63 (Eng. Abstr.) **(Pol)**

[Otoneurological symptoms and their changes after removal of pineal tumors] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1997;(3):18–24 (Eng. Abstr.) **(Rus)**

[The dynamics of the vestibulocochlear syndrome after the removal of tumors in the pineal area] Blagoveshchenskaia NS, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Apr–Jun;(2):22–5 (Eng. Abstr.) **(Rus)**

[The comparative characteristics of the otoneurological disorders and of the computed and magnetic resonance tomographic data in tumors of the pineal area] Blagoveshchenskaia NS, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr–Jun; (2):10–4 (Eng. Abstr.) **(Rus)**

[The level of embryonic antigens in the blood serum and cerebrospinal fluid of neuro–oncological patients] Rudenko VA, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul–Sep;(3):32–5 (Eng. Abstr.) **(Rus)**

[Neurosarcoidosis mimicking cerebral tumor] Herrero Fernández B, et al. **An Med Interna** 1997 Mar;14(3):139–41 (13 ref.) (Eng. Abstr.) **(Spa)**

[Astrocytomas in pediatrics. The prognostic factors and survival] López–Aguilar E, et al. **Gac Med Mex** 1997 May–Jun;133(3):231–5 (Eng. Abstr.) **(Spa)**

[A young woman with right hemiparesia, diplopia and familial antecedents of neurologic disease] Sánchez–Chaparro MA, et al. **Rev Clin Esp** 1996 Oct; 196(10):723–4 **(Spa)**

[Parkinson's syndrome as presentation form of left fronto–parietal meningioma. Letter] Higes F, et al. **Rev Neurol** 1996 Oct;24(134):1304 **(Spa)**

[Primary cerebral lymphoma: atypical image] Madrid A, et al. **Rev Neurol** 1996 Oct;24(134):1301 **(Spa)**

[Clinical assessment without direct contact with the patient. Very delayed diagnosis of brain tumor] Samuelsson K. **Lakartidningen** 1997 Sep 3;94(36):3075–6 **(Swe)**

DRUG THERAPY

Therapy–related chronic myelomonocytic leukaemia with bone marrow eosinophilia associated with der(11)t(1;11)(q21;q14). Muroi K, et al. **Acta Haematol** 1996;96(4):251–4

Cellular targets of exogenous tumour necrosis factor–alpha (TNF alpha) in human gliomas. Maruno M, et al. **Acta Neurochir (Wien)** 1996;138(12):1437–41

Polymeric controlled–release amsacrine chemotherapy in an experimental glioma model. Wahlberg LU, et al. **Acta Neurochir (Wien)** 1996;138(11):1323–9; discussion 1329–30

Effect of glucocorticoids on ICP in patients with a cerebral tumour. Skjoeth J, et al. **Acta Neurol Scand** 1997 Sep; 96(3):167–70

Acceptability of patients with brain metastases for clinical trials of chemotherapy for metastatic non–small–cell lung cancer. Ando Y, et al. **Am J Clin Oncol** 1996 Oct; 19(5):478–82

Phase II trial with BCNU plus alpha–interferon in patients with recurrent high–grade gliomas. Brandes AA, et al. **Am J Clin Oncol** 1997 Aug;20(4):364–7

Activity of combination chemotherapy in brain metastases from breast and lung adenocarcinoma. Colleoni M, et al. **Am J Clin Oncol** 1997 Jun;20(3):303–7

Intravenous carboplatin for recurrent gliomas. A dose–escalating phase II trial. Prados MD, et al. **Am J Clin Oncol** 1996 Dec;19(6):609–12

Effect of brain irradiation on blood–CSF barrier permeability of chemotherapeutic agents. Qin D, et al. **Am J Clin Oncol** 1997 Jun;20(3):263–5

Treatment of central nervous system xenografts with camptothecins. Friedman HS, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:210–2

Effects of WR–2721 (amifostine) and its metabolite WR–1065 on the antiproliferative activity of chemotherapeutic agents on neuroblastoma cells in vitro. Fulda S, et al. **Anticancer Drugs** 1997 Jan;8(1):34–41

Chemotherapy for malignant gliomas. Forsyth PA, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):371–93 (112 ref.)

Biological and monoclonal antibody therapy for high–grade gliomas. Hoang–Xuan K, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):395–411 (98 ref.)

Urokinase antisense oligodeoxynucleotides as a novel therapeutic agent for malignant glioma: in vitro and in vivo studies of uptake, effects and toxicity. Engelhard H, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):400–5

Inhibitory effect of selenium and change of glutathione peroxidase activity on rat glioma. Zhang ZH, et al. **Biol Trace Elem Res** 1996 Oct–Nov;55(1–2):31–8

The role of high–dose chemotherapy and stem cell rescue in the treatment of malignant brain tumors. Finlay JL. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S1–5 (20 ref.)

DNA interstrand cross–linking and cytotoxicity induced by chloroethylnitrosoureas and cisplatin in human glioma cell lines which vary in cellular concentration of O6–alkylguanine–DNA alkyltransferase. Beith J, et al. **Br J Cancer** 1997;75(4):500–5

A pilot study of concurrent whole–brain radiotherapy and chemotherapy combined with cisplatin, vindesine and mitomycin in non–small–cell lung cancer with brain metastasis. Furuse K, et al. **Br J Cancer** 1997;75(4):614–8

Murine P–glycoprotein on stromal vessels mediates multidrug resistance in intracerebral human glioma xenografts. Takamiya Y, et al. **Br J Cancer** 1997;76(4):445–50

Proliferation, migration and invasion of human glioma cells exposed to paclitaxel (Taxol) in vitro. Terzis AJ, et al. **Br J Cancer** 1997;75(12):1744–52

Suramin disrupts insulin–like growth factor–II (IGF–II) mediated autocrine growth in human SH–SY5Y neuroblastoma cells. Sullivan KA, et al. **Brain Res** 1997 Jan 9;744(2):199–206

Drug delivery to brain tumors. Walker WL, et al. **Bull Math Biol** 1996 Nov;58(6):1047–74

Pre–radiation chemotherapy for malignant glioma in adults. Kirby S, et al. **Can J Neurol Sci** 1996 May;23(2):123–7

Add–on gabapentin for refractory seizures in patients with brain tumours. Perry JR, et al. **Can J Neurol Sci** 1996 May; 23(2):128–31

Adjuvant chemotherapy for the treatment of intracranial ependymoma of childhood. Needle MN, et al. **Cancer** 1997 Jul 15;80(2):341–7

Thiotepa and etoposide treatment of recurrent malignant gliomas: phase I study. Balmaceda C, et al. **Cancer Chemother Pharmacol** 1997;40(1):72–4

Therapeutic efficacy of the topoisomerase I inhibitor 7–ethyl–10–(4–[1–piperidino]–1–piperidino)–carbonyloxy–camptothecin against pediatric and adult central nervous system tumor xenografts. Hare CB, et al. **Cancer Chemother Pharmacol** 1997;39(3):187–91

Intraarterial O6–benzylguanine enables the specific therapy of nitrosourea–resistant intracranial human glioma xenografts in athymic rats with 1,3–bis(2–chloroethyl)–1–nitrosourea. Kurpad SN, et al. **Cancer Chemother Pharmacol** 1997;39(4):307–16

L–amino acid oxidase (LOX) modulation of melphalan activity against intracranial glioma. Moynihan K, et al. **Cancer Chemother Pharmacol** 1997;39(3):179–86

Interstitial delivery of carboplatin via biodegradable polymers is effective against experimental glioma in the rat. Olivi A, et al. **Cancer Chemother Pharmacol** 1996; 39(1–2):90–6

Optimizing interstitial delivery of BCNU from controlled release polymers for the treatment of brain tumors. Sipos EP, et al. **Cancer Chemother Pharmacol** 1997;39(5):383–9

Purified herpes simplex thymidine kinase Retrovector particles. I. In vitro characterization, in situ transduction efficiency, and histopathological analyses of gene therapy–treated brain tumors. Kruse CA, et al. **Cancer Gene Ther** 1997 Mar–Apr;4(2):118–28

The role of chemotherapy in recurrent malignant gliomas: an overview. Brandes AA, et al. **Cancer Invest** 1996; 14(6):551–9 (83 ref.)

Local delivery of chemotherapy and concurrent external beam radiotherapy prolongs survival in metastatic brain tumor models. Ewend MG, et al. **Cancer Res** 1996 Nov 15;56(22):5217–23

Preclinical development of a recombinant toxin containing circularly permuted interleukin 4 and truncated Pseudomonas exotoxin for therapy of malignant astrocytoma. Puri RK, et al. **Cancer Res** 1996 Dec 15; 56(24):5631–7

Gestational choriocarcinoma metastatic to the brain treated successfully by stereotactic radiosurgery and chemotherapy. Leslie MD, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):259–60

Anticonvulsant usage is associated with an increased risk of procarbazine hypersensitivity reactions in patients with brain tumors. Lehmann DF, et al. **Clin Pharmacol Ther** 1997 Aug;62(2):225–9

Duke researchers link brain tumor drug resistance to mismatch repair deficiency [news] **Compr Ther** 1997 Sep; 23(9):622–3

Radiotherapy and chemotherapy for gliomas. Delattre JY, et al. **Curr Opin Oncol** 1996 May;8(3):196–203 (76 ref.)

Ukrain therapy in a frontal anaplastic grade III astrocytoma (case report). Steinacker J, et al. **Drugs Exp Clin Res** 1996; 22(3–5):275–7

Chemotherapy of high–grade gliomas: beginning of a new era or the end of the old? [editorial] Brada M, et al. **Eur J Cancer** 1996 Dec;32A(13):2193–4

The Charing Cross Hospital experience with temozolomide in patients with gliomas. Newlands ES, et al. **Eur J Cancer** 1996 Dec;32A(13):2236–41

IgE–mediated allergic reaction to hyaluronidase in paediatric oncological patients. Szépfalusi Z, et al. **Eur J Pediatr** 1997 Mar;156(3):199–203

Quantitative DNA analysis of an intracerebrally transplanted brain tumour model after experimental chemotherapy with BCNU and CCNU. Schlegel J, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):313–8

Lymphomatous infiltrates within leptomeninges and spinal roots in adult patients with non–Hodgkin's lymphomas after intrathecal methotrexate administration. Nowacki P, et al. **Folia Neuropathol** 1996;34(2):114–8

Transduction of cytosine deaminase gene makes rat glioma cells highly sensitive to 5–fluorocytosine. Ge K, et al. **Int J Cancer** 1997 May 16;71(4):675–9

Radiation and chemotherapy improve outcome in oligodendroglioma. Allison RR, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):399–403

Phase II trial of docetaxel in patients with recurrent malignant glioma: a study of the National Cancer Institute of Canada Clinical Trials Group. Forsyth P, et al. **Invest New Drugs** 1996;14(2):203–6

Preirradiation paclitaxel in glioblastoma multiforme: efficacy, pharmacology, and drug interactions. New Approaches to Brain Tumor Therapy Central Nervous System Consortium. Fetell MR, et al. **J Clin Oncol** 1997 Sep; 15(9):3121–8

Effective chemotherapy for advanced CNS embryonal tumors in adults. Galanis E, et al. **J Clin Oncol** 1997 Aug; 15(8):2939–44

TPDC–FuHu chemotherapy for the treatment of recurrent metastatic brain tumors. Kaba SE, et al. **J Clin Oncol** 1997 Mar;15(3):1063–70

Treatment for rare brain tumors veers from traditional tack [news] McBride G. **J Natl Cancer Inst** 1997 Jul 2; 89(13):912–3

Early changes in peritumorous oedema and contralateral white matter after dexamethasone: a study using proton magnetic resonance spectroscopy. Chumas P, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):590–5

MOPP chemotherapy without irradiation as primary postsurgical therapy for brain tumors in infants and young children. Ater JL, et al. **J Neurooncol** 1997 May; 32(3):243–52

Estramustine in malignant glioma. Bergenheim AT, et al. **J Neurooncol** 1996 Oct;30(1):81–9 (79 ref.)

Early chemotherapy and concurrent radio–chemotherapy in high grade glioma. Brandes AA, et al. **J Neurooncol** 1996 Dec;30(3):247–55

Phase II study of 5–fluorouracil and leucovorin in recurrent primary brain tumor. Cascino TL, et al. **J Neurooncol** 1996 Dec;30(3):243–6

Chemotherapy for medulloblastomas and primitive neuroectodermal tumors. Cohen BH, et al. **J Neurooncol** 1996 Jul;29(1):55–68 (58 ref.)

All–trans retinoic acid in relapsing malignant gliomas: clinical and radiological stabilization associated with the appearance of intratumoral calcifications. Defer GL, et al. **J Neurooncol** 1997 Sep;34(2):169–77

Therapy of primary central nervous system lymphoma with pre–irradiation methotrexate, cyclophosphamide, doxorubicin, vincristine, and dexamethasone (MCHOD). Glass J, et al. **J Neurooncol** 1996 Dec;30(3):257–65

The treatment of recurrent cerebral gliomas with all–trans–retinoic acid (tretinoin). Kaba SE, et al. **J Neurooncol** 1997 Sep;34(2):145–51

Resolution of recurrent malignant ganglioglioma after treatment with cis–retinoic acid. Kaba SE, et al. **J Neurooncol** 1996 Oct;30(1):55–60

All–trans–retinoic acid: a phase II Radiation Therapy Oncology Group study (RTOG 91–13) in patients with recurrent malignant astrocytoma. Phuphanich S, et al. **J Neurooncol** 1997 Sep;34(2):193–200

Glucocorticoid–induced long–term remission in primary cerebral lymphoma: case report and review of the literature. Pirotte B, et al. **J Neurooncol** 1997 Mar; 32(1):63–9

Treatment of pediatric low–grade gliomas with a nitrosourea–based multiagent chemotherapy regimen. Prados MD, et al. **J Neurooncol** 1997 May;32(3):235–41

Intracarotid recombinant human tumor necrosis factor–alpha reduces cerebral blood flow and methionine uptake in rat brain tumors. Sasajima T, et al. **J Neurooncol** 1997 Sep; 34(2):123–9

Cranial radiation and concomitant cisplatin and mitomycin–C plus resistance modulators for malignant gliomas. Stewart DJ, et al. **J Neurooncol** 1997 Apr;32(2):161–8

Parenchymal damage in the territory of the anterior choroidal artery following supraophthalmic intracarotid administration of CDDP for treatment of malignant gliomas. Tamaki M, et al. **J Neurooncol** 1997 Oct; 35(1):65–72

Procarbazine, lomustine, and vincristine (PCV) chemotherapy for grade III and grade IV oligoastrocytomas. Kim L, et al. **J Neurosurg** 1996 Oct; 85(4):602–7

Carboplatin and vincristine chemotherapy for children with newly diagnosed progressive low–grade gliomas. Packer RJ, et al. **J Neurosurg** 1997 May;86(5):747–54

Salvage chemotherapy for oligodendroglioma. Peterson K, et al. **J Neurosurg** 1996 Oct;85(4):597–601

Photodynamic therapy within edematous brain tissue: considerations on sensitizer dose and time point of laser irradiation. Stummer W, et al. **J Photochem Photobiol B** 1996 Nov;36(2):179–81

Intralesionally implanted cisplatin cures primary brain tumor in rats. Kong Q, et al. **J Surg Oncol** 1997 Apr;64(4):268–73

Antitumor activity of natural–type human tumor necrosis factor on experimental brain tumors in rats. Nakaichi M, et al. **J Vet Med Sci** 1996 Sep;58(9):885–91

Second temporal remission in a malignant glioma with trofosfamide and etoposide: a case report. Wolff JE, et al. **Klin Padiatr** 1996 Jul–Aug;208(4):190–2

Feasibility of sequential high–dose chemotherapy and peripheral blood stem cell support for pediatric central nervous system malignancies. Jakacki RI, et al. **Med Pediatr Oncol** 1997 Dec;29(6):553–9

Phase II study of daily oral etoposide in children with recurrent brain tumors and other solid tumors. Needle MN, et al. **Med Pediatr Oncol** 1997 Jul;29(1):28–32

Viral vector–mediated transduction of a modified platelet factor 4 cDNA inhibits angiogenesis and tumor growth. Tanaka T, et al. **Nat Med** 1997 Apr;3(4):437–42

Antagonism by progesterone of diethylstilbestrol–induced pituitary tumorigenesis in Fischer 344 rats: effects on sex steroid receptors and tyrosine hydroxylase mRNA. Piroli GG, et al. **Neuroendocrinology** 1996 Jun;63(6):530–9

Suppression of tumor growth in experimental 9L gliosarcoma model by copper depletion [letter; comment] Philipov P. **Neurol Med Chir (Tokyo)** 1996 Feb;36(2):115–6. Comment on: Neurol Med Chir (Tokyo) 1995 Mar;35(3):133–5.

Increased delivery of a new cisplatin analogue (254–S) in a rat brain tumor by an intracarotid infusion of bradykinin. Koga H, et al. **Neurol Res** 1996 Jun;18(3):244–7

A randomized, blinded, placebo–controlled trial of divalproex sodium prophylaxis in adults with newly diagnosed brain tumors. Glantz MJ, et al. **Neurology** 1996 Apr;46(4):985–91

Chemotherapy response criteria in malignant glioma. Grant R, et al. **Neurology** 1997 May;48(5):1336–40

Immunotoxin therapy. Hall WA. **Neurosurg Clin N Am** 1996 Jul;7(3):537–46 (28 ref.)

Chemotherapy of cerebral metastases from solid tumors. Lesser GJ. **Neurosurg Clin N Am** 1996 Jul;7(3):527–36 (73 ref.)

Technetium–MIBI as a glioma imaging agent for the assessment of multi–drug resistance. Andrews DW, et al. **Neurosurgery** 1997 Jun;40(6):1323–32; discussion 1333–4

Prediction of drug cytotoxicity in 9L rat brain tumor by using flow cytometry with a deoxyribonucleic acid–binding dye. Iwadate Y, et al. **Neurosurgery** 1997 Apr;40(4):782–7; discussion 787–8

Combination of 6–thioguanine, procarbazine, lomustine, and hydroxyurea for patients with recurrent malignant gliomas. Kyritsis AP, et al. **Neurosurgery** 1996 Nov;39(5):921–6

Efficacy of intralesionally administered cisplatin–impregnated biodegradable polymer for the treatment of 9L gliosarcoma in the rat. Lillehei KO, et al. **Neurosurgery** 1996 Dec;39(6):1191–7; discussion 1197–9

Enhanced tumor uptake of carboplatin and survival in glioma–bearing rats by intracarotid infusion of bradykinin analog, RMP–7. Matsukado K, et al. **Neurosurgery** 1996 Jul;39(1):125–33; discussion 133–4

Effect of stereotactic implantation of biodegradable 5–fluorouracil–loaded microspheres in healthy and C6 glioma–bearing rats. Menei P, et al. **Neurosurgery** 1996 Jul; 39(1):117–23; discussion 123–4

Interstitial chemotherapy with carmustine–loaded polymers for high–grade gliomas: a randomized double–blind study. Valtonen S, et al. **Neurosurgery** 1997 Jul;41(1):44–8; discussion 48–9

Malignant glioma sensitivity to radiotherapy, high–dose tamoxifen, and hypericin: corroborating clinical response in vitro: case report. Zhang W, et al. **Neurosurgery** 1996 Mar;38(3):587–90; discussion 590–1

Profound hearing loss from intravertebral artery cisplatin. Wetmore SJ, et al. **Otolaryngol Head Neck Surg** 1997 Feb; 116(2):234–7

Reversible occlusion shunt for intraventricular chemotherapy in shunt–dependent brain tumor patients. Czech T, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):375–80

Contemporary chemotherapy issues for children with brainstem gliomas. Allen JC, et al. **Pediatr Neurosurg** 1996; 24(2):98–102

A high–dose busulfan–thiotepa combination followed by autologous bone marrow transplantation in childhood recurrent ependymoma. A phase–II study. Grill J, et al. **Pediatr Neurosurg** 1996 Jul;25(1):7–12

Liposome–mediated therapy of intracranial brain tumors in a rat model. Sharma US, et al. **Pharm Res** 1997 Aug; 14(8):992–8

Photodynamic therapy of human glioma (U87) in the nude rat. Chopp M, et al. **Photochem Photobiol** 1996 Oct; 64(4):707–11

Photodynamic therapy of 9L gliosarcoma with liposome–delivered photofrin. Jiang F, et al. **Photochem Photobiol** 1997 Apr;65(4):701–6

Sensitivity of 9L gliosarcomas to photodynamic therapy. Chopp M, et al. **Radiat Res** 1996 Oct;146(4):461–5

Accelerated radiotherapy with carbogen and nicotinamide (ARCON) in high grade malignant gliomas [letter; comment] Lambin P, et al. **Radiother Oncol** 1997 Jun; 43(3):324. Comment on: Radiother Oncol 1996 Sep;40(3):245–7.

Paclitaxel/carboplatin chemotherapy as primary treatment of brain metastases in non–small cell lung cancer: a preliminary report. Lee JS, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 12):S12–52–S12–55

Response to chemotherapy of brain metastases from malignant pleural mesothelioma. Colleoni M, et al. **Tumori** 1996 Sep–Oct;82(5):456–8

[Effect of indomethacin on the intracranial pressure] Bundgaard H, et al. **Ugeskr Laeger** 1997 Jun 30; 159(27):4261–5 (Eng. Abstr.) **(Dan)**

[Evaluation of the treatment of cystic lymphangioma by percutaneous injection of Ethibloc in 20 patients] Martinot V, et al. **Arch Pediatr** 1997 Jan;4(1):8–14 (Eng. Abstr.) **(Fre)**

[Retinoids and glial tumors. A new therapeutic approach? (editorial)] Defer G. **Rev Neurol (Paris)** 1996 Nov; 152(11):653–7 (24 ref.) **(Fre)**

[Endocrinologic after–care of brain tumor patients: initial retrospective analysis of HIT–study documented auxologic and endocrine parameters] Dörr HG, et al. **Klin Padiatr** 1996 Jul–Aug;208(4):197–204 (Eng. Abstr.) **(Ger)**

[HIT–GBM: multicenter study of treatment of children with malignant glioma] Wolff JE, et al. **Klin Padiatr** 1996 Jul–Aug;208(4):193–6 (Eng. Abstr.) **(Ger)**

[Image–guided therapy planning for interventional stereotactic therapy of brain tumors] Leemüller R, et al. **Radiologe** 1996 Sep;36(9):737–43 (Eng. Abstr.) **(Ger)**

[Histopathological and autoradiographical studies of experimental brain tumors after continuous local chemotherapy—acute stage in rat models] Shimura T, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):713–8 (Eng. Abstr.) **(Jpn)**

[Effects of biochemical modulation chemotherapy with CDDP and 5–FU on metastatic brain tumor from lung cancer] Nakagawa H, et al. **No Shinkei Geka** 1997 Mar; 25(3):215–23 (39 ref.) (Eng. Abstr.) **(Jpn)**

[A case of the immediate efficacy of chemotherapy in a female patient with a glioblastoma] Kobiakov GL, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Oct–Dec; (4):39–41 (22 ref.) **(Rus)**

ECONOMICS

Evaluation of magnetic source imaging for presurgical mapping of brain neoplasms: a two–center retrospective technology assessment study. Kucharczyk J, et al. **Acad Radiol** 1996 Apr;3 Suppl 1:S131–4

A cost–effectiveness and cost–utility analysis of radiosurgery vs. resection for single–brain metastases. Mehta M, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):445–54

Cost and outcome analysis. Penar PL. **Neurosurg Clin N Am** 1996 Jul;7(3):547–58 (65 ref.)

ENZYMOLOGY

Increased activity of lysosomal glycohydrolases in glioma tissue and surrounding areas from human brain. Nygren C, et al. **Acta Neurochir (Wien)** 1997;139(2):146–50

Nitric oxide synthase is expressed in experimental malignant glioma and influences tumour blood flow. Whittle IR, et al. **Acta Neurochir (Wien)** 1996;138(7):870–5; discussion 875–6

The expression of Gal beta 1,4GlcNAc alpha 2,6 sialyltransferase and alpha 2,6–linked sialoglycoconjugates in human brain tumors. Kaneko Y, et al. **Acta Neuropathol (Berl)** 1996;91(3):284–92

Differential telomerase expression in human primary intracranial tumors. DeMasters BK, et al. **Am J Clin Pathol** 1997 May;107(5):548–54

Increased expression of telomerase RNA component is associated with increased cell proliferation in human astrocytomas. Sallinen P, et al. **Am J Pathol** 1997 Apr; 150(4):1159–64

Cytochemical demonstration of nitric oxide synthase and 5' nucleotidase in human glioblastoma. Fenoglio C, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2507–11

Differential inhibition of telomerase activity during induction of differentiation in hematopoietic, melanoma, and glioma cells in culture. Cheng AJ, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):438–44

Cytosolic phospholipase A2 is coupled to muscarinic receptors in the human astrocytoma cell line 1321N1: characterization of the transducing mechanism. Bayon Y, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):281–7

DNA interstrand cross–linking and cytotoxicity induced by chloroethylnitrosoureas and cisplatin in human glioma cell lines which vary in cellular concentration of O6–alkylguanine–DNA alkyltransferase. Beith J, et al. **Br J Cancer** 1997;75(4):500–5

The level of MnSOD is directly correlated with grade of brain tumours of neuroepithelial origin. Landriscina M, et al. **Br J Cancer** 1996 Dec;74(12):1877–85

Calmodulin–dependent cyclic nucleotide phosphodiesterase in human cerebral cortex and glioblastoma multiforme. Lal S, et al. **Can J Neurol Sci** 1996 Nov;23(4):245–50

Mechanisms of glioma invasion: role of matrix–metalloproteinases. Uhm JH, et al. **Can J Neurol Sci** 1997 Feb;24(1):3–15 (143 ref.)

The significant role of telomerase activity in human brain tumors. Nakatani K, et al. **Cancer** 1997 Aug 1;80(3):471–6

An inverse correlation between expression of NCAM–A and the matrix–metalloproteinases gelatinase–A and gelatinase–B in human glioma cells in vitro. Maidment SL, et al. **Cancer Lett** 1997 Jun 3;116(1):71–7

Study of the antioxidant enzymes in human brain tumors. Pu PY, et al. **J Neurooncol** 1996 Aug;29(2):121–8

Mycobacterium tuberculosis enhances iNOS mRNA expression and HIV replication in human astrocytoma cells. Persichini T, et al. **Neuroreport** 1997 May 27;8(8):1897–901

Activity of 5–formyl tetrahydrofolate cyclodehydrase and 5,10–methenyl tetrahydrofolate cyclohydrolase in primary brain tumors in children. Tzortzatou–Stathopoulou F, et al. **Pediatr Hematol Oncol** 1996 Nov–Dec;13(6):511–9

EPIDEMIOLOGY

Re: "Exposure to 50–Hz electric field and incidence of leukemia, brain tumors, and other cancers among French electric utility workers" [letter] Badrinath P. **Am J Epidemiol** 1997 Oct 1;146(7):606–7

Familial and personal medical history of cancer and nervous system conditions among adults with glioma and controls. Wrensch M, et al. **Am J Epidemiol** 1997 Apr 1; 145(7):581–93

Occupational risks for the development of brain tumors. Kaplan S, et al. **Am J Ind Med** 1997 Jan;31(1):15–20

Epidemiology of primary malignant brain tumours. Bondy ML, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):251–70 (141 ref.)

Small–area study of the incidence of neoplasms of the brain and central nervous system among adults in the West

Midlands region, 1974–86. Small Area Health Statistics Unit. Eaton N, et al. **Br J Cancer** 1997;75(7):1080–3

Epidemiology of childhood brain tumors. Miltenburg D, et al. **Can J Neurol Sci** 1996 May;23(2):118–22

Will primary central nervous system lymphoma be the most frequent brain tumor diagnosed in the year 2000? Corn BW, et al. **Cancer** 1997 Jun 15;79(12):2409–13

Descriptive epidemiology of cerebral gliomas in France. Fleury A, et al. **Cancer** 1997 Mar 15;79(6):1195–202

Dietary and other lifestyle factors of women with brain gliomas in Los Angeles County (California, USA) [see comments] Blowers L, et al. **Cancer Causes Control** 1997 Jan;8(1):5–12. Comment in: Cancer Causes Control 1997 Jan;8(1):3–4.

What do we know about risk factors for glioma? [editorial; comment] Giles GG. **Cancer Causes Control** 1997 Jan; 8(1):3–4. Comment on: Cancer Causes Control 1997 Jan;8(1):5–12. Comment on: Cancer Causes Control 1997 Jan;8(1):13–24.

Dietary and tobacco risk factors for adult onset glioma in the San Francisco Bay Area (California, USA) [see comments] Lee M, et al. **Cancer Causes Control** 1997 Jan; 8(1):13–24. Comment in: Cancer Causes Control 1997 Jan;8(1):3–4.

Maternal and perinatal risk factors for childhood brain tumors (Sweden). Linet MS, et al. **Cancer Causes Control** 1996 Jul;7(4):437–48

Maternal consumption of cured meats and vitamins in relation to pediatric brain tumors. Preston-Martin S, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):599–605

Allelism at the glutathione S-transferase GSTM3 locus: interactions with GSTM1 and GSTT1 as risk factors for astrocytoma. Hand PA, et al. **Carcinogenesis** 1996 Sep; 17(9):1919–22

The content and efficacy of conventional methods of follow-up in neuro-oncology: the need for new strategies. Steele J, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):168–71

Head injury as a risk factor for brain tumors in children: results from a multicenter case-control study. Gurney JG, et al. **Epidemiology** 1996 Sep;7(5):485–9

Residential exposure to 60-Hertz magnetic fields and adult cancers in Taiwan. Li CY, et al. **Epidemiology** 1997 Jan; 8(1):25–30

Assessment of cellular telephone and other radio frequency exposure for epidemiologic research [see comments] Rothman KJ, et al. **Epidemiology** 1996 May;7(3):291–8 (43 ref.). Comment in: Epidemiology 1996 May;7(3):219. Comment in: Epidemiology 1997 Jul;8(4):466–7.

Incidence of neoplasms in ages 0–19 y in parts of Sweden with high 137Cs fallout after the Chernobyl accident. Tondel M, et al. **Health Phys** 1996 Dec;71(6):947–50

Association of adult glioma with medical conditions, family and reproductive history. Cicuttini FM, et al. **Int J Cancer** 1997 Apr 10;71(2):203–7

Reproductive factors and the risk of brain tumors: a population-based study in Sweden. Lambe M, et al. **Int J Cancer** 1997 Jul 29;72(3):389–93

Trends in incidence of primary malignant brain tumors in USA, 1981–1990. Ahsan H, et al. **Int J Epidemiol** 1995 Dec;24(6):1078–85

Limitations of using a cancer registry to identify incident primary intracranial tumours. Counsell CE, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):94–7

Epidemiological study of primary intracranial tumours in elderly people. Kuratsu J, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):116–8

Statistical and epidemiological treatment of the SEER incidence data [letter; comment] Levy PS, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1280. Comment on: J Neuropathol Exp Neurol 1996 Nov;55(11):1115–23.

Increasing brain tumor rates: is there a link to aspartame? [see comments] Olney JW, et al. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1115–23. Comment in: J Neuropathol Exp Neurol 1996 Dec;55(12):1280. Comment in: J Neuropathol Exp Neurol 1997 Jan;56(1):105–6. Comment in: J Neuropathol Exp Neurol 1997 Jan;56(1):107–9.

Intracranial space occupying lesions--review of 386 cases. Irfan A, et al. **JPMA J Pak Med Assoc** 1995 Dec; 45(12):319–20

Tumors of the brain and CNS in Rhode Island. Fulton JP. **Med Health R I** 1996 Jun;79(6):240–2

Molecular epidemiology study of a suspected community cluster of childhood cancers. Li FP, et al. **Med Pediatr Oncol** 1997 Apr;28(4):243–7

Demographics of brain metastasis. Johnson JD, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):337–44 (89 ref.)

Epidemiological appraisal of studies of residential exposure to power frequency magnetic fields and adult cancers. Li CY, et al. **Occup Environ Med** 1996 Aug;53(8):505–10 (28 ref.)

Glioma and occupational exposure in Sweden, a case-control study. Rodvall Y, et al. **Occup Environ Med** 1996 Aug; 53(8):526–37

Head and neck radiation carcinogenesis: epidemiologic evidence. Ron E, et al. **Otolaryngol Head Neck Surg** 1996 Nov;115(5):403–8 (38 ref.)

A follow-up study of childhood nasopharyngeal radium irradiation in Washington County, Maryland. Yeh HC, et al. **Otolaryngol Head Neck Surg** 1996 Nov;115(5):415–6

[Incidence of glioblastoma multiforme in Aragon and La Rioja. An epidemiological survey] Monzón MJ, et al. **Rev Neurol** 1996 Jan;24(125):73–6 (Eng. Abstr.) **(Spa)**

[Increased incidence of brain tumors. A study of Swedish children and adolescents aged 0–19] Hardell L, et al. **Lakartidningen** 1997 Feb 26;94(9):728–31 **(Swe)**

ETIOLOGY

Exposure to 50-Hz electric field and incidence of leukemia, brain tumors, and other cancers among French electric utility workers. Guénel P, et al. **Am J Epidemiol** 1996 Dec 15;144(12):1107–21

Does prior infection with varicella-zoster virus influence risk of adult glioma? Wrensch M, et al. **Am J Epidemiol** 1997 Apr 1;145(7):594–7

Computer screens and brain cancer. Wood AW. **Australas Phys Eng Sci Med** 1995 Dec;18(4):167–76 (42 ref.)

Brain cancer, flying, and socioeconomic status: a nested case-control study of USAF aircrew. Grayson JK, et al. **Aviat Space Environ Med** 1996 Dec;67(12):1152–4

Prenatal exposure to tobacco smoke and childhood brain tumors: results from the United States West Coast childhood brain tumor study. Norman MA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):127–33

Childhood brain tumors and exposure to tobacco smoke. Norman MA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):85–91 (52 ref.)

Enteropathy associated T cell lymphoma presenting as an isolated CNS lymphoma three years after diagnosis of coeliac disease: T cell receptor polymerase chain reaction studies failed to show the original enteropathy to be a clonal disorder. Tutt AN, et al. **Gut** 1997 Jun;40(6):801–3

Post-traumatic malignant glioma. Report of a case. Di Trapani G, et al. **Ital J Neurol Sci** 1996 Aug;17(4):283–6

Tobacco smoking and alcohol consumption as risk factors for glioma: a case-control study in Melbourne, Australia. Hurley SF, et al. **J Epidemiol Community Health** 1996 Aug; 50(4):442–6

A malignant astrocytoma in a patient with AIDS: a possible association between astrocytomas and HIV infection. Neal JW, et al. **J Infect** 1996 Nov;33(3):159–62 (24 ref.)

Multiple neoplasms following craniospinal irradiation for medulloblastoma in a patient with nevoid basal cell carcinoma syndrome. Case report. O'Malley S, et al. **J Neurosurg** 1997 Feb;86(2):286–8

Occupational electric and magnetic field exposure and brain cancer [letter; comment] Raabe GK, et al. **J Occup Environ Med** 1996 Jul;38(7):655–8. Comment on: J Occup Environ Med 1995 Dec;37(12):1327–41.

A patient-specific in vivo tumor model. Wasserman R, et al. **Math Biosci** 1996 Sep;136(2):111–40 (47 ref.)

Primary intracerebral malignant fibrous histiocytoma: immunohistochemical findings and etiopathogenetic considerations. Martinez-Salazar A, et al. **Mod Pathol** 1997 Feb;10(2):149–54 (42 ref.)

Head and neck radiation carcinogenesis: epidemiologic evidence. Ron E, et al. **Otolaryngol Head Neck Surg** 1996 Nov;115(5):403–8 (38 ref.)

Primary central nervous system lymphoma following transfer of human peripheral blood lymphocytes into SCID mice. Lavi E, et al. **Pathobiology** 1995;63(4):188–91

Intracranial tumors after radium treatment for skin hemangioma during infancy--a cohort and case-control study. Karlsson P, et al. **Radiat Res** 1997 Aug;148(2):161–7

Probable risk of tumor induction after retro-orbital irradiation for Graves' ophthalmopathy [letter; comment] Blank LE, et al. **Radiother Oncol** 1996 Aug;40(2):187–9. Comment on: Radiother Oncol 1996 Jan;38(1):69–71.

Dosimetric and cytogenetic studies of multiple radiation-induced meningiomas for a single patient. Chauveinc L, et al. **Radiother Oncol** 1997 Jun;43(3):285–8

Primary brain cancer in adults and the use of common household appliances: a case-control study. Mutnick A, et al. **Rev Environ Health** 1997 Jan-Mar;12(1):59–62

Brain tumor risk in offspring of men occupationally exposed to electric and magnetic fields. Wilkins JR 3rd, et al. **Scand J Work Environ Health** 1996 Oct;22(5):339–45

[Neurofibromatosis with abdominal and severe central nervous system complications] Nagy K, et al. **Orv Hetil** 1996 Nov 3;137(44):2465–8 (Eng. Abstr.) **(Hun)**

[A case of pineal teratoma arising from hydrocephalus of unknown cause] Noshita N, et al. **No Shinkei Geka** 1997 Jun;25(6):549–53 (Eng. Abstr.) **(Jpn)**

[A case of malignant lymphoma after renal transplantation] Oyama H, et al. **No Shinkei Geka** 1997 Jul;25(7):655–60 (Eng. Abstr.) **(Jpn)**

GENETICS

Glioma cells transduced with selection transgenes may not form gliomas in vivo and can also inhibit glioma formation by admixed wild glioma cell lines. Whittle IR, et al. **Acta Neurochir Suppl (Wien)** 1997;68:139–43

Cytogenetic analysis of gliomas by in situ hybridization of stereotactic biopsy material. Lippitz BE, et al. **Acta Neurochir (Wien)** 1997;139(1):22–5

Immunohistochemical analysis of the nm23 gene product (NDP kinase) expression in astrocytic neoplasms. Nawashiro H, et al. **Acta Neurochir (Wien)** 1996; 138(4):445–50

Molecular pathogenesis of astrocytoma and glioblastoma multiforme. Van de Kelft E. **Acta Neurochir (Wien)** 1997; 139(7):589–99 (87 ref.)

Familial and personal medical history of cancer and nervous system conditions among adults with glioma and controls. Wrensch M, et al. **Am J Epidemiol** 1997 Apr 1; 145(7):581–93

Increased expression of telomerase RNA component is associated with increased cell proliferation in human astrocytomas. Sallinen P, et al. **Am J Pathol** 1997 Apr; 150(4):1159–64

Evidence for clonal origin of neoplastic neuronal and glial cells in gangliogliomas. Zhu JJ, et al. **Am J Pathol** 1997 Aug;151(2):565–71

Expression of vascular endothelial growth factor and its receptors in pilocytic astrocytoma. Leung SY, et al. **Am J Surg Pathol** 1997 Aug;21(8):941–50

Genetic alterations in astrocytic tumors: hints to a molecular epidemiological interpretation. Fronza G, et al. **Ann Ist Super Sanita** 1996;32(1):159–66 (53 ref.)

Loss of tuberin from cerebral tissues with tuberous sclerosis and astrocytoma [see comments] Mizuguchi M, et al. **Ann Neurol** 1996 Dec;40(6):941–4. Comment in: Ann Neurol 1997 Aug;42(2):270–2.

Reduced TSC2 RNA and protein in sporadic astrocytomas and ependymomas. Wienecke R, et al. **Ann Neurol** 1997 Aug;42(2):230–5

Transformation of human glioma cell lines with the p16 gene inhibits cell proliferation. Hama S, et al. **Anticancer Res** 1997 May-Jun;17(3C):1933–8

Comparative amplification analysis of human glioma tissue and glioma derived fragment spheroids using reverse chromosome painting (RCP). Janka M, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2601–6

Localization of aberrant messenger RNA of epidermal growth factor receptor (EGFR) in malignant glioma. Tsugu A, et al. **Anticancer Res** 1997 May-Jun; 17(3C):2225–32

Molecular genetics and tumour suppressor genes in gliomas. Kyritsis AP, et al. **Baillieres Clin Neurol** 1996 Jun; 5(2):295–305 (78 ref.)

Infrequent methylation of CDKN2A(MTS1/p16) and rare mutation of both CDKN2A and CDKN2B(MTS2/p15) in primary astrocytic tumours. Schmidt EE, et al. **Br J Cancer** 1997;75(1):2–8

The molecular biology of ependymomas. Hamilton RL, et al. **Brain Pathol** 1997 Apr;7(2):807–22 (177 ref.)

Recent advances in the molecular characterization of childhood brain tumors [editorial] Pollack IF, et al. **Brain Pathol** 1997 Apr;7(2):753–4

March 1997--4 year old girl with ring chromosome 22 and brain tumor. Rubio A. **Brain Pathol** 1997 Jul;7(3):1027–8

Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al. **Brain Pathol** 1996 Jul;6(3):217–23; discussion 23–4

Extensive splice variation and localization of the EHK-1 receptor tyrosine kinase in adult human brain and glial tumors. Miescher GC, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):17–24

Molecular cloning of a new unc-33-like cDNA from rat brain and its relation to paraneoplastic neurological syndromes. Quach TT, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):329–32

Ras oncogene mutations in childhood brain tumors. Maltzman TH, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr;6(4):239–43

Cytogenetic analysis of 120 primary pediatric brain tumors and literature review. Bhattacharjee MB, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):39–53 (54 ref.)

Chromosomal characteristics of childhood brain tumors. Bigner SH, et al. **Cancer Genet Cytogenet** 1997 Sep; 97(2):125–34

Chromosome arm 17p deletion analysis reveals molecular genetic heterogeneity in supratentorial and infratentorial primitive neuroectodermal tumors of the central nervous system. Burnett ME, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):25–31

Chromosome analyses in a rhabdoid tumor of the brain. Klopfenstein K, et al. **Cancer Genet Cytogenet** 1997 Feb; 93(2):152–6

Telomere associations in desmoplastic infantile ganglioglioma. Park JP, et al. **Cancer Genet Cytogenet** 1996 Nov;92(1):4–7

Three mutant genes cooperatively induce brain tumor formation in Drosophila malignant brain tumor. Riede I. **Cancer Genet Cytogenet** 1996 Sep;90(2):135–41

Cytogenetics of pediatric central nervous system tumors. Sainati L, et al. **Cancer Genet Cytogenet** 1996 Oct 1; 91(1):13–27

Translocation 1;19 in two brain tumors. Vagner-Capodano AM, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):1–4

Loss of heterozygosity on chromosome 22 in human gliomas does not inactivate the neurofibromatosis type 2 gene. Watkins D, et al. **Cancer Genet Cytogenet** 1996 Nov; 92(1):73–8

Molecular and cellular pathology of intrinsic brain tumours. Merzak A, et al. **Cancer Metastasis Rev** 1997 Jun; 16(1-2):155–77 (255 ref.)

Id genes encoding inhibitors of transcription are expressed during in vitro astrocyte differentiation and in cell lines derived from astrocytic tumors. Andres-Barquin PJ, et al. **Cancer Res** 1997 Jan 15;57(2):215–20

Cyclin-dependent kinase 6 (CDK6) amplification in human gliomas identified using two-dimensional separation of

genomic DNA. Costello JF, et al. **Cancer Res** 1997 Apr 1;57(7):1250–4

The putative tumor suppressor gene FHIT at 3p14.2 is rarely affected by loss of heterozygosity in primary human brain tumors. Frank S, et al. **Cancer Res** 1997 Jul 1; 57(13):2638–41

Somatic mutations of the von Hippel–Lindau tumor suppressor gene and loss of heterozygosity on chromosome 3p in human glial tumors. Kanno H, et al. **Cancer Res** 1997 Mar 15;57(6):1035–8

Expression of oligodendrocytic mRNAs in glial tumors: changes associated with tumor grade and extent of neoplastic infiltration. Landry CF, et al. **Cancer Res** 1997 Sep 15;57(18):4098–104

Loss of p53 is an early event in induction of brain tumors in mice by transplacental carcinogen exposure. Oda H, et al. **Cancer Res** 1997 Feb 15;57(4):646–50

The relationship between TP53 mutations and overexpression of p53 and prognosis in malignant gliomas of childhood. Pollack IF, et al. **Cancer Res** 1997 Jan 15;57(2):304–9

Refined mapping of 12q13–q15 amplicons in human malignant gliomas suggests CDK4/SAS and MDM2 as independent amplification targets. Reifenberger G, et al. **Cancer Res** 1996 Nov 15;56(22):5141–5

Expression of neurogenic basic helix–loop–helix genes in primitive neuroectodermal tumors. Rostomily RC, et al. **Cancer Res** 1997 Aug 15;57(16):3526–31

IGF2 but not H19 shows loss of imprinting in human glioma. Uyeno S, et al. **Cancer Res** 1996 Dec 1;56(23):5356–9

Mutations in the human homologue of the Drosophila segment polarity gene patched (PTCH) in sporadic basal cell carcinomas of the skin and primitive neuroectodermal tumors of the central nervous system. Wolter M, et al. **Cancer Res** 1997 Jul 1;57(13):2581–5

Allelism at the glutathione S-transferase GSTM3 locus: interactions with GSTM1 and GSTT1 as risk factors for astrocytoma. Hand PA, et al. **Carcinogenesis** 1996 Sep; 17(9):1919–22

Population-based study of glutathione S-transferase mu gene deletion in adult glioma cases and controls. Wiencke JK, et al. **Carcinogenesis** 1997 Jul;18(7):1431–3

Neocortical ectopias in BXSB mice: effects upon reference and working memory systems. Boehm GW, et al. **Cereb Cortex** 1996 Sep–Oct;6(5):696–700

Mdr1 mRNA expression differs between grade III astrocytomas and glioblastomas. Kirches E, et al. **Clin Neuropathol** 1997 Jan–Feb;16(1):34–6

Chromosome 17 allelic loss in astrocytic tumors and its clinico-pathologic implications. Muhammad AK, et al. **Clin Neuropathol** 1997 Jul–Aug;16(4):220–6

A study of apoptosis in brain tumors by in situ end-labeling method. Patsouris E, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):337–41

Molecular genetics and molecular biology advances in brain tumors. James CD, et al. **Curr Opin Oncol** 1996 May; 8(3):188–95 (64 ref.)

Correlative immunohistochemistry and molecular genetic study of the inactivation of the p16INK4A genes in astrocytomas. Rao LS, et al. **Diagn Mol Pathol** 1997 Apr; 6(2):115–22

Demonstration of p53 protein and TP53 gene mutations in oligodendrogliomas. Hagel C, et al. **Eur J Cancer** 1996 Dec; 32A(13):2242–8

Characterisation of X;17(q12;p13) translocation breakpoints in a female patient with hypomelanosis of Ito and choroid plexus papilloma. Zajac V, et al. **Eur J Hum Genet** 1997 Mar–Apr;5(2):61–8

Quantitative DNA analysis of an intracerebrally transplanted brain tumour model after experimental chemotherapy with BCNU and CCNU. Schlegel J, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):313–8

Characterization of a tumor-associated gene, a member of a novel family of genes encoding membrane glycoproteins. Ben-Porath I, et al. **Gene** 1996 Dec 12;183(1–2):69–75

Microsatellite analysis of childhood brain tumors. Blaeker H, et al. **Genes Chromosomes Cancer** 1996 Jan;15(1):54–63

High-resolution deletion mapping of chromosome arm 17p in childhood primitive neuroectodermal tumors reveals a common chromosomal disruption within the Smith–Magenis region, an unstable region in chromosome band 17p11.2. Scheurlen WG, et al. **Genes Chromosomes Cancer** 1997 Jan;18(1):50–8

Molecular genetic analysis of chromosome arm 17p and chromosome arm 22q DNA sequences in sporadic pediatric ependymomas. von Haken MS, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):37–44

Numerical aberrations of chromosomes 1, 2, and 7 in astrocytomas studied by interphase cytogenetics. Wernicke C, et al. **Genes Chromosomes Cancer** 1997 May;19(1):6–13

Refined localization of the cerebral cavernous malformation gene (CCM1) to a 4-cM interval of chromosome 7q contained in a well-defined YAC contig. Johnson EW, et al. **Genome Res** 1995 Nov;5(4):368–80

Construction of a 5-Mb YAC contig from the putative 10q25 tumor-suppressor region for glioblastomas. Albarosa R, et al. **Genomics** 1997 May 1;41(3):345–9

Pathology, genetics and cell biology of hemangioblastomas. Wizigmann-Voos S, et al. **Histol Histopathol** 1996 Oct; 11(4):1049–61 (111 ref.)

Twelve amplified and expressed genes localized in a single domain in glioma. Fischer U, et al. **Hum Genet** 1996 Nov; 98(5):625–8

Alterations in brain tumor DNA detected by a fingerprinting probe. Joshi AR, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):455–7

Lack of phospholipase A2 mutations in neuroblastoma, melanoma and colon-cancer cell lines. Haluska FG, et al. **Int J Cancer** 1997 Jul 17;72(2):337–9

Isolation and characterization of a novel gene from human glioblastoma multiforme tumor tissue. Sehgal A, et al. **Int J Cancer** 1997 May 16;71(4):565–72

Mutation analysis and loss of heterozygosity of PEDF in central nervous system primitive neuroectodermal tumors. Slavc I, et al. **Int J Cancer** 1997 Jul 17;72(2):277–82

Familial cavernous hemangioma with atypical neuroimaging. Passarin MG, et al. **Ital J Neurol Sci** 1996 Aug; 17(4):295–300

Brain tumor–polyposis syndrome: two genetic diseases? Paraf F, et al. **J Clin Oncol** 1997 Jul;15(7):2744–58 (128 ref.)

Loss of heterozygosity on chromosome 10, 13q(Rb), 17p, and p53 gene mutations in human brain gliomas. Lee SH, et al. **J Korean Med Sci** 1995 Dec;10(6):442–8

p53 protein in pediatric malignant astrocytomas: a study of 21 patients. Bhattacharjee MB, et al. **J Neurooncol** 1997 May;32(3):225–33

Induction of differentiation by wild-type p53 gene in a human glioma cell line. Kokunai T, et al. **J Neurooncol** 1997 Apr; 32(2):125–33

Loss of heterozygosity of microsatellite loci on chromosome 9p in astrocytic tumors and its prognostic implications. Maruno M, et al. **J Neurooncol** 1996 Oct;30(1):19–24

Genomic alterations in human glioma cell lines detected by restriction landmark genomic scanning. Nakamura M, et al. **J Neurooncol** 1997 Sep;34(3):203–9

Molecular biology of pediatric gliomas. Raffel C. **J Neurooncol** 1996 May–Jun;28(2–3):121–8 (92 ref.)

Mitoxantrone-induced DNA strand breaks in cell-cultures of malignant human astrocytoma and glioblastoma tumors. Senkal M, et al. **J Neurooncol** 1997 May;32(3):203–8

DNA ploidy and S-phase in recurrent astrocytomas: a retrospective study by flow cytometry of deparaffinized specimens. Vavruch L, et al. **J Neurooncol** 1996 Oct; 30(1):37–45

Amplification and overexpression of MDM2 in primary (de novo) glioblastomas. Biernat W, et al. **J Neuropathol Exp Neurol** 1997 Feb;56(2):180–5

Malignant astrocytomas with homozygous CDKN2/p16 gene deletions have higher Ki-67 proliferation indices. Ono Y, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1026–31

Detection of p16 gene deletions in gliomas: a comparison of fluorescence in situ hybridization (FISH) versus quantitative PCR. Perry A, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):999–1008

A novel splice site associated polymorphism in the tuberous sclerosis 2 (TSC2) gene may predispose to the development of sporadic gangliogliomas. Platten M, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):806–10

Analysis of p53 mutation and epidermal growth factor receptor amplification in recurrent gliomas with malignant progression. Reifenberger J, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):822–31

Determination of p53 mutations, EGFR overexpression, and loss of p16 expression in pediatric glioblastomas. Sure U, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):782–9

Transfection of IFNalpha in human glioblastoma cells and tumorigenicity in association with induction of PKR and OAS gene expression. He J, et al. **J Neurosurg** 1996 Dec; 85(6):1085–90

Regulated expression of the diphtheria toxin A gene in human glioma cells using prokaryotic transcriptional control elements. Paulus W, et al. **J Neurosurg** 1997 Jul;87(1):89–95

Viruses and oncogenes in brain tumors. Archer GE, et al. **J Neurovirol** 1997 May;3 Suppl 1:S76–7 (7 ref.)

Cloning, sequence, and developmental expression analysis of C4-2, a potential brain tumor-suppressor gene. Sehgal A, et al. **J Surg Oncol** 1997 Aug;65(4):249–57

Characterization of C4-2 as a tumor-suppressor gene in human brain tumors. Sehgal A, et al. **J Surg Oncol** 1997 Feb;64(2):102–8

A comparative study of glioma cell lines for p16, p15, p53 and p21 gene alterations. Zhang S, et al. **Jpn J Cancer Res** 1996 Sep;87(9):900–7

The familial occurrence of brain tumors. Chang DS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):268–71

Unusual chromosome abnormalities in primary central nervous system lymphoma. Zattara-Cannoni H, et al. **Leuk Lymphoma** 1996 May;21(5–6):515–7

Comparative analyses of relative ERCC3 and ERCC6 mRNA levels in gliomas and adjacent non-neoplastic brain. Dabholkar MD, et al. **Mol Carcinog** 1996 Sep;17(1):1–7

A deletion polymorphism due to Alu-Alu recombination in intron 2 of the retinoblastoma gene: association with human gliomas. Rothberg PG, et al. **Mol Carcinog** 1997 Jun; 19(2):69–73

Reappraisal of p53 mutations in human malignant astrocytic neoplasms by p53 functional assay: comparison with conventional structural analyses. Tada M, et al. **Mol Carcinog** 1997 Mar;18(3):171–6

DMBT1, a new member of the SRCR superfamily, on chromosome 10q25.3–26.1 is deleted in malignant brain tumours. Mollenhauer J, et al. **Nat Genet** 1997 Sep; 17(1):32–9

Chromosome 22q allelic losses at microsatellite loci in human astrocytic tumors. Muhammad AK, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):606–10; discussion 611

Infrequent mutation of Waf1/p21 gene, a CDK inhibitor gene, in brain tumors. Tsumanuma I, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):150–6; discussion 156–7

Expression of N-ras gene in gliomas. Tsurushima H, et al. **Neurol Med Chir (Tokyo)** 1996 Oct;36(10):704–8

Linkage of the locus for cerebral cavernous hemangiomas to human chromosome 7q in four families of Mexican-American descent. Polymeropoulos MH, et al. **Neurology** 1997 Mar;48(3):752–7

Molecular analysis of the lissencephaly gene 1 (LIS-1) in medulloblastomas. Koch A, et al. **Neuropathol Appl Neurobiol** 1996 Jun;22(3):233–42

Expression of the tumor over-expressed ch-TOG gene in human and baboon brain. Charrasse S, et al. **Neurosci Lett** 1996 Jul 12;212(2):119–22

Homozygous p53 gene mutation in a radiation-induced glioblastoma 10 years after treatment for an intracranial germ cell tumor: case report. Tada M, et al. **Neurosurgery** 1997 Feb;40(2):393–6

Analysis of p53 gene mutations in human glioma cell lines. Koga H, et al. **Noshuyo Byori** 1996 Apr;13(1):1–10

Loss of heterozygosity of a locus on 17p13.3, independent of p53, is associated with higher grades of astrocytic tumours. Chattopadhyay P, et al. **Oncogene** 1997 Aug 14; 15(7):871–4

Hypermethylation of the CpG island of p16/CDKN2 correlates with gene inactivation in gliomas. Fueyo J, et al. **Oncogene** 1996 Oct 17;13(8):1615–9

New deletion in low-grade oligodendroglioma at the glioblastoma suppressor locus on chromosome 10q25-26. Maier D, et al. **Oncogene** 1997 Aug 18;15(8):997–1000

Somatic mutations in the human homologue of Drosophila patched in primitive neuroectodermal tumours. Vorechovský I, et al. **Oncogene** 1997 Jul 17;15(3):361–6

Study of the DNA content by flow cytometry and proliferation in 281 brain tumors. García R, et al. **Oncology** 1997 Mar–Apr;54(2):112–7

Correlation of histology, cytogenetics and proliferation fraction (Ki-67 and PCNA) quantitated by image analysis in meningiomas. Striepecke E, et al. **Pathol Res Pract** 1996 Aug;192(8):816–24

Expression of platelet-derived growth factor transcripts in medulloblastomas and ependymomas. Black P, et al. **Pediatr Neurosurg** 1996;24(2):74–8

Molecular biology of malignant degeneration of astrocytoma. Furnari FB, et al. **Pediatr Neurosurg** 1996;24(1):41–9 (109 ref.)

Intracranial malignant germ cell tumor and the Klinefelter syndrome. Case report and review of the literature. Prall JA, et al. **Pediatr Neurosurg** 1995;23(4):219–24 (33 ref.)

De novo familial cavernous malformation presenting with hemorrhage 12.5 years after the initial hemorrhagic Ictus: natural history of an infantile form. Tekkök IH, et al. **Pediatr Neurosurg** 1996 Sep;25(3):151–5 (16 ref.)

Pediatric brain tumors express multiple receptor tyrosine kinases including novel cell adhesion kinases. Weiner HL, et al. **Pediatr Neurosurg** 1996 Aug;25(2):64–71; discussion 71–2

Ependymomas in children express the multidrug resistance gene: immunohistochemical and molecular biologic study. Chou PM, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug; 16(4):551–61

Dosimetric and cytogenetic studies of multiple radiation-induced meningiomas for a single patient. Chauveinc L, et al. **Radiother Oncol** 1997 Jun;43(3):285–8

Detection of DNA damage in transcriptionally active genes by RT-PCR and assessment of repair of cisplatin-induced damage in the glutathione S-transferase-pi gene in human glioblastoma cells. Brandt TY, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):22–9

[Analysis of telomere restriction fragments in human astrocytomas and glioblastomas] Liu J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):588–90 (Eng. Abstr.) **(Chi)**

[Familial cerebral cavernous angiomatosis] Mouly S, et al. **Rev Neurol (Paris)** 1996 Dec;152(12):752–4 (Eng. Abstr.) **(Fre)**

[Familial occurrence of intracerebral cavernous angioma: report of cases in brothers] Yamamura K, et al. **No Shinkei Geka** 1995 Dec;23(12):1105–9 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Familial multiple cavernous angioma in the brain and spinal cord] Kimura T, et al. **No To Shinkei** 1996 Oct;48(10):955–9 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Genetic alterations of gliomas] Tabuchi K, et al. **No To Shinkei** 1997 Mar;49(3):205–13 (36 ref.) **(Jpn)**

[Molecular mechanisms of astrocytoma tumorigenesis–link between genotypic abnormalities and phenotypic abnormalities] Tada M, et al. **No To Shinkei** 1997 Mar; 49(3):228–38 (130 ref.) **(Jpn)**

[Application of high resolution FISH to genome analysis and cancer genetics] Inazawa J, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2182–90 (21 ref.) **(Jpn)**

[Neurologic diseases due to alterations in oncogenes and tumor suppressing genes] Bello MJ, et al. **Neurologia** 1995 Dec;10 Suppl 1:20–31 (110 ref.) (Eng. Abstr.) **(Spa)**

[Gene therapy in neurology. State of the art and future

prospects] Duarte RG. **Neurologia** 1995 Dec;10 Suppl 1:56–61 (14 ref.) (Eng. Abstr.) **(Spa)**
[Familial multiple cavernomatosis] Terriza F, et al. **Rev Neurol** 1997 Apr;25(140):560–2 (Eng. Abstr.) **(Spa)**

HISTORY

The role of brain tumors in the establishment of modern neurosurgery. Greenblatt SH. **Med Health R I** 1996 Jun; 79(6):207–9
Early approaches to brain tumors. Schiller F. **Neurosurgery** 1996 May;38(5):1023–30
[Was Emmanuel Kant's dementia symptomatic of a frontal tumor?] Marchand JC. **Rev Neurol (Paris)** 1997 Feb; 155(1):35–9 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Expression and distribution of vascular endothelial growth factor protein in human brain tumors. Pietsch T, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):109–17
MR of carcinoma-specific monoclonal antibody conjugated to monocrystalline iron oxide nanoparticles: the potential for noninvasive diagnosis. Remsen LG, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):411–8
Molecular detection of tumor-associated antigens shared by human cutaneous melanomas and gliomas. Chi DD, et al. **Am J Pathol** 1997 Jun;150(6):2143–52
Immunoprotective activity of the galactoside-specific lectin from mistletoe after tumor destructive therapy in glioma patients. Lenartz D, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3799–802
Phenotypic and functional analysis of Fas (CD95) expression in primary central nervous system lymphoma of patients with acquired immunodeficiency syndrome. Baiocchi RA, et al. **Blood** 1997 Sep 1;90(5):1737–46
Fas ligand expression in glioblastoma cell lines and primary astrocytic brain tumors. Gratas C, et al. **Brain Pathol** 1997 Jul;7(3):863–9
Prognostic analysis of astrocytic gliomas correlating histological parameters with the proliferating cell nuclear antigen labelling index (PCNA-LI). Cruz-Sánchez FF, et al. **Histol Histopathol** 1997 Jan;12(1):43–9
Fas ligand expression by astrocytoma in vivo: maintaining immune privilege in the brain? Saas P, et al. **J Clin Invest** 1997 Mar 15;99(6):1173–8
Growth of P511 mastocytoma cells in BALB/c mouse brain elicits CTL response without tumor elimination: a new tumor model for regional central nervous system immunity. Gordon LB, et al. **J Immunol** 1997 Sep 1;159(5):2399–408
Systemic and local paracrine cytokine therapies using transduced tumor cells are synergistic in treating intracranial tumors. Thompson RC, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):405–13
Ex vivo expansion of tumor-draining lymph node cells using compounds which activate intracellular signal transduction. I. Characterization and in vivo anti-tumor activity of glioma-sensitized lymphocytes. Baldwin NG, et al. **J Neurooncol** 1997 Mar;32(1):19–28
Ex vivo expansion of tumor-draining lymph node cells using compounds which activate intracellular signal transduction. II. Cytokine production and in vivo efficacy of glioma-sensitized lymphocytes. Rice CD, et al. **J Neurooncol** 1997 Mar;32(1):29–38
Induction of specific cytotoxic T lymphocytes against autologous brain tumor by crossreactive allo-tumor cell stimulation. Saitoh S, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):289–95
Detection of MAGE-1 tumor antigen in brain tumor. Kuramoto T. **Kurume Med J** 1997;44(1):43–51
Induction of acquired immunity in rats that have eliminated intracranial gliosarcoma cells by the expression of herpes simplex virus-thymidine kinase gene and ganciclovir administration. Iwadate Y, et al. **Oncology** 1997 Jul–Aug; 54(4):329–34
Comparative evaluation of p53-protein expression and the PCNA and Ki-67 proliferating cell indices in human astrocytomas. Kordek R, et al. **Pathol Res Pract** 1996 Mar; 192(3):205–9
Subcutaneous vaccination with irradiated, cytokine-producing tumor cells stimulates CD8+ cell-mediated immunity against tumors located in the "immunologically privileged" central nervous system. Sampson JH, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10399–404
Proliferating cell nuclear antigen (PCNA) in cerebral cavernomas: an immunocytochemical study of 42 cases. Notelet L, et al. **Surg Neurol** 1997 Apr;47(4):364–70
[Glioma and intracerebral immunity] Shimizu K. **No To Shinkei** 1997 Mar;49(3):239–50 (104 ref.) **(Jpn)**
[Soluble class HLA antigens in serum of patients with brain tumors] Turowski G, et al. **Pol Merkuriusz Lek** 1996 Dec; 1(6):410–1 (Eng. Abstr.) **(Pol)**
[Immunohistochemistry characterization of neurocytoma of the cerebral hemispheres] Korshunov AG, et al. **Arkh Patol** 1997 Jan–Feb;59(1):51–7 (Eng. Abstr.) **(Rus)**

METABOLISM

The presence of foetal ganglioside antigens 3'-isoLM1 and 3'6'-isoLD1 in both glioma tissue and surrounding areas from human brain. von Holst H, et al. **Acta Neurochir (Wien)** 1997;139(2):141–5
Different release of cytokines into the cerebrospinal fluid following surgery for intra- and extra-axial brain tumours. Woiciechowsky C, et al. **Acta Neurochir (Wien)** 1997; 139(7):619–24
Differential expression of tenascin-C and tenascin-X in human astrocytomas. Hasegawa K, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):431–7
Expression of neurofibromatosis 2 protein in human brain tumors: an immunohistochemical study. Hitotsumatsu T, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):225–32
Monocyte chemoattractant protein-1 expression and macrophage infiltration in gliomas. Leung SY, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):518–27
Cystatin C and transthyretin expression in normal and neoplastic tissues of the human brain and pituitary. Lignelid H, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):494–500
Lymphocyte adhesion molecule ligands and extracellular matrix proteins in gliomas and normal brain: expression of VCAM-1 in gliomas. Mäenpää A, et al. **Acta Neuropathol (Berl)** 1997 Sep;94(3):216–25
Accumulation of wild-type p53 in astrocytomas is associated with increased p21 expression. Ono Y, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):21–7
Expression and distribution of vascular endothelial growth factor protein in human brain tumors. Pietsch T, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):109–17
Amplification of the cyclin-dependent kinase 4 (CDK4) gene is associated with high cdk4 protein levels in glioblastoma multiforme. Rollbrocker B, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):70–4
Preferential expression of Fas/APO1 (CD95) and apoptotic cell death in perinecrotic cells of glioblastoma multiforme. Tachibana O, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):431–4
Neurotrophin and neurotrophin receptor proteins in medulloblastomas and other primitive neuroectodermal tumors of the pediatric central nervous system. Washiyama K, et al. **Am J Pathol** 1996 Mar;148(3):929–40
Loss of tuberin from cerebral tissues with tuberous sclerosis and astrocytoma [see comments] Mizuguchi M, et al. **Ann Neurol** 1996 Dec;40(6):941–4. Comment in: Ann Neurol 1997 Aug;42(2):270–2.
Gliomas are driven by glycolysis: putative roles of hexokinase, oxidative phosphorylation and mitochondrial ultrastructure. Oudard S, et al. **Anticancer Res** 1997 May–Jun;17(3C):1903–11
In vivo 1H MRS and in vitro multinuclear MR study of human brain tumors. Tugnoli V, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2891–9
Gliosarcoma. A study of 13 tumors, including p53 and CD34 immunohistochemistry. Sreenan JJ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):129–33
Concentration of rare earth elements, As, and Th in human brain and brain tumors, determined by neutron activation analysis. Zhuang G, et al. **Biol Trace Elem Res** 1996 Summer;53(1–3):45–9
An enhanced and sensitive autocrine stimulation by transforming growth factor-alpha is acquired in the brain metastatic variant of a human non-small-cell lung cancer cell line. Fang K. **Br J Cancer** 1996 Dec;74(11):1776–82
MDM2 and p53 expression in gliomas: a multivariate survival analysis including proliferation markers and epidermal growth factor receptor. Korkolopoulou P, et al. **Br J Cancer** 1997;75(9):1269–78
Incorporation of iododeoxyuridine in multicellular glioma spheroids: implications for DNA-targeted radiotherapy using Auger electron emitters. Neshasteh-Riz A, et al. **Br J Cancer** 1997;75(4):493–9
Histamine-stimulated expression of insulin-like growth factors in human glioma cells. Van der Ven LT, et al. **Br J Cancer** 1997;75(8):1091–7
Tamoxifen metabolic patterns within a glioma patient population treated with high-dose tamoxifen. Ducharme J, et al. **Br J Clin Pharmacol** 1997 Feb;43(2):189–93
Modulation by calcineurin of 5-HT3 receptor function in NG108-15 neuroblastoma x glioma cells. Boddeke HW, et al. **Br J Pharmacol** 1996 Aug;118(7):1836–40
delta- and mu-opioid receptor mobilization of intracellular calcium in SH-SY5Y human neuroblastoma cells. Connor M, et al. **Br J Pharmacol** 1996 Jan;117(2):333–40
Neuropeptide Y Y2 receptor and somatostatin sst2 receptor coupling to mobilization of intracellular calcium in SH-SY5Y human neuroblastoma cells. Connor M, et al. **Br J Pharmacol** 1997 Feb;120(3):455–63
Characterization of Ca(2+)-activated 86Rb+ fluxes in rat C6 glioma cells: a system for identifying novel IKCa-channel toxins. de-Allie FA, et al. **Br J Pharmacol** 1996 Feb;117(3):479–487
Somatostatin receptors in Neuro2A neuroblastoma cells: operational characteristics. Koenig JA, et al. **Br J Pharmacol** 1997 Jan;120(1):45–51
Somatostatin receptors in Neuro2A neuroblastoma cells: ligand internalization. Koenig JA, et al. **Br J Pharmacol** 1997 Jan;120(1):52–9
Intercellular adhesion molecule-1 (ICAM-1) upregulation in human brain tumors as an expression of increased blood-brain barrier permeability. Lossinsky AS, et al. **Brain Pathol** 1995 Oct;5(4):339–44
Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al. **Brain Pathol** 1996 Jul;6(3):217–23; discussion 23–4
Opioids potentiate transmitter release from SK-N-SH human neuroblastoma cells by modulating N-type calcium channels. Keren O, et al. **Brain Res** 1997 Aug 1; 764(1–2):277–82
The expression of a novel Ca2+/CaM stimulated adenylyl cyclase activity in the neuroblastoma cell line Lan-1 is regulated by cell density. Kluxen FW, et al. **Brain Res** 1996 Nov 18;740(1–2):169–74
Modulated induction of tau proteins in cultured human neuroblastoma cells. Ko LW, et al. **Brain Res** 1996 Jan 29;707(2):256–65
Dual, non-competitive interaction of lead with neuronal nicotinic acetylcholine receptors in N1E-115 neuroblastoma cells. Oortgiesen M, et al. **Brain Res** 1997 Jan 30;747(1):1–8
alpha2,3-sialyltransferase mRNA and alpha2,3-linked glycoprotein sialylation are increased in malignant gliomas. Yamamoto H, et al. **Brain Res** 1997 Apr 25;755(1):175–9
Identification of adrenomedullin receptors in cultured rat astrocytes and in neuroblastboma x glioma hybrid cells (NG108-15). Zimmermann U, et al. **Brain Res** 1996 Jun 17;724(2):238–45
Expression of eight metabotropic glutamate receptor subtypes during neuronal differentiation of P19 embryocarcinoma cells: a study by RT-PCR and in situ hybridization. Heck S, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):85–91
Tetrahydrobiopterin biosynthesis in C6 glioma cells: induction of GTP cyclohydrolase I gene expression by lipopolysaccharide and cytokine treatment. D'Sa C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):105–10
Two types of amyloid precursor protein (APP) mRNA in rat glioma cell lines: upregulation via a cyclic AMP-dependent pathway. Gegelashvili G, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):151–6
Expression of serotonin receptors in human fetal astrocytes and glioma cell lines: a possible role in glioma cell proliferation and migration. Merzak A, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):1–7
Rat C6 and human astrocytic tumor cells express a neuronal type of glutamate transporter. Palos TP, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):297–303
Immortalization of neuroendocrine pinealocytes from transgenic mice by targeted tumorigenesis using the tryptophan hydroxylase promoter. Son JH, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):32–40
Retinoblastoma protein expression and MIB-1 correlate with survival of patients with malignant astrocytoma. Nakamura M, et al. **Cancer** 1997 Jul 15;80(2):242–9
In vivo microdialysis to characterize drug transport in brain tumors: analysis of methotrexate uptake in rat glioma-2 (RG-2)-bearing rats. Devineni D, et al. **Cancer Chemother Pharmacol** 1996;38(6):499–507
The vascular compartment hampers accurate determination of teniposide penetration into brain tumor tissue. van Tellingen O, et al. **Cancer Chemother Pharmacol** 1997; 40(4):330–4
Detection of membrane-associated human chorionic gonadotropin and its subunits on human cultured cancer cells of the nervous system. Acevedo HF, et al. **Cancer Detect Prev** 1997;21(4):295–303
Suppression of heat-induced hsp72 accumulation by cisplatin in human glioblastoma cells. Matsumoto H, et al. **Cancer Lett** 1996 Dec 20;110(1–2):253–7
Ganglioside biosynthetic gene expression in experimental mouse brain tumors. Ecsedy JA, et al. **Cancer Res** 1997 Apr 15;57(8):1580–3
A high ratio of insulin-like growth factor II/insulin-like growth factor binding protein 2 messenger RNA as a marker for anaplasia in meningiomas. Nordqvist AC, et al. **Cancer Res** 1997 Jul 1;57(13):2611–4
Increased expression of low density lipoprotein receptor-related protein/alpha2-macroglobulin receptor in human malignant astrocytomas. Yamamoto M, et al. **Cancer Res** 1997 Jul 1;57(13):2799–805
NMR perfusion and metabolic imaging and some examples on brain tumours. Bovée WM, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):675–89 (41 ref.)
Proton and phosphorus nuclear magnetic resonance spectroscopy of human brain tumor extracts with automatic data classification: a preliminary study. Nadal L, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):659–73
Beta-amyloid precursor protein accumulates in axons around hematogenous metastases of the human brain: immunohistochemical observations. Zhang M, et al. **Clin Neuropathol** 1996 Mar–Apr;15(2):74–8
Localization of voltage-sensitive Ca2+ fluxes and neuropeptide Y immunoreactivity to varicosities in SH-SY5Y human neuroblastoma cells differentiated by treatment with the protein kinase inhibitor staurosporine. Kukkonen JP, et al. **Eur J Neurosci** 1997 Jan;9(1):140–50
Characterization of metabotropic glutamate receptors in rat C6 glioma cells. Albasanz JL, et al. **Eur J Pharmacol** 1997 May 12;326(1):85–91
Tramadol, M1 metabolite and enantiomer affinities for cloned human opioid receptors expressed in transfected HN9.10 neuroblastoma cells. Lai J, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):369–72
Regulation of the functional activity of the human dopamine transporter by the arachidonic acid pathway. Zhang L, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):345–54

Unlocking the blood-brain barrier: a role for RMP-7 in brain tumor therapy. Elliott PJ, et al. **Exp Neurol** 1996 Oct; 141(2):214-24

Tau protein after delta-9-tetrahydrocannabinol in a human neuroblastoma cell line. Lew GM. **Gen Pharmacol** 1996 Oct;27(7):1141-3

The expression of CMP-NeuAc: Gal beta 1,4GlcNAc alpha 2,6 sialyltransferase [EC 2.4.99.1] and glycoproteins bearing alpha 2,6-linked sialic acids in human brain tumours. Yamamoto H, et al. **Glycoconj J** 1995 Dec;12(6):848-56

Expression of adhesion molecules and extracellular matrix proteins in glioblastomas: relation to angiogenesis and spread. Vitolo D, et al. **Histopathology** 1996 Jun;28(6):521-8

Immunohistochemical examination of proliferative potentials and the expression of cell cycle-related proteins of intracranial chordomas. Matsuno A, et al. **Hum Pathol** 1997 Jun;28(6):714-9

Biodistribution of 125I-MAb 425 in a human glioma xenograft model: effect of chloroquine. Emrich JG, et al. **Hybridoma** 1997 Feb;16(1):93-100

Biodistribution of 111In-labelled SCN-bz-DTPA-BC-2 MAb following loco-regional injection into glioblastomas. Merlo A, et al. **Int J Cancer** 1997 May 29;71(5):810-6

Human brain tumor O(6)-methylguanine-DNA methyltransferase mRNA and its significance as an indicator of selective chloroethylnitrosourea chemotherapy. Mineura K, et al. **Int J Cancer** 1996 Oct 21;69(5):420-5

The paracrine role of tumour-derived mIL-4 on tumour-associated endothelium. Saleh M, et al. **Int J Cancer** 1997 Aug 7;72(4):664-72

Difluoromethylornithine enhanced uptake of tritiated putrescine in 9L rat brain tumors. Redgate ES, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):169-74

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of sodium borocaptate with or without blood-brain barrier disruption. Yang W, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):663-72

Contrasting migratory response of astrocytoma cells to tenascin mediated by different integrins. Giese A, et al. **J Cell Sci** 1996 Aug;109 (Pt 8):2161-8

Distribution of endogenous tumour necrosis factor alpha in gliomas. Maruno M, et al. **J Clin Pathol** 1997 Jul; 50(7):559-62

Expression of androgen receptors in astrocytoma. Chung YG, et al. **J Korean Med Sci** 1996 Dec;11(6):517-21

An autopsy case of malignant lymphoma with a high serum CA 125 level occurring only in the brain and pericardium. Watanabe M, et al. **J Med** 1996;27(3-4):221-7

Influence of host cell infiltration on the glycolipid content of mouse brain tumors. Seyfried TN, et al. **J Neurochem** 1996 May;66(5):2026-33

Site-directed deletion of a 10-nucleotide domain of the 3'-untranslated region of the GLUT1 glucose transporter mRNA eliminates cytosolic protein binding in human brain tumors and induction of reporter gene expression. Tsukamoto H, et al. **J Neurochem** 1997 Jun;68(6):2587-92

Proton magnetic resonance spectroscopy and intracranial tumours: clinical perspectives. Falini A, et al. **J Neurol** 1996 Oct;243(10):706-14

Polyamine metabolism in gliomas. Ernestus RI, et al. **J Neurooncol** 1996 Aug;29(2):167-74

Transforming growth factor beta as a potential tumor progression factor among hyperdiploid glioblastoma cultures: evidence for the role of platelet-derived growth factor. Jennings MT, et al. **J Neurooncol** 1997 Feb; 31(3):233-54

The role of boron MRI in boron neutron capture therapy. Kabalka GW, et al. **J Neurooncol** 1997 May;33(1-2):153-61

Pharmacokinetics and boron uptake of BSH (Na2B12H11SH) in patients with intracranial tumors. Kageji T, et al. **J Neurooncol** 1997 May;33(1-2):117-30

Steroids decrease uptake of carboplatin in rat gliomas--uptake improved by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **J Neurooncol** 1997 Sep;34(2):131-8

Brain tumor iron uptake measured with positron emission tomography and 52Fe-citrate. Roelcke U, et al. **J Neurooncol** 1996 Aug;29(2):157-65

A strategy for selective anti-cancer drug concentration increase in rat glioma tissue with Ca(2+)-channel blocker co-administration: calcium kinetics in intra-glioma arteriolar smooth muscle cells. Zenke K, et al. **J Neurooncol** 1996 Oct;30(1):25-36

High-grade human brain tumors exhibit increased expression of myelin transcription factor 1 (MYT1), a zinc finger DNA-binding protein. Armstrong RC, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):772-81

Cyclin and cyclin-dependent kinase expression in human astrocytoma cell lines. Dirks PB, et al. **J Neuropathol Exp Neurol** 1997 Mar;56(3):291-300

Immunohistochemical detection of schwannomin and neurofibromin in vestibular schwannomas, ependymomas and meningiomas. Huynh DP, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):382-90

Correlation of endothelin-1 and transforming growth factor beta 1 with malignancy and vascularity in human gliomas. Stiles JD, et al. **J Neuropathol Exp Neurol** 1997 Apr; 56(4):435-9

TTX-sensitive and -resistant Na+ currents, and mRNA for the TTX-resistant rH1 channel, are expressed in B104 neuroblastoma cells. Gu XQ, et al. **J Neurophysiol** 1997 Jan;77(1):236-46

U-373 MG glioblastoma and IMR-32 neuroblastoma cell lines express the dopamine and vesicular monoamine transporters. Koutsilieri E, et al. **J Neurosci Res** 1996 Aug 1;45(3):269-75

Expression of N-methyl-D-aspartate (NMDA) and non-NMDA glutamate receptor genes in neuroblastoma, medulloblastoma, and other cells lines. Yoshioka A, et al. **J Neurosci Res** 1996 Oct 15;46(2):164-78

Intracarotid infusion of RMP-7, a bradykinin analog, and transport of gallium-68 ethylenediamine tetraacetic acid into human gliomas. Black KL, et al. **J Neurosurg** 1997 Apr;86(4):603-9

Glioblastoma-associated circulating monocytes and the release of epidermal growth factor. Fries G, et al. **J Neurosurg** 1996 Oct;85(4):642-7

Lack of prognostic relevance of alterations in the epidermal growth factor receptor-transforming growth factor-alpha pathway in human astrocytic gliomas. Waha A, et al. **J Neurosurg** 1996 Oct;85(4):634-41

Movable oil in the brain: intracranial ruptured dermoid tumors. Case illustration. Yoshimoto K, et al. **J Neurosurg** 1997 Apr;86(4):734

Quantification and pharmacokinetics of blood-brain barrier disruption in humans. Zünkeler B, et al. **J Neurosurg** 1996 Dec;85(6):1056-65

Urinary epidermal growth factor (EGF) levels and epidermal growth factor receptor (EGF-R) expression in human cerebral tumors. Clinical considerations. Bello L. **J Neurosurg Sci** 1996 Sep-Dec;40(3-4):167-82

Feasibility of imaging pentose cycle glucose metabolism in gliomas with PET: studies in rat brain tumor models. Spence AM, et al. **J Nucl Med** 1997 Apr;38(4):617-24

Scatter factor/hepatocyte growth factor gene transfer enhances glioma growth and angiogenesis in vivo. Laterra J, et al. **Lab Invest** 1997 Apr;76(4):565-77

Proton chemical shift imaging, metabolic maps, and single voxel spectroscopy of glial brain tumors. Mader I, et al. **MAGMA** 1996 Jun;4(2):139-50

1H chemical shift imaging reveals loss of brain tumor choline signal after administration of Gd-contrast. Sijens PE, et al. **Magn Reson Med** 1997 Feb;37(2):222-5

Effect of 6-aminonicotinamide on metabolism of astrocytes and C6-glioma cells. Haghighat N, et al. **Metab Brain Dis** 1996 Mar;12(1):29-45

Subependymal giant cell astrocytoma: a clinicopathologic study with HMB45 and MIB-1 immunohistochemical analysis. Gyure KA, et al. **Mod Pathol** 1997 Apr; 10(4):313-7

Evaluation of human astrocytoma and glioblastoma cell lines for nerve growth factor release. Emmett CJ, et al. **Neurochem Int** 1997 Apr-May;30(4-5):465-74

Somatostatin-14 mainly binds the somatostatin receptor subtype 2 in human neuroblastoma tumors. Prevost G, et al. **Neuroendocrinology** 1996 Feb;63(2):188-97

Tumor cell counting using an image analysis program for MIB-1 immunohistochemistry. Ide M, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):158-62

Elevated plasma basic fibroblast growth factor in brain tumor patients. Kurimoto M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):865-8; discussion 869

In vivo 1H MRS of brain abscesses versus necrotic brain tumors. Grand S, et al. **Neurology** 1996 Sep;47(3):846-8

Loss of merlin expression in sporadic meningiomas, ependymomas and schwannomas. Gutmann DH, et al. **Neurology** 1997 Jul;49(1):267-70

Cyclin D1 in astrocytic tumours: an immunohistochemical study. Chakrabarty A, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):311-6

Luteinizing hormone-releasing hormone in undifferentiated and differentiated SK-N-SH human neuroblastoma cells. Ratka A, et al. **Neuropeptides** 1996 Feb;30(1):87-94

5-HT3 receptors in outside-out patches of N1E-115 neuroblastoma cells: basic properties and effects of pentobarbital. Barann M, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):655-64

Allosteric potentiation of the 5-HT3 receptor-mediated ion current in N1E-115 neuroblastoma cells by 5-hydroxyindole and analogues. van Hooft JA, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):649-53

Effects of valproic acid on beta-adrenergic receptors, G-proteins, and adenylyl cyclase in rat C6 glioma cells. Chen G, et al. **Neuropsychopharmacology** 1996 Sep; 15(3):271-80

Endogenous opioid receptor-like receptor in human neuroblastoma SK-N-SH cells: activation of inhibitory G protein and homologous desensitization. Cheng ZJ, et al. **Neuroreport** 1997 May 27;8(8):1913-8

Increased density of I2-imidazoline receptors in human glioblastomas. Martín-Gómez JI, et al. **Neuroreport** 1996 May 31;7(8):1393-6

Automated classification of human brain tumours by neural network analysis using in vivo 1H magnetic resonance spectroscopic metabolite phenotypes. Usenius JP, et al. **Neuroreport** 1996 Jul 8;7(10):1597-600

Increased gene expression of beta-amyloid precursor protein and its homologues APLP1 and APLP2 in human neuroblastoma cells in response to retinoic acid. Beckman M, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):73-6

Sorbitol accumulation and transmembrane efflux in osmotically stressed JS1 schwannoma cells. Mizisin AP, et al. **Neurosci Lett** 1997 Jun 20;229(1):53-6

Decrease in neuron-restrictive silencer factor (NRSF) mRNA levels during differentiation of cultured neuroblastoma cells. Nishimura E, et al. **Neurosci Lett** 1996 Jun 21;211(2):101-4

Suppressed expression of CD44 variant isoforms during human glioma A172 cell differentiation induced by cyclic AMP. Sakai H, et al. **Neurosci Lett** 1996 Jun 7; 210(3):189-92

Expression of cathepsin D during the progression of human gliomas. Sivaparvathi M, et al. **Neurosci Lett** 1996 Apr 26;208(3):171-4

Reactive oxygen species involved in the glutamate toxicity of C6 glioma cells via xc antiporter system. Mawatari K, et al. **Neuroscience** 1996 Jul;73(1):201-8

Two primitive neuroectodermal tumor cell lines require an activated insulin-like growth factor I receptor for growth in vitro. Chin LS, et al. **Neurosurgery** 1996 Dec; 39(6):1183-90

Evaluation of metabolic heterogeneity in brain tumors using 1H-chemical shift imaging method. Furuya S, et al. **NMR Biomed** 1997 Jan;10(1):25-30

Absolute concentrations of metabolites in human brain tumors using in vitro proton magnetic resonance spectroscopy. Kinoshita Y, et al. **NMR Biomed** 1997 Jan; 10(1):2-12

Relationships among lactate concentration, blood flow and histopathologic profiles in rat C6 glioma. Terpstra M, et al. **NMR Biomed** 1996 Aug;9(5):185-94

Brain tumor: immunohistochemical studies on the stress-response proteins, p53 protein and proliferating cell nuclear antigen. Kato S, et al. **Noshuyo Byori** 1995; 12(2):125-32

Proliferative potential and malignant transformation of ganglioglioma: immunohistochemical studies by MIB-1 and p53 staining. Nagai M, et al. **Noshuyo Byori** 1995; 12(2):141-9

Comparison of uptake of 99mTc-alkylisonitriles in the rat 9L gliosarcoma tumor model. Packard AB, et al. **Nucl Med Biol** 1997 Jan;24(1):21-5

Chimeric anti-tenascin antibody 81C6: increased tumor localization compared with its murine parent. Zalutsky MR, et al. **Nucl Med Biol** 1996 May;23(4):449-58

Effects of ectopic overexpression of p21(WAF1/CIP1) on aneuploidy and the malignant phenotype of human brain tumor cells. Chen J, et al. **Oncogene** 1996 Oct 3; 13(7):1395-403

Identification of a novel gene product, RIG, that is down-regulated in human glioblastoma. Ligon AH, et al. **Oncogene** 1997 Mar 6;14(9):1075-81

Coexpression of hepatocyte growth factor and its receptor (c-met oncogene) in HGL4 glioblastoma cells. Shiota G, et al. **Oncology** 1996 Nov-Dec;53(6):511-6

A clinicopathologic study of 30 cases of oligoastrocytoma including p53 immunohistochemistry. Beckmann MJ, et al. **Pathology** 1997 May;29(2):159-64

Ependymomas in children express the multidrug resistance gene: immunohistochemical and molecular biologic study. Chou PM, et al. **Pediatr Pathol Lab Med** 1996 Jul-Aug; 16(4):551-61

Molecular variants of epidermal growth factor in malignant astrocytoma. Rao RK, et al. **Peptides** 1996;17(1):179-81

Activity of protein kinase C is necessary for sustained thrombin-induced [Ca2+]i oscillations in rat glioma cells. Ubl JJ, et al. **Pflugers Arch** 1997 Jan;433(3):312-20

Effect of citalopram on the desensitization of serotonin-2A receptor-mediated calcium mobilization in rat glioma cells. Kagaya A, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):157-66

Keratin expression in astrocytomas: an immunofluorescent and biochemical reassessment. Kriho VK, et al. **Virchows Arch** 1997 Aug;431(2):139-47

[Metabolic imaging of human brain tumors: H-1 chemical shift imaging and PET] Koga M, et al. **Nippon Rinsho** 1997 Jul;55(7):1774-8 (Eng. Abstr.) **(Jpn)**

[Mapping of cerebral metabolism on cerebral disorders using multi-slice proton magnetic resonance spectroscopic imaging] Tanaka C, et al. **Nippon Rinsho** 1997 Jul; 55(7):1779-84 (4 ref.) (Eng. Abstr.) **(Jpn)**

[Histogenesis of central neurocytoma: an immunohistochemical and electronmicroscopic study of four cases] Akimoto J, et al. **No Shinkei Geka** 1995 Dec; 23(12):1083-91 (Eng. Abstr.) **(Jpn)**

[An immunohistochemical study of the expression of the oncoprotein p53 in astrocytic gliomas of the cerebral hemispheres] Korshunov AG, et al. **Arkh Patol** 1996 Nov-Dec;58(6):37-42 (Eng. Abstr.) **(Rus)**

[Distribution of immunoregulatory carbohydrate lectin receptors on glioma cell membranes and autologus peripheral mononuclears in neuro-oncological patients depending upon the degree of brain tumor anaplasia] Gnedkova IA, et al. **Biull Eksp Biol Med** 1996 Oct; 122(10):441-5 **(Rus)**

MORTALITY

5-year survival and clinical prognostic factors in progressive supratentorial diffuse "low-grade" astrocytoma: a retrospective analysis of 46 cases. Schuurman PR, et al. **Acta Neurochir (Wien)** 1997;139(1):2-7

Mortality from primary malignant brain tumors in the Province of Bologna, Italy, 1986-1988. Fiorani L, et al.

Acta Neurol Scand 1996 May;93(5):355–9
Prognostic factors for glioblastoma multiforme—development of a prognostic index. Gundersen S, et al. **Acta Oncol** 1996;35 Suppl 8:123–7
Improving outcome of malignant brain tumours in very young children: a population–based study in Finland during 1975–93. Ilveskoski I, et al. **Acta Paediatr** 1997 Jul; 86(7):724–9
Survival of patients with extensive small–cell lung cancer who have only brain metastases at initial diagnosis. Kochhar R, et al. **Am J Clin Oncol** 1997 Apr;20(2):125–7
Histologic and morphometric grading of gliomas. A comparative survival analysis. Niedermayer I, et al. **Anal Quant Cytol Histol** 1997 Aug;19(4):301–10
Brain metastases. Histology, multiplicity, surgery, and survival. Nussbaum ES, et al. **Cancer** 1996 Oct 15; 78(8):1781–8
Cerebral oligodendrogliomas in children: an analysis of 15 cases. Rizk T, et al. **Childs Nerv Syst** 1996 Sep;12(9):527–9
Quality–adjusted survival analysis of malignant glioma patients [see comments] Scott CB. **Control Clin Trials** 1997 Aug;18(4):277–85. Comment in: Control Clin Trials 1997 Aug;18(4):306–10. Comment in: Control Clin Trials 1997 Aug;18(4):311–7.
Brain tumors among electronics industry workers [see comments] Beall C, et al. **Epidemiology** 1996 Mar; 7(2):125–30. Comment in: Epidemiology 1996 Mar;7(2):115–6.
Sensitivity of the relation between cumulative magnetic field exposure and brain cancer mortality to choice of monitoring data grouping scheme. Kromhout H, et al. **Epidemiology** 1997 Jul;8(4):442–5
Overall mortality of cellular telephone customers [see comments] Rothman KJ, et al. **Epidemiology** 1996 May; 7(3):303–5. Comment in: Epidemiology 1996 May;7(3):219.
Influence of an oligodendroglial component on the survival of patients with anaplastic astrocytomas: a report of Radiation Therapy Oncology Group 83–02. Donahue B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):911–4
Pineal region tumors and the role of stereotactic biopsy: review of the mortality, morbidity, and diagnostic rates in 370 cases. Regis J, et al. **Neurosurgery** 1996 Nov; 39(5):907–12; discussion 912–4
Occupational exposure to magnetic fields in relation to mortality from brain cancer among electricity generation and transmission workers. Harrington JM, et al. **Occup Environ Med** 1997 Jan;54(1):7–13
Do occupational exposures in nuclear refineries contribute to mortality from brain cancer? [letter] Kusiak R, et al. **Occup Environ Med** 1997 Feb;54(2):142–3
Long–term survival of children with brain tumors. Jenkin D. **Oncology (Huntingt)** 1996 May;10(5):715–9; discussion 720, 722, 728
[The prognostic factors in astrocytic tumors: analysis by the Kaplan–Meier method and the Weibull log–linear model] Hirano H, et al. **No Shinkei Geka** 1996 Sep;24(9):809–15 (Eng. Abstr.) **(Jpn)**

NURSING

Neuro–oncology patients and nursing research issues. Kline NE. **J Pediatr Oncol Nurs** 1996 Jan;13(1):40–2

PATHOLOGY

Potential role of in vitro 1H magnetic resonance spectroscopy in the definition of malignancy grading of human neuroepithelial brain tumours. Carapella CM, et al. **Acta Neurochir Suppl (Wien)** 1997;68:127–32
Stereotactic brain biopsy guided by positron emission tomography (PET) with [F–18]fluorodeoxyglucose and [C–11]methionine. Pirotte B, et al. **Acta Neurochir Suppl (Wien)** 1997;68:133–8
Micro–invasive squamous cell carcinoma arising in a pre–existing intraventricular epidermoid cyst. Case report and literature review. Bayindir C, et al. **Acta Neurochir (Wien)** 1996;138(8):1008–12
Remote hemorrhage of a pontine cavernous angioma fifty–two years after cerebral irradiation. Bejjani GK, et al. **Acta Neurochir (Wien)** 1997;139(6):583–4
Migration of human glioma cells in response to tumour cyst fluids. Giese A, et al. **Acta Neurochir (Wien)** 1996; 138(11):1331–40
Cell kinetic analysis in recurrent neuro–epithelial tumours. Gömöri E, et al. **Acta Neurochir (Wien)** 1996; 138(9):1036–41
Proliferating cell nuclear antigen (PCNA) and Ki–67 immunopositivity in human astrocytic tumours. Kordek R, et al. **Acta Neurochir (Wien)** 1996;138(5):509–12; discussion 513
Intracranial chondrosarcoma. Labram EK, et al. **Acta Neurochir (Wien)** 1997;139(2):156–7
Local spread of malignant neuroepithelial tumors. Laerum OD. **Acta Neurochir (Wien)** 1997;139(6):515–22 (91 ref.)
Potential doubling time and tumour doubling time in meningiomas and neurinomas. Nakasu S, et al. **Acta Neurochir (Wien)** 1996;138(6):763–70
Glial tumourettes (glial microtumours): their clinical and histopathological manifestations. Nishio S, et al. **Acta Neurochir (Wien)** 1996;138(7):818–23
Thalamic gliomas: a clinicopathologic analysis of 20 cases with reference to patient age. Nishio S, et al. **Acta Neurochir (Wien)** 1997;139(4):336–42
Ectopic craniopharyngioma: presentation of a case arising from the corpus callosum. Sangiovanni G, et al. **Acta Neurochir (Wien)** 1997;139(4):379–80
Dural chondroma with fat tissue. Takano M, et al. **Acta Neurochir (Wien)** 1997;139(7):690–1
Gangliosides modulate the growth rate and cell phenotype of a murine primitive neuro–ectodermal tumour. Vaquero J, et al. **Acta Neurochir (Wien)** 1996;138(6):759–62
Mortality from primary malignant brain tumors in the Province of Bologna, Italy, 1986–1988. Fiorani L, et al. **Acta Neurol Scand** 1996 May;93(5):355–9
Immunohistochemistry of primary central nervous system malignant rhabdoid tumors: report of five cases and review of the literature. Behring B, et al. **Acta Neuropathol (Berl)** 1996;91(6):578–86
Cystic ganglioneurocytoma outside the ventricular region. Funato H, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):95–8
Leser–Trélat sign with anaplastic ependymoma—an autopsy case. Hamada Y, et al. **Acta Neuropathol (Berl)** 1997 Jan; 93(1):97–100
The expression of Gal beta 1,4GlcNAc alpha 2,6 sialyltransferase and alpha 2,6–linked sialoglycoconjugates in human brain tumors. Kaneko Y, et al. **Acta Neuropathol (Berl)** 1996;91(3):284–92
Melanotic cerebral astrocytoma: case report and literature review. Kanzawa T, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):200–4 (21 ref.)
Gliosarcoma developing from an irradiated ependymoma. Kepes JJ, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):515–9
Signet–ring cell oligodendroglioma—report of two cases and discussion of the differential diagnosis. Kros JM, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):638–43
Monocyte chemoattractant protein–1 expression and macrophage infiltration in gliomas. Leung SY, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):518–27
Immunohistochemical characterization of subependymal giant cell astrocytomas. Lopes MB, et al. **Acta Neuropathol (Berl)** 1996;91(4):368–75
Histological and ultrastructural analysis of six colloid cysts in children. Macaulay RJ, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):271–6
Distribution and characterization of microglia/macrophages in human brain tumors. Roggendorf W, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):288–93
Neuronal and glial characteristics of central neurocytoma: electron microscopical analysis of two cases. Tsuchida T, et al. **Acta Neuropathol (Berl)** 1996;91(6):573–7
Melanotic astrocytoma. Vajtai I, et al. **Acta Neuropathol (Berl)** 1996;91(5):549–53
Lymph node metastases from glioblastoma multiforme. Wallace CJ, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec; 17(10):1929–31
Interphase cytogenetic (in situ hybridization) analysis of astrocytomas using archival, formalin–fixed, paraffin–embedded tissue and nonfluorescent light microscopy. Perry A, et al. **Am J Clin Pathol** 1997 Aug; 108(2):166–74
Sudden, unexpected death in subjects with undiagnosed gliomas. Lindboe CF, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):271–5
Visualization of injected embolic material [letter; comment] Drlicek M, et al. **Am J Surg Pathol** 1997 Jul;21(7):868–9 . Comment on: Am J Surg Pathol 1995 Jun;19(6):709–11.
Extraventricular neoplasms with neurocytoma features. A clinicopathological study of 11 cases. Giangaspero F, et al. **Am J Surg Pathol** 1997 Feb;21(2):206–12
Clear cell ependymoma: a mimic of oligodendroglioma: clinicopathologic and ultrastructural considerations. Min KW, et al. **Am J Surg Pathol** 1997 Jul;21(7):820–6 (20 ref.)
Histopathology of post–embolized meningiomas. Ng HK, et al. **Am J Surg Pathol** 1996 Oct;20(10):1224–30
Composite pleomorphic xanthoastrocytoma and ganglioglioma: report of four cases and review of the literature. Perry A, et al. **Am J Surg Pathol** 1997 Jul; 21(7):763–71 (23 ref.)
Histologic and morphometric grading of gliomas. A comparative survival analysis. Niedermayer I, et al. **Anal Quant Cytol Histol** 1997 Aug;19(4):301–10
Clinical features and biological markers of brain tumors. Castello MA, et al. **Ann Ist Super Sanita** 1996;32(1):151–7 (54 ref.)
Clinical and prognostic significance of Ki–67 and proliferating cell nuclear antigen expression in childhood primitive neuroectodermal brain tumors. Bodey B, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):189–96
Cell proliferation and invasion in malignant gliomas. Schiffer D, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):61–9
Localization of aberrant messenger RNA of epidermal growth factor receptor (EGFR) in malignant glioma. Tsugu A, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2225–32
Stereotactic biopsy procedures for brain tumor diagnosis. Brady S, et al. **AORN J** 1997 May;65(5):890–2, 894–5, 898 passim
Gliosarcoma. A study of 13 tumors, including p53 and CD34 immunohistochemistry. Sreenan JJ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):129–33
Cerebral gliomas. Pathology and biological 'markers'. Collins VP. **Baillieres Clin Neurol** 1996 Jun;5(2):271–93 (112 ref.)
Quality of life and neurobehavioural functioning in patients with malignant gliomas. Weitzner MA, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):425–39 (64 ref.)
Scatter factor/hepatocyte growth factor expression enhances human glioblastoma tumorigenicity and growth. Laterra J, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):743–7
Depression associated with pontine vascular malformation. Klein P, et al. **Biol Psychiatry** 1997 Sep 15;42(6):519–21
Apoptosis induced by selenium in human glioma cell lines. Zhu Z, et al. **Biol Trace Elem Res** 1996 Aug;54(2):123–34
The level of MnSOD is directly correlated with grade of brain tumours of neuroepithelial origin. Landriscina M, et al. **Br J Cancer** 1996 Dec;74(12):1877–85
Unattached intracranial extra–axial schwannoma. Goel A, et al. **Br J Neurosurg** 1996 Aug;10(4):405–7
Glossopharyngeal neuralgia associated with vascular compression and choroid plexus papilloma. Greene KA, et al. **Br J Neurosurg** 1995;9(6):809–14
Intracranial angiolipoma: report of two cases. Prabu SS, et al. **Br J Neurosurg** 1995;9(6):793–7
Gene therapy for brain tumours [editorial] Whittle IR. **Br J Neurosurg** 1995;9(6):717–20
1,25–Dihydroxyvitamin D3 regulates the expression of the low–affinity neurotrophin receptor. Naveilhan P, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):259–68
GDNF mRNA levels are induced by FGF–2 in rat C6 glioblastoma cells. Suter–Crazzolara C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):175–82
The role of the extracellular matrix in neoplastic glial invasion of the nervous system. Pilkington CJ. **Braz J Med Biol Res** 1996 Sep;29(9):1159–72
Spinal metastases as a first presentation of malignant astrocytoma. Dubé M, et al. **Can Assoc Radiol J** 1996 Oct; 47(5):370–3
Postirradiated and nonirradiated gliosarcoma: immunophenotypical profile. Ang LC, et al. **Can J Neurol Sci** 1996 Nov;23(4):251–6
Paraneoplastic limbic encephalitis in Hodgkin's disease. Deodhare S, et al. **Can J Neurol Sci** 1996 May;23(2):138–40
Malignant rhabdoid tumor of brain: an aggressive clinical entity. Fisher BJ, et al. **Can J Neurol Sci** 1996 Nov; 23(4):257–63
Calmodulin–dependent cyclic nucleotide phosphodiesterase in human cerebral cortex and glioblastoma multiforme. Lal S, et al. **Can J Neurol Sci** 1996 Nov;23(4):245–50
Mechanisms of glioma invasion: role of matrix–metalloproteinases. Uhm JH, et al. **Can J Neurol Sci** 1997 Feb;24(1):3–15 (143 ref.)
Expression of the endogenous galactose–binding protein galectin–3 correlates with the malignant potential of tumors in the central nervous system. Bresalier RS, et al. **Cancer** 1997 Aug 15;80(4):776–87
Improving diagnostic accuracy and interobserver concordance in the classification and grading of primary gliomas. Coons SW, et al. **Cancer** 1997 Apr 1;79(7):1381–93
Differences between phosphotyrosine accumulation and Neu/ErbB–2 receptor expression in astrocytic proliferative processes. Implications for glial oncogenesis [published erratum appears in Cancer 1997 Feb 1;79(3):633–4] Kristt DA, et al. **Cancer** 1996 Sep 15;78(6):1272–83
Association of pleomorphic xanthoastrocytoma with cortical dysplasia and neuronal tumors. A report of three cases. Lach B, et al. **Cancer** 1996 Dec 15;78(12):2551–63
Proliferation index as a predictor of prognosis in malignant gliomas of childhood. Pollack IF, et al. **Cancer** 1997 Feb 15;79(4):849–56
Histologically confirmed pineal tumors and other germ cell tumors of the brain. Schild SE, et al. **Cancer** 1996 Dec 15;78(12):2564–71
Purified herpes simplex thymidine kinase Retrovector particles. I. In vitro characterization, in situ transduction efficiency, and histopathological analyses of gene therapy–treated brain tumors. Kruse CA, et al. **Cancer Gene Ther** 1997 Mar–Apr;4(2):118–28
Germ cell tumors of the brain in children: a review of current literature and new advances in therapy. Kretschmar CS. **Cancer Invest** 1997;15(2):187–98 (94 ref.)
Invasive pattern of lac–Z–transfected human glioblastoma cells in nude mice brain. Go Y, et al. **Cancer Lett** 1996 Dec 20;110(1–2):225–31
Bepridil enhances in vitro antitumor activity of antiestrogens in human brain tumor cells. Lee YS, et al. **Cancer Lett** 1996 Dec 20;110(1–2):243–8
Insulin–like growth factors (IGF) enhance three–dimensional (3D) growth of human glioblastomas. Morford LA, et al. **Cancer Lett** 1997 May 1;115(1):81–90
Molecular and cellular pathology of intrinsic brain tumours. Merzak A, et al. **Cancer Metastasis Rev** 1997 Jun; 16(1–2):155–77 (255 ref.)
Mesial temporal dysembryoplastic neuroepithelial tumor mimicking oligodendroglioma: a case report and review of the literature. Chang BC, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):382–7
Intra–axial endophytic tumors in the pons and/or medulla oblongata. I. Symptoms, neuroradiological findings, and histopathology in 30 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):122–34
Intra–axial endophytic tumors in the pons and/or medulla oblongata. II. Intraoperative findings, postoperative results, and 2–year follow up in 25 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):135–46
Prognostic relevance of localization and grading in intracranial ependymomas of childhood. Ernestus RI, et

al. **Childs Nerv Syst** 1996 Sep;12(9):522–6
Multiple intracranial mixed germ cell tumors. Kumabe T, et al. **Childs Nerv Syst** 1997 Mar;13(3):178–81
Immature teratoma producing alpha-fetoprotein without components of yolk sac tumor in the pineal region. Yamashita N, et al. **Childs Nerv Syst** 1997 Apr;13(4):225–8
Accidentally detected brain tumors: clinical analysis of a series of 110 patients. Kamiguchi H, et al. **Clin Neurol Neurosurg** 1996 May;98(2):171–5
Basal ganglionic angioleiomyoma. Ravikumar C, et al. **Clin Neurol Neurosurg** 1996 Aug;98(3):253–7
Acquired immune deficiency syndrome (AIDS) and cerebral astrocytoma. Tacconi L, et al. **Clin Neurol Neurosurg** 1996 May;98(2):149–51
A study of apoptosis in brain tumors by in situ end-labeling method. Patsouris E, et al. **Clin Neuropathol** 1996 Nov-Dec;15(6):337–41
Dysembryoplastic neuroepithelial tumor: a clinicopathologic and immunohistochemical study of 11 tumors including MIB1 immunoreactivity. Prayson RA, et al. **Clin Neuropathol** 1996 Jan-Feb;15(1):47–53
Preclinical primary central nervous system lymphoma. Sawabe M, et al. **Clin Neuropathol** 1997 Mar-Apr; 16(2):85–9
Temporal lobe lesion demonstrating features of dysembryoplastic neuroepithelial tumor and ganglioglioma: a transitional form? Shimbo Y, et al. **Clin Neuropathol** 1997 Mar-Apr;16(2):65–8
A clinicopathological study of malignant glioma done after local administration of chemotherapeutic agents. Shimura T, et al. **Clin Neuropathol** 1996 Mar-Apr;15(2):119–24
Subependymoma of the third ventricle after partial resection of a craniopharyngioma and repeated postoperative irradiation. Tolnay M, et al. **Clin Neuropathol** 1996 Mar-Apr;15(2):63–6
Cystic chondroma arising from the falx cerebri: a case study with review of literature. Ustün MO, et al. **Clin Neuropathol** 1997 Jan-Feb;16(1):27–9 (16 ref.)
Liver and lung metastases of high-grade astrocytoma showing abnormal Tc-99m MDP localization. Yilmaz M, et al. **Clin Nucl Med** 1997 Jul;22(7):505–6
Intraoperative touch-imprint cytology of germ cell neoplasms [letter] Hoda RS, et al. **Diagn Cytopathol** 1996 Jun;14(4):393–4
Extracranial metastasis of glioblastoma multiforme diagnosed by fine-needle aspiration: a report of two cases and a review of the literature. Vural G, et al. **Diagn Cytopathol** 1996 Jul;15(1):60–5 (29 ref.)
The auditory brain stem response in patients with brain stem or cochlear pathology. Musiek FE, et al. **Ear Hear** 1995 Dec;16(6):631–6
Patterns of MiB-1 staining of brain tumors: microwave-antigen retrieval as a tool in diagnostic pathology. Meera G, et al. **Eur J Morphol** 1995 Nov; 33(4):337–58
Induction of adhesion/differentiation of human neuroblastoma cells by tumour necrosis factor-alpha requires the expression of an inducible nitric oxide synthase. Obregón E, et al. **Eur J Neurosci** 1997 Jun;9(6):1184–93
Noradrenaline inhibits the programmed cell death induced by 1,25-dihydroxyvitamin D3 in glioma. Canova C, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):365–8
Tumor cell endocytosis imaging facilitates delineation of the glioma-brain interface. Zimmer C, et al. **Exp Neurol** 1997 Jan;143(1):61–9
Intracranial tumours in Syrian golden hamsters. Kamino K, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):29–32
Cerebral gangliogliomas. Morphological and immunohistochemical study. Kroh H, et al. **Folia Neuropathol** 1996;34(2):107–13
Malignant peripheral nerve sheath tumor with extensive miliary metastases: a case report. Probst-Cousin S, et al. **Gen Diagn Pathol** 1997 Jun;142(5–6):357–60
Glycolipids and myelin proteins in human oligodendrogliomas. Sung CC, et al. **Glycoconj J** 1996 Jun; 13(3):433–43
Prognostic analysis of astrocytic gliomas correlating histological parameters with the proliferating cell nuclear antigen labelling index (PCNA-LI). Cruz-Sánchez FF, et al. **Histol Histopathol** 1997 Jan;12(1):43–9
Pathology, genetics and cell biology of hemangioblastomas. Wizigmann-Voos S, et al. **Histol Histopathol** 1996 Oct; 11(4):1049–61 (111 ref.)
Primary intracerebral leiomyoma: a case with eosinophilic inclusions of actin filaments. Lin SL, et al. **Histopathology** 1996 Apr;28(4):365–9
Expression of adhesion molecules and extracellular matrix proteins in glioblastomas: relation to angiogenesis and spread. Vitolo D, et al. **Histopathology** 1996 Jun;28(6):521–8
Evaluation of the bystander effect in experimental brain tumors bearing herpes simplex virus-thymidine kinase gene by serial magnetic resonance imaging. Namba H, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1847–52
AIDS-related primary brain lymphomas: histopathologic and immunohistochemical study of 51 cases. The French Study Group for HIV-Associated Tumors. Camilleri-Broët S, et al. **Hum Pathol** 1997 Mar;28(3):367–74
Central neurocytoma: one associated with a fourth ventricular PNET/medulloblastoma and the second mixed with adipose tissue. Horoupian DS, et al. **Hum Pathol** 1997 Sep;28(9):1111–4
Three-dimensional growth patterns of various human tumor cell lines in simulated microgravity of a NASA bioreactor. Ingram M, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun; 33(6):459–66
Pleomorphic xanthoastrocytoma. Pai MR, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):329–31
Autocrine interleukin-1 receptor antagonist can support malignant growth of glioblastoma by blocking growth-inhibiting autocrine loop of interleukin-1. Oelmann E, et al. **Int J Cancer** 1997 Jun 11;71(6):1066–76
Pediatric brain stem gliomas with the predominant symptom of sleep apnea. Ito K, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):53–64
Influence of an oligodendroglial component on the survival of patients with anaplastic astrocytomas: a report of Radiation Therapy Oncology Group 83-02. Donahue B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):911–4
Prognosis of intracranial germinoma with syncytiotrophoblastic giant cells treated by radiation therapy. Shibamoto Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):505–10
Corpus callosum involvement as a prognostic factor for patients with high-grade astrocytoma. Steltzer KJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):27–30
The effect of M-stage on patterns of failure in posterior fossa primitive neuroectodermal tumors treated on CCG-921: a phase III study in a high-risk patient population. Yao MS, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):469–76
Brain metastasis in malignant pleural mesothelioma. Kawai A, et al. **Intern Med** 1997 Aug;36(8):591–4 (20 ref.)
The lac-z reporter gene: a tool for in vitro studies of malignant glioma cell invasion. Garcia-Cabrera I, et al. **Invasion Metastasis** 1996;16(3):107–15
Familial cavernous hemangioma with atypical neuroimaging. Passarin MG, et al. **Ital J Neurol Sci** 1996 Aug; 17(4):295–300
The enhanced tumorigenic activity of a mutant epidermal growth factor receptor common in human cancers is mediated by threshold levels of constitutive tyrosine phosphorylation and unattenuated signaling. Huang HS, et al. **J Biol Chem** 1997 Jan 31;272(5):2927–35
Neurocutaneous melanosis with Dandy-Walker malformation complicated by primary spinal leptomeningeal melanoma. Craver RD, et al. **J Child Neurol** 1996 Sep;11(5):410–4
Primary primitive neuroectodermal tumor of the leptomeninges. Mendal RC, et al. **J Child Neurol** 1996 Sep; 11(5):404–7
Prospective study of postoperative magnetic resonance imaging in patients with malignant gliomas. Forsyth PA, et al. **J Clin Oncol** 1997 May;15(5):2076–81
Low-grade astrocytoma: a decade of experience at St. Jude Children's Research Hospital. Gajjar A, et al. **J Clin Oncol** 1997 Aug;15(8):2792–9
Meningioangiomatosis in the brain stem of a dog. Pumarola M, et al. **J Comp Pathol** 1996 Aug;115(2):197–201
Proliferative potentials of glioma cells and vascular components determined with monoclonal antibody MIB-1. Di X, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):153–7
Fine needle aspiration biopsy of astrocytoma brain--a case report. Arora B, et al. **J Indian Med Assoc** 1996 Jun; 94(6):244
Secretory meningioma--a case report with histopathological, immunohistochemical and ultrastructural analysis. Jeong HS, et al. **J Korean Med Sci** 1996 Aug;11(4):369–72
Expression of bFGF and VEGF in brain astrocytoma. Shim JW, et al. **J Korean Med Sci** 1996 Apr;11(2):149–57
Magnetic resonance spectroscopy (MRS) in the evaluation of pediatric brain tumors, Part I: Introduction to MRS. Byrd SE, et al. **J Natl Med Assoc** 1996 Oct;88(10):649–54 (15 ref.)
Pure word deafness after resection of a tectal plate glioma with preservation of wave V of brain stem auditory evoked potentials [letter] Meyer B, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):423–4
Low-grade gliomas of chronic epilepsy: a distinct clinical and pathological entity. Bartolomei JC, et al. **J Neurooncol** 1997 Aug;34(1):79–84
Primary intracerebral osteosarcoma: a case report. Bauman GS, et al. **J Neurooncol** 1997 May;32(3):209–13
Low grade gliomas: functional mapping resection strategies, extent of resection, and outcome. Berger MS, et al. **J Neurooncol** 1997 Aug;34(1):85–101 (80 ref.)
Primary T-cell lymphoma of the brain in acquired immunodeficiency syndrome: case report. Bindal AK, et al. **J Neurooncol** 1997 Feb;31(3):267–71
Lectin histochemistry of astrocytic tumors and in vitro characterization of lectin-induced modifications on the proliferation of the SW1088, U373 and U87 human astrocytic cell lines. Camby I, et al. **J Neurooncol** 1997 Sep;34(2):111–22
Cerebral rhabdomyosarcoma with rhabdoid tumor-like features. Caputo V, et al. **J Neurooncol** 1997 Mar;32(1):81–6
Oligodendrogliomas. Part II: A new grading system based on morphological and imaging criteria. Daumas-Duport C, et al. **J Neurooncol** 1997 Aug;34(1):61–78
Oligodendrogliomas. Part I: Patterns of growth, histological diagnosis, clinical and imaging correlations: a study of 153 cases. Daumas-Duport C, et al. **J Neurooncol** 1997 Aug; 34(1):37–59
Lectin histochemistry of ethylnitrosourea-induced oligodendrogliomas in the rat. Figols J, et al. **J Neurooncol** 1997 Feb;31(3):227–32
Proliferative activity of central neurocytoma: measurement of tumor volume doubling time, MIB-1 staining index and bromodeoxyuridine labeling index. Fujimaki T, et al. **J Neurooncol** 1997 Apr;32(2):103–9
Late sequelae of treated pleomorphic xanthoastrocytoma: malignant brain stem astrocytoma occurring 15 years after radiation therapy. Fuller GN, et al. **J Neurooncol** 1997 Mar; 32(1):57–61
Interstitial fluid flow along white matter tracts: a potentially important mechanism for the dissemination of primary brain tumors. Geer CP, et al. **J Neurooncol** 1997 May; 32(3):193–201
Gliomatosis cerebri mimicking a metastatic breast cancer: fatal outcome. Iglesias A, et al. **J Neurooncol** 1997 Apr; 32(2):175–8
Inhibitory effects of CAI in glioblastoma growth and invasion. Jacobs W, et al. **J Neurooncol** 1997 Apr; 32(2):93–101
Transforming growth factor beta as a potential tumor progression factor among hyperdiploid glioblastoma cultures: evidence for the role of platelet-derived growth factor. Jennings MT, et al. **J Neurooncol** 1997 Feb; 31(3):233–54
Oligoastrocytomas: a clinicopathological study of 52 cases. Krouwer HG, et al. **J Neurooncol** 1997 Jul;33(3):223–38
Glial ontogeny and glial neoplasia: the search for closure. Linskey ME. **J Neurooncol** 1997 Aug;34(1):5–22 (136 ref.)
Low-grade gliomas: introduction and overview. Piepmeier JM, et al. **J Neurooncol** 1997 Aug;34(1):1–3 (26 ref.)
The effect of calphostin C, a potent photodependent protein kinase C inhibitor, on the proliferation of glioma cells in vitro. Pollack IF, et al. **J Neurooncol** 1997 Feb;31(3):255–66
Proliferative activity and prognosis of low-grade astrocytomas. Schiffer D, et al. **J Neurooncol** 1997 Aug; 34(1):31–5
Neuro-ophthalmologic manifestations of adenoid cystic carcinoma. Lee AG, et al. **J Neuroophthalmol** 1997 Sep; 17(3):183–8
The clinical significance of extracellular matrix in gangliogliomas. Jaffey PB, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1246–52
A comparison of the predictive power for survival in gliomas provided by MIB-1, bromodeoxyuridine and proliferating cell nuclear antigen with histopathologic and clinical parameters. McKeever PE, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):798–805
Analysis of p53 mutation and epidermal growth factor receptor amplification in recurrent gliomas with malignant progression. Reifenberger J, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):822–31
Characterization of a CNS cell line, CAD, in which morphological differentiation is initiated by serum deprivation. Qi Y, et al. **J Neurosci** 1997 Feb 15; 17(4):1217–25
Tuberculoma presenting as an en plaque meningioma. Case report. Bauer J, et al. **J Neurosurg** 1996 Oct;85(4):685–8
Peripheral nerve or brainstem glioblastoma [letter; comment] Fernandez E. **J Neurosurg** 1997 Apr;86(4):739–41. Comment on: J Neurosurg 1996 Jun;84(6):1062–6.
Central neurocytoma [letter; comment] Fujimaki T. **J Neurosurg** 1997 Feb;86(2):321–2. Comment on: J Neurosurg 1996 May;84(5):742–7.
Analysis of the proliferative potential of residual tumor after radiosurgery for intraparenchymal brain metastases. Harris OA, et al. **J Neurosurg** 1996 Oct;85(4):667–71
Differentiating neuroblastoma of pituitary gland: neuroblastic transformation of epithelial adenoma cells. Case report. Lach B, et al. **J Neurosurg** 1996 Nov;85(5):953–60
Primary intracranial germ cell tumors: a clinical analysis of 153 histologically verified cases. Matsutani M, et al. **J Neurosurg** 1997 Mar;86(3):446–55
Observer reliability in histological grading of astrocytoma stereotactic biopsies. Mittler MA, et al. **J Neurosurg** 1996 Dec;85(6):1091–4
Apoptosis of human glioma cells in vitro and in vivo induced by a neutralizing antibody against human basic fibroblast growth factor. Murai N, et al. **J Neurosurg** 1996 Dec; 85(6):1072–7
Giant chondroma of the falx [letter] Pallini R, et al. **J Neurosurg** 1997 Aug;87(2):333–4
Maturation of intracranial immature teratomas. Report of two cases. Shaffrey ME, et al. **J Neurosurg** 1996 Oct;85(4):672–6
Isolation and characterization of human malignant glioma cells from histologically normal brain [see comments] Silbergeld DL, et al. **J Neurosurg** 1997 Mar;86(3):525–31 . Comment in: J Neurosurg 1997 Sep;87(3):484–5.
Increased choline signal coinciding with malignant degeneration of cerebral gliomas: a serial proton magnetic resonance spectroscopy imaging study. Tedeschi G, et al. **J Neurosurg** 1997 Oct;87(4):516–24
Stereotactic biopsy of nonpolar tumors in the dominant hemisphere: a prospective study of effects on language functions. Thomson AM, et al. **J Neurosurg** 1997 Jun; 86(6):923–6
A huge intramedullary epidermoid cyst: mimicking cauda equina ependymoma. Diagnostic failure of myelography and myelo-CT. Biliciler B, et al. **J Neurosurg Sci** 1996 Jun;40(2):149–52
Desmoplastic non-infantile ganglioglioma. Galatioto S, et al. **J Neurosurg Sci** 1996 Sep-Dec;40(3–4):235–8
Intramedullary astrocytoma with cartilage formation. Case

report. Maleci A, et al. **J Neurosurg Sci** 1996 Jun; 40(2):157–60

Metastatic oligodendroglioma. Case report. Monzani V, et al. **J Neurosurg Sci** 1996 Sep–Dec;40(3–4):239–41

Cavernous angioma of the diencephalon. Zotta D, et al. **J Neurosurg Sci** 1995 Sep;39(3):159–63

Proliferative activity in human brain tumors: comparison of histopathology and L-[1-(11)C]tyrosine PET. de Wolde H, et al. **J Nucl Med** 1997 Sep;38(9):1369–74

Stereotactic biopsy of brain tumours. Shams S, et al. **JPMA J Pak Med Assoc** 1996 Aug;46(8):176–8

Modulation of motility and proliferation of glioma cells by hepatocyte growth factor. Yamamoto S, et al. **Jpn J Cancer Res** 1997 Jun;88(6):564–77

Intracranial ganglioglioma: CT and MRI findings. Luo CB, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Aug; 13(8):467–74

Interferon-gamma inhibits proliferation and adhesion of T98G human malignant glioma cells in vitro. Knüpfer MM, et al. **Klin Padiatr** 1997 Jul–Aug;209(4):271–4

Diffuse brain invasion of glioma cells requires beta 1 integrins. Paulus W, et al. **Lab Invest** 1996 Dec;75(6):819–26

Quantification of low-velocity motion using a navigator-echo supported MR velocity-mapping technique: application to intracranial dynamics in volunteers and patients with brain tumours. Wirestam R, et al. **Magn Reson Imaging** 1997;15(1):1–11

Implantation metastasis of primary malignant rhabdoid tumor of the brain in an adult (one case report). Ashraf R, et al. **Med Pediatr Oncol** 1997 Mar;28(3):223–7

Cerebral tumor volume calculations using planimetric and eigenimage analysis. Peck DJ, et al. **Med Phys** 1996 Dec; 23(12):2035–42

Culture of cells from human tumors of the nervous system on an extracellular matrix derived from bovine corneal endothelial cells. Westphal M, et al. **Methods Mol Biol** 1997;75:185–207 (33 ref.)

MIN-biopsy of brain tumors: operative technique and histomorphological results. Scholz M, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):12–6

Primary intracerebral malignant fibrous histiocytoma: immunohistochemical findings and etiopathogenetic considerations. Martinez-Salazar A, et al. **Mod Pathol** 1997 Feb;10(2):149–54 (42 ref.)

In vitro and in vivo antineoplastic effects of orthovanadate. Cruz TF, et al. **Mol Cell Biochem** 1995 Dec 6–20; 153(1–2):161–6

Cervical dystonia associated with tumors of the posterior fossa. Krauss JK, et al. **Mov Disord** 1997 May;12(3):443–7

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 14–1997. A 30-year-old woman with intractable seizures despite a temporal lobectomy [clinical conference] **N Engl J Med** 1997 May 8;336(19):1373–9

Learning from our errors [letter; comment] Azevedo JR, et al. **N Engl J Med** 1997 Mar 20;336(12):877; discussion 877–8 . Comment on: N Engl J Med 1996 Oct 3;335(14):1049–53.

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 12–1997. A 50-year-old woman with multiple sclerosis and an enlarging frontal-lobe mass [clinical conference] Paydarfar D, et al. **N Engl J Med** 1997 Apr 17;336(16):1163–71

In vitro and in vivo gene delivery mediated by a synthetic polycationic amino polymer. Goldman CK, et al. **Nat Biotechnol** 1997 May;15(5):462–6

Role of apoptosis in the prognosis of oligodendrogliomas. Schiffer D, et al. **Neurochem Int** 1997 Aug;31(2):245–50

Intracerebral Schwannoma--case report. Haga Y, et al. **Neurol Med Chir (Tokyo)** 1997 Jul;37(7):551–5

Intramedullary spinal cord and brain metastases from thyroid carcinoma detected 11 years after initial diagnosis--case report. Honma Y, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):593–7

Intraparenchymal meningioma in an infant--case report. Kohama I, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):598–601 (11 ref.)

Intraparenchymal metastatic tumor with periventricular dissemination--case report. Liu RY, et al. **Neurol Med Chir (Tokyo)** 1997 Jan;37(1):55–8

Bilateral giant intracavernous carotid artery aneurysms mimicking a cavernous sinus neoplasm--case report. Matsumoto K, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):583–5

Spontaneous intraventricular hemorrhage caused by lateral ventricular meningioma--case report. Murai Y, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):586–9

Brainstem schwannoma--case report. Tanabe M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):880–3

Experimental and clinical study of detection of glioma at surgery using fluorescent imaging by a surgical microscope after fluorescein administration. Kabuto M, et al. **Neurol Res** 1997 Feb;19(1):9–16

The prognostic impact of prior low grade histology in patients with anaplastic gliomas: a case-control study. Dropcho EJ, et al. **Neurology** 1996 Sep;47(3):684–90

Local invasion and intraparenchymal metastasis of astrocytomas. Bernstein JJ. **Neuropathol Appl Neurobiol** 1996 Oct;22(5):421–4 (12 ref.)

Effect of histamine and the H2 antagonist cimetidine on the growth and migration of human neoplastic glia [published erratum appears in Neuropathol Appl Neurobiol 1996 Dec;22(6):559] Finn PE, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):317–24

Cryopreservation of organotypic multicellular spheroids from human gliomas. Kaaijk P, et al. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):548–52

Imaging strategies for brain tumours. Kingsley D. **Neuropathol Appl Neurobiol** 1996 Oct;22(5):418–21 (9 ref.)

Role of high molecular weight extracellular matrix proteins in glioma cell migration. Mahesparan R, et al. **Neuropathol Appl Neurobiol** 1997 Apr;23(2):102–12

Plastic phenotype of human oligodendroglial tumour cells in vitro. Tenenbaum L, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):302–10

Non-HTLV-I associated pleomorphic T-cell lymphoma of the brain mimicking post-vaccinal acute inflammatory demyelination. Wanschitz J, et al. **Neuropathol Appl Neurobiol** 1997 Feb;23(1):43–9

Pathology of brain tumors: the current state of diagnostic practice. Weller RO, et al. **Neuropathol Appl Neurobiol** 1996 Oct;22(5):407–14 (24 ref.)

The influence of gastrin and/or cholecystokinin antagonists on the proliferation of three human astrocytic tumor cell lines. Camby I, et al. **Neuropeptides** 1996 Oct;30(5):433–7

VIP and pituitary adenylate cyclase activating polypeptide (PACAP) have an antiproliferative effect on the T98G human glioblastoma cell line through interaction with VIP2 receptor. Vertongen P, et al. **Neuropeptides** 1996 Oct; 30(5):491–6

Schizophreniform catatonia on 6 cases secondary to hydrocephalus with subthalamic mesencephalic tumor associated with hypodopaminergia. Neuman E, et al. **Neuropsychobiology** 1996;34(2):76–81

Neuron-like physiological properties of cells from human oligodendroglial tumors. Patt S, et al. **Neuroscience** 1996 Mar;71(2):601–11

Enhanced tolerance of neuroblastoma cells towards the neurotoxin 6-hydroxydopamine following specific cell-cell interaction with primary astrocytes. Yu PH, et al. **Neuroscience** 1997 Jun;78(3):903–12

Diagnosis of suspected intracranial metastases. Role of direct tissue examination. Carter BS, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):425–33 (23 ref.)

Pathology of cerebral metastases. Takahashi JA, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):345–67 (105 ref.)

Cavernous angioma of the cauda equina: report of two cases and review of the literature. Cervoni L, et al. **Neurosurg Rev** 1995;18(4):281–3

Malignant chiasmal glioma: a rare cause of rapid visual loss. Valdueza JM, et al. **Neurosurg Rev** 1995;18(4):273–5

Two primitive neuroectodermal tumor cell lines require an activated insulin-like growth factor I receptor for growth in vitro. Chin LS, et al. **Neurosurgery** 1996 Dec; 39(6):1183–90

Enhanced optical imaging of human gliomas and tumor margins. Haglund MM, et al. **Neurosurgery** 1996 Feb; 38(2):308–17 (58 ref.)

Evaluation of lipid-coated microbubbles as a delivery vehicle for Taxol in brain tumor therapy. Ho SY, et al. **Neurosurgery** 1997 Jun;40(6):1260–6; discussion 1266–8

Growth-inhibitory and differentiation-inducing activity of dimethylformamide in cultured human malignant glioma cells. Li XN, et al. **Neurosurgery** 1997 Jun;40(6):1250–8; discussion 1258–9

Inhibition of epidermal growth factor receptor-associated tyrosine kinase blocks glioblastoma invasion of the brain. Penar PL, et al. **Neurosurgery** 1997 Jan;40(1):141–51

Intracranial epithelioid hemangioendothelioma: case report. Puca A, et al. **Neurosurgery** 1996 Feb;38(2):399–401

Pineal region tumors and the role of stereotactic biopsy: review of the mortality, morbidity, and diagnostic rates in 370 cases. Regis J, et al. **Neurosurgery** 1996 Nov; 39(5):907–12; discussion 912–4

Effects of basic fibroblast growth factor on in vivo cerebral tumorigenesis in rats. Segal DH, et al. **Neurosurgery** 1997 May;40(5):1027–33

Percutaneous biopsy of cavernous sinus tumors through the foramen ovale. Sindou M, et al. **Neurosurgery** 1997 Jan; 40(1):106–10; discussion 110–1

Hypoxia-mediated selection of cells with diminished apoptotic potential to solid tumours [letter] Van Meir E. **Neurosurgery** 1996 Oct;39(4):878–9

In vitro inhibition of cell proliferation, viability, and invasiveness in U87MG human glioblastoma cells by estramustine phosphate. Yoshida D, et al. **Neurosurgery** 1996 Aug;39(2):360–6

An autopsy case of intravascular malignant lymphoma presenting with intracranial B-cell type malignant lymphoma. Fukuchi M, et al. **Noshuyo Byori** 1996 Nov; 13(2):119–25

Morphological features of gliomas in children. Hirato J, et al. **Noshuyo Byori** 1996 Apr;13(1):37–47

Clear cell variants of intracranial tumors: meningioma and ependymoma. Kakita A, et al. **Noshuyo Byori** 1995; 12(2):111–6

Repeating hemorrhage with a long duration after radiotherapy for glioma: radiological and histological observations. Kawano H, et al. **Noshuyo Byori** 1996 Apr; 13(1):85–92

Tubular bodies (Weibel-Palade bodies) in endothelial cells of glioblastomas and astrocytomas. Miyagami M, et al. **Noshuyo Byori** 1996 Nov;13(2):107–13

Proliferative potential and malignant transformation of ganglioglioma: immunohistochemical studies by MIB-1 and p53 staining. Nagai M, et al. **Noshuyo Byori** 1995; 12(2):141–9

Undifferentiated tumor originating in the cerebral dysgenetic lesion resembling fibrous cartilage: case report. Saito A, et al. **Noshuyo Byori** 1996 Nov;13(2):149–55

Palisades in cerebral astrocytoma simulating the so-called polar spongioblastoma: a histological, immunohistochemical, and electron microscopical study of an adult case. Yagishita S, et al. **Noshuyo Byori** 1996 Apr; 13(1):21–5

Correlation of histopathological factor of brain tumor and high thallium-201 uptake in single photon emission computed tomography. Yoshii Y, et al. **Noshuyo Byori** 1996 Apr;13(1):61–5

Functional characterization of brain tumors: an overview of the potential clinical value. Brunetti A, et al. **Nucl Med Biol** 1996 Aug;23(6):699–715 (274 ref.)

Loss of heterozygosity of a locus on 17p13.3, independent of p53, is associated with higher grades of astrocytic tumours. Chattopadhyay P, et al. **Oncogene** 1997 Aug 14; 15(7):871–4

In vitro inhibition of human glioblastoma cell line invasiveness by antisense uPA receptor. Mohanam S, et al. **Oncogene** 1997 Mar 20;14(11):1351–9

MIB1 and p53 immunoreactivity in protoplasmic astrocytomas. Prayson RA, et al. **Pathol Int** 1996 Nov; 46(11):862–6

Intracranial ependymomas of childhood. Lack of correlation of histopathology and clinical outcome. Gerszten PC, et al. **Pathol Res Pract** 1996 Jun;192(6):515–22

Mixed germ-cell tumor of the brain. Pathologic study of six autopsy cases. Ikura Y, et al. **Pathol Res Pract** 1996 Jun;192(6):595–603

Correlation of histology, cytogenetics and proliferation fraction (Ki-67 and PCNA) quantitated by image analysis in meningiomas. Striepecke E, et al. **Pathol Res Pract** 1996 Aug;192(8):816–24

Primary intracerebral small lymphocytic non-Hodgkin's lymphoma with plasmacytoid differentiation, associated with prominent extracellular proteinaceous deposits. Cachia AR, et al. **Pathology** 1996 Jan;28(1):98–101

Immunohistochemically identifiable tissue plasminogen activator in cavernous angioma: mechanism for re-hemorrhage and lesion growth. Frim DM, et al. **Pediatr Neurosurg** 1996 Sep;25(3):137–41; discussion 141–2

Brainstem gliomas in children. A Children's Cancer Group review of 119 cases. Kaplan AM, et al. **Pediatr Neurosurg** 1996;24(4):185–92

Extradural myxopapillary ependymoma: report of two cases and review of the literature. Kline MJ, et al. **Pediatr Pathol Lab Med** 1996 Sep–Oct;16(5):813–22 (20 ref.)

Primary intracranial germ cell tumors: clinicopathologic review of 32 cases. Salzman KL, et al. **Pediatr Pathol Lab Med** 1997 Sep–Oct;17(5):713–27 (23 ref.)

Metastasis of an intracranial germinoma through a ventriculoperitoneal shunt: recurrence as a yolk-sac tumor. Back MR, et al. **Pediatr Surg Int** 1997;12(1):24–7

Intracranial adult teratoma--a case report. Ziółkowski P. **Pol J Pathol** 1996;47(2):95–6 (10 ref.)

The risk of interstitial radiotherapy of low-grade gliomas. Kreth FW, et al. **Radiother Oncol** 1997 Jun;43(3):253–60

Intracranial germinoma metastasizing via a ventriculo-peritoneal shunt. Wong KT, et al. **Singapore Med J** 1996 Aug;37(4):441–2 (13 ref.)

Neoplasms of the pineal region. Prahlow JA, et al. **South Med J** 1996 Nov;89(11):1081–7

Foramen magnum schwannoma with an unusual clinical presentation: case report. Sairyo K, et al. **Spinal Cord** 1997 Aug;35(8):554–6

Cerebral meningioangiomatosis: case report. Tacconi L, et al. **Surg Neurol** 1997 Sep;48(3):255–60 (20 ref.)

Central neurocytoma: clinical, immunohistologic, and biologic findings of a human neuroglial progenitor tumor. Valdueza JM, et al. **Surg Neurol** 1996 Jan;45(1):49–56

Malignancy transplantation with graft: do patients with primary central nervous system tumors have to be excluded from the donor pool? [letter; comment] Detry O, et al. **Transpl Int** 1997;10(1):83–4. Comment on: Transpl Int 1996;9(4):426–9.

Liver graft-transmitted glioblastoma multiforme. A case report and experience with 13 multiorgan donors suffering from primary cerebral neoplasia [see comments] Jonas S, et al. **Transpl Int** 1996;9(4):426–9 (16 ref.). Comment in: Transpl Int 1997;10(1):83–4.

Clinical determinants of long-term survival in patients with glioblastoma multiforme. Pollak L, et al. **Tumori** 1997 Mar–Apr;83(2):613–7 (29 ref.)

Primary malignant rhabdoid tumor of the central nervous system. Bhattacharjee M, et al. **Ultrastruct Pathol** 1997 Jul–Aug;21(4):361–8 (23 ref.)

Central nervous system atypical teratoid/rhabdoid tumors of infancy and childhood. Bhattacharjee M, et al. **Ultrastruct Pathol** 1997 Jul–Aug;21(4):369–78 (14 ref.)

Ultrastructural pathology of glial brain tumors revisited: a review. Liberski PP, et al. **Ultrastruct Pathol** 1997 Jan–Feb; 21(1):1–31 (94 ref.)

Malignant intracranial teratoma in a juvenile Wistar rat. Reindel J, et al. **Vet Pathol** 1996 Jul;33(4):462–5

Atypical presentation of a dermoid brain cyst. Higgins HL, et al. **W V Med J** 1996 Nov–Dec;92(6):312–5

[A clinical and pathological study of gliosarcoma] Li N, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun; 25(3):129–31 (Eng. Abstr.) **(Chi)**

[Inhibitory effect of antisense LIF oligonucleotide on the outgrowth of human medulloblastoma cells] Liu J, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):132–4 (Eng. Abstr.) **(Chi)**

[Primitive extracranial meningioma: a case report of intratemporal and naso-sinusal localization] Bertrand B, et al. **J Otolaryngol** 1996 Jun;25(3):182–7 (Eng. Abstr.) **(Fre)**

[Cellular infiltration of the anterior and posterior eye segment with involvement of the peripheral retina, optic atrophy and secondary glaucoma. Non-Hodgkin's lymphoma of the central nervous system with ocular involvement at a young age] Wenkstern A, et al. **Ophthalmologe** 1997 Feb; 94(2):162–3 **(Ger)**

[Biopsy examination in neurosurgical operations] Feiden W, et al. **Pathologe** 1997 Jan;18(1):107–10 **(Ger)**

[CT-angiography in planning stereotaxic biopsies] Bartylla K, et al. **Radiologe** 1996 Nov;36(11):867–71 (Eng. Abstr.) **(Ger)**

[Primary cerebral T-cell lymphoma] Vajtai I, et al. **Orv Hetil** 1996 Mar 24;137(12):637–41 (32 ref.) (Eng. Abstr.) **(Hun)**

[The neuropsychological study of 21 patients with expanding cerebral lesions. Preliminary results] Bucciero A, et al. **Minerva Psichiatr** 1995 Dec;36(4):199–202 (Eng. Abstr.) **(Ita)**

[Magnetic resonance features in cerebral primary lymphomas in non-immunocompromised subjects] Floris R, et al. **Radiol Med (Torino)** 1997 Mar;93(3):236–41 (Eng. Abstr.) **(Ita)**

[Histopathological and autoradiographical studies of experimental brain tumors after continuous local chemotherapy--acute stage in rat models] Shimura T, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):713–8 (Eng. Abstr.) **(Jpn)**

[Establishment of human glioblastoma cell line "TK-1"] Tsuboi K, et al. **Hum Cell** 1996 Jun;9(2):125–8 **(Jpn)**

[Correlation between MR imaging and histopathological findings of cystic metastatic brain tumors] Fukusumi A, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Dec; 56(14):1019–26 (Eng. Abstr.) **(Jpn)**

[Expression of apoptosis-related gene products in human brain tumors and apoptosis-inducing therapy] Tabuchi K, et al. **Nippon Rinsho** 1996 Jul;54(7):1922–8 (18 ref.) (Eng. Abstr.) **(Jpn)**

[A review of cell kinetics of brain tumors with use of flow cytometry] Kawamoto K. **No Shinkei Geka** 1995 Dec; 23(12):1059–68 (59 ref.) **(Jpn)**

[A case of olfactory neuroblastoma with intracranial, intraorbital extension and multiple metastases] Sasaki M, et al. **No Shinkei Geka** 1997 Feb;25(2):163–7 (Eng. Abstr.) **(Jpn)**

[A case report of germinoma with syncytiotrophoblastic giant cells (STGC) in the basal ganglia] Ueda A, et al. **No Shinkei Geka** 1996 Mar;24(3):267–71 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Study on potentiation of nitrosourea-cytotoxicity by DNA repair enzyme inhibitors in human brain tumor cells] Fukuchi M, et al. **No To Shinkei** 1997 Jun;49(6):521–8 (Eng. Abstr.) **(Jpn)**

[Experimental study of detection of brain tumor at surgery using fluorescent imaging under a surgical microscope after fluorescein administration] Kabuto M, et al. **No To Shinkei** 1997 Mar;49(3):261–5 (Eng. Abstr.) **(Jpn)**

[Extrapyramidal signs in the course of cystic meningioma of cerebral hemisphere] Czepko R, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):503–7 (Eng. Abstr.) **(Pol)**

[Multifocal astrocytoma diagnosed by peroperative ultrasound scanning] Harat M, et al. **Neurol Neurochir Pol** 1996 Sep-Oct;30(5):861–6 (Eng. Abstr.) **(Pol)**

[Interhemispheric extracranial and intracranial tumor of parietal area (chondromyxoid fibroma) in a 13-year-old child with 7 years of follow-up] Iwaniukowicz A, et al. **Neurol Neurochir Pol** 1996 Sep-Oct;30(5):867–72 (Eng. Abstr.) **(Pol)**

[Primary brain lymphoma: diagnostic problems] Mierzejewska E, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):1033–42 (Eng. Abstr.) **(Pol)**

[The blood-brain barrier. II. Pathology: brain tumors, brain edema, hypertension, epilepsy] Sobaniec W, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):1009–19 (Eng. Abstr.) **(Pol)**

[Morphologic analysis of of microglia in astrocytomas] Wierzba-Bobrowicz T, et al. **Neurol Neurochir Pol** 1997 Jan-Feb;31(1):51–62 (Eng. Abstr.) **(Pol)**

[Intracranial chordomas; histochemical and immunohistochemical examinations] Zimnoch L, et al. **Neurol Neurochir Pol** 1997 Jan-Feb;31(1):89–101 (Eng. Abstr.) **(Pol)**

[Peripheral neuroepithelioma] Iurin AG, et al. **Arkh Patol** 1996 Jul-Aug;58(4):69–72 (Eng. Abstr.) **(Rus)**

[Racemose angioma of the nervous system: tumor or ontogenic defect?] Matsko DE, et al. **Vopr Onkol** 1996; 42(6):91–6 (25 ref.) **(Rus)**

[An analysis of the interconnections between the proliferative activity of benign and anaplastic astrocytomas of the cerebral hemispheres and their histological structural characteristics] Korshunov AG, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Jan-Mar; (1):30–4 (Eng. Abstr.) **(Rus)**

[The stereotaxic biopsy of tumors in the pineal area] Melikian AG, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Jan-Mar;(1):19–22 (Eng. Abstr.) **(Rus)**

[Suprasellar and pineal germinoma with spinal dissemination] Roganović Z, et al. **Vojnosanit Pregl** 1996 Jul-Aug; 53(4):331–4 **(Scr)**

[Laryngeal amyloidosis and multiple myeloma: a case report] Lasso Luis O, et al. **An Otorrinolaringol Ibero Am** 1996; 23(5):511–24 (Eng. Abstr.) **(Spa)**

[Primary cerebral lymphoma in a immunologically healthy patient. Letter] López-Gastón J, et al. **Rev Neurol** 1997 Feb;25(138):312–3 **(Spa)**

[Primary cerebral lymphoma: atypical image] Madrid A, et al. **Rev Neurol** 1996 Oct;24(134):1301 **(Spa)**

[Intra-extracranial meningioma. Letter] Martínez-Mata AM, et al. **Rev Neurol** 1997 Jan;25(137):138–9 **(Spa)**

[Primary leptomeningeal melanomatosis in a 6-year-old child] Monsó G, et al. **Rev Neurol** 1996 Jan;24(125):87–90 (Eng. Abstr.) **(Spa)**

[Low grade disseminated astrocytoma in childhood] Pérez MJ, et al. **Rev Neurol** 1997 Jun;25(142):877–81 (Eng. Abstr.) **(Spa)**

[Posterior fossa tumors in children] Philips MF, et al. **Rev Neurol** 1997 Jun;25(142):927–41 (125 ref.) **(Spa)**

[Familial multiple cavernomatosis] Terriza F, et al. **Rev Neurol** 1997 Apr;25(140):560–2 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Examinations of the motor conduction time between the motor cortex and the Erb point in patients suffering from tumors of the central nervous system. Székely G Jr, et al. **Acta Biol Hung** 1996;47(1–4):419–26

In vivo estimation of water content in cerebral white matter of brain tumour patients and normal individuals: towards a quantitative brain oedema definition. Andersen C. **Acta Neurochir (Wien)** 1997;139(3):249–55; discussion 255–6

Prognostic factors in oligodendrogliomas. Westergaard L, et al. **Acta Neurochir (Wien)** 1997;139(7):600–5

Aqueduct compression from venous angioma: MR findings. Blackmore CC, et al. **AJNR Am J Neuroradiol** 1996 Mar; 17(3):458–60

Biophysical and pharmacological characterization of chloride currents in human astrocytoma cells. Ullrich N, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1511–21

Optic pathway gliomas in children with neurofibromatosis 1: consensus statement from the NF1 Optic Pathway Glioma Task Force. Listernick R, et al. **Ann Neurol** 1997 Feb;41(2):143–9

Interstitial fluid pressure in intracranial tumours in patients and in rodents. Boucher Y, et al. **Br J Cancer** 1997; 75(6):829–36

Frequency source analysis in patients with brain lesions. Harmony T, et al. **Brain Topogr** 1995 Winter;8(2):109–17

Somatosensory evoked potential identification of sensorimotor cortex in removal of intracranial neoplasms. Rowed DW, et al. **Can J Neurol Sci** 1997 May;24(2):116–20

Decreased multi-band posterior interhemispheric coherence with a lipoma on the corpus callosum: a case report of a possible association. Pinkofsky HB, et al. **Clin Electroencephalogr** 1997 Jul;28(3):155–9

Ictal speech arrest and parasagittal lesions. Wieshmann UC, et al. **Eur Neurol** 1997;38(2):123–7

Mechanotransducing ion channels in C6 glioma cells. Bowman CL, et al. **Glia** 1996 Nov;18(3):161–76

Establishment of spontaneously immortalized rat type 1 astroglial cell lines: the role of p53 in astroglial carcinogenesis. Hiraga S, et al. **Glia** 1996 Nov;18(3):185–99

Stimulation of glioma-cell migration by laminin and inhibition by anti-alpha3 and anti-beta1 integrin antibodies. Tysnes BB, et al. **Int J Cancer** 1996 Sep 17;67(6):777–84

Functional imaging in treatment planning of brain lesions. Hamilton RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):181–8

Testing the hypothalamic-pituitary-adrenal axis in survivors of childhood brain and skull-based tumors. Shankar RR, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1995–8

Mechanism of dexamethasone suppression of brain tumor-associated vascular permeability in rats. Involvement of the glucocorticoid receptor and vascular permeability factor. Heiss JD, et al. **J Clin Invest** 1996 Sep 15;98(6):1400–8

Diagnostic potential of laser-induced autofluorescence emission in brain tissue. Chung YG, et al. **J Korean Med Sci** 1997 Apr;12(2):135–42

Influence of ganglioside GM3 and high density lipoprotein on the cohesion of mouse brain tumor cells. Bai H, et al. **J Lipid Res** 1997 Jan;38(1):160–72

Characterization of p53 and p21 functional interactions in glioma cells en route to apoptosis. Gomez-Manzano C, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1036–44

Glial ontogeny and glial neoplasia: the search for closure. Linskey ME. **J Neurooncol** 1997 Aug;34(1):5–22 (136 ref.)

Effect of neurological dysfunction on health-related quality of life in patients with high-grade glioma. Osoba D, et al. **J Neurooncol** 1997 Sep;34(3):263–78

Action potential-generating cells in human glioblastomas. Labrakakis C, et al. **J Neuropathol Exp Neurol** 1997 Mar; 56(3):243–54

Neuromagnetic evaluation of cortical auditory function in patients with temporal lobe tumors. Nakasato N, et al. **J Neurosurg** 1997 Apr;86(4):610–8

Utility of relative cerebral blood volume mapping derived from perfusion magnetic resonance imaging in the routine follow up of brain tumors. Siegal T, et al. **J Neurosurg** 1997 Jan;86(1):22–7

Neuropsychological and neurophysiological consequences of partial callosotomy. Woiciechowsky C, et al. **J Neurosurg Sci** 1997 Mar;41(1):75–80

Pseudo-precocious puberty in a male patient and the melatonin-testosterone relationship. Luboshitzky R, et al. **J Pediatr Endocrinol Metab** 1995 Oct-Dec;8(4):295–9

Modulation of motility and proliferation of glioma cells by hepatocyte growth factor. Yamamoto S, et al. **Jpn J Cancer Res** 1997 Jun;88(6):564–77

Cerebral lymphoma in a patient with immunoglobulin paraproteinemic polyneuropathy [letter] Naccache L, et al. **Muscle Nerve** 1997 Jan;20(1):122–3

Neural generators of tibial nerve P30 somatosensory evoked potential studied in patients with a focal lesion of the cervicomedullary junction. Tinazzi M, et al. **Muscle Nerve** 1996 Dec;19(12):1538–48

Short-latency somatosensory evoked potentials in patients with brain stem tumor: study of N20 and N18 potentials. Fukuda M, et al. **Neurol Med Chir (Tokyo)** 1997 Jul; 37(7):525–31; discussion 531–2

Cerebral blood flow in normal brain tissue of patients with intracranial tumors. Nakayama Y, et al. **Neurol Med Chir (Tokyo)** 1996 Oct;36(10):709–14; discussion 714–5

Anterograde but not retrograde memory loss following combined mammillary body and medial thalamic lesions. Kapur N, et al. **Neuropsychologia** 1996 Jan;34(1):1–8

Human astrocytoma cells express a unique chloride current. Ullrich N, et al. **Neuroreport** 1996 Apr 10;7(5):1020–4

Progressive focal neurological dysfunction following experimental implantation glioma. Whittle IR, et al. **Neuroreport** 1997 Mar 24;8(5):1149–53

Biology of a brain metastasis. Walsh JW. **Neurosurg Clin N Am** 1996 Jul;7(3):369–76 (53 ref.)

Functional magnetic resonance imaging of regional brain activity in patients with intracerebral gliomas: findings and implications for clinical management. Atlas SW, et al. **Neurosurgery** 1996 Feb;38(2):329–38

Current concepts in neuro-oncology: the cell cycle--a review. Dirks PB, et al. **Neurosurgery** 1997 May; 40(5):1000–13; discussion 1013–5 (162 ref.)

Functional anatomic relationship between brain-stem tumors and cranial motor nuclei. Morota N, et al. **Neurosurgery** 1996 Oct;39(4):787–93; discussion 793–4

Functional magnetic resonance imaging mapping of the motor cortex in patients with cerebral tumors. Mueller WM, et al. **Neurosurgery** 1996 Sep;39(3):515–20; discussion 520–1

Preserved function in brain invaded by tumor. Ojemann JG, et al. **Neurosurgery** 1996 Aug;39(2):253–8; discussion 258–9

Control of vasogenic edema in a brain tumor model: comparison between dexamethasone and superoxide dismutase. Shoshan Y, et al. **Neurosurgery** 1996 Dec; 39(6):1206–13; discussion 1213–4

Effect of a chemical delivery system for dexamethasone (Dex-CDS) on peritumoral edema in an experimental brain tumor model. Siegal T, et al. **Pharm Res** 1997 May; 14(5):672–5

Transcranial Doppler ultrasonography in neurosurgery: effects of intracranial tumour on right middle cerebral artery flow velocity during induction of anaesthesia. Dong ML, et al. **Ultrasound Med Biol** 1996;22(9):1163–8

[Evaluation of cerebral blood flow and metabolism using PET scan] Suzuki A. **Nippon Rinsho** 1997 Mar;55 Suppl 1:330–3 (1 ref.) **(Jpn)**

[Auditory evoked magnetic fields in cases with temporal lobe glioma] Kanno A, et al. **No Shinkei Geka** 1996 Oct; 24(10):921–5 (Eng. Abstr.) **(Jpn)**

[Postoperative normalization of prolonged P100m latency in the visual evoked magnetic field in a patient with occipital meningioma] Kanno A, et al. **No To Shinkei** 1997 Apr; 49(4):373–6 (Eng. Abstr.) **(Jpn)**

[Analysis of pathologic activity in the EEG of patients with a brain tumor using three-dimensional "source" localization] Grindel' OM, et al. **Fiziol Cheloveka** 1997 Jul-Aug; 23(4):36–45 **(Rus)**

[Interhemispheric asymmetry in unilateral brain damage] Zdereva ZF, et al. **Patol Fiziol Eksp Ter** 1996 Apr-Jun; (2):6–9 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

The decrement of carcinogenesis by dietary selenium and expression of placental form of glutathione-S-transferase in rat glioma. Zhang Z, et al. **Biol Trace Elem Res** 1997 May;57(2):147–55

Prophylactic cranial irradiation for patients with small cell lung cancer. An enduring controversy. Wagner H Jr. **Chest Surg Clin N Am** 1997 Feb;7(1):151–66 (53 ref.)

Prophylactic cranial irradiation in small cell lung cancer (SCLC) makes a comeback [editorial] Gregor A. **Clin Oncol (R Coll Radiol)** 1997;9(3):148–9

Prophylactic cranial irradiation in limited stage small cell lung cancer: survival benefit in patients with favourable characteristics. Work E, et al. **Eur J Cancer** 1996 May; 32A(5):772–8

Randomized study of initial versus late chest irradiation

combined with chemotherapy in limited-stage small-cell lung cancer. Aarhus Lung Cancer Group [see comments] Work E, et al. **J Clin Oncol** 1997 Sep;15(9):3030-7. Comment in: J Clin Oncol 1997 Sep;15(9):3027-9.

Vaccine for brain tumors? [news] **J Neurosci Nurs** 1996 Aug; 28(4):275

Prophylactic cranial irradiation for small-cell lung cancer [letter; comment] Arriagada R, et al. **Lancet** 1997 Jan 11; 349(9045):138. Comment on: Lancet 1996 Aug 10;348(9024):350.

[Does prophylactic whole-brain irradiation in small-cell bronchial carcinoma at the "limited disease" stage improve overall survival?] Rübe C. **Strahlenther Onkol** 1996 Mar; 172(3):176-7 **(Ger)**

PSYCHOLOGY

Malignant cerebral glioma. Patients' awareness of prognosis may be confounded by successful coping mechanisms [letter; comment] Salander P, et al. **BMJ** 1997 Mar 22; 314(7084):900. Comment on: BMJ 1996 Dec 14;313(7071):1512-6.

Anxiety and depression in elderly patients receiving treatment for cerebral tumours. Kaplan CP, et al. **Brain Inj** 1997 Feb;11(2):129-35

Neocortical ectopias in BXSB mice: effects upon reference and working memory systems. Boehm GW, et al. **Cereb Cortex** 1996 Sep-Oct;6(5):696-700

Posterior fossa lesions associated with neuropsychiatric symptomatology. Pollak L, et al. **Int J Neurosci** 1996 Nov; 87(3-4):119-26

Quality of life in brain tumor patients. Giovagnoli AR, et al. **J Neurooncol** 1996 Oct;30(1):71-80

Stereotactic biopsy of nonpolar tumors in the dominant hemisphere: a prospective study of effects on language functions. Thomson AM, et al. **J Neurosurg** 1997 Jun; 86(6):923-6

Neuropsychological and neurophysiological consequences of partial callosotomy. Woiciechowsky C, et al. **J Neurosurg Sci** 1997 Mar;41(1):75-80

Adjustment in childhood brain tumor survival: child, mother, and teacher report. Radcliffe J, et al. **J Pediatr Psychol** 1996 Aug;21(4):529-39

The use of significant others as proxy raters of the quality of life of patients with brain cancer. Sneeuw KC, et al. **Med Care** 1997 May;35(5):490-506

Brain tumor support group: content themes and mechanisms of support. Leavitt MB, et al. **Oncol Nurs Forum** 1996 Sep; 23(8):1247-56

The development and psychometric validation of a brain cancer quality-of-life questionnaire for use in combination with general cancer-specific questionnaires. Osoba D, et al. **Qual Life Res** 1996 Feb;5(1):139-50

Neuropsychometric evaluation of long-term survivors of adult brain tumours: relationship with tumour and treatment parameters. Gregor A, et al. **Radiother Oncol** 1996 Oct;41(1):55-9

[Forensic psychiatric expertise in brain tumors] Lukacher Gla, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(5):43-6 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Histological heterogeneity of neuroradiologically suspected adult low grade gliomas detected by Xenon enhanced computerized tomography (CT). Roessler K, et al. **Acta Neurochir (Wien)** 1996;138(11):1341-7

CT and MR imaging in primary cerebral non-Hodgkin's lymphoma. Lanfermann H, et al. **Acta Radiol** 1997 Mar; 38(2):259-67

NMR perfusion and metabolic imaging and some examples on brain tumours. Bovée WM, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):675-89 (41 ref.)

Intra-axial endophytic tumors in the pons and/or medulla oblongata. I. Symptoms, neuroradiological findings, and histopathology in 30 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):122-34

Primary central nervous system lymphoma. A changeable tumor. Hu X, et al. **Chin Med J (Engl)** 1996 May; 109(5):414-6

Radiograph of the month. Pilocytic astrocytoma. Bose B. **Del Med J** 1996 Aug;68(8):397-8

Unusual appearance of an intracranial metastatic adenoid cystic carcinoma: comedo-necrosis showed very hyperdense nodules on CT scans. Lee SH, et al. **Eur J Radiol** 1997 Jul;25(1):41-3

A flight of fantasy: false memories in frontal lobe disease [letter] De Villiers C, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):652-3

Histological surprise: callosal tuberculoma presenting as malignant glioma. Fath-Ordoubadi F, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):98-9

Anaplastic (malignant) ganglioglioma arising from heterotopic grey matter nodules. Demaerel P, et al. **J Neurooncol** 1996 Dec;30(3):237-42

Clinical and radiographic stabilization of intracranial glioblastoma. Report of a case treated after surgery with tamoxifen. Mastronardi L, et al. **J Neurosurg Sci** 1996 Jun; 40(2):129-33

Angiographic findings associated with intra-axial intracranial tumors. Masters LT, et al. **Neuroimaging Clin N Am** 1996 Aug;6(3):739-49 (48 ref.)

Complications of diagnostic cerebral angiography and tips on avoidance. Pryor JC, et al. **Neuroimaging Clin N Am** 1996 Aug;6(3):751-8 (46 ref.)

Imaging of cerebral metastases. Schaefer PW, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):393-423 (132 ref.)

High-grade astrocytomas in children: radiologically complete resection is associated with an excellent long-term prognosis. Campbell JW, et al. **Neurosurgery** 1996 Feb;38(2):258-64

Glioblastoma multiforme: radiologic-pathologic correlation. Rees JH, et al. **Radiographics** 1996 Nov;16(6):1413-38; quiz 1462-3

Preoperative and postoperative follow-up in high-grade gliomas: comparison of transcranial color-coded real-time sonography and computed tomography findings. Becker G, et al. **Ultrasound Med Biol** 1995;21(9):1123-35

[CT of primary cerebral lymphoma in non-immunosuppressed patients] Thomsen IB, et al. **Ugeskr Laeger** 1997 May 12;159(20):3021-4 (Eng. Abstr.) **(Dan)**

[Determination of blood circulation time for optimizing contrast medium administration in CT angiography] Puskás Z, et al. **Radiologe** 1996 Sep;36(9):750-7 (Eng. Abstr.) **(Ger)**

[Estimation of radiation exposure in interventional neuroradiology of the head in children compared to exposure of adult patients] Hentschel F, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):176-80 (Eng. Abstr.) **(Ger)**

[A case of multiple intracranial meningiomas] Lysakowska-Sernicka K, et al. **Pol Merkuriusz Lek** 1996 Dec;1(6):419-20 (Eng. Abstr.) **(Pol)**

[Differential diagnosis of posterior cranial fossa: potentialities and unsolved problems] Trofimova TN, et al. **Vestn Rentgenol Radiol** 1997 Jul-Aug;(4):4-8 (Eng. Abstr.) **(Rus)**

[A computed tomographic study of epilepsy in children: the primary diagnosis of a brain tumor] Alikhanov AA, et al. **Zh Nevrol Psikhiatr Im S S Korsakova** 1997;97(8):13-7 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Noninvasive differentiation of meningiomas from other brain tumours using combined 111Indium-octreotide/99mtechnetium-DTPA brain scintigraphy. Barth A, et al. **Acta Neurochir (Wien)** 1996; 138(10):1179-85

Central nervous system lymphoma not detectable on single-photon emission CT with thallium 201. Fisher DC, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1687-90

Single-photon emission CT in the evaluation of recurrent brain tumor in patients treated with gamma knife radiosurgery or conventional radiation therapy. Kline JL, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1681-6

Clinical positron emission tomography for brain tumors: comparison of fludeoxyglucose F 18 and L-methyl-11C-methionine. Ogawa T, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):345-53

Cerebral radiation necrosis with accumulation of thallium 201 on single-photon emission CT. Yoshii Y, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1773-6

Usefulness of Ga-67 brain SPECT in patients with CNS malignant lymphoma. Fujii H, et al. **Ann Nucl Med** 1996 Nov;10(4):391-4

Uptake of radioactive octanoate in astrocytoma cells: basic studies for application of [11C]octanoate as a PET tracer. Yamazaki S, et al. **Ann Nucl Med** 1996 Nov;10(4):395-9

Somatostatin receptor scintigraphy of non-neuroendocrine malignancies with 111In-pentetreotide. Limouris GS, et al. **Anticancer Res** 1997 May-Jun;17(3B):1593-7

Radiolabeling of epidermal growth factor with 99mTc and in vivo localization following intracerebral injection into normal and glioma-bearing rats. Capala J, et al. **Bioconjug Chem** 1997 May-Jun;8(3):289-95

Intracranial chondroma. Report of two cases and review of the literature. Lacerte D, et al. **Can J Neurol Sci** 1996 May; 23(2):132-7

18-Fluorodeoxyglucose uptake and survival of patients with suspected recurrent malignant glioma. Barker FG 2nd, et al. **Cancer** 1997 Jan 1;79(1):115-26

Positron emission tomography: new hope for early detection of recurrent brain tumors. Garner CM. **Cancer Nurs** 1997 Aug;20(4):277-84 (20 ref.)

Target imaging diagnosis of human brain glioma. Clinical analysis of 40 cases. Huang Q, et al. **Chin Med J (Engl)** 1996 Jan;109(1):93-6

Impact of fluorodeoxyglucose positron emission tomography on the clinical management of patients with glioma. Deshmukh A, et al. **Clin Nucl Med** 1996 Sep;21(9):720-5

Unexpected detection of an astrocytoma by poorly labeled Tc-99m HMPAO. Giordano A, et al. **Clin Nucl Med** 1996 Sep;21(9):741-2

Intracranial malignant fibrous histiocytoma with increased uptake on Tl-201 imaging. Hayashi Y, et al. **Clin Nucl Med** 1996 Dec;21(12):1007

C-11 methionine and F-18 FDG uptake in a patient with meningioma and glioblastoma multiforme. Korkmaz M, et al. **Clin Nucl Med** 1996 Jul;21(7):580-2

Tc-99m sestamibi SPECT imaging of a brain metastasis in a man with lung tumor and increased sexual activity. Mira ML, et al. **Clin Nucl Med** 1996 Sep;21(9):745-6

TI-201 uptake in an intracranial primary malignant melanoma. Miyazaki T, et al. **Clin Nucl Med** 1996 Jul; 21(7):572

TI-201 chloride and Tc-99m ECD brain SPECT in lymphoma with and without massive necrosis. Shih WJ, et al. **Clin Nucl Med** 1997 Jun;22(6):427-30

Delineation and quantitation of brain lesions by fuzzy clustering in positron emission tomography. Boudraa AE, et al. **Comput Med Imaging Graph** 1996 Jan-Feb;20(1):31-41

Early delineation of cerebral glioma using amino acid positron tracers. Mineura K, et al. **Comput Med Imaging Graph** 1997 Jan-Feb;21(1):63-6

Uptake of iodine-123-alpha-methyl tyrosine by gliomas and non-neoplastic brain lesions. Kuwert T, et al. **Eur J Nucl Med** 1996 Oct;23(10):1345-53

Non-invasive grading of primary brain tumours: results of a comparative study between SPET with 123I-alpha-methyl tyrosine and PET with 18F-deoxyglucose. Woesler B, et al. **Eur J Nucl Med** 1997 Apr;24(4):428-34

Functional imaging in treatment planning of brain lesions. Hamilton RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):181-8

Indications for differential diagnosis of nontumor central nervous system diseases from tumors. A positron emission tomography study. Mineura K, et al. **J Neuroimaging** 1997 Jan;7(1):8-15

In vivo diagnosis of human malignant melanoma with positron emission tomography using specific melanoma-seeking 18F-DOPA analogue. Mishima Y, et al. **J Neurooncol** 1997 May;33(1-2):163-9

Thallium-201-SPECT and 99Tc-HM-PAO SPECT imaging to study functionally cerebral supratentorial neoplasms: the biological basis of the functional imaging interpretation. Zingale A, et al. **J Neurosurg Sci** 1995 Dec;39(4):227-35

Proliferative activity in human brain tumors: comparison of histopathology and L-[1-(11)C]tyrosine PET. de Wolde H, et al. **J Nucl Med** 1997 Sep;38(9):1369-74

FDG hypermetabolism associated with inflammatory necrotic changes following radiation of meningioma. Fischman AJ, et al. **J Nucl Med** 1997 Jul;38(7):1027-9

Regional methionine and glucose uptake in high-grade gliomas: a comparative study on PET-guided stereotactic biopsy. Goldman S, et al. **J Nucl Med** 1997 Sep; 38(9):1459-62

PET imaging of brain tumor with [methyl-11C]choline. Hara T, et al. **J Nucl Med** 1997 Jun;38(6):842-7

F-Dopa as an amino acid tracer to detect brain tumors. Heiss WD, et al. **J Nucl Med** 1996 Jul;37(7):1180-2

Differentiating histologic malignancy of primary brain tumors: pentavalent technetium-99m-DMSA. Hirano T, et al. **J Nucl Med** 1997 Jan;38(1):20-6

3-[123I]iodo-alpha-methyltyrosine and [methyl-11C]-L-methionine uptake in cerebral gliomas: a comparative study using SPECT and PET. Langen KJ, et al. **J Nucl Med** 1997 Apr;38(4):517-22

Discordant uptake of MIBI and HMPAO [letter; comment] Lass P. **J Nucl Med** 1997 May;38(5):828. Comment on: J Nucl Med 1996 Jul;37(7):1183-5.

The role of thallium-201 uptake and retention in intracranial tumors after radiotherapy. Lorberboym M, et al. **J Nucl Med** 1997 Feb;38(2):223-6

Independent thallium-201 accumulation and fluorine-18-fluorodeoxyglucose metabolism in glioma. Oriuchi N, et al. **J Nucl Med** 1996 Mar;37(3):457-62

Discrepancies between HMPAO and ECD SPECT imaging in brain tumors. Papazyan JP, et al. **J Nucl Med** 1997 Apr; 38(4):592-6

Fluorine-18-FDG PET and iodine-123-IMT SPECT in the evaluation of brain tumors. Weber W, et al. **J Nucl Med** 1997 May;38(5):802-8

Imaging of cerebral metastases. Schaefer PW, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):393-423 (132 ref.)

The in vivo metabolic pattern of low-grade brain gliomas: a positron emission tomographic study using 18F-fluorodeoxyglucose and 11C-L-methylmethionine. Derlon JM, et al. **Neurosurgery** 1997 Feb;40(2):276-87; discussion 287-8

Prognostic value positron emission tomography with [18F]fluoro-2-deoxy-D-glucose in the low-grade glioma. De Witte O, et al. **Neurosurgery** 1996 Sep;39(3):470-6; discussion 476-7

Radioimaging of human glioma by indium-111 labeled G-22 anti-glioma monoclonal antibody. Wakabayashi T, et al. **Noshuyo Byori** 1995;12(2):105-10

Correlation of histopathological factor of brain tumor and high thallium-201 uptake in single photon emission computed tomography. Yoshii Y, et al. **Noshuyo Byori** 1996 Apr;13(1):61-5

Liposomal distribution in malignant glioma: possibilities for therapy. Khalifa A, et al. **Nucl Med Commun** 1997 Jan; 18(1):17-23

Influence of size of regions of interest on the measurement of uptake of 123I-alpha-methyl tyrosine by brain tumours. Kuwert T, et al. **Nucl Med Commun** 1996 Jul;17(7):609-15

Discordant technetium-99m HMPAO and thallium-201 chloride distribution in brain tumors. Kamisaki Y, et al. **Radiat Med** 1996 May-Jun;14(3):155-8

Brain tumors: detection with C-11 choline PET. Shinoura N, et al. **Radiology** 1997 Feb;202(2):497-503

Positron emission tomography using 18F-fluorodeoxyglucose in patients with stereotactically irradiated brain metastases. Ericson K, et al.

Stereotact Funct Neurosurg 1996;66 Suppl 1:214–24

[Follow up control of stage IV neuroblastoma: 123I-MIBG scintigraphy, bone scintigraphy and catecholamine metabolites (published erratum appears in Nuklearmedizin 1997 Jan;36(1):60)] Kohnert K, et al. **Nuklearmedizin** 1996 Dec;35(6):220–4 (Eng. Abstr.) **(Ger)**

[Diagnostic value of high N-isopropyl-p-[123I] iodoamphetamine (IMP) uptake in brain tumors] Fukahori T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan; 56(1):53–9 (Eng. Abstr.) **(Jpn)**

[Evaluation of 99mTc-ECD SPECT for the detection of brain tumor: comparison with 201TI SPECT] Oshima M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):52–7 (Eng. Abstr.) **(Jpn)**

[Changes in metabolism and peritumoral circulation after radiosurgery of metastatic brain tumors: evaluation by three dimensional dual isotope SPECT] Sugo N, et al. **No Shinkei Geka** 1997 Jun;25(6):515–21 (Eng. Abstr.) **(Jpn)**

[Cerebral SPECT with thallium-201 in the differential diagnosis of focal cerebral lesions in patients with AIDS] Sanjaume M, et al. **Enferm Infecc Microbiol Clin** 1997 Jan; 15(1):28–31 (Eng. Abstr.) **(Spa)**

RADIOTHERAPY

Pharmacokinetics of Na2B12H11SH (BSH) in patients with malignant brain tumours as prerequisite for a phase I clinical trial of boron neutron capture. Gabel D, et al. **Acta Neurochir (Wien)** 1997;139(7):606–11; discussion 611–2

Brain tumors. Blomgren H. **Acta Oncol** 1996;35 Suppl 7:16–21

5-[125]iodo-2'-deoxyuridine in the radiotherapy of solid CNS tumors in rats. Kassis AI, et al. **Acta Oncol** 1996; 35(7):935–9

The role of hyperfractionated re-irradiation in metastatic brain disease: a single institutional trial. Abdel-Wahab MM, et al. **Am J Clin Oncol** 1997 Apr;20(2):158–60

Imaging of boron in tissue at the cellular level for boron neutron capture therapy. Arlinghaus HF, et al. **Anal Chem** 1997 Aug 15;69(16):3169–76

External beam radiation enhances antibody mediated radiocytotoxicity in human glioma cells in vitro. Bender H, et al. **Anticancer Res** 1997 May-Jun;17(3B):1797–802

Critical evaluation of bispecific antibodies as targeting agents for boron neutron capture therapy of brain tumors. Liu L, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2581–7

Secondary tumours after prophylactic cranial irradiation. Leung J, et al. **Australas Radiol** 1996 Feb;40(1):43–4

Radiation therapy in the management of malignant gliomas. Brada M, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):319–43 (129 ref.)

Malignant cerebral glioma. Modern radiotherapy can give good quality survival for six months [letter; comment] Brada M, et al. **BMJ** 1997 Mar 22;314(7084):899. Comment on: BMJ 1996 Dec 14;313(7071):1507–12.

Malignant cerebral glioma. Modern radiotherapy techniques are needed to spare normal brain tissue [letter; comment] Burnet NG, et al. **BMJ** 1997 Mar 22;314(7084):900–1. Comment on: BMJ 1996 Dec 14;313(7071):1507–12. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.

Malignant cerebral glioma. A relative's perspective [letter; comment] Chappell J. **BMJ** 1997 Mar 22; 314(7084):899–900; discussion 901. Comment on: BMJ 1996 Dec 14;313(7071):1507–12. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.

Malignant cerebral glioma--II: Perspectives of patients and relatives on the value of radiotherapy [see comments] Davies E, et al. **BMJ** 1996 Dec 14;313(7071):1512–6. Comment in: BMJ 1996 Dec 14;313(7071):1500–1. Comment in: BMJ 1997 Mar 22;314(7084):899; discussion 901. Comment in: BMJ 1997 Mar 22;314(7084):899–900; discussion 901. Comment in: BMJ 1997 Mar 22;314(7084):900. Comment in: BMJ 1997 Mar 22;314(7084):900–1.

Malignant cerebral glioma--I: Survival, disability, and morbidity after radiotherapy [see comments] Davies E, et al. **BMJ** 1996 Dec 14;313(7071):1507–12. Comment in: BMJ 1996 Dec 14;313(7071):1500–1. Comment in: BMJ 1997 Mar 22;314(7084):899. Comment in: BMJ 1997 Mar 22;314(7084):899–900; discussion 901. Comment in: BMJ 1997 Mar 22;314(7084):900–1.

Radiotherapy for malignant glioma [editorial; comment] Gregor A, et al. **BMJ** 1996 Dec 14;313(7071):1500–1. Comment on: BMJ 1996 Dec 14;313(7071):1507–12. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.

A pilot study of concurrent whole-brain radiotherapy and chemotherapy combined with cisplatin, vindesine and mitomycin in non-small-cell lung cancer with brain metastasis. Furuse K, et al. **Br J Cancer** 1997;75(4):614–8

Boron neutron capture therapy. Beddoe AH. **Br J Radiol** 1997 Jul;70(835):665–7

Fast neutrons in the treatment of grade IV astrocytomas. Breteau N, et al. **Bull Cancer Radiother** 1996;83 Suppl:135s–41s (42 ref.)

The role of palliative radiotherapy for brain metastases. Paszat L, et al. **Can J Oncol** 1996 Feb;6 Suppl 1:48–53 (37 ref.)

Thyroid dysfunction as a late effect in survivors of pediatric medulloblastoma/primitive neuroectodermal tumors: a comparison of hyperfractionated versus conventional radiotherapy. Chin D, et al. **Cancer** 1997 Aug 15; 80(4):798–804

Gliomatosis cerebri. Results with radiation therapy. Cozad SC, et al. **Cancer** 1996 Oct 15;78(8):1789–93

A randomized trial to assess the efficacy of surgery in addition to radiotherapy in patients with a single cerebral metastasis. Mintz AH, et al. **Cancer** 1996 Oct 1;78(7):1470–6

Boron neutron capture therapy of brain tumors: past history, current status, and future potential. Barth RF, et al. **Cancer Invest** 1996;14(6):534–50 (144 ref.)

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of either sodium borocaptate or boronophenylalanine with or without blood-brain barrier disruption. Barth RF, et al. **Cancer Res** 1997 Mar 15;57(6):1129–36

Local delivery of chemotherapy and concurrent external beam radiotherapy prolongs survival in metastatic brain tumor models. Ewend MG, et al. **Cancer Res** 1996 Nov 15;56(22):5217–23

A short fractionation radiotherapy treatment for poor prognosis patients with high grade glioma. Ford JM, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):20–4

Final results of the Royal College of Radiologists' trial comparing two different radiotherapy schedules in the treatment of cerebral metastases [letter; comment] Jones B, et al. **Clin Oncol (R Coll Radiol)** 1997;9(2):134–5. Comment on: Clin Oncol (R Coll Radiol) 1996;8(5):308–15.

Final results of the Royal College of Radiologists' trial comparing two different radiotherapy schedules in the treatment of cerebral metastases [see comments] Priestman TJ, et al. **Clin Oncol (R Coll Radiol)** 1996;8(5):308–15. Comment in: Clin Oncol (R Coll Radiol) 1997;9(2):134–5.

Radiotherapy and chemotherapy for gliomas. Delattre JY, et al. **Curr Opin Oncol** 1996 May;8(3):196–203 (76 ref.)

Multivariate analysis of prognostic factors in 106 patients with malignant glioma. Salminen E, et al. **Eur J Cancer** 1996 Oct;32A(11):1918–23

Malignant brain tumors treated with IORT. Gouda J, et al. **Front Radiat Ther Oncol** 1997;31:87–91

A new method for treatment planning and quality control in IORT of brain tumors. Prott FJ, et al. **Front Radiat Ther Oncol** 1997;31:97–101

IORT for malignant brain tumors. Willich N, et al. **Front Radiat Ther Oncol** 1997;31:93–6

Fractionated stereotactic radiotherapy. Shrieve DC, et al. **Important Adv Oncol** 1996;:205–24 (67 ref.)

Hyperfractionated craniospinal radiotherapy and adjuvant chemotherapy for children with newly diagnosed medulloblastoma and other primitive neuroectodermal tumors. Allen JC, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1155–61

Radiation and chemotherapy improve outcome in oligodendroglioma. Allison RR, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):399–403

Is there a future for neutron capture therapy? [editorial] [see comments] Bartelink H, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):267–8. Comment in: Int J Radiat Oncol Biol Phys 1997 Jul 1;38(4):908. Comment in: Int J Radiat Oncol Biol Phys 1997 Jul 15;38(5):1139–40.

Reirradiation of primary CNS tumors. Bauman GS, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):433–41

Comparison of two head and neck immobilization systems. Bentel GC, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):867–73

Neon heavy charged particle radiotherapy of glioblastoma of the brain. Castro JR, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):257–61

Quality of life and neuropsychological evaluation for patients with malignant astrocytomas: RTOG 91-14. Radiation Therapy Oncology Group. Choucair AK, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):9–20

Benign meningiomas: primary treatment selection affects survival. Condra KS, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):427–36

Dose estimation to critical organs from vertex field treatment of brain tumors. Das IJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1023–9

Selection of coplanar or noncoplanar beams using three-dimensional optimization based on maximum beam separation and minimized nontarget irradiation. Das SK, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):643–55

Recursive partitioning analysis (RPA) of prognostic factors in three Radiation Therapy Oncology Group (RTOG) brain metastases trials. Gaspar L, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):745–51

p53-dependent G1 arrest and p53-independent apoptosis influence the radiobiologic response of glioblastoma. Haas-Kogan DA, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):95–103

Radiation therapy for histologically confirmed primary central nervous system germinoma. Haddock MG, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):915–23

Intracranial germinoma: the case for lower dose radiation therapy. Hardenbergh PH, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):419–26

A randomized trial on dose-response in radiation therapy of low-grade cerebral glioma: European Organization for Research and Treatment of Cancer (EORTC) Study 22844. Karim AB, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):549–56

A comparison of survival of patients treated for AIDS-related central nervous system lymphoma with and without tissue diagnosis. Kaufmann T, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):429–32 (16 ref.)

Short course radiotherapy is an appropriate option for most malignant glioma patients. Kleinberg L, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):31–6

Boron neutron capture therapy (BNCT) for high-grade gliomas of the brain: a cautionary note [see comments] Laramore GE, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):241–6. Comment in: Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):267–8.

UKCCSG study of accelerated radiotherapy for pediatric brain stem gliomas. United Kingdom Childhood Cancer Study Group. Lewis J, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):925–9

Proton therapy for pediatric cranial tumors: preliminary report on treatment and disease-related morbidities. McAllister B, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):455–60

Potential role of proton therapy in the treatment of pediatric medulloblastoma/primitive neuroectodermal tumors: reduction of the supratentorial target volume. Miralbell R, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):477–84

Potential role of proton therapy in the treatment of pediatric medulloblastoma/primitive neuro-ectodermal tumors: spinal theca irradiation. Miralbell R, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):805–11

Tumor-related prognostic factors for remission of brain metastases after radiotherapy. Nieder C, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):25–30

Large intracranial vessel occlusive vasculopathy after radiation therapy in children: clinical features and usefulness of magnetic resonance imaging. Omura M, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):241–9

Pion radiation for high grade astrocytoma: results of a randomized study. Pickles T, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):491–7

Prognosis of intracranial germinoma with syncytiotrophoblastic giant cells treated by radiation therapy. Shibamoto Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):505–10

Analysis of long-term treatment of intracranial germinoma. Shirato H, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):511–5

Stereotactic irradiation without whole-brain irradiation for single brain metastasis. Shirato H, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):385–91

Hyperfractionated radiotherapy of human tumors: overview of the randomized clinical trials. Stuschke M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):259–67

Initial experience with intensity-modulated conformal radiation therapy for treatment of the head and neck region. Verellen D, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):99–114

External radiation of brain metastases from renal carcinoma: a retrospective study of 119 patients from the M. D. Anderson Cancer Center. Wrónski M, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):753–9

The effect of M-stage on patterns of failure in posterior fossa primitive neuroectodermal tumors treated on CCG-921: a phase III study in a high-risk patient population. Yao MS, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):469–76

Alterations of lactate (+lipid) concentration in brain tumors with in vivo hydrogen magnetic resonance spectroscopy during radiotherapy. Tomoi M, et al. **Invest Radiol** 1997 May;32(5):288–96

Short-term CT and MR changes in brain tumors following 125I interstitial irradiation. Moringlane JR, et al. **J Comput Assist Tomogr** 1997 Jan-Feb;21(1):15–21

Evolution of growth hormone neurosecretory disturbance after cranial irradiation for childhood brain tumours: a prospective study. Spoudeas HA, et al. **J Endocrinol** 1996 Aug;150(2):329–42

Remotely controllable temporary afterloading brachytherapy for malignant brain tumors. Chiou TS. **J Formos Med Assoc** 1997 Jun;96(6):465–8

Preliminary experiences with intraoperative radiation therapy (IORT) for the treatment of brain tumors. Chung YG, et al. **J Korean Med Sci** 1995 Dec;10(6):449–52

Irradiation induced osteosarcoma in the posterior cranial fossa six years after surgery and radiation for medulloblastoma [letter] Koot RW, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):429–30

Boron neutron capture therapy of brain tumors--current status and future prospects. Barth RF, et al. **J Neurooncol** 1997 May;33(1-2):3–7

Early chemotherapy and concurrent radio-chemotherapy in high grade glioma. Brandes AA, et al. **J Neurooncol** 1996 Dec;30(3):247–55

Boron neutron capture enhanced fast neutron radiotherapy for malignant gliomas and other tumors. Buchholz TA, et al. **J Neurooncol** 1997 May;33(1-2):171–8 (22 ref.)

Boron neutron capture therapy for glioblastoma multiforme using p-boronophenylalanine and epithermal neutrons: trial design and early clinical results. Coderre JA, et al. **J Neurooncol** 1997 May;33(1-2):141–52

Strategic planning workshop on research needs for neutron capture therapy. Feinendegen LE. **J Neurooncol** 1997 May; 33(1-2):179–85

Late sequelae of treated pleomorphic xanthoastrocytoma: malignant brain stem astrocytoma occurring 15 years after radiation therapy. Fuller GN, et al. **J Neurooncol** 1997 Mar; 32(1):57–61

The role of boron MRI in boron neutron capture therapy. Kabalka GW, et al. **J Neurooncol** 1997 May;33(1–2):153–61

Pharmacokinetics and boron uptake of BSH (Na2B12H11SH) in patients with intracranial tumors. Kageji T, et al. **J Neurooncol** 1997 May;33(1–2):117–30

Early vs. delayed radiotherapy in a small cohort of patients with supratentorial low grade glioma. Knisely JP, et al. **J Neurooncol** 1997 Aug;34(1):23–9

The requirements and development of neutron beams for neutron capture therapy of brain cancer. Moss RL, et al. **J Neurooncol** 1997 May;33(1–2):27–40 (41 ref.)

Boron neutron capture therapy. Clinical brain tumor studies. Nakagawa Y, et al. **J Neurooncol** 1997 May;33(1–2):105–15

Binding and distribution of Na2B12H11SH on cellular and subcellular level in tumor tissue of glioma patients in boron neutron capture therapy. Otersen B, et al. **J Neurooncol** 1997 May;33(1–2):131–9

Permanent low–activity iodine–125 implants for cerebral metastases. Schulder M, et al. **J Neurooncol** 1997 Jul; 33(3):213–21

The rationale and requirements for the development of boron neutron capture therapy of brain tumors. Soloway AH, et al. **J Neurooncol** 1997 May;33(1–2):9–18 (43 ref.)

Cranial radiation and concomitant cisplatin and mitomycin–C plus resistance modulators for malignant gliomas. Stewart DJ, et al. **J Neurooncol** 1997 Apr;32(2):161–8

Early history of development of boron neutron capture therapy of tumors. Sweet WH. **J Neurooncol** 1997 May; 33(1–2):19–26 (42 ref.)

Recent trends in the radiotherapy of pediatric gliomas. Tarbell NJ, et al. **J Neurooncol** 1996 May–Jun; 28(2–3):233–44 (47 ref.)

Implantable biodegradable polymers for IUdR radiosensitization of experimental human malignant glioma. Williams JA, et al. **J Neurooncol** 1997 May;32(3):181–92

Enhanced survival of glioma bearing rats following boron neutron capture therapy with blood–brain barrier disruption and intracarotid injection of boronophenylalanine. Yang W, et al. **J Neurooncol** 1997 May;33(1–2):59–70

Atypical monoclonal plasma cell hyperplasia: its identity and treatment. Case report. Hsiang JN, et al. **J Neurosurg** 1996 Oct;85(4):697–700

Anaplastic ependymoma: treatment of pediatric patients with or without craniospinal radiation therapy. Merchant TE, et al. **J Neurosurg** 1997 Jun;86(6):943–9

Serial proton magnetic resonance spectroscopy imaging of glioblastoma multiforme after brachytherapy. Wald LL, et al. **J Neurosurg** 1997 Oct;87(4):525–34

The role of thallium–201 uptake and retention in intracranial tumors after radiotherapy. Lorberboym M, et al. **J Nucl Med** 1997 Feb;38(2):223–6

Brain relapses in chemotherapy–treated small cell lung cancer: a retrospective review of two time–dose regimens of therapeutic brain irradiation. Bach F, et al. **Lung Cancer** 1996 Sep;15(2):171–81

The use of a partial transmission shield to reduce the optic chiasm doses during radiation therapy treatment of brain tumors. Pickett B, et al. **Med Dosim** 1996 Winter; 21(4):243–50

Relapse of intracranial germinoma 23 years postirradiation in a patient given growth hormone replacement. Kiltie AE, et al. **Med Pediatr Oncol** 1997 Jul;29(1):41–4

An improved neutron collimator for brain tumor irradiations in clinical boron neutron capture therapy. Liu HB, et al. **Med Phys** 1996 Dec;23(12):2051–60

Clinical problem solving: when too much is too little [letter; comment] Kadish SP, et al. **N Engl J Med** 1997 May 15; 336(20):1459. Comment on: N Engl J Med 1996 Dec 5;335(23):1755–9.

Frequent and frequently overlooked: treatment–induced endocrine dysfunction in adult long–term survivors of primary brain tumors. Arlt W, et al. **Neurology** 1997 Aug; 49(2):498–506

Malignant supratentorial glioma in the elderly: is radiotherapy useful? Meckling S, et al. **Neurology** 1996 Oct; 47(4):901–5

Interstitial brachytherapy for intracranial metastases. McDermott MW, et al. **Neurosurg Clin N Am** 1996 Jul; 7(3):485–95

Radiotherapy for cerebral metastases. Sneed PK, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):505–15 (48 ref.)

A model for experimental interstitial radiotherapy using intracerebral D–54MG glioma xenografts in athymic mice. Lippitz BE. **Neurosurg Rev** 1995;18(4):259–64

Complete disappearance of giant intracranial germinoma after irradiation. Rainov NG, et al. **Neurosurg Rev** 1995; 18(4):285–92

Na2B12H11SH (BSH) in combination with systemic hyaluronidase: a promising concept for boron neutron capture therapy for glioblastoma. Haselsberger K, et al. **Neurosurgery** 1996 Aug;39(2):321–5; discussion 325–6

Occult cerebrovascular malformations after irradiation. Pozzati E, et al. **Neurosurgery** 1996 Oct;39(4):677–82; discussion 682–4

Effects of iodine–125 brachytherapy on the proliferative capacity and histopathological features of glioblastoma recurring after initial therapy. Siddiqi SN, et al. **Neurosurgery** 1997 May;40(5):910–7; discussion 917–8

Enhanced delivery of boronophenylalanine for neutron capture therapy by means of intracarotid injection and blood–brain barrier disruption. Yang W, et al. **Neurosurgery** 1996 May;38(5):985–92

Repeating hemorrhage with a long duration after radiotherapy for glioma: radiological and histological observations. Kawano H, et al. **Noshuyo Byori** 1996 Apr; 13(1):85–92

Comparison of the targeting characteristics of various radioimmunoconjugates for radioimmunotherapy of neuroblastoma: dosimetry calculations incorporating cross–organ beta doses. Ugur O, et al. **Nucl Med Biol** 1996 Jan;23(1):1–8

Tumor necrosis factor–alpha enhances antitumor effects of radiation against glioma xenografts. Gridley DS, et al. **Oncol Res** 1997;9(5):217–27

Gamma knife radiosurgery in children. Baumann GS, et al. **Pediatr Neurosurg** 1996;24(4):193–201

Hyperfractionated radiotherapy for diffuse intrinsic brain stem tumors in children. Freeman CR. **Pediatr Neurosurg** 1996;24(2):103–10

Brain stem gliomas: therapeutic options at time of recurrence. Packer RJ. **Pediatr Neurosurg** 1996;24(4):211–6 (21 ref.)

Long–term follow–up after high–activity 125I brachytherapy for pediatric brain tumors. Sneed PK, et al. **Pediatr Neurosurg** 1996 Jun;24(6):314–22

p53 protein expression and radiation–induced apoptosis in human tumors transplanted to nude mice. Hasegawa M, et al. **Radiat Med** 1997 May–Jun;15(3):171–6

Easy method for defining intracranial target volumes on orthogonal simulation films using magnetic resonance images. Goldwein JW, et al. **Radiat Oncol Investig** 1997; 5(1):38–42

Low–grade astrocytoma: treatment with conventionally fractionated stereotactic radiation therapy. van Kampen M, et al. **Radiology** 1996 Oct;201(1):275–8

Hyperfractionated and accelerated radiation therapy in central nervous system tumors (malignant gliomas, pediatric tumors, and brain metastases). Fallai C, et al. **Radiother Oncol** 1997 Jun;43(3):235–46 (93 ref.)

Neuropsychometric evaluation of long–term survivors of adult brain tumours: relationship with tumour and treatment parameters. Gregor A, et al. **Radiother Oncol** 1996 Oct;41(1):55–9

Radiotherapy of intracranial germinomas. Huh SJ, et al. **Radiother Oncol** 1996 Jan;38(1):19–23

Radiation therapy of intracranial malignant melanoma. Isokangas OP, et al. **Radiother Oncol** 1996 Feb;38(2):139–44

The risk of interstitial radiotherapy of low–grade gliomas. Kreth FW, et al. **Radiother Oncol** 1997 Jun;43(3):253–60

Accelerated radiotherapy with carbogen and nicotinamide (ARCON) in high grade malignant gliomas [letter; comment] Lambin P, et al. **Radiother Oncol** 1997 Jun; 43(3):324. Comment on: Radiother Oncol 1996 Sep;40(3):245–7.

Primary lymphoma of brain: results of management of a modern cohort with radiation therapy. Laperriere NJ, et al. **Radiother Oncol** 1997 Jun;43(3):247–52

Entrance and exit dose measurements with semiconductors and thermoluminescent dosemeters: a comparison of methods and in vivo results. Loncol T, et al. **Radiother Oncol** 1996 Nov;41(2):179–87

Quality assurance procedures in radiotherapy of brain tumors. De Santis M, et al. **Rays** 1996 Oct–Dec;21(4):590–9 **(Eng, Ita)**

Interstitial brachytherapy procedures for brain tumors. Sneed PK, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):157–66 (50 ref.)

High–dose–rate brachytherapy for poor–prognosis, high–grade glioma: (phase II) preliminary results. Micheletti E, et al. **Tumori** 1996 Jul–Aug;82(4):339–44

[Iridium 192 brachytherapy of supra–tentorial high grade glioma recurring in irradiated areas: technique and preliminary results of the Pitié–Salpêtrière hospital group] Boisserie G, et al. **Bull Cancer Radiother** 1996;83(3):144–52 (20 ref.) (Eng. Abstr.) **(Fre)**

[Radiotherapy of glioblastoma] de Crevoisier R, et al. **Cancer Radiother** 1997;1(3):194–207 (106 ref.) (Eng. Abstr.) **(Fre)**

[Morphologic MR imaging with T1–weighted sequences for radiotherapy goal volume definition of intracranial tumors. Comparison with FLASH–Turbo–FLASH and SE sequences] Hawighorst H, et al. **Radiologe** 1997 Mar; 37(3):243–50 (Eng. Abstr.) **(Ger)**

[Radiotherapy of primary cerebral non–Hodgkin's lymphoma] Micke O, et al. **Rontgenpraxis** 1996 Oct; 49(10):255–60 **(Ger)**

[The resection of single brain metastases before whole–brain irradiation] Kocher M. **Strahlenther Onkol** 1997 Aug; 173(8):433–4 **(Ger)**

[Improvement in function–preservation in radiotherapy for pediatric malignancies] Sumi M, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):657–65 (33 ref.) (Eng. Abstr.) **(Jpn)**

[The usefulness of radiotherapy in the management of intracranial meningioma: a review of 29 patients] Monzen Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb; 57(3):114–8 (Eng. Abstr.) **(Jpn)**

[High–dose conformal radiotherapy for glioblastoma multiforme] Nakagawa K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May; 57(6):330–5 (Eng. Abstr.) **(Jpn)**

[Radiation therapy for low–grade astrocytomas: survival and QOL] Nemoto K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May; 57(6):336–40 (Eng. Abstr.) **(Jpn)**

[Treatment results of brain metastasis from breast cancer: course of the disease and radiation therapy] Yamada K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):34–40 (Eng. Abstr.) **(Jpn)**

[Assessment of radiotherapy effects on brain tumors by dynamic susceptibility contrast MR imaging] Tomoi M, et al. **Nippon Rinsho** 1997 Jul;55(7):1731–5 (Eng. Abstr.) **(Jpn)**

REHABILITATION

Efficacy of postacute brain injury rehabilitation for patients with primary malignant brain tumors. Sherer M, et al. **Cancer** 1997 Jul 15;80(2):250–7

Verbally administered Barthel Index as functional assessment in brain tumour patients. Brazil L, et al. **J Neurooncol** 1997 Sep;34(2):187–92

[Treatment of metastatic brain tumors from lung cancer: analysis of performance status between treatment methods] Nakagawa H, et al. **No Shinkei Geka** 1997 Feb;25(2):117–22 (Eng. Abstr.) **(Jpn)**

SECONDARY

Effect of LINAC radiosurgery on regional cerebral blood flow, glucose metabolism and sodium–potassium AtPase in skull base meningiomas and metastasis. Warnke PC, et al. **Acta Neurochir Suppl (Wien)** 1997;68:124–6

Surgical resection of brain metastases from lung cancer. Andrews RJ, et al. **Acta Neurochir (Wien)** 1996; 138(4):382–9

Cerebral metastases in childhood malignancies. Tasdemiroglu E, et al. **Acta Neurochir (Wien)** 1997;139(3):182–7

Multiple calcified brain metastases revealing a lung carcinoma. Duval L, et al. **Acta Neurol Belg** 1996 Dec; 96(4):312–5

Reduction of brain metastasis following immunotherapy with interleukin–2 for stage IV renal cell cancer. Citterio G, et al. **Acta Oncol** 1997;36(2):228

Intrathecal prophylaxis following autologous bone marrow transplantation for non–Hodgkin's lymphoma. Varadi G, et al. **Acta Oncol** 1997;36(3):349–50

Isolated intracranial metastasis of neuroblastoma 2 years after completion of therapy. Lydaki E, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):79–82

Search for a primary lung neoplasm in patients with brain metastasis: is the chest radiograph sufficient? [see comments] Latief KH, et al. **AJR Am J Roentgenol** 1997 May;168(5):1339–44. Comment in: AJR Am J Roentgenol 1997 May;168(5):1345–6.

Re: search for a primary lung neoplasm in patients with brain metastasis: is the chest radiograph sufficient? [comment] Lynch DA. **AJR Am J Roentgenol** 1997 May;168(5):1345–6 . Comment on: AJR Am J Roentgenol 1997 May;168(5):1339–44.

The role of hyperfractionated re–irradiation in metastatic brain disease: a single institutional trial. Abdel–Wahab MM, et al. **Am J Clin Oncol** 1997 Apr;20(2):158–60

Acceptability of patients with brain metastases for clinical trials of chemotherapy for metastatic non–small–cell lung cancer. Ando Y, et al. **Am J Clin Oncol** 1996 Oct; 19(5):478–82

Activity of combination chemotherapy in brain metastases from breast and lung adenocarcinoma. Colleoni M, et al. **Am J Clin Oncol** 1997 Jun;20(3):303–7

Survival of patients with extensive small–cell lung cancer who have only brain metastases at initial diagnosis. Kochhar R, et al. **Am J Clin Oncol** 1997 Apr;20(2):125–7

A case of neonatal choriocarcinoma. Kishkurno S, et al. **Am J Perinatol** 1997 Feb;14(2):79–82

Colorectal carcinoma and brain metastasis: distribution, treatment, and survival. Hammoud MA, et al. **Ann Surg Oncol** 1996 Sep;3(5):453–63

Secondary squamous cell carcinoma of the orbit. Johnson TE, et al. **Arch Ophthalmol** 1997 Jan;115(1):75–8

Fibrin deposition in primary and metastatic human brain tumours. Bárdos H, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):536–48

Cerebral metastases of cutaneous melanoma. Gupta G, et al. **Br J Cancer** 1997;76(2):256–9

Interstitial iodine–125 radiosurgery for cerebral metastases [letter; comment] Choudhury AR. **Br J Neurosurg** 1996 Apr;10(2):229. Comment on: Br J Neurosurg 1995;9(5):593–603.

Abscess within a brain metastasis. Ng WP, et al. **Can J Neurol Sci** 1996 Nov;23(4):300–2

The role of palliative radiotherapy for brain metastases. Paszat L, et al. **Can J Oncol** 1996 Feb;6 Suppl 1:48–53 (37 ref.)

Cancer–associated retinopathy: a clinicopathological case report. Boucher MC, et al. **Can J Ophthalmol** 1997 Feb; 32(1):46–9

Brain metastases in children with solid tumors. Bouffet E, et al. **Cancer** 1997 Jan 15;79(2):403–10

Stereotactic radiosurgery for the treatment of brain metastases. Results of a single institution series. Breneman JC, et al. **Cancer** 1997 Feb 1;79(3):551–7

Brain metastases from colorectal carcinoma: the long term survivors [letter; comment] Lee KC. **Cancer** 1997 May 1; 79(9):1842. Comment on: Cancer 1996 Aug 15;78(4):711–6.

A randomized trial to assess the efficacy of surgery in addition to radiotherapy in patients with a single cerebral

metastasis. Mintz AH, et al. **Cancer** 1996 Oct 1;78(7):1470–6

Brain metastases. Histology, multiplicity, surgery, and survival. Nussbaum ES, et al. **Cancer** 1996 Oct 15; 78(8):1781–8

Brain metastases in children with melanoma. Rodriguez-Galindo C, et al. **Cancer** 1997 Jun 15; 79(12):2440–5

A randomized trial to assess the efficacy of surgery in addition to radiotherapy in patients with a single cerebral metastasis [letter] Wroński M, et al. **Cancer** 1997 Sep 1; 80(5):1002–4

Prophylactic cranial irradiation for patients with small cell lung cancer. An enduring controversy. Wagner H Jr. **Chest Surg Clin N Am** 1997 Feb;7(1):151–66 (53 ref.)

Metastasizing extraneural tumors along the CSF pathway. Lee JY, et al. **Clin Neuropathol** 1997 May-Jun;16(3):117–21 (15 ref.)

Cardiac myxoma with glandular elements metastatic to the brain 12 years after the removal of the original tumor. Scarpelli M, et al. **Clin Neuropathol** 1997 Jul-Aug; 16(4):190–4

Tc-99m sestamibi SPECT imaging of a brain metastasis in a man with lung tumor and increased sexual activity. Mira ML, et al. **Clin Nucl Med** 1996 Sep;21(9):745–6

Tc-99m HMPAO uptake in renal cell carcinoma metastases. Tsukamoto E, et al. **Clin Nucl Med** 1997 Aug;22(8):569–70

Prophylactic cranial irradiation in small cell lung cancer (SCLC) makes a comeback [editorial] Gregor A. **Clin Oncol (R Coll Radiol)** 1997;9(3):148–9

Brain metastases in patients with differentiated thyroid carcinoma. Hjiyiannakis P, et al. **Clin Oncol (R Coll Radiol)** 1996;8(5):327–30

Final results of the Royal College of Radiologists' trial comparing two different radiotherapy schedules in the treatment of cerebral metastases [letter; comment] Jones B, et al. **Clin Oncol (R Coll Radiol)** 1997;9(2):134–5. Comment on: Clin Oncol (R Coll Radiol) 1996;8(5):308–15.

Gestational choriocarcinoma metastatic to the brain treated successfully by stereotactic radiosurgery and chemotherapy. Leslie MD, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):259–60

Final results of the Royal College of Radiologists' trial comparing two different radiotherapy schedules in the treatment of cerebral metastases [see comments] Priestman TJ, et al. **Clin Oncol (R Coll Radiol)** 1996;8(5):308–15. Comment in: Clin Oncol (R Coll Radiol) 1997;9(2):134–5.

Current treatment of cerebral metastasis. Kim M, et al. **Curr Opin Neurol** 1996 Dec;9(6):414–8 (40 ref.)

Brain metastasis: role of trophic, autocrine, and paracrine factors in tumor invasion and colonization of the central nervous system. Nicolson GL, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):89–115 (138 ref.)

Is the time interval between diagnosis and radiation treatment an important factor in brain metastases? [letter] Henríquez I, et al. **Eur J Cancer** 1996 Nov;32A(12):2184

Prophylactic cranial irradiation in limited stage small cell lung cancer: survival benefit in patients with favourable characteristics. Work E, et al. **Eur J Cancer** 1996 May; 32A(5):772–8

Unusual presentation of a metastatic choriocarcinoma following a full term pregnancy: a case report. Balat O, et al. **Eur J Gynaecol Oncol** 1996;17(4):271–3

Isolated brain metastases of osteosarcoma in a patient presenting with a patent foramen ovale. Menassa L, et al. **Eur Radiol** 1997;7(3):365–7

Comparative allelotype of early and advanced stage non-small cell lung carcinomas. Shiseki M, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):71–7

Brain metastases from a primary carcinoma of the fallopian tube. Cormio G, et al. **Gynecol Obstet Invest** 1996; 41(4):286–8

A pure brain metastasis of choriocarcinoma from a mixed germ cell tumor of the ovary. Adcock LL, et al. **Gynecol Oncol** 1997 Feb;64(2):252–5

Primary peritoneal adenocarcinoma metastatic to the brain. Eltabbakh GH, et al. **Gynecol Oncol** 1997 Jul;66(1):160–3

Successful treatment of brain metastases from ovarian cancer using gamma-knife radiosurgery. Kawana K, et al. **Gynecol Oncol** 1997 May;65(2):357–9

Complete remission of refractory gestational trophoblastic disease with brain metastases treated with multicycle ifosfamide, carboplatin, and etoposide (ICE) and stem cell rescue. van Besien K, et al. **Gynecol Oncol** 1997 May; 65(2):366–9

Gene therapy for metastatic brain tumors by vaccination with granulocyte-macrophage colony-stimulating factor-transduced tumor cells. Yu JS, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1065–72

Metastatic adenocarcinoma to the brain: an immunohistochemical approach. Perry A, et al. **Hum Pathol** 1997 Aug;28(8):938–43

Brain metastasis as first presentation on carcinoma of the esophagus--a case report. Biswal BM, et al. **Indian J Med Sci** 1995 Sep;49(9):210–1

Brain metastasis model in athymic nude mice using a novel MUC1-secreting human breast-cancer cell line, MA11. Rye PD, et al. **Int J Cancer** 1996 Nov 27;68(5):682–7

Dosimetric results from a feasibility study of a novel radiosurgical source for irradiation of intracranial metastases. Douglas RM, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):443–50

Recursive partitioning analysis (RPA) of prognostic factors in three Radiation Therapy Oncology Group (RTOG) brain metastases trials. Gaspar L, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):745–51

Tumor-related prognostic factors for remission of brain metastases after radiotherapy. Nieder C, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):25–30

Radiosurgery for brain metastases: relationship of dose and pattern of enhancement to local control. Shiau CY, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):375–83 (21 ref.)

Stereotactic irradiation without whole-brain irradiation for single brain metastasis. Shirato H, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):385–91

Radiosurgery, cost-effectiveness, gold standards, the scientific method, cavalier cowboys, and the cost of hope [editorial; comment] Sperduto PW, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):511–3. Comment on: Int J Radiat Oncol Biol Phys 1996 Apr 1;35(1):27–35. Comment on: Int J Radiat Oncol Biol Phys 1996 Apr 1;35(1):185–6.

External radiation of brain metastases from renal carcinoma: a retrospective study of 119 patients from the M. D. Anderson Cancer Center. Wrónski M, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):753–9

Brain metastasis in malignant pleural mesothelioma. Kawai A, et al. **Intern Med** 1997 Aug;36(8):591–4 (20 ref.)

Solitary cerebral metastasis from tumor of the testis: some observations about treatment in two cases. Salvati M, et al. **Ital J Neurol Sci** 1997 Jun;18(3):173–5

Treatment of brain metastases in patients with testicular cancer. Bokemeyer C, et al. **J Clin Oncol** 1997 Apr; 15(4):1449–54

CNS metastases: one's too many. Lekos A, et al. **J Clin Oncol** 1997 Aug;15(8):3019–20

Dural metastasis at medulla oblongata: a rare cause of vocal fold paralysis. Pak MW, et al. **J Laryngol Otol** 1996 Sep; 110(9):884–6

Linac based radiosurgery (X-knife) for brain metastases. Pattaranutaporn P, et al. **J Med Assoc Thai** 1997 May; 80(5):282–6

Brain metastases from unknown primary site. Khansur T, et al. **J Miss State Med Assoc** 1997 Jul;38(7):238–42

Symmetrical cerebral metastasis presenting with bilateral upper extremity weakness. Wilck EJ, et al. **J Neuroimaging** 1996 Oct;6(4):254–6

Calcified brain metastases from lung carcinoma [letter] Cacho J, et al. **J Neurol** 1996 Jun;243(6):487–8

Proton magnetic resonance spectroscopy and intracranial tumours: clinical perspectives. Falini A, et al. **J Neurol** 1996 Oct;243(10):706–14

Cerebral metastases of an allogenic renal cell carcinoma in a heart recipient without renal cell carcinoma [letter] Meyding-Lamadé U, et al. **J Neurol** 1996 May;243(5):425–7

In vivo diagnosis of human malignant melanoma with positron emission tomography using specific melanoma-seeking 18F-DOPA analogue. Mishima Y, et al. **J Neurooncol** 1997 May;33(1–2):163–9

Hematogenous metastases of the human brain--characteristics of peritumoral brain changes: a review. Zhang M, et al. **J Neurooncol** 1997 Oct;35(1):81–9 (79 ref.)

Painful ophthalmoplegia syndrome secondary to metastatic renal cell carcinoma. Mehelas TJ, et al. **J Neuroophthalmol** 1996 Dec;16(4):289–90

Brain metastasis from malignant pancreatic somatostatinoma. Case report. Abe T, et al. **J Neurosurg** 1996 Oct;85(4):681–4

"Miliary" metastatic tumors in the brain. Case report. Bhushan C. **J Neurosurg** 1997 Mar;86(3):564–6

Tumor seeding following stereotactic biopsy of brain metastases. Report of two cases. Karlsson B, et al. **J Neurosurg** 1997 Aug;87(2):327–30

Hepatoblastoma metastatic to brain: prolonged survival after multiple surgical resections of a solitary brain lesion. Robertson PL, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr;19(2):168–71

Small-cell carcinoma of the prostate. Nutting C, et al. **J R Soc Med** 1997 Jun;90(6):340–1

Prophylactic cranial irradiation for small-cell lung cancer [letter; comment] Arriagada R, et al. **Lancet** 1997 Jan 11; 349(9045):138. Comment on: Lancet 1996 Aug 10;348(9024):350.

Brain relapses in chemotherapy-treated small cell lung cancer: a retrospective review of two time-dose regimens of therapeutic brain irradiation. Bach F, et al. **Lung Cancer** 1996 Sep;15(2):171–81

Lung squamous cell carcinoma presenting with brain metastases in an HIV-positive patient. Kosmopoulou O, et al. **Lung Cancer** 1996 Sep;15(2):245–9

Quantitative computer-assisted analysis vs. visual estimation of MR imaging response of brain metastases to radiotherapy. Taphoorn MJ, et al. **Magn Reson Imaging** 1997;15(1):99–106

Gd-enhanced MR imaging of brain metastases: contrast as a function of dose and lesion size. van Dijk P, et al. **Magn Reson Imaging** 1997;15(5):535–41

Concepts and controversies in the treatment of brain metastases. Chougule PB. **Med Health R I** 1996 Jun; 79(6):214–7 (35 ref.)

Secondary central nervous system metastases in children with neuroblastoma. Astigarraga I, et al. **Med Pediatr Oncol** 1996 Dec;27(6):529–33

Postoperative limited volume irradiation in a child with a solitary brain metastasis from Wilms tumor: a case report. Kortmann RD, et al. **Med Pediatr Oncol** 1997 Sep; 29(3):222–3

Fotemustine given simultaneously with total brain irradiation in multiple brain metastases of malignant melanoma: report on a pilot study. Bröcker EB, et al. **Melanoma Res** 1996 Oct;6(5):399–401

Selective growth of human melanoma cells in the brain parenchyma of nude mice. Fujimaki T, et al. **Melanoma Res** 1996 Oct;6(5):363–71

Clinical problem solving: when too much is too little [letter; comment] Kadish SP, et al. **N Engl J Med** 1997 May 15; 336(20):1459. Comment on: N Engl J Med 1996 Dec 5;335(23):1755–9.

Clinical problem-solving. When too much is too little [see comments] Morrison RS, et al. **N Engl J Med** 1996 Dec 5;335(23):1755–9. Comment in: N Engl J Med 1997 May 15;336(20):1458; discussion 1459. Comment in: N Engl J Med 1997 May 15;336(20):1458–9; discussion 1459. Comment in: N Engl J Med 1997 May 15;336(20):1459.

Carcinomatous change in the cranial metastasis from a metastasizing mixed tumor of the salivary gland--case report. Fujimura M, et al. **Neurol Med Chir (Tokyo)** 1997 Jul;37(7):546–50

Solitary metastasis of lung cancer to the cerebellopontine angle--case report. Minami M, et al. **Neurol Med Chir (Tokyo)** 1996 Mar;36(3):172–4

Cerebral metastasis of parathyroid carcinoma. Yamamoto T, et al. **Neurol Med Chir (Tokyo)** 1996 Feb;36(2):96–8

Therapeutic approaches to primary and secondary brain tumours. Whittle IR. **Neuropathol Appl Neurobiol** 1996 Oct; 22(5):424–9 (36 ref.)

Multiple haemorrhagic brain metastases from papillary thyroid cancer. Isoda H, et al. **Neuroradiology** 1997 Mar; 39(3):198–202

Intracranial metastases of hepatocellular carcinoma: CT and MRI. Murakami K, et al. **Neuroradiology** 1996 May;38 Suppl 1:S31–5

Calcified brain metastases from ovarian carcinoma. Ricke J, et al. **Neuroradiology** 1996 Jul;38(5):460–1

MRI in carcinomatous encephalitis. Shirai H, et al. **Neuroradiology** 1997 Jun;39(6):437–40

Recurrent brain metastases. Alexander E 3rd, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):517–26 (53 ref.)

Clinical decision making in brain metastases. Arbit E, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):447–57 (79 ref.)

Medical management of cerebral metastases. Batchelor T, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):435–46 (117 ref.)

Diagnosis of suspected intracranial metastases. Role of direct tissue examination. Carter BS, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):425–33 (23 ref.)

Clinical presentation of intracranial metastases. Das A, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):377–91 (65 ref.)

Radiosurgery: its role in brain metastasis management. Flickinger JC, et al. **Neurosurg Clin N Am** 1996 Jul; 7(3):497–504 (25 ref.)

Immunotoxin therapy. Hall WA. **Neurosurg Clin N Am** 1996 Jul;7(3):537–46 (28 ref.)

Demographics of brain metastasis. Johnson JD, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):337–44 (89 ref.)

Surgical management of cerebral metastases. Lang FF, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):459–84 (82 ref.)

Chemotherapy of cerebral metastases from solid tumors. Lesser GJ. **Neurosurg Clin N Am** 1996 Jul;7(3):527–36 (73 ref.)

Interstitial brachytherapy for intracranial metastases. McDermott MW, et al. **Neurosurg Clin N Am** 1996 Jul; 7(3):485–95

Cost and outcome analysis. Penar PL. **Neurosurg Clin N Am** 1996 Jul;7(3):547–58 (65 ref.)

Imaging of cerebral metastases. Schaefer PW, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):393–423 (132 ref.)

Radiotherapy for cerebral metastases. Sneed PK, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):505–15 (48 ref.)

Pathology of cerebral metastases. Takahashi JA, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):345–67 (105 ref.)

Recommendations for treatment of brain metastases. Thornton AF, et al. **Neurosurg Clin N Am** 1996 Jul; 7(3):559–64

Biology of a brain metastasis. Walsh JW. **Neurosurg Clin N Am** 1996 Jul;7(3):369–76 (53 ref.)

Solitary brain metastases from non-oat cell lung cancer: clinical and prognostic features. Salvati M, et al. **Neurosurg Rev** 1996;19(4):221–5

The role of adjuvant radiation and multiple resection within the surgical management of brain metastases. Weber F, et al. **Neurosurg Rev** 1996;19(1):23–32

1H MR spectroscopy detection of lipids and lactate in metastatic brain tumors. Sijens PE, et al. **NMR Biomed** 1996 Apr;9(2):65–71

Hodgkin's disease of the orbit with intracranial extension. Sahjpaul R, et al. **Ophthalmic Surg Lasers** 1996 Mar; 27(3):239–42 (16 ref.)

Workup for metastatic retinoblastoma. A review of 261 patients. Karcioglu ZA, et al. **Ophthalmology** 1997 Feb; 104(2):307–12

p53 in a thyroid follicular carcinoma with foci of poorly differentiated and anaplastic carcinoma. Matias-Guiu X, et al. **Pathol Res Pract** 1996 Dec;192(12):1242–9; discussion 1250–1

Metastases to pineal gland as first symptom of bronchogenic

carcinoma: report on an case. Borghi L, et al. **Pathologica** 1996 Apr;88(2):137–8

Recognition of central nervous system metastases in children with metastatic primary extracranial neuroblastoma. Blatt J, et al. **Pediatr Hematol Oncol** 1997 May–Jun;14(3):233–41

Intracranial metastasis of renal cell carcinoma: MR imaging. Uchino A, et al. **Radiat Med** 1996 Mar–Apr;14(2):71–6

Hyperfractionated and accelerated radiation therapy in central nervous system tumors (malignant gliomas, pediatric tumors, and brain metastases). Fallai C, et al. **Radiother Oncol** 1997 Jun;43(3):235–46 (93 ref.)

Radiation therapy of intracranial malignant melanoma. Isokangas OP, et al. **Radiother Oncol** 1996 Feb;38(2):139–44

Paclitaxel/carboplatin chemotherapy as primary treatment of brain metastases in non-small cell lung cancer: a preliminary report. Lee JS, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 12):S12-52–S12-55

Stereotactic radiosurgery for malignant melanoma to the brain. Seung SK, et al. **Surg Clin North Am** 1996 Dec; 76(6):1399–411

Early gastric cancer manifested as brain metastasis: report of a case. Nomura T, et al. **Surg Today** 1997;27(4):334–6

Intracranial metastatic adenocarcinoma of the prostate presenting as visual disturbance. Preston DM, et al. **Tech Urol** 1997 Spring;3(1):51–3

Brain metastases from cervical carcinoma. Cormio G, et al. **Tumori** 1996 Jul–Aug;82(4):394–6

Brain metastases in well-differentiated carcinoma of the thyroid. Samuel AM, et al. **Tumori** 1997 Mar–Apr; 83(2):608–10

Treatment of brain metastases from hypernephroma. Nieder C, et al. **Urol Int** 1996;57(1):17–20

Intracranial metastases as the first manifestation of prostate cancer. Sutton MA, et al. **Urology** 1996 Nov;48(5):789–93 (28 ref.)

Miliary brain metastases from malignant melanoma. Rainov NG, et al. **Zentralbl Neurochir** 1996;57(1):20–4

[Thoraco-cranial operation for treatment of lung cancer with brain metastasis] Chen J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):67–9 (Eng. Abstr.) **(Chi)**

[Renal cancer presenting as parietal-temporal cerebral metastasis and a persistent fever] Markovic B, et al. **Ann Urol (Paris)** 1997;31(3):155–8 (Eng. Abstr.) **(Fre)**

[Prolonged remission in a child with late brain metastasis of retinoblastoma] Marec-Bérard P, et al. **Arch Pediatr** 1996 Oct;3(10):1001–5 (Eng. Abstr.) **(Fre)**

[Colonic cancer disclosed by solitary cerebral metastasis (letter)] Alamowitch B, et al. **Gastroenterol Clin Biol** 1996; 20(8–9):703–4 **(Fre)**

[Cerebral metastases of gynecological origin] De Witte O, et al. **Neurochirurgie** 1996;42(4–5):216–20 (17 ref.) (Eng. Abstr.) **(Fre)**

[Malignant blue nevus with metastasis to lymph nodes and brain] Niederecker C, et al. **Hautarzt** 1996 Sep;47(9):711–5 (Eng. Abstr.) **(Ger)**

[Orbital myopathy in metastatic malignant paraganglioma: a paraneoplastic syndrome?] Spraul CW, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep;209(2–3):153–7 (Eng. Abstr.) **(Ger)**

[Selective organ metastasis in follicular thyroid gland carcinoma] Hoelting T, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:761–4 (Eng. Abstr.) **(Ger)**

[PET studies with C-11 ethanol in intratumoral therapy of hepatocellular carcinomas] Dimitrakopoulou-Strauss A, et al. **Radiologe** 1996 Sep;36(9):744–9 (Eng. Abstr.) **(Ger)**

[A case from practice (372). Brain metastasis of a highly-malignant undifferentiated carcinoma in unknown primary tumor] Brüderlin M. **Schweiz Rundsch Med Prax** 1997 Jan 7;86(1–2):26–8 **(Ger)**

[The radio surgery of brain metastases] Becker G. **Strahlenther Onkol** 1997 Apr;173(4):240–2 **(Ger)**

[The resection of single brain metastases before whole-brain irradiation] Kocher M. **Strahlenther Onkol** 1997 Aug; 173(8):433–4 **(Ger)**

[Brain metastases in renal cell carcinoma. Results of treatment and prognosis] Pomer S, et al. **Urologe A** 1997 Mar; 36(2):117–25 (Eng. Abstr.) **(Ger)**

[Brain metastases of colon and rectum carcinomas] Nieder C, et al. **Wien Klin Wochenschr** 1997 Apr 11;109(7):239–43 (Eng. Abstr.) **(Ger)**

[First manifestation of choriocarcinoma in a 24-year-old patient in the form of hemiparesis] Klare P, et al. **Zentralbl Gynakol** 1997;119(6):282–3 (Eng. Abstr.) **(Ger)**

[Brain metastases in patients with malignant ovarian epithelial tumors] Gabriele A, et al. **Minerva Ginecol** 1996 Oct; 48(10):415–21 (Eng. Abstr.) **(Ita)**

[Clinical onset of brain metastasis: ictus. Report of a case] Mancuso G, et al. **Recenti Prog Med** 1996 Sep;87(9):425–7 (Eng. Abstr.) **(Ita)**

[A case of breast cancer metastasis to the skin and bone 13 years after, and to the brain 17 years after mastectomy] Itoshima T, et al. **Gan To Kagaku Ryoho** 1997 Aug; 24(10):1331–3 (Eng. Abstr.) **(Jpn)**

[Management of increased intracranial pressure in metastatic brain tumor] Muragaki Y, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):297–302 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Diagnosis and treatment of metastatic brain tumor] Nakagawa H, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(10):1235–47 (50 ref.) (Eng. Abstr.) **(Jpn)**

[Correlation between MR imaging and histopathological findings of cystic metastatic brain tumors] Fukusumi A, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Dec; 56(14):1019–26 (Eng. Abstr.) **(Jpn)**

[Gamma knife radiosurgery for metastatic brain tumors: neuropathological report of two autopsy cases and review of literatures] Tago M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb; 57(3):119–26 (30 ref.) (Eng. Abstr.) **(Jpn)**

[Double-dose Gd-DTPA: detectability of intraparenchymal brain metastasis] Tatsuno S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):855–9 (Eng. Abstr.) **(Jpn)**

[Treatment results of brain metastasis from breast cancer: course of the disease and radiation therapy] Yamada K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):34–40 (Eng. Abstr.) **(Jpn)**

[A case of non-B, non-C, juvenile hepatocellular carcinoma with brain metastasis] Sato S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):758–62 **(Jpn)**

[Stereotactic irradiation for brain metastases using linear accelerator] Kato T, et al. **No Shinkei Geka** 1996 Nov; 24(11):1003–9 (Eng. Abstr.) **(Jpn)**

[Effects of biochemical modulation chemotherapy with CDDP and 5-FU on metastatic brain tumor from lung cancer] Nakagawa H, et al. **No Shinkei Geka** 1997 Mar; 25(3):215–23 (39 ref.) (Eng. Abstr.) **(Jpn)**

[Treatment of metastatic brain tumors from lung cancer: analysis of performance status between treatment methods] Nakagawa H, et al. **No Shinkei Geka** 1997 Feb;25(2):117–22 (Eng. Abstr.) **(Jpn)**

[A case of olfactory neuroblastoma with intracranial, intraorbital extension and multiple metastases] Sasaki M, et al. **No Shinkei Geka** 1997 Feb;25(2):163–7 (Eng. Abstr.) **(Jpn)**

[A 36-year-old woman with acute onset left hemiplegia and anosognosia (clinical conference)] Goto K, et al. **No To Shinkei** 1997 Mar;49(3):291–300 (Eng. Abstr.) **(Jpn)**

[A case of alveolar soft-part sarcoma with cerebral metastases] Haga Y, et al. **No To Shinkei** 1996 Mar; 48(3):269–74 (Eng. Abstr.) **(Jpn)**

[Stereotactic radiosurgery for the treatment of brain metastases] Hiyama H, et al. **No To Shinkei** 1996 Feb; 48(2):113–9 **(Jpn)**

[Cerebrospinal fluid in the diagnosis of cerebro-meningeal metastasis from malignant melanoma arising from giant congenital melanocytic nevus: case report] Rolim JA, et al. **Arq Neuropsiquiatr** 1996 Sep;54(3):479–83 (Eng. Abstr.) **(Por)**

[Small renal cell carcinoma of the prostate with cerebral metastasis] Rivas Alonso A, et al. **Actas Urol Esp** 1996 Jun;20(6):582–5 (Eng. Abstr.) **(Spa)**

[Intracranial dissemination of intramedullary malignant glioma. Report of a pediatric case] Orejón de Luna G, et al. **An Esp Pediatr** 1996 Sep;45(3):293–5 (23 ref.) **(Spa)**

[Polymyositis and cerebral metastasis as the initial manifestation of a carcinoma of unknown origin. Apropos of a case] Garcia Román JM, et al. **An Med Interna** 1995 Nov;12(11):552–4 (Eng. Abstr.) **(Spa)**

[Epithelioid sarcoma of the right arm with brain metastases (letter)] Ulla Anes M, et al. **An Med Interna** 1997 Feb; 14(2):105 **(Spa)**

[Palinopsia: first manifestation of a brain metastasis] Martin Estefanía C, et al. **Neurologia** 1996 Nov;11(9):357–8 **(Spa)**

[Brain miliary metastases secondary to a renal adenocarcinoma (letter; comment)] Arjona A, et al. **Rev Neurol** 1996 Oct;24(134):1305–6. Comment on: Rev Neurol 1996 Mar;24(127):352–3. **(Spa)**

[Miliary metastases to the brain (letter) (see comments)] Beltrán I, et al. **Rev Neurol** 1996 Mar;24(127):352–3. Comment in: Rev Neurol 1996 Oct;24(134):1305–6. **(Spa)**

SECRETION

Purification and identification of a novel and four known serine proteinase inhibitors secreted by human glioblastoma cells. Koshikawa N, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):334–9

SURGERY

Lesionectomy in epileptogenic temporal lobe lesions: preoperative seizure course and postoperative outcome. Casazza M, et al. **Acta Neurochir Suppl (Wien)** 1997;68:64–9

Incorporation of ultrasonic imaging in an optically coupled frameless stereotactic system. Hirschberg H, et al. **Acta Neurochir Suppl (Wien)** 1997;68:75–80

Low grade glioma in intractable epilepsy: lesionectomy versus epilepsy surgery. Lombardi D, et al. **Acta Neurochir Suppl (Wien)** 1997;68:70–4

Integration of functional brain mapping in image-guided neurosurgery. Rezai AR, et al. **Acta Neurochir Suppl (Wien)** 1997;68:85–9

Significant reduction of seizure incidence and increase of benzodiazepine receptor density after interstitial radiosurgery in low-grade gliomas. Warnke PC, et al. **Acta Neurochir Suppl (Wien)** 1997;68:90–2

False aneurysms of the intracavernous carotid artery--report of 7 cases. Bavinzski G, et al. **Acta Neurochir (Wien)** 1997; 139(1):37–43

Cavernomas of the central nervous system in children. A report of 22 cases. Di Rocco C, et al. **Acta Neurochir (Wien)** 1996;138(11):1267–74; discussion 1273–4 (40 ref.)

Neuroendoscopic management of pineal region tumours. Ferrer E, et al. **Acta Neurochir (Wien)** 1997;139(1):12–20; discussion 20–1

Endoscopic transsphenoidal resection of a large chordoma in the posterior fossa. Jho HD, et al. **Acta Neurochir (Wien)** 1997;139(4):343–7; discussion 347–8

Arteriovenous malformation associated with pleomorphic xanthoastrocytoma. Lee TT, et al. **Acta Neurochir (Wien)** 1996;138(5):590–1 (5 ref.)

Cavernous haemangioma of the pineal region. Lombardi D, et al. **Acta Neurochir (Wien)** 1996;138(6):678–83 (16 ref.)

Interstitial laser thermotherapy in neurosurgery: a review. Menovsky T, et al. **Acta Neurochir (Wien)** 1996; 138(9):1019–26 (49 ref.)

Activation PET scanning in pretreatment evaluation of patients with cerebral tumours or vascular lesions in or close to the sensorimotor cortex. Nyberg G, et al. **Acta Neurochir (Wien)** 1996;138(6):684–94

Frameless stereotactic guided neurosurgery: clinical experience with an infrared based pointer device navigation system. Roessler K, et al. **Acta Neurochir (Wien)** 1997; 139(6):551–9

Re-operations of supratentorial anaplastic astrocytomas. Sipos L, et al. **Acta Neurochir (Wien)** 1997;139(2):99–104

Choroid plexus papillomas: consideration of a surgical series of 33 cases. Tacconi L, et al. **Acta Neurochir (Wien)** 1996; 138(7):802–10

Control of complications in the midfrontobasal approach. van Dijk JM, et al. **Acta Neurochir (Wien)** 1997;139(4):355–7; discussion 357–8

Outcome of 31 intracranial haemangiopericytomas: poor predictive value of cell proliferation indices. Vuorinen V, et al. **Acta Neurochir (Wien)** 1996;138(12):1399–408

Correlation of intra-operative ultrasound with histopathologic findings after tumour resection in supratentorial gliomas. A method to improve gross total tumour resection. Woydt M, et al. **Acta Neurochir (Wien)** 1996;138(12):1391–8

Fractionated stereotactic radiotherapy with cis-platinum radiosensitization in the treatment of recurrent, progressive, or persistent malignant astrocytoma. Glass J, et al. **Am J Clin Oncol** 1997 Jun;20(3):226–9

The variable relationship between the lower cranial nerves and jugular foramen tumors: implications for neural preservation. Lustig LR, et al. **Am J Otol** 1996 Jul; 17(4):658–68 (32 ref.)

Antiphospholipid syndrome and neurosurgery [letter; comment] Kiyama S. **Anaesthesia** 1997 Jun;52(6):612. Comment on: Anaesthesia 1997 Jan;52(1):72–6.

Effect of cranial surgery and brain tumor size on emergence from anesthesia. Schubert A, et al. **Anesthesiology** 1996 Sep; 85(3):513–21

Radical surgery in the management of low-grade and high-grade gliomas. Rostomily RC, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):345–69 (84 ref.)

Ultrasound-guided neurosurgery: a feasibility study in the 3–30 MHz frequency range. Gronningsaeter A, et al. **Br J Neurosurg** 1996 Apr;10(2):161–8

Microsurgery with the Steiner-Lindquist stereotaxic guide. Mathiesen T, et al. **Br J Neurosurg** 1996 Apr;10(2):155–60

Somatosensory evoked potential identification of sensorimotor cortex in removal of intracranial neoplasms. Rowed DW, et al. **Can J Neurol Sci** 1997 May;24(2):116–20

Brain tumour surgery in the elderly: a brief reappraisal. Bernstein M. **Can J Surg** 1996 Apr;39(2):147–50

Surgery in the elderly patient: a time for reappraisal. Caron JL. **Can J Surg** 1996 Apr;39(2):94–5

Stereotactic radiosurgery for the treatment of brain metastases. Results of a single institution series. Breneman JC, et al. **Cancer** 1997 Feb 1;79(3):551–7

Anaplastic pleomorphic xanthoastrocytoma. Bayindir C, et al. **Childs Nerv Syst** 1997 Jan;13(1):50–6

Intra-axial endophytic tumors in the pons and/or medulla oblongata. II. Intraoperative findings, postoperative results, and 2-year follow up in 25 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):135–46

Brain stem dermoid cyst [letter; comment] Dunn LT, et al. **Childs Nerv Syst** 1996 May;12(5):229. Comment on: Childs Nerv Syst 1995 Jul;11(7):373.

Whole body radiation exposure with gamma unit radiosurgery. Chao MM, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jul;58(1):29–34

Pleomorphic xanthoastrocytoma: clinical, imaging and pathological features of four cases. Bucciero A, et al. **Clin Neurol Neurosurg** 1997 Feb;99(1):40–5

Management of glioblastoma multiforme: with special reference to recurrence. Durmaz R, et al. **Clin Neurol Neurosurg** 1997 May;99(2):117–23

Cerebellar mutism: report of two unusual cases and review of the literature. Erşahin Y, et al. **Clin Neurol Neurosurg** 1997 May;99(2):130–4 (27 ref.)

Gestational choriocarcinoma metastatic to the brain treated successfully by stereotactic radiosurgery and chemotherapy. Leslie MD, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):259–60

Intracranial germ-cell tumours--treatment results and

residuals. Haupt C, et al. **Eur J Pediatr** 1996 Mar; 155(3):230–6
CT and MRI findings after stereotactic resection of brain lesions. Herman M, et al. **Eur J Radiol** 1996 Nov; 23(3):228–34
Creutzfeldt–Jakob disease transmitted by dura mater graft. Clavel M, et al. **Eur Neurol** 1996;36(4):239–40 (10 ref.)
Successful treatment of brain metastases from ovarian cancer using gamma–knife radiosurgery. Kawana K, et al. **Gynecol Oncol** 1997 May;65(2):357–9
Survival after radiosurgery for brain metastasis: regarding Buatti et al. IJROBP 32(4):1161–1166; 1995 [letter; comment] Bindal RK, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):523. Comment on: Int J Radiat Oncol Biol Phys 1995 Jul 15;32(4):1161–6.
Benign meningiomas: primary treatment selection affects survival. Condra KS, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):427–36
Dosimetric results from a feasibility study of a novel radiosurgical source for irradiation of intracranial metastases. Douglas RM, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):443–50
Hypofractionated stereotactic radiotherapy in the management of recurrent glioma. Shepherd SF, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):393–8
Radiosurgery for brain metastases: relationship of dose and pattern of enhancement to local control. Shiau CY, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):375–83 (21 ref.)
Comparison of miniature multileaf collimation (MMLC) with circular collimation for stereotactic treatment. Shiu AS, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):679–88
Radiosurgery, cost–effectiveness, gold standards, the scientific method, cavalier cowboys, and the cost of hope [editorial; comment] Sperduto PW, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):511–3. Comment on: Int J Radiat Oncol Biol Phys 1996 Apr 1;35(1):27–35. Comment on: Int J Radiat Oncol Biol Phys 1996 Apr 1;35(1):185–6.
Vasospasm following tumor removal: report of 5 cases. Cervoni L, et al. **Ital J Neurol Sci** 1996 Aug;17(4):291–4
Two cases of dysembryoplastic neuroepithelial tumors with intractable complex partial seizures. Itoh M, et al. **J Child Neurol** 1997 Jan;12(1):67–70
A multimedia database system for thermal ablation therapy of brain tumors. Dionisio JD, et al. **J Digit Imaging** 1997 Feb;10(1):21–6
Single–stage stereotactic diagnosis and radiosurgery: feasibility and cost implications. Gerszten PC, et al. **J Image Guid Surg** 1995;1(3):141–50
A technique utilizing positron emission tomography and magnetic resonance/computed tomography image fusion to aid in surgical navigation and tumor volume determination. Kraus GE, et al. **J Image Guid Surg** 1995; 1(6):300–7
Tumor resection by stereotactic craniotomy using the Brown–Roberts–Wells system. Maciunas RJ. **J Image Guid Surg** 1995;1(4):208–16
Correlation of functional magnetic source imaging with intraoperative cortical stimulation in neurosurgical patients. Roberts TP, et al. **J Image Guid Surg** 1995;1(6):339–47
Profound hypothermia and cardiopulmonary bypass in the treatment of recurrent giant angioblastic meningioma case report. Chung YG, et al. **J Korean Med Sci** 1996 Oct; 11(5):449–53
Preliminary experiences with intraoperative radiation therapy (IORT) for the treatment of brain tumors. Chung YG, et al. **J Korean Med Sci** 1995 Dec;10(6):449–52
Linac based radiosurgery (X–knife) for brain metastases. Pattaranutaporn P, et al. **J Med Assoc Thai** 1997 May; 80(5):282–6
Stereotactic surgery boosts accuracy when treating "hidden" brain tumors [news] Bankhead C. **J Natl Cancer Inst** 1997 May 7;89(9):610–2
Clinical application of functional magnetic resonance imaging (fMRI) to surgery in the brain [letter] Lundquist P, et al. **J Neuroimaging** 1997 Apr;7(2):131–3
Pure word deafness after resection of a tectal plate glioma with preservation of wave V of brain stem auditory evoked potentials [letter] Meyer B, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):423–4
The impact of technical adjuncts in the surgical management of cerebral hemispheric low–grade gliomas of childhood. Berger MS. **J Neurooncol** 1996 May–Jun;28(2–3):129–55 (163 ref.)
Low grade gliomas: functional mapping resection strategies, extent of resection, and outcome. Berger MS, et al. **J Neurooncol** 1997 Aug;34(1):85–101 (80 ref.)
Surgical indication and technical considerations in the management of benign brain stem gliomas. Constantini S, et al. **J Neurooncol** 1996 May–Jun;28(2–3):193–205 (77 ref.)
Supratentorial primitive neuroectodermal tumors in children. Dirks PB, et al. **J Neurooncol** 1996 Jul;29(1):75–84
Stereotactic radiosurgery for malignant brain tumors: the patient's perspective. Ward–Smith P. **J Neurosci Nurs** 1997 Apr;29(2):117–22
Cholesterol granulomas of the petrous apex: combined neurosurgical and otological management. Brodkey JA, et al. **J Neurosurg** 1996 Oct;85(4):625–33
Tumors of the insula [letter; comment] Kreth FW, et al. **J Neurosurg** 1997 May;86(5):910–1. Comment on: J Neurosurg 1996 Aug;85(2):263–71.
Surgical treatment of clival chordomas: the transsphenoidal approach revisited. Maira G, et al. **J Neurosurg** 1996 Nov; 85(5):784–92
Gamma knife radiosurgery in 11 hemangioblastomas. Niemelä M, et al. **J Neurosurg** 1996 Oct;85(4):591–6
Surgery or radiosurgery? [letter; comment] Ott K. **J Neurosurg** 1997 Jan;86(1):165–6; discussion 169–70. Comment on: J Neurosurg 1996 May;84(5):748–54.
Frameless stereotaxy with real–time tracking of patient head movement and retrospective patient–image registration. Ryan MJ, et al. **J Neurosurg** 1996 Aug;85(2):287–92
Management of primary intracranial germinomas: diagnostic surgery or radical resection? Sawamura Y, et al. **J Neurosurg** 1997 Aug;87(2):262–6
Surgery or radiosurgery [letter; comment] Stelzer KJ, et al. **J Neurosurg** 1997 Jan;86(1):168–9; discussion 169–70. Comment on: J Neurosurg 1996 May;84(5):748–54.
Pediatric intracranial chordomas [letter; comment] Tekkök IH, et al. **J Neurosurg** 1996 Nov;85(5):990. Comment on: J Neurosurg 1996 Apr;84(4):584–91.
Hemostasis activation in patients undergoing brain tumor surgery. Vukovich TC, et al. **J Neurosurg** 1997 Oct; 87(4):508–11
Surgery or radiosurgery [letter; comment] Warnke PC, et al. **J Neurosurg** 1997 Jan;86(1):166–7; discussion 169–70. Comment on: J Neurosurg 1996 May;84(5):748–54.
A novel computer–assisted volumetric stereotactic approach for resecting tumors of the posterior parahippocampal gyrus. Weiner HL, et al. **J Neurosurg** 1996 Aug;85(2):272–7
Surgery or radiosurgery [letter; comment] Young RF. **J Neurosurg** 1997 Jan;86(1):167–8; discussion 169–70. Comment on: J Neurosurg 1996 May;84(5):748–54.
Intrinsic tumors of the insula: a prospective surgical study of 30 patients [see comments] Zentner J, et al. **J Neurosurg** 1996 Aug;85(2):263–71. Comment in: J Neurosurg 1997 May;86(5):910–1.
Effects of normo– and hypocapnic nitrous–oxide–inhalation on cerebral blood flow velocity in patients with brain tumors. Hörmann C, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):141–5
Asystole as a neurologic sign. Tyler DS, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):29–30
Surgical treatment of anterior callosal tumors. D'Angelo V, et al. **J Neurosurg Sci** 1997 Mar;41(1):117–22
Tumours of the callosal area: problems and surgical strategies. de Divitiis E, et al. **J Neurosurg Sci** 1995 Sep; 39(3):147–52
Cognition and quality of life in patients after transcallosal microsurgery for midline tumors. Hütter BO, et al. **J Neurosurg Sci** 1997 Mar;41(1):123–9
Surgical treatment of glial tumours of genus corpus callosum and medial parts of frontal lobes. Kachkov IA, et al. **J Neurosurg Sci** 1997 Mar;41(1):113–5
Clinical and radiographic stabilization of intracranial glioblastoma. Report of a case treated after surgery with tamoxifen. Mastronardi L, et al. **J Neurosurg Sci** 1996 Jun; 40(2):129–33
Transcallosal approach to tumors of the third ventricle. Surgical results and neuropsychological evaluation. Villani R, et al. **J Neurosurg Sci** 1997 Mar;41(1):41–50
Surgical management of TSH–secreting pituitary adenomas. Wang CJ, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Oct; 12(10):590–4
Localisation of sensory motor cortex during surgery by changes of cortical surface temperature after median nerve stimulation [letter] Ueda M, et al. **Lancet** 1997 Aug 23; 350(9077):561
Comparison of 810 nm and 1064 nm wavelengths for interstitial laser photocoagulation in rabbit brain. Wyman DR, et al. **Lasers Surg Med** 1997;21(1):50–8
Brain tumors of childhood. Duncan JA 3rd. **Med Health R I** 1996 Jun;79(6):229–31 (11 ref.)
Advances in the treatment of brain tumors [editorial] Epstein MH. **Med Health R I** 1996 Jun;79(6):204
Effects of irradiation geometry on treatment plan optimization with linac–based radiosurgery. Phillips MH, et al. **Med Phys** 1996 Aug;23(8):1399–406
Intracranial epidermoid and dermoid cysts. Results of microneurosurgery. Bucciero A, et al. **Minerva Chir** 1997 Jun;52(6):863–6
Stereotactically guided cavernous malformation surgery. Boecher–Schwarz HG, et al. **Minim Invasive Neurosurg** 1996 Jun;39(2):50–5
An intracerebral sonographic catheter as an adjunct to stereotactic guided endoscopic procedures. Froelich J, et al. **Minim Invasive Neurosurg** 1996 Sep;39(3):93–6
Glabellar approach: simplified midline anterior skull base approach. Jho HD, et al. **Minim Invasive Neurosurg** 1997 Jun;40(2):62–7
MIN–biopsy of brain tumors: operative technique and histomorphological results. Scholz M, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):12–6
A biorbitofrontobasal interhemispheric approach for suprasellar lesions. Ohata K, et al. **Mt Sinai J Med** 1997 May;64(3):217–21
Early effects of gamma knife radiosurgery on brain metastases: assessment by 201TlCl SPECT and 99mTc–DTPA–human serum albumin SPECT. Seo Y, et al. **Neurol Med Chir (Tokyo)** 1997 Jan;37(1):25–30; discussion 30–1
Experimental and clinical study of detection of glioma at surgery using fluorescent imaging by a surgical microscope after fluorescein administration. Kabuto M, et al. **Neurol Res** 1997 Feb;19(1):9–16
Neuropsychologic late effects in children with malignant brain tumors treated with surgery, radiotherapy and "8 in 1" chemotherapy. Ilveskoski I, et al. **Neuropediatrics** 1996 Jun;27(3):124–9
Remote memory in patients with acute brain injuries. Leplow B, et al. **Neuropsychologia** 1997 Jun;35(6):881–92
Radiosurgery: its role in brain metastasis management. Flickinger JC, et al. **Neurosurg Clin N Am** 1996 Jul; 7(3):497–504 (25 ref.)
Surgical management of cerebral metastases. Lang FF, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):459–84 (82 ref.)
Surgical removal of cavernous angioma in the medulla oblongata. A case report. Abe M, et al. **Neurosurg Rev** 1997;20(2):128–31 (10 ref.)
Successful excision of hemorrhagic cavernous angioma in a patient with severe factor VII deficiency: perioperative treatment with factor VII concentrate. Brunori A, et al. **Neurosurg Rev** 1997;20(1):67–70
Cerebral gliosarcoma: prognostic factors. Cervoni L, et al. **Neurosurg Rev** 1996;19(2):93–6
Management of pilocytic astrocytoma. Kayama T, et al. **Neurosurg Rev** 1996;19(4):217–20
Surgical management of brain–stem cavernomas. Pechstein U, et al. **Neurosurg Rev** 1997;20(2):87–93
Hemangioblastomas of the spinal cord and the brainstem: diagnostic and therapeutic features. Spetzger U, et al. **Neurosurg Rev** 1996;19(3):147–51
Bovine pericardium for dural grafts: clinical results in 35 patients. Anson JA, et al. **Neurosurgery** 1996 Oct; 39(4):764–8
Primary angiosarcoma of the brain: case report. Antoniadis C, et al. **Neurosurgery** 1996 Mar;38(3):583–5; discussion 585–6
Surgery of the Soul's cistern [clinical conference] Apuzzo ML, et al. **Neurosurgery** 1996 Nov;39(5):1022–9
Dorsal brain stem lipomas: case report. Baeesa SS, et al. **Neurosurgery** 1996 May;38(5):1031–5
Lesions in eloquent cortex [clinical conference] Berger MS, et al. **Neurosurgery** 1997 May;40(5):1059–63
High–grade astrocytomas in children: radiologically complete resection is associated with an excellent long–term prognosis. Campbell JW, et al. **Neurosurgery** 1996 Feb;38(2):258–64
Intraoperative autologous blood transfusion in intracranial surgery. Cataldi S, et al. **Neurosurgery** 1997 Apr; 40(4):765–71; discussion 771–2
Somatosensory evoked potential phase reversal and direct motor cortex stimulation during surgery in and around the central region. Cedzich C, et al. **Neurosurgery** 1996 May; 38(5):962–70
Pediatric intracranial hemangioendotheliomas: case report. Chen TC, et al. **Neurosurgery** 1997 Feb;40(2):410–4 (22 ref.)
The efficient calculation of neurosurgically relevant volumes from computed tomographic scans using Cavalieri's Direct Estimator. Clatterbuck RE, et al. **Neurosurgery** 1997 Feb; 40(2):339–42; discussion 343
Interstitial irradiation of brain tumors, using a miniature radiosurgery device: initial experience. Cosgrove GR, et al. **Neurosurgery** 1997 Mar;40(3):518–23; discussion 523–5
Postoperative pain in neurosurgery: a pilot study in brain surgery. De Benedittis G, et al. **Neurosurgery** 1996 Mar; 38(3):466–9; discussion 469–70
Long–term access to cystic brain stem lesions using the Ommaya reservoir: technical case report. Giovanini MA, et al. **Neurosurgery** 1996 Aug;39(2):404–7; discussion 407–8
Intracranial schwannoma presenting as a subfrontal tumor: case report. Huang PP, et al. **Neurosurgery** 1997 Jan; 40(1):194–7
Magnetoencephalographic mapping: basic of a new functional risk profile in the selection of patients with cortical brain lesions. Hund M, et al. **Neurosurgery** 1997 May;40(5):936–42; discussion 942–3
Stereotactic management of lesions of the pineal region. Kreth FW, et al. **Neurosurgery** 1996 Aug;39(2):280–9; discussion 289–91
Use of cortical surface vessel registration for image–guided neurosurgery. Nakajima S, et al. **Neurosurgery** 1997 Jun; 40(6):1201–8; discussion 1208–10
Cervical spinal cord infarction after surgery for a pineal region choriocarcinoma in the sitting position: case report. Nitta H, et al. **Neurosurgery** 1997 May;40(5):1082–5; discussion 1085–6
Paramedian supracerebellar approach to the upper brain stem and peduncular lesions. Ogata N, et al. **Neurosurgery** 1997 Jan;40(1):101–4; discussion 104–5
The interactive use of magnetoencephalography in stereotactic image–guided neurosurgery. Rezai AR, et al. **Neurosurgery** 1996 Jul;39(1):92–102
Primary non–Hodgkin's lymphoma of the sciatic nerve followed by localization in the central nervous system: case report and review of the literature. Roncaroli F, et al. **Neurosurgery** 1997 Mar;40(3):618–21; discussion 621–2 (11 ref.)
Light–emitting diodes as a light source for intraoperative photodynamic therapy. Schmidt MH, et al. **Neurosurgery** 1996 Mar;38(3):552–6; discussion 556–7
Tumors of Heschl's gyrus: report of two cases. Silbergeld DL. **Neurosurgery** 1997 Feb;40(2):389–92

In vivo accuracy testing and clinical experience with the ISG Viewing Wand. Sipos EP, et al. **Neurosurgery** 1996 Jul;39(1):194–202; discussion 202–4

Intraoperative diagnostic and interventional magnetic resonance imaging in neurosurgery. Tronnier VM, et al. **Neurosurgery** 1997 May;40(5):891–900; discussion 900–2

Surgical treatment of neoplasms associated with medically intractable epilepsy. Zentner J, et al. **Neurosurgery** 1997 Aug;41(2):378–86; discussion 386–7

Effects of brain stem lesions on cochlear function: mechanism of hearing improvement after removal of a brain stem tumor. Qiu WW, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):560–7

Deferring adjuvant therapy for totally resected intracranial ependymoma. Awaad YM, et al. **Pediatr Neurol** 1996 Apr; 14(3):216–19

Stereotactic radiosurgery in pediatric patients. Weprin BE, et al. **Pediatr Neurol** 1996 Oct;15(3):193–9

Intrinsic tumors of the medulla: predicting outcome after surgery. Abbott R, et al. **Pediatr Neurosurg** 1996 Jul; 25(1):41–4

Mixed neuronal–glial tumors (gangliogliomas) in children. Chintagumpala MM, et al. **Pediatr Neurosurg** 1996 Jun; 24(6):306–13

Practical decisions in the treatment of pediatric brain stem tumors. Epstein F, et al. **Pediatr Neurosurg** 1996; 24(1):24–34 (77 ref.)

Intracranial ependymomas: analysis of prognostic factors in a population–based series. Foreman NK, et al. **Pediatr Neurosurg** 1996;24(3):119–25

Malignant fibrous histiocytoma in a 9–year–old girl. Hari JK, et al. **Pediatr Neurosurg** 1996;24(3):160–50; discussion 166

Early outcomes after stereotactic radiosurgery for growing pilocytic astrocytomas in children. Somaza SC, et al. **Pediatr Neurosurg** 1996 Sep;25(3):109–15

Usefulness and problems of stereotactic radiosurgery using a linear accelerator. Naoi Y, et al. **Radiat Med** 1996 Jul–Aug;14(4):215–9

Stereotactic radiosurgery of malignant and benign intracranial lesions utilizing a patient rotator. Alleyne CH Jr, et al. **Radiat Oncol Investig** 1997;5(1):20–30

Analysis of prognostic factors for patients with single brain metastasis treated with stereotactic radiosurgery. Fernandez–Vicioso E, et al. **Radiat Oncol Investig** 1997; 5(1):31–7

Response of intracranial melanoma metastases to stereotactic radiosurgery. Gieger M, et al. **Radiat Oncol Investig** 1997; 5(2):72–80

Efficacy and feasibility of stereotactic radiosurgery in the primary management of unfavorable pediatric ependymoma. Aggarwal R, et al. **Radiother Oncol** 1997 Jun;43(3):269–73

Contrast–enhanced magnetization transfer imaging: improvement of brain tumor conspicuity and delineation for radiosurgical target volume definition. Hawighorst H, et al. **Radiother Oncol** 1997 Jun;43(3):261–7

Positron emission tomography using 18F–fluorodeoxyglucose in patients with stereotactically irradiated brain metastases. Ericson K, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:214–24

Radiosurgery of brain metastases with the Gamma Knife. Fukuoka S, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:193–200

Gamma Knife radiosurgery for intracranial metastases: from local tumor control to increased survival. Gerosa M, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:184–92

Radiobiological effects of gamma knife radiosurgery on brain tumors studied in autopsy and surgical specimens. Hirato M, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:4–16

Pathobiology of cerebral gliomas in children and the role of radiosurgery. Inoue HK, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:278–87

A straightforward implantation method of radioactive sources by means of the Leksell frame. Koken PW, et al. **Stereotact Funct Neurosurg** 1995;64(4):202–13

Value of surgical intervention in the treatment of glioma. Quigley MR, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):171–5

Gamma Knife radiosurgery for brain stem metastases: two autopsy cases. Tago M, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:225–30

Tumor cell proliferation and apoptosis associated with the Gamma Knife effect. Tsuzuki T, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:39–48

Irradiation effects on the metabolism of metastatic brain tumors: analysis by positron emission tomography and 1H–magnetic resonance spectroscopy. Yoshino E, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:240–59

Stereotactic radiosurgery for malignant melanoma to the brain. Seung SK, et al. **Surg Clin North Am** 1996 Dec; 76(6):1399–411

Management outcome in third ventricular colloid cysts in a defined population: a series of 40 patients treated mainly by transcallosal microsurgery. Hernesniemi J, et al. **Surg Neurol** 1996 Jan;45(1):2–14

Reoperation for recurrent malignant gliomas: what are your indications? Kelly PJ, et al. **Surg Neurol** 1997 Jan; 47(1):39–42

Total removal of a primary intracranial squamous cell carcinoma invading the brain stem. Ogata N, et al. **Surg Neurol** 1996 Nov;46(5):477–80

A comparison of children with suprasellar germ cell tumors and craniopharyngiomas: final height, weight, endocrine, and visual sequelae after treatment. Ono N, et al. **Surg Neurol** 1996 Oct;46(4):370–7

Surgical removal of a cavernous sinus chondroma. Terasaka S, et al. **Surg Neurol** 1997 Aug;48(2):153–9 (22 ref.)

Pleomorphic xanthoastrocytoma: report of six cases with special consideration of diagnostic and therapeutic pitfalls. Tonn JC, et al. **Surg Neurol** 1997 Feb;47(2):162–9 (27 ref.)

Central neurocytoma: clinical, immunohistologic, and biologic findings of a human neuroglial progenitor tumor. Valdueza JM, et al. **Surg Neurol** 1996 Jan;45(1):49–56

Surgical treatment of solid brain stem tumors in adults: a report of 22 cases. Xu QW, et al. **Surg Neurol** 1997 Jul; 48(1):30–6

Radiosurgery. Larson DA, et al. **West J Med** 1996 Jul–Aug; 165(1–2):59–60

Anatomical aspects for surgery within the floor of the IVth ventricle. Strauss C, et al. **Zentralbl Neurochir** 1997; 58(1):7–12 (30 ref.)

[Thoraco–cranial operation for treatment of lung cancer with brain metastasis] Chen J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):67–9 (Eng. Abstr.) **(Chi)**

[Cavernous cerebral angioma: indications for neurosurgical removal] Kloet A, et al. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2494–8 (30 ref.) **(Dut)**

[Intensive care (letter)] Lidlbauer M. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):391 **(Ger)**

[Hyponatremia and renal sodium loss in a patient after resection of an intracerebral tumor] von Appen K, et al. **Internist (Berl)** 1997 Feb;38(2):157–9 **(Ger)**

[Value of stereotaxy in neurosurgery. Indications and analysis of results of 71 cases] Ebel H, et al. **Nervenarzt** 1996 Aug; 67(8):650–8 (Eng. Abstr.) **(Ger)**

[Differential therapy of cerebral arteriovenous malformations. An analysis with reference to personal microsurgery experiences] Schaller C, et al. **Nervenarzt** 1996 Oct;67(10):860–9 (72 ref.) (Eng. Abstr.) **(Ger)**

[Gamma knife versus stereotactic linear accelerator irradiation. Implementation, clinical results and cost–benefit relations. (letter; comment)] Wowra B. **Radiologe** 1997 Feb; 37(2):184–7. Comment on: Radiologe 1996 Apr;36(4):345–53. **(Ger)**

[Migration of an aneurysm clip in the ventricular system] Sievert T, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):451–3 **(Ger)**

[The radio surgery of brain metastases] Becker G. **Strahlenther Onkol** 1997 Apr;173(4):240–2 **(Ger)**

[The resection of single brain metastases before whole–brain irradiation] Kocher M. **Strahlenther Onkol** 1997 Aug; 173(8):433–4 **(Ger)**

[Cerebral cavernomas––clinical aspects and therapy] Meixensberger J, et al. **Wien Med Wochenschr** 1997; 147(7–8):194–8 (47 ref.) (Eng. Abstr.) **(Ger)**

[Stereotaxically guided versus ultrasound guided surgery––a comparative report of experiences] Tomancok B, et al. **Zentralbl Neurochir** 1996;57(3):123–8 (Eng. Abstr.) **(Ger)**

[Clinical outcome of stereotaxic radiosurgery of the brain] Horváth A, et al. **Orv Hetil** 1996 Jul 21;137(29):1579–82 (Eng. Abstr.) **(Hun)**

[Surgical aspects of frontal lobe tumors] Vizioli L, et al. **Minerva Chir** 1997 Jun;52(6):811–6 (Eng. Abstr.) **(Ita)**

[Intracranial meningiomas in the elderly] Pompili A, et al. **Minerva Med** 1997 Jun;88(6):229–36 (Eng. Abstr.) **(Ita)**

[Gamma knife radiosurgery for metastatic brain tumors: neuropathological report of two autopsy cases and review of literatures] Tago M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb; 57(3):119–26 (30 ref.) (Eng. Abstr.) **(Jpn)**

[A surgical case of ecchordosis physaliphora] Akimoto J, et al. **No Shinkei Geka** 1996 Nov;24(11):1021–5 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Stereotactic irradiation for brain metastases using linear accelerator] Kato T, et al. **No Shinkei Geka** 1996 Nov; 24(11):1003–9 (Eng. Abstr.) **(Jpn)**

[Preservation of olfaction in frontal transbasal approach] Kawauchi M, et al. **No Shinkei Geka** 1997 Jul;25(7):613–9 (Eng. Abstr.) **(Jpn)**

[Transient mutism after resection of left frontal lobe astrocytoma in adult: case report] Kunishio K, et al. **No Shinkei Geka** 1997 Jan;25(1):61–5 (Eng. Abstr.) **(Jpn)**

[A case of cystic hemangioblastoma of the medulla oblongata] Masuda A, et al. **No Shinkei Geka** 1996 Oct;24(10):949–53 (17 ref.) (Eng. Abstr.) **(Jpn)**

[The use of twist drill craniostomy in stereotactic surgery for brain tumors] Matsumoto K, et al. **No Shinkei Geka** 1995 Dec;23(12):1093–7 (Eng. Abstr.) **(Jpn)**

[Resection of glioma located in deep or eloquent area: application of functional mapping, intraoperative monitoring and navigation with CT or MRI–assisted stereotactic guidance] Matsumoto K, et al. **No Shinkei Geka** 1997 Jan;25(1):17–28 (58 ref.) **(Jpn)**

[Efficacy of the TURBO–fluid attenuated inversion recovery spin echo sequence of MRI as a preoperative neuroradiological examination] Nakaguchi H, et al. **No Shinkei Geka** 1997 Jul;25(7):599–606 (Eng. Abstr.) **(Jpn)**

[Practical localization of the central sulcus using a video display during surgery by cortical somatosensory evoked potentials and how to discern precentral P20 and central P25] Namiki J, et al. **No Shinkei Geka** 1997 Feb;25(2):123–9 (Eng. Abstr.) **(Jpn)**

[Changes in metabolism and peritumoral circulation after radiosurgery of metastatic brain tumors: evaluation by three dimensional dual isotope SPECT] Sugo N, et al. **No Shinkei Geka** 1997 Jun;25(6):515–21 (Eng. Abstr.) **(Jpn)**

[Primary intramedullary melanocytoma of medulla oblongata: a case report] Takenaka N, et al. **No Shinkei Geka** 1996 Mar;24(3):247–52 (28 ref.) (Eng. Abstr.) **(Jpn)**

[Microanatomy and microsurgery for tumors involving the cavernous sinus] Tamaki N, et al. **No Shinkei Geka** 1997 May;25(5):399–409 (19 ref.) **(Jpn)**

[The results of gamma knife radiosurgery for malignant skull base tumors] Tanaka T, et al. **No Shinkei Geka** 1996 Mar; 24(3):235–9 (Eng. Abstr.) **(Jpn)**

[Stereotactic radiosurgery for the treatment of brain metastases] Hiyama H, et al. **No To Shinkei** 1996 Feb; 48(2):113–9 **(Jpn)**

[Experimental study of detection of brain tumor at surgery using fluorescent imaging under a surgical microscope after fluorescein administration] Kabuto M, et al. **No To Shinkei** 1997 Mar;49(3):261–5 (Eng. Abstr.) **(Jpn)**

[Gamma radiosurgery for malignant tumors] Kobayashi T, et al. **No To Shinkei** 1996 Feb;48(2):121–8 (15 ref.) **(Jpn)**

[Surgical case of cerebral pilocytic astrocytoma––clinicopathologic study and analysis of proliferation potential by PCNA staining] Nakayama Y, et al. **No To Shinkei** 1996 Mar;48(3):265–8 (Eng. Abstr.) **(Jpn)**

[Stereotactic multiple arc radiotherapy] Nomura K, et al. **No To Shinkei** 1996 Feb;48(2):143–8 (15 ref.) **(Jpn)**

[Cerebral metastases treated with stereotaxic gamma radiation. 6–year experience with the "gamma knife" at the Haukeland hospital] Baardsen R, et al. **Tidsskr Nor Laegeforen** 1997 Apr 30;117(11):1591–5 (Eng. Abstr.) **(Nor)**

[The gamma knife (radiation knife)––a progress in the treatment of cerebral metastases] Magnaes B. **Tidsskr Nor Laegeforen** 1997 Apr 30;117(11):1583 **(Nor)**

[Stereotactic surgery for intracranial mass lesions: diagnosis and treatment] Meneses MS, et al. **Arq Neuropsiquiatr** 1996 Mar;54(1):64–70 (Eng. Abstr.) **(Por)**

[Endogenous intoxication and its treatment with sodium hypochlorite in neurosurgical patients] Parfenov AL, et al. **Anesteziol Reanimatol** 1997 May–Jun;(3):62–5 (Eng. Abstr.) **(Rus)**

[Otoneurological symptoms and their changes after removal of pineal tumors] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1997;(3):18–24 (Eng. Abstr.) **(Rus)**

[The effect of extent of tumor resection on the outcome of combined therapy in patients with glioblastoma multiforme] Jeremić B, et al. **Srp Arh Celok Lek** 1997 Mar–Apr; 125(3–4):93–8 (Eng. Abstr.) **(Scc)**

THERAPY

Gene therapy in brain tumours: implications of the size of glioblastoma on its curability. Izquierdo M, et al. **Acta Neurochir Suppl (Wien)** 1997;68:111–7

Anti–angiogenic gene therapy of malignant glioma. Stratmann A, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:105–10 (30 ref.)

Effects of an intratumoral injection of human recombinant tumor necrosis factor–alpha on cerebrovascular permeability and leukocytic infiltration in a rat glioma model. Wright JL, et al. **Acta Neuropathol (Berl)** 1997 Jan; 93(1):78–86

Reduction of brain metastasis following immunotherapy with interleukin–2 for stage IV renal cell cancer. Citterio G, et al. **Acta Oncol** 1997;36(2):228

Radiotherapy enhanced ototoxicity of cisplatin in children. Miettinen S, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:90–4

Improving outcome of malignant brain tumours in very young children: a population–based study in Finland during 1975–93. Ilveskoski I, et al. **Acta Paediatr** 1997 Jul; 86(7):724–9

Concurrent radiation and intracarotid cisplatin infusion in malignant gliomas: a feasibility study. Fountzilas G, et al. **Am J Clin Oncol** 1997 Apr;20(2):138–42

In vitro evaluation of temozolomide combined with X–irradiation. Wedge SR, et al. **Anticancer Drugs** 1997 Jan; 8(1):92–7

Improving care for central nervous system tumours: a mood for change. Lashford LS, et al. **Arch Dis Child** 1997 Feb; 76(2):88–90

Challenges in the management of childhood brain tumour [letter] Walker DA, et al. **Arch Dis Child** 1996 Aug; 75(2):171

Management of histologically aggressive lymphomas with a high risk of CNS disease. Horak ID, et al. **Baillieres Clin Haematol** 1996 Dec;9(4):707–26 (60 ref.)

Gene therapies for glioblastomas. Viola JJ, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):413–24 (47 ref.)

Intracavitary liposome–mediated p53 gene transfer into glioblastoma with endogenous wild–type p53 in vivo results in tumor suppression and long–term survival. Hsiao M, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):359–64

Artificial-capillary-system development of human alloreactive cytotoxic T-lymphocytes that lyse brain tumours. Kruse CA, et al. **Biotechnol Appl Biochem** 1997 Jun;25 (Pt 3):197-205

Malignant cerebral glioma. Patients should be treated in specialist units [letter; comment] Guerrero D, et al. **BMJ** 1997 Mar 22;314(7084):899; discussion 901. Comment on: BMJ 1996 Dec 14;313(7071):1512-6.

Feasibility of a PB CD34+ cell transplantation procedure using standard leukapheresis products in very small children. Berger M, et al. **Bone Marrow Transplant** 1997 Aug;20(3):191-8

Gene therapy for malignant neoplasms of the CNS. Culver KW. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S6-9 (20 ref.)

High-dose BCNU and autologous progenitor cell transplantation given with intra-arterial cisplatinum and simultaneous radiotherapy in the treatment of high-grade gliomas: benefit for selected patients. Fernández-Hidalgo OA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):143-9

Durable remission of a relapsing primary central nervous system lymphoma after autologous bone marrow transplantation. Khalfallah S, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1021-3

Chemoimmunotherapy with bleomycin, vincristine, lomustine, dacarbazine (BOLD) plus interferon alpha for metastatic melanoma: a multicentre phase II study. Punt CJ, et al. **Br J Cancer** 1997;76(2):266-9

The management of gliomas [editorial] Bliss P, et al. **Br J Hosp Med** 1996 Feb 7-20;55(3):82-3

Intrinsic brainstem tumours in childhood: a report of 35 children followed for a minimum of 5 years. Chitnavis B, et al. **Br J Neurosurg** 1997 Jun;11(3):206-9

Gene therapy for brain tumours [editorial] Whittle IR. **Br J Neurosurg** 1995;9(6):717-20

Gene therapy for brain tumors. Kramm CM, et al. **Brain Pathol** 1995 Oct;5(4):345-81 (346 ref.)

Focal midbrain glioma: long term survival in a cohort of 16 patients and the implications for management. Hamilton MG, et al. **Can J Neurol Sci** 1996 Aug;23(3):204-7

Radiosurgery and accelerated radiotherapy for patients with glioblastoma. Shenouda G, et al. **Can J Neurol Sci** 1997 May;24(2):110-5

A randomized trial to assess the efficacy of surgery in addition to radiotherapy in patients with a single cerebral metastasis [letter] Wroński M, et al. **Cancer** 1997 Sep 1; 80(5):1002-4

High-dose carmustine for high-grade gliomas in childhood. Bouffet E, et al. **Cancer Chemother Pharmacol** 1997; 39(4):376-9

Defective herpes simplex virus vectors expressing thymidine kinase for the treatment of malignant glioma. Miyatake S, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):222-8

Immunochemotherapy of malignant glioma: synergistic activity of CD95 ligand and chemotherapeutics. Roth W, et al. **Cancer Immunol Immunother** 1997 Mar;44(1):55-63

Malignant gliomas in children. Johnson JH Jr, et al. **Cancer Invest** 1996;14(6):609-21 (72 ref.)

Gene therapy of malignant glioma via inhibition of tumor angiogenesis. Plate KH. **Cancer Metastasis Rev** 1996 Jun; 15(2):237-40 (20 ref.)

Evaluation of genetically engineered herpes simplex viruses as oncolytic agents for human malignant brain tumors. Andreansky S, et al. **Cancer Res** 1997 Apr 15;57(8):1502-9

Gap junctions promote the bystander effect of herpes simplex virus thymidine kinase in vivo. Dilber MS, et al. **Cancer Res** 1997 Apr 15;57(8):1523-8

Treatment of intracranial tumors by systemic transfer of superantigen-activated tumor-draining lymph node T cells. Inoue M, et al. **Cancer Res** 1996 Oct 15;56(20):4702-8

Retroviral delivery and tetracycline-dependent expression of IL-1beta-converting enzyme (ICE) in a rat glioma model provides controlled induction of apoptotic death in tumor cells. Yu JS, et al. **Cancer Res** 1996 Dec 1; 56(23):5423-7

Defining the synergistic effects of irradiation and T-cell immunotherapy for murine intracranial tumors. Plautz GE, et al. **Cell Immunol** 1996 Aug 1;171(2):277-84

Treatment of murine gliomas by adoptive transfer of ex vivo activated tumor-draining lymph node cells. Plautz GE, et al. **Cell Immunol** 1997 Jun 15;178(2):101-7

Retreatment of patients with intracranial gliomas by external beam radiotherapy and cytotoxic chemotherapy. Hayat K, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):158-63

Contemporary issues in the management of childhood brain tumors. Allen JC, et al. **Curr Opin Neurol** 1997 Apr; 10(2):137-41 (35 ref.)

Brain tumor therapy in the third millennium [editorial] Baltuch GH, et al. **Curr Opin Neurol** 1996 Dec;9(6):407-8

Advances and controversies in the management of childhood brain tumors. Kuttesch JF Jr. **Curr Opin Oncol** 1997 May; 9(3):235-40 (34 ref.)

Controversies in the treatment of low-grade astrocytomas and oligodendrogliomas [editorial] Levin VA. **Curr Opin Oncol** 1996 May;8(3):175-7

Brain tumors in children. Packer RJ. **Curr Opin Pediatr** 1996 Dec;8(6):549-57 (41 ref.)

Recognition and management of gliomas. Kaba SE, et al. **Drugs** 1997 Feb;53(2):235-44 (56 ref.)

Etoposide and thiotepa followed by ABMT (autologous bone marrow transplantation) in children and young adults with high-grade gliomas. Bouffet E, et al. **Eur J Cancer** 1997 Jan;33(1):91-5

Prolonged corticosteroid-induced remission in primary central nervous system lymphoma: report of a case and review of the literature. Herrlinger U, et al. **Eur Neurol** 1996;36(4):241-3 (11 ref.)

Angiogenesis in human gliomas: prognostic and therapeutic implications. Johnson JP, et al. **EXS** 1997;79:29-46 (116 ref.)

Human malignant brain tumor response to herpes simplex thymidine kinase (HSVtk)/ganciclovir gene therapy. Izquierdo M, et al. **Gene Ther** 1996 Jun;3(6):491-5

Gene therapy for malignant gliomas using replication incompetent retroviral and adenoviral vectors encoding the cytochrome P450 2B1 gene together with cyclophosphamide. Manome Y, et al. **Gene Ther** 1996 Jun; 3(6):513-20

A continuous intracerebral gene delivery system for in vivo liposome-mediated gene therapy. Zhu J, et al. **Gene Ther** 1996 Jun;3(6):472-6

Complete remission of refractory gestational trophoblastic disease with brain metastases treated with multicycle ifosfamide, carboplatin, and etoposide (ICE) and stem cell rescue. van Besien K, et al. **Gynecol Oncol** 1997 May; 65(2):366-9

Treatment of cancer using pulsed electric field in combination with chemotherapeutic agents or genes. Nishi T, et al. **Hum Cell** 1997 Mar;10(1):81-6

Treatment of advanced CNS malignancies with the recombinant adenovirus H5.010RSVTK: a phase I trial. Eck SL, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1465-82

Long-term survival in a rodent model of disseminated brain tumors by combined intrathecal delivery of herpes vectors and ganciclovir treatment. Kramm CM, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1989-94

A novel multiply-mutated HSV-1 strain for the treatment of human brain tumors. Pyles RB, et al. **Hum Gene Ther** 1997 Mar 20;8(5):533-44

Targeted killing of migrating glioma cells by injection of HTK-modified glioma cells. Tamura M, et al. **Hum Gene Ther** 1997 Mar 1;8(4):381-91

Gene therapy for metastatic brain tumors by vaccination with granulocyte-macrophage colony-stimulating factor-transduced tumor cells. Yu JS, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1065-72

Cisplatin, hyperthermia and radiation treatment in human cisplatin-sensitive and resistant glioma cell lines. Raaphorst GP, et al. **Int J Hyperthermia** 1996 Nov-Dec;12(6):801-12

Nongerminomatous germ cell tumors of the brain. Schild SE, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1; 36(3):557-63

Primary cerebral non-Hodgkin's lymphoma (PCNSL): a review of new trends in management. Boiardi A, et al. **Ital J Neurol Sci** 1997 Feb;18(1):1-7 (71 ref.)

Multicentric and multifocal primary cerebral tumours. Methods of diagnosis and treatment. Salvati M, et al. **Ital J Neurol Sci** 1997 Feb;18(1):17-20

Solitary cerebral metastasis from tumor of the testis: some observations about treatment in two cases. Salvati M, et al. **Ital J Neurol Sci** 1997 Jun;18(3):173-5

Gene therapy for neurologic disease: benchtop discoveries to bedside applications. 2. The bedside. Maria BL, et al. **J Child Neurol** 1997 Feb;12(2):77-84 (54 ref.)

Treatment of brain metastases in patients with testicular cancer. Bokemeyer C, et al. **J Clin Oncol** 1997 Apr; 15(4):1449-54

Pilot study of high-dose thiotepa and etoposide with autologous bone marrow rescue in children and young adults with recurrent CNS tumors. The Children's Cancer Group. Finlay JL, et al. **J Clin Oncol** 1996 Sep; 14(9):2495-503

High-dose chemotherapy with autologous stem-cell rescue in patients with recurrent and high-risk pediatric brain tumors. Graham ML, et al. **J Clin Oncol** 1997 May; 15(5):1814-23

Laser-induced thermal lesions in the human brain: short- and long-term appearance on MRI. Schwabe B, et al. **J Comput Assist Tomogr** 1997 Sep-Oct;21(5):818-25

Successful multidisciplinary treatment of an endodermal sinus tumor of the pineal region. Lu K, et al. **J Formos Med Assoc** 1996 Aug;95(8):646-9

Cure of established, intracerebral rat gliomas induced by therapeutic immunizations with tumor cells and purified APC or adjuvant IFN-gamma treatment. Siesjö P, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):334-45

Systemic and local paracrine cytokine therapies using transduced tumor cells are synergistic in treating intracranial tumors. Thompson RC, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):405-13

Brain metastases from unknown primary site. Khansur T, et al. **J Miss State Med Assoc** 1997 Jul;38(7):238-42

Advantage of treating anaplastic gliomas with aggressive protocol combining chemotherapy and radiotherapy. Boiardi A, et al. **J Neurooncol** 1997 Sep;34(2):179-85

Treatment of infants with malignant gliomas: the Pediatric Oncology Group experience. Duffner PK, et al. **J Neurooncol** 1996 May-Jun;28(2-3):245-56 (31 ref.)

Randomized trial of radiation therapy (RT) plus dibromodulcitol (DBD) versus RT plus BCNU in high grade astrocytoma. Elliott TE, et al. **J Neurooncol** 1997 Jul;33(3):239-50

Treatment of recurrent malignant glioma with BCNU-fluosol and oxygen inhalation. A phase I-II study. Hochberg F, et al. **J Neurooncol** 1997 Mar;32(1):45-55

Strategies in the treatment of diffuse pontine gliomas: the therapeutic role of hyperfractionated radiotherapy and chemotherapy. Jennings MT, et al. **J Neurooncol** 1996 May-Jun;28(2-3):207-22 (122 ref.)

Preferential radiosensitization of 9L glioma cells transduced with HSV-tk gene by acyclovir. Kim SH, et al. **J Neurooncol** 1997 Jul;33(3):189-94

Therapy-related chromosomal changes and cytogenetic heterogeneity in human gliomas. Lai YS, et al. **J Neurooncol** 1997 Mar;32(1):7-17

Low-grade gliomas: introduction and overview. Piepmeier JM, et al. **J Neurooncol** 1997 Aug;34(1):1-3 (26 ref.)

Special issues in the management of gliomas in children with neurofibromatosis 1. Pollack IF, et al. **J Neurooncol** 1996 May-Jun;28(2-3):257-68 (64 ref.)

Gene therapy for PNET. Raffel C. **J Neurooncol** 1996 Jul; 29(1):113-8 (38 ref.)

Improved prognosis of intracranial non-germinoma germ cell tumors with multimodality therapy. Robertson PL, et al. **J Neurooncol** 1997 Mar;32(1):71-80

Cognitive dysfunction following surgery for intracerebral glioma: influence of histopathology, lesion location, and treatment. Scheibel RS, et al. **J Neurooncol** 1996 Oct; 30(1):61-9

Clinical trial of external beam-radiotherapy combined with daily administration of low-dose cisplatin for supratentorial glioblastoma multiforme--a pilot study. Shinoda J, et al. **J Neurooncol** 1997 Oct;35(1):73-80

Current treatment of thalamic gliomas in children. Souweidane MM, et al. **J Neurooncol** 1996 May-Jun; 28(2-3):157-66 (58 ref.)

Toxicity studies in thymidine kinase-deficient herpes simplex virus therapy for malignant astrocytoma. Jia WW, et al. **J Neurosurg** 1996 Oct;85(4):662-6

Anaplastic ependymoma: treatment of pediatric patients with or without craniospinal radiation therapy. Merchant TE, et al. **J Neurosurg** 1997 Jun;86(6):943-9

Treatment of leptomeningeal metastases in a rat model using a recombinant adenovirus containing the HSV-tk gene. Vincent AJ, et al. **J Neurosurg** 1996 Oct;85(4):648-54

Induction of specific cytotoxic T lymphocytes against autologous brain tumor by crossreactive allo-tumor cell stimulation. Saitoh S, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):289-95

The cytocidal activity of OK-432-activated mononuclear cells against human glioma cells is partly mediated through the Fas ligand/Fas system. Toda K, et al. **Jpn J Cancer Res** 1996 Sep;87(9):972-6

Efficient retrovirus-mediated cytokine-gene transduction of primary-cultured human glioma cells for tumor vaccination therapy. Wakimoto H, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):296-305

Experimental studies of stereotactic laser balloon hyperthermic treatment. Hara M, et al. **Lasers Surg Med** 1997;20(2):195-201

Monitoring brain tumor response to therapy using MRI segmentation. Vaidyanathan M, et al. **Magn Reson Imaging** 1997;15(3):323-34

Multidisciplinary approach to malignant gliomas. Saris S. **Med Health R I** 1996 Jun;79(6):210-3 (11 ref.)

Intracranial Hodgkin's disease in two patients with familial Hodgkin's disease. Ashigbi MY, et al. **Med Pediatr Oncol** 1997 Apr;28(4):255-8

Systematic approach for detection of endocrine disorders in children treated for brain tumors. Meacham LR, et al. **Med Pediatr Oncol** 1997 Aug;29(2):86-91 (30 ref.)

Analyses of prognostic factors in a retrospective review of 92 children with ependymoma: Italian Pediatric Neuro-oncology Group. Perilongo G, et al. **Med Pediatr Oncol** 1997 Aug;29(2):79-85

Application of United States advance directives on Italian soil. Kinney ML, et al. **Mil Med** 1997 Aug;162(8):571-2

Researchers to throw antisense against brain tumors [news] Veggeberg S. **Mol Med Today** 1996 Feb;2(2):48

Clinical problem-solving. When too much is too little [see comments] Morrison RS, et al. **N Engl J Med** 1996 Dec 5;335(23):1755-9. Comment in: N Engl J Med 1997 May 15;336(20):1458; discussion 1459. Comment in: N Engl J Med 1997 May 15;336(20):1458-9; discussion 1459. Comment in: N Engl J Med 1997 May 15;336(20):1459.

Effect of the combination of cisplatinum and radiation in the rabbit's brain. Schiffer J, et al. **Neurol Res** 1996 Oct; 18(5):454-6

Novel gene therapeutic approaches for brain tumours. Couraud PO, et al. **Neuropathol Appl Neurobiol** 1996 Oct; 22(5):429-33 (38 ref.)

Therapeutic approaches to primary and secondary brain tumours. Whittle IR. **Neuropathol Appl Neurobiol** 1996 Oct; 22(5):424-9 (36 ref.)

Clinical decision making in brain metastases. Arbit E, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):447-57 (79 ref.)

Medical management of cerebral metastases. Batchelor T, et al. **Neurosurg Clin N Am** 1996 Jul;7(3):435-46 (117 ref.)

Recommendations for treatment of brain metastases. Thornton AF, et al. **Neurosurg Clin N Am** 1996 Jul; 7(3):559-64

A phase I study of an anti-epidermal growth factor receptor monoclonal antibody for the treatment of malignant gliomas. Faillot T, et al. **Neurosurgery** 1996 Sep;

39(3):478–83

Preoperative embolization of highly vascular brain tumors: clinical and histopathological findings. Kuroiwa T, et al. **Noshuyo Byori** 1996 Apr;13(1):27–36

Effects of ectopic overexpression of p21(WAF1/CIP1) on aneuploidy and the malignant phenotype of human brain tumor cells. Chen J, et al. **Oncogene** 1996 Oct 3; 13(7):1395–403

Brain tumors. Challenges and directions. Kun LE. **Pediatr Clin North Am** 1997 Aug;44(4):907–17 (47 ref.)

Two unusual recurrences of intracranial germinoma. Strojan P, et al. **Pediatr Hematol Oncol** 1996 Jul–Aug;13(4):381–5

Alternative therapies for children with brain stem gliomas: immunotherapy and gene therapy. Packer RJ. **Pediatr Neurosurg** 1996;24(4):217–22 (21 ref.)

The application of genetically engineered herpes simplex viruses to the treatment of experimental brain tumors. Andreansky SS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11313–8 (53 ref.)

Thermal effects of focused ultrasound on the brain: determination with MR imaging. Hynynen K, et al. **Radiology** 1997 Jul;204(1):247–53

Weekly paclitaxel with and without concurrent radiation therapy: toxicity, pharmacokinetics, and response. Glantz MJ, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):128–35

Treatment of melanoma metastases in the brain. Ewend MG, et al. **Semin Surg Oncol** 1996 Nov–Dec;12(6):429–35 (48 ref.)

Stereotactic high-activity brachytherapy for malignant intra-axial brain tumors. Status report as of March, 1995. Bernstein M, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):167–70 (9 ref.)

Interstitial laser thermotherapy: developments in the treatment of small deep-seated brain tumors. Menovsky T, et al. **Surg Neurol** 1996 Dec;46(6):568–71; discussion 571–2 (36 ref.)

New approach for the treatment of medulloblastoma by transfection with glial fibrillary acidic protein gene. Sadatomo T, et al. **Surg Oncol** 1996 Apr;5(2):69–75

Intrathecal allograft of chromaffin cells for intractable pain treatment: a model for understanding CNS tolerance mechanisms in humans. Tkaczuk J, et al. **Transplant Proc** 1997 Aug;29(5):2356–7

Treatment of brain metastases from hypernephroma. Nieder C, et al. **Urol Int** 1996;57(1):17–20

Treatment of tumors of the brain [see comments] Krouwer HG, et al. **Wis Med J** 1996 Dec;95(12):852–9 (32 ref.). Comment in: Wis Med J 1996 Dec;95(12):851.

[Gene therapy of malignant brain tumors (editorial) (see comments)] Astrup J, et al. **Ugeskr Laeger** 1997 Jan 27; 159(5):561. Comment in: Ugeskr Laeger 1997 Apr 28;159(18):2721. **(Dan)**

[Gene therapy of malignant brain tumors? (letter; comment)] Krarup-Hansen A. **Ugeskr Laeger** 1997 Apr 28; 159(18):2721. Comment on: Ugeskr Laeger 1997 Jan 27;159(5):561. **(Dan)**

[Activity of radiosurgery. The SFRO 1995-survey] Kantor G. **Bull Cancer Radiother** 1996;83(3):180–4 **(Fre)**

[Differential therapy of cerebral angiomas] Grzyska U, et al. **Wien Med Wochenschr** 1997;147(7–8):186–93 (50 ref.) (Eng. Abstr.) **(Ger)**

[Management of increased intracranial pressure in metastatic brain tumor] Muragaki Y, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):297–302 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Diagnosis and treatment of metastatic brain tumor] Nakagawa H, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(10):1235–47 (50 ref.) (Eng. Abstr.) **(Jpn)**

[Gene therapy for brain tumors] Mizuno M, et al. **Nippon Rinsho** 1997 Jul;55(7):1853–60 (23 ref.) (Eng. Abstr.) **(Jpn)**

[Antitumor effect of intra-arterial tumor necrosis factor-alpha in rats with transplanted intracerebral glioma and its evaluation by MRI] Harada K, et al. **No Shinkei Geka** 1995 Dec;23(12):1069–74 (Eng. Abstr.) **(Jpn)**

[Primary cerebral tumors: the reality and the molecular basis of future treatment] Rosenfeld MR, et al. **Neurologia** 1997 May;12(5):185–96 (115 ref.) **(Spa)**

[Gene therapy of glioblastomas] Izquierdo M, et al. **Rev Neurol** 1996 Mar;24(127):325–8 **(Spa)**

ULTRASONOGRAPHY

Correlation of intra-operative ultrasound with histopathologic findings after tumour resection in supratentorial gliomas. A method to improve gross total tumour resection. Woydt M, et al. **Acta Neurochir (Wien)** 1996;138(12):1391–8

Brain hemangiomas of infancy. Sonographic detection and follow-up. Hundt C, et al. **J Neuroimaging** 1997 Apr; 7(2):81–5

US case of the day. Lipoma and hypogenesis of the corpus callosum. Multz MA, et al. **Radiographics** 1996 Sep; 16(5):1227–30

Ophthalmic, ultrasonographic findings in primary central nervous system lymphoma with ocular involvement. Ursea R, et al. **Retina** 1997;17(2):118–23

Preoperative and postoperative follow-up in high-grade gliomas: comparison of transcranial color-coded real-time sonography and computed tomography findings. Becker G, et al. **Ultrasound Med Biol** 1995;21(9):1123–35

[Intraoperative ultrasonography of brain tumors] Szczerbicki M, et al. **Neurol Neurochir Pol** 1996 Sep–Oct;30(5):831–8 (Eng. Abstr.) **(Pol)**

ULTRASTRUCTURE

Localization of voltage-sensitive Ca2+ fluxes and neuropeptide Y immunoreactivity to varicosities in SH-SY5Y human neuroblastoma cells differentiated by treatment with the protein kinase inhibitor staurosporine. Kukkonen JP, et al. **Eur J Neurosci** 1997 Jan;9(1):140–50

Nucleolar organizing regions in primary intracranial malignant lymphomas. Karasawa K, et al. **J Neurooncol** 1997 Oct;35(1):1–6

Therapy-related chromosomal changes and cytogenetic heterogeneity in human gliomas. Lai YS, et al. **J Neurooncol** 1997 Mar;32(1):7–17

Glomeruloid vascular structures in glioblastoma multiforme: an immunohistochemical and ultrastructural study. Rojiani AM, et al. **J Neurosurg** 1996 Dec;85(6):1078–84

Changes of intermediate filaments in cultured human glioma cells with various growth factors and cytokines using high voltage immunoelectron microscopy. Taomoto K, et al. **Noshuyo Byori** 1996 Apr;13(1):49–56

Ultrastructural and morphometric investigation of human brain capillaries in normal and peritumoral tissues. Bertossi M, et al. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):41–9

Unique intracerebral tumor with divergent differentiation in a patient presenting as NF2: report of a case with features of astrocytoma, ependymoma, and PNET. Jay V, et al. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):57–71

Tanycytic ependymoma. Langford LA, et al. **Ultrastruct Pathol** 1997 Mar–Apr;21(2):135–42

Ultrastructural characteristics of central neurocytoma in cell culture. Lee MC, et al. **Ultrastruct Pathol** 1997 Jul–Aug; 21(4):393–404

Ultrastructural pathology of glial brain tumors revisited: a review. Liberski PP, et al. **Ultrastruct Pathol** 1997 Jan–Feb; 21(1):1–31 (94 ref.)

[An ultrastructural study of the ependymoma cells and cells of the ventric zone and neural canal of embryonic brain] Hang Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):96–8 (Eng. Abstr.) **(Chi)**

[AgNOR analysis of astrocytoma in childhood] Haberland C, et al. **Zentralbl Neurochir** 1996;57(1):5–11 (Eng. Abstr.) **(Ger)**

[Histogenesis of central neurocytoma: an immunohistochemical and electronmicroscopic study of four cases] Akimoto J, et al. **No Shinkei Geka** 1995 Dec; 23(12):1083–91 (Eng. Abstr.) **(Jpn)**

VETERINARY

Intracranial tumours in Syrian golden hamsters. Kamino K, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):29–32

Meningioangiomatosis in the brain stem of a dog. Pumarola M, et al. **J Comp Pathol** 1996 Aug;115(2):197–201

Fibrillary astrocytoma in a goat: pathologic, immunohistochemical, and ultrastructural study. Martín de las Mulas J, et al. **J Vet Diagn Invest** 1996 Jul;8(3):387–9

Intracranial squamous cell carcinoma causing Horner's syndrome in a cow. Pace LW, et al. **J Vet Diagn Invest** 1997 Jan;9(1):106–8

Primary brain tumors in two dogs treated by surgical resection in combination with postoperative radiation therapy. Nakaichi M, et al. **J Vet Med Sci** 1996 Aug; 58(8):773–5

X-ray phototherapy for canine brain masses. Norman A, et al. **Radiat Oncol Investig** 1997;5(1):8–14

Identification and management of brain tumors. Kraus KH, et al. **Semin Vet Med Surg (Small Anim)** 1996 Nov; 11(4):218–24 (14 ref.)

Intracranial tumors. Moore MP, et al. **Vet Clin North Am Small Anim Pract** 1996 Jul;26(4):759–77 (72 ref.)

Equine papillary ependymoma. Carrigan MJ, et al. **Vet Pathol** 1996 Jan;33(1):77–80

Malignant intracranial teratoma in a juvenile Wistar rat. Reindel J, et al. **Vet Pathol** 1996 Jul;33(4):462–5

Rhabdoid tumor in the brain of a dog. Steele KE, et al. **Vet Pathol** 1997 Jul;34(4):359–63

[Metastasis of a mammary carcinoma in the central nervous system of a cat] Atasever A, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Nov;103(11):472–4 (Eng. Abstr.) **(Ger)**

VIROLOGY

Multiplex PCR for diagnosis of AIDS-related central nervous system lymphoma and toxoplasmosis. Roberts TC, et al. **J Clin Microbiol** 1997 Jan;35(1):268–9

Viruses and oncogenes in brain tumors. Archer GE, et al. **J Neurovirol** 1997 May;3 Suppl 1:S76–7 (7 ref.)

SV40 and human brain tumors. Butel JS, et al. **J Neurovirol** 1997 May;3 Suppl 1:S78–9 (5 ref.)

Lung squamous cell carcinoma presenting with brain metastases in an HIV-positive patient. Kosmopoulou O, et al. **Lung Cancer** 1996 Sep;15(2):245–9

Mycobacterium tuberculosis enhances iNOS mRNA expression and HIV replication in human astrocytoma cells. Persichini T, et al. **Neuroreport** 1997 May 27;8(8):1897–901

R7, a spontaneous mutant of Moloney murine sarcoma virus 124 with three direct repeats and an in-frame truncated gag-mos gene, induces brain lesions. Yuen PH, et al. **Virology** 1997 Sep 15;236(1):213–8

BRAIN REVASCULARIZATION see **CEREBRAL REVASCULARIZATION**

BRAIN STEM

Room tilt illusion. A central otolith dysfunction. Tiliket C, et al. **Arch Neurol** 1996 Dec;53(12):1259–64

Intrinsic brainstem tumours in childhood: a report of 35 children followed for a minimum of 5 years. Chitnavis B, et al. **Br J Neurosurg** 1997 Jun;11(3):206–9

Multicystic lesions of the brainstem. Reply to Dr Poirier [letter; comment] Schroeder HW, et al. **Br J Neurosurg** 1997 Jun;11(3):265. Comment on: Br J Neurosurg 1997 Feb;11(1):87–8.

Brainstem anaesthesia after peribulbar anaesthesia. Gomez RS, et al. **Can J Anaesth** 1997 Jul;44(7):732–4

Too close for comfort? A family physician questions whether medical professionals should be excluded from their loved ones' care [see comments] Klein MC. **Can Med Assoc J** 1997 Jan 1;156(1):53–5. Comment in: Can Med Assoc J 1997 May 15;156(10):1377.

Blink reflex in meningomyelocele, with special reference to its usefulness in the evaluation of brainstem dysfunction. Nishimura T, et al. **Childs Nerv Syst** 1996 Jan;12(1):2–12

UKCCSG study of accelerated radiotherapy for pediatric brain stem gliomas. United Kingdom Childhood Cancer Study Group. Lewis J, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):925–9

Alpha-pattern coma in primary brainstem hemorrhage; clinical, electrophysiologic, and cerebral blood flow studies. Hayashi R, et al. **Intern Med** 1996 Nov;35(11):905–8

Jugular foramen neurilemmoma mimicking an intra-axial brainstem tumor—a case report. Lee YB, et al. **J Korean Med Sci** 1996 Jun;11(3):282–4

Surgical indication and technical considerations in the management of benign brain stem gliomas. Constantini S, et al. **J Neurooncol** 1996 May–Jun;28(2–3):193–205 (77 ref.)

Primary intrinsic brainstem oligodendroglioma in an adult. Case report and review of the literature. Alvarez JA, et al. **J Neurosurg** 1996 Dec;85(6):1165–9

Peripheral nerve or brainstem glioblastoma [letter; comment] Fernandez E. **J Neurosurg** 1997 Apr;86(4):739–41. Comment on: J Neurosurg 1996 Jun;84(6):1062–6.

Brain stem death. Evans DW. **J R Coll Physicians Lond** 1996 Jan–Feb;30(1):88–90

Lyme neuroborreliosis masquerading as a brainstem tumor in a 15-year-old. Curless RG, et al. **Pediatr Neurol** 1996 Oct;15(3):258–60

Dysphagia, dysarthria and falls in an elderly man. McGleenon B, et al. **Postgrad Med J** 1997 Jun; 73(860):321–2

Relative numbers of cortical and brainstem inputs to the lateral geniculate nucleus. Erişir A, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1517–20

A clinical case of neuro-Behçet syndrome without mucocutaneo-ocular symptoms: relationship with brain stem encephalitis. Kawanishi Y, et al. **Psychiatry Clin Neurosci** 1995 Dec;49(5–6):263–6

Total removal of a primary intracranial squamous cell carcinoma invading the brain stem. Ogata N, et al. **Surg Neurol** 1996 Nov;46(5):477–80

[Long-term results of multi-channel stimulation of the cochlear nucleus with auditory brain stem prostheses] Marangos N, et al. **Wien Med Wochenschr** 1997; 147(10):259–63 (Eng. Abstr.) **(Ger)**

[Image diagnosis and functional tests--vertigo due to cerebellar and brain stem disorders] Kitamura T. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul;99(7):1036–9 (9 ref.) **(Jpn)**

[Important nervous system infections--brain stem encephalitis] Hirabayashi K, et al. **Nippon Naika Gakkai Zasshi** 1996 May 10;85(5):720–4 (5 ref.) **(Jpn)**

[Brain stem encephalitis related with viral infection] Hirabayashi K. **Nippon Rinsho** 1997 Apr;55(4):945–8 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Brain stem glioma presenting with contralateral sensory impairment of ascending nature] Ikeda T, et al. **No To Shinkei** 1997 Jun;49(6):547–51 (Eng. Abstr.) **(Jpn)**

[Fulminant cerebello-brainstem encephalitis with polyradiculitis following probable Epstein-Barr virus infection] Koguchi Y, et al. **Rinsho Shinkeigaku** 1996 Nov; 36(11):1225–8 (Eng. Abstr.) **(Jpn)**

[Brainstem hemorrhage after surgical removal of arachnoid cyst of the Sylvian fissure: a case report] Borges G, et al. **Arq Neuropsiquiatr** 1995 Dec;53(4):825–30 (Eng. Abstr.) **(Por)**

[Local destruction of Deiters' lateral vestibular nucleus (an experimental model of a focal brain stem lesion)] Sharova EV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun;46(3):583–91 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

A case of cranial meningocele associated with Joubert syndrome. Suzuki T, et al. **Childs Nerv Syst** 1996 May; 12(5):280–2

Brainstem, cerebellar and limbic neuroanatomical abnormalities in autism. Courchesne E. **Curr Opin Neurobiol** 1997 Apr;7(2):269–78 (67 ref.)

Abnormalities in the cerebellum and brainstem in homozygous lurcher mice. Resibois A, et al.

Neuroscience 1997 Sep;80(1):175-90

ANATOMY & HISTOLOGY

Morphometric analysis of the human vestibular nuclei. Suárez C, et al. **Anat Rec** 1997 Feb;247(2):271-88

Evidence for GAP-43 within descending spinal axons in the North American opossum, Didelphis virginiana. Zou XC, et al. **Brain Behav Evol** 1996;47(4):200-13

The origin of brainstem-spinal pathways in the North American opossum (Didelphis virginiana). Studies using the horseradish peroxidase method. Crutcher KA, et al. **J Comp Neurol** 1978 May 1;179(1):169-93

Brainstem connections of the macula lagenae in the chicken. Kaiser A, et al. **J Comp Neurol** 1996 Oct 7;374(1):108-17

Secondary connections of the dorsal and ventral facial lobes in a teleost fish, the rockling (Ciliata mustela). Kotrschal K, et al. **J Comp Neurol** 1996 Jul 8;370(4):415-26

Activation by hypotension of neurons in the hypothalamic paraventricular nucleus that project to the brainstem. Krukoff TL, et al. **J Comp Neurol** 1997 Aug 25; 385(2):285-96

Projections from the cervical enlargement to the cerebellar nuclei in the rat, studied by anterograde axonal tracing. Matsushita M, et al. **J Comp Neurol** 1997 Jan 13; 377(2):251-61

Distribution and connections of inspiratory premotor neurons in the brainstem of the pigeon (Columba livia). Reinke H, et al. **J Comp Neurol** 1997 Mar 17;379(3):347-62

Peripheral and central predictors of whisker afferent morphology in the rat brainstem. Shortland PJ, et al. **J Comp Neurol** 1996 Nov 18;375(3):481-501

Projections of the dorsomedial nucleus of the intercollicular complex (DM) in relation to respiratory-vocal nuclei in the brainstem of pigeon (Columba livia) and zebra finch (Taeniopygia guttata). Wild JM, et al. **J Comp Neurol** 1997 Jan 20;377(3):392-413

Connections between the vestibular nuclei and brain stem regions that mediate autonomic function in the rat. Porter JD, et al. **J Vestib Res** 1997 Jan-Feb;7(1):63-76

Control pathways from the basal ganglia to the orofacial motor system in the lower brainstem. Yasui Y, et al. **Kaibogaku Zasshi** 1996 Jun;71(3):177-82 (22 ref.)

Arterial territories of human brain: brainstem and cerebellum. Tatu L, et al. **Neurology** 1996 Nov;47(5):1125-35 (37 ref.)

Organization of face representation in the cingulate cortex of the rhesus monkey. Morecraft RJ, et al. **Neuroreport** 1996 May 31;7(8):1343-8

Quantitative morphology of physiologically identified and intracellularly labeled neurons from the guinea-pig laterodorsal tegmental nucleus in vitro. Surkis A, et al. **Neuroscience** 1996 Sep;74(2):375-92

Differential effects of peripheral manipulations on vibrissae-related patterns in the trigeminal brainstem. Chiaia NL, et al. **Somatosens Mot Res** 1996;13(2):81-93

Structure-function relationships in rat brainstem subnucleus interpolaris: XII. neonatal deafferentation effects on cell morphology. Jacquin MF, et al. **Somatosens Mot Res** 1995; 12(3-4):209-33

Trigeminal structure-function relationships: a reevaluation based on long-range staining of a large sample of brainstem a beta fibers. Shortland PJ, et al. **Somatosens Mot Res** 1995; 12(3-4):249-75

Hypoglossal afferents to lamina I neurons of the cervical spinal cord projecting to the parabrachial nucleus in the cat. Takeuchi Y, et al. **Somatosens Mot Res** 1995; 12(3-4):191-8

BLOOD SUPPLY

Abnormal heart rate variability reflecting autonomic dysfunction in brainstem infarction. Korpelainen JT, et al. **Acta Neurol Scand** 1996 Nov;94(5):337-42

The influence of unilateral vertebral artery occlusion on brainstem and inner ear blood flow in rat. Ueda T, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):742-6

Cervical myelopathy associated with intracranial dural arteriovenous fistula: MR findings before and after treatment. Ernst RJ, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1330-4

Role of ATP-sensitive potassium channels in brain stem circulation during hypotension. Toyoda K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1342-6

Changes in arterioles, arteries, and local perfusion of the brain stem during hemorrhagic hypertension. Toyoda K, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1350-4

Persistent trigeminal artery as a cause of dizziness. Battista RA, et al. **Ear Nose Throat J** 1997 Jan;76(1):43-5 (18 ref.)

Morphology of human brain stem venous vessels in fetal period. Kędzia A. **Folia Histochem Cytobiol** 1996;34 Suppl 1:59-60

Changes in dorsal cochlear nucleus blood flow during noise exposure. Mandal A, et al. **Hear Res** 1997 Apr;106(1-2):1-8

Response of tracheal smooth muscle tone to lower brain stem hypoxia in dogs. Suzuki I, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):136-40

Effect of aging on regulation of brain stem circulation during hypotension. Toyoda K, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):680-5

Vulnerability of the infant brain stem to ischemia: a possible cause of sudden infant death syndrome. Pamphlett R, et al. **J Child Neurol** 1996 May;11(3):181-4

The role of transcranial Doppler sonography in the identification of patients at risk of cerebral and brainstem ischemia. Terenzi TJ, et al. **J Manipulative Physiol Ther** 1996 Jul-Aug;19(6):406-14 (61 ref.)

Episodic undulating hyperkinesias of the tongue associated with brainstem ischemia. Postert T, et al. **Mov Disord** 1997 Jul;12(4):619-21 (13 ref.)

The protective effects of alpha-melanocyte stimulating hormone on canine brain stem ischemia. Huh SK, et al. **Neurosurgery** 1997 Jan;40(1):132-9; discussion 139-40

Brainstem hypoperfusion in CFS [letter; comment] Nixon PG. **QJM** 1996 Feb;89(2):163-4. Comment on: QJM 1995 Nov;88(11):767-73.

CO2 response for the brain stem artery blood flow velocity in man. Hida W, et al. **Respir Physiol** 1996 Apr-May; 104(1):71-5

Age-related changes in response of brain stem vessels to opening of ATP-sensitive potassium channels. Toyoda K, et al. **Stroke** 1997 Jan;28(1):171-5

[Angiographically occult vascular malformations of the brain stem. Apropos of 25 cases] Bouillot P, et al. **Neurochirurgie** 1996;42(4-5):189-200; discussion 200-1 (50 ref.) (Eng. Abstr.) **(Fre)**

[Fatal brain stem infarction due to rupture of a brain abscess: a case report] Kon H, et al. **No Shinkei Geka** 1997 May; 25(5):455-9 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Polyamines increase in the brain stem and cerebellum following labyrinthectomy. Kim HJ, et al. **Am J Otol** 1997 Mar;18(2):214-22

Programming of brainstem serotonin transporter development by prenatal glucocorticoids. Slotkin TA, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):155-61

Presence of somatostatin sst2 receptors in the developing rat auditory system. Thoss VS, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):269-78

Changes in blood volume and pressure induce c-fos expression in brainstem neurons that project to the paraventricular nucleus of the hypothalamus. Krukoff TL, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):99-108

High levels of specific neuropeptide Y/pancreatic polypeptide receptors in the rat hypothalamus and brainstem. Trinh T, et al. **Eur J Pharmacol** 1996 Dec 27; 318(1):R1-3

Differential abundance of glutamate transporter subtypes in amyotrophic lateral sclerosis (ALS)-vulnerable versus ALS-resistant brain stem motor cell groups. Medina L, et al. **Exp Neurol** 1996 Dec;142(2):287-95

Aqueous two-phase partition of complex protein feedstocks derived from brain tissue homogenates. Walker SG, et al. **J Chromatogr B Biomed Appl** 1996 May 17;680(1-2):91-6

Distribution of GABAA, GABAB, and glycine receptors in the central auditory system of the big brown bat, Eptesicus fuscus. Fubara BM, et al. **J Comp Neurol** 1996 May 20;369(1):83-92

Developmental alterations in 5-hydroxytryptamine concentration and turnover after treatment of neonatal rats with 5,7-dihydroxytryptamine. Mercugliano M, et al. **Neurobiol Learn Mem** 1996 Mar;65(2):163-76

CYTOLOGY

Participation of periolivary neurons in the auditory brainstem circuitry. A Golgi, tracer and degeneration study. Kiss A, et al. **Acta Biol Hung** 1996;47(1-4):207-20

The projections to the spinal cord of the rat during development: a timetable of descent. Lakke EA. **Adv Anat Embryol Cell Biol** 1997;135:I-XIV, 1-143 (456 ref.)

Rostrocaudal and ventrodorsal change in neuronal cell size in human medial vestibular nucleus. Díaz C, et al. **Anat Rec** 1996 Nov;246(3):403-9

Morphometric analysis of the human vestibular nuclei. Suárez C, et al. **Anat Rec** 1997 Feb;247(2):271-88

Membrane properties of area postrema neurons. Hay M, et al. **Brain Res** 1995 Dec 24;705(1-2):199-208

Neurones projecting to the hypothalamus from the brainstem A1 catecholaminergic cell group express glutamate-R2,3 receptor immunoreactivity. Larsen PJ, et al. **Brain Res** 1995 Dec 24;705(1-2):209-15

Brainstem origin of preganglionic cardiac motoneurons in the muskrat. Panneton WM, et al. **Brain Res** 1996 Nov 4;738(2):342-6

Prearcuate cortex in the Cebus monkey has cortical and subcortical connections like the macaque frontal eye field and projects to fastigial-recipient oculomotor-related brainstem nuclei. Leichnetz GR, et al. **Brain Res Bull** 1996; 41(1):1-29

Appearance of neuronal S-100 beta during development of the rat brain. Yang Q, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):181-9

Leptin activates neurons in ventrobasal hypothalamus and brainstem. Elmquist JK, et al. **Endocrinology** 1997 Feb; 138(2):839-42

Maturation of fetal human neural xenografts in the adult rat brain. Belkadi AM, et al. **Exp Neurol** 1997 Apr; 144(2):369-80

Delivery of recombinant tetanus-superoxide dismutase proteins to central nervous system neurons by retrograde axonal transport. Figueiredo DM, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):546-54

Dopamine-beta-hydroxylase and tyrosine hydroxylase immunoreactive neurons in the human brainstem. Kitahama K, et al. **J Chem Neuroanat** 1996 Apr;10(2):137-46

The organization of monoamine neurons within the brainstem of the North American opossum (Didelphis virginiana). Crutcher KA, et al. **J Comp Neurol** 1978 May 1; 179(1):195-221

Lower brainstem catecholamine afferents to the rat dorsal raphe nucleus. Peyron C, et al. **J Comp Neurol** 1996 Jan 15;364(3):402-413

A selective role of brainstem noradrenergic neurons in oxytocin release from the neurohypophysis following noxious stimuli in the rat. Onaka T, et al. **Neurosci Res** 1996 May;25(1):67-75

The early neuronal organization predicts the path followed by some major axonal bundles in the embryonic brainstem. Bélanger MC, et al. **Neuroscience** 1997 May;78(1):259-70

Infraorbital nerve transection and whisker follicle removal in adult rats affect microglia and astrocytes in the trigeminal brainstem. A study with lipocortin1- and S100beta-immunohistochemistry. Melzer P, et al. **Neuroscience** 1997 Sep;80(2):459-72

[The individual characteristics of the cytoarchitectonics of subcortical-stem formations in the human brain] Amunts VV. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997; 97(3):49-52 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Comparative study of chronic aluminum-induced neurofilamentous aggregates with intracytoplasmic inclusions of amyotrophic lateral sclerosis. Wakayama I, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):545-54

c-Fos induction in rat brainstem in response to ethanol- and lithium chloride-induced conditioned taste aversions. Thiele TE, et al. **Alcohol Clin Exp Res** 1996 Sep; 20(6):1023-8

Lesions of the lateral parabrachial nucleus block the aversive motivational effects of both morphine and morphine withdrawal but spare morphine's discriminative properties. Nader K, et al. **Behav Neurosci** 1996 Dec;110(6):1496-502

Endotoxin administration induced differential neurochemical activation of the rat brain stem nuclei. Molina-Holgado F, et al. **Brain Res Bull** 1996;40(3):151-6

Cranial nerves and ganglia are altered after in vitro treatment of mouse embryos with valproic acid (VPA) and 4-en-VPA. Gofflot F, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):62-9

Modulation of angiotensin II type 2 receptor mRNA in rat hypothalamus and brainstem neuronal cultures by growth factors. Huang XC, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):229-36

Difficult intubation and brain-stem anaesthesia. Ananthanarayan C, et al. **Can J Anaesth** 1997 Jun; 44(6):658-61

Brain-stem anesthesia following retrobulbar anesthesia: case report and possible pathophysiologic mechanism. Mandelcorn MS, et al. **Can J Ophthalmol** 1996 Feb; 31(1):24-6

Direct evidence for central sites of action of zolmitriptan (311C90): an autoradiographic study in cat [see comments] Goadsby PJ, et al. **Cephalalgia** 1997 May;17(3):153-8. Comment in: Cephalalgia 1997 May;17(3):143.

Modulatory effects of nitric oxide on baroreflex activation in the brainstem nuclei of rats. Lo WJ, et al. **Chin J Physiol** 1996;39(1):57-62

Serotonin syndrome and drug combinations: focus on MAOI and RIMA. Hilton SE, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(3):113-9 (49 ref.)

Effect of neonatal axoplasmic transport attenuation in the infraorbital nerve on vibrissae-related patterns in the rat's brainstem, thalamus and cortex. Chiaia NL, et al. **Eur J Neurosci** 1996 Aug;8(8):1601-12

Effects of substance P on medial vestibular nucleus neurons in guinea-pig brainstem slices. Vibert N, et al. **Eur J Neurosci** 1996 May;8(5):1030-6

Tachykinins and central respiratory activity: an in vitro study on the newborn rat. Monteau R, et al. **Eur J Pharmacol** 1996 Oct 24;314(1-2):41-50

Gastric effects of mu-, delta- and kappa-opioid receptor agonists on brainstem unitary responses in the neonatal rat. Yuan CS. **Eur J Pharmacol** 1996 Oct 24;314(1-2):27-32

Effects of bioamines and peptides on neurones in the ventral nucleus of trapezoid body and rostral periolivary regions of the rat superior olivary complex: an in vitro investigation. Wang X, et al. **Hear Res** 1997 Apr; 106(1-2):20-8

Dextrorphan effects on cocaine and brainstem perturbation. Lundien M, et al. **Integr Physiol Behav Sci** 1996 Jul-Sep; 31(3):224-30

Electrophysiological studies in patients with blepharospasm before and after botulinum toxin A therapy. Behari M, et al. **J Neurol Sci** 1996 Jan;135(1):74-7

Glutamate modulates intracellular Ca2+ stores in brain stem auditory neurons. Kato BM, et al. **J Neurophysiol** 1996 Jul;76(1):646-50

Inhibition of transmitter release shortens the duration of the excitatory synaptic current at a calyceal synapse. Otis TS, et al. **J Neurophysiol** 1996 Nov;76(5):3584-8

Mechanisms underlying the chronotropic effect of angiotensin II on cultured neurons from rat hypothalamus and brain stem. Wang D, et al. **J Neurophysiol** 1997 Aug;

78(2):1013–20

Regulation of GABA(A) receptor subunit mRNA expression by the pesticide dieldrin in embryonic brainstem cultures: a quantitative, competitive reverse transcription–polymerase chain reaction study. Liu J, et al. **J Neurosci Res** 1997 Sep 1;49(5):645–53

Opposing effects of vasoactive intestinal polypeptide on gastric motor function in the dorsal vagal complex and the nucleus raphe obscurus of the rat. Krowicki ZK, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):14–22

Auditory brainstem response (ABR) and effects of furosemide on ABR in conscious F344 rats. Ozaki H, et al. **J Toxicol Sci** 1996 Aug;21(3):167–75

c-Fos antisense blocks acquisition and extinction of conditioned taste aversion in mice. Swank MW, et al. **Neuroreport** 1996 Jul 29;7(11):1866–70

Strychnine eliminates reciprocation and augmentation of respiratory bursts of the in vitro frog brainstem. Kimura N, et al. **Neurosci Lett** 1997 Mar 28;225(1):9–12

Nicotinic receptor mediates spontaneous GABA release in the rat dorsal motor nucleus of the vagus. Bertolino M, et al. **Neuroscience** 1997 Aug;79(3):671–81

Optical studies of the biphasic modulatory effects of glycine on excitatory postsynaptic potentials in the chick brainstem and their embryogenesis. Sato K, et al. **Neuroscience** 1996 Jun;72(3):833–46

Glycine-mediated inhibitory postsynaptic potentials in the medial pontine reticular formation of the rat in vitro. Stevens DR, et al. **Neuroscience** 1996 Aug;73(3):791–6

Serotonin, norepinephrine and associated neuropeptides: effects on somatic motoneuron excitability. White SR, et al. **Prog Brain Res** 1996;107:183–99 (111 ref.)

EMBRYOLOGY

The projections to the spinal cord of the rat during development: a timetable of descent. Lakke EA. **Adv Anat Embryol Cell Biol** 1997;135:I–XIV, 1–143 (456 ref.)

Developmental expression of the CD15-epitope in the brainstem and spinal cord of the mouse. Ashwell KW, et al. **Anat Embryol (Berl)** 1997 Jul;196(1):13–25

Optical monitoring of glutaminergic excitatory postsynaptic potentials from the early developing embryonic chick brain stem. Momose-Sato Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:454–7

Morphology of human brain stem venous vessels in fetal period. Kędzia A. **Folia Histochem Cytobiol** 1996;34 Suppl 1:59–60

Embryological origin for autism: developmental anomalies of the cranial nerve motor nuclei. Rodier PM, et al. **J Comp Neurol** 1996 Jun 24;370(2):247–61

Chronic placental insufficiency in the fetal guinea pig affects neurochemical and neuroglial development but not neuronal numbers in the brainstem: a new method for combined stereology and immunohistochemistry. Tolcos M, et al. **J Comp Neurol** 1997 Mar 3;379(1):99–112

Differential expression of LIM homeobox genes among motor neuron subpopulations in the developing chick brain stem. Varela-Echavarría A, et al. **Mol Cell Neurosci** 1996; 8(4):242–57

The early neuronal organization predicts the path followed by some major axonal bundles in the embryonic brainstem. Bélanger MC, et al. **Neuroscience** 1997 May;78(1):259–70

Is there a zone of vascular vulnerability in the fetal brain stem? Leong S, et al. **Neurotoxicol Teratol** 1997 Jul–Aug; 19(4):265–75

Interactions between vasopressin and mu-opioid systems in the rat fetus. Petrov ES, et al. **Physiol Behav** 1996 Jul; 60(1):217–30

ENZYMOLOGY

Species differences in the distribution of nitric oxide synthase in brain stem regions that regulate sympathetic activity. Zanzinger J, et al. **Brain Res** 1997 Aug 1;764(1–2):265–8

Chronic effect of insulin on monoamine oxidase and antioxidant enzyme activities in the rat brainstem. Radojičić R, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):187–92

Induction of NADPH-diaphorase/nitric oxide synthase in the brainstem trigeminal system resulting from cerebellar lesions. Saxon DW, et al. **J Comp Neurol** 1996 Jul 15; 371(1):41–71

Ultrastructural study of cholinergic and noncholinergic neurons in the pars compacta of the rat pedunculopontine tegmental nucleus. Steininger TL, et al. **J Comp Neurol** 1997 Jun 9;382(3):285–301

Characterization of guanylyl cyclase in purified myelin. Grabow M, et al. **Neurochem Res** 1996 Apr;21(4):457–62

Preganglionic parasympathetic salivatory neurons in the brainstem contain markers for nitric oxide synthesis in the rabbit. Zhu BS, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):128–32

GROWTH & DEVELOPMENT

Developmental change of the nestin-immunoreactive midline raphe glial structure in human brainstem and spinal cord. Takano T, et al. **Dev Neurosci** 1997;19(2):202–9

Development of the time coding pathways in the auditory brainstem of the barn owl. Carr CE, et al. **J Comp Neurol** 1996 Sep 30;373(4):467–83

Timecourse of development of the wallaby trigeminal pathway. II. Brainstem to thalamus and the emergence of cellular aggregations. Leamey CA, et al. **J Comp Neurol** 1996 Jan 15;364(3):494–514

Anatomical distribution of somatostatin receptors in the brainstem of the human fetus. Carpentier V, et al. **Neuroscience** 1996 Aug;73(3):865–79

INJURIES

Pontine-crossed paralysis consequent to multiple trauma: case report. Keller TM, et al. **J Trauma** 1996 Nov; 41(5):923–5

[Primary traumatic midbrain syndrome--follow-up and prognosis of acute primary brain stem damage] Stein H, et al. **Zentralbl Chir** 1996;121(11):985–9 (Eng. Abstr.) **(Ger)**

[The mechanism of the formation and the morphological characteristics of intra-brain stem hemorrhages in craniocerebral trauma] Pushakov SM. **Sud Med Ekspert** 1997 Jan–Mar;40(1):9–11 (Eng. Abstr.) **(Rus)**

METABOLISM

Regional differences in metabolism and intracellular pH in response to moderate hypoxia. LaManna JC, et al. **Adv Exp Med Biol** 1997;411:23–31

Central thromboxane receptors: mRNA expression and mediation of pressor responses. Gao H, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1493–500

Developmental expression of the CD15-epitope in the brainstem and spinal cord of the mouse. Ashwell KW, et al. **Anat Embryol (Berl)** 1997 Jul;196(1):13–25

Human brainstem preganglionic parasympathetic neurons localized by markers for nitric oxide synthesis. Gai WP, et al. **Brain** 1996 Aug;119 (Pt 4):1145–52

Identification of brainstem neurons responding to hypoxia in fetal and newborn sheep. Breen S, et al. **Brain Res** 1997 Feb 14;748(1–2):107–21

Acoustically activated c-fos expression in auditory nuclei of the anaesthetised guinea pig. Cody AR, et al. **Brain Res** 1996 Jul 22;728(1):72–8

Plasma membrane calcium ATPase in synaptic terminals of chick Edinger-Westphal neurons. Fujii JT, et al. **Brain Res** 1996 Sep 23;734(1–2):193–202

Norepinephrine levels in discrete brain nuclei in borderline hypertensive rats exposed to compound stressors. Lawler JE, et al. **Brain Res Bull** 1996;41(2):87–92

Proenkephalin gene expression in the brainstem regulates post-exercise hypotension. Boone JB Jr, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):31–8

Plasticity of tyrosine hydroxylase gene expression in the rat nucleus tractus solitarius after ventilatory acclimatization to hypoxia. Dumas S, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):188–94

Detection of MAO-A and MAO-B mRNAs in monkey brainstem by cross-hybridization with human oligonucleotide probes. Luque JM, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):357–60

Peripheral chemosensitivity and central integration: neuroplasticity of catecholaminergic cells under hypoxia. Soulier V, et al. **Comp Biochem Physiol A Physiol** 1997 Sep;118(1):1–7

Developmental change of the nestin-immunoreactive midline raphe glial structure in human brainstem and spinal cord. Takano T, et al. **Dev Neurosci** 1997;19(2):202–9

Plasticity of metabolic whisker maps in somatosensory brainstem and thalamus of mice with neonatal lesions of whisker follicles. Melzer P, et al. **Eur J Neurosci** 1996 Sep; 8(9):1853–64

Interaction of thiocolchicoside with [3H]strychnine binding sites in rat spinal cord and brainstem. Cimino M, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):201–4

Depression as a spreading neuronal adjustment disorder. Harro J, et al. **Eur Neuropsychopharmacol** 1996 Aug; 6(3):207–23 (193 ref.)

Association of spinal lamina I projections with brainstem catecholamine neurons in the monkey. Westlund KN, et al. **Exp Brain Res** 1996 Jul;110(2):151–62

The 14–3–3 protein binds its target proteins with a common site located towards the C-terminus. Ichimura T, et al. **FEBS Lett** 1997 Aug 18;413(2):273–6

Further biochemical characterization of imidazoline binding sites from the human brainstem. Greney H, et al. **Fundam Clin Pharmacol** 1997;11(1):63–7

Regional distribution of a creatine transporter in rat auditory brainstem: an in-situ hybridization study. Hiel H, et al. **Hear Res** 1996 Sep 1;98(1–2):29–37

Markers of adenosine removal in normotensive and hypertensive rat nervous tissue. Castillo-Meléndez M, et al. **Hypertension** 1996 Dec;28(6):1026–33

Distribution and morphology of serotonin-immunoreactive neurons in the brainstem of the New Zealand white rabbit. Bjarkam CR, et al. **J Comp Neurol** 1997 Apr 21; 380(4):507–19

Temporary sensory deprivation changes calcium-binding proteins levels in the auditory brainstem. Caicedo A, et al. **J Comp Neurol** 1997 Feb 3;378(1):1–15

Ontogeny of somatostatin binding sites in respiratory nuclei of the human brainstem. Carpentier V, et al. **J Comp Neurol** 1997 May 19;381(4):461–72

Development of adult-type inhibitory glycine receptors in the central auditory system of rats. Friauf E, et al. **J Comp Neurol** 1997 Aug 18;385(1):117–34

Postnatal development of GAP-43 immunoreactivity in the auditory brainstem of the rat. Horváth M, et al. **J Comp Neurol** 1997 May 26;382(1):104–15

Localization of AMPA-selective glutamate receptors in the auditory brainstem of the barn owl. Levin MD, et al. **J Comp Neurol** 1997 Feb 10;378(2):239–53

Distribution of the calcium-binding proteins parvalbumin and calretinin in the auditory brainstem of adult and developing rats. Lohmann C, et al. **J Comp Neurol** 1996 Mar 25; 367(1):90–109

Development of Cat-301 immunoreactivity in auditory brainstem nuclei of the gerbil. Lurie DI, et al. **J Comp Neurol** 1997 Apr 14;380(3):319–34

Autoradiographic distribution of [3H]-(S)-zacopride-labelled 5-HT3 receptors in human brain. Parker RM, et al. **J Neurol Sci** 1996 Dec; 144(1–2):119–27

Activity-dependent [Ca2+]i changes in guinea pig vagal motoneurons: relationship to the slow afterhyperpolarization. Lasser-Ross N, et al. **J Neurophysiol** 1997 Aug;78(2):825–34

mu-Opioid and delta-opioid receptors are expressed in brainstem antinociceptive circuits: studies using immunocytochemistry and retrograde tract-tracing. Kalyuzhny AE, et al. **J Neurosci** 1996 Oct 15; 16(20):6490–503

A fluorescence technique to measure intracellular pH of single neurons in brainstem slices. Ritucci NA, et al. **J Neurosci Methods** 1996 Oct;68(2):149–63

FOS expression in the brainstem and cerebellum following phencyclidine and MK801. Näkki R, et al. **J Neurosci Res** 1996 Jan 15;43(2):203–12

Interstitial PCO2 and pH, and their role as chemostimulants in the isolated respiratory network of neonatal rats. Voipio J, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):527–42

Neuropeptide Y-like substances are released from the rostral brainstem of cats during the muscle pressor response. Williams CA. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):267–77

Effect of hemilabyrinthectomy on monoamine metabolism in the medial vestibular nucleus, locus coeruleus, and other brainstem nuclei of albino and pigmented rats. Cransac H, et al. **J Vestib Res** 1996 Jul–Aug;6(4):243–53

Streptozotocin-induced diabetes provokes changes in serotonin concentration and on 5-HT1A and 5-HT2 receptors in the rat brain. Sandrini M, et al. **Life Sci** 1997; 60(16):1393–7

Constitutive expression of calmodulin-binding phosphoprotein GAP-43 in rat serotonergic and noradrenergic cell groups which project to the spinal cord. Wotherspoon G, et al. **Neurochem Res** 1997 Aug; 22(8):985–93

Differential distribution of [3H]sumatriptan binding sites (5-HT1B, 5-HT1D and 5-HT1F receptors) in human brain: focus on brainstem and spinal cord. Castro ME, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):535–42

Chick auditory terminals contain dynorphin-like immunoreactivity. Code RA. **Neuroreport** 1996 Nov 25; 7(18):2917–20

Conditioned taste aversion and c-fos expression in the rat brainstem after administration of various USs. Sakai N, et al. **Neuroreport** 1997 Jul 7;8(9–10):2215–20

Salicylate evokes c-fos expression in the brain stem: implications for tinnitus. Wallhäusser-Franke E. **Neuroreport** 1997 Feb 10;8(3):725–8

Induction of c-Jun immunoreactivity in spinal cord and brainstem neurons in a transgenic mouse model for amyotrophic lateral sclerosis. Jaarsma D, et al. **Neurosci Lett** 1996 Nov 29;219(3):179–82

Ethanol microinjection into the area postrema selectively attenuates baroreflex sensitivity measured by vasopressin in conscious rats. Mao L, et al. **Neurosci Lett** 1996 Dec 6;220(1):13–6

Induction of Fos-like immunoreactivity in the lower brainstem and the spinal cord of the rat by intraperitoneal administration of an endogenous satiety substance, 2-buten-4-olide. Uemura N, et al. **Neurosci Lett** 1997 May 16;227(2):131–4

Distribution of glucocorticoid receptor immunoreactivity and mRNA in the rat brain: an immunohistochemical and in situ hybridization study. Morimoto M, et al. **Neurosci Res** 1996 Nov;26(3):235–69

Role of the flocculus in the development of vestibular compensation: immunohistochemical studies with retrograde tracing and flocculectomy using Fos expression as a marker in the rat brainstem. Kitahara T, et al. **Neuroscience** 1997 Jan;76(2):571–80

Fos immunohistochemical determination of brainstem neuronal activation in the muskrat after nasal stimulation. McCulloch PF, et al. **Neuroscience** 1997 Jun;78(3):913–25

Release of immunoreactive substance P in the trigeminal brain stem nuclear complex evoked by chemical stimulation of the nasal mucosa and the dura mater encephali--a study with antibody microprobes. Schaible HG, et al. **Neuroscience** 1997 Jan;76(1):273–84

Differential expression of estrogen receptor and neuropeptide Y by brainstem A1 and A2 noradrenaline neurons. Simonian SX, et al. **Neuroscience** 1997 Jan;76(2):517–29

Functional relevance of anaerobic metabolism in the isolated respiratory network of newborn rats. Ballanyi K, et al. **Pflugers Arch** 1996 Aug;432(4):741–8

Further investigation of allopurinol effects on MPTP-induced oxidative stress in the striatum and brain stem of the rat. Desole MS, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):377–83

Developmental characteristics in the daily rhythm of norepinephrine concentration within rabbit brainstem regions. Gingras JL, et al. **Reprod Fertil Dev** 1996; 8(1):189–94

Depth profiles of pH and PO2 in the in vitro brainstem preparation of the tadpole Rana catesbeiana. Torgerson CS, et al. **Respir Physiol** 1997 Jun;108(3):205–13

[The participation of the serotoninergic system in regulating the activity of the central glutamatergic/aspartatergic and GABA-ergic synapses] Grigor'ev IP, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug–Sep;82(8–9):22–7 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Magnetic resonance imaging of abscesses of the brain stem and cerebellum complicating Listeria monocytogenes rhombencephalitis. Salgado MJ, et al. **Can Assoc Radiol J** 1996 Dec;47(6):431–3

PATHOLOGY

Comparative study of chronic aluminum-induced neurofilamentous aggregates with intracytoplasmic inclusions of amyotrophic lateral sclerosis. Wakayama I, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):545–54

Anatomic relationship of the oculomotor nuclear complex and medial longitudinal fasciculus in the midbrain. Miller MJ, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):111–3

MR screening for brain stem compression in hypertension [see comments] Watters MR, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):217–21. Comment in: AJNR Am J Neuroradiol 1997 Apr;18(4):788–9; discussion 789–90.

Cerebellar and brainstem "atrophy" in a patient with Kabuki make-up syndrome [letter] Yano S, et al. **Am J Med Genet** 1997 Sep 5;71(4):486–7

A case of REM sleep behavior disorder with autopsy-confirmed Alzheimer's disease: postmortem brain stem histochemical analyses. Schenck CH, et al. **Biol Psychiatry** 1996 Sep 1;40(5):422–5

Glial reaction in periventricular areas of the brainstem in fetal and neonatal posthemorrhagic hydrocephalus and congenital hydrocephalus. Fukumizu M, et al. **Brain Dev** 1996 Jan–Feb;18(1):40–5

Velopharyngeal incompetence as the presenting symptom of malignant brainstem tumor. Lefaivre JF, et al. **Cleft Palate Craniofac J** 1997 Mar;34(2):154–8

Primary Candida albicans empyema associated with epidural hematomas in craniocervical junction. Duffner F, et al. **Clin Neuropathol** 1997 May–Jun;16(3):143–6

Progressive myoclonus epilepsy with focal brainstem degeneration and paternal inheritance. An autopsy report of 4 cases from 2 pedigrees. Moss TH, et al. **Clin Neuropathol** 1996 Mar–Apr;15(2):106–12

The auditory brain stem response in patients with brain stem or cochlear pathology. Musiek FE, et al. **Ear Hear** 1995 Dec;16(6):631–6

Degeneration of axons in the brainstem of the chinchilla after auditory overstimulation. Kim J, et al. **Hear Res** 1997 Jan; 103(1–2):169–91

Pediatric brain stem gliomas with the predominant symptom of sleep apnea. Ito K, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):53–64

Temporal bone and brain stem histopathological findings in Cornelia de Lange syndrome. Sasaki T, et al. **Int J Pediatr Otorhinolaryngol** 1996 Aug;36(3):195–204

Isolated bulb lesion following mild Plasmodium falciparum malaria diagnosed by magnetic resonance imaging [letter] Saïssy JM, et al. **Intensive Care Med** 1996 Jun;22(6):610–1

Brainstem tumor with infantile spasms. Aktan G, et al. **J Child Neurol** 1997 Feb;12(2):152–4

Brainstem thrombosis: patient's viewpoint 12 months post stroke. Young G, et al. **J Clin Exp Neuropsychol** 1996 Jun; 18(3):459–61

Meningioangiomatosis in the brain stem of a dog. Pumarola M, et al. **J Comp Pathol** 1996 Aug;115(2):197–201

Dural metastasis at medulla oblongata: a rare cause of vocal fold paralysis. Pak MW, et al. **J Laryngol Otol** 1996 Sep; 110(9):884–6

Fatal brain stem encephalitis due to herpes simplex virus type 1 in AIDS [letter] Moulignier A, et al. **J Neurol** 1996 Jun; 243(6):491–3

Neurological manifestations following treatment of Langerhans cell histiocytosis [letter] Varona L, et al. **J Neurol** 1997 Jan;244(1):58–60

Sound movement detection deficit due to a brainstem lesion. Griffiths TD, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):522–6

Pure word deafness after resection of a tectal plate glioma with preservation of wave V of brain stem auditory evoked potentials [letter] Meyer B, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):423–4

Overlap of Guillain-Barre syndrome and Bickerstaff's brainstem encephalitis. Yuki N, et al. **J Neurol Sci** 1997 Jan;145(1):119–21

Late sequelae of treated pleomorphic xanthoastrocytoma: malignant brain stem astrocytoma occurring 15 years after radiation therapy. Fuller GN, et al. **J Neurooncol** 1997 Mar; 32(1):57–61

Clinicopathologic study of paraneoplastic brainstem encephalitis and ophthalmoparesis [see comments] Crino PB, et al. **J Neuroophthalmol** 1996 Mar;16(1):44–8. Comment in: J Neuroophthalmol 1996 Dec;16(4):302–3.

Brainstem tegmental necrosis and olivary hypoplasia: a lethal entity associated with congenital apnea. Cortez SC, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):841–9

A simplified and rapid procedure for in situ hybridization on human, flash-frozen, post-mortem brain and its combination with immunohistochemistry. Kingsbury AE, et al. **J Neurosci Methods** 1996 Nov;69(2):213–27

The shrinkage of the human brain stem during formalin fixation and embedding in paraffin. Quester R, et al. **J Neurosci Methods** 1997 Jul 18;75(1):81–9

Brainstem abscess: preoperative MRI appearance and survival following stereotactic aspiration. Bavetta S, et al. **J Neurosurg Sci** 1996 Jun;40(2):139–43 (21 ref.)

Histopathology of enzootic ataxia in Sika deer (Cervus nippon Temminck). Yoshikawa H, et al. **J Vet Med Sci** 1996 Sep;58(9):849–54

Cavernous angioma of the brain stem mimicking multiple sclerosis [letter] Vrethem M, et al. **N Engl J Med** 1997 Mar 20;336(12):875–6

Brainstem schwannoma--case report. Tanabe M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):880–3

Resolution of a brainstem abscess through antituberculous therapy. García-Moncó JC, et al. **Neurology** 1997 Jul; 49(1):265–7

Brainstem CMV encephalitis in AIDS: clinical case and MRI features. Pierelli F, et al. **Neurology** 1997 Feb;48(2):529–30

An MRI analysis of brain-stem and cerebellar lesions and olivary hypertrophy. Kawata Y, et al. **Neuroradiology** 1996 Jul;38(5):441–3

MRI of adrenoleukodystrophy involving predominantly the cerebellum and brain stem. Waragai M, et al. **Neuroradiology** 1996 Nov;38(8):788–91

Brain stem involvement in children with neurofibromatosis type 1: role of magnetic resonance imaging and spectroscopy in the distinction from diffuse pontine glioma. Broniscer A, et al. **Neurosurgery** 1997 Feb;40(2):331–7; discussion 337–8 (29 ref.)

Is there a zone of vascular vulnerability in the fetal brain stem? Leong S, et al. **Neurotoxicol Teratol** 1997 Jul–Aug; 19(4):265–75

Effects of brain stem lesions on cochlear function: mechanism of hearing improvement after removal of a brain stem tumor. Qiu WW, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):560–7

Morphological study of the brainstem in Fukuyama type congenital muscular dystrophy. Itoh M, et al. **Pediatr Neurol** 1996 Nov;15(4):327–31

Diffuse brainstem tumors: when is a biopsy necessary? Albright AL. **Pediatr Neurosurg** 1996;24(5):252–5 (27 ref.)

Contemporary chemotherapy issues for children with brainstem gliomas. Allen JC, et al. **Pediatr Neurosurg** 1996; 24(2):98–102

Pathology of brain stem astrocytomas. Burger PC. **Pediatr Neurosurg** 1996;24(1):35–40 (28 ref.)

Radiologic classification of brain stem tumors: correlation of magnetic resonance imaging appearance with clinical outcome. Fischbein NJ, et al. **Pediatr Neurosurg** 1996; 24(1):9–23

Dorsally exophytic brain stem tumors and midbrain tumors. Hoffman HJ. **Pediatr Neurosurg** 1996;24(5):256–62

Brainstem gliomas in children. A Children's Cancer Group review of 119 cases. Kaplan AM, et al. **Pediatr Neurosurg** 1996;24(4):185–92

Prognostic value of contrast-enhanced magnetic resonance imaging in brainstem gliomas. Moghrabi A, et al. **Pediatr Neurosurg** 1995;23(6):293–8

Brain stem gliomas: therapeutic options at time of recurrence. Packer RJ. **Pediatr Neurosurg** 1996;24(4):211–6 (21 ref.)

Alternative therapies for children with brain stem gliomas: immunotherapy and gene therapy. Packer RJ. **Pediatr Neurosurg** 1996;24(4):217–22 (21 ref.)

Brainstem tumors in childhood: preparing patients and families for long- and short-term care. Shiminski-Maher T. **Pediatr Neurosurg** 1996;24(5):267–71 (11 ref.)

Neuroimaging of primary brainstem gliomas: diagnosis and course. Zimmerman RA. **Pediatr Neurosurg** 1996 Jul; 25(1):45–53

Neuroimaging of pediatric brain stem diseases other than brain stem glioma. Zimmerman RA. **Pediatr Neurosurg** 1996 Aug;25(2):83–92 (11 ref.)

Targeted deletion of the mouse POU domain gene Brn-3a causes selective loss of neurons in the brainstem and trigeminal ganglion, uncoordinated limb movement, and impaired suckling. Xiang M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11950–5

Pure or predominant sensory stroke due to brain stem lesion. Kim JS, et al. **Stroke** 1997 Sep;28(9):1761–4

Brain stem compression secondary to adipose graft prolapse after transpetrosal approach: case report. Spallone A, et al. **Surg Neurol** 1997 Jul;48(1):80–3; discussion 84

Idiopathic brainstem neuronal chromatolysis of cattle: a disorder with clinical similarity to BSE [letter; comment] Jeffrey M, et al. **Vet Rec** 1996 Oct 19;139(16):398. Comment on: Vet Rec 1992 Oct 17;131(16):359–62.

Idiopathic brainstem neuronal chromatolysis in cattle: two case studies. Stewart WB. **Vet Rec** 1997 Mar 8; 140(10):260–1

[Vitality and possible causes of punctate hemorrhages in the lower brain stem of a burned corpse] Schulz F, et al. **Arch Kriminol** 1996 Nov–Dec;198(5–6):160–6 (Eng. Abstr.) **(Ger)**

[The relationship between ocular abnormalities and MRI findings in patients with spinocerebellar degeneration] Ohki M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jan; 100(1):27–35 (Eng. Abstr.) **(Jpn)**

[Magnetic resonance imaging of brainstem lesions in a case of neuro-Behçet disease] Nomura E, et al. **No To Shinkei** 1997 Mar;49(3):273–6 (Eng. Abstr.) **(Jpn)**

[Steroid responsive chronic brainstem encephalitis featuring mental symptoms, abnormal eye movement and cerebellar ataxia] Watanabe R, et al. **No To Shinkei** 1997 Jul; 49(7):650–3 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Unconditional discrimination as a paradigm for investigating visual processing in the avian brainstem. Kabai P, et al. **Acta Biol Hung** 1997;48(1):9–14

Origin of auditory brainstem responses in cats: whole brainstem mapping, and a lesion and HRP study of the inferior colliculus. Kaga K, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):197–201

Morphological evidence for effects of the aging on the serotoninergic neurons in the rat brainstem nuclei. Lolova IS. **Acta Physiol Pharmacol Bulg** 1996;22(1):17–25

Location and quantification of muscarinic receptor subtypes in rat pons: implications for REM sleep generation. Baghdoyan HA. **Am J Physiol** 1997 Sep;273(3 Pt 2):R896–904

Presynaptic alpha2-adrenoceptors inhibit excitatory synaptic transmission in rat brain stem. Bertolino M, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G654–61

Area postrema-induced inhibition of the exercise pressor reflex. Bonigut S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1650–5

Neuroanatomic organization of the parasympathetic bronchomotor system in developing sheep. Pérez Fontán JJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R121–33

Central vs. peripheral metabolic control of estrous cycles in Syrian hamsters. II. Glucoprivation. Schneider JE, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R406–12

Coupled oscillators account for the slow rhythms in sympathetic nerve discharge and phrenic nerve activity. Zhong S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1314–24

Modulation of K+ and Ca2+ currents in cultured neurons by an angiotensin II type 1a receptor peptide. Zhu M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C1040–8

Adrenergic signal transduction in the brainstem of euthermic and hibernating European hamsters. Nürnberger F, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:705–11

Brainstem lesions and gustatory function: II. The role of the nucleus of the solitary tract in Na+ appetite, conditioned taste aversion, and conditioned odor aversion in rats. Grigson PS, et al. **Behav Neurosci** 1997 Feb;111(1):169–79

Brainstem lesions and gustatory function: III. The role of the nucleus of the solitary tract and the parabrachial nucleus in retention of a conditioned taste aversion in rats. Grigson PS, et al. **Behav Neurosci** 1997 Feb;111(1):180–7

Lesions of the lateral parabrachial nucleus block the aversive motivational effects of both morphine and morphine withdrawal but spare morphine's discriminative properties. Nader K, et al. **Behav Neurosci** 1996 Dec;110(6):1496–502

Brainstem lesions and gustatory function: I. The role of the nucleus of the solitary tract during a brief intake test in rats. Shimura T, et al. **Behav Neurosci** 1997 Feb; 111(1):155–68

Rats with area postrema lesions have lengthy eating and drinking bouts when fed ad libitum: implications for feedback inhibition of ingestive behavior. Stricker EM, et al. **Behav Neurosci** 1997 Jun;111(3):623–32

Calcium dynamics associated with a single action potential in a CNS presynaptic terminal. Helmchen F, et al. **Biophys J** 1997 Mar;72(3):1458–71

Dynamic internal coordination in different frequency ranges. Rittweger J, et al. **Boll Soc Ital Biol Sper** 1996 Jan–Feb; 72(1–2):45–63 (24 ref.)

Characterization of Y3 receptor-mediated synaptic inhibition by chimeric neuropeptide Y-peptide YY peptides in the rat brainstem. Glaum SR, et al. **Br J Pharmacol** 1997 Feb; 120(3):481–7

Role of brainstem adenosine A1 receptors in the cardiovascular response to hypothalamic defence area stimulation in the anaesthetized rat. St Lambert JH, et al. **Br J Pharmacol** 1996 Jan;117(2):277–82

Brainstem auditory and visual evoked potentials in infants with myelomeningocele. Taylor MJ, et al. **Brain Dev** 1996 Mar–Apr;18(2):99–104

Area postrema lesions in rats appear to disrupt rapid feedback inhibition of fluid intake. Curtis KS, et al. **Brain Res** 1996 Jul 8;726(1–2):31–8

Identification of diencephalic and brainstem cardiorespiratory areas activated during exercise. Iwamoto GA, et al. **Brain Res** 1996 Jul 8;726(1–2):109–22

Sources of subcortical projections to the superior colliculus in the ferret. Jiang ZD, et al. **Brain Res** 1997 May 2; 755(2):279–92

Brainstem-mediated locomotion and myoclonic jerks. I. Neural substrates. Lai YY, et al. **Brain Res** 1997 Jan 16; 745(1–2):257–64

BRAIN STEM

Brainstem-mediated locomotion and myoclonic jerks. II Pharmacological effects. Lai YY, et al. **Brain Res** 1997 Jan 16;745(1-2):265-70

Changes in Fos-like immunoreactivity evoked by maturation of the sneeze reflex triggered by nasal air puff stimulation in kittens. Masmoudi K, et al. **Brain Res** 1997 May 16; 757(1):102-10

Forebrain contribution to the induction of a brainstem correlate of conditioned taste aversion: I. The amygdala. Schafe GE, et al. **Brain Res** 1996 Nov 25;741(1-2):109-16

Brainstem interneurons necessary for vestibular influences on sympathetic outflow. Steinbacher BC Jr, et al. **Brain Res** 1996 May 13;720(1-2):204-10

Species differences in the distribution of nitric oxide synthase in brain stem regions that regulate sympathetic activity. Zanzinger J, et al. **Brain Res** 1997 Aug 1;764(1-2):265-8

Spectral features of central pattern generation in the in vitro brain stem spinal cord preparation of the newborn rat. Tarasiuk A, et al. **Brain Res Bull** 1997;42(2):105-10

Influence of the neuropeptide somatostatin on the development of dendritic morphology: a cysteamine-depletion study in the rat auditory brainstem. Kungel M, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1-2):107-14

Localization of GABAA alpha 1 mRNA subunit in the brainstem nuclei controlling esophageal peristalsis. Broussard DL, et al. **Brain Res Mol Brain Res** 1996 Aug; 40(1):143-7

Descending pressor pathways from the dorsomedial and ventrolateral medulla of cats. Wang SD, et al. **Chin J Physiol** 1996;39(1):31-42

Escape behavior - brainstem and spinal cord circuitry and function. Korn H, et al. **Curr Opin Neurobiol** 1996 Dec; 6(6):826-32 (50 ref.)

Infant regulation of the vagal "brake" predicts child behavior problems: a psychobiological model of social behavior. Porges SW, et al. **Dev Psychobiol** 1996 Dec;29(8):697-712

Speech-evoked brainstem frequency-following responses during verbal transformations due to word repetition. Galbraith GC, et al. **Electroencephalogr Clin Neurophysiol** 19: 7 Jan;102(1):46-53

Adrenocorticotropin response and nicotine-induced norepinephrine secretion in the rat paraventricular nucleus are mediated through brainstem receptors. Fu Y, et al. **Endocrinology** 1997 May;138(5):1935-43

NMDA receptors in the pontine brainstem are necessary for fear potentiation of the startle response. Fendt M, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):1-6

Topographical characteristics of preposito-collicular projections in the cat as revealed by Phaseolus vulgaris-leucoagglutinin technique. A possible organisation underlying temporal-to-spatial transformations. Corvisier J, et al. **Exp Brain Res** 1997 May;114(3):461-71

Interactions between medullary and spinal respiratory rhythm generators in the in vitro brainstem spinal cord preparation from newborn rats. Dubayle D, et al. **Exp Brain Res** 1996 Apr;109(1):1-8

The nucleus retroambigualis controls laryngeal muscle activity during vocalization in the cat. Shiba K, et al. **Exp Brain Res** 1997 Jul;115(3):513-9

Brain stem implantable electrodes in management of total deafness after removal of acoustic neuroma--a review of operative approaches. Skarżynska B, et al. **Folia Morphol (Warsz)** 1996;55(4):442-3

Analysis of ion channel expression by astrocytes in red nucleus brain stem slices of the rat. Akopian G, et al. **Glia** 1997 Mar;19(3):234-46

Evidence for separate processing in the human brainstem of interaural intensity and temporal disparities for sound lateralization. Pratt H, et al. **Hear Res** 1997 Jun; 108(1-2):1-8

Threshold-distance measures from electrical stimulation of human brainstem. Shannon RV, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):70-4

Adjunctive brainstem behaviors in the rat. Andy OJ, et al. **Integr Physiol Behav Sci** 1996 Oct-Dec;31(4):315-30

Focal central chemoreceptor sensitivity in the RTN studied with a CO2 diffusion pipette in vivo. Li A, et al. **J Appl Physiol** 1997 Aug;83(2):420-8

The brainstem network involved in coordination of inspiratory activity and cholinergic outflow to the airways. Haxhiu MA, et al. **J Auton Nerv Syst** 1996 Nov 6; 61(2):155-61

Convergence of visceral and somatic afferents on single neurones in the reticular formation of the lower brain stem in dogs. Langhorst P, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):149-57

Renal responses to increases in renal sympathetic nerve activity induced by brainstem stimulation in rabbits. Malpas SC, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):70-8

Electrophysiological evidence of a sound localizing binaural subsystem in the human auditory brainstem. Pratt H, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):235-44

Plasticity of the auditory brainstem: effects of cochlear ablation on GAP-43 immunoreactivity in the rat. Illing RB, et al. **J Comp Neurol** 1997 May 26;382(1):116-38

Low-frequency pathway in the barn owl's auditory brainstem. Köppl C, et al. **J Comp Neurol** 1997 Feb 10; 378(2):265-82

Efferents from the lateral frontal cortex to spinomedullary target areas, trigeminal nuclei, and spinally projecting brainstem regions in the hedgehog tenrec. Künzle H, et al. **J Comp Neurol** 1996 Aug 12;372(1):88-110

Distribution of GABAergic and glycinergic premotor neurons projecting to the facial and hypoglossal nuclei in the rat. Li YQ, et al. **J Comp Neurol** 1997 Feb 10; 378(2):283-94

Calretinin expression in the chick brainstem auditory nuclei develops and is maintained independently of cochlear nerve input. Parks TN, et al. **J Comp Neurol** 1997 Jun 23; 383(1):112-21

Evidence that perihypoglossal neurons involved in vestibular-auditory and gaze control functions respond to nerve growth factor. Sukhov RR, et al. **J Comp Neurol** 1997 Jun 30;383(2):123-34

Descending projections of the posterior nucleus of the hypothalamus: Phaseolus vulgaris leucoagglutinin analysis in the rat. Vertes RP, et al. **J Comp Neurol** 1996 Oct 28; 374(4):607-31

Characterization of respiratory-related neurons in the isolated brainstem of the frog. McLean HA, et al. **J Comp Physiol [A]** 1997 Aug;181(2):153-9

Brainstem hemisection decreases corticotropin-releasing hormone mRNA in the paraventricular nucleus but not in the central amygdaloid nucleus. Pacak K, et al. **J Neuroendocrinol** 1996 Jul;8(7):543-51

Sympathetically correlated activity of dorsal horn neurons in spinally transected rats. Chau D, et al. **J Neurophysiol** 1997 Jun;77(6):2966-74

Discharge properties of brain stem neurons projecting to the flocculus in the alert cat. I. Medical vestibular nucleus. Cheron G, et al. **J Neurophysiol** 1996 Sep;76(3):1759-74

Excitation of the brain stem pedunculopontine tegmentum cholinergic cells induces wakefulness and REM sleep. Datta S, et al. **J Neurophysiol** 1997 Jun;77(6):2975-88

Recordings from brain stem neurons responding to chemical stimulation of the subarachnoid space. Ebersberger A, et al. **J Neurophysiol** 1997 Jun;77(6):3122-33

Discharge properties of brain stem neurons projecting to the flocculus in the alert cat. II. Prepositus hypoglossal nucleus. Escudero M, et al. **J Neurophysiol** 1996 Sep;76(3):1775-85

Synaptic interactions due to convergent input from gustatory afferent fibers in the rostral nucleus of the solitary tract. Grabauskas G, et al. **J Neurophysiol** 1996 Nov; 76(5):2919-27

Membrane properties and monosynaptic retinal excitation of neurons in the turtle accessory optic system. Kogo N, et al. **J Neurophysiol** 1997 Aug;78(2):614-27

Enhanced descending modulation of nociception in rats with persistent hindpaw inflammation. Ren K, et al. **J Neurophysiol** 1996 Nov;76(5):3025-37

Uncrossed disynaptic inhibition of second-order vestibular neurons and its interaction with monosynaptic excitation from vestibular nerve afferent fibers in the frog. Straka H, et al. **J Neurophysiol** 1996 Nov;76(5):3087-101

Visual pathways for postural control and negative phototaxis in lamprey. Ullén F, et al. **J Neurophysiol** 1997 Aug; 78(2):960-76

A-type K+ current in neurons cultured from neonatal rat hypothalamus and brain stem: modulation by angiotensin II. Wang D, et al. **J Neurophysiol** 1997 Aug;78(2):1021-9

Prevention of normally occurring and deafferentation-induced neuronal death in chick brainstem auditory neurons by periodic blockade of AMPA/kainate receptors. Solum D, et al. **J Neurosci** 1997 Jun 15; 17(12):4744-51

Nitric oxide production in rat thalamus changes with behavioral state, local depolarization, and brainstem stimulation. Williams JA, et al. **J Neurosci** 1997 Jan 1; 17(1):420-7

Phasic and long-term depression in brainstem nucleus tractus solitarius neurons: differing roles of AMPA receptor desensitization. Zhou Z, et al. **J Neurosci** 1997 Jul 15; 17(14):5349-56

Role of chloride-mediated inhibition in respiratory rhythmogenesis in an in vitro brainstem of tadpole, Rana catesbeiana. Galante RJ, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):545-58

Respiratory activity in the facial nucleus in an in vitro brainstem of tadpole, Rana catesbeiana. Liao G-S, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):529-44

The ventral medullary respiratory network of the mature mouse studied in a working heart-brainstem preparation. Paton JF. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):819-31

ATP-sensitive K+ channels are functional in expiratory neurones of normoxic cats. Pierrefiche O, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):399-409

Effects of background noise on the response of rat and cat motoneurones to excitatory current transients. Poliakov AV, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):143-57

Acidosis of rat dorsal vagal neurons in situ during spontaneous and evoked activity. Trapp S, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):695-710

Descending antinociceptive mechanisms in the brainstem: their role in the animal's defensive system. Harris JA. **J Physiol Paris** 1996;90(1):15-25 (146 ref.)

Investigation of hearing impairment in Cavalier King Charles spaniels using auditory brainstem response audiometry [published erratum appears in J Small Anim Pract 1997 Feb;38(2):56] Munro KJ, et al. **J Small Anim Pract** 1997 Jan;38(1):2-5

Laryngeal evoked brainstem responses in humans: a preliminary study. Yin SS, et al. **Laryngoscope** 1997 Sep; 107(9):1261-6 (26 ref.)

Adenosine-dopamine receptor interactions in the isolated rat nodose ganglion but not in membranes of dorsal vagal complex. Lawrence AJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):303-8

C-fos expression in the brainstem after voluntary ingestion of sucrose in the rat. Streefland C, et al. **Neurobiology (Bp)** 1996;4(1-2):85-102

Trigeminal afferents and brainstem centers involved in the occurrence of cerebral vasospasm. Svendgaard NA, et al. **Neurol Res** 1996 Oct;18(5):394-400

Nitric oxide production by brain stem neurons is required for normal performance of eye movements in alert animals. Moreno-López B, et al. **Neuron** 1996 Oct;17(4):739-45

Induction of periodic alternating nystagmus in intact goldfish by sinusoidal rotation. Dow ER, et al. **Neuroreport** 1997 Aug 18;8(12):2755-9

Changes occur in the ability to promote axonal regeneration as the post-injury period increases. Houle JD, et al. **Neuroreport** 1997 Feb 10;8(3):751-5

Serotonergic inhibition of phrenic motoneuron activity: an in vitro study in neonatal rat. Di Pasquale E, et al. **Neurosci Lett** 1997 Jul 11;230(1):29-32

Innervation of rat brainstem motoneurones in organotypic culture from a co-cultured sensory explant. Guéritaud JP, et al. **Neurosci Lett** 1996 Mar 29;207(2):85-8

Trigeminal primary projection to the rat brain stem sensory trigeminal nuclear complex and surrounding structures revealed by anterograde transport of cholera toxin B subunit-conjugated and Bandeiraea simplicifolia isolectin B4-conjugated horseradish peroxidase. Sugimoto T, et al. **Neurosci Res** 1997 Aug;28(4):361-71

Interaction between the caudal brainstem and the lamprey central pattern generator for locomotion. Cohen AH, et al. **Neuroscience** 1996 Oct;74(4):1161-73

Infraorbital nerve transection and whisker follicle removal in adult rats affect microglia and astrocytes in the trigeminal brainstem. A study with lipocortin1- and S100beta-immunohistochemistry. Melzer P, et al. **Neuroscience** 1997 Sep;80(2):459-72

Optical characterization of a novel GABA response in early embryonic chick brainstem. Momose-Sato Y, et al. **Neuroscience** 1997 Sep;80(1):203-19

Electrophysiological study of nucleus gigantocellularis neurons in guinea-pig brainstem slices. Serafin M, et al. **Neuroscience** 1996 Aug;73(3):797-805

Modulation of cutaneous nociceptor activity by electrical stimulation in the brain stem does not inhibit the nociceptive excitation of dorsal horn neurons. Morton CR, et al. **Pain** 1997 May;71(1):65-70

Adenosine modulates inspiratory neurons and the respiratory pattern in the brainstem of neonatal rats. Herlenius E, et al. **Pediatr Res** 1997 Jul;42(1):46-53

Changes in multiple brain regions underlie species differences in a complex, congenital behavior. Balaban E. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2001-6

Theories of basal forebrain organization and the "emotional motor system". Alheid GF, et al. **Prog Brain Res** 1996; 107:461-84 (250 ref.)

Functional connectivity of the superior colliculus with saccade-related brain stem neurons in the cat. Chimoto S, et al. **Prog Brain Res** 1996;112:157-65

Olfaction and brainstem circuits of reproductive behavior in the rat. Shipley MT, et al. **Prog Brain Res** 1996; 107:355-77 (188 ref.)

Brainstem respiratory networks and cough. Shannon R, et al. **Pulm Pharmacol** 1996 Oct-Dec;9(5-6):343-7 (20 ref.)

Rhythmical oral-motor activity recorded in an in vitro brainstem preparation. Kogo M, et al. **Somatosens Mot Res** 1996;13(1):39-48

Central projections of identified trigeminal primary afferents after molar pulp deafferentation in adult rats. Shortland PJ, et al. **Somatosens Mot Res** 1995;12(3-4):277-97

Cutaneous representations of the hand and other body parts in the cuneate nucleus of a primate, and some relationships to previously described cortical representations. Xu J, et al. **Somatosens Mot Res** 1996;13(3-4):187-97

Endpoint accuracy in saccades interrupted by stimulation in the omnipause region in monkey. Keller EL, et al. **Vis Neurosci** 1996 Nov-Dec;13(6):1059-67

Brain-stem afferents upon retinal projecting isthmo-optic and ectopic neurons of the pigeon centrifugal visual system demonstrated by retrograde transneuronal transport of rhodamine beta-isothiocyanate. Miceli D, et al. **Vis Neurosci** 1997 Mar-Apr;14(2):213-24

[Is there a bulbar pacemaker responsible for the ultradian rhythm of paradoxical sleep?] Jouvet M, et al. **Arch Ital Biol** 1995 Dec;134(1):39-56 (Eng. Abstr.) **(Fre)**

[On the conception of the brainstem death] Kawamura H, et al. **No To Shinkei** 1997 Jul;49(7):602-10 (44 ref.) **(Jpn)**

[Role of regulatory structures of the brain stem in the functional maturation of the cerebral cortex in children aged 7-8] Lukashevich IP, et al. **Fiziol Cheloveka** 1996 Jan-Feb;22(1):63-8 **(Rus)**

[Electric stimulation of the brain stem. Treatment of deaf persons with destroyed auditory nerve] Rask-Anderson H, et al. **Lakartidningen** 1996 Oct 2;93(40):3461-4 **(Swe)**

PHYSIOPATHOLOGY

Startle syndrome: the blink reflex study suggests the private

involvement of lower brainstem in the pathophysiology [letter] Gatzonis S, et al. **Acta Neurol Scand** 1996 Apr; 93(4):303–5

Abnormal heart rate variability reflecting autonomic dysfunction in brainstem infarction. Korpelainen JT, et al. **Acta Neurol Scand** 1996 Nov;94(5):337–42

The P1 component of the middle latency auditory potential may differentiate a brainstem subgroup of Alzheimer disease. Green JB, et al. **Alzheimer Dis Assoc Disord** 1997 Sep;11(3):153–7

Effects of early deafness on development of brain stem auditory neurons. Parks TN.
Ann Otol Rhinol Laryngol Suppl 1997 May;168:37–43

Decreased gene expression of neuronal nitric oxide synthase in hypothalamus and brainstem of rats in heart failure. Patel KP, et al. **Brain Res** 1996 Sep 23;734(1–2):109–15

Brainstem stimulation during sleep evokes abnormal rhythmic activity in thalamic neurons in feline penicillin epilepsy. Szymusiak R, et al. **Brain Res** 1996 Mar 25;713(1–2):253–60

Brainstem myoclonus. Rothwell JC. **Clin Neurosci** 1995–96; 3(4):214–8 (33 ref.)

Brainstem auditory evoked potentials and visually evoked potentials in young patients with IDDM. Seidl R, et al. **Diabetes Care** 1996 Nov;19(11):1220–4

Intracranial recording from the brain-stem and the trigeminal nerve following upper lip stimulation. Soustiel JF, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jan;100(1):51–4

Electrographic study of brainstem reflex myoclonus. Oguro K, et al. **Electromyogr Clin Neurophysiol** 1997 Mar; 37(2):99–106

Involvement of proprioceptive feedback in brainstem-triggered convulsions. Maton B, et al.
Epilepsia 1997 May;38(5):509–15

Electrophysiological and MRI findings in 2 patients with Listeria rhombencephalitis. Vogt T, et al. **Eur Neurol** 1997; 38(1):71–2

Brainstem auditory evoked responses in primary hypertension. Tandon OP, et al. **Indian J Med Res** 1996 Nov;104:311–5

Response of tracheal smooth muscle tone to lower brain stem hypoxia in dogs. Suzuki I, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):136–40

Blink reflex in cerebral palsy: evaluation of late components in patients with normal auditory brainstem responses. Inagaki M, et al. **J Child Neurol** 1996 May;11(3):205–9

Recovery from brain-stem lesions involving the nociceptive pathways: comparison of clinical findings with laser-evoked potentials. Hansen HC, et al.
J Clin Neurophysiol 1996 Jul;13(4):330–8

Electrophysiological brainstem investigations in obstructive sleep apnoea syndrome. Urban PP, et al. **J Neurol** 1996 Feb;243(2):171–4

Long-term influence of neonatal hypoxia on catecholamine activity in carotid bodies and brainstem cell groups of the rat. Soulier V, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):523–30

A characteristic of aspirin-induced hearing loss in auditory brainstem response of conscious rats. Kurata K, et al.
J Vet Med Sci 1997 Jan;59(1):9–15

Brainstem myoclonus in a patient with non-dopa-responsive parkinsonism. Clouston PD, et al. **Mov Disord** 1996 Jul; 11(4):404–10

Brainstem encephalopathy with stimulus-sensitive myoclonus leading to respiratory arrest, but with recovery: a description of two cases and review of the literature. Kullmann DM, et al. **Mov Disord** 1996 Nov;11(6):715–8 (22 ref.)

Neurophysiological investigations in patients with head tremor. Valls-Solé J, et al. **Mov Disord** 1997 Jul; 12(4):576–84

Reduced brain stem excitability in mitochondrial myopathy: evidence for early detection with blink reflex habituation studies. Koutroumanidis M, et al. **Muscle Nerve** 1996 Dec; 19(12):1586–95

Brain stem reflexes in patients with Wallenberg's syndrome: correlation with clinical and magnetic resonance imaging (MRI) findings. Vallis-Solé J, et al. **Muscle Nerve** 1996 Sep;19(9):1093–9

Short-latency somatosensory evoked potentials in patients with brain stem tumor: study of N20 and N18 potentials. Fukuda M, et al. **Neurol Med Chir (Tokyo)** 1997 Jul; 37(7):525–31; discussion 531–2

Traumatic brainstem deafness with normal brainstem auditory evoked potentials. Hu CJ, et al. **Neurology** 1997 May;48(5):1448–51

Brainstem auditory evoked potentials of panic disorder patients. Levy D, et al. **Neuropsychobiology** 1996; 33(3):164–7

The amygdala is critical for seizure propagation from brainstem to forebrain. Hirsch E, et al. **Neuroscience** 1997 Apr;77(4):975–84

Functional anatomic relationship between brain-stem tumors and cranial motor nuclei. Morota N, et al.
Neurosurgery 1996 Oct;39(4):787–93; discussion 793–4

Vestibular findings and brainstem pathology in two siblings with Cockayne's syndrome. Iwasaki S, et al.
ORL J Otorhinolaryngol Relat Spec 1996 Nov–Dec; 58(6):343–6 (17 ref.)

Inhibition of trigeminal neurons by intravenous administration of the serotonin (5HT)1B/D receptor agonist zolmitriptan (311C90): are brain stem sites therapeutic target in migraine? Goadsby PJ, et al. **Pain** 1996 Oct;67(2–3):355–9

Electrophysiological brainstem dysfunction in a child with Leigh disease. Araki S, et al. **Pediatr Neurol** 1997 May; 16(4):329–33

Brainstem frequency-following responses in Rett syndrome. Galbraith GC, et al. **Pediatr Neurol** 1996 Jul;15(1):26–31

Contribution of caudal brainstem to d-fenfluramine anorexia. Grill HJ, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(4):375–81

Course of neurological recovery and cerebral prognostic signs during cardio-pulmonary resuscitation. Jørgensen EO. **Resuscitation** 1997 Aug;35(1):9–16

[Clinical aspects of spasticity in adults] De Reuck J, et al. **J Belge Med Phys Rehabil** 1980;3(2):100–4 **(Dut)**

[Hypertension and alcohol: central and peripheral mechanisms] Rupp H, et al. **Herz** 1996 Aug;21(4):258–64 (41 ref.) (Eng. Abstr.) **(Ger)**

[Exteroceptive suppression of activity of the temporal muscle. Principles and applications] Göbel H, et al.
Nervenarzt 1996 Oct;67(10):846–59 (102 ref.) (Eng. Abstr.) **(Ger)**

[Sleep and breathing disorders in patients with brain stem lesions] Schäfer D, et al. **Wien Med Wochenschr** 1996; 146(13–14):296–8 (Eng. Abstr.) **(Ger)**

[Spontaneous tegmental-mesencephalic hematoma: neurobehavioral aspects of the rostral third of the human brainstem] De Oliveira-Souza R, et al.
Arq Neuropsiquiatr 1995 Dec;53(4):807–14 (Eng. Abstr.) **(Por)**

[The formation of reactions of the cerebral cortical-brain stem structures to mild craniocerebral trauma in children] Poliakova VB.
Zh Nevropatol Psikhiatr Im S S Korsakova 1997;97(1):16–8 (Eng. Abstr.) **(Rus)**

[The perception of targeted signals in the auditory and somatosensory systems with a lesion of the brain stem] Lytaev SA. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan–Feb;47(1):38–48 (Eng. Abstr.) **(Rus)**

[Platybasia, basilar groove, odontoid process and kinking of the brainstem: a common etiology with idiopathic syringomyelia, scoliosis and Chiari malformations] Royo-Salvador MB. **Rev Neurol** 1996 Oct;24(134):1241–50 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Hyperfractionated radiotherapy for diffuse intrinsic brain stem tumors in children. Freeman CR.
Pediatr Neurosurg 1996;24(2):103–10

RADIOGRAPHY

Tuberculomas presenting as isolated intrinsic brain stem masses. Rajshekhar V, et al. **Br J Neurosurg** 1997 Apr; 11(2):127–33

RADIONUCLIDE IMAGING

Positron emission tomography in diagnosing brainstem vascular lesions that cause abnormal eye movements. Kiyosawa M, et al. **Am J Ophthalmol** 1996 Oct; 122(4):557–67

New aspects of migraine pathophysiology: lessons learned from positron emission tomography [editorial] Diener HC, et al. **Curr Opin Neurol** 1996 Jun;9(3):199–201 (12 ref.)

SURGERY

The multichannel auditory brainstem implant: 6-month coinvestigator results. Otto SR, et al.
Adv Otorhinolaryngol 1997;52:1–7

Evaluation of MRI compatibility of the modified nucleus multichannel auditory brainstem and cochlear implants. Heller JW, et al. **Am J Otol** 1996 Sep;17(5):724–9

Endoscopic treatment of an unusual multicystic lesion of the brainstem: case report [see comments] Schroeder HW, et al. **Br J Neurosurg** 1996 Apr;10(2):193–6. Comment in: Br J Neurosurg 1997 Feb;11(1):87–8.

Brain stem dermoid cyst [letter; comment] Dunn LT, et al. **Childs Nerv Syst** 1996 May;12(5):229. Comment on: Childs Nerv Syst 1995 Jul;11(7):373.

Cerebellar mutism: report of two unusual cases and review of the literature. Erşahin Y, et al.
Clin Neurol Neurosurg 1997 May;99(2):130–4 (27 ref.)

Properties of auditory brainstem responses evoked by intra-operative electrical stimulation of the cochlear nucleus in human subjects. Waring MD.
Electroencephalogr Clin Neurophysiol 1996 Nov; 100(6):538–48

Pure word deafness after resection of a tectal plate glioma with preservation of wave V of brain stem auditory evoked potentials [letter] Meyer B, et al.
J Neurol Neurosurg Psychiatry 1996 Oct;61(4):423–4

Brainstem abscess: preoperative MRI appearance and survival following stereotactic aspiration. Bavetta S, et al. **J Neurosurg Sci** 1996 Jun;40(2):139–43 (21 ref.)

Epidermoid cyst of the brain stem. Case report. Kuzeyli K, et al. **Neurosurg Rev** 1996;19(3):179–81

Surgical management of brain-stem cavernomas. Pechstein U, et al. **Neurosurg Rev** 1997;20(2):87–93

Dorsal brain stem lipomas: case report. Baeesa SS, et al.
Neurosurgery 1996 May;38(5):1031–5

Long-term access to cystic brain stem lesions using the Ommaya reservoir: technical case report. Giovanini MA, et al. **Neurosurgery** 1996 Aug;39(2):404–7; discussion 407–8

Paramedian supracerebellar approach to the upper brain stem and peduncular lesions. Ogata N, et al. **Neurosurgery** 1997 Jan;40(1):101–4; discussion 104–5

Effects of brain stem lesions on cochlear function: mechanism of hearing improvement after removal of a brain stem tumor. Qiu WW, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):560–7

Practical decisions in the treatment of pediatric brain stem tumors. Epstein F, et al. **Pediatr Neurosurg** 1996; 24(1):24–34 (77 ref.)

Prediction of results following Gamma Knife surgery for brain stem and other centrally located arteriovenous malformations: relation to natural course. Karlsson B, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:260–8

Gamma Knife radiosurgery for brain stem metastases: two autopsy cases. Tago M, et al.
Stereotact Funct Neurosurg 1996;66 Suppl 1:225–30

Surgical treatment of solid brain stem tumors in adults: a report of 22 cases. Xu QW, et al. **Surg Neurol** 1997 Jul; 48(1):30–6

Anatomical aspects for surgery within the floor of the IVth ventricle. Strauss C, et al. **Zentralbl Neurochir** 1997; 58(1):7–12 (30 ref.)

[Electrophysiological intraoperative monitoring in the surgery of brain stem lesions] Sekiya T, et al.
No Shinkei Geka 1996 Apr;24(4):311–20 (57 ref.) **(Jpn)**

[A new surgical treatment for syringomyelia, scoliosis, Arnold-Chiari malformation, kinking of the brainstem, odontoid recess, idiopathic basilar impression and platybasia] Royo-Salvador MB. **Rev Neurol** 1997 Apr; 25(140):523–30 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Collateral sprouting of central noradrenergic neurons during aging: histochemical and neurochemical studies in intraocular triple transplants. Srivastava N, et al.
Exp Neurol 1997 Jun;145(2 Pt 1):524–35

ULTRASONOGRAPHY

Möbius syndrome with brain stem calcification: prenatal and neonatal sonographic findings. Yoon K, et al.
Pediatr Radiol 1997 Feb;27(2):150–2

ULTRASTRUCTURE

Human brainstem serotonin receptors: characterization and implications for subcortical myoclonus. Pranzatelli MR, et al. **Clin Neuropharmacol** 1996 Dec;19(6):507–14

Sound localization after transection of the commissure of Probst in the albino rat. Ito M, et al. **J Neurophysiol** 1996 Nov;76(5):3493–502

Ultrastructural and quantitative study of atypical age-related bodies in the hamster brain. Navarro A, et al.
Mech Ageing Dev 1996 Sep 9;90(1):75–90

BRAIN STEM AUDITORY EVOKED POTENTIALS see **EVOKED POTENTIALS, AUDITORY, BRAIN STEM**

BRAIN TISSUE TRANSPLANTATION

The GABAergic system of the dentate gyrus after withdrawal from chronic alcohol consumption: effects of intracerebral grafting and putative neuroprotective agents. Cadete-Leite A, et al. **Alcohol Alcohol** 1997 Jul–Aug; 32(4):471–84

Gangliosides minimize motor disabilities and histopathological changes in cortical lesioned and transplanted rats. García JD, et al. **Arch Med Res** 1996 Winter;27(4):465–71

Downregulation of muscarinic- and 5-HT1B-mediated modulation of [3H]acetylcholine release in hippocampal slices of rats with fimbria-fornix lesions and intrahippocampal grafts of septal origin. Cassel JC, et al. **Brain Res** 1995 Dec 18;704(2):153–66

Dopaminergic transplants suppress L-DOPA-induced Fos expression in the dopamine-depleted striatum in a rat model of Parkinson's disease. Ishida Y, et al. **Brain Res** 1996 Jul 15;727(1–2):205–11

The effects of raphe grafts on hippocampal electrophysiology in aged rats. Levkovitz Y, et al. **Brain Res** 1996 May 6; 719(1–2):234–8

Conditionally immortalized neural progenitor cell lines integrate and differentiate after grafting to the adult rat striatum. A combined autoradiographic and electron microscopic study. Lundberg C, et al. **Brain Res** 1996 Oct 21;737(1–2):295–300

Drug-free evaluation of rat models of parkinsonism and nigral grafts using a new automated rotarod test. Rozas G, et al. **Brain Res** 1997 Feb 28;749(2):188–99

Noninvasive dopamine determination by reversed phase HPLC in the medium of free-floating roller tube cultures of rat fetal ventral mesencephalon: a tool to assess dopaminergic tissue prior to grafting. Studer L, et al.
Brain Res Bull 1996;41(3):147–50

The cerebellar model of neural grafting: structural integration and functional recovery. Triarhou LC. **Brain Res Bull** 1996; 39(3):127–38 (185 ref.)

Nitric oxide synthase in ventral forebrain grafts and in early ventral forebrain development. Shoham S, et al.
Brain Res Dev Brain Res 1997 Apr 18;99(2):155–66

Expression of c-fos, jun D and pp60c-src+ mRNAs in the

developing and grafted rat striatum. Haque NS, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):90–6

Long–term histological follow–up of genetically modified myoblasts grafted into the brain. Lisovoski F, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):125–33

Potential effect of cytokines on transgene expression in primary fibroblasts implanted into the rat brain. Schinstine M, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):195–201

GDNF triggers fiber outgrowth of fetal ventral mesencephalic grafts from nigra to striatum in 6–OHDA–lesioned rats. Wang Y, et al. **Cell Tissue Res** 1996 Nov;286(2):225–33

Preliminary report of polymer–encapsulated dopamine–secreting cell grafting into the brain. Date I, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S17–9

Addition of lateral ganglionic eminence to rat mesencephalic grafts affects fiber outgrowth but does not enhance function. Emgård–Mattson M, et al. **Cell Transplant** 1997 May–Jun;6(3):277–86

A special issue based on the third annual conference of the American Society for Neural Transplantation, 1996. Freed WJ, et al. **Cell Transplant** 1997 May–Jun;6(3):201–2

Differential dissection of the rat E16 ventral mesencephalon and survival and reinnervation of the 6–OHDA–lesioned striatum by a subset of aldehyde dehydrogenase–positive TH neurons. Haque NS, et al. **Cell Transplant** 1997 May–Jun;6(3):239–48

Intranigral grafts of fetal ventral mesencephalic tissue in adult 6–hydroxydopamine–lesioned rats can induce behavioral recovery. Johnston RE, et al. **Cell Transplant** 1997 May–Jun;6(3):267–76

Fetal grafting for Parkinson's disease: expression of immune markers in two patients with functional fetal nigral implants. Kordower JH, et al. **Cell Transplant** 1997 May–Jun;6(3):213–9

Colonization of neural allografts by host microglial cells: relationship to graft neovascularization. Pennell NA, et al. **Cell Transplant** 1997 May–Jun;6(3):221–30

Neuropsychological functioning following fetal striatal transplantation in Huntington's chorea: three case presentations. Philpott LM, et al. **Cell Transplant** 1997 May–Jun;6(3):203–12

Cerebellar grafts partially reverse amino acid receptor changes observed in the cerebellum of mice with hereditary ataxia: quantitative autoradiographic studies. Stasi K, et al. **Cell Transplant** 1997 May–Jun;6(3):347–59

The age of striatum determines the pattern and extent of dopaminergic innervation: a nigrostriatal double graft study. Strömberg I, et al. **Cell Transplant** 1997 May–Jun; 6(3):287–96

Transplantation of polymer–encapsulated fetal hippocampal cells into ischemic lesions of adult rat hippocampus. Takahata T, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S13–5

Gene transfer through implantation of embryonal carcinoma cells in the brain. Watanabe R, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S9–12

Central nervous system cell transplantation: a novel therapy for storage diseases? Snyder EY, et al. **Curr Opin Neurol** 1996 Apr;9(2):126–36 (103 ref.)

Foetal nigral cell suspension grafts influence dopamine release in the non–grafted side in the 6–hydroxydopamine rat model of Parkinson's disease: in vivo voltammetric data. Earl CD, et al. **Exp Brain Res** 1996 Apr;109(1):179–84

Glial cell line–derived neurotrophic factor improves survival of ventral mesencephalic grafts to the 6–hydroxydopamine lesioned striatum. Granholm AC, et al. **Exp Brain Res** 1997 Aug;116(1):29–38

Maturation of fetal human neural xenografts in the adult rat brain. Belkadi AM, et al. **Exp Neurol** 1997 Apr; 144(2):369–80

Long–term transgene expression in fetal rat suprachiasmatic nucleus neurografts following ex vivo adenoviral vector–mediated gene transfer. Boer GJ, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):536–45

Embryonic tissue induces growth of adult axons from myelinated fiber tracts. Davies SJ, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):471–6

Astrocytes promote or impair the survival and function of embryonic ventral mesencephalon co–grafts: effects of astrocyte age and expression of recombinant brain–derived neurotrophic factor. Krobert K, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):511–23

Survival, integration, and differentiation of neural stem cell lines after transplantation to the adult rat striatum. Lundberg C, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):342–60

Fetal hippocampal cells grafted to kainate–lesioned CA3 region of adult hippocampus suppress aberrant supragranular sprouting of host mossy fibers. Shetty AK, et al. **Exp Neurol** 1997 Feb;143(2):231–45

Microglial cell responses to fetal ventral mesencephalic tissue grafting and to active and adoptive immunizations. Shinoda M, et al. **Exp Neurol** 1996 Oct;141(2):173–80

Collateral sprouting of central noradrenergic neurons during aging: histochemical and neurochemical studies in intraocular triple transplants. Srivastava N, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):524–35

Intranigral transplants of fetal ventral mesencephalic tissue attenuate D1–agonist–induced rotational behavior. Yurek DM. **Exp Neurol** 1997 Jan;143(1):1–9

Effects of tectal grafts on sound localization deficits induced by inferior colliculus lesions in hooded rats. Zrull MC, et al. **Exp Neurol** 1997 May;145(1):16–23

Evaluation of survival and maturation of cryopreserved dopaminergic fetal cells transplanted into rat striatum and an analysis of the host brain reaction to graft. Kosno–Kruszewska E, et al. **Folia Neuropathol** 1996; 34(1):1–6

Gene transfer to the central nervous system by transplantation of cerebral endothelial cells. Quinonéro J, et al. **Gene Ther** 1997 Feb;4(2):111–9

The AMOG/beta 2 subunit of Na,K–ATPase is not necessary for long–term survival of telencephalic grafts. Isenmann S, et al. **Glia** 1995 Dec;15(4):377–88

Developmental localization of GAP–43 and olfactory marker protein in rat olfactory bulb transplants. Kott JN, et al. **Int J Dev Neurosci** 1996 Nov;14(7–8):961–70

Ontogenesis of embryonic porcine ventral mesencephalon in the perspective of its potential use as a xenograft in Parkinson's disease. Molenaar GJ, et al. **J Comp Neurol** 1997 May 26;382(1):19–28

Treatment strategies for neurodegenerative diseases based on trophic factors and cell transplantation techniques. Hoffer B, et al. **J Neural Transm Suppl** 1997;49:1–10 (31 ref.)

Intrinsic organization and monoaminergic innervation of the suprachiasmatic nucleus transplanted to adult rats. A light– and electron–microscopic study. Jacomy H, et al. **J Neurocytol** 1996 Nov;25(11):659–73

Reconstruction of the nigrostriatal pathway by simultaneous intrastriatal and intranigral dopaminergic transplants. Mendez I, et al. **J Neurosci** 1996 Nov 15;16(22):7216–27

Hippocampal tissue transplants reverse lesion–induced spatial memory deficits in zebra finches (Taeniopygia guttata). Patel SN, et al. **J Neurosci** 1997 May 15;17(10):3861–9

Adenoviral vector–mediated gene transfer and neurotransplantation: possibilities and limitations in grafting of the fetal rat suprachiasmatic nucleus. van Esseveldt KE, et al. **J Neurosci Methods** 1997 Jan;71(1):113–23

Oligodendrocyte precursors survive poorly and do not migrate following transplantation into the normal adult central nervous system. O'Leary MT, et al. **J Neurosci Res** 1997 Apr 15;48(2):159–67

Controlled release of proteins to tissue transplants for the treatment of neurodegenerative disorders. Mahoney MJ, et al. **J Pharm Sci** 1996 Dec;85(12):1276–81 (46 ref.)

Somatic gene transfer to the adult primate central nervous system: in vitro and in vivo characterization of cells genetically modified to secrete nerve growth factor. Tuszynski MH, et al. **Neurobiol Dis** 1994 Nov;1(1–2):67–78

Will fetal striatal transplants correct the akinetic end–stage of Huntington's disease? [letter] Borlongan CV, et al. **Neurodegeneration** 1996 Jun;5(2):189–92

Treatment with fetal allografts [letter; comment] Kordower JH, et al. **Neurology** 1997 Jun;48(6):1737–8. Comment on: Neurology 1996 May;46(5):1219–25.

Chromaffin cell survival from both young and old donors is enhanced by co–grafts of polymer–encapsulated human NGF–secreting cells. Date I, et al. **Neuroreport** 1996 Jul 29;7(11):1813–8

Host regulation of glial markers in intrastriatal grafts of conditionally immortalized neural stem cell lines. Lundberg C, et al. **Neuroreport** 1996 Mar 22;7(4):847–52

GDNF enhances dopaminergic cell survival and fibre outgrowth in embryonic nigral grafts. Sinclair SR, et al. **Neuroreport** 1996 Nov 4;7(15–17):2547–52

Modulation of hippocampal acetylcholine release after fimbria–fornix lesions and septal transplantation in rats. Erb C, et al. **Neurosci Lett** 1997 Aug 1;231(1):5–8

Development of projections from transplants of embryonic medial or lateral frontal cortex placed in the lateral frontal cortex of newborn hosts. Garnier C, et al. **Neurosci Lett** 1996 Jul 26;213(1):33–6

Embryonic transplantation and ischemic memory deficit. Masada T, et al. **Neurosci Res** 1997 Mar;27(3):249–55

Transplantation of human fetal striatum into a rodent model of Huntington's disease ameliorates locomotor deficits. Pundt LL, et al. **Neurosci Res** 1996 Mar;24(4):415–20

Paucity of P–zones in striatal grafts prohibit commencement of clinical trials in Huntington's disease. Brundin P, et al. **Neuroscience** 1996 Apr;71(3):895–97

The effects of donor stage on the survival and function of embryonic striatal grafts in the adult rat brain. II. Correlation between positron emission tomography and reaching behaviour. Fricker RA, et al. **Neuroscience** 1997 Aug;79(3):711–21

The effects of donor stage on the survival and function of embryonic striatal grafts in the adult rat brain. I. Morphological characteristics. Fricker RA, et al. **Neuroscience** 1997 Aug;79(3):695–710

Astrocytes and extracellular matrix following intracerebral transplantation of embryonic ventral mesencephalon or lateral ganglionic eminence. Gates MA, et al. **Neuroscience** 1996 Sep;74(2):579–97

What is needed versus what would be interesting to know before undertaking neural transplantation in patients with Huntington's disease. Peschanski M, et al. **Neuroscience** 1996 Apr;71(3):899–900

Retinoic acid treated P19 embryonal carcinoma cells differentiate into oligodendrocytes capable of myelination. Staines WA, et al. **Neuroscience** 1996 Apr;71(3):845–53

Change in the molecular phenotype of Schwann cells upon transplantation into the central nervous system: down–regulation of c–jun. Vaudano E, et al. **Neuroscience** 1996 Sep;74(2):553–65

Unilateral fetal mesencephalic grafting in two patients with Parkinson's disease: short–term result after transplantation. Chung CK, et al. **No Shinkei Geka** 1996 Nov;24(11):987–93

Cognitive deficits induced by global cerebral ischaemia: prospects for transplant therapy. Hodges H, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):763–80 (153 ref.)

Potential of immortalized neural progenitor cells to replace lost adult central nervous system neurons. Onifer SM, et al. **Transplant Proc** 1997 Jun;29(4):2221–3

[Fornix transection stimulates locus coeruleus neurons transplanted in the rat hippocampus to increase noradrenaline] Furui E. **Rinsho Shinkeigaku** 1996 Apr; 36(4):557–61 (Eng. Abstr.) **(Jpn)**

[Effect of embryonal nerve tissue transplantation on the morpho–functional characteristics of beurins in the locus coeruleus] Iarygin VN, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):106–8 **(Rus)**

[Threshold of cerebral seizure activity and indicators of higher nervous system activity in the post–resuscitation period after intracerebral allotransplantation of embryonal neocortical tissue] Semchenko VV, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):234–7 **(Rus)**

[Expression of calcium–binding proteins parvalbumin and calbindin in neurons of the neocortex grafts] Aleksandrova MA, et al. **Dokl Akad Nauk** 1997 Jul;355(1):130–3 **(Rus)**

[Vascularization of the human embryonic neocortex in the rat anterior chamber under cyclosporine A immunosuppression] Puchkov VF, et al. **Morfologiia** 1996; 110(5):15–9 (Eng. Abstr.) **(Rus)**

[Indicators of cellular immunity and the level of autoneurosensitization in patients with cerebral palsy after transplantation of the embryonal nerve tissue into the brain] Iavors'ka SO. **Klin Khir** 1997;(1):28–30 (Eng. Abstr.) **(Ukr)**

ADVERSE EFFECTS

Benefits and risks of hosting animal cells in the human brain [see comments] Isacson O, et al. **Nat Med** 1997 Sep; 3(9):964–9 (77 ref.). Comment in: Nat Med 1997 Sep;3(9):935.

CJD link prompts ban on brain tissue use [news] [see comments] Triendl R. **Nature** 1997 May 1;387(6628):5. Comment in: Nature 1997 Jul 3;388(6637):14–5.

HISTORY

The isolation and transplantation of the brain. An historical perspective emphasizing the surgical solutions to the design of these classical models. White RJ, et al. **Neurol Res** 1996 Jun;18(3):194–203 (45 ref.)

IMMUNOLOGY

Differential immune responses to fetal intracameral spinal cord and cortex cerebri grafts. Shinoda M, et al. **Exp Brain Res** 1996 Jul;110(2):223–34

Cellular immune reactions in brain transplantation: effects of graft pooling and immunosuppression in the 6–hydroxydopamine rat model of Parkinson's disease. Schwarz SC, et al. **Glia** 1996 Jun;17(2):103–20

Immune response to murine cell lines of glial origin transplanted into the central nervous system of adult mice. Terry LA, et al. **Immunology** 1997 Jul;91(3):436–43

Treatment of rat hemiparkinson model with xenogeneic neural transplantation: tolerance induction by anti–T–cell antibodies. Okura Y, et al. **J Neurosci Res** 1997 Jun 1; 48(5):385–96

CNS immunological modulation of neural graft rejection and survival. Borlongan CV, et al. **Neurol Res** 1996 Aug; 18(4):297–304 (70 ref.)

METHODS

A comparative study of preparation techniques for improving the viability of striatal grafts using vital stains, in vitro cultures, and in vivo grafts. Fricker RA, et al. **Cell Transplant** 1996 Nov–Dec;5(6):599–611

Benefits and risks of hosting animal cells in the human brain [see comments] Isacson O, et al. **Nat Med** 1997 Sep; 3(9):964–9 (77 ref.). Comment in: Nat Med 1997 Sep;3(9):935.

[The differentiation of locus coeruleus neurons after their allotransplantation into the preliminarily denervated hippocampus of white rats] Svanidze IK, et al. **Morfologiia** 1997;111(2):35–9 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Plaque formation in brain transplants exposed to human beta–amyloid precursor protein 695. Bayer TA, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):130–7

Conditionally immortalized neural progenitor cells grafted to the striatum exhibit site–specific neuronal differentiation and establish connections with the host globus pallidus. Lundberg C, et al. **Neurobiol Dis** 1996 Feb;3(1):33–50

[A comparative morphological study of homo– and heterotopic neural transplants] Otellin VA, et al. **Morfologiia** 1996;109(2):12–6 (Eng. Abstr.) **(Rus)**

[The histogenesis of embryonic neocortical allografts in rats under the action of cyclosporine A] Otellin VA, et al. **Tsitologiia** 1996;38(7):696–702 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Fetal neocortical grafts placed in brain infarcts do not improve paw-reaching deficits in adult spontaneously hypertensive rats. Grabowski M, et al. **Acta Neurochir Suppl (Wien)** 1996;66:68–72

Environmental influence on outcome after experiment brain infarction. Johansson BB. **Acta Neurochir Suppl (Wien)** 1996;66:63–7

Microimplantation of glial cells to promote regeneration of a lesioned fiber tract in the adult mammalian brain. Müller HW, et al. **Adv Neurol** 1997;73:29–36 (34 ref.)

Gene therapy and the use of stem cells for central nervous system regeneration. Whittemore SR, et al. **Adv Neurol** 1997;72:113–9 (34 ref.)

In vitro pre-degenerated nerve autografts support CNS axonal regeneration. Decherchi P, et al. **Brain Res** 1996 Jul 8;726(1–2):181–8

Transplantation of embryonic noradrenergic neurons in two models of adult rat spinal cord injury: ultrastructural immunocytochemical study. Gimenez y Ribotta MG, et al. **Brain Res** 1996 Jan 29;707(2):245–55

Effects of combined ventral forebrain grafts to neocortex and amygdala on behavior of rats with damage to the nucleus basalis magnocellularis. Shoham S, et al. **Brain Res Bull** 1997;43(4):381–92

Influence of BDNF on the expression of the dopaminergic phenotype of tissue used for brain transplants. Zhou J, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):43–51

Metabolic energy capacity of dopaminergic grafts and the implanted striatum in parkinsonian nonhuman primates as visualized with cytochrome oxidase histochemistry. Collier TJ, et al. **Cell Transplant** 1997 Mar–Apr;6(2):135–40

Transplant of Schwann cells allows normal development of the visual cortex of dark-reared rats. Fagiolini M, et al. **Eur J Neurosci** 1997 Jan;9(1):102–12

Learning impairment induced by lesion of the CA1 field of the primate hippocampus: attempts to ameliorate the impairment by transplantation of fetal CA1 tissue. Ridley RM, et al. **Exp Brain Res** 1997 Jun;115(1):83–94

Effects of graft pooling of foetal rat and mouse tissue and immunosuppression in the 6-hydroxydopamine rat model of Parkinson's disease. Schwarz SC, et al. **Exp Brain Res** 1997 Jun;115(1):71–82

Transplantation of mesencephalic cell suspension in dopamine-denervated striatum of the rat. II. Effects on corticostriatal transmission. Capozzo A, et al. **Exp Neurol** 1997 Jul;146(1):142–50

Co-transplantation of fetal lateral ganglionic eminence and ventral mesencephalon can augment function and development of intrastriatal transplants. Costantini LC, et al. **Exp Neurol** 1997 May;145(1):214–27

What nature's knockout teaches us about GnRH activity: hypogonadal mice and neuronal grafts. Gibson MJ, et al. **Horm Behav** 1997 Jun;31(3):212–20

Age-related changes in light-induced Jun-B and Jun-D expression: effects of transplantation of fetal tissue containing the suprachiasmatic nucleus. Cai A, et al. **J Biol Rhythms** 1996 Dec;11(4):284–90

The effect of transplanting one or two suprachiasmatic nuclei on the period of the restored rhythm. Davis FC, et al. **J Biol Rhythms** 1996 Dec;11(4):291–301

Restoration of circadian rhythmicity by transplants of SCN "micropunches". LeSauter J, et al. **J Biol Rhythms** 1996 Jun;11(2):163–71

Regulation of the phase and period of circadian rhythms restored by suprachiasmatic transplants. Matsumoto S, et al. **J Biol Rhythms** 1996 Jun;11(2):145–62

Development of spinal cord projections from neocortical transplants heterotopically placed in the neocortex of newborn hosts is highly dependent on the embryonic locus of origin of the graft. Ebrahimi-Gaillard A, et al. **J Comp Neurol** 1996 Jan 29;365(1):129–40

Septal fetal tissue transplants restore long-term potentiation in the dentate gyrus of fimbria-formix-lesioned rats. Bergado JA, et al. **J Neural Transplant Plast** 1997 Jan–Mar; 6(1):31–40

A rapid replacement of vimentin-containing radial glia by glial fibrillary acidic protein-containing astrocytes in transplanted telencephalon. Tuba A, et al. **J Neural Transplant Plast** 1997 Jan–Mar;6(1):21–9

Morphometric analysis of hippocampal pyramidal neurons in situ and in grafts developing in the anterior eye chambers of young and aged Wistar rats. Zhuravleva ZN, et al. **J Neural Transplant Plast** 1997 Jan–Mar;6(1):49–57

Regeneration of neurosecretory axons into various types of intrahypothalamic graft is promoted by the absence of the blood-brain barrier: a neurophysin-immunohistochemical and horseradish peroxidase-histochemical study. Ouassat M, et al. **J Neurosci Res** 1997 Jan 15;47(2):173–85

Intra-retrosplenial cortical grafts of cholinergic neurons: functional incorporation and restoration of high affinity choline uptake. Li YJ, et al. **Neurochem Res** 1997 May; 22(5):589–95

Failure to achieve remyelination of demyelinated rat axons following transplantation of glial cells obtained from the adult human brain. Targett MP, et al. **Neuropathol Appl Neurobiol** 1996 Jun;22(3):199–206

Fetal raphe transplants reduce seizure severity in serotonin-depleted GEPRs. Clough R, et al. **Neuroreport** 1996 Dec 20;8(1):341–6

Trauma-induced striatal CNTF and BDNF mRNA in hemiparkinsonian rats. Plunkett RJ, et al. **Neuroreport** 1997 Jan 20;8(2):507–11

Reduced ageing effects of striatal neuronal discharge rate by aged ventral mesencephalic grafts. Strömberg I, et al. **Neuroreport** 1996 Feb 29;7(3):693–6

Comparative morphological study of homo- and heterotopic neural transplants. Otellin VA, et al. **Neurosci Behav Physiol** 1997 Mar–Apr;27(2):178–82

Development of grafts of the neocortex of human embryos in the anterior chamber of the rat eye. Smirnov EB, et al. **Neurosci Behav Physiol** 1996 May–Jun;26(3):220–4

Neural transplantation as an experimental treatment modality for cerebral ischemia. Borlongan CV, et al. **Neurosci Biobehav Rev** 1997 Jan;21(1):79–90 (96 ref.)

Migration of small and large cells from the grafts of embryonic olfactory bulbs, transplanted into the anterior wall of the lateral ventricle. Fujii M, et al. **Neurosci Res** 1997 Jan;27(1):29–33

Localization of dopamine receptors and associated mRNA in transplants of human fetal striatal tissue in rodents with experimental Huntington's disease. Pundt LL, et al. **Neurosci Res** 1997 Apr;27(4):305–15

Changes in striatal immediate early gene expression following neonatal dopaminergic lesion and effects of intrastriatal dopaminergic transplants. Abrous DN, et al. **Neuroscience** 1996 Jul;73(1):145–59

Intrastriatal grafts of embryonic mesencephalic rat neurons genetically modified using an adenovirus encoding human Cu/Zn superoxide dismutase. Barkats M, et al. **Neuroscience** 1997 Jun;78(3):703–13

Intracerebral grafts promote recovery of the cholinergic innervation of the hippocampal formation in rats withdrawn from chronic alcohol intake. An immunocytochemical study. Cadete-Leite A, et al. **Neuroscience** 1997 Jul;79(2):383–97

Cell surface molecules (NCAM and L1) in intrastriatal transplants of embryonic mesencephalon in rats. Gopinath G, et al. **Neuroscience** 1996 Jul;73(1):161–9

Phenotypic development of the human embryonic striatal primordium: a study of cultured and grafted neurons from the lateral and medial ganglionic eminences. Grasbon-Frodl EM, et al. **Neuroscience** 1996 Jul; 73(1):171–83

Specific axon guidance factors persist in the adult brain as demonstrated by pig neuroblasts transplanted to the rat. Isacson O, et al. **Neuroscience** 1996 Dec;75(3):827–37

DARPP-32-rich zones in grafts of lateral ganglionic eminence govern the extent of functional recovery in skilled paw reaching in an animal model of Huntington's disease. Nakao N, et al. **Neuroscience** 1996 Oct;74(4):959–70

Extensive migration and target innervation by striatal precursors after grafting into the neonatal striatum. Olsson M, et al. **Neuroscience** 1997 Jul;79(1):57–78

Triple immunosuppression protects murine intracerebral, hippocampal xenografts in adult rat hosts: effects on cellular infiltration, major histocompatibility complex antigen induction and blood-brain barrier leakage. Pedersen EB, et al. **Neuroscience** 1997 Jun;78(3):685–701

Effects of graft-derived dopaminergic innervation on the target neurons of patch and matrix compartments of the striatum. Rajakumar N, et al. **Neuroscience** 1997 Feb; 76(4):1173–85

Glial cell line-derived neurotrophic factor increases survival, growth and function of intrastriatal fetal nigral dopaminergic grafts. Rosenblad C, et al. **Neuroscience** 1996 Dec;75(4):979–85

Serial changes in granuloprival cerebellar cultures after transplantation with granule cells and glia: a timed ultrastructural study. Seil FJ. **Neuroscience** 1997 Apr; 77(3):695–711

Beta-galactosidase-labelled relay neurons of homotopic olfactory bulb transplants establish proper afferent and efferent synaptic connections with host neurons. Sekerková G, et al. **Neuroscience** 1997 Oct;80(4):973–9

Development of long-distance efferent projections from fetal hippocampal grafts depends upon pathway specificity and graft location in kainate-lesioned adult hippocampus. Shetty AK, et al. **Neuroscience** 1997 Feb;76(4):1205–19

Neural grafting as a tool for the study and reversal of neurobehavioral birth defects. Yanai J, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):673–81

Normal host prion protein (PrPC) is required for scrapie spread within the central nervous system. Brandner S, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13148–51

Development of fetal hippocampal grafts in intact and lesioned hippocampus. Shetty AK, et al. **Prog Neurobiol** 1996 Dec;50(5–6):597–653 (355 ref.)

Tyrosine hydroxylase expression in rat olfactory bulb transplants: an electron microscope study. Goheen BL, et al. **Synapse** 1996 Jul;23(3):132–41

Regression of parkinsonian fetal ventral mesencephalon grafts upon withdrawal of cyclosporine A immunosuppression. The CPH Neural Transplantation Group. Lopez-Lozano JJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):977–80

[The significance of the vascularization of embryonic donor brain for the viability of intraocular transplants in the rat] Tuba A, et al. **Morfologiia** 1996;110(4):29–32 (Eng. Abstr.) **(Rus)**

[The effect of neural transplantation on audiogenic seizures in rats of different genetic strains] Ermakova IV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul–Aug; 46(4):776–86 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Brain transplantation, personal identity and medical ethics [editorial; comment] Gillon R. **J Med Ethics** 1996 Jun; 22(3):131–2. Comment on: J Med Ethics 1996 Jun;22(3):174–80.

Do brain tissue transplants alter personal identity? Inadequacies of some "standard" arguments [see comments] Northoff G. **J Med Ethics** 1996 Jun;22(3):174–80 (30 ref.) . Comment in: J Med Ethics 1996 Jun;22(3):131–2.

BRAINWASHING see **PERSUASIVE COMMUNICATION**

BRANCH RETINAL ARTERY OCCLUSION see **RETINAL ARTERY OCCLUSION**

BRANCHED-CHAIN KETOACIDURIA see **MAPLE SYRUP URINE DISEASE**

BRANCHER DEFICIENCY see **GLYCOGEN STORAGE DISEASE TYPE IV**

BRANCHIAL ARCHES see **BRANCHIAL REGION**

BRANCHIAL CLEFT CYST see **BRANCHIOMA**

BRANCHIAL CLEFTS see **BRANCHIAL REGION**

BRANCHIAL CYST see **BRANCHIOMA**

BRANCHIAL REGION

Musculoskeletal patterning in the pharyngeal segments of the zebrafish embryo. Schilling TF, et al. **Development** 1997 Aug;124(15):2945–60

[Apropos of a rare craniofacial abnormality of the 1st branchial arch] Hsissen MA, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(2):141–4 (Eng. Abstr.) **(Fre)**

ABNORMALITIES

Sphenoidal artery, ramus orbitalis persistens and pterygospinosus muscle--a unique cooccurrence of first branchial arch anomalies in man. Pretterklieber ML, et al. **Acta Anat (Basel)** 1996;155(2):136–44

Family with branchial arch anomalies, hearing loss, ear and commissural lip pits, and rib anomalies. A new autosomal recessive condition: branchio-oto-costal syndrome? Clementi M, et al. **Am J Med Genet** 1997 Jan 10;68(1):91–3

VACTERL with hydrocephalus and branchial arch defects: prenatal, clinical, and autopsy findings in two brothers. Froster UG, et al. **Am J Med Genet** 1996 Mar 15; 62(2):169–72

Third branchial anomalies. Avoiding recurrences. Edmonds JL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr; 123(4):438–41

Severe hemifacial microsomia and absent right pharyngeal arch artery derivatives in a 19-week-old fetus. Bamforth JS, et al. **Birth Defects Orig Artic Ser** 1996;30(1):227–45

Unilateral vitelline vein ligation alters intracardiac blood flow patterns and morphogenesis in the chick embryo [see comments] Hogers B, et al. **Circ Res** 1997 Apr;80(4):473–81 . Comment in: Circ Res 1997 Apr;80(4):604–6.

First branchial complex anomalies: report of 3 cases. Van der Goten A, et al. **Eur Radiol** 1997;7(1):102–5

Detection of a megabase deletion in a patient with branchio-oto-renal syndrome (BOR) and tricho-rhino-phalangeal syndrome (TRPS): implications for mapping and cloning the BOR gene. Gu JZ, et al. **Genomics** 1996 Jan 15;31(2):201–6

Diagnosis and treatment of branchial cleft cysts and fistulae. A retrospective study of 183 patients. Agaton-Bonilla FC, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):449–52

Midline cervical cleft. Ayache D, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jun 20;40(2–3):189–93

Periauricular cysts and sinuses. Nofsinger YC, et al. **Laryngoscope** 1997 Jul;107(7):883–7

Etretinate-induced malformation of the first two branchial arches: differential staining and microdissection study of embryonic cartilage. Jacobsson C, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 May–Jun; 59(3):147–54

Cervical chrondrocutaneous branchial remnants. Atlan G, et al. **Plast Reconstr Surg** 1997 Jul;100(1):32–9

Clinical appearance of spontaneous and induced first and second branchial arch syndromes. Jacobsson C, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):125–36

[Recurrent thyroid abscess in children and malformations of the pyriform sinus] Contencin P, et al. **Ann Chir** 1997; 51(1):76–81 (Eng. Abstr.) **(Fre)**

BLOOD SUPPLY

Severe hemifacial microsomia and absent right pharyngeal arch artery derivatives in a 19-week-old fetus. Bamforth JS, et al. **Birth Defects Orig Artic Ser** 1996;30(1):227–45

Vascular regression during amphibian metamorphosis--a scanning electron microscope study of vascular corrosion casts of the ventral velum in tadpoles of Xenopus laevis Daudin. Aichhorn H, et al. **Scanning** 1996 Sep;18(6):447–55

BRANCHIAL REGION

CHEMISTRY

A histochemical study of the distribution of lectin binding sites in the developing branchial area of the trout Salmo trutta. Rojo MC, et al. **J Anat** 1996 Dec;189 (Pt 3):609–21

CYTOLOGY

The EphA4 and EphB1 receptor tyrosine kinases and ephrin–B2 ligand regulate targeted migration of branchial neural crest cells. Smith A, et al. **Curr Biol** 1997 Aug 1; 7(8):561–70

EMBRYOLOGY

Expression of Fgf–3 in relation to hindbrain segmentation, otic pit position and pharyngeal arch morphology in normal and retinoic acid–exposed mouse embryos. Mahmood R, et al. **Anat Embryol (Berl)** 1996 Jul;194(1):13–22

A duplicated Meckel's cartilage in a human fetus. Rodríguez–Vázquez JF, et al. **Anat Embryol (Berl)** 1997 Jun;195(6):497–502

Role of the Dlx homeobox genes in proximodistal patterning of the branchial arches: mutations of Dlx–1, Dlx–2, and Dlx–1 and –2 alter morphogenesis of proximal skeletal and soft tissue structures derived from the first and second arches. Qiu M, et al. **Dev Biol** 1997 May 15;185(2):165–84

Branchial HOX gene expression and human craniofacial development. Vieille–Grosjean I, et al. **Dev Biol** 1997 Mar 1;183(1):49–60

Development of branchiomotor neurons in zebrafish. Chandrasekhar A, et al. **Development** 1997 Jul; 124(13):2633–44

Jaw and branchial arch mutants in zebrafish II: anterior arches and cartilage differentiation. Piotrowski T, et al. **Development** 1996 Dec;123:345–56

Jaw and branchial arch mutants in zebrafish I: branchial arches. Schilling TF, et al. **Development** 1996 Dec; 123:329–44

ENZYMOLOGY

Stage–specific expression patterns of alkaline phosphatase during development of the first arch skeleton in inbred C57BL/6 mouse embryos. Miyake T, et al. **J Anat** 1997 Feb;190 (Pt 2):239–60

INNERVATION

Vasoactive intestinal polypeptide immunoreactive nerves in the gill arch of teleost fish, Carassius auratus L. de Girolamo P, et al. **Acta Histochem** 1997 Mar;99(1):13–22

Development of branchiomotor neurons in zebrafish. Chandrasekhar A, et al. **Development** 1997 Jul; 124(13):2633–44

Differential responses of Aplysia siphon motor neurons and interneurons to tail and mantle stimuli: implications for behavioral response specificity. Fang X, et al. **J Neurophysiol** 1996 Dec;76(6):3895–909

Defects in the development of branchial nerves and ganglia induced by in vitro exposure of mouse embryos to mercuric chloride. van Maele–Fabry G, et al. **Teratology** 1996 Jan; 53(1):10–20

METABOLISM

The presence of angiotensin II receptors in elasmobranchs. Tierney M, et al. **Gen Comp Endocrinol** 1997 Jan; 105(1):9–17

PHYSIOLOGY

Branchial and systemic roles of adenosine receptors in rainbow trout: an in vivo microscopy study. Sundin L, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R661–9

SURGERY

Grafts of the third branchial arch in chick embryos. Mérida–Velasco JA, et al. **Acta Anat (Basel)** 1996; 155(2):73–80

Clinical features of first branchial cleft anomalies. Ikarashi F, et al. **Am J Otolaryngol** 1996 Jul–Aug;17(4):233–9

[Third and fourth cervical pouches remnants and branchial clefts] Moreno Hurtado C, et al. **Cir Pediatr** 1996 Oct; 9(4):154–7 (Eng. Abstr.) **(Spa)**

BRANCHING ENZYME see **1,4–ALPHA–GLUCAN BRANCHING ENZYME**

BRANCHIO–OCULO–FACIAL SYNDROME see **BRANCHIO–OTO–RENAL SYNDROME**

BRANCHIO–OTO–RENAL SYNDROME

[Case of branchio–oto–renal syndrome] Nakano T, et al. **Nippon Naika Gakkai Zasshi** 1996 Jul 10;85(7):1157–9 **(Jpn)**

DIAGNOSIS

What syndrome is this? Branchio–oto–renal syndrome. Llistosella E, et al. **Pediatr Dermatol** 1996 Nov–Dec; 13(6):507–8

GENETICS

A human homologue of the Drosophila eyes absent gene underlies branchio–oto–renal (BOR) syndrome and identifies a novel gene family. Abdelhak S, et al. **Nat Genet** 1997 Feb;15(2):157–64

Colobomatous microphthalmia with midfacial clefting: part of the spectrum of branchio–oculo–facial syndrome? Richardson E, et al. **Ophthalmic Genet** 1996 Jun;17(2):59–65

Transcribed sequences encoded in the region involved in contiguous deletion syndrome that comprises X–linked stapes fixation and deafness. Kandpal G, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):511–7

BRANCHIO–OTORENAL DYSPLASIA see **BRANCHIO–OTO–RENAL SYNDROME**

BRANCHIOMA

CHEMISTRY

Lateral neck cysts—the branchial theory revisited. A critical review and clinicopathological study of 97 cases with special emphasis on cytokeratin expression. Regauer S, et al. **APMIS** 1997 Aug;105(8):623–30

COMPLICATIONS

Fourth branchial sinus causing recurrent cervical abscess. Burstin PP, et al. **Aust N Z J Surg** 1997 Feb–Mar; 67(2–3):119–22

Sleep apnea syndrome produced by a second branchial cyst [letter] Aoki M, et al. **Eur Arch Otorhinolaryngol** 1996; 253(7):443–4

Facial paralysis caused by a lymphoepithelial cyst located in the parotid gland. Watts SJ, et al. **J Laryngol Otol** 1996 Aug;110(8):799–801

Thyroid papillary carcinoma arising in a branchial cleft cyst. Jadusingh W, et al. **West Indian Med J** 1996 Dec; 45(4):122–4

CONGENITAL

Periauricular cysts and sinuses. Nofsinger YC, et al. **Laryngoscope** 1997 Jul;107(7):883–7

DIAGNOSIS

First branchial cleft anomaly. Arndal H, et al. **Clin Otolaryngol** 1996 Jun;21(3):203–7

First branchial complex anomalies: report of 3 cases. Van der Goten A, et al. **Eur Radiol** 1997;7(1):102–5

Heterotopic salivary glands simulating bronchial cleft fistular in the lower neck. Hwang SM, et al. **J Dermatol** 1996 Apr; 23(4):287–9

[A rare case of a preauricular fistula] Semkin VA, et al. **Stomatologiia (Mosk)** 1995;74(6):72–3 (Eng. Abstr.) **(Rus)**

PATHOLOGY

A case of primary branchiogenic carcinoma [letter] Tsuchida Y, et al. **Ann Plast Surg** 1997 Apr;38(4):439–40

Diagnosis and treatment of branchial cleft cysts and fistulae. A retrospective study of 183 patients. Agaton–Bonilla FC, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):449–52

Primary branchial cleft carcinoma—a case report. Ohri AK, et al. **J Laryngol Otol** 1997 Jan;111(1):80–2

Multilocular lymphoepithelial cyst in the thyroid accompanied with a minute thyroid carcinoma. Wtanabe I, et al. **Pathol Int** 1995 Dec;45(12):965–70

[An unusual thyroid "nodule"] Sappa P, et al. **Ann Pathol** 1996 Sep;16(4):305–6 **(Fre)**

PHYSIOPATHOLOGY

[First branchial cleft cyst in the parotid gland] Drewienkiewicz E, et al. **Otolaryngol Pol** 1996;50(2):184–8 (Eng. Abstr.) **(Pol)**

RADIOGRAPHY

Branchial pouch sinus tract from the piriform fossa causing acute suppurative thyroiditis, neck abscess, or both: CT appearance and the use of air as a contrast agent. Bar–Ziv J, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1569–72

SECONDARY

Cystic nodal metastasis in occult tonsil carcinoma—a case report. Soh KB, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):752–4 (16 ref.)

SURGERY

[First branchial cleft cyst in the parotid gland] Drewienkiewicz E, et al. **Otolaryngol Pol** 1996;50(2):184–8 (Eng. Abstr.) **(Pol)**

BRANHAMELLA CATARRHALIS see **MORAXELLA (BRANHAMELLA) CATARRHALIS**

BRASSICA

Toxicologists versus toxicological disasters: toxic oil syndrome, clinical aspects. Gómez de la Cámara A, et al. **Arch Toxicol Suppl** 1997;19:31–40 (40 ref.)

Epidemiology of the toxic oil syndrome. Philen RM, et al. **Arch Toxicol Suppl** 1997;19:41–52 (25 ref.)

Analytical measurements of products of aniline and triglycerides in oil samples associated with the toxic oil syndrome. Schurz HH, et al. **Arch Toxicol Suppl** 1997; 19:53–64

Epidemiological studies on brassica vegetables and cancer risk. Verhoeven DT, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):733–48 (146 ref.)

A review of mechanisms underlying anticarcinogenicity by brassica vegetables. Verhoeven DT, et al. **Chem Biol Interact** 1997 Feb 28;103(2):79–129 (220 ref.)

Reduced radiation damage from ingestion of cabbage family plants. Kurzer MS. **J Nutr** 1997 May;127(5 Suppl):1047S–1049S

Health effects due to inhalation of oilseed rape emissions. Antó JM. **Lancet** 1997 Aug 16;350(9076):458–9

Biochemical response in rats to the addition of curry leaf (Murraya koenigii) and mustard seeds (Brassica juncea) to the diet. Khan BA, et al. **Plant Foods Hum Nutr** 1996 Jun; 49(4):295–9

CHEMISTRY

Recent results in the organosulfur and organoselenium chemistry of genus Allium and Brassica plants. Relevance for cancer prevention. Block E. **Adv Exp Med Biol** 1996; 401:155–69 (75 ref.)

1H NMR assignment and global fold of napin BnIb, a representative 2S albumin seed protein. Rico M, et al. **Biochemistry** 1996 Dec 10;35(49):15672–82

Detection, isolation and complete amino acid sequence of an aeroallergenic protein from rapeseed flour. Monsalve RI, et al. **Clin Exp Allergy** 1997 Jul;27(7):833–41

Role of Murraya koenigii (curry leaf) and Brassica juncea (Mustard) in lipid peroxidation. Khan BA, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):155–8

A chick bioassay approach for determining the bioavailable choline concentration in normal and overheated soybean meal, canola meal and peanut meal. Emmert JL, et al. **J Nutr** 1997 May;127(5):745–52

Effects of cabbage leaf protein concentrate on the serum and liver lipid concentrations in rats. Igarashi K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr;43(2):261–70

Quantitative comparison of casein and rapeseed proteolysis by pancreatin. Vorob'ev MM, et al. **Nahrung** 1996 Oct; 40(5):248–55

Assignment of the disulfide bonds in napin, a seed storage protein from Brassica napus, using matrix–assisted laser desorption ionization mass spectrometry. Gehrig PM, et al. **Pept Res** 1996 Nov–Dec;9(6):308–14

Purification, characterization, and structural analysis of a plant low–temperature–induced protein. Boothe JG, et al. **Plant Physiol** 1997 Feb;113(2):367–76

Broccoli sprouts: an exceptionally rich source of inducers of enzymes that protect against chemical carcinogens. Fahey JW, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10367–72

Glucosinolates in Brassica: occurrence and significance as cancer–modulating agents. Jongen WM. **Proc Nutr Soc** 1996 Mar;55(1B):433–46 (56 ref.)

CYTOLOGY

Isolation of viable egg cells of rape (Brassica napus L.). Katoh N, et al. **Zygote** 1997 Feb;5(1):31–3

DRUG EFFECTS

Photoinduced toxicity of PAHs to the foliar regions of Brassica napus (canola) and Cucumbis sativus (cucumber) in simulated solar radiation. Huang XD, et al. **Ecotoxicol Environ Saf** 1996 Nov;35(2):190–7

Inositol 1,4,5–trisphosphate–sensitive Ca2+ release across nonvacuolar membranes in cauliflower. Muir SR, et al. **Plant Physiol** 1997 Aug;114(4):1511–21

ENZYMOLOGY

Characterization of cysteine residues involved in the reductive activation and the structural stability of rapeseed (Brassica napus) chloroplast fructose–1,6–bisphosphatase. Rodriguez–Suarez RJ, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):388–93

Purification and properties of chitinase from cabbage stems with roots. Chang CT, et al. **Biochem Mol Biol Int** 1996 Oct;40(2):417–25

Effect of excess cadmium ion on the metal binding site of cabbage histidinol dehydrogenase studied by 113Cd–NMR spectroscopy. Kanaori K, et al. **FEBS Lett** 1997 Jul 28; 412(2):301–4

A calmodulin–stimulated Ca2+–ATPase from plant vacuolar membranes with a putative regulatory domain at its N–terminus. Malmström S, et al. **FEBS Lett** 1997 Jan 6; 400(3):324–8

The glyoxysomal 3–ketoacyl–CoA thiolase precursor from Brassica napus has enzymatic activity when synthesized in Escherichia coli. Olesen C, et al. **FEBS Lett** 1997 Jul 21;412(1):138–40

Correlation of ATP/citrate lyase activity with lipid accumulation in developing seeds of Brassica napus L. Ratledge C, et al. **Lipids** 1997 Jan;32(1):7–12

Recombinant antibody fragments that detect enoyl acyl carrier protein reductase in Brassica napus. Ziegler A, et

al. **Lipids** 1997 Aug;32(8):805–9
Natural antisense transcripts of the S locus receptor kinase gene and related sequences in Brassica oleracea. Cock JM, et al. **Mol Gen Genet** 1997 Aug;255(5):514–24
Rapid induction by wounding and bacterial infection of an S gene family receptor–like kinase gene in Brassica oleracea. Pastuglia M, et al. **Plant Cell** 1997 Jan;9(1):49–60
Modification of seed oil content and acyl composition in the brassicaceae by expression of a yeast sn–2 acyltransferase gene. Zou J, et al. **Plant Cell** 1997 Jun;9(6):909–23
Identification of a peptide methionine sulphoxide reductase gene in an oleosin promoter from Brassica napus. Sadanandom A, et al. **Plant J** 1996 Aug;10(2):235–42
Aspartic proteinase genes in the Brassicaceae Arabidopsis thaliana and Brassica napus. D'Hondt K, et al. **Plant Mol Biol** 1997 Jan;33(1):187–92
Purification and characterization of pyrophosphate–dependent phosphofructokinase from phosphate–starved Brassica nigra suspension cells. Theodorou ME, et al. **Plant Physiol** 1996 Sep;112(1):343–51
Multi–functional acetyl–CoA carboxylase from Brassica napus is encoded by a multi–gene family: indication for plastidic localization of at least one isoform. Schulte W, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3465–70

GENETICS

The rapeseed mitochondrial gene for subunit 2 of the NADH dehydrogenase complex: a trans–spliced structure is conserved in one of the smallest plant mitochondrial genomes. Handa H, et al. **Curr Genet** 1997 Apr;31(4):336–42
Brassica nap cytoplasmic male sterility is associated with expression of a mtDNA region containing a chimeric gene similar to the pol CMS–associated orf224 gene. L'Homme Y, et al. **Curr Genet** 1997 Apr;31(4):325–35
An open reading frame for a protein involved in cytochrome c biogenesis is split into two parts in Brassica mitochondria. Menassa R, et al. **Curr Genet** 1997 Jan;31(1):70–9
DNA profiling and plant variety registration: 1. The use of random amplified DNA polymorphisms to discriminate between varieties of oilseed rape. Lee D, et al. **Electrophoresis** 1996 Jan;17(1):261–5
The steady–state level of mRNA from the Ogura cytoplasmic male sterility locus in Brassica cybrids is determined post–transcriptionally by its 3' region. Bellaoui M, et al. **EMBO J** 1997 Aug 15;16(16):5057–68
Two ribosomal DNA–binding factors interact with a cluster of motifs on the 5' external transcribed spacer, upstream from the primary pre–rRNA processing site in a higher plant. Caparros–Ruiz D, et al. **Eur J Biochem** 1997 Aug 1;247(3):981–9
Regulation of the wound–induced myrosinase–associated protein transcript in Brassica napus plants. Taipalensuu J, et al. **Eur J Biochem** 1997 Aug 1;247(3):963–71
Iron triggers a rapid induction of ascorbate peroxidase gene expression in Brassica napus. Vansuyt G, et al. **FEBS Lett** 1997 Jun 30;410(2–3):195–200
Highly conserved 5'–flanking regions of two self–incompatibility genes, SLG9 and SRK9. Suzuki G, et al. **Gene** 1997 May 20;191(1):123–6
Epigenetic silencing of RNA polymerase I transcription: a role for DNA methylation and histone modification in nucleolar dominance. Chen ZJ, et al. **Genes Dev** 1997 Aug 15;11(16):2124–36
The SLGs corresponding to the same S24–haplotype are perfectly conserved in three different self–incompatible Brassica campestris L. Matsushita M, et al. **Genes Genet Syst** 1996 Aug;71(4):255–8
Comparative genome mapping in Brassica. Lagercrantz U, et al. **Genetics** 1996 Dec;144(4):1903–10
Comparison of flowering time genes in Brassica rapa, B. napus and Arabidopsis thaliana. Osborn TC, et al. **Genetics** 1997 Jul;146(3):1123–9
A novel species–specific tandem repeat DNA family from Sinapis arvensis: detection of telomere–like sequences. Kapila R, et al. **Genome** 1996 Aug;39(4):758–66
Location of the self–incompatibility locus in an RFLP and RAPD map of Brassica oleracea. Camargo LE, et al. **J Hered** 1997 Jan–Feb;88(1):57–60
Structural analysis of the rDNA intergenic spacer of Brassica nigra: evolutionary divergence of the spacers of the three diploid Brassica species. Bhatia S, et al. **J Mol Evol** 1996 Nov;43(5):460–8
Evolution of SINE S1 retroposons in Cruciferae plant species. Lenoir A, et al. **Mol Biol Evol** 1997 Sep; 14(9):934–41
Natural antisense transcripts of the S locus receptor kinase gene and related sequences in Brassica oleracea. Cock JM, et al. **Mol Gen Genet** 1997 Aug;255(5):514–24
The rapeseed mitochondrial gene encoding a homologue of the bacterial protein Ccl1 is divided into two independently transcribed reading frames. Handa H, et al. **Mol Gen Genet** 1996 Sep 13;252(3):292–302
The self–incompatibility (S) haplotypes of Brassica contain highly divergent and rearranged sequences of ancient origin. Boyes DC, et al. **Plant Cell** 1997 Feb;9(2):237–47
Rapid induction by wounding and bacterial infection of an S gene family receptor–like kinase gene in Brassica oleracea. Pastuglia M, et al. **Plant Cell** 1997 Jan;9(1):49–60
Molecular characterization of the S locus in two self–incompatible Brassica napus lines. Yu K, et al. **Plant Cell** 1996 Dec;8(12):2369–80
Identification of a peptide methionine sulphoxide reductase gene in an oleosin promoter from Brassica napus. Sadanandom A, et al. **Plant J** 1996 Aug;10(2):235–42
Expression and subcellular targeting of a soybean oleosin in transgenic rapeseed. Implications for the mechanism of oil–body formation in seeds. Sarmiento C, et al. **Plant J** 1997 Apr;11(4):783–96
Cloning of PCP1, a member of a family of pollen coat protein (PCP) genes from Brassica oleracea encoding novel cysteine–rich proteins involved in pollen–stigma interactions. Stanchev BS, et al. **Plant J** 1996 Aug; 10(2):303–13
Leaf senescence in Brassica napus: cloning of senescence related genes by subtractive hybridisation. Buchanan–Wollaston V, et al. **Plant Mol Biol** 1997 Mar; 33(5):821–34
A transcriptional analysis of the S1Bn (Brassica napus) family of SINE retroposons. Deragon JM, et al. **Plant Mol Biol** 1996 Dec;32(5):869–78
The Brassica rapa elongated internode (EIN) gene encodes phytochrome B. Devlin PF, et al. **Plant Mol Biol** 1997 Jun;34(3):537–47
Aspartic proteinase genes in the Brassicaceae Arabidopsis thaliana and Brassica napus. D'Hondt K, et al. **Plant Mol Biol** 1997 Jan;33(1):187–92
Functional dissection of a napin gene promoter: identification of promoter elements required for embryo and endosperm–specific transcription. Ellerström M, et al. **Plant Mol Biol** 1996 Dec;32(6):1019–27
Brassica napus cDNAs encoding fatty acyl–CoA synthetase. Fulda M, et al. **Plant Mol Biol** 1997 Mar;33(5):911–22
Transcripts of a gene encoding a putative cell wall–plasma membrane linker protein are specifically cold–induced in Brassica napus. Goodwin W, et al. **Plant Mol Biol** 1996 Jul;31(4):771–81
Promoter sequences from two different Brassica napus tapetal oleosin–like genes direct tapetal expression of beta–glucuronidase in transgenic Brassica plants. Hong HP, et al. **Plant Mol Biol** 1997 Jun;34(3):549–55
Characterization of three anther–specific genes isolated from Chinese cabbage. Kim HU, et al. **Plant Mol Biol** 1997 Jan; 33(1):193–8
The presence of a Sar1 gene family in Brassica campestris that suppresses a yeast vesicular transport mutation Sec12–1. Kim WY, et al. **Plant Mol Biol** 1997 Apr; 33(6):1025–35
Alloplasmic male–sterile Brassica lines containing B. tournefortii mitochondria express an ORF 3' of the atp6 gene and a 32 kDa protein. off Landgren M, et al. **Plant Mol Biol** 1996 Dec;32(5):879–90
Molecular genetic and biochemical analysis of Brassica napus proliferating cell nuclear antigen function. Markley NA, et al. **Plant Mol Biol** 1997 Jul;34(4):693–700
Expression in anthers of two genes encoding Brassica oleracea transmembrane channel proteins. Ruiter RK, et al. **Plant Mol Biol** 1997 May;34(1):163–8
Bnm1, a Brassica pollen–specific gene. Treacy BK, et al. **Plant Mol Biol** 1997 Jul;34(4):603–11
GSBF1, a seedling–specific bZIP DNA–binding protein with preference for a 'split' G–box–related element in Brassica napus RbcS promoters. Waldmüller S, et al. **Plant Mol Biol** 1996 Nov;32(4):631–9
Molecular characterization of two Brassica napus pollen–expressed genes encoding putative arabinogalactan proteins. Gerster J, et al. **Plant Physiol** 1996 Apr; 110(4):1231–7
Functional analysis of a Brassica oleracea SLR1 gene promoter. Hackett RM, et al. **Plant Physiol** 1996 Dec; 112(4):1601–7
DNA sequences that activate isocitrate lyase gene expression during late embryogenesis and during postgerminative growth. Zhang JZ, et al. **Plant Physiol** 1996 Apr; 110(4):1069–79
Transcriptional analysis of nucleolar dominance in polyploid plants: biased expression/silencing of progenitor rRNA genes is developmentally regulated in Brassica. Chen ZJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3442–7
Striking sequence similarity in inter– and intra–specific comparisons of class I SLG alleles from Brassica oleracea and Brassica campestris: implications for the evolution and recognition mechanism. Kusaba M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7673–8
Effects of seed–specific expression of a cytokinin biosynthetic gene on canola and tobacco phenotypes. Roeckel P, et al. **Transgenic Res** 1997 Mar;6(2):133–41
[Molecular mechanisms of self–incompatibility in Brassica] Takayama S, et al. **Tanpakushitsu Kakusan Koso** 1997 Jul; 42(9):1386–95 (41 ref.) **(Jpn)**

GROWTH & DEVELOPMENT

Developmental basis of homeosis in precociously germinating Brassica napus embryos: phase change at the shoot apex. Fernandez DE. **Development** 1997 Mar;124(6):1149–57
Selenium–induced growth reduction in Brassica land races considered for phytoremediation. Bañuelos GS, et al. **Ecotoxicol Environ Saf** 1997 Apr;36(3):282–7

IMMUNOLOGY

Contact urticaria from stock, a cruciferae plant. Galindo PA, et al. **Allergy** 1996 May;51(5):363–4
Oilseed rape pollen is a potentially relevant allergen. Hemmer W, et al. **Clin Exp Allergy** 1997 Feb;27(2):156–61
Oilseed rape sensitivity [editorial] McSharry C. **Clin Exp Allergy** 1997 Feb;27(2):125–7

METABOLISM

Glucosinolates as bioactive components of Brassica vegetables: induction of cytochrome P450 1A1 in Hep G2 cells as assessed using transient transfection. Williamson G, et al. **Biochem Soc Trans** 1996 Aug;24(3):383S
Agricultural worker exposure to and absorption of permethrin applied to cabbage. Asakawa F, et al. **Bull Environ Contam Toxicol** 1996 Jan;56(1):42–9
Structural comparison of the precursor and the mature form of napin, the 2S storage protein in Brassica napus. Murén E, et al. **Eur J Biochem** 1996 Dec 1;242(2):214–9
In seedlings of the heavy metal accumulator Brassica juncea Cu2+ differentially affects transcript amounts for gamma–glutamylcysteine synthetase (gamma–ECS) and metallothionein (MT2). Schäfer HJ, et al. **FEBS Lett** 1997 Mar 10;404(2–3):216–20
Fatty acid synthesis by isolated leucoplasts from developing Brassica seeds: role of glycolytic intermediates as the source of carbon and energy. Gupta R, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):478–83
How plants dispose of chlorophyll catabolites. Directly energized uptake of tetrapyrrolic breakdown products into isolated vacuoles. Hinder B, et al. **J Biol Chem** 1996 Nov 1;271(44):27233–6
Two members of the thioredoxin–h family interact with the kinase domain of a Brassica S locus receptor kinase. Bower MS, et al. **Plant Cell** 1996 Sep;8(9):1641–50
Expression and subcellular targeting of a soybean oleosin in transgenic rapeseed. Implications for the mechanism of oil–body formation in seeds. Sarmiento C, et al. **Plant J** 1997 Apr;11(4):783–96
Identification, subcellular localization, and developmental studies of oleosins in the anther of Brassica napus. Wang TW, et al. **Plant J** 1997 Mar;11(3):475–87
Targeting of the Arabidopsis homomeric acetyl–coenzyme A carboxylase to plastids of rapeseeds. Roesler K, et al. **Plant Physiol** 1997 Jan;113(1):75–81

MICROBIOLOGY

Strains of the genus Serratia as beneficial rhizobacteria of oilseed rape with antifungal properties. Kalbe C, et al. **Microbiol Res** 1996 Dec;151(4):433–9

PHYSIOLOGY

Intra– and extracellular lipid composition and associated gene expression patterns during pollen development in Brassica napus. Piffanelli P, et al. **Plant J** 1997 Mar;11(3):549–62
Burial and seed survival in Brassica napus subsp. oleifera and Sinapis arvensis including a comparison of transgenic and non–transgenic lines of the crop. Hails RS, et al. **Proc R Soc Lond B Biol Sci** 1997 Jan 22;264(1378):1–7
An aquaporin–like gene required for the Brassica self–incompatibility response. Ikeda S, et al. **Science** 1997 Jun 6;276(5318):1564–6

POISONING

Disease signs reported in south–eastern Australian dairy cattle while grazing Brassica species. Morton JM, et al. **Aust Vet J** 1997 Feb;75(2):109–13

TOXICITY

Genotoxic effects of crude juices from Brassica vegetables and juices and extracts from phytopharmaceutical preparations and spices of cruciferous plants origin in bacterial and mammalian cells. Kassie F, et al. **Chem Biol Interact** 1996 Sep 27;102(1):1–16

VIROLOGY

The complete nucleotide sequence of turnip mosaic virus RNA Japanese strain. Ohshima K, et al. **Arch Virol** 1996; 141(10):1991–7

BRCA1 GENE PRODUCT see **BRCA1 PROTEIN**

BRCA1 GENES see **GENES, BRCA1**

BRCA1 PROTEIN

p53 mutations in BRCA1–associated familial breast cancer [letter] Crook T, et al. **Lancet** 1997 Aug 30;350(9078):638–9

ANALYSIS

Characterization of functional messenger RNA splice variants of BRCA1 expressed in nonmalignant and tumor–derived breast cells. Lu M, et al. **Cancer Res** 1996 Oct 15;56(20):4578–81
Subcellular localization and analysis of apparent 180–kDa and 220–kDa proteins of the breast cancer susceptibility gene, BRCA1. Thomas JE, et al. **J Biol Chem** 1996 Nov 8;271(45):28630–5
Localization of BRCA1 and a splice variant identifies the nuclear localization signal. Thakur S, et al. **Mol Cell Biol** 1997 Jan;17(1):444–52
Genetic tests further complicate ovarian cancer controversies [news] **Oncology (Huntingt)** 1996 Oct;10(10):1580, 1585
Human BRCA1 inhibits growth in yeast: potential use in

diagnostic testing. Humphrey JS, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5820–5
[Germ–line mutation of BRCA1 in patients with breast and/or ovarian cancer in high risk families in Northern France] Peyrat JP, et al. **Bull Cancer** 1997 Jan;84(1):41–6 (34 ref.) (Eng. Abstr.) **(Fre)**

BIOSYNTHESIS

Brca1 is expressed independently of hormonal stimulation in the mouse ovary. Phillips KW, et al. **Lab Invest** 1997 Mar;76(3):419–25
Brca2 is coordinately regulated with Brca1 during proliferation and differentiation in mammary epithelial cells. Rajan JV, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13078–83

CHEMISTRY

A superfamily of conserved domains in DNA damage–responsive cell cycle checkpoint proteins. Bork P, et al. **FASEB J** 1997 Jan;11(1):68–76
From BRCA1 to RAP1: a widespread BRCT module closely associated with DNA repair. Callebaut I, et al.
FEBS Lett 1997 Jan 2;400(1):25–30
The nuclear localization sequences of the BRCA1 protein interact with the importin–alpha subunit of the nuclear transport signal receptor. Chen CF, et al. **J Biol Chem** 1996 Dec 20;271(51):32863–8
BRCA1 is a component of the RNA polymerase II holoenzyme. Scully R, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5605–10

GENETICS

The founder mutations 185delAG and 5382insC in BRCA1 and 6174delT in BRCA2 appear in 60% of ovarian cancer and 30% of early–onset breast cancer patients among Ashkenazi women. Abeliovich D, et al.
Am J Hum Genet 1997 Mar;60(3):505–14
Common BRCA1 variants and transcriptional activation [letter] Monteiro AN, et al. **Am J Hum Genet** 1997 Sep; 61(3):761–2
Mutations in BRCA1 and BRCA2 in breast cancer families: are there more breast cancer–susceptibility genes? Serova OM, et al. **Am J Hum Genet** 1997 Mar;60(3):486–95
Prevalence and contribution of BRCA1 mutations in breast cancer and ovarian cancer: results from three U.S. population–based case–control studies of ovarian cancer. Whittemore AS, et al. **Am J Hum Genet** 1997 Mar; 60(3):496–504
BRCA1 in the family: a case description of the psychological implications. DudokdeWit AC, et al. **Am J Med Genet** 1997 Jul 11;71(1):63–71
A 1–kb Alu–mediated germ–line deletion removing BRCA1 exon 17. Puget N, et al. **Cancer Res** 1997 Mar 1;57(5):828–31
Hereditary predisposition to breast cancer. Stratton MR, et al. **Curr Opin Genet Dev** 1996 Feb;6(1):93–7 (29 ref.)
Recent advances in breast cancer biology. Blackwood MA, et al. **Curr Opin Oncol** 1996 Nov;8(6):449–54 (49 ref.)
BRCA1 mutations found in archived early onset breast tumours. Garvin AM, et al. **Eur J Cancer** 1997 Apr; 33(4):683–6
German family study on hereditary breast and/or ovarian cancer: germline mutation analysis of the BRCA1 gene. Hamann U, et al. **Genes Chromosomes Cancer** 1997 Feb; 18(2):126–32
Mutations and alternative splicing of the BRCA1 gene in UK breast/ovarian cancer families. Xu CF, et al.
Genes Chromosomes Cancer 1997 Feb;18(2):102–10
BRCA1 R841W: a strong candidate for a common mutation with moderate phenotype. Barker DF, et al.
Genet Epidemiol 1996;13(6):595–604
Statistical methods for gene map construction by fluorescence in situ hybridization. Guo SW, et al.
Genome Res 1996 Dec;6(12):1133–50
Characterization of EZH1, a human homolog of Drosophila Enhancer of zeste near BRCA1. Abel KJ, et al.
Genomics 1996 Oct 15;37(2):161–71
The BRCA1 and 1A1.3B promoters are parallel elements of a genomic duplication at 17q21. Barker DF, et al.
Genomics 1996 Dec 1;38(2):215–22
Common BRCA1 variants and susceptibility to breast and ovarian cancer in the general population. Dunning AM, et al. **Hum Mol Genet** 1997 Feb;6(2):285–9
Comparison of BRCA1 polymorphisms, rare sequence variants and/or missense mutations in unaffected and breast/ovarian cancer populations. Durocher F, et al.
Hum Mol Genet 1996 Jun;5(6):835–42
Recent advances in understanding of genetic susceptibility to breast cancer. Stratton MR. **Hum Mol Genet** 1996;5 Spec No:1515–9 (50 ref.)
Isolation and characterisation of the NBR2 gene which lies head to head with the human BRCA1 gene. Xu CF, et al. **Hum Mol Genet** 1997 Jul;6(7):1057–62
Mutations and polymorphisms in the familial early–onset breast cancer (BRCA1) gene. Breast Cancer Information Core. Couch FJ, et al. **Hum Mutat** 1996;8(1):8–18
A novel mutation in the BRCA1 gene in a German early–onset breast cancer family. Waindzoch B, et al.
Hum Mutat 1996;8(4):393
Identification of the BRCA1 breast cancer gene and its clinical implications. Kamb A, et al.
Important Adv Oncol 1996;:23–35 (94 ref.)
Complex regulation of the BRCA1 gene. Xu CF, et al.
J Biol Chem 1997 Aug 22;272(34):20994–7
Mutation analysis of the BRCA1 gene in 23 families with cases of cancer of the breast, ovary, and multiple other sites. Durocher F, et al. **J Med Genet** 1996 Oct;33(10):814–9
The 12 base pair duplication/insertion alteration could be a regulatory mutation. Robledo M, et al. **J Med Genet** 1997 Jul;34(7):592–3
Cancer risk high, but lower than expected with breast cancer genes [news] Nelson NJ. **J Natl Cancer Inst** 1997 May 21; 89(10):680–1
High frequency of BRCA1 185delAG mutation in ovarian cancer in Israel. National Israel Study of Ovarian Cancer [see comments] Modan B, et al. **JAMA** 1996 Dec 11; 276(22):1823–5. Comment in: JAMA 1997 Mar 26;277(12):963.
Mutational analysis of BRCA1 gene in ovarian and breast–ovarian cancer families in Japan. Takano M, et al.
Jpn J Cancer Res 1997 Apr;88(4):407–13
Carrying a genetic passport for ovarian cancer. Modan B.
Lancet 1996 Nov 16;348(9038):1328
Monitoring the efficacy of hybrid selection during positional cloning: the search for BRCA1. Hattier T, et al.
Mamm Genome 1995 Dec;6(12):873–9
AT–tributable risks? [news; comment] Bishop DT, et al.
Nat Genet 1997 Mar;15(3):226. Comment on: Nat Genet 1997 Mar;15(3):307–10.
Detection of heterozygous mutations in BRCA1 using high density oligonucleotide arrays and two–colour fluorescence analysis [see comments] Hacia JG, et al. **Nat Genet** 1996 Dec;14(4):441–7. Comment in: Nat Genet 1996 Dec;14(4):367–70.
A breast/ovarian cancer patient with germline mutations in both BRCA1 and BRCA2 [letter] Ramus SJ, et al.
Nat Genet 1997 Jan;15(1):14–5
Double indemnity: p53, BRCA and cancer. p53 mutation partially rescues developmental arrest in Brca1 and Brca2 null mice, suggesting a role for familial breast cancer genes in DNA damage repair [news] Brugarolas J, et al.
Nat Med 1997 Jul;3(7):721–2 (24 ref.)
Frequency of recurrent BRCA1 and BRCA2 mutations in Ashkenazi Jewish breast cancer families [see comments] Tonin P, et al. **Nat Med** 1996 Nov;2(11):1179–83 (25 ref.) . Comment in: Nat Med 1996 Nov;2(11):1162.
Cancer–susceptibility genes. Gatekeepers and caretakers [news; comment] Kinzler KW, et al. **Nature** 1997 Apr 24; 386(6627):761, 763. Comment on: Nature 1997 Apr 24;386(6627):772–3. Comment on: Nature 1997 Apr 24;386(6627):804–10.
Screening for mutations in exon 11 of the BRCA1 gene in 70 Italian breast and ovarian cancer patients by protein truncation test. De Benedetti VM, et al. **Oncogene** 1996 Sep 19;13(6):1353–7
BRCA1 and BRCA2 mRNA levels are coordinately elevated in human breast cancer cells in response to estrogen. Spillman MA, et al. **Oncogene** 1996 Oct 17;13(8):1639–45
[Candidate genes for the familial forms of breast and ovarian carcinomas (BRCA)] Markov A. **Mol Med (Sofia)** 1996; 1(1):17–20 (19 ref.) **(Bul)**
[Genetic testing of BRCA1 for familial ovarian cancers] Takano M, et al. **Gan To Kagaku Ryoho** 1997 Feb; 24(4):439–42 (19 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

BRCA1 tumor suppressor gene product shares immunoreactive epitopes with a protein present in seminal plasma. Lianidou ES, et al. **Clin Biochem** 1997 Jul; 30(5):425–32
Cross–reaction between antibodies raised against the last 20 C–terminal amino acids of BRCA 1 (C–20) and human EGF and EGF–R in MCF 10a human mammary epithelial cell line [letter] Bernard–Gallon DJ, et al. **Int J Cancer** 1997 Mar 28;71(1):123–6

METABOLISM

Sequential metal binding by the RING finger domain of BRCA1. Roehm PC, et al. **Biochemistry** 1997 Aug 19; 36(33):10240–5
A BRCA1 mutant alters G2–M cell cycle control in human mammary epithelial cells. Larson JS, et al. **Cancer Res** 1997 Aug 15;57(16):3351–5
Dynamic changes of BRCA1 subnuclear location and phosphorylation state are initiated by DNA damage. Scully R, et al. **Cell** 1997 Aug 8;90(3):425–35
Association of BRCA1 with Rad51 in mitotic and meiotic cells. Scully R, et al. **Cell** 1997 Jan 24;88(2):265–75
Induction of phosphorylation on BRCA1 during the cell cycle and after DNA damage. Thomas JE, et al.
Cell Growth Differ 1997 Jul;8(7):801–9
BRCA1 is localized in cytoplasmic tube–like invaginations in the nucleus [letter] Coene E, et al. **Nat Genet** 1997 Jun; 16(2):122–4
Identification of a RING protein that can interact in vivo with the BRCA1 gene product. Wu LC, et al.
Nat Genet 1996 Dec;14(4):430–40
BRCA1 protein level is not affected by peptide growth factors in MCF10A cell line. Aprelikova O, et al.
Oncogene 1996 Dec 5;13(11):2487–91
BRCA1 expression is not directly responsive to estrogen. Marks JR, et al. **Oncogene** 1997 Jan 9;14(1):115–21
BRCA1 proteins are transported to the nucleus in the absence of serum and splice variants BRCA1a, BRCA1b are tyrosine phosphoproteins that associate with E2F, cyclins and cyclin dependent kinases. Wang H, et al. **Oncogene** 1997 Jul 10;15(2):143–57
Differential subcellular localization, expression and biological toxicity of BRCA1 and the splice variant BRCA1–delta11b. Wilson CA, et al. **Oncogene** 1997 Jan 9;14(1):1–16
Evidence for a transcriptional activation function of BRCA1 C–terminal region. Monteiro AN, et al.
Proc Natl Acad Sci U S A 1996 Nov 26;93(24):13595–9
Possible function found for breast cancer genes [news] Marx G. **Science** 1997 Apr 25;276(5312):531–2

PHARMACOLOGY

Human BRCA1 inhibits growth in yeast: potential use in diagnostic testing. Humphrey JS, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5820–5

PHYSIOLOGY

The BRCA1 and BRCA2 breast cancer genes. Casey G.
Curr Opin Oncol 1997 Jan;9(1):88–93 (84 ref.)
Arrest of the cell cycle by the tumour–suppressor BRCA1 requires the CDK–inhibitor p21WAF1/CiP1.
Somasundaram K, et al. **Nature** 1997 Sep 11; 389(6647):187–90
Relationship of p215BRCA1 to tyrosine kinase signaling pathways and the cell cycle in normal and transformed cells. Zhang HT, et al. **Oncogene** 1997 Jun 19;14(24):2863–9
BRCA1 is a cell cycle–regulated nuclear phosphoprotein. Ruffner H, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8; 94(14):7138–43

BRDU see **BROMODEOXYURIDINE**

BREAD

Delayed gastric emptying rate as a potential mechanism for lowered glycemia after eating sourdough bread: studies in humans and rats using test products with added organic acids or an organic salt. Liljeberg HG, et al.
Am J Clin Nutr 1996 Dec;64(6):886–93
Maldigestion and colonic fermentation of wheat bread in humans and the influence of dietary fat. Olesen M, et al.
Am J Clin Nutr 1997 Jul;66(1):62–6
Possible factors which may affect phase durations in the natural chewing rhythm. Yamada Y, et al. **Brain Res** 1996 Jan 15;706(2):237–42
Glycemic responses to exercise in IDDM after simple and complex carbohydrate supplementation. Soo K, et al.
Diabetes Care 1996 Jun;19(6):575–9
Different effect of acute and chronic oral metformin administration on glucose and insulin response to bread and to pasta in non–insulin dependent diabetic patients. Lunetta M, et al. **Diabetes Res Clin Pract** 1996 Jun; 33(1):53–8
Natural occurrence of deoxynivalenol in wheat, wheat flour and bakery products in Argentina. Pacin AM, et al.
Food Addit Contam 1997 May–Jun;14(4):327–31
Vitamin D: it's not found in white bread or all dairy products [letter] Rogers IT. **Geriatrics** 1996 Dec;51(12):14
Oat bran concentrate bread products improve long–term control of diabetes: a pilot study. Pick ME, et al.
J Am Diet Assoc 1996 Dec;96(12):1254–61
Effect of vitamin–enriched bread on the vitamin status of an isolated rural community—a controlled clinical trial. Bishop WB, et al. **S Afr Med J** 1996 Apr;86(4 Suppl):458–62
[Today's bread market] Galina GV. **Vopr Pitan** 1997;(2):44–6 **(Rus)**

ANALYSIS

Wheat bread supplemented with depolymerized guar gum reduces the plasma cholesterol concentration in hypercholesterolemic human subjects. Blake DE, et al.
Am J Clin Nutr 1997 Jan;65(1):107–13
Enzymatic method to determine dehydroascorbic acid in biological samples and in bread dough at various stages of mixing. Every D. **Anal Biochem** 1996 Nov 15; 242(2):234–9
Ethyl carbamate levels resulting from azodicarbonamide use in bread. Cañas BJ, et al. **Food Addit Contam** 1997 Jan; 14(1):89–94
The effect of azodicarbonamide concentrations on ethyl carbamate concentrations in bread and toast. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):95–100
The contribution of azodicarbonamide to ethyl carbamate formation in bread and beer. Dennis MJ, et al.
Food Addit Contam 1997 Jan;14(1):101–8
Survey of baked goods for propionic acid and propionates. Scotter MJ, et al. **Food Addit Contam** 1996 Feb–Mar; 13(2):133–9
Fate of ochratoxin A during breadmaking. Subirade I.
Food Addit Contam 1996;13 Suppl:25–6 (3 ref.)
Effect of gamma–irradiation on the natural occurrence of Fusarium mycotoxins in wheat, flour and bread. Aziz NH, et al. **Nahrung** 1997 Feb;41(1):34–7
Technological and chemical characters of bread prepared from irradiated wheat flour. Zaied SE, et al. **Nahrung** 1996 Feb;40(1):28–31
Protein profiles and organoleptic properties of bread from wheat flour and full–fat or defatted fermented cocoa bean powder. Aremu CY, et al. **Plant Foods Hum Nutr** 1995

Dec;48(4):287–95
[The use of deffated corn germ in flour manufactured to bakery products] Granito M, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):322–8 (Eng. Abstr.) **(Spa)**

HISTORY

Bread and newspapers: the making of 'a revolution in the science of food'. Weatherall M. **Clio Med** 1995;32:179–212

MICROBIOLOGY

Disruption of phospholipase B gene, PLB1, increases the survival of baker's yeast Torulaspora delbrueckii. Watanabe Y, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):415–20
The effects of bakery processing on natural deoxynivalenol contamination. Neira MS, et al. **Int J Food Microbiol** 1997 Jun 17;37(1):21–5
Lactobacillus panis sp. nov., from sourdough with a long fermentation period. Wiese BG, et al.
Int J Syst Bacteriol 1996 Apr;46(2):449–53

STANDARDS

Effect of sesame seed proteins supplementation on the nutritional, physical, chemical and sensory properties of wheat flour bread. El-Adawy TA.
Plant Foods Hum Nutr 1995 Dec;48(4):311–26
Studies on samh seeds (Mesembryanthemum forsskalei Hochst) growing in Saudi Arabia: 3. Utilization of samh seeds in bakery products. Mustafa AI, et al.
Plant Foods Hum Nutr 1995 Dec;48(4):279–86
[The quality of grain is the quality of its products] Mal'tsev V. **Vopr Pitan** 1996;(2):39–41 **(Rus)**

VIROLOGY

An outbreak of hepatitis A associated with a bakery, New York, 1994: the 1968 "West Branch, Michigan' outbreak repeated. Weltman AC, et al. **Epidemiol Infect** 1996 Oct; 117(2):333–41

BREAKBONE FEVER VIRUS see **DENGUE VIRUS**

BREAST

consider also terms at MAMMA- and MAST-

see related
LACTATION
MAMMAE
MAMMAPLASTY
MAMMOGRAPHY
MASTECTOMY

Mammography of breasts in which catheter cuffs have been retained: normal, infected, and postoperative appearances. Ellis RL, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):713–5
Wire fragments after needle localization. Montrey JS, et al.
AJR Am J Roentgenol 1996 Nov;167(5):1267–9
Re: Axillary breast tissue: clinical presentation and surgical treatment [letter; comment] Baruchin AM, et al.
Ann Plast Surg 1996 Jun;36(6):661–2. Comment on: Ann Plast Surg 1995 Oct;35(4):356–60.
Cold spots on bone scans in patients wearing weighted breast prostheses. Wahner-Roedler DL, et al. **Clin Nucl Med** 1996 Oct;21(10):776–9
Carcinoma of the mammary crease simulating rodent ulcer basal cell carcinoma. Report of a case with immunohistochemical analysis [letter] Vazquez-López F, et al. **Dermatol Surg** 1997 Jun;23(6):494–5
Familial background in aberrant mammary tissue is a 'protective' factor against the development of nephrourinary anomalies [letter; comment] Urbani CE, et al. **Dermatology** 1996;192(3):293–4. Comment on: Dermatology 1995;190(3):207–9.
An unusual axillary mass. Gandhi A, et al.
Eur J Surg Oncol 1996 Oct;22(5):549–50
Comment on "TLD measurements of in vivo mammographic exposures and the calculated mean glandular dose across the United States" [Med. Phys. 23, 899–903 (1996)] [letter; comment] Nawfel RD. **Med Phys** 1997 Feb;24(2):309, 311 . Comment on: Med Phys 1996 Jun;23(6):899–903.
Clinical breast examinations. Avoiding misunderstandings. Coulter AJ, et al. **Minn Med** 1996 Oct;79(10):30–2
Supernumerary nipples and accessory breast tissue. Gilmore HT, et al. **S D J Med** 1996 May;49(5):149–51
Primary breast cancer in aberrant breast tissue in the axilla. Yerra L, et al. **South Med J** 1997 Jun;90(6):661–2 (9 ref.)
Quality of life among mastectomy patients using external breast prostheses. Hart S, et al. **Tumori** 1997 Mar-Apr; 83(2):581–6
[Experience in management of capsular contraction through areolar incision after implantation of prosthesis for augmentation mammaplasty] Luo S, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 Jul;11(4):251–2 (Eng. Abstr.) **(Chi)**
[Epicutaneous breast prosthesis after breast ablation] Münstedt K, et al. **Geburtshilfe Frauenheilkd** 1996 Jan; 56(1):8–12 (Eng. Abstr.) **(Ger)**
[Nonpalpable lesions of breast carcinoma in elderly patients] Caruso U, et al. **Minerva Chir** 1997 May;52(5):619–24 (23 ref.) (Eng. Abstr.) **(Ita)**
[Effect of the use of apparatus for mechanical stimulation of the breast on the blood prolactin content in lactating women] Alekseev NP, et al. **Fiziol Cheloveka** 1996 Jul-Aug;22(4):108–13 **(Rus)**

ABNORMALITIES

Breast and pectoralis muscle hypoplasia. A mild degree of Poland's syndrome. Perez Aznar JM, et al. **Acta Radiol** 1996 Sep;37(5):759–62
Personal approach to surgical correction of the extremely hypoplastic tuberous breast. Muti E.
Aesthetic Plast Surg 1996 Sep-Oct;20(5):385–90
Equatorial breast reduction: a new technique for the correction of moderate-to-large mammary hypertrophy. Saccomanno F. **Aesthetic Plast Surg** 1996 Nov-Dec; 20(6):503–11
Vertical scar breast reduction with medial flap or glandular transposition of the nipple-areola. Asplund OA, et al.
Br J Plast Surg 1996 Dec;49(8):507–14
"The reason for hating myself": a patient's request for breast reduction. Green AR. **Br J Plast Surg** 1996 Oct; 49(7):439–41
Reduction mammaplasty with the inferior pedicle technique: early and late complications in 371 patients. Mandrekas AD, et al. **Br J Plast Surg** 1996 Oct;49(7):442–6
The tuberous breast deformity: classification and treatment. von Heimburg D, et al. **Br J Plast Surg** 1996 Sep; 49(6):339–45
Reconstruction of breast asymmetry in Poland's chest-wall deformity using microvascular free flaps. Longaker MT, et al. **Plast Reconstr Surg** 1997 Feb;99(2):429–36
Reconstruction of scleroderma of the breast. Slavin SA, et al. **Plast Reconstr Surg** 1997 May;99(6):1736–41
An uncommon urologic presentation of a supernumerary breast. Leung W, et al. **Urology** 1997 Jul;50(1):122–4
[An improved technique for preserving the nipple sensation in McKissock reduction mammaplasty] Xu J, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 Jul;11(4):244–7 (Eng. Abstr.) **(Chi)**
[Risk of degeneration of an accessory breast] Bässler R.
Dtsch Med Wochenschr 1997 Aug 15;122(33):1022 **(Ger)**

ANATOMY & HISTOLOGY

Fatty and fibroglandular tissue volumes in the breasts of women 20–83 years old: comparison of X-ray mammography and computer-assisted MR imaging. Lee NA, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):501–6
Breast size in relation to endogenous hormone levels, body constitution, and oral contraceptive use in healthy nulligravid women aged 19–25 years. Jernström H, et al.
Am J Epidemiol 1997 Apr 1;145(7):571–80
Difficulty of obtaining wide tumour to deep fascial margins in Asian women with breast cancers: implications on treatment and prognosis. Ng EH, et al.
Ann Acad Med Singapore 1996 Mar;25(2):241–4
The role of Compton background and breast compression on cancer detection in scintimammography. Pani R, et al.
Anticancer Res 1997 May-Jun;17(3B):1645–9
Survey of doses in screening mammography. Heggie JC.
Australas Phys Eng Sci Med 1996 Dec;19(4):207–16
Breast size, breast reduction, and cancer risk [editorial; comment] Franceschi S. **Cancer Causes Control** 1997 Mar; 8(2):125–6 (18 ref.). Comment on: Cancer Causes Control 1997 Mar;8(2):253–8.
Correspondence re: J. Russo, A. L. Romero, and I. H. Russo, architectural pattern of the normal and cancerous breast under the influence of parity. Cancer Epidemiol., Biomarkers & Prev., 3: 219–224, 1994 [letter] Ursin G, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):143–4
Symmetry of projection in the quantitative analysis of mammographic images. Byng JW, et al.
Eur J Cancer Prev 1996 Oct;5(5):319–27
Breast size and breast cancer risk. Tavani A, et al.
Eur J Cancer Prev 1996 Oct;5(5):337–42
Optical imaging of anatomical maps derived from magnetic resonance images using time-independent optical sources. Chang J, et al. **IEEE Trans Med Imaging** 1997 Feb; 16(1):68–77
Effects at two years of a low-fat, high-carbohydrate diet on radiologic features of the breast: results from a randomized trial. Canadian Diet and Breast Cancer Prevention Study Group [see comments] Boyd NF, et al.
J Natl Cancer Inst 1997 Apr 2;89(7):488–96. Comment in: J Natl Cancer Inst 1997 Apr 2;89(7):466–7.
Breast mammographic changes among women adopting a low-fat eating pattern [editorial; comment] Prentice RL.
J Natl Cancer Inst 1997 Apr 2;89(7):466–7. Comment on: J Natl Cancer Inst 1997 Apr 2;89(7):488–96.
Effects of partial volume and phase shift between fat and water in gradient-echo magnetic resonance-mammography. Peller M, et al. **MAGMA** 1996 Jun;4(2):105–13
Multicoil array for high resolution imaging of the breast. Insko EK, et al. **Magn Reson Med** 1997 May;37(5):778–84
Evaluation of spatial resolution as a function of thickness for time-resolved optical imaging of highly scattering media. Hall DJ, et al. **Med Phys** 1997 Mar;24(3):361–8
Niobium/molybdenum K-edge filtration in mammography: contrast and dose evaluation. Calicchia A, et al.
Phys Med Biol 1996 Sep;41(9):1717–26
Determination of average glandular dose with modern mammography units for two large groups of patients. Klein R, et al. **Phys Med Biol** 1997 Apr;42(4):651–71
Evaluation of fat in breast tissue removed by vertical mammaplasty. Lejour M. **Plast Reconstr Surg** 1997 Feb; 99(2):386–93
Anthropomorphic breast measurement: protocol and results in 50 women with aesthetically perfect breasts and clinical application. Westreich M. **Plast Reconstr Surg** 1997 Aug; 100(2):468–79
Healthy premenopausal breast parenchyma in dynamic contrast-enhanced MR imaging of the breast: normal contrast medium enhancement and cyclical-phase dependency. Kuhl CK, et al. **Radiology** 1997 Apr; 203(1):137–44
Menstrual cycle and age: influence on parenchymal contrast medium enhancement in MR imaging of the breast [published erratum appears in Radiology 1997 Aug;204(2):583] Müller-Schimpfle M, et al. **Radiology** 1997 Apr;203(1):145–9
Measurement of breast volume with thermoplastic casts. Edsander-Nord A, et al.
Scand J Plast Reconstr Surg Hand Surg 1996 Jun; 30(2):129–32

BLOOD SUPPLY

Percutaneous repair of breast pseudoaneurysm: sonographically guided embolization. Beres RA, et al.
AJR Am J Roentgenol 1997 Aug;169(2):425–7
Mammograms may convey more than breast cancer risk: breast arterial calcification and arterio-sclerotic related diseases in women of the DOM cohort. van Noord PA, et al. **Eur J Cancer Prev** 1996 Dec;5(6):483–7
Mondor disease: an unusual consideration in a young woman with a breast mass. Cox EM, et al. **J Adolesc Health** 1997 Sep;21(3):183–5
Irradiation induced blood flow changes in the breast during radiotherapy--a pilot study. Nitzan M, et al.
J Basic Clin Physiol Pharmacol 1996;7(1):71–82
Mondor's disease as first thrombotic event in hereditary protein C deficiency and anticardiolipin antibodies. Wester JP, et al. **Neth J Med** 1997 Feb;50(2):85–7
An anatomic study of the internal mammary veins: clinical implications for free-tissue-transfer breast reconstruction. Clark CP 3rd, et al. **Plast Reconstr Surg** 1997 Feb; 99(2):400–4
Recipient vessels in free-flap breast reconstruction: a study of the internal mammary and thoracodorsal vessels. Feng LJ. **Plast Reconstr Surg** 1997 Feb;99(2):405–16
Influence of the site of skin incision on the circulation in the nipple-areola complex after subcutaneous mastectomy in breast cancer. Proano E, et al.
Scand J Plast Reconstr Surg Hand Surg 1996 Sep; 30(3):195–200
High resolution 3D color flow mapping: applied to the assessment of breast vasculature. Ferrara KW, et al.
Ultrasound Med Biol 1996;22(3):293–304
[Echo-, thermo- and rheographic assessments of the mammoplasty results using an allograft in patients with suppurative mastitis] Sakhautdinov VG, et al.
Vestn Khir Im I I Grek 1997;156(3):61–3 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Determination of silicon in breast and capsular tissue from patients with breast implants performed by inductively coupled plasma emission spectroscopy. Comparison with tissue histology. McConnell JP, et al. **Am J Clin Pathol** 1997 Feb;107(2):236–46
Polarizing calcifications [letter] Cook L, et al.
Am J Surg Pathol 1997 Feb;21(2):255–6
Raman spectra of breast tissue [news] Henry CM.
Anal Chem 1996 Dec 1;68(23):718A–719A
Fatty acid composition and CD36 expression in breast adipose tissue of premenopausal and postmenopausal women. Abbadia Z, et al. **Anticancer Res** 1997 Mar-Apr; 17(2A):1217–21
Photon linear attenuation coefficients and water content of normal and pathological breast tissues. al-Bahri JS, et al.
Appl Radiat Isot 1996 Aug;47(8):777–84
Discriminant analysis of normal and malignant breast tissue based upon INAA investigation of elemental concentration. Ng KH, et al. **Appl Radiat Isot** 1997 Jan;48(1):105–9
Breast composition and radiographic breast equivalence. McLean D. **Australas Phys Eng Sci Med** 1997 Mar; 20(1):11–9
Identification of novel exon-deleted progesterone receptor variant mRNAs in human breast tissue. Leygue E, et al.
Biochem Biophys Res Commun 1996 Nov 1;228(1):63–8
Immunohistochemical localization of prostate-specific antigen in benign and malignant breast tissues. Howarth DJ, et al. **Br J Cancer** 1997;75(11):1646–51
Differential expression of gp200-MR6 molecule in benign hyperplasia and down-regulation in invasive carcinoma of the breast. al-Tubuly AA, et al. **Br J Cancer** 1996 Oct; 74(7):1005–11
Prostate specific antigen in breast cancer, benign breast disease and normal breast tissue. Yu H, et al.
Breast Cancer Res Treat 1996;40(2):171–8
Expression of scatter factor and c-met receptor in benign and malignant breast tissue. Jin L, et al. **Cancer** 1997 Feb 15;79(4):749–60
Overexpression of eukaryotic initiation factor 4E (eIF4E) in breast carcinoma. Li BD, et al. **Cancer** 1997 Jun 15;

79(12):2385-90

Vitamin E concentration in breast adipose tissue of breast cancer patients (Kuopio, Finland). Zhu Z, et al. **Cancer Causes Control** 1996 Nov;7(6):591-5

New protein and PCR markers RAK for diagnosis, prognosis and surgery guidance for breast cancer. Rakowicz-Szulczynska EM, et al. **Cancer Lett** 1997 Jan 15;112(1):93-101

Genotoxicity of human mammary lipid. Martin FL, et al. **Cancer Res** 1996 Dec 1;56(23):5342-6

Breast cancer cells have lower activating protein 1 transcription factor activity than normal mammary epithelial cells. Smith LM, et al. **Cancer Res** 1997 Jul 15; 57(14):3046-54

Expression of estrogen receptors in a normal human breast epithelial cell type with luminal and stem cell characteristics and its neoplastically transformed cell lines. Kang KS, et al. **Carcinogenesis** 1997 Feb;18(2):251-7

A two-dimensional electrophoresis database of human breast epithelial cell proteins. Giometti CS, et al. **Electrophoresis** 1997 Mar-Apr;18(3-4):573-81

The characterization of a human RHAMM cDNA: conservation of the hyaluronan-binding domains. Wang C, et al. **Gene** 1996 Oct 3;174(2):299-306

Cytokeratin demonstration in thick breast tissue slices. Davies JD, et al. **Histochem J** 1997 May;29(5):409-12

On the distribution of insulin-like growth factors in breast tissues [letter] Spanakis E, et al. **Int J Cancer** 1996 Nov 15;68(4):555-6

Comparison of O-linked carbohydrate chains in MUC-1 mucin from normal breast epithelial cell lines and breast carcinoma cell lines. Demonstration of simpler and fewer glycan chains in tumor cells. Lloyd KO, et al. **J Biol Chem** 1996 Dec 27;271(52):33325-34

Differences in the estrogen content of breast adipose tissue in women by menopausal status and hormone use. O'Brien SN, et al. **Obstet Gynecol** 1997 Aug;90(2):244-8

Silicon analysis of breast and periprosthetic capsular tissue from patients with saline or silicone gel breast implants. Schnur PL, et al. **Plast Reconstr Surg** 1996 Oct; 98(5):798-803

CYTOLOGY

Establishment of breast cell cultures and lines from peoples of African origin. Ochieng J, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S240-5

Proliferation of breast epithelial cells in healthy women during the menstrual cycle. Söderqvist G, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):123-8

Cell cycle analysis of normal, atrophic, and hyperplastic breast epithelium using two-color multiparametric flow cytometry. Visscher DW, et al. **Anal Cell Pathol** 1996 Nov; 12(2):115-24

Changes in BRCA2 expression during progression of the cell cycle. Wang SC, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):247-51

Isolation and analysis of different subpopulations of normal human breast epithelial cells after their infection with a retroviral vector encoding a cell surface marker. Bardy P, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):153-65

Selective growth of freshly isolated human breast epithelial cells cultured at low concentrations in the presence or absence of bone marrow cells. Emerman JT, et al. **Breast Cancer Res Treat** 1996;41(2):147-59

Feasibility of obtaining breast epithelial cells from healthy women for studies of cellular proliferation. Miller NA, et al. **Breast Cancer Res Treat** 1997 May;43(3):201-9

Proliferation of the breast epithelium in relation to menstrual cycle phase, hormonal use, and reproductive factors. Olsson H, et al. **Breast Cancer Res Treat** 1996;40(2):187-96

Gamma-interferon induces an irreversible growth arrest in mid-G1 in mammary epithelial cells which correlates with a block in hyperphosphorylation of retinoblastoma. Harvat BL, et al. **Cell Growth Differ** 1996 Mar;7(3):289-300

Apoptosis is accompanied by changes in Bcl-2 and Bax expression, induced by loss of attachment, and inhibited by specific extracellular matrix proteins in mammary epithelial cells. Merio GR, et al. **Cell Growth Differ** 1997 Feb;8(2):251-60

All-trans-retinoic acid mediates G1 arrest but not apoptosis of normal human mammary epithelial cells. Seewaldt VL, et al. **Cell Growth Differ** 1997 Jun;8(6):631-41

Dietary estrogens stimulate human breast cells to enter the cell cycle. Dees C, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:633-6

Inhibition of gap junctional intercellular communication in normal human breast epithelial cells after treatment with pesticides, PCBs, and PBBs, alone or in mixtures. Kang KS, et al. **Environ Health Perspect** 1996 Feb;104(2):192-200

A paracrine role for myoepithelial cell-derived FGF2 in the normal human breast. Gomm JJ, et al. **Exp Cell Res** 1997 Jul 10;234(1):165-73

Molecular cytogenetic analysis of a nontumorigenic human breast epithelial cell line that eventually turns tumorigenic: validation of an analytical approach combining karyotyping, comparative genomic hybridization, chromosome painting, and single-locus fluorescence in situ hybridization. Nielsen KV, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):30-7

Growth requirements and neoplastic transformation of two types of normal human breast epithelial cells derived from reduction mammoplasty. Kao CY, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):282-8

Effect of stromal and epithelial cells derived from normal and tumorous breast tissue on the proliferation of human breast cancer cell lines in co-culture. Dong-Le Bourhis X, et al. **Int J Cancer** 1997 Mar 28;71(1):42-8

Ornithine decarboxylase over-expression stimulates mitogen-activated protein kinase and anchorage-independent growth of human breast epithelial cells. Manni A, et al. **Int J Cancer** 1997 Jan 17;70(2):175-82

Discrimination of fibroblast subtypes by multivariate analysis of gene expression. Spanakis E, et al. **Int J Cancer** 1997 May 2;71(3):402-9

Cell shape-dependent regulation of protein 4.1 alternative pre-mRNA splicing in mammary epithelial cells. Schischmanoff PO, et al. **J Biol Chem** 1997 Apr 11; 272(15):10254-9

Separated human breast epithelial and myoepithelial cells have different growth factor requirements in vitro but can reconstitute normal breast lobuloalveolar structure. Gomm JJ, et al. **J Cell Physiol** 1997 Apr;171(1):11-9

Coexpression of CD44 variant (v10/ex14) and CD44S in human mammary epithelial cells promotes tumorigenesis. Iida N, et al. **J Cell Physiol** 1997 May;171(2):152-60

Distribution of aromatase P450 transcripts and adipose fibroblasts in the human breast. Bulun SE, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1273-7

Automated detection of breast masses on mammograms using adaptive contrast enhancement and texture classification. Petrick N, et al. **Med Phys** 1996 Oct;23(10):1685-96

Image feature selection by a genetic algorithm: application to classification of mass and normal breast tissue. Sahiner B, et al. **Med Phys** 1996 Oct;23(10):1671-84

The role of p27Kip1 in gamma interferon-mediated growth arrest of mammary epithelial cells and related defects in mammary carcinoma cells. Harvat BL, et al. **Oncogene** 1997 May 1;14(17):2111-22

Non-invasive measurements of breast tissue optical properties using frequency-domain photon migration. Tromberg BJ, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):661-8

Brca2 is coordinately regulated with Brca1 during proliferation and differentiation in mammary epithelial cells. Rajan JV, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13078-83

RT-PCR based analysis of T-cell receptor B variable region gene usage in normal human breast skin resident T lymphocytes (SRT). Ahangari G, et al. **Scand J Immunol** 1996 Oct;44(4):330-4

Induction of cell migration by matrix metalloprotease-2 cleavage of laminin-5. Giannelli G, et al. **Science** 1997 Jul 11;277(5323):225-8

DRUG EFFECTS

Mammography in women undergoing hormone replacement therapy. Possible effects revealed at routine examination. Rand T, et al. **Acta Radiol** 1997 Mar;38(2):228-31

Differential mitogenicity of ovarian steroids on mammary explants [letter; comment] van Bogaert LJ. **Am J Obstet Gynecol** 1996 Nov;175(5):1393-4. Comment on: Am J Obstet Gynecol 1996 Jan;174(1 Pt 1):93-100.

DDT stimulates c-erbB2, c-met, and STATS tyrosine phosphorylation, Grb2-Sos association, MAPK phosphorylation, and proliferation of human breast epithelial cells. Shen K, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):17-21

Tamoxifen down-regulates CD36 messenger RNA levels in normal and neoplastic human breast tissues. Silva ID, et al. **Cancer Res** 1997 Feb 1;57(3):378-81

Filament disassembly and loss of mammary myoepithelial cells after exposure to lambda-carrageenan. Tobacman JK. **Cancer Res** 1997 Jul 15;57(14):2823-6

Carcinogenic polycyclic aromatic hydrocarbons increase intracellular Ca2+ and cell proliferation in primary human mammary epithelial cells. Tannheimer SL, et al. **Carcinogenesis** 1997 Jun;18(6):1177-82

The effect of hormone replacement therapy on recall rate in the National Health Service Breast Screening Programme. Litherland JC, et al. **Clin Radiol** 1997 Apr; 52(4):276-9

Dietary estrogens stimulate human breast cells to enter the cell cycle. Dees C, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:633-6

Estrogenic activity of tamoxifen on normal mammary parenchyma in the luteal phase of the menstrual cycle. Facina G, et al. **Int J Gynaecol Obstet** 1997 Jan;56(1):19-24

Progestins: present and future [editorial] **J Steroid Biochem Mol Biol** 1996 Dec;59(5-6):357-63

RU486 is a potent inhibitor of aromatase induction in human breast adipose tissue stromal cells. Schmidt M, et al. **J Steroid Biochem Mol Biol** 1997 Feb;60(3-4):197-204

Mammographic changes in women on hormonal replacement therapy. Erel CT, et al. **Maturitas** 1996 Aug;25(1):51-7

ASPB10 insulin induction of increased mitogenic responses and phenotypic changes in human breast epithelial cells: evidence for enhanced interactions with the insulin-like growth factor-I receptor. Milazzo G, et al. **Mol Carcinog** 1997 Jan;18(1):19-25

Genotoxicity of environmental agents in human mammary epithelial cells: a trigger for human breast cancer. Eldridge SR, et al. **Prog Clin Biol Res** 1997;396:125-31 (35 ref.)

[Mammography changes associated with hormone replacement therapy in post-menopausal patients] Del Favero C, et al. **Radiol Med (Torino)** 1997 Mar;93(3):210-3 (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

Protein tyrosine kinase activity in breast cancer and its relation to prognostic indicators. Kopreski MS, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3037-41

Alternative splicing of CYP2D mRNA in human breast tissue. Huang Z, et al. **Arch Biochem Biophys** 1997 Jul 1; 343(1):101-8

Identification of MMP-18, a putative novel human matrix metalloproteinase. Cossins J, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):494-8

Identification of four novel human phosphoinositide 3-kinases defines a multi-isoform subfamily. Ho LK, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):130-7

Presence of endothelial calcium-dependent nitric oxide synthase in breast apocrine metaplasia. Tschugguel W, et al. **Br J Cancer** 1996 Nov;74(9):1423-6

Kinetics of arylamine N-acetyltransferase in tissues from human breast cancer. Lee JH, et al. **Cancer Lett** 1997 Jan 1;111(1-2):39-50

Localization of O6-alkylguanine transferase in cancer susceptible cells of human female breast. Musarrat J, et al. **Cancer Lett** 1996 Nov 12;108(1):111-8

Phorbol ester-induced cell surface association of matrix metalloproteinase-9 in human MCF10A breast epithelial cells. Toth M, et al. **Cancer Res** 1997 Aug 1;57(15):3159-67

Sequential activation and production of matrix metalloproteinase-2 during breast cancer progression. Lee KS, et al. **Clin Exp Metastasis** 1996 Nov;14(6):512-9

Expression of cytochromes P450 in human breast tissue and tumors. Huang Z, et al. **Drug Metab Dispos** 1996 Aug; 24(8):899-905

Elevation of protein kinase A and protein kinase C activities in malignant as compared with normal human breast tissue. Gordge PC, et al. **Eur J Cancer** 1996 Nov;32A(12):2120-6

Alanine aminopeptidase activities in cancerous and non-cancerous human breast tissues [letter] Elgün S, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar;35(3):249

Identification and characterization of a stereospecific human enzyme that catalyzes 9-cis-retinol oxidation. A possible role in 9-cis-retinoic acid formation. Mertz JR, et al. **J Biol Chem** 1997 May 2;272(18):11744-9

Analysis of cathepsin D from breast tissues by capillary electrophoresis. Shihabi ZK, et al. **J Chromatogr B Biomed Appl** 1996 Aug 9;683(1):125-31

Use of alternative promoters to express the aromatase cytochrome P450 (CYP19) gene in breast adipose tissues of cancer-free and breast cancer patients. Agarwal VR, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3843-9

Aromatase activity and expression in breast cancer and benign breast tissue stromal cells. Santner SJ, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):200-8

Purification and characterization of cathepsin D from normal human breast tissue. Wright LM, et al. **J Protein Chem** 1997 Apr;16(3):171-81

Optimization of a classical aromatase activity assay and application in normal, adenomatous and malignant breast parenchyma. Dikkeschei LD, et al. **J Steroid Biochem Mol Biol** 1996 Nov;59(3-4):305-13

11 beta-Hydroxysteroid dehydrogenase 1 activity and gene expression in human adipose stromal cells: effect on aromatase activity. Yang K, et al. **J Steroid Biochem Mol Biol** 1997 Feb;60(3-4):247-53

Cyclin D2 activates Cdk2 in preference to Cdk4 in human breast epithelial cells. Sweeney KJ, et al. **Oncogene** 1997 Mar 20;14(11):1329-40

[Measurement of aspecific alkaline phosphatase in the intraoperative histological examination of the breast] Vigliani R, et al. **Pathologica** 1997 Feb;89(1):44-53 (Eng. Abstr.) **(Ita)**

GROWTH & DEVELOPMENT

Luteinizing hormone resistance syndromes. Tsigos C, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:263-73

Extracellular matrix remodeling as a regulator of stromal-epithelial interactions during mammary gland development, involution and carcinogenesis. Werb Z, et al. **Braz J Med Biol Res** 1996 Sep;29(9):1087-97

Differentiation antigens in stromal and epithelial cells of the breast. Kamalati T, et al. **Cancer Treat Res** 1996;83:227-42 (57 ref.)

Premature thelarche: a long-term follow-up. Verrotti A, et al. **Gynecol Endocrinol** 1996 Aug;10(4):241-7

Collagenase III: a superior enzyme for complete disaggregation and improved viability of normal and malignant human breast tissue [letter] Speirs V, et al. **In Vitro Cell Dev Biol Anim** 1996 Feb;32(2):72-4

The role of laminin-5 and its receptors in mammary epithelial cell branching morphogenesis. Stahl S, et al. **J Cell Sci** 1997 Jan;110 (Pt 1):55-63

IMMUNOLOGY

[New approaches in evaluating the antitumor immune response in breast cancer] Glushkov AN, et al. **Vopr Onkol** 1996;42(6):33-6 (Eng. Abstr.) **(Rus)**

INJURIES

Garlic burns of the breast [letter] Roberge RJ, et al.

Am J Emerg Med 1997 Sep;15(5):548

Thermal injuries following TRAM flap breast reconstruction. Alexandrides IJ, et al. **Ann Plast Surg** 1997 Apr; 38(4):335–41

Pinching breast injury on the Bennett contour mammography unit. **Health Devices** 1996 Jan;25(1):40–1

Female breast burns: conservative treatment with a reconstructive aim. Burvin R, et al. **Isr J Med Sci** 1996 Dec;32(12):1297–301

Susceptibility of the insensate reconstructed breast to burn injury [letter; comment] Kay AR, et al.
Plast Reconstr Surg 1997 Mar;99(3):927. Comment on: Plast Reconstr Surg 1996 May;97(6):1306–7.

Heating pad burn of a reconstructed breast [letter] Restifo RJ. **Plast Reconstr Surg** 1997 Aug;100(2):547–8

[A puzzling case. Migration of a foreign body from one breast to the other (letter)] Granier JP, et al. **J Chir (Paris)** 1996 Sep;133(6):287–9 **(Fre)**

INNERVATION

Sensory reinnervation of autologous tissue TRAM flaps after breast reconstruction. Place MJ, et al. **Ann Plast Surg** 1997 Jan;38(1):19–22

The cutaneous innervation of the female breast and nipple–areola complex: implications for surgery. Jaspars JJ, et al. **Br J Plast Surg** 1997 Jun;50(4):249–59

Nerve supply of the breast with special reference to the nipple and areola: Sir Astley Cooper revisited. Sarhadi NS, et al. **Clin Anat** 1997;10(4):283–8

METABOLISM

Measurement of retinoids and carotenoids in breast adipose tissue and a comparison of concentrations in breast cancer cases and control subjects. Zhang S, et al.
Am J Clin Nutr 1997 Sep;66(3):626–32

The cell–cell adhesion receptor Mel–CAM acts as a tumor suppressor in breast carcinoma. Shih LM, et al.
Am J Pathol 1997 Sep;151(3):745–51

Coincidence between spontaneous release of interferon and tumor necrosis factor by colostral leukocytes and the production of a colostrinine by human mammary gland after normal delivery. Piasecki E, et al.
Arch Immunol Ther Exp (Warsz) 1997;45(1):109–17

Expression of the receptor protein tyrosine kinase myk–1/htk in normal and malignant mammary epithelium. Berclaz G, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):869–75

Lipid metabolism in the lactating mammary gland. Barber MC, et al. **Biochim Biophys Acta** 1997 Aug 16; 1347(2–3):101–26 (257 ref.)

Angiotensin II type 1 receptor expression in human breast tissues. Inwang ER, et al. **Br J Cancer** 1997;75(9):1279–83

Expression of the estrogen receptor gene in developing and adult human breast. Boyd M, et al.
Breast Cancer Res Treat 1996;37(3):243–51

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al.
Breast Cancer Res Treat 1996;41(2):103–9

Epidermal growth factor receptor and c–erbB–2 expression in normal breast tissue during the menstrual cycle. Gompel A, et al. **Breast Cancer Res Treat** 1996;38(2):227–35

Cathepsins D, B, and L in transformed human breast epithelial cells. Lah TT, et al. **Breast Cancer Res Treat** 1996;39(2):221–33

Characterization of the estrogen receptor transfected MCF10A breast cell line 139B6. Pilat MJ, et al.
Breast Cancer Res Treat 1996;37(3):253–66

Expression of the prolactin gene in normal and neoplastic human breast tissues and human mammary cell lines: promoter usage and alternative mRNA splicing. Shaw–Bruha CM, et al. **Breast Cancer Res Treat** 1997 Jul; 44(3):243–53

Stimulatory influence of soy protein isolate on breast secretion in pre– and postmenopausal women. Petrakis NL, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Oct; 5(10):785–94

Lipid peroxidation–induced putative malondialdehyde–DNA adducts in human breast tissues. Wang M, et al.
Cancer Epidemiol Biomarkers Prev 1996 Sep;5(9):705–10

Thrombospondin–1 and –2 messenger RNA expression in normal, benign, and neoplastic human breast tissues: correlation with prognostic factors, tumor angiogenesis, and fibroblastic desmoplasia. Bertin N, et al.
Cancer Res 1997 Feb 1;57(3):396–9

Compartment switching of WNT–2 expression in human breast tumors. Dale TC, et al. **Cancer Res** 1996 Oct 1; 56(19):4320–3

Lovastatin induction of cyclin–dependent kinase inhibitors in human breast cells occurs in a cell cycle–independent fashion. Gray–Bablin J, et al. **Cancer Res** 1997 Feb 15; 57(4):604–9

Fas expression and function in normal and malignant breast cell lines. Keane MM, et al. **Cancer Res** 1996 Oct 15; 56(20):4791–8

Luteinizing hormone/human chorionic gonadotropin receptors in breast cancer. Meduri G, et al. **Cancer Res** 1997 Mar 1;57(5):857–64

Carcinogenic polycyclic aromatic hydrocarbons increase intracellular Ca2+ and cell proliferation in primary human mammary epithelial cells. Tannheimer SL, et al.
Carcinogenesis 1997 Jun;18(6):1177–82

Cell cycle regulation of BRCA1 messenger RNA in human breast epithelial cells. Gudas JM, et al.
Cell Growth Differ 1996 Jun;7(6):717–23

Differential expression of annexin I in human mammary ductal epithelial cells in normal and benign and malignant breast tissues. Ahn SH, et al. **Clin Exp Metastasis** 1997 Mar;15(2):151–6

Microdialysis of human breast tissue during the menstrual cycle. Dabrosin C, et al. **Clin Sci (Colch)** 1997 May; 92(5):493–6

Method to make paraffin–embedded breast and lymph tissue mimic fresh tissue in DNA analysis. Overton WR, et al. **Cytometry** 1996 Jun 15;26(2):166–71

Expression of beta–catenin in normal breast tissue and breast carcinoma: a comparative study with epithelial cadherin and alpha–catenin. Hashizume R, et al. **Histopathology** 1996 Aug;29(2):139–46

Expression of cytokeratin messenger RNA versus protein in the normal mammary gland and in breast cancer. Su L, et al. **Hum Pathol** 1996 Aug;27(8):800–6

Bauhinia purpurea and Pisum sativum lectin binding in human breast. Sarker AB, et al.
Indian J Pathol Microbiol 1995 Jul;38(3):261–5

Somatostatin and growth hormone–releasing hormone in normal and tumoral human breast tissue: endogenous content, in vitro pulsatile release, and regulation. Benlot C, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):690–6

Distribution of aromatase P450 transcripts and adipose fibroblasts in the human breast. Bulun SE, et al.
J Clin Endocrinol Metab 1996 Mar;81(3):1273–7

Variability of glutathione levels in normal breast tissue and subcutaneous fat during the menstrual cycle: an in vivo study with microdialysis technique. Dabrosin C, et al.
J Clin Endocrinol Metab 1997 May;82(5):1382–4

Oestrogen formation in breast: clinical and biological importance. Dowsett M, et al. **J Endocrinol** 1996 Sep;150 Suppl:S59–63

Cellular distribution of the angiogenic factor heparin affin regulatory peptide (HARP) mRNA and protein in the human mammary gland. Ledoux D, et al.
J Histochem Cytochem 1997 Sep;45(9):1239–45

Interleukin–2 activation of cytotoxic cells in postmastectomy seroma. Gercel–Taylor C, et al. **J Surg Res** 1996 Feb 15; 61(1):89–96

Lipid composition changes in normal breast throughout the menstrual cycle. Dzendrowskyj TE, et al. **MAGMA** 1997 Jun;5(2):105–10

Molecular mechanisms of hormone controlled gene expression in the breast. Hennighausen L. **Mol Biol Rep** 1997 Aug;24(3):169–74 (43 ref.)

Transforming growth factor beta stabilizes p15INK4B protein, increases p15INK4B–cdk4 complexes, and inhibits cyclin D1–cdk4 association in human mammary epithelial cells. Sandhu C, et al. **Mol Cell Biol** 1997 May; 17(5):2458–67

Co–integration of beta–lactoglobulin/human serum albumin hybrid genes with the entire beta–lactoglobulin gene or the matrix attachment region element: repression of human serum albumin and beta–lactoglobulin expression in the mammary gland and dual regulation of the transgenes. Barash I, et al. **Mol Reprod Dev** 1996 Dec;45(4):421–30

Comparative expression of the LINE–1 p40 protein in human breast carcinomas and normal breast tissues. Asch HL, et al. **Oncol Res** 1996;8(6):239–47

Three variants of parathyroid hormone–related protein messenger RNA are expressed in human mammary gland. Andersson Y, et al. **Pediatr Res** 1997 Mar;41(3):380–3

Brca2 is coordinately regulated with Brca1 during proliferation and differentiation in mammary epithelial cells. Rajan JV, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13078–83

PARASITOLOGY

Detection by ultrasound of living adult Wuchereria bancrofti in the female breast. Dreyer G, et al.
Mem Inst Oswaldo Cruz 1996 Jan–Feb;91(1):95–6

PATHOLOGY

Surveillance mammography and stereotactic core breast biopsy for probably benign lesions: a cost comparison analysis. Brenner RJ, et al. **Acad Radiol** 1997 Jun; 4(6):419–25

Interactive MR–guided, 14–gauge core–needle biopsy of enhancing lesions in a breast phantom mode. Daniel BL, et al. **Acad Radiol** 1997 Jul;4(7):508–12

Cost–effectiveness of stereotaxic breast core needle biopsy. Fajardo LL. **Acad Radiol** 1996 Apr;3 Suppl 1:S21–3

Patient perceptions of stereotaxic large–core breast biopsy. Handy RB, et al. **Acad Radiol** 1996 Dec;3(12):1007–11

Selective use of image–guided large–core needle biopsy of the breast: accuracy and cost–effectiveness. Harvey JA. **Acad Radiol** 1996 May;3(5):442–3; discussion 443–4

Evaluation of a turkey–breast phantom for teaching freehand, US–guided core–needle breast biopsy. Harvey JA, et al. **Acad Radiol** 1997 Aug;4(8):565–9

Estimating the cost–effectiveness of stereotaxic biopsy for nonpalpable breast abnormalities: a decision analysis model. Hillner BE, et al. **Acad Radiol** 1996 Apr;3(4):351–60

Computed tomography–guided needle localization of nonpalpable breast lesions: review of 24 cases. Spillane RM, et al. **Acad Radiol** 1996 Feb;3(2):115–20

The uniform approach to breast fine needle aspiration biopsy. A synopsis. **Acta Cytol** 1996 Nov–Dec;40(6):1120–6; discussion 1119

Cytology of "significant" breast ductal proliferations. Gangopadhyay M, et al. **Acta Cytol** 1997 Jul–Aug; 41(4):1112–20

Criteria for reporting fine needle aspiration on palpable and nonpalpable masses of the breast [editorial] Logrono R, et al. **Acta Cytol** 1997 May–Jun;41(3):623–7

Fine needle aspiration cytology of juvenile hypertrophy of the breast [letter] Pangarkar MA, et al. **Acta Cytol** 1997 May–Jun;41(3):940–1

Marked neonatal breast hypertrophy in a male with transient hyperprolactinemia. Hung W. **Acta Paediatr Sin** 1996 Jul–Aug;37(4):286–8

Mammary hypertrophy: a personal approach. Kaminsky A. **Aesthetic Plast Surg** 1997 May–Jun;21(3):187–90

Mammographic changes after excisional breast biopsy for benign disease. Brenner RJ, et al.
AJR Am J Roentgenol 1996 Oct;167(4):1047–52

Re: Core needle biopsy of synchronous ipsilateral breast lesions [letter; comment] Hall FM.
AJR Am J Roentgenol 1997 Mar;168(3):843–4. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1429–32.

Impact of core biopsy on the surgical management of impalpable breast cancer. Liberman L, et al.
AJR Am J Roentgenol 1997 Feb;168(2):495–9

Use of breast core biopsy in the United States: results of a national survey. March DE, et al.
AJR Am J Roentgenol 1997 Sep;169(3):697–701

Diagnostic performance characteristics of architectural features revealed by high spatial–resolution MR imaging of the breast. Nunes LW, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):409–15

Fibromatosis of the breast diagnosed by stereotaxic core biopsy [letter] Shuler FJ, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):846–7

Detection with MR imaging of residual tumor in the breast soon after surgery [see comments] Soderstrom CE, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):485–8. Comment in: AJR Am J Roentgenol 1997 Sep;169(3):909–10.

Analysis of parenchymal density on mammograms in 1353 women 25–79 years old. Stomper PC, et al.
AJR Am J Roentgenol 1996 Nov;167(5):1261–5

Frozen sections and breast biopsies [letter; comment] Givelber HM. **Am J Clin Pathol** 1997 Apr;107(4):493. Comment on: Am J Clin Pathol 1996 Aug;106(2):225–8.

Cancerization of small ectatic ducts of the breast by ductal carcinoma in situ cells with apocrine snouts: a lesion associated with tubular carcinoma. Goldstein NS, et al.
Am J Clin Pathol 1997 May;107(5):561–6

Frozen sections and breast biopsies [letter; comment] Wightman HR. **Am J Clin Pathol** 1997 Apr;107(4):493. Comment on: Am J Clin Pathol 1996 Aug;106(2):225–8.

Adenoma of anogenital mammary–like glands. Donati P, et al. **Am J Dermatopathol** 1996 Feb;18(1):73–6

Accuracy of mammographic appearances after breast fine–needle aspiration. Hindle WH, et al.
Am J Obstet Gynecol 1997 Jun;176(6):1286–90; discussion 1290–2

Cost effectiveness and accuracy of stereotactic breast biopsy [letter; comment] Hurley JE 2nd. **Am J Surg** 1997 May; 173(5):454. Comment on: Am J Surg 1996 May;171(5):471–3. Comment on: Am J Surg 1996 May;171(5):474–6.

A stereotactic stand–off [editorial] Norton LW.
Am J Surg 1997 Mar;173(3):151–2

Breast frozen sections [letter; comment] Fechner RE.
Am J Surg Pathol 1996 Oct;20(10):1296. Comment on: Am J Surg Pathol 1995 Nov;19(11):1267–71.

Breast frozen sections [letter; comment] Zardawi IM.
Am J Surg Pathol 1996 Oct;20(10):1296–7. Comment on: Am J Surg Pathol 1995 Nov;19(11):1267–71.

The impact of image–directed core biopsy on the practice of breast surgery: a new algorithm for a changing technology. Stolier AJ, et al. **Am Surg** 1997 Sep; 63(9):827–30

Reproducibility of Bayesian belief network assessment of breast fine needle aspirates. Whimster WF, et al.
Anal Quant Cytol Histol 1996 Aug;18(4):267–74

Reduction mammaplasty: the results of avoiding nipple–areolar amputation in cases of extreme hypertrophy. Chang P, et al. **Ann Plast Surg** 1996 Dec;37(6):585–91

Mammary gangrene associated with warfarin ingestion. Isenberg JS, et al. **Ann Plast Surg** 1996 Nov;37(5):553–5

Routine contralateral breast biopsy: helpful or irrelevant? Experience in 871 patients, 1979–1993. Cody HS 3rd.
Ann Surg 1997 Apr;225(4):370–6 (33 ref.)

Association of breast cancer with the finding of atypical ductal hyperplasia at core breast biopsy. Moore MM, et al. **Ann Surg** 1997 Jun;225(6):726–31; discussion 731–3

Ultrasound–guided biopsy of nonpalpable breast masses by surgeons. Staren ED. **Ann Surg Oncol** 1996 Sep;3(5):476–82

Surgical biopsy findings in patients with atypical hyperplasia diagnosed by stereotaxic core needle biopsy. Tocino I, et al. **Ann Surg Oncol** 1996 Sep;3(5):483–8

Benign and malignant stellate breast lesions: structural differences in 5 microns sections and thick tissue slices. Kulka J, et al. **Anticancer Res** 1996 Nov–Dec; 16(6C):3965–70

Nuclear grooves in fine needle aspiration (FNA) biopsies of breast lesions. Labropoulou P, et al. **Anticancer Res** 1996

Nov-Dec;16(6C):3959-63

Localization of mineralocorticoid receptor and 11 beta-hydroxysteroid dehydrogenase type II in human breast and its disorders. Sasano H, et al. **Anticancer Res** 1997 May-Jun;17(3C):2001-7

Mammographically directed breast biopsies: a College of American Pathologists Q-Probes study of clinical physician expectations and of specimen handling and reporting characteristics in 434 institutions. Nakhleh RE, et al. **Arch Pathol Lab Med** 1997 Jan;121(1):11-8

Outcome for patients with bulimia and breast hypertrophy after reduction mammaplasty. Kreipe RE, et al. **Arch Pediatr Adolesc Med** 1997 Feb;151(2):176-80

Stereotactic fine needle aspiration in the management of mammographic abnormalities detected in breast screening [see comments] Chan MC, et al. **Aust N Z J Surg** 1996 Sep;66(9):595-7. Comment in: Aust N Z J Surg 1996 Sep;66(9):577-9.

Stereotactic 14 gauge core-biopsy of the breast: results from 101 patients [see comments] Frayne J, et al. **Aust N Z J Surg** 1996 Sep;66(9):585-91 (26 ref.). Comment in: Aust N Z J Surg 1996 Sep;66(9):577-9.

The evolving role of fine needle cytology and core-biopsy in the diagnosis of breast cancer [editorial; comment] Kitchen PR, et al. **Aust N Z J Surg** 1996 Sep;66(9):577-9 . Comment on: Aust N Z J Surg 1996 Sep;66(9):585-91. Comment on: Aust N Z J Surg 1996 Sep;66(9):592-4. Comment on: Aust N Z J Surg 1996 Sep;66(9):595-7.

Diagnosis of breast cancer with core-biopsy and fine needle aspiration cytology [see comments] Poole GH, et al. **Aust N Z J Surg** 1996 Sep;66(9):592-4. Comment in: Aust N Z J Surg 1996 Sep;66(9):577-9.

Breast MRI: early experience with a 3-D fat-suppressed gradient echo sequence in the evaluation of breast lesions. Holden A, et al. **Australas Radiol** 1996 Nov;40(4):391-7

Stereotactic large-gauge core biopsy: its role in the diagnosis of non-palpable mammographic abnormalities presenting to a screening service. Sutton S, et al. **Australas Radiol** 1997 May;41(2):103-8

Mammary epithelial hyperplasias: alterations related solely to proliferation? Burbano RR, et al. **Breast Cancer Res Treat** 1996;41(2):95-101

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103-9

Cellular proliferative activity of mammographic normal dense and fatty tissue determined by DNA S phase percentage. Stomper PC, et al. **Breast Cancer Res Treat** 1996;37(3):229-36

Stereotactic core-needle biopsy of the breast: a report of the Joint Task Force of the American College of Radiology, American College of Surgeons, and College of American Pathologists. Bassett L, et al. **CA Cancer J Clin** 1997 May-Jun;47(3):171-90 (84 ref.)

An update on core needle biopsy for radiologically detected breast lesions. Nguyen M, et al. **Cancer** 1996 Dec 1; 78(11):2340-5 (17 ref.)

Preoperative prediction of open breast biopsy results. Seltzer MH. **Cancer** 1997 May 1;79(9):1822-7

Comparison of fine needle aspiration and Tru-Cut biopsy of palpable mammary lesions. Scopa CD, et al. **Cancer Detect Prev** 1996;20(6):620-4

A BRCA1 mutant alters G2-M cell cycle control in human mammary epithelial cells. Larson JS, et al. **Cancer Res** 1997 Aug 15;57(16):3351-5

Gravidic macromastia. A problem for the patient and for the doctor. Szczurowicz A, et al. **Clin Exp Obstet Gynecol** 1996;23(3):177-80

The impact of core-biopsy on pre-operative diagnosis rate of screen-detected breast cancers [letter; comment] Muir BB, et al. **Clin Radiol** 1997 Jul;52(7):566-7. Comment on: Clin Radiol 1996 Aug;51(8):562-5.

The uniform approach to breast fine-needle aspiration biopsy. National Cancer Institute Fine-Needle Aspiration of Breast Workshop Subcommittees. **Diagn Cytopathol** 1997 Apr; 16(4):295-311

Myoblastomatoid carcinoma of the breast: an unusual variant of apocrine carcinoma: report of a case with fine-needle aspiration cytology and immunohistochemical study. Cohen H, et al. **Diagn Cytopathol** 1997 Feb;16(2):145-8

Fine-needle aspiration of well differentiated small-cell duct carcinoma of the breast. Fiorella RM, et al. **Diagn Cytopathol** 1997 Mar;16(3):226-9

Adequacy and aspirates from the breast: a philosophical approach. Kline TS. **Diagn Cytopathol** 1995 Dec; 13(5):470-2 (18 ref.)

Intramammary lymph nodes: cytologic findings and implications for fine-needle aspiration cytology diagnosis of breast nodules. Layfield LJ, et al. **Diagn Cytopathol** 1997 Sep;17(3):223-9

Cytologic features of a combined tubular adenoma and fibroadenoma of the breast [letter] Liu K, et al. **Diagn Cytopathol** 1997 Feb;16(2):184-6

Fine-needle biopsy of breast: when is enough, enough? Moriarty AT. **Diagn Cytopathol** 1995 Dec;13(5):373-4

The breast and aspirate-outside the ivory tower [editorial] Rollins SD. **Diagn Cytopathol** 1997 Mar;16(3):197-9

What constitutes adequate sampling of palpable breast lesions that appear benign by clinical and mammographic criteria? Stanley MW, et al. **Diagn Cytopathol** 1995 Dec;13(5):473-82

The Tabár classification of mammographic parenchymal patterns. Gram IT, et al. **Eur J Radiol** 1997 Feb;24(2):131-6

Impalpable breast lesions diagnosed by mammography: incidence of histologically confirmed malignancy. Rothman LP, et al. **Eur J Surg** 1996 Sep;162(9):691-4

Wire-directed localization biopsy of the breast: an audit of results and analysis of factors influencing therapeutic value in the treatment of breast cancer. Chadwick DR, et al. **Eur J Surg Oncol** 1997 Apr;23(2):128-33

Factors affecting surgical margin clearance in screen-detected breast cancer and the effect of cavity biopsies on residual disease. Chinyama CN, et al. **Eur J Surg Oncol** 1997 Apr;23(2):123-7

Radial scars: a review of 30 cases. Patel A, et al. **Eur J Surg Oncol** 1997 Jun;23(3):202-5

Prognostic value of contrast-enhanced MR mammography in patients with breast cancer. Fischer U, et al. **Eur Radiol** 1997;7(7):1002-5

Paraffin tissue block radiography of nonpalpable lesions with calcifications detected at mammography: 5-year consecutive series of surgically excised cases. Thurfjell E, et al. **Eur Radiol** 1997;7(7):1006-9

Membranous fat necrosis of the breast. Coyne JD, et al. **Histopathology** 1996 Jan;28(1):61-4

Carcinoma in situ involving sclerosing adenosis [letter; comment] Fechner RE. **Histopathology** 1996 Jun;28(6):570 . Comment on: Histopathology 1995 Sep;27(3):269-73.

Extratumoral breast tissue in breast cancer patients: a multinational study of variations with age and country of residence in low- and high-risk countries. WHO Collaborative Study of Neoplasia and Steroid Contraceptives. Aaman TB, et al. **Int J Cancer** 1997 May 2;71(3):333-9

Vascular endothelial growth factor (VEGF) in human breast cancer: correlation with disease-free survival. Obermair A, et al. **Int J Cancer** 1997 Aug 22;74(4):455-8

Specimen mammography-guided fine-needle aspirates of clinically occult benign and malignant lesions. Analysis of cell number and type. Stomper PC, et al. **Invest Radiol** 1997 May;32(5):277-81

The detection of breast microcalcifications with medical ultrasound. Anderson ME, et al. **J Acoust Soc Am** 1997 Jan;101(1):29-39

Advanced breast cancer biopsy instrumentation: a critique. Ferzli GS, et al. **J Am Coll Surg** 1997 Aug;185(2):145-51

Detection of monoclonal microsatellite alterations in atypical breast hyperplasia. Rosenberg CL, et al. **J Clin Invest** 1996 Sep 1;98(5):1095-100

Fetal breasts in normal and Down syndrome fetuses. Petrikovsky BM, et al. **J Clin Ultrasound** 1996 Nov-Dec; 24(9):507-11

Limitations of the keyhole technique for quantitative dynamic contrast-enhanced breast MRI. Bishop JE, et al. **J Magn Reson Imaging** 1997 Jul-Aug;7(4):716-23

Pharmacokinetic analysis of Gd-DTPA enhancement in dynamic three-dimensional MRI of breast lesions. den Boer JA, et al. **J Magn Reson Imaging** 1997 Jul-Aug;7(4):702-15

MR lesion detection in a breast cancer population. Obdeijn IM, et al. **J Magn Reson Imaging** 1996 Nov-Dec; 6(6):849-54

MR imaging of silicone breast implants: evaluation of prospective and retrospective interpretations and interobserver agreement. Quinn SF, et al. **J Magn Reson Imaging** 1996 Jan-Feb;6(1):213-8

Pulsed magnetization transfer contrast for MR imaging with application to breast. Santyr GE, et al. **J Magn Reson Imaging** 1996 Jan-Feb;6(1):203-12

Intracapsular implant rupture: MR findings of incomplete shell collapse. Soo MS, et al. **J Magn Reson Imaging** 1997 Jul-Aug;7(4):724-30

Epidemiological clues from screening [editorial] De Waard F. **J Med Screen** 1997;4(1):2

Studying mammographic density: implications for understanding breast cancer [editorial; comment] Byrne C. **J Natl Cancer Inst** 1997 Apr 16;89(8):531-3. Comment on: J Natl Cancer Inst 1997 Apr 16;89(8):549-56.

Genetic analysis of mammographic breast density in adult women: evidence of a gene effect [see comments] Pankow JS, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):549-56. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):531-3.

Radionuclide-guided stereotactic prebiopsy localization of nonpalpable breast lesions with normal mammograms. Khalkhali I, et al. **J Nucl Med** 1997 Jul;38(7):1019-22

Computerized scene segmentation for the discrimination of architectural features in ductal proliferative lesions of the breast. Anderson NH, et al. **J Pathol** 1997 Apr; 181(4):374-80

The spectrum of 67-kD laminin receptor expression in breast carcinoma progression. Viacava P, et al. **J Pathol** 1997 May;182(1):36-44

Sir James Young Simpson Memorial Lecture 1995. Breast cancer prevention: a pathologist's approach. Simpson HW. **J R Coll Surg Edinb** 1996 Dec;41(6):359-70

Application of image analysis and neural networks to the pathology diagnosis of intraductal proliferative lesions of the breast. Fukushima N, et al. **Jpn J Cancer Res** 1997 Mar;88(3):328-33

Immunoreaction at 43 kDa with anti-ubiquitin antibody in breast neoplasms. Iwaya K, et al. **Jpn J Cancer Res** 1997 Mar;88(3):273-80

Preoperative chemotherapy induces apoptosis in early breast cancer [letter] Ellis PA, et al. **Lancet** 1997 Mar 22; 349(9055):849

Breast-duct endoscopy to study stages of cancerous breast disease. Love SM, et al. **Lancet** 1996 Oct 12; 348(9033):997-9

Choice of contrast enhancement index for dynamic magnetic resonance mammography. Brookes JA, et al. **Magn Reson Imaging** 1996;14(9):1023-31

Dynamic sequential 3D gadolinium-enhanced MRI of the whole breast. Heiberg EV, et al. **Magn Reson Imaging** 1996; 14(4):337-48

Fine-needle aspiration cytology of the breast: a preliminary report on telepathology through Internet multimedia electronic mail. Della Mea V, et al. **Mod Pathol** 1997 Jun; 10(6):636-41

Pitfalls in cytology of the breast. Bottles K. **Monogr Pathol** 1997;(39):134-46 (35 ref.)

Visualization of silicone gel in human breast tissue using new infrared imaging spectroscopy. Kidder LH, et al. **Nat Med** 1997 Feb;3(2):235-7

The factors important for successful fine-needle aspiration biopsies: a comparative study of breast diagnoses at two hospitals. Ljung BM, et al. **Pathology (Phila)** 1996; 4(2):493-8

Fine-needle aspiration of the breast. Sanchez MA, et al. **Pathology (Phila)** 1996;4(2):253-86 (33 ref.)

Breast. Weidner N, et al. **Pathology (Phila)** 1996;3(2):417-26 (23 ref.)

Non-invasive measurements of breast tissue optical properties using frequency-domain photon migration. Tromberg BJ, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):661-8

Preservation of the inframammary fold: a plea for close follow-up [letter; comment] Cederna JP. **Plast Reconstr Surg** 1997 Jun;99(7):2114-5. Comment on: Plast Reconstr Surg 1996 Sep;98(3):447-50.

Case report of asymmetrical striae following breast augmentation [letter] Robinson C. **Plast Reconstr Surg** 1997 Jan;99(1):274-5

Capsular contracture with textured versus smooth saline-filled implants for breast augmentation: a prospective clinical study. Tarpila E, et al. **Plast Reconstr Surg** 1997 Jun;99(7):1934-9

Lessons from mammographic-histopathologic correlation of large-core needle breast biopsy. Berg WA, et al. **Radiographics** 1996 Sep;16(5):1111-30 (31 ref.)

Evaluation of 14- and 11-gauge directional, vacuum-assisted biopsy probes and 14-gauge biopsy guns in a breast parenchymal model. Berg WA, et al. **Radiology** 1997 Oct; 205(1):203-8

Stereotactic breast biopsy of atypical ductal hyperplasia and ductal carcinoma in situ lesions: improved accuracy with directional, vacuum-assisted biopsy. Burbank F. **Radiology** 1997 Mar;202(3):843-7

Stereotactic core breast biopsy of a minimal carcinoma complicated by a large hematoma: a management dilemma. Deutch BM, et al. **Radiology** 1997 Feb;202(2):431-3

Comparison of the relative incidence of impalpable invasive breast carcinoma and ductal carcinoma in situ in cancers detected in patients older and younger than 50 years of age. Evans WP 3rd, et al. **Radiology** 1997 Aug; 204(2):489-91

Morphologic criteria for interpreting abnormalities seen at breast MR imaging [editorial; comment] Frankel SD, et al. **Radiology** 1997 Mar;202(3):633-4. Comment on: Radiology 1997 Mar;202(3):833-41.

Coaxial technique: approach to breast core biopsies. Helbich TH, et al. **Radiology** 1997 Jun;203(3):684-90

Needle-localized breast biopsy: why do we fail? Jackman RJ, et al. **Radiology** 1997 Sep;204(3):677-84

Atypical ductal hyperplasia diagnosed at stereotactic breast biopsy: improved reliability with 14-gauge, directional, vacuum-assisted biopsy. Jackman RJ, et al. **Radiology** 1997 Aug;204(2):485-8

Interventional breast MR imaging: clinical use of a stereotactic localization and biopsy device. Kuhl CK, et al. **Radiology** 1997 Sep;204(3):667-75

Cost-effectiveness of stereotactic core needle biopsy: analysis by means of mammographic findings. Lee CH, et al. **Radiology** 1997 Mar;202(3):849-54

Analysis of cancers not diagnosed at stereotactic core breast biopsy. Liberman L, et al. **Radiology** 1997 Apr;203(1):151-7

Mammographic findings after stereotactic 14-gauge vacuum biopsy. Liberman L, et al. **Radiology** 1997 May; 203(2):343-7

Fine-needle biopsy specimens of benign breast lesions distinguished from invasive cancer ex vivo with proton MR spectroscopy. Mackinnon WB, et al. **Radiology** 1997 Sep;204(3):661-6

Stereotactic breast biopsy of clustered microcalcifications with a directional, vacuum-assisted device. Meyer JE, et al. **Radiology** 1997 Aug;204(2):575-6

Breast MR imaging: interpretation model [see comments] Nunes LW, et al. **Radiology** 1997 Mar;202(3):833-41. Comment in: Radiology 1997 Mar;202(3):633-4.

Compliance with recommended follow-up after fine-needle aspiration biopsy of nonpalpable breast lesions: a retrospective study. Pal S, et al. **Radiology** 1996 Oct; 201(1):71-4

Stereotactic core needle biopsy of multiple sites in the breast: efficacy and effect on patient care. Rosenblatt R, et al. **Radiology** 1996 Oct;201(1):67-70

Women with breast cancer: histologic findings in the contralateral breast. Roubidoux MA, et al. **Radiology** 1997 Jun;203(3):691-4

Peripheral washout sign on contrast-enhanced MR images of the breast. Sherif H, et al. **Radiology** 1997 Oct; 205(1):209–13

Loss of heterozygosity in normal tissue adjacent to breast carcinomas. Deng G, et al. **Science** 1996 Dec 20; 274(5295):2057–9

Stereotaxic breast biopsy. Dershaw DD. **Semin Ultrasound CT MR** 1996 Oct;17(5):444–59 (25 ref.)

High-resolution MR imaging of the breast. Orel SG. **Semin Ultrasound CT MR** 1996 Oct;17(5):476–93 (46 ref.)

Clinical, radiographic, and pathologic features of medical calcific sclerosis in the breast. Kragel PJ, et al. **South Med J** 1997 May;90(5):518–21

Initial experience with breast biopsy utilizing the advanced breast biopsy instrumentation (ABBI). Ferzli GS, et al. **Surg Endosc** 1997 Apr;11(4):393–6

Frozen-section-guided breast-conserving surgery: implications of diagnosis by frozen section as a guide to determining the extent of resection. Ikeda T, et al. **Surg Today** 1997;27(3):207–12

Ultrasound tissue characterization of breast biopsy specimens: expanded study. Mortensen CL, et al. **Ultrason Imaging** 1996 Jul;18(3):215–30

Magnetic resonance imaging of the breast. Rosenberg R, et al. **West J Med** 1996 Jul-Aug;165(1–2):58–9

[Stereotaxic mammary microbiopsy. I. Technical aspects] Thiesse P, et al. **Ann Chir** 1996;50(6):457–62 (32 ref.) (Eng. Abstr.) **(Fre)**

[Stereotaxic mammary core biopsy. II. Complementarity or competition with surgical biopsy] Thiesse P, et al. **Ann Chir** 1996;50(6):463–9 (51 ref.) (Eng. Abstr.) **(Fre)**

[Contrast media in MR mammography] Tontsch P, et al. **Aktuelle Radiol** 1997 Mar;7(2):86–92 (Eng. Abstr.) **(Ger)**

[Fibrocystic mastopathy and epithelial proliferation in female breasts histological sections] Möbius G, et al. **Frankf Z Pathol** 1966;75(4):297–305 **(Ger)**

[A new needle system for the MR-guided localization and transcutaneous biopsy of suspicious breast lesions. In vitro studies with 1.0 tesla] Heinig A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):342–5 (Eng. Abstr.) **(Ger)**

[MR mammography--a critical stocktaking (editorial)] Kaiser WA. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):425–7 **(Ger)**

[Gigantomastia in pregnancy] Dubecz S, et al. **Orv Hetil** 1996 Nov 17;137(46):2577–9 (Eng. Abstr.) **(Hun)**

[Intraoperative histological study of nonpalpable lesions of the breast] Bianchi S, et al. **Chir Ital** 1995;47(4):9–14 (Eng. Abstr.) **(Ita)**

[Prognostic significance of desmoplasia in breast carcinoma. A preliminary clinical study] Mezi S, et al. **G Chir** 1997 May;18(5):263–8 (Eng. Abstr.) **(Ita)**

[Nonpalpable lesions of the breast. A new technique of ultrasound-guided excision biopsy] Di Giorgio A, et al. **Minerva Chir** 1996 Dec;51(12):1139–43 (Eng. Abstr.) **(Ita)**

[The use of high resolution MR imaging for pre-treatment evaluation of breast cancer: detection of intraductal spread] Hiramatsu H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):182–8 (Eng. Abstr.) **(Jpn)**

[US-guided core biopsy of the breast with an automated biopsy gun: comparison with an aspiration core needle device] Taki S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan;57(1):1–4 (Eng. Abstr.) **(Jpn)**

[Helical CT of the breast: detection of intraductal spread and multicentricity of breast cancer] Uematsu T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb;57(3):85–8 (Eng. Abstr.) **(Jpn)**

[The state of mammary glands in patients with postcastration syndrome undergoing treatment with human fetal tissue transplantation] Kulakov VI, et al. **Biull Eksp Biol Med** 1994 Apr;117(4):386–8 **(Rus)**

[Comparative analysis of agreement between cytologic diagnosis by examination of tissue imprints and pathohistologic findings in intraoperative breast biopsy] Bokun R, et al. **Vojnosanit Pregl** 1997 Jan-Feb;54(1):27–30 (Eng. Abstr.) **(Scr)**

[Massive hypertrophy of the mammary gland. Report of 6 cases] Reyna Hinojosa R, et al. **Ginecol Obstet Mex** 1997 Jul;65:277–81 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Breastfeeding: physiological, endocrine and behavioural adaptations caused by oxytocin and local neurogenic activity in the nipple and mammary gland. Uvnäs-Moberg K, et al. **Acta Paediatr** 1996 May;85(5):525–30 (43 ref.)

The breast and the menopause. Wren BG. **Baillieres Clin Obstet Gynaecol** 1996 Sep;10(3):433–47 (37 ref.)

Fas-signaling and effects on receptor tyrosine kinase signal transduction in human breast epithelial cells. Shen K, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):89–93

Type I insulin-like growth factor receptor gene expression in normal human breast tissue treated with oestrogen and progesterone. Clarke RB, et al. **Br J Cancer** 1997; 75(2):251–7

Proliferation of the breast epithelium in relation to menstrual cycle phase, hormonal use, and reproductive factors. Olsson H, et al. **Breast Cancer Res Treat** 1996;40(2):187–96

Hormonal regulation of the normal breast. von Schoultz B, et al. **Maturitas** 1996 May;23 Suppl:S23–5 (13 ref.)

Direct measurement of the optical properties of human breast skin. Treweek SP, et al. **Med Biol Eng Comput** 1996 Jul; 34(4):285–9

Dominance of wild-type p53-mediated transcriptional activation in breast epithelial cells. Davis P, et al. **Oncogene** 1996 Sep 19;13(6):1315–22

Care of the breast and support of breast-feeding. Bedinghaus JM. **Prim Care** 1997 Mar;24(1):147–60 (71 ref.)

PHYSIOPATHOLOGY

A comparison of patients with premature thelarche and idiopathic true precocious puberty in the initial stage of illness. Aritaki S, et al. **Acta Paediatr Jpn** 1997 Feb; 39(1):21–7

Prevalence and impact of cyclic mastalgia in a United States clinic-based sample. Ader DN, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):126–32

Re: Evaluations of aesthetic results in breast reconstruction: an analysis of reliability [letter; comment] Ramakristnan V, et al. **Ann Plast Surg** 1997 Jan;38(1):85–6. Comment on: Ann Plast Surg 1996 Jun;36(6):601–6; discussion 607.

Prospective evaluation of skin surface electropotentials in Japanese patients with suspicious breast lesions. Fukuda M, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1092–6

Variability of impedivity in normal and pathological breast tissue. Jossinet J. **Med Biol Eng Comput** 1996 Sep; 34(5):346–50

RADIATION EFFECTS

Cellulitis of the breast as a complication of breast-conserving surgery and irradiation. Hughes LL, et al. **Am J Clin Oncol** 1997 Aug;20(4):338–41

Mean glandular dose and the standard breast. Thiele DL, et al. **Australas Phys Eng Sci Med** 1996 Jun;19(2):94–6

Initiation of oncogenic transformation in human mammary epithelial cells by charged particles. Yang TC, et al. **Radiat Oncol Investig** 1997;5(3):134–8

Late cosmetic results of short fractionation for breast conservation. Olivotto IA, et al. **Radiother Oncol** 1996 Oct; 41(1):7–13

Effect of acetylsalicylic acid on radiation and cosmetic results after conservative surgery for early breast cancer: a randomized trial. Olivotto IA, et al. **Radiother Oncol** 1996 Oct;41(1):1–6

Measurement of the peripheral dose for the tangential breast treatment technique with Co-60 gamma radiation and high energy X-rays. Van der Giessen PH. **Radiother Oncol** 1997 Mar;42(3):257–64

[A prospective study on abandoning postoperative breast irradiation after tumorectomy in small breast carcinoma broken off] Sauer R. **Strahlenther Onkol** 1996 Oct; 172(10):581–2 **(Ger)**

[Radiation dose in critical organs due to non-coplanar irradiation of the hypophysis] Schulte RW, et al. **Strahlenther Onkol** 1996 Sep;172(9):501–6 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY see MAMMOGRAPHY

RADIONUCLIDE IMAGING

Bilateral and symmetric accumulation of Tc-99m MDP in breast prostheses. Tondeur M, et al. **Clin Nucl Med** 1997 Aug;22(8):563

Bilateral breast uptake of Tl-201 chloride in a nursing woman. Watanabe N, et al. **Clin Nucl Med** 1996 Oct; 21(10):818–9

What is the best technique for patient positioning during breast scintigraphy? [letter; comment] Aktolun C. **J Nucl Med** 1996 Dec;37(12):2098–100. Comment on: J Nucl Med 1995 Oct;36(10):1758–65.

Radionuclide-guided stereotactic prebiopsy localization of nonpalpable breast lesions with normal mammograms. Khalkhali I, et al. **J Nucl Med** 1997 Jul;38(7):1019–22

Comparison of technetium-99m-sestamibi scintimammography with contrast-enhanced MRI for diagnosis of breast lesions. Tiling R, et al. **J Nucl Med** 1997 Jan;38(1):58–62

Utility and reproducibility of semiquantitative analysis of sestamibi breast images. Dunnwald LK, et al. **J Nucl Med Technol** 1997 Jun;25(2):106–9

Tc-99m-tetrofosmin scintimammography: a prospective study in primary breast lesions. Lind P, et al. **Nuklearmedizin** 1996 Dec;35(6):225–9

Optimizing radiotherapy of the internal mammary chain in breast carcinoma by scintigraphy. Struikmans H, et al. **Radiother Oncol** 1996 Oct;41(1):15–20

SURGERY

Lipocontouring in breast reconstructive surgery. Drever JM. **Aesthetic Plast Surg** 1996 Jul-Aug;20(4):285–9

Combination of the vertical and periareolar mammaplasty. Gulyás G. **Aesthetic Plast Surg** 1996 Sep-Oct;20(5):369–75

Evolution of the vertical scar in Lejour's mastoplasty technique. Tapia A, et al. **Aesthetic Plast Surg** 1996 Sep-Oct;20(5):377–84

A sitting position without pressure points [letter] De Mey JC. **Anesth Analg** 1997 Jun;84(6):1395

Double-blind, randomized comparison of ondansetron and intraoperative propofol to prevent postoperative nausea and vomiting. Gan TJ, et al. **Anesthesiology** 1996 Nov; 85(5):1036–42

Evaluations of aesthetic results in breast reconstruction: an analysis of reliability [see comments] Lowery JC, et al. **Ann Plast Surg** 1996 Jun;36(6):601–6; discussion 607. Comment in: Ann Plast Surg 1997 Jan;38(1):85–6.

Outcome of mammary prostheses explantation: a patient perspective. Svahn JK, et al. **Ann Plast Surg** 1996 Jun; 36(6):594–600

Documentation of the surgical procedure: a tool for quality assessment for breast conservative treatment. Christiaens MR. **Anticancer Res** 1996 Nov-Dec;16(6C):3955–8

The cutaneous innervation of the female breast and nipple-areola complex: implications for surgery. Jaspars JJ, et al. **Br J Plast Surg** 1997 Jun;50(4):249–59

Cancer following breast reduction surgery in Denmark [see comments] Boice JD Jr, et al. **Cancer Causes Control** 1997 Mar;8(2):253–8. Comment in: Cancer Causes Control 1997 Mar;8(2):125–6.

Psychosocial outcomes of breast-conserving surgery versus mastectomy: a meta-analytic review. Moyer A. **Health Psychol** 1997 May;16(3):284–98

Studies show prophylactic surgeries seem to reduce cancer risk [news] Nelson NJ. **J Natl Cancer Inst** 1997 Jun 4; 89(11):762–3

Retromammary implantation of an ICD using a single lead system: an alternative approach to pectoral implantation in women. Gadhoke A, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):128–9

Pain after breast surgery: a survey of 282 women. Wallace MS, et al. **Pain** 1996 Aug;66(2–3):195–205

Breast. Weidner N, et al. **Pathology (Phila)** 1996;3(2):417–26 (23 ref.)

Reconstruction of breast asymmetry in Poland's chest-wall deformity using microvascular free flaps. Longaker MT, et al. **Plast Reconstr Surg** 1997 Feb;99(2):429–36

Ultrasonically assisted lipectomy in aesthetic breast surgery. Maillard GF, et al. **Plast Reconstr Surg** 1997 Jul; 100(1):238–41 (8 ref.)

[Breast reconstruction] Frey M. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1149–51 (Eng. Abstr.) **(Ger)**

[Immediate reconstruction after radical mastectomy using Becker's prosthesis: long-term results] Bortul M, et al. **Ann Ital Chir** 1997 Jan-Feb;68(1):49–53; discussion 53–4 (Eng. Abstr.) **(Ita)**

[Pre- and postoperative color Doppler ultrasonography of myocutaneous flaps in reconstructive surgery of the breast] Pacifici A, et al. **Minerva Chir** 1997 Mar;52(3):247–50 (Eng. Abstr.) **(Ita)**

[Surgery of the areola and the mammary ducts] Sierra García A. **An R Acad Nac Med (Madr)** 1996;113(4):839–60 **(Spa)**

ULTRASONOGRAPHY see ULTRASONOGRAPHY, MAMMARY

ULTRASTRUCTURE

Mammary epithelial hyperplasias: alterations related solely to proliferation? Burbano RR, et al. **Breast Cancer Res Treat** 1996;41(2):95–101

VIROLOGY

Transcription of human endogenous retroviral sequences related to mouse mammary tumor virus in human breast and placenta: similar pattern in most malignant and nonmalignant breast tissues. Yin H, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10;13(6):507–16

BREAST CYSTS see **FIBROCYSTIC DISEASE OF BREAST**

BREAST DISEASES

Determining the information needs of women after breast biopsy procedures. Deane KA, et al. **AORN J** 1997 Apr; 65(4):767–72, 775–6

Pregnancy-related gigantomastia. Case report. Cheung KL, et al. **Arch Gynecol Obstet** 1997;259(2):87–9

Mondor disease: an unusual consideration in a young woman with a breast mass. Cox EM, et al. **J Adolesc Health** 1997 Sep;21(3):183–5

The Breast Clinic in University Hospital--a four-month survey. Yip CH, et al. **Med J Malaysia** 1995 Sep; 50(3):268–71

[Breast tuberculosis, A case report and a review of the literature] Wong Chen FJ, et al. **Ginecol Obstet Mex** 1997 Mar;65:92–5 (Eng. Abstr.) **(Spa)**

BLOOD

Total and lipid-bound serum sialic acid in benign and malignant breast disease. Romppanen J, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1249–53

delta IK17 antigen: a possible early marker of cancer development. Perez S, et al. **Int J Biol Markers** 1996 Oct-Dec;11(4):190–7

CHEMICALLY INDUCED

The breast and the menopause. Wren BG.

Baillieres Clin Obstet Gynaecol 1996 Sep;10(3):433–47 (37 ref.)

Bilateral reduction mammoplasty in a patient treated with calcium channel blocker and cyclosporine after renal transplant: a case report. Pan Y, et al. **Transplantation** 1997 Apr 15;63(7):1032–3

[Effect of progestins on the breast--protective or proliferative?] Schindler AE. **Zentralbl Gynakol** 1997; 119(8):359–65 (51 ref.) (Eng. Abstr.) **(Ger)**

CLASSIFICATION

Computerized classification of malignant and benign microcalcifications on mammograms: texture analysis using an artificial neural network. Chan HP, et al. **Phys Med Biol** 1997 Mar;42(3):549–67

[The classification and surgical correction of postlactation involution of the breasts] Adamian AA, et al. **Vestn Khir Im I I Grek** 1996;155(4):47–9 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Breast health and associated premenstrual symptoms in women with severe cyclic mastopathy. Goodwin PJ, et al. **Am J Obstet Gynecol** 1997 May;176(5):998–1005

Breast infarction in a patient with chronic renal failure: a case report. Janigan DT, et al. **Can J Surg** 1996 Dec; 39(6):507–9

[Multiple lung nodules associated with breast nodule] de la Peña Elías C, et al. **Rev Clin Esp** 1997 Mar;197(3):203–4 **(Spa)**

DIAGNOSIS

Effect of breast-tissue characteristics on the outcome of clinical breast examination training. McDermott MM, et al. **Acad Med** 1996 May;71(5):505–7

Crystallizing galactocele. A case report. Raso DS, et al. **Acta Cytol** 1997 May–Jun;41(3):863–70

Loss of heterozygosity and microsatellite instability in breast hyperplasia. No obligate correlation of these genetic alterations with subsequent malignancy. Kasami M, et al. **Am J Pathol** 1997 Jun;150(6):1925–32

Cost effectiveness and accuracy of stereotactic breast biopsy [letter; comment] Hurley JE 2nd. **Am J Surg** 1997 May; 173(5):454. Comment on: Am J Surg 1996 May;171(5):471–3. Comment on: Am J Surg 1996 May;171(5):474–6.

Clinical breast evaluation skills of house officers and students. Chalabian J, et al. **Am Surg** 1996 Oct;62(10):840–5

Immediate cytodiagnosis and imaging in the clinical management of discrete benign breast lesions. Roche NA, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):268–71

Radial scar and tubular carcinoma of the breast. Tükel S, et al. **Australas Radiol** 1997 May;41(2):190–2

Sensitivity, specificity and predictive values of breast imaging in the detection of cancer. Duijm LE, et al. **Br J Cancer** 1997;76(3):377–81

Magnetic resonance mammography [see comments] Drew PJ, et al. **Br J Surg** 1996 Oct;83(10):1316–8 (9 ref.). Comment in: Br J Surg 1997 Mar;84(3):426.

Magnetic resonance mammography [letter; comment] Gould SW, et al. **Br J Surg** 1997 Mar;84(3):426. Comment on: Br J Surg 1996 Oct;83(10):1316–8.

Cytodiagnosis of amyloid deposition within the breast. Gupta RK, et al. **Cytopathology** 1996 Apr;7(2):136–40

Microfilarial larvae in fine needle aspiration (FNA) cytology of breast lump masquerading as encysted Trichinella spiralis. Sahu KK, et al. **Cytopathology** 1997 Apr;8(2):127–9

Breast care consultation center: role of the pathologist in a multidisciplinary center. Kanbour-Shakir A, et al. **Diagn Cytopathol** 1997 Sep;17(3):191–6

The value of MRI in silicone granuloma of the breast. Helbich TH, et al. **Eur J Radiol** 1997 Feb;24(2):155–8

Subpleural haematoma presenting as a 'pseudotumour' following fine-needle aspiration biopsy of the breast. Chadwick DR, et al. **Eur J Surg Oncol** 1996 Dec; 22(6):638–9

Evaluation of general practitioner referrals to a specialist breast clinic according to the UK national guidelines. Cochrane RA, et al. **Eur J Surg Oncol** 1997 Jun; 23(3):198–201

Physician says it's a 'sin' to forego breast exams before mammography [letter] Gerrits JF. **Geriatrics** 1996 Sep; 51(9):10

CYFRA 21.1 cytosolic levels in breast diseases. Correlation with other clinical and biological parameters [letter] Ruibal A, et al. **Int J Biol Markers** 1996 Apr–Jun;11(2):90–2

Specimen mammography-guided fine-needle aspirates of clinically occult benign and malignant lesions. Analysis of cell number and type. Stomper PC, et al. **Invest Radiol** 1997 May;32(5):277–81

Stereotactic breast biopsy: a surgical series. Stolier AJ. **J Am Coll Surg** 1997 Sep;185(3):224–8

Boeck sarcoidosis of the breast: mammographic, ultrasound, and MR findings. Kenzel PP, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):439–41

Spectrum of benign breast disorders in a university hospital. Khanna AK, et al. **J Indian Med Assoc** 1997 Jan;95(1):5–8

The clinical challenge of nipple discharge. Taber SW. **J Ky Med Assoc** 1996 Sep;94(9):387–92

Stereotactic core needle breast biopsy is an accurate diagnostic technique to assess nonpalpable mammographic abnormalities. Fuhrman G, et al. **J La State Med Soc** 1996 Apr;148(4):167–70

Application of a quantitative model to differentiate benign from malignant breast lesions detected by dynamic, gadolinium-enhanced MRI. Kelcz F, et al. **J Magn Reson Imaging** 1996 Sep–Oct;6(5):743–52

Dynamic 3D-MR mammography: is there a benefit of sophisticated evaluation of enhancement curves for clinical routine? Müller-Schimpfle M, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):236–40

Mammary hamartoma: is clinical diagnosis possible? Yeu YM, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):279–80

Using simulation to improve the operational efficiency of a multi-disciplinary clinic. Kalton AG, et al. **J Soc Health Syst** 1997;5(3):43–62

The role of immunocytochemical markers in the differential diagnosis of proliferative and neoplastic lesions of the breast. Joshi MG, et al. **Mod Pathol** 1996 Jan;9(1):57–62

Pitfalls in cytology of the breast. Bottles K. **Monogr Pathol** 1997;(39):134–46 (35 ref.)

In vitro receptor imaging for characterization of human solid tumors. Del Vecchio S, et al. **Nucl Med Biol** 1994 Jul; 21(5):771–4

A comprehensive approach to evaluating nipple discharge. Arnold GJ, et al. **Nurse Pract** 1997 Jul;22(7):96–102, 105–11 (16 ref.)

Fine-needle aspiration of the breast. Sanchez MA, et al. **Pathology (Phila)** 1996;4(2):253–86 (33 ref.)

One-stop breast clinics. Young A. **Practitioner** 1996 Sep; 240(1566):514–21

Image interpretation session: 1996. Complex sclerosing lesion (radial scar) of the right breast masquerading as an occult breast carcinoma. **Radiographics** 1997 Jan–Feb;17(1):248–50

Stereotactic breast biopsy of atypical ductal hyperplasia and ductal carcinoma in situ lesions: improved accuracy with directional, vacuum-assisted biopsy. Burbank F. **Radiology** 1997 Mar;202(3):843–7

Epidermal inclusion cysts of the breast: three lesions with calcifications. Denison CM, et al. **Radiology** 1997 Aug; 204(2):493–6

Breast intraductal masses: US-guided fine-needle aspiration after galactography. Sardanelli F, et al. **Radiology** 1997 Jul; 204(1):143–8

The role of mammography in clinical practice--a review. Du Toit RS, et al. **S Afr J Surg** 1996 Nov;34(4):165–8 (50 ref.)

Study on ultrasonically guided fine-needle aspiration cytology for breast disorders with high-resolution transducer. Kubota M. **Tokai J Exp Clin Med** 1996 Feb; 21(1):7–12

Unusual breast lumps. Bartoli C, et al. **Tumori** 1997 Mar–Apr; 83(2):611–2

[MR mammography of fatty tissue necrosis] Kurtz B, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):359–63 (Eng. Abstr.) **(Ger)**

[Onset of borreliosis] Sauter C. **Schweiz Med Wochenschr** 1997 Jul 8;127(27–28):1211 **(Ger)**

[Clinical manifestations in benign breast diseases. The surgeon's role in the evaluation of signs and diagnostic work-up] Musella M, et al. **Ann Ital Chir** 1997 Mar–Apr; 68(2):167–71 (Eng. Abstr.) **(Ita)**

[Contribution to the knowledge of pseudoneoplastic pathology of the breast. Cyto-steatonecrosis] Rasà G, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):637–44; discussion 645 (Eng. Abstr.) **(Ita)**

[Diagnostic framework of nonpalpable lesions of the breast] Ciatto S, et al. **Chir Ital** 1995;47(4):5–8 (Eng. Abstr.) **(Ita)**

[Biopsy with large diameter needle in breast lesions] Bergami G, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):53–5 (Eng. Abstr.) **(Ita)**

[The place of galactography in the diagnosis of secreting mamma] Kabula S, et al. **Wiad Lek** 1994 Nov–Dec; 47(21–24):844–9 (Eng. Abstr.) **(Pol)**

[Comparative analysis of agreement between cytologic diagnosis by examination of tissue imprints and pathohistologic findings in intraoperative breast biopsy] Bokun R, et al. **Vojnosanit Pregl** 1997 Jan–Feb;54(1):27–30 (Eng. Abstr.) **(Scr)**

DRUG THERAPY

Alopecia and breast disease. Gateley CA, et al. **BMJ** 1997 Feb 15;314(7079):481

Conservative management of infective mastitis and breast abscesses after ultrasonographic assessment. O'Hara RJ, et al. **Br J Surg** 1996 Oct;83(10):1413–4

Influence of parenteral progesterones on the prevalence and severity of mastalgia in premenopausal women: a multi-institutional cross-sectional study. Euhus DM, et al. **J Am Coll Surg** 1997 Jun;184(6):596–604

Carotenoids in cancer, mastalgia, and AIDS: prevention and treatment—an overview. Santamaria L, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):89–95 (46 ref.)

Spectrum of benign breast disorders in a university hospital. Khanna AK, et al. **J Indian Med Assoc** 1997 Jan;95(1):5–8

ECONOMICS

Surveillance mammography and stereotactic core breast biopsy for probably benign lesions: a cost comparison analysis. Brenner RJ, et al. **Acad Radiol** 1997 Jun; 4(6):419–25

EPIDEMIOLOGY

Incidence of benign and malignant breast disorders in women taking hormones (contraceptive pill or hormonal replacement therapy). Tzingounis V, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3997–4000

Extratumoral breast tissue in breast cancer patients: a multinational study of variations with age and country of residence in low- and high-risk countries. WHO Collaborative Study of Neoplasia and Steroid Contraceptives. Aaman TB, et al. **Int J Cancer** 1997 May 2;71(3):333–9

Breast arterial calcifications: association with diabetes mellitus and cardiovascular mortality. Work in progress. Kemmeren JM, et al. **Radiology** 1996 Oct;201(1):75–8

ETIOLOGY

Ruptured or intact: what can linear echoes within silicone breast implants tell us? Palmon LU, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1595–8

Cellulitis of the breast as a complication of breast-conserving surgery and irradiation. Hughes LL, et al. **Am J Clin Oncol** 1997 Aug;20(4):338–41

Vasospasm of the nipple--a manifestation of Raynaud's phenomenon: case reports [see comments] Lawlor-Smith L, et al. **BMJ** 1997 Mar 1;314(7081):644–5. Comment in: BMJ 1997 May 31;314(7094):1625.

Dilated duct pattern at mammography. Huynh PT, et al. **Radiology** 1997 Jul;204(1):137–41

[Endocrino-gynecologic problems of the female adolescent] Sirpresi S, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5 Suppl):1–7 (6 ref.) (Eng. Abstr.) **(Ita)**

GENETICS

Loss of heterozygosity and microsatellite instability in breast hyperplasia. No obligate correlation of these genetic alterations with subsequent malignancy. Kasami M, et al. **Am J Pathol** 1997 Jun;150(6):1925–32

The FHIT and PTPRG genes are deleted in benign proliferative breast disease associated with familial breast cancer and cytogenetic rearrangements of chromosome band 3p14. Panagopoulos I, et al. **Cancer Res** 1996 Nov 1;56(21):4871–5

DNA fingerprinting of benign and malignant breast lesions. Sibbering M, et al. **Eur J Surg Oncol** 1996 Dec;22(6):574–7

Hamartoma of the breast with involvement of 6p21 and rearrangement of HMGIY. Dal Cin P, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):90–2

Biallelic expression of the IGF2 gene in human breast disease. McCann AH, et al. **Hum Mol Genet** 1996 Aug;5(8):1123–7

METABOLISM

Expression of the G2-M checkpoint regulators cyclin B1 and cdc2 in nonmalignant and malignant human breast lesions: immunocytochemical and quantitative image analyses. Kawamoto H, et al. **Am J Pathol** 1997 Jan; 150(1):15–23

Prostate specific antigen in breast cancer, benign breast disease and normal breast tissue. Yu H, et al. **Breast Cancer Res Treat** 1996;40(2):171–8

MICROBIOLOGY

First report of a strain of Brucella melitensis that was widely sensitive to brucellaphages isolated in the United Arab Emirates. Worsley B, et al. **Clin Infect Dis** 1996 Jan; 22(1):190–1

Candida albicans: is it associated with nipple pain in lactating women? Amir LH, et al. **Gynecol Obstet Invest** 1996; 41(1):30–4

Tuberculosis of the breast: unusual clinical presentation of extrapulmonary tuberculosis [letter] Sopeña B, et al. **Infection** 1996 Jan–Feb;24(1):57–8

Breast abscess caused by Brucella melitensis. Al Abdely HM, et al. **J Infect** 1996 Nov;33(3):219–20

Breast abscesses in Nigeria: lactational versus non-lactational [letter; comment] Cotton MH. **J R Coll Surg Edinb** 1997 Feb;42(1):61. Comment on: J R Coll Surg Edinb 1995 Feb;40(1):25–7.

Microbial evaluation: 139 implants removed from symptomatic patients. Ahn CY, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1225–9

Aspergillus flavus cultured from a saline-filled implant [letter] Rosenblatt WB, et al. **Plast Reconstr Surg** 1997 Apr; 99(5):1470–2

PARASITOLOGY

Hydatid cyst of the breast: MR imaging findings [letter] Tükel S, et al. **AJR Am J Roentgenol** 1997 May; 168(5):1386–7

Finding parts of a gravid female Wuchereria bancrofti in a breast aspirate. Kumarasinghe MP, et al. **Ceylon Med J** 1997 Mar;42(1):38–9

Filarial infection of the breast--fine needle aspiration cytology diagnosis. Sirpal YM. **J Assoc Physicians India** 1996 Mar;44(3):209

Unusual breast lumps. Bartoli C, et al. **Tumori** 1997 Mar–Apr; 83(2):611–2

PATHOLOGY

Patient perceptions of stereotaxic large-core breast biopsy.

Handy RB, et al. **Acad Radiol** 1996 Dec;3(12):1007–11
Cytology of granulomatous mastitis. Kumarasinghe MP. **Acta Cytol** 1997 May–Jun;41(3):727–30
Criteria for reporting fine needle aspiration on palpable and nonpalpable masses of the breast [editorial] Logrono R, et al. **Acta Cytol** 1997 May–Jun;41(3):623–7
Fine needle aspiration cytology of palpable breast lesions. Histologic subtype in false negative cases. Park IA, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1131–8
Intraductal placement of a Kopans spring–hookwire guide to localize nonpalpable breast lesions detected by galactography. Vega Bolívar A, et al. **Acta Radiol** 1997 Mar;38(2):240–2
Mammographic changes after excisional breast biopsy for benign disease. Brenner RJ, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1047–52
The hybrid epidermoid and apocrine cyst. A combination of apocrine hidrocystoma and epidermal inclusion cyst. Andersen WK, et al. **Am J Dermatopathol** 1996 Aug; 18(4):364–6
Expression of the G2–M checkpoint regulators cyclin B1 and cdc2 in nonmalignant and malignant human breast lesions: immunocytochemical and quantitative image analyses. Kawamoto H, et al. **Am J Pathol** 1997 Jan; 150(1):15–23
Open versus stereotactic breast biopsy. Frazee RC, et al. **Am J Surg** 1996 Nov;172(5):491–3; discussion 494–5
Breast frozen sections [letter; comment] Fechner RE. **Am J Surg Pathol** 1996 Oct;20(10):1296. Comment on: Am J Surg Pathol 1995 Nov;19(11):1267–71.
Frozen section for mammographically directed breast biopsies [letter; comment] Frankel KA. **Am J Surg Pathol** 1996 Dec;20(12):1531–2. Comment on: Am J Surg Pathol 1995 Nov;19(11):1267–71.
Frozen section for mammographically directed breast biopsies [letter] Hoda SA. **Am J Surg Pathol** 1996 Dec; 20(12):1532
Breast frozen sections [letter; comment] Zardawi IM. **Am J Surg Pathol** 1996 Oct;20(10):1296–7. Comment on: Am J Surg Pathol 1995 Nov;19(11):1267–71.
Stereotaxic localization and core needle biopsy of nonpalpable breast lesions: two–year follow–up of a prospective study. Head JF, et al. **Am Surg** 1996 Dec; 62(12):1018–23
Role of thallium–201 chloride and Tc–99m methoxy–isobutyl–isonitrite (sestaMIBI) in evaluation of breast masses: correlation with the immunohistochemical characteristic parameters (Ki–67, PCNA, Bcl, and angiogenesis) in malignant lesions. Omar WS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1639–44
Epithelioid cells in myoid hamartoma of the breast [letter; comment] Rosser RJ. **Arch Pathol Lab Med** 1997 Apr; 121(4):354–5. Comment on: Arch Pathol Lab Med 1996 Jul;120(7):676–80.
Bilateral plasma cell granuloma (inflammatory pseudotumour) of the breast. Yip CH, et al. **Aust N Z J Surg** 1997 May;67(5):300–2
Darier's disease presenting as isolated hyperkeratosis of the breasts [letter] Fitzgerald DA, et al. **Br J Dermatol** 1997 Feb;136(2):290
Becker's naevus with ipsilateral areolar hypoplasia in three males [letter] Sharma R, et al. **Br J Dermatol** 1997 Mar; 136(3):471–2
Pathological findings in breast reduction surgery. Titley OG, et al. **Br J Plast Surg** 1996 Oct;49(7):447–51
Image–guided core biopsy in patients with breast disease. Chare MJ, et al. **Br J Surg** 1996 Oct;83(10):1415–6
Randomized comparison of sitting and prone positions for stereotactic fine–needle aspiration breast biopsy. Helbich TH, et al. **Br J Surg** 1996 Sep;83(9):1252–5
Invasive ductal carcinoma, fibroadenoma and adjacent breast stroma angiogenesis: an immunohistochemical and morphometrical study. Da Silva ID, et al. **Bull Assoc Anat (Nancy)** 1996 Sep;80(250):17–9
Can nonproliferative breast disease and proliferative breast disease without atypia be distinguished by fine–needle aspiration cytology? Frost AR, et al. **Cancer** 1997 Feb 25; 81(1):22–8
What constitutes an adequate smear in fine–needle aspiration cytology of the breast? [see comments] Layfield LJ, et al. **Cancer** 1997 Feb 25;81(1):16–21. Comment in: Cancer 1997 Feb 25;81(1):1–2. Comment in: Cancer 1997 Feb 25;81(1):3–5.
Dermatologic diseases of the breast in young women. Ward KA, et al. **Clin Dermatol** 1997 Jan–Feb;15(1):45–52 (101 ref.)
Image analysis of low magnification images of fine needle aspirates of the breast produces useful discrimination between benign and malignant cases. Cross SS, et al. **Cytopathology** 1997 Aug;8(4):265–73
Cytodiagnosis of amyloid deposition within the breast. Gupta RK, et al. **Cytopathology** 1996 Apr;7(2):136–40
Fine–needle biopsy of pediatric lesions: a three–year study in an outpatient biopsy clinic. Eisenhut CC, et al. **Diagn Cytopathol** 1996 Feb;14(1):43–50
Is there a role for fine–needle aspiration in radial scar/complex sclerosing lesions of the breast? Greenberg ML, et al. **Diagn Cytopathol** 1997 Jun;16(6):537–42
Fine–needle aspiration cytodiagnosis of Liesegang rings in women presenting with a mammographic opacity. Gupta RK, et al. **Diagn Cytopathol** 1997 Sep;17(3):213–5
Adequacy and aspirates from the breast: a philosophical approach. Kline TS. **Diagn Cytopathol** 1995 Dec; 13(5):470–2 (18 ref.)
Utility of fine–needle aspiration in the diagnosis of granulomatous lesions of the breast. Martínez–Parra D, et al. **Diagn Cytopathol** 1997 Aug;17(2):108–14
What constitutes adequate sampling of palpable breast lesions that appear benign by clinical and mammographic criteria? Stanley MW, et al. **Diagn Cytopathol** 1995 Dec;13(5):473–82
Radial scars: a review of 30 cases. Patel A, et al. **Eur J Surg Oncol** 1997 Jun;23(3):202–5
Lymphocytic mastitis and fibrosis of the breast in long–standing insulin–dependent diabetics. A histopathologic study on diabetic mastopathy and report of ten cases. Hunfeld KP, et al. **Gen Diagn Pathol** 1997 Jul;143(1):49–58 (39 ref.)
Rosai–Dorfman disease in the breast. Hammond LA, et al. **Histopathology** 1996 Dec;29(6):582–4
Prognostic value of argyrophylic nucleolar organiser regions (AgNORs) in breast lesions. Simha M, et al. **Indian J Cancer** 1996 Jun;33(2):76–85
Quantitative analysis of tryptase and chymase containing mast cells in benign and malignant breast lesions. Kankkunen JP, et al. **Int J Cancer** 1997 Jul 29;72(3):385–8
Detection of perforin and tumour necrosis factor alpha mRNA expressing cells in sclerosing lymphocytic lobulitis of the breast. Hunger RE, et al. **J Clin Pathol** 1997 Apr; 50(4):310–3
Bilateral breast masses and bloody nipple discharge in a two year–old boy. Böber E, et al. **J Pediatr Endocrinol Metab** 1996 May–Jun;9(3):419–21
The role of immunocytochemical markers in the differential diagnosis of proliferative and neoplastic lesions of the breast. Joshi MG, et al. **Mod Pathol** 1996 Jan;9(1):57–62
Primary amyloid tumor of the breast: a case report and review of the literature. Luo JH, et al. **Mod Pathol** 1997 Jul;10(7):735–8 (18 ref.)
Correspondence re: Thomas PA, Cangiarella J Raab SS, Waisman J: Fine needle aspiration biopsy of proliferative breast disease. Mod Pathol 8:130, 1995 [letter; comment] Schultz D, et al. **Mod Pathol** 1996 Apr;9(4):459–60. Comment on: Mod Pathol 1995 Feb;8(2):130–6.
Michael C. Morgan, Michael G. Weaver, Joseph P. Crowe, and Fadi W. Abdul–Karim. Diabetic mastopathy: a clinicopathologic study in palpable and nonpalpable breast lesions. Mod Pathol 8:349, 1995 [letter] Seidman AJ, et al. **Mod Pathol** 1996 Jan;9(1):86–7
Coping with a breast biopsy: how healthcare professionals can help women and their husbands. Northouse LL, et al. **Oncol Nurs Forum** 1997 Apr;24(3):473–80
Inflammatory pseudotumor of the breast. Chetty R, et al. **Pathology** 1997 Aug;29(3):270–1
Atypical ductal hyperplasia diagnosed at stereotactic breast biopsy: improved reliability with 14–gauge, directional, vacuum–assisted biopsy. Jackman RJ, et al. **Radiology** 1997 Aug;204(2):485–8
Stereotactic breast biopsy of clustered microcalcifications with a directional, vacuum–assisted device. Meyer JE, et al. **Radiology** 1997 Aug;204(2):575–6
Initial experience with breast biopsy utilizing the advanced breast biopsy instrumentation (ABBI). Ferzli GS, et al. **Surg Endosc** 1997 Apr;11(4):393–6
Time trends of benign/malignant breast biopsy ratios a multicenter Italian study. Ciatto S, et al. **Tumori** 1996 Jul–Aug;82(4):325–8
[Risk of degeneration of an accessory breast] Bässler R. **Dtsch Med Wochenschr** 1997 Aug 15;122(33):1022 **(Ger)**
[Ultrasonography–guided percutaneous needle biopsy with large needle versus surgical biopsy in the diagnosis of breast lesions] Anania G, et al. **Ann Ital Chir** 1995 Sep–Oct; 66(5):645–50 (Eng. Abstr.) **(Ita)**
[Benign lesions of the breast] Pettinato G, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):151–66 (106 ref.) (Eng. Abstr.) **(Ita)**
[Cytopathology in the diagnosis of benign breast lesions] Tucci L, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):179–86 (34 ref.) (Eng. Abstr.) **(Ita)**
[Intraoperative histological study of nonpalpable lesions of the breast] Bianchi S, et al. **Chir Ital** 1995;47(4):9–14 (Eng. Abstr.) **(Ita)**
[Bulletin of breast disease: results of the 1990–1994 quinquennium] Criscuolo M, et al. **Pathologica** 1996 Dec; 88(6):500–5 (Eng. Abstr.) **(Ita)**
[Pneumothorax during anesthesia complicating needle aspiration of microcalcifications in the breast. Presentation of a case] Flo A, et al. **Rev Esp Anestesiol Reanim** 1997 Apr;44(4):161 **(Spa)**

PHYSIOPATHOLOGY

Variability of impedivity in normal and pathological breast tissue. Jossinet J. **Med Biol Eng Comput** 1996 Sep; 34(5):346–50

PREVENTION & CONTROL

Carotenoids in cancer, mastalgia, and AIDS: prevention and treatment—an overview. Santamaria L, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):89–95 (46 ref.)

PSYCHOLOGY

Anxiety in patients with symptomatic breast disease: effects of immediate versus delayed communication of results. Ubhi SS, et al. **Ann R Coll Surg Engl** 1996 Sep;78(5):466–9

RADIOGRAPHY

Interpretation of calcifications in screen/film, digitized, and wavelet–enhanced monitor–displayed mammograms: a receiver operating characteristic study. Kallergi M, et al. **Acad Radiol** 1996 Apr;3(4):285–93
Mammography of lymphatic filariasis [published erratum appears in AJR Am J Roentgenol 1997 Jul;169(1):319] Chow CK, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1425–6
Effects of ambient light and view box luminance on the detection of calcifications in mammography. Kimme–Smith C, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):775–8
Contribution of 99mTc–MIBI scintimammography to the diagnosis of non–palpable breast lesions in relation to mammographic probability of malignancy. Carril JM, et al. **Anticancer Res** 1997 May–Jun;17(3B):1677–81
Descriptive terms for mammographic abnormalities: observer variation in application. The Northern Region Breast Screening Radiology Audit Group. Simpson W, et al. **Clin Radiol** 1996 Oct;51(10):709–13
Effective excision of mammographic lesions through a cosmetically appropriate incision [letter; comment] Young AE. **Eur J Surg Oncol** 1997 Feb;23(1):91. Comment on: Eur J Surg Oncol 1996 Oct;22(5):478–82.
Klippel–Trenaunay syndrome: a very infrequent cause of microcalcifications in mammography. Apesteguia L, et al. **Eur Radiol** 1997;7(1):123–5
Computer analysis of mammography phantom images (CAMPI): an application to the measurement of microcalcification image quality of directly acquired digital images. Chakraborty DP. **Med Phys** 1997 Aug; 24(8):1269–77
Image compression in digital mammography: effects on computerized detection of subtle microcalcifications. Chan HP, et al. **Med Phys** 1996 Aug;23(8):1325–36
Comparison of eye position versus computer identified microcalcification clusters on mammograms. Krupinski EA, et al. **Med Phys** 1997 Jan;24(1):17–23
Quantitative classification of breast tumors in digitized mammograms [see comments] Pohlman S, et al. **Med Phys** 1996 Aug;23(8):1337–45. Comment in: Med Phys 1997 Feb;24(2):313, 315.
An audit of 267 consecutively excised mammographically detected breast lesions 1989–1993. Tomlinson J, et al. **Pathology** 1997 Feb;29(1):21–7
Computerized classification of malignant and benign microcalcifications on mammograms: texture analysis using an artificial neural network. Chan HP, et al. **Phys Med Biol** 1997 Mar;42(3):549–67
Visibility of microcalcifications in computed and screen–film mammography. Cowen AR, et al. **Phys Med Biol** 1997 Aug;42(8):1533–48
Breast imaging case of the day. Metastatic calcification in the breast from secondary hyperparathyroidism induced by chronic renal failure. Resnikoff LB, et al. **Radiographics** 1996 Nov;16(6):1512–3
Breast imaging case of the day. Radial scar with micro– and macrocalcifications in association with sclerosing adenosis. Rosiello DC, et al. **Radiographics** 1997 Jan–Feb;17(1):232–5
Mammographic findings of recurrent breast cancer after lumpectomy and radiation therapy: comparison with the primary tumor. Philpotts LE, et al. **Radiology** 1996 Dec; 201(3):767–71
[Senology, breast imaging] Witmeyer P. **J Radiol** 1997 Mar; 78(3 Suppl):42 **(Fre)**
[Digital storage phosphor mammography in a magnification technic: experimental studies for spatial resolution and for detection of microcalcifications] Funke M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):174–9 (Eng. Abstr.) **(Ger)**
[The role of imaging techniques in benign breast lesions] Facchini M. **Ann Ital Chir** 1997 Mar–Apr;68(2):173–8 (12 ref.) (Eng. Abstr.) **(Ita)**
[Mammographic and echographic findings in a case of bifocal fat necrosis of the breast] Ascenti G, et al. **Radiol Med (Torino)** 1997 May;93(5):633–4 **(Ita)**
[Test for the assessment of the diagnostic accuracy of mammography. Results of 103 tests carried out by Italian radiologists] Ciatto S, et al. **Radiol Med (Torino)** 1996 Oct; 92(4):367–71 (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Value of 99m–Tc MIBI and 99m–Tc(V) DMSA scintigraphy in evaluation of breast mass lesions. Ambrus E, et al. **Anticancer Res** 1997 May–Jun;17(3B):1599–605
Contribution of 99mTc–MIBI scintimammography to the diagnosis of non–palpable breast lesions in relation to mammographic probability of malignancy. Carril JM, et al. **Anticancer Res** 1997 May–Jun;17(3B):1677–81
99mTc MIBI scintimammography with a high resolution single tube gamma camera: preliminary study. De Vincentis G, et al. **Anticancer Res** 1997 May–Jun;17(3B):1627–30
Technetium–99m tetrofosmin scintigraphy to evaluate breast lesions. Madariaga P, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1619–21
Role of thallium–201 chloride and Tc–99m methoxy–isobutyl–isonitrite (sestaMIBI) in evaluation of breast masses: correlation with the immunohistochemical characteristic parameters (Ki–67, PCNA, Bcl, and angiogenesis) in malignant lesions. Omar WS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1639–44

BREAST DISEASES

A three center study on the diagnostic accuracy of 99mTc-MIBI scintimammography. Scopinaro F, et al. **Anticancer Res** 1997 May-Jun;17(3B):1631-4

99Tcm-tetrofosmin scintigraphy in the evaluation of palpable breast masses. Adalet I, et al. **Nucl Med Commun** 1997 Feb; 18(2):118-21

Tc-99m-tetrofosmin scintimammography: a prospective study in primary breast lesions. Lind P, et al. **Nuklearmedizin** 1996 Dec;35(6):225-9

RADIOTHERAPY

Incidence of primary malignancies other than breast cancer among women treated with radiation therapy for benign breast disease. Mattsson A, et al. **Radiat Res** 1997 Aug; 148(2):152-60

SURGERY

Should breast reduction surgery be rationed? Interventions requested for psychological reasons should be studied [letter; comment] [published erratum appears in BMJ 1997 Jan 4;314(7073):77] [see comments] Somerville M, et al. **BMJ** 1996 Dec 7;313(7070):1479. Comment on: BMJ 1996 Aug 24;313(7055):454-7. Comment in: BMJ 1997 Apr 5;314(7086):1045-6.

Should breast reduction surgery be rationed? Only a third of women studied completed both questionnaires [letter; comment] Vaidya JS, et al. **BMJ** 1996 Dec 7; 313(7070):1478-9. Comment on: BMJ 1996 Aug 24;313(7055):454-7.

So you want to train in breast surgery. Bates T. **Br J Hosp Med** 1996 Jun 5-18;55(11):694-6

Extending the role of breast-conserving surgery by immediate volume replacement [letter] Wechselberger G, et al. **Br J Surg** 1997 Aug;84(8):1172-3

Effective excision of mammographic lesions through a cosmetically appropriate incision [letter; comment] Young AE. **Eur J Surg Oncol** 1997 Feb;23(1):91. Comment on: Eur J Surg Oncol 1996 Oct;22(5):478-82.

Reduction mammaplasty: an outcome study. Schnur PL, et al. **Plast Reconstr Surg** 1997 Sep;100(4):875-83

Subareolar breast abscesses [letter; comment] Schein M. **Surgery** 1996 Nov;120(5):902-3. Comment on: Surgery 1995 Oct;118(4):775-82.

Bilateral reduction mammoplasty in a patient treated with calcium channel blocker and cyclosporine after renal transplant: a case report. Pan Y, et al. **Transplantation** 1997 Apr 15;63(7):1032-3

[Clinical manifestations in benign breast diseases. The surgeon's role in the evaluation of signs and diagnostic work-up] Musella M, et al. **Ann Ital Chir** 1997 Mar-Apr; 68(2):167-71 (Eng. Abstr.) **(Ita)**

[Benign breast diseases: the surgeon's role in its treatment] Petrella G, et al. **Ann Ital Chir** 1997 Mar-Apr;68(2):187-92 (Eng. Abstr.) **(Ita)**

[Benign lesions of the breast] Pettinato G, et al. **Ann Ital Chir** 1997 Mar-Apr;68(2):151-66 (106 ref.) (Eng. Abstr.) **(Ita)**

[Nonpalpable lesions of the breast. A new technique of ultrasound-guided excision biopsy] Di Giorgio A, et al. **Minerva Chir** 1996 Dec;51(12):1139-43 (Eng. Abstr.) **(Ita)**

[Nipple discharge: indications for surgery] Gioffrè Florio MA, et al. **Minerva Chir** 1996 Sep;51(9):697-700 (Eng. Abstr.) **(Ita)**

[The classification and surgical correction of postlactation involution of the breasts] Adamian AA, et al. **Vestn Khir Im I I Grek** 1996;155(4):47-9 (Eng. Abstr.) **(Rus)**

[Surgery of the areola and the mammary ducts] Sierra García A. **An R Acad Nac Med (Madr)** 1996;113(4):839-60 **(Spa)**

THERAPY

Premature thelarche and precocious puberty. Quigley CA, et al. **Curr Ther Endocrinol Metab** 1997;6:7-13 (21 ref.)

Benign breast disease. Sitruk-Ware R. **Curr Ther Endocrinol Metab** 1997;6:396-400 (6 ref.)

Management of microcalcifications that develop at the lumpectomy site after breast-conserving therapy. Vora SA, et al. **Radiology** 1997 Jun;203(3):667-71

ULTRASONOGRAPHY

Ruptured or intact: what can linear echoes within silicone breast implants tell us? Palmon LU, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1595-8

A simple method for relative assessment of the sound propagation velocity in breast tumors: technique and diagnostic efficacy. Pedersen JF. **AJR Am J Roentgenol** 1997 Jun;168(6):1591-4

Office-based breast ultrasonography in a small community surgical practice. Cabasares HV. **Am Surg** 1997 Aug; 63(8):716-9

Ultrasound in the detection of breast cancer associated with isolated clustered microcalcifications, mammographically identified. Ranieri E, et al. **Anticancer Res** 1997 Jul-Aug; 17(4A):2831-5

Ultrasonography of breast hamartomas. Black J, et al. **Australas Radiol** 1996 Nov;40(4):412-5

Color Doppler and duplex flow analysis for classification of breast lesions. Madjar H, et al. **Gynecol Oncol** 1997 Mar; 64(3):392-403

Non palpable breast lesions: preoperative sonographic localization. Canavese G, et al. **Int Surg** 1995 Jul-Sep; 80(3):283-6

Differentiation of breast lesions by measurements under craniocaudal and lateromedial compression using a new sonographic method. Richter K, et al. **Invest Radiol** 1996 Jul;31(7):401-14

Role of high frequency ultrasonography in the evaluation of palpable breast masses in Chinese women: alternative to mammography? Yang WT, et al. **J Ultrasound Med** 1996 Sep;15(9):637-44

Breast imaging case of the day. Lobular hyperplasia of pregnancy. Tobin CE, et al. **Radiographics** 1996 Sep; 16(5):1225-6

Study on ultrasonically guided fine-needle aspiration cytology for breast disorders with high-resolution transducer. Kubota M. **Tokai J Exp Clin Med** 1996 Feb; 21(1):7-12

[Can the high-resolution 13-MHz ultrasonography facilitate the preoperative localization and marking of microcalcification clusters?] Kenzel PP, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):551-6 (Eng. Abstr.) **(Ger)**

[The role of imaging techniques in benign breast lesions] Facchini M. **Ann Ital Chir** 1997 Mar-Apr;68(2):173-8 (12 ref.) (Eng. Abstr.) **(Ita)**

[Nonpalpable lesions of the breast. A new technique of ultrasound-guided excision biopsy] Di Giorgio A, et al. **Minerva Chir** 1996 Dec;51(12):1139-43 (Eng. Abstr.) **(Ita)**

[Mammographic and echographic findings in a case of bifocal fat necrosis of the breast] Ascenti G, et al. **Radiol Med (Torino)** 1997 May;93(5):633-4 **(Ita)**

BREAST DYSPLASIA see **FIBROCYSTIC DISEASE OF BREAST**

BREAST FEEDING

see related

BOTTLE FEEDING

Early breastfeeding linked to higher intelligence quotient scores [letter] Agostoni C. **Acta Paediatr** 1996 May; 85(5):639

Influences on breastfeeding in southeast England. Clements MS, et al. **Acta Paediatr** 1997 Jan;86(1):51-6

Selenium status of preterm infants: the effect of postnatal age and method of feeding. Daniels L, et al. **Acta Paediatr** 1997 Mar;86(3):281-8

Is beta-glucuronidase a contributory factor in early indirect hyperbilirubinaemia? [letter; comment] Erdem G, et al. **Acta Paediatr** 1997 Jan;86(1):120. Comment on: Acta Paediatr 1995 Mar;84(3):237-9.

Breastfeeding, smoking and the presence of the child's father in the household. Eriksen W. **Acta Paediatr** 1996 Nov; 85(11):1272-7

Decreased thymus size in formula-fed infants compared with breastfed infants. Hasselbalch H, et al. **Acta Paediatr** 1996 Sep;85(9):1029-32

The influence of feeding regimens on endogenous digoxin-like immunoreactive substance concentrations in infants. Kurugöl Z, et al. **Acta Paediatr** 1996 Jun; 85(6):753-4

Breastfeeding and catch-up growth in infants born small for gestational age. Lucas A, et al. **Acta Paediatr** 1997 Jun; 86(6):564-9

Occurrence of diarrhoeal diseases in relation to infant feeding practices in a rural community in West Bengal, India. Mondal SK, et al. **Acta Paediatr** 1996 Oct;85(10):1159-62

Is breastfeeding beneficial and maternal smoking harmful to the cognitive development of children? Niemelä A, et al. **Acta Paediatr** 1996 Oct;85(10):1202-6

Effects of routinely given pethidine during labour on infants' developing breastfeeding behaviour. Effects of dose-delivery time interval and various concentrations of pethidine/norpethidine in cord plasma. Nissen E, et al. **Acta Paediatr** 1997 Feb;86(2):201-8

Factors associated with the duration of breastfeeding: analysis of the primary and secondary responders to a self-completed questionnaire. Pande H, et al. **Acta Paediatr** 1997 Feb;86(2):173-7

Early breastfeeding is linked to higher intelligence quotient scores in dietary treated phenylketonuric children [published erratum appears in Acta Paediatr 1996 May;85(5):639] Riva E, et al. **Acta Paediatr** 1996 Jan; 85(1):56-8

Urea production in normal breast-fed infants measured with primed/intermittent oral doses of [15N, 15N]urea. Steinbrecher HA, et al. **Acta Paediatr** 1996 Jun; 85(6):656-62 (30 ref.)

Selenium supply and glutathione peroxidase activity in breastfed Polish infants. Trafikowska U, et al. **Acta Paediatr** 1996 Oct;85(10):1143-5

Aflatoxin: is it a neglected threat for formula-fed infants? Akşit S, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):34-6

Relationship of feeding modality to clinical features in Japanese infants with idiopathic neonatal hepatitis of the non-familial form. Tazawa Y, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):328-33

Hypoglycemia in healthy, full-term, breast-fed neonates during the early days of life: preliminary observation. Yamauchi Y. **Acta Paediatr Jpn** 1997 Apr;39 Suppl 1:S44-7

Breastfeeding and vertical transmission of HIV-1. Kreiss J. **Acta Paediatr Suppl** 1997 Jun;421:113-7 (10 ref.)

Nutrition and growth during infancy. The Copenhagen Cohort Study. Michaelsen KF. **Acta Paediatr Suppl** 1997 May;420:1-36

Taurine intake of Korean breast-fed infants during lactation. Kim ES, et al. **Adv Exp Med Biol** 1996;403:571-7

Measles antibodies in the breast milk of nursing mothers. Adu FD, et al. **Afr J Med Med Sci** 1995 Dec;24(4):385-8

Infants' suckling responses to the flavor of alcohol in mothers' milk. Mennella JA. **Alcohol Clin Exp Res** 1997 Jun; 21(4):581-5

Breast feeding and other aspects of infant nutrition [letter; comment] Kazal LA Jr. **Am Fam Physician** 1997 Feb 15; 55(3):785-6. Comment on: Am Fam Physician 1996 Jul;54(1):138-44.

Family planning using the ecologic breast feeding method [letter; comment] Kippley J, et al. **Am Fam Physician** 1996 Oct;54(5):1478, 1480-1. Comment on: Am Fam Physician 1995 Nov 1;52(6):1749-56, 1759-60.

Breast feeding and other aspects of infant nutrition [letter; comment] Schnur W. **Am Fam Physician** 1997 Feb 15; 55(3):785. Comment on: Am Fam Physician 1996 Jul;54(1):138-44.

Breast feeding and other aspects of infant nutrition [letter; comment] Umhau JC. **Am Fam Physician** 1997 Feb 15; 55(3):785. Comment on: Am Fam Physician 1996 Jul;54(1):138-44.

Urinary lactose: changes postpartum and relation with breast milk production. Kalkwarf HJ, et al. **Am J Clin Nutr** 1997 Mar;65(3):744-9

Colonic fermentation capacity in vitro: development during weaning in breast-fed infants is slower for complex carbohydrates than for sugars. Parrett AM, et al. **Am J Clin Nutr** 1997 Apr;65(4):927-33

Effect of skim milk supplementation of the maternal diet on lactational amenorrhea, maternal prolactin, and lactational behavior [see comments] Tennekoon KH, et al. **Am J Clin Nutr** 1996 Sep;64(3):283-90. Comment in: Am J Clin Nutr 1996 Sep;64(3):377-8.

Environmental tobacco smoke and breastfeeding duration. Horta BL, et al. **Am J Epidemiol** 1997 Jul 15;146(2):128-33

Antidepressants and breast-feeding [letter; comment] Ito S, et al. **Am J Psychiatry** 1997 Aug;154(8):1174. Comment on: Am J Psychiatry 1996 Sep;153(9):1132-7.

Antidepressants and breast-feeding [letter; comment] Mammen O, et al. **Am J Psychiatry** 1997 Aug;154(8):1174-5. Comment on: Am J Psychiatry 1996 Sep;153(9):1132-7.

Sertraline and desmethylsertraline in human breast milk and nursing infants. Stowe ZN, et al. **Am J Psychiatry** 1997 Sep;154(9):1255-60

A call for consistency in defining breast-feeding [letter] Labbok MH, et al. **Am J Public Health** 1997 Jun; 87(6):1060-1

The effectiveness of a hospital-based program to promote exclusive breast-feeding among low-income women in Brazil. Lutter CK, et al. **Am J Public Health** 1997 Apr; 87(4):659-63

Maternal considerations in formulating HIV-related breast-feeding recommendations [editorial; comment] Zimmer P, et al. **Am J Public Health** 1997 Jun;87(6):904-6. Comment on: Am J Public Health 1997 Jun;87(6):926-31.

The milk rejection sign: a natural tumor marker. Saber A, et al. **Am Surg** 1996 Dec;62(12):998-9

Postcesarean analgesia with both epidural morphine and intravenous patient-controlled analgesia: neurobehavioral outcomes among nursing neonates. Wittels B, et al. **Anesth Analg** 1997 Sep;85(3):600-6

Dies endogeneity matter? A comparison of empirical analyses with and without control for endogeneity [see comments] Zohoori N. **Ann Epidemiol** 1997 May;7(4):258-66. Comment in: Ann Epidemiol 1997 May;7(4):249-50.

Early growth faltering of rural Mesoamerindian breast-fed infants. Hernandez-Beltran M, et al. **Ann Hum Biol** 1996 May-Jun;23(3):223-35

Non-puerperal induced lactation in a Nigerian community: case reports. Abejide OR, et al. **Ann Trop Paediatr** 1997 Jun;17(2):109-14

Positioning intervention to minimize fatigue in breastfeeding women. Milligan RA, et al. **Appl Nurs Res** 1996 May; 9(2):67-70

Randomised controlled trial assessing the effectiveness of a booklet on the duration of breast feeding. Currò V, et al. **Arch Dis Child** 1997 Jun;76(6):500-3; Discussion 503-4

In vitro fermentation of carbohydrate by breast fed and formula fed infants. Parrett AM, et al. **Arch Dis Child** 1997 Mar;76(3):249-53

Faecal chymotrypsin in small for gestational age infants: effects of nucleotides and breast feeding. Cosgrove M, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 May; 76(3):F201-2

Comparison of skin-to-skin contact with standard contact in low-birth-weight infants who are breast-fed. Bier JA, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1265-9

Hospital infant formula discharge packages. Do they affect the duration of breast-feeding? Dungy CI, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):724-9

The influence of medroxyprogesterone on the duration of breast-feeding in mothers in an urban community. Hannon PR, et al. **Arch Pediatr Adolesc Med** 1997 May;151(5):490-6

Physical examination of breast-fed infants. Yurdakök K, et

al. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):429-30

Effective breastfeeding support in a general practice. Lawlor-Smith C, et al. **Aust Fam Physician** 1997 May; 26(5):573-5, 578-80

Improving the breastfeeding knowledge of health professionals. McIntyre E, et al. **Aust Fam Physician** 1996 Sep;25(9 Suppl 2):S68-70

Post-partum contraception. Kennedy KI. **Baillieres Clin Obstet Gynaecol** 1996 Apr;10(1):25-41 (64 ref.)

Health targets in the NHS: lessons learned from experience with breast feeding targets in Scotland [see comments] Campbell H, et al. **BMJ** 1997 Apr 5;314(7086):1030-3. Comment in: BMJ 1997 Aug 2;315(7103):313.

Setting target rates for breast feeding would probably be a waste of resources [letter; comment] Hoddinott P. **BMJ** 1997 Aug 2;315(7103):313. Comment on: BMJ 1997 Apr 5;314(7086):1030-3.

Activists in India are promoting good health of babies through breast feeding [letter; comment] Kumta NB. **BMJ** 1997 Jan 18;314(7075):221. Comment on: BMJ 1996 Nov 30;313(7069):1398-9.

Value of milk tokens for breast feeding mothers should be increased [letter] McInnes RJ, et al. **BMJ** 1996 Dec 7; 313(7070):1484-5

Successful breast feeding while mother was taking cyclosporin. Thiru Y, et al. **BMJ** 1997 Aug 23; 315(7106):463

Baby milk companies accused of breaching marketing code [news] [see comments] [published erratum appears in BMJ 1997 Feb 1;314(7077):326] Wise J. **BMJ** 1997 Jan 18; 314(7075):167. Comment in: BMJ 1997 Mar 15;314(7083):830. Comment in: BMJ 1997 Mar 15;314(7083):830-1.

Extradural buprenorphine suppresses breast feeding after caesarean section. Hirose M, et al. **Br J Anaesth** 1997 Jul; 79(1):120-1

Breastfeeding history, pregnancy experience and risk of breast cancer. Enger SM, et al. **Br J Cancer** 1997; 76(1):118-23

Fluvoxamine in breast-milk and infant development [letter] Yoshida K, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):210-1

Professional advice on common breastfeeding problems: a primary care study [see comments] Aggarwal R, et al. **Br J Gen Pract** 1997 Mar;47(416):173-4. Comment in: Br J Gen Pract 1997 Jun;47(419):401.

Breastfeeding and health in the Western world [see comments] Campbell C. **Br J Gen Pract** 1996 Oct; 46(411):613-7 (66 ref.). Comment in: Br J Gen Pract 1997 Jan;47(414):54. Comment in: Br J Gen Pract 1997 Apr;47(417):254-5.

Breastfeeding problems [letter; comment] Jeffries D. **Br J Gen Pract** 1997 Jun;47(419):401. Comment on: Br J Gen Pract 1997 Mar;47(416):173-4.

Breastfeeding [letter; comment] [see comments] Muirhead P. **Br J Gen Pract** 1997 Jan;47(414):54. Comment on: Br J Gen Pract 1996 Oct;46(411):613-7. Comment in: Br J Gen Pract 1997 Apr;47(417):254-5.

Dynamics of human milk extraction: a comparative study of breast feeding and breast pumping. Zoppou C, et al. **Bull Math Biol** 1997 Sep;59(5):953-73

Using a disposable syringe to treat inverted nipples. Arsenault G. **Can Fam Physician** 1997 Sep;43:1517-8

Too much of a good thing. Maternal and infant hyperlactation syndromes. Livingstone V. **Can Fam Physician** 1996 Jan;42:89-99 (20 ref.)

Breastfeeding and weaning practices in Vancouver. Williams PL, et al. **Can J Public Health** 1996 Jul-Aug;87(4):231-6

Effect of breast-feeding on risk of breast cancer [letter; comment] [see comments] Reimer DE. **Can Med Assoc J** 1996 Oct 1;155(7):861. Comment on: Can Med Assoc J 1996 Apr 15;154(8):1253-5. Comment in: Can Med Assoc J 1996 Dec 1;155(11):1550.

The prevalence of nipple disease among breast feeding mothers of HIV seropositive infants. Kambarami RA, et al. **Cent Afr J Med** 1997 Jan;43(1):20-2

Health risk assessment for inuit newborns exposed to dioxin-like compounds through breast feeding. Ayotte P, et al. **Chemosphere** 1996 Feb;32(3):531-42

Missing effects of background dioxin exposure on development of breast-fed infants during the first half year of life. Pluim HJ, et al. **Chemosphere** 1996 Oct; 33(7):1307-15

Decrease in milk and blood dioxin levels over two years in a mother nursing twins: estimates of decreased maternal and increased infant dioxin body burden from nursing. Schecter A, et al. **Chemosphere** 1996 Feb;32(3):543-9

Ten steps for successful breast-feeding: assessment of hospital performance, its determinants and planning for improvement. Gökçay G, et al. **Child Care Health Dev** 1997 Mar;23(2):187-200

Breast feeding for cleft lip and palate patients, using the Hotz-type plate. Kogo M, et al. **Cleft Palate Craniofac J** 1997 Jul;34(4):351-3

Bilateral breast uptake of Tl-201 chloride in a nursing woman. Watanabe N, et al. **Clin Nucl Med** 1996 Oct; 21(10):818-9

Does early supplementation affect long-term breastfeeding? Hill PD, et al. **Clin Pediatr (Phila)** 1997 Jun;36(6):345-50

Special properties of human milk. Wagner CL, et al. **Clin Pediatr (Phila)** 1996 Jun;35(6):283-93 (126 ref.)

Advice for selected breast-feeding issues. Thureen PJ, et al. **Compr Ther** 1996 Dec;22(12):802-5 (11 ref.)

Pharmacodynamic effects of depot-medroxyprogesterone acetate (DMPA) administered to lactating women on their male infants. Virutamasen P, et al. **Contraception** 1996 Sep; 54(3):153-7

Physical growth, infant nutrition, breastfeeding, and general nutrition. Rider E, et al. **Curr Opin Pediatr** 1996 Jun; 8(3):293-7 (26 ref.)

IDDM and milk consumption. A case-control study in São Paulo, Brazil. Gimeno SG, et al. **Diabetes Care** 1997 Aug; 20(8):1256-60

A guide to the safety of CNS-active agents during breastfeeding. Chisholm CA, et al. **Drug Saf** 1997 Aug; 17(2):127-42 (121 ref.)

Non-puerperal lactation in nutritional rehabilitation: case report. Eregie CO. **East Afr Med J** 1997 Jan;74(1):59-60

Childhood feeding practice in north Ethiopia. Tessema T, et al. **East Afr Med J** 1997 Feb;74(2):92-5

Randomised clinical trial to determine optimum initiation time of norgestrel-progestin only contraception in Eldoret Teaching Hospital, Kenya. Were EO, et al. **East Afr Med J** 1997 Feb;74(2):103-7

Breastfeeding, menopause, and epithelial ovarian cancer. Siskind V, et al. **Epidemiology** 1997 Mar;8(2):188-91

The importance of measured intake in assessing exposure of breast-fed infants to organochlorines. Quinsey PM, et al. **Eur J Clin Nutr** 1996 Jul;50(7):438-42

Respiratory tract and diarrheal infections of breast-fed infants from birth to 6 months of age in household contexts of an Egyptian village. Rahmanifar A, et al. **Eur J Clin Nutr** 1996 Oct;50(10):655-62

Developmental dental defects associated with long breast feeding. Alaluusua S, et al. **Eur J Oral Sci** 1996 Oct-Dec; 104(5-6):493-7

Proctocolitis in exclusively breast-fed infants [see comments] Anveden-Hertzberg L, et al. **Eur J Pediatr** 1996 Jun; 155(6):464-7. Comment in: Eur J Pediatr 1997 Jul;156(7):583.

Prospective study of the atopy preventive effect of maternal avoidance of milk and eggs during pregnancy and lactation. Herrmann ME, et al. **Eur J Pediatr** 1996 Sep;155(9):770-4

Breastfeeding, maternal smoking and lower respiratory tract infections. Nafstad P, et al. **Eur Respir J** 1996 Dec; 9(12):2623-9

Frequency and degree of milk removal and the short-term control of human milk synthesis. Daly SE, et al. **Exp Physiol** 1996 Sep;81(5):861-75

Ecology of weaning among nomadic Turkana pastoralists of Kenya: maternal thinking, maternal behavior, and human adaptive strategies. Gray SJ. **Hum Biol** 1996 Jun; 68(3):437-65

Determinants of breast-feeding patterns in an urban society of India. Nath DC, et al. **Hum Biol** 1997 Aug;69(4):557-73

Lactation, nutrition, and postpartum amenorrhea in lowland Papua New Guinea. Tracer DP. **Hum Biol** 1996 Apr; 68(2):277-92

Breast-feeding practices in a tribal community of Melghat region in Maharastra State. Zodpey SP, et al. **Indian J Public Health** 1996 Oct-Dec;40(4):120-5

Not enough milk. **Indian Pediatr** 1996 Jun;33(6):493-8

HIV and breastfeeding. Balsekar MV. **Indian Pediatr** 1996 Dec;33(12):1027-8

Developing brain and breastfeeding. Banapurmath CR, et al. **Indian Pediatr** 1996 Jan;33(1):35-8 (33 ref.)

Cost of infant feeding in exclusive and partially breastfed infants. Bhatnagar S, et al. **Indian Pediatr** 1996 Aug; 33(8):655-8

Immunoglobulin profile in breastmilk during first six months of lactation. Srivastava SP, et al. **Indian Pediatr** 1996 Nov; 33(11):952-5

Baby Friendly Hospital Initiative: the Kerala experience [editorial] Thomas K. **Indian Pediatr** 1997 Feb;34(2):95-7

Overall survival from breast cancer in women pregnant or lactating at or after diagnosis. Auckland Breast Cancer Study Group. Lethaby AE, et al. **Int J Cancer** 1996 Sep 17;67(6):751-5

Discontinuity indices of exclusive breastfeeding estimated by probit analysis of current status data [letter; comment] Ferreira MU, et al. **Int J Epidemiol** 1996 Apr;25(2):459-60 . Comment on: Int J Epidemiol 1995 Oct;24(5):965-9.

Protective effect of breastfeeding on invasive Haemophilus influenzae infection: a case-control study in Swedish preschool children. Silfverdal SA, et al. **Int J Epidemiol** 1997 Apr;26(2):443-50

Prolonged breastfeeding and malnutrition [letter] Simondon KB, et al. **Int J Epidemiol** 1997 Jun;26(3):677-9

Breastfeeding beliefs of low-income primigravidae. Libbus K, et al. **Int J Nurs Stud** 1997 Apr;34(2):144-50

Bacterial attachment to oropharyngeal epithelial cells in breastfed newborns. Bjerkli IH, et al. **Int J Pediatr Otorhinolaryngol** 1996 Aug;36(3):205-13

Decline in the incidence of late diagnosed congenital dislocation of the hip. Ferris H, et al. **Ir J Med Sci** 1997 Apr-Jun;166(2):85-7

Lactational performance of adolescent mothers shows preliminary differences from that of adult women. Motil KJ, et al. **J Adolesc Health** 1997 Jun;20(6):442-9

Investigation of pharmacokinetics and of possible adverse effects in infants exposed to tricyclic antidepressants in breast-milk. Yoshida K, et al. **J Affect Disord** 1997 May; 43(3):225-37

Position of the American Dietetic Association: promotion of breast-feeding [see comments] **J Am Diet Assoc** 1997 Jun;97(6):662-6 (44 ref.). Comment in: J Am Diet Assoc 1997 Jun;97(6):591-2.

Lactation consulting: is it for you? [news; comment] Diamond L. **J Am Diet Assoc** 1997 Jun;97(6):591-2. Comment on: J Am Diet Assoc 1997 Jun;97(6):662-6.

Breast-feeding benefits cross socioeconomic lines [comment] Lyons LK. **J Am Diet Assoc** 1997 Apr;97(4):385. Comment on: J Am Diet Assoc 1997 Apr;97(4):379-85.

Economic benefit of breast-feeding infants enrolled in WIC [see comments] Montgomery DL, et al. **J Am Diet Assoc** 1997 Apr;97(4):379-85. Comment in: J Am Diet Assoc 1997 Apr;97(4):385.

A randomized, controlled evaluation of two commercially available human breast milk fortifiers in healthy preterm neonates. Sankaran K, et al. **J Am Diet Assoc** 1996 Nov; 96(11):1145-9

Urinary lactose excretion is not an index of lactation performance. Yoon JS, et al. **J Am Diet Assoc** 1996 Nov; 96(11):1179-81

Changes in bone mineral density and calcium metabolism in breastfeeding women: a one year follow-up study. Affinito P, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2314-8

Excretion of fluoxetine and its metabolite, norfluoxetine, in human breast milk. Taddio A, et al. **J Clin Pharmacol** 1996 Jan;36(1):42-7

Sertraline and norsertraline levels in three breastfed infants. Mammen OK, et al. **J Clin Psychiatry** 1997 Mar;58(3):100-3

Weight gain during the first year of life in relation to maternal smoking and breast feeding in Norway. Nafstad P, et al. **J Epidemiol Community Health** 1997 Jun;51(3):261-5

Estimating the timing of mother-to-child transmission of human immunodeficiency virus in a breast-feeding population in Kinshasa, Zaire. Bertolli J, et al. **J Infect Dis** 1996 Oct;174(4):722-6

Apoprotein E phenotype determines serum cholesterol in infants during both high-cholesterol breast feeding and low-cholesterol formula feeding. Kallio MJ, et al. **J Lipid Res** 1997 Apr;38(4):759-64

Radiation dose from breastfeeding following administration of thallium-201. Johnston RE, et al. **J Nucl Med** 1996 Dec; 37(12):2079-82

It takes two to breastfeed [letter] Eckert C. **J Nurse Midwifery** 1996 Jan-Feb;41(1):56

Defining terminology for improved breastfeeding research [letter; comment] Meier DP, et al. **J Nurse Midwifery** 1997 Jan-Feb;42(1):65-6. Comment on: J Nurse Midwifery 1996 May-Jun;41(3):193-4.

Breast-feeding status alters the effect of vitamin A treatment during acute diarrhea in children. Bhandari N, et al. **J Nutr** 1997 Jan;127(1):59-63

Breast-feeding lowers the frequency and duration of acute respiratory infection and diarrhea in infants under six months of age. López-Alarcón M, et al. **J Nutr** 1997 Mar; 127(3):436-43

Prelacteal feeds are negatively associated with breast-feeding outcomes in Honduras. Pérez-Escamilla R, et al. **J Nutr** 1996 Nov;126(11):2765-73

Breastfeeding [letter; comment] Andrianos A. **J Obstet Gynecol Neonatal Nurs** 1996 Jun;25(5):374. Comment on: J Obstet Gynecol Neonatal Nurs 1995 Sep;24(7):678-83.

Breastfeeding patterns of low-birth-weight infants after hospital discharge. Hill PD, et al. **J Obstet Gynecol Neonatal Nurs** 1997 Mar-Apr; 26(2):189-97

Does application of tea bags to sore nipples while breastfeeding provide effective relief? Lavergne NA. **J Obstet Gynecol Neonatal Nurs** 1997 Jan-Feb;26(1):53-8

Breastfeeding incidence after early discharge and factors influencing breastfeeding cessation. Quinn AO, et al. **J Obstet Gynecol Neonatal Nurs** 1997 May-Jun; 26(3):289-94

Reliability and validity testing of three breastfeeding assessment tools. Riordan JM, et al. **J Obstet Gynecol Neonatal Nurs** 1997 Mar-Apr;26(2):181-7

Breast-feeding and endometriosis [letter; comment] Thylan S. **J Paediatr Child Health** 1996 Jun;32(3):271-2. Comment on: J Paediatr Child Health 1995 Oct;31(5):375-8.

Breast-feeding in neonatal intensive care. Yip E, et al. **J Paediatr Child Health** 1996 Aug;32(4):296-8

Nipple confusion--who is confused? [letter; comment] [see comments] Fisher C, et al. **J Pediatr** 1996 Jul;129(1):174-5 . Comment on: J Pediatr 1995 Jun;126(6):S125-9. Comment in: J Pediatr 1997 Jun;130(6):1012.

Confusion re: nipple confusion [letter; comment] Menahem S. **J Pediatr** 1997 Jun;130(6):1012. Comment on: J Pediatr 1996 Jul;129(1):174-5.

Milk type during mixed feeding: contribution to serum cholesterol ester fatty acids in late infancy. Salo P, et al. **J Pediatr** 1997 Jan;130(1):110-6

Thrombocytopenic purpura and anemia in a breast-fed infant whose mother was treated with valproic acid. Stahl MM, et al. **J Pediatr** 1997 Jun;130(6):1001-3

Five-year follow-up of high-risk infants with family history of allergy who were exclusively breast-fed or fed partial whey hydrolysate, soy, and conventional cow's milk formulas [see comments] Chandra RK. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):380-8. Comment in: J Pediatr Gastroenterol Nutr 1997 Apr;24(4):442-6.

Breast-feeding and growth factors in preterm newborn infants. Díaz-Gómez NM, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):322-7

Lactose maldigestion in breast-feeding Gambian infants. Northrop-Clewes CA, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):257-63

Psychological aspects of nipple pain in lactating women. Amir LH, et al. **J Psychosom Obstet Gynaecol** 1996 Mar; 17(1):53-8

Body image, maternal fetal attachment, and breast feeding. Foster SF, et al. **J Psychosom Res** 1996 Aug;41(2):181-4

UK baby friendly initiative [letter] Radford A. **J Public Health Med** 1996 Sep;18(3):374-7

Sucking pressure and its relationship to milk transfer during breastfeeding in humans. Prieto CR, et al. **J Reprod Fertil** 1996 Sep;108(1):69-74

Silicone breast implants and breast feeding [letter; comment] Epstein WA. **J Rheumatol** 1997 May;24(5):1013-4; discussion 1014-5. Comment on: J Rheumatol 1996 Jun;23(6):1083-7.

Silicone breast implants and breast feeding [letter; comment] Hoshaw SJ, et al. **J Rheumatol** 1997 May;24(5):1014; discussion 1014-5. Comment on: J Rheumatol 1996 Jun;23(6):1083-7.

Increased urinary NO3(-) + NO2- and neopterin excretion in children breast fed by mothers with silicone breast implants: evidence for macrophage activation [see comments] Levine JJ, et al. **J Rheumatol** 1996 Jun; 23(6):1083-7. Comment in: J Rheumatol 1997 May;24(5):1013-4; discussion 1014-5. Comment in: J Rheumatol 1997 May;24(5):1014; discussion 1014-5.

Evaluation of associations between breast feeding and subsequent development of juvenile rheumatoid arthritis. Rosenberg AM. **J Rheumatol** 1996 Jun;23(6):1080-2

Breastfeeding promotion--a community consortium approach. Fleming J, et al. **J Tenn Med Assoc** 1996 Apr; 89(4):126, 128

Breastfeeding and bloody diarrhoea in young children in Ibadan, Nigeria. Adeyemo AA, et al. **J Trop Pediatr** 1997 Aug;43(4):235-6

Child growth during weaning depends on whether mother is pregnant again. Bøhler E, et al. **J Trop Pediatr** 1996 Apr;42(2):104-9

Probable transmission of acute toxoplasmosis through breast feeding [letter] Bonametti AM, et al. **J Trop Pediatr** 1997 Apr;43(2):116

Throat microflora in breastfed and formula-fed infants. Hokama T, et al. **J Trop Pediatr** 1996 Dec;42(6):324-6

Nutritional status of infants and young children in the Arabian Gulf countries [letter] Musaiger AO. **J Trop Pediatr** 1996 Apr;42(2):121-4

Relactation: an effective intervention to promote exclusive breastfeeding. Seema, et al. **J Trop Pediatr** 1997 Aug; 43(4):213-6

Preventing perinatal transmission of HIV: the effect of breast-feeding [letter; comment] Nicoll A, et al. **JAMA** 1996 Nov 20;276(19):1552-3. Comment on: JAMA 1996 Jul 10;276(2):139-45.

Effect of intervention on promotion of exclusive breast feeding. Akram DS, et al. **JPMA J Pak Med Assoc** 1997 Feb;47(2):46-8

Constraints to adoption of appropriate breast feeding practices in a squatter settlement in Karachi, Pakistan. Badruddin SH, et al. **JPMA J Pak Med Assoc** 1997 Feb; 47(2):63-8

Breast feeding practices and beliefs about weaning among mothers of infants aged 0-12 months. Kulsoom U, et al. **JPMA J Pak Med Assoc** 1997 Feb;47(2):54-60

Stress, bottlefeeding, and diabetes [letter] Huang Z, et al. **Lancet** 1997 Sep 20;350(9081):889

Breastfeeding and incidence of non-insulin-dependent diabetes mellitus in Pima Indians [see comments] Pettitt DJ, et al. **Lancet** 1997 Jul 19;350(9072):166-8. Comment in: Lancet 1997 Jul 19;350(9072):157-8.

NIDDM and breastfeeding [comment] Simmons D. **Lancet** 1997 Jul 19;350(9072):157-8. Comment on: Lancet 1997 Jul 19;350(9072):166-8.

Short-term breast-feeding may reduce the risk of vertical transmission of HTLV-I. The Tsushima ATL Study Group. Takezaki T, et al. **Leukemia** 1997 Apr;11 Suppl 3:60-2

Should nursing mothers take ibuprofen? [letter; comment] Anderson P, et al. **MCN Am J Matern Child Nurs** 1996 May-Jun;21(3):122, 161. Comment on: MCN Am J Matern Child Nurs 1996 Jan-Feb;21(1):56.

Should nursing mothers take ibuprofen? [letter; comment] Burroughs MW. **MCN Am J Matern Child Nurs** 1996 May-Jun;21(3):122. Comment on: MCN Am J Matern Child Nurs 1996 Jan-Feb;21(1):56.

Sold on breastfeeding [letter; comment] Nagle ER. **MCN Am J Matern Child Nurs** 1996 Mar-Apr;21(2):74, 105. Comment on: MCN Am J Matern Child Nurs 1995 Nov-Dec;20(6):315-21.

A value-laden issue [letter; comment] Petersen LA. **MCN Am J Matern Child Nurs** 1996 Mar-Apr;21(2):105. Comment on: MCN Am J Matern Child Nurs 1995 Nov-Dec;20(6):315-21.

The decision is none of our business [letter; comment] Pfalzer SM. **MCN Am J Matern Child Nurs** 1996 Mar-Apr;21(2):74 . Comment on: MCN Am J Matern Child Nurs 1995 Nov-Dec;20(6):315-21.

When women decide not to breastfeed [letter; comment] Walker M. **MCN Am J Matern Child Nurs** 1996 Mar-Apr; 21(2):64, 74. Comment on: MCN Am J Matern Child Nurs 1995 Nov-Dec;20(6):315-21.

Privileged knowledge and mothers' "perceptions": the case of breast-feeding and insufficient milk in Bangladesh. Zeitlyn S, et al. **Med Anthropol Q** 1997 Mar;11(1):56-68 (17 ref.)

Raynaud's phenomenon of the nipple: a preventable cause of breastfeeding failure? [letter] Lawlor-Smith LS, et al. **Med J Aust** 1997 Apr 21;166(8):448

Sertraline and breast-feeding [letter] Epperson CN, et al. **N Engl J Med** 1997 Apr 17;336(16):1189-90

Issues in the medical care of the lactating woman. Zimmerman DR. **N J Med** 1996 Feb;93(2):103-5

Can preterm twins breast feed successfully? Liang R, et al. **N Z Med J** 1997 Jun 13;110(1045):209-12

The lost art of successful breastfeeding. Davidson IS. **Nutr Health** 1997;11(4):239-48

Maternal education, breastfeeding behaviours and lactational amenorrhoea: studies among two ethnic communities in Ile Ife, Nigeria. Davies-Adetugbo AA, et al. **Nutr Health** 1996;11(2):115-26

Making the public and pediatric community aware of the importance of fatty acids in infant nutrition [letter] Oski FA. **Nutrition** 1996 May;12(5):380-1

What we eat may determine who we can be. Oski FA. **Nutrition** 1997 Mar;13(3):220-1

Drug therapy in the nursing mother. Dillon AE, et al. **Obstet Gynecol Clin North Am** 1997 Sep;24(3):675-96 (47 ref.)

Infant feeding history shows distinct differences between Swedish celiac and reference children. Fälth-Magnusson K, et al. **Pediatr Allergy Immunol** 1996 Feb;7(1):1-5

Breast-feeding and maternal drug use. Bailey B, et al. **Pediatr Clin North Am** 1997 Feb;44(1):41-54 (48 ref.)

Do exclusively breast-fed infants require extra protein? Dewey KG, et al. **Pediatr Res** 1996 Feb;39(2):303-7

Breastfeeding update. 2: Clinical lactation management. Powers NG, et al. **Pediatr Rev** 1997 May;18(5):147-61 (9 ref.)

Breastfeeding update 1: immunology, nutrition, and advocacy. Slusser W, et al. **Pediatr Rev** 1997 Apr; 18(4):111-9

Pediatrician's responsibility for infant nutrition. American Academy of Pediatrics. Committee on Practice and Ambulatory Medicine. **Pediatrics** 1997 May;99(5):749-50

Bedsharing promotes breastfeeding. McKenna JJ, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):214-9

Pacifier use and short breastfeeding duration: cause, consequence, or coincidence? Victora CG, et al. **Pediatrics** 1997 Mar;99(3):445-53

Care of the breast and support of breast-feeding. Bedinghaus JM. **Prim Care** 1997 Mar;24(1):147-60 (71 ref.)

Mother's milk. A psychoanalyst looks at breastfeeding. Friedman M. **Psychoanal Study Child** 1996;51:475-90

Breast feeding and children's intelligence. Johnson DL, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1179-85

Relationship of mothers' perceptions and behaviors to the duration of breastfeeding. Vandiver TA. **Psychol Rep** 1997 Jun;80(3 Pt 2):1375-84

Nortriptyline and its hydroxymetabolites in breastfeeding mothers and newborns. Wisner KL, et al. **Psychopharmacol Bull** 1997;33(2):249-51

The associations between feeding modes and diarrhoea among urban children in a newly developed country. al-Ali FM, et al. **Public Health** 1997 Jul;111(4):239-43

Serum hemolytic and bactericidal activity in breast and formula-fed infants. Barriga C, et al. **Rev Esp Fisiol** 1995 Dec;51(4):213-8

Breastfeeding recommended for HIV+ women [news] **S Afr Med J** 1996 Sep;86(9 Suppl):1169

Success in breast-feeding [letter; comment] de Jong P, et al. **S Afr Med J** 1997 Apr;87(4):472. Comment on: S Afr Med J 1997 Jan;87(1):23-4.

Sulpiride (Eglonyl)--use to stimulate lactation [letter; comment] Hallbauer U. **S Afr Med J** 1997 Jun;87(6):774-5 . Comment on: S Afr Med J 1996 Jul;86(7):846.

Breastfeeding business [news] Jones JS. **S Afr Med J** 1996 Jul;86(7):763-4

Making hospitals baby friendly [news] Jones JS. **S Afr Med J** 1996 Jul;86(7):764, 766

Step forward to the '10 steps to successful breast-feeding' [editorial] [see comments] Videlefsky A, et al. **S Afr Med J** 1997 Jan;87(1):23-4. Comment in: S Afr Med J 1997 Apr;87(4):472.

Breast-feeding in Iceland. Predictive factors and effects of interventive measures. Freysteinsson H, et al. **Scand J Soc Med** 1996 Mar;24(1):62-6

The struggle of weaning: factors determining breastfeeding duration in east Bhutan. Bøhler E, et al. **Soc Sci Med** 1996 Dec;43(12):1805-15

Infant feeding patterns on Mauritius Island, 1991. Grummer-Strawn LM, et al. **Soc Sci Med** 1996 Dec; 43(12):1697-702

A call for consistency in definition of breastfeeding behaviors. Labbok MH, et al. **Soc Sci Med** 1997 Jun;44(12):1931-2

Use of hospital discharge packs--1995. Position statement of the Texas Pediatric Society Committee on Fetus and Newborn. Speer ME. **Tex Med** 1996 Sep;92(9):56-7

Breast-feeding exposure of infants to cadmium, lead, and mercury: a public health viewpoint. Abadin HG, et al. **Toxicol Ind Health** 1997 Jul-Aug;13(4):495-517

Transmission of HIV-1 in breast milk. Broadhead RL. **Trop Doct** 1996 Jul;26(3):100-1 (15 ref.)

Comparison of growth, serum prealbumin, transferrin, IgG and amino acids of term infants fed breast mild or formula. Kurugöl Z, et al. **Turk J Pediatr** 1997 Apr-Jun; 39(2):195-202

Intracerebral hemorrhage: a rare late manifestation of vitamin-K deficiency in a breastfed infant. A case report. Soylu H, et al. **Turk J Pediatr** 1997 Apr-Jun;39(2):265-9

Effects of oral and intramuscular vitamin K prophylaxis on PIVKA-II assay parameters in breastfed infants in Turkey. Uluşahin N, et al. **Turk J Pediatr** 1996 Jul-Sep; 38(3):295-300

Joint United Nations programme on HIV/AIDS (UNAIDS). HIV and infant feeding: an interim statement. **Wkly Epidemiol Rec** 1996 Sep 27;71(39):289-91 **(Eng, Fre)**

Baby-friendly hospitals in Kerala [letter] Philip E, et al. **World Health Forum** 1997;18(1):68-9

Early enhancement of successful breast-feeding. Righard L. **World Health Forum** 1996;17(1):92-7

[Stomach cancer in pregnancy and breast feeding: report of 17 cases] Dai D, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):768-9 (Eng. Abstr.) **(Chi)**

[Effects of different modes for health education on mothers' knowledge of baby feeding] He M, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 Mar;30(2):71-3 (Eng. Abstr.) **(Chi)**

[Does breast feeding compromise the efficacy of sero-vaccination of infants borne to mothers who are chronic carriers of hepatitis B antigens Soulié JC, et al. **Contracept Fertil Sex** 1997 May;25(5):I-V (39 ref.) **(Fre)**

[Does breast feeding increase the risk of transmission of hepatitis B virus chronic carrier state?] Soulié JC, et al. **Gastroenterol Clin Biol** 1997;21(3):197-9 (37 ref.) **(Fre)**

[Breast feeding practice in a region of Beirut] Chacar Rabay H, et al. **J Med Liban** 1997;45(2):84-9 (Eng. Abstr.) **(Fre)**

[Bone metabolism during pregnancy and breast feeding. Osteoporosis in pregnancy (editorial)] Audran M. **Rev Med Interne** 1997 Jul;18(7):517-9 **(Fre)**

[Normal phosphorus and calcium metabolism during pregnancy and breast feeding] Koeger AC, et al. **Rev Med Interne** 1997 Jul;18(7):533-45 (30 ref.) (Eng. Abstr.) **(Fre)**

[Pathological phosphorus and calcium metabolism during pregnancy and breast feeding] Koeger AC, et al. **Rev Med Interne** 1997 Jul;18(7):546-52 (36 ref.) (Eng. Abstr.) **(Fre)**

[From infant nurse to "baby-friendly hospital"--promotion of breast feeding in the University Women's Hospital in Leipzig] Springer S, et al. **Zentralbl Gynakol** 1997;119 Suppl 1:41-6 (Eng. Abstr.) **(Ger)**

[Favorable effect of breast feeding and late introduction of cow's milk on the prevention of suspected allergic symptoms in infancy] Arató A, et al. **Orv Hetil** 1996 Sep 8;137(36):1979-82 (32 ref.) (Eng. Abstr.) **(Hun)**

[Breast feeding. The importance of correct management] Rech F, et al. **Minerva Ginecol** 1996 Nov;48(11):485-91 (Eng. Abstr.) **(Ita)**

[Breast feeding in the province of Padua from 1978 to 1993] Zanon A, et al. **Minerva Pediatr** 1997 Jan-Feb; 49(1-2):39-48 (Eng. Abstr.) **(Ita)**

[The success of maternal feeding with very low birth weight premature infants, singletons and twins: a 10-year experience] Colonna F, et al. **Pediatr Med Chir** 1997 May-Jun;19(3):159-63 (Eng. Abstr.) **(Ita)**

[Breast feeding as family planning in a global perspective] Bøhler E. **Tidsskr Nor Laegeforen** 1997 Feb 20;117(5):701-4 (46 ref.) (Eng. Abstr.) **(Nor)**

[The spreading of breast feeding: needs and recommendations] Bąkowski M, et al. **Pediatr Pol** 1996 Apr;71(4):380-2 **(Pol)**

[Barriers in breast feeding: marketing of breast feeding substitutes] Mikiel-Kostyra K. **Pediatr Pol** 1996 Aug; 71(8):731-4 (Eng. Abstr.) **(Pol)**

[Breast feeding promotion program implementation: 1992-1994] Mikiel-Kostyra K. **Pediatr Pol** 1996 Jan; 71(1):65-7 (10 ref.) **(Pol)**

[Barriers in breast feeding: artificial nipples and nipple shields] Mikiel-Kostyra K. **Pediatr Pol** 1996 Feb; 71(2):161-4 (15 ref.) (Eng. Abstr.) **(Pol)**

[Barriers in breast feeding: cesarean section] Mikiel-Kostyra K, et al. **Pediatr Pol** 1996 Jul;71(7):629-31 (Eng. Abstr.) **(Pol)**

[Relationship between breast cancer, breast sensitivity, breast feeding and brain laterality] Vieira MI, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 May-Jun; 51(3):85-9 (Eng. Abstr.) **(Por)**

[The modern concept of natural feeding] Fateeva EM, et al. **Vopr Pitan** 1996;(5):35-40 **(Rus)**

[The protection and support of the breast feeding of infants in Russia] Ladodo KS. **Vopr Pitan** 1996;(1):37-9 **(Rus)**

[An analysis of the errors and problems in the practice of feeding nursing infants in Russia] Netrebenko OK. **Vopr Pitan** 1996;(5):58-60 **(Rus)**

[Scientific basis for the optimal times for introducing solid food] Sorvacheva TN. **Vopr Pitan** 1996;(5):54-7 **(Rus)**

[Selenium status of healthy children under 1 year of age dependent on the type of feeding] Sorvacheva TN, et al. **Vopr Pitan** 1996;(4):24-7 (Eng. Abstr.) **(Rus)**

[The duration of breast feeding and work activity] Escribá

Agüir V, et al. **An Esp Pediatr** 1996 May;44(5):437–41 (Eng. Abstr.) **(Spa)**

[Inadequate breast feeding position syndrome] González Rodríguez CJ. **An Esp Pediatr** 1996 Nov;45(5):527–9 **(Spa)**

[Importance of health education in the practice of breastfeeding] Torres Díaz A, et al. **Aten Primaria** 1996 Sep 15;18(4):164–7 (Eng. Abstr.) **(Spa)**

[Breast feeding ; follow up during the puerperium] Posadas-Robledo FJ, et al. **Ginecol Obstet Mex** 1996 Sep; 64:392–8 (Eng. Abstr.) **(Spa)**

[Factors associated with the initiation of breast feeding by women in the Dominican Republic] Bautista LE. **Rev Panam Salud Publica** 1997 Mar;1(3):200–7 (Eng. Abstr.) **(Spa)**

[Mother–infant rooming-in and exclusive breast feeding] Flores-Huerta S, et al. **Salud Publica Mex** 1997 Mar–Apr; 39(2):110–6 (Eng. Abstr.) **(Spa)**

[Breast feeding is threatened by a recommendation. Society of Pediatricians, Sweden (letter)] Funkquist EL. **Lakartidningen** 1996 Nov 27;93(48):4387–8 **(Swe)**

ADVERSE EFFECTS

Infant survival, HIV infection, and feeding alternatives in less-developed countries [see comments] Kuhn L, et al. **Am J Public Health** 1997 Jun;87(6):926–31. Comment in: Am J Public Health 1997 Jun;87(6):904–6.

Breast-feeding can hide breast cancer [letter; comment] LeBourdais E. **Can Med Assoc J** 1996 Dec 1;155(11):1550 . Comment on: Can Med Assoc J 1996 Oct 1;155(7):861.

Red pepper–induced dermatitis in breast-fed infants. Cooper RL, et al. **Dermatology** 1996;193(1):61–2

Human cytomegalovirus infection of breast milk. Numazaki K. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):91–8 (44 ref.)

Is prolonged breastfeeding associated with malnutrition? Evidence from nineteen demographic and health surveys. Caulfield LE, et al. **Int J Epidemiol** 1996 Aug;25(4):693–703

Association of breastfeeding and stunting in Peruvian toddlers: an example of reverse causality. Marquis GS, et al. **Int J Epidemiol** 1997 Apr;26(2):349–56

Is malnutrition associated with prolonged breastfeeding? [letter] Mølbak K, et al. **Int J Epidemiol** 1997 Apr; 26(2):458–9

Clinical significance of methohexital, meperidine, and diazepam in breast milk. Borgatta L, et al. **J Clin Pharmacol** 1997 Mar;37(3):186–92

Breastfeeding research [letter] Panagotopulos J. **J Obstet Gynecol Neonatal Nurs** 1997 Jul–Aug;26(4):373

Risk of low vitamin B6 status in infants breast–fed exclusively beyond six months. Heiskanen K, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul;23(1):38–44

Vitamin D deficiency in pregnant and breast–feeding women and their infants. Daaboul J, et al. **J Perinatol** 1997 Jan–Feb; 17(1):10–4

Late postnatal mother–to–child transmission of HIV–1 in Abidjan, Côte d'Ivoire [see comments] Ekpini ER, et al. **Lancet** 1997 Apr 12;349(9058):1054–9. Comment in: Lancet 1997 Jul 19;350(9072);221.

Late postnatal transmission of HIV–1 and early weaning [letter; comment] Van de Perre P, et al. **Lancet** 1997 Jul 19;350(9072):221. Comment on: Lancet 1997 Apr 12;349(9058):1054–9.

Primary prevention of HTLV–1 in Japan. Hino S, et al. **Leukemia** 1997 Apr;11 Suppl 3:57–9

[An unusual case of anemia [letter] Paoletti R, et al. **Minerva Ginecol** 1995 Nov;47(11):519–20 **(Ita)**

[III. Barriers in breastfeeding: hyperbilirubinemia] Mikiel-Kostyra K. **Pediatr Pol** 1996 Mar;71(3):275–8 (19 ref.) (Eng. Abstr.) **(Pol)**

[Barriers in breast feeding: contraindications] Mikiel–Kostyra K. **Pediatr Pol** 1996 Sep;71(9):825–8 (30 ref.) (Eng. Abstr.) **(Pol)**

ETHNOLOGY

Breast feeding practices in Varanasi district (U.P.). Kaur P, et al. **Indian J Public Health** 1996 Apr–Jun;40(2):52–3

Breastfeeding among black mothers: evidence supporting the need for prenatal intervention. Timbo B, et al. **J Soc Pediatr Nurs** 1996 Apr–Jun;1(1):35–40

Sociocultural factors and the promotion of exclusive breastfeeding in rural Yoruba communities of Osun State, Nigeria. Davies-Adetugbo AA. **Soc Sci Med** 1997 Jul; 45(1):113–25

PSYCHOLOGY

Reasons for failure of breast–feeding counselling: mothers' perspectives in Bangladesh. Haider R, et al. **Bull World Health Organ** 1997;75(3):191–6

The impact of prematurity and neonatal illness on the decision to breast–feed. Jaeger MC, et al. **J Adv Nurs** 1997 Apr;25(4):729–37

Transitions in infant feeding during the first year of life [see comments] Skinner JD, et al. **J Am Coll Nutr** 1997 Jun; 16(3):209–15. Comment in: J Am Coll Nutr 1997 Jun;16(3):189.

Baby feeding: the thoughts behind the statistics. Basire K, et al. **N Z Med J** 1997 May 23;110(1044):184–7

Effects of parity and weaning practices on breastfeeding duration. Hill P, et al. **Public Health Nurs** 1997 Aug; 14(4):227–34

Breastfeeding intention and outcome: a test of the theory of planned behavior. Wambach KA. **Res Nurs Health** 1997 Feb;20(1):51–9

STATISTICS & NUMERICAL DATA

Breastfeeding pattern in a population with different levels of poverty in Southern Brazil. Giugliani E, et al. **Acta Paediatr** 1996 Dec;85(12):1499–500

Maternal employment and breast–feeding: findings from the 1988 National Maternal and Infant Health Survey. Visness CM, et al. **Am J Public Health** 1997 Jun;87(6):945–50

Infant and child feeding practices: a preliminary investigation. Wyne AH, et al. **Aust Dent J** 1997 Feb; 42(1):54–8

A study of breast feeding rates at a large Australian obstetric hospital. Nicholson W, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):393–7

Breast–feeding in Perth: recent trends. Scott JA, et al. **Aust N Z J Public Health** 1996 Apr;20(2):210–1

Breastfeeding and health in the western World [letter; comment] Hawthorne K. **Br J Gen Pract** 1997 Apr; 47(417):254–5. Comment on: Br J Gen Pract 1996 Oct;46(411):613–7. Comment on: Br J Gen Pract 1997 Jan;47(414):54.

The Nithsdale Schizophrenia Surveys. 16. Breast–feeding and schizophrenia: preliminary results and hypotheses. McCreadie RG. **Br J Psychiatry** 1997 Apr;170:334–7

Breastfeeding practices in villages of central Karnataka. Banapurmath CR, et al. **Indian Pediatr** 1996 Jun;33(6):477–9

Can we increase breast feeding rates? Loh NR, et al. **Ir Med J** 1997 Apr–May;90(3):100–1

Breastfeeding in Arkansas: trends in the northeast region and physician self assessment quiz. Albey M, et al. **J Ark Med Soc** 1996 Sep;93(4):181–4

Breastfeeding in Arkansas: the role of the Arkansas Department of Health. Webb MO, et al. **J Ark Med Soc** 1996 Sep;93(4):185–7

Investigation on breastfeeding and lactational amenorrhoeic women in mountainous areas of Pengxian County, Southwest China. Cui N, et al. **J Obstet Gynaecol** 1995 Aug;21(4):373–80

Promoting breastfeeding: a view of the current position and a proposed agenda for action in Scotland. Campbell H, et al. **J Public Health Med** 1996 Dec;18(4):406–14

Rapid epidemiologic assessment of breastfeeding practices: probit analysis of current status data. Ferreira MU, et al. **J Trop Pediatr** 1996 Feb;42(1):50–3

Assessment of nutritional beliefs and practices in pregnant and lactating mothers in an urban and rural area of Pakistan. Mahmood S, et al. **JPMA J Pak Med Assoc** 1997 Feb; 47(2):60–2

Breastfeeding in Canterbury over three decades. Ford RP, et al. **N Z Med J** 1996 Sep 13;109(1029):343–5

Reasons for and consequences of the low incidence of breast feeding in Scotland. Green KL. **Nutr Health** 1997; 11(4):249–54 (21 ref.)

Trends in the relationship between breastfeeding and postpartum employment in the United States. Lindberg L. **Soc Biol** 1996 Fall–Winter;43(3–4):191–202

[Breast–feeding during the first month of life in Cordoba city, Argentina] Batrouni L, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):16–21 (Eng. Abstr.) **(Spa)**

[The prevalence and characteristics of breast feeding in the rural environment] Gómez Sanchiz M, et al. **Aten Primaria** 1997 Apr 15;19(6):318–22 (Eng. Abstr.) **(Spa)**

[Influence of health centers and social class in the prevalence of breast feeding] Lluch Fernández C, et al. **Aten Primaria** 1996 Sep 30;18(5):253–6 (Eng. Abstr.) **(Spa)**

[Duration of breast–feeding in the Dominican Republic] Bautista LE. **Bol Oficina Sanit Panam** 1996 May; 120(5):414–24 (Eng. Abstr.) **(Spa)**

BREAST IMPLANTS

Immediate reaugmentation of the breasts using bilaterally divided TRAM flaps after removing injected silicone gel and granulomas. Aoki R, et al. **Aesthetic Plast Surg** 1997 Jul–Aug;21(4):276–9

An improved method of removing polyurethane foam–covered gel prostheses. Cohney BC, et al. **Aesthetic Plast Surg** 1997 May–Jun;21(3):191–2

Textured surface silicone breast implants: histology in the human. Lesesne CB. **Aesthetic Plast Surg** 1997 Mar–Apr; 21(2):93–6

Pain reduction in breast augmentation using methocarbamol. Schneider MS. **Aesthetic Plast Surg** 1997 Jan–Feb; 21(1):23–4

Should women with implants or a history of treatment for breast cancer be excluded from mammography screening programs? [see comments] Kopans DB, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):29–31. Comment in: AJR Am J Roentgenol 1997 Jul;169(1):315.

MR imaging of breast implants and their complications. Morgan DE, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1271–5

The role of diagnostic imaging in women with breast implants. Barloon TJ, et al. **Am Fam Physician** 1996 Nov 1;54(6):2029–36

Determination of silicon in breast and capsular tissue from patients with breast implants performed by inductively coupled plasma emission spectroscopy. Comparison with tissue histology. McConnell JP, et al. **Am J Clin Pathol** 1997 Feb;107(2):236–46

Migration of silicone through the fibrous capsules of mammary prostheses. Beekman WH, et al. **Ann Plast Surg** 1997 May;38(5):441–5

Silicon tissue assay: are there intracapsular variations? Evans GR, et al. **Ann Plast Surg** 1996 Dec;37(6):592–5

Predictors of postoperative aesthetics following explantation of the augmented breast. Fee TE, et al. **Ann Plast Surg** 1997 Mar;38(3):217–22

Connective tissue disease and other rheumatic conditions following breast implants in Denmark. Friis S, et al. **Ann Plast Surg** 1997 Jul;39(1):1–8

Poland's deformity reconstructions with a customized, extrasoft silicone prosthesis. Gatti JE. **Ann Plast Surg** 1997 Aug;39(2):122–30

An outcome analysis of 100 women after explantation of silicone gel breast implants. Peters W, et al. **Ann Plast Surg** 1997 Jul;39(1):9–19

Spontaneous autoinflation of saline mammary implants. Robinson OG Jr, et al. **Ann Plast Surg** 1997 Aug; 39(2):114–8; discussion 118–21

Outcome of mammary prostheses explantation: a patient perspective. Svahn JK, et al. **Ann Plast Surg** 1996 Jun; 36(6):594–600

A method of breast reconstruction with a deepithelialized TRAM flap via the abdominal approach for failed implant salvage in postmastectomy patients. Yager JS, et al. **Ann Plast Surg** 1997 Aug;39(2):178–81

Subpectoral breast reconstruction using the biodimensional system. Hayes AJ, et al. **Ann R Coll Surg Engl** 1997 Sep; 79(5):355–60

Morphologic characterization of polyvinyl sponge (Ivalon) breast prosthesis. Liu LW, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):876–8

Breast implants in patients with differentiated and undifferentiated connective tissue disease. Williams HJ, et al. **Arthritis Rheum** 1997 Mar;40(3):437–40

Touch sensibility in the breast after subcutaneous mastectomy and immediate reconstruction with a prosthesis. Benediktsson KP, et al. **Br J Plast Surg** 1997 Sep; 50(6):443–9

Breast reconstruction with anatomical expanders and implants: our early experience. McGeorge DD, et al. **Br J Plast Surg** 1996 Sep;49(6):352–7

Textured or smooth implants for breast augmentation? Three year follow–up of a prospective randomised controlled trial. Malata CM, et al. **Br J Plast Surg** 1997 Feb; 50(2):99–105

Patient satisfaction following insertion of silicone breast implants. Park AJ, et al. **Br J Plast Surg** 1996 Dec; 49(8):515–8

The extended role of the surgical glove [letter] Srinivasan J, et al. **Br J Plast Surg** 1997 Apr;50(3):218–9

The breast fish [letter] Titley OG. **Br J Plast Surg** 1997 Jun; 50(4):295

Silicone breast implants and renal contrast agent: iatrogenic sources of "increased" bone density. Karimeddini MK, et al. **Clin Nucl Med** 1996 Nov;21(11):889–90

Bilateral and symmetric accumulation of Tc–99m MDP in breast prostheses. Tondeur M, et al. **Clin Nucl Med** 1997 Aug;22(8):563

Use of a saline breast implant to cover the pelvic floor. Van Le L, et al. **Gynecol Oncol** 1997 Apr;65(1):188–91

Breast implants and cancer risk in Denmark. Friis S, et al. **Int J Cancer** 1997 Jun 11;71(6):956–8

Silicone granuloma in acral skin in a patient with silicone–gel breast implants and systemic sclerosis. Anderson DR, et al. **Int J Dermatol** 1996 Jan;35(1):36–8

A patient's right of access to medical records. Kirby MD. **J Contemp Health Law Policy** 1995 Fall;12(1):93–111

MR imaging of silicone breast implants: evaluation of prospective and retrospective interpretations and interobserver agreement. Quinn SF, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):213–8

Intracapsular implant rupture: MR findings of incomplete shell collapse. Soo MS, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):724–30

Breast implants and cancer. Brinton LA, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1341–9 (118 ref.)

Silicone breast implants and breast feeding [letter; comment] Epstein WA. **J Rheumatol** 1997 May;24(5):1013–4; discussion 1014–5. Comment on: J Rheumatol 1996 Jun;23(6):1083–7.

Silicone breast implants and breast feeding [letter; comment] Hoshaw SJ, et al. **J Rheumatol** 1997 May;24(5):1014; discussion 1014–5. Comment on: J Rheumatol 1996 Jun;23(6):1083–7.

More breast implant prose and cons. Contractures and confounding: the controversy continues [editorial; comment] del Junco DJ. **JAMA** 1997 May 28; 277(20):1643–4. Comment on: JAMA 1997 May 28;277(20):1612–7.

Silicone breast implants and antipolymer antibodies [letter] Miller SH. **Lancet** 1997 Sep 6;350(9079):740–1

Multinuclear solid–state NMR spectroscopy of envelopes from virgin and explanted silicone breast prostheses: an exploratory study. Picard F, et al. **Magn Reson Med** 1997 Jan;37(1):11–7

29Si NMR and blood silicon levels in silicone gel breast implant recipients [letter; comment] Taylor RB, et al.

Magn Reson Med 1996 Sep;36(3):498–501. Comment on: Magn Reson Med 1993 Jun;29(6):839–43. Comment on: Magn Reson Med 1993 Nov;30(5):534–43. Comment on: Magn Reson Med 1994 Mar;31(3):328–30.

Silicone breast implants: implications for society and surgeons [letter; comment] Hodgkinson DJ. **Med J Aust** 1997 Jun 2;166(11):615–6. Comment on: Med J Aust 1996 Sep 16;165(6):338–41.

Silicone breast implants: implications for society and surgeons [see comments] Renwick SB. **Med J Aust** 1996 Sep 16; 165(6):338–41. Comment in: Med J Aust 1997 Jun 2;166(11):615–6.

Breast implants [letter; comment] Grisolia JS. **Neurology** 1996 Nov;47(5):1353–5. Comment on: Neurology 1996 Feb;46(2):308–14.

Spectrum of histological changes reactive to prosthetic breast implants: a clinopathological study of 84 patients. Yeoh G, et al. **Pathology** 1996 Aug;28(3):232–5

Distribution of organosilicon polymers in augmentation mammaplasties at autopsy. Barnard JJ, et al. **Plast Reconstr Surg** 1997 Jul;100(1):197–203; discussion 204–5

Triglyceride–filled breast implants [letter; comment] Barnett MP. **Plast Reconstr Surg** 1997 Jun;99(7):2105–7. Comment on: Plast Reconstr Surg 1996 May;97(6):1179–93; discussion 1194–5.

What is adequate fill? Implications in breast implant surgery [letter; comment] Becker H. **Plast Reconstr Surg** 1997 Feb; 99(2):599–601. Comment on: Plast Reconstr Surg 1996 Jun;97(7):1451–4.

Bleed of and biologic response to triglyceride filler used in radiolucent breast implants [letter; comment] Brucker R, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2107–9. Comment on: Plast Reconstr Surg 1996 May;97(6):1179–93; discussion 1194–5.

Silicone breast implants and drug–induced arthralgia [letter] Cadier MA, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1464

Assessment and longevity of the silicone gel breast implant. Cohen BE, et al. **Plast Reconstr Surg** 1997 May; 99(6):1597–601

Are breast implants anticarcinogenic? A 14–year follow–up of the Los Angeles Study. Deapen DM, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1346–53

Silicone gel and hypersensitivity [letter; comment] Everson MP, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1324–5. Comment on: Plast Reconstr Surg 1995 Aug;96(2):371–80.

Saline made viscous with polyethylene glycol: a new alternate breast implant filler material. Friedman RM, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1208–13; discussion 1214–5

Deflation of saline breast implants [letter] Gargan TJ. **Plast Reconstr Surg** 1996 Oct;98(5):906

Mechanical analysis of explanted silicone breast implants [letter; comment] Greenwald DP, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2117. Comment on: Plast Reconstr Surg 1996 Aug;98(2):269–72; discussion 273–5.

Saline–filled breast implants: a Plastic Surgery Educational Foundation multicenter outcomes study. Gutowski KA, et al. **Plast Reconstr Surg** 1997 Sep;100(4):1019–27

Breast conservation therapy after augmentation mammaplasty: is it appropriate? Handel N, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1216–24

Intraductal migration of silicone [letter; comment] Holten I. **Plast Reconstr Surg** 1996 Oct;98(5):903. Comment on: Plast Reconstr Surg 1995 Dec;96(7):1746–7.

Unusual masses found within ruptured silicone gel breast prostheses. Hughes KC, et al. **Plast Reconstr Surg** 1997 Aug;100(2):525–8

Aesthetic outcome of breast implant removal in 85 consecutive patients. Netscher DT, et al. **Plast Reconstr Surg** 1997 Jul;100(1):206–19

Paecilomyces variotii contamination in the lumen of a saline–filled breast implant [letter; comment] Niazi ZB, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1323. Comment on: Plast Reconstr Surg 1995 Nov;96(6):1430–4.

Transumbilical insertion of saline–filled breast implants [letter; comment] Pandeya NK. **Plast Reconstr Surg** 1997 Apr;99(4):1198. Comment on: Plast Reconstr Surg 1993 Oct;92(5):801–8.

Breast implant rupture following contralateral mammography. Pay AD, et al. **Plast Reconstr Surg** 1997 May;99(6):1734–5

Gel bleed and gel migration [editorial] Puckett CL. **Plast Reconstr Surg** 1997 Apr;99(5):1410

Incidence and natural history of saline–filled breast implant deflations: comparison of blunt–tipped versus cutting and tapered needles. Rapaport DP, et al. **Plast Reconstr Surg** 1997 Sep;100(4):1028–32

Outcome study of the psychological changes after silicone breast implant removal. Roberts C, et al. **Plast Reconstr Surg** 1997 Sep;100(3):595–9

Case report of asymmetrical striae following breast augmentation [letter] Robinson C. **Plast Reconstr Surg** 1997 Jan;99(1):274–5

Aspergillus flavus cultured from a saline–filled implant [letter] Rosenblatt WB, et al. **Plast Reconstr Surg** 1997 Apr; 99(5):1470–2

Silicon analysis of breast and periprosthetic capsular tissue from patients with saline or silicone gel breast implants. Schnur PL, et al. **Plast Reconstr Surg** 1996 Oct; 98(5):798–803

Correction of implant ptosis after a transaxillary subpectoral breast augmentation. Troilius C. **Plast Reconstr Surg** 1996 Oct;98(5):889–95

Plugs on the filling valves of saline breast implants [letter] Umansky C. **Plast Reconstr Surg** 1996 Oct;98(5):914

Toxic shock syndrome after explantation of breast implants: a case report and review of the literature. Walker LE, et al. **Plast Reconstr Surg** 1997 Mar;99(3):875–9 (19 ref.)

Low capsular contraction rate after primary and secondary breast reconstruction with a textured expander prosthesis. Wickman M, et al. **Plast Reconstr Surg** 1997 Mar; 99(3):692–7

Silicone gel–filled breast implants in women: findings at H–1 MR spectroscopy. Pfleiderer B, et al. **Radiology** 1996 Dec; 201(3):777–83

Lessons from litigation over silicone breast implants: a call for activism by scientists. Rosenbaum JT. **Science** 1997 Jun 6;276(5318):1524–5

Quantitative ultrasonic diagnosis of silicone breast implant rupture: an in vitro feasibility study. Forsberg F, et al. **Ultrasound Med Biol** 1996;22(1):53–60

Autoimmune reactions in patients with silicone breast implants [see comments] Zazgornik J, et al. **Wien Klin Wochenschr** 1996 Dec 27;108(24):781–7. Comment in: Wien Klin Wochenschr 1996 Dec 27;108(24):773–4.

[Mammaplasty immediately after mastectomy for breast cancer] Shi S, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):253–4 (Eng. Abstr.) **(Chi)**

[Cosmetic breast surgery (see comments)] Thuesen B. **Ugeskr Laeger** 1997 Mar 17;159(12):1740–3. Comment in: Ugeskr Laeger 1997 Jul 7;159(28):4410–1. **(Dan)**

[Axillary silicon lymphadenopathy after breast augmentation] Falk S, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):55–7 (Eng. Abstr.) **(Ger)**

[Once again the silicone dilemma: only a Cleopatra syndrome? (editorial; comment)] **Wien Klin Wochenschr** 1996 Dec 27;108(24):773–4. Comment on: Wien Klin Wochenschr 1996 Dec 27;108(24):781–7. **(Ger)**

[Physiologic and pathologic patterns of reaction to silicone breast implants] Friemann J, et al. **Zentralbl Chir** 1997; 122(7):551–64 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Inflammatory reaction and capsular contracture around smooth silicone implants. Carpaneda CA. **Aesthetic Plast Surg** 1997 Mar–Apr;21(2):110–4

Breast implantation and the incidence of upper extremity somatic complaints. Kulick M, et al. **Aesthetic Plast Surg** 1997 Mar–Apr;21(2):105–9

Capsular contracture and ripple deformity of breast implants. Nicolle FV. **Aesthetic Plast Surg** 1996 Jul–Aug;20(4):311–4

Ruptured or intact: what can linear echoes within silicone breast implants tell us? Palmon LU, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1595–8

Explantation of silicone breast implants. Thomas WO 3rd, et al. **Am Surg** 1997 May;63(5):421–9

Autoimmunity after silicone breast implants [editorial; comment] Claman HN. **Ann Allergy Asthma Immunol** 1997 Aug;79(2):89–90. Comment on: Ann Allergy Asthma Immunol 1997 Aug;79(2):151–4.

Cellular immune reactivities in women with silicone breast implants: a preliminary investigation [see comments] Ellis TM, et al. **Ann Allergy Asthma Immunol** 1997 Aug; 79(2):151–4. Comment in: Ann Allergy Asthma Immunol 1997 Aug;79(2):89–90.

Epidemiology of silicone breast implants [letter; comment] Whysner J. **Ann Intern Med** 1997 Apr 15;126(8):667–8. Comment on: Ann Intern Med 1996 Apr 15;124(8):744–56.

The silicone breast implant controversy: the other courtroom [editorial; comment] [see comments] Rose NR. **Arthritis Rheum** 1996 Oct;39(10):1615–8. Comment on: Arthritis Rheum 1996 Oct;39(10):1619–26. Comment in: Arthritis Rheum 1997 Aug;40(8):1545.

The American College of Rheumatology statement on silicone breast implants represents a consensus [letter] Rosenbaum J. **Arthritis Rheum** 1996 Oct;39(10):1765

Clinical experience with systemic illness in women with silicone breast implants: comment on the editorial by Rose [letter; comment] Vasey FB. **Arthritis Rheum** 1997 Aug; 40(8):1545. Comment on: Arthritis Rheum 1996 Oct;39(10):1615–8.

Scleroderma and silicone gel breast prostheses––the Sydney study revisited [see comments] Englert H, et al. **Aust N Z J Med** 1996 Jun;26(3):349–55. Comment in: Aust N Z J Med 1996 Jun;26(3):341–2.

Silicone? Silica? Scleroderma. A need to look further? [letter; comment] Englert M, et al. **Aust N Z J Med** 1996 Dec; 26(6):858. Comment on: Aust N Z J Med 1996 Jun;26(3):341–2.

Silicone breast implants––where have we been and where are we now? [editorial; comment] [see comments] Gatenby PA. **Aust N Z J Med** 1996 Jun;26(3):341–2. Comment on: Aust N Z J Med 1996 Jun;26(3):349–55. Comment in: Aust N Z J Med 1996 Dec;26(6):858.

Notice to physicians. Ontario and Quebec breast implant study. **Can Fam Physician** 1996 Nov;42:2219–20

A review of the possible health implications of silicone breast implants. Noone RB. **Cancer** 1997 May 1;79(9):1747–56 (88 ref.)

Phenotype of lymphocytes associated with the inflammatory reaction to silicone gel breast implants. Katzin WE, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):156–61

Silicate antibodies in women with silicone breast implants: development of an assay for detection of humoral immunity. Shen GQ, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):162–6

Allergy to silicone: is it real? Finegold I. **Compr Ther** 1996 Jun;22(6):393–8 (36 ref.)

Lymphocyte response to silica among offspring of silicone breast implant recipients. Smalley DL, et al. **Immunobiology** 1996–97;196(5):567–74

The silicone controversy [letter] Reed MJ. **Immunol Today** 1996 Mar;17(3):147

Morphea after silicone gel breast implantation for cosmetic reasons in an HLA–B8, DR3–positive woman. Di Lorenzo G, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):93–5

Silicone gel and octamethylcyclotetrasiloxane (D4) enhances antibody production to bovine serum albumin in mice. Nicholson JJ 3rd, et al. **J Biomed Mater Res** 1996 Jul; 31(3):345–53

Silicone breast implants. Can emerging medical, legal, and scientific concepts be reconciled? Snyder JW. **J Leg Med** 1997 Jun;18(2):133–220 (421 ref.)

The epidemiology of scleroderma among women: assessment of risk from exposure to silicone and silica. Burns CJ, et al. **J Rheumatol** 1996 Nov;23(11):1904–11

Increased urinary NO3(–) + NO2– and neopterin excretion in children breast fed by mothers with silicone breast implants: evidence for macrophage activation [see comments] Levine JJ, et al. **J Rheumatol** 1996 Jun; 23(6):1083–7. Comment in: J Rheumatol 1997 May;24(5):1013–4; discussion 1014–5. Comment in: J Rheumatol 1997 May;24(5):1014; discussion 1014–5.

Development of polyarthritis after insertion of silicone breast implants followed by remission after implant removal in 2 HLA–identical sisters bearing rheumatoid arthritis susceptibility genes. Meier LG, et al. **J Rheumatol** 1997 Sep;24(9):1838–41

Characteristics of women with and without breast implants [letter] Stewart MW, et al. **JAMA** 1997 Sep 10; 278(10):818–9

Antipolymer antibodies, silicone breast implants, and fibromyalgia [letter; comment] Angell M. **Lancet** 1997 Apr 19;349(9059):1171–2; discussion 1172–3. Comment on: Lancet 1997 Feb 15;349(9050):449–54.

Antipolymer antibodies, silicone breast implants, and fibromyalgia [letter; comment] Edlavitch SA. **Lancet** 1997 Apr 19;349(9059):1170. Comment on: Lancet 1997 Feb 15;349(9050):449–54.

Antipolymer antibodies, silicone breast implants, and fibromyalgia [letter] Ellis TM, et al. **Lancet** 1997 Apr 19; 349(9059):1173

Antipolymer antibodies, silicone breast implants, and fibromyalgia [letter; comment] Everson MP, et al. **Lancet** 1997 Apr 19;349(9059):1171; discussion 1172–3. Comment on: Lancet 1997 Feb 15;349(9050):449–54.

Antipolymer antibodies, silicone breast implants, and fibromyalgia [letter; comment] Korn JH. **Lancet** 1997 Apr 19;349(9059):1171. Comment on: Lancet 1997 Feb 15;349(9050):449–54.

Antipolymer antibodies, silicone breast implants, and fibromyalgia [letter; comment] Lamm SH. **Lancet** 1997 Apr 19;349(9059):1170–1; discussion 1172–3. Comment on: Lancet 1997 Feb 15;349(9050):449–54.

Use of antipolymer antibody assay in recipients of silicone breast implants [see comments] [published erratum appears in Lancet 1997 May 24;349(9064):1558] Tenenbaum SA, et al. **Lancet** 1997 Feb 15;349(9050):449–54. Comment in: Lancet 1997 Apr 19;349(9059):1170. Comment in: Lancet 1997 Apr 19;349(9059):1170–1; discussion 1172–3. Comment in: Lancet 1997 Apr 19;349(9059):1171. Comment in: Lancet 1997 Apr 19;349(9059):1171; discussion 1172–3. Comment in: Lancet 1997 Apr 19;349(9059):1171–2; discussion 1172–3.

Complications leading to surgery after breast implantation [see comments] Gabriel SE, et al. **N Engl J Med** 1997 Mar 6;336(10):677–82. Comment in: N Engl J Med 1997 Mar 6;336(10):718–9.

Breast implantation––the quest for safety and quality [editorial; comment] Mathes SJ. **N Engl J Med** 1997 Mar 6;336(10):718–9. Comment on: N Engl J Med 1997 Mar 6;336(10):677–82.

Visualization of silicone gel in human breast tissue using new infrared imaging spectroscopy. Kidder LH, et al. **Nat Med** 1997 Feb;3(2):235–7

Neurosarcoidosis following augmentation mammoplasty with silicone. Yoshida T, et al. **Neurol Res** 1996 Aug; 18(4):319–20

Silicone breast implants and neurologic disorders. Report of the Practice Committee of the American Academy of Neurology. Ferguson JH. **Neurology** 1997 Jun;48(6):1504–7 (16 ref.)

Microbial evaluation: 139 implants removed from symptomatic patients. Ahn CY, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1225–9

Breast implants [letter] Archer RR. **Plast Reconstr Surg** 1997 Aug;100(2):555

Skin test for silicone implants [letter] Atabey A, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1316–7

Silicone–associated rheumatic disease: an unsupported myth. Blackburn WD Jr, et al. **Plast Reconstr Surg** 1997 Apr; 99(5):1362–7 (45 ref.)

Lack of evidence of systemic inflammatory rheumatic disorders in symptomatic women with breast implants. Blackburn WD Jr, et al. **Plast Reconstr Surg** 1997 Apr; 99(4):1054–60

Failed implant versus silicone bleed [letter; comment] Dowden R, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1323 . Comment on: Plast Reconstr Surg 1996 Jan;97(1):104–9.

Silicone breast implant safety: physical, chemical, and biologic problems [letter] Goldberg EP. **Plast Reconstr Surg** 1997 Jan;99(1):258–61

Internal mammary silicone lymphadenopathy mimicking recurrent breast cancer. Kao CC, et al. **Plast Reconstr Surg** 1997 Jan;99(1):225–9

Anaplastic T-cell lymphoma in proximity to a saline-filled breast implant [letter] Keech JA Jr, et al. **Plast Reconstr Surg** 1997 Aug;100(2):554–5

Carcinogenic potential of silicone breast implants: a Connecticut statewide study. Kern KA, et al. **Plast Reconstr Surg** 1997 Sep;100(3):737–47; discussion 748–9

Silicone implants: aesthetic triumph or surgical disaster? [editorial] Melmed EP. **Plast Reconstr Surg** 1996 Nov; 98(6):1071–3

Subacute torsion of periprosthetic capsular tissue presenting as a painful breast tumor. Mendez-Fernandez MA. **Plast Reconstr Surg** 1997 Sep;100(3):750–2

Capsular contracture with textured versus smooth saline-filled implants for breast augmentation: a prospective clinical study. Tarpila E, et al. **Plast Reconstr Surg** 1997 Jun;99(7):1934–9

Comparison of psychological symptoms of women requesting removal of breast implants with those of breast cancer patients and healthy controls. Wells KE, et al. **Plast Reconstr Surg** 1997 Mar;99(3):680–5

Augmenting discord [news] Nemecek S. **Sci Am** 1996 Apr; 274(4):36, 38

Breast-implant ruling sends a message [news] Kaiser J. **Science** 1997 Jan 3;275(5296):21

Chest wall fibromatosis associated with silicone breast implants. Aaron AD, et al. **Surg Oncol** 1996 Apr;5(2):93–9

Silicone breast implants: pathology. Raso DS, et al. **Ultrastruct Pathol** 1997 May-Jun;21(3):263–71 (46 ref.)

[Experience in management of capsular contraction through areolar incision after implantation of prosthesis for augmentation mammaplasty] Luo S, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):251–2 (Eng. Abstr.) **(Chi)**

[An analysis of complications after implantation of saline-filled silicone prosthesis for augmentation mammaplasty in 294 cases] Zhu H, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):248–50 (Eng. Abstr.) **(Chi)**

[Silicone breast implants and breast cancer (see comments)] Kjøller KH, et al. **Ugeskr Laeger** 1997 Mar 17; 159(12):1744–8 (37 ref.) (Eng. Abstr.). Comment in: Ugeskr Laeger 1997 Jul 7;159(28):4410–1. **(Dan)**

[Silicone breast implants and connective tissue diseases (letter; comment)] Zachariae H. **Ugeskr Laeger** 1997 Jul 7; 159(28):4410–1. Comment on: Ugeskr Laeger 1997 Mar 17;159(12):1740–3. Comment on: Ugeskr Laeger 1997 Mar 17;159(12):1744–8. **(Dan)**

[Hashimoto's thyroiditis and silicone breast implants: 2 cases] Vayssairat M, et al. **J Mal Vasc** 1997 Jul;22(3):198–9 (Eng. Abstr.) **(Fre)**

[The value of sonography for the discovery of complications after the implantation of silicone gel prostheses for breast augmentation or reconstruction] Lorenz R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):233–7 (Eng. Abstr.) **(Ger)**

[Silicone and disease: myth or reality? (editorial)] Martínez Castejón R, et al. **Med Clin (Barc)** 1997 Jun 21;109(4):135–6 **(Spa)**

ECONOMICS

Comparison of costs between implant-based and TRAM flap breast reconstruction [letter; comment] Miller SH. **Plast Reconstr Surg** 1996 Oct;98(5):916–7. Comment on: Plast Reconstr Surg 1996 Feb;97(2):364–72.

MICROBIOLOGY

Candida albicans infection of bilateral polyurethane-coated silicone gel breast implants. Niazi ZB, et al. **Ann Plast Surg** 1996 Jul;37(1):91–3

Microbial evaluation: 139 implants removed from symptomatic patients. Ahn CY, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1225–9

Microbial growth inside saline-filled breast implants. Young VL, et al. **Plast Reconstr Surg** 1997 Jul;100(1):182–96

STATISTICS & NUMERICAL DATA

Characteristics of women with and without breast augmentation [see comments] Cook LS, et al. **JAMA** 1997 May 28;277(20):1612–7. Comment in: JAMA 1997 May 28;277(20):1643–4.

Failure of silicone gel breast implants: analysis of literature data for 1652 explanted prostheses [letter] Goldberg EP, et al. **Plast Reconstr Surg** 1997 Jul;100(1):281–4

BREAST MILK see **MILK, HUMAN**

BREAST NEOPLASMS

Nutritional, hormonal, and environmental mechanisms in breast tumorigenesis. Glaspy J. **Adv Exp Med Biol** 1996; 399:27–40 (93 ref.)

Effects of chemotherapy on pathologic and biologic characteristics of locally advanced breast cancer. Honkoop AH, et al. **Am J Clin Pathol** 1997 Feb;107(2):211–8

Chondrosarcomatous cutaneous metastasis. A unique manifestation of sarcomatoid (metaplastic) breast carcinoma. Sexton CW, et al. **Am J Dermatopathol** 1996 Oct;18(5):538–42

Common questions about ductal carcinoma in situ. Dell DD. **Am J Nurs** 1997 May;97(5):61–3, 65–6

Hormone replacement therapy in breast cancer survivors: a cohort study [see comments] DiSaia PJ, et al. **Am J Obstet Gynecol** 1996 May;174(5):1494–8. Comment in: Am J Obstet Gynecol 1997 Feb;176(2):493.

Is hormone replacement therapy safe in breast cancer survivors? [letter; comment] Yalçin S. **Am J Obstet Gynecol** 1997 Feb;176(2):493. Comment on: Am J Obstet Gynecol 1996 May;174(5):1494–8.

The multidisciplinary structured clinical instruction module as a vehicle for cancer education. Sloan DA, et al. **Am J Surg** 1997 Mar;173(3):220–5

Tubular carcinoma of the breast: an institutional review. McBoyle MF, et al. **Am Surg** 1997 Jul;63(7):639–44; discussion 644–5

The structured clinical instruction module as a tool for improving students' understanding of breast cancer. Sloan DA, et al. **Am Surg** 1997 Mar;63(3):255–60

Communication with the breast-cancer patient. An opinion from Russia. Demin E. **Ann N Y Acad Sci** 1997 Feb 20; 809:485–95

Dispute over breast cancer research funds in the US [news] **Ann Oncol** 1997 Jan;8(1):2–3

Three-dimensional survival model of breast cancer patients. Denic S. **Anticancer Res** 1996 Sep-Oct;16(5B):3217–9

Is screening of metastases based on symptoms effective in breast cancer patients? Jäger W, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3169–71

Novel anti-cancer functions of IP6: growth inhibition and differentiation of human mammary cancer cell lines in vitro. Shamsuddin AM, et al. **Anticancer Res** 1996 Nov-Dec; 16(6A):3287–92

Prognostic factors in breast cancer: theoretical and clinical aspects (review). Von Kleist S. **Anticancer Res** 1996 Nov-Dec;16(6C):3907–12 (90 ref.)

Breast cancer in the nineties. Buyske J, et al. **AORN J** 1996 Jul;64(1):64–72 (19 ref.)

Routine follow up of breast cancer in primary care. Most recurrences after breast conservation are detected by regular hospital visits [letter; comment] Dixon JM, et al. **BMJ** 1996 Dec 14;313(7071):1548. Comment on: BMJ 1996 Sep 14;313(7058):665–9.

Consumer participation in research and health care [editorial] Liberati A. **BMJ** 1997 Aug 30;315(7107):499

Recent advances. Diagnosis and treatment of early breast cancer. Silverstein MJ. **BMJ** 1997 Jun 14;314(7096):1736–9 (37 ref.)

Breast carcinomas occurring in young women (< 35 years) are different. Walker RA, et al. **Br J Cancer** 1996 Dec; 74(11):1796–800

Pamidronate in the treatment of osteolytic bone metastases in breast cancer patients. Theriault R. **Br J Clin Pract Symp Suppl** 1996 Sep;87:8–12; discussion 13–4

Case report: acute segmental radiation nephritis on bone scintigraphy. Flanagan FL, et al. **Br J Radiol** 1996 Dec; 69(828):1175–7

Altered lymphatic drainage after lymphadenectomy or radiotherapy of the axilla in patients with breast cancer. Perre CI, et al. **Br J Surg** 1996 Sep;83(9):1258

Ductal carcinoma in situ of the breast. Silverstein MJ. **Br J Surg** 1997 Feb;84(2):145–6

19th Annual San Antonio Breast Cancer Symposium. December 11–14, 1996. Abstracts. **Breast Cancer Res Treat** 1996;41(3):191–297

Establishment and characterisation of new cell lines from human breast tumours initially established as tumour xenografts in NMRI nude mice. Hambly RJ, et al. **Breast Cancer Res Treat** 1997 May;43(3):247–58

Age at diagnosis and multiple primary cancers of the breast and ovary. Suris-Swartz PJ, et al. **Breast Cancer Res Treat** 1996;41(1):21–9

Hormone replacement therapy in cancer survivors: a con opinion. Runowicz CD. **CA Cancer J Clin** 1996 Nov-Dec; 46(6):365–73

Breast cancer. Proceedings of the 2nd International September Breast Conference. London, Ontario. **Can J Oncol** 1995 Dec;5 Suppl 1:1–82

Canadian breast cancer research initiative [news] Liao L, et al. **Can J Oncol** 1995 Sep;5(3):VII–X

Discussion groups on the Internet: journaling. Till JE. **Can J Oncol** 1995 Sep;5(3):379–80

Multidisciplinary breast cancer clinics. Do they work? Gabel M, et al. **Cancer** 1997 Jun 15;79(12):2380–4

Providing information about breast cancer via public forums. Beisecker AE, et al. **Cancer Detect Prev** 1997;21(4):370–9

The role of advocacy in cancer research: not a monster. Langer AS. **Cancer Invest** 1997;15(5):500–2

MCF7/LCC9: an antiestrogen-resistant MCF-7 variant in which acquired resistance to the steroidal antiestrogen ICI 182,780 confers an early cross-resistance to the nonsteroidal antiestrogen tamoxifen. Brünner N, et al. **Cancer Res** 1997 Aug 15;57(16):3486–93

Differential effects of retinoids and antiestrogens on cell cycle progression and cell cycle regulatory genes in human breast cancer cells. Wilcken NR, et al. **Cell Growth Differ** 1996 Jan;7(1):65–74

Breast cancer in older women. Kimmick G, et al. **Clin Geriatr Med** 1997 May;13(2):265–82 (125 ref.)

Preinvasive and invasive breast and cervical cancer prior to or during pregnancy. Shivvers SA, et al. **Clin Perinatol** 1997 Jun;24(2):369–89 (109 ref.)

Breast cancer and hormonal contraceptives: further results. Collaborative Group on Hormonal Factors in Breast Cancer. **Contraception** 1996 Sep;54(3 Suppl):1S–106S (69 ref.)

Breast cancer. **Curr Opin Oncol** 1996 Nov;8(6):B188–209

Epidemiology, prevention, and early detection of breast cancer. Daudt A, et al. **Curr Opin Oncol** 1996 Nov; 8(6):455–61 (82 ref.)

Acquired lymphangiectasis following mastectomy and radiation therapy—report of a case and review of the literature. Giannelli V, et al. **Cutis** 1996 Oct;58(4):276–8 (11 ref.)

7th EORTC Breast Cancer Working Conference. Bordeaux, France, September 10–13, 1996. Abstracts. **Eur J Cancer** 1996;32 Suppl 2:1–68

Who truly represents the needs of the consumer diagnosed with breast cancer? Who are these patients' advocates? How are they informed? What, if any, are their secret agendas? [editorial] Baum M. **Eur J Cancer** 1997 May; 33(6):807–8

New directions in breast cancer research. Wolman SR, et al. **FASEB J** 1997 Jun;11(7):535–43 (47 ref.)

4-Hydroxycatecholestrogen metabolism responses to exercise and training: possible implications for menstrual cycle irregularities and breast cancer. De Crée C, et al. **Fertil Steril** 1997 Mar;67(3):505–16

Is the lectin binding pattern of human breast and colon cancer cells influenced by modulators of sialic acid metabolism? Schumacher U, et al. **Histochem Cell Biol** 1996 Dec; 106(6):599–604

Determinants of age at menarche as early life predictors of breast cancer risk [see comments] Petridou E, et al. **Int J Cancer** 1996 Oct 9;68(2):193–8. Comment in: Int J Cancer 1997 Jul 17;72(2):383.

Metachronous contralateral breast cancer as first event of relapse. de la Rochefordière A, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):615–21

Advances in breast cancer: clinical and biological lessons from screening. Gorey TF. **Ir J Med Sci** 1996 Jul-Sep; 165(3):143–50 (19 ref.)

Keeping pace with the evolving management of nonpalpable breast lesions [editorial; comment] Watson DK. **J Am Osteopath Assoc** 1996 Jul;96(7):397. Comment on: J Am Osteopath Assoc 1996 Jul;96(7):398–400.

The critical role of alcohol consumption in determining the risk of breast cancer with postmenopausal estrogen administration [editorial; comment] Zumoff B. **J Clin Endocrinol Metab** 1997 Jun;82(6):1656–8 (26 ref.). Comment on: J Clin Endocrinol Metab 1997 Jul;82(7):2378.

c-erb B2 overexpression decreases the benefit of adjuvant tamoxifen in early-stage breast cancer without axillary lymph node metastases. Carlomagno C, et al. **J Clin Oncol** 1996 Oct;14(10):2702–8

Insulin receptors in breast cancer: biological and clinical role. Papa V, et al. **J Endocrinol Invest** 1996 May;19(5):324–33 (54 ref.)

Human breast carcinoma cells synthesize a protein immunorelated to platelet glycoprotein-Ib alpha with different functional properties. Oleksowicz L, et al. **J Lab Clin Med** 1997 Mar;129(3):337–46

Primary breast cancer: opportunities and problems in detection and treatment. Foster RS Jr. **J Med Assoc Ga** 1997 Sep;86(3):197–200 (11 ref.)

Breast implants and cancer. Brinton LA, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1341–9 (118 ref.)

Pattern of second primary neoplasms following breast cancer. Parikh B, et al. **J Surg Oncol** 1996 Nov;63(3):179–82

Breast cancer in the news: the rise of consumer power in medical care [editorial] Healy BP. **J Womens Health** 1997 Apr;6(2):141–2

Breast cancer. Wootton JC. **J Womens Health** 1997 Apr; 6(2):235–7

Information needs and decisional preferences in women with breast cancer. Degner LF, et al. **JAMA** 1997 May 14; 277(18):1485–92

Breast cancer gets the hard sell [editorial] **Lancet** 1997 Aug 9;350(9075):377

Molecular staging of cancer [letter] Anderson TJ. **Lancet** 1997 Sep 27;350(9082):962

Breast cancer: the real challenge. Pritchard K. **Lancet** 1997 Mar;349 Suppl 1:sI24–6 (31 ref.)

Prevention of dermatolymphangioadenitis by combined physiotherapy of the swollen arm after treatment for breast cancer. Földi E. **Lymphology** 1996 Jun;29(2):48–9

Breast cancer among Asian women. Nebres MV, et al. **Med Health R I** 1996 Nov;79(11):388–91 (20 ref.)

Breast cancer consensus report. **Med J Aust** 1994 Nov 7;161 Suppl:S1–16 (1 ref.)

Exercise and breast cancer [letter; comment] Berger A, et

al. **N Engl J Med** 1997 Sep 4;337(10):708; discussion 709 . Comment on: N Engl J Med 1997 May 1;336(18):1269–75. Comment on: N Engl J Med 1997 May 1;336(18):1311–2.

Karolinska Institute disowns work of cancer researcher [news] Butler D. **Nature** 1997 Aug 28;388(6645):816

The effect of managed care on breast cancer detection, treatment, and research. Haas BK. **Nurs Outlook** 1997 Jul–Aug;45(4):167–72 (36 ref.)

Dietary omega–3 polyunsaturated fats and breast cancer. Cave WT Jr. **Nutrition** 1996 Jan;12(1 Suppl):S39–42 (62 ref.)

Postmastectomy radiation: then and now. Fowble B. **Oncology (Huntingt)** 1997 Feb;11(2):213–34, 239; discussion 239–40, 243 (169 ref.)

Use of predictors of recurrence to plan therapy for DCIS of the breast. Silverstein MJ, et al. **Oncology (Huntingt)** 1997 Mar;11(3):393–406, 409–10; discussion 413–5 (74 ref.)

Breast cancer. Sainsbury R. **Postgrad Med J** 1996 Nov; 72(853):663–6 (20 ref.)

Florid papillomatosis of the nipple ducts [letter] Bida NM. **S Afr Med J** 1996 Dec;86(12):1555–6

Hormone replacement therapy in patients who have had breast cancer [letter; comment] Davey DA. **S Afr Med J** 1997 Feb;87(2):175. Comment on: S Afr Med J 1996 Oct;86(10):1294.

Hormone replacement therapy in patients who have had breast cancer [letter; comment] [see comments] Murray EM, et al. **S Afr Med J** 1996 Oct;86(10):1294. Comment on: S Afr Med J 1996 Feb;86(2):186–7. Comment in: S Afr Med J 1997 Feb;87(2):175.

Influence of low doses of radiation due to 222Rn on proliferation of fibroblasts and MCF–7 human breast cancer cells in vitro. Soto J, et al. **Sci Total Environ** 1996 Mar 29;181(3):181–5

Activists vote $14 million for research [news] Marshall E. **Science** 1996 Nov 15;274(5290):1077

Twenty–year follow–up of minimal breast cancer from the Breast Cancer Detection Demonstration Project. Lopez MJ, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):393–401

Results from a multidisciplinary breast center. Analysis of disease discovered. Silverstein MJ, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):301–14

The worst list. Breast cancer now leading source of medical malpractice claims. Jones TL. **Tex Med** 1996 Feb; 92(2):34–6

Pregnancy–associated breast cancer. Anderson BO. **West J Med** 1996 Feb;164(2):162

Biomarkers for breast cancer. Benz CC. **West J Med** 1996 Feb;164(2):164

[Breast cancer. Tissue parameters of prognosis. Colloquium. Paris, 9 December 1996] **Bull Cancer** 1996 Dec; 83(12):1023–60 **(Fre)**

[Contralateral breast cancer: metastasis or second primary cancer?] Broët P, et al. **Bull Cancer** 1996 Oct;83(10):870–6 (34 ref.) (Eng. Abstr.) **(Fre)**

[Clinical research on breast cancer: can we still afford our ambitions?] Roché H. **Bull Cancer** 1997 Jan;84(1):7–9 (Eng. Abstr.) **(Fre)**

[Bilateral highly malignant centroblastic lymphoma of the breast] Hering M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):198–200 **(Ger)**

[Primary lymphoma of the breast. Three cases of non–Hodgkin lymphoma] Casolo P, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):207–11; discussion 212 (Eng. Abstr.) **(Ita)**

[Surgical treatment of liver metastases of breast carcinoma. Our experience] Anania G, et al. **Minerva Chir** 1997 Mar; 52(3):209–15 (Eng. Abstr.) **(Ita)**

[A case of choroid metastasis of cancer of the breast with an excellent response to chemotherapy (letter)] Marcos Sánchez F, et al. **An Med Interna** 1996 Nov;13(11):567 **(Spa)**

[Changes in the cell cycle in breast cancer] Cervantes M, et al. **Ginecol Obstet Mex** 1996 May;64:230–5 (30 ref.) (Eng. Abstr.) **(Spa)**

[A unique chance to study breast cancer. A Saudi Arabian hospital concentrates on treatment and research] Ezzat A, et al. **Lakartidningen** 1997 May 14;94(20):1913–4 **(Swe)**

BLOOD

Activity of cancer procoagulant (CP) in serum of patients with cancer of lung, breast, oesophagus and colorectum. Rucińska M, et al. **Acta Biochim Pol** 1997;44(1):109–12

Hormone–metabolic status in moderately smoking breast cancer patients. Berstein LM, et al. **Acta Oncol** 1997; 36(2):137–40

Detection of occult tumour cells in bone marrow and blood in breast cancer patients––methods and clinical significance. Kvalheim G. **Acta Oncol** 1996;35 Suppl 8:13–8 (31 ref.)

Relation of serum levels of testosterone and dehydroepiandrosterone sulfate to risk of breast cancer in postmenopausal women. Zeleniuch–Jacquotte A, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1030–8

A multicentre, randomized, pharmacokinetic, endocrine and clinical study to evaluate formestane in breast cancer patients at first relapse: endocrine and clinical results. The Italian Trials in Medical Oncology (I.T.M.O.) group. Bajetta E, et al. **Ann Oncol** 1997 Jul;8(7):649–54

Sensitive detection of circulating breast cancer cells by reverse–transcriptase polymerase chain reaction of maspin gene. Luppi M, et al. **Ann Oncol** 1996 Aug;7(6):619–24

Increased concentration of soluble E–selectin in the sera of breast cancer patients. Matsuura N, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1367–72

Evaluation of the IMMULITE BR–MA and CEA assays and comparison with immunoradiometric assays for CA15–3 and CEA in breast cancer. Murray A, et al. **Anticancer Res** 1997 May–Jun;17(3C):1945–9

Total and lipid–bound serum sialic acid in benign and malignant breast disease. Romppanen J, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1249–53

Serum levels of circulating intercellular adhesion molecule–1 in patients with breast cancer. Sheen–Chen SM, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2823–6

Serum methionine depletion without side effects by methioninase in metastatic breast cancer patients. Tan Y, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3937–42

The serum tumor marker M3/M21 in the follow–up of breast cancer patients. Tempfer C, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3049–52

Changes of cytokines and thyroid function in patients with recurrent breast cancer. Yokoe T, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):695–9

The prognostic significance of proliferating cell nuclear antigen in patients with lymph node–positive breast cancer. Sheen–Chen SM, et al. **Arch Surg** 1997 Mar;132(3):264–7

Sensitivity and specificity of in situ bacterial chain reaction (BCR) in detecting sparse human tumor cells in peripheral blood. Rotman B, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):80–5

Alterations in circulating fatty acids and the compartmentation of selected metabolites in women with breast cancer. Quevedo–Coli S, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):1–10

Serum MCA, CA 125 and CA 19.9 determination in primary breast cancer. Yenisey C, et al. **Biochem Soc Trans** 1996 May;24(2):302S

Serum copper and ceruloplasmin concentrations in patients with primary breast cancer. Yenisey C, et al. **Biochem Soc Trans** 1996 May;24(2):321S

A high resolution PIXE measurement for blood plasma ultrafiltrate. Application to loosely bound copper. Kupila–Rantala T, et al. **Biol Trace Elem Res** 1996 Oct–Nov;55(1–2):173–9

Effect of the 5–HT3 receptor antagonist ondansetron on plasma AVP secretion: a study in cancer patients. Barreca T, et al. **Biomed Pharmacother** 1996;50(10):512–4

Monitoring of tumor cell purging after highly efficient immunomagnetic selection of CD34 cells from leukapheresis products in breast cancer patients: comparison of immunocytochemical tumor cell staining and reverse transcriptase–polymerase chain reaction. Mapara MY, et al. **Blood** 1997 Jan 1;89(1):337–44

Ex vivo expansion of CD34+ peripheral blood progenitor cells: implications for the expansion of contaminating epithelial tumor cells. Vogel W, et al. **Blood** 1996 Oct 1; 88(7):2707–13

Detection of stromal cells in peripheral blood progenitor cell collections from breast cancer patients. Fernández M, et al. **Bone Marrow Transplant** 1997 Aug;20(4):265–71

Detection of cancer cells in peripheral blood stem cells of women with breast cancer by RT–PCR and cell culture. Krüger WH, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S18–20

Tumor contamination in stem cell products from patients with neuroblastoma and breast cancer. Moss TJ. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S17

Cytological and cytochemical study of the peripheral blood mononuclear cells in leukapheresis products mobilized with rhG–CSF [letter] Villegas A, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1199

Influence of anastrozole (Arimidex), a selective, non–steroidal aromatase inhibitor, on in vivo aromatisation and plasma oestrogen levels in postmenopausal women with breast cancer. Geisler J, et al. **Br J Cancer** 1996 Oct; 74(8):1286–91

A quantitative reverse transcriptase polymerase chain reaction–based assay to detect carcinoma cells in peripheral blood. Helfrich W, et al. **Br J Cancer** 1997;76(1):29–35

Characteristics of the menstrual cycle at the time of surgery for breast cancer. Holdaway IM, et al. **Br J Cancer** 1997; 75(3):413–6

Reverse transcriptase–polymerase chain reaction for prostate–specific antigen may be a prognostic indicator in breast cancer. Lehrer S, et al. **Br J Cancer** 1996 Sep; 74(6):871–3

Utility of C–erbB–2 in tissue and in serum in the early diagnosis of recurrence in breast cancer patients: comparison with carcinoembryonic antigen and CA 15.3. Molina R, et al. **Br J Cancer** 1996 Oct;74(7):1126–31

Collection of circulating progenitor cells after epirubicin, paclitaxel and filgrastim in patients with metastatic breast cancer. Pedrazzoli P, et al. **Br J Cancer** 1997;75(9):1368–72

Relationship between CA 15–3 serum levels and disease extent in predicting overall survival of breast cancer patients with newly diagnosed metastatic disease. Tampellini M, et al. **Br J Cancer** 1997;75(5):698–702

A prospective study of endogenous serum hormone concentrations and breast cancer risk in post–menopausal women on the island of Guernsey. Thomas HV, et al. **Br J Cancer** 1997;76(3):401–5

Disruption of the circadian patterns of serum cortisol in breast and ovarian cancer patients: relationships with tumour marker antigens. Touitou Y, et al. **Br J Cancer** 1996 Oct;74(8):1248–52

Influence of circulating c–erbB–2 serum protein on response to adjuvant chemotherapy in node–positive breast cancer patients. Fehm T, et al. **Breast Cancer Res Treat** 1997 Mar; 43(1):87–95

Influence of plasma estrogen levels on the length of the disease–free interval in postmenopausal women with breast cancer. Lønning PE, et al. **Breast Cancer Res Treat** 1996; 39(3):335–41

Effects of tamoxifen on serum lipid and apolipoprotein levels in postmenopausal patients with breast cancer. Morales M, et al. **Breast Cancer Res Treat** 1996;40(3):265–70

Epidermal growth factor in plasma and saliva of patients with active breast cancer and breast cancer patients in follow–up compared with healthy women. Navarro MA, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):83–6

A prothrombotic state in breast cancer patients treated with adjuvant chemotherapy. Rella C, et al. **Breast Cancer Res Treat** 1996;40(2):151–9

Circulating levels of the macrophage colony stimulating factor CSF–1 in primary and metastatic breast cancer patients. A pilot study. Scholl SM, et al. **Breast Cancer Res Treat** 1996;39(3):275–83

Serum concentration of tumor necrosis factor in patients with breast cancer. Sheen–Chen SM, et al. **Breast Cancer Res Treat** 1997 May;43(3):211–5

Prognostic significance of serum c–erbB–2 protein in breast cancer patients. Willsher PC, et al. **Breast Cancer Res Treat** 1996;40(3):251–5

Effect of clodronate on calcidiol serum levels in women with breast cancer. Martínez ME, et al. **Calcif Tissue Int** 1997 Aug;61(2):148–50

Increased cathepsin D level in the serum of patients with metastatic breast carcinoma detected with a specific pro–cathepsin D immunoassay. Brouillet JP, et al. **Cancer** 1997 Jun 1;79(11):2132–6

Medroxyprogesterone acetate treatment reduces serum interleukin–6 levels in patients with metastatic breast carcinoma. Yamashita J, et al. **Cancer** 1996 Dec 1; 78(11):2346–52

Treatment for breast cancer and blood levels of chlorinated hydrocarbons. Gammon MD, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):467–71

Clinical evaluation of potential usefulness of CEA, CA 15–3, and MCA in follow–up of breast cancer patients. Jezersek B, et al. **Cancer Lett** 1996 Dec 20;110(1–2):137–44

Dichlorodiphenyltrichloroethane serum levels and breast cancer risk: a case–control study from Mexico. López–Carrillo L, et al. **Cancer Res** 1997 Sep 1; 57(17):3728–32

Utility of CA 15–3 and CEA in monitoring breast cancer patients with bone metastases: special emphasis on "spiking" phenomena. Yasasever V, et al. **Clin Biochem** 1997 Feb; 30(1):53–6

Clinical and technical evaluation of ACS BR serum assay of MUC1 gene–derived glycoprotein in breast cancer, and comparison with CA 15–3 assays. Bon GG, et al. **Clin Chem** 1997 Apr;43(4):585–93

Pyridinium crosslinks in the monitoring of patients with bone metastases from carcinoma of the breast. Walne AJ, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):30–4

Amino acids and their derivatives in blood plasma of patients with breast cancer treated with Ukrain. Part V. Nefyodov LI, et al. **Drugs Exp Clin Res** 1996;22(3–5):155–7

Influence of Ukrain on patients with surgically treated breast cancer. Part II. Hormonal profile. Uglyanica KN, et al. **Drugs Exp Clin Res** 1996;22(3–5):139–41

Serum sex hormone levels are related to breast cancer risk in postmenopausal women. Dorgan JF, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:583–5

Pharmacokinetics and tolerance of vinorelbine in elderly patients with metastatic breast cancer. Sorio R, et al. **Eur J Cancer** 1997 Feb;33(2):301–3

Reverse transcriptase–polymerase chain reaction (RT–PCR)–controlled immunomagnetic purging of breast cancer cells using the magnetic cell separation (MACS) system: a sensitive method for monitoring purging efficiency. Hildebrandt M, et al. **Exp Hematol** 1997 Jan; 25(1):57–65

Sex hormones in postmenopausal women with breast cancer on tamoxifen. Kostoglou–Athanassiou I, et al. **Horm Res** 1997;47(3) 116–20

Molecular detection o' circulating solid carcinoma cells in the peripheral blood: the concept of early systemic disease. Mori M, et al. **Int J Cancer** 1996 Dec 11;68(6):739–43

Characterisation and clinicopathological correlates of serum anti–p53 antibodies in breast and colon cancer. Coomber D, et al. **J Cancer Res Clin Oncol** 1996;122(12):757–62

Effects of treatment with megestrol acetate, aminoglutethimide, or formestane on insulin–like growth factor (IGF) I and II, IGF–binding proteins (IGFBPs), and IGFBP–3 protease status in patients with advanced breast cancer. Frost VJ, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2216–21

Serum 1,25–dihydroxyvitamin D may be related inversely to disease activity in breast cancer patients with bone metastases. Mawer EB, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):118–22

Effects of chemotherapy–induced castration on serum lipids and apoproteins in premenopausal women with node–positive breast cancer. Saarto T, et al.

J Clin Endocrinol Metab 1996 Dec;81(12):4453-7

Clinical practice guidelines for the use of tumor markers in breast and colorectal cancer. Adopted on May 17, 1996 by the American Society of Clinical Oncology [see comments] **J Clin Oncol** 1996 Oct;14(10):2843-77. Comment in: J Clin Oncol 1997 Feb;15(2):863-4.

Dose-finding study and pharmacokinetics of epirubicin and paclitaxel over 3 hours: a regimen with high activity and low cardiotoxicity in advanced breast cancer. Conte PF, et al. **J Clin Oncol** 1997 Jul;15(7):2510-7

Phase I pharmacokinetic study of multicycle high-dose carboplatin followed by peripheral-blood stem-cell infusion in patients with cancer. Johansen MJ, et al. **J Clin Oncol** 1997 Apr;15(4):1481-91

Tumor marker guidelines [letter] Sklaroff RB. **J Clin Oncol** 1997 May;15(5):2175-6

Prediction of response to antiestrogen therapy in advanced breast cancer patients by pretreatment circulating levels of extracellular domain of the HER-2/c-neu protein. Yamauchi H, et al. **J Clin Oncol** 1997 Jul;15(7):2518-25

Immunomagnetic techniques for the enrichment and detection of isolated breast carcinoma cells in bone marrow and peripheral blood. Naume B, et al. **J Hematother** 1997 Apr;6(2):103-14

Re: hormone levels during dietary changes in premenopausal African-American women [letter; comment] Hill P. **J Natl Cancer Inst** 1997 Apr 2;89(7):520-1. Comment on: J Natl Cancer Inst 1996 Oct 2;88(19):1369-74.

Re: Reversal of relation between body mass and endogenous estrogen concentrations with menopausal status [letter; comment] Thomas HV, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):396-8. Comment on: J Natl Cancer Inst 1996 Jun 5;88(11):756-8.

Administration of long-term tamoxifen therapy modifies the plasma lipoprotein-lipid concentration and lipid transfer protein I activity in postmenopausal women with breast cancer. Wasan KM, et al. **J Pharm Sci** 1997 Jul;86(7):876-9

"The enzymatic basis for the rat liver 6-hydroxymelatonin sulfotransferase activity" [letter; comment] Bartsch C, et al. **J Pineal Res** 1996 Apr;20(3):173. Comment on: J Pineal Res 1995 Jan;18(1):49-55.

Increased level of circulating adhesion molecules in the sera of breast cancer patients with distant metastases. Matsuura N, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):135-9

Impaired cholesterol esterification in the plasma in patients with breast cancer. Subbaiah PV, et al. **Lipids** 1997 Feb; 32(2):157-62

Evaluation of CA 15-3 serum levels in breast cancer patients. Skrzydlewski Z, et al. **Minerva Chir** 1997 Mar;52(3):251-4

Comparative study of blood insulin levels in breast and endometrial cancer patients. Gamayunova VB, et al. **Neoplasma** 1997;44(2):123-6

Pretreatment values of serum CA 15-3 antigen related to prognostic factors in breast cancer patients. Wojtacki J, et al. **Neoplasma** 1996;43(4):225-9

Elevated levels of plasma triglycerides are associated with histologically defined premenopausal breast cancer risk. Goodwin PJ, et al. **Nutr Cancer** 1997;27(3):284-92

Plasmatic plasminogen activator inhibitor activity in patients with primary breast cancer [letter] von Tempelhoff GF, et al. **Thromb Haemost** 1997 Mar;77(3):606-8

Influence of neoadjuvant chemotherapy on serum tumor markers CA 15-3, MCA, CEA, TPS and TPA in breast cancer patients with operable disease. Bottini A, et al. **Tumour Biol** 1997;18(5):301-10

[Performances of two kits for parathyroid hormone-related peptide (PTHrP) assay in the additional study of malignant hypercalcemias] Minebois-Villegas A, et al. **Pathol Biol (Paris)** 1995 Nov;43(9):799-805 (Eng. Abstr.) **(Fre)**

[Androstenedione conversion in human peripheral blood lymphocytes] Bershtein LM, et al. **Biull Eksp Biol Med** 1994 May;117(5):517-9 **(Rus)**

[Changes in the fatty acid composition of serum albumin in patients with lung and breast neoplasms] Tolkacheva NV, et al. **Vopr Med Khim** 1997 Jul-Aug;43(4):261-6 (Eng. Abstr.) **(Rus)**

[Breast cancer with low levels of blood lipids] Korman DB, et al. **Vopr Onkol** 1997;43(2):164-70 (Eng. Abstr.) **(Rus)**

[Adrenal steroids in patients with breast cancer and in women with age-related impaired glucose tolerance] Odin VI, et al. **Vopr Onkol** 1996;42(4):22-6 (Eng. Abstr.) **(Rus)**

[Correction of trace element metabolism in patients with breast cancer during radiation therapy] Shkala LV. **Vopr Onkol** 1997;43(3):273-4 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

Vascularization, blood flow, oxygenation, tissue pH, and bioenergetic status of human breast cancer. Vaupel P. **Adv Exp Med Biol** 1997;411:243-54 (40 ref.)

Computer-assisted image analysis of vascularity [letter; comment] Simpson JF, et al. **Am J Clin Pathol** 1997 Jan; 107(1):132-3. Comment on: Am J Clin Pathol 1996 Jun;105(6):705-10.

Tumor angiogenesis in node-negative breast cancer: relationship with relapse free survival. Karaiossifidi H, et al. **Anticancer Res** 1996 Nov-Dec;16(6C):4001-2

Biphasic effect of thrombospondin-1 (TSP-1) in the regulation of angiogenesis in human breast carcinoma. Pazouki S, et al. **Biochem Soc Trans** 1996 Aug;24(3):368S

Is a histological section representative of whole tumour vascularity in breast cancer? Martin L, et al. **Br J Cancer** 1997;76(1):40-3

Impaired hemorheology in patients with postmastectomy lymphedema. Djavanmard MP, et al. **Breast Cancer Res Treat** 1996;38(3):283-8

Analysis of the tumor staining obtained by preoperative IV-DSA for breast cancer patients: density and metastasis correlation. Haga S, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):129-35

Breast cancer angiogenesis--new approaches to therapy via antiangiogenesis, hypoxic activated drugs, and vascular targeting. Harris AL, et al. **Breast Cancer Res Treat** 1996; 38(1):97-108 (52 ref.)

Breast cancer vascularity: color Doppler sonography and histopathology study. Lee WJ, et al. **Breast Cancer Res Treat** 1996;37(3):291-8

Distribution of stromelysin-3 mRNA transcripts and microvessels in human breast carcinomas. Linder C, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):207-13

Vascularity demonstrated by Doppler ultrasound and immunohistochemistry in invasive ductal carcinoma of the breast. Sterns EE, et al. **Breast Cancer Res Treat** 1996; 40(2):197-203

Macromolecular interstitial clearance, tumour vascularity, other prognostic factors and breast cancer survival. Sterns EE, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):113-20

Influence of investigator experience and microscopic field size on microvessel density in node-negative breast carcinoma. Vermeulen PB, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):165-72

The role of angiogenic growth factors in breast cancer progression. Kern FG, et al. **Cancer Metastasis Rev** 1996 Jun;15(2):213-9 (38 ref.)

Association of macrophage infiltration with angiogenesis and prognosis in invasive breast carcinoma. Leek RD, et al. **Cancer Res** 1996 Oct 15;56(20):4625-9

Angiogenesis in breast cancer. Weidner N. **Cancer Treat Res** 1996;83:265-301 (162 ref.)

Clinical significance of the determination of angiogenesis in human breast cancer: update of the biological background and overview of the Vicenza studies. Gasparini G. **Eur J Cancer** 1996 Dec;32A(14):2485-93 (75 ref.)

Angiogenesis as a biologic and prognostic indicator in human breast carcinoma. Engels K, et al. **EXS** 1997;79:113-56 (311 ref.)

Breast cancer; tumor neovasculature and the effect of tissue inhibitor of metalloproteinases-1 (TIMP-1) on angiogenesis. Thorgeirsson UP, et al. **In Vivo** 1996 Mar-Apr;10(2):137-44

Effects of tamoxifen and interferon-beta or the combination on tumor-induced angiogenesis. Lindner DJ, et al. **Int J Cancer** 1997 May 2;71(3):456-61

Immunohistochemical analysis of integrin alpha vbeta3 expression on tumor-associated vessels of human carcinomas [published erratum appears in Int J Cancer 1997 Aug 7;72(4):706-7] Max R, et al. **Int J Cancer** 1997 May 2;71(3):320-4

Angiogenesis does not predict clinical response to doxorubicin monotherapy in patients with locally advanced breast cancer [letter] Paulsen T, et al. **Int J Cancer** 1997 Feb 20;74(1):138-40

Defective tumor vascularization induced by metastasin 1 expression. Onischenko A, et al. **Invasion Metastasis** 1996; 16(3):160-8

Color Doppler ultrasound and spectral analysis of tumor vessels in the differential diagnosis of solid breast masses. Sahin-Akyar G, et al. **Invest Radiol** 1996 Feb;31(2):72-9

Angiogenesis and inflammation in invasive carcinoma of the breast. Lee AH, et al. **J Clin Pathol** 1997 Aug;50(8):669-73

Microvessel density of invasive breast cancer assessed by dynamic Gd-DTPA enhanced MRI. Buckley DL, et al. **J Magn Reson Imaging** 1997 May-Jun;7(3):461-4

Angiogenic response of MCF7 human breast cancer to hormonal treatment: assessment by dynamic GdDTPA-enhanced MRI at high spatial resolution. Furman-Haran E, et al. **J Magn Reson Imaging** 1996 Jan-Feb;6(1):195-202

Association of tumor angiogenesis with bone marrow micrometastases in breast cancer patients. Fox SB, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1044-9

Angiogenesis as a predictor of long-term survival for patients with node-negative breast cancer. Heimann R, et al. **J Natl Cancer Inst** 1996 Dec 4;88(23):1764-9

Up-regulation of thymidine phosphorylase expression is associated with a discrete pattern of angiogenesis in ductal carcinomas in situ of the breast. Engels K, et al. **J Pathol** 1997 Aug;182(4):414-20

Distinct angiogenic patterns are associated with high-grade in situ ductal carcinomas of the breast. Engels K, et al. **J Pathol** 1997 Feb;181(2):207-12

Angiogenesis and inflammation in ductal carcinoma in situ of the breast. Lee AH, et al. **J Pathol** 1997 Feb;181(2):200-6

Tumour angiogenesis as a prognostic marker in infiltrating lobular carcinoma of the breast [see comments] Morphopoulos G, et al. **J Pathol** 1996 Sep;180(1):44-9. Comment in: J Pathol 1996 Sep;180(1):6-7.

Angiogenesis and breast cancer prognosis--a continuing issue [editorial; comment] Walker RA. **J Pathol** 1996 Sep; 180(1):6-7. Comment on: J Pathol 1996 Sep;180(1):44-9.

Scatter factor stimulates tumor growth and tumor angiogenesis in human breast cancers in the mammary fat pads of nude mice. Lamszus K, et al. **Lab Invest** 1997 Mar; 76(3):339-53

Correspondence Re: de Jong JS, van Diest PJ, and Baak JPA (1995). Methods in laboratory investigation: analysis of agreement rather than correlation in assessing heterogeneity and reproducibility of vessel counts in breast cancer [letter; comment] Lee AH, et al. **Lab Invest** 1996 Nov;75(5):755-8. Comment on: Lab Invest 1995 Dec;73(6):922-6.

Is there a correlation in breast carcinomas between tumor size and number of tumor vessels detected by gadolinium-enhanced magnetic resonance mammography? Siewert C, et al. **MAGMA** 1997 Mar;5(1):29-31

Elevated expression of eIF4E and FGF-2 isoforms during vascularization of breast carcinomas. Nathan CA, et al. **Oncogene** 1997 Aug 28;15(9):1087-94

Angiogenesis in breast cancer is related to age but not to other prognostic parameters. Marinho A, et al. **Pathol Res Pract** 1997;193(4):267-73

Microregional fluctuations in perfusion within human tumours detected using laser Doppler flowmetry. Pigott KH, et al. **Radiother Oncol** 1996 Jul;40(1):45-50

Sonographic blood flow measurements in malignant breast tumors. A potential new prognostic factor. Sohn C, et al. **Surg Endosc** 1997 Sep;11(9):957-60

Doppler indices in tumors--resolution of a dilemma? [comment] Cosgrove D, et al. **Ultrasound Obstet Gynecol** 1997 Jul;10(1):9-11 (13 ref.). Comment on: Ultrasound Obstet Gynecol 1997 Jul;10(1):41-7. Comment on: Ultrasound Obstet Gynecol 1997 Jul;10(1):48-53.

Clinicopathologic study of angiogenesis in Japanese patients with breast cancer. Kato T, et al. **World J Surg** 1997 Jan; 21(1):49-56

[Value of neo-angiogenesis evaluation in cancer of the breast] Namer M, et al. **Bull Cancer** 1996 Dec;83(12):1041-2 **(Fre)**

[Diagnostic value of Doppler ultrasound in evaluation of breast tumors] Grischke EM, et al. **Zentralbl Gynakol** 1996; 118(10):553-9 (Eng. Abstr.) **(Ger)**

[Response evaluation with functional magnetic resonance mammography] Knopp M. **Zentralbl Gynakol** 1996; 118(10):571-2 **(Ger)**

CHEMICALLY INDUCED

Oral contraceptives and breast cancer risk. Van Os WA, et al. **Adv Contracept** 1997 Mar;13(1):63-9 (13 ref.)

Diethylstilbestrol and risk of fatal breast cancer in a prospective cohort of US women. Calle EE, et al. **Am J Epidemiol** 1996 Oct 1;144(7):645-52

Re: "Long-term hormone replacement therapy and risk of breast cancer in postmenopausal women" [letter; comment] Stronegger WJ, et al. **Am J Epidemiol** 1996 Oct 15; 144(8):798-9. Comment on: Am J Epidemiol 1995 Oct 15;142(8):788-95.

Methylergonovine maleate and risk of breast cancer [letter] Herrinton LJ, et al. **Ann Epidemiol** 1997 Aug;7(6):427-9

DDT (dicophane) and postmenopausal breast cancer in Europe: case-control study. van't Veer P, et al. **BMJ** 1997 Jul 12;315(7100):81-5

Oral contraceptive (OC) use and risk of breast cancer [letter] Tömasson H. **Br J Cancer** 1997;76(3):416-8

Cyclosporin A and multiple fibroadenomas of the breast. Baildam AD, et al. **Br J Surg** 1996 Dec;83(12):1755-7

Hormone replacement therapy and early clinical appearance of low grade breast cancer [letter; comment] Berrino F, et al. **Cancer Causes Control** 1997 Jul;8(4):672; discussion 673. Comment on: Cancer Causes Control 1996 Jul;7(4):449-57.

Hormone replacement treatment and breast cancer risk: an age-specific analysis. Tavani A, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jan;6(1):11-4

Oxidative DNA damage induced by activation of polychlorinated biphenyls (PCBs): implications for PCB-induced oxidative stress in breast cancer. Oakley GG, et al. **Chem Res Toxicol** 1996 Dec;9(8):1285-92

Modification of oral contraceptive relationships on breast cancer risk by selected factors among younger women. Brinton LA, et al. **Contraception** 1997 Apr;55(4):197-203

Hormone replacement therapy and breast cancer. A review of current knowledge. Bergkvist L, et al. **Drug Saf** 1996 Nov;15(5):360-70 (79 ref.)

Depot medroxyprogesterone acetate and breast cancer. A review of current knowledge. Chilvers CE. **Drug Saf** 1996 Sep;15(3):212-8 (20 ref.)

Hormone replacement therapy and risk for breast cancer. Brinton LA. **Endocrinol Metab Clin North Am** 1997 Jun; 26(2):361-78 (79 ref.)

Breast cancer and MCS in EHP [news] **Environ Health Perspect** 1997 Mar;105(3):274-5

Alcohol and breast cancer in the Swiss Canton of Vaud. Levi F, et al. **Eur J Cancer** 1996 Nov;32A(12):2108-13

Molecular epidemiology of lung and breast cancer. Ambrosone CB, et al. **Eur J Cancer Prev** 1996 Oct; 5(5):391-2 (6 ref.)

Hormone replacement therapy, breast and endometrial cancer. La Vecchia C. **Eur J Cancer Prev** 1996 Oct; 5(5):414-6 (19 ref.)

Oestrogens and the environment. Olea N, et al. **Eur J Cancer Prev** 1996 Dec;5(6):491-6 (30 ref.)

Hormone replacement therapy and breast cancer morbidity, mortality and recurrence. Kenemans P, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):199-203

Hormone replacement therapy and breast cancer [editorial]

Kenemans P, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Jul;67(1):1–4 (32 ref.)

HRT and breast cancer risk, what to advise? von Schoultz B. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):205–8 (27 ref.)

Misplaced confidences? [letter; comment] Meirow D, et al. **Fertil Steril** 1996 Nov;66(5):859; discussion 860–1. Comment on: Fertil Steril 1996 Mar;65(3):470–1.

Oral contraceptives and breast cancer. Johnson KH, et al. **J Fam Pract** 1996 Oct;43(4):340–1

Multistep carcinogenesis of breast cancer and tumour heterogeneity. Beckmann MW, et al. **J Mol Med** 1997 Jun; 75(6):429–39 (150 ref.)

Estrogen replacement therapy for the breast cancer survivor: a reappraisal [editorial] Disaia PJ. **J Surg Oncol** 1997 Mar; 64(3):175–80 (35 ref.)

The Nurses' Health Study: 20–year contribution to the understanding of health among women. Colditz GA, et al. **J Womens Health** 1997 Feb;6(1):49–62

Cancer risk in women receiving estrogen–progestin replacement therapy. Persson I. **Maturitas** 1996 May;23 Suppl:S37–45 (42 ref.)

The effect of pravastatin on coronary events after myocardial infarction [letter; comment] Modan B, et al. **N Engl J Med** 1997 Mar 27;336(13):961; discussion 962. Comment on: N Engl J Med 1996 Oct 3;335(14):1001–9.

Cooked food mutagens and breast cancer [editorial] Gaubatz JW. **Nutrition** 1996 Jun;12(6):449–50

Evidence at molecular level supports link between environmental estrogens and breast cancer [news] **Oncology (Huntingt)** 1997 Sep;11(9):1383

Does post–menopausal hormone–replacement therapy increase risk for breast cancer? A perspective on the findings of the Nurses' Health Study. Herd JA, et al. **Pharmacol Res** 1995 Dec;32(6):331–3

The use of oestrogens and progestin and the risk of breast cancer in post–menopausal women. G.A. Colditz et al. N. Engl. J. Med. 1995; 332: 1589–93. Kauppila A. **Pharmacol Res** 1995 Dec;32(6):327

Oestrogens and progestins and breast cancer risk in post–menopausal women. La Vecchia C. **Pharmacol Res** 1995 Dec;32(6):323–4

Hormone replacement therapy and the breast cancer issue. Samsioe G. **Pharmacol Res** 1995 Dec;32(6):325–6

Critical review of the article by Colditz et al. on 'The use of estrogens and progestins and the risk of breast cancer in postmenopausal women' published in the N.E.J.M. 1995, 332: 1589. Sismondi P, et al. **Pharmacol Res** 1995 Dec; 32(6):329–30

Organochlorine exposure and risk for breast cancer. Safe SH, et al. **Prog Clin Biol Res** 1997;396:133–45 (63 ref.)

Mapping out a search for environmental causes of breast cancer. Brody JG, et al. **Public Health Rep** 1996 Nov–Dec; 111(6):494–507 (44 ref.)

Menopausal hormone replacement therapy and risk of breast cancer. Implications for the treatment of osteoporosis in postmenopausal women [editorial] Lopes P. **Rev Rhum Engl Ed** 1996 May;63(5):309–11

A case control study of breast cancer risk and exposure to injectable progestogen contraceptives. Methods and patterns of use among controls. Bailie R, et al. **S Afr Med J** 1997 Mar;87(3):302–5

Phyllodes tumor in epileptics: a report of two cases. Shiba E, et al. **Surg Today** 1996;26(2):131–4

[Silicone breast implants and breast cancer (see comments)] Kjøller KH, et al. **Ugeskr Laeger** 1997 Mar 17; 159(12):1744–8 (37 ref.) (Eng. Abstr.). Comment in: Ugeskr Laeger 1997 Jul 7;159(28):4410–1. **(Dan)**

[Postmenopausal hormone replacement therapy and cancer of the female genitalia and breast] Burger CW, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):368–72 (22 ref.) (Eng. Abstr.) **(Dut)**

[Oral contraception and the risk of breast cancer] Plu–Bureau G, et al. **Contracept Fertil Sex** 1997 Apr;25(4):301–5 (Eng. Abstr.) **(Fre)**

[Hormonal replacement therapy in menopause and the risk of breast cancer] Lê MG. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(7):684–7 (Eng. Abstr.) **(Fre)**

[Oral contraception and breast cancer] Herman P, et al. **Rev Med Liege** 1997;52(1):12–5 (18 ref.) **(Fre)**

[The breast cancer risk in postmenopausal estrogen substitution. The dilemma of risk assessment] Lippert TH, et al. **Dtsch Med Wochenschr** 1997 Jul 11;122(28–29):908–11 (25 ref.) **(Ger)**

[Long–term hormone substitution and risk of breast carcinoma: current status] Kuhl H, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):M1–5 (36 ref.) **(Ger)**

[Effect of progestins on the breast––protective or proliferative?] Schindler AE. **Zentralbl Gynakol** 1997; 119(8):359–65 (51 ref.) (Eng. Abstr.) **(Ger)**

[How hazardous is the use of female steroid hormones?] Orbo A, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):972–6 (78 ref.) (Eng. Abstr.) **(Nor)**

[New discoveries on oral contraceptives and risk of breast cancer. International data show a moderate increase in risk] Persson I. **Lakartidningen** 1996 Dec 11;93(50):4613–6 **(Swe)**

CHEMISTRY

Multiparameter absorption measurements in automated microscopy. Simultaneous quantitative determination of DNA and nuclear antigen. Oud PS, et al. **Acta Cytol** 1997 Jan–Feb;41(1):188–96

C–erb B2 oncoprotein expression. Correlation with the Ki–67 labeling index and AgNOR counts in breast carcinoma on fine needle aspiration cytology. Sinha SK, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1217–20

Prognostic significance of TGF–alpha expression in breast cancer. Auvinen PK, et al. **Acta Oncol** 1996;35(8):995–8

Breast cancer associated mucin: a review. Segal–Eiras A, et al. **Allergol Immunopathol (Madr)** 1997 Jul–Aug; 25(4):176–81 (34 ref.)

CD31/PECAM automated and quantitative immunocytochemical assays in breast carcinomas: correlation with patient follow–up. Charpin C, et al. **Am J Clin Pathol** 1997 May;107(5):534–41

Automated immunohistochemical assay for estrogen receptor status in breast cancer using monoclonal antibody CC4–5 on the Ventana ES. Nichols GE, et al. **Am J Clin Pathol** 1996 Sep;106(3):332–8

Expression of the G2–M checkpoint regulators cyclin B1 and cdc2 in nonmalignant and malignant human breast lesions: immunocytochemical and quantitative image analyses. Kawamoto H, et al. **Am J Pathol** 1997 Jan; 150(1):15–23

Epitope–mapped monoclonal antibodies as tools for functional and morphological analyses of the human urokinase receptor in tumor tissue. Luther T, et al. **Am J Pathol** 1997 Apr;150(4):1231–44

Nuclear DNA content of fine needle aspirates of invasive ductal carcinomas of the breast. Sarker S, et al. **Anal Cell Pathol** 1997;13(1):1–8

Influence of debris and aggregates on image cytometry DNA measurement of archival tumors. Boudry C, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):153–7

Quantitative measurement of estrogen and progesterone receptors in breast lumps using image cytometry. Sarker SK, et al. **Anal Quant Cytol Histol** 1997 Feb;19(1):87–91

Reproducibility of subjective immunoscoring of steroid receptors in breast cancer. van Diest PJ, et al. **Anal Quant Cytol Histol** 1996 Oct;18(5):351–4

Further testing of the value of a measurement protocol for DNA ploidy studies using image cytometry. Comparison of results obtained from cytologic and paraffin section preparations. Williams RA, et al. **Anal Quant Cytol Histol** 1996 Oct;18(5):345–50

Value of c–erbB–2 and p53 oncoprotein co–overexpression in human breast cancer. Barbati A, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):401–5

Interobserver reproducibility of immunocytochemical estrogen– and progesterone receptor status assessment in breast cancer. Biesterfeld S, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2497–500

Immunocytochemical detection of the p170 multidrug resistance (MDR) and the p53 tumor suppressor gene proteins in human breast cancer cells: clinical and therapeutical significance. Bodey B, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1311–8

Clinical and prognostic significance of the expression of the c–erbB–2 and c–erbB–3 oncoproteins in primary and metastatic malignant melanomas and breast carcinomas. Bodey B, et al. **Anticancer Res** 1997 Mar–Apr; 17(2B):1319–30

EGF–R expression in ductal breast cancer: proliferation and prognostic implications. Bucci B, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):769–74

ErbB2 assay in breast cancer: possibly improved clinical information using a quantitative method. Dittadi R, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1245–7

A sialoglycoprotein (LEA.135) associated with favourable prognosis of patients with lymph node–negative primary breast carcinoma. Imam SA, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3043–8

The prognostic significance of epidermal growth factor receptor (EGFR), C–erbB–2, Ki–67 and PCNA expression in breast cancer. Ioachim E, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3141–7

Urokinase type plasminogen activator receptor is a novel prognostic factor in breast cancer. Kim SJ, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1373–8

Expression of E–cadherin and catenins in invasive mammary carcinomas. Zschiesche W, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):561–7

Photon linear attenuation coefficients and water content of normal and pathological breast tissues. al–Bahri JS, et al. **Appl Radiat Isot** 1996 Aug;47(8):777–84

Discriminant analysis of normal and malignant breast tissue based upon INAA investigation of elemental concentration. Ng KH, et al. **Appl Radiat Isot** 1997 Jan;48(1):105–9

Immunohistochemical study in breast carcinoma. S100–protein positive cells and neuroendocrine differentiation. Zóltowska A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):271–7

Multiparameter analysis of DNA content and cytokeratin expression in breast carcinoma by laser scanning cytometry. Clatch RJ, et al. **Arch Pathol Lab Med** 1997 Jun; 121(6):585–92

Identification of novel exon–deleted progesterone receptor variant mRNAs in human breast tissue. Leygue E, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):63–8

Lovastatin effects on human breast carcinoma cells. differential toxicity of an adriamycin–resistant derivative and influence on selenocysteine tRNAS. Diamond AM, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):345–55

Markers for the prediction of metastatic potential in breast cancer [letter; comment] Mitchell B. **Br J Biomed Sci** 1996 Dec;53(4):327–8. Comment on: Br J Biomed Sci 1996 Jun;53(2):157–61.

Expression of keratinocyte growth factor and its receptor in human breast cancer. Bansal GS, et al. **Br J Cancer** 1997; 75(11):1567–74

Immunohistochemical determination of oestrogen receptor: comparison of different methods of assessment of staining and correlation with clinical outcome of breast cancer patients [see comments] Barnes DM, et al. **Br J Cancer** 1996 Nov;74(9):1445–51. Comment in: Br J Cancer 1996 Nov;74(9):1329–30.

c–erbB–2 oncoprotein detected by automated quantitative immunocytochemistry in breast carcinomas correlates with patients' overall and disease–free survival. Charpin C, et al. **Br J Cancer** 1997;75(11):1667–73

Automated and quantitative immunocytochemical assays of Bcl–2 protein in breast carcinomas. Charpin C, et al. **Br J Cancer** 1997;76(3):340–6

The location of acidic fibroblast growth factor in the breast is dependent on the activity of proteases present in breast cancer tissue. Coope RC, et al. **Br J Cancer** 1997; 75(11):1621–30

Prognostic impact of proliferation–associated factors MIB1 (Ki–67) and S–phase in node–negative breast cancer. Dettmar P, et al. **Br J Cancer** 1997;75(10):1525–33

Plasminogen activator inhibitor type 2 in breast cancer. Duggan C, et al. **Br J Cancer** 1997;76(5):622–7

Absence of p21 expression is associated with abnormal p53 in human breast carcinomas. Ellis PA, et al. **Br J Cancer** 1997;76(4):480–5

Analysis of somatostatin receptor subtype mRNA expression in human breast cancer. Evans AA, et al. **Br J Cancer** 1997; 75(6):798–803

Expression of the androgen receptor and an androgen–responsive protein, apolipoprotein D, in human breast cancer. Hall RE, et al. **Br J Cancer** 1996 Oct; 74(8):1175–80

Prospective evaluation of prognostic factors in operable breast cancer. Hawkins RA, et al. **Br J Cancer** 1996 Nov; 74(9):1469–78

How best to express oestrogen receptor activity [editorial; comment] [see comments] Hawkins RA. **Br J Cancer** 1996 Nov;74(9):1329–30. Comment on: Br J Cancer 1996 Nov;74(9):1445–51. Comment in: Br J Cancer 1997;76(3):418–9.

Immunohistochemical localization of prostate–specific antigen in benign and malignant breast tissues. Howarth DJ, et al. **Br J Cancer** 1997;75(11):1646–51

E–cadherin relates to EGFR expression and lymph node metastasis in primary breast carcinoma. Jones JL, et al. **Br J Cancer** 1996 Oct;74(8):1237–41

Loss of interleukin 4 receptor–associated molecule gp200–MR6 in human breast cancer: prognostic significance. Kaklamanis L, et al. **Br J Cancer** 1996 Nov; 74(10):1627–31

Primary chemotherapy in breast invasive carcinoma: predictive value of the immunohistochemical detection of hormonal receptors, p53, c–erbB–2, MiB1, pS2 and GST pi. MacGrogan G, et al. **Br J Cancer** 1996 Nov; 74(9):1458–65

Cyclin E overexpression, a negative prognostic factor in breast cancer with strong correlation to oestrogen receptor status. Nielsen NH, et al. **Br J Cancer** 1996 Sep;74(6):874–80

The prognostic significance of expression of the multidrug resistance–associated protein (MRP) in primary breast cancer. Nooter K, et al. **Br J Cancer** 1997;76(4):486–93

pS2 protein: a marker improving prediction of response to neoadjuvant tamoxifen in post–menopausal breast cancer patients. Soubeyran I, et al. **Br J Cancer** 1996 Oct; 74(7):1120–5

Squamoid features and expression of involucrin in primary breast carcinoma associated with high histological grade, tumour cell necrosis and recurrence sites. Tsuda H, et al. **Br J Cancer** 1997;75(10):1519–24

Differential expression of gp200–MR6 molecule in benign hyperplasia and down–regulation in invasive carcinoma of the breast. al–Tubuly AA, et al. **Br J Cancer** 1996 Oct; 74(7):1005–11

Preliminary findings on the expression of thymosin beta–10 in human breast cancer. Verghese–Nikolakaki S, et al. **Br J Cancer** 1996 Nov;74(9):1441–4

Associations between insulin–like growth factors and their binding proteins and other prognostic indicators in breast cancer. Yu H, et al. **Br J Cancer** 1996 Oct;74(8):1242–7

Elevated trace element concentrations in malignant breast tissues. Ng KH, et al. **Br J Radiol** 1997 Apr;70:375–82

Influence of the extraction procedure on plasminogen activator inhibitor–2 (PAI–2) and urokinase receptor (uPAR) assays in breast cancer tissues. Bouchet–Bernet C, et al. **Breast Cancer Res Treat** 1996;41(2):141–6

Reverse transcription–polymerase chain reaction (RT–PCR) assays of estrogen and progesterone receptors in breast cancer. Chevillard S, et al. **Breast Cancer Res Treat** 1996; 41(1):81–9

WAF1/CIP1 protein expression in human breast tumors. Diab SG, et al. **Breast Cancer Res Treat** 1997 Apr; 43(2):99–103

Estrogen receptors, progesterone receptors, and cell

proliferation in human breast cancer. Fanelli MA, et al. **Breast Cancer Res Treat** 1996;37(3):217–28

Cytological evaluation of biological prognostic markers from primary breast carcinomas. Makris A, et al. **Breast Cancer Res Treat** 1997 May;44(1):65–74

Determination of ErbB2 protein in breast cancer tissues by different methods. Relationships with other biological parameters. Piffanelli A, et al. **Breast Cancer Res Treat** 1996;37(3):267–76

p53 protein expression in ductal carcinoma in situ (DCIS) of the breast. Rajan PB, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):283–90

Prostate specific antigen in breast cancer, benign breast disease and normal breast tissue. Yu H, et al. **Breast Cancer Res Treat** 1996;40(2):171–8

Expression of bone matrix proteins in human breast cancer: potential roles in microcalcification formation and in the genesis of bone metastases. Bellahcène A, et al. **Bull Cancer** 1997 Jan;84(1):17–24 (60 ref.)

Expression of scatter factor and c-met receptor in benign and malignant breast tissue. Jin L, et al. **Cancer** 1997 Feb 15;79(4):749–60

Overexpression of eukaryotic initiation factor 4E (eIF4E) in breast carcinoma. Li BD, et al. **Cancer** 1997 Jun 15; 79(12):2385–90

Detection of breast tumor associated mucin epitope on CAMA cell line using monoclonal antibody G3F1 generated against HMFG membrane. Babu PB, et al. **Cancer Biochem Biophys** 1997 Jun;15(4):263–74

Vitamin E concentration in breast adipose tissue of breast cancer patients (Kuopio, Finland). Zhu Z, et al. **Cancer Causes Control** 1996 Nov;7(6):591–5

Simultaneous quantitative analyses of c-erbB-2 protein, epidermal growth factor receptor, cathepsin D, and hormone receptors in breast cancer. Iwase H, et al. **Cancer Detect Prev** 1997;21(1):29–35

Prostate-specific antigen levels in nipple aspirate fluid correlate with breast cancer risk. Sauter ER, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):967–70

Breast cancer metastatic phenotype as predicted by histologic tumor markers [see comments] Heimann R, et al. **Cancer J Sci Am** 1997 Jul–Aug;3(4):224–9. Comment in: Cancer J Sci Am 1997 Jul–Aug;3(4):211–2.

New protein and PCR markers RAK for diagnosis, prognosis and surgery guidance for breast cancer. Rakowicz-Szulczynska EM, et al. **Cancer Lett** 1997 Jan 15;112(1):93–101

Widespread loss of gelsolin in breast cancers of humans, mice, and rats. Asch HL, et al. **Cancer Res** 1996 Nov 1; 56(21):4841–5

Detection of different estrogen receptor forms in breast cancer cytosol by enzyme immunoassay. Dittadi R, et al. **Cancer Res** 1997 Mar 15;57(6):1066–72

Gangliosides expressed in human breast cancer. Marquina G, et al. **Cancer Res** 1996 Nov 15;56(22):5165–71

Breast cancer cells have lower activating protein 1 transcription factor activity than normal mammary epithelial cells. Smith LM, et al. **Cancer Res** 1997 Jul 15; 57(14):3046–54

Expression of tissue factor in tumor stroma correlates with progression to invasive human breast cancer: paracrine regulation by carcinoma cell-derived members of the transforming growth factor beta family. Vrana JA, et al. **Cancer Res** 1996 Nov 1;56(21):5063–70

Expression of estrogen receptors in a normal human breast epithelial cell type with luminal and stem cell characteristics and its neoplastically transformed cell lines. Kang KS, et al. **Carcinogenesis** 1997 Feb;18(2):251–7

Cloning of a novel nucleolar guanosine 5'-triphosphate binding protein autoantigen from a breast tumor. Racevskis J, et al. **Cell Growth Differ** 1996 Feb;7(2):271–80

Microtiter plate immunoenzymometric assay for estrogen receptor. Delage V, et al. **Clin Chem** 1996 Dec; 42(12):1955–60

Chemiluminescence immunoassay for vascular endothelial growth factor (vascular permeability factor) in tumor-tissue homogenates. Schlaeppi JM, et al. **Clin Chem** 1996 Nov;42(11):1777–84

Identification, purification and analysis of a 55 kDa lectin binding glycoprotein present in breast cancer tissue. Streets AJ, et al. **Clin Chim Acta** 1996 Oct 15;254(1):47–61

Breast cancer cells have a high capacity to acidify extracellular milieu by a dual mechanism. Montcourrier P, et al. **Clin Exp Metastasis** 1997 Jul;15(4):382–92

Distribution of estrogen receptor heterogeneity in growing MCF-7 cells measured by quantitative microscopy. Palmari J, et al. **Cytometry** 1997 Jan 1;27(1):26–35

DNA ploidy and pS2 protein expression in breast cancer. Ioakim-Liossi A, et al. **Cytopathology** 1997 Jun;8(3):171–6

Phyllodes tumour: cytologic and histologic presentation of 22 cases, and immunohistochemical demonstration of p53. Shabalova IP, et al. **Cytopathology** 1997 Jun;8(3):177–87

c-erb B-2 and p53 expression in breast cancer fine needle aspirates. Tiniakos DG, et al. **Cytopathology** 1996 Jun; 7(3):178–86

Preoperative assessment of proliferative activity and hormonal receptor status in carcinoma of the breast: a comparison of needle aspiration and needle-core biopsies to the surgical specimen. Railo M, et al. **Diagn Cytopathol** 1996 Sep;15(3):205–10

Immunostaining of estrogen receptor, progesterone receptor, MIB1 antigen, and c-erbB-2 oncoprotein in cytologic specimens: a simplified method with formalin fixation. Suthipintawong C, et al. **Diagn Cytopathol** 1997 Aug; 17(2):127–33

c-erbB-2 expression in FNAB smears and matched surgical specimens of breast cancer. Troncone G, et al. **Diagn Cytopathol** 1996 Mar;14(2):135–9

Elevated expression of retinoic acid receptor-alpha (RAR alpha) in estrogen-receptor-positive breast carcinomas as detected by immunohistochemistry. Han QX, et al. **Diagn Mol Pathol** 1997 Feb;6(1):42–8

Lactadherin (formerly BA46), a membrane-associated glycoprotein expressed in human milk and breast carcinomas, promotes Arg-Gly-Asp (RGD)-dependent cell adhesion. Taylor MR, et al. **DNA Cell Biol** 1997 Jul; 16(7):861–9

Analysis of polypeptide expression in benign and malignant human breast lesions. Franzén B, et al. **Electrophoresis** 1997 Mar–Apr;18(3–4):582–7

Two-dimensional electrophoretic analysis of human breast carcinoma proteins: mapping of proteins that bind to the SH3 domain of mixed lineage kinase MLK2. Rasmussen RK, et al. **Electrophoresis** 1997 Mar–Apr;18(3–4):588–98

Prognostic value of immunohistochemically detected CD44 isoforms CD44v5, CD44v6 and CD44v7–8 in human breast cancer. Tempfer C, et al. **Eur J Cancer** 1996 Oct; 32A(11):2023–5

Comparison of formalin, ethanol, and Histochoice fixation on the PCR amplification from paraffin-embedded breast cancer tissue. Giannella C, et al. **Eur J Clin Chem Clin Biochem** 1997 Aug;35(8):633–5

Immunohistochemical detection of oestrogen receptors in ductal carcinoma in situ of the breast. Karayiannakis AJ, et al. **Eur J Surg Oncol** 1996 Dec;22(6):578–82

Quantitation of vascular endothelial growth factor mRNA levels in human breast tumors and metastatic lymph nodes. Wright PS, et al. **Exp Mol Pathol** 1997 Feb;64(1):41–51

Nuclear grade in invasive ductal breast carcinoma. Comparative study on nuclear grade and morphometric parameters, hormonal receptor status, flow cytometric analysis and lectin histochemistry. Jonjić N, et al. **Gen Diagn Pathol** 1996 Oct;142(2):83–8

Unique alpha 2, 8-polysialylated glycoproteins in breast cancer and leukemia cells. Marterstеck CM, et al. **Glycobiology** 1996 Apr;6(3):289–301

Cytokeratin demonstration in thick breast tissue slices. Davies JD, et al. **Histochem J** 1997 May;29(5):409–12

Medullary breast carcinoma vs. poorly differentiated ductal carcinoma: an immunohistochemical study with keratin 19 and oestrogen receptor staining. Jensen ML, et al. **Histopathology** 1996 Sep;29(3):241–5

The predictive power of semiquantitative immunohistochemical assessment of p53 and c-erb B-2 in lymph node-negative breast cancer. O'Malley FP, et al. **Hum Pathol** 1996 Sep;27(9):955–63

Cathepsin D versus other prognostic factors in breast cancer. Results and controversies of a multicenter study on 2575 cases. Pelizzola D, et al. **Int J Biol Markers** 1996 Jul–Sep; 11(3):139–47

Steroid receptor measurement in breast cancers: comparison between ligand binding and enzyme-immunoassay in cytosolic and nuclear extracts. Luqmani YA, et al. **Int J Cancer** 1997 May 16;71(4):526–38

Quantitative analysis of p185(HER-2/neu) protein in breast cancer and its association with other prognostic factors. Valerón PF, et al. **Int J Cancer** 1997 Apr 22;74(2):175–9

Comparison of O-linked carbohydrate chains in MUC-1 mucin from normal breast epithelial cell lines and breast carcinoma cell lines. Demonstration of simpler and fewer glycan chains in tumor cells. Lloyd KO, et al. **J Biol Chem** 1996 Dec 27;271(52):33325–34

Prognostic value of epidermal growth factor expression in breast cancer. Pirinen R, et al. **J Cancer Res Clin Oncol** 1997;123(1):63–8

Nuclear matrix proteins in well and poorly differentiated human breast cancer cell lines. Samuel SK, et al. **J Cell Biochem** 1997 Jul 1;66(1):9–15

Characterization of a novel amphiregulin-related molecule in 12-O-tetradecanoylphorbol-13-acetate-treated breast cancer cells. Martinez-Lacaci I, et al. **J Cell Physiol** 1996 Dec;169(3):497–508

Fatty acid composition of adipose tissue, an indication of dietary fatty acids, and breast cancer prognosis. Petrek JA, et al. **J Clin Oncol** 1997 Apr;15(4):1377–84

Breast cancer: relevance of estrogen receptor determination at relapse [letter; comment] Spataro V, et al. **J Clin Oncol** 1997 Feb;15(2):862. Comment on: J Clin Oncol 1996 Sep;14(9):2584–9.

Immunohistochemical detection of c-erbB-2 oncoprotein in patients with breast cancer. Chariyalertsak S, et al. **J Med Assoc Thai** 1996 Nov;79(11):715–21

Cytosol cathepsin D in Thai women with breast cancer. Chearskul S, et al. **J Med Assoc Thai** 1996 Oct; 79(10):654–60

Prognostic significance of vascular endothelial growth factor protein in node-negative breast carcinoma. Gasparini G, et al. **J Natl Cancer Inst** 1997 Jan 15;89(2):139–47

Re: loss of tumor marker-immunostaining intensity on stored paraffin slides of breast cancer [letter; comment] Manne U, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):585–6. Comment on: J Natl Cancer Inst 1996 Aug 7;88(15):1015–6. Comment on: J Natl Cancer Inst 1996 Aug 7;88(15):1054–9.

Expression of p53, glutathione S-transferase-pi, and Bcl-2 proteins and benefit from adjuvant radiotherapy in breast cancer [see comments] Silvestrini R, et al. **J Natl Cancer Inst** 1997 May 7;89(9):639–45. Comment in: J Natl Cancer Inst 1997 May 7;89(9):605–7.

Differentiation pathways in primary invasive breast carcinoma as suggested by intermediate filament and biopathological marker expression. Santini D, et al. **J Pathol** 1996 Aug;179(4):386–91

Histologic grade and p53 immunoreaction as indicators of early recurrence of node-negative breast cancer. Iwaya K, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):6–12

Melatonin in human breast cancer tissue: association with nuclear grade and estrogen receptor status. Maestroni GJ, et al. **Lab Invest** 1996 Oct;75(4):557–61

Anti-melanoma monoclonal antibody HMB-45 on enhanced chemiluminescence-western blotting recognizes a 30–35 kDa melanosome-associated sialated glycoprotein. Chiamenti AM, et al. **Melanoma Res** 1996 Aug;6(4):291–8

Surfactant proteins and thyroid transcription factor-1 in pulmonary and breast carcinomas. Bejarano PA, et al. **Mod Pathol** 1996 Apr;9(4):445–52

Comparison of quantitative and semiquantitative methods of assessing MIB-1 with the S-phase fraction in breast carcinoma. MacGrogan G, et al. **Mod Pathol** 1997 Aug; 10(8):769–76

Clinicopathologic analysis of bcl-2 immunostaining in breast carcinoma. Visscher DW, et al. **Mod Pathol** 1996 Jun; 9(6):642–6

Phylloid breast tumors and three steroid hormone receptors. Lang BA, et al. **Neoplasma** 1997;44(1):53–7

Estrogenic and antiproliferative properties of genistein and other flavonoids in human breast cancer cells in vitro. Zava DT, et al. **Nutr Cancer** 1997;27(1):31–40

Tubular adenoma of the breast: an immunohistochemical study of ten cases. Maiorano E, et al. **Pathol Res Pract** 1995 Dec;191(12):1222–30

Proliferative activity in breast carcinoma evaluated by BrdU and PCNA. Correlation with expression of p53, c-erbB-2, estrogen receptor and P-glycoprotein. Moriki T, et al. **Pathol Res Pract** 1995 Nov;191(11):1122–32

Comparison of two monoclonal antibodies for the detection of estrogen receptors in primary breast carcinomas. Nedergaard L, et al. **Pathol Res Pract** 1996 Oct; 192(10):983–8

Evidence for functional beta-adrenoceptor subtypes in CG-5 breast cancer cell. Badino GR, et al. **Pharmacol Res** 1996 Apr–May;33(4–5):255–60

Significance of the expression of hormone receptors and of p53 protein in breast carcinomas. Roşianu A, et al. **Rom J Morphol Embryol** 1996 Jan–Jun;42(1–2):63–71

Effectiveness of an adriamycin immunoconjugate that recognizes the C-erbB-2 product on breast cancer cell lines. Jinno H, et al. **Surg Today** 1996;26(7):501–7

Lack of prognostic value of p53 protein expression in node-negative breast cancer. Bianchi S, et al. **Tumori** 1997 May–Jun;83(3):669–72

Relationship between cathepsin-D and other prognostic factors in human breast cancer. Glikman P, et al. **Tumori** 1997 May–Jun;83(3):685–8

Immunoreactive p53 and metallothionein expression in duct carcinoma in situ of the breast. No correlation. Douglas-Jones AG, et al. **Virchows Arch** 1997 May; 430(5):373–9

[Prognostic value of quantitative DNA analysis, expressed in integrated optical density, in a series of 415 T1–T2, N0N1, M0 UICC breast cancers] Bolla M, et al. **Bull Cancer** 1996 Sep;83(9):687–92 (Eng. Abstr.) **(Fre)**

[Value of detection of hormone receptors by biochemical and immunochemical methods in therapeutic decision for breast cancer] Goussard J. **Bull Cancer** 1996 Dec; 83(12):1031–6 (Eng. Abstr.) **(Fre)**

[A comparative study of hormone receptors in breast cancer with quantitative immunocytochemistry and biochemistry] Marcot I, et al. **Bull Cancer** 1997 Jun;84(6):613–8 (27 ref.) (Eng. Abstr.) **(Fre)**

[Validation of tissue parameters: criteria proposed by the EORTC Receptor and Biomarker Study Group and the group of tissular and molecular Biopathology (FNCLCC and SFBC): 1996 assessment] Spyratos F. **Bull Cancer** 1996 Dec;83(12):1027–8 **(Fre)**

[Contribution of the topographical analysis to quantitative microscopy in cultured cell systems: application to the evaluation of hormone therapy] Wallet F, et al. **Bull Cancer** 1997 Jun;84(6):589–95 (Eng. Abstr.) **(Fre)**

[Dna synthesis and expression of steroid receptors in cells of human breast carcinoma] Simone G, et al. **Pathologica** 1996 Apr;88(2):111–6 (Eng. Abstr.) **(Ita)**

[Determination of intratumoral estrone (E1) and estradiol (E2) in primary breast cancer tissues by sensitive HPLC-RIA] Nagaya N, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):329–36 (Eng. Abstr.) **(Jpn)**

[Immunohistochemical study of oncogene c-erbb-2 expression and extracellular matrix proteins in breast cancer (various mechanisms of invasion)] Pozharisskiĭ KM, et al. **Arkh Patol** 1997 Jul–Aug;59(4):19–25 (Eng. Abstr.) **(Rus)**

[Immunohistochemical detection of bcl-2 and MIB-1/Ki-67 in breast cancer: retrospective analysis of 238 cases] Sundlad AS, et al. **Medicina (B Aires)** 1996;56(3):252–8 (Eng. Abstr.) **(Spa)**

BREAST NEOPLASMS

CLASSIFICATION

Breast carcinoma. Correlations between visual diagnostic criteria for histologic grading and features of image analysis. Tuczek HV, et al. **Anal Quant Cytol Histol** 1996 Dec;18(6):481–93

Prognosis of radically operated breast carcinoma patients. A retrospective study of 167 consecutive patients with emphasis on histopathological grading, reproducibility and mean nuclear area. Raabe NK, et al. **APMIS** 1997 May; 105(5):363–70

Validation of existing and development of new prognostic classification schemes in node negative breast cancer. German Breast Cancer Study Group. Sauerbrei W, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):149–63

Nuclear grading and flow cytometric DNA pattern in fine-needle aspirates of primary breast cancer. Bozzetti C, et al. **Diagn Cytopathol** 1996 Aug;15(2):116–20

Poorly differentiated myoepithelial cell rich carcinoma of the breast. Damiani S, et al. **Histopathology** 1997 Jun; 30(6):542–8

A critical appraisal of six modern classifications of ductal carcinoma in situ of the breast (DCIS): correlation with grade of associated invasive carcinoma. Douglas-Jones AG, et al. **Histopathology** 1996 Nov;29(5):397–409

Comparison of cytomorphological and architectural heterogeneity in mammographically-detected ductal carcinoma in situ. Harrison M, et al. **Histopathology** 1996 May;28(5):445–50

Classification of ductal carcinoma in situ: striving for clinical relevance in the era of breast conserving therapy [editorial; comment] Schnitt SJ, et al. **Hum Pathol** 1997 Aug; 28(8):877–80. Comment on: Hum Pathol 1997 Aug;28(8):967–73. Comment on: Hum Pathol 1997 Aug;28(8):974–9.

Comment on "Quantitative classification of breast tumors in digitized mammograms" [Med. Phys. 23, 1337–1345 (1996)] [letter; comment] Nishikawa RM. **Med Phys** 1997 Feb; 24(2):313, 315. Comment on: Med Phys 1996 Aug;23(8):1337–45.

Quantitative classification of breast tumors in digitized mammograms [see comments] Pohlman S, et al. **Med Phys** 1996 Aug;23(8):1337–45. Comment in: Med Phys 1997 Feb;24(2):313, 315.

Computerized classification of malignant and benign microcalcifications on mammograms: texture analysis using an artificial neural network. Chan HP, et al. **Phys Med Biol** 1997 Mar;42(3):549–67

Computer-aided classification of breast cancer nuclei. Schnorrenberg F, et al. **Technol Health Care** 1996 Aug; 4(2):147–61

COMPLICATIONS

Severe tetanus in a patient with ulcerating inflammatory breast carcinoma. A case report and review of management. Toh HC, et al. **Acta Oncol** 1997;36(1):94–6 (22 ref.)

The thyroid and breast cancer: a significant association? [editorial] Smyth PP. **Ann Med** 1997 Jun;29(3):189–91

Osteoporosis prevention and treatment: its relevance to breast cancer patients. Hodsman AB. **Can J Oncol** 1995 Dec;5 Suppl 1:28–32 (33 ref.)

Association of Stein–Leventhal syndrome with the incidence of postmenopausal breast carcinoma in a large prospective study of women in Iowa. Anderson KE, et al. **Cancer** 1997 Feb 1;79(3):494–9

Metastatic breast cancer presenting as fever, rash, and arthritis. Drenth JP, et al. **Cancer** 1995 Apr 1;75(7):1608–11

Association of Stein–Leventhal syndrome with the incidence of postmenopausal breast carcinoma in a large prospective study of women in Iowa [letter] Parazzini F, et al. **Cancer** 1997 Oct 1;80(7):1360–2

Association of hereditary angioedema and hereditary breast cancer. Christie DR, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):159–62

Use of bisphosphonates in cancer patients. Body JJ, et al. **Cancer Treat Rev** 1996 Jul;22(4):265–87 (97 ref.)

Hormone replacement therapy after breast cancer: a review. Eden JA, et al. **Cancer Treat Rev** 1996 Sep;22(5):335–43 (46 ref.)

Granulomatous hepatitis and necrotizing splenitis due to Bartonella henselae in a patient with cancer: case report and review of hepatosplenic manifestations of bartonella infection. Liston TE, et al. **Clin Infect Dis** 1996 Jun; 22(6):951–7 (45 ref.)

Carcinoma of the breast in a sickle cell disease patient: case report. Adebamowo CA, et al. **East Afr Med J** 1996 Jul; 73(7):489–90

Breast cancer and HIV infection: two case reports [letter] Cuvier C, et al. **Eur J Cancer** 1997 Mar;33(3):507–8

Obesity, social class and Western diet: a link to breast cancer prognosis. Stoll BA. **Eur J Cancer** 1996 Jul;32A(8):1293–5 (56 ref.)

Unusual clonal chromosomal evolution in a breast carcinoma and its lymph node metastasis in a patient with Down syndrome. Bernardino J, et al. **Genes Chromosomes Cancer** 1997 Jul;19(3):195–9

Progressive systemic sclerosis with breast cancer. Lehl SS, et al. **J Assoc Physicians India** 1996 May;44(5):350

Relationship between breast cancer and thyroid disease: relevance of autoimmune thyroid disorders in breast malignancy. Giani C, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):990–4

Coumarin-induced hepatotoxicity [letter] Loprinzi CL, et al. **J Clin Oncol** 1997 Sep;15(9):3167–8

Depressive mood disorders in patients with operable breast cancer. Aragona M, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):111–8

Paradoxical effect of cytotoxic chemotherapy on anemia in cancer patients with beta-thalassemia minor [letter] Del Mastro L, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):455–6

Malignant pericardial effusion in breast cancer: terminal event or treatable complication? Swanepoel E, et al. **J Surg Oncol** 1997 Apr;64(4):308–11

Renal function in high dose chemotherapy and autologous hematopoietic cell support treatment for breast cancer. Merouani A, et al. **Kidney Int** 1996 Sep;50(3):1026–31

Graft-versus-tumour and graft-versus-leukaemia effect in patient with concurrent breast cancer and acute myelocytic leukaemia [letter] Ben-Yosef R, et al. **Lancet** 1996 Nov 2;348(9036):1242–3

Coronary embolization in a woman with advanced breast cancer [letter] Watzinger N, et al. **N Engl J Med** 1997 Apr 10;336(15):1104–5

Breast carcinoma with myeloid metaplasia--a case report. Setsu Y, et al. **Pathol Res Pract** 1997;193(3):219–22; discussion 223–4

Paraneoplastic palmar fasciitis and achalasia-like esophageal disorder in a patient with breast cancer [letter] Dhote R, et al. **Rev Rhum Engl Ed** 1997 May;64(5):350–2

Long-term sequelae of breast cancer surgery. Paci E, et al. **Tumori** 1996 Jul–Aug;82(4):321–4

[Sarcoidosis occurring after breast cancer (letter)] Cutuli B, et al. **Presse Med** 1997 Jul 12;26(24):1144–5 **(Fre)**

[Breast cancer disclosed by palmar fasciitis (letter)] Fouchard-Hubert I, et al. **Rev Med Interne** 1996; 17(10):855–6 **(Fre)**

[Lymphedema after breast carcinoma. A study of 5868 cases] Schünemann H, et al. **Dtsch Med Wochenschr** 1997 Apr 25;122(17):536–41 (Eng. Abstr.) **(Ger)**

[Rapidly progressive ascites (clinical conference)] Hadengue A, et al. **Schweiz Med Wochenschr** 1996 Nov 2; 126(44):1891–7 (Eng. Abstr.) **(Ger)**

[Hematological paraneoplasias in breast cancer] Kozlov DV, et al. **Klin Med (Mosk)** 1997;75(1):14–6 (41 ref.) **(Rus)**

DIAGNOSIS

Intermediate filament expression of ductal carcinoma cells in fine needle aspirates of the breast. Heatley M, et al. **Acta Cytol** 1997 May–Jun;41(3):717–20

Breast tumor diagnosis in cytologic aspirates using monoclonal antibodies to keratin 8 and 17. Kirjushkina MS, et al. **Acta Cytol** 1997 Mar–Apr;41(2):307–12

Fine needle aspiration cytology of intramammary lymph nodes in an HIV-1-positive patient. A case report. La Rosa FG, et al. **Acta Cytol** 1997 May–Jun;41(3):849–51

Adult embryonal rhabdomyosarcoma metastatic to the breast and diagnosed by fine needle aspiration. A case report. Lai CR, et al. **Acta Cytol** 1997 May–Jun;41(3):845–8

Phyllodes tumor. Fine needle aspiration cytology of eight cases. Shabb NS. **Acta Cytol** 1997 Mar–Apr;41(2):321–6

Breast cancer diagnosis by fine needle aspiration and excisional biopsy. Recurrence and survival. Taxin A, et al. **Acta Cytol** 1997 Mar–Apr;41(2):302–6

Benign pairs. A useful discriminating feature in fine needle aspirates of the breast. Yu GH, et al. **Acta Cytol** 1997 May–Jun;41(3):721–6

Evaluation of the general practice program of women education for breast self-examination. Katić M, et al. **Acta Med Croatica** 1996;50(4–5):185–91

Preoperative fine needle aspiration from human breast cancer is a valuable sampling material for progesterone receptor and cytometric DNA analysis. Fernö M, et al. **Acta Oncol** 1996;35 Suppl 8:19–25

Diagnostic accuracy of mammography and contrast-enhanced MR imaging in 238 histologically verified breast lesions. Boné B, et al. **Acta Radiol** 1997 Jul; 38(4 Pt 1):489–96

MR imaging of primary non-Hodgkin's breast lymphoma. A case report. Mussurakis S, et al. **Acta Radiol** 1997 Jan; 38(1):104–7 (14 ref.)

Optical imaging of breast tumor by means of continuous waves. Nioka S, et al. **Adv Exp Med Biol** 1997;411:227–32

Diagnosis of breast tumors after breast reduction. Beer GM, et al. **Aesthetic Plast Surg** 1996 Sep–Oct;20(5):391–7

The variability of fibroadenoma in contrast-enhanced dynamic MR mammography. Brinck U, et al. **AJR Am J Roentgenol** 1997 May;168(5):1331–4

Juvenile papillomatosis of the breast (Swiss cheese disease) [letter] Hidalgo F, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):912

Bilateral angiosarcoma of the breast on MR imaging. Marchant LK, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1009–10

Do mammography, sonography, and MR mammography have a diagnostic benefit compared with mammography and sonography? Müller-Schimpfle M, et al. **AJR Am J Roentgenol** 1997 May;168(5):1323–9

Re: Detection with MR imaging of residual tumor in the breast soon after surgery [letter; comment] Orel S. **AJR Am J Roentgenol** 1997 Sep;169(3):909–10. Comment on: AJR Am J Roentgenol 1997 Feb;168(2):485–8.

MR imaging in the management before surgery of lobular carcinoma of the breast: correlation with pathology. Rodenko GN, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1415–9

Clinical value of CA 15-3, mucin-like carcinoma-associated antigen, tumor polypeptide antigen, and carcinoembryonic antigen in monitoring early breast cancer patients. Pectasides D, et al. **Am J Clin Oncol** 1996 Oct;19(5):459–64

CD31/PECAM automated and quantitative immunocytochemical assays in breast carcinomas: correlation with patient follow-up. Charpin C, et al. **Am J Clin Pathol** 1997 May;107(5):534–41

Leiomyosarcoma of the female breast: report of two new cases and a review of the literature. Falconieri G, et al. **Am J Clin Pathol** 1997 Jul;108(1):19–25 (28 ref.)

Malignant hematopoietic breast tumors. Lin Y, et al. **Am J Clin Pathol** 1997 Feb;107(2):177–86

In search of specimen adequacy in fine-needle aspirates of nonpalpable breast lesions [see comments] Rubenchik I, et al. **Am J Clin Pathol** 1997 Jul;108(1):13–8. Comment in: Am J Clin Pathol 1997 Jul;108(1):1–3.

Specimen adequacy in breast fine-needle aspiration biopsy [editorial; comment] Schmidt WA, et al. **Am J Clin Pathol** 1997 Jul;108(1):1–3. Comment on: Am J Clin Pathol 1997 Jul;108(1):13–8.

Image-guided breast biopsy. Burns RP. **Am J Surg** 1997 Jan; 173(1):9–11; discussion 12–3 (16 ref.)

Surveillance in the management of the cancer patient with special reference to breast and colon cancer. Gardner B. **Am J Surg** 1997 Feb;173(2):141–4

A comparison of Medicare reimbursement and results for various imaging-guided breast biopsy techniques. Howisey RL, et al. **Am J Surg** 1997 May;173(5):395–8

The milk rejection sign: a natural tumor marker. Saber A, et al. **Am Surg** 1996 Dec;62(12):998–9

Raman spectra of breast tissue [news] Henry CM. **Anal Chem** 1996 Dec 1;68(23):718A–719A

Cytologic nuclear grading of fine needle cytopunctures of breast carcinoma. Comparison with histologic nuclear grading and image cytometric data. Briffod M, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):114–22

An interactive decision support system for breast fine needle aspiration cytology. Hamilton PW, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):185–90

Observer variation in AgNOR counts in neoplastic breast lesions. Srivastava A, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):241–4

Re: Needle localization breast biopsy with reduction mammaplasty [letter; comment] Kayar R. **Ann Plast Surg** 1996 Sep;37(3):341–2. Comment on: Ann Plast Surg 1995 Oct;35(4):413–5.

Accuracy of general practitioner referrals to a breast clinic [letter; comment] Dworkin MJ, et al. **Ann R Coll Surg Engl** 1996 Nov;78(6):559. Comment on: Ann R Coll Surg Engl 1996 May;78(3 (Pt 1)):203–5.

A survey of the management of breast cancer in England and Wales [letter; comment] Menon NK. **Ann R Coll Surg Engl** 1996 Nov;78(6):558–9. Comment on: Ann R Coll Surg Engl 1996 May;78(3 (Pt 1)):197–202.

Ultrasound-guided biopsy of nonpalpable breast masses by surgeons. Staren ED. **Ann Surg Oncol** 1996 Sep;3(5):476–82

Surgical biopsy findings in patients with atypical hyperplasia diagnosed by stereotaxic core needle biopsy. Tocino I, et al. **Ann Surg Oncol** 1996 Sep;3(5):483–8

Detection of rare human breast cancer cells. Comparison of an immunomagnetic separation method with immunocytochemistry and RT-PCR. Berois N, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2639–46

Serum tumour markers CEA, AFP, CA 15-3, TPS and Neu in diagnosis of breast cancer. Eskelinen M, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1231–4

Prognostic significance of apoptosis related proteins Bcl-2 and Bax in node-negative breast cancer patients. Kapranos N, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2499–505

The evaluation of combined scintimammography and tumor markers in breast cancer patients. Mangkharak J, et al. **Anticancer Res** 1997 May–Jun;17(3B):1611–4

Comparison of bone scanning and CA 15-3 serum concentration in the follow-up of breast cancer. Montravers F, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1683–6

Evaluation of the IMMULITE BR-MA and CEA assays and comparison with immunoradiometric assays for CA15-3 and CEA in breast cancer. Murray A, et al. **Anticancer Res** 1997 May–Jun;17(3C):1945–9

Prediction of nodal metastasis and prognosis in breast cancer: a neural model. Naguib RN, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2735–41

Detection of rare circulating breast cancer cells by filtration cytometry and identification by DNA content: sensitivity in an experimental model. Rostagno P, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2481–5

Epidermal growth factor receptor-immunohistochemical detection and clinical significance for treatment of primary breast cancer. Schroeder W, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2799–802

Accuracy in mammographically directed breast biopsies: communication is key [editorial] Bleiweiss IJ, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):357–8

Epithelioid cells in myoid hamartoma of the breast: a potential diagnostic pitfall for core biopsies [see comments] Garfein CF, et al. **Arch Pathol Lab Med** 1996 Jul; 120(7):676–80. Comment in: Arch Pathol Lab Med 1997 Apr;121(4):354–5.

Mammographically directed breast biopsies: a College of

American Pathologists Q-Probes study of clinical physician expectations and of specimen handling and reporting characteristics in 434 institutions. Nakhleh RE, et al. **Arch Pathol Lab Med** 1997 Jan;121(1):11–8

BRCA1: genetic testing and hereditary breast and ovarian cancer. Ross DW. **Arch Pathol Lab Med** 1997 Jul; 121(7):754–5

Usefulness of ultrasound-guided, fine-needle aspiration biopsy for palpable breast tumors. Hatada T, et al. **Arch Surg** 1996 Oct;131(10):1095–8

Desmoid tumor (fibromatosis) of the breast. A clinician's dilemma—a case report and review. Ng WH, et al. **Arch Surg** 1997 Apr;132(4):444–6 (22 ref.)

Fuzzy logic in computer-aided breast cancer diagnosis: analysis of lobulation. Kovalerchuk B, et al. **Artif Intell Med** 1997 Sep;11(1):75–85

Extracting rules from pruned networks for breast cancer diagnosis. Setiono R. **Artif Intell Med** 1996 Feb;8(1):37–51

Breast self examination [letter] Brett TD. **Aust Fam Physician** 1997 Jun;26(6):762

Ductal carcinoma in situ. Part I: Definition and diagnosis. Delaney G, et al. **Aust N Z J Surg** 1997 Feb-Mar; 67(2–3):81–93 (149 ref.)

Breast cancer: current issues in diagnosis and treatment [see comments] Furnival CM. **Aust N Z J Surg** 1997 Jan; 67(1):47–58 (55 ref.). Comment in: Aust N Z J Surg 1997 Jul;67(7):476.

Is parathyroid hormone-related protein a sensitive serum marker in advanced breast cancer? Pyke CM, et al. **Aust N Z J Surg** 1997 May;67(5):256–9

Breast MRI: early experience with a 3-D fat-suppressed gradient echo sequence in the evaluation of breast lesions. Holden A, et al. **Australas Radiol** 1996 Nov;40(4):391–7

Radial scar and tubular carcinoma of the breast. Tükel S, et al. **Australas Radiol** 1997 May;41(2):190–2

Value of magnetic resonance imaging of the breast as a screening tool remains uncertain [letter] Potterton AJ, et al. **BMJ** 1997 Feb 15;314(7079):521

Sensitivity, specificity and predictive values of breast imaging in the detection of cancer. Duijm LE, et al. **Br J Cancer** 1997;76(3):377–81

Utility of C-erbB-2 in tissue and in serum in the early diagnosis of recurrence in breast cancer patients: comparison with carcinoembryonic antigen and CA 15.3. Molina R, et al. **Br J Cancer** 1996 Oct;74(7):1126–31

Nipple aspirate fluid: a promising non-invasive method to identify cellular markers of breast cancer risk. Sauter ER, et al. **Br J Cancer** 1997;76(4):494–501

Ultrasound assessment of residual abnormalities following primary chemotherapy for breast cancer. Seymour MT, et al. **Br J Cancer** 1997;76(3):371–6

Breast reduction and carcinoma-in-situ [letter] Villafane O, et al. **Br J Plast Surg** 1996 Oct;49(7):499

Case report: MR imaging of juvenile papillomatosis of the breast. Mussurakis S, et al. **Br J Radiol** 1996 Sep; 69(825):867–70

Dynamic MR imaging of invasive breast cancer: correlation with tumour grade and other histological factors. Mussurakis S, et al. **Br J Radiol** 1997 May;70(833):446–51

Observer variability in the interpretation of contrast enhanced MRI of the breast. Mussurakis S, et al. **Br J Radiol** 1996 Nov;69(827):1009–16

MRI of breast cancer: influence of chemotherapy on sensitivity. Rieber A, et al. **Br J Radiol** 1997 May; 70(833):452–8

Diagnostic role of cytology in screen-detected breast cancer [letter; comment] McKee G, et al. **Br J Surg** 1996 Dec; 83(12):1797–8. Comment on: Br J Surg 1996 Jun;83(6):816–9.

Comparison of magnetic resonance imaging and conventional triple assessment in locally recurrent breast cancer. Mumtaz H, et al. **Br J Surg** 1997 Aug;84(8):1147–51

Conservative management of fibroadenoma of the breast [letter] Yelland A, et al. **Br J Surg** 1996 Nov;83(11):1653

Prognostic significance of c-erb-B2 amplification in fine-needle biopsies of breast cancer patients not operated at diagnosis. Lönn U, et al. **Breast Cancer Res Treat** 1996; 39(2):213–20

Prognostic factors for metachronous contralateral breast cancer: a comparison of the linear Cox regression model and its artificial neural network extension. Mariani L, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):167–78

Intraoperative assessment of axillary lymph node metastases in operable breast cancer. Noguchi M, et al. **Breast Cancer Res Treat** 1996;40(2):179–85

Diagnosis of axillary lymph node metastases in patients with breast cancer. Noguchi M, et al. **Breast Cancer Res Treat** 1996;40(3):283–93 (97 ref.)

Demonstration of silver-stained nucleolar organizer region associated proteins (AgNORs) after wet autoclave pretreatment in breast carcinoma: correlation to tumor stage and long-term survival. Ofner D, et al. **Breast Cancer Res Treat** 1996;39(2):165–76

Age-specific sensitivities of mammographic screening for breast cancer. Peer PG, et al. **Breast Cancer Res Treat** 1996; 38(2):153–60

A retrospective comparison of detection and treatment of breast cancer in young and elderly patients. Repetto L, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):27–31

Seasonal trends in the self-detection of breast cancer: indications from the Cancer and Steroid Hormone (CASH) study. Ross JA, et al. **Breast Cancer Res Treat** 1997 Jan; 42(2):187–92

MRI in patients with axillary metastases of occult breast carcinoma. Tilanus-Linthorst MM, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):179–82

Value of CA 15.3 in breast cancer and comparison with CEA and TPA: a study of specificity in disease-free follow-up patients and sensitivity in patients at diagnosis of the first metastasis. Vizcarra E, et al. **Breast Cancer Res Treat** 1996; 37(3):209–16

Magnetic resonance galactography for a patient with nipple discharge. Yoshimoto M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):87–90

Breast cancer stage at diagnosis: Caucasians versus Hispanics. Zaloznik AJ. **Breast Cancer Res Treat** 1997 Jan;42(2):121–4

Tumor-related prognostic factors for breast cancer. Donegan WL. **CA Cancer J Clin** 1997 Jan-Feb;47(1):28–51 (174 ref.)

Relation between clinical and mammographic diagnosis of breast problems and the cancer/biopsy rate. Sterns EE. **Can J Surg** 1996 Apr;39(2):128–32

Breast-feeding can hide breast cancer [letter; comment] LeBourdais E. **Can Med Assoc J** 1996 Dec 1;155(11):1550 . Comment on: Can Med Assoc J 1996 Oct 1;155(7):861.

Breast pain causes noncompliance with mammography and self-examination [letter; comment] Porter-Steele N. **Can Med Assoc J** 1996 Sep 15;155(6):632-3. Comment on: Can Med Assoc J 1996 May 1;154(9):1353–5.

Survival of women ages 40–49 years with breast carcinoma according to method of detection. McPherson CP, et al. **Cancer** 1997 May 15;79(10):1923–32

Breast carcinoma detection with a combination of radiolabeled monoclonal antibodies. Promising results from immunohistochemistry studies. Mangili F, et al. **Cancer** 1996 Dec 1;78(11):2334–9

Determinants of breast cancer detection among Wisconsin (United States) women, 1988–90 [comment] Nasseri K. **Cancer Causes Control** 1996 Nov;7(6):626–7. Comment on: Cancer Causes Control 1995 Mar;6(2):103–11.

Attitude of women towards early cancer detection and estimation of the compliance to a screening program for cervix and breast cancer. Bonelli L, et al. **Cancer Detect Prev** 1996;20(4):342–52

Factors influencing effect of mammography screening in a university workplace. Champion VL, et al. **Cancer Detect Prev** 1997;21(3):231–41

Immunohistochemical markers of tumor prognosis in breast cancer in Egypt. Helal T, et al. **Cancer Detect Prev** 1997; 21(3):201–6

Mass screening programs for breast cancer in France—average values of assessment criteria. Lacour A, et al. **Cancer Detect Prev** 1997;21(3):221–30

Trends in mammography use and their relation to physician and other factors. Lane DS, et al. **Cancer Detect Prev** 1996; 20(4):332–41

The role of past mammography and future intentions in screening mammography usage. Mah Z, et al. **Cancer Detect Prev** 1997;21(3):213–20

Relation of prediagnostic serum estrogen and androgen levels to breast cancer risk. Dorgan JF, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):533–9

Urinary estrogen metabolites and breast cancer: a case-control study. Kabat GC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):505–9

Histologic markers and long-term prognosis in breast cancer [comment] Burtness BA. **Cancer J Sci Am** 1997 Jul-Aug; 3(4):211–2. Comment on: Cancer J Sci Am 1997 Jul-Aug;3(4):224–9.

Advances in screening for breast cancer. Moss SM. **Cancer Treat Res** 1996;86:77–91 (59 ref.)

Diagnostic value of molecular forms of prostate-specific antigen for female breast cancer. Melegos DN, et al. **Clin Biochem** 1996 Jun;29(3):193–200

Risk assessment and presymptomatic molecular diagnosis in hereditary breast cancer. Merajver SD, et al. **Clin Lab Med** 1996 Mar;16(1):139–67

Case report: MR imaging of fat necrosis of the breast associated with lipid cyst formation following conservative treatment for breast carcinoma. Coady AM, et al. **Clin Radiol** 1996 Nov;51(11):815–7

Keeping abreast of magnetic resonance: developments in breast cancer imaging [editorial] Hall-Craggs MA, et al. **Clin Radiol** 1997 Apr;52(4):253–5

Clinical audit and standard setting for symptomatic breast imaging in South Thames region. Mills P, et al. **Clin Radiol** 1997 Jan;52(1):55–8

Dynamic MR imaging of the breast combined with analysis of contrast agent kinetics in the differentiation of primary breast tumours. Mussurakis S, et al. **Clin Radiol** 1997 Jul; 52(7):516–26

FPs have vital role in ensuring success of breast cancer screening programs. Cohen L. **CMAJ** 1997 Aug 15; 157(4):442–4

Construction of a Bayesian network for mammographic diagnosis of breast cancer. Kahn CE Jr, et al. **Comput Biol Med** 1997 Jan;27(1):19–29

MRI in breast cancer diagnosis and treatment. Harms SE. **Curr Probl Diagn Radiol** 1996 Nov-Dec;25(6):193–215 (111 ref.)

Audit of 6 years' experience of breast fine needle aspiration (FNA) cytology using the cytospin method; improvement through multidisciplinary clinical audit. Dundas SA, et al. **Cytopathology** 1997 Aug;8(4):230–5

Ringlike structures in fine needle aspirates from the breast. Gupta RK. **Cytopathology** 1996 Oct;7(5):352–6

UK national audit of breast fine needle aspiration cytology in 1990–91: diagnostic criteria. Hunt CM, et al. **Cytopathology** 1996 Oct;7(5):326–32

United Kingdom national audit of breast fine needle aspiration cytology in 1990–91—organization and level of activity. Hunt CM, et al. **Cytopathology** 1996 Oct; 7(5):316–25

Papanicolaou staining of air-dried smears: value in rapid diagnosis. Jones CA. **Cytopathology** 1996 Oct;7(5):333–9

Adenomyoepithelioma of the breast diagnosed by fine needle aspiration (FNA) biopsy; a case report. Pogačnik A, et al. **Cytopathology** 1997 Feb;8(1):45–52

Routine audit of breast fine needle aspiration (FNA) cytology specimens and aspirator inadequate rates. Snead DR, et al. **Cytopathology** 1997 Aug;8(4):236–47

Dermatofibrosarcoma protuberans as a diagnostic pitfall in fine-needle aspiration diagnosis of angiosarcoma of the breast [letter] Kocjan G, et al. **Diagn Cytopathol** 1996 Feb; 14(1):94–5

Adenoid cystic carcinoma of the breast: utility of immunocytochemical study with collagen IV on fine-needle aspiration. Quinodoz IS, et al. **Diagn Cytopathol** 1997 May;16(5):442–5

Malpractice protection: communication of diagnostic uncertainty. Skoumal SM, et al. **Diagn Cytopathol** 1996 Jun; 14(4):385–9 (51 ref.)

High-sensitivity detection of minimal residual breast carcinoma using the polymerase chain reaction and primers for cytokeratin 19. Moscinski LC, et al. **Diagn Mol Pathol** 1996 Sep;5(3):173–80

Free radicals and breast cancer [letter; comment] Malins DC. **Environ Health Perspect** 1996 Nov;104(11):1140. Comment on: Environ Health Perspect 1996 Aug;104(8):821.

Comparison of the accuracy of two tests with a confirmatory procedure limited to positive results. Cheng H, et al. **Epidemiology** 1997 Jan;8(1):104–6

Comments on Adaptation of the Cellscan technique for the SCM test in breast cancer Rahmani et al., Eur. J. Cancer, 32A, no. 10, pp. 1758–1765 1996 [letter] Birindelli S, et al. **Eur J Cancer** 1997 Jul;33(8):1333–5

An improved statistical approach: can it clarify the role of new prognostic factors for breast cancer? Chapman JW, et al. **Eur J Cancer** 1996 Oct;32A(11):1949–56 (33 ref.)

Adaptation of the cellscan technique for the SCM test in breast cancer. Rahmani H, et al. **Eur J Cancer** 1996 Sep; 32A(10):1758–65

Electropotential evaluation as a new technique for diagnosing breast lesions. Faupel M, et al. **Eur J Radiol** 1997 Jan; 24(1):33–8

Contrast-enhanced MRI of the breast: accuracy, value, controversies, solutions. Heywang-Köbrunner SH, et al. **Eur J Radiol** 1997 Feb;24(2):94–108 (73 ref.)

Computed model of gadolinium enhanced MRI of breast disease. Kenney PJ, et al. **Eur J Radiol** 1997 Feb; 24(2):109–19

Tl-201 scintigraphy, mammography and ultrasonography in the evaluation of palpable and nonpalpable breast lesions: a correlative study. Özdemir A, et al. **Eur J Radiol** 1997 Feb;24(2):145–54

Angiosarcoma of the breast: mammographic, sonographic, and pathological findings. Schnarkowski P, et al. **Eur J Radiol** 1997 Jan;24(1):54–6

1st International Congress on MR Mammography. Jena, Germany, 29–31 May 1997. Abstracts. **Eur Radiol** 1997; 7(4):605–24

Prognostic value of contrast-enhanced MR mammography in patients with breast cancer. Fischer U, et al. **Eur Radiol** 1997;7(7):1002–5

Invasive mucinous carcinoma of the breast missed by contrast-enhancing MR imaging of the breast. Fischer U, et al. **Eur Radiol** 1996;6(6):929–31

Paraffin tissue block radiography of nonpalpable lesions with calcifications detected at mammography: 5-year consecutive series of surgically excised cases. Thurfjell E, et al. **Eur Radiol** 1997;7(7):1006–9

Breast health at midlife: guidelines for screening and patient evaluation. Abraham CL, et al. **Geriatrics** 1997 Jun; 52(6):58–60, 63–5; quiz 66

Estrogen replacement therapy in women with prior diagnosis and treatment for breast cancer. Vassilopoulou-Sellin R, et al. **Gynecol Oncol** 1997 Apr;65(1):89–93

Barriers to mammography in a low income, multiethnic clinic population. Gotay CC, et al. **Hawaii Med J** 1996 Aug; 55(8):136–40

Limited value of the NKI/C3-antibody for the differential diagnosis of Paget's disease of the nipple and intra-epidermal malignant melanoma. Biesterfeld S, et al. **Histopathology** 1996 Mar;28(3):269–70

Diagnostic accuracy of stereotactic core biopsy in a mammographic breast cancer screening programme. Dahlstrom JE, et al. **Histopathology** 1996 May;28(5):421–7

Histological precision of stereotactic core biopsy in diagnosis of malignant and premalignant breast lesions. Dahlstrom JE, et al. **Histopathology** 1996 Jun;28(6):537–41

The role of pre-operative diagnosis in breast cancer. Pinder SE, et al. **Histopathology** 1996 Jun;28(6):563–6

Identification of polymorphisms in the p53 gene by denaturing gradient gel blots. Nogueira CP. **Hum Hered** 1997 Jan-Feb;47(1):52–7

Bcl-2 and p53 expression in node-negative breast carcinoma: a study with long-term follow-up. Barbareschi M, et al.

Hum Pathol 1996 Nov;27(11):1149–55

Morphological and biological characteristics of mammogram–detected invasive breast cancer. Moezzi M, et al. **Hum Pathol** 1996 Sep;27(9):944–8

Proliferating cell nuclear antigen immunostaining in breast carcinoma and its relationship to clinical and pathological variables. Agarwal S, et al. **Indian J Pathol Microbiol** 1997 Jan;40(1):11–6

Correlation of the growth fraction, nucleolar organizer region counts and epidermal growth factor receptor with histomorphological prognostic criteria in breast cancer. Gupta GR, et al. **Indian J Pathol Microbiol** 1997 Jan; 40(1):3–10

delta IK17 antigen: a possible early marker of cancer development. Perez S, et al. **Int J Biol Markers** 1996 Oct–Dec;11(4):190–7

CA549 and TPS patterns in the diagnosis and staging of patients with breast carcinoma. Vibert HG, et al. **Int J Biol Markers** 1996 Oct–Dec;11(4):198–202

Detection of metastatic breast cancer by beta–hCG polymerase chain reaction. Hoon DS, et al. **Int J Cancer** 1996 Oct 21;69(5):369–74

"Every defect is a treasure. **Int J Qual Health Care** 1996 Jun;8(3):297–8

Breast cancer imaging—the issues and challenges. Proceedings of an international meeting. Dublin, Ireland, February 5–6, 1997. **Ir J Med Sci** 1997 Apr–Jun;166 Suppl 4:7–32

Delay in diagnosis and treatment of breast cancer: implications for education. Bedell MB, et al. **J Cancer Educ** 1995 Winter;10(4):223–8

Teaching efficacy of a medical education module on genetic testing for cancer. Teague KE, et al. **J Cancer Educ** 1996 Winter;11(4):196–202

The lectin–binding sites for peanut agglutinin in invasive breast ductal carcinomas and their role as a prognostic factor. Mustac E, et al. **J Cancer Res Clin Oncol** 1996; 122(11):693–7

The important prognostic value of Ki–67 expression as determined by image analysis in breast cancer. Pietiläinen T, et al. **J Cancer Res Clin Oncol** 1996;122(11):687–92

Recommended breast cancer surveillance guidelines. American Society of Clinical Oncology. **J Clin Oncol** 1997 May;15(5):2149–56

Use of Truquant BR radioimmunoassay for early detection of breast cancer recurrence in patients with stage II and stage III disease. Chan DW, et al. **J Clin Oncol** 1997 Jun; 15(6):2322–8

Patterns of peripheral enhancement in breast masses: correlation of findings on contrast medium enhanced MRI with histologic features and tumor angiogenesis. Buadu LD, et al. **J Comput Assist Tomogr** 1997 May–Jun; 21(3):421–30

Dynamic MRI of invasive breast cancer: assessment of three region–of–interest analysis methods. Mussurakis S, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):431–8

MRI of histologically confirmed mammary carcinoma: clinical relevance of diagnostic procedures for detection of multifocal or contralateral secondary carcinoma. Rieber A, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):773–9

Value of MR mammography in the detection and exclusion of recurrent breast carcinoma. Rieber A, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):780–4

MRI of the breast in the differential diagnosis of mastitis versus inflammatory carcinoma and follow–up. Rieber A, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):128–32

Transferring technology from the intelligence community to the medical community. Korsun V, et al. **J Digit Imaging** 1997 Aug;10(3 Suppl 1):143

Early diagnosis of breast changes. Risk management and quality of care approach. Harris G, et al. **J Fla Med Assoc** 1996 Aug–Sep;83(7):466–9

The influence of knowledge and attitudes about breast cancer on mammography use among Latinas and Anglo women. Hubbell FA, et al. **J Gen Intern Med** 1997 Aug;12(8):505–8

Lump detection is enhanced in silicone breast models simulating postmenopausal breast tissue. McDermott MM, et al. **J Gen Intern Med** 1996 Feb;11(2):112–4

The clinical challenge of nipple discharge. Taber SW. **J Ky Med Assoc** 1996 Sep;94(9):387–92

Limitations of the keyhole technique for quantitative dynamic contrast–enhanced breast MRI. Bishop JE, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):716–23

Pharmacokinetic analysis of Gd–DTPA enhancement in dynamic three–dimensional MRI of breast lesions. den Boer JA, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):702–15

Application of a quantitative model to differentiate benign from malignant breast lesions detected by dynamic, gadolinium–enhanced MRI. Kelcz F, et al. **J Magn Reson Imaging** 1996 Sep–Oct;6(5):743–52

Segmentation strategies for breast tumors from dynamic MR images. Lucas–Quesada FA, et al. **J Magn Reson Imaging** 1996 Sep–Oct;6(5):753–63

Dynamic 3D–MR mammography: is there a benefit of sophisticated evaluation of enhancement curves for clinical routine? Müller–Schimpfle M, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):236–40

MR lesion detection in a breast cancer population. Obdeijn IM, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):849–54

The accuracy of mammography: a comparison with fine needle aspiration cytology. Charnvises S. **J Med Assoc Thai** 1996 Jan;79(1):27–30

An evaluation of the prevalent round of the breast screening programme in south east Thames, 1988–1993: achievement of quality standards and population impact. Garvican L, et al. **J Med Screen** 1996;3(3):123–8

The Swedish randomised mammography screening trials: analysis of their effect on the breast cancer related excess mortality. Larsson LG, et al. **J Med Screen** 1996; 3(3):129–32

Reliability of underlying incidence rates for estimating the effect and efficiency of screening for breast cancer. Prior P, et al. **J Med Screen** 1996;3(3):119–22

National Institutes of Health Consensus Development Conference Statement: Breast Cancer Screening for Women Ages 40–49, January 21–23, 1997. National Institutes of Health Consensus Development Panel. **J Natl Cancer Inst** 1997 Jul 16;89(14):1015–26 (94 ref.)

Randomized trial of breast self–examination in Shanghai: methodology and preliminary results [see comments] Thomas DB, et al. **J Natl Cancer Inst** 1997 Mar 5; 89(5):355–65. Comment in: J Natl Cancer Inst 1997 Mar 5;89(5):339–40.

New techniques promise improved breast imaging [news] Ziegler J. **J Natl Cancer Inst** 1996 Nov 6;88(21):1518–21

Comparison of technetium–99m–sestamibi scintimammography with contrast–enhanced MRI for diagnosis of breast lesions. Tiling R, et al. **J Nucl Med** 1997 Jan;38(1):58–62

A review of nipple discharge in Chinese women. Cheung KL, et al. **J R Coll Surg Edinb** 1997 Jun;42(3):179–81

A novel diagnostic index for use in the breast clinic. Purasiri P, et al. **J R Coll Surg Edinb** 1996 Feb;41(1):30–4

Sir James Young Simpson Memorial Lecture 1995. Breast cancer prevention: a pathologist's approach. Simpson HW. **J R Coll Surg Edinb** 1996 Dec;41(6):359–70

Metastatic breast carcinoma presenting as endometrial cancer. A case report. Lallas TA, et al. **J Reprod Med** 1997 Feb;42(2):121–3

Preoperative diagnosis of carcinoma of the breast: Is a "cost–cutter" algorithm tenable? Chandawarkar RY, et al. **J Surg Oncol** 1997 Feb;64(2):153–8

Axillary lymphadenectomy: a diagnostic and therapeutic procedure [editorial] Moore MP, et al. **J Surg Oncol** 1997 Sep;66(1):2–6 (42 ref.)

Interval carcinomas of the breast: a group with intermediate outcome. Schroën AA, et al. **J Surg Oncol** 1996 Nov; 63(3):141–4

Multicentricity and recurrence of breast cancer [letter; comment] Drew PJ, et al. **Lancet** 1997 Jan 18; 349(9046):208–9. Comment on: Lancet 1996 Nov 9;348(9037):1256–7.

Intradermal blue dye to identify sentinel lymph node in breast cancer [letter] Giuliano AE. **Lancet** 1997 Sep 27; 350(9082):958

Choice of contrast enhancement index for dynamic magnetic resonance mammography. Brookes JA, et al. **Magn Reson Imaging** 1996;14(9):1023–31

Dynamic sequential 3D gadolinium–enhanced MRI of the whole breast. Heiberg EV, et al. **Magn Reson Imaging** 1996; 14(4):337–48

Electric current density imaging of mice tumors. Serša I, et al. **Magn Reson Med** 1997 Mar;37(3):404–9

FBL blood test as a predictive marker of breast cancer in high risk women. Moroz C, et al. **Med Oncol** 1997 Mar; 14(1):39–42

False–positive reduction technique for detection of masses on digital mammograms: global and local multiresolution texture analysis. Wei D, et al. **Med Phys** 1997 Jun; 24(6):903–14

Expression of bcl–2 by breast cancer: a possible diagnostic application. Alsabeh R, et al. **Mod Pathol** 1996 Apr; 9(4):439–44

Prognostic value of DNA ploidy using flow cytometry in 1301 breast cancer patients: results of the prospective Multicenter Morphometric Mammary Carcinoma Project. Bergers E, et al. **Mod Pathol** 1997 Aug;10(8):762–8

Expression of inducible nitric oxide synthase in breast cancer correlates with metastatic disease. Dueñas–Gonzalez A, et al. **Mod Pathol** 1997 Jul;10(7):645–9

Uncommon presentation of mammary myofibroblastoma [see comments] Hamele–Bena D, et al. **Mod Pathol** 1996 Jul; 9(7):786–90. Comment in: Mod Pathol 1997 Mar;10(3):270–2.

The role of immunocytochemical markers in the differential diagnosis of proliferative and neoplastic lesions of the breast. Joshi MG, et al. **Mod Pathol** 1996 Jan;9(1):57–62

Arguments about tossups [letter; comment] Levy A. **N Engl J Med** 1997 Aug 28;337(9):638; discussion 639. Comment on: N Engl J Med 1997 Apr 24;336(17):1243–4.

Model of comprehensive diagnosis and care for breast cancer patients. August DA, et al. **N J Med** 1996 May;93(5):27–34

The role of the breast physician in the multidisciplinary breast centre. Harman J, et al. **N Z Med J** 1997 Feb 14; 110(1037):39–41

Imaging and the early detection of breast cancer. Helke PA. **Nebr Med J** 1996 Mar;81(3):79–83

Prognostic value of DNA ploidy in breast cancer stage I–II. Cufer T, et al. **Neoplasma** 1997;44(2):127–32

In vitro receptor imaging for characterization of human solid tumors. Del Vecchio S, et al. **Nucl Med Biol** 1994 Jul; 21(5):771–4

A comprehensive approach to evaluating nipple discharge. Arnold GJ, et al. **Nurse Pract** 1997 Jul;22(7):96–102, 105–11 (16 ref.)

Expression analyses of epidermal growth factor receptor and HER–2/neu: no advantage of prediction of recurrence or survival in breast cancer patients. Beckmann MW, et al. **Oncology** 1996 Nov–Dec;53(6):441–7

Pregnancy and offspring after the appearance of breast cancer. Malamos NA, et al. **Oncology** 1996 Nov–Dec; 53(6):471–5

MRI may reduce the number of biopsies for breast cancer [news] **Oncology (Huntingt)** 1995 Jun;9(6):489, 510

NCCN Breast Cancer Practice Guidelines. The National Comprehensive Cancer Network. Carlson RW, et al. **Oncology (Huntingt)** 1996 Nov;10(11 Suppl):47–75

Breast hamartoma with invasive ductal carcinoma. Report of two cases and review of the literature. Anani PA, et al. **Pathol Res Pract** 1996 Dec;192(12):1187–94 (19 ref.)

Diagnostic pitfalls in the cytological interpretation of breast cancer. Greenberg M. **Pathology** 1996 May;28(2):113–21 (41 ref.)

FNB diagnosis of breast carcinoma associated with HIV infection: a case report and review of HIV associated malignancy. Mayer AP, et al. **Pathology** 1996 Jan; 28(1):90–5 (40 ref.)

The factors important for successful fine–needle aspiration biopsies: a comparative study of breast diagnoses at two hospitals. Ljung BM, et al. **Pathology (Phila)** 1996; 4(2):493–8

Non–invasive measurements of breast tissue optical properties using frequency–domain photon migration. Tromberg BJ, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):661–8

The detection of nodal metastasis in breast cancer using neural network techniques. Naguib RN, et al. **Physiol Meas** 1996 Nov;17(4):297–303

Internal mammary silicone lymphadenopathy mimicking recurrent breast cancer. Kao CC, et al. **Plast Reconstr Surg** 1997 Jan;99(1):225–9

Subacute torsion of periprosthetic capsular tissue presenting as a painful breast tumor. Mendez–Fernandez MA. **Plast Reconstr Surg** 1997 Sep;100(3):750–2

Diagnostic value of fine needle aspiration biopsy for breast fibroadenoma diagnosis. Szylberg T, et al. **Pol J Pathol** 1997;48(2):79–86

Reasons for delay in breast cancer diagnosis. Caplan LS, et al. **Prev Med** 1996 Mar–Apr;25(2):218–24

Excessive breast self–examination among first–degree relatives of newly diagnosed breast cancer patients. High–Risk Breast Cancer Consortium. Epstein SA, et al. **Psychosomatics** 1997 May–Jun;38(3):253–61

Diagnosis and prognosis of primary breast cancer. Robertson JF, et al. **Q J Nucl Med** 1997 Sep;41(3):200–10 (108 ref.)

The state of the preoperative diagnosis of breast cancer today. Veronesi U. **Q J Nucl Med** 1997 Sep;41(3):177–8

Assessment of breast cancer with dynamic gadolinium–enhanced MR imaging combined with magnetization transfer contrast using a newly developed breast surface coil for the supine position. Shimada M, et al. **Radiat Med** 1997 Mar–Apr;15(2):85–90

Image interpretation session: 1996. Complex sclerosing lesion (radial scar) of the right breast masquerading as an occult breast carcinoma. **Radiographics** 1997 Jan–Feb;17(1):248–50

Breast imaging case of the day. Benign phyllodes tumor. Czum JM, et al. **Radiographics** 1997 Mar–Apr;17(2):548–51

High–resolution MR imaging of the breast: clinical context. Orel SG, et al. **Radiographics** 1996 Nov;16(6):1385–401

Breast imaging case of the day. Multicentric intraductal papillary carcinoma. Tobin CE, et al. **Radiographics** 1996 May;16(3):720–2

Early detection techniques in breast cancer management [published erratum appears in Radiol Technol 1997 May–Jun;68(5):378] Newman J. **Radiol Technol** 1997 Mar–Apr;68(4):309–24; quiz 325–8 (67 ref.)

Stereotactic breast biopsy of atypical ductal hyperplasia and ductal carcinoma in situ lesions: improved accuracy with directional, vacuum–assisted biopsy. Burbank F. **Radiology** 1997 Mar;202(3):843–7

Syndrome of spotty skin pigmentation, myxomas, endocrine overactivity, and schwannomas (Carney complex): breast imaging findings. Courcoutsakis NA, et al. **Radiology** 1997 Oct;205(1):221–7

Differentiation between benign and malignant breast lesions with MR imaging and scintimammography [letter] Delpassand ES, et al. **Radiology** 1997 Oct;205(1):283–4; discussion 285–6

Stereotactic core breast biopsy of a minimal carcinoma complicated by a large hematoma: a management dilemma. Deutch BM, et al. **Radiology** 1997 Feb;202(2):431–3

Benign versus malignant breast disease: comparison of contrast–enhanced MR imaging and Tc–99m tetrofosmin scintimammography. Fenlon HM, et al. **Radiology** 1997 Oct;205(1):214–20

Morphologic criteria for interpreting abnormalities seen at breast MR imaging [editorial; comment] Frankel SD, et al. **Radiology** 1997 Mar;202(3):633–4. Comment on: Radiology 1997 Mar;202(3):833–41.

Differentiation of benign and malignant breast lesions: MR imaging versus Tc–99m sestamibi scintimammography. Helbich TH, et al. **Radiology** 1997 Feb;202(2):421–9

Needle–localized breast biopsy: why do we fail? Jackman RJ, et al. **Radiology** 1997 Sep;204(3):677–84

Differentiation between benign and malignant breast lesions

with MR imaging and scintimammography [letter] Khalkhali I. **Radiology** 1997 Oct;205(1):284–5; discussion 285–6

Breast neoplasms: T2* susceptibility–contrast, first–pass perfusion MR imaging. Kuhl CK, et al. **Radiology** 1997 Jan;202(1):87–95

Interventional breast MR imaging: clinical use of a stereotactic localization and biopsy device. Kuhl CK, et al. **Radiology** 1997 Sep;204(3):667–75

Analysis of cancers not diagnosed at stereotactic core breast biopsy. Liberman L, et al. **Radiology** 1997 Apr;203(1):151–7

Fine–needle biopsy specimens of benign breast lesions distinguished from invasive cancer ex vivo with proton MR spectroscopy. Mackinnon WB, et al. **Radiology** 1997 Sep;204(3):661–6

Prediction of axillary lymph node status in invasive breast cancer with dynamic contrast–enhanced MR imaging. Mussurakis S, et al. **Radiology** 1997 May;203(2):317–21

Breast MR imaging: interpretation model [see comments] Nunes LW, et al. **Radiology** 1997 Mar;202(3):833–41. Comment in: Radiology 1997 Mar;202(3):633–4.

MR imaging of ductal carcinoma in situ. Orel SG, et al. **Radiology** 1997 Feb;202(2):413–20

Breast intraductal masses: US–guided fine–needle aspiration after galactography. Sardanelli F, et al. **Radiology** 1997 Jul; 204(1):143–8

Differentiation between benign and malignant breast lesions with MR imaging and scintimammography [letter] Servais F, et al. **Radiology** 1997 Oct;205(1):283; discussion 285–6

Three–dimensional RODEO breast MR imaging of lesions containing ductal carcinoma in situ. Soderstrom CE, et al. **Radiology** 1996 Nov;201(2):427–32

Leiomyoma of the breast. A case report. Nazário AC, et al. **Rev Paul Med** 1995 Sep–Oct;113(5):992–4

The role of mammography in clinical practice––a review. Du Toit RS, et al. **S Afr J Surg** 1996 Nov;34(4):165–8 (50 ref.)

Critical evaluation of prognostic factors. Dhingra K, et al. **Semin Oncol** 1996 Aug;23(4):436–45 (79 ref.)

Pregnancy and breast cancer. Merkel DE. **Semin Surg Oncol** 1996 Sep–Oct;12(5):370–5 (43 ref.)

High–resolution MR imaging of the breast. Orel SG. **Semin Ultrasound CT MR** 1996 Oct;17(5):476–93 (46 ref.)

Clinics in diagnostic imaging (11). Ductal carcinoma of the breast. Yang WT. **Singapore Med J** 1996 Apr;37(2):206–10

Bilateral non–Hodgkin's lymphoma of the breast mimicking mastitis. Dawn B, et al. **South Med J** 1997 Mar;90(3):328–9

Technologic advances in breast imaging. Current and future strategies, controversies, and opportunities. Hall FM. **Surg Oncol Clin N Am** 1997 Apr;6(2):403–9 (31 ref.)

Pleomorphic adenoma of the breast: report of a case. Mochinaga N, et al. **Surg Today** 1997;27(3):278–81

Granular cell tumors of the breast: a report of two cases. Ohnishi H, et al. **Surg Today** 1996;26(11):929–32

Poor handling of mammography. Avery K. **Tenn Med** 1997 Jul;90(7):270–1

New SCM (structuredness of the cytoplasmatic matrix)–based approach in breast cancer detection. Birindelli S, et al. **Tumori** 1996 Nov–Dec;82(6):550–3

Mucinous markers in breast cancer. Seregni E, et al. **Tumori** 1997 Mar–Apr;83(2):550–1 (09 ref.)

A clinical algorithm for the management of abnormal mammograms. A community hospital's experience. Gist D, et al. **West J Med** 1997 Jan;166(1):21–8

Magnetic resonance imaging of the breast. Rosenberg R, et al. **West J Med** 1996 Jul–Aug;165(1–2):58–9

Evaluation of mammographic breast lesions with Tc–99m sestamibi scintimammography and contrast enhanced MRI. Sommer H, et al. **Zentralbl Gynakol** 1997;119(1):6–11

[Significance of diagnosis and prognosis for breast carcinoma with examination of Ag–NORs] Xiong X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):609–10 (Eng. Abstr.) **(Chi)**

[Preoperative needle biopsy: an improvement in palpable breast tumors with strong indications for malignancy] Zonderland HM, et al. **Ned Tijdschr Geneeskd** 1996 Sep 28;140(39):1952–6 (Eng. Abstr.) **(Dut)**

[European recommendations for quality assurance in the setting of mammographic screening for breast cancer. Report of pathologists of the working group "Breast Cancer Screening" of the European Union] **Ann Pathol** 1996 Nov; 16(5):315–33 (25 ref.) **(Fre)**

[Immunohistochemical detection of estradiol and progesterone receptors in paraffin sections after treatment with microwaves. Comparison with biochemical assay of receptors in a series of 123 breast cancers with determination of the threshold of optimal positivity] Vilain MO, et al. **Ann Pathol** 1997 Apr;17(2):82–8 **(Fre)**

[Prognostic studies in cancer of the breast: optimal use of current statistical tools] Bonichon F. **Bull Cancer** 1996 Dec; 83(12):1046–52 (20 ref.) **(Fre)**

[Imaging of breast neoplasms] Gilles R, et al. **Bull Cancer** 1997 Jan;84(1):77–82 (Eng. Abstr.) **(Fre)**

[Hierarchy of breast examinations after twenty years experience] Colin C. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(5):439–44 (Eng. Abstr.) **(Fre)**

[A rare breast tumor: mammary fibromatosis. Two case reports and a review of the literature] Corbisier C, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(3):315–20 (38 ref.) (Eng. Abstr.) **(Fre)**

[Diagnosis of infraclinical lesions of the breast with dynamic MRI: results of a prospective and multicenter study] Gilles R, et al. **J Radiol** 1997 Apr;78(4):293–7 (Eng. Abstr.) **(Fre)**

[Axillary lymph node microcalcifications disclosing breast cancer] Marchetti C, et al. **J Radiol** 1997 Jun;78(6):457–9 (Eng. Abstr.) **(Fre)**

[Importance of early detection of metastases? Impact on survival and quality of life] Pujol H. **Nucl Med Biol** 1994 Apr;21(3):303–15 (16 ref.) (Eng. Abstr.) **(Fre)**

[MR mammography: current status and indications] Umschaden HW, et al. **Acta Med Austriaca** 1997; 24(2):39–45 (32 ref.) (Eng. Abstr.) **(Ger)**

[Contrast media in MR mammography] Tontsch P, et al. **Aktuelle Radiol** 1997 Mar;7(2):86–92 (Eng. Abstr.) **(Ger)**

[After care of breast carcinoma patients––recommendations from the Berlin consensus conference] Hellriegel KP, et al. **Fortschr Med** 1996 Feb 20;114(5):43–5 (0 ref.) **(Ger)**

[Magnetic resonance mammography––open questions] Kessler M, et al. **Geburtshilfe Frauenheilkd** 1996 Aug; 56(8):M107–15 **(Ger)**

[Cystosarcoma phylloides of the breast. A retrospective analysis of 12 cases] Mallebré B, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):35–40 (Eng. Abstr.) **(Ger)**

[Enophthalmos caused by orbital metastasis of breast carcinoma] Lagrèze WD, et al. **Klin Monatsbl Augenheilkd** 1997 Jul;211(1):68–9 (Eng. Abstr.) **(Ger)**

[Rare differential diagnosis of breast tumor. Giant cell tumor of the ribs] Brenner P, et al. **Langenbecks Arch Chir** 1997; 382(2):64–8 (Eng. Abstr.) **(Ger)**

[Carcinoma–associated retinopathy in breast carcinoma and carcinoid tumor] Holz FG, et al. **Ophthalmologe** 1997 May; 94(5):337–42 (Eng. Abstr.) **(Ger)**

[The value of MR–mammography at 1.5 tesla in the differential diagnosis of non–puerperal mastitis and inflammatory breast carcinoma] Tomczak R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):148–51 (Eng. Abstr.) **(Ger)**

[Inflammatory breast carcinoma versus puerperal mastitis. Difficulties in differentiation based on clinical, histological and MRI findings] Unterweger M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):558–60 **(Ger)**

[Breast carcinoma: state of the art] Pestalozzi BC. **Schweiz Med Wochenschr** 1996 Nov 30;126(48):2049–58 (54 ref.) (Eng. Abstr.) **(Ger)**

[Onset of borreliosis] Sauter C. **Schweiz Med Wochenschr** 1997 Jul 8;127(27–28):1211 **(Ger)**

[Bone metastasis in breast carcinoma] Kölbl O, et al. **Zentralbl Chir** 1997;122(2):97–102 (Eng. Abstr.) **(Ger)**

[Paraneoplastic retinopathy in 2 patients with breast carcinoma] Huober J, et al. **Zentralbl Gynakol** 1997; 119(6):278–81 (Eng. Abstr.) **(Ger)**

[Telecommunication––a medium for improving prenatal diagnosis and gynecologic ultrasound diagnosis? Initial experiences] Sohn C, et al. **Zentralbl Gynakol** 1997; 119(4):177–80 (Eng. Abstr.) **(Ger)**

[MSA––a new sensitive tumor marker in breast carcinoma] Zahm DM, et al. **Zentralbl Gynakol** 1996;118(12):659–64 (Eng. Abstr.) **(Ger)**

[Bilateral primary lymphoma of the breasts detected in pregnancy] Illés A, et al. **Orv Hetil** 1996 Jun 16; 137(24):1315–7 (22 ref.) (Eng. Abstr.) **(Hun)**

[Role of biological indicators in the therapeutic decision in breast carcinoma] Amadori D, et al. **Chir Ital** 1995; 47(4):15–22 (Eng. Abstr.) **(Ita)**

[Diagnostic framework of nonpalpable lesions of the breast] Ciatto S, et al. **Chir Ital** 1995;47(4):5–8 (Eng. Abstr.) **(Ita)**

[Effectiveness and monitoring of breast cancer screening programs] Paci E, et al. **Epidemiol Prev** 1995 Dec; 19(65):310–7 (Eng. Abstr.) **(Ita)**

[Parsimony and secondary cancer prevention (editorial)] Segnan N. **Epidemiol Prev** 1995 Dec;19(65):293–6 **(Ita)**

[Evaluation of the costs of mammographic screening program in the city of Florence] Spagnolo G, et al. **Epidemiol Prev** 1995 Dec;19(65):330–7 (Eng. Abstr.) **(Ita)**

[Cost analysis of a mammographic screening program] Vanara F, et al. **Epidemiol Prev** 1995 Dec;19(65):318–29 (Eng. Abstr.) **(Ita)**

[Nonpalpable lesions of breast carcinoma in elderly patients] Caruso U, et al. **Minerva Chir** 1997 May;52(5):619–24 (23 ref.) (Eng. Abstr.) **(Ita)**

[The natural history of breast cancer. The impact of prevention and therapy] Montorsi W, et al. **Minerva Chir** 1997 May;52(5):601–17 (68 ref.) (Eng. Abstr.) **(Ita)**

[Diagnostic role of mammography and clinical examination in the framework of a screening program for breast carcinoma in Brescia] Filippini L, et al. **Minerva Med** 1996 Nov;87(11):531–8 (Eng. Abstr.) **(Ita)**

[Prognostic factors in breast carcinoma with negative axillary lymph nodes (editorial)] Amadori M, et al. **Recenti Prog Med** 1997 Apr;88(4):181–5 (32 ref.) (Eng. Abstr.) **(Ita)**

[The use of high resolution MR imaging for pre–treatment evaluation of breast cancer: detection of intraductal spread] Hiramatsu H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):182–8 (Eng. Abstr.) **(Jpn)**

[Quantitative evaluation of magnetization transfer ratio in irradiated breast with breast conservation therapy] Itoh Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):67–8 (Eng. Abstr.) **(Jpn)**

[Cytogenetic abnormalities, genetic alterations, and applications for genetic diagnosis in breast cancer] Tsukamoto K, et al. **Nippon Rinsho** 1996 Dec; 54(12):3389–97 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Two cases of breast cancer, simultaneously associated with uterine cancer] Saito C, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jul;48(7):544–7 **(Jpn)**

[Check up of breast cancer stages 1 and 2] Gundersen S, et al. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1079–81 (Eng. Abstr.) **(Nor)**

[A new biopsy needle in the laryngological diagnosis] Latkowski B, et al. **Otolaryngol Pol** 1995;49(5):480–2 (Eng. Abstr.) **(Pol)**

[Level of CA 15–3 antigen––a prognostic factor in patients with breast cancer?] Wojtacki J, et al. **Przegl Lek** 1996; 53(11):788–92 (Eng. Abstr.) **(Pol)**

[The clinical aspects of multiple primary tumors in patients with breast cancer] Bekhtereva SA. **Vestn Khir Im I I Grek** 1996;155(4):18–21 (Eng. Abstr.) **(Rus)**

[Early detection of breast cancer (editorial)] Mariscal Martínez A. **Med Clin (Barc)** 1997 May 24;108(20):779–80 **(Spa)**

[Breast carcinoma in a series of 53 young women] Pardo Rojas P, et al. **Rev Clin Esp** 1996 Dec;196(12):811–5 (Eng. Abstr.) **(Spa)**

[The study of cost effectiveness of breast cancer detection in Catalonia] Plans P, et al. **Rev Esp Salud Publica** 1996 Jan–Feb;70(1):15–23 (Eng. Abstr.) **(Spa)**

[Compensation after delayed diagnosis of breast cancer. Passiveness and uncertain routines caused damage] Räf L. **Lakartidningen** 1996 Nov 27;93(48):4422, 4426 **(Swe)**

DIET THERAPY

Feasibility of using volunteer research staff to deliver and evaluate a low–fat dietary intervention: the American Cancer Society Breast Cancer Dietary Intervention Project. Kristal AR, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jun;6(6):459–67

Responsiveness of carotenoids to a high vegetable diet intervention designed to prevent breast cancer recurrence. Rock CL, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):617–23

DRUG THERAPY

Proceedings of the Nordic Ciba Cancer Care Workshop on Advanced Breast Cancer. Stockholm, 18–19 January 1996. **Acta Oncol** 1996;35 Suppl 5:1–102

Primary systemic treatment with weekly doxorubicin monotherapy in women with locally advanced breast cancer; clinical experience and parameters predicting outcome. Aas T, et al. **Acta Oncol** 1996;35 Suppl 5:5–8

Bisphosphonate therapy in metastatic breast cancer. Blomqvist C, et al. **Acta Oncol** 1996;35 Suppl 5:81–3 (17 ref.)

Intra–arterial infusion chemotherapy in the treatment of locally advanced breast cancer. Cakmakli S, et al. **Acta Oncol** 1997;36(5):489–92

Endocrine treatment of advanced breast cancer. Dowsett M. **Acta Oncol** 1996;35 Suppl 5:68–72 (32 ref.)

Endocrine resistance in advanced breast cancer. Dowsett M. **Acta Oncol** 1996;35 Suppl 5:91–5 (30 ref.)

Second–line endocrine treatment of advanced breast cancer––a randomized cross–over study of medroxy–progesterone acetate and aminoglutethimide. Hultborn R, et al. **Acta Oncol** 1996;35 Suppl 5:75

Novel endocrine therapies in breast cancer. Klijn JG, et al. **Acta Oncol** 1996;35 Suppl 5:30–7 (90 ref.)

Aromatase inhibition for breast cancer treatment. Lønning PE. **Acta Oncol** 1996;35 Suppl 5:38–43 (31 ref.)

Mechanisms of tamoxifen resistance in the treatment of advanced breast cancer. Lykkesfeldt AE. **Acta Oncol** 1996; 35 Suppl 5:9–14 (60 ref.)

Suramin in non–small cell lung cancer and advanced breast cancer. Two parallel phase II studies. Mirza MR, et al. **Acta Oncol** 1997;36(2):171–4

Concurrent tamoxifen (TAM) + cyclophosphamide, epirubicin, and fluorouracil (CEF) versus TAM + delayed CEF after six months of endocrine therapy in metastatic breast cancer––a randomized trial from the Danish Breast Cancer Cooperative Group (DBCG). Pfeiffer P, et al. **Acta Oncol** 1996;35 Suppl 5:57

Analysis of adjuvant treatment in postmenopausal patients with stage II invasive breast carcinoma––a pattern of care study and quality assurance of 431 consecutive patients in Oslo 1980–1989. Raabe NK, et al. **Acta Oncol** 1997; 36(3):255–60

Proper sequence of endocrine therapies in advanced breast cancer. Rose C. **Acta Oncol** 1996;35 Suppl 5:44–9 (14 ref.)

Predictive factors for response to cytotoxic treatment in advanced breast cancer: a review. Sjöström J, et al. **Acta Oncol** 1996;35 Suppl 5:84–90 (42 ref.)

Induction chemotherapy with versus without hormonal synchronisation in locally advanced breast cancer. Sjövall MP, et al. **Acta Oncol** 1997;36(2):207–12

Letrozole (CGS 20267), a new oral aromatase inhibitor for

the treatment of advanced breast cancer in postmenopausal patients. Trunet PF, et al. **Acta Oncol** 1996;35 Suppl 5:15–8 (27 ref.)

Quercetin as a modulator of the cellular neoplastic phenotype. Effects on the expression of mutated H-ras and p53 in rodent and human cells. Avila MA, et al. **Adv Exp Med Biol** 1996;401:101–10

Antitumorigenic effects of limonene and perillyl alcohol against pancreatic and breast cancer. Crowell PL, et al. **Adv Exp Med Biol** 1996;401:131–6 (23 ref.)

Apoptosis in hormone-responsive malignancies. Denmeade SR, et al. **Adv Pharmacol** 1997;41:553–83 (126 ref.)

Endometrial thickness in tamoxifen-treated patients: correlation with clinical and pathologic findings. Hann LE, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):657–61

Computerized tomography assessment of women with weight changes associated with adjuvant treatment for breast cancer. Cheney CL, et al. **Am J Clin Nutr** 1997 Jul; 66(1):141–6

Reduced rates of metabolism and decreased physical activity in breast cancer patients receiving adjuvant chemotherapy. Demark-Wahnefried W, et al. **Am J Clin Nutr** 1997 May; 65(5):1495–501

Mediastinitis related to probable central vinblastine extravasation in a woman undergoing adjuvant chemotherapy for early breast cancer. Anderson CM, et al. **Am J Clin Oncol** 1996 Dec;19(6):566–8 (6 ref.)

Docetaxel. A review of its role in breast cancer treatment. Antoine EC, et al. **Am J Clin Oncol** 1997 Aug;20(4):429–32 (38 ref.)

Filgrastim and lack of support of intensive adjuvant chemotherapy for high-risk breast cancer patients. Baldini E, et al. **Am J Clin Oncol** 1997 Apr;20(2):169–72

Adjuvant chemotherapy with doxorubicin-containing regimen for 326 stage II breast cancers: 15-year results. Ferrière JP, et al. **Am J Clin Oncol** 1997 Jun;20(3):219–25

Phase II trial of decapeptyl (D-TRP-6), a potent luteinizing hormone-releasing hormone analogue in untreated advanced breast cancer. Garcia-Giralt E, et al. **Am J Clin Oncol** 1996 Oct;19(5):455–8

Evaluation of intravenous 6-thioguanine as first-line chemotherapy in women with metastatic breast cancer. Ingle JN, et al. **Am J Clin Oncol** 1997 Feb;20(1):69–72

Phase II evaluation of cisplatin and WR2721 for refractory metastatic breast cancer. Ramnath N, et al. **Am J Clin Oncol** 1997 Aug;20(4):368–72

Activity of standard-dose carboplatin, cyclophosphamide, and etoposide in patients with metastatic breast cancer with previous exposure to anthracyclines. Recchia F, et al. **Am J Clin Oncol** 1997 Apr;20(2):166–8

Rheumatic symptoms following adjuvant therapy for breast cancer. Warner E, et al. **Am J Clin Oncol** 1997 Jun; 20(3):322–6

Docetaxel and gemcitabine released for cancer chemotherapy [news] **Am J Health Syst Pharm** 1996 Jul 15;53(14):1643, 1649

Changes in serum estrogen levels in women during tamoxifen therapy. Lum SS, et al. **Am J Surg** 1997 May; 173(5):399–402

Biologic tumor markers, lymph node status, and decision about adjuvant chemotherapy for breast cancer. Velanovich V. **Am Surg** 1997 Apr;63(4):330–3

Tamoxifen-induced female androgenetic alopecia in a patient with breast cancer [letter] Ayoub JP, et al. **Ann Intern Med** 1997 May 1;126(9):745–6

High-dose chemotherapy for breast cancer [letter; comment] de Vries EG, et al. **Ann Intern Med** 1997 Jun 1; 126(11):917–8. Comment on: Ann Intern Med 1996 Oct 1;125(7):599–604.

High-dose chemotherapy for breast cancer [letter; comment] Rushing DA. **Ann Intern Med** 1997 Jun 1;126(11):917; discussion 918. Comment on: Ann Intern Med 1996 Oct 1;125(7):599–604.

Trials of 9-amino-20(S)-camptothecin in Boston. Eder JP, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:247–55

Dose intensification and breast cancer: current results and future perspectives. Antoine EC, et al. **Ann Oncol** 1996;7 Suppl 2:31–40 (52 ref.)

A multicentre, randomized, pharmacokinetic, endocrine and clinical study to evaluate formestane in breast cancer patients at first relapse: endocrine and clinical results. The Italian Trials in Medical Oncology (I.T.M.O.) group. Bajetta E, et al. **Ann Oncol** 1997 Jul;8(7):649–54

Mobilisation kinetics of primitive haemopoietic cells following G-CSF with or without chemotherapy for advanced breast cancer. Baumann I, et al. **Ann Oncol** 1996 Dec;7(10):1051–7

Dose intensity in patients with metastatic breast cancer—time for novel thoughts? [editorial; comment] Bergh J. **Ann Oncol** 1997 Feb;8(2):109–10. Comment on: Ann Oncol 1997 Feb;8(2):155–62.

Letrozole, a new oral non-steroidal aromastase inhibitor in treating postmenopausal patients with advanced breast cancer. A pilot study. Bisagni G, et al. **Ann Oncol** 1996 Jan;7(1):99–102

Paclitaxel-induced radiation recall dermatitis [letter] Bokemeyer C, et al. **Ann Oncol** 1996 Sep;7(7):755–6 (7 ref.)

Doubling epirubicin dose intensity (100 mg/m2 versus 50 mg/m2) in the FEC regimen significantly increases response rates. An international randomised phase III study in metastatic breast cancer. The Epirubicin High Dose (HEPI 010) Study Group [see comments] Brufman G, et al. **Ann Oncol** 1997 Feb;8(2):155–62. Comment in: Ann Oncol 1997 Feb;8(2):109–10.

Breast cancer: pretreatment drug resistance parameters (GSH-system, ATase, P-glycoprotein) in tumor tissue and their correlation with clinical and prognostic characteristics [see comments] Buser K, et al. **Ann Oncol** 1997 Apr; 8(4):335–41. Comment in: Ann Oncol 1997 Apr;8(4):314–5.

Citrobacter freundii and fatal neutropenic enterocolitis following adjuvant chemotherapy for breast cancer [letter] Clemons M, et al. **Ann Oncol** 1997 Apr;8(4):405

New generation of aromatase inhibitors: prospects of a major advantage for the patients [editorial; comment] Cocconi G. **Ann Oncol** 1996 Jul;7(5):433–7. Comment on: Ann Oncol 1996 Jul;7(5):465–9. Comment on: Ann Oncol 1996 Jul;7(5):465–9. Comment on: Ann Oncol 1996 Jul;7(5):471–9.

Chemotherapy with or without estrogenic recruitment in metastatic breast cancer. A randomized trial of the Gruppo Oncologico Nord Ovest (GONO). Conte PF, et al. **Ann Oncol** 1996 Jul;7(5):487–90

Myelodysplasia and acute myeloid leukaemia following adjuvant chemotherapy for breast cancer using mitoxantrone and methotrexate with or without mitomycin. Cremin P, et al. **Ann Oncol** 1996 Sep;7(7):745–6

Induction of TGF-beta by an antiprogestin in the human breast cancer cell line T-47D. Dannecker C, et al. **Ann Oncol** 1996 Apr;7(4):391–5

Aromatase inhibitors come of age [editorial] Dowsett M. **Ann Oncol** 1997 Jul;8(7):631–2

A phase II trial of circadian-timed paclitaxel and cisplatin therapy in metastatic breast cancer. Ezzat A, et al. **Ann Oncol** 1997 Jul;8(7):663–7

A randomised study of CGS 16949A (fadrozole) versus tamoxifen in previously untreated postmenopausal patients with metastatic breast cancer [see comments] Falkson CI, et al. **Ann Oncol** 1996 Jul;7(5):465–9. Comment in: Ann Oncol 1996 Jul;7(5):433–7.

Relationship of elevated tumour thymidine phosphorylase in node-positive breast carcinomas to the effects of adjuvant CMF. Fox SB, et al. **Ann Oncol** 1997 Mar;8(3):271–5

Combined doxorubicin and paclitaxel in advanced breast cancer: effective and cardiotoxic. Gehl J, et al. **Ann Oncol** 1996 Sep;7(7):687–93

Hormonal replacement therapy for women with a personal history of breast cancer? [editorial; comment] Holmberg L. **Ann Oncol** 1996 Sep;7(7):655–6 (15 ref.). Comment on: Ann Oncol 1996 Sep;7(7):671–5.

Dose-intensive chemotherapy with doxorubicin, cyclophosphamide and GM-CSF fails to improve survival of metastatic breast cancer patients. Honkoop AH, et al. **Ann Oncol** 1996 Jan;7(1):35–9

A pilot study of infusional CMF (CMF-inf): active and well tolerated in breast cancer. The Edinburgh Breast Group. Mackay J, et al. **Ann Oncol** 1996 Apr;7(4):409–11

The effect of adjuvant prednisone combined with CMF on patterns of relapse and occurrence of second malignancies in patients with breast cancer. International (Ludwig) Breast Cancer Study Group [see comments] Marini G, et al. **Ann Oncol** 1996 Mar;7(3):245–50. Comment in: Ann Oncol 1996 Aug;7(6):643.

Paclitaxel and vinorelbine in anthracycline-pretreated breast cancer: a phase II study. Michelotti A, et al. **Ann Oncol** 1996 Oct;7(8):857–60

Adjuvant therapy for breast cancer and psychological distress [letter] Montgomery GH, et al. **Ann Oncol** 1996 Nov; 7(9):977–8

Dose-finding study of paclitaxel and cyclophosphamide in advanced breast cancer. Pagani O, et al. **Ann Oncol** 1997 Jul;8(7):655–61

Clinical significance of cyclin D1 expression in patients with node-positive breast carcinoma treated with adjuvant therapy. Pelosio P, et al. **Ann Oncol** 1996 Sep;7(7):695–703

Low-dose continuous intravenous infusion of 5-fluorouracil for metastatic breast cancer [see comments] Regazzoni S, et al. **Ann Oncol** 1996 Oct;7(8):807–13. Comment in: Ann Oncol 1996 Oct;7(8):771.

Risk of new primaries after chemotherapy and/or tamoxifen treatment for early breast cancer. Rubagotti A, et al. **Ann Oncol** 1996 Mar;7(3):239–44

Continuous infusional 5-fluorouracil in breast cancer or the revival of an old drug? [editorial; comment] Smith IE. **Ann Oncol** 1996 Oct;7(8):771–2 (13 ref.). Comment on: Ann Oncol 1996 Oct;7(8):807–13.

First-line fadrozole HCI (CGS 16949A) versus tamoxifen in postmenopausal women with advanced breast cancer. Prospective randomised trial of the Swiss Group for Clinical Cancer Research SAKK 20/88 [see comments] Thürlimann B, et al. **Ann Oncol** 1996 Jul;7(5):471–9. Comment in: Ann Oncol 1996 Jul;7(5):433–7.

Effects of adjuvant systemic treatments in breast cancer [editorial] Valagussa P, et al. **Ann Oncol** 1996 Mar; 7(3):221–2

Sexuality in women receiving chemotherapy for breast cancer [letter; comment] Valle J, et al. **Ann Oncol** 1997 Jun;8(6):616–8. Comment on: Ann Oncol 1997 Feb;8(2):149–53.

Phase I/II study with a weekly 24-hour infusion of 5-fluorouracil plus high-dose folinic acid (HD-FU/FA) in intensively pretreated patients with metastatic breast cancer. Wilke H, et al. **Ann Oncol** 1996 Jan;7(1):55–8

Adjuvant cyclophosphamide, methotrexate and fluorouracil in node-negative and estrogen receptor-negative breast cancer. Updated results. Zambetti M, et al. **Ann Oncol** 1996 Jul;7(5):481–5

Immediate breast reconstruction in the high-risk adjuvant setting. Wey PD, et al. **Ann Plast Surg** 1997 Apr; 38(4):342–4

Saporin 6 and lonidamine in primary cell cultures from human breast carcinomas: a synergistic effect. Gasperi-Campani A, et al. **Anticancer Drug Des** 1997 Mar; 12(2):91–8

The clinical rationale for developing docetaxel (Taxotere). Armand JP. **Anticancer Drugs** 1996 Aug;7 Suppl 2:37–9 (13 ref.)

Dose intensification of mitoxantrone in combination with levofolinic acid, fluorouracil, cyclophosphamide and granulocyte colony stimulating factor support in advanced untreated breast cancer patients. A multicentric phase II study of the Southern Italy Oncology Group. Colucci G, et al. **Anticancer Drugs** 1997 Mar;8(3):257–64

Correlation of the clinical response to chemotherapy in breast cancer with ex vivo chemosensitivity. Cree IA, et al. **Anticancer Drugs** 1996 Aug;7(6):630–5

Taxoids in combination chemotherapy for metastatic breast cancer. Dieras V, et al. **Anticancer Drugs** 1996 Aug;7 Suppl 2:47–52 (33 ref.)

New approaches to the treatment of advanced breast cancer. Eckardt JR. **Anticancer Drugs** 1996 Aug;7 Suppl 2:41–6 (23 ref.)

Antiemetic treatment with two different doses of methylprednisolone in breast cancer patients: a double-blind randomized cross-over study with evaluation of efficacy parameters. Havsteen H, et al. **Anticancer Drugs** 1996 Jul;7(5):535–42

CNF combination as adjuvant treatment in breast cancer patients is well tolerated. Hirvikoski PP, et al. **Anticancer Drugs** 1997 Apr;8(4):376–8

Activity of TER286 against human tumor colony-forming units. Izbicka E, et al. **Anticancer Drugs** 1997 Apr; 8(4):345–8

Conclusion: the place of docetaxel (Taxotere) in future therapy. Khayat D. **Anticancer Drugs** 1996 Aug;7 Suppl 2:53

Daily oral etoposide in metastatic breast cancer. Nešković-Konstantinović ZB, et al. **Anticancer Drugs** 1996 Jul;7(5):543–7

Treatment of advanced breast cancer: current status. Piccart M. **Anticancer Drugs** 1996 Aug;7 Suppl 2:5–7 (15 ref.)

Treatment of patients resistant to anthracycline therapy. Ravdin PM. **Anticancer Drugs** 1996 Aug;7 Suppl 2:13–6

Interferon and hormone sensitivity of endocrine-related tumors. Sica G, et al. **Anticancer Drugs** 1996 Feb; 7(2):150–60 (80 ref.)

Bendamustine hydrochloride activity against doxorubicin-resistant human breast carcinoma cell lines. Strumberg D, et al. **Anticancer Drugs** 1996 Jun;7(4):415–21

First-line treatment of metastatic breast cancer. Trudeau ME. **Anticancer Drugs** 1996 Aug;7 Suppl 2:9–12

Prognostic factors in metastatic breast cancer patients obtaining objective response or disease stabilization after first-line chemotherapy with epirubicin. Evidence for a positive effect of maintenance hormonal therapy on overall survival. Berruti A, et al. **Anticancer Res** 1997 Jul-Aug; 17(4A):2763–8

Antitumor and chemopreventive effects of a clomiphene analog, MDL 103,323, in mammary carcinoma. Bitonti AJ, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2553–7

Effect of neoadjuvant chemotherapy on Ki67 labelling index, c-erbB-2 expression and steroid hormone receptor status in human breast tumours. Bottini A, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3105–10

Activity of a mycobacterial antineoplastic glycan against human breast cancer. Donmez C, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):445–50

Vinorelbine as palliative therapy in advanced breast cancer. Gasco M, et al. **Anticancer Res** 1997 Mar-Apr; 17(2B):1431–3

Methionine starvation modulates the efficacy of cisplatin on human breast cancer in nude mice. Hoshiya Y, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3515–7

Multidisciplinary treatment with anthracyclines in inflammatory breast cancer. Iino Y, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3111–5

Response to second line chemo-endocrine treatment may prolong the overall survival of advanced breast cancer patients. Nomura Y. **Anticancer Res** 1997 Mar-Apr; 17(2B):1425–30

Endometrial cancer after tamoxifen treatment: a descriptive study of 25 breast cancer patients who subsequently developed endometrial cancer. Peters-Engl C, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3241–6

Serum methionine depletion without side effects by methioninase in metastatic breast cancer patients. Tan Y, et al. **Anticancer Res** 1996 Nov-Dec;16(6C):3937–42

Clinical adrenal insufficiency in patients receiving megestrol therapy. Subramanian S, et al. **Arch Intern Med** 1997 May 12;157(9):1008–11

Activity and toxicity of docetaxel (Taxotere) in women with previously treated metastatic breast cancer. Shapiro JD, et al. **Aust N Z J Med** 1997 Feb;27(1):40–4

Curcumin and genistein, plant natural products, show synergistic inhibitory effects on the growth of human breast cancer MCF-7 cells induced by estrogenic pesticides. Verma SP, et al. **Biochem Biophys Res Commun** 1997 Apr

28;233(3):692–6

Sensitization to doxorubicin resistance in breast cancer cell lines by tamoxifen and megestrol acetate. Panasci L, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1097–102

Retinoic acid inhibits growth of breast cancer cells in the short-term but not the long-term. Stephen R, et al. **Biochem Soc Trans** 1996 Aug;24(3):365S

The significance of tumor contamination in the bone marrow from high-risk primary breast cancer patients treated with high-dose chemotherapy and hematopoietic support. Vredenburgh JJ, et al. **Biol Blood Marrow Transplant** 1997 Jun;3(2):91–7

Collection of peripheral blood stem cells following administration of paclitaxel, cyclophosphamide, and filgrastim in patients with breast and ovarian cancer. Weaver CH, et al. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):83–90

Immunological and side effects of low sc recombinant interleukin-2 dose in addition to conventional treatment in relapsed breast and colorectal cancer patients. Nicolini A, et al. **Biomed Pharmacother** 1996;50(8):344–9

Treating breast cancer before surgery [editorial] [see comments] Epstein R. **BMJ** 1996 Nov 30;313(7069):1345–6 . Comment in: BMJ 1997 Mar 8;314(7082):755.

Clodronate decreases the frequency of skeletal metastases in women with breast cancer. Kanis JA, et al. **Bone** 1996 Dec; 19(6):663–7

Effects of oral clodronate on bone mineral density in patients with relapsing breast cancer. Rizzoli R, et al. **Bone** 1996 Jun;18(6):531–7

High-dose chemotherapy with AHPCS for the treatment of breast cancer. The University of Colorado results. Cagnoni PJ, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S26–9 (25 ref.)

High-dose busulfan and cyclophosphamide followed by autologous transplantation in patients with advanced breast cancer. Demirer T, et al. **Bone Marrow Transplant** 1996 May;17(5):769–74

High-dose therapy for the treatment of breast cancer: evaluation of effect of regimen on outcome. Fields KK, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S30–3

Thrombotic microangiopathy as a complication of high-dose chemotherapy for breast cancer. Fisher DC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):193–8

High dose mitoxantrone with thiotepa, cyclophosphamide and autologous stem cell rescue for high risk stage II and stage III breast cancer. German GABG-4/EH-93-Study. Zander AR, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S24–5

High-dose mitoxantrone with peripheral blood progenitor cell rescue: toxicity, pharmacokinetics and implications for dosage and schedule. Ballestrero A, et al. **Br J Cancer** 1997; 76(6):797–804

High-dose carboplatin, etoposide and melphalan (CEM) with peripheral blood progenitor cell support as late intensification for high-risk cancer: non-haematological, haematological toxicities and role of growth factor administration. Benedetti Panici P, et al. **Br J Cancer** 1997; 75(8):1205–12

Changes in expression of transforming growth factor beta mRNA isoforms in patients undergoing tamoxifen therapy [letter; comment] Benson JR, et al. **Br J Cancer** 1997; 75(5):776–8. Comment on: Br J Cancer 1996 Aug;74(3):474–8.

Less efficacy with alternating regimen as adjuvant chemotherapy in stage II node-positive breast cancer: results at 8 years (Pronacam 85). Chacon R, et al. **Br J Cancer** 1997;76(4):545–50

High-dose chemotherapy of metastatic breast cancer: the end of the beginning? [editorial] Crown J. **Br J Cancer** 1997; 75(4):467–9

Extracellular nucleotides stimulate proliferation in MCF-7 breast cancer cells via P2-purinoceptors. Dixon CJ, et al. **Br J Cancer** 1997;75(1):34–9

Weekly doxorubicin and continuous infusional 5-fluorouracil for advanced breast cancer. Gabra H, et al. **Br J Cancer** 1996 Dec;74(12):2008–12

Influence of anastrozole (Arimidex), a selective, non-steroidal aromatase inhibitor, on in vivo aromatisation and plasma oestrogen levels in postmenopausal women with breast cancer. Geisler J, et al. **Br J Cancer** 1996 Oct; 74(8):1286–91

Continuous infusion or subcutaneous injection of granulocyte-macrophage colony-stimulating factor: increased efficacy and reduced toxicity when given subcutaneously. Honkoop AH, et al. **Br J Cancer** 1996 Oct; 74(7):1132–6

Effective treatment of advanced breast cancer with vinorelbine, mitomycin C plus human granulocyte colony-stimulating factor. Kornek GV, et al. **Br J Cancer** 1996 Nov;74(10):1668–73

Primary chemotherapy in breast invasive carcinoma: predictive value of the immunohistochemical detection of hormonal receptors, p53, c-erbB-2, MiB1, pS2 and GST pi. MacGrogan G, et al. **Br J Cancer** 1996 Nov; 74(9):1458–65

Multicentre phase II pharmacological evaluation of rhizoxin. Eortc early clinical studies (ECSG)/pharmacology and molecular mechanisms (PAMM) groups. McLeod HL, et al. **Br J Cancer** 1996 Dec;74(12):1944–8

Collection of circulating progenitor cells after epirubicin, paclitaxel and filgrastim in patients with metastatic breast cancer. Pedrazzoli P, et al. **Br J Cancer** 1997;75(9):1368–72

Plasminogen activator inhibitor-1 (PAI-1) is not related to response to neoadjuvant chemotherapy in breast cancer. Pierga JY, et al. **Br J Cancer** 1997;76(4):537–40

Comparison of toremifene and tamoxifen in post-menopausal patients with advanced breast cancer: a randomized double-blind, the 'nordic' phase III study. Pyrhönen S, et al. **Br J Cancer** 1997;76(2):270–7

Haematological toxicity: a marker of adjuvant chemotherapy efficacy in stage II and III breast cancer. Saarto T, et al. **Br J Cancer** 1997;75(2):301–5

Clodronate improves bone mineral density in post-menopausal breast cancer patients treated with adjuvant antioestrogens. Saarto T, et al. **Br J Cancer** 1997; 75(4):602–5

pS2 protein: a marker improving prediction of response to neoadjuvant tamoxifen in post-menopausal breast cancer patients. Soubeyran I, et al. **Br J Cancer** 1996 Oct; 74(7):1120–5

The pathophysiological mechanism of fluid retention in advanced cancer patients treated with docetaxel, but not receiving corticosteroid comedication. Béhar A, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):653–8

Docetaxel. Leahy M, et al. **Br J Hosp Med** 1997 Feb 19–Mar 4;57(4):141–4

MRI of breast cancer: influence of chemotherapy on sensitivity. Rieber A, et al. **Br J Radiol** 1997 May; 70(833):452–8

Anatomical basis of intra-arterial chemotherapy for patients with locally advanced breast cancer. Doughty JC, et al. **Br J Surg** 1996 Aug;83(8):1128–30

Does induction chemotherapy with a mitoxantrone/vinorelbine regimen allow a breast-conservative treatment in patients with operable locoregional breast cancer? A French Northern Oncology Group trial in 105 patients. French Northern Oncology Group. Adenis A, et al. **Breast Cancer Res Treat** 1996; 40(2):161–9

CeReS-18, a novel cell surface sialoglycopeptide, induces cell cycle arrest and apoptosis in a calcium-sensitive manner. Betz NA, et al. **Breast Cancer Res Treat** 1997 Jan; 42(2):137–48

Tumor proliferative activity and response to first-line chemotherapy in advanced breast carcinoma. Bonetti A, et al. **Breast Cancer Res Treat** 1996;38(3):289–97

P-glycoprotein: the intermediate end point of drug response to induction chemotherapy in locally advanced breast cancer. Chung HC, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):65–72

The effects of cyclosporin A, tamoxifen, and medroxyprogesterone acetate on the enhancement of adriamycin cytotoxicity in primary cultures of human breast epithelial cells. Claudio JA, et al. **Breast Cancer Res Treat** 1996;41(2):111–22

Salvage chemotherapy in metastatic breast cancer: an experience with the combination of mitoxantrone, 5-fluorouracil, and L-leucovorin. Colozza M, et al. **Breast Cancer Res Treat** 1996;38(3):277–82

Amenorrhea induced by adjuvant chemotherapy in early breast cancer patients: prognostic role and clinical implications. Del Mastro L, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):183–90 (43 ref.)

Anti-invasion drugs. Dickson RB, et al. **Breast Cancer Res Treat** 1996;38(1):121–32 (126 ref.)

Inhibition of hormone and growth factor responsive and resistant human breast cancer cells by CeReS-18, a cell regulatory sialoglycopeptide. Fattaey HK, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):125–36

Influence of circulating c-erbB-2 serum protein on response to adjuvant chemotherapy in node-positive breast cancer patients. Fehm T, et al. **Breast Cancer Res Treat** 1997 Mar; 43(1):87–95

Advanced breast cancer: a randomized study of doxorubicin or mitoxantrone in combination with cyclophosphamide and vincristine. Green JA, et al. **Breast Cancer Res Treat** 1996;39(2):155–63

Hepatic toxicity caused by adjuvant CMF/CNF in breast cancer patients and reversal by tamoxifen. Hirvikoski PP, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):269–74

Mitoxantrone dose augmentation utilizing filgrastim support in combination with fixed-dose 5-fluorouracil and leucovorin in women with metastatic breast cancer. Ingle JN, et al. **Breast Cancer Res Treat** 1997 May;43(3):193–200

William L. McGuire Memorial Lecture. Antiestrogens: mechanisms of action and resistance in breast cancer. Katzenellenbogen BS, et al. **Breast Cancer Res Treat** 1997 May;44(1):23–38 (96 ref.)

Femoral fractures in postmenopausal breast cancer patients treated with adjuvant tamoxifen. Kristensen B, et al. **Breast Cancer Res Treat** 1996;39(3):321–6

Weight gain associated with adjuvant tamoxifen therapy in stage I and II breast cancer: fact or artifact? Kumar NB, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):135–43

Heterogeneity of in vitro chemosensitivity in perioperative breast cancer cells to mitoxantrone versus doxorubicin evaluated by a microplate ATP bioluminescence assay. Kurbacher CM, et al. **Breast Cancer Res Treat** 1996; 41(2):161–70

Tamoxifen as initial endocrine therapy for metastatic breast cancer: long term follow-up of two Piedmont Oncology Association (POA) trials. Kuss JT, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):265–74

The significance of heregulin in breast cancer tumor progression and drug resistance. Lupu R, et al. **Breast Cancer Res Treat** 1996;38(1):57–66 (53 ref.)

Effects of short-term antiestrogen treatment of primary breast cancer on estrogen receptor mRNA and protein expression and on estrogen-regulated genes. McClelland RA, et al. **Breast Cancer Res Treat** 1996;41(1):31–41

Effects of tamoxifen on serum lipid and apolipoprotein levels in postmenopausal patients with breast cancer. Morales M, et al. **Breast Cancer Res Treat** 1996;40(3):265–70

The rise of tamoxifen: temporal and geographical trends of tamoxifen use in Ontario. Palda VA, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):33–41

Phase II study of vinorelbine and ifosfamide in anthracycline resistant metastatic breast cancer. Pronzato P, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):183–6

A prothrombotic state in breast cancer patients treated with adjuvant chemotherapy. Rella C, et al. **Breast Cancer Res Treat** 1996;40(2):151–9

Tamoxifen and interferon-beta for the treatment of metastatic breast cancer. Repetto L, et al. **Breast Cancer Res Treat** 1996;39(2):235–8

Modulation by lonidamine on the combined activity of cisplatin and epidoxorubicin in human breast cancer cells. Silvestrini R, et al. **Breast Cancer Res Treat** 1997 Jan; 42(2):103–12

Combination chemotherapy with cyclophosphamide, vincristine, adriamycin, and dexamethasone (CVAD) plus oral quinine and verapamil in patients with advanced breast cancer. Taylor CW, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):7–14

Vinorelbine: an active, non cross-resistant drug in advanced breast cancer. Results from a phase II study. Terenziani M, et al. **Breast Cancer Res Treat** 1996;39(3):285–91

Structure-activity relations of S-adenosylmethionine decarboxylase inhibitors on the growth of MCF-7 breast cancer cells. Thomas T, et al. **Breast Cancer Res Treat** 1996;39(3):293–306

Premenopausal node-negative breast cancer: may adjuvant chemotherapy be indicated by the analysis of nuclear DNA dynamics? Wyss-Desserich MT, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):253–63

Five-day infusion fluorouracil plus vinorelbine i.v. in metastatic pretreated breast cancer patients. Zambetti M, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):255–60

Controversy over high-dose chemotherapy [letter] Glück S. **Can Fam Physician** 1996 Jan;42:28, 30

High-dose chemotherapy of breast cancer. Crown J, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:80–2 (28 ref.)

Clinical trial design in metastatic breast cancer: a commentary. Levine M. **Can J Oncol** 1995 Dec;5 Suppl 1:40–2

Response to second-line chemotherapy in patients with metastatic breast carcinoma previously responsive to first-line treatment: prognostic factors. Brun B, et al. **Cancer** 1997 Jun 1;79(11):2137–46

A phase III trial comparing anastrozole (1 and 10 milligrams), a potent and selective aromatase inhibitor, with megestrol acetate in postmenopausal women with advanced breast carcinoma. Arimidex Study Group. Buzdar AU, et al. **Cancer** 1997 Feb 15;79(4):730–9

Phase II trial of tamoxifen, etoposide, mitoxantrone, and cisplatin in patients with metastatic breast carcinoma. Conzen SD, et al. **Cancer** 1996 Nov 1;78(9):1906–11

Mitoxantrone, 5-fluorouracil, and high dose leucovorin (NFL) versus intravenous cyclophosphamide, methotrexate, and 5-fluorouracil (CMF) in first-line chemotherapy for patients with metastatic breast carcinoma: a randomized phase II trial. Hainsworth JD, et al. **Cancer** 1997 Feb 15;79(4):740–8

A randomized phase II trial of two dosage levels of letrozole as third-line hormonal therapy for women with metastatic breast carcinoma. Ingle JN, et al. **Cancer** 1997 Jul 15; 80(2):218–24

Dienogest, a novel synthetic steroid, overcomes hormone-dependent cancer in a different manner than progestins. Katsuki Y, et al. **Cancer** 1997 Jan 1;79(1):169–76

Chemotherapy-induced neutropenia and fever in patients with metastatic breast carcinoma receiving salvage chemotherapy. Rahman Z, et al. **Cancer** 1997 Mar 15; 79(6):1150–7

High-dose chemotherapy with hematopoietic rescue in breast cancer: from theory to practice. Bezwoda WR. **Cancer Chemother Pharmacol** 1997;40 Suppl:S79–87 (33 ref.)

Vinorelbine-induced neurotoxicity in patients with advanced breast cancer pretreated with paclitaxel--a phase II study. Fazeny B, et al. **Cancer Chemother Pharmacol** 1996; 39(1-2):150–6

New concepts in the treatment of breast cancer using high-dose chemotherapy. Peters WP, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S88–93 (09 ref.)

Pharmacokinetics and clinical impact of all-trans retinoic acid in metastatic breast cancer: a phase II trial. Sutton LM, et al. **Cancer Chemother Pharmacol** 1997;40(4):335–41

High-dose chemotherapy with autologous hematopoietic stem-cell transplantation in breast cancer. Tokuda Y, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S94–9

A feasibility study of 1-h paclitaxel infusion in patients with solid tumors. Tsavaris N, et al. **Cancer Chemother Pharmacol** 1997;40(4):353–7

Erythropoietin and granulocyte-macrophage colony-stimulating factor allow acceleration and dose escalation of cyclophosphamide/epidoxorubicin/5-fluorouracil chemotherapy: a dose-finding study in patients with advanced breast cancer. Venturini M, et al. **Cancer Chemother Pharmacol** 1996;38(6):487-94

Enzyme/prodrug gene therapy approach for breast cancer using a recombinant adenovirus expressing Escherichia coli cytosine deaminase. Li Z, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):113-7

Neurobiochemical changes from Taxol/Neupogen chemotherapy for metastatic breast carcinoma corresponds with suicidal depression. Cousins JP, et al. **Cancer Lett** 1996 Dec 20;110(1-2):163-7

Growth inhibition of MCF-7 and MCF-10A human breast cells by alpha-tocopheryl hemisuccinate, cholesteryl hemisuccinate and their ether analogs. Djuric Z, et al. **Cancer Lett** 1997 Jan 1;111(1-2):133-9

The growth inhibitory effect of conjugated linoleic acid on MCF-7 cells is related to estrogen response system. Durgam VR, et al. **Cancer Lett** 1997 Jun 24;116(2):121-30

Nocturnal 5-fluorouracil infusion to patients with breast cancer prior to surgery: appearance of 5-fluorouracil-induced AgNORs aggregation (FAA). Furuya Y, et al. **Cancer Lett** 1997 Jun 3;116(1):79-84

The Annonaceous acetogenin bullatacin is cytotoxic against multidrug-resistant human mammary adenocarcinoma cells. Oberlies NH, et al. **Cancer Lett** 1997 May 1; 115(1):73-9

Inhibition of proliferation of estrogen receptor-positive MCF-7 human breast cancer cells by flavonoids in the presence and absence of excess estrogen. So FV, et al. **Cancer Lett** 1997 Jan 30;112(2):127-33

Synergistic effect between doxorubicin and a low dose of all-trans-retinoic acid in MCF-7 breast cancer cell line. Toma S, et al. **Cancer Lett** 1997 Jun 3;116(1):103-10

Effect of N-(4-hydroxyphenyl)retinamide on apoptosis in human breast cancer cells. Wang TT, et al. **Cancer Lett** 1996 Oct 1;107(1):65-71

Tumor growth inhibition, apoptosis, and Bcl-2 down-regulation of MCF-7ras tumors by sodium phenylacetate and tamoxifen combination. Adam L, et al. **Cancer Res** 1997 Mar 15;57(6):1023-9

A permanently charged tamoxifen derivative displays anticancer activity and improved tissue selectivity in rodents. Biegon A, et al. **Cancer Res** 1996 Oct 1; 56(19):4328-31

Insulin-like growth factor 1 (IGF-1) alters drug sensitivity of HBL100 human breast cancer cells by inhibition of apoptosis induced by diverse anticancer drugs. Dunn SE, et al. **Cancer Res** 1997 Jul 1;57(13):2687-93

Tamoxifen-induced DNA adducts in endometrial samples from breast cancer patients. Hemminki K, et al. **Cancer Res** 1996 Oct 1;56(19):4374-7

Correspondence re: K. Hemminki et al., Tamoxifen-induced DNA adducts in endometrial samples from breast cancer patients. Cancer Res., 56: 4374-4377, 1996 [letter] Orton TC, et al. **Cancer Res** 1997 Sep 15;57(18):4148

In vivo activity of 4-methylcoumarin-7-O-sulfamate, a nonsteroidal, nonestrogenic steroid sulfatase inhibitor. Purohit A, et al. **Cancer Res** 1996 Nov 1;56(21):4950-5

Acquisition of an antiestrogen-resistant phenotype in breast cancer: role of cellular and molecular mechanisms. Clarke R, et al. **Cancer Treat Res** 1996;87:263-83 (121 ref.)

Antiprogestin-progesterone interactions. Michna H, et al. **Cancer Treat Res** 1996;83:191-212 (99 ref.)

Antiestrogen-estrogen receptor interactions. Parker MG. **Cancer Treat Res** 1996;83:213-24 (52 ref.)

Primary chemotherapy for early breast cancer. Ellis PA, et al. **Cancer Treat Rev** 1996 Nov;22(6):437-50 (47 ref.)

Aromatase inhibitors and breast cancer. Miller WR. **Cancer Treat Rev** 1997 May;23(3):171-87 (112 ref.)

Differential influence of antiestrogens on the in vitro release of gelatinases (type IV collagenases) by invasive and non-invasive breast cancer cells. Abbas Abidi SM, et al. **Clin Exp Metastasis** 1997 Jul;15(4):432-9

Successful thrombolysis of SVC thrombosis associated with Hickman lines and continuous infusion chemotherapy. Bissett D, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):247-9

Thromboembolic events with paclitaxel [letter] [see comments] Chan AT, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(2):133. Comment in: Clin Oncol (R Coll Radiol) 1996;8(5):341.

Citrobacter freundii and fatal neutropenic enterocolitis following adjuvant chemotherapy for breast cancer. Clemons MJ, et al. **Clin Oncol (R Coll Radiol)** 1997; 9(3):172-5

Comparison of mitozantrone and epirubicin in advanced breast cancer. Cook AM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):363-6

A durable response to cytarabine in advanced breast cancer. Czaykowski PM, et al. **Clin Oncol (R Coll Radiol)** 1997; 9(3):181-3

A phase II study of single agent paclitaxel in patients at first relapse following initial chemotherapy for breast cancer. Davidson NG, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(6):358-62

The optimal duration of adjuvant tamoxifen treatment for breast cancer remains uncertain: randomize into aTTom [editorial] Earl H, et al. **Clin Oncol (R Coll Radiol)** 1997; 9(3):141-3

An acute toxicity study on the effects of synchronous chemotherapy and radiotherapy in early stage breast cancer after conservative surgery. Fernando IN, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):234-8

Interstitial pneumonitis as a late complication of high dose therapy with cyclophosphamide/thiotepa and peripheral blood progenitor cell rescue for carcinoma of the breast. Mahendra P, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(3):198-200

A pharmacoeconomic evaluation of the use of dexrazoxane in preventing anthracycline-induced cardiotoxicity in patients with stage IIIB or IV metastatic breast cancer. Bates M, et al. **Clin Ther** 1997 Jan-Feb;19(1):167-84

Neoadjuvant progesterone therapy for primary breast cancer: rationale for a clinical trial. Jatoi I. **Clin Ther** 1997 Jan-Feb; 19(1):56-61; discussion 2-3

Mechanisms of action of endocrine treatment in breast cancer. Lønning E, et al. **Crit Rev Oncol Hematol** 1995 Nov;21(1-3):158-93 (510 ref.)

Adjuvant systemic therapy for breast cancer. Piccart MJ, et al. **Curr Opin Oncol** 1996 Nov;8(6):478-84 (52 ref.)

Endocrine treatment of breast cancer. Fahey TJ Jr. **Curr Ther Endocrinol Metab** 1997;6:593-8 (7 ref.)

Pathological assessment in patients receiving primary medical therapy for breast cancer [editorial] Trott PA. **Cytopathology** 1996 Apr;7(2):75-7 (16 ref.)

Paclitaxel and docetaxel in breast and ovarian cancer. **Drug Ther Bull** 1997 Jun;35(6):43-6 (34 ref.)

New aromatase inhibitors for breast cancer. **Drug Ther Bull** 1997 Jul;35(7):55-6 (11 ref.)

Epirubicin. An updated review of its pharmacodynamic and pharmacokinetic properties and therapeutic efficacy in the management of breast cancer. Coukell AJ, et al. **Drugs** 1997 Mar;53(3):453-82 (146 ref.)

Breast cancer therapies in development. A review of their pharmacology and clinical potential. de Valeriola D, et al. **Drugs** 1997 Sep;54(3):385-413 (247 ref.)

Toremifene. A review of its pharmacological properties and clinical efficacy in the management of advanced breast cancer. Wiseman LR, et al. **Drugs** 1997 Jul;54(1):141-60 (117 ref.)

Oral idarubicin. A review of its pharmacological properties and clinical efficacy in the treatment of haematological malignancies and advanced breast cancer. Buckley MM, et al. **Drugs Aging** 1997 Jul;11(1):61-86 (125 ref.)

Formestane. A review of its pharmacological properties and clinical efficacy in the treatment of postmenopausal breast cancer. Wiseman LR, et al. **Drugs Aging** 1996 Oct; 9(4):292-306 (71 ref.)

Influence of Ukrain on breast cancer. Brzosko WJ, et al. **Drugs Exp Clin Res** 1996;22(3-5):127-33

Influence of Ukrain on patients with surgically treated breast cancer. Part III. The immune system. Fomin KA, et al. **Drugs Exp Clin Res** 1996;22(3-5):143-5

Ukrain therapy of recurrent breast cancer with lung metastases (case report). Kadan P, et al. **Drugs Exp Clin Res** 1996;22(3-5):243-5

Amino acids and their derivatives in tumour tissue from patients with breast cancer treated with Ukrain. Part VI. Nefyodov LI, et al. **Drugs Exp Clin Res** 1996; 22(3-5):159-61

Amino acids and their derivatives in blood plasma of patients with breast cancer treated with Ukrain. Part V. Nefyodov LI, et al. **Drugs Exp Clin Res** 1996;22(3-5):155-7

Biophysiological effects of Ukrain therapy in a patient with breast cancer (case report). Schramm E, et al. **Drugs Exp Clin Res** 1996;22(3-5):247-54

Influence of Ukrain on patients with surgically treated breast cancer. Part IV. Electromicroscopic and cytochemical evaluation. Uglyanica KN, et al. **Drugs Exp Clin Res** 1996; 22(3-5):147-53

Influence of Ukrain on patients with surgically treated breast cancer. Part II. Hormonal profile. Uglyanica KN, et al. **Drugs Exp Clin Res** 1996;22(3-5):139-41

Influence of Ukrain on patients with surgically treated breast cancer. Part I. Clinical and laboratory parameters. Uglyanica KN, et al. **Drugs Exp Clin Res** 1996; 22(3-5):135-8

Influence of Ukrain on patients with surgically treated breast cancer (introductory remarks). Uglyanica KN, et al. **Drugs Exp Clin Res** 1996;22(3-5):123-5

EORTC-IDBBC (Investigational Drug Branch for Breast Cancer): 5 years of European collaboration in new drug development for breast cancer. Awada A, et al. **Eur J Cancer** 1997 Jul;33(8):1173-6

p21WAF1 and p53 immunohistochemical expression in breast carcinoma may predict therapeutic response to adjuvant treatment [letter] Barbareschi M, et al. **Eur J Cancer** 1996 Nov;32A(12):2182-3

Combination of oral idarubicin and prednimustine in advanced breast cancer: a phase II study. Barnadas A, et al. **Eur J Cancer** 1997 Feb;33(2):312-5

Possible deleterious effect of tamoxifen in premenopausal women with locoregional recurrence of breast cancer. Borner MM, et al. **Eur J Cancer** 1996 Nov;32A(12):2173-6

Examination of multidrug resistance in cell lines and primary breast tumours by flow cytometry. Brotherick I, et al. **Eur J Cancer** 1996 Dec;32A(13):2334-41

Advanced breast cancer: investigational role of gemcitabine. Carmichael J, et al. **Eur J Cancer** 1997 Jan;33 Suppl 1:S27-30 (37 ref.)

Clinical and pathological response to primary chemotherapy in operable breast cancer. Chollet P, et al. **Eur J Cancer** 1997 May;33(6):862-6

Vinorelbine in pregnancy [letter] Cuvier C, et al. **Eur J Cancer** 1997 Jan;33(1):168-9

EO9 phase II study in advanced breast, gastric, pancreatic and colorectal carcinoma by the EORTC Early Clinical Studies Group [see comments] Dirix LY, et al. **Eur J Cancer** 1996 Oct;32A(11):2019-22. Comment in: Eur J Cancer 1996 Oct;32A(11):1833-4.

Treatment with formestane alone and in combination with aminoglutethimide in heavily pretreated breast cancer patients: clinical and endocrine effects. Geisler J, et al. **Eur J Cancer** 1996 May;32A(5):789-92

Tandem high-dose therapy with ifosfamide, epirubicin, carboplatin and peripheral blood stem cell support is an effective adjuvant treatment for high-risk primary breast cancer. Haas R, et al. **Eur J Cancer** 1997 Mar;33(3):372-8

Mixing anthracyclines and radiotherapy in early breast cancer: how safe is it? [corrected and republished in Eur J Cancer 1996 Dec;32A(13):2374-7] HjiYiannakis P, et al. **Eur J Cancer** 1996 Oct;32A(11):1845-8 (41 ref.)

Mixing anthracyclines and radiotherapy in early breast cancer: how safe is it? [corrected and republished article originally printed in Eur J Cancer 1996 Oct;32A(11):1845-8] HjiYiannakis P, et al. **Eur J Cancer** 1996 Dec;32A(13):2374-7 (41 ref.)

Influence of drug exposure parameters on the activity of paclitaxel in multicellular spheroids. Nicholson KM, et al. **Eur J Cancer** 1997 Jul;33(8):1291-8

A pilot study to evaluate paclitaxel (Taxol) as primary medical treatment for patients with inoperable stage III and IV breast carcinoma. Rees CN, et al. **Eur J Cancer** 1996 Dec;32A(13):2354-6

A randomised phase III cross-over study of tamoxifen versus megestrol acetate in advanced and recurrent breast cancer. Stuart NS, et al. **Eur J Cancer** 1996 Oct;32A(11):1888-92

Characterisation of complete responders to combination chemotherapy for advanced breast cancer: a retrospective EORTC Breast Group study. Tomiak E, et al. **Eur J Cancer** 1996 Oct;32A(11):1876-87

The toxicity of radiotherapy following high-dose chemotherapy with peripheral blood stem cell support in high-risk breast cancer: a preliminary analysis. van der Wall E, et al. **Eur J Cancer** 1996 Aug;32A(9):1490-7

Cost-effectiveness of adjuvant chemotherapy with cyclophosphamide + methotrexate + fluorouracil in patients with node-positive breast cancer [published erratum appears in Eur J Clin Pharmacol 1997;51(5):427] Messori A, et al. **Eur J Clin Pharmacol** 1996;51(2):111-6

Carboplatin plus etoposide regimen in advanced breast cancer. A phase II study. Deltetto F, et al. **Eur J Gynaecol Oncol** 1997;18(3):185-7

Metastatic breast carcinoma manifesting as postmenopausal uterine bleeding in a patient on tamoxifen therapy. Maymon R, et al. **Eur J Gynaecol Oncol** 1996;17(4):319-21

Ultrasonographic appearance of endometrium in postmenopausal breast cancer patients receiving tamoxifen. Beşe T, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug; 67(2):157-62

LHRH agonist treatment of breast cancer and gynecological malignancies: a review. Burger CW, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Jul;67(1):27-33 (74 ref.)

Eclampsia after polychemotherapy for nodal-positive breast cancer during pregnancy. Müller T, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug;67(2):197-8

The case for high-dose adjuvant chemotherapy in breast cancer: (I) theoretical considerations. Cameron DA, et al. **Eur J Surg Oncol** 1996 Oct;22(5):540-2

The case for high-dose adjuvant chemotherapy in breast cancer: (II) clinical experience. Cameron DA, et al. **Eur J Surg Oncol** 1996 Dec;22(6):634-7 (47 ref.)

Surgical complications related to peri-operative adjuvant chemotherapy in breast cancer. Results of a prospective, controlled, randomized clinical trial. Canavese G, et al. **Eur J Surg Oncol** 1997 Feb;23(1):10-2

Effects of recombinant human interleukin-11 (Neumega rhIL-11 growth factor) on megakaryocytopoiesis in human bone marrow. Orazi A, et al. **Exp Hematol** 1996 Sep; 24(11):1289-97

Dose intensification and breast cancer. Khayat D, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:153-77 (130 ref.)

Different coexisting endometrial histological features in asymptomatic postmenopausal breast cancer patients treated with tamoxifen. Cohen I, et al. **Gynecol Obstet Invest** 1997;43(1):60-3

Screening by ultrasonography for endometrial carcinoma in postmenopausal breast cancer patients under adjuvant tamoxifen. Cecchini S, et al. **Gynecol Oncol** 1996 Mar; 60(3):409-11

Comparison of endometrial changes among symptomatic tamoxifen-treated and nontreated premenopausal and postmenopausal breast cancer patients. Cheng WF, et al. **Gynecol Oncol** 1997 Aug;66(2):233-7

Ovarian volume in postmenopausal breast cancer patients treated with tamoxifen. Cohen I, et al. **Gynecol Oncol** 1997 Jan;64(1):105-8

Estrogen and progesterone receptors in the endometrium of postmenopausal breast cancer patients treated with tamoxifen and progestogens. Cohen I, et al. **Gynecol Oncol** 1997 Apr;65(1):83-8

Value of sonohysterography in asymptomatic postmenopausal tamoxifen-treated patients. Tepper R, et al. **Gynecol Oncol** 1997 Mar;64(3):386–91

Hope and the limits of research. Daugherty CK, et al. **Hastings Cent Rep** 1996 Sep–Oct;26(5):20; discussion 20–2

The effects of chemotherapy on breast cancer tissue in locally advanced breast cancer [see comments] Aktepe F, et al. **Histopathology** 1996 Jul;29(1):63–7. Comment in: Histopathology 1997 Apr;30(4):397–8.

Effects of chemotherapy on breast cancer tissue [letter; comment] Miller KE, et al. **Histopathology** 1997 Apr; 30(4):397–8. Comment on: Histopathology 1996 Jul;29(1):63–7.

Sex hormones in postmenopausal women with breast cancer on tamoxifen. Kostoglou-Athanassiou I, et al. **Horm Res** 1997;47(3):116–20

Use of safety-modified retroviruses to introduce chemotherapy resistance sequences into normal hematopoietic cells for chemoprotection during the therapy of breast cancer: a pilot trial. Deisseroth AB, et al. **Hum Gene Ther** 1996 Feb 10;7(3):401–16

False positive tumor markers: elevation in patients with breast cancer on FAC-type chemotherapy and correlation with the development of hand-foot syndrome. Tyshler LB, et al. **Int J Biol Markers** 1996 Oct–Dec;11(4):203–6

Modulatory effect of tamoxifen and ICI 182,780 on adriamycin resistance in MCF-7 human breast-cancer cells. De Vincenzo R, et al. **Int J Cancer** 1996 Nov 4;68(3):340–8

Identification of a novel breast-cancer-anti-estrogen-resistance (BCAR2) locus by cell-fusion-mediated gene transfer in human breast-cancer cells. Dorssers LC, et al. **Int J Cancer** 1997 Aug 7; 72(4):700–5

Induction of apoptosis by tamoxifen and ICI 182780 in primary breast cancer. Ellis PA, et al. **Int J Cancer** 1997 Aug 7;72(4):608–13

Intra-tumoral application of a heregulin-exotoxin-a fusion protein causes rapid tumor regression without adverse systemic or local effects. Groner B, et al. **Int J Cancer** 1997 Mar 17;70(6):682–7

Expression of drug resistance proteins in breast cancer, in relation to chemotherapy. Linn SC, et al. **Int J Cancer** 1997 May 29;71(5):787–95

Angiogenesis does not predict clinical response to doxorubicin monotherapy in patients with locally advanced breast cancer [letter] Paulsen T, et al. **Int J Cancer** 1997 Feb 20;74(1):138–40

Therapeutic approach to ovarian cysts in tamoxifen-treated women with breast cancer. Shushan A, et al. **Int J Gynaecol Obstet** 1996 Mar;52(3):249–53

Common endometrial decidual reaction in postmenopausal breast cancer patients treated with tamoxifen and progestogens. Cohen I, et al. **Int J Gynecol Pathol** 1996 Jan;15(1):17–22

Long-term follow-up of axillary node-positive breast cancer patients receiving adjuvant systemic therapy alone: patterns of recurrence. Fisher BJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):541–50

Extracapsular axillary node extension in patients receiving adjuvant systemic therapy: an indication for radiotherapy? Fisher BJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):551–9

Octreotide as first-line treatment for women with metastatic breast cancer. Ingle JN, et al. **Invest New Drugs** 1996; 14(2):235–7

Comparison of the antitumor activity of gemcitabine and ara-C in a panel of human breast, colon, lung and pancreatic xenograft models. Merriman RL, et al. **Invest New Drugs** 1996;14(3):243–7

Somatostatin analogs: angiogenesis inhibitors with novel mechanisms of action. Woltering EA, et al. **Invest New Drugs** 1997;15(1):77–86 (03 ref.)

Transvaginal sonographic and hysteroscopic findings in postmenopausal women receiving tamoxifen. Marconi D, et al. **J Am Assoc Gynecol Laparosc** 1997 May;4(3):331–9

Novel progesterone target genes identified by an improved differential display technique suggest that progestin-induced growth inhibition of breast cancer cells coincides with enhancement of differentiation. Kester HA, et al. **J Biol Chem** 1997 Jun 27;272(26):16637–43

Administration of the bisphosphonate ibandronate (BM 21.0955) by intravenous bolus injection. Pecherstorfer M, et al. **J Bone Miner Res** 1996 May;11(5):587–93

Immunocytochemical detection of P-glycoprotein in the management of malignant effusions. Athanassiadou P, et al. **J Cancer Res Clin Oncol** 1997;123(8):456–60

Cell-cycle arrest, micronucleus formation, and cell death in growth inhibition of MCF-7 breast cancer cells by tamoxifen and cisplatin. Otto AM, et al. **J Cancer Res Clin Oncol** 1996;122(10):603–12

Clinical development plan: 9-cis-retinoic acid. **J Cell Biochem Suppl** 1996;26:158–67

In vitro effects of lithium chloride on TNF alpha and IL-6 production by monocytes from breast cancer patients. Arena A, et al. **J Chemother** 1997 Jun;9(3):219–26

Single 8 mg dose of oral ondansetron failed to prevent FAC chemotherapy-induced acute nausea and vomiting. Bosnjak SM, et al. **J Chemother** 1996 Aug;8(4):315–8

Long-term toxicity in adjuvant treatment with tamoxifen. Cobelli S, et al. **J Chemother** 1997 Aug;9(4):300–3

Ifosfamide, mesna and epirubicin as second-line chemotherapy in advanced breast cancer. Kiraz S, et al. **J Chemother** 1996 Aug;8(4):310–4

Does verapamil help overcome multidrug resistance in tumor cell lines and cancer patients? Timcheva CV, et al. **J Chemother** 1996 Aug;8(4):295–9

Effects of treatment with megestrol acetate, aminoglutethimide, or formestane on insulin-like growth factor (IGF) I and II, IGF-binding proteins (IGFBPs), and IGFBP-3 protease status in patients with advanced breast cancer. Frost VJ, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2216–21

Effectiveness of adjuvant chemotherapy in combination with tamoxifen for node-positive postmenopausal breast cancer patients. International Breast Cancer Study Group. **J Clin Oncol** 1997 Apr;15(4):1385–94

Two doses of paclitaxel and statistical analysis: try, try, try again [letter; comment] Akerley W. **J Clin Oncol** 1997 Jan; 15(1):408–9. Comment on: J Clin Oncol 1996 Jun;14(6):1858–67.

Hormonal therapy prolongs survival in irradiated locally advanced breast cancer: a European Organization for Research and Treatment of Cancer Randomized Phase III Trial. Bartelink H, et al. **J Clin Oncol** 1997 Jan;15(1):207–15

Medroxyprogesterone acetate addition or substitution for tamoxifen in advanced tamoxifen-resistant breast cancer: a phase III randomized trial. Australian-New Zealand Breast Cancer Trials Group. Byrne MJ, et al. **J Clin Oncol** 1997 Sep;15(9):3141–8

Overview of randomized perioperative polychemotherapy trials in women with early-stage breast cancer. Clahsen PC, et al. **J Clin Oncol** 1997 Jul;15(7):2526–35

Mobilization of peripheral-blood progenitor cells with high-dose etoposide and granulocyte colony-stimulating factor in patients with breast cancer, non-Hodgkin's lymphoma, and Hodgkin's disease. Copelan EA, et al. **J Clin Oncol** 1997 Feb;15(2):759–65

Bisphosphonate risedronate prevents bone loss in women with artificial menopause due to chemotherapy of breast cancer: a double-blind, placebo-controlled study. Delmas PD, et al. **J Clin Oncol** 1997 Mar;15(3):955–62

Effect of different chemotherapy regimens on peripheral-blood stem-cell collections in patients with breast cancer receiving granulocyte colony-stimulating factor. Demirer T, et al. **J Clin Oncol** 1997 Feb; 15(2):684–90

Treatment-related leukemia in breast cancer patients treated with fluorouracil-doxorubicin-cyclophosphamide combination adjuvant chemotherapy: the University of Texas M.D. Anderson Cancer Center experience. Diamandidou E, et al. **J Clin Oncol** 1996 Oct; 14(10):2722–30

Efficacy and tolerance of vinorelbine and fluorouracil combination as first-line chemotherapy of advanced breast cancer: results of a phase II study using a sequential group method. Dieras V, et al. **J Clin Oncol** 1996 Dec; 14(12):3097–104

bcl-2, p53, and response to tamoxifen in estrogen receptor-positive metastatic breast cancer: a Southwest Oncology Group study. Elledge RM, et al. **J Clin Oncol** 1997 May;15(5):1916–22

Effect of preoperative chemotherapy on local-regional disease in women with operable breast cancer: findings from National Surgical Adjuvant Breast and Bowel Project B-18 [see comments] Fisher B, et al. **J Clin Oncol** 1997 Jul;15(7):2483–93. Comment in: J Clin Oncol 1997 Jul;15(7):2479–82.

Efficacy, toxicity, and applicability of high-dose sequential chemotherapy as adjuvant treatment in operable breast cancer with 10 or more involved axillary nodes: five-year results. Gianni AM, et al. **J Clin Oncol** 1997 Jun; 15(6):2312–21

Reappraisal of the role of axillary lymph node dissection in the conservative treatment of breast cancer [see comments] Haffty BG, et al. **J Clin Oncol** 1997 Feb;15(2):691–700. Comment in: J Clin Oncol 1997 Jun;15(6):2476–7. Comment in: J Clin Oncol 1997 Aug;15(8):3023–4.

Sequence-dependent alteration of doxorubicin pharmacokinetics by paclitaxel in a phase I study of paclitaxel and doxorubicin in patients with metastatic breast cancer. Holmes FA, et al. **J Clin Oncol** 1996 Oct; 14(10):2713–21

Randomized double-blind prospective trial to evaluate the effects of sargramostim versus placebo in a moderate-dose fluorouracil, doxorubicin, and cyclophosphamide adjuvant chemotherapy program for stage II and III breast cancer. Jones SE, et al. **J Clin Oncol** 1996 Nov;14(11):2976–83

Loss of estrogen receptor in recurrent breast cancer is associated with poor response to endocrine therapy [see comments] Kuukasjärvi T, et al. **J Clin Oncol** 1996 Sep; 14(9):2584–9. Comment in: J Clin Oncol 1997 Feb;15(2):862.

Comparative study of dose escalation versus interval reduction to obtain dose-intensification of epirubicin and cyclophosphamide with granulocyte colony-stimulating factor in advanced breast cancer. Lalisang RI, et al. **J Clin Oncol** 1997 Apr;15(4):1367–76

Dose-intensive vinorelbine with concurrent granulocyte colony-stimulating factor support in paclitaxel-refractory metastatic breast cancer. Livingston RB, et al. **J Clin Oncol** 1997 Apr;15(4):1395–400

Response to commentary on endometrial cancer deaths in tamoxifen-treated breast cancer patients [letter; comment] Patterson JS, et al. **J Clin Oncol** 1996 Oct;14(10):2886–7. Comment on: J Clin Oncol 1996 Mar;14(3):1027–39.

Phase II study of the progesterone antagonist mifepristone in patients with untreated metastatic breast carcinoma: a National Cancer Institute of Canada Clinical Trials Group study. Perrault D, et al. **J Clin Oncol** 1996 Oct; 14(10):2709–12

Corticosteroids significantly delay the onset of docetaxel-induced fluid retention: final results of a randomized study of the European Organization for Research and Treatment of Cancer Investigational Drug Branch for Breast Cancer. Piccart MJ, et al. **J Clin Oncol** 1997 Sep;15(9):3149–55

Randomized trial of cyclophosphamide, methotrexate, and fluorouracil chemotherapy added to tamoxifen as adjuvant therapy in postmenopausal women with node-positive estrogen and/or progesterone receptor-positive breast cancer: a report of the National Cancer Institute of Canada Clinical Trials Group. Breast Cancer Site Group. Pritchard KI, et al. **J Clin Oncol** 1997 Jun;15(6):2302–11

Increased thromboembolic complications with concurrent tamoxifen and chemotherapy in a randomized trial of adjuvant therapy for women with breast cancer. National Cancer Institute of Canada Clinical Trials Group Breast Cancer Site Group. Pritchard KI, et al. **J Clin Oncol** 1996 Oct;14(10):2731–7

Preoperative chemotherapy and breast-conserving therapy: why not everyone? [editorial; comment] Recht A. **J Clin Oncol** 1997 Jul;15(7):2479–82. Comment on: J Clin Oncol 1997 Jul;15(7):2483–93.

Relationship between toxicity and obesity in women receiving adjuvant chemotherapy for breast cancer: results from cancer and leukemia group B study 8541. Rosner GL, et al. **J Clin Oncol** 1996 Nov;14(11):3000–8

Perioperative chemotherapy versus adjuvant hormonal therapy in breast cancer: claimed benefits [letter; comment] Rostom AY, et al. **J Clin Oncol** 1996 Oct;14(10):2885–6. Comment on: J Clin Oncol 1996 Mar;14(3):745–53.

Megestrol acetate and aminoglutethimide/hydrocortisone in sequence or in combination as second-line endocrine therapy of estrogen receptor-positive metastatic breast cancer: a Southwest Oncology Group phase III trial. Russell CA, et al. **J Clin Oncol** 1997 Jul;15(7):2494–501

Chemical castration induced by adjuvant cyclophosphamide, methotrexate, and fluorouracil chemotherapy causes rapid bone loss that is reduced by clodronate: a randomized study in premenopausal breast cancer patients. Saarto T, et al. **J Clin Oncol** 1997 Apr;15(4):1341–7

Adjuvant chemotherapy in operable breast cancer: cyclophosphamide, methotrexate, and fluorouracil versus chlorambucil, methotrexate, and fluorouracil—11-year results of Swiss Group for Clinical Cancer Research trial SAKK 27/82. Senn HJ, et al. **J Clin Oncol** 1997 Jul; 15(7):2502–9

Repetitive cycles of cyclophosphamide, thiotepa, and carboplatin intensification with peripheral-blood progenitor cells and filgrastim in advanced breast cancer patients. Shapiro CL, et al. **J Clin Oncol** 1997 Feb; 15(2):674–83

Phase II trial of biweekly paclitaxel and cisplatin in advanced breast carcinoma: an Eastern Cooperative Oncology Group study. Sparano JA, et al. **J Clin Oncol** 1997 May; 15(5):1880–4

Phase I trial of high-dose mitoxantrone plus cyclophosphamide and filgrastim in patients with advanced breast carcinoma [published erratum appears in J Clin Oncol 1996 Dec;14(12):3175] Sparano JA, et al. **J Clin Oncol** 1996 Sep;14(9):2576–83

Cyclophosphamide and fluorouracil combined with mitoxantrone versus doxorubicin for breast cancer: superiority of doxorubicin. Stewart DJ, et al. **J Clin Oncol** 1997 May;15(5):1897–905

Cardioprotection with dexrazoxane for doxorubicin-containing therapy in advanced breast cancer. Swain SM, et al. **J Clin Oncol** 1997 Apr;15(4):1318–32

Delayed administration of dexrazoxane provides cardioprotection for patients with advanced breast cancer treated with doxorubicin-containing therapy. Swain SM, et al. **J Clin Oncol** 1997 Apr;15(4):1333–40

Multicenter randomized controlled clinical trial to evaluate cardioprotection of dexrazoxane versus no cardioprotection in women receiving epirubicin chemotherapy for advanced breast cancer. Venturini M, et al. **J Clin Oncol** 1996 Dec; 14(12):3112–20

Blood coagulation during adjuvant epirubicin/cyclophosphamide chemotherapy in patients with primary operable breast cancer. von Tempelhoff GF, et al. **J Clin Oncol** 1996 Sep;14(9):2560–8

Steroid hormone receptors and antineoplastic chemotherapy in human breast cancer. Görlich M, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):95–103 (59 ref.)

MVP (mitomycin-C, vinblastine, cisplatin) salvage chemotherapy for relapsed and refractory metastatic breast cancer. Hsu C, et al. **J Formos Med Assoc** 1997 Mar; 96(3):185–8

Phase II study of recombinant alpha-interferon (rIFN alpha) and continuous-infusion 5-fluorouracil in metastatic breast cancer. Walters RS, et al. **J Immunother Emphasis Tumor Immunol** 1995 Oct; 18(3):185–7

Treatment of metastatic breast cancer by navelbine, mitoxantrone and continuous infusion 5-fluorouracil (FMN regimen): results of a pilot study. Azim HA.

J Infus Chemother 1996 Spring;6(2):102–6

Continuous infusion 5–fluorouracil as first–line therapy for metastatic breast cancer. Chu L, et al. **J Infus Chemother** 1996 Fall;6(4):211–6

Randomized trial comparing conventional intravenous bolus FEC and FEC with high–dose infusional 5–fluorouracil as first–line treatment of advanced breast cancer. Hebbar M, et al. **J Infus Chemother** 1995 Fall;5(4):201–5

Weekly high–dose infusional 5–fluorouracil (HD–5–FU) combinations in the treatment of advanced breast cancer: results of phase I/II studies with weekly 24–hour infusion of HD–5–FU plus high–dose folinic acid (FA) alone and in combination with paclitaxel and cisplatin. Klaassen U, et al. **J Infus Chemother** 1996 Summer;6(3):127–32 (34 ref.)

Randomized trial comparing two different modalities of administration of the same cytotoxic drugs in metastatic breast cancer. Pierga JY, et al. **J Infus Chemother** 1995 Fall;5(4):197–200

Protracted infusional chemotherapy in breast cancer: the Royal Marsden Hospital experience. Smith IE. **J Infus Chemother** 1995 Fall;5(4):206–7

Dose–intensified treatment of breast cancer: current results. von Schilling C, et al. **J Mol Med** 1995 Dec;73(12):611–27 (155 ref.)

Randomized trial of two versus five years of adjuvant tamoxifen for postmenopausal early stage breast cancer. Swedish Breast Cancer Cooperative Group [see comments] **J Natl Cancer Inst** 1996 Nov 6;88(21):1543–9. Comment in: J Natl Cancer Inst 1996 Nov 6;88(21):1510–2. Comment in: J Natl Cancer Inst 1997 May 7;89(9):659–60.

Preliminary results from the cancer research campaign trial evaluating tamoxifen duration in women aged fifty years or older with breast cancer. Current Trials working Party of the Cancer Research Campaign Breast Cancer Trials Group [see comments] [published erratum appears in J Natl Cancer Inst 1997 Apr 16;89(8):590] **J Natl Cancer Inst** 1996 Dec 18;88(24):1834–9. Comment in: J Natl Cancer Inst 1996 Dec 18;88(24):1791–3.

Re: second cancers after adjuvant tamoxifen therapy for breast cancer [letter; comment] Atkins CD. **J Natl Cancer Inst** 1996 Oct 16;88(20):1496–7; discussion, 1497–9. Comment on: J Natl Cancer Inst 1996 Jun 19;88(12):832–4.

Re: Severe neurotoxicity in vinorelbine–paclitaxel combinations [letter; comment] Budman DR, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):87–8. Comment on: J Natl Cancer Inst 1996 Aug 7;88(15):1079–80.

Second cancers after adjuvant tamoxifen therapy for breast cancer [letter; comment] Cook LS, et al. **J Natl Cancer Inst** 1997 May 7;89(9):657–9. Comment on: J Natl Cancer Inst 1996 Jun 19;88(12):832–4.

Coronary heart disease mortality and adjuvant tamoxifen therapy [see comments] Costantino JP, et al. **J Natl Cancer Inst** 1997 Jun 4;89(11):776–82. Comment in: J Natl Cancer Inst 1997 Jun 4;89(11):747–9.

Five versus more than five years of tamoxifen therapy for breast cancer patients with negative lymph nodes and estrogen receptor–positive tumors [see comments] Fisher B, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1529–42. Comment in: J Natl Cancer Inst 1996 Nov 6;88(21):1510–2.

Tamoxifen: the herald of a new era of preventive therapeutics [editorial; comment] Jordan VC. **J Natl Cancer Inst** 1997 Jun 4;89(11):747–9. Comment on: J Natl Cancer Inst 1997 Jun 4;89(11):776–82.

Multidrug resistance in breast cancer—is the jury in yet? [editorial; comment] Kaye SB. **J Natl Cancer Inst** 1997 Jul 2;89(13):902–3. Comment on: J Natl Cancer Inst 1997 Jul 2;89(13):917–31.

Randomized trial of two versus five years of adjuvant tamoxifen for postmenopausal early stage breast cancer [letter; comment] Machin D, et al. **J Natl Cancer Inst** 1997 May 7;89(9):659–60. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1543–9.

Chemotherapy benefits nearly all early breast cancer patients [news] McNeil C. **J Natl Cancer Inst** 1997 Jun 18; 89(12):838–9

Epidermal growth factor receptor family and chemosensitization [editorial; comment] Mendelsohn J, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):341–3 (45 ref.). Comment on: J Natl Cancer Inst 1997 Mar 5;89(5):365–73.

Five years of tamoxifen—or more? [editorial; comment] Peto R. **J Natl Cancer Inst** 1996 Dec 18;88(24):1791–3. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1571–9.

Re: Adverse effect on bone marrow protection of prechemotherapy granulocyte colony–stimulating factor support [letter; comment] Ribas A, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):395–6. Comment on: J Natl Cancer Inst 1996 Oct 2;88(19):1393–8.

Antiproliferative action of vitamin D–related compounds and insulin–like growth factor–binding protein 5 accumulation. Rozen F, et al. **J Natl Cancer Inst** 1997 May 7;89(9):652–6

Re: second cancers after adjuvant tamoxifen therapy for breast cancer [letter; comment] Rutqvist LE. **J Natl Cancer Inst** 1996 Oct 16;88(20):1497–9; discussion, 1497–9. Comment on: J Natl Cancer Inst 1996 Jun 19;88(12):832–4.

Tamoxifen: the long and short of it [editorial; comment] Swain SM. **J Natl Cancer Inst** 1996 Nov 6;88(21):1510–2 . Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1529–43. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1543–9.

Postchemotherapy adjuvant tamoxifen therapy beyond five years in patients with lymph node–positive breast cancer. Eastern Cooperative Oncology Group [see comments] Tormey DC, et al. **J Natl Cancer Inst** 1996 Dec 18; 88(24):1828–33. Comment in: J Natl Cancer Inst 1996 Dec 18;88(24):1791–3.

Multidrug resistance in breast cancer: a meta–analysis of MDR1/gp170 expression and its possible functional significance [see comments] Trock BJ, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):917–31. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):902–3. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):904–5.

Vinorelbine neurotoxicity: clinical and neurophysiological findings in 23 patients. Pace A, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):409–11

Exacerbation of rheumatoid arthritis after termination of chemotherapy for breast carcinoma. Rosenstein ED, et al. **J Rheumatol** 1996 Nov;23(11):1988–90

Inhibitory effect of a novel non–steroidal aromatase inhibitor, YM511 on the proliferation of MCF–7 human breast cancer cell. Kudoh M, et al. **J Steroid Biochem Mol Biol** 1996 May;58(2):189–94

RU 58668: further in vitro and in vivo pharmacological data related to its antitumoral activity. Van de Velde P, et al. **J Steroid Biochem Mol Biol** 1996 Dec;59(5–6):449–57

Antitumor activity of paclitaxel against human breast carcinoma xenografts serially transplanted into nude mice. Kubota T, et al. **J Surg Oncol** 1997 Feb;64(2):115–21

Tamoxifen and endometrial cancer: tamoxifen effects on the human female genital tract. Jordan VC. **J Womens Health** 1997 Aug;6(4):486–7

Adjuvant cyclophosphamide, methotrexate and 5–fluorouracil versus cyclophosphamide plus futraful for premenopausal patients with stage I–II and one– to three–node–positive breast cancer: results of a prospective randomized study. Baba H, et al. **Keio J Med** 1996 Mar; 45(1):54–7

Renal function in high dose chemotherapy and autologous hematopoietic cell support treatment for breast cancer. Merouani A, et al. **Kidney Int** 1996 Sep;50(3):1026–31

Preoperative chemotherapy induces apoptosis in early breast cancer [letter] Ellis PA, et al. **Lancet** 1997 Mar 22; 349(9055):849

Multidrug resistance protein in recurrent breast cancer [letter] Nooter K, et al. **Lancet** 1997 Jun 28; 349(9069):1885–6

In vitro effects and localisation of the photosensitizers m–THPC and m–THPC MD on carcinoma cells of the human breast (MCF–7) and Chinese hamster fibroblasts (V–79). Hornung R, et al. **Lasers Surg Med** 1997; 20(4):443–50

Transvaginal ultrasonography and endometrial changes in postmenopausal breast cancer patients receiving tamoxifen. Dijkhuizen FP, et al. **Maturitas** 1996 Aug;25(1):45–50

The taxanes: miracles for breast cancer treatment or just more chemotherapy? [editorial; comment] Claringbold PG. **Med J Aust** 1997 May 19;166(10):518–9. Comment on: Med J Aust 1997 May 19;166(10):520–3.

Australian multicentre phase II trial of paclitaxel in women with metastatic breast cancer and prior chemotherapy [see comments] Michael M, et al. **Med J Aust** 1997 May 19; 166(10):520–3. Comment in: Med J Aust 1997 May 19;166(10):518–9.

Docetaxel (Taxotere) for advanced breast cancer. **Med Lett Drugs Ther** 1996 Sep 27;38(984):87–8 (0 ref.)

Correspondence re: Sharkey FE, Addington SL, Fowler LJ, Page CP. Effects of preoperative chemotherapy on the morphology of resectable breast carcinoma. Mod Pathol 1996;9:893–900 [letter; comment] Gilks CB. **Mod Pathol** 1997 Feb;10(2):155–6. Comment on: Mod Pathol 1996 Sep;9(9):893–900.

Design of an ideal hormone replacement therapy for women. Tonetti DA, et al. **Mol Carcinog** 1996 Nov;17(3):108–11 (21 ref.)

Involvement of activator protein–1 (AP–1) in induction of apoptosis by vitamin E succinate in human breast cancer cells. Zhao B, et al. **Mol Carcinog** 1997 Jul;19(3):180–90

Tamoxifen enhances interferon–regulated gene expression in breast cancer cells. Lindner DJ, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):169–77

CDK2 is a target for retinoic acid–mediated growth inhibition in MCF–7 human breast cancer cells. Teixeira C, et al. **Mol Endocrinol** 1997 Aug;11(9):1191–202

Stopping metastases at their source [editorial; comment] Hellman S. **N Engl J Med** 1997 Oct 2;337(14):996–7. Comment on: N Engl J Med 1997 Oct 2;337(14):949–55. Comment on: N Engl J Med 1997 Oct 2;337(14):956–62.

Postoperative radiotherapy in high–risk premenopausal women with breast cancer who receive adjuvant chemotherapy. Danish Breast Cancer Cooperative Group 82b Trial [see comments] Overgaard M, et al. **N Engl J Med** 1997 Oct 2;337(14):949–55. Comment in: N Engl J Med 1997 Oct 2;337(14):996–7.

Adjuvant radiotherapy and chemotherapy in node–positive premenopausal women with breast cancer [see comments] Ragaz J, et al. **N Engl J Med** 1997 Oct 2;337(14):956–62 . Comment in: N Engl J Med 1997 Oct 2;337(14):996–7.

Sequencing of chemotherapy and radiotherapy in breast cancer [letter; comment] Stark JJ. **N Engl J Med** 1996 Oct 17;335(16):1240. Comment on: N Engl J Med 1996 May 23;334(21):1356–61.

Identification of compounds with preferential inhibitory activity against low–Nm23–expressing human breast carcinoma and melanoma cell lines. Freije JM, et al. **Nat Med** 1997 Apr;3(4):395–401

Systemic adjuvant therapy for breast cancer. Reed EC. **Nebr Med J** 1996 Mar;81(3):48–50 (17 ref.)

Tamoxifen as primary treatment of breast cancer in elderly patients. Ciatto S, et al. **Neoplasma** 1996;43(1):43–5

Tamoxifen, balancing risks and benefits. Bergman L, et al. **Neth J Med** 1996 Dec;49(6):228–34 (33 ref.)

Magnetic resonance ventriculography with gadolinium DTPA: report of two cases. Siebner HR, et al. **Neuroradiology** 1997 Jun;39(6):418–22; discussion 422

Role of new selective aromatase inhibitor in therapy for metastatic breast cancer in postmenopausal women [news] Hannaford M. **Nurse Pract** 1997 Mar;22(3):195–6, 201–2 (21 ref.)

Iatrogenic endometrial megapolyps in women with breast carcinoma. Berezowsky J, et al. **Obstet Gynecol** 1994 Oct; 84(4 Pt 2):727–30

Granulosa cell tumor of the ovary associated with antecedent tamoxifen use. Gherman RB, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):717–9 (11 ref.)

Recurrent vulvovaginal candidiasis associated with long–term tamoxifen treatment in postmenopausal women. Sobel JD, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):704–6

Overexpression of c–erbB–2/neu in breast cancer cells confers increased resistance to Taxol via mdr–1–independent mechanisms. Yu D, et al. **Oncogene** 1996 Sep 19;13(6):1359–65

The tamoxifen controversy. Crabbe WW. **Oncol Nurs Forum** 1996 Jun;23(5):761–6 (32 ref.)

Transfection of a human topoisomerase II alpha gene into etoposide–resistant human breast tumor cells sensitizes the cells to etoposide. Asano T, et al. **Oncol Res** 1996; 8(3):101–10

Differential responsiveness of human breast cancer cells to basic fibroblast growth factor: a cell kinetics study. Delehedde M, et al. **Oncol Res** 1995;7(7–8):399–405

Effect of the antitumor drug lonidamine on glucose metabolism of adriamycin–sensitive and –resistant human breast cancer cells. Fanciulli M, et al. **Oncol Res** 1996; 8(3):111–20

Effects of OK–432 (picibanil) on the estrogen receptors of MCF–7 cells and potentiation of antiproliferative effects of tamoxifen in combination with OK–432. Aoyagi H, et al. **Oncology** 1997 Sep–Oct;54(5):414–23

A randomized phase II trial of two different schedules of mitomycin C and vinorelbine in pretreated breast cancer [letter] Colleoni M, et al. **Oncology** 1997 Sep–Oct; 54(5):438–9

Experience of Oncopaz Cooperative Group with oral fluoropyrimidines in tumors of the stomach, lung, head and neck, and breast. Feliu J, et al. **Oncology** 1997;54 Suppl 1:30–7

Weekly CAF chemotherapy for advanced breast cancer patients. Hwang WS, et al. **Oncology** 1997 Jul–Aug; 54(4):293–7

Effect of tamoxifen on pS2 expression in human breast cancers. Motomura K, et al. **Oncology** 1997 Sep–Oct; 54(5):424–8

First–line chemotherapy of advanced breast cancer with a combination of mitoxantrone, methotrexate, and vincristine (MIMO). Samonis G, et al. **Oncology** 1997 Sep–Oct; 54(5):371–5

A comparative, randomized trial of UFT and 5–fluorouracil in combination with cyclophosphamide and doxorubicin in the treatment of advanced breast cancer patients at The Philippines General Hospital. Villalon AH, et al. **Oncology** 1997;54 Suppl 1:2–6

DaunoXome shows promise as breast cancer treatment [news] **Oncology (Huntingt)** 1996 Mar;10(3):425

Oral vinorelbine promising and well tolerated in patients with advanced breast cancer [news] **Oncology (Huntingt)** 1997 Feb;11(2):255

Vinorelbine/paclitaxel combination studied in treatment of metastatic breast cancer patients. **Oncology (Huntingt)** 1995 Jun;9(6):518, 543

Growth factor allows effective dose–intensive regimen in advanced breast cancer patients [news] **Oncology (Huntingt)** 1995 Jul;9(7):684

Laser–drug combination may treat breast cancer without surgery [news] **Oncology (Huntingt)** 1997 Jan;11(1):60, 62

Antiangiogenesis strategies proving valuable against breast and prostate cancer [news] **Oncology (Huntingt)** 1997 Sep; 11(9):1358

Doxorubicin and paclitaxel (sequential combination) in the treatment of advanced breast cancer. Amadori D, et al. **Oncology (Huntingt)** 1997 Apr;11(4 Suppl 3):30–3

Risks and benefits of tamoxifen therapy. Assikis VJ, et al. **Oncology (Huntingt)** 1997 Feb;11(2 Suppl 1):21–3 (13 ref.)

HER2 overexpression and paclitaxel sensitivity in breast cancer: therapeutic implications. Baselga J, et al. **Oncology (Huntingt)** 1997 Mar;11(3 Suppl 2):43–8 (47 ref.)

Paclitaxel as first–line treatment for metastatic breast cancer. The Taxol Investigational Trials Group, Australia and New Zealand. Bishop JF, et al. **Oncology (Huntingt)** 1997 Apr; 11(4 Suppl 3):19–23 (43 ref.)

Clinical trials referral resource. Clinical trials in elderly patients. Cheson BD, et al. **Oncology (Huntingt)** 1997 Jun; 11(6):838, 844

Docetaxel in combination with doxorubicin: a phase I dose–finding study. Diéras V. **Oncology (Huntingt)** 1997 Jun;11(6 Suppl 6):17–20

Docetaxel combined with vinorelbine: phase I results and new study designs. Fumoleau P, et al. **Oncology (Huntingt)** 1997 Jun;11(6 Suppl 6):29–31

Phase III trials of toremifene vs tamoxifen. Gams R. **Oncology (Huntingt)** 1997 May;11(5 Suppl 4):23–8 (0 ref.)

High-dose toremifene vs tamoxifen in postmenopausal advanced breast cancer. Gershanovich M, et al. **Oncology (Huntingt)** 1997 May;11(5 Suppl 4):29–36

Phase I and II studies of toremifene. Hamm JT. **Oncology (Huntingt)** 1997 May;11(5 Suppl 4):19–22 (12 ref.)

Open phase II study of high-dose toremifene as first-line therapy for advanced breast cancer. Hietanen T, et al. **Oncology (Huntingt)** 1997 May;11(5 Suppl 4):37–40

Evolving role of toremifene in the adjuvant setting. Holli K. **Oncology (Huntingt)** 1997 May;11(5 Suppl 4):48–51

Docetaxel in breast cancer and a rationale for combination therapy. Hortobágyi G. **Oncology (Huntingt)** 1997 Jun;11(6 Suppl 6):11–5 (21 ref.)

Paclitaxel-based combination chemotherapy for breast cancer. Hortobagyi GN. **Oncology (Huntingt)** 1997 Mar; 11(3 Suppl 2):29–37 (54 ref.)

Sequential dose-dense adjuvant therapy with doxorubicin, paclitaxel, and cyclophosphamide. Hudis C. **Oncology (Huntingt)** 1997 Apr;11(4 Suppl 3):15–8 (25 ref.)

Tamoxifen treatment for breast cancer: concept to gold standard. Jordan VC. **Oncology (Huntingt)** 1997 Feb;11(2 Suppl 1):7–13 (51 ref.)

Infusional 5-FU, folinic acid, paclitaxel, and cisplatin for metastatic breast cancer. Klaassen U, et al. **Oncology (Huntingt)** 1997 Apr;11(4 Suppl 3):38–40

Paclitaxel and epirubicin as first-line therapy for patients with metastatic breast cancer. Lück HJ, et al. **Oncology (Huntingt)** 1997 Apr;11(4 Suppl 3):34–7

NSABP Protocol B-27. Preoperative doxorubicin plus cyclophosphamide followed by preoperative or postoperative docetaxel. Mamounas EP. **Oncology (Huntingt)** 1997 Jun;11(6 Suppl 6):37–40

Hormonal therapy of breast cancer: state of the art. Murphy B, et al. **Oncology (Huntingt)** 1997 May;11(5 Suppl 4):7–13 (63 ref.)

Docetaxel/doxorubicin/cyclophosphamide in the treatment of metastatic breast cancer. Nabholtz JM, et al. **Oncology (Huntingt)** 1997 Jun;11(6 Suppl 6):25–7

The international experience with docetaxel in the treatment of breast cancer. Ravdin PM. **Oncology (Huntingt)** 1997 Mar;11(3 Suppl 2):38–42 (30 ref.)

Tamoxifen's impact on the management of breast cancer: patient perspectives. Reichman BS. **Oncology (Huntingt)** 1997 Feb;11(2 Suppl 1):55–8 (14 ref.)

Clinical efficacy of tamoxifen. Robert NJ. **Oncology (Huntingt)** 1997 Feb;11(2 Suppl 1):15–20 (41 ref.)

A phase II study of doxorubicin/paclitaxel plus G-CSF for metastatic breast cancer. Schwartsmann G, et al. **Oncology (Huntingt)** 1997 Apr;11(4 Suppl 3):24–9

Paclitaxel for breast cancer: the Memorial Sloan-Kettering Cancer Center experience. Seidman AD, et al. **Oncology (Huntingt)** 1997 Mar;11(3 Suppl 2):20–8 (62 ref.)

Reliability of estrogen receptors in predicting response to antiestrogens. Valavaara R. **Oncology (Huntingt)** 1997 May; 11(5 Suppl 4):14–8 (49 ref.)

Morphologic effects of neoadjuvant chemotherapy in locally advanced breast cancer. Moll UM, et al. **Pathol Res Pract** 1997;193(3):187–96

Conditioned reactions to cancer chemotherapy: percent reinforcement predicts anticipatory nausea. Tomoyasu N, et al. **Physiol Behav** 1996 Feb;59(2):273–6

Pneumonitis complicating selective intra-arterial chemotherapy for locally advanced breast carcinoma. McLean AD, et al. **Postgrad Med J** 1996 Feb;72(844):117–8

Targeted antiestrogens. Tonetti DA, et al. **Prog Clin Biol Res** 1997;396:245–55 (41 ref.)

Side effects of adjuvant chemotherapy: perceptions of node-negative breast cancer patients. Beisecker A, et al. **Psychooncology** 1997 Jun;6(2):85–93

An exploratory study of frequent pain measurement in a cancer clinical trial. Ingham J, et al. **Qual Life Res** 1996 Oct;5(5):503–7

Hormones and growth factors in breast cancer. Bezwoda WR, et al. **S Afr Med J** 1995 Oct;85(10 Suppl):1101–6 (62 ref.)

The Fox Chase Cancer Center and Free University Hospital Investigators' Workshop and Consensus Conference on Paclitaxel. Part 1: Breast Cancer I. **Semin Oncol** 1996 Oct; 23(5 Suppl 11):1–70 (0 ref.)

The Fox Chase Cancer Center and Free University Hospital Investigators' Workshop and Consensus Conference on Paclitaxel. Part 4: Breast Cancer II. Marrakech, Morocco, January 18–20, 1996 and St Croix, US Virgin Islands, March 13–16, 1996. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S1–49, quiz S50–5 (0 ref.)

A phase I/II study of sequential doxorubicin and paclitaxel in the treatment of advanced breast cancer. Amadori D, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):16–22

Primary chemotherapy in operable breast cancer. Bonadonna G, et al. **Semin Oncol** 1996 Aug;23(4):464–74 (36 ref.)

Aromatase inhibitors and breast cancer. Brodie AM, et al. **Semin Oncol** 1996 Aug;23(4 Suppl 9):10–20 (118 ref.)

Paclitaxel-containing high-dose chemotherapy: the University of Colorado experience. Cagnoni PJ, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):43–8

Scientific review of tamoxifen. Overview from a medical oncologist. Carlson RW. **Semin Oncol** 1997 Feb;24(1 Suppl 1):S1-151–S1-7 (19 ref.)

Phase II activity of gemcitabine in advanced breast cancer. Carmichael J, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 10):77–81

Phase I studies of combined paclitaxel/epirubicin and paclitaxel/epirubicin/cyclophosphamide in patients with metastatic offast cancer: the French experience. Catimel G, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S8–12

Tamoxifen and endometrial cancer: tamoxifen effects on the human female genital tract. Cohen CJ. **Semin Oncol** 1997 Feb;24(1 Suppl 1):S1-55–S1-64 (61 ref.)

A dose-finding study of epirubicin in combination with paclitaxel in the treatment of advanced breast cancer. Conte PF, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):28–31

Paclitaxel combinations as front-line and salvage chemotherapy regimens in advanced breast cancer. Conte PF, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):39–42 (10 ref.)

Docetaxel and paclitaxel in breast cancer therapy: present status and future prospects. D'Andrea GM, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 13):S13-27–S13-44 (109 ref.)

Single-agent paclitaxel as first-line treatment of metastatic breast cancer: the British experience. Davidson NG. **Semin Oncol** 1996 Oct;23(5 Suppl 11):6–10

Doxorubicin and paclitaxel, a highly active combination in the treatment of metastatic breast cancer. Dombernowsky P, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):23–7

The control of breast cancer: the role of tamoxifen. Forbes JF. **Semin Oncol** 1997 Feb;24(1 Suppl 1):S1-5–S1-19 (33 ref.)

The sequential administration of combined doxorubicin and paclitaxel in the treatment of advanced breast cancer. Frassineti GL, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):22–8

Paclitaxel and doxorubicin in metastatic breast cancer. Gehl J, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):35–8 (17 ref.)

Experience at the Istituto Nazionale Tumori with paclitaxel in combination with doxorubicin in women with untreated breast cancer. Gianni L, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S1–3

Anthracycline resistance: the problem and its current definition. Gianni L. **Semin Oncol** 1997 Aug;24(4 Suppl 10):S10–11–S10–17 (36 ref.)

Paclitaxel combination therapy in the treatment of metastatic breast cancer: a review. Holmes FA. **Semin Oncol** 1996 Oct;23(5 Suppl 11):46–56 (55 ref.)

Paclitaxel combination therapy in the treatment of metastatic breast cancer. Holmes FA. **Semin Oncol** 1996 Oct;23(5 Suppl 12):29–39 (56 ref.)

Current management of advanced breast cancer. Hortobagyi GN, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):1–5 (21 ref.)

Optimal dosing of paclitaxel and doxorubicin in metastatic breast cancer. Hortobagyi GN, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S4–7 (20 ref.)

The University of Texas M.D. Anderson Cancer Center experience with paclitaxel in breast cancer. Hortobagyi GN, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S30–3 (17 ref.)

Introduction: taxoids and the management of breast cancer. Hortobagyi GN. **Semin Oncol** 1997 Aug;24(4 Suppl 13):S13–1–S13–2

Adjuvant drug therapy for operable breast cancer. Hudis CA, et al. **Semin Oncol** 1996 Aug;23(4):475–93 (99 ref.)

Paclitaxel, 5-fluorouracil, and folinic acid in metastatic breast cancer: BRE-26, a phase II trial. Johnson DH, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S22–5

Response to estramustine phosphate and paclitaxel in patients with advanced breast cancer: a phase I study. Keren-Rosenberg S, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S26–9

Docetaxel in combination chemotherapy for metastatic breast cancer. Khayat D, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 13):S13–19–S13–26 (30 ref.)

Introduction: new directions in anticancer chemotherapy. Khayat D. **Semin Oncol** 1997 Aug;24(4 Suppl 11):S11–1

Paclitaxel combined with weekly high-dose 5-fluorouracil/folinic acid and cisplatin in the treatment of advanced breast cancer. Klaassen U, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):32–7

Preliminary results of a phase II study of epirubicin and paclitaxel as first-line treatment in patients with metastatic breast cancer. Lück HJ, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S13–6

Paclitaxel in combination with vinorelbine in pretreated advanced breast cancer patients. Michelotti A, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):38–40

Conceptual basis for advances in the systemic drug therapy of breast cancer. Norton L. **Semin Oncol** 1997 Aug;24(4 Suppl 11):S11–2–S11–12 (50 ref.)

Evolving concepts in the systemic drug therapy of breast cancer. Norton L. **Semin Oncol** 1997 Aug;24(4 Suppl 10):S10–3–S10–10 (18 ref.)

Innovative approaches to the treatment of advanced breast cancer: introduction. Norton L, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 10):S10–1–S10–2

Aromatase inhibitors in the treatment of advanced breast cancer. Introduction. Osborne CK. **Semin Oncol** 1996 Aug; 23(4 Suppl 9):1

Treatment of advanced and relapsing breast cancer with a combination of paclitaxel and mitoxantrone. South-Central Hellenic Oncology Group. Panagos GE. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S17–21

Paclitaxel and carboplatin for advanced breast cancer. Perez EA, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):41–5 (38 ref.)

Future perspectives of docetaxel (Taxotere) in front-line therapy. Piccart MJ, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 10):S10–27–S10–33 (41 ref.)

An ongoing European organization for research and treatment of cancer crossover trial comparing single-agent paclitaxel and doxorubicin as first- and second-line treatment of advanced breast cancer. Piccart-Gebhart MJ, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):11–5

Efficacy of tamoxifen as treatment of breast cancer. Powles TJ. **Semin Oncol** 1997 Feb;24(1 Suppl 1):S1–48–S1–54 (50 ref.)

Docetaxel (Taxotere) for the treatment of anthracycline-resistant breast cancer. Ravdin PM. **Semin Oncol** 1997 Aug;24(4 Suppl 10):S10–18–S10–21 (26 ref.)

Paclitaxel doublets in metastatic breast cancer: Eastern Cooperative Oncology Group and Hoosier Oncology Group Studies. Sledge GW Jr. **Semin Oncol** 1996 Oct;23(5 Suppl 11):57–9

Patient benefits from new treatment options and schedules for breast cancer. Smith IE. **Semin Oncol** 1997 Aug;24(4 Suppl 10):S10–22–S10–26 (15 ref.)

Adjuvant chemotherapy for breast cancer in pregnancy: can recommendations be made with confidence. Stevenson J, et al. **Semin Oncol** 1997 Apr;24(2):xxv–xxxvi; discussion xxxvi, xxxix

Docetaxel as single-agent therapy in metastatic breast cancer: clinical efficacy. Valero V. **Semin Oncol** 1997 Aug;24(4 Suppl 13):S13–11–S13–18 (39 ref.)

The taxoids: same roots, different drugs. Von Hoff DD. **Semin Oncol** 1997 Aug;24(4 Suppl 13):S13–3–S13–10 (53 ref.)

Does high-dose chemotherapy have a defined role in the treatment of solid tumors in 1997? Weaver CH, et al. **Semin Oncol** 1997 Aug;24(4):xxxi, xxxvii–xxxviii

Aromatase inhibitors: rationale for use following antiestrogen therapy. Yue W, et al. **Semin Oncol** 1996 Aug;23(4 Suppl 9):21–7

Future prospects of neoadjuvant chemotherapy in treatment of primary breast cancer. Wang HC, et al. **Semin Surg Oncol** 1996 Jan–Feb;12(1):59–66 (82 ref.)

High-dose chemotherapy with autologous stem cell rescue for breast cancer: yesterday, today and tomorrow. Brockstein BE, et al. **Stem Cells** 1996 Jan;14(1):79–89 (71 ref.)

5-Hydroxyindoleacetic acid excretion following combination chemotherapy with cyclophosphamide, epirubicin and 5-fluorouracil plus ondansetron compared to ondansetron alone. du Bois A, et al. **Support Care Cancer** 1996 Sep; 4(5):384–9

Acute and anticipatory emesis in breast cancer patients. Fernández-Marcos A, et al. **Support Care Cancer** 1996 Sep; 4(5):370–7

Scalp cooling in the prevention of alopecia in patients receiving depilating chemotherapy. Ron IG, et al. **Support Care Cancer** 1997 Mar;5(2):136–8

Abnormal vaginal bleeding from endometrial polyps in a woman receiving tamoxifen therapy for breast cancer: report of a case. Fujikawa T, et al. **Surg Today** 1997; 27(8):769–72

Effectiveness of an adriamycin immunoconjugate that recognizes the C-erbB-2 product on breast cancer cell lines. Jinno H, et al. **Surg Today** 1996;26(7):501–7

Oestrogen/growth factor cross-talk in breast carcinoma: a specific target for novel antioestrogens. de Cupis A, et al. **Trends Pharmacol Sci** 1997 Jul;18(7):245–51 (69 ref.)

Novel non-steroidal aromatase inhibitors: are there new perspectives in the treatment of breast cancer? Bajetta E, et al. **Tumori** 1996 Sep–Oct;82(5):417–22 (44 ref.)

Intermittent continuous infusion of fluorouracil and low-dose oral leucovorin in pretreated breast cancer: a pilot study. Colleoni M, et al. **Tumori** 1997 May–Jun;83(3):665–8

High-dose epirubicin in locally advanced operable noninflammatory breast cancer: a feasibility trial. Crivellari D, et al. **Tumori** 1997 May–Jun;83(3):656–60

Hydroxyurea did not enhance the clinical response to vinblastine in patients with anthracycline-resistant metastatic breast cancer. Huan SD, et al. **Tumori** 1996 Nov–Dec;82(6):576–8

Ifosfamide and etoposide in previously treated patients with advanced breast cancer. Kiraz S, et al. **Tumori** 1997 Mar–Apr;83(2):604–7

Paclitaxel activity in anthracycline refractory breast cancer patients. Vici P, et al. **Tumori** 1997 May–Jun;83(3):661–4

Combined effect of tamoxifen or interferon-beta and 4-hydroxyphenylretinamide on the growth of breast cancer cell lines. Coradini D, et al. **Tumour Biol** 1997;18(1):22–9

Tamoxifen and the uterus: an old drug tested by new modalities. Achiron R, et al. **Ultrasound Obstet Gynecol** 1996 May;7(5):374–8 (35 ref.)

Endometrial evaluation in postmenopausal breast cancer patients receiving tamoxifen: an ultrasound, color flow Doppler, hysteroscopic and histological study. Exacoustos C, et al. **Ultrasound Obstet Gynecol** 1995 Dec;6(6):435–42

Sonographic characteristics of adenofibroma of the endometrium following tamoxifen therapy for breast

cancer: two case reports. Huang KT, et al. **Ultrasound Obstet Gynecol** 1996 May;7(5):363–6

A study of the effects of tamoxifen in the frail elderly: difficulties encountered in nursing home research. Breuer B, et al. **Women Health** 1997;25(1):37–51

Primary chemotherapy in surgically resectable breast cancer: the experience of the Milan Cancer Institute. Valagussa P, et al. **Zentralbl Gynakol** 1996;118(10):571

[The adjuvant chemotherapy of N(–) patients with breast cancer—when is it indicated?] Deliiski T, et al. **Akush Ginekol (Sofiia)** 1996;35(4):20–1 (Eng. Abstr.) **(Bul)**

[The effect of long-term tamoxifen therapy on the occurrence of contralateral primary breast cancer] Xing B, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar; 18(2):143–5 (Eng. Abstr.) **(Chi)**

[Phase I clinical study of a new anticancer drug boanmycin] Feng F, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):143–6 (Eng. Abstr.) **(Chi)**

[Adjuvant tamoxifen treatment in breast cancer: is 5-year treatment sufficient?] Andersson M, et al. **Ugeskr Laeger** 1997 Jun 16;159(25):3968–9 **(Dan)**

[Hormone therapy in women treated for breast cancer (letter)] Ulrich LG. **Ugeskr Laeger** 1996 Sep 30; 158(40):5636–7 **(Dan)**

[Molecular aspects of different mechanisms of tamoxifen resistance] Bachmann-Moisson N, et al. **Bull Cancer** 1997 Jan;84(1):69–75 (62 ref.) (Eng. Abstr.) **(Fre)**

[First-line chemotherapy in operable breast neoplasms: results of 3 protocols] Cure H, et al. **Bull Cancer** 1997 Jan; 84(1):31–4 (Eng. Abstr.) **(Fre)**

[Tamoxifen adjuvant delays early breast cancer. Results of a cooperative randomized trial] Delozier T, et al. **Bull Cancer** 1997 Jan;84(1):25–30 (Eng. Abstr.) **(Fre)**

[A comparative study of 4 sequential first-line chemotherapy protocols in locally advanced breast cancer] Ferrero JM, et al. **Bull Cancer** 1997 Jan;84(1):10–6 (Eng. Abstr.) **(Fre)**

[Dose intensification of adjuvant chemotherapy in high-risk non-metastatic breast cancer: a critical review] Ganem G. **Bull Cancer** 1997 Jan;84(1):97–105 (84 ref.) (Eng. Abstr.) **(Fre)**

[Adjuvant chemotherapy with mitoxantrone, cyclophosphamide and 5-fluorouracil in breast neoplasms: therapeutic life] Genre D, et al. **Bull Cancer** 1997 Mar; 84(3):240–6 (Eng. Abstr.) **(Fre)**

[A phase II study with mitoxantrone-vinorelbine association in the treatment of advanced breast cancer in elderly women] Gladieff L, et al. **Bull Cancer** 1996 Sep;83(9):703–6 (Eng. Abstr.) **(Fre)**

[Contamination of cytapheresis by tumor cells: apropos of 39 breast cancer cases] Mozziconacci MJ, et al. **Bull Cancer** 1996 Aug;83(8):649–53 (Eng. Abstr.) **(Fre)**

[Endometrial cancer and tamoxifen. Discussion apropos of a series of cases] Sasco AJ, et al. **Bull Cancer** 1997 Jan; 84(1):51–60 (81 ref.) (Eng. Abstr.) **(Fre)**

[Pharmacokinetic profile of high-dose doxorubicin administered during a 6 h intravenous infusion in breast cancer patients] Wihlm J, et al. **Bull Cancer** 1997 Jun; 84(6):603–8 (Eng. Abstr.) **(Fre)**

[Hormone therapy of breast cancer in the metastatic phase in menopausal women] Namer M. **Presse Med** 1996 Nov 16;25(35):1745–53 (63 ref.) (Eng. Abstr.) **(Fre)**

[Adjuvant chemotherapy of breast cancer] Rouëssé J, et al. **Presse Med** 1996 Nov 16;25(35):1731–6 (21 ref.) (Eng. Abstr.) **(Fre)**

[Anatomoclinical conference: breast cancer, hyperleukocytosis and respiratory failure] Lemaitre F, et al. **Rev Med Brux** 1997 Apr;18(2):75–8 (Eng. Abstr.) **(Fre)**

[Systemic adjuvant therapy of breast cancer: myths and controversies] Roy JA, et al. **Rev Med Brux** 1996 Sep; 17(4):267–70 (Eng. Abstr.) **(Fre)**

[Selective oral aromatase suppression and thymidilate synthase inhibition] **Chirurg** 1997 Feb;68(2 Suppl):1–16 **(Ger)**

[Chemotherapy of ovarian and breast cancer with Taxol] **Dtsch Med Wochenschr** 1996 Dec;121(50 Suppl):1–12 **(Ger)**

[Occlusion of finger arteries and thrombotic angiopathy of the retina during adjuvant tamoxifen therapy of a mammary carcinoma] Schlich B, et al. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):783–6 (Eng. Abstr.) **(Ger)**

[Progress and perspectives in palliative therapy of breast carcinoma] Verlag GT. **Dtsch Med Wochenschr** 1996 Dec 6;121(49 Suppl):1–8 (0 ref.) **(Ger)**

[Navelbine (Vinorelbin)--current trends and results. Satellite-Symposium on occasion of the 22nd German Cancer Congress. Berlin, 20 February 1996] **Geburtshilfe Frauenheilkd** 1996 Apr;56(4 Suppl):1–4 **(Ger)**

[Topotecan--a new principle of effectiveness in oncology. 4th Salzburg Symposium on Quality of Life. 15–17 December 1995] **Geburtshilfe Frauenheilkd** 1996 Jun;56(6 Suppl):1–6 **(Ger)**

[Sequential course and prospective management of ifosfamide-induced multi-organ toxicity] Mollenkopf A, et al. **Geburtshilfe Frauenheilkd** 1996 Oct;56(10):525–8 (Eng. Abstr.) **(Ger)**

[Bisphosphonates in the treatment concept of metastatic breast carcinoma] Possinger K, et al. **Geburtshilfe Frauenheilkd** 1996 Jul;56(7):M91–4 (16 ref.) **(Ger)**

[Photodynamic laser therapy of advanced breast carcinomas] Schmidt S. **Geburtshilfe Frauenheilkd** 1996 Oct; 56(10):M153–6 **(Ger)**

[Significance of cytostatic drug dose in adjuvant chemotherapy of breast carcinoma] Thomssen C. **Geburtshilfe Frauenheilkd** 1996 Jul;56(7):M102–5 (20 ref.) **(Ger)**

[Paclitaxel in therapy of breast carcinoma. Value and perspectives] Klaassen U, et al. **Med Klin** 1996 Dec 15;91 Suppl 2:7–10 (31 ref.) **(Ger)**

[Adjuvant systemic therapy of breast carcinoma] Wickramanayake PD, et al. **Med Klin** 1996 Oct 15; 91(10):646–53 (92 ref.) **(Ger)**

Navelbine (Vinorelbin)--current trends and results. Satellite Symposium on occasion of the 22nd German Cancer Congress. Berlin, 20 February 1996] **Pneumologie** 1996 Apr; 50(4 Suppl):1–4 **(Ger)**

[Does tamoxifen have a negative effect on survival chances of premenopausal women with locoregional recurrence of breast carcinoma?] Sauer H. **Strahlenther Onkol** 1997 Jul; 173(7):390 **(Ger)**

[Sequencing of chemotherapy and radiotherapy following breast-preserving treatment of breast carcinoma] Sauer R, et al. **Strahlenther Onkol** 1996 Sep;172(9):516–7 **(Ger)**

[Questions and answers on adjuvant systemic therapy in breast carcinoma] Fey MF, et al. **Ther Umsch** 1996 Nov; 53(11):839–46 (20 ref.) (Eng. Abstr.) **(Ger)**

[Hormone therapy of metastasizing breast carcinoma] Hagen MF, et al. **Ther Umsch** 1996 Nov;53(11):820–8 (36 ref.) (Eng. Abstr.) **(Ger)**

[Intensification of chemotherapy dosage in metastatic breast carcinoma?] Brockmann B, et al. **Z Arztl Fortbild Qualitatssich** 1997 Mar;91(2):181–5 (Eng. Abstr.) **(Ger)**

[Bisphosphonates in anti-osteolytic therapy of metastasizing breast carcinoma] Diel IJ, et al. **Zentralbl Gynakol** 1996; 118(10):582–6 (20 ref.) (Eng. Abstr.) **(Ger)**

[Principle and foundations of high dose therapy with stem cell transplantation] Haas R, et al. **Zentralbl Gynakol** 1996; 118(10):575–7 **(Ger)**

[Response evaluation with mammography and ultrasound] Junkermann H, et al. **Zentralbl Gynakol** 1996;118(10):572–3 **(Ger)**

[Oral idarubicin in treatment of advanced breast carcinoma] Kerpel-Fronius S, et al. **Zentralbl Gynakol** 1996; 118(10):587–9 (5 ref.) (Eng. Abstr.) **(Ger)**

[Taxol] Kühnle H. **Zentralbl Gynakol** 1996;118(10):580 **(Ger)**

[Adjuvant CMF chemotherapy in patients with breast cancer--results on blood coagulation and fibrinolysis] Oberhoff C, et al. **Zentralbl Gynakol** 1997;119(5):211–7 (Eng. Abstr.) **(Ger)**

[Effectiveness and tolerance of Navoban (5HT3-receptor antagonist tropisetron) in prevention of cytostatic drug-induced nausea and vomiting in patients with breast carcinomas and gynecological malignancies] Regidor PA, et al. **Zentralbl Gynakol** 1996;118(3):148–53 (Eng. Abstr.) **(Ger)**

[Evaluation of left ventricular function in patients with mammary carcinoma after treatment with epidoxorubicin using a high-dose, short-term protocol] D'Alto M, et al. **Cardiologia** 1997 Jun;42(6):611–8 (Eng. Abstr.) **(Ita)**

[Intra-arterial chemotherapy in locally advanced or recurrent breast neoplasms] Morandi C, et al. **Radiol Med (Torino)** 1996 Jul-Aug;92(1-2):101–4 (Eng. Abstr.) **(Ita)**

[The alteration of PyNPase activity in breast cancers due to preoperative oral administration of 5'-DFUR] Akao S, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):685–90 (Eng. Abstr.) **(Jpn)**

[Adjuvant tamoxifen duration: more large-scale randomized evidence is needed] Davies C, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1203–9 (30 ref.) (Eng. Abstr.) **(Jpn)**

[A comparative study between low-dose and high-dose medroxyprogesterone acetate (MPA) in the treatment of advanced and recurrent breast cancer--in relation to dose, serum concentration and response. Osaka Breast Cancer Research Group] Furukawa J, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):815–21 (Eng. Abstr.) **(Jpn)**

[Neoadjuvant intra-arterial infusion chemotherapy in over stage III and inflammatory carcinoma of the breast] Higuchi K, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1533–6 (Eng. Abstr.) **(Jpn)**

[A case of a premenopausal woman with advanced breast cancer treated with aromatization inhibition in combination with luteinizing hormone-releasing hormone agonist] Hisamatsu K, et al. **Gan To Kagaku Ryoho** 1997 Aug; 24(10):1327–30 (Eng. Abstr.) **(Jpn)**

[The feasibility of CEF (cyclophosphamide, epirubicin, 5-FU) regimen in the adjuvant setting of primary breast cancer] Honda S, et al. **Gan To Kagaku Ryoho** 1997 Apr; 24(6):679–83 (Eng. Abstr.) **(Jpn)**

[Intra-arterial infusion chemotherapy for breast cancer] Matsumoto Y, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1526–8 (Eng. Abstr.) **(Jpn)**

[Benefits of adjuvant chemotherapy for breast cancer] Motomura K, et al. **Gan To Kagaku Ryoho** 1997 Aug; 24(10):1239–44 (Eng. Abstr.) **(Jpn)**

[Efficacy of implantable injection port for advanced breast cancer patients] Nakamura S, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1529–32 (Eng. Abstr.) **(Jpn)**

[A case of advanced breast cancer receiving combination therapy with 5'-DFUR and MPA with remarkable results] Nishibe M, et al. **Gan To Kagaku Ryoho** 1997 Jul; 24(9):1149–52 (Eng. Abstr.) **(Jpn)**

[Adriamycin--breast cancer] Nomura Y. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1911–5 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Echocardiographic evaluation of cardiotoxicity induced by anthracycline therapy] Okada Y, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):585–9 (Eng. Abstr.) **(Jpn)**

[CMF or CAF combination chemotherapy for breast cancer] Ota J. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1886–90 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Antiemetic efficacy of granisetron in repeated CAF chemotherapy after breast cancer operation] Park Y, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):573–7 (Eng. Abstr.) **(Jpn)**

[A clinical trial of neoadjuvant intraarterial chemotherapy for the treatment of locally advanced breast cancer] Takatsuka Y, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1523–5 (Eng. Abstr.) **(Jpn)**

[Fundamental studies on the surgical adjuvant chemotherapy to support the clinical efficacies] Tsukagoshi S. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1213–20 (12 ref.) (Eng. Abstr.) **(Jpn)**

[A case of lung metastasis from breast cancer successfully treated by FLEP (5-FU leucovorin, etoposide CDDP) combined arterial infusion chemotherapy] Tsuneda Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1582–4 (Eng. Abstr.) **(Jpn)**

[Complete tumor regression obtained by chemoendocrine therapy including toremifene in two cases of pulmonary metastasis of breast cancer with a history of tamoxifen treatment] Yamada Y, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1335–40 (Eng. Abstr.) **(Jpn)**

[Experience in treatment of patients with locally advanced or recurrent breast cancer: intraarterial infusion chemotherapy combined with radiotherapy] Murakami M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):189–94 (Eng. Abstr.) **(Jpn)**

[Mechanism of acquired antiestrogen resistance and its management in breast cancer] Iino Y, et al. **Nippon Rinsho** 1997 May;55(5):1149–54 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Results of tamoxifen treatment in patients with advanced breast cancer] Rolski J, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):271–3 (Eng. Abstr.) **(Pol)**

[Postoperative hormone therapy of breast cancer (analysis of overall survival)] Semiglazov VF, et al. **Vopr Onkol** 1996;42(6):37–42 (Eng. Abstr.) **(Rus)**

[Tamoxifen: modern drug therapy of estrogen-dependent breast tumors] Jovanović-Mićić D, et al. **Med Pregl** 1996; 49(7–8):287–90 (20 ref.) (Eng. Abstr.) **(Scr)**

[In search of Eldorado. Breast cancer and intensification therapy] Murillo Capitán E. **Med Clin (Barc)** 1996 Jun 15; 107(3):95–8 **(Spa)**

[High-dosage chemotherapy in breast cancer (letter; comment)] Sola C, et al. **Med Clin (Barc)** 1997 Mar 15; 108(10):398–9. Comment on: Med Clin (Barc) 1996 Jun 8;107(2):56–8. **(Spa)**

[Neoadjuvant (preoperative) chemotherapy in cancer of the breast] Shparik IaV. **Klin Khir** 1996;(8):38–42 (38 ref.) **(Ukr)**

ECONOMICS

Cost-effectiveness of stereotaxic breast core needle biopsy. Fajardo LL. **Acad Radiol** 1996 Apr;3 Suppl 1:S21–3

Cost-effectiveness of image-guided core needle biopsy versus surgery in diagnosing breast cancer. Nields MW. **Acad Radiol** 1996 Apr;3 Suppl 1:S138–40

A comparison of Medicare reimbursement and results for various imaging-guided breast biopsy techniques. Howisey RL, et al. **Am J Surg** 1997 May;173(5):395–8

Cost of breast cancer treatment. A 4-year longitudinal study. Legorreta AP, et al. **Arch Intern Med** 1996 Oct 28; 156(19):2197–201

Use of hospital services by breast cancer patients by stage of the disease: implications on the costs of cancer control. Kaija H, et al. **Breast Cancer Res Treat** 1996;37(3):237–41

Clinical surveillance for early stage breast cancer: an analysis of claims data. Simon MS, et al. **Breast Cancer Res Treat** 1996;40(2):119–28

Treatment of metastatic breast cancer--economic and ethical considerations. Richter G. **Cancer Invest** 1997;15(4):335–41 (33 ref.)

Estimating breast cancer treatment charges in Connecticut. Polednak AP, et al. **Conn Med** 1996 May;60(5):263–7

The economic impact of technical change in the local treatment of breast cancer. Kurdas C. **Int J Technol Assess Health Care** 1997 Winter;13(1):11–20

What are the benefits and costs of screening mammograms on Kentucky women aged 40–49? [editorial] Spratt JS, et al. **J Surg Oncol** 1996 Oct;63(2):71–6

How one company decides when to pay for experimental therapies [news] **Oncology (Huntingt)** 1995 Jul;9(7):666

[After care of breast cancer: tips for medical charges] Grebe W. **Fortschr Med** 1996 Feb 20;114(5):44, 46 **(Ger)**

[The study of cost effectiveness of breast cancer detection in Catalonia] Plans P, et al. **Rev Esp Salud Publica** 1996 Jan-Feb;70(1):15-23 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Histochemistry of therapeutically relevant enzymes in human tumours transplanted into severe combined immunodeficient (SCID) mice: nitric oxide synthase-associated diaphorase, beta-D-glucuronidase and non-specific alkaline phosphatase. Schumacher U, et al. **Acta Histochem** 1996 Nov;98(4):381-7

Expression of ALDH3 and NMO1 in human corneal epithelial and breast adenocarcinoma cells. Marks-Hull H, et al. **Adv Exp Med Biol** 1997;414:59-68

Telomerase expression in human breast cancer with and without lymph node metastases. Nawaz S, et al. **Am J Clin Pathol** 1997 May;107(5):542-7

Lysyl oxidase gene expression in the stromal reaction to in situ and invasive ductal breast carcinoma. Peyrol S, et al. **Am J Pathol** 1997 Feb;150(2):497-507

Occult deposition of eosinophil peroxidase in a subset of human breast carcinomas. Samoszuk MK, et al. **Am J Pathol** 1996 Mar;148(3):701-6

Correlation between low neuraminidase blood levels and a predisposition toward family-related breast cancer. Rothenberg RE, et al. **Am Surg** 1996 Nov;62(11):949-51

Cathepsin D concentration in tumor cytosols improves the accuracy of prognostic evaluation of primary breast cancer. Ardavanis A, et al. **Anticancer Res** 1997 Mar-Apr; 17(2B):1405-9

Effect of tibolone (Org OD14) and its metabolites on estrone sulphatase activity in MCF-7 and T-47D mammary cancer cells. Chetrite G, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):135-40

Protein tyrosine kinase activity in breast cancer and its relation to prognostic indicators. Kopreski MS, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3037-41

Immunohistochemical detection of cathepsin D in low grade breast invasive cancer. Lazaris AC, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2651-5

Characterization of a 15-lipoxygenase in human breast carcinoma BT-20 cells: stimulation of 13-HODE formation by TGF alpha/EGF. Reddy N, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):111-6

Identification of novel human tumor cell-specific CaMK-II variants. Tombes RM, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):281-92

Role of glucose-6-phosphate dehydrogenase inhibition in the antiproliferative effects of dehydroepiandrosterone on human breast cancer cells. Di Monaco M, et al. **Br J Cancer** 1997;75(4):589-92

DT-diaphorase and cytochrome B5 reductase in human lung and breast tumours. Marín A, et al. **Br J Cancer** 1997; 76(7):923-9

Time-varying prognostic impact of tumour biological factors urokinase (uPA), PAI-1 and steroid hormone receptor status in primary breast cancer. Schmitt M, et al. **Br J Cancer** 1997;76(3):306-11

Prognostic relevance of urokinase plasminogen activator detection in micrometastatic cells in the bone marrow of patients with primary breast cancer. Solomayer EF, et al. **Br J Cancer** 1997;76(6):812-8

Presence of endothelial calcium-dependent nitric oxide synthase in breast apocrine metaplasia. Tschugguel W, et al. **Br J Cancer** 1996 Nov;74(9):1423-6

Protein tyrosine kinase activity in 350 T1/T2, N0/N1 breast cancer. Preliminary results. Bolla M, et al. **Breast Cancer Res Treat** 1996;39(3):327-34

Cellular localisation by in situ hybridisation of cathepsin D, stromelysin 3, and urokinase plasminogen activator RNAs in breast cancer. Escot C, et al. **Breast Cancer Res Treat** 1996;38(2):217-26

Prognostic significance of PAI-1 and uPA in cytosolic extracts obtained from node-positive breast cancer patients. Grøndahl-Hansen J, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):153-63

Influence of estrogen metabolism on proliferation of human breast cancer. Imoto S, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):57-64

Distribution of stromelysin-3 mRNA transcripts and microvessels in human breast carcinomas. Linder C, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):207-13

Correlation of two methods for determination of cathepsin D in breast carcinoma (immunohistochemistry and ELISA in cytosol). Razumović JJ, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):117-22

Sequential production and activation of matrix-metalloproteinase-9 (MMP-9) with breast cancer progression. Rha SY, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):175-81

An enzyme-linked immunosorbent assay for the determination of src-family tyrosine kinase activity in breast cancer. Rijksen G, et al. **Breast Cancer Res Treat** 1996;39(2):139-45

Simultaneous expression of nitric oxide synthase and estrogen receptor in human breast cancer cell lines. Zeillinger R, et al. **Breast Cancer Res Treat** 1996;40(2):205-7

Multienzyme-mediated stable and transient multidrug resistance and collateral sensitivity induced by xenobiotics. Rekha GK, et al. **Cancer Chemother Pharmacol** 1997; 40(3):215-24

TGFbeta regulation of mitogen-activated protein kinases in human breast cancer cells. Frey RS, et al. **Cancer Lett** 1997 Jul 15;117(1):41-50

Kinetics of arylamine N-acetyltransferase in tissues from human breast cancer. Lee JH, et al. **Cancer Lett** 1997 Jan 1;111(1-2):39-50

Localization of O6-alkylguanine transferase in cancer susceptible cells of human female breast. Musarrat J, et al. **Cancer Lett** 1996 Nov 12;108(1):111-8

Enhanced expression of PP1 gamma 1, a catalytic subunit isoform of protein phosphatase type 1, in invasive ductal carcinoma of the breast. Sogawa K, et al. **Cancer Lett** 1997 Jan 30;112(2):263-8

Involvement of extracellular signal-regulated kinase 2 and stress-activated protein kinase/Jun N-terminal kinase activation by transforming growth factor beta in the negative growth control of breast cancer cells. Frey RS, et al. **Cancer Res** 1997 Feb 15;57(4):628-33

Telomerase activity is associated with cell cycle deregulation in human breast cancer. Landberg G, et al. **Cancer Res** 1997 Feb 1;57(3):549-54

Overexpression of manganese-containing superoxide dismutase confers resistance to the cytotoxicity of tumor necrosis factor alpha and/or hyperthermia. Li JJ, et al. **Cancer Res** 1997 May 15;57(10):1991-8

Inhibition of estrone sulfatase and proliferation of human breast cancer cells by nonsteroidal (p-O-sulfamoyl)-N-alkanoyl tyramines. Selcer KW, et al. **Cancer Res** 1997 Feb 15;57(4):702-7

Expression and tissue localization of membrane-types 1, 2, and 3 matrix metalloproteinases in human invasive breast carcinomas. Ueno H, et al. **Cancer Res** 1997 May 15; 57(10):2055-60

Stromelysin-3 and other stromelysins in breast cancer: importance of epithelial-stromal interactions during tumor progression. Basset P, et al. **Cancer Treat Res** 1996; 83:353-67 (69 ref.)

Protein kinase C and breast cancer. Davidson NE, et al. **Cancer Treat Res** 1996;83:91-105 (57 ref.)

Cathepsins D and B in breast cancer. Ren WP, et al. **Cancer Treat Res** 1996;83:325-52 (142 ref.)

Protein tyrosine phosphatases: cellular regulators of human breast cancer? Zhai YF, et al. **Cancer Treat Res** 1996; 83:107-25

Characterization of two different cytoplasmic protein tyrosine kinases from human breast cancer. Chedin M, et al. **Carcinogenesis** 1997 Aug;18(8):1463-72

Western immunoblotting and enzymatic activity analysis of cathepsin D in human breast cancer cell lines of different invasive potential. Regulation by 17beta-estradiol, tamoxifen and ICI 182,780. Couissi D, et al. **Clin Exp Metastasis** 1997 Jul;15(4):349-60

Sequential activation and production of matrix metalloproteinase-2 during breast cancer progression. Lee KS, et al. **Clin Exp Metastasis** 1996 Nov;14(6):512-9

Induction of membrane-type matrix metalloproteinase 1 (MT1-MMP) expression in human fibroblasts by breast adenocarcinoma cells. Polette M, et al. **Clin Exp Metastasis** 1997 Mar;15(2):157-63

Expression of cytochromes P450 in human breast tissue and tumors. Huang Z, et al. **Drug Metab Dispos** 1996 Aug; 24(8):899-905

Insulin-like growth factor binding protein (IGFBP)-3 protease activity secreted by MCF-7 breast cancer cells: inhibition by IGFs does not require IGF-IGFBP interaction. Salahifar H, et al. **Endocrinology** 1997 Apr; 138(4):1683-90

Enhanced stability of urokinase-type plasminogen activator mRNA in metastatic breast cancer MDA-MB-231 cells and LLC-PK1 cells down-regulated for protein kinase C--correlation with cytoplasmic heterogeneous nuclear ribonucleoprotein C. Nanbu R, et al. **Eur J Biochem** 1997 Jul 1;247(1):169-74

Immunoassays (ELISA) of urokinase-type plasminogen activator (uPA): report of an EORTC/BIOMED-1 workshop. Benraad TJ, et al. **Eur J Cancer** 1996 Jul; 32A(8):1371-81 (28 ref.)

Urokinase plasminogen activator, a strong independent prognostic factor in breast cancer, analysed in steroid receptor cytosols with a luminometric immunoassay. Fernö M, et al. **Eur J Cancer** 1996 May;32A(5):793-801

Elevation of protein kinase A and protein kinase C activities in malignant as compared with normal human breast tissue. Gordge PC, et al. **Eur J Cancer** 1996 Nov;32A(12):2120-6

Induction of metalloproteinase (MMP1) expression by epidermal growth factor (EGF) receptor stimulation and serum deprivation in human breast tumour cells. Nutt JE, et al. **Eur J Cancer** 1996 Nov;32A(12):2127-35

Alanine aminopeptidase activities in cancerous and non-cancerous human breast tissues [letter] Elgün S, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar;35(3):249

Tumor-associated urokinase-type plasminogen activator: significance in breast cancer. Torre EA, et al. **Eur J Gynaecol Oncol** 1996;17(4):315-8 (63 ref.)

Effects of cytotoxic drugs on translocation of nucleolar RNA helicase RH-II/Gu. Perlaky L, et al. **Exp Cell Res** 1997 Sep 15;235(2):413-20

Release of the aspartyl protease cathepsin D is associated with and facilitates human breast cancer cell invasion. Tedone T, et al. **FASEB J** 1997 Aug;11(10):785-92

Cathepsin D and prognosis in breast cancer: one piece of a larger puzzle? [editorial; comment] Emmert-Buck MR. **Hum Pathol** 1996 Sep;27(9):869-71 (23 ref.). Comment on: Hum Pathol 1996 Sep;27(9):890-5.

Cathepsin D in host stromal cells, but not in tumor cells, is associated with aggressive behavior in node-negative breast cancer [see comments] Nadji M, et al. **Hum Pathol** 1996 Sep;27(9):890-5. Comment in: Hum Pathol 1996 Sep;27(9):869-71.

A sensitive and robust assay for urokinase and tissue-type plasminogen activators (uPA and tPA) and their inhibitor type I (PAI-1) in breast tumor cytosols. Grebenschikov N, et al. **Int J Biol Markers** 1997 Jan-Mar;12(1):6-14

Pro-protein convertase gene expression in human breast cancer. Cheng M, et al. **Int J Cancer** 1997 Jun 11; 71(6):966-71

Epidermal growth factor and amphiregulin up-regulate matrix metalloproteinase-9 (MMP-9) in human breast cancer cells. Kondapaka SB, et al. **Int J Cancer** 1997 Mar 17;70(6):722-6

DNA-synthesis enzyme activity: a biological tool useful for predicting anti-metabolic drug sensitivity in breast cancer? Romain S, et al. **Int J Cancer** 1997 Apr 22;74(2):156-61

Protein phosphatase 2A inhibits nuclear telomerase activity in human breast cancer cells. Li H, et al. **J Biol Chem** 1997 Jul 4;272(27):16729-32

Characterization of a novel, membrane-bound, 80-kDa matrix-degrading protease from human breast cancer cells. Monoclonal antibody production, isolation, and localization. Lin CY, et al. **J Biol Chem** 1997 Apr 4; 272(14):9147-52

Increased phospholipase D activity in human breast cancer. Uchida N, et al. **J Cancer Res Clin Oncol** 1997;123(5):280-5

Use of alternative promoters to express the aromatase cytochrome P450 (CYP19) gene in breast adipose tissues of cancer-free and breast cancer patients. Agarwal VR, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3843-9

Increased 12-lipoxygenase expression in breast cancer tissues and cells. Regulation by epidermal growth factor. Natarajan R, et al. **J Clin Endocrinol Metab** 1997 Jun; 82(6):1790-8

Aromatase activity and expression in breast cancer and benign breast tissue stromal cells. Santner SJ, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):200-8

Aromatase and 17 beta-hydroxysteroid dehydrogenase type 1 in human breast carcinoma. Sasano H, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4042-6

Signal transduction abnormalities in cancer mitogen-activated protein kinase regulation is altered in breast cancer [editorial; comment] Johnson GL. **J Clin Invest** 1997 Apr 1;99(7):1463-4. Comment on: J Clin Invest 1997 Apr 1;99(7):1478-83.

Hyperexpression of mitogen-activated protein kinase in human breast cancer [see comments] Sivaraman VS, et al. **J Clin Invest** 1997 Apr 1;99(7):1478-83. Comment in: J Clin Invest 1997 Apr 1;99(7):1463-4.

Prognostic importance of thymidylate synthase expression in early breast cancer. Pestalozzi BC, et al. **J Clin Oncol** 1997 May;15(5):1923-31

Cathepsin D detected by automated and quantitative immunohistochemistry in breast carcinomas: correlation with overall and disease free survival. Charpin C, et al. **J Clin Pathol** 1997 Jul;50(7):586-90

17 beta-hydroxysteroid oxidoreductase activity in intact cells significantly differs from classical enzymology analysis. Castagnetta LA, et al. **J Endocrinol** 1996 Sep;150 Suppl:S73-8

Control and expression of oestrone sulphatase activities in human breast cancer. Pasqualini JR, et al. **J Endocrinol** 1996 Sep;150 Suppl:S99-105 (28 ref.)

The complex between urokinase plasminogen activator and its type-1 inhibitor in breast cancer extracts quantitated by ELISA. Pedersen AN, et al. **J Immunol Methods** 1997 Apr 11;203(1):55-65

Effect of nomegestrol acetate on estrone-sulfatase and 17beta-hydroxysteroid dehydrogenase activities in human breast cancer cells. Chetrite G, et al. **J Steroid Biochem Mol Biol** 1996 Aug;58(5-6):525-31

Optimization of a classical aromatase activity assay and application in normal, adenomatous and malignant breast parenchyma. Dikkeschei LD, et al. **J Steroid Biochem Mol Biol** 1996 Nov;59(3-4):305-13

Aromatase activity and CYP19 gene expression in breast cancers. Sourdaine P, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):191-8

Aromatase gene expression and its exon I usage in human breast tumors. Detection of aromatase messenger RNA by reverse transcription-polymerase chain reaction. Zhou C, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):163-71

Tissue transglutaminase expression in human breast cancer. Hettasch JM, et al. **Lab Invest** 1996 Nov;75(5):637-45

A cytochrome P4502E1 genetic polymorphism and tobacco smoking in breast cancer. Shields PG, et al. **Mol Carcinog** 1996 Nov;17(3):144-50

Post-translational cooperativity of ornithine decarboxylase induction by estrogens and peptide growth factors in human breast cancer cells. Huber M, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):211-8

A novel protease homolog differentially expressed in breast and ovarian cancer. Anisowicz A, et al. **Mol Med** 1996 Sep;2(5):624-36

Glutathione and glutathione metabolizing enzymes in tissues and blood of breast cancer patients. Gromadzińska J, et al. **Neoplasma** 1997;44(1):45-51

Leukocyte alkaline phosphatase and serum alkaline

phosphatase in patients with metastatic breast and colon cancer. Walach N, et al. **Neoplasma** 1996;43(5):297–300

Constitutive Raf–1 kinase activity in breast cancer cells induces both estrogen–independent growth and apoptosis. El–Ashry D, et al. **Oncogene** 1997 Jul 24;15(4):423–35

Poly(ADP–ribose) polymerase in human breast cancer: a case–control analysis. Hu JJ, et al. **Pharmacogenetics** 1997 Aug;7(4):309–16

Regulation of glutamine synthetase in human breast carcinoma cells and experimental tumors. Collins CL, et al. **Surgery** 1997 Aug;122(2):451–63; discussion 463–4

[Measurement of aspecific alkaline phosphatase in the intraoperative histological examination of the breast] Vigliani R, et al. **Pathologica** 1997 Feb;89(1):44–53 (Eng. Abstr.) **(Ita)**

[The alteration of PyNPase activity in breast cancers due to preoperative oral administration of 5'–DFUR] Akao S, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):685–90 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Breast cancer in Circumpolar Inuit 1969–1988. Miller AB, et al. **Acta Oncol** 1996;35(5):577–80

Toenail trace element levels and breast cancer: a prospective study. Garland M, et al. **Am J Epidemiol** 1996 Oct 1; 144(7):653–60

Re: "Body size and breast cancer risk among women under age 45 years" [letter; comment] Gerber M.
Am J Epidemiol 1997 Apr 1;145(7):669–70. Comment on: Am J Epidemiol 1996 Apr 1;143(7):698–706.

Variation in female breast cancer risk by occupation. Coogan PF, et al. **Am J Ind Med** 1996 Oct;30(4):430–7

Dietary factors and cancers of breast, endometrium, and ovary: strategies for modifying fat intake in African American women. Hargreaves MK, et al.
Am J Obstet Gynecol 1997 Jun;176(6):S255–64 (134 ref.)

Stage of breast and cervical cancer diagnosis in disadvantaged neighborhoods: a prevention policy perspective. Breen N, et al. **Am J Prev Med** 1996 Sep–Oct; 12(5):319–26

Breast cancer risk in psychiatric patients [letter; comment] Goodwin PJ. **Am J Psychiatry** 1997 Apr;154(4):588; discussion 589–90. Comment on: Am J Psychiatry 1996 Apr;153(4):559–60.

Breast cancer risk in psychiatric patients [letter; comment] Mortensen PB. **Am J Psychiatry** 1997 Apr;154(4):589; discussion 589–90. Comment on: Am J Psychiatry 1996 Apr;153(4):559–60.

Breast cancer risk in psychiatric patients [letter; comment] Torrey EF. **Am J Psychiatry** 1997 Apr;154(4):588–9; discussion 589–90. Comment on: Am J Psychiatry 1996 Apr;153(4):559–60.

Observer variation in AgNOR counts in neoplastic breast lesions. Srivastava A, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):241–4

Implementation of a breast and cervical cancer screening program in a public hospital emergency department. Cancer Control Center of Harlem. Mandelblatt J, et al. **Ann Emerg Med** 1996 Nov;28(5):493–8

Risk factors, lifetime risk, and age at onset of breast cancer. Fraser GE, et al. **Ann Epidemiol** 1997 Aug;7(6):375–82

Risk of breast cancer subsequent to histological or clinical diagnosis of fibroadenoma––retrospective longitudinal study of 3938 cases. Ciatto S, et al. **Ann Oncol** 1997 Mar; 8(3):297–300

Risk of contralateral breast cancer among women with carcinoma in situ of the breast. Habel LA, et al.
Ann Surg 1997 Jan;225(1):69–75

Local recurrence in breast cancer: implications for systemic disease. Curcio LD, et al. **Ann Surg Oncol** 1997 Jan; 4(1):24–7

Body size and risk of pre– and post–menopausal breast cancer in Taiwan. Chie WC, et al. **Anticancer Res** 1996 Sep–Oct; 16(5B):3129–32

Incidence of benign and malignant breast disorders in women taking hormones (contraceptive pill or hormonal replacement therapy). Tzingounis V, et al.
Anticancer Res 1996 Nov–Dec;16(6C):3997–4000

Body mass index and post–menopausal breast cancer: an age–specific analysis. La Vecchia C, et al. **Br J Cancer** 1997;75(3):441–4

Breast cancer risk in mothers of twins. Murphy MF, et al. **Br J Cancer** 1997;75(7):1066–8

A prospective study of endogenous serum hormone concentrations and breast cancer risk in premenopausal women on the island of Guernsey. Thomas HV, et al.
Br J Cancer 1997;75(7):1075–9

Oral contraceptive use at a young age and the risk of breast cancer: an Icelandic, population–based cohort study of the effect of birth year. Tryggvadóttir L, et al.
Br J Cancer 1997;75(1):139–43

Vitamins C and E, retinol, beta–carotene and dietary fibre in relation to breast cancer risk: a prospective cohort study. Verhoeven DT, et al. **Br J Cancer** 1997;75(1):149–55

A case–control study of breast cancer in Taiwan––a low–incidence area. Yang PS, et al. **Br J Cancer** 1997; 75(5):752–6

Association of body mass index, physical activity, and reproductive histories with breast cancer: a case–control study in Gifu, Japan. Hu YH, et al.
Breast Cancer Res Treat 1997 Mar;43(1):65–72

Parity, age at first and last birth, and risk of breast cancer: a population–based study in Sweden. Lambe M, et al.
Breast Cancer Res Treat 1996;38(3):305–11

Feasibility of obtaining breast epithelial cells from healthy women for studies of cellular proliferation. Miller NA, et al. **Breast Cancer Res Treat** 1997 May;43(3):201–9

Risk factors for breast cancer: a case–control study of screen–detected breast cancer in Miyagi Prefecture, Japan. Minami Y, et al. **Breast Cancer Res Treat** 1997 Jul; 44(3):225–33

Trends in the incidence rate and risk factors for breast cancer in Japan. Nagata C, et al. **Breast Cancer Res Treat** 1997 May;44(1):75–82

Prognostic significance of etiological risk factors in early breast cancer. Schouten LJ, et al.
Breast Cancer Res Treat 1997 May;43(3):217–23

Breast cancer in African American women: epidemiology and tumor biology. Trock BJ. **Breast Cancer Res Treat** 1996;40(1):11–24 (78 ref.)

Breast cancer risk is positively associated with height. Wang DY, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):123–8

Incidence trends of female breast cancer in Saskatchewan, 1932–1990. Wang PP, et al. **Breast Cancer Res Treat** 1996; 37(3):197–207

New Ontario familial breast cancer registry to facilitate genetic and epidemiologic studies. Andrulis IL, et al.
Can Fam Physician 1997 May;43:949–50

Relation between clinical and mammographic diagnosis of breast problems and the cancer/biopsy rate. Sterns EE. **Can J Surg** 1996 Apr;39(2):128–32

Association of Stein–Leventhal syndrome with the incidence of postmenopausal breast carcinoma in a large prospective study of women in Iowa. Anderson KE, et al. **Cancer** 1997 Feb 1;79(3):494–9

A comparison of breast, colorectal, lung, and prostate cancers reported to the National Cancer Data Base and the Surveillance, Epidemiology, and End Results Program. Mettlin CJ, et al. **Cancer** 1997 May 15;79(10):2052–61

The National Cancer Data Base report on breast carcinoma characteristics and outcome in relation to age. Winchester DP, et al. **Cancer** 1996 Oct 15;78(8):1838–43

Further evidence of a dual effect of a completed pregnancy on breast cancer risk [letter; comment] Albrektsen G, et al. **Cancer Causes Control** 1996 Jul;7(4):487–8. Comment on: Cancer Causes Control 1995 Jul;6(4):283–91.

Leisure–time physical activity in relation to breast cancer among young women (Washington, United States). Chen CL, et al. **Cancer Causes Control** 1997 Jan;8(1):77–84

A prospective study of oral contraceptive use and risk of breast cancer (Nurses' Health Study, United States). Hankinson SE, et al. **Cancer Causes Control** 1997 Jan; 8(1):65–72

Non–dietary factors as risk factors for breast cancer, and as effect modifiers of the association of fat intake and risk of breast cancer. Hunter DJ, et al.
Cancer Causes Control 1997 Jan;8(1):49–56

Nutrition and breast cancer. Hunter DJ, et al.
Cancer Causes Control 1996 Jan;7(1):56–68 (123 ref.)

Maternal risk of breast cancer following multiple births: a nationwide study in Sweden [published erratum appears in Cancer Causes Control 1997 Mar;8(2):260] Lambe M, et al. **Cancer Causes Control** 1996 Sep;7(5):533–8

Recent oral contraceptive use and risk of breast cancer (United States) [see comments] Newcomb PA, et al.
Cancer Causes Control 1996 Sep;7(5):525–32. Comment in: Cancer Causes Control 1996 Sep;7(5):495–6.

Progestogen–only oral contraceptives and risk of breast cancer in New Zealand [see comments] Skegg DC, et al.
Cancer Causes Control 1996 Sep;7(5):513–9. Comment in: Cancer Causes Control 1996 Sep;7(5):495–6.

Lifestyle changes during adolescence and risk of breast cancer: an ecologic study of the effect of World War II in Norway. Tretli S, et al. **Cancer Causes Control** 1996 Sep; 7(5):507–12

Height, weight weight change, and postmenopausal breast cancer risk: The Netherlands Cohort Study. van den Brandt PA, et al. **Cancer Causes Control** 1997 Jan;8(1):39–47

The risk of breast cancer following spontaneous or induced abortion [published erratum appears in Cancer Causes Control 1997 Mar;8(2):260] Wingo PA, et al.
Cancer Causes Control 1997 Jan;8(1):93–108 (96 ref.)

The association of ethnicity and the incidence of mammary carcinoma in situ in women: 11,436 cases from the California Cancer Registry. Saltzstein SL.
Cancer Detect Prev 1997;21(4):361–9

Cigarette smoking and breast cancer. Baron JA, et al.
Cancer Epidemiol Biomarkers Prev 1996 May;5(5):399–403

Physical activity and breast cancer risk. D'Avanzo B, et al.
Cancer Epidemiol Biomarkers Prev 1996 Mar;5(3):155–60

Meat intake, heterocyclic amines, and risk of breast cancer: a case–control study in Uruguay. De Stefani E, et al.
Cancer Epidemiol Biomarkers Prev 1997 Aug;6(8):573–81

Relationship of serum dehydroepiandrosterone (DHEA), DHEA sulfate, and 5–androstene–3 beta, 17 beta–diol to risk of breast cancer in postmenopausal women. Dorgan JF, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar; 6(3):177–81

Glutathione S–transferase class mu deletion polymorphism and breast cancer: results from prevalent versus incident cases. Kelsey KT, et al.
Cancer Epidemiol Biomarkers Prev 1997 Jul;6(7):511–5

Risk factors for in situ breast cancer. Longnecker MP, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):961–5

Risk of breast cancer associated with atypical hyperplasia of lobular and ductal types. Marshall LM, et al.
Cancer Epidemiol Biomarkers Prev 1997 May;6(5):297–301

Mammography screening and the increase in breast cancer incidence in Hawaii. Maskarinec G, et al.
Cancer Epidemiol Biomarkers Prev 1997 Mar;6(3):201–8

Parental age in relation to risk of breast cancer. Newcomb PA, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar; 6(3):151–4

Mammography diffusion and trends in late–stage breast cancer: evaluating outcomes in a population. Taplin SH, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug; 6(8):625–31

Olive oil, monounsaturated fatty acids and cancer. Gerber M. **Cancer Lett** 1997 Mar 19;114(1–2):91–2 (10 ref.)

Diet and breast cancer risk in a cohort of Finnish women. Järvinen R, et al. **Cancer Lett** 1997 Mar 19;114(1–2):251–3

Breast cancer epidemiology in Czech Republic. Celko AM. **Cent Eur J Public Health** 1996 May;4(2):106–9

Double reporting of screening mammograms [letter; comment] Matson M, et al. **Clin Radiol** 1997 Jul;52(7):567 . Comment on: Clin Radiol 1997 Jun;52(6):466–8.

Breast cancer and pesticides in Hawaii: the need for further study. Allen RH, et al. **Environ Health Perspect** 1997 Apr; 105 Suppl 3:679–83

Occupational exposure to 60–hertz magnetic fields and risk of breast cancer in women [see comments] Coogan PF, et al. **Epidemiology** 1996 Sep;7(5):459–64. Comment in: Epidemiology 1996 Sep;7(5):457–8.

Estimating the risk of breast cancer in relation to the interval since last term pregnancy [see comments] Cummings P, et al. **Epidemiology** 1997 Sep;8(5):488–94 (18 ref.). Comment in: Epidemiology 1997 Sep;8(5):471–3.

Macronutrients, energy intake, and breast cancer risk: implications from different models. Decarli A, et al.
Epidemiology 1997 Jul;8(4):425–8

Residential exposure to 60–Hertz magnetic fields and adult cancers in Taiwan. Li CY, et al. **Epidemiology** 1997 Jan; 8(1):25–30

Occurrence of breast cancer in relation to recreational exercise in women age 50–64 years. McTiernan A, et al.
Epidemiology 1996 Nov;7(6):598–604

Indices of exposure to fetal and sperm antigens in relation to the occurrence of breast cancer. Rossing MA, et al.
Epidemiology 1996 May;7(3):309–11

Age at and time since: modeling temporal aspects of exposure [editorial; comment] Thompson WD. **Epidemiology** 1997 Sep;8(5):471–3 (11 ref.). Comment on: Epidemiology 1997 Sep;8(5):488–94.

Prenatal and perinatal risk factors for breast cancer in young women. Weiss HA, et al. **Epidemiology** 1997 Mar;8(2):181–7

Differences between spontaneous and induced abortions as risk factors for breast cancer. Zhang J. **Epidemiology** 1996 May;7(3):316–8

Trends of in situ carcinoma of the breast in Vaud, Switzerland. Levi F, et al. **Eur J Cancer** 1997 May; 33(6):903–6

Molecular epidemiology of lung and breast cancer. Ambrosone CB, et al. **Eur J Cancer Prev** 1996 Oct; 5(5):391–2 (6 ref.)

Cigarette smoking and the risk of breast cancer. Braga C, et al. **Eur J Cancer Prev** 1996 Jun;5(3):159–64

Age at first full–term pregnancy, lactation and parity and risk of breast cancer: a case–control study in Spain. Ramon JM, et al. **Eur J Epidemiol** 1996 Oct;12(5):449–53

Breast cancer and in vitro fertilization. About 32 cases. Jourdain O, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Jul;67(1):47–52

Evaluation of potential sources of bias in a genetic epidemiologic study of breast cancer. Seybolt LM, et al.
Genet Epidemiol 1997;14(1):85–95

Risk for breast and colorectal cancers subsequent to cancer of the endometrium in a population–based case series. Re A, et al. **Gynecol Oncol** 1997 Aug;66(2):255–7

Trends in breast cancer incidence and mortality. Gaudette LA, et al. **Health Rep** 1996 Autumn;8(2):29–37(Eng); 31–40(Fre) **(Eng, Fre)**

Extratumoral breast tissue in breast cancer patients: a multinational study of variations with age and country of residence in low– and high–risk countries. WHO Collaborative Study of Neoplasia and Steroid Contraceptives. Aaman TB, et al. **Int J Cancer** 1997 May 2;71(3):333–9

Breast cancer risk associated with gynecologic surgery and indications for such surgery. Schairer C, et al.
Int J Cancer 1997 Jan 17;70(2):150–4

The association between lactation and breast cancer in an international case–control study: a re–analysis by menopausal status. Stuver SO, et al. **Int J Cancer** 1997 Apr 10;71(2):166–9

Attributable risks for breast cancer in Italy: education, family history and reproductive and hormonal factors. Tavani A, et al. **Int J Cancer** 1997 Jan 17;70(2):159–63

Risk of endometrial and breast cancer in patients with diabetes mellitus. Weiderpass E, et al. **Int J Cancer** 1997 May 2;71(3):360–3

Sojourn time, sensitivity and positive predictive value of mammography screening for breast cancer in women aged 40–49. Duffy SW, et al. **Int J Epidemiol** 1996 Dec; 25(6):1139–45

The incidence of breast cancer following mantle field radiation therapy as a function of dose and technique.

Tinger A, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):865–70

Fat, caloric intake, and obesity: lifestyle risk factors for breast cancer. Greenwald P, et al. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S24–30 (76 ref.)

Modifying effect of reproductive risk factors on the age at onset of breast cancer for German BRCA1 mutation carriers. Chang-Claude J, et al. **J Cancer Res Clin Oncol** 1997;123(5):272–9

Comorbidity measurement in elderly female breast cancer patients with administrative and medical records data. Newschaffer CJ, et al. **J Clin Epidemiol** 1997 Jun; 50(6):725–33

Annual hazard rates of recurrence for breast cancer after primary therapy. Saphner T, et al. **J Clin Oncol** 1996 Oct; 14(10):2738–46

Family history evaluation in epidemiologic studies; an evaluation of bias in the conventional methods and a proposal of a new one. Nakamura Y, et al. **J Epidemiol** 1997 Mar;7(1):21–5

Patient, physician and presentational influences on clinical decision making for breast cancer: results from a factorial experiment. McKinlay JB, et al. **J Eval Clin Pract** 1997 Feb;3(1):23–57

The effect of an educational intervention on the perceived risk of breast cancer. Alexander NE, et al. **J Gen Intern Med** 1996 Feb;11(2):92–7

Noncutaneous malignant tumors in the PUVA follow-up study: 1975–1996. Stern RS, et al. **J Invest Dermatol** 1997 Jun;108(6):897–900

Menstrual and reproductive factors related to the risk of breast cancer in Korea. Ovarian hormone effect on breast cancer. Suh JS, et al. **J Korean Med Sci** 1996 Dec; 11(6):501–8

Breast cancer in the inner city: intensive efforts may be succeeding. Hill GJ, et al. **J Med** 1996;27(3–4):135–51

Increased incidence of cancer in first degree relatives of women with double primary carcinomas of the breast and colon. Foulkes WD, et al. **J Med Genet** 1996 Jul;33(7):534–9

Monitoring the performance of breast screening programmes: allowing for geographical variation in breast cancer incidence. Blanks RG, et al. **J Med Screen** 1996;3(2):82–4

Recent trends in U.S. breast cancer incidence, survival, and mortality rates [see comments] Chu KC, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1571–9. Comment in: J Natl Cancer Inst 1996 Dec 18;88(24):1791–3.

Second cancers after adjuvant tamoxifen therapy for breast cancer [letter; comment] Cook LS, et al. **J Natl Cancer Inst** 1997 May 7;89(9):657–9. Comment on: J Natl Cancer Inst 1996 Jun 19;88(12):832–4.

Researchers expand genetic epidemiology of BRCA genes [news] Kuska B. **J Natl Cancer Inst** 1997 Jun 18; 89(12):844–5

Geographic variation in breast cancer incidence rates in a cohort of U.S. women. Laden F, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1373–8

Regional differences in known risk factors and the higher incidence of breast cancer in San Francisco. Robbins AS, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):960–5

Breast cancer: weighing the evidence for a promoting role of dietary fat. Wynder EL, et al. **J Natl Cancer Inst** 1997 Jun 4;89(11):766–75 (177 ref.)

Perspectives on integrating experimental and epidemiologic research on diet, anthropometry and breast cancer. Ballard-Barbash R, et al. **J Nutr** 1997 May;127(5 Suppl):936S–939S (22 ref.)

A comparison of food habit and food frequency data as predictors of breast cancer in the NHANES I/NHEFS cohort. Byrne C, et al. **J Nutr** 1996 Nov;126(11):2757–64

Anthropometry and breast cancer. Ziegler RG. **J Nutr** 1997 May;127(5 Suppl):924S–928S (26 ref.)

Hormone replacement therapy and the risk of reproductive cancers. Swan SH. **J Psychosom Obstet Gynaecol** 1997 Jun; 18(2):165–74 (47 ref.)

From the Centers for Disease Control and Prevention. Breast cancer incidence and mortality—United States, 1992. **JAMA** 1996 Oct 23–30;276(16):1293–4

Cigarette smoking, N-acetyltransferase 2 genetic polymorphisms, and breast cancer risk [see comments] Ambrosone CB, et al. **JAMA** 1996 Nov 13; 276(18):1494–501. Comment in: JAMA 1996 Nov 13;276(18):1511–2. Comment in: JAMA 1997 Feb 19;277(7):533; discussion 534. Comment in: JAMA 1997 Feb 19;277(7):533–4; discussion 534.

Bone mineral density and risk of breast cancer in older women: the study of osteoporotic fractures. Study of Osteoporotic Fractures Research Group [see comments] Cauley JA, et al. **JAMA** 1996 Nov 6;276(17):1404–8. Comment in: JAMA 1996 Nov 6;276(17):1430–2. Comment in: JAMA 1997 May 21;277(19):1515; discussion 1516–7.

Smokers and breast cancer. 'Chemical individuality' and cancer predisposition [editorial; comment] Lin HJ. **JAMA** 1996 Nov 13;276(18):1511–2. Comment on: JAMA 1996 Nov 13;276(18):1494–501.

Changes in breast cancer incidence among Norwegian women under 50 [letter] Matheson I, et al. **Lancet** 1996 Sep 28;348(9031):900–1

Does physical activity reduce risk of estrogen-dependent cancer in women? Kramer MM, et al. **Med Sci Sports Exerc** 1996 Mar;28(3):322–34 (117 ref.)

Breast cancer incidence and mortality—United States, 1992. **MMWR Morb Mortal Wkly Rep** 1996 Oct 4;45(39):833–7

Bone mass and the risk of breast cancer [letter; comment] Atkins CD. **N Engl J Med** 1997 Jul 17;337(3):199; discussion 200. Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.

Bone mass and the risk of breast cancer [letter; comment] Ballesteros M, et al. **N Engl J Med** 1997 Jul 17;337(3):200 . Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.

Exercise and breast cancer [letter; comment] Jackson JA. **N Engl J Med** 1997 Sep 4;337(10):708; discussion 709. Comment on: N Engl J Med 1997 May 1;336(18):1269–75.

Bone mass and the risk of breast cancer [letter; comment] Shealy CN. **N Engl J Med** 1997 Jul 17;337(3):200. Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.

Physical activity and the risk of breast cancer [see comments] Thune I, et al. **N Engl J Med** 1997 May 1;336(18):1269–75 . Comment in: N Engl J Med 1997 May 1;336(18):1311–2. Comment in: N Engl J Med 1997 Sep 4;337(10):708; discussion 709. Comment in: N Engl J Med 1997 Sep 4;337(10):708–9; discussion 709. Comment in: N Engl J Med 1997 Sep 4;337(10):709.

Exercise and breast cancer [letter; comment] Woloshin S, et al. **N Engl J Med** 1997 Sep 4;337(10):708–9; discussion 709. Comment on: N Engl J Med 1997 May 1;336(18):1269–75.

Bone mass and the risk of breast cancer among postmenopausal women [see comments] Zhang Y, et al. **N Engl J Med** 1997 Feb 27;336(9):611–7. Comment in: N Engl J Med 1997 Jul 17;337(3):199; discussion 200. Comment in: N Engl J Med 1997 Jul 17;337(3):200.

AT-tributable risks? [news; comment] Bishop DT, et al. **Nat Genet** 1997 Mar;15(3):226. Comment on: Nat Genet 1997 Mar;15(3):307–10.

Breast cancer in Nebraska: recent trends in incidence, mortality, and screening. Rettig B, et al. **Nebr Med J** 1996 Mar;81(3):63–9

Incidence and kinetics of distant metastases in patients with operable breast cancer. Kryj M, et al. **Neoplasma** 1997; 44(1):3–11

Hysterectomy, oophorectomy in premenopause, and risk of breast cancer. Parazzini F, et al. **Obstet Gynecol** 1997 Sep; 90(3):453–6

Prevalence and correlates of breast and cervical cancer screening among older women. Ruchlin HS. **Obstet Gynecol** 1997 Jul;90(1):16–21

Epidemiological appraisal of studies of residential exposure to power frequency magnetic fields and adult cancers. Li CY, et al. **Occup Environ Med** 1996 Aug;53(8):505–10 (28 ref.)

Humbug breast cancer follies: odds ratios for the relative risk of truth: unsolicited reportage from a board certified non-epidemiologist. Landau WM. **Perspect Biol Med** 1997 Summer;40(4):536–42

Risk factors for primary breast cancer in Japan: 8-year follow-up of atomic bomb survivors. Goodman MT, et al. **Prev Med** 1997 Jan-Feb;26(1):144–53

A case-control study of parity, age at first full-term pregnancy, breast feeding and breast cancer in Taiwanese women. Lai FM, et al. **Proc Natl Sci Counc Repub China B** 1996 Jul;20(3):71–7

Molecular epidemiology of breast cancer. Ambrosone CB, et al. **Prog Clin Biol Res** 1997;396:83–99 (100 ref.)

Epidemiologic analysis of breast and gynecologic cancers. Hulka BS. **Prog Clin Biol Res** 1997;396:17–29 (41 ref.)

Epidemiology of susceptibility to breast cancer. Hulka BS. **Prog Clin Biol Res** 1996;395:159–74 (52 ref.)

Mapping out a search for environmental causes of breast cancer. Brody JG, et al. **Public Health Rep** 1996 Nov-Dec; 111(6):494–507 (44 ref.)

Breast cancer epidemiology and risk factors. Broeders MJ, et al. **Q J Nucl Med** 1997 Sep;41(3):179–88 (54 ref.)

Comparison of the relative incidence of impalpable invasive breast carcinoma and ductal carcinoma in situ in cancers detected in patients older and younger than 50 years of age. Evans WP 3rd, et al. **Radiology** 1997 Aug; 204(2):489–91

Compliance with recommended follow-up after fine-needle aspiration biopsy of nonpalpable breast lesions: a retrospective study. Pal S, et al. **Radiology** 1996 Oct; 201(1):71–4

Radon and breast cancer [letter; comment] Neuberger JS, et al. **Risk Anal** 1996 Dec;16(6):729–30. Comment on: Risk Anal 1996 Feb;16(1):1–2.

The incidence of breast cancer: the global burden, public health considerations. Forbes JF. **Semin Oncol** 1997 Feb; 24(1 Suppl 1):S1-20–S1-35 (15 ref.)

An approach to estimating exposure-specific rates of breast cancer from a two-stage case-control study within a cohort. Benichou J, et al. **Stat Med** 1997 Jan 15-Feb 15; 16(1-3):133–51

The molecular epidemiology of p53 gene mutations in human breast cancer. Hartmann A, et al. **Trends Genet** 1997 Jan; 13(1):27–33 (79 ref.)

Hereditary breast cancer in Northern Ireland. McKinley AG, et al. **Ulster Med J** 1996 Nov;65(2):113–7

Breast cancer incidence and mortality in Milwaukee's North Shore communities [see comments] Remington PL, et al. **Wis Med J** 1997 Mar;96(3):46–7. Comment in: Wis Med J 1997 Mar;96(3):12.

Comments on the North Shore Breast Cancer Study [editorial; comment] Wasserman S. **Wis Med J** 1997 Mar; 96(3):12. Comment on: Wis Med J 1997 Mar;96(3):46–7.

[Prevalence assessment of colorectal and breast cancers in the Rhône-Alpes area] Colonna M, et al. **Bull Cancer** 1997 Feb;84(2):162–8 (Eng. Abstr.) **(Fre)**

[Simultaneous screening of cancers of the breast, cervix, colon and rectum. The Isère experience] Exbrayat C, et al. **Bull Cancer** 1996 Aug;83(8):641–8 (Eng. Abstr.) **(Fre)**

[Evaluation of individual breast cancer screening in the Alpes-Maritimes] Fontas P, et al. **J Radiol** 1996 Sep; 77(9):657–62 (Eng. Abstr.) **(Fre)**

[Increasing incidence and declining mortality in breast carcinoma] Sack H. **Strahlenther Onkol** 1997 Jul; 173(7):388–9 **(Ger)**

[The role of the obstetrician-gynecologist in the prevention of alcohol-related problems] Weiss S. **Harefuah** 1996 May 15;130(10):714–8 **(Heb)**

[Incidence of synchronous or metachronous multiple primary cancers and aggregation of cancers in families of patients with endometrial cancer] Ichikawa Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Sep;48(9):835–40 (Eng. Abstr.) **(Jpn)**

[Familial cancer of the breast] Bento MJ, et al. **Acta Med Port** 1996 Apr-Jun;9(4–6):129–33 (Eng. Abstr.) **(Por)**

[Relationship between breast cancer, breast sensitivity, breast feeding and brain laterality] Vieira MI, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 May-Jun; 51(3):85–9 (Eng. Abstr.) **(Por)**

[Fat intake and breast cancer: a controversial association. European Prospective Investigation on Cancer group in Spain] **Med Clin (Barc)** 1997 Jan 18;108(2):68–74 (64 ref.) **(Spa)**

[The risk of breast cancer in Catalonia] Izquierdo A, et al. **Med Clin (Barc)** 1996 Oct 5;107(11):410–3 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Severe obesity as an explanatory factor for the black/white difference in stage at diagnosis of breast cancer. Jones BA, et al. **Am J Epidemiol** 1997 Sep 1;146(5):394–404

Barriers to breast and cervical cancer screening among Vietnamese-American women. McPhee SJ, et al. **Am J Prev Med** 1997 May-Jun;13(3):205–13

Breast cancer screening practices among black, Hispanic, and white women: reassessing differences. Pearlman DN, et al. **Am J Prev Med** 1996 Sep-Oct;12(5):327–37

Recent trends in breast cancer mortality among white and black US women. Chevarley F, et al. **Am J Public Health** 1997 May;87(5):775–81

Race and mammography use in two North Carolina counties. O'Malley MS, et al. **Am J Public Health** 1997 May; 87(5):782–6

Questionable data and preconceptions: reconsidering the value of mammography for American Indian Women. Partin MR, et al. **Am J Public Health** 1997 Jul;87(7):1100–2

Importance of race on breast cancer survival. Lyman GH, et al. **Ann Surg Oncol** 1997 Jan;4(1):80–7

Continuity of care and the use of breast and cervical cancer screening services in a multiethnic community. O'Malley AS, et al. **Arch Intern Med** 1997 Jul 14;157(13):1462–70

Ethnic differences in risk perception among women at increased risk for breast cancer. Hughes C, et al. **Breast Cancer Res Treat** 1996;40(1):25–35

Racial differences in timeliness of follow-up after abnormal screening mammography. Chang SW, et al. **Cancer** 1996 Oct 1;78(7):1395–402

Prognosis among African-American women and white women with lymph node negative breast carcinoma: findings from two randomized clinical trials of the National Surgical Adjuvant Breast and Bowel Project (NSABP). Dignam JJ, et al. **Cancer** 1997 Jul 1;80(1):80–90

Influence of BRCA1 mutations on nuclear grade and estrogen receptor status of breast carcinoma in Ashkenazi Jewish women. Karp SE, et al. **Cancer** 1997 Aug 1;80(3):435–41

Participatory research in a Native Hawaiian community. The Wai'anae Cancer Research Project. Matsunaga DS, et al. **Cancer** 1996 Oct 1;78(7 Suppl):1582–6

The influence of black race and socioeconomic status on the use of breast-conserving surgery for Medicare beneficiaries. Michalski TA, et al. **Cancer** 1997 Jan 15; 79(2):314–9

Breast cancer. Is ethnicity an independent prognostic factor for survival? Perkins P, et al. **Cancer** 1996 Sep 15; 78(6):1241–7 (19 ref.)

Breast cancer survival among New Mexico Hispanic, American Indian, and non-Hispanic white women (1973–1992). Frost F, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):861–6

p53 haplotype determination in breast cancer. Weston A, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):105–12

Tofu and risk of breast cancer in Asian-Americans. Wu AH, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov; 5(11):901–6

The meaning of race in cancer of the breast [comment] Freeman HP. **Cancer J Sci Am** 1997 Mar-Apr;3(2):76–7. Comment on: Cancer J Sci Am 1997 Mar-Apr;3(2):107–12.

Race and survival from breast cancer: based on Cancer and Leukemia Group B trial 8541 [see comments] Roach M 3rd, et al. **Cancer J Sci Am** 1997 Mar-Apr;3(2):107–12. Comment in: Cancer J Sci Am 1997 Mar-Apr;3(2):76–7.

Time trend of female breast carcinoma in situ by race and histology in Connecticut, USA. Zheng T, et al.

Eur J Cancer 1997 Jan;33(1):96–100
Racial comparison of p53 alterations in breast cancer: difference in prognostic value. Shiao YH, et al. **In Vivo** 1996 Mar–Apr;10(2):169–73
Comparison of breast screening outcomes from a cancer control intervention for African–American and white women in western New York. Roberson NL.
J Assoc Acad Minor Phys 1997;8(2):29–33
Race and clinical outcome in breast cancer in a series with long–term follow–up evaluation. Heimann R, et al.
J Clin Oncol 1997 Jun;15(6):2329–37
Re: Ethnic differences in estrogen metabolism in healthy women [letter; comment] Coker AL, et al.
J Natl Cancer Inst 1997 Jan 1;89(1):89–90. Comment on: J Natl Cancer Inst 1996 May 1;88(9):617.
Racial/ethnic differences in breast cancer survival among San Francisco Bay Area women. Hsu JL, et al.
J Natl Cancer Inst 1997 Sep 3;89(17):1311–2
Birth cohort and calendar period trends in breast cancer mortality in the United States and Canada. Tarone RE, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):251–6
Bone mass and the risk of breast cancer [letter; comment] Walker AR, et al. **N Engl J Med** 1997 Jul 17;337(3):199; discussion 200. Comment on: N Engl J Med 1997 Feb 27;336(9):611–7.
Reasons for delay in breast cancer diagnosis. Caplan LS, et al. **Prev Med** 1996 Mar–Apr;25(2):218–24
Breast cancer––a comparative study between Malaysian and Singaporean women. Yip CH, et al. **Singapore Med J** 1996 Jun;37(3):264–7
Women's attitudes toward breast cancer screening procedures: differences by ethnicity. Dibble SL, et al.
Womens Health Issues 1997 Jan–Feb;7(1):47–54

ETIOLOGY

Malignant tumors of the ovary or the breast in association with infertility: a report of thirteen cases. Unkila–Kallio L, et al. **Acta Obstet Gynecol Scand** 1997 Feb;76(2):177–81
Alcohol and breast cancer: interactions between alcohol and other risk factors. Singletary KW.
Alcohol Clin Exp Res 1996 Nov;20(8 Suppl):57A–61A
Diet and the prevention and treatment of breast cancer [see comments] Nicholson A. **Altern Ther Health Med** 1996 Nov;2(6):32–8 (80 ref.). Comment in: Altern Ther Health Med 1997 Mar;3(2):16, 18.
Explaining the relation between education and postmenopausal breast cancer. Heck KE, et al.
Am J Epidemiol 1997 Feb 15;145(4):366–72
Body size and risk of breast cancer. Trentham–Dietz A, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1011–9
Breast cancer risk factors according to combined estrogen and progesterone receptor status: a case–control analysis. Yoo KY, et al. **Am J Epidemiol** 1997 Aug 15;146(4):307–14
Relation of serum levels of testosterone and dehydroepiandrosterone sulfate to risk of breast cancer in postmenopausal women. Zeleniuch–Jacquotte A, et al.
Am J Epidemiol 1997 Jun 1;145(11):1030–8
Interactions between genetic and reproductive factors in breast cancer risk in a French family sample. Andrieu N, et al. **Am J Hum Genet** 1997 Sep;61(3):678–90
Exposure to organic solvents and breast cancer in women: a hypothesis. Labrèche FP, et al. **Am J Ind Med** 1997 Jul; 32(1):1–14 (125 ref.)
Fatty acid composition and CD36 expression in breast adipose tissue of premenopausal and postmenopausal women. Abbadia Z, et al. **Anticancer Res** 1997 Mar–Apr; 17(2A):1217–21
Breast cancer induction due to mammographic screening in hereditarily affected women. Den Otter W, et al.
Anticancer Res 1996 Sep–Oct;16(5B):3173–5
Pathogenesis of breast carcinoma. Immunohistochemical study. Zółtowska A. **Arch Immunol Ther Exp (Warsz)** 1997; 45(1):101–8
Thoughts around the ridges. Colquhoun JP.
Aust Fam Physician 1996 Oct;25(10):1643–4
3,4,3',4'–tetrachlorobiphenyl acts as an oestrogen and can promote breast tumour growth. Nesaretnam K, et al.
Biochem Soc Trans 1996 Aug;24(3):361S
Possibilities of a viral etiology for human breast cancer. A review. Pogo BG, et al. **Biol Trace Elem Res** 1997 Jan; 56(1):131–42 (83 ref.)
Cohort study of association of risk of breast cancer with cyst type in women with gross cystic disease of the breast. Bruzzi P, et al. **BMJ** 1997 Mar 29;314(7085):925–8
Breast cancer risk with cyst type in cystic disease of the breast. Larger study found no association between cyst type and breast cancer [letter] Dixon JM, et al. **BMJ** 1997 Aug 30;315(7107):545–6
Breast cancer risk with cyst type in cystic disease of the breast. Consistency of cyst type needs to be known [letter] Ebbs S, et al. **BMJ** 1997 Aug 30;315(7107):545
Breastfeeding history, pregnancy experience and risk of breast cancer. Enger SM, et al. **Br J Cancer** 1997; 76(1):118–23
Selected medical conditions and risk of breast cancer. Talamini R, et al. **Br J Cancer** 1997;75(11):1699–703
Cancers detected and induced in mammographic screening: new screening schedules and younger women with family history. Law J. **Br J Radiol** 1997 Jan;70:62–9
Endocrine and paracrine hormones in the promotion, progression and recurrence of breast cancer. Reid SE, et al. **Br J Surg** 1996 Aug;83(8):1037–46 (126 ref.)
The multifunctional role of transforming growth factor (TGF)–beta s on mammary epithelial cell biology. Arteaga CL, et al. **Breast Cancer Res Treat** 1996;38(1):49–56 (51 ref.)
Regularity and length of menstrual cycles in women aged 41–46 in relation to breast cancer risk: results from the DOM–project. den Tonkelaar I, et al.
Breast Cancer Res Treat 1996;38(3):253–8
Birth season and breast cancer risk in Japan. Hu YH, et al.
Breast Cancer Res Treat 1996;39(3):315–9
Nutrition and breast cancer risk: can an effect via insulin resistance be demonstrated? Stoll BA.
Breast Cancer Res Treat 1996;38(3):239–46 (58 ref.)
Diet and premenopausal bilateral breast cancer: a case–control study. Witte JS, et al.
Breast Cancer Res Treat 1997 Feb;42(3):243–51
Breast cancer in previously burned skin: a postburn skin adnexal malignancy? Vögelin E, et al. **Burns** 1997 Jun; 23(4):366–8
Researchers hope to determine if link exists between high–fat diet, breast cancer. Lechky O. **Can Med Assoc J** 1997 Mar 1;156(5):693–4
High risk of breast carcinoma after irradiation of young women with Hodgkin's disease. Aisenberg AC, et al.
Cancer 1997 Mar 15;79(6):1203–10
Stress and the development of breast cancer: a persistent and popular link despite contrary evidence [letter; comment] Burke MA, et al. **Cancer** 1997 Mar 1;79(5):1055–9. Comment on: Cancer 1996 Mar 15;77(6):1015–6. Comment on: Cancer 1996 Mar 15;77(6):1089–93.
Risk factors for breast carcinoma in Singaporean Chinese women: the role of central obesity. Ng EH, et al.
Cancer 1997 Aug 15;80(4):725–31
Radiation–associated angiosarcoma: diagnostic and therapeutic implications––two case reports and a review of the literature [letter; comment] Perin T, et al.
Cancer 1997 Aug 1;80(3):519–21. Comment on: Cancer 1996 Jun 15;77(12):2496–502.
Hormones and risk of cancers of the breast and ovary [editorial; comment] Brinton LA. **Cancer Causes Control** 1996 Nov;7(6):569–71. Comment on: Cancer Causes Control 1996 Nov;7(6):605–25.
Physical activity in usual occupation and risk of breast cancer (United States). Coogan PF, et al.
Cancer Causes Control 1997 Jul;8(4):626–31
Breast size, breast reduction, and cancer risk [editorial; comment] Franceschi S. **Cancer Causes Control** 1997 Mar; 8(2):125–6 (18 ref.). Comment on: Cancer Causes Control 1997 Mar;8(2):253–8.
Nutrition, hormones, and breast cancer: is insulin the missing link? [see comments] Kaaks R. **Cancer Causes Control** 1996 Nov;7(6):605–25 (355 ref.). Comment in: Cancer Causes Control 1996 Nov;7(6):569–71.
Breast cancer and oral contraceptives––the evidence so far [editorial; comment] Reeves G. **Cancer Causes Control** 1996 Sep;7(5):495–6. Comment on: Cancer Causes Control 1996 Sep;7(5):513–9. Comment on: Cancer Causes Control 1996 Sep;7(5):525–32.
Alcohol, cigarette smoking, and the risk of breast cancer. Ranstam J, et al. **Cancer Detect Prev** 1995;19(6):487–93
Relationships among objective and subjective risk for breast cancer and mammography stages of change. Lipkus IM, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec; 5(12):1005–11
Tissue antioxidants and postmenopausal breast cancer: the European Community Multicentre Study on Antioxidants, Myocardial Infarction, and Cancer of the Breast (EURAMIC). van 't Veer P, et al.
Cancer Epidemiol Biomarkers Prev 1996 Jun;5(6):441–7
Causal attributions, coping strategies, and adjustment to breast cancer. Lavery JF, et al. **Cancer Nurs** 1996 Feb; 19(1):20–8
Genotoxicity of human mammary lipid. Martin FL, et al.
Cancer Res 1996 Dec 1;56(23):5342–6
Does oral contraceptive use increase the risk of breast cancer in women with BRCA1/BRCA2 mutations more than in other women? Ursin G, et al. **Cancer Res** 1997 Sep 1; 57(17):3678–81
Nuclear oncogenes in breast cancer. Dubik D, et al.
Cancer Treat Res 1996;83:171–89 (123 ref.)
Endothelins in breast cancer. Patel KV, et al.
Cancer Treat Res 1996;83:369–94 (140 ref.)
Role of the nuclear matrix in breast cancer. Replogle TS, et al. **Cancer Treat Res** 1996;83:127–40 (53 ref.)
Cyclins and breast cancer. Sweeney KJ, et al.
Cancer Treat Res 1996;83:141–70 (154 ref.)
Estrogens and breast cancer. Feigelson HS, et al.
Carcinogenesis 1996 Nov;17(11):2279–84 (37 ref.)
Cutaneous Rosai–Dorfman disease manifestating as recurrent breast tumor: a case report. Wang JS, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1997 Apr; 59(4):269–73
Oral contraceptives and breast cancer––resolution emerges [editorial] Westhoff CL. **Contraception** 1996 Sep;54(3 Suppl):i–ii
Breast cancer and pesticides in Hawaii: the need for further study. Allen RH, et al. **Environ Health Perspect** 1997 Apr; 105 Suppl 3:679–83
Medical hypothesis: bifunctional genetic–hormonal pathways to breast cancer. Davis DL, et al.
Environ Health Perspect 1997 Apr;105 Suppl 3:571–6 (45 ref.)
Hormones, hormone metabolism, environment, and breast cancer: a workshop of the National Action Plan on Breast Cancer's Etiology Working Group. Davis DL, et al.
Environ Health Perspect 1997 Apr;105 Suppl 3:557
Estrogenic and DNA–damaging activity of Red No. 3 in human breast cancer cells. Dees C, et al.
Environ Health Perspect 1997 Apr;105 Suppl 3:625–32
Serum sex hormone levels are related to breast cancer risk in postmenopausal women. Dorgan JF, et al.
Environ Health Perspect 1997 Apr;105 Suppl 3:583–5
Sex steroid hormones, bone mineral density, and risk of breast cancer. Kuller LH, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:593–9
Hormone–associated cancer: mechanistic similarities between human breast cancer and estrogen–induced kidney carcinogenesis in hamsters. Liehr JG.
Environ Health Perspect 1997 Apr;105 Suppl 3:565–9 (54 ref.)
Is DDT use a public health problem in Mexico? [see comments] López–Carrillo L, et al.
Environ Health Perspect 1996 Jun;104(6):584–8. Comment in: Environ Health Perspect 1997 Jan;105(1):14–5.
Mammary gland neoplasia [comment] Neumann DA, et al. **Environ Health Perspect** 1996 Sep;104(9):912–4 (13 ref.). Comment on: Environ Health Perspect 1996 Sep;104(9):938–67.
Mammary gland neoplasia in long–term rodent studies [see comments] Russo IH, et al. **Environ Health Perspect** 1996 Sep;104(9):938–67 (266 ref.). Comment in: Environ Health Perspect 1996 Sep;104(9):912–4.
Is there an association between exposure to environmental estrogens and breast cancer? Safe SH.
Environ Health Perspect 1997 Apr;105 Suppl 3:675–8 (49 ref.)
Mechanisms, proof, and unmet needs: the perspective of a cancer activist. Steingraber S. **Environ Health Perspect** 1997 Apr;105 Suppl 3:685–7
Endogenous estrogens and breast cancer risk: the case for prospective cohort studies. Toniolo PG.
Environ Health Perspect 1997 Apr;105 Suppl 3:587–92 (72 ref.)
Breast cancer risk and environmental exposures. Wolff MS, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:891–6 (76 ref.)
Estrogenic activity of natural and synthetic estrogens in human breast cancer cells in culture. Zava DT, et al.
Environ Health Perspect 1997 Apr;105 Suppl 3:637–45
Evidence that adult life risk factors influence the expression of familial propensity to breast cancer. Katsouyanni K, et al. **Epidemiology** 1997 Sep;8(5):592–5
Age when maximum height is reached as a risk factor for breast cancer among young U.S. women. Li CI, et al.
Epidemiology 1997 Sep;8(5):559–65
Does induced or spontaneous abortion affect the risk of breast cancer? Michels KB, et al. **Epidemiology** 1996 Sep; 7(5):521–8 (79 ref.)
Breast cancer and magnetic fields [editorial; comment] Preston–Martin S. **Epidemiology** 1996 Sep;7(5):457–8. Comment on: Epidemiology 1996 Sep;7(5):459–64.
Alcohol consumption and breast cancer risk among women under age 45 years [see comments] Swanson CA, et al. **Epidemiology** 1997 May;8(3):231–7. Comment in: Epidemiology 1997 May;8(3):225–7.
Sobering data on alcohol and breast cancer [editorial; comment] Willett WC, et al. **Epidemiology** 1997 May; 8(3):225–7. Comment on: Epidemiology 1997 May;8(3):231–7.
Comments on the Role of reproductive and menstrual factors in cancer of the breast before and after menopause, Talamini et al., Eur J Cancer, 32A, no. 2, pp. 303–310, 1996 [letter; comment] Berstein L. **Eur J Cancer** 1996 Nov; 32A(12):2181–2. Comment on: Eur J Cancer 1996 Feb;32A(2):303–10.
Life events and the risk of breast cancer: a case–control study. Ginsberg A, et al. **Eur J Cancer** 1996 Nov;32A(12):2049–52
Does age at last birth affect breast cancer risk? [letter; comment] Maguire A, et al. **Eur J Cancer** 1996 Oct; 32A(11):2029–30. Comment on: Eur J Cancer 1996 Jan;32A(1):118–21.
Angiosarcoma of the breast after conservative surgery and radiation therapy for breast carcinoma: three new cases [letter] Molitor JL, et al. **Eur J Cancer** 1996 Sep; 32A(10):1820
Hormonal events during female puberty in relation to breast cancer risk. Apter D. **Eur J Cancer Prev** 1996 Dec; 5(6):476–82
Cigarette smoking and the risk of breast cancer. Braga C, et al. **Eur J Cancer Prev** 1996 Jun;5(3):159–64
AIDS turnaround: first remedy the adverse effects of the condom policy [letter] Gjorgov AN.
Eur J Cancer Prev 1997 Feb;6(1):96–9
Oral contraceptives, menopausal hormone replacement treatment and breast cancer risk. Levi F, et al.
Eur J Cancer Prev 1996 Aug;5(4):259–66
Dual role of oestrogens as hormones and pro–carcinogens: tumour initiation by metabolic activation of oestrogens. Liehr JG. **Eur J Cancer Prev** 1997 Feb;6(1):3–10 (75 ref.)
Thyroid disorders and breast cancer. Shering SG, et al.
Eur J Cancer Prev 1996 Dec;5(6):504–6
Breast size and breast cancer risk. Tavani A, et al.
Eur J Cancer Prev 1996 Oct;5(5):337–42
A breast cancer case–control study in Girona, Spain.

Endocrine, familial and lifestyle factors. Viladiu P, et al. **Eur J Cancer Prev** 1996 Oct;5(5):329–35

Mortality trends and past and current dietary factors of breast cancer in Spain. Prieto–Ramos F, et al. **Eur J Epidemiol** 1996 Apr;12(2):141–8

Steroid hormones and cancer: (III) observations from human subjects. Miller WR, et al. **Eur J Surg Oncol** 1997 Apr; 23(2):163–77; quiz 177–8, 183 (228 ref.)

Misplaced confidences? [letter; comment] Campagnoli C, et al. **Fertil Steril** 1996 Nov;66(5):859–61. Comment on: Fertil Steril 1996 Mar;65(3):470–1.

Breast cancer and the reproductive endocrinologist [editorial] [see comments] Kazer RR. **Fertil Steril** 1996 Mar; 65(3):470–1. Comment in: Fertil Steril 1996 Nov;66(5):859; discussion 860–1. Comment in: Fertil Steril 1996 Nov;66(5):859–61. Comment in: Fertil Steril 1996 Nov;66(5):861–2.

Editorial comment. "Misplaced confidences?" [editorial; comment] McDonough PG. **Fertil Steril** 1996 Nov; 66(5):861–2. Comment on: Fertil Steril 1996 Mar;65(3):470–1.

Gall stones, colorectal and other cancers [comment] Ekbom A. **Gut** 1996 Sep;39(3):491. Comment on: Gut 1996 Sep;39(3):439–43.

What is the relationship between breast cancer risk and mammography screening? A meta–analytic review. McCaul KD, et al. **Health Psychol** 1996 Nov;15(6):423–9

Fertility treatment and risk of breast cancer. Braga C, et al. **Hum Reprod** 1996 Feb;11(2):300–3

The link between female infertility and cancer: epidemiology and possible aetiologies. Meirow D, et al. **Hum Reprod Update** 1996 Jan–Feb;2(1):63–75 (114 ref.)

The silicone controversy [letter] Reed MJ. **Immunol Today** 1996 Mar;17(3):147

Multiple births and breast cancer [letter] La Vecchia C, et al. **Int J Cancer** 1996 Nov 15;68(4):553–4

Body–size indicators and risk of breast cancer according to menopause and estrogen–receptor status. Männistö S, et al. **Int J Cancer** 1996 Sep 27;68(1):8–13

A search for recall bias in a case–control study of diet and breast cancer. Holmberg L, et al. **Int J Epidemiol** 1996 Apr;25(2):235–44

Risk factors for breast cancer in Brazil [letter; comment] Maguire A, et al. **Int J Epidemiol** 1996 Apr;25(2):455–7. Comment on: Int J Epidemiol 1995 Apr;24(2):292–9.

The mind–body connection––anxiety, panic, mood and compulsion [news] **Int J Fertil Menopausal Stud** 1996 Nov–Dec;41(6):498–505

Increased risk of breast cancer in splenectomized patients undergoing radiation therapy for Hodgkin's disease. Chung CT, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15; 37(2):405–9

Fat, caloric intake, and obesity: lifestyle risk factors for breast cancer. Greenwald P, et al. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S24–30 (76 ref.)

Alcohol, estrogens, and breast cancer [letter; comment] Zumoff B. **J Clin Endocrinol Metab** 1997 Jul;82(7):2378. Comment on: J Clin Endocrinol Metab 1997 Jun;82(6):1656–8.

Assessing individual risk for breast cancer: risky business. McTiernan A, et al. **J Clin Epidemiol** 1997 May; 50(5):547–56 (60 ref.)

Induced abortion as an independent risk factor for breast cancer: a comprehensive review and meta–analysis [see comments] Brind J, et al. **J Epidemiol Community Health** 1996 Oct;50(5):481–96. Comment in: J Epidemiol Community Health 1996 Dec;50(6):605.

Abortion, breast cancer, and impact factors––in this number and the last [editorial; comment] Donnan S. **J Epidemiol Community Health** 1996 Dec;50(6):605. Comment on: J Epidemiol Community Health 1996 Oct;50(5):481–96.

Noncutaneous malignant tumors in the PUVA follow–up study: 1975–1996. Stern RS, et al. **J Invest Dermatol** 1997 Jun;108(6):897–900

Re: Induced abortion and risk for breast cancer: reporting (recall) bias in a Dutch case–control study [letter; comment] Brind J, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):588–90. Comment on: J Natl Cancer Inst 1996 Dec 4;88(23):1698–700. Comment on: J Natl Cancer Inst 1996 Dec 4;88(23):1759–64.

Intrauterine environment and breast cancer risk in women: a population–based study. Ekbom A, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):71–6

Details seen as critical to Long Island study [news] Keoun B. **J Natl Cancer Inst** 1996 Dec 4;88(23):1711–3

Comparison of risk factors for ductal carcinoma in situ and invasive breast cancer. Kerlikowske K, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):76–82

Regional differences in known risk factors and the higher incidence of breast cancer in San Francisco. Robbins AS, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):960–5

Induced abortion and risk for breast cancer: reporting (recall) bias in a Dutch case–control study [see comments] Rookus MA, et al. **J Natl Cancer Inst** 1996 Dec 4;88(23):1759–64. Comment in: J Natl Cancer Inst 1996 Dec 4;88(23):1698–700. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):588–90.

Re: Reversal of relation between body mass and endogenous estrogen concentrations with menopausal status [letter; comment] Thomas HV, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):396–8. Comment on: J Natl Cancer Inst 1996 Jun 5;88(11):756–8.

Mammography controversies: time for informed consent? [letter] van Netten JP, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1164–5

Induced abortion, bias, and breast cancer: why epidemiology hasn't reached its limit [editorial; comment] [see comments] Weed DL, et al. **J Natl Cancer Inst** 1996 Dec 4; 88(23):1698–700. Comment on: J Natl Cancer Inst 1996 Dec 4;88(23):1759–64. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):588–90.

Diet, anthropometry and breast cancer: integration of experimental and epidemiologic approaches. Clinton SK. **J Nutr** 1997 May;127(5 Suppl):916S–920S (25 ref.)

Fat, energy and breast cancer. Willett WC. **J Nutr** 1997 May; 127(5 Suppl):921S–923S (32 ref.)

Birthweight as risk factor for breast cancer [letter; comment] Berstein L. **Lancet** 1997 Feb 15;349(9050):501–2. Comment on: Lancet 1996 Dec 7;348(9041):1542–6.

Birthweight as a risk factor for breast cancer [see comments] Michels KB, et al. **Lancet** 1996 Dec 7;348(9041):1542–6. Comment in: Lancet 1996 Dec 7;348(9041):1531. Comment in: Lancet 1997 Feb 15;349(9050):501; discussion 502. Comment in: Lancet 1997 Feb 15;349(9050):501–2. Comment in: Lancet 1997 Feb 15;349(9050):502.

Birthweight as risk factor for breast cancer [letter] Peto R. **Lancet** 1997 Feb 15;349(9050):501; discussion 502

Birthweight as risk factor for breast cancer [letter; comment] Stoll BA. **Lancet** 1997 Feb 15;349(9050):501; discussion 502. Comment on: Lancet 1996 Dec 7;348(9041):1542–6.

Birthweight as risk factor for breast cancer [letter; comment] Van Assche FA. **Lancet** 1997 Feb 15;349(9050):502. Comment on: Lancet 1996 Dec 7;348(9041):1531. Comment on: Lancet 1996 Dec 7;348(9041):1542–6.

Can prenatal factors influence future breast cancer risk? [comment] [see comments] Vatten L. **Lancet** 1996 Dec 7; 348(9041):1531. Comment on: Lancet 1996 Dec 7;348(9041):1542–6. Comment in: Lancet 1997 Feb 15;349(9050):502.

Ataxia telangiectasia and risk of breast cancer [letter] Werneke U. **Lancet** 1997 Sep 6;350(9079):739–40

Stewart–Treves angiosarcoma of arm and ipsilateral breast in post–traumatic lymphedema. Trattner A, et al. **Lymphology** 1996 Jun;29(2):57–9

Dairy products and breast cancer: the IGF–I, estrogen, and bGH hypothesis. Outwater JL, et al. **Med Hypotheses** 1997 Jun;48(6):453–61 (131 ref.)

Is breast cancer caused by late exposure to a common virus? Richardson A. **Med Hypotheses** 1997 Jun;48(6):491–7 (69 ref.)

Induced abortion and the risk of breast cancer [letter; comment] Brind J, et al. **N Engl J Med** 1997 Jun 19; 336(25):1834; discussion 1835. Comment on: N Engl J Med 1997 Jan 9;336(2):81–5.

Abortion, breast cancer, and epidemiology [editorial; comment] Hartge P. **N Engl J Med** 1997 Jan 9;336(2):127–8. Comment on: N Engl J Med 1997 Jan 9;336(2):81–5.

Induced abortion and the risk of breast cancer [see comments] Melbye M, et al. **N Engl J Med** 1997 Jan 9;336(2):81–5. Comment in: N Engl J Med 1997 Jan 9;336(2):127–8. Comment in: N Engl J Med 1997 Jun 19;336(25):1834; discussion 1835. Comment in: ACP J Club 1997 Jul–Aug;127(1):18.

Induced abortion and the risk of breast cancer [letter; comment] Senghas RE, et al. **N Engl J Med** 1997 Jun 19; 336(25):1834; discussion 1835. Comment on: N Engl J Med 1997 Jan 9;336(2):81–5.

High bone mass as a marker for breast cancer risk. O'Brien K, et al. **Nutr Rev** 1997 Jul;55(7):284–6 (9 ref.)

The relationship of body mass index to reproductive factors in pre– and postmenopausal African–American women with and without breast cancer. Adams–Campbell LL, et al. **Obes Res** 1996 Sep;4(5):451–6

Assessing women's potential risk of developing breast cancer. Vogel VG. **Oncology (Huntingt)** 1996 Oct;10(10):1451–8, 1461; discussion 1462–3 (52 ref.)

Sex steroids and malignancies. Baum M. **Osteoporos Int** 1997; 7 Suppl 1:S18–22 (22 ref.)

Anaplastic T–cell lymphoma in proximity to a saline–filled breast implant [letter] Keech JA Jr, et al. **Plast Reconstr Surg** 1997 Aug;100(2):554–5

Controversies surrounding diet and breast cancer. Kohlmeier L, et al. **Proc Nutr Soc** 1997 Mar;56(1B):369–82 (85 ref.)

The role of body mass index in the relative risk of developing premenopausal versus postmenopausal breast cancer. Cleary MP, et al. **Proc Soc Exp Biol Med** 1997 Oct; 216(1):28–43 (215 ref.)

Etiology of Breast and Gynecological Cancers. Proceedings of the 9th International Conference on Carcinogenesis and Risk Assessment. Austin, Texas, November 29 – December 2, 1995. **Prog Clin Biol Res** 1997;396:1–282

Genotoxicity of environmental agents in human mammary epithelial cells: a trigger for human breast cancer. Eldridge SR, et al. **Prog Clin Biol Res** 1997;396:125–31 (35 ref.)

Radiation and breast cancer risk. Land CE. **Prog Clin Biol Res** 1997;396:115–24 (27 ref.)

Defining etiologic heterogeneity in breast cancer using genetic biomarkers. Rebbeck TR, et al. **Prog Clin Biol Res** 1997;396:53–61 (20 ref.)

Diet and breast cancer: opportunities for prevention and intervention. Rose DP, et al. **Prog Clin Biol Res** 1997; 396:147–58 (51 ref.)

Toward a unified concept of mammary carcinogenesis. Russo J, et al. **Prog Clin Biol Res** 1997;396:1–16 (69 ref.)

Effects of 60–Hz fields, estradiol and xenoestrogens on human breast cancer cells. Dees C, et al. **Radiat Res** 1996 Oct; 146(4):444–52

Radon plateout on synthetic fibers as a possible risk factor in breast cancer [letter] [see comments] Kildea PM Jr, et al. **Risk Anal** 1996 Feb;16(1):1–2. Comment in: Risk Anal 1996 Dec;16(6):729–30.

Chest wall fibromatosis associated with silicone breast implants. Aaron AD, et al. **Surg Oncol** 1996 Apr;5(2):93–9

Amplification units and translocation at chromosome 17q and c–erbB–2 overexpression in the pathogenesis of breast cancer. Coene ED, et al. **Virchows Arch** 1997 May; 430(5):365–72

[Breast carcinoma caused by constrictive clothing] Queisser W. **Med Klin** 1996 Nov 15;91(11):721–2 **(Ger)**

[Stress and depression are not causes of cancer] Schwarz R. **Strahlenther Onkol** 1996 Nov;172(11):632–3 **(Ger)**

[Some insufficiently recognized risk factors for breast cancer] Kocić B, et al. **Srp Arh Celok Lek** 1996 Jul–Aug; 124(7–8):175–8 (Eng. Abstr.) **(Scc)**

[The significance of physical activity and anthropometric parameters for the development of breast cancer] Kocić B, et al. **Vojnosanit Pregl** 1996 Jul–Aug;53(4):301–4 (Eng. Abstr.) **(Scr)**

GENETICS

The problem of skipped generation and subclinical disease in familial breast–ovarian cancer. Dørum A, et al. **Acta Obstet Gynecol Scand** 1997 Feb;76(2):166–8

Inherited breast carcinoma––prospective findings in 1,194 women at risk. Møller P, et al. **Acta Oncol** 1996;35 Suppl 8:7–11

Overview on human breast cancer with focus on prognostic and predictive factors with special attention on the tumour suppressor gene p53. Norberg T, et al. **Acta Oncol** 1996; 35 Suppl 5:96–102 (60 ref.)

Mammography of breast carcinoma in women who have mutations of the breast cancer gene BRCA1: initial experience. Helvie MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1599–602

p53 protein overexpression in relation to risk factors for breast cancer. van der Kooy K, et al. **Am J Epidemiol** 1996 Nov 15;144(10):924–33

The founder mutations 185delAG and 5382insC in BRCA1 and 6174delT in BRCA2 appear in 60% of ovarian cancer and 30% of early–onset breast cancer patients among Ashkenazi women. Abeliovich D, et al. **Am J Hum Genet** 1997 Mar;60(3):505–14

Interactions between genetic and reproductive factors in breast cancer risk in a French family sample. Andrieu N, et al. **Am J Hum Genet** 1997 Sep;61(3):678–90

Cancer risks in two large breast cancer families linked to BRCA2 on chromosome 13q12–13. Easton DF, et al. **Am J Hum Genet** 1997 Jul;61(1):120–8

Recurrent germ–line BRCA1 mutations in extended African American families with early–onset breast cancer [letter] Gao Q, et al. **Am J Hum Genet** 1997 May;60(5):1233–6

Moderate frequency of BRCA1 and BRCA2 germ–line mutations in Scandinavian familial breast cancer [see comments] Håkansson S, et al. **Am J Hum Genet** 1997 May; 60(5):1068–78. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Founder BRCA1 and BRCA2 mutations in Ashkenazi Jews in Israel: frequency and differential penetrance in ovarian cancer and in breast–ovarian cancer families [see comments] Levy–Lahad E, et al. **Am J Hum Genet** 1997 May;60(5):1059–67. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

A high proportion of novel mutations in BRCA1 with strong founder effects among Dutch and Belgian hereditary breast and ovarian cancer families [see comments] Peelen T, et al. **Am J Hum Genet** 1997 May;60(5):1041–9. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Analysis of BRCA1 and BRCA2 mutations in Hungarian families with breast or breast–ovarian cancer [letter] Ramus SJ, et al. **Am J Hum Genet** 1997 May;60(5):1242–6

Screening for 185delAG in the Ashkenazim. Richards CS, et al. **Am J Hum Genet** 1997 May;60(5):1085–98

BRCA2 in American families with four or more cases of breast or ovarian cancer: recurrent and novel mutations, variable expression, penetrance, and the possibility of families whose cancer is not attributable to BRCA1 or BRCA2 [see comments] Schubert EL, et al. **Am J Hum Genet** 1997 May;60(5):1031–40. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Mutations in BRCA1 and BRCA2 in breast cancer families: are there more breast cancer–susceptibility genes? Serova OM, et al. **Am J Hum Genet** 1997 Mar;60(3):486–95

BRCA2 mutations in hereditary breast and ovarian cancer in France [letter] Serova–Sinilnikova OM, et al. **Am J Hum Genet** 1997 May;60(5):1236–9

BRCA1 sequence variations in 160 individuals referred to a breast/ovarian family cancer clinic. Institut Curie Breast Cancer Group [see comments] Stoppa–Lyonnet D, et al. **Am J Hum Genet** 1997 May;60(5):1021–30. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Population genetics of BRCA1 and BRCA2 [editorial; comment] Szabo CI, et al. **Am J Hum Genet** 1997 May; 60(5):1013–20. Comment on: Am J Hum Genet 1997 May;60(5):1021–30. Comment on: Am J Hum Genet 1997

May;60(5):1031–40. Comment on: Am J Hum Genet 1997 May;60(5):1041–9. Comment on: Am J Hum Genet 1997 May;60(5):1050–8. Comment on: Am J Hum Genet 1997 May;60(5):1059–67. Comment on: Am J Hum Genet 1997 May;60(5):1068–78. Comment on: Am J Hum Genet 1997 May;60(5):1079–84.

Study of a single BRCA2 mutation with high carrier frequency in a small population [see comments] Thorlacius S, et al. **Am J Hum Genet** 1997 May;60(5):1079–84. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

A low proportion of BRCA2 mutations in Finnish breast cancer families [see comments] Vehmanen P, et al. **Am J Hum Genet** 1997 May;60(5):1050–8. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

A somatic truncating mutation in BRCA2 in a sporadic breast tumor [letter] Weber BH, et al. **Am J Hum Genet** 1996 Oct;59(4):962–4

Prevalence and contribution of BRCA1 mutations in breast cancer and ovarian cancer: results from three U.S. population–based case–control studies of ovarian cancer. Whittemore AS, et al. **Am J Hum Genet** 1997 Mar; 60(3):496–504

A review of hereditary breast cancer: from screening to risk factor modification. Warmuth MA, et al. **Am J Med** 1997 Apr;102(4):407–15 (84 ref.)

BRCA1 in the family: a case description of the psychological implications. DudokdeWit AC, et al. **Am J Med Genet** 1997 Jul 11;71(1):63–71

Genetic testing for breast cancer susceptibility: awareness and interest among women in the general population. Tambor ES, et al. **Am J Med Genet** 1997 Jan 10;68(1):43–9

Notification of a family history of breast cancer: issues of privacy and confidentiality. Winter PR, et al. **Am J Med Genet** 1996 Dec 2;66(1):1–6

BRCA1 185delAG mutation in a non–Ashkenazi Jewish woman with early–onset breast and ovarian cancer [letter] Menczer J, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):731

Racial differences in breast cancer survival: the interaction of socioeconomic status and tumor biology. Simon MS, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S233–9

Analysis of estrogen receptor messenger RNA in breast carcinomas from archival specimens is predictive of tumor biology. Carmeci C, et al. **Am J Pathol** 1997 May; 150(5):1563–70

Analysis of loss of heterozygosity on chromosome 11q13 in atypical ductal hyperplasia and in situ carcinoma of the breast. Chuaqui RF, et al. **Am J Pathol** 1997 Jan; 150(1):297–303

Expression of estrogen receptor variant messenger RNAs and determination of estrogen receptor status in human breast cancer. Huang A, et al. **Am J Pathol** 1997 May; 150(5):1827–33

Genetic changes in intraductal breast cancer detected by comparative genomic hybridization. Kuukasjärvi T, et al. **Am J Pathol** 1997 Apr;150(4):1465–71

Lysyl oxidase gene expression in the stromal reaction to in situ and invasive ductal breast carcinoma. Peyrol S, et al. **Am J Pathol** 1997 Feb;150(2):497–507

Amplification of CCND1 and expression of its protein product, cyclin D1, in ductal carcinoma in situ of the breast. Simpson JF, et al. **Am J Pathol** 1997 Jul;151(1):161–8

Correlation between low neuraminidase blood levels and a predisposition toward family–related breast cancer. Rothenberg RE, et al. **Am Surg** 1996 Nov;62(11):949–51

Quantitation of estrogen receptor mRNA and its alternatively spliced mRNAs in breast tumor cells and tissues. Fasco MJ. **Anal Biochem** 1997 Feb 15;245(2):167–78

Cell cycle expression of p53 protein, c–Myc gene product and tyrosine–phosphorylation level determined by image analysis in human breast cancer cells. Caldani C, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):233–40

DNA flow cytometry in node–positive breast cancer. Prognostic value and correlation with morphologic and clinical factors. Pfisterer J, et al. **Anal Quant Cytol Histol** 1995 Dec;17(6):406–12

DNA ploidy on cytologic and tissue sections of breast lumps. A comparison using image analysis. Sarker SK, et al. **Anal Quant Cytol Histol** 1996 Feb;18(1):19–22

Testing the value of a measurement protocol for DNA image cytometry and comparing different cytologic preparations. Williams RA, et al. **Anal Quant Cytol Histol** 1996 Dec; 18(6):429–37

Clinical and research issues in breast cancer genetics. Mark HF, et al. **Ann Clin Lab Sci** 1996 Sep–Oct;26(5):396–408 (32 ref.)

Oestrogen receptor variants and mutations in human breast cancer. Murphy LC, et al. **Ann Med** 1997 Jun;29(3):221–34 (82 ref.)

Expression of MAGE and BAGE genes in Japanese breast cancers. Fujie T, et al. **Ann Oncol** 1997 Apr;8(4):369–72

Drug resistance markers: are they bad or good? [editorial; comment] Morrow C, et al. **Ann Oncol** 1997 Apr;8(4):314–5 . Comment on: Ann Oncol 1997 Apr;8(4):335–41. Comment on: Ann Oncol 1997 Apr;8(4):343–50.

Absence of p16 gene (CDKN2) deletions in microdissected primary breast carcinoma specimens. Calvano JE, et al. **Ann Surg Oncol** 1997 Jul–Aug;4(5):416–20

pS2 expression induced by American ginseng in MCF–7 breast cancer cells. Duda RB, et al. **Ann Surg Oncol** 1996 Nov;3(6):515–20

Microsatellite instability in breast cancer. Rush EB, et al. **Ann Surg Oncol** 1997 Jun;4(4):310–5

Loss of heterozygosity at chromosome 7q in human breast cancer: association with clinical variables. Kristjansson AK, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):93–8

Clonal analysis by PCR and RFLP in breast cancer and precancerous lesions. Preliminary data. Malamou–Mitsi VD, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3943–8

Introduction of the c–kit gene leads to growth suppression of a breast cancer cell line, MCF–7. Nishida K, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3397–402

Genomic instability and poor prognosis associated with abnormal TP53 in breast carcinomas. Molecular and immunohistochemical analysis. Valgardsdottir R, et al. **APMIS** 1997 Feb;105(2):121–30

Expression of the CD44 variant isoforms 6 and 4/5 in breast cancer. Correlation with established prognostic parameters. Regidor PA, et al. **Arch Gynecol Obstet** 1996;258(3):125–35

Some public health issues in the current state of genetic testing for breast cancer in Australia [see comments] Hopper JL. **Aust N Z J Public Health** 1996 Oct; 20(5):467–72 (28 ref.). Comment in: Aust N Z J Public Health 1996 Oct;20(5):451–2.

Retinoic acids differentially regulate NOR–1 and its closely related orphan nuclear receptor genes in breast cancer cell line MCF–7. Maruyama K, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):417–20

Characterisation of DNA binding and transcriptional regulatory function of an endogenous mutant p53 in MDA–468 human breast cancer cells. Prasad KA, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):14–9

Relaxation of imprinting of human insulin–like growth factor II gene, IGF2, in sporadic breast carcinomas. Wu HK, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):123–9

Overexpression of insulin–like growth factor II in human breast cancer cells. Abdul–Wahab K, et al. **Biochem Soc Trans** 1996 Aug;24(3):364S

Identification of the region(s) of human DNA responsible for metastasis in breast cancer. Chen HJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):354S

Overexpression of insulin–like growth factor II alters serum sensitivity of breast cancer cells. Corcoran D, et al. **Biochem Soc Trans** 1996 Aug;24(3):362S

S100A3 mRNA expression displays an inverse correlation to breast cancer progression. Lloyd BH, et al. **Biochem Soc Trans** 1996 Aug;24(3):340S

Oestrogen and insulin interact at the level of transcription in breast cancer cells. el–Tanani MK, et al. **Biochem Soc Trans** 1996 Aug;24(3):343S

Synergism between oestradiol and cAMP for specific gene transcription in breast cancer cells. el–Tanani MK, et al. **Biochem Soc Trans** 1996 Aug;24(3):344S

Identification of a motif within the 5' regulatory region of pS2 which is responsible for AP–1 binding and TCDD–mediated suppression. Gillesby BE, et al. **Biochemistry** 1997 May 20;36(20):6080–9

Microdissection RT–PCR analysis of gene expression in pathologically defined frozen tissue sections. Hiller T, et al. **Biotechniques** 1996 Jul;21(1):38–40, 42, 44

Women's need for information before attending genetic counselling for familial breast or ovarian cancer: a questionnaire, interview, and observational study. Hallowell N, et al. **BMJ** 1997 Jan 25;314(7076):281–3

A comparative study of detection of p53 mutations in human breast cancer by flow cytometry, single–strand conformation polymorphism and genomic sequencing. Chakravarty G, et al. **Br J Cancer** 1996 Oct;74(8):1181–7

Loss of heterozygosity at chromosome 6q in preinvasive and early invasive breast carcinomas. Chappell SA, et al. **Br J Cancer** 1997;75(9):1324–9

DNA amplifications at 20q13 and MDM2 define distinct subsets of evolved breast and ovarian tumours. Courjal F, et al. **Br J Cancer** 1996 Dec;74(12):1984–9

Microsatellite instability and loss of heterozygosity in mammary carcinoma and its probable precursors. Dillon EK, et al. **Br J Cancer** 1997;76(2):156–62

Classical gene amplifications in human breast cancer are not associated with distant solid metastases. Driouch K, et al. **Br J Cancer** 1997;76(6):784–7

Localization of a breast cancer tumour–suppressor gene to a 3–cM interval within chromosomal region 16q22. Iida A, et al. **Br J Cancer** 1997;75(2):264–7

Novel patterns of p53 abnormality in breast cancer from Taiwan: experience from a low–incidence area. Lou MA, et al. **Br J Cancer** 1997;75(5):746–51

No association of a 306–bp insertion polymorphism in the progesterone receptor gene with ovarian and breast cancer [letter] Manolitsas TP, et al. **Br J Cancer** 1997;75(9):1398–9

BRCA1 5382insC mutation in sporadic and familial breast and ovarian carcinoma in Scotland. Mullen P, et al. **Br J Cancer** 1997;75(9):1377–80

Mutation of the TP53 gene and allelic imbalance at chromosome 17p13 in ductal carcinoma in situ. Munn KE, et al. **Br J Cancer** 1996 Nov;74(10):1578–85

Allelic loss at chromosome 13q12–q13 is associated with poor prognosis in familial and sporadic breast cancer. van den Berg J, et al. **Br J Cancer** 1996 Nov;74(10):1615–9

High incidence of interleukin 10 mRNA but not interleukin 2 mRNA detected in human breast tumours. Venetsanakos E, et al. **Br J Cancer** 1997;75(12):1826–30

High levels of loss at the 17p telomere suggest the close proximity of a tumour suppressor. White GR, et al. **Br J Cancer** 1996 Sep;74(6):863–70

Screening for TP53 mutations in patients and tumours from 109 Swedish breast cancer families. Zelada–Hedman M, et al. **Br J Cancer** 1997;75(8):1201–4

Carney complex: report of a kindred with predominantly cutaneous manifestations. Armstrong DK, et al. **Br J Dermatol** 1997 Apr;136(4):578–82

Breast and prostate cancer in the relatives of men with prostate cancer. McCahy PJ, et al. **Br J Urol** 1996 Oct; 78(4):552–6

Fluorescent in situ hybridization assessment of chromosome 8 copy number in breast cancer. Afify A, et al. **Breast Cancer Res Treat** 1996;38(2):201–8

Cytogenetic studies on a patient with prepubertal breast cancer: a case report. Balsara BR, et al. **Breast Cancer Res Treat** 1996;39(3):343–7

Technical approach for the study of the genetic evolution of breast cancer from paraffin–embedded tissue sections. Chen T, et al. **Breast Cancer Res Treat** 1996;39(2):177–85

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103–9

Amplifications of oncogene erbB–2 and chromosome 20q in breast cancer determined by differentially competitive polymerase chain reaction. Deng G, et al. **Breast Cancer Res Treat** 1996;40(3):271–81

Estrogen increases intracellular p26Bcl–2 to p21Bax ratios and inhibits taxol–induced apoptosis of human breast cancer MCF–7 cells. Huang Y, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):73–81

Effects of short–term antiestrogen treatment of primary breast cancer on estrogen receptor mRNA and protein expression and on estrogen–regulated genes. McClelland RA, et al. **Breast Cancer Res Treat** 1996;41(1):31–41

BRCA2 hereditary breast cancer pathophenotype. Marcus JN, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):275–7

Defining a role for c–Myc in breast tumorigenesis. Nass SJ, et al. **Breast Cancer Res Treat** 1997 May;44(1):1–22 (177 ref.)

S–phase fraction identifies high–risk subgroups among DNA–diploid breast cancers. Romero H, et al. **Breast Cancer Res Treat** 1996;38(3):265–75

Gene therapy strategies for carcinoma of the breast. Ruppert JM, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):93–114 (201 ref.)

Expression of the prolactin gene in normal and neoplastic human breast tissues and human mammary cell lines: promoter usage and alternative mRNA splicing. Shaw–Bruha CM, et al. **Breast Cancer Res Treat** 1997 Jul; 44(3):243–53

A fibroadenoma with a t(4;12) (q27;q15) affecting the HMGI–C gene, a member of the high mobility group protein gene family. Staats B, et al. **Breast Cancer Res Treat** 1996;38(3):299–303

Cytogenetic abnormalities in an in situ ductal carcinoma and five prophylactically removed breasts from members of a family with hereditary breast cancer. Teixeira MR, et al. **Breast Cancer Res Treat** 1996;38(2):177–82

A point mutation in the human estrogen receptor gene is associated with the expression of an abnormal estrogen receptor mRNA containing a 69 novel nucleotide insertion. Wang M, et al. **Breast Cancer Res Treat** 1997 Jun; 44(2):145–51

FISH detection of HER–2/neu oncogene amplification in early onset breast cancer. Xing WR, et al. **Breast Cancer Res Treat** 1996;39(2):203–12

New Ontario familial breast cancer registry to facilitate genetic and epidemiologic studies. Andrulis IL, et al. **Can Fam Physician** 1997 May;43:949–50

Genetic susceptibility testing. A therapeutic illusion [editorial; comment] Freedman TG. **Cancer** 1997 Jun 1; 79(11):2063–5; discussion 2066. Comment on: Cancer 1997 Jun 1;79(11):2219–28.

Influence of BRCA1 mutations on nuclear grade and estrogen receptor status of breast carcinoma in Ashkenazi Jewish women. Karp SE, et al. **Cancer** 1997 Aug 1;80(3):435–41

Family history and survival of young women with invasive breast carcinoma. Malone KE, et al. **Cancer** 1996 Oct 1; 78(7):1417–25

Class I major histocompatibility complex antigens and tumor ploidy in breast and bronchogenic carcinomas. Redondo M, et al. **Cancer Detect Prev** 1997;21(1):22–8

p53 haplotype determination in breast cancer. Weston A, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):105–12

Antisense down–regulation of metallothionein induces growth arrest and apoptosis in human breast carcinoma cells. Abdel–Mageed A, et al. **Cancer Gene Ther** 1997 May–Jun;4(3):199–207

Efficacy of p53 adenovirus–mediated gene therapy against human breast cancer xenografts. Nielsen LL, et al. **Cancer Gene Ther** 1997 Mar–Apr;4(2):129–38

A subgroup of breast carcinomas is cytogenetically characterized by trisomy 12. Adeyinka A, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):119–21

Fluorescence in situ hybridization assessment of chromosome 8 copy number in stage I and stage II infiltrating ductal carcinoma of the breast. Afify A, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):101–5

Molecular genotyping shows that ataxia–telangiectasia heterozygotes are predisposed to breast cancer. Athma P, et al. **Cancer Genet Cytogenet** 1996 Dec;92(2):130–4

DNA hypomethylation in breast cancer: an independent parameter of tumor progression? Bernardino J, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):83–9

A gene dosage effect is responsible for high overexpression of the MUC1 gene observed in human breast tumors. Bièche I, et al. **Cancer Genet Cytogenet** 1997 Oct 1; 98(1):75–80

Comparative study of chromosome aberrations induced with aphidicolin in women affected by breast cancer and cervix uterine cancer. Paz-y-Miño C, et al. **Cancer Genet Cytogenet** 1997 Apr;94(2):120–4

Molecular genetics and cytogenetics of breast carcinomas: comparison of the two methods. Valgardsdottir R, et al. **Cancer Genet Cytogenet** 1996 Nov;92(1):37–42

Genetic predisposition testing for breast cancer [letter] Audeh MW. **Cancer J Sci Am** 1997 Jul–Aug;3(4):254–5

Cyclin D1 (PRAD1) alternative transcript b: full-length cDNA cloning and expression in breast cancers. Hosokawa Y, et al. **Cancer Lett** 1997 Feb 26;113(1–2):123–30

Sequence variants of the estrogen receptor (ER) gene found in breast cancer patients with ER negative and progesterone receptor positive tumors. Iwase H, et al. **Cancer Lett** 1996 Nov 29;108(2):179–84

Telomeric repeat fragment lengths are not correlated to histological grading in 85 breast cancers. Rogalla P, et al. **Cancer Lett** 1996 Sep 10;106(2):155–61

Detection of p53 gene mutations in fine-needle aspiration biopsied breast cancer specimens: correlations with nuclear p53 accumulations and tumor DNA aneuploidy patterns. Sato T, et al. **Cancer Lett** 1997 May 1;115(1):47–55

Identification of sequence alterations in the upstream regulatory region of the estrogen receptor gene in an ER-negative breast cancer cell line. Sullivan JA, et al. **Cancer Lett** 1997 Feb 26;113(1–2):131–9

Microsatellite instability in in situ and invasive sporadic breast cancers of Japanese women. Toyama T, et al. **Cancer Lett** 1996 Nov 29;108(2):205–9

Persistence of chromosomal aberrations in blood lymphocytes 11 years after cessation of CMF therapy in a breast cancer patient. Udayakumar AM, et al. **Cancer Lett** 1996 Oct 1;107(1):1–3

Amplification in tumors and benign tissue of breast cancer patients. Yazici H, et al. **Cancer Lett** 1996 Oct 22; 107(2):235–9

Molecular pathology of breast cancer and its application to clinical management. Walker RA, et al. **Cancer Metastasis Rev** 1997 Jun;16(1–2):5–27 (212 ref.)

Analysis of the FHIT gene and FRA3B region in sporadic breast cancer, preneoplastic lesions, and familial breast cancer probands. Ahmadian M, et al. **Cancer Res** 1997 Sep 1;57(17):3664–8

Deletion map of chromosome 16q in ductal carcinoma in situ of the breast: refining a putative tumor suppressor gene region. Chen T, et al. **Cancer Res** 1996 Dec 15; 56(24):5605–9

Correspondence re: M. R. Teixeira et al., Karyotypic comparisons of multiple tumorous and macroscopically normal surrounding tissue samples from patients with breast cancer. Cancer Res., 56: 855–859, 1996 [letter] Cline JM. **Cancer Res** 1996 Nov 1;56(21):5098

Compartment switching of WNT-2 expression in human breast tumors. Dale TC, et al. **Cancer Res** 1996 Oct 1; 56(19):4320–3

Methylation of the BRCA1 gene in sporadic breast cancer. Dobrovic A, et al. **Cancer Res** 1997 Aug 15;57(16):3347–50

A polymorphism in the CYP17 gene increases the risk of breast cancer. Feigelson HS, et al. **Cancer Res** 1997 Mar 15;57(6):1063–5

Genetic progression, histological grade, and allelic loss in ductal carcinoma in situ of the breast. Fujii H, et al. **Cancer Res** 1996 Nov 15;56(22):5260–5

Transfection with human thioredoxin increases cell proliferation and a dominant-negative mutant thioredoxin reverses the transformed phenotype of human breast cancer cells. Gallegos A, et al. **Cancer Res** 1996 Dec 15; 56(24):5765–70

Abnormal FHIT transcripts in human breast carcinomas: a clinicopathological and epidemiological analysis of 61 Japanese cases. Hayashi S, et al. **Cancer Res** 1997 May 15;57(10):1981–5

Identification of DNA methylation markers for human breast carcinomas using the methylation-sensitive restriction fingerprinting technique. Huang TH, et al. **Cancer Res** 1997 Mar 15;57(6):1030–4

Silencing of the mammary-derived growth inhibitor (MDGI) gene in breast neoplasms is associated with epigenetic changes. Huynh H, et al. **Cancer Res** 1996 Nov 1; 56(21):4865–70

Identification of a breast cancer-specific gene, BCSG1, by direct differential cDNA sequencing. Ji H, et al. **Cancer Res** 1997 Feb 15;57(4):759–64

Genetic heterogeneity and clonal evolution underlying development of asynchronous metastasis in human breast cancer. Kuukasjärvi T, et al. **Cancer Res** 1997 Apr 15; 57(8):1597–604

A p18 mutant defective in CDK6 binding in human breast cancer cells. Lapointe J, et al. **Cancer Res** 1996 Oct 15; 56(20):4586–9

Suppression of metastasis in human breast carcinoma MDA-MB-435 cells after transfection with the metastasis suppressor gene, KiSS-1. Lee JH, et al. **Cancer Res** 1997 Jun 15;57(12):2384–7

Aberrant splicing but not mutations of TSG101 in human breast cancer. Lee MP, et al. **Cancer Res** 1997 Aug 1; 57(15):3131–4

Prevalence of estrogen receptor variant messenger RNAs in human breast cancer. Leygue E, et al. **Cancer Res** 1996 Oct 1;56(19):4324–7

Growth inhibition of human breast cancer cells by 1,25-dihydroxyvitamin D3 is accompanied by induction of apolipoprotein D expression. López-Boado YS, et al. **Cancer Res** 1997 Sep 15;57(18):4091–7

Characterization of functional messenger RNA splice variants of BRCA1 expressed in nonmalignant and tumor-derived breast cells. Lu M, et al. **Cancer Res** 1996 Oct 15;56(20):4578–81

Estrogen receptor messenger RNA splice variants are not involved in antiestrogen resistance in sublines of MCF-7 human breast cancer cells. Madsen MW, et al. **Cancer Res** 1997 Feb 15;57(4):585–9

High levels of allele loss at the FHIT and ATM genes in non-comedo ductal carcinoma in situ and grade I tubular invasive breast cancers. Man S, et al. **Cancer Res** 1996 Dec 1;56(23):5484–9

Identification of seven new BRCA1 germline mutations in Italian breast and breast/ovarian cancer families. Montagna M, et al. **Cancer Res** 1996 Dec 1;56(23):5466–9

The FHIT and PTPRG genes are deleted in benign proliferative breast disease associated with familial breast cancer and cytogenetic rearrangements of chromosome band 3p14. Panagopoulos I, et al. **Cancer Res** 1996 Nov 1;56(21):4871–5

A 1-kb Alu-mediated germ-line deletion removing BRCA1 exon 17. Puget N, et al. **Cancer Res** 1997 Mar 1;57(5):828–31

Characterization of the human homologue of RAD54: a gene located on chromosome 1p32 at a region of high loss of heterozygosity in breast tumors. Rasio D, et al. **Cancer Res** 1997 Jun 15;57(12):2378–83

Mutation analysis of the putative tumor suppressor gene PTEN/MMAC1 in primary breast carcinomas. Rhei E, et al. **Cancer Res** 1997 Sep 1;57(17):3657–9

Regulation of the human retinoic acid receptor alpha gene in the estrogen receptor negative human breast carcinoma cell lines SKBR-3 and MDA-MB-435. Rishi AK, et al. **Cancer Res** 1996 Nov 15;56(22):5246–52

Antitumor activity of the novel human breast cancer growth inhibitor, mammary-derived growth inhibitor-related gene, MRG. Shi YE, et al. **Cancer Res** 1997 Aug 1; 57(15):3084–91

Oncostatin M-mediated transcriptional suppression of the c-myc gene in breast cancer cells. Spence MJ, et al. **Cancer Res** 1997 Jun 1;57(11):2223–8

Overexpression of the c-erbB-2 gene enhanced intrinsic metastasis potential in human breast cancer cells without increasing their transformation abilities. Tan M, et al. **Cancer Res** 1997 Mar 15;57(6):1199–205

Distinct somatic genetic changes associated with tumor progression in carriers of BRCA1 and BRCA2 germ-line mutations. Tirkkonen M, et al. **Cancer Res** 1997 Apr 1; 57(7):1222–7

A screening for BRCA1 mutations in breast and breast-ovarian cancer families from the Stockholm region. Zelada-Hedman M, et al. **Cancer Res** 1997 Jun 15; 57(12):2474–7

An estrogen receptor mutant with strong hormone-independent activity from a metastatic breast cancer. Zhang QX, et al. **Cancer Res** 1997 Apr 1; 57(7):1244–9

Clonal chromosome abnormalities in neoplastic cells: evidence of genetic instability? Heim S. **Cancer Surv** 1996; 28:247–60

Two promoters in expression of estrogen receptor messenger RNA in human breast cancer. Hayashi S, et al. **Carcinogenesis** 1997 Mar;18(3):459–64

Tamoxifen-induced DNA adducts in leucocytes of breast cancer patients. Hemminki K, et al. **Carcinogenesis** 1997 Jan;18(1):9–13

Microsatellite instability and loss of heterozygosity in chromosomes 9 and 16 in human breast epithelial cells transformed by chemical carcinogens. Wu Y, et al. **Carcinogenesis** 1997 May;18(5):1069–74

The TSG101 tumor susceptibility gene is located in chromosome 11 band p15 and is mutated in human breast cancer. Li L, et al. **Cell** 1997 Jan 10;88(1):143–54

Antisense estrogen receptor RNA expression increases epidermal growth factor receptor gene expression in breast cancer cells. deFazio A, et al. **Cell Growth Differ** 1997 Aug; 8(8):903–11

Cell cycle regulation of BRCA1 messenger RNA in human breast epithelial cells. Gudas JM, et al. **Cell Growth Differ** 1996 Jun;7(6):717–23

Gap junction genes Cx26 and Cx43 individually suppress the cancer phenotype of human mammary carcinoma cells and restore differentiation potential. Hirschi KK, et al. **Cell Growth Differ** 1996 Jul;7(7):861–70

Transcriptional defects underlie loss of E-cadherin expression in breast cancer. Ji X, et al. **Cell Growth Differ** 1997 Jul;8(7):773–8

Prohibitin in breast cancer cell lines: loss of antiproliferative activity is linked to 3' untranslated region mutations. Jupe ER, et al. **Cell Growth Differ** 1996 Jul;7(7):871–8

BRCA1 expression is induced before DNA synthesis in both normal and tumor-derived breast cells. Vaughn JP, et al. **Cell Growth Differ** 1996 Jun;7(6):711–5

c-erbB-2/neu protein expression, DNA ploidy and S phase in breast cancer. Dittadi R, et al. **Cell Prolif** 1996 Jul; 29(7):403–12

Elevated levels of ERK2 in human breast carcinoma MCF-7 cells transfected with protein kinase C alpha. Gupta AK, et al. **Cell Prolif** 1996 Dec;29(12):655–63

Estrogenic effects of nonylphenol on pS2, ER and MUC1 gene expression in human breast cancer cells-MCF-7. Ren L, et al. **Chem Biol Interact** 1997 Apr 18;104(1):55–64

Quantitative polymerase chain reaction-based homogeneous assay with fluorogenic probes to measure c-erbB-2 oncogene amplification. Gelmini S, et al. **Clin Chem** 1997 May;43(5):752–8

BRCA1 mutation testing: controversies and challenges [editorial; comment] Petty EM, et al. **Clin Chem** 1997 Jan; 43(1):6–8. Comment on: Clin Chem 1997 Jan;43(1):24–9.

Direct detection of mutations in the breast and ovarian cancer susceptibility gene BRCA1 by PCR-mediated site-directed mutagenesis [see comments] Rohlfs EM, et al. **Clin Chem** 1997 Jan;43(1):24–9. Comment in: Clin Chem 1997 Jan;43(1):6–8.

Prognostic significance of c-erbB-2/neu amplification and epidermal growth factor receptor (EGFR) in primary breast cancer and their relation to estradiol receptor (ER) status. Torregrosa D, et al. **Clin Chim Acta** 1997 Jun 27; 262(1–2):99–119

Expression of c-ets-1 mRNA is associated with an invasive, EMT-derived phenotype in breast carcinoma cell lines. Gilles C, et al. **Clin Exp Metastasis** 1997 Sep;15(5):519–26

CD44 exon 6 expression as a possible early prognostic factor in primary node negative breast carcinoma. Guriec N, et al. **Clin Exp Metastasis** 1996 Oct;14(5):434–9

Human breast cancer: genetic alterations in the MET gene region. Tougas L, et al. **Clin Invest Med** 1996 Aug; 19(4):222–30

Genetics of colorectal and breast cancer. Garrett CT, et al. **Clin Lab Med** 1995 Dec;15(4):957–71 (115 ref.)

Risk assessment and presymptomatic molecular diagnosis in hereditary breast cancer. Merajver SD, et al. **Clin Lab Med** 1996 Mar;16(1):139–67

The expression of p53 in patients with coexistent breast carcinoma and malignant melanoma. Barnes N, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):185–6

Prophylactic mastectomy for genetic predisposition to breast cancer: the proband's story. Eeles R, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):222–5

Family history of breast and ovarian cancer among breast-cancer patients in the Connecticut Tumor Registry. Polednak AP, et al. **Conn Med** 1996 Feb;60(2):67–73

Hereditary predisposition to breast cancer. Stratton MR, et al. **Curr Opin Genet Dev** 1996 Feb;6(1):93–7 (29 ref.)

Recent advances in breast cancer biology. Blackwood MA, et al. **Curr Opin Oncol** 1996 Nov;8(6):449–54 (49 ref.)

The BRCA1 and BRCA2 breast cancer genes. Casey G. **Curr Opin Oncol** 1997 Jan;9(1):88–93 (84 ref.)

Breast cancer genetics: family history, heterogeneity, molecular genetic diagnosis, and genetic counselling. Lynch HT, et al. **Curr Probl Cancer** 1996 Nov–Dec; 20(6):329–65 (67 ref.)

Issues in the genetic assessment of predispositions for familial breast and ovarian cancer. Mark HF, et al. **Cytobios** 1996; 87(351):229–35 (21 ref.)

Peripheral blood mononuclear cells are a reliable internal standard for the flow cytometric DNA analysis of frozen malignant breast biopsies. Benn DE, et al. **Cytometry** 1996 Jun 15;26(2):161–5

Comparison of fixation procedures for fluorescent quantitation of DNA content using image cytometry. Maciorowski Z, et al. **Cytometry** 1997 Jun 1;28(2):123–9

A rule-based expert system for the automatic classification of DNA "ploidy" histograms measured by the CAS 200 image analysis system. Marchevsky AM, et al. **Cytometry** 1997 Feb 15;30(1):39–46

DNA-ploidy studies on cytological preparations from breast cancers by image analysis: comparison with Feulgen staining performed in destained Papanicolaou slides. Sidoni A, et al. **Cytometry** 1996 Dec 15;26(4):293–7

A comparison of cytogenetic studies and flow cytometry in breast carcinomas. Steinardóttir M, et al. **Cytometry** 1997 Aug 1;28(4):323–8

Nuclear grading and flow cytometric DNA pattern in fine-needle aspirates of primary breast cancer. Bozzetti C, et al. **Diagn Cytopathol** 1996 Aug;15(2):116–20

Quantitative DNA ploidy analysis of breast carcinoma: a study of the effects of joint photographer experts group (JPEG) compression on DNA ploidy images. Phillips LA, et al. **Diagn Cytopathol** 1996 Sep;15(3):231–6

In situ hybridization of chromosome 6 on fine-needle aspirates from breast carcinomas: comparison of numerical abnormalities and ER/PgR status and staining pattern. Sauer T, et al. **Diagn Cytopathol** 1997 May;16(5):420–4

Sequence analysis of the DNA binding domain of the estrogen receptor gene in ER (+)/PR (–) breast cancer. Mies C, et al. **Diagn Mol Pathol** 1996 Mar;5(1):39–44

High-sensitivity detection of minimal residual breast carcinoma using the polymerase chain reaction and primers for cytokeratin 19. Moscinski LC, et al. **Diagn Mol Pathol** 1996 Sep;5(3):173–80

Detection of p53 gene abnormality by sequence analysis of archival paraffin tissue. A comparison with fresh-frozen specimens. Nadji M, et al. **Diagn Mol Pathol** 1996 Dec; 5(4):279–83

Variations in c-erbB-2 proto-oncogene status in breast cancer tumors as detected by two different cDNA probes. Pegoraro RJ, et al. **Diagn Mol Pathol** 1996 Sep;5(3):181–6

Identification of a specific DNA region required for enhanced transcription of HER2/neu in the MDA-MB453 breast cancer cell line. Miller SJ, et al. **DNA Cell Biol** 1996 Sep;15(9):749-57

Using BRCA1 to treat cancer [news] **Environ Health Perspect** 1996 Jul;104(7):686-7

Free radicals and breast cancer [news] [see comments] **Environ Health Perspect** 1996 Aug;104(8):821. Comment in: Environ Health Perspect 1996 Nov;104(11):1140.

Medical hypothesis: bifunctional genetic-hormonal pathways to breast cancer. Davis DL, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:571-6 (45 ref.)

Polymorphisms of H-ras-1 and p53 in breast cancer and lung cancer: a meta-analysis. Weston A, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:919-26

Evidence that adult life risk factors influence the expression of familial propensity to breast cancer. Katsouyanni K, et al. **Epidemiology** 1997 Sep;8(5):592-5

Prognostic value of quantitative cytometry in a series of 415 T1T2/N0N1/M0 breast cancer patients--preliminary results. Bolla M, et al. **Eur J Cancer** 1996 Sep; 32A(10):1680-5

Oestrogen receptor mutants and variants in breast cancer. Dowsett M, et al. **Eur J Cancer** 1997 Jul;33(8):1177-83 (67 ref.)

BRCA1 mutations found in archived early onset breast tumours. Garvin AM, et al. **Eur J Cancer** 1997 Apr; 33(4):683-6

Tumour biological features of BRCA1-induced breast and ovarian cancer. Jóhannsson OT, et al. **Eur J Cancer** 1997 Mar;33(3):362-71

Hereditary breast cancer risk: factors associated with the decision to undergo BRCA 1 testing. Gil F. **Eur J Cancer Prev** 1996 Dec;5(6):488-90

Proceedings of the Working Group on Hormone-Related Cancer and ECP Workshop, Elbigenalp, Tirol, Austria, 20-22 June 1996. Janssens JP. **Eur J Cancer Prev** 1996 Dec; 5(6):465-7

Cancer prevention, molecular genetics and hereditary cancer syndromes of colon and breast. Lynch HT, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:27-32

Detection of sequential genetic alterations relevant for breast cancer development. Niederacher D, et al. **Eur J Cancer Prev** 1996 Dec;5(6):497-503

Premature separation of centromere and aneuploidy: an indicator of high risk in unaffected individuals from familial breast cancer families? Rao NM, et al. **Eur J Cancer Prev** 1996 Oct;5(5):343-50

The majority of 22 Dutch high-risk breast cancer families are due to either BRCA1 or BRCA2. Peelen T, et al. **Eur J Hum Genet** 1996;4(4):225-30

Hereditary breast cancer in Finnish women. Doepel M, et al. **Eur J Surg** 1995 Nov;161(11):805-9

DNA fingerprinting of benign and malignant breast lesions. Sibbering M, et al. **Eur J Surg Oncol** 1996 Dec;22(6):574-7

Bcl-X(L) expression and its downregulation by a novel retinoid in breast carcinoma cells. Hsu CK, et al. **Exp Cell Res** 1997 Apr 10;232(1):17-24

Women worried about their familial breast cancer risk--a study on genetic advice in general practice. de Bock GH, et al. **Fam Pract** 1997 Feb;14(1):40-3

Flow cytometric DNA-analysis of cells obtained with fine needle aspiration biopsy of the breast. Niezabitowski A, et al. **Gen Diagn Pathol** 1996 Jun;142(1):33-9

Frequent allele loss on 9p21-22 defines a smallest common region in the vicinity of the CDKN2 gene in sporadic breast cancer. An HX, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):14-20

Unusual clonal chromosomal evolution in a breast carcinoma and its lymph node metastasis in a patient with Down syndrome. Bernardino J, et al. **Genes Chromosomes Cancer** 1997 Jul;19(3):195-9

TP53 and MYC gene alterations independently predict poor prognosis in breast cancer patients. Berns EM, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):170-9

Loss of heterozygosity at 7q31 in breast cancer: results from an International Collaborative Study Group. The Breast Cancer Somatic Genetics Consortium. Devilee P, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):193-9

Loss of heterozygosity on chromosome arm 16q in breast cancer metastases. Driouch K, et al. **Genes Chromosomes Cancer** 1997 Jul;19(3):185-91

Detection of frequent allelic loss of 6q23-q25.2 in microdissected human breast cancer tissues. Fujii H, et al. **Genes Chromosomes Cancer** 1996 May;16(1):35-9

German family study on hereditary breast and/or ovarian cancer: germline mutation analysis of the BRCA1 gene. Hamann U, et al. **Genes Chromosomes Cancer** 1997 Feb; 18(2):126-32

Detailed deletion analysis of sporadic breast tumors defines an interstitial region of allelic loss on 17q25. Kalikin LM, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):64-8

Loss of heterozygosity at 11q23.1 in breast carcinomas: indication for involvement of a gene distal and close to ATM. Laake K, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):175-80

Patterns of allelic loss on chromosome 17 in sporadic breast carcinomas detected by fluorescent-labeled microsatellite analysis. Niederacher D, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):181-92

Molecular cytogenetic analysis of a nontumorigenic human breast epithelial cell line that eventually turns tumorigenic: validation of an analytical approach combining karyotyping, comparative genomic hybridization, chromosome painting, and single-locus fluorescence in situ hybridization. Nielsen KV, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):30-7

Genetic alterations in primary breast cancers and their metastases: direct comparison using modified comparative genomic hybridization. Nishizaki T, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):267-72

Deletion of the short arm of chromosome 3 in breast tumors. Pandis N, et al. **Genes Chromosomes Cancer** 1997 Apr; 18(4):241-5 (39 ref.)

Chromosome aberrations in prophylactic mastectomies from women belonging to breast cancer families. Petersson C, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):185-8

Discrimination between multicentric and multifocal breast carcinoma by cytogenetic investigation of macroscopically distinct ipsilateral lesions. Teixeira MR, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):170-4

Evaluation of MYC and chromosome 8 copy number in breast carcinoma by interphase cytogenetics. Visscher DW, et al. **Genes Chromosomes Cancer** 1997 Jan;18(1):1-7

Mutations and alternative splicing of the BRCA1 gene in UK breast/ovarian cancer families. Xu CF, et al. **Genes Chromosomes Cancer** 1997 Feb;18(2):102-10

Loss of heterozygosity from the short arm of chromosome 8 is associated with invasive behavior in breast cancer. Yaremko ML, et al. **Genes Chromosomes Cancer** 1996 Jul; 16(3):189-95

Validation of family history of breast cancer and identification of the BRCA1 and other syndromes using a population-based cancer registry. Anton-Culver H, et al. **Genet Epidemiol** 1996;13(2):193-205

BRCA1 R841W: a strong candidate for a common mutation with moderate phenotype. Barker DF, et al. **Genet Epidemiol** 1996;13(6):595-604

Estimating disease risks for individuals with a given family history in different populations with an application to breast cancer. Becher H, et al. **Genet Epidemiol** 1996;13(3):229-42

Segregation analysis of breast cancer: a comparison of type-dependent age-at-onset versus type-dependent susceptibility models. Ciske DJ, et al. **Genet Epidemiol** 1996; 13(4):317-28

Evaluation of potential sources of bias in a genetic epidemiologic study of breast cancer. Seybolt LM, et al. **Genet Epidemiol** 1997;14(1):85-95

Association between family history of cancer and breast cancer defined by estrogen and progesterone receptor status. Tutera AM, et al. **Genet Epidemiol** 1996;13(2):207-21

The human CAS (cellular apoptosis susceptibility) gene mapping on chromosome 20q13 is amplified in BT474 breast cancer cells and part of aberrant chromosomes in breast and colon cancer cell lines. Brinkmann U, et al. **Genome Res** 1996 Mar;6(3):187-94

From bench to bedside... but when? Eng C. **Genome Res** 1997 Jul;7(7):669-72 (29 ref.)

Complete genomic sequence and analysis of 117 kb of human DNA containing the gene BRCA1. Smith TM, et al. **Genome Res** 1996 Nov;6(11):1029-49

Assignment of HMAT1, the human homolog of the murine mammary transforming gene (MAT1) associated with tumorigenesis, to 1q21.1, a region frequently gained in human breast cancers. Hwang S, et al. **Genomics** 1997 Jun 15;42(3):540-2

The human mammary-derived growth inhibitor (MDGI) gene: genomic structure and mutation analysis in human breast tumors [published erratum appears in Genomics 1996 Sep 1;36(2):377] Phelan CM, et al. **Genomics** 1996 May 15;34(1):63-8

"Decoding" informed consent. Insights from women regarding breast cancer susceptibility testing. Geller G, et al. **Hastings Cent Rep** 1997 Mar-Apr;27(2):28-33

Analysis of DNA and morphometry in breast carcinoma. Aubele M, et al. **Histochem Cell Biol** 1996 Aug; 106(2):241-5

Comparison of chromosome 1 aneusomy detected by interphase cytogenetics and DNA ploidy in carcinoma of the breast. Harrison MM, et al. **Histopathology** 1997 Mar; 30(3):221-6

A polymorphism but no mutations in the GADD45 gene in breast cancers. Blaszyk H, et al. **Hum Genet** 1996 Apr; 97(4):543-7

Common BRCA1 variants and susceptibility to breast and ovarian cancer in the general population. Dunning AM, et al. **Hum Mol Genet** 1997 Feb;6(2):285-9

Comparison of BRCA1 polymorphisms, rare sequence variants and/or missense mutations in unaffected and breast/ovarian cancer populations. Durocher F, et al. **Hum Mol Genet** 1996 Jun;5(6):835-42

Recent advances in understanding of genetic susceptibility to breast cancer. Stratton MR. **Hum Mol Genet** 1996;5 Spec No:1515-9 (50 ref.)

Screening for ESR mutations in breast and ovarian cancer patients. Anderson TI, et al. **Hum Mutat** 1997;9(6):531-6

Three germline mutations in the TP53 gene. Cornelis RS, et al. **Hum Mutat** 1997;9(2):157-63

Mutations and polymorphisms in the familial early-onset breast cancer (BRCA1) gene. Breast Cancer Information Core. Couch FJ, et al. **Hum Mutat** 1996;8(1):8-18

A novel mutation in the BRCA1 gene in a German early-onset breast cancer family. Waindzoch B, et al. **Hum Mutat** 1996;8(4):393

Screening of 229 family cancer patients for a germline estrogen receptor gene (ESR) base mutation [letter] Zelada-Hedman M, et al. **Hum Mutat** 1997;9(3):289

Expression of tissue inhibitor of metalloproteinase-1 and type IV collagenase/gelatinase messenger RNAs in human breast cancer. Lindsay CK, et al. **Hum Pathol** 1997 Mar; 28(3):359-66

Loss of heterozygosity on chromosome 11q13 in lobular lesions of the breast using tissue microdissection and polymerase chain reaction. Nayar R, et al. **Hum Pathol** 1997 Mar;28(3):277-82

Identification of the BRCA1 breast cancer gene and its clinical implications. Kamb A, et al. **Important Adv Oncol** 1996;:23-35 (94 ref.)

Transcriptional regulation of the TGF-beta 2 gene in choriocarcinoma cells and breast carcinoma cells: differential utilization of Cis-regulatory elements. Kingsley-Kallesen M, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):294-301

Expression of connective tissue growth factor mRNA in the fibrous stroma of mammary tumors. Frazier KS, et al. **Int J Biochem Cell Biol** 1997 Jan;29(1):153-61

Cyclin-D1-gene amplification and expression in breast carcinoma: relation with clinicopathologic characteristics and with retinoblastoma gene product, p53 and p21WAF1 immunohistochemical expression. Barbareschi M, et al. **Int J Cancer** 1997 Apr 22;74(2):171-4

NM23 gene expression in human breast carcinomas: loss of correlation with cell proliferation in the advanced phase of tumor progression. Caligo MA, et al. **Int J Cancer** 1997 Feb 20;74(1):102-11

Expression and tyrosine phosphorylation of EMS1 in human breast cancer cell lines. Campbell DH, et al. **Int J Cancer** 1996 Nov 15;68(4):485-92

Identification of a novel breast-cancer-anti-estrogen-resistance (BCAR2) locus by cell-fusion-mediated gene transfer in human breast-cancer cells. Dorssers LC, et al. **Int J Cancer** 1997 Aug 7; 72(4):700-5

Hypermethylation of calcitonin gene regulatory sequences in human breast cancer as revealed by genomic sequencing. Hakkarainen M, et al. **Int J Cancer** 1996 Dec 20;69(6):471-4

BRCA2 germline mutations in Japanese breast cancer families. Inoue R, et al. **Int J Cancer** 1997 Apr 22; 74(2):199-204

BRCA1 mutations in German breast-cancer families. Jandrig B, et al. **Int J Cancer** 1996 Oct 9;68(2):188-92

Antagonism between estradiol and progestin on Bcl-2 expression in breast-cancer cells. Kandouz M, et al. **Int J Cancer** 1996 Sep 27;68(1):120-5

Expression of drug resistance proteins in breast cancer, in relation to chemotherapy. Linn SC, et al. **Int J Cancer** 1997 May 29;71(5):787-95

Loss of heterozygosity at the TP53 gene: independent occurrence from genetic instability events in node-negative breast cancer. Lizard-Nacol S, et al. **Int J Cancer** 1997 Aug 7;72(4):599-603

Soluble CD44 splice variants in metastasizing human breast cancer. Martin S, et al. **Int J Cancer** 1997 Aug 22; 74(4):443-5

MLN64 exhibits homology with the steroidogenic acute regulatory protein (STAR) and is over-expressed in human breast carcinomas. Moog-Lutz C, et al. **Int J Cancer** 1997 Apr 10;71(2):183-91

Karyotypic abnormalities in fibroadenomas of the breast. Petersson C, et al. **Int J Cancer** 1997 Jan 27;70(3):282-6 (27 ref.)

Family history and the risk of breast cancer: a systematic review and meta-analysis. Pharoah PD, et al. **Int J Cancer** 1997 May 29;71(5):800-9

Genomic deletions in the BRCA1, BRCA2 and TP53 regions associate with low expression of the estrogen receptor in sporadic breast carcinoma. Schmutzler RK, et al. **Int J Cancer** 1997 Jun 20;74(3):322-5

Microsatellite instability in sporadic human breast cancers. Toyama T, et al. **Int J Cancer** 1996 Nov 15;68(4):447-51

Identification of an exon 3 deletion splice variant androgen receptor mRNA in human breast cancer. Zhu X, et al. **Int J Cancer** 1997 Aug 7;72(4):574-80

ACOG committee opinion. Breast--ovarian cancer screening. Number 176, October 1996. Committee on Genetics. The American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1997 Jan;56(1):82-3

Genetic susceptibility testing for breast and ovarian cancer: a progress report. Biesecker BB, et al. **J Am Med Womens Assoc** 1997 Winter;52(1):22-7 (82 ref.)

Novel progesterone target genes identified by an improved differential display technique suggest that progestin-induced growth inhibition of breast cancer cells coincides with enhancement of differentiation. Kester HA, et al. **J Biol Chem** 1997 Jun 27;272(26):16637-43

A c-erbB-2 promoter-specific nuclear matrix protein from human breast tumor tissues mediates NF-kappaB DNA binding activity. Raziuddin A, et al. **J Biol Chem** 1997 Jun 20;272(25):15715-20

Identification, cloning, and characterization of cystatin M, a novel cysteine proteinase inhibitor, down-regulated in breast cancer. Sotiropoulou G, et al. **J Biol Chem** 1997 Jan 10;272(2):903-10

The reliability of recollections of family history: implications for the medical provider. Parent ME, et al.

J Cancer Educ 1997 Summer;12(2):114–20

Modifying effect of reproductive risk factors on the age at onset of breast cancer for German BRCA1 mutation carriers. Chang-Claude J, et al.
J Cancer Res Clin Oncol 1997;123(5):272–9

BRCA1 mutations and phenotype. Grade K, et al.
J Cancer Res Clin Oncol 1997;123(1):69–70

p53 gene mutations and expression of p53 and mdm2 proteins in invasive breast carcinoma. A comparative analysis with clinico-pathological factors. Günther T, et al.
J Cancer Res Clin Oncol 1997;123(7):388–94

Reverse transcriptase/polymerase chain reaction detection of cytokeratin-19 mRNA in bone marrow and blood of breast cancer patients. Krüger W, et al.
J Cancer Res Clin Oncol 1996;122(11):679–86

Genetic susceptibility to cancer from exogenous and endogenous exposures. Feigelson HS, et al.
J Cell Biochem Suppl 1996;25:15–22 (48 ref.)

Use of alternative promoters to express the aromatase cytochrome P450 (CYP19) gene in breast adipose tissues of cancer-free and breast cancer patients. Agarwal VR, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3843–9

Presence of alternatively spliced transcripts of aromatase gene in human breast cancer. Utsumi T, et al.
J Clin Endocrinol Metab 1996 Jun;81(6):2344–9

Detection of monoclonal microsatellite alterations in atypical breast hyperplasia. Rosenberg CL, et al. **J Clin Invest** 1996 Sep 1;98(5):1095–100

Flow cytometric DNA hypertetraploidy is associated with unfavourable prognostic features in breast cancer. Pinto AE, et al. **J Clin Pathol** 1997 Jul;50(7):591–5

Activation of estrogen receptor-mediated gene transcription by IGF-I in human breast cancer cells. Lee AV, et al.
J Endocrinol 1997 Jan;152(1):39–47

Family history evaluation in epidemiologic studies; an evaluation of bias in the conventional methods and a proposal of a new one. Nakamura Y, et al. **J Epidemiol** 1997 Mar;7(1):21–5

Molecular genetic analysis of TGF beta1 in breast cancer. Cardillo MR, et al. **J Exp Clin Cancer Res** 1997 Mar; 16(1):57–63

Immunohistochemical analyses of p53 protein expression in breast cancers in Taiwan: a clinicopathologic study. Chu JS, et al. **J Formos Med Assoc** 1997 Apr;96(4):237–41

Mutation analysis of the BRCA1 gene in 23 families with cases of cancer of the breast, ovary, and multiple other sites. Durocher F, et al. **J Med Genet** 1996 Oct;33(10):814–9

BRCA1 mutations in a selected series of breast/ovarian cancer patients. Garvin AM, et al. **J Med Genet** 1996 Sep; 33(9):721–5

German family study on hereditary breast–ovarian cancer. Hamann U, et al. **J Med Genet** 1996 Aug;33(8):633–5

Attitudes towards cancer predictive testing and transmission of information to the family. Julian-Reynier C, et al.
J Med Genet 1996 Sep;33(9):731–6

The 12 base pair duplication/insertion alteration could be a regulatory mutation. Robledo M, et al. **J Med Genet** 1997 Jul;34(7):592–3

A large multisite cancer family is linked to BRCA2. Tonin P, et al. **J Med Genet** 1995 Dec;32(12):982–4

When your patient asks: "Doctor, I'd like to get the blood test for the breast and ovary cancer gene". Boronow RC.
J Miss State Med Assoc 1996 Sep;37(9):725–31

The breast cancer gene product TSG101: a regulator of ubiquitination? Ponting CP, et al. **J Mol Med** 1997 Jul; 75(7):467–9

Germline p53 mutation at codon 133 in a cancer-prone family. Saeki Y, et al. **J Mol Med** 1997 Jan;75(1):50–6

Probability of carrying a mutation of breast–ovarian cancer gene BRCA1 based on family history. Berry DA, et al.
J Natl Cancer Inst 1997 Feb 5;89(3):227–38

Acceptable strategies for dealing with hereditary breast/ovarian cancer risk [letter] Eisinger F, et al.
J Natl Cancer Inst 1997 May 21;89(10):731

Ashkenazim not alone: other ethnic groups have breast cancer gene mutations, too [news] Keoun B.
J Natl Cancer Inst 1997 Jan 1;89(1):8–9

Researchers expand genetic epidemiology of BRCA genes [news] Kuska B. **J Natl Cancer Inst** 1997 Jun 18; 89(12):844–5

Controlled trial of pretest education approaches to enhance informed decision-making for BRCA1 gene testing. Lerman C, et al. **J Natl Cancer Inst** 1997 Jan 15; 89(2):148–57

Genetic therapy for breast cancer reaches the drawing board. McBride G. **J Natl Cancer Inst** 1996 Dec 4;88(23):1710

Cancer risk high, but lower than expected with breast cancer genes [news] Nelson NJ. **J Natl Cancer Inst** 1997 May 21; 89(10):680–1

Genetic analysis of mammographic breast density in adult women: evidence of a gene effect [see comments] Pankow JS, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):549–56. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):531–3.

Re: the p53 gene in breast cancer: prognostic value of complementary DNA sequencing versus immunohistochemistry [letter] Silvestrini R.
J Natl Cancer Inst 1996 Oct 16;88(20):1499–500

Genetic factors in the pathogenesis of breast cancer: their role and relative importance. Sellers TA. **J Nutr** 1997 May; 127(5 Suppl):929S–932S (34 ref.)

The Human Genome Project and social consequences of widespread genetic testing: what we have to learn from breast cancer. McCloy L. **J Okla State Med Assoc** 1996 Apr;89(4):139–41

Cyclin D1 and retinoblastoma gene expression in human breast carcinoma: correlation with tumour proliferation and oestrogen receptor status. Jares P, et al. **J Pathol** 1997 Jun; 182(2):160–6

Clonality analysis in tumours of women by PCR amplification of X-linked genes. Peng H, et al. **J Pathol** 1997 Feb; 181(2):223–7

The frequency and mechanism of loss of heterozygosity on chromosome 11q in breast cancer. Tomlinson IP, et al.
J Pathol 1996 Sep;180(1):38–43

Estrogenic activity is increased for an antiestrogen by a natural mutation of the estrogen receptor. Levenson AS, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5–6):261–8

Sex hormone binding globulin mRNA in human breast cancer: detection in cell lines and tumor samples. Moore KH, et al. **J Steroid Biochem Mol Biol** 1996 Nov; 59(3–4):297–304

Interaction between estradiol and growth factors in the regulation of specific gene expression in MCF-7 human breast cancer cells. El-Tanani MK, et al.
J Steroid Biochem Mol Biol 1997 Mar;60(5–6):269–76

Multiple splicing variants of the estrogen receptor are present in individual human breast tumors. Zhang QX, et al.
J Steroid Biochem Mol Biol 1996 Nov;59(3–4):251–60

Aromatase gene expression and its exon I usage in human breast tumors. Detection of aromatase messenger RNA by reverse transcription-polymerase chain reaction. Zhou C, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):163–71

Intratumoral heterogeneity in primary breast carcinoma: study of concurrent parameters. Dodd LG, et al.
J Surg Oncol 1997 Apr;64(4):280–7; discussion 287–8

Validation of family history of breast cancer and identification of the BRCA1 and other syndromes using a population-based cancer registry. Garber JE.
J Womens Health 1997 Jun;6(3):349–51

Genetic testing for susceptibility to breast cancer: findings from women's focus groups. Tessaro I, et al.
J Womens Health 1997 Jun;6(3):317–27

Benefits and risks of screening mammography in women with BRCA1 and BRCA2 mutations [letter; comment] Gilson E. **JAMA** 1997 Jul 23–30;278(4):289–90; discussion 290. Comment on: JAMA 1997 Mar 26;277(12):997–1003.

Genetic polymorphisms and breast cancer risk [letter; comment] Kazandjian VA. **JAMA** 1997 Feb 19;277(7):533; discussion 534. Comment on: JAMA 1996 Nov 13;276(18):1494–501.

BRCA1 sequence analysis in women at high risk for susceptibility mutations. Risk factor analysis and implications for genetic testing [see comments] Shattuck-Eidens D, et al. **JAMA** 1997 Oct 15; 278(15):1242–50. Comment in: JAMA 1997 Oct 15;278(15):1284–5.

Benefits and risks of screening mammography in women with BRCA1 and BRCA2 mutations [letter; comment] Vaidya JS, et al. **JAMA** 1997 Jul 23–30;278(4):290. Comment on: JAMA 1997 Mar 26;277(12):997–1003.

Genetic polymorphisms and breast cancer risk [letter; comment] Zahm SH, et al. **JAMA** 1997 Feb 19; 277(7):533–4; discussion 534. Comment on: JAMA 1996 Nov 13;276(18):1494–501.

Is carcinoma breast a different disease in Pakistani population? Ahmed R, et al. **JPMA J Pak Med Assoc** 1997 Apr;47(4):114–6

Mutational analysis of BRCA1 gene in ovarian and breast-ovarian cancer families in Japan. Takano M, et al.
Jpn J Cancer Res 1997 Apr;88(4):407–13

Intrinsic multidrug class 1 and 2 gene expression and localization in rat and human mammary tumors. Zhang F, et al. **Lab Invest** 1996 Sep;75(3):413–26 (133 ref.)

Pathology of familial breast cancer: differences between breast cancers in carriers of BRCA1 or BRCA2 mutations and sporadic cases. Breast Cancer Linkage Consortium [see comments] **Lancet** 1997 May 24;349(9064):1505–10. Comment in: Lancet 1997 May 24;349(9064):1488–9.

"AT risk" for breast cancer. Bebb G, et al. **Lancet** 1997 Jun 21;349(9068):1784–5

Family history of patients with breast cancer after treatment of Hodgkin's disease in childhood. Late Effects Study Group [letter] Bhatia S, et al. **Lancet** 1997 Sep 20; 350(9081):888–9

p53 mutations in BRCA1-associated familial breast cancer [letter] Crook T, et al. **Lancet** 1997 Aug 30;350(9078):638–9

Differences in phenotypic expression of a new BRCA1 mutation in identical twins [letter] Diez O, et al. **Lancet** 1997 Sep 6;350(9079):713

Fictitious breast cancer family history [letter] Evans DG, et al. **Lancet** 1996 Oct 12;348(9033):1034

Intraductal component and BRCA1-associated breast cancer [letter; comment] Jacquemler J, et al. **Lancet** 1996 Oct 19; 348(9034):1098. Comment on: Lancet 1996 Aug 10;348(9024):408.

New BRCA2 mutation in an Ashkenazi Jewish family with breast and ovarian cancer [letter] Robson ME, et al.
Lancet 1997 Jul 12;350(9071):117–8

Ataxia telangiectasia and risk of breast cancer [letter] Swift M. **Lancet** 1997 Sep 6;350(9079):740

Monitoring the efficacy of hybrid selection during positional cloning: the search for BRCA1. Hattier T, et al.
Mamm Genome 1995 Dec;6(12):873–9

Genetics of breast cancer. Greene MH. **Mayo Clin Proc** 1997 Jan;72(1):54–65 (99 ref.)

Laboratory study of breast cancer using conventional and molecular cytogenetics. Mark HF, et al.
Med Health R I 1996 Feb;79(2):50–4 (61 ref.)

Expression of bcl-2 by breast cancer: a possible diagnostic application. Alsabeh R, et al. **Mod Pathol** 1996 Apr; 9(4):439–44

Prognostic value of DNA ploidy using flow cytometry in 1301 breast cancer patients: results of the prospective Multicenter Morphometric Mammary Carcinoma Project. Bergers E, et al. **Mod Pathol** 1997 Aug;10(8):762–8

Immunohistochemical detection and gene amplification of cyclin D1 in mammary infiltrating ductal carcinoma. Frierson HF Jr, et al. **Mod Pathol** 1996 Jul;9(7):725–30 (38 ref.)

Ploidy determination on histologic sections of breast cancer specimens by image analysis using mathematical correction algorithms. Gschwendtner A, et al. **Mod Pathol** 1997 Aug; 10(8):751–61

Quantitation of HER-2/neu and c-myc gene amplification in breast carcinoma using fluorescence in situ hybridization. Persons DL, et al. **Mod Pathol** 1997 Jul;10(7):720–7

DNA ploidy and S-phase fraction by image and flow cytometry in breast cancer fine-needle cytopunctures. Spyratos F, et al. **Mod Pathol** 1997 Jun;10(6):556–63

Identical clonality of both components of mammary carcinosarcoma with differential loss of heterozygosity. Zhuang Z, et al. **Mod Pathol** 1997 Apr;10(4):354–62

Variability in loss of constitutional heterozygosity across loci and among individuals: association with candidate genes in ductal breast carcinoma. Rebbeck TR, et al.
Mol Carcinog 1996 Nov;17(3):117–25

A cytochrome P4502E1 genetic polymorphism and tobacco smoking in breast cancer. Shields PG, et al.
Mol Carcinog 1996 Nov;17(3):144–50

Tamoxifen enhances interferon-regulated gene expression in breast cancer cells. Lindner DJ, et al.
Mol Cell Biochem 1997 Feb;167(1–2):169–77

Constitutive activation of NF-kappaB during progression of breast cancer to hormone-independent growth. Nakshatri H, et al. **Mol Cell Biol** 1997 Jul;17(7):3629–39

A transcriptional enhancer required for the differential expression of the human estrogen receptor in breast cancers. Tang Z, et al. **Mol Cell Biol** 1997 Mar; 17(3):1274–80

MCF-7 and T47D human breast cancer cells contain a functional peroxisomal response. Kilgore MW, et al.
Mol Cell Endocrinol 1997 May 16;129(2):229–35

A frequent polymorphism of the gene mutated in ataxia telangiectasia. Dörk T, et al. **Mol Cell Probes** 1997 Feb; 11(1):71–3

Cooperation between the human estrogen receptor (ER) and MCF-7 cell-specific transcription factors elicits high activity of an estrogen-inducible enhancer from the trout ER gene promoter. Lazennec G, et al. **Mol Endocrinol** 1996 Sep;10(9):1116–26

Identification of mRNAs differentially expressed in quiescence or in late G1 phase of the cell cycle in human breast cancer cells by using the differential display method. Alpan RS, et al. **Mol Med** 1996 Jul;2(4):469–78

Expression of molecular biomarkers in primary breast tumors implanted into a surrogate host: increased levels of cyclins correlate with tumor progression. Wani G, et al.
Mol Med 1997 Apr;3(4):273–83

Should we test women for inherited susceptibility to breast cancer? what do NC primary care physicians think. O'Malley MS, et al. **N C Med J** 1997 May-Jun;58(3):176–80

BRCA1 mutations in women attending clinics that evaluate the risk of breast cancer [see comments] Couch FJ, et al. **N Engl J Med** 1997 May 15;336(20):1409–15. Comment in: N Engl J Med 1997 May 15;336(20):1448–9.

Pitfalls of genetic testing [letter; comment] Foulkes WD.
N Engl J Med 1996 Oct 17;335(16):1235–6; discussion 1236–7. Comment on: N Engl J Med 1996 May 2;334(18):1192–4.

BRCA genes--bookmaking, fortunetelling, and medical care [editorial; comment] Healy B. **N Engl J Med** 1997 May 15;336(20):1448–9. Comment on: N Engl J Med 1997 May 15;336(20):1401–8. Comment on: N Engl J Med 1997 May 15;336(20):1409–15. Comment on: N Engl J Med 1997 May 15;336(20):1416–21. Comment on: N Engl J Med 1997 May 15;336(20):1465–71.

Differential contributions of BRCA1 and BRCA2 to early-onset breast cancer [see comments] Krainer M, et al. **N Engl J Med** 1997 May 15;336(20):1416–21. Comment in: N Engl J Med 1997 May 15;336(20):1448–9.

Pitfalls of genetic testing [letter; comment] Stern HJ, et al.
N Engl J Med 1996 Oct 17;335(16):1235; discussion 1236–7 . Comment on: N Engl J Med 1996 May 2;334(18):1192–4.

Risk of breast cancer in carriers of BRCA gene mutations [letter] Whittemore AS. **N Engl J Med** 1997 Sep 11; 337(11):788–9

Breast cancer susceptibility genes. Bethwaite P, et al.
N Z Med J 1996 Sep 13;109(1029):327–8

Rethinking the development of breast cancer [news] Schehr RS. **Nat Biotechnol** 1997 Jun;15(6):517–8

AT-tributable risks? [news; comment] Bishop DT, et al.
Nat Genet 1997 Mar;15(3):226. Comment on: Nat Genet 1997 Mar;15(3):307–10.

Breast cancer genes--what are the real risks? [news] Easton D. **Nat Genet** 1997 Jul;16(3):210–1

Heterozygous ATM mutations do not contribute to early

onset of breast cancer [see comments] FitzGerald MG, et al. **Nat Genet** 1997 Mar;15(3):307–10. Comment in: Nat Genet 1997 Mar;15(3):226.
Variation of risks of breast and ovarian cancer associated with different germline mutations of the BRCA2 gene. Gayther SA, et al. **Nat Genet** 1997 Jan;15(1):103–5
A polymorphic stop codon in BRCA2 [letter] Mazoyer S, et al. **Nat Genet** 1996 Nov;14(3):253–4
A breast/ovarian cancer patient with germline mutations in both BRCA1 and BRCA2 [letter] Ramus SJ, et al. **Nat Genet** 1997 Jan;15(1):14–5
Absence of rearrangements in the tumour susceptibility gene TSG101 in human breast cancer [letter] Steiner P, et al. **Nat Genet** 1997 Aug;16(4):332–3
Multidrug resistance—a multiplex phenomenon [news; comment] Baldini N. **Nat Med** 1997 Apr;3(4):378–80. Comment on: Nat Med 1997 Apr;3(4):447–50.
Nuclear localization and increased levels of transcription factor YB–1 in primary human breast cancers are associated with intrinsic MDR1 gene expression [see comments] Bargou RC, et al. **Nat Med** 1997 Apr;3(4):447–50. Comment in: Nat Med 1997 Apr;3(4):378–80.
Myriad's rationale for wider testing [news] Birmingham K. **Nat Med** 1997 Jul;3(7):709
Double indemnity: p53, BRCA and cancer. p53 mutation partially rescues developmental arrest in Brca1 and Brca2 null mice, suggesting a role for familial breast cancer genes in DNA damage repair [news] Brugarolas J, et al. **Nat Med** 1997 Jul;3(7):721–2 (24 ref.)
To test, or not to test? [letter] Frank TS. **Nat Med** 1997 Apr; 3(4):366
Expression of cell–cycle regulators p27Kip1 and cyclin E, alone and in combination, correlate with survival in young breast cancer patients [see comments] Porter PL, et al. **Nat Med** 1997 Feb;3(2):222–5. Comment in: Nat Med 1997 Feb;3(2):152–4.
Breast cancer susceptibility tests still valid, companies argue [news] Smith O. **Nat Med** 1997 Jul;3(7):709
Frequency of recurrent BRCA1 and BRCA2 mutations in Ashkenazi Jewish breast cancer families [see comments] Tonin P, et al. **Nat Med** 1996 Nov;2(11):1179–83 (25 ref.) . Comment in: Nat Med 1996 Nov;2(11):1162.
Clinton woos women's votes with cancer genetics funds [news] Wadman M. **Nature** 1996 Oct 31;383(6603):753
p53 gene mutation in relation to p53 protein accumulation in male and female breast cancer. Nayak BK, et al. **Neoplasma** 1996;43(5):305–10
Prognostic factors and variant estrogen receptor RNAs in clinical breast cancer. Auchus RJ, et al. **Nucl Med Biol** 1994 Apr;21(3):449–54 (15 ref.)
Attitudes of obstetrician–gynecologists toward DNA testing for a genetic susceptibility to breast cancer. Rowley PT, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):611–5
Csa–19, a radiation–responsive human gene, identified by an unbiased two–gel cDNA library screening method in human cancer cells. Balcer–Kubiczek EK, et al. **Oncogene** 1997 Jun 26;14(25):3051–7
E–cadherin is inactivated in a majority of invasive human lobular breast cancers by truncation mutations throughout its extracellular domain. Berx G, et al. **Oncogene** 1996 Nov 7;13(9):1919–25
Molecular epidemiology of breast cancers in northern and southern Japan: the frequency, clustering, and patterns of p53 gene mutations differ among these two low–risk populations. Blaszyk H, et al. **Oncogene** 1996 Nov 21; 13(10):2159–66
A novel human Wnt gene, WNT10B, maps to 12q13 and is expressed in human breast carcinomas. Bui TD, et al. **Oncogene** 1997 Mar 13;14(10):1249–53
BRCA1 germline mutational spectrum in Italian families from Tuscany: a high frequency of novel mutations. Caligo MA, et al. **Oncogene** 1996 Oct 3;13(7):1483–8
DNA sequence analysis of exons 2 through 11 and immunohistochemical staining are required to detect all known p53 alterations in human malignancies. Casey G, et al. **Oncogene** 1996 Nov 7;13(9):1971–81
ESX: a structurally unique Ets overexpressed early during human breast tumorigenesis. Chang CH, et al. **Oncogene** 1997 Apr 3;14(13):1617–22
Dominance of wild–type p53–mediated transcriptional activation in breast epithelial cells. Davis P, et al. **Oncogene** 1996 Sep 19;13(6):1315–22
Screening for mutations in exon 11 of the BRCA1 gene in 70 Italian breast and ovarian cancer patients by protein truncation test. De Benedetti VM, et al. **Oncogene** 1996 Sep 19;13(6):1353–7
Comparative genomic hybridisation of ductal carcinoma in situ of the breast: identification of regions of DNA amplification and deletion in common with invasive breast carcinoma. James LA, et al. **Oncogene** 1997 Mar 6; 14(9):1059–65
A region of interstitial 17q25 allelic loss in ovarian tumors coincides with a defined region of loss in breast tumors. Kalikin LM, et al. **Oncogene** 1997 Apr 24;14(16):1991–4
Loss of heterozygosity in human breast carcinomas in the ataxia telangiectasia, Cowden disease and BRCA1 gene regions. Kerangueven F, et al. **Oncogene** 1997 Jan 23; 14(3):339–47
Allelic deletions at chromosome 11q22–q23.1 and 11q25–qterm are frequent in sporadic breast but not colorectal cancers. Koreth J, et al. **Oncogene** 1997 Jan 30; 14(4):431–7
Detailed deletion mapping with a refined physical map of 7q31 localizes a putative tumor suppressor gene for breast cancer in the region of MET. Lin JC, et al. **Oncogene** 1996 Nov 7;13(9):2001–8
The effect of HER–2/neu overexpression on chemotherapeutic drug sensitivity in human breast and ovarian cancer cells. Pegram MD, et al. **Oncogene** 1997 Jul 31;15(5):537–47
Strong indication for a breast cancer susceptibility gene on chromosome 8p12–p22: linkage analysis in German breast cancer families. Seitz S, et al. **Oncogene** 1997 Feb 13; 14(6):741–3
A putative serine/threonine kinase encoding gene BTAK on chromosome 20q13 is amplified and overexpressed in human breast cancer cell lines. Sen S, et al. **Oncogene** 1997 May 8;14(18):2195–200
BRCA1 and BRCA2 mRNA levels are coordinately elevated in human breast cancer cells in response to estrogen. Spillman MA, et al. **Oncogene** 1996 Oct 17;13(8):1639–45
Chemosensitization of HER–2/neu–overexpressing human breast cancer cells to paclitaxel (Taxol) by adenovirus type 5 E1A. Ueno NT, et al. **Oncogene** 1997 Aug 18;15(8):953–60
Genetic susceptibility for breast cancer: testing and primary prevention options. Baron RH, et al. **Oncol Nurs Forum** 1997 Apr;24(3):461–8 (55 ref.)
Comparative expression of the LINE–1 p40 protein in human breast carcinomas and normal breast tissues. Asch HL, et al. **Oncol Res** 1996;8(6):239–47
Newly cloned gene studied for possible role in breast cancer [news] **Oncology (Huntingt)** 1996 Nov;10(11):1658, 1661
Genetic susceptibility to breast and ovarian cancer. Skolnick MH, et al. **Pathol Biol (Paris)** 1997 Mar;45(3):245–9 (27 ref.)
Genes responsible for familial breast cancer. Cornelisse CJ, et al. **Pathol Res Pract** 1996 Jul;192(7):684–93 (77 ref.)
Genetic mechanisms of estrogen–independence in breast cancer. Dorssers LC, et al. **Pathol Res Pract** 1996 Jul; 192(7):743–51 (117 ref.)
Expression of p53 and bcl–2 in correlation to clinicopathological parameters, hormone receptor status and DNA ploidy in breast cancers. Friedrich K, et al. **Pathol Res Pract** 1995 Nov;191(11):1114–21
Poly(ADP–ribose) polymerase in human breast cancer: a case–control analysis. Hu JJ, et al. **Pharmacogenetics** 1997 Aug;7(4):309–16
A family history of breast Ca. Higson N, et al. **Practitioner** 1997 Feb;241(1571):59–64 (0 ref.)
Identification of ERF–1 as a member of the AP2 transcription factor family. McPherson LA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4342–7
Brca2 is coordinately regulated with Brca1 during proliferation and differentiation in mammary epithelial cells. Rajan JV, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13078–83
Altered expression of the WT1 wilms tumor suppressor gene in human breast cancer. Silberstein GB, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8132–7
The genetics of sporadic breast cancer. Brenner AJ, et al. **Prog Clin Biol Res** 1997;396:63–82 (82 ref.)
Recent advances in the molecular genetics of hereditary breast and ovarian cancer. Lancaster JM, et al. **Prog Clin Biol Res** 1997;396:31–51 (136 ref.)
Molecular genetics of breast cancer. Radice P, et al. **Q J Nucl Med** 1997 Sep;41(3):189–99 (118 ref.)
Familial breast cancer risk assessment. Johnson VP, et al. **S D J Med** 1996 Jul;49(7):217–21
AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. Anzick SL, et al. **Science** 1997 Aug 15; 277(5328):965–8
Loss of heterozygosity in normal tissue adjacent to breast carcinomas. Deng G, et al. **Science** 1996 Dec 20; 274(5295):2057–9
Coming to grips with genes and risk [news] Kahn P. **Science** 1996 Oct 25;274(5287):496–8
Possible function found for breast cancer genes [news] Marx G. **Science** 1997 Apr 25;276(5312):531–2
Predisposition testing for breast and ovarian cancer susceptibility. Calzone KA. **Semin Oncol Nurs** 1997 May; 13(2):82–90 (61 ref.)
HER–2/neu signal transduction in human breast and ovarian cancer. Reese DM, et al. **Stem Cells** 1997;15(1):1–8 (85 ref.)
Hepatocyte growth factor/scatter factor expression and c–met in primary breast cancer. Nagy J, et al. **Surg Oncol** 1996 Feb;5(1):15–21
Overexpression of bax enhances the radiation sensitivity in human breast cancer cells. Sakakura C, et al. **Surg Today** 1997;27(1):90–3
Overexpression of bax sensitizes breast cancer MCF–7 cells to cisplatin and etoposide. Sakakura C, et al. **Surg Today** 1997;27(7):676–9
Decreased expression of the DCC gene in human breast carcinoma. Wakita K, et al. **Surg Today** 1996;26(11):900–3
The molecular epidemiology of p53 gene mutations in human breast cancer. Hartmann A, et al. **Trends Genet** 1997 Jan; 13(1):27–33 (79 ref.)
The cancers of man and woman. Kamb A, et al. **Trends Genet** 1996 May;12(5):198
Nuclear grade and DNA ploidy in stage IV breast cancer with only visceral metastases at initial diagnosis. De Lena M, et al. **Tumori** 1996 Jul–Aug;82(4):386–9
Microsatellite instability and loss of heterozygosity in primary breast tumours. Sourvinos G, et al. **Tumour Biol** 1997; 18(3):157–66
Hereditary breast cancer in Northern Ireland. McKinley AG, et al. **Ulster Med J** 1996 Nov;65(2):113–7
Expression of the PIP/GCDFP–15 gene and survival in breast cancer. Hähnel R, et al. **Virchows Arch** 1996 Dec; 429(6):365–9
Type 1 HERV–K genome is spliced into subgenomic transcripts in the human breast tumor cell line T47D. Etkind PR, et al. **Virology** 1997 Aug 4;234(2):304–8
The Human Genome Project and breast cancer. Olopade OI. **Womens Health Issues** 1997 Jul–Aug;7(4):209–14 (35 ref.)
[Candidate genes for the familial forms of breast and ovarian carcinomas (BRCA)] Markov A. **Mol Med (Sofia)** 1996; 1(1):17–20 (19 ref.) **(Bul)**
[The expression of bcl–2, P53 and c–erbB–2 onco–proteins in breast cancer and their clinicopathological significance] Gao L, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):165–8 (Eng. Abstr.) **(Chi)**
[A study on characterization and tumorigenesis of an interleukin 2 gene transduced human breast carcinoma cell line] Su N, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):228–31 (Eng. Abstr.) **(Chi)**
[IL–6 gene expression in human tumor cell lines] Zhong H, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):22–4 (Eng. Abstr.) **(Chi)**
[Women with hereditary risk of breast cancer: consensus of surgical representatives of study groups for hereditary tumors regarding intensive monitoring, diagnosis and preventive resection] van Geel AN, et al. **Ned Tijdschr Geneeskd** 1997 May 3;141(18):874–7 (23 ref.) (Eng. Abstr.) **(Dut)**
[Somatic genetics of breast cancer] Bièche I, et al. **Bull Cancer** 1997 Jan;84(1):83–96 (85 ref.) (Eng. Abstr.) **(Fre)**
[A study of the expression of MDR1 gene in solid tumors. Initial results of a multicenter evaluation] Chevillard S, et al. **Bull Cancer** 1996 Aug;83(8):626–33 (Eng. Abstr.) **(Fre)**
[Glutathione S–transferase mu 1 (GSTM1): susceptibility gene of breast cancer] Fontana X, et al. **Bull Cancer** 1997 Jan;84(1):35–40 (56 ref.) (Eng. Abstr.) **(Fre)**
[Potential genetic markers for prognosis and therapeutic response] Lidereau R. **Bull Cancer** 1996 Dec;83(12):1040 **(Fre)**
[Germ–line mutation of BRCA1 in patients with breast and/or ovarian cancer in high risk families in Northern France] Peyrat JP, et al. **Bull Cancer** 1997 Jan;84(1):41–6 (34 ref.) (Eng. Abstr.) **(Fre)**
[Attitudes towards screening and prevention of breast and ovarian cancers with hereditary predisposition. Survey by female gynecologists in the north of France] Vennin P, et al. **Bull Cancer** 1996 Sep;83(9):697–702 (Eng. Abstr.) **(Fre)**
[Molecular biology techniques: research, transfer or routine?] Vidaud M. **Bull Cancer** 1996 Dec;83(12):1043–5 **(Fre)**
[Predictive oncology and familial breast cancer] Pescia G, et al. **Rev Med Suisse Romande** 1997 Aug;117(8):603–6 (10 ref.) **(Fre)**
[p53 status in breast carcinomas and the effect of adjuvant radio– and chemotherapies] Richter C, et al. **Strahlenther Onkol** 1997 Jan;173(1):50–1 **(Ger)**
[Molecular genetics of hereditary breast carcinoma] Hampl M, et al. **Zentralbl Chir** 1997;122(2):67–73 (76 ref.) (Eng. Abstr.) **(Ger)**
[Inherited breast cancer] Kaduri L, et al. **Harefuah** 1996 Nov 15;131(10):418–21 (37 ref.) **(Heb)**
[Prognostic value of the immunohistochemical overexpression of p53 in breast carcinoma: facts or artifacts?] **Pathologica** 1996 Feb;88(1):58–63 (35 ref.) **(Ita)**
[Cytogenetic abnormalities, genetic alterations, and applications for genetic diagnosis in breast cancer] Tsukamoto K, et al. **Nippon Rinsho** 1996 Dec; 54(12):3389–97 (22 ref.) (Eng. Abstr.) **(Jpn)**
[Proliferative activity and ploidy of DNA as possible prognostic factors in breast cancer] Guliak NS, et al. **Klin Lab Diagn** 1996 May–Jun;(3):37–8 **(Rus)**
[Aneuploidy and proliferative activity in breast cancer (flow–cytometric investigation)] Bychkova NV, et al. **Vopr Onkol** 1997;43(2):171–5 (Eng. Abstr.) **(Rus)**
[Correlation between int–2 oncogene amplification and increased tumor size in breast cancer] Chernitsa OI, et al. **Vopr Onkol** 1996;42(4):27–9 (Eng. Abstr.) **(Rus)**
[Genetic diagnosis and therapy of hereditary breast carcinoma] Hrgović Z, et al. **Med Arh** 1995;49(1–2):13–7 (Eng. Abstr.) **(Scr)**
[Susceptibility genes of breast cancer] Salamanca–Gómez F. **Gac Med Mex** 1995 Jul–Aug;131(4):479–80 **(Spa)**
[Characterization of the BRCA1 gene and its significance in hereditary breast cancer] Díez Gilbert O, et al. **Med Clin (Barc)** 1996 Nov 9;107(16):623–7 (30 ref.) **(Spa)**
[Hereditary predisposition to breast cancer: assessment of genetic risk and recommendations for the clinical follow–up of high–risk cases] Hernández–Bronchud M. **Med Clin (Barc)** 1996 Sep 28;107(10):383–7 (13 ref.) **(Spa)**

HISTORY

Maurice M. Black, M.D. in memoriam. Zachrau RE. **Cancer** 1997 Jan 15;79(2):203–5
MCF–7: the first hormone–responsive breast cancer cell line.

Levenson AS, et al. **Cancer Res** 1997 Aug 1;57(15):3071–8
Personal contributions to progress in breast cancer research and treatment. Fisher B. **Semin Oncol** 1996 Aug; 23(4):414–27
The regulation of mammography. Bassett LW. **Semin Ultrasound CT MR** 1996 Oct;17(5):415–23
[Development of surgery for breast carcinoma by Joseph Rotter] Winkler R. **Zentralbl Chir** 1997;122(2):128–9 (Eng. Abstr.) **(Ger)**
[Let us honor our forebears! (history of mastectomy) (letter)] Tóth C. **Orv Hetil** 1996 Aug 18;137(33):1838 **(Hun)**

IMMUNOLOGY

Characteristics of antigens from an HCG alpha secreting cell line (ElCo) derived from human breast carcinoma in a Native American patient. Pattillo RA, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S246–54
Epitope-mapped monoclonal antibodies as tools for functional and morphological analyses of the human urokinase receptor in tumor tissue. Luther T, et al. **Am J Pathol** 1997 Apr;150(4):1231–44
Scatter factor protein levels in human breast cancers: clinicopathological and biological correlations. Yao Y, et al. **Am J Pathol** 1996 Nov;149(5):1707–17
Expansion of CD3+CD56+ lymphocytes correlates with induction of cytotoxicity by interleukin-2 gene transfer in human breast tumor cultures. Euhus DM, et al. **Ann Surg Oncol** 1997 Jul–Aug;4(5):432–9
Effect of neoadjuvant chemotherapy on Ki67 labelling index, c-erbB-2 expression and steroid hormone receptor status in human breast tumours. Bottini A, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3105–10
CA 125 as an indicator of pleural metastases in breast cancer patients. Krämer S, et al. **Anticancer Res** 1996 Sep–Oct; 16(5B):3165–8
HLA antigen as predictive index for the outcome of breast cancer patients with adjuvant immunochemotherapy with PSK. Yokoe T, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2815–8
CD44 expression in human breast cancer cell lines is related to oestrogen receptor (ER) status and confluency in vitro. Bolodeoku J, et al. **Biochem Soc Trans** 1997 May;25(2):356S
IL-1 gene expression in human mammary tumour xenografts after treatment with hexadecylphosphocholine. Safa O, et al. **Biochem Soc Trans** 1997 May;25(2):265S
Cell-mediated immunity in breast cancer patients. Nicolini A, et al. **Biomed Pharmacother** 1996;50(8):337–43
Restoration of T and NK cell function in GM-CSF mobilized stem cell products from breast cancer patients by monocyte depletion. Ageitos AG, et al. **Bone Marrow Transplant** 1997 Jul;20(2):117–23
Steroid hormone regulation of prostate-specific antigen gene expression in breast cancer. Zarghami N, et al. **Br J Cancer** 1997;75(4):579–88
CD44 isoforms with exon v6 and metastasis of primary N0M0 breast carcinomas. Guriec N, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):261–8
Immunosuppression by breast cancer associated p43–effect of immunomodulators. Rosen HR, et al. **Breast Cancer Res Treat** 1996;41(2):171–6
Prognostic significance of in situ carcinoma associated with invasive breast carcinoma: a natural experiment in cancer immunology? [letter] Naresh KN, et al. **Cancer** 1997 May 1;79(9):1846–8
Autoantibody to p185erbB2/neu oncoprotein by vaccination with xenogenic DNA. Concetti A, et al. **Cancer Immunol Immunother** 1996 Dec;43(5):307–15
A survivor of breast cancer with immunity to MUC-1 mucin, and lactational mastitis. Jerome KR, et al. **Cancer Immunol Immunother** 1997 Jan;43(6):355–60
Cellular characteristics of peripheral blood lymphocytes and tumour-infiltrating lymphocytes in patients with gynaecological tumours. Schöndorf T, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):88–96
Breast cancer immunology. Wei WZ, et al. **Cancer Treat Res** 1996;83:395–410 (87 ref.)
Simultaneous production of T helper-1-like cytokines and cytolytic activity by tumor-specific T cells in ovarian and breast cancer. Goedegebuure PS, et al. **Cell Immunol** 1997 Feb 1;175(2):150–6
Prostate-specific antigen immunoreactivity in women with breast cancer [letter] Dibbelt L, et al. **Clin Chem** 1996 Oct; 42(10):1721–2
Prostate-specific antigen expression in a case of intracystic carcinoma of the breast: characterization of immunoreactive protein and literature surveys. Mannello F, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1448–54 (72 ref.)
Correlation between p53 immunostaining patterns and gene sequence mutations in breast carcinoma. Visscher DW, et al. **Diagn Mol Pathol** 1996 Sep;5(3):187–93
Influence of Ukrain on patients with surgically treated breast cancer. Part III. The immune system. Fomin KA, et al. **Drugs Exp Clin Res** 1996;22(3–5):143–5
Comments on Prebiopsy neo-adjuvant endocrine therapy for breast cancer to prevent post-surgery trauma-induced growth factor and immune-suppression mediated tumour progression, Oliver et al., Eur J Cancer, 32A, No. 3, pp. 396–397, 1996 [letter; comment] Mokbel K. **Eur J Cancer** 1996 Dec;32A(13):2364–6. Comment on: Eur J Cancer 1996 Mar;32A(3):396–7.
Humoral immune response to polymorphic epithelial mucin (MUC-1) in patients with benign and malignant breast tumours. von Mensdorff-Pouilly S, et al. **Eur J Cancer** 1996 Jul;32A(8):1325–31
Reduced IL-2 level concentration in patients with breast cancer as a possible risk factor for relapse. Arduino S, et al. **Eur J Gynaecol Oncol** 1996;17(6):535–7
Correlation between tumour and serum beta 2m expression in patients with breast cancer. Klein T, et al. **Eur J Immunogenet** 1996 Dec;23(6):417–23
In vitro mimicry of CaMBr1 tumor-associated antigen by synthetic oligosaccharides. Adobati E, et al. **Glycobiology** 1997 Mar;7(2):173–8
Mucin-like carcinoma-associated antigen serum levels in patients with adenocarcinomas originating from ovary, breast and colon. Bon GG, et al. **Gynecol Obstet Invest** 1996;42(1):58–62
Limited value of the NKI/C3-antibody for the differential diagnosis of Paget's disease of the nipple and intra-epidermal malignant melanoma. Biesterfeld S, et al. **Histopathology** 1996 Mar;28(3):269–70
High frequency of altered HLA class I phenotypes in invasive breast carcinomas. Cabrera T, et al. **Hum Immunol** 1996 Oct;50(2):127–34
Characterization of the ETSA-21 antigen, a glycosylphosphatidyl-inositol anchor glycoprotein identified in breast cancer cells using monoclonal antibody B21. Annibali NV, et al. **Hybridoma** 1997 Apr;16(2):139–45
Cloning and expression of cDNAs encoding the variable domains of the antibreast carcinoma antibody Mc5. Christian RB, et al. **Hybridoma** 1996 Apr;15(2):155–8
Immunosuppressive activity of sera from patients with colorectal and gynecological carcinomas as evaluated by impaired IFN-gamma, IL-1 alpha and TNF-alpha production of human peripheral mononuclear cells. Muster-Bloy R, et al. **Immunobiology** 1996;196(4):356–62
Serum levels of interleukin-10 in patients affected by breast cancer. Merendino RA, et al. **Immunol Lett** 1996 Oct; 53(1):59–60
Humanization of an antibody recognizing a breast cancer specific epitope by CDR-grafting. Fiorentini S, et al. **Immunotechnology** 1997 Mar;3(1):45–59
Structural and functional analysis of beta2 microglobulin abnormalities in human lung and breast cancer. Chen HL, et al. **Int J Cancer** 1996 Sep 17;67(6):756–63
The correlation of CA15.3 and TPS with tumor course in patients with metastatic breast cancer. Pronk LC, et al. **J Cancer Res Clin Oncol** 1997;123(2):128–32
Successful treatment of molluscum contagiosum in the immunosuppressed adult with topical injection of streptococcal preparation OK-432. Inui S, et al. **J Dermatol** 1996 Sep;23(9):628–30 (19 ref.)
Targeting of natural killer cells to mammary carcinoma via naturally occurring tumor cell-bound iC3b and beta-glucan-primed CR3 (CD11b/CD18). Vetvicka V, et al. **J Immunol** 1997 Jul 15;159(2):599–605
17-beta-estradiol increases expression of 52-kDa and 60-kDa SS-A/Ro autoantigens in human keratinocytes and breast cancer cell line MCF-7. Wang D, et al. **J Invest Dermatol** 1996 Oct;107(4):610–4
CD40-CD40L interactions provide "third-party" costimulation for T cell response against B7-1-transfected human breast tumor cells. Pericle F, et al. **J Leukoc Biol** 1997 Feb;61(2):201–8
Elevated levels of prostate-specific antigen in serum of women with fibroadenomas and breast cysts [letter] Borchert GH, et al. **J Natl Cancer Inst** 1997 Apr 16; 89(8):587–8
Study examines stress-immune system links in women with breast cancer [news] Voelker R. **JAMA** 1997 Aug 20; 278(7):534
Prostate-specific membrane antigen in breast carcinoma [letter] Uría JA, et al. **Lancet** 1997 May 31;349(9065):1601
Evidence for immune facilitation of breast cancer growth and for the immune promotion of oncogenesis in breast cancer. Stewart TH. **Medicina (B Aires)** 1996;56 Suppl 1:13–24 (95 ref.)
Immunohistochemical detection and gene amplification of cyclin D1 in mammary infiltrating ductal carcinoma. Frierson HF Jr, et al. **Mod Pathol** 1996 Jul;9(7):725–30 (38 ref.)
Expression of transcripts of interleukin-6 and related cytokines by human breast tumors, breast cancer cells, and adipose stromal cells [published erratum appears in Mol Cell Endocrinol 1996 Jul 1;120(2):215] Crichton MB, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1-2):215–20
Breast cancer-associated antigen, DF3/MUC1, induces apoptosis of activated human T cells. Gimmi CD, et al. **Nat Med** 1996 Dec;2(12):1367–70
Setback to immunotherapy strategies of breast cancer. Naresh KN. **Natl Med J India** 1997 May-Jun;10(3):128–9
Immunosuppressive activity of lymphocyte mitogenesis by breast cancer-associated p43. Reinerová M, et al. **Neoplasma** 1996;43(6):363–6
Placental isoferritin-associated p43 in pregnancy and breast cancer. Minireview. Rosen HR. **Neoplasma** 1996; 43(6):357–62 (21 ref.)
Comparison of two monoclonal antibodies for the detection of estrogen receptors in primary breast carcinomas. Nedergaard L, et al. **Pathol Res Pract** 1996 Oct; 192(10):983–8
Prostate specific antigen in women with breast cancer: is it amenable to routine immunohistochemical detection? [letter] Kenwright DN, et al. **Pathology** 1997 Feb;29(1):106
Immunohistochemical assessment of proliferation rate of breast carcinoma cells using Ki-67, MIB-1 and anti-PCNA monoclonal antibodies. Markiewski M, et al. **Pol J Pathol** 1996;47(4):189–94
Expression of endothelin-1 immunoreactivity in breast cancer. Kojima K, et al. **Surg Oncol** 1995;4(6):309–15
Characterization of a new breast cancer-associated antigen and its relationship to MUC1 and TAG-72 antigens. Harada Y, et al. **Tohoku J Exp Med** 1996 Nov; 180(3):273–88
New SCM (structuredness of the cytoplasmatic matrix)-based approach in breast cancer detection. Birindelli S, et al. **Tumori** 1996 Nov-Dec;82(6):550–3
Mucinous markers in breast cancer. Seregni E, et al. **Tumori** 1997 Mar-Apr;83(2):550–1 (09 ref.)
Immunohistochemical localization of Bcl-2 and Bax proteins in in situ and invasive duct breast carcinomas. Kapucuoglu N, et al. **Virchows Arch** 1997 Jan;430(1):17–22
[Psychoneuroimmunology and breast cancer] van der Pompe G. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2614–7 (33 ref.) **(Dut)**
[Immune reactivity and anergy in breast cancer] Scholl S, et al. **Bull Cancer** 1996 Jul;83(7):535–41 **(Fre)**
[Vaccination against the tumoral mammary epithelial cells expressing MUC1 mucin] Scholl SM, et al. **Bull Cancer** 1997 Jan;84(1):61–4 (Eng. Abstr.) **(Fre)**
[P53 antibodies: a new method for the analysis of alterations of the p53 gene: application to breast cancer (editorial)] Soussi T, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):232–4 (13 ref.) (Eng. Abstr.) **(Fre)**
[Prognostic significance of p53 autoantibodies in serum of patients with breast carcinoma] Huober J, et al. **Zentralbl Gynakol** 1996;118(10):560–4 (Eng. Abstr.) **(Ger)**
[Current questions about estrogen receptor determination and hormone dependence (does estrogen receptor positivity equal estrogen dependence?)] Kahán Z. **Orv Hetil** 1996 Oct 20;137(42):2305–8 (35 ref.) (Eng. Abstr.) **(Hun)**
[Immunologic parameters in breast cancer patients (depending on age, reproductive function, clinical and pathologic pattern and growth rate of the tumor)] Baldueva IA, et al. **Vopr Onkol** 1996;42(5):31–5 (Eng. Abstr.) **(Rus)**
[Identification of a tumor antigen associated to the estrogen receptor in axillary lymph nodes of breast cancer patients] Laguens G, et al. **Medicina (B Aires)** 1996;56(3):269–72 (Eng. Abstr.) **(Spa)**

METABOLISM

Intermediate filament expression of ductal carcinoma cells in fine needle aspirates of the breast. Heatley M, et al. **Acta Cytol** 1997 May-Jun;41(3):717–20
Expression of pS2 protein and estrogen and progesterone receptor status in breast cancer. Ioakim-Liossi A, et al. **Acta Cytol** 1997 May-Jun;41(3):713–6
Does the lectin Helix pomatia agglutinin bind to hyaluronic acid in breast and colon cancer? Schumacher U, et al. **Acta Histochem** 1996 Nov;98(4):435–40
Insulin-like growth factors in breast cancer. Helle SI, et al. **Acta Oncol** 1996;35 Suppl 5:19–22 (29 ref.)
Changes in radiation sensitivity and steroid receptor content induced by hormonal agents and ionizing radiation in breast cancer cells in vitro. Paulsen GH, et al. **Acta Oncol** 1996; 35(8):1011–9
TIMP-2 mediates cell surface binding of MMP-2. Corcoran ML, et al. **Adv Exp Med Biol** 1996;389:295–304
Vascularization, blood flow, oxygenation, tissue pH, and bioenergetic status of human breast cancer. Vaupel P. **Adv Exp Med Biol** 1997;411:243–54 (40 ref.)
Measurement of retinoids and carotenoids in breast adipose tissue and a comparison of concentrations in breast cancer cases and control subjects. Zhang S, et al. **Am J Clin Nutr** 1997 Sep;66(3):626–32
p21(Waf1/Cip1) and p53 protein expression in breast cancer. Wakasugi E, et al. **Am J Clin Pathol** 1997 Jun;107(6):684–91
p53 protein overexpression in relation to risk factors for breast cancer. van der Kooy K, et al. **Am J Epidemiol** 1996 Nov 15;144(10):924–33
Experimental co-expression of vimentin and keratin intermediate filaments in human breast cancer cells results in phenotypic interconversion and increased invasive behavior. Hendrix MJ, et al. **Am J Pathol** 1997 Feb; 150(2):483–95
Expression of estrogen receptor variant messenger RNAs and determination of estrogen receptor status in human breast cancer. Huang A, et al. **Am J Pathol** 1997 May; 150(5):1827–33
Vascular expression of E-selectin is increased in estrogen-receptor-negative breast cancer: a role for tumor-cell-secreted interleukin-1 alpha. Nguyen M, et al. **Am J Pathol** 1997 Apr;150(4):1307–14
The cell-cell adhesion receptor Mel-CAM acts as a tumor suppressor in breast carcinoma. Shih LM, et al. **Am J Pathol** 1997 Sep;151(3):745–51
Cyclin D1 expression in invasive breast cancer. Correlations and prognostic value. van Diest PJ, et al. **Am J Pathol** 1997 Feb;150(2):705–11
Analysis of anomalous CD44 gene expression in human breast, bladder, and colon cancer and correlation of observed mRNA and protein isoforms. Woodman AC, et al. **Am J Pathol** 1996 Nov;149(5):1519–30
Nuclear image analysis of p53-positive and -negative cells

in breast carcinoma. Friedrich K, et al. **Anal Quant Cytol Histol** 1997 Aug;19(4):285–93

Radioimmunoassay for serum apolipoprotein D, an atypical apolipoprotein: validation and clinical application. Osundeko O, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):537–42

Pharmacokinetics, metabolism and tumour disposition of 8–chloroadenosine 3',5'–monophosphate in breast cancer patients and xenograft bearing mice. Cummings J, et al. **Ann Oncol** 1996 Mar;7(3):291–6

No significant correlation between oncogene protein expression and nodal status [letter; comment] Noguchi M. **Ann Surg** 1996 Nov;224(5):686–8. Comment on: Ann Surg 1995 Jun;221(6):706–18; discussion 718–20.

Phenylacetic acid halides inhibit estrogen receptor (ER)–positive MCF–7 cells, but not ER–negative human breast cancer cells or normal breast epithelial cells. Johnson DE, et al. **Anticancer Drugs** 1996 May;7(3):288–92

Immunocytochemical detection of prostate specific antigen expression in human breast carcinoma cells. Bodey B, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2577–81

Effects of steroid–free fetal serum and steroid supplementation on MUC1 gene expression in human breast cancer cell line MCF7. Botti C, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):205–8

Differential interactions of Pgp inhibitor thaliblastine with adriamycin, etoposide, taxol and anthrapyrazole CI941 in sensitive and multidrug–resistant human MCF–7 breast cancer cells. Chen G, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3499–505

Tamoxifen induces deregulation of [Ca2+] in human breast cancer cells. Jain PT, et al. **Anticancer Res** 1997 Mar–Apr; 17(2A):1167–74

Nm23 expression in breast ductal carcinomas: a ten year follow–up study in a uniform group of node–negative breast cancer patients. Kapranos N, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3987–90

Reciprocal expression of Bcl–2 and p53 in breast ductal carcinoma. Lee WY, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):3007–12

Differential gene expression in human mammary carcinoma cells: identification of a new member of a receptor family. Schiemann S, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):13–20

Taxol inhibits opioid binding on T47D human breast cancer cells. Bakogeorgou E, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):201–4

Expression of the receptor protein tyrosine kinase myk–1/htk in normal and malignant mammary epithelium. Berclaz G, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):869–75

The expression of the molecular chaperone calnexin is decreased in cancer cells grown as colonies compared to monolayer. Yeates LC, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):66–70

Epidermal growth factor–regulated signal transduction in hormone dependent and independent breast cancer. Akhtar N, et al. **Biochem Soc Trans** 1996 Aug;24(3):373S

Evidence that intracellular phosphatidate may regulate breast cancer cell invasion and metastasis. de Takats PG, et al. **Biochem Soc Trans** 1996 Aug;24(3):374S

Association between insulin–like growth factor receptors & cell density in breast cancer cells. Larsen C, et al. **Biochem Soc Trans** 1996 Aug;24(3):363S

Steroid–independent activation of steroid receptors in mammalian and yeast cells and in breast cancer. Picard D, et al. **Biochem Soc Trans** 1997 May;25(2):597–602 (50 ref.)

Heparan sulphate in breast cancer cells. Rahmoune H, et al. **Biochem Soc Trans** 1996 Aug;24(3):355S

Sterically stabilized anti–HER2 immunoliposomes: design and targeting to human breast cancer cells in vitro. Kirpotin D, et al. **Biochemistry** 1997 Jan 7;36(1):66–75

A case–control study on selenium, zinc, and copper in plasma and hair of subjects affected by breast and lung cancer. Piccinini L, et al. **Biol Trace Elem Res** 1996 Jan;51(1):23–30

Modulation of transforming growth factor beta expression and induction of apoptosis by tamoxifen in ER positive and ER negative breast cancer cells [letter; comment] Benson JR, et al. **Br J Cancer** 1996 Sep;74(6):993–4. Comment on: Br J Cancer 1995 Dec;72(6):1441–6.

Changes in expression of transforming growth factor beta mRNA isoforms in patients undergoing tamoxifen therapy [letter; comment] Benson JR, et al. **Br J Cancer** 1997; 75(5):776–8. Comment on: Br J Cancer 1996 Aug;74(3):474–8.

Co–ordinate loss of protein kinase C and multidrug resistance gene expression in revertant MCF–7/Adr breast carcinoma cells. Budworth J, et al. **Br J Cancer** 1997;75(9):1330–5

Expression of high–affinity 67–kDa laminin receptors in primary breast cancers and metachronous metastatic lesions or contralateral cancers. Daidone MG, et al. **Br J Cancer** 1997;76(1):52–3

In vivo and in vitro biotransformation of the lithium salt of gamma–linolenic acid by three human carcinomas. de Antueno R, et al. **Br J Cancer** 1997;75(12):1812–8

Presence of exon 5–deleted oestrogen receptor in human breast cancer: functional analysis and clinical significance. Desai AJ, et al. **Br J Cancer** 1997;75(8):1173–84

Analysis of polypeptide expression in benign and malignant human breast lesions: down–regulation of cytokeratins. Franzén B, et al. **Br J Cancer** 1996 Nov;74(10):1632–8

Laminin and collagen IV subunit distribution in normal and neoplastic tissues of colorectum and breast. Hewitt RE, et al. **Br J Cancer** 1997;75(2):221–9

Angiotensin II type 1 receptor expression in human breast tissues. Inwang ER, et al. **Br J Cancer** 1997;75(9):1279–83

Induction of the oxidative catabolism of retinoid acid in MCF–7 cells. Krekels MD, et al. **Br J Cancer** 1997; 75(8):1098–104

Predictive value of c–erbB–2, p53, cathepsin–D and histology of the primary tumour in metastatic breast cancer. Niskanen E, et al. **Br J Cancer** 1997;76(7):917–22

Laminin activates the p185HER2 oncoprotein and mediates growth inhibition of breast carcinoma cells. Tagliabue E, et al. **Br J Cancer** 1996 Nov;74(9):1427–33

Fibroblast growth factor 2 in breast cancer: occurrence and prognostic significance. Yiangou C, et al. **Br J Cancer** 1997; 75(1):28–33

TGF–beta 1 mRNA expression in clinical breast cancer and its relationship to ER mRNA expression. Amoils KD, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):95–101

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103–9

IGF–II mRNA and protein are expressed in the stroma of invasive breast cancers: an in situ hybridization and immunohistochemistry study. Giani C, et al. **Breast Cancer Res Treat** 1996;41(1):43–50

Postsynthetic regulation of insulin–like growth factor–binding protein–3 by MCF–7 human breast cancer cells in culture. Grimes RW, et al. **Breast Cancer Res Treat** 1996;39(2):187–96

Prognostic significance of PAI–1 and uPA in cytosolic extracts obtained from node–positive breast cancer patients. Grøndahl–Hansen J, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):153–63

CD44 variant expression and estrogen receptor status in breast cancer. Hole AK, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):165–73

The expression of Ki–S1 and BCL–2 and the response to primary tamoxifen therapy in elderly patients with breast cancer. Keen JC, et al. **Breast Cancer Res Treat** 1997 Jun; 44(2):123–33

Clinical significance of bcl–2 gene expression in human breast cancer tissues. Kobayashi S, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):173–81

Effects of secretory products of breast cancer cells on osteoblast–like cells. Lacroix M, et al. **Breast Cancer Res Treat** 1996;38(2):209–16

Proliferating cell nuclear antigen and heat shock protein 70 immunolocalization in invasive ductal breast cancer not otherwise specified. Lazaris ACh, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):43–51

Mechanism for maintenance of high breast tumor estradiol concentrations in the absence of ovarian function: role of very high affinity tissue uptake. Masamura S, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):215–26

Midkine expression in human breast cancers: expression of truncated form. Miyashiro I, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):1–6

Cell cycle expression of estrogen receptors determined by image analysis on human breast cancer cells in vitro and in vivo. Rostagno P, et al. **Breast Cancer Res Treat** 1996; 39(2):147–54

Captopril modulates hormone receptor concentration and inhibits proliferation of human mammary ductal carcinoma cells in culture. Small W Jr, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):217–24

Macromolecular interstitial clearance, tumour vascularity, other prognostic factors and breast cancer survival. Sterns EE, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):113–20

Low–density lipoprotein receptor mRNA in human breast cancer cells: influence by PKC modulators. Stranzl A, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):195–205

Expression of L–PHA–binding proteins in breast cancer: reconstitution and molecular characterization of beta 1–6 branched oligosaccharides in three–dimensional cell culture. Taeda Y, et al. **Breast Cancer Res Treat** 1996; 38(3):313–24

A second trefoil protein, ITF/hP1.B, is transcribed in human breast cancer. Theisinger B, et al. **Breast Cancer Res Treat** 1996;38(2):145–51

Comparison of action of the anti–neoplastic drug lonidamine on drug–sensitive and drug–resistant human breast cancer cells: 31P and 13C nuclear magnetic resonance studies. Vivi A, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):15–25

Relaxin and breast cancer. Bani D. **Bull Cancer** 1997 Feb; 84(2):179–82

Expression of interleukin–1beta in human breast carcinoma. Jin L, et al. **Cancer** 1997 Aug 1;80(3):421–34

An N–myristoylated protein kinase C–alpha pseudosubstrate peptide that functions as a multidrug resistance reversal agent in human breast cancer cells is not a P–glycoprotein substrate. Bergman PJ, et al. **Cancer Chemother Pharmacol** 1997;40(5):453–6

The effects of terbium on the cellular accumulation of cisplatin in MDA–MB–231 human breast tumor cells. Mack KM, et al. **Cancer Chemother Pharmacol** 1997;39(3):217–22

Formation, intracellular distribution and efflux of glutathione–bimane conjugates in drug–sensitive and –resistant MCF–7 cells. Millis KK, et al. **Cancer Chemother Pharmacol** 1997;40(2):101–11

Antiestrogenic activities of alternate–substituted polychlorinated dibenzofurans in MCF–7 human breast cancer cells. Sun G, et al. **Cancer Chemother Pharmacol** 1997;40(3):239–44

Pharmacokinetics and clinical impact of all–trans retinoic acid in metastatic breast cancer: a phase II trial. Sutton LM, et al. **Cancer Chemother Pharmacol** 1997;40(4):335–41

Vimentin and alpha–fetoprotein expression in breast cancer smears: relationship with various prognostic factors. Athanassiadou P, et al. **Cancer Detect Prev** 1997; 21(3):207–12

Class I major histocompatibility complex antigens and tumor ploidy in breast and bronchogenic carcinomas. Redondo M, et al. **Cancer Detect Prev** 1997;21(1):22–8

Adipose tissue trans fatty acids and breast cancer in the European Community Multicenter Study on Antioxidants, Myocardial Infarction, and Breast Cancer. Kohlmeier L, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep; 6(9):705–10

Evidence for a functional kit receptor in melanoma, breast, and lung carcinoma cells. DiPaola RS, et al. **Cancer Gene Ther** 1997 May–Jun;4(3):176–82

Adenoviral–mediated suicide gene therapy for hepatic metastases of breast cancer. Kwong YL, et al. **Cancer Gene Ther** 1996 Sep–Oct;3(5):339–44

Overexpression of BCL–x protein in primary breast cancer is associated with high tumor grade and nodal metastases. Olopade OI, et al. **Cancer J Sci Am** 1997 Jul–Aug; 3(4):230–7

Tyrosine kinase signaling pathways control the expression of retinoic acid receptor–alpha in SK–BR–3 breast cancer cells. Flicker SH, et al. **Cancer Lett** 1997 May 1; 115(1):63–72

Polyamine contents of human breast cancer cells treated with the cytotoxic agents chlorpheniramine and dehydrodidemnin B. Gómez–Fabre PM, et al. **Cancer Lett** 1997 Feb 26;113(1–2):141–4

Retinyl methyl ether down–regulates activator protein 1 transcriptional activation in breast cancer cells. Agadir A, et al. **Cancer Res** 1997 Aug 15;57(16):3444–50

Metabolic activation of benzo[g]chrysene in the human mammary carcinoma cell line MCF–7. Agarwal R, et al. **Cancer Res** 1997 Feb 1;57(3):415–9

Cell cycle–dependent expression of TAP1, TAP2, and HLA–B27 messenger RNAs in a human breast cancer cell line. Alpan RS, et al. **Cancer Res** 1996 Oct 1;56(19):4358–61

Thrombospondin–1 and –2 messenger RNA expression in normal, benign, and neoplastic human breast tissues: correlation with prognostic factors, tumor angiogenesis, and fibroblastic desmoplasia. Bertin N, et al. **Cancer Res** 1997 Feb 1;57(3):396–9

Defects in p21WAF1/CIP1, Rb, and c–myc signaling in phorbol ester–resistant cancer cells. Blagosklonny MV, et al. **Cancer Res** 1997 Jan 15;57(2):320–5

Neu differentiation factor induces ErbB2 down–regulation and apoptosis of ErbB2–overexpressing breast tumor cells. Daly JM, et al. **Cancer Res** 1997 Sep 1;57(17):3804–11

Inhibition of breast cancer tissue aromatase activity and estrogen concentrations by the third–generation aromatase inhibitor vorozole. de Jong PC, et al. **Cancer Res** 1997 Jun 1;57(11):2109–11

Retinoic acid receptor alpha expression correlates with retinoid–induced growth inhibition of human breast cancer cells regardless of estrogen receptor status. Fitzgerald P, et al. **Cancer Res** 1997 Jul 1;57(13):2642–50

Lovastatin induction of cyclin–dependent kinase inhibitors in human breast cells occurs in a cell cycle–independent fashion. Gray–Bablin J, et al. **Cancer Res** 1997 Feb 15; 57(4):604–9

Abnormal FHIT transcripts in human breast carcinomas: a clinicopathological and epidemiological analysis of 61 Japanese cases. Hayashi S, et al. **Cancer Res** 1997 May 15;57(10):1981–5

Expression of human prostate–specific glandular kallikrein protein (hK2) in the breast cancer cell line T47–D. Hsieh ML, et al. **Cancer Res** 1997 Jul 1;57(13):2651–6

Comparison of estrogen receptor DNA binding in untreated and acquired antiestrogen–resistant human breast tumors. Johnston SR, et al. **Cancer Res** 1997 Sep 1;57(17):3723–7

Fas expression and function in normal and malignant breast cell lines. Keane MM, et al. **Cancer Res** 1996 Oct 15; 56(20):4791–8

Predominant cytosolic localization of type II transforming growth factor beta receptors in human breast carcinoma cells. Koli KM, et al. **Cancer Res** 1997 Mar 1;57(5):970–7

Differential expression of psoriasin messenger RNA between in situ and invasive human breast carcinoma [published erratum appears in Cancer Res 1997 Feb 15;57(4):793] Leygue E, et al. **Cancer Res** 1996 Oct 15;56(20):4606–9

Differential expression and regulation of cyclooxygenase–1 and –2 in two human breast cancer cell lines. Liu XH, et al. **Cancer Res** 1996 Nov 15;56(22):5125–7

Luteinizing hormone/human chorionic gonadotropin receptors in breast cancer. Meduri G, et al. **Cancer Res** 1997 Mar 1;57(5):857–64

5–fluorouracil kinetics in the interstitial tumor space: clinical response in breast cancer patients. Müller M, et al. **Cancer Res** 1997 Jul 1;57(13):2598–601

Expression of the angiogenic factors vascular endothelial cell growth factor, acidic and basic fibroblast growth factor, tumor growth factor beta–1, platelet–derived endothelial cell growth factor, placenta growth factor, and pleiotrophin in human primary breast cancer and its relation

to angiogenesis. Relf M, et al. **Cancer Res** 1997 Mar 1; 57(5):963–9

Antitumor activity of the novel human breast cancer growth inhibitor, mammary-derived growth inhibitor-related gene, MRG. Shi YE, et al. **Cancer Res** 1997 Aug 1; 57(15):3084–91

Tamoxifen down-regulates CD36 messenger RNA levels in normal and neoplastic human breast tissues. Silva ID, et al. **Cancer Res** 1997 Feb 1;57(3):378–81

The cell cycle inhibitor p27 is an independent prognostic marker in small (T1a,b) invasive breast carcinomas. Tan P, et al. **Cancer Res** 1997 Apr 1;57(7):1259–63

Insulin-like growth factor-I receptor overexpression mediates cellular radioresistance and local breast cancer recurrence after lumpectomy and radiation. Turner BC, et al. **Cancer Res** 1997 Aug 1;57(15):3079–83

A functional assay in yeast for the human estrogen receptor displays wild-type and variant estrogen receptor messenger RNAs present in breast carcinoma. van Dijk MA, et al. **Cancer Res** 1997 Aug 15;57(16):3478–85

Cell cycle control of BRCA2. Vaughn JP, et al. **Cancer Res** 1996 Oct 15;56(20):4590–4

An estrogen receptor mutant with strong hormone-independent activity from a metastatic breast cancer. Zhang QX, et al. **Cancer Res** 1997 Apr 1; 57(7):1244–9

Effect of toxaphene on estrogen receptor functions in human breast cancer cells. Bonefeld Jørgensen EC, et al. **Carcinogenesis** 1997 Aug;18(8):1651–4

Benzo[c]phenanthrene is activated to DNA-binding diol epoxides in the human mammary carcinoma cell line MCF-7 but only limited activation occurs in mouse skin. Einolf HJ, et al. **Carcinogenesis** 1996 Oct;17(10):2237–44

Progression of MCF-7 breast cancer cells to antiestrogen-resistant phenotype is accompanied by elevated levels of AP-1 DNA-binding activity. Dumont JA, et al. **Cell Growth Differ** 1996 Mar;7(3):351–9

A role for insulin-like growth factor binding protein 5 in the antiproliferative action of the antiestrogen ICI 182780. Huynh H, et al. **Cell Growth Differ** 1996 Nov;7(11):1501–6

Bcl-2 expression regulates sodium butyrate-induced apoptosis in human MCF-7 breast cancer cells. Mandal M, et al. **Cell Growth Differ** 1996 Mar;7(3):311–8

Internalization and biological effects of serum albumin in the breast cancer MCF-7 and MDA-MB 231 cells. Germain P, et al. **Cell Mol Biol (Noisy-le-grand)** 1995 Dec; 41(8):1119–29

Use of confocal microscopy to localize the SHBG interaction with human breast cancer cell lines--a comparison with serum albumin interaction. Germain P, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jun;43(4):501–8

Comparison of mathematical formulas used for estimation of DNA synthesis time of bromodeoxyuridine-labelled cell populations with different proliferative characteristics. Johansson MC, et al. **Cell Prolif** 1996 Oct;29(10):525–38

Ionic signals in T47D human breast cancer cells. Gallagher JD, et al. **Cell Signal** 1996 Jun;8(4):279–84

Oxidative DNA damage induced by activation of polychlorinated biphenyls (PCBs): implications for PCB-induced oxidative stress in breast cancer. Oakley GG, et al. **Chem Res Toxicol** 1996 Dec;9(8):1285–92

Stereoselective activation of dibenzo[a,l]pyrene and its trans-11,12-dihydrodiol to fjord region 11,12-diol 13,14-epoxides in a human mammary carcinoma MCF-7 cell-mediated V79 cell mutation assay. Ralston SL, et al. **Chem Res Toxicol** 1997 Jun;10(6):687–93

Prognostic significance of c-erbB-2/neu amplification and epidermal growth factor receptor (EGFR) in primary breast cancer and their relation to estradiol receptor (ER) status. Torregrosa D, et al. **Clin Chim Acta** 1997 Jun 27; 262(1-2):99–119

Differential expression of annexin I in human mammary ductal epithelial cells in normal and benign and malignant breast tissues. Ahn SH, et al. **Clin Exp Metastasis** 1997 Mar;15(2):151–6

MT1-MMP correlates with MMP-2 activation potential seen after epithelial to mesenchymal transition in human breast carcinoma cells [published erratum appears in Clin Exp Metastasis 1997 May;15(3):338] Pulyaeva H, et al. **Clin Exp Metastasis** 1997 Mar;15(2):111–20

A soluble interleukin 6 receptor isolated from conditioned medium of human breast cancer cells is encoded by a differentially spliced mRNA. Oh JW, et al. **Cytokine** 1996 May;8(5):401–9

Cytokeratin labeling of breast cancer cells extracted from paraffin-embedded tissue for bivariate flow cytometric analysis. Glogovac JK, et al. **Cytometry** 1996 Jul 1; 24(3):260–7

Multi-parameter flow cytometric analysis with detection of the Ki67-Ag in paraffin embedded mammary carcinomas. Leers MP, et al. **Cytometry** 1997 Mar 1;27(3):283–9

Flow cytometric analysis of apoptosis and bcl-2 in primary breast carcinomas: clinical and biological implications. Steck K, et al. **Cytometry** 1996 Jun 1;24(2):116–22

Expression of insulin-like growth factor-I receptor and transferrin receptor by breast cancer cells in pleural effusion smears. Athanassiadou P, et al. **Cytopathology** 1996 Dec;7(6):400–5

Elevated expression of retinoic acid receptor-alpha (RAR alpha) in estrogen-receptor-positive breast carcinomas as detected by immunohistochemistry. Han QX, et al. **Diagn Mol Pathol** 1997 Feb;6(1):42–8

Nonlinear pharmacokinetics of cyclophosphamide and 4-hydroxycyclophosphamide/aldophosphamide in patients with metastatic breast cancer receiving high-dose chemotherapy followed by autologous bone marrow transplantation. Chen TL, et al. **Drug Metab Dispos** 1997 May;25(5):544–51

Identification and characterization of limonene metabolites in patients with advanced cancer by liquid chromatography/mass spectrometry. Poon GK, et al. **Drug Metab Dispos** 1996 May;24(5):565–71

Amino acids and their derivatives in tumour tissue from patients with breast cancer treated with Ukrain. Part VI. Nefyodov LI, et al. **Drugs Exp Clin Res** 1996; 22(3-5):159–61

Retinoids increase cell-cell adhesion strength, beta-catenin protein stability, and localization to the cell membrane in a breast cancer cell line: a role for serine kinase activity. Byers S, et al. **Endocrinology** 1996 Aug;137(8):3265–73

Interleukin-1 blocks insulin and insulin-like growth factor-stimulated growth in MCF-7 human breast cancer cells by inhibiting receptor tyrosine kinase activity. Costantino A, et al. **Endocrinology** 1996 Oct;137(10):4100–7

Retinoic acids increase 17 beta-hydroxysteroid dehydrogenase type 1 expression in JEG-3 and T47D cells, but the stimulation is potentiated by epidermal growth factor, 12-O-tetradecanoylphorbol-13-acetate, and cyclic adenosine 3',5'-monophosphate only in JEG-3 cells. Piao YS, et al. **Endocrinology** 1997 Mar;138(3):898–904

Regulation of estrogen receptor concentration and activity by an erbB/HER ligand in breast carcinoma cell lines. Saceda M, et al. **Endocrinology** 1996 Oct;137(10):4322–30

Octapeptide somatostatin analog SMS 201-995 induces translocation of intracellular PTP1C to membranes in MCF-7 human breast adenocarcinoma cells. Srikant CB, et al. **Endocrinology** 1996 Aug;137(8):3461–8

The role of transforming growth factor-beta in the regulation of estrogen receptor expression in the MCF-7 breast cancer cell line. Stoica A, et al. **Endocrinology** 1997 Apr; 138(4):1498–505

Estrogen regulates somatostatin receptor subtype 2 messenger ribonucleic acid expression in human breast cancer cells. Xu Y, et al. **Endocrinology** 1996 Dec; 137(12):5634–40

Estrogen biosynthesis proximal to a breast tumor is stimulated by PGE2 via cyclic AMP, leading to activation of promoter II of the CYP19 (aromatase) gene. Zhao Y, et al. **Endocrinology** 1996 Dec;137(12):5739–42

Hormones, hormone metabolism, environment, and breast cancer: a workshop of the National Action Plan on Breast Cancer's Etiology Working Group. Davis DL, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:557

Estrogenicity of resin-based composites and sealants used in dentistry [see comments] Olea N, et al. **Environ Health Perspect** 1996 Mar;104(3):298–305. Comment in: Environ Health Perspect 1996 Aug;104(8):808. Comment in: Environ Health Perspect 1997 Apr;105(4):362.

Estradiol metabolism: an endocrine biomarker for modulation of human mammary carcinogenesis. Telang NT, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:559–64 (45 ref.)

Multiple forms of TGF-beta 1 in breast tissues: a biologically active form of the small latent complex of TGF-beta 1. Baillie R, et al. **Eur J Cancer** 1996 Aug;32A(9):1566–73

The minimal effective exemestane dose for endocrine activity in advanced breast cancer. Bajetta E, et al. **Eur J Cancer** 1997 Apr;33(4):587–91

Examination of multidrug resistance in cell lines and primary breast tumours by flow cytometry. Brotherick I, et al. **Eur J Cancer** 1996 Dec;32A(13):2334–41

p53 expression is of independent predictive value in lymph node-negative breast carcinoma. Fresno M, et al. **Eur J Cancer** 1997 Jul;33(8):1268–74

The clinical significance of androgen receptors in breast cancer and their relation to histological and cell biological parameters. Kuenen-Boumeester V, et al. **Eur J Cancer** 1996 Aug;32A(9):1560–5

Assay of E-cadherin by ELISA in human breast cancers. Maguire TM, et al. **Eur J Cancer** 1997 Mar;33(3):404–8

Expression of Bcl-2 protein in human primary breast carcinomas and its correlation with multifocality, histopathological types and prognosis. Papadimitriou CS, et al. **Eur J Cancer** 1997 Jul;33(8):1275–80

p53 protein expression, cell proliferation and steroid hormone receptors in ductal and lobular in situ carcinomas of the breast. Rudas M, et al. **Eur J Cancer** 1997 Jan;33(1):39–44

Differential responsiveness of proliferation and cytokeratin release to stripped serum and oestrogen in the human breast cancer cell line, MCF-7. Tedone T, et al. **Eur J Cancer** 1996 May;32A(5):849–56

Labelling of breast carcinoma, thyroid carcinoma and melanoma with manno- and galacto-specific lectins from marine invertebrates. Opric MM, et al. **Eur J Histochem** 1996;40(3):211–8

Enhancement of tamoxifen-induced E-cadherin function by Ca2+ channel antagonists in human breast cancer MCF7/6 cells. Charlier C, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2-3):413–6

Antiproliferative and receptor binding properties of alpha- and beta-casomorphins in the T47D human breast cancer cell line. Hatzoglou A, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):217–23

Heparan sulfate proteoglycans play a dual role in regulating fibroblast growth factor-2 mitogenic activity in human breast cancer cells. Delehedde M, et al. **Exp Cell Res** 1996 Dec 15;229(2):398–406

Estradiol receptors and metastasis in human breast cancer. Görlich M, et al. **Folia Biol (Praha)** 1996;42(1-2):3–10 (65 ref.)

Expression of c-erbB-2 oncogene and p53 tumor suppressor gene in benign and malignant breast tissue: correlation with proliferative activity and prognostic index. Alexiev BA, et al. **Gen Diagn Pathol** 1997 Jun;142(5-6):271–9

Immunohistochemical expression of p53 and c-erbB-2 in breast carcinoma: relation with epidemiologic factors, histologic features and prognosis. Fernández Aceñero MJ, et al. **Gen Diagn Pathol** 1997 Jun;142(5-6):289–96

Definition of the tumor protein D52 (TPD52) gene family through cloning of D52 homologues in human (hD53) and mouse (mD52). Byrne JA, et al. **Genomics** 1996 Aug 1; 35(3):523–32

Immunohistochemical localization of extracellular matrix components in human breast tumours with special reference to PG-M/versican. Nara Y, et al. **Histochem J** 1997 Jan; 29(1):21–30

Expression of beta-catenin in normal breast tissue and breast carcinoma: a comparative study with epithelial cadherin and alpha-catenin. Hashizume R, et al. **Histopathology** 1996 Aug;29(2):139–46

Epithelial hyperplasia of usual type expresses both S100-alpha and S100-beta in a heterogeneous pattern but ductal carcinoma in situ can express only S100-alpha in a monotonous pattern. Ichihara S, et al. **Histopathology** 1997 Jun;30(6):533–41

Sex steroid-binding protein and its membrane receptor in estrogen-dependent breast cancer: biological and pathophysiological impact. Fortunati N, et al. **Horm Res** 1996;45(3-5):202–6 (16 ref.)

Automated and quantitative immunocytochemical assays of CD44v6 in breast carcinomas. Charpin C, et al. **Hum Pathol** 1997 Mar;28(3):289–96

Role of CD44 in nonpalpable T1a and T1b breast cancer. Lyzak JS, et al. **Hum Pathol** 1997 Jul;28(7):772–8

Relationship of a new histological categorization of ductal carcinoma in situ of the breast with size and the immunohistochemical expression of p53, c-erb B2, bcl-2, and ki-67 [see comments] Mack L, et al. **Hum Pathol** 1997 Aug;28(8):974–9. Comment in: Hum Pathol 1997 Aug;28(8):877–80.

Expression of cytokeratin messenger RNA versus protein in the normal mammary gland and in breast cancer. Su L, et al. **Hum Pathol** 1996 Aug;27(8):800–6

Phosphorylation of A 27-kDa protein correlates with survival of protein-synthesis-inhibited MCF-7 cells. Geier A, et al. **In Vitro Cell Dev Biol Anim** 1997 Feb;33(2):129–36

Relationship between c-erbB-2 oncoprotein, epidermal growth factor receptor, and estrogen receptor expression in patients with ductal breast carcinoma. Association with tumor phenotypes. Harłozińska A, et al. **In Vivo** 1996 Mar-Apr;10(2):217–22

Hormone receptors in breast carcinomas. Mandal AK. **Indian J Pathol Microbiol** 1995 Jan;38(1):109–18 (17 ref.)

Bauhinia purpurea and Pisum sativum lectin binding in human breast. Sarker AB, et al. **Indian J Pathol Microbiol** 1995 Jul;38(3):261–5

Expression of connective tissue growth factor mRNA in the fibrous stroma of mammary tumors. Frazier KS, et al. **Int J Biochem Cell Biol** 1997 Jan;29(1):153–61

Expression of the PEA3 group of ETS-related transcription factors in human breast-cancer cells. Baert JL, et al. **Int J Cancer** 1997 Mar 4;70(5):590–7

Adipose fatty acids and cancers of the breast, prostate and colon: an ecological study. EURAMIC Study Group. Bakker N, et al. **Int J Cancer** 1997 Aug 7;72(4):587–91

Expression of the c-Met/HGF receptor in human breast carcinoma: correlation with tumor progression. Beviglia L, et al. **Int J Cancer** 1997 Jun 20;74(3):301–9

Decreased expression of ICAM-1 and its induction by tumor necrosis factor on breast-cancer cells in vitro. Budinsky AC, et al. **Int J Cancer** 1997 Jun 11;71(6):1086–90

Lymphocyte and monocyte-induced motility of MCF-7 cells by tumor necrosis factor-alpha. Carpenter PM, et al. **Int J Cancer** 1997 Mar 28;71(1):64–70

Oxytocin inhibits the proliferation of MDA-MB231 human breast-cancer cells via cyclic adenosine monophosphate and protein kinase A. Cassoni P, et al. **Int J Cancer** 1997 Jul 17;72(2):340–4

High levels of stromelysin-3 correlate with poor prognosis in patients with breast carcinoma. Chenard MP, et al. **Int J Cancer** 1996 Dec 20;69(6):448–51

Assessment of homogeneity in polypeptide expression in breast carcinomas shows widely variable expression in highly malignant tumors. Franzén B, et al. **Int J Cancer** 1996 Oct 21;69(5):408–14

Decreased Egr-1 expression in human, mouse and rat mammary cells and tissues correlates with tumor formation. Huang RP, et al. **Int J Cancer** 1997 Jul 3;72(1):102–9

Expression of tenascin in invasion border of early breast cancer correlates with higher risk of distant metastasis. Jahkola T, et al. **Int J Cancer** 1996 Dec 20;69(6):445–7

The genes for gonadotropin-releasing hormone and its receptor are expressed in human breast with fibrocystic disease and cancer. Kottler ML, et al. **Int J Cancer** 1997 May 16;71(4):595–9

Characterization of estrogen-dependent growth of cultured MCF-7 human breast-cancer cells expressing 17beta-hydroxysteroid dehydrogenase type 1. Miettinen MM, et al. **Int J Cancer** 1996 Nov 27;68(5):600-4

Functional role of alpha4beta1 and alpha5beta1 integrin fibronectin receptors expressed on adriamycin-resistant MCF-7 human mammary carcinoma cells. Nista A, et al. **Int J Cancer** 1997 Jul 3;72(1):133-41

Concentrations of estrone, estradiol and their sulfates, and evaluation of sulfatase and aromatase activities in patients with breast fibroadenoma. Pasqualini JR, et al. **Int J Cancer** 1997 Mar 17;70(6):639-43

Annamycin circumvents resistance mediated by the multidrug resistance-associated protein (MRP) in breast MCF-7 and small-cell lung UMCC-1 cancer cell lines selected for resistance to etoposide. Perez-Soler R, et al. **Int J Cancer** 1997 Mar 28;71(1):35-41

Endothelial and epithelial expression of sialyl Lewis(x) and sialyl Lewis(a) in lesions of breast carcinoma. Renkonen J, et al. **Int J Cancer** 1997 Jun 20;74(3):296-300

Somatostatin receptor subtypes sst1, sst2, sst3 and sst5 expression in human pituitary, gastroentero-pancreatic and mammary tumors: comparison of mRNA analysis with receptor autoradiography. Schaer JC, et al. **Int J Cancer** 1997 Mar 4;70(5):530-7

E-cadherin mRNA expression in breast carcinomas correlates with overall and disease-free survival. Guriec N, et al. **Invasion Metastasis** 1996;16(1):19-26

Weight gain in women diagnosed with breast cancer. Demark-Wahnefried W, et al. **J Am Diet Assoc** 1997 May; 97(5):519-26, 529; quiz 527-8 (83 ref.)

Alteration of the sphingomyelin/ceramide pathway is associated with resistance of human breast carcinoma MCF7 cells to tumor necrosis factor-alpha-mediated cytotoxicity. Cai Z, et al. **J Biol Chem** 1997 Mar 14; 272(11):6918-26

Expression of transforming growth factor beta (TGFbeta) type III receptor restores autocrine TGFbeta1 activity in human breast cancer MCF-7 cells. Chen C, et al. **J Biol Chem** 1997 May 9;272(19):12862-7

Cell-surface cytokeratin 8 is the major plasminogen receptor on breast cancer cells and is required for the accelerated activation of cell-associated plasminogen by tissue-type plasminogen activator. Hembrough TA, et al. **J Biol Chem** 1996 Oct 11;271(41):25684-91

Effect of extracellular AMP on cell proliferation and metabolism of breast cancer cell lines with high and low glycolytic rates. Mazurek S, et al. **J Biol Chem** 1997 Feb 21;272(8):4941-52

Murine epidermal growth factor peptide (33-42) binds to a YIGSR-specific laminin receptor on both tumor and endothelial cells. Nelson J, et al. **J Biol Chem** 1996 Oct 18;271(42):26179-86

Interaction of the DF3/MUC1 breast carcinoma-associated antigen and beta-catenin in cell adhesion. Yamamoto M, et al. **J Biol Chem** 1997 May 9;272(19):12492-4

Estrogen regulation of nuclear matrix-intermediate filament proteins in human breast cancer cells. Coutts AS, et al. **J Cell Biochem** 1996 Nov 1;63(2):174-84

Production of sulfated proteoglycans by human breast cancer cell lines: binding to fibroblast growth factor-2. Delehedde M, et al. **J Cell Biochem** 1997 Mar 15;64(4):605-17

Heparin-binding domain, type 1 and type 2 repeats of thrombospondin mediate its interaction with human breast cancer cells. Incardona F, et al. **J Cell Biochem** 1996 Sep 15;62(4):431-42

Reduced drug accumulation and multidrug resistance in human breast cancer cells without associated P-glycoprotein or MRP overexpression. Lee JS, et al. **J Cell Biochem** 1997 Jun 15;65(4):513-26

Inducible expression of cyclin D1 in T-47D human breast cancer cells is sufficient for Cdk2 activation and pRB hyperphosphorylation. Musgrove EA, et al. **J Cell Biochem** 1996 Mar 1;60(3):363-78

Cell-type specific regulation of human interstitial collagenase-1 gene expression by interleukin-1 beta (IL-1 beta) in human fibroblasts and BC-8701 breast cancer cells. Rutter JL, et al. **J Cell Biochem** 1997 Sep 1;66(3):322-36

A transfected sialyltransferase that is elevated in breast cancer and localizes to the medial/trans-Golgi apparatus inhibits the development of core-2-based O-glycans. Whitehouse C, et al. **J Cell Biol** 1997 Jun 16;137(6):1229-41

Analysis of receptor phenotypes in operated breast cancer. Cherubini M, et al. **J Chemother** 1997 Apr;9(2):117-8

Somatostatin and growth hormone-releasing hormone in normal and tumoral human breast tissue: endogenous content, in vitro pulsatile release, and regulation. Benlot C, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):690-6

Expression of estrogen receptor-beta in human breast tumors. Dotzlaw H, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2371-4

Highly specific cytochrome P450-like enzymes for all-trans-retinoic acid in T47D human breast cancer cells. Han IS, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2069-75

Coexpression of stromelysin-3 and insulin-like growth factor II in tumors of ectodermal, mesodermal, and endodermal origin: indicator of a fetal cell phenotype. Singer CF, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1917-22

Generation and characterization of an IGFBP-7 antibody: identification of 31kD IGFBP-7 in human biological fluids and Hs578T human breast cancer conditioned media. Wilson EM, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1301-3

Alpha 1-antitrypsin blocks the release of transforming growth factor-alpha from MCF-7 human breast cancer cells. Yavelow J, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):745-52

Dose escalation of cyclophosphamide in patients with breast cancer: consequences for pharmacokinetics and metabolism. Busse D, et al. **J Clin Oncol** 1997 May; 15(5):1885-96

bcl-2, p53, and response to tamoxifen in estrogen receptor-positive metastatic breast cancer: a Southwest Oncology Group study. Elledge RM, et al. **J Clin Oncol** 1997 May;15(5):1916-22

Human pharmacokinetic characterization and in vitro study of the interaction between doxorubicin and paclitaxel in patients with breast cancer. Gianni L, et al. **J Clin Oncol** 1997 May;15(5):1906-15

Sequence-dependent alteration of doxorubicin pharmacokinetics by paclitaxel in a phase I study of paclitaxel and doxorubicin in patients with metastatic breast cancer. Holmes FA, et al. **J Clin Oncol** 1996 Oct; 14(10):2713-21

Tumour heterogeneity of DNA cell cycle variables in breast cancer measured by flow cytometry. Bergers E, et al. **J Clin Pathol** 1996 Nov;49(11):931-7

Prognostic role of oestrogen and progesterone receptors in patients with breast cancer: relation to age and lymph node status. Collett K, et al. **J Clin Pathol** 1996 Nov;49(11):920-5

MIB-1 proliferative activity in invasive breast cancer measured by image analysis [see comments] Querzoli P, et al. **J Clin Pathol** 1996 Nov;49(11):926-30. Comment in: J Clin Pathol 1996 Nov;49(11):868-9.

Analysis of phosphorylation of pRB and its regulatory proteins in breast cancer. Wakasugi E, et al. **J Clin Pathol** 1997 May;50(5):407-12

Oestrogen and progesterone receptor assessment in core biopsy specimens of breast carcinoma. Zidan A, et al. **J Clin Pathol** 1997 Jan;50(1):27-9

2-hydroxyestrone: the 'good' estrogen. Bradlow HL, et al. **J Endocrinol** 1996 Sep;150 Suppl:S259-65 (37 ref.)

Oestrogen formation in breast: clinical and biological importance. Dowsett M, et al. **J Endocrinol** 1996 Sep;150 Suppl:S59-63

Regulation of aromatase and sulphatase in breast tumour cells. Purohit A, et al. **J Endocrinol** 1996 Sep;150 Suppl:S65-71

Tumor collagenase stimulatory factor (TCSF) expression and localization in human lung and breast cancers. Polette M, et al. **J Histochem Cytochem** 1997 May;45(5):703-9

Quantitative radioimmunohistochemical measurements of p185(erbB-2) in frozen tissue sections. Reeves JR, et al. **J Histochem Cytochem** 1996 Nov;44(11):1251-9

(S)-(+)-4-[7-(2,2-dimethyl-1-oxopropoxy)-4-methyl-2-[4-[2-(1-piperidinyl)-ethoxy]phenyl]-2H-1-benzopyran-3-yl]-phenyl 2,2-dimethylpropanoate (EM-800): a highly potent, specific, and orally active nonsteroidal antiestrogen. Gauthier S, et al. **J Med Chem** 1997 Jul 4;40(14):2117-22

Dietary modulation of omega-3/omega-6 polyunsaturated fatty acid ratios in patients with breast cancer. Bagga D, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1123-31

Time for integration of predictive factors for selection of breast cancer patients who need postoperative radiation therapy? [editorial; comment] Bergh J. **J Natl Cancer Inst** 1997 May 7;89(9):605-7 (31 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):639-45.

Could the rising levels of estrogen receptor in breast cancer be due to estrogenic pollutants? [letter] Dewailly E, et al. **J Natl Cancer Inst** 1997 Jun 18;89(12):888-9

Low frequency of ErbB-2 proto-oncogene overexpression in human leukocyte antigen-A2-positive breast cancer patients. Nisticò P, et al. **J Natl Cancer Inst** 1997 Feb 19; 89(4):319-21

Antiproliferative action of vitamin D-related compounds and insulin-like growth factor-binding protein 5 accumulation. Rozen F, et al. **J Natl Cancer Inst** 1997 May 7;89(9):652-6

Multidrug resistance in breast cancer: a meta-analysis of MDR1/gp170 expression and its possible functional significance [see comments] Trock BJ, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):917-31. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):902-3. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):904-5.

Fractional retention of technetium-99m-sestamibi as an index of P-glycoprotein expression in untreated breast cancer patients. Del Vecchio S, et al. **J Nucl Med** 1997 Sep; 38(9):1348-51

Retinoblastoma protein in human breast carcinoma: immunohistochemical study using a new monoclonal antibody effective on routinely processed tissues. Anderson JJ, et al. **J Pathol** 1996 Sep;180(1):65-70

Cyclin D1 in mammary carcinoma. Barnes DM. **J Pathol** 1997 Mar;181(3):267-9 (31 ref.)

Relationship between abnormal p53 protein and failure to express p21 protein in human breast carcinomas. Bukholm IK, et al. **J Pathol** 1997 Feb;181(2):140-5

E-cadherin quantitative immunocytochemical assays in breast carcinomas. Charpin C, et al. **J Pathol** 1997 Mar; 181(3):294-300

Overexpression or ectopic expression of MUC2 is the common property of mucinous carcinomas of the colon, pancreas, breast, and ovary. Hanski C, et al. **J Pathol** 1997 Aug;182(4):385-91

Immunohistochemical assay for oestrogen receptors in paraffin wax sections of breast carcinoma using a new monoclonal antibody. Huang A, et al. **J Pathol** 1996 Oct; 180(2):223-7

Expression of human intestinal trefoil factor in malignant cells and its regulation by oestrogen in breast cancer cells. May FE, et al. **J Pathol** 1997 Aug;182(4):404-13

c-Src protein expression is increased in human breast cancer. An immunohistochemical and biochemical analysis. Verbeek BS, et al. **J Pathol** 1996 Dec;180(4):383-8

The spectrum of 67-kD laminin receptor expression in breast carcinoma progression. Viacava P, et al. **J Pathol** 1997 May;182(1):36-44

Co-expression of tenascin and fibronectin in epithelial and stromal cells of benign lesions and ductal carcinomas in the human breast. Yoshida T, et al. **J Pathol** 1997 Aug; 182(4):421-8

Epidermal growth factor and transforming growth factor alpha mRNA expression in human breast cancer biopsies; analysis in relation to estradiol, progesterone and EGF receptor content. Artagaveytia N, et al. **J Steroid Biochem Mol Biol** 1997 Feb;60(3-4):221-8

Estrogen induction of TGF-alpha is mediated by an estrogen response element composed of two imperfect palindromes. El-Ashry D, et al. **J Steroid Biochem Mol Biol** 1996 Nov; 59(3-4):261-9

Inverse regulation of oestrogen receptor and epidermal growth factor receptor gene expression in MCF-7 breast cancer cells treated with phorbol ester. Lee CS, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):267-75

Triiodothyronine mimics the effects of estrogen in breast cancer cell lines. Nogueira CR, et al. **J Steroid Biochem Mol Biol** 1996 Nov;59(3-4):271-9

Intratumour amount of sex steroids in elderly breast cancer patients. An approach to the biological characterization of mammary tumours in the elderly. Secreto G, et al. **J Steroid Biochem Mol Biol** 1996 Aug;58(5-6):557-61

Estrogen receptor, growth factor receptor and protooncogene protein activities and possible signal transduction crosstalk in estrogen dependent and independent breast cancer cell lines. Mohamood AS, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):1-17

Abnormal expression of four novel molecular markers represents a highly aggressive phenotype in breast cancer. Immunohistochemical assay of p53, nm23, erbB-2, and cathepsin D protein. Han S, et al. **J Surg Oncol** 1997 May; 65(1):22-7

p53 tumor suppressor protein and tissue proliferative fraction in infiltrating duct carcinoma. Kesari AL, et al. **J Surg Oncol** 1997 Jul;65(3):159-63

Interleukin-6 upregulates GP96 expression in breast cancer. Haverty AA, et al. **J Surg Res** 1997 Apr;69(1):145-9

Expression and roles of heat shock proteins in human breast cancer. Yano M, et al. **Jpn J Cancer Res** 1996 Sep; 87(9):908-15

Inhibition of 17 beta-estradiol and progesterone activity in human breast and endometrial cancer cells by carbamate insecticides. Klotz DM, et al. **Life Sci** 1997;60(17):1467-75

Three-component model of oestrogen formation and regulation of intratumoural oestrogen pool in breast neoplasms. Berstein LM, et al. **Med Hypotheses** 1995 Dec; 45(6):588-90 (23 ref.)

Estrogen receptor status of breast cancer: a marker of different stages of tumor or different entities of the disease? Zhu K, et al. **Med Hypotheses** 1997 Jul;49(1):69-75 (61 ref.)

Expression of inducible nitric oxide synthase in breast cancer correlates with metastatic disease. Dueñas-Gonzalez A, et al. **Mod Pathol** 1997 Jul;10(7):645-9

Expression of HMGI-C, a member of the high mobility group protein family, in a subset of breast cancers: relationship to histologic grade. Rogalla P, et al. **Mol Carcinog** 1997 Jul;19(3):153-6

Interleukin-4 and interleukin-13 inhibit estrogen-induced breast cancer cell proliferation and stimulate GCDFP-15 expression in human breast cancer cells. Blais Y, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):11-8

Stimulation or endothelin-1 secretion by human breast cancer cells through protein kinase A activation: a possible novel paracrine loop involving breast fibroblast-derived prostaglandin E2. Patel KV, et al. **Mol Cell Endocrinol** 1997 Feb 7;126(2):143-51

Overexpression of membrane glycoprotein PC-1 in MDA-MB231 breast cancer cells is associated with inhibition of insulin receptor tyrosine kinase activity. Belfiore A, et al. **Mol Endocrinol** 1996 Nov;10(11):1318-26

CDK2 is a target for retinoic acid-mediated growth inhibition in MCF-7 human breast cancer cells. Teixeira C, et al. **Mol Endocrinol** 1997 Aug;11(9):1191-202

Ionizing radiation and teniposide increase p21(waf1/cip1) and promote Rb dephosphorylation but fail to suppress E2F activity in MCF-7 breast tumor cells. Orr MS, et al. **Mol Pharmacol** 1997 Sep;52(3):373-9

CSF-1 and its receptor in breast carcinomas and neoplasms of the female reproductive tract. Kacinski BM. **Mol Reprod Dev** 1997 Jan;46(1):71-4 (17 ref.)

The interaction among glucose transport, hexokinase, and glucose-6-phosphatase with respect to 3H-2-deoxyglucose retention in murine tumor models. Nelson CA, et al. **Nucl Med Biol** 1996 May;23(4):533-41

The Z-isomer of 11 beta-methoxy-17

alpha-[123I]iodovinylestradiol is a promising radioligand for estrogen receptor imaging in human breast cancer. Rijks LJ, et al. **Nucl Med Biol** 1997 Jan;24(1):65-75

Inhibition of the erbB-2 tyrosine kinase receptor in breast cancer cells by phosphoromonothioate and phosphorodithioate antisense oligonucleotides. Vaughn JP, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4558-64

RRR-alpha-tocopheryl succinate enhances TGF-beta 1, -beta 2, and -beta 3 and TGF-beta R-II expression by human MDA-MB-435 breast cancer cells. Charpentier A, et al. **Nutr Cancer** 1996;26(2):237-50

Carotenoids, vitamin A, and estrogen receptor status in breast cancer. Rock CL, et al. **Nutr Cancer** 1996;25(3):281-96

Thyroid hormones and selenium status in breast cancer. Strain JJ, et al. **Nutr Cancer** 1997;27(1):48-52

BRCA1 protein level is not affected by peptide growth factors in MCF10A cell line. Aprelikova O, et al. **Oncogene** 1996 Dec 5;13(11):2487-91

BRK tyrosine kinase expression in a high proportion of human breast carcinomas. Barker KT, et al. **Oncogene** 1997 Aug 14;15(7):799-805

K-ras modulates the cell cycle via both positive and negative regulatory pathways. Fan J, et al. **Oncogene** 1997 May 29; 14(21):2595-607

Recognition of activated CSF-1 receptor in breast carcinomas by a tyrosine 723 phosphospecific antibody. Flick MB, et al. **Oncogene** 1997 May 29;14(21):2553-61

p21(WAF1/CIP1) response to genotoxic agents in wild-type TP53 expressing breast primary tumours. Guillot C, et al. **Oncogene** 1997 Jan 9;14(1):45-52

Regulation of tumor suppressor proteins, p53 and retinoblastoma, by estrogen and antiestrogens in breast cancer cells. Hurd C, et al. **Oncogene** 1997 Aug 18; 15(8):991-5

BRCA1 expression is not directly responsive to estrogen. Marks JR, et al. **Oncogene** 1997 Jan 9;14(1):115-21

Elevated expression of eIF4E and FGF-2 isoforms during vascularization of breast carcinomas. Nathan CA, et al. **Oncogene** 1997 Aug 28;15(9):1087-94

Deregulation of cyclin E and D1 in breast cancer is associated with inactivation of the retinoblastoma protein. Nielsen NH, et al. **Oncogene** 1997 Jan 23;14(3):295-304

Association of Grb2 with Sos and Ras with Raf-1 upon gamma irradiation of breast cancer cells. Suy S, et al. **Oncogene** 1997 Jul 3;15(1):53-61

Overexpression of c-erbB-2/neu in breast cancer cells confers increased resistance to Taxol via mdr-1-independent mechanisms. Yu D, et al. **Oncogene** 1996 Sep 19;13(6):1359-65

Inhibition of cyclin D expression in human breast carcinoma cells by retinoids in vitro. Zhou Q, et al. **Oncogene** 1997 Jul 3;15(1):107-15

The human breast cell DNA synthesome: its purification from tumor tissue and cell culture. Coll JM, et al. **Oncol Res** 1996;8(10-11):435-47

Effect of tamoxifen on pS2 expression in human breast cancers. Motomura K, et al. **Oncology** 1997 Sep-Oct; 54(5):424-8

HER2 overexpression and paclitaxel sensitivity in breast cancer: therapeutic implications. Baselga J, et al. **Oncology (Huntingt)** 1997 Mar;11(3 Suppl 2):43-8 (47 ref.)

Expression of the antiapoptotic protein bcl-2 is not dependent on the tumor suppressor p53 protein in Indian breast carcinoma. Kesari AL, et al. **Pathobiology** 1997; 65(2):108-12

Spindle cell carcinoma of the breast: a case report and an immunohistochemical study including p53 and Ki-67 expression. Nakayama Y, et al. **Pathol Int** 1997 Jun; 47(6):404-11

Expression of sialyl-Tn in breast cancer. Correlation with prognostic parameters. Soares R, et al. **Pathol Res Pract** 1996 Dec;192(12):1181-6

High level expression of p27(kip1) and cyclin D1 in some human breast cancer cells: inverse correlation between the expression of p27(kip1) and degree of malignancy in human breast and colorectal cancers. Fredersdorf S, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6380-5

Regulation of IGFBP-3 expression in breast cancer cells and uterus by estradiol and antiestrogens: correlations with effects on proliferation: a review. Hung H, et al. **Prog Growth Factor Res** 1995;6(2-4):495-501 (33 ref.)

Hydroxylated polychlorinated biphenyl metabolites are anti-estrogenic in a stably transfected human breast adenocarcinoma (MCF7) cell line. Kramer VJ, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):363-76

E-cadherin (E-cad) expression in duct carcinoma in situ (DCIS) of the breast. Gupta SK, et al. **Virchows Arch** 1997 Jan;430(1):23-8

Loss of E-cadherin expression associated with lymph node metastases in small breast carcinomas. Hunt NC, et al. **Virchows Arch** 1997 Apr;430(4):285-9

MIB-1 expression in breast carcinomas with medullary features. An immunohistological study including correlations with p53 and bcl-2. Jensen V, et al. **Virchows Arch** 1997 Aug;431(2):125-30

[Diagnostic algorithm for the evaluation of estrogen receptor function in breast carcinoma] Kolář Z. **Cesk Patol** 1997 Feb;33(1):4-8 (Eng. Abstr.) **(Cze)**

[Immunoenzymatic assays of c-erbB-2 oncoprotein and epidermal growth factor receptor in breast cancer: correlation with clinical and biological parameters] Métayé T, et al. **Ann Biol Clin (Paris)** 1996;54(3-4):131-8 (Eng. Abstr.) **(Fre)**

[Cytotoxicity of tamoxifen and its principal metabolites in human breast cancer cell lines] Bachmann-Moisson N, et al. **Bull Cancer** 1996 Oct;83(10):808-15 (37 ref.) (Eng. Abstr.) **(Fre)**

[Two-dimensional electrophoresis of proteins from breast cancer cells MCF-7. Changes in synthesis induced by FGF-2] Hondermarck H, et al. **Bull Cancer** 1996 Oct; 83(10):837-41 (Eng. Abstr.) **(Fre)**

[Proteoglycans and breast cancer] Delehedde M, et al. **Pathol Biol (Paris)** 1997 Apr;45(4):305-11 (57 ref.) (Eng. Abstr.) **(Fre)**

[Biotransformation of phenazone and sulfadimidine as markers of liver metabolism of drug and xenobiotic oxidation and acetylation in women with breast cancer] Orzechowska-Juzwenko K, et al. **Przegl Lek** 1997; 54(2):103-6 (Eng. Abstr.) **(Pol)**

[Correlation of lymphocytic infiltration of tumor tissue with the hormonal and metabolic state in patients with breast cancer] Bershteĭn LM, et al. **Vopr Onkol** 1996;42(5):36-9 (Eng. Abstr.) **(Rus)**

[Expression of pS2 protein in breast cancer and its relationship with estrogen and progesterone receptors] Diez Gibert O, et al. **Med Clin (Barc)** 1996 Jun 15; 107(3):90-2 (Eng. Abstr.) **(Spa)**

[Breast cancer: comparison between biochemical and immunohistochemical determination of estrogen receptors] Roa JC, et al. **Rev Med Chil** 1996 Mar;124(3):307-12 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Disseminated nocardiosis in a metastatic breast cancer patient. Drumea K, et al. **Tumori** 1997 Mar-Apr; 83(2):621-2

MORTALITY

Breast cancer--a challenge to the contemporary paradigm. Baum M. **Acta Oncol** 1996;35 Suppl 8:3-6

Breast cancer as cause of death--a study over the validity of the officially registered cause of death in 2631 breast cancer patients dying in Malmö, Sweden 1964-1992. Garne JP, et al. **Acta Oncol** 1996;35(6):671-5

Overview on human breast cancer with focus on prognostic and predictive factors with special attention on the tumour suppressor gene p53. Norberg T, et al. **Acta Oncol** 1996; 35 Suppl 5:96-102 (60 ref.)

Predictive factors for response to cytotoxic treatment in advanced breast cancer: a review. Sjöström J, et al. **Acta Oncol** 1996;35 Suppl 5:84-90 (42 ref.)

Multivariate statistical analysis for anatomic pathology. Part II: failure time analysis. Vollmer RT. **Am J Clin Pathol** 1996 Oct;106(4):522-34 (16 ref.)

Diethylstilbestrol and risk of fatal breast cancer in a prospective cohort of US women. Calle EE, et al. **Am J Epidemiol** 1996 Oct 1;144(7):645-52

Breast cancer clusters in the northeast United States: a geographic analysis. Kulldorff M, et al. **Am J Epidemiol** 1997 Jul 15;146(2):161-70

Racial differences in breast cancer survival: the interaction of socioeconomic status and tumor biology. Simon MS, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S233-9

Recent trends in breast cancer mortality among white and black US women. Chevarley F, et al. **Am J Public Health** 1997 May;87(5):775-81

Socioeconomic status and breast cancer mortality, 1989 through 1993: an analysis of education data from death certificates. Heck KE, et al. **Am J Public Health** 1997 Jul; 87(7):1218-22

Comorbidity and breast cancer survival: a comparison between black and white women. West DW, et al. **Ann Epidemiol** 1996 Sep;6(5):413-9

Fatalism and breast cancer in black women [letter; comment] Conrad ME, et al. **Ann Intern Med** 1996 Dec 1; 125(11):941-2. Comment on: Ann Intern Med 1996 May 15;124(10):897-905.

Carcinoma of the male breast: analysis of prognosis compared with matched female patients. Borgen PI, et al. **Ann Surg Oncol** 1997 Jul-Aug;4(5):385-8

Effects of race and socioeconomic status on survival of women with breast cancer [editorial; comment] Cady B. **Ann Surg Oncol** 1997 Mar;4(2):102-3. Comment on: Ann Surg Oncol 1997 Mar;4(2):111-8.

Effects of race and socioeconomic status on survival of 1,332 black, Hispanic, and white women with breast cancer [see comments] Franzini L, et al. **Ann Surg Oncol** 1997 Mar; 4(2):111-8. Comment in: Ann Surg Oncol 1997 Mar;4(2):102-3.

Impact of extensive intraductal component on recurrence and survival in patients with stage I or II breast cancer treated with breast conservation therapy. Hurd TC, et al. **Ann Surg Oncol** 1997 Mar;4(2):119-24

Multivariate analysis of DNA ploidy, p53, c-erbB-2 proteins, EGFR, and steroid hormone receptors for prediction of poor short term prognosis in breast cancer. Eissa S, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1417-23

Stratified multivariate analysis of prognostic markers in breast cancer: a preliminary report. Younes M, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1383-90

Breast cancer five-year survival in New South Wales women, 1972 to 1991. Taylor R, et al. **Aust N Z J Public Health** 1997 Apr;21(2):199-205

Breast cancer five-year survival, by New South Wales regions, 1980 to 1991. Taylor R. **Aust N Z J Public Health** 1997 Apr;21(2):206-10

Breast cancer in Western Australia in 1989. V: Outcome at 5 years after diagnosis. Stevenson JM, et al. **Aust N Z J Surg** 1997 May;67(5):250-5

Support and treatment of serious comorbidity also improve survival in breast cancer [letter; comment] Nab HW, et al. **BMJ** 1997 Jul 19;315(7101):191. Comment on: BMJ 1997 Feb 15;314(7079):472-5.

Retrospective study of reasons for improved survival in patients with breast cancer in east Anglia: earlier diagnosis or better treatment [published erratum appears in BMJ 1997 Mar 8;314(7082):721] [see comments] Stockton D, et al. **BMJ** 1997 Feb 15;314(7079):472-5. Comment in: BMJ 1997 Jul 19;315(7101):191.

A population-based survival study on female breast cancer in Madras, India. Gajalakshmi CK, et al. **Br J Cancer** 1997; 75(5):771-5

Cautionary tales of survival analysis: conflicting analyses from a clinical trial in breast cancer. Gregory WM, et al. **Br J Cancer** 1997;76(4):551-8

Social class and weight as prognostic factors in early breast cancer. Haybittle J, et al. **Br J Cancer** 1997;75(5):729-33

Geographical variation in the standardized years of potential life lost ratio (SYPLR) in women dying from malignancies of the breast in England and Wales. Yuen P, et al. **Br J Cancer** 1997;75(7):1069-74

Breast self-examination and survival from breast cancer: a prospective follow-up study. Auvinen A, et al. **Breast Cancer Res Treat** 1996;38(2):161-8

Breast cancer mortality in relation to self-reported use of breast self-examination. A cohort study of 450,000 women. Holmberg L, et al. **Breast Cancer Res Treat** 1997 Apr; 43(2):137-40

Pre-morbid body-mass-index in breast cancer: reversed effect on survival in hormone receptor negative patients. Maehle BO, et al. **Breast Cancer Res Treat** 1996; 41(2):123-30

Validation of existing and development of new prognostic classification schemes in node negative breast cancer. German Breast Cancer Study Group. Sauerbrei W, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):149-63

Artificial neural networks improve the accuracy of cancer survival prediction. Burke HB, et al. **Cancer** 1997 Feb 15; 79(4):857-62

Increasing incidence of and declining mortality from breast carcinoma. Trends in Malmö, Sweden, 1961-1992 [see comments] Garne JP, et al. **Cancer** 1997 Jan 1;79(1):69-74 . Comment in: Cancer 1997 Jan 1;79(1):1-2.

Effects of medical and psychotherapeutic treatment on the survival of women with metastatic breast carcinoma. Kogon MM, et al. **Cancer** 1997 Jul 15;80(2):225-30

Younger women with breast carcinoma have a poorer prognosis than older women [letter; comment] Lemon HM, et al. **Cancer** 1996 Oct 1;78(7):1517-8. Comment on: Cancer 1996 Jan 1;77(1):97-103.

Family history and survival of young women with invasive breast carcinoma. Malone KE, et al. **Cancer** 1996 Oct 1; 78(7):1417-25

Benefits versus risks from mammography. A critical reassessment [letter; comment] Moss S, et al. **Cancer** 1997 Feb 1;79(3):628-9. Comment on: Cancer 1996 Mar 1;77(5):903-9.

Breast carcinoma mortality rates and screening [editorial; comment] Moss SM. **Cancer** 1997 Jan 1;79(1):1-2. Comment on: Cancer 1997 Jan 1;79(1):69-74.

Childbearing issues in breast carcinoma survivors. Surbone A, et al. **Cancer** 1997 Apr 1;79(7):1271-8 (62 ref.)

Younger women with breast carcinoma have a poorer prognosis than older women [letter; comment] Vollmer RT. **Cancer** 1996 Oct 1;78(7):1518-9. Comment on: Cancer 1996 Jan 1;77(1):97-103.

Hormone replacement therapy and early clinical appearance of low grade breast cancer [letter; comment] Berrino F, et al. **Cancer Causes Control** 1997 Jul;8(4):672; discussion 673. Comment on: Cancer Causes Control 1996 Jul;7(4):449-57.

Estrogen replacement therapy and risk of fatal breast cancer in a prospective cohort of postmenopausal women in the United States [see comments] Willis DB, et al. **Cancer Causes Control** 1996 Jul;7(4):449-57. Comment in: Cancer Causes Control 1997 Jul;8(4):672; discussion 673.

Breast cancer survival among New Mexico Hispanic, American Indian, and non-Hispanic white women (1973-1992). Frost F, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):861-6

Race and survival from breast cancer: based on Cancer and Leukemia Group B trial 8541 [see comments] Roach M 3rd, et al. **Cancer J Sci Am** 1997 Mar-Apr;3(2):107-12. Comment in: Cancer J Sci Am 1997 Mar-Apr;3(2):76-7.

Lack of prognostic value of cathepsin D levels for predicting short term outcomes of breast cancer patients. Ravdin PM, et al. **Cancer Lett** 1997 Jun 24;116(2):177-83

Impact of pregnancy on non-metastatic breast cancer: a case control study. Ezzat A, et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):367-70

Parental age and breast cancer mortality [letter; comment] Jongbloet PH, et al. **Epidemiology** 1996 May;7(3):330-1. Comment on: Epidemiology 1995 Jul;6(4):425-7.

Menstrual patterns and breast cancer mortality in a large U.S. cohort. Michels-Blanck H, et al. **Epidemiology** 1996 Sep;

7(5):543–6
Effect of age on the survival of breast cancer patients. Holli K, et al. **Eur J Cancer** 1997 Mar;33(3):425–8
The evolution of breast cancer mortality and morbidity in Spain (1977–1988). Morales Suarez-Varela MM, et al. **Eur J Epidemiol** 1996 Aug;12(4):351–8
Mortality trends and past and current dietary factors of breast cancer in Spain. Prieto-Ramos F, et al. **Eur J Epidemiol** 1996 Apr;12(2):141–8
The connection between the psychological condition of breast cancer patients and survival. A follow-up after eight years. Gilbar O. **Gen Hosp Psychiatry** 1996 Jul;18(4):266–70
Time series analysis supporting the hypothesis that enhanced cosmic radiation during germ cell formation can increase breast cancer mortality in germ cell cohorts. Juckett DA, et al. **Int J Biometeorol** 1997 Jun;40(4):206–21
Overall survival from breast cancer in women pregnant or lactating at or after diagnosis. Auckland Breast Cancer Study Group. Lethaby AE, et al. **Int J Cancer** 1996 Sep 17;67(6):751–5
Breast-cancer mortality in a non-randomized trial on mammographic screening in women over age 65. Van Dijck JA, et al. **Int J Cancer** 1997 Jan 17;70(2):164–8
The effect of body mass index and oestrogen receptor level on survival of breast cancer patients. Newman SC, et al. **Int J Epidemiol** 1997 Jun;26(3):484–90
Locoregional recurrence of breast cancer following mastectomy: always a fatal event? Results of univariate and multivariate analysis. Willner J, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):853–63
The importance of histologic type on breast cancer survival. Northridge ME, et al. **J Clin Epidemiol** 1997 Mar; 50(3):283–90
Excess mortality from breast cancer in relation to mammography screening in northern Sweden. Lenner P, et al. **J Med Screen** 1997;4(1):6–9
Randomized clinical trial of breast irradiation following lumpectomy and axillary dissection for node-negative breast cancer: an update. Ontario Clinical Oncology Group. Clark RM, et al. **J Natl Cancer Inst** 1996 Nov 20; 88(22):1659–64
Racial/ethnic differences in breast cancer survival among San Francisco Bay Area women. Hsu JL, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1311–2
Age, cohort-of-birth, and period-of-death trends in breast cancer mortality in Europe [letter] La Vecchia C, et al. **J Natl Cancer Inst** 1997 May 21;89(10):732–4
Birth cohort and calendar period trends in breast cancer mortality in the United States and Canada. Tarone RE, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):251–6
Fibrotic focus in invasive ductal carcinoma of the breast: a histopathological prognostic parameter for tumor recurrence and tumor death within three years after the initial operation. Hasebe T, et al. **Jpn J Cancer Res** 1997 Jun;88(6):590–9
Prognostic factors and survival analysis of invasive ductal carcinoma of the breast in Bandung, Indonesia. Hernowo BS, et al. **Kobe J Med Sci** 1995 Aug;41(4):95–112
Longitudinal analysis of mortality from breast cancer in Japan, 1950–1993: fitting Gompertz and Weibull functions. Imaizumi Y. **Mech Ageing Dev** 1996 Jul 17;88(3):169–83
Survival of women with node negative breast cancer in the Auckland region. Lethaby AE, et al. **N Z Med J** 1996 Sep 13;109(1029):330–3
NCI reports improvement in breast cancer death rate [news] **Oncology (Huntingt)** 1996 Jun;10(6):785–6
Interaction of tamoxifen's impact on overall net mortality and quality of life. Ragaz J. **Oncology (Huntingt)** 1997 Feb; 11(2 Suppl 1):45–8 (22 ref.)
Methods to identify benefit from mammographic screening of women aged 40–49 years [editorial; comment] Feig SA. **Radiology** 1996 Nov;201(2):309–16. Comment on: Radiology 1996 Nov;201(2):421–6.
Breast cancer survival rates with mammographic screening: similar favorable survival rates for women younger and those older than 50 years [see comments] Thurfjell EL, et al. **Radiology** 1996 Nov;201(2):421–6. Comment in: Radiology 1996 Nov;201(2):309–16.
Breast-screening brawl [letter; comment] Kopans DB. **Science** 1997 Mar 21;275(5307):1721–4. Comment on: Science 1997 Feb 21;275(5303):1056–9.
Breast-screening brawl [letter; comment] Sowinski J. **Science** 1997 Mar 21;275(5307):1721. Comment on: Science 1997 Feb 21;275(5303):1056–9. Comment on: Science 1997 Mar 14;275(5306):1549.
The breast-screening brawl [news] [see comments] [published erratum appears in Science 1997 Jun 6;276(5318):1485] Taubes G. **Science** 1997 Feb 21;275(5303):1056–9. Comment in: Science 1997 Mar 14;275(5306):1549. Comment in: Science 1997 Mar 21;275(5307):1721. Comment in: Science 1997 Mar 21;275(5307):1721–4.
Correlation of menstrual cycle at time of breast cancer surgery to disease-free and overall survival. Vanek VW, et al. **South Med J** 1997 Aug;90(8):780–8
Cluster analysis with constraints: its use with breast cancer mortality rates in Argentina. Wojdyla D, et al. **Stat Med** 1996 Apr 15–May 15;15(7–9):741–6
Long-term survival of breast cancer in Norway by age and clinical stage. Zahl PH, et al. **Stat Med** 1997 Jul 15; 16(13):1435–49
Ten-year survival and age at diagnosis of women with breast cancer from a population-based study in Umbria, Italy. La Rosa F, et al. **Tumori** 1996 Sep–Oct;82(5):441–3
Expression of the PIP/GCDFP-15 gene and survival in breast cancer. Hähnel R, et al. **Virchows Arch** 1996 Dec; 429(6):365–9
Trends in breast cancer mortality for blacks and whites in Wisconsin and the United States, 1979–1992. Palmersheim K, et al. **Wis Med J** 1996 Apr;95(4):245–7
Breast cancer incidence and mortality in Milwaukee's North Shore communities [see comments] Remington PL, et al. **Wis Med J** 1997 Mar;96(3):46–7. Comment in: Wis Med J 1997 Mar;96(3):12.
[Significance of roentgen mammography for breast carcinoma screening] Schulz-Wendtland R, et al. **Rontgenpraxis** 1997 May;50(5):103–9 (65 ref.) **(Ger)**
[The time of intramammary recurrence after breast-preserving therapy is decisive for patient prognosis] Fietkau R. **Strahlenther Onkol** 1996 Dec;172(12):696–7 **(Ger)**
[Increasing incidence and declining mortality in breast carcinoma] Sack H. **Strahlenther Onkol** 1997 Jul; 173(7):388–9 **(Ger)**
[Does tamoxifen have a negative effect on survival chances of premenopausal women with locoregional recurrence of breast carcinoma?] Sauer H. **Strahlenther Onkol** 1997 Jul; 173(7):390 **(Ger)**
[Recent prognostic factors for breast cancer] Ikeda T. **Gan To Kagaku Ryoho** 1997 Apr;24(6):635–43 (50 ref.) (Eng. Abstr.) **(Jpn)**
[Preliminary results of the Russia (St.Petersburg)/WHO program for the evaluation of the effectiveness of breast self-examination] Semiglazov VF, et al. **Vopr Onkol** 1996; 42(4):49–55 (Eng. Abstr.) **(Rus)**
[Postoperative hormone therapy of breast cancer (analysis of overall survival)] Semiglazov VF, et al. **Vopr Onkol** 1996;42(6):37–42 (Eng. Abstr.) **(Rus)**
[Income, percent of women living in rural areas, parity, and breast cancer mortality in Spain, 1975–1991] Vioque J, et al. **Med Clin (Barc)** 1997 Jan 18;108(2):41–4 (Eng. Abstr.) **(Spa)**

NURSING

Routine follow up of breast cancer in primary care. More use should be made of specialist nurses [letter; comment] Kunkler I, et al. **BMJ** 1996 Dec 14;313(7071):1547–8. Comment on: BMJ 1996 Sep 14;313(7058):665–9.
Consistency of patient information ... is this happening? Harris RL. **Cancer Nurs** 1997 Aug;20(4):274–6
Informational needs of women with a recent diagnosis of breast cancer: development and initial testing of a tool. Galloway S, et al. **J Adv Nurs** 1997 Jun;25(6):1175–83
A study to ascertain gynaecological patients' perceived levels of embarrassment with physical and psychological care given by female and male nurses. Lodge N, et al. **J Adv Nurs** 1997 May;25(5):893–907
Effects of exercise on fatigue, physical functioning, and emotional distress during radiation therapy for breast cancer. Mock V, et al. **Oncol Nurs Forum** 1997 Jul; 24(6):991–1000

PATHOLOGY

Interactive MR-guided, 14-gauge core-needle biopsy of enhancing lesions in a breast phantom mode. Daniel BL, et al. **Acad Radiol** 1997 Jul;4(7):508–12
Detection of breast cancer at a smaller size can reduce the likelihood of metastatic spread: a quantitative analysis. Sivaramakrishna R, et al. **Acad Radiol** 1997 Jan;4(1):8–12
Small cell neuroendocrine carcinoma: cytologic findings in a breast aspirate [letter] Ali SZ, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1237–40
Cytologic grading of fine needle aspirates of breast carcinoma by private practice pathologists. Cajulis RS, et al. **Acta Cytol** 1997 Mar-Apr;41(2):313–20
MIB-1 (Ki-67) immunostaining of breast cancer cells in cytologic smears. Dalquen P, et al. **Acta Cytol** 1997 Mar-Apr;41(2):229–37 (44 ref.)
Metastases to the breast from extramammary neoplasms. A report of six cases with diagnosis by fine needle aspiration cytology. Domanski HA. **Acta Cytol** 1996 Nov-Dec; 40(6):1293–300
Fine needle aspiration of breast masses. An analysis of 1,398 patients in a community hospital. Domínguez F, et al. **Acta Cytol** 1997 Mar-Apr;41(2):341–7
Breast cytology. Statistical analysis and cytohistologic correlations. Feichter GE, et al. **Acta Cytol** 1997 Mar-Apr; 41(2):327–32
The problematic interpretation of foamy cells in breast fine needle aspirates. A report of two cases. Gottschalk-Sabag S, et al. **Acta Cytol** 1997 Mar-Apr;41(2):561–4
Cytologic features of ductal and lobular carcinoma in fine needle aspirates of the breast. Greeley CF, et al. **Acta Cytol** 1997 Mar-Apr;41(2):333–40
Fine needle aspiration cytology of tubular carcinoma of the breast. Gupta RK, et al. **Acta Cytol** 1997 Jul-Aug; 41(4):1139–43
Fine needle aspiration cytodiagnosis of primary and metastatic squamous cell carcinoma of the breast. Gupta RK. **Acta Cytol** 1997 May-Jun;41(3):692–6
Cytology of glycogen-rich (clear cell) carcinoma of the breast. A report of two cases. Kern SB, et al. **Acta Cytol** 1997 Mar-Apr;41(2):556–60
Fine needle aspiration cytology of cystic hypersecretory carcinoma of the breast. A case report. Kim MK, et al. **Acta Cytol** 1997 May-Jun;41(3):892–6
Criteria for reporting fine needle aspiration on palpable and nonpalpable masses of the breast [editorial] Logrono R, et al. **Acta Cytol** 1997 May-Jun;41(3):623–7
Diagnosis of fibroadenoma in breast fine needle aspirates devoid of typical stroma. Malberger E, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1483–8
Metastatic lobular carcinoma of the breast diagnosed in cervicovaginal samples. A case report. Mallow DW, et al. **Acta Cytol** 1997 Mar-Apr;41(2):549–55
Fine needle aspiration biopsy of breast carcinoma in pregnancy and lactation. Mitre BK, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1121–30
Cytologic nuclear grade of malignant breast aspirates as a predictor of histologic grade. Light microscopy and image analysis characteristics. Moroz K, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1107–11
Fine needle aspiration cytology of palpable breast lesions. Histologic subtype in false negative cases. Park IA, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1131–8
Fine needle aspiration biopsy of breast lesions and histopathologic correlation. An analysis of 837 cases in four years. Rocha PD, et al. **Acta Cytol** 1997 May-Jun; 41(3):705–12
Metastatic lobular carcinoma of the breast in a cervical-vaginal smear [letter] Vadmal M, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1236–7
Cytohistologic correlation of nuclear grade in breast carcinoma. Zoppi JA, et al. **Acta Cytol** 1997 May-Jun; 41(3):701–4
Locally recurring primary myxoma of the breast: an evidence of malignant alteration. Rudan I, et al. **Acta Med Croatica** 1996;50(4–5):209–11
Differences between male and female breast cancer. II. Clinicopathologic features. Rudan I, et al. **Acta Med Croatica** 1997;51(3):129–33
Differences between male and female breast cancer. III. Prognostic features. Rudan I, et al. **Acta Med Croatica** 1997; 51(3):135–41
Development of syndrome of inappropriate secretion of antidiuretic hormone during progression of metastatic breast cancer. Andersen MK, et al. **Acta Oncol** 1997; 36(5):535–7
Long-term prognostic impact of immunohistochemical estrogen receptor determinations compared with biochemical receptor determination in primary breast cancer. Blomqvist C, et al. **Acta Oncol** 1997;36(5):530–2
Efficacy of pamidronate in breast cancer with bone metastases: a randomized double-blind placebo controlled multicenter study. Hultborn R, et al. **Acta Oncol** 1996;35 Suppl 5:73–4
Rationale for the use of bisphosphonates in breast cancer. Kanis JA. **Acta Oncol** 1996;35 Suppl 5:61–7 (32 ref.)
Detection of occult tumour cells in bone marrow and blood in breast cancer patients—methods and clinical significance. Kvalheim G. **Acta Oncol** 1996;35 Suppl 8:13–8 (31 ref.)
Ki-67, p53, Er-receptors, ploidy and S-phase as prognostic factors in T1 node negative breast cancer. Railo M, et al. **Acta Oncol** 1997;36(4):369–74
Induction chemotherapy with versus without hormonal synchronisation in locally advanced breast cancer. Sjövall MP, et al. **Acta Oncol** 1997;36(2):207–12
Analgesic effect of bisphosphonates on bone pain in breast cancer patients: a review article. Strang P. **Acta Oncol** 1996; 35 Suppl 5:50–4 (30 ref.)
20-Epi-vitamin D3 analogs. Potent modulators of proliferation and differentiation of breast cancer cell lines in vitro. Elstner E, et al. **Adv Exp Med Biol** 1996;399:53–70
Stromal-epithelial cell interactions in breast cancer. Heber D, et al. **Adv Exp Med Biol** 1996;399:41–51 (69 ref.)
The role of the sentinel lymph node in the management of patients with breast cancer. Statman R, et al. **Adv Surg** 1996;30:209–21 (56 ref.)
Re: Core needle biopsy of synchronous ipsilateral breast lesions [letter; comment] Hall FM. **AJR Am J Roentgenol** 1997 Mar;168(3):843–4. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1429–32.
Impact of core biopsy on the surgical management of impalpable breast cancer. Liberman L, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):495–9
Staging of symptomatic primary breast cancer with MR imaging. Mumtaz H, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):417–24
Fibromatosis of the breast diagnosed by stereotaxic core biopsy [letter] Shuler FJ, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):846–7
Detection with MR imaging of residual tumor in the breast soon after surgery [see comments] Soderstrom CE, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):485–8. Comment in: AJR Am J Roentgenol 1997 Sep;169(3):909–10.
Axillary lymph nodes: mammographic, pathologic, and clinical correlation. Walsh R, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):33–8
A case of inflammatory breast cancer [letter; comment] Ostergaard CA, et al. **Am Fam Physician** 1996 Oct; 54(5):1470, 1473. Comment on: Am Fam Physician 1995 Sep 1;52(3):929–34.
Factors influencing the distribution of metastases and survival in metastatic breast carcinoma. Barişta I, et al. **Am J Clin Oncol** 1996 Dec;19(6):569–73
Activity of combination chemotherapy in brain metastases

from breast and lung adenocarcinoma. Colleoni M, et al. **Am J Clin Oncol** 1997 Jun;20(3):303–7

Plasma membrane phosphotyrosine, Her2–NEU, and epidermal growth factor receptor in human breast cancer. A comparative study. Heffelfinger SC, et al. **Am J Clin Oncol** 1996 Dec;19(6):552–7

Quantitative immunocytochemical assays on frozen sections of p53: correlation to the follow–up of patients with breast carcinomas. Charpin C, et al. **Am J Clin Pathol** 1996 Nov; 106(5):640–6

Cancerization of small ectatic ducts of the breast by ductal carcinoma in situ cells with apocrine snouts: a lesion associated with tubular carcinoma. Goldstein NS, et al. **Am J Clin Pathol** 1997 May;107(5):561–6

Intraductal carcinoma associated with invasive carcinoma of the breast. A comparison of the two lesions with implications for intraductal carcinoma classification systems. Goldstein NS, et al. **Am J Clin Pathol** 1996 Sep; 106(3):312–8

An unusual, recurring breast tumor with features of eccrine spiradenoma: a case report. Panico L, et al. **Am J Clin Pathol** 1996 Nov;106(5):665–9

Mammary myofibroblastoma with leiomyomatous differentiation. Thomas TM, et al. **Am J Clin Pathol** 1997 Jan;107(1):52–5

The hybrid epidermoid and apocrine cyst. A combination of apocrine hidrocystoma and epidermal inclusion cyst. Andersen WK, et al. **Am J Dermatopathol** 1996 Aug; 18(4):364–6

Epidermotropically metastatic breast carcinomas. Rare histopathologic variants mimicking melanoma and Paget's disease. Requena L, et al. **Am J Dermatopathol** 1996 Aug; 18(4):385–95

Differential sensitivity of estrogen/progesterone receptors and BRST–2 markers in metastatic ductal and lobular breast carcinoma to the skin. Wallace ML, et al. **Am J Dermatopathol** 1996 Jun;18(3):241–7

Severe obesity as an explanatory factor for the black/white difference in stage at diagnosis of breast cancer. Jones BA, et al. **Am J Epidemiol** 1997 Sep 1;146(5):394–404

Metastatic breast carcinoma presenting as obstructive jaundice. Papo M, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2240–1

Metastatic breast cancer masquerading as sarcoidosis. Urschel JD, et al. **Am J Med Sci** 1997 Aug;314(2):124–5

Establishment of breast cell cultures and lines from peoples of African origin. Ochieng J, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S240–5

Characteristics of antigens from an HCG alpha secreting cell line (ElCo) derived from human breast carcinoma in a Native American patient. Pattillo RA, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S246–54

Analysis of estrogen receptor messenger RNA in breast carcinomas from archival specimens is predictive of tumor biology. Carmeci C, et al. **Am J Pathol** 1997 May; 150(5):1563–70

Experimental co–expression of vimentin and keratin intermediate filaments in human breast cancer cells results in phenotypic interconversion and increased invasive behavior. Hendrix MJ, et al. **Am J Pathol** 1997 Feb; 150(2):483–95

Expression of the G2–M checkpoint regulators cyclin B1 and cdc2 in nonmalignant and malignant human breast lesions: immunocytochemical and quantitative image analyses. Kawamoto H, et al. **Am J Pathol** 1997 Jan; 150(1):15–23

WAF1/Cip1 gene polymorphism and expression in carcinomas of the breast, ovary, and endometrium. Lukas J, et al. **Am J Pathol** 1997 Jan;150(1):167–75

Cyclin D1 expression in invasive breast cancer. Correlations and prognostic value. van Diest PJ, et al. **Am J Pathol** 1997 Feb;150(2):705–11

Stearate inhibition of breast cancer cell proliferation. A mechanism involving epidermal growth factor receptor and G–proteins. Wickramasinghe NS, et al. **Am J Pathol** 1996 Mar;148(3):987–95

Stereotactic excisional breast biopsies utilizing the advanced breast biopsy instrumentation system. D'Angelo PC, et al. **Am J Surg** 1997 Sep;174(3):297–302

T1 breast carcinoma in women 70 years of age and older may not require axillary lymph node dissection. Feigelson BJ, et al. **Am J Surg** 1996 Nov;172(5):487–9; discussion 489–90

Breast involvement by extranodal Rosai–Dorfman disease: report of seven cases. Green I, et al. **Am J Surg Pathol** 1997 Jun;21(6):664–8

A comparative study of pure tubular and tubulolobular carcinoma of the breast. Green I, et al. **Am J Surg Pathol** 1997 Jun;21(6):653–7

Epithelioid angiosarcoma of the breast. Clinicopathological, immunohistochemical, and ultrastructural study of a case. Macías–Martínez V, et al. **Am J Surg Pathol** 1997 May; 21(5):599–604

Myofibrosarcoma of the breast: review of the literature on myofibroblastic tumors and criteria for defining myofibroblastic differentiation [published erratum appears in Am J Surg Pathol 1997 Jun;21(6):742] Taccagni G, et al. **Am J Surg Pathol** 1997 Apr;21(4):489–96 (27 ref.)

Traditional and future management of nonpalpable breast cancer. Cady B. **Am Surg** 1997 Jan;63(1):55–8 (24 ref.)

Stereotaxic localization and core needle biopsy of nonpalpable breast lesions: two–year follow–up of a prospective study. Head JF, et al. **Am Surg** 1996 Dec; 62(12):1018–23

The impact of image–directed core biopsy on the practice of breast surgery: a new algorithm for a changing technology. Stolier AJ, et al. **Am Surg** 1997 Sep; 63(9):827–30

Solitary breast metastasis to the ampulla and distal common bile duct. Titus AS, et al. **Am Surg** 1997 Jun;63(6):512–5

T1a and T1b breast cancer: a twelve–year experience. Visser TJ, et al. **Am Surg** 1997 Jul;63(7):621–6

Axillary lymph node metastasis in stage T1a breast cancer: a pathologic review of 82 patients. Whitten TM, et al. **Am Surg** 1997 Feb;63(2):144–9

Nuclear areas in breast cancer: relationship with estrogen and progesterone receptor expression. Maiorana A, et al. **Anal Cell Pathol** 1996 Aug;11(3):199–209

Evaluation of the reproducibility of Auer's classification of DNA histogram in breast carcinoma. Verderio P, et al. **Anal Cell Pathol** 1996 Jul;11(2):97–106

Prognostic value from DNA quantification by static cytometry in breast cancer. Azúa J, et al. **Anal Quant Cytol Histol** 1997 Feb;19(1):80–6

Potential use of image analysis for the evaluation of cellular predicting factors for therapeutic response in breast cancers. Bacus S, et al. **Anal Quant Cytol Histol** 1997 Aug; 19(4):316–28 (71 ref.)

Morphometric determination of AgNORs in breast carcinoma. Correlation with flow cytometry and proliferating cell nuclear antigen. Bellotti M, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):139–44

Effect of ultrafast Papanicolaou staining on nuclear and textural features in breast cancer cytology. Einstein AJ, et al. **Anal Quant Cytol Histol** 1997 Aug;19(4):361–7

Nuclear morphometry in node–negative breast carcinoma. Giardina C, et al. **Anal Quant Cytol Histol** 1996 Oct; 18(5):374–82

AgNOR evaluation by image processing methods. Staining modifications and results in 126 invasive ductal breast carcinomas. Giménez–Mas JA, et al. **Anal Quant Cytol Histol** 1996 Feb;18(1):9–18

Cellular sociology of proliferating tumor cells in invasive ductal breast cancer. Haroske G, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):191–8

Breast carcinoma. Correlations between visual diagnostic criteria for histologic grading and features of image analysis. Tuczek HV, et al. **Anal Quant Cytol Histol** 1996 Dec;18(6):481–93

Difficulty of obtaining wide tumour to deep fascial margins in Asian women with breast cancers: implications on treatment and prognosis. Ng EH, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):241–4

Breast lymphoma––a pathologic study of 14 cases. Tan PH, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):783–90 (22 ref.)

Isolated granulocytic sarcoma of the breast [letter] Doval DC, et al. **Ann Oncol** 1996 Apr;7(4):424–5

Combined doxorubicin and paclitaxel in advanced breast cancer: effective and cardiotoxic. Gehl J, et al. **Ann Oncol** 1996 Sep;7(7):687–93

Clubbing, arthralgia and haemoptysis in a patient with metastatic carcinoma of the breast [letter] Gregory RK, et al. **Ann Oncol** 1996 Sep;7(7):756–7 (4 ref.)

Paclitaxel and vinorelbine in anthracycline–pretreated breast cancer: a phase II study. Michelotti A, et al. **Ann Oncol** 1996 Oct;7(8):857–60

Clinical significance of cyclin D1 expression in patients with node–positive breast carcinoma treated with adjuvant therapy. Pelosio P, et al. **Ann Oncol** 1996 Sep;7(7):695–703

Low–dose continuous intravenous infusion of 5–fluorouracil for metastatic breast cancer [see comments] Regazzoni S, et al. **Ann Oncol** 1996 Oct;7(8):807–13. Comment in: Ann Oncol 1996 Oct;7(8):771.

Adjuvant cyclophosphamide, methotrexate and fluorouracil in node–negative and estrogen receptor–negative breast cancer. Updated results. Zambetti M, et al. **Ann Oncol** 1996 Jul;7(5):481–5

Routine contralateral breast biopsy: helpful or irrelevant? Experience in 871 patients, 1979–1993. Cody HS 3rd. **Ann Surg** 1997 Apr;225(4):370–6 (33 ref.)

Association of breast cancer with the finding of atypical ductal hyperplasia at core breast biopsy. Moore MM, et al. **Ann Surg** 1997 Jun;225(6):726–31; discussion 731–3

No significant correlation between oncogene protein expression and nodal status [letter; comment] Noguchi M. **Ann Surg** 1996 Nov;224(5):686–8. Comment on: Ann Surg 1995 Jun;221(6):706–18; discussion 718–20.

Comparison of histologic diagnosis between stereotactic core needle biopsy and open surgical biopsy. Bauer RL, et al. **Ann Surg Oncol** 1997 Jun;4(4):316–20

Appropriate management of atypical ductal hyperplasia diagnosed by stereotactic core needle breast biopsy. Gadzala DE, et al. **Ann Surg Oncol** 1997 Jun;4(4):283–6

Impact of extensive intraductal component on recurrence and survival in patients with stage I or II breast cancer treated with breast conservation therapy. Hurd TC, et al. **Ann Surg Oncol** 1997 Mar;4(2):119–24

Squamous cell carcinoma of the breast: a clinical approach. Stevenson JT, et al. **Ann Surg Oncol** 1996 Jul;3(4):367–74

Heat shock protein 27 overexpression in breast cancer lymph node metastasis. Storm FK, et al. **Ann Surg Oncol** 1996 Nov;3(6):570–3

Pituitary gland metastases [letter] van Dongen JA. **Ann Surg Oncol** 1996 Nov;3(6):588

Bilaterality and recurrence rates for lobular breast cancer: considerations for treatment. Yeatman TJ, et al. **Ann Surg Oncol** 1997 Apr–May;4(3):198–202

Underlying pathology in mammary Paget's disease. Yim JH, et al. **Ann Surg Oncol** 1997 Jun;4(4):287–92

Camptothecin exhibits selective cytotoxicity towards human breast carcinoma as compared to normal bovine endothelial cells in vitro. Clements MK, et al. **Anticancer Drugs** 1996 Nov;7(8):851–7

Treatment of patients with liver metastases. Fumoleau P. **Anticancer Drugs** 1996 Aug;7 Suppl 2:21–3 (24 ref.)

Human breast cancer cell growth inhibition and deregulation of [Ca2+]i by estradiol. Jain PT, et al. **Anticancer Drugs** 1997 Mar;8(3):283–7

Antiproliferative effect of curcumin (diferuloylmethane) against human breast tumor cell lines. Mehta K, et al. **Anticancer Drugs** 1997 Jun;8(5):470–81

Cytometric prognostic parameters in breast cancer. Aubele M, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3085–7

Value of 18fluoro–deoxyglucose positron emission tomography in the staging of recurrent breast carcinoma. Bender H, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1687–92

The usefulness of technetium–99m–MIBI scintimammography in diagnosis of breast cancer: using surgical histopathologic diagnosis as the gold standard. Chen SL, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1695–8

Proliferative responses of normal human mammary and MCF–7 breast cancer cells to linoleic acid, conjugated linoleic acid and eicosanoid synthesis inhibitors in culture. Cunningham DC, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):197–203

New avenues in 3–D computerised (stereopathological) imaging of breast cancer (review). Davies JD, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3971–81 (96 ref.)

p53 protein expression in breast carcinomas. Comparative study with the wild type p53 induced proteins mdm2 and p21/waf1. Giannikaki E, et al. **Anticancer Res** 1997 May–Jun;17(3C):2123–7

Correlation of apoptosis with the distribution and composition of lymphocytic infiltrate in human breast carcinomas. Grekou AN, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3991–5

Thrombomodulin is a new biological and prognostic marker for breast cancer: an immunohistochemical study. Kim SJ, et al. **Anticancer Res** 1997 May–Jun;17(3C):2319–23

Prognostic value of nuclear grading assessed by image cytometry for node negative breast cancer patients. Kimijima I, et al. **Anticancer Res** 1996 Nov–Dec; 16(6C):3949–53

Benign and malignant stellate breast lesions: structural differences in 5 microns sections and thick tissue slices. Kulka J, et al. **Anticancer Res** 1996 Nov–Dec; 16(6C):3965–70

Nuclear grooves in fine needle aspiration (FNA) biopsies of breast lesions. Labropoulou P, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3959–63

Comparison of in vitro invasiveness of human breast carcinoma in early or late stage with their malignancy in vivo. Le Marer N, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):2767–72

Modulations of breast fibroblast and carcinoma cell interactions by a dextran derivative (CMDB7). Liu J, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):253–8

In vivo growth regulation by cytokine in breast cancer cells showing an estradiol–inhibitive response in vitro. Matsuoka H, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2549–54

Nucleolar volume in breast carcinomas. Mihailovic D, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3919–21

Primary lymphoma of the breast: a case report. Mingazzini PL, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3097–100

Role of thallium–201 chloride and Tc–99m methoxy–isobutyl–isonitrite (sestaMIBI) in evaluation of breast masses: correlation with the immunohistochemical characteristic parameters (Ki–67, PCNA, Bcl, and angiogenesis) in malignant lesions. Omar WS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1639–44

Supraclavicular lymph node metastases (SLM) from breast cancer as only site of distant disease: has radiotherapy any role? Pergolizzi S, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2303–8

Localization of mineralocorticoid receptor and 11 beta–hydroxysteroid dehydrogenase type II in human breast and its disorders. Sasano H, et al. **Anticancer Res** 1997 May–Jun;17(3C):2001–7

Three–dimensional type I collagen gel system containing MG–63 osteoblasts–like cells as a model for studying local bone reaction caused by metastatic cancer cells. Sourla A, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2773–80

A model for osseous metastasis of human breast cancer established by intrafemur injection of the MDA–MB–435 cells in nude mice. Wang CY, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2471–4

The cell cycle in breast cancer. Landberg G, et al. **APMIS** 1997 Aug;105(8):575–89 (105 ref.)

The influence of mammography screening on the pathological panorama of breast cancer. Lindgren A, et al. **APMIS** 1997 Jan;105(1):62–70

Genomic instability and poor prognosis associated with abnormal TP53 in breast carcinomas. Molecular and

immunohistochemical analysis. Valgardsdottir R, et al. **APMIS** 1997 Feb;105(2):121–30

Primary T-cell lymphoma of the breast with lymphoepithelial lesion. A case report. Vasei M, et al. **APMIS** 1997 Jun;105(6):445–8

Malignant myoepithelioma of the breast. Case report with immunohistochemical study. Van Dorpe J, et al. **Arch Anat Cytol Pathol** 1996;44(4):193–8 (13 ref.)

Pathogenesis of breast carcinoma. Immunohistochemical study. Zóltowska A. **Arch Immunol Ther Exp (Warsz)** 1997; 45(1):101–8

Myofibroblastoma of the breast with diverse differentiations. Fukunaga M, et al. **Arch Pathol Lab Med** 1997 Jun; 121(6):599–603

Practice protocol for the examination of specimens removed from patients with cancer of the breast: a publication of the Cancer Committee, College of American Pathologists. Members of the Cancer Committee, College of American Pathologists, and the Task Force for Protocols on the Examination of Specimens from Patients with Breast Cancer. Henson DE, et al. **Arch Pathol Lab Med** 1997 Jan; 121(1):27–33

Intraluminal crystalloids in breast carcinoma. Immunohistochemical, ultrastructural, and energy-dispersive x-ray element analysis in four cases. Ro JY, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):593–8

Osteopontin and p53 expression are associated with tumor progression in a case of synchronous, bilateral, invasive mammary carcinomas. Tuck AB, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):578–84

Histologic correlation of image-guided core biopsy with excisional biopsy of nonpalpable breast lesions. Acheson MB, et al. **Arch Surg** 1997 Aug;132(8):815–8; discussion 819–21

Stereotactic core needle biopsy and the workup of mammographic breast lesions. Devia A, et al. **Arch Surg** 1997 May;132(5):512–5; discussion 515–7

The impact of histopathology on nodal metastases in minimal breast cancer. Mustafa IA, et al. **Arch Surg** 1997 Apr; 132(4):384–90; discussion 390–1 (34 ref.)

Large-core needle biopsy of nonpalpable breast cancers. The impact on subsequent surgical excisions. Smith DN, et al. **Arch Surg** 1997 Mar;132(3):256–9; discussion 260

Stereotactic fine needle aspiration in the management of mammographic abnormalities detected in breast screening [see comments] Chan MC, et al. **Aust N Z J Surg** 1996 Sep;66(9):595–7. Comment in: Aust N Z J Surg 1996 Sep;66(9):577–9.

Stereotactic 14 gauge core-biopsy of the breast: results from 101 patients [see comments] Frayne J, et al. **Aust N Z J Surg** 1996 Sep;66(9):585–91 (26 ref.). Comment in: Aust N Z J Surg 1996 Sep;66(9):577–9.

Core biopsy for microcalcifications in the breast. Hirst C, et al. **Aust N Z J Surg** 1997 Jun;67(6):320–4

The evolving role of fine needle cytology and core-biopsy in the diagnosis of breast cancer [editorial; comment] Kitchen PR, et al. **Aust N Z J Surg** 1996 Sep;66(9):577–9 . Comment on: Aust N Z J Surg 1996 Sep;66(9):585–91. Comment on: Aust N Z J Surg 1996 Sep;66(9):592–4. Comment on: Aust N Z J Surg 1996 Sep;66(9):595–7.

Diagnosis of breast cancer with core-biopsy and fine needle aspiration cytology [see comments] Poole GH, et al. **Aust N Z J Surg** 1996 Sep;66(9):592–4. Comment in: Aust N Z J Surg 1996 Sep;66(9):577–9.

Bilateral primary lymphoma of the breast. Pullen CM, et al. **Aust N Z J Surg** 1996 Dec;66(12):845–7

Pre-operative histological diagnosis of breast cancer. Serpell JW, et al. **Aust N Z J Surg** 1997 Jun;67(6):325–9

Pulmonary resection for metastatic breast cancer. Simpson R, et al. **Aust N Z J Surg** 1997 Oct;67(10):717–9

The role of core biopsy in the diagnosis of mammographically detected lesions. Taft R, et al. **Aust N Z J Surg** 1996 Oct; 66(10):664–7

A review of pathology reporting for breast cancer. Wijetunga LH, et al. **Aust N Z J Surg** 1996 Nov;66(11):723–6

Stereotactic large-gauge core biopsy: its role in the diagnosis of non-palpable mammographic abnormalities presenting to a screening service. Sutton S, et al. **Australas Radiol** 1997 May;41(2):103–8

Differential display of reticulocalbin in the highly invasive cell line, MDA-MB-435, versus the poorly invasive cell line, MCF-7. Liu Z, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):283–9

Fas-signaling and effects on receptor tyrosine kinase signal transduction in human breast epithelial cells. Shen K, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):89–93

Changes in BRCA2 expression during progression of the cell cycle. Wang SC, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):247–51

The importance of the microenvironment in breast cancer progression: recapitulation of mammary tumorigenesis using a unique human mammary epithelial cell model and a three-dimensional culture assay. Weaver VM, et al. **Biochem Cell Biol** 1996;74(6):833–51 (163 ref.)

CD44 expression in human breast cancer cell lines is related to oestrogen receptor (ER) status and confluency in vitro. Bolodeoku J, et al. **Biochem Soc Trans** 1997 May;25(2):356S

Association between insulin-like growth factor receptors & cell density in breast cancer cells. Larsen C, et al. **Biochem Soc Trans** 1996 Aug;24(3):363S

Serum MCA, CA 125 and CA 19.9 determination in primary breast cancer. Yenisey C, et al. **Biochem Soc Trans** 1996 May;24(2):302S

Role of tumor cells contaminating the graft in breast cancer recurrence after high-dose chemotherapy. Pedrazzoli P, et al. **Bone Marrow Transplant** 1997 Jul;20(2):167–9

Body weight and vascular invasion in post-menopausal women with breast cancer. Badwe RA, et al. **Br J Cancer** 1997;75(6):910–3

Prognostic impact of proliferation-associated factors MIB1 (Ki-67) and S-phase in node-negative breast cancer. Dettmar P, et al. **Br J Cancer** 1997;75(10):1525–33

Plasminogen activator inhibitor type 2 in breast cancer. Duggan C, et al. **Br J Cancer** 1997;76(5):622–7

Mucoid breast carcinomas: histology and prognosis. Fentiman IS, et al. **Br J Cancer** 1997;75(7):1061–5

Histopathology of breast cancer in relation to age. Fisher CJ, et al. **Br J Cancer** 1997;75(4):593–6

Altered cell-matrix contact: a prerequisite for breast cancer metastasis? Gui GP, et al. **Br J Cancer** 1997;75(5):623–33

Effects of iron supplementation and ET-18-OCH3 on MDA-MB 231 breast carcinomas in nude mice consuming a fish oil diet. Hardman WE, et al. **Br J Cancer** 1997; 76(3):347–54

A comparison of axillary node status between cancers detected at the prevalence and first incidence breast screening rounds. Holland PA, et al. **Br J Cancer** 1996 Nov;74(10):1643–6

E-cadherin relates to EGFR expression and lymph node metastasis in primary breast carcinoma. Jones JL, et al. **Br J Cancer** 1996 Oct;74(8):1237–41

Early-onset breast cancer--histopathological and prognostic considerations. Kollias J, et al. **Br J Cancer** 1997; 75(9):1318–23

Gossypol inhibition of mitosis, cyclin D1 and Rb protein in human mammary cancer cells and cyclin-D1 transfected human fibrosarcoma cells. Ligueros M, et al. **Br J Cancer** 1997;76(1):21–8

Keratin 19 mRNA measurement to detect micrometastases in lymph nodes in breast cancer patients. Schoenfeld A, et al. **Br J Cancer** 1996 Nov;74(10):1639–42

Proteinase inhibitors reduce basement membrane degradation by human breast cancer cell lines. Stonelake PS, et al. **Br J Cancer** 1997;75(7):951–9

Laminin activates the p185HER2 oncoprotein and mediates growth inhibition of breast carcinoma cells. Tagliabue E, et al. **Br J Cancer** 1996 Nov;74(9):1427–33

Relationship between CA 15-3 serum levels and disease extent in predicting overall survival of breast cancer patients with newly diagnosed metastatic disease. Tampellini M, et al. **Br J Cancer** 1997;75(5):698–702

Squamoid features and expression of involucrin in primary breast carcinoma associated with high histological grade, tumour cell necrosis and recurrence sites. Tsuda H, et al. **Br J Cancer** 1997;75(10):1519–24

Interphase fluorescence in situ hybridization improves the detection of malignant cells in effusions from breast cancer patients. Zojer N, et al. **Br J Cancer** 1997;75(3):403–7

Cytological diagnosis of zosteriform skin metastases in undiagnosed breast carcinoma [letter] Heckmann M, et al. **Br J Dermatol** 1996 Sep;135(3):502–3

Cell proliferation as a predictor of response to chemotherapy in metastatic breast cancer: a prospective study. Amadori D, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):7–14

Histopathology grading in small breast cancers < or = 10 mm--results from an area with mammography screening. Arnesson LG, et al. **Breast Cancer Res Treat** 1997 May; 44(1):39–46

CeReS-18, a novel cell surface sialoglycopeptide, induces cell cycle arrest and apoptosis in a calcium-sensitive manner. Betz NA, et al. **Breast Cancer Res Treat** 1997 Jan; 42(2):137–48

Guidelines for systemic therapy of early stage breast cancer [see comments] Blum JL, et al. **Breast Cancer Res Treat** 1997 May;43(3):259–76. Comment in: Breast Cancer Res Treat 1997 May;43(3):277–8.

Androgens influence estrogen-induced responses in human breast carcinoma cells through cytochrome P450 aromatase. Burak WE Jr, et al. **Breast Cancer Res Treat** 1997 May;44(1):57–64

Sex steroid binding protein receptor (SBP-R) is related to a reduced proliferation rate in human breast cancer. Catalano MG, et al. **Breast Cancer Res Treat** 1997 Feb; 42(3):227–34

Time distribution of the recurrence risk for breast cancer patients undergoing mastectomy: further support about the concept of tumor dormancy. Demicheli R, et al. **Breast Cancer Res Treat** 1996;41(2):177–85

Mechanism of action of a tyrphostin, 3,4-dihydroxy-alpha-cyanothiocinnamamide, in breast cancer cell growth inhibition involves the suppression of cyclin B1 and the functional activity of cyclin B1/p34cdc2 complex. Faaland CA, et al. **Breast Cancer Res Treat** 1997 May;44(1):47–56

Immunocytochemical detection of breast cancer cells in marrow and peripheral blood of patients undergoing high dose chemotherapy with autologous stem cell support. Franklin WA, et al. **Breast Cancer Res Treat** 1996; 41(1):1–13

Changes of biological features in breast cancer cells determined by primary chemotherapy. Frassoldati A, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):185–92

IGF-II mRNA and protein are expressed in the stroma of invasive breast cancers: an in situ hybridization and immunohistochemistry study. Giani C, et al. **Breast Cancer Res Treat** 1996;41(1):43–50

Analysis of the tumor staining obtained by preoperative IV-DSA for breast cancer patients: density and metastasis correlation. Haga S, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):129–35

Comment on 'when can stereotactic core biopsy replace excisional biopsy'? [letter; comment] Head JF, et al. **Breast Cancer Res Treat** 1996;39(3):349–51. Comment on: Breast Cancer Res Treat 1995;36(1):1–9.

Variation in staging and treatment of local and regional breast cancer in the elderly. Hillner BE, et al. **Breast Cancer Res Treat** 1996;40(1):75–86

Post screen-detected breast cancer within the Screening Mammography Program of British Columbia. Hislop TG, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):235–42

Tumor characteristics and survival of breast cancer patients in relation to premorbid diet and body size. Jain M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):43–55

The significance of heregulin in breast cancer tumor progression and drug resistance. Lupu R, et al. **Breast Cancer Res Treat** 1996;38(1):57–66 (53 ref.)

Long-term culture of primary breast cancer in defined medium. McCallum HM, et al. **Breast Cancer Res Treat** 1996;39(3):247–59

Prognostic characteristics in breast cancers after hormone replacement therapy. Magnusson C, et al. **Breast Cancer Res Treat** 1996;38(3):325–34

Increased hematopoietic progenitor cell maintenance in long-term bone marrow cultures containing minimal numbers of contaminating breast cancer cells. Mann SL, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):115–21

Bone marrow micrometastases in 109 breast cancer patients: correlations with clinical and pathological features and prognosis. Molino A, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):23–30

Defining a role for c-Myc in breast tumorigenesis. Nass SJ, et al. **Breast Cancer Res Treat** 1997 May;44(1):1–22 (177 ref.)

Sequential production and activation of matrix-metalloproteinase-9 (MMP-9) with breast cancer progression. Rha SY, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):175–81

Comparative effects of 1,25(OH)2D3 and EB1089 on cell cycle kinetics and apoptosis in MCF-7 breast cancer cells. Simboli-Campbell M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):31–41

Mitogenic activity toward human breast cancer cell line MCF-7 of two bFGFs purified from sera of breast cancer patients: co-operative role of cathepsin D. Takei Y, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):53–63

Breast cancer in African American women: epidemiology and tumor biology. Trock BJ. **Breast Cancer Res Treat** 1996;40(1):11–24 (78 ref.)

Influence of investigator experience and microscopic field size on microvessel density in node-negative breast carcinoma. Vermeulen PB, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):165–72

Three dimensional staging of breast cancer. Wapnir IL, et al. **Breast Cancer Res Treat** 1996;41(1):15–9

Premenopausal node-negative breast cancer: may adjuvant chemotherapy be indicated by the analysis of nuclear DNA dynamics? Wyss-Desserich MT, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):253–63

Breast cancer stage at diagnosis: Caucasians versus Hispanics. Zaloznik AJ. **Breast Cancer Res Treat** 1997 Jan;42(2):121–4

Establishment and characterization of two new cell lines derived from human metastatic breast carcinomas. Zoli W, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):141–51

Invasive ductal carcinoma, fibroadenoma and adjacent breast stroma angiogenesis: an immunohistochemical and morphometrical study. Da Silva ID, et al. **Bull Assoc Anat (Nancy)** 1996 Sep;80(250):17–9

Pathobiological considerations relating to the treatment of intraductal carcinoma (ductal carcinoma in situ) of the breast [published erratum appears in CA Cancer J Clin 1997 Mar-Apr;47(2):68] Fisher ER. **CA Cancer J Clin** 1997 Jan-Feb;47(1):52–64 (48 ref.)

Clinical trials in metastatic breast cancer to bone: past--present--future. Body JJ. **Can J Oncol** 1995 Dec;5 Suppl 1:16–27 (95 ref.)

Clinically available evaluation of bone disease in breast cancer--validity and cost effectiveness. Coleman RE. **Can J Oncol** 1995 Dec;5 Suppl 1:69–79 (47 ref.)

Autologous transplantation for patients with advanced breast cancer with emphasis on bony metastasis. Glück S. **Can J Oncol** 1995 Dec;5 Suppl 1:58–62

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:33–9 (31 ref.)

Role of bisphosphonates in prevention and treatment of bone metastases from breast cancer. Paterson AH, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:54–7

Positive selection and ex vivo expansion of hematopoietic progenitors as autografts for high-dose chemotherapy, potential importance in patients with bone metastases. Purdy MH. **Can J Oncol** 1995 Dec;5 Suppl 1:63–8

Fine-needle aspiration cytology of pleomorphic lobular carcinoma of the breast. Comparison with the classic type [see comments] Auger M, et al. **Cancer** 1997 Feb 25; 81(1):29–32. Comment in: Cancer 1997 Feb 25;81(1):1–2.

Predictors of axillary lymph node metastases in patients with

T1 breast carcinoma [see comments] Barth A, et al. **Cancer** 1997 May 15;79(10):1918–22. Comment in: Cancer 1997 May 15;79(10):1856–64.

Histopathology and growth rate of interval breast carcinoma. Characterization of different subgroups. Brekelmans CT, et al. **Cancer** 1996 Sep 15;78(6):1220–8

Response to second–line chemotherapy in patients with metastatic breast carcinoma previously responsive to first–line treatment: prognostic factors. Brun B, et al. **Cancer** 1997 Jun 1;79(11):2137–46

Use of primary breast carcinoma characteristics to predict lymph node metastases [editorial; comment] [published erratum appears in Cancer 1997 Jun 15;79(12):2482] Cady B. **Cancer** 1997 May 15;79(10):1856–61; discussion 1862–4 . Comment on: Cancer 1997 May 15;79(10):1918–22.

The results of intraoperative consultations in 181 ductal carcinomas in situ of the breast. Cheng L, et al. **Cancer** 1997 Jul 1;80(1):75–9

Lymph node micrometastases from breast carcinoma: reviewing the dilemma. Dowlatshahi K, et al. **Cancer** 1997 Oct 1;80(7):1188–97 (55 ref.)

Lumpectomy margins and much more [editorial; comment] Fisher ER. **Cancer** 1997 Apr 15;79(8):1453–8; discussion 1459–60. Comment on: Cancer 1997 Apr 15;79(8):1568–73.

Pathologic findings from the National Surgical Adjuvant Breast Project (NSABP) Protocol B–17. Five–year observations concerning lobular carcinoma in situ. Fisher ER, et al. **Cancer** 1996 Oct 1;78(7):1403–16

Core needle biopsy. A useful adjunct to fine–needle aspiration in select patients with palpable breast lesions [see comments] Florentine BD, et al. **Cancer** 1997 Feb 25; 81(1):33–9. Comment in: Cancer 1997 Feb 25;81(1):1–2.

Pathologic margin involvement and the risk of recurrence in patients treated with breast–conserving therapy. Gage I, et al. **Cancer** 1996 Nov 1;78(9):1921–8

The relationship between shaved margin and inked margin status in breast excision specimens [see comments] Guidi AJ, et al. **Cancer** 1997 Apr 15;79(8):1568–73. Comment in: Cancer 1997 Apr 15;79(8):1453–8; discussion 1459–60.

Lymph node negative invasive breast carcinoma 1 centimeter or less in size (T1a,bNOMO): clinicopathologic features and outcome. Lee AK, et al. **Cancer** 1997 Feb 15; 79(4):761–71

An update on core needle biopsy for radiologically detected breast lesions. Nguyen M, et al. **Cancer** 1996 Dec 1; 78(11):2340–5 (17 ref.)

Relationship of tumor grade to other pathologic features and to treatment outcome of patients with early stage breast carcinoma treated with breast–conserving therapy. Nixon AJ, et al. **Cancer** 1996 Oct 1;78(7):1426–31

Histologic characteristics of breast cancers with occult lymph node metastases detected by keratin 19 mRNA reverse transcriptase–polymerase chain reaction. Noguchi S, et al. **Cancer** 1996 Sep 15;78(6):1235–40

Primary combined malignant melanoma and ductal carcinoma of the breast. A report of two cases. Padmore RF, et al. **Cancer** 1996 Dec 15;78(12):2515–25

Probabilistic approach to the reporting of fine–needle aspiration cytology of the breast [see comments] Page DL, et al. **Cancer** 1997 Feb 25;81(1):6–9 (23 ref.). Comment in: Cancer 1997 Feb 25;81(1):1–2.

nm23––relationship to the metastatic potential of breast carcinoma cell lines, primary human xenografts, and lymph node negative breast carcinoma patients. Russell RL, et al. **Cancer** 1997 Mar 15;79(6):1158–65

Preoperative prediction of open breast biopsy results. Seltzer MH. **Cancer** 1997 May 1;79(9):1822–7

Indeterminate fine–needle aspiration of the breast. Image analysis–assisted diagnosis. Teague MW, et al. **Cancer** 1997 Apr 25;81(2):129–35

Age–related differences in patients with nonpalpable breast carcinomas. Wazer DE, et al. **Cancer** 1996 Oct 1; 78(7):1432–7

Computer–derived nuclear features compared with axillary lymph node status for breast carcinoma prognosis. Wolberg WH, et al. **Cancer** 1997 Jun 25;81(3):172–9

Laterality of breast cancer in the United States. Weiss HA, et al. **Cancer Causes Control** 1996 Sep;7(5):539–43

Comparison of fine needle aspiration and Tru–Cut biopsy of palpable mammary lesions. Scopa CD, et al. **Cancer Detect Prev** 1996;20(6):620–4

Correspondence re: J. Russo, A. L. Romero, and I. H. Russo, architectural pattern of the normal and cancerous breast under the influence of parity. Cancer Epidemiol., Biomarkers & Prev., 3: 219–224, 1994 [letter] Ursin G, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):143–4

Heregulin induces increase in sensitivity of an erbB–2–overexpressing breast cancer cell type to lysis by lymphokine–activated killer cells. Cardillo M, et al. **Cancer Immunol Immunother** 1996 Sep;43(1):19–25

Histologic markers and long–term prognosis in breast cancer [comment] Burtness BA. **Cancer J Sci Am** 1997 Jul–Aug; 3(4):211–2. Comment on: Cancer J Sci Am 1997 Jul–Aug;3(4):224–9.

Breast cancer metastatic phenotype as predicted by histologic tumor markers [see comments] Heimann R, et al. **Cancer J Sci Am** 1997 Jul–Aug;3(4):224–9. Comment in: Cancer J Sci Am 1997 Jul–Aug;3(4):211–2.

Overexpression of BCL–x protein in primary breast cancer is associated with high tumor grade and nodal metastases. Olopade OI, et al. **Cancer J Sci Am** 1997 Jul–Aug; 3(4):230–7

Microvessel density and outcome of adjuvant treatment of breast cancer patients [letter] Voest EE, et al. **Cancer J Sci Am** 1997 May–Jun;3(3):184–5

Plasmin induces the formation of multicellular spheroids of breast cancer cells. Chun MH. **Cancer Lett** 1997 Jul 15; 117(1):51–6

Apoptosis and metastasis: increased apoptosis resistance of metastatic cancer cells is associated with the profound deficiency of apoptosis execution mechanisms. Glinsky GV, et al. **Cancer Lett** 1997 May 19;115(2):185–93

The 12–lipoxygenase gene–transfected MCF–7 human breast cancer cell line exhibits estrogen–independent, but estrogen and omega–6 fatty acid–stimulated proliferation in vitro, and enhanced growth in athymic nude mice. Liu XH, et al. **Cancer Lett** 1996 Dec 3;109(1–2):223–30

Inhibition of proliferation of estrogen receptor–positive MCF–7 human breast cancer cells by flavonoids in the presence and absence of excess estrogen. So FV, et al. **Cancer Lett** 1997 Jan 30;112(2):127–33

A novel in vitro and in vivo breast cancer model for testing inhibitors of estrogen biosynthesis and its action using mammary tumor cells with an activated int–5/aromatase gene. Tekmal RR, et al. **Cancer Lett** 1997 Sep 16; 118(1):21–8

Role of intermediate filaments in migration, invasion and metastasis. Hendrix MJ, et al. **Cancer Metastasis Rev** 1996 Dec;15(4):507–25 (105 ref.)

The role of angiogenic growth factors in breast cancer progression. Kern FG, et al. **Cancer Metastasis Rev** 1996 Jun;15(2):213–9 (38 ref.)

Molecular pathology of breast cancer and its application to clinical management. Walker RA, et al. **Cancer Metastasis Rev** 1997 Jun;16(1–2):5–27 (212 ref.)

Physiological melatonin inhibition of human breast cancer cell growth in vitro: evidence for a glutathione–mediated pathway. Blask DE, et al. **Cancer Res** 1997 May 15; 57(10):1909–14

Bisphosphonates inhibit prostate and breast carcinoma cell adhesion to unmineralized and mineralized bone extracellular matrices. Boissier S, et al. **Cancer Res** 1997 Sep 15;57(18):3890–4

Partial enzymatic degradation of stroma allows enrichment and expansion of primary breast tumor cells. Dairkee SH, et al. **Cancer Res** 1997 Apr 15;57(8):1590–6

Neu differentiation factor induces ErbB2 down–regulation and apoptosis of ErbB2–overexpressing breast tumor cells. Daly JM, et al. **Cancer Res** 1997 Sep 1;57(17):3804–11

Genetic progression, histological grade, and allelic loss in ductal carcinoma in situ of the breast. Fujii H, et al. **Cancer Res** 1996 Nov 15;56(22):5260–5

Inhibition of human breast cancer metastasis in nude mice by synthetic glycoamines. Glinsky GV, et al. **Cancer Res** 1996 Dec 1;56(23):5319–24

Genetic heterogeneity and clonal evolution underlying development of asynchronous metastasis in human breast cancer. Kuukasjärvi T, et al. **Cancer Res** 1997 Apr 15; 57(8):1597–604

Role of epidermal growth factor receptor and STAT–3 activation in autonomous proliferation of SUM–102PT human breast cancer cells. Sartor CI, et al. **Cancer Res** 1997 Mar 1;57(5):978–87

Inhibition of estrone sulfatase and proliferation of human breast cancer cells by nonsteroidal (p–O–sulfamoyl)–N–alkanoyl tyramines. Selcer KW, et al. **Cancer Res** 1997 Feb 15;57(4):702–7

Novel estrogenic action of the pesticide residue beta–hexachlorocyclohexane in human breast cancer cells. Steinmetz R, et al. **Cancer Res** 1996 Dec 1;56(23):5403–9

Vitamin E succinate induces Fas–mediated apoptosis in estrogen receptor–negative human breast cancer cells. Turley JM, et al. **Cancer Res** 1997 Mar 1;57(5):881–90

Expression and tissue localization of membrane–types 1, 2, and 3 matrix metalloproteinases in human invasive breast carcinomas. Ueno H, et al. **Cancer Res** 1997 May 15; 57(10):2055–60

Potent growth inhibitory activity of zidovudine on cultured human breast cancer cells and rat mammary tumors. Wagner CR, et al. **Cancer Res** 1997 Jun 15;57(12):2341–5

Prevention of breast cancer growth, invasion, and metastasis by antiestrogen tamoxifen alone or in combination with urokinase inhibitor B–428. Xing RH, et al. **Cancer Res** 1997 Aug 15;57(16):3585–93

Vascular endothelial growth factor is essential for initial but not continued in vivo growth of human breast carcinoma cells. Yoshiji H, et al. **Cancer Res** 1997 Sep 15;57(18):3924–8

Cell motility in breast cancer. Kantor JD, et al. **Cancer Treat Res** 1996;83:303–23 (115 ref.)

Models of progression spanning preneoplasia and metastasis: the human MCF10AneoT.TGn series and a panel of mouse mammary tumor subpopulations. Miller FR. **Cancer Treat Res** 1996;83:243–63 (42 ref.)

Clonal heterogeneity of the growth and invasive response of a human breast carcinoma cell line to parathyroid hormone–related peptide fragments. Luparello C, et al. **Carcinogenesis** 1997 Jan;18(1):23–9

Mechanism of inhibition of MDA–MB–468 breast cancer cell growth by 2,3,7,8–tetrachlorodibenzo–p–dioxin. Wang WL, et al. **Carcinogenesis** 1997 May;18(5):925–33

N–cadherin promotes adhesion between invasive breast cancer cells and the stroma. Hazan RB, et al. **Cell Adhes Commun** 1997 Mar;4(6):399–411

Progression of MCF–7 breast cancer cells to antiestrogen–resistant phenotype is accompanied by elevated levels of AP–1 DNA–binding activity. Dumont JA, et al. **Cell Growth Differ** 1996 Mar;7(3):351–9

Staurosporine–induced G1 arrest is associated with the induction and accumulation of cyclin–dependent kinase inhibitors. Kwon TK, et al. **Cell Growth Differ** 1996 Oct; 7(10):1305–13

Oncostatin M–specific receptor mediates inhibition of breast cancer cell growth and down–regulation of the c–myc proto–oncogene. Liu J, et al. **Cell Growth Differ** 1997 Jun; 8(6):667–76

Induction of a less aggressive breast cancer phenotype by protein kinase C–alpha and –beta overexpression. Manni A, et al. **Cell Growth Differ** 1996 Sep;7(9):1187–98

Genistein inhibits both estrogen and growth factor–stimulated proliferation of human breast cancer cells. Peterson G, et al. **Cell Growth Differ** 1996 Oct; 7(10):1345–51

All–trans–retinoic acid mediates G1 arrest but not apoptosis of normal human mammary epithelial cells. Seewaldt VL, et al. **Cell Growth Differ** 1997 Jun;8(6):631–41

Increased autocrine production of insulin–like growth factor II (IGF–II) alters serum sensitivity of MCF–7 human breast cancer cell proliferation. Corcoran D, et al. **Cell Prolif** 1996 Sep;29(9):479–93

Apocrine carcinoma of the breast masquerading as a tension cyst [letter] Angunawela P, et al. **Ceylon Med J** 1997 Jun; 42(2):104–5

Diffuse tumor microembolism: a rare cause of a high–probability perfusion scan. Moores LK, et al. **Chest** 1997 Apr;111(4):1122–5

Specific oncological contribution of cathepsin D and pS2 in human breast cancer: their relationship with TNM status, estradiol receptors, epidermal growth factor receptor and neu amplification. Bolufer P, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):89–103

Differential influence of antiestrogens on the in vitro release of gelatinases (type IV collagenases) by invasive and non–invasive breast cancer cells. Abbas Abidi SM, et al. **Clin Exp Metastasis** 1997 Jul;15(4):432–9

Expression of c–ets–1 mRNA is associated with an invasive, EMT–derived phenotype in breast carcinoma cell lines. Gilles C, et al. **Clin Exp Metastasis** 1997 Sep;15(5):519–26

Influence of antiestrogens on the migration of breast cancer cells using an in vitro wound model. Mathew AC, et al. **Clin Exp Metastasis** 1997 Jul;15(4):393–9

Assessment of the invasive potential of human gynecological tumor cell lines with the in vitro Boyden chamber assay: influences of the ability of cells to migrate through the filter membrane. Sieuwerts AM, et al. **Clin Exp Metastasis** 1997 Jan;15(1):53–62

Human breast cancer cell metastasis to long bone and soft organs of nude mice: a quantitative assay. Sung V, et al. **Clin Exp Metastasis** 1997 Mar;15(2):173–83

Metastatic breast cancer 42 years after bilateral subcutaneous mastectomies. Jameson MB, et al. **Clin Oncol (R Coll Radiol)** 1997;9(2):119–21

The impact of core–biopsy on pre–operative diagnosis rate of screen–detected breast cancers [letter; comment] Muir BB, et al. **Clin Radiol** 1997 Jul;52(7):566–7. Comment on: Clin Radiol 1996 Aug;51(8):562–5.

Technical report: a training phantom for stereotactic breast biopsies. Quinn AD, et al. **Clin Radiol** 1997 Feb; 52(2):149–50

Age–stratified incidence of unsuspected mammary carcinoma in women with fibroadenoma. Ricci A Jr, et al. **Conn Med** 1996 Oct;60(10):587–90

The role of dietary fat in breast cancer. Carroll KK. **Curr Opin Lipidol** 1997 Feb;8(1):53–6 (39 ref.)

Hormone replacement therapy for women after breast carcinoma. Sands R, et al. **Curr Opin Obstet Gynecol** 1996 Jun;8(3):216–20 (41 ref.)

Metastatic breast cancer. Kennedy MJ. **Curr Opin Oncol** 1996 Nov;8(6):485–90 (32 ref.)

Pathology of preinvasive and excellent–prognosis breast cancer. Page DL, et al. **Curr Opin Oncol** 1996 Nov; 8(6):462–7 (41 ref.)

Influence of c–myc on the progression of human breast cancer. Watson PH, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):267–83 (146 ref.)

Erosive adenomatosis of the nipple: a benign imitator of malignant breast disease. Miller L, et al. **Cutis** 1997 Feb; 59(2):91–2 (11 ref.)

New method of nuclear grading of tissue sections by means of digital image analysis with prognostic significance for node–negative breast cancer patients. Albert R, et al. **Cytometry** 1996 Jun 1;24(2):140–50

Counting mitoses by image processing in Feulgen stained breast cancer sections: the influence of resolution. Beliën JA, et al. **Cytometry** 1997 Jun 1;28(2):135–40

Comparison of five cell cycle analysis models applied to 1414 flow cytometric DNA histograms of fresh frozen breast cancer. Bergers E, et al. **Cytometry** 1997 Feb 15;30(1):54–60

Estrogen and progesterone receptors in breast cancer: comparison between enzyme immunoassay and computer–assisted image analysis of immunocytochemical assay. Cavaliere A, et al. **Cytometry** 1996 Sep 15; 26(3):204–8

Discrimination of late apoptotic/necrotic cells (type III) by flow cytometry in solid tumors. O'Brien MC, et al. **Cytometry** 1997 May 1;28(1):81–9

Image analysis of low magnification images of fine needle aspirates of the breast produces useful discrimination between benign and malignant cases. Cross SS, et al. **Cytopathology** 1997 Aug;8(4):265–73

Ringlike structures in fine needle aspirates from the breast. Gupta RK. **Cytopathology** 1996 Oct;7(5):352–6

UK national audit of breast fine needle aspiration cytology in 1990–91: diagnostic criteria. Hunt CM, et al. **Cytopathology** 1996 Oct;7(5):326–32

United Kingdom national audit of breast fine needle aspiration cytology in 1990–91—organization and level of activity. Hunt CM, et al. **Cytopathology** 1996 Oct; 7(5):316–25

Papanicolaou staining of air–dried smears: value in rapid diagnosis. Jones CA. **Cytopathology** 1996 Oct;7(5):333–9

Fine needle aspiration (FNA) cytology of the breast: the influence of unsatisfactory samples on patient management. Lazda EJ, et al. **Cytopathology** 1996 Aug;7(4):262–7

Fine needle aspiration (FNA) cytology of adenoid cystic carcinoma and adenomyoepithelioma of breast: two lesions rich in myoepithelial cells. McCluggage WG, et al. **Cytopathology** 1997 Feb;8(1):31–9

Phyllodes tumour: cytologic and histologic presentation of 22 cases, and immunohistochemical demonstration of p53. Shabalova IP, et al. **Cytopathology** 1997 Jun;8(3):177–87

c–erb B–2 and p53 expression in breast cancer fine needle aspirates. Tiniakos DG, et al. **Cytopathology** 1996 Jun; 7(3):178–86

Pathological assessment in patients receiving primary medical therapy for breast cancer [editorial] Trott PA. **Cytopathology** 1996 Apr;7(2):75–7 (16 ref.)

Initial 100 consecutive stereotactic core breast biopsies in a private breast center setting. Witmer DR, et al. **Del Med J** 1997 Jun;69(6):297–301

The uniform approach to breast fine–needle aspiration biopsy. National Cancer Institute Fine–Needle Aspiration of Breast Workshop Subcommittees. **Diagn Cytopathol** 1997 Apr; 16(4):295–311

Uniform approach to breast aspirates: the quest becomes reality [editorial] Abati A. **Diagn Cytopathol** 1996 Jul; 15(1):vii–viii

Fine–needle biopsy technique for diagnosis of inflammatory carcinoma of the breast. Akhtar M. **Diagn Cytopathol** 1996 Jul;15(1):76–7

Localization of p53 and proliferating cell nuclear antigen in fine–needle aspirates of benign and primary malignant tumors of the human breast: an immunocytochemical study using supersensitive monoclonal antibodies and the biotin–streptavidin–amplified method. Alexiev BA. **Diagn Cytopathol** 1996 Nov;15(4):277–81

Fine–needle aspiration biopsy of metaplastic carcinoma of the breast: report of a case with abundant myxoid ground substance. Castellà E, et al. **Diagn Cytopathol** 1996 Jun; 14(4):325–7

Myoblastomatoid carcinoma of the breast: an unusual variant of apocrine carcinoma: report of a case with fine–needle aspiration cytology and immunohistochemical study. Cohen H, et al. **Diagn Cytopathol** 1997 Feb;16(2):145–8

Fine–needle aspiration biopsy of adenoid cystic carcinoma of the breast: a case report. Culubret M, et al. **Diagn Cytopathol** 1996 Dec;15(5):431–4

Fine–needle aspiration of inflammatory carcinoma of the breast. Dodd LG, et al. **Diagn Cytopathol** 1996 Dec; 15(5):363–6

Fine–needle aspiration of well differentiated small–cell duct carcinoma of the breast. Fiorella RM, et al. **Diagn Cytopathol** 1997 Mar;16(3):226–9

Two schwannomas presenting as lumps in the same breast. Galant C, et al. **Diagn Cytopathol** 1997 Mar;16(3):281–4

Is there a role for fine–needle aspiration in radial scar/complex sclerosing lesions of the breast? Greenberg ML, et al. **Diagn Cytopathol** 1997 Jun;16(6):537–42

Pap smears of patients on tamoxifen [letter] Gu M, et al. **Diagn Cytopathol** 1997 Jan;16(1):96–7

Fine–needle aspiration cytodiagnosis of recurrent carcinoma of the breast in operative scars. Gupta RK. **Diagn Cytopathol** 1997 Jan;16(1):14–6

Fine–needle aspiration cytodiagnosis of adenoid cystic carcinoma of the breast. Gupta RK, et al. **Diagn Cytopathol** 1996 Jun;14(4):328–30

Aspiration cytodiagnosis of a rare carcinoma of breast with bizarre malignant giant cells. Gupta RK. **Diagn Cytopathol** 1996 Jul;15(1):66–9

Cytodiagnosis of pure primary squamous–cell carcinoma of the breast by fine–needle aspiration cytology. Gupta RK, et al. **Diagn Cytopathol** 1997 Sep;17(3):197–9

Breast care consultation center: role of the pathologist in a multidisciplinary center. Kanbour–Shakir A, et al. **Diagn Cytopathol** 1997 Sep;17(3):191–6

Scrape cytology of pemphigus vulgaris of the nipple, a mimicker of Paget's disease. Kobayashi TK, et al. **Diagn Cytopathol** 1997 Feb;16(2):156–9

Fine–needle aspiration of low grade adenosquamous carcinoma of the breast. Krigman HR, et al. **Diagn Cytopathol** 1996 Jun;14(4):321–4

Clear cell hidradenoma simulating breast carcinoma: a diagnostic pitfall in fine–needle aspiration of breast. Kumar N, et al. **Diagn Cytopathol** 1996 Jul;15(1):70–2

Intramammary lymph nodes: cytologic findings and implications for fine–needle aspiration cytology diagnosis of breast nodules. Layfield LJ, et al. **Diagn Cytopathol** 1997 Sep;17(3):223–9

Cytologically low grade malignancies: an important interpretative pitfall responsible for false negative diagnoses in fine–needle aspiration of the breast. Layfield LJ, et al. **Diagn Cytopathol** 1996 Sep;15(3):250–9

Cytologic features of a combined tubular adenoma and fibroadenoma of the breast [letter] Liu K, et al. **Diagn Cytopathol** 1997 Feb;16(2):184–6

Prognostic factors in breast cancer: use of cytologic preparations. Masood S. **Diagn Cytopathol** 1995 Dec; 13(5):388–95 (46 ref.)

Are epithelial cells in fat or connective tissue a reliable indicator of tumor invasion in fine–needle aspiration of the breast? Maygarden SJ, et al. **Diagn Cytopathol** 1997 Feb; 16(2):137–42

Fine–needle aspiration cytology of metastatic ovarian carcinoma to the breast. Raptis S, et al. **Diagn Cytopathol** 1996 Jul;15(1):1–6 (14 ref.)

The breast and aspirate–outside the ivory tower [editorial] Rollins SD. **Diagn Cytopathol** 1997 Mar;16(3):197–9

Diagnostic significance of signet ring cells in fine–needle aspirates of the breast. Sethi S, et al. **Diagn Cytopathol** 1997 Feb;16(2):117–21

Fine–needle aspirates of granular cell lesions of the breast: report of three cases, with emphasis on differential diagnosis and utility of immunostaining for CD68 (KP1). Sirgi KE, et al. **Diagn Cytopathol** 1996 Dec;15(5):403–8

Fine–needle aspiration cytology of sarcomatoid carcinoma of the breast: a cytologically overlooked neoplasm. Straathof D, et al. **Diagn Cytopathol** 1997 Mar;16(3):242–6

Cytologic features of ductal carcinoma in situ. Theocharous C, et al. **Diagn Cytopathol** 1996 Dec;15(5):367–73

c–erbB–2 expression in FNAB smears and matched surgical specimens of breast cancer. Troncone G, et al. **Diagn Cytopathol** 1996 Mar;14(2):135–9

Ukrain therapy of recurrent breast cancer with lung metastases (case report). Kadan P, et al. **Drugs Exp Clin Res** 1996;22(3–5):243–5

Influence of Ukrain on patients with surgically treated breast cancer. Part IV. Electromicroscopic and cytochemical evaluation. Uglyanica KN, et al. **Drugs Exp Clin Res** 1996; 22(3–5):147–53

Giant juvenile papillomatosis of the breast: report of two cases. Farid MK, et al. **East Afr Med J** 1997 Feb; 74(2):116–7

Interleukin–1 blocks insulin and insulin–like growth factor–stimulated growth in MCF–7 human breast cancer cells by inhibiting receptor tyrosine kinase activity. Costantino A, et al. **Endocrinology** 1996 Oct;137(10):4100–7

Androgen–induced inhibition of proliferation in human breast cancer MCF7 cells transfected with androgen receptor. Szelei J, et al. **Endocrinology** 1997 Apr;138(4):1406–12

Urokinase plasminogen activator as a predictor of aggressive disease in breast cancer. Duffy MJ, et al. **Enzyme Protein** 1996;49(1–3):85–93

WR–1065, the active metabolite of amifostine (Ethyol), does not inhibit the cytotoxic effects of a broad range of standard anticancer drugs against human ovarian and breast cancer cells. Alberts DS, et al. **Eur J Cancer** 1996;32A Suppl 4:S17–20

Comments on Current and future trends in the multidisciplinary approach for high–risk breast cancer. The experience of the Milan Cancer Institute, Bonadonna, Eur J Cancer, 32A, No. 2, pp. 209–214, 1996 [letter; comment] Barista I. **Eur J Cancer** 1997 Jan;33(1):164–5. Comment on: Eur J Cancer 1996 Feb;32A(2):209–14.

Large core biopsy for diagnostic and prognostic evaluation of invasive breast carcinomas. Di Loreto C, et al. **Eur J Cancer** 1996 Sep;32A(10):1693–700

Tumour necrosis factor and interferon are selectively cytostatic in vitro for hormone–dependent and hormone–independent human breast cancer cells. Mueller H, et al. **Eur J Cancer** 1996 Dec;32A(13):2312–8

Mammographic screening for breast cancer. What cancers do we find? [see comments] Nordén T, et al. **Eur J Cancer** 1997 Apr;33(4):624–8. Comment in: Eur J Cancer 1997 Apr;33(4):519–20.

S–phase fractions of breast cancer predict overall and post–relapse survival. Remvikos Y, et al. **Eur J Cancer** 1997 Apr;33(4):581–6

Antiproliferative effect of silybin on gynaecological malignancies: synergism with cisplatin and doxorubicin. Scambia G, et al. **Eur J Cancer** 1996 May;32A(5):877–82

The detection of micrometastases in the peripheral blood and bone marrow of patients with breast cancer using immunohistochemistry and reverse transcriptase polymerase chain reaction for keratin 19. Schoenfeld A, et al. **Eur J Cancer** 1997 May;33(6):854–61

The usefulness of screening data for studying the biology of breast cancer [editorial; comment] van Dongen JA. **Eur J Cancer** 1997 Apr;33(4):519–20. Comment on: Eur J Cancer 1997 Apr;33(4):624–8.

Inhibition of insulin– and insulin–like growth factor–I–stimulated growth of human breast cancer cells by 1,25–dihydroxyvitamin D3 and the vitamin D3 analogue EB1089. Vink–van Wijngaarden T, et al. **Eur J Cancer** 1996 May;32A(5):842–8

Increased concentrations of octachlorodibenzo–p–dioxin in cases with breast cancer—results from a case–control study. Hardell L, et al. **Eur J Cancer Prev** 1996 Oct;5(5):351–7

Detection of sequential genetic alterations relevant for breast cancer development. Niederacher D, et al. **Eur J Cancer Prev** 1996 Dec;5(6):497–503

Carboplatin plus etoposide regimen in advanced breast cancer. A phase II study. Deltetto F, et al. **Eur J Gynaecol Oncol** 1997;18(3):185–7

Metastatic breast carcinoma manifesting as postmenopausal uterine bleeding in a patient on tamoxifen therapy. Maymon R, et al. **Eur J Gynaecol Oncol** 1996;17(4):319–21

Prospective evaluation of fluorine–18 fluorodeoxyclucose positron emission tomography in breast cancer for staging of the axilla related to surgery and immunocytochemistry. Utech CI, et al. **Eur J Nucl Med** 1996 Dec;23(12):1588–93

The antiproliferative effect of opioid receptor agonists on the T47D human breast cancer cell line, is partially mediated through opioid receptors. Hatzoglou A, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):199–207

Breast cancer: zones of increased density mammographic features, correlated to clinical TNM and prognosis. Langer–Cherbit A, et al. **Eur J Radiol** 1997 Jan;24(1):48–53

Stereotaxic needle–core biopsy and fine–needle aspiration biopsy in the diagnosis of nonpalpable breast lesions: controversies and future prospects. Lifrange E, et al. **Eur J Radiol** 1997 Jan;24(1):39–47

Breast mass due to alveolar soft part sarcoma of the pectoris major muscle. Liu TT, et al. **Eur J Radiol** 1997 Jan; 24(1):57–9

The diagnostic accuracy of core biopsy in palpable and non–palpable breast lesions. Pijnappel RM, et al. **Eur J Radiol** 1997 Feb;24(2):120–3

Primary non–Hodgkin's T–cell lymphoma of the breast. Anania G, et al. **Eur J Surg** 1997 Aug;163(8):633–5

Breast cancer in women over 75 years: is axillary dissection always necessary? Näslund E, et al. **Eur J Surg** 1996 Nov; 162(11):867–71

Impalpable breast lesions diagnosed by mammography: incidence of histologically confirmed malignancy. Rothman LP, et al. **Eur J Surg** 1996 Sep;162(9):691–4

Experience with a high speed biopsy gun in breast cancer diagnosis. Cerwenka H, et al. **Eur J Surg Oncol** 1997 Jun; 23(3):206–7

Tumor size and axillary metastasis, a correlative occurrence in 1244 cases of breast cancer between 1980 and 1995. Shetty MR, et al. **Eur J Surg Oncol** 1997 Apr;23(2):139–41

MRI diagnosis of intramedullary metastases from extra–CNS tumors. Crasto S, et al. **Eur Radiol** 1997;7(5):732–6

Heparan sulfate proteoglycans play a dual role in regulating fibroblast growth factor–2 mitogenic activity in human breast cancer cells. Delehedde M, et al. **Exp Cell Res** 1996 Dec 15;229(2):398–406

Overexpressed IGF–I receptors reduce estrogen growth requirements, enhance survival, and promote E–cadherin–mediated cell–cell adhesion in human breast cancer cells. Guvakova MA, et al. **Exp Cell Res** 1997 Feb 25;231(1):149–62

Modulation of myoepithelial–associated alpha6beta4 integrin in a breast cancer cell line alters invasive potential. Jones JL, et al. **Exp Cell Res** 1997 Sep 15;235(2):325–33

Retinoic acid inhibition of cell cycle progression in MCF–7 human breast cancer cells. Zhu WY, et al. **Exp Cell Res** 1997 Aug 1;234(2):293–9

Angiogenesis as a biologic and prognostic indicator in human breast carcinoma. Engels K, et al. **EXS** 1997;79:113–56 (311 ref.)

In vitro cytotoxic effects of tumor necrosis factor–alpha in human breast cancer cells may be associated with increased glucose consumption. Kaplan O, et al. **FEBS Lett** 1997 Apr 7;406(1–2):175–8

Bilateral radiotherapy in cases of one–sided choroidal metastases. Tkocz HJ, et al. **Front Radiat Ther Oncol** 1997; 30:160–4

Radiotherapy for choroidal metastases: interim analysis of a prospective study of the ARO(ARO 95–08). Wiegel T, et al. **Front Radiat Ther Oncol** 1997;30:154–9

Malignant cystosarcoma phyllodes tumor of the breast mainly composed of chondrosarcoma: a case report. Iihara K, et al. **Gen Diagn Pathol** 1997 Feb;142(3–4):241–5

Nuclear grade in invasive ductal breast carcinoma. Comparative study on nuclear grade and morphometric parameters, hormonal receptor status, flow cytometric analysis and lectin histochemistry. Jonjić N, et al. **Gen Diagn Pathol** 1996 Oct;142(2):83–8

Different cytogenetic patterns in skeletal breast cancer metastases. Adeyinka A, et al. **Genes Chromosomes Cancer** 1996 May;16(1):72–4

Multiple giant fibroadenomas: clinical presentation and radiologic findings. Schneider B, et al. **Gynecol Obstet Invest** 1997;43(4):278–80

Metastatic breast carcinoma to the abdomen and pelvis. Abu–Rustum NR, et al. **Gynecol Oncol** 1997 Jul;66(1):41–4

Ovarian volume in postmenopausal breast cancer patients treated with tamoxifen. Cohen I, et al. **Gynecol Oncol** 1997 Jan;64(1):105–8

Fine–needle aspiration in the diagnosis of metastatic ovarian cancer to the breast. Hennigan CA, et al. **Gynecol Oncol** 1997 Mar;64(3):533–40 (32 ref.)

Adenocarcinoma of the breast metastatic to benign ovarian fibroma. Perry LJ, et al. **Gynecol Oncol** 1996 Sep; 62(3):408–10

Analysis of DNA and morphometry in breast carcinoma. Aubele M, et al. **Histochem Cell Biol** 1996 Aug; 106(2):241–5

Nuclear image analysis of immunohistochemically stained cells in breast carcinomas. Haroske G, et al. **Histochem Cell Biol** 1996 Jun;105(6):479–85

Localization of binding sites of Ulex europaeus I, Helix pomatia and Griffonia simplicifolia I-B4 lectins and analysis of their backbone structures by several glycosidases and poly-N-acetyllactosamine-specific lectins in human breast carcinomas. Ito N, et al. **Histochem Cell Biol** 1996 Sep; 106(3):331-9

Three-dimensional reconstruction by confocal laser scanning microscopy in routine pathologic specimens of benign and malignant lesions of the human breast. Liu S, et al. **Histochem Cell Biol** 1997 Apr;107(4):267-78

The effects of chemotherapy on breast cancer tissue in locally advanced breast cancer [see comments] Aktepe F, et al. **Histopathology** 1996 Jul;29(1):63-7. Comment in: Histopathology 1997 Apr;30(4):397-8.

Mammary mucinous lesions: congeners, prevalence and important pathological associations. Chinyama CN, et al. **Histopathology** 1996 Dec;29(6):533-9

Poorly differentiated myoepithelial cell rich carcinoma of the breast. Damiani S, et al. **Histopathology** 1997 Jun; 30(6):542-8

Mammary adenohibernoma. Damiani S, et al. **Histopathology** 1996 Jun;28(6):554-5

Traumatic arterial damage after fine-needle aspirational cytology in mammary complex sclerosing lesions. Davies JD, et al. **Histopathology** 1996 Jan;28(1):65-70

Pathology of R4 spiculated lesions in the breast screening programme. Douglas-Jones AG, et al. **Histopathology** 1997 Mar;30(3):214-20

p53 expression in intraductal epithelial hyperplasia, atypical intraductal hyperplasia, and intraductal carcinoma of the breast [letter; comment] Fischler DF, et al. **Histopathology** 1996 Jan;28(1):93-4. Comment on: Histopathology 1995 May;26(5):439-43.

Atypical leiomyomatous features in myofibroblastoma of the breast [letter] Fukunaga M, et al. **Histopathology** 1996 Dec; 29(6):592-3

Comparison of cytomorphological and architectural heterogeneity in mammographically-detected ductal carcinoma in situ. Harrison M, et al. **Histopathology** 1996 May;28(5):445-50

Breast cancer: two micrometastatic variants in the axilla that differ in prognosis. Hartveit F, et al. **Histopathology** 1996 Mar;28(3):241-6

Heterogeneity of mitotic activity in breast cancer [see comments]] Janninik I, et al. **Histopathology** 1996 Nov; 29(5):421-8. Comment in: Histopathology 1996 Nov;29(5):485-8.

Medullary breast carcinoma vs. poorly differentiated ductal carcinoma: an immunohistochemical study with keratin 19 and oestrogen receptor staining. Jensen ML, et al. **Histopathology** 1996 Sep;29(3):241-5

Prognostic comparison of three classifications for medullary carcinomas of the breast. Jensen ML, et al. **Histopathology** 1997 Jun;30(6):523-32

Immunohistochemical assessment of proliferative activity in mammary adenomyoepithelioma. Koyama M, et al. **Histopathology** 1997 Aug;31(2):134-9

Lymphocytic lobulitis and carcinoma of the breast [letter; comment] Lee AH, et al. **Histopathology** 1996 Jan; 28(1):94-5. Comment on: Histopathology 1995 Jun;26(6):579-80.

Effects of chemotherapy on breast cancer tissue [letter; comment] Miller KE, et al. **Histopathology** 1997 Apr; 30(4):397-8. Comment on: Histopathology 1996 Jul;29(1):63-7.

Cancerization of phyllodes tumour [letter] Naresh KN. **Histopathology** 1997 Jan;30(1):98-9

Spindle cell non-argyrophil carcinoma of the breast with neuroendocrine differentiation. Paties C, et al. **Histopathology** 1996 Nov;29(5):471-3

Ductal carcinoma in situ of the breast: the clinical significance of histological classification. Quinn CM, et al. **Histopathology** 1997 Feb;30(2):113-9

Mammary fibroadenoma and some phyllodes tumour stroma are composed of CD34+ fibroblasts and factor XIIIa+ dendrophages. Silverman JS, et al. **Histopathology** 1996 Nov;29(5):411-9

Quantitative image cytometry of infiltrating ductal carcinoma: comparison with prognostic parameters and reproducibility of histological grade. Frierson HF Jr, et al. **Hum Pathol** 1996 Aug;27(8):821-6

Morphological and biological characteristics of mammogram-detected invasive breast cancer. Moezzi M, et al. **Hum Pathol** 1996 Sep;27(9):944-8

Cathepsin D in host stromal cells, but not in tumor cells, is associated with aggressive behavior in node-negative breast cancer [see comments] Nadji M, et al. **Hum Pathol** 1996 Sep;27(9):890-5. Comment in: Hum Pathol 1996 Sep;27(9):869-71.

The predictive power of semiquantitative immunohistochemical assessment of p53 and c-erb B-2 in lymph node-negative breast cancer. O'Malley FP, et al. **Hum Pathol** 1996 Sep;27(9):955-63

Breast papillomas with atypical ductal hyperplasia: a clinicopathologic study. Raju U, et al. **Hum Pathol** 1996 Nov;27(11):1231-8

Ductal carcinoma in situ [letter; comment] Rosai J. **Hum Pathol** 1996 Nov;27(11):1247. Comment on: Hum Pathol 1996 Jul;27(7):744.

Microsatellite alterations indicating monoclonality in atypical hyperplasias associated with breast cancer. Rosenberg CL, et al. **Hum Pathol** 1997 Feb;28(2):214-9

Ductal carcinoma in situ of the breast: reproducibility of histological subtype analysis [see comments] Scott MA, et al. **Hum Pathol** 1997 Aug;28(8):967-73. Comment in: Hum Pathol 1997 Aug;28(8):877-80.

Three-dimensional growth patterns of various human tumor cell lines in simulated microgravity of a NASA bioreactor. Ingram M, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun; 33(6):459-66

Collagenase III: a superior enzyme for complete disaggregation and improved viability of normal and malignant human breast tissue [letter] Speirs V, et al. **In Vitro Cell Dev Biol Anim** 1996 Feb;32(2):72-4

Cytology. A valuable tool in prognostication of carcinoma breast. Singh UR, et al. **Indian J Cancer** 1996 Dec; 33(4):187-91

Evaluation of significance of AgNOR counts in differentiating benign from malignant lesions in the breast [published erratum appears in Indian J Pathol Microbiol 1995 Apr;38(2):138] Dube MK, et al. **Indian J Pathol Microbiol** 1995 Jan;38(1):5-10

Bilateral mammary metastasis of alveolar soft part sarcoma--a case report. Muzumdar GA, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):325-7

Value of AgNORS in fine needle aspiration cytology of breast lesions. Rajeevan K, et al. **Indian J Pathol Microbiol** 1995 Jan;38(1):17-24

Cell surface CD44v5 levels correlate with progesterone receptors and a tumor size > 2 cm in infiltrating ductal carcinomas of the breast [letter] Nuñez MI, et al. **Int J Biol Markers** 1996 Oct-Dec;11(4):220-2

Extratumoral breast tissue in breast cancer patients: a multinational study of variations with age and country of residence in low- and high-risk countries. WHO Collaborative Study of Neoplasia and Steroid Contraceptives. Aaman TB, et al. **Int J Cancer** 1997 May 2;71(3):333-9

Prognostic implications of different cell cycle analysis models of flow cytometric DNA histograms of 1,301 breast cancer patients: results from the Multicenter Morphometric Mammary Carcinoma Project (MMMCP). Bergers E, et al. **Int J Cancer** 1997 Jun 20;74(3):260-9

NM23 gene expression in human breast carcinomas: loss of correlation with cell proliferation in the advanced phase of tumor progression. Caligo MA, et al. **Int J Cancer** 1997 Feb 20;74(1):102-11

Automated and quantitative immunocytochemical assays of Nm23/NDPK protein in breast carcinomas. Charpin C, et al. **Int J Cancer** 1997 Aug 22;74(4):416-20

Effect of stromal and epithelial cells derived from normal and tumorous breast tissue on the proliferation of human breast cancer cell lines in co-culture. Dong-Le Bourhis X, et al. **Int J Cancer** 1997 Mar 28;71(1):42-8

Induction of apoptosis by tamoxifen and ICI 182780 in primary breast cancer. Ellis PA, et al. **Int J Cancer** 1997 Aug 7;72(4):608-13

Chromosome 1 aneusomy with 1p36 under-representation is related to histologic grade, DNA aneuploidy, high c-erb B-2 and loss of bcl-2 expression in ductal breast carcinoma. Farabegoli F, et al. **Int J Cancer** 1996 Oct 21;69(5):381-5

Effect of mts1 (S100A4) expression on the progression of human breast cancer cells. Grigorian M, et al. **Int J Cancer** 1996 Sep 17;67(6):831-41

Quantitative analysis of tryptase and chymase containing mast cells in benign and malignant breast lesions. Kankkunen JP, et al. **Int J Cancer** 1997 Jul 29;72(3):385-8

Epidermal growth factor and amphiregulin up-regulate matrix metalloproteinase-9 (MMP-9) in human breast cancer cells. Kondapaka SB, et al. **Int J Cancer** 1997 Mar 17;70(6):722-6

Loss of heterozygosity at the TP53 gene: independent occurrence from genetic instability events in node-negative breast cancer. Lizard-Nacol S, et al. **Int J Cancer** 1997 Aug 7;72(4):599-603

Ki-67 immunostaining in 322 primary breast cancers: associations with clinical and pathological variables and prognosis. Molino A, et al. **Int J Cancer** 1997 Aug 22; 74(4):433-7

Stimulation of interleukin-11 production from osteoblast-like cells by transforming growth factor-beta and tumor cell factors. Morinaga Y, et al. **Int J Cancer** 1997 May 2; 71(3):422-8

Effect of Matrigel on the tumorigenicity of human breast and ovarian carcinoma cell lines. Mullen P, et al. **Int J Cancer** 1996 Sep 17;67(6):816-20

Vascular endothelial growth factor (VEGF) in human breast cancer: correlation with disease-free survival. Obermair A, et al. **Int J Cancer** 1997 Aug 22;74(4):455-8

Brain metastasis model in athymic nude mice using a novel MUC1-secreting human breast-cancer cell line, MA11. Rye PD, et al. **Int J Cancer** 1996 Nov 27;68(5):682-7

Paclitaxel-induced apoptosis in MCF-7 breast-cancer cells. Saunders DE, et al. **Int J Cancer** 1997 Jan 17;70(2):214-20

Cell proliferation in 3,800 node-negative breast cancers: consistency over time of biological and clinical information provided by 3H-thymidine labelling index. Silvestrini R, et al. **Int J Cancer** 1997 Feb 20;74(1):122-7

Discrimination of fibroblast subtypes by multivariate analysis of gene expression. Spanakis E, et al. **Int J Cancer** 1997 May 2;71(3):402-9

Effects of all-trans-retinoic acid and 13-cis-retinoic acid on breast-cancer cell lines: growth inhibition and apoptosis induction. Toma S, et al. **Int J Cancer** 1997 Mar 4; 70(5):619-27

The value of breast lumpectomy margin assessment as a predictor of residual tumor burden. Wazer DE, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):291-9

Effects of methylcobalamin on the proliferation of androgen-sensitive or estrogen-sensitive malignant cells in culture and in vivo. Nishizawa Y, et al. **Int J Vitam Nutr Res** 1997;67(3):164-70

Percutaneous large core needle biopsy versus surgical biopsy in the diagnosis of breast lesions. Anania G, et al. **Int Surg** 1997 Jan-Mar;82(1):52-5

Bilateral primary breast cancers: a clinicopathological study of the second primary. Awad AT, et al. **Int Surg** 1996 Jan-Mar;81(1):57-60

E-cadherin mRNA expression in breast carcinomas correlates with overall and disease-free survival. Guriec N, et al. **Invasion Metastasis** 1996;16(1):19-26

Micrometastases to the axilla in breast cancer: their size and season of presentation. Hartveit F. **Invasion Metastasis** 1996;16(3):144-9

Correlation between bone scan findings and collagenase activities in patients with breast cancer. Kim CG, et al. **Invest Radiol** 1997 May;32(5):302-5

Synchronous metastatic breast cancer in a husband and wife. Kerin MJ, et al. **Ir J Med Sci** 1996 Jan-Mar;165(1):50

Generalized cutaneous metastases from breast adenocarcinoma. Gade JN, et al. **J Am Acad Dermatol** 1997 Jul;37(1):129-30

Superficial papillary adenomatosis of the nipple [letter; comment] Moulin G. **J Am Acad Dermatol** 1997 Jan; 36(1):133. Comment on: J Am Acad Dermatol 1995 Nov;33(5 Pt 2):871-5.

Axillary lymph node dissection: is it required in T1a breast cancer? Chontos AJ, et al. **J Am Coll Surg** 1997 May; 184(5):493-8

Is axillary dissection necessary for T1 carcinoma of the breast? [editorial; comment] Copeland EM 3rd. **J Am Coll Surg** 1997 Apr;184(4):397-8. Comment on: J Am Coll Surg 1997 Apr;184(4):341-5.

The role of axillary dissection in mammographically detected carcinoma [see comments] Pandelidis SM, et al. **J Am Coll Surg** 1997 Apr;184(4):341-5. Comment in: J Am Coll Surg 1997 Apr;184(4):397-8.

Perioperative stimulation of residual cancer cells promotes local and distant recurrence of breast cancer. Reid SE, et al. **J Am Coll Surg** 1997 Sep;185(3):290-306 (143 ref.)

Axillary lymph node metastasis in carcinoma of the breast [letter; comment] Shetty MR. **J Am Coll Surg** 1997 Jun; 184(6):671-3. Comment on: J Am Coll Surg 1996 Dec;183(6):575-82.

Analysis of malignancy detected by needle-localized breast biopsy [see comments] Hillhouse RA, et al. **J Am Osteopath Assoc** 1996 Jul;96(7):398-400. Comment in: J Am Osteopath Assoc 1996 Jul;96(7):317.

Metaplastic breast carcinoma. Smith DM, et al. **J Am Osteopath Assoc** 1996 Jul;96(7):419-21

IkappaB alpha overexpression in human breast carcinoma MCF7 cells inhibits nuclear factor-kappaB activation but not tumor necrosis factor-alpha-induced apoptosis. Cai Z, et al. **J Biol Chem** 1997 Jan 3;272(1):96-101

Blockade of transforming growth factor-beta signaling does not abrogate antiestrogen-induced growth inhibition of human breast carcinoma cells. Koli KM, et al. **J Biol Chem** 1997 Mar 28;272(13):8296-302

Retinoic acid-induced expression of apolipoprotein D and concomitant growth arrest in human breast cancer cells are mediated through a retinoic acid receptor RARalpha-dependent signaling pathway. López-Boado YS, et al. **J Biol Chem** 1996 Dec 13;271(50):32105-11

Expression of transforming growth factor beta type III receptor suppresses tumorigenicity of human breast cancer MDA-MB-231 cells. Sun L, et al. **J Biol Chem** 1997 Oct 3;272(40):25367-72

Human breast cancer growth inhibited in vivo by a dominant negative pleiotrophin mutant. Zhang N, et al. **J Biol Chem** 1997 Jul 4;272(27):16733-6

Bone sialoprotein expression in primary human breast cancer is associated with bone metastases development. Bellahcene A, et al. **J Bone Miner Res** 1996 May;11(5):665-70

Cell-cycle arrest, micronucleus formation, and cell death in growth inhibition of MCF-7 breast cancer cells by tamoxifen and cisplatin. Otto AM, et al. **J Cancer Res Clin Oncol** 1996;122(10):603-12

Retinoic acid induced growth arrest of human breast carcinoma cells requires protein kinase C alpha expression and activity. Cho Y, et al. **J Cell Physiol** 1997 Sep; 172(3):306-13

Glucose deprivation-induced cytotoxicity in drug resistant human breast carcinoma MCF-7/ADR cells: role of c-myc and bcl-2 in apoptotic cell death. Lee YJ, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):681-6

Analysis of the evolution of operated breast cancer. Cherubini M, et al. **J Chemother** 1997 Apr;9(2):129-30

The importance of histologic type on breast cancer survival. Northridge ME, et al. **J Clin Epidemiol** 1997 Mar; 50(3):283-90

When bad gene transfer is good [editorial; comment] Wilson JM. **J Clin Invest** 1996 Dec 1;98(11):2435. Comment on: J Clin Invest 1996 Dec 1;98(11):2539-48.

Inhibition of osteolytic bone metastasis of breast cancer by combined treatment with the bisphosphonate ibandronate and tissue inhibitor of the matrix metalloproteinase-2.

Yoneda T, et al. **J Clin Invest** 1997 May 15;99(10):2509–17

Double dose–intensive chemotherapy with autologous stem–cell support for metastatic breast cancer: no improvement in progression–free survival by the sequence of high–dose melphalan followed by cyclophosphamide, thiotepa, and carboplatin. Ayash LJ, et al. **J Clin Oncol** 1996 Nov;14(11):2984–92

Delay in progression of bone metastases in breast cancer patients treated with intravenous pamidronate: results from a multinational randomized controlled trial. The Aredia Multinational Cooperative Group. Conte PF, et al. **J Clin Oncol** 1996 Sep;14(9):2552–9

Effect of preoperative chemotherapy on local–regional disease in women with operable breast cancer: findings from National Surgical Adjuvant Breast and Bowel Project B–18 [see comments] Fisher B, et al. **J Clin Oncol** 1997 Jul;15(7):2483–93. Comment in: J Clin Oncol 1997 Jul;15(7):2479–82.

Sentinel lymphadenectomy in breast cancer. Giuliano AE, et al. **J Clin Oncol** 1997 Jun;15(6):2345–50

Ifosfamide and vinorelbine as first–line chemotherapy for metastatic breast cancer. Leone BA, et al. **J Clin Oncol** 1996 Nov;14(11):2993–9

Compliance with practice guidelines for node–negative breast cancer. Olivotto A, et al. **J Clin Oncol** 1997 Jan; 15(1):216–22

HER–2/neu gene amplification characterized by fluorescence in situ hybridization: poor prognosis in node–negative breast carcinomas. Press MF, et al. **J Clin Oncol** 1997 Aug; 15(8):2894–904

Natural history of node–positive breast cancer: the curability of small cancers with a limited number of positive nodes. Quiet CA, et al. **J Clin Oncol** 1996 Dec;14(12):3105–11

Bone marrow granulomas in infiltrating lobular breast cancer. Kettle P, et al. **J Clin Pathol** 1997 Feb;50(2):166–8

Clear cell mammary malignant myoepithelioma with abundant glycogens. Kuwabara H, et al. **J Clin Pathol** 1997 Aug;50(8):700–2

Non–specifically labelled cells that simulate bone marrow metastases in patients with non–metastatic breast cancer. Lagrange M, et al. **J Clin Pathol** 1997 Mar;50(3):206–11

Proliferative activity in invasive breast carcinoma [editorial; comment] Pinder SE, et al. **J Clin Pathol** 1996 Nov; 49(11):868–9. Comment on: J Clin Pathol 1996 Nov;49(11):926–30.

Cytological and architectural heterogeneity in ductal carcinoma in situ of the breast. Quinn CM, et al. **J Clin Pathol** 1997 Jul;50(7):596–9

Value of axillary ultrasonography and sonographically guided puncture of axillary nodes: a prospective study in 144 consecutive patients. Verbanck J, et al. **J Clin Ultrasound** 1997 Feb;25(2):53–6

Helical CT for detecting focal liver lesions in patients with breast carcinoma: comparison of noncontrast phase, hepatic arterial phase, and portal venous phase. Frederick MG, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):229–35

The diagnostic accuracy/efficacy of MRI in differentiating hepatic hemangiomas from metastatic colorectal/breast carcinoma: a multiple reader ROC analysis using a jackknife technique. Lee MG, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):905–13

An unusual case of adrenal failure due to isolated metastases of breast cancer. Davi MV, et al. **J Endocrinol Invest** 1996 Jul–Aug;19(7):488–9

Laparoscopic diagnosis of malignant retroperitoneal fibrosis. Kava BR, et al. **J Endourol** 1996 Dec;10(6):535–8

Breast carcinoma in Pakistani women. Usmani K, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):251–3

Breast cancer in pregnant and lactating women. Usmani K, et al. **J Environ Pathol Toxicol Oncol** 1995;14(3–4):227–34

DNA flow cytometric measurements in breast cancer: a review of the instrumentation principles and clinical significance. Berho M, et al. **J Fla Med Assoc** 1997 Feb; 84(2):104–10 (44 ref.)

Needle core biopsy [letter] Rush JC. **J Fla Med Assoc** 1996 Mar;83(3):212

Tumor cell contamination of bone marrow harvest products: clinical consequences in a cohort of advanced–stage breast cancer patients undergoing high–dose chemotherapy. Brockstein BE, et al. **J Hematother** 1996 Dec;5(6):617–24

Optimization of CD34+ cell selection using immunomagnetic beads: implications for use in cryopreserved peripheral blood stem cell collections. Farley TJ, et al. **J Hematother** 1997 Feb;6(1):53–60

Immunomagnetic techniques for the enrichment and detection of isolated breast carcinoma cells in bone marrow and peripheral blood. Naume B, et al. **J Hematother** 1997 Apr;6(2):103–14

Comparative analysis of breast cancer contamination in mobilized and nonmobilized hematopoietic grafts. Ross AA, et al. **J Hematother** 1996 Oct;5(5):549–52

Immunocytochemical detection of breast cancer cells: a comparison of three attachment factors. Theocharous P, et al. **J Hematother** 1997 Feb;6(1):21–9

Differential expression of CD66a (BGP), a cell adhesion molecule of the carcinoembryonic antigen family, in benign, premalignant, and malignant lesions of the human mammary gland. Riethdorf L, et al. **J Histochem Cytochem** 1997 Jul;45(7):957–63

Experiences with fine needle aspiration cytology as a diagnostic procedure for breast lesions in a Calcutta Hospital. Chattopadhyay R, et al. **J Indian Med Assoc** 1995 Oct;93(10):372–4

Gastric metastasis of mammary signet ring cell carcinoma––a differential diagnosis with primary gastric signet ring cell carcinoma. Yim H, et al. **J Korean Med Sci** 1997 Jun; 12(3):256–61

Use of two view mammography compared with one view in the detection of small invasive cancers: further results from the National Health Service breast screening programme. Blanks RG, et al. **J Med Screen** 1997; 4(2):98–101

Unbiased stereological estimation of the number and volume of nuclei and nuclear size variability in invasive ductal breast carcinomas. Artacho–Pérula E, et al. **J Microsc** 1997 May;186 (Pt 2):133–42

Generalized region growing operator with optimal scanning: application to segmentation of breast cancer images. Belhomme P, et al. **J Microsc** 1997 Apr;186 (Pt 1):41–50

Nonlinear deterministic analysis of tissue texture: a stereological study on mastopathic and mammary cancer tissue using chaos theory. Mattfeldt T. **J Microsc** 1997 Jan; 185 (Pt 1):47–66

Time for integration of predictive factors for selection of breast cancer patients who need postoperative radiation therapy? [editorial; comment] Bergh J. **J Natl Cancer Inst** 1997 May 7;89(9):605–7 (31 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):639–45.

Studying mammographic density: implications for understanding breast cancer [editorial; comment] Byrne C. **J Natl Cancer Inst** 1997 Apr 16;89(8):531–3. Comment on: J Natl Cancer Inst 1997 Apr 16;89(8):549–56.

Relationship between the size and margin status of ductal carcinoma in situ of the breast and residual disease [see comments] Cheng L, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1356–60. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1330–1.

Micrometastatic breast cancer cells in bone marrow at primary surgery: prognostic value in comparison with nodal status. Diel IJ, et al. **J Natl Cancer Inst** 1996 Nov 20;88(22):1652–8

Association of tumor angiogenesis with bone marrow micrometastases in breast cancer patients. Fox SB, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1044–9

Ductal carcinoma in situ of the breast: a new model [editorial; comment] Hayes DF. **J Natl Cancer Inst** 1997 Jul 16; 89(14):991–3 (17 ref.). Comment on: J Natl Cancer Inst 1997 Jul 16;89(14):1059–65.

Predicting residual disease and local recurrence in patients with ductal carcinoma in situ [editorial; comment] Silverstein MJ. **J Natl Cancer Inst** 1997 Sep 17; 89(18):1330–1. Comment on: J Natl Cancer Inst 1997 Sep 17;89(18):1356–60.

Re: the p53 gene in breast cancer: prognostic value of complementary DNA sequencing versus immunohistochemistry [letter] Silvestrini R. **J Natl Cancer Inst** 1996 Oct 16;88(20):1499–500

Postchemotherapy adjuvant tamoxifen therapy beyond five years in patients with lymph node–positive breast cancer. Eastern Cooperative Oncology Group [see comments] Tormey DC, et al. **J Natl Cancer Inst** 1996 Dec 18; 88(24):1828–33. Comment in: J Natl Cancer Inst 1996 Dec 18;88(24):1791–3.

Research on bone metastases quickens its pace [news] Ziegler J. **J Natl Cancer Inst** 1997 Jun 18;89(12):841–3

Carcinomatous meningitis secondary to breast cancer: predictors of response to combined modality therapy. Chamberlain MC, et al. **J Neurooncol** 1997 Oct;35(1):55–64

Gliomatosis cerebri mimicking a metastatic breast cancer: fatal outcome. Iglesias A, et al. **J Neurooncol** 1997 Apr; 32(2):175–8

Breast cancer metastatic to uterine leiomyoma: a case report. Sugiyama T, et al. **J Obstet Gynaecol** 1995 Aug; 21(4):349–55 (21 ref.)

Significant morbidity associated with bone metastases in a patient with breast cancer. Oneschuk D, et al. **J Palliat Care** 1996 Winter;12(4):51–4

Computerized scene segmentation for the discrimination of architectural features in ductal proliferative lesions of the breast. Anderson NH, et al. **J Pathol** 1997 Apr; 181(4):374–80

The pathological and biological nature of screen–detected breast carcinomas: a morphological and immunohistochemical study. Cowan WK, et al. **J Pathol** 1997 May;182(1):29–35

Differentiation pathways in primary invasive breast carcinoma as suggested by intermediate filament and biopathological marker expression. Santini D, et al. **J Pathol** 1996 Aug;179(4):386–91

Photodynamic therapy of cutaneous metastases of breast cancer after local application of meso–tetra–(para–sulphophenyl)–porphin (TPPS4). Lapeš M, et al. **J Photochem Photobiol B** 1996 Nov;36(2):205–7

Metastasis from carcinoma of breast masquerading as chilblains. Tan BB, et al. **J R Soc Med** 1997 Mar;90(3):162

Fibromatosis of the breast or carcinoma? Yiangou C, et al. **J R Soc Med** 1996 Nov;89(11):638–40

Vulvar metastasis of breast carcinoma. A case report. Curtin WM, et al. **J Reprod Med** 1997 Jan;42(1):61–3

Effects of 1,25 dihydroxyvitamin D3 and its analogues on induction of apoptosis in breast cancer cells. James SY, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):395–401

Inhibition of placental estrone sulfatase activity and MCF–7 breast cancer cell proliferation by estrone–3–amino derivatives. Selcer KW, et al. **J Steroid Biochem Mol Biol** 1996 Sep;59(1):83–91

1,25–Dihydroxyvitamin D3 induces morphological and biochemical markers of apoptosis in MCF–7 breast cancer cells. Simboli–Campbell M, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):367–76

DNA–containing cytoplasmic bridges in a human breast cancer cell line, MX–1: morphological markers of a highly mobile cell type? Wolf KW, et al. **J Submicrosc Cytol Pathol** 1996 Jul;28(3):369–73

Identification of women with T1–T2 breast cancer at low risk of positive axillary nodes. Fein DA, et al. **J Surg Oncol** 1997 May;65(1):34–9

Breast cancer: a different cancer? [editorial] Gardner B. **J Surg Oncol** 1996 Nov;63(3):139–40

Argyrophilic nucleolar organizer regions: their value and correlation with clinical prognostic factors in breast carcinoma. Kumar A, et al. **J Surg Oncol** 1997 Jul; 65(3):201–4

Outcome of surgical resection for chest wall recurrence in breast cancer patients. Toi M, et al. **J Surg Oncol** 1997 Jan;64(1):23–6

Color Doppler flow as an indicator of nodal metastasis in solid breast masses. Kubek KA, et al. **J Ultrasound Med** 1996 Dec;15(12):835–41

Nonpalpable breast lesions: pathologic correlation of ultrasonographically guided fine–needle aspiration biopsy. Saarela AO, et al. **J Ultrasound Med** 1996 Aug; 15(8):549–53; quiz 555–6

Identifying and targeting breast lesions with US. Shortsleeve MJ, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):125–6

Lymphatic mapping and sentinel node biopsy in the patient with breast cancer [see comments] Albertini JJ, et al. **JAMA** 1996 Dec 11;276(22):1818–22. Comment in: JAMA 1997 Mar 12;277(10):791–2.

Lymphatic mapping and sentinel node biopsy in breast cancer [letter; comment] Giuliano AE. **JAMA** 1997 Mar 12; 277(10):791–2. Comment on: JAMA 1996 Dec 11;276(22):1818–22.

Is carcinoma breast a different disease in Pakistani population? Ahmed R, et al. **JPMA J Pak Med Assoc** 1997 Apr;47(4):114–6

Needle localization of non–palpable breast lesions. Khan S, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):149–52

Prognostic factors in stage–I breast cancer: a retrospective study. Parveen S, et al. **JPMA J Pak Med Assoc** 1997 Apr; 47(4):117–8

Application of image analysis and neural networks to the pathology diagnosis of intraductal proliferative lesions of the breast. Fukushima N, et al. **Jpn J Cancer Res** 1997 Mar;88(3):328–33

Fibrotic focus in invasive ductal carcinoma of the breast: a histopathological prognostic parameter for tumor recurrence and tumor death within three years after the initial operation. Hasebe T, et al. **Jpn J Cancer Res** 1997 Jun;88(6):590–9

Immunoreaction at 43 kDa with anti–ubiquitin antibody in breast neoplasms. Iwaya K, et al. **Jpn J Cancer Res** 1997 Mar;88(3):273–80

Clinicopathological characteristics of primary breast cancer in older geriatric women: a study of 39 Japanese patients over 80 years old. Morishita Y, et al. **Jpn J Cancer Res** 1997 Jul;88(7):693–9

Expression and roles of heat shock proteins in human breast cancer. Yano M, et al. **Jpn J Cancer Res** 1996 Sep; 87(9):908–15

Spindle cell carcinoma of the breast. Maemura M, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):46–50

A case of angiosarcoma of the breast. Ohta M, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):91–4

Myofibroblastoma of the breast: a case report. Wen MC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 May; 13(5):320–3

Implication of collagen type I–induced membrane–type 1–matrix metalloproteinase expression and matrix metalloproteinase–2 activation in the metastatic progression of breast carcinoma. Gilles C, et al. **Lab Invest** 1997 May; 76(5):651–60

Scatter factor stimulates tumor growth and tumor angiogenesis in human breast cancers in the mammary fat pads of nude mice. Lamszus K, et al. **Lab Invest** 1997 Mar; 76(3):339–53

Sentinel–node biopsy in breast cancer [letter] Atkins CD, et al. **Lancet** 1997 Sep 13;350(9080):808; discussion 809

Multicentricity and recurrence of breast cancer [letter; comment] Baum M, et al. **Lancet** 1997 Jan 18;349(9046):208 . Comment on: Lancet 1996 Nov 9;348(9037):1256–7.

Intradermal blue dye to identify sentinel lymph–node in breast cancer [letter] Borgstein PJ, et al. **Lancet** 1997 Jun 7;349(9066):1668–9

Miltefosine in recurrent cutaneous breast cancer [letter] Clive S, et al. **Lancet** 1997 Mar 1;349(9052):621–2

Preoperative chemotherapy induces apoptosis in early breast cancer [letter] Ellis PA, et al. **Lancet** 1997 Mar 22; 349(9055):849

Are breast cancers in young women qualitatively distinct? [see comments] Henderson IC, et al. **Lancet** 1997 May 24; 349(9064):1488–9. Comment in: Lancet 1997 May 24;349(9064):1505–10.

Breast–duct endoscopy to study stages of cancerous breast disease. Love SM, et al. **Lancet** 1996 Oct 12;

348(9033):997-9
Sentinel-node biopsy in breast cancer [letter] Nieweg OE, et al. **Lancet** 1997 Sep 13;350(9080):808; discussion 809
Multicentricity and recurrence of breast cancer [see comments] Sacchini V. **Lancet** 1996 Nov 9; 348(9037):1256-7. Comment in: Lancet 1997 Jan 18;349(9046):208. Comment in: Lancet 1997 Jan 18;349(9046):208-9.
Sentinel-node biopsy in breast cancer [letter] Torné A, et al. **Lancet** 1997 Sep 13;350(9080):808-9; discussion 809
Sentinel-node biopsy to avoid axillary dissection in breast cancer with clinically negative lymph-nodes. Veronesi U, et al. **Lancet** 1997 Jun 28;349(9069):1864-7
Is there a correlation in breast carcinomas between tumor size and number of tumor vessels detected by gadolinium-enhanced magnetic resonance mammography? Siewert C, et al. **MAGMA** 1997 Mar;5(1):29-31
Quantitative diffusion imaging in implanted human breast tumors. Maier CF, et al. **Magn Reson Med** 1997 Apr; 37(4):576-81
Histopathological reporting of breast biopsies and mastectomies for carcinoma of the breast. Looi LM. **Malays J Pathol** 1994 Dec;16(2):173 (0 ref.)
The role of large core needle biopsy in locally advanced breast cancer. Pace ME, et al. **Md Med J** 1997 Sep; 46(8):419-23
Primary and metastatic rhabdomyosarcoma in the breast: neoplasms of adolescent females, a report from the Intergroup Rhabdomyosarcoma Study. Hays DM, et al. **Med Pediatr Oncol** 1997 Sep;29(3):181-9
Correlation of the fractions of proliferating tumor and endothelial cells in breast and colorectal adenocarcinoma is independent of tumor histiotype and microvessel density. Vermeulen PB, et al. **Microvasc Res** 1997 Jul;54(1):88-92
Recommendations for the reporting of breast carcinoma. Association of Directors of Anatomic and Surgical Pathology. **Mod Pathol** 1996 Jan;9(1):77-81
Surfactant proteins and thyroid transcription factor-1 in pulmonary and breast carcinomas. Bejarano PA, et al. **Mod Pathol** 1996 Apr;9(4):445-52
The role of wide-spectrum cytokeratin staining of the bone marrow cores in patients with ductal carcinoma of the breast. Dunphy CH. **Mod Pathol** 1996 Oct;9(10):955-8
DNA analysis and S-phase fraction determination by flow cytometric analysis of infiltrating lobular carcinoma of the breast. Frost AR, et al. **Mod Pathol** 1996 Sep;9(9):930-7
Correspondence re: Sharkey FE, Addington SL, Fowler LJ, Page CP. Effects of preoperative chemotherapy on the morphology of resectable breast carcinoma. Mod Pathol 1996;9:893-900 [letter; comment] Gilks CB. **Mod Pathol** 1997 Feb;10(2):155-6. Comment on: Mod Pathol 1996 Sep;9(9):893-900.
Uncommon presentation of mammary myofibroblastoma [see comments] Hamele-Bena D, et al. **Mod Pathol** 1996 Jul; 9(7):786-90. Comment in: Mod Pathol 1997 Mar;10(3):270-2.
The role of immunocytochemical markers in the differential diagnosis of proliferative and neoplastic lesions of the breast. Joshi MG, et al. **Mod Pathol** 1996 Jan;9(1):57-62
Prognostic value of S-phase fraction in lymph-node-negative breast cancer by image and flow cytometric analysis. Peiró G, et al. **Mod Pathol** 1997 Mar; 10(3):216-22
Metaplastic carcinoma of the breast with melanocytic differentiation. Ruffolo EF, et al. **Mod Pathol** 1997 Jun; 10(6):592-6
Effects of preoperative chemotherapy on the morphology of resectable breast carcinoma [see comments] Sharkey FE, et al. **Mod Pathol** 1996 Sep;9(9):893-900. Comment in: Mod Pathol 1997 Feb;10(2):155-6.
Correspondence re: Hamele-Bena D, Cranor ML, Sciotto C, Erlandson R, Rosen PP. Uncommon presentation of mammary myofibroblastoma. Mod Pathol 1996;9:786-90 [letter; comment] Silverman JS, et al. **Mod Pathol** 1997 Mar;10(3):270-2. Comment on: Mod Pathol 1996 Jul;9(7):786-90.
Estrogen and progesterone receptors and anti-gross cystic disease fluid protein 15 (BRST-2) fail to distinguish metastatic breast carcinoma from eccrine neoplasms. Wallace ML, et al. **Mod Pathol** 1995 Dec;8(9):897-901
DDT mimicks estradiol stimulation of breast cancer cells to enter the cell cycle. Dees C, et al. **Mol Carcinog** 1997 Feb; 18(2):107-14
Expression of HMGI-C, a member of the high mobility group protein family, in a subset of breast cancers: relationship to histologic grade. Rogalla P, et al. **Mol Carcinog** 1997 Jul;19(3):153-6
Involvement of activator protein-1 (AP-1) in induction of apoptosis by vitamin E succinate in human breast cancer cells. Zhao B, et al. **Mol Carcinog** 1997 Jul;19(3):180-90
Constitutive activation of NF-kappaB during progression of breast cancer to hormone-independent growth. Nakshatri H, et al. **Mol Cell Biol** 1997 Jul;17(7):3629-39
Estrogen-dependent cyclin E-cdk2 activation through p21 redistribution. Planas-Silva MD, et al. **Mol Cell Biol** 1997 Jul;17(7):4059-69
Affinity for the insulin-like growth factor-II (IGF-II) receptor inhibits autocrine IGF-II activity in MCF-7 breast cancer cells. Ellis MJ, et al. **Mol Endocrinol** 1996 Mar;10(3):286-97
Antiprogestin inhibition of cell cycle progression in T-47D breast cancer cells is accompanied by induction of the cyclin-dependent kinase inhibitor p21. Musgrove EA, et al. **Mol Endocrinol** 1997 Jan;11(1):54-66
Acquired camptothecin resistance of human breast cancer MCF-7/C4 cells with normal topoisomerase I and elevated DNA repair. Fujimori A, et al. **Mol Pharmacol** 1996 Dec; 50(6):1472-8
Bisphosphonates in the treatment of bone diseases [editorial; comment] Delmas PD. **N Engl J Med** 1996 Dec 12; 335(24):1836-7. Comment on: N Engl J Med 1996 Dec 12;335(24):1785-91.
Efficacy of pamidronate in reducing skeletal complications in patients with breast cancer and lytic bone metastases. Protocol 19 Aredia Breast Cancer Study Group [see comments] Hortobagyi GN, et al. **N Engl J Med** 1996 Dec 12;335(24):1785-91. Comment in: N Engl J Med 1996 Dec 12;335(24):1836-7. Comment in: N Engl J Med 1997 May 29;336(22):1609; discussion 1610. Comment in: N Engl J Med 1997 May 29;336(22):1609-10; discussion 1610.
Pamidronate and metastatic breast cancer [letter; comment] Kao G. **N Engl J Med** 1997 May 29;336(22):1609; discussion 1610. Comment on: N Engl J Med 1996 Dec 12;335(24):1785-91.
Pamidronate and metastatic breast cancer [letter; comment] Rubiales AS, et al. **N Engl J Med** 1997 May 29; 336(22):1609-10; discussion 1610. Comment on: N Engl J Med 1996 Dec 12;335(24):1785-91.
Rethinking the development of breast cancer [news] Schehr RS. **Nat Biotechnol** 1997 Jun;15(6):517-8
Decreased levels of the cell-cycle inhibitor p27Kip1 protein: prognostic implications in primary breast cancer [see comments] Catzavelos C, et al. **Nat Med** 1997 Feb; 3(2):227-30. Comment in: Nat Med 1997 Feb;3(2):152-4.
Mapping pathophysiological features of breast tumors by MRI at high spatial resolution. Degani H, et al. **Nat Med** 1997 Jul;3(7):780-2
Breast cancer and osteolytic metastases: can bisphosphonates help? [news] Siris ES. **Nat Med** 1997 Feb;3(2):151-2
Prognostic and predictive factors in breast cancer. Jansen RL, et al. **Neth J Med** 1997 Aug;51(2):65-77 (155 ref.)
Panhypopituitarism as a consequence of metastase of breast cancer in sella turcica. Ruiz Hernández G, et al. **Nuklearmedizin** 1996 Aug;35(4):143-5
Antiproliferative effect of fermented milk on the growth of a human breast cancer cell line. Biffi A, et al. **Nutr Cancer** 1997;28(1):93-9
Dietary linoleic acid-stimulated human breast cancer cell growth and metastasis in nude mice and their suppression by indomethacin, a cyclooxygenase inhibitor. Connolly JM, et al. **Nutr Cancer** 1996;25(3):231-40
S-allylmercaptocysteine inhibits cell proliferation and reduces the viability of erythroleukemia, breast, and prostate cancer cell lines. Sigounas G, et al. **Nutr Cancer** 1997;27(2):186-91
dl-alpha-tocopherol induces apoptosis in erythroleukemia, prostate, and breast cancer cells. Sigounas G, et al. **Nutr Cancer** 1997;28(1):30-5
Inhibition of human breast cancer cell proliferation and delay of mammary tumorigenesis by flavonoids and citrus juices. So FV, et al. **Nutr Cancer** 1996;26(2):167-81
Evidence for role of transforming growth factor-beta in RRR-alpha-tocopheryl succinate-induced apoptosis of human MDA-MB-435 breast cancer cells. Yu W, et al. **Nutr Cancer** 1997;27(3):267-78
Estrogenic and antiproliferative properties of genistein and other flavonoids in human breast cancer cells in vitro. Zava DT, et al. **Nutr Cancer** 1997;27(1):31-40
Modulation of breast cancer cell adhesion by unsaturated fatty acids. Johanning GL. **Nutrition** 1996 Nov-Dec; 12(11-12):810-6 (68 ref.)
The tumor suppression activity of E1A in HER-2/neu-overexpressing breast cancer. Chang JY, et al. **Oncogene** 1997 Feb 6;14(5):561-8
A recombinant adenovirus expressing p27Kip1 induces cell cycle arrest and loss of cyclin-Cdk activity in human breast cancer cells. Craig C, et al. **Oncogene** 1997 May 15; 14(19):2283-9
The role of p27Kip1 in gamma interferon-mediated growth arrest of mammary epithelial cells and related defects in mammary carcinoma cells. Harvat BL, et al. **Oncogene** 1997 May 1;14(17):2111-22
Suppression of tumorigenicity of breast cancer cells by an epithelial cell adhesion molecule (C-CAM1): the adhesion and growth suppression are mediated by different domains. Luo W, et al. **Oncogene** 1997 Apr 10;14(14):1697-704
Localization of a growth suppressor activity in MCF7 breast cancer cells to chromosome 17q24-q25. Plummer SJ, et al. **Oncogene** 1997 May 15;14(19):2339-45
Baculovirus p35 and Z-VAD-fmk inhibit thapsigargin-induced apoptosis of breast cancer cells. Qi XM, et al. **Oncogene** 1997 Sep 4;15(10):1207-12
Inhibition of tumor growth and metastasis of human breast cancer cells transfected with tissue inhibitor of metalloproteinase 4. Wang M, et al. **Oncogene** 1997 Jun 12;14(23):2767-74
Commentary: malignant fibrous histiocytoma versus adenocarcinoma of the breast. Weiskittel S. **Oncol Nurs Forum** 1996 Sep;23(8):1178
Success of sentinel lymph node biopsy in melanoma leads to test in breast cancer [news] **Oncology (Huntingt)** 1996 Dec;10(12):1838
5HT3 receptor antagonists and pruritus due to cholestasis [letter] Quigley C. **Palliat Med** 1996 Jan;10(1):54
Expression of the antiapoptotic protein bcl-2 is not dependent on the tumor suppressor p53 protein in Indian breast carcinoma. Kesari AL, et al. **Pathobiology** 1997; 65(2):108-12
Role of steroid hormone and growth factor receptors and proto-oncogenes in the behavior of human mammary epithelial cancer cells in vitro. Saxena S, et al. **Pathobiology** 1997;65(2):75-82
Concurrent interfollicular Hodgkin's disease and metastatic breast carcinoma in lymph nodes. Allal AS, et al. **Pathol Int** 1996 Oct;46(10):787-90
Bilateral breast tumors, malignant phyllodes tumor and invasive lobular carcinoma in a 46,XX/46,XY mosaic female with family history of breast cancer. Kasami M, et al. **Pathol Int** 1997 Feb-Mar;47(2-3):147-54
Proliferation marker MIB-1 correlates well with proliferative activity evaluated by BrdU in breast cancer: an immunohistochemical study including correlation with PCNA, p53, c-erbB-2 and estrogen receptor status. Moriki T, et al. **Pathol Int** 1996 Dec;46(12):953-61
Histological grade in invasive ductal carcinoma of breast correlates with the proliferative activity evaluated by BrdU: an immunohistochemical study including correlations with p53, c-erbB-2 and estrogen receptor status. Moriki T, et al. **Pathol Int** 1996 Jun;46(6):417-25
Spindle cell carcinoma of the breast: a case report and an immunohistochemical study including p53 and Ki-67 expression. Nakayama Y, et al. **Pathol Int** 1997 Jun; 47(6):404-11
Adenomyoepithelioma of the breast with exaggerated proliferation of epithelial cells: report of a case. Nomura K, et al. **Pathol Int** 1996 Dec;46(12):1011-4
Histopathological study of stromal smooth muscle cells in fibroadenoma of the breast. Shimizu T, et al. **Pathol Int** 1996 Jun;46(6):442-9
Low-grade adenosquamous carcinoma of the breast: a case report with cytologic findings and review of the literature. Shizawa S, et al. **Pathol Int** 1997 Apr;47(4):264-7 (19 ref.)
Breast hamartoma with invasive ductal carcinoma. Report of two cases and review of the literature. Anani PA, et al. **Pathol Res Pract** 1996 Dec;192(12):1187-94 (19 ref.)
Disease-free survival of node-positive breast cancer patients. Improved prognostication by cytometrical parameters. Aubele M, et al. **Pathol Res Pract** 1995 Oct;191(10):982-90
Standardized mitotic counts in breast cancer. Evaluation of the method. Collan YU, et al. **Pathol Res Pract** 1996 Sep; 192(9):931-41
Mitotic count in breast cancer. The influence of training on performance. Kuopio T, et al. **Pathol Res Pract** 1996 Nov; 192(11):1095-9
Correlation of alpha 2 beta 1 integrin expression with histological type and hormonal receptor status in breast carcinomas. Lanzafame S, et al. **Pathol Res Pract** 1996 Oct; 192(10):1031-8
Tubular adenoma of the breast: an immunohistochemical study of ten cases. Maiorano E, et al. **Pathol Res Pract** 1995 Dec;191(12):1222-30
Quantitative study of ductal breast cancer progression. A progression index (P.I.) for premalignant lesions and in situ carcinoma. Mariuzzi GM, et al. **Pathol Res Pract** 1996 May; 192(5):428-36
Morphologic effects of neoadjuvant chemotherapy in locally advanced breast cancer. Moll UM, et al. **Pathol Res Pract** 1997;193(3):187-96
Clinicopathologic analysis of macrophage infiltrates in breast carcinoma. Visscher DW, et al. **Pathol Res Pract** 1995 Nov; 191(11):1133-9
Metastatic breast carcinoma presenting as urinoma. Zunarelli E, et al. **Pathologica** 1995 Dec;87(6):712-4 (8 ref.)
The role of cytology in the diagnosis of Paget's disease of the nipple. Gupta RK, et al. **Pathology** 1996 Aug; 28(3):248-50
Test and teach. Number eighty two. Diagnosis: Adenomyoepithlioma of the breast. Lukin LJ, et al. **Pathology** 1997 Feb;29(1):41, 88
FNB diagnosis of breast carcinoma associated with HIV infection: a case report and review of HIV associated malignancy. Mayer AP, et al. **Pathology** 1996 Jan; 28(1):90-5 (40 ref.)
Aneuploidy in sclerosing adenosis may predict an increased risk of malignancy. A study using the AgNOR silver stain. Mourad WA. **Pathology** 1997 Aug;29(3):255-9
Phyllodes tumor with lobular carcinoma in situ and liposarcomatous stroma. Padmanabhan V, et al. **Pathology** 1997 May;29(2):224-6
Association of hypercalcemia, PTHrP expression and disease progression in a woman with primary squamous cell carcinoma of the breast. Pillay P, et al. **Pathology** 1997 Aug;29(3):317-9
Two case reports of breast carcinoma associated with prolactinoma. Strungs I, et al. **Pathology** 1997 Aug; 29(3):320-3 (29 ref.)
Malignancy metastatic to the products of conception: a case report with literature review. Ackerman J, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug;17(4):577-86 (71 ref.)
L-histidine/medroxyprogesterone acetate interaction modulates human breast cancer cell growth and progestin receptor expression in vitro. Ghezzo F, et al. **Pharmacol Res** 1997 Feb;35(2):119-22
Headache, vomiting and diplopia. Cantón A, et al. **Postgrad Med J** 1997 Jun;73(860):357-9

High level expression of p27(kip1) and cyclin D1 in some human breast cancer cells: inverse correlation between the expression of p27(kip1) and degree of malignancy in human breast and colorectal cancers. Fredersdorf S, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6380–5

Cyclin E, a redundant cyclin in breast cancer. Gray–Bablin J, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15215–20

Components of the IGF system mediate the opposing effects of tamoxifen on endometrial and breast cancer cell growth. Karas M, et al. **Prog Growth Factor Res** 1995;6(2–4):513–20

Antiproliferative actions of insulin–like growth factor binding protein (IGFBP)–3 in human breast cancer cells. Oh Y, et al. **Prog Growth Factor Res** 1995;6(2–4):503–12 (42 ref.)

Gamma linolenic acid regulates gap junction communication in endothelial cells and their interaction with tumour cells. Jiang WG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):307–16

Gamma probe guided sentinel node biopsy in breast cancer. Gulec SA, et al. **Q J Nucl Med** 1997 Sep;41(3):251–61 (61 ref.)

Analysis of prognostic factors for patients with single brain metastasis treated with stereotactic radiosurgery. Fernandez–Vicioso E, et al. **Radiat Oncol Investig** 1997; 5(1):31–7

Lessons from mammographic–histopathologic correlation of large–core needle breast biopsy. Berg WA, et al. **Radiographics** 1996 Sep;16(5):1111–30 (31 ref.)

Role of stereotactic biopsy in diagnosing breast cancer [published erratum appears in Radiol Technol 1997 Mar–Apr;68(4):285] Newman J. **Radiol Technol** 1996 Nov–Dec;68(2):131–48; quiz 149–52 (42 ref.)

Mammographic findings after 14–gauge automated needle and 14–gauge directional, vacuum–assisted stereotactic breast biopsies. Burbank F. **Radiology** 1997 Jul;204(1):153–6

Fibroadenomas: MR imaging appearances with radiologic–histopathologic correlation. Hochman MG, et al. **Radiology** 1997 Jul;204(1):123–9

Dilated duct pattern at mammography. Huynh PT, et al. **Radiology** 1997 Jul;204(1):137–41

Atypical ductal hyperplasia diagnosed at stereotactic breast biopsy: improved reliability with 14–gauge, directional, vacuum–assisted biopsy. Jackman RJ, et al. **Radiology** 1997 Aug;204(2):485–8

Stereotactic core biopsy of calcifications highly suggestive of malignancy. Liberman L, et al. **Radiology** 1997 Jun; 203(3):673–7

Predicting breast cancer invasion with artificial neural networks on the basis of mammographic features. Lo JY, et al. **Radiology** 1997 Apr;203(1):159–63

Stereotactic breast biopsy of clustered microcalcifications with a directional, vacuum–assisted device. Meyer JE, et al. **Radiology** 1997 Aug;204(2):575–6

Compliance with recommended follow–up after fine–needle aspiration biopsy of nonpalpable breast lesions: a retrospective study. Pal S, et al. **Radiology** 1996 Oct; 201(1):71–4

Stereotactic core needle biopsy of multiple sites in the breast: efficacy and effect on patient care. Rosenblatt R, et al. **Radiology** 1996 Oct;201(1):67–70

Women with breast cancer: histologic findings in the contralateral breast. Roubidoux MA, et al. **Radiology** 1997 Jun;203(3):691–4

Central nervous system metastasis in breast cancer. Boogerd W. **Radiother Oncol** 1996 Jul;40(1):5–22 (184 ref.)

Tumor–associated retinal pigment epithelial tears. Leys AM, et al. **Retina** 1997;17(3):258–60 (5 ref.)

Clear cell tumors of the breast. Dina R, et al. **Semin Diagn Pathol** 1997 Aug;14(3):175–82 (44 ref.)

Lymphoscintigraphy, the sentinel node concept, and the intraoperative gamma probe in melanoma, breast cancer, and other potential cancers. Alazraki NP, et al. **Semin Nucl Med** 1997 Jan;27(1):55–67 (51 ref.)

Aromatase inhibitors in metastatic breast cancer. Buzdar AU, et al. **Semin Oncol** 1996 Aug;23(4 Suppl 9):28–32

Aromatase inhibitors in clinical practice: current status and a look to the future. Harvey HA. **Semin Oncol** 1996 Aug; 23(4 Suppl 9):33–8 (13 ref.)

Combination chemotherapy with paclitaxel and doxorubicin for metastatic breast cancer. Hortobagyi GN, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 11):S11–13–S11–19

Paclitaxel/5–fluorouracil/leucovorin in metastatic breast cancer: a Vanderbilt Cancer Center phase II trial. Nicholson B, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 11):S11–20–S11–23

Options in the local management of invasive breast cancer. Nixon AJ, et al. **Semin Oncol** 1996 Aug;23(4):453–63 (42 ref.)

The role of pathology in premalignancy and as a guide for treatment and prognosis in breast cancer. Simpson JF, et al. **Semin Oncol** 1996 Aug;23(4):428–35 (75 ref.)

Role of stereotactic breast biopsy. Bernstein JR. **Semin Surg Oncol** 1996 Sep–Oct;12(5):290–9 (39 ref.)

Axillary dissection: when and how radical? Morrow M. **Semin Surg Oncol** 1996 Sep–Oct;12(5):321–7 (51 ref.)

Future prospects for the staging of breast cancer. Rutgers EJ, et al. **Semin Surg Oncol** 1996 Jan–Feb;12(1):3–11 (61 ref.)

New aspects in the histological diagnosis of breast carcinoma. Shousha S. **Semin Surg Oncol** 1996 Jan–Feb;12(1):12–25 (73 ref.)

Stereotaxic breast biopsy. Dershaw DD. **Semin Ultrasound CT MR** 1996 Oct;17(5):444–59 (25 ref.)

Osteoblastic metastases from breast carcinoma with false–negative bone scan. Munk PL, et al. **Skeletal Radiol** 1997 Jul;26(7):434–7

Systemic radionuclide therapy with strontium chloride Sr 89 for painful skeletal metastases in prostate and breast cancer. Patel BR, et al. **South Med J** 1997 May;90(5):506–8

Long–term subcutaneous infusion of midazolam for refractory delirium in terminal breast cancer. Ramani S, et al. **South Med J** 1996 Nov;89(11):1101–3 (12 ref.)

Primary breast cancer in aberrant breast tissue in the axilla. Yerra L, et al. **South Med J** 1997 Jun;90(6):661–2 (9 ref.)

Asynchronous bilateral medullary carcinoma of the breast. Young JS, et al. **South Med J** 1997 Apr;90(4):423–5 (18 ref.)

Biological and clinical significance of cathepsin D in breast cancer metastasis. Garcia M, et al. **Stem Cells** 1996 Nov; 14(6):642–50 (63 ref.)

The significance of a supraclavicular node metastasis in patients with breast cancer. A literature review. Debois JM. **Strahlenther Onkol** 1997 Jan;173(1):1–12 (50 ref.)

Initial experience with breast biopsy utilizing the advanced breast biopsy instrumentation (ABBI). Ferzli GS, et al. **Surg Endosc** 1997 Apr;11(4):393–6

Inflammatory breast carcinoma. Chambler AF, et al. **Surg Oncol** 1995;4(5):245–54 (102 ref.)

Expression of endothelin–1 immunoreactivity in breast cancer. Kojima K, et al. **Surg Oncol** 1995;4(6):309–15

New era in breast cancer. Impact of screening on disease presentation. Cady B. **Surg Oncol Clin N Am** 1997 Apr; 6(2):195–202 (20 ref.)

The role of stereotactic biopsy in abnormal mammograms. Fajardo LL, et al. **Surg Oncol Clin N Am** 1997 Apr; 6(2):285–99 (24 ref.)

The biologic and clinical significance of lymphatic metastases in breast cancer. Foster RS Jr. **Surg Oncol Clin N Am** 1996 Jan;5(1):79–104 (142 ref.)

Pathology of mammographically discovered breast cancer. Clinical implications of size and histologic differentiation. Page DL, et al. **Surg Oncol Clin N Am** 1997 Apr; 6(2):335–42 (36 ref.)

Ultrasonographic guidance for needle biopsy of breast lesions. Sadowsky NL, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):265–84 (41 ref.)

Pathologic prognostic factors for patients with breast carcinoma. Which factors are important. Weidner N, et al. **Surg Oncol Clin N Am** 1997 Jul;6(3):415–62 (201 ref.)

Clinicopathologic features associated with long–term survival in node–negative breast cancer patients. Kato T, et al. **Surg Today** 1996;26(2):105–14

Role of age as a prognostic factor in breast cancer. Tsuchiya A, et al. **Surg Today** 1997;27(3):213–6

Thrombospondin–1 and transforming growth factor–beta 1 promote breast tumor cell invasion through up–regulation of the plasminogen/plasmin system. Albo D, et al. **Surgery** 1997 Aug;122(2):493–9; discussion 499–500

Antiproliferative and antiinvasive effects of carboxyamido–triazole on breast cancer cell lines. Lambert PA, et al. **Surgery** 1997 Aug;122(2):372–8; discussion 378–9

Computer–aided classification of breast cancer nuclei. Schnorrenberg F, et al. **Technol Health Care** 1996 Aug; 4(2):147–61

Improved determination of breast cancer size in mammography. Spiris N, et al. **Technol Health Care** 1996 Aug;4(2):163–8

Determination of growth fraction index in mammary carcinoma using MIB–1 monoclonal antibody: estimation of whole tumor proliferative potential using biopsy specimens. Oda K, et al. **Tokai J Exp Clin Med** 1995 Jul; 20(2):81–8

Mimosine blocks cell cycle progression by chelating iron in asynchronous human breast cancer cells. Kulp KS, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):356–64

Oestrogen/growth factor cross–talk in breast carcinoma: a specific target for novel antioestrogens. de Cupis A, et al. **Trends Pharmacol Sci** 1997 Jul;18(7):245–51 (69 ref.)

Internal mammary chain lymphoscintigraphy (IML) and IML–guided internal mammary chain biopsy (GIMB) in breast cancer. Benti R, et al. **Tumori** 1997 Mar–Apr; 83(2):533–6

The role of internal mammary lymphoscintigraphy in the clinical staging and prognosis of patients with breast cancer. Casara D. **Tumori** 1997 Mar–Apr;83(2):526–9

Axillary node metastasis detection in breast cancer with 99mTc–sestaMIBI and 111In–pentetreotide. Chiti A, et al. **Tumori** 1997 Mar–Apr;83(2):537–8

Time trends of benign/malignant breast biopsy ratios a multicenter Italian study. Ciatto S, et al. **Tumori** 1996 Jul–Aug;82(4):325–8

The contribution of positron emission tomography (PET) with 18F–fluorodeoxyglucose (FDG) in the preoperative detection of axillary metastases of breast cancer: the experience of the National Cancer Institute of Milan. Crippa F, et al. **Tumori** 1997 Mar–Apr;83(2):542–3

Optimization of axillary lymphoscintigraphy to detect the sentinel node in breast cancer. De Cicco C, et al. **Tumori** 1997 Mar–Apr;83(2):539–41

Nuclear grade and DNA ploidy in stage IV breast cancer with only visceral metastases at initial diagnosis. De Lena M, et al. **Tumori** 1996 Jul–Aug;82(4):386–9

Disseminated nocardiosis in a metastatic breast cancer patient. Drumea K, et al. **Tumori** 1997 Mar–Apr; 83(2):621–2

The role of lymphoscintigraphy by periareolar injection in the evaluation of axillary lymph node metastases from breast cancer. Gasparini M, et al. **Tumori** 1997 Mar–Apr; 83(2):530–2

Palliative therapy with rhenium–186–HEDP for bone metastases of breast cancer. Guerra UP, et al. **Tumori** 1997 Mar–Apr;83(2):560–2

Experience with 89–strontium treatment of painful osseous metastases from breast cancer. Pizzocaro C, et al. **Tumori** 1997 Mar–Apr;83(2):558–9

Association of breast carcinoma and meningioma: report of nine new cases and review of the literature. Salvati M, et al. **Tumori** 1996 Sep–Oct;82(5):491–3 (25 ref.)

Rhenium–186 hydroxyethylidene diphosphonate for treatment of painful osseous metastases from mammary carcinoma. Virotta G, et al. **Tumori** 1997 Mar–Apr; 83(2):563–5

Serum markers of bone metastases in postmenopausal breast cancer patients treated with formestane. Martinetti A, et al. **Tumour Biol** 1997;18(4):197–205

A 3 year audit of fine needle aspirates from a symptomatic breast clinic. Lioe TF, et al. **Ulster Med J** 1997 May; 66(1):24–7

Silicone breast implants: pathology. Raso DS, et al. **Ultrastruct Pathol** 1997 May–Jun;21(3):263–71 (46 ref.)

Acinic cell–like carcinoma of the breast. Roncaroli F, et al. **Virchows Arch** 1996 Sep;429(1):69–74

Detection of skeletal metastases in Nigerian breast cancer patients: evaluation of radioisotope bone scan and radiography. Ketiku KK, et al. **West Afr J Med** 1996 Apr–Jun;15(2):81–4

Percutaneous core biopsy of the breast. Brant W. **West J Med** 1996 Jul–Aug;165(1–2):52–3

Ultrasound–guided aspiration biopsy for detection of nonpalpable axillary node metastases in breast cancer patients: new diagnostic method. Bonnema J, et al. **World J Surg** 1997 Mar–Apr;21(3):270–4

Multiple primary tumors: 17 cases of renal–cell carcinoma associated with primary tumors involving different steroid–hormone target tissues. Di Silverio F, et al. **World J Urol** 1997;15(3):203–9

Adenomyoepithelioma of the breast–-its diagnostic problems and histogenesis. Choi JS, et al. **Yonsei Med J** 1996 Aug; 37(4):284–9

Invasive breast carcinoma with granulomatous stromal response. Alujević A, et al. **Zentralbl Gynakol** 1997; 119(7):343–5

[The importance of histological verification in the conservative surgery of breast cancer] Marinova L, et al. **Khirurgiia (Sofiia)** 1996;49(4):42–5 (Eng. Abstr.) **(Bul)**

[Importance of determination of proliferation markers and hormone receptors in breast carcinoma] Skálová A, et al. **Cas Lek Cesk** 1997 Jul 30;136(15):473–8 (Eng. Abstr.) **(Cze)**

[Less axillary dissection necessary due to sentinel node biopsy in patients with breast carcinoma (see comments)] Meijer S, et al. **Ned Tijdschr Geneeskd** 1996 Nov 9;140(45):2239–43 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Jan 25;141(4):214–5. **(Dut)**

[The role of sentinel node biopsy in the treatment of patients with breast carcinoma (letter)] Meijer S, et al. **Ned Tijdschr Geneeskd** 1996 Nov 16;140(46):2303; discussion 2303–4 **(Dut)**

[Identification of the sentinel node in patients with breast carcinoma (see comments)] Nieweg OE, et al. **Ned Tijdschr Geneeskd** 1996 Nov 9;140(45):2235–9 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 16;140(46):2302–3; discussion 2303–4. Comment in: Ned Tijdschr Geneeskd 1997 Jan 25;141(4):214–5. **(Dut)**

[The role of sentinel node biopsies in the treatment of patients with breast carcinoma (letter; comment)] Nieweg OE, et al. **Ned Tijdschr Geneeskd** 1996 Nov 16;140(46):2302–3; discussion 2303–4. Comment on: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2223–5. Comment on: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2235–9. **(Dut)**

[Digital roentgen–guided large–needle biopsy as an alternative to surgical biopsy in patients with nonpalpable mammographic abnormalities] Pijnappel RM, et al. **Ned Tijdschr Geneeskd** 1996 Sep 28;140(39):1948–52 (Eng. Abstr.) **(Dut)**

[The role of sentinel lymph node biopsy in the treatment of patients with breast carcinoma (letter; comment)] Roumen RM. **Ned Tijdschr Geneeskd** 1997 Jan 25; 141(4):214–5. Comment on: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2223–5. Comment on: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2235–9. Comment on: Ned Tijdschr Geneeskd 1996 Nov 9;140(45):2239–43. **(Dut)**

[The role of sentinel node biopsy in the treatment of patients with breast carcinoma (see comments)] van de Velde CJ. **Ned Tijdschr Geneeskd** 1996 Nov 9;140(45):2223–5 (22 ref.) . Comment in: Ned Tijdschr Geneeskd 1996 Nov 16;140(46):2302–3; discussion 2303–4. Comment in: Ned Tijdschr Geneeskd 1997 Jan 25;141(4):214–5. **(Dut)**

[Microscopic tumor embolisms in metastasized breast carcinoma] van de Ven PJ, et al. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):536–40 (Eng. Abstr.) **(Dut)**

[Preoperative needle biopsy: an improvement in palpable breast tumors with strong indications for malignancy] Zonderland HM, et al. **Ned Tijdschr Geneeskd** 1996 Sep

28;140(39):1952–6 (Eng. Abstr.) **(Dut)**

[Stereotaxic mammary core biopsy. II. Complementarity or competition with surgical biopsy] Thiesse P, et al. **Ann Chir** 1996;50(6):463–9 (51 ref.) (Eng. Abstr.) **(Fre)**

[Pelvic metastases revealing infiltrating lobular carcinoma of the breast (letter)] Julié C, et al. **Ann Pathol** 1997 Mar; 17(1):73–4 **(Fre)**

[A breast nodule in a 5–year–old girl] Michenet P, et al. **Ann Pathol** 1996;16(3):217–8 **(Fre)**

[Mammary pilomatrixoma clinically mimicking carcinoma (letter)] Reynaud P, et al. **Ann Pathol** 1997 Jul;17(3):213–4 **(Fre)**

[Spindle cell breast sarcoma] Randrianjafisamindrakotroka NS, et al. **Arch Anat Cytol Pathol** 1996;44(1):55–9 (Eng. Abstr.) **(Fre)**

[Prognostic tissue criteria of pT1–2, pN0–1, M0 cancers of the breast with a low or moderate metastatic potential] Bolla M, et al. **Bull Cancer** 1996 Dec;83(12):1061 **(Fre)**

[Standardization of tests for the pathology of the breast] Contesso G, et al. **Bull Cancer** 1996 Dec;83(12):1053–60 (29 ref.) **(Fre)**

[Role of microbiopsies in the therapeutic and diagnostic approach in cases of mammary microcalcification: preliminary results] Merviel P, et al. **Bull Cancer** 1996 Jul; 83(7):573–80 (25 ref.) (Eng. Abstr.) **(Fre)**

[Value of neo–angiogenesis evaluation in cancer of the breast] Namer M, et al. **Bull Cancer** 1996 Dec;83(12):1041–2 **(Fre)**

[Tissue parameters of prognosis in cancer of the breast] Pouillart P, et al. **Bull Cancer** 1996 Dec;83(12):1029–30 **(Fre)**

[Current aspects in histopathological assessment of breast cancer] Sastre X. **Bull Cancer** 1997 Jan;84(1):65–8 (Eng. Abstr.) **(Fre)**

[Analysis of the results of 137 subclinical breast lesions excisions. Value of ultrasonography in the early diagnosis of breast cancer (see comments)] Jacob D, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):27–31 (Eng. Abstr.). Comment in: J Gynecol Obstet Biol Reprod (Paris) 1997;26(2):202. **(Fre)**

[Phyllodes tumors of the breast. Forty one cases] Matar N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):32–6 (33 ref.) (Eng. Abstr.) **(Fre)**

[Breast carcinoma: evaluation of hormone receptors and pS2, erb–B2, P–glycoprotein and Ki–67 markers] Abadjian G, et al. **J Med Liban** 1996;44(1):10–5 (Eng. Abstr.) **(Fre)**

[Krükenberg tumors and ovarian metastases of breast cancer (editorial)] Krulik M. **Presse Med** 1997 Mar 29;26(10):452–3 (Eng. Abstr.) **(Fre)**

[Krükenberg tumors of breast origin. 10 cases] Le Bouëdec G, et al. **Presse Med** 1997 Mar 29;26(10):454–7 (Eng. Abstr.) **(Fre)**

[Breast plasmacytoma. 2 new cases (letter)] Quilichini R, et al. **Presse Med** 1997 Feb 1;26(2):76 **(Fre)**

[Interventional techniques in breast diagnosis: ultrasound controlled puncture biopsy] Schulz–Wendtland R, et al. **Aktuelle Radiol** 1997 Jan;7(1):30–4 (Eng. Abstr.) **(Ger)**

[Prognostic significance of plasminogen activator inhibitor–1 (PAI–1) in primary breast carcinoma] Fersis N, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):28–34 (Eng. Abstr.) **(Ger)**

[Stewart–Treves syndrome after breast carcinoma] Fink D, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):58–9 (Eng. Abstr.) **(Ger)**

[Plasminogen activator inhibitor 1 and prognosis in breast carcinoma] Mayerhofer K, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):23–7 (Eng. Abstr.) **(Ger)**

[Misinterpretation of a solitary breast carcinoma metastasis of the hand as an enchondroma. Case report and literature review] Witthaut J, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):271–7 (32 ref.) (Eng. Abstr.) **(Ger)**

[Developmental trends in breast pathology (editorial)] Böcker W. **Pathologe** 1997 Jan;18(1):1–2 **(Ger)**

[Ductal hyperplasia and ductal carcinoma in situ. Definition––classification––differential diagnosis] Böcker W, et al. **Pathologe** 1997 Jan;18(1):3–18 (98 ref.) (Eng. Abstr.) **(Ger)**

[When are recommended breast biopsies carried out, and what information does the physician responsible for mammography receive? Experiences with 317 breast biopsy in a regional quality assurance project for screening mammography] Meyer JM, et al. **Pathologe** 1997 Jan; 18(1):60–6 (Eng. Abstr.) **(Ger)**

[DNA cytometry in breast carcinoma. Review of method and value in assessing prognosis] Sinn HP, et al. **Pathologe** 1997 Jan;18(1):19–26 (81 ref.) (Eng. Abstr.) **(Ger)**

[Subtyping and prognostic assessment of invasive lobular breast carcinoma] Sinn HP, et al. **Pathologe** 1997 Jan; 18(1):37–44 (Eng. Abstr.) **(Ger)**

[Guidelines for pathology––supplement to European guidelines for quality assurance in mammography screening. Report by the Pathology Working Group of the European Community] Sloane JP, et al. **Pathologe** 1997 Jan;18(1):71–88 **(Ger)**

[Prognostic significance of micrometastases in axillary lymph nodes in breast carcinoma] Stosiek P, et al. **Pathologe** 1996 Nov;17(6):433–9 (Eng. Abstr.) **(Ger)**

[Mastopathy with atypia (mastopathy III) vs. minimal carcinoma in situ (MCIS) (letter)] Prechtel K. **Radiologe** 1996 Sep;36(9):761–2 **(Ger)**

[A new needle system for the MR–guided localization and transcutaneous biopsy of suspicious breast lesions. In vitro studies with 1.0 tesla] Heinig A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):342–5 (Eng. Abstr.) **(Ger)**

[Docetaxel in lymphangiosis carcinomatosa] Pestalozzi BC. **Schweiz Med Wochenschr** 1997 May 10;127(19):839 **(Ger)**

[Is lymphangiomatous carcinomatosis a radiological diagnosis?] Hilfiker PR, et al. **Schweiz Rundsch Med Prax** 1997 Jan 14;86(3):59–61 **(Ger)**

[Hormone therapy of metastasizing breast carcinoma] Hagen MF, et al. **Ther Umsch** 1996 Nov;53(11):820–8 (36 ref.) (Eng. Abstr.) **(Ger)**

[Cathepsin D as a prognostic marker in breast cancer] Asculai E, et al. **Harefuah** 1996 Jun 2;130(11):787–90 (28 ref.) **(Heb)**

[Prognostic factors in breast cancer patients] Roisman I, et al. **Harefuah** 1996 May 15;130(10):693–9 (49 ref.) **(Heb)**

[The mental foramen syndrome] Altay A, et al. **Fogorv Sz** 1997 May;90(5):145–50 (23 ref.) (Eng. Abstr.) **(Hun)**

[Ultrasonography–guided percutaneous needle biopsy with large needle versus surgical biopsy in the diagnosis of breast lesions] Anania G, et al. **Ann Ital Chir** 1995 Sep–Oct; 66(5):645–50 (Eng. Abstr.) **(Ita)**

[Surgical treatment of pulmonary metastasis from breast carcinoma. Personal contribution and considerations on the experience in the literature] Morone G, et al. **Ann Ital Chir** 1996 Nov–Dec;67(6):833–5; discussion 835–6 (23 ref.) (Eng. Abstr.) **(Ita)**

[Prognostic significance of desmoplasia in breast carcinoma. A preliminary clinical study] Mezi S, et al. **G Chir** 1997 May;18(5):263–8 (Eng. Abstr.) **(Ita)**

[Effects of PDGF AB on extracellular matrix synthesis by human mammary fibroblasts] Palumbo C, et al. **G Chir** 1997 Jun–Jul;18(6–7):337–9 (Eng. Abstr.) **(Ita)**

[Bulletin of breast disease: results of the 1990–1994 quinquennium] Criscuolo M, et al. **Pathologica** 1996 Dec; 88(6):500–5 (Eng. Abstr.) **(Ita)**

[Breast carcinoma metastatic to meningioma: review of the literature and description of 2 new cases] Fornelli A, et al. **Pathologica** 1995 Oct;87(5):506–12 (37 ref.) (Eng. Abstr.) **(Ita)**

[Ki–67 in carcinoma of the breast: from the frozen to the paraffin sections] Ghidoni D, et al. **Pathologica** 1996 Aug; 88(4):270–4 (Eng. Abstr.) **(Ita)**

[Syringomatous breast carcinoma and correlated lesions] Urso C. **Pathologica** 1996 Jun;88(3):196–9 (20 ref.) (Eng. Abstr.) **(Ita)**

[Is radiotherapy still the first choice treatment in spinal metastases from breast cancer?] Micheletti E, et al. **Radiol Med (Torino)** 1996 Oct;92(4):470–4 (Eng. Abstr.) **(Ita)**

[A case of breast cancer metastasis to the skin and bone 13 years after, and to the brain 17 years after mastectomy] Itoshima T, et al. **Gan To Kagaku Ryoho** 1997 Aug; 24(10):1331–3 (Eng. Abstr.) **(Jpn)**

[Intra–arterial infusion chemotherapy for liver metastases from breast cancer] Masuda N, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1537–41 (Eng. Abstr.) **(Jpn)**

[A case resectable hepatic metastases of breast cancer following intrahepatic arterial chemotherapy] Matsumoto J, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1542–5 (Eng. Abstr.) **(Jpn)**

[Bone metastases responsive to pamidronate therapy in breast cancer] Oura S, et al. **Gan To Kagaku Ryoho** 1997 May; 24(7):865–8 (Eng. Abstr.) **(Jpn)**

[A case of lung metastasis from breast cancer successfully treated by FLEP (5–FU leucovorin, etoposide CDDP) combined arterial infusion chemotherapy] Tsuneda Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1582–4 (Eng. Abstr.) **(Jpn)**

[Complete tumor regression obtained by chemoendocrine therapy including toremifene in two cases of pulmonary metastasis of breast cancer with a history of tamoxifen treatment] Yamada Y, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1335–40 (Eng. Abstr.) **(Jpn)**

[Pulmonary metastasis from breast cancer: a case report with 19–year disease–free interval] Kamiyoshihara M, et al. **Kyobu Geka** 1997 Mar;50(3):194–6 (12 ref.) (Eng. Abstr.) **(Jpn)**

[US–guided core biopsy of the breast with an automated biopsy gun: comparison with an aspiration core needle device] Taki S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan;57(1):1–4 (Eng. Abstr.) **(Jpn)**

[Treatment results of brain metastasis from breast cancer: course of the disease and radiation therapy] Yamada K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):34–40 (Eng. Abstr.) **(Jpn)**

[Case of "carcinomatous cirrhosis" caused by diffuse hepatic metastasis of occult breast cancer] Nagakura K, et al. **Nippon Naika Gakkai Zasshi** 1997 Feb 10;86(2):312–3 **(Jpn)**

[The early breast cancer] Kasumi F. **Nippon Rinsho** 1996 May;54(5):1395–9 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Bladder tumor, metastasis from breast carcinoma. A case report with literature review] Lund JA, et al. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1082–3 (13 ref.) (Eng. Abstr.) **(Nor)**

[Non Hodgkin's lymphoma of the breast] Nowara E, et al. **Przegl Lek** 1995;52(10):526–8 (Eng. Abstr.) **(Pol)**

[Breast adenocarcinoma metastatic to the pituitary gland: report of a case] Zambelli HJ, et al. **Arq Neuropsiquiatr** 1996 Mar;54(1):124–6 (Eng. Abstr.) **(Por)**

[Endobronchial metastases from primary breast cancer] Pereira JR, et al. **Rev Assoc Med Bras** 1996 Apr–Jun; 42(2):119–22 (Eng. Abstr.) **(Por)**

[Morphogenetic potential of the communication systems in breast dysplasia and fibroadenoma] Abrosimov SIu, et al. **Arkh Patol** 1996 May–Jun;58(3):33–7 (Eng. Abstr.) **(Rus)**

[Breast cancer with neuroendocrine differentiation] Delektorskaia VV, et al. **Arkh Patol** 1997 Mar–Apr; 59(2):53–7 (Eng. Abstr.) **(Rus)**

[Secondary neovascularization––one of the steps in the development and progression of breast cancer] Kozlov DV, et al. **Arkh Patol** 1996 Jul–Aug;58(4):72–5 (61 ref.) (Eng. Abstr.) **(Rus)**

[Immunomorphologic markers in breast cancer] Volchenko NN, et al. **Arkh Patol** 1996 Jan–Feb;58(1):6–10 (Eng. Abstr.) **(Rus)**

[Metaplastic breast cancer] Volchenko NN, et al. **Arkh Patol** 1996 Jan–Feb;58(1):10–4 (Eng. Abstr.) **(Rus)**

[Results of extended estimation of AgNORs reaction in parenchyma–stromal interactions in breast cancer] Dubenskaia LI, et al. **Biull Eksp Biol Med** 1996 Oct; 122(10):437–40 **(Rus)**

[Proliferative activity and ploidy of DNA as possible prognostic factors in breast cancer] Guliak NS, et al. **Klin Lab Diagn** 1996 May–Jun;(3):37–8 **(Rus)**

[Immunologic parameters in breast cancer patients (depending on age, reproductive function, clinical and pathologic pattern and growth rate of the tumor)] Baldueva IA, et al. **Vopr Onkol** 1996;42(5):31–5 (Eng. Abstr.) **(Rus)**

[Correlation of lymphocytic infiltration of tumor tissue with the hormonal and metabolic state in patients with breast cancer] Bershteĭn LM, et al. **Vopr Onkol** 1996;42(5):36–9 (Eng. Abstr.) **(Rus)**

[Aneuploidy and proliferative activity in breast cancer (flow–cytometric investigation)] Bychkova NV, et al. **Vopr Onkol** 1997;43(2):171–5 (Eng. Abstr.) **(Rus)**

[Correlation between int–2 oncogene amplification and increased tumor size in breast cancer] Chernitsa OI, et al. **Vopr Onkol** 1996;42(4):27–9 (Eng. Abstr.) **(Rus)**

[Breast cancer with low levels of blood lipids] Korman DB, et al. **Vopr Onkol** 1997;43(2):164–70 (Eng. Abstr.) **(Rus)**

[Determination of the proliferative activity of breast cancer cells using 5–bromo–2'–deoxyuridine in vivo] Uporov AV, et al. **Vopr Onkol** 1997;43(2):176–82 (Eng. Abstr.) **(Rus)**

[Metastasis in axillary lymph nodes in breast carcinoma––possibilities of mammographic diagnosis] Dimčić M, et al. **Srp Arh Celok Lek** 1997 Mar–Apr; 125(3–4):124–6 (Eng. Abstr.) **(Scc)**

[Prognosis in breast carcinoma (letter)] Zámečník M. **Cesk Patol** 1997 May;33(2):69 **(Slo)**

[Mammary tumor puncture with fine needle] Villarreal–Chávez R, et al. **Ginecol Obstet Mex** 1996 Jul; 64:316–8 (Eng. Abstr.) **(Spa)**

[Behavior of cytosolic tissue polypeptide specific antigen in infiltrating ductal carcinoma of the breast classified as a function of percentage of cells in S phase of the cell cycle (letter)] Alvarez A, et al. **Med Clin (Barc)** 1996 Jun 15; 107(3):116 **(Spa)**

[Early detection of breast cancer in Navarra. Diagnostic approach in women sent to a referral hospital] Apesteguía Ciriza L, et al. **Med Clin (Barc)** 1996 Feb 3;106(4):126–30 (Eng. Abstr.) **(Spa)**

[Immunohistochemical analysis of p53 and c–erbB–2 in breast cancer] Castiglioni T, et al. **Medicina (B Aires)** 1995;55(5 Pt 1):415–20 (Eng. Abstr.) **(Spa)**

[Reproducibility of nuclear grade in breast neoplasm. A multicenter experience] Sundblad AS, et al. **Medicina (B Aires)** 1996;56(1):35–40 (Eng. Abstr.) **(Spa)**

[Mammary phyllodes tumor. A clinico–pathological review of 14 cases] Antonio Pérez J, et al. **Rev Med Chil** 1995 Nov;123(11):1379–86 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Changes in radiation sensitivity and steroid receptor content induced by hormonal agents and ionizing radiation in breast cancer cells in vitro. Paulsen GH, et al. **Acta Oncol** 1996; 35(8):1011–9

Estrogens, phytoestrogens, and breast cancer. Clarke R, et al. **Adv Exp Med Biol** 1996;401:63–85 (141 ref.)

Stearate inhibition of breast cancer cell proliferation. A mechanism involving epidermal growth factor receptor and G–proteins. Wickramasinghe NS, et al. **Am J Pathol** 1996 Mar;148(3):987–95

Sexuality in women receiving chemotherapy for breast cancer [letter; comment] Valle J, et al. **Ann Oncol** 1997 Jun;8(6):616–8. Comment on: Ann Oncol 1997 Feb;8(2):149–53.

Pulmonary function after high–dose chemotherapy with autologous bone marrow transplantation and radiotherapy in patients with advanced loco–regional breast cancer. Dolsma WV, et al. **Anticancer Res** 1997 Jan–Feb; 17(1B):537–40

Timing of surgery related to menstrual cycle and prognosis

of premenopausal women with breast cancer. Mondini G, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):787–90

Dielectrophoretic manipulation of cells with spiral electrodes. Wang XB, et al. **Biophys J** 1997 Apr; 72(4):1887–99

Comparative evaluation of markers of bone resorption in patients with breast cancer–induced osteolysis before and after bisphosphonate therapy. Body JJ, et al. **Br J Cancer** 1997;75(3):408–12

Clodronate improves bone mineral density in post–menopausal breast cancer patients treated with adjuvant antioestrogens. Saarto T, et al. **Br J Cancer** 1997; 75(4):602–5

Human breast carcinoma slice cultures retain retinoic acid sensitivity. Jing Y, et al. **Braz J Med Biol Res** 1996 Sep; 29(9):1105–8

Seasonal variation in the secretion of mammotrophic hormones in normal women and women with previous breast cancer. Holdaway IM, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):15–22

Thermography. Its relation to pathologic characteristics, vascularity, proliferation rate, and survival of patients with invasive ductal carcinoma of the breast [letter; comment] Head JF, et al. **Cancer** 1997 Jan 1;79(1):186–8. Comment on: Cancer 1996 Apr 1;77(7):1324–8.

Perceived risk, anxiety, mammogram uptake, and breast self–examination of women with a family history of breast cancer: the role of knowing to be at increased risk. Drossaert CC, et al. **Cancer Detect Prev** 1996;20(1):76–85

The cellular retinoic acid binding protein II is a positive regulator of retinoic acid signaling in breast cancer cells. Jing Y, et al. **Cancer Res** 1997 May 1;57(9):1668–72

Association between flow cytometric S–phase fraction and apoptotic rate in breast cancer. Samoszuk MK, et al. **Cytometry** 1996 Dec 15;26(4):281–5

Induction and reversal of cell adhesion–dependent multicellular drug resistance in solid breast tumors. Kerbel RS, et al. **Hum Cell** 1996 Dec;9(4):257–64 (31 ref.)

Natural interferon–alpha activity in hormone–sensitive, hormone–resistant and autonomous human breast–cancer cell lines [published erratum appears in Int J Cancer 1997 Aug 7;72(4):708] Iacopino F, et al. **Int J Cancer** 1997 Jun 11;71(6):1103–8

Chemokines induce migrational responses in human breast carcinoma cell lines. Youngs SJ, et al. **Int J Cancer** 1997 Apr 10;71(2):257–66

Assessment of palliation in women with recurrent breast cancer [letter] Liu FF, et al. **Int J Hyperthermia** 1996 Nov–Dec;12(6):825–6

Perioperative stimulation of residual cancer cells promotes local and distant recurrence of breast cancer. Reid SE, et al. **J Am Coll Surg** 1997 Sep;185(3):290–306 (143 ref.)

Reliability and validity of the Functional Assessment of Cancer Therapy–Breast quality–of–life instrument. Brady MJ, et al. **J Clin Oncol** 1997 Mar;15(3):974–86

Abrogation of cisplatin–induced programmed cell death in human breast cancer cells by epidermal growth factor antisense RNA [see comments] Dixit M, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):365–73. Comment in: J Natl Cancer Inst 1997 Mar 5;89(5):341–3.

Assessment of hormone dependence of comedo ductal carcinoma in situ of the breast [see comments] Holland PA, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1059–65 . Comment in: J Natl Cancer Inst 1997 Jul 16;89(14):991–3.

Epidermal growth factor receptor family and chemosensitization [editorial; comment] Mendelsohn J, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):341–3 (45 ref.). Comment on: J Natl Cancer Inst 1997 Mar 5;89(5):365–73.

Does the timing of breast cancer surgery affect survival? [news] Randal J. **J Natl Cancer Inst** 1997 Apr 2;89(7):473–7

Research on bone metastases quickens its pace [news] Ziegler J. **J Natl Cancer Inst** 1997 Jun 18;89(12):841–3

Prospective evaluation of skin surface electropotentials in Japanese patients with suspicious breast lesions. Fukuda M, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1092–6

A new cancer hypothesis. Zajicek G. **Med Hypotheses** 1996 Aug;47(2):111–5

Estrogenic and progestagenic activities of physiologic and synthetic androgens, as measured by in vitro bioassays. Markiewicz L, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):215–22

Integrin alpha 3 beta 1 participates in the phagocytosis of extracellular matrix molecules by human breast cancer cells. Coopman PJ, et al. **Mol Biol Cell** 1996 Nov; 7(11):1789–804

Heterozygous ATM mutations do not contribute to early onset of breast cancer [see comments] FitzGerald MG, et al. **Nat Genet** 1997 Mar;15(3):307–10. Comment in: Nat Genet 1997 Mar;15(3):226.

Variations in steroid hormone receptor content throughout age and menopausal periods, and menstrual cycle in breast cancer patients. Nikolić–Vukosavljević D, et al. **Neoplasma** 1996;43(3):163–9

Breast cancer increases initiation of angiogenesis without accelerating neovessel growth rate. Watson JC, et al. **Surgery** 1997 Aug;122(2):508–13; discussion 513–4

[Thyroid gland function in women with breast carcinoma] Limanová Z, et al. **Vnitr Lek** 1996 Sep;42(9):605–9 (Eng. Abstr.) **(Cze)**

[Pregnancy and cancer of the breast] Herman P, et al. **Rev Med Liege** 1997 Jun;52(6):392–7 (14 ref.) **(Fre)**

[Evaluation of left ventricular function in patients with mammary carcinoma after treatment with epidoxorubicin using a high–dose, short–term protocol] D'Alto M, et al. **Cardiologia** 1997 Jun;42(6):611–8 (Eng. Abstr.) **(Ita)**

[Immunologic parameters in breast cancer patients (depending on age, reproductive function, clinical and pathologic pattern and growth rate of the tumor)] Baldueva IA, et al. **Vopr Onkol** 1996;42(5):31–5 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Effect of human variability on independent double reading in screening mammography. Beam CA, et al. **Acad Radiol** 1996 Nov;3(11):891–7

Wheat bran, colon cancer, and breast cancer. What do we have? What do we need? Black RM. **Adv Exp Med Biol** 1996;401:221–9 (37 ref.)

What age should routine mammography be commenced? Cardenosa G. **AJR Am J Roentgenol** 1997 May; 168(5):1377–8

Breast cancer in women 65–74 years old: earlier detection by mammographic screening. Gabriel H, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):23–7

Opinions about mammographic double reading [letter; comment] Hall FM. **AJR Am J Roentgenol** 1997 Mar; 168(3):846. Comment on: AJR Am J Roentgenol 1996 Aug;167(2):377–9.

Should women with implants or a history of treatment for breast cancer be excluded from mammography screening programs? [see comments] Kopans DB, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):29–31. Comment in: AJR Am J Roentgenol 1997 Jul;169(1):315.

Fixed–facility workplace screening mammography. Reynolds HE, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):507–10

The mammography muddle [editorial] Rogers LF. **AJR Am J Roentgenol** 1997 May;168(5):1151

NCI and NIH consensus panel issue recommendations on mammography for women ages 40 to 49. **Am Fam Physician** 1997 May 15;55(7):2536–9 (0 ref.)

A review of hereditary breast cancer: from screening to risk factor modification. Warmuth MA, et al. **Am J Med** 1997 Apr;102(4):407–15 (84 ref.)

The importance of age as a context for understanding African–American women's mammography screening behavior. Danigelis NL, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):358–66

Breast and cervical cancer screening in an inner–city medical walk–in clinic: taking advantage of an often missed opportunity. Doyle JP, et al. **Am J Prev Med** 1996 Sep–Oct; 12(5):345–50

Implementing breast cancer screening guidelines: results of the Ontario Health Status Survey. Edwards N, et al. **Am J Prev Med** 1997 Mar–Apr;13(2):143–9

Screening mammography for breast cancer: American College of Preventive Medicine practice policy statement. Ferrini R, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):340–1

Increased use of mammography among Hispanic women: baseline results from the NCI Cooperative Group on Cancer Prevention in Hispanic Communities. Kaplan RM, et al. **Am J Prev Med** 1996 Nov–Dec;12(6):467–71

Barriers to breast and cervical cancer screening among Vietnamese–American women. McPhee SJ, et al. **Am J Prev Med** 1997 May–Jun;13(3):205–13

Mammography use in older women with regular physicians: what are the predictors? Mayer–Oakes SA, et al. **Am J Prev Med** 1996 Jan–Feb;12(1):44–50

Mammography, clinical breast exam, and pap testing: correlates of combined screening. Pearlman DN, et al. **Am J Prev Med** 1996 Jan–Feb;12(1):52–64

Breast cancer screening practices among black, Hispanic, and white women: reassessing differences. Pearlman DN, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):327–37

Cancer screening practices among women in a community health center population. Rimer BK, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):351–7

Predictors of the performance of breast and cervical cancer early detection by public health nurses. Shaw JE, et al. **Am J Prev Med** 1997 May–Jun;13(3):199–204

Effect of a cancer screening intervention conducted by lay health workers among inner–city women. Sung JF, et al. **Am J Prev Med** 1997 Jan–Feb;13(1):51–7

Screening behaviors and long–term compliance with mammography guidelines in a breast cancer screening program. Weinberg AD, et al. **Am J Prev Med** 1997 Jan–Feb;13(1):29–35

Mammography screening for women aged 40 through 49––a guidelines saga and a clarion call for informed decision making. Ernster VL. **Am J Public Health** 1997 Jul; 87(7):1103–6

The costs and effects of cervical and breast cancer screening in a public hospital emergency room. The Cancer Control Center of Harlem. Mandelblatt J, et al. **Am J Public Health** 1997 Jul;87(7):1182–9

Questionable data and preconceptions: reconsidering the value of mammography for American Indian Women. Partin MR, et al. **Am J Public Health** 1997 Jul;87(7):1100–2

Eating to beat breast cancer: potential role for soy supplements. Stoll BA. **Ann Oncol** 1997 Mar;8(3):223–5

A comparative audit of prevalent, incident and interval cancers in the Avon breast screening programme. Sylvester PA, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):272–5

Rate and classification of interval cancers in the breast screening programme. Sylvester PA, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):276–7

Plant estrogens and human health [editorial] Michnovicz JJ. **Ann Surg Oncol** 1996 Nov;3(6):513–4

A model for describing low–income African American women's participation in breast and cervical cancer early detection and screening. Baldwin D. **ANS Adv Nurs Sci** 1996 Dec;19(2):27–42

Continuity of care and the use of breast and cervical cancer screening services in a multiethnic community. O'Malley AS, et al. **Arch Intern Med** 1997 Jul 14;157(13):1462–70

Osteoporosis. Menopause and beyond. MacLennan A. **Aust Fam Physician** 1997 Feb;26(2):123–5, 128–9, 131

Breast self examination: should general practice bother? Vafiadis P. **Aust Fam Physician** 1997 Jan;26 Suppl 1:S41–6 (45 ref.)

Consulting about priorities for the NHMRC National Breast Cancer Centre: how good is the nominal group technique. Redman S, et al. **Aust N Z J Public Health** 1997 Jun; 21(3):250–6

Survey of doses in screening mammography. Heggie JC. **Australas Phys Eng Sci Med** 1996 Dec;19(4):207–16

Estimating lead time and sensitivity in a screening program without estimating the incidence in the screened group. Straatman H, et al. **Biometrics** 1997 Mar;53(1):217–29

Harm resulting from screening is likely to be high where prevalence of breast cancer is low [letter; comment] Adab P. **BMJ** 1997 Jul 19;315(7101):190. Comment on: BMJ 1997 Mar 22;314(7084):864–7.

NHS breast screening programme: is the high incidence of interval cancers inevitable? Asbury D, et al. **BMJ** 1996 Nov 30;313(7069):1369–70

Breast cancer screening for younger women is not an efficient use of resources [letter] Baum M. **BMJ** 1997 Jun 21; 314(7097):1834

Routine mammograms not recommended for younger women [news] Charatan FB. **BMJ** 1997 Feb 1;314(7077):323

Breast cancer screening in women aged under 50 [editorial] Fletcher S. **BMJ** 1997 Mar 15;314(7083):764–5

Effectiveness of the public health policy for breast cancer screening in Finland: population based cohort study [see comments] Hakama M, et al. **BMJ** 1997 Mar 22; 314(7084):864–7. Comment in: BMJ 1997 Jul 19;315(7101):190.

Side effects of tamoxifen are distressing and common [letter; comment] Ray A, et al. **BMJ** 1996 Dec 7;313(7070):1484 . Comment on: BMJ 1996 Apr 20;312(7037):1036. Comment on: BMJ 1996 Aug 24;313(7055):493–4.

Routine follow up of breast cancer in primary care [letter] [see comments] Rodger A. **BMJ** 1997 Apr 12; 314(7087):1129–30. Comment in: BMJ 1997 Jul 26;315(7102):255.

The novel anti–oestrogen idoxifene inhibits the growth of human MCF–7 breast cancer xenografts and reduces the frequency of acquired anti–oestrogen resistance. Johnston SR, et al. **Br J Cancer** 1997;75(6):804–9

Mammography screening interval and the frequency of interval cancers in a population–based screening. Klemi PJ, et al. **Br J Cancer** 1997;75(5):762–6

Assessment of lifetime gained as a result of mammographic breast cancer screening using a computer model. Jansen JT, et al. **Br J Radiol** 1997 Jun;70(834):619–28

Breast cancer control among the underserved––an overview. Breen N, et al. **Breast Cancer Res Treat** 1996;40(1):105–15 (77 ref.)

Gail model breast cancer risk components are poor predictors of risk perception and screening behavior. Daly MB, et al. **Breast Cancer Res Treat** 1996;41(1):59–70

Unsolved problems in early breast cancer detection: focus on the underserved. Hiatt RA, et al. **Breast Cancer Res Treat** 1996;40(1):37–51

Post screen–detected breast cancer within the Screening Mammography Program of British Columbia. Hislop TG, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):235–42

Breast cancer mortality in relation to self–reported use of breast self–examination. A cohort study of 450,000 women. Holmberg L, et al. **Breast Cancer Res Treat** 1997 Apr; 43(2):137–40

Timeliness of follow–up after abnormal screening mammography. Kerlikowske K. **Breast Cancer Res Treat** 1996;40(1):53–64

Breast cancer prevention and control among the medically underserved. Kerner JF. **Breast Cancer Res Treat** 1996; 40(1):1–9 (32 ref.)

The Breast Cancer Detection Demonstration Project 25 years later [editorial] Cunningham MP. **CA Cancer J Clin** 1997 May–Jun;47(3):131–3

Twenty–year follow–up of the breast cancers diagnosed during the Breast Cancer Detection Demonstration Project. Smart CR, et al. **CA Cancer J Clin** 1997 May–Jun; 47(3):134–49

Breast screening [editorial; comment] Bell P, et al. **Can Fam Physician** 1997 May;43:821–2, 826–7. Comment on: Can Fam Physician 1997 May;43 :883–8. **(Eng, Fre)**

Recruiting women for breast screening. Family Physician Model strategy [see comments] McAuley RG, et al. **Can Fam Physician** 1997 May;43:883–8. Comment in: Can Fam Physician 1997 May;43 :821–2, 826–7.

Breast cancer screening in Canada: climbing the diffusion curve. Bryant H. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S60–2

Changes in women's breast cancer screening practices,

knowledge, and attitudes in Ottawa-Carleton since 1991. De Grasse CE, et al. **Can J Public Health** 1996 Sep-Oct; 87(5):333-8

Randomization in the Canadian National Breast Screening Study: a review for evidence of subversion [see comments] Bailar JC 3rd, et al. **Can Med Assoc J** 1997 Jan 15; 156(2):193-9. Comment in: Can Med Assoc J 1997 Jan 15;156(2):207-9. Comment in: Can Med Assoc J 1997 Jan 15;156(2):213-9. Comment in: CMAJ 1997 Aug 1;157(3):247-8.

The review of randomization in the Canadian National Breast Screening Study. Is the debate over? [editorial; comment] [see comments] Boyd NF. **Can Med Assoc J** 1997 Jan 15; 156(2):207-9. Comment on: Can Med Assoc J 1997 Jan 15;156(2):193-9. Comment in: Can Med Assoc J 1997 May 1;156(9):1269-70. Comment in: CMAJ 1997 Aug 1;157(3):248, 250.

The review of randomization in the Canadian National Breast Screening Study. What does the verdict mean for clinicians? [editorial; comment] Bryant H. **Can Med Assoc J** 1997 Jan 15;156(2):213-5. Comment on: Can Med Assoc J 1997 Jan 15;156(2):193-9.

Checking random assignment with claims data [letter; comment] Cohen M, et al. **Can Med Assoc J** 1997 May 1;156(9):1269-70. Comment on: Can Med Assoc J 1997 Jan 15;156(2):207-9.

Effect of breast-feeding on risk of breast cancer [letter; comment] [see comments] Reimer DE. **Can Med Assoc J** 1996 Oct 1;155(7):861. Comment on: Can Med Assoc J 1996 Apr 15;154(8):1253-5. Comment in: Can Med Assoc J 1996 Dec 1;155(11):1550.

Age-related differences in breast carcinoma knowledge, beliefs, and perceived risk among women visiting an academic general medicine practice. Dolan NC, et al. **Cancer** 1997 Aug 1;80(3):413-20

The influence of risk factors on breast carcinoma screening of Medicare-insured older women. National Cancer Institute Breast Cancer Screening Consortium. Roetzheim R, et al. **Cancer** 1996 Dec 15;78(12):2526-34

The New Mexico Mammography Project. Screening mammography performance in Albuquerque, New Mexico, 1991 to 1993. Rosenberg RD, et al. **Cancer** 1996 Oct 15; 78(8):1731-9

Benefit of mammography screening in women ages 40 to 49 years. Current evidence from randomized controlled trials [published erratum appears in Cancer 1995 Jun 1;75(11):] Smart CR, et al. **Cancer** 1995 Apr 1;75(7):1619-26

Diet and exercise regimens to improve breast carcinoma prognosis. Stoll BA. **Cancer** 1996 Dec 15;78(12):2465-70

Perceived risk, anxiety, mammogram uptake, and breast self-examination of women with a family history of breast cancer: the role of knowing to be at increased risk. Drossaert CC, et al. **Cancer Detect Prev** 1996;20(1):76-85

Long-term effects of participation in a randomized trial of a low-fat, high-carbohydrate diet. Boyd NF, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):217-22

Breast cancer screening and related attitudes among Filipino-American women. Maxwell AE, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep;6(9):719-26

Validation of self-reported breast and cervical cancer screening tests among low-income minority women. Paskett ED, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):721-6

Correspondence re: J. Shannon et al., Relationship of food groups and water intake to colon cancer risk. Cancer Epidemiol., Biomarkers & Prev., 5: 495-502 [letter] Stookey JD, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug; 6(8):657-8

Cancer detection activities coordinated by nursing students in community health. Bailey S, et al. **Cancer Nurs** 1996 Oct;19(5):348-52

A peer education model for teaching breast self-examination to undergraduate college women. Maurer F. **Cancer Nurs** 1997 Feb;20(1):49-61

Hispanic women's beliefs about breast cancer and mammography. Salazar MK. **Cancer Nurs** 1996 Dec; 19(6):437-46

Inhibition of angiogenesis and breast cancer in mice by the microtubule inhibitors 2-methoxyestradiol and taxol. Klauber N, et al. **Cancer Res** 1997 Jan 1;57(1):81-6

Vitamin E succinate inhibits proliferation of BT-20 human breast cancer cells: increased binding of cyclin A negatively regulates E2F transactivation activity. Turley JM, et al. **Cancer Res** 1997 Jul 1;57(13):2668-75

Breast cancer risk analysis and counseling. Mulvihill JJ, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):851-9 (21 ref.)

Prophylactic mastectomy for genetic predisposition to breast cancer: the proband's story. Eeles R, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):222-5

Metastatic breast cancer 42 years after bilateral subcutaneous mastectomies. Jameson MB, et al. **Clin Oncol (R Coll Radiol)** 1997;9(2):119-21

The effect of hormone replacement therapy on recall rate in the National Health Service Breast Screening Programme. Litherland JC, et al. **Clin Radiol** 1997 Apr; 52(4):276-9

NBSS: changes were made, suspicious changes were not [letter; comment] Baines CJ. **CMAJ** 1997 Aug 1;157(3):248, 250. Comment on: Can Med Assoc J 1997 Jan 15;156(2):207-9.

FPs have vital role in ensuring success of breast cancer screening programs. Cohen L. **CMAJ** 1997 Aug 15; 157(4):442-4

NBSS: opportunity to compromise the process [letter; comment] Kopans DB. **CMAJ** 1997 Aug 1;157(3):247-8. Comment on: Can Med Assoc J 1997 Jan 15;156(2):193-9.

Breast cancer screening: early recognition. Costanza ME, et al. **Compr Ther** 1997 Jan;23(1):7-12

Controversies regarding screening mammography. Ciatto S. **Crit Rev Oncol Hematol** 1997 May;26(1):55-9 (31 ref.)

Secondary prevention of cancer. Caplan LS, et al. **Curr Opin Oncol** 1996 Sep;8(5):441-6 (62 ref.)

Mammographic screening in older women. Is it worthwhile? van Dijck JA, et al. **Drugs Aging** 1997 Feb;10(2):69-79 (62 ref.)

Mechanisms, proof, and unmet needs: the perspective of a cancer activist. Steingraber S. **Environ Health Perspect** 1997 Apr;105 Suppl 3:685-7

Nonsteroidal antiinflammatory drugs and breast cancer. Harris RE, et al. **Epidemiology** 1996 Mar;7(2):203-5

Pain and discomfort during mammography. Aro AR, et al. **Eur J Cancer** 1996 Sep;32A(10):1674-9

Long-term effects of fenretinide on retinal function. Decensi A, et al. **Eur J Cancer** 1997 Jan;33(1):80-4

Is mass screening for breast cancer cost-effective? de Koning HJ, et al. **Eur J Cancer** 1996 Oct;32A(11):1835-44 (51 ref.)

A comparison of the performance and impact of breast cancer screening programmes in East Anglia, U.K. and Bouches du Rhône, France. McCann J, et al. **Eur J Cancer** 1997 Mar;33(3):429-35

Early cancer detection programmes for women at high risk for breast and ovarian cancer: a proposal of practical guidelines. Beckmann MW, et al. **Eur J Cancer Prev** 1996 Dec;5(6):468-75 (87 ref.)

Hereditary breast cancer risk: factors associated with the decision to undergo BRCA 1 testing. Gil F. **Eur J Cancer Prev** 1996 Dec;5(6):488-90

A randomized trial of the total design method for the postal follow-up of women in a cancer prevention trial. Sutherland HJ, et al. **Eur J Cancer Prev** 1996 Jun;5(3):165-8

Mammograms may convey more than breast cancer risk: breast arterial calcification and arterio-sclerotic related diseases in women of the DOM cohort. van Noord PA, et al. **Eur J Cancer Prev** 1996 Dec;5(6):483-7

The debate over mass mammography: is it beneficial for women? Dilhuydy MH, et al. **Eur J Radiol** 1997 Feb; 24(2):86-93 (36 ref.)

Optimisation of mammographic breast cancer screening using a computer simulation model. Jansen JT, et al. **Eur J Radiol** 1997 Feb;24(2):137-44

Chromosome aberrations in prophylactic mastectomies from women belonging to breast cancer families. Petersson C, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):185-8

Lay health advisors: a strategy for getting the word out about breast cancer. Earp JA, et al. **Health Educ Behav** 1997 Aug; 24(4):432-51

What is the relationship between breast cancer risk and mammography screening? A meta-analytic review. McCaul KD, et al. **Health Psychol** 1996 Nov;15(6):423-9

Breast cancer worry and screening: some prospective data. McCaul KD, et al. **Health Psychol** 1996 Nov;15(6):430-3

Trends in mammography utilization, 1981 to 1994. Gaudette LA, et al. **Health Rep** 1996 Winter;8(3):17-27(Eng); 19-30(Fre) **(Eng, Fre)**

Phase I study of recombinant CEA vaccinia virus vaccine with post vaccination CEA peptide challenge. Cole DJ, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1381-94

Chemoprevention of breast cancer with tamoxifen. Cuzick J. **IARC Sci Publ** 1996;(136):95-109 (83 ref.)

Chemoprevention of breast cancer with fenretinide. Veronesi U, et al. **IARC Sci Publ** 1996;(136):87-94 (39 ref.)

Breast-cancer screening with mammography in women aged 40-49 years. Swedish Cancer Society and the Swedish National Board of Health and Welfare. **Int J Cancer** 1996 Dec 11;68(6):693-9 (26 ref.)

Recall of body weight and body size estimation in women enrolled in the breast cancer detection and demonstration project (BCDDP). Muñoz KA, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):854-9

Breast self-care practices in women with primary relatives with breast cancer. Chalmers KI, et al. **J Adv Nurs** 1996 Jun;23(6):1212-20

Breast self-examination: an analysis of self-reported practice. Persson K, et al. **J Adv Nurs** 1997 May;25(5):886-92

Conflicting national recommendations and the use of screening mammography: does the physician's recommendation matter? Taplin SH, et al. **J Am Board Fam Pract** 1997 Mar-Apr;10(2):88-95

Comparison of breast screening outcomes from a cancer control intervention for African-American and white women in western New York. Roberson NL. **J Assoc Acad Minor Phys** 1997;8(2):29-33

Increasing mammography and breast self-examination in African American women using the Witness Project model. Erwin DO, et al. **J Cancer Educ** 1996 Winter;11(4):210-5

Breast cancer screening: racial/ethnic differences in behaviors and beliefs. Friedman LC, et al. **J Cancer Educ** 1995 Winter;10(4):213-6

Using standardized patients to teach breast evaluation to sophomore medical students. Heard JK, et al. **J Cancer Educ** 1995 Winter;10(4):191-4

Use of a photoessay to teach low-income African American women about mammography. Paskett ED, et al. **J Cancer Educ** 1996 Winter;11(4):216-20

Development and implementation of outreach strategies for breast and cervical cancer prevention among African American women. FoCaS Project. Forsyth County Cancer Screening. Tatum C, et al. **J Cancer Educ** 1997 Spring; 12(1):43-50

The impact of distribution of a patient-education pamphlet in a multidisciplinary breast clinic. Vetto JT, et al. **J Cancer Educ** 1996 Fall;11(3):148-52

Breast cancer screening practices among Cambodian women in Houston, Texas. Yi JK, et al. **J Cancer Educ** 1996 Winter; 11(4):221-5

Clinical development plan: (+)-vorozole. **J Cell Biochem Suppl** 1996;26:308-15

Clinical development plan: genistein. **J Cell Biochem Suppl** 1996;26:114-26

Clinical development plan: indole-3-carbinol. **J Cell Biochem Suppl** 1996;26:127-36

Clinical development plan: l-perillyl alcohol. **J Cell Biochem Suppl** 1996;26:137-48

Identification of a chemoprevention cohort from a population of women at high risk for breast cancer. Fabian CJ, et al. **J Cell Biochem Suppl** 1996;25:112-22

Ethical and scientific considerations for chemoprevention research in cohorts at genetic risk for breast cancer. Nayfield SG. **J Cell Biochem Suppl** 1996;25:123-30

BCRA 1 testing guidelines for high-risk patients [letter] Sorscher S, et al. **J Clin Oncol** 1997 Apr;15(4):1711

Community organization to promote breast cancer screening ordering by primary care physicians. Taylor VM, et al. **J Community Health** 1996 Aug;21(4):277-91

Developing and evaluating a Spanish TEL-MED message on breast cancer. Ward B, et al. **J Community Health** 1997 Apr;22(2):127-35

Using focus group methodology to develop breast cancer screening programs that recruit African American women. Williams GA, et al. **J Community Health** 1997 Feb; 22(1):45-56

Predictors of returning for second round screening at a population based mammographic screening programme in Melbourne, Australia. Cockburn J, et al. **J Epidemiol Community Health** 1997 Feb;51(1):62-6

Long term breast cancer screening in Nijmegen, The Netherlands: the nine rounds from 1975-92. Otten JD, et al. **J Epidemiol Community Health** 1996 Jun;50(3):353-8

Quantitative estimates of the impact of sensitivity and specificity in mammographic screening in Germany. Warmerdam PG, et al. **J Epidemiol Community Health** 1997 Apr;51(2):180-6

Team approach to combat breast cancer. Bagby RJ. **J Fla Med Assoc** 1996 Aug-Sep;83(7):447-8

Breast cancer awareness. Kinney C. **J Fla Med Assoc** 1996 Feb;83(2):141-2

Breast health. Challenges and promises. Masood S, et al. **J Fla Med Assoc** 1996 Aug-Sep;83(7):459-65 (0 ref.)

Improving screening for cancer in the primary care setting. Where do we need to go and how can we get there? [editorial; comment] Atkins D. **J Gen Intern Med** 1996 Sep; 11(9):563-4. Comment on: J Gen Intern Med 1996 Sep;11(9):505-12. Comment on: J Gen Intern Med 1996 Sep;11(9):539-41. Comment on: J Gen Intern Med 1996 Sep;11(9):542-4.

Cancer-screening determinants among Hispanic women using migrant health clinics. Skaer TL, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):338-54

Breast imaging and the diagnosis of breast disease. Monticciolo DL. **J Med Assoc Ga** 1997 Sep;86(3):207-9 (18 ref.)

Written information needs of women who are recalled for further investigation of breast screening: results of a multicentre study. Austoker J, et al. **J Med Screen** 1994 Oct;1(4):238-44

A comparison of two view and one view mammography in the detection of small invasive cancers: results from the National Health Service breast screening programme. Blanks RG, et al. **J Med Screen** 1996;3(4):200-3

Monitoring the performance of breast screening programmes: allowing for geographical variation in breast cancer incidence. Blanks RG, et al. **J Med Screen** 1996;3(2):82-4

Monitoring the performance of breast screening programmes: use of indirect standardisation in evaluating the invasive cancer detection rate. Blanks RG, et al. **J Med Screen** 1996; 3(2):79-81

UK breast screening programme: how does it reflect the Forrest recommendations? Gerard K, et al. **J Med Screen** 1997;4(1):10-5

Effect of issuing an invitation for breast cancer screening to women aged 65 to 69. Hendry PJ, et al. **J Med Screen** 1996;3(2):88-9

Impact of follow up letters on non-attenders for breast screening: a general practice based study. Majeed A, et al. **J Med Screen** 1997;4(1):19-20

Tailored written invitations for second round breast cancer screening: a randomised controlled trial. Meldrum P, et al. **J Med Screen** 1994 Oct;1(4):245-8

An overview of the Swedish randomised mammography trials: total mortality pattern and the representivity of the study cohorts. Nystrom L, et al. **J Med Screen** 1996; 3(2):85-7

Comparison of radiographer/radiologist double film reading with single reading in breast cancer screening. Pauli R, et al. **J Med Screen** 1996;3(1):18-22

Breast cancer screening: the effect of self selection for

screening on comparisons of randomised controlled trials. Richardson A, et al. **J Med Screen** 1997;4(1):16–8

Breast and cervical carcinoma screening services: physicians' perceptions of need. Scott-Conner CE, et al. **J Miss State Med Assoc** 1996 Nov;37(11):809–15

National Institutes of Health Consensus Development Conference Statement: Breast Cancer Screening for Women Ages 40–49, January 21–23, 1997. National Institutes of Health Consensus Development Panel. **J Natl Cancer Inst** 1997 Jul 16;89(14):1015–26 (94 ref.)

Reflections on breast self-examination [editorial; comment] Baines CJ. **J Natl Cancer Inst** 1997 Mar 5;89(5):339–40. Comment on: J Natl Cancer Inst 1997 Mar 5;89(5):355–65.

Effects at two years of a low-fat, high-carbohydrate diet on radiologic features of the breast: results from a randomized trial. Canadian Diet and Breast Cancer Prevention Study Group [see comments] Boyd NF, et al. **J Natl Cancer Inst** 1997 Apr 2;89(7):488–96. Comment in: J Natl Cancer Inst 1997 Apr 2;89(7):466–7.

Keying educational messages to high-risk populations [news] Daley L. **J Natl Cancer Inst** 1997 Jul 16;89(14):998–1000

NCI adopts new mammography screening guidelines for women [news] Eastman P. **J Natl Cancer Inst** 1997 Apr 16;89(8):538–9

Prophylactic cancer surgeries offer no guarantees, uncertain outcomes [news] Holzman D. **J Natl Cancer Inst** 1996 Oct 16;88(20):1428–9

Tamoxifen: the herald of a new era of preventive therapeutics [editorial; comment] Jordan VC. **J Natl Cancer Inst** 1997 Jun 4;89(11):747–9. Comment on: J Natl Cancer Inst 1997 Jun 4;89(11):776–82.

Potential drug DHEA hits snags on way to clinic [news] McNeil C. **J Natl Cancer Inst** 1997 May 21;89(10):681–3

Studies show prophylactic surgeries seem to reduce cancer risk [news] Nelson NJ. **J Natl Cancer Inst** 1997 Jun 4; 89(11):762–3

The mammography consensus jury speaks out [news] Nelson NJ. **J Natl Cancer Inst** 1997 Mar 5;89(5):344–7 (00 ref.)

NCAB considers mammography screening issues; forms working group [news] Nelson NJ. **J Natl Cancer Inst** 1997 Mar 19;89(6):417–8

Concerns about recommending routine screening mammograms for women aged 40–49 years [letter] Paykel J, et al. **J Natl Cancer Inst** 1997 Jun 18;89(12):889

Measurement error and results from analytic epidemiology: dietary fat and breast cancer. Prentice RL. **J Natl Cancer Inst** 1996 Dec 4;88(23):1738–47

Breast mammographic changes among women adopting a low-fat eating pattern [editorial; comment] Prentice RL. **J Natl Cancer Inst** 1997 Apr 2;89(7):466–7. Comment on: J Natl Cancer Inst 1997 Apr 2;89(7):488–96.

Next generation of SERMs being seen in clinic [news] Smigel K. **J Natl Cancer Inst** 1997 Jul 2;89(13):913

Randomized trial of breast self-examination in Shanghai: methodology and preliminary results [see comments] Thomas DB, et al. **J Natl Cancer Inst** 1997 Mar 5; 89(5):355–65. Comment in: J Natl Cancer Inst 1997 Mar 5;89(5):339–40.

Mammography controversies: time for informed consent? [letter] van Netten JP, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1164–5

Report of the NMA panel on mammography. Morgan RC Jr. **J Natl Med Assoc** 1997 Jul;89(7):440–3

The Breast Cancer Prevention Trial: evaluating tamoxifen's efficacy in preventing breast cancer. McKeon VA. **J Obstet Gynecol Neonatal Nurs** 1997 Jan–Feb;26(1):79–90 (62 ref.)

Breast cancer and Oklahoma women [news] **J Okla State Med Assoc** 1996 Oct;89(10):375–6

Recalling women for further investigation of breast screening: women's experiences at the clinic and afterwards. Ong G, et al. **J Public Health Med** 1997 Mar; 19(1):29–36

Sir James Young Simpson Memorial Lecture 1995. Breast cancer prevention: a pathologist's approach. Simpson HW. **J R Coll Surg Edinb** 1996 Dec;41(6):359–70

What are the benefits and costs of screening mammograms on Kentucky women aged 40–49? [editorial] Spratt JS, et al. **J Surg Oncol** 1996 Oct;63(2):71–6

Screening mammography for women in their forties: the Panel of Babel [editorial] Healy BP. **J Womens Health** 1997 Feb;6(1):1–3

Participants strengthen clinical trial research: the vital role of participant advisors in the Breast Cancer Prevention Trial. Psillidis L, et al. **J Womens Health** 1997 Apr; 6(2):227–32

Recommendations for follow-up care of individuals with an inherited predisposition to cancer. II. BRCA1 and BRCA2. Cancer Genetics Studies Consortium [see comments] Burke W, et al. **JAMA** 1997 Mar 26;277(12):997–1003 (120 ref.) . Comment in: JAMA 1997 Jul 23–30;278(4):289–90; discussion 290. Comment in: JAMA 1997 Jul 23–30;278(4):290.

Screening mammography and risk of breast cancer [letter; comment] Hall FM. **JAMA** 1996 Nov 13;276(18):1470; discussion 1470–1. Comment on: JAMA 1996 Jul 3;276(1):39–43.

Final mammography recommendation? [news] Marwick C. **JAMA** 1997 Apr 16;277(15):1181

Other voices weigh in on mammography decision [news] Marwick C. **JAMA** 1997 Apr 2;277(13):1027–8

NIH consensus panel spurs discontent [news] Marwick C. **JAMA** 1997 Feb 19;277(7):519–20

Study shows mastectomy prevents breast cancer in high-risk women [news] Stephenson J. **JAMA** 1997 May 14; 277(18):1421–2

Screening mammography and risk of breast cancer [letter; comment] Werneke U. **JAMA** 1996 Nov 13;276(18):1470; discussion 1470–1. Comment on: JAMA 1996 Jul 3;276(1):33–8.

Rethink on screening for breast cancer [letter] Baum M. **Lancet** 1997 Sep 13;350(9080):810–1

Canadian National Breast Screening Study [letter] Kopans DB. **Lancet** 1997 Sep 13;350(9080):810

Breast screening programme: should the interval between tests depend on age? [letter] [see comments] Threlfall AG, et al. **Lancet** 1997 Feb 15;349(9050):472. Comment in: Lancet 1997 Apr 12;349(9058):1103–4. Comment in: Lancet 1997 Apr 12;349(9058):1104. Comment in: Lancet 1997 May 31;349(9065):1624. Comment in: Lancet 1997 May 31;349(9065):1624–5.

Education and income differentials in breast and cervical cancer screening. Policy implications for rural women. Lantz PM, et al. **Med Care** 1997 Mar;35(3):219–36

Draft protocols for the evaluation of breast abnormalities. Schepps B, et al. **Med Health R I** 1997 Mar;80(3):96–7

Proposed breast cancer screening recommendations. Schepps B, et al. **Med Health R I** 1997 Jun;80(6):206–8

Breast cancer in rural Australia. Furnival CM. **Med J Aust** 1997 Jan 6;166(1):25–6

October is breast cancer awareness month. Physicians aid women through state cancer control program. DeShano CL. **Mich Med** 1996 Oct;95(10):40, 62

Clinical breast examinations. Avoiding misunderstandings. Coulter AJ, et al. **Minn Med** 1996 Oct;79(10):30–2

Breast cancer screening in Minnesota. The role of physicians. Korn JE, et al. **Minn Med** 1996 Oct;79(10):26–9

Breast cancer prevention strategies for the twenty-first century. Sukumar S, et al. **Mol Med Today** 1996 Nov; 2(11):453–9 (22 ref.)

Should we test women for inherited susceptibility to breast cancer? what do NC primary care physicians think. O'Malley MS, et al. **N C Med J** 1997 May-Jun;58(3):176–80

Risk of breast cancer in carriers of BRCA gene mutations [letter] Birkmeyer JD, et al. **N Engl J Med** 1997 Sep 11; 337(11):787–8; discussion 789

Exercise and breast cancer [letter; comment] Goldenberg K. **N Engl J Med** 1997 Sep 4;337(10):709. Comment on: N Engl J Med 1997 May 1;336(18):1269–75.

Exercise and breast cancer--time to get moving? [editorial; comment] [see comments] McTiernan A. **N Engl J Med** 1997 May 1;336(18):1311–2. Comment on: N Engl J Med 1997 May 1;336(18):1269–75. Comment in: N Engl J Med 1997 Sep 4;337(10):708; discussion 709.

Risk of breast cancer in carriers of BRCA gene mutations [letter] Meijer WJ, et al. **N Engl J Med** 1997 Sep 11; 337(11):788; discussion 789

Risk of breast cancer in carriers of BRCA gene mutations [letter] Orlando R 3rd. **N Engl J Med** 1997 Sep 11; 337(11):787; discussion 789

Decision analysis--effects of prophylactic mastectomy and oophorectomy on life expectancy among women with BRCA1 or BRCA2 mutations [see comments] [published erratum appears in N Engl J Med 1997 Aug 7;337(6):434] Schrag D, et al. **N Engl J Med** 1997 May 15; 336(20):1465–71. Comment in: N Engl J Med 1997 May 15;336(20):1448–9.

Screening mammography for women ages 40 to 49 years. Timins JK. **N J Med** 1997 Apr;94(4):39–43

When the data are not clear [editorial] Culliton BJ. **Nat Med** 1997 Mar;3(3):251

Mammography in Nebraska: physician-related barriers. de Martinez M. **Nebr Med J** 1996 Mar;81(3):87–91

Nebraska family physician approaches to mammograms. Smith JL, et al. **Nebr Med J** 1996 Mar;81(3):58–62

NIH Consensus Statement. Breast cancer screening for women ages 40–49. **NIH Consens Statement** 1997 Jan 21–23;15(1):1–35 (94 ref.)

Dietary fiber and risk of breast cancer: a case-control study in Uruguay. De Stefani E, et al. **Nutr Cancer** 1997; 28(1):14–9

Vitamin E and breast cancer: a review. Kimmick GG, et al. **Nutr Cancer** 1997;27(2):109–17 (60 ref.)

Altered kinetics and extent of urinary daidzein and genistein excretion in women during chronic soya exposure. Lu LJ, et al. **Nutr Cancer** 1996;26(3):289–302

A randomized trial of a low-fat dietary intervention in women at high risk for breast cancer. Simon MS, et al. **Nutr Cancer** 1997;27(2):136–42

Genetic susceptibility for breast cancer: testing and primary prevention options. Baron RH, et al. **Oncol Nurs Forum** 1997 Apr;24(3):461–8 (55 ref.)

Breast cancer risk: protective effect of an early first full-term pregnancy versus increased risk of induced abortion. Canty L. **Oncol Nurs Forum** 1997 Jul;24(6):1025–31 (60 ref.)

Commentary: patient counseling and education. Mahon SM. **Oncol Nurs Forum** 1997 May;24(4):635–6

New evidence that NSAIDs reduce breast cancer risk [news] **Oncology (Huntingt)** 1997 Jul;11(7):1046

AACR comments on mammography screening for women age 40 to 49. **Oncology (Huntingt)** 1997 Mar;11(3):368

Clinical trials referral resource. Breast cancer and prostate cancer. Brawley OW, et al. **Oncology (Huntingt)** 1996 Jan; 10(1):100, 102

Should we recommend screening mammography for women aged 40 to 49? Esserman L, et al. **Oncology (Huntingt)** 1996 Mar;10(3):357–64; discussion: 370–6 (46 ref.)

Breast cancer prevention strategies. Love RR, et al. **Oncology (Huntingt)** 1997 Feb;11(2):161–8; discussion 168–173 passim

Tamoxifen: from breast cancer therapy to the design of a postmenopausal prevention maintenance therapy. Jordan VC, et al. **Osteoporos Int** 1997;7 Suppl 1:S52–7 (36 ref.)

A reader's guide to the evaluation of screening studies. Earle C, et al. **Postgrad Med J** 1996 Feb;72(844):77–83

Beliefs about dietary factors in breast cancer prevention among American women, 1991 to 1995. Barnard ND, et al. **Prev Med** 1997 Jan–Feb;26(1):109–13

Two sequential randomized trials of community participation to recruit women for mammographic screening. Clover K, et al. **Prev Med** 1996 Mar–Apr;25(2):126–34

Use of screening mammography and clinical breast examinations among black, Hispanic, and white women. Frazier EL, et al. **Prev Med** 1996 Mar–Apr;25(2):118–25

Variability in the timing of repeat screening mammography. Jepson C, et al. **Prev Med** 1997 Jul–Aug;26(4):483–5

Participation in a breast cancer screening program: influence of past behavior and determinants on future screening participation. Lechner L, et al. **Prev Med** 1997 Jul–Aug; 26(4):473–82

Preventive services for breast and cervical cancer in U.S. office-based practices. Salive ME, et al. **Prev Med** 1996 Sep–Oct;25(5):561–8

Reliability of self-reported breast screening information in a survey of lower income women. Vacek PM, et al. **Prev Med** 1997 May–Jun;26(3):287–91

Tamoxifen Breast Cancer Prevention Trial--an update. Ford LG, et al. **Prog Clin Biol Res** 1997;396:271–82

Perspectives and progress in development of breast cancer chemopreventive drugs. Kelloff GJ, et al. **Prog Clin Biol Res** 1997;396:159–83 (159 ref.)

Improving the uptake of breast screening: one initiative in east London. Falshaw ME, et al. **Public Health** 1996 Sep; 110(5):305–6

Disparities in breast cancer screening: is it ethical? Caplan LS. **Public Health Rev** 1997;25(1):31–41

Breast cancer screening in older women. Caplan LS, et al. **Public Health Rev** 1996;24(2):193–204

The national breast screening service: is it economically efficient? Torgerson DJ, et al. **QJM** 1997 Jun;90(6):423–5

Hormone replacement therapy and breast cancer risk. Gambrell RD Jr. **S Afr J Surg** 1996 Nov;34(4):169–73; discussion 173–4

Forty-something breast screening [letter; comment] [see comments] Sickles EA. **Science** 1997 Mar 14;275(5306):1549 . Comment on: Science 1997 Feb 21;275(5303):1056–9. Comment in: Science 1997 Mar 21;275(5307):1721.

NCI reverses one expert panel, sides with another [news] Taubes G. **Science** 1997 Apr 4;276(5309):27–8

Predisposition testing for breast and ovarian cancer susceptibility. Calzone KA. **Semin Oncol Nurs** 1997 May; 13(2):82–90 (61 ref.)

Future prospects of population-based mammographic screening. Holmberg L. **Semin Surg Oncol** 1996 Jan–Feb; 12(1):26–31 (36 ref.)

Working from the inside out: implications of breast cancer activism for biomedical policies and practices. Anglin MK. **Soc Sci Med** 1997 May;44(9):1403–15

The effect of spatial definition on the allocation of clients to screening clinics. Hyndman J, et al. **Soc Sci Med** 1997 Jul;45(2):331–40

Cervical and breast cancer screening rates in Sioux Indian women. Mahmoodian S. **South Med J** 1997 Mar; 90(3):316–20

Updated results of the trials of screening mammography. Kopans DB. **Surg Oncol Clin N Am** 1997 Apr;6(2):233–63 (57 ref.)

Screening for breast and prostate cancer: a survey of Texas primary care physicians. Kripalani S, et al. **Tex Med** 1996 Dec;92(12):59–67

A randomized trial on breast self-examination in Faenza (northern-Italy). Ferro S, et al. **Tumori** 1996 Jul–Aug; 82(4):328–34

Chemoprevention of breast cancer with fenretinide (4-HPR): study of long-term visual and ophthalmologic tolerability. Mariani L, et al. **Tumori** 1996 Sep–Oct;82(5):444–9

The distribution of West Virginia women targeted for screening of breast and cervical cancers. German RR. **W V Med J** 1996 Mar–Apr;92(2):82–6

A breast cancer care report card. An assessment of performance and a pursuit of value. West JG, et al. **West J Med** 1997 Apr;166(4):248–52

Health beliefs and early detection among Chinese women. Hoeman SP, et al. **West J Nurs Res** 1996 Oct;18(5):518–33

Introducing patient values into the decision making process for breast cancer screening. Pellissier JM, et al. **Women Health** 1996;24(4):47–67

Exercise in the prevention and treatment of chronic disorders. Deuster PA. **Womens Health Issues** 1996 Nov–Dec; 6(6):320–31 (73 ref.)

The Human Genome Project and breast cancer. Olopade OI. **Womens Health Issues** 1997 Jul–Aug;7(4):209–14 (35 ref.)

Delivering breast and cervical cancer screening services to underserved women: Part I. Literature review and telephone survey. Vellozzi CJ, et al. **Womens Health Issues** 1996 Mar–Apr;6(2):65–73 (34 ref.)

[How to examine your breast (letter)] Conrad CG, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2571–2 **(Dan)**

[Breast cancer screening, European Union and France] Tubiana M. **Bull Cancer** 1996 Sep;83(9):726–31 (40 ref.) **(Fre)**

[Cost of breast cancer screening] Wait SH. **Bull Cancer** 1996 Sep;83(9):769–72 (Eng. Abstr.) **(Fre)**

[Breast cancer screening between forty and fifty years old] Raulic P, et al. **Contracept Fertil Sex** 1997 Jan; 25(1):XI–XVII (29 ref.) **(Fre)**

[Preliminary results of a screening programme by mobile units in the province of Liege] Gordenne W, et al. **J Belge Radiol** 1997 Jun;80(3):120–1 (Eng. Abstr.) **(Fre)**

[Systematic screening for breast cancer in Rhone] Courtial I, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996; 25(1):9–16 (Eng. Abstr.) **(Fre)**

[Modalities of reading of detection mammographies of the programme in the Bouches-du-Rhône. Results and costs 1990–1995] Séradour B, et al. **J Radiol** 1997 Jan;78(1):49–54 (Eng. Abstr.) **(Fre)**

[Results of mass screening programs for breast cancer in France] Mamelle N, et al. **Presse Med** 1996 Nov 16; 25(35):1663–6 (15 ref.) **(Fre)**

[The role of cancer registries in the evaluation of breast cancer screening] Schaffer P, et al. **Rev Epidemiol Sante Publique** 1996;44 Suppl 1:S15–21 (Eng. Abstr.) **(Fre)**

[Predictive oncology and familial breast cancer] Pescia G, et al. **Rev Med Suisse Romande** 1997 Aug;117(8):603–6 (10 ref.) **(Fre)**

[Mammography] Schmidt F. **Acta Med Austriaca** 1997; 24(2):29–32 (18 ref.) (Eng. Abstr.) **(Ger)**

[Mammography screening as early detection measure. Pro] Koch MG. **Arch Gynecol Obstet** 1996;259 Suppl 1:S161–77 **(Ger)**

[What is the benefit of screening for breast cancer? Contra] Schmidt JG. **Arch Gynecol Obstet** 1996;259 Suppl 1:S178–98 **(Ger)**

[Computer-assisted diagnosis in screening mammography] Bick U. **Radiologe** 1996 Jan;36(1):72–80 (53 ref.) (Eng. Abstr.) **(Ger)**

[Benefits and risks of mammography screening] Jung H. **Strahlenther Onkol** 1996 Sep;172(9):521–2 **(Ger)**

[40 years breast carcinoma treatment in the Neubrandenburg region.Can an increase in prognostically more favorable stages be detected?] Rühle H, et al. **Z Arztl Fortbild Qualitatssich** 1997 Mar;91(2):135–7 (Eng. Abstr.) **(Ger)**

[Parsimony and secondary cancer prevention (editorial)] Segnan N. **Epidemiol Prev** 1995 Dec;19(65):293–6 **(Ita)**

[Risk factors and breast carcinoma: our experience in a department of senology] Galati G, et al. **G Chir** 1996 Jun-Jul;17(6-7):353–7 (Eng. Abstr.) **(Ita)**

[Impact of a screening program on the surgical treatment of breast carcinoma] Braga M, et al. **Minerva Chir** 1996 Dec;51(12):1095–106 (Eng. Abstr.) **(Ita)**

[Diagnostic role of mammography and clinical examination in the framework of a screening program for breast carcinoma in Brescia] Filippini L, et al. **Minerva Med** 1996 Nov;87(11):531–8 (Eng. Abstr.) **(Ita)**

[Early detection in the mass screening for breast cancer] Kuroishi T, et al. **Nippon Rinsho** 1996 May;54(5):1435–40 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Is there a basis for prevention of breast cancer with drugs?] Klemetsdal B. **Tidsskr Nor Laegeforen** 1997 Apr 20; 117(10):1493–5 (Eng. Abstr.) **(Nor)**

[Can breast cancer be prevented by drugs?] Kvinnsland S. **Tidsskr Nor Laegeforen** 1997 Apr 20;117(10):1437 **(Nor)**

[Calcifications visible in mammographic examination as a diagnostic problem] Urbanowicz Z, et al. **Ginekol Pol** 1996 Jul;67(7):366–9 (17 ref.) (Eng. Abstr.) **(Pol)**

[Preliminary results of the Russia (St.Petersburg)/WHO program for the evaluation of the effectiveness of breast self-examination] Semiglazov VF, et al. **Vopr Onkol** 1996; 42(4):49–55 (Eng. Abstr.) **(Rus)**

[Programs of early detection of breast cancer and access of mammography in Spain] Luengo S, et al. **Med Clin (Barc)** 1997 May 24;108(20):761–6 (Eng. Abstr.) **(Spa)**

[Use of screening mammography and its demographic and risk determinants in women 25 to 65 years of age] Simó Miñana J, et al. **Med Clin (Barc)** 1997 May 24; 108(20):767–71 (Eng. Abstr.) **(Spa)**

[The capacity of mammography to discover high-risk cases is the crucial question (letter; comment)] Tabár L. **Lakartidningen** 1996 Sep 18;93(38):3221. Comment on: Lakartidningen 1996 Apr 3;93(14):1329–33. **(Swe)**

PSYCHOLOGY

When a family member has a chronic, fatal illness. Primomo J. **Am J Nurs** 1997 Sep;97(9):70–2

Walk with me. Assuming the patient role can be a priceless lesson in empathy. Willette JE. **Am J Nurs** 1997 Jul;97(7):52

Implementing breast cancer screening guidelines: results of the Ontario Health Status Survey. Edwards N, et al. **Am J Prev Med** 1997 Mar-Apr;13(2):143–9

Knowledge, behavior, and fears concerning breast and cervical cancer among older low-income Mexican-American women. Suarez L, et al. **Am J Prev Med** 1997 Mar-Apr;13(2):137–42

Adjuvant therapy for breast cancer and psychological distress [letter] Montgomery GH, et al. **Ann Oncol** 1996 Nov; 7(9):977–8

Breast cancer survival: a phenomenological inquiry. Thibodeau J, et al. **ANS Adv Nurs Sci** 1997 Jun;19(4):65–74

A case of factitious breast cancer in order to receive chemotherapy [letter] Byard I, et al. **Aust N Z J Med** 1996 Aug;26(4):559

Role of a psychiatry liaison clinic in the management of breast cancer. Pendlebury SC, et al. **Australas Radiol** 1996 Aug; 40(3):283–6

Quality of life in breast cancer patients before and after autologous bone marrow transplantation. McQuellon RP, et al. **Bone Marrow Transplant** 1996 Sep;18(3):579–84

Pharmacological treatment of depression in cancer patients. A placebo-controlled study of mianserin. van Heeringen K, et al. **Br J Psychiatry** 1996 Oct;169(4):440–3

An evaluation of the quality of life among long-term survivors of breast cancer. Dow KH, et al. **Breast Cancer Res Treat** 1996;39(3):261–73

Breast cancer survivors: psychosocial concerns and quality of life. Ganz PA, et al. **Breast Cancer Res Treat** 1996; 38(2):183–99

Ethnic differences in risk perception among women at increased risk for breast cancer. Hughes C, et al. **Breast Cancer Res Treat** 1996;40(1):25–35

Assessing emotional distress of women with breast cancer: a survey of surgical oncologists. Trief PM, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):275–81

Surviving breast cancer. An emergency physician faces the fight of her life. Hugi M. **Can Med Assoc J** 1997 Feb 1; 156(3):397–9

Knowledge and attitude on screening mammography among low-literate, low-income women. Davis TC, et al. **Cancer** 1996 Nov 1;78(9):1912–20

A descriptive study of BRCA1 testing and reactions to disclosure of test results [see comments] Lynch HT, et al. **Cancer** 1997 Jun 1;79(11):2219–28. Comment in: Cancer 1997 Jun 1;79(11):2063–5; discussion 2066.

Treatment decision making in women newly diagnosed with breast cancer. Beaver K, et al. **Cancer Nurs** 1996 Feb; 19(1):8–19

Causal attributions, coping strategies, and adjustment to breast cancer. Lavery JF, et al. **Cancer Nurs** 1996 Feb; 19(1):20–8

The impact of a psychological intervention on quality of life in non-metastatic breast cancer. Marchioro G, et al. **Eur J Cancer** 1996 Aug;32A(9):1612–5

The voice of the breast cancer patient--a lonely cry in the wilderness. Thornton H. **Eur J Cancer** 1997 May; 33(6):825–8

A comparative study of post-operative psychosocial function in women with primary operable breast cancer randomized to breast conservation therapy or mastectomy. Poulsen B, et al. **Eur J Surg Oncol** 1997 Aug;23(4):327–34

Women worried about their familial breast cancer risk--a study on genetic advice in general practice. de Bock GH, et al. **Fam Pract** 1997 Feb;14(1):40–3

The connection between the psychological condition of breast cancer patients and survival. A follow-up after eight years. Gilbar O. **Gen Hosp Psychiatry** 1996 Jul;18(4):266–70

Coping styles associated with psychological adjustment to advanced breast cancer. Classen C, et al. **Health Psychol** 1996 Nov;15(6):434–7

Psychological responses to BRCA1 mutation testing: preliminary findings. Croyle RT, et al. **Health Psychol** 1997 Jan;16(1):63–72

Icelandic women's identifications of stressors and social support during the diagnostic phase of breast cancer. Fridfinnsdottir EB. **J Adv Nurs** 1997 Mar;25(3):526–31

Information needs of women during early treatment for breast cancer. Graydon J, et al. **J Adv Nurs** 1997 Jul; 26(1):59–64

The nature of social support as experienced by women treated for breast cancer. Lugton J. **J Adv Nurs** 1997 Jun; 25(6):1184–91

Meaning of illness for women with breast cancer. Luker KA, et al. **J Adv Nurs** 1996 Jun;23(6):1194–201

The emergence of the 'waiting game': a critical examination of the psychosocial issues in diagnosing breast cancer. Poole K. **J Adv Nurs** 1997 Feb;25(2):273–81 (62 ref.)

Women's experiences of non-invasive breast cancer: literature review and study report. Webb C, et al. **J Adv Nurs** 1997 Mar;25(3):514–25 (62 ref.)

Conflicting national recommendations and the use of screening mammography: does the physician's recommendation matter? Taplin SH, et al. **J Am Board Fam Pract** 1997 Mar-Apr;10(2):88–95

Teaching medical students by role playing: a model for integrating psychosocial issues with disease management. Mann BD, et al. **J Cancer Educ** 1996 Summer;11(2):65–72

Randomized trial of a psychologic distress screening program after breast cancer: effects on quality of life. Maunsell E, et al. **J Clin Oncol** 1996 Oct;14(10):2747–55

The European Organization for Research and Treatment of Cancer breast cancer-specific quality-of-life questionnaire module: first results from a three-country field study. Sprangers MA, et al. **J Clin Oncol** 1996 Oct;14(10):2756–68

Depression secondary to tumors in patients who underwent surgery for mammary carcinoma: psycho-pharmaceutical and psychotherapeutic care. La Raja MC, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):209–16

Personality factors and breast cancer development: a prospective longitudinal study. Bleiker EM, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1478–82

Psychological distress and intrusive thoughts in cancer patients. Baider L, et al. **J Nerv Ment Dis** 1997 May; 185(5):346–8

Development and testing of the symptom experience scale. Samarel N, et al. **J Pain Symptom Manage** 1996 Oct; 12(4):221–8

Are coping strategies related to disease outcome in early breast cancer? Buddeberg C, et al. **J Psychosom Res** 1996 Mar;40(3):255–64

Coping strategies and psychiatric morbidity in women attending breast assessment clinics. Chen CC, et al. **J Psychosom Res** 1996 Mar;40(3):265–70

Effectiveness of a training program for enhancing therapists' understanding of the supportive-expressive treatment model for breast cancer groups. Classen C, et al. **J Psychother Pract Res** 1997 Summer;6(3):211–8

Breast cancer patients' personality style, age, and treatment decision making. Johnson JD, et al. **J Surg Oncol** 1996 Nov;63(3):183–6

A piece of my mind. Through the looking glass. Schnipper HH. **JAMA** 1996 Nov 20;276(19):1535–6

The influences of patient characteristics and physician experience on case recall. Durante R, et al. **Med Decis Making** 1997 Apr-Jun;17(2):199–207

A call for open mindedness. George P. **Minn Med** 1996 Dec; 79(12):10–1, 46

The impact of breast cancer on sexuality. Kennedy BC, et al. **Nebr Med J** 1996 Mar;81(3):84–6

Breast cancer: a patient's perspective. Kocsis SM. **Nebr Med J** 1996 Mar;81(3):92–3

Depressive phenomena, physical symptom distress, and functional status among women with breast cancer. Pasacreta JV. **Nurs Res** 1997 Jul-Aug;46(4):214–21

Lessons learned from a pilot study of biobehavioral correlates of functional status in women with breast cancer. Tulman L, et al. **Nurs Res** 1996 Nov-Dec;45(6):356–8

Incentives and barriers to exercise in women with a history of breast cancer. Leddy SK. **Oncol Nurs Forum** 1997 Jun; 24(5):885–90

Commentary: psychosocial concerns. Vorpahl C. **Oncol Nurs Forum** 1996 Sep;23(8):1177–8

Concerns, affect, and cognitive disruption following completion of radiation treatment for localized breast or prostate cancer. Walker BL, et al. **Oncol Nurs Forum** 1996 Sep;23(8):1181–7

The development of anticipatory nausea in patients receiving adjuvant chemotherapy for breast cancer. Montgomery GH, et al. **Physiol Behav** 1997 May;61(5):737–41

Comparison of psychological symptoms of women requesting removal of breast implants with those of breast cancer patients and healthy controls. Wells KE, et al. **Plast Reconstr Surg** 1997 Mar;99(3):680–5

'Are life events related to the onset of breast cancer?' [letter; comment] Faragher EB, et al. **Psychol Med** 1997 Mar; 27(2):497–8. Comment on: Psychol Med 1996 May;26(3):441–7.

Subclinical depressive symptoms in HIV are related to avoidance coping responses: a comparison with end-stage renal failure and breast cancer. Fukunishi I, et al. **Psychol Rep** 1996 Apr;78(2):483–8

Women with high risk for breast cancer: psychological symptoms. Gilbar O. **Psychol Rep** 1997 Jun;80(3 Pt 1):800–2

Elevated basal cortisol levels and attenuated ACTH and cortisol responses to a behavioral challenge in women with metastatic breast cancer. van der Pompe G, et al. **Psychoneuroendocrinology** 1996 May;21(4):361–74

Side effects of adjuvant chemotherapy: perceptions of node-negative breast cancer patients. Beisecker A, et al. **Psychooncology** 1997 Jun;6(2):85–93

Quality of life in breast cancer survivors as identified by focus groups. Ferrell BR, et al. **Psychooncology** 1997 Mar; 6(1):13–23

Cognitive-existential group therapy for patients with primary breast cancer--techniques and themes. Kissane DW, et al. **Psychooncology** 1997 Mar;6(1):25–33

Coping and psychosocial adaptation: longitudinal effects over time and stages in breast cancer. Heim E, et al. **Psychosom Med** 1997 Jul-Aug;59(4):408–18

Measurement of quality of life in women with breast cancer. Development of a Life Satisfaction Questionnaire (LSQ-32) and a comparison with the EORTC QLQ-C30. Carlsson M, et al. **Qual Life Res** 1996 Apr;5(2):265–74

Quality of life of Danish women: population-based norms of the EORTC QLQ-C30. Klee M, et al. **Qual Life Res** 1997 Jan;6(1):27–34

Effect of support groups with coaching on adaptation to early stage breast cancer. Samarel N, et al. **Res Nurs Health** 1997 Feb;20(1):15–26

Social support and patterns of adjustment to breast cancer. Hoskins CN, et al. **Sch Inq Nurs Pract** 1996 Summer; 10(2):99–123; discussion 125–33

Psychosocial aspects of breast cancer treatment. Spiegel D. **Semin Oncol** 1997 Feb;24(1 Suppl 1):S1-36–S1-47 (137 ref.)

Psychological assessment and intervention: future prospects for women with breast cancer. Walker LG, et al. **Semin Surg Oncol** 1996 Jan-Feb;12(1):76–83 (45 ref.)

Social support as conversation: analysing breast cancer patients' interactions with their partners. Pistrang N, et al. **Soc Sci Med** 1997 Sep;45(5):773–82

Living with mastectomy and breast conservation treatment: who suffers more? Gilbar O, et al. **Support Care Cancer**

1997 Jul;5(4):322–6

Relationship between quality of life and mood in long-term survivors of breast cancer treated with mastectomy. Weitzner MA, et al. **Support Care Cancer** 1997 May; 5(3):241–8

Coping styles among Japanese women with breast cancer. Hosaka T, et al. **Tokai J Exp Clin Med** 1995 Jul; 20(2):137–41

[Psychoneuroimmunology and breast cancer] van der Pompe G. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2614–7 (33 ref.) **(Dut)**

[Support in the after care of patients operated for breast cancer] Maertens de Noordhout A. **Rev Med Liege** 1997 Feb;52(2):79–82 **(Fre)**

[Quality of life in relation to patient education regarding surgical procedures in primary breast carcinoma] Gerber B, et al. **Zentralbl Gynakol** 1997;119(4):149–53 (Eng. Abstr.) **(Ger)**

[The problem of non-medical support of breast cancer patients after radical surgery and its practical solution] Demin EV. **Vopr Onkol** 1996;42(5):92–5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Abdominal metastases of infiltrating lobular breast carcinoma: CT and fluoroscopic imaging findings. Kidney DD, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):156–9

Prescreening entire mammograms for masses with artificial neural networks: preliminary results. Kalman BL, et al. **Acad Radiol** 1997 Jun;4(6):405–14

Nature of expertise in searching mammograms for breast masses. Nodine CF, et al. **Acad Radiol** 1996 Dec; 3(12):1000–6

Variability in the interpretation of screening mammograms by US radiologists. Shile PE, et al. **Acad Radiol** 1996 Oct; 3(10):879–81; discussion 881–2

Digital mammography: performance considerations and current detector designs. Williams MB, et al. **Acad Radiol** 1996 May;3(5):429–37

Interobserver variation in the interpretation of breast imaging. Comparison of mammography, ultrasonography, and both combined in the interpretation of palpable noncalcified breast masses. Skaane P, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):497–502

Spindle cell lipoma of the breast. A case report. Smith DN, et al. **Acta Radiol** 1996 Nov;37(6):893–5

Intraductal placement of a Kopans spring-hookwire guide to localize nonpalpable breast lesions detected by galactography. Vega Bolivar A, et al. **Acta Radiol** 1997 Mar;38(2):240–2

Breast Cancer Surveillance Consortium: a national mammography screening and outcomes database. Ballard-Barbash R, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1001–8

Pathologic and mammographic findings predicting the adequacy of tumor excision before breast-conserving therapy. Beron PJ, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1409–14

Mammography of breast carcinoma in women who have mutations of the breast cancer gene BRCA1: initial experience. Helvie MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1599–602

Mammographic features of local recurrence in women who have undergone breast-conserving therapy for ductal carcinoma in situ. Liberman L, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):489–93

Assessment of the recent consensus development panel on screening women aged 40–49 for breast cancer. Monsees BS. **AJR Am J Roentgenol** 1997 Sep;169(3):625–6

Metaplastic carcinoma of the breast: mammographic appearance with pathologic correlation. Patterson SK, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):709–12

Mass detection in digitized mammograms using two independent computer-assisted diagnosis schemes. Zheng B, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1421–4

Race and mammography use in two North Carolina counties. O'Malley MS, et al. **Am J Public Health** 1997 May; 87(5):782–6

Mammographic assessment of the symptomatic nonsuspicious breast. Kerin MJ, et al. **Am J Surg** 1997 Mar;173(3):181–4

Breast cancer detection with sestamibi-Tc-99m and Tl-201 radionuclides in patients with non conclusive mammography. Alonso JC, et al. **Anticancer Res** 1997 May-Jun;17(3B):1661–5

Contribution of 99mTc-MIBI scintimammography to the diagnosis of non-palpable breast lesions in relation to mammographic probability of malignancy. Carril JM, et al. **Anticancer Res** 1997 May-Jun;17(3B):1677–81

99mTc-MIBI prone scintimammography in patients with high and intermediate risk mammography. Scopinaro F, et al. **Anticancer Res** 1997 May-Jun;17(3B):1635–8

Breast cancer—could it have been diagnosed earlier? Reid S, et al. **Aust Fam Physician** 1996 Nov;25(11):1752–3

Identifying sentinel node could reduce surgery in breast cancer [news] Bower H. **BMJ** 1997 Jul 5;315(7099):9

The detection of ductal carcinoma in situ at mammographic screening enables the diagnosis of small, grade 3 invasive tumours. Evans AJ, et al. **Br J Cancer** 1997;75(4):542–4

Mammographic screening after the age of 65 years: early outcomes in the Nijmegen programme. van Dijck J, et al. **Br J Cancer** 1996 Dec;74(11):1838–42

Film viewing conditions in mammography. Hill SJ, et al. **Br J Radiol** 1997 Apr;70:409–11

Focal spot sizes in dual-track Mo and Rh target mammographic X-ray tubes [letter] Law J, et al. **Br J Radiol** 1996 Nov;69(827):1077–8

Cancers detected and induced in mammographic screening: new screening schedules and younger women with family history. Law J. **Br J Radiol** 1997 Jan;70:62–9

Do non-specific minimal signs in a biennial mammographic breast cancer screening programme need further diagnostic assessment? Maes RM, et al. **Br J Radiol** 1997 Jan;70:34–38

Quality control programme in mammography: second level quality controls. Nassivera E, et al. **Br J Radiol** 1997 Jun; 70(834):612–8

Influence of number of views and mammographic film density on the detection of invasive cancers: results from the NHS Breast Screening Programme. Young KC, et al. **Br J Radiol** 1997 May;70(833):482–8

American Cancer Society guidelines for the early detection of breast cancer: update 1997. Leitch AM, et al. **CA Cancer J Clin** 1997 May-Jun;47(3):150–3

Impact of menstrual phase on false-negative mammograms in the Canadian National Breast Screening Study. Baines CJ, et al. **Cancer** 1997 Aug 15;80(4):720–4

The effect of patient and physician reminders on use of screening mammography in a health maintenance organization. Results of a randomized controlled trial. Burack RC, et al. **Cancer** 1996 Oct 15;78(8):1708–21

Automated analysis of mammographic densities and breast carcinoma risk. Byng JW, et al. **Cancer** 1997 Jul 1; 80(1):66–74

Patterns of mammographically detected calcifications after breast-conserving therapy associated with tumor recurrence. Dershaw DD, et al. **Cancer** 1997 Apr 1; 79(7):1355–61

Pelvic computed tomography of breast carcinoma patients. Should it routinely be added to abdominal computed tomography? Meyer JI, et al. **Cancer** 1997 Feb 1; 79(3):500–4

Benefits versus risks from mammography. A critical reassessment [letter; comment] Moss S, et al. **Cancer** 1997 Feb 1;79(3):628–9. Comment on: Cancer 1996 Mar 1;77(5):903–9.

An update on core needle biopsy for radiologically detected breast lesions. Nguyen M, et al. **Cancer** 1996 Dec 1; 78(11):2340–5 (17 ref.)

The influence of previous films on screening mammographic interpretation and detection of breast carcinoma. Callaway MP, et al. **Clin Radiol** 1997 Jul;52(7):527–9

Just how valuable is double reporting in screening mammography? [see comments] Denton ER, et al. **Clin Radiol** 1997 Jun;52(6):466–8. Comment in: Clin Radiol 1997 Jul;52(7):567.

The effect of hormone replacement therapy on recall rate in the National Health Service Breast Screening Programme. Litherland JC, et al. **Clin Radiol** 1997 Apr; 52(4):276–9

FDA clears Siemens' Opdima digital mammography biopsy & spot imaging system for U.S. marketing [news] **Compr Ther** 1997 Sep;23(9):621

Symmetry of projection in the quantitative analysis of mammographic images. Byng JW, et al. **Eur J Cancer Prev** 1996 Oct;5(5):319–27

Mammographic signs of potential relevance to breast cancer risk: the agreement of radiologists' classification. Jong R, et al. **Eur J Cancer Prev** 1996 Aug;5(4):281–6

The Tabár classification of mammographic parenchymal patterns. Gram IT, et al. **Eur J Radiol** 1997 Feb;24(2):131–6

Breast cancer: zones of increased density mammographic features, correlated to clinical TNM and prognosis. Langer-Cherbit A, et al. **Eur J Radiol** 1997 Jan;24(1):48–53

Mammographic patterns of inflammatory breast carcinoma: a retrospective study of 92 cases. Tardivon AA, et al. **Eur J Radiol** 1997 Feb;24(2):124–30

Impalpable breast lesions diagnosed by mammography: incidence of histologically confirmed malignancy. Rothman LP, et al. **Eur J Surg** 1996 Sep;162(9):691–4

Metastatic renal adenocarcinoma presenting in a breast screening programme. Bowditch MG, et al. **Eur J Surg Oncol** 1996 Dec;22(6):641–3

Mammographic features, predictors of early ipsilateral breast tumour recurrences? Dalberg K, et al. **Eur J Surg Oncol** 1996 Oct;22(5):483–90

Localization of impalpable breast lesions--a surgical approach [see comments] della Rovere GQ, et al. **Eur J Surg Oncol** 1996 Oct;22(5):478–82. Comment in: Eur J Surg Oncol 1997 Feb;23(1):91.

Breast cancer and reduction mammoplasty: the role of routine pre-operative mammography. van der Torre PM, et al. **Eur J Surg Oncol** 1997 Aug;23(4):341–2

Computer-assisted reading of mammograms. Karssemeijer N, et al. **Eur Radiol** 1997;7(5):743–8 (33 ref.)

The evaluation of mammographic microcalcification as biological malignancy in breast cancer. Tsuchiya A, et al. **Fukushima J Med Sci** 1996 Dec;42(1–2):17–22

Multiple giant fibroadenomas: clinical presentation and radiologic findings. Schneider B, et al. **Gynecol Obstet Invest** 1997;43(4):278–80

Sojourn time, sensitivity and positive predictive value of mammography screening for breast cancer in women aged 40–49. Duffy SW, et al. **Int J Epidemiol** 1996 Dec; 25(6):1139–45

Results of breast conserving therapy for early breast cancer and the role of mammographic follow-up. Grosse A, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):761–7

The value of setup portal films as an estimate of a patient's position throughout fractionated tangential breast irradiation: an on-line study. McGee KP, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):223–8

Robustness of computerized identification of masses in digitized mammograms. A preliminary assessment. Chang YH, et al. **Invest Radiol** 1996 Sep;31(9):563–8

Description and first clinical use of a new system for combined mammography and automated clinical amplitude/velocity reconstructive imaging breast sonography. Richter K, et al. **Invest Radiol** 1997 Jan; 32(1):19–28

Changing emphasis in breast diagnosis: the surgeon's role in evaluating mammographic abnormalities. Sterns EE. **J Am Coll Surg** 1997 Mar;184(3):297–302

Lesion detection in breast carcinoma. Mortier M, et al. **J Belge Radiol** 1997 Apr;80(2):85–8 (13 ref.)

A method for detecting microcalcifications in digital mammograms. Wallet BC, et al. **J Digit Imaging** 1997 Aug; 10(3 Suppl 1):136–9

Use of two view mammography compared with one view in the detection of small invasive cancers: further results from the National Health Service breast screening programme. Blanks RG, et al. **J Med Screen** 1997; 4(2):98–101

Epidemiological clues from screening [editorial] De Waard F. **J Med Screen** 1997;4(1):2

Effects at two years of a low-fat, high-carbohydrate diet on radiologic features of the breast: results from a randomized trial. Canadian Diet and Breast Cancer Prevention Study Group [see comments] Boyd NF, et al. **J Natl Cancer Inst** 1997 Apr 2;89(7):488–96. Comment in: J Natl Cancer Inst 1997 Apr 2;89(7):466–7.

The mammography consensus jury speaks out [news] Nelson NJ. **J Natl Cancer Inst** 1997 Mar 5;89(5):344–7 (00 ref.)

3-D histo-radiographic comparison of surgical clearances of microcalcified lesions in breast localization biopsies. Davies JD, et al. **J Pathol** 1997 May;182(1):45–53

The impact of clinical history on mammographic interpretations. Elmore JG, et al. **JAMA** 1997 Jan 1; 277(1):49–52

Hormone replacement therapy and high incidence of breast cancer between mammographic screens [letter; comment] [see comments] Beral V, et al. **Lancet** 1997 Apr 12; 349(9058):1103–4. Comment on: Lancet 1997 Feb 15;349(9050):472. Comment in: Lancet 1997 May 31;349(9065):1624. Comment in: Lancet 1997 May 31;349(9065):1624–5.

Effect of hormone replacement therapy on cancer detection by mammography [letter; comment] Cohen ME. **Lancet** 1997 May 31;349(9065):1624. Comment on: Lancet 1997 Feb 15;349(9050):472. Comment on: Lancet 1997 Apr 12;349(9058):1103–4.

Effect of hormone replacement therapy on cancer detection by mammography [letter; comment] Johnson A, et al. **Lancet** 1997 May 31;349(9065):1624–5. Comment on: Lancet 1997 Feb 15;349(9050):472. Comment on: Lancet 1997 Apr 12;349(9058):1103–4.

Hormone replacement therapy and high incidence of breast cancer between mammographic screens [letter; comment] Schouten LJ, et al. **Lancet** 1997 Apr 12;349(9058):1104. Comment on: Lancet 1997 Feb 15;349(9050):472.

A totally integrated simulation technique for three-field breast treatment using a CT simulator. Butker EK, et al. **Med Phys** 1996 Oct;23(10):1809–14

Automated detection of breast masses on mammograms using adaptive contrast enhancement and texture classification. Petrick N, et al. **Med Phys** 1996 Oct;23(10):1685–96

Quantitative classification of breast tumors in digitized mammograms [see comments] Pohlman S, et al. **Med Phys** 1996 Aug;23(8):1337–45. Comment in: Med Phys 1997 Feb;24(2):313, 315.

Verification and correction of setup deviations in tangential breast irradiation using EPID: gain versus workload. Pouliot J, et al. **Med Phys** 1996 Aug;23(8):1393–8

Image feature selection by a genetic algorithm: application to classification of mass and normal breast tissue. Sahiner B, et al. **Med Phys** 1996 Oct;23(10):1671–84

Using tissue texture surrounding calcification clusters to predict benign vs malignant outcomes. Thiele DL, et al. **Med Phys** 1996 Apr;23(4):549–55

False-positive reduction technique for detection of masses on digital mammograms: global and local multiresolution texture analysis. Wei D, et al. **Med Phys** 1997 Jun; 24(6):903–14

Whither scientific deliberation in health policy recommendations? Alice in the Wonderland of breast-cancer screening. Fletcher SW. **N Engl J Med** 1997 Apr 17;336(16):1180–3

Contentious screening decisions: does the choice matter? [editorial] [see comments] Pauker SG, et al. **N Engl J Med** 1997 Apr 24;336(17):1243–4. Comment in: N Engl J Med 1997 Aug 28;337(9):638; discussion 639. Comment in: N Engl J Med 1997 Aug 28;337(9):638–9; discussion 639. Comment in: N Engl J Med 1997 Aug 28;337(9):639.

Arguments about tossups [letter; comment] Zarin CA. **N Engl J Med** 1997 Aug 28;337(9):638–9; discussion 639 . Comment on: N Engl J Med 1997 Apr 24;336(17):1243–4.

An audit of 267 consecutively excised mammographically

detected breast lesions 1989–1993. Tomlinson J, et al. **Pathology** 1997 Feb;29(1):21–7

Automated analysis of mammographic densities. Byng JW, et al. **Phys Med Biol** 1996 May;41(5):909–23

Computerized classification of malignant and benign microcalcifications on mammograms: texture analysis using an artificial neural network. Chan HP, et al. **Phys Med Biol** 1997 Mar;42(3):549–67

Mammography of the postreconstruction breast. Leibman AJ, et al. **Plast Reconstr Surg** 1997 Mar;99(3):698–704

Frequency-domain techniques enhance optical mammography: initial clinical results. Franceschini MA, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6468–73

Lessons from mammographic-histopathologic correlation of large-core needle breast biopsy. Berg WA, et al. **Radiographics** 1996 Sep;16(5):1111–30 (31 ref.)

Breast imaging case of the day. Recurrent infiltrating ductal carcinoma and radiation-induced dystrophic calcifications. Parker CP, et al. **Radiographics** 1997 Jul–Aug;17(4):1011–3

Breast imaging case of the day. Granular cell tumor. Tobin CE, et al. **Radiographics** 1996 Jul;16(4):983–5

Breast imaging case of the day. Pure mucinous carcinoma with calcifying matrix. Wilson DA, et al. **Radiographics** 1997 May–Jun;17(3):800–4

Mammographic findings after 14-gauge automated needle and 14-gauge directional, vacuum-assisted stereotactic breast biopsies. Burbank F. **Radiology** 1997 Jul;204(1):153–6

Malignant and benign clustered microcalcifications: automated feature analysis and classification [letter; comment] de Kort GA, et al. **Radiology** 1996 Nov; 201(2):581–2. Comment on: Radiology 1996 Mar;198(3):671–8.

Spiculated axillary adenopathy. Dershaw DD, et al. **Radiology** 1996 Nov;201(2):439–42

Characteristics of breast carcinomas missed by screening radiologists. Goergen SK, et al. **Radiology** 1997 Jul; 204(1):131–5

Fibroadenomas: MR imaging appearances with radiologic-histopathologic correlation. Hochman MG, et al. **Radiology** 1997 Jul;204(1):123–9

Dilated duct pattern at mammography. Huynh PT, et al. **Radiology** 1997 Jul;204(1):137–41

Breast calcification and mass detection with mammographic anode-filter combinations of molybdenum, tungsten, and rhodium. Kimme-Smith CM, et al. **Radiology** 1997 Jun; 203(3):679–83

Overdiagnosis of medullary carcinoma: a mammographic-pathologic correlative study. Liberman L, et al. **Radiology** 1996 Nov;201(2):443–6

Mammographic findings of recurrent breast cancer after lumpectomy and radiation therapy: comparison with the primary tumor. Philpotts LE, et al. **Radiology** 1996 Dec; 201(3):767–71

Age and interval for screening mammography: whom do you believe? Venta LA, et al. **Semin Surg Oncol** 1996 Sep–Oct; 12(5):281–9 (39 ref.)

Determinants of quality in mammography. Bassett LW. **Surg Oncol Clin N Am** 1997 Apr;6(2):213–32 (41 ref.)

Current use and how to increase mammography screening in women. Rimer BK. **Surg Oncol Clin N Am** 1997 Apr; 6(2):203–11 (52 ref.)

Improved determination of breast cancer size in mammography. Sphiris N, et al. **Technol Health Care** 1996 Aug;4(2):163–8

Results of a mammographic and clinical screening in a health district (USSL) of Brescia, Italy. Filippini L, et al. **Tumori** 1996 Sep–Oct;82(5):430–6

The effects of health beliefs on screening mammography utilization among a diverse sample of older women. Thomas LR, et al. **Women Health** 1996;24(3):77–94

Compliance with mammography screening guidelines: 1995 Mammography Attitudes and Usage Study Report. Horton JA, et al. **Womens Health Issues** 1996 Sep–Oct;6(5):239–45

Impact of National Cancer Institute revised mammography screening guidelines on women 40–49. Morton E, et al. **Womens Health Issues** 1996 Sep–Oct;6(5):246–54

[Opportunistic screening of breast cancer in France] Wait S, et al. **Bull Cancer** 1997 Jun;84(6):619–24 (Eng. Abstr.) **(Fre)**

[Digital image magnification mammography with the storage-screen technique. Standardized and findings-oriented image processing parameters] Hundertmark C, et al. **Aktuelle Radiol** 1997 May; 7(3):135–40 (Eng. Abstr.) **(Ger)**

[Possibilities and limits of mammography with special reference to breast carcinoma--a comparison of clinical, mammography and histologic diagnoses] Neumann P, et al. **Zentralbl Gynakol** 1997;119(4):154–9 (Eng. Abstr.) **(Ger)**

[A new, more invasive approach in the radiation diagnosis of breast cancer] Forrai G, et al. **Orv Hetil** 1996 Jul 28; 137(30):1627–31 (Eng. Abstr.) **(Hun)**

[Test for the assessment of the diagnostic accuracy of mammography. Results of 103 tests carried out by Italian radiologists] Ciatto S, et al. **Radiol Med (Torino)** 1996 Oct; 92(4):367–71 (Eng. Abstr.) **(Ita)**

[Evaluation of thin section CT scanning in the prone position of metastatic axillary lymph nodes for breast cancer] Hata Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Dec; 56(14):1027–31 (Eng. Abstr.) **(Jpn)**

[Helical CT of the breast: detection of intraductal spread and multicentricity of breast cancer] Uematsu T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb;57(3):85–8 (Eng. Abstr.) **(Jpn)**

[Comprehensive radiographic diagnosis of breast cancer] Zaitsev AN, et al. **Vopr Onkol** 1996;42(6):58–60 (Eng. Abstr.) **(Rus)**

[Analysis of interval cancers in the Program of Early Diagnosis of Cancer of the Breast of the Community of Valencia. Group of Readers of the Prevention Units of Cancer of the Breast] Vizcaino Esteve I, et al. **Rev Clin Esp** 1996 Oct;196(10):703–5 (Eng. Abstr.) **(Spa)**

RADIONUCLIDE IMAGING

Studies of breast cancer imaging with radiolabeled antibodies to carcinoembryonic antigen. Immunomedics Breast Cancer Study Group. Goldenberg DM, et al. **Acta Med Austriaca** 1997;24(2):55–9

Scintimammography with Tc-99m sestamibi. Khalkhali I, et al. **Acta Med Austriaca** 1997;24(2):46–9

Scintimammography using Tc-99m tetrofosmin. Lind P, et al. **Acta Med Austriaca** 1997;24(2):50–4

Scintimammography in the diagnosis of breast cancer. Clifford EJ, et al. **Am J Surg** 1996 Nov;172(5):483–6

Accumulation of 99mTc-HMPAO and 99mTc-ECD in rodent and human breast tumor cell lines in vitro. Ballinger JR, et al. **Ann Nucl Med** 1997 May;11(2):95–9

Accumulation of Tc-99m MIBI in breast lymphoma: comparison with Ga-67 citrate. Nishiyama Y, et al. **Ann Nucl Med** 1996 Nov;10(4):429–32

Technetium-99m-sestamibi scintimammography of benign and malignant phyllodes tumors. Ohta H, et al. **Ann Nucl Med** 1997 Feb;11(1):37–9

Breast cancer detection with sestamibi-Tc-99m and Tl-201 radionuclides in patients with non conclusive mammography. Alonso JC, et al. **Anticancer Res** 1997 May–Jun;17(3B):1661–5

Value of 99m-Tc MIBI and 99m-Tc(V) DMSA scintigraphy in evaluation of breast mass lesions. Ambrus E, et al. **Anticancer Res** 1997 May–Jun;17(3B):1599–605

Value of 18fluoro-deoxyglucose positron emission tomography in the staging of recurrent breast carcinoma. Bender H, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1687–92

Uptake of Tc-99m MIBI related to tumour size and type. Buscombe JR, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1693–4

Contribution of 99mTc-MIBI scintimammography to the diagnosis of non-palpable breast lesions in relation to mammographic probability of malignancy. Carril JM, et al. **Anticancer Res** 1997 May–Jun;17(3B):1677–81

The usefulness of technetium-99m-MIBI scintimammography in diagnosis of breast cancer: using surgical histopathologic diagnosis as the gold standard. Chen SL, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1695–8

Yttrium-90/indium-111-DOTA-peptide-chimeric L6: pharmacokinetics, dosimetry and initial results in patients with incurable breast cancer. Denardo SJ, et al. **Anticancer Res** 1997 May–Jun;17(3B):1735–44

99mTc MIBI scintimammography with a high resolution single tube gamma camera: preliminary study. De Vincentis G, et al. **Anticancer Res** 1997 May–Jun;17(3B):1627–30

The development of estrogen and progestin radiopharmaceuticals for imaging breast cancer. Katzenellenbogen JA, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1573–6

Somatostatin receptor scintigraphy of non-neuroendocrine malignancies with 111In-pentetreotide. Limouris GS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1593–7

99mTc-antigranulocyte bone marrow scintigraphy of breast and prostate skeletal metastases. Limouris GS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1615–8

Technetium-99m tetrofosmin scintigraphy to evaluate breast lesions. Madariaga P, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1619–21

Role of thallium-201 chloride and Tc-99m methoxy-isobutyl-isonitrite (sestaMIBI) in evaluation of breast masses: correlation with the immunohistochemical characteristic parameters (Ki-67, PCNA, Bcl, and angiogenesis) in malignant lesions. Omar WS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1639–44

The role of Compton background and breast compression on cancer detection in scintimammography. Pani R, et al. **Anticancer Res** 1997 May–Jun;17(3B):1645–9

Single tube gamma camera for scintimammography. Pani R, et al. **Anticancer Res** 1997 May–Jun;17(3B):1651–4

Scintimammography with technetium-99m tetrofosmin in suspected breast cancer. Schillaci O, et al. **Anticancer Res** 1997 May–Jun;17(3B):1623–6

Technetium-99m sestamibi imaging in the detection of axillary lymph node involvement in patients with breast cancer. Schillaci O, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1607–10

99mTc-MIBI prone scintimammography in patients with high and intermediate risk mammography. Scopinaro F, et al. **Anticancer Res** 1997 May–Jun;17(3B):1635–8

A three center study on the diagnostic accuracy of 99mTc-MIBI scintimammography. Scopinaro F, et al. **Anticancer Res** 1997 May–Jun;17(3B):1631–4

The initial Australian experience of technetium-99M sestamibi scintimammography: a complementary test in the management of breast cancer. Sillar R, et al. **Aust N Z J Surg** 1997 Jul;67(7):433–7

99mTc-labeled sigma-receptor-binding complex: synthesis, characterization, and specific binding to human ductal breast carcinoma (T47D) cells. John CS, et al. **Bioconjug Chem** 1997 May–Jun;8(3):304–9

Role of MIBI breast scintigraphy in evaluation of palpable breast lesions. Lam WW, et al. **Br J Radiol** 1996 Dec; 69(828):1152–8

Positron emission tomography (PET) scanning in breast cancer. Powe JE. **Br J Radiol** 1997 Jul;70(835):668–70 (15 ref.)

Evaluation of palpable breast masses with 201TI scintigraphy [letter] Roebuck DJ. **Br J Radiol** 1996 Aug;69(824):785–6

Breast carcinoma fortuitously discovered on myocardial perfusion imaging. Gordon L, et al. **Clin Nucl Med** 1996 Apr;21(4):330

Primary lymphomas of the breast detected by Ga-67 scintigraphy. Koizumi M, et al. **Clin Nucl Med** 1996 Nov; 21(11):873–6

Radioimmunoscintigraphy with Tc-99m labeled monoclonal antibody 170H.82 in suspected primary, recurrent, or metastatic breast cancer. Lind P, et al. **Clin Nucl Med** 1997 Jan;22(1):30–4

Tc-99m sestamibi and Tc-99m HMDP uptake in a malignant phyllodes tumor of the breast. Ohta H, et al. **Clin Nucl Med** 1997 Aug;22(8):553–4

Recent advances in the diagnosis of breast cancer: scintimammography [editorial] Edell SL. **Del Med J** 1996 Mar;68(3):197–8

Nuclear medicine techniques for the study of breast cancer. Bombardieri E, et al. **Eur J Nucl Med** 1997 Jul;24(7):809–24 (142 ref.)

Breast cancer staging using technetium-99m sestamibi and indium-111 pentetreotide single-photon emission tomography. Chiti A, et al. **Eur J Nucl Med** 1997 Feb; 24(2):192–6

Comparison of uptake of 99mTc-MIBI, 99mTc-tetrofosmin and 99mTc-Q12 into human breast cancer cell lines. de Jong M, et al. **Eur J Nucl Med** 1996 Oct;23(10):1361–6

Wash-out kinetics of 99mTc-MIBI and the scintigraphic determination of PGP expression [letter; comment] Derebek E, et al. **Eur J Nucl Med** 1997 Jun;24(6):706. Comment on: Eur J Nucl Med 1997 Feb;24(2):150–9.

Radioimmunoscintigraphy in patients with breast adenocarcinoma using technetium-99m labelled monoclonal antibody 170H.82: report of a phase II study. McQuarrie SA, et al. **Eur J Nucl Med** 1997 Apr;24(4):381–9

Scintimammography with technetium-99m tetrofosmin [letter; comment] Mansi L, et al. **Eur J Nucl Med** 1996 Feb;23(2):229. Comment on: Eur J Nucl Med 1995 Sep;22(9):967–9.

Qualitative [18F]FDG positron emission tomography in primary breast cancer: clinical relevance and practicability. Scheidhauer K, et al. **Eur J Nucl Med** 1996 Jun; 23(6):618–23

In vivo detection of multidrug-resistant (MDR1) phenotype by technetium-99m sestamibi scan in untreated breast cancer patients [see comments] Vecchio SD, et al. **Eur J Nucl Med** 1997 Feb;24(2):150–9. Comment in: Eur J Nucl Med 1997 Jun;24(6):706.

Comparison of indium-111 octreotide and thallium-201 scintigraphy in patients mammographically suspected of having breast cancer: preliminary results. Vural G, et al. **Eur J Nucl Med** 1997 Mar;24(3):312–5

Scintigraphic imaging of breast tumors. Maublant J. **Eur J Radiol** 1997 Jan;24(1):2–10 (56 ref.)

Technetium-99m-sestamibi uptake in axillary lymph node metastases in breast cancer patients. Perre CI, et al. **Eur J Surg Oncol** 1997 Apr;23(2):142–4

New method for breast cancer detection using TC-99m sestamibi scintimammography. Yuen-Green M, et al. **Hawaii Med J** 1996 Feb;55(2):26–8

Imaging of estrogen receptors in primary and metastatic breast cancer patients with iodine-123-labeled Z-MIVE. Rijks LJ, et al. **J Clin Oncol** 1997 Jul;15(7):2536–45

Breast imaging with fluorine-18-FDG PET: quantitative image analysis. Avril N, et al. **J Nucl Med** 1997 Aug; 38(8):1186–91

Fractional retention of technetium-99m-sestamibi as an index of P-glycoprotein expression in untreated breast cancer patients. Del Vecchio S, et al. **J Nucl Med** 1997 Sep; 38(9):1348–51

Standardized uptake value and quantification of metabolism for breast cancer imaging with FDG and L-[1-11C]tyrosine PET. Kole AC, et al. **J Nucl Med** 1997 May;38(5):692–6

Clinical validation of the influence of P-glycoprotein on technetium-99m-sestamibi uptake in malignant tumors. Kostakoglu L, et al. **J Nucl Med** 1997 Jul;38(7):1003–8

Intense uptake of technetium-99m-MDP in primary breast adenocarcinoma with sarcomatoid metaplasia. Pickhardt PJ, et al. **J Nucl Med** 1997 Apr;38(4):528–30

Impact of lymphoscintigraphy on sentinel node identification with technetium-99m-colloidal albumin in breast cancer. Pijpers R, et al. **J Nucl Med** 1997 Mar;38(3):366–8

Utility and reproducibility of semiquantitative analysis of sestamibi breast images. Dunnwald LK, et al. **J Nucl Med Technol** 1997 Jun;25(2):106–9

Scintimammography with Tc-99m MIBI in patients with suspicion of primary breast cancer. Palmedo H, et al. **Nucl Med Biol** 1996 Aug;23(6):681–4

Radioimaging of human breast carcinoma xenografts in mice

by [123I]-labeled Z-17 alpha-iodovinyl-11 beta-chloromethyl-estradiol. Zeicher M, et al. **Nucl Med Biol** 1996 Jan;23(1):69–73

99Tcm-tetrofosmin scintigraphy in the evaluation of palpable breast masses. Adalet I, et al. **Nucl Med Commun** 1997 Feb; 18(2):118–21

Usefulness of 99Tcm-tetrofosmin scintimammography in palpable breast tumours. Batista JF, et al. **Nucl Med Commun** 1997 Apr;18(4):338–40

Design and assessment of a scintigraphy-guided biplane localization technique for breast tumours: a phantom study. Mena FJ, et al. **Nucl Med Commun** 1996 Aug;17(8):717–23

Targeting human breast tumour in xeno-grafted SCID mice with 99Tcm-glucarate. Petrov AD, et al. **Nucl Med Commun** 1997 Mar;18(3):241–51

Nuclear medicine imaging of breast cancer [editorial] Van Eijck CH, et al. **Nucl Med Commun** 1996 Nov;17(11):925–7 (17 ref.)

Tc-99m-tetrofosmin scintimammography: a prospective study in primary breast lesions. Lind P, et al. **Nuklearmedizin** 1996 Dec;35(6):225–9

Gamma probe guided sentinel node biopsy in breast cancer. Gulec SA, et al. **Q J Nucl Med** 1997 Sep;41(3):251–61 (61 ref.)

Scintimammography: the new role of technetium-99m Sestamibi imaging for the diagnosis of breast carcinoma. Khalkhali I, et al. **Q J Nucl Med** 1997 Sep;41(3):231–8 (42 ref.)

Breast cancer seeking agents: basic approach. Maffioli L, et al. **Q J Nucl Med** 1997 Sep;41(3):211–24 (121 ref.)

Diagnostic and prognostic role of 99mTc-Tetrofosmin in breast cancer. Mansi L, et al. **Q J Nucl Med** 1997 Sep; 41(3):239–50 (70 ref.)

Scintimammography with 99mTc-MDP in the detection of primary breast cancer. Piccolo S, et al. **Q J Nucl Med** 1997 Sep;41(3):225–30

Axillary lymph node metastases: screening with [F-18]2-deoxy-2-fluoro-D-glucose (FDG) PET. Adler LP, et al. **Radiology** 1997 May;203(2):323–7

Optimizing radiotherapy of the internal mammary chain in breast carcinoma by scintigraphy. Struikmans H, et al. **Radiother Oncol** 1996 Oct;41(1):15–20

Antibody imaging in breast cancer. Nabi HA. **Semin Nucl Med** 1997 Jan;27(1):30–9 (56 ref.)

The role of (99m)Tc methoxyisobutylisonitrile in imaging breast cancer. Waxman AD. **Semin Nucl Med** 1997 Jan; 27(1):40–54 (75 ref.)

Nuclear medicine techniques in breast imaging. Wahl RL. **Semin Ultrasound CT MR** 1996 Oct;17(5):494–505 (68 ref.)

Internal mammary chain lymphoscintigraphy (IML) and IML-guided internal mammary chain biopsy (GIMB) in breast cancer. Benti R, et al. **Tumori** 1997 Mar-Apr; 83(2):533–6

The role of internal mammary lymphoscintigraphy in the clinical staging and prognosis of patients with breast cancer. Casara D. **Tumori** 1997 Mar-Apr;83(2):526–9

Axillary node metastasis detection in breast cancer with 99mTc-sestaMIBI and 111In-pentetreotide. Chiti A, et al. **Tumori** 1997 Mar-Apr;83(2):537–8

99mTc-sestaMIBI breast scintigraphy. Colella AC, et al. **Tumori** 1997 Mar-Apr;83(2):520–2

The contribution of positron emission tomography (PET) with 18F-fluorodeoxyglucose (FDG) in the preoperative detection of axillary metastases of breast cancer: the experience of the National Cancer Institute of Milan. Crippa F, et al. **Tumori** 1997 Mar-Apr;83(2):542–3

Optimization of axillary lymphoscintigraphy to detect the sentinel node in breast cancer. De Cicco C, et al. **Tumori** 1997 Mar-Apr;83(2):539–41

The role of lymphoscintigraphy by periareolar injection in the evaluation of axillary lymph node metastases from breast cancer. Gasparini M, et al. **Tumori** 1997 Mar-Apr; 83(2):530–2

Radiopharmaceuticals for breast cancer imaging. Maffioli L, et al. **Tumori** 1997 Mar-Apr;83(2):512–4

Role of bone scan in breast cancer follow-up. Maffioli L, et al. **Tumori** 1997 Mar-Apr;83(2):547–9

99mTc-tetrofosmin in breast cancer: experience of the Second University of Naples. Mansi L, et al. **Tumori** 1997 Mar-Apr;83(2):523–5

Scintimammography (SMM) with 99mTc-MDP: an overview of the experience at the National Cancer Institute of Napoli. Piccolo S, et al. **Tumori** 1997 Mar-Apr; 83(2):515–9

Radioimmunodetection and radioimmunotherapy of breast cancer. Riva P, et al. **Tumori** 1997 Mar-Apr;83(2):552–7

Scintimammography--a new tool for breast cancer diagnosis. Khalkhali I, et al. **West J Med** 1996 Nov;165(5):302–3

[Possible uses of positron emission tomography in breast carcinoma] Römer W, et al. **Acta Med Austriaca** 1997; 24(2):60–2 (22 ref.) (Eng. Abstr.) **(Ger)**

[PET scan in general practice for diagnosis of breast carcinoma] Ruhlmann J, et al. **Acta Med Austriaca** 1997; 24(2):63–7 (Eng. Abstr.) **(Ger)**

[Detection of multi-focal breast carcinoma using 2[18F] fluoro-deoxy-D-glucose positron emission tomography (FDG-PET)] Scharl A, et al. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):434–7 (Eng. Abstr.) **(Ger)**

[Echocardiographic evaluation of cardiotoxicity induced by anthracycline therapy] Okada Y, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):585–9 (Eng. Abstr.) **(Jpn)**

[Second phase 99mTc-HMDP accumulation using three phase bone scintigraphy in a case of primary breast cancer] Nishiyama Y, et al. **Kaku Igaku** 1996 Jul;33(7):767–70 (Eng. Abstr.) **(Jpn)**

[Comparative study of 201Tl and 99mTc-MIBI in breast tumor] Fukumitsu N, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):974–9 (Eng. Abstr.) **(Jpn)**

RADIOTHERAPY

Cytologic findings in a case of postirradiation angiosarcoma of the breast [letter] Layfield LJ, et al. **Acta Cytol** 1997 Mar-Apr;41(2):612–4

Localised bullous pemphigoid following radiotherapy [letter] Cliff S, et al. **Acta Derm Venereol** 1996 Jul;76(4):330–1 (15 ref.)

Localized bullous pemphigoid after radiation therapy: two cases [letter] Ohata C, et al. **Acta Derm Venereol** 1997 Mar; 77(2):157

Cell line specific radiosensitizing effect of zalcitabine (2',3'-dideoxycytidine). Coucke PA, et al. **Acta Oncol** 1997; 36(2):199–205

A descriptive study of pulmonary complications after postoperative radiation therapy in node-positive stage II breast cancer. Lind PA, et al. **Acta Oncol** 1997;36(5):509–15

Skin treatment with bepanthen cream versus no cream during radiotherapy--a randomized controlled trial. Løkkevik E, et al. **Acta Oncol** 1996;35(8):1021–6

Breast cancer. Rutqvist LE. **Acta Oncol** 1996;35 Suppl 7:54–63

Sonographic tailoring of electron beam boost site after lumpectomy and radiation therapy for breast cancer. Birdwell RL, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):39–40

Late sequelae after radiation therapy for breast cancer: imaging findings. Iyer RB, et al. **AJR Am J Roentgenol** 1997 May;168(5):1335–8

Cellulitis of the breast as a complication of breast-conserving surgery and irradiation. Hughes LL, et al. **Am J Clin Oncol** 1997 Aug;20(4):338–41

Lumpectomy and breast irradiation for breast cancer after radiotherapy for lymphoma. Karasek K, et al. **Am J Clin Oncol** 1996 Oct;19(5):451–4

Lumpectomy and radiation treatment for invasive lobular carcinoma of the breast. Warneke J, et al. **Am J Surg** 1996 Nov;172(5):496–500

Paclitaxel-induced radiation recall dermatitis [letter] Bokemeyer C, et al. **Ann Oncol** 1996 Sep;7(7):755–6 (7 ref.)

Feasibility of postmastectomy radiation therapy after TRAM flap breast reconstruction. Hunt KK, et al. **Ann Surg Oncol** 1997 Jul-Aug;4(5):377–84

Treatment of metastatic bone pain using the bone seeking radiopharmaceutical Re-186-HEDP. De Klerk JM, et al. **Anticancer Res** 1997 May-Jun;17(3B):1773–7 (21 ref.)

Yttrium-90/indium-111-DOTA-peptide-chimeric L6: pharmacokinetics, dosimetry and initial results in patients with incurable breast cancer. Denardo SJ, et al. **Anticancer Res** 1997 May-Jun;17(3B):1735–44

Radioimmunotherapy for advanced breast cancer using I-131-ChL6 antibody. Denardo SJ, et al. **Anticancer Res** 1997 May-Jun;17(3B):1745–51

Palliative therapy using rhenium-186-HEDP in painful breast osseous metastases. Limouris GS, et al. **Anticancer Res** 1997 May-Jun;17(3B):1767–72

Gastric uptake during Re-186 HEDP bone scintigraphy. Limouris GS, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1779–81

Supraclavicular lymph node metastases (SLM) from breast cancer as only site of distant disease: has radiotherapy any role? Pergolizzi S, et al. **Anticancer Res** 1997 May-Jun; 17(3C):2303–8

Breast conservation: long-term results from Westmead Hospital. Zissiadis Y, et al. **Aust N Z J Surg** 1997 Jun; 67(6):313–9

Secondary tumours after prophylactic cranial irradiation. Leung J, et al. **Australas Radiol** 1996 Feb;40(1):43–4

Erythema multiforme-like reaction associated with radiotherapy. Veness MJ, et al. **Australas Radiol** 1996 Aug; 40(3):334–7

Vitiligo following radiotherapy for carcinoma of the breast [letter] Koo SW, et al. **Br J Dermatol** 1996 Nov; 135(5):852–3

Case report: severe fibrosis in a patient with scleroderma and previous radiotherapy--a case report and literature review. Aref I, et al. **Br J Radiol** 1996 Nov;69(827):1055–6 (9 ref.)

Long-term cardiac mortality after radiotherapy of breast cancer--application of the relative seriality model. Gagliardi G, et al. **Br J Radiol** 1996 Sep;69(825):839–46

Radiation-induced malignant mesenchymoma of the chest wall following treatment for breast cancer. Rustemeyer P, et al. **Br J Radiol** 1997 Apr;70:424–6

Radical choices in mastectomy [letter; comment] Leask DE. **Can Med Assoc J** 1997 Apr 15;156(8):1119, 1121. Comment on: Can Med Assoc J 1997 Jan 1;156(1):43–5.

Postmastectomy radiation: a modest benefit prevails for high risk patients [editorial; comment] Fowble B. **Cancer** 1997 Mar 15;79(6):1061–6; discussion 1067–8. Comment on: Cancer 1997 Mar 15;79(6):1138–49.

Pathologic margin involvement and the risk of recurrence in patients treated with breast-conserving therapy. Gage I, et al. **Cancer** 1996 Nov 1;78(9):1921–8

"One to three" or "four or more"? Selecting patients for postmastectomy radiation therapy [letter] Korzeniowski S. **Cancer** 1997 Oct 1;80(7):1357–8

"One to three" or "four or more"?: selecting patients for postmastectomy radiation therapy. Marks LB, et al. **Cancer** 1997 Feb 15;79(4):668–70

Mixed connective tissue disease and radiation toxicity. A case report. Mayr NA, et al. **Cancer** 1997 Feb 1;79(3):612–8 (12 ref.)

Incidence of malignant pleural mesothelioma after thoracic radiotherapy. Neugut AI, et al. **Cancer** 1997 Sep 1; 80(5):948–50

The role of radiotherapy in the management of operable locally advanced breast carcinoma: results of a randomized trial by the Eastern Cooperative Oncology Group [see comments] Olson JE, et al. **Cancer** 1997 Mar 15; 79(6):1138–49. Comment in: Cancer 1997 Mar 15;79(6):1061–6; discussion 1067–8.

The effects of postradiation treatment with tamoxifen on local control and cosmetic outcome in the conservatively treated breast. Wazer DE, et al. **Cancer** 1997 Aug 15;80(4):732–40

Consistency of patient information ... is this happening? Harris RL. **Cancer Nurs** 1997 Aug;20(4):274–6

Effect of multiple, repeated doses of radioimmunotherapy on target antigen expression (breast MUC-1 mucin) in breast carcinomas. Peterson JA, et al. **Cancer Res** 1997 Mar 15;57(6):1103–8

Changes in the proportion of types I and III collagen in the left ventricular wall of patients with post-irradiative pericarditis. Chello M, et al. **Cardiovasc Surg** 1996 Apr; 4(2):222–6

Artificial radiation menopause: where are the ovaries? Counsell R, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(4):250–3

An acute toxicity study on the effects of synchronous chemotherapy and radiotherapy in early stage breast cancer after conservative surgery. Fernando IN, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):234–8

Factors affecting acute skin toxicity in patients having breast irradiation after conservative surgery: a prospective study of treatment practice at the Royal Marsden Hospital. Fernando IN, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(4):226–33

Differences in telangiectasia incidence between centres are not readily predicted [letter; comment] Hendry JH, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):274–5. Comment on: Clin Oncol (R Coll Radiol) 1995;7(4):248–50.

Non-surgical management of early breast cancer in the United Kingdom: radiotherapy fractionation practices [letter; comment] Henk JM. **Clin Oncol (R Coll Radiol)** 1996;8(2):133. Comment on: Clin Oncol (R Coll Radiol) 1995;7(4):223–6.

Subclavian artery stenosis presenting as posterior cerebrovascular events after adjuvant radiotherapy for breast cancer. Lewis J, et al. **Clin Oncol (R Coll Radiol)** 1997;9(2):122–3

Facing breast cancer far from radiation therapy centres [letter; comment] Bathe OF, et al. **CMAJ** 1997 Aug 1; 157(3):251–3. Comment on: Can Med Assoc J 1997 Jan 1;156(1):25–35. Comment on: Can Med Assoc J 1997 Jan 1;156(1):43–5.

What will HMOs have in store next for medical care? [letter] Manoharan L. **Conn Med** 1996 Oct;60(10):631

Carcinoma of the esophagus treated with radical chemoradiation 19 years after irradiation for recurrent breast cancer. MacLeod C, et al. **Dis Esophagus** 1997 Apr; 10(2):145–8

Mixing anthracyclines and radiotherapy in early breast cancer: how safe is it? [corrected and republished article originally printed in Eur J Cancer 1996 Oct;32A(11):1845–8] HjiYiannakis P, et al. **Eur J Cancer** 1996 Dec;32A(13):2374–7 (41 ref.)

Mixing anthracyclines and radiotherapy in early breast cancer: how safe is it? [corrected and republished in Eur J Cancer 1996 Dec;32A(13):2374–7] HjiYiannakis P, et al. **Eur J Cancer** 1996 Oct;32A(11):1845–8 (41 ref.)

Has radiation therapy any role in signet-ring cell breast adenocarcinoma? [letter] Ruiz V, et al. **Eur J Cancer** 1997 May;33(6):977–8

The toxicity of radiotherapy following high-dose chemotherapy with peripheral blood stem cell support in high-risk breast cancer: a preliminary analysis. van der Wall E, et al. **Eur J Cancer** 1996 Aug;32A(9):1490–7

Detection of radiation-induced myocardial damage by technetium-99m sestamibi scintigraphy. Gyenes G, et al. **Eur J Nucl Med** 1997 Mar;24(3):286–92

IORT in breast carcinomas. Dubois JB, et al. **Front Radiat Ther Oncol** 1997;31:131–7

IORT for early breast cancer: a report on long-term results. Merrick HW 3rd, et al. **Front Radiat Ther Oncol** 1997; 31:126–30

Angiosarcomas of the breast developing post radiotherapy. Parham DM, et al. **Histopathology** 1997 Aug;31(2):189–95

Analysis of thermal parameters obtained during phase III trials of hyperthermia as an adjunct to radiotherapy in the treatment of breast carcinoma. Hand JW, et al. **Int J Hyperthermia** 1997 Jul-Aug;13(4):343–64

Regarding Harrington et al. IJROBP 34(3):579–584; 1996 [letter; comment] Alastuey I. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):524–5. Comment on: Int J Radiat Oncol Biol Phys 1996 Feb 1;34(3):579–84.

Consequences of optimization in PDR brachytherapy--is a routine geometrical optimization recommendable? Berns C, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15; 37(5):1171–80

Influence of modifications in breast irradiation technique on dose outside the treatment volume. Bieri S, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):117–25

Dosimetric analysis of intact breast irradiation in off-axis planes. Buchholz TA, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):261–7

Impact of setup variability on incidental lung irradiation during tangential breast treatment. Carter DL, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):109–15

Dosimetric comparison of treatment planning systems in irradiation of breast with tangential fields. Cheng CW, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):835–42

Trends in primary surgical and radiation therapy for localized breast cancer in the Detroit Metropolitan area 1973–1992. Chuba PJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):103–7

The use of ultrasonography in the localization of the lumpectomy cavity for interstitial brachytherapy of the breast. DeBiose DA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):755–9

Execution of a single-isocenter three-field technique, using a multileaf collimator or tray-mounted cerrobend blocks: effect on treatment time. De Meerleer GO, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):255–9

Extracapsular axillary node extension in patients receiving adjuvant systemic therapy: an indication for radiotherapy? Fisher BJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):551–9

Results of conservative surgery and radiation for mammographically detected ductal carcinoma in situ (DCIS). Fowble B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):949–57

First experiences with superfractionated skin irradiations using large afterloading molds. Fritz P, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):147–57

Early-stage bilateral breast cancer treated with breast-conserving surgery and definitive irradiation: the University of Pennsylvania experience. Fung MC, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):959–67

Regarding Fein et al. IJROBP 34(5):1009–1017; 1996 [letter; comment] Givens SS. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):525–6. Comment on: Int J Radiat Oncol Biol Phys 1996 Mar 15;34(5):1009–17.

Myocardial damage in breast cancer patients treated with adjuvant radiotherapy: a prospective study. Gyenes G, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):899–905

Treatment planning for primary breast cancer: a patterns of care study. Kutcher GJ, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):731–7

The value of setup portal films as an estimate of a patient's position throughout fractionated tangential breast irradiation: an on-line study. McGee KP, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):223–8

Is machine energy (4–8 MV) associated with outcome for stage I–II breast cancer patients? Monson JM, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1095–100

Fractionated half-body irradiation for pain palliation in widely metastatic cancers: comparison with single dose. Salazar OM, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):49–60

Long-term outcome with interstitial brachytherapy in the management of patients with early-stage breast cancer treated with breast-conserving therapy. Vicini FA, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):845–52

Low-dose-rate brachytherapy as the sole radiation modality in the management of patients with early-stage breast cancer treated with breast-conserving therapy: preliminary results of a pilot trial. Vicini FA, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):301–10

A dosimetry system for 192IR interstitial breast implants performed at the time of lumpectomy. Waterman FM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):229–35

Factors determining outcome in patients treated with interstitial implantation as a radiation boost for breast conservation therapy. Wazer DE, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):381–93

Phase III double-blind evaluation of an aloe vera gel as a prophylactic agent for radiation-induced skin toxicity. Williams MS, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):345–9

Localized scleroderma in breast cancer patients treated with supervoltage external beam radiation: radiation port scleroderma. Davis DA, et al. **J Am Acad Dermatol** 1996 Dec;35(6):923–7

Hormonal therapy prolongs survival in irradiated locally advanced breast cancer: a European Organization for Research and Treatment of Cancer Randomized Phase III Trial. Bartelink H, et al. **J Clin Oncol** 1997 Jan;15(1):207–15

Evaluation of irradiated heart volumes in stage I breast cancer patients treated with postoperative adjuvant radiotherapy. Gyenes G, et al. **J Clin Oncol** 1997 Apr; 15(4):1348–53

Reappraisal of the role of axillary lymph node dissection in the conservative treatment of breast cancer [see comments] Haffty BG, et al. **J Clin Oncol** 1997 Feb;15(2):691–700. Comment in: J Clin Oncol 1997 Jun;15(6):2476–7. Comment in: J Clin Oncol 1997 Aug;15(8):3023–4.

Patient preferences concerning the trade-off between the risks and benefits of routine radiation therapy after conservative surgery for early-stage breast cancer. Hayman JA, et al. **J Clin Oncol** 1997 Mar;15(3):1252–60

Role of a 10-Gy boost in the conservative treatment of early breast cancer: results of a randomized clinical trial in Lyon, France. Romestaing P, et al. **J Clin Oncol** 1997 Mar; 15(3):963–8

Time for integration of predictive factors for selection of breast cancer patients who need postoperative radiation therapy? [editorial; comment] Bergh J. **J Natl Cancer Inst** 1997 May 7;89(9):605–7 (31 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):639–45.

Randomized clinical trial of breast irradiation following lumpectomy and axillary dissection for node-negative breast cancer: an update. Ontario Clinical Oncology Group. Clark RM, et al. **J Natl Cancer Inst** 1996 Nov 20; 88(22):1659–64

Expression of p53, glutathione S-transferase-pi, and Bcl-2 proteins and benefit from adjuvant radiotherapy in breast cancer [see comments] Silvestrini R, et al. **J Natl Cancer Inst** 1997 May 7;89(9):639–45. Comment in: J Natl Cancer Inst 1997 May 7;89(9):605–7.

Radioimmunotherapy for breast cancer using indium-111/yttrium-90 BrE-3: results of a phase I clinical trial. DeNardo SJ, et al. **J Nucl Med** 1997 Aug;38(8):1180–5

Pleurocutaneous fistula as a complication of radiation treatment in locally advanced breast cancer. Samuel LM, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):138–9

Wide margin resection and brachytherapy for post-irradiation breast cancer recurrence. Chow LW, et al. **J Surg Oncol** 1997 May;65(1):55–6

Clinical indications for brachytherapy. Erickson B, et al. **J Surg Oncol** 1997 Jul;65(3):218–27 (76 ref.)

Local resection and brachytherapy confined to the lumpectomy site for early breast cancer: a pilot study. Perera F, et al. **J Surg Oncol** 1997 Aug;65(4):263–7; discussion 267–8 (7 ref.)

Advances in prevention of radiation damage to visceral and solid organs in patients requiring radiation therapy of the trunk. Ritter EF, et al. **J Surg Oncol** 1997 Feb;64(2):109–14

Breast irradiation in ductal carcinoma-in-situ [letter] Thornton H. **Lancet** 1997 May 24;349(9064):1555

Dissemination of clinical results. Mastectomy versus lumpectomy and radiation therapy. Young WW, et al. **Med Care** 1996 Oct;34(10):1003–17

Improved dose distribution with a universal acrylic breast compensator. Johnson JM, et al. **Med Dosim** 1996 Fall; 21(3):127–32

Dose distributions through the supraclavicular-axillary region of patients undergoing breast cancer treatment. Saw CB, et al. **Med Dosim** 1996 Fall;21(3):133–7

A totally integrated simulation technique for three-field breast treatment using a CT simulator. Butker EK, et al. **Med Phys** 1996 Oct;23(10):1809–14

Verification and correction of setup deviations in tangential breast irradiation using EPID: gain versus workload. Pouliot J, et al. **Med Phys** 1996 Aug;23(8):1393–8

Stopping metastases at their source [editorial; comment] Hellman S. **N Engl J Med** 1997 Oct 2;337(14):996–7. Comment on: N Engl J Med 1997 Oct 2;337(14):949–55. Comment on: N Engl J Med 1997 Oct 2;337(14):956–62.

Postoperative radiotherapy in high-risk premenopausal women with breast cancer who receive adjuvant chemotherapy. Danish Breast Cancer Cooperative Group 82b Trial [see comments] Overgaard M, et al. **N Engl J Med** 1997 Oct 2;337(14):949–55. Comment in: N Engl J Med 1997 Oct 2;337(14):996–7.

Adjuvant radiotherapy and chemotherapy in node-positive premenopausal women with breast cancer [see comments] Ragaz J, et al. **N Engl J Med** 1997 Oct 2;337(14):956–62 . Comment in: N Engl J Med 1997 Oct 2;337(14):996–7.

Sequencing of chemotherapy and radiotherapy in breast cancer [letter; comment] Stark JJ. **N Engl J Med** 1996 Oct 17;335(16):1240. Comment on: N Engl J Med 1996 May 23;334(21):1356–61.

Antifungal powder helps to reduce skin reactions. Brown CN, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1483

Effects of exercise on fatigue, physical functioning, and emotional distress during radiation therapy for breast cancer. Mock V, et al. **Oncol Nurs Forum** 1997 Jul; 24(6):991–1000

Concerns, affect, and cognitive disruption following completion of radiation treatment for localized breast or prostate cancer. Walker BL, et al. **Oncol Nurs Forum** 1996 Sep;23(8):1181–7

Management of radiation-induced brachial plexus neuropathy. Royal College Radiologists. **Oncology (Huntingt)** 1996 May;10(5):685, 689

Lumpectomy with and without radiation for early-stage breast cancer and DCIS. Marks LB, et al. **Oncology (Huntingt)** 1997 Sep;11(9):1361–8, 1371; discussion 1372, 1374 (68 ref.)

Defining the role of post-mastectomy radiotherapy: the new evidence [see comments] Pierce LJ, et al. **Oncology (Huntingt)** 1996 Jul;10(7):991–1002; discussion 1006–7, 1011. Comment in: Oncology (Huntingt) 1996 Nov;10(11):1610.

Breast conservation therapy after augmentation mammaplasty: is it appropriate? Handel N, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1216–24

Mammographic evaluation of the postsurgical and irradiated breast. Briggs J. **Radiol Technol** 1997 Mar-Apr; 68(4):287–304; quiz 305–8 (22 ref.)

Multileaf collimation in the treatment of the intact breast. McCormick B, et al. **Radiology** 1997 May;203(2):561–3

Accelerated hyperfractionation radiation therapy after lumpectomy and axillary lymph node dissection in patients with stage I or II breast cancer: pilot study. Schomberg PJ, et al. **Radiology** 1997 Feb;202(2):565–9

Breast-conserving radiation therapy: potential of inverse planning with intensity modulation. Smitt MC, et al. **Radiology** 1997 Jun;203(3):871–6

Patterns of dose variability in radiation prescription of breast cancer. Das IJ, et al. **Radiother Oncol** 1997 Jul;44(1):83–9

Accuracy of two- and three-dimensional photon dose calculation for tangential irradiation of the breast. Davis JB, et al. **Radiother Oncol** 1997 Mar;42(3):245–8

Active minimisation of radiation scatter during breast radiotherapy: management implications for young patients with good-prognosis primary neoplasms. Epstein RJ, et al. **Radiother Oncol** 1996 Jul;40(1):69–74

Electron arc irradiation of the postmastectomy chest wall: clinical results. Gaffney DK, et al. **Radiother Oncol** 1997 Jan;42(1):17–24

Dosimetric evaluation of compensation in radiotherapy of the breast: MLC intensity modulation and physical compensators. Hansen VN, et al. **Radiother Oncol** 1997 Mar;42(3):249–56

Relationship between the in vitro radiosensitivity of skin fibroblasts and the expression of subcutaneous fibrosis, telangiectasia, and skin erythema after radiotherapy. Johansen J, et al. **Radiother Oncol** 1996 Aug;40(2):101–9

Soft tissue sarcoma after treatment for breast cancer. Karlsson P, et al. **Radiother Oncol** 1996 Jan;38(1):25–31

Prognostic factors for breast recurrence after conservative breast surgery and radiotherapy: results from a randomised trial. Magee B, et al. **Radiother Oncol** 1996 Jun;39(3):223–7

CT planning of boost irradiation in radiotherapy of breast cancer after conservative surgery. Messer PM, et al. **Radiother Oncol** 1997 Mar;42(3):239–43

Salvage radiotherapy for local failures of lumpectomy and breast irradiation. Mullen EE, et al. **Radiother Oncol** 1997 Jan;42(1):25–9

Late cosmetic results of short fractionation for breast conservation. Olivotto IA, et al. **Radiother Oncol** 1996 Oct; 41(1):7–13

Effect of acetylsalicylic acid on radiation and cosmetic results after conservative surgery for early breast cancer: a randomized trial. Olivotto IA, et al. **Radiother Oncol** 1996 Oct;41(1):1–6

Optimizing radiotherapy of the internal mammary chain in breast carcinoma by scintigraphy. Struikmans H, et al. **Radiother Oncol** 1996 Oct;41(1):15–20

How much could the radiotherapy dose be altered for individual patients based on a predictive assay of normal-tissue radiosensitivity? Tucker SL, et al. **Radiother Oncol** 1996 Feb;38(2):103–13

Clinical target volume localization using conventional methods (anatomy and palpation) and ultrasonography in early breast cancer post-operative external irradiation. Valdagni R, et al. **Radiother Oncol** 1997 Mar;42(3):231–7

Measurement of the peripheral dose for the tangential breast treatment technique with Co-60 gamma radiation and high energy X-rays. Van der Giessen PH. **Radiother Oncol** 1997 Mar;42(3):257–64

Quality assurance procedures in radiotherapy of breast cancer. Ausili-Cefaro G, et al. **Rays** 1996 Oct-Dec; 21(4):622–33 **(Eng, Ita)**

Bronchiolitis obliterans organizing pneumonia after adjuvant radiotherapy for breast carcinoma. van Laar JM, et al. **Respir Med** 1997 Apr;91(4):241–4

Brachytherapy and breast cancer. White JR, et al. **Semin Surg Oncol** 1997 May-Jun;13(3):190–5 (38 ref.)

Long-term results of breast cancer patients treated by conservative surgery and radiotherapy. Levitt SH. **Strahlenther Onkol** 1996 Nov;172(11):631–2

Radiotherapy is a necessary adjuvant in the treatment of early breast cancer. Levitt SH. **Strahlenther Onkol** 1997 Aug; 173(8):435–6

The role of radiation therapy after local excision of invasive and noninvasive breast cancer. Marks LB, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):359–79 (86 ref.)

Radioimmunodetection and radioimmunotherapy of breast cancer. Riva P, et al. **Tumori** 1997 Mar-Apr;83(2):552–7

[European Society for Therapeutic Radiology and Oncology (ESTRO) Vienna (Austria), September 23–26 1996] Simon JM. **Cancer Radiother** 1997;1(1):94–8 **(Fre)**

[Sequencing of chemotherapy and radiotherapy following breast-preserving treatment of breast carcinoma] Sauer R, et al. **Strahlenther Onkol** 1996 Sep;172(9):516–7 **(Ger)**

[A prospective study on abandoning postoperative breast irradiation after tumorectomy in small breast carcinoma broken off] Sauer R. **Strahlenther Onkol** 1996 Oct; 172(10):581–2 **(Ger)**

[Radiotherapy in the treatment of operable breast cancer] Fodor J. **Orv Hetil** 1996 Jun 16;137(24):1303–7 (Eng. Abstr.) **(Hun)**

[Radiotherapy of the breast: changes in the volume of the lung covered in the treatment fields and resulting changes in dose distribution] Bonetta A, et al. **Radiol Med (Torino)** 1996 Nov;92(5):634–7 (Eng. Abstr.) **(Ita)**

[Assessment of the accuracy of position in breast irradiation

with isocentric technique using an electronic system to acquire portal images] Greco C, et al. **Radiol Med (Torino)** 1997 Mar;93(3):254–9 (Eng. Abstr.) **(Ita)**

[Comparison between measured and computed absorbed dose values in the tangential treatment of the breast] Piermattei A, et al. **Radiol Med (Torino)** 1997 May;93(5):600–6 (Eng. Abstr.) **(Ita)**

[Factors affecting the contralateral dose for the non-treated breast in irradiation following quadrantectomy] Stasi M, et al. **Radiol Med (Torino)** 1997 May;93(5):596–9 (Eng. Abstr.) **(Ita)**

[Clinical and methodological aspects of quality assurance in external radiotherapy: optimization of radiotherapy in early cancer of the breast] Valdagni R, et al. **Radiol Med (Torino)** 1996 Oct;92(4):462–9 (68 ref.) (Eng. Abstr.) **(Ita)**

[Experience in treatment of patients with locally advanced or recurrent breast cancer: intraarterial infusion chemotherapy combined with radiotherapy] Murakami M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):189–94 (Eng. Abstr.) **(Jpn)**

[Use of reactor neutrons in the multimodal treatment of patients with breast cancer] Mardynskiĭ IuS, et al. **Vestn Ross Akad Med Nauk** 1996;(5):24–6 (Eng. Abstr.) **(Rus)**

[Correction of trace element metabolism in patients with breast cancer during radiation therapy] Shkala LV. **Vopr Onkol** 1997;43(3):273–4 (Eng. Abstr.) **(Rus)**

[Palliative irradiation in the treatment of breast carcinoma] Borojević N, et al. **Srp Arh Celok Lek** 1996 Sep–Oct; 124(9–10):255–9 (18 ref.) (Eng. Abstr.) **(Scc)**

[Is timing important in adjuvant radiotherapy?] Ramón Baeza M. **Rev Med Chil** 1996 Jul;124(7):859–64 (16 ref.) (Eng. Abstr.) **(Spa)**

REHABILITATION

Breast-cancer survivors begin to challenge exercise taboos. Kent H. **Can Med Assoc J** 1996 Oct 1;155(7):969–71

Exercise as rehabilitation for cancer patients. Friendenreich CM, et al. **Clin J Sport Med** 1996 Oct;6(4):237–44

[Menopausal symptoms in breast carcinoma patients. Is effective treatment possible?] Rauthe G. **Fortschr Med** 1996 Feb 20;114(5):46–8 (Eng. Abstr.) **(Ger)**

[Physical complaints, stress and quality of life of oncologic patients. Effects and patient assessment in inpatient rehabilitation] Gärtner U, et al. **Med Klin** 1996 Aug 15; 91(8):501–8 (Eng. Abstr.) **(Ger)**

SECONDARY

Small cell neuroendocrine carcinoma: cytologic findings in a breast aspirate [letter] Ali SZ, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1237–40

Metastases to the breast from extramammary neoplasms. A report of six cases with diagnosis by fine needle aspiration cytology. Domanski HA. **Acta Cytol** 1996 Nov–Dec; 40(6):1293–300

Chordoma metastatic to the breast diagnosed by fine needle aspiration. A case report. Gupta RK, et al. **Acta Cytol** 1997 May–Jun;41(3):910–2

Adult embryonal rhabdomyosarcoma metastatic to the breast and diagnosed by fine needle aspiration. A case report. Lai CR, et al. **Acta Cytol** 1997 May–Jun;41(3):845–8

Mammographic and sonographic findings in metastatic transitional cell carcinoma of the breast. Belton AL, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):511–2

Breast metastasis from non-Hodgkin's lymphoma: evaluation with color doppler sonography [letter] Kiziltepe TT, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1595–6

Metaplastic carcinoma of the breast: mammographic appearance with pathologic correlation. Patterson SK, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):709–12

Radioimmunoassay for serum apolipoprotein D, an atypical apolipoprotein: validation and clinical application. Osundeko O, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):537–42

Activity and toxicity of docetaxel (Taxotere) in women with previously treated metastatic breast cancer. Shapiro JD, et al. **Aust N Z J Med** 1997 Feb;27(1):40–4

Breast metastases from primary leiomyosarcoma. Tulasi NR, et al. **Aust N Z J Surg** 1997 Jan;67(1):71–2

Malignant melanoma presenting as bilateral breast masses. Jayalakshmi S, et al. **Australas Radiol** 1997 Feb;41(1):38–40 (11 ref.)

Identification of the region(s) of human DNA responsible for metastasis in breast cancer. Chen HJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):354S

Evidence that intracellular phosphatidate may regulate breast cancer cell invasion and metastasis. de Takats PG, et al. **Biochem Soc Trans** 1996 Aug;24(3):374S

Chemotherapy-induced neutropenia and fever in patients with metastatic breast carcinoma receiving salvage chemotherapy. Rahman Z, et al. **Cancer** 1997 Mar 15; 79(6):1150–7

Apoptosis and metastasis: increased apoptosis resistance of metastatic cancer cells is associated with the profound deficiency of apoptosis execution mechanisms. Glinsky GV, et al. **Cancer Lett** 1997 May 19;115(2):185–93

MT1-MMP correlates with MMP-2 activation potential seen after epithelial to mesenchymal transition in human breast carcinoma cells [published erratum appears in Clin Exp Metastasis 1997 May;15(3):338] Pulyaeva H, et al. **Clin Exp Metastasis** 1997 Mar;15(2):111–20

Acquired heparin-like anticoagulants: a second case in metastatic breast carcinoma and literature review. Hill GR, et al. **Clin Lab Haematol** 1996 Dec;18(4):291–5 (27 ref.)

Malignant hypercalcaemia in pregnancy and antenatal administration of intravenous pamidronate. Illidge TM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):257–8

Metastatic neoplasms of the breast: fine-needle aspiration cytology of two cases. Ferrara G, et al. **Diagn Cytopathol** 1996 Aug;15(2):139–43

Fine-needle aspiration cytology of metastatic ovarian carcinoma to the breast. Raptis S, et al. **Diagn Cytopathol** 1996 Jul;15(1):1–6 (14 ref.)

Breast metastases of Merkel cell carcinoma. Schnabel T, et al. **Eur J Cancer** 1996 Aug;32A(9):1617–8

Solitary breast metastasis as the first sign of a squamous cell carcinoma of the cervix: imaging findings. Kelkar PS, et al. **Eur J Radiol** 1997 Feb;24(2):159–62

Metastatic renal adenocarcinoma presenting in a breast screening programme. Bowditch MG, et al. **Eur J Surg Oncol** 1996 Dec;22(6):641–3

Fine-needle aspiration in the diagnosis of metastatic ovarian cancer to the breast. Hennigan CA, et al. **Gynecol Oncol** 1997 Mar;64(3):533–40 (32 ref.)

Immunohistochemical differentiation of metastatic breast carcinomas from metastatic adenocarcinomas of other common primary sites. Kaufmann O, et al. **Histopathology** 1996 Sep;29(3):233–40

Bilateral mammary metastasis of alveolar soft part sarcoma—a case report. Muzumdar GA, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):325–7

Randomized trial comparing two different modalities of administration of the same cytotoxic drugs in metastatic breast cancer. Pierga JY, et al. **J Infus Chemother** 1995 Fall;5(4):197–200

Solitary metastatic breast carcinoma in a trigeminal nerve mimicking a trigeminal neurinoma. Case report. Nakano I, et al. **J Neurosurg** 1996 Oct;85(4):677–80

Renal carcinoma: bilateral breast metastases in a child. Pursner M, et al. **Pediatr Radiol** 1997 Mar;27(3):242–3

Intramedullary spinal cord metastasis: report of three cases and review of the literature. Connolly ES Jr, et al. **Surg Neurol** 1996 Oct;46(4):329–37; discussion 337–8

[A rare differential diagnosis of suspicious contrast medium enhancement in breast MRI. Melanoma metastasis in both breasts] Heinig A, et al. **Radiologe** 1997 Jul;37(7):588–90 **(Ger)**

[Atypical metastasis of stomach carcinoma] Friedrich T, et al. **Zentralbl Chir** 1997;122(2):117–21 (Eng. Abstr.) **(Ger)**

SECRETION

Nonpalpable breast cancer with nipple discharge: how should it be treated? Ito Y, et al. **Anticancer Res** 1997 Jan–Feb; 17(1B):791–4

Parathyroid hormone-related protein secretion is inhibited by oestradiol and stimulated by antioestrogens in KPL-3C human breast cancer cells. Kurebayashi J, et al. **Br J Cancer** 1997;75(12):1819–25

Presence of elevated carcinoembryonic antigen on absorbent disks applied to nipple area of breast carcinoma patients. Imayama S, et al. **Cancer** 1996 Sep 15;78(6):1229–34

Assessment of PCB estrogenicity in a human breast cancer cell line. Gierthy JF, et al. **Chemosphere** 1997 Mar–Apr; 34(5–7):1495–505

Secretory products of breast cancer cells specifically affect human osteoblastic cells: partial characterization of active factors. Siwek B, et al. **J Bone Miner Res** 1997 Apr; 12(4):552–60

[Mucous-secreting breast cancer] Frank GA, et al. **Arkh Patol** 1997 Jul–Aug;59(4):46–9 (Eng. Abstr.) **(Rus)**

SURGERY

One case of Stewart-Treves syndrome successfully treated at two years by chemotherapy and radiation therapy in a 73-year-old woman. Malhaire JP, et al. **Acta Oncol** 1997; 36(4):442–3

Analysis of adjuvant treatment in postmenopausal patients with stage II invasive breast carcinoma—a pattern of care study and quality assurance of 431 consecutive patients in Oslo 1980–1989. Raabe NK, et al. **Acta Oncol** 1997; 36(3):255–60

Impact of core biopsy on the surgical management of impalpable breast cancer. Liberman L, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):495–9

Re: Detection with MR imaging of residual tumor in the breast soon after surgery [letter; comment] Orel S. **AJR Am J Roentgenol** 1997 Sep;169(3):909–10. Comment on: AJR Am J Roentgenol 1997 Feb;168(2):485–8.

Carcinoma en cuirasse: uncontrolled local recurrence of breast carcinoma after transverse rectus abdominis myocutaneous flap reconstruction [letter] Wells DC, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):914–5

Lumpectomy and breast irradiation for breast cancer after radiotherapy for lymphoma. Karasek K, et al. **Am J Clin Oncol** 1996 Oct;19(5):451–4

Prevention and treatment of lymphedema after breast cancer. Price J, et al. **Am J Nurs** 1997 Sep;97(9):34–7

A prospective randomized trial of high versus low vacuum drainage after axillary dissection for breast cancer. Bonnema J, et al. **Am J Surg** 1997 Feb;173(2):76–9

Image-guided breast biopsy. Burns RP. **Am J Surg** 1997 Jan; 173(1):9–11; discussion 12–3 (16 ref.)

T1 breast carcinoma in women 70 years of age and older may not require axillary lymph node dissection. Feigelson BJ, et al. **Am J Surg** 1996 Nov;172(5):487–9; discussion 489–90

Surveillance in the management of the cancer patient with special reference to breast and colon cancer. Gardner B. **Am J Surg** 1997 Feb;173(2):141–4

The value of axillary dissection in T1a breast cancer. McGee JM, et al. **Am J Surg** 1996 Nov;172(5):501–4; discussion 504–5

Lumpectomy and radiation treatment for invasive lobular carcinoma of the breast. Warneke J, et al. **Am J Surg** 1996 Nov;172(5):496–500

Fibrin sealant reduces serous drainage and allows for earlier drain removal after axillary dissection: a randomized prospective trial. Moore MM, et al. **Am Surg** 1997 Jan; 63(1):97–102

The impact of image-directed core biopsy on the practice of breast surgery: a new algorithm for a changing technology. Stolier AJ, et al. **Am Surg** 1997 Sep; 63(9):827–30

Difficulty of obtaining wide tumour to deep fascial margins in Asian women with breast cancers: implications on treatment and prognosis. Ng EH, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):241–4

Immediate breast reconstruction. A review. Kroll SS. **Ann Chir Gynaecol** 1997;86(1):5–12 (18 ref.)

Thermal injuries following TRAM flap breast reconstruction. Alexandrides IJ, et al. **Ann Plast Surg** 1997 Apr; 38(4):335–41

Immediate breast reconstruction in patients with locally advanced disease. Sultan MR, et al. **Ann Plast Surg** 1997 Apr;38(4):345–9; discussion 350–1

A method of breast reconstruction with a deepithelialized TRAM flap via the abdominal approach for failed implant salvage in postmastectomy patients. Yager JS, et al. **Ann Plast Surg** 1997 Aug;39(2):178–81

Breast incisions for conservation surgery [letter] Benson EA. **Ann R Coll Surg Engl** 1997 May;79(3):233

The treacherous fibroadenoma: a 'mighty mouse' [letter; comment] Dixon JM. **Ann R Coll Surg Engl** 1996 Sep; 78(5):479. Comment on: Ann R Coll Surg Engl 1996 Mar;78(2):154.

Breast incisions for conservation surgery [letter] Dixon JM, et al. **Ann R Coll Surg Engl** 1997 Sep;79(5):387–8

Subpectoral breast reconstruction using the biodimensional system. Hayes AJ, et al. **Ann R Coll Surg Engl** 1997 Sep; 79(5):355–60

Breast incisions for conservation surgery [letter] Mirza M, et al. **Ann R Coll Surg Engl** 1997 Sep;79(5):387

The treacherous fibroadenoma: a 'mighty mouse' [letter; comment] Webb AJ. **Ann R Coll Surg Engl** 1996 Nov; 78(6):557–8. Comment on: Ann R Coll Surg Engl 1996 Mar;78(2):154.

Skin-sparing mastectomy. Oncologic and reconstructive considerations. Carlson GW, et al. **Ann Surg** 1997 May; 225(5):570–5; discussion 575–8

Ambulatory surgical management of breast carcinoma using a paravertebral block [letter; comment] Dalton EP. **Ann Surg** 1997 Mar;225(3):341. Comment on: Ann Surg 1995 Jul;222(1):19–26.

Simultaneous bilateral breast reconstruction with the transverse rectus abdominus musculocutaneous free flap. Khouri RK, et al. **Ann Surg** 1997 Jul;226(1):25–34

Patient, hospital, and surgeon factors associated with breast conservation surgery. A statewide analysis in North Carolina. Kotwall CA, et al. **Ann Surg** 1996 Oct; 224(4):419–26; discussion 426–9

Node-negative breast cancer patients exposed to unnecessary perioperative risk and increased long-term morbidity [letter; comment] Noguchi M. **Ann Surg** 1997 Jan; 225(1):126–7. Comment on: Ann Surg 1994 Sep;220(3):391–8; discussion 398–401. Comment on: Ann Surg 1995 Sep;222(3):394–9; discussion 399–401.

Is surgical management compromised in elderly patients with breast cancer? Wanebo HJ, et al. **Ann Surg** 1997 May; 225(5):579–86; discussion 586–9

Risk of recurrence after treatment of early breast cancer with skin-sparing mastectomy. Kroll SS, et al. **Ann Surg Oncol** 1997 Apr–May;4(3):193–7

Factors associated with local breast cancer recurrence after lumpectomy alone. McCready DR, et al. **Ann Surg Oncol** 1996 Jul;3(4):358–66

Predictors of breast-conserving surgery in Connecticut, 1990–1992. Polednak AP. **Ann Surg Oncol** 1997 Apr–May; 4(3):259–63

Delayed shoulder exercises in reducing seroma frequency after modified radical mastectomy: a prospective randomized study. Schultz I, et al. **Ann Surg Oncol** 1997 Jun;4(4):293–7

Risk associated with unexpected lobular carcinoma in situ [letter] Shiffman MA. **Ann Surg Oncol** 1996 Nov;3(6):590–1

Immediate breast reconstruction for stage III breast cancer using transverse rectus abdominis musculocutaneous (TRAM) flap. Styblo TM, et al. **Ann Surg Oncol** 1996 Jul; 3(4):375–80

Documentation of the surgical procedure: a tool for quality assessment for breast conservative treatment. Christiaens MR. **Anticancer Res** 1996 Nov–Dec;16(6C):3955–8

Axillary dissection can be avoided in selected breast cancer

patients: analysis of 401 cases. Greco M, et al. **Anticancer Res** 1996 Nov-Dec;16(6C):3913-7

Breast conserving surgery with nipple resection. Iino Y, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3185-7

Nonpalpable breast cancer with nipple discharge: how should it be treated? Ito Y, et al. **Anticancer Res** 1997 Jan-Feb; 17(1B):791-4

Thrombomodulin is a new biological and prognostic marker for breast cancer: an immunohistochemical study. Kim SJ, et al. **Anticancer Res** 1997 May-Jun;17(3C):2319-23

Timing of surgery related to menstrual cycle and prognosis of premenopausal women with breast cancer. Mondini G, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):787-90

Axillary lymphadenectomy for breast cancer. Paradigm shifts and pragmatic surgeons. Dent DM. **Arch Surg** 1996 Nov; 131(11):1125-7

Change in the use of breast-conserving surgery in western Washington after the 1990 NIH Consensus Development Conference. Lazovich D, et al. **Arch Surg** 1997 Apr; 132(4):418-23

Large-core needle biopsy of nonpalpable breast cancers. The impact on subsequent surgical excisions. Smith DN, et al. **Arch Surg** 1997 Mar;132(3):256-9; discussion 260

Cryosurgery of breast cancer. Staren ED, et al. **Arch Surg** 1997 Jan;132(1):28-33; discussion 34

Surgical treatment of breast cancer in New South Wales 1991, 1992. Adelson P, et al. **Aust N Z J Surg** 1997 Jan;67(1):9-14

Omental transposition flap for gross locally recurrent breast cancer. Cheung KL, et al. **Aust N Z J Surg** 1997 Apr; 67(4):185-6

Breast cancer: current issues in diagnosis and treatment [letter; comment] Crowley J. **Aust N Z J Surg** 1997 Jul; 67(7):476. Comment on: Aust N Z J Surg 1997 Jan;67(1):47-58.

Cosmesis following complete local excision of breast cancer. Lindsey I, et al. **Aust N Z J Surg** 1997 Jul;67(7):428-32

Breast conservation: long-term results from Westmead Hospital. Zissiadis Y, et al. **Aust N Z J Surg** 1997 Jun; 67(6):313-9

Menstrual phase and timing of breast cancer surgery: statistical aspects [letter] Haeusler G, et al. **Br J Cancer** 1996 Dec;74(11):1851-2

Characteristics of the menstrual cycle at the time of surgery for breast cancer. Holdaway IM, et al. **Br J Cancer** 1997; 75(3):413-6

Inequalities in breast cancer care and outcome. Richards M, et al. **Br J Cancer** 1997;76(5):634-8

Pain and other symptoms during the first year after radical and conservative surgery for breast cancer. Tasmuth T, et al. **Br J Cancer** 1996 Dec;74(12):2024-31

Adjuvant treatment in high-risk breast cancer [letter; comment] Leonard RC. **Br J Hosp Med** 1996 Jul 10-Aug 20;56(2-3):112. Comment on: Br J Hosp Med 1996 Feb 21-Mar 5;55(4):156-8.

Adjuvant treatment in high-risk breast cancer [letter; comment] Mansi JL. **Br J Hosp Med** 1996 Jul 10-Aug 20;56(2-3):112. Comment on: Br J Hosp Med 1996 Feb 21-Mar 5;55(4):156-8.

Giant lipoma of the breast. Rodriguez LF, et al. **Br J Plast Surg** 1997 Jun;50(4):263-5

Conservative management of fibroadenoma of the breast [letter; comment] Dixon JM. **Br J Surg** 1996 Dec; 83(12):1798-9. Comment on: Br J Surg 1996 Jul;83(7):992-3.

Pilonidal cyst of the breast. Ferdinand RD, et al. **Br J Surg** 1997 Jun;84(6):784

Role of cytokines and growth factors in promoting the local recurrence of breast cancer [letter; comment] Mokbel K. **Br J Surg** 1996 Sep;83(9):1303-4. Comment on: Br J Surg 1996 Mar;83(3):313-20.

Extending the role of breast-conserving surgery by immediate volume replacement [see comments] Raja MA, et al. **Br J Surg** 1997 Jan;84(1):101-5. Comment in: Br J Surg 1997 Jul;84(7):1028. Comment in: Br J Surg 1997 Jul;84(7):1029.

Conservative surgery for infiltrating lobular breast carcinoma. Salvadori B, et al. **Br J Surg** 1997 Jan; 84(1):106-9

Breast conserving surgery for invasive breast cancer: risk factors for ipsilateral breast tumor recurrences. Dalberg K, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):73-86

Time distribution of the recurrence risk for breast cancer patients undergoing mastectomy: further support about the concept of tumor dormancy. Demicheli R, et al. **Breast Cancer Res Treat** 1996;41(2):177-85

Urinary steroids at time of surgery in postmenopausal women with breast cancer. Juricskay S, et al. **Breast Cancer Res Treat** 1997 May;44(1):83-9

Breast conserving therapy in stage I & II breast cancer in Korea. Lee HD, et al. **Breast Cancer Res Treat** 1997 Jul; 44(3):193-9

Intraoperative assessment of axillary lymph node metastases in operable breast cancer. Noguchi M, et al. **Breast Cancer Res Treat** 1996;40(2):179-85

A retrospective comparison of detection and treatment of breast cancer in young and elderly patients. Repetto L, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):27-31

Paravertebral block for breast cancer surgery. Greengrass R, et al. **Can J Anaesth** 1996 Aug;43(8):858-61

Variations in breast conservation surgery for women with axillary lymph node negative breast cancer in British Columbia. Hislop TG, et al. **Can J Public Health** 1996 Nov-Dec;87(6):390-4

Radical choices in mastectomy [letter; comment] Leask DE. **Can Med Assoc J** 1997 Apr 15;156(8):1119, 1121. Comment on: Can Med Assoc J 1997 Jan 1;156(1):43-5.

A surgical subculture. The use of mastectomy to treat breast cancer [editorial; comment] [see comments] Starreveld A. **Can Med Assoc J** 1997 Jan 1;156(1):43-5. Comment on: Can Med Assoc J 1997 Jan 1;156(1):25-35. Comment in: Can Med Assoc J 1997 Apr 15;156(8):1119, 1121. Comment in: Can Med Assoc J 1997 May 15;156(10):1379-80. Comment in: CMAJ 1997 Aug 1;157(3):251-3.

Chest wall resection in the treatment of locally recurrent breast carcinoma: indications and outcome for 44 patients. Faneyte IF, et al. **Cancer** 1997 Sep 1;80(5):886-91

Breast-conserving therapy for stage I-II synchronous bilateral breast carcinoma. Gollamudi SV, et al. **Cancer** 1997 Apr 1;79(7):1362-9

Breast preservation in stage I and II carcinoma of the breast. The University of Chicago experience. Heimann R, et al. **Cancer** 1996 Oct 15;78(8):1722-30

Recurrent mammary carcinoma after local excision. A segmental problem [see comments] Johnson JE, et al. **Cancer** 1995 Apr 1;75(7):1612-8. Comment in: Cancer 1996 Apr 1;75(7):1563-5; discussion 1566-7.

"One to three" or "four or more"? Selecting patients for postmastectomy radiation therapy [letter] Korzeniowski S. **Cancer** 1997 Oct 1;80(7):1357-8

The influence of black race and socioeconomic status on the use of breast-conserving surgery for Medicare beneficiaries. Michalski TA, et al. **Cancer** 1997 Jan 15; 79(2):314-9

Relationship of tumor grade to other pathologic features and to treatment outcome of patients with early stage breast carcinoma treated with breast-conserving therapy. Nixon AJ, et al. **Cancer** 1996 Oct 1;78(7):1426-31

Strategies for breast-conserving surgery. An unresolved dilemma [editorial; comment] Osteen RT. **Cancer** 1995 Apr 1;75(7):1563-5; discussion 1566-7. Comment on: Cancer 1995 Apr 1;75(7):1612-8.

The impact of age, marital status, and physician-patient interactions on the care of older women with breast carcinoma. Silliman RA, et al. **Cancer** 1997 Oct 1; 80(7):1326-34

The National Cancer Data Base report on the results of a large nonrandomized comparison of breast preservation and modified radical mastectomy. Winchester DJ, et al. **Cancer** 1997 Jul 1;80(1):162-7

Menstrual phase and breast cancer surgery: influence on clinical outcome or pitfall of statistical analysis? Tempfer C, et al. **Cancer Lett** 1996 Dec 20;110(1-2):145-8

Follow-up of women treated for breast cancer. Snee M. **Clin Oncol (R Coll Radiol)** 1996;8(2):85-9 (27 ref.)

Neoadjuvant progesterone therapy for primary breast cancer: rationale for a clinical trial. Jatoi I. **Clin Ther** 1997 Jan-Feb; 19(1):56-61; discussion 2-3

Trends in breast-conserving surgery in Connecticut: no effect of negative publicity. Polednak AP. **Conn Med** 1996 Sep; 60(9):527-30

Surgery for early and minimally invasive breast cancer. Graves TA, et al. **Curr Opin Oncol** 1996 Nov;8(6):468-77 (43 ref.)

Adjuvant therapy in breast cancer. Optimal use in the elderly. Plowman PN. **Drugs Aging** 1996 Sep;9(3):185-90 (20 ref.)

Influence of Ukrain on patients with surgically treated breast cancer. Part I. Clinical and laboratory parameters. Uglyanica KN, et al. **Drugs Exp Clin Res** 1996; 22(3-5):135-8

Influence of Ukrain on patients with surgically treated breast cancer (introductory remarks). Uglyanica KN, et al. **Drugs Exp Clin Res** 1996;22(3-5):123-5

Comparison of the surgical procedures for breast conserving treatment of early breast cancer in seven EORTC centres. Christiaens MR, et al. **Eur J Cancer** 1996 Oct; 32A(11):1866-75

Arm morbidity after sector resection and axillary dissection with or without postoperative radiotherapy in breast cancer stage I. Results from a randomised trial. Uppsala-Orebro Breast Cancer Study Group. Liljegren G, et al. **Eur J Cancer** 1997 Feb;33(2):193-9

Breast preservation versus mastectomy--recurrence and survival rates of primary breast cancer patients treated at the UFK Bonn. Schmolling J, et al. **Eur J Gynaecol Oncol** 1997;18(1):29-33

Psychosocial profile of women seeking breast reconstruction. Charavel M, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jul;74(1):31-5

Subcutaneous basal cell epithelioma presenting as a breast lump: an unusual and perplexing lesion. Sheen-Chen SM, et al. **Eur J Surg** 1996 May;162(5):425-7

Effect of a breast saving procedure on lactation. Wobbes T. **Eur J Surg** 1996 May;162(5):419-20

Principles and guidelines for surgeons--management of symptomatic breast cancer. European Society of Surgical Oncology. Blichert-Toft M, et al. **Eur J Surg Oncol** 1997 Apr;23(2):101-9 (45 ref.)

Axillary node clearance: who wants to immobilize the shoulder? Browse DJ, et al. **Eur J Surg Oncol** 1996 Dec; 22(6):569-70

Surgical complications related to peri-operative adjuvant chemotherapy in breast cancer. Results of a prospective, controlled, randomized clinical trial. Canavese G, et al. **Eur J Surg Oncol** 1997 Feb;23(1):10-2

Wire-directed localization biopsy of the breast: an audit of results and analysis of factors influencing therapeutic value in the treatment of breast cancer. Chadwick DR, et al. **Eur J Surg Oncol** 1997 Apr;23(2):128-33

Loco-regional recurrence following mastectomy for early breast carcinoma: efficacy of radiotherapy at the time of recurrence. Chaudary MA, et al. **Eur J Surg Oncol** 1997 Aug;23(4):348-53

Subcutaneous mastectomy for primary breast cancer and ductal carcinoma in situ. Cheung KL, et al. **Eur J Surg Oncol** 1997 Aug;23(4):343-7

Factors affecting surgical margin clearance in screen-detected breast cancer and the effect of cavity biopsies on residual disease. Chinyama CN, et al. **Eur J Surg Oncol** 1997 Apr;23(2):123-7

The pedicled omentoplasty and split skin graft (POSSG) for reconstruction of large chest wall defects. A validity study of 34 patients. Contant CM, et al. **Eur J Surg Oncol** 1996 Oct;22(5):532-7

Short stay surgery for breast cancer: an audit of an experience in a regional cancer centre in northern India. Deo SV, et al. **Eur J Surg Oncol** 1997 Aug;23(4):335-8

Argon-enhanced cutting and coagulation confers advantages over conventional electrocautery for mastectomy. Kerin MJ, et al. **Eur J Surg Oncol** 1996 Dec;22(6):571-3

Laparoscopic oophorectomy: a prospective evaluation in pre-menopausal breast cancer with particular reference to incidence and severity of menopausal symptoms. O'Boyle CJ, et al. **Eur J Surg Oncol** 1996 Oct;22(5):491-3

A comparative study of post-operative psychosocial function in women with primary operable breast cancer randomized to breast conservation therapy or mastectomy. Poulsen B, et al. **Eur J Surg Oncol** 1997 Aug;23(4):327-34

Changing attitudes towards breast-conserving treatment of early breast cancer in the south-eastern Netherlands: results of a survey among surgeons and a registry-based analysis of patterns of care. Voogd AC, et al. **Eur J Surg Oncol** 1997 Apr;23(2):134-8

Lack of the relationship between menstrual status and timing of surgery in survival of premenopausal patients with breast cancer. Tsuchiya A, et al. **Fukushima J Med Sci** 1996 Dec; 42(1-2):11-6

Metastatic breast carcinoma to the abdomen and pelvis. Abu-Rustum NR, et al. **Gynecol Oncol** 1997 Jul;66(1):41-4

Is axillary lymph node dissection necessary in routine management of breast cancer? No. Cady B. **Important Adv Oncol** 1996;:251-65 (119 ref.)

Is axillary lymph node dissection necessary in the routine management of breast cancer? Yes. Moore MP, et al. **Important Adv Oncol** 1996;:245-50 (53 ref.)

Vascular endothelial growth factor (VEGF) in human breast cancer: correlation with disease-free survival. Obermair A, et al. **Int J Cancer** 1997 Aug 22;74(4):455-8

Trends in primary surgical and radiation therapy for localized breast cancer in the Detroit Metropolitan area 1973-1992. Chuba PJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):103-7

Long-term follow-up of axillary node-positive breast cancer patients receiving adjuvant systemic therapy alone: patterns of recurrence. Fisher BJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):541-50

Results of conservative surgery and radiation for mammographically detected ductal carcinoma in situ (DCIS). Fowble B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):949-57

Early-stage bilateral breast cancer treated with breast-conserving surgery and definitive irradiation: the University of Pennsylvania experience. Fung MC, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):959-67

Regarding Fein et al. IJROBP 34(5):1009-1017; 1996 [letter; comment] Givens SS. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):525-6. Comment on: Int J Radiat Oncol Biol Phys 1996 Mar 15;34(5):1009-17.

Clinical and histologic determinations of adequate breast resection in breast-conserving surgery. A review. Noguchi M, et al. **Int Surg** 1996 Jul-Sep;81(3):309-15 (80 ref.)

Underutilization of breast-conservation surgery with radiation therapy for women with stage Tis, I or II breast cancer. Patton ML, et al. **Int Surg** 1996 Oct-Dec; 81(4):423-7

Irish guidelines for surgeons in the management of breast cancer. Irish Society of Surgical Oncology. McDermott EW. **Ir Med J** 1997 Jan-Feb;90(1):6-8, 10

Perioperative stimulation of residual cancer cells promotes local and distant recurrence of breast cancer. Reid SE, et al. **J Am Coll Surg** 1997 Sep;185(3):290-306 (143 ref.)

Axillary lymph node metastasis in carcinoma of the breast [letter; comment] Shetty MR. **J Am Coll Surg** 1997 Jun; 184(6):671-3. Comment on: J Am Coll Surg 1996 Dec;183(6):575-82.

Factors associated with clear biopsy margins and clear reexcision margins in breast cancer specimens from candidates for breast conservation. Tartter PI, et al. **J Am Coll Surg** 1997 Sep;185(3):268-73

Therapeutic options and results for the management of minimally invasive carcinoma of the breast: influence of axillary dissection for treatment of T1a and T1b lesions [see comments] White RE, et al. **J Am Coll Surg** 1996 Dec; 183(6):575-82. Comment in: J Am Coll Surg 1997 Jun;184(6):671-3.

Relation of cognitive coping and catastrophizing to acute pain and analgesic use following breast cancer surgery.

Jacobsen PB, et al. **J Behav Med** 1996 Feb;19(1):17-29

Influence of patient characteristics, socioeconomic factors, geography, and systemic risk on the use of breast-sparing treatment in women enrolled in adjuvant breast cancer studies: an analysis of two intergroup trials. Albain KS, et al. **J Clin Oncol** 1996 Nov;14(11):3009-17

Prospective randomized studies are needed to define the role of axillary lymph node dissection in primary breast cancer [letter; comment] Costa SD, et al. **J Clin Oncol** 1997 Aug; 15(8):3023-4. Comment on: J Clin Oncol 1997 Feb;15(2):691-700.

Reappraisal of the role of axillary lymph node dissection in the conservative treatment of breast cancer [see comments] Haffty BG, et al. **J Clin Oncol** 1997 Feb;15(2):691-700. Comment in: J Clin Oncol 1997 Jun;15(6):2476-7. Comment in: J Clin Oncol 1997 Aug;15(8):3023-4.

Patient preferences concerning the trade-off between the risks and benefits of routine radiation therapy after conservative surgery for early-stage breast cancer. Hayman JA, et al. **J Clin Oncol** 1997 Mar;15(3):1252-60

Changing paradigms in the management of breast cancer [letter; comment] Lee RJ. **J Clin Oncol** 1997 Jun; 15(6):2476-7. Comment on: J Clin Oncol 1997 Feb;15(2):681-700.

Preoperative chemotherapy and breast-conserving therapy: why not everyone? [editorial; comment] Recht A. **J Clin Oncol** 1997 Jul;15(7):2479-82. Comment on: J Clin Oncol 1997 Jul;15(7):2483-93.

Doctors strive to minimize DCIS treatment [news] Blume E. **J Natl Cancer Inst** 1997 Aug 6;89(15):1092-5

Relationship between the size and margin status of ductal carcinoma in situ of the breast and residual disease [see comments] Cheng L, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1356-60. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1330-1.

Micrometastatic breast cancer cells in bone marrow at primary surgery: prognostic value in comparison with nodal status. Diel IJ, et al. **J Natl Cancer Inst** 1996 Nov 20;88(22):1652-8

Prophylactic cancer surgeries offer no guarantees, uncertain outcomes [news] Holzman D. **J Natl Cancer Inst** 1996 Oct 16;88(20):1428-9

Studies show prophylactic surgeries seem to reduce cancer risk [news] Nelson NJ. **J Natl Cancer Inst** 1997 Jun 4; 89(11):762-3

Does the timing of breast cancer surgery affect survival? [news] Randal J. **J Natl Cancer Inst** 1997 Apr 2;89(7):473-7

3-D histo-radiographic comparison of surgical clearances of microcalcified lesions in breast localization biopsies. Davies JD, et al. **J Pathol** 1997 May;182(1):45-53

Conservation breast therapy at Roper Hospital: the early experience [see comments] Fitzgerald RH Jr, et al. **J S C Med Assoc** 1996 Nov;92(11):455-7. Comment in: J S C Med Assoc 1996 Nov;92(11):473-4.

Breast-sparing techniques--where are we going? [editorial; comment] Greene FL. **J S C Med Assoc** 1996 Nov; 92(11):473-4. Comment on: J S C Med Assoc 1996 Nov;92(11):455-7.

Seroma formation following axillary dissection for breast cancer: risk factors and lack of influence of bovine thrombin. Burak WE Jr, et al. **J Surg Oncol** 1997 Jan; 64(1):27-31

Case against axillary lymphadenectomy for most patients with infiltrating breast cancer [editorial] Cady B. **J Surg Oncol** 1997 Sep;66(1):7-10 (34 ref.)

Wide margin resection and brachytherapy for post-irradiation breast cancer recurrence. Chow LW, et al. **J Surg Oncol** 1997 May;65(1):55-6

Breast cancer: a different cancer? [editorial] Gardner B. **J Surg Oncol** 1996 Nov;63(3):139-40

Axillary lymphadenectomy: a diagnostic and therapeutic procedure [editorial] Moore MP, et al. **J Surg Oncol** 1997 Sep;66(1):2-6 (42 ref.)

Local resection and brachytherapy confined to the lumpectomy site for early breast cancer: a pilot study. Perera F, et al. **J Surg Oncol** 1997 Aug;65(4):263-7; discussion 267-8 (7 ref.)

Outcome of surgical resection for chest wall recurrence in breast cancer patients. Toi M, et al. **J Surg Oncol** 1997 Jan;64(1):23-6

Chronic arm edema following breast cancer treatment. Stanton AW, et al. **Kidney Int Suppl** 1997 Jun;59:S76-81 (34 ref.)

Patient participation in deciding breast cancer treatment and subsequent quality of life [see comments] Street RL Jr, et al. **Med Decis Making** 1997 Jul-Sep;17(3):298-306. Comment in: Med Decis Making 1997 Jul-Sep;17(3):353-4.

The efficacy of surgical treatment of breast cancer. Benjamin DJ. **Med Hypotheses** 1996 Nov;47(5):389-97

"Best practice" in surgical management of breast cancer [editorial; comment] Collins JP. **Med J Aust** 1997 Jun 16; 166(12):620-1. Comment on: Med J Aust 1997 Jun 16;166(12):626-9.

Surgical management of breast cancer in Australian women in 1993: analysis of Medicare statistics [see comments] Craft PS, et al. **Med J Aust** 1997 Jun 16;166(12):626-9. Comment in: Med J Aust 1997 Jun 16;166(12):620-1.

Recommendations for the reporting of breast carcinoma. Association of Directors of Anatomic and Surgical Pathology. **Mod Pathol** 1996 Jan;9(1):77-81

A neuromyotonic process in a transposed latissimus dorsi muscle stemming from radiotherapy and peripheral surgery. Samuel M, et al. **Mov Disord** 1996 Jul;11(4):449-51

Breast cancer surgery in New Zealand: consensus or variation? Morris J, et al. **N Z Med J** 1997 Feb 28; 110(1038):53-6

Treatment options in surgical management of breast cancer. Edney JA. **Nebr Med J** 1996 Mar;81(3):51-7 (22 ref.)

Timing of breast cancer surgery during the luteal menstrual phase may improve prognosis. Lemon HM, et al. **Nebr Med J** 1996 Mar;81(3):73-8

Patient satisfaction with 23-hour "short-stay" observation following breast cancer surgery. Burke CC, et al. **Oncol Nurs Forum** 1997 May;24(4):645-51

Women's experiences of lymphedema. Carter BJ. **Oncol Nurs Forum** 1997 Jun;24(5):875-82

Lumpectomy with and without radiation for early-stage breast cancer and DCIS. Marks LB, et al. **Oncology (Huntingt)** 1997 Sep;11(9):1361-8, 1371; discussion 1372, 1374 (68 ref.)

Breast cancer surgical practice guidelines. Society of surgical oncology practice guidelines: breast cancer. Morrow M, et al. **Oncology (Huntingt)** 1997 Jun;11(6):877-81, 885-6

Effect of present pain and mood on the memory of past postoperative pain in women treated surgically for breast cancer. Tasmuth T, et al. **Pain** 1996 Dec;68(2-3):343-7

Breast cancer patients: long-term relapses. Basso Ricci S, et al. **Panminerva Med** 1996 Jun;38(2):106-10

Preservation of the inframammary fold: a plea for close follow-up [letter; comment] Cederna JP. **Plast Reconstr Surg** 1997 Jun;99(7):2114-5. Comment on: Plast Reconstr Surg 1996 Sep;98(3):447-50.

Mammographic evaluation of the postsurgical and irradiated breast. Briggs J. **Radiol Technol** 1997 Mar-Apr; 68(4):287-304; quiz 305-8 (22 ref.)

Management of microcalcifications that develop at the lumpectomy site after breast-conserving therapy. Vora SA, et al. **Radiology** 1997 Jun;203(3):667-71

CT planning of boost irradiation in radiotherapy of breast cancer after conservative surgery. Messer PM, et al. **Radiother Oncol** 1997 Mar;42(3):239-43

Effect of acetylsalicylic acid on radiation and cosmetic results after conservative surgery for early breast cancer: a randomized trial. Olivotto IA, et al. **Radiother Oncol** 1996 Oct;41(1):1-6

Mastectomy with axillary clearance versus mastectomy without it [letter; comment] Kessel I. **S Afr Med J** 1996 Sep;86(9):1134, 1136. Comment on: S Afr Med J 1996 Jun;86(6):670-1.

Complete reduction of lymphoedema of the arm by liposuction after breast cancer. Brorson H, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):137-43

Influence of the site of skin incision on the circulation in the nipple-areola complex after subcutaneous mastectomy in breast cancer. Proano E, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):195-200

Primary chemotherapy in operable breast cancer. Bonadonna G, et al. **Semin Oncol** 1996 Aug;23(4):464-74 (36 ref.)

Adjuvant drug therapy for operable breast cancer. Hudis CA, et al. **Semin Oncol** 1996 Aug;23(4):475-93 (99 ref.)

Does lymph node dissection still have a role in cancer therapy? Sorensen SC, et al. **Semin Oncol** 1997 Jun; 24(3):xxxiii-xxxiv, xxxix, xli-xlii, xlv

Breast conservation: predictors and treatment of local recurrence. Bethke KP. **Semin Surg Oncol** 1996 Sep-Oct; 12(5):332-8 (36 ref.)

Is it time to develop an optimal endocrine therapy for premenopausal patients with axillary node positive and negative breast cancer? Bilimoria MM, et al. **Semin Surg Oncol** 1996 Sep-Oct;12(5):339-45 (44 ref.)

Future prospects for reconstructive surgery in breast cancer. Gabka CJ, et al. **Semin Surg Oncol** 1996 Jan-Feb; 12(1):67-75 (24 ref.)

Future prospects in limited surgery for early breast cancer. Gazet JC. **Semin Surg Oncol** 1996 Jan-Feb;12(1):39-45 (22 ref.)

Lobular carcinoma in situ of the breast. Goldschmidt RA, et al. **Semin Surg Oncol** 1996 Sep-Oct;12(5):314-20 (39 ref.)

Inflammatory breast cancer: the evolution of multimodality treatment strategies. Gradishar WJ. **Semin Surg Oncol** 1996 Sep-Oct;12(5):352-63 (103 ref.)

Definitive breast cancer surgery as an outpatient: a rational basis for the transition. Hoehn JL. **Semin Surg Oncol** 1996 Jan-Feb;12(1):53-8 (14 ref.)

Axillary dissection: when and how radical? Morrow M. **Semin Surg Oncol** 1996 Sep-Oct;12(5):321-7 (51 ref.)

Local recurrences after breast-conserving treatment: an open problem. Salvadori B. **Semin Surg Oncol** 1996 Jan-Feb; 12(1):46-52 (45 ref.)

Breast cancer in older women: screening and selection of locoregional therapy. Sener SF. **Semin Surg Oncol** 1996 Sep-Oct;12(5):328-31 (24 ref.)

Management of ductal carcinoma in situ. Talamonti MS. **Semin Surg Oncol** 1996 Sep-Oct;12(5):300-13 (62 ref.)

Correlation of menstrual cycle at time of breast cancer surgery to disease-free and overall survival. Vanek VW, et al. **South Med J** 1997 Aug;90(8):780-8

Long-term results of breast cancer patients treated by conservative surgery and radiotherapy. Levitt SH. **Strahlenther Onkol** 1996 Nov;172(11):631-2

Living with mastectomy and breast conservation treatment: who suffers more? Gilbar O, et al. **Support Care Cancer** 1997 Jul;5(4):322-6

Relationship between quality of life and mood in long-term survivors of breast cancer treated with mastectomy. Weitzner MA, et al. **Support Care Cancer** 1997 May; 5(3):241-8

Prophylactic laparoscopic ovarian ablation for premenopausal breast cancer: medical and economic efficacy. Kwon AH, et al. **Surg Laparosc Endosc** 1997 Jun; 7(3):223-7

Alternative multivariate modelling for time to local recurrence for breast cancer patients receiving a lumpectomy alone. Chapman JW, et al. **Surg Oncol** 1996 Oct-Dec;5(5-6):265-71

Axillary lymphadenectomy--just how radical should it be? Rageth JC, et al. **Surg Oncol** 1996 Feb;5(1):37-41

How to perform adequate local excision of mammographically detected lesions. Cady B. **Surg Oncol Clin N Am** 1997 Apr;6(2):315-34

Role of axillary dissection in mammographically detected breast cancer. Jamali FR, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):343-58 (85 ref.)

Ductal carcinoma in situ. The success of breast conservation therapy: a shared experience of two single institutional nonrandomized prospective studies. Lagios MD, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):385-92

The role of radiation therapy after local excision of invasive and noninvasive breast cancer. Marks LB, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):359-79 (86 ref.)

Frozen-section-guided breast-conserving surgery: implications of diagnosis by frozen section as a guide to determining the extent of resection. Ikeda T, et al. **Surg Today** 1997;27(3):207-12

Myofibroblastoma of the breast: report of a case. Kobayashi N, et al. **Surg Today** 1996;26(9):727-9

Benign schwannoma of the breast: report of a case. Tokita K, et al. **Surg Today** 1996;26(6):449-52

Second ipsilateral breast cancer after modified radical mastectomy: a case report and review of the literature. Miller LA, et al. **Surgery** 1997 Jan;121(1):109-11 (5 ref.)

Improving residents' clinical skills with the structured clinical instruction module for breast cancer: results of a multiinstitutional study. Breast Cancer Education Working Group. Sloan DA, et al. **Surgery** 1997 Aug;122(2):324-33; discussion 333-4

Long-term sequelae of breast cancer surgery. Paci E, et al. **Tumori** 1996 Jul-Aug;82(4):321-4

Skin-sparing mastectomy with immediate tissue reconstruction. Rand RP, et al. **West J Med** 1996 Feb; 164(2):166

[Mammaplasty immediately after mastectomy for breast cancer] Shi S, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):253-4 (Eng. Abstr.) **(Chi)**

[Conservative surgery and radiation therapy in the treatment of operable breast cancer] Sun M, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):606-8 (Eng. Abstr.) **(Chi)**

[Enzyme therapy in the treatment of lymphedema in the arm after breast carcinoma surgery] Adámek J, et al. **Rozhl Chir** 1997 Apr;76(4):203-4 (Eng. Abstr.) **(Cze)**

[Counting of axillary lymph nodes during surgery of breast cancer. A comparison between radiographic examination and pathological assessment] Bak AM, et al. **Ugeskr Laeger** 1997 Apr 7;159(15):2225-7 (Eng. Abstr.) **(Dan)**

[Value of reduction mammoplasty in the conservative treatment of breast neoplasms. Apropos of 70 cases] Cothier-Savey I, et al. **Ann Chir Plast Esthet** 1996 Aug; 41(4):346-53 (Eng. Abstr.) **(Fre)**

[Axillary lymphadenectomy prepared by fat aspiration versus functional axillary lymphadenectomy: preliminary results of a randomized prospective study] Giard S, et al. **Bull Cancer** 1997 Mar;84(3):254-8 (Eng. Abstr.) **(Fre)**

[Axillary lymph node dissection in clinically occult breast cancer] Le Bouëdec G, et al. **Bull Cancer** 1996 Jul; 83(7):581-8 (50 ref.) (Eng. Abstr.) **(Fre)**

[Axillary lymphadenectomy by lipo-aspiration and endoscopic picking. Apropos of 72 cases] Suzanne F, et al. **Chirurgie** 1997;122(2):138-42; discussion 142-3 (Eng. Abstr.) **(Fre)**

[Axillary node removal prepared by liposuction and assisted by endoscopy in the surgical treatment of breast cancers] Brun JL, et al. **Contracept Fertil Sex** 1997 Mar; 25(3):XIV-XVIII (9 ref.) **(Fre)**

[Axillary lymphoceles after breast cancer surgery. Pathogeny, prevention] Rauch P, et al. **J Chir (Paris)** 1996; 133(9-10):448-52 (Eng. Abstr.) **(Fre)**

[Respective role of conservative and radical treatment of breast cancers] Body G, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(4):350-6 (36 ref.) **(Fre)**

[Indications for castration in women treated for breast cancer] Chapet S, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996; 25(5):445-50 (44 ref.) (Eng. Abstr.) **(Fre)**

[Mastectomy with immediate reconstruction for invasive breast cancer. Comments on indications and technique. A series of 112 cases] Dauplat J, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):17-26 (Eng. Abstr.) **(Fre)**

[Phyllodes tumors of the breast. Forty one cases] Matar N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):32-6 (33 ref.) (Eng. Abstr.) **(Fre)**

[Breast cancers with central localization: conservative treatment by tumorectomy with ablation of the areolar plaque] Multon O, et al. **Presse Med** 1997 Jun 21; 26(21):988–94 (Eng. Abstr.) **(Fre)**

[Role of hormone substitution treatment following breast cancer] Colin C. **Rev Med Liege** 1996 Oct;51(10):633–4 **(Fre)**

["Supraconservative" surgery of infraclinical breast lesions] Lifrange E, et al. **Rev Med Liege** 1997 Feb;52(2):72–6 **(Fre)**

[Support in the after care of patients operated for breast cancer] Maertens de Noordhout A. **Rev Med Liege** 1997 Feb;52(2):79–82 **(Fre)**

[Basic principles and value of lymphadenectomy in breast carcinoma] Schildberg FW, et al. **Chirurg** 1996 Aug; 67(8):771–8 (38 ref.) (Eng. Abstr.) **(Ger)**

[Angiosarcoma of the breast after conservatively operated breast carcinoma—a sequela of adjuvant radiotherapy?] Aydogdu M, et al. **Geburtshilfe Frauenheilkd** 1996 Jan; 56(1):60–2 (Eng. Abstr.) **(Ger)**

[Carcinoma in situ of the breast—is axillary lymphadenectomy necessary?] Dimpfl Th, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):18–22 (Eng. Abstr.) **(Ger)**

[Immediate reconstruction of the breast with the free, microvascular "TRAM" flap] Gabka CJ, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:101–4 (Eng. Abstr.) **(Ger)**

[Manifestation, therapy and follow-up of locoregional breast carcinoma recurrence] Menke H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:108–10 (Eng. Abstr.) **(Ger)**

[Is breast saving therapy of breast carcinoma without postoperative radiotherapy justified?] Schön M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:105–7 (Eng. Abstr.) **(Ger)**

[Surgery of breast carcinoma in the elderly woman] Winzer KJ, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:480–2 (Eng. Abstr.) **(Ger)**

[Standardized pathologic examination of breast excision specimen. Relevance within an interdisciplinary practice protocol for quality management of breast saving therapy] Decker T, et al. **Pathologe** 1997 Jan;18(1):53–9 (Eng. Abstr.) **(Ger)**

[Breast reconstruction] Frey M. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1149–51 (Eng. Abstr.) **(Ger)**

[Partial median sternotomy in resection of metastases of the upper thoracic spine] Prokop A, et al. **Unfallchirurg** 1996 Dec;99(12):986–8 (Eng. Abstr.) **(Ger)**

[Spinal stabilization in extradural metastatic disease. Indications and follow-up of 32 cases] Seiler H, et al. **Unfallchirurg** 1997 Apr;100(4):294–300 (Eng. Abstr.) **(Ger)**

[Breast preserving therapy of breast carcinoma: analysis of over 1,300 patients treated in the Basel region] Laffer U, et al. **Zentralbl Chir** 1997;122(2):79–85 (Eng. Abstr.) **(Ger)**

[Changes in radical surgery of breast carcinoma in the last 20 years] Mättig H, et al. **Zentralbl Chir** 1997;122(2):92–6 (Eng. Abstr.) **(Ger)**

[Subcutaneous mastectomy] Olbrisch RR. **Zentralbl Chir** 1997;122(2):86–90; discussion 90–1 (5 ref.) (Eng. Abstr.) **(Ger)**

[Current surgical therapy of breast carcinoma and subsequent requirements for histopathologic diagnosis] Schönfelder M. **Zentralbl Chir** 1997;122(2):74–8 (17 ref.) (Eng. Abstr.) **(Ger)**

[Tumor-adapted oncoplastic mastopexy and reduction-plasty] Hüter J. **Zentralbl Gynakol** 1996; 118(10):549–52 (Eng. Abstr.) **(Ger)**

[Development of breast surgery including plastic-reconstructive surgery results of the Universitätsfrauenklinik Leipzig] Köhler U, et al. **Zentralbl Gynakol** 1997;119 Suppl 1:3–7 (Eng. Abstr.) **(Ger)**

[Experience in the treatment of breast sarcomas] Farkas E, et al. **Orv Hetil** 1997 Jan 26;138(4):195–8 (Eng. Abstr.) **(Hun)**

[Radiotherapy in the treatment of operable breast cancer] Fodor J. **Orv Hetil** 1996 Jun 16;137(24):1303–7 (Eng. Abstr.) **(Hun)**

[Recent changes in breast cancer surgery] Kisida E. **Orv Hetil** 1996 May 26;137(21):1123–6 (26 ref.) (Eng. Abstr.) **(Hun)**

[Natural history of breast cancer: lobular carcinoma versus ductal carcinoma in our experience] Casolo P, et al. **Ann Ital Chir** 1997 Jan–Feb;68(1):43–7; discussion 48 (Eng. Abstr.) **(Ita)**

[Our experience in the surgical treatment of early breast cancer. Results of a prospective study of 204 cases] Casolo P, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):195–204; discussion 204–5 (Eng. Abstr.) **(Ita)**

[Phyllodes tumor of the breast: diagnostic and therapeutic problems] Gangi S, et al. **Ann Ital Chir** 1996 Mar–Apr; 67(2):219–23 (Eng. Abstr.) **(Ita)**

[Role of axillary dissection in breast carcinoma] Cataliotti L, et al. **Chir Ital** 1995;47(4):23–31 (Eng. Abstr.) **(Ita)**

[Surgery of the breast: 100 years after Halsted] Veronesi U, et al. **Chir Ital** 1995;47(4):1–4 (Eng. Abstr.) **(Ita)**

[Lacking effect of timing of surgery in relation to the menstrual cycle on prognosis of breast cancer in premenopausal women] Mondini G, et al. **G Chir** 1997 Jan–Feb;18(1–2):7–11 (Eng. Abstr.) **(Ita)**

[Surgical therapy of breast carcinoma (editorial)] Natale C. **G Chir** 1997 May;18(5):257–62 **(Ita)**

[The surgery of breast carcinoma. 10 years of activity] Badellino F, et al. **Minerva Chir** 1997 May;52(5):531–48 (Eng. Abstr.) **(Ita)**

[Impact of a screening program on the surgical treatment of breast carcinoma] Braga M, et al. **Minerva Chir** 1996 Dec;51(12):1095–106 (Eng. Abstr.) **(Ita)**

[The surgical treatment of the thoracic recurrences of operated breast cancer] Elia S. **Minerva Chir** 1997 Apr; 52(4):397–401 (Eng. Abstr.) **(Ita)**

[Evolution of surgery in the treatment of breast tumors (editorial)] Frasson P, et al. **Minerva Chir** 1997 Jun; 52(6):691–5 **(Ita)**

[Nipple discharge: indications for surgery] Gioffrè Florio MA, et al. **Minerva Chir** 1996 Sep;51(9):697–700 (Eng. Abstr.) **(Ita)**

[Hysteroscopic evaluation of the endometrium in 63 postmenopausal patients treated with tamoxifen for breast cancer] Baldini B, et al. **Minerva Ginecol** 1996 Jun; 48(6):259–62 (Eng. Abstr.) **(Ita)**

[Immediate reconstruction of the nipple using a portion of the areola following quadrantectomy including the nipple-areola complex] Pricolo R. **Minerva Ginecol** 1995 Nov;47(11):515–7 (Eng. Abstr.) **(Ita)**

[Pulmonary metastasis from breast cancer: a case report with 19-year disease-free interval] Kamiyoshihara M, et al. **Kyobu Geka** 1997 Mar;50(3):194–6 (12 ref.) (Eng. Abstr.) **(Jpn)**

[1000 quadrantectomies—personal experience] Jeziorski A, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):229–31 (Eng. Abstr.) **(Pol)**

[Subtotal radical resection and primary reconstruction in breast cancer] Demidov VP, et al. **Khirurgiia (Mosk)** 1997; (3):11–4 (Eng. Abstr.) **(Rus)**

[Problems of organ-preserving treatment of breast cancer (lecture)] Kharchenko VP, et al. **Khirurgiia (Mosk)** 1997; (4):8–14 (27 ref.) **(Rus)**

THERAPY

Report of the Department of Defense, National Cancer Institute, Department of Health and Human Services Office of Women's Health workshop on the mobile breast care center. Hillman BJ. **Acad Radiol** 1997 Jun;4(6):451–7

Breast-conserving surgery and adjuvant chemotherapy in pregnancy. Inbar MJ, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):765–7

Diet and the prevention and treatment of breast cancer [see comments] Nicholson A. **Altern Ther Health Med** 1996 Nov;2(6):32–8 (80 ref.). Comment in: Altern Ther Health Med 1997 Mar;3(2):16, 18.

Standard-dose recombinant human granulocyte colony-stimulating factor (rhG-CSF) allows safe and repeated administration of high-dose cyclophosphamide, etoposide, and cisplatin (CEP). Ballestrero A, et al. **Am J Clin Oncol** 1997 Jun;20(3):266–71

Should soybean agglutinin purging be performed in breast cancer patients undergoing autologous stem cell transplantation? A retrospective analysis of 48 patients. Ben-Yosef R, et al. **Am J Clin Oncol** 1997 Aug;20(4):419–23

Conservative therapy of breast cancer. The Mayo Clinic experience. Halyard MY, et al. **Am J Clin Oncol** 1996 Oct; 19(5):445–50

Challenging denial of coverage for innovative therapy. Brushwood DB. **Am J Health Syst Pharm** 1997 Mar 1; 54(5):572–4

Recent advances in breast cancer research: from genes to management. Hendrix MJ, et al. **Am J Pathol** 1997 Sep; 151(3):883–8

A comparison outcome of male breast cancer with female breast cancer. Willsher PC, et al. **Am J Surg** 1997 Mar; 173(3):185–8

Traditional and future management of nonpalpable breast cancer. Cady B. **Am Surg** 1997 Jan;63(1):55–8 (24 ref.)

Autologous stem cell transplantation in breast cancer. Joensuu H. **Ann Med** 1996 Apr;28(2):145–9 (35 ref.)

Sexual dysfunction in treated breast cancer patients [see comments] Barni S, et al. **Ann Oncol** 1997 Feb;8(2):149–53 . Comment in: Ann Oncol 1997 Feb;8(2):105–7. Comment in: Ann Oncol 1997 Jun;8(6):616–8.

Sexual functioning after breast cancer: a conceptual framework for future studies [editorial; comment] Ganz PA. **Ann Oncol** 1997 Feb;8(2):105–7. Comment on: Ann Oncol 1997 Feb;8(2):149–53.

Radiation therapy following breast conservation surgery: can it ever be avoided? [editorial; comment] Whelan T, et al. **Ann Oncol** 1997 Mar;8(3):217–8. Comment on: Ann Oncol 1997 Mar;8(3):235–41.

Evaluation of symptom distress in a bone marrow transplant outpatient environment. Lawrence CC, et al. **Ann Pharmacother** 1996 Sep;30(9):941–5

Management of advanced breast cancer: patient needs, challenges and new treatment options. Introduction. Norton L. **Anticancer Drugs** 1996 Aug;7 Suppl 2:1–3

Higher survival of refractory metastatizing breast cancer after thermotherapy and autologous specific antitumoral immunotherapy. Pontiggia P, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3071–4

National treatment trends for ductal carcinoma in situ of the breast. Winchester DJ, et al. **Arch Surg** 1997 Jun; 132(6):660–5

GPs and breast cancer. Bollen M. **Aust Fam Physician** 1996 Nov;25(11):1665–6

Breast conservation therapy for invasive breast cancer in Hong Kong: factors affecting recurrence and survival in Chinese women. Chow LW, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):94–7

Ductal carcinoma in situ. Part 2: Treatment. Delaney G, et al. **Aust N Z J Surg** 1997 Apr;67(4):157–65 (83 ref.)

Breast cancer: current issues in diagnosis and treatment [see comments] Furnival CM. **Aust N Z J Surg** 1997 Jan; 67(1):47–58 (55 ref.). Comment in: Aust N Z J Surg 1997 Jul;67(7):476.

Patient-provider agreement on guidelines for preparation for breast cancer treatment. Schofield MJ, et al. **Behav Med** 1997 Spring;23(1):36–45

Tandem peripheral blood progenitor cell transplants as initial therapy for metastatic breast cancer. Ghalie R, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):40–6

Effect of CD34+ selection and various schedules of stem cell reinfusion and granulocyte colony-stimulating factor priming on hematopoietic recovery after high-dose chemotherapy for breast cancer. Somlo G, et al. **Blood** 1997 Mar 1;89(5):1521–8

Oestrogen receptors and breast cancer [editorial] Elledge RM, et al. **BMJ** 1997 Jun 28;314(7098):1843–4

Popularity of less frequent follow up for breast cancer in randomised study: initial findings from the hotline study. Gulliford T, et al. **BMJ** 1997 Jan 18;314(7075):174–7

Routine follow up of breast cancer in primary care. Open door and listening ear are best support for patients [letter; comment] Hall SA. **BMJ** 1996 Dec 14;313(7071):1548. Comment on: BMJ 1996 Sep 14;313(7058):665–9.

Routine follow up of breast cancer in primary care. Study of open access centre for patients with breast cancer is planned [letter; comment] Kirkbride P, et al. **BMJ** 1996 Dec 14;313(7071):1547. Comment on: BMJ 1996 Sep 14;313(7058):665–9.

Routine follow up of breast cancer in primary care. Follow up by non-specialists should not be encouraged [letter; comment] Rainsbury D. **BMJ** 1996 Dec 14;313(7071):1547 . Comment on: BMJ 1996 Sep 14;313(7058):665–9.

Treatment of breast cancer before surgery will present pathologists with challenges [letter; comment] Trott PA, et al. **BMJ** 1997 Mar 8;314(7082):755. Comment on: BMJ 1996 Nov 30;313(7069):1345–6.

Hematopoietic potential of IL-2-cultured peripheral blood stem cells from breast cancer patients. Areman EM, et al. **Bone Marrow Transplant** 1996 Sep;18(3):521–5

An acute cerebellar syndrome following high-dose chemotherapy and a blood cell autotransplant. Barnard K, et al. **Bone Marrow Transplant** 1997 Jul;20(1):87–8

High-dose busulfan, melphalan, thiotepa and peripheral blood stem cell infusion for the treatment of metastatic breast cancer. Bensinger WI, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1183–9

High-dose chemotherapy with AHPCS for the treatment of breast cancer. The University of Colorado results. Cagnoni PJ, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S26–9 (25 ref.)

Erythroid burst-forming units (BFU-E) predict hematopoietic recovery after peripheral blood progenitor cell transplantation in patients with advanced breast cancer. Cooper BW, et al. **Bone Marrow Transplant** 1997 Jun; 19(11):1089–94

High-dose busulfan and cyclophosphamide followed by autologous transplantation in patients with advanced breast cancer. Demirer T, et al. **Bone Marrow Transplant** 1996 May;17(5):769–74

A phase I trial of recombinant human interleukin-1 beta (OCT-43) following high-dose chemotherapy and autologous bone marrow transplantation. Elkordy M, et al. **Bone Marrow Transplant** 1997 Feb;19(4):315–22

High-dose therapy for the treatment of breast cancer: evaluation of effect of regimen on outcome. Fields KK, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S30–3

A novel high-dose chemotherapy protocol with autologous hematopoietic rescue in patients with metastatic breast cancer or recurrent non-Hodgkin's lymphoma. Fontelonga A, et al. **Bone Marrow Transplant** 1997 May;19(10):983–8

"Pegase" program for evaluation of autologous stem cell transplantation in breast cancer. SFGM and PEGASE Group. Gisselbrecht C, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S21–3

Cyclophosphamide/mitoxantrone/melphalan (CMA) regimen prior to autologous bone marrow transplantation (ABMT) in metastatic breast cancer. Gisselbrecht C, et al. **Bone Marrow Transplant** 1996 Nov;18(5):857–63

Quality of life following bone marrow transplantation for breast cancer: a comparative study. Hann DM, et al. **Bone Marrow Transplant** 1997 Feb;19(3):257–64

Phase II study of high-dose cyclophosphamide, etoposide, and carboplatin (CEC) followed by autologous hematopoietic stem cell rescue in women with metastatic or high-risk non-metastatic breast cancer: multivariate analysis of factors affecting survival and engraftment. Klumpp TR, et al. **Bone Marrow Transplant** 1997 Aug; 20(4):273–81

Detection of cancer cells in peripheral blood stem cells of women with breast cancer by RT-PCR and cell culture. Krüger WH, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S18–20

Increased frequency of autoaggression syndrome associated with autologous stem cell transplantation in breast cancer patients. Moreb JS, et al. **Bone Marrow Transplant** 1997 Jan;19(2):101–6

Tumor contamination in stem cell products from patients with neuroblastoma and breast cancer. Moss TJ. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S17

Ocular toxicity following high dose chemotherapy and autologous transplant. Rubin P, et al. **Bone Marrow Transplant** 1996 Jul;18(1):253–6

Tumor cell contamination of peripheral blood stem cell transplants and bone marrow in high-risk breast cancer patients. Schulze R, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1223–8

Results of a pilot study of 40 patients using high-dose therapy with hematopoietic rescue after standard-dose adjuvant therapy for high-risk breast cancer. Tomás JF, et al. **Bone Marrow Transplant** 1997 Feb;19(4):331–6

High-dose sequential chemotherapy with stem cell support for non-metastatic breast cancer. Viens P, et al. **Bone Marrow Transplant** 1997 Aug;20(3):199–203

Induction, mobilization of peripheral blood stem cells (PBSC), high-dose chemotherapy and PBSC infusion in patients with untreated stage IV breast cancer: outcomes by intent to treat analyses. Weaver CH, et al. **Bone Marrow Transplant** 1997 Apr;19(7):661–70

High dose mitoxantrone with thiotepa, cyclophosphamide and autologous stem cell rescue for high risk stage II and stage III breast cancer. German GABG-4/EH-93-Study. Zander AR, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S24–5

Breast cancer--from clinic to laboratory. Gillett CE, et al. **Br J Biomed Sci** 1997 Mar;54(1):47–56

Long-term prognostic and predictive factors in 107 stage II/III breast cancer patients treated with anthracycline-based neoadjuvant chemotherapy. Brain E, et al. **Br J Cancer** 1997;75(9):1360–7

High-dose chemotherapy supported by peripheral blood progenitor cells in poor prognosis metastatic breast cancer--phase I/II study. Edinburgh Breast Group. Cameron DA, et al. **Br J Cancer** 1996 Dec;74(12):2013–7

Cardiotoxicity from intensive chemotherapy combined with radiotherapy in breast cancer. de Graaf H, et al. **Br J Cancer** 1997;76(7):943–5

Relationship between cathepsin-D content and disease-free survival in node-negative breast cancer patients: a meta-analysis. Ferrandina G, et al. **Br J Cancer** 1997; 76(5):661–6

Breast cancer management: is volume related to quality? Clinical Advisory Panel. Ma M, et al. **Br J Cancer** 1997; 75(11):1652–9

A randomised phase II study of sialyl-Tn and DETOX-B adjuvant with or without cyclophosphamide pretreatment for the active specific immunotherapy of breast cancer. Miles DW, et al. **Br J Cancer** 1996 Oct;74(8):1292–6

The association between population-based treatment guidelines and adjuvant therapy for node-negative breast cancer. British Columbia/Ontario Working Group. Sawka C, et al. **Br J Cancer** 1997;75(10):1534–42

Prospective randomized study comparing the efficacy of bioequivalent doses of glycosylated and nonglycosylated rG-CSF for mobilizing peripheral blood progenitor cells. de Arriba F, et al. **Br J Haematol** 1997 Feb;96(2):418–20

Immunomagnetic selection of CD34+ peripheral blood stem cells for autografting in patients with breast cancer. Hohaus S, et al. **Br J Haematol** 1997 Jun;97(4):881–8

Progenitor cell yield in sequential blood stem cell mobilization in the same patients: insights into chemotherapy dose escalation and combination of haemopoietic growth factor and chemotherapy. Lie AK, et al. **Br J Haematol** 1996 Oct;95(1):39–44

Management of premenopausal women with primary breast cancer. Woodman CB, et al. **Br J Surg** 1996 Sep; 83(9):1256–7

Variations in breast cancer treatment by patient and provider characteristics. Ayanian JZ, et al. **Breast Cancer Res Treat** 1996;40(1):65–74 (33 ref.)

Guidelines for systemic therapy of early stage breast cancer [see comments] Blum JL, et al. **Breast Cancer Res Treat** 1997 May;43(3):259–76. Comment in: Breast Cancer Res Treat 1997 May;43(3):277–8.

An individual patient-based meta-analysis of tamoxifen versus ovarian ablation as first line endocrine therapy for premenopausal women with metastatic breast cancer. Crump M, et al. **Breast Cancer Res Treat** 1997 Jul; 44(3):201–10

Phase II study of intensive chemotherapy with autologous bone marrow transplantation in patients in complete remission of disseminated breast cancer. de Vries EG, et al. **Breast Cancer Res Treat** 1996;39(3):307–13

New approaches in the therapy of breast cancer--introduction. Dickson RB, et al. **Breast Cancer Res Treat** 1996;38(1):1–2

High-dose chemotherapy with autologous stem cell rescue in breast cancer. Dillman RO, et al. **Breast Cancer Res Treat** 1996;37(3):277–89

Immunocytochemical detection of breast cancer cells in marrow and peripheral blood of patients undergoing high dose chemotherapy with autologous stem cell support. Franklin WA, et al. **Breast Cancer Res Treat** 1996; 41(1):1–13

Breast cancer angiogenesis--new approaches to therapy via antiangiogenesis, hypoxic activated drugs, and vascular targeting. Harris AL, et al. **Breast Cancer Res Treat** 1996; 38(1):97–108 (52 ref.)

Variation in staging and treatment of local and regional breast cancer in the elderly. Hillner BE, et al. **Breast Cancer Res Treat** 1996;40(1):75–86

Recombinant immunotoxins. Pastan I, et al. **Breast Cancer Res Treat** 1996;38(1):3–9 (25 ref.)

Hospital-related differences in breast cancer management. Analysis of an unselected population-based series of 1353 radically operated patients. Raabe NK, et al. **Breast Cancer Res Treat** 1997 May;43(3):225–35

Gene therapy strategies for carcinoma of the breast. Ruppert JM, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):93–114 (201 ref.)

A randomized crossover trial of tamoxifen versus ovarian ablation for metastatic breast cancer in premenopausal women: a report of the National Cancer Institute of Canada Clinical Trials Group (NCIC CTG) trial MA.1. Sawka CA, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):211–5

Strategies for the development of recombinant vaccines for the immunotherapy of breast cancer. Schlom J, et al. **Breast Cancer Res Treat** 1996;38(1):27–39 (36 ref.)

A guide for the guideline reader [comment] Weeks JC. **Breast Cancer Res Treat** 1997 May;43(3):277–8. Comment on: Breast Cancer Res Treat 1997 May;43(3):259–76.

Enhanced anti-proliferative activity of the combination of tamoxifen plus HER-2-neu antibody. Witters LM, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):1–5

Willingness to follow breast cancer. Survey of family physicians. Worster A, et al. **Can Fam Physician** 1996 Feb; 42:263–8

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Jul;5(2):369–75 (31 ref.)

Health-related quality of life as a treatment endpoint in metastatic breast cancer. Osoba D. **Can J Oncol** 1995 Dec; 5 Suppl 1:47–53 (52 ref.)

Patterns of initial management of node-negative breast cancer in two Canadian provinces. British Columbia/Ontario Working Group [see comments] Goel V, et al. **Can Med Assoc J** 1997 Jan 1;156(1):25–35. Comment in: Can Med Assoc J 1997 Jan 1;156(1):43–5. Comment in: Can Med Assoc J 1997 May 15;156(10):1379–80. Comment in: CMAJ 1997 Aug 1;157(3):251–3.

Prolonged nausea and vomiting after high dose chemotherapy and autologous peripheral stem cell transplantation in the treatment of high risk breast carcinoma. Hecht JR, et al. **Cancer** 1997 May 1; 79(9):1698–702

Effects of medical and psychotherapeutic treatment on the survival of women with metastatic breast carcinoma. Kogon MM, et al. **Cancer** 1997 Jul 15;80(2):225–30

Combined-modality treatment of inflammatory breast carcinoma: twenty years of experience at M. D. Anderson Cancer Center. Ueno NT, et al. **Cancer Chemother Pharmacol** 1997;40(4):321–9

Efficacy of p53 adenovirus-mediated gene therapy against human breast cancer xenografts. Nielsen LL, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):129–38

The effect of aging on the utilization of chemotherapy for metastatic breast cancer: a population-based study. Fetting JH, et al. **Cancer Invest** 1997;15(3):199–203

Management of stage IIIB breast cancer. Kennedy BJ, et al. **Cancer Invest** 1997;15(4):369–71 (28 ref.)

Treatment of metastatic breast cancer--economic and ethical considerations. Richter G. **Cancer Invest** 1997;15(4):335–41 (33 ref.)

Is breast-conserving surgery with radiation superior to mastectomy in selected patients? [comment] Haffty BG, et al. **Cancer J Sci Am** 1997 Jan-Feb;3(1):2–3. Comment on: Cancer J Sci Am 1997 Jan-Feb;3(1):6–12.

Breast-conserving therapy vs mastectomy in early-stage breast cancer: a meta-analysis of 10-year survival [see comments] Morris AD, et al. **Cancer J Sci Am** 1997 Jan-Feb;3(1):6–12. Comment in: Cancer J Sci Am 1997 Jan-Feb;3(1):2–3.

Microvessel density and outcome of adjuvant treatment of breast cancer patients [letter] Voest EE, et al. **Cancer J Sci Am** 1997 May-Jun;3(3):184–5

Optimization of chemotherapy administration for clinical 41.8 degrees C whole body hyperthermia. Katschinski DM, et al. **Cancer Lett** 1997 May 19;115(2):195–9

Health-related quality of life in women with breast cancer undergoing autologous stem-cell transplantation. Larsen J, et al. **Cancer Nurs** 1996 Oct;19(5):368–75

Overexpression of manganese-containing superoxide dismutase confers resistance to the cytotoxicity of tumor necrosis factor alpha and/or hyperthermia. Li JJ, et al. **Cancer Res** 1997 May 15;57(10):1991–8

Preclinical studies with Fc(gamma)R bispecific antibodies and granulocyte colony-stimulating factor-primed neutrophils as effector cells against HER-2/neu overexpressing breast cancer. Stockmeyer B, et al. **Cancer Res** 1997 Feb 15;57(4):696–701

Treatment of breast cancer. Townsend CM Jr. **Clin Symp** 1997;49(1):1–32 (10 ref.)

Primary care issues for the breast cancer survivor. Bines J, et al. **Compr Ther** 1997 Sep;23(9):605–11 (48 ref.)

The trials of Dr. Bernard Fisher: a European perspective on an American episode. Peto R, et al. **Control Clin Trials** 1997 Feb;18(1):1–13

High-dose chemotherapy for the treatment of breast and ovarian cancer [see comments] Cagnoni PJ, et al. **Curr Opin Oncol** 1997 Mar;9(2):122–5 (32 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

MRI in breast cancer diagnosis and treatment. Harms SE. **Curr Probl Diagn Radiol** 1996 Nov-Dec;25(6):193–215 (111 ref.)

Using BRCA1 to treat cancer [news] **Environ Health Perspect** 1996 Jul;104(7):686–7

Is routine axillary nodal dissection necessary in the treatment of breast cancer? Fentiman IS, et al. **Eur J Cancer** 1996 Aug;32A(9):1460–3

Locally advanced breast cancer: early results of a randomised trial of multimodal therapy versus initial hormone therapy. Willsher PC, et al. **Eur J Cancer** 1997 Jan;33(1):45–9

Audit of a conservative management policy of the axilla in elderly patients with operable breast cancer. al-Hilaly M, et al. **Eur J Surg Oncol** 1997 Aug;23(4):339–40

Ductal carcinoma in situ of the breast--current management. Sharma S, et al. **Eur J Surg Oncol** 1997 Jun;23(3):191–7 (103 ref.)

Effects of short-term in vivo administration of G-CSF on bone marrow prior to harvesting. Dicke KA, et al. **Exp Hematol** 1997 Jan;25(1):34–8

Potential of Varicella zoster virus thymidine kinase as a suicide gene in breast cancer cells. Grignet-Debrus C, et al. **Gene Ther** 1997 Jun;4(6):560–9

An intracellular anti-erbB-2 single-chain antibody is specifically cytotoxic to human breast carcinoma cells overexpressing erbB-2. Wright M, et al. **Gene Ther** 1997 Apr;4(4):317–22

TP53 and MYC gene alterations independently predict poor prognosis in breast cancer patients. Berns EM, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):170–9

Estrogen replacement therapy in women with prior diagnosis and treatment for breast cancer. Vassilopoulou-Sellin R, et al. **Gynecol Oncol** 1997 Apr;65(1):89–93

Gene therapy for the treatment of metastatic breast cancer by in vivo transduction with breast-targeted retroviral vector expressing antisense c-fos RNA. Holt JT, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1367–80

A phase I study of adenovirus mediated gene transfer of interleukin 2 cDNA into metastatic breast cancer or melanoma. Stewart AK, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1403–14

Dendritic cells transduced with an adenoviral vector encoding a model tumor-associated antigen for tumor vaccination. Wan Y, et al. **Hum Gene Ther** 1997 Jul 20; 8(11):1355–63

Parenteral gene therapy with p53 inhibits human breast tumors in vivo through a bystander mechanism without evidence of toxicity. Xu M, et al. **Hum Gene Ther** 1997 Jan 20;8(2):177–85

Adenovirus-mediated gene transfer of herpes simplex virus thymidine kinase in an ascites model of human breast cancer. Yee D, et al. **Hum Gene Ther** 1996 Jun 20; 7(10):1251–7

Breast cancer immunotherapy: current status and future prospects. Apostolopoulos V, et al. **Immunol Cell Biol** 1996 Oct;74(5):457–64 (41 ref.)

Central nervous system infection due to Clostridium septicum: a case report and review of the literature. Cheng YT, et al. **Infection** 1997 May-Jun;25(3):171–4 (14 ref.)

Analysis of thermal parameters obtained during phase III trials of hyperthermia as an adjunct to radiotherapy in the treatment of breast carcinoma. Hand JW, et al. **Int J Hyperthermia** 1997 Jul-Aug;13(4):343–64

The potential role of HSP70 as an indicator of response to radiation and hyperthermia treatments for recurrent breast cancer [see comments] Liu FF, et al. **Int J Hyperthermia** 1996 Mar-Apr;12(2):197–208; discussion 209–10. Comment in: Int J Hyperthermia 1996 Mar-Apr;12(2):301–2.

Potential role of HSP70 as an indicator of response to radiation and hyperthermia treatments for recurrent breast cancer [letter; comment] Liu FF, et al. **Int J Hyperthermia** 1996 Mar-Apr;12(2):301–2. Comment on: Int J Hyperthermia 1996 Mar-Apr;12(2):197–208; discussion 209–10.

Design of an ultrasonic therapy system for breast cancer treatment. Lu XQ, et al. **Int J Hyperthermia** 1996 May-Jun; 12(3):375–99

Results of breast conserving therapy for early breast cancer and the role of mammographic follow-up. Grosse A, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):761–7

Relationship between thermal dose and outcome in thermoradiotherapy treatments for superficial recurrences of breast cancer: data from a phase III trial. Sherar M, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):371–80

Delay in diagnosis and treatment of breast cancer: implications for education. Bedell MB, et al. **J Cancer Educ** 1995 Winter;10(4):223–8

Health beliefs and alternative medicine: a qualitative study of breast cancer patients. Brown PJ, et al. **J Cancer Educ** 1996 Winter;11(4):226–9

Teaching medical students by role playing: a model for integrating psychosocial issues with disease management. Mann BD, et al. **J Cancer Educ** 1996 Summer;11(2):65–72

Reversion of the malignant phenotype of human breast cells in three-dimensional culture and in vivo by integrin blocking antibodies. Weaver VM, et al. **J Cell Biol** 1997

Apr 7;137(1):231–45
Fatal diffuse invasive gastrointestinal candidiasis masking as ileus after bone marrow transplantation. DiBaise JK, et al. **J Clin Gastroenterol** 1997 Apr;24(3):165–8
Recommended breast cancer surveillance guidelines. American Society of Clinical Oncology. **J Clin Oncol** 1997 May;15(5):2149–56
Tumor–cell number and viability as quality and efficacy parameters of autologous virus–modified cancer vaccines in patients with breast or ovarian cancer [published erratum appears in J Clin Oncol 1997 Jul;15(7):2763] Ahlert T, et al. **J Clin Oncol** 1997 Apr;15(4):1354–66
High–dose chemotherapy with autologous hematopoietic stem–cell support for breast cancer in North America. Antman KH, et al. **J Clin Oncol** 1997 May;15(5):1870–9
Age–related patterns of care: evidence against ageism in the treatment of early–stage breast cancer. Guadagnoli E, et al. **J Clin Oncol** 1997 Jun;15(6):2338–44
Measuring standards of care for early breast cancer in an insured population [see comments] Hillner BE, et al. **J Clin Oncol** 1997 Apr;15(4):1401–8. Comment in: J Clin Oncol 1997 Jul;15(7):2761.
Breast conservation and prolonged chemotherapy for locally advanced breast cancer: the University of Michigan experience. Merajver SD, et al. **J Clin Oncol** 1997 Aug; 15(8):2873–81
Compliance with practice guidelines for node–negative breast cancer. Olivotto A, et al. **J Clin Oncol** 1997 Jan; 15(1):216–22
Similar breast cancer cell contamination of single–day peripheral–blood progenitor–cell collections obtained after priming with hematopoietic growth factor alone or after cyclophosphamide followed by growth factor. Passos–Coelho JL, et al. **J Clin Oncol** 1996 Sep; 14(9):2569–75
Natural history of node–positive breast cancer: the curability of small cancers with a limited number of positive nodes. Quiet CA, et al. **J Clin Oncol** 1996 Dec;14(12):3105–11
Repetitive cycles of cyclophosphamide, thiotepa, and carboplatin intensification with peripheral–blood progenitor cells and filgrastim in advanced breast cancer patients. Shapiro CL, et al. **J Clin Oncol** 1997 Feb; 15(2):674–83
High–dose chemotherapy and stem–cell rescue in the treatment of high–risk breast cancer: prognostic indicators of progression–free and overall survival. Somlo G, et al. **J Clin Oncol** 1997 Aug;15(8):2882–93
Impaired stem cell collection by consecutive courses of high–dose mobilizing chemotherapy using cyclophosphamide, etoposide, and G–CSF. Akard LP, et al. **J Hematother** 1996 Jun;5(3):271–7
Harvest quality and factors affecting collection and engraftment of CD34+ cells in patients with breast cancer scheduled for high–dose chemotherapy and peripheral blood progenitor cell support. Papadopoulos KP, et al. **J Hematother** 1997 Feb;6(1):61–8
Prognostic significance of preimmunotherapy serum CA27.29 (MUC–1) mucin level after active specific immunotherapy of metastatic adenocarcinoma patients. MacLean GD, et al. **J Immunother** 1997 Jan;20(1):70–8
Enhancing the effect of THERATOPE STn–KLH cancer vaccine in patients with metastatic breast cancer by pretreatment with low–dose intravenous cyclophosphamide. MacLean GD, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jul; 19(4):309–16
Phase II study of recombinant alpha–interferon (rIFN alpha) and continuous–infusion 5–fluorouracil in metastatic breast cancer. Walters RS, et al. **J Immunother Emphasis Tumor Immunol** 1995 Oct; 18(3):185–7
Fisher suit against Pitt and the federal government settled [news] **J Natl Cancer Inst** 1997 Sep 17;89(18):1336–7
New clinical trials under way for DCIS [news] Blume E. **J Natl Cancer Inst** 1997 Aug 6;89(15):1094
Ductal carcinoma in situ of the breast: a new model [editorial; comment] Hayes DF. **J Natl Cancer Inst** 1997 Jul 16; 89(14):991–3 (17 ref.). Comment on: J Natl Cancer Inst 1997 Jul 16;89(14):1059–65.
Green tea, mistletoe, and more: Canadians test alternative cancer therapies [news] Holzman D. **J Natl Cancer Inst** 1997 May 21;89(10):683–4
Genetic therapy for breast cancer reaches the drawing board. McBride G. **J Natl Cancer Inst** 1996 Dec 4;88(23):1710
Marketing clinical trials on the internet [news] McNeil C. **J Natl Cancer Inst** 1996 Oct 16;88(20):1435
Europa Donna unites Europe against breast cancer [news] Steimle S. **J Natl Cancer Inst** 1996 Nov 20;88(22):1614–5
Effectiveness of a short–term group psychotherapy program on endocrine and immune function in breast cancer patients: an exploratory study. van der Pompe G, et al. **J Psychosom Res** 1997 May;42(5):453–66
First two years of a follow–up breast clinic led by a nurse practitioner. Earnshaw JJ, et al. **J R Soc Med** 1997 May; 90(5):258–9
Systemic adjuvant therapy of breast cancer. Garrett TJ, et al. **J Surg Oncol** 1997 Feb;64(2):167–72 (35 ref.)
Breast cancer patients' personality style, age, and treatment decision making. Johnson JD, et al. **J Surg Oncol** 1996 Nov;63(3):183–6
At the bedside: when a doctor's wife is ill. Belinson JL. **J Womens Health** 1997 Feb;6(1):41–4
Breast cancer researchers cleared of charges [news] Skolnick AA. **JAMA** 1997 Mar 26;277(12):950
Researchers struggle with trials of stem–cell transplants for breast cancer [news] Stephenson J. **JAMA** 1997 Jun 18; 277(23):1827–9
Breast carcinoma: treat or overtreat [editorial] Mehdi I. **JPMA J Pak Med Assoc** 1996 Jul;46(7):142–3 (28 ref.)
Ovarian ablation in early breast cancer: overview of the randomised trials. Early Breast Cancer Trialists' Collaborative Group [see comments] **Lancet** 1996 Nov 2; 348(9036):1189–96. Comment in: Lancet 1996 Nov 2;348(9036):1184.
Time for reappraisal of ovarian ablation in early breast cancer [comment] Barley V. **Lancet** 1996 Nov 2;348(9036):1184. Comment on: Lancet 1996 Nov 2;348(9036):1189–96.
Graft–versus–tumour and graft–versus–leukaemia effect in patient with concurrent breast cancer and acute myelocytic leukaemia [letter] Ben–Yosef R, et al. **Lancet** 1996 Nov 2;348(9036):1242–3
Scottish randomised controlled trial of conservation therapy for breast cancer [letter; comment] Hobohm U. **Lancet** 1996 Nov 23;348(9039):1458; discussion 1459. Comment on: Lancet 1996 Sep 14;348(9029):708–13.
Scottish randomised controlled trial of conservation therapy for breast cancer [letter; comment] Kunkler I. **Lancet** 1996 Nov 23;348(9039):1458–9. Comment on: Lancet 1996 Sep 14;348(9029):708–13.
Granulocyte–macrophage colony–stimulating factor dependent monocyte–mediated cytotoxicity post–autologous bone marrow transplantation. Nagler A, et al. **Leuk Res** 1996 Aug;20(8):637–43
Arm edema after treatment for breast cancer. Guedes Neto HI. **Lymphology** 1997 Mar;30(1):35–6
Are hemodynamic factors important in arm lymphedema after treatment of breast cancer? Martin KP, et al. **Lymphology** 1996 Dec;29(4):155–7
The efficacy of surgical treatment of breast cancer. Benjamin DJ. **Med Hypotheses** 1996 Nov;47(5):389–97
Using CommonKADS to create a conceptual model of a guideline system for breast cancer prognosis. Sacile R, et al. **Med Inf (Lond)** 1996 Jan–Mar;21(1):45–59
Breast cancer management: a rural perspective. Tulloh BR, et al. **Med J Aust** 1997 Jan 6;166(1):26–9
Follow up of breast cancer patients [letter; comment] Harvey V, et al. **N Z Med J** 1996 Nov 8;109(1033):432. Comment on: N Z Med J 1996 Apr 12;109(1019):125–6.
Alpha v integrins as receptors for tumor targeting by circulating ligands [see comments] Pasqualini R, et al. **Nat Biotechnol** 1997 Jun;15(6):542–6. Comment in: Nat Biotechnol 1997 Jun;15(6):510.
Korea leaps before it looks over gene therapy guidelines [news] Swinbanks D. **Nature** 1997 May 1;387(6628):6
Combinatorial effects of monoclonal anti–p120 antibody (MAbp120), liposomes and hyperthermia on MCF–7 and LOX tumor cell lines. Perlaky L, et al. **Oncol Res** 1996; 8(9):363–9
Clinical trial to evaluate antitumor activity of epidermal growth factor in breast cancer [news] **Oncology (Huntingt)** 1996 May;10(5):709
How one company decides when to pay for experimental therapies [news] **Oncology (Huntingt)** 1995 Jul;9(7):666
NCCN Breast Cancer Practice Guidelines. The National Comprehensive Cancer Network. Carlson RW, et al. **Oncology (Huntingt)** 1996 Nov;10(11 Suppl):47–75
Clinical trials referral resource. New autologous stem–cell transplant protocols. Cheson BD, et al. **Oncology (Huntingt)** 1997 Feb;11(2):178–80
Tamoxifen's impact on the management of breast cancer: the oncologist's perspective. Glick JH, et al. **Oncology (Huntingt)** 1997 Feb;11(2 Suppl 1):49–54 (5 ref.)
Health insurance: coverage of autologous bone marrow transplantation for breast cancer. Jaggar SF. **Oncology (Huntingt)** 1996 Sep;10(9):1329–32, 1337–8, 1340 passim
Challenges for future breast cancer trials [letter; comment] Lawrence G. **Oncology (Huntingt)** 1996 Nov;10(11):1610. Comment on: Oncology (Huntingt) 1996 Jul;10(7):991–1002; discussion 1006–7, 1011.
Synergy of Taxol and radioimmunotherapy with yttrium–90–labeled chimeric L6 antibody: efficacy and toxicity in breast cancer xenografts. DeNardo SJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4000–4
Results of MDR–1 vector modification trial indicate that granulocyte/macrophage colony–forming unit cells do not contribute to posttransplant hematopoietic recovery following intensive systemic therapy [published erratum appears in Proc Natl Acad Sci U S A 1997 May 13;94(10):5495] Hanania EG, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15346–51
Primary chemotherapy and preoperative irradiation for patients with stage II larger than 3 cm or locally advanced non–inflammatory breast cancer. Touboul E, et al. **Radiother Oncol** 1997 Mar;42(3):219–29
Current controversies in the therapeutic approach to early breast cancer in the elderly. Cerrotta A, et al. **Rays** 1997 Jan–Mar;22(1 Suppl):66–8
Breast reconstruction and tissue expansion in irradiated versus not irradiated women after mastectomy. Kraemer O, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):201–6
Endocrine therapies of breast cancer. Goldhirsch A, et al. **Semin Oncol** 1996 Aug;23(4):494–505 (105 ref.)
Options in the local management of invasive breast cancer. Nixon AJ, et al. **Semin Oncol** 1996 Aug;23(4):453–63 (42 ref.)
Conclusions: future strategies in the treatment of breast cancer. Piccart MJ, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 3):S34–40 (71 ref.)
New treatments for breast cancer. Smith G, et al. **Semin Oncol** 1996 Aug;23(4):506–28 (161 ref.)
Hormonal approaches to breast cancer treatment and prevention: an overview. Vogel CL. **Semin Oncol** 1996 Aug;23(4 Suppl 9):2–9 (41 ref.)
Management of lobular carcinoma in situ and ductal carcinoma in situ of the breast. Wood WC. **Semin Oncol** 1996 Aug;23(4):446–52 (50 ref.)
Recommendations on follow–up of breast cancer patients following primary therapy. Khandekar JD. **Semin Surg Oncol** 1996 Sep–Oct;12(5):346–51 (37 ref.)
Pregnancy and breast cancer. Merkel DE. **Semin Surg Oncol** 1996 Sep–Oct;12(5):370–5 (43 ref.)
Summary measures and statistics for comparison of quality of life in a clinical trial of cancer therapy. Fairclough DL. **Stat Med** 1997 Jun 15;16(11):1197–209
Quality assurance of the EORTC Trial 22881/10882: boost versus no boost in breast conserving therapy. An overview. van Tienhoven G, et al. **Strahlenther Onkol** 1997 Apr; 173(4):201–7
Fatigue in women treated with bone marrow transplantation for breast cancer: a comparison with women with no history of cancer. Hann DM, et al. **Support Care Cancer** 1997 Jan;5(1):44–52
Systemic adjuvant therapy in mammographically discovered invasive cancer. Wood WC. **Surg Oncol Clin N Am** 1997 Apr;6(2):381–4
[Predictive factors of local recurrence of in situ intraductal carcinoma. Apropos of 217 cases] Abbes M, et al. **Bull Cancer** 1997 Feb;84(2):135–40 (Eng. Abstr.) **(Fre)**
[Frequency of lymphedema of the upper limb after treatment of breast cancer. Risk factors. Apropos of 683 cases] Ferrandez JC, et al. **Bull Cancer** 1996 Dec;83(12):989–95 (21 ref.) (Eng. Abstr.) **(Fre)**
[Value of detection of hormone receptors by biochemical and immunochemical methods in therapeutic decision for breast cancer] Goussard J. **Bull Cancer** 1996 Dec; 83(12):1031–6 (Eng. Abstr.) **(Fre)**
[Primary angiosarcoma of the breast. Apropos of 2 cases] Melhouf MM, et al. **Bull Cancer** 1997 Feb;84(2):218–22 (55 ref.) (Eng. Abstr.) **(Fre)**
[Angiosarcoma of the breast. Apropos of 8 cases and review of the literature] Molitor JL, et al. **Bull Cancer** 1997 Feb; 84(2):206–11 (44 ref.) (Eng. Abstr.) **(Fre)**
[Hepatic resection for breast cancer metastasis. The concept of adjuvant surgery] Pocard M, et al. **Bull Cancer** 1997 Jan;84(1):47–50 (Eng. Abstr.) **(Fre)**
[Adjuvant combined radiochemotherapy: a feasibility study of a new strategy in stages I and II] Serin D, et al. **Bull Cancer** 1997 Mar;84(3):247–53 (32 ref.) (Eng. Abstr.) **(Fre)**
[Radiotherapy of spinal metastases in breast cancer. Apropos of a series of 108 patients] Prié L, et al. **Cancer Radiother** 1997;1(3):234–9 (30 ref.) (Eng. Abstr.) **(Fre)**
[Role of radiotherapy in the management of adenocarcinoma of the breast accessible to conservative surgery] Romestaing P, et al. **Cancer Radiother** 1997;1(1):14–28 (134 ref.) (Eng. Abstr.) **(Fre)**
[Estrogen replacement therapy in women treated for breast cancer] Brémond A. **Contracept Fertil Sex** 1997 Feb; 25(2):XIV–XVI (25 ref.) **(Fre)**
[Treatment of breast cancer during pregnancy] Espié M, et al. **Contracept Fertil Sex** 1996 Nov;24(11):805–10 (49 ref.) (Eng. Abstr.) **(Fre)**
[Lymphoscintigraphic aspects of the effects of manual lymphatic drainage] Ferrandez JC, et al. **J Mal Vasc** 1996; 21(5):283–9 (Eng. Abstr.) **(Fre)**
[Therapeutic intensification and autotransplantation of hematopoietic stem cells in metastatic breast cancers] Lotz JP, et al. **Presse Med** 1996 Nov 16;25(35):1737–43 (35 ref.) (Eng. Abstr.) **(Fre)**
[Diagnostic and therapeutic characteristics of breast cancer in elderly women. Groupe Sein du Centre Alexis Vautrin] Marchal C, et al. **Presse Med** 1996 Nov 9;25(34):1636–42 (35 ref.) (Eng. Abstr.) **(Fre)**
[Therapeutic indications for breast cancer] Colin C. **Rev Med Liege** 1997 Feb;52(2):69–72 **(Fre)**
[Up–to–date treatment of breast cancer. Myeloblastic chemotherapy and hematopoietic cell grafting] Jerusalem G. **Rev Med Liege** 1997 Feb;52(2):76–9 **(Fre)**
[New after–care guidelines in breast carcinoma] Sauer H. **Geburtshilfe Frauenheilkd** 1996 Sep;56(9):M141–3 (14 ref.) **(Ger)**
[Angiosarcoma of the breast after breast–preserving therapy of invasive ductal carcinoma] Friedrich M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):195–7 **(Ger)**
[Breast carcinoma: state of the art] Pestalozzi BC. **Schweiz Med Wochenschr** 1996 Nov 30;126(48):2049–58 (54 ref.) (Eng. Abstr.) **(Ger)**
[Combined breast–preserving surgery, chemotherapy and radiotherapy in the treatment of breast carcinoma. Effect of the interval between surgery and the beginning of radiotherapy (published erratum appears in Strahlenther Onkol 1997 Apr;173(4):245)] Willers H, et al.

Strahlenther Onkol 1997 Mar;173(3):148–54 (Eng. Abstr.) **(Ger)**

[Therapy of breast carcinoma (editorial)] Saeger HD. **Zentralbl Chir** 1997;122(2):65–6 **(Ger)**

[Significance of stem cell–supported high–dose chemotherapy in the treatment of gynecological malignancies: indications and current clinical trials in the Federal Republic of Germany] Nitz U, et al. **Zentralbl Gynakol** 1997;119(5):195–203 (Eng. Abstr.) **(Ger)**

[Experience with conservative therapy in primary breast cancer: experiences Northern Israel Oncology Center, 1981–1990] Fried G, et al. **Harefuah** 1996 May 1; 130(9):589–93, 654 (Eng. Abstr.) **(Heb)**

[Prognostic factors in breast cancer patients] Roisman I, et al. **Harefuah** 1996 May 15;130(10):693–9 (49 ref.) **(Heb)**

[Role of biological indicators in the therapeutic decision in breast carcinoma] Amadori D, et al. **Chir Ital** 1995; 47(4):15–22 (Eng. Abstr.) **(Ita)**

[Ulcerated carcinoma of the breast in an elderly woman. An unusual clinical case report] Di Vita G, et al. **G Chir** 1997 Jan–Feb;18(1–2):31–5 (Eng. Abstr.) **(Ita)**

[Treatment of stage IV breast carcinoma] Vadalà G, et al. **Minerva Chir** 1996 Oct;51(10):799–803 (Eng. Abstr.) **(Ita)**

[Primary medical therapy (preoperative therapy) in the treatment of operable breast cancer] Taguchi T. **Gan To Kagaku Ryoho** 1996 Nov;23(13):1733–9 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Quantitative evaluation of magnetization transfer ratio in irradiated breast with breast conservation therapy] Itoh Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):67–8 (Eng. Abstr.) **(Jpn)**

[High–dose therapy with autologous stem cell support in malignant lymphoma and breast cancer. Experiences with hematopoietic stem cells isolate from blood] Kolstad A, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2547–51 (Eng. Abstr.) **(Nor)**

[High–dose therapy of cancer with CD34 positive cells as stem cell support] Kvalheim G, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2542–6 (Eng. Abstr.) **(Nor)**

[Advice on cancer treatment (letter)] Mørland B. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2607 **(Nor)**

[New methods in the treatment of breast cancer] Semiglazov VF. **Vopr Onkol** 1997;43(1):22–6 (Eng. Abstr.) **(Rus)**

[Local recurrence after preoperative irradiation and radical surgery in patients with locally advanced breast carcinoma (clinical stage A)] Borojević N, et al. **Srp Arh Celok Lek** 1996 Jan–Feb;124(1–2):14–7 (Eng. Abstr.) **(Scc)**

ULTRASONOGRAPHY

Ultrasound–guided fine needle aspiration biopsy in the diagnosis of breast cancer recurrence after mastectomy. Rissanen TJ, et al. **Acta Radiol** 1997 Mar;38(2):232–9

Interobserver variation in the interpretation of breast imaging. Comparison of mammography, ultrasonography, and both combined in the interpretation of palpable noncalcified breast masses. Skaane P, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):497–502

Sonographic tailoring of electron beam boost site after lumpectomy and radiation therapy for breast cancer. Birdwell RL, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):39–40

A simple method for relative assessment of the sound propagation velocity in breast tumors: technique and diagnostic efficacy. Pedersen JF. **AJR Am J Roentgenol** 1997 Jun;168(6):1591–4

Ultrasound in the detection of breast cancer associated with isolated clustered microcalcifications, mammographically identified. Ranieri E, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2831–5

Determining and classifying the region of interest in ultrasonic images of the breast using neural networks. Buller D, et al. **Artif Intell Med** 1996 Feb;8(1):53–66

Ultrasound of malignant breast microcalcifications: role in evaluation and guided procedures. Rickard MT. **Australas Radiol** 1996 Feb;40(1):26–31

Clinically and mammographically occult invasive ductal carcinoma diagnosed by ultrasound: the focally dilated duct. Yang WT, et al. **Australas Radiol** 1997 Feb;41(1):73–5

In vivo demonstration of microcalcification in breast cancer using high resolution ultrasound. Yang WT, et al. **Br J Radiol** 1997 Jul;70(835):685–90

Occult breast carcinoma—use of color Doppler in localization. Lee WJ, et al. **Breast Cancer Res Treat** 1996; 37(3):299–302

Quantitative analysis of the shape of breast mass by ultrasonography: deformity index. Wang Y, et al. **Chin Med J (Engl)** 1996 Jun;109(6):491–3

Ultrasound guided percutaneous galactography. Hussain S, et al. **Eur J Radiol** 1997 Feb;24(2):163–5

High–resolution sonography of breast carcinoma. Rizzatto G, et al. **Eur J Radiol** 1997 Jan;24(1):11–9 (21 ref.)

Color Doppler and duplex flow analysis for classification of breast lesions. Madjar H, et al. **Gynecol Oncol** 1997 Mar; 64(3):392–403

Description and first clinical use of a new system for combined mammography and automated clinical amplitude/velocity reconstructive imaging breast sonography. Richter K, et al. **Invest Radiol** 1997 Jan; 32(1):19–28

Color Doppler ultrasound and spectral analysis of tumor vessels in the differential diagnosis of solid breast masses. Sahin–Akyar G, et al. **Invest Radiol** 1996 Feb;31(2):72–9

Radiological case of the month. Benign simple cyst, benign fibroadenoma & malignant carcinoma of the breast. Anderson NK, et al. **J Ark Med Soc** 1996 Sep;93(4):203–9

A direct relationship between thyroid enlargement and breast cancer. Smyth PP, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):937–41

Ultrasonographic detection of interpectoral (Rotter's) node involvement in breast cancer. Oran I, et al. **J Clin Ultrasound** 1996 Nov–Dec;24(9):519–22

Value of axillary ultrasonography and sonographically guided puncture of axillary nodes: a prospective study in 144 consecutive patients. Verbanck J, et al. **J Clin Ultrasound** 1997 Feb;25(2):53–6

Nonpalpable breast lesions: pathologic correlation of ultrasonographically guided fine–needle aspiration biopsy. Saarela AO, et al. **J Ultrasound Med** 1996 Aug; 15(8):549–53; quiz 555–6

Unusual sonographic appearance with color Doppler imaging of bilateral breast metastases in a patient with alveolar rhabdomyosarcoma of an extremity. Yang WT, et al. **J Ultrasound Med** 1996 Jul;15(7):531–3

Sonographic features of benign papillary neoplasms of the breast: review of 22 patients. Yang WT, et al. **J Ultrasound Med** 1997 Mar;16(3):161–8

High resolution sonographic detection of axillary lymph node metastases in breast cancer. Yang WT, et al. **J Ultrasound Med** 1996 Mar;15(3):241–6

Assessment of factors affecting palpability of breast masses using ultrasonography in Chinese women. Yang WT, et al. **J Ultrasound Med** 1996 Dec;15(12):807–12

Lactating adenoma of the breast: antepartum and postpartum sonographic and color Doppler imaging appearances with histopathologic correlation. Yang WT, et al. **J Ultrasound Med** 1997 Feb;16(2):145–7

Study advocates breast ultrasound screening as an adjunct to mammography [news] **Oncology (Huntingt)** 1996 Aug; 10(8):1265

Elastography of breast lesions: initial clinical results. Garra BS, et al. **Radiology** 1997 Jan;202(1):79–86

Recent issues in breast cancer detection and the premarket approval by the Food and Drug Administration of a US system for breast lesion evaluation: what happened to science? [see comments] Kopans DB. **Radiology** 1997 Feb; 202(2):315–6. Comment in: Radiology 1997 Feb;202(2):317–8.

Solid breast lesions: evaluation with power Doppler US. Raza S, et al. **Radiology** 1997 Apr;203(1):164–8

Science is alive and well at the Food and Drug Administration [comment] Schultz DG, et al. **Radiology** 1997 Feb;202(2):317–8. Comment on: Radiology 1997 Feb;202(2):315–6.

Clinical target volume localization using conventional methods (anatomy and palpation) and ultrasonography in early breast cancer post–operative external irradiation. Valdagni R, et al. **Radiother Oncol** 1997 Mar;42(3):231–7

Sonographic blood flow measurements in malignant breast tumors. A potential new prognostic factor. Sohn C, et al. **Surg Endosc** 1997 Sep;11(9):957–60

Ultrasonographic guidance for needle biopsy of breast lesions. Sadowsky NL, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):265–84 (41 ref.)

Ultrasound tissue displacement imaging with application to breast cancer. Chen EJ, et al. **Ultrasound Med Biol** 1995; 21(9):1153–62

Classical versus artificial neural network analysis [comment] Newey VR. **Ultrasound Obstet Gynecol** 1997 Jul;10(1):5–8 (45 ref.). Comment on: Ultrasound Obstet Gynecol 1997 Jul;10(1):41–7. Comment on: Ultrasound Obstet Gynecol 1997 Jul;10(1):48–53.

Optimized differential diagnosis of breast lesions by combined B–mode and color Doppler sonography [see comments] Schelling M, et al. **Ultrasound Obstet Gynecol** 1997 Jul; 10(1):48–53. Comment in: Ultrasound Obstet Gynecol 1997 Jul;10(1):5–8. Comment in: Ultrasound Obstet Gynecol 1997 Jul;10(1):9–11.

[The value of ultrasonography in the early diagnosis of breast cancer (letter; comment)] Charles R. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(2):202. Comment on: J Gynecol Obstet Biol Reprod (Paris) 1997;26(1):27–31. **(Fre)**

[Analysis of the results of 137 subclinical breast lesions excisions. Value of ultrasonography in the early diagnosis of breast cancer (see comments)] Jacob D, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):27–31 (Eng. Abstr.). Comment in: J Gynecol Obstet Biol Reprod (Paris) 1997;26(2):202. **(Fre)**

[Ultrasound mammography] Lesnik G, et al. **Acta Med Austriaca** 1997;24(2):33–8 (38 ref.) (Eng. Abstr.) **(Ger)**

[Value of preoperative axilla ultrasound in breast carcinoma] Haid A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:98–100 (Eng. Abstr.) **(Ger)**

[Metastasis to the sternum or parasternal recurrence of breast carcinoma? Value of sonography] Mende U, et al. **Radiologe** 1996 Jan;36(1):22–30 (Eng. Abstr.) **(Ger)**

[Ranking of color–coded duplex ultrasonography (CCDU) in the staging of breast tumors] Fiedler V, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):159–65 (Eng. Abstr.) **(Ger)**

[Can the high–resolution 13–MHz ultrasonography facilitate the preoperative localization and marking of microcalcification clusters?] Kenzel PP, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):551–6 (Eng. Abstr.) **(Ger)**

[Ultrasonography of the breast] Fournier D, et al. **Ther Umsch** 1997 Jan;54(1):6–12 (Eng. Abstr.) **(Ger)**

[Comparison between current and high resolution ultrasound for diagnosis of breast lesions] Schnarkowski P, et al. **Ultraschall Med** 1996 Aug;17(4):190–4 (Eng. Abstr.) **(Ger)**

[Discrimination of small breast lesions with Doppler ultrasound] Germer U, et al. **Zentralbl Gynakol** 1996; 118(8):453–7 (Eng. Abstr.) **(Ger)**

[What is the reliability of conventional ultrasound mammography and color coded ultrasound in diagnosis of breast tumors?] Sohn C, et al. **Zentralbl Gynakol** 1996; 118(3):142–7 (Eng. Abstr.) **(Ger)**

[Ultrasonography–detected ductal thickness as potential characteristic of breast carcinoma] Nani MT. **Radiol Med (Torino)** 1996 Nov;92(5):569–74 (Eng. Abstr.) **(Ita)**

[Potentialities of ultrasound examination in differential diagnosis of benign nodules and breast cancer] Vetshev PS, et al. **Khirurgiia (Mosk)** 1997;(6):15–20 (Eng. Abstr.) **(Rus)**

[Ultrasonography and differential diagnosis of breast cancer] Zaĭtsev AN, et al. **Vopr Onkol** 1997;43(3):330–4 (Eng. Abstr.) **(Rus)**

[Comprehensive radiographic diagnosis of breast cancer] Zaĭtsev AN, et al. **Vopr Onkol** 1996;42(6):58–60 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Total number of cancer cell nuclei and mitoses in breast tumors estimated by the optical disector. Ladekarl M, et al. **Anal Quant Cytol Histol** 1997 Aug;19(4):329–37

Expression of the androgen receptor and an androgen–responsive protein, apolipoprotein D, in human breast cancer. Hall RE, et al. **Br J Cancer** 1996 Oct; 74(8):1175–80

Loss of interleukin 4 receptor–associated molecule gp200–MR6 in human breast cancer: prognostic significance. Kaklamanis L, et al. **Br J Cancer** 1996 Nov; 74(10):1627–31

Irreversible loss of the oestrogen receptor in T47D breast cancer cells following prolonged oestrogen deprivation [published erratum appears in Br J Cancer 1997;75(10):1557] Pink JJ, et al. **Br J Cancer** 1996 Oct; 74(8):1227–36

Sex steroid receptor expression in 'carcinoid' tumours of the breast. Birsak CA, et al. **Breast Cancer Res Treat** 1996; 40(3):243–9

Sex steroid binding protein receptor (SBP–R) is related to a reduced proliferation rate in human breast cancer. Catalano MG, et al. **Breast Cancer Res Treat** 1997 Feb; 42(3):227–34

CD44 variant expression and estrogen receptor status in breast cancer. Hole AK, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):165–73

Improvement of quality control for steroid receptor measurements: analysis of distributions in more than 40000 primary breast cancers. French Study Group on Tissue and Molecular Biopathology. Romain S, et al. **Breast Cancer Res Treat** 1996;41(2):131–9

Quantification of uPA receptor expression in human breast cancer cell lines by cRT–PCR. Sliutz G, et al. **Breast Cancer Res Treat** 1996;40(3):257–63

Tamoxifen aziridine labeling of the estrogen receptor–potential utility in detecting biologically aggressive breast tumors. Trivedi S, et al. **Breast Cancer Res Treat** 1996;40(3):231–41

Simultaneous expression of nitric oxide synthase and estrogen receptor in human breast cancer cell lines. Zeillinger R, et al. **Breast Cancer Res Treat** 1996;40(2):205–7

Intra nuclear estrogen receptor status and its clinicopathological correlation in breast cancer patients. Khanna HD, et al. **Cancer Biochem Biophys** 1996 Apr; 15(3):141–9

Liarozole potentiates the all–trans–retinoic acid–induced structural remodelling in human breast carcinoma MCF–7 cells in vitro. Van heusden J, et al. **Eur J Cell Biol** 1996 Sep;71(1):89–98

Prognostic value of argyrophylic nucleolar organiser regions (AgNORs) in breast lesions. Simha M, et al. **Indian J Cancer** 1996 Jun;33(2):76–85

Effect of oestradiol and insulin on the proliferative pattern and on oestrogen and progesterone receptor contents in MCF–7 cells. Panno ML, et al. **J Cancer Res Clin Oncol** 1996;122(12):745–9

Synthesis, in vitro validation and in vivo pharmacokinetics of [125I]N–[2–(4–iodophenyl)ethyl]–N–methyl–2–(1–piperidinyl) ethylamine: a high–affinity ligand for imaging sigma receptor positive tumors. John CS, et al. **Nucl Med Biol** 1996 Aug;23(6):761–6

Expression and function of members of the cytokine receptor superfamily on breast cancer cells. Douglas AM, et al. **Oncogene** 1997 Feb 13;14(6):661–9

Solid papillary carcinoma of breast: an ultrastructural study. Dickersin GR, et al. **Ultrastruct Pathol** 1997 Mar–Apr; 21(2):153–61

[Damage to breast cancer cells after the use of radiotherapy modifiers] Monakhov AG, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):684–6 **(Rus)**

URINE

Breast cancer prognostic significance of some modified urinary nucleosides. Sasco AJ, et al. **Cancer Lett** 1996 Nov 29;108(2):157–62

A pilot study of urinary estrogen metabolites (16alpha–OHE1 and 2–OHE1) in postmenopausal women with and without breast cancer. Ursin G, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:601–5

Re: Ethnic differences in estrogen metabolism in healthy women [letter; comment] Coker AL, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):89–90. Comment on: J Natl Cancer Inst 1996 May 1;88(9):617.

VIROLOGY

Transcription of human endogenous retroviral sequences related to mouse mammary tumor virus in human breast and placenta: similar pattern in most malignant and nonmalignant breast tissues. Yin H, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10;13(6):507–16

Possibilities of a viral etiology for human breast cancer. A review. Pogo BG, et al. **Biol Trace Elem Res** 1997 Jan; 56(1):131–42 (83 ref.)

Primary effusion lymphoma in women: report of two cases of Kaposi's sarcoma herpes virus–associated effusion–based lymphoma in human immunodeficiency virus–negative women. Said JW, et al. **Blood** 1996 Oct 15;88(8):3124–8

Human papilloma virus DNA: a factor in the pathogenesis of mammary Paget's disease? Czerwenka K, et al. **Breast Cancer Res Treat** 1996;41(1):51–7

Absence of human papillomavirus DNA in breast cancer as revealed by polymerase chain reaction. Gopalkrishna V, et al. **Breast Cancer Res Treat** 1996;39(2):197–202

An unlikely link? Researchers probe viral role in breast cancer [news] Ziegler J. **J Natl Cancer Inst** 1997 May 7; 89(9):608–10

Is breast cancer caused by late exposure to a common virus? Richardson A. **Med Hypotheses** 1997 Jun;48(6):491–7 (69 ref.)

Type 1 HERV–K genome is spliced into subgenomic transcripts in the human breast tumor cell line T47D. Etkind PR, et al. **Virology** 1997 Aug 4;234(2):304–8

BREAST NEOPLASMS, MALE

Fibromatosis of male breast. Rudan I, et al. **Acta Med Croatica** 1996;50(3):157–9

Synchronous bilateral primary male breast carcinoma with hyperprolactinemia. Karamanakos P, et al. **Acta Oncol** 1996;35(6):757–9 (24 ref.)

Male breast cancer. Memon MA, et al. **Br J Surg** 1997 Apr; 84(4):433–5

[Gastric perforation caused by metastasis of breast cancer in a man (letter; comment)] Fra J, et al. **Presse Med** 1996 Sep 14;25(26):1215. Comment on: Presse Med 1994 Dec 3;23(38):1758–9. **(Fre)**

[Breast cancer in males. Report of 4 cases] Antonio Pérez J, et al. **Rev Med Chil** 1995 Oct;123(10):1270–4 (21 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Relationship between CA 15–3 serum levels and disease extent in predicting overall survival of breast cancer patients with newly diagnosed metastatic disease. Tampellini M, et al. **Br J Cancer** 1997;75(5):698–702

CHEMICALLY INDUCED

Lobular carcinoma of the male breast associated with the use of cimetidine. San Miguel P, et al. **Virchows Arch** 1997 Mar;430(3):261–3 (26 ref.)

CHEMISTRY

Comparison of prognostic markers detected by immunohistochemistry in male and female breast carcinomas. Weber–Chappuis K, et al. **Eur J Cancer** 1996 Sep;32A(10):1686–92

Lack of relationship between the expression of Hsp27 heat shock estrogen receptor–associated protein and estrogen receptor or progesterone receptor status in male breast carcinoma. Muñoz de Toro MM, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5–6):277–84

Male breast cancer: a retrospective study with immunohistochemical analysis of hormone receptor expression. Tan PH, et al. **Pathology** 1997 Feb;29(1):2–6

DIAGNOSIS

Adenomyoepithelioma of the breast in a male [letter] Berna JD, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):917–8

Malignant hematopoietic breast tumors. Lin Y, et al. **Am J Clin Pathol** 1997 Feb;107(2):177–86

Sensitivity, specificity and predictive values of breast imaging in the detection of cancer. Duijm LE, et al. **Br J Cancer** 1997;76(3):377–81

Case report: mammographic and ultrasound appearances of Kaposi's sarcoma of the breast. Ng CS, et al. **Clin Radiol** 1996 Oct;51(10):735–6

Tl–201 scintigraphy, mammography and ultrasonography in the evaluation of palpable and nonpalpable breast lesions: a correlative study. Özdemir A, et al. **Eur J Radiol** 1997 Feb;24(2):145–54

Synchronous metastatic breast cancer in a husband and wife. Kerin MJ, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):50

Uncommon presentation of mammary myofibroblastoma [see comments] Hamele–Bena D, et al. **Mod Pathol** 1996 Jul; 9(7):786–90. Comment in: Mod Pathol 1997 Mar;10(3):270–2.

Male breast cancer. Winchester DJ. **Semin Surg Oncol** 1996 Sep–Oct;12(5):364–9 (58 ref.)

Male inflammatory breast cancer. Yamamoto T, et al. **Surg Today** 1997;27(7):669–71

[Breast cancer in men. The clinico–therapeutic considerations] Angelescu N, et al. **Chirurgia (Bucur)** 1997 May–Jun;92(3):155–8 **(Rum)**

[Breast cancer in men] Palade R, et al. **Chirurgia (Bucur)** 1997 May–Jun;92(3):159–65 (Eng. Abstr.) **(Rum)**

DRUG THERAPY

Intra–arterial infusion chemotherapy in the treatment of locally advanced breast cancer. Cakmakli S, et al. **Acta Oncol** 1997;36(5):489–92

[Contamination of cytapheresis by tumor cells: apropos of 39 breast cancer cases] Mozziconacci MJ, et al. **Bull Cancer** 1996 Aug;83(8):649–53 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Occupational exposure to magnetic fields in relation to male breast cancer and testicular cancer: a Swedish case–control study. Stenlund C, et al. **Cancer Causes Control** 1997 Mar; 8(2):184–91

Male breast cancer: statistical and clinical data for the Maltese population [letter] Grixti M, et al. **Eur J Cancer** 1996 Jul; 32A(8):1435–6

Risk of endometrial and breast cancer in patients with diabetes mellitus. Weiderpass E, et al. **Int J Cancer** 1997 May 2;71(3):360–3

[Male breast cancer in Africa, Apropos of 5 cases at the Ouagadougou University Teaching Hospital (Burkina Faso)] Sano D, et al. **Bull Cancer** 1997 Feb;84(2):175–7 (Eng. Abstr.) **(Fre)**

GENETICS

Mutation analysis of BRCA1 and BRCA2 in a male breast cancer population. Friedman LS, et al. **Am J Hum Genet** 1997 Feb;60(2):313–9

Hereditary predisposition to breast cancer. Stratton MR, et al. **Curr Opin Genet Dev** 1996 Feb;6(1):93–7 (29 ref.)

German family study on hereditary breast–ovarian cancer. Hamann U, et al. **J Med Genet** 1996 Aug;33(8):633–5

The 12 base pair duplication/insertion alteration could be a regulatory mutation. Robledo M, et al. **J Med Genet** 1997 Jul;34(7):592–3

A large multisite cancer family is linked to BRCA2. Tonin P, et al. **J Med Genet** 1995 Dec;32(12):982–4

Interaction of breast cancer and melanoma genotypes [letter] Hemminki K, et al. **Lancet** 1997 Sep 27;350(9082):931–2

ras and p53 genes in male breast cancer. Dawson PJ, et al. **Mod Pathol** 1996 Apr;9(4):367–70

Functional and structural analysis of R607Q and R608K androgen receptor substitutions associated with male breast cancer. Poujol N, et al. **Mol Cell Endocrinol** 1997 Jun 20; 130(1–2):43–51

p53 gene mutation in relation to p53 protein accumulation in male and female breast cancer. Nayak BK, et al. **Neoplasma** 1996;43(5):305–10

Genetic susceptibility to breast and ovarian cancer. Skolnick MH, et al. **Pathol Biol (Paris)** 1997 Mar;45(3):245–9 (27 ref.)

Male breast cancer in patients with a familial history of breast cancer. Akashi–Tanaka S, et al. **Surg Today** 1996; 26(12):975–9

METABOLISM

5–fluorouracil kinetics in the interstitial tumor space: clinical response in breast cancer patients. Müller M, et al. **Cancer Res** 1997 Jul 1;57(13):2598–601

Aromatase and steroid receptors in gynecomastia and male breast carcinoma: an immunohistochemical study. Sasano H, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3063–7

MORTALITY

Carcinoma of the male breast: analysis of prognosis compared with matched female patients. Borgen PI, et al. **Ann Surg Oncol** 1997 Jul–Aug;4(5):385–8

PATHOLOGY

Metastases to the breast from extramammary neoplasms. A report of six cases with diagnosis by fine needle aspiration cytology. Domanski HA. **Acta Cytol** 1996 Nov–Dec; 40(6):1293–300

Extramedullary plasmacytoma. Fine needle aspiration findings. Kumar PV, et al. **Acta Cytol** 1997 Mar–Apr; 41(2):364–8

The hybrid epidermoid and apocrine cyst. A combination of apocrine hidrocystoma and epidermal inclusion cyst. Andersen WK, et al. **Am J Dermatopathol** 1996 Aug; 18(4):364–6

Breast involvement by extranodal Rosai–Dorfman disease: report of seven cases. Green I, et al. **Am J Surg Pathol** 1997 Jun;21(6):664–8

Paget's disease of the male breast. Desai DC, et al. **Am Surg** 1996 Dec;62(12):1068–72 (32 ref.)

The usefulness of technetium–99m–MIBI scintimammography in diagnosis of breast cancer: using surgical histopathologic diagnosis as the gold standard. Chen SL, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1695–8

Male breast cancer: pathological and immunohistochemical features. Willsher PC, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2335–8

Relationship between CA 15–3 serum levels and disease extent in predicting overall survival of breast cancer patients with newly diagnosed metastatic disease. Tampellini M, et al. **Br J Cancer** 1997;75(5):698–702

Male breast cancer: an 11 year review of 66 patients. McLachlan SA, et al. **Breast Cancer Res Treat** 1996; 40(3):225–30

Laterality of breast cancer in the United States. Weiss HA, et al. **Cancer Causes Control** 1996 Sep;7(5):539–43

Imaging characteristics of giant myofibroblastoma of the breast diagnosed by ultrasound–guided core biopsy. Miller JA, et al. **J Clin Ultrasound** 1997 Sep;25(7):395–7

Myofibroblastoma: an unusual breast lump. Khamis KA, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):421–2

Pituitary adenoma and bilateral male breast cancer: an unusual association. Volm MD, et al. **J Surg Oncol** 1997 Jan;64(1):74–8

ras and p53 genes in male breast cancer. Dawson PJ, et al. **Mod Pathol** 1996 Apr;9(4):367–70

Uncommon presentation of mammary myofibroblastoma [see comments] Hamele–Bena D, et al. **Mod Pathol** 1996 Jul; 9(7):786–90. Comment in: Mod Pathol 1997 Mar;10(3):270–2.

Fine needle aspiration of myofibroblastoma of the breast. Case report. Negri S, et al. **Pathologica** 1995 Dec; 87(6):719–22

Fine needle aspiration cytology in male breast carcinoma. Slavin JL, et al. **Pathology** 1996 May;28(2):122–4

[Breast carcinoma in the man. Current results from the viewpoint of clinic and pathology] Prechtel K, et al. **Pathologe** 1997 Jan;18(1):45–52 (Eng. Abstr.) **(Ger)**

[Male breast cancer. Histochemical and flow cytometry analysis of 6 cases] Galasso MG, et al. **Pathologica** 1995 Oct;87(5):503–5 (Eng. Abstr.) **(Ita)**

[Non Hodgkin's lymphoma of the breast] Nowara E, et al. **Przegl Lek** 1995;52(10):526–8 (Eng. Abstr.) **(Pol)**

RADIOGRAPHY

Mammography in men with breast cancer: review of the mammographic findings in five cases. Tükel S, et al. **Australas Radiol** 1996 Nov;40(4):387–90

Myofibroblastoma of male breast: report of three cases and review of the literature. Pina L, et al. **Eur Radiol** 1997; 7(6):931–4 (38 ref.)

Breast imaging case of the day. Infiltrating ductal carcinoma, moderately well–differentiated. Hendrix TM, et al. **Radiographics** 1996 Mar;16(2):452–5

RADIONUCLIDE IMAGING

The usefulness of technetium–99m–MIBI scintimammography in diagnosis of breast cancer: using surgical histopathologic diagnosis as the gold standard. Chen SL, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1695–8

99Tcm–tetrofosmin scintigraphy in the evaluation of palpable breast masses. Adalet I, et al. **Nucl Med Commun** 1997 Feb; 18(2):118–21

SECONDARY

Metastases to the breast from extramammary neoplasms. A report of six cases with diagnosis by fine needle aspiration cytology. Domanski HA. **Acta Cytol** 1996 Nov–Dec; 40(6):1293–300

[A case of male breast metastasis from adenocarcinoma of the colon] Bruscagnin A. **Radiol Med (Torino)** 1997 Apr; 93(4):463–4 **(Ita)**

SURGERY

Ductal carcinoma in situ of the male breast. Analysis of 31 cases [see comments] Cutuli B, et al. **Eur J Cancer** 1997 Jan;33(1):35–8 (44 ref.). Comment in: Eur J Cancer 1997 Jan;33(1):10–1.

[Experience in the treatment of breast sarcomas] Farkas E, et al. **Orv Hetil** 1997 Jan 26;138(4):195–8 (Eng. Abstr.) **(Hun)**

[Approach to male breast cancer. Our experience] Lemma F, et al. **Minerva Chir** 1997 Jun;52(6):847–9 (Eng. Abstr.) **(Ita)**

THERAPY

Male breast cancer: an 11 year review of 66 patients. McLachlan SA, et al. **Breast Cancer Res Treat** 1996; 40(3):225–30

Incidence and treatment of ductal carcinoma in situ of the breast [editorial; comment] Silverstein MJ. **Eur J Cancer** 1997 Jan;33(1):10–1. Comment on: Eur J Cancer 1997 Jan;33(1):35–8.

BREAST NEOPLASMS, MALE

Male breast cancer. Winchester DJ. **Semin Surg Oncol** 1996 Sep–Oct;12(5):364–9 (58 ref.)

ULTRASONOGRAPHY

Mammography in men with breast cancer: review of the mammographic findings in five cases. Tükel S, et al. **Australas Radiol** 1996 Nov;40(4):387–90

Breast imaging case of the day. Infiltrating ductal carcinoma, moderately well–differentiated. Hendrix TM, et al. **Radiographics** 1996 Mar;16(2):452–5

VIROLOGY

Breast cancer in a man with human immunodeficiency virus infection. Widrick P, et al. **Mayo Clin Proc** 1997 Aug; 72(8):761–4 (21 ref.)

BREAST PROSTHESIS, INTERNAL see **BREAST IMPLANTS**

BREAST RECONSTRUCTION see **MAMMAPLASTY**

BREAST SELF–EXAMINATION

Evaluation of the general practice program of women education for breast self–examination. Katić M, et al. **Acta Med Croatica** 1996;50(4–5):185–91

Breast self examination: should general practice bother? Vafiadis P. **Aust Fam Physician** 1997 Jan;26 Suppl 1:S41–6 (45 ref.)

Breast self–examination and survival from breast cancer: a prospective follow–up study. Auvinen A, et al. **Breast Cancer Res Treat** 1996;38(2):161–8

Breast cancer mortality in relation to self–reported use of breast self–examination. A cohort study of 450,000 women. Holmberg L, et al. **Breast Cancer Res Treat** 1997 Apr; 43(2):137–40

Breast pain causes noncompliance with mammography and self–examination [letter; comment] Porter–Steele N. **Can Med Assoc J** 1996 Sep 15;155(6):632–3. Comment on: Can Med Assoc J 1996 May 1;154(9):1353–5.

A peer education model for teaching breast self–examination to undergraduate college women. Maurer F. **Cancer Nurs** 1997 Feb;20(1):49–61

Increasing mammography and breast self–examination in African American women using the Witness Project model. Erwin DO, et al. **J Cancer Educ** 1996 Winter;11(4):210–5

Using standardized patients to teach breast evaluation to sophomore medical students. Heard JK, et al. **J Cancer Educ** 1995 Winter;10(4):191–4

Reflections on breast self–examination [editorial; comment] Baines CJ. **J Natl Cancer Inst** 1997 Mar 5;89(5):339–40. Comment on: J Natl Cancer Inst 1997 Mar 5;89(5):355–65.

Randomized trial of breast self–examination in Shanghai: methodology and preliminary results [see comments] Thomas DB, et al. **J Natl Cancer Inst** 1997 Mar 5; 89(5):355–65. Comment in: J Natl Cancer Inst 1997 Mar 5;89(5):339–40.

Readability of breast self–exam literature [letter] Behan BA, et al. **Nurse Pract** 1997 Jun;22(6):12–6, 18

A randomized trial on breast self–examination in Faenza (northern–Italy). Ferro S, et al. **Tumori** 1996 Jul–Aug; 82(4):328–34

[How to examine your breast (letter)] Conrad CG, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2571–2 **(Dan)**

[Preliminary results of the Russia (St.Petersburg)/WHO program for the evaluation of the effectiveness of breast self–examination] Semiglazov VF, et al. **Vopr Onkol** 1996; 42(4):49–55 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Perceived risk, anxiety, mammogram uptake, and breast self–examination of women with a family history of breast cancer: the role of knowing to be at increased risk. Drossaert CC, et al. **Cancer Detect Prev** 1996;20(1):76–85

Health beliefs of rural Appalachian women and the practice of breast self–examination. Sortet JP, et al. **Cancer Nurs** 1997 Aug;20(4):231–5

Social support and breast self–examination. Wagle A, et al. **Cancer Nurs** 1997 Feb;20(1):42–8

Breast self–care practices in women with primary relatives with breast cancer. Chalmers KI, et al. **J Adv Nurs** 1996 Jun;23(6):1212–20

Breast self–examination: an analysis of self–reported practice. Persson K, et al. **J Adv Nurs** 1997 May;25(5):886–92

STANDARDS

Breast self–examination proficiency in older women: measuring the efficacy of video self–instruction kits. Wood RY. **Cancer Nurs** 1996 Dec;19(6):429–36

STATISTICS & NUMERICAL DATA

Improving breast self–examination compliance: a Southwest Oncology Group randomized trial of three interventions. Strickland CJ, et al. **Prev Med** 1997 May–Jun;26(3):320–32

BREAST XERORADIOGRAPHY see **XEROMAMMOGRAPHY**

BREATH TESTS

Diagnosing ethanol toxicity [letter; comment] Watson WA, et al. **Acad Emerg Med** 1996 Jul;3(7):728–9. Comment on: Acad Emerg Med 1996 Jan;3(1):85–7.

The effect of long–term omeprazole on the glucose–hydrogen breath test in elderly patients. Hutchinson S, et al. **Age Ageing** 1997 Mar;26(2):87–9

Gender and alcohol dosing: a procedure for producing comparable breath alcohol curves for men and women. Breslin FC, et al. **Alcohol Clin Exp Res** 1997 Aug; 21(5):928–30

Endogenous production of methanol after the consumption of fruit. Lindinger W, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):939–43

The influence of isolated doses of drugs, feeding and colonic bacterial ureolysis on urea breath test results. Perri F, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):705–9

Investigation of organic vapor losses to condensed water vapor in Tedlar bags used for exhaled–breath sampling. Groves WA, et al. **Am Ind Hyg Assoc J** 1996 Mar; 57(3):257–63

Lansoprazole and ranitidine affect the accuracy of the 14C–urea breath test by a pH–dependent mechanism. Chey WD, et al. **Am J Gastroenterol** 1997 Mar;92(3):446–50

Proton pump inhibitors and the urea breath test: how long is long enough? [letter; comment] Chey WD. **Am J Gastroenterol** 1997 Apr;92(4):720–1. Comment on: Am J Gastroenterol 1996 Oct;91(10):2120–4.

Influence of a methanogenic flora on the breath H2 and symptom response to ingestion of sorbitol or oat fiber. Kajs TM, et al. **Am J Gastroenterol** 1997 Jan;92(1):89–94

13C–urea breath test for Helicobacter pylori: a second look analysis [letter; comment] Pattison CP, et al. **Am J Gastroenterol** 1996 Nov;91(11):2447–9. Comment on: Am J Gastroenterol 1996 Apr;91(4):690–4.

Lanzoprazole and ranitidine affect the accuracy of the 14C–urea breath test by a pH–dependent mechanism [letter] Stermer E, et al. **Am J Gastroenterol** 1997 Sep;92(9):1575–6

Ventilatory effects of the single–breath CO2 test, compared with eructation, in cattle. Rollin F, et al. **Am J Vet Res** 1997 Mar;58(3):310–6

37 kBq 14C–urea breath test and gastric biopsy analyses of H. pylori infection. Allardyce RA, et al. **Aust N Z J Surg** 1997 Jan;67(1):31–4

Endogenous nitric oxide in exhaled human breath. A new means of monitoring airway disease activity or another no–no? [editorial; comment] Brett SJ, et al. **Chest** 1996 Oct; 110(4):873–4. Comment on: Chest 1996 Oct;110(4):930–8.

Origins of breath nitric oxide in humans [see comments] Dillon WC, et al. **Chest** 1996 Oct;110(4):930–8. Comment in: Chest 1996 Oct;110(4):873–4.

Exhaled pentane levels in acute asthma. Olopade CO, et al. **Chest** 1997 Apr;111(4):862–5

Spirometric testing and the breathalyser [letter] Wigmore JG, et al. **CMAJ** 1997 Sep 1;157(5):510

Noninvasive determination of cardiac output using single breath CO2 analysis. Arnold JH, et al. **Crit Care Med** 1996 Oct;24(10):1701–5

Follow–up of celiac disease with D–xylose breath test. Casellas F, et al. **Dig Dis Sci** 1996 Oct;41(10):2106–11

Improvement in specificity of [14C]d–xylose breath test for bacterial overgrowth. Lewis SJ, et al. **Dig Dis Sci** 1997 Aug;42(8):1587–92

Comparison of scintigraphy and lactulose breath hydrogen test for assessment of orocecal transit: lactulose accelerates small bowel transit. Miller MA, et al. **Dig Dis Sci** 1997 Jan;42(1):10–8

Reliability and reproducibility of breath hydrogen and methane in male diabetic subjects. Minocha A, et al. **Dig Dis Sci** 1997 Mar;42(3):672–6

Validity of a novel biopsy urease test (HUT) and a simplified 13C–urea breath test for diagnosis of Helicobacter pylori infection and estimation of the severity of gastritis. Labenz J, et al. **Digestion** 1996 Nov–Dec;57(6):391–7

Measured breath. Blaser L. **Environ Health Perspect** 1996 Dec;104(12):1292–4

Alveolar breath sampling and analysis to assess trihalomethane exposures during competitive swimming training. Lindstrom AB, et al. **Environ Health Perspect** 1997 Jun;105(6):636–42

Breath measurements as volatile organic compound biomarkers. Wallace L, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:861–9

The 13C–mixed triglyceride breath test in healthy adults: determinants of the 13CO2 response. Kalivianakis M, et al. **Eur J Clin Invest** 1997 May;27(5):434–42

Evaluation of oro–coecal transit time: a comparison of the lactose–[13C, 15N]ureide 13CO2– and the lactulose H2–breath test in humans. Wutzke KD, et al. **Eur J Clin Nutr** 1997 Jan;51(1):11–9

The breath test—a call for more regional use. Heaney A, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):693–6

Significance of the 14C–urea breath test in the determination of the location infected by Helicobacter pylori in the alimentary canal. Kopański Z, et al. **Eur J Med Res** 1997 Mar 24;2(3):136–8

In vivo stable isotope studies in three patients affected with mitochondrial fatty acid oxidation disorders: limited diagnostic use of 1–13C fatty acid breath test using bolus technique. Jakobs C, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S78–82

Increased hydrogen peroxide and thiobarbituric acid–reactive products in expired breath condensate of asthmatic patients. Antczak A, et al. **Eur Respir J** 1997 Jun;10(6):1235–41

Exhaled and nasal nitric oxide measurements: recommendations. The European Respiratory Society Task Force. Kharitonov S, et al. **Eur Respir J** 1997 Jul; 10(7):1683–93 (75 ref.)

Increased content of hydrogen peroxide in the expired breath of cigarette smokers. Nowak D, et al. **Eur Respir J** 1996 Apr;9(4):652–7

[13C]octanoic acid breath test for gastric emptying of solids: accuracy, reproducibility, and comparison with scintigraphy. Choi MG, et al. **Gastroenterology** 1997 Apr; 112(4):1155–62

Metabolism and disposition of difluoromethane (HFC32) in the mouse. Ellis MK, et al. **Hum Exp Toxicol** 1996 Jul; 15(7):592–6

Comparison of single breath and steady state methods for measurement of lung transfer factor for CO in normal subjects and smokers. Mahajan KK, et al. **Indian J Physiol Pharmacol** 1996 Jul;40(3):267–70

Monitoring fluid absorption using 1% ethanol–tagged glycine during operative hysteroscopy. Molnar BG, et al. **J Am Assoc Gynecol Laparosc** 1997 May;4(3):357–62

Vapor–alcohol control tests with compressed ethanol–gas mixtures: scientific basis and actual performance. Dubowski KM, et al. **J Anal Toxicol** 1996 Oct;20(6):484–91

Evaluation of 13CO2 breath tests for the detection of fructose malabsorption. Hoekstra JH, et al. **J Lab Clin Med** 1996 Mar;127(3):303–9

Methodological validation and clinical usefulness of carbon–14–urea breath test for documentation of presence and eradication of Helicobacter pylori infection. Desroches JJ, et al. **J Nucl Med** 1997 Jul;38(7):1141–5

CO2 concentrations in the environment of sleeping infants [letter; comment] Ryan EL. **J Paediatr Child Health** 1995 Dec;31(6):565–7. Comment on: J Paediatr Child Health 1995 Jun;31(3):258–9.

H2–breath tests—importance of adequate storage of breath samples [letter; comment] Bodamer OA, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):450–1. Comment on: J Pediatr Gastroenterol Nutr 1996 Feb;22(2):144–7.

The 13C–octanoic acid breath test: a noninvasive technique to assess gastric emptying in preterm infants. Veereman–Wauters G, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):111–7

Driving under the influence of acetone [letter] Jones AW. **J Toxicol Clin Toxicol** 1997;35(4):419–21

From the Food and Drug Administration. Nightingale SL. **JAMA** 1996 Dec 4;276(21):1710

Pulmonary capacity in lung cancer patients prior to lung resection—comparison of the unilateral pulmonary artery occlusion test with expired gas analysis during exercise testing. Nagamatsu Y, et al. **Kurume Med J** 1996; 43(4):273–7

Intravenous nitrate vasodilators and exhaled nitric oxide [letter] Marczin N, et al. **Lancet** 1997 Jun 14;349(9067):1742

Breath alcohol concentrations in men 7–8 hours after prolonged, heavy drinking: influence of habitual alcohol intake [letter] Wright NR. **Lancet** 1997 Jan 18;349(9046):182

14C–urea breath test: a useful non–invasive test in the diagnosis of Helicobacter pylori infection. Goh KL, et al. **Med J Malaysia** 1995 Sep;50(3):208–11

Nitric oxide in exhaled air is a new marker of airway inflammation. Kharitonov SA, et al. **Monaldi Arch Chest Dis** 1996 Dec;51(6):533–7 (50 ref.)

The 13C urea breath test to assess Helicobacter pylori infection in school children. Dore SP, et al. **Natl Med J India** 1997 Mar–Apr;10(2):57–60

Smoking in pregnancy, exhaled carbon monoxide, and birth weight. Secker–Walker RH, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):648–53

Usefulness of the 14C urea breath test as a semi–quantitative monitoring instrument after therapy for Helicobacter pylori infection. van de Wouw BA, et al. **Scand J Gastroenterol** 1997 Feb;32(2):112–7

The use of ethanol as a marker to detect and quantify the absorption of irrigation fluid during transurethral resection of the prostate. Hjertberg H. **Scand J Urol Nephrol Suppl** 1996;178:1–64 (180 ref.)

End–expiratory carbon monoxide levels as an estimate of passive smoking exposure aboard a nuclear–powered submarine [see comments] Seufert KT, et al. **South Med J** 1996 Dec;89(12):1181–3. Comment in: South Med J 1997 Aug;90(8):863.

Estimation of fluid absorption by using the area under the curve for ethanol in expired air. Hahn RG. **Urol Int** 1997; 58(1):25–9

Assessment of the influence of hydrogen nonexcretion on the usefulness of the hydrogen breath test and lactose tolerance test. Hammer HF, et al. **Wien Klin Wochenschr** 1996;108(5):137–41

Monitoring pancreatin supplementation in cystic fibrosis patients with the 13C–Hiolein breath test: evidence for normalized fat assimilation with high dose pancreatin therapy. Braden B, et al. **Z Gastroenterol** 1997 Feb; 35(2):123–9

[Calculation of lavage volume in transurethral prostate resection (TURP)] Zink M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Apr; 32(4):219–25 (Eng. Abstr.) **(Ger)**

[The H2 breath test] Caspary WF.
Dtsch Med Wochenschr 1997 Aug 22;122(34–35):1058 **(Ger)**

[Differentiated characterization of pulmonary diffusion] Dörp E, et al. **Pneumologie** 1997 Apr;51 Suppl 2:460–2 (Eng. Abstr.) **(Ger)**

[Semi-quantitative diagnosis of the degree of emphysema from CO2 expirograms] Smidt U. **Pneumologie** 1997 Jan; 51(1):55–9 (Eng. Abstr.) **(Ger)**

[Breath tests in intestinal diseases and functional gastrointestinal diagnosis] Lembcke B.
Schweiz Rundsch Med Prax 1997 Jun 18;86(25–26):1060–7 (10 ref.) (Eng. Abstr.) **(Ger)**

[Measuring breath alcohol levels] Varga M, et al.
Orv Hetil 1997 Aug 24;138(34):2117–20 (45 ref.) (Eng. Abstr.) **(Hun)**

[13C-acetate breath test for the measurement of gastric emptying rates] Urita Y, et al. **Kaku Igaku** 1996 Oct; 33(10):1083–90 (Eng. Abstr.) **(Jpn)**

[Gas chromatographic analysis of lipids in exhaled air condensate in children with bronchopulmonary diseases] Iatsenko VP, et al. **Klin Lab Diagn** 1997 Apr;(4):16–7 (Eng. Abstr.) **(Rus)**

[Methods of measuring lipid peroxidation products in exhaled air condensate and their clinical significance] Khyshiktuev BS, et al. **Klin Lab Diagn** 1996 May–Jun;(3):13–5 (Eng. Abstr.) **(Rus)**

[Lipids in the exhaled air condensate of pneumonia patients] Komar SI, et al. **Klin Lab Diagn** 1996 Nov–Dec;(6):24–7 (Eng. Abstr.) **(Rus)**

[Capnography in the detection of partial extubation (letter)] Ortiz JR, et al. **Rev Esp Anestesiol Reanim** 1996 Jan; 43(1):45–6 **(Spa)**

[Breath test in the diagnosis of Helicobacter pylori infection: concordance with histological methods and correlation with anatomopathological lesions of the gastric mucosa] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Apr; 88(4):259–64 (Eng. Abstr.) **(Spa)**

[Uptake of the irrigating fluid during surgical endoscopy. Measure the absorption by ethanol indication] Hahn R.
Lakartidningen 1997 Feb 5;94(6):440–3 (33 ref.) **(Swe)**

INSTRUMENTATION

Prototype instrument employing a microsensor array for the analysis of organic vapors in exhaled breath. Groves WA, et al. **Am Ind Hyg Assoc J** 1996 Dec;57(12):1103–8

Interfering substances identified in the breath of drinking drivers with Intoxilyzer 5000S. Jones AW.
J Anal Toxicol 1996 Nov–Dec;20(7):522–7

Comparison of face mask, head hood, and canopy for breath sampling in flow-through indirect calorimetry to measure oxygen consumption and carbon dioxide production of preterm infants < 1500 grams. Bauer K, et al.
Pediatr Res 1997 Jan;41(1):139–44

[Discrepancies between police breath alcohol measurements in a field trial and blood alcohol concentration according to BGA guidelines and possible consequences for citizens] Schütz H, et al. **Arch Kriminol** 1997 Mar–Apr; 199(3–4):103–8 (Eng. Abstr.) **(Ger)**

[Semiquantitative capnometry—helpful in verification of tube position in trauma patients?] Helm M, et al.
Unfallchirurg 1996 Jan;99(1):11–6 (Eng. Abstr.) **(Ger)**

[A new colorimetric CO2 indicator Colibri] Nishiyama T, et al. **Masui** 1996 Jun;45(6):763–5 (Eng. Abstr.) **(Jpn)**

METHODS

Nitric oxide from the human respiratory tract efficiently quantified by standardized single breath measurements. Högman M, et al. **Acta Physiol Scand** 1997 Apr; 159(4):345–6

Marked flow-dependence of exhaled nitric oxide using a new technique to exclude nasal nitric oxide. Silkoff PE, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):260–7

L-[1-(13)C] Phenylalanine oxidation as a measure of hepatocyte functional capacity in end-stage liver disease. Burke PA, et al. **Am J Surg** 1997 Apr;173(4):270–3; discussion 273–4

Concentrating breath samples using liquid nitrogen: a reliable method for the simultaneous determination of ethane and pentane. Knutson MD, et al. **Anal Biochem** 1996 Nov 1; 242(1):129–35

Method for the collection and assay of volatile organic compounds in breath. Phillips M. **Anal Biochem** 1997 May 1;247(2):272–8

Solid-phase microextraction for the analysis of human breath. Grote C, et al. **Anal Chem** 1997 Feb 15;69(4):587–96

The selected ion flow tube (SIFT)—a novel technique for biological monitoring. Spaněl P, et al. **Ann Occup Hyg** 1996 Dec;40(6):615–26

Exhaled human breath measurement method for assessing exposure to halogenated volatile organic compounds. Pleil JD, et al. **Clin Chem** 1997 May;43(5):723–30

Do patients need to fast for a 13C-urea breath test? Moayyedi P, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):275–7

Breath tests: concepts, applications and limitations. Rating D, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S18–23 (9 ref.)

Quantitative breath testing does not predict the presence of peptic ulcer disease [letter] Lewis JD, et al.
Gastrointest Endosc 1997 Jul;46(1):94

Number of breath samples required for detection of lactose intolerance by lactose hydrogen breath test [letter] Rana S, et al. **Indian J Gastroenterol** 1997 Jul;16(3):118

Biological monitoring of occupational exposure to isoflurane by measurement of isoflurane exhaled breath. Prado C, et al. **J Appl Toxicol** 1997 May–Jun;17(3):179–83

Simple 13C-urea breath test with infra-red spectrophotometer. Taniguchi Y, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:37–40

Alteration of bile acid metabolism by cimetidine in healthy humans. Shindo K, et al. **J Investig Med** 1996 Oct; 44(8):462–9

Carbon-14-urea breath test: a cautionary note [letter] Warwick T. **J Nucl Med** 1996 Nov;37(11):1916

New approach to 13C-urea breath test: capsule-based modification with low-dose of 13C-urea in the diagnosis of Helicobacter pylori infection. Bielański W, et al.
J Physiol Pharmacol 1996 Sep;47(3):545–53

Quantitative analysis of ammonia on the breath of patients in end-stage renal failure. Davies S, et al. **Kidney Int** 1997 Jul;52(1):223–8

Selected ion flow tube: a technique for quantitative trace gas analysis of air and breath. Spaněl P, et al.
Med Biol Eng Comput 1996 Nov;34(6):409–19

13C-urea breath test in Helicobacter pylori diagnosis and eradication. Correlation to histology, origin of 'false' results, and influence of food intake. Epple HJ, et al.
Scand J Gastroenterol 1997 Apr;32(4):308–14

Breath hydrogen (H2) analysis in southern Chinese children and infants by gas chromatography and a novel automatic sampling system. Wong FH, et al. **Singapore Med J** 1996 Feb;37(1):72–81

Nasal contribution to exhaled nitric oxide during exhalation against resistance or during breath holding. Kharitonov SA, et al. **Thorax** 1997 Jun;52(6):540–4

Detection of ketosis in dairy cows by analysis of exhaled breath. Dobbelaar P, et al. **Vet Q** 1996 Dec;18(4):151–2

13C-starch breath test—comparative clinical evaluation of an indirect pancreatic function test. Löser C, et al.
Z Gastroenterol 1997 Mar;35(3):187–94

[Breath condensate as a method of noninvasive assessment of inflammation mediators from the lower airways] Becher G, et al. **Pneumologie** 1997 Apr;51 Suppl 2:456–9 (Eng. Abstr.) **(Ger)**

[Methodological study of 13C-urea breath test for detection of Helicobacter pylori infection] Ohara S, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Aug;93(8):530–6 (Eng. Abstr.) **(Jpn)**

[Effect of acute intestinal obstruction on infrared systems for measuring anesthetic gases (letter)] Martinéz A, et al.
Rev Esp Anestesiol Reanim 1996 Feb;43(2):74 **(Spa)**

BREATHALYZER TESTS see **BREATH TESTS**

BREATHING see **RESPIRATION**

BREATHING EXERCISES

see related
YOGA

Reduced nocturnal asthma by improved nasal breathing. Petruson B, et al. **Acta Otolaryngol (Stockh)** 1996 May; 116(3):490–2

Emission of extremely strong magnetic fields from the head and whole body during oriental breathing exercises. Hisamitsu T, et al. **Acupunct Electrother Res** 1996 Jul–Dec; 21(3–4):219–27

Comparisons of pain relief mechanisms between needling to the muscle, static magnetic field, external qigong and needling to the acupuncture point. Takeshige C, et al.
Acupunct Electrother Res 1996 Apr–Jun;21(2):119–31

Intermittent inspiratory muscle training induces fiber hypertrophy in rat diaphragm. Bisschop A, et al.
Am J Respir Crit Care Med 1997 May;155(5):1583–9

The effects of breathing pattern training on ventilatory function in patients with COPD. Estève F, et al.
Biofeedback Self Regul 1996 Dec;21(4):311–21

Interoceptive exposure versus breathing retraining within cognitive-behavioural therapy for panic disorder with agoraphobia. Craske MG, et al. **Br J Clin Psychol** 1997 Feb;36 (Pt 1):85–99

The efficiency of respiratory muscle strengthening training programs in pilots. Ji S, et al. **Chin Med J (Engl)** 1996 Dec;109(12):930–2

Quantitative research for improving respiratory muscle contraction by breathing exercise. Yan Q, et al.
Chin Med J (Engl) 1996 Oct;109(10):771–5

Evaluation of the THRESHOLD trainer for inspiratory muscle endurance training: comparison with the weighted plunger method. Johnson PH, et al. **Eur Respir J** 1996 Dec; 9(12):2681–4

Inspiratory muscle training in chronic airflow limitation: effect on exercise performance. Lisboa C, et al.
Eur Respir J 1997 Mar;10(3):537–42

Pranayama increases grip strength without lateralized effects. Raghuraj P, et al. **Indian J Physiol Pharmacol** 1997 Apr; 41(2):129–33

Training improves endothelium-dependent vasodilation in resistance vessels of patients with heart failure. Katz SD, et al. **J Appl Physiol** 1997 May;82(5):1488–92

Influence of breathing therapy on complaints, anxiety and breathing pattern in patients with hyperventilation syndrome and anxiety disorders. Han JN, et al.
J Psychosom Res 1996 Nov;41(5):481–93

The effect of incentive spirometry and inspiratory muscle training on pulmonary function after lung resection. Weiner P, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):552–7

Mindfulness meditation-based stress reduction: experience with a bilingual inner-city program [published erratum appears in Nurse Pract 1997 May;22(5):215] Roth B, et al. **Nurse Pract** 1997 Mar;22(3):150–2, 154, 157 passim

Voluntary control of breathing pattern in asthmatic children. Blanc-Gras N, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1384–6

Inspiratory muscle training in patients with chronic heart failure awaiting cardiac transplantation: results of a pilot clinical trial. Cahalin LP, et al. **Phys Ther** 1997 Aug; 77(8):830–8

Bottle-blowing in hospital-treated patients with community-acquired pneumonia. Björkqvist M, et al.
Scand J Infect Dis 1997;29(1):77–82

[Influence of different combination of mental activity and respiratory cycle on heart rate variability] Sun FL, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):153–5 (Eng. Abstr.) **(Chi)**

[Favorable effects of breathing and relaxation instructions in heart rehabilitation: a randomized 5-year follow-up study] van Dixhoorn J. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):530–4 (Eng. Abstr.) **(Dut)**

[Studies on the use of music therapy as a form of breathing exercise in bronchial asthma] Janiszewski M, et al.
Pol Merkuriusz Lek 1996 Jul;1(1):32–3 (Eng. Abstr.) **(Pol)**

[The use of holotropic breathing in the treatment of chronic alcoholism] Zaritskiĭ MG. **Lik Sprava** 1996 Mar–Apr; (3–4):134–6 (Eng. Abstr.) **(Rus)**

BREDA VIRUS see **TOROVIRUS**

BREECH PRESENTATION

A randomized, double blind, controlled trial of tocolysis to assist external cephalic version in late pregnancy. Chung T, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):720–4

Breech infants: vaginal or cesarean delivery? Obwegeser R, et al. **Acta Obstet Gynecol Scand** 1996 Nov;75(10):912–6

Outcome of 441 breech singleton deliveries at the Catholic Hospital, Oluyoro, Ibadan. Ilesanmi OA, et al.
Afr J Med Med Sci 1996 Mar;25(1):41–6

Breech delivery of the second twin [letter; comment] Escamilla JO. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):750–1. Comment on: Am J Obstet Gynecol 1995 Oct;173(4):1015–20.

Pregnancy outcome after successful external cephalic version for breech presentation at term. Lau TK, et al.
Am J Obstet Gynecol 1997 Jan;176(1 Pt 1):218–23 (24 ref.)

Does the use of a tocolytic agent affect the success rate of external cephalic version? Marquette GP, et al.
Am J Obstet Gynecol 1996 Oct;175(4 Pt 1):859–61

Intrapartum sonography of the lower uterine segment in patients with breech-presenting fetuses. Bruck LR, et al.
Am J Perinatol 1997 Jul;14(6):315–6

Increased incidence of fetal growth restriction in association with breech presentation in preterm deliveries < 32 weeks. Sherer DM, et al. **Am J Perinatol** 1997 Jan;14(1):35–7

Spontaneous torticollis in a breech-presenting fetus delivered by an atraumatic elective cesarean section: a case and review of the literature. Sherer DM. **Am J Perinatol** 1996 Jul;13(5):305–7 (17 ref.)

Perinatal risk factors for developmental dysplasia of the hip. Chan A, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar; 76(2):F94–100

The problem of relating fetal outcome with breech presentation to mode of delivery. Koike T, et al.
Arch Gynecol Obstet 1996;258(3):119–23

Long-term outcome by method of delivery of fetuses in breech presentation. Evaluation should have included long-term follow up of the mothers [letter; comment] Barrett G, et al. **BMJ** 1996 Sep 28;313(7060):817; discussion 818. Comment on: BMJ 1996 Jun 8;312(7044):1451–3.

Long-term outcome by method of delivery of fetuses in breech presentation. External cephalic version at term should be considered [letter; comment] Bhal PS, et al. **BMJ** 1996 Sep 28;313(7060):817; discussion 818. Comment on: BMJ 1996 Jun 8;312(7044):1451–3.

Long-term outcome by method of delivery of fetuses in breech presentation. Outcomes of breech presentations not diagnosed until labour need to be studied [letter; comment] Vause S. **BMJ** 1996 Sep 28;313(7060):817; discussion 818 . Comment on: BMJ 1996 Jun 8;312(7044):1451–3.

Long term outcome by method of delivery of fetuses in breech presentation. Policy of planned caesarean section could have appreciable costs [letter; comment] West J. **BMJ** 1996 Sep 28;313(7060):817; discussion 818. Comment on: BMJ 1996 Jun 8;312(7044):1451–3.

MRCOG. External cephalic version. Harrold A, et al.
Br J Hosp Med 1997 Feb 19–Mar 4;57(4):157–9

The management of breech presentation. Saunders NJ.
Br J Hosp Med 1996 Nov 6–19;56(9):456–8

Small bowel injury in gastroschisis: relation to fetal presentation. Bagley JS, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):1047–8

External cephalic version at term: a survey of consultant obstetric practice in the United Kingdom and Republic of Ireland. Coltart T, et al. **Br J Obstet Gynaecol** 1997

May;104(5):544–7
Introducing external cephalic version at 36 weeks or more in a district general hospital: a review and an audit. Healey M, et al. **Br J Obstet Gynaecol** 1997 Sep;104(9):1073–9
Primitive reflexes and the determination of fetal presentation at birth. Bartlett D, et al. **Early Hum Dev** 1997 May 28; 48(3):261–73
A comparative study on breech deliveries attended in 1992: hospital centers from Latin America versus Spain and Portugal. Acién P. **Eur J Obstet Gynecol Reprod Biol** 1996 Jul;67(1):9–15
The impact of external cephalic version on the rate of vaginal and cesarean breech deliveries: a 3–year cumulative experience. Ben–Arie A, et al.
Eur J Obstet Gynecol Reprod Biol 1995 Dec;63(2):125–9
Breech extraction—an alternative method of delivering a deeply engaged head at cesarean section. Fong YF, et al. **Int J Gynaecol Obstet** 1997 Feb;56(2):183–4
Vaginal breech delivery or a third cesarean section for intrauterine fetal demise [letter] Al Nuaim LA, et al.
Int J Gynaecol Obstet 1996 Feb;52(2):183–4
Breech presentation. Fetal loss associated with intended vaginal delivery. Ong S, et al. **Ir J Med Sci** 1996 Oct–Dec; 165(4):263–4
Very–low–birthweight breech infants: short–term outcome by method of delivery. Görbe E, et al.
J Matern Fetal Med 1997 May–Jun;6(3):155–8
Method of delivery of the nonvertex second twin: a community hospital experience. Smith SJ, et al.
J Matern Fetal Med 1997 May–Jun;6(3):146–50
Physician– and midwife–attended home births. Effects of breech, twin, and post–dates outcome data on mortality rates. Mehl–Madrona L, et al. **J Nurse Midwifery** 1997 Mar–Apr;42(2):91–8
Outcome of external cephalic version: our experience. Teoh T. **J Obstet Gynaecol Res** 1996 Aug;22(4):389–94
Controversies: selective vaginal delivery for breech presentation. Erkkola R. **J Perinat Med** 1996;24(6):553–61 (22 ref.)
Controversies: the mature breech should be delivered by elective cesarean section. St. Saunders NJ.
J Perinat Med 1996;24(6):545–51 (20 ref.)
Neonatal retrievals from homebirths [letter; comment] Richards J, et al. **N Z Med J** 1997 Apr 25;110(1042):153; discussion 154. Comment on: N Z Med J 1997 Jan 24;110(1036):20.
External cephalic version of twin A. Bloomfield MM, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):814–5
CT and MRI characteristics of intracranial hemorrhage complicating breech and vacuum delivery. Odita JC, et al. **Pediatr Radiol** 1996 Nov;26(11):782–5
Is routine caesarean section necessary for breech–breech and breech–transverse twin gestations? Essel JK, et al.
S Afr Med J 1996 Sep;86(9 Suppl):1196–200
[The effect of the woman's age on the course of pregnancy and labor in breech presentation] Dimitrov A, et al.
Akush Ginekol (Sofiia) 1996;35(1–2):7–9 (Eng. Abstr.) **(Bul)**
[The effect of fetal maturity and the delivery method on fetal status in breech presentation] Dimitrov A, et al.
Akush Ginekol (Sofiia) 1996;35(1–2):9–11 (Eng. Abstr.) **(Bul)**
[Breech presentation, vaginal delivery or cesarean section—a review article? (letter; comment)] Krebs L, et al.
Ugeskr Laeger 1997 Apr 7;159(15):2240–1. Comment on: Ugeskr Laeger 1996 Nov 18;158(47):6752–5. **(Dan)**
[Breech delivery. Selection by X–ray pelvimetry] Krebs L, et al. **Ugeskr Laeger** 1997 Apr 28;159(18):2697–701 (Eng. Abstr.) **(Dan)**
[Term delivery in breech presentation. A registry–based study] Krebs L, et al. **Ugeskr Laeger** 1996 Nov 4; 158(45):6448–51 **(Dan)**
[Local guidelines for delivery with breech presentation. A nation–wide questionnaire] Krebs L, et al.
Ugeskr Laeger 1996 Nov 4;158(45):6452–5 (Eng. Abstr.) **(Dan)**
[Breech presentation, vaginal delivery or cesarean section? (see comments)] Vangsgaard K, et al. **Ugeskr Laeger** 1996 Nov 18;158(47):6752–5 (40 ref.) (Eng. Abstr.). Comment in: Ugeskr Laeger 1997 Apr 7;159(15):2240–1. **(Dan)**
[Term breech delivery: routine cesarean—versus—induced labor] Audra P, et al. **Contracept Fertil Sex** 1997 Feb; 25(2):I–IV **(Fre)**
[Internal version and breech extraction of the second twin. A series of 35 cases] Dufour P, et al.
J Gynecol Obstet Biol Reprod (Paris) 1996;25(6):617–22 (Eng. Abstr.) **(Fre)**
[Is the Mauriceau maneuver deleterious? Study of 103 cases (see comments] Eyraud JL, et al.
J Gynecol Obstet Biol Reprod (Paris) 1997;26(4):413–7 (Eng. Abstr.). Comment in: J Gynecol Obstet Biol Reprod (Paris) 1997 ;26(4):442. **(Fre)**
[Mauriceau's maneuver; comment] Grall JY.
J Gynecol Obstet Biol Reprod (Paris) 1997;26(4):442. Comment on: J Gynecol Obstet Biol Reprod (Paris) 1997 ;26(4):413–7. **(Fre)**
[Breech extraction of the second twin. 56 cases and review of the literature] Riethmuller D, et al.
J Gynecol Obstet Biol Reprod (Paris) 1996;25(1):94–8 (23 ref.) (Eng. Abstr.) **(Fre)**
[Breech presentation. Plea for delivery by cesarean section] Lorenz U, et al. **Arch Gynecol Obstet** 1996;259 Suppl 1:S156–60 **(Ger)**
[Spontaneous delivery from breech presentation. Plea for natural delivery] Stoll W. **Arch Gynecol Obstet** 1996;259 Suppl 1:S152–5 **(Ger)**
[Delivery from breech presentation with the delivery chair. Initial experiences with a new obstetric method] Burger M, et al. **Gynakol Geburtshilfliche Rundsch** 1996; 36(2):69–74 (Eng. Abstr.) **(Ger)**
[Accuracy of ultrasound weight assessment—comparison of vertex vs. breech presentation] Ragosch V, et al.
Ultraschall Med 1997 Feb;18(1):19–25 (Eng. Abstr.) **(Ger)**
[Tocolytic therapy in breech presentation and threatened premature labor] Roemer VM. **Z Geburtshilfe Neonatol** 1997 May–Jun;201(3):201 **(Ger)**
[The effect of the delivery method on the mortality of very low birth weight infants in case of breech presentation] Görbe E, et al. **Orv Hetil** 1997 Jun 15;138(24):1561–4 (Eng. Abstr.) **(Hun)**
[Management of breech delivery and its influence on the newborn] Preis K, et al. **Ginekol Pol** 1996 Jul;67(7):337–40 (Eng. Abstr.) **(Pol)**
[External version in pelvic presentation] Cantú–Esquivel MG, et al. **Ginecol Obstet Mex** 1996 Oct;64:474–6 (Eng. Abstr.) **(Spa)**

BREEDING

Vitellogenesis in virgin and mated females of the mealworm beetle, Tenebrio molitor. Michalik J, et al.
Acta Biochim Pol 1996;43(4):623–31
Age–related changes in scrotal circumference of Hungarian Simmental bulls in self–performance test. Tözsér J, et al. **Acta Vet Hung** 1996;44(3):263–7
Evaluation of the GnRH test results of beef–type breeding bull candidates. Tözsér J, et al. **Acta Vet Hung** 1996; 44(3):269–75
Behavioral and social correlates of escape from suppression of ovulation in female common marmosets housed with the natal family. Saltzman W, et al. **Am J Primatol** 1997; 41(1):1–21
Prospects for human reproductive medicine—applications of experimental techniques used in farm animal breeding. Michelmann HW, et al. **Andrologia** 1996;28 Suppl 1:93–5 (0 ref.)
Fertility of the male alpaca: effect of daily consecutive breeding. Bravo PW, et al. **Anim Reprod Sci** 1997 Apr; 46(3–4):305–12
Conservation genetics. Frankham R. **Annu Rev Genet** 1995; 29:305–27 (170 ref.)
Genetic improvement in beef cattle using a progeny testing system based on carcase merit. Johnson ER.
Aust Vet J 1996 Jun;73(6):225–32
Rusa deer (Cervus timorensis russa) farming in New Caledonia: impact of different feed levels on herd breeding rate and performance of newborn fawns. Le Bel S, et al. **Aust Vet J** 1997 Mar;75(3):199–203
The incidence and consequences of failure of passive transfer of immunity on a thoroughbred breeding farm. Raidal SL. **Aust Vet J** 1996 Jun;73(6):201–6
Effects of two pasture systems on faecal nematode egg counts in breeding ewes. Saul GR. **Aust Vet J** 1996 Aug; 74(2):154–5
A case–control study to identify farm factors affecting fertility of dairy herds: multivariate description of factors. Webster FB, et al. **Aust Vet J** 1997 Apr;75(4):262–5
A case–control study to identify farm factors affecting fertility of dairy herds: univariate description of factors. Webster FB, et al. **Aust Vet J** 1997 Apr;75(4):266–73
Ornithobacterium rhinotracheale infection in turkey breeders. De Rosa M, et al. **Avian Dis** 1996 Oct–Dec;40(4):865–74
Effect of size and timing of photoperiod increase on age at first egg and subsequent performance of two breeds of laying hen. Lewis PD, et al. **Br Poult Sci** 1997 May; 38(2):142–50
Repeatability and phenotypic correlations for body weight and reproduction in commercial ostrich breeding pairs. van Schalkwyk SJ, et al. **Br Poult Sci** 1996 Dec;37(5):953–62
Susceptibility and resistance of rats to stress–induced decreases in swim–test activity: a selective breeding study. Scott PA, et al. **Brain Res** 1996 Jul 1;725(2):217–30
Psychodemographic profile of stockpeople working on independent and integrated swine breeding farms in Quebec. Ravel A, et al. **Can J Vet Res** 1996 Oct;60(4):241–8
The interbreeding of sheep and goats. Kelk DA, et al.
Can Vet J 1997 Apr;38(4):235–7
PCR analysis of half–seeds of cereal crops and its application in marker–assisted selection and breeding. Zhai W, et al. **Chin J Biotechnol** 1996;12(4):249–55
Sire breed of calf influences peripartum endocrine profiles and postpartum anestrus in Brahman cows. Browning R Jr, et al. **Domest Anim Endocrinol** 1996 Nov;13(6):511–7
Linear assessment of the thoroughbred horse: an approach to conformation evaluation [see comments] Mawdsley A, et al. **Equine Vet J** 1996 Nov;28(6):461–7. Comment in: Equine Vet J 1996 Nov;28(6):429–30.
Comparison of age, sex, breed, history and management in 229 horses with colic. Morris DD, et al.
Equine Vet J Suppl 1989 Jun;(7):i29–32
On the potential for estimating the effective number of breeders from heterozygote–excess in progeny. Pudovkin AI, et al. **Genetics** 1996 Sep;144(1):383–7
Marker–assisted introgression in backcross breeding programs. Visscher PM, et al. **Genetics** 1996 Dec; 144(4):1923–32
Genotype selection to rapidly breed congenic strains. Weil MM, et al. **Genetics** 1997 Jul;146(3):1061–9
Role of biological agents for the control of mosquito breeding in rice fields. Kant R, et al. **Indian J Malariol** 1996 Dec; 33(4):209–15
Domestic breeding sources and their contribution in Anopheles stephensi breeding in Dindigul, Tamil Nadu. Kar I, et al. **Indian J Malariol** 1996 Dec;33(4):191–9
Mosquito breeding and resting in treeholes in a forest ecosystem in Orissa. Yadav RS, et al.
Indian J Malariol 1997 Mar;34(1):8–16
Feasibility and implications of breeding sheep for resilience to nematode challenge. Bisset SA, et al. **Int J Parasitol** 1996 Aug–Sep;26(8–9):857–68 (38 ref.)
Prospects of breeding small ruminants for resistance to internal parasites. Woolaston RR, et al. **Int J Parasitol** 1996 Aug–Sep;26(8–9):845–55 (63 ref.)
Genetics of canine hip dysplasia [see comments] Leighton EA. **J Am Vet Med Assoc** 1997 May 15;210(10):1474–9 (16 ref.). Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.
Prevalence and inheritance of and selection for hip dysplasia in seven breeds of dogs in Sweden and benefit: cost analysis of a screening and control program. Swenson L, et al.
J Am Vet Med Assoc 1997 Jan 15;210(2):207–14
Prevalence and inheritance of and selection for elbow arthrosis in Bernese mountain dogs and Rottweilers in Sweden and benefit: cost analysis of a screening and control program. Swenson L, et al. **J Am Vet Med Assoc** 1997 Jan 15;210(2):215–21
Prediction of breeding values for tenderness of market animals from measurements on bulls. Barkhouse KL, et al. **J Anim Sci** 1996 Nov;74(11):2612–21
Genotype x environment interactions in Angus, Brahman, and reciprocal cross cows and their calves grazing common bermudagrass and endophyte–infected tall fescue pastures. Brown MA, et al. **J Anim Sci** 1997 Apr;75(4):920–5
Effects of sire, dam traits, calf traits, and environment on dystocia and subsequent reproduction of two–year–old heifers. Colburn DJ, et al. **J Anim Sci** 1997 Jun; 75(6):1452–60
Breed–specific adjustment factors for reproductive traits in Duroc, Hampshire, Landrace, and Yorkshire swine. Culbertson MS, et al. **J Anim Sci** 1997 Sep;75(9):2362–7
Effect of halothane genotype, breed, feed withdrawal, and lairage on pork quality of belgian slaughter pigs. De Smet SM, et al. **J Anim Sci** 1996 Aug;74(8):1854–63
Risk of recurrence of repeat breeding in sows with a repeat breeding in the first parity. Elbers AR, et al.
J Anim Sci 1996 Oct;74(10):2327–30
Maternal nest quality and its influence on litter survival and weaning performance in commercial rabbits. Hamilton HH, et al. **J Anim Sci** 1997 Apr;75(4):926–33
Effect of rotational vs continuous intensive stocking of bahiagrass on performance of Angus cows and calves and interaction with sire type on gastrointestinal nematode burden. Hammond AC, et al. **J Anim Sci** 1997 Sep; 75(9):2291–9
Lifetime lamb and wool production of targhee or Finn–Dorset–Targhee ewes managed as farm or range flock: I. Average annual ewe performance. Iman NY, et al. **J Anim Sci** 1996 Aug;74(8):1757–64
Lifetime lamb and wool production of targhee or Finn–Dorset–Targhee ewes managed as farm or range flock: II. Cumulative lamb and wool production. Iman NY, et al. **J Anim Sci** 1996 Aug;74(8):1765–9
Changes in proportions of empty body depots and constituents for nine breeds of cattle under various feed availabilities. Jenkins TG, et al. **J Anim Sci** 1997 Jan; 75(1):95–104
Feed intake pattern during lactation and subsequent reproductive performance of sows. Koketsu Y, et al.
J Anim Sci 1996 Dec;74(12):2875–84
Genetic components for milk production of tarentaise, hereford, and tarentaise x hereford cows. Kress DD, et al. **J Anim Sci** 1996 Oct;74(10):2344–8
The interplay of feeding and genetics on heifer rearing and first lactation milk yield: a review. Lee AJ. **J Anim Sci** 1997 Mar;75(3):846–51 (23 ref.)
Relationship between sire x year interactions and direct–maternal genetic correlation for weaning weight of Simmental cattle. Lee C, et al. **J Anim Sci** 1997 Jan; 75(1):68–75
Technical note: optimization of breed composition to maximize net merit of synthetic populations. Lin CY.
J Anim Sci 1996 Jul;74(7):1477–80 (12 ref.)
Systematic error in genetic evaluation of miles city line 1 hereford cattle resulting from preadjustment for age of dam. MacNeil MD, et al. **J Anim Sci** 1996 Aug; 74(8):1794–800
Age and breed differences in thyroid hormones, insulin–like growth factor (IGF)–I and IGF binding proteins in female horses. Malinowski K, et al. **J Anim Sci** 1996 Aug; 74(8):1936–42
Genetic analysis of discrete reproductive traits in sheep using linear and nonlinear models: I. Estimation of genetic parameters. Matos CA, et al. **J Anim Sci** 1997 Jan; 75(1):76–87
Feasibility of the grandprogeny design for quantitative trait

loci (QTL) detection in purebred beef cattle. Moody DE, et al. **J Anim Sci** 1997 Apr;75(4):941–9
Effects of selection for scrotal circumference in Limousin bulls on reproductive and growth traits of progeny. Moser DW, et al. **J Anim Sci** 1996 Sep;74(9):2052–7
Divergent selection for heat loss in mice: I. Selection applied and direct response through fifteen generations. Nielsen MK, et al. **J Anim Sci** 1997 Jun;75(6):1461–8
Divergent selection for heat loss in mice: II. Correlated responses in feed intake, body mass, body composition, and number born through fifteen generations. Nielsen MK, et al. **J Anim Sci** 1997 Jun;75(6):1469–76
Genetic parameter estimates for growth and fleece characteristics in Targhee sheep. Notter DR, et al. **J Anim Sci** 1997 Jul;75(7):1729–37
Influence of exogenous insulin before breeding on conception rate and litter size of sows. Ramirez JL, et al. **J Anim Sci** 1997 Jul;75(7):1893–8
Estimation of direct and maternal breed effects for prediction of expected progeny differences for birth and weaning weights in three multibreed populations. Rodríguez-Almeida FA, et al. **J Anim Sci** 1997 May; 75(5):1203–12
Effects of time of weaning, supplement, and sire breed of calf during the fall grazing period on cow and calf performance. Short RE, et al. **J Anim Sci** 1996 Jul; 74(7):1701–10
Least squares Lehmann-Scheffé estimation of variances and covariances with mixed linear models. Slanger WD. **J Anim Sci** 1996 Nov;74(11):2577–85
Genetic relationships among production traits and rebreeding performance. ten Napel J, et al. **J Anim Sci** 1997 Jan; 75(1):51–60
Multiple-trait Gibbs sampler for animal models: flexible programs for Bayesian and likelihood-based (co)variance component inference. Van Tassell CP, et al. **J Anim Sci** 1996 Nov;74(11):2586–97
Direct and maternal genetic covariances by age of dam for weaning weight. Van Vleck LD, et al. **J Anim Sci** 1996 Aug;74(8):1801–5
Hair sheep genetic resources and their contribution to diversified small ruminant production in the United States. Wildeus S. **J Anim Sci** 1997 Mar;75(3):630–40 (49 ref.)
Genetic influences on beef longissimus palatability in charolais- and limousin-sired steers and heifers. Wulf DM, et al. **J Anim Sci** 1996 Oct;74(10):2394–405
Breed differences in boar taint: relationship between tissue levels boar taint compounds and sensory analysis of taint. Xue J, et al. **J Anim Sci** 1996 Sep;74(9):2170–7
Breeding habitats of vector sandflies and their control in India. Sivagnaname N, et al. **J Commun Dis** 1997 Jun; 29(2):153–9 (57 ref.)
Application of contemporary methods for the use of international data in national genetic evaluations. Banos G, et al. **J Dairy Sci** 1996 Jun;79(6):1117–25 (23 ref.)
Effects of dietary crude protein, breed, parity, and health status on the fertility of dairy cows. Barton BA, et al. **J Dairy Sci** 1996 Dec;79(12):2225–36
Genetic evaluation of dairy cattle using test day yields and random regression model. Jamrozik J, et al. **J Dairy Sci** 1997 Jun;80(6):1217–26
Factors influencing international comparisons of dairy sires. Schaeffer LR, et al. **J Dairy Sci** 1996 Jun;79(6):1108–16 (10 ref.)
Impact of second-country data of foreign bulls on international evaluations of dairy bulls. Weigel KA. **J Dairy Sci** 1996 May;79(5):900–6
Effects of breeding environments on generation and activation of autoreactive B-1 cells in anti-red blood cell autoantibody transgenic mice. Murakami M, et al. **J Exp Med** 1997 Feb 17;185(4):791–4
Breeding of the water rat (Nectomys squamipes) in the laboratory. D'Andrea PS, et al. **Lab Anim** 1996 Oct; 30(4):369–76
Evaluation of the chimpanzee breeding program at the Southwest Foundation for Biomedical Research. Brent L, et al. **Lab Anim Sci** 1996 Aug;46(4):405–9
Breeding of bonnet monkeys (Macaca radiata) in captivity. Rao AJ, et al. **Lab Anim Sci** 1997 Apr;47(2):180–3
Towards interbreed IBD fine mapping of the mh locus: double-muscling in the Asturiana de los Valles breed involves the same locus as in the Belgian Blue cattle breed. Dunner S, et al. **Mamm Genome** 1997 Jun;8(6):430–5
Hyalomma ticks: bovine resistance under field conditions as related to host age and breed. Sahibi H, et al. **Parasite** 1997 Jun;4(2):159–65
Temperature effects on the breeding distribution of grey seals (Halichoerus grypus). Hansen S, et al. **Physiol Zool** 1997 Jul-Aug;70(4):436–43
Effect of the genetic selection of turkeys for increased body weight and egg production on immune and physiological responses. Bayyari GR, et al. **Poult Sci** 1997 Feb; 76(2):289–96
The effect of broiler breeder flock age and length of egg storage on egg albumen during early incubation. Benton CE Jr, et al. **Poult Sci** 1996 Sep;75(9):1069–75
Close linkage relationship of the Z-linked pop-eye and silver plumage color loci in the chicken. Bitgood JJ, et al. **Poult Sci** 1996 Sep;75(9):1067–8
The hypostatic genotype of the recessive white prat breed of chickens. Campo JL. **Poult Sci** 1997 Mar;76(3):432–6
Physiological differences in late embryos from turkey breeders at different ages. Christensen VL, et al. **Poult Sci** 1996 Feb;75(2):172–8
Examination of the dietary methionine requirements of breeding northern bobwhite, Colinus virginianus. Dabbert CB, et al. **Poult Sci** 1996 Aug;75(8):991–7
Divergent selection for body weight and yolk precursor in Coturnix coturnix japonica. 12. Heterosis in reciprocal crosses between divergently selected lines. Moritsu Y, et al. **Poult Sci** 1997 Mar;76(3):437–44
Effect of strain and age of the broiler breeder female on incubation time and chick weight. Suarez ME, et al. **Poult Sci** 1997 Jul;76(7):1029–36
Age, breed, sex and seasonality as risk factors for equine laminitis. Polzer J, et al. **Prev Vet Med** 1997 Jan; 29(3):179–84
Protein sources affect follicular dynamics in ewes near the onset of the breeding season. Landau S, et al. **Reprod Fertil Dev** 1996;8(6):1021–8
Effects of growth and breed on direct static measurements of chest wall compliance in cattle. Desmecht D, et al. **Res Vet Sci** 1997 Jan-Feb;62(1):1–5
Appearance of eosinophilic granule cells as pathological changes in the uteri of two aged virgin Donryu rats. Yoshida M, et al. **Toxicol Pathol** 1997 May-Jun;25(3):321–5
Observations using the new bull-breeding soundness evaluation forms in adult and young bulls. Carson RL, et al. **Vet Clin North Am Food Anim Pract** 1997 Jul; 13(2):305–11
Bull libido/serving capacity. Chenoweth PJ. **Vet Clin North Am Food Anim Pract** 1997 Jul;13(2):331–44 (88 ref.)
Breeding soundness evaluation of yearling bulls. Spitzer JC, et al. **Vet Clin North Am Food Anim Pract** 1997 Jul; 13(2):295–304 (33 ref.)
Prevalence and prevention of deafness in the Dalmatian--assessing the effect of parental hearing status and gender using ordinary logistic and generalized random litter effect models. Wood JL, et al. **Vet J** 1997 Sep; 154(2):121–33
Mortality in insured Swedish dogs: rates and causes of death in various breeds. Bonnett BN, et al. **Vet Rec** 1997 Jul 12;141(2):40–4
Increasing the efficiency of suckled calf production using embryo transfer technology. Sinclair KD, et al. **Vet Rec** 1996 Oct 26;139(17):409–12 (25 ref.)
Changes of blood metabolites and hormones in breeding calves associated with weaning. Hugi D, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):99–108
[Life expectancy and cause of death in dogs. I. The situation in mixed breeds and various dog breeds] Eichelberg H, et al. **Berl Munch Tierarztl Wochenschr** 1996 Aug; 109(8):292–303 (Eng. Abstr.) **(Ger)**
[Analysis of gene effects on performance characteristics] Geldermann H. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct;103(10):378–83 (16 ref.) (Eng. Abstr.) **(Ger)**
[Pain caused by breeding: definition, judgment, pathogenesis] Herzog A. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb; 104(2):71–4 (Eng. Abstr.) **(Ger)**
[The problem of breeding for fertility] Jansen S, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct;103(10):414–6 (14 ref.) (Eng. Abstr.) **(Ger)**
[Role of juvenile hormone metabolism in the adaptation of Drosophila populations to stressful environmental conditions] Gruntenko NE, et al. **Genetika** 1996 Sep; 32(9):1191–8 (Eng. Abstr.) **(Rus)**
[Comparative analysis of morphologic traits in Mediterranean and Chinese chicken breeds. The problem of the origin of the domestic chicken] Moiseeva IG, et al. **Genetika** 1996 Nov;32(11):1553–61 (Eng. Abstr.) **(Rus)**
[A statistical genetic analysis of the calving traits of cows of a Ukrainian beef breed] Tkachuk VN, et al. **Tsitol Genet** 1996 Nov-Dec;30(6):73–7 (Eng. Abstr.) **(Rus)**

METHODS

Pregnancies from imipramine and xylazine-induced ex copula ejaculation in a disabled stallion. Card CE, et al. **Can Vet J** 1997 Mar;38(3):171–4
Ewe fertility in the STAR accelerated lambing system. Lewis RM, et al. **J Anim Sci** 1996 Jul;74(7):1511–22
Marker-assisted selection for a sex-limited character in a nucleus breeding population. Ruane J, et al. **J Dairy Sci** 1996 Sep;79(9):1666–78
Improved procedures for maintaining and breeding the short-tailed fruit bat (Carollia perspicillata) in a laboratory setting. Rasweiler JJ 4th, et al. **Lab Anim** 1996 Apr; 30(2):171–81
Microsatellite marker development, mapping and applications in rice genetics and breeding. McCouch SR, et al. **Plant Mol Biol** 1997 Sep;35(1-2):89–99 (76 ref.)
The effect of brooding temperature on broiler performance. Deaton JW, et al. **Poult Sci** 1996 Oct;75(10):1217–20
Inheritance of serum autoantibody, reduced serum IgA and autoimmune disease in a canine breeding colony. Day MJ. **Vet Immunol Immunopathol** 1996 Oct;53(3-4):207–19
Relationship between genetic diversity in the nematode Trichostrongylus colubriformis and breeding management in ten dairy-goat farms. N'Zobadila G, et al. **Vet Parasitol** 1996 Nov 15;66(3-4):213–23
Mating patterns and reproductive wastage in commercial lowland ewes in west Somerset. Smith KC, et al. **Vet Rec** 1996 Dec 7;139(23):563–6
[Significance of biotechnology in reproductive biology and veterinary medicine] Glatzel PS. **Berl Munch Tierarztl Wochenschr** 1997 May;110(5):166–70 (14 ref.) (Eng. Abstr.) **(Ger)**
[Preservation of genetic variation in domestic animals using biotechnical methods] Falge R, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep; 103(8-9):336–40 (42 ref.) (Eng. Abstr.) **(Ger)**
[Experiences in the changes of biotechnology in veterinary practice] Görlach A. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep;103(8-9):312–5 (11 ref.) (Eng. Abstr.) **(Ger)**
[The use of biotechnology in animal breeding] Groeneveld E, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep; 103(8-9):298–302 (9 ref.) (Eng. Abstr.) **(Ger)**
[Status of development and areas of employment of in vitro production of cattle embryos] Lucas-Hahn A, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep; 103(8-9):306–11 (26 ref.) (Eng. Abstr.) **(Ger)**
[Problematic aspects of breeding dwarf rabbits] Wegner W. **DTW Dtsch Tierarztl Wochenschr** 1997 May;104(5):181–3 (Eng. Abstr.) **(Ger)**
[Molecular biological aspects of animal production] Wrenzycki C, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep;103(8-9):316–20 (23 ref.) (Eng. Abstr.) **(Ger)**
[Breeding hygiene regimen and fertility performance in a swine herd of 400] Scharfe S, et al. **Tierarztl Prax** 1997 Apr;25(2):139–44 (Eng. Abstr.) **(Ger)**
[Molecular markers in plant genetics and plant breeding] Marczewski W. **Postepy Biochem** 1995;41(4):237–43 (8 ref.) **(Pol)**

STANDARDS

Comparison of selection based on phenotype, selection index and best linear unbiased prediction using data from a closed broiler line. Morris AJ, et al. **Br Poult Sci** 1997 Jul; 38(3):249–54
The new Society for Theriogenology breeding soundness evaluation system. Hopkins FM, et al. **Vet Clin North Am Food Anim Pract** 1997 Jul;13(2):283–93
[Pain in the breeding of fish] Kölle P, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb;104(2):74–5 (Eng. Abstr.) **(Ger)**
[Pain caused by breeding in dogs] Reetz IC. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb;104(2):68–70 (Eng. Abstr.) **(Ger)**

BRENNER TUMOR

PATHOLOGY

Malignant Brenner tumour of ovary. Dasgupta A, et al. **J Indian Med Assoc** 1997 Jan;95(1):25–6
[Malignant Brenner's tumor of the ovary: description of a case] Pantaleone U, et al. **Pathologica** 1995 Dec;87(6):715–8 (10 ref.) (Eng. Abstr.) **(Ita)**

ULTRASONOGRAPHY

Doppler ultrasound in a patient with ovarian Brenner tumor of low malignant potential: comparison with Gray-scale ultrasound, magnetic resonance imaging and tumor marker suggesting malignancy. Hata K, et al. **Gynecol Obstet Invest** 1997;43(2):135–8

BRETYLIUM TOSYLATE

THERAPEUTIC USE

[Use of the vegetative index in optimization of premedication in patients with stomach and duodenal ulcer] Spitsyn ON, et al. **Klin Khir** 1996;(8):15–6 **(Rus)**

BREVIBACTERIUM

CHEMISTRY

Antibacterial and hemolytic activities of linenscin OC2, a hydrophobic substance produced by Brevibacterium linens OC2. Boucabeille C, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):295–301

ENZYMOLOGY

Specificity of an extracellular proteinase from Brevibacterium linens ATCC 9174 on bovine beta-casein. Rattray FP, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2468–71
Key role of alkanoic acids on the spectral properties, activity, and active-site stability of iron-containing nitrile hydratase from Brevibacterium R312. Kopf MA, et al. **Eur J Biochem** 1996 Aug 15;240(1):239–44
Heterologous expression and biochemical characterization of two functionally different type I fatty acid synthases from Brevibacterium ammoniagenes. Stuible HP, et al. **Eur J Biochem** 1997 Jul 1;247(1):268–73
Electron spin echo envelope modulation studies of the semiquinone anion radical of cholesterol oxidase from Brevibacterium sterolicum. Medina M, et al. **FEBS Lett** 1997 Jan 3;400(2):247–51
The galE gene encoding the UDP-galactose 4-epimerase of Brevibacterium lactofermentum is coupled transcriptionally to the dmdR gene. Oguiza JA, et al. **Gene** 1996 Oct 24; 177(1-2):103–7

BREVIBACTERIUM

Crystallization and preliminary X-ray analysis of cholesterol oxidase from Brevibacterium sterolicum containing covalently bound FAD. Croteau N, et al. **J Struct Biol** 1996 Mar-Apr;116(2):317-9

GENETICS

Nucleotide sequence and taxonomical distribution of the bacteriocin gene lin cloned from Brevibacterium linens M18. Valdes-Stauber N, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1283-6

A dtsR gene-disrupted mutant of Brevibacterium lactofermentum requires fatty acids for growth and efficiently produces L-glutamate in the presence of an excess of biotin. Kimura E, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):157-61

Cloning, sequencing, and characterization of the ftsZ gene from coryneform bacteria. Kobayashi M, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):383-8

Construction of new cloning vectors for Brevibacterium lactofermentum. Cadenas RF, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):63-8

Genomic organization of purK and purE in Brevibacterium ammoniagenes ATCC 6872: purE locus provides a clue for genomic evolution. Chung SO, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):265-8

Transcriptional analysis of the sigA and sigB genes of Brevibacterium lactofermentum. Oguiza JA, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):111-7

Integration of narrow-host-range vectors from Escherichia coli into the genomes of amino acid-producing corynebacteria after intergeneric conjugation. Mateos LM, et al. **J Bacteriol** 1996 Oct;178(19):5768-75

The Brevibacterium albidum gene encoding the arginine tRNACCG complements the growth defect of an Escherichia coli strain carrying a thermosensitive mutation in the rnpA gene at the nonpermissive temperature. Kim MS, et al. **Mol Gen Genet** 1997 Apr 28;254(4):464-8

A Brevibacterium linens pRBL1 replicon functional in Corynebacterium glutamicum. Ankri S, et al. **Plasmid** 1996 Jul;36(1):36-41

A cryptic plasmid pBL1 from Brevibacterium lactofermentum causes growth inhibition and filamentation in Escherichia coli. Goyal D, et al. **Plasmid** 1996 Jul; 36(1):62-6

Cloning of the tryptophan operon of Brevibacterium divaricatum and its expression in E. coli. Su YC, et al. **Proc Natl Sci Counc Repub China B** 1996 Jul;20(3):87-91

Cloning, overexpression, and mutagenesis of the gene for homoprotocatechuate 2,3-dioxygenase from Brevibacterium fuscum. Wang YZ, et al. **Protein Expr Purif** 1997 Jun;10(1):1-9

METABOLISM

The biotransformation of t-butylacetonitrile and its boron-containing analogue trimethylamine-cyanoborane by Brevibacterium R312. Millais AJ, et al. **Arch Microbiol** 1997 Aug;168(2):164-8

Analysis of biotin biosynthesis pathway in coryneform bacteria: Brevibacterium flavum. Hatakeyama K, et al. **Methods Enzymol** 1997;279:339-48 (45 ref.)

BREWER'S YEAST see **SACCHAROMYCES CEREVISIAE**

BRIDGED COMPOUNDS

ANALYSIS

Miniaturized HPLC and ionspray mass spectrometry applied to the analysis of Paclitaxel and taxanes. Liu J, et al. **J Pharm Biomed Anal** 1997 Jul;15(11):1729-39

CHEMICAL SYNTHESIS

Synthesis of N,N'-bis-aminoalkyl-substituted derivatives of bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxydiimide with potential anxiolytic activity. Turło J, et al. **Farmaco** 1996 Dec;51(12):815-8

CHEMISTRY

12,13-isotaxanes: synthesis of new potent analogs and X-ray crystallographic confirmation of structure. Johnson RA, et al. **J Med Chem** 1997 Aug 29;40(18):2810-2

4-substituted cubylcarbinylamines: a new class of mechanism-based monoamine oxidase B inactivators. Zhou JJ, et al. **J Med Chem** 1997 Mar 28;40(7):1165-8

A functional model related to cytochrome c oxidase and its electrocatalytic four-electron reduction of O2. Collman JP, et al. **Science** 1997 Feb 14;275(5302):949-51

METABOLISM

Determination of paclitaxel and related taxanes in bulk drug and injectable dosage forms by reversed phase liquid chromatography. Shao LK, et al. **Anal Chem** 1997 Jun 1; 69(11):2008-16

Comparison of binding parameters of sigma 1 and sigma 2 binding sites in rat and guinea pig brain membranes: novel subtype-selective trishomocubanes. Nguyen VH, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):233-40

The influence of guanyl nucleotide on agonist and antagonist affinity at guinea-pig CCK-B/gastrin receptors: binding studies using [3H]PD140376. Suman-Chauhan N, et al. **Regul Pept** 1996 Aug 27;65(1):37-43

PHARMACOKINETICS

Pharmacokinetic study of paeonimetabolin I, a major metabolite of paeoniflorin from paeony roots. Heikal OA, et al. **Biol Pharm Bull** 1997 May;20(5):517-21

PHARMACOLOGY

Involvement of diacylglycerol production in activation of nuclear factor kappaB by a CD14-mediated lipopolysaccharide stimulus. Yamamoto H, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):223-8

Activation of phosphatidylcholine-selective phospholipase C by I1-imidazoline receptors in PC12 cells and rostral ventrolateral medulla. Separovic D, et al. **Brain Res** 1997 Feb 28;749(2):335-9

The antiviral, antitumoural xanthate D609 is a competitive inhibitor of phosphatidylcholine-specific phospholipase C. Amtmann E. **Drugs Exp Clin Res** 1996;22(6):287-94

SDZ NVI 085, an alpha 1A-adrenoceptor agonist with 5-HT2A receptor antagonist properties. Lachnit WG, et al. **Eur J Pharmacol** 1996 Feb 15;297(1-2):83-6

The alpha 1-adrenoceptor agonist, SDZ NVI-085, behaves as a potent, competitive antagonist of 5-hydroxytryptamine-induced contraction of rat aorta. Van der Graaf PH, et al. **Eur J Pharmacol** 1995 Dec 20; 287(3):309-12

Ryanoids change the permeability of potassium channels of locust (Schistocerca gregaria) muscle. Vais H, et al. **Pflugers Arch** 1996 Aug;432(4):700-7

[Search for new MDR modifier possessing taxane skeleton] Kobayashi J. **Nippon Rinsho** 1997 May;55(5):1135-42 (15 ref.) (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

New microtubular agents in pediatric oncology. Seibel NL, et al. **Invest New Drugs** 1996;14(1):49-54 (45 ref.)

Prevention of experimental allergic encephalomyelitis by targeting nitric oxide and peroxynitrite: implications for the treatment of multiple sclerosis. Hooper DC, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2528-33

TOXICITY

Induction of apoptosis and potentiation of TNF- and Fas-mediated apoptosis in U937 cells by the xanthogenate compound D609. Pörn-Ares MI, et al. **Exp Cell Res** 1997 Aug 25;235(1):48-54

BRIEF PSYCHIATRIC RATING SCALE

STANDARDS

Reliability, construct validity, and subscale norms of the Brief Symptom Inventory when administered to bereaved parents. Johnson LC, et al. **J Nurs Meas** 1996 Winter; 4(2):117-27

[Validation of the Italian version of the Kjellberg and Iwanowski's Mood Scale] Camerino D, et al. **Med Lav** 1996 Mar-Apr;87(2):99-109 (Eng. Abstr.) **(Ita)**

STATISTICS & NUMERICAL DATA

Factor structure of the expanded Brief Psychiatric Rating Scale. Burger GK, et al. **J Clin Psychol** 1997 Aug; 53(5):451-4

BPRS syndrome scales during the course of an episode of psychiatric illness. Silverstein ML, et al. **J Clin Psychol** 1997 Aug;53(5):455-8

BRIGHT DISEASE see **GLOMERULONEPHRITIS**

BRILL-SYMMERS DISEASE see **LYMPHOMA, FOLLICULAR**

BRILL-ZINSSER DISEASE see **TYPHUS, EPIDEMIC LOUSE-BORNE**

BRILL'S DISEASE see **TYPHUS, EPIDEMIC LOUSE-BORNE**

BRINE SHRIMP see **ARTEMIA**

BRIQUET SYNDROME see **SOMATOFORM DISORDERS**

BRISTLE-COATED PITS see **COATED PITS, CELL-MEMBRANE**

BRL-2288 see **TICARCILLIN**

BROAD BETA DISEASE see **HYPERLIPOPROTEINEMIA TYPE III**

BROAD LIGAMENT

An unusual case of acute postpartum broad ligament haematoma. Maxwell C, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):239-41

Laparoscopic treatment of intraligamentous pregnancy. Olsen ME. **Obstet Gynecol** 1997 May;89(5 Pt 2):862

[Granulosa cell tumors: a case located in the broad ligament of the uterus with normal ovaries] Vanderstichele S, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):47-52 (22 ref.) (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Adrenal rest tumor of the broad ligament: case report with immunohistochemical study of steroidogenic enzymes. Sasano H, et al. **Pathol Int** 1997 Jul;47(7):493-6

PATHOLOGY

Undifferentiated carcinoma of the broad ligament in a 28-year-old woman--a case report and results of immunohistochemical and electron-microscopic studies. Kobayashi Y, et al. **Gynecol Oncol** 1996 Dec;63(3):382-7

Castleman's disease of broad ligament. Mondal AK, et al. **J Indian Med Assoc** 1996 Dec;94(12):453-4

A case of female adnexal tumor of probable Wolffian origin: histologically, tumor cells showed three different patterns. Wagatsuma S, et al. **Tohoku J Exp Med** 1997 Mar; 181(3):371-7 (11 ref.)

BROCA AREA see **FRONTAL LOBE**

BROCHURES see **PAMPHLETS**

BROCK'S SYNDROME see **MIDDLE LOBE SYNDROME**

BROD see **CYTOCHROME P-450 CYP2B1**

BROMATES

ANALYSIS

Screening method for the gas chromatographic/mass spectrometric determination of microgram/litre levels of bromate in bottled water. Nyman PJ, et al. **Food Addit Contam** 1996 Aug-Sep;13(6):623-31

Measurement of bromate in bottled water by high-performance liquid chromatography with post-column flow reactor detection. Warner CR, et al. **Food Addit Contam** 1996 Aug-Sep;13(6):633-8

PHARMACOLOGY

Induction of oh8Gua glycosylase in rat kidneys by potassium bromate (KBrO3), a renal oxidative carcinogen. Lee YS, et al. **Mutat Res** 1996 Dec 2;364(3):227-33

POISONING

Cochlear implants in deafened patients due to potassium bromate poisoning. Tono T, et al. **Adv Otorhinolaryngol** 1997;52:315-7

Severe acute renal failure due to bromate intoxication: report of a case and discussion of management guidelines based on a review of the literature. De Vriese A, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):204-9 (29 ref.)

BROMAZEPAM

ANALYSIS

Sensitive determination of bromazepam in human tissues using capillary gas chromatography-mass spectrometry. Zhang XX, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):111-6

PHARMACOLOGY

Effects of alprazolam and bromazepam on visual search and verbal recognition memory in humans: a study with event-related brain potentials. Münte TF, et al. **Neuropsychobiology** 1996;34(1):49-56

THERAPEUTIC USE

Comparison of tenoxicam and bromazepan in the treatment of fibromyalgia: a ramdomized, double-blind, placebo-controlled trial. Quijada-Carrera J, et al. **Pain** 1996 May-Jun;65(2-3):221-5

P-BROMDYLAMINE see **BROMPHENIRAMINE**

BROME MOSAIC VIRUS see **BROMOVIRUS**

BROMELAINS

Enzymatic hydrolysis of copoly(N-hydroxypropyl-L-glutamine/L-leucine) hydrogels in vitro. Miyachi Y, et al. **J Biomater Sci Polym Ed** 1996;7(9):805-16

IMMUNOLOGY

Immunological cross-reactivity of the major allergen from perennial ryegrass (Lolium perenne), Lol p I, and the cysteine proteinase, bromelain. Pike RN, et al. **Int Arch Allergy Immunol** 1997 Apr;112(4):412-4

METABOLISM

[Proteolytic activity control in fish silage] Tomé E, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):317-21 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Intestinal absorption of undegraded proteins in men: presence of bromelain in plasma after oral intake. Castell JV, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G139–46

PHARMACOLOGY

Bromelain prevents secretion caused by Vibrio cholerae and Escherichia coli enterotoxins in rabbit ileum in vitro. Mynott TL, et al. **Gastroenterology** 1997 Jul;113(1):175–84

Selective modulation of cell adhesion molecules on lymphocytes by bromelain protease 5. Kleef R, et al. **Pathobiology** 1996;64(6):339–46

BROMELINS see **BROMELAINS**

BROMHEXINE

ANALYSIS

Determination of bromhexine and ambroxol in pharmaceutical dosage forms, urine and blood serum. Pérez-Ruiz T, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):199–205

Simultaneous determination of bromhexine hydrochloride and methyl and propyl p-hydroxybenzoate and determination of dextromethorphan hydrobromide in cough–cold syrup by high-performance liquid chromatography. Rauha JP, et al. **J Pharm Biomed Anal** 1996 Nov;15(2):287–93

PHARMACOLOGY

Oral bromhexine has no effect on tear secretion in healthy subjects [letter] Avisar R, et al. **Ann Pharmacother** 1996 Dec;30(12):1498

The antioxidative activity of the mucoregulatory agents: ambroxol, bromhexine and N-acetyl-L-cysteine. A pulse radiolysis study. Felix K, et al. **Life Sci** 1996;59(14):1141–7

THERAPEUTIC USE

Bromhexine hydrochloride eliminates protein plugs and relieves attacks of pancreatitis [letter] Noda A, et al. **Pancreas** 1997 Aug;15(2):209–11

Evaluation of antitussive agents in man. Parvez L, et al. **Pulm Pharmacol** 1996 Oct–Dec;9(5–6):299–308

BROMHEXINE METABOLITE VIII see **AMBROXOL**

BROMIDES

Interaction between model membranes and a new class of surfactants with antioxidant function. Przestalski S, et al. **Biophys J** 1996 May;70(5):2203–11

ADMINISTRATION & DOSAGE

Improvement of psoriasis vulgaris with oral nickel dibromide [letter] Smith SA, et al. **Arch Dermatol** 1997 May; 133(5):661–3

ADVERSE EFFECTS

Bromism from excessive cola consumption. Horowitz BZ. **J Toxicol Clin Toxicol** 1997;35(3):315–20

Bromism: intoxication from a rare anticonvulsant therapy. James LP, et al. **Pediatr Emerg Care** 1997 Aug;13(4):268–70

BLOOD

Selective determination of chloride and bromide ions in serum by cyclic voltammetry. Arai K, et al. **Anal Biochem** 1996 Aug 15;240(1):109–13

Chlorodibromomethane metabolism to bromide and carbon monoxide in rats. Pankow D, et al. **Arch Toxicol** 1997; 71(4):203–10

Determination of the halothane metabolites trifluoroacetic acid and bromide in plasma and urine by ion chromatography. Hankins DC, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):413–8

Potentiometric flow injection determination of serum bromide in patients with epilepsy. Katsu T, et al. **J Pharm Biomed Anal** 1997 Aug;15(12):1829–32

CHEMISTRY

Reactivity of mu-peroxo-bridged dimeric vanadate in bromoperoxidation. Rao AV, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):289–97

Vanadium catalysis in bromoperoxidation reaction. Rao AV, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):121–34

The suitability of Ta6Br12(2+) for phasing in protein crystallography. Neuefeind T, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):219–21 (21 ref.)

Ta6Br(2+)12, a tool for phase determination of large biological assemblies by X-ray crystallography. Knäblein J, et al. **J Mol Biol** 1997 Jul 4;270(1):1–7

Cytosine-specific chemical probing of DNA using bromide and monoperoxysulfate. Ross SA, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):5062–3

Aggregation of rhDNase occurred during the compression of KBr pellets used for FTIR spectroscopy. Chan HK, et al. **Pharm Res** 1996 Feb;13(2):238–42

DIAGNOSTIC USE

Bromide dilution in adults: optimal equilibration time after oral administration. Van Marken Lichtenbelt WD, et al. **J Appl Physiol** 1996 Aug;81(2):653–6

[Significance of bromide levels in evaluation of the hemato-encephalic barrier during acute viral meningitis] Nikolić S, et al. **Srp Arh Celok Lek** 1996 Nov–Dec; 124(11–12):297–301 (Eng. Abstr.) **(Scc)**

METABOLISM

Vanadium catalysis in bromoperoxidation reaction. Rao AV, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):121–34

Haloperoxidase activity of manganese peroxidase from Phanerochaete chrysosporium. Sheng D, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):126–34

Hydrophobic interactions are involved in the inhibition of human leukocyte elastase by alkyltrimethylammonium salts. Kouadri-Boudjelthia A, et al. **Int J Biochem Cell Biol** 1997 Feb;29(2):353–9

PHARMACOKINETICS

Interaction of bromine with iodine in the rat thyroid gland at enhanced bromide intake. Vobecký M, et al. **Biol Trace Elem Res** 1996 Sep;54(3):207–12

PHARMACOLOGY

Molecular weight determination of lipoprotein(a) [Lp(a)] in solutions containing either NaBr or D2O: relevance to the number of apolipoprotein(a) subunits in Lp(a). Fless GM, et al. **Biochemistry** 1997 Jan 7;36(1):233–8

Effect of increased bromide intake on iodine excretion in rats. Vobecký M, et al. **Biol Trace Elem Res** 1996 Dec; 55(3):215–9

Effect of bisquaternary ammonium salts on Salmonella typhimurium. Majtán V, et al. **Microbios** 1996; 87(351):89–96

POISONING

[Factitious hyperchloremia disclosing bromide poisoning. 4 cases] Bonnotte B, et al. **Presse Med** 1997 May 31; 26(18):852–4 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

[Bromide-iodide baths and magnetic-laser radiation in the correction of disorders of hemodynamics and of the adaptation processes in metallurgical workers] Konevskikh LA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):20–2 (Eng. Abstr.) **(Rus)**

[The use of interference currents and iodobromine baths in the therapy of patients with chronic nonobstructive pyelonephritis] Nesterov NI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct; (5):19–22 (Eng. Abstr.) **(Rus)**

[The use of sinusoidal modulated currents and iodobromine baths in treating patients with the "stone pathway" of the upper urinary tract] Nesterov NI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May–Jun; (3):28–30 (Eng. Abstr.) **(Rus)**

TOXICITY

Prenatal exposure to sodium bromide affects the postnatal growth and brain development. Disse M, et al. **J Hirnforsch** 1996;37(1):127–34

URINE

Determination of the halothane metabolites trifluoroacetic acid and bromide in plasma and urine by ion chromatography. Hankins DC, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):413–8

[Determination of bromide ion by HS-GC with a flame ionization detector and an electron-capture detector] Tokutake T, et al. **Sangyo Eiseigaku Zasshi** 1997 Mar; 39(2):68–9 **(Jpn)**

BROMINATED HYDROCARBONS see **HYDROCARBONS, BROMINATED**

BROMINE

Relationship between structural properties and affinity for herpes simplex virus type 1 thymidine kinase of bromine substituted 5-heteroaromatic 2'-deoxyuridines. Creuven I, et al. **Antiviral Res** 1996 May;30(2–3):63–74

Germ warfare. Medlin J. **Environ Health Perspect** 1997 Mar; 105(3):290–2

ANALYSIS

Monte Carlo uncertainty analysis of a diffusion model for the assessment of halogen gas exposure during dosing of brominators. Shade WD, et al. **Am Ind Hyg Assoc J** 1997 Jun;58(6):418–24

[Determination of total bromine in foods by ECD gas chromatograph] Matsuda R, et al. **Eisei Shikenjo Hokoku** 1994;(112):108–11 (Eng. Abstr.) **(Jpn)**

BLOOD

Biological monitoring of workers' exposure to bromine. Eldan M, et al. **J Occup Environ Med** 1996 Oct; 38(10):1026–31

CHEMISTRY

Determination of bromine and iodine in normal tissues from Beijing healthy adults. Hou X, et al. **Biol Trace Elem Res** 1997 Feb;56(2):225–30

METABOLISM

Effect of increased bromide intake on iodine excretion in rats. Vobecký M, et al. **Biol Trace Elem Res** 1996 Dec; 55(3):215–9

PHARMACOKINETICS

Interaction of bromine with iodine in the rat thyroid gland at enhanced bromide intake. Vobecký M, et al. **Biol Trace Elem Res** 1996 Sep;54(3):207–12

PHARMACOLOGY

In vitro activity of synthetic bromo analogs of pyrrolmycins against clinical Staphylococcus aureus strains. Schillaci D, et al. **Pharmazie** 1996 Jan;51(1):64

POISONING

Bromide intoxication due to propantheline bromide. Heckerling PS, et al. **Am J Nephrol** 1996;16(6):537–9

Another hot tub hazard. Toxicity secondary to bromine and hydrobromic acid exposure. Burns MJ, et al. **Chest** 1997 Mar;111(3):816–9

BROMINE COMPOUNDS

CHEMISTRY

Reactivity of mu-peroxo-bridged dimeric vanadate in bromoperoxidation. Rao AV, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):289–97

BROMINE RADIOISOTOPES

CHEMISTRY

Preparation and pharmacological characterization of [76Br]-meta-bromobenzylguanidine ([76Br]MBBG). Loc'h C, et al. **Nucl Med Biol** 1994 Jan;21(1):49–55

DIAGNOSTIC USE

Positron emission tomographic investigations of central muscarinic cholinergic receptors with three isomers of [76Br]BrQNP. Strijckmans V, et al. **Eur J Nucl Med** 1997 May;24(5):475–82

Comparative PET imaging of experimental tumors with bromine-76-labeled antibodies, fluorine-18-fluorodeoxyglucose and carbon-11-methionine. Lövqvist A, et al. **J Nucl Med** 1997 Jul;38(7):1029–35

11C- and 76Br-labelled NNC 22-0010, selective dopamine D1 receptor radioligands for PET. Foged C, et al. **Nucl Med Biol** 1996 Aug;23(6):837–44

Preparation of [76Br]FLB 457 and [76Br]FLB 463 for examination of striatal and extrastriatal dopamine D-2 receptors with PET. Loc'h C, et al. **Nucl Med Biol** 1996 Aug;23(6):813–9

Pharmacological characterization and positron emission tomography evaluation of 4-[76Br]bromodexetimide and 4-[76Br]bromolevetimide for investigations of central muscarinic cholinergic receptors. Loc'h C, et al. **Nucl Med Biol** 1996 Apr;23(3):235–43

76Br-MBBG, a PET radiotracer to investigate the norepinephrine neurological and vesicular transproters in the heart. Maziere B, et al. **Nucl Med Biol** 1995 Nov; 22(8):1049–52

PHARMACOKINETICS

Pharmacokinetics and experimental PET imaging of a bromine-76-labeled monoclonal anti-CEA antibody. Lövqvist A, et al. **J Nucl Med** 1997 Mar;38(3):395–401

BROMISOVAL see **BROMISOVALUM**

BROMISOVALUM

ANALYSIS

Application of high-performance liquid chromatography/mass spectrometry to drug screening. Higuchi T, et al. **Am J Forensic Med Pathol** 1996 Mar; 17(1):21–3

Detection of bromisovalum from the bone marrow of skeletonized human remains: a case report with a comparison between gas chromatography/mass spectrometry (GC/MS) and high-performance liquid chromatography/mass spectrometry (LC/MS). Maeda H, et al. **Med Sci Law** 1997 Jul;37(3):248–53

METABOLISM

Involvement of a cytochrome P450 system in microsomal debromination of alpha-(bromisovaleryl)urea. Oka K, et al. **J Pharm Pharmacol** 1996 Sep;48(9):930–2

BROMISOVALUM

POISONING

[A suicidal case of electrocution with hypnotic drug poisoning: an autopsy report] Yamazaki M, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):95–101 (Eng. Abstr.) **(Jpn)**

[A case of chronic bromvalerylurea intoxication with episodic neurological manifestations such as optic neuropathy ophthalmoplegia and ataxia] Fukazawa T, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):790–2 (Eng. Abstr.) **(Jpn)**

8-BROMO-CAMP see **8-BROMO CYCLIC ADENOSINE MONOPHOSPHATE**

8-BROMO CYCLIC ADENOSINE MONOPHOSPHATE

ANALOGS & DERIVATIVES

Role of PACAP in the relationship between cAMP and opioids in hypoxia-induced pial artery vasodilation. Wilderman MJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1350–8

Pharmacokinetics, metabolism and tumour disposition of 8-chloroadenosine 3',5'-monophosphate in breast cancer patients and xenograft bearing mice. Cummings J, et al. **Ann Oncol** 1996 Mar;7(3):291–6

Ex vivo cytotoxic drug evaluation by DiSC assay to expedite identification of clinical targets: results with 8-chloro-cAMP. Bosanquet AG, et al. **Br J Cancer** 1997; 76(4):511–8

Comparison of the effects of cyclic AMP analogues on cholesterol metabolism in cultured rat and hamster hepatocytes. Botham KM, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):185–91

Antitumor activity of combined blockade of epidermal growth factor receptor and protein kinase A. Ciardiello F, et al. **J Natl Cancer Inst** 1996 Dec 4;88(23):1770–6

PHARMACOLOGY

Stimulation of eating by the second messenger cAMP in the perifornical and lateral hypothalamus. Gillard ER, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R107–12

cAMP modulates glucocorticoid-induced protein accumulation and glucocorticoid receptor in cardiomyocytes. Sato A, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 1):E827–33

Role of PACAP in the relationship between cAMP and opioids in hypoxia-induced pial artery vasodilation. Wilderman MJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1350–8

cAMP suppresses p21ras and Raf-1 responses but not the Erk-1 response to granulocyte-colony-stimulating factor: possible Raf-1-independent activation of Erk-1. Csar XF, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):79–87

8-Bromo-cAMP induces a proliferative response in an IL-3 dependent leukemic cell line and activates Erk 1,2 via a Shc-independent pathway. Barge RM, et al. **Biochim Biophys Acta** 1997 Feb 4;1355(2):141–6

Cyclic AMP analogue as a triggering signal for the induction of nitric oxide synthesis in murine peritoneal macrophages. Park YC, et al. **Cell Immunol** 1997 Jul 10;179(1):41–7

Cyclic adenosine 3',5'-monophosphate regulates GLUT4 and GLUT1 glucose transporter expression and stimulates transcriptional activity of the GLUT1 promoter in muscle cells. Viñals F, et al. **Endocrinology** 1997 Jun;138(6):2521–9

Phorbol esters affect cyclic nucleotide-mediated responses in cultured chick lens annular pad cells. Ireland ME, et al. **Exp Eye Res** 1997 Jun;64(6):939–44

S-carbocysteine-lysine salt monohydrate and cAMP cause non-additive activation of the cystic fibrosis transmembrane regulator channel in human respiratory epithelium. Meyer G, et al. **FEBS Lett** 1997 Mar 3; 404(1):11–4

Activators of protein kinase A and of protein kinase C inhibit MDCK cell myo-inositol and betaine uptake. Preston AS, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1559–64

Differential phosphorylation of chicken progesterone receptor in hormone-dependent and ligand-independent activation. Bai W, et al. **J Biol Chem** 1997 Apr 18; 272(16):10457–63

Secretagogues increase the expression of surfactant protein A receptors on lung type II cells. Chen Q, et al. **J Biol Chem** 1996 Oct 11;271(41):25277–83

8-Bromo-cAMP inhibits glucose transport activity in mouse placental cells in culture. Sakata M, et al. **J Endocrinol** 1996 Aug;150(2):319–27

Cyclic nucleotides regulate the activity of L-type calcium channels in smooth muscle cells from rat portal vein. Liu H, et al. **J Mol Cell Cardiol** 1997 May;29(5):1411–21

Cyclic AMP-dependent protein kinase enhances hippocampal dentate granule cell GABAA receptor currents. Kapur J, et al. **J Neurophysiol** 1996 Oct; 76(4):2626–34

Effects of cGMP and the nitric oxide donors glyceryl trinitrate and sodium nitroprusside on contractions in vitro of isolated myometrial tissue from pregnant women. Norman JE, et al. **J Reprod Fertil** 1997 Jul;110(2):249–54

Cyclic AMP and cyclic GMP relax phorbol ester-induced contractions of rat aorta by different mechanisms. Ahn HY, et al. **Life Sci** 1997;60(25):2333–40

Differential regulation of inhibin/activin alpha- and beta A-subunit and follistin mRNAs by cyclic AMP and phorbol ester in cultured human granulosa-luteal cells. Tuuri T, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):1–10

Proliferation in the auditory receptor epithelium mediated by a cyclic AMP-dependent signaling pathway [see comments] Navaratnam DS, et al. **Nat Med** 1996 Oct; 2(10):1136–9. Comment in: Nat Med 1996 Oct;2(10):1082–3.

cAMP modulates an S-type K+ channel coupled to GABAB receptors in mammalian respiratory neurons. Wagner PG, et al. **Neuroreport** 1997 May 6;8(7):1667–70

Cyclin D1 expression is a major target of the cAMP-induced inhibition of cell cycle entry in fibroblasts. L'Allemain G, et al. **Oncogene** 1997 Apr 24;14(16):1981–90

8-bromo-cAMP and 8-CPT-cAMP increase the density of beta-adrenoceptors in hepatocytes by a mechanism not mimicking the effect of cAMP. Sandnes D, et al. **Pharmacol Toxicol** 1996 Jul;79(1):15–22

BROMOBENZENES

ADMINISTRATION & DOSAGE

Pharmacokinetic-pharmacodynamic relationships of bromfenac in mice and humans. Chiang ST, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1179–87

ANALYSIS

Determination of decabromobiphenyl ether in water and sediment samples by gas chromatography with electron capture detection. Yamamoto H, et al. **J AOAC Int** 1997 Jan-Feb;80(1):102–6

CHEMICAL SYNTHESIS

Preparation and pharmacological characterization of [76Br]-meta-bromobenzylguanidine ([76Br]MBBG). Loch C, et al. **Nucl Med Biol** 1994 Jan;21(1):49–55

DIAGNOSTIC USE

76Br-MBBG, a PET radiotracer to investigate the norepinephrine neurological and vesicular transproters in the heart. Maziere B, et al. **Nucl Med Biol** 1995 Nov; 22(8):1049–52

PHARMACOKINETICS

Effects of age and gender on the pharmacokinetics of bromfenac in healthy volunteers. Boni JP, et al. **Ann Pharmacother** 1997 Apr;31(4):400–5

Absolute bioavailability of bromfenac in humans. Gumbhir-Shah K, et al. **Ann Pharmacother** 1997 Apr; 31(4):395–9

Bromfenac disposition in patients with impaired kidney function. Ermer JC, et al. **Clin Pharmacol Ther** 1997 Mar; 61(3):312–8

Evaluation of pharmacokinetic interaction between bromfenac and phenytoin in healthy males. Gumbhir-Shah K, et al. **J Clin Pharmacol** 1997 Feb;37(2):160–8

Lack of interaction between bromfenac and methotrexate in patients with rheumatoid arthritis. Gumbhir-Shah K, et al. **J Rheumatol** 1996 Jun;23(6):984–9

Pharmacokinetic-pharmacodynamic relationships of bromfenac in mice and humans. Chiang ST, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1179–87

PHARMACOLOGY

The influence of bromfenac on the pharmacokinetics and pharmacodynamic responses to glyburide in diabetic subjects. Boni JP, et al. **Pharmacotherapy** 1997 Jul-Aug; 17(4):783–90

THERAPEUTIC USE

Bromfenac sodium, acetaminophen/oxycodone, ibuprofen, and placebo for relief of postoperative pain. Johnson GH, et al. **Clin Ther** 1997 May-Jun;19(3):507–19

A crossover comparison of bromfenac sodium, naproxen sodium, and placebo for relief of pain from primary dysmenorrhea. Mehlisch DR, et al. **J Womens Health** 1997 Feb;6(1):83–92

TOXICITY

Biochemical alterations as measures of acute and subacute hepatotoxicity of 1,3-dibromobenzene in rat. Szymańska JA. **Arch Toxicol** 1996;71(1-2):99–106

Bromobenzene and furosemide hepatotoxicity: alterations in glutathione, protein thiols, and calcium. Grewal KK, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):257–64

Comparison of hepatotoxicity of 1,2-, 1,3- and 1,4-dibromobenzenes: the dynamics of changes of selected parameters of liver necrosis in acute poisoning in mice. Szymańska JA, et al. **J Appl Toxicol** 1996 Jan-Feb; 16(1):35–41

Protective effects of trolox C, vitamin C, and catalase on bromobenzene-induced damage to rat hepatocytes. Wu J, et al. **Scand J Gastroenterol** 1996 Aug;31(8):797–803

Evaluation of the developmental toxicity of 4-bromobenzene using frog embryo teratogenesis assay--Xenopus: possible mechanisms of action. Fort DJ, et al. **Teratog Carcinog Mutagen** 1996;16(6):307–15

Late dimethyl sulfoxide administration provides a protective action against chemically induced injury in both the liver and the kidney. Lind RC, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):201–7

Induction of hsp 70 in HepG2 cells in response to hepatotoxicants. Salminen WF Jr, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):117–23

BROMOCRIPTINE

ADMINISTRATION & DOSAGE

Nasal spray bromocriptine: effects on serum prolactin in puerperal women. Cicinelli E, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):730–3

Large macroprolactinoma treated with bromocriptine alone. Loh KC, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):886–9

Bromocriptine treatment of tricyclic and heterocyclic antidepressant-resistant depression. Inoue T, et al. **Biol Psychiatry** 1996 Jul 15;40(2):151–3

Bromocriptine as adjunctive therapy to clozapine in treatment-resistant schizophrenia [letter] al-Semaan Y. **Can J Psychiatry** 1996 Sep;41(7):484–5

Synergism between long-acting bromocryptine microcapsules and cyclosporine A in the prevention of various autoimmune diseases in rats. Neidhart M. **Experientia** 1996 Sep 15;52(9):892–9

Nasal spray administration of bromocriptine: pharmacology and effect on serum prolactin level in puerperal women. Cicinelli E, et al. **Gynecol Endocrinol** 1996 Dec;10(6):391–6

The determination of additive effect and intraocular pressure lowering effects of 0.05% bromocriptine and 0.25% timolol. Elibol O, et al. **Int Ophthalmol** 1996-97; 20(1-3):53–5

Early institution of bromocriptine in Parkinson's disease inhibits the emergence of levodopa-associated motor side effects. Long-term results of the PRADO study. Przuntek H, et al. **J Neural Transm Gen Sect** 1996;103(6):699–715

The long-acting dopamine agonist bromocriptine mesylate as additive immunosuppressive drug after kidney transplantation. Clodi M, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):748–52

Continuous bromocriptine therapy in menstrual migraine. Herzog AG. **Neurology** 1997 Jan;48(1):101–2

Bromocriptine for inhibition of lactation [letter] Gunston GD. **S Afr Med J** 1996 Jul;86(7):845

ADVERSE EFFECTS

Oral prednisolone supplement abolishes the acute adverse effects following initiation of depot bromocriptine therapy. Jenkins PJ, et al. **Clin Endocrinol (Oxf)** 1996 Oct; 45(4):447–51

Myocardial infarction postpartum in patients taking bromocriptine for the prevention of breast engorgement. Hopp L, et al. **Int J Cardiol** 1996 Dec 13;57(3):227–32

Development of acromegaly during treatment of hyperprolactinemia with bromocriptine: an unusual acidophil stem cell adenoma. Page MD, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4484–7

Postpartum psychosis induced by bromocriptine and pseudoephedrine. Reeves RR, et al. **J Fam Pract** 1997 Aug; 45(2):164–6

Chiasmal herniation as a complication of bromocriptine therapy. Taxel P, et al. **J Neuroophthalmol** 1996 Dec; 16(4):252–7

The role of medico-legal reviews in medical research. Iffy L, et al. **Med Law** 1996;15(3):399–406

Stroke and pregnancy [letter; comment] Forcier GL. **N Engl J Med** 1997 Feb 27;336(9):665. Comment on: N Engl J Med 1996 Sep 12;335(11):768–74.

Intracerebral hemorrhage in normotensive mothers using bromocriptine postpartum [see comments] Iffy L, et al. **Zentralbl Gynakol** 1996;118(7):392–5. Comment in: Zentralbl Gynakol 1996;118(7):395–6.

[Benign angiopathy of the puerperium: a clinicoradiological case associated with ingestion of bromocriptine] Lucas C, et al. **Rev Med Interne** 1996;17(10):839–41 (12 ref.) (Eng. Abstr.) **(Fre)**

[Pleural effusion and severe edema of the lower limbs induced by bromocriptine] Messiaen T, et al. **Rev Med Interne** 1996; 17(8):680–3 (14 ref.) (Eng. Abstr.) **(Fre)**

[Raynaud phenomenon with organic microangiopathy and prolonged treatment with bromocriptine (letter)] Zenone T, et al. **Rev Med Interne** 1996;17(11):948–50 **(Fre)**

[Bromocriptine and puerperal seizures (comment)] von Werder K. **Zentralbl Gynakol** 1996;118(7):395–6. Comment on: Zentralbl Gynakol 1996;118(7):392–6. **(Ger)**

[Seizures as a late complication of bromocriptine therapy in patients with prolactin-producing macroadenomas: correlation between lateral extension of the adenoma and seizure onset] Niwa J, et al. **No Shinkei Geka** 1996 Oct; 24(10):913–9 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Enzyme immunoassays for bromocriptine and its metabolites. Valente D, et al. **J Immunoassay** 1996 Nov;17(4):297–320

BLOOD

High-performance liquid chromatographic assay of bromocriptine in plasma and eye tissue of the rabbit. Choi

YJ, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4; 694(2):415–20

DIAGNOSTIC USE

[Bromocriptine loading test] Azuma K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:256–8 (6 ref.) **(Jpn)**
[Bromocriptine provocative test] Takeda S, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:234–7 (8 ref.) **(Jpn)**

METABOLISM

Enzyme immunoassays for bromocriptine and its metabolites. Valente D, et al. **J Immunoassay** 1996 Nov;17(4):297–320
Contribution of cytochrome P450 3A pathway to bromocriptine metabolism and effects of ferrous iron and hypoxia–re–oxygenation on its elimination in the perfused rat liver. Matsubayashi K, et al. **J Pharm Pharmacol** 1997 May;49(5):551–7

PHARMACOLOGY

Effects of bromocriptine on the voluntary consumption of ethanol, water, and solid food by UChA and UChB rats. Mardones J, et al. **Alcohol** 1996 Jul–Aug;13(4):355–7
Effects of erythropoietin, bromocryptine and hydralazine on testicular function in rats with chronic renal failure. Yamamoto Y, et al. **Andrologia** 1997 May–Jun;29(3):141–4
Inhibitory effects of bromocriptine on vascular smooth muscle cell proliferation. Zhang Y, et al. **Atherosclerosis** 1997 Aug;133(1):37–44
Bromocriptine has little direct effect on murine lymphocytes, the immunomodulatory effect being mediated by the suppression of prolactin secretion. Neidhart M. **Biomed Pharmacother** 1997;51(3):118–25
Effects of bromocriptine and/or L–DOPA on neurons in substantia nigra of MPTP–treated C57BL/6 mice. Fukuda T, et al. **Brain Res** 1996 Jul 29;728(2):274–6
Neuroprotective effects of the dopamine agonists pramipexole and bromocriptine in 3–acetylpyridine–treated rats. Sethy VH, et al. **Brain Res** 1997 Apr 18;754(1–2):181–6
Effects of bromocriptine on serum prolactin levels, pituitary weight and immunoreactive prolactin cells in estradiol–treated ovariectomized rats: an experimental model of estrogen–dependent hyperprolactinemia. Ribeiro MF, et al. **Braz J Med Biol Res** 1997 Jan;30(1):113–7
Suppression of testosterone and estradiol–17beta–induced dysplasia in the dorsolateral prostate of Noble rats by bromocriptine. Lane KE, et al. **Carcinogenesis** 1997 Aug; 18(8):1505–10
Bromocriptine stimulates Na+, K(+)-ATPase in renal proximal tubules via the cAMP pathway. Hussain T, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):259–63
Bromocriptine is a strong inhibitor of brain nitric oxide synthase: possible consequences for the origin of its therapeutic effects. Renodon A, et al. **FEBS Lett** 1997 Apr 7;406(1–2):33–6
A steroidal pheromone and spawning stimuli act via different neuroendocrine mechanisms to increase gonadotropin and milt volume in male goldfish Carassius auratus. Zheng W, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):228–38
Attempts to pharmacologically modulate prolactin levels and type 1 autoimmune diabetes in the non–obese diabetic (NOD) mouse. Durant S, et al. **J Autoimmun** 1995 Dec; 8(6):875–85
Bromocriptine transcriptionally activates the multidrug resistance gene (pgp2/mdr1b) by a novel pathway. Furuya KN, et al. **J Biol Chem** 1997 Apr 25;272(17):11518–25
Nasal spray vs oral administration of bromocriptine: pharmacology and effect on serum prolactin in puerperal women. Cicinelli E, et al. **J Endocrinol Invest** 1996 Jul–Aug;19(7):427–32
Effect of bromocriptine on insulin, growth hormone and prolactin responses to arginine in obesity. Maccario M, et al. **J Endocrinol Invest** 1996 Apr;19(4):219–23
Modulation of protein kinases and microtubule–associated proteins and changes in ultrastructure in female rat pituitary cells: effects of estrogen and bromocriptine. Matsuno A, et al. **J Histochem Cytochem** 1997 Jun;45(6):805–13
Effects of bromocriptine on dopamine turnover with or without levodopa. Ogawa N, et al. **J Int Med Res** 1996 May–Jun;24(3):271–7
Alteration of G alpha subunits mRNA levels in bromocriptine resistant prolactinomas. Caccavelli L, et al. **J Neuroendocrinol** 1996 Oct;8(10):737–46
Metabolite involvement in bromocriptine–induced prolactin inhibition in rats. Valente D, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1418–24
Effect of bromocriptine on the sensitivity of pituitary tumor cells to radiation. Wang CJ, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Nov; 12(11):619–23
Bromocriptine–induced blockade of pregnancy affects sleep patterns in rats. Zhang SQ, et al. **Neuroimmunomodulation** 1996 Jul–Aug;3(4):219–26
Bromocriptine prevents neuron damage following inhibition of superoxide dismutase in cultured ventral spinal cord neurons. Iwasaki Y, et al. **Neurol Res** 1997 Aug; 19(4):389–92
Eye–blink rates and depression. Is the antidepressant effect of sleep deprivation mediated by the dopamine system? Ebert D, et al. **Neuropsychopharmacology** 1996 Oct; 15(4):332–9
Bromocriptine prevents spinal motor neuron death following sciatic nerve transection in neonatal rats. Iwasaki Y, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):139–42
Bromocriptine enhances feeding behavior without changing dopamine metabolism. Inoue K, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):183–8
Differential effects of dopaminergic drugs on anxiety and arousal in healthy volunteers with high and low anxiety. Mizuki Y, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 May; 21(4):573–90
Effects of bromocriptine on self–administration of sweetened ethanol solutions in rats. Nadal R, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):45–53
Effects of bromocriptine on lactation and plasma progesterone in Bettongia gaimardi, a Tasmanian macropodid marsupial. Rose RW, et al. **Reprod Fertil Dev** 1996;8(7):1061–7
MK–801 (dizocilpine): synergist and conditioned stimulus in bromocriptine–induced psychomotor sensitization. Wise RA, et al. **Synapse** 1996 Apr;22(4):362–8
Bromocriptine prevents the immunosuppression induced in mice by anti–lymphocytic antiserum. Rosso di San Secondo VE, et al. **Transplant Proc** 1996 Dec;28(6):3193–5

THERAPEUTIC USE

Age at onset: the major determinant of outcome in Parkinson's disease. Hely MA, et al. **Acta Neurol Scand** 1995 Dec;92(6):455–63
Pharmacological treatment for antisocial personality disorder alcoholics: a preliminary study. Penick EC, et al. **Alcohol Clin Exp Res** 1996 May;20(3):477–84
Bromocriptine for cocaine dependence. A controlled clinical trial. Handelsman L, et al. **Am J Addict** 1997 Winter; 6(1):54–64
Bromocriptine in the treatment of post–polio fatigue: a pilot study with implications for the pathophysiology of fatigue. Bruno RL, et al. **Am J Phys Med Rehabil** 1996 Sep–Oct; 75(5):340–7
Bromocriptine therapy in multiple sclerosis: an open label pilot study. Bissay V, et al. **Clin Neuropharmacol** 1994 Oct; 17(5):473–6
Prolactin response to bromocriptine in flunarizine–treated migrainous women. Cupini LM, et al. **Clin Neuropharmacol** 1997 Jun;20(3):234–8
Discontinuation of prolonged bromocriptine therapy in Parkinson's disease patients with uncontrolled motor oscillations. Giménez–Roldán S, et al. **Clin Neuropharmacol** 1994 Oct;17(5):435–44
Early combination of bromocriptine and levodopa in Parkinson's disease: a prospective randomized study of two parallel groups over a total follow–up period of 44 months including an initial 8–month double–blind stage. Giménez–Roldán S, et al. **Clin Neuropharmacol** 1997 Feb; 20(1):67–76
Bromocriptine (Ergoset) reduces body weight and improves glucose tolerance in obese subjects. Cincotta AH, et al. **Diabetes Care** 1996 Jun;19(6):667–70
Octreotide and bromocriptine suppress thyroid hormone levels and thyroid nodule in an acromegalic patient with nontoxic autonomous goiter. Sakane N, et al. **Endocr J** 1997 Apr;44(2):305–10
Prolactinomas resistant to bromocriptine: long–term efficacy of quinagolide and outcome of pregnancy. Morange I, et al. **Eur J Endocrinol** 1996 Oct;135(4):413–20
Outcome of pregnancies in women with treated or untreated hyperprolactinemia. Rossi AM, et al. **Eur J Obstet Gynecol Reprod Biol** 1995 Dec;63(2):143–6
15–year–old boy with ocular palsy and headache. Invasive macroprolactinoma. Minniti G, et al. **Eur J Pediatr** 1996 Aug;155(8):717–9
Bromocriptine therapy in early–stage Parkinson's disease. Fukuyama H, et al. **Eur Neurol** 1996;36(3):164–70
Nine–year follow–up study of bromocriptine monotherapy for Parkinson's disease. Kowa H, et al. **Eur Neurol** 1997; 38 Suppl 1:23–8
Eight–year follow–up study of bromocriptine monotherapy for Parkinson's disease. Tashiro K, et al. **Eur Neurol** 1996; 36 Suppl 1:32–7
Hyperprolactinemia in postmenopausal women. Maor Y, et al. **Fertil Steril** 1997 Apr;67(4):693–6
Transformation of a human mixed GH–PRL adenoma cell population in response to long–term bromocriptine treatment. Bácsy E, et al. **Folia Histochem Cytobiol** 1997; 35(2):69–74
Lisuride and bromocryptine in L–Dopa stable–responder parkinsonian patients: a comparative, double–blind evaluation of cardiopressor and neurochemical effects. Micieli G, et al. **Funct Neurol** 1996 Nov–Dec;11(6):317–25
Daily cocaine use patterns: effects of contextual and psychological variables. Palij M, et al. **J Addict Dis** 1996; 15(4):13–37
Effect of different dopaminergic agents in the treatment of acromegaly. Colao A, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):518–23
Acute effects of bromocriptine, cyproheptadine, and valproic acid on plasma adrenocorticotropin secretion in Nelson's syndrome. Mercado–Asis LB, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):514–7
Effects of the D2 receptor agonist bromocriptine on sleep bruxism: report of two single–patient clinical trials. Lobbezoo F, et al. **J Dent Res** 1997 Sep;76(9):1610–4
Treatment with long acting repeatable bromocriptine (Parlodel–LAR®) in patients with macroprolactinomas: long–term study in 29 patients. Jamrozik SI, et al. **J Endocrinol Invest** 1996 Jul–Aug;19(7):472–9
Effect of oral bromocriptine on intraocular pressure [letter] Geyer O, et al. **J Glaucoma** 1996 Aug;5(4):298
Symptoms of pituitary apoplexy rapidly reversed with bromocriptine. Case report. Brisman MH, et al. **J Neurosurg** 1996 Dec;85(6):1153–5
Tolcapone, bromocriptine, and Parkinson's disease. French Tolcapone Study Group [letter] Agid Y, et al. **Lancet** 1997 Sep 6;350(9079):712–3
Bromocriptine/SKF38393 treatment ameliorates obesity and associated metabolic dysfunctions in obese (ob/ob) mice. Cincotta AH, et al. **Life Sci** 1997;61(10):951–6
Aldosterone response to metoclopramide in patients with prolactinoma: effect of short–term bromocriptine treatment. Zacharieva S, et al. **Methods Find Exp Clin Pharmacol** 1996 Nov;18(9):593–7
Macroprolactinomas as cause of delayed puberty. A report of two cases and effects of medical therapy. Minniti G, et al. **Minerva Endocrinol** 1996 Jun;21(2):67–71
Double–blind comparison of cabergoline and bromocriptine in Parkinson's disease patients with motor fluctuations. Inzelberg R, et al. **Neurology** 1996 Sep;47(3):785–8
Bromocriptine as an adjuvant to cyclosporine immunosuppression after renal transplantation. Yongjin J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):297
[Management of pituitary adenoma in pregnancy] Cheng W, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Sep; 31(9):537–9 (Eng. Abstr.) **(Chi)**
[Using bromocriptine vaginally for the treatment of hyperprolactinemia] Hafidi A, et al. **Contracept Fertil Sex** 1996 Jan;24(1):11–4 **(Fre)**

BROMOCRYPTIN see **BROMOCRIPTINE**

BROMODEOXYURIDINE

Application of 5–bromo–2'deoxyuridine as a label for in situ hybridization in chromosome microdissection and painting, and 3' OH DNA end labeling for apoptosis. Mühlmann–Diaz MC, et al. **Biotechniques** 1996 Jul; 21(1):82–6
K–ras codon 12 and 61 point mutations in bromodeoxyuridine– and N–nitrosomethylurea–induced rat renal mesenchymal tumors. Calvert RJ, et al. **Cancer Lett** 1996 Dec 3;109(1–2):1–7
Advances in high resolution SIMS studies of BrdU–labelled human metaphase chromosomes. Levi–Setti R, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 May;42(3):301–24
Estimation of the duration of the cycle of the seminiferous epithelium in the non–human primate Macaca mulatta using the 5–bromodeoxyuridine technique. Rosiepen G, et al. **Cell Tissue Res** 1997 May;288(2):365–9
Comparison of Vindelov et al. and bromodeoxyuridine/DNA double–staining flow cytometry methods for analysis of cell cycle distribution in rat thymocytes. Orfao A, et al. **Cytometry** 1996 Sep 1;25(1):104–8
Immunoseparation and immunodetection of nucleic acids labeled with halogenated nucleotides. Haider SR, et al. **Exp Cell Res** 1997 Aug 1;234(2):498–506
Spontaneous rate of sister chromatid exchanges (SCEs) and BrdU dose–response relationships in mitotic chromosomes of goat (Capra hircus L.). Di Berardino D, et al. **Hereditas** 1996;124(2):137–43
New insights into the cytodynamics of the hamster Harderian gland as provided by the bromodeoxyuridine–labelling method. Fernandez–Suarez A, et al. **Histol Histopathol** 1996 Apr;11(2):351–5
Measurement of replicative DNA synthesis (RDS) by a 5–bromo–2'–deoxyuridine (BrdU) labeling technique for detection of hepatocyte proliferation. Miyagawa M, et al. **J Vet Med Sci** 1997 Jan;59(1):45–9
Analysis of cell proliferation using the bromodeoxyuridine/Hoechst–ethidium bromide method. Ormerod MG. **Methods Mol Biol** 1997;75:357–65 (12 ref.)
Proliferation of murine myoblasts as measured by bromodeoxyuridine incorporation. Shah B, et al. **Methods Mol Biol** 1997;75:349–55 (3 ref.)

ADMINISTRATION & DOSAGE

Region–specific DNA synthesis in brains of F344 rats following a six–day bromodeoxyuridine infusion. Bolon B, et al. **Cell Prolif** 1996 Sep;29(9):505–11
A phase I trial of intravenous bromodeoxyuridine and radiation therapy for pancreatic cancer. Robertson JM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):331–5

ANALOGS & DERIVATIVES

Multiparametric cell–cycle analysis of peripheral blood–activated lymphocyte subsets using staining based on the TdT method for incorporated BrdUrd. Dolbeare F, et al. **Cytometry** 1996 Dec 1;25(4):317–23
Evaluation of antiherpetic compounds using a gastric cancer cell line: pronounced activity of BVDU against herpes simplex virus replication. Kodama E, et al. **Microbiol Immunol** 1996;40(5):359–63
Anti–recombinogenic and convertible co–mutagenic effects of (E)–5–(2–bromovinyl)–2'–deoxyuridine (BVDU) and other 5–substituted pyrimidine nucleoside analogs in S. cerevisiae MP1. Fahrig R. **Mutat Res** 1996 Nov 11;

372(1):133–9
Direct determination of drug content in semisolid formulations using step-scan FT-IR photoacoustic spectroscopy. Neubert R, et al. **Pharm Res** 1997 Jul; 14(7):946–8

ANALYSIS

Scanning ion analytical microscopy for high-resolution detection of 5-bromo-2'-deoxyuridine incorporation in metaphase chromosomes. Bourgeois CA, et al. **Chromosome Res** 1996 Dec;4(8):574–82
A comparison of proliferation markers (BrdUrd, Ki-67, PCNA) determined at each cell position in the crypts of normal human colonic mucosa. Bromley M, et al. **Eur J Histochem** 1996;40(2):89–100
Protease antigen recovery decreases the specificity of bromodeoxyuridine detection in formalin-fixed tissue. Bak PM, et al. **J Histochem Cytochem** 1997 Aug;45(8):1165–70
Detection of bromodeoxyuridine (BrdU) in semi-thin sections of routine electron microscopic specimens digested with trypsin. Kondo K, et al. **J Vet Med Sci** 1996 Jun; 58(6):583–5
Histological grade in invasive ductal carcinoma of breast correlates with the proliferative activity evaluated by BrdU: an immunohistochemical study including correlations with p53, c-erbB-2 and estrogen receptor status. Moriki T, et al. **Pathol Int** 1996 Jun;46(6):417–25
Proliferative activity in breast carcinoma evaluated by BrdU and PCNA. Correlation with expression of p53, c-erbB-2, estrogen receptor and P-glycoprotein. Moriki T, et al. **Pathol Res Pract** 1995 Nov;191(11):1122–32

CHEMISTRY

A transition probability cell cycle model simulation of bivariate DNA/bromodeoxyuridine distributions. Cain SJ, et al. **Cytometry** 1997 Mar 1;27(3):239–49
Bromodeoxyuridine: a diagnostic tool in biology and medicine, Part III. Proliferation in normal, injured and diseased tissue, growth factors, differentiation, DNA replication sites and in situ hybridization. Dolbeare F. **Histochem J** 1996 Aug;28(8):531–75 (539 ref.)

DIAGNOSTIC USE

DNA resynthesis and binucleated metamorphosis in cardiac muscle cells after isoproterenol-induced injury: bromodeoxyuridine immunohistochemistry. Ishido S, et al. **Am J Cardiovasc Pathol** 1995;5(1):49–54
Proliferative activity in the different ovarian compartments in cycling rats estimated by the 5-bromodeoxyuridine technique. Gaytan F, et al. **Biol Reprod** 1996 Jun; 54(6):1356–65
Reproducibility of the measurement of colonic proliferation using bromodeoxyuridine across laboratories. Roe DJ, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May; 5(5):349–53
Cell cycle kinetic studies in 68 patients with myelodysplastic syndromes following intravenous iodo- and/or bromodeoxyuridine. Raza A, et al. **Exp Hematol** 1997 Jun; 25(6):530–5
Immunohistochemical demonstration of S-phase cells by anti-bromodeoxyuridine monoclonal antibody in cattle tissues. Yanai T, et al. **J Comp Pathol** 1996 Apr; 114(3):265–72
Prognostic significance of the bromodeoxyuridine labeling index in primary colorectal carcinoma. Kitagawa T, et al. **Surg Today** 1997;27(7):613–6
[Determination of the bromodeoxyuridine index in multiple myeloma. II. Relation to level of advancement and disease activity] Ščudla V, et al. **Vnitr Lek** 1996 Aug;42(8):545–50 (Eng. Abstr.) **(Cze)**
[Determination of the proliferative activity of breast cancer cells using 5-bromo-2'-deoxyuridine in vivo] Uporov AV, et al. **Vopr Onkol** 1997;43(2):176–82 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Auditory epithelial migration. III: An immunohistologic study using anti-BrdU antibody on tympanic membrane in mouse. Kakoi H, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):414–21
Early events of liver regeneration in rats: a multiparametric analysis. Baratta B, et al. **Histochem Cell Biol** 1996 Jan; 105(1):61–9

METABOLISM

Hypoxia increases bromodeoxyuridine labeling indices in bovine neonatal pulmonary arteries. Belknap JK, et al. **Am J Respir Cell Mol Biol** 1997 Apr;16(4):366–71
Investigations of BrdU incorporation in roe deer blastocysts in vitro. Lengwinat T, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):103–7
Detection of S-phase cells in smear cytology using in vitro bromodeoxyuridine labeling. Sekine J, et al. **Biotech Histochem** 1996 May;71(3):152–6
High-resolution analysis of DNA replication in released chromatin fibers containing 5-bromodeoxyuridine. Haaf T. **Biotechniques** 1996 Dec;21(6):1050–4
Pattern of bromodeoxyuridine incorporation in the advanced stages of arm regeneration in the feather star Antedon mediterranea. Candia Carnevali MD, et al. **Cell Tissue Res** 1997 Aug;289(2):363–74
A transition probability cell cycle model simulation of bivariate DNA/bromodeoxyuridine distributions. Cain SJ, et al. **Cytometry** 1997 Mar 1;27(3):239–49
Comparative scoring by visual and image analysis of cells in human solid tumors labeled for proliferation markers. Weaver JR, et al. **Cytometry** 1997 Feb 1;27(2):189–99
Argyrophilic nucleolar organizer regions, bromodeoxyuridine labelling index and DNA ploidy in squamous cell carcinoma of the uterine cervix. Gasińska A, et al. **Folia Histochem Cytobiol** 1996;34(2):95–101
Cell proliferation and hair cell addition in the ear of the goldfish, Carassius auratus. Lanford PJ, et al. **Hear Res** 1996 Oct;100(1–2):1–9
In-situ end labelling with bromodeoxyuridine--an advanced technique for the visualization of apoptotic cells in histological specimens. Aschoff A, et al. **Horm Metab Res** 1996 Jul;28(7):311–4
Bromo-deoxyuridine based assay for detection of parasite and drug sensitivity in Plasmodium falciparum in vitro. Biswas S, et al. **Indian J Exp Biol** 1996 Dec;34(12):1237–40
In vivo determination of 5-bromo-2'-deoxyuridine incorporation into DNA tumor tissue by a new 32P-postlabelling thin-layer chromatographic method. Steinberg JJ, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):333–41
Novel method to investigate kinetics of rat skin cells by means of an occlusive dressing method using bromodeoxyuridine. Nakano R, et al. **J Dermatol Sci** 1997 Jan;14(1):54–62
Incorporation of bromodeoxyuridine (BrdU) in the bronchiolar-alveolar regions of the lungs following two inhalation exposures to chrysotile asbestos in strain A/J mice. Dixon D, et al. **J Environ Pathol Toxicol Oncol** 1995; 14(3–4):205–13
Incorporation of bromodeoxyuridine in regenerating fin tissue of the goldfish Carassius auratus. Santamaría JA, et al. **J Exp Zool** 1996 Jul 1;275(4):300–7
A comparison of the predictive power for survival in gliomas provided by MIB-1, bromodeoxyuridine and proliferating cell nuclear antigen with histopathologic and clinical parameters. McKeever PE, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):798–805
Decrease of prostaglandin E2 and 5-bromo-2'-deoxyuridine labeling but not prostate tumor development by indomethacin treatment of rats given 3,2'-dimethyl-4-aminobiphenyl and testosterone propionate. Kawabe M, et al. **Jpn J Cancer Res** 1997 Apr; 88(4):350–5
Immunohistochemical demonstration with anti-bromodeoxyuridine monoclonal antibody in experimental meningeal carcinomatosis model. Huang TY, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Mar; 13(3):136–40
Imaging of BrdU-labeled human metaphase chromosomes with a high resolution scanning ion microprobe. Levi-Setti R, et al. **Microsc Res Tech** 1997 Feb 15;36(4):301–12
Proliferation marker MIB-1 correlates well with proliferative activity evaluated by BrdU in breast cancer: an immunohistochemical study including correlation with PCNA, p53, c-erbB-2 and estrogen receptor status. Moriki T, et al. **Pathol Int** 1996 Dec;46(12):953–61
Monitoring engraftment of transplanted hepatocytes in recipient liver with 5-bromo-2'-deoxyuridine. de Roos WK, et al. **Transplantation** 1997 Feb 27;63(4):513–8
[Bromodeoxyuridine (BrdU). Analysis of cellular proliferation] Bosq J, et al. **Ann Pathol** 1997 Jul;17(3):171–8 (71 ref.) **(Fre)**

PHARMACOKINETICS

Regional pharmacokinetics of 5-bromo-2'-deoxyuridine and 5-fluorouracil in dogs: hepatic arterial versus portal venous infusions. Kuan HY, et al. **Cancer Res** 1996 Oct 15; 56(20):4724–7
Anti-BrdUrd labeling of newly synthesized DNA in HL-60 cells triggered to apoptosis. Zamai L, et al. **Cytometry** 1996 Dec 1;25(4):324–32
Long-term oral application of 5-bromo-2-deoxyuridine does not reliably label proliferating immune cells in the LEW rat. Jecker P, et al. **J Histochem Cytochem** 1997 Mar; 45(3):393–401
Fluorescein-labeled tyramide strongly enhances the detection of low bromodeoxyuridine incorporation levels. Van Heusden J, et al. **J Histochem Cytochem** 1997 Feb; 45(2):315–9
Comparison of bromodeoxyuridine uptake and MIB 1 immunoreactivity in medulloblastomas determined with single and double immunohistochemical staining methods. Onda K, et al. **J Neurooncol** 1996 Aug;29(2):129–36

PHARMACOLOGY

Increased levels of alpha V-associated integrins in association with growth inhibition of cultured tumor cells by bromodeoxyuridine. Yoshihara T, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):833–8
Bromodeoxyuridine-induced expression of endothelin A in A375 human melanoma cells. Ohtani T, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):526–30
Sensitization to DNA damage by okadaic acid or bromodeoxyuridine involves unequal effects on melanoma cell adhesion and differentiation. Rieber MS, et al. **DNA Cell Biol** 1997 Feb;16(2):121–5
MTX-block during S-phase in BrdU-treated cells depends on species and medium used. Di Meo GP, et al. **Hereditas** 1996;124(3):233–6
Modification of potentially lethal damage in irradiated Chinese hamster V79 cells after incorporation of halogenated pyrimidines. Franken NA, et al. **Int J Radiat Biol** 1997 Jul;72(1):101–9
5-Bromo-2'-deoxyuridine stimulates the pituitary-adrenal axis in the rat: an effect blocked partially by endothelin-receptor antagonists. Malendowicz LK, et al. **J Int Med Res** 1996 Jul-Aug;24(4):363–8
Immunocytochemistry of apoptosis induced by bromodeoxyuridine in human leukemic HL-60 cells. Kondo K, et al. **Jpn J Cancer Res** 1997 Jan;88(1):44–8
In vitro induction of micronuclei in lymphocytes: the use of bromodeoxyuridine as a proliferation marker. Montero-Montoya R, et al. **Mutat Res** 1997 Jul 14; 391(3):135–41

RADIATION EFFECTS

Radiolytic products of bromodeoxyuridine in solids by 60Co gamma-rays and monoenergetic soft x-rays at the K-absorption edge of bromine. Furusawa Y, et al. **Acta Oncol** 1996;35(7):877–82

TOXICITY

Reproductive effects of prenatal exposure to 5-bromo-2'-deoxyuridine on male rats. Nagao T, et al. **Reprod Toxicol** 1997 Jan-Feb;11(1):37–45
Effects of prenatal exposure to 5-bromo-2'-deoxyuridine on reproductive function in male mouse offspring. Nagao T, et al. **Reprod Toxicol** 1997 Sep-Oct;11(5):663–73

2-BROMOERGOCRYPTINE see **BROMOCRIPTINE**

BROMOURACIL

ANALOGS & DERIVATIVES

Lethal drug interactions of sorivudine, a new antiviral drug, with oral 5-fluorouracil prodrugs [corrected and republished in Drug Metab Dispos 1997 May;25(5):270–3] Okuda H, et al. **Drug Metab Dispos** 1997 Feb;25(2):270–3
Intestinal anaerobic bacteria hydrolyse sorivudine, producing the high blood concentration of 5-(E)-(2-bromovinyl)uracil that increases the level and toxicity of 5-fluorouracil. Nakayama H, et al. **Pharmacogenetics** 1997 Feb;7(1):35–43

CHEMISTRY

Photoreaction of 5-bromouracil-containing DNA. Fujimoto K, et al. **Nucleic Acids Symp Ser** 1995;(34):25–6

BROMOURACIL DEOXYRIBOSIDE see **BROMODEOXYURIDINE**

BROMOVALCARBAMIDE see **BROMISOVALUM**

BROMOVALERYLUREA see **BROMISOVALUM**

BROMOVIRIDAE

GENETICS

The nucleotide sequence of RNA1 and RNA2 of olive latent virus 2 and its relationships in the family Bromoviridae. Grieco F, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2637–44

BROMOVIRUS

ENZYMOLOGY

Brome mosaic virus helicase- and polymerase-like proteins colocalize on the endoplasmic reticulum at sites of viral RNA synthesis. Restrepo-Hartwig MA, et al. **J Virol** 1996 Dec;70(12):8908–16
Initiation of (-)-strand RNA synthesis catalyzed by the BMV RNA-dependent RNA polymerase: synthesis of oligonucleotides. Sun JH, et al. **Virology** 1996 Dec 1; 226(1):1–12
RNA synthesis by the brome mosaic virus RNA-dependent RNA polymerase: transition from initiation to elongation. Sun JH, et al. **Virology** 1997 Jun 23;233(1):63–73

GENETICS

The complete nucleotide sequence of the RNA 3 of lilac ring mottle ilarvirus. Scott SW, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1801–6
In vivo DNA expression of functional brome mosaic virus RNA replicons in Saccharomyces cerevisiae. Ishikawa M, et al. **J Virol** 1997 Oct;71(10):7781–90
Initiation of minus-strand RNA synthesis by the brome mosaicvirus RNA-dependent RNA polymerase: use of oligoribonucleotide primers. Kao CC, et al. **J Virol** 1996 Oct;70(10):6826–30
Engineering of homologous recombination hotspots with AU-rich sequences in brome mosaic virus. Nagy PD, et al. **J Virol** 1997 May;71(5):3799–810
A mutation in the putative RNA polymerase gene inhibits nonhomologous, but not homologous, genetic recombination in an RNA virus. Figlerowicz M, et al.

Proc Natl Acad Sci U S A 1997 Mar 4;94(5):2073–8
Minimal templates directing accurate initiation of subgenomic RNA synthesis in vitro by the brome mosaic virus RNA–dependent RNA polymerase. Adkins S, et al. **RNA** 1997 Jun;3(6):634–47
Analysis of a salt stable mutant of cowpea chlorotic mottle virus. Fox JM, et al. **Virology** 1996 Aug 1;222(1):115–22
Deletions in the 3' untranslated region of cowpea chlorotic mottle virus transgene reduce recovery of recombinant viruses in transgenic plants. Greene AE, et al. **Virology** 1996 Nov 1;225(1):231–4
Effect of 5' and 3' terminal sequences, overall length, and coding capacity on the accumulation of defective RNAs associated with broad bean mottle bromovirus in planta. Pogany J, et al. **Virology** 1997 Feb 17;228(2):236–43

GROWTH & DEVELOPMENT

The carboxy–terminal two–thirds of the cowpea chlorotic mottle bromovirus capsid protein is incapable of virion formation yet supports systemic movement. Schneider WL, et al. **J Virol** 1997 Jun;71(6):4862–5

ISOLATION & PURIFICATION

Structure–based rationale for the rescue of systemic movement of brome mosaic virus by spontaneous second–site mutations in the coat protein gene. Flasinski S, et al. **J Virol** 1997 Mar;71(3):2500–4

METABOLISM

Molecular modeling of the RNA binding N–terminal part of cowpea chlorotic mottle virus coat protein in solution with phosphate ions. van der Spoel D, et al. **Biophys J** 1996 Dec;71(6):2920–32

PATHOGENICITY

Effects of coat protein mutations and reduced movement protein expression on infection spread by cowpea chlorotic mottle virus and its hybrid derivatives. De Jong W, et al. **Virology** 1997 May 26;232(1):167–73
A single codon change in a conserved motif of a bromovirus movement protein gene confers compatibility with a new host. Fujita Y, et al. **Virology** 1996 Sep 15;223(2):283–91

PHYSIOLOGY

Tubule–forming capacity of the movement proteins of alfalfa mosaic virus and brome mosaic virus. Kasteel DT, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2089–93
Deletion of the C–terminal 33 amino acids of cucumber mosaic virus movement protein enables a chimeric brome mosaic virus to move from cell to cell. Nagano H, et al. **J Virol** 1997 Mar;71(3):2270–6
Analysis of the interaction of viral RNA replication proteins by using the yeast two–hybrid assay. O'Reilly EK, et al. **J Virol** 1997 Oct;71(10):7526–32
Characterization of a disassembly deficient mutant of cowpea chlorotic mottle virus. Fox JM, et al. **Virology** 1997 Jan 6;227(1):229–33
Molecular studies on bromovirus capsid protein. III. Analysis of cell–to–cell movement competence of coat protein defective variants of cowpea chlorotic mottle virus. Rao AL. **Virology** 1997 Jun 9;232(2):385–95
Molecular studies on bromovirus capsid protein. II. Functional analysis of the amino–terminal arginine–rich motif and its role in encapsidation, movement, and pathology. Rao AL, et al. **Virology** 1996 Dec 15; 226(2):294–305
Molecular studies on bromovirus capsid protein. I. Characterization of cell–to–cell movement–defective RNA3 variants of brome mosaic virus. Schmitz I, et al. **Virology** 1996 Dec 15;226(2):281–93

ULTRASTRUCTURE

Quasi–equivalent viruses: a paradigm for protein assemblies. Johnson JE, et al. **J Mol Biol** 1997 Jun 27;269(5):665–75 (35 ref.)

BROMPHENIRAMINE

ADMINISTRATION & DOSAGE

A double–blind, placebo–controlled trial of decongestant–antihistamine for the treatment of sinusitis in children. McCormick DP, et al. **Clin Pediatr (Phila)** 1996 Sep;35(9):457–60

POISONING

Alkylamine antihistamine toxicity and review of Pediatric Toxicology Registry of the National Association of Medical Examiners. Report 4: Alkylamines. Jumbelic MI, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):65–9

THERAPEUTIC USE

Brompheniramine, terfenadine, and placebo in allergic rhinitis [see comments] Klein GL, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):365–70. Comment in: Ann Allergy Asthma Immunol 1996 Nov;77(5):337–40.
The eternal triangle: benefit, risk, and cost of therapeutic agents [editorial; comment] Simons FE. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):337–40 (45 ref.). Comment on: Ann Allergy Asthma Immunol 1996 Nov;77(5):365–70.
Is an antihistamine–decongestant combination effective in temporarily relieving symptoms of the common cold in preschool children? Clemens CJ, et al. **J Pediatr** 1997 Mar; 130(3):463–6

BROMPHENOL BLUE

Incorporation of bromophenol blue enhances visibility of polyacrylamide gels. Cathey JC, et al. **Biotechniques** 1997 Feb;22(2):222

METABOLISM

On the role of lysine residues in the bromophenol blue–albumin interaction. Trivedi VD. **Ital J Biochem** 1997 Jun;46(2):67–73

PHARMACOKINETICS

Absorption of phenol red and bromphenol blue as model drugs from the peritoneal cavity around the liver surface in rats. Nishida K, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):1032–5

BROMSULPHALEIN see **SULFOBROMOPHTHALEIN**

BROMTHYMOL BLUE

CHEMISTRY

Use of urease–bromothymol blue–agar method for large–scale testing of urine on grain and seeds. Valdes PA, et al. **J AOAC Int** 1996 Jul–Aug;79(4):866–73

BROMVALETON see **BROMISOVALUM**

BROMYL see **BROMISOVALUM**

BRONCHI

see related
BRONCHOCONSTRICTOR AGENTS
BRONCHODILATOR AGENTS
BRONCHOGRAPHY
BRONCHOSCOPY

Use of the Univent System tube for difficult intubation and for achieving one–lung anaesthesia. García–Aguado R, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):765–7
Foreign bodies in the airway: eighteen–year retrospective study. Yamamoto S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:6–8
Tumour fragment in the airway detected by intraoperative fibreoptic examination. Sakura S, et al. **Anaesth Intensive Care** 1996 Apr;24(2):265–6
Accidental bronchial intubation [letter; comment] Beasley JM. **Anaesthesia** 1997 Jul;52(7):714–5. Comment on: Anaesthesia 1997 Jan;52(1):24–31.
Changes in tracheal tube position during laparoscopic cholecystectomy [see comments] Inada T, et al. **Anaesthesia** 1996 Sep;51(9):823–6. Comment in: Anaesthesia 1997 Feb;52(2):189.
Accidental bronchial intubation [letter; comment] Lindsay WA. **Anaesthesia** 1997 Jul;52(7):715. Comment on: Anaesthesia 1997 Jan;52(1):24–31.
Accidental bronchial intubation. An analysis of AIMS incident reports from 1988 to 1994 inclusive [see comments] McCoy EP, et al. **Anaesthesia** 1997 Jan;52(1):24–31. Comment in: Anaesthesia 1997 Jul;52(7):714–5. Comment in: Anaesthesia 1997 Jul;52(7):715.
The cardiovascular responses to double lumen endobronchial intubation and the effect of esmolol. Thompson JP, et al. **Anaesthesia** 1997 Aug;52(8):790–4
Independent placement of a bronchial blocker for single–lung ventilation: an alternative method for the difficult airway. Harvey SC, et al. **Anesth Analg** 1996 Dec;83(6):1330–1
Unresolving pneumonia in a child? Look for an aspirated foreign body. de Silva GD, et al. **Ceylon Med J** 1996 Dec; 41(4):159
Foreign body aspiration into the lower airway in Chinese adults. Chen CH, et al. **Chest** 1997 Jul;112(1):129–33
Importance of diffuse aspiration bronchiolitis caused by chronic occult aspiration in the elderly. Matsuse T, et al. **Chest** 1996 Nov;110(5):1289–93
Crunchy peanut butter: a cause of foreign body aspiration in children. Roberts JR, et al. **Clin Pediatr (Phila)** 1996 Nov;35(11):591–2
Aspiration of a tooth in a patient with a tracheostomy [letter] Steelman R, et al. **Clin Pediatr (Phila)** 1997 May; 36(5):309–10
Foreign body aspiration in children: experience from Ethiopia. Melaku G. **East Afr Med J** 1996 Jul;73(7):459–62
Impact of community educational programmes on foreign body aspiration in Israel [letter; comment] Hussein A. **Eur J Pediatr** 1996 Jun;155(6):523. Comment on: Eur J Pediatr 1995 Oct;154(10):859–62.
Bronchiolar aerosol deposition and clearance [editorial; comment] Agnew JE. **Eur Respir J** 1996 Jun;9(6):1118–22 (43 ref.). Comment on: Eur Respir J 1996 Jun;9(6):1123–9.
Severe endobronchial obstruction in a girl with relapsing polychondritis: treatment with Nd YAG laser and endobronchial silicon stent. Sacco O, et al. **Eur Respir J** 1997 Feb;10(2):494–6
A simple technique for contralateral left bronchial intubation in children undergoing right thoracotomy or thoracoscopy [letter] Baraka A. **J Cardiothorac Vasc Anesth** 1997 Aug; 11(5):684–5
A comparison of two different bronchial cuff designs and four different bronchial cuff inflation methods. Guyton DC, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):599–603
Mainstem bronchial intubation: an unrecognized source of hypotension during coronary artery bypass surgery. Tovar EA, et al. **J Cardiothorac Vasc Anesth** 1997 Aug; 11(5):615–8
Intraoperative management of distal tracheal rupture with selective bronchial intubation. Lobato EB, et al. **J Clin Anesth** 1997 Mar;9(2):155–8
Endobronchial cockroach: an unusual foreign body aspiration. Marlow TJ, et al. **J Emerg Med** 1997 Jul–Aug; 15(4):487–9
Bronchial foreign bodies in adults. Lai YF, et al. **J Formos Med Assoc** 1996 Mar;95(3):213–7
Fortuitous discovery of an aspirated denture flange during bronchoscopy. Whitesides LM, et al. **J Oral Maxillofac Surg** 1997 Apr;55(4):408–10
Sand aspiration: a case report. Choy IO, et al. **J Pediatr Surg** 1996 Oct;31(10):1448–50 (5 ref.)
Endourologic removal of upper airway foreign objects: case report. Horowitz M, et al. **J Pediatr Surg** 1996 Dec; 31(12):1727–8
Foreign bodies in the tracheobronchial tree in Sudanese patients. Yagi HI. **J R Coll Surg Edinb** 1997 Aug; 42(4):235–7
Aspiration of shattered windshield glass after blind nasotracheal intubation in a motor vehicle crash. Madhere S, et al. **J Trauma** 1997 Aug;43(2):353–6
Transthoracic bronchial intubation in a case of main bronchus disruption. Rupprecht H, et al. **J Trauma** 1996 Nov; 41(5):895–8
Management of pediatric aspirated foreign bodies. Deskin R, et al. **Laryngoscope** 1997 Apr;107(4):540–3
Nd:YAG laser and tracheobronchial metallic stents: an experimental in vitro study. Witt C, et al. **Lasers Surg Med** 1997;20(1):51–5
Problems with the retrieval of long–standing inhaled foreign bodies in children. Barbato A, et al. **Monaldi Arch Chest Dis** 1996 Oct;51(5):419–20
Images in clinical medicine. Sand as a foreign body [see comments] [published erratum appears in N Engl J Med 1997 Oct 16;337(16):1175] Petitti N. **N Engl J Med** 1997 Jul 10;337(2):96. Comment in: N Engl J Med 1997 Oct 16;337(16):1175.
The shocking lung mass: a case report. Mahajan S, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1398–9
Right bevelled tube for selective left bronchial intubation in a child undergoing right thoracotomy. Baraka A. **Paediatr Anaesth** 1996;6(6):487–9
Massive bronchoalveolar aspiration of barium sulfate during a radiologic study of the upper digestive tract [letter] López–Castilla JD, et al. **Pediatr Pulmonol** 1997 Aug; 24(2):126–7
Bronchoesophageal fistula secondary to aspiration of tongue adhesion button in a child with glossoptosis. Zunzunegui J, et al. **Pediatr Pulmonol** 1997 Feb;23(2):120–2
Index of suspicion Case #1 presentation. Toledo–Valido M. **Pediatr Rev** 1996 Feb;17(2):65–6
Bronchial foreign body: should bronchoscopy be performed in all patients with a choking crisis? Barrios Fontoba JE, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):118–20
A new method for removal of metallic–ferromagnetic foreign bodies from the tracheobronchial tree. Mayr J, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):461–2
Bronchiectasis resulting from aspirated grass inflorescences. Başok O, et al. **Scand Cardiovasc J** 1997;31(3):157–9 (8 ref.)
Gianturco stents in the tracheobronchial tree [letter; comment] Bolliger CT. **Thorax** 1997 Apr;52(4):400. Comment on: Thorax 1996 Mar;51(3):248–52.
Bronchoscopic foreign body removal using a cystoscope rod lens. Hodges AM, et al. **Trop Doct** 1997 Apr;27(2):113
[Intrabronchial inhaled seed migration. Value of ultrasonography in the diagnosis of pleural–cutaneous fistula] Giudicelli J, et al. **Rev Mal Respir** 1996;13(4):428–9 (Eng. Abstr.) **(Fre)**
[Tracheobronchial foreign body in children. Is anamnesis alone enough to indicate tracheobronchoscopy?] Caversaccio MD, et al. **HNO** 1996 Aug;44(8):440–4 (Eng. Abstr.) **(Ger)**
[Long–term unrecognized foreign body aspiration as the cause of pleural effusion] de Wall N, et al. **Med Klin** 1996 Sep 15;91(9):600–2 **(Ger)**
[Endobronchial foreign bodies: surgical indications] Buonsanto A, et al. **Minerva Chir** 1996 Nov; 51(11):997–1003 (Eng. Abstr.) **(Ita)**
[Endobronchial brachytherapy with high dose rate 192Ir afterloading technique using a new applicator] Nomoto Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan; 56(1):42–7 (Eng. Abstr.) **(Jpn)**
[Removal of bronchial foreign bodies by suction with a bronchoscope] Mita Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr;35(4):442–6 (Eng. Abstr.) **(Jpn)**
[Foreign body imitating bronchial neoplasm] Ochmański W, et al. **Przegl Lek** 1997;54(1):70–2 (Eng. Abstr.) **(Pol)**

[Foreign bodies in the tracheobronchial tree. 12 years' experience] Agostinho M, et al. **Acta Med Port** 1997 Feb-Mar;10(2-3):151-5 (Eng. Abstr.) **(Por)**

[Foreign-body aspiration] Pérez Prado MG, et al. **An Esp Pediatr** 1996 May;44(5):453-5 (Eng. Abstr.) **(Spa)**

[Intrabronchial foreign body in adults: usefulness of computerized tomography] Domingo Morera JA, et al. **Arch Bronconeumol** 1997 Apr;33(4):201-3 (Eng. Abstr.) **(Spa)**

[Prothesis in thoracic surgery (editorial)] Freixinet J. **Arch Bronconeumol** 1997 Feb;33(2):61-3 **(Spa)**

[Tracheal bronchiole (letter)] Gómez-Pastrana Durán D, et al. **Arch Bronconeumol** 1996 Oct;32(8):433 **(Spa)**

[Primary bronchial actinomycosis and foreign body] Mingrone H, et al. **Medicina (B Aires)** 1995;55(4):337-40 (5 ref.) (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Pediatric case of the day. Pulmonary sling with tracheal stenosis and bronchus suis. Berlin SC, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):305, 308

Tracheobronchomalacia in preterm infants with chronic lung disease. Doull IJ, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 May;76(3):F203-5

Esophageal bronchus in an infant diagnosed by fortuitous intubation of the esophagus during ventilation imaging. Kohne RE, et al. **Clin Nucl Med** 1996 Dec;21(12):990-3

Case report: bronchial atresia associated with pectus excavatum. Scholl RJ 3rd, et al. **Conn Med** 1997 May; 61(5):263-7 (15 ref.)

Congenital airway abnormalities requiring tracheotomy: a profile of 56 patients and their diagnoses over a 9 year period. Altman KW, et al. **Int J Pediatr Otorhinolaryngol** 1997 Aug 20;41(2):199-206

The syndrome of bronchial atresia or stenosis with mucocele and focal hyperinflation of the lung. Saadaoui H, et al. **J Belge Radiol** 1997 Feb;80(1):11

Successful bronchotracheal reconstruction in esophageal bronchus: two case reports. Michel JL, et al. **J Pediatr Surg** 1997 May;32(5):739-42

Anomalies of the tracheobronchial tree in patients with esophageal atresia. Usui N, et al. **J Pediatr Surg** 1996 Feb; 31(2):258-62

Materials for tracheoplasty: which work? which are best? [letter; comment] Browdie DA, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):810. Comment on: J Thorac Cardiovasc Surg 1996 Jul;112(1):124-9.

Sudden, unexpected death of a young marathon runner as a result of bronchial malformation. Sedivy R, et al. **Mod Pathol** 1997 Mar;10(3):247-51

Balloon dilation of congenital and acquired stenosis of the trachea and bronchi. Jaffe RB. **Radiology** 1997 May; 203(2):405-9

Isolation of the left subclavian artery in tetralogy of Fallot and bronchial anomalies. Kalis NN, et al. **S Afr Med J** 1997 Feb;87 Suppl 1:C25-8

Accessory cardiac bronchus presenting with haemoptysis. Keane MP, et al. **Thorax** 1997 May;52(5):490-1

[The late results of the surgical treatment of congenital anomalies of the bronchopulmonary system in childhood] Mikhaĭlova V, et al. **Khirurgiia (Sofiia)** 1996;49(3):13-8 (Eng. Abstr.) **(Bul)**

[Right tracheal bronchus] Calvet P, et al. **J Radiol** 1997 Feb; 78(2):135-9 (Eng. Abstr.) **(Fre)**

[Progress in the surgical treatment of congenital and acquired broncho-pulmonary pathology] Pesce C, et al. **Pediatr Med Chir** 1996 Sep-Oct;18(5):451-61 (34 ref.) (Eng. Abstr.) **(Ita)**

[Computerized tomography features of the accessory cardiac bronchus. A case report] Minutoli F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):464-6 **(Ita)**

ANATOMY & HISTOLOGY

Regular and irregular dichotomies of bronchial branching in the human lung. Satoh K, et al. **Acad Radiol** 1996 Jun; 3(6):469-74

Septal structure of incomplete interlobar fissures of the lung. Satoh K, et al. **Acad Radiol** 1996 Jun;3(6):475-8

Quantitative videobronchoscopy: a new technique to assess airway caliber [published erratum appears in Am J Respir Crit Care Med 1997 Mar;155(3):1171] Forkert L, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1794-803

Measurement of bronchodilatation using a superfine fibreoptic bronchoscope. Otomo N, et al. **Br J Anaesth** 1997 May;78(5):583-5

Variability of modes of division of the superior lobar bronchi in the right and left lungs. Maciejewski R, et al. **Folia Morphol (Warsz)** 1996;55(3):167-74

Deposition of monodisperse particles in hollow models representing adult and child-size tracheobronchial airways. Oldham MJ, et al. **Health Phys** 1997 Jun;72(6):827-34

Branching design of the bronchial tree based on a diameter-flow relationship. Kitaoka H, et al. **J Appl Physiol** 1997 Mar;82(3):968-76

Airway wall dimensions during carbachol-induced bronchoconstriction in rabbits. Sasaki F, et al. **J Appl Physiol** 1996 Oct;81(4):1578-83

Effects of bronchial vascular engorgement on airway dimensions. Wagner EM, et al. **J Appl Physiol** 1996 Jul; 81(1):293-301

Numerical modeling of steady inspiratory airflow through a three-generation model of the human central airways. Wilquem F, et al. **J Biomech Eng** 1997 Feb;119(1):59-65

Inspiratory and expiratory steady flow analysis in a model symmetrically bifurcating airway. Zhao Y, et al. **J Biomech Eng** 1997 Feb;119(1):52-8

Evaluation of an approach to choosing a left double-lumen tube size based on chest computed tomographic scan measurement of left mainstem bronchial diameter. Hannallah M, et al. **J Cardiothorac Vasc Anesth** 1997 Apr; 11(2):168-71

Size-dependent morphology of the conductive bronchial tree in four species of myomorph rodents. Valerius KP. **J Morphol** 1996 Dec;230(3):291-7

The bronchial tree and pulmonary artery of the tamandua (Tamandua tetradactyla) lung--an important example supporting the fundamental scheme for the bronchial ramification of the mammalian lung. Nakakuki S. **Kaibogaku Zasshi** 1996 Feb;71(1):1-8

Uncoupling in the wall of the cartilaginous bronchus of the pig produced by smooth muscle contraction. Mitchell HW, et al. **Pulm Pharmacol** 1996 Feb;9(1):29-34

On the asymmetry of bifurcations in the bronchial tree. Phillips CG, et al. **Respir Physiol** 1997 Jan;107(1):85-98 (22 ref.)

Morphometric evaluation of bronchial glands of beagle dogs. Takenaka S, et al. **Toxicol Lett** 1996 Nov;88(1-3):279-85

BLOOD SUPPLY

Endothelin-A receptor antagonist BQ-610 blocks cigarette smoke-induced mitogenesis in rat airways and vessels. Dadmanesh F, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L614-8

Increased vascularity of the bronchial mucosa in mild asthma. Li X, et al. **Am J Respir Crit Care Med** 1997 Jul; 156(1):229-33

Images in cardiovascular medicine. Combined pulmonary artery angiography and tracheobronchography in pulmonary artery sling. Freihorst J, et al. **Circulation** 1997 Sep 16;96(6):2079

Control of the bronchial circulation. Proceedings of the da Vinci Society 4th International Meeting. 11-14 November 1996. **Clin Exp Pharmacol Physiol** 1997 Mar-Apr; 24(3-4):A1-19

Obstruction of the superior vena cava due to aortic dissection: CT findings of collateral venous flow via the bronchial veins. Schepers-Bok R, et al. **Eur Radiol** 1996;6(5):753-5

Bronchial vascular congestion and angiogenesis. Charan NB, et al. **Eur Respir J** 1997 May;10(5):1173-80 (68 ref.)

Airway circulation in health and disease. Lockhart A, et al. **Eur Respir J** 1996 May;9(5):1105-10

Pulmonary veins and bronchial vessels undergo remodeling in sustained pulmonary hypertension induced by continuous air embolization into sheep. Johnson JE, et al. **Exp Lung Res** 1997 Sep-Oct;23(5):459-73

The contribution of the subclavian artery in the blood supply of the main bronchi in the human fetuses. Biegańska-Dembowska D. **Folia Morphol (Warsz)** 1996; 55(4):211-3

Variability of modes of division of the superior lobar bronchi in the right and left lungs. Maciejewski R, et al. **Folia Morphol (Warsz)** 1996;55(3):167-74

Intermittent airway obstruction by a floppy blood clot. Stanislas JM, et al. **Injury** 1996 Jul;27(6):452-3

Distribution of blood flow and neutrophil kinetics in bronchial vasculature of sheep. Baile EM, et al. **J Appl Physiol** 1997 May;82(5):1466-71

Distribution of pulmonary and bronchial blood supply to airways measured by fluorescent microspheres. Bernard SL, et al. **J Appl Physiol** 1996 Feb;80(2):430-6

Angiogenesis in bronchial circulatory system after unilateral pulmonary artery obstruction. Charan NB, et al. **J Appl Physiol** 1997 Jan;82(1):284-91

Reflex tracheal smooth muscle contraction and bronchial vasodilation evoked by airway cooling in dogs. Pisarri TE, et al. **J Appl Physiol** 1997 May;82(5):1566-72

Effects of bronchial vascular engorgement on airway dimensions. Wagner EM, et al. **J Appl Physiol** 1996 Jul; 81(1):293-301

Norepinephrine-induced contraction of isolated rabbit bronchial artery: role of alpha 1- and alpha 2-adrenoceptor activation. Zschauer AO, et al. **J Appl Physiol** 1997 Jun; 82(6):1918-25

Surgical and arteriographic results of bronchial artery revascularization in lung and heart lung transplantation. Nørgaard MA, et al. **J Heart Lung Transplant** 1997 Mar; 16(3):302-12

The tracheobronchial vasculature: a possible role in asthma. Widdicombe J. **Microcirculation** 1996 Jun;3(2):129-41 (68 ref.)

Extravasation, lamina propria flooding and lumenal entry of bulk plasma exudate in mucosal defence, inflammation and repair. Persson CG, et al. **Pulm Pharmacol** 1996 Jun; 9(3):129-39 (69 ref.)

Relationships between divisions of the lingular bronchus and vascularization patterns in the lingula. Maciejewski R, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(1):35-9

Inhalation injury increases the anastomotic bronchial blood flow in the pouch model of the left ovine lung. Hinder F, et al. **Shock** 1997 Aug;8(2):131-5

Neovascularization in hyperplastic, metaplastic and potentially preneoplastic lesions of the bronchial mucosa. Fisseler-Eckhoff A, et al. **Virchows Arch** 1996 Oct; 429(2-3):95-100

Effects of ischaemia and preservation on the ultrastructure of the bronchiolar epithelium. A quantitative electron microscopic study of human and canine lungs. Stolte N, et al. **Virchows Arch** 1996 Oct;429(2-3):109-18

[The effect of basic fibroblast growth factor (bFGF) on early bronchial revascularization] Oyama K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2032-9 (Eng. Abstr.) **(Jpn)**

[Ultrastructure of blood and lymphatic capillaries of bronchi during their inflammation and endobronchial laser therapy] Polosukhin VV. **Biull Eksp Biol Med** 1997 Feb; 123(2):222-8 **(Rus)**

CHEMISTRY

Expression of CD44 isoforms is increased in the airway epithelium of asthmatic subjects. Lackie PM, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):14-22

Differential regulation of airway epithelial integrins by growth factors. Wang A, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):664-72

Similar RANTES levels in healthy and asthmatic airways by immunoassay and in situ hybridization. Fahy JV, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1095-100

Working hypothesis on the classification of Cys-leukotriene receptors in airways. Capra V, et al. **Ann N Y Acad Sci** 1997 May 30;812:169-70

Human beta-defensin-1 is a salt-sensitive antibiotic in lung that is inactivated in cystic fibrosis. Goldman MJ, et al. **Cell** 1997 Feb 21;88(4):553-60

Expression of cell adhesion molecules in lung cancer cell lines. Horn S, et al. **Exp Toxicol Pathol** 1996 Nov; 48(6):535-40

Identification of a major human high molecular weight salivary mucin (MG1) as tracheobronchial mucin MUC5B. Nielsen PA, et al. **Glycobiology** 1997 Apr;7(3):413-9

Immunohistochemical detection of bcl-2 protein in adenocarcinoma and non-neoplastic cellular compartments of the lung. Rao SK, et al. **Mod Pathol** 1996 May;9(5):555-9

Carinal and tubular airway particle concentrations in the large airways of non-smokers in the general population: evidence for high particle concentration at airway carinas. Churg A, et al. **Occup Environ Med** 1996 Aug;53(8):553-8

Immunoreactivity for the alpha-subunit of the pituitary glycoprotein hormones in pulmonary neuroendocrine cells of developing human lung and various perinatal diseases. Van den Steen P, et al. **Regul Pept** 1997 May 14;70(1):37-48

[Kinetics of antibiotic distribution in the bronchopulmonary area] Fourtillan JB. **Rev Pneumol Clin** 1996;52 Suppl 2:S43-6 **(Fre)**

CYTOLOGY

Cell-matrix and cell-cell interactions modulate apoptosis of bronchial epithelial cells. Aoshiba K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L28-37

Fibronectin supports bronchial epithelial cell adhesion and survival in the absence of growth factors. Aoshiba K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L684-93

Increased cAMP levels in stimulated neutrophils inhibit their adhesion to human bronchial epithelial cells. Bloemen PG, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L580-7

Role of phospholipase C and tyrosine kinase systems in growth response of human airway smooth muscle cells. De S, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L795-802

Bronchoalveolar macrophage CD14 expression: shift between membrane-associated and soluble pools. Hasday JD, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L925-33

Protective effect of substance P on permeability of airway epithelial cells in culture. Yu XY, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L889-95

Expansion of bronchial epithelial cell populations by in vitro culture of explants from dysplastic and histologically normal sites. Franklin WA, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):297-304

Myofibroblast involvement in the allergen-induced late response in mild atopic asthma. Gizycki MJ, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):664-73

Morphologic and functional properties of bronchial cells isolated from normal and asthmatic subjects. Goulet F, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):312-8

Expression and activity of nitric oxide synthases in human airway epithelium. Watkins DN, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):629-39

Regulation of the secretory phenotype of human airway epithelium by retinoic acid, triiodothyronine, and extracellular matrix. Yoon JH, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):724-31

Tumor necrosis factor alpha (TNF alpha)-induced ICAM-1 surface expression in airway epithelial cells in vitro: possible signal transduction mechanisms. Krunkosky TM, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:30-7

Neutrophil transmigration across monolayers of endothelial cells and airway epithelial cells is regulated by different mechanisms. Liu L, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:21-9 (43 ref.)

Cell cycle response to DNA damage differs in bronchial epithelial cells and lung fibroblasts. Gadbois DM, et al. **Cancer Res** 1997 Aug 1;57(15):3174-9

Retinoic acid receptor- and retinoid X receptor-selective retinoids activate signaling pathways that converge on

AP-1 and inhibit squamous differentiation in human bronchial epithelial cells. Lee HY, et al. **Cell Growth Differ** 1996 Aug;7(8):997–1004

Patterns of gene expression in human airway epithelial cells. Willey JC, et al. **Chest** 1997 Jun;111(6 Suppl):83S

Eosinophil accumulation and airway hyperreactivity [letter; comment] Chapman ID, et al. **Eur Respir J** 1996 Jun; 9(6):1331–3. Comment on: Eur Respir J 1995 Dec;8(12):2104–13.

Cell cultures from bronchial subepithelial myofibroblasts enhance eosinophil survival in vitro. Zhang S, et al. **Eur Respir J** 1996 Sep;9(9):1839–46

Characteristics of airway eosinophils. Busse WW, et al. **Eur Respir J Suppl** 1996 Aug;22:132s–135s (10 ref.)

Eosinophil adhesion to human bronchial epithelial cells: regulation by cytokines. Sato M, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):203–5

Increased IL-5 and IL-10 transcription in bronchial cells after Sauropus androgynus ingestion. Chen CW, et al. **J Formos Med Assoc** 1996 Sep;95(9):699–702

Tracheobronchial cytology in inhalation injury. Khoo AK, et al. **J Trauma** 1997 Jan;42(1):81–5

Differential effects of p53 mutants on the growth of human bronchial epithelial cells. Coursen JD, et al. **Mol Carcinog** 1997 Jul;19(3):191–203

Inhibited transformation of immortalized human bronchial epithelial cells by retinoic acid is linked to cyclin E down-regulation [published erratum appears in Oncogene 1996 Dec 19;13(12):2743] Langenfeld J, et al. **Oncogene** 1996 Nov 7;13(9):1983–90

Essential role for complex N-glycans in forming an organized layer of bronchial epithelium. Ioffe E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11041–6

Arachidonic acid-induced calcium signalling in human airway smooth muscle cells. Colliard-Rouiller C, et al. **Respir Physiol** 1997 Mar;107(3):263–73

In vitro reconstituted tissue as an alternative to human respiratory tract. Emura M, et al. **Toxicol Lett** 1996 Nov; 88(1–3):81–4

DRUG EFFECTS

Distribution of epidermal growth factor receptor and ligands during bronchiolar epithelial repair from naphthalene-induced Clara cell injury in the mouse. Van Winkle LS, et al. **Am J Pathol** 1997 Aug;151(2):443–59

HSP27 elevated in mild allergic inflammation protects airway epithelium from H2SO4 effects. Hastie AT, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L401–9

In situ visualization of bronchial submucosal glands and their secretory response to acetylcholine. Inglis SK, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L203–10

Characterization of the effects of histamine in porcine tracheobronchial lymph vessels. Reeder LB, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2501–7

Disruption of protein tyrosine phosphate homeostasis in bronchial epithelial cells exposed to oil fly ash. Samet JM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L426–32

Effects of protein tyrosine kinase inhibitors on contractility of isolated bronchioles of the rat. Chopra LC, et al. **Am J Respir Cell Mol Biol** 1997 Apr;16(4):372–8

Upregulatory effects of interleukin-4 and interleukin-13 but not interleukin-10 on granulocyte/macrophage colony-stimulating factor production by human bronchial epithelial cells. Nakamura Y, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):680–7

Tachykinin-independent effects of capsaicin on smooth muscle in human isolated bronchi. Ellis JL, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):751–5

Incubation with IgE increases cholinergic neurotransmission in human airways in vitro. Ichinose M, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1272–6

In vitro and in vivo modulation of alpha- and beta-glucocorticoid-receptor mRNA in human bronchial epithelium. Korn SH, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1117–22

Acetylcholine via muscarinic receptors inhibits histamine release from human isolated bronchi. Reinheimer T, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):389–95

Expression of mRNA for gastrin-releasing peptide receptor by human bronchial epithelial cells. Association with prolonged tobacco exposure and responsiveness to bombesin-like peptides. Siegfried JM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):358–66

Bronchial aspirin challenge causes specific eicosanoid response in aspirin-sensitive asthmatics. Szczeklik A, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1608–14

Erythromycin modulates IL-8 expression in normal and inflamed human bronchial epithelial cells. Takizawa H, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):266–71

Muscarinic hyperresponsiveness of antigen-sensitized feline airway smooth muscle in vitro. Mitchell RW, et al. **Am J Vet Res** 1997 Jun;58(6):672–6

Isoflurane- and halothane-mediated dilation of distal bronchi in the rat depends on the epithelium. Park KW, et al. **Anesthesiology** 1997 May;86(5):1078–87; discussion 23A–24A

Inhibition of airway constriction by opioids is different down the isolated bovine airway. Zappi L, et al. **Anesthesiology** 1997 Jun;86(6):1334–41

Bronchial responsiveness of aged asthmatic patients to bronchodilator and methacholine. Chuang CC, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):1–4

Leukemia inhibitory factor induces the 85-kDa cytosolic phospholipase A2 gene expression in cultured human bronchial epithelial cells. Ikezono T, et al. **Biochim Biophys Acta** 1997 Feb 4;1355(2):121–30

Effect of intravenous magnesium sulphate on airway calibre and airway reactivity to histamine in asthmatic subjects. Hill JM, et al. **Br J Clin Pharmacol** 1996 Nov;42(5):629–31

Indirect muscarinic receptor activation by pentamidine on airway smooth muscle. Biyah K, et al. **Br J Pharmacol** 1996 Nov;119(6):1131–6

Effects of SCA40 on human isolated bronchus and human polymorphonuclear leukocytes: comparison with rolipram, SKF94120 and levcromakalim. Cortijo J, et al. **Br J Pharmacol** 1996 Sep;119(1):99–106

EndothelinB (ETB) receptor-activated potentiation of cholinergic nerve-mediated contraction in human bronchus. Fernandes LB, et al. **Br J Pharmacol** 1996 Aug; 118(8):1873–4

Necessity of dual blockade of endothelin ETA and ETB receptor subtypes for antagonism of endothelin-1-induced contraction in human bronchi. Fukuroda T, et al. **Br J Pharmacol** 1996 Mar;117(6):995–9

The effect of okadaic acid on non-adrenergic non-cholinergic contraction in guinea-pig isolated bronchus. Harrison S, et al. **Br J Pharmacol** 1997 May; 121(2):181–6

KW-4679-induced inhibition of tachykininergic contraction in the guinea-pig bronchi by prejunctional inhibition of peripheral sensory nerves [published erratum appears in Br J Pharmacol 1996 Jul;118(6):1565] Ikemura T, et al. **Br J Pharmacol** 1996 Mar;117(5):967–73

Increased interleukin-8 release by beta-adrenoceptor activation in human transformed bronchial epithelial cells. Lindén A. **Br J Pharmacol** 1996 Sep;119(2):402–6

SCA 40: studies of the relaxant effects on cryopreserved human airway and vascular smooth muscle. Müller-Schweinitzer E, et al. **Br J Pharmacol** 1997 Apr; 120(7):1241–8

Effects of RP 73401, a novel, potent and selective phosphodiesterase type 4 inhibitor, on contractility of human, isolated bronchial muscle. Naline E, et al. **Br J Pharmacol** 1996 Aug;118(8):1939–44

Beta 2-adrenoceptor agonist-mediated inhibition of human airway smooth muscle cell proliferation: importance of the duration of beta 2-adrenoceptor stimulation. Stewart AG, et al. **Br J Pharmacol** 1997 Jun;121(3):361–8

Human bronchial smooth muscle responsiveness after in vitro exposure to oxidizing pollutants. Marthan R, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):245–9

The human bronchus model in vitro. Pharmacological approach of various components involved in the functional response. Molimard M, et al. **Cell Biol Toxicol** 1996 Dec; 12(4–6):233–7

Bronchodilatation and the inspiratory flow volume curve. Reddy R, et al. **Chest** 1996 Nov;110(5):1226–8

Airway hyperresponsiveness to methacholine in subjects with spinal cord injury. Singas E, et al. **Chest** 1996 Oct; 110(4):911–5

Steric aspects of formoterol and terbutaline: is there an adverse effect of the distomer on airway smooth muscle function? Källström BL, et al. **Chirality** 1996;8(8):567–73

Effect of capsaicin inhalation on methacholine responsiveness in normal subjects. Fujimura M, et al. **Clin Auton Res** 1996 Feb;6(1):45–8

Inhibition of airways inflammation by dexamethasone is followed by reduced bronchial hyperreactivity in BP2 mice. Eum SY, et al. **Clin Exp Allergy** 1996 Aug; 26(8):971–9

Effects of albuterol enantiomers on in vitro bronchial reactivity. Johansson F, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):57–64

Generation of glycolaldehyde from guinea pig airway epithelial monolayers exposed to nitrogen dioxide and its effects on sodium pump activity. Robison TW, et al. **Environ Health Perspect** 1996 Aug;104(8):852–6

Histamine-induced contraction of human isolated bronchus is enhanced by endogenous prostaglandin F2 alpha and activation of TP receptors. Knight DA, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):261–7

Contraction of human airway smooth muscle by endothelin-1 and IRL 1620: effect of bosentan. Takahashi T, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):219–22

Compensation of muscarinic bronchial effects of talsaclidine by concomitant sympathetic activation in guinea pigs. Walland A, et al. **Eur J Pharmacol** 1997 Jul 9; 330(2–3):213–9

Protein kinase C induced changes in human airway smooth muscle tone: the effects of $Ca2+$ and $Na+$ transport. Yang KX, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):65–71

The effect of nedocromil sodium on human airway epithelial cell–induced eosinophil chemotaxis and adherence to human endothelial cell in vitro. Abdelaziz MM, et al. **Eur Respir J** 1997 Apr;10(4):851–7

Isotonic smooth muscle response in human bronchi exposed in vitro to nitrogen dioxide. Chitano P, et al. **Eur Respir J** 1996 Nov;9(11):2294–7

Epinastine (WAL 801CL) modulates the noncholinergic contraction in guinea-pig airways in vitro by a prejunctional 5-HT1-like receptor. Dupont LJ, et al. **Eur Respir J** 1996 Jul;9(7):1433–8

Pre- and postjunctional inhibitory effects of fenspiride on guinea-pig bronchi. Girard V, et al. **Eur Respir J** 1997 May;10(5):1015–20

The effect of inhaled sodium cromoglycate on cellular infiltration into the bronchial mucosa and the expression of adhesion molecules in asthmatics. Hoshino M, et al. **Eur Respir J** 1997 Apr;10(4):858–65

Mast cell tryptase potentiates histamine-induced contraction in human sensitized bronchus. Johnson PR, et al. **Eur Respir J** 1997 Jan;10(1):38–43

Reactive airways dysfunction syndrome due to chlorine: sequential bronchial biopsies and functional assessment. Lemière C, et al. **Eur Respir J** 1997 Jan;10(1):241–4

Ozone-induced mediator release from human bronchial epithelial cells in vitro and the influence of nedocromil sodium. Rusznak C, et al. **Eur Respir J** 1996 Nov; 9(11):2298–305

Effect of corticosteroids on release of RANTES and sICAM-1 from cultured human bronchial epithelial cells, induced by TNF-alpha. Wang JH, et al. **Eur Respir J** 1997 Apr;10(4):834–40

Molecular mechanisms of steroid action: a novel type of cross-talk between glucocorticoids and NF-kappa B transcription factors. van der Saag PT, et al. **Eur Respir J Suppl** 1996 Aug;22:146s–153s

One-month exposure to inhaled endotoxin produces a dose-dependent increase in stored mucosubstances in rat intrapulmonary airways. Gordon T, et al. **Exp Lung Res** 1996 Sep–Oct;22(5):509–23

Abnormal mucous cell phenotype induced by neutrophil elastase in hamster bronchi. Jamil S, et al. **Exp Lung Res** 1997 Jul–Aug;23(4):285–95

Antiproteases attenuate the release of neutrophil chemotactic activity from bronchial epithelial cells induced by smoke. Koyama S, et al. **Exp Lung Res** 1996 Jan–Feb;22(1):1–19

Potential carcinogenicity of foundry fumes: a comparative in vivo–in vitro study. Humfrey CD, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1103–11

Mucous cell metaplasia in the airways of rats exposed to machining fluids. Gordon T, et al. **Fundam Appl Toxicol** 1995 Dec;28(2):274–82

Tachykinin antagonist FK224 inhibits neurokinin A–, substance P– and capsaicin-induced human bronchial contraction. Honda I, et al. **Fundam Clin Pharmacol** 1997; 11(3):260–6

Effects of SCA40 on human bronchi and on guinea pig main bronchi in vitro. Comparison with cromakalim. Naline E, et al. **Fundam Clin Pharmacol** 1996;10(4):368–78

Antihistamines and production of granulocyte–macrophage colony-stimulating factor and interleukin-8 by human bronchial epithelial cells in vitro: evaluation of the effects of loratadine and cetirizine. Amsellem C, et al. **Gen Pharmacol** 1996 Mar;27(2):269–72

Effects of the calcium ionophore A23187 on airway responsiveness to histamine and substance P in guinea pigs. Uno D, et al. **Inflamm Res** 1997 Mar;46(3):108–13

Inhibition of neutrophil elastase-induced interleukin-8 gene expression by urinary trypsin inhibitor in human bronchial epithelial cells. Nakamura H, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):157–62

Phenotypic variation in hamster bronchial mucous cells induced by different airway irritants. Jamil S, et al. **Int J Exp Pathol** 1997 Jun;78(3):163–8

Eight hours' inhalation of prostacyclin (PGI2) in healthy lambs: effects on tracheal, bronchial, and alveolar morphology. Habler O, et al. **Intensive Care Med** 1996 Nov; 22(11):1232–8

Eosinophil peroxidase stimulates the release of granulocyte–macrophage colony-stimulating factor from bronchial epithelial cells. Motojima S, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S216–23

Mass cells contribute to O3-induced epithelial damage and proliferation in nasal and bronchial airways of mice. Longphre M, et al. **J Appl Physiol** 1996 Apr;80(4):1322–30

In vitro and in vivo assessment of the pulmonary toxicity of cellulose. Adamis Z, et al. **J Appl Toxicol** 1997 Mar–Apr; 17(2):137–41

Mechanisms of impaired beta-adrenoceptor-induced airway relaxation by interleukin-1beta in vivo in the rat. Koto H, et al. **J Clin Invest** 1996 Oct 15;98(8):1780–7

Cl- currents activated by extracellular nucleotides in human bronchial cells. Zegarra-Moran O, et al. **J Membr Biol** 1997 Apr 1;156(3):297–305

Cellular and metabolic basis of Clara cell tolerance to multiple doses of cytochrome P450–activated cytotoxicants. I: Bronchiolar epithelial reorganization and expression of cytochrome P450 monooxygenases in mice exposed to multiple doses of naphthalene. Lakritz J, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1408–18

Styrene-induced alterations in the respiratory tract of rats treated by inhalation or intraperitoneally. Coccini T, et al. **J Toxicol Environ Health** 1997 Sep;52(1):63–77

Ozone-induced DNA strand breaks In guinea pig tracheobronchial epithelial cells. Ferng SF, et al. **J Toxicol Environ Health** 1997 Jul;51(4):353–67

Endothelial-constitutive nitric oxide synthase exists in airways and diesel exhaust particles inhibit the effect of nitric oxide. Muto E, et al. **Life Sci** 1996;59(18):1563–70

Furosemide-induced bronchodilation in the rat bronchus: evidence of a role for prostaglandins. Almirall JJ, et al. **Lung** 1997;175(3):155–63

Beta 2-agonist-elevated stress response in human bronchial epithelial cells in vivo and in vitro. Hastie AT, et al. **Lung** 1997;175(5):287–98

Neurokinin subtype receptors mediating substance P contraction in immature rabbit airways. Kazem E, et al. **Pediatr Res** 1996 Jan;39(1):120–6

The effect of oxygen tension on responses evoked by methacholine and bronchodilators in bovine isolated bronchial rings. Clayton RA, et al. **Pulm Pharmacol** 1996 Apr;9(2):123–8

Isolated, electrically-stimulated airway preparations—their use in determining beta-adrenoceptor agonist activity. Coleman RA, et al. **Pulm Pharmacol** 1996 Apr;9(2):107–17

Intramural elastase injection increases responsiveness of isolated bronchial segments. Gray PR, et al. **Pulm Pharmacol** 1996 Aug;9(4):239–43

Mechanisms of 5-hydroxytryptamine-induced contraction of isolated rat intrapulmonary bronchi. Szarek JL, et al. **Pulm Pharmacol** 1995 Dec;8(6):273–81

Influence of ii:spiratory capacity on bronchodilatation via Turbuhaler or pressurized metered-dose inhaler in asthmatic children: a comparison. Hirsch T, et al. **Respir Med** 1997 Jul;91(6):341–6

The inhibitory effect of fluoride on carbachol-induced bovine bronchial contraction. Zhao W, et al. **Respir Physiol** 1997 May;108(2):171–9

Formation of intracellular free radicals in guinea pig airway epithelium during in vitro exposure to ozone. Chen LC, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):96–101

The use of the single cell gel electrophoresis assay in detecting DNA single strand breaks in lung cells in vitro. Lee JG, et al. **Toxicol Appl Pharmacol** 1996 Nov; 141(1):195–204

Induction of prostaglandin H synthase 2 in human airway epithelial cells exposed to residual oil fly ash. Samet JM, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):159–68

Bronchial responsiveness and inflammation in guinea-pigs exposed to toluene diisocyanate: a study on single and repeated exposure. Gagnaire F, et al. **Toxicology** 1996 Dec 2;114(2):91–100

[Combination anesthesia and bronchial tranport velocity. Effects of anesthesia with isoflurane, fentanyl, vecuronium and oxygen-nitrous oxide breathing on bronchial mucus transport] Konrad F, et al. **Anaesthesist** 1997 May; 46(5):403–7 (Eng. Abstr.) **(Ger)**

[Effects of theophylline and doxofylline on airway responsiveness in beagles] Sugeta A, et al. **Arerugi** 1997 Jan;46(1):7–15 (Eng. Abstr.) **(Jpn)**

EMBRYOLOGY

Cell–matrix interactions in gland development in the lung. Infeld MD. **Exp Lung Res** 1997 Mar–Apr;23(2):161–9 (24 ref.)

Two different patterns of airway branching regulated by different components of the extracellular matrix in vitro. Matsui R, et al. **Exp Lung Res** 1996 Nov–Dec;22(6):593–611

Bronchial ligation enhances murine fetal lung development in whole-organ culture. Blewett CJ, et al. **J Pediatr Surg** 1996 Jul;31(7):869–77

ENZYMOLOGY

Decreased Cu,Zn-SOD activity in asthmatic airway epithelium: correction by inhaled corticosteroid in vivo. De Raeve HR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L148–54

Enhanced expression of neutral endopeptidase (NEP) in airway epithelium in biopsies from steroid- versus nonsteroid-treated patients with atopic asthma. Sont JK, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):549–56

Purification, characterization, and localization of a novel trypsin-like protease found in the human airway. Yasuoka S, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):300–8

Measurement of cytochrome P450 2E1 activity in rat tracheobronchial airways using high-performance liquid chromatography with electrochemical detection. Watt KC, et al. **Anal Biochem** 1997 May 15;248(1):26–30

Na+/K+ ATPase in lower airway epithelium from cystic fibrosis and non-cystic-fibrosis lung. Peckham D, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):464–8

Mechanisms involved in the chemoprotective effects of rosemary extract studied in human liver and bronchial cells. Offord EA, et al. **Cancer Lett** 1997 Mar 19;114(1–2):275–81

Extracellular superoxide dismutase in vessels and airways of humans and baboons. Oury TD, et al. **Free Radic Biol Med** 1996;20(7):957–65

Cholinesterase activity in pig airways and epithelial cells. Taisne C, et al. **Fundam Clin Pharmacol** 1997;11(3):201–5

Immunohistochemical localization and quantitative analysis of cellular glutathione peroxidase in foetal and neonatal rat tissues: fluorescence microscopy image analysis. Asayama K, et al. **Histochem J** 1996 Jan;28(1):63–71

Profound overexpression of leukotriene C4 synthase in bronchial biopsies from aspirin-intolerant asthmatic patients. Sampson AP, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):355–7

Interferon gamma induces prostaglandin G/H synthase-2 through an autocrine loop via the epidermal growth factor receptor in human bronchial epithelial cells. Asano K, et al. **J Clin Invest** 1997 Mar 1;99(5):1057–63

[Ultracytochemical study of activity of various phosphatases during early postmortem period in experimental animals] Sipovskiĭ VG. **Vopr Med Khim** 1996 Jul–Sep;42(3):231–3 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Airway muscle in preterm infants: changes during development. Sward-Comunelli SL, et al. **J Pediatr** 1997 Apr;130(4):570–6

IMMUNOLOGY

Bronchial epithelial cells in asthma. Campbell AM. **Allergy** 1997 May;52(5):483–9 (68 ref.)

Bronchoalveolar macrophage CD14 expression: shift between membrane-associated and soluble pools. Hasday JD, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L925–33

Infiltration of eosinophils into the asthmatic airways caused by interleukin 5. Shi H, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):220–4

Mast cell numbers are increased in the smooth muscle of human sensitized isolated bronchi. Ammit AJ, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1123–9

Allergen challenge of passively sensitized human bronchi alters M2 and beta2 receptor function. Song P, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1230–4

Erythromycin modulates IL-8 expression in normal and inflamed human bronchial epithelial cells. Takizawa H, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):266–71

Role of IgE in hyperresponsiveness induced by passive sensitization of human airways. Watson N, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):839–44

T cell receptor repertoire in peripheral blood and bronchial biopsies from normal and asthmatic subjects. Gelder CM, et al. **Biochem Soc Trans** 1996 May;24(2):316S

Cytokine mRNA profiles of normal and asthmatic peripheral blood cells and endobronchial biopsies. Gelder CM, et al. **Biochem Soc Trans** 1996 May;24(2):315S

Antigen stimulation of human pulmonary smooth muscle: an in vitro model of inflammation. Gorenne I, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):239–44

Induction of hyperresponsiveness in human airway tissue by neutrophils—mechanism of action. Anticevich SZ, et al. **Clin Exp Allergy** 1996 May;26(5):549–56

The interaction of tumour necrosis factor alpha and endothelin-1 in pathogenetic models of asthma. Xu J, et al. **Clin Exp Allergy** 1997 May;27(5):568–73

Bronchial and skin reactivity in asthmatic patients with and without atopic dermatitis. Brinkman L, et al. **Eur Respir J** 1997 May;10(5):1033–40

Immunopathology of fatal soybean dust-induced asthma. Synek M, et al. **Eur Respir J** 1996 Jan;9(1):54–7

Characteristics of airway eosinophils. Busse WW, et al. **Eur Respir J Suppl** 1996 Aug;22:132s–135s (10 ref.)

Nitrite reductase from Pseudomonas aeruginosa induces inflammatory cytokines in cultured respiratory cells. Oishi K, et al. **Infect Immun** 1997 Jul;65(7):2648–55

Expression of cytokines on human bronchial epithelial cells induced by influenza virus A. Adachi M, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):307–11

Relationship between activated eosinophils of the bronchial mucosa and serum eosinophil cationic protein in atopic asthma. Hoshino M, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):59–64

Inhibition of neutrophil elastase-induced interleukin-8 gene expression by urinary trypsin inhibitor in human bronchial epithelial cells. Nakamura H, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):157–62

The association between lung innate immunity and differential airway antigen-specific immune responses. Lin JY, et al. **Int Immunol** 1996 Apr;8(4):499–507

The bronchial epithelium: a potential allogeneic target for chronic rejection after lung transplantation. Mauck KA, et al. **J Heart Lung Transplant** 1996 Jul;15(7):709–14

Cytokine production by cell cultures from bronchial subepithelial myofibroblasts. Zhang S, et al. **J Pathol** 1996 Sep;180(1):95–101

A study of bronchus-associated lymphoid tissue in a rat model of chronic pulmonary infection with Pseudomonas aeruginosa. Kitazawa H, et al. **Kansenshogaku Zasshi** 1997 Mar;71(3):214–21

Adhesion molecules and the recruitment of eosinophils to the airways. Henricks PA, et al. **Res Immunol** 1997 Jan; 148(1):18–28 (116 ref.)

Inflammatory changes in proximal and peripheral airways of asthmatic patients. Oddera S, et al. **Respir Med** 1997 Jul;91(6):323–6 (29 ref.)

Role of costimulatory molecules on airway epithelial cells acting as alloantigen-presenting cells. Nakajima J, et al. **Transplant Proc** 1997 Jun;29(4):2297–300

Bronchus-associated lymphoid tissue is targeted and damaged by recipient lymphocytes in long-term-surviving rat lung allograft. Uyama T, et al. **Transplant Proc** 1997 Sep;29(6):2617–8

Systemic and pulmonary immune response to intrabronchial administration of ovalbumin in calves. HogenEsch H, et al. **Vet Immunol Immunopathol** 1996 Jun 1;51(3–4):293–302

[Activation status of eosinophils in the bronchial mucosa in symptomatic and asymptomatic asthmatics] Sato M, et al. **Arerugi** 1997 Jan;46(1):16–25 (Eng. Abstr.) **(Jpn)**

[The immunomorphology of the mucosa of the bronchi and gastroduodenal zone in children with combined disease of the bronchi and gastrointestinal tract] Novikova AV, et al. **Arkh Patol** 1996 Nov–Dec;58(6):12–6 (Eng. Abstr.) **(Rus)**

INJURIES

Diagnosis of pulmonary contusions and a bronchial laceration after a fall. Song JK, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1510

CT findings of bronchial transection. Wan YL, et al. **Am J Emerg Med** 1997 Mar;15(2):176–7

Traumatic bronchial rupture—a case report. Goh SH, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):883–6

Iatrogenic tracheobronchial lacerations [letter; comment] d'Odemont JP, et al. **Ann Thorac Surg** 1997 Apr; 63(4):1209–10. Comment on: Ann Thorac Surg 1996 May;61(5):1483–7.

Lower airway injuries and anaesthesia [see comments] Devitt JH, et al. **Can J Anaesth** 1996 Feb;43(2):148–59 (63 ref.) . Comment in: Can J Anaesth 1996 Nov;43(11):1181–2.

Iatrogenic ruptures of the tracheobronchial tree. Kaloud H, et al. **Chest** 1997 Sep;112(3):774–8

Traumatic injury of the cervicothoracic trachea and major bronchi. Lee RB. **Chest Surg Clin N Am** 1997 May; 7(2):285–304 (78 ref.)

Delayed diagnosis and repair of total bronchial rupture: a report of two cases. Frimpong-Boateng K, et al. **East Afr Med J** 1997 Feb;74(2):114–5 (23 ref.)

Unusual presentations of injury to the bronchus with literature review. Softah A, et al. **Indian J Chest Dis Allied Sci** 1997 Jan–Mar;39(1):51–7

Bronchial rupture and fatal tension pneumothorax following routine venipuncture in a kitten. Godfrey DR. **J Am Anim Hosp Assoc** 1997 May–Jun;33(3):260–3

Tracheobronchial disruption following low-energy trauma. Tull DF, et al. **J Emerg Med** 1996 Sep–Oct;14(5):579–83

Primary repair of rupture of a main and lobar bronchus. Muysoms FE, et al. **J Thorac Cardiovasc Surg** 1997 Feb; 113(2):415–7

Emergency sleeve lobectomy after blunt chest trauma in a child. McCarthy JF, et al. **J Trauma** 1996 Nov;41(5):892–4

Transthoracic bronchial intubation in a case of main bronchus disruption. Rupprecht H, et al. **J Trauma** 1996 Nov; 41(5):895–8

[Intrabronchial migration and extraction of a fragment of an Accufix J-shaped atrial pacing catheter] Lefez C, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):291–3 (Eng. Abstr.) **(Fre)**

[Blunt thoracic trauma with bronchial rupture] Mouton W, et al. **Swiss Surg** 1997;3(4):177–80 (Eng. Abstr.) **(Ger)**

[Tracheal and main bronchial disruptions after blunt chest trauma] Rusca M, et al. **Acta Biomed Ateneo Parmense** 1995;66(6):233–7 (Eng. Abstr.) **(Ita)**

[Two cases of tracheobronchial disruption due to blunt trauma] Date K, et al. **Kyobu Geka** 1997 Mar;50(3):201–4 (Eng. Abstr.) **(Jpn)**

[A case of successful endoscopic treatment for traumatic bronchial rupture] Nakamura H, et al. **Kyobu Geka** 1997 Jul;50(7):589–93 (Eng. Abstr.) **(Jpn)**

[Urgent thoracotomy for injuries to the tracheobronchial tree due to blunt trauma—a seven cases report and a literature review of 32 cases in Japan] Tanaka H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):851–9 (46 ref.) (Eng. Abstr.) **(Jpn)**

[A case of right intermediate bronchial stenosis due to an injury eighteen years before] Fuwa S, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):187–90 (Eng. Abstr.) **(Jpn)**

[Traumatic transection of the left main bronchus and laryngeal fracture resulting from blunt trauma—a successful case of emergency operation] Ogawa J, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):498–501 (Eng. Abstr.) **(Jpn)**

[Lesions of the tracheobronchial tree after the aspiration of a tablet of ferrous sulfate] Hernández Martínez J, et al. **Arch Bronconeumol** 1997 Jan;33(1):50–1 (Eng. Abstr.) **(Spa)**

INNERVATION

Extract of the marine alga Prymnesium patelliferum induces release of acetylcholine from cholinergic nerves in the rat bronchial smooth muscle. Meldahl AS, et al. **Acta Physiol Scand** 1996 Feb;156(2):99–107

Muscarinic receptor regulation of synaptic transmission in airway parasympathetic ganglia. Myers AC, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L630–6

Mapping the innervation of the bronchial tree in fetal and postnatal pig lung using antibodies to PGP 9.5 and SV2. Weichselbaum M, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):703–10

Airway hyperresponsiveness in a rat model of chronic bronchitis: role of C fibers. Long NC, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1222–9

Impairment of neural nitric oxide–mediated relaxation after antigen exposure in guinea pig airways in vitro. Miura M, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):217–22

Neuroregulation of the nose and bronchi. Widdicombe JG. **Clin Exp Allergy** 1996 May;26 Suppl 3:32–5 (20 ref.)

Structure and function of the adventitial and mucosal nerve plexuses of the bronchial tree in the developing lung. Sparrow MP, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr;24(3–4):261–8

Compensation of muscarinic bronchial effects of talsaclidine by concomitant sympathetic activation in guinea pigs. Walland A, et al. **Eur J Pharmacol** 1997 Jul 9; 330(2–3):213–9

Repeated allergen exposure enhances excitatory nonadrenergic noncholinergic nerve-mediated bronchoconstriction in sensitized guinea-pigs. Kageyama N, et al. **Eur Respir J** 1996 Jul;9(7):1439–44

Neuroeffector mechanisms: the interface between inflammation and neuronal responses. Barnes PJ. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S73–81; discussion S81–3 (67 ref.)

Antagonism of cholinergic nerve-mediated contractions by the sensory nerve inhibitory system in rat bronchi. Szarek JL, et al. **J Appl Physiol** 1996 Jul;81(1):260–5

Anatomical and electrophysiological comparison of the sensory innervation of bronchial and tracheal parasympathetic ganglion neurons. Myers A, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):162–8

The possible role of nitric oxide in relaxations and excitatory neuroeffector transmission in the cat airway. Tanaka H, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):785–91

Role of nitric oxide on cholinergic component of bronchial tone in pig. Costantino M, et al. **Pharmacol Res** 1996 Sep–Oct;34(3–4):157–60

The role of capsaicin-sensitive C-fibre afferent nerves in the cough reflex. Karlsson JA. **Pulm Pharmacol** 1996 Oct–Dec; 9(5–6):315–21

Airway sensory nerves in asthma--targets for therapy? Spina D, et al. **Pulm Pharmacol** 1996 Feb;9(1):1–18 (257 ref.)

Sodium metabisulfite and citric acid induce bronchoconstriction via a sulfite-sensitive pathway in the isolated guinea pig lung. Atzori L, et al. **Respiration** 1997; 64(2):145–51

Sensory nerve-mediated inhibitory responses in airways of F344 rats. Szarek JL, et al. **Toxicology** 1997 Sep 26; 122(1–2):101–10

[The participation of the celiac plexus in the innervation of the bronchi and pulmonary vessels] Andriesh VN. **Arkh Anat Gistol Embriol** 1981 Dec;81(12):51–7 (Eng. Abstr.) **(Rus)**

METABOLISM

Distribution of epidermal growth factor receptor and ligands during bronchiolar epithelial repair from naphthalene-induced Clara cell injury in the mouse. Van Winkle LS, et al. **Am J Pathol** 1997 Aug;151(2):443–59

Basic fibroblast growth factor induces expression of the PDGF receptor-alpha on human bronchial smooth muscle cells. Bonner JC, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L880–8

HSP27 elevated in mild allergic inflammation protects airway epithelium from H2SO4 effects. Hastie AT, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L401–9

Effect of anion transport inhibition on mucus secretion by airway submucosal glands. Inglis SK, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L372–7

Regulation of ion transport across porcine distal bronchi. Inglis SK, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L289–97

Regulation of [Ca2+]i in canine airway smooth muscle by Ca(2+)-ATPase and Na+/Ca2+ exchange mechanisms. Janssen LJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L322–30

Chronic effects of catecholamines on the beta 2-adrenoreceptor system in cultured human airway epithelial cells. Kelsen SG, et al. **Am J Physiol** 1997 May; 272(5 Pt 1):L916–24

Glucocorticoid receptor signaling in a bronchial epithelial cell line. LeVan TD, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L838–43

Endothelial and epithelial sources of endothelin-1 in sheep bronchi. Mariassy AT, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):L54–61

Acetylcholine in isolated airways of rat, guinea pig, and human: species differences in role of airway mucosa. Reinheimer T, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L722–8

Differential effects of polycationic protein on Cl- secretory and Na+ absorptive airways. Smith MD, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L762–71

Antisense inhibition of 85-kDa cPLA2 blocks arachidonic acid release from airway epithelial cells. Wu T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L331–8

In vivo analysis of fluid transport in cystic fibrosis airway epithelia of bronchial xenografts. Zhang Y, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1326–35

Expression of laminins in the airways in various types of asthmatic patients: a morphometric study. Altraja A, et al. **Am J Respir Cell Mol Biol** 1996 Oct;15(4):482–8

Bronchial mucosal expression of the genes encoding chemokines RANTES and MCP-3 in symptomatic atopic and nonatopic asthmatics: relationship to the eosinophil-active cytokines interleukin (IL)-5, granulocyte macrophage-colony-stimulating factor, and IL-3. Humbert M, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):1–8

Increased expression of interleukin-16 in bronchial mucosa of subjects with atopic asthma. Laberge S, et al. **Am J Respir Cell Mol Biol** 1997 Aug;17(2):193–202

Identification of novel inducible genes in airway epithelium. Schwiebert LM, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):106–13

Short-term ozone exposure upregulates P-selectin in normal human airways. Krishna MT, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1798–803

Cigarette smoke induces interleukin-8 release from human bronchial epithelial cells. Mio T, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1770–6

Elevated levels of cytokeratin 19 in the bronchoalveolar lavage fluid of patients with chronic airway inflammatory diseases--a specific marker for bronchial epithelial injury. Nakamura H, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1217–21

Free and complexed interleukin-8 in blood and bronchial mucosa in asthma. Shute JK, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1877–83

Expression of interleukin-1 beta (IL-1beta) and interleukin-1 receptor antagonist (IL-1ra) on asthmatic bronchial epithelium. Sousa AR, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):1061–6

Cyclooxygenase-2 and synthesis of PGE2 in human bronchial smooth-muscle cells. Viganò T, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):864–8

Membrane-bound and soluble alpha IL-5 receptor mRNA in the bronchial mucosa of atopic and nonatopic asthmatics. Yasruel Z, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1413–8

Scar collagen deposition in the airways of allografts of lung transplant recipients. Zheng L, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2072–7

Comparison of bronchopulmonary pharmacokinetics of clarithromycin and azithromycin. Patel KB, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2375–9

Eotaxin expression and eosinophilic inflammation in asthma. Mattoli S, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):299–301

Expression of endothelin-1 in human broncho-epithelial and monocytic cell lines: influence of tumor necrosis factor-alpha and dexamethasone [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1945] Aubert JD, et al. **Biochem Pharmacol** 1997 Feb 21; 53(4):547–52

Airway epithelial cells produce stem cell factor. Wen LP, et al. **Biochim Biophys Acta** 1996 Dec 12;1314(3):183–6

Stereoselective sulphate conjugation of salbutamol by human lung and bronchial epithelial cells. Eaton EA, et al. **Br J Clin Pharmacol** 1996 Mar;41(3):201–6

Release of RANTES from nasal and bronchial epithelial cells. Altman GB, et al. **Cell Biol Toxicol** 1997 Mar;13(3):205–13

Rapid down regulation of Ca2+ signals induced by endothelin-1 in a human bronchial epithelial cell line. Oles M, et al. **Cell Calcium** 1997 Mar;21(3):221–31

Altered compartmentalization of transforming growth factor-beta in asthmatic airways. Magnan A, et al. **Clin Exp Allergy** 1997 Apr;27(4):389–95

The measurement of reticular basement membrane and submucosal collagen in the asthmatic airway [see comments] Wilson JW, et al. **Clin Exp Allergy** 1997 Apr; 27(4):363–71. Comment in: Clin Exp Allergy 1997 Apr;27(4):351–3.

IL-1 beta release from cultured bronchial epithelial cells and bronchoalveolar lavage cells from allergic and normal humans following segmental challenge with ragweed. Hastie AT, et al. **Cytokine** 1996 Sep;8(9):730–8

Human and rat lung biotransformation of cyclosporin A and its derivatives using slices and bronchial epithelial cells. Vickers AE, et al. **Drug Metab Dispos** 1997 Jul;25(7):873–80

Tracheobronchial surface active material in cystic fibrosis. Griese M, et al. **Eur J Med Res** 1997 Mar 24;2(3):114–20

In vitro effects of toxogonin, HI-6 and HLö-7 on the release of [3H]acetylcholine from peripheral cholinergic nerves in rat airway smooth muscle. Aas P. **Eur J Pharmacol** 1996 Apr 22;301(1–3):59–66

Is nitric oxide in exhaled air produced at airway or alveolar level? Byrnes CA, et al. **Eur Respir J** 1997 May; 10(5):1021–5

Bronchial gamma delta T-lymphocytes and expression of heat shock proteins in mild asthma. Fajac I, et al. **Eur Respir J** 1997 Mar;10(3):633–8

Bacterial-induced release of inflammatory mediators by bronchial epithelial cells. Khair OA, et al. **Eur Respir J** 1996 Sep;9(9):1913–22 (91 ref.)

MDR1-Pgp 170 expression in human bronchus. Lechapt-Zalcman E, et al. **Eur Respir J** 1997 Aug; 10(8):1837–43

Expression of CD44 and integrins in bronchial mucosa of normal and mildly asthmatic subjects. Peroni DG, et al. **Eur Respir J** 1996 Nov;9(11):2236–42

Airway endothelin levels in asthma: influence of endobronchial allergen challenge and maintenance corticosteroid therapy. Redington AE, et al. **Eur Respir J** 1997 May;10(5):1026–32

Tracheobronchial deposition and clearance in small airways in asthmatic subjects [see comments] Svartengren K, et al. **Eur Respir J** 1996 Jun;9(6):1123–9. Comment in: Eur Respir J 1996 Jun;9(6):1118–22.

The binding of surface proteins from Staphylococcus aureus to human bronchial mucins. Trivier D, et al. **Eur Respir J** 1997 Apr;10(4):804–10

Modulation of glucocorticoid receptor expression in human bronchial epithelial cell lines by IL-1 beta, TNF-alpha and LPS. Verheggen MM, et al. **Eur Respir J** 1996 Oct; 9(10):2036–43

Improved distribution of pulmonary flush solution to the tracheobronchial wall in pulmonary transplantation. Varela A, et al. **Eur Surg Res** 1997;29(1):1–4

Antihistamines and production of granulocyte-macrophage colony-stimulating factor and interleukin-8 by human bronchial epithelial cells in vitro: evaluation of the effects of loratadine and cetirizine. Amsellem C, et al. **Gen Pharmacol** 1996 Mar;27(2):269–72

Is the mitochondrial benzodiazepine receptor involved in the control of airway smooth muscle tone? Pelaia G, et al. **Gen Pharmacol** 1997 Apr;28(4):495–8 (18 ref.)

Quantitative fluorescence measurements of chloride secretion in native airway epithelium from CF and non-CF subjects. Stern M, et al. **Gene Ther** 1995 Dec;2(10):766–74

The fucosylation and secretion of mucins synthesized in human bronchial cells vary according to growth conditions. Emery N, et al. **Glycobiology** 1997 Feb; 7(1):95–101

Effects of transforming growth factor-beta 1 and phorbol ester on PAI-1 and PA genes in human lung cells. Jakowlew SB, et al. **Growth Factors** 1997;14(2–3):177–97

Human neutrophil lipocalin (HNL) is a specific granule constituent of the neutrophil granulocyte. Studies in bronchial and lung parenchymal tissue and peripheral blood cells. Sevéus L, et al. **Histochem Cell Biol** 1997 May; 107(5):423–32

Modulation of the glycoconjugate expression in the tracheo-bronchial epithelium during sustained hypovitaminosis A. Zschabitz A, et al. **Histol Histopathol** 1996 Apr;11(2):395–405

Immunoreactive B1 receptors in human transbronchial tissue. Nadar R, et al. **Immunopharmacology** 1996 Jun; 33(1–3):317–20

Eosinophil cationic protein induces insulin-like growth factor I receptor expression on bronchial epithelial cells. Chihara J, et al. **Int Arch Allergy Immunol** 1996;111 Suppl 1:43–5

Elevated expression of messenger ribonucleic acid encoding IL-13 in the bronchial mucosa of atopic and nonatopic subjects with asthma. Humbert M, et al. **J Allergy Clin Immunol** 1997 May;99(5):657–65

Upregulation of alpha GM-CSF-receptor in nonatopic asthma but not in atopic asthma. Kotsimbos AT, et al. **J Allergy Clin Immunol** 1997 May;99(5):666–72

Expression of IL-6, IL-8, and RANTES on human bronchial epithelial cells, NCI-H292, induced by influenza virus A. Matsukura S, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1080–7

Eosinophil peroxidase stimulates the release of granulocyte-macrophage colony-stimulating factor from bronchial epithelial cells. Motojima S, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S216–23

Use of antibodies directed against blood group substances and lectins together with glycosidase digestion to study the composition and cellular distribution of glycoproteins in the large human airways. Bals R, et al. **J Anat** 1997 Jan;190 (Pt 1):73–84

Pharmacokinetics and bronchial diffusion of single daily dose amikacin in cystic fibrosis patients. Canis F, et al. **J Antimicrob Chemother** 1997 Mar;39(3):431–3

Bronchial vascular reabsorption of low-protein interstitial edema liquid in perfused sheep lungs. Fukue M, et al. **J Appl Physiol** 1996 Aug;81(2):810–5

Interferon gamma and interleukin 4 stimulate prolonged expression of inducible nitric oxide synthase in human airway epithelium through synthesis of soluble mediators. Guo FH, et al. **J Clin Invest** 1997 Aug 15;100(4):829–38

Human airway smooth muscle cells express and release RANTES in response to T helper 1 cytokines: regulation by T helper 2 cytokines and corticosteroids. John M, et al. **J Immunol** 1997 Feb 15;158(4):1841–7

Proteases from Aspergillus fumigatus induce release of proinflammatory cytokines and cell detachment in airway epithelial cell lines. Tomee JF, et al. **J Infect Dis** 1997 Jul;176(1):300–3

Molecular damage in the bronchial epithelium of current and former smokers. Wistuba II, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1366–73

Pharmacokinetics of nebulized sodium ceftiofur in calves. Vermeersch H, et al. **J Vet Pharmacol Ther** 1996 Apr; 19(2):152–4

Non-neuronal acetylcholine, a signalling molecule synthezised by surface cells of rat and man. Klapproth H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):515–23

Bombesin-like peptide receptors in human bronchial epithelial cells. Kane MA, et al. **Peptides** 1996;17(1):111–8

Epithelial antibiotic induced in states of disease. Stolzenberg ED, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8686–90

Uptake of 12-HETE by human bronchial epithelial cells (HBEC): effects on HBEC cytokine production. Gormand F, et al. **Prostaglandins** 1996 Apr;51(4):263–73

Granulocyte-macrophage colony stimulating factors (GM-CSF) and interleukin 8 (IL-8) production by human bronchial epithelial cells (HBEC) in asthmatics and controls. Lack of in vitro effect of salbutamol compared to sodium nedocromil. Gormand F, et al. **Pulm Pharmacol** 1995 Apr–Jun;8(2–3):107–13

Phosphoramidon and thiorphan suppress the generation of endothelin (ET) from exogenous big-endothelin by guinea pig Clara cells. Laporte J, et al. **Regul Pept** 1997 Jan 29; 68(2):105–9

Inositol phosphate turnover in human airways: effect of arachidonic acid metabolism. Marmy N, et al. **Respir Physiol** 1996 Apr–May;104(1):77–84

A mathematical model of bronchial absorption of vapors in the human lung and its significance in pharmacokinetic modeling. Shelley ML, et al. **SAR QSAR Environ Res** 1996;

5(4):221–53
Effect of inhaled glucocorticoids on IL–1 beta and IL–1 receptor antagonist (IL–1 ra) expression in asthmatic bronchial epithelium. Sousa AR, et al. **Thorax** 1997 May; 52(5):407–10
Induction of prostaglandin H synthase 2 in human airway epithelial cells exposed to residual oil fly ash. Samet JM, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):159–68
Effects of clenbuterol as a repartitioning agent on beta–adrenoceptor concentrations in heart, bronchi and brain of veal calves. Re G, et al. **Vet J** 1997 Jan; 153(1):63–70
[Infiltration of inflammatory cells and expression of adhesion molecules in bronchial mucosa of patients with asthma] Nakamura Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34(12):1317–25 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Presence of Chlamydia pneumoniae strain TWAR in bronchial secretions collected from HIV–positive and negative patients: preliminary data [letter] Scaglione F, et al. **AIDS** 1996 Sep;10(10):1178–9
The effects of bacterial products on airway cells and their function. Wilson R, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S197–201 (50 ref.)
"Blind" protected specimen brushing versus bronchoscopic techniques in the aetiolological diagnosis of ventilator–associated pneumonia [see comments] Bello S, et al. **Eur Respir J** 1996 Jul;9(7):1494–9. Comment in: Eur Respir J 1996 Jul;9(7):1339–41.
ICAM–1 expression and low–molecular–weight G–protein activation of human bronchial epithelial cells (A549) infected with RSV. Arnold R, et al. **J Leukoc Biol** 1996 Dec;60(6):766–71

PARASITOLOGY

Pulmonary cryptosporidiosis in the acquired immunodeficiency syndrome. Meynard JL, et al. **Infection** 1996 Jul–Aug;24(4):328–31

PATHOLOGY

High–resolution computed tomography of airway changes after induced bronchoconstriction and bronchodilation in asthmatic volunteers. Kee ST, et al. **Acad Radiol** 1996 May; 3(5):389–94
Pediatric case of the day. Pulmonary sling with tracheal stenosis and bronchus suis. Berlin SC, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):305, 308
Bronchiolitis obliterans due to neuroendocrine hyperplasia: high–resolution CT—pathologic correlation. Brown MJ, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1561–2
The role of alveolar macrophages and dendritic cells in allergic airway sensitization. Jansen HM. **Allergy** 1996 May; 51(5):279–92 (138 ref.)
IL–4 and IL–5 mRNA and protein in bronchial biopsies from patients with atopic and nonatopic asthma: evidence against "intrinsic" asthma being a distinct immunopathologic entity. Humbert M, et al. **Am J Respir Crit Care Med** 1996 Nov; 154(5):1497–504
Eosinophils and T cells in fatal asthma [letter; comment] Jahnsen FL, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1167–8. Comment on: Am J Respir Crit Care Med 1996 Jul;154(1):224–30.
Pathology of mild, severe, and fatal asthma. Kay AB. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S66–9 (35 ref.)
Alveolar tissue inflammation in asthma. Kraft M, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1505–10
Inhaled gentamicin reduces airway neutrophil activity and mucus secretion in bronchiectasis. Lin HC, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2024–9
Inflammation in bronchial biopsies of subjects with chronic bronchitis: inverse relationship of CD8+ T lymphocytes with FEV1. O'Shaughnessy TC, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):852–7
Cyclosporine A inhibits airway reactivity and remodeling after chronic antigen challenge in cats. Padrid PA, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1812–8
CD4–positive T–lymphocytes infiltrate the bronchial mucosa of patients with Sjögren's syndrome. Papiris SA, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):637–41
Cellular distribution of bronchus–associated lymphoid tissue in rheumatoid arthritis. Sato A, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1903–7
Effects of neurokinin depletion on airway inflammation induced by chronic antigen exposure. Tibério IF, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1739–47
Parainfluenza virus–induced persistence of airway inflammation, fibrosis, and dysfunction associated with TGF–beta 1 expression in brown Norway rats. Uhl EW, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1834–42
Transforming growth factor–beta expression in mucosal biopsies in asthma and chronic bronchitis. Vignola AM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):591–9
Nodular histiocytic/mesothelial hyperplasia: a lesion potentially mistaken for a neoplasm in transbronchial biopsy. Chan JK, et al. **Am J Surg Pathol** 1997 Jun; 21(6):658–63
Results of resection of T3 non–small cell lung cancer invading the mediastinum or main bronchus. Pitz CC, et al. **Ann Thorac Surg** 1996 Oct;62(4):1016–20
Detection of trisomy 7 in nonmalignant bronchial epithelium from lung cancer patients and individuals at risk for lung cancer. Crowell RE, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):631–7
Bronchial subepithelial fibrosis correlates with airway responsiveness to methacholine. Boulet LP, et al. **Chest** 1997 Jul;112(1):45–52
Airways remodeling is a distinctive feature of asthma and is related to severity of disease. Chetta A, et al. **Chest** 1997 Apr;111(4):852–7
Tracheobronchial histopathology in habitual smokers of cocaine, marijuana, and/or tobacco. Fligiel SE, et al. **Chest** 1997 Aug;112(2):319–26
Endobronchial disease and racial differences in pulmonary sarcoidosis [see comments] Torrington KG, et al. **Chest** 1997 Mar;111(3):619–22. Comment in: Chest 1997 Apr;111(4):838–40.
Induction of hyperresponsiveness in human airway tissue by neutrophils—mechanism of action. Anticevich SZ, et al. **Clin Exp Allergy** 1996 May;26(5):549–56
Inhibition of airways inflammation by dexamethasone is followed by reduced bronchial hyperreactivity in BP2 mice. Eum SY, et al. **Clin Exp Allergy** 1996 Aug; 26(8):971–9
Comparison of inflammatory cell counts in asthma: induced sputum vs bronchoalveolar lavage and bronchial biopsies. Grootendorst DC, et al. **Clin Exp Allergy** 1997 Jul; 27(7):769–79
Increased numbers of dendritic cells in the bronchial mucosa of atopic asthmatic patients: downregulation by inhaled corticosteroids. Möller GM, et al. **Clin Exp Allergy** 1996 May;26(5):517–24
Challenge tests in nose and bronchi: pharmacological modulation of rhinitis and asthma. Mygind N, et al. **Clin Exp Allergy** 1996 May;26 Suppl 3:39–43 (35 ref.)
Response of nose and bronchi to exercise in asthma and rhinitis: similarities and differences. Picado C. **Clin Exp Allergy** 1996 May;26 Suppl 3:36–8 (9 ref.)
Airway structure and inflammatory cells in fatal attacks of asthma. Carroll N, et al. **Eur Respir J** 1996 Apr;9(4):709–15
The distribution of eosinophils and lymphocytes in the large and small airways of asthmatics. Carroll N, et al. **Eur Respir J** 1997 Feb;10(2):292–300
Bronchial vascular congestion and angiogenesis. Charan NB, et al. **Eur Respir J** 1997 May;10(5):1173–80 (68 ref.)
Bronchial biopsies and airway inflammation [editorial; comment] Jeffery PK. **Eur Respir J** 1996 Aug;9(8):1583–7 (74 ref.). Comment on: Eur Respir J 1996 Aug;9(8):1665–71.
Continuity of airway goblet cells and intraluminal mucus in the airways of patients with bronchial asthma. Shimura S, et al. **Eur Respir J** 1996 Jul;9(7):1395–401
Mucous cell metaplasia in the airways of rats exposed to machining fluids. Gordon T, et al. **Fundam Appl Toxicol** 1995 Dec;28(2):274–82
Contractile responses and structure of small bronchi isolated from rats after 20 months' exposure to ozone. Szarek JL, et al. **Fundam Appl Toxicol** 1995 Dec;28(2):199–208
The potential role of mast cells in lung allograft rejection. Yousem SA. **Hum Pathol** 1997 Feb;28(2):179–82
"Web–like obstruction"—a sign of regional complete remission after concurrent chemoradiotherapy in small cell lung cancer. Hanada T, et al. **Intern Med** 1996 Sep; 35(9):732–5
A fibrous histiocytoma with a polypoid pattern of growth in a major bronchus. Maeda Y, et al. **Intern Med** 1996 Sep; 35(9):724–7
Inflammation of small airways in asthma. Hamid Q, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):44–51
Bronchial biopsy findings in intermittent or "early" asthma. Laitinen LA, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S3–6; discussion S33–40
Light and electron microscope study in allergic rhinitis patients (ARP) with or without bronchial hyperreactivity (BHR). Bavbek S, et al. **J Investig Allergol Clin Immunol** 1996 May–Jun;6(3):172–82
Value of rigid bronchoscopy and cytodiagnosis of bronchial washings in detecting bronchial carcinoma in the presence of a carcinoma of the upper aerodigestive tract. Dhooge I, et al. **J Otolaryngol** 1996 Aug;25(4):219–22
Bronchial necrosis induced by inhalation of an iron tablet. Babatasi G, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1397–9
Development of bronchus–associated lymphoid tissue in goats. Barman NN, et al. **Lung** 1996;174(2):127–31
Comparison of spontaneous and induced mutation rates in an immortalized human bronchial epithelial cell line and its tumorigenic derivative. Wittenkeller JL, et al. **Oncology** 1997 Jul–Aug;54(4):335–41
Respiratory tract cryptosporidiosis in immunosuppressed rat is associated with an epithelial metaplasia. Roussel F, et al. **Parasite** 1995 Mar;2(1):85–7
Regeneration of bronchial epithelium on chronic inflammatory changes under laser treatment. Polosukhin VV. **Pathol Res Pract** 1996 Sep;192(9):909–18
Endoscopic dilation of acquired tracheobronchial stenosis in infants. Messineo A, et al. **Pediatr Pulmonol** 1997 Feb; 23(2):101–4
Increased airway reactivity in human RSV bronchiolitis in the guinea pig is not due to increased wall thickness. Robinson PJ, et al. **Pediatr Pulmonol** 1996 Oct;22(4):248–54
Extrinsic airway compression secondary to pulmonary arterial conduits: MR findings. Donnelly LF, et al. **Pediatr Radiol** 1997 Mar;27(3):268–70
Molecular identification of individuals at high risk for lung cancer. Lechner JF, et al. **Radiat Oncol Investig** 1997; 5(3):103–5
Thickness of the basement membrane of bronchial epithelial cells in lung diseases as determined by transbronchial biopsy. Watanabe K, et al. **Respir Med** 1997 Aug; 91(7):406–10
Computer–tomographically guided fiberbronchoscopic transbronchial biopsy of small pulmonary lesions: a feasibility study. Wagner U, et al. **Respiration** 1996; 63(3):181–6
Surgical treatment of endobronchial tuberculosis. Hsu HS, et al. **Scand Cardiovasc J** 1997;31(2):79–82
The best site for bronchial stapling in left and right upper lobectomies: a comparative study. Akamatsu H, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):131–3
Effects of airway infection by Pseudomonas aeruginosa: a computed tomographic study. Miszkiel KA, et al. **Thorax** 1997 Mar;52(3):260–4
Airway wall remodelling in asthma [editorial] Redington AE, et al. **Thorax** 1997 Apr;52(4):310–2
Neovascularization in hyperplastic, metaplastic and potentially preneoplastic lesions of the bronchial mucosa. Fisseler–Eckhoff A, et al. **Virchows Arch** 1996 Oct; 429(2–3):95–100
Bronchiolitis obliterans in ataxia–telangiectasia. Ito M, et al. **Virchows Arch** 1997 Feb;430(2):131–7
[Comparative observation on the relationship between the MEFV and the visual inspection of small airway] Zhao M, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1996 Feb;19(1):18–21 (Eng. Abstr.) **(Chi)**
[Bronchial asthma. Physiopathology. Classic conception and new concepts] Michel FB, et al. **Presse Med** 1997 Apr 19; 26(13):621–31 (157 ref.) (Eng. Abstr.) **(Fre)**
[Cell types of respiratory epithelium: morphology, molecular biology and clinical significance] Bals R. **Pneumologie** 1997 Feb;51(2):142–9 (79 ref.) (Eng. Abstr.) **(Ger)**
[Histological evaluation of bronchial tissue from elderly individuals with bronchial asthma] Aoki K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1421–9 (Eng. Abstr.) **(Jpn)**
[Clinico–pathological analysis of airway abnormalities in patients with chronic eosinophilic pneumonia] Kobayashi H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1343–8 (Eng. Abstr.) **(Jpn)**
[Histopathological changes and hyperresponsiveness in asthmatic airways: relationship to peak expiratory flow] Sugiyama K, et al. **Nippon Rinsho** 1996 Nov;54(11):2944–8 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Metaplasia of the bronchial mucosa in the respiratory tract of patients with chronic bronchitis] Bielecki M, et al. **Pneumonol Alergol Pol** 1996;64(11–12):842–5 (19 ref.) **(Pol)**
[A case of sarcoidosis with massive pleural and pericardial effusion] Krawczyk I, et al. **Pneumonol Alergol Pol** 1997; 65(1–2):81–5 (Eng. Abstr.) **(Pol)**
[Morphometric and ultrastructural characterization of the bronchial smooth musculature in experimental bronchospasm] Zashikhin AL, et al. **Arkh Patol** 1997 Mar–Apr;59(2):38–41 (Eng. Abstr.) **(Rus)**
[Diagnosis of tuberculosis of the large bronchi by different bronchoscopies] Ismailov SS. **Probl Tuberk** 1997;(3):32–4 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Epithelium, microcirculation, and eosinophils—new aspects of the allergic airway in vivo. Persson CG, et al. **Allergy** 1997 Mar;52(3):241–55 (98 ref.)
Mutual inhibition by TGF–beta and IL–4 in cultured human bronchial epithelial cells. Adachi Y, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L701–8
Adenosine receptor–mediated relaxation of rabbit airway smooth muscle: a role for nitric oxide. Ali S, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L581–7
Fibronectin supports bronchial epithelial cell adhesion and survival in the absence of growth factors. Aoshiba K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L684–93
Cell–matrix and cell–cell interactions modulate apoptosis of bronchial epithelial cells. Aoshiba K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L28–37
Stimulation of both human bronchial epithelium and neutrophils is needed for maximal interactive adhesion. Bloemen PG, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):L80–7
Volume transport across tracheal and bronchial airway epithelia in a tubular culture system. Grubb BR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C21–9
Acetylcholine and caffeine activate Cl– and suppress K+ conductances in human bronchial smooth muscle. Janssen LJ. **Am J Physiol** 1996 May;270(5 Pt 1):L772–81
T–type and L–type Ca2+ currents in canine bronchial smooth muscle: characterization and physiological roles. Janssen LJ. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1757–65
IL–1 beta alters beta–adrenergic receptor adenylyl cyclase system function in human airway epithelial cells. Kelsen SG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L694–700
Dimethyl sulfoxide decreases interleukin–8–mediated neutrophil recruitment in the airways. Massion PP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L838–43

Evidence for functional tachykinin NK1 receptors on human isolated small bronchi. Naline E, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L763–7

Epithelial cell–conditioned media inhibits degranulation of the RBL–2H3 rat mast cell line. Peden DB, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1181–8

Expression of integrin cell adhesion receptors during human airway epithelial repair in vivo. Pilewski JM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L256–63

Enhancement of airway epithelial Na+,K(+)-ATPase activity by NO2 and protective role of nordihydroguaiaretic acid. Robison TW, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L266–72

Morphologic and functional properties of bronchial cells isolated from normal and asthmatic subjects. Goulet F, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):312–8

Volume history effects and airway responsiveness in middle–aged and older men. The Normative Aging Study. Sparrow D, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):888–92

Displacement of the double–lumen endobronchial tube can be detected by bronchial cuff pressure change. Araki K, et al. **Anesth Analg** 1997 Jun;84(6):1349–53

Inhibition of airway constriction by opioids is different down the isolated bovine airway. Zappi L, et al. **Anesthesiology** 1997 Jun;86(6):1334–41

Alpha 1 adrenergic bronchomotor tone in guinea–pigs. Marcelle R. **Arch Physiol Biochem** 1996 Dec;104(7):814–8

CFTR–like chloride channels in non–ciliated bronchiolar epithelial (Clara) cells. Chinet TC, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):470–5

Inherent tone of human bronchus: role of eicosanoids and the epithelium. Watson N, et al. **Br J Pharmacol** 1997 Jul; 121(6):1099–104

Cytogenetic and molecular genetic analysis of tumorigenic human bronchial epithelial cells induced by radon alpha particles. Weaver DA, et al. **Carcinogenesis** 1997 Jun; 18(6):1251–7

Ciliary beat frequency in human bronchi and bronchioles. Clary–Meinesz C, et al. **Chest** 1997 Mar;111(3):692–7

Physiology of airway narrowing. Mitchell HW. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr;24(3–4):256–60

Endothelin–A receptor–mediated prostanoid secretion via autocrine and deoxyribonucleic acid synthesis via paracrine signaling in human bronchial epithelial cells. Takimoto M, et al. **Endocrinology** 1996 Nov;137(11):4542–50

Healing of the bronchus in pulmonary transplantation. Wilson IC, et al. **Eur J Cardiothorac Surg** 1996;10(7):521–6; discussion 526–7

L–NAME–sensitive and –insensitive nonadrenergic noncholinergic relaxation of cat airway in vivo and in vitro. Aizawa H, et al. **Eur Respir J** 1997 Feb;10(2):314–21

Effect of transmural pressure on preloads and collapse of immature bronchi. McFawn PK, et al. **Eur Respir J** 1997 Feb;10(2):322–9

Bronchial compliance and wall structure during development of the immature human and pig lung. McFawn PK, et al. **Eur Respir J** 1997 Jan;10(1):27–34

Ion channels in freshly isolated and cultured human bronchial smooth muscle cells. Snetkov VA, et al. **Exp Physiol** 1996 Sep;81(5):791–804

Branching design of the bronchial tree based on a diameter–flow relationship. Kitaoka H, et al. **J Appl Physiol** 1997 Mar;82(3):968–76

Conservation of bronchiolar wall area during constriction and dilation of human airways. Mitchell RW, et al. **J Appl Physiol** 1997 Mar;82(3):954–8

Gas dispersion in a model pulmonary bifurcation during oscillatory flow. Nishida M, et al. **J Biomech Eng** 1997 Aug;119(3):309–16

Numerical modeling of steady inspiratory airflow through a three–generation model of the human central airways. Wilquem F, et al. **J Biomech Eng** 1997 Feb;119(1):59–65

Inspiratory and expiratory steady flow analysis in a model symmetrically bifurcating airway. Zhao Y, et al. **J Biomech Eng** 1997 Feb;119(1):52–8

Role of soluble guanylyl cyclase in the relaxations to a nitric oxide donor and to nonadrenergic nerve stimulation in guinea pig trachea and human bronchus. Ellis JL. **J Pharmacol Exp Ther** 1997 Mar;280(3):1215–8

Nonpeptide endothelin receptor antagonists. IX. Characterization of endothelin receptors in guinea pig bronchus with SB 209670 and other endothelin receptor antagonists. Hay DW, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):959–65

Non–neurogenic electrically evoked relaxation in canine airway muscle involves action of free radicals on K+ channels. Janssen LJ, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):813–21

Muscarinic control of airway function. Zaagsma J, et al. **Life Sci** 1997;60(13–14):1061–8 (40 ref.)

Maturational aspects of human airway smooth muscle function. Panitch HB. **Monaldi Arch Chest Dis** 1996 Oct; 51(5):413–8 (41 ref.)

Chronic unilateral occlusion of an extrapulmonary primary bronchus induces pulmonary hypertension syndrome (ascites) in male and female broilers. Wideman RF Jr, et al. **Poult Sci** 1997 Feb;76(2):400–4

Isolated, electrically–stimulated airway preparations—their use in determining beta–adrenoceptor agonist activity. Coleman RA, et al. **Pulm Pharmacol** 1996 Apr;9(2):107–17

Diameter–based analysis of the branching geometry of four mammalian bronchial trees. Phillips CG, et al. **Respir Physiol** 1995 Dec;102(2–3):303–16

Vagal bronchopulmonary C–fibers and acute ventilatory response to inhaled irritants. Wang AL, et al. **Respir Physiol** 1996 Jul;104(2–3):231–9

Epithelial barrier formation by airway basal cells. Erjefält JS, et al. **Thorax** 1997 Mar;52(3):213–7

[Interaction between tumor necrosis factor–alpha and the smooth muscle cells of the airway: implication in the physiopathology of asthma] Amrani Y, et al. **Rev Mal Respir** 1996 Dec;13(6):539–46 (49 ref.) (Eng. Abstr.) **(Fre)**

[The effect of a heat and moisture exchanger (HME) on bronchial mucus transport in a closed inhalation anesthesia system] Konrad F, et al. **Anaesthesist** 1996 Sep;45(9):802–6 (Eng. Abstr.) **(Ger)**

[Chronobiology of the bronchial system] Marek W. **Pneumologie** 1997 Apr;51 Suppl 2:430–9 (59 ref.) (Eng. Abstr.) **(Ger)**

[Interactions between bronchial epithelial cells and extracellular matrix proteins] Ito H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:131–5 (Eng. Abstr.) **(Jpn)**

[Relation between the sialic acid/fucose ratio in airway secretions and the degree of airway remodeling in bronchial asthma—reversibility of airflow limitation by beta–agonists and airway remodeling in bronchial asthma] Kobayashi H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:54–8 (Eng. Abstr.) **(Jpn)**

[An automated system for determining tracheobronchial resistance] Ul'kin SV, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov; 82(10–11):126–30 **(Rus)**

PHYSIOPATHOLOGY

Endogenous nitric oxide and allergic bronchial hyperresponsiveness in guinea pigs. Mehta S, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L656–62

Lipid mediators in oxygen–induced airway remodeling and hyperresponsiveness in newborn rats. Burghardt JS, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):837–42

Rhinovirus infection preferentially increases lower airway responsiveness in allergic subjects. Gern JE, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1872–6

Effect of short–term treatment with low–dose inhaled fluticasone propionate on airway inflammation and remodeling in mild asthma: a placebo–controlled study. Olivieri D, et al. **Am J Respir Crit Care Med** 1997 Jun; 155(6):1864–71

The allergen Der p1 induces NF–kappaB activation through interference with IkappaB alpha function in asthmatic bronchial epithelial cells. Stacey MA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):522–6

Detection of small airway dysfunction using specific airway conductance. Bassiri AG, et al. **Chest** 1997 Jun; 111(6):1533–5

Airway function correlates with circulating eosinophil, but not mast cell, markers of inflammation in childhood asthma. Rao R, et al. **Clin Exp Allergy** 1996 Jul;26(7):789–93

Mediators on human airway smooth muscle. Armour C, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr; 24(3–4):269–72 (32 ref.)

Deposition and clearance in large and small airways in chronic bronchitis. Svartengren K, et al. **Exp Lung Res** 1996 Sep–Oct;22(5):555–76

Contractile responses and structure of small bronchi isolated from rats after 20 months' exposure to ozone. Szarek JL, et al. **Fundam Appl Toxicol** 1995 Dec;28(2):199–208

Innate defect? Bronchial epithelial cells of atopic patients with asthma lack the ability to activate allergens. Kimber I. **Hum Exp Toxicol** 1996 May;15(5):455

Effects of edema on small airway narrowing. Wagner EM. **J Appl Physiol** 1997 Sep;83(3):784–91

Impaired bronchial healing after lung donation from non–heart–beating donors. Binns OA, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1084–92

Abnormal modulation of cholinergic neurotransmission by endogenous nitric oxide in the bronchus of rats with hyperresponsiveness induced by allergen challenge. Misawa M, et al. **Jpn J Pharmacol** 1997 Feb;73(2):125–32

Quantitative assessment of intrathoracic airway collapse in infants and children with tracheobronchomalacia. Rozycki HJ, et al. **Pediatr Pulmonol** 1996 Apr;21(4):241–5

Independent and simultaneous unilateral occlusion of the pulmonary artery and extra–pulmonary primary bronchus in broilers. Wideman RF Jr, et al. **Poult Sci** 1996 Nov; 75(11):1417–27

[Comparison of nasal and bronchial production of nitric oxide in healthy probands and patients with asthma] Kirsten AM, et al. **Pneumologie** 1997 Apr;51(4):359–64 (Eng. Abstr.) **(Ger)**

[An increase of nonspecific airway hyperreactivity after repeated challenge with subthreshold doses of allergen in asthma patients] Grzelewska–Rzymowska I, et al. **Pneumonol Alergol Pol** 1997;65(1–2):45–52 (Eng. Abstr.) **(Pol)**

[The prostacyclin–thromboxane system and bronchial patency in patients with pulmonary tuberculosis] Petrenko VI. **Lik Sprava** 1996 Mar–Apr;(3–4):69–71 (Eng. Abstr.) **(Rus)**

[Humoral transport of the bronchi and its correction in bronchial asthma] Osipov AK. **Ter Arkh** 1997;69(3):74–8 (37 ref.) **(Rus)**

[The effect of interference currents on bronchial patency and bronchial hyperreactivity in children with bronchial asthma] Bykova MV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr; (2):15–8 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Cytogenetic and molecular genetic analysis of tumorigenic human bronchial epithelial cells induced by radon alpha particles. Weaver DA, et al. **Carcinogenesis** 1997 Jun; 18(6):1251–7

Deposition of monodisperse particles in hollow models representing adult and child–size tracheobronchial airways. Oldham MJ, et al. **Health Phys** 1997 Jun;72(6):827–34

Regeneration of bronchial epithelium on chronic inflammatory changes under laser treatment. Polosukhin VV. **Pathol Res Pract** 1996 Sep;192(9):909–18

RADIOGRAPHY see BRONCHOGRAPHY

RADIONUCLIDE IMAGING

Radioiodine bronchogram in acute respiratory tract infection. Bakheet SM, et al. **Clin Nucl Med** 1997 May;22(5):308–9

SECRETION

In situ visualization of bronchial submucosal glands and their secretory response to acetylcholine. Inglis SK, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L203–10

Inhaled gentamicin reduces airway neutrophil activity and mucus secretion in bronchiectasis. Lin HC, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2024–9

Increased interleukin–8 release by beta–adrenoceptor activation in human transformed bronchial epithelial cells. Lindén A. **Br J Pharmacol** 1996 Sep;119(2):402–6

Ozone–induced mediator release from human bronchial epithelial cells in vitro and the influence of nedocromil sodium. Rusznak C, et al. **Eur Respir J** 1996 Nov; 9(11):2298–305

Extracellular release of the type I intracellular IL–1 receptor antagonist from human airway epithelial cells: differential effects of IL–4, IL–13, IFN–gamma, and corticosteroids. Levine SJ, et al. **J Immunol** 1997 Jun 15;158(12):5949–57

Endothelin–1 induces GM–CSF, IL–6 and IL–8 but not G–CSF release from a human bronchial epithelial cell line (BEAS–2B). Mullol J, et al. **Neuropeptides** 1996 Dec; 30(6):551–6

[Effects of leukotrienes on bronchial secretions] Chinet T, et al. **Rev Pneumol Clin** 1997;53(2):86–90 (21 ref.) (Eng. Abstr.) **(Fre)**

SURGERY

Application of SHFJV for surgical procedures. Donner A, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:153–7

The role of bronchoplasty in the treatment of lung cancer. Sioris T, et al. **Ann Chir Gynaecol** 1997;86(1):31–7

1989: tissue adhesive in bronchial closure. Updated in 1997. Sabanatham A, et al. **Ann Thorac Surg** 1997 Mar; 63(3):899–900

Experimental patch bronchoplasty with ringed vascular graft. Liu HP, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):225–8

Experimental gluing of the bronchial stump after pneumonectomy in rats. Wertzel H, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):88–91

Experience in tracheobronchial reconstruction with a costal cartilage graft for congenital tracheal stenosis. Kamata S, et al. **J Pediatr Surg** 1997 Jan;32(1):54–7

Successful bronchotracheal reconstruction in esophageal bronchus: two case reports. Michel JL, et al. **J Pediatr Surg** 1997 May;32(5):739–42

Comparison of the surgical results of lobectomy with bronchoplasty and pneumonectomy for lung cancer. Yoshino I, et al. **J Surg Oncol** 1997 Jan;64(1):32–5

Primary repair of rupture of a main and lobar bronchus. Muysoms FE, et al. **J Thorac Cardiovasc Surg** 1997 Feb; 113(2):415–7

Closure with bronchial wall flap and omental pedicle of defect caused by dehiscence of tracheal suture line after extended right upper sleeve lobectomy. Suzuki T, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1116–7

Emergency sleeve lobectomy after blunt chest trauma in a child. McCarthy JF, et al. **J Trauma** 1996 Nov;41(5):892–4

Telescoping bronchial anastomoses for unilateral or bilateral sequential lung transplantation: CT appearance. McAdams HP, et al. **Radiology** 1997 Apr;203(1):202–6

An alternative, non–sleeve technique for reconstruction of main and secondary carina. Antypas GD, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):207–10

Bronchoscopic evaluation of bronchial healing after carinal reconstruction. Akamine S, et al. **Surg Today** 1996; 26(6):407–12

Omentopexy for anastomotic dehiscence after tracheal sleeve pneumonectomy. Okada M, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):144–5

[The late results of the surgical treatment of congenital anomalies of the bronchopulmonary system in childhood] Mikhaĭlova V, et al. **Khirurgiia (Sofiia)** 1996;49(3):13–8 (Eng. Abstr.) **(Bul)**

[Treatment by CO2 broncho–laser for acquired tracheobronchial stenosis in children with

bronchopulmonary dysplasia] Wagner I, et al. **Arch Pediatr** 1996 Nov;3(11):1079–83 (Eng. Abstr.) **(Fre)**

[Endobronchial complications in lung and heart–lung transplantation] Bonnette P. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S49–56 (51 ref.) (Eng. Abstr.) **(Fre)**

[Invaginated bronchoplasty: wedge resection and sleeve reconstruction] Nazari S, et al. **Minerva Chir** 1996 Jun; 51(6):413–9 (Eng. Abstr.) **(Ita)**

[A case of mucoepidermoid carcinoma underwent middle and lower sleeve bi–lobectomies with carinal reconstruction] Nakamura H, et al. **Kyobu Geka** 1996 Jul; 49(7):526–8 (Eng. Abstr.) **(Jpn)**

[A case of bronchial stenosis due to postoperative inflammation treated with expandable metallic stent] Tabata S, et al. **Kyobu Geka** 1997 Jun;50(6):507–10 (Eng. Abstr.) **(Jpn)**

[The effect of basic fibroblast growth factor (bFGF) on early bronchial revascularization] Oyama K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2032–9 (Eng. Abstr.) **(Jpn)**

[Selection of staple for closure of the lobar bronchus] Takizawa T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1717–20 (Eng. Abstr.) **(Jpn)**

[Complicated bronchoplasty for lung cancer—its significance in salvaging a few segments of lung] Tsubota N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):595–9 (Eng. Abstr.) **(Jpn)**

[Traumatic transection of the left main bronchus and laryngeal fracture resulting from blunt trauma—a successful case of emergency operation] Ogawa J, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):498–501 (Eng. Abstr.) **(Jpn)**

[Bronchial resections] Baksaas ST, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10;117(15):2179–80 (Eng. Abstr.) **(Nor)**

[Bronchoplasty in bronchopulmonary tumors. Review of 50 cases] Casillas Pajuelo M, et al. **Arch Bronconeumol** 1996 Oct;32(8):388–93 (Eng. Abstr.) **(Spa)**

[The treatment of the tracheobronchial stenosis by extracorporeal circulation] Lassaletta Garbayo L, et al. **Cir Pediatr** 1997 Apr;10(2):70–3 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Reconstruction of trachea and carina with immediate or cryopreserved allografts in dogs. Inutsuka K, et al. **Ann Thorac Surg** 1996 Nov;62(5):1480–4

A new large animal heterotopic lung and bronchial allograft model for research in obliterative bronchiolitis. Ikonen T, et al. **Transplant Proc** 1997 Sep;29(6):2611–2

ULTRASTRUCTURE

The mechanism of bronchial hyperreactivity in allergic rhinitis patients. A light microscopic study on BAL and bronchial biopsy. Bavbek S, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):45–53

Membranous bronchioles and connective tissue network of normal and emphysematous lungs. Verbeken EK, et al. **J Appl Physiol** 1996 Dec;81(6):2468–80

Light and electron microscope study in allergic rhinitis patients (ARP) with or without bronchial hyperreactivity (BHR). Bavbek S, et al. **J Investig Allergol Clin Immunol** 1996 May–Jun;6(3):172–82

Effects of ischaemia and preservation on the ultrastructure of the bronchiolar epithelium. A quantitative electron microscopic study of human and canine lungs. Stolte N, et al. **Virchows Arch** 1996 Oct;429(2–3):109–18

VIROLOGY

Expression of IL–6, IL–8, and RANTES on human bronchial epithelial cells, NCI–H292, induced by influenza virus A. Matsukura S, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1080–7

Lack of high affinity fiber receptor activity explains the resistance of ciliated airway epithelia to adenovirus infection. Zabner J, et al. **J Clin Invest** 1997 Sep 1; 100(5):1144–9

Transduction by adeno–associated virus vectors in the rabbit airway: efficiency, persistence, and readministration. Halbert CL, et al. **J Virol** 1997 Aug;71(8):5932–41

BRONCHIAL ARTERIES

Massive hemoptysis in pregnancy treated with bronchial artery embolization. Downs TW, et al. **Am J Perinatol** 1997 Jan;14(1):51–3

Two giant bronchial aneurysms: effect of preoperative embolisation. case report. Nakajima H, et al. **Eur J Surg** 1995 Nov;161(11):855–6

Superselective bronchial artery embolization for hemoptysis with a coaxial microcatheter system. Tanaka N, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):65–70

Treatment of recurrent hemoptysis in a child with cystic fibrosis by repeated bronchial artery embolizations and long–term tranexamic acid. Wong LT, et al. **Pediatr Pulmonol** 1996 Oct;22(4):275–9

Control of massive hemoptysis due to pulmonary tuberculosis with bronchial arterial embolization [letter; comment] Lampmann LE. **Radiology** 1997 Sep;204(3):875–6. Comment on: Radiology 1996 Sep;200(3):691–4.

Control of tubercular haemoptysis by bronchial artery embolization. Mani S, et al. **Trop Doct** 1997 Jul;27(3):149–50

[Angiographic identification of spinal cord arteries before bronchial artery embolization] Mesurolle B, et al. **J Radiol** 1997 May;78(5):377–80 (Eng. Abstr.) **(Fre)**

[Investigation of complications of bronchial artery embolization using superselective catheter system and platinum coil–major complications as vascular detachment] Adachi T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):846–50 (Eng. Abstr.) **(Jpn)**

[Metastatic lung cancer from renal cell carcinoma effectively treated by bronchial artery embolization] Akiyama J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1459–63 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

The high opening of the right bronchial artery with a non–typical course. Maciejewski R, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:59–60

Hemoptysis, hepatopulmonary syndrome, and respiratory failure: clinical conference on management dilemmas [clinical conference] Schnader J, et al. **Chest** 1997 Jun; 111(6):1724–32

Major hemoptysis in a child with cystic fibrosis from multiple aberrant bronchial arteries treated with tranexamic acid. Chang AB, et al. **Pediatr Pulmonol** 1996 Dec;22(6):416–20

[Coronary–to–bronchial artery anastomosis, coronary–to–bronchial artery fistula] Iwasaki K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):800–2 (12 ref.) **(Jpn)**

ANATOMY & HISTOLOGY

The bronchial arteries: anatomic study and application to lung transplantation. Carles J, et al. **Surg Radiol Anat** 1995; 17(4):293–9

DRUG EFFECTS

Bronchial vasodilatory response to ionic and nonionic contrast media. Baile EM, et al. **J Appl Physiol** 1997 Mar; 82(3):841–5

Nitric oxide and beta–adrenergic agonist–induced bronchial arterial vasodilation. Charan NB, et al. **J Appl Physiol** 1997 Feb;82(2):686–92

PATHOLOGY

Acute superior vena cava obstruction after rupture of a bronchial artery aneurysm. Hoffmann V, et al. **Chest** 1996 Nov;110(5):1356–8

Treatment of massive haemoptysis with microcoil embolization after en bloc double–lung transplantation with bronchial artery revascularization. Carlsen J, et al. **Eur Respir J** 1997 Feb;10(2):492–3

Bronchial vascular congestion and angiogenesis. Charan NB, et al. **Eur Respir J** 1997 May;10(5):1173–80 (68 ref.)

PHYSIOLOGY

Bronchial arteries in the pig before and after permanent pulmonary artery occlusion. Remy J, et al. **Invest Radiol** 1997 Apr;32(4):218–24

PHYSIOPATHOLOGY

Changes in bronchial and pulmonary arterial blood flow with progressive tension pneumothorax. Carvalho P, et al. **J Appl Physiol** 1996 Oct;81(4):1664–9

RADIOGRAPHY

Comparison of bronchopulmonary collaterals and collateral blood flow in patients with chronic thromboembolic and primary pulmonary hypertension. Endrys J, et al. **Heart** 1997 Aug;78(2):171–6

Bronchial arteries in the pig before and after permanent pulmonary artery occlusion. Remy J, et al. **Invest Radiol** 1997 Apr;32(4):218–24

Bronchial artery aneurysms in association with Mycobacterium avium intracellulare complex. Siegler CM, et al. **J Thorac Imaging** 1996 Spring;11(2):155–7 (15 ref.)

SURGERY

Revascularization of the bronchial arteries in lung transplantation: an overview. Nørgaard MA, et al. **Ann Thorac Surg** 1996 Oct;62(4):1215–21 (45 ref.)

Human en bloc double–lung transplantation: bronchial artery revascularization improves airway perfusion. Sundset A, et al. **Ann Thorac Surg** 1997 Mar;63(3):790–5

Medium term results of direct bronchial arterial revascularisation using IMA for single lung transplantation (SLT with direct revascularisation). Yacoub M, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1030–6

Surgical and arteriographic results of bronchial artery revascularization in lung and heart lung transplantation. Nørgaard MA, et al. **J Heart Lung Transplant** 1997 Mar; 16(3):302–12

Direct bronchial artery revascularization and en bloc double lung transplantation—surgical techniques and early outcome. Pettersson G, et al. **J Heart Lung Transplant** 1997 Mar;16(3):320–33

Intermediate–term results after en bloc double–lung transplantation with bronchial arterial revascularization. Bordeaux Lung and Heart–Lung Transplant Group. Baudet EM, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1292–9; discussion 1299–300

Medium–term patency and anatomic changes after direct bronchial artery revascularization in lung and heart–lung transplantation with the internal thoracic artery conduit. Nørgaard MA, et al. **J Thorac Cardiovasc Surg** 1997 Sep; 114(3):326–31

BRONCHIAL ASTHMA see **ASTHMA**

BRONCHIAL–CONSTRICTING AGENTS see **BRONCHOCONSTRICTOR AGENTS**

BRONCHIAL CONSTRICTION see **BRONCHOCONSTRICTION**

BRONCHIAL CYST see **BRONCHOGENIC CYST**

BRONCHIAL–DILATING AGENTS see **BRONCHODILATOR AGENTS**

BRONCHIAL DISEASES

Bronchial tuberculosis. Cytologic diagnosis of fiberoptic bronchoscopic brushings. Fang X, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1463–7

Bronchial casts in children: a proposed classification based on nine cases and a review of the literature. Seear M, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):364–70 (26 ref.)

Chronic lithoptysis with multiple bilateral broncholiths. Samson IM, et al. **Chest** 1997 Aug;112(2):563–5

Bacterial infections of the bronchial tree. Wilson R. **Curr Opin Pulm Med** 1997 Mar;3(2):105–10 (34 ref.)

[Tracheobronchial amyloidosis: apropos of 3 cases] Ruiz LA, et al. **Arch Bronconeumol** 1996 Oct;32(8):424–6 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

[Bronchial irritation syndrome following inhalation or urea. Histologic and immunohistochemical evaluation] Lemière C, et al. **Rev Mal Respir** 1996 Dec;13(6):595–7 (Eng. Abstr.) **(Fre)**

[A case of broncho–constriction induced by gabexate mesilate] Nomura M, et al. **Arerugi** 1996 Oct;45(10):1133–6 **(Jpn)**

COMPLICATIONS

Pneumothorax ex vacuo [see comments] Woodring JH, et al. **Chest** 1996 Oct;110(4):1102–5. Comment in: Chest 1997 Jul;112(1):293–4.

Acute respiratory failure due to tracheobronchial involvement in Crohn's disease. Lamblin C, et al. **Eur Respir J** 1996 Oct;9(10):2176–8

Broncho–pulmonary cryptosporidiosis in four HIV–infected patients. Poirot JL, et al. **J Eukaryot Microbiol** 1996 Sep–Oct;43(5):78S–79S

[Bronchocele and hemorrhagic rectocolitis: fortuitous association? (letter)] Guichenez P, et al. **Rev Pneumol Clin** 1996;52(6):410–1 **(Fre)**

[A case of Mycobacterium intracellulare infection associated with sinobronchial syndrome] Kobayashi A, et al. **Kekkaku** 1997 Jul;72(7):443–8 (Eng. Abstr.) **(Jpn)**

[Swyer–James syndrome with unilateral pulmonary edema] Nakamura Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):563–8 (Eng. Abstr.) **(Jpn)**

[Tuberculosis of large bronchi, specific features of course and its clinical significance] Ismailov SS. **Probl Tuberk** 1997;(4):31–3 (Eng. Abstr.) **(Rus)**

CONGENITAL

Tetralogy of Fallot with absent pulmonary valve and bronchial compression: treatment with endobronchial stents. Subramanian V, et al. **Pediatr Cardiol** 1997 May–Jun; 18(3):237–9

[Pulmonary changes in high–resolution spiral CT in Williams–Campbell syndrome] Pauleit D, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):589–91 **(Ger)**

DIAGNOSIS

The spectrum of extrinsic lower airway compression in children: MR imaging. Donnelly LF, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):59–62

Navigational aids for real–time virtual bronchoscopy. Summers RM. **AJR Am J Roentgenol** 1997 May; 168(5):1165–70

Magnetic resonance imaging of the pediatric airway. Rimell FL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep; 123(9):999–1003

Mucoid impaction presenting as multiple pulmonary nodules in cystic fibrosis [letter] Carpenter LD, et al. **Aust N Z J Med** 1996 Aug;26(4):574–6

Central airway stenoses: preliminary results of spiral–CT–generated virtual bronchoscopy simulations in 29 patients. Ferretti GR, et al. **Eur Radiol** 1997;7(6):854–9

An unusual cause of recurrent fever. Los H, et al. **Eur Respir J** 1997 Feb;10(2):504–7

Endobronchial hamartoma presenting as massive haemoptysis. Sharkey RA, et al. **Eur Respir J** 1996 Oct;

9(10):2179–80
Bronchial Kaposi's sarcoma after single lung transplantation. Sleiman C, et al. **Eur Respir J** 1997 May;10(5):1181–3
Biphasic spirogram in unilateral mainstem bronchus obstruction—the "two can" filling effect. Joshi JM. **J Assoc Physicians India** 1996 Aug;44(8):583
Spiral CT and endoscopic findings in a case of tracheobronchopathia osteochondroplastica. Mariotta S, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):418–20
Primary bronchomalacia in infants and children. Finder JD. **J Pediatr** 1997 Jan;130(1):59–66
Endobronchial tuberculosis—manifesting by coughing up of bronchial cartilage. Memon AM, et al. **JPMA J Pak Med Assoc** 1996 Apr;46(4):86–8
Quantitative assessment of intrathoracic airway collapse in infants and children with tracheobronchomalacia. Rozycki HJ, et al. **Pediatr Pulmonol** 1996 Apr;21(4):241–5
50 endobronchial tuberculosis cases based on bronchoscopic diagnosis. Altin S, et al. **Respiration** 1997;64(2):162–4
Foolers: things that look like pneumonia in children. Oermann CM, et al. **Semin Respir Infect** 1996 Sep; 11(3):204–13 (31 ref.)
[Endobronchial actinomycosis] Hashimoto A, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Sep; 34(9):989–92 (Eng. Abstr.) **(Jpn)**
[Methods of evaluating airway inflammation] Mita S, et al. **Nippon Rinsho** 1996 Nov;54(11):2898–902 (22 ref.) (Eng. Abstr.) **(Jpn)**
[Osteochondroplastic tracheobronchopathy] Skucha W, et al. **Pneumonol Alergol Pol** 1996;64(11–12):792–7 (Eng. Abstr.) **(Pol)**
[Diagnosis of tuberculosis of the large bronchi by different bronchoscopies] Ismailov SS. **Probl Tuberk** 1997;(3):32–4 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Effect of the 21-aminosteroid U-74006F on antigen-induced bronchoconstriction and bronchoalveolar eosinophilia in allergic sheep. Fujimoto K, et al. **Eur Respir J** 1996 Oct; 9(10):2044–9
Photodynamic therapy to control life-threatening hemorrhage from hereditary hemorrhagic telangiectasia. McCaughan JS Jr, et al. **Lasers Surg Med** 1996;19(4):492–4
[Antibiotic strategy in bronchial infections. Role of roxithromycin] Gaillat J. **Presse Med** 1997 Mar;26 Suppl 2:16–21 (26 ref.) **(Fre)**
[Mucoviscidosis. Antibiotic management] Le Bourgeois M, et al. **Presse Med** 1997 May 3–10;26(15):727–32 (29 ref.) **(Fre)**
[Effect of clarithromycin on symptoms and mucociliary transport in patients with sino-bronchial syndrome] Nishi K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1392–1400 (Eng. Abstr.) **(Jpn)**
[Bronchial asthma as an inflammation and the use of inhaled steroid] Kaneko F, et al. **Nippon Rinsho** 1996 Nov; 54(11):2962–8 (18 ref.) (Eng. Abstr.) **(Jpn)**
[A patient with theophylline-quinolone interaction. Not all quinolones are equal (letter)] Cárdenas Rodríguez M, et al. **Aten Primaria** 1996 Sep 15;18(4):204–5 **(Spa)**

ENZYMOLOGY

Purification, characterization, and localization of a novel trypsin-like protease found in the human airway. Yasuoka S, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):300–8
Role of neutral endopeptidase in exercise-induced bronchoconstriction in asthmatic subjects. de Gouw HW, et al. **J Appl Physiol** 1996 Aug;81(2):673–8

EPIDEMIOLOGY

Veterinary practice and occupational health. An epidemiological study of several professional groups of Dutch veterinarians. I. General physical examination and prevalence of allergy, lung function disorders, and bronchial hyperreactivity. Elbers AR, et al. **Vet Q** 1996 Dec;18(4):127–31

ETIOLOGY

Diagnosis and management of left main stem bronchus compression. Goldman SA, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):461–5
Early and late airway complications after lung transplantation: incidence and management. Kshettry VR, et al. **Ann Thorac Surg** 1997 Jun;63(6):1576–83
Postpneumonectomy syndrome with an ipsilateral aortic arch after left pneumonectomy. Shamji FM, et al. **Ann Thorac Surg** 1996 Dec;62(6):1627–31
Implantation of Accuflex and Strecker stents in malignant bronchial stenoses by flexible bronchoscopy. Hauck RW, et al. **Chest** 1997 Jul;112(1):134–44
Kyphoscoliosis and bronchial torsion. Al-Kattan K, et al. **Chest** 1997 Apr;111(4):1134–7
Left main bronchus compression after aortic reconstruction for interruption of aortic arch. Sakai T, et al. **Eur J Cardiothorac Surg** 1995;9(11):667–9
Fatal ball-valve airway obstruction by an extensive blood clot during mechanical ventilation. Foucher P, et al. **Eur Respir J** 1996 Oct;9(10):2181–2
Pulmonary artery band migration producing endobronchial obstruction. Parry RL, et al. **J Pediatr Surg** 1997 Jan; 32(1):48–9
Management of laryngotracheobronchial sequelae and complications of relapsing polychondritis. Spraggs PD, et al. **Laryngoscope** 1997 Jul;107(7):936–41
Idiopathic bronchocentric granulomatosis in an adolescent. Millar JG, et al. **Pediatr Pulmonol** 1997 Jan;23(1):62–5
Bronchocentric granulomatosis in a nonasthmatic patient without etiologic agent. Ortiz-Saracho J, et al. **Respiration** 1996;63(2):120–2
Pleural fluid accumulation due to endometriosis [comment] Edmonds DK. **Thorax** 1996 Oct;51(10):1064. Comment on: Thorax 1996 Oct;51(10):1060–1. Comment on: Thorax 1996 Oct;51(10):1062–3.
Lymphangiomatosis presenting with bronchial cast formation. Nair LG, et al. **Thorax** 1996 Jul;51(7):765–6
[Endobronchial complications in lung and heart-lung transplantation] Bonnette P. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S49–56 (51 ref.) (Eng. Abstr.) **(Fre)**
[Severe bronchial stenosis with upstream bronchiectasis in an arc welder: causal relation or epiphenomenon?] Charpin D, et al. **Rev Mal Respir** 1997 Apr;14(2):137–9 (Eng. Abstr.) **(Fre)**
[A nidulans bronchial aspergillosis after treatment of low-grade lymphoma with fludarabine] Peyrade F, et al. **Rev Med Interne** 1997;18(3):235–6 (Eng. Abstr.) **(Fre)**
[Pulmonary sling or ring-sling complex? respiratory problems—diagnosis, therapy, prognosis] Horak E, et al. **Klin Padiatr** 1997 May–Jun;209(3):121–6 (Eng. Abstr.) **(Ger)**
[Bronchial involvement in sarcoidosis. Study with high resolution computerized tomography] Battaglia M, et al. **Radiol Med (Torino)** 1996 Sep;92(3):199–205 (Eng. Abstr.) **(Ita)**
[A case of bronchial stenosis due to postoperative inflammation treated with expandable metallic stent] Tabata S, et al. **Kyobu Geka** 1997 Jun;50(6):507–10 (Eng. Abstr.) **(Jpn)**
[A case of right intermediate bronchial stenosis due to an injury eighteen years before] Fuwa S, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):187–90 (Eng. Abstr.) **(Jpn)**
[The non-gas-exchange functions of the lungs and the role of their disorders in the development of bronchopulmonary complications] Skobel'skiĭ VB. **Anesteziol Reanimatol** 1996 May–Jun;(3):63–8 (126 ref.) **(Rus)**
[Sarcoidosis with bilateral pleural effusion and endobronchial involvement. Report of a case (letter)] Hernández Borge J, et al. **Arch Bronconeumol** 1996 Nov;32(9):493–4 **(Spa)**

IMMUNOLOGY

Bronchial and alveolar allergen-induced anaphylaxis and the stimulation of bronchial mucociliary clearance in ragweed-sensitized dogs. Yeates DB, et al. **Proc Assoc Am Physicians** 1997 Jul;109(4):440–52
[The immunomorphology of the mucosa of the bronchi and gastroduodenal zone in children with combined disease of the bronchi and gastrointestinal tract] Novikova AV, et al. **Arkh Patol** 1996 Nov–Dec;58(6):12–6 (Eng. Abstr.) **(Rus)**

METABOLISM

Expression and localization of thrombomodulin in preneoplastic bronchial lesions and in lung cancer. Tolnay E, et al. **Virchows Arch** 1997 Mar;430(3):209–12

MICROBIOLOGY

Intrabronchial pseudallescheriasis in an immunocompetent woman. Yano S, et al. **Clin Infect Dis** 1997 Apr;24(4):735–6
Cryptococcosis: an unusual cause of endobronchial obstruction. Mahida P, et al. **Eur Respir J** 1996 Apr; 9(4):837–9
Airway stenosis after tracheo-bronchial tuberculosis. Mariotta S, et al. **Respir Med** 1997 Feb;91(2):107–10
[Lemierre's syndrome: a non-forgotten disease (letter)] Pérez de Liano LA, et al. **Arch Bronconeumol** 1997 Feb; 33(2):107–8 **(Spa)**
[Broncholithiasis secondary to active Mycobacterium avium infection] Ruiz Martínez C, et al. **Arch Bronconeumol** 1996 Nov;32(9):486–8 (Eng. Abstr.) **(Spa)**
[Primary bronchial actinomycosis and foreign body] Mingrone H, et al. **Medicina (B Aires)** 1995;55(4):337–40 (5 ref.) (Eng. Abstr.) **(Spa)**

PATHOLOGY

High-resolution computed tomography of airway changes after induced bronchoconstriction and bronchodilation in asthmatic volunteers. Kee ST, et al. **Acad Radiol** 1996 May; 3(5):389–94
Selected mimics of malignancy in sputum and bronchoscopic cytology specimens. Naryshkin S, et al. **Diagn Cytopathol** 1995 Dec;13(5):443–7 (12 ref.)
Endobronchial lesions in a non-AIDS patient with disseminated Mycobacterium avium-intracellulare infection. Shih JY, et al. **Eur Respir J** 1997 Feb;10(2):497–9
Histopathological and immunohistochemical studies of acquired tracheobronchomalacia: an autopsy case report. Kano Y, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Sep–Oct;58(5):288–94
Tracheal lipoma obstructing the right main bronchus: report of a case. Tayama K, et al. **Surg Today** 1996;26(12):1017–9
Bronchoscopic and angiographic findings in tracheobronchial endometriosis [see comments] Kuo PH, et al. **Thorax** 1996 Oct;51(10):1060–1. Comment in: Thorax 1996 Oct;51(10):1064.
[Bronchial involvement in tuberculosis in children] Dubus JC. **Rev Mal Respir** 1996 Dec;13(6):609–10 (18 ref.) **(Fre)**
[Tracheobronchopathia osteoplastica with "rock garden" findings on bronchoscopy] Yokoyama T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr; 35(4):477–80 (Eng. Abstr.) **(Jpn)**
[Residual histoplasmosis of the lung and bronchopulmonary lymph nodes in autopsies carried out in Uberaba, MG] Adad SJ, et al. **Rev Soc Bras Med Trop** 1996 Sep–Oct; 29(5):491–6 (Eng. Abstr.) **(Por)**

PHYSIOPATHOLOGY

Bronchial vascular congestion and angiogenesis. Charan NB, et al. **Eur Respir J** 1997 May;10(5):1173–80 (68 ref.)
Early and late phase bronchoconstrictions in conscious sensitized guinea-pigs after macro- and microshock inhalation of allergen and associated airway accumulation of leukocytes. Lewis CA, et al. **Int J Immunopharmacol** 1996 Jun–Jul;18(6–7):415–22
Role of neutral endopeptidase in exercise-induced bronchoconstriction in asthmatic subjects. de Gouw HW, et al. **J Appl Physiol** 1996 Aug;81(2):673–8
Cigarette smoke-induced bronchoconstriction: causative agents and role of thromboxane receptors. Hong JL, et al. **J Appl Physiol** 1996 Nov;81(5):2053–9

RADIOGRAPHY

Tuberculosis of the trachea and main bronchi: CT findings in 17 patients. Kim Y, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):1051–6
Tuberculosis of the central airways: CT findings of active and fibrotic disease. Moon WK, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):649–53
Paediatric tracheobronchomalacia and its assessment by tracheobronchography. Little AF, et al. **Australas Radiol** 1996 Nov;40(4):398–403
Bronchial stenosis mimicking the scimitar syndrome: report of one case. Hsieh SC, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 May–Jun;38(3):232–4
Spiral computed tomography with 3-dimensional reconstruction for the diagnosis of tracheobronchial stenosis. Toki A, et al. **Pediatr Surg Int** 1997 Jul; 12(5–6):334–6
Evaluation of tracheobronchial disease with helical CT with multiplanar and three-dimensional reconstruction: correlation with bronchoscopy. Lee KS, et al. **Radiographics** 1997 May–Jun;17(3):555–67; discussion 568–70
[Bronchial tuberculosis in the elderly: apropos of 9 cases. Radioclinical, endoscopic and developmental aspects] Bour-Guichenez G, et al. **Rev Med Interne** 1997;18(1):26–9 (14 ref.) (Eng. Abstr.) **(Fre)**
[Pulmonary changes in high-resolution spiral CT in Williams-Campbell syndrome] Pauleit D, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):589–91 **(Ger)**
[Bronchial involvement in sarcoidosis. Study with high resolution computerized tomography] Battaglia M, et al. **Radiol Med (Torino)** 1996 Sep;92(3):199–205 (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Prestenotic bronchial radioaerosol deposition: a new ventilation scan sign of bronchial obstruction. Chung SK, et al. **J Nucl Med** 1997 Jan;38(1):71–4

REHABILITATION

[The problems of the rehabilitation and nondrug therapy of patients with bronchopulmonary diseases (based on materials from the 6th National Congress on Diseases of the Respiratory Organs)] Kliachkin LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):52–4 **(Rus)**

SURGERY

Tracheobronchial resection and reconstruction. Wood DE, et al. **Arch Surg** 1997 Aug;132(8):850–4; discussion 854–6
Surgical relief of tracheobronchial obstruction in infants and children. McCarthy JF, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1017–22
Vascular compression of the airway: indications for and results of surgical management. Erwin EA, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jun 20;40(2–3):155–62
Laser applications in the tracheobronchial tree. Rebeiz EE, et al. **Otolaryngol Clin North Am** 1996 Dec;29(6):987–1003 (52 ref.)
Treatment of bronchial stricture due to endobronchial tuberculosis. Watanabe Y, et al. **World J Surg** 1997 Jun; 21(5):480–7
[Treatment by CO2 broncho-laser for acquired tracheobronchial stenosis in children with bronchopulmonary dysplasia] Wagner I, et al. **Arch Pediatr** 1996 Nov;3(11):1079–83 (Eng. Abstr.) **(Fre)**
[The use of self-expandable stents in the treatment of

BRONCHIAL DISEASES

tracheobronchial diseases] Ambrogi C, et al. **Radiol Med (Torino)** 1996 Oct;92(4):448–52 **(Ita)**

[Surgical treatment for tracheobronchial tuberculosis] Kikuchi K, et al. **Kekkaku** 1997 Jan;72(1):43–8 (Eng. Abstr.) **(Jpn)**

[Chronic semi-invasive aspergillosis with broncho-pleural fistula treated with itraconazole and surgically] Nalepa P, et al. **Pneumonol Alergol Pol** 1996;64(7–8):472–7 (Eng. Abstr.) **(Pol)**

[The treatment of the tracheobronchomalacia in pediatric age] Delgado MD, et al. **Cir Pediatr** 1997 Apr;10(2):65–9 (Eng. Abstr.) **(Spa)**

THERAPY

Tracheal wire stent complications in malacia: implications of position and design. Hramiec JE, et al. **Ann Thorac Surg** 1997 Jan;63(1):209–12; discussion 213

Double stents for carcinoma of the esophagus invading the airway [letter; comment] Venuta F, et al. **Ann Thorac Surg** 1997 May;63(5):1515–6. Comment on: Ann Thorac Surg 1996 Sep;62(3):844–7.

Which stent to use for tracheobronchial stenoses: metallic or silicone? [letter; comment] Yim AP, et al. **Ann Thorac Surg** 1997 May;63(5):1512–3. Comment on: Ann Thorac Surg 1996 Sep;62(3):844–7.

Endoscopic treatment of malignant airway obstructions in 2,008 patients [published erratum of serious dosage error appears in Chest 1997 May;111(5):1476] Cavaliere S, et al. **Chest** 1996 Dec;110(6):1536–42

Implantation of Accuflex and Strecker stents in malignant bronchial stenoses by flexible bronchoscopy. Hauck RW, et al. **Chest** 1997 Jul;112(1):134–44

Tracheobronchial stents, stunts, and medical ethics revisited [editorial; comment] Unger M. **Chest** 1996 Nov; 110(5):1133–5. Comment on: Chest 1996 Nov;110(5):1155–60. Comment on: Chest 1996 Nov;110(5):1161–8.

Multiple fistulas and tracheobronchial stenoses require extensive stenting of the central airways and esophagus in squamous-cell carcinoma. Witt C, et al. **Endoscopy** 1996 May;28(4):381–5

Severe endobronchial obstruction in a girl with relapsing polychondritis: treatment with Nd YAG laser and endobronchial silicon stent. Sacco O, et al. **Eur Respir J** 1997 Feb;10(2):494–6

A shape memory airway stent for tracheobronchomalacia in children: an experimental and clinical study. Tsugawa C, et al. **J Pediatr Surg** 1997 Jan;32(1):50–3

Gianturco-Rösch Z stents in tracheobronchial stenoses. Petersen BD, et al. **J Vasc Interv Radiol** 1995 Nov–Dec; 6(6):925–31

Impacted broncholiths removed with the holmium: YAG laser. McCaughan JS Jr, et al. **Lasers Surg Med** 1996; 19(2):230–2

Introduction to different approaches to intrabronchial treatment. Bolliger CT. **Monaldi Arch Chest Dis** 1996 Aug; 51(4):316–24 (63 ref.)

Balloon dilation of congenital and acquired stenosis of the trachea and bronchi. Jaffe RB. **Radiology** 1997 May; 203(2):405–9

Behçet's syndrome with pulmonary involvement–combined therapy for endobronchial stenosis using neodym–YAG laser, balloon dilation and immunosuppression. Witt C, et al. **Respiration** 1996;63(3):195–8

[Stent implantation in severe tracheal and bronchial compression caused by aortic aneurysm] Ewert R, et al. **Pneumologie** 1997 Jan;51(1):19–23 (Eng. Abstr.) **(Ger)**

[Use of silicone stents for tracheobronchial stenosis due to tumors] Nomori H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):666–9 (Eng. Abstr.) **(Jpn)**

[Usefulness of Dumon-type endotracheal stent for left main bronchial obstruction caused by thoracic aortic aneurysm--a case report] Watanabe S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1776–80 (Eng. Abstr.) **(Jpn)**

[The use of endoprosthesis in treating tracheal and bronchial stenosis] Grubnik VV, et al. **Klin Khir** 1996;(11–12):38–41 (48 ref.) **(Rus)**

ULTRASONOGRAPHY

Congenital masses of the lung: changes in cross-sectional area during gestation. Winters WD, et al. **J Clin Ultrasound** 1997 Sep;25(7):372–7

VETERINARY

Use of a hand-held, metered-dose aerosol delivery device to administer pirbuterol acetate to horses with 'heaves' [comment] Derksen FJ, et al. **Equine Vet J** 1996 Jul; 28(4):306–10. Comment on: Equine Vet J 1996 Jul;28(4):250–2.

BRONCHIAL FISTULA

COMPLICATIONS

Massive air embolism with pulmonary arterio-bronchial fistula and ventricular septal defect. Simes D, et al. **Anaesth Intensive Care** 1997 Aug;25(4):420–2

Haemoptysis: a rare cause. Hynes JE, et al. **Br J Radiol** 1997 Mar;70:317–8

Aortobronchial and aortoesophageal fistulae as risk factors in surgery of descending thoracic aortic aneurysms. von Segesser LK, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):195–201

Chronic bronchopleural fistula in conservatively-treated calcified fibrothorax. Sulzer MA, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):229–31

Oesophagobronchial fistula through a midoesophageal diverticulum associated with fatal pulmonary bleeding. Svane S. **Scand Cardiovasc J** 1997;31(4):243–4

An unusual case of nephrobronchial and nephrocolonic fistula complicating xanthogranulomatous pyelonephritis. Borum ML. **Urology** 1997 Sep;50(3):443

[A case report--congenital esophago-bronchial fistula with esophageal diverticulum] Fujita S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):950–4 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Repeated pneumonia in the middle lobe caused by congenital bronchoesophageal fistula] Yoshizawa A, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1395–400 (Eng. Abstr.) **(Jpn)**

CONGENITAL

[Congenital broncho-esophageal fistula manifesting in adult age] Vodász P, et al. **Orv Hetil** 1997 Jan 5;138(1):19–21 (Eng. Abstr.) **(Hun)**

[Congenital esophago-bronchial fistula in the adult: a case report] Sode Y, et al. **Kyobu Geka** 1996 Oct;49(11):956–8 (Eng. Abstr.) **(Jpn)**

[Repeated pneumonia in the middle lobe caused by congenital bronchoesophageal fistula] Yoshizawa A, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1395–400 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Computer-assisted auscultation of a bronchopleurocutaneous fistula during general anesthesia. Manecke GR Jr, et al. **Anesth Analg** 1996 Oct;83(4):880–2

Video-assisted thoracic surgery in trauma patients [letter; comment] Villavicencio RT. **J Am Coll Surg** 1997 Aug; 185(2):197–8. Comment on: J Am Coll Surg 1997 Mar;184(3):316–24.

False left ventricular aneurysm with ventriculo-bronchial fistula and massive haemoptysis. Camero LG, et al. **Scand Cardiovasc J** 1997;31(2):117–9

ETIOLOGY

Postpneumonectomy stump fistula in a ventilated patient. De Groot M, et al. **Ann Thorac Surg** 1997 Feb;63(2):552–4

Bronchoesophageal fistula as a complication of cytomegalovirus esophagitis in AIDS. Chalasani N, et al. **Endoscopy** 1997 Jun;29(5):S28–9

Late esophageal fistula complicating early postpneumonectomy empyema. Magistrelli P, et al. **Eur J Cardiothorac Surg** 1996;10(9):803–5

Bronchobiliary fistula. A rare complication of chronic pancreatitis. Eck BD, et al. **Int J Pancreatol** 1996 Dec; 20(3):213–6

Crohn's disease associated with colo-bronchial fistula. Mera A, et al. **Intern Med** 1996 Dec;35(12):957–60

Endoscopic management of a bronchobiliary fistula. Khandelwal M, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):125–7

Postpneumonectomy bronchopleural fistula after sutured bronchial closure: incidence, risk factors, and management. Wright CD, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1367–71

Early bronchopleural fistula after lung resection. Van Schil PE, et al. **Monaldi Arch Chest Dis** 1996 Oct;51(5):421–3

Bronchoesophageal fistula secondary to aspiration of tongue adhesion button in a child with glossoptosis. Zunzunegui J, et al. **Pediatr Pulmonol** 1997 Feb;23(2):120–2

Adrenobronchial fistula complicating a neonatal adrenal abscess: treatment by percutaneous aspiration and antibiotics. Pointe HD, et al. **Pediatr Radiol** 1997 Feb; 27(2):184–5

Aortobronchial fistula secondary to chronic post-traumatic thoracic aneurysm. Fernández González AL, et al. **Tex Heart Inst J** 1996;23(2):174–7

Cysto-bilio-bronchial communication in a hydatid cyst of liver. Duseja A, et al. **Trop Gastroenterol** 1997 Jan–Mar; 18(1):30–1

Asymptomatic calculous pyelonephritis with cutaneous-renal-broncho-pleural fistula. Lautin R, et al. **Urology** 1996 Dec;48(6):928–9

[Spontaneous cutaneous cysto-hepato-bronchial fistula caused by a hydatid cyst. Apropos of a case (letter)] Harandou M, et al. **J Chir (Paris)** 1997 May;134(1):31–4 (Eng. Abstr.) **(Fre)**

[Analysis of risk factors for development of bronchopleural fistula after pneumonectomy for lung cancer] Haraguchi S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1835–9 (Eng. Abstr.) **(Jpn)**

[Esophago-bronchial fistula which developed after the insertion of an expandable metallic stent for corrosive esophageal stenosis] Tagawa T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1044–8 (Eng. Abstr.) **(Jpn)**

[Esophagobronchial fistula and empyema resulting from esophageal carcinoma] Hippo Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):583–7 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Tuberculous bronchoesophageal fistula in a patient infected with the HIV virus. Ravera M. **Endoscopy** 1997 Feb; 29(2):146

Internal fistula formation: an unusual complication of mycetoma. Fahal AH, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):550–2

PATHOLOGY

Bronchial-pulmonary artery fistula after unilateral lung transplantation: a case report. Kessler R, et al. **J Heart Lung Transplant** 1997 Jun;16(6):674–7

PHYSIOPATHOLOGY

Natural history of bronchopleural fistula after pneumonectomy: a review of 96 cases. Hollaus PH, et al. **Ann Thorac Surg** 1997 May;63(5):1391–6; discussion 1396–7

RADIOGRAPHY

CT appearance of esophagobronchial fistula: a clue to lung sequestration [letter] Gomendoza M, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):601–2

Case report. Aortic pseudoaneurysm with aortobronchial fistula: diagnosis with CT angiography. Ferretti GR, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):975–8 (8 ref.)

[Hepatic abscess with hepato-bronchial fistula] Blayac PM, et al. **J Radiol** 1997 Jun;78(6):469–71 **(Fre)**

RADIONUCLIDE IMAGING

Diagnosis and localization of bronchopulmonary air leaks using ventilation scintigraphy. Mark JB, et al. **Chest** 1997 Feb;111(2):286–9

"Double fistula" bronchopleural and pleurocutaneous during radioxenon study. Cronin EB, et al. **Clin Nucl Med** 1997 Apr;22(4):241–2

Congenital bronchobiliary fistula: diagnosis and postoperative surveillance with HIDA scan. Egrari S, et al. **J Pediatr Surg** 1996 Jun;31(6):785–6

RADIOTHERAPY

Laser treatment of endobronchial lesions. Dullye KK, et al. **Anesthesiology** 1997 Jun;86(6):1387–90

SURGERY

Technique for early bronchopleural fistula repair after lung resection [letter] Grunenwald D, et al. **Ann Thorac Surg** 1997 Apr;63(4):1214–5

Repair of aortobronchial fistula using extraanatomic grafts and hypothermic arrest. Lawrence WA, et al. **Ann Thorac Surg** 1997 Apr;63(4):1158–60

Successful repair of primary concomitant aortobronchial and aortoesophageal fistulas. Tkebuchava T, et al. **Ann Thorac Surg** 1997 Jun;63(6):1779–81

Management of microfistula following pulmonary resection. Gall SA Jr, et al. **Chest Surg Clin N Am** 1996 Aug; 6(3):543–65 (53 ref.)

Closure of a bronchopleural fistula by midsternal approach in three patients with previous aortocoronary bypass grafting. Barenbrug PJ, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):141–3

Permissive hypercapnia with high-frequency oscillatory ventilation and one-lung isolation for intraoperative management of lung resection in a patient with multiple bronchopleural fistulae. Tietjen CS, et al. **J Clin Anesth** 1997 Feb;9(1):69–73

In situ repair of aortobronchial, aortoesophageal, and aortoenteric fistulae with cryopreserved aortic homografts. Vogt PR, et al. **J Vasc Surg** 1997 Jul;26(1):11–7

Treatment of long-standing thoracostoma and bronchopleural fistula without pulmonary resection in high risk patients. Francel TJ, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1046–53

Video-assisted thoracoscopic closure of postpneumonectomy bronchopleural fistulas. Saw E, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):73–6

Open window thoracostomy in the treatment of esophageal or bronchopleural fistula with advanced mediastinitis and septic shock. Bauwens K, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):308–10

Unsuccessful omentopexy in thoracic surgery. Yokomise H, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):145–8

[The treatment of bronchopleural fistulae due to bronchial dehiscence by chest wall interventions. The authors' personal experience] Biraghi T, et al. **Minerva Chir** 1997 Apr;52(4):503–8 (Eng. Abstr.) **(Ita)**

[Congenital esophago-bronchial fistula in the adult: a case report] Sode Y, et al. **Kyobu Geka** 1996 Oct;49(11):956–8 (Eng. Abstr.) **(Jpn)**

[An experience with omentopexy for the repair of postoperative bronchopleural fistula] Takenouchi N, et al. **Kyobu Geka** 1997 Mar;50(3):243–6 (Eng. Abstr.) **(Jpn)**

[Respiratory management after closure of a bronchial-fistula with an omental pedicled gastric flap] Tanaka T, et al. **Masui** 1996 Dec;45(12):1516–8 (Eng. Abstr.) **(Jpn)**

[A case of empyema with a bronchopleural fistula treated by a pedicle muscle flap with the thick parietal pleura]

Yamamoto H, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun; 98(6):576–9 (Eng. Abstr.) **(Jpn)**

[Repair of the gastric tube–right main bronchus fistula after operation for esophageal cancer––treatment by transposition of pedicled pectoralis major muscle flap] Iwata T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1753–8 (Eng. Abstr.) **(Jpn)**

[A successful case of surgical treatment for the bronchogastric tube fistula originated in the reconstructed gastric tube after operation for esophageal cancer] Kojima M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May; 44(5):668–72 (Eng. Abstr.) **(Jpn)**

[A case report of a left bronchial stump fistula from which the wrapped omentum was removed, because of rupture of the anastomotic aneurysm of the descending thoracic aorta––functions of the wrapped omentum in the early phase and extended phase after surgery] Ozaki S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):687–90 (Eng. Abstr.) **(Jpn)**

THERAPY

Closure of a bronchopleural fistula using decalcified human spongiosa and a fibrin sealant. Baumann WR, et al. **Ann Thorac Surg** 1997 Jul;64(1):230–3

Lung ventilation and bronchopleural fistula [letter] McGuive GP. **Can J Anaesth** 1996 Dec;43(12):1275–6

Treatment of a ruptured anastomotic esophageal stricture following bougienage with a Dacron–covered nitinol stent. Heindel W, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec;19(6):431–4

The clinician's perspective on pneumothorax management. Baumann MH, et al. **Chest** 1997 Sep;112(3):822–8

Management of bronchopleural fistula with a variable–resistance valve and a single ventilator. Carvalho P, et al. **Chest** 1997 May;111(5):1452–4

Management of malignant esophagorespiratory fistula. Burt M. **Chest Surg Clin N Am** 1996 Nov;6(4):765–76 (50 ref.)

Upper gastrointestinal tract fistulae: endoscopic obliteration with fibrin sealant. Cellier C, et al. **Gastrointest Endosc** 1996 Dec;44(6):731–3

Silicone–covered Wallstent prototypes for palliation of malignant esophageal obstruction and digestive–respiratory fistulas. Nelson DB, et al. **Gastrointest Endosc** 1997 Jan; 45(1):31–7

Endovascular stent–graft exclusion of an aortobronchial fistula. Chuter TA, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):357–9

Life–threatening esophageal fistula: treatment with expandable metallic stents covered by biosynthetic skin. Sakai T, et al. **J Vasc Interv Radiol** 1996 Jul–Aug; 7(4):569–72

[Occlusion of an esophagobronchial fistula by implantation of a Montgomery esophageal and a dynamic tracheal stent after failure of conventional endoprosthesis] Alexiou C, et al. **Z Gastroenterol** 1997 Apr;35(4):277–83 (Eng. Abstr.) **(Ger)**

[Fibrin–glue in the treatment of a bronchocutaneous fistula] Martinazzoli A, et al. **Minerva Chir** 1997 Jan–Feb; 52(1–2):113–5 (Eng. Abstr.) **(Ita)**

[A case of malignant esophageal stenosis with esophagobronchial fistula treated with a covered wallstent] Iwasaki Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Dec;56(14):1071–2 (Eng. Abstr.) **(Jpn)**

BRONCHIAL HYPERREACTIVITY

see related
ASTHMA

Bronchial hyper–responsiveness in atopic dermatitis. Miyabayashi Y. **Acta Paediatr Jpn** 1997 Apr;39(2):205–9

Allergen–induced changes in airway responsiveness are related to baseline airway responsiveness. de Bruin–Weller MS, et al. **Allergy** 1996 Jun;51(6):401–6

Sequential evaluation of pulmonary function and bronchial hyperresponsiveness in patients with nasal polyposis: a prospective study. Lamblin C, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):99–103

Airway hyperresponsiveness to methacholine in subjects with spinal cord injury. Singas E, et al. **Chest** 1996 Oct; 110(4):911–5

The etiology and control of bronchial hyperresponsiveness in children. Spahn JD, et al. **Curr Opin Pediatr** 1996 Dec; 8(6):591–6 (41 ref.)

Bronchiolar aerosol deposition and clearance [editorial; comment] Agnew JE. **Eur Respir J** 1996 Jun;9(6):1118–22 (43 ref.). Comment on: Eur Respir J 1996 Jun;9(6):1123–9.

Peak flow variation in childhood asthma: relationship to symptoms, atopy, airways obstruction and hyperresponsiveness. Dutch CNSLD Study Group. Brand PL, et al. **Eur Respir J** 1997 Jun;10(6):1242–7

Serum house dust mite antibodies: predictor of increased bronchial responsiveness in adults of a community. Omenaas E, et al. **Eur Respir J** 1996 May;9(5):919–25

Effects of fluticasone propionate on methacholine dose–response curves in nonsmoking atopic asthmatics. Overbeek SE, et al. **Eur Respir J** 1996 Nov;9(11):2256–62

Infant respiratory symptoms in relation to mite allergen exposure. van Strien RT, et al. **Eur Respir J** 1996 May; 9(5):926–31

Physiological outcomes. Tepper R, et al. **Eur Respir J Suppl** 1996 Apr;21:12s–15s (44 ref.)

Animal models of bronchial hyperreactivity. Emala C, et al. **Monogr Allergy** 1996;33:35–52 (90 ref.)

Bronchial hyperresponsiveness: definition and terminology. Sterk PJ. **Pediatr Allergy Immunol** 1996;7(9 Suppl):7–9 (28 ref.)

Differences in the effect of allergen avoidance on bronchial hyperresponsiveness as measured by methacholine, adenosine 5'-monophosphate, and exercise in asthmatic children. Benckhuijsen J, et al. **Pediatr Pulmonol** 1996 Sep; 22(3):147–53

Bronchial hyperresponsiveness in lung transplant recipients: lack of correlation with airway inflammation. Liakakos P, et al. **Thorax** 1997 Jun;52(6):551–6

Smoking and bronchial responsiveness in nonatopic and atopic young adults. Spanish Group of the European Study of Asthma. Sunyer J, et al. **Thorax** 1997 Mar;52(3):235–8

[Study of spontaneous resolution of bronchial spasm after methacholine challenge. Comparison of patients with different degree of hyperreactivity] Mannino F, et al. **Recenti Prog Med** 1997 Mar;88(3):115–9 (Eng. Abstr.) **(Ita)**

[Effect of long–term treatment with an inhaled corticosteroid on bronchial hyper–responsiveness and clinical asthma in asthmatic subjects] Ikuta N, et al. **Arerugi** 1996 Dec; 45(12):1231–6 (Eng. Abstr.) **(Jpn)**

[Airway hyperresponsiveness and airway mucosal permeability] Ikeda H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:37–41 (Eng. Abstr.) **(Jpn)**

[Classification for bronchial asthma from the viewpoint of autonomic nerve function and airway hyperreactivity] Inoue H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:104–5 (Eng. Abstr.) **(Jpn)**

[Meanings of the clinical parameters of airway hyperresponsiveness] Munakata M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:42–7 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Histopathological changes and hyperresponsiveness in asthmatic airways: relationship to peak expiratory flow] Sugiyama K, et al. **Nippon Rinsho** 1996 Nov;54(11):2944–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Function testing of bronchial responsiveness] Tohda Y, et al. **Nippon Rinsho** 1996 Nov;54(11):2903–7 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Effects of reducing or stopping inhaled beclomethasone dipropionate on airway hyperresponsiveness in stable chronic asthma] Tsukino M, et al. **Nippon Rinsho** 1996 Nov; 54(11):2982–6 (Eng. Abstr.) **(Jpn)**

[Airway hyperreactivity and respiratory allergy in children] **Rev Alerg Mex** 1996;43 Spec No:22–37 (73 ref.) **(Spa)**

BLOOD

Allergen–induced increase in bone marrow progenitors in airway hyperresponsive dogs: regulation by a serum hemopoietic factor. Inman MD, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):305–11

[The study of the relationship between serum eosinophil cationic protein and bronchial responsiveness in the patients with bronchial asthma] Endo S, et al. **Arerugi** 1996 Jan; 45(1):11–16 (Eng. Abstr.) **(Jpn)**

CHEMICALLY INDUCED

Reactive airways dysfunction syndrome induced by exposure to a mixture containing isocyanate: functional and histopathologic behaviour. Lemière C, et al. **Allergy** 1996 Apr;51(4):262–5

Role for neurokinin–2 receptor in interleukin–5–induced airway hyperresponsiveness but not eosinophilia in guinea pigs. Kraneveld AD, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):367–74

Nitrogen dioxide exposure enhances asthmatic reaction to inhaled allergen in subjects with asthma. Strand V, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):881–7

Bronchial responsiveness to ultrasonic "fog" in occupational asthma due to low molecular weight chemicals. Dellabianca A, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):378–84

Human bronchial smooth muscle responsiveness after in vitro exposure to oxidizing pollutants. Marthan R, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):245–9

The effect of regular salbutamol on lung function and bronchial hyperresponsiveness in normal subjects and nonasthmatic atopic subjects with allergic rhinitis. Boothman–Burrell D, et al. **Chest** 1997 Jul;112(1):12–8

Steric aspects of formoterol and terbutaline: is there an adverse effect of the distomer on airway smooth muscle function? Källström BL, et al. **Chirality** 1996;8(8):567–73

Sensory neuropeptides are not directly involved in bronchial hyperresponsiveness induced by interleukin–8 in guinea–pigs in vivo. Fujimura M, et al. **Clin Exp Allergy** 1996 Mar;26(3):357–62

The effect of anti–IL–4 monoclonal antibody, rapamycin and interferon–gamma on airway hyperreactivity to acetylcholine in mice. Nagai H, et al. **Clin Exp Allergy** 1997 Feb;27(2):218–24

Airway hyperresponsiveness to acetylcholine induced by aerosolized arachidonic acid metabolites in guinea–pigs. Sato T, et al. **Clin Exp Allergy** 1996 Aug;26(8):957–63

Effects of RS–albuterol on the development of antigen–mediated airway hyperreactivity in guinea pigs. Jafarian A, et al. **Clin Rev Allergy Immunol** 1996 Spring; 14(1):91–100

Effects of albuterol enantiomers on in vitro bronchial reactivity. Johansson F, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):57–64

Anomalous effects of albuterol and other sympathomimetics in the guinea pig. Morley J. **Clin Rev Allergy Immunol** 1996 Spring;14(1):65–89 (57 ref.)

Airway subsensitivity with long–acting beta 2–agonists. Is there cause for concern? Lipworth BJ. **Drug Saf** 1997 May; 16(5):295–308 (60 ref.)

Metal and sulfate composition of residual oil fly ash determines airway hyperreactivity and lung injury in rats. Gavett SH, et al. **Environ Res** 1997 Feb;72(2):162–72

Acute exposure to realistic acid fog: effects on respiratory function and airway responsiveness in asthmatics. Leduc D, et al. **Environ Res** 1995 Nov;71(2):89–98

The effects on asthmatics of exposure to a conventional water–based and a volatile organic compound–free paint. Beach JR, et al. **Eur Respir J** 1997 Mar;10(3):563–6

Reactive airways dysfunction syndrome (RADS) following exposure to toxic gases of a swine confinement building. Cormier Y, et al. **Eur Respir J** 1996 May;9(5):1090–1

Female gender as a determinant of cough threshold to inhaled capsaicin. Fujimura M, et al. **Eur Respir J** 1996 Aug; 9(8):1624–6

Reactive airways dysfunction syndrome due to chlorine: sequential bronchial biopsies and functional assessment. Lemière C, et al. **Eur Respir J** 1997 Jan;10(1):241–4

Late consequences of accidental exposure to inhaled irritants: RADS and the Bhopal disaster [editorial; comment] Nemery B. **Eur Respir J** 1996 Oct;9(10):1973–6. Comment on: Eur Respir J 1996 Oct;9(10):1977–82.

Effect of nitrogen dioxide and other combustion products on asthmatic subjects in a home–like environment. Salome CM, et al. **Eur Respir J** 1996 May;9(5):910–8

Immediate and delayed effects of nitrogen dioxide exposure at an ambient level on bronchial responsiveness to histamine in subjects with asthma. Strand V, et al. **Eur Respir J** 1996 Apr;9(4):733–40

Sephadex induced bronchial hyperreactivity in the rat: hematology, histology, histochemistry and immunohistology of the lung. Kleemann R, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):233–41

Diurnal change of bronchial caliber and airway responsiveness in asthmatics during long–term treatment with long–acting beta 2–agonist salmeterol. Dottorini ML, et al. **Int J Clin Pharmacol Ther** 1996 Oct;34(10):438–43

Antibody to very late activation antigen 4 prevents interleukin–5–induced airway hyperresponsiveness and eosinophil infiltration in the airways of guinea pigs. Kraneveld AD, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):242–50

Role of tachykinins in ozone–induced airway hyperresponsiveness to cigarette smoke in guinea pigs. Wu ZX, et al. **J Appl Physiol** 1997 Sep;83(3):958–65

Involvement of thromboxane A2 in bronchial hyperresponsiveness of asthma. Kanazawa Asthma Research Group. Fujimura M, et al. **Pulm Pharmacol** 1995 Dec;8(6):251–7

The role of cyclooxygenase and 5–lipoxygenase metabolites in potentiated endothelin–1–evoked contractions in bovine bronchi. Nally JE, et al. **Pulm Pharmacol** 1996 Aug; 9(4):211–7

Hexamethylene diisocyanate induction of transient airway hyperresponsiveness in guinea pigs. Marek W, et al. **Respiration** 1997;64(1):35–44

A thirteen–year follow–up of respiratory effects of acute exposure to sulfur dioxide. Piirilä PL, et al. **Scand J Work Environ Health** 1996 Jun;22(3):191–6

Reactive airways dysfunction syndrome: occurrence after exposure to a refractory ceramic fiber–phosphoric acid binder mixture. Forrester BG. **South Med J** 1997 Apr; 90(4):447–50

Bronchial responsiveness and inflammation in guinea–pigs exposed to toluene diisocyanate: a study on single and repeated exposure. Gagnaire F, et al. **Toxicology** 1996 Dec 2;114(2):91–100

Role of tachykinins and neutral endopeptidase in toluene diisocyanate–induced bronchial hyperresponsiveness in guinea pigs. Gagnaire F, et al. **Toxicology** 1997 Jan 15; 116(1–3):17–26

[Absence of association of specific and nonspecific bronchial hyperreactivity in occupational asthma caused by platinum salts] Merget R, et al. **Pneumologie** 1997 Apr;51(4):345–50 (Eng. Abstr.) **(Ger)**

[Occupational asthma caused by cefmetazole and 7–aminocephalosporanic acid: description of a clinical case] Fracchia G, et al. **G Ital Med Lav Ergon** 1996 Jan–May; 18(1–3):3–5 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

A systematic evaluation of mechanisms in chronic cough. Carney IK, et al. **Am J Respir Crit Care Med** 1997 Jul; 156(1):211–6

Effects of experimental rhinovirus 16 infection on airway hyperresponsiveness to bradykinin in asthmatic subjects in vivo. Grünberg K, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):833–8

Eosinophils, respiratory viruses and allergic asthma. Handzel ZT. **Isr J Med Sci** 1997 Jan;33(1):66–70 (40 ref.)

Relationship between bronchial hyperreactivity and symptoms of cardiac asthma in patients with non–valvular left ventricular failure. Nishimura Y, et al. **Jpn Circ J** 1996

Dec;60(12):933–9
Risk factors for development of asthma in children and adolescents: findings from a longitudinal population study. Ulrik CS, et al. **Respir Med** 1996 Nov;90(10):623–30
Airways reactivity, atopy and bronchoalveolar lavage in male smokers with airflow obstruction. García-García JM, et al. **Respiration** 1996;63(4):199–204
Bronchial hyperresponsiveness as a predictor of wheezing in a follow-up study of healthy men. Ségala C, et al. **Respiration** 1996;63(6):352–7

DIAGNOSIS

Eosinophil activity markers in peripheral blood have high predictive value for bronchial hyperreactivity in patients with suspected mild asthma. Roquet A, et al. **Allergy** 1996 Jul;51(7):482–8
Asymptomatic airway hyperresponsiveness: a three-year follow-up. Laprise C, et al.
Am J Respir Crit Care Med 1997 Aug;156(2 Pt 1):403–9
Inflammatory markers in childhood asthma. Kristjánsson S, et al. **Ann Med** 1996 Oct;28(5):395–9 (43 ref.)
Relationship of non-specific airway hyperresponsiveness (AHR) to measures of peak expiratory flow (PEF) variability. Kolbe J, et al. **Aust N Z J Med** 1996 Feb; 26(1):59–65
Testing bronchial hyper-responsiveness: provocation or peak expiratory flow variability? den Otter JJ, et al.
Br J Gen Pract 1997 Aug;47(421):487–92
Bronchial hyperresponsiveness and bronchial provocation tests. Myers JD, et al. **Br J Hosp Med** 1996 Feb 7–20; 55(3):107–10 (19 ref.)
Methacholine challenge testing: safety of low starting FEV1. Asthma Clinical Research Network (ACRN). Martin RJ, et al. **Chest** 1997 Jul;112(1):53–6
Comparison between hypertonic and isotonic saline-induced sputum in the evaluation of airway inflammation in subjects with moderate asthma. Bacci E, et al. **Clin Exp Allergy** 1996 Dec;26(12):1395–400
Comparison of the ISAAC video questionnaire (AVQ3.0) with the ISAAC written questionnaire for estimating asthma associated with bronchial hyperreactivity. Lai CK, et al. **Clin Exp Allergy** 1997 May;27(5):540–5
Perception of airway narrowing in a general population sample. Salome CM, et al. **Eur Respir J** 1997 May; 10(5):1052–8
Airway and cough responsiveness and exhaled nitric oxide in non-smoking patients with stable chronic heart failure. Chua TP, et al. **Heart** 1996 Aug;76(2):144–9
Bronchial hyperresponsiveness following acute severe asthma. Rabbat A, et al. **Intensive Care Med** 1996 Jun; 22(6):530–8
Quantitative bronchial challenge tests with wheat flour dust administered by spinhaler: comparison with aqueous wheat flour extract inhalation. Merget R, et al.
J Allergy Clin Immunol 1997 Aug;100(2):199–207
Bronchoprovocation with methacholine in children under two years old: a follow-up study. Guirau LM, et al.
J Investig Allergol Clin Immunol 1997 Mar-Apr;7(2):110–4
Assessment of bronchial hyperresponsiveness in preschool children: methodological issues. Klug B, et al.
Pediatr Allergy Immunol 1996;7(9 Suppl):25–7 (13 ref.)
Measurement of bronchial responsiveness by non-pharmacological challenges: methodological issues. Zach MS. **Pediatr Allergy Immunol** 1996;7(9 Suppl):28–33 (36 ref.)
Effect of age, height, and prechallenge respiratory resistance on bronchial hyperresponsiveness in childhood asthma using the forced oscillation technique. Mochizuki H, et al. **Pediatr Pulmonol** 1996 Jul;22(1):1–6
Maximal forced expiratory maneuver to measure airway obstruction in anesthetized guinea pigs. Lin CC, et al. **Respiration** 1997;64(4):257–62
[Recommendations for implementing bronchial provocation tests with pharmacologic substances. German Society of Pneumology--Scientific "Bronchial Provocation Tests" Study Group (see comments)] Klein G. **Med Klin** 1997 Aug 15;92(8):458–63. Comment in: Med Klin 1997 Aug 15;92(8):492–3. **(Ger)**
[Is the bronchial provocation test a provocation? (editorial; comment)] Nolte D. **Med Klin** 1997 Aug 15;92(8):492–3. Comment on: Med Klin 1997 Aug 15;92(8):458–63. **(Ger)**
[Chronic persistent cough in general practice: diagnosis and therapy in 329 patients over the course of 2 years] Kardos P, et al. **Pneumologie** 1996 Jun;50(6):437–41 (Eng. Abstr.) **(Ger)**
[Bronchial hyperreactivity to the inhalation of hypo- and hyperosmolar aerosols and its correction by halotherapy] Gorbenko PP, et al. **Ter Arkh** 1996;68(8):24–8 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Anti-inflammatory drugs do not alleviate bronchial hyperreactivity in Sjögren's syndrome. Stålenheim G, et al. **Allergy** 1997 Apr;52(4):423–7
Airway reactivity induced reversible voice dysfunction in singers. Cohn JR, et al. **Allergy Asthma Proc** 1997 Jan-Feb; 18(1):1–5
Effect of Apafant on bronchial hyperresponsiveness and down-regulation of beta-adrenoceptors induced by endotoxin in guinea pigs. Sugimoto Y, et al.
Arzneimittelforschung 1997 Jul;47(7):837–41
The effect of inhaled thiorphan on allergen-induced airway responses in asthmatic subjects. Diamant Z, et al.
Clin Exp Allergy 1996 May;26(5):525–32
Inhibition of airways inflammation by dexamethasone is followed by reduced bronchial hyperreactivity in BP2 mice. Eum SY, et al. **Clin Exp Allergy** 1996 Aug; 26(8):971–9
Studies of the effects of inhaled magnesium on airway reactivity to histamine and adenosine monophosphate in asthmatic subjects. Hill J, et al. **Clin Exp Allergy** 1997 May; 27(5):546–51
Effect of roxithromycin on airway responsiveness in children with bronchiectasis: a double-blind, placebo-controlled study [see comments] Koh YY, et al. **Eur Respir J** 1997 May;10(5):994–9. Comment in: Eur Respir J 1997 May;10(5):971–2.
Effect of inhaled beclomethasone dipropionate on isocapnic hyperventilation with cold air in asthmatics, measured with forced oscillation technique. Pennings HJ, et al.
Eur Respir J 1997 Mar;10(3):665–71
The relationship between airway hyperreactivity (AHR) and sodium, potassium adenosine triphosphatase (Na^+,K^+ ATPase) enzyme inhibition. Gentile DA, et al.
J Allergy Clin Immunol 1997 Mar;99(3):367–73
Ineffectiveness of a four week treatment with the thromboxane synthetase inhibitor, imidazole salycilate, in reducing airway hyperresponsiveness to methacholine in asthmatics. Peccini F, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):130–7
KATP channel openers reverse immune complex-induced airways hyperreactivity independently of smooth muscle relaxation. Buchheit KH, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 Aug-Sep; 354(3):355–61
Impact of treatment on bronchial hyperresponsiveness. de Jongste JC. **Pediatr Allergy Immunol** 1996;7(9 Suppl):18–24 (50 ref.)
Delivering nebulized medication to infants and toddlers. Seidel J. **Pediatr Rev** 1996 Sep;17(9):327
Effect of TYB-2285 on antigen-induced airway responses in sheep. Abraham WM, et al. **Pulm Pharmacol** 1996 Feb; 9(1):49–58
Attenuation of airway hyperresponsiveness during acute viral infection using the 21-aminosteroid U-83836E in rats. Sorkness R, et al. **Pulm Pharmacol** 1996 Aug;9(4):219–22
Effect of regular inhaled salbutamol on airway responsiveness and airway inflammation in rhinitic non-asthmatic subjects. Evans DW, et al. **Thorax** 1997 Feb;52(2):136–42
[Anti-inflammatory drugs for the treatment of bronchial hyperresponsiveness] Sano Y.
Nippon Kyobu Shikkan Gakkai Zasshi 1996 Dec;34 Suppl:48–53 (Eng. Abstr.) **(Jpn)**
[Effects of becotide and becodisk glucocorticoid drugs on bronchial reactivity in patients with bronchial asthma] Pol'ner SA. **Klin Med (Mosk)** 1997;75(6):44–6 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Eosinophil peroxidase: a new serum marker of atopy and bronchial hyper-responsiveness. Bjornsson E, et al.
Respir Med 1996 Jan;90(1):39–46

EPIDEMIOLOGY

Prevalence of asthma-related symptoms and bronchial responsiveness to exercise in children aged 13–14 yrs in Barcelona, Spain. Busquets RM, et al. **Eur Respir J** 1996 Oct;9(10):2094–8
Prevalence of respiratory symptoms, bronchial hyperresponsiveness and atopy among adults: west and east Germany. Nowak D, et al. **Eur Respir J** 1996 Dec; 9(12):2541–52
Airway reactivity in welders: a controlled prospective cohort study. Beckett WS, et al. **J Occup Environ Med** 1996 Dec; 38(12):1229–38
Bronchial hyperresponsiveness from infancy to adulthood: epidemiological aspects. Landau LI.
Pediatr Allergy Immunol 1996;7(9 Suppl):39–41 (27 ref.)
Prevalence of bronchial hyperreactivity as determined by several methods among Estonian schoolchildren. Vasar M, et al. **Pediatr Allergy Immunol** 1996 Aug;7(3):141–6
(A)symptomatic bronchial hyper-responsiveness and asthma. Jansen DF, et al. **Respir Med** 1997 Mar;91(3):121–34 (117 ref.)

ETIOLOGY

Bronchial hyperreactivity and immunoglobulin E in Behçet's disease. Kalpaklioğlu AF, et al.
Allergol Immunopathol (Madr) 1997 Jul-Aug;25(4):182–8
Anti-inflammatory drugs do not alleviate bronchial hyperreactivity in Sjögren's syndrome. Stålenheim G, et al. **Allergy** 1997 Apr;52(4):423–7
Atopy and nonspecific bronchial responsiveness. A population-based assessment. Spanish Group of the European Community Respiratory Health Survey. Soriano JB, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1636–40
Parental and neonatal risk factors for atopy, airway hyper-responsiveness, and asthma. Sears MR, et al.
Arch Dis Child 1996 Nov;75(5):392–8
Nonspecific airway hyperresponsiveness in HIV disease. Pulmonary Complications of HIV Infection Study Group. Wallace JM, et al. **Chest** 1997 Jan;111(1):121–7
Induction of hyperresponsiveness in human airway tissue by neutrophils--mechanism of action. Anticevich SZ, et al. **Clin Exp Allergy** 1996 May;26(5):549–56
A comparison of the effects of oral cetirizine and inhaled beclomethasone on early and late asthmatic responses to allergen and the associated increase in airways hyperresponsiveness. Bentley AM, et al.
Clin Exp Allergy 1996 Aug;26(8):909–17
Heterogeneity of airway hyperresponsiveness. Crowther SD, et al. **Clin Exp Allergy** 1997 Jun;27(6):606–16 (103 ref.)
Bronchial hyperresponsiveness and cytokines in virus-induced asthma exacerbations [editorial; comment] Johnston SL. **Clin Exp Allergy** 1997 Jan;27(1):7–9. Comment on: Clin Exp Allergy 1997 Jan;27(1):36–45.
Response of nose and bronchi to exercise in asthma and rhinitis: similarities and differences. Picado C.
Clin Exp Allergy 1996 May;26 Suppl 3:36–8 (9 ref.)
Bronchial hyperreactivity, increased endotoxin lethality and melanocytic tumorigenesis in transgenic mice overexpressing platelet-activating factor receptor. Ishii S, et al. **EMBO J** 1997 Jan 2;16(1):133–42
Effects of repeated swine building exposures on normal naive subjects. Cormier Y, et al. **Eur Respir J** 1997 Jul; 10(7):1516–22
Asthmatic bronchial hyperresponsiveness varies with ambient levels of summertime air pollution. Taggart SC, et al.
Eur Respir J 1996 Jun;9(6):1146–54
Increased bronchial responsiveness to exercise as a risk factor for symptomatic asthma: findings from a longitudinal population study of children and adolescents. Ulrik CS, et al. **Eur Respir J** 1996 Aug;9(8):1696–700
Interleukin-5 and eosinophils induce airway damage and bronchial hyperreactivity during allergic airway inflammation in BALB/c mice. Hogan SP, et al.
Immunol Cell Biol 1997 Jun;75(3):284–8
Kinetics of eosinophilia and eosinophil activation in the development of non-allergic bronchial hyperresponsiveness in guinea pigs injected with Sephadex beads. Maghni K, et al. **Inflammation** 1996 Oct;20(5):523–35
Interaction of ozone and allergen challenges on bronchial responsiveness and inflammation in sensitised guinea pigs. Sun J, et al. **Int Arch Allergy Immunol** 1997 Feb; 112(2):191–5
Aeroallergen-induced eosinophilic inflammation, lung damage, and airways hyperreactivity in mice can occur independently of IL-4 and allergen-specific immunoglobulins. Hogan SP, et al. **J Clin Invest** 1997 Mar 15;99(6):1329–39
Reactive airways dysfunction syndrome in a nurse exposed to pentamidine [letter; comment] Stanbury M, et al.
J Occup Environ Med 1996 Apr;38(4):330–1. Comment on: J Occup Environ Med 1995 Feb;37(2):145–50.
Airway hyperreactivity in children with sickle cell disease. Leong MA, et al. **J Pediatr** 1997 Aug;131(2):278–83
Nonspecific bronchial hyperresponsiveness and development of asthma in children with hay fever. Añíbarro B, et al.
Pediatr Allergy Immunol 1995 Nov;6(4):200–3
Impact of allergen exposure on bronchial hyperresponsiveness. Dreborg S.
Pediatr Allergy Immunol 1996;7(9 Suppl):14–7 (27 ref.)
Impact of viral infection on bronchial hyperresponsiveness. Wennergren G. **Pediatr Allergy Immunol** 1996;7(9 Suppl):10–3 (30 ref.)
Smooth muscle as a direct or indirect target accounting for bronchopulmonary hyperresponsiveness. Wills-Karp M.
Res Immunol 1997 Jan;148(1):59–72 (125 ref.)
Airway inflammation despite loss of bronchial hyper-responsiveness after multiple ozone exposures. Sun J, et al. **Respir Med** 1997 Jan;91(1):47–55
Serology of chlamydia in relation to asthma and bronchial hyperresponsiveness. Bjornsson E, et al.
Scand J Infect Dis 1996;28(1):63–9
Modulation of T-helper cell populations: potential mechanisms of respiratory hypersensitivity and immune suppression. Selgrade MK, et al.
Toxicol Appl Pharmacol 1997 Jul;145(1):218–29 (102 ref.)
[Effect of n-CPAP therapy on outcome of cold provocation] Thalhofer S, et al. **Pneumologie** 1997 Aug;51 Suppl 3:773–5 (Eng. Abstr.) **(Ger)**
[Bronchial hyperreactivity and nCPAP therapy] Wenzel G, et al. **Pneumologie** 1997 Aug;51 Suppl 3:770–2 (Eng. Abstr.) **(Ger)**
[Inhibitory non-adrenergic, non-cholinergic nerves and nitric oxide] Aizawa H, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:174–8 (Eng. Abstr.) **(Jpn)**

GENETICS

Susceptibility loci regulating total serum IgE levels, bronchial hyperresponsiveness, and clinical asthma map to chromosome 5q. Amelung PJ, et al. **Chest** 1997 Jun;111(6 Suppl):77S–78S
A new variant of the beta subunit of the high-affinity receptor for immunoglobulin E (Fc epsilon RI-beta E237G): associations with measures of atopy and bronchial hyper-responsiveness. Hill MR, et al. **Hum Mol Genet** 1996 Jul;5(7):959–62
Genetics of airway responsiveness in the inbred mouse. De Sanctis GT, et al. **Res Immunol** 1997 Jan;148(1):73–9; discussion 79–83 (17 ref.)

Atopy, airway responsiveness, and genes. Boguniewicz M, et al. **Thorax** 1996 Aug;51 Suppl 2:S55-9 (28 ref.)

IMMUNOLOGY

Development of airway hyperresponsiveness is dependent on interferon-gamma and independent of eosinophil infiltration. Hessel EM, et al.
Am J Respir Cell Mol Biol 1997 Mar;16(3):325-34

Cytokine expression in the presence or absence of late airway responses after antigen challenge of sensitized rats. Renzi PM, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):367-73

Inhibition of antigen-induced acute bronchoconstriction, airway hyperresponsiveness, and mast cell degranulation by a nonanticoagulant heparin: comparison with a low molecular weight heparin. Ahmed T, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):1848-55

Mast cell numbers are increased in the smooth muscle of human sensitized isolated bronchi. Ammit AJ, et al.
Am J Respir Crit Care Med 1997 Mar;155(3):1123-9

Specific IgE-dependent sensitization, atopy, and bronchial hyperresponsiveness in apprentices starting exposure to protein-derived agents. Gautrin D, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):1841-7

Role of cytokine-induced neutrophil chemoattractant (CINC) in ozone-induced airway inflammation and hyperresponsiveness. Koto H, et al.
Am J Respir Crit Care Med 1997 Jul;156(1):234-9

Sensitization to cat allergen is associated with asthma in older men and predicts new-onset airway hyperresponsiveness. The Normative Aging Study. Litonjua AA, et al.
Am J Respir Crit Care Med 1997 Jul;156(1):23-7

Allergen challenge of passively sensitized human bronchi alters M2 and beta2 receptor function. Song P, et al.
Am J Respir Crit Care Med 1997 Apr;155(4):1230-4

Role of IgE in hyperresponsiveness induced by passive sensitization of human airways. Watson N, et al.
Am J Respir Crit Care Med 1997 Mar;155(3):839-44

Role of eosinophil mobilization and activation in experimental airway inflammation and bronchopulmonary hyperreactivity. Pretolani M, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:72-81 (49 ref.)

Asthma, bronchial hyperreactivity and mediator release in children with birch pollinosis. ECP and EPX levels are not related to bronchial hyperreactivity. Ferdousi HA, et al. **Clin Exp Allergy** 1997 May;27(5):530-9

Role of mast cells, eosinophils and IL-5 in the development of airway hyperresponsiveness in sensitized mice [see comments] Nagai H, et al. **Clin Exp Allergy** 1996 Jun; 26(6):642-7. Comment in: Clin Exp Allergy 1996 Jun;26(6):618-20.

The effect of anti-IL-4 monoclonal antibody, rapamycin and interferon-gamma on airway hyperreactivity to acetylcholine in mice. Nagai H, et al. **Clin Exp Allergy** 1997 Feb;27(2):218-24

Comparison of basophil histamine release, eosinophil cationic protein and non-specific airway responsiveness between mite-sensitive asthmatic and non-asthmatic children and non-allergic controls. Takeda K, et al.
Clin Exp Allergy 1996 Aug;26(8):918-25

Bronchial mucoid impaction due to the monokaryotic mycelium of Schizophyllum commune. Amitani R, et al. **Clin Infect Dis** 1996 Jan;22(1):146-8

Eosinophil accumulation and airway hyperreactivity [letter; comment] Chapman ID, et al. **Eur Respir J** 1996 Jun; 9(6):1331-3. Comment on: Eur Respir J 1995 Dec;8(12):2104-13.

Immunological outcome measures. Björkstén B.
Eur Respir J Suppl 1996 Apr;21:22s-27s (26 ref.)

Ozone alters T-helper cell mediated bronchial hyperreactivity and resistance to bacterial infection. Steerenberg PA, et al. **Exp Toxicol Pathol** 1996 Nov; 48(6):497-9 (12 ref.)

Adoptive transfer of allergen-specific CD4+ T cells induces airway inflammation and hyperresponsiveness in brown-Norway rats. Haczku A, et al. **Immunology** 1997 Jun;91(2):176-85

Circulating intracellular adhesion molecule-1 concentrations following bronchial provocation in atopic asthma. Gonokami Y, et al. **Int Arch Allergy Immunol** 1997 Apr; 112(4):386-91

Interaction of ozone and allergen challenges on bronchial responsiveness and inflammation in sensitised guinea pigs. Sun J, et al. **Int Arch Allergy Immunol** 1997 Feb; 112(2):191-5

Effect of nedocromil sodium pretreatment on the immediate and late responses of the airway to segmental antigen challenge. Calhoun WJ, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S46-50; discussion S64-6

Failure of aged rats to accumulate eosinophils in allergic inflammation of the airway. Yagi T, et al.
J Allergy Clin Immunol 1997 Jan;99(1 Pt 1):38-47

Why are nasal and bronchial symptoms mostly perennial in patients with monosensitization to Olea europaea pollen allergens? Liccardi G, et al.
J Investig Allergol Clin Immunol 1996 Nov-Dec;6(6):371-7

Bronchial and bronchoalveolar inflammation in single early and dual responders after allergen inhalation challenge. Silvestri M, et al. **Lung** 1997;175(4):277-85

Allergen-induced bronchial hyperreactivity and eosinophilic inflammation occur in the absence of IgE in a mouse model of asthma [see comments] Mehlhop PD, et al.
Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1344-9. Comment in: Proc Natl Acad Sci U S A 1997 Mar 18;94(6):2101-2.

Ovalbumin challenge following immunization elicits recruitment of eosinophils but not bronchial hyperresponsiveness in guinea-pigs: time course and relationship to eosinophil activation status. Banner KH, et al. **Pulm Pharmacol** 1996 Jun;9(3):179-87

Serology of respiratory viruses in relation to asthma and bronchial hyperresponsiveness. Björnsson E, et al.
Ups J Med Sci 1996;101(2):159-68

METABOLISM

Participation of leukotriene D4 and tumor necrosis factor on lipopolysaccharide-induced airway hyperresponsiveness in guinea pigs. Uno T, et al. **Biol Pharm Bull** 1997 Apr; 20(4):332-7

Involvement of tachykinins in endotoxin-induced airway hyperresponsiveness. Loeffler BS, et al. **Lung** 1997; 175(4):253-63

Role of superoxide anions in airway hyperresponsiveness induced by cigarette smoke in conscious guinea pigs. Nishikawa M, et al. **Lung** 1996;174(5):279-89

[Correlation of ECP levels in sputum and blood with parameters of airflow obstruction and hyperreactivity in patients with irreversible bronchial obstruction due to chronic bronchitis] Chazan R, et al.
Pol Arch Med Wewn 1995 Oct;94(4):300-6 (Eng. Abstr.) **(Pol)**

[Coupling of calcium homeostasis and lipid peroxidation in mechanisms of bronchial hyperreactivity in patients with bronchial asthma] Amatuni VG, et al. **Vopr Med Khim** 1996 Oct-Dec;42(4):314-8 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Reactive airways dysfunction syndrome induced by exposure to a mixture containing isocyanate: functional and histopathologic behaviour. Lemière C, et al. **Allergy** 1996 Apr;51(4):262-5

Allergen-induced increase in bone marrow progenitors in airway hyperresponsive dogs: regulation by a serum hemopoietic factor. Inman MD, et al.
Am J Respir Cell Mol Biol 1996 Sep;15(3):305-11

Bronchial subepithelial fibrosis correlates with airway responsiveness to methacholine. Boulet LP, et al. **Chest** 1997 Jul;112(1):45-52

Induction of hyperresponsiveness in human airway tissue by neutrophils--mechanism of action. Anticevich SZ, et al. **Clin Exp Allergy** 1996 May;26(5):549-56

Sephadex induced bronchial hyperreactivity in the rat: hematology, histology, histochemistry and immunohistology of the lung. Kleemann R, et al.
Exp Toxicol Pathol 1996 Jun;48(4):233-41

Eosinophils, mast cells, and basophils in induced sputum from patients with seasonal allergic rhinitis and perennial asthma: relationship to methacholine responsiveness. Foresi A, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):58-64

Damage of the pharyngeal mucosa and hyperresponsiveness of airway in sinusitis. Rolla G, et al.
J Allergy Clin Immunol 1997 Jul;100(1):52-7

Aeroallergen-induced eosinophilic inflammation, lung damage, and airways hyperreactivity in mice can occur independently of IL-4 and allergen-specific immunoglobulins. Hogan SP, et al. **J Clin Invest** 1997 Mar 15;99(6):1329-39

Development of eosinophilic airway inflammation and airway hyperresponsiveness in mast cell-deficient mice. Takeda K, et al. **J Exp Med** 1997 Aug 4;186(3):449-54

Light and electron microscope study in allergic rhinitis patients (ARP) with or without bronchial hyperreactivity (BHR). Bavbek S, et al.
J Investig Allergol Clin Immunol 1996 May-Jun;6(3):172-82

Ovalbumin challenge following immunization elicits recruitment of eosinophils but not bronchial hyperresponsiveness in guinea-pigs: time course and relationship to eosinophil activation status. Banner KH, et al. **Pulm Pharmacol** 1996 Jun;9(3):179-87

PHYSIOPATHOLOGY

The mechanism of bronchial hyperreactivity in allergic rhinitis patients. A light microscopic study on BAL and bronchial biopsy. Bavbek S, et al.
Allergol Immunopathol (Madr) 1996 Mar-Apr;24(2):45-53

Serum levels of eosinophil cationic protein and eosinophil protein x in pollen atopic patients with stable asthma and its relation with bronchial hyperresponsiveness. Chivato T, et al. **Allergol Immunopathol (Madr)** 1996 Nov-Dec; 24(6):243-7

Time course of methacholine induced bronchoconstriction during drugs and spontaneous resolution. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar-Apr;24(2):70-4

Effects of immunotherapy on symptoms, PEFR, spirometry, and airway responsiveness in patients with allergic asthma to house-dust mites (D. pteronyssinus) on inhaled steroid therapy. Costa JC, et al. **Allergy** 1996 Apr;51(4):238-44

Airway reactivity induced reversible voice dysfunction in singers. Cohn JR, et al. **Allergy Asthma Proc** 1997 Jan-Feb; 18(1):1-5

5-Lipoxygenase products are necessary for ovalbumin-induced airway responsiveness in mice. Irvin CG, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1053-8

Endogenous nitric oxide and allergic bronchial hyperresponsiveness in guinea pigs. Mehta S, et al.
Am J Physiol 1997 Sep;273(3 Pt 1):L656-62

Airway hyperreactivity produced by short-term exposure to hyperoxia in neonatal guinea pigs. Schulman SR, et al.
Am J Physiol 1997 Jun;272(6 Pt 1):L1211-6

Perhaps airway smooth muscle dysfunction contributes to asthmatic bronchial hyperresponsiveness after all. Solway J, et al. **Am J Respir Cell Mol Biol** 1997 Aug;17(2):144-6

Lipid mediators in oxygen-induced airway remodeling and hyperresponsiveness in newborn rats. Burghardt JS, et al.
Am J Respir Crit Care Med 1996 Oct;154(4 Pt 1):837-42

Airway hyperresponsiveness and cough-receptor sensitivity in children with recurrent cough. Chang AB, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):1935-9

Lactoferrin, a potent tryptase inhibitor, abolishes late-phase airway responses in allergic sheep. Elrod KC, et al.
Am J Respir Crit Care Med 1997 Aug;156(2 Pt 1):375-81

Effects of experimental rhinovirus 16 infection on airway hyperresponsiveness to bradykinin in asthmatic subjects in vivo. Grünberg K, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):833-8

Bronchial hyperreactivity in patients with familial amyloidotic polyneuropathy and autonomic neuropathy. Kawano O, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1465-8

Airway hyperresponsiveness in a rat model of chronic bronchitis: role of C fibers. Long NC, et al.
Am J Respir Crit Care Med 1997 Apr;155(4):1222-9

Comparison of semiparametric and parametric survival models for the analysis of bronchial responsiveness. Muñoz A, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 2):S234-9

Cyclosporine A inhibits airway reactivity and remodeling after chronic antigen challenge in cats. Padrid PA, et al.
Am J Respir Crit Care Med 1996 Dec;154(6 Pt 1):1812-8

On adjusting measurements of airway responsiveness for lung size and airway caliber. Peat JK, et al.
Am J Respir Crit Care Med 1996 Oct;154(4 Pt 1):870-5

Longitudinal analyses of airway responsiveness and pulmonary function decline. Rijcken B, et al.
Am J Respir Crit Care Med 1996 Dec;154(6 Pt 2):S246-9 (33 ref.)

Nitrogen dioxide exposure enhances asthmatic reaction to inhaled allergen in subjects with asthma. Strand V, et al.
Am J Respir Crit Care Med 1997 Mar;155(3):881-7

Modulation of airway reactivity and peak flow variability in asthmatics receiving the oral contraceptive pill. Tan KS, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1273-7

Improvement of bronchial hyperresponsiveness in asthmatic children treated for concomitant sinusitis. Oliveira CA, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):70-4

LFA-1 and ICAM-1 are crucial for the induction of hyperreactivity in the mouse airways. Buckley TL, et al.
Ann N Y Acad Sci 1996 Oct 31;796:149-61

The role of interleukin-5 (IL-5) in allergic airway hyperresponsiveness in mice. Nagai H, et al.
Ann N Y Acad Sci 1996 Oct 31;796:91-6

Increased responsiveness of human pulmonary arteries in patients with positive bronchodilator response. Cases E, et al. **Br J Pharmacol** 1996 Dec;119(7):1337-40

Effect of dexamethasone and endogenous corticosterone on airway hyperresponsiveness and eosinophilia in the mouse. De Bie JJ, et al. **Br J Pharmacol** 1996 Dec;119(7):1484-90

Inhibition by the immunosuppressive agent FK-506 of antigen-induced airways eosinophilia and bronchial hyperreactivity in mice. Eum SY, et al.
Br J Pharmacol 1997 Jan;120(1):130-6

Involvement of NK2 receptors rather than NK1 receptors in bronchial hyperresponsiveness induced by allergic reaction in guinea-pigs. Mizuguchi M, et al.
Br J Pharmacol 1996 Feb;117(3):443-448

Regional anaesthesia and reactive airway disease [letter; comment] Mercier FJ, et al. **Can J Anaesth** 1997 Mar; 44(3):339-40. Comment on: Can J Anaesth 1996 Jul;43(7):700-13.

Lung epithelial permeability and bronchial responsiveness in subjects with stable asthma. Del Donno M, et al. **Chest** 1997 May;111(5):1255-60

Reevaluation of the relationship between within-day bronchial variability and bronchial responsiveness in asthmatic children. Kondo S, et al. **Chronobiol Int** 1997 Jan;14(1):61-9

Beta-blocker induced asthma: a role for sensory nerve hyperresponsiveness? [editorial; comment] Belvisi M.
Clin Exp Allergy 1996 Dec;26(12):1343-6 (29 ref.). Comment on: Clin Exp Allergy 1996 Dec;26(12):1428-35.

Role of sensory neuropeptides in post-allergic propranolol-induced bronchoconstriction in guinea pigs in vivo [see comments] Fujimura M, et al.
Clin Exp Allergy 1996 Dec;26(12):1428-35. Comment in: Clin Exp Allergy 1996 Dec;26(12):1343-6.

Peptide leukotrienes mediate acetaldehyde-induced bronchial hyper-responsiveness in guinea-pigs. Fujimura M, et al.
Clin Exp Allergy 1997 Jan;27(1):104-9

Effect of experimental rhinovirus 16 colds on airway hyperresponsiveness to histamine and interleukin-8 in nasal lavage in asthmatic subjects in vivo [see comments] Grünberg K, et al. **Clin Exp Allergy** 1997 Jan;27(1):36-45 . Comment in: Clin Exp Allergy 1997 Jan;27(1):7-9.

Modulation of airway responsiveness by the airway epithelium in humans: putative mechanisms. Hulsmann AR, et al. **Clin Exp Allergy** 1996 Nov;26(11):1236-42 (53 ref.)

BRONCHIAL HYPERREACTIVITY

Bronchial hyperresponsiveness and cytokines in virus-induced asthma exacerbations [editorial; comment] Johnston SL. **Clin Exp Allergy** 1997 Jan;27(1):7-9. Comment on: Clin Exp Allergy 1997 Jan;27(1):36-45.

The leukotrienes: mediators of chronic inflammation in asthma. Sampson AP. **Clin Exp Allergy** 1996 Sep; 26(9):995-1004 (103 ref.)

Seasonal differences in airway hyperresponsiveness in asthmatic patients: relationship with allergen exposure and sensitization to house dust mites. van der Heide S, et al. **Clin Exp Allergy** 1997 Jun;27(6):627-33

Mediators on human airway smooth muscle. Armour C, et al. **Clin Exp Pharmacol Physiol** 1997 Mar-Apr; 24(3-4):269-72 (32 ref.)

Role of tachykinins in bronchial hyper-responsiveness. Reynolds PN, et al. **Clin Exp Pharmacol Physiol** 1997 Mar-Apr;24(3-4):273-80 (84 ref.)

Repeatability of a rapid dosimetric method for methacholine challenge using a pocket turbine spirometer for FEV1 measurements. Hedman J, et al. **Clin Physiol** 1996 Jul; 16(4):353-9

The association between baseline lung function and bronchial responsiveness to methacholine. Wassmer G, et al. **Eur J Med Res** 1997 Feb 21;2(2):47-54

Dysfunctional muscarinic M2 autoreceptors in vagally induced bronchoconstriction of conscious guinea pigs after the early allergic reaction. Ten Berge RE, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):131-9

Involvement of tachykinin NK1 and NK2 receptors in substance P-induced microvascular leakage hypersensitivity and airway hyperresponsiveness in guinea-pigs. Boichot E, et al. **Eur Respir J** 1996 Jul; 9(7):1445-50

Occurrence of a late response to exercise in asthmatic children: multiple regression approach using time-matched baseline and histamine control days [see comments] Hofstra WB, et al. **Eur Respir J** 1996 Jul;9(7):1348-55. Comment in: Eur Respir J 1996 Jul;9(7):1335-8.

Asymptomatic bronchial hyperresponsiveness in adolescents and young adults. Kolnaar BG, et al. **Eur Respir J** 1997 Jan;10(1):44-50

Endobronchial secretion of interleukin-13 following local allergen challenge in atopic asthma: relationship to interleukin-4 and eosinophil counts. Kroegel C, et al. **Eur Respir J** 1996 May;9(5):899-904

Acute bronchial obstruction following inhalation of PAF in asthmatic and normal subjects: comparison with methacholine. Louis RE, et al. **Eur Respir J** 1996 Jul; 9(7):1414-20

Exercise-induced asthma: is there space for late-phase reactions? [editorial; comment] Peroni DG, et al. **Eur Respir J** 1996 Jul;9(7):1335-8 (46 ref.). Comment on: Eur Respir J 1996 Jul;9(7):1348-55.

Exercise-induced bronchial hyperresponsiveness and parental ISAAC questionnaire responses. Ponsonby AL, et al. **Eur Respir J** 1996 Jul;9(7):1356-62

Persistence of airway hyperresponsiveness and viral antigen following respiratory syncytial virus bronchiolitis in young guinea-pigs. Riedel F, et al. **Eur Respir J** 1997 Mar; 10(3):639-45

Effect of influenza A virus infection on acid-induced cough response in children with asthma. Shimizu T, et al. **Eur Respir J** 1997 Jan;10(1):71-4

Immediate and delayed effects of nitrogen dioxide exposure at an ambient level on bronchial responsiveness to histamine in subjects with asthma. Strand V, et al. **Eur Respir J** 1996 Apr;9(4):733-40

Abnormal modulation of cholinergic neurotransmission by opioid in hyperresponsive bronchus of rats. Misawa M, et al. **Gen Pharmacol** 1996 Apr;27(3):441-4

Differences in nonspecific bronchial responsiveness between patients with asthma and patients with rhinitis are not explained by type and degree of inhalant allergy. Witteman AM, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):65-72

Neuroeffector mechanisms: the interface between inflammation and neuronal responses. Barnes PJ. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S73-81; discussion S81-3 (67 ref.)

Lung parenchymal shear modulus, airway wall remodeling, and bronchial hyperresponsiveness. Lambert RK, et al. **J Appl Physiol** 1997 Jul;83(1):140-7

Increased variability in bronchial responsiveness in aluminum potroom workers with work-related asthma-like symptoms. Soyseth V, et al. **J Occup Environ Med** 1996 Jan;38(1):66-9

Bronchial hyperresponsiveness: what causes twitchy airways? Page C. **J Pharm Pharmacol** 1997 May;49 Suppl 3:9-11 (37 ref.)

Bronchial responsiveness to inhaled histamine in canine pulmonary congestion. Nishimura Y, et al. **Jpn Circ J** 1997 Sep;61(9):787-94

Abnormal modulation of cholinergic neurotransmission by endogenous nitric oxide in the bronchus of rats with hyperresponsiveness induced by allergen challenge. Misawa M, et al. **Jpn J Pharmacol** 1997 Feb;73(2):125-32

Methacholine dose-response slopes from maximal bronchial challenge tests in asthmatic children: methodological aspects. Gamboa T, et al. **Lung** 1997;175(4):243-52

Effects of GABA-B agonist baclofen on bronchial hyperreactivity to inhaled histamine in subjects with cervical spinal cord injury. Grimm DR, et al. **Lung** 1997; 175(5):333-41

Airway reactivity of nose and bronchi in patients with nasal polyps. Hallén H, et al. **ORL J Otorhinolaryngol Relat Spec** 1995 Nov-Dec; 57(6):328-32

Clinical relevance of bronchial hyperresponsiveness. Carlsen KH. **Pediatr Allergy Immunol** 1996;7(9 Suppl):34-8 (49 ref.)

Increased airway reactivity in human RSV bronchiolitis in the guinea pig is not due to increased wall thickness. Robinson PJ, et al. **Pediatr Pulmonol** 1996 Oct;22(4):248-54

Airway responsiveness to hyperosmolar saline challenge in cystic fibrosis: a pilot study. Rodwell LT, et al. **Pediatr Pulmonol** 1996 May;21(5):282-9

The role of sensory neuropeptides in airway hyperresponsiveness. Baraniuk JN. **Pulm Pharmacol** 1995 Aug-Oct;8(4-5):195-202 (52 ref.)

The contribution of airway nerves to bronchial hyperresponsiveness: similarities with hyperalgesia [editorial] Page CP, et al. **Pulm Pharmacol** 1995 Aug-Oct; 8(4-5):149

Role of tachykinins and neutral endopeptidase in toluene diisocyanate-induced bronchial hyperresponsiveness in guinea pigs. Gagnaire F, et al. **Toxicology** 1997 Jan 15; 116(1-3):17-26

[Change in bronchial hyperreactivity with nCPAP respiration in patients with sleep related respiratory disorders] Thalhofer S, et al. **Pneumologie** 1997 Aug;51 Suppl 3:767-9 (Eng. Abstr.) **(Ger)**

[Changes in blood eosinophils and nonspecific bronchial reactivity after exposure tests to wheat flour and TDI] De Zotti R, et al. **Med Lav** 1996 Mar-Apr;87(2):152-61 (Eng. Abstr.) **(Ita)**

[A study of relation between pulmonary function and bronchial hypersensitivity in severe asthmatic children] Matsuda S, et al. **Arerugi** 1996 Jan;45(1):5-10 (Eng. Abstr.) **(Jpn)**

[Function testing of bronchial responsiveness] Tohda Y, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:55-7 (3 ref.) **(Jpn)**

[Nonspecific bronchial hyperreactivity in patients with seasonal bronchial asthma observed through two consecutive years] Kroczyńska-Bednarek J, et al. **Pol Arch Med Wewn** 1997 Mar;97(3):216-23 (Eng. Abstr.) **(Pol)**

PREVENTION & CONTROL

Murine CTLA4-IgG treatment inhibits airway eosinophilia and hyperresponsiveness and attenuates IgE upregulation in a murine model of allergic asthma. Van Oosterhout AJ, et al. **Am J Respir Cell Mol Biol** 1997 Sep;17(3):386-92

Effects of inhibitors of phosphodiesterase, on antigen-induced bronchial hyperreactivity in conscious sensitized guinea-pigs and airway leukocyte infiltration. Danahay H, et al. **Br J Pharmacol** 1997 Jan;120(2):289-97

Pentoxifylline attenuates LPS-induced bronchial hyperresponsiveness but not the increase in exhaled nitric oxide. Rolla G, et al. **Clin Exp Allergy** 1997 Jan; 27(1):96-103

Effects of RS-albuterol on the development of antigen-mediated airway hyperreactivity in guinea pigs. Jafarian A, et al. **Clin Rev Allergy Immunol** 1996 Spring; 14(1):91-100

Suplatast tosilate, a new type of antiallergic agent, prevents the expression of airway hyperresponsiveness in guinea pigs [published erratum appears in Eur J Pharmacol 1997 Mar 5;321(3):397] Taniguchi H, et al. **Eur J Pharmacol** 1996 Dec 30;318(2-3):447-54

The role of tachykinin receptor antagonists in the prevention of bronchial hyperresponsiveness, airway inflammation and cough. Advenier C, et al. **Eur Respir J** 1997 Aug; 10(8):1892-906 (196 ref.)

Effect of inhaled heparin on adenosine-induced bronchial hyperreactivity. Ceyhan BB, et al. **Int J Clin Pharmacol Ther** 1997 May;35(5):208-13

Nedocromil sodium and airway inflammation in vivo and in vitro. Devalia JL, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S51-7; discussion S64-6 (24 ref.)

Antibody to very late activation antigen 4 prevents interleukin-5-induced airway hyperresponsiveness and eosinophil infiltration in the airways of guinea pigs. Kraneveld AD, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):242-50

Effect of KW-4679, an orally active anti-allergic drug, on antigen-induced airway hyperresponsiveness in actively sensitized guinea pigs. Kawasaki H, et al. **Jpn J Pharmacol** 1996 Mar;70(3):277-80

Attenuation of early and late phase allergen-induced bronchoconstriction in asthmatic subjects by a 5-lipoxygenase activating protein antagonist, BAYx 1005. Hamilton AL, et al. **Thorax** 1997 Apr;52(4):348-54

[Prevention of the development of immediate hypersensitivity and airway hyperresponsiveness following in vivo treatment with soluble IL-4 receptor] Knöchel B, et al. **Pneumologie** 1996 Aug;50(8):569-70 **(Ger)**

PSYCHOLOGY

Perception of airway narrowing in a general population sample. Salome CM, et al. **Eur Respir J** 1997 May; 10(5):1052-8

RADIOGRAPHY

High-resolution computed tomography in patients with bronchial asthma: correlation with clinical features, pulmonary functions and bronchial hyperresponsiveness. Park JW, et al. **J Investig Allergol Clin Immunol** 1997 May-Jun;7(3):186-92

REHABILITATION

[Bronchial hyperreactivity to the inhalation of hypo- and hyperosmolar aerosols and its correction by halotherapy] Gorbenko PP, et al. **Ter Arkh** 1996;68(8):24-8 (Eng. Abstr.) **(Rus)**

[The effect of interference currents on bronchial patency and bronchial hyperreactivity in children with bronchial asthma] Bykova MV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar-Apr; (2):15-8 (Eng. Abstr.) **(Rus)**

THERAPY

Effects of immunotherapy on symptoms, PEFR, spirometry, and airway responsiveness in patients with allergic asthma to house-dust mites (D. pteronyssinus) on inhaled steroid therapy. Costa JC, et al. **Allergy** 1996 Apr;51(4):238-44

Specific immunotherapy with Dermatophagoides pteronyssinus and D. farinae results in decreased bronchial hyperreactivity. Pichler CE, et al. **Allergy** 1997 Mar; 52(3):274-83

Physiological perspectives of therapy in bronchial hyperreactivity [see comments] Pereira LM, et al. **Can J Anaesth** 1996 Jul;43(7):700-13 (104 ref.). Comment in: Can J Anaesth 1997 Mar;44(3):339-40.

Photopheresis, a possible therapy for airway hyperreactivity? van Iperen HP, et al. **J Photochem Photobiol B** 1997 Apr; 38(2-3):228-33

VIROLOGY

Mechanisms of virus induced exacerbations of asthma. Corne JM, et al. **Thorax** 1997 Apr;52(4):380-9 (29 ref.)

BRONCHIAL LAVAGE see **BRONCHOALVEOLAR LAVAGE**

BRONCHIAL LAVAGE FLUID see **BRONCHOALVEOLAR LAVAGE FLUID**

BRONCHIAL NEOPLASMS

Endobronchial extramedullary plasmacytoma. Report of one case. Terzi A, et al. **Lung Cancer** 1996 Dec;16(1):95-100

BLOOD

[Prognostic value of serum levels of cholesterol and apolipoprotein A1 in pulmonary cancer (letter)] Charet JC, et al. **Ann Biol Clin (Paris)** 1997 Jan-Feb;55(1):52 **(Fre)**

CHEMICALLY INDUCED

Bronchial carcinogenesis in syngeneic hamsters. Fernando HC, et al. **Cancer Lett** 1996 Nov 29;108(2):201-4

[Passive smoking and bronchial cancer: a difficult relation to establish] Charloux A, et al. **Rev Pneumol Clin** 1996; 52(4):227-34 (60 ref.) (Eng. Abstr.) **(Fre)**

CHEMISTRY

Combined and sequential expression of p53, Rb, Ras and Bcl-2 in bronchial preneoplastic lesions. Ferron PE, et al. **Tumori** 1997 Mar-Apr;83(2):587-93

COMPLICATIONS

Dermatomyositis and bronchial squamous cell carcinoma: evidence for a true relationship. el Khawand C, et al. **Acta Clin Belg** 1996;51(4):271-4

Acquired intralobar bronchopulmonary sequestration secondary to occluding endobronchial carcinoid tumor. Eustace S, et al. **Clin Imaging** 1996 Jul-Sep;20(3):178-80

Multiple fistulas and tracheobronchial stenoses require extensive stenting of the central airways and esophagus in squamous-cell carcinoma. Witt C, et al. **Endoscopy** 1996 May;28(4):381-5

A 62 year old diabetic with weight loss and lung lesions. Wilkinson IB, et al. **Eur Respir J** 1997 Mar;10(3):740-3

Endobronchial inflammatory pseudotumour exacerbating asthma. Jayne D, et al. **Postgrad Med J** 1997 Feb; 73(856):98-9

[Imaging of limbic paraneoplastic encephalitis] Rimmelin A, et al. **J Radiol** 1997 Jan;78(1):73-6 (Eng. Abstr.) **(Fre)**

[Cushing syndrome disclosing bronchial neuroendocrine carcinoma: value of scintigraphy with octreotide] Vallette S, et al. **Rev Med Interne** 1997;18(2):138-43 (14 ref.) (Eng. Abstr.) **(Fre)**

[Synchronous bronchial cancers disclosed by Pierre Marie Bamberger syndrome and Schwartz-Bartter syndrome (letter)] Bour-Guichenez G, et al. **Rev Pneumol Clin** 1996; 52(4):263-4 **(Fre)**

DIAGNOSIS

High resolution computed tomography in patients referred for intraluminal bronchoscopic therapy with curative intent. Sutedja G, et al. **Eur Respir J** 1996 May;9(5):1020-3

Somatostatin analogue in the localization and treatment of bronchial carcinoid tumours. Temeck BK, et al. **Surg Oncol** 1996 Oct-Dec;5(5-6):195-200 (27 ref.)

[Bronchial mucoepidermoid carcinoma: apropos of 3 cases] Deschildre A, et al. **Arch Pediatr** 1996 Jul;3(7):689–93 (Eng. Abstr.) **(Fre)**

[Pseudo-Still disease and deep neoplasm] Routier G, et al. **Rev Med Interne** 1997;18(1):47–9 (4 ref.) (Eng. Abstr.) **(Fre)**

[Endobronchial lipomas. Apropos of 4 cases] De Abajo C, et al. **Rev Pneumol Clin** 1996;52(6):373–7 (Eng. Abstr.) **(Fre)**

[Panendoscopy in the research of multiple malignant synchronous occult tumors in patients with cancer of the upper aero-digestive tract] Ferri T, et al. **Acta Otorhinolaryngol Ital** 1996 Feb;16(1):47–51 (Eng. Abstr.) **(Ita)**

[Bronchial carcinoid--recurrence after six years. Bronchoscopy and computerized tomography assessment] Gąsiorek D, et al. **Pneumonol Alergol Pol** 1996; 64(5–6):331–4 (Eng. Abstr.) **(Pol)**

[Bronchial carcinoid] Jassem E, et al. **Pneumonol Alergol Pol** 1997;65(5–6):406–10 (28 ref.) **(Pol)**

[Foreign body imitating bronchial neoplasm] Ochmański W, et al. **Przegl Lek** 1997;54(1):70–2 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Photodynamic therapy for early squamous cell carcinomas of the esophagus, bronchi, and mouth with m-tetra (hydroxyphenyl) chlorin. Savary JF, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):162–8

Molecular follow-up of a preinvasive bronchial lesion treated by 13-cis-retinoic acid. Thiberville L, et al. **Hum Pathol** 1997 Jan;28(1):108–10

Gold vapor laser versus tunable argon-dye laser for endobronchial photodynamic therapy. McCaughan JS Jr, et al. **Lasers Surg Med** 1996;19(3):347–50

Direct injection of anti-cancer drugs into endobronchial tumours for palliation of major airway obstruction. Celikoğlu SI, et al. **Postgrad Med J** 1997 Mar; 73(857):159–62

[Feasability of the dose adjustment of continuous infusion administration over 120 hours of 5-fluorouracil associated with cisplatin] Coudert B, et al. **Bull Cancer** 1996 Oct; 83(10):847–52 (Eng. Abstr.) **(Fre)**

[Topotecan--a new principle of effectiveness in oncology. 4th Salzburg Symposium on Quality of Life. 15–17 December 1995] **Geburtshilfe Frauenheilkd** 1996 Jun;56(6 Suppl):1–6 **(Ger)**

[Navelbine (Vinorelbin)--current trends and results. Satellite-Symposium on occasion of the 22nd German Cancer Congress. Berlin, 20 February 1996] **Geburtshilfe Frauenheilkd** 1996 Apr;56(4 Suppl):1–4 **(Ger)**

Navelbine (Vinorelbin)—current trends and results. Satellite Symposium on occasion of the 22nd German Cancer Congress. Berlin, 20 February 1996] **Pneumologie** 1996 Apr; 50(4 Suppl):1–4 **(Ger)**

ENZYMOLOGY

Expression of matrix metalloproteinases and their inhibitors in human bronchopulmonary carcinomas: quantificative and morphological analyses. Nawrocki B, et al. **Int J Cancer** 1997 Aug 7;72(4):556–64

EPIDEMIOLOGY

Mucoepidermoid carcinoma of the bronchus: a case report and review of the literature. Granata C, et al. **Pediatr Pulmonol** 1997 Mar;23(3):226–32 (46 ref.)

[Bronchial cancer: from epidemiology to treatment] Michel FB, et al. **Bull Acad Natl Med** 1996 Oct;180(7):1585–603; discussion 1603–7 (47 ref.) (Eng. Abstr.) **(Fre)**

ETIOLOGY

A newly recognized cause of wheezing: AIDS-related bronchial leiomyomas. de Chadarévian JP, et al. **Pediatr Pulmonol** 1997 Aug;24(2):106–10

[Tuberculous pleurisy followed by bronchial cancer in a patient with HIV infection] N'Gbesso RD, et al. **Rev Pneumol Clin** 1996;52(6):398–403 (35 ref.) (Eng. Abstr.) **(Fre)**

[Infection with Mycobacterium avium presenting as polypoid lesions in left upper-lobe bronchus of an immunocompetent host] Watanabe A, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1140–4 (Eng. Abstr.) **(Jpn)**

GENETICS

p53 alterations in progenitor lesions of the bronchus, esophagus, oral cavity, and colon. Bennett WP. **Cancer Detect Prev** 1995;19(6):503–11 (109 ref.)

FHIT and FRA3B 3p14.2 allele loss are common in lung cancer and preneoplastic bronchial lesions and are associated with cancer-related FHIT cDNA splicing aberrations. Fong KM, et al. **Cancer Res** 1997 Jun 1; 57(11):2256–67

Cytogenetic and molecular genetic analysis of tumorigenic human bronchial epithelial cells induced by radon alpha particles. Weaver DA, et al. **Carcinogenesis** 1997 Jun; 18(6):1251–7

Comparison of spontaneous and induced mutation rates in an immortalized human bronchial epithelial cell line and its tumorigenic derivative. Wittenkeller JL, et al. **Oncology** 1997 Jul-Aug;54(4):335–41

HISTORY

Georgius Agricola: 1494–1555--mining engineer and physician. His contribution to occupational medicine and the aetiology of bronchus carcinoma. Craven SA. **S Afr Med J** 1997 May;87(5):611–2

METABOLISM

Effect of nitrous oxide and propofol on amino acid metabolism in neoplasic patients. Crespo ML, et al. **Nutr Cancer** 1997;27(1):80–3

Cytokeratin expression in preneoplastic lesions and early squamous cell carcinoma of the bronchi. Fisseler-Eckhoff A, et al. **Pathol Res Pract** 1996 Jun;192(6):552–9

MORTALITY

Long-term survival and symptom palliation in small primary bronchial carcinomas following treatment with intraluminal radiotherapy alone. Gollins SW, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):239–46

Twenty two year survival after incomplete resection of advanced adenoid cystic bronchogenic carcinoma. Schoenfeld N, et al. **Eur Respir J** 1996 Jul;9(7):1560–1

PATHOLOGY

Expansion of bronchial epithelial cell populations by in vitro culture of explants from dysplastic and histologically normal sites. Franklin WA, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):297–304

"Sneeze of a cancer from the lung": sternumentum carcinomae pulmonariae. Hornick PI, et al. **Ann Thorac Surg** 1997 Apr; 63(4):1174–5

A follow-up study of progression from dysplasia to squamous cell carcinoma with immunohistochemical examination of p53 protein overexpression in the bronchi of ex-chromate workers. Satoh Y, et al. **Br J Cancer** 1997;75(5):678–83

Effects of histamine and 5-hydroxytryptamine on the growth rate of xenografted human bronchogenic carcinomas. Sheehan PF, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):465–71

Exfoliative cytology of tracheobronchial adenoid cystic carcinoma. Chen KT. **Diagn Cytopathol** 1996 Aug; 15(2):132–5

Fine-needle aspiration biopsy diagnosis of primary bronchial basaloid-squamous carcinoma [letter] Mooney EE, et al. **Diagn Cytopathol** 1997 Feb;16(2):187–8

Expression of matrix metalloproteinases and their inhibitors in human bronchopulmonary carcinomas: quantificative and morphological analyses. Nawrocki B, et al. **Int J Cancer** 1997 Aug 7;72(4):556–64

Adenoid cystic carcinoma arising in the intrapulmonary bronchus. Azukari K, et al. **Intern Med** 1996 May; 35(5):407–9

Value of rigid bronchoscopy and cytodiagnosis of bronchial washings in detecting bronchial carcinoma in the presence of a carcinoma of the upper aerodigestive tract. Dhooge I, et al. **J Otolaryngol** 1996 Aug;25(4):219–22

Childhood bronchial mucoepidermoid tumors. Tsuchiya H, et al. **J Pediatr Surg** 1997 Jan;32(1):106–9 (30 ref.)

Invasive thymoma with endobronchial polypoid growth. Kondo K, et al. **Surg Today** 1997;27(5):466–8

Cellular schwannoma of the bronchus. Nesbitt JC, et al. **Ultrastruct Pathol** 1996 Jul-Aug;20(4):349–54

Neovascularization in hyperplastic, metaplastic and potentially preneoplastic lesions of the bronchial mucosa. Fisseler-Eckhoff A, et al. **Virchows Arch** 1996 Oct; 429(2-3):95–100

[Treatment of thoracic esophageal carcinoma which invades adjacent structure--significance of resection and combined therapy] Fukumoto T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):732–41 (Eng. Abstr.) **(Jpn)**

[Pulmonary metastatic carcinoma of the rectum growing extensively in the bronchial lumen--a case report] Tanaka Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):2100–3 (Eng. Abstr.) **(Jpn)**

[Study of silver binding nucleolar organizer regions (AgNORs) in proliferative lesions of bronchi, colon and thyroid--semiautomatic computer image analysis] Zaczek M. **Folia Med Cracov** 1996;37(1-2):67–88 (82 ref.) (Eng. Abstr.) **(Pol)**

[Granular cell bronchial myoblastoma associated with carcinoma (letter)] Atorrasagasti NM, et al. **Arch Bronconeumol** 1996 Jan;32(1):50–1 **(Spa)**

RADIOGRAPHY

CT appearances of intrathoracic Kaposi's sarcoma in patients with AIDS. Traill ZC, et al. **Br J Radiol** 1996 Dec; 69(828):1104–7

Unilateral lung hyperinflation in a patient with chronic cough. Rosenkranz S, et al. **Chest** 1997 Apr;111(4):1117–9

RADIONUCLIDE IMAGING

Tc-99m MIBI uptake in a bronchial carcinoid tumor. Arbab AS, et al. **Clin Nucl Med** 1996 Dec;21(12):1005–6

Diagnosis of ectopic ACTH production from a bronchial carcinoid by imaging with octreotide scintigraphy. Kristoffersson A, et al. **Eur J Surg** 1996 Jun;162(6):515–8

Imaging of bronchial carcinoid tumors associated to Cushing syndrome with 111In-Octreoscan scintigraphy and immunoscintigraphy with anti-chromogranin monoclonal antibodies. Report of two cases. Carretta A, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):191–4

Localization and postoperative follow-up of a bronchial carcinoid tumor causing Cushing's syndrome by 111In-DTPA labelled octreotide scintigraphy. Fernandez-Fernandez F, et al. **J Endocrinol Invest** 1997 Jun;20(6):327–30

RADIOTHERAPY

Fast neutron therapy of bronchus carcinoma: the pooled results from two European centres. Lessel A. **Bull Cancer Radiother** 1996;83 Suppl:130s–4s

Long-term survival and symptom palliation in small primary bronchial carcinomas following treatment with intraluminal radiotherapy alone. Gollins SW, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):239–46

A method for verifying treatment times for simple high-dose-rate endobronchial brachytherapy procedures. Miller AV, et al. **Med Phys** 1996 Nov;23(11):1903–8

Side effects and quality of life in patients receiving high-dose rate brachytherapy. Fieler VK. **Oncol Nurs Forum** 1997 Apr;24(3):545–53

[High-dose rate endobronchial brachytherapy: results and complications in 189 patients] Taulelle M, et al. **Bull Cancer Radiother** 1996;83(3):127–34 (Eng. Abstr.) **(Fre)**

[Endobronchial brachytherapy: the Saint-Louis Hospital experience] Hennequin C, et al. **Cancer Radiother** 1997; 1(2):159–64 (Eng. Abstr.) **(Fre)**

SECONDARY

A salivary gland-type monomorphic adenoma with trabecular proliferation in the lung. Shirasaki A, et al. **Intern Med** 1995 Nov;34(11):1086–8

[Complete remission of endobronchial, parenchymal and hilar lymphatic lung metastases of prostatic carcinoma after anti-androgenic hormotherapy] Morrone N, et al. **Rev Assoc Med Bras** 1996 Jan-Mar;42(1):57–60 (Eng. Abstr.) **(Por)**

[Endobronchial metastases from primary breast cancer] Pereira JR, et al. **Rev Assoc Med Bras** 1996 Apr-Jun; 42(2):119–22 (Eng. Abstr.) **(Por)**

[Endobronchial metastases in extrapulmonary malignant tumors] Sikimić S, et al. **Vojnosanit Pregl** 1997 Mar-Apr; 54(2):109–12 (Eng. Abstr.) **(Scr)**

SECRETION

[A case report. Bronchial ACTH producing carcinoid] Bergmark V, et al. **Lakartidningen** 1997 Mar 12; 94(11):964–6 **(Swe)**

SURGERY

Laser treatment of endobronchial lesions. Dullye KK, et al. **Anesthesiology** 1997 Jun;86(6):1387–90

Video-assisted thoracoscopic pneumonectomy for bronchial carcinoid tumor in a 14-year-old girl. Craig SR, et al. **J Pediatr Surg** 1996 Dec;31(12):1724–6

Video-assisted thoracoscopic pneumonectomy for bronchial carcinoid tumor in a 14-year-old girl [letter] Weissberg D. **J Pediatr Surg** 1997 Jul;32(7):1135

Sleeve superior segmentectomy of the right lower lobe for endobronchial neurinoma. Report of a case. Sugita M, et al. **Respiration** 1996;63(3):191–4

The palliative treatment of bronchial carcinoma with lasertherapy and stent. Batori M, et al. **Riv Eur Sci Med Farmacol** 1996 Jan-Feb;18(1):29–32

An alternative, non-sleeve technique for reconstruction of main and secondary carina. Antypas GD, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):207–10

Lobectomy by video-assisted thoracic surgery for a hilar bronchial carcinoid tumor. Watanabe M, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):476–9 (6 ref.)

Airway Wallstent [letter; comment] Ladas G, et al. **Thorax** 1997 Jul;52(7):664–5. Comment on: Thorax 1996 Nov;51(11):1127–9.

[Capsular rupture of N2 resected lymph nodes and surgery of bronchial cancer (editorial)] Riquet M. **Rev Mal Respir** 1996 Dec;13(6):535–7 **(Fre)**

[Results of surgical therapy of bronchial carcinoma in advanced age] Schneider P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:841–5 (Eng. Abstr.) **(Ger)**

[Central bronchoplastic procedures in Hungary and their outcome (198–1993)] Hrivó A, et al. **Orv Hetil** 1996 Nov 17;137(46):2559–63 (32 ref.) (Eng. Abstr.) **(Hun)**

[Bronchial lipoma removed with bronchoscopic snaring forceps] Takiguchi Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb;35(2):236–9 (Eng. Abstr.) **(Jpn)**

[Bronchial resections] Baksaas ST, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10;117(15):2179–80 (Eng. Abstr.) **(Nor)**

[Surgical treatment of carcinoid bronchial tumor] Drogset JO, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10; 117(15):2177–8 (Eng. Abstr.) **(Nor)**

[Role of endoscopic laser surgery in the surgical treatment

of bronchial tumors] Grubnik VV, et al. **Klin Khir** 1996; (10):3–5 **(Rus)**

THERAPY

Partially covered Gianturco stent for tracheobronchial stricture caused by intraluminal tumor. Miyayama S, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):60–2

The use of the covered Wallstent for the palliative treatment of inoperable tracheobronchial cancers. A prospective, multicenter study [see comments] Monnier P, et al. **Chest** 1996 Nov;110(5):1161–8. Comment in: Chest 1996 Nov;110(5):1133–5.

Management of malignant esophagorespiratory fistula. Burt M. **Chest Surg Clin N Am** 1996 Nov;6(4):765–76 (50 ref.)

High resolution computed tomography in patients referred for intraluminal bronchoscopic therapy with curative intent. Sutedja G, et al. **Eur Respir J** 1996 May;9(5):1020–3

Phase I study of a recombinant adenovirus–mediated gene transfer in lung cancer patients. Tursz T, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1857–63

Recent advances in managing non–small–cell lung cancer: 5. Endobronchial palliative therapy. Bowman RV. **Med J Aust** 1997 Jun 2;166 Suppl:S17–20

Endoscopic laser therapy in malignant tracheobronchial obstruction using sequential Nd YAG laser and photodynamic therapy. Moghissi K, et al. **Thorax** 1997 Mar; 52(3):281–3

[Bronchial cancer: from epidemiology to treatment] Michel FB, et al. **Bull Acad Natl Med** 1996 Oct;180(7):1585–603; discussion 1603–7 (47 ref.) (Eng. Abstr.) **(Fre)**

[Indications, technical implementation and results of endobronchial stent implantation] Thies J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:547–9 (Eng. Abstr.) **(Ger)**

VETERINARY

Granular cell tumour in the bronchus of a horse. Goodchild LM, et al. **Aust Vet J** 1997 Jan;75(1):16–8

VIROLOGY

Pediatric respiratory papillomatosis: prognostic role of viral typing and cofactors. Rimell FL, et al. **Laryngoscope** 1997 Jul;107(7):915–8

BRONCHIAL PROVOCATION TESTS

Time course of methacholine induced bronchoconstriction during drugs and spontaneous resolution. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):70–4

Sensitivity of FEV1 and indices of flow volume curve in the methacholine test. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):75–80

Value of the peak expiratory flow in bronchodynamic tests. Pino JM, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):54–7

Allergen–induced changes in airway responsiveness are related to baseline airway responsiveness. de Bruin–Weller MS, et al. **Allergy** 1996 Jun;51(6):401–6

Placebo–controlled challenges with perfume in patients with asthma–like symptoms. Millqvist E, et al. **Allergy** 1996 Jun; 51(6):434–9

Asthma and rhinitis in wooding workers. De Zotti R, et al. **Allergy Asthma Proc** 1996 Jul–Aug;17(4):199–203

Airway responsiveness in asthma: bronchial challenge with histamine and 4.5% sodium chloride before and after budesonide. du Toit JI, et al. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):7–14

Bronchial reactivity in oil–mist exposed automobile workers revisited [letter] Wild P, et al. **Am J Ind Med** 1997 Oct; 32(4):421–2

The immediate and late allergic response to segmental bronchopulmonary provocation in asthma. Jarjour NN, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1515–21

Elastase contributes to antigen–induced mucociliary dysfunction in ovine airways. O'Riordan TG, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1522–8

Interpretation of positive results of a methacholine inhalation challenge and 1 week of inhaled bronchodilator use in diagnosing and treating cough–variant asthma. Irwin RS, et al. **Arch Intern Med** 1997 Sep 22;157(17):1981–7

Efficacy and tolerability of astemizole–D and Loratadine–D during prolonged, controlled allergen challenge in the Vienna Challenge Chamber. Horak F, et al. **Arzneimittelforschung** 1996 Nov;46(11):1077–81

Testing bronchial hyper–responsiveness: provocation or peak expiratory flow variability? den Otter JJ, et al. **Br J Gen Pract** 1997 Aug;47(421):487–92

Tolerance to the protective effect of salmeterol on allergen challenge. Giannini D, et al. **Chest** 1996 Dec;110(6):1452–7

Methacholine challenge testing: safety of low starting FEV1. Asthma Clinical Research Network (ACRN). Martin RJ, et al. **Chest** 1997 Jul;112(1):53–6

IL–1 beta release from cultured bronchial epithelial cells and bronchoalveolar lavage cells from allergic and normal humans following segmental challenge with ragweed. Hastie AT, et al. **Cytokine** 1996 Sep;8(9):730–8

Priming of circulating human eosinophils following late response to allergen challenge [see comments] Evans DJ, et al. **Eur Respir J** 1996 Apr;9(4):703–8. Comment in: Eur Respir J 1997 Jan;10(1):251–2.

Oscillatory pressure transients after flow interruption during bronchial challenge test in children. Frey U, et al. **Eur Respir J** 1997 Jan;10(1):75–81

Breathing pattern during bronchial challenge in humans. Meessen NE, et al. **Eur Respir J** 1997 May;10(5):1059–63

Effects of long–acting and short–acting beta–agonists on methacholine dose–response curves in asthmatics. Wong AG, et al. **Eur Respir J** 1997 Feb;10(2):330–6

Allergen bronchoprovocation of patients with mild allergic asthma after ozone exposure. Ball BA, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):563–72

Ragweed sensitization alters pulmonary vascular responses to bronchoprovocation in beagle dogs. Theodorou A, et al. **J Appl Physiol** 1997 Sep;83(3):912–7

Differences in the effect of allergen avoidance on bronchial hyperresponsiveness as measured by methacholine, adenosine 5'–monophosphate, and exercise in asthmatic children. Benckhuijsen J, et al. **Pediatr Pulmonol** 1996 Sep; 22(3):147–53

Effect of capsaicin on airway responsiveness to hypertonic saline challenge in asthmatic and non–asthmatic children. Chang AB, et al. **Pediatr Pulmonol** 1997 Jun;23(6):412–6

Measurement of lung function in awake 2–4–year–old asthmatic children during methacholine challenge and acute asthma: a comparison of the impulse oscillation technique, the interrupter technique, and transcutaneous measurement of oxygen versus whole–body plethysmography. Klug B, et al. **Pediatr Pulmonol** 1996 May;21(5):290–300

Chest surface mapping of lung sounds during methacholine challenge. Pasterkamp H, et al. **Pediatr Pulmonol** 1997 Jan; 23(1):21–30

Airway responsiveness to hyperosmolar saline challenge in cystic fibrosis: a pilot study. Rodwell LT, et al. **Pediatr Pulmonol** 1996 May;21(5):282–9

Challenge interval determines tachyphylaxis to aerosolized LTD4. Madsen F, et al. **Pulm Pharmacol** 1995 Dec; 8(6):245–9

Lung auscultation in airway challenge testing. Purohit A, et al. **Respir Med** 1997 Mar;91(3):151–7

Relationship between serum heat–stable neutrophil chemotactic activity during early airway reaction to allergen and the pattern of airway response (early versus late reactions) in asthmatic subjects. Dente FL, et al. **Respiration** 1997;64(4):285–90

Maximal forced expiratory maneuver to measure airway obstruction in anesthetized guinea pigs. Lin CC, et al. **Respiration** 1997;64(4):257–62

[Intraoperative contrast echocardiography for detection of a patient foramen ovale using a provocation test and ventilation with PEEP respiration] Papadopoulos G, et al. **Anaesthesist** 1996 Mar;45(3):235–9 (Eng. Abstr.) **(Ger)**

[Tachyphylaxis of airway response to inhaled bradykinin over several days] Schmidt D, et al. **Pneumologie** 1996 Nov; 50(11):779–82 (Eng. Abstr.) **(Ger)**

[Effect of n–CPAP therapy on outcome of cold provocation] Thalhofer S, et al. **Pneumologie** 1997 Aug;51 Suppl 3:773–5 (Eng. Abstr.) **(Ger)**

[Function testing of bronchial responsiveness] Tohda Y, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:55–7 (3 ref.) **(Jpn)**

[Bronchial inhalation challenge with antigens] Tohda Y, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:58–61 (5 ref.) **(Jpn)**

[The effect of bronchial inhalation provocation tests on levels of interleukin–8 in material from broncho–alveolar fluid of patients with atopic bronchial asthma] Jahnz–Różyk K, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):32–5 (Eng. Abstr.) **(Pol)**

INSTRUMENTATION

Pocket–sized spirometer for monitoring bronchial challenge procedures. Keskinen H, et al. **Clin Physiol** 1996 Nov; 16(6):633–43

Variation in nebulizer aerosol output and weight output from the Mefar dosimeter: implications for multicentre studies. Chinn S, et al. **Eur Respir J** 1997 Feb;10(2):452–6

METHODS

Bronchial allergen challenge methodological studies. Frølund L. **Allergy** 1996;51(29 Suppl):1–41 (135 ref.)

Exposure chamber for allergen challenge. A placebo–controlled, double–blind trial in house–dust–mite asthma. Rønborg SM, et al. **Allergy** 1997 Aug;52(8):821–8

Bronchial hyperresponsiveness and bronchial provocation tests. Myers JD, et al. **Br J Hosp Med** 1996 Feb 7–20; 55(3):107–10 (19 ref.)

It is time to consider standardizing the interrupter technique [letter; comment] Carter ER. **Eur Respir J** 1997 Jun; 10(6):1428–9. Comment on: Eur Respir J 1996 Jul;9(7):1368–73. Comment on: Eur Respir J 1996 Jul;9(7):1374–80.

Comparison of bronchial challenge with ultrasonic nebulized distilled water and hypertonic saline in children with mild–to–moderate asthma. Wojnarowski C, et al. **Eur Respir J** 1996 Sep;9(9):1896–901

Bronchial hyperresponsiveness following acute severe asthma. Rabbat A, et al. **Intensive Care Med** 1996 Jun; 22(6):530–8

Quantitative bronchial challenge tests with wheat flour dust administered by spinhaler: comparison with aqueous wheat flour extract inhalation. Merget R, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):199–207

Comparison between peak expiratory flow and forced expiratory volume in one second (FEV1) during bronchoconstriction induced by different stimuli. Giannini D, et al. **J Asthma** 1997;34(2):105–11

Bronchoprovocation with methacholine in children under two years old: a follow–up study. Guirau LM, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):110–4

Methacholine dose–response slopes from maximal bronchial challenge tests in asthmatic children: methodological aspects. Gamboa T, et al. **Lung** 1997;175(4):243–52

In vivo diagnostic procedures: skin testing, nasal provocation, and bronchial provocation. Peebles RS, et al. **Methods** 1997 Sep;13(1):14–24

Assessment of bronchial hyperresponsiveness in preschool children: methodological issues. Klug B, et al. **Pediatr Allergy Immunol** 1996;7(9 Suppl):25–7 (13 ref.)

Measurement of bronchial responsiveness by non–pharmacological challenges: methodological issues. Zach MS. **Pediatr Allergy Immunol** 1996;7(9 Suppl):28–33 (36 ref.)

Repeatability of methacholine challenges in 2– to 4–year–old children with asthma, using a new technique for quantitative delivery of aerosol. Klug B, et al. **Pediatr Pulmonol** 1997 Apr;23(4):278–86

Effect of age, height, and prechallenge respiratory resistance on bronchial hyperresponsiveness in childhood asthma using the forced oscillation technique. Mochizuki H, et al. **Pediatr Pulmonol** 1996 Jul;22(1):1–6

[Recommendations for implementing bronchial provocation tests with pharmacologic substances. German Society of Pneumology—Scientific "Bronchial Provocation Tests" Study Group (see comments)] Klein G. **Med Klin** 1997 Aug 15;92(8):458–63. Comment in: Med Klin 1997 Aug 15;92(8):492–3. **(Ger)**

[Is the bronchial provocation test a provocation? (editorial; comment)] Nolte D. **Med Klin** 1997 Aug 15;92(8):492–3. Comment on: Med Klin 1997 Aug 15;92(8):458–63. **(Ger)**

[Function testing of bronchial responsiveness] Tohda Y, et al. **Nippon Rinsho** 1996 Nov;54(11):2903–7 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Usefulness of allergen extract Aquagen SQ–Dpt for administering bronchial provocation tests] Siergiejko Z, et al. **Pneumonol Alergol Pol** 1996;64(11–12):750–7 (Eng. Abstr.) **(Pol)**

STANDARDS

EAACI provocation tests with allergens. Report prepared by the European Academy of Allergology and Clinical Immunology Subcommittee on provocation tests with allergens. Melillo G, et al. **Allergy** 1997;52(35 Suppl):1–35

A short protocol for methacholine provocation testing adapted to the Rosenthal–Chai dosimeter technique. Jörres RA, et al. **Chest** 1997 Apr;111(4):866–9

Challenge tests in nose and bronchi: pharmacological modulation of rhinitis and asthma. Mygind N, et al. **Clin Exp Allergy** 1996 May;26 Suppl 3:39–43 (35 ref.)

Standardization of methacholine inhalation challenge. Sekerel BE, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):165–72

BRONCHIAL SPASM

CHEMICALLY INDUCED

ETB receptor mediating pulmonary hypertension and bronchoconstriction induced by endothelin–1 in the guinea pig. del Basso P, et al. **Acta Physiol Hung** 1996;84(3):259–60

Time course of methacholine induced bronchoconstriction during drugs and spontaneous resolution. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):70–4

Accelerated cell–mediated broncho–obstructive reaction to inhaled stepronin: a case report. Romano A, et al. **Allergy** 1996 Apr;51(4):269–71

Case reports on acute toluene poisoning during parquet flooring. Tan WP, et al. **Ann Acad Med Singapore** 1997 Jan;26(1):138–40

Heparin–associated refractory bronchospasm [letter] Savas MC, et al. **Ann Pharmacother** 1997 Feb;31(2):253

The induction of a biphasic bronchospasm by the ETB agonist, IRL 1620, due to thromboxane A2 generation and endothelin–1 release in guinea–pigs. Noguchi S, et al. **Br J Pharmacol** 1996 Jul;118(6):1397–402

ACE inhibitor–induced cough and bronchospasm. Incidence, mechanisms and management [see comments] Overlack A. **Drug Saf** 1996 Jul;15(1):72–8 (71 ref.). Comment in: Drug Saf 1997 Feb;16(2):150–1.

Compensation of muscarinic bronchial effects of talsaclidine by concomitant sympathetic activation in guinea pigs. Walland A, et al. **Eur J Pharmacol** 1997 Jul 9; 330(2–3):213–9

Acute hydrogen selenide gas poisoning admissions in one of the hospitals in Delhi, India: case report. Banerjee BD, et al. **Hum Exp Toxicol** 1997 May;16(5):276–8

Losartan–induced bronchospasm. Dicpinigaitis PV, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1128–30

Bronchoconstriction and eosinophil recruitment in guinea pig lungs after platelet activating factor administration. Lin CC, et al. **J Asthma** 1997;34(2):153–60

In vivo role of the adenosine A3 receptor: N6–2–(4–aminophenyl)ethyladenosine induces bronchospasm in BDE rats by a neurally mediated

mechanism involving cells resembling mast cells. Meade CJ, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1148–56

[Iatrogenic drug–induced bronchospasm, cough, and bronchiolitis. Etiologic and physiopathologic aspects] Cottin V, et al. **Rev Mal Respir** 1996;13(4):339–60 (310 ref.) (Eng. Abstr.) **(Fre)**

[Bronchospasm due to anaphylactic reaction to Hydroxyethyl starch (HESPANDER)] Takada M, et al. **Masui** 1997 Mar; 46(3):397–400 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Utility of the expiratory capnogram in the assessment of bronchospasm. Yaron M, et al. **Ann Emerg Med** 1996 Oct; 28(4):403–7

Bronchospasm/desaturation under anaesthesia: are they signs of pneumothorax? Zubair NA, et al. **JPMA J Pak Med Assoc** 1997 Jun;47(6):174–6

Vocal cord dysfunction mimicking exercise–induced bronchospasm in adolescents [see comments] Landwehr LP, et al. **Pediatrics** 1996 Nov;98(5):971–4. Comment in: Pediatrics 1997 Jun;99(6):923–4.

Vocal cord dysfunction mimicking exercise–induced bronchospasm in adolescents [letter; comment] Weir M, et al. **Pediatrics** 1997 Jun;99(6):923–4. Comment on: Pediatrics 1996 Nov;98(5):971–4.

DRUG THERAPY

Intravenous magnesium sulphate in the management of refractory bronchospasm in a ventilated asthmatic. Mills R, et al. **Anaesthesia** 1997 Aug;52(8):782–5

Effects of 1-[3-(4-benzhydryl-1-piperazinyl)propyl]-3-(1H-imidazol-1-ylmethyl)-1H-indole-6-carboxylic acid with thromboxane A2 synthetase inhibitory and H1-blocking activities on anaphylactic bronchospasm. Nakamura S, et al. **Arzneimittelforschung** 1996 Nov; 46(11):1067–71

Continuous infusion of ketamine in mechanically ventilated children with refractory bronchospasm. Youssef–Ahmed MZ, et al. **Intensive Care Med** 1996 Sep;22(9):972–6

Ambroxol improves the broncho–spasmolytic activity of clenbuterol in the guinea–pig. Pairet M, et al. **J Pharm Pharmacol** 1997 Feb;49(2):184–6

Mucolytic and mucokinetic therapy. Wills PJ, et al. **Pulm Pharmacol** 1996 Aug;9(4):197–204 (93 ref.)

An inhibitor of poly(adenosine 5'-diphosphoribose) synthetase, 3-aminobenzamide, does not improve cardiovascular depression, bronchospasm, or survival associated with systemic anaphylaxis in rabbits in vivo [see comments] Takeuchi H, et al. **Shock** 1997 Aug;8(2):147–52 . Comment in: Shock 1997 Aug;8(2):153–4.

[Sevoflurane inhalation reduced bronchospasm after extubation] Hamanaka N, et al. **Masui** 1996 Sep; 45(9):1131–4 (Eng. Abstr.) **(Jpn)**

[Beta 2–mimetics––mechanism of action and their place in treatment of bronchospastic states] Chazan R. **Pol Merkuriusz Lek** 1997 Jan;2(7):36–9 (58 ref.) (Eng. Abstr.) **(Pol)**

ETIOLOGY

New–onset bronchospasm or recrudescence of asthma associated with cocaine abuse. Osborn HH, et al. **Acad Emerg Med** 1997 Jul;4(7):689–92

Perioperative respiratory complications in patients with asthma [see comments] Warner DO, et al. **Anesthesiology** 1996 Sep;85(3):460–7. Comment in: Anesthesiology 1996 Sep;85(3):455–6.

Acute bronchospasm associated with polymethylmethacrylate cement. Wong HY, et al. **Anesthesiology** 1997 Sep;87(3):696–8

Severe bronchospasm during cardiopulmonary bypass. Ecoff SA, et al. **Can J Anaesth** 1996 Dec;43(12):1244–8 (26 ref.)

Continuous infusion of ketamine in mechanically ventilated children with refractory bronchospasm. Youssef–Ahmed MZ, et al. **Intensive Care Med** 1996 Sep;22(9):972–6

[Pathomechanism of exercise induced bronchospasm] Dor A, et al. **Pneumonol Alergol Pol** 1996;64(7–8):489–96 (41 ref.) **(Pol)**

IMMUNOLOGY

Accelerated cell–mediated broncho–obstructive reaction to inhaled stepronin: a case report. Romano A, et al. **Allergy** 1996 Apr;51(4):269–71

PARASITOLOGY

Respiratory symptoms and subcutaneous granuloma caused by mesocercariae: a case report. Kramer MH, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):447–8

PATHOLOGY

[Morphometric and ultrastructural characterization of the bronchial smooth musculature in experimental bronchospasm] Zashikhin AL, et al. **Arkh Patol** 1997 Mar–Apr;59(2):38–41 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

[Study of spontaneous resolution of bronchial spasm after methacholine challenge. Comparison of patients with different degree of hyperreactivity] Mannino F, et al. **Recenti Prog Med** 1997 Mar;88(3):115–9 (Eng. Abstr.) **(Ita)**

[Changes in electroencephalograms and brain blood filling in guinea pigs in experimental bronchospasm] Karashurov SE. **Patol Fiziol Eksp Ter** 1996 Apr–Jun;(2):9–11 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Comparative effects of thiopentone and propofol on respiratory resistance after tracheal intubation. Wu RS, et al. **Br J Anaesth** 1996 Dec;77(6):735–8

Synthesis and bronchodilatory activity of four new derivatives of deoxyvasicine. Ojo B, et al. **Drug Des Discov** 1996 Mar;14(1):1–14

RADIOGRAPHY

Chest radiography in the initial episode of bronchospasm in children: can clinical variables predict pathologic findings? Walsh–Kelly CM, et al. **Ann Emerg Med** 1996 Oct; 28(4):391–5

THERAPY

Tracheal gas insufflation improves ventilatory efficiency during metacholine–induced bronchospasm. Miro AM, et al. **J Crit Care** 1997 Mar;12(1):13–21

BRONCHIECTASIS

COMPLICATIONS

Bronchial dilatation in patients with HIV infection: CT assessment and correlation with pulmonary function tests and findings at bronchoalveolar lavage. King MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1535–40

Chronic productive cough and bronchiectasis in a 40–year–old woman [clinical conference] Marcotte GV, et al. **Ann Allergy Asthma Immunol** 1997 Jun;78(6):559–64

Decreased survival in patients with co–existent rheumatoid arthritis and bronchiectasis. Swinson DR, et al. **Br J Rheumatol** 1997 Jun;36(6):689–91

A morphologic study of nodular lung carcinomas and their possible pathogenesis from a cluster of non–obstructive bronchiectasis. Tonelli P. **Lung Cancer** 1997 May; 17(1):135–45

Pulmonary tumourlets and microcarcinoids in bronchiectasis. Canessa PA, et al. **Monaldi Arch Chest Dis** 1997 Apr; 52(2):138–9

Rheumatoid arthritis and bronchiectasis. A retrospective study of fourteen cases. Despaux J, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):801–8 (36 ref.)

Bronchiectasis in bone marrow transplantation [see comments] Morehead RS. **Thorax** 1997 Apr;52(4):392–3. Comment in: Thorax 1997 Apr;52(4):390–1.

[Bronchial dilatation and rheumatoid arthritis: a little known association] Léna H, et al. **Rev Mal Respir** 1997 Jan; 14(1):37–43 (Eng. Abstr.) **(Fre)**

[Bronchiectasis and rheumatoid arthritis. Incidence and etiopathogenic aspects. Review of the literature] Despaux J, et al. **Rev Med Interne** 1997;18(2):144–52 (81 ref.) (Eng. Abstr.) **(Fre)**

[Thymoma and dilatation of the bronchi] Saint–Georges F, et al. **Rev Pneumol Clin** 1997;53(3):154–6 (Eng. Abstr.) **(Fre)**

[Recurrent infections of the upper airways] Tränkle P, et al. **Schweiz Rundsch Med Prax** 1997 Feb 18;86(8):321–3 **(Ger)**

[Amyloidosis secondary to bronchiectasis] Takeuchi S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):601–4 (Eng. Abstr.) **(Jpn)**

[Disseminated pulmonary process developing in concurrent diseases and their multimodal treatment] Parizhskiĭ ZM, et al. **Vestn Rentgenol Radiol** 1997 Mar–Apr;(2):41–3 **(Rus)**

CONGENITAL

[Left pneumonectomy in a child with congenital bronchiectasis] Tucciarone L, et al. **Pediatr Med Chir** 1996 May–Jun;18(3):323–5 (11 ref.) (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Elevated levels of cytokeratin 19 in the bronchoalveolar lavage fluid of patients with chronic airway inflammatory diseases––a specific marker for bronchial epithelial injury. Nakamura H, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1217–21

Validation of the St. George's Respiratory Questionnaire in bronchiectasis. Wilson CB, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):536–41

Application of multivariate linear discriminant analysis to lung sounds in some pulmonary diseases. Celebi G, et al. **Monaldi Arch Chest Dis** 1996 Feb;51(1):42–9

DRUG THERAPY

Inhaled gentamicin reduces airway neutrophil activity and mucus secretion in bronchiectasis. Lin HC, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2024–9

Effect of roxithromycin on airway responsiveness in children with bronchiectasis: a double–blind, placebo–controlled study [see comments] Koh YY, et al. **Eur Respir J** 1997 May;10(5):994–9. Comment in: Eur Respir J 1997 May;10(5):971–2.

Two cases of severe bronchiectasis successfully treated with a prolonged course of trimethoprim/sulfamethoxazole. Honda T, et al. **Intern Med** 1996 Dec;35(12):979–83

Sodium chloride increases the ciliary transportability of cystic fibrosis and bronchiectasis sputum on the mucus–depleted bovine trachea. Wills PJ, et al. **J Clin Invest** 1997 Jan 1;99(1):9–13

Tetany in a child with AIDS receiving intravenous tobramycin. Slayton W, et al. **South Med J** 1996 Nov; 89(11):1108–10

Nebulisers for bronchiectasis. Currie DC. **Thorax** 1997 Apr; 52 Suppl 2:S72–4

ETIOLOGY

Pulmonary artery band migration producing endobronchial obstruction. Parry RL, et al. **J Pediatr Surg** 1997 Jan; 32(1):48–9

Bronchiectasis resulting from aspirated grass inflorescences. Başok O, et al. **Scand Cardiovasc J** 1997;31(3):157–9 (8 ref.)

[Severe bronchial stenosis with upstream bronchiectasis in an arc welder: causal relation or epiphenomenon?] Charpin D, et al. **Rev Mal Respir** 1997 Apr;14(2):137–9 (Eng. Abstr.) **(Fre)**

[Case of allergic bronchopulmonary aspergillosis with bronchiectasis ––long–term follow–up study] Tsuboi N. **Jpn J Antibiot** 1997 Jan;50(1):65–8; discussion 68–70,75–6 **(Jpn)**

GENETICS

CFTR gene mutations in adults with disseminated bronchiectasis. Girodon E, et al. **Eur J Hum Genet** 1997 May–Jun;5(3):149–55

IMMUNOLOGY

Airway interleukin–8 in elderly patients with bacterial lower respiratory tract infections. Ponglertnapagorn P, et al. **Microbiol Immunol** 1996;40(2):177–82

[The immunoglobulin content of the bronchial secretion in children operated on for bronchiectasis] Vasil'ev VN, et al. **Vestn Khir Im I I Grek** 1996;155(2):67–9 (Eng. Abstr.) **(Rus)**

METABOLISM

Autocrine modulation of IL–8 production by sputum neutrophils in chronic bronchial sepsis. Pang G, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):726–31

MICROBIOLOGY

Bacterial colonization of distal airways in healthy subjects and chronic lung disease: a bronchoscopic study. Cabello H, et al. **Eur Respir J** 1997 May;10(5):1137–44

Effect of sputum bacteriology on the quality of life of patients with bronchiectasis. Wilson CB, et al. **Eur Respir J** 1997 Aug;10(8):1754–60

Transcatheter indigeneous coil embolization in recurrent massive hemoptysis secondary to post–tubercular bronchiectasis. Sharma S, et al. **J Assoc Physicians India** 1995 Feb;43(2):127–9

Genome macrorestriction analysis of sequential Pseudomonas aeruginosa isolates from bronchiectasis patients without cystic fibrosis. Hla SW, et al. **J Clin Microbiol** 1996 Mar; 34(3):575–8

MORTALITY

Decreased survival in patients with co–existent rheumatoid arthritis and bronchiectasis. Swinson DR, et al. **Br J Rheumatol** 1997 Jun;36(6):689–91

PATHOLOGY

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 40–1996. A 58–year–old man with progressive hypotension and respiratory failure after treatment for apparent pulmonary tuberculosis [clinical conference] **N Engl J Med** 1996 Dec 26; 335(26):1974–82

Complete clinical remission and subsequent relapse of bronchiectasis–related (AA) amyloid induced nephrotic syndrome. Goldsmith DJ, et al. **Nephron** 1996;74(3):572–6

Chronic sputum production: correlations between clinical features and findings on high resolution computed tomographic scanning of the chest. Smith IE, et al. **Thorax** 1996 Sep;51(9):914–8

PHYSIOPATHOLOGY

Lung function in bronchiectasis: the influence of Pseudomonas aeruginosa. Evans SA, et al. **Eur Respir J** 1996 Aug;9(8):1601–4

Dissociation of neutrophil emigration and metabolic activity in lobar pneumonia and bronchiectasis [see comments] Jones HA, et al. **Eur Respir J** 1997 Apr;10(4):795–803. Comment in: Eur Respir J 1997 Apr;10(4):770–1.

Effect of sputum bacteriology on the quality of life of patients with bronchiectasis. Wilson CB, et al. **Eur Respir J** 1997 Aug;10(8):1754–60

[Bronchiectasis––current aspects of an old disease] Frey HR, et al. **Schweiz Med Wochenschr** 1997 Feb 8;127(6):219–30 (53 ref.) (Eng. Abstr.) **(Ger)**

BRONCHIECTASIS

RADIOGRAPHY

Cylindrical bronchiectasis: diagnostic findings on thin-section CT. Kim JS, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):751-4

Interobserver variation in the diagnosis of bronchiectasis on high-resolution computed tomography. Diederich S, et al. **Eur Radiol** 1996;6(6):801-6

Clinics in diagnostic imaging (10). Cylindrical brochiectasis. Khong PL, et al. **Singapore Med J** 1996 Feb;37(1):107-10

Effects of airway infection by Pseudomonas aeruginosa: a computed tomographic study. Miszkiel KA, et al. **Thorax** 1997 Mar;52(3):260-4

[Diagnostic imaging in bronchiectases. Value of CT and HRCT] Diederich S, et al. **Radiologe** 1996 Jul;36(7):550-9 (39 ref.) (Eng. Abstr.) **(Ger)**

[Pulmonary changes in high-resolution spiral CT in Williams-Campbell syndrome] Pauleit D, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):589-91 **(Ger)**

RADIONUCLIDE IMAGING

Ventilation-perfusion scintigraphic correlation with multimodality imaging in a proven case of Swyer-James (Macleod's) syndrome. Salmanzadeh A, et al. **Clin Nucl Med** 1997 Feb;22(2):115-8

SURGERY

Surgical management of bronchiectasis. Agasthian T, et al. **Ann Thorac Surg** 1996 Oct;62(4):976-8; discussion 979-80

[Left pneumonectomy in a child with congenital bronchiectasis] Tucciarone L, et al. **Pediatr Med Chir** 1996 May-Jun;18(3):323-5 (11 ref.) (Eng. Abstr.) **(Ita)**

THERAPY

Long-term nasal intermittent positive pressure ventilation (NIPPV) in sixteen consecutive patients with bronchiectasis: a retrospective study. Gacouin A, et al. **Eur Respir J** 1996 Jun;9(6):1246-50

Bronchiectasis in Finland: trends in hospital treatment. Säynäjäkangas O, et al. **Respir Med** 1997 Aug;91(7):395-8

VIROLOGY

Latent adenoviral infection in follicular bronchiectasis [letter; comment] Teramoto S. **Am J Respir Crit Care Med** 1997 Jun;155(6):2113-4. Comment on: Am J Respir Crit Care Med 1995 Jan;151(1):170-6.

[Bronchopneumonia, obstructive bronchitis and bronchiectasis in children with adenovirus infections] Koncul I, et al. **Lijec Vjesn** 1997 Jan;119(1):11-5 (Eng. Abstr.) **(Scr)**

BRONCHIOLES see **BRONCHI**

BRONCHIOLITIS

Diffuse panbronchiolitis--a new Japanese export? Corne J. **Lancet** 1996 Nov 30;348(9040):1465-6

[Pathophysiology of diffuse panbronchiolitis and progress of the therapy] Kudoh S. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:19-24 (27 ref.) **(Jpn)**

[Bronchiolitis: conceptual review] Merino JM, et al. **Rev Med Univ Navarra** 1997 Apr-Jun;41(2):36-41 (37 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

White blood cell count, C-reactive protein and erythrocyte sedimentation rate in respiratory syncytial virus infection of the lower respiratory tract. Saijo M, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):596-600

Serum eosinophil cationic protein and interleukin-5 in children with bronchial asthma and acute bronchiolitis. Oymar K, et al. **Pediatr Allergy Immunol** 1996 Nov; 7(4):180-6

Serum eosinophil cationic protein as a predictor of wheezing after bronchiolitis. Reijonen TM, et al. **Pediatr Pulmonol** 1997 Jun;23(6):397-403

[Effects of erythromycin on H2O2 generation by neutrophils] Matsumoto K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Jan;35(1):3-8 (Eng. Abstr.) **(Jpn)**

CHEMICALLY INDUCED

[Iatrogenic drug-induced bronchospasm, cough, and bronchiolitis. Etiologic and physiopathologic aspects] Cottin V, et al. **Rev Mal Respir** 1996;13(4):339-60 (310 ref.) (Eng. Abstr.) **(Fre)**

CLASSIFICATION

Failure of oxygen saturation and clinical assessment to predict which patients with bronchiolitis discharged from the emergency department will return requiring admission. Roback MG, et al. **Pediatr Emerg Care** 1997 Feb;13(1):9-11

COMPLICATIONS

Anti-inflammatory therapy reduces wheezing after bronchiolitis [letter; comment] Hakim A. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):108-9. Comment on: Arch Pediatr Adolesc Med 1996 May;150(5):512-7.

Respiratory bronchiolitis-associated interstitial lung disease: a case report with bronchoalveolar lavage findings. Bosi F, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):448-50

Respiratory syncytial virus bronchiolitis in a girl undergoing chemotherapy for acute lymphoblastic leukemia: an immunologic study of local secretion. Tsutsumi H, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):635-6 (12 ref.)

Heliox in respiratory failure secondary to bronchiolitis: a new therapy. Paret G, et al. **Pediatr Pulmonol** 1996 Nov; 22(5):322-3

Index of Suspicion. Case 3. Bronchiolitis and diabetic ketoacidosis. Russakoff N. **Pediatr Rev** 1997 Feb;18(2):63, 65

[Ulcerative colitis and dyspnea] Zizzo G, et al. **Radiol Med (Torino)** 1997 Mar;93(3):317-9 **(Ita)**

[Clinical and immunological study of airway disease in collagen vascular disease] Hayakawa H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:264-7 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

A cost-effective approach to the diagnosis and treatment of the wheezing infant. Mamlok R. **Allergy Asthma Proc** 1997 May-Jun;18(3):149-52 (20 ref.)

Elevated levels of cytokeratin 19 in the bronchoalveolar lavage fluid of patients with chronic airway inflammatory diseases--a specific marker for bronchial epithelial injury. Nakamura H, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1217-21

A case of diffuse panbronchiolitis. Hu H, et al. **Chin Med J (Engl)** 1996 Dec;109(12):949-52

Human T-cell lymphotropic virus type I (HTLV-I) carrier with clinical manifestations characteristic of diffuse panbronchiolitis. Kikuchi T, et al. **Intern Med** 1996 Apr; 35(4):305-9

Serum eosinophil cationic protein as a predictor of wheezing after bronchiolitis. Reijonen TM, et al. **Pediatr Pulmonol** 1997 Jun;23(6):397-403

On HRCT-guided lung biopsy [letter; comment] Spencer DA, et al. **Pediatr Pulmonol** 1997 Feb;23(2):127-8. Comment on: Pediatr Pulmonol 1996 Aug;22(2):81-2. Comment on: Pediatr Pulmonol 1996 Aug;22(2):83-4.

[Bronchiolitis: revision of 153 cases and comparative study of ribavirin treatment] Colinas Herrero J, et al. **An Esp Pediatr** 1997 Feb;46(2):143-7 (Eng. Abstr.) **(Spa)**

[The spectrum of bronchiolitis] Fernández Francés J, et al. **An Med Interna** 1997 Feb;14(2):89-92 (22 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Effect of oral and inhaled salbutamol in infants with bronchiolitis. Cengizlier R, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):61-3

Effect of clarithromycin on lymphocytes in chronic respiratory Pseudomonas aeruginosa infection. Yanagihara K, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):337-42

Anti-inflammatory therapy reduces wheezing after bronchiolitis [letter; comment] Hakim A. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):108-9. Comment on: Arch Pediatr Adolesc Med 1996 May;150(5):512-7.

Efficacy of bronchodilator therapy in bronchiolitis. A meta-analysis [see comments] Kellner JD, et al. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1166-72. Comment in: Arch Pediatr Adolesc Med 1996 Nov;150(11):1120-1.

Determining the benefit of bronchodilators in bronchiolitis. When is there enough benefit to warrant adoption into clinical practice? [editorial; comment] Klassen TP. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1120-1. Comment on: Arch Pediatr Adolesc Med 1996 Nov;150(11):1166-72.

Dexamethasone in salbutamol-treated inpatients with acute bronchiolitis: a randomized, controlled trial [see comments] Klassen TP, et al. **J Pediatr** 1997 Feb;130(2):191-6. Comment in: J Pediatr 1997 Feb;130(2):170-2.

Efficacy of epinephrine with salbutamol in treatment of acute bronchiolitis [letter; comment] Rusconi F, et al. **J Pediatr** 1996 Mar;128(3):441-3. Comment on: J Pediatr 1995 Jun;126(6):1004-7.

Therapy for bronchiolitis: help wanted [editorial; comment] Welliver RC. **J Pediatr** 1997 Feb;130(2):170-2 (18 ref.). Comment on: J Pediatr 1997 Feb;130(2):191-6.

Recent advances in the treatment of bronchiolitis and laryngitis. Klassen TP. **Pediatr Clin North Am** 1997 Feb; 44(1):249-61 (64 ref.)

Follow-up of children with respiratory syncytial virus bronchiolitis in 1986 and 1987: potential effect of ribavirin on long term pulmonary function. The Bronchiolitis Study Group. Krilov LR, et al. **Pediatr Infect Dis J** 1997 Mar; 16(3):273-6

Efficacy of beta2-agonists in bronchiolitis: a reappraisal and meta-analysis. Flores G, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):233-9

Diffuse panbronchiolitis in an Asian immigrant. Brugiere O, et al. **Thorax** 1996 Oct;51(10):1065-7

The role of corticosteroids in bronchiolitis and croup [editorial; comment] Milner AD. **Thorax** 1997 Jul; 52(7):595-7. Comment on: Thorax 1997 Jul;52(7):634-7.

[Acute bronchiolitis due to Mycoplasma pneumoniae and successfully treated with steroids] Mashimoto H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Nov; 34(11):1277-82 (Eng. Abstr.) **(Jpn)**

[Bronchiolitis: revision of 153 cases and comparative study of ribavirin treatment] Colinas Herrero J, et al. **An Esp Pediatr** 1997 Feb;46(2):143-7 (Eng. Abstr.) **(Spa)**

ECONOMICS

A cost-effective approach to the diagnosis and treatment of the wheezing infant. Mamlok R. **Allergy Asthma Proc** 1997 May-Jun;18(3):149-52 (20 ref.)

EPIDEMIOLOGY

Coincidence of public transport strike with bronchiolitis epidemic [letter] Thélot B, et al. **Lancet** 1996 Dec 21-28; 348(9043):1743-4

Acute bronchiolitis in tropical Africa: a hospital-based perspective in Ibadan, Nigeria. Johnson AW, et al. **Pediatr Pulmonol** 1996 Oct;22(4):236-47

Risk factors of acute lower respiratory tract infections in children under five years of age. Dharmage SC, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):107-10

ETHNOLOGY

Diffuse panbronchiolitis in the United States [letter; comment] Tsang KW, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2114. Comment on: Am J Respir Crit Care Med 1996 Aug;154(2 Pt 1):497-503.

ETIOLOGY

Importance of diffuse aspiration bronchiolitis caused by chronic occult aspiration in the elderly. Matsuse T, et al. **Chest** 1996 Nov;110(5):1289-93

Risk factors for bronchiolitis: presentation of an on-going prospective clinical study. Thompson ME, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S85-6

Morphological studies of the respiratory syncytial virus induced bronchiolitis in experimentally infected calves. Philippou S, et al. **Pathol Res Pract** 1996 Oct; 192(10):1045-56

The critical first six months in cystic fibrosis: a syndrome of severe bronchiolitis. Katznelson D, et al. **Pediatr Pulmonol** 1997 Aug;24(2):134-6; discussion 159-61

[Successful treatment of diffuse aspiration bronchiolitis by cricopharyngeal myotomy] Inoue T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):926-30 (Eng. Abstr.) **(Jpn)**

[Follicular bronchiolitis associated with rheumatoid arthritis] Morita S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug;34(8):921-5 (Eng. Abstr.) **(Jpn)**

GENETICS

Restriction fragment length polymorphism analysis in the HLA class III genes of patients with diffuse panbronchiolitis. Tomita Y, et al. **Intern Med** 1996 Sep; 35(9):693-7

IMMUNOLOGY

A study of bronchus-associated lymphoid tissue in a rat model of chronic pulmonary infection with Pseudomonas aeruginosa. Kitazawa H, et al. **Kansenshogaku Zasshi** 1997 Mar;71(3):214-21

[Clinical and immunological study of airway disease in collagen vascular disease] Hayakawa H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:264-7 (Eng. Abstr.) **(Jpn)**

METABOLISM

Interleukin 1 beta, tumor necrosis factor alpha, and interleukin 8 in bronchoalveolar lavage fluid of patients with diffuse panbronchiolitis: a potential mechanism of macrolide therapy. Sakito O, et al. **Respiration** 1996; 63(1):42-8

MICROBIOLOGY

The nPCR detection of Chlamydia pneumoniae and Chlamydia trachomatis in children hospitalized for bronchiolitis. Khan MA, et al. **J Infect** 1996 Nov; 33(3):173-5

Opportunistic lung infection with Corynebacterium pseudodiphtheriticum after lung and heart transplantation. Burke GJ, et al. **Med J Aust** 1997 Apr 7;166(7):362-4

Continuous isolation and characterization of Chlamydia pneumoniae from a patient with diffuse panbronchiolitis. Miyashita N, et al. **Microbiol Immunol** 1996;40(8):547-52

Prospective comparative study of viral, bacterial and atypical organisms identified in pneumonia and bronchiolitis in hospitalized Canadian infants. Davies HD, et al. **Pediatr Infect Dis J** 1996 Apr;15(4):371-5

[Acute bronchiolitis due to Mycoplasma pneumoniae and successfully treated with steroids] Mashimoto H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Nov; 34(11):1277-82 (Eng. Abstr.) **(Jpn)**

PARASITOLOGY

Pulmonary cryptosporidiosis in the acquired immunodeficiency syndrome. Meynard JL, et al. **Infection** 1996 Jul–Aug;24(4):328–31

PATHOLOGY

Phenotypic characterization of T cells in bronchoalveolar lavage fluid (BALF) and peripheral blood of patients with diffuse panbronchiolitis; the importance of cytotoxic T cells. Kawakami K, et al. **Clin Exp Immunol** 1997 Feb; 107(2):410–6

Neutrophil chemotactic activity in bronchoalveolar lavage fluid recovered from patients with diffuse panbronchiolitis. Katsuki M. **Kurume Med J** 1996;43(4):279–87

Morphological studies of the respiratory syncytial virus induced bronchiolitis in experimentally infected calves. Philippou S, et al. **Pathol Res Pract** 1996 Oct; 192(10):1045–56

Immunopathological changes in the airways of stable lung transplant recipients. Snell GI, et al. **Thorax** 1997 Apr; 52(4):322–8

PHYSIOPATHOLOGY

Respiratory status and allergy nine to 10 years after acute bronchiolitis. Noble V, et al. **Arch Dis Child** 1997 Apr; 76(4):315–9

Airway disease: anatomopathologic patterns and functional correlations. Mormile F, et al. **Rays** 1997 Jan–Mar; 22(1):107–26 (51 ref.) **(Eng, Ita)**

RADIOGRAPHY

Inspiratory and expiratory high-resolution CT findings in a patient with Sjögren's syndrome and cystic lung disease. Meyer CA, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):101–3

Imaging of small airways disease, with emphasis on high resolution computed tomography. Zompatori M, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):242–8 (47 ref.)

SURGERY

[Successful treatment of diffuse aspiration bronchiolitis by cricopharyngeal myotomy] Inoue T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):926–30 (Eng. Abstr.) **(Jpn)**

THERAPY

Respiratory syncytial virus immune globulin intravenous. Wandstrat TL. **Ann Pharmacother** 1997 Jan;31(1):83–8 (36 ref.)

Respiratory syncytial virus (RSV) immune globulin intravenous therapy for RSV lower respiratory tract infection in infants and young children at high risk for severe RSV infections: Respiratory Syncytial Virus Immune Globulin Study Group [see comments] Rodriguez WJ, et al. **Pediatrics** 1997 Mar;99(3):454–61. Comment in: Pediatrics 1997 Mar;99(3):472–5.

[Management of acute bronchiolitis in infants. Proposal of the Evaluation Committee of the French Group for pediatric intensive care and emergency] **Arch Pediatr** 1996 Nov;3(11):1191–2 **(Fre)**

[A case of fluminant Mycoplasma pneumonia and bronchiolitis managed by artificial respiration] Jingu K, et al. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1039–41 **(Jpn)**

VIROLOGY

Respiratory syncytial virus bronchiolitis. Jeng MJ, et al. **Am Fam Physician** 1997 Mar;55(4):1139–46, 1149–50 (30 ref.)

Persistence of respiratory syncytial virus (RSV) infection and development of RSV-specific IgG1 response in a guinea-pig model of acute bronchiolitis. Dakhama A, et al. **Eur Respir J** 1997 Jan;10(1):20–6

Identification of mutations contributing to the reduced virulence of a modified strain of respiratory syncytial virus. Tolley KP, et al. **Vaccine** 1996 Dec;14(17–18):1637–46

BRONCHIOLITIS, EXUDATIVE see **BRONCHIOLITIS OBLITERANS**

BRONCHIOLITIS OBLITERANS

Lung transplant rejection: obliterative bronchiolitis. Spector NM, et al. **Am J Crit Care** 1996 Sep;5(5):366–72 (39 ref.)

Progression of obliterative airway disease occurs despite the removal of immune reactivity by retransplantation. Brazelton TR, et al. **Transplant Proc** 1997 Sep;29(6):2613

A new large animal heterotopic lung and bronchial allograft model for research in obliterative bronchiolitis. Ikonen T, et al. **Transplant Proc** 1997 Sep;29(6):2611–2

CHEMICALLY INDUCED

Bronchiolitis obliterans in a patient with localized scleroderma treated with D-penicillamine. Boehler A, et al. **Eur Respir J** 1996 Jun;9(6):1317–9 (28 ref.)

COMPLICATIONS

Bronchiolar disease in rheumatoid arthritis. Hayakawa H, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1531–6

Bronchiolitis obliterans and IgA nephropathy. A new cause of pulmonary–renal syndrome. Hernández JI, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):665–8 (22 ref.)

Cytomegalovirus infection enhances experimental obliterative bronchiolitis in rat tracheal allografts. Koskinen PK, et al. **Am J Respir Crit Care Med** 1997 Jun; 155(6):2078–88

Fatal pneumothorax complicating BAL in a bone marrow transplant recipient with bronchiolitis obliterans [letter] Cazzadori A, et al. **Chest** 1997 May;111(5):1468–9

Bronchiolitis obliterans presenting as subcutaneous emphysema and pneumomediastinum: a case report. Toren A, et al. **Med Oncol** 1996 Dec;13(4):195–7

Single lung transplantation for chronic obstructive pulmonary disease: pulmonary function and impact of bronchiolitis obliterans syndrome. Bjørtuft O, et al. **Respir Med** 1996 Oct;90(9):553–9

Bronchiolitis obliterans in a patient with HIV infection. Díaz F, et al. **Respir Med** 1997 Mar;91(3):171–3 (14 ref.)

DIAGNOSIS

Bronchiolitis obliterans syndrome in heart–lung transplantation: surveillance biopsies. Tamm M, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1705–10

A wheezy infant unresponsive to bronchodilators [clinical conference] Go RO, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):449–56

Bronchiolitis obliterans organizing pneumonia associated with chlamydial infection. Diehl JL, et al. **Eur Respir J** 1996 Jun;9(6):1320–2

[Bronchiolitis obliterans and no radiographic abnormalities in a patient with rheumatoid arthritis] Kagamu H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):524–9 (Eng. Abstr.) **(Jpn)**

[Difference between BO and BOOP! Two lung diseases that are often mixed up] Haeggström F, et al. **Lakartidningen** 1997 Apr 2;94(14):1287–91 (17 ref.) **(Swe)**

DRUG THERAPY

Methotrexate can halt the progression of bronchiolitis obliterans syndrome in lung transplant recipients. Dusmet M, et al. **J Heart Lung Transplant** 1996 Sep;15(9):948–54

Salvage therapy with mycophenolate mofetil for lung transplant bronchiolitis obliterans: importance of dosage. Speich R, et al. **Transplantation** 1997 Aug 15;64(3):533–5

[Bronchiolitis obliterans preceding rheumatoid arthritis: effect of clarithromycin] Iwata M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Nov; 34(11):1271–6 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Association of Sauropus androgynus and bronchiolitis obliterans syndrome: a hospital-based case-control study. Ger LP, et al. **Am J Epidemiol** 1997 May 1;145(9):842–9

Seasonal onset of bronchiolitis obliterans syndrome in lung transplant recipients. Hohlfeld J, et al. **J Heart Lung Transplant** 1996 Sep;15(9):888–94

ETIOLOGY

Histopathological study of Sauropus androgynus-associated constrictive bronchiolitis obliterans: a new cause of constrictive bronchiolitis obliterans. Chang H, et al. **Am J Surg Pathol** 1997 Jan;21(1):35–42

Stanford experience with obliterative bronchiolitis after lung and heart–lung transplantation. Reichenspurner H, et al. **Ann Thorac Surg** 1996 Nov;62(5):1467–72; discussion 1472–3

Thalidomide-responsive chronic pulmonary GVHD [letter; comment] Chen F, et al. **Bone Marrow Transplant** 1997 Jan;19(1):95–6. Comment on: Bone Marrow Transplant 1996 Feb;17(2):291–3.

Bronchiolitis obliterans and wood-burning stoves [editorial; comment] Hogg JC. **Can Med Assoc J** 1997 Apr 15; 156(8):1147–8. Comment on: Can Med Assoc J 1997 Apr 15;156(8):1171–3.

Bronchiolitis obliterans in a man who used his wood-burning stove to burn synthetic construction materials [see comments] Janigan DT, et al. **Can Med Assoc J** 1997 Apr 15;156(8):1171–3. Comment in: Can Med Assoc J 1997 Apr 15;156(8):1147–8.

Obliterative bronchiolitis. Kelly K, et al. **Clin Chest Med** 1997 Jun;18(2):319–38 (156 ref.)

Rapidly progressive interstitial lung disease associated with dermatomyositis responding to intravenous cyclophosphamide pulse therapy [see comments] Shinohara T, et al. **Intern Med** 1997 Jul;36(7):519–23. Comment in: Intern Med 1997 Jul;36(7):448–9.

Risk factors for the development of obliterative bronchiolitis after lung transplantation. Girgis RE, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1200–8

Risk factors for the development of bronchiolitis obliterans syndrome after lung transplantation. Kroshus TJ, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):195–202

Posttransplantation physiologic features of the lung and obliterative bronchiolitis. Scott JP, et al. **Mayo Clin Proc** 1997 Feb;72(2):170–4 (33 ref.)

Reverse ventilation/perfusion mismatch. Kao CH. **Semin Nucl Med** 1997 Apr;27(2):183–5

Cytomegalovirus infection accelerates obliterative bronchiolitis of rat tracheal allografts. Lemström K, et al. **Transpl Int** 1996;9 Suppl 1:S221–2

Bronchiolitis obliterans syndrome (BOS) following heart–lung transplantation. Tamm M, et al. **Transpl Int** 1996;9 Suppl 1:S299–302

Immunohistochemical localization of nitric oxide synthase and the oxidant peroxynitrite in lung transplant recipients with obliterative bronchiolitis. McDermott CD, et al. **Transplantation** 1997 Jul 27;64(2):270–4

Obliterative airway disease after heterotopic tracheal xenotransplantation: pathogenesis and prevention using new immunosuppressive agents. Reichenspurner H, et al. **Transplantation** 1997 Aug 15;64(3):373–83

Bronchiolitis obliterans in ataxia-telangiectasia. Ito M, et al. **Virchows Arch** 1997 Feb;430(2):131–7

[Graft dysfunction, acute rejection and bronchiolitis obliterans in lung and heart–lung transplantation] Sleiman C, et al. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S31–40 (66 ref.) (Eng. Abstr.) **(Fre)**

[Follicular bronchiolitis associated with rheumatoid arthritis] Morita S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug;34(8):921–5 (Eng. Abstr.) **(Jpn)**

GENETICS

Experimental bronchiolitis obliterans induced by in vivo HVJ-liposome-mediated endothelin-1 gene transfer [see comments] Takeda S, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1562–7. Comment in: Ann Thorac Surg 1997 Jun;63(6):1527–8.

IMMUNOLOGY

Severe erosive stomatitis: association with immunological diseases? Reynaers A, et al. **Dermatology** 1997;194(4):411–5 (24 ref.)

[Alveolar lavage cytological data in lung transplants free of bronchial superinfection. Toulouse Lung Transplantation Group] Courtade M, et al. **Rev Mal Respir** 1996; 13(4):413–20 (Eng. Abstr.) **(Fre)**

MICROBIOLOGY

Bronchitis obliterans due to Mycoplasma pneumonia. Leong MA, et al. **Pediatr Pulmonol** 1997 May;23(5):375–81 (19 ref.)

PATHOLOGY

Bronchiolitis obliterans due to neuroendocrine hyperplasia: high-resolution CT—pathologic correlation. Brown MJ, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1561–2

Bronchiolar disease in rheumatoid arthritis. Hayakawa H, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1531–6

Histopathological study of Sauropus androgynus-associated constrictive bronchiolitis obliterans: a new cause of constrictive bronchiolitis obliterans. Chang H, et al. **Am J Surg Pathol** 1997 Jan;21(1):35–42

Bronchiolitis obliterans and wood-burning stoves [editorial; comment] Hogg JC. **Can Med Assoc J** 1997 Apr 15; 156(8):1147–8. Comment on: Can Med Assoc J 1997 Apr 15;156(8):1171–3.

Bronchiolitis obliterans in a man who used his wood-burning stove to burn synthetic construction materials [see comments] Janigan DT, et al. **Can Med Assoc J** 1997 Apr 15;156(8):1171–3. Comment in: Can Med Assoc J 1997 Apr 15;156(8):1147–8.

Iron accumulation in lung allografts after transplantation. Baz MA, et al. **Chest** 1997 Aug;112(2):435–9

The potential role of mast cells in lung allograft rejection. Yousem SA. **Hum Pathol** 1997 Feb;28(2):179–82

Bronchoalveolar lavage neutrophilia is associated with obliterative bronchiolitis after lung transplantation: role of IL-8. DiGiovine B, et al. **J Immunol** 1996 Nov 1; 157(9):4194–202

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 31–1997. A 67-year-old renal–transplant recipient with anemia, leukopenia, and pulmonary lesions [clinical conference] **N Engl J Med** 1997 Oct 9;337(15):1065–74

Infiltrating recipient mesenchymal cells form the obliterative airway disease lesion and dramatically remodel graft tissue in a model of chronic lung rejection. Brazelton TR, et al. **Transplant Proc** 1997 Sep;29(6):2614

Preferential production of IgG2 antibodies by parenchymal lung B-lymphocytes during lung allograft rejection. Wilkes DS, et al. **Transplant Proc** 1997 May;29(3):1891–5

Apoptosis in bronchiolitis obliterans, chronic rejection and infection after lung transplantation in rats. Yagyu K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1532–5

Lymphocytic airway infiltration as a precursor to fibrous obliteration in a rat model of bronchiolitis obliterans. Boehler A, et al. **Transplantation** 1997 Jul 27;64(2):311–7

Bronchiolitis obliterans in ataxia-telangiectasia. Ito M, et al. **Virchows Arch** 1997 Feb;430(2):131–7

PHYSIOPATHOLOGY

Pulmonary retransplantation: does the indication for operation influence postoperative lung function? Novick RJ, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1504–13; discussion 1513–4

Cytomegalovirus infection accelerates experimental

BRONCHIOLITIS OBLITERANS

obliterative bronchiolitis via platelet-derived growth factor upregulation. Koskinen P, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):798

PREVENTION & CONTROL

A dose-dependent inhibitory effect of cyclosporine A on obliterative bronchiolitis of rat tracheal allografts. Koskinen PK, et al. **Am J Respir Crit Care Med** 1997 Jan; 155(1):303-12

Antiproliferative effect of rapamycin on growth factor-stimulated human adult lung fibroblasts in vitro may explain its superior efficacy for prevention and treatment of allograft obliterative airway disease in vivo. Nair RV, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):614-5

Rapamycin inhibits development of obliterative airway disease in a murine heterotopic airway transplant model. Fahrni JA, et al. **Transplantation** 1997 Feb 27;63(4):533-7

Cyclosporine reduces development of obliterative bronchiolitis in a murine heterotopic airway model. King MB, et al. **Transplantation** 1997 Feb 27;63(4):528-32

RADIOGRAPHY

Bronchiolitis obliterans due to neuroendocrine hyperplasia: high-resolution CT--pathologic correlation. Brown MJ, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1561-2

Bronchiolitis obliterans after lung transplantation: high-resolution CT findings in 15 patients. Worthy SA, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):673-7

Correlation of high-resolution CT and pulmonary function in bronchiolitis obliterans: a study based on 24 patients associated with consumption of Sauropus androgynus. Yang CF, et al. **AJR Am J Roentgenol** 1997 Apr; 168(4):1045-50

Small airways disease: expiratory computed tomography comes of age. Desai SR, et al. **Clin Radiol** 1997 May; 52(5):332-7 (6 ref.)

Value of high-resolution computed tomography in routine evaluation of lung transplantation recipients during development of bronchiolitis obliterans syndrome. Ikonen T, et al. **J Heart Lung Transplant** 1996 Jun;15(6):587-95

Obliterative bronchiolitis: individual CT signs of small airways disease and functional correlation. Hansell DM, et al. **Radiology** 1997 Jun;203(3):721-6

[Unilateral lung transradiency. Swyer-James or MacLeod syndrome] Köcher M, et al. **Radiologe** 1997 Jun;37(6):486-9 **(Ger)**

SURGERY

Pulmonary retransplantation: does the indication for operation influence postoperative lung function? Novick RJ, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1504-13; discussion 1513-4

THERAPY

Pregnancy following a single lung transplant. Parry D, et al. **Thorax** 1996 Nov;51(11):1162-4; discussion 1164-5

BRONCHIOLITIS OBLITERANS ORGANIZING PNEUMONIA

[Bronchiolitis obliterans organizing pneumonia (BOOP)--a leading disease in pneumology in the last decade] Onea G. **Pneumoftiziologia** 1996 Jul-Dec;45(3-4):165-8 (16 ref.) **(Rum)**

CHEMICALLY INDUCED

Bronchiolitis obliterans organizing pneumonia during low-dose amiodarone therapy. Jessurun GA, et al. **Clin Cardiol** 1997 Mar;20(3):300-2

Bronchiolitis obliterans organizing pneumonia secondary to amiodarone: clinical, radiological and histological pattern. Conte SC, et al. **Monaldi Arch Chest Dis** 1997 Feb; 52(1):24-6

CLASSIFICATION

Should cryptogenic organizing pneumonia be included in the classification of pulmonary allograft rejection? [letter] Hasleton PS, et al. **J Heart Lung Transplant** 1996 Dec; 15(12):1268-9

COMPLICATIONS

Inflammatory myopathy, bronchiolitis obliterans/organizing pneumonia, and anti-Jo-1 antibodies--an interesting association. Kalenian M, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):236-40

Bronchiolitis obliterans organizing pneumonia associated with systemic lupus erythematosus with antiphospholipid antibody. Otsuka F, et al. **Intern Med** 1996 Apr;35(4):341-4

Bronchiolitis obliterans organizing pneumonia as the first manifestation of polymyositis. Fata F, et al. **South Med J** 1997 Feb;90(2):227-30

DIAGNOSIS

Hemoptysis as the presenting symptom in bronchiolitis obliterans organizing pneumonia. Mroz BJ, et al. **Chest** 1997 Jun;111(6):1775-8 (11 ref.)

Bronchiolitis obliterans organizing pneumonia in three children with acute leukaemias treated with cytosine arabinoside and anthracyclines. Battistini E, et al. **Eur Respir J** 1997 May;10(5):1187-90

A case of bronchiolitis obliterans organizing pneumonia associated with adenovirus. Jeon JS, et al. **Korean J Intern Med** 1997 Jan;12(1):70-4

Bronchoalveolar lavage, histological and immunohistochemical features in cryptogenic organizing pneumonia. Poletti V, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):289-95

A case of unilateral bronchiolitis obliterans organizing pneumonia (BOOP). Kanwar BA, et al. **Nebr Med J** 1996 May;81(5):149-51

Bronchiolitis obliterans organizing pneumonia in a child with acquired immunodeficiency syndrome. Zahraa J, et al. **Pediatr Infect Dis J** 1996 May;15(5):448-51

[Multiple migratory pulmonary opacities] Orliaguet O, et al. **Rev Mal Respir** 1996 Oct;13(5):531-2 **(Fre)**

[A patient with idiopathic bronchiolitis obliterans with organizing pneumonia and idiopathic CD4+ T-lymphocytopenia] Pohl W. **Wien Klin Wochenschr** 1996; 108(15):473-7 (Eng. Abstr.) **(Ger)**

[Bronchiolitis obliterans with organizing pneumonia--an acquired disease picture with increased clinical significance (editorial)] Vetter N, et al. **Wien Klin Wochenschr** 1996; 108(15):454-6 **(Ger)**

[Bronchiolitis obliterans with idiopathic organized pneumonia. Apropos of 4 cases] Arnedillo Muñoz A, et al. **An Med Interna** 1995 Aug;12(8):397-400 (Eng. Abstr.) **(Spa)**

[Difference between BO and BOOP! Two lung diseases that are often mixed up] Haeggström F, et al. **Lakartidningen** 1997 Apr 2;94(14):1287-91 (17 ref.) **(Swe)**

DRUG THERAPY

Cyclophosphamide in severe steroid-resistant bronchiolitis obliterans organizing pneumonia. Purcell IF, et al. **Respir Med** 1997 Mar;91(3):175-7

[Rapidly progressing BOOP in a patient with positive anti-Jo-1 antibody: response to corticosteroid pulse and immunosuppressant therapy] Ikuta N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1156-62 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Organizing pneumonia. Features and prognosis of cryptogenic, secondary, and focal variants. Lohr RH, et al. **Arch Intern Med** 1997 Jun 23;157(12):1323-9

Bronchiolitis obliterans organizing pneumonia after syngeneic bone marrow transplantation for acute lymphoblastic leukemia. Kanda Y, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1251-3

Bronchiolitis obliterans organizing pneumonia and chronic graft-versus-host disease in a child after allogeneic bone marrow transplantation. Kleinau I, et al. **Bone Marrow Transplant** 1997 Apr;19(8):841-4

Bronchiolitis obliterans organizing pneumonia (BOOP) in lung transplant recipients. Chaparro C, et al. **Chest** 1996 Nov;110(5):1150-4

Bronchiolitis obliterans organizing pneumonia in three children with acute leukaemias treated with cytosine arabinoside and anthracyclines. Battistini E, et al. **Eur Respir J** 1997 May;10(5):1187-90

Bronchiolitis obliterans organizing pneumonia associated with systemic lupus erythematosus with antiphospholipid antibody. Otsuka F, et al. **Intern Med** 1996 Apr;35(4):341-4

BOOP (bronchiolitis obliterans organizing pneumonia) after renal transplantation. Verberckmoes R, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1862-3

Bronchiolitis obliterans organizing pneumonia after adjuvant radiotherapy for breast carcinoma. van Laar JM, et al. **Respir Med** 1997 Apr;91(4):241-4

[Subsets of lymphocytes in bronchoalveolar-lavage fluid from patients with idiopathic bronchiolitis obliterans organizing pneumonia] Kusumoto H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):529-35 (Eng. Abstr.) **(Jpn)**

[Mixed connective tissue disease: progress in diagnosis and treatment. III. Treatment. 3. Clinical aspects of specific conditions and treatment. 3) Interstitial pulmonary lesions and serositis] Hirakata M, et al. **Nippon Naika Gakkai Zasshi** 1996 Aug 10;85(8):1248-53 (6 ref.) **(Jpn)**

[Bronchiolitis obliterans organizing pneumonia (BOOP) after allogeneic bone marrow transplantation] Nakayama M, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1271-5 (Eng. Abstr.) **(Jpn)**

[A case of rheumatoid arthritis associated with pernicious anemia and bronchiolitis obliterans organizing pneumonia] Itoh H, et al. **Ryumachi** 1995 Dec;35(6):920-6 (29 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Increased expression of the interleukin-10 gene by alveolar macrophages in interstitial lung disease. Martinez JA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L676-83

Platelet-derived growth factor in bronchiolitis obliterans-organizing pneumonia. Aubert JD, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):676-81

Inflammatory myopathy, bronchiolitis obliterans/organizing pneumonia, and anti-Jo-1 antibodies--an interesting association. Kalenian M, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):236-40

[Rapidly progressing BOOP in a patient with positive anti-Jo-1 antibody: response to corticosteroid pulse and immunosuppressant therapy] Ikuta N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1156-62 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

A malicious mould. Bates C, et al. **Lancet** 1997 May 31; 349(9065):1598

PATHOLOGY

Platelet-derived growth factor in bronchiolitis obliterans-organizing pneumonia. Aubert JD, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):676-81

CT-guided biopsy of peripheral lung lesions associated with BOOP. Haviv YS, et al. **Eur J Med Res** 1997 Jan;2(1):44-6

The diagnostic value of bronchoalveolar lavage and transbronchial lung biopsy in cryptogenic organizing pneumonia. Poletti V, et al. **Eur Respir J** 1996 Dec; 9(12):2513-6

Idiopathic bronchiolitis obliterans organizing pneumonia (idiopathic BOOP) in childhood. Inoue T, et al. **Pediatr Pulmonol** 1996 Jul;22(1):67-72

Bronchiolitis obliterans organizing pneumonia as the first manifestation of polymyositis. Fata F, et al. **South Med J** 1997 Feb;90(2):227-30

[A case of polymyositis presenting histological picture of bronchiolitis obliterans organizing pneumonia with transbronchial lung biopsy specimens] Nagai Y, et al. **Ryumachi** 1995 Dec;35(6):915-9 (Eng. Abstr.) **(Jpn)**

[Fever, pleural effusion, and eosinophilia in a 48-year-old immunocompetent male (clinical conference)] **Rev Clin Esp** 1997 Mar;197(3):186-94 **(Spa)**

RADIOGRAPHY

Crescentic and ring-shaped opacities. CT features in two cases of bronchiolitis obliterans organizing pneumonia (BOOP). Voloudaki AE, et al. **Acta Radiol** 1996 Nov; 37(6):889-92

CT-guided biopsy of peripheral lung lesions associated with BOOP. Haviv YS, et al. **Eur J Med Res** 1997 Jan;2(1):44-6

General case of the day. Bronchiolitis obliterans with organizing pneumonia. Snyder BJ, et al. **Radiographics** 1996 Mar;16(2):456-8

[Bronchiolitis obliterans with organizing pneumonia (BOOP). Clinical aspects, pathology and radiologic images] Gissler HM, et al. **Radiologe** 1996 Jul;36(7):560-6 (Eng. Abstr.) **(Ger)**

THERAPY

Organizing pneumonia. Features and prognosis of cryptogenic, secondary, and focal variants. Lohr RH, et al. **Arch Intern Med** 1997 Jun 23;157(12):1323-9

VIROLOGY

Respiratory reovirus 1/L induction of intraluminal fibrosis. A model for the study of bronchiolitis obliterans organizing pneumonia. Bellum SC, et al. **Am J Pathol** 1997 Jun; 150(6):2243-54

A case of bronchiolitis obliterans organizing pneumonia associated with adenovirus. Jeon JS, et al. **Korean J Intern Med** 1997 Jan;12(1):70-4

BRONCHIOLITIS, PROLIFERATIVE see **BRONCHIOLITIS OBLITERANS**

BRONCHIOLITIS, VIRAL

COMPLICATIONS

Association between pronounced IgA response in RSV bronchiolitis and development of allergic sensitization. Strannegård O, et al. **Pediatr Allergy Immunol** 1997 Feb; 8(1):1-6

DIAGNOSIS

A monoclonal antibody pool for routine immunohistochemical detection of human respiratory syncytial virus antigens in formalin-fixed, paraffin-embedded tissue. Wright C, et al. **J Pathol** 1997 Jun;182(2):238-44

Clinical mythology: acute bronchiolitis [letter; comment] Dugdale A. **Lancet** 1996 Sep 28;348(9031):902. Comment on: Lancet 1996 Aug 3;348(9023):279-80.

Bronchiolitis. Bar-on ME, et al. **Prim Care** 1996 Dec; 23(4):805-19 (64 ref.)

Bronchiolitis and asthma in infancy and early childhood. Godfrey S. **Thorax** 1996 Aug;51 Suppl 2:S60-4 (34 ref.)

DRUG THERAPY

Ribavirin and bronchiolitis: variation in use in the UK [letter] Allport TD, et al. **Arch Dis Child** 1997 Apr;76(4):385

Aerosols for the intubated: cultivating the rose [editorial; comment] Manthous CA. **Chest** 1997 Aug;112(2):303-4. Comment on: Chest 1997 Aug;112(2):484-90.

Efficacy of metered-dose inhaler administration of albuterol in intubated infants [see comments] Torres A Jr, et al.

Chest 1997 Aug;112(2):484–90. Comment in: Chest 1997 Aug;112(2):303–4.

Treatment of respiratory syncytial virus bronchiolitis: 1995 poll of members of the European Society for Paediatric Infectious Diseases. Kimpen JL, et al. **Pediatr Infect Dis J** 1997 May;16(5):479–81

Randomised double blind placebo controlled trial of prednisolone in children admitted to hospital with respiratory syncytial virus bronchiolitis [see comments] van Woensel JB, et al. **Thorax** 1997 Jul;52(7):634–7. Comment in: Thorax 1997 Jul;52(7):595–7.

[Conflicting therapeutic aspects during acute bronchiolitis in infants] Dutau G, et al. **Arch Pediatr** 1997;4(2 Suppl 2):72s–77s (59 ref.) **(Fre)**

EPIDEMIOLOGY

Acute bronchiolitis in tropical Africa: a hospital-based perspective in Ibadan, Nigeria. Johnson AW, et al. **Pediatr Pulmonol** 1996 Oct;22(4):236–47

[Acute bronchiolitis in infants: tolerance or intolerance (editorial)] Bourrillon A, et al. **Arch Pediatr** 1997 Feb; 4(2):111–5 **(Fre)**

IMMUNOLOGY

Increase in CD23+ B cells in infants with bronchiolitis is accompanied by appearance of IgE and IgG4 antibodies specific for respiratory syncytial virus. Rabatić S, et al. **J Infect Dis** 1997 Jan;175(1):32–7

Cellular immunity is activated and a TH-2 response is associated with early wheezing in infants after bronchiolitis. Renzi PM, et al. **J Pediatr** 1997 Apr;130(4):584–93

METABOLISM

Surfactant abnormalities in infants with severe viral bronchiolitis [see comments] Dargaville PA, et al. **Arch Dis Child** 1996 Aug;75(2):133–6. Comment in: Arch Dis Child Fetal Neonatal Ed 1997 Jul;77(1):F78.

Surfactant abnormalities in infants with severe viral bronchiolitis [letter; comment] Nelson JK. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F78. Comment on: Arch Dis Child 1996 Aug;75(2):133–6.

PATHOLOGY

Increased airway reactivity in human RSV bronchiolitis in the guinea pig is not due to increased wall thickness. Robinson PJ, et al. **Pediatr Pulmonol** 1996 Oct;22(4):248–54

PHYSIOPATHOLOGY

Infant respiratory function after RSV-proven bronchiolitis. Dezateux C, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1349–55

Chronic, episodic, reversible airway obstruction after viral bronchiolitis in rats. Kumar A, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):130–4

Persistence of airway hyperresponsiveness and viral antigen following respiratory syncytial virus bronchiolitis in young guinea-pigs. Riedel F, et al. **Eur Respir J** 1997 Mar; 10(3):639–45

Increased airway reactivity in human RSV bronchiolitis in the guinea pig is not due to increased wall thickness. Robinson PJ, et al. **Pediatr Pulmonol** 1996 Oct;22(4):248–54

THERAPY

Bronchiolitis. Bar-on ME, et al. **Prim Care** 1996 Dec; 23(4):805–19 (64 ref.)

[Clinical, therapeutic and developmental aspects of acute bronchiolitis in Tunisia] Ben Jaballah N, et al. **Cah Anesthesiol** 1996;44(5):423–8 (Eng. Abstr.) **(Fre)**

VIROLOGY

[Apropos of a case of respiratory syncytial virus broncho-alveolitis] Bellagra N, et al. **Ann Biol Clin (Paris)** 1997 May-Jun;55(3):243 **(Fre)**

BRONCHITIS

Case records of the Cincinnati Children's Hospital Medical Center: a nine year old with a sore throat and anxiety regarding his breathing [clinical conference] Dowd MD, et al. **Pediatr Emerg Care** 1997 Feb;13(1):57–60

[Chronic obstructive bronchitis (its definition, etiology, pathogenesis, clinical picture and therapeutic program) (editorial)] Chuchalin AG. **Ter Arkh** 1997;69(3):5–9 **(Rus)**

[Problem of recurrent bronchitis in small children] Nogales Espert A. **An R Acad Nac Med (Madr)** 1996;113(3):675–85; discussion 685–7 **(Spa)**

BLOOD

Decreased C4 complement component serum levels correlate with the degree of emphysema in patients with chronic bronchitis. Kosmas EN, et al. **Chest** 1997 Aug;112(2):341–7

Extravasation, lamina propria flooding and lumenal entry of bulk plasma exudate in mucosal defence, inflammation and repair. Persson CG, et al. **Pulm Pharmacol** 1996 Jun; 9(3):129–39 (69 ref.)

[Plasma elastase alpha 1-proteinase inhibitor complex in children with bronchitis] Polańska B, et al. **Pediatr Pol** 1996 Sep;71(9):765–9 (Eng. Abstr.) **(Pol)**

[The effect of left ventricular dysfunction on nocturnal desaturation in patients with chronic emphysematous bronchitis and PaO2 55–70 mmHg] dos Santos JM, et al. **Acta Med Port** 1997 Apr;10(4):317–21 (Eng. Abstr.) **(Por)**

[A chemiluminescent analysis of the functional activity of the blood leukocytes in children with recurrent obstructive bronchitis and atopic dermatitis] Savchenko AA, et al. **Patol Fiziol Eksp Ter** 1997 Apr-Jun;(2):32–4 (Eng. Abstr.) **(Rus)**

[Biorhythm of hormonal system in chronic bronchitis] Azirov ID. **Probl Tuberk** 1997;(4):40–2 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

The inflammatory effects of 2 ppm NO2 on the airways of healthy subjects. Blomberg A, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):418–24

Effects of cyclo-oxygenase inhibition on ozone-induced respiratory inflammation and lung function changes. Hazucha MJ, et al. **Eur J Appl Physiol** 1996;73(1–2):17–27

[Tracheal normal mucin secretion and morphology and after SO2 and NO2-induced tracheobronchitis in the rat model] Wagner U. **Pneumologie** 1997 May;51(5):493–4 **(Ger)**

COMPLICATIONS

Airways inflammation in asthma and chronic bronchitis [editorial; comment] Humbert M. **Clin Exp Allergy** 1996 Jul;26(7):735–7 (33 ref.). Comment on: Clin Exp Allergy 1996 Jul;26(7):766–74.

Bronchial inflammation and the common cold: a comparison of atopic and non-atopic individuals. Trigg CJ, et al. **Clin Exp Allergy** 1996 Jun;26(6):665–76

Chronic bronchitis and risk of coronary heart disease [letter; comment] Simons L, et al. **Lancet** 1996 Nov 16; 348(9038):1388–9. Comment on: Lancet 1996 Aug 31;348(9027):567–72.

Chronic bronchitis and risk of coronary heart disease [letter; comment] [see comments] Sjögren B. **Lancet** 1996 Nov 16; 348(9038):1389. Comment on: Lancet 1996 Aug 31;348(9027):567–72. Comment in: Lancet 1997 Feb 15;349(9050):506.

Laryngotracheobronchitis in pregnancy and its clinical implications. Moses RL, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):401–3

Pathogenesis of bacterial bronchitis in cystic fibrosis. Smith A. **Pediatr Infect Dis J** 1997 Jan;16(1):91–5; discussion 95–6, 123–6 (14 ref.)

Symptoms related to snoring and sleep apnoea in subjects with chronic bronchitis: report from the Obstructive Lung Disease in Northern Sweden Study. Larsson LG, et al. **Respir Med** 1997 Jan;91(1):5–12

[ICAM-1 and allergic inflammation] Canonica GW. **Allerg Immunol (Paris)** 1997 Mar;29(3):77–9; discussion 84 (17 ref.) (Eng. Abstr.) **(Fre)**

[Management of bronchial infectious episodes in general medicine] Chauvin P, et al. **Rev Mal Respir** 1996; 13(4):397–404 (Eng. Abstr.) **(Fre)**

[Recurrent respiratory infections in patients with chronic obstructive bronchitis: medical treatment and costs (see comments)] Pechevis M, et al. **Rev Mal Respir** 1996 Oct; 13(5):507–12 (Eng. Abstr.). Comment in: Rev Mal Respir 1997 Apr;14(2):69–71. **(Fre)**

[Efficacy of a 5-day treatment with an azalide (azithromycin) in superinfections of chronic bronchitis] Zuck P. **Rev Pneumol Clin** 1996;52 Suppl 2:S56–9 **(Fre)**

[Chronic bronchitis and its sequelae. Therapy--prognosis--insurance medicine aspects] Gillissen A, et al. **Versicherungsmedizin** 1996 Dec 1;48(6):200–7 (41 ref.) (Eng. Abstr.) **(Ger)**

[Disseminated pulmonary process developing in concurrent diseases and their multimodal treatment] Parizhskiĭ ZM, et al. **Vestn Rentgenol Radiol** 1997 Mar-Apr;(2):41–3 **(Rus)**

DIAGNOSIS

Elevated levels of cytokeratin 19 in the bronchoalveolar lavage fluid of patients with chronic airway inflammatory diseases--a specific marker for bronchial epithelial injury. Nakamura H, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1217–21

A case for serial examination of sputum inflammatory cells. Wong AG, et al. **Eur Respir J** 1996 Oct;9(10):2174–5

Lower respiratory tract infection. Clarke CW. **Med J Aust** 1997 Jul 7;167(1):42–7 (32 ref.)

Acute bronchitis in adults: commonly diagnosed but poorly defined. Leiner S. **Nurse Pract** 1997 Jan;22(1):104, 107–8, 113–7; quiz 117–9 (80 ref.)

Infraglottic and bronchial infections. Uba A. **Prim Care** 1996 Dec;23(4):759–91 (182 ref.)

[Chronic bronchitis] Konietzko N. **Pneumologie** 1996 Sep;50 Suppl 2:582–4 (9 ref.) **(Ger)**

[Endoscopic contamination with Mycobacterium tuberculosis] Izbicki G, et al. **Schweiz Med Wochenschr** 1997 Feb 1;127(5):182–6 (Eng. Abstr.) **(Ger)**

[Interleukin-6 and interleukin-8 in bronchoalveolar lavage fluid material from patients with chronic bronchitis] Jahnz-Różyk K, et al. **Pol Merkuriusz Lek** 1996 Dec; 1(6):383–5 (Eng. Abstr.) **(Pol)**

[Analysis of measurements: arterial blood pressure, pulse rate and oxygen saturation in arterial blood during broncho-fibroscopy and bronchoalveolar lavage in patients with bronchial asthma and chronic bronchitis] Jahnz-Różyk K, et al. **Pol Merkuriusz Lek** 1996 Jul; 1(1):18–21 (Eng. Abstr.) **(Pol)**

[Gas chromatographic analysis of lipids in exhaled air condensate in children with bronchopulmonary diseases] Iatsenko VP, et al. **Klin Lab Diagn** 1997 Apr;(4):16–7 (Eng. Abstr.) **(Rus)**

[Prospects of etiological diagnosis of bronchitis] Afanas'ev IA, et al. **Klin Med (Mosk)** 1996;74(9):34–5 (Eng. Abstr.) **(Rus)**

[The diagnosis of chronic dust-induced bronchitis] Filipchenko LL, et al. **Lik Sprava** 1996 Oct-Dec; (10–12):91–3 (Eng. Abstr.) **(Rus)**

[The importance of the cytochemical diagnosis of the inflammatory process in the lungs for the treatment and rehabilitation of children with recurrent bronchitis] Iarosh AM, et al. **Lik Sprava** 1996 Jul-Sep;(7–9):68–70 (Eng. Abstr.) **(Rus)**

[The interrelation of changes in the upper and lower respiratory tracts in chronic bronchitis patients with different diseases of the nose and paranasal sinuses] Ovcharenko SI, et al. **Ter Arkh** 1996;68(4):15–8 (Eng. Abstr.) **(Rus)**

[Chronic obstructive bronchitis (the current views on its diagnosis and treatment)] Shmelov EI, et al. **Ter Arkh** 1996; 68(8):67–71 **(Rus)**

DRUG THERAPY

Treating acute bronchitis with azithromycin [letter] Mosby JA. **Am Fam Physician** 1997 Feb 1;55(2):444, 447–8

The effect of treatment with oral corticosteroids on asthma symptoms and airway inflammation. Djukanović R, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):826–32

Effect of short-term treatment with low-dose inhaled fluticasone propionate on airway inflammation and remodeling in mild asthma: a placebo-controlled study. Olivieri D, et al. **Am J Respir Crit Care Med** 1997 Jun; 155(6):1864–71

Dornase in treatment of chronic bronchitis. Hudson TJ. **Ann Pharmacother** 1996 Jun;30(6):674–5

Clarithromycin-induced digoxin intoxication. Laberge P, et al. **Ann Pharmacother** 1997 Sep;31(9):999–1002

Potential interaction between clarithromycin and warfarin. Recker MW, et al. **Ann Pharmacother** 1997 Sep;31(9):996–8

Effect of bacterial extract, IRS-19, on the concentration of hydrogen peroxide and myeloperoxidase activity in nasal washings of patients with chronic bronchitis. Nowak D, et al. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):67–72

Using antibiotics for acute bronchitis. Evans MF, et al. **Can Fam Physician** 1997 Sep;43:1525–6 (4 ref.)

Comparison of ceftibuten versus amoxicillin/clavulanate in the treatment of acute exacerbations of chronic bronchitis. Aubier MA. **Chemotherapy** 1997 Jul-Aug;43(4):297–302

Relapsing Aspergillus bronchitis in a double lung transplant patient, successfully treated with a new oral antimycotic agent [letter] Harari S, et al. **Chest** 1997 Mar;111(3):835–6

Antibiotics in acute bronchitis and exacerbations of chronic bronchitis: what is general practitioners' habit? [letter] Trevisani L, et al. **Chest** 1997 Jun;111(6):1788–9

Dosing of amoxicillin/clavulanate given every 12 hours is as effective as dosing every 8 hours for treatment of lower respiratory tract infection. Lower Respiratory Tract Infection Collaborative Study Group. Calver AD, et al. **Clin Infect Dis** 1997 Apr;24(4):570–4

Ofloxacin versus trimethoprim-sulfamethoxazole in the treatment of patients with acute exacerbation of chronic bronchitis. Study of Ofloxacin in Lower Respiratory Tract Infections Research Group. Pérez-Gonzalvo ME, et al. **Clin Ther** 1996 May-Jun;18(3):440–7

Efficacy and safety of cefdinir in the treatment of patients with acute bronchitis. The Cefdinir Bronchitis Study Group. Sperling MJ, et al. **Clin Ther** 1996 Jul-Aug; 18(4):626–34

Erdosteine. Dechant KL, et al. **Drugs** 1996 Dec;52(6):875–81; discussion 882 (23 ref.)

Comparison of nebulized glycopyrrolate and metaproterenol in chronic obstructive pulmonary disease. Tzelepis G, et al. **Eur Respir J** 1996 Jan;9(1):100–3

Effect of regular nedocromil sodium or albuterol on bronchial inflammation in chronic asthma. Altraja A, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S58–64; discussion S64–6

Doxycycline-induced lithium toxicity [letter] Miller SC. **J Clin Psychopharmacol** 1997 Feb;17(1):54–5

Cost-effectiveness analysis [letter; comment] Barry HC. **J Fam Pract** 1997 Jun;44(6):524; discussion 524–5. Comment on: J Fam Pract 1997 Mar;44(3):261–5.

Erythromycin for treatment of acute bronchitis [comment] Franko JP. **J Fam Pract** 1996 Sep;43(3):230–1. Comment on: J Fam Pract 1996 Jun;42(6):601–5.

Antibiotics: neither cost effective nor 'cough' effective [see comments] Hueston WJ. **J Fam Pract** 1997 Mar;44(3):261–5. Comment in: J Fam Pract 1997 Jun;44(6):524; discussion 524–5. Comment in: J Fam Pract 1997 Jun;44(6):524–5.

Treating acute bronchitis [letter; comment] Kaufman D. **J Fam Pract** 1996 Dec;43(6):527; discussion 528–9. Comment on: J Fam Pract 1996 Jun;42(6):601–5.

Treating acute bronchitis [letter; comment] Kimber RG. **J Fam Pract** 1996 Dec;43(6):527; discussion 528–9. Comment on: J Fam Pract 1996 Jun;42(6):601–5.

Cost-effectiveness analysis [letter; comment] King DE. **J Fam Pract** 1997 Jun;44(6):524–5. Comment on: J Fam

Pract 1997 Mar;44(3):261–5.
Treating acute bronchitis [letter; comment] O'Handley J. **J Fam Pract** 1996 Dec;43(6):527–9. Comment on: J Fam Pract 1996 Jun;42(6):601–5.
Treatment of acute bronchitis in adults without underlying lung disease [see comments] MacKay DN. **J Gen Intern Med** 1996 Sep;11(9):557–62 (48 ref.). Comment in: ACP J Club 1997 Mar–Apr;126(2):39.
Comparison of azithromycin and co–amoxiclav in the treatment of acute tracheobronchitis and acute infectious exacerbations of chronic bronchitis in adults. Azithromycin Study Group. Biebuyck XA. **J Int Med Res** 1996 Sep–Oct; 24(5):407–18
Dirithromycin versus amoxiclav in the treatment of acute exacerbations of chronic bronchitis. Van Royen P, et al. **J Int Med Res** 1997 Jan–Feb;25(1):33–40
Steroid–resistant lymphocytic enterocolitis and bronchitis responsive to 6–mercaptopurine in an adolescent. Deslandres C, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep; 25(3):341–6
Antibiotic prescribing for adults with colds, upper respiratory tract infections, and bronchitis by ambulatory care physicians [see comments] Gonzales R, et al. **JAMA** 1997 Sep 17;278(11):901–4. Comment in: JAMA 1997 Sep 17;278(11):944–5.
Lower respiratory tract infection. Clarke CW. **Med J Aust** 1997 Jul 7;167(1):42–7 (32 ref.)
Acute and chronic bronchitis. Carbon C. **Microb Drug Resist** 1995 Summer;1(2):159–62 (28 ref.)
Relationship between bronchial reversibility and tracheobronchial clearance in patients with chronic bronchitis. Moretti M, et al. **Thorax** 1997 Feb;52(2):176–80
[Clinical investigation of the action of tramazoline inpatients with chronic obstructive bronchitis. The importance of mucosal swelling] Schött D, et al. **Arzneimittelforschung** 1996 Dec;46(12):1127–30 (Eng. Abstr.) **(Ger)**
[Acute bronchitis: effectiveness of Sinupret. Comparative study with common expectorants in 3,187 patients] Ernst E, et al. **Fortschr Med** 1997 Apr 20;115(11):52–3 **(Ger)**
[Paranoid psychosis after treatment with the antibiotic ofloxacin] Hollweg M, et al. **Psychiatr Prax** 1996 Sep; 23(5):251 **(Ger)**
[Inhalational antibiotic therapy in patients with cystic fibrosis and Pseudomonas infection] Mordasini C, et al. **Schweiz Med Wochenschr** 1997 May 24;127(21):905–10 (46 ref.) (Eng. Abstr.) **(Ger)**
[Effectiveness of and tolerance to ceftibuten in the treatment of chronic bacterial bronchitis exacerbations in an elderly population] Allegra L, et al. **Minerva Med** 1996 Oct; 87(10):479–85 (Eng. Abstr.) **(Ita)**
[The influence of heparin on the course of bronchitis experimentally provoked by sulfur dioxide in rats in evaluation of lung histology and cytology of bronchial alveolar lavage fluid] Krasnowska M, et al. **Pneumonol Alergol Pol** 1997;65(1–2):35–44 (Eng. Abstr.) **(Pol)**
[Clinical evaluation of efficacy and tolerance of oral treatment with ambroxol in patients with chronic bronchitis] Michnar M, et al. **Pneumonol Alergol Pol** 1996; 64 Suppl 1:90–6 (Eng. Abstr.) **(Pol)**
[The therapeutic and diagnostic contribution of ceftazidime (Fortum) in Pseudomonas aeruginosa superinfection in a patient with chronic bronchopathy] Mihăiţan F, et al. **Pneumoftiziologia** 1997 Jan–Mar;46(1):53–7 (12 ref.) (Eng. Abstr.) **(Rum)**
[Clinical and pharmacokinetic evaluation of ofloxacin under various regimens of administration in patients with bronchopulmonary infections] Belousov OB, et al. **Antibiot Khimioter** 1996;41(9):47–9 (Eng. Abstr.) **(Rus)**
[Experience using cefpirome in pneumonia] Belousov IuB, et al. **Antibiot Khimioter** 1996;41(12):19–20 (Eng. Abstr.) **(Rus)**
[Treatment of patients with pneumonia, chronic obstructive bronchitis and mucoviscidosis with cefpirome] Chuchalin AG, et al. **Antibiot Khimioter** 1996;41(12):14–8 (Eng. Abstr.) **(Rus)**
[Experience using cefpirome in patients with infections of the bronchopulmonary system] Il'ina NI, et al. **Antibiot Khimioter** 1996;41(12):21–3 (Eng. Abstr.) **(Rus)**
[Stepdown ofloxacin therapy in bronchopulmonary diseases] Nonikov VE, et al. **Antibiot Khimioter** 1996;41(9):50–2 (Eng. Abstr.) **(Rus)**
[Clinical trial of ventax (long–acting theophylline) in chronic obstructive bronchitis] Nikitina AV, et al. **Klin Med (Mosk)** 1997;75(1):40–1 (Eng. Abstr.) **(Rus)**
[The use of the cephalosporin antibiotic Zinnat under polyclinic conditions in treating patients with bronchopulmonary infections] Bart Bla, et al. **Ter Arkh** 1996;68(12):36–9 (Eng. Abstr.) **(Rus)**
[Chronic obstructive bronchitis (the current views on its diagnosis and treatment)] Shmelov EI, et al. **Ter Arkh** 1996; 68(8):67–71 **(Rus)**
[The interrelation of autonomic homeostasis and the broncho–obstructive syndrome in patients with chronic bronchitis and the effect of broncholytic therapy with sal'tos] Sokolov AV, et al. **Ter Arkh** 1996;68(11):70–2 **(Rus)**
[The use of mildronate and trental in treating disorders of hemorheology and the intracardiac hemodynamics in patients with chronic obstructive bronchitis] Sakharchuk II, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):122–5 (Eng. Abstr.) **(Ukr)**

ECONOMICS

Antibiotics: neither cost effective nor 'cough' effective [see comments] Hueston WJ. **J Fam Pract** 1997 Mar;44(3):261–5 . Comment in: J Fam Pract 1997 Jun;44(6):524; discussion 524–5. Comment in: J Fam Pract 1997 Jun;44(6):524–5.
Azithromycin compared with clarithromycin in the treatment of adult patients with acute purulent tracheobronchitis: a cost of illness study. Sternon J, et al. **J Int Med Res** 1995 Nov–Dec;23(6):413–22

ENZYMOLOGY

Prostaglandin H synthase 1 and 2 immunoreactivities in the bronchial mucosa of asthmatics. Demoly P, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):670–5
Effect of bacterial extract, IRS–19, on the concentration of hydrogen peroxide and myeloperoxidase activity in nasal washings of patients with chronic bronchitis. Nowak D, et al. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):67–72

EPIDEMIOLOGY

Wheezing bronchitis reinvestigated at the age of 10 years. Wennergren G, et al. **Acta Paediatr** 1997 Apr;86(4):351–5
Periodicity of asthma, emphysema, and chronic bronchitis in a northwest health maintenance organization. Osborne ML, et al. **Chest** 1996 Dec;110(6):1458–62
Air pollution involving nitrogen dioxide exposure and wheezing bronchitis in children. Pershagen G, et al. **Int J Epidemiol** 1995 Dec;24(6):1147–53
Occurrence of asthma and chronic bronchitis among female hairdressers. A questionnaire study. Leino T, et al. **J Occup Environ Med** 1997 Jun;39(6):534–9
Determinants of chronic bronchitis prevalence in an elderly sample from south–west of France. Nejjari C, et al. **Monaldi Arch Chest Dis** 1996 Oct;51(5):373–9
Wheezing bronchitis in children. Incidence, viral infections, and other risk factors in a defined population. Rylander E, et al. **Pediatr Allergy Immunol** 1996 Feb;7(1):6–11
Study of the aetiology of wheezing illness at age 16 in two national British birth cohorts. Lewis S, et al. **Thorax** 1996 Jul;51(7):670–6
[The prevalence of bronchial asthma, chronic bronchitis and COBP in representative samples of the adult population] Dutu S, et al. **Pneumoftiziologia** 1996 Jul–Dec; 45(3–4):139–43 (Eng. Abstr.) **(Rum)**

ETIOLOGY

Airborne (1—>3)–beta–D–glucan and airway disease in a day–care center before and after renovation. Rylander R. **Arch Environ Health** 1997 Jul–Aug;52(4):281–5
Particulate air pollution and respiratory disease in Anchorage, Alaska. Gordian ME, et al. **Environ Health Perspect** 1996 Mar;104(3):290–7
Air pollution involving nitrogen dioxide exposure and wheezing bronchitis in children. Pershagen G, et al. **Int J Epidemiol** 1995 Dec;24(6):1147–53
Exacerbation of tracheobronchitis due to nontoxigenic Corynebacterium diphtheriae. Shinagawa S, et al. **Intern Med** 1996 Aug;35(8):650–2
Plastic bronchitis: an unusual complication associated with sickle cell disease and the acute chest syndrome. Raghuram N, et al. **Pediatrics** 1997 Jul;100(1):139–42
Airway inflammation despite loss of bronchial hyper–responsiveness after multiple ozone exposures. Sun J, et al. **Respir Med** 1997 Jan;91(1):47–55
Chronic bronchitis in textile workers. Niven RM, et al. **Thorax** 1997 Jan;52(1):22–7
[Chronic obstructive bronchitis in a fodder farming setting] Dalphin JC. **Rev Mal Respir** 1996 Dec;13(6):575–81 (22 ref.) (Eng. Abstr.) **(Fre)**
[Changes in the state of monooxygenase system and lipid peroxidation under the effects of carcinogenic dust] Kuz'mina LP, et al. **Med Tr Prom Ekol** 1997;(4):15–8 (Eng. Abstr.) **(Rus)**

GENETICS

A cystic fibrosis patient homozygous for 621 + 1G—>T mutation has a severe pulmonary disease, mild pancreatic insufficiency and a gastro–esophageal reflux. Witt M, et al. **Clin Genet** 1996 Sep;50(3):149–51
Peculiarities of the GSTM1 0/0 genotype in French heavy smokers with various types of chronic bronchitis. Baranova H, et al. **Hum Genet** 1997 Jun;99(6):822–6

IMMUNOLOGY

Release of transforming growth factor–beta (TGF–beta) and fibronectin by alveolar macrophages in airway diseases. Vignola AM, et al. **Clin Exp Immunol** 1996 Oct; 106(1):114–9
Airway interleukin–8 in elderly patients with bacterial lower respiratory tract infections. Ponglertnapagorn P, et al. **Microbiol Immunol** 1996;40(2):177–82
Lymphocyte subsets in experimental bronchopulmonary inflammation and hyperresponsiveness. Coyle AJ, et al. **Res Immunol** 1997 Jan;148(1):13–8 (44 ref.)
[Glucocorticosteroids and ambroxol inhibit secretion of inflammatory cytokines in tracheobronchial epithelial cells: Possible role of the NF–kappa B transcription factor] Betz R. **Pneumologie** 1997 May;51(5):491–2 **(Ger)**
[Elastin–derived peptides and anti–elastic antibodies in children with recurrent or obstructive bronchitis] Polańska B, et al. **Pediatr Pol** 1996 Sep;71(9):759–63 (Eng. Abstr.) **(Pol)**
[The immune system in dust–induced bronchitis] Shmuter LM, et al. **Klin Lab Diagn** 1993 May–Jun;(3):32–9 (Eng. Abstr.) **(Rus)**
[Measurement of sIgA in patients with chronic stable bronchitis] Rico Méndez FG, et al. **Rev Alerg Mex** 1997 Jan–Feb;44(1):4–7 (Eng. Abstr.) **(Spa)**
[The immunological characteristics of patients with chronic bronchitis and a concomitant drug allergy] Pil'hanchuk OF. **Lik Sprava** 1997 Mar–Apr;(2):52–4 **(Ukr)**

METABOLISM

HSP27 elevated in mild allergic inflammation protects airway epithelium from H2SO4 effects. Hastie AT, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L401–9
Acute and chronic effects of allergic airway inflammation on pulmonary nitric oxide production. Mehta S, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L124–31
Pharmacokinetics of [18F]fleroxacin in patients with acute exacerbations of chronic bronchitis and complicated urinary tract infection studied by positron emission tomography. Fischman AJ, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):659–64
Airway eosinophilia and expression of interleukin–5 protein in asthma and in exacerbations of chronic bronchitis [see comments] Saetta M, et al. **Clin Exp Allergy** 1996 Jul; 26(7):766–74. Comment in: Clin Exp Allergy 1996 Jul;26(7):735–7.
Effects of rhDNase on purulent airway secretions in chronic bronchitis. Puchelle E, et al. **Eur Respir J** 1996 Apr; 9(4):765–9
Kinin generation in acute pneumonia and chronic bronchitis. Zhang M, et al. **Eur Respir J** 1997 Aug;10(8):1747–53
Structures of sulfated oligosaccharides isolated from the respiratory mucins of a non–secretor (O, Le(a + b –)) patient suffering from chronic bronchitis. Lo–Guidice JM, et al. **Glycoconj J** 1997 Jan;14(1):113–25
Signature current of SO2–induced bronchitis in rabbit. Iwase N, et al. **J Clin Invest** 1997 Apr 1;99(7):1651–61
Bombesin enhances monocyte and macrophage activities: possible role in the modulation of local pulmonary defenses in chronic bronchitis. Meloni F, et al. **Respiration** 1996; 63(1):28–34
Effect of prostaglandin E2 on eicosanoid release by human bronchial biopsy specimens from normal and inflamed mucosa. Schäfer D, et al. **Thorax** 1996 Sep;51(9):919–23
[Correlation of ECP levels in sputum and blood with parameters of airflow obstruction and hyperreactivity in patients with irreversible bronchial obstruction due to chronic bronchitis] Chazan R, et al. **Pol Arch Med Wewn** 1995 Oct;94(4):300–6 (Eng. Abstr.) **(Pol)**

MICROBIOLOGY

Treating acute bronchitis with azithromycin [letter] Mosby JA. **Am Fam Physician** 1997 Feb 1;55(2):444, 447–8
The binding of surface proteins from Staphylococcus aureus to human bronchial mucins. Trivier D, et al. **Eur Respir J** 1997 Apr;10(4):804–10
Sequence variation in the hpd gene of nonencapsulated Haemophilus influenzae isolated from patients with chronic bronchitis. Duim B, et al. **Gene** 1997 May 20;191(1):57–60
Treating acute bronchitis [letter; comment] O'Handley J. **J Fam Pract** 1996 Dec;43(6):527–9. Comment on: J Fam Pract 1996 Jun;42(6):601–5.
Opportunistic lung infection with Corynebacterium pseudodiphtheriticum after lung and heart transplantation. Burke GJ, et al. **Med J Aust** 1997 Apr 7;166(7):362–4
Acute and chronic bronchitis. Carbon C. **Microb Drug Resist** 1995 Summer;1(2):159–62 (28 ref.)
In vitro susceptibility patterns of nonserotypable Haemophilus influenzae from patients with chronic bronchitis. Butt HL, et al. **Pathology** 1997 Feb;29(1):72–5
Bronchitis obliterans due to Mycoplasma pneumonia. Leong MA, et al. **Pediatr Pulmonol** 1997 May;23(5):375–81 (19 ref.)
[Endoscopic contamination with Mycobacterium tuberculosis] Izbicki G, et al. **Schweiz Med Wochenschr** 1997 Feb 1;127(5):182–6 (Eng. Abstr.) **(Ger)**
[A clinical features of acute respiratory infection with Haemophilus influenzae by transtracheal aspiration] Tsujimoto M, et al. **Kansenshogaku Zasshi** 1996 Aug; 70(8):808–14 (Eng. Abstr.) **(Jpn)**

MORTALITY

Mortality in Danish fishermen. Jensen OC. **Bull Inst Marit Trop Med Gdynia** 1996;47(1–4):5–10
[Deaths from asthma, bronchitis and pulmonary heart disease in Warsaw in the years 1993–1994] May K, et al. **Pol Merkuriusz Lek** 1996 Jul;1(1):34–7 (Eng. Abstr.) **(Pol)**

PATHOLOGY

Airway inflammation and asthma. O'Byrne PM. **Aliment Pharmacol Ther** 1996;10 Suppl 2:18–24 (55 ref.)
Prostaglandin H synthase 1 and 2 immunoreactivities in the bronchial mucosa of asthmatics. Demoly P, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):670–5

Inflammation in bronchial biopsies of subjects with chronic bronchitis: inverse relationship of CD8+ T lymphocytes with FEV1. O'Shaughnessy TC, et al.
Am J Respir Crit Care Med 1997 Mar;155(3):852–7

Transforming growth factor–beta expression in mucosal biopsies in asthma and chronic bronchitis. Vignola AM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):591–9

Bronchial biopsies and airway inflammation [editorial; comment] Jeffery PK. **Eur Respir J** 1996 Aug;9(8):1583–7 (74 ref.). Comment on: Eur Respir J 1996 Aug;9(8):1665–71.

Bronchial brush biopsies for studies of epithelial inflammation in stable asthma and nonobstructive chronic bronchitis [see comments] Riise GC, et al. **Eur Respir J** 1996 Aug; 9(8):1665–71. Comment in: Eur Respir J 1996 Aug;9(8):1583.

Continuity of airway goblet cells and intraluminal mucus in the airways of patients with bronchial asthma. Shimura S, et al. **Eur Respir J** 1996 Jul;9(7):1395–401

Ring distraction technique for measuring surface tension of sputum: relationship to sputum clearability. Albers GM, et al. **J Appl Physiol** 1996 Dec;81(6):2690–5

[Clinical investigation of the action of tramazoline inpatients with chronic obstructive bronchitis. The importance of mucosal swelling] Schött D, et al. **Arzneimittelforschung** 1996 Dec;46(12):1127–30 (Eng. Abstr.) **(Ger)**

[Metaplasia of the bronchial mucosa in the respiratory tract of patients with chronic bronchitis] Bielecki M, et al.
Pneumonol Alergol Pol 1996;64(11–12):842–5 (19 ref.) **(Pol)**

[Experimental model of chronic bronchitis] Kwaśniewski A, et al. **Pneumonol Alergol Pol** 1997;65(1–2):27–34 (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

Actin filaments mediate DNA fiber formation in chronic inflammatory airway disease. Sheils CA, et al.
Am J Pathol 1996 Mar;148(3):919–27

Airway hyperresponsiveness in a rat model of chronic bronchitis: role of C fibers. Long NC, et al.
Am J Respir Crit Care Med 1997 Apr;155(4):1222–9

Increased bronchoalveolar granulocytes and granulocyte/macrophage colony–stimulating factor during exacerbations of chronic bronchitis. Balbi B, et al.
Eur Respir J 1997 Apr;10(4):846–50

Oropharyngeal deposition of 3.5 microns particles inhaled through an elongated mouthpiece. Svartengren K, et al. **Eur Respir J** 1996 Jul;9(7):1556–9

Deposition and clearance in large and small airways in chronic bronchitis. Svartengren K, et al. **Exp Lung Res** 1996 Sep–Oct;22(5):555–76

Individual profiles of dyspnoea and fatigue in chronic bronchitic patients, defined by intensity and duration of submaximal workloads performed. Capodaglio EM, et al.
Monaldi Arch Chest Dis 1996 Aug;51(4):335–40

Acute airway inflammation: morphology. Saetta M.
Monaldi Arch Chest Dis 1996 Dec;51(6):463–5 (22 ref.)

[Comparative observation on the relationship between the MEFV and the visual inspection of small airway] Zhao M, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1996 Feb;19(1):18–21 (Eng. Abstr.) **(Chi)**

[Symptoms and life of patients with chronic bronchitis. Preliminary results] Taytard A, et al. **Rev Pneumol Clin** 1996;52(6):379–85 (Eng. Abstr.) **(Fre)**

[Kallikrein–kinin indices and biological composition of exhaled condensate in acute bronchitis patients with varying disease course] Goncharova VA, et al.
Klin Med (Mosk) 1996;74(7):46–8 (Eng. Abstr.) **(Rus)**

[The energy characteristics of cardiorespiratory system function in patients with chronic bronchitis under graded physical loads] Mizin VI. **Lik Sprava** 1996 Jan–Feb; (1–2):129–31 (Eng. Abstr.) **(Rus)**

[The functional activity of pulmonary surfactant in chronic bronchitis] Gel'tser BI, et al. **Ter Arkh** 1997;69(3):9–12 (Eng. Abstr.) **(Rus)**

[A functional–morphological study of the mucociliary system at stages in the disease in patients with chronic bronchitis] Kobylianskiĭ VI, et al. **Ter Arkh** 1997;69(3):12–6 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Interaction of ozone exposure with airway hyperresponsiveness and inflammation induced by trimellitic anhydride in sensitized guinea pigs. Sun J, et al. **J Toxicol Environ Health** 1997 May;51(1):77–87

Prevention of acute exacerbations of chronic obstructive bronchitis with carbocysteine lysine salt monohydrate: a multicenter, double–blind, placebo–controlled trial. Allegra L, et al. **Respiration** 1996;63(3):174–80

[Prevention of bronchitis in workers of the integrated asbestos mining–enriching works] Andreev LP.
Probl Tuberk 1997;(1):62 **(Rus)**

RADIOGRAPHY

[Routine thoracic image of an 86–year–old patient with tracheobronchitis. Scalloping—pressure–induced ventral vertebral erosions caused by a thoracic aortic aneurysm] Zenzius RP. **Radiologe** 1997 Jun;37(6):483–5 **(Ger)**

[The x–ray anatomical changes in the lungs of patients with chronic obstructive bronchitis and bronchial asthma during exacerbation] Druzhinina VS, et al. **Ter Arkh** 1996; 68(6):61–4 **(Rus)**

REHABILITATION

[The treatment of patients with chronic obstructive bronchitis by using a low–power laser at a general rehabilitation center] Vorotnev AI, et al. **Ter Arkh** 1997;69(3):17–9 (Eng. Abstr.) **(Rus)**

[Possibilities of normobaric hypoxic training in rehabilitation of patients with chronic bronchitis] Aleksandrov OV, et al. **Vestn Ross Akad Med Nauk** 1997;(5):27–30 (Eng. Abstr.) **(Rus)**

[The use of sodium chloride baths in patients with chronic bronchitis] Anisimkina AN, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 May–Jun; (3):14–8 (Eng. Abstr.) **(Rus)**

[The reactions of patients with pathology of the digestive and respiratory organs and joints to an abbreviated course of mud treatment] Levitskiĭ EF, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Nov–Dec; (6):15–7 **(Rus)**

THERAPY

Minimal dose of aerosolized interferon–alpha in human subjects: biological consequences and side–effects. Giosuè S, et al. **Eur Respir J** 1996 Jan;9(1):42–6

Infraglottic and bronchial infections. Uba A. **Prim Care** 1996 Dec;23(4):759–91 (182 ref.)

[Endobronchial use of low–frequency ultrasound and ultraviolet laser radiation in the complex treatment of patients with suppurative bronchial diseases] Ovcharenko SI, et al. **Probl Tuberk** 1997;(3):40–2 (Eng. Abstr.) **(Rus)**

[A comparative assessment of the clinical efficacy of standard and low–volume plasmapheresis in treating patients with bronchial asthma and chronic bronchitis] Provotorov VM, et al. **Ter Arkh** 1996;68(12):28–30 (Eng. Abstr.) **(Rus)**

[Education of patients with asthma, chronic bronchitis and pulmonary emphysema] Krstić–Burić M, et al.
Lijec Vjesn 1997 Feb;119(2):60–3 (Eng. Abstr.) **(Scr)**

VIROLOGY

Polyvisceral cytomegalovirus (CMV) disease revealed by CMV–induced necrotizing bronchitis in a patient with AIDS. Cabié A, et al. **Clin Infect Dis** 1996 Jan;22(1):181–2

[Characteristics of anti–respiratory syncytial humoral immunity during persistence of respiratory syncytial virus antigens in adult patients with chronic obstructive bronchitis] Krivitskaia VZ, et al. **Vopr Virusol** 1996 Sep–Oct;41(5):234–7 (Eng. Abstr.) **(Rus)**

[Bronchopneumonia, obstructive bronchitis and bronchiectasis in children with adenovirus infections] Koncul I, et al. **Lijec Vjesn** 1997 Jan;119(1):11–5 (Eng. Abstr.) **(Scr)**

BRONCHOALVEOLAR LAVAGE

Role of bronchoalveolar lavage in hospitalized pediatric patients. Yagoda MR, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):863–7

The potential of bronchoalveolar lavage in the prognosis and treatment of connective–vascular diseases. Spertini F, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):681–8 (47 ref.)

Circulatory changes after surfactant bolus instillation in lung–lavaged adult rabbits. Wagner MH, et al.
Exp Lung Res 1996 Nov–Dec;22(6):667–76

Laboratory implementation of a rapid three–stain technique for detection of microorganisms from lower respiratory specimens. Maymind M, et al. **J Clin Lab Anal** 1996; 10(2):104–9

Comparison of bronchoalveolar lavage and catheter lavage to confirm ventilator–associated lower respiratory tract infection. Humphreys H, et al. **J Med Microbiol** 1996 Sep; 45(3):226–31

Differentiation of the ILO boundary chest roentgenograph (0/1 to 1/0) in asbestosis by high–resolution computed tomography scan, alveolitis, and respiratory impairment. Harkin TJ, et al. **J Occup Environ Med** 1996 Jan; 38(1):46–52

Anesthesia for bronchoalveolar lavage—the use of modified CPAP system. el–Dawlatly AA, et al.
Middle East J Anesthesiol 1996 Oct;13(6):573–9

Mineral oil lipoid pneumonia in a child with anoxic encephalopathy: treatment by whole lung lavage. Ciravegna B, et al. **Pediatr Pulmonol** 1997 Mar;23(3):233–7

The diagnostic value of bronchoalveolar lavage in immunocompetent children with chronic diffuse pulmonary infiltrates [see comments] Fan LL, et al.
Pediatr Pulmonol 1997 Jan;23(1):8–13. Comment in: Pediatr Pulmonol 1997 Jan;23(1):1–7.

Diagnosis and treatment of ILD [editorial; comment] Hilman BC. **Pediatr Pulmonol** 1997 Jan;23(1):1–7. Comment on: Pediatr Pulmonol 1997 Jan;23(1):8–13. Comment on: Pediatr Pulmonol 1997 Jan;23(1):49–54. Comment on: Pediatr Pulmonol 1997 Jan;23(1):55–61.

Adjustment of bronchoalveolar lavage volume to body weight in children [see comments] Ratjen F, et al.
Pediatr Pulmonol 1996 Mar;21(3):184–8. Comment in: Pediatr Pulmonol 1996 Nov;22(5):329–31.

Lungs exposed to nuclear catastrophe: one–year therapeutic programme in Chernobyl liquidators group. Chuchalin AG, et al. **Schweiz Med Wochenschr** 1997 Feb 1;127(5):165–9

[Successful treatment of pulmonary alveolar proteinosis by massive bronchoalveolar lavage] Fukuhara N, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1996 Jul; 34(7):796–803 (Eng. Abstr.) **(Jpn)**

[Role of bronchoalveolar lavage and transbronchial biopsy in the diagnosis of pneumonia in patients with organ transplantation] Arnedillo Muñoz A, et al.
An Med Interna 1996 Feb;13(2):59–63 (Eng. Abstr.) **(Spa)**

[Management of patients with severe pneumonia in mechanical ventilation: usefulness of bronchoalveolar lavage] Saldías F, et al. **Rev Med Chil** 1996 Aug; 124(8):950–8 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Cytokines derived from alveolar macrophages induce fever after bronchoscopy and bronchoalveolar lavage. Krause A, et al. **Am J Respir Crit Care Med** 1997 May; 155(5):1793–7

Fatal pneumothorax complicating BAL in a bone marrow transplant recipient with bronchiolitis obliterans [letter] Cazzadori A, et al. **Chest** 1997 May;111(5):1468–9

INSTRUMENTATION

Bronchoalveolar lavage: don't forget the size of the bronchoscope [letter; comment] Zach MS.
Pediatr Pulmonol 1996 Nov;22(5):329–31. Comment on: Pediatr Pulmonol 1996 Mar;21(3):184–8.

METHODS

Diagnostic utility of cell–block from bronchial washing in pulmonary neoplasms. Calabretto ML, et al.
Diagn Cytopathol 1996 Sep;15(3):191–2

Bronchoalveolar lavage: comparison of nucleopore filters and direct smear preparations. Walker TL, et al.
Diagn Cytopathol 1997 Aug;17(2):160–4

Protected bronchoalveolar lavage in the diagnosis of ventilator–associated pneumonia [see comments] Barreiro B, et al. **Eur Respir J** 1996 Jul;9(7):1500–7. Comment in: Eur Respir J 1996 Jul;9(7):1339–41.

Lung lavage with a saline volume similar to functional residual capacity followed by surfactant administration in newborns with severe meconium aspiration syndrome. Mosca F, et al. **Intensive Care Med** 1996 Dec;22(12):1412–3

Reduction of lung dust burden in pneumoconiosis by whole–lung lavage. Wilt JL, et al.
J Occup Environ Med 1996 Jun;38(6):619–24

An evaluation of the use of bronchopulmonary lavage in the treatment of plutonium oxide inhalation. Dean MR.
J R Nav Med Serv 1997;82(3):188–96 (27 ref.)

The prognostic significance of tumor cell detection in intraoperative pleural lavage and lung tissue cultures for patients with lung cancer. Buhr J, et al.
J Thorac Cardiovasc Surg 1997 Apr;113(4):683–90

Pulmonary alveolar proteinosis [letter; comment] Spock A. **Pediatrics** 1997 May;99(5):756. Comment on: Pediatrics 1996 Jan;97(1):117–22.

Conditional evaluation of broncho–alveolar lavage in mechanically ventilated patients with suspected unilateral lobar pneumonia. Prekates A, et al. **S Afr Med J** 1997 May; 87(5 Suppl):643–8

Diagnosis of pulmonary infections in immunocompromised patients by fiber–optic bronchoscopy with bronchoalveolar lavage and serology. Eriksson BM, et al.
Scand J Infect Dis 1996;28(5):479–85

Bronchoalveolar lavage with trypsin in pulmonary alveolar proteinosis. Nagasaka Y, et al. **Thorax** 1996 Jul;51(7):769–70

STANDARDS

[Quality and selection of samples of bronchoalveolar lavage (BAL) in diffuse pneumopathies] Martín Juan J, et al.
Arch Bronconeumol 1996 Aug–Sep;32(7):332–40 (Eng. Abstr.) **(Spa)**

VETERINARY

Diagnosis of porcine reproductive and respiratory syndrome using infected alveolar macrophages collected from live pigs [published erratum appears in Vet Microbiol 1996 Oct;52(3–4):317] Mengeling WL, et al. **Vet Microbiol** 1996 Mar;49(1–2):105–15

BRONCHOALVEOLAR LAVAGE FLUID

The role of intratracheal instillation and bronchoalveolar lavage in the investigation of mechanisms underlying lung disorders—an animal model. Trošić I, et al.
Arh Hig Rada Toksikol 1996 Dec;47(4):397–404

Cytokine concentrations in bronchoalveolar lavage fluid of patients with systemic sclerosis. Bolster MB, et al.
Arthritis Rheum 1997 Apr;40(4):743–51

Usefulness of quantitative cultures of BAL fluid for diagnosing nosocomial pneumonia in ventilated patients. Jourdain B, et al. **Chest** 1997 Feb;111(2):411–8

Bronchoalveolar lavage: comparison of nucleopore filters and direct smear preparations. Walker TL, et al.
Diagn Cytopathol 1997 Aug;17(2):160–4

Alveolar epithelial lining fluid cellularity, protein and endothelin–1 in children with congenital heart disease. Grigg J, et al. **Eur Respir J** 1996 Jul;9(7):1381–8

Variability of markers of airway inflammation in BAL [letter; comment] Pizzichini E, et al. **Eur Respir J** 1996 Dec; 9(12):2700–1. Comment on: Eur Respir J 1995 Nov;8(11):1866–71.

Extracellular biotransformation potential in mouse airways. Clouter A, et al. **Int J Biochem Cell Biol** 1997 Mar; 29(3):521–7

Diagnostic yield of bronchoalveolar lavage and bronchoscopic lung biopsy for detection of Pneumocystis carinii [see comments] Fraser JL, et al. **Mayo Clin Proc** 1996 Nov;71(11):1025–9. Comment in: Mayo Clin Proc 1996 Nov;71(11):1121–3.

Diagnosis of Pneumocystis carinii pneumonia: does use of only bronchoalveolar lavage suffice? [editorial; comment] Limper AH. **Mayo Clin Proc** 1996 Nov;71(11):1121–3. Comment on: Mayo Clin Proc 1996 Nov;71(11):1025–9.

Electron microscopic microanalysis of bronchoalveolar lavage: a way to identify exposure to silica and silicate dust. Monsó E, et al. **Occup Environ Med** 1997 Aug; 54(8):560–5

Analysis of bronchoalveolar lavage fluid in patients with chronic hepatitis C before and after treatment with interferon alpha. Yamaguchi S, et al. **Thorax** 1997 Jan; 52(1):33–7

[Risks and side effects of diagnostic bronchoalveolar lavage in ventilated patients] Zimmermann P, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Mar; 32(3):169–74 (62 ref.) (Eng. Abstr.) **(Ger)**

[Invasive pneumonia diagnosis in community-acquired pneumonia (see comments)] Dalhoff K, et al. **Pneumologie** 1996 Oct;50(10):687–92 (46 ref.). Comment in: Pneumologie 1997 Feb;51(2):90–2. **(Ger)**

[Bronchoalveolar lavage in childhood: technical aspects and reference values] Ratjen F, et al. **Pneumologie** 1997 Feb; 51(2):93–8 (Eng. Abstr.) **(Ger)**

[Bronchoalveolar lavage analyses for the diagnosis of interstitial lung diseases] Kawanami O. **Nippon Ika Daigaku Zasshi** 1996 Oct;63(5):395–9 (6 ref.) **(Jpn)**

[The effect of fiberoptic bronchoscopy and bronchoalveolar lavage (BAL) on results of spirometric measurements] Michnar M, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 1:97–103 (Eng. Abstr.) **(Pol)**

[Clinico-diagnostic value of free radical oxidation indices in the condensate of human alveloar fluid] Iudina TV, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):388–91 **(Rus)**

CHEMISTRY

Interleukin 8 and granulocyte elastase alpha 1 proteinase inhibitor complex in the tracheobronchial aspirate of infants with chronic lung disease following respiratory distress syndrome. Takasaki J, et al. **Acta Paediatr Jpn** 1996 Oct; 38(5):434–9

Analysis of asbestos bodies in BAL from subjects with particular exposures. De Vuyst P, et al. **Am J Ind Med** 1997 Jun;31(6):699–704

Asthma and endotoxin: lipopolysaccharide-binding protein and soluble CD14 in bronchoalveolar compartment. Dubin W, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L736–44

Changes in gamma-glutamyltransferase activity in rat lung tissue, BAL, and type II cells after hyperoxia. Van Klaveren RJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L537–47

Phospholipase A2 and arachidonate increase in bronchoalveolar lavage fluid after inhaled antigen challenge in asthmatics. Bowton DL, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):421–5

Cellular association of antiproteases in lavages from ventilated preterm human neonates. Griese M, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2064–71

Levels of amino acids and related compounds in bronchoalveolar lavage fluids of asthmatic patients. Hofford JM, et al. **Am J Respir Crit Care Med** 1997 Feb; 155(2):432–5

Surfactant composition in infants and young children with cystic fibrosis. Hull J, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):161–5

Pulmonary epithelial cell injury and alveolar-capillary permeability in berylliosis. Inoue Y, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):109–15

Antioxidant kinetics in lung lavage fluid following exposure of humans to nitrogen dioxide. Kelly FJ, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1700–5

Biomarkers of lung inflammation in recreational joggers exposed to ozone. Kinney PL, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1430–5

Increased DNA levels in bronchoalveolar lavage fluid obtained from infants with cystic fibrosis. Kirchner KK, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1426–9

The accuracy of elevated concentrations of endotoxin in bronchoalveolar lavage fluid for the rapid diagnosis of gram-negative pneumonia. Kollef MH, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):1020–8

Elevated chemokine levels in bronchoalveolar lavage fluid of tuberculosis patients. Kurashima K, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1474–7

Relationship between soluble CD14, lipopolysaccharide binding protein, and the alveolar inflammatory response in patients with acute respiratory distress syndrome. Martin TR, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):937–44

Antioxidant activity in bronchoalveolar lavage fluid from patients with lung cancer. Melloni B, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1706–11

Elevated levels of cytokeratin 19 in the bronchoalveolar lavage fluid of patients with chronic airway inflammatory diseases--a specific marker for bronchial epithelial injury. Nakamura H, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1217–21

Proteins and phospholipids in BAL from patients with hydrostatic pulmonary edema. Nakos G, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):945–51

Transforming growth factor-beta 1 in asthma. Measurement in bronchoalveolar lavage fluid. Redington AE, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):642–7

Characterization of carotenoid, vitamin A, and alpha-tocopheral levels in human lung tissue and pulmonary macrophages. Redlich CA, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1436–43

Higher concentrations of matrix metalloproteinases in bronchoalveolar lavage fluid of patients with adult respiratory distress syndrome. Torii K, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):43–6

Characterization of platelet-activating factor acetylhydrolase in human bronchoalveolar lavage. Triggiani M, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):94–100

Effect of transportation on the composition of bronchoalveolar lavage fluid obtained from horses. Hobo S, et al. **Am J Vet Res** 1997 May;58(5):531–4

Hyaluronate concentration in tracheal lavage fluid from clinically normal horses and horses with chronic obstructive pulmonary disease. Tulamo RM, et al. **Am J Vet Res** 1997 Jul;58(7):729–32

Single-dose intrapulmonary pharmacokinetics of azithromycin, clarithromycin, ciprofloxacin, and cefuroxime in volunteer subjects. Conte JE Jr, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1617–22

Penetration of dapsone into pulmonary lining fluid of human immunodeficiency virus type 1-infected patients. Cruciani M, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):1077–81

Raised bile acid concentrations in SIDS lungs at necropsy. Hills BA, et al. **Arch Dis Child** 1997 Aug;77(2):120–3

Nitrogen dioxide depletes uric acid and ascorbic acid but not glutathione from lung lining fluid. Kelly FJ, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):95–9

Surface properties, morphology and protein composition of pulmonary surfactant subtypes. Putman E, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):599–605

Respiratory support, surface activity and protein content during nosocomial infection in preterm neonates. Griese M, et al. **Biol Neonate** 1996;70(5):271–9

Surfactant protein-B and lung function in surfactant-treated preterm lambs. Rebello CM, et al. **Biol Neonate** 1997; 71(5):327–36

Effect of cyclo-oxygenase inhibitors and modulators of cyclic AMP formation on lipopolysaccharide-induced neutrophil infiltration in mouse lung. Goncalves de Moraes VL, et al. **Br J Pharmacol** 1996 Apr;117(8):1792–6

Respiratory tract lining fluid antioxidants: the first line of defence against gaseous pollutants. Kelly FJ, et al. **Cent Eur J Public Health** 1996;4 Suppl:11–4

The interdependence of lung antioxidants and antiprotease defense in ARDS. Gadek JE, et al. **Chest** 1996 Dec;110(6 Suppl):273S–277S (13 ref.)

Alveolar fluid glutathione decreases in asymptomatic HIV-seropositive subjects over time. Pacht ER, et al. **Chest** 1997 Sep;112(3):785–8

The effects of a kinin antagonist on changes in lung function and plasma extravasation into the airways following challenge of sensitized guinea-pigs. Featherstone RL, et al. **Clin Exp Allergy** 1996 Feb;26(2):235–40

Chromatographic method for the determination of non-transferrin-bound iron suitable for use on the plasma and bronchoalveolar lavage fluid of preterm babies. Kime R, et al. **Clin Sci (Colch)** 1996 Nov;91(5):633–8

Detection of pulmonary aspiration of gastric contents in an animal model by assay of peptic activity in bronchoalveolar fluid. Badellino MM, et al. **Crit Care Med** 1996 Nov; 24(11):1881–5

IL-1 beta release from cultured bronchial epithelial cells and bronchoalveolar lavage cells from allergic and normal humans following segmental challenge with ragweed. Hastie AT, et al. **Cytokine** 1996 Sep;8(9):730–8

High levels of leukaemia inhibitory factor in ARDS. Jorens PG, et al. **Cytokine** 1996 Nov;8(11):873–6

The balance of pro and anti-inflammatory cytokines in plasma and bronchoalveolar lavage (BAL) at paediatric cardiac surgery. McBride WT, et al. **Cytokine** 1996 Sep; 8(9):724–9

Inflammatory markers in bronchoalveolar lavage fluid of standardbred racehorses with inflammatory airway disease: response to interferon-alpha. Moore BR, et al. **Equine Vet J** 1997 Mar;29(2):142–7

Cytokine profiles in bronchoalveolar lavage fluid and blood in HIV-seronegative patients with Pneumocystis carinii pneumonia. Perenboom RM, et al. **Eur J Clin Invest** 1996 Feb;26(2):159–66

Cytokine profiles in bronchoalveolar lavage fluid and blood in HIV-seropositive patients with Pneumocystis carinii pneumonia. Perenboom RM, et al. **Eur J Clin Invest** 1997 Apr;27(4):333–9

A method for the isolation and preparation of surfactant from tracheobronchial aspirates in infants and children for quantitative and pulsating bubble analysis. Raymondos K, et al. **Eur J Clin Invest** 1996 Nov;26(11):983–8

Pulmonary disposition of vancomycin in critically ill patients. Georges H, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):385–8

Metabolites of nitric oxide in the lower respiratory tract of children. Grasemann H, et al. **Eur J Pediatr** 1997 Jul; 156(7):575–8

BAL fluid LDH activity and LDH isoenzyme pattern in lipoid pneumonia caused by an intravenous injection of lamp oil. Drent M, et al. **Eur Respir J** 1996 Nov; 9(11):2416–8

Asbestos bodies in bronchoalveolar lavage in relation to asbestos bodies and asbestos fibres in lung parenchyma. Karjalainen A, et al. **Eur Respir J** 1996 May;9(5):1000–5

Inflammatory cells and activation markers in BAL during acute rejection and infection in lung transplant recipients: a prospective, longitudinal study. Riise GC, et al. **Eur Respir J** 1997 Aug;10(8):1742–6

Bronchoalveolar and systemic cytokine profiles in patients with ARDS, severe pneumonia and cardiogenic pulmonary oedema. Schütte H, et al. **Eur Respir J** 1996 Sep; 9(9):1858–67

Relevance of asbestos bodies in sputum. Teschler H, et al. **Eur Respir J** 1996 Apr;9(4):680–6

Antioxidants in bronchoalveolar lavage fluid cells isolated from ozone--exposed normal and ascorbate-deficient guinea pigs. Kodavanti UP, et al. **Exp Lung Res** 1996 Jul-Aug;22(4):435–48

Characterization of a secretory phospholipase A2 in human bronchoalveolar lavage fluid. Samet JM, et al. **Exp Lung Res** 1996 May-Jun;22(3):299–315

Sequential appearance of inflammatory mediators in rat bronchoalveolar lavage fluid after oleic acid-induced lung injury. Syrbu S, et al. **Exp Lung Res** 1996 Jan-Feb; 22(1):33–49

Relevant differences in pathogenicity of nuisance dusts; model investigations on samples of silicon carbide dusts. Bruch J, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):477–80

Rapid, high performance liquid chromatography-based, periodate-coupled thiobarbituric acid method for the determination of sialic acid in bronchoalveolar lavage fluid. Freyberger A. **Exp Toxicol Pathol** 1996 Nov;48(6):526–8

Xanthine oxidase activity in bronchoalveolar lavage fluid from patients with chronic obstructive pulmonary disease. Pinamonti S, et al. **Free Radic Biol Med** 1996;21(2):147–55

Differential depletion of human respiratory tract antioxidants in response to ozone challenge. Mudway IS, et al. **Free Radic Res** 1996 Dec;25(6):499–513

Detection of aldehydes in bronchoalveolar lavage of rats exposed to ozone. Pryor WA, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):148–56

Dynamic changes of constituents in bronchoalveolar lavage fluid in experimental silicotic rats. Zhang Q, et al. **Ind Health** 1996;34(4):379–88

Histamine in plasma and bronchoalveolar lavage fluid during cardiac surgery: comparison of a heparin-coated and a non-coated circuit. Lin AH, et al. **Inflamm Res** 1997 Mar; 46 Suppl 1:S75–6

Histamine and tryptase in bronchoalveolar lavage fluid samples from asthmatic children. Turner G, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S69–70

Correlation between bronchoalveolar lavage (BAL) fluid cell lysate histamine content and BAL fluid eosinophil count in atopic and nonatopic asthmatics. Louis R, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):309–12

Matrix metalloproteinases in bronchoalveolar lavage fluid following antigen challenge. Warner JA, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):318–20

Adult respiratory distress syndrome with increased serum and bronchoalveolar lavage fluid levels of squamous cell carcinoma-related antigen. Ashitani J, et al. **Intern Med** 1996 Jun;35(6):497–501

Inflammatory determinants of asthma severity: mediator and cellular changes in bronchoalveolar lavage fluid of patients with severe asthma. Virchow JC Jr, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S27–33; discussion S33–40 (23 ref.)

Abnormalities of cell and mediator levels in bronchoalveolar lavage fluid of patients with mild asthma. Wenzel SE. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S17–21; discussion S33–40 (21 ref.)

Measurement of tobramycin in bronchoalveolar lavage fluid by a modified fluorescence polarization immunoassay [letter] Govantes C, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1111–3

Eicosanoids and lipocortin-1 in BAL fluid in asthma: effects of smoking and inhaled glucocorticoids. Van Hal PT, et al. **J Appl Physiol** 1996 Aug;81(2):548–55

In vivo pulmonary toxicity of cellulose in rats. Tátrai E, et al. **J Appl Toxicol** 1996 Mar-Apr;16(2):129–35

Human mucus protease inhibitor in airway fluids is a potential defensive compound against infection with influenza A and Sendai viruses. Beppu Y, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):309–16

Isolation and characterization of a new member of the scavenger receptor superfamily, glycoprotein-340 (gp-340), as a lung surfactant protein-D binding molecule. Holmskov U, et al. **J Biol Chem** 1997 May 23; 272(21):13743–9

Measurement of cefuroxime in human bronchoalveolar lavage fluid by high-performance liquid chromatography

after solid-phase extraction. Rosseel MT, et al.
J Chromatogr B Biomed Appl 1997 Feb 21;689(2):438-41
Simultaneous quantitation of oxidised and reduced glutathione in equine biological fluids by reversed-phase high-performance liquid chromatography using electrochemical detection. Smith NC, et al.
J Chromatogr B Biomed Appl 1995 Nov 3;673(1):35-41
Nasal and bronchoalveolar lavage fluid cytokines in early cystic fibrosis. Noah TL, et al. **J Infect Dis** 1997 Mar; 175(3):638-47
Functional impairment of bronchoalveolar lavage phospholipids in early Pneumocystis carinii pneumonia in rats [see comments] Su TH, et al. **J Lab Clin Med** 1996 Mar;127(3):263-71. Comment in: J Lab Clin Med 1996 Mar;127(3):239-41.
A simple, rapid, and sensitive scintillation proximity assay for the determination of levels of guinea-pig interleukin-5 in bronchoalveolar lavage samples. Danahay H, et al.
J Pharmacol Toxicol Methods 1997 Apr;37(3):161-6
Elevated levels of platelet derived growth factor and transforming growth factor-beta 1 in bronchoalveolar lavage fluid from patients with scleroderma. Ludwicka A, et al. **J Rheumatol** 1995 Oct;22(10):1876-83
Exposure to crystalline silica or treatment with chlorphentermine increases vitamin E levels in rat alveolar lavage materials. Miles PR, et al.
J Toxicol Environ Health 1996 Dec 6;49(5):511-23
A specific elevation of RANTES in bronchoalveolar lavage fluids of patients with chronic eosinophilic pneumonia. Kurashima K, et al. **Lab Invest** 1997 Jan;76(1):67-75
Elevated levels of type II soluble tumor necrosis factor receptors in the bronchoalveolar lavage fluids of patients with sarcoidosis. Hino T, et al. **Lung** 1997;175(3):187-93
Expression of cytokine mRNA in bronchoalveolar lavage cells from atopic asthmatics before late antigen-induced reaction. Miadonna A, et al. **Lung** 1997;175(3):195-209
Peptide amidating activity in human bronchoalveolar lavage fluid. Scott FM, et al. **Lung Cancer** 1996 Jun;14(2-3):239-51
Asbestos bodies in bronchoalveolar lavage fluid and sputum. Capellaro E, et al. **Med Lav** 1997 Mar-Apr;88(2):99-107
Does pulmonary airway inflammation relate to intercellular adhesion molecule (ICAM-1) in bronchoalveolar lavage specimens? A pilot study. Rumalla A, et al. **Mo Med** 1997 Apr;94(4):186-9
Non-fibrous inorganic particles in bronchoalveolar lavage fluid of pottery workers. Falchi M, et al.
Occup Environ Med 1996 Nov;53(11):762-6
Penetration of dapsone into lung of human immunodeficiency virus-infected children. Gatti G, et al.
Pediatr Infect Dis J 1997 May;16(5):523-4
Increase in interleukin (IL)-1 beta and IL-6 in bronchoalveolar lavage fluid obtained from infants with chronic lung disease of prematurity. Kotecha S, et al.
Pediatr Res 1996 Aug;40(2):250-6
Cysteinyl leukotrienes do not mediate lipopolysaccharide-induced airway hyperresponsiveness in guinea pigs. Uno T, et al. **Prostaglandins** 1996 Dec; 52(6):447-61
Transient increases in albumin and hyaluronan in bronchoalveolar lavage fluid after quitting smoking: possible signs of reparative mechanisms. Sköld CM, et al. **Respir Med** 1996 Oct;90(9):523-9
Increased expression of membrane-associated phospholipase A2 in the lower respiratory tract of asymptomatic cigarette smokers. Yamashita JI, et al. **Respir Med** 1996 Sep; 90(8):479-83
Airways reactivity, atopy and bronchoalveolar lavage in male smokers with airflow obstruction. García-García JM, et al. **Respiration** 1996;63(4):199-204
Substance P-like immunoreactive substance in bronchoalveolar lavage fluids from patients with idiopathic pulmonary fibrosis and pulmonary sarcoidosis. Takeyama M, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Mar; 13(1):33-7
Endothelin in bronchoalveolar lavage fluid is increased in lung-transplanted patients. Aarnio P, et al.
Scand J Thorac Cardiovasc Surg 1996;30(3-4):113-6
Elevated levels of matrix metalloproteinases in bronchoalveolar lavage fluid of emphysematous patients. Finlay GA, et al. **Thorax** 1997 Jun;52(6):502-6
Cytokines in bronchoalveolar lavage fluid in patients with high altitude pulmonary oedema at moderate altitude in Japan. Kubo K, et al. **Thorax** 1996 Jul;51(7):739-42
Two dimensional protein patterns of bronchoalveolar lavage fluid from non-smokers, smokers, and subjects exposed to asbestos. Lindahl M, et al. **Thorax** 1996 Oct;51(10):1028-35
Significance of elevated procollagen-III-peptide and transforming growth factor-beta levels of bronchoalveolar lavage fluids from idiopathic pulmonary fibrosis patients. Hiwatari N, et al. **Tohoku J Exp Med** 1997 Feb; 181(2):285-95
Biochemical analysis of airway aspirates of newborns. Terao T, et al. **Tokushima J Exp Med** 1996 Dec;43(3-4):69-77
Predictive value of cytomegalovirus DNA detection by polymerase chain reaction in blood and bronchoalveolar lavage in lung transplant patients. Stéphan F, et al.
Transplantation 1997 May 27;63(10):1430-5
[The role of endothelin-1 and tumor necrosis factor-alpha in the development of asthma sarcoidosis] Liu Z, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Dec; 18(6):366-8, 384 (Eng. Abstr.) **(Chi)**
[Defensin in plasma and in bronchoalveolar lavage fluid from patients with acute respiratory distress syndrome] Ashitani J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1349-53 (Eng. Abstr.) **(Jpn)**
[Neutrophil elastase and elastin-derived peptides in BAL fluid and emphysematous changes on CT scans] Betsuyaku T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34 Suppl:69-74 (Eng. Abstr.) **(Jpn)**
[Surfactant protein A in bronchoalveolar lavage fluid from patients with idiopathic interstitial pneumonia] Honda Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1326-30 (Eng. Abstr.) **(Jpn)**
[High concentrations of interleukin-8 in bronchoalveolar lavage fluid from a patient with adult respiratory distress syndrome] Matsubara H, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1996 May; 34(5):552-6 (Eng. Abstr.) **(Jpn)**
[Diagnosis of acute respiratory distress syndrome: analysis of bronchoalveolar lavage fluid] Taniguchi H, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:251-6 (Eng. Abstr.) **(Jpn)**
[Levels of endothelin-1 in bronchoalveolar fluid of patients with selected respiratory tract diseases] Gawlik R, et al. **Pneumonol Alergol Pol** 1997;65(5-6):333-7 (Eng. Abstr.) **(Pol)**
[Levels of procollagen III in bronchial alveolar lavage fluid in patients with sarcoidosis] Ziora D, et al.
Pneumonol Alergol Pol 1997;65(5-6):343-7 (Eng. Abstr.) **(Pol)**
[Bradykinin level in bronchoalveolar lavage fluid in patients with extrinsic allergic alveolitis] Ziora D, et al.
Pol Arch Med Wewn 1996 Jul;96(1):39-44 (Eng. Abstr.) **(Pol)**
[The effect of bronchial inhalation provocation tests on levels of interleukin-8 in material from broncho-alveolar fluid of patients with atopic bronchial asthma] Jahnz-Różyk K, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):32-5 (Eng. Abstr.) **(Pol)**
[Interleukin-6 and interleukin-8 in bronchoalveolar lavage fluid material from patients with chronic bronchitis] Jahnz-Różyk K, et al. **Pol Merkuriusz Lek** 1996 Dec; 1(6):383-5 (Eng. Abstr.) **(Pol)**
[The effect of specific immunotherapy on the concentration of some chemokines in BALF in patients with atopic bronchial asthma] Jahnz-Różyk K, et al.
Pol Merkuriusz Lek 1996 Oct;1(4):223-6 (Eng. Abstr.) **(Pol)**
[N-terminal peptide of type III procollagen in serum and bronchoalveolar fluid as a marker of collagen metabolism in chronic interstitial lung diseases] Siemińska A.
Przegl Lek 1996;53(7):574-8 (45 ref.) (Eng. Abstr.) **(Pol)**
[The use of a new marker and test systems for the diagnosis of lung cancer with a study of bronchoalveolar washings] Vikha GV, et al. **Ter Arkh** 1997;69(3):50-2 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Cytodiagnosis of malignant mesothelioma on bronchial washing fluid, with immunocytochemical confirmation [letter] Bresaola E, et al. **Acta Cytol** 1997 Sep-Oct; 41(5):1640-2
Bronchial tuberculosis. Cytologic diagnosis of fiberoptic bronchoscopic brushings. Fang X, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1463-7
Use of Riu stain in the immediate interpretation of bronchial brushing cytology. Comparison with Papanicolaou stain and histology. Lee CH, et al. **Acta Cytol** 1997 Jul-Aug; 41(4):1171-7
Cytologic diagnosis of complicated pulmonary unilocular cystic hydatidosis. A study of 131 cases. Oztek I, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1159-66
The mechanism of bronchial hyperreactivity in allergic rhinitis patients. A light microscopic study on BAL and bronchial biopsy. Bavbek S, et al.
Allergol Immunopathol (Madr) 1996 Mar-Apr;24(2):45-53
Bronchoalveolar lavage cytology in pulmonary alveolar proteinosis. Burkhalter A, et al. **Am J Clin Pathol** 1996 Oct;106(4):504-10
Bronchoalveolar lavage findings in firefighters. Bergström CE, et al. **Am J Ind Med** 1997 Oct;32(4):332-6
Hepatocyte growth factor is a mitogen for alveolar type II cells in rat lavage fluid. Mason RJ, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):L46-53
Hepatocyte growth factor in bronchoalveolar lavage fluids and cells in patients with inflammatory chest diseases of the lower respiratory tract: detection by RIA and in situ hybridization. Sakai T, et al.
Am J Respir Cell Mol Biol 1997 Apr;16(4):388-97
CD1a+ and CD1a- accessory cells from human bronchoalveolar lavage differ in allostimulatory potential and cytokine production. van Haarst JM, et al.
Am J Respir Cell Mol Biol 1996 Dec;15(6):752-9
Cellular association of antiproteases in lavages from ventilated preterm human neonates. Griese M, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):2064-71
IFN-gamma and IL-12 are increased in active compared with inactive tuberculosis. Taha RA, et al.
Am J Respir Crit Care Med 1997 Mar;155(3):1135-9
Evaluation of association of blood and bronchoalveolar eosinophil numbers and serum total immunoglobulin E concentration with the expression of nonspecific airway reactivity in dogs. Collie DD, et al. **Am J Vet Res** 1997 Jan;58(1):34-9
Effect of treatment with erythromycin on bronchoalveolar lavage fluid cell populations in foals. Lakritz J, et al.
Am J Vet Res 1997 Jan;58(1):56-61
Automated cell differentiation of bronchoalveolar lavage samples with two-step image analysis. Mairinger T, et al.
Anal Quant Cytol Histol 1996 Dec;18(6):453-60
The indoor microfungus Trichoderma viride potentiates histamine release from human bronchoalveolar cells. Larsen FO, et al. **APMIS** 1996 Sep;104(9):673-9
Differential cytology of bronchoalveolar lavage fluid [letter] Reid MM. **Arch Dis Child** 1997 Feb;76(2):174
Exudative neutrophils show impaired pH regulation compared with circulating neutrophils. Hackam DJ, et al.
Arch Surg 1996 Dec;131(12):1296-301
Pulmonary involvement in patients with HTLV-I associated myelopathy. Mattos K, et al. **Arq Neuropsiquiatr** 1995 Dec; 53(4):766-70
Early diagnosis of ventilator-associated pneumonia. Is it possible to define a cutoff value of infected cells in BAL fluid? Allaouchiche B, et al. **Chest** 1996 Dec;110(6):1558-65
BAL neutrophilia in asthmatic patients. A by-product of eosinophil recruitment? [see comments] Frangova V, et al. **Chest** 1996 Nov;110(5):1236-42. Comment in: Chest 1996 Nov;110(5):1138-9.
Gamma-delta T cells in BAL fluid of chronic lower respiratory tract infection. Fujii T, et al. **Chest** 1997 Jun; 111(6):1697-701
Detection of chromosomal aneuploidy by interphase fluorescence in situ hybridization in bronchoscopically gained cells from lung cancer patients. Schenk T, et al.
Chest 1997 Jun;111(6):1691-6
Pathological changes according to the severity of asthma. Cho SH, et al. **Clin Exp Allergy** 1996 Oct;26(10):1210-9
Comparison of inflammatory cell counts in asthma: induced sputum vs bronchoalveolar lavage and bronchial biopsies. Grootendorst DC, et al. **Clin Exp Allergy** 1997 Jul; 27(7):769-79
Investigating paediatric airways by non-bronchoscopic lavage: normal cellular data. Heaney LG, et al.
Clin Exp Allergy 1996 Jul;26(7):799-806
Phenotypic characterization of T cells in bronchoalveolar lavage fluid (BALF) and peripheral blood of patients with diffuse panbronchiolitis; the importance of cytotoxic T cells. Kawakami K, et al. **Clin Exp Immunol** 1997 Feb; 107(2):410-6
Comparison of Cyto-Shuttle and cytocentrifuge as processing methods for nongynecologic cytology specimens. Robb J, et al. **Diagn Cytopathol** 1996 Jun; 14(4):305-9
Bronchioloalveolar lavage in the diagnosis of CMV pneumonitis in lung transplant recipients: an immunocytochemical study. Solans EP, et al.
Diagn Cytopathol 1997 Apr;16(4):350-2
Cytokine production by bronchoalveolar lavage cells in chronic beryllium disease. Tinkle SS, et al.
Environ Health Perspect 1996 Oct;104 Suppl 5:969-71
Studies of bronchoalveolar lavage in sudden infant death syndrome: a clinical-pathological study. Imrei L.
Eur Arch Otorhinolaryngol Suppl 1997;1:S43-5
Reduction of cytokine release of blood and bronchoalveolar mononuclear cells by ambroxol. Pfeifer S, et al.
Eur J Med Res 1997 Mar 24;2(3):129-32
Increased bronchoalveolar granulocytes and granulocyte/macrophage colony-stimulating factor during exacerbations of chronic bronchitis. Balbi B, et al.
Eur Respir J 1997 Apr;10(4):846-50
Integrin alpha E beta 7 expression on BAL CD4+, CD8+, and gamma delta T-cells in bleomycin-induced lung fibrosis in mouse. Braun RK, et al. **Eur Respir J** 1996 Apr; 9(4):673-9
Neutrophil activation in fibrosing alveolitis: a comparison of lone cryptogenic fibrosing alveolitis and systemic sclerosis. Cailes JB, et al. **Eur Respir J** 1996 May;9(5):992-9
Characterization and quantification of alveolar monocyte-like cells in human chronic inflammatory lung disease. Krombach F, et al. **Eur Respir J** 1996 May; 9(5):984-91
Dose-dependent cigarette smoking-related inflammatory responses in healthy adults. Kuschner WG, et al.
Eur Respir J 1996 Oct;9(10):1989-94
Flow cytometric detection of cell-associated cytokines in alveolar macrophages. Nakamura H, et al. **Eur Respir J** 1996 Jun;9(6):1181-7
The source and role of RANTES in interstitial lung disease [see comments] Petrek M, et al. **Eur Respir J** 1997 Jun; 10(6):1207-16. Comment in: Eur Respir J 1997 Jun;10(6):1199-202.
The diagnostic value of bronchoalveolar lavage and transbronchial lung biopsy in cryptogenic organizing pneumonia. Poletti V, et al. **Eur Respir J** 1996 Dec; 9(12):2513-6
Inflammatory cells and activation markers in BAL during acute rejection and infection in lung transplant recipients: a prospective, longitudinal study. Riise GC, et al.
Eur Respir J 1997 Aug;10(8):1742-6
Variability in airway inflammation sampled by bronchoalveolar lavage [letter] Ruffin RE. **Eur Respir J** 1996 Aug;9(8):1766-7; 1996 discussion
Lung and blood T-cell receptor repertoire in extrinsic allergic alveolitis [see comments] Wahlström J, et al.
Eur Respir J 1997 Apr;10(4):772-9. Comment in: Eur Respir J 1997 Apr;10(4):767-71.

Cytokine production by T-cell clones from bronchoalveolar lavage fluid of patients with asthma and healthy subjects. Krouwels FH, et al. **Eur Respir J Suppl** 1996 Aug; 22:95s-103s

BAL-isolated cells after administration of mutein VI rhTNF-alpha into Morris hepatoma. Sulkowski S, et al. **Folia Histochem Cytobiol** 1997;35(2):81-2

Quantitative time-course profiles of bronchoalveolar lavage cells following intratracheal instillation of lipopolysaccharide in mice. Hirano S. **Ind Health** 1997 Jul; 35(3):353-8

Dynamic changes of constituents in bronchoalveolar lavage fluid in experimental silicotic rats. Zhang Q, et al. **Ind Health** 1996;34(4):379-88

Correlation between bronchoalveolar lavage (BAL) fluid cell lysate histamine content and BAL fluid eosinophil count in atopic and nonatopic asthmatics. Louis R, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):309-12

Inflammatory determinants of asthma severity: mediator and cellular changes in bronchoalveolar lavage fluid of patients with severe asthma. Virchow JC Jr, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S27-33; discussion S33-40 (23 ref.)

Abnormalities of cell and mediator levels in bronchoalveolar lavage fluid of patients with mild asthma. Wenzel SE. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S17-21; discussion S33-40 (21 ref.)

Bronchoalveolar lavage neutrophilia is associated with obliterative bronchiolitis after lung transplantation: role of IL-8. DiGiovine B, et al. **J Immunol** 1996 Nov 1; 157(9):4194-202

Cell analysis of bronchoalveolar lavage. Apibal S, et al. **J Med Assoc Thai** 1995 Dec;78(12):678-85

Abnormalities in surfactant in sudden infant death syndrome as a postmortem marker and possible test of risk. Hills BA, et al. **J Paediatr Child Health** 1997 Feb;33(1):61-6

Augmented chemiluminescence response of bronchoalveolar lavage cells in calves receiving repeated daily sprayings of ammonia mist into the nasal cavities. Murata H. **J Vet Med Sci** 1997 Feb;59(2):141-2

In vivo replication of porcine reproductive and respiratory syndrome virus in swine alveolar macrophages and change in the cell population in bronchoalveolar lavage fluid after infection. Shibata I, et al. **J Vet Med Sci** 1997 Jul; 59(7):539-43

Neutrophil chemotactic activity in bronchoalveolar lavage fluid recovered from patients with diffuse panbronchiolitis. Katsuki M. **Kurume Med J** 1996;43(4):279-87

Respiratory bronchiolitis-associated interstitial lung disease: a case report with bronchoalveolar lavage findings. Bosi F, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):448-50

Bronchoalveolar lavage, histological and immunohistochemical features in cryptogenic organizing pneumonia. Poletti V, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):289-95

Pulmonary infiltrates with masto- and lymphocytosis in BALF associated with arechine. Jedynak U, et al. **Pol J Pathol** 1997;48(1):63-7

Comparison of alveolar septal inflammation to bronchoalveolar lavage in interstitial lung diseases. Nagata N, et al. **Respiration** 1996;63(2):94-9

Interleukin 1 beta, tumor necrosis factor alpha, and interleukin 8 in bronchoalveolar lavage fluid of patients with diffuse panbronchiolitis: a potential mechanism of macrolide therapy. Sakito O, et al. **Respiration** 1996; 63(1):42-8

The immotile cilia syndrome: characterization of the inflammatory response in nonsmoking patients with dysfunction of the cilia. Sköld CM, et al. **Respiration** 1996; 63(6):325-32

Is the different T helper cell activity in sarcoidosis and extrinsic allergic alveolitis also reflected by the cellular bronchoalveolar lavage fluid profile? Drent M, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1997 Mar;14(1):31-8

Increased expression of tumor necrosis factor-alpha, interleukin-6, platelet-derived growth factor-B and granulocyte-macrophage colony-stimulating factor mRNA in cells of bronchoalveolar lavage fluids from patients with sarcoidosis. Ishioka S, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Sep;13(2):139-45

Quantitative evaluation of the IL-1 beta and IL-1 receptor antagonist obtained from BALF macrophages in patients with interstitial lung diseases. Mikuniya T, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1997 Mar;14(1):39-45

Particle activity and in vivo pulmonary response to freshly milled and aged alpha-quartz. Shoemaker DA, et al. **Scand J Work Environ Health** 1995;21 Suppl 2:15-8

Mathematical model of phagocytosis and inflammation after the inhalation of quartz at different concentrations. Tran CL, et al. **Scand J Work Environ Health** 1995;21 Suppl 2:50-4

Clinical and subclinical alveolitis in connective tissue diseases assessed by bronchoalveolar lavage. Manganelli P, et al. **Semin Arthritis Rheum** 1997 Apr;26(5):740-54 (94 ref.)

Cellular profiles in asthmatic airways: a comparison of induced sputum, bronchial washings, and bronchoalveolar lavage fluid. Keatings VM, et al. **Thorax** 1997 Apr; 52(4):372-4

Bronchoalveolar lavage cell profile in methotrexate induced pneumonitis. Schnabel A, et al. **Thorax** 1997 Apr; 52(4):377-9

Inhalation of toluene diisocyanate is associated with increased production of nitric oxide by rat bronchoalveolar lavage cells. Huffman LJ, et al. **Toxicol Appl Pharmacol** 1997 Jul; 145(1):61-7

Increased 5-lipoxygenase metabolism in the lungs of human subjects exposed to ozone. Coffey MJ, et al. **Toxicology** 1996 Dec 18;114(3):187-97

Quantitative characterization of lymphocyte populations in bronchoalveolar lavage fluid and peripheral blood of normal adult Arabian horses. Hines MT, et al. **Vet Immunol Immunopathol** 1996 May;51(1-2):29-37

[Correlation between roentgenogram and CT scans with the changes of cells in bronchoalveolar lavage fluid in sarcoidosis] Lu C, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Dec; 18(6):360-2, 383-4 (Eng. Abstr.) **(Chi)**

[High-resolution computer tomography in the diagnosis of cryptogenic fibrosing alveolitis. Correlation with pulmonary function and bronchoalveolar lavage] Polák J, et al. **Cas Lek Cesk** 1996 Jul 26;135(13):417-22 (Eng. Abstr.) **(Cze)**

[Alveolar lavage cytological data in lung transplants free of bronchial superinfection. Toulouse Lung Transplantation Group] Courtade M, et al. **Rev Mal Respir** 1996; 13(4):413-20 (Eng. Abstr.) **(Fre)**

[Interstitial pneumonia associated with collagen vascular diseases: histological findings, and cells in bronchoalveolar lavage fluid] Nagai S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:258-63 (Eng. Abstr.) **(Jpn)**

[Chronic eosinophilic pneumonia associated with allergy to candida and with changes in bronchoalveolar lavage fluid] Nakagawa A, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):530-5 (Eng. Abstr.) **(Jpn)**

[Diagnosis of interstitial lung disease (ILD) in patients with systemic sclerosis. The significance of broncho-alveolar lavage (BAL) --personal observations] Kopiński P, et al. **Folia Med Cracov** 1996;37(3-4):51-66 (Eng. Abstr.) **(Pol)**

[Phenotype of lymphocytes in bronchoalveolar lavage and peripheral blood with different clinical presentations of sarcoidosis] Kieszko R, et al. **Pneumonol Alergol Pol** 1996; 64 Suppl 1:52-8 (Eng. Abstr.) **(Pol)**

[The influence of heparin on the course of bronchitis experimentally provoked by sulfur dioxide in rats in evaluation of lung histology and cytology of bronchial alveolar lavage fluid] Krasnowska M, et al. **Pneumonol Alergol Pol** 1997;65(1-2):35-44 (Eng. Abstr.) **(Pol)**

[Experimental model of chronic bronchitis] Kwaśniewski A, et al. **Pneumonol Alergol Pol** 1997;65(1-2):27-34 (Eng. Abstr.) **(Pol)**

[Clinical, radiologic and functional changes in the respiratory system and changes in cytology of bronchoalveolar lavage fluid of patients with idiopathic pulmonary fibrosis] Zielonka TM, et al. **Pol Merkuriusz Lek** 1996 Jul;1(1):22-4 (Eng. Abstr.) **(Pol)**

[The importance of the cytological study of the tracheobronchial aspirate in newborn infants with the respiratory distress syndrome who are on artificial pulmonary ventilation] Bubnova NI, et al. **Arkh Patol** 1996 Nov-Dec;58(6):22-5 (Eng. Abstr.) **(Rus)**

[Morphology of the lungs and cellular composition of bronchoalveolar lavage in tuberculomas] Gedymin LE, et al. **Probl Tuberk** 1996;(3):48-52 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Lymphocyte phenotyping in systemic sclerosis: a flow cytometry analysis of lymphocytes in bronchoalveolar lavage fluid. Domagała-Kulawik J, et al. **Anal Quant Cytol Histol** 1997 Jun;19(3):264-70

Lectins and antibodies against blood-group antigens as tools for studying the cellular source of glycoproteins in human bronchial fluid: a comparison of morphological and biochemical observations. Bals R, et al. **Cell Tissue Res** 1996 Dec;286(3):457-65

Defective antigen presentation by lavage cells from terminal patients with cystic fibrosis. Knight RA, et al. **Clin Exp Immunol** 1997 Mar;107(3):542-7

Increased IL-6 and IL-8 in bronchoalveolar lavage fluids (BALF) from patients with sarcoidosis: correlation with the clinical parameters. Takizawa H, et al. **Clin Exp Immunol** 1997 Jan;107(1):175-81

Donor-specific cytotoxic lymphocyte activity from bronchoalveolar lavage during acute canine lung allograft rejection. Sekine Y, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):902-9

Neutrophil-related cytokines and neutrophil products in bronchoalveolar lavage fluid of a patient with ANCA negative Wegener's granulomatosis. Mukae H, et al. **Eur Respir J** 1996 Sep;9(9):1950-4

Restricted T-cell antigen receptor repertoire in bronchoalveolar T cells from normal humans. Yurovsky VV, et al. **Hum Immunol** 1996 Sep 15;50(1):22-37

Studies on the interaction of IL-8 with human plasma alpha 2-macroglobulin: evidence for the presence of IL-8 complexed to alpha 2-macroglobulin in lung fluids of patients with adult respiratory distress syndrome. Kurdowska A, et al. **J Immunol** 1997 Feb 15;158(4):1930-40

Anti-IL-8 autoantibodies in alveolar fluid from patients with the adult respiratory distress syndrome. Kurdowska A, et al. **J Immunol** 1996 Sep 15;157(6):2699-706

Cd1a-positive cells in bronchoalveolar lavage samples from children with Langerhans cell histiocytosis. Réfabert L, et al. **J Pediatr** 1996 Dec;129(6):913-5

Shed soluble ICAM-1 molecules in bronchoalveolar lavage cell supernatants and serum of patients with pulmonary sarcoidosis. Bäumer I, et al. **Lung** 1997;175(2):105-16

Immunoglobulin and beta 2-microglobulin concentrations in bronchoalveolar lavage of children and adults. Ratjen F, et al. **Lung** 1996;174(6):383-91

Necator americanus in inbred mice: evidence in support of genetically determined differences in the cellular immune response to a primary infection. Timothy LM, et al. **Parasitology** 1997 Jan;114 (Pt 1):53-63

Induction of mucosal immune responses against a heterologous antigen fused to filamentous hemagglutinin after intranasal immunization with recombinant Bordetella pertussis. Renauld-Mongénie G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7944-9

Interleukin-8 and leukotriene B4 in bronchoalveolar lavage fluid from HIV-infected patients with bacterial pneumonia. Krarup E, et al. **Respir Med** 1997 May;91(5):317-21

Relative production of tumour necrosis factor alpha and interleukin 10 in adult respiratory distress syndrome. Armstrong L, et al. **Thorax** 1997 May;52(5):442-6

Analysis of T cell subsets and beta chemokines in patients with pulmonary sarcoidosis. Iida K, et al. **Thorax** 1997 May; 52(5):431-7

Effect of exposure to swine dust on levels of IL-8 in airway lavage fluid. Larsson BM, et al. **Thorax** 1997 Jul; 52(7):638-42

Altered nonspecific lymphocyte cytotoxicity in bronchoalveolar lavage of lung transplant recipients: can it be useful in monitoring rejection or infection? Shennib H, et al. **Transplantation** 1996 Nov 15;62(9):1262-7

Suppressive effect of bronchoalveolar lavage fluid from pigs infected with Mycoplasma hyopneumoniae on chemiluminescence of porcine peripheral neutrophils. Asai T, et al. **Vet Immunol Immunopathol** 1996 Jun 1; 51(3-4):325-31

Immunophenotypic analysis of foal bronchoalveolar lavage lymphocytes. Balson GA, et al. **Vet Microbiol** 1997 Jun 16;56(3-4):237-46

[Differential cytology of bronchoalveolar lavage fluid in healthy children in comparison with children colonized by lung-specific pathogens] Ahrens P, et al. **Pneumologie** 1997 Feb;51(2):99-103 (Eng. Abstr.) **(Ger)**

[Subsets of lymphocytes in bronchoalveolar-lavage fluid from patients with idiopathic bronchiolitis obliterans organizing pneumonia] Kusumoto H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):529-35 (Eng. Abstr.) **(Jpn)**

[CA-19-9 antigen analysis of bronchoalveolar lavage fluid contributing to therapeutic decision of pulmonary alveolar epithelial tumor] Abe K, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):925-6 **(Jpn)**

[The immunoglobulin content of the bronchial secretion in children operated on for bronchiectasis] Vasil'ev VN, et al. **Vestn Khir Im I I Grek** 1996;155(2):67-9 (Eng. Abstr.) **(Rus)**

[Measurement of sIgA in patients with chronic stable bronchitis] Rico Méndez FG, et al. **Rev Alerg Mex** 1997 Jan-Feb;44(1):4-7 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Bronchial tuberculosis. Cytologic diagnosis of fiberoptic bronchoscopic brushings. Fang X, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1463-7

Use of bronchoalveolar lavage semiquantitative cultures in cystic fibrosis. Baughman RP, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):286-91

Diagnosis of smear-negative pulmonary tuberculosis using sequence capture polymerase chain reaction. Brugière O, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1478-81

Empiric treatments impair the diagnostic yield of BAL in HIV-positive patients. Gracia JD, et al. **Chest** 1997 May; 111(5):1180-6

Impact of BAL data on the therapy and outcome of ventilator-associated pneumonia. Luna CM, et al. **Chest** 1997 Mar;111(3):676-85

Comparison of the amplified Mycobacterium tuberculosis (MTB) direct test, Amplicor MTB PCR, and IS6110-PCR for detection of MTB in respiratory specimens. Dalovisio JR, et al. **Clin Infect Dis** 1996 Nov;23(5):1099-106; discussion 1107-8

Detection of Aspergillus DNA in bronchoalveolar lavage fluid of AIDS patients by the polymerase chain reaction [letter] Bart-Delabesse E, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):24-5

Diagnostic value of direct examination of protected specimen brush samples in nosocomial pneumonia. Mertens AH, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):807-10

Protected bronchoalveolar lavage in the diagnosis of ventilator-associated pneumonia [see comments] Barreiro B, et al. **Eur Respir J** 1996 Jul;9(7):1500-7. Comment in: Eur Respir J 1996 Jul;9(7):1339-41.

Rapid identification of Staphylococcus aureus in bronchoalveolar lavage fluid using a DNA probe (Accuprobe). Allaouchiche B, et al. **Intensive Care Med** 1996 Jul;22(7):683-7

Immunodetection of Pneumocystis carinii in bronchoalveolar lavage specimens compared with methenamine silver stain. Lautenschlager I, et al. **J Clin Microbiol** 1996 Mar;

34(3):728–30

Detection of Pneumocystis carinii DNA in sputum and bronchoalveolar lavage samples by polymerase chain reaction. Olsson M, et al. **J Clin Microbiol** 1996 Aug; 34(8):2052

Comparison of two PCR methods for detection of Pneumocystis carinii in bronchoalveolar lavage fluid. Tamburrini E, et al. **J Eukaryot Microbiol** 1996 Sep–Oct; 43(5):20S

Detection of Pneumocystis carinii in rats by polymerase chain reaction: comparison of lung tissue and bronchoalveolar lavage specimens. Feldman SH, et al. **Lab Anim Sci** 1996 Dec;46(6):628–34

Non–value of Aspergillus antigen detection in bronchoalveolar lavage fluids of patients undergoing bone marrow transplantation. Rath PM, et al. **Mycoses** 1996 Sep–Oct;39(9–10):367–70

Pulmonary mucormycosis diagnosed by bronchoalveolar lavage: a case report and review of the literature. al–Abbadi MA, et al. **Pediatr Pulmonol** 1997 Mar;23(3):222–5 (14 ref.)

Conditional evaluation of broncho–alveolar lavage in mechanically ventilated patients with suspected unilateral lobar pneumonia. Prekates A, et al. **S Afr Med J** 1997 May; 87(5 Suppl):643–8

RNA amplification for direct detection of mycobacterium tuberculosis in respiratory samples. Hoffner SE, et al. **Scand J Infect Dis** 1996;28(1):59–61

Rapid microscopic detection of cytomegalovirus and PCP in bronchoalveolar lavage specimens. Stead JA, et al. **W V Med J** 1996 Jul–Aug;92(4):197–8

Detection of Mycoplasma sp. in bronchoalveolar lavage of AIDS patients with pulmonary infiltrates. Sloot N, et al. **Zentralbl Bakteriol** 1996 Jun;284(1):75–9

[Chlamydia pneumoniae pneumonia in hospitalized patients. Clinical characteristics and diagnostic value of polymerase chain reaction detection in bronchoalveolar lavage] Lorenz J. **Pneumologie** 1997 May;51(5):503–4 **(Ger)**

[Pneumocystis carinii pneumonia associated with high levels of serum KL–6] Kawakami R, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1420–6 (Eng. Abstr.) **(Jpn)**

[Changes in the microflora of the sputum and the bronchoalveolar fluid in patients with acute and protracted pneumonias] Landyshev SIu. **Probl Tuberk** 1996;(4):41–3 (Eng. Abstr.) **(Rus)**

[Management of patients with severe pneumonia in mechanical ventilation: usefulness of bronchoalveolar lavage] Saldías F, et al. **Rev Med Chil** 1996 Aug; 124(8):950–8 (Eng. Abstr.) **(Spa)**

PARASITOLOGY

Pulmonary toxoplasmosis in patients infected with human immunodeficiency virus: a French National Survey. Rabaud C, et al. **Clin Infect Dis** 1996 Dec;23(6):1249–54

Cytologic identification of Toxoplasma gondii in bronchoalveolar lavage fluid of experimentally infected cats. Hawkins EC, et al. **J Am Vet Med Assoc** 1997 Mar 1;210(5):648–50

VIROLOGY

Cytomegalovirus: the monster in the closet? [editorial] Baughman RP. **Am J Respir Crit Care Med** 1997 Jul; 156(1):1–2

Detection of rhinovirus RNA in lower airway cells during experimentally induced infection. Gern JE, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1159–61

Lack of clinical utility of bronchoalveolar lavage cultures for cytomegalovirus in HIV infection. Mann M, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1723–8

Rapid detection cytomegalovirus pneumonia in recipients of bone marrow transplant: evaluation and comparison of five survey methods for bronchoalveolar lavage fluid. Goto H, et al. **Bone Marrow Transplant** 1996 May;17(5):855–60

Comparison of cytomegalovirus (CMV) antigenemia and CMV in bronchoalveolar lavage fluid for diagnosis of CMV pulmonary infection after bone marrow transplantation. Sakamaki H, et al. **Bone Marrow Transplant** 1997 Jul;20(2):143–7

Should cytomegalovirus be tested for in both blood and bronchoalveolar lavage fluid of patients at a high risk of CMV pneumonia after bone marrow transplantation? Ibrahim A, et al. **Br J Haematol** 1997 Jul;98(1):222–7

Bronchoalveolar lavage in mixed cryoglobulinaemia associated with hepatitis C virus. Manganelli P, et al. **Br J Rheumatol** 1996 Oct;35(10):978–82

Rapid detection of cytomegalovirus in bronchoalveolar lavage fluid and serum samples by polymerase chain reaction: correlation of virus isolation and clinical outcome for patients with human immunodeficiency virus infection. Hansen KK, et al. **Clin Infect Dis** 1997 May;24(5):878–83

Respiratory distress in a patient with skin lesions. Humphrey D, et al. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):33–4

Search for human herpesvirus 6 and human cytomegalovirus in bronchoalveolar lavage from patients with human immunodeficiency virus–1 and respiratory disorders. Portolani M, et al. **J Med Virol** 1996 Feb;48(2):179–83

Human herpes virus–8 DNA in bronchoalveolar lavage samples from patients with AIDS–associated pulmonary Kaposi's sarcoma. Benfield TL, et al. **Scand J Infect Dis** 1997;29(1):13–6

Predictive value of cytomegalovirus DNA detection by polymerase chain reaction in blood and bronchoalveolar lavage in lung transplant patients. Stéphan F, et al. **Transplantation** 1997 May 27;63(10):1430–5

BRONCHOCONSTRICTION

see related
BRONCHIAL PROVOCATION TESTS
BRONCHOCONSTRICTOR AGENTS

Relationship between loss in parenchymal elastic recoil pressure and maximal airway narrowing in subjects with alpha1–antitrypsin deficiency. Cheung D, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):135–40

Airway closure measured by a technegas bolus and SPECT. King GG, et al. **Am J Respir Crit Care Med** 1997 Feb; 155(2):682–8

Exercise–induced bronchoconstriction in healthy athletes [letter; comment] Bogaard JM, et al. **Chest** 1996 Oct; 110(4):1127. Comment on: Chest 1996 Feb;109(2):312–5.

The effect of inhaled K+ channel openers on bronchoconstriction and airway microvascular leakage in anaesthetised guinea pigs. Kidney JC, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):81–7

Characteristics of vagal reflex–mediated tracheal response induced by bronchoconstriction in guinea pigs. Takahashi Y, et al. **Eur J Pharmacol** 1996 Apr 29;302(1–3):89–97

Cold air–induced bronchoconstriction is mediated by tachykinin and kinin release in guinea pigs. Yoshihara S, et al. **Eur J Pharmacol** 1996 Feb 5;296(3):291–6

Demonstration of the therapeutic potential of non–anaphylactogenic anti–IgE antibodies in murine models of skin reaction, lung function and inflammation. Heusser CH, et al. **Int Arch Allergy Immunol** 1997 May–Jul; 113(1–3):231–5

Cyclooxygenase–2–dependent bronchoconstriction in perfused rat lungs exposed to endotoxin. Uhlig S, et al. **Mol Med** 1996 May;2(3):373–83

Maximal forced expiratory maneuver to measure airway obstruction in anesthetized guinea pigs. Lin CC, et al. **Respiration** 1997;64(4):257–62

Association of anxiety with perception of histamine induced bronchoconstriction in patients with asthma. Spinhoven P, et al. **Thorax** 1997 Feb;52(2):149–52

[Participation of tachykinins in experimental models of lung damage] Atzori L, et al. **G Ital Med Lav** 1995 Jan–Nov; 17(1–6):65–70 (Eng. Abstr.) **(Ita)**

DRUG EFFECTS

Time course of methacholine induced bronchoconstriction during drugs and spontaneous resolution. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):70–4

Endothelin–1–induced bronchoconstriction in asthma. Chalmers GW, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):382–8

Lactoferrin, a potent tryptase inhibitor, abolishes late–phase airway responses in allergic sheep. Elrod KC, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):375–81

Intravenous lidocaine and oral mexiletine block reflex bronchoconstriction in asthmatic subjects. Groeben H, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):885–8

Methacholine responsiveness using the raised volume forced expiration technique in infants. Hayden MJ, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1670–5

Synergistic effect of nitric oxide and vasoactive intestinal peptide on bronchoprotection against histamine in anesthetized guinea pigs. Kanazawa H, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):747–50

Nebulized glutathione induces bronchoconstriction in patients with mild asthma. Marrades RM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):425–30

Roles of calcitonin gene–related peptide (CGRP) in hyperpnea–induced constriction in guinea pigs. Nagase T, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1551–6

Prolonged effect of tiotropium bromide on methacholine–induced bronchoconstriction in asthma. O'Connor BJ, et al. **Am J Respir Crit Care Med** 1996 Oct; 154(4 Pt 1):876–80

Attenuation of aspirin–induced bronchoconstriction by sodium cromoglycate and nedocromil sodium. Robuschi M, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1461–4

Effect of inhaled indomethacin on exercise–induced bronchoconstriction in children with asthma. Shimizu T, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):170–3

The effect of ABT–761, a novel 5–lipoxygenase inhibitor, on exercise– and adenosine–induced bronchoconstriction in asthmatic subjects. Van Schoor J, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):875–80

Safety of one method of sputum induction in asthmatic subjects. Wong HH, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):299–303

An inhaled glucocorticoid does not prevent tolerance to the bronchoprotective effect of a long–acting inhaled beta 2–agonist. Yates DH, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1603–7

Prevention of lidocaine aerosol–induced bronchoconstriction with intravenous lidocaine. Bulut Y, et al. **Anesthesiology** 1996 Oct;85(4):853–9

Ipratropium decreases airway size in dogs by preferential M2 muscarinic receptor blockade in vivo. Groeben H, et al. **Anesthesiology** 1996 Oct;85(4):867–73

The effect of isoflurane, halothane, sevoflurane, and thiopental/nitrous oxide on respiratory system resistance after tracheal intubation. Rooke GA, et al. **Anesthesiology** 1997 Jun;86(6):1294–9

Inhibition of airway constriction by opioids is different down the isolated bovine airway. Zappi L, et al. **Anesthesiology** 1997 Jun;86(6):1334–41

Effect of inhaled furosemide and cromolyn on bronchoconstriction induced by ultrasonically nebulized distilled water in asthmatic subjects. Siffredi M, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):238–43

Alpha–adrenergic bronchoconstriction in man. Marcelle R. **Arch Physiol Biochem** 1996 Dec;104(7):851–4

Phosphodiesterase inhibitors prevent endothelin–1–induced vasoconstriction, bronchoconstriction, and thromboxane release in perfused rat lung. Held HD, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):22–5

In vivo assessment of droperidol–induced bronchial relaxation in dogs using a superfine fibreoptic bronchoscope. Otomo N, et al. **Br J Anaesth** 1997 May; 78(5):579–82

The spasmogenic effects of vanadate in human isolated bronchus. Cortijo J, et al. **Br J Pharmacol** 1997 Aug; 121(7):1339–49

Necessity of dual blockade of endothelin ETA and ETB receptor subtypes for antagonism of endothelin–1–induced contraction in human bronchi. Fukuroda T, et al. **Br J Pharmacol** 1996 Mar;117(6):995–9

Effects of FR173657, a non–peptide B2 antagonist, on kinin–induced hypotension, visceral and peripheral oedema formation and bronchoconstriction. Griesbacher T, et al. **Br J Pharmacol** 1997 Mar;120(5):933–9

Characterization of adenosine receptors involved in adenosine–induced bronchoconstriction in allergic rabbits. el–Hashim A, et al. **Br J Pharmacol** 1996 Nov;119(6):1262–8

Inhibition of bronchospasm and ozone–induced airway hyperresponsiveness in the guinea–pig by CDP840, a novel phosphodiesterase type 4 inhibitor. Holbrook M, et al. **Br J Pharmacol** 1996 Jul;118(5):1192–200

The inhibition of antigen–induced eosinophilia and bronchoconstriction by CDP840, a novel stereo–selective inhibitor of phosphodiesterase type 4. Hughes B, et al. **Br J Pharmacol** 1996 Jul;118(5):1183–91

KW–4679–induced inhibition of tachykininergic contraction in the guinea–pig bronchi by prejunctional inhibition of peripheral sensory nerves [published erratum appears in Br J Pharmacol 1996 Jul;118(6):1565] Ikemura T, et al. **Br J Pharmacol** 1996 Mar;117(5):967–73

Canine bronchial sustained contraction in Ca2+–free medium: role of intracellular Ca2+. Montaño LM, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1236–48

Effect of inhaled salmeterol on sulfur dioxide–induced bronchoconstriction in asthmatic subjects. Gong H Jr, et al. **Chest** 1996 Nov;110(5):1229–35

Pharmacology of leukotriene receptor antagonists. More than inhibitors of bronchoconstriction. Hay DW. **Chest** 1997 Feb;111(2 Suppl):35S–45S (131 ref.)

Effect of inhaled magnesium sulfate on sodium metabisulfite–induced bronchoconstriction in asthma. Nannini LJ Jr, et al. **Chest** 1997 Apr;111(4):858–61

Role of sensory neuropeptides in post–allergic propranolol–induced bronchoconstriction in guinea pigs in vivo [see comments] Fujimura M, et al. **Clin Exp Allergy** 1996 Dec;26(12):1428–35. Comment in: Clin Exp Allergy 1996 Dec;26(12):1343–6.

The inhibitory effect of TMK688, a novel anti–allergic drug having both 5–lipoxygenase inhibitory activity and anti–histamine activity, against bronchoconstriction, leukotriene production and inflammatory cell infiltration in sensitized guinea pigs. Tohda Y, et al. **Clin Exp Allergy** 1997 Jan;27(1):110–8

Calcitonin gene–related peptide antagonizes the protective effect of adrenomedullin on histamine–induced bronchoconstriction. Kanazawa H, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):472–5

Tachykinin receptors and non–cholinergic bronchoconstriction in the anaesthetized guinea–pig. Yuan L, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):119–24

Montelukast causes prolonged, potent leukotriene D4–receptor antagonism in the airways of patients with asthma. De Lepeleire I, et al. **Clin Pharmacol Ther** 1997 Jan;61(1):83–92

Reproducibility of airway response to inhaled bradykinin and effect of the neurokinin receptor antagonist FK–224 in asthmatic subjects. Schmidt D, et al. **Eur J Clin Pharmacol** 1996;50(4):269–73

Bronchoprotective effects of KF–19514 and cilostazol in guinea pigs in vivo. Fujimura M, et al. **Eur J Pharmacol** 1997 May 26;327(1):57–63

Dysfunctional muscarinic M2 autoreceptors in vagally induced bronchoconstriction of conscious guinea pigs after the early allergic reaction. Ten Berge RE, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):131–9

Effects of specific tachykinin receptor antagonists on citric acid–induced cough and bronchoconstriction in unanesthetized guinea pigs. Yasumitsu R, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):215–9

Salmeterol in exercise–induced bronchoconstriction in asthmatic children: comparison of two doses [published erratum appears in Eur Respir J 1997 Jan;10(1):256] de Benedictis FM, et al. **Eur Respir J** 1996 Oct;9(10):2099–103

Involvement of PAF in postallergic propranolol–induced bronchoconstriction in guinea–pigs. Fujimura M, et al.

Eur Respir J 1996 Oct;9(10):2064–9
Mast cell tryptase potentiates histamine–induced contraction in human sensitized bronchus. Johnson PR, et al.
Eur Respir J 1997 Jan;10(1):38–43
Role of tachykinins in bronchoconstriction induced by intravenous administration of bradykinin in guinea–pigs. Kuroiwa C, et al. **Eur Respir J** 1996 Apr;9(4):741–6
Videomicroscopy of methacholine–induced contraction of individual airways in precision–cut lung slices. Martin C, et al. **Eur Respir J** 1996 Dec;9(12):2479–87
Activity of inhaled lysine acetylsalicylate (L–ASA) on bradykinin–induced bronchoconstriction in asthmatics: evidence of contribution of prostaglandins. Polosa R, et al. **Eur Respir J** 1997 Apr;10(4):866–71
Methylprednisolone attenuates airway and vascular responses induced by reactive oxygen species in isolated, plasma–perfused rat lungs. Kjaeve J, et al.
Free Radic Res 1996 Nov;25(5):407–14
Aerosolized tachykinin antagonists inhibit pentamidine–induce bronchoconstriction in guinea pigs. Jarreau PH, et al. **Fundam Clin Pharmacol** 1996; 10(6):518–23
Role of tachykinins in enhancement of bradykinin–induced bronchoconstriction by captopril. Arakawa M, et al.
Inflamm Res 1996 Feb;45(2):75–82
Protective activity of ketoprofen lysine salt against the pulmonary effects induced by bradykinin in guinea–pigs. Daffonchio L, et al. **Inflamm Res** 1996 May;45(5):259–64
Characterization of a primate model of asthma using anti–allergy/anti–asthma agents. Turner CR, et al.
Inflamm Res 1996 May;45(5):239–45
Adenosine modulates endothelin–induced bronchoconstriction in guinea pig airway. Kanazawa H, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):83–7
Prolonged protection against exercise–induced bronchoconstriction by the leukotriene D4–receptor antagonist cinalukast. Adelroth E, et al.
J Allergy Clin Immunol 1997 Feb;99(2):210–5
Protective effect of inhaled budesonide against unlimited airway narrowing to methacholine in atopic patients with asthma. Booms P, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):330–7
Effects of nedocromil sodium on airway neurogenic mechanisms. Chung KF. **J Allergy Clin Immunol** 1996 Nov; 98(5 Pt 2):S112–6; discussion S116–7 (53 ref.)
Time course of changes in adenosine 5'–monophosphate airway responsiveness with inhaled heparin in allergic asthma. Polosa R, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):338–44
Effect of furosemide on hyperpnea–induced airway obstruction, injury, and microvascular leakage. Freed AN, et al. **J Appl Physiol** 1996 Dec;81(6):2461–7
Role of tachykinins in sulfur dioxide–induced bronchoconstriction in anesthetized guinea pigs. Hajj AM, et al. **J Appl Physiol** 1996 Jun;80(6):2044–50
ET–1–induced bronchoconstriction is mediated via ETB receptor in mice. Nagase T, et al. **J Appl Physiol** 1997 Jul;83(1):46–51
Eicosanoids modulate hyperpnea–induced bronchoconstriction in canine peripheral airways. Omori C, et al. **J Appl Physiol** 1996 Sep;81(3):1255–63
Methacholine–induced bronchoconstriction in rats: effects of intravenous vs. aerosol delivery. Peták F, et al.
J Appl Physiol 1997 May;82(5):1479–87
Effect of thromboxane A2–receptor antagonist on bradykinin–induced bronchoconstriction in asthma. Rajakulasingam K, et al. **J Appl Physiol** 1996 Jun; 80(6):1973–7
Methacholine–induced bronchoconstriction and airway smooth muscle in the guinea pig. Saez AO, et al.
J Appl Physiol 1996 Feb;80(2):437–44
Airway wall dimensions during carbachol–induced bronchoconstriction in rabbits. Sasaki F, et al.
J Appl Physiol 1996 Oct;81(4):1578–83
Effect of pretreatment with heparin on pulmonary and cutaneous response. Kalpaklioğlu AF, et al. **J Asthma** 1997; 34(4):337–43
Bronchoconstriction and eosinophil recruitment in guinea pig lungs after platelet activating factor administration. Lin CC, et al. **J Asthma** 1997;34(2):153–60
Roxithromycin attenuates acid–induced cough and water–induced bronchoconstriction in children with asthma. Shimizu T, et al. **J Asthma** 1997;34(3):211–7
Acetylcholine–induced bronchoconstriction modified by noise exposure in normal but not in sensitized guinea–pigs. Nieri P, et al. **J Auton Pharmacol** 1996 Apr;16(2):55–62
The influence of misoprostol (synthetic analogue of prostaglandin E1) on aspirin–induced bronchoconstriction in aspirin–sensitive asthma. Szmidt M, et al.
J Investig Allergol Clin Immunol 1996 Mar–Apr;6(2):121–5
Effects of endothelin B antagonist RES–701–1 on endothelin–induced contractile responses in–vivo and in–vitro in guinea–pigs. Ikemura T, et al.
J Pharm Pharmacol 1996 Jan;48(1):100–5
Effects of adenosine on NANC bronchoconstriction in anaesthetized guinea–pigs. Nieri P, et al.
J Pharm Pharmacol 1996 Apr;48(4):422–8
ABT–761 attenuates bronchoconstriction and pulmonary inflammation in rodents. Bell RL, et al.
J Pharmacol Exp Ther 1997 Mar;280(3):1366–73
Functional evidence of excitatory M1 receptors in the rabbit airway. Matsumoto S. **J Pharmacol Exp Ther** 1997 Apr; 281(1):531–9
Inhibitory effect of KW–4679, an anti–allergic drug, on tachykinin–mediated airway response induced by electrical vagal stimulation in guinea pigs. Ikemura T, et al.
Jpn J Pharmacol 1996 Jun;71(2):179–82
Inhibitory effect of a novel phosphodiesterase IV inhibitor, T–440, on antigen– and chemical mediator–induced bronchoconstrictions in guinea pigs in vivo. Kaminuma O, et al. **Jpn J Pharmacol** 1996 Sep;72(1):1–8
PGF2 alpha causes bronchoconstriction and pulmonary vasoconstriction via thromboxane receptors in rat lung. Kang KH, et al. **Korean J Intern Med** 1996 Jan;11(1):74–81
Complete resolution of airway hyperresponsiveness in aspirin–sensitive asthmatic patients. Park HS.
Korean J Intern Med 1996 Jun;11(2):157–60
Furosemide–induced bronchodilation in the rat bronchus: evidence of a role for prostaglandins. Almirall JJ, et al. **Lung** 1997;175(3):155–63
Pharmacological characteristics of leukotriene antagonists. Nicosia S. **Monaldi Arch Chest Dis** 1996 Dec;51(6):556
The role of nitric oxide synthase pathway on bradykinin–induced bronchoconstriction in guinea–pigs and in man. Ricciardolo FL, et al.
Monaldi Arch Chest Dis 1996 Dec;51(6):543–7 (52 ref.)
KATP channel openers reverse immune complex–induced airways hyperreactivity independently of smooth muscle relaxation. Buchheit KH, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 Aug–Sep; 354(3):355–61
In vitro and in vivo effects of SCA40 on guinea pig airways. Buchheit KH, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 Feb; 355(2):217–23
Rat big endothelin–1–induced bronchoconstriction and vasoconstriction in the isolated perfused rat lung: role of endothelin converting enzyme and neutral endopeptidase 24.11. Held HD, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 May; 355(5):619–24
The effect of the selective PAF antagonist CIS–19 on PAF– and antigen–induced bronchoconstriction, microvascular leakage and bronchial hyperreactivity in guinea–pigs. Lin CH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):210–6
The equivalent bronchodilator effects of salbutamol formulated in chlorofluorocarbon and hydrofluoroalkane–134a metered dose inhalers on the histamine–induced pulmonary response in dogs.
Nogami–Itoh M, et al. **Pharm Res** 1997 Feb;14(2):208–12
Sch 37224, an experimental antiallergy compound, inhibits the neuropeptide component of hyperventilation– and nicotine–induced bronchoconstriction in guinea pigs. Mauser PJ, et al. **Pharmacology** 1997 Jan;54(1):8–15
Inhibitory effects of pituitary adenylate cyclase activating polypeptide on histamine–induced respiratory resistance in anesthetized guinea pigs. Saguchi Y, et al. **Regul Pept** 1997 May 14;70(1):9–13
Sodium metabisulfite and citric acid induce bronchoconstriction via a sulfite–sensitive pathway in the isolated guinea pig lung. Atzori L, et al. **Respiration** 1997; 64(2):145–51
Adenosine monophosphate and histamine induced bronchoconstriction: repeatability and protection by terbutaline. Egbagbe E, et al. **Thorax** 1997 Mar; 52(3):239–43
Potentiation of the bronchoprotective effects of vasoactive intestinal peptide, isoprenaline, and theophylline against histamine challenge in anaesthetised guinea pigs by adrenomedullin. Kanazawa H, et al. **Thorax** 1996 Dec; 51(12):1199–202
Effect of pranlukast, an oral leukotriene receptor antagonist, on leukotriene D4 (LTD4) challenge in normal volunteers. O'Shaughnessy TC, et al. **Thorax** 1997 Jun;52(6):519–22
Evidence for adrenergic and tachykinin activity in venom of the stonefish (Synanceja trachynis). Hopkins BJ, et al.
Toxicon 1996 May;34(5):541–54
[Tachyphylaxis of airway response to inhaled bradykinin over several days] Schmidt D, et al. **Pneumologie** 1996 Nov; 50(11):779–82 (Eng. Abstr.) **(Ger)**
[Inhibitory effect of low molecular weight heparin on the bronchoconstriction in ovalbumin–sensitized guinea pigs after antigen exposure] Maeda H, et al. **Arerugi** 1995 Nov; 44(11):1282–9 (Eng. Abstr.) **(Jpn)**
[Effect of amrinone and vagotomy on airway constriction in dogs: analysis by respiratory system impedance method] Miyazawa N. **Masui** 1997 Jan;46(1):31–41 (Eng. Abstr.) **(Jpn)**
[The effect of droperidol and sevoflurane on serotonin–induced bronchoconstriction in dog] Nakaoji T, et al. **Masui** 1996 Jun;45(6):698–706 (Eng. Abstr.) **(Jpn)**
[Hypertonic saline induced bronchoconstriction in sensitized rabbits] Morimoto R, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1996 May; 34(5):545–51 (Eng. Abstr.) **(Jpn)**
[Effect of a novel tachykinin NK–2–receptor antagonist, TAC–363, on bronchoconstriction and airway hyperresponsiveness in guinea pigs] Higashide Y, et al.
Nippon Yakurigaku Zasshi 1997 Jan;109(1):19–29 (Eng. Abstr.) **(Jpn)**
[Magnesium sulfate in management of bronchial asthma] Emel'ianova AV, et al. **Klin Med (Mosk)** 1996;74(8):55–8 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Mechanisms of allergic bronchoconstriction in the rat. Martin JG. **Adv Exp Med Biol** 1996;409:9–15 (21 ref.)
Anaphylactic bronchoconstriction in immunized guinea pigs provoked by inhalation and intravenous administration of hexahydrophthalic anhydride and methyltetrahydrophthalic anhydride. Zhao H, et al.
Allergy 1997 Jan;52(1):18–26
Evidence for major basic protein immunoreactivity and interleukin 5 gene activation during the late phase response in explanted airways. Eidelman DH, et al.
Am J Respir Cell Mol Biol 1996 Nov;15(5):582–9
Inhibition of antigen–induced acute bronchoconstriction, airway hyperresponsiveness, and mast cell degranulation by a nonanticoagulant heparin: comparison with a low molecular weight heparin. Ahmed T, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):1848–55
Effect of surfactant inhalation on allergic bronchoconstriction in guinea pigs. Kurashima K, et al.
Clin Exp Allergy 1997 Mar;27(3):337–42
Repeated allergen exposure enhances excitatory nonadrenergic noncholinergic nerve–mediated bronchoconstriction in sensitized guinea–pigs. Kageyama N, et al. **Eur Respir J** 1996 Jul;9(7):1439–44
In vitro T–lymphocyte response and house dust mite–induced bronchoconstriction. Chang JH, et al.
J Allergy Clin Immunol 1996 Nov;98(5 Pt 1):922–31

PHYSIOLOGY

PAMP is a novel inhibitor of the tachykinin release in the airway of guinea pigs. Kanazawa H, et al.
Am J Physiol 1997 Jun;272(6 Pt 1):L1066–9
Endogenous nitric oxide and allergic bronchial hyperresponsiveness in guinea pigs. Mehta S, et al.
Am J Physiol 1997 Sep;273(3 Pt 1):L656–62
Eosinophil VLA–4 binding to fibronectin augments bronchial narrowing through 5–lipoxygenase activation. Muñoz NM, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L587–94
Heterogeneity of allergic airway responses in sheep: differences in signal transduction? Ahmed T, et al.
Am J Respir Crit Care Med 1996 Oct;154(4 Pt 1):843–9
Proventil HFA provides protection from exercise–induced bronchoconstriction comparable to proventil and ventolin. Dockhorn RJ, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):85–8
The multilevel mechanical behaviour of the lung during induced bronchoconstriction. Bates JH.
Australas Phys Eng Sci Med 1996 Jun;19(2):35–45 (41 ref.)
Involvement of hydroxyl radicals in neurogenic airway plasma exudation and bronchoconstriction in guinea–pigs in vivo. Lei YH, et al. **Br J Pharmacol** 1996 Feb; 117(3):449–454
The role of the collagenous and elastic system fibers in modulating bronchoconstriction. Mauad T, et al.
Braz J Med Biol Res 1996 Sep;29(9):1195–9
Role of thromboxane–A2 and cholinergic mechanisms in bronchoconstriction induced by cigarette smoke in guinea–pigs. Matsumoto K, et al. **Eur Respir J** 1996 Dec; 9(12):2468–73
On the causes of lung hyperinflation during bronchoconstriction. Pellegrino R, et al. **Eur Respir J** 1997 Feb;10(2):468–75 (58 ref.)
Neural reflex–mediated tracheal response during bronchoconstriction induced by ovalbumin antigen in guinea pigs. Takahashi Y, et al. **Gen Pharmacol** 1997 Mar; 28(3):399–404
Breathlessness and exercise capacity in heart failure: the role of bronchial obstruction and responsiveness. Evans SA, et al. **Int J Cardiol** 1996 Dec 13;57(3):233–40
Inhibitory effect of indomethacin on tachyphylaxis in response to acetaldehyde–induced bronchoconstriction in patients with asthma. Fujimura M, et al.
J Allergy Clin Immunol 1997 May;99(5):620–3
Late allergic airway response to segmental bronchopulmonary provocation in allergic subjects is related to peripheral blood basophil histamine release. Jarjour NN, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):87–93
Temporal dynamics of acute isovolume bronchoconstriction in the rat. Bates JH, et al. **J Appl Physiol** 1997 Jan; 82(1):55–62
Partitioning airway and lung tissue resistances in humans: effects of bronchoconstriction. Kaczka DW, et al.
J Appl Physiol 1997 May;82(5):1531–41
Lung mechanics during induced bronchoconstriction. Pellegrino R, et al. **J Appl Physiol** 1996 Aug;81(2):964–75
Effect of stochastic heterogeneity on lung impedance during acute bronchoconstriction: a model analysis. Thorpe CW, et al. **J Appl Physiol** 1997 May;82(5):1616–25
In vitro bronchial responsiveness in two highly inbred rat strains. Wang CG, et al. **J Appl Physiol** 1997 May; 82(5):1445–52
Hyperpnea–induced bronchoconstriction is dependent on tachykinin–induced cysteinyl leukotriene synthesis. Yang XX, et al. **J Appl Physiol** 1997 Feb;82(2):538–44
Comparison between peak expiratory flow and forced expiratory volume in one second (FEV1) during bronchoconstriction induced by different stimuli. Giannini D, et al. **J Asthma** 1997;34(2):105–11
Bradykinin–induced airway contraction in two lines of guinea pigs with congenitally different airway sensitivity. Tsubone

H, et al. **J Vet Med Sci** 1997 Jul;59(7):613–5

Role of superoxide anions in airway hyperresponsiveness induced by cigarette smoke in conscious guinea pigs. Nishikawa M, et al. **Lung** 1996;174(5):279–89

Exercise-induced bronchoconstriction: elucidating the roles of leukotrienes and prostaglandins. O'Byrne PM. **Pharmacotherapy** 1997 Jan–Feb;17(1 Pt 2):31S–38S (39 ref.)

Uncoupling in the wall of the cartilaginous bronchus of the pig produced by smooth muscle contraction. Mitchell HW, et al. **Pulm Pharmacol** 1996 Feb;9(1):29–34

Central 5-HT1A and 5-HT1D receptors modulate reflex bronchoconstriction in guinea-pigs. Ramage AG, et al. **Pulm Pharmacol** 1996 Oct–Dec;9(5–6):369–70

Involvement of NO–ergic neural pathway in reflex tracheal dilatation during bronchoconstriction in guinea pigs. Takahashi Y, et al. **Res Commun Mol Pathol Pharmacol** 1996 Sep;93(3):289–99

Beta 2– but not beta 1–adrenoceptors mediate the adrenergic component of reflex tracheal dilatation during bronchoconstriction in guinea pigs in vivo. Takahashi Y, et al. **Res Commun Mol Pathol Pharmacol** 1996 Sep; 93(3):301–18

Effect of the route and mode of agonist delivery on functional behaviour of the airways. Salerno FG, et al. **Respir Physiol** 1996 Oct;106(1):71–80

Oxygen radicals in the nonvagal component of noncholinergic airway constriction. Zhang HQ, et al. **Respir Physiol** 1996 Jul;104(2–3):213–20

Abdominal muscle recruitment and PEEPi during bronchoconstriction in chronic obstructive pulmonary disease. Gorini M, et al. **Thorax** 1997 Apr;52(4):355–61

Evaluation of nocturnal bronchoconstriction by all night tracheal sound monitoring. Lenclud C, et al. **Thorax** 1996 Jul;51(7):694–8

Histamine induced bronchoconstriction and end tidal inspiratory activity in man. Meessen NE, et al. **Thorax** 1996 Dec;51(12):1192–8

BRONCHOCONSTRICTOR AGENTS

Effect of acute alterations in inspired oxygen tension on methacholine induced bronchoconstriction in patients with asthma. Dagg KD, et al. **Thorax** 1997 May;52(5):453–7

ADMINISTRATION & DOSAGE

Endothelin–1–induced bronchoconstriction in asthma. Chalmers GW, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):382–8

The effect of inhaled leukotriene D4 and methacholine on sputum cell differentials in asthma. Diamant Z, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1247–53

The association between baseline lung function and bronchial responsiveness to methacholine. Wassmer G, et al. **Eur J Med Res** 1997 Feb 21;2(2):47–54

Comparison of early and late asthmatic responses between patients with allergic rhinitis and mild asthma. Bonavia M, et al. **Eur Respir J** 1996 May;9(5):905–9

Effect of inhaled prostaglandin D2 in normal and atopic subjects, and of pretreatment with leukotriene D4. Sampson SE, et al. **Thorax** 1997 Jun;52(6):513–8

ANTAGONISTS & INHIBITORS

Effects of inhaled budesonide on allergen–induced airway responses and airway inflammation. Gauvreau GM, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1267–71

[Effect of amrinone and vagotomy on airway constriction in dogs: analysis by respiratory system impedance method] Miyazawa N. **Masui** 1997 Jan;46(1):31–41 (Eng. Abstr.) **(Jpn)**

DIAGNOSTIC USE

Time course of methacholine induced bronchoconstriction during drugs and spontaneous resolution. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):70–4

Sensitivity of FEV1 and indices of flow volume curve in the methacholine test. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):75–80

Interpretation of positive results of a methacholine inhalation challenge and 1 week of inhaled bronchodilator use in diagnosing and treating cough–variant asthma. Irwin RS, et al. **Arch Intern Med** 1997 Sep 22;157(17):1981–7

Bronchial subepithelial fibrosis correlates with airway responsiveness to methacholine. Boulet LP, et al. **Chest** 1997 Jul;112(1):45–52

Methacholine challenge testing: safety of low starting FEV1. Asthma Clinical Research Network (ACRN). Martin RJ, et al. **Chest** 1997 Jul;112(1):53–6

Repeatability of a rapid dosimetric method for methacholine challenge using a pocket turbine spirometer for FEV1 measurements. Hedman J, et al. **Clin Physiol** 1996 Jul; 16(4):353–9

Acute bronchial obstruction following inhalation of PAF in asthmatic and normal subjects: comparison with methacholine. Louis RE, et al. **Eur Respir J** 1996 Jul; 9(7):1414–20

Effect of inhaled heparin on adenosine–induced bronchial hyperreactivity. Ceyhan BB, et al. **Int J Clin Pharmacol Ther** 1997 May;35(5):208–13

Methacholine dose–response slopes from maximal bronchial challenge tests in asthmatic children: methodological aspects. Gamboa T, et al. **Lung** 1997;175(4):243–52

Differences in the effect of allergen avoidance on bronchial hyperresponsiveness as measured by methacholine, adenosine 5'–monophosphate, and exercise in asthmatic children. Benckhuijsen J, et al. **Pediatr Pulmonol** 1996 Sep; 22(3):147–53

Respiratory system reactance as an indicator of the intrathoracic airway response to methacholine in children. Bouaziz N, et al. **Pediatr Pulmonol** 1996 Jul;22(1):7–13

Differential inhibitory effect of regular inhaled corticosteroid on airway responsiveness to adenosine 5' monophosphate, methacholine, and bradykinin in symptomatic children with recurrent wheeze. Doull IJ, et al. **Pediatr Pulmonol** 1997 Jun;23(6):404–11

Repeatability of methacholine challenges in 2– to 4–year–old children with asthma, using a new technique for quantitative delivery of aerosol. Klug B, et al. **Pediatr Pulmonol** 1997 Apr;23(4):278–86

Effect of age, height, and prechallenge respiratory resistance on bronchial hyperresponsiveness in childhood asthma using the forced oscillation technique. Mochizuki H, et al. **Pediatr Pulmonol** 1996 Jul;22(1):1–6

Lung auscultation in airway challenge testing. Purohit A, et al. **Respir Med** 1997 Mar;91(3):151–7

Factors affecting oxygen saturation during methacholine challenge in a mixed population. Renwick DS, et al. **Respir Med** 1996 Sep;90(8):473–7

Magnitude and determinants of short–term tachyphylaxis to methacholine in subjects with symptomatic or asymptomatic airway hyperresponsiveness and in normal controls. Laprise C, et al. **Respiration** 1996;63(5):304–8

Standardization of methacholine inhalation challenge. Sekerel BE, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):165–72

[Recommendations for implementing bronchial provocation tests with pharmacologic substances. German Society of Pneumology--Scientific "Bronchial Provocation Tests" Study Group (see comments)] Klein G. **Med Klin** 1997 Aug 15;92(8):458–63. Comment in: Med Klin 1997 Aug 15;92(8):492–3. **(Ger)**

[Is the bronchial provocation test a provocation? (editorial; comment)] Nolte D. **Med Klin** 1997 Aug 15;92(8):492–3. Comment on: Med Klin 1997 Aug 15;92(8):458–63. **(Ger)**

[Study of spontaneous resolution of bronchial spasm after methacholine challenge. Comparison of patients with different degree of hyperreactivity] Mannino F, et al. **Recenti Prog Med** 1997 Mar;88(3):115–9 (Eng. Abstr.) **(Ita)**

PHARMACOLOGY

Effect of inhaled magnesium sulfate on sodium metabisulfite–induced bronchoconstriction in asthma. Nannini LJ Jr, et al. **Chest** 1997 Apr;111(4):858–61

Airway hyperresponsiveness to methacholine in subjects with spinal cord injury. Singas E, et al. **Chest** 1996 Oct; 110(4):911–5

Effect of capsaicin inhalation on methacholine responsiveness in normal subjects. Fujimura M, et al. **Clin Auton Res** 1996 Feb;6(1):45–8

Videomicroscopy of methacholine–induced contraction of individual airways in precision–cut lung slices. Martin C, et al. **Eur Respir J** 1996 Dec;9(12):2479–87

Lung mechanics during induced bronchoconstriction. Pellegrino R, et al. **J Appl Physiol** 1996 Aug;81(2):964–75

Methacholine–induced bronchoconstriction in rats: effects of intravenous vs. aerosol delivery. Peták F, et al. **J Appl Physiol** 1997 May;82(5):1479–87

Methacholine–induced bronchoconstriction and airway smooth muscle in the guinea pig. Saez AO, et al. **J Appl Physiol** 1996 Feb;80(2):437–44

Bronchoprovocation with methacholine in children under two years old: a follow–up study. Guirau LM, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):110–4

The effect of oxygen tension on responses evoked by methacholine and bronchodilators in bovine isolated bronchial rings. Clayton RA, et al. **Pulm Pharmacol** 1996 Apr;9(2):123–8

Effect of leukotriene D4 on ciliary activity in human, guinea–pig and rat respiratory mucosa. Joki S, et al. **Pulm Pharmacol** 1996 Aug;9(4):231–8

Airway sensory nerves in asthma—targets for therapy? Spina D, et al. **Pulm Pharmacol** 1996 Feb;9(1):1–18 (257 ref.)

Effect of 5–hydroxytryptamine on bioelectric properties of airway epithelial cells in culture. Tamaoki J, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun;92(3):285–98

Comparative evaluation of impulse oscillometry and a monofrequency forced oscillation technique in clinically healthy calves undergoing bronchochallenges. Reinhold P, et al. **Res Vet Sci** 1996 Nov;61(3):206–13

Sodium metabisulfite and citric acid induce bronchoconstriction via a sulfite–sensitive pathway in the isolated guinea pig lung. Atzori L, et al. **Respiration** 1997; 64(2):145–51

THERAPEUTIC USE

[The exercise bronchoconstriction test in the hyperreactive sports players and its report (letter)] Drobnic F. **Arch Bronconeumol** 1997 Apr;33(4):206 **(Spa)**

BRONCHODILATOR AGENTS

Salmeterol. A review of its pharmacological properties and clinical efficacy in the management of children with asthma. Adkins JC, et al. **Drugs** 1997 Aug;54(2):331–54 (172 ref.)

[The development of slow–release theophylline products and revaluation of theophylline's role as a bronchodilator] Mano K. **Nippon Rinsho** 1996 Nov;54(11):3093–101 (33 ref.) (Eng. Abstr.) **(Jpn)**

[Inhaled beta agonists as a bronchodilator are a mainstay of asthma therapy: focusing on inhaled beta agonists and oral theophylline] Nishimura K, et al. **Nippon Rinsho** 1996 Nov; 54(11):3073–7 (14 ref.) (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Continuous vs intermittent nebulized albuterol for emergency management of asthma. Khine H, et al. **Acad Emerg Med** 1996 Nov;3(11):1019–24

The effect of aerosolized furosemide in infants with chronic lung disease. Ohki Y, et al. **Acta Paediatr** 1997 Jun; 86(6):656–60

Formoterol inhaled as dry powder or via pressurized metered–dose inhaler in a cumulative dose–response study. Ullman A, et al. **Allergy** 1996 Oct;51(10):745–8

Effect of dose on the nasal absorption of epinephrine during cardiopulmonary resuscitation. Bleske BE, et al. **Am J Emerg Med** 1996 Mar;14(2):133–8

Should epinephrine be administered exclusively by the endotracheal route in respiratory arrest secondary to asthma? [letter] Leibman JB. **Am J Emerg Med** 1997 Jan; 15(1):106–7

Metered dose inhaler salbutamol treatment of asthma in the ED: comparison of two doses with plasma levels. Rodrigo G, et al. **Am J Emerg Med** 1996 Mar;14(2):144–50

Inhaled bronchodilator therapy in mechanically ventilated patients. Dhand R, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):3–10 (78 ref.)

Inhaled salmeterol or oral theophylline in nocturnal asthma? Selby C, et al. **Am J Respir Crit Care Med** 1997 Jan; 155(1):104–8

An inhaled glucocorticoid does not prevent tolerance to the bronchoprotective effect of a long–acting inhaled beta 2–agonist. Yates DH, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1603–7

Administering metered dose bronchodilators during general anesthesia [letter] [see comments] Vu H, et al. **Anesthesiology** 1996 Sep;85(3):691. Comment in: Anesthesiology 1997 Jul;87(1):185–6.

Elevation of creatine kinase from skeletal muscle associated with inhaled albuterol. Craig TJ, et al. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):488–90

A comparison of bronchodilator responses to albuterol delivered by ultrasonic versus jet nebulization in moderate to severe asthma. Pallares DE, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):292–7

Effect of different albuterol dosing regimens in the treatment of acute exacerbation of chronic obstructive pulmonary disease. Emerman CL, et al. **Ann Emerg Med** 1997 Apr; 29(4):474–8

Efficacy of nebulized ipratropium in severely asthmatic children. Qureshi F, et al. **Ann Emerg Med** 1997 Feb; 29(2):205–11

Interpretation of positive results of a methacholine inhalation challenge and 1 week of inhaled bronchodilator use in diagnosing and treating cough–variant asthma. Irwin RS, et al. **Arch Intern Med** 1997 Sep 22;157(17):1981–7

Bronchodilator delivery in acute airflow obstruction. A meta–analysis. Turner MO, et al. **Arch Intern Med** 1997 Aug 11–25;157(15):1736–44

A review and economic evaluation of bronchodilator delivery methods in hospitalized patients. Turner MO, et al. **Arch Intern Med** 1996 Oct 14;156(18):2113–8

Comparison of bronchodilating effects of two salbutamol dry powder inhalers in asthmatic patients. Laurikainen K, et al. **Arzneimittelforschung** 1997 Jan;47(1):44–6

Options in asthma management. Adams R, et al. **Aust Fam Physician** 1996 Mar;25(3):309–15 (8 ref.)

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. Prescribing data need to be available by age [letter; comment] Baumer JH. **BMJ** 1997 Mar 1;314(7081):681; discussion 682. Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. More adequate information systems are needed [letter; comment] Currie CJ, et al. **BMJ** 1997 Mar 1;314(7081):681; discussion 682 . Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. Outcome measures need to reflect morbidity and quality of care [letter; comment] Griffiths C, et al. **BMJ** 1997 Mar 1;314(7081):681–2. Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

Ratio of inhaled corticosteroid to bronchodilator as indicator of quality of asthma prescribing. Authors discuss a result that was not shown [letter; comment] Roberts SJ. **BMJ** 1997 Mar 1;314(7081):680–1; discussion 682. Comment on: BMJ 1996 Nov 2;313(7065):1124–6.

Is the ratio of inhaled corticosteroid to bronchodilator a good indicator of the quality of asthma prescribing? Cross sectional study linking prescribing data to data on admissions [see comments] Shelley M, et al. **BMJ** 1996 Nov 2;313(7065):1124–6. Comment in: BMJ 1997 Mar 1;314(7081):680–1; discussion 682. Comment in: BMJ 1997 Mar 1;314(7081):681; discussion 682. Comment in: BMJ

1997 Mar 1;314(7081):681–2.
Lung bioavailability of chlorofluorocarbon free, dry powder and chlorofluorocarbon containing formulations of salbutamol [letter; comment] Chrystyn H. **Br J Clin Pharmacol** 1996 Aug;42(2):257–8. Comment on: Br J Clin Pharmacol 1996 Mar;41(3):247–9.
Terbutaline inhalation suppresses fentanyl–induced coughing. Lui PW, et al. **Can J Anaesth** 1996 Dec;43(12):1216–9
Effect of nebulized fenoterol on spirometry, dyspnea sensation changes during exercise in patients with chronic obstructive pulmonary disease. Chiang LL, et al. **Chang Keng I Hsueh** 1996 Jun;19(2):129–34
The effects of the combination of inhaled ipratropium and oral theophylline in asthma. Burki NK. **Chest** 1997 Jun; 111(6):1509–13
Effects of inhaled albuterol and ipratropium bromide on autonomic control of the cardiovascular system. Dagnone AJ, et al. **Chest** 1997 Jun;111(6):1514–8
Emergency treatment of acute asthma with albuterol metered–dose inhaler plus holding chamber: how often should treatments be administered? Karpel JP, et al. **Chest** 1997 Aug;112(2):348–56
Aerosols for the intubated: cultivating the rose [editorial; comment] Manthous CA. **Chest** 1997 Aug;112(2):303–4. Comment on: Chest 1997 Aug;112(2):484–90.
Ultrasonic nebulization of albuterol is no more effective than jet nebulization for the treatment of acute asthma in children. Nakanishi AK, et al. **Chest** 1997 Jun;111(6):1505–8
Treatment of acute severe asthma with inhaled albuterol delivered via jet nebulizer, metered dose inhaler with spacer, or dry powder. Raimondi AC, et al. **Chest** 1997 Jul;112(1):24–8
Efficacy of metered–dose inhaler administration of albuterol in intubated infants [see comments] Torres A Jr, et al. **Chest** 1997 Aug;112(2):484–90. Comment in: Chest 1997 Aug;112(2):303–4.
Changing delivery methods for obstructive lung diseases. Dolovich M. **Curr Opin Pulm Med** 1997 May;3(3):177–89 (112 ref.)
Use of a hand–held, metered–dose aerosol delivery device to administer pirbuterol acetate to horses with 'heaves' [comment] Derksen FJ, et al. **Equine Vet J** 1996 Jul; 28(4):306–10. Comment on: Equine Vet J 1996 Jul;28(4):250–2.
Relative efficacy of three different inhalers containing salbutamol in patients with asthma. Mahadewsingh JV, et al. **Eur J Clin Pharmacol** 1996;50(6):467–9
Comparative efficacy and potency of ipratropium via Turbuhaler and pressurized metered–dose inhaler in reversible airflow obstruction. Böllert FG, et al. **Eur Respir J** 1997 Aug;10(8):1824–8
Salmeterol in exercise–induced bronchoconstriction in asthmatic children: comparison of two doses [published erratum appears in Eur Respir J 1997 Jan;10(1):256] de Benedictis FM, et al. **Eur Respir J** 1996 Oct;9(10):2099–103
Fluticasone propionate compared with budesonide: a double–blind trial in asthmatic children using powder devices at a dosage of 400 microg x day(–1). Hoekx JC, et al. **Eur Respir J** 1996 Nov;9(11):2263–72
Physician–diagnosed asthma and drug utilization in the European Community Respiratory Health Survey. Janson C, et al. **Eur Respir J** 1997 Aug;10(8):1795–802
Electrostatic charge on a plastic spacer device influences the delivery of salbutamol. Wildhaber JH, et al. **Eur Respir J** 1996 Sep;9(9):1943–6
Evaluation of different doses of formoterol from a newly developed powder inhalation device in asthmatic patients. van den Berg BT, et al. **Fundam Clin Pharmacol** 1995; 9(6):593–603
Equivalence of pharmacokinetic characteristics and bronchodilating effect between two combined formulations of nedocromil sodium and salbutamol: MDI and nebulizer solution. Reggio S, et al. **Int J Clin Pharmacol Res** 1996; 16(1):19–27
Oral fenoterol versus sustained release theophylline in adult asthmatics. Lucena MI, et al. **Int J Clin Pharmacol Ther** 1997 Jan;35(1):19–23
The ability of A&E personnel to demonstrate inhaler technique. O'Donnell J, et al. **J Accid Emerg Med** 1997 May;14(3):163–4
Teaching elderly patients how to use inhalers. A study to evaluate an education programme on inhaler technique, for elderly patients. Abley C. **J Adv Nurs** 1997 Apr; 25(4):699–708
Failure of a breath–actuated bronchodilator inhaler to deliver aerosol during a bout of near fatal asthma [letter] Hannaway PJ. **J Allergy Clin Immunol** 1996 Oct;98(4):853
Health beliefs of adults with asthma: toward an understanding of the difference between symptomatic and preventive use of inhaler treatment. Hand CH, et al. **J Asthma** 1996; 33(5):331–8
A one–week dose–ranging study of inhaled salmeterol in children with asthma. Weinstein S, et al. **J Asthma** 1997; 34(1):43–52
Treating acute asthma in adults. Forsch R. **J Fam Pract** 1996 Oct;43(4):339–40
A homemade modification of a spacer device for delivery of bronchodilator or steroid therapy in patients with tracheostomies. Nakhla V. **J Laryngol Otol** 1997 Apr; 111(4):363–5
The effect of ethylcellulose molecular weight on the properties of theophylline microspheres. Dashevsky A, et al. **J Microencapsul** 1997 May–Jun;14(3):273–80
Formulation and preparation of controlled release pellets of salbutamol by the air suspension technique. Govender T, et al. **J Microencapsul** 1997 Jul–Aug;14(4):445–55
Microencapsulation of theophylline using ethylcellulose: in vitro drug release and kinetic modelling. Lavasanifar A, et al. **J Microencapsul** 1997 Jan–Feb;14(1):91–100
Dexamethasone in salbutamol–treated inpatients with acute bronchiolitis: a randomized, controlled trial [see comments] Klassen TP, et al. **J Pediatr** 1997 Feb;130(2):191–6. Comment in: J Pediatr 1997 Feb;130(2):170–2.
Efficacy of epinephrine with salbutamol in treatment of acute bronchiolitis [letter; comment] Rusconi F, et al. **J Pediatr** 1996 Mar;128(3):441–3. Comment on: J Pediatr 1995 Jun;126(6):1004–7.
What is continuous nebulized albuterol? Hageman JR. **J Perinatol** 1996 Nov–Dec;16(6):481–2
Early management of acute severe asthma [letter; comment] Robertson C. **Lancet** 1997 Apr 5;349(9057):1030. Comment on: Lancet 1997 Feb 1;349(9048):301–5.
Use of spacers with metered dose inhalers. Woodcock A. **Lancet** 1997 Feb 15;349(9050):446
Inhaled v. oral bronchodilators [letter; comment] Aggarwal AN. **Natl Med J India** 1997 Jan–Feb;10(1):47–8. Comment on: Natl Med J India 1996 Jul–Aug;9(4):159–62.
Oral bronchodilators in the control of asthma [editorial; comment] Rees PJ. **Natl Med J India** 1996 Jul–Aug; 9(4):153–4. Comment on: Natl Med J India 1996 Jul–aug;9(4):159–62.
Cost–effectiveness of inhaled beta–agonists v. oral salbutamol in asthma: a randomized double–blind cross–over study [see comments] Thomas K, et al. **Natl Med J India** 1996 Jul–Aug;9(4):159–62. Comment in: Natl Med J India 1996 Jul–Aug;9(4):153–4. Comment in: Natl Med J India 1997 Jan–Feb;10(1):47–8.
Effect of ultraviolet light on the release of theophylline from ethylcellulose–based sustained–release microcapsules. Asker AF, et al. **PDA J Pharm Sci Technol** 1997 May–Jun; 51(3):125–9
Effects of salbutamol delivery from a metered dose inhaler versus jet nebulizer on dynamic lung mechanics in very preterm infants with chronic lung disease. Gappa M, et al. **Pediatr Pulmonol** 1997 Jun;23(6):442–8
Hospitalization patterns in severe acute asthma in children. Schuh S, et al. **Pediatr Pulmonol** 1997 Mar;23(3):184–92
Dose titration of nebulized budesonide in young children. Vikre–Jørgensen J, et al. **Pediatr Pulmonol** 1997 Apr; 23(4):270–7
Aerosol delivery to wheezy infants: a comparison between a nebulizer and two small volume spacers. Wildhaber JH, et al. **Pediatr Pulmonol** 1997 Mar;23(3):212–6
Delivering nebulized medication to infants and toddlers. Seidel J. **Pediatr Rev** 1996 Sep;17(9):327
Tolerance to the bronchoprotective effect of salmeterol in adolescents with exercise–induced asthma using concurrent inhaled glucocorticoid treatment [see comments] Simons FE, et al. **Pediatrics** 1997 May;99(5):655–9. Comment in: Pediatrics 1997 May;99(5):729–30.
Effects of Y–24180, a long–acting and potent antagonist to platelet–activating factor, on immediate asthmatic response in guinea pigs. Kagoshima M, et al. **Pharmacology** 1997 Jan;54(1):1–7
Prospective evaluation of two dosing equations for theophylline in premature infants. Bhatt–Mehta V, et al. **Pharmacotherapy** 1996 Sep–Oct;16(5):769–76
The Spacehaler for delivery of salbutamol: a comparison with the standard metered–dose inhaler plus Volumatic spacer device. Gunawardena KA, et al. **Respir Med** 1997 May; 91(5):311–6
Influence of inspiratory capacity on bronchodilatation via Turbuhaler or pressurized metered–dose inhaler in asthmatic children: a comparison. Hirsch T, et al. **Respir Med** 1997 Jul;91(6):341–6
Effects of high–dose ipratropium bromide and oral aminophylline on spirometry and exercise tolerance in COPD. Shivaram U, et al. **Respir Med** 1997 Jul; 91(6):327–34
The effect of inhaled glucocorticosteroids in emphysema due to alpha1–antitrypsin deficiency. Wilcke JT, et al. **Respir Med** 1997 May;91(5):275–9
An evaluative study of the short–term effects of once–daily, sustained–release theophylline on sleep in nocturnal asthmatics. Richardt D, et al. **S Afr Med J** 1996 Jul; 86(7):803–4
Current best practice for nebuliser treatment. British Thoracic Society Nebulizer Project Group. **Thorax** 1997 Apr;52 Suppl 2:S1–3 (0 ref.)
Nebulizer therapy. Guidelines. British Thoracic Society Nebulizer Project Group. **Thorax** 1997 Apr;52 Suppl 2:S4–24
Nebuliser therapy in childhood. Barry PW, et al. **Thorax** 1997 Apr;52 Suppl 2:S78–88 (127 ref.)
Optimal particle size for aerosols [letter; comment] Chege JK, et al. **Thorax** 1997 Jun;52(6):586–7. Comment on: Thorax 1996 Oct;51(10):977–80.
Adrenal suppression with inhaled budesonide and fluticasone propionate given by large volume spacer to asthmatic children. Clark DJ, et al. **Thorax** 1996 Sep;51(9):941–3
Nebulised bronchodilators, corticosteroids, and rhDNase in adult patients with cystic fibrosis. Conway SP, et al. **Thorax** 1997 Apr;52 Suppl 2:S64–8 (65 ref.)
Effects of regular salmeterol on lung function and exercise capacity in patients with chronic obstructive airways disease. Grove A, et al. **Thorax** 1996 Jul;51(7):689–93
Asthma guidelines [letter; comment] Jack D. **Thorax** 1997 Jul;52(7):665; discussion 665–6. Comment on: Thorax 1997 Feb;52 Suppl 1:S2–8, S11–5, S20–1.
Selecting and using nebuliser equipment. Kendrick AH, et al. **Thorax** 1997 Apr;52 Suppl 2:S92–101
Overview of nebuliser treatment. Muers MF. **Thorax** 1997 Apr;52 Suppl 2:S25–30
The science of nebulised drug delivery. O'Callaghan C, et al. **Thorax** 1997 Apr;52 Suppl 2:S31–44 (104 ref.)
Aerosol kinetics and bronchodilator efficacy during continuous positive airway pressure delivered by face mask. Parkes SN, et al. **Thorax** 1997 Feb;52(2):171–5
Nebulised bronchodilators, antibiotics and rhDNase for children with cystic fibrosis. Spencer DA. **Thorax** 1997 Apr;52 Suppl 2:S89–91 (27 ref.)
Nebulisers for asthma. Ward MJ. **Thorax** 1997 Apr;52 Suppl 2:S45–8
Effect of electrostatic charge, flow, delay and multiple actuations on the in vitro delivery of salbutamol from different small volume spacers for infants. Wildhaber JH, et al. **Thorax** 1996 Oct;51(10):985–8
Effect of regular terbutaline on the airway response to inhaled budesonide. Wilding PJ, et al. **Thorax** 1996 Oct; 51(10):989–92
Optimal particle size for beta 2 agonist and anticholinergic aerosols in patients with severe airflow obstruction [see comments] Zanen P, et al. **Thorax** 1996 Oct;51(10):977–80 . Comment in: Thorax 1997 Jun;52(6):586–7.
[A preliminary observation on the effects of inhaled nitric oxide on bronchial asthma] Zhang H, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):805–7 (Eng. Abstr.) **(Chi)**
[Budesonide and beclamethasone dipropionate inhalation powders. The effect on bone and collagen turnover in children] Birkebaek NH, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2559–62 (Eng. Abstr.) **(Dan)**
[Beta2 agonists and anticholinergics. Inhalation therapy in acute deterioriation of asthma and chronic obstructive pulmonary disease (see comments)] Ringbaek TJ, et al. **Ugeskr Laeger** 1996 Oct 14;158(42):5957–62 (40 ref.). Comment in: Ugeskr Laeger 1997 Mar 3;159(10):1470–1. **(Dan)**
[Formoterol as inhalation powder in the treatment of patients with reversible obstructive lung diseases. A 3–month placebo–controlled comparison of the effects of formoterol and salbutamol, followed by a 12–month period with formoterol alone] Steffensen IE, et al. **Ugeskr Laeger** 1996 Dec 2;158(49):7092–6 (Eng. Abstr.) **(Dan)**
[Use of Unilair in general practice conditions. Treatment of chronic obstructive airway diseases with theophylline] Gregori P, et al. **Fortschr Med** 1997 Jan 20;115(1–2):54–5 **(Ger)**
[Effects of standardized Myrtol in therapy of acute sinusitis––results of a double–blind, randomized multicenter study compared with placebo] Federspil P, et al. **Laryngorhinootologie** 1997 Jan;76(1):23–7 (Eng. Abstr.) **(Ger)**
[Theophylline in therapy of bronchial asthma––is a reevaluation necessary?] Ukena D, et al. **Med Klin** 1996 Dec 15;91(12):751–2 **(Ger)**
[Recommendations for treatment of asthma in pregnancy] Worth H, et al. **Med Klin** 1996 Jul 15;91(7):435–7 **(Ger)**
[Comparison of serum concentrations of once and twice daily administration of ultra–retard theophylline in school children with bronchial asthma] Liebke C, et al. **Pneumologie** 1996 Nov;50(11):752–5 (Eng. Abstr.) **(Ger)**
[Therapy of nocturnal asthma: salmeterol versus nocturnal administration of retard theophylline––comparison of effectiveness and tolerance] Ukena D, et al. **Pneumologie** 1997 Mar;51(3):317–23 (Eng. Abstr.) **(Ger)**
[Re: Barandun J: Inhalation therapy in chronic obstructive bronchial diseases. Schweiz Med Wochenschr 1996; 126: 1693–1703 (letter; comment)] Kochen MM. **Schweiz Med Wochenschr** 1997 Mar 8;127(10):411. Comment on: Schweiz Med Wochenschr 1996 Oct 5;126(40):1693–703. **(Ger)**
[Bronchodilating effect of inhalation of aerosolized aminophylline in asthmatic patients] Kokubu H. **Arerugi** 1995 Dec;44(12):1379–86 (Eng. Abstr.) **(Jpn)**
[Comparative study of sustained–release in theophylline (Slobid, Theolong, Theodur) by pharmacokinetics] Kotake T, et al. **Arerugi** 1997 Apr;46(4):370–5 (Eng. Abstr.) **(Jpn)**
[Serum concentrations of the pyridoxal and pyridoxal–5'–phosphate in children during sustained–release theophylline therapy] Tanaka I, et al. **Arerugi** 1996 Oct;45(10):1098–105 (Eng. Abstr.) **(Jpn)**
[Chronopharmacology and chronotherapy for asthma by using PEF] Burioka N, et al. **Nippon Rinsho** 1996 Nov; 54(11):2956–61 (31 ref.) (Eng. Abstr.) **(Jpn)**
[Clinical evaluation of the isotonic solution of theophylline for intravenous injection] Chazan R, et al. **Pol Merkuriusz Lek** 1996 Nov;1(5):340–3 (Eng. Abstr.) **(Pol)**
[Comparative efficacy of single Berodual inhalation in patients with bronchial asthma: nebulization against dose–adjusted aerosol] Tsoi AN, et al. **Klin Med (Mosk)** 1997;75(8):51–5 (Eng. Abstr.) **(Rus)**
[The inhalation administration of liposomes for the transport of broncholytic preparations in bronchial asthma]

Nevzorova VA, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Nov–Dec; (6):12–4 (Eng. Abstr.) **(Rus)**

[Sympathomimetics and theophylline: combined use?] Alvarez Sintes R, et al. **An Med Interna** 1995 Sep; 12(9):438–41 (Eng. Abstr.) **(Spa)**

[Use of inhaled bronchodilators by primary care patients] Benito Ortiz L, et al. **Aten Primaria** 1996 Nov 30; 18(9):497–501 (Eng. Abstr.) **(Spa)**

[Severe asthma was found to be an asthma–like condition. Consider reduced doses of cortisone (see comments)] Löwhagen O, et al. **Lakartidningen** 1996 Oct 16; 93(42):3711–3 (Eng. Abstr.). Comment in: Lakartidningen 1997 Jan 29;94(5):317. **(Swe)**

ADVERSE EFFECTS

Bronchodilators and acute cardiac death [see comments] Suissa S, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1598–602. Comment in: Am J Respir Crit Care Med 1996 Dec;154(6 Pt 1):1593. Comment in: Am J Respir Crit Care Med 1997 Jul;156(1):333.

Unilateral pharmacologic mydriasis in a patient with respiratory compromise [letter] Goldstein JB, et al. **Arch Ophthalmol** 1997 Jun;115(6):806

A paradoxical effect of bronchodilators. Maury E, et al. **Chest** 1997 Jun;111(6):1766–7 (6 ref.)

Airborne contact dermatitis from metaproterenol in a respiratory therapist. Fung MA, et al. **Contact Dermatitis** 1996 Nov;35(5):317–8

Airway subsensitivity with long–acting beta 2–agonists. Is there cause for concern? Lipworth BJ. **Drug Saf** 1997 May; 16(5):295–308 (60 ref.)

Acute and chronic human toxicity of theophylline. Minton NA, et al. **Hum Exp Toxicol** 1996 Jun;15(6):471–81 (177 ref.)

Intravenous aminophylline increases the degree of saturation of urine with calcium phosphate and struvite. Siwińska A, et al. **Int Urol Nephrol** 1997;29(2):141–6

Ipratropium bromide induced unilateral mydriasis [letter] Ryan CA. **Ir Med J** 1997 Mar;90(2):76

Risk of severe life threatening asthma [editorial] Barnes NC, et al. **Thorax** 1996 Nov;51(11):1073

Risk of severe life threatening asthma and beta agonist type: an example of confounding by severity. Garrett JE, et al. **Thorax** 1996 Nov;51(11):1093–9

Drug use and pulmonary death rates in increasingly symptomatic asthma patients in the UK. Meier CR, et al. **Thorax** 1997 Jul;52(7):612–7

[Inhibition of growth hormone secretion by theophylline in asthmatic children] Baum WF, et al. **Pneumologie** 1996 Mar; 50(3):238–41 (Eng. Abstr.) **(Ger)**

[A study of gastroesophageal reflux by 24–hour esophageal pH monitoring in patients with bronchial asthma] Suzuki J, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):519–25 (Eng. Abstr.) **(Jpn)**

[New developments in predicting the arrhythmogenic effect of beta–adrenomimetics in chronic obstructive lung diseases] Andrianov VP, et al. **Voen Med Zh** 1996 Nov; 317(11):34–6 **(Rus)**

ANALYSIS

Aminophylline stability in total parenteral nutrition admixtures. Ciszewska–Jędrasik M, et al. **Acta Pol Pharm** 1995 Nov–Dec;52(6):487–90

Microchip–based capillary electrophoresis for immunoassays: analysis of monoclonal antibodies and theophylline. Chiem N, et al. **Anal Chem** 1997 Feb 1;69(3):373–8

Gas chromatographic–tandem mass spectrometric analysis of clenbuterol residues in faeces. Batjoens P, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):133–9

Determination of theophylline and its metabolites in human urine and plasma by high–performance liquid chromatography. Rasmussen BB, et al. **J Chromatogr B Biomed Appl** 1996 Feb 9;676(1):169–74

ANTAGONISTS & INHIBITORS

Calcitonin gene–related peptide antagonizes the protective effect of adrenomedullin on histamine–induced bronchoconstriction. Kanazawa H, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):472–5

BLOOD

Theophylline concentration following equal doses of intravenous aminophylline and oral theophylline in preterm infants. al–Omran A, et al. **Am J Perinatol** 1997 Mar; 14(3):147–9

Serum albuterol levels in mechanically ventilated patients and healthy subjects after metered–dose inhaler administration. Duarte AG, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1658–63

Evaluation of plasma and urinary salbutamol levels in COPD. Clark DJ, et al. **Eur J Clin Pharmacol** 1996;51(1):91–3

Determination of albuterol in plasma after aerosol inhalation by gas chromatography–mass spectrometry with selected–ion monitoring. Logsdon TW, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):472–7

Determination of a basic drug, bambuterol, in human plasma by capillary electrophoresis using double stacking for large volume injection and supported liquid membranes for sample pretreatment. Pálmarsdóttir S, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):127–34

Reduced serum theophylline concentrations after discontinuation of azithromycin: evidence for an unusual interaction. Pollak PT, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):827–9

[Usefulness of "Biotrack Theophylline kit" for measuring serum theophylline concentration in patients with chronic asthma] Iwata T. **Nippon Rinsho** 1996 Nov;54(11):3113–8 (Eng. Abstr.) **(Jpn)**

[Development of syringe–type off line pre–column and simultaneous quantitation of four xanthine derivatives (caffeine, theobromine, theophylline and paraxanthine) in serum] Kouno Y, et al. **Yakugaku Zasshi** 1997 Mar; 117(3):178–84 (Eng. Abstr.) **(Jpn)**

CHEMICAL SYNTHESIS

Synthesis and pharmacological properties of 1,2,3,4–tetrahydroisoquinoline derivatives. Brzezińska E. **Acta Pol Pharm** 1996 Jan–Feb;53(1):25–9

CHEMISTRY

Compatibility of nebulizer solution admixtures. Joseph JC. **Ann Pharmacother** 1997 Apr;31(4):487–9 (17 ref.)

Metered dose inhalers III: Metaproterenol sulphate; particle size distribution and dose uniformity. Cyr TD, et al. **J Pharm Biomed Anal** 1997 Jul;15(11):1709–18

Interlocking structural motifs mediate molecular discrimination by a theophylline–binding RNA [see comments] Zimmermann GR, et al. **Nat Struct Biol** 1997 Aug;4(8):644–9. Comment in: Nat Struct Biol 1997 Aug;4(8):597–600.

Improvement of some pharmaceutical properties of drugs by cyclodextrin complexation. 5. Theophylline. Ammar HO, et al. **Pharmazie** 1996 Jan;51(1):42–6

CONTRAINDICATIONS

Doping taboos [letter; comment] Wolstenholme RJ. **Br J Sports Med** 1995 Dec;29(4):279. Comment on: Br J Sports Med 1995 Jun;29(2):75.

Asthma guidelines [letter; comment] Emerton D. **Thorax** 1997 Jul;52(7):665; discussion 665–6. Comment on: Thorax 1997 Feb;52 Suppl 1:S2–8, S11–5, S20–1.

DIAGNOSTIC USE

A portable device based on the interrupter technique to measure bronchodilator response in schoolchildren [see comments] Bridge PD, et al. **Eur Respir J** 1996 Jul; 9(7):1368–73. Comment in: Eur Respir J 1997 Jun;10(6):1428–9.

Evaluation of a new interrupter device for measuring bronchial responsiveness and the response to bronchodilator in 3 year old children [see comments] Phagoo SB, et al. **Eur Respir J** 1996 Jul;9(7):1374–80. Comment in: Eur Respir J 1997 Jun;10(6):1428–9.

Bronchial hyperresponsiveness in lung transplant recipients: lack of correlation with airway inflammation. Liakakos P, et al. **Thorax** 1997 Jun;52(6):551–6

METABOLISM

Delivery of metered dose inhaler aerosols to paralyzed and nonparalyzed rabbits. Fok TF, et al. **Crit Care Med** 1997 Jan;25(1):140–4

Adrenomedullin is inactivated in the lungs of neonatal piglets. Sabates B, et al. **J Pharm Pharmacol** 1996 Jun;48(6):578–80

Griseofulvin and fluvoxamine interactions with the metabolism of theophylline. Rasmussen BB, et al. **Ther Drug Monit** 1997 Feb;19(1):56–62

Relation between plasma and saliva concentrations of enoxacin, ciprofloxacin, and theophylline. Zhai S, et al. **Ther Drug Monit** 1996 Dec;18(6):666–71

PHARMACOKINETICS

Isoetherine or albuterol for acute asthma [letter; comment] Finkelstein F. **Am J Med** 1997 Jan;102(1):130. Comment on: Am J Med 1996 Mar;100(3):323–7.

Effect of ranitidine on theophylline metabolism in healthy Koreans living in China. Kehoe WA, et al. **Ann Pharmacother** 1996 Feb;30(2):133–7

Effect of gallbladder contraction induced cholagogia on the pharmacokinetic profile of a sustained–release theophylline formulation. Fuchs WS, et al. **Arzneimittelforschung** 1996 Dec;46(12):1120–6

Inhibition of theophylline metabolism by aciclovir. Maeda Y, et al. **Biol Pharm Bull** 1996 Dec;19(12):1591–5

Theophylline controlled–release formulations: in vivo–in vitro correlations. Yu Z, et al. **Biopharm Drug Dispos** 1996 Apr;17(3):259–72

Relative bioavailability of salbutamol to the lung following inhalation via a novel dry powder inhaler and a standard metered dose inhaler. Hindle M, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):336–8

Individual and combined effects of cimetidine and ciprofloxacin on theophylline metabolism in male nonsmokers. Loi CM, et al. **Br J Clin Pharmacol** 1993 Sep; 36(3):195–200

The influence of orally deposited budesonide on the systemic availability of budesonide after inhalation from a Turbuhaler. Pedersen S, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):211–4

Pharmacodynamics and pharmacokinetics of BAY x 7195 aerosol, a new and selective receptor antagonist of cysteinyl–leukotrienes, in normal volunteers. Wensing G, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):171–8

Clinical pharmacokinetics of bambuterol. Sitar DS. **Clin Pharmacokinet** 1996 Oct;31(4):246–56 (48 ref.)

The effect of ipriflavone and its main metabolites on theophylline biotransformation. Monostory K, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jan–Mar;21(1):61–6

Equivalence of pharmacokinetic characteristics and bronchodilating effect between two combined formulations of nedocromil sodium and salbutamol: MDI and nebulizer solution. Reggio S, et al. **Int J Clin Pharmacol Res** 1996; 16(1):19–27

Pharmacokinetic characteristics of a new liquid sustained–release formulation of theophylline designed for the elderly and children: microcaps as sachet. Fuchs WS, et al. **Int J Clin Pharmacol Ther** 1996 Dec;34(12):558–63

Lack of influence of pantoprazole on the disposition kinetics of theophylline in man. Schulz HU, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S51–7

Pharmacokinetics of theophylline in obesity. Zahorska–Markiewicz B, et al. **Int J Clin Pharmacol Ther** 1996 Sep;34(9):393–5

Application of population pharmacokinetics to the optimization of theophylline therapy. Otero MJ, et al. **J Clin Pharm Ther** 1996 Apr;21(2):113–25

Phase I pilot study of the effects of trovafloxacin (CP–99,219) on the pharmacokinetics of theophylline in healthy men. Dickens GR, et al. **J Clin Pharmacol** 1997 Mar;37(3):248–52

No pharmacokinetic or pharmacodynamic interaction between theophylline and the leukotriene biosynthesis inhibitor BAY x 1005. Groen H, et al. **J Clin Pharmacol** 1996 Jul;36(7):639–46

Effect of nifedipine on the elimination of theophylline in the rabbit subjected to hypoxia or to an inflammatory reaction. Barakat M, et al. **J Pharm Pharmacol** 1996 Sep;48(9):906–10

Effect of tamoxifen on the pharmacokinetics of theophylline in rats. Poisson D, et al. **J Pharm Pharmacol** 1997 Jan; 49(1):40–2

Terbutaline transdermal delivery: preformulation studies and limitations of in–vitro predictive parameters. Tenjarla S, et al. **J Pharm Pharmacol** 1996 Nov;48(11):1138–42

Influence of partial hepatectomy on theophylline pharmacokinetics in rats. Maza A, et al. **J Pharm Sci** 1996 Oct;85(10):1133–5

Improvement of some pharmaceutical properties of drugs by cyclodextrin complexation. 5. Theophylline. Ammar HO, et al. **Pharmazie** 1996 Jan;51(1):42–6

Effect of multiple actuations, delayed inhalation and antistatic treatment on the lung bioavailability of salbutamol via a spacer device. Clark DJ, et al. **Thorax** 1996 Oct; 51(10):981–4

[The relative bioavailability and pharmacokinetics of standardized myrtol] Zimmermann T, et al. **Arzneimittelforschung** 1995 Nov;45(11):1198–201 (Eng. Abstr.) **(Ger)**

[Comparative study of sustained–release in theophylline (Slobid, Theolong, Theodur) by pharmacokinetics] Kotake T, et al. **Arerugi** 1997 Apr;46(4):370–5 (Eng. Abstr.) **(Jpn)**

[The effect of new quinolone antimicrobial agents and macrolide antibiotics on the clearance of theophylline] Honma M. **Nippon Rinsho** 1996 Nov;54(11):3125–9 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Comparative study of sustained–release in theophylline (Slobid, Theolong, Theodur) by pharmacokinetics] Kotake T, et al. **Nippon Rinsho** 1996 Nov;54(11):3119–24 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Airway responsiveness in asthma: bronchial challenge with histamine and 4.5% sodium chloride before and after budesonide. du Toit JI, et al. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):7–14

Pharmacological activation changes stiffness of cultured human airway smooth muscle cells. Hubmayr RD, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1660–8

PAMP is a novel inhibitor of the tachykinin release in the airway of guinea pigs. Kanazawa H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1066–9

Effect of IL–1 beta on responses of cultured human airway smooth muscle cells to bronchodilator agonists. Shore SA, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):702–12

Safety of one method of sputum induction in asthmatic subjects. Wong HH, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):299–303

Calcium concentration–dependent mechanisms through which ketamine relaxes canine airway smooth muscle. Pabelick CM, et al. **Anesthesiology** 1997 May;86(5):1104–11

Isoflurane– and halothane–mediated dilation of distal bronchi in the rat depends on the epithelium. Park KW, et al. **Anesthesiology** 1997 May;86(5):1078–87; discussion 23A–24A

The effect of isoflurane, halothane, sevoflurane, and thiopental/nitrous oxide on respiratory system resistance after tracheal intubation. Rooke GA, et al. **Anesthesiology** 1997 Jun;86(6):1294–9

Inhibitory effects of BAY x 7195, a CYS leukotriene 1 receptor antagonist, on allergen–induced asthmatic responses. Boulet LP, et al. **Ann Allergy Asthma Immunol** 1997 Aug;79(2):155–61

BRONCHODILATOR AGENTS

Structure-activity studies on VIP: IV. The synthetic agonist helodermin-fragment-(1-28)-amide is a potent VIP-agonist with prolonged duration of tracheal relaxant activity. Jaeger E, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:499-504

Structure-activity relationship studies of PACAP-27 and VIP analogues. Kashimoto K, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:505-10

A novel PACAP 1-27 analogue causes sustained smooth muscle relaxation in guinea-pig trachea. Yoshihara S, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:536-42

Effect of Apafant on bronchial hyperresponsiveness and down-regulation of beta-adrenoceptors induced by endotoxin in guinea pigs. Sugimoto Y, et al. **Arzneimittelforschung** 1997 Jul;47(7):837-41

Fenspiride and membrane transduction signals in rat alveolar macrophages. Féray JC, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):293-7

Chronotropic effects of optical isomers of ephedrine and methylephedrine in the isolated rat right atria and in vitro assessment of direct and indirect actions on beta 1-adrenoceptors. Kawasuji T, et al. **Biol Pharm Bull** 1996 Nov;19(11):1423-8

In vivo assessment of droperidol-induced bronchial relaxation in dogs using a superfine fibreoptic bronchoscope. Otomo N, et al. **Br J Anaesth** 1997 May; 78(5):579-82

The acute effects of inhaled salbutamol on the beat-to-beat variability of heart rate and blood pressure assessed by spectral analysis. Jartti T, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):421-8

Pharmacodynamics and pharmacokinetics of BAY x 7195 aerosol, a new and selective receptor antagonist of cysteinyl-leukotrienes, in normal volunteers. Wensing G, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):171-8

Extent of salmeterol-mediated reassertion of relaxation in guinea-pig trachea pretreated with aliphatic side chain structural analogues. Bergendal A, et al. **Br J Pharmacol** 1996 Mar;117(6):1009-15

Effects of SCA40 on human isolated bronchus and human polymorphonuclear leukocytes: comparison with rolipram, SKF94120 and levcromakalim. Cortijo J, et al. **Br J Pharmacol** 1996 Sep;119(1):99-106

Stereospecific effects of ketamine enantiomers on canine tracheal smooth muscle. Pabelick CM, et al. **Br J Pharmacol** 1997 Aug;121(7):1378-82

Effects of theophylline and rolipram on leukotriene C4 (LTC4) synthesis and chemotaxis of human eosinophils from normal and atopic subjects. Tenor H, et al. **Br J Pharmacol** 1996 Aug;118(7):1727-35

The different effect of salbutamol and aminophylline on platelet activating factor-induced plasma exudation into guinea pig tracheal wall and lumen. Liu CY, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):211-6

A comparison of pulmonary availability between Ventolin (albuterol) nebules and Ventolin (albuterol) Respirator Solution. MacNeish CF, et al. **Chest** 1997 Jan;111(1):204-8

Bronchodilatation and the inspiratory flow volume curve. Reddy R, et al. **Chest** 1996 Nov;110(5):1226-8

Theophylline improves measurements of respiratory muscle efficiency. Sherman MS, et al. **Chest** 1996 Dec; 110(6):1437-42

Synthesis and bronchodilatory activity of four new derivatives of deoxyvasicine. Ojo B, et al. **Drug Des Discov** 1996 Mar;14(1):1-14

Effects of nedocromil sodium on the oxidative burst of polymorphonuclear leukocytes: comparison with salbutamol. Braga PC, et al. **Drugs Exp Clin Res** 1997; 23(1):33-8

The effect of salbutamol on performance in endurance cyclists. Norris SR, et al. **Eur J Appl Physiol** 1996; 73(3-4):364-8

Antimuscarinic effect of tiquizium bromide in vitro and in vivo. Shioya T, et al. **Eur J Clin Pharmacol** 1996; 50(5):375-80

Bronchoprotective effects of KF-19514 and cilostazol in guinea pigs in vivo. Fujimura M, et al. **Eur J Pharmacol** 1997 May 26;327(1):57-63

The effect of inhaled K+ channel openers on bronchoconstriction and airway microvascular leakage in anaesthetised guinea pigs. Kidney JC, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):81-7

Zatebradine inhibits tachycardia induced by bronchodilators without affecting respiratory resistance in dogs. Yamazaki K, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):21-7

Pre- and postjunctional inhibitory effects of fenspiride on guinea-pig bronchi. Girard V, et al. **Eur Respir J** 1997 May;10(5):1015-20

The effect of dipyridamole and theophylline on hypercapnic ventilatory responses: the role of adenosine. Griffiths TL, et al. **Eur Respir J** 1997 Jan;10(1):156-60

Allergic responses reduce the relaxant effect of beta-agonists but not potassium channel openers in guinea-pig isolated trachea. Houjou S, et al. **Eur Respir J** 1996 Oct; 9(10):2050-6

Characterization of a primate model of asthma using anti-allergy/anti-asthma agents. Turner CR, et al. **Inflamm Res** 1996 May;45(5):239-45

Diurnal change of bronchial caliber and airway responsiveness in asthmatics during long-term treatment with long-acting beta 2-agonist salmeterol. Dottorini ML, et al. **Int J Clin Pharmacol Ther** 1996 Oct;34(10):438-43

Inhibitory effects of theophylline and procaterol on eosinophil function. Okubo Y, et al. **Intern Med** 1997 Apr; 36(4):276-82

The effects of salmeterol on power output in nonasthmatic athletes. McDowell SL, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):443-9

The effects of theophylline on metabolic rate in chronic obstructive lung disease patients. Mosier K, et al. **J Am Coll Nutr** 1996 Aug;15(4):403-7

Effects of somatotropin and salbutamol in three genotypes of finishing barrows: growth, carcass, and calorimeter criteria. Hansen JA, et al. **J Anim Sci** 1997 Jul; 75(7):1798-809

Differential effects of salmeterol on lung endothelial and epithelial leakage in sheep. Peterson BT, et al. **J Appl Physiol** 1996 May;80(5):1666-73

In vivo direct measurement of the bronchodilating effect of sevoflurane using a superfine fiberoptic bronchoscope: comparison with enflurane and halothane. Hashimoto Y, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):213-6

Substituted (pyridylmethoxy)naphthalenes as potent and orally active 5-lipoxygenase inhibitors; synthesis, biological profile, and pharmacokinetics of L-739,010. Hamel P, et al. **J Med Chem** 1997 Aug 29;40(18):2866-75

Effects of potassium-channel opener HOE 234 in guinea-pig airways. Redemann B, et al. **J Pharm Pharmacol** 1996 Jun; 48(6):619-23

In-vitro bronchorelaxing effects of novel nitric oxide donors GEA 3268 and GEA 5145 in guinea-pigs and rats. Vaali K, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1309-14

In vitro pharmacology of the novel phosphodiesterase type 4 inhibitor, CP-80633. Cohan VL, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1356-61

The in vivo pharmacology of CP-80, 633, a selective inhibitor of phosphodiesterase 4. Turner CR, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1349-55

Suppression by azelastine hydrochloride of NF-kappa B activation involved in generation of cytokines and nitric oxide. Yoneda K, et al. **Jpn J Pharmacol** 1997 Feb; 73(2):145-53

Furosemide-induced bronchodilation in the rat bronchus: evidence of a role for prostaglandins. Almirall JJ, et al. **Lung** 1997;175(3):155-63

Acute cardiovascular effects of salmeterol in subjects with stable bronchial asthma. Bagnato GF, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):275-8

KATP channel openers reverse immune complex-induced airways hyperreactivity independently of smooth muscle relaxation. Buchheit KH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug-Sep; 354(3):355-61

Effect of urodilatin on platelet-activating factor-induced bronchoconstriction, vasoconstriction and edema formation in isolated rat lung. Uhlig S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):684-8

The effects of bronchodilators on spontaneous ventilation and oxygen consumption in rhesus monkeys. Newth CJ, et al. **Pediatr Res** 1997 Aug;42(2):157-62

The equivalent bronchodilator effects of salbutamol formulated in chlorofluorocarbon and hydrofluoroalkane-134a metered dose inhalers on the histamine-induced pulmonary response in dogs. Nogami-Itoh M, et al. **Pharm Res** 1997 Feb;14(2):208-12

The effect of oxygen tension on responses evoked by methacholine and bronchodilators in bovine isolated bronchial rings. Clayton RA, et al. **Pulm Pharmacol** 1996 Apr;9(2):123-8

Differential inhibition by selective phosphodiesterase inhibitors of antigen, LTC4 and histamine-induced contraction of guinea-pig isolated trachea. Planquois JM, et al. **Pulm Pharmacol** 1996 Aug;9(4):251-8

Cough threshold for capsaicin increases by azelastine in patients with cough-variant asthma. Shioya T, et al. **Pulm Pharmacol** 1996 Feb;9(1):59-62

Inhibitory effects of pituitary adenylate cyclase activating polypeptide on histamine-induced respiratory resistance in anesthetized guinea pigs. Saguchi Y, et al. **Regul Pept** 1997 May 14;70(1):9-13

Comparative evaluation of impulse oscillometry and a monofrequency forced oscillation technique in clinically healthy calves undergoing bronchochallenges. Reinhold P, et al. **Res Vet Sci** 1996 Nov;61(3):206-13

Bronchodilator response in pulmonary disease at two different states of respiratory mechanics. Ahmad HR, et al. **Respiration** 1996;63(5):288-91

Comparison of the efficacy of pentoxifylline and albifyllin (HWA 138) on endotoxin-induced cytokine production, coagulation disturbances, and mortality. Bahrami S, et al. **Shock** 1996 Jun;5(6):424-8

Salmeterol tachyphylaxis in steroid treated asthmatic subjects. Booth H, et al. **Thorax** 1996 Nov;51(11):1100-4

Exosites: their current status, and their relevance to the duration of action of long-acting beta 2-adrenoceptor agonists [see comments] Coleman RA, et al. **Trends Pharmacol Sci** 1996 Sep;17(9):324-30 (52 ref.). Comment in: Trends Pharmacol Sci 1997 May;18(5):149-51.

Airway response of horses with COPD to dry powder inhalation of ipratropium bromide. Duvivier DH, et al. **Vet J** 1997 Sep;154(2):149-53

Increased airway pressure in response to xylazine is inhibited by both atipamezole and atropine in sheep. Papazoglou L, et al. **Zentralbl Veterinarmed A** 1994 Sep;41(7):568-72

[Effects of theophylline and doxofylline on airway responsiveness in beagles] Sugeta A, et al. **Arerugi** 1997 Jan;46(1):7-15 (Eng. Abstr.) **(Jpn)**

POISONING

Comparative efficacy of hemodialysis and hemoperfusion in severe theophylline intoxication. Shannon MW. **Acad Emerg Med** 1997 Jul;4(7):674-8

Histamine H2-receptor antagonists and chronic theophylline toxicity [letter] Alterman P, et al. **Am Fam Physician** 1996 Oct;54(5):1473, 1477

Visual hallucinations in a toddler: accidental ingestion of a sympathomimetic over-the-counter nasal decongestant. Sauder KL, et al. **Am J Emerg Med** 1997 Sep;15(5):521-6

[Acute theophylline intoxication as differential diagnosis of pneumothorax in an asthma patient] Schaarschmidt S, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jan;32(1):61-4 (Eng. Abstr.) **(Ger)**

[A patient with theophylline-quinolone interaction. Not all quinolones are equal (letter)] Cárdenas Rodríguez M, et al. **Aten Primaria** 1996 Sep 15;18(4):204-5 **(Spa)**

RADIATION EFFECTS

Effect of ultraviolet light on the release of theophylline from ethylcellulose-based sustained-release microcapsules. Asker AF, et al. **PDA J Pharm Sci Technol** 1997 May-Jun; 51(3):125-9

THERAPEUTIC USE

Efficacy of atropine sulfate in combination with albuterol in the treatment for acute asthma. Díaz JE, et al. **Acad Emerg Med** 1997 Feb;4(2):107-13

Duration of action of formoterol and salbutamol dry-powder inhalation in prevention of exercise-induced asthma in children. Daugbjerg P, et al. **Acta Paediatr** 1996 Jun; 85(6):684-7

The effect of aerosolized furosemide in infants with chronic lung disease. Ohki Y, et al. **Acta Paediatr** 1997 Jun; 86(6):656-60

Efficacy of salmeterol in the treatment of childhood asthma. Tomaç N, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):489-94

Theophylline revisited. D'Alonzo GE. **Allergy Asthma Proc** 1996 Nov-Dec;17(6):335-9 (58 ref.)

Salmeterol in the treatment of chronic asthma. D'Alonzo GE, et al. **Am Fam Physician** 1997 Aug;56(2):558-62 (30 ref.)

Asthma group issues guidelines for safe use of salmeterol [news] **Am J Health Syst Pharm** 1996 Dec 15;53(24):2943-4

The influence of parasympatholytics on the resolution of acute attacks of asthma. McFadden ER Jr, et al. **Am J Med** 1997 Jan;102(1):7-13

Changes in peak flow, symptom score, and the use of medications during acute exacerbations of asthma. Chan-Yeung M, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):889-93

Effects of inhaled budesonide on allergen-induced airway responses and airway inflammation. Gauvreau GM, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1267-71

Quality of life changes in COPD patients treated with salmeterol. Jones PW, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1283-9

Observations on the effects of aerosolized albuterol in acute asthma. Strauss L, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):454-8

Intravenous magnesium sulphate in the management of refractory bronchospasm in a ventilated asthmatic. Mills R, et al. **Anaesthesia** 1997 Aug;52(8):782-5

Proventil HFA provides protection from exercise-induced bronchoconstriction comparable to proventil and ventolin. Dockhorn RJ, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):85-8

A wheezy infant unresponsive to bronchodilators [clinical conference] Go RO, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):449-56

A comparison of bronchodilator responses to albuterol delivered by ultrasonic versus jet nebulization in moderate to severe asthma. Pallares DE, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):292-7

Basic aspects of vasorelaxant and bronchodilating peptides in clinical use: urodilatin (INN: Ularitide), VIP, and PACAP. Meyer M, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:443-61; discussion 461-3 (104 ref.)

Zileuton: the first 5-lipoxygenase inhibitor for the treatment of asthma [see comments] Wenzel SE, et al. **Ann Pharmacother** 1996 Jul-Aug;30(7-8):858-64 (34 ref.). Comment in: Ann Pharmacother 1996 Jul-Aug;30(7-8):873-5.

Guidelines and realities of asthma management. The Philadelphia story. Lang DM, et al. **Arch Intern Med** 1997 Jun 9;157(11):1193-200

Effect of theophylline on erythrocytosis in chronic obstructive pulmonary disease. Oren R, et al. **Arch Intern Med** 1997 Jul 14;157(13):1474-8

Efficacy of bronchodilator therapy in bronchiolitis. A meta-analysis [see comments] Kellner JD, et al. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1166-72. Comment in: Arch Pediatr Adolesc Med 1996 Nov;150(11):1120-1.

Determining the benefit of bronchodilators in bronchiolitis.

When is there enough benefit to warrant adoption into clinical practice? [editorial; comment] Klassen TP. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1120–1. Comment on: Arch Pediatr Adolesc Med 1996 Nov;150(11):1166–72.

Nitric oxide and the lung: an overview. Head CA. **Artif Organs** 1997 Jan;21(1):5–9 (26 ref.)

Comparison of bronchodilating effects of two salbutamol dry powder inhalers in asthmatic patients. Laurikainen K, et al. **Arzneimittelforschung** 1997 Jan;47(1):44–6

Bronchial responsiveness of aged asthmatic patients to bronchodilator and methacholine. Chuang CC, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):1–4

Dibutyryl cAMP prevents increased vascular permeability caused by air embolism in isolated rat lungs. Hsu K, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):802–6

Significance of the therapeutic range of serum theophylline concentration in the treatment of an attack of bronchial asthma. Nakahara Y, et al. **Biol Pharm Bull** 1996 May; 19(5):710–5

Effect of long-term treatment with salmeterol on asthma control: a double blind, randomised crossover study. Wilding P, et al. **BMJ** 1997 May 17;314(7092):1441–6

The effect of intravenous aminophylline on essential tremor. Buss DC, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):119–21

The clinical efficacy of combination nebulized anticholinergic and adrenergic bronchodilators vs nebulized adrenergic bronchodilator alone in acute asthma. Canadian Combivent Study Group. FitzGerald JM, et al. **Chest** 1997 Feb;111(2):311–5

Effect of inhaled salmeterol on sulfur dioxide-induced bronchoconstriction in asthmatic subjects. Gong H Jr, et al. **Chest** 1996 Nov;110(5):1229–35

The effect of salmeterol on nocturnal symptoms, airway function, and inflammation in asthma. Kraft M, et al. **Chest** 1997 May;111(5):1249–54

Salmeterol reduces dyspnea and improves lung function in patients with COPD. Ramirez-Venegas A, et al. **Chest** 1997 Aug;112(2):336–40

Effect of age on bronchodilator response in acute severe asthma treatment. Rodrigo G, et al. **Chest** 1997 Jul; 112(1):19–23

Proceedings of the Theophylline Forum. Stockholm, 25 June 1994. **Clin Exp Allergy** 1996 Mar;26 Suppl 2:1–59

Dose-response of inhaled drugs in asthma. An update. Clark DJ, et al. **Clin Pharmacokinet** 1997 Jan;32(1):58–74 (78 ref.)

A comparison of nebulized budesonide with oral prednisolone in the treatment of exacerbations of obstructive pulmonary disease. Morice AH, et al. **Clin Pharmacol Ther** 1996 Dec;60(6):675–8

Out-patient management of asthma & COPD. Cosentino AM. **Compr Ther** 1997 Jan;23(1):67–72

Three steps toward better management of asthma. Li JT. **Compr Ther** 1996 Jun;22(6):345–52 (30 ref.)

Bronchodilators: new drugs and controversies. Kleerup EC. **Curr Opin Pulm Med** 1997 Jan;3(1):17–22 (26 ref.)

Asthma treatment during pregnancy. What can be safely taken? Schatz M. **Drug Saf** 1997 May;16(5):342–50 (28 ref.)

Inhaled budesonide and adrenaline for croup. **Drug Ther Bull** 1996 Mar;34(3):23–4 (19 ref.)

Using beta 2-stimulants in asthma. **Drug Ther Bull** 1997 Jan; 35(1):1–4 (32 ref.)

Drug treatment of asthma in the elderly. Braman SS. **Drugs** 1996 Mar;51(3):415–23 (41 ref.)

Controlled trial of methotrexate in patients with severe chronic asthma. Hedman J, et al. **Eur J Clin Pharmacol** 1996;49(5):347–9

An evaluation of salmeterol in the treatment of chronic obstructive pulmonary disease (COPD) [published erratum appears in Eur Respir J 1997 Jul;10(7):1696] Boyd G, et al. **Eur Respir J** 1997 Apr;10(4):815–21

Effect of addition of inhaled salmeterol to the treatment of moderate-to-severe asthmatics uncontrolled on high-dose inhaled steroids. European Respiratory Study Group. Faurschou P, et al. **Eur Respir J** 1996 Sep;9(9):1885–90

Effects of theophylline on inflammatory cells and cytokines in asthmatic subjects: a placebo-controlled parallel group study. Finnerty JP, et al. **Eur Respir J** 1996 Aug; 9(8):1672–7

Exhaled nitric oxide during acute changes of airways calibre in asthma. Garnier P, et al. **Eur Respir J** 1996 Jun; 9(6):1134–8

Comparison of inhaled salmeterol and individually dose-titrated slow-release theophylline in patients with reversible airway obstruction. European Study Group. Paggiaro PL, et al. **Eur Respir J** 1996 Aug;9(8):1689–95

Inhaled corticosteroids and pulmonary sarcoidosis [letter; comment] Pietinalho A, et al. **Eur Respir J** 1996 Jan; 9(1):180–1. Comment on: Eur Respir J 1995 May;8(5):679–81. Comment on: Eur Respir J 1995 May;8(5):682–8.

Comparison of nebulized glycopyrrolate and metaproterenol in chronic obstructive pulmonary disease. Tzelepis G, et al. **Eur Respir J** 1996 Jan;9(1):100–3

Effect of cessation of short-term therapy with ipratropium bromide on lung function and airway responsiveness. Wilding PJ, et al. **Eur Respir J** 1996 Aug;9(8):1627–31

Efficacy and tolerability of Icatibant (Hoe 140) in patients with moderately severe chronic bronchial asthma. Akbary AM, et al. **Immunopharmacology** 1996 Jun;33(1–3):238–42

No significant effect of age of onset on response to anti-asthmatic medications in adult asthmatics. Oosaki R, et al. **In Vivo** 1996 May-Jun;10(3):377–82

The asthmatic athlete: metabolic and ventilatory responses to exercise with and without pre-exercise medication. Ienna TM, et al. **Int J Sports Med** 1997 Feb;18(2):142–8

Effects of nebulized salbutamol on respiratory mechanics in adult respiratory distress syndrome. Moriña P, et al. **Intensive Care Med** 1997 Jan;23(1):58–64

Retention of asthmatic patients in a longitudinal clinical trial. Bender BG, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):197–203

A twelve-week comparison of salmeterol and salbutamol in the treatment of mild-to-moderate asthma: a Canadian multicenter study. Boulet LP, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):13–21

Nebulized salbutamol with and without ipratropium bromide in the treatment of acute asthma. Garrett JE, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):165–70

Study of ipratropium bromide inhalation in stable asthma. Ailani RK, et al. **J Assoc Physicians India** 1995 Jan;43(1):36, 41

Comparison of oral bambuterol and terbutaline in elderly patients with chronic reversible airflow obstruction. McDonald CF, et al. **J Asthma** 1997;34(1):53–9

Application of population pharmacokinetics to the optimization of theophylline therapy. Otero MJ, et al. **J Clin Pharm Ther** 1996 Apr;21(2):113–25

Treatment of acute bronchitis in adults without underlying lung disease [see comments] MacKay DN. **J Gen Intern Med** 1996 Sep;11(9):557–62 (48 ref.). Comment in: ACP J Club 1997 Mar-Apr;126(2):39.

Effects of a short course of treatment with acebrophylline on the mucus rheological characteristics and respiratory function parameters in patients suffering from chronic obstructive pulmonary disease. Agliati G. **J Int Med Res** 1996 May-Jun;24(3):302–10

Influence of a potential anti-asthmatic drug, CR 2039, upon the anticonvulsive activity of conventional antiepileptics against maximal electroshock-induced seizures in mice. Czuczwar SJ, et al. **J Neural Transm** 1996;103(12):1371–9

Ambroxol improves the broncho-spasmolytic activity of clenbuterol in the guinea-pig. Pairet M, et al. **J Pharm Pharmacol** 1997 Feb;49(2):184–6

Theophylline for infants with abnormal pneumographic results. A randomized double blind, placebo-controlled trial. Paky F, et al. **Klin Padiatr** 1997 Mar-Apr;209(2):66–70

Randomised trial of intravenous salbutamol in early management of acute severe asthma in children [see comments] Browne GJ, et al. **Lancet** 1997 Feb 1; 349(9048):301–5. Comment in: Lancet 1997 Apr 5;349(9057):1030.

Shrinking lungs syndrome in systemic lupus erythematosus: improvement with inhaled beta-agonist therapy. Muñoz-Rodríguez FJ, et al. **Lupus** 1997;6(4):412–4

Low-dose theophylline: a new anti-inflammatory role in asthma management? MacLeod D, et al. **Monaldi Arch Chest Dis** 1996 Feb;51(1):30–4 (49 ref.)

Bronchodilators and chronic obstructive pulmonary disease [letter] Singh A. **N Z Med J** 1997 Aug 8;110(1049):300

Ipratropium bromide (Atrovent) nasal spray. A new treatment for rhinorrhea [news] Pfister SM. **Nurse Pract** 1996 Jul;21(7):104, 107–8 (8 ref.)

Use of racemic epinephrine, dexamethasone, and mist in the outpatient management of croup. Kunkel NC, et al. **Pediatr Emerg Care** 1996 Jun;12(3):156–9

Theophylline in acute asthma [letter; comment] Carter ER. **Pediatr Pulmonol** 1996 Nov;22(5):331–2. Comment on: Pediatr Pulmonol 1996 Apr;21(4):211–8.

Theophylline in acute childhood asthma: a meta-analysis of its efficacy [see comments] Goodman DC, et al. **Pediatr Pulmonol** 1996 Apr;21(4):211–8. Comment in: Pediatr Pulmonol 1996 Nov;22(5):331–2.

Effect of asthma treatment on urinary growth hormone excretion in children [letter; comment] Nikolaizik WH. **Pediatr Pulmonol** 1997 Feb;23(2):126–7. Comment on: Pediatr Pulmonol 1996 Jun;21(6):361–6.

Effect of asthma treatment on urinary growth hormone excretion in children [see comments] O'Leary PC, et al. **Pediatr Pulmonol** 1996 Jun;21(6):361–6. Comment in: Pediatr Pulmonol 1997 Feb;23(2):126–7.

Are beta-adrenergic bronchodilators safe?[comment] Eggleston PA. **Pediatrics** 1997 May;99(5):729–30. Comment on: Pediatrics 1997 May;99(5):655–9.

Potassium channel activation: a potential therapeutic approach? Lawson K. **Pharmacol Ther** 1996;70(1):39–63 (301 ref.)

Relation between theophylline and circulating vitamin levels in children with asthma. Shimizu T, et al. **Pharmacology** 1996 Dec;53(6):384–9

'Functional relaxation' reduces acute airway obstruction in asthmatics as effectively as inhaled terbutaline. Loew TH, et al. **Psychother Psychosom** 1996;65(3):124–8

Speeds of action of single doses of formoterol and salbutamol compared with placebo in reversing methacholine-induced bronchoconstriction. Beach JR, et al. **Pulm Pharmacol** 1996 Aug;9(4):245–9

A combination with clinical recommended dosages of salmeterol and ipratropium is not more effective than salmeterol alone in patients with chronic obstructive pulmonary disease. Matera MG, et al. **Respir Med** 1996 Sep;90(8):497–9

Pharmacotherapy of respiratory muscles in chronic obstructive pulmonary disease. van der Heijden HF, et al. **Respir Med** 1996 Oct;90(9):513–22 (101 ref.)

Therapeutic equivalence of a novel HFA134a-containing metered-dose inhaler and the conventional CFC inhaler (Berodual) for the delivery of a fixed combination of fenoterol/ipratropium bromide. A randomized double-blind placebo-controlled crossover study in patients with asthma. Maesen FP, et al. **Respiration** 1997; 64(4):273–80

Analysis of variability in interpretation of spirometric tests. Quadrelli SA, et al. **Respiration** 1996;63(3):131–6 (28 ref.)

Thermogenic effect of bronchodilators in patients with chronic obstructive pulmonary disease. Burdet L, et al. **Thorax** 1997 Feb;52(2):130–5

Relative effects of inhaled corticosteroids on immunopathology and physiology in asthma: a controlled study. Burke CM, et al. **Thorax** 1996 Oct;51(10):993–9

Effects of cessation of terbutaline treatment on airway obstruction and responsiveness in patients with chronic obstructive pulmonary disease. de Jong JW, et al. **Thorax** 1996 Jul;51(7):684–8

Adenosine monophosphate and histamine induced bronchoconstriction: repeatability and protection by terbutaline. Egbagbe E, et al. **Thorax** 1997 Mar; 52(3):239–43

Potentiation of the bronchoprotective effects of vasoactive intestinal peptide, isoprenaline, and theophylline against histamine challenge in anaesthetised guinea pigs by adrenomedullin. Kanazawa H, et al. **Thorax** 1996 Dec; 51(12):1199–202

Relationship between bronchial reversibility and tracheobronchial clearance in patients with chronic bronchitis. Moretti M, et al. **Thorax** 1997 Feb;52(2):176–80

How general practitioners manage acute asthma attacks. Neville RG, et al. **Thorax** 1997 Feb;52(2):153–6

Effects of montelukast (MK-0476), a potent cysteinyl leukotriene receptor antagonist, on bronchodilation in asthmatic subjects treated with and without inhaled corticosteroids. Reiss TF, et al. **Thorax** 1997 Jan;52(1):45–8

Effects of the long acting beta agonist formoterol on asthma control in asthmatic patients using inhaled corticosteroids. The Netherlands and Canadian Formoterol Study Investigators. van der Molen T, et al. **Thorax** 1997 Jun; 52(6):535–9

[Usefulness of bronchodilator agents in infants under the age of 2 years] Fayon M. **Arch Pediatr** 1997;4(2 Suppl 2):78s–81s (37 ref.) **(Fre)**

[Clinical investigation of the action of tramazoline inpatients with chronic obstructive bronchitis. The importance of mucosal swelling] Schött D, et al. **Arzneimittelforschung** 1996 Dec;46(12):1127–30 (Eng. Abstr.) **(Ger)**

[Theophylline and selective phosphodiesterase inhibitor in therapy of obstructive respiratory tract diseases] Rabe KF, et al. **Pneumologie** 1997 Mar;51(3):303–16 (140 ref.) **(Ger)**

[The effect of formoterol on light or moderate bronchial asthma due to allergy to Parietaria officinalis] Pacor ML, et al. **Clin Ter** 1996 Nov;147(11):567–70 (Eng. Abstr.) **(Ita)**

[Controlled clinical study of doxophylline versus aminophylline in the treatment of acute cardiorespiratory insufficiency syndromes] Checchini M, et al. **Minerva Cardioangiol** 1997 Apr;45(4):185–90 (Eng. Abstr.) **(Ita)**

[Myoglobinuria following anesthesia with enflurane and succinylcholine in an asthmatic child on theophylline] Shono S, et al. **Masui** 1996 Jan;45(1):91–5 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Slow-release theophylline for the treatment of asthmatic children] Iwasaki E, et al. **Nippon Rinsho** 1996 Nov; 54(11):3102–7 (11 ref.) (Eng. Abstr.) **(Jpn)**

[The clinical application of long-acting preparations of theophylline] Tanaka K. **Nippon Rinsho** 1996 Nov; 54(11):3108–12 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Serevent in the treatment of moderate bronchial asthma] Panghea P, et al. **Pneumoftiziologia** 1996 Jul-Dec; 45(3–4):145–8 (Eng. Abstr.) **(Rum)**

[Clinical trial of ventax (long-acting theophylline) in chronic obstructive bronchitis] Nikitina AV, et al. **Klin Med (Mosk)** 1997;75(1):40–1 (Eng. Abstr.) **(Rus)**

[The relationships between the broncholytic and diuretic effects of theophylline in patients with obstructive lung diseases combined with oxalosis] Pospekhova GP, et al. **Ter Arkh** 1997;69(3):47–9 **(Rus)**

[The interrelation of autonomic homeostasis and the broncho-obstructive syndrome in patients with chronic bronchitis and the effect of broncholytic therapy with salʼtos] Sokolov AV, et al. **Ter Arkh** 1996;68(11):70–2 **(Rus)**

[Theophyllines of 12- and 24-hour sustained-release. Comparative study] Vendrell M, et al. **Arch Bronconeumol** 1996 Oct;32(8):397–402 (Eng. Abstr.) **(Spa)**

[Update on beta-adrenergic agonists and corticosteroid aerosols (editorial)] Spector S. **Rev Alerg Mex** 1993 Nov-Dec;40(6):i–iv **(Spa)**

TOXICITY

Study of the effects of theophylline-related changes in total, free, short- chain acyl and long-chain acyl carnitine concentrations in rat heart. Alhomida AS. **Toxicology** 1997 Sep 5;121(3):205–13

BRONCHODILATOR AGENTS

URINE

Lung bioavailability of chlorofluorocarbon free, dry powder and chlorofluorocarbon containing formulations of salbutamol [letter; comment] Chrystyn H.
Br J Clin Pharmacol 1996 Aug;42(2):257–8. Comment on: Br J Clin Pharmacol 1996 Mar;41(3):247–9.

Evaluation of plasma and urinary salbutamol levels in COPD. Clark DJ, et al. **Eur J Clin Pharmacol** 1996;51(1):91–3

BRONCHOGENIC CYST

Complete absence of the pericardium with bronchogenic cyst. Ruchman RB, et al. **N J Med** 1996 Aug;93(8):27–9

[Bronchogenic cyst] Amitai M, et al. **Harefuah** 1997 Feb 16; 132(4):308–9 **(Heb)**

[A case of bronchogenic diaphragmatic cyst] Shlenova LA, et al. **Vestn Rentgenol Radiol** 1996 Sep–Oct;(5):37–9 **(Rus)**

CHEMISTRY

Calcium within a bronchogenic cyst with a fluid level. Aydingöz U, et al. **Br J Radiol** 1997 Jul;70(835):761–3

COMPLICATIONS

An unusual cause of dysphagia. Ghiacy S, et al.
Br J Clin Pract 1996 Oct–Nov;50(7):402–3

Persisting unilateral lung hypoperfusion after resection of a subcarinal bronchogenic cyst. Barker M, et al.
Eur Respir J 1996 Apr;9(4):844–5

Fourth branchial pouch cyst: an unusual cause of neonatal stridor. Sharma HS, et al.
Int J Pediatr Otorhinolaryngol 1996 Dec 20;38(2):155–61

CONGENITAL

Four cases of developmental foregut cysts. Tan YK, et al.
Ann Acad Med Singapore 1996 Sep;25(5):763–8

Congenital mediastinal bronchogenic cyst with malignant transformation: an autopsy report. Okada Y, et al.
Pathol Int 1996 Aug;46(8):594–600

DIAGNOSIS

Primary pulmonary chondrosarcoma mimicking bronchogenic cyst on CT and MRI. Parker LA, et al.
Clin Imaging 1996 Jul–Sep;20(3):181–3

Isolate abdominal bronchogenic cyst: a case report. Cetinkurşun S, et al. **Eur J Pediatr Surg** 1997 Apr; 7(2):103–5 (12 ref.)

Bronchogenic cyst: a rare cause of a retroperitoneal mass. Menke H, et al. **Eur J Surg** 1997 Apr;163(4):311–4 (14 ref.)

Bronchogenic cysts: clinicopathological presentation and treatment. Aktoğu S, et al. **Eur Respir J** 1996 Oct; 9(10):2017–21

Retroperitoneal bronchogenic cyst in a young adult. Rešl M, et al. **Respiration** 1996;63(6):387–9

Retroperitoneal bronchogenic cyst masquerading clinically and radiologically as a phaeochromocytoma. Doggett RS, et al. **Virchows Arch** 1997 Jul;431(1):73–6

[Retroperitoneal adrenal subdiaphragmatic bronchogenic cyst: apropos of a case and review of the literature] Bochereau G, et al. **Prog Urol** 1996 Aug–Sep;6(4):573–7 (14 ref.) (Eng. Abstr.) **(Fre)**

[Imaging of bronchogenic cysts] Procacci C, et al.
Radiol Med (Torino) 1996 Jul–Aug;92(1–2):41–6 (Eng. Abstr.) **(Ita)**

[Thymic cyst resembling a bronchogenic cyst] Taniwaki S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):201–4 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Retroperitoneal bronchogenic cyst: a case report. Hsieh SP, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 May; 59(5):311–4

Congenital mediastinal bronchogenic cyst with malignant transformation: an autopsy report. Okada Y, et al.
Pathol Int 1996 Aug;46(8):594–600

Bronchogenic and esophageal duplication cyst in a single mediastinal mass in a child. Horwitz JR, et al.
Pediatr Pathol Lab Med 1996 Jan–Feb;16(1):113–8

Bronchial atresia with bronchocele. Lopez-Corella E.
Pediatr Pathol Lab Med 1996 Jan–Feb;16(1):149–53

[Vestigial cysts of the anterior intestine of unusual localization. Report of two cases] Magois C, et al.
Ann Pathol 1996 Sep;16(4):276–8 (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

Persisting unilateral lung hypoperfusion after resection of a subcarinal bronchogenic cyst. Barker M, et al.
Eur Respir J 1996 Apr;9(4):844–5

Combined sequestration, bronchogenic cyst, and dysgenetic lung simulating congenital lobar emphysema. Williams S, et al. **South Med J** 1996 Dec;89(12):1220–2

[Radiological case of the month. Bronchogenic cyst] Ben Becher S, et al. **Arch Pediatr** 1997 Jun;4(6):581–2 **(Fre)**

[Bronchogenic cyst. A rare benign esophageal tumor] Zaunbauer W, et al. **Radiologe** 1996 Dec;36(12):991–5 (13 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Resection of a bronchogenic cyst involving the wall of the mainstem bronchus and repair utilizing a pedicled pericardial flap. Tripp HF, et al. **Am Surg** 1997 Sep; 63(9):785–7

Spillage of cystic pulmonary masses into the airway during anesthesia. Politis GD, et al. **Anesthesiology** 1997 Sep; 87(3):693–6

Thoracoscopic excision of bronchogenic cyst of the oesophagus--a case report. Sim EW, et al.
Ann Acad Med Singapore 1996 Sep;25(5):730–1 (8 ref.)

Excision of bronchogenic cysts in children using an ultrathin fibreoptic bronchoscope. Monrigal JP, et al.
Can J Anaesth 1996 Jul;43(7):694–6

Bronchogenic cysts: a review of 20 cases. Cuypers P, et al.
Eur J Cardiothorac Surg 1996;10(6):393–6

A retroperitoneal bronchogenic cyst treated with laparoscopic surgery. Tokuda N, et al. **J Urol** 1997 Feb; 157(2):619 (3 ref.)

[A resected case of bronchogenic cyst of the left hemidiaphragm with elevated serum CA19–9] Nakamura A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan; 45(1):79–83 (Eng. Abstr.) **(Jpn)**

[A case report of huge bronchogenic cyst originated in the atrial septum] Soeda T, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 Sep;44(9):1781–6 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Endosonography of an abdominal bronchogenic cyst. Carpenter S, et al. **Gastrointest Endosc** 1996 Aug; 44(2):197–9

[A case of abdominal bronchogenic cyst which had interesting ultrasonographic finding, and contained fluid with an increase in amylase] Hase N, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Aug;93(8):594–8 (19 ref.) **(Jpn)**

BRONCHOGRAPHY

High-resolution CT in the acute exacerbation of cystic fibrosis: evaluation of acute findings, reversibility of those findings, and clinical correlation. Shah RM, et al.
AJR Am J Roentgenol 1997 Aug;169(2):375–80

Bronchoarterial ratio on thin section CT: comparison between high altitude and sea level. Kim JS, et al.
J Comput Assist Tomogr 1997 Mar–Apr;21(2):306–11

Evaluation of the air bronchogram sign on CT in solitary pulmonary lesions. Kui M, et al.
J Comput Assist Tomogr 1996 Nov–Dec;20(6):983–6

Tracheobronchography in children. Deutsch ES, et al.
Laryngoscope 1996 Oct;106(10):1248–54

Upper airway obstruction in infants and children: evaluation by tracheobronchography with a non-ionic contrast agent. Lee T, et al. **Pediatr Radiol** 1997 Mar;27(3):276–80

Evaluation of contrast media for bronchography. Thompson IM, et al. **Pediatr Radiol** 1997 Jul;27(7):598–605

Telescoping bronchial anastomoses for unilateral or bilateral sequential lung transplantation: CT appearance. McAdams HP, et al. **Radiology** 1997 Apr;203(1):202–6

Airway changes in chronic pulmonary embolism: CT findings in 33 patients. Remy-Jardin M, et al. **Radiology** 1997 May; 203(2):355–60

Computer-tomographically guided fiberbronchoscopic transbronchial biopsy of small pulmonary lesions: a feasibility study. Wagner U, et al. **Respiration** 1996; 63(3):181–6

Surgical treatment of endobronchial tuberculosis. Hsu HS, et al. **Scand Cardiovasc J** 1997;31(2):79–82

[Pulmonary changes in high-resolution spiral CT in Williams-Campbell syndrome] Pauleit D, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Dec;165(6):589–91 **(Ger)**

[Phantom study of optimization of spiral-CT and 3D reconstruction of the tracheobronchial system] Wolcke B, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Dec;165(6):574–7 (Eng. Abstr.) **(Ger)**

[Computerized tomography features of the accessory cardiac bronchus. A case report] Minutoli F, et al.
Radiol Med (Torino) 1997 Apr;93(4):464–6 **(Ita)**

HISTORY

[Hydrosoluble contrast medium for bronchography. A Mexican priority. 1946] Quijano-Pitman F.
Gac Med Mex 1996 Nov–Dec;132(6):639 **(Spa)**

METHODS

Helical CT in evaluation of the bronchial tree. Perhomaa M, et al. **Acta Radiol** 1997 Jan;38(1):83–91

Computed tomography of the airways. Worthy SA, et al.
Eur Radiol 1996;6(5):717–29 (98 ref.)

[Spiral CT and 3-D reconstruction of the tracheobronchial tree for the selection of the proper double-lumen tubes before individual lung ventilation] Vogel N, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Feb;166(2):159–61 (Eng. Abstr.) **(Ger)**

[Three-dimensional reconstruction images of central airway using spiral CT: experimental and clinical studies in the demonstrability of tracheobronchial lesions] Mimura F, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):649–56 (Eng. Abstr.) **(Jpn)**

BRONCHOPNEUMONIA

New murine model of bronchopneumonia due to cell-bound Haemophilus influenzae. Miyazaki S, et al. **J Infect Dis** 1997 Jan;175(1):205–9

BLOOD

White blood cell count, C-reactive protein and erythrocyte sedimentation rate in respiratory syncytial virus infection of the lower respiratory tract. Saijo M, et al.
Acta Paediatr Jpn 1996 Dec;38(6):596–600

COMPLICATIONS

Hypoxaemia and bronchopneumonia in infants less than six months of age. Brady JP, et al. **Cent Afr J Med** 1996 Jun; 42(6):163–5

EPIDEMIOLOGY

Risk factors of acute lower respiratory tract infections in children under five years of age. Dharmage SC, et al.
Southeast Asian J Trop Med Public Health 1996 Mar; 27(1):107–10

IMMUNOLOGY

Airway interleukin-8 in elderly patients with bacterial lower respiratory tract infections. Ponglertnapagorn P, et al.
Microbiol Immunol 1996;40(2):177–82

MICROBIOLOGY

Histology and microbiology of ventilator-associated pneumonias. Rouby JJ. **Semin Respir Infect** 1996 Mar; 11(1):54–61 (20 ref.)

[Bronchopneumonia caused by Neisseria meningitidis--probable transmission by a family member who had been in Hong Kong] Ohtaki M, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 Apr;35(4):461–5 (10 ref.) (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Hartmannella vermiformis isolated from the cerebrospinal fluid of a young male patient with meningoencephalitis and bronchopneumonia. Centeno M, et al. **Arch Med Res** 1996 Winter;27(4):579–86

Histology and microbiology of ventilator-associated pneumonias. Rouby JJ. **Semin Respir Infect** 1996 Mar; 11(1):54–61 (20 ref.)

PHYSIOPATHOLOGY

Experimental infections with some pneumotropic viruses in the mouse. Note II. Virological and pathomorphological aspects of experimental associated infections with parainfluenza virus, adenovirus and respiratory syncytial virus in the mouse. Petica M, et al. **Rom J Virol** 1995 Jul–Dec;46(3–4):145–60

RADIOGRAPHY

[Unilateral lung transradiency. Swyer-James or MacLeod syndrome] Köcher M, et al. **Radiologe** 1997 Jun;37(6):486–9 **(Ger)**

VETERINARY

Polymerase chain reaction for detection of guinea pig adenovirus. Pring-Akerblom P, et al.
J Vet Diagn Invest 1997 Jul;9(3):232–6

Immunohistochemical detection of Haemophilus parasuis serovar 5 in formalin-fixed, paraffin-embedded tissues of experimentally infected swine. Segalés J, et al.
J Vet Diagn Invest 1997 Jul;9(3):237–43

Bacteria associated with enzootic pneumonia in goats. Orós J, et al. **Zentralbl Veterinarmed [B]** 1997 Apr;44(2):99–104

VIROLOGY

[Bronchopneumonia, obstructive bronchitis and bronchiectasis in children with adenovirus infections] Koncul I, et al. **Lijec Vjesn** 1997 Jan;119(1):11–5 (Eng. Abstr.) **(Scr)**

BRONCHOPULMONARY ASPERGILLOSIS see **ASPERGILLOSIS, ALLERGIC BRONCHOPULMONARY**

BRONCHOPULMONARY DYSPLASIA

Eosinophilia in premature infants: correlation with chronic lung disease. Yamamoto C, et al. **Acta Paediatr** 1996 Oct; 85(10):1232–5

Experimental models of bronchopulmonary dysplasia. Coalson JJ. **Biol Neonate** 1997;71 Suppl 1:35–8 (23 ref.)

Bronchopulmonary dysplasia in the 1990s: a review for the pediatrician. Farrell PA, et al. **Curr Probl Pediatr** 1997 Apr; 27(4):129–63 (112 ref.)

Intrathecal morphine for postoperative analgesia in an infant with bronchopulmonary dysplasia following upper abdominal surgery [see comments] Krechel SW, et al.
Paediatr Anaesth 1996;6(5):423–6. Comment in: Paediatr Anaesth 1997;7(3):262.

Bronchopulmonary dysplasia: pre- and postnatal influences and outcome. Hislop AA. **Pediatr Pulmonol** 1997 Feb;

23(2):71–5 (51 ref.)
Consequences of hypogammaglobulinemia and steroid therapy in severe bronchopulmonary dysplasia. Wheeler W, et al. **Pediatr Pulmonol** 1996 Aug;22(2):96–100

BLOOD

Altered platelet-activating factor levels and acetylhydrolase activities are associated with increasing severity of bronchopulmonary dysplasia. Gaylord MS, et al. **Am J Med Sci** 1996 Oct;312(4):149–54
Erythropoietin therapy in neonates at risk of having bronchopulmonary dysplasia and requiring multiple transfusions. Al-Kharfy T, et al. **J Pediatr** 1996 Jul; 129(1):89–96

CLASSIFICATION

Spectrum of clinical and cardiac dysfunction in bronchopulmonary dysplasia: early prediction of long-term morbidity. Shekhawat PS, et al. **J Perinatol** 1997 Mar–Apr; 17(2):95–100

COMPLICATIONS

Vitamin A deficiency and severe bronchopulmonary dysplasia in very low birthweight infants. Verma RP, et al. **Am J Perinatol** 1996 Oct;13(7):389–93
Respiratory morbidity in young school children born prematurely--chronic lung disease is not a risk factor? Greenough A, et al. **Eur J Pediatr** 1996 Sep;155(9):823–6
Bronchopulmonary dysplasia in infants with respiratory distress syndrome in a developing country: a prospective single centre-based study. Smith J, et al. **Eur J Pediatr** 1996 Aug;155(8):672–7
"Silent" patent ductus arteriosus and bronchopulmonary dysplasia in low birth weight infants. Zanardo V, et al. **J Perinat Med** 1995;23(6):493–9
Spectrum of clinical and cardiac dysfunction in bronchopulmonary dysplasia: early prediction of long-term morbidity. Shekhawat PS, et al. **J Perinatol** 1997 Mar–Apr; 17(2):95–100
Bronchopulmonary dysplasia and family history of asthma [editorial; comment] Nickerson B. **Pediatr Pulmonol** 1995 Nov;20(5):276. Comment on: Pediatr Pulmonol 1995 Nov;20(5):277–83.
Reduction of respiratory syncytial virus hospitalization among premature infants and infants with bronchopulmonary dysplasia using respiratory syncytial virus immune globulin prophylaxis. The PREVENT Study Group [see comments] **Pediatrics** 1997 Jan;99(1):93–9. Comment in: Pediatrics 1997 Aug;100(2 Pt 1):275–6.
[Treatment by CO2 broncho-laser for acquired tracheobronchial stenosis in children with bronchopulmonary dysplasia] Wagner I, et al. **Arch Pediatr** 1996 Nov;3(11):1079–83 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Pulmonary function in infants with neonatal chronic lung disease with or without hyaline membrane disease at birth. Merth IT, et al. **Eur Respir J** 1997 Jul;10(7):1606–13
Eosinophil cationic protein in tracheal aspirates of preterm infants with bronchopulmonary dysplasia. Raghavender B, et al. **J Pediatr** 1997 Jun;130(6):944–7
Prenatal information of lungs and bronchopulmonary dysplasia [letter; comment] Grigg J. **Pediatrics** 1997 Jan; 99(1):144. Comment on: Pediatrics 1996 Feb;97(2):210–5.
[Acute decompensations of bronchopulmonary dysplasia: management and prevention] Labbé A, et al. **Arch Pediatr** 1997;4(2 Suppl 2):65s–68s (31 ref.) **(Fre)**

DRUG THERAPY

Corticosteroid treatment of chronic lung disease in ventilator-dependent neonates [letter; comment] Milerad J. **Acta Paediatr** 1996 Jun;85(6):757. Comment on: Acta Paediatr 1996 Jun;85(6):713–8.
Response to dexamethasone in ventilated preterm infants: effect of radiographic subtype of chronic lung disease. Kothadia JM, et al. **Am J Perinatol** 1996 Aug;13(6):377–81
Effect of dexamethasone on IL-2 and IL-3 production by mononuclear cells in neonates and adults. Bessler H, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov; 75(3):F197–201
Effect of dexamethasone therapy on cerebral and ocular blood flow velocity in premature infants studied by colour Doppler flow imaging. Cabañas F, et al. **Eur J Pediatr** 1997 Jan;156(1):41–6
Inhaled versus systemic steroids in chronic oxygen dependency of preterm infants. Dimitriou G, et al. **Eur J Pediatr** 1997 Jan;156(1):51–5
Dexamethasone associated systemic hypertension in low birth weight babies with chronic lung disease. Smets K, et al. **Eur J Pediatr** 1996 Jul;155(7):573–5
Pituitary-adrenal suppression and recovery in preterm very low birth weight infants after dexamethasone treatment for bronchopulmonary dysplasia. Ng PC, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2429–32
Potential role of interleukin-1 in the development of bronchopulmonary dysplasia. Rindfleisch MS, et al. **J Interferon Cytokine Res** 1996 May;16(5):365–73
Early ribavirin treatment did not prevent severe disease in high-risk bronchopulmonary dysplasia patients with respiratory syncytial virus infection [letter] De Boeck K, et al. **Pediatr Pulmonol** 1996 May;21(5):343
Efficiency of aerosol medication delivery from a metered dose inhaler versus jet nebulizer in infants with bronchopulmonary dysplasia. Fok TF, et al. **Pediatr Pulmonol** 1996 May;21(5):301–9
Lower gastrointestinal tract perforation in preterm infants treated with dexamethasone for bronchopulmonary dysplasia. Ng PC, et al. **Pediatr Surg Int** 1997 Feb; 12(2–3):211–2
Pulmonary effect of inhaled furosemide in ventilated infants with severe bronchopulmonary dysplasia. Kugelman A, et al. **Pediatrics** 1997 Jan;99(1):71–5
Pulmonary effect of inhaled furosemide in ventilated infants with severe bronchopulmonary dysplasia [letter] Prabhu VG. **Pediatrics** 1997 Sep;100(3 Pt 1):420–1
[Bronchopulmonary dysplasia. Retrospective analysis of various forms of treatment and development of a staged therapeutic plan] Bauer J, et al. **Klin Padiatr** 1996 Mar–Apr; 208(2):56–60 (Eng. Abstr.) **(Ger)**
[Effect of dexamethasone and spironolactone therapy on diuresis and creatine clearance in premature infants with a birth weight below 1,500 g] Sonntag J. **Klin Padiatr** 1996 Nov–Dec;208(6):319–22 (Eng. Abstr.) **(Ger)**

EMBRYOLOGY

Prenatal information of lungs and bronchopulmonary dysplasia [letter; comment] Grigg J. **Pediatrics** 1997 Jan; 99(1):144. Comment on: Pediatrics 1996 Feb;97(2):210–5.

EPIDEMIOLOGY

Blood transfusion and chronic lung disease in preterm infants. Cooke RW, et al. **Eur J Pediatr** 1997 Jan;156(1):47–50
Bronchopulmonary dysplasia in infants with respiratory distress syndrome in a developing country: a prospective single centre-based study. Smith J, et al. **Eur J Pediatr** 1996 Aug;155(8):672–7
Follow-up of school-age children with bronchopulmonary dysplasia. Giacoia GP, et al. **J Pediatr** 1997 Mar; 130(3):400–8
Early versus late identification of infants at high risk of developing moderate to severe bronchopulmonary dysplasia. Rozycki HJ, et al. **Pediatr Pulmonol** 1996 Jun; 21(6):345–52

ETIOLOGY

Tracheobronchomalacia in preterm infants with chronic lung disease. Doull IJ, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 May;76(3):F203–5
Retinopathy of prematurity: systemic complications associated with different anaesthetic techniques at treatment. Haigh PM, et al. **Br J Ophthalmol** 1997 Apr; 81(4):283–7
The effect of pre-ECLS ventilation time on survival and respiratory morbidity in the neonatal population. Lewis DA, et al. **J Pediatr Surg** 1996 Aug;31(8):1110–4; discussion 1114–5
Evidence for magnesium deficiency in the pathogenesis of bronchopulmonary dysplasia (BPD). Caddell JL. **Magnes Res** 1996 Oct;9(3):205–16 (116 ref.)
Ureaplasma urealyticum and pulmonary outcome in a neonatal intensive care population. Pacifico L, et al. **Pediatr Infect Dis J** 1997 Jun;16(6):579–86
Endothelin-1 has a priming effect on production of superoxide anion by alveolar macrophages: its possible correlation with bronchopulmonary dysplasia. Kojima T, et al. **Pediatr Res** 1996 Jan;39(1):112–116

GENETICS

Evidence from twin study implies possible genetic susceptibility to bronchopulmonary dysplasia. Parker RA, et al. **Semin Perinatol** 1996 Jun;20(3):206–9

IMMUNOLOGY

Influenza immunization for children with bronchopulmonary dysplasia in Poland [letter] Brydak LB, et al. **Pediatr Infect Dis J** 1997 May;16(5):538–9

METABOLISM

Elevated cytokine levels in tracheobronchial aspirate fluids from ventilator treated neonates with bronchopulmonary dysplasia. Tullus K, et al. **Eur J Pediatr** 1996 Feb; 155(2):112–6
Ontogeny of Clara cell-specific protein and its mRNA: their association with neuroepithelial bodies in human fetal lung and in bronchopulmonary dysplasia. Khoor A, et al. **J Histochem Cytochem** 1996 Dec;44(12):1429–38
Evidence for magnesium deficiency in the pathogenesis of bronchopulmonary dysplasia (BPD). Caddell JL. **Magnes Res** 1996 Oct;9(3):205–16 (116 ref.)
Biochemical, clinical, and morphologic studies on lungs of infants with bronchopulmonary dysplasia. Cherukupalli K, et al. **Pediatr Pulmonol** 1996 Oct;22(4):215–29
Lung manganese superoxide dismutase protein expression increases in the baboon model of bronchopulmonary dysplasia and is regulated at a posttranscriptional level. Clerch LB, et al. **Pediatr Res** 1996 Feb;39(2):253–8
Increase in interleukin (IL)-1 beta and IL-6 in bronchoalveolar lavage fluid obtained from infants with chronic lung disease of prematurity. Kotecha S, et al. **Pediatr Res** 1996 Aug;40(2):250–6
Plasminogen activator activity in preterm infants with respiratory distress syndrome: relationship to the development of bronchopulmonary dysplasia. Singhal KK, et al. **Pediatr Res** 1996 Feb;39(2):229–35

MICROBIOLOGY

Ureaplasma urealyticum colonization, prematurity and bronchopulmonary dysplasia. van Waarde WM, et al. **Eur Respir J** 1997 Apr;10(4):886–90 (26 ref.)
Role of Ureaplasma urealyticum and Chlamydia trachomatis in development of bronchopulmonary dysplasia in very low birth weight infants. Da Silva O, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):364–9

PATHOLOGY

Chronic lung injury in preterm lambs: disordered pulmonary elastin deposition. Pierce RA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L452–60
Prenatal dexamethasone administration to premature rats exposed to prolonged hyperoxia: a new rat model of pulmonary fibrosis (bronchopulmonary dysplasia). Chen Y, et al. **J Pediatr** 1997 Mar;130(3):409–16
Biochemical, clinical, and morphologic studies on lungs of infants with bronchopulmonary dysplasia. Cherukupalli K, et al. **Pediatr Pulmonol** 1996 Oct;22(4):215–29
Markers and mediators of inflammation in neonatal lung disease. Ozdemir A, et al. **Pediatr Pulmonol** 1997 Apr; 23(4):292–306 (153 ref.)

PHYSIOPATHOLOGY

Mechanisms of tissue injury by oxygen radicals: implications for neonatal disease. Saugstad OD. **Acta Paediatr** 1996 Jan; 85(1):1–4 (32 ref.)
Linear and nonlinear properties of heart rate control in infants at risk. Patzak A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R540–7
Pulmonary function until two years of life in infants with bronchopulmonary dysplasia. Baraldi E, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):149–55
Exercise ability in survivors of severe bronchopulmonary dysplasia. Jacob SV, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1925–9
Long-term grating acuity and visual-field development in preterm children who experienced bronchopulmonary dysplasia. Harvey EM, et al. **Dev Med Child Neurol** 1997 Mar;39(3):167–73
Total energy expenditure in infants with bronchopulmonary dysplasia is associated with respiratory status. de Meer K, et al. **Eur J Pediatr** 1997 Apr;156(4):299–304
Bronchopulmonary dysplasia and very low birthweight: lung function at 11 years of age. Doyle LW, et al. **J Paediatr Child Health** 1996 Aug;32(4):339–43
Effects of dexamethasone on blood pressure in premature infants with bronchopulmonary dysplasia. Marinelli KA, et al. **J Pediatr** 1997 Apr;130(4):594–602
Evolution and natural history of chronic lung disease of prematurity. Hulsmann AR, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):272–7 (66 ref.)
Diffusing capacity of the lung in school-aged children born very preterm, with and without bronchopulmonary dysplasia. Hakulinen AL, et al. **Pediatr Pulmonol** 1996 Jun; 21(6):353–60
Long-term pulmonary functional outcome of bronchopulmonary dysplasia and premature birth. Parat S, et al. **Pediatr Pulmonol** 1995 Nov;20(5):289–96
Prenatal information of lungs and bronchopulmonary dysplasia [letter; comment] Grigg J. **Pediatrics** 1997 Jan; 99(1):144. Comment on: Pediatrics 1996 Feb;97(2):210–5.
[Evolution of the result of respiratory function studies in children with bronchopulmonary dysplasia] Vural M, et al. **Arch Pediatr** 1996 Dec;3(12):1229–38 (Eng. Abstr.) **(Fre)**

PREVENTION & CONTROL

Is chronic lung disease (CLD) in premature infants preventable? [editorial] Yeh TF. **Acta Paediatr Sin** 1996 Jul–Aug;37(4):241–3 (17 ref.)
The effects of antenatal steroid use in premature rupture of membranes. Tucker L, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):390–2
Vitamin A to prevent bronchopulmonary dysplasia in very-low-birth-weight infants: has the dose been too low? The NICHD Neonatal Research Network. Kennedy KA, et al. **Early Hum Dev** 1997 Jul 24;49(1):19–31
Vitamin A supplementation in premature neonates with postnatal lung injury. Italian Collaborative Group on Preterm Delivery (ICGPD). **Int J Clin Pharmacol Ther** 1996 Aug;34(8):362–5
Strategies to prevent chronic neonatal lung disease. Schindler MB. **J Paediatr Child Health** 1996 Dec;32(6):477–9 (33 ref.)
Multicenter controlled clinical trial of high-frequency jet ventilation in preterm infants with uncomplicated respiratory distress syndrome. Keszler M, et al. **Pediatrics** 1997 Oct;100(4):593–9
[Acute decompensations of bronchopulmonary dysplasia: management and prevention] Labbé A, et al. **Arch Pediatr** 1997;4(2 Suppl 2):65s–68s (31 ref.) **(Fre)**

BRONCHOPULMONARY DYSPLASIA

RADIOGRAPHY

Response to dexamethasone in ventilated preterm infants: effect of radiographic subtype of chronic lung disease. Kothadia JM, et al. **Am J Perinatol** 1996 Aug;13(6):377–81

Chest radiograph abnormalities in very low birthweight survivors of chronic neonatal lung disease. Fitzgerald DA, et al. **J Paediatr Child Health** 1996 Dec;32(6):491–4

Bronchopulmonary dysplasia: correlation of radiographic and clinical findings. Breysem L, et al. **Pediatr Radiol** 1997 Aug; 27(8):642–6

RADIONUCLIDE IMAGING

Pulmonary perfusion scintigraphy in the evaluation of the severity of bronchopulmonary dysplasia. Soler C, et al. **Pediatr Radiol** 1997 Jan;27(1):32–5

SURGERY

Early repair of inguinal hernia in preterm infants with oxygen-dependent bronchopulmonary dysplasia. Emberton M, et al. **Acta Paediatr** 1996 Jan;85(1):96–9

Intrathecal morphine for a child with bronchopulmonary dysplasia [letter; comment] Mayhew JF. **Paediatr Anaesth** 1997;7(3):262. Comment on: Paediatr Anaesth 1996;6(5):423–6.

THERAPY

Surfactant therapy prior to the interhospital transport of preterm infants. Costakos D, et al. **Am J Perinatol** 1996 Jul;13(5):309–16

Relief of protracted hypercarbia by high-frequency oscillatory ventilator in a young infant with bronchopulmonary dysplasia. Kuo CY. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan–Feb;38(1):57–60

Room air challenge: prediction for successful weaning of oxygen-dependent infants. Simoes EA, et al. **J Perinatol** 1997 Mar–Apr;17(2):125–9

Neonatal airway colonization with gram-negative bacilli: association with severity of bronchopulmonary dysplasia. Cordero L, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):18–23

Pulmonary effect of inhaled furosemide in ventilated infants with severe bronchopulmonary dysplasia. Kugelman A, et al. **Pediatrics** 1997 Jan;99(1):71–5

Eliminating sleep-associated hypoxemia improves growth in infants with bronchopulmonary dysplasia. Moyer-Mileur LJ, et al. **Pediatrics** 1996 Oct;98(4 Pt 1):779–83

ULTRASONOGRAPHY

Cardiac function in premature infants with bronchopulmonary dysplasia--a 1-year follow up [letter; comment] Trevisanuto D, et al. **Eur J Pediatr** 1996 Jul; 155(7):622. Comment on: Eur J Pediatr 1995 Oct;154(10):853–8.

URINE

On urinary hydroxyproline excretion in preterm infants who later develop bronchopulmonary dysplasia [letter] Roohey T, et al. **Pediatr Pulmonol** 1996 Nov;22(5):328–9

VIROLOGY

Rhinovirus infection associated with serious lower respiratory illness in patients with bronchopulmonary dysplasia. Chidekel AS, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):43–7

BRONCHOPULMONARY SEQUESTRATION

Cystic lung lesions with systemic arterial blood supply: a hybrid of congenital cystic adenomatoid malformation and bronchopulmonary sequestration. Cass DL, et al. **J Pediatr Surg** 1997 Jul;32(7):986–90

Intralobar sequestration: radiologic-pathologic correlation. Frazier AA, et al. **Radiographics** 1997 May–Jun; 17(3):725–45 (80 ref.)

COMPLICATIONS

Hydrops fetalis and pulmonary sequestration [see comments] Evans MG. **J Pediatr Surg** 1996 Jun;31(6):761–4. Comment in: Obstet Gynecol 1997 Aug;90(2):190.

Congenital right diaphragmatic hernias through posterolateral and anterolateral defects associated with extralobar pulmonary sequestration: a case report. Urushihara N, et al. **J Pediatr Surg** 1997 Jan;32(1):101–2

Nonimmune hydrops fetalis, pulmonary sequestration, and favorable neonatal outcome [see comments] da Silva OP, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):681–3. Comment in: Obstet Gynecol 1997 Aug;90(2):190.

[Intralobar pulmonary sequestration associated with asymptomatic aspergillosis: a case report] Kadoyama C, et al. **Kyobu Geka** 1996 Oct;49(11):959–62 (Eng. Abstr.) **(Jpn)**

[Intralobar pulmonary sequestration treated surgically in a patient with sarcoidosis] Sobczyński R, et al. **Pneumonol Alergol Pol** 1997;65(1–2):71–6 (Eng. Abstr.) **(Pol)**

DIAGNOSIS

Imaging approach to the diagnosis of pulmonary sequestration. Hang JD, et al. **Acta Radiol** 1996 Nov; 37(6):883–8

Retroperitoneal pulmonary sequestration: imaging findings, histopathologic correlation, and relationship to cystic adenomatoid malformation. Hernanz-Schulman M, et al. **AJR Am J Roentgenol** 1997 May;168(5):1277–81 (22 ref.)

Extralobar pulmonary sequestration presenting as a mediastinal malignancy. Sippel JM, et al. **Ann Thorac Surg** 1997 Apr;63(4):1169–71

Case report. Demonstration of blood supply to pulmonary sequestration by MR and CT angiography. Cho SY, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):993–5

Bronchopulmonary foregut malformation mimicking neuroblastoma. Fenton LZ, et al. **Pediatr Radiol** 1996 Oct; 26(10):729–30

Pediatric case of the day. Extralobar pulmonary sequestration with cystic adenomatoid features and acute and chronic inflammation. Kim FM, et al. **Radiographics** 1996 May; 16(3):717–9

Pulmonary sequestration. Experience with eight consecutive cases. Tsolakis CC, et al. **Scand Cardiovasc J** 1997; 31(4):229–32

[Massive haemothorax caused by intralobar pulmonary sequestration] Iliás L, et al. **Orv Hetil** 1996 Jun 9; 137(23):1263–5 (25 ref.) (Eng. Abstr.) **(Hun)**

[Case of intralobar pulmonary sequestration with increased serum sialyl Lewis X-i (SLX)] Hakoda S, et al. **Kyobu Geka** 1996 Jul;49(7):587–9 (Eng. Abstr.) **(Jpn)**

[A case of Pryce's type I pulmonary sequestration with hemoptysis and bruit] Tamaki T, et al. **Kyobu Geka** 1996 Nov;49(12):1040–3 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Definitive diagnosis of pulmonary sequestration using magnetic resonance. Description of 3 cases] Lana R, et al. **Arch Bronconeumol** 1997 Feb;33(2):101–3 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

5-Lipoxygenase and endotoxin-induced microvascular albumin exchanges and leucocyte recruitment in guinea-pig lungs. Bureau MF, et al. **Eur J Pharmacol** 1997 Apr 11; 324(1):89–98

Antenatal and postnatal treatment of pleural effusion and extra-lobar pulmonary sequestration. Chan V, et al. **J Perinat Med** 1996;24(4):335–8

ETIOLOGY

Acquired intralobar bronchopulmonary sequestration secondary to occluding endobronchial carcinoid tumor. Eustace S, et al. **Clin Imaging** 1996 Jul–Sep;20(3):178–80

Extralobar sequestration and type II congenital cystic adenomatoid malformation in an infant with congenital diaphragmatic hernia. McManus DT, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug;16(4):637–42

PATHOLOGY

Pulmonary sequestration--a diagnostic pitfall: a case report. Mathew S, et al. **Diagn Cytopathol** 1997 Apr;16(4):353–7

Aspergilloma within intralobar pulmonary sequestration. Park JY, et al. **Korean J Intern Med** 1996 Jun;11(2):183–5

Intra-abdominal pulmonary sequestration: diagnostic difficulties. Morad NA, et al. **Pathology** 1997 May; 29(2):218–20

RADIOGRAPHY

Preoperative evaluation of pulmonary sequestration by helical CT angiography [letter] Amitai M, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1069–70

Pulmonary sequestration spectrum: a new spin with helical CT. Frush DP, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):679–82

CT appearance of esophagobronchial fistula: a clue to lung sequestration [letter] Gomendoza M, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):601–2

Simultaneous discovery of bilateral intralobar and extralobar pulmonary sequestrations. Jeanfaivre T, et al. **Ann Thorac Surg** 1997 Apr;63(4):1171–3

Residents' corner. Answer to case of the month #44. Intralobar pulmonary sequestration in the right lower lobe. Orme RI, et al. **Can Assoc Radiol J** 1997 Feb;48(1):51–3

Spiral CT findings in a case of pulmonary sequestration. Di Maggio EM, et al. **Eur Radiol** 1997;7(5):718–20

General case of the day. Intralobar sequestration. McNeil KM, et al. **Radiographics** 1997 Jan–Feb;17(1):240–2

Combined sequestration, bronchogenic cyst, and dysgenetic lung simulating congenital lobar emphysema. Williams S, et al. **South Med J** 1996 Dec;89(12):1220–2

[Intra-lobar bronchopulmonary sequestration] Merran S. **Presse Med** 1997 Jun 14;26(20):977–8 **(Fre)**

RADIONUCLIDE IMAGING

[201Tl SPECT for suspected lung cancer in a case of a systemic arterial supply to the lung without sequestration] Kinuya S, et al. **Kaku Igaku** 1996 Jun;33(6):629–33 (Eng. Abstr.) **(Jpn)**

SURGERY

Pulmonary sequestration. Experience with eight consecutive cases. Tsolakis CC, et al. **Scand Cardiovasc J** 1997; 31(4):229–32

Before the horse is out of the barn: fetal surgery for hydrops. Bullard KM, et al. **Semin Perinatol** 1995 Dec;19(6):462–73 (84 ref.)

[Case of intralobar pulmonary sequestration with increased serum sialyl Lewis X-i (SLX)] Hakoda S, et al. **Kyobu Geka** 1996 Jul;49(7):587–9 (Eng. Abstr.) **(Jpn)**

[A case of systemic arterial supply to the normal left basal segments with no symptoms] Nakao M, et al. **Kyobu Geka** 1997 Feb;50(2):166–71 (Eng. Abstr.) **(Jpn)**

[Intralobar pulmonary sequestration treated surgically in a patient with sarcoidosis] Sobczyński R, et al. **Pneumonol Alergol Pol** 1997;65(1–2):71–6 (Eng. Abstr.) **(Pol)**

ULTRASONOGRAPHY

Special imaging casebook. Extralobar sequestration with type II cystic adenomatoid malformation. Herman TE, et al. **J Perinatol** 1996 Jul–Aug;16(4):315–6 (8 ref.)

Prenatal ultrasound characterization of the suprarenal mass: distinction between neuroblastoma and subdiaphragmatic extralobar pulmonary sequestration. Curtis MR, et al. **J Ultrasound Med** 1997 Feb;16(2):75–83 (69 ref.)

Color and duplex Doppler sonographic investigation of in utero spontaneous regression of pulmonary sequestration. Smulian JC, et al. **J Ultrasound Med** 1996 Nov; 15(11):789–92

Infradiaphragmatic extralobar pulmonary sequestration masquerading as an intra-abdominal, suprarenal mass. Gross E, et al. **Pediatr Surg Int** 1997 Sep;12(7):529–31

BRONCHOSCOPY

see related

CATHETERIZATION, PERIPHERAL

Virtual bronchoscopy with perfluoronated hydrocarbon enhancement. Milestone BN, et al. **Acad Radiol** 1997 Aug; 4(8):583–6

Bronchoscopy in airway management. Kuylenstierna R. **Acta Anaesthesiol Scand Suppl** 1997;110:68

Bronchoscopy in the diagnosis and therapy of chest injuries. Pardon R, et al. **Acta Med Croatica** 1997;51(1):29–36

Flexible fibre-optic bronchoscopy in the management of lung complications in cystic fibrosis. Connett GJ, et al. **Acta Paediatr** 1996 Jun;85(6):675–8

Cocaine balloon aspiration: successful removal with bronchoscopy. Cobaugh DJ, et al. **Am J Emerg Med** 1997 Sep;15(5):544–6

Yield of computed tomography and bronchoscopy for the diagnosis of Mycobacterium avium complex pulmonary disease. Tanaka E, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2041–6

Intraoperative bronchoscopy during thoracotomy through an LMA in an infant [letter] Moloney G, et al. **Anaesth Intensive Care** 1997 Jun;25(3):310–1

Bronchoscopic insufflation in lobar atelectasis [letter; comment] Ntoumenopoulos G. **Anaesth Intensive Care** 1996 Dec;24(6):730–1. Comment on: Anaesth Intensive Care 1995 Apr;23(2):175–7.

Tumour fragment in the airway detected by intraoperative fibreoptic examination. Sakura S, et al. **Anaesth Intensive Care** 1996 Apr;24(2):265–6

Retrograde fiberoptic intubation. Rosenblatt WH, et al. **Anesth Analg** 1997 May;84(5):1142–4

Capnography during fiberoptic bronchoscopy to verify tracheal intubation. Wolf LH, et al. **Anesth Analg** 1997 Sep; 85(3):701–3

Bronchoscopy in immunocompromised host with pulmonary infiltrates. Hsu AA, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):797–803

Excision of bronchogenic cysts in children using an ultrathin fibreoptic bronchoscope. Monrigal JP, et al. **Can J Anaesth** 1996 Jul;43(7):694–6

Experience with flexible fibreoptic bronchoscopy. Jayasundera C. **Ceylon Med J** 1996 Dec;41(4):131–4

Fiberoptic bronchoscopy after recent acute myocardial infarction: stress for the heart? [letter; comment] Bein T, et al. **Chest** 1997 Jul;112(1):295–6. Comment on: Chest 1996 Sep;110(3):825–8.

Endoscopic treatment of malignant airway obstructions in 2,008 patients [published erratum of serious dosage error appears in Chest 1997 May;111(5):1476] Cavaliere S, et al. **Chest** 1996 Dec;110(6):1536–42

Usefulness of collecting routine cytologic specimens during fiberoptic bronchoscopy for endoscopically visible and nonvisible lung carcinoma [letter; comment] Chau CH, et al. **Chest** 1997 Feb;111(2):522–3. Comment on: Chest 1996 Feb;109(2):451–6.

Detecting lung cancer as a cause of hemoptysis in patients with a normal chest radiograph: bronchoscopy vs CT [see comments] Colice GL. **Chest** 1997 Apr;111(4):877–84. Comment in: Chest 1997 Apr;111(4):842–3.

Therapeutic rigid bronchoscopy allows level of care changes in patients with acute respiratory failure from central airways obstruction. Colt HG, et al. **Chest** 1997 Jul; 112(1):202–6

Bronchoscopic evaluation of pulmonary infiltrates following bone marrow transplantation. Dunagan DP, et al. **Chest** 1997 Jan;111(1):135–41

Tracheobronchial stents, stunts, and medical ethics revisited [editorial; comment] Unger M. **Chest** 1996 Nov;

110(5):1133–5. Comment on: Chest 1996 Nov;110(5):1155–60. Comment on: Chest 1996 Nov;110(5):1161–8.

Prophylaxis post-transplant. The role of monitoring surveillance bronchoscopy and antimicrobials. Corris PA. **Clin Chest Med** 1997 Jun;18(2):311–8 (38 ref.)

Selected mimics of malignancy in sputum and bronchoscopic cytology specimens. Naryshkin S, et al. **Diagn Cytopathol** 1995 Dec;13(5):443–7 (12 ref.)

Central airway stenoses: preliminary results of spiral-CT-generated virtual bronchoscopy simulations in 29 patients. Ferretti GR, et al. **Eur Radiol** 1997;7(6):854–9

Fluoroscopic transbronchial fine needle aspiration for diagnosis of peripheral pulmonary nodules. Gupta D, et al. **Indian J Chest Dis Allied Sci** 1996 Jul-Sep;38(3):163–7

Percutaneous dilatational tracheostomy [letter; comment] Bion JF. **Intensive Care Med** 1996 Aug;22(8):838. Comment on: Intensive Care Med 1994 Aug;20(7):466–7. Comment on: Intensive Care Med 1994 Aug;20(7):476–9.

Endoscopic detection of submucosal guidewire placement during percutaneous dilatational tracheostomy [letter] Goldrick PB, et al. **Intensive Care Med** 1996 Nov; 22(11):1276

A prospective study of bronchoscopy for endotracheobronchial tuberculosis. Oka M, et al. **Intern Med** 1996 Sep;35(9):698–703

Bronchoscopy as a research tool for the study of asthma pathogenesis and effects of antiasthma drugs. Djukanović R. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 2):S41–5; discussion S64–6 (35 ref.)

Early bronchoscopic diagnosis of concomitant tuberculosis and Pneumocystis carinii pneumonia in patients with human immunodeficiency virus infection. Albino JA, et al. **J Assoc Acad Minor Phys** 1996;7(4):99–103

Rigid bronchoscopy and jet ventilation in an extremely low birthweight infant. Fan PC, et al. **J Formos Med Assoc** 1996 Dec;95(12):937–9

Computer-assisted bronchoscopy: aims and research perspectives. Bricault I, et al. **J Image Guid Surg** 1995; 1(4):217–25

Endoscopic scoring system in patients with allergic rhinitis. Bavbek S, et al. **J Investig Allergol Clin Immunol** 1997 May-Jun;7(3):175–8

Value of rigid bronchoscopy and cytodiagnosis of bronchial washings in detecting bronchial carcinoma in the presence of a carcinoma of the upper aerodigestive tract. Dhooge I, et al. **J Otolaryngol** 1996 Aug;25(4):219–22

Percutaneous dilatational tracheostomy has been advocated by many to be the procedure of choice for a patient requiring a tracheostomy [letter; comment] Barba CA. **J Trauma** 1997 Apr;42(4):756–8. Comment on: J Trauma 1996 Aug;41(2):238–43; discussion 243–4. Comment on: J Trauma 1996 Aug;41(2):245–8; discussion 248–50.

Laser bronchoscopy with transglottic/supraglottic ventilation to relieve dysphonia and subglottic obstruction. Gallivan GJ, et al. **J Voice** 1997 Mar;11(1):115–23

Transmission of a highly drug-resistant strain (strain W1) of Mycobacterium tuberculosis. Community outbreak and nosocomial transmission via a contaminated bronchoscope [see comments] Agerton T, et al. **JAMA** 1997 Oct 1; 278(13):1073–7. Comment in: JAMA 1997 Oct 1;278(13):1111.

Transmission of Mycobacterium tuberculosis by a fiberoptic bronchoscope. Identification by DNA fingerprinting [see comments] Michele TM, et al. **JAMA** 1997 Oct 1; 278(13):1093–5. Comment in: JAMA 1997 Oct 1;278(13):1111.

Tuberculosis infection after bronchoscopy [editorial; comment] Wenzel RP, et al. **JAMA** 1997 Oct 1; 278(13):1111. Comment on: JAMA 1997 Oct 1;278(13):1073–7. Comment on: JAMA 1997 Oct 1;278(13):1093–5.

Introduction to different approaches to intrabronchial treatment. Bolliger CT. **Monaldi Arch Chest Dis** 1996 Aug; 51(4):316–24 (63 ref.)

Surveillance transbronchial biopsy in the diagnosis of acute lung rejection in heart and lung and lung transplant recipients. Vitulo P, et al. **Monaldi Arch Chest Dis** 1996 Feb;51(1):12–5

Oxygen enrichment of entrained room air during Venturi jet ventilation of children undergoing bronchoscopy. Baraka A. **Paediatr Anaesth** 1996;6(5):383–5

Oral and nasotracheal light wand guided intubation after failed fibreoptic bronchoscopy. Rehman MA, et al. **Paediatr Anaesth** 1997;7(4):349–51

Yield from flexible bronchoscopy in children. Godfrey S, et al. **Pediatr Pulmonol** 1997 Apr;23(4):261–9

Bronchial foreign body: should bronchoscopy be performed in all patients with a choking crisis? Barrios Fontoba JE, et al. **Pediatr Surg Int** 1997 Feb;12(2-3):118–20

50 endobronchial tuberculosis cases based on bronchoscopic diagnosis. Altin S, et al. **Respiration** 1997;64(2):162–4

Computer-tomographically guided fiberbronchoscopic transbronchial biopsy of small pulmonary lesions: a feasibility study. Wagner U, et al. **Respiration** 1996; 63(3):181–6

[Tracheobronchial foreign body in children. Is anamnesis alone enough to indicate tracheobronchoscopy?] Caversaccio MD, et al. **HNO** 1996 Aug;44(8):440–4 (Eng. Abstr.) **(Ger)**

[Damage to sense of smell and taste following xylocaine administration? Process before the expert evaluation committee for medical malpractice of the North Rhine Physicians Organization in 1995 (Az. 91/588)] Wienke A. **Laryngorhinootologie** 1996 Feb;75(2):109–10 **(Ger)**

[Invasive pneumonia diagnosis in community-acquired pneumonia (see comments)] Dalhoff K, et al. **Pneumologie** 1996 Oct;50(10):687–92 (46 ref.). Comment in: Pneumologie 1997 Feb;51(2):90–2. **(Ger)**

[Complicated community-acquired pneumonias do not need invasive bronchoscopic pathogen diagnosis in routine management (letter; comment)] Ewig S. **Pneumologie** 1997 Feb;51(2):90–2. Comment on: Pneumologie 1996 Oct;50(10):687–92. **(Ger)**

[Pediatric flexible bronchoscopy] Bibi H, et al. **Harefuah** 1997 Mar 16;132(6):399–401, 447 (Eng. Abstr.) **(Heb)**

[Pediatric fiberoptic bronchoscopy via the laryngeal mask airway] Fukushima Y, et al. **Masui** 1996 Dec; 45(12):1519–24 (Eng. Abstr.) **(Jpn)**

[Bronchoscopy in the diagnosis of diffuse pulmonary infiltrates, and corticosteroid treatment in patients with acute respiratory failure] Katakami N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:145–54 (Eng. Abstr.) **(Jpn)**

[Removal of bronchial foreign bodies by suction with a bronchoscope] Mita Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr;35(4):442–6 (Eng. Abstr.) **(Jpn)**

[Use of a bronchoscope for thoracoscopic observation and diagnosis of pleural plaques] Mizuno K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr;35(4):471–6 (Eng. Abstr.) **(Jpn)**

[Tracheobronchopathia osteoplastica with "rock garden" findings on bronchoscopy] Yokoyama T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr; 35(4):477–80 (Eng. Abstr.) **(Jpn)**

[Lung cancer: progress in diagnosis and treatment. I. Diagnosis and physiopathology: 3. Diagnosis related to bronchoscopy] Kusunoki Y. **Nippon Naika Gakkai Zasshi** 1997 Jan 10;86(1):15–9 **(Jpn)**

[Bronchoscopic brachytherapy: development of bronchoscopic ultrasonography and brachytherapy for early stage lung cancer of hilar type] Ono R. **Nippon Rinsho** 1996 May;54(5):1337–42 (Eng. Abstr.) **(Jpn)**

[Endoscopic diagnosis of tuberculosis and other granulomatous diseases of respiratory organs: advances and prospects] Filippov VP, et al. **Probl Tuberk** 1996;(6):44–7 (Eng. Abstr.) **(Rus)**

[Bronchoscopy in primary pulmonary tuberculosis in children] Raos M, et al. **Lijec Vjesn** 1996 Nov-Dec; 118(11-12):277–9 (Eng. Abstr.) **(Scr)**

[Mediastinal non-Hodgkin's lymphoma: atypical presentation diagnosed with bronchoscopy] García-Pardo G, et al. **Arch Bronconeumol** 1997 Mar;33(3):154–6 (Eng. Abstr.) **(Spa)**

[Pneumonia diagnosed with bronchoscopy in HIV-positive patients] Cruz Villuendas M, et al. **Enferm Infecc Microbiol Clin** 1996 May;14(5):314–6 (Eng. Abstr.) **(Spa)**

[Migration of an aspired piece of plastics. ECMO in respiratory failure optimizes bronchoscopy] Lindén V, et al. **Lakartidningen** 1997 May 7;94(19):1820–2 **(Swe)**

ADVERSE EFFECTS

Cytokines derived from alveolar macrophages induce fever after bronchoscopy and bronchoalveolar lavage. Krause A, et al. **Am J Respir Crit Care Med** 1997 May; 155(5):1793–7

Cardiovascular consequences of fibreoptic bronchoscopy. Davies L, et al. **Eur Respir J** 1997 Mar;10(3):695–8

A pseudo-outbreak of Mycobacterium chelonae infections related to bronchoscopy. Cox R, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):136–7

Internal carotid artery dissection following bronchoscopy [letter] Mercier B, et al. **J Neurol** 1996 Apr;243(4):368–9

A case of rapidly expanding tuberculous lung cavity after bronchoscopy. Tsang KW, et al. **Respir Med** 1997 Jul; 91(6):377–9

Safety of fibreoptic bronchoscopy in asthmatic and control subjects and effect on asthma control over two weeks. Humbert M, et al. **Thorax** 1996 Jul;51(7):664–9

[Endoscopic contamination with Mycobacterium tuberculosis] Izbicki G, et al. **Schweiz Med Wochenschr** 1997 Feb 1;127(5):182–6 (Eng. Abstr.) **(Ger)**

[A case of secondary misplacement of the selective bronchial tube in thoraco-pulmonary surgery] Cardaci SB, et al. **Minerva Anestesiol** 1995 Oct;61(10):421–4 (Eng. Abstr.) **(Ita)**

ECONOMICS

[Costs and time savings by dilatation tracheotomy with bronchoscopic control] Muhl E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:353–5 (Eng. Abstr.) **(Ger)**

HISTORY

[Gustav Killian Memorial Lecture. 100 years bronchoscopy—early history and subsequent development] Breisinger A, et al. **Pneumologie** 1997 Jul;51(7):611–9 **(Ger)**

[Centenary of the invention of bronchoscopy] Strausz J. **Orv Hetil** 1997 Jun 1;138(22):1419–21 **(Hun)**

INSTRUMENTATION

The effect of introducing fibreoptic bronchoscopes on gas flow in laryngeal masks and tracheal tubes. Brimacombe J, et al. **Anaesthesia** 1996 Oct;51(10):923–8

Percutaneous tracheostomy; an expensive complication [letter] Juste RN, et al. **Anaesthesia** 1997 Jul;52(7):711–2

An aid to learning to use the fiberoptic bronchoscope for intubation [letter] Colley PS, et al. **Anesth Analg** 1997 Aug; 85(2):464–5

Bronchoscopy via a redesigned Combitube in the esophageal position. A clinical evaluation. Krafft P, et al. **Anesthesiology** 1997 May;86(5):1041–5

Measurement of bronchodilatation using a superfine fibreoptic bronchoscope. Otomo N, et al. **Br J Anaesth** 1997 May;78(5):583–5

Development of an ultrathin fiberscope with a built-in channel for bronchoscopy in infants. Hasegawa S, et al. **Chest** 1996 Dec;110(6):1543–6

Use of the paediatric bronchoscope, flexible and rigid, in 51 European centres. Barbato A, et al. **Eur Respir J** 1997 Aug; 10(8):1761–6

Nosocomial infections and pseudoinfections from contaminated bronchoscopes: two-year follow up using molecular markers. Blanc DS, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):134–6

Utility of Wang transbronchial needle biopsy in sarcoidosis. Leonard C, et al. **Ir J Med Sci** 1997 Jan-Mar;166(1):41–3

Amplification of residual DNA sequences in sterile bronchoscopes leading to false-positive PCR results. Kaul K, et al. **J Clin Microbiol** 1996 Aug;34(8):1949–51

Advances and usefulness of ultra-thin bronchofiberscopes. Tanaka M. **Keio J Med** 1996 Dec;45(4):296–300 (16 ref.)

Use of sheet color filters for video-endoscopic observation during intraluminal photodynamic therapy. Marijnissen JP, et al. **Lasers Surg Med** 1996;18(1):96–9

Bronchoscopic evaluation of pediatric airway pathology. McQueen CT, et al. **N C Med J** 1997 May-Jun;58(3):210–3

Airtight pediatric fiberoptic bronchoscopy [letter] Duncan AJ, et al. **Pediatr Pulmonol** 1996 Feb;21(2):143

Bronchoalveolar lavage: don't forget the size of the bronchoscope [letter; comment] Zach MS. **Pediatr Pulmonol** 1996 Nov;22(5):329–31. Comment on: Pediatr Pulmonol 1996 Mar;21(3):184–8.

Fibreoptic bronchoscopy for diagnosis of isolated tuberculous mediastinal lymphadenopathy [letter; comment] Raffy O, et al. **Thorax** 1996 Sep;51(9):967–8. Comment on: Thorax 1996 Jan;51(1):87–9.

Bronchoscopic foreign body removal using a cystoscope rod lens. Hodges AM, et al. **Trop Doct** 1997 Apr;27(2):113

[Fibroscopic bronchoscopy in intensive care] Marquette CH, et al. **Rev Mal Respir** 1997 Apr;14(2):101–11 (41 ref.) (Eng. Abstr.) **(Fre)**

[Efficacy of bronchoscopic Nd:YAG laser therapy for laryngotracheal stenoses after long-term intubation] Lengas A, et al. **Chirurg** 1996 Jul;67(7):730–3 (Eng. Abstr.) **(Ger)**

[Endoscopy of the respiratory tract in childhood] Nicolai T. **Fortschr Med** 1996 Sep 20;114(26):322–6 (17 ref.) (Eng. Abstr.) **(Ger)**

[Endoscopic placement of an intratracheal oxygen catheter—description of a new method] Wenzel M, et al. **Med Klin** 1997 Apr 28;92 Suppl 1:111–3 (Eng. Abstr.) **(Ger)**

[Flexible contra rigid bronchoscopy for implantation of tracheobronchial prostheses (stents). Pro flexible bronchoscopy] Becker HD. **Pneumologie** 1997 Mar; 51(3):258–61 **(Ger)**

[Flexible contra rigid bronchoscopy for implantation of tracheobronchial prostheses (stents). Pro rigid bronchoscopy] Freitag L. **Pneumologie** 1997 Mar; 51(3):255–7 **(Ger)**

[Peracetic acid: alternative to the sterilization of bronchofibroscopes] Villate JI, et al. **Arch Bronconeumol** 1997 Mar;33(3):133–5 (Eng. Abstr.) **(Spa)**

METHODS

Navigational aids for real-time virtual bronchoscopy. Summers RM. **AJR Am J Roentgenol** 1997 May; 168(5):1165–70

Quantitative videobronchoscopy: a new technique to assess airway caliber [published erratum appears in Am J Respir Crit Care Med 1997 Mar;155(3):1171] Forkert L, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1794–803

Indications for flexible versus rigid bronchoscopy in children with suspected foreign-body aspiration. Martinot A, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1676–9

Therapeutic fibreoptic bronchoscopy in critically ill patients via laryngeal mask. Llagunes J, et al. **Anaesth Intensive Care** 1996 Jun;24(3):396–7

The laryngeal mask airway: a new standard for airway evaluation in thoracic surgery. Ferson DZ, et al. **Ann Thorac Surg** 1997 Mar;63(3):768–72

Pediatric flexible fiberoptic bronchoscopy through the laryngeal mask airway. Tunkel DE, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec;122(12):1364–7

A placebo controlled study of flumazenil in bronchoscopic procedures. Williamson BH, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):77–83

BRONCHOSCOPY

Airway anaesthesia during fibreoptic endoscopy [letter] Jones M, et al. **Can J Anaesth** 1997 Jul;44(7):785

Sedation in fiberoptic bronchoscopy [letter; comment] Gompertz S, et al. **Chest** 1997 Apr;111(4):1142. Comment on: Chest 1996 May;109(5):1195–8.

Safety and yield of transbronchial biopsy in mechanically ventilated patients. O'Brien JD, et al. **Crit Care Med** 1997 Mar;25(3):440–6

Diagnostic value of direct examination of protected specimen brush samples in nosocomial pneumonia. Mertens AH, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):807–10

Value of fibreoptic bronchoscopy in the diagnosis of complicated pulmonary unilocular cystic hydatidosis. Saygi A, et al. **Eur Respir J** 1997 Apr;10(4):811–4

Temporary main bronchial occlusion under bronchoscopic control in the evaluation of candidates for pneumonectomy. Melloni G, et al. **Int Surg** 1997 Jan–Mar;82(1):34–7

Endoscopic placement of a tracheal oxygen catheter: a new technique. Schönhofer B, et al. **Intensive Care Med** 1997 Apr;23(4):445–9

Laryngeal mask airway for therapeutic fiberoptic bronchoscopic procedures. Birmingham B, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):519–20

Diagnostic and therapeutic endoscopy through the gastrostomy site. Ramirez FC, et al. **J Clin Gastroenterol** 1997 Mar;24(2):113–5

Neonatal and paediatric fibre-optic laryngoscopy and bronchoscopy using the laryngeal mask airway. Hinton AE, et al. **J Laryngol Otol** 1997 Apr;111(4):349–53

Bronchoscopic evaluation of pediatric airway pathology. McQueen CT, et al. **N C Med J** 1997 May–Jun;58(3):210–3

Jet ventilation via the suction port during fibreoptic bronchoscopy in a child [letter] Baraka A. **Paediatr Anaesth** 1997;7(1):87–8

Bronchoscopic airway evaluation facilitated by the laryngeal mask airway in pediatric patients [published erratum appears in Pediatr Pulmonol 1996 Aug;22(2):140] Badr A, et al. **Pediatr Pulmonol** 1996 Jan;21(1):57–61

A new method for removal of metallic–ferromagnetic foreign bodies from the tracheobronchial tree. Mayr J, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):461–2

Tracheal obstruction in experimental diaphragmatic hernia: an endoscopic approach in the fetal lamb. Benachi A, et al. **Prenat Diagn** 1997 Jul;17(7):629–34

Sequential oesophago–bronchoscopy. Procter DS. **S Afr J Surg** 1997 Feb;35(1):26–8

Diagnosis of pulmonary infections in immunocompromised patients by fiber–optic bronchoscopy with bronchoalveolar lavage and serology. Eriksson BM, et al. **Scand J Infect Dis** 1996;28(5):479–85

[Fibroscopic bronchoscopy in intensive care] Marquette CH, et al. **Rev Mal Respir** 1997 Apr;14(2):101–11 (41 ref.) (Eng. Abstr.) **(Fre)**

[Fiberoptic bronchoscopy in intensive care units] Kiss K, et al. **Orv Hetil** 1996 Aug 4;137(31):1689–91 (Eng. Abstr.) **(Hun)**

[Treatment via laser of airway obstructions] Cicconetti F, et al. **G Chir** 1996 Nov–Dec;17(11–12):614–9 (Eng. Abstr.) **(Ita)**

[Difficulties in bronchoscopic diagnosis of the foreign bodies located in lower respiratory tract in children] Pogorzelski A, et al. **Otolaryngol Pol** 1996;50(2):119–24 (Eng. Abstr.) **(Pol)**

[Bronchoscopic cryotherapy] Kozielski J, et al. **Pneumonol Alergol Pol** 1997;65(5–6):411–6 (20 ref.) **(Pol)**

[The effect of fiberoptic bronchoscopy and bronchoalveolar lavage (BAL) on results of spirometric measurements] Michnar M, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 1:97–103 (Eng. Abstr.) **(Pol)**

[Bronchoscopy in inhalation burns] Strekalovskii VP, et al. **Khirurgiia (Mosk)** 1997;(1):9–12 (Eng. Abstr.) **(Rus)**

[Diagnosis of tuberculosis of the large bronchi by different bronchoscopies] Ismailov SS. **Probl Tuberk** 1997;(3):32–4 (Eng. Abstr.) **(Rus)**

[A bronchoscopic aid in the therapy of bronchial asthma patients with a severe course] Makolkin VI, et al. **Ter Arkh** 1996;68(4):12–5 **(Rus)**

[Protected bacteriologic brushing in patients with severe copd] Zalacain R, et al. **Arch Bronconeumol** 1997 Jan; 33(1):16–9 (Eng. Abstr.) **(Spa)**

[The laryngeal mask in fiber optic bronchoscopy in pediatric therapy] García–Górriz M, et al. **Rev Esp Anestesiol Reanim** 1997 May;44(5):208–9 **(Spa)**

[Fiberoptic bronchoscopy through a laryngeal mask (letter)] Pertusa V, et al. **Rev Esp Anestesiol Reanim** 1997 May; 44(5):207–8 **(Spa)**

STANDARDS

[Minimal requirements for a respiratory endoscopy unit. Area of Diagnostic and Therapeutic Techniques of the Spanish Society of Pneumology and Thoracic Surgery] Canalis E, et al. **Arch Bronconeumol** 1997 Feb;33(2):92–8 **(Spa)**

UTILIZATION

Surveillance bronchoscopy in lung transplant recipients. Kukafka DS, et al. **Chest** 1997 Feb;111(2):377–81

Use of the paediatric bronchoscope, flexible and rigid, in 51 European centres. Barbato A, et al. **Eur Respir J** 1997 Aug; 10(8):1761–6

[Tracheal intubation using bronchofiberoscopy (experience of a hospital service)] Cámara Angulo F, et al. **Arch Bronconeumol** 1996 Oct;32(8):379–83 (Eng. Abstr.) **(Spa)**

BRONCHOSPASM see **BRONCHIAL SPASM**

BRONCHOSPASM, EXERCISE-INDUCED see **ASTHMA, EXERCISE-INDUCED**

BROWN FAT

Activation of the nuclear receptor peroxisome proliferator–activated receptor gamma promotes brown adipocyte differentiation. Tai TAC, et al. **J Biol Chem** 1996 Nov 22;271(47):29909–14

ANATOMY & HISTOLOGY

Chemical shift imaging at 4.7 tesla of brown adipose tissue. Sbarbati A, et al. **J Lipid Res** 1997 Feb;38(2):343–7

CHEMISTRY

Mutagenesis of the uncoupling protein of brown adipose tissue. Neutralization Of E190 largely abolishes pH control of nucleotide binding. Echtay KS, et al. **Biochemistry** 1997 Jul 8;36(27):8253–60

Identification of the pH sensor for nucleotide binding in the uncoupling protein from brown adipose tissue. Winkler E, et al. **Biochemistry** 1997 Jan 7;36(1):148–55

Expressed alpha 1–adrenoceptors in adult rat brown adipocytes are primarily of alpha 1A subtype. Costain WJ, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):234–40

Immunohistochemical localization of leptin and uncoupling protein in white and brown adipose tissue. Cinti S, et al. **Endocrinology** 1997 Feb;138(2):797–804

Immunohistochemical detection of the ob gene product (leptin) in rat white and brown adipocytes. Tsuruo Y, et al. **Horm Metab Res** 1996 Dec;28(12):753–5

A new uncoupling protein: a potential component of the human body weight regulation system. Wolf G. **Nutr Rev** 1997 May;55(5):178–9 (8 ref.)

CYTOLOGY

Adrenergic regulation of brown adipocyte differentiation. Cannon B, et al. **Biochem Soc Trans** 1996 May;24(2):407–12 (29 ref.)

Physiological approach to maturation of brown adipocytes in primary cell culture. Encke D, et al. **Biochim Biophys Acta** 1997 Jul 24;1357(3):339–47

Functional differentiation of white and brown adipocytes. Klaus S. **Bioessays** 1997 Mar;19(3):215–23 (72 ref.)

Alterations in the insulin signaling pathway induced by immortalization and H–ras transformation of brown adipocytes. Valverde AM, et al. **Endocrinology** 1997 Aug; 138(8):3195–206

Toxoplasma gondii: metabolism of intracellular tachyzoites is affected by host cell ATP production. Sorensen SW, et al. **Exp Parasitol** 1997 Jan;85(1):101–4

Erythrophagocytosis by brown adipocytes of rat interscapular tissue. Radovanovic J, et al. **Histol Histopathol** 1996 Jul;11(3):573–81

Purinergic receptor stimulation increases membrane trafficking in brown adipocytes. Pappone PA, et al. **J Gen Physiol** 1996 Nov;108(5):393–404

Phosphatidylinositol 3–kinase is a requirement for insulin–like growth factor I–induced differentiation, but not for mitogenesis, in fetal brown adipocytes. Valverde AM, et al. **Mol Endocrinol** 1997 May;11(5):595–607

DRUG EFFECTS

Hypertrophy of brown adipocytes in brown and white adipose tissues and reversal of diet–induced obesity in rats treated with a beta3–adrenoceptor agonist. Ghorbani M, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):121–31

Zinc attenuation of GDP binding to brown adipocytes mitochondria in genetically obese (ob/ob) mice. Chen MD, et al. **Biol Trace Elem Res** 1997 May;57(2):139–45

Retinoic acid modulates retinoid X receptor alpha and retinoic acid receptor alpha levels of cultured brown adipocytes. Bonet ML, et al. **FEBS Lett** 1997 Apr 7; 406(1–2):196–200

The effect of neuropeptides kyotorphin and neokyotorphin on proliferation of cultured brown preadipocytes. Bronnikov G, et al. **FEBS Lett** 1997 Apr 21;407(1):73–7

Effect of chronic intracerebroventricular infusion of insulin on brown adipose tissue activity in fed and fasted rats. Müller C, et al. **Int J Obes Relat Metab Disord** 1997 Jul; 21(7):562–6

Effect of maternal glucose infusion on brown adipose tissue and liver development in the neonatal lamb. Clarke L, et al. **Reprod Fertil Dev** 1996;8(7):1045–54

Decreased liver type I 5'–deiodinase and increased brown adipose tissue type II 5'–deiodinase activity in 2,3,7,8–tetrachlorobibenzo–p–dioxin (TCDD)–treated Long–Evans rats. Raasmaja A, et al. **Toxicology** 1996 Dec 18;114(3):199–205

EMBRYOLOGY

Maternal manipulation of brown adipose tissue and liver development in the ovine fetus during late gestation. Clarke L, et al. **Br J Nutr** 1997 Jun;77(6):871–83

ENZYMOLOGY

Effects of triiodothyronine administration on the adenylyl cyclase system in brown adipose tissue of rat. Adli H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E247–53

Effect of hypothyroidism on adenylyl cyclase activity and subtype gene expression in brown adipose tissue. Chaudhry A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R762–7

Perinatal expression of adenylyl cyclase subtypes in rat brown adipose tissue. Chaudhry A, et al. **Am J Physiol** 1996 Apr; 270(4 Pt 2):R755–60

T3 potentiates the adrenergic stimulation of type II 5'–deiodinase activity in cultured rat brown adipocytes. Hernández A, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E15–23

Characterization of renin activity in brown adipose tissue. Shenoy U, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C989–99

Augmentation of tumor necrosis factor–alpha–induced suppression of lipoprotein lipase by nitric oxide donors in cultured brown adipocytes. Uchida Y, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:369–72

ATP synthase subunit c expression: physiological regulation of the P1 and P2 genes. Andersson U, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):379–85

Contrasting adrenergic effects on lipoprotein lipase gene expression in the brown adipose tissue of intact mice and in cultured brown adipocytes from mice. Kuusela P, et al. **Biochim Biophys Acta** 1997 Apr 21;1345(3):327–37

Activities of antioxidant enzymes and monoamine oxidase–A in the rat interscapular brown adipose tissue: effects of insulin and 6–hydroxydopamine. Davidović V, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):181–6

Inducible nitric oxide synthase in rat brown adipocytes: implications for blood flow to brown adipose tissue. Nisoli E, et al. **Endocrinology** 1997 Feb;138(2):676–82

Activation of mitogen–activated protein kinase by norepinephrine in brown adipocytes from rats. Shimizu Y, et al. **Endocrinology** 1997 Jan;138(1):248–53

Alcohol dehydrogenase activity in mouse brown adipose tissue. Muralidhara DV, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):167–70

Multiple regulatory steps are involved in the control of lipoprotein lipase activity in brown adipose tissue. Klingenspor M, et al. **J Lipid Res** 1996 Aug;37(8):1685–95

Effects of acute and chronic inhibition of nitric oxide synthase on brown adipose tissue thermogenesis. Saha SK, et al. **Jpn J Physiol** 1996 Oct;46(5):375–82

Effects of age on beta adrenergic subtype activation of adenylyl cyclase in brown adipose tissue. Scarpace PJ, et al. **Proc Soc Exp Biol Med** 1996 Dec;213(3):262–7

Nutritional regulation of the activities of lipogenic enzymes of rat liver and brown adipose tissue. Boll M, et al. **Z Naturforsch [C]** 1996 Nov–Dec;51(11–12):859–69

GROWTH & DEVELOPMENT

Effect of maternal glucose infusion on brown adipose tissue and liver development in the neonatal lamb. Clarke L, et al. **Reprod Fertil Dev** 1996;8(7):1045–54

Brown adipose tissue and liver development during early postnatal life in hand–reared and ewe–reared lambs. Darby CJ, et al. **Reprod Fertil Dev** 1996;8(1):137–45

Effect of fetal thyroidectomy on brown adipose tissue and thermoregulation in newborn lambs. Schermer SJ, et al. **Reprod Fertil Dev** 1996;8(6):995–1002

INNERVATION

Effect of galanin and enterostatin on sympathetic nerve activity to interscapular brown adipose tissue. Nagase H, et al. **Brain Res** 1996 Feb 12;709(1):44–50

Selective up–regulation of alpha1a–adrenergic receptor protein and mRNA in brown adipose tissue by neural and beta3–adrenergic stimulation. Granneman JG, et al. **Mol Pharmacol** 1997 Apr;51(4):644–50

EEG arousal, sympathetic activity, and brown adipose tissue thermogenesis after conditioned taste aversion. Amaro S, et al. **Physiol Behav** 1996 Jul;60(1):71–5

Sympathetic outflow to interscapular brown adipose tissue in cold acclimated mice. Kirov SA, et al. **Physiol Behav** 1996 Feb;59(2):231–5

METABOLISM

Beta 3–adrenoceptor in guinea pig brown and white adipocytes: low expression and lack of function. Atgié C, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1729–38

Dissociation of hypothalamic NPY from BAT uncoupling protein mRNA in rats exposed to 24 h thermoneutrality. Bing C, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R111–7

Transient upregulation of IGF–I gene expression in brown adipose tissue of cold–exposed rats. Duchamp C, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E453–60

Effects of P2 purinergic receptor stimulation in brown adipocytes. Lee SC, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C679–86

Analysis of the cellular mechanism for halothane inhibition of brown adipose tissue thermogenesis. Ohlson KB, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:718–21

Steady–state kinetics of reduction of coenzyme Q analogs by glycerol–3–phosphate dehydrogenase in brown adipose tissue mitochondria. Rauchová H, et al.

Arch Biochem Biophys 1997 Aug 1;344(1):235–41
UCP3: an uncoupling protein homologue expressed preferentially and abundantly in skeletal muscle and brown adipose tissue. Vidal-Puig A, et al.
Biochem Biophys Res Commun 1997 Jun 9;235(1):79–82
Adrenergic stimulation of lipoprotein lipase gene expression in rat brown adipocytes differentiated in culture: mediation via beta3- and alpha1-adrenergic receptors. Kuusela P, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):759–67
Co-ordinate decrease in the expression of the mitochondrial genome and nuclear genes for mitochondrial proteins in the lactation-induced mitochondrial hypotrophy of rat brown fat. Martin I, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):749–52
Changes induced by fasting and dietetic obesity in thermogenic parameters of rat brown adipose tissue mitochondrial subpopulations. Matamala JC, et al.
Biochem J 1996 Oct 15;319 (Pt 2):529–34
Insulin-like growth factor I and insulin induce adipogenic-related gene expression in fetal brown adipocyte primary cultures. Teruel T, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):627–32
Metallothionein gene expression in brown adipose tissue. Beattie JH, et al. **Biochem Soc Trans** 1996 May;24(2):159S
Chloride channel properties of the uncoupling protein from brown adipose tissue mitochondria: a patch-clamp study. Huang SG, et al. **Biochemistry** 1996 Dec 24; 35(51):16806–14
Respective degree of expression of beta 1–, beta 2– and beta 3–adrenoceptors in human brown and white adipose tissues. Deng C, et al. **Br J Pharmacol** 1996 Jun;118(4):929–34
Obesity research continues to spring leaks. Harper ME.
Clin Invest Med 1997 Aug;20(4):239–44 (32 ref.)
Effects of partial sympathectomy of brown fat or of adrenomedullectomy on catecholamine metabolism in cold-reared rats. Bertin R, et al.
Comp Biochem Physiol A Physiol 1996 Jul;114(3):251–6
Interactions between leptin and hypothalamic neuropeptide Y neurons in the control of food intake and energy homeostasis in the rat. Wang Q, et al. **Diabetes** 1997 Mar; 46(3):335–41
Ras proteins mediate induction of uncoupling protein, IGF-I, and IGF-I receptor in rat fetal brown adipocyte cell lines. Porras A, et al. **DNA Cell Biol** 1996 Nov;15(11):921–8
Effects of hypothyroidism on brown adipose tissue adenylyl cyclase activity. Carvalho SD, et al. **Endocrinology** 1996 Dec;137(12):5519–29
Regulation of uncoupling protein messenger ribonucleic acid and 5'-deiodinase activity by thyroid hormones in fetal brown adipose tissue. Obregón MJ, et al. **Endocrinology** 1996 Nov;137(11):4721–9
A role for uncoupling protein-2 as a regulator of mitochondrial hydrogen peroxide generation.
Nègre-Salvayre A, et al. **FASEB J** 1997 Aug;11(10):809–15
beta-Adrenergic stimulation of interleukin-1alpha and interleukin-6 expression in mouse brown adipocytes. Burýsek L, et al. **FEBS Lett** 1997 Jul 7;411(1):83–6
Dramatic enhancement of the specific expression of the heart-type fatty acid binding protein in rat brown adipose tissue by cold exposure. Daikoku T, et al. **FEBS Lett** 1997 Jun 30;410(2–3):383–6
Short photoperiod reduces leptin gene expression in white and brown adipose tissue of Djungarian hamsters. Klingenspor M, et al. **FEBS Lett** 1996 Dec 16;399(3):290–4
Influence of cold exposure on dopamine content in rat brown adipose tissue [published erratum appears in Horm Metab Res 1996 May;28(5):255] Blouquit MF, et al.
Horm Metab Res 1996 Mar;28(3):122–7
Expression of beta3-adrenoceptor and stimulation of glucose transport by beta3-agonists in brown adipocyte primary culture. Nikami H, et al. **J Biochem (Tokyo)** 1996 Jan; 119(1):120–5
Down-regulation of beta3 adrenoreceptor gene expression in brown fat cells is transient and recovery is dependent upon a short-lived protein factor. Bengtsson T, et al.
J Biol Chem 1996 Dec 27;271(52):33366–75
108-pS channel in brown fat mitochondria might Be identical to the inner membrane anion channel. Borecký J, et al.
J Biol Chem 1997 Aug 1;272(31):19282–9
Human immortalized brown adipocytes express functional beta3-adrenoceptor coupled to lipolysis. Zilberfarb V, et al. **J Cell Sci** 1997 Apr;110 (Pt 7):801–7
Beta 3-adrenergic receptor-mediated lipolysis and oxygen consumption in brown adipocytes from cynomolgus monkeys. Meyers DS, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):395–401
Evidence from in vitro differentiating cells that adrenoceptor agonists can increase uncoupling protein mRNA level in adipocytes of adult humans: an RT-PCR study. Champigny O, et al. **J Lipid Res** 1996 Sep;37(9):1907–14
Fasting-induced selective mobilization of brown adipose tissue fatty acids. Groscolas R, et al. **J Lipid Res** 1997 Feb; 38(2):228–38
Beef tallow diet decreases uncoupling protein content in the brown adipose tissue of rats. Matsuo T, et al.
J Nutr Sci Vitaminol (Tokyo) 1996 Dec;42(6):595–601
Fatty acid profiles of phospholipids in brown adipose tissue from rats during cold acclimation and repetitive intermittent immobilization: with special reference to docosahexaenoic acid. Ohno T, et al. **Jpn J Physiol** 1996 Jun;46(3):265–70
Adrenergic and purinergic receptors-mediated calcium responses in brown adipocytes. Omatsu-Kanbe M, et al. **Jpn J Physiol** 1997;47 Suppl 1:S47–8
Morphologic and molecular changes induced by recombinant human leptin in the white and brown adipose tissues of C57BL/6 mice. Sarmiento U, et al. **Lab Invest** 1997 Sep; 77(3):243–56
Expression of c-erbA alpha, c-erbA beta and Rev-erbA alpha mRNA during the conversion of brown adipose tissue into white adipose tissue. Reyne Y, et al.
Mol Cell Endocrinol 1996 Jan 15;116(1):59–65
Cold-induced heat shock protein expression in rat aorta and brown adipose tissue. Matz JM, et al. **Physiol Behav** 1996 Nov;60(5):1369–74
Dynamics of brown fat thermogenesis in week-old rats: evidence of relative stability during moderate cold exposure. Blumberg MS, et al. **Physiol Zool** 1997 May–Jun; 70(3):324–30
The mitochondrial uncoupling protein: structural and genetic studies. Ricquier D, et al.
Prog Nucleic Acid Res Mol Biol 1997;56:83–108 (81 ref.)
Prostaglandin E2 increases the calcium concentration in rat brown adipocytes and their consumption of oxygen. Nagai M, et al. **Prostaglandins** 1996 Jun;51(6):377–86

PATHOLOGY

Mammary adenohibernoma. Damiani S, et al.
Histopathology 1996 Jun;28(6):554–5
Appearance of brown adipocytes in white adipose tissue during CL 316,243-induced reversal of obesity and diabetes in Zucker fa/fa rats. Ghorbani M, et al.
Int J Obes Relat Metab Disord 1997 Jun;21(6):465–75
Morphologic and molecular changes induced by recombinant human leptin in the white and brown adipose tissues of C57BL/6 mice. Sarmiento U, et al. **Lab Invest** 1997 Sep; 77(3):243–56

PHYSIOLOGY

Cold-induced expression of the metallothionein-1 gene in brown adipose tissue of rats. Beattie JH, et al.
Am J Physiol 1996 May;270(5 Pt 2):R971–7
Brown fat thermogenesis and cardiac rate regulation during cold challenge in infant rats. Blumberg MS, et al.
Am J Physiol 1997 Apr;272(4 Pt 2):R1308–13
Effect of hypothyroidism on adenylyl cyclase activity and subtype gene expression in brown adipose tissue. Chaudhry A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R762–7
Identification of brown fat and mechanisms for energy balance in the marsupial, Sminthopsis crassicaudata. Hope PJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R161–7
Adenylyl cyclase inhibitory pathway is differentially modified in rat white and brown fat by high-energy diets. Kenan Y, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E1043–9
Raising at thermoneutrality prevents obesity and hyperphagia in BAT-ablated transgenic mice. Melnyk A, et al.
Am J Physiol 1997 Apr;272(4 Pt 2):R1088–93
Leptin increases uncoupling protein expression and energy expenditure. Scarpace PJ, et al. **Am J Physiol** 1997 Jul; 273(1 Pt 1):E226–30
A hypercaloric load induces thermogenesis but inhibits stress responses in the SNS and HPA system. Strack AM, et al.
Am J Physiol 1997 Mar;272(3 Pt 2):R840–8
Inhibition of brown fat activity during hypothalamic stimulation in the rat. Woods AJ, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R605–13
The interaction between thyroid and brown-fat thermogenesis. Central or peripheral effects? Nedergaard J, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:712–7
Thermoregulation with age: role of beta-adrenergic signal transduction. Scarpace PJ. **Ann N Y Acad Sci** 1997 Mar 15;813:111–6
The lower midbrain tonically inhibits metabolic heat production in anesthetized rats. Shibata M.
Ann N Y Acad Sci 1997 Mar 15;813:127–32
Heat production of brown adipocytes in FOK rats. Tanaka E, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:649–51
Differential regulation of the expression of alpha1-adrenergic receptor subtype genes in brown adipose tissue. Kikuchi-Utsumi K, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):417–24
Uncoupling protein in brown adipose tissue: molecular differentiation of the adipose tissues. Trayhurn P.
Biochem Soc Trans 1996 May;24(2):402–6 (36 ref.)
Short-term stimulation-induced decreases in brown fat temperature. Kelly L, et al. **Brain Res** 1996 Apr 9; 715(1–2):172–9
Procaine microinjection into the lower midbrain increases brown fat and body temperatures in anesthetized rats. Shibata M, et al. **Brain Res** 1996 Apr 15;716(1–2):171–9
Anti-obesity and anti-diabetic effects of mazindol in yellow KK mice: its activating effect on brown adipose tissue thermogenesis. Yoshida T, et al.
Clin Exp Pharmacol Physiol 1996 Jun–Jul;23(6–7):476–82
Chronic leptin treatment does not prevent the development of obesity in transgenic mice with brown fat deficiency. Hamann A, et al. **Diabetologia** 1997 Jul;40(7):810–5
Involvement of Raf-1 kinase and protein kinase C zeta in insulin-like growth factor I-induced brown adipocyte mitogenic signaling cascades: inhibition by cyclic adenosine 3',5'-monophosphate. Valverde AM, et al.
Endocrinology 1996 Sep;137(9):3832–41
Leptin gene is expressed in rat brown adipose tissue at birth. Dessolin S, et al. **FASEB J** 1997 Apr;11(5):382–7
Increased growth of brown adipose tissue but its decreased lysosomal enzyme activity in heat-acclimatized, insulin-treated rats. Ohno H, et al. **Horm Metab Res** 1996 Aug;28(8):397–9
Brown adipose tissue temperature in lean and obese rats during exercise. Ardévol A, et al.
Int J Obes Relat Metab Disord 1996 Aug;20(8):733–7
Swimming training improves brown-adipose-tissue activity in young and old mice. Oh-ishi S, et al.
Mech Ageing Dev 1996 Aug 15;89(2):67–78
Effects of ethanol consumption on brown adipose tissue thermogenic capacity in mice. Muralidhara DV, et al.
Physiol Behav 1996 Aug;60(2):639–44
Cold acclimation-associated changes in brown adipose tissue do not necessarily indicate an increase of nonshivering thermogenesis in C57BL/6J mice. Talan MI, et al.
Physiol Behav 1996 Nov;60(5):1285–9

PHYSIOPATHOLOGY

Thermoregulatory and heat-shock protein response deficits in cold-exposed diabetic mice. Matz JM, et al.
Am J Physiol 1996 Mar;270(3 Pt 2):R525–32
Brown adipose tissue, beta 3-adrenergic receptors, and obesity. Lowell BB, et al. **Annu Rev Med** 1997;48:307–16 (67 ref.)
Stimulation of brown adipose tissue activity in tumor-bearing rats. Oudart H, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1625–31
Effects of swimming training on brown-adipose-tissue activity in obese ob/ob mice: GDP binding and UCP m-RNA expression. Ueno N, et al.
Res Commun Mol Pathol Pharmacol 1997 Jan;95(1):92–104

ULTRASTRUCTURE

Selective up-regulation of alpha1a-adrenergic receptor protein and mRNA in brown adipose tissue by neural and beta3-adrenergic stimulation. Granneman JG, et al.
Mol Pharmacol 1997 Apr;51(4):644–50

BROWN-SEQUARD SYNDROME

DIAGNOSIS

A case of spinal cord decompression sickness presenting as partial Brown-Sequard syndrome. Kimbro T, et al.
Neurology 1997 May;48(5):1454–6

ETIOLOGY

Fracture of the thoracic spine with paralysis and esophageal perforation. Brouwers MA, et al. **Eur Spine J** 1997; 6(3):211–3
Spinal epidural hematoma progressing to Brown-Sequard syndrome: report of a case. Hancock JB, et al.
J Emerg Med 1997 May–Jun;15(3):309–12
Spontaneous thoracic spinal cord herniation. A case report. Sioutos P, et al. **Spine** 1996 Jul 15;21(14):1710–3 (13 ref.)
[Brown-Sequard syndrome secondary to dissecting aortic aneurysm (letter)] Blanco Jiménez J, et al.
Rev Clin Esp 1997 Apr;197(4):299–301 **(Spa)**

BROWNING REACTION see **MAILLARD REACTION**

BROXURIDINE see **BROMODEOXYURIDINE**

BRUCELLA

Recent advances in brucellosis [editorial] Corbel MJ.
J Med Microbiol 1997 Feb;46(2):101–3 (32 ref.)

CHEMISTRY

Identification and characterization of Brucella ovis immunogenic proteins using two-dimensional electrophoresis and immunoblotting. Teixeira-Gomes AP, et al. **Electrophoresis** 1997 Aug;18(8):1491–7
Molecular and immunological characterization of the major outer membrane proteins of Brucella. Cloeckaert A, et al.
FEMS Microbiol Lett 1996 Nov 15;145(1):1–8 (44 ref.)

CLASSIFICATION

Repetitive element sequence based polymerase chain reaction for typing of Brucella strains. Tcherneva E, et al.
Vet Microbiol 1996 Jul;51(1–2):169–78

DRUG EFFECTS

In vitro activity of nonsteroidal anti-inflammatory agents, phenotiazines, and antidepressants against Brucella species. Muñoz-Criado S, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):418–20

GENETICS

Molecular and immunological characterization of the major outer membrane proteins of Brucella. Cloeckaert A, et al.
FEMS Microbiol Lett 1996 Nov 15;145(1):1–8 (44 ref.)
Specificity of six gene sequences for the detection of the genus Brucella by DNA amplification. Da Costa M, et al.
J Appl Bacteriol 1996 Sep;81(3):267–75
IS6501-anchored PCR for the detection and identification of Brucella species and strains. Ouahrani-Bettache S, et

BRUCELLA

al. **J Appl Bacteriol** 1996 Aug;81(2):154–60

Genome structure and phylogeny in the genus Brucella. Michaux-Charachon S, et al. **J Bacteriol** 1997 May; 179(10):3244–9

Polymorphism at the dnaK locus of Brucella species and identification of a Brucella melitensis species-specific marker. Cloeckaert A, et al. **J Med Microbiol** 1996 Sep; 45(3):200–5

[A genetic and molecular biological study of the pathogenicity factors in Brucella] Kulakov IuK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun; (3):34–9 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Diagnosis of brucellosis by using blood cultures. Ruiz J, et al. **J Clin Microbiol** 1997 Sep;35(9):2417–8

Participation of the molecular chaperone DnaK in intracellular growth of Brucella suis within U937-derived phagocytes. Köhler S, et al. **Mol Microbiol** 1996 May; 20(4):701–12

IMMUNOLOGY

Antibody and delayed-type hypersensitivity responses to Ochrobactrum anthropi cytosolic and outer membrane antigens in infections by smooth and rough Brucella spp. Velasco J, et al. **Clin Diagn Lab Immunol** 1997 May; 4(3):279–84

Serological follow-up of human brucellosis by measuring IgG antibodies to lipopolysaccharide and cytoplasmic proteins of Brucella species. Baldi PC, et al. **Clin Infect Dis** 1996 Mar;22(3):446–55

Seroprevalence of brucella antibodies among persons in high-risk occupation in Lebanon. Araj GF, et al. **Epidemiol Infect** 1996 Oct;117(2):281–8

A seroepidemiologic survey on brucellosis antibodies in southern Italy. Torre I, et al. **Infection** 1997 May–Jun; 25(3):150–3

Field evaluation of an indirect ELISA for detection of brucellosis in lowland Bolivia. Kerby PJ, et al. **Trop Anim Health Prod** 1997 May;29(2):65–72

Development and validation of an indirect enzyme immunoassay for detection of ovine antibody to Brucella ovis. Vigliocco AM, et al. **Vet Microbiol** 1997 Mar; 54(3–4):357–68

Use of the enzyme-linked immunosorbent assay for screening cattle for Brucella antibodies in Nigeria. Ocholi RA, et al. **Vet Q** 1996 Mar;18(1):22–4

[Comparative study of the antigenic composition of Brucella canis strains by immunoblotting] Kulakov IuK, et al. **Mol Gen Mikrobiol Virusol** 1997;(3):15–7 (Eng. Abstr.) **(Rus)**

[Unjustified disposal of transfusion blood because of antibodies against brucella] Martínez-Canseco J, et al. **Rev Invest Clin** 1996 Jul–Aug;48(4):297–300 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Evidence of Brucella infection in Parafilaroides lungworms in a Pacific harbor seal (Phoca vitulina richardsi). Garner MM, et al. **J Vet Diagn Invest** 1997 Jul;9(3):298–303

Isolation of Brucella species from cetaceans, seals and an otter. Foster G, et al. **Vet Rec** 1996 Jun 15;138(24):583–6

Brucella species infection in North Sea seal and cetacean populations. Ross HM, et al. **Vet Rec** 1996 Jun 29; 138(26):647–8

[Optimization of Brucella detection using polymerase chain reaction] Balakhonov SV, et al. **Mol Gen Mikrobiol Virusol** 1996 Oct–Dec;(4):33–5 (Eng. Abstr.) **(Rus)**

[Utility of the Stamp method (letter)] Dorronsoro I, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):276 **(Spa)**

METABOLISM

Periplasmic cyclic 1,2-beta-glucan in Brucella spp. is not osmoregulated. Briones G, et al. **Microbiology** 1997 Apr; 143 (Pt 4):1115–24

PATHOGENICITY

Molecular basis of Brucella pathogenicity: an update. Sangari FJ, et al. **Microbiologia** 1996 Jun;12(2):207–18 (92 ref.)

[A genetic and molecular biological study of the pathogenicity factors in Brucella] Kulakov IuK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun; (3):34–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Interactions between professional phagocytes and Brucella spp. Liautard JP, et al. **Microbiologia** 1996 Jun; 12(2):197–206 (36 ref.)

BRUCELLA ABORTUS

Effects of oral or intravenous inoculation with Brucella abortus strain RB51 vaccine in beagles. Palmer MV, et al. **Am J Vet Res** 1997 Aug;58(8):851–6

Prepatellar bursitis caused by Brucella abortus [letter] Davis JM, et al. **Med J Aust** 1996 Oct 21;165(8):460

Study shows one-fifth of female bison infected [news] Baskin Y. **Science** 1997 Jun 20;276(5320):1786

Bison study marks radical shift for research council [news] Lawler A. **Science** 1997 Jun 20;276(5320):1786–7

[Infectious-allergic ophthalmic brucellosis (the validation of a new nosological form)] Dolgatova EI. **Vestn Oftalmol** 1996 Apr–Jun;112(2):31–3 (Eng. Abstr.) **(Rus)**

[The functional metabolic activity of the blood neutrophils in different clinical forms of brucellosis] Safronova VM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb; (1):61–3 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Characterization, occurrence, and molecular cloning of a 39-kilodalton Brucella abortus cytoplasmic protein immunodominant in cattle. Denoel PA, et al. **Infect Immun** 1997 Feb;65(2):495–502

CLASSIFICATION

Determination of stability of Brucella abortus RB51 by use of genomic fingerprint, oxidative metabolism, and colonial morphology and differentiation of strain RB51 from B. abortus isolates from bison and elk. Jensen AE, et al. **J Clin Microbiol** 1996 Mar;34(3):628–33

DRUG EFFECTS

Effect of composition and method of preparation of liposomes on their stability and interaction with murine monocytes infected with Brucella abortus. Vitas AI, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):146–51

Brucella-Salmonella lipopolysaccharide chimeras are less permeable to hydrophobic probes and more sensitive to cationic peptides and EDTA than are their native Brucella sp. counterparts. Freer E, et al. **J Bacteriol** 1996 Oct; 178(20):5867–76

Antimicrobial alpha, alpha-dialkylated amino acid rich peptides with in-vivo activity against an intracellular pathogen. Yokum TS, et al. **J Med Chem** 1996 Sep 13; 39(19):3603–5

The effects of magainin 2, cecropin, mastoparan and melittin on Brucella abortus. Halling SM. **Vet Microbiol** 1996 Jul; 51(1–2):187–92

ENZYMOLOGY

The HtrA stress response protease contributes to resistance of Brucella abortus to killing by murine phagocytes. Elzer PH, et al. **Infect Immun** 1996 Nov;64(11):4838–41

GENETICS

Protection against infection in mice vaccinated with a Brucella abortus mutant. Boschiroli ML, et al. **Infect Immun** 1997 Feb;65(2):798–800

Cloning and nucleotide sequence analysis of a Brucella abortus gene encoding an 18 kDa immunoreactive protein. Kovach ME, et al. **Microb Pathog** 1997 Apr;22(4):241–6

Brucella abortus strain 2308 putative glucose and galactose transporter gene: cloning and characterization. Essenberg RC, et al. **Microbiology** 1997 May;143 (Pt 5):1549–55

IMMUNOLOGY

Serological findings obtained in cattle herds immunised with the Brucella melitensis Rev.1 and the B. abortus B19 vaccine in Mongolia. Dénes B. **Acta Vet Hung** 1997; 45(1):33–43

Effects of age at vaccination on efficacy of Brucella abortus strain RB51 to protect cattle against brucellosis. Cheville NF, et al. **Am J Vet Res** 1996 Aug;57(8):1153–6

Abortion and placentitis in pregnant bison (Bison bison) induced by the vaccine candidate, Brucella abortus strain RB51. Palmer MV, et al. **Am J Vet Res** 1996 Nov; 57(11):1604–7

Safety and immunogenicity of Brucella abortus strain RB51 vaccine in pregnant cattle. Palmer MV, et al. **Am J Vet Res** 1997 May;58(5):472–7

Recombinant Brucella abortus proteins that induce proliferation and gamma-interferon secretion by CD4+ T cells from Brucella-vaccinated mice and delayed-type hypersensitivity in sensitized guinea pigs. Oliveira SC, et al. **Cell Immunol** 1996 Sep 15;172(2):262–8

Long-term effect of primary immunization on subsequent immune responsiveness. Sacks T, et al. **Cell Immunol** 1997 May 1;177(2):162–8

Humoral immune response against lipopolysaccharide and cytoplasmic proteins of Brucella abortus in cattle vaccinated with B. abortus S19 or experimentally infected with Yersinia enterocolitica serotype 0:9. Baldi PC, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):472–6

Role of immune responses to a GroEL heat shock protein in preventing brucellosis in mice vaccinated with Brucella abortus strain RB51. Stevens MG, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):147–53

Variations in the prevalence of antibody to brucella infection in cattle by farm, area and district in Kenya. Kadohira M, et al. **Epidemiol Infect** 1997 Feb;118(1):35–41

Comparison of T cell cytokines in resistant and susceptible mice infected with virulent Brucella abortus strain 2308. Fernandes DM, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31;16(3–4):193–203

Endogenous gamma interferon and interleukin-10 in Brucella abortus 2308 infection in mice. Fernández-Lago L, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2–3):109–14

Characterization, occurrence, and molecular cloning of a 39-kilodalton Brucella abortus cytoplasmic protein immunodominant in cattle. Denoel PA, et al. **Infect Immun** 1997 Feb;65(2):495–502

The HtrA stress response protease contributes to resistance of Brucella abortus to killing by murine phagocytes. Elzer PH, et al. **Infect Immun** 1996 Nov;64(11):4838–41

Immunological response to the Brucella abortus GroEL homolog. Lin J, et al. **Infect Immun** 1996 Oct; 64(10):4396–400

Immune responses and resistance to brucellosis in mice vaccinated orally with Brucella abortus RB51. Stevens MG, et al. **Infect Immun** 1996 Nov;64(11):4534–41

Characterization of smooth lipopolysaccharides and O polysaccharides of Brucella species by competition binding assays with monoclonal antibodies. Weynants V, et al. **Infect Immun** 1997 May;65(5):1939–43

Binding of the Brucella abortus lipopolysaccharide O-chain fragment to a monoclonal antibody. Quantitative analysis by fluorescence quenching and polarization. Lin M, et al. **J Biol Chem** 1997 Jan 31;272(5):2821–7

Inhibition of primary and recall allergen-specific T helper cell type 2-mediated responses by a T helper cell type 1 stimulus. Scott DE, et al. **J Immunol** 1997 Jul 1; 159(1):107–16

T cell-independent response to Brucella-insulin identifies a preimmune repertoire for insulin. Thomas JW, et al. **J Immunol** 1997 Sep 1;159(5):2334–41

A homogeneous fluorescence polarization assay for detection of antibody to Brucella abortus. Nielsen K, et al. **J Immunol Methods** 1996 Sep 9;195(1–2):161–8

Serologic responses of Brucella abortus strain 19 calfhood-vaccinated cattle following adult vaccination with strain RB51. Olsen SC, et al. **J Vet Diagn Invest** 1996 Oct;8(4):451–4

Evidence for genetic control of vaccine-induced antibody responses in cattle. Newman MJ, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1–2):43–54

Intracellular survival of Brucella abortus, Mycobacterium bovis BCG, Salmonella dublin, and Salmonella typhimurium in macrophages from cattle genetically resistant to Brucella abortus. Qureshi T, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1–2):55–65

T lymphocyte mediated protection against facultative intracellular bacteria. Splitter G, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):309–19 (45 ref.)

The sensitizing effect of a Brucella abortus antigen in cattle after repeated intradermal inoculations. Bercovich Z, et al. **Vet Microbiol** 1996 Jul;51(1–2):85–93

Development and validation of an indirect enzyme immunoassay for detection of antibody to Brucella abortus in milk. Nielsen K, et al. **Vet Microbiol** 1996 Sep; 52(1–2):165–73

Brucella abortus siderophore 2,3-dihydroxybenzoic acid protects brucellae from killing by macrophages. Leonard BA, et al. **Vet Res** 1997;28(1):87–92

ISOLATION & PURIFICATION

Infection of cattle with Brucella abortus biovar 1 isolated from a bison in Wood Buffalo National Park. Forbes LB, et al. **Can Vet J** 1996 Jul;37(7):415–9

Experimental infection of pregnant cattle with the vaccine candidate Brucella abortus strain RB51: pathologic, bacteriologic, and serologic findings. Palmer MV, et al. **Vet Pathol** 1996 Nov;33(6):682–91

METABOLISM

Identification and comparison of macrophage-induced proteins and proteins induced under various stress conditions in Brucella abortus [published erratum appears in Infect Immun 1997 Mar;65(3):1137] Rafie-Kolpin M, et al. **Infect Immun** 1996 Dec;64(12):5274–83

PATHOGENICITY

T lymphocyte mediated protection against facultative intracellular bacteria. Splitter G, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):309–19 (45 ref.)

PHYSIOLOGY

The issue of safe testing for brucellosis in Yellowstone bison [letter] Toigo J. **J Am Vet Med Assoc** 1997 Jul 1;211(1):25–7

BRUCELLA MELITENSIS

Infective endocarditis and occult splenic abscess caused by Brucella melitensis infection: a case report and review of the literature. Saadeh AM, et al. **Acta Cardiol** 1996; 51(3):279–85 (32 ref.)

Infected abdominal aortic aneurysm caused by spinal brucellar infection [letter] Yee N, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1068–9

Total knee arthroplasties infected by Brucella melitensis: a case report. Malizos KN, et al. **Am J Orthop** 1997 Apr; 26(4):283–5

A clinical study of brucellosis in adults in the Asir region of southern Saudi Arabia. Malik GM. **Am J Trop Med Hyg** 1997 Apr;56(4):375–7

Surgical treatment of Brucella endocarditis. Quiroga J, et al. **Cardiovasc Surg** 1996 Apr;4(2):227–30

The economic impact of a bioterrorist attack: are prevention and postattack intervention programs justifiable? Kaufmann AF, et al. **Emerg Infect Dis** 1997 Apr-Jun;3(2):83-94 (22 ref.)
Congenital brucellosis in a premature infant. Chheda S, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):81-3
Infection of a pacemaker by Brucella melitensis. de la Fuente A, et al. **Tex Heart Inst J** 1997;24(2):129-30
Brucellosis in fish. Salem SF, et al. **Vet Med (Praha)** 1997 Jan;42(1):5-7
Competitive enzyme-linked immunosorbent assay using monoclonal antibodies to the Brucella melitensis BP26 protein to evaluate antibody responses in infected and B. melitensis Rev.1 vaccinated sheep. Debbarh HS, et al. **Vet Microbiol** 1996 Dec;53(3-4):325-37
Transmission of Brucella melitensis from sheep to lambs. Grilló MJ, et al. **Vet Rec** 1997 Jun 7;140(23):602-5
[Fever and dry cough in a construction worker from Portugal] Wiesli P, et al. **Schweiz Rundsch Med Prax** 1997 Jul 30;86(31-32):1215-9 (Eng. Abstr.) **(Ger)**
[Infectious-allergic ophthalmic brucellosis (the validation of a new nosological form)] Dolgatova EI. **Vestn Oftalmol** 1996 Apr-Jun;112(2):31-3 (Eng. Abstr.) **(Rus)**
[The functional metabolic activity of the blood neutrophils in different clinical forms of brucellosis] Safronova VM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan-Feb;(1):61-3 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Mapping and identification of Brucella melitensis proteins by two-dimensional electrophoresis and microsequencing. Teixeira-Gomes AP, et al. **Electrophoresis** 1997 Jan;18(1):156-62

DRUG EFFECTS

Inadequate azithromycin activity against Brucella melitensis in mice with acute or chronic infections. Domingo S, et al. **J Chemother** 1996 Feb;8(1):55-8
Significance of environmental conditions (pH and serum) on the in vitro potency of azithromycin against Brucella melitensis. Domingo S, et al. **J Chemother** 1995 Nov;7 Suppl 4:29-31

GENETICS

Cloning, nucleotide sequence, and expression of the gene coding for a ribosome releasing factor-homologous protein of Brucella melitensis. Vizcaíno N, et al. **Infect Immun** 1996 Nov;64(11):4834-7

IMMUNOLOGY

Serological findings obtained in cattle herds immunised with the Brucella melitensis Rev.1 and the B. abortus B19 vaccine in Mongolia. Dénes B. **Acta Vet Hung** 1997; 45(1):33-43
Delayed-type hypersensitivity activity of the Brucella L7/L12 ribosomal protein depends on posttranslational modification. Bachrach G, et al. **Infect Immun** 1997 Jan; 65(1):267-71
Lymphocyte proliferative responses of goats vaccinated with Brucella melitensis 16M or a delta purE201 strain. Olsen SC, et al. **Infect Immun** 1997 Jul;65(7):2987-91
Outer membrane protein of Neisseria meningitidis as a mucosal adjuvant for lipopolysaccharide of Brucella melitensis in mouse and guinea pig intranasal immunization models. Van De Verg LL, et al. **Infect Immun** 1996 Dec; 64(12):5263-8
Characterization of smooth lipopolysaccharides and O polysaccharides of Brucella species by competition binding assays with monoclonal antibodies. Weynants V, et al. **Infect Immun** 1997 May;65(5):1939-43
Production and characterisation of monoclonal antibodies to Brucella melitensis cytosoluble proteins that are able to differentiate antibody responses of infected sheep from Rev. 1 vaccinated sheep. Cloeckaert A, et al. **J Med Microbiol** 1996 Sep;45(3):206-13
Identification of the major T-cell antigens present in the Brucella melitensis B115 protein preparation, Brucellergene OCB. Denoel PA, et al. **J Med Microbiol** 1997 Sep; 46(9):801-6
A review of the use of B. melitensis Rev 1 vaccine in adult sheep and goats. Blasco JM. **Prev Vet Med** 1997 Aug; 31(3-4):275-83 (37 ref.)
Serological serum protein fraction and responses to Brucella melitensis in lambs fed aflatoxins. Fernandez A, et al. **Vet Hum Toxicol** 1997 Jun;39(3):137-40

ISOLATION & PURIFICATION

Brucella melitensis osteitis following craniotomy in a patient with AIDS. Galle C, et al. **Clin Infect Dis** 1997 May; 24(5):1012
Chronic subdural empyema: a new presentation of neurobrucellosis. Shoshan Y, et al. **Clin Infect Dis** 1996 Aug;23(2):400-1
Hepatosplenic abscesses due to Brucella melitensis: report of a case involving a child and review of the literature. Vallejo JG, et al. **Clin Infect Dis** 1996 Mar;22(3):485-9 (22 ref.)
Detection of Brucella melitensis by BACTEC NR 730 and BACTEC 9120 systems. Gedikoğlu S, et al. **Eur J Epidemiol** 1996 Dec;12(6):649-50
Thrombosis of the abdominal aorta secondary to Brucella spondylitis. Sanchez-Gonzalez J, et al. **Infection** 1996 May-Jun;24(3):261-2
Comparison of BACTEC 9240 Peds Plus medium and isolator 1.5 microbial tube for detection of Brucella melitensis from blood cultures. Yagupsky P, et al. **J Clin Microbiol** 1997 Jun;35(6):1382-4
Breast abscess caused by Brucella melitensis. Al Abdely HM, et al. **J Infect** 1996 Nov;33(3):219-20
[Epidemic outbreak of 81 cases of brucellosis following the consumption of fresh cheese without pasteurization] Castell Monsalve J, et al. **Rev Esp Salud Publica** 1996 May-Jun; 70(3):303-11 (Eng. Abstr.) **(Spa)**

VIROLOGY

First report of a strain of Brucella melitensis that was widely sensitive to brucellaphages isolated in the United Arab Emirates. Worsley B, et al. **Clin Infect Dis** 1996 Jan; 22(1):190-1

BRUCELLA VACCINE

A review of the use of B. melitensis Rev 1 vaccine in adult sheep and goats. Blasco JM. **Prev Vet Med** 1997 Aug; 31(3-4):275-83 (37 ref.)

ADVERSE EFFECTS

Abortion and placentitis in pregnant bison (Bison bison) induced by the vaccine candidate, Brucella abortus strain RB51. Palmer MV, et al. **Am J Vet Res** 1996 Nov; 57(11):1604-7

GENETICS

Protection against infection in mice vaccinated with a Brucella abortus mutant. Boschiroli ML, et al. **Infect Immun** 1997 Feb;65(2):798-800

IMMUNOLOGY

Serological findings obtained in cattle herds immunised with the Brucella melitensis Rev.1 and the B. abortus B19 vaccine in Mongolia. Dénes B. **Acta Vet Hung** 1997; 45(1):33-43
Safety and immunogenicity of Brucella abortus strain RB51 vaccine in pregnant cattle. Palmer MV, et al. **Am J Vet Res** 1997 May;58(5):472-7
Recombinant Brucella abortus proteins that induce proliferation and gamma-interferon secretion by CD4+ T cells from Brucella-vaccinated mice and delayed-type hypersensitivity in sensitized guinea pigs. Oliveira SC, et al. **Cell Immunol** 1996 Sep 15;172(2):262-8
Long-term effect of primary immunization on subsequent immune responsiveness. Sacks T, et al. **Cell Immunol** 1997 May 1;177(2):162-8
Protection against infection in mice vaccinated with a Brucella abortus mutant. Boschiroli ML, et al. **Infect Immun** 1997 Feb;65(2):798-800
Immune responses and resistance to bruceilosis in mice vaccinated orally with Brucella abortus RB51. Stevens MG, et al. **Infect Immun** 1996 Nov;64(11):4534-41
Effect of chronic fenvalerate (synthetic pyrethroid) intoxication on the immune response of goats to Brucella abortus strain 19 vaccine. Singh KK, et al. **J Comp Pathol** 1996 Oct;115(3):299-303

STANDARDS

Safety and immunogenicity of Brucella abortus strain RB51 vaccine in pregnant cattle. Palmer MV, et al. **Am J Vet Res** 1997 May;58(5):472-7

BRUCELLACEAE see **BRUCELLA**

BRUCELLOSIS

Arthritis of shoulder and spinal cord compression due to Brucella disc infection [clinical conference] Ibero I, et al. **Br J Rheumatol** 1997 Mar;36(3):377-81
Brucellar oligoarthritis involving the left temporomandibular, left sternoclavicular and left ankle joints [letter] Adak B, et al. **Clin Exp Rheumatol** 1997 Jan-Feb;15(1):122-3
Ocular Brucellosis. al-Kaff AS. **Int Ophthalmol Clin** 1995 Summer;35(3):139-45 (32 ref.)
Recent advances in brucellosis [editorial] Corbel MJ. **J Med Microbiol** 1997 Feb;46(2):101-3 (32 ref.)
Prepatellar bursitis caused by Brucella abortus [letter] Davis JM, et al. **Med J Aust** 1996 Oct 21;165(8):460
Brucella pneumonia. Sanford JP. **Semin Respir Infect** 1997 Mar;12(1):24-7
[Brucellosis with osteo-muscular localization. A case report of a not rare pathological condition] Maturanza M, et al. **Minerva Chir** 1997 Mar;52(3):307-8 (Eng. Abstr.) **(Ita)**
[Ocular status of patients with brucellosis] Dolgatova EI. **Vestn Oftalmol** 1997 Jan-Feb;113(1):37-8 (Eng. Abstr.) **(Rus)**
[[Brucellar orchiepididymitis with abscess] González Sánchez FJ, et al. **Arch Esp Urol** 1997 Apr;50(3):289-92 (14 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

[The functional metabolic activity of the blood neutrophils in different clinical forms of brucellosis] Safronova VM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan-Feb; (1):61-3 (Eng. Abstr.) **(Rus)**
[Unjustified disposal of transfusion blood because of antibodies against brucella] Martínez-Canseco J, et al. **Rev Invest Clin** 1996 Jul-Aug;48(4):297-300 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

[Infectious-allergic ophthalmic brucellosis (the validation of a new nosological form)] Dolgatova EI. **Vestn Oftalmol** 1996 Apr-Jun;112(2):31-3 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Infected abdominal aortic aneurysm caused by spinal brucellar infection [letter] Yee N, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1068-9
Brucellosis and polyneuroradiculomyeloencephalitis. A case report. Riestra-Castañeda R, et al. **Arch Med Res** 1996 Autumn;27(3):331-3
First report of a strain of Brucella melitensis that was widely sensitive to brucellaphages isolated in the United Arab Emirates. Worsley B, et al. **Clin Infect Dis** 1996 Jan; 22(1):190-1
Brucellosis of the spine with a synchronous Staphylococcus aureus pyogenic elbow infection. Velan GJ, et al. **Eur Spine J** 1997;6(4):284-5
Thrombosis of the abdominal aorta secondary to Brucella spondylitis. Sanchez-Gonzalez J, et al. **Infection** 1996 May-Jun;24(3):261-2
MRI of brucella polyneuritis in a child. Tali ET, et al. **Neuroradiology** 1996 May;38 Suppl 1:S190-2
Brucella endocarditis associated with glomerulonephritis and renal vasculitis. Elzouki AY, et al. **Pediatr Nephrol** 1996 Dec;10(6):748-51
[Brucellosis of the pubic symphysis. Apropos of a case. Review of the literature] Mansoori D, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(8):753-6 (30 ref.) (Eng. Abstr.) **(Fre)**
[Spondylitis and bilateral psoas abscess caused by Brucella (letter)] Metola Sacristán L, et al. **An Med Interna** 1995 Sep;12(9):465-6 **(Spa)**
[Psoas abscess secondary to brucellar sacroiliitis. Resolution after conservative treatment (letter)] Martín-Dávila P, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):45-6 **(Spa)**
[Microangiopathic hemolytic anemia associated with acute brucellosis (letter)] Calvo Villas JM, et al. **Med Clin (Barc)** 1997 Jul 5;109(6):236 **(Spa)**

CONGENITAL

Congenital brucellosis in a premature infant. Chheda S, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):81-3

DIAGNOSIS

Brucella melitensis osteitis following craniotomy in a patient with AIDS. Galle C, et al. **Clin Infect Dis** 1997 May; 24(5):1012
Polyradiculoneuropathy with cerebrospinal fluid albuminocytological dissociation due to neurobrucellosis. Oliveri RI, et al. **Clin Infect Dis** 1996 Oct;23(4):833-4
Recognition and optimum treatment of brucellosis. Solera J, et al. **Drugs** 1997 Feb;53(2):245-56 (91 ref.)
Knowledge-based patient screening for rare and emerging infectious/parasitic diseases: a case study of brucellosis and murine typhus. Carter CN, et al. **Emerg Infect Dis** 1997 Jan-Mar;3(1):73-6
Detection of Brucella melitensis by BACTEC NR 730 and BACTEC 9120 systems. Gedikoğlu S, et al. **Eur J Epidemiol** 1996 Dec;12(6):649-50
An unusual case of brucellosis in Japan: difficulties in the differential diagnosis from pulmonary tuberculosis. Takahashi H, et al. **Intern Med** 1996 Apr;35(4):310-4
Diagnosis of brucellosis by using blood cultures. Ruiz J, et al. **J Clin Microbiol** 1997 Sep;35(9):2417-8
A 54-year-old stockbreeder with ascites. Bourantas KL, et al. **Lancet** 1997 Apr 5;349(9057):994
Brucella infection of the thyroid gland. Azizi F, et al. **Thyroid** 1996 Oct;6(5):461-3
Spinal brucellosis in a southern California resident. Applebaum GD, et al. **West J Med** 1997 Jan;166(1):61-5
[Informative capacity of 8 serological tests in the diagnosis of human brucellosis] Laudat P, et al. **Pathol Biol (Paris)** 1995 Nov;43(9):754-9 (Eng. Abstr.) **(Fre)**
[Does reactive arthritis caused by Brucella exist? Apropos of 4 cases] Dubost JJ, et al. **Presse Med** 1997 Feb 22; 26(5):207-10 (Eng. Abstr.) **(Fre)**
[Fever and dry cough in a construction worker from Portugal] Wiesli P, et al. **Schweiz Rundsch Med Prax** 1997 Jul 30;86(31-32):1215-9 (Eng. Abstr.) **(Ger)**
[The use of the television microscopicanalysis for the serodiagnosis of salmonellosis and brucellosis] Shub GM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan-Feb; (1):46-9 (Eng. Abstr.) **(Rus)**
[Molecular diagnosis of infectious and parasitic diseases] Said-Fernández S, et al. **Gac Med Mex** 1996 May-Jun; 132(3):295-318 (135 ref.) **(Spa)**

DRUG THERAPY

Failure of short antimicrobial treatments for human

BRUCELLOSIS

brucellosis [letter; comment] Abramson O, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1621–2. Comment on: Antimicrob Agents Chemother 1997 Jan;41(1):80–4.

Treatment of human brucellosis with doxycycline and gentamicin [see comments] Solera J, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):80–4. Comment in: Antimicrob Agents Chemother 1997 Jul;41(7):1621–2.

Protective effect of liposomal gentamicin against systemic acute murine brucellosis. Vitas AI, et al. **Chemotherapy** 1997 May–Jun;43(3):204–10

Conservative treatment for Brucella endocarditis. Cohen N, et al. **Clin Cardiol** 1997 Mar;20(3):291–4 (24 ref.)

Treatment of human brucellosis with netilmicin and doxycycline. Solera J, et al. **Clin Infect Dis** 1996 Mar; 22(3):441–5

Recognition and optimum treatment of brucellosis. Solera J, et al. **Drugs** 1997 Feb;53(2):245–56 (91 ref.)

Inadequate azithromycin activity against Brucella melitensis in mice with acute or chronic infections. Domingo S, et al. **J Chemother** 1996 Feb;8(1):55–8

Failure of short-term antimicrobial therapy in childhood brucellosis. Sánchez-Tamayo T, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):323–4

ECONOMICS

The economic impact of a bioterrorist attack: are prevention and postattack intervention programs justifiable? Kaufmann AF, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):83–94 (22 ref.)

EPIDEMIOLOGY

Infective endocarditis and occult splenic abscess caused by Brucella melitensis infection: a case report and review of the literature. Saadeh AM, et al. **Acta Cardiol** 1996; 51(3):279–85 (32 ref.)

Sero-epidemiology and perception of human brucellosis in Calabar, Nigeria [letter] Useh MF, et al. **Cent Afr J Med** 1996 Jun;42(6):184–5

Brucellosis: an overview. Corbel MJ. **Emerg Infect Dis** 1997 Apr–Jun;3(2):213–21 (68 ref.)

A seroepidemiologic survey on brucellosis antibodies in southern Italy. Torre I, et al. **Infection** 1997 May–Jun; 25(3):150–3

Seroprevalence of brucellosis among high risk people in northern Jordan. Abo-Shehada MN, et al. **Int J Epidemiol** 1996 Apr;25(2):450–4

Childhood brucellosis in Israel. Gottesman G, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):610–5

Study shows one-fifth of female bison infected [news] Baskin Y. **Science** 1997 Jun 20;276(5320):1786

[Brucellosis in 1995] Seroka D. **Przegl Epidemiol** 1997; 51(1–2):153–5 **(Pol)**

[The epidemiological characteristics of brucellosis in the primary health care district of Sierra de Cádiz] Pérez-Rendón González J, et al. **Aten Primaria** 1997 Apr 15;19(6):290–5 (Eng. Abstr.) **(Spa)**

[Epidemic outbreak of 81 cases of brucellosis following the consumption of fresh cheese without pasteurization] Castell Monsalve J, et al. **Rev Esp Salud Publica** 1996 May–Jun; 70(3):303–11 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Total knee arthroplasties infected by Brucella melitensis: a case report. Malizos KN, et al. **Am J Orthop** 1997 Apr; 26(4):283–5

Infection of a pacemaker by Brucella melitensis. de la Fuente A, et al. **Tex Heart Inst J** 1997;24(2):129–30

HISTORY

The saga of brucellosis: controversy over credit for linking Malta fever with goats' milk. Vassallo DJ. **Lancet** 1996 Sep 21;348(9030):804–8

IMMUNOLOGY

Antibody and delayed-type hypersensitivity responses to Ochrobactrum anthropi cytosolic and outer membrane antigens in infections by smooth and rough Brucella spp. Velasco J, et al. **Clin Diagn Lab Immunol** 1997 May; 4(3):279–84

Serological follow-up of human brucellosis by measuring IgG antibodies to lipopolysaccharide and cytoplasmic proteins of Brucella species. Baldi PC, et al. **Clin Infect Dis** 1996 Mar;22(3):446–55

Role of immune responses to a GroEL heat shock protein in preventing brucellosis in mice vaccinated with Brucella abortus strain RB51. Stevens MG, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):147–53

Seroprevalence of brucella antibodies among persons in high-risk occupation in Lebanon. Araj GF, et al. **Epidemiol Infect** 1996 Oct;117(2):281–8

Defective interferon-gamma production by T-lymphocytes from patients with acute brucellosis. Rodriguez-Zapata M, et al. **Eur J Clin Invest** 1996 Feb;26(2):136–40

Comparison of T cell cytokines in resistant and susceptible mice infected with virulent Brucella abortus strain 2308. Fernandes DM, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31;16(3–4):193–203

Endogenous gamma interferon and interleukin-10 in Brucella abortus 2308 infection in mice. Fernández-Lago L, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2–3):109–14

The HtrA stress response protease contributes to resistance of Brucella abortus to killing by murine phagocytes. Elzer PH, et al. **Infect Immun** 1996 Nov;64(11):4838–41

Immune responses and resistance to brucellosis in mice vaccinated orally with Brucella abortus RB51. Stevens MG, et al. **Infect Immun** 1996 Nov;64(11):4534–41

Diminished T lymphocyte proliferative response to polyclonal mitogens in acute brucellosis patients. Rodriguez-Zapata M, et al. **Infection** 1996 Mar–Apr; 24(2):115–20

Defective reactive oxygen metabolite generation by macrophages from acute brucellosis patients [letter] Rodriguez-Zapata M, et al. **Infection** 1997 May–Jun; 25(3):187–8

Sero-prevalence of brucellosis among abattoir personnel of Delhi. Kumar P, et al. **J Commun Dis** 1997 Jun;29(2):131–7

Production and characterisation of monoclonal antibodies to Brucella melitensis cytosoluble proteins that are able to differentiate antibody responses of infected sheep from Rev. 1 vaccinated sheep. Cloeckaert A, et al. **J Med Microbiol** 1996 Sep;45(3):206–13

Identification of the major T-cell antigens present in the Brucella melitensis B115 protein preparation, Brucellergene OCB. Denoel PA, et al. **J Med Microbiol** 1997 Sep; 46(9):801–6

Interactions between professional phagocytes and Brucella spp. Liautard JP, et al. **Microbiologia** 1996 Jun; 12(2):197–206 (36 ref.)

Molecular basis of Brucella pathogenicity: an update. Sangari FJ, et al. **Microbiologia** 1996 Jun;12(2):207–18 (92 ref.)

[Unjustified disposal of transfusion blood because of antibodies against brucella] Martínez-Canseco J, et al. **Rev Invest Clin** 1996 Jul–Aug;48(4):297–300 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Chronic subdural empyema: a new presentation of neurobrucellosis. Shoshan Y, et al. **Clin Infect Dis** 1996 Aug;23(2):400–1

Hepatosplenic abscesses due to Brucella melitensis: report of a case involving a child and review of the literature. Vallejo JG, et al. **Clin Infect Dis** 1996 Mar;22(3):485–9 (22 ref.)

Comparison of BACTEC 9240 Peds Plus medium and isolator 1.5 microbial tube for detection of Brucella melitensis from blood cultures. Yagupsky P, et al. **J Clin Microbiol** 1997 Jun;35(6):1382–4

Breast abscess caused by Brucella melitensis. Al Abdely HM, et al. **J Infect** 1996 Nov;33(3):219–20

[Nervous system brucellosis in Lebanon. Report of six cases] Tohmé A, et al. **J Med Liban** 1996;44(2):100–6 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

A clinical study of brucellosis in adults in the Asir region of southern Saudi Arabia. Malik GM. **Am J Trop Med Hyg** 1997 Apr;56(4):375–7

Brucellosis and the gastrointestinal tract. The odd couple. Ablin J, et al. **J Clin Gastroenterol** 1997 Jan;24(1):25–9

PREVENTION & CONTROL

Role of immune responses to a GroEL heat shock protein in preventing brucellosis in mice vaccinated with Brucella abortus strain RB51. Stevens MG, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):147–53

Protection against infection in mice vaccinated with a Brucella abortus mutant. Boschiroli ML, et al. **Infect Immun** 1997 Feb;65(2):798–800

Immunization of mice with recombinant L7/L12 ribosomal protein confers protection against Brucella abortus infection. Oliveira SC, et al. **Vaccine** 1996 Jul;14(10):959–62

SURGERY

Surgical treatment of Brucella endocarditis. Quiroga J, et al. **Cardiovasc Surg** 1996 Apr;4(2):227–30

TRANSMISSION

A case of laboratory acquired brucellosis [clinical conference] [published erratum appears in BMJ 1997 Jan 11;314(7074):134] Arlett PR. **BMJ** 1996 Nov 2; 313(7065):1130–2

Brucellosis from sniffing bacteriological cultures [letter] [see comments] Grammont-Cupillard M, et al. **Lancet** 1996 Dec 21–28;348(9043):1733–4. Comment in: Lancet 1997 Mar 1;349(9052):651.

Exposure to Brucella in the laboratory [letter; comment] Zervos MJ, et al. **Lancet** 1997 Mar 1;349(9052):651. Comment on: Lancet 1996 Dec 21–28;348(9043):1733–4.

VETERINARY

Serological findings obtained in cattle herds immunised with the Brucella melitensis Rev.1 and the B. abortus B19 vaccine in Mongolia. Dénes B. **Acta Vet Hung** 1997; 45(1):33–43

Abortion and placentitis in pregnant bison (Bison bison) induced by the vaccine candidate, Brucella abortus strain RB51. Palmer MV, et al. **Am J Vet Res** 1996 Nov; 57(11):1604–7

Effects of oral or intravenous inoculation with Brucella abortus strain RB51 vaccine in beagles. Palmer MV, et al. **Am J Vet Res** 1997 Aug;58(8):851–6

Infection of cattle with Brucella abortus biovar 1 isolated from a bison in Wood Buffalo National Park. Forbes LB, et al. **Can Vet J** 1996 Jul;37(7):415–9

The brucellosis affected dairy herd and the program veterinarian. Sawyer JC. **Comp Immunol Microbiol Infect Dis** 1996 Jun;19(3):191–7

States, agencies discuss solutions for handling Yellowstone bison, brucellosis [news] Inserro JC. **J Am Vet Med Assoc** 1997 Mar 1;210(5):593–5

The issue of safe testing for brucellosis in Yellowstone bison [letter] Toigo J. **J Am Vet Med Assoc** 1997 Jul 1;211(1):25–7

Serological and bacteriological study of swine brucellosis. Lord VR, et al. **J Clin Microbiol** 1997 Jan;35(1):295–7

Effect of chronic fenvalerate (synthetic pyrethroid) intoxication on the immune response of goats to Brucella abortus strain 19 vaccine. Singh KK, et al. **J Comp Pathol** 1996 Oct;115(3):299–303

Production and characterisation of monoclonal antibodies to Brucella melitensis cytosoluble proteins that are able to differentiate antibody responses of infected sheep from Rev. 1 vaccinated sheep. Cloeckaert A, et al. **J Med Microbiol** 1996 Sep;45(3):206–13

Evidence of Brucella infection in Parafilaroides lungworms in a Pacific harbor seal (Phoca vitulina richardsi). Garner MM, et al. **J Vet Diagn Invest** 1997 Jul;9(3):298–303

A review of the use of B. melitensis Rev 1 vaccine in adult sheep and goats. Blasco JM. **Prev Vet Med** 1997 Aug; 31(3–4):275–83 (37 ref.)

Seroprevalences of brucellosis, Q-fever and toxoplasmosis in slaughter livestock in Trinidad. Adesiyun AA, et al. **Rev Elev Med Vet Pays Trop** 1996;49(1):28–30

Bison study marks radical shift for research council [news] Lawler A. **Science** 1997 Jun 20;276(5320):1786–7

Canine brucellosis: a diagnostician's dilemma. Carmichael LE, et al. **Semin Vet Med Surg (Small Anim)** 1996 Aug; 11(3):161–5 (22 ref.)

Brucellosis in fish. Salem SF, et al. **Vet Med (Praha)** 1997 Jan;42(1):5–7

Competitive enzyme-linked immunosorbent assay using monoclonal antibodies to the Brucella melitensis BP26 protein to evaluate antibody responses in infected and B. melitensis Rev.1 vaccinated sheep. Debbarh HS, et al. **Vet Microbiol** 1996 Dec;53(3–4):325–37

Repetitive element sequence based polymerase chain reaction for typing of Brucella strains. Tcherneva E, et al. **Vet Microbiol** 1996 Jul;51(1–2):169–78

Development and validation of an indirect enzyme immunoassay for detection of ovine antibody to Brucella ovis. Vigliocco AM, et al. **Vet Microbiol** 1997 Mar; 54(3–4):357–68

Use of the enzyme-linked immunosorbent assay for screening cattle for Brucella antibodies in Nigeria. Ocholi RA, et al. **Vet Q** 1996 Mar;18(1):22–4

Isolation of Brucella species from cetaceans, seals and an otter. Foster G, et al. **Vet Rec** 1996 Jun 15;138(24):583–6

Transmission of Brucella melitensis from sheep to lambs. Grilló MJ, et al. **Vet Rec** 1997 Jun 7;140(23):602–5

Arrangements for bovine abortion investigations [letter] McKeating FJ. **Vet Rec** 1997 Jun 21;140(25):663–4

Brucella species infection in North Sea seal and cetacean populations. Ross HM, et al. **Vet Rec** 1996 Jun 29; 138(26):647–8

[Comparison of the results from commercially available Brucella ELISA test kits for the investigation of bovine sera] Staak C, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jun;110(6):206–10 (Eng. Abstr.) **(Ger)**

[Optimization of Brucella detection using polymerase chain reaction] Balakhonov SV, et al. **Mol Gen Mikrobiol Virusol** 1996 Oct–Dec;(4):33–5 (Eng. Abstr.) **(Rus)**

BRUCELLOSIS, BOVINE

Brucella melitensis biotype 1 outbreak in goats in northern KwaZulu-Natal. Reichel R, et al. **Onderstepoort J Vet Res** 1996 Jun;63(2):183–5

DIAGNOSIS

Field evaluation of an indirect ELISA for detection of brucellosis in lowland Bolivia. Kerby PJ, et al. **Trop Anim Health Prod** 1997 May;29(2):65–72

The sensitizing effect of a Brucella abortus antigen in cattle after repeated intradermal inoculations. Bercovich Z, et al. **Vet Microbiol** 1996 Jul;51(1–2):85–93

Development and validation of an indirect enzyme immunoassay for detection of antibody to Brucella abortus in milk. Nielsen K, et al. **Vet Microbiol** 1996 Sep; 52(1–2):165–73

An indirect ELISA using a monoclonal anti IgG1 enzyme conjugate for the diagnosis of bovine brucellosis. Uzal FA, et al. **Vet Microbiol** 1996 Sep;52(1–2):175–80

False positive serological reactions in bovine brucellosis: evidence of the role of Yersinia enterocolitica serotype O:9 in a field trial. Gerbier G, et al. **Vet Res** 1997 Jul–Aug; 28(4):375–83

The Brucellin skin test as a tool to discriminate false positive serological reactions in bovine brucellosis. Pouillot R, et al. **Vet Res** 1997 Jul–Aug;28(4):365–74

Evaluation of a competitive ELISA for the diagnosis of bovine brucellosis. Uzal FA, et al. **Vet Res Commun** 1996; 20(5):421–6

ECONOMICS

Economic evaluation of bovine brucellosis and tuberculosis eradication programmes in a mountain area of Spain. Bernués A, et al. **Prev Vet Med** 1997 May;30(2):137–49

EPIDEMIOLOGY

Variations in the prevalence of antibody to brucella infection in cattle by farm, area and district in Kenya. Kadohira M, et al. **Epidemiol Infect** 1997 Feb;118(1):35–41

Assessing infections at multiple levels of aggregation. Kadohira M, et al. **Prev Vet Med** 1997 Jan;29(3):161–77

Field evaluation of an indirect ELISA for detection of brucellosis in lowland Bolivia. Kerby PJ, et al. **Trop Anim Health Prod** 1997 May;29(2):65–72

HISTORY

The Brucellosis Research Network of the United Nations University/Biotechnology in Latin America and the Caribbean Program. Dukes TW. **Can Vet J** 1997 Feb; 38(2):93–4

IMMUNOLOGY

Serologic responses of Brucella abortus strain 19 calfhood-vaccinated cattle following adult vaccination with strain RB51. Olsen SC, et al. **J Vet Diagn Invest** 1996 Oct;8(4):451–4

T lymphocyte mediated protection against facultative intracellular bacteria. Splitter G, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):309–19 (45 ref.)

Development and validation of an indirect enzyme immunoassay for detection of antibody to Brucella abortus in milk. Nielsen K, et al. **Vet Microbiol** 1996 Sep; 52(1–2):165–73

Experimental infection of pregnant cattle with the vaccine candidate Brucella abortus strain RB51: pathologic, bacteriologic, and serologic findings. Palmer MV, et al. **Vet Pathol** 1996 Nov;33(6):682–91

PATHOLOGY

Experimental infection of pregnant cattle with the vaccine candidate Brucella abortus strain RB51: pathologic, bacteriologic, and serologic findings. Palmer MV, et al. **Vet Pathol** 1996 Nov;33(6):682–91

PREVENTION & CONTROL

Effects of age at vaccination on efficacy of Brucella abortus strain RB51 to protect cattle against brucellosis. Cheville NF, et al. **Am J Vet Res** 1996 Aug;57(8):1153–6

Safety and immunogenicity of Brucella abortus strain RB51 vaccine in pregnant cattle. Palmer MV, et al. **Am J Vet Res** 1997 May;58(5):472–7

Economic evaluation of bovine brucellosis and tuberculosis eradication programmes in a mountain area of Spain. Bernués A, et al. **Prev Vet Med** 1997 May;30(2):137–49

T lymphocyte mediated protection against facultative intracellular bacteria. Splitter G, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):309–19 (45 ref.)

TRANSMISSION

Study shows one-fifth of female bison infected [news] Baskin Y. **Science** 1997 Jun 20;276(5320):1786

Bison study marks radical shift for research council [news] Lawler A. **Science** 1997 Jun 20;276(5320):1786–7

BRUCH MEMBRANE

ANATOMY & HISTOLOGY

Tissue compartments in laminae II–V of rabbit visual cortex--three-dimensional arrangement, size and developmental changes. Schmolke C. **Anat Embryol (Berl)** 1996 Jan;193(1):15–33

EMBRYOLOGY

Tissue compartments in laminae II–V of rabbit visual cortex--three-dimensional arrangement, size and developmental changes. Schmolke C. **Anat Embryol (Berl)** 1996 Jan;193(1):15–33

ENZYMOLOGY

Tissue inhibitor of metalloproteinases-3 is a component of Bruch's membrane of the eye. Fariss RN, et al. **Am J Pathol** 1997 Jan;150(1):323–8

METABOLISM

Localization of the site of major resistance to fluid transport in Bruch's membrane. Starita C, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):762–7

[Histochemical studies on glycosaminoglycans in Bruch's membrane of experimental microphthalmic mice] Uno M, et al. **Nippon Ganka Gakkai Zasshi** 1996 Feb;100(2):126–31 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Characteristics of Drusen and Bruch's membrane in postmortem eyes with age-related macular degeneration. Spraul CW, et al. **Arch Ophthalmol** 1997 Feb;115(2):267–73

Morphometric analysis of the choroid, Bruch's membrane, and retinal pigment epithelium in eyes with age-related macular degeneration [letter; comment] Kiel JW, et al. **Invest Ophthalmol Vis Sci** 1997 Jun;38(7):1290–2. Comment on: Invest Ophthalmol Vis Sci 1996 Dec;37(13):2724–35.

Morphometric analysis of the choroid, Bruch's membrane, and retinal pigment epithelium in eyes with age-related macular degeneration [see comments] Spraul CW, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2724–35. Comment in: Invest Ophthalmol Vis Sci 1997 Jun;38(7):1290–2.

PHYSIOLOGY

Reattachment of cultured human retinal pigment epithelium to extracellular matrix and human Bruch's membrane. Ho TC, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1110–8

BRUCITE see **MAGNESIUM HYDROXIDE**

BRUEGHEL SYNDROME see **MEIGE SYNDROME**

BRUGIA

Lymphatic filariasis. Rajan TV, et al. **Chem Immunol** 1997; 66:125–58 (127 ref.)

CLASSIFICATION

Molecular phylogenetic studies on Brugia filariae using Hha I repeat sequences. Xie H, et al. **Parasite** 1994 Sep; 1(3):255–60

ENZYMOLOGY

Discrete transcripts encode multiple chitinase isoforms in Brugian microfilariae. Arnold K, et al. **Mol Biochem Parasitol** 1996 Oct 1;80(2):149–58

GENETICS

Discrete transcripts encode multiple chitinase isoforms in Brugian microfilariae. Arnold K, et al. **Mol Biochem Parasitol** 1996 Oct 1;80(2):149–58

Molecular phylogenetic studies on Brugia filariae using Hha I repeat sequences. Xie H, et al. **Parasite** 1994 Sep; 1(3):255–60

ISOLATION & PURIFICATION

Tropical pulmonary eosinophilia. Vijayan VK. **Indian J Chest Dis Allied Sci** 1996 Jul–Sep;38(3):169–80 (101 ref.)

BRUGIA MALAYI

A lymphatic filarial survey revealing a focus of Brugia malayi in the coastal region of west Bengal. Bera DK, et al. **J Indian Med Assoc** 1996 Aug;94(8):296–7, 310

Depression of antigen-specific interleukin-5 and interferon-gamma responses in human lymphatic filariasis as a function of clinical status and age. Sartono E, et al. **J Infect Dis** 1997 May;175(5):1276–80

Lymphatic filariasis and the women of India. Bandyopadhyay L. **Soc Sci Med** 1996 May;42(10):1401–10 (33 ref.)

Anopheles donaldi incriminated as a vector of periodic Brugia malayi in Grik, Perak, Malaysia. Vythilingam I, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):637–41

Renal disease in lymphatic filariasis: evidence for tubular and glomerular disorders at various stages of the infection. Langhammer J, et al. **Trop Med Int Health** 1997 Sep; 2(9):875–84

CHEMISTRY

Necrosis of lung epithelial cells by filarial parasitic protein via an early induction of c-H-ras and TNF alpha expression. Maya A, et al. **Cell Biol Int** 1997 May; 21(5):273–80

Identification and composition of lipid classes in surface and somatic preparations of adult Brugia malayi. Smith VP, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):105–16

DRUG EFFECTS

Cytostatic and cytotoxic effects of activated macrophages and nitric oxide donors on Brugia malayi. Thomas GR, et al. **Infect Immun** 1997 Jul;65(7):2732–9

The effect of chitin synthesis inhibitors on the development of Brugia malayi in Aedes aegypti. Mohapatra R, et al. **J Helminthol** 1996 Sep;70(3):269–70

Susceptibility of Brugia malayi and Onchocerca lienalis microfilariae to nitric oxide and hydrogen peroxide in cell-free culture and from IFN gamma-activated macrophages. Taylor MJ, et al. **Parasitology** 1996 Mar;112 (Pt 3):315–22

ENZYMOLOGY

Gene cloning and production of active recombinant Brugia malayi microfilarial chitinase. Southworth MW, et al. **Gene** 1996 Oct 24;177(1–2):55–8

Transglutaminase-catalyzed incorporation of host proteins in Brugia malayi microfilariae. Mehta K, et al. **Mol Biochem Parasitol** 1996 Feb–Mar;76(1–2):105–14

Expression of recombinant microfilarial chitinase and analysis of domain function. Venegas A, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):149–59

Heterologous expression of the cuticular-glutathione peroxidase of lymphatic filariae in an attenuated vaccine strain of Salmonella typhimurium abrogates H-2 restriction of specific antibody responses. Chacón MR, et al. **Parasite Immunol** 1996 Jun;18(6):307–16

GENETICS

Structure and expression of a novel filarial gene for glia maturation factor. Liu LX, et al. **Gene** 1997 Feb 20; 186(1):1–5

Differentially expressed, abundant trans-spliced cDNAs from larval Brugia malayi. Gregory WF, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):85–95

GROWTH & DEVELOPMENT

Growth of the human filarial parasite Brugia malayi in mice lacking major histocompatibility complex class II antigen expression. Rajan TV, et al. **Acta Trop** 1996 May; 61(3):267–71

Structure and expression of a novel filarial gene for glia maturation factor. Liu LX, et al. **Gene** 1997 Feb 20; 186(1):1–5

Antibodies to diethylcarbamazine potentiate the antifilarial activity of the drug. Mukhopadhyay S, et al. **Parasite Immunol** 1997 Apr;19(4):191–5

In vitro cultivation of third-stage larvae of Brugia malayi to the young adult stage. Falcone FH, et al. **Trop Med Parasitol** 1995 Dec;46(4):230–4

IMMUNOLOGY

Evaluation of recombinant chitinase and SXP1 antigens as antimicrofilarial vaccines. Wang SH, et al. **Am J Trop Med Hyg** 1997 Apr;56(4):474–81

Hemagglutinins in Anopheles quadrimaculatus, strains susceptible and refractory to Brugia malayi, and their role in the immune response to filarial parasites. Nayar JK, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):109–17

Stage-specific induction of cytokines regulates the immune response in lymphatic filariasis. Mahanty S, et al. **Exp Parasitol** 1996 Nov;84(2):282–90

Role of calcium influx & energy metabolism in histamine release by filarial antigen in Mastomys natalensis experimentally infected with Brugia malayi. Muralidhara P, et al. **Indian J Med Res** 1996 Apr;103:216–21

Regulation of parasite antigen-driven immune responses by interleukin-10 (IL-10) and IL-12 in lymphatic filariasis. Mahanty S, et al. **Infect Immun** 1997 May;65(5):1742–7

Cytostatic and cytotoxic effects of activated macrophages and nitric oxide donors on Brugia malayi. Thomas GR, et al. **Infect Immun** 1997 Jul;65(7):2732–9

APC from mice harbouring the filarial nematode, Brugia malayi, prevent cellular proliferation but not cytokine production. Allen JE, et al. **Int Immunol** 1996 Jan; 8(1):143–51

Selective usage of defined TCRBV genes in response to filarial antigens. Sartono E, et al. **Int Immunol** 1997 Jul; 9(7):955–62

Regulatory cytokines in the lymphatic pathology of athymic mice infected with Brugia malayi. Rao UR, et al. **Int J Parasitol** 1996 May;26(5):561–5

A major allergen of lymphatic filarial nematodes is a parasite homolog of the gamma-glutamyl transpeptidase. Lobos E, et al. **Mol Med** 1996 Nov;2(6):712–24

Heterologous expression of the cuticular-glutathione peroxidase of lymphatic filariae in an attenuated vaccine strain of Salmonella typhimurium abrogates H-2 restriction of specific antibody responses. Chacón MR, et al. **Parasite Immunol** 1996 Jun;18(6):307–16

Specific T cell unresponsiveness in human filariasis: diversity in underlying mechanisms. Sartono E, et al. **Parasite Immunol** 1995 Nov;17(11):587–94

Diagnostic potential of fractionated Brugia malayi microfilarial excretory/secretory antigen for bancroftian filariasis. Chenthamarakshan V, et al. **Trans R Soc Trop Med Hyg** 1996 May–Jun;90(3):252–4

ISOLATION & PURIFICATION

Cytomorphologic profile of lymphatic filariasis. Arora VK, et al. **Acta Cytol** 1996 Sep–Oct;40(5):948–52

Induction and prevention of shock-like lethal side effects after microfilaricidal treatment in filariae infected rodents. Zahner H. **Trop Med Parasitol** 1995 Dec;46(4):221–9

METABOLISM

Expression of the microfilarial sheath protein 2 (shp2) of the filarial parasites Litomosoides sigmodontis and Brugia malayi. Conraths FJ, et al. **Exp Parasitol** 1997 Mar; 85(3):241–8

PATHOGENICITY

Effects of Brugia malayi infection on the survival of

BRUGIA MALAYI

Anopheles sinensis. Jin LZ, et al.
Southeast Asian J Trop Med Public Health 1996 Mar; 27(1):149–53

PHYSIOLOGY

Genes expressed in Brugia malayi infective third stage larvae. Blaxter ML, et al. **Mol Biochem Parasitol** 1996 Apr; 77(1):77–93

Transglutaminase–catalyzed incorporation of host proteins in Brugia malayi microfilariae. Mehta K, et al.
Mol Biochem Parasitol 1996 Feb–Mar;76(1–2):105–14

ULTRASTRUCTURE

Brugia malayi: ultrastructural morphology of the cuticular surface membranes of adult parasites. Smith VP, et al.
Exp Parasitol 1996 Aug;83(3):304–13

Effect of Brugia malayi infections on endothelial cells: a morphological study. Rao UR, et al.
J Submicrosc Cytol Pathol 1996 Apr;28(2):227–41

BRUGIA PAHANGI

CHEMISTRY

Variation in the nature of attachment of phosphorylcholine to excretory–secretory products of adult Brugia pahangi. Nor ZM, et al. **Parasitology** 1997 Mar;114 (Pt 3):257–62

DRUG EFFECTS

In vivo effect of a natural Aedes aegypti defensin on Brugia pahangi development. Albuquerque CM, et al.
Med Vet Entomol 1996 Oct;10(4):397–9

ENZYMOLOGY

A cytidine deaminase expressed in the post–infective L3 stage of the filarial nematode, Brugia pahangi, has a novel RNA–binding activity. Anant S, et al.
Mol Biochem Parasitol 1997 Sep;88(1–2):105–14

Expression of recombinant microfilarial chitinase and analysis of domain function. Venegas A, et al.
Mol Biochem Parasitol 1996 Jun;78(1–2):149–59

GENETICS

Brugia pahangi: characterisation of a small heat shock protein cDNA clone. Thompson FJ, et al. **Exp Parasitol** 1996 Aug; 83(3):259–66

Erratum to "The construction of spliced leader cDNA libraries from the filarial nematode Brugia pahangi" [Mol. Biochem. Parasitol. 70 (1995) 241–245]. Martin SA, et al.
Mol Biochem Parasitol 1995 Dec;75(1):129

Stage specific gene expression in the post–infective L3 of the filarial nematode, Brugia pahangi. Martin SA, et al.
Mol Biochem Parasitol 1996 Jul;79(1):109–12

GROWTH & DEVELOPMENT

Stage specific gene expression in the post–infective L3 of the filarial nematode, Brugia pahangi. Martin SA, et al.
Mol Biochem Parasitol 1996 Jul;79(1):109–12

IMMUNOLOGY

Adoptive transfer of granulomatous inflammation to Brugia antigens in jirds. Klei TR, et al. **J Parasitol** 1997 Aug; 83(4):626–9

Acquisition and expression of humoral reactivity to antigens of infective stages of filarial larvae. Bailey JW, et al.
Parasite Immunol 1995 Dec;17(12):617–23

Brugia pahangi in cats: the passive transfer of anti–microfilarial immunity from immune to non–immune cats. Medeiros F, et al. **Parasite Immunol** 1996 Feb; 18(2):79–86

Suppression of mitogen–induced IL–2R alpha expression in PBL by serum from microfilaraemic rats chronically infected with Brugia pahangi. Satoh M, et al.
Parasitology 1997 Jan;114 (Pt 1):65–9

Down–regulation of murine susceptibility to cerebral malaria by inoculation with third–stage larvae of the filarial nematode Brugia pahangi. Yan Y, et al. **Parasitology** 1997 Apr;114 (Pt 4):333–8

Phenotypic segregation of Aedes aegypti for immune antibacterial activity and resistance to filariae. Ham PJ, et al. **Proc R Soc Lond B Biol Sci** 1996 Sep 22; 263(1374):1205–10

PHYSIOLOGY

Brugia pahangi: differential induction and regulation of jird inflammatory responses by life–cycle stages. Nasarre C, et al. **Exp Parasitol** 1997 Sep;87(1):20–9

BRUNEOMYCIN see **STREPTONIGRIN**

BRUNHILDE VIRUS see **POLIOVIRUSES, HUMAN 1–3**

BRUNNER'S GLANDS

The endoscopic ultrasonographic appearance of Brunner's gland hamartoma. Weisselberg B, et al.
Gastrointest Endosc 1997 Aug;46(2):176–8

[Hamartoma of Brunner's glands. Report of two cases] Lavoine E, et al. **Ann Pathol** 1996;16(3):196–9 (Eng. Abstr.) **(Fre)**

[Large Brunner's adenoma of the duodenal bulb—a case report] Rhiner R, et al. **Swiss Surg** 1997;3(1):13–6 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Immunocytochemical demonstration that human duodenal Brunner's glands may participate in intestinal defence. Coutinho HB, et al. **J Anat** 1996 Aug;189 (Pt 1):193–7

PATHOLOGY

A case of Brunner's gland hyperplasia: endoscopic color Doppler ultrasonographic findings. Ueno N, et al.
Endoscopy 1997 Jan;29(1):51

SURGERY

Laparoscopically treated duodenal hamartoma of Brunner's glands. Adell–Carceller R, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):298–300

BRUSH BORDER see **MICROVILLI**

BRUXISM

An overview of bruxism and its management. Attanasio R. **Dent Clin North Am** 1997 Apr;41(2):229–41 (91 ref.)

CHEMICALLY INDUCED

Possible paroxetine–induced bruxism. Romanelli F, et al.
Ann Pharmacother 1996 Nov;30(11):1246–8

Bruxism secondary to antipsychotic drug exposure: a positive response to propranolol. Amir I, et al.
Clin Neuropharmacol 1997 Feb;20(1):86–9

COMPLICATIONS

Occlusal variables, bruxism and temporomandibular disorders: a clinical and kinesiographic assessment. Tsolka P, et al. **J Oral Rehabil** 1995 Dec;22(12):849–56

The incidence of parasomnias in child bruxers versus nonbruxers. Weideman CL, et al. **Pediatr Dent** 1996 Nov–Dec;18(7):456–60

DIAGNOSIS

A new method for recording mandibular position during nocturnal bruxism. Akamatsu Y, et al. **J Oral Rehabil** 1996 Sep;23(9):622–6

Reported symptoms and clinical findings in a group of subjects with longstanding bruxing behaviour. Kampe T, et al. **J Oral Rehabil** 1997 Aug;24(8):581–7

DRUG THERAPY

Bruxism secondary to antipsychotic drug exposure: a positive response to propranolol. Amir I, et al.
Clin Neuropharmacol 1997 Feb;20(1):86–9

Effects of the D2 receptor agonist bromocriptine on sleep bruxism: report of two single–patient clinical trials. Lobbezoo F, et al. **J Dent Res** 1997 Sep;76(9):1610–4

The effect of catecholamine precursor L–dopa on sleep bruxism: a controlled clinical trial. Lobbezoo F, et al.
Mov Disord 1997 Jan;12(1):73–8

ETIOLOGY

Cigarette smoking as a risk factor or an exacerbating factor for restless legs syndrome and sleep bruxism. Lavigne GL, et al. **Sleep** 1997 Apr;20(4):290–3

[Bruxism in children: a warning sign? (letter)] Delgado Jiménez MC, et al. **Aten Primaria** 1996 Feb 15;17(2):172–3 **(Spa)**

METABOLISM

Striatal D2 receptor binding in sleep bruxism: a controlled study with iodine–123–iodobenzamide and single–photon–emission computed tomography. Lobbezoo F, et al. **J Dent Res** 1996 Oct;75(10):1804–10

PHYSIOPATHOLOGY

Characterization of brux–like movements in the laboratory rat by optoelectronic mandibular tracking and electromyographic techniques. Byrd KE.
Arch Oral Biol 1997 Jan;42(1):33–43

The effect of propranolol on sleep bruxism: hypothetical considerations based on a case study. Sjöholm TT, et al.
Clin Auton Res 1996 Feb;6(1):37–40

Impact of nocturnal bruxism on mercury uptake from dental amalgams. Isacsson G, et al. **Eur J Oral Sci** 1997 Jun; 105(3):251–7

Motor activity in sleep bruxism with concomitant jaw muscle pain. A retrospective pilot study. Lavigne GJ, et al.
Eur J Oral Sci 1997 Feb;105(1):92–5

PSYCHOLOGY

Personality traits in a group of subjects with long–standing bruxing behaviour. Kampe T, et al. **J Oral Rehabil** 1997 Aug;24(8):588–93

BRYOZOA

CHEMISTRY

Antineoplastic agents. 340. Isolation and structural elucidation of bryostatins 16–18. Pettit GR, et al.
J Nat Prod 1996 Mar;59(3):286–9

GENETICS

Temporal patterns of clonality and parasitism in a population of freshwater bryozoans. Vernon JG, et al.
Proc R Soc Lond B Biol Sci 1996 Oct 22;263(1375):1313–8

BUBONIC PLAGUE see **PLAGUE**

BUCCA see **CHEEK**

BUCCAL MUCOSA see **MOUTH MUCOSA**

BUCHU RESIN see **DIOSMIN**

BUCKTHORN see **RHAMNUS**

BUCLADESINE

Development of new wound dressing composed of spongy collagen sheet containing dibutyryl cyclic AMP. Shibata H, et al. **J Biomater Sci Polym Ed** 1997;8(8):601–21

PHARMACOLOGY

Na+/glucose cotransport in the colonic adenocarcinoma cell line HT29 cl.19A: effect of cAMP. Hemlin M, et al.
Acta Physiol Scand 1997 Jun;160(2):185–94

cAMP–dependent sulfate secretion by the rabbit distal colon: a comparison with electrogenic chloride secretion. Freel RW, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C148–60

Cyclic AMP–dependent phosphorylation and regulation of the cardiac dihydropyridine–sensitive Ca channel. Yoshida A, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:365–7

Cytotoxic effect of dibutyryl cAMP, phorbol–12–myristate–13–acetate and lipopolysaccharide, but not interferon–gamma, on promonocytic cell lines in vitro. Hetland G. **Anticancer Drugs** 1997 Jul;8(6):618–22

Enhancement of gap junctional intercellular communication by dibutyryl cyclic AMP in lung epithelial cells. Banoub RW, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3715–9

Adenosine 3',5'–cyclic monophosphate mimics the inhibitory effect of high glucose on MAP kinase phosphorylation in rat mesangial cells. Matsuo H, et al.
Biochem Biophys Res Commun 1996 Sep 24;226(3):746–54

Induction of CYP1A1 by beta–naphthoflavone in IEC–18 rat intestinal epithelial cells and potentiation of induction by dibutyryl cAMP. Zhang QY, et al.
Biochem Biophys Res Commun 1997 Apr 28;233(3):623–6

Interleukin 1 beta and cAMP trigger the expression of GTP cyclohydrolase I in rat renal mesangial cells. Plüss C, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):665–71

Cyclic AMP potentiates the induction of Thy–1 mRNA expression in murine B cells. Kuzin II, et al.
Biochem Soc Trans 1997 May;25(2):163S

Expression of constructs between the glucose–6–phosphatase promoter and a reporter gene in an insulinoma cell line: regulation by glucose, dibutyryl cAMP and dexamethasone. Schmoll D, et al. **Biochem Soc Trans** 1997 May;25(2):180S

A cyclic AMP analog and high potassium prevent the death of cultured septal cholinergic neurons after nerve growth factor withdrawal. Takadera T, et al. **Biol Pharm Bull** 1996 Jan;19(1):24–8

Synchronization of meiosis in porcine oocytes by exposure to dibutyryl cyclic adenosine monophosphate improves developmental competence following in vitro fertilization. Funahashi H, et al. **Biol Reprod** 1997 Jul;57(1):49–53

Effect of dibutyryl cyclic AMP on axoplasmic transport in the hippocampus. Hashimoto Y, et al. **Brain Res** 1997 May 2;755(2):343–6

Cyclic AMP analogue as a triggering signal for the induction of nitric oxide synthesis in murine peritoneal macrophages. Park YC, et al. **Cell Immunol** 1997 Jul 10;179(1):41–7

Functional and structural assessment of intercellular communication. Increased conduction velocity and enhanced connexin expression in dibutyryl cAMP–treated cultured cardiac myocytes. Darrow BJ, et al. **Circ Res** 1996 Aug;79(2):174–83

Use of intracellular versus extracellular specific activities in calculation of glutamine metabolism in astrocytes: effect of dibutyryl cyclic AMP. Zielke HR, et al.
Dev Neurosci 1996;18(3):224–30

Activation of phospholipase D in FRTL–5 thyroid cells by forskolin and dibutyryl–cyclic adenosine monophosphate. Ginsberg J, et al. **Endocrinology** 1997 Sep;138(9):3645–51

Local exposure to salbutamol or Bt2 cyclic AMP inhibits pleural exudation and leukocyte influx caused by antigen in rats. Diaz BL, et al. **Eur J Pharmacol** 1996 Jan 25; 296(2):173–80

Density–dependent proliferation of adult rat hepatocytes in primary culture induced by epidermal growth factor is potentiated by cAMP–elevating agents. Kimura M, et al.
Eur J Pharmacol 1997 Apr 18;324(2–3):267–76

Modulation of alpha 6/beta 1 integrin expression during differentiation of F9 murine embryonal carcinoma cells to

parietal endoderm. Morini M, et al. **Exp Cell Res** 1997 May 1;232(2):304–12

From totipotent embryonic stem cells to spontaneously contracting smooth muscle cells: a retinoic acid and db–cAMP in vitro differentiation model. Drab M, et al. **FASEB J** 1997 Sep;11(11):905–15

Gastric GATA–6 DNA–binding protein: proteolysis induced by cAMP. Nakagawa R, et al. **FEBS Lett** 1997 May 26; 408(3):301–5

Pyruvate inhibition of pyruvate dehydrogenase kinase. Effects of progressive starvation and hyperthyroidism in vivo, and of dibutyryl cyclic AMP and fatty acids in cultured cardiac myocytes. Priestman DA, et al. **FEBS Lett** 1996 Sep 16;393(2–3):174–8

A retinoic acid/cAMP–responsive enhancer containing a cAMP responsive element is required for the activation of the mouse thrombomodulin–encoding gene in differentiating F9 cells. Niforas P, et al. **Gene** 1996 Oct 17;176(1–2):139–47

Dibutyryl cyclic AMP and inflammatory cytokines mediate C3 expression in Schwann cells. Dashiell SM, et al. **Glia** 1997 Aug;20(4):308–21

Effects of dibutyryl cAMP and bromodeoxyuridine on expression of N–acetylglucosaminyltransferases III and V in GOTO neuroblastoma cells. Ihara Y, et al. **Glycoconj J** 1995 Dec;12(6):787–94

Different effects of cyclic AMP and butyrate on eosinophilic differentiation, apoptosis and bcl–2 expression of a human eosinophilic leukemia cell line, EoL–1. Tai G, et al. **Hematol Oncol** 1996 Dec;14(4):181–92

Differential expression of protein kinase C isozymes and small GTP–binding proteins during HL60 cell differentiation by retinoic acid and cyclic AMP: relation with phospholipase D (PLD) activation. Nakashima S, et al. **Immunobiology** 1996–97;196(5):588–98

PGE1, dexamethasone, U–74389G, or Bt2–cAMP as an additive to promote protection by UW solution in I/R injury. Chiang CH, et al. **J Appl Physiol** 1997 Aug; 83(2):583–90

Effects of theophylline and dibutyryl–cAMP on adenosine receptors and heart rate in cultured cardiocytes. el–Ani D, et al. **J Basic Clin Physiol Pharmacol** 1996;7(4):347–62

Stabilization of acetylcholine receptors by exogenous ATP and its reversal by cAMP and calcium. O'Malley JP, et al. **J Cell Biol** 1997 Jul 14;138(1):159–65

Differential regulations of matrix metalloproteinases and tissue inhibitors of metalloproteinases in dermal fibroblasts by dibutyril cyclic AMP. Kuroda K, et al. **J Dermatol Sci** 1997 Aug;15(2):95–100

Effect of dibutyryl cyclic AMP on plasma renin activity in normal men and patients with primary aldosteronism. Fukuda N, et al. **J Endocrinol Invest** 1997 Jan;20(1):13–7

Effects of dibutyryl cyclic adenosine monophosphate on nucleolar organizer regions and epidermal growth factor receptor of Dunn osteosarcoma cells. Kanamori M, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):135–9

Potentiation of carbon tetrachloride–induced liver damage by dibutylyl–3',5'–cyclic AMP in unstarved rats. Irita K, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):658–61

Analysis of the rat clusterin gene promoter and cyclic AMP–regulated mRNA stability in testicular cells. Rosemblit N, et al. **J Mol Endocrinol** 1996 Jun;16(3):287–96

Enhanced expression of amyloid precursor protein in response to dibutyryl cyclic AMP is not mediated by the transcription factor AP–2. Bourbonnière M, et al. **J Neurochem** 1997 Mar;68(3):909–16

Chronic activation of the cyclic AMP signaling pathway promotes development and long–term survival of mesencephalic dopaminergic neurons. Michel PP, et al. **J Neurochem** 1996 Oct;67(4):1633–42

Transcriptional regulation of amyloid precursor protein during dibutyryl cyclic AMP–induced differentiation of NG108–15 cells. Shekarabi M, et al. **J Neurochem** 1997 Mar;68(3):970–8

Antagonistic effect of Na+ and Mg2+ on P2z purinoceptor–associated pores in dibutyryl cyclic AMP–differentiated NG108–15 cells. Song SL, et al. **J Neurochem** 1996 Oct;67(4):1694–701

Overexpression of adhesion molecule L1 in NG108–15 neuroblastoma X glioma hybrid cells enhances dibutyryl cyclic AMP–induced neurite outgrowth and functional synapse formation with myotubes. Zhong ZG, et al. **J Neurochem** 1997 Jun;68(6):2291–9

Reduction of the microglial cell number in rat primary glial cell cultures by exogenous addition of dibutyryl cyclic adenosine monophosphate. Dalmau I, et al. **J Neuroimmunol** 1996 Nov;70(2):123–9

Amelioration by cAMP of cephaloridine–induced injury in the porcine kidney cell line LLC–PK1. Kawai Y, et al. **Jpn J Pharmacol** 1996 Sep;72(1):67–70

ATP, thapsigargin and cAMP increase Ca2+ in rat hepatocytes by activating three different Ca2+ influx pathways. Ikari A, et al. **Jpn J Physiol** 1997 Apr; 47(2):235–9

In vitro and in vivo anti–leukemic efficacy of cyclic AMP modulating agents against human leukemic B–cell precursors. Myers DE, et al. **Leuk Lymphoma** 1996 Jul; 22(3–4):259–64

Age–dependent morphological changes in dBcAMP–treated astrocytes. Gicovate DG, et al. **Medicina (B Aires)** 1996; 56(4):389–92

Effects of caffeine and dbcAMP on zona pellucida penetration by epididymal spermatozoa of cynomolgus monkeys (Macaca fascicularis). Mahony MC, et al. **Mol Reprod Dev** 1996 Apr;43(4):530–5

Glutamine synthetase gene expression in a glioblastoma cell–line of clonal origin: regulation by dexamethasone and dibutyryl cyclic AMP. Arcuri C, et al. **Neurochem Res** 1995 Oct;20(10):1133–9

Induction of astrocyte argininosuccinate synthetase and argininosuccinate lyase by dibutyryl cyclic AMP and dexamethasone. Jackson MJ, et al. **Neurochem Res** 1996 Oct;21(10):1161–5

Differential effects of butyrate and dibutyryl cAMP on mRNA levels of muscarinic acetylcholine receptor subtypes expressed in neurohybrid cell lines. Fukamauchi F, et al. **Neurosci Lett** 1996 Jul 5;212(1):49–52

Nimodipine and nitrendipine inhibit N–type calcium channels in dibutyryl cAMP–differentiated neuroblastoma x glioma hybrid (NG 108–15) cells. Li SN, et al. **Neurosci Lett** 1997 Jul 18;230(2):85–8

Rp diastereomeric analogs of cAMP inhibit both cAMP– and cGMP–induced dilation of hamster mesenteric small arteries. Jackson WF. **Pharmacology** 1996 Apr;52(4):226–34

Dibutyryl cAMP improves systemic vasoconstriction caused by endotoxin in dogs. Yanase T, et al. **Shock** 1996 Apr; 5(4):284–8

Enhancement by dibutyryl cyclic AMP of voltage–dependent Ca2+ and K+ currents in the guinea–pig vas deferens. Ji JJ, et al. **Tohoku J Exp Med** 1996 Dec;180(4):347–58

[Dexamethasone and dibutyryl–cyclic AMP stimulates conversion of androstenedione in human blood lymphocytes] Bershtein LM, et al. **Dokl Akad Nauk** 1997 Jan;352(2):276–7 **(Rus)**

THERAPEUTIC USE

Dibutyryl cAMP prevents increased vascular permeability caused by air embolism in primary isolated rat lungs. Hsu K, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):802–6

Protective effects of dibutyryl cyclic AMP on acute hepatic failure in rats. Kasai S, et al. **J Surg Res** 1996 Nov; 66(1):75–80

BUDD–CHIARI SYNDROME see **HEPATIC VEIN THROMBOSIS**

BUDDHISM

Buddha [letter; comment] Stimler C. **Chest** 1997 Feb; 111(2):524–5. Comment on: Chest 1996 Jun;109(6):1415–6.

Teaching tips for clinical faculty from the Zen tradition. Neher JO, et al. **Fam Med** 1997 Jul–Aug;29(7):513–6

A view of death and dying among the Chinese and Japanese. Char DF, et al. **Hawaii Med J** 1996 Dec;55(12):286–90, 295

Buddhism, euthanasia and the sanctity of life. Perrett RW. **J Med Ethics** 1996 Oct;22(5):309–13

An east Asian perspective of mind–body [see comments] Nagatomo S, et al. **J Med Philos** 1996 Aug;21(4):439–66 (26 ref.). Comment in: J Med Philos 1996 Aug;21(4):357–73.

Wat Thamkrabok: a Buddhist drug rehabilitation program in Thailand. Barrett ME. **Subst Use Misuse** 1997 Mar; 32(4):435–59

HISTORY

Freud's deshi: the coming of psychoanalysis to Japan. Blowers GH, et al. **J Hist Behav Sci** 1997 Spring; 33(2):115–26

PSYCHOLOGY

Worry and intrinsic/extrinsic religious orientation among Buddhist (Thai) and Christian (Canadian) elderly persons. Tapanya S, et al. **Int J Aging Hum Dev** 1997;44(1):73–83

BUDGERIGAR FANCIER'S LUNG see **BIRD FANCIER'S LUNG**

BUDGERIGARS see **PARROTS**

BUDGETARY CONTROL see **BUDGETS**

BUDGETS

United States budget supports child health [news] Charatan FB. **BMJ** 1997 Aug 9;315(7104):331

Fundholders' prescribing costs: the first five years. Harris CM, et al. **BMJ** 1996 Dec 14;313(7071):1531–4

Allocating budgets for fundholding and prescribing [editorial] Majeed A. **BMJ** 1996 Nov 23;313(7068):1274–5

GP budget holding in New Zealand: lessons for Britain and elsewhere? [see comments] Malcolm L. **BMJ** 1997 Jun 28; 314(7098):1890–2. Comment in: BMJ 1997 Jun 28;314(7098):1844–5.

Year to end budget forecasting: income and expenditure. Pilkington S. **Br J Hosp Med** 1997 May 21–Jun 3; 57(10):527–30

Update on inflation of journal prices in the Brandon–Hill list of journals. Kronenfeld MR. **Bull Med Libr Assoc** 1996 Apr;84(2):260–3

Global budgets and excess demand for hospital care. Feldman R, et al. **Health Econ** 1997 Mar–Apr;6(2):187–96 (20 ref.)

Budget management. Hughes G. **J Accid Emerg Med** 1997 May;14(3):187–8

Budget cut for budget deficit versus beta–blocker for chronic heart failure [letter] Lee YC. **Md Med J** 1996 Feb;45(2):98

Issues for fundholding in Australian general practice [letter; comment] Duffy PJ. **Med J Aust** 1996 Oct 7;165(7):408. Comment on: Med J Aust 1996 Feb 19;164(4):215–9.

Cost–effectiveness analysis and budget constraints [letter; comment] Patton MF. **N Engl J Med** 1996 Nov 7; 335(19):1465; discussion 1466. Comment on: N Engl J Med 1996 May 2;334(18):1174–7.

Successful implementation of laboratory budget holding by Pegasus Medical Group. Kerr D, et al. **N Z Med J** 1996 Sep 13;109(1029):334–7

NIH asked to budget for flat funding for management costs [news] **Nature** 1996 Dec 12;384(6609):501

Congress vows to contest 'unacceptable' NIH plans [news] Wadman M. **Nature** 1997 Feb 13;385(6617):568

NIH backers take Clinton to task over impact of budget pact [news] Wadman M. **Nature** 1997 Jun 19;387(6635):745

Prescription drug budgets for physicians [editorial] D'Ambrosia R. **Orthopedics** 1997 Aug;20(8):673

AIDS: a justifiable share [news] Cohen J. **Science** 1997 Apr 18;276(5311):345

Congress readies injection of funds [news] Cohen J. **Science** 1997 Aug 8;277(5327):760

NIH leads research gains as Congress picks up pace [news] Lawler A, et al. **Science** 1997 Jul 25;277(5325):470–1

Gibbons warns of decline in R&D [news] Lawler A. **Science** 1996 Dec 13;274(5294):1830

Origins researchers win Gore's ear, not pocketbook [news] Lawler A. **Science** 1996 Dec 20;274(5295):2003

Lobbyists seek to reslice NIH's pie [news] Marshall E. **Science** 1997 Apr 18;276(5311):344–6

Senate bills back huge increases [news] Mervis J. **Science** 1997 Jan 31;275(5300):608

The influence of budget–holding on cost containment and work procedures in primary care clinics. Gross R, et al. **Soc Sci Med** 1996 Jul;43(2):173–86

Guidelines for budgeting biostatistics involvement in research projects. Lesser ML. **Stat Med** 1996 Oct 30;15(20):2127–33

[Prescribing practice for beta blockers at patient discharge to ambulatory care. A health care economic evaluation in a cardiology patient sample with special reference to drug budgeting] Weltermann B, et al. **Gesundheitswesen** 1997 Apr;59(4):258–61 (Eng. Abstr.) **(Ger)**

[Budget analysis in a burn center for severely burned patients] Liebau J, et al. **Unfallchirurg** 1996 Nov;99(11):875–9 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Policy. What a difference two years make. Meyer H. **Hosp Health Netw** 1997 Aug 5;71(15):78

Budget balance [news] Meyer H. **Hosp Health Netw** 1997 Jun 5;71(11):20, 22

Medicare reform should be more than federal budget reform—and it should be done soon [editorial] Swartz K. **Inquiry** 1997 Spring;34(1):5–7

Proposed 1998 federal budget abandons nurse education [news] **J Nurs Adm** 1997 Jun;27(6):3

Physician responses to global physician expenditure budgets in Canada: a common property perspective. Hurley J, et al. **Milbank Q** 1997;75(3):343–64

Clinton's 1997 budget includes small increases for research, cuts in funds for service programs [news] **Psychiatr Serv** 1996 May;47(5):548

[Pending EBM becomes effective 1 July 1997] Rüggeberg JA. **Chirurg** 1997 Feb;68(2):Suppl 48–52 **(Ger)**

[Evaluate your reimbursement distribution guidelines for legal conformity!] Dierks C. **Radiologe** 1997 Apr; 37(4):M47–8 **(Ger)**

[Where does the path of reimbursement politics lead?] Fischer J. **Radiologe** 1997 Apr;37(4):M49 **(Ger)**

ORGANIZATION & ADMINISTRATION

Programme budgeting and marginal analysis: a case study of maternity services. Ratcliffe J, et al. **J Public Health Med** 1996 Jun;18(2):175–82

TRENDS

Consolidation and downsizing: a new paradigm for clinical engineering [interview] Tanner LA, et al. **Biomed Instrum Technol** 1996 Nov–Dec;30(6):483–8

[Reimbursement budgets and treatment demands require cost saving—a short operations day as a possible solution in the hospital] Bergler W, et al. **Laryngorhinootologie** 1997 Apr;76(4):258–62 (Eng. Abstr.) **(Ger)**

[The problems of budget and insurance medicine] Brezgin VD. **Probl Sotsialnoi Gig Istor Med** 1996 Nov–Dec;(6):47–9 **(Rus)**

BUDR see **BROMODEOXYURIDINE**

BUERGER'S DISEASE see **THROMBOANGIITIS OBLITERANS**

BUFANOLIDES

ANALYSIS

Absence of tetrodotoxins in a captive–raised riparian frog,

BUFANOLIDES

Atelopus varius. Daly JW, et al. **Toxicon** 1997 May; 35(5):705–9

BLOOD

Plasma marinobufagenin–like and ouabain–like immunoreactivity during saline volume expansion in anesthetized dogs. Bagrov AY, et al. **Cardiovasc Res** 1996 Feb;31(2):296–305

Evidence for circulating bufenolide in a volume–expanded patient [letter] Wright DA, et al. **Lancet** 1997 Aug 9; 350(9075):409

CHEMISTRY

A novel bufadienolide, marinosin, in the skin of the giant toad, Bufo marinus. Matsukawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):249–54

IMMUNOLOGY

Endogenous marinobufagenin–like immunoreactive substance. A possible endogenous Na, K–ATPase inhibitor with vasoconstrictor activity. Bagrov AY, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):982–90

METABOLISM

Metabolism and disposition of kyushin, a drug containing senso (ch'an su). Shimizu Y, et al. **Am J Chin Med** 1996; 24(3–4):289–303

PHARMACOLOGY

Bcl–2 protein inhibits bufalin–induced apoptosis through inhibition of mitogen–activated protein kinase activation in human leukemia U937 cells. Watabe M, et al. **Cancer Res** 1997 Aug 1;57(15):3097–100

Treatment of U937 cells with bufalin induces the translocation of casein kinase 2 and modulates the activity of topoisomerase II prior to the induction of apoptosis. Watabe M, et al. **Cell Growth Differ** 1997 Aug;8(8):871–9

Neurospecificity of phyto–bufadienolides is not related to differences in Na+/K+ pump inhibition. Van der Walt JJ, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):201–11

Bufalin inhibits endothelial cell proliferation and angiogenesis in vitro. Lee DY, et al. **Life Sci** 1997;60(2):127–34

BUFEXAMAC

ADVERSE EFFECTS

Bufexamac is a frequent contact sensitizer. Kränke B, et al. **Contact Dermatitis** 1996 Jan;34(1):63–4

Epidemiological significance of bufexamac as a frequent and relevant contact sensitizer. Kränke B, et al. **Contact Dermatitis** 1997 Apr;36(4):212–5

BUFFALO, AMERICAN see **BISON**

BUFFALOES

Enteritis associated with Yersinia pseudotuberculosis infection in a buffalo. Hum S, et al. **Aust Vet J** 1997 Feb; 75(2):95–7

Vacuolating cytotoxic activity of Pasteurella multocida causing haemorrhagic septicaemia in buffalo and cattle. Shah NH, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):97–101

Buffalopox. Ramanan C, et al. **Int J Dermatol** 1996 Feb; 35(2):128–30

Chemical composition and energy content of buffalo milk. Spanghero M, et al. **J Dairy Res** 1996 Nov;63(4):629–33

Tuberculosis in buffaloes (Syncerus caffer) in the Kruger National Park: spread of the disease to other species. Keet DF, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):239–44

O come, let us wallow in glorious mud [letter; comment] Nalin DR. **Trans R Soc Trop Med Hyg** 1996 Nov–Dec; 90(6):717. Comment on: Trans R Soc Trop Med Hyg 1995 Jul–Aug;89(4):351–3.

Epidemiologic association between antibody titres against bovine virus diarrhoea virus, rinderpest disease virus and infectious bovine rhinotracheitis virus in a buffalo herd. Akhtar S, et al. **Trop Anim Health Prod** 1996 Aug; 28(3):207–12

Study of natural rotavirus infection in buffalo calves in Sri Lanka. Sunil–Chandra NP, et al. **Trop Anim Health Prod** 1995 Nov;27(4):221–4

Immunogenicity of outer membrane protein of Pasteurella multocida in buffalo calves. Pati US, et al. **Vet Microbiol** 1996 Oct;52(3–4):301–11

Anti–fecundity immunity to Schistosoma japonicum induced in Chinese water buffaloes (Bos buffelus) after vaccination with recombinant 26 kDa glutathione–S–transferase (reSjc26GST). Shuxian L, et al. **Vet Parasitol** 1997 Apr; 69(1–2):39–47

Infectivity assays of foot–and–mouth disease virus: contact transmission between cattle and buffalo (Bubalus bubalis) in the early stages of infection. Gomes I, et al. **Vet Rec** 1997 Jan 11;140(2):43–7

Pituitary and ovarian response to PMSG and GnRH of a gonadal dysgenetic buffalo. Singh C, et al. **Vet Rec** 1997 May 17;140(20):533

Observations on haemorrhagic septicaemia in Pakistan livestock. Sheikh MA, et al. **Zentralbl Veterinarmed [B]** 1996 Jul;43(5):293–304

[A comparative study on amino acids of guang horn, buffalo horn and cattle horn] Fan G, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Mar;21(3):139–41, 189 (Eng. Abstr.) **(Chi)**

BLOOD

A preliminary comparison of plasma fibrinogen concentrations, leukocyte numbers and erythrocyte sedimentation rate as non–specific indicators of inflammatory conditions in buffalo (Bubalis bubalis). Zargham Khan M, et al. **Vet Res Commun** 1997 May; 21(4):265–71

GENETICS

Genetic diversity of Asian water buffalo (Bubalus bubalis): microsatellite variation and a comparison with protein–coding loci. Barker JS, et al. **Anim Genet** 1997 Apr; 28(2):103–15

Genetic variation within and relationships among populations of Asian water buffalo (Bubalus bubalis). Barker JS, et al. **Anim Genet** 1997 Feb;28(1):1–13

Phylogenetic relationship among all living species of the genus Bubalus based on DNA sequences of the cytochrome b gene. Tanaka K, et al. **Biochem Genet** 1996 Dec; 34(11–12):443–52

Comparative FISH–mapping of villin (VIL) gene in river buffalo, sheep and goat chromosomes. Iannuzzi L, et al. **Chromosome Res** 1997 May;5(3):199–202

Chromosomal localization of alpha–galactosyltransferase 1 (GGTA1) and elongation factor 2 (EEF2) genes in river buffalo by FISH. Iannuzzi L, et al. **Chromosome Res** 1997 Jun;5(4):274–6

High–resolution FISH mapping of beta–defensin genes to river buffalo and sheep chromosomes suggests a chromosome discrepancy in ffttle standard karyotypes. Iannuzzi L, et al. **Cytogenet Cell Genet** 1996;75(1):10–3

FISH mapping of three bovine cosmids to cattle, goat, sheep and buffalo X chromosomes. Prakash B, et al. **Hereditas** 1997;126(2):115–9

Synteny mapping in river buffalo. El Nahas SM, et al. **Mamm Genome** 1996 Nov;7(11):831–4

[Polymorphism of the kappa–casein gene in populations of the subfamily Bovinae] Sulimova GE, et al. **Genetika** 1996 Nov;32(11):1576–82 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Skin hypersensitivity tests in buffaloes parasitized with Toxocara vitulorum. Starke WA, et al. **Vet Parasitol** 1996 Jun;63(3–4):283–90

METABOLISM

The epididymis of the prepubertal swamp buffalo (Bubalus bubalis): histochemistry of phosphatases. Ariyaratna HB, et al. **Anat Histol Embryol** 1996 Sep;25(3):161–5

Histone kinase activity of buffalo sperm chromatin. Mudgal P, et al. **Arch Androl** 1997 May–Jun;38(3):191–9

Buffalo (Bos buffali L.) chymosin purification and properties. Abdel Malak CA, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):57–62

Isolation, purification and properties of cathepsin B from buffalo liver. Salahuddin A, et al. **Indian J Biochem Biophys** 1996 Aug;33(4):292–7

Inhibin in individual buffalo ovarian follicles in relation to size. Palta P, et al. **Indian J Exp Biol** 1996 Jun;34(6):606–8

Studies on activation and inhibition of cathepsin B from buffalo liver. Salahuddin A, et al. **J Protein Chem** 1996 Jan;15(1):87–93

Pharmacokinetics of radiolabelled buffalo follicle–stimulating hormone (125I–buFSH) in female buffalo calves (Bubalus bubalis). Prakash N, et al. **J Vet Pharmacol Ther** 1996 Apr; 19(2):158–60

Electrophoretic detection of myeloperoxidase, protease, lactoferrin and lysozyme in buffalo polymorphonuclear granular acid extracts. Roy SC, et al. **Vet Res Commun** 1997 Jul;21(5):325–34

The effect of activation of granulocytes on enzyme release and hydrogen peroxide and superoxide production in buffaloes. Singh VK, et al. **Vet Res Commun** 1997 May; 21(4):241–7

MICROBIOLOGY

Isolation of Mycobacterium bovis from the water buffalo (Bubalus bubalis). Kanameda M, et al. **Trop Anim Health Prod** 1995 Nov;27(4):227–8

PARASITOLOGY

The trypanocidal Cape buffalo serum protein is xanthine oxidase. Muranjan M, et al. **Infect Immun** 1997 Sep; 65(9):3806–14

Sarcocystis buffalonis n.sp. (Protozoa: Sarcocystidae) from the water buffalo (Bubalus bubalis) in Vietnam. Huong LT, et al. **J Parasitol** 1997 Jun;83(3):471–4

Skin hypersensitivity tests in buffaloes parasitized with Toxocara vitulorum. Starke WA, et al. **Vet Parasitol** 1996 Jun;63(3–4):283–90

PHYSIOLOGY

In vitro maturation of buffalo oocytes: role of insulin and its interaction with gonadotrophins. Totey SM, et al. **J Reprod Fertil Suppl** 1996;50:113–9 (45 ref.)

An apparent effect of immunopotentiation during late gestation on the postpartum reproductive performance of Nili–Ravi buffaloes (Bubalus bubalis). Qureshi ZI, et al. **Vet Res Commun** 1997 Jul;21(5):375–80

VIROLOGY

Prevalence of antibodies to bluetongue, bovine herpesvirus 1 and bovine viral diarrhea/mucosal disease viruses in water buffaloes in Minas Gerais State, Brazil. Lage AP, et al. **Rev Elev Med Vet Pays Trop** 1996;49(3):195–7

BUFFERS

Buffer may be the critical factor in measurement of anti–prothrombin antibody on a gamma–ray–irradiated plate by enzyme–linked immunosorbent assay. Matsuda J, et al. **Am J Hematol** 1996 Dec;53(4):242–4

Tris–hydroxymethyl aminomethane and sodium bicarbonate to buffer metabolic acidosis in an isolated heart model. Sirieix D, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):957–63

Decrease in platelet, erythrocyte and lymphocyte acetylcholinesterase activities due to the presence of protease inhibitors in the storage buffer. Martín–Valmaseda EM, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):83–91

Inhibitory effect of internal sodium and Hepes on the voltage–dependent potassium conductance of rat Leydig cells. Desaphy JF, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):9–13

Effect of tris buffer on free cytosolic calcium in myocardial cells. Bjerneroth G, et al. **Crit Care Med** 1996 Oct; 24(10):1713–8

Reproducibility of polypeptide spot positions in two–dimensional gels run using carrier ampholytes in the isoelectric focusing dimension. Lopez MF, et al. **Electrophoresis** 1997 Mar–Apr;18(3–4):338–43

The effects of buffer ingestion on metabolic factors related to distance running performance. Potteiger JA, et al. **Eur J Appl Physiol** 1996;72(4):365–71

Buffers differentially alter the binding of [3H]rauwolscine and [3H]RX821002 to the alpha–2 adrenergic receptor subtypes. Deupree JD, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1215–27

Making and changing buffers. Doonan S. **Methods Mol Biol** 1996;59:103–13

Effect of phosphate concentration in buffered irrigating solutions on arterial thrombosis. Brown DM, et al. **Microsurgery** 1995;16(11):757–9

Theory and computer programs for calculating solution pH, buffer formula, and buffer capacity for multiple component system at a given ionic strength and temperature. Okamoto H, et al. **Pharm Res** 1997 Mar;14(3):299–302

Influence of alkaline buffers on cytoplasmic pH in myocardial cells exposed to hypoxia. Li YC, et al. **Resuscitation** 1997 Feb;34(1):71–7

[Shall we discontinue with buffer therapy in heart arrest?] Brattebø G, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10; 116(27):3211 **(Nor)**

[Out–of–hospital buffer therapy in heart arrest] Dybvik T, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10;116(27):3212–4 (Eng. Abstr.) **(Nor)**

BUFO see **BUFONIDAE**

BUFO ARENARUM

Ecotoxicity in the Reconquista River, province of Buenos Aires, Argentina: a preliminary study. Herkovits J, et al. **Environ Health Perspect** 1996 Feb;104(2):186–9

Growth hormone inhibits the hypophysectomy–induced expression of galanin in hypothalamic neurons of the toad (Bufo arenarum hensel). González Nicolini MV, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):323–32

Mitochondrial localization of 3 beta–hydroxysteroid dehydrogenase 5–ene isomerase in interrenals of the toad Bufo arenarum H. Pozzi AG, et al. **Gen Comp Endocrinol** 1996 Aug;103(2):176–81

ANATOMY & HISTOLOGY

Topographic differences in cell populations and insulin secretion in the endocrine pancreas of the toad Bufo arenarum. Francini F, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):346–55

EMBRYOLOGY

Expression of isoforms of the neural cell adhesion molecule (NCAM) and polysialic acid during the development of the Bufo arenarum olfactory system. Paz DA, et al. **Int J Dev Biol** 1995 Dec;39(6):1005–13

Differentiation of myoendocrine cardiac cells from presumptive heart mesoderm explants of Bufo arenarum. Ruiz GC, et al. **Int J Dev Biol** 1995 Dec;39(6):1033–9

Evidence for the presence and participation of 85–75 KDa extracellular matrix components in cell interactions of Bufo arenarum gastrulation. Genta SB, et al. **J Exp Zool** 1997 Feb 15;277(3):181–97

METABOLISM

Purification, characterization, and partial amino acid sequencing of an amphibian liver fatty acid binding protein. Schleicher CH, et al. **Biochem Cell Biol** 1996;74(1):109–15

Purification and partial biochemical characterization of an S-type lectin from blastula embryos of Bufo arenarum. Elola MT, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):175–82

Amphibian Bufo arenarum vitronectin-like protein: its localization during oogenesis. Aybar MJ, et al. **Int J Dev Biol** 1996 Oct;40(5):997–1008

PHYSIOLOGY

A technique for chronically recording the EKG of the lymph hearts in the toad Bufo arenarum (Hensel). Affanni JM, et al. **Biocell** 1997 Apr;21(1):91–4

Atrial natriuretic factor (ANF)-like immunoreactivity and secretory granules in internal gills tadpoles of South American toad Bufo arenarum (Hensel). Alonso D, et al. **Eur J Morphol** 1996 Nov;34(4):285–94

Topographic differences in cell populations and insulin secretion in the endocrine pancreas of the toad Bufo arenarum. Francini F, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):346–55

Spontaneous maturation in Bufo arenarum oocytes: participation of protein kinase C. Zelarayán L, et al. **Zygote** 1996 Nov;4(4):257–62

BUFO BUFO

Effective number of breeding adults in Bufo bufo estimated from age-specific variation at minisatellite loci. Scribner KT, et al. **Mol Ecol** 1997 Aug;6(8):701–12

EMBRYOLOGY

Amphibian embryo glutathione transferase: amino acid sequence and structural properties [letter] Sacchetta P, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):679–80

Composition of the excitatory drive during swimming in two amphibian embryos: Rana and Bufo. Perrins R, et al. **J Comp Physiol [A]** 1996 Oct;179(4):563–73

METABOLISM

Proton pump activity of mitochondria-rich cells. The interpretation of external proton-concentration gradients. Jensen LJ, et al. **J Gen Physiol** 1997 Jan;109(1):73–91

BUFO MARINUS

Effects of Bufo marinus skin toxins on human fetal extracorporeal blood vessels. Lim TH, et al. **Toxicon** 1997 Feb;35(2):293–304

ANATOMY & HISTOLOGY

Morphological features of the retinal pigment epithelium in the toad, Bufo marinus. Suleiman J, et al. **Anat Rec** 1997 Sep;249(1):128–34

BLOOD

Heterogeneity and lability of endogenous digitalis-like substances in the plasma of the toad, Bufo marinus. Butler VP Jr, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R325–32

GROWTH & DEVELOPMENT

Action of protein kinase A activators on the caudal neuromuscular junction of toad tadpoles, recorded on synaptic spots. Quiñonez M, et al. **Brain Res** 1996 Oct 21; 737(1–2):327–30

METABOLISM

Cloning of an aquaporin homologue present in water channel containing endosomes of toad urinary bladder. Siner J, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C372–81

POMC-related products in the intermediate pituitary of the amphibian, Bufo marinus: differential subcellular processing in the Golgi and secretory granules. Steveson TC, et al. **Peptides** 1996;17(3):425–34

The effect of galanin and galanin fragments on blood pressure in the Cane toad, Bufo marinus. Mahns DA, et al. **Regul Pept** 1996 Dec 17;67(3):153–62

Effect of three galanin antagonists on the pressor response to galanin in the Cane toad, Bufo marinus. Mahns DA, et al. **Regul Pept** 1996 Dec 17;67(3):163–8

Müller cells in the retina of the cane toad, Bufo marinus, express neuropeptide Y-like immunoreactivity. Zhu BS, et al. **Vis Neurosci** 1996 May–Jun;13(3):501–8

PARASITOLOGY

Oswaldocruzia venezuelensis sp. n. (Nematoda:Trichostrongylina, Molineoidea), a parasite of Bufo marinus from Venezuela. Ben Slimane B, et al. **Folia Parasitol (Praha)** 1996;43(4):297–300

PHYSIOLOGY

Direct measurement of flow from the posterior lymph hearts of hydrated and dehydrated toads (Bufo marinus). Jones JM, et al. **J Exp Biol** 1997 Jun;200 (Pt 11):1695–702

Mechanisms of tongue protraction and narial closure in the marine toad Bufo marinus. Nishikawa KC, et al. **J Exp Biol** 1996 Nov;199 (Pt 11):2511–29

Synaptic circuitry of neuropeptide-containing amacrine cells in the retina of the cane toad, Bufo marinus. Zhu BS, et al. **Vis Neurosci** 1995 Sep–Oct;12(5):919–27

BUFONIDAE

Treatment of toad venom poisoning with digoxin-specific Fab fragments [see comments] Brubacher JR, et al. **Chest** 1996 Nov;110(5):1282–8. Comment in: Chest 1996 Nov;110(5):1139–41.

Comparative biological activities of alpha-MSH antagonists in vertebrate pigment cells. Castrucci AM, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):410–6

Serotonin and N-acetylserotonin effects on pigment cells of the toad Bufo ictericus: pharmacological characterization of melatonin receptors. Filadelfi AM, et al. **Gen Comp Endocrinol** 1996 Aug;103(2):192–9

Lipidic characterization of full-grown amphibian oocytes and their plasma membrane-enriched fractions. Caldironi HA, et al. **Lipids** 1996 Jun;31(6):651–6

ANATOMY & HISTOLOGY

Ultrastructural study on thyroid glands of Bufo arenarum larvae kept in potassium perchlorate solution. Miranda LA, et al. **Biocell** 1996 Aug;20(2):147–53

CLASSIFICATION

Phylogenetic relationships among bufonoid frogs (Anura:Neobatrachia) inferred from mitochondrial DNA sequences. Ruvinsky I, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):533–47

EMBRYOLOGY

[Origin of the adenohypophysis and of the olfactory system in toads: demonstration by chimera method] Kawamura K, et al. **C R Seances Soc Biol Fil** 1996;190(2–3):311–6 (Eng. Abstr.) **(Fre)**

GENETICS

Alkaline single-cell gel (comet) assay and genotoxicity monitoring using two species of tadpoles. Ralph S, et al. **Environ Mol Mutagen** 1996;28(2):112–20

PCR primers for polymorphic microsatellite loci in the anuran amphibian Bufo calamita. Rowe G, et al. **Mol Ecol** 1997 Apr;6(4):401–2

Phylogenetic relationships among bufonoid frogs (Anura:Neobatrachia) inferred from mitochondrial DNA sequences. Ruvinsky I, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):533–47

GROWTH & DEVELOPMENT

Changes in thyroid hormone concentrations and total contents through ontogeny in three anuran species: evidence for daily cycles. Gancedo B, et al. **Gen Comp Endocrinol** 1997 Aug;107(2):240–50

IMMUNOLOGY

Structural characterization of an Lyt-2/3 homolog expressed on Bufo regularis lymphocytes. Negm HI, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):79–87

METABOLISM

A lethal cardiotoxic protein isolated from Bidder's organ of common Indian toad, Bufo melanostictus Schneider. Gomes A, et al. **Indian J Exp Biol** 1996 Mar;34(3):211–5

Bufo toads and bufotenine: fact and fiction surrounding an alleged psychedelic. Lyttle T, et al. **J Psychoactive Drugs** 1996 Jul–Sep;28(3):267–90 (750 ref.)

PARASITOLOGY

Spermatozoon and spermiogenesis in Mesocoelium monas (Platyhelminthes:Digenea): ultrastructure and epifluorescence microscopy of labelling of tubulin and nucleus. Iomini C, et al. **Folia Parasitol (Praha)** 1997; 44(1):26–32

PHYSIOLOGY

Effects of 2-deoxy-D-glucose and insulin on plasma glucose levels and behavioral thermoregulation of toads. Branco LG. **Am J Physiol** 1997 Jan;272(1 Pt 2):R1–5

BUFORMIN

ADVERSE EFFECTS

[Lactic acidosis and buformin (letter)] Blasco Navalpotro MA, et al. **Rev Clin Esp** 1996 Dec;196(12):880 **(Spa)**

PHARMACOLOGY

Increased alanine uptake and lipid synthesis from alanine in isolated hepatocytes of Wistar-Kyoto fatty rats: an inhibitory effect of biguanides. Mori K, et al. **Can J Physiol Pharmacol** 1997 Mar;75(3):179–84

BUFOTENIN

PHARMACOLOGY

Bufo toads and bufotenine: fact and fiction surrounding an alleged psychedelic. Lyttle T, et al. **J Psychoactive Drugs** 1996 Jul–Sep;28(3):267–90 (750 ref.)

POISONING

GC/MS comparison of the West Indian aphrodisiac "Love Stone" to the Chinese medication "chan su": bufotenine and related bufadienolides. Barry TL, et al. **J Forensic Sci** 1996 Nov;41(6):1068–73

BULBAR PALSY see **PARALYSIS, BULBAR**

BULBOURETHRAL GLANDS

Anterior urethral diverticulum produced by Cowper's gland duct cyst. Shintaku I, et al. **Int J Urol** 1996 Sep;3(5):412–3

Cowper's gland duct cyst in an adult male. Radiological and clinical aspects. Selli C, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):313–5

ABNORMALITIES

A study of the relationship between syringoceles and Cobb's collar. Dewan PA. **Eur Urol** 1996;30(1):119–24

PATHOLOGY

Diagnosis of Cowper's glands on prostate needle biopsy. Cina SJ, et al. **Am J Surg Pathol** 1997 May;21(5):550–5

Distinguishing Cowper's glands from neoplastic and pseudoneoplastic lesions of prostate: immunohistochemical and ultrastructural studies. Saboorian MH, et al. **Am J Surg Pathol** 1997 Sep;21(9):1069–74

PHYSIOLOGY

Collection of seasonally spermatozoa-rich semen by electroejaculation of laboratory woodchucks (Marmota monax), with and without removal of bulbourethral glands. Concannon P, et al. **Lab Anim Sci** 1996 Dec;46(6):667–75

RADIOGRAPHY

Imperforate syringoceles of the bulbourethral duct: appearance on urethrography, sonography, and CT. Merchant SA, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):823–4

ULTRASONOGRAPHY

Imperforate syringoceles of the bulbourethral duct: appearance on urethrography, sonography, and CT. Merchant SA, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):823–4

BULIMIA

Body dissatisfaction as a mediator of the relationship between dietary restraint and bulimic eating patterns. Ricciardelli LA, et al. **Appetite** 1997 Aug;29(1):43–54

Chronic fatigue syndrome and dieting disorders: diagnosis and management problems. Griffiths RA, et al. **Aust N Z J Psychiatry** 1996 Dec;30(6):834–8

Delayed detection of pregnancy in patients with anorexia nervosa: two case reports. Bonne OB, et al. **Int J Eat Disord** 1996 Dec;20(4):423–25

Anorexia nervosa and bulimia nervosa: sibling sex ratio and birth rank—a catchment area study. Britto DJ, et al. **Int J Eat Disord** 1997 May;21(4):335–40

Detecting and treating bulimia nervosa: how involved are family physicians? Bursten MS, et al. **J Am Board Fam Pract** 1996 Jul–Aug;9(4):241–8

Bulimic weight-loss behaviors in military versus civilian weight-management programs. Peterson AL, et al. **Mil Med** 1995 Dec;160(12):616–20

Assessment and treatment of binge-eating disorder. Devlin MJ. **Psychiatr Clin North Am** 1996 Dec;19(4):761–72 (53 ref.)

BLOOD

Low plasma cortisol in bulimia nervosa patients with reversed neurovegetative symptoms of depression. Levitan RD, et al. **Biol Psychiatry** 1997 Feb 1;41(3):366–8

Borderline personality, impulsiveness, and platelet monoamine measures in bulimia nervosa and recurrent suicidal behavior. Verkes RJ, et al. **Biol Psychiatry** 1996 Aug 1;40(3):173–80

Insulin response in bulimia nervosa as a marker of nutritional depletion. Russell J, et al. **Int J Eat Disord** 1996 Nov; 20(3):307–13

Endogenous codeine and morphine in anorexia and bulimia nervosa. Marrazzi MA, et al. **Life Sci** 1997;60(20):1741–7

Intravenous glucose tolerance test-derived glucose effectiveness in bulimia nervosa. Taniguchi A, et al. **Metabolism** 1997 May;46(5):484–6

Circadian variations in plasma ACTH, cortisol and beta-endorphin levels in normal-weight bulimic women. Vescovi PP, et al. **Neuropsychobiology** 1996;33(2):71–5

BULIMIA

CEREBROSPINAL FLUID

Significant reduction of post-lumbar puncture headaches by the use of a 29-gauge spinal needle. McConaha C, et al. **Biol Psychiatry** 1996 Jun 15;39(12):1058-60

CHEMICALLY INDUCED

Risperidone, weight gain, and bulimia nervosa [letter] Crockford DN, et al. **Can J Psychiatry** 1997 Apr; 42(3):326-7

CLASSIFICATION

Functional assessment and binge eating. A review of the literature and suggestions for future research. Lee MI, et al. **Behav Modif** 1997 Apr;21(2):159-71 (38 ref.)

An examination of subtype criteria for bulimia nervosa. Tobin DL, et al. **Int J Eat Disord** 1997 Sep;22(2):179-86

COMPLICATIONS

Binge eating onset in obese patients with binge eating disorder. Marcus MD, et al. **Addict Behav** 1995 Nov-Dec; 20(6):747-55

Comorbidity and binge eating disorder. Mitchell JE, et al. **Addict Behav** 1995 Nov-Dec;20(6):725-32 (39 ref.)

Myocardial infarction resulting from caffeine overdose in an anorectic woman. Forman J, et al. **Ann Emerg Med** 1997 Jan;29(1):178-80

Experiences of physical and sexual abuse in Australian general practice attenders and an eating disordered population. Brown L, et al. **Aust N Z J Psychiatry** 1997 Jun;31(3):398-404

Physiological effects of bulimia nervosa on the gastrointestinal tract. Anderson L, et al. **Can J Gastroenterol** 1997 Jul-Aug;11(5):451-9 (79 ref.)

Salivary factors in vomiting bulimics with and without pathological tooth wear. Milosevic A, et al. **Caries Res** 1996;30(5):361-6

Severe metabolic alkalosis corrected by hemodialysis [letter] Leblanc M, et al. **Clin Nephrol** 1997 Jul;48(1):65

Lifetime anxiety disorders in women with bulimia nervosa. Bulik CM, et al. **Compr Psychiatry** 1996 Sep-Oct; 37(5):368-74

A case of comorbid anorexia nervosa, bulimia nervosa, and Munchausen's syndrome. Bulik CM, et al. **Int J Eat Disord** 1996 Sep;20(2):215-8

Clinical features of binge eating disorder in type I diabetes: a case report. Mannucci E, et al. **Int J Eat Disord** 1997 Jan;21(1):99-102

Dental erosion, oral hygiene, and nutrition in eating disorders. Milosevic A, et al. **Int J Eat Disord** 1997 Mar; 21(2):195-9

Prospective study of outcome in bulimics as a function of Axis-II comorbidity: long-term responses on eating and psychiatric symptoms. Steiger H, et al. **Int J Eat Disord** 1996 Sep;20(2):149-61

Prevalence of eating disorders among Norwegian women and men in a psychiatric outpatient unit. Taraldsen KW, et al. **Int J Eat Disord** 1996 Sep;20(2):185-90

Obsessive compulsive comorbidity in the dieting disorders. Thornton C, et al. **Int J Eat Disord** 1997 Jan;21(1):83-7

Substance use among women with eating disorders. Wiederman MW, et al. **Int J Eat Disord** 1996 Sep; 20(2):163-8

The association between secondary amenorrhea and common eating disordered weight control practices in an adolescent population. Selzer R, et al. **J Adolesc Health** 1996 Jul; 19(1):56-61

Metabolic alkalosis and chronic renal failure in a bulimic patient [letter] Inui A, et al. **Nephron** 1997;76(3):362

Vulnerability to substance abuse in eating disorders. Kaye WH, et al. **NIDA Res Monogr** 1996;159:269-311; discussion 312-21

Comorbidity and outcome in eating disorders. Herzog DB, et al. **Psychiatr Clin North Am** 1996 Dec;19(4):843-59 (90 ref.)

Movement behaviour of patients with eating disorders and inflammatory bowel disease: a controlled study. Lausberg H, et al. **Psychother Psychosom** 1996;65(5):272-6

[Decompensated acute gastric dilatation caused by a bulimic attack in anorexia nervosa] Willeke F, et al. **Dtsch Med Wochenschr** 1996 Oct 4;121(40):1220-5 (Eng. Abstr.) **(Ger)**

[Voice disorder and bulimia] Lambeck W, et al. **HNO** 1997 Jan;45(1):36-9 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Introduction — binge eating: clinical and research directions. Marcus MD. **Addict Behav** 1995 Nov-Dec;20(6):691-3

Ten-year stability and predictive validity of five bulimia-related indicators. Joiner TE Jr, et al. **Am J Psychiatry** 1997 Aug;154(8):1133-8

Outcome in bulimia nervosa. Keel PK, et al. **Am J Psychiatry** 1997 Mar;154(3):313-21 (62 ref.)

Hormonal and subjective responses to intravenous meta-chlorophenylpiperazine in bulimia nervosa. Levitan RD, et al. **Arch Gen Psychiatry** 1997 Jun;54(6):521-7

Bulimia nervosa complicated by Barrett's esophagus and esophageal cancer. Navab F, et al. **Gastrointest Endosc** 1996 Oct;44(4):492-4 (15 ref.)

The superior mesenteric artery syndrome and acute gastric dilatation in eating disorders: a report of two cases and a review of the literature. Adson DE, et al. **Int J Eat Disord** 1997 Mar;21(2):103-14 (59 ref.)

The augmented platelet intracellular calcium response to serotonin in anorexia nervosa but not bulimia may be due to subsyndromal depression. Berk M, et al. **Int J Eat Disord** 1997 Jul;22(1):57-63

Selective processing of eating disorder relevant stimuli: does the Stroop Test provide an objective measure of bulimia nervosa? Black CM, et al. **Int J Eat Disord** 1997 Nov; 22(3):329-33

Discriminant function analysis of depressive symptoms in binge eating disorder, bulimia nervosa, and major depression. Crow SJ, et al. **Int J Eat Disord** 1996 May; 19(4):399-404

The nutrient intake of women with bulimia nervosa. Gendall KA, et al. **Int J Eat Disord** 1997 Mar;21(2):115-27

Appraisal and coping strategies in stressful situations: a comparison of individuals who binge eat and controls. Hansel SL, et al. **Int J Eat Disord** 1997 Jan;21(1):89-93

Global self-esteem as contingent on body satisfaction among patients with bulimia nervosa: lack of diagnostic specificity? Joiner TE Jr, et al. **Int J Eat Disord** 1997 Jan;21(1):67-76

Characterization of the "seasonal" bulimic patient. Levitan RD, et al. **Int J Eat Disord** 1996 Mar;19(2):187-92

Age of onset for binge eating: are there different pathways to binge eating? Spurrell EB, et al. **Int J Eat Disord** 1997 Jan;21(1):55-65

An examination of subtype criteria for bulimia nervosa. Tobin DL, et al. **Int J Eat Disord** 1997 Sep;22(2):179-86

The sexual experience of women diagnosed with anorexia nervosa or bulimia nervosa. Wiederman MW, et al. **Int J Eat Disord** 1996 Mar;19(2):109-18

Adolescent dieting: healthy weight control or borderline eating disorder? Patton GC, et al. **J Child Psychol Psychiatry** 1997 Mar;38(3):299-306

A two-factor model of dietary restraint. Ricciardelli LA, et al. **J Clin Psychol** 1997 Feb;53(2):123-31

Attachment processes in eating disorder and depression. Cole-Detke H, et al. **J Consult Clin Psychol** 1996 Apr; 64(2):282-90

Biases in the processing of different forms of threat in bulimic and comparison women. McManus F, et al. **J Nerv Ment Dis** 1996 Sep;184(9):547-54

Use of the MMPI-2 in the outpatient assessment of women with Anorexia Nervosa or Bulimia Nervosa. Pryor T, et al. **J Pers Assess** 1996 Apr;66(2):363-73

The hormonal response to intravenous 5-hydroxytryptophan in bulimia nervosa. Goldbloom DS, et al. **J Psychosom Res** 1996 Mar;40(3):289-97

Self-reports on the Eating Disorder Inventory by female aerobic instructors. Olson MS, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):1051-8

Initial assessment and early treatment options for anorexia nervosa and bulimia nervosa. Powers PS. **Psychiatr Clin North Am** 1996 Dec;19(4):639-55 (78 ref.)

Nutritional management of eating disorders. Rock CL, et al. **Psychiatr Clin North Am** 1996 Dec;19(4):701-13 (75 ref.)

The classification of bulimic eating disorders: a community-based cluster analysis study. Hay PJ, et al. **Psychol Med** 1996 Jul;26(4):801-12

Subclassifications in eating disorders and obesity: a comparative study of an Italian sample. Favaro A, et al. **Psychopathology** 1996;29(2):77-84

[Anorexia and bulimia nervosa] Csef H. **Internist (Berl)** 1997 Jul;38(7):721-31 (10 ref.) **(Ger)**

[Anorexia nervosa and bulimia nervosa in adolescence. Diagnosis, clinical findings, therapy] Lehmkuhl G. **Med Monatsschr Pharm** 1996 Sep;19(9):261-9 (39 ref.) **(Ger)**

[Comorbidity of schizophrenia and bulimic anorexia. A case with forensic implications] Joos A, et al. **Nervenarzt** 1997 May;68(5):417-20 (Eng. Abstr.) **(Ger)**

[Disorders of eating behavior--early detection and treatment possibilities in general practice] Buddeberg-Fischer B. **Schweiz Rundsch Med Prax** 1997 Jul 30;86(31-32):1209-12 (5 ref.) (Eng. Abstr.) **(Ger)**

[Obsessive-phobic disorders in anorexia and bulimia nervosa] Tsivil'ko MA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(3):16-9 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Marked symptom reduction in two women with bulimia nervosa treated with the testosterone receptor antagonist flutamide. Bergman L, et al. **Acta Psychiatr Scand** 1996 Aug;94(2):137-9

Treating binge eating problems in primary care. Carter JC, et al. **Addict Behav** 1995 Nov-Dec;20(6):765-72 (36 ref.)

Pharmacotherapy of bulimia nervosa and binge eating disorder. Walsh BT, et al. **Addict Behav** 1995 Nov-Dec; 20(6):757-64 (26 ref.)

High-dose naltrexone and liver function safety. Marrazzi MA, et al. **Am J Addict** 1997 Winter;6(1):21-9

d-fenfluramine treatment of binge eating disorder. Stunkard A, et al. **Am J Psychiatry** 1996 Nov;153(11):1455-9

Medication and psychotherapy in the treatment of bulimia nervosa. Walsh BT, et al. **Am J Psychiatry** 1997 Apr; 154(4):523-31

Fluvoxamine-clozapine dose-dependent interaction [letter] Markowitz JS, et al. **Can J Psychiatry** 1996 Dec; 41(10):670-1

Efficacy of methylphenidate in bulimia nervosa comorbid with attention-deficit hyperactivity disorder: a case report. Schweickert LA, et al. **Int J Eat Disord** 1997 Apr; 21(3):299-301

Paroxetine-induced anorexia in a patient with bulimia nervosa [letter; comment] Sagduyu K. **J Clin Psychiatry** 1997 May;58(5):220-1. Comment on: J Clin Psychiatry 1994 Mar;55(3):118-9.

Effects of fluvoxamine on depression, anxiety, and other areas of general psychopathology in bulimia nervosa. Fichter MM, et al. **Pharmacopsychiatry** 1997 May;30(3):85-92

Neurobiological and psychopharmacological basis in the therapy of bulimia and anorexia. Mauri MC, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Feb; 20(2):207-40 (119 ref.)

Integrating cognitive therapy and medications in treating bulimia nervosa. Crow SJ, et al. **Psychiatr Clin North Am** 1996 Dec;19(4):755-60 (15 ref.)

Medications in the treatment of eating disorders. Jimerson DC, et al. **Psychiatr Clin North Am** 1996 Dec;19(4):739-54 (112 ref.)

EPIDEMIOLOGY

Confronting a rising tide of eating disorders and obesity: treatment vs. prevention and policy. Battle EK, et al. **Addict Behav** 1996 Nov-Dec;21(6):755-65 (45 ref.)

Binge eating in ethnic minority groups. Smith DE. **Addict Behav** 1995 Nov-Dec;20(6):695-703 (45 ref.)

Risk factors for bulimia nervosa. A community-based case-control study. Fairburn CG, et al. **Arch Gen Psychiatry** 1997 Jun;54(6):509-17

Models to conceptualize risk factors for bulimia nervosa. Halmi KA. **Arch Gen Psychiatry** 1997 Jun;54(6):507-8 (19 ref.)

Assessing the prevalence of eating disorders in an Australian twin population. Wade T, et al. **Aust N Z J Psychiatry** 1996 Dec;30(6):845-51

The demand for eating disorder care. An epidemiological study using the general practice research database. Turnbull S, et al. **Br J Psychiatry** 1996 Dec;169(6):705-12

Impulsivity or comorbidity in bulimia nervosa. A controlled study of deliberate self-harm and alcohol and drug misuse in a community sample. Welch SL, et al. **Br J Psychiatry** 1996 Oct;169(4):451-8

Specific comorbidity between bulimia nervosa and personality disorders. Carroll JM, et al. **Int J Eat Disord** 1996 Mar;19(2):159-70

Comorbid bulimia nervosa and schizophrenia. Deckelman MC, et al. **Int J Eat Disord** 1997 Jul;22(1):101-5

Purging and nonpurging forms of bulimia nervosa in a community sample. Garfinkel PE, et al. **Int J Eat Disord** 1996 Nov;20(3):231-8

Eating disorders and weight concern among lesbians. Heffernan K. **Int J Eat Disord** 1996 Mar;19(2):127-38

Psychiatric disorders in women with bulimia nervosa and their first-degree relatives: effects of comorbid substance dependence. Lilenfeld LR, et al. **Int J Eat Disord** 1997 Nov;22(3):253-64

Bulimia nervosa in Austria and the United States: a controlled cross-cultural study. Mangweth B, et al. **Int J Eat Disord** 1996 Nov;20(3):263-70

The branched eating disorders test: validity in a nonclinical population. Selzer R, et al. **Int J Eat Disord** 1996 Jul; 20(1):57-64

Eating disorders in adolescence in a Swiss epidemiological study. Steinhausen HC, et al. **Int J Eat Disord** 1997 Sep; 22(2):147-51

The significance of a prior history of anorexia in bulimia nervosa. Sullivan PF, et al. **Int J Eat Disord** 1996 Nov; 20(3):253-61

Correlates of severity in bulimia nervosa. Sullivan PF, et al. **Int J Eat Disord** 1996 Nov;20(3):239-51

Axis II comorbidity and developmental adversity in bulimia nervosa. Steiger H, et al. **J Nerv Ment Dis** 1996 Sep; 184(9):555-60

ETHNOLOGY

Racial differences in bulimic behaviors among high school females. Field AE, et al. **Ann N Y Acad Sci** 1997 May 28;817:359-60

A comparison of psychopathology in eating disorder patients from France and the United States. Hurt SW, et al. **Int J Eat Disord** 1997 Sep;22(2):153-8

ETIOLOGY

Psychological factors in the etiology of binge eating. Striegel-Moore R. **Addict Behav** 1995 Nov-Dec; 20(6):713-23 (89 ref.)

Functional assessment and binge eating. A review of the literature and suggestions for future research. Lee MI, et al. **Behav Modif** 1997 Apr;21(2):159-71 (38 ref.)

Individual psychopathology relative to reports of unwanted sexual experiences as predictor of a bulimic eating pattern. Casper RC, et al. **Int J Eat Disord** 1997 Apr;21(3):229-36

The National Women's Study: relationship of victimization and posttraumatic stress disorder to bulimia nervosa. Dansky BS, et al. **Int J Eat Disord** 1997 Apr;21(3):213-28

The role of tumor necrosis factor-alpha in the pathogenesis of anorexia and bulimia nervosa, cancer cachexia and obesity. Holden RJ, et al. **Med Hypotheses** 1996 Dec; 47(6):423-38 (148 ref.)

Is there a specific trauma precipitating anorexia nervosa?

Schmidt U, et al. **Psychol Med** 1997 May;27(3):523–30
Life events and the onset of bulimia nervosa: a controlled study. Welch SL, et al. **Psychol Med** 1997 May;27(3):515–22

GENETICS

Bulimia nervosa and substance dependence: association and family transmission. Kaye WH, et al.
Alcohol Clin Exp Res 1996 Aug;20(5):878–81

HISTORY

Were the Roman emperors Claudius and Vitellius bulimic? Crichton P. **Int J Eat Disord** 1996 Mar;19(2):203–7
Bulimia: a historical outline. Ziolko HU.
Int J Eat Disord 1996 Dec;20(4):345–58 (90 ref.)

IMMUNOLOGY

Evaluation of nutritional status by immunologic assessment in bulimia nervosa: influence of body mass index and vomiting episodes. Marcos A, et al. **Am J Clin Nutr** 1997 Aug;66(2):491S–497S

METABOLISM

Metabolic determinants of binge eating. Drewnowski A.
Addict Behav 1995 Nov–Dec;20(6):733–45 (62 ref.)
Biological correlates of binge eating. Yanovski SZ.
Addict Behav 1995 Nov–Dec;20(6):705–12 (52 ref.)
Postprandial cholecystokinin release and gastric emptying in patients with bulimia nervosa. Devlin MJ, et al.
Am J Clin Nutr 1997 Jan;65(1):114–20
High resting energy expenditure in normal-weight bulimics and its normalization with control of eating behaviour. Léonard T, et al. **Appetite** 1996 Dec;27(3):223–33

PHYSIOPATHOLOGY

Common biological pathways in eating disorders and obesity. Ericsson M, et al. **Addict Behav** 1996 Nov–Dec; 21(6):733–43 (65 ref.)
Postprandial cholecystokinin release and gastric emptying in patients with bulimia nervosa. Devlin MJ, et al.
Am J Clin Nutr 1997 Jan;65(1):114–20
Patterns of esophageal motility in patients with stable bulimia. Nickl NJ, et al. **Am J Gastroenterol** 1996 Dec;91(12):2544–7
Persistent alterations in behavior and serotonin activity after recovery from anorexia and bulimia nervosa. Kaye WH. **Ann N Y Acad Sci** 1997 May 28;817:162–78 (139 ref.)
Salivary reactivity in restrained and unrestrained eaters and women with bulimia nervosa. Bulik CM, et al. **Appetite** 1996 Aug;27(1):15–24
Decreased serotonin function in bulimia nervosa. Jimerson DC, et al. **Arch Gen Psychiatry** 1997 Jun;54(6):529–34
Cognitive content specificity in selective attention across four domains of maladjustment. Westra HA, et al.
Behav Res Ther 1997 Apr;35(4):349–65
Brain hypometabolism of glucose in bulimia nervosa. Delvenne V, et al. **Int J Eat Disord** 1997 May;21(4):313–20
Possible acceleration of alcoholic cirrhosis in a patient with bulimia. Platis IE, et al. **Int J Eat Disord** 1996 Dec; 20(4):439–42
Psychophysiological responses to food exposure: an experimental study in binge eaters. Vögele C, et al.
Int J Eat Disord 1997 Mar;21(2):147–57
Does right parietal cortex and vestibular dysfunction underlie body image distortion? [letter; comment] Tomasino SJ.
J Nerv Ment Dis 1996 Dec;184(12):758. Comment on: J Nerv Ment Dis 1996 Apr;184(4):213–9.
Relationship between thresholds to thermally and to mechanically induced pain in patients with eating disorders and healthy subjects. de Zwaan M, et al. **Pain** 1996 Oct; 67(2–3):511–2
A direct measure of satiety disturbance in patients with bulimia nervosa. Kissileff HR, et al. **Physiol Behav** 1996 Oct;60(4):1077–85
Neurobiological and psychopharmacological basis in the therapy of bulimia and anorexia. Mauri MC, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Feb; 20(2):207–40 (119 ref.)
Thyroid function in bulimia nervosa. Altemus M, et al.
Psychoneuroendocrinology 1996 Apr;21(3):249–61
Differences in salivary habituation to palatable foods in bulimia nervosa patients and controls. Wisniewski L, et al. **Psychosom Med** 1997 Jul–Aug;59(4):427–33
[Enlargement of the parotid glands in bulimia nervosa and anorexia nervosa] Rzeczycki P, et al. **Otolaryngol Pol** 1996; 50(3):318–20 (Eng. Abstr.) **(Pol)**

PREVENTION & CONTROL

Are two interventions worse than none? Joint primary and secondary prevention of eating disorders in college females. Mann T, et al. **Health Psychol** 1997 May;16(3):215–25
A controlled study of trait narcissism in anorexia and bulimia nervosa. Steiger H, et al. **Int J Eat Disord** 1997 Sep; 22(2):173–8
Fluvoxamine in prevention of relapse in bulimia nervosa: effects on eating-specific psychopathology. Fichter MM, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):9–18

PSYCHOLOGY

Marked symptom reduction in two women with bulimia nervosa treated with the testosterone receptor antagonist flutamide. Bergman L, et al. **Acta Psychiatr Scand** 1996 Aug;94(2):137–9
Self-directed hostility and family functioning in normal-weight bulimics and overweight binge eaters. Friedman MA, et al. **Addict Behav** 1997 May–Jun; 22(3):367–75
Binge eating in ethnic minority groups. Smith DE.
Addict Behav 1995 Nov–Dec;20(6):695–703 (45 ref.)
Psychological factors in the etiology of binge eating. Striegel-Moore R. **Addict Behav** 1995 Nov–Dec; 20(6):713–23 (89 ref.)
Dissociative and hypnotic experiences in eating disorder patients: an exploratory study. Vanderlinden J, et al.
Am J Clin Hypn 1995 Oct;38(2):97–108
Bulimic purging through blood donation [letter] Ghadirian AM. **Am J Psychiatry** 1997 Mar;154(3):435–6
The self-schema model: a theoretical approach to the self-concept in eating disorders. Stein KF.
Arch Psychiatr Nurs 1996 Apr;10(2):96–109 (114 ref.)
Relation of dietary restraint to bulimic symptomatology: the effects of the criterion confounding of the Restraint Scale. Stice E, et al. **Behav Res Ther** 1997 Feb;35(2):145–52
Bodily shame in relation to abuse in childhood and bulimia: a preliminary investigation. Andrews B.
Br J Clin Psychol 1997 Feb;36 (Pt 1):41–9
Selective processing of three types of stimuli in eating disorders. Cooper M, et al. **Br J Clin Psychol** 1997 May; 36 (Pt 2):279–81
Impulsivity in disordered eating, affective disorder and substance use disorder. Bushnell JA, et al.
Br J Psychiatry 1996 Sep;169(3):329–33
Childhood sexual and physical abuse as risk factors for the development of bulimia nervosa: a community-based case control study [see comments] Welch SL, et al.
Child Abuse Negl 1996 Jul;20(7):633–42. Comment in: Child Abuse Negl 1996 Jul;20(7):621–2.
Truly late onset of eating disorders: a study of 11 cases averaging 60 years of age at presentation. Beck D, et al.
Int J Eat Disord 1996 Dec;20(4):389–95
Initial manifestations of disordered eating behavior: dieting versus binging. Bulik CM, et al. **Int J Eat Disord** 1997 Sep;22(2):195–201
Effect of mood and food cues on body image in women with bulimia and controls. Carter FA, et al.
Int J Eat Disord 1996 Jul;20(1):65–76
The nature and extent of body-image disturbances in anorexia nervosa and bulimia nervosa: a meta-analysis. Cash TF, et al. **Int J Eat Disord** 1997 Sep;22(2):107–25
Patterns of food selection during binges in women with binge eating disorder. Cooke EA, et al. **Int J Eat Disord** 1997 Sep;22(2):187–93
Serum electrolytes as markers of vomiting in bulimia nervosa. Crow SJ, et al. **Int J Eat Disord** 1997 Jan;21(1):95–8
Burned out binge eaters: a preliminary investigation. Eldredge KL, et al. **Int J Eat Disord** 1996 May;19(4):411–4
Purging and nonpurging forms of bulimia nervosa in a community sample. Garfinkel PE, et al.
Int J Eat Disord 1996 Nov;20(3):231–8
Use of aspirin to facilitate vomiting in a young woman with bulimia nervosa: a case report. Gordon J, et al.
Int J Eat Disord 1997 Mar;21(2):201–3
A comparison of psychopathology in eating disorder patients from France and the United States. Hurt SW, et al.
Int J Eat Disord 1997 Sep;22(2):153–8
Disordered eating and its psychosocial correlates among Chinese adolescent females in Hong Kong. Lee AM, et al. **Int J Eat Disord** 1996 Sep;20(2):177–83
Why is attendance variable at groups for women with bulimia nervosa? The role of eating psychopathology and other characteristics. McKisack C, et al. **Int J Eat Disord** 1996 Sep;20(2):205–9
Attachment disruption in anorexia nervosa and bulimia nervosa: a review of theory and empirical research. O'Kearney R. **Int J Eat Disord** 1996 Sep;20(2):115–27 (74 ref.)
A comparison of onset of binge eating versus dieting in the development of bulimia nervosa. Pederson Mussell M, et al. **Int J Eat Disord** 1997 May;21(4):353–60
"Recovered memory" therapy for eating disorders: implications of the Ramona verdict. Pope HG Jr, et al.
Int J Eat Disord 1996 Mar;19(2):139–45
Laxative abuse among women with eating disorders: an indication of psychopathology? Pryor T, et al.
Int J Eat Disord 1996 Jul;20(1):13–8
Body image assessment and treatment in controlled studies of eating disorders. Rosen JC. **Int J Eat Disord** 1996 Dec; 20(4):331–43 (80 ref.)
Familial eating concerns and psychopathological traits: causal implications of transgenerational effects. Steiger H, et al.
Int J Eat Disord 1996 Mar;19(2):147–57
Do emotional states influence binge eating in the obese? Telch CF, et al. **Int J Eat Disord** 1996 Nov;20(3):271–9
Social support in patients with anorexia nervosa and bulimia nervosa. Tiller JM, et al. **Int J Eat Disord** 1997 Jan; 21(1):31–8
Coping, sexual abuse, and compensatory behavior. Tobin DL, et al. **Int J Eat Disord** 1996 Sep;20(2):143–8
Bulimic psychopathology and attentional biases to ego threats among non-eating-disordered women. Waller G, et al.
Int J Eat Disord 1996 Sep;20(2):169–76
Cognitive avoidance of threat cues: association with Eating Disorder Inventory scores among a non-eating-disordered population. Waller G, et al. **Int J Eat Disord** 1997 Nov; 22(3):299–308
Multi-impulsivity among women with bulimia nervosa. Wiederman MW, et al. **Int J Eat Disord** 1996 Dec; 20(4):359–65
Body dissatisfaction and sexuality among women with bulimia nervosa. Wiederman MW, et al.
Int J Eat Disord 1997 May;21(4):361–5
The relationship between sexual abuse and eating pathology. Zlotnick C, et al. **Int J Eat Disord** 1996 Sep;20(2):129–34
Perfectionism, perceived weight status, and bulimic symptoms: two studies testing a diathesis-stress model. Joiner TE Jr, et al. **J Abnorm Psychol** 1997 Feb; 106(1):145–53
Restraint, dieting, and the continuum model of bulimia nervosa. Lowe MR, et al. **J Abnorm Psychol** 1996 Nov; 105(4):508–17
Performance variability as a new theoretical mechanism regarding eating disorders and cognitive processing. Ferraro FR, et al. **J Clin Psychol** 1997 Feb;53(2):117–21
Fluvoxamine in prevention of relapse in bulimia nervosa: effects on eating-specific psychopathology. Fichter MM, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):9–18
Attachment processes in eating disorder and depression. Cole-Detke H, et al. **J Consult Clin Psychol** 1996 Apr; 64(2):282–90
Structural analysis of families with a polydrug-dependent, bulimic, or normal adolescent daughter. Ratti LA, et al.
J Consult Clin Psychol 1996 Dec;64(6):1255–62
Relationship of social perceptions and self-concept in bulimia nervosa. Wonderlich S, et al. **J Consult Clin Psychol** 1996 Dec;64(6):1231–7
Measurement of nonclinical personality characteristics of women with anorexia nervosa or bulimia nervosa. Pryor T, et al. **J Pers Assess** 1996 Oct;67(2):414–21
Pain sensitivity, alexithymia, and depression in patients with eating disorders: are they related? de Zwaan M, et al.
J Psychosom Res 1996 Jul;41(1):65–70
Eating disorders associated with hyperemesis gravidarum [editorial] Lingam R, et al. **J Psychosom Res** 1996 Mar; 40(3):231–4 (21 ref.)
Emotions and cognitions associated with bingeing and weight control behavior in bulimia. Powell AL, et al.
J Psychosom Res 1996 Mar;40(3):317–28
Alexithymia in patients with eating disorders: an investigation using a new projective technique. Smith GJ, et al.
Percept Mot Skills 1997 Aug;85(1):247–56
Effects of fluvoxamine on depression, anxiety, and other areas of general psychopathology in bulimia nervosa. Fichter MM, et al. **Pharmacopsychiatry** 1997 May;30(3):85–92
Biological and psychological correlates of intermittent dieting behavior in young women. A model for bulimia nervosa. Laessle RG, et al. **Physiol Behav** 1996 Jul;60(1):1–5
Light therapy in bulimia nervosa: a double-blind, placebo-controlled study. Blouin AG, et al.
Psychiatry Res 1996 Feb 28;60(1):1–9
Psychopathology in obese subjects with and without binge-eating disorder and in bulimic subjects. Molinari E, et al. **Psychol Rep** 1997 Jun;80(3 Pt 2):1327–35
Characteristics of eating disorders among young ballet dancers. Abraham S. **Psychopathology** 1996;29(4):223–9
Levothyroxine abuse and bulimia nervosa. Crow S, et al.
Psychosomatics 1997 Mar–Apr;38(2):151–3
Temperament in juvenile eating disorders. Shaw RJ, et al.
Psychosomatics 1997 Mar–Apr;38(2):126–31
[Weight reduction in bulimia nervosa by abuse of thyroid hormones] Kornhuber J, et al. **Nervenarzt** 1996 Jul; 67(7):614–6 (Eng. Abstr.) **(Ger)**
[Childhood masturbation—a genetic viewpoint, especially in anorexia and bulimia nervosa] Binswanger R.
Psyche (Stuttg) 1996 Jul;50(7):644–70 (Eng. Abstr.) **(Ger)**
[Eating behavior abnormalities of psychosomatic origin in medical practice] Krylov VI, et al. **Klin Med (Mosk)** 1997; 75(3):44–6 (5 ref.) **(Rus)**

REHABILITATION

Intensive nutritional counselling in bulimia nervosa: a role for supplementation with fluoxetine? Beumont PJ, et al.
Aust N Z J Psychiatry 1997 Aug;31(4):514–24
Long-term follow-up of patient-reported family functioning in eating disorders after intensive day hospital treatment. Woodside DB, et al. **J Psychosom Res** 1996 Sep; 41(3):269–77
Treating eating-disorder patients in a managed care environment. Contemporary American issues and Canadian response. Kaye WH, et al. **Psychiatr Clin North Am** 1996 Dec;19(4):793–810 (18 ref.)

THERAPY

Treating binge eating problems in primary care. Carter JC, et al. **Addict Behav** 1995 Nov–Dec;20(6):765–72 (36 ref.)
Future directions in obesity and eating disorders. Foreyt JP, et al. **Addict Behav** 1996 Nov–Dec;21(6):767–78 (105 ref.)
Medication and psychotherapy in the treatment of bulimia nervosa. Walsh BT, et al. **Am J Psychiatry** 1997 Apr; 154(4):523–31
Outcome for patients with bulimia and breast hypertrophy after reduction mammaplasty. Kreipe RE, et al.
Arch Pediatr Adolesc Med 1997 Feb;151(2):176–80
Computerised psychoeducation for patients with eating

disorders. Andrewes DG, et al. **Aust N Z J Psychiatry** 1996 Aug;30(4):492–7

Treatment of bulimia nervosa: when CBT fails. Wilson GT. **Behav Res Ther** 1996 Mar;34(3):197–212 (103 ref.)

Salivary reactivity in women with bulimia nervosa across treatment. Bulik CM, et al. **Biol Psychiatry** 1996 Jun 15; 39(12):1009–12

Compliance with a self–care manual for bulimia nervosa: predictors and outcome. Troop N, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):435–8

To change or not to change—'how' is the question? Ward A, et al. **Br J Med Psychol** 1996 Jun;69 (Pt 2):139–46

An approach to planning services for bulimia nervosa [editorial] Treasure JL, et al. **Br J Psychiatry** 1996 Nov; 169(5):551–4 (19 ref.)

Anorexia nervosa and bulimia: psychiatric approach. Walsh BT. **Curr Ther Endocrinol Metab** 1997;6:18–21 (3 ref.)

Anorexia, bulimia, and exercise–induced amenorrhea: medical approach. Warren MP. **Curr Ther Endocrinol Metab** 1997;6:13–7 (9 ref.)

Group psychoeducation for bulimia nervosa with and without additional psychotherapy process sessions. Davis R, et al. **Int J Eat Disord** 1997 Jul;22(1):25–34

Low levels of interrater reliability in a standard measure of outcome in eating disorders (the modified Morgan–Russell Assessment Schedule). Freeman RK, et al. **Int J Eat Disord** 1996 Jul;20(1):51–6

Why is attendance variable at groups for women with bulimia nervosa? The role of eating psychopathology and other characteristics. McKisack C, et al. **Int J Eat Disord** 1996 Sep;20(2):205–9

Factors influencing the outcome of group psychotherapy for bulimia nervosa. McKisack C, et al. **Int J Eat Disord** 1997 Jul;22(1):1–13 (60 ref.)

The selectivity of inclusion and exclusion criteria in bulimia nervosa treatment studies. Mitchell JE, et al. **Int J Eat Disord** 1997 Nov;22(3):243–52

Research on the psychotherapy of bulimia nervosa: half empty or half full. Mitchell JE, et al. **Int J Eat Disord** 1996 Nov;20(3):219–29 (23 ref.)

Body image assessment and treatment in controlled studies of eating disorders. Rosen JC. **Int J Eat Disord** 1996 Dec; 20(4):331–43 (80 ref.)

Prospective study of outcome in bulimics as a function of Axis–II comorbidity: long–term responses on eating and psychiatric symptoms. Steiger H, et al. **Int J Eat Disord** 1996 Sep;20(2):149–61

Predictors of outcome for two treatments for bulimia nervosa: short and long–term. Turnbull SJ, et al. **Int J Eat Disord** 1997 Jan;21(1):17–22

Expressed emotion and the prediction of outcome in adolescent eating disorders. van Furth EF, et al. **Int J Eat Disord** 1996 Jul;20(1):19–31

Drop–out and failure to engage in individual outpatient cognitive behavior therapy for bulimic disorders. Waller G. **Int J Eat Disord** 1997 Jul;22(1):35–41

An evaluation of the efficacy of supervised cognitive behavioral self–help bulimia nervosa. Cooper PJ, et al. **J Psychosom Res** 1996 Mar;40(3):281–7

Integrating cognitive therapy and medications in treating bulimia nervosa. Crow SJ, et al. **Psychiatr Clin North Am** 1996 Dec;19(4):755–60 (15 ref.)

Initial assessment and early treatment options for anorexia nervosa and bulimia nervosa. Powers PS. **Psychiatr Clin North Am** 1996 Dec;19(4):639–55 (78 ref.)

Countertransference in the treatment of patients with eating disorders. Franko DL, et al. **Psychiatry** 1996 Spring; 59(1):108–16

[Structured day care therapy program for eating disorders] Gerlinghoff M, et al. **Psychother Psychosom Med Psychol** 1997 Jan;47(1):12–20 (Eng. Abstr.) **(Ger)**

[Therapeutic effects of the Feldenkrais method "awareness through movement" in patients with eating disorders] Laumer U, et al. **Psychother Psychosom Med Psychol** 1997 May;47(5):170–80 (Eng. Abstr.) **(Ger)**

[Eating disorders] Isenschmid Gerster B, et al. **Ther Umsch** 1997 Jul;54(7):410–2 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Changes in ultrasound appearance of the internal female genital organs during treatment for eating disorders. Andolf E, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 May; 73(1):49–53

BULIMIA NERVOSA see **BULIMIA**

BULINUS

A mistaken report of the occurrence in India of the freshwater snail Bulinus and its relation to transmission of Schistosoma. Brown DS. **Ann Trop Med Parasitol** 1997 Mar;91(2):225–7

DRUG EFFECTS

The interactive effect of some molluscicides on the inermediate host of human bilharziasis and their associated zoosporic fungi in the river Nile, Egypt. Badran RA. **Bull Soc Pathol Exot** 1996;89(3):227–31

GENETICS

Distribution and genetic diversity of Schistosoma haematobium within its bulinid intermediate hosts in Mali. Dabo A, et al. **Acta Trop** 1997 Jun 24;66(1):15–26

Variation within the internal transcribed spacer (ITS) of ribosomal DNA genes of intermediate snail hosts within the genus Bulinus (Gastropoda: Planorbidae). Stothard JR, et al. **Acta Trop** 1996 Mar;61(1):19–29

Population dynamics inferred from temporal variation at microsatellite loci in the selfing snail Bulinus truncatus. Viard F, et al. **Genetics** 1997 Jul;146(3):973–82

Molecular characterization of Bulinus globosus and B. nasutus on Zanzibar, and an investigation of their roles in the epidemiology of Schistosoma haematobium. Stothard IR, et al. **Trans R Soc Trop Med Hyg** 1997 May–Jun; 91(3):353–7

METABOLISM

Cockroach allatostatin–like immunoreactivity in the central nervous system of the freshwater snails Bulinus globosus (Planorbidae) and Stagnicola elodes (Lymnaeidae). Rudolph PH, et al. **Gen Comp Endocrinol** 1997 May; 106(2):241–50

PARASITOLOGY

Observations on compatibility between Bulinus truncatus and Schistosoma haematobium in the Senegal River Basin. Rollinson D, et al. **Ann Trop Med Parasitol** 1997 Jun; 91(4):371–8

Intraspecific variation in Schistosoma haematobium from Algeria. Kechemir N, et al. **J Helminthol** 1997 Mar; 71(1):29–33

A longifurcate distome cercaria from Bulinus truncatus snails in the Jordan Valley, Jordan. Saliba EK, et al. **Jpn J Med Sci Biol** 1996 Oct–Dec;49(5–6):201–7

PHYSIOLOGY

A semi–quantitative approach to the selection of appropriate candidate plant molluscicides—a South African application. Clark TE, et al. **J Ethnopharmacol** 1997 Mar; 56(1):1–13

The molluscicidal activity of Apodytes dimidiata E. Meyer ex Arn (Icacinaceae), Gardenia thunbergia L.f. (Rubiaceae) and Warburgia salutaris (Bertol. F.) Chiov. (Cannelaceae), three South African plants. Clark TE, et al. **J Ethnopharmacol** 1997 Mar;56(1):15–30

BULLA see **BLISTER**

BULLFROG see **RANA CATESBEIANA**

BULLOUS SKIN DISEASES see **SKIN DISEASES, VESICULOBULLOUS**

BUMETANIDE

ADMINISTRATION & DOSAGE

The benefit of low–dose dopamine during vigorous diuresis for congestive heart failure associated with renal insufficiency: does it protect renal function? Varriale P, et al. **Clin Cardiol** 1997 Jul;20(7):627–30

Role of duration of diuretic effect in preventing sodium retention. Ferguson JA, et al. **Clin Pharmacol Ther** 1997 Aug;62(2):203–8

Dose–ranging evaluation of bumetanide pharmacodynamics in critically ill infants. Sullivan JE, et al. **Clin Pharmacol Ther** 1996 Oct;60(4):424–34

ADVERSE EFFECTS

Severe musculoskeletal symptoms during continuous infusion of bumetanide. Howard PA, et al. **Chest** 1997 Feb; 111(2):359–64

CHEMISTRY

Stability of bumetanide in 5% dextrose injection. Cornish LA, et al. **Am J Health Syst Pharm** 1997 Feb 15;54(4):422–3

METABOLISM

Ion and bumetanide binding by the Na–K–Cl cotransporter. Importance of transmembrane domains. Isenring P, et al. **J Biol Chem** 1997 Sep 26;272(39):24556–62

What we have learned about bumetanide and the concept of multispecific bile acid/drug transporters from the liver. Petzinger E, et al. **J Hepatol** 1996;24 Suppl 1:42–6 (33 ref.)

PHARMACOKINETICS

Effect of food on the absorption of frusemide and bumetanide in man. McCrindle JL, et al. **Br J Clin Pharmacol** 1996 Dec;42(6):743–6

Analysis of the variability in the pharmacokinetics and pharmacodynamics of bumetanide in critically ill infants. Sullivan JE, et al. **Clin Pharmacol Ther** 1996 Oct; 60(4):414–23

Pharmacokinetics of bumetanide in critically ill infants. Sullivan JE, et al. **Clin Pharmacol Ther** 1996 Oct; 60(4):405–13

PHARMACOLOGY

Characterization of bumetanide–sensitive Na+ and K+ transport in rat skeletal muscle. Dørup I, et al. **Acta Physiol Scand** 1996 Oct;158(2):119–27

Energy requirement of sodium reabsorption in the thick ascending limb of Henle's loop in the dog kidney: effects of bumetanide and ouabain. Östensen J, et al. **Acta Physiol Scand** 1996 Jun;157(2):275–81

Cell volume in vascular smooth muscle is regulated by bumetanide–sensitive ion transport. Orlov SN, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1388–97

Most basal I(SC) in Calu–3 human airway cells is bicarbonate–dependent Cl– secretion. Singh M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L690–8

The influence of bumetanide on the membrane potential of mouse skeletal muscle cells in isotonic and hypertonic media. van Mil HG, et al. **Br J Pharmacol** 1997 Jan; 120(1):39–44

Analysis of the variability in the pharmacokinetics and pharmacodynamics of bumetanide in critically ill infants. Sullivan JE, et al. **Clin Pharmacol Ther** 1996 Oct; 60(4):414–23

Decrease of ischemic injury to the isolated perfused rat liver by loop diuretics. Fiegen RJ, et al. **Hepatology** 1997 Jun; 25(6):1425–31

Anterior segment physiology after bumetanide inhibition of Na–K–Cl cotransport. Gabelt BT, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1700–7

Expression of the bumetanide–sensitive Na–K–Cl cotransporter BSC2 is differentially regulated by fluid mechanical and inflammatory cytokine stimuli in vascular endothelium. Topper JN, et al. **J Clin Invest** 1997 Jun 15; 99(12):2941–9

Cross talk of bumetanide–sensitive and HCO3—dependent transporters activated by IBMX in renal epithelial A6 cells. Niisato N, et al. **J Membr Biol** 1997 May 1;157(1):53–61

Bumetanide–sensitive ion fluxes in vascular smooth muscle cells: lack of functional Na+, K+, 2 Cl– cotransport. Orlov SN, et al. **J Membr Biol** 1996 Sep;153(2):125–35

BUN see **BLOOD UREA NITROGEN**

BUNDLE–BRANCH BLOCK

Adenosine–sensitive bundle branch reentry. Rubenstein DS, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):80–8

Right bundle block in a patient with acute posterior myocardial infarction. Okabe M, et al. **Jpn Circ J** 1997 Jan;61(1):78–81

[Nonspecific intraventricular block] Hishida H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):451–4 (6 ref.) **(Jpn)**

[Right bundle branch block] Kasamatsu K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):231–3 (10 ref.) **(Jpn)**

[Left bundle branch block (complete, incomplete)] Ono S. **Ryoikibetsu Shokogun Shirizu** 1996;(12):285–7 (10 ref.) **(Jpn)**

[Bifascicular block, trifascicular block] Utsunomiya T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):428–31 (7 ref.) **(Jpn)**

CHEMICALLY INDUCED

Optimal control of intermittent normal conduction in a tachycardia–dependent right bundle branch block. Izumi K. **Mater Med Pol** 1996 Oct–Dec;28(4):141–8

COMPLICATIONS

Left bundle branch block pattern complicating the electrocardiographic evaluation of acute myocardial infarction. Brady WJ Jr, et al. **Acad Emerg Med** 1997 Jan; 4(1):56–62

New criteria for the diagnosis of healed inferior wall myocardial infarction in patients with left bundle branch block. Laham CL, et al. **Am J Cardiol** 1997 Jan 1; 79(1):19–22

Incidence and clinical relevance of the occurrence of bundle–branch block in patients treated with thrombolytic therapy. Newby KH, et al. **Circulation** 1996 Nov 15; 94(10):2424–8

Further characterization of the syndrome of right bundle branch block, ST segment elevation, and sudden cardiac death. Brugada J, et al. **J Cardiovasc Electrophysiol** 1997 Mar;8(3):325–31

Is the Brugada syndrome a distinct clinical entity? Scheinman MM. **J Cardiovasc Electrophysiol** 1997 Mar;8(3):332–6 (22 ref.)

Dobutamine thallium–201 myocardial SPECT in patients with left bundle branch block and normal coronary arteries. Caner B, et al. **J Nucl Med** 1997 Mar;38(3):424–7

Recent advances in the electrocardiographic diagnosis of myocardial infarction: left bundle branch block and pacing. Sgarbossa EB. **Pacing Clin Electrophysiol** 1996 Sep; 19(9):1370–9 (37 ref.)

[Bundle–branch reentry ventricular tachycardia induced by sinus beat] Morgera T, et al. **G Ital Cardiol** 1996 Nov; 26(11):1295–301 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Complete left bundle branch block with left QRS axis

deviation: defining its clinical importance. Parharidis G, et al. **Acta Cardiol** 1997;52(3):295–303

Case presentations and discussion. Heart disease. **Am J Cardiol** 1997 Mar 20;79(6A):20–6

Abnormal ventricular repolarization mimicking myocardial infarction after heterocyclic antidepressant overdose. Bolognesi R, et al. **Am J Cardiol** 1997 Jan 15;79(2):242–5

Rapid diagnosis of indwelling pulmonary artery catheter-induced ventricular arrhythmias by the characteristic left bundle branch block morphology and inferior frontal plane axis. Wang TD, et al. **Anaesth Intensive Care** 1997 Feb;25(1):77–9

Magnetocardiography in normal subjects and in patients with right bundle branch block. Verzola RM, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1327–31

A simplified method of recognizing anterior divisional blocks (hemiblocks): a hexaxial system approach. Constant J. **Cardiology** 1997 Mar–Apr;88(2):127–32

Incomplete bundle-branch block and ST-segment elevation: syndrome associated with sustained monomorphic ventricular tachycardia in patients with apparently normal heart. Brembilla-Perrot B, et al. **Clin Cardiol** 1997 Apr; 20(4):407–10

Abnormalities of the S-T segment--Part II. Hurst JW. **Clin Cardiol** 1997 Jul;20(7):595–600 (10 ref.)

Abnormal signal-averaged electrocardiograms in patients with incomplete right bundle-branch block. Manolis AS, et al. **Clin Cardiol** 1997 Jan;20(1):17–22

The RR index test for the differentiation of atrioventricular nodal block from His-Purkinje block during incremental atrial pacing in patients with bifascicular block. Englund A. **Eur Heart J** 1997 Feb;18(2):311–7

Defibrillation conundrum. Nikolic G. **Heart Lung** 1996 Nov–Dec;25(6):495–6

Left bundle branch block with ST segment elevation. Hancock EW. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):27–30

Body surface mapping criteria for diagnosis of left ventricular hypertrophy associated with complete right bundle branch block. Song Y, et al. **J Electrocardiol** 1996 Oct;29(4):279–88

ECG of the month. Genuine fakes. Wide-QRS tachycardia. Martinez-Lopez JI. **J La State Med Soc** 1996 Jul; 148(7):275–8

The value of an electrophysiological study in a clear-cut case. Geelen P, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 1):1643–5

[Fortuitous discovery of Brugada syndrome in an asymptomatic 70-year-old sportsman] Douard H, et al. **Ann Cardiol Angeiol (Paris)** 1996 Dec;45(10):577–80 (Eng. Abstr.) **(Fre)**

[What is your diagnosis? 3rd-degree AV block with right bundle branch block] Popova N. **Schweiz Rundsch Med Prax** 1996 Sep 3;85(36):1065–6 **(Ger)**

[Value of old and new electrocardiography criteria for differential diagnosis between ventricular tachycardia and supraventricular tachycardia with bundle branch block] Grimm W, et al. **Z Kardiol** 1996 Dec;85(12):932–42 (Eng. Abstr.) **(Ger)**

[Left anterior fascicular block, left posterior fascicular block, left septal fascicular block] Sakai T. **Ryoikibetsu Shokogun Shirizu** 1996;(12):282–4 (11 ref.) **(Jpn)**

[Left bundle branch block analysis by body surface mapping. Comparison with electrocardiographic and vectocardiographic findings] Pastore CA, et al. **Arq Bras Cardiol** 1996 May;66(5):253–6 (Eng. Abstr.) **(Por)**

[Sudden death in patient with right bundle branch block and persistent ST segment elevation] Villacorta H, et al. **Arq Bras Cardiol** 1996 Apr;66(4):229–31 (Eng. Abstr.) **(Por)**

[Right bundle-branch block, the elevation of the ST segment in V1 to V3 and sudden death: the diagnostic and therapeutic approach] Lorga Filho A, et al. **Rev Port Cardiol** 1997 May;16(5):443–7, 439 (14 ref.) (Eng. Abstr.) **(Por)**

[Clinical and electrocardiographic characteristics of masquerading bifascicular block] Gómez Barrado JJ, et al. **Rev Esp Cardiol** 1997 Feb;50(2):92–7 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

[The use of nitrates and slow calcium channel blockers in the treatment of patients with ischemic heart disease and disorders of intraventricular conduction] Vorob'ev LP, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):62–8 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Incidence and clinical relevance of the occurrence of bundle-branch block in patients treated with thrombolytic therapy. Newby KH, et al. **Circulation** 1996 Nov 15; 94(10):2424–8

ETIOLOGY

Spontaneous remission of left bundle branch block during anaesthesia. Garcia EJ, et al. **Anaesthesia** 1997 Jul; 52(7):684–7

Low myocardial temperatures are associated with postoperative conduction defects after coronary artery bypass surgery. Mustonen PK, et al. **Ann Chir Gynaecol** 1996;85(1):44–50

Exercise-induced left bundle branch block: a case report of false positive MIBI imaging and review of the literature. Munt B, et al. **Can J Cardiol** 1997 May;13(5):517–21 (14 ref.)

Incidence, clinical characteristics, and prognostic significance of right bundle-branch block in acute myocardial infarction: a study in the thrombolytic era. Melgarejo-Moreno A, et al. **Circulation** 1997 Aug 19; 96(4):1139–44

Intermittent left bundle branch block: what is the arrhythmia? Barold SS. **J Cardiovasc Electrophysiol** 1996 Oct; 7(10):1013–5

Functional bundle branch block as a delayed manifestation of retrograde concealment in the His-Purkinje system. Gonzalez-Zuelgaray J, et al. **J Cardiovasc Electrophysiol** 1996 Mar;7(3):248–58

Lyme myocarditis presenting as fascicular tachycardia with underlying complete heart block. Greenberg YJ, et al. **J Cardiovasc Electrophysiol** 1997 Mar;8(3):323–4

Transient right bundle branch block causing R wave attenuation postdefibrillation. Kam RM, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):130–1

[Chatergee syndrome and anesthesia. Apropos of a case] Le Marec C, et al. **Cah Anesthesiol** 1996;44(5):433–5 (Eng. Abstr.) **(Fre)**

GENETICS

Hereditary bundle branch defect: right bundle branch blocks of different causes have different morphologic characteristics. Stéphan E, et al. **Am Heart J** 1997 Feb; 133(2):249–56

MORTALITY

[2-year survival in persons with bundle branch block] Miljković D. **Srp Arh Celok Lek** 1996 Mar–Apr; 124(3–4):69–72 (Eng. Abstr.) **(Scc)**

PATHOLOGY

Scleroatrophy of the atrioventricular junctional specialized tissue (Lenegre-Lev Disease) in chronic chagas' heart disease. Ramos S, et al. **Acta Cardiol** 1995;50(6):483–7

Drowning of a girl with anomaly of the bundle of His and the right bundle branch. Stumpp JW, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):208–10

The syndrome of right bundle branch block, persistent ST segment elevation and sudden cardiac death. Which is the histological substrate? [letter] Morgera T, et al. **Eur Heart J** 1997 Jul;18(7):1190–1

PHYSIOPATHOLOGY

The signal-averaged electrocardiogram is of limited value in patients with bundle branch block and dilated cardiomyopathy in predicting inducible ventricular tachycardia or death. Brembilla-Perrot B, et al. **Am J Cardiol** 1997 Jan 15;79(2):154–9

Electrocardiographic abnormalities in right ventricular infarction associated with right bundle branch block. Chia BL, et al. **Can J Cardiol** 1997 Jun;13(6):615–7

Implantable cardioverter defibrillator oversensing during periods of rate-related bundle branch block. Coyne RF, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):807–11

A case of ventricular parasystole with high-grade exit block. Kuwabara T, et al. **J Cardiovasc Electrophysiol** 1996 Jul; 7(7):684–7

A preexcited left bundle branch block tachycardia: what is the tachycardia mechanism? Morady F. **J Cardiovasc Electrophysiol** 1997 Jun;8(6):722–5

Explain the change in PR Interval and bundle branch block pattern with comparably coupled atrial premature beats. Pavri BB, et al. **J Cardiovasc Electrophysiol** 1997 Feb; 8(2):237–9

Radiofrequency catheter ablation of idiopathic ventricular tachycardia originating in the anterior fascicle of the left bundle branch. Rodriguez LM, et al. **J Cardiovasc Electrophysiol** 1996 Dec;7(12):1211–6

Bundle branch reentry ventricular tachycardia with two distinct left bundle branch block morphologies. Wang CW, et al. **J Cardiovasc Electrophysiol** 1997 Jun;8(6):688–93

Idiopathic left ventricular tachycardia with left and right bundle branch block configurations. Zivin A, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):441–4

Transient disappearance of complete right bundle branch block (BBB) during exercise [letter; comment] Kinoshita S, et al. **J Electrocardiol** 1996 Jul;29(3):255–6. Comment on: J Electrocardiol 1995 Oct;28(4):323–6.

Improved ECG models for left ventricular mass adjusted for body size, with specific algorithms for normal conduction, bundle branch blocks, and old myocardial infarction. Rautaharju PM, et al. **J Electrocardiol** 1996;29 Suppl:261–9

Radiofrequency catheter ablation for ventricular tachycardia with a right bundle branch block pattern and left axis deviation. Goseki Y, et al. **Jpn Circ J** 1995 Dec; 59(12):829–32

The ventricular gradient and altered ventricular activation patterns. Shimizu Y, et al. **Jpn Heart J** 1997 May; 38(3):361–8

Integral curves and the variational principle of intermittent normal conduction in the tachycardia-dependent right bundle branch block. Izumi K. **Mater Med Pol** 1996 Apr–Jun;28(2):57–63

[The effects of a left bundle-branch block on ventricular repolarization dispersion] Calò L, et al. **Cardiologia** 1996 Nov;41(11):1073–7 (Eng. Abstr.) **(Ita)**

[Stress echocardiography with dobutamine in the identification of coronary disease in patients with left bundle branch block] Scandura S, et al. **Cardiologia** 1997 Jun;42(6):619–25 (Eng. Abstr.) **(Ita)**

[Electrophysiological analysis of atrioventricular and intraventricular conduction in bi- and tri-fascicular blocks] Ducceschi V 2nd, et al. **Minerva Cardioangiol** 1997 Mar; 45(3):87–93 (Eng. Abstr.) **(Ita)**

[Intraventricular conduction disturbance (IVCD), intraventricular aberrant conduction (IVAC)] Hirata T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):325–8 (11 ref.) **(Jpn)**

[Supernormal excitation and supernormal conduction] Kawara T, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (12):248–51 (7 ref.) **(Jpn)**

[Ventricular tachycardia with a QRS pattern of right bundle-branch block and left axis deviation] Satake S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):234–7 (19 ref.) **(Jpn)**

RADIONUCLIDE IMAGING

Left bundle branch block and coronary artery disease: accuracy of dipyridamole thallium-201 single-photon emission computed tomography in patients with exercise anteroseptal perfusion defects. Lebtahi NE, et al. **J Nucl Cardiol** 1997 Jul–Aug;4(4):266–73

Septal metabolic mismatch in LBBB [letter; comment] Burns RJ. **J Nucl Med** 1996 Nov;37(11):1918–9. Comment on: J Nucl Med 1995 Nov;36(11):2056–9.

Septal perfusion and wall thickening in patients with left bundle branch block assessed by technetium-99m-sestamibi gated tomography. Sugihara H, et al. **J Nucl Med** 1997 Apr;38(4):545–7

[Diagnosis using nuclear medicine of anterior descending artery stenosis in patients with left bundle branch block] Smanio PE, et al. **Arq Bras Cardiol** 1995 Nov;65(5):423–5 (Eng. Abstr.) **(Por)**

SURGERY

Radiofrequency catheter ablation of the left bundle branch in a canine model. Helguera ME, et al. **J Cardiovasc Electrophysiol** 1996 May;7(5):415–23

Transient complete heart block during radiofrequency ablation of a left lateral bypass tract. Stamato NJ, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1351–4

THERAPY

Evaluation of "inappropriate" ICD shocks in an asymptomatic patient following myocardial infarction. Ellenbogen KA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):254–5

Recent advances in the electrocardiographic diagnosis of myocardial infarction: left bundle branch block and pacing. Sgarbossa EB. **Pacing Clin Electrophysiol** 1996 Sep; 19(9):1370–9 (37 ref.)

ULTRASONOGRAPHY

Stress echocardiography in special groups: in women, in left bundle branch block, in hypertension and after heart transplantation. Schartl M, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D63–7 (24 ref.)

VETERINARY

ECG of the month. Left bundle branch block in a cat [see comments] Garrod L, et al. **J Am Vet Med Assoc** 1996 Jul 1;209(1):60–1. Comment in: J Am Vet Med Assoc 1996 Sep 15;209(6):1063–4.

BUNDLE OF HIS

Intraventricular conduction disturbances. Kelkar PN, et al. **J Assoc Physicians India** 1996 Jun;44(6):402–6 (14 ref.)

ABNORMALITIES

Drowning of a girl with anomaly of the bundle of His and the right bundle branch. Stumpp JW, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):208–10

ANATOMY & HISTOLOGY

Preliminary evaluation of the topography of the His bundle with regards to ablation procedures. Kołodziej P, et al. **Folia Morphol (Warsz)** 1996;55(4):338–40

PATHOLOGY

Scleroatrophy of the atrioventricular junctional specialized tissue (Lenegre-Lev Disease) in chronic chagas' heart disease. Ramos S, et al. **Acta Cardiol** 1995;50(6):483–7

The RR index test for the differentiation of atrioventricular nodal block from His-Purkinje block during incremental atrial pacing in patients with bifascicular block. Englund A. **Eur Heart J** 1997 Feb;18(2):311–7

A modified method for examining the cardiac conduction system. Song Y, et al. **Forensic Sci Int** 1997 Apr 18; 86(1–2):135–8

Noninvasive recording of His bundle activity with an analog

delay device in normal subjects and patients with atrioventricular block. Ushiyama Y, et al. **Heart Vessels** 1995;10(5):241–8

PHYSIOLOGY

His electrogram analysis: is it anterograde or retrograde? Coman JA, et al. **J Cardiovasc Electrophysiol** 1996 Aug; 7(8):785–6

Automated analysis of intracardiac electrograms obtained during extrastimulus tests using a three-dimensional electrophysiology model. Tong DA, et al. **J Electrocardiol** 1996;29 Suppl:202–13

[His bundle electrogram] Saito H, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:552–5 (8 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Comparison of atrial–His intervals in patients with and without dual atrioventricular nodal physiology and atrioventricular nodal reentrant tachycardia. Bogun F, et al. **Am Heart J** 1996 Oct;132(4):758–64

Incidence of induced atrial fibrillation/flutter in complete atrioventricular block. A concept of 'atrial–malfunctioning' atrio–hisian block. Yamashita T, et al. **Circulation** 1997 Feb 4;95(3):650–4

Accessory atrioventricular pathways with only antegrade conduction in patients with symptomatic Wolff–Parkinson–White syndrome. Clinical features, electrophysiological characteristics and response to radiofrequency catheter ablation. Tai CT, et al. **Eur Heart J** 1997 Jan;18(1):132–9

Functional bundle branch block as a delayed manifestation of retrograde concealment in the His–Purkinje system. Gonzalez–Zuelgaray J, et al. **J Cardiovasc Electrophysiol** 1996 Mar;7(3):248–58

Bundle branch reentry ventricular tachycardia: an investigation of the circuit with resetting. Sarter BH, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1082–5

A:V = 1:1 cardiac arrhythmia detection by VA interval analysis. Stevenson SA, et al. **J Electrocardiol** 1996;29 Suppl:198–201

Similar recovery properties in fast and slow atrioventricular nodal pathways. Young ML, et al. **J Electrocardiol** 1996; 29 Suppl:226

SURGERY

Radiofrequency ablation of bundle branch reentrant tachycardia in a patient with atrial septal defect. De Lima GG, et al. **Can J Cardiol** 1997 Apr;13(4):403–5

Exercise capacity after His bundle ablation and rate response ventricular pacing for drug refractory chronic atrial fibrillation. Buys EM, et al. **Heart** 1997 Mar;77(3):238–41

Torsades de pointes following radiofrequency catheter His ablation. Kappos KG, et al. **Int J Cardiol** 1996 Dec 6; 57(2):177–9

Transhepatic access to the atrioventricular ring for delivery of radiofrequency energy. Fischbach P, et al. **J Cardiovasc Electrophysiol** 1997 May;8(5):512–6

Use of the His/RVA electrode catheter in children. Dick M 2nd, et al. **J Electrocardiol** 1996;29 Suppl:227–33

Mapping guided laser catheter ablation of the atrioventricular conduction in dogs. Weber HP, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):176–87

[Ablation of the bundle of His in atrial arrhythmia. A solution when the drugs fail] Gjesdal K, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10;116(27):3222–5 (Eng. Abstr.) **(Nor)**

[Ablation of the bundle of His versus modulation of the atrioventricular conduction system in patients with atrial tachyarrhythmia] Oliveira M, et al. **Rev Port Cardiol** 1997 Mar;16(3):281–5 **(Por)**

[Congenital ectopic junctional tachycardia: long-term remission after cryoablation of the bundle of His] Benito Bartolomé F, et al. **Rev Esp Cardiol** 1997 Mar;50(3):211–3 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Echocardiographic demonstration of coronary sinus diverticula in patients with Wolff–Parkinson–White syndrome. Hamilton K, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):337–43

BUNDLE OF KENT see **HEART CONDUCTION SYSTEM**

BUNGAROTOXINS

Co-expression of the neuronal alpha7 and L247T alpha7 mutant subunits yields hybrid nicotinic receptors with properties of both wild-type alpha7 and alpha7 mutant homomeric receptors. Palma E, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1539–43

BIOSYNTHESIS

cDNA sequence analysis and expression of kappa-bungarotoxin from Taiwan banded krait. Chang L, et al. **Biochem Biophys Res Commun** 1997 Jan 3; 230(1):192–5

CHEMISTRY

cDNA sequence analysis and expression of kappa-bungarotoxin from Taiwan banded krait. Chang L, et al. **Biochem Biophys Res Commun** 1997 Jan 3; 230(1):192–5

Critical interactions at the dimer interface of kappa-bungarotoxin, a neuronal nicotinic acetylcholine receptor antagonist. Grant GA, et al. **Biochemistry** 1997 Mar 18;36(11):3353–8

cDNA sequence analysis and mutagenesis studies on the A chain of beta-bungarotoxin from Taiwan banded krait. Chang LS, et al. **J Protein Chem** 1996 Nov;15(8):755–61

Localization of histidine residues relevant for the binding of alpha-bungarotoxin to the acetylcholine receptor alpha-subunit in V8-proteolytic fragments. Lacorazza HD, et al. **Neurochem Int** 1996 May–Jun;28(5–6):557–67

Three-dimensional solution structure of the complex of alpha-bungarotoxin with a library-derived peptide. Scherf T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6059–64

METABOLISM

Neuronal bungarotoxin displaces (125I) alpha-bungarotoxin binding at the neuromuscular junction as well as to the spinal cord during embryogenesis. Renshaw GM, et al. **Brain Res** 1996 Feb 19;709(2):316–8

Linkage of strain-specific nicotinic receptor alpha 7 subunit restriction fragment length polymorphisms with levels of alpha-bungarotoxin binding in brain. Stitzel JA, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):30–40

The alpha-bungarotoxin-binding nicotinic acetylcholine receptor from rat brain contains only the alpha7 subunit. Chen D, et al. **J Biol Chem** 1997 Sep 19;272(38):24024–9

Identification of equivalent residues in the gamma, delta, and epsilon subunits of the nicotinic receptor that contribute to alpha-bungarotoxin binding. Sine SM. **J Biol Chem** 1997 Sep 19;272(38):23521–7

Anionic residue in the alpha-subunit of the nicotinic acetylcholine receptor contributing to subunit assembly and ligand binding. Sugiyama N, et al. **J Biol Chem** 1996 Oct 25;271(43):26575–81

Nicotinic receptor distribution in the human thalamus: autoradiographical localization of [3H]nicotine and [125I] alpha-bungarotoxin binding. Spurden DP, et al. **J Chem Neuroanat** 1997 Jul;13(2):105–13

Nudicauline and elatine as potent norditerpenoid ligands at rat neuronal alpha-bungarotoxin binding sites: importance of the 2-(methylsuccinimido)benzoyl moiety for neuronal nicotinic acetylcholine receptor binding. Hardick DJ, et al. **J Med Chem** 1996 Nov 22;39(24):4860–6

Involvement of histidine 134 in the binding of alpha-bungarotoxin to the nicotinic acetylcholine receptor. Venera GD, et al. **Neurochem Int** 1997 Jul;31(1):151–7

Genetic correlation of inhibitory gating of hippocampal auditory evoked response and alpha-bungarotoxin-binding nicotinic cholinergic receptors in inbred mouse strains. Stevens KE, et al. **Neuropsychopharmacology** 1996 Aug; 15(2):152–62

Parallel increases in [alpha-125I]bungarotoxin binding and alpha 7 nicotinic subunit immunoreactivity during the development of rat hippocampal neurons in culture. Samuel N, et al. **Neurosci Lett** 1997 Feb 7;222(3):179–82

The alpha-bungarotoxin binding site on the nicotinic acetylcholine receptor: analysis using a phage-epitope library. Balass M, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6054–8

Three-dimensional solution structure of the complex of alpha-bungarotoxin with a library-derived peptide. Scherf T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6059–64

[Effective binding of alpha-bungarotoxin with the solubilized alpha-subunit of Torpedo californica acetylcholine receptor (letter)] Utkin IuN, et al. **Bioorg Khim** 1996 May; 22(5):387–9 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Critical interactions at the dimer interface of kappa-bungarotoxin, a neuronal nicotinic acetylcholine receptor antagonist. Grant GA, et al. **Biochemistry** 1997 Mar 18;36(11):3353–8

ST/b and DBA/2 mice differ in brain alpha-bungarotoxin binding and alpha 7 nicotinic receptor subunit mRNA levels: a quantitative autoradiographic analysis. Marks MJ, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):207–22

Detection of functional nicotinic receptors blocked by alpha-bungarotoxin on PC12 cells and dependence of their expression on post-translational events. Blumenthal EM, et al. **J Neurosci** 1997 Aug 15;17(16):6094–104

Differential expression of alpha-bungarotoxin-sensitive neuronal nicotinic receptors in adrenergic chromaffin cells: a role for transcription factor Egr-1. Criado M, et al. **J Neurosci** 1997 Sep 1;17(17):6554–64

Involvement of protein kinases in the upregulation of acetylcholine release at endplates of alpha-bungarotoxin-treated rats. Plomp JJ, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):175–86

Synaptic currents generated by neuronal acetylcholine receptors sensitive to alpha-bungarotoxin. Zhang ZW, et al. **Neuron** 1996 Dec;17(6):1231–40

Chronic corticosterone treatment elicits dose-dependent changes in mouse brain alpha-bungarotoxin binding. Stitzel JA, et al. **Neuroscience** 1996 Jun;72(3):791–9

Alpha-bungarotoxin-sensitive nicotinic responses in rat tuberomammillary neurons. Uteshev VV, et al. **Pflugers Arch** 1996 Aug;432(4):607–13

SECRETION

A recombinant adenovirus that directs secretion of biologically active kappa-bungarotoxin from mammalian cells. Gorman S, et al. **Brain Res Mol Brain Res** 1997 Feb; 44(1):143–6

TOXICITY

Differential effects of snake venom phospholipase A2 neurotoxin (beta-bungarotoxin) and enzyme (Naja naja atra) on protein kinases. Ueno E, et al. **Biochem Pharmacol** 1996 Oct 25;52(8):1287–93

Mechanism of action of beta-bungarotoxin, a presynaptically acting phospholipase A2 neurotoxin: its effect on protein phosphorylation in rat brain synaptosomes. Ueno E, et al. **Toxicon** 1996 Nov-Dec;34(11–12):1219–27

BUNGARUS

see related

BUNGAROTOXINS

cDNA sequence analysis and expression of kappa-bungarotoxin from Taiwan banded krait. Chang L, et al. **Biochem Biophys Res Commun** 1997 Jan 3; 230(1):192–5

cDNA sequence analysis of a novel cardiotoxin-like protein from Taiwan banded krait. Chang LS, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1271–6

Malaria vaccine [letter; comment] Bawaskar HS, et al. **Lancet** 1996 Nov 16;348(9038):1379. Comment on: Lancet 1996 Sep 14;348(9029):701–7.

BUNION see **HALLUX VALGUS**

BUNOLOL see **LEVOBUNOLOL**

BUNOSTOMIASIS see **HOOKWORM INFECTIONS**

BUNOSTOMUM see **ANCYLOSTOMATOIDEA**

BUNYAMWERA GROUP VIRUSES

GENETICS

Rescue of a segmented negative-strand RNA virus entirely from cloned complementary DNAs. Bridgen A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15400–4

Positive strands to the rescue again: a segmented negative-strand RNA virus derived from cloned cDNAs. Rose JK. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):14998–5000 (31 ref.)

ISOLATION & PURIFICATION

Life-threatening Cache Valley virus infection. Sexton DJ, et al. **N Engl J Med** 1997 Feb 20;336(8):547–9

PATHOGENICITY

Ovine fetal malformations induced by in utero inoculation with Main Drain, San Angelo, and LaCrosse viruses. Edwards JF, et al. **Am J Trop Med Hyg** 1997 Feb; 56(2):171–6

Are North American Bunyamwera serogroup viruses etiologic agents of human congenital defects of the central nervous system? Calisher CH, et al. **Emerg Infect Dis** 1995 Oct–Dec;1(4):147–51

BUNYAMWERA VIRUS see **BUNYAMWERA GROUP VIRUSES**

BUNYAVIRIDAE

Proliferation and teratogenicity of Aino virus in chick embryos. Kitano Y, et al. **Microbiol Immunol** 1996; 40(1):85–8

IMMUNOLOGY

Akabane virus: serological survey of antibodies in livestock in the Sudan. Mohamed ME, et al. **Rev Elev Med Vet Pays Trop** 1996;49(4):285–8

ISOLATION & PURIFICATION

Rapid identification of Toscana virus by nested PCR during an outbreak in the Siena area of Italy. Valassina M, et al. **J Clin Microbiol** 1996 Oct;34(10):2500–2

METABOLISM

Molecular determinants of Golgi retention in the Punta Toro virus G1 protein. Matsuoka Y, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):184–9

BUNYAVIRIDAE INFECTIONS

COMPLICATIONS

Lack of serologic evidence for an association between Cache Valley Virus infection and anencephaly and other neural tube defects in Texas. Edwards JF, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):195–7 (19 ref.)

Proliferation and teratogenicity of Aino virus in chick embryos. Kitano Y, et al. **Microbiol Immunol** 1996; 40(1):85–8

CONGENITAL

Are North American Bunyamwera serogroup viruses etiologic agents of human congenital defects of the central nervous system? Calisher CH, et al. **Emerg Infect Dis** 1995 Oct–Dec;1(4):147–51

DRUG THERAPY

Antiviral activities of tragacanthin polysaccharides on Punta Toro virus infections in mice. Smee DF, et al. **Chemotherapy** 1996 Jul–Aug;42(4):286–93

EPIDEMIOLOGY

Oropouche virus transmission in the Amazon River basin of Peru. Watts DM, et al. **Am J Trop Med Hyg** 1997 Feb; 56(2):148–52

Venezuelan equine encephalitis and Oropouche virus infections among Peruvian army troops in the Amazon region of Peru. Watts DM, et al. **Am J Trop Med Hyg** 1997 Jun;56(6):661–7

[Outbreak of oropouche virus fever in Serra Pelada, municipality of Curionópolis, Pará, 1994] Rosa AP, et al. **Rev Soc Bras Med Trop** 1996 Nov–Dec;29(6):537–41 (Eng. Abstr.) **(Por)**

ETIOLOGY

Are North American Bunyamwera serogroup viruses etiologic agents of human congenital defects of the central nervous system? Calisher CH, et al. **Emerg Infect Dis** 1995 Oct–Dec;1(4):147–51

TRANSMISSION

[Argas and arbovirus update] Vermeil C, et al. **Bull Soc Pathol Exot** 1996;89(5):363–5 (16 ref.) (Eng. Abstr.) **(Fre)**

VETERINARY

Ovine fetal malformations induced by in utero inoculation with Main Drain, San Angelo, and LaCrosse viruses. Edwards JF, et al. **Am J Trop Med Hyg** 1997 Feb; 56(2):171–6

The role of deer as a possible reservoir host of potosi virus, a newly recognized arbovirus in the United States. McLean RG, et al. **J Wildl Dis** 1996 Jul;32(3):444–52

Akabane virus: serological survey of antibodies in livestock in the Sudan. Mohamed ME, et al. **Rev Elev Med Vet Pays Trop** 1996;49(4):285–8

Hydranencephaly, cerebellar hypoplasia, and myopathy in chick embryos infected with aino virus. Kitano Y, et al. **Vet Pathol** 1996 Nov;33(6):672–81

VIROLOGY

Rapid identification of Toscana virus by nested PCR during an outbreak in the Siena area of Italy. Valassina M, et al. **J Clin Microbiol** 1996 Oct;34(10):2500–2

Immunocytochemical analysis of Uukuniemi virus budding compartments: role of the intermediate compartment and the Golgi stack in virus maturation. Jäntti J, et al. **J Virol** 1997 Feb;71(2):1162–72

Life-threatening Cache Valley virus infection. Sexton DJ, et al. **N Engl J Med** 1997 Feb 20;336(8):547–9

BUNYAVIRUS

Immunocytochemical analysis of Uukuniemi virus budding compartments: role of the intermediate compartment and the Golgi stack in virus maturation. Jäntti J, et al. **J Virol** 1997 Feb;71(2):1162–72

IMMUNOLOGY

Antigenic diversity of Akabane virus detected by monoclonal antibodies. Akashi H, et al. **Virus Res** 1997 Feb;47(2):187–96

ISOLATION & PURIFICATION

The role of deer as a possible reservoir host of potosi virus, a newly recognized arbovirus in the United States. McLean RG, et al. **J Wildl Dis** 1996 Jul;32(3):444–52

BUNYAVIRUS INFECTIONS see **BUNYAVIRIDAE INFECTIONS**

BUPHTHALMOS see **HYDROPHTHALMOS**

BUPIVACAINE

Comparison of etidocaine and bupivacaine + lidocaine in retrobulbar anaesthesia. Ruusuvaara P, et al. **Acta Ophthalmol Scand** 1995 Dec;73(6):563–6

Comparison of subcutaneous ring block of the penis with caudal epidural block for post-circumcision analgesia in children. Irwin MG, et al. **Anaesth Intensive Care** 1996 Jun;24(3):365–7

Comparison of 0.5% ropivacaine and 0.5% bupivacaine in lumbar epidural anaesthesia for lower limb orthopaedic surgery. McGlade DP, et al. **Anaesth Intensive Care** 1997 Jun;25(3):262–6

Failed spinal anaesthesia [letter] Stace JD, et al. **Anaesthesia** 1996 Sep;51(9):892–3

Postoperative epidural infusion: a randomized, double-blind, dose-finding trial of clonidine in combination with bupivacaine and fentanyl. Paech MJ, et al. **Anesth Analg** 1997 Jun;84(6):1323–8

Addition of epinephrine to intrathecal bupivacaine and sufentanil for ambulatory labor analgesia. Campbell DC, et al. **Anesthesiology** 1997 Mar;86(3):525–31

Anesthesia for fish envenomation [letter; comment] Bush SP. **Ann Emerg Med** 1997 May;29(5):692–3. Comment on: Ann Emerg Med 1996 Oct;28(4):456–7.

Preemptive analgesia in patients undergoing appendectomy. Ko CY, et al. **Arch Surg** 1997 Aug;132(8):874–7; discussion 877–8

Transcervical analgesia for laparoscopic sterilisation [letter; comment] Kelly MC, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):1051. Comment on: Br J Obstet Gynaecol 1996 Apr;103(4):378–80.

Rectus sheath bupivacaine analgesia after aortic surgery [letter; comment] Chester JF, et al. **Br J Surg** 1997 May; 84(5):728. Comment on: Br J Surg 1996 Nov;83(11):1558.

Prospective randomized study of a new method of providing postoperative pain relief following femoropopliteal bypass. Griffith JP, et al. **Br J Surg** 1996 Dec;83(12):1735–8

Randomized trial of periportal peritoneal bupivacaine for pain relief after laparoscopic cholecystectomy [letter; comment] Lotz JC. **Br J Surg** 1997 May;84(5):730. Comment on: Br J Surg 1996 Sep;83(9):1223–5.

Spermatic-cord block improves analgesia for day-case testicular surgery. Burden RJ, et al. **Br J Urol** 1997 Sep; 80(3):472–5

Thoracic epidural anaesthesia and analgesia with bupivacaine for transsternal thymectomy for myasthenia gravis. Akpolat N, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):220–3

Popliteal sciatic nerve block for postoperative analgesia. Rongstad K, et al. **Foot Ankle Int** 1996 Jul;17(7):378–82

Endosonography-guided celiac plexus neurolysis. Wiersema MJ, et al. **Gastrointest Endosc** 1996 Dec;44(6):656–62

Efficacy of ketorolac tromethamine and extrapleural intercostal nerve block on post-thoracotomy pain. A prospective, randomized study. Carretta A, et al. **Int Surg** 1996 Jul–Sep;81(3):224–8

Caudal epidural butorphanol plus bupivacaine versus bupivacaine in pediatric outpatient genitourinary procedures. Lawhorn CD, et al. **J Clin Anesth** 1997 Mar; 9(2):103–8

Hemodynamic effects of intrathecal sufentanil compared with epidural bupivacaine in laboring parturients. Pham LH, et al. **J Clin Anesth** 1996 Sep;8(6):497–501; discussion 502–3

Effects of clonidine pretreatment on the local anaesthetic activity of bupivacaine in mice. Attolini L, et al. **J Pharm Pharmacol** 1995 Dec;47(12A):994–6

Penile block timing for postoperative analgesia of hypospadias repair in children. Chhibber AK, et al. **J Urol** 1997 Sep;158(3 Pt 2):1156–9

Bupivacaine for postoperative analgesia following endoscopic sinus surgery. Friedman M, et al. **Laryngoscope** 1996 Nov;106(11):1382–5

Sphenopalatine ganglion block relieves symptoms of trigeminal neuralgia: a case report. Manahan AP, et al. **Nebr Med J** 1996 Sep;81(9):306–9

Ambulatory combined spinal-epidural analgesia for labor. Influence of epinephrine on bupivacaine-sufentanil combination. Gautier PE, et al. **Reg Anesth** 1997 Mar–Apr; 22(2):143–9

Subarachnoid neostigmine does not affect blood pressure or heart rate during bupivacaine spinal anesthesia. Lauretti GR, et al. **Reg Anesth** 1996 Nov–Dec;21(6):586–91

Analgesic efficacy and side effects of subarachnoid sufentanil–bupivacaine administered to women in advanced labor. Viscomi CM, et al. **Reg Anesth** 1996 Sep–Oct; 21(5):424–9

Reduction of blood loss during spinal surgery by epidural blockade under normotensive general anesthesia. Kakiuchi M. **Spine** 1997 Apr 15;22(8):889–94

Preemptive analgesia in the laparoscopic patient. Mixter CG 3rd, et al. **Surg Endosc** 1997 Apr;11(4):351–3

A comparison of epidural saline, morphine, and bupivacaine for pain relief after abdominal surgery in goats. Hendrickson DA, et al. **Vet Surg** 1996 Jan–Feb;25(1):83–7

Postoperative analgesia for stifle surgery: a comparison of intra-articular bupivacaine, morphine, or saline. Sammarco JL, et al. **Vet Surg** 1996 Jan–Feb;25(1):59–69

[Peribulbar anesthesia and intraocular lens implantation] Yang W, et al. **Chung Hua Yen Ko Tsa Chih** 1995 Jul; 31(4):271–3 (Eng. Abstr.) **(Chi)**

[Single-dose spinal anesthesia with a mixture of isobaric bupivacaine 0.5% and hyperbaric mepivacaine 4%] Eckert S, et al. **Anaesthesist** 1997 Feb;46(2):121–5 (Eng. Abstr.) **(Ger)**

[Comment on the contribution by K.A. Strub et al. On the local infiltration of epinephrine and bupivacaine before tonsillectomy (letter)] Plath P. **HNO** 1997 Jun;45(6):432 **(Ger)**

[Local infiltration of epinephrine and bupivacaine before tonsillectomy] Strub KA, et al. **HNO** 1996 Dec; 44(12):672–6 (Eng. Abstr.) **(Ger)**

[Transcutaneous or transconjunctival peribulbar anesthesia?] Bohlender T, et al. **Ophthalmologe** 1997 May;94(5):324–6 (Eng. Abstr.) **(Ger)**

[Comparison of epidural fentanyl versus bupivacaine in maintaining intraoperative liver function] Nishiyama M. **Masui** 1997 Jun;46(6):743–9 (Eng. Abstr.) **(Jpn)**

[Effect of the local anesthetic on visceral pain in cesarean sections done under intradural anesthesia] Echevarría M, et al. **Rev Esp Anestesiol Reanim** 1996 Jan;43(1):2–6 (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

No additional analgesic effect of intra-articular morphine or bupivacaine compared with placebo after elective knee arthroscopy. Aasbø V, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):585–8

Preoperative infiltration of bupivacaine--effects on pain relief and trauma response (cortisol and interleukin-6). Eriksson-Mjöberg M, et al. **Acta Anaesthesiol Scand** 1997 Apr;41(4):466–72

Wound infiltration with liposomal bupivacaine prolongs analgesia in rats. Grant GJ, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):204–7

Comparison of continuous epidural infusion of fentanyl and bupivacaine with intermittent epidural administration of morphine for postoperative pain management in children. Kart T, et al. **Acta Anaesthesiol Scand** 1997 Apr;41(4):461–5

Effect of pre- vs postoperative tonsillar infiltration with local anesthetics on postoperative pain after tonsillectomy. Molliex S, et al. **Acta Anaesthesiol Scand** 1996 Nov; 40(10):1210–5

Caudal clonidine and bupivacaine for combined epidural and general anaesthesia in children. Motsch J, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):877–83

Intraperitoneal bupivacaine for analgesia after laparoscopic cholecystectomy. Mraović B, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):193–6

Anesthetic quality during cesarean section following subarachnoid or epidural administration of bupivacaine with or without fentanyl. Olofsson C, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):332–8

Postoperative epidural infusion of morphine and bupivacaine is safe on surgical wards. Organisation of the treatment, effects and side-effects in 2000 consecutive patients. Rygnestad T, et al. **Acta Anaesthesiol Scand** 1997 Aug; 41(7):868–76

Interpleural bupivacaine for pain relief after transthoracic endoscopic sympathectomy for primary hyperhidrosis. Lieou FJ, et al. **Acta Anaesthesiol Sin** 1996 Mar;34(1):21–5

Epidural coadministration of ketamine, morphine and bupivacaine attenuates post-herpetic neuralgia--a case report. Wong CS, et al. **Acta Anaesthesiol Sin** 1996 Sep; 34(3):151–5

Effective obstetric paracervical block with reduced dose of bupivacaine. A prospective randomized double-blind study comparing 25 mg (0.25%) and 12.5 mg (0.125%) of bupivacaine. Nieminen K, et al. **Acta Obstet Gynecol Scand** 1997 Jan;76(1):50–4

Prevention of phantom limb pain by infusion of local anaesthetic into the sciatic nerve [see comments] Pavy TJ, et al. **Anaesth Intensive Care** 1996 Oct;24(5):599–600. Comment in: Anaesth Intensive Care 1997 Apr;25(2):200.

Single injection field block of tonsillar fossa [letter] Spence AG. **Anaesth Intensive Care** 1996 Oct;24(5):621–3

Repeat dose after an inadequate spinal block [letter] [see comments] Deshpande S, et al. **Anaesthesia** 1996 Sep; 51(9):892. Comment in: Anaesthesia 1997 Feb;52(2):188.

Patient-controlled regional anaesthesia [letter; comment] Mackenzie JW, et al. **Anaesthesia** 1997 Jul;52(7):715. Comment on: Anaesthesia 1997 Mar;52(3):263–4.

Intrathecal fentanyl with small-dose dilute bupivacaine: better anesthesia without prolonging recovery. Ben-David B, et al. **Anesth Analg** 1997 Sep;85(3):560–5

Spinal bupivacaine in ambulatory surgery: the effect of saline dilution. Ben-David B, et al. **Anesth Analg** 1996 Oct; 83(4):716–20

Antinociceptive effect of bupivacaine encapsulated in poly(D,L)-lactide-co-glycolide microspheres in the acute inflammatory pain model of carrageenin-injected rats. Fletcher D, et al. **Anesth Analg** 1997 Jan;84(1):90–4

Differential sensory block after spinal bupivacaine in volunteers. Liu SS, et al. **Anesth Analg** 1997 Jan;84(1):115–9

The effect of bupivacaine skull block on the hemodynamic response to craniotomy [see comments] Pinosky ML, et al. **Anesth Analg** 1996 Dec;83(6):1256–61. Comment in: Anesth Analg 1997 Apr;84(4):942.

Maternal posture influences the extent of sensory block produced by intrathecal dextrose-free bupivacaine with fentanyl for labor analgesia. Richardson MG, et al. **Anesth Analg** 1996 Dec;83(6):1229–33

Effects of ketorolac versus bupivacaine coadministration during patient-controlled hydromorphone epidural analgesia after thoracotomy procedures. Singh H, et al. **Anesth Analg** 1997 Mar;84(3):564–9

The effects of adding sufentanil to bupivacaine for postoperative patient-controlled epidural analgesia. Wiebalck A, et al. **Anesth Analg** 1997 Jul;85(1):124–9

Comparison of continuous spinal with combined spinal-epidural anesthesia using plain bupivacaine 0.5% in trauma patients. Wilhelm S, et al. **Anesth Analg** 1997 Jul; 85(1):69–74

Glucocorticoids prolong rat sciatic nerve blockade in vivo from bupivacaine microspheres. Castillo J, et al. **Anesthesiology** 1996 Nov;85(5):1157–66

Epidural and intrathecal n-butyl-p-aminobenzoate solution

in the rat. Comparison with bupivacaine. Grouls RJ, et al. **Anesthesiology** 1997 Jan;86(1):181–7

Dose–response characteristics of spinal bupivacaine in volunteers. Clinical implications for ambulatory anesthesia. Liu SS, et al. **Anesthesiology** 1996 Oct;85(4):729–36

Liposomal bupivacaine. Extended duration nerve blockade using large unilamellar vesicles that exhibit a proton gradient. Mowat JJ, et al. **Anesthesiology** 1996 Sep; 85(3):635–43

Effects of peritonsillar infiltration on post–tonsillectomy pain. A double–blind study. Goldsher M, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):868–70

Comparing preincisional with postincisional bupivacaine infiltration in the management of postoperative pain. Bourget JL, et al. **Arch Surg** 1997 Jul;132(7):766–9

Local and intra–articular infiltration of bupivacaine before surgery: effect on postoperative pain after anterior cruciate ligament reconstruction. Höher J, et al. **Arthroscopy** 1997 Apr;13(2):210–7

Efficacy of bupivacaine delivered by wound catheter for post–Caesarean section analgesia. Mecklem DW, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):416–21

Spinal anaesthesia with 0.25% hyperbaric bupivacaine for caesarean section: effects of volume [letter; comment] Bell R, et al. **Br J Anaesth** 1997 Mar;78(3):339–40. Comment on: Br J Anaesth 1996 Aug;77(2):145–9.

Serum concentrations of bupivacaine during prolonged continuous paravertebral infusion in young infants. Cheung SL, et al. **Br J Anaesth** 1997 Jul;79(1):9–13

Spinal anaesthesia with 0.25% hyperbaric bupivacaine for Caesarean section: effects of volume [see comments] Chung CJ, et al. **Br J Anaesth** 1996 Aug;77(2):145–9. Comment in: Br J Anaesth 1997 Mar;78(3):339–40.

Wound infiltration with local anaesthetic after abdominal hysterectomy. Cobby TF, et al. **Br J Anaesth** 1997 Apr; 78(4):431–2

Spinal anaesthesia: effect of the site of injection on the spread of analgesia [letter] Kamenik M. **Br J Anaesth** 1997 Jul; 79(1):144–5

Single bolus compared with a fractionated dose injection technique of bupivacaine for extradural Caesarean section: effect on uteroplacental and fetal haemodynamic state. Karinen J, et al. **Br J Anaesth** 1996 Aug;77(2):140–4

Effect of Sprotte needle orientation on spinal anaesthesia [letter; comment] Serpell MG. **Br J Anaesth** 1997 Feb; 78(2):229–30. Comment on: Br J Anaesth 1996 Aug;77(2):150–2.

Spinal anaesthesia with 0.5% hyperbaric bupivacaine in elderly patients: effect of site of injection on spread of analgesia. Veering BT, et al. **Br J Anaesth** 1996 Sep; 77(3):343–6

Use of epidural catheter for postoperative pain relief for bone harvesting from iliac crest. Dunstan SP, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):436–7

Randomized trial of periportal peritoneal bupivacaine for pain relief after laparoscopic cholecystectomy [see comments] Alexander DJ, et al. **Br J Surg** 1996 Sep; 83(9):1223–5. Comment in: Br J Surg 1997 Jan;84(1):138. Comment in: Br J Surg 1997 May;84(5):730.

Rectus sheath bupivacaine analgesia after aortic surgery [see comments] Curley P, et al. **Br J Surg** 1996 Nov;83(11):1558 . Comment in: Br J Surg 1997 May;84(5):728. Comment in: Br J Surg 1997 Jul;84(7):1033–4.

Rectus sheath bupivacaine analgesia after aortic surgery [letter; comment] Cuschieri RJ, et al. **Br J Surg** 1997 Jul; 84(7):1033–4. Comment on: Br J Surg 1996 Nov;83(11);1558.

Randomized trial of periportal peritoneal bupivacaine for pain relief after laparoscopic cholecystectomy [letter; comment] Wong C, et al. **Br J Surg** 1997 Jan;84(1):138. Comment on: Br J Surg 1996 Sep;83(9):1223–5.

Direction of injection does not affect the spread of spinal bupivacaine in parturients. Massé E, et al. **Can J Anaesth** 1997 Aug;44(8):816–9

Double–blind comparison of epidural ropivacaine 0.25% and bupivacaine 0.25%, for the relief of childbirth pain. Muir HA, et al. **Can J Anaesth** 1997 Jun;44(6):599–604

Bupivacaine decreases epidural meperidine requirements after abdominal surgery. St–Onge S, et al. **Can J Anaesth** 1997 Apr;44(4):360–6

Cataract surgery with 0.75% bupivacaine [letter; comment] Heston JP, et al. **Can J Ophthalmol** 1996 Oct;31(6):328. Comment on: Can J Ophthalmol 1995 Aug;30(5):264–6.

Epidural bupivacaine/fentanyl infusions vs. intermittent top–ups: a retrospective study of the effects on mode of delivery in primiparous women. Driver I, et al. **Eur J Anaesthesiol** 1996 Sep;13(5):515–20

The optimal dose of local anaesthetic in the orthogonal two–needle technique. Extent of sensory block after the injection of 20, 30 and 40 mL of anaesthetic solution. Rucci FS, et al. **Eur J Anaesthesiol** 1997 May;14(3):281–6

The value of continuous blockade of the lumbar plexus as an adjunct to acetylsalicyclic acid for pain relief after surgery for femoral neck fractures. Spansberg NL, et al. **Eur J Anaesthesiol** 1996 Jul;13(4):410–2

Effect of second–stage 0.25% epidural bupivacaine on the outcome of labor. Luxman D, et al. **Gynecol Obstet Invest** 1996;42(3):167–70

Local bupivacaine infusion following bone graft harvest from the iliac crest. Hahn M, et al. **Int J Oral Maxillofac Surg** 1996 Oct;25(5):400–1

Local anesthetics. Is there an advantage to mixing solutions? Ribotsky BM, et al. **J Am Podiatr Med Assoc** 1996 Oct; 86(10):487–91

Intra–articular morphine and/or bupivacaine in the management of pain after total knee arthroplasty. Mauerhan DR, et al. **J Arthroplasty** 1997 Aug;12(5):546–52

Continuous postoperative infusion of a regional anesthetic after an amputation of the lower extremity. A randomized clinical trial. Pinzur MS, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1501–5

Continuous infusion is superior to bolus doses with thoracic paravertebral blocks after thoracotomies. Català E, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):586–8

The effects of carotid sinus nerve blockade on hemodynamic stability after carotid endarterectomy. Gottlieb A, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):67–71

Anesthesia supplemented with subarachnoid bupivacaine and morphine for coronary artery bypass surgery in a child with Kawasaki disease. Kowalewski R, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):243–6

Postoperative analgesia and intraoperative inhalational anesthetic requirements during umbilical herniorrhaphy in children: postincisional local infiltration versus preincisional caudal epidural block. Tobias JD. **J Clin Anesth** 1996 Dec;8(8):634–8

Postoperative analgesic effects of an external cooling system and intra–articular bupivacaine/morphine after arthroscopic cruciate ligament surgery. Brandsson S, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(4):200–5

Shoulder injections for subacromial bursitis [letter] Bert J. **Minn Med** 1996 Sep;79(9):6

Local injection therapy in 107 patients with myofascial pain syndrome of the head and neck. Tschopp KP, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Nov–Dec; 58(6):306–10

Effective pain relief with continuous intrapleural bupivacaine after thoracotomy in infants and children. Semsroth M, et al. **Paediatr Anaesth** 1996;6(4):303–10

Complications of super–selective subarachnoid anesthesia (SSA) with hyperbaric bupivacaine: experiences with 355 patients in general and orthopaedic surgery. Pappalardo GB, et al. **Panminerva Med** 1997 Mar;39(1):41–5

Controlled systemic absorption and increased anesthetic effect of bupivacaine following epidural administration of bupivacaine–hydroxypropyl–beta–cyclodextrin complex. Fréville JC, et al. **Pharm Res** 1996 Oct;13(10):1576–80

Extended epidural catheter infusions with analgesics for patients with noncancer pain at their homes. Aldrete JA. **Reg Anesth** 1997 Jan–Feb;22(1):35–42

Addition of morphine to intra–articular bupivacaine does not improve analgesia following knee joint replacement. Badner NH, et al. **Reg Anesth** 1997 Jul–Aug;22(4):347–50

Comparison between hemodynamic changes after single–dose and incremental subarachnoid anesthesia. Casati A, et al. **Reg Anesth** 1996 Jul–Aug;21(4):298–303

Pain relief after knee arthroscopy: intra–articular morphine, intra–articular bupivacaine, or subcutaneous morphine? Cepeda MS, et al. **Reg Anesth** 1997 May–Jun;22(3):233–8

Iliac crest bone graft pain: simplicity revisited [letter] Green DM. **Reg Anesth** 1996 Jan–Feb;21(1):77

Plasma bupivacaine concentrations following epidural administration in kidney transplant recipients. Hammouda GE, et al. **Reg Anesth** 1996 Jul–Aug;21(4):308–11

Interpleural analgesia in the management of esophageal perforation. Main A. **Reg Anesth** 1997 Mar–Apr; 22(2):185–7

Continuous axillary brachial plexus block for postoperative pain relief. Intermittent bolus versus continuous infusion. Mezzatesta JP, et al. **Reg Anesth** 1997 Jul–Aug;22(4):357–62

Subarachnoid bupivacaine increases human cerebrospinal fluid concentration of serotonin. Naesh O, et al. **Reg Anesth** 1996 Sep–Oct;21(5):446–50

Continuous spinal analgesia. Comparison between patient–controlled and bolus administration of plain bupivacaine for postoperative pain relief. Rundshagen I, et al. **Reg Anesth** 1997 Mar–Apr;22(2):150–6

Extraconal bupivacaine in scleral buckling procedures. Bourke RD, et al. **Retina** 1996;16(3):240–5

The effect and timing of local anesthesia in laparoscopic cholecystectomy. Sarac AM, et al. **Surg Laparosc Endosc** 1996 Oct;6(5):362–6

Use of subdiaphragmatic bupivacaine instillation to control postoperative pain after laparoscopic surgery. Weber A, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):6–8

Local wound infiltration with bupivacaine in lumbar laminectomy. Cherian MN, et al. **Surg Neurol** 1997 Feb; 47(2):120–2; discussion 122–3

Administration of epidural bupivacaine combined with epidural morphine after esophageal surgery. Terai T, et al. **Surgery** 1997 Apr;121(4):359–65

[Analgesia after laparoscopic cholecystectomy by intraperitoneal administration of bupivacaine] Fuhrer Y, et al. **Ann Fr Anesth Reanim** 1996;15(2):128–34 (Eng. Abstr.) **(Fre)**

[Intra–articular analgesia after arthroscopy of the knee] Jawish D, et al. **Cah Anesthesiol** 1996;44(5):415–7 (Eng. Abstr.) **(Fre)**

[Comparison of dosage relations of prilocaine and bupivacaine for axillary plexus anesthesia] Voges O, et al. **Anaesthesiol Reanim** 1997;22(3):63–8 (Eng. Abstr.) **(Ger)**

[Continuous intra– and postoperative peridural analgesia with combined low dose sufentanil, clonidine and bupivacaine] Hering R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Nov; 31(9):550–5 (Eng. Abstr.) **(Ger)**

[Conversion from peridural to transdermal opiate analgesia in abdominal tumor pain syndrome] Schuler M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 May; 32(5):322–4 (Eng. Abstr.) **(Ger)**

[Spinal anesthesia in cesarean section: 1% versus 0.5% hyperbaric bupivacaine] Gallo F, et al. **Minerva Anestesiol** 1996 Jan–Feb;62(1–2):9–15 (Eng. Abstr.) **(Ita)**

[Superselective spinal anesthesia for saphenectomy intervention. Comparison of 2 concentrations of hyperbaric bupivacaine] Santagostino G, et al. **Minerva Anestesiol** 1996 Dec;62(12):389–94 (Eng. Abstr.) **(Ita)**

[The use of intraoperative topical bupivacaine in the control of postoperative pain following laparoscopic cholecystectomy] Fornari M, et al. **Minerva Chir** 1996 Oct; 51(10):881–5 (Eng. Abstr.) **(Ita)**

[The effect of continuous epidural infusion of combination of buprenorphine and bupivacaine for postoperative pain relief using a portable 0.5 ml.h–1 type infuser with patient control module] Komatsu H, et al. **Masui** 1996 Jun; 45(6):735–40 (Eng. Abstr.) **(Jpn)**

[Continuous epidural blockade as a method of treatment of low back pain syndrome in the course of disk pathology. Introductory research] Wolny T, et al. **Neurol Neurochir Pol** 1996 May–Jun;30(3):409–18 (Eng. Abstr.) **(Pol)**

ADVERSE EFFECTS

Adverse reaction to bupivacaine. Munoz Bellido FJ, et al. **Allergy** 1996 Jul;51(7):515–6

Orthostatic hypotension during postoperative continuous thoracic epidural bupivacaine–morphine in patients undergoing abdominal surgery. Crawford ME, et al. **Anesth Analg** 1996 Nov;83(5):1028–32

Three sudden postoperative respiratory arrests associated with epidural opioids in patients with sleep apnea. Ostermeier AM, et al. **Anesth Analg** 1997 Aug;85(2):452–60 (45 ref.)

Spinal neostigmine diminishes, but does not abolish, hypotension from spinal bupivacaine in sheep. Rose G, et al. **Anesth Analg** 1996 Nov;83(5):1041–5

Severe maternal hypotension and fetal bradycardia after a combined spinal epidural anesthetic. D'Angelo R, et al. **Anesthesiology** 1997 Jul;87(1):166–8

Maternal respiratory arrests, severe hypotension, and fetal distress after administration of intrathecal, sufentanil, and bupivacaine after intravenous fentanyl. Lu JK, et al. **Anesthesiology** 1997 Jul;87(1):170–2

Cardiovascular toxicity following preincisional intra–articular injection of bupivicaine [letter] Abbott PJ Jr, et al. **Arthroscopy** 1997 Apr;13(2):282

Cardiac arrest after caesarean section under subarachnoid block [letter; comment] Burns R, et al. **Br J Anaesth** 1997 Jan;78(1):110. Comment on: Br J Anaesth 1996 Aug;77(2):274–6.

Central nervous and cardiovascular effects of i.v. infusions of ropivacaine, bupivacaine and placebo in volunteers. Knudsen K, et al. **Br J Anaesth** 1997 May;78(5):507–14

Hearing loss following spinal anaesthesia with bupivacaine. Hussain SS, et al. **Clin Otolaryngol** 1996 Oct;21(5):449–54

Effect of epidural analgesia on duration and outcome of induced labor. Rojansky N, et al. **Int J Gynaecol Obstet** 1997 Mar;56(3):237–44

Central nervous system toxicity in a patient receiving continuous intrapleural bupivacaine. Kreitzer JM, et al. **J Clin Anesth** 1996 Dec;8(8):666–8

Compartment syndrome associated with bupivacaine and fentanyl epidural analgesia in pediatric orthopaedics [see comments] Dunwoody JM, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):285–8. Comment in: J Pediatr Orthop 1997 May–Jun;17(3):282–4.

Neurological impairment during long–term intrathecal infusion of bupivacaine in cancer patients: a sign of spinal cord compression. van Dongen RT, et al. **Pain** 1997 Jan; 69(1–2):205–9

Bupivacaine toxicity secondary to continuous epidural infusion [letter] Aldrete JA. **Reg Anesth** 1996 Sep–Oct; 21(5):498–9

Unexpected neurologic deficit following spinal anesthesia. Chhibber AK, et al. **Reg Anesth** 1996 Jul–Aug;21(4):355–7

Transient radicular irritation after bupivacaine spinal anesthesia. Tarkkila P, et al. **Reg Anesth** 1996 Jan–Feb; 21(1):26–9

[Transient myocardial ischemia secondary to the use of cocaine–like anesthetic drug] Elia LR, et al. **Ann Ital Med Int** 1996 Apr–Jun;11(2):140–3 (Eng. Abstr.) **(Ita)**

ANALYSIS

Validation of high–performance liquid chromatographic methods on two silica base–deactivated reversed phases for the determination of chloroprocaine and bupivacaine. Brun F, et al. **J Pharm Biomed Anal** 1996 Jun; 14(8–10):1251–9

BLOOD

Neonatal welfare and placental transfer of fentanyl and bupivacaine during ambulatory combined spinal epidural analgesia for labour. Fernando R, et al. **Anaesthesia** 1997

Jun;52(6):517-24
Venous levels of lignocaine and bupivacaine after peribulbar block. Gao F, et al. **Anaesthesia** 1996 Dec;51(12):1109-12
Plasma concentrations of bupivacaine in neonates after continuous epidural infusion. Larsson BA, et al. **Anesth Analg** 1997 Mar;84(3):501-5
Plasma concentrations of lidocaine and bupivacaine after cervical plexus block for carotid surgery. Tissot S, et al. **Anesth Analg** 1997 Jun;84(6):1377-9
Rapid and specific precolumn extraction high-performance liquid chromatographic assay for bupivacaine in human serum. Emara S, et al. **Biomed Chromatogr** 1996 May-Jun; 10(3):131-4
Plasma bupivacaine concentrations associated with continuous extradural infusions in babies. Peutrell JM, et al. **Br J Anaesth** 1997 Feb;78(2):160-2
Serum bupivacaine concentrations during continuous extrapleural infusion. Dauphin A, et al. **Can J Anaesth** 1997 Apr;44(4):367-70
Serum bupivacaine concentrations and transplacental transfer following repeated epidural administrations in term parturients during labour. Decocq G, et al. **Fundam Clin Pharmacol** 1997;11(4):365-70
Serum bupivacaine levels during laparoscopic sterilization using local anesthesia. Lipscomb GH, et al. **J Am Assoc Gynecol Laparosc** 1994 Nov;2(1):27-30
Direct injection of large volumes of plasma in a column-switching system for the analysis of local anaesthetics. I. Optimization of semi-permeable surface precolumns in the system and characterization of some interference peaks. Yu Z, et al. **J Chromatogr A** 1996 Feb 19;725(1):137-47
Direct injection of large volumes of plasma in a column-switching system for the analysis of local anaesthetics. II. Determination of bupivacaine in human plasma with an alkyldiol silica precolumn. Yu Z, et al. **J Chromatogr A** 1996 Feb 19;725(1):149-55
High-performance liquid chromatographic method for an automated determination of local anaesthetics in human plasma. Drewe J, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):105-10
Comparative study of the determination of bupivacaine in human plasma by gas chromatography-mass spectrometry and high-performance liquid chromatography. Tahraoui A, et al. **J Pharm Biomed Anal** 1996 Nov;15(2):251-7
Plasma bupivacaine concentrations following epidural administration in kidney transplant recipients. Hammouda GE, et al. **Reg Anesth** 1996 Jul-Aug;21(4):308-11
Simultaneous determination of lidocaine and bupivacaine in human plasma: application to pharmacokinetics. Lotfi H, et al. **Ther Drug Monit** 1997 Apr;19(2):160-4

CHEMISTRY

Compatibility of bupivacaine hydrochloride and morphine sulfate. Johnson CE, et al. **Am J Health Syst Pharm** 1997 Jan 1;54(1):61-4

DIAGNOSTIC USE

Peroneal tendon bupivacaine injection: utility of concomitant injection of contrast material. Mizel MS, et al. **Foot Ankle Int** 1996 Sep;17(9):566-8

PHARMACOKINETICS

The pharmacokinetics of epidural lidocaine and bupivacaine during cesarean section. Downing JW, et al. **Anesth Analg** 1997 Mar;84(3):527-32
Comparative pharmacokinetics of ropivacaine and bupivacaine in nonpregnant and pregnant ewes. Santos AC, et al. **Anesth Analg** 1997 Jul;85(1):87-93
Myocardial extraction of bupivacaine in anaesthetized sheep and by hearts of sheep and rats in vitro. Foth H, et al. **Br J Anaesth** 1996 Aug;77(2):257-64
Seasonal variations in the kinetics of bupivacaine in the mouse. Attolini L, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jul-Sep; 21(3):257-60
Kinetics of bupivacaine after nicorandil treatment in mice. Gantenbein M, et al. **J Pharm Pharmacol** 1996 Jul; 48(7):749-52
Kinetics of bupivacaine after levcromakalim treatment in mice. Gantenbein M, et al. **J Pharm Pharmacol** 1997 Mar; 49(3):293-5
Effects of tobacco smoke exposure on the kinetics of bupivacaine in mice. Attolini L, et al. **Life Sci** 1997; 60(10):725-34
Plasma bupivacaine levels after fascia iliaca compartment block with and without adrenaline. Doyle E, et al. **Paediatr Anaesth** 1997;7(2):121-4
Controlled systemic absorption and increased anesthetic effect of bupivacaine following epidural administration of bupivacaine-hydroxypropyl-beta-cyclodextrin complex. Fréville JC, et al. **Pharm Res** 1996 Oct;13(10):1576-80
Alcohol pretreatment does not affect bupivacaine pharmacokinetics in the pig. Mets B, et al. **Pharmacol Res** 1996 Apr-May;33(4-5):291-5
Distribution of local anesthetic solution in retromediastinal block. Preliminary experimental results. Kull K, et al. **Reg Anesth** 1997 Jul-Aug;22(4):308-12
Simultaneous determination of lidocaine and bupivacaine in human plasma: application to pharmacokinetics. Lotfi H, et al. **Ther Drug Monit** 1997 Apr;19(2):160-4

PHARMACOLOGY

Methylprednisolone shortens the effects of bupivacaine on sensory nerve fibers in vivo. Johansson A. **Acta Anaesthesiol Scand** 1996 May;40(5):595-99
Bupivacaine does not suppress cardiac sympathetic nerve activity during halothane anesthesia in the cat. Nishikawa K, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):595-601
Myoelectric activity in the stomach and duodenum after epidural administration of morphine or bupivacaine. Thörn SE, et al. **Acta Anaesthesiol Scand** 1996 Aug;40(7):773-8
The preemptive effect of pre-incisional bupivacaine infiltration on postoperative analgesia following lower abdominal surgery under epidural anesthesia. Huang SJ, et al. **Acta Anaesthesiol Sin** 1997 Jun;35(2):97-102
Antimicrobial properties of bupivacaine [letter; comment] Meyer RJ. **Anaesth Intensive Care** 1997 Apr;25(2):200. Comment on: Anaesth Intensive Care 1996 Oct;24(5):599-600.
Blunting the hemodynamic response to skull-pin placement [letter; comment] Colley PS. **Anesth Analg** 1997 Apr; 84(4):942. Comment on: Anesth Analg 1996 Dec;83(6):1256-61.
The effects of bupivacaine and ropivacaine on baroreflex sensitivity with or without respiratory acidosis and alkalosis in rats. Watanabe Y, et al. **Anesth Analg** 1997 Feb; 84(2):398-404
Bupivacaine preferentially blocks ventral root axons in rats. Dietz FB, et al. **Anesthesiology** 1997 Jan;86(1):172-80
Pregnancy does not increase susceptibility to bupivacaine in spinal root axons. Dietz FB, et al. **Anesthesiology** 1997 Sep; 87(3):610-6
Stereospecific effect of bupivacaine isomers on atrioventricular conduction in the isolated perfused guinea pig heart. Graf BM, et al. **Anesthesiology** 1997 Feb; 86(2):410-9
Direct effects of ropivacaine and bupivacaine on spinal pial vessels in canine. Assessment with closed spinal window technique. Iida H, et al. **Anesthesiology** 1997 Jul;87(1):75-81
Inhibition of lysophosphatidate signaling by lidocaine and bupivacaine. Nietgen GW, et al. **Anesthesiology** 1997 May; 86(5):1112-9
The effect of epidural bupivacaine on the fetal electrocardiogram [letter; comment] Murray H. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):248-50. Comment on: Aust N Z J Obstet Gynaecol 1996 Aug;36(3):272-4.
The effect of epidural bupivacaine on the fetal electrocardiogram [see comments] Phillips K, et al. **Aust N Z J Obstet Gynaecol** 1996 Aug;36(3):272-4. Comment in: Aust N Z J Obstet Gynaecol 1997 May;37(2):248-50.
Hypnotic effect of i.v. propofol is enhanced by i.m. administration of either lignocaine or bupivacaine. Ben-Shlomo I, et al. **Br J Anaesth** 1997 Apr;78(4):375-7
Spinal anaesthesia inhibits central temporal summation. Curatolo M, et al. **Br J Anaesth** 1997 Jan;78(1):88-9
Reduction of autotomy following peripheral neurectomy by a single injection of bupivacaine into the cingulum bundle of rats. Magnusson JE, et al. **Brain Res** 1996 Jun 3; 723(1-2):214-7
Potassium channel agonists modify the local anaesthetic activity of bupivacaine in mice. Gantenbein M, et al. **Can J Anaesth** 1996 Aug;43(8):871-6
Maternal and fetal effects of adrenaline with bupivacaine (0.25%) for epidural analgesia during labour. Dounas M, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):594-8
Changes in serum enzyme activities after injection of bupivacaine into rat tibialis anterior. Nosaka K. **J Appl Physiol** 1996 Aug;81(2):876-84
Comparative effects of plain and epinephrine-containing bupivacaine on the hemodynamic response to cervical plexus anesthesia in patients undergoing carotid endarterectomy. McGlade DP, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):593-7
The recovery of long-term denervated rat muscles after Marcaine treatment and grafting. Billington L, et al. **J Neurol Sci** 1996 Dec;144(1-2):147-55
Regional cutaneous differences in the duration of bupivacaine local anesthesia in mice. Smith FL. **Life Sci** 1997; 60(18):1613-21
Effects of bupivacaine and its isomers on guinea pig tracheal smooth muscle. Lee TL, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan-Feb; 19(1):27-33
Ketamine enhances local anesthetic and analgesic effects of bupivacaine by peripheral mechanism: a study in postoperative patients. Tverskoy M, et al. **Neurosci Lett** 1996 Aug 30;215(1):5-8
Changes in membrane potential induced by local anesthetic bupivacaine on mitochondria within Ehrlich ascites tumor cells. Pulselli R, et al. **Oncol Res** 1996;8(7-8):267-71
Distinct electrophysiological effects of two spinally administered membrane stabilising drugs, bupivacaine and lamotrigine. Chapman V, et al. **Pain** 1997 Jul;71(3):285-95
Isobolographic analysis of the interaction between epidural sufentanil and bupivacaine in rats. Vercauteren M, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):237-42
Antinociceptive and motor-blocking efficacy of ropivacaine and bupivacaine after epidural administration in the dog. Feldman HS, et al. **Reg Anesth** 1996 Jul-Aug;21(4):318-26
Bactericidal activity of 0.5% bupivacaine with preservatives on microorganisms in the human skin flora. Sakuragi T, et al. **Reg Anesth** 1997 Mar-Apr;22(2):178-84
The effect of continuous lumbar epidural infusion of ropivacaine (0.1%, 0.2%, and 0.3%) and 0.25% bupivacaine on sensory and motor block in volunteers: a double-blind study. Zaric D, et al. **Reg Anesth** 1996 Jan-Feb;21(1):14-25
[Chronopharmacology. Time of day variations in the action of bupivacaine and not manifested in nerves] Holthusen H, et al. **Anaesthesist** 1997 Jul;46(7):588-91 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Intradiscal glycerol or bupivacaine in the treatment of low back pain. Kotilainen E, et al. **Acta Neurochir (Wien)** 1997; 139(6):541-5
Painful neuropathy of the lateral cutaneous nerve of the thigh in patients with AIDS: successful treatment by injection with bupivacaine and triamcinolone [letter] Myers KG, et al. **AIDS** 1996 Sep;10(11):1302-3
Treatment of medically and surgically refractory angina pectoris with high thoracic epidural analgesia: initial clinical experience. Gramling-Babb P, et al. **Am Heart J** 1997 Jun;133(6):648-55
Complication after interpleural analgesia [letter] Milliet N, et al. **Anesth Analg** 1996 Oct;83(4):890
Fetal heart rate changes after intrathecal sufentanil or epidural bupivacaine for labor analgesia: incidence and clinical significance. Nielsen PE, et al. **Anesth Analg** 1996 Oct;83(4):742-6
Intrathecal infusion of bupivacaine with or without morphine for postoperative analgesia after hip and knee arthroplasty. Bachmann M, et al. **Br J Anaesth** 1997 Jun;78(6):666-70
Evaluation of the usefulness of intrathecal bupivacaine infusion for analgesia after hip and knee arthroplasty. Niemi L, et al. **Br J Anaesth** 1996 Oct;77(4):544-5
Pain prevention after vitreoretinal surgery [letter; comment] Gray PJ, et al. **Eye** 1995;9 (Pt 6):813-4. Comment on: Eye 1994;8 (Pt 6):714-6.
Peribulbar anaesthesia for cataract surgery: prilocaine versus lignocaine and bupivacaine. Henderson TR, et al. **Eye** 1996; 10 (Pt 4):497-500
Pre-incisional caudal epidural blockade and the relief of pain after lumbar spine operations. Kakiuchi M, et al. **Int Orthop** 1997;21(1):62-6
The effect of wound irrigation with bupivacaine on postoperative analgesia of the feline onychectomy patient. Winkler KP, et al. **J Am Anim Hosp Assoc** 1997 Jul-Aug; 33(4):346-52
Postthyroidectomy analgesia: morphine, buprenorphine, or bupivacaine? Lacoste L, et al. **J Clin Anesth** 1997 May; 9(3):189-93
Does sympathetic blockade prevent the physiologic changes associated with tourniquet use in children? Goodarzi M, et al. **J Pediatr Orthop** 1997 May-Jun;17(3):289-92
Post-operative pain relief in children following caudal bupivacaine and buprenorphine--a comparative study. Anilkumar TK, et al. **J Postgrad Med** 1994 Apr-Jun; 40(2):61-4
Reversal of a mitochondrial DNA defect in human skeletal muscle [letter] Clark KM, et al. **Nat Genet** 1997 Jul; 16(3):222-4
The influence of the timing of bupivacaine infiltration on the time course of inflammation induced by two carrageenin injections seven days apart. Fletcher D, et al. **Pain** 1997 Feb;69(3):303-9
Blockade of peripheral neuronal barrage reduces postoperative pain. Gordon SM, et al. **Pain** 1997 Apr; 70(2-3):209-15
Pain relief after knee arthroscopy: intra-articular morphine, intra-articular bupivacaine, or subcutaneous morphine? Cepeda MS, et al. **Reg Anesth** 1997 May-Jun;22(3):233-8
Results of sacroiliac joint double block and value of sacroiliac pain provocation tests in 54 patients with low back pain. Maigne JY, et al. **Spine** 1996 Aug 15;21(16):1889-92
[Treatment of inguinal hernias by classical approach and under local anesthesia] Lerut JP, et al. **Ann Chir** 1996; 50(9):747-54 (Eng. Abstr.) **(Fre)**
[Continuous epidural blockade as a method of treatment of low back pain syndrome in the course of disk pathology. Introductory research] Wolny T, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):409-18 (Eng. Abstr.) **(Pol)**
[Digital ischemia of the lower limb: reversion via sympathetic blockage] Valdivielso Serna A, et al. **An Esp Pediatr** 1997 Feb;46(2):202-4 **(Spa)**
[Analgesic effectiveness and repercussions on the progress of labor of small doses of bupivacaine and fentanyl in continuous peridural perfusion] García-Muñoz M, et al. **Rev Esp Anestesiol Reanim** 1997 Apr;44(4):135-9 (Eng. Abstr.) **(Spa)**

TOXICITY

Amrinone reverses bupivacaine-induced regional myocardial dysfunction. Fujita Y. **Acta Anaesthesiol Scand** 1996 Jan; 40(1):47-52
Modification of bupivacaine toxicity by nonselective versus neuronal nitric oxide synthesis inhibition. Shi B, et al. **Anesth Analg** 1997 Apr;84(4):804-9
Neurotoxicity of subarachnoid bupivacaine [letter; comment] Sakura S, et al. **Reg Anesth** 1997 Mar-Apr;22(2):198-9. Comment on: Reg Anesth 1996 May-Jun;21(3):234-8.

BUPRANOLOL

METABOLISM

A sensitive method for determination of cytochrome P4502D6 activity in vitro using bupranolol as substrate. Appanna G, et al. **Drug Metab Dispos** 1996 Mar;24(3):303–6

BUPRENORPHINE

ADMINISTRATION & DOSAGE

A protocol to switch high–dose, methadone–maintained subjects to buprenorphine. Levin FR, et al. **Am J Addict** 1997 Spring;6(2):105–16

Effects of epidural and intravenous buprenorphine on halothane minimum alveolar anesthetic concentration and hemodynamic responses. Inagaki Y, et al. **Anesth Analg** 1997 Jan;84(1):100–5

Buprenorphine for depression: the un–adoptable orphan [editorial] Callaway E. **Biol Psychiatry** 1996 Jun 15; 39(12):989–90

Epidural administered buprenorphine in the perioperative period. Miwa Y, et al. **Can J Anaesth** 1996 Sep;43(9):907–13

Dilatation of radiation–induced esophageal strictures under sublingual buprenorphine analgesia: a pilot study. Desai DC, et al. **Indian J Gastroenterol** 1997 Jan;16(1):14–5

Pain relief in chronic pancreatitis with epidural buprenorphine injection. Desai PM. **Indian J Gastroenterol** 1997 Jan;16(1):12–3

Comparative study of epidurally administered clonidine and buprenorphine on anesthetic requirement and electroencephalographic activity. Nishimi Y. **Keio J Med** 1996 Dec;45(4):324–31

Sublingual buprenorphine compared to morphine delivered by a patient–controlled analgesia system as postoperative analgesia after prostatectomy. Gaitini L, et al. **Urol Int** 1996;57(4):227–9

[Epidural administration of buprenorphine after combined spinal epidural anesthesia] Endoh M, et al. **Masui** 1996 Nov; 45(11):1396–9 (Eng. Abstr.) **(Jpn)**

[The effect of continuous epidural infusion of combination of buprenorphine and bupivacaine for postoperative pain relief using a portable 0.5 ml.h–1 type infuser with patient control module] Komatsu H, et al. **Masui** 1996 Jun; 45(6):735–40 (Eng. Abstr.) **(Jpn)**

[Epidural buprenorphine and epidural droperidol for post–operative nausea or vomiting] Yokoyama K, et al. **Masui** 1997 Jun;46(6):798–802 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Effect of epidural buprenorphine and clonidine on vesical functions in women. Batra YK, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):309–11

Pica behavior associated with buprenorphine administration in the rat. Clark JA Jr, et al. **Lab Anim Sci** 1997 Jun; 47(3):300–3

Respiratory depression following administration of low dose buprenorphine as postoperative analgesic after fentanyl balanced anaesthesia. Zanette G, et al. **Paediatr Anaesth** 1996;6(5):419–22

[Withdrawal syndrome in 2 drug addicts after intravenous injection of buprenorphine?] Gourarier L, et al. **Presse Med** 1996 Sep 21;25(27):1239–40 (Eng. Abstr.) **(Fre)**

[Transient myocardial ischemia secondary to the use of cocaine–like anesthetic drug] Elia LR, et al. **Ann Ital Med Int** 1996 Apr–Jun;11(2):140–3 (Eng. Abstr.) **(Ita)**

ANALOGS & DERIVATIVES

Determination of buprenorphine and norbuprenorphine in whole blood by liquid chromatography–mass spectrometry. Hoja H, et al. **J Anal Toxicol** 1997 Mar–Apr;21(2):160–5

Simultaneous assay of buprenorphine and norbuprenorphine by negative chemical ionization tandem mass spectrometry. Kuhlman JJ Jr, et al. **J Anal Toxicol** 1996 Jul–Aug; 20(4):229–35

Human pharmacokinetics of intravenous, sublingual, and buccal buprenorphine. Kuhlman JJ Jr, et al. **J Anal Toxicol** 1996 Oct;20(6):369–78

Gas chromatographic–mass spectrometric quantitation of urinary buprenorphine and norbuprenorphine after derivatization by direct extractive alkylation. Lisi AM, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):67–77

HPLC/MS determination of buprenorphine and norbuprenorphine in biological fluids and hair samples. Tracqui A, et al. **J Forensic Sci** 1997 Jan;42(1):111–4

Kinetics of respiratory depression in rats induced by buprenorphine and its metabolite, norbuprenorphine. Ohtani M, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):428–33

ANALYSIS

HPLC/MS determination of buprenorphine and norbuprenorphine in biological fluids and hair samples. Tracqui A, et al. **J Forensic Sci** 1997 Jan;42(1):111–4

BLOOD

Determination of buprenorphine and norbuprenorphine in whole blood by liquid chromatography–mass spectrometry. Hoja H, et al. **J Anal Toxicol** 1997 Mar–Apr;21(2):160–5

Simultaneous assay of buprenorphine and norbuprenorphine by negative chemical ionization tandem mass spectrometry. Kuhlman JJ Jr, et al. **J Anal Toxicol** 1996 Jul–Aug; 20(4):229–35

Analysis of buprenorphine in rat plasma using a solid–phase extraction technique and high–performance liquid chromatography with electrochemical detection. Salem A, et al. **J Pharmacol Toxicol Methods** 1997 Mar;37(2):75–81

METABOLISM

Opioid receptor imaging and displacement studies with [6–O–[11C] methyl]buprenorphine in baboon brain. Galynker I, et al. **Nucl Med Biol** 1996 Apr;23(3):325–31

PHARMACOKINETICS

Transdermal prodrug concepts: permeation of buprenorphine and its alkyl esters through hairless mouse skin and influence of vehicles. Imoto H, et al. **Biol Pharm Bull** 1996 Feb;19(2):263–7

The pharmacokinetics and physiological effects of buprenorphine infusion in premature neonates. Barrett DA, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):215–9

Human pharmacokinetics of intravenous, sublingual, and buccal buprenorphine. Kuhlman JJ Jr, et al. **J Anal Toxicol** 1996 Oct;20(6):369–78

Bioavailability of sublingual buprenorphine. Mendelson J, et al. **J Clin Pharmacol** 1997 Jan;37(1):31–7

Involvement of cytochrome P450 3A4 in N–dealkylation of buprenorphine in human liver microsomes. Iribarne C, et al. **Life Sci** 1997;60(22):1953–64

Permeation of buprenorphine and its 3–alkyl–ester prodrugs through human skin. Stinchcomb AL, et al. **Pharm Res** 1996 Oct;13(10):1519–23

PHARMACOLOGY

Effects of acepromazine and buprenorphine on measured indices of the signal–averaged electrocardiogram in healthy dogs. Kushner LI, et al. **Am J Vet Res** 1996 Oct; 57(10):1511–4

Effects of epidural and intravenous buprenorphine on halothane minimum alveolar anesthetic concentration and hemodynamic responses. Inagaki Y, et al. **Anesth Analg** 1997 Jan;84(1):100–5

Buprenorphine and naloxone interactions in methadone maintenance patients. Mendelson J, et al. **Biol Psychiatry** 1997 Jun 1;41(11):1095–101

Extradural buprenorphine suppresses breast feeding after caesarean section. Hirose M, et al. **Br J Anaesth** 1997 Jul; 79(1):120–1

Pharmacological characterization of buprenorphine, a mixed agonist–antagonist with kappa 3 analgesia. Pick CG, et al. **Brain Res** 1997 Jan 2;744(1):41–6

Effects of buprenorphine and an alternative nondrug reinforcer, alone and in combination on smoked cocaine self–administration in monkeys. Rodefer JS, et al. **Drug Alcohol Depend** 1997 Apr 14;45(1–2):21–9

Gastrointestinal actions of buprenorphine: are different receptors involved? Bhounsule SA, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):253–6

The analgesic drug buprenorphine inhibits osteoclastic bone resorption in vitro, but is proinflammatory in rat adjuvant arthritis. Hall TJ, et al. **Inflamm Res** 1996 Jun;45(6):299–302

Effect of mu–opioids morphine and buprenorphine on the development of adjuvant arthritis in rats. Walker JS, et al. **Inflamm Res** 1996 Nov;45(11):557–63

Discriminative stimulus effects of l–alpha–acetylmethadol (LAAM), buprenorphine and methadone in morphine–treated rhesus monkeys. Brandt MR, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):574–84

Effects of methadone or buprenorphine maintenance on the subjective and reinforcing effects of intravenous cocaine in humans. Foltin RW, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1153–64

Kinetics of respiratory depression in rats induced by buprenorphine and its metabolite, norbuprenorphine. Ohtani M, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):428–33

Comparing the subjective, psychomotor and physiological effects of intravenous buprenorphine and morphine in healthy volunteers. Zacny JP, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1187–97

Protective effects of buprenorphine against amplified cocaine and ethanol lethality in mice: role of cocaethylene. Hayase T, et al. **J Toxicol Sci** 1996 May;21(2):143–56

Antinociceptive effect of buprenorphine in mu1–opioid receptor deficient CXBK mice. Kamei J, et al. **Life Sci** 1997;60(22):PL 333–7

Prenatal administration of buprenorphine in the rat: effects on the rest–activity cycle at 22 and 30 days of age. Hutchings DE, et al. **Pharmacol Biochem Behav** 1996 Dec; 55(4):607–13

Combined effects of buprenorphine and a nondrug alternative reinforcer on i.v. cocaine self–administration in rats maintained under FR schedules. Comer SD, et al. **Psychopharmacology (Berl)** 1996 Jun;125(4):355–60

Motivational properties of buprenorphine as assessed by place and taste conditioning in rats. Gaiardi M, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):104–8

Discriminative stimulus effects of buprenorphine in the rat. Holtzman SG. **Psychopharmacology (Berl)** 1997 Apr; 130(3):292–9

The effects of buprenorphine in buprenorphine–maintained volunteers. Strain EC, et al. **Psychopharmacology (Berl)** 1997 Feb;129(4):329–38

THERAPEUTIC USE

A pilot study of primary–care–based buprenorphine maintenance for heroin dependence. O'Connor PG, et al. **Am J Drug Alcohol Abuse** 1996 Nov;22(4):523–31

Transcutaneous cranial electrical stimulation (Limoge's currents) decreases early buprenorphine analgesic requirements after abdominal surgery. Mignon A, et al. **Anesth Analg** 1996 Oct;83(4):771–5

Three methods of opioid detoxification in a primary care setting. A randomized trial. O'Connor PG, et al. **Ann Intern Med** 1997 Oct 1;127(7):526–30

Buprenorphine vs methadone maintenance treatment for concurrent opioid dependence and cocaine abuse [see comments] Schottenfeld RS, et al. **Arch Gen Psychiatry** 1997 Aug;54(8):713–20. Comment in: Arch Gen Psychiatry 1997 Aug;54(8):691–4.

P300 assessment of opiate and cocaine users: effects of detoxification and buprenorphine treatment. Kouri EM, et al. **Biol Psychiatry** 1996 Oct 1;40(7):617–28

Buprenorphine and naloxone interactions in methadone maintenance patients. Mendelson J, et al. **Biol Psychiatry** 1997 Jun 1;41(11):1095–101

Controlled opioid withdrawal evaluation during 72 h dose omission in buprenorphine–maintained patients. Eissenberg T, et al. **Drug Alcohol Depend** 1997 Apr 14;45(1–2):81–91

Oral tramadol and buprenorphine in tumour pain. An Italian multicentre trial. Brema F, et al. **Int J Clin Pharmacol Res** 1996;16(4–5):109–16

Pre–incisional caudal epidural blockade and the relief of pain after lumbar spine operations. Kakiuchi M, et al. **Int Orthop** 1997;21(1):62–6

Postthyroidectomy analgesia: morphine, buprenorphine, or bupivacaine? Lacoste L, et al. **J Clin Anesth** 1997 May; 9(3):189–93

Buprenorphine versus methadone in the treatment of opioid dependence: self–reports, urinalysis, and addiction severity index. Strain EC, et al. **J Clin Psychopharmacol** 1996 Feb; 16(1):58–67

Post–operative pain relief in children following caudal bupivacaine and buprenorphine—a comparative study. Anilkumar TK, et al. **J Postgrad Med** 1994 Apr–Jun; 40(2):61–4

Ganglionic local opioid analgesia for refractory trigeminal neuralgia [letter] Spacek A, et al. **Lancet** 1997 May 24; 349(9064):1521

[Effectiveness and tolerance of tramadol in cancer pain. A comparative study with respect to buprenorphine] Bono AV, et al. **Drugs** 1997;53 Suppl 2:40–9 (Eng. Abstr.) **(Fre)**

[Clinical use of sublingual buprenorphine hydrochloride for analgesia in the early postoperative period] Lebedeva RN, et al. **Anesteziol Reanimatol** 1996 Jul–Aug;(4):22–5 (Eng. Abstr.) **(Rus)**

[Case of prolonged use of high doses of opiates and opioids by oncologic surgical patient] Petrova VV, et al. **Anesteziol Reanimatol** 1996 Jul–Aug;(4):21–2 **(Rus)**

URINE

Screening for drugs of abuse (II): Cannabinoids, lysergic acid diethylamide, buprenorphine, methadone, barbiturates, benzodiazepines and other drugs. Simpson D, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):460–510 (408 ref.)

A simple thin–layer chromatographic method for the analysis of buprenorphine in urine. Alemany G, et al. **Biomed Chromatogr** 1996 May–Jun;10(3):146–7

Gas chromatographic–mass spectrometric quantitation of urinary buprenorphine and norbuprenorphine after derivatization by direct extractive alkylation. Lisi AM, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):67–77

BUPROPION

ADMINISTRATION & DOSAGE

A comparison of sustained–release bupropion and placebo for smoking cessation [see comments] Hurt RD, et al. **N Engl J Med** 1997 Oct 23;337(17):1195–202. Comment in: N Engl J Med 1997 Oct 23;337(17):1230–1.

ADVERSE EFFECTS

Retrospective study of selegiline–antidepressant drug interactions and a review of the literature. Ritter JL, et al. **Ann Clin Psychiatry** 1997 Mar;9(1):7–13 (37 ref.)

Spontaneous orgasm with the combined use of bupropion and sertraline [letter] Grimes JB, et al. **Biol Psychiatry** 1996 Dec 1;40(11):1184–5

Reversible dyskinesia during bupropion therapy [letter] Gardos G. **J Clin Psychiatry** 1997 May;58(5):218

SSRIs, bupropion, and sexual function. Edens N, et al. **J Fam Pract** 1997 Aug;45(2):101–2

BLOOD

Enantiomeric determination of the phenylmorpholinol metabolite of bupropion in human plasma using coupled achiral–chiral liquid chromatography. Suckow RF, et al.

Biomed Chromatogr 1997 May-Jun;11(3):174-9
Bupropion plasma levels and CYP2D6 phenotype. Pollock BG, et al. **Ther Drug Monit** 1996 Oct;18(5):581-5

PHARMACOLOGY

The effects of bupropion in vivo in the neostriatum of 5-day-old and adult rats. Gazzara RA, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):139-42
Comparative sexual side effects of bupropion, fluoxetine, paroxetine, and sertraline. Modell JG, et al. **Clin Pharmacol Ther** 1997 Apr;61(4):476-87
Bupropion induces sniffing: a possible dopaminergic mechanism. Zarrindast MR, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):299-303
Differential regulation of dopamine transporter after chronic self-administration of bupropion and nomifensine. Tella SR, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):508-13
Sexual side effects of antidepressants: a review. Margolese HC, et al. **J Sex Marital Ther** 1996 Fall;22(3):209-17 (68 ref.)

POISONING

Fatal bupropion overdose. Harris CR, et al. **J Toxicol Clin Toxicol** 1997;35(3):321-4

THERAPEUTIC USE

Two products join ranks of smoking cessation treatments [news] **Am J Health Syst Pharm** 1997 Jul 1;54(13):1478
Treatment of bipolar disorder [letter; comment] Whitefield SG, et al. **Am J Psychiatry** 1996 Nov;153(11):1511; discussion 1511-2. Comment on: Am J Psychiatry 1995 Nov;152(11):1635-40.
A multicenter trial of bupropion for cocaine dependence in methadone-maintained patients. Margolin A, et al. **Drug Alcohol Depend** 1995 Dec;40(2):125-31
Treatment of headache with bupropion [letter] Goodman JF. **Headache** 1997 Apr;37(4):256
Bupropion hydrochloride in attention deficit disorder with hyperactivity. Conners CK, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Oct; 35(10):1314-21
Combining serotonin reuptake inhibitors and bupropion in partial responders to antidepressant monotherapy. Bodkin JA, et al. **J Clin Psychiatry** 1997 Apr;58(4):137-45
Functional status in depressed patients: the relationship to disease severity and disease resolution. Mauskopf JA, et al. **J Clin Psychiatry** 1996 Dec;57(12):588-92
Paroxetine/bupropion combination treatment for refractory depression [letter] Marshall RD, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):80-1
Comparison of fluoxetine, bupropion, and placebo in the treatment of premenstrual dysphoric disorder. Pearlstein TB, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):261-6
Bupropion (Zyban) for smoking cessation. **Med Lett Drugs Ther** 1997 Aug 15;39(1007):77-8
Treating tobacco addiction--nicotine or no nicotine? [editorial; comment] Benowitz NL. **N Engl J Med** 1997 Oct 23;337(17):1230-1. Comment on: N Engl J Med 1997 Oct 23;337(17):1195-202.
Venlafaxine or bupropion responders but not nonresponders show baseline prefrontal and paralimbic hypometabolism compared with controls. Little JT, et al. **Psychopharmacol Bull** 1996;32(4):629-35

BURDEN OF ILLNESS see **COST OF ILLNESS**

BURGESS VIRUS see **ECHOVIRUS 6**

BURIAL

HISTORY

Twenty-five thousand-year-old triple burial from Dolní Věstonice: an ice-age family? Alt KW, et al. **Am J Phys Anthropol** 1997 Jan;102(1):123-31
[Detection of DNA single-copy sequences of prehistoric teeth. Site milieu as a factor for preservation of DNA] Burger J, et al. **Anthropol Anz** 1997 Jun;55(2):193-8 (Eng. Abstr.) **(Ger)**
[Biogenic decomposition of bone collagens] Turban-Just S. **Anthropol Anz** 1997 Jun;55(2):131-41 (Eng. Abstr.) **(Ger)**
[The complex forensic medical study of the bony remains from a burial long ago] Molin IuA, et al. **Sud Med Ekspert** 1997 Apr-Jun;40(2):38-41 (Eng. Abstr.) **(Rus)**

METHODS

Nitrogen levels in long bones from coffin burials interred for periods of 26-90 years. Jarvis DR. **Forensic Sci Int** 1997 Mar 14;85(3):199-208

BURKHOLDERIA

An outbreak of pseudobacteraemia caused by Burkholderia pickettii: the critical role of an epidemiological link. Luk WK. **J Hosp Infect** 1996 Sep;34(1):59-69

CHEMISTRY

Structure of the O-specific polysaccharide from Burkholderia vietnamiensis strain LMG 6998. Gaur D, et al. **Carbohydr Res** 1996 Dec 13;295:179-84
Structure of a new 6-deoxy-alpha-D-talan from Burkholderia (Pseudomonas) plantarii strain DSM 6535, which is different from the O-chain of the lipopolysaccharide. Zähringer U, et al. **Carbohydr Res** 1997 May 12;300(2):143-51
Measurement of three-bond coupling constants in the osmoregulated periplasmic glucan of Burkholderia solanacearum. Lippens G, et al. **J Biomol NMR** 1996 Oct; 8(3):311-8
[Structure of the O-specific polysaccharide chain from Burkholderia (Pseudomonas) solanacerum ICMP 750, 8093, 8115, 7864, and 7945 lipopolysaccharides] Varbanets LD, et al. **Biokhimiia** 1996 May;61(5):807-14 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Isolation from clinical sources of Burkholderia cepacia possessing characteristics of Burkholderia gladioli. Baxter IA, et al. **J Antimicrob Chemother** 1997 Feb;39(2):169-75
Comparison of biotyping, ribotyping, and pulsed-field gel electrophoresis for investigation of a common-source outbreak of Burkholderia pickettii bacteremia. Chetoui H, et al. **J Clin Microbiol** 1997 Jun;35(6):1398-403

ENZYMOLOGY

Cross-regulation of toluene monooxygenases by the transcriptional activators TbmR and TbuT. Leahy JG, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3736-9
Cascade regulation of the toluene-3-monooxygenase operon (tbuA1UBVA2C) of Burkholderia pickettii PKO1: role of the tbuA1 promoter (PtbuA1) in the expression of its cognate activator, TbuT. Byrne AM, et al. **J Bacteriol** 1996 Nov;178(21):6327-37
Identification, characterization, and cloning of a phosphonate monoester hydrolase from Burkholderia caryophilli PG2982. Dotson SB, et al. **J Biol Chem** 1996 Oct 18; 271(42):25754-61
A phosphonate monoester hydrolase from Burkholderia caryophilli PG2982 is useful as a conditional lethal gene in plants. Dotson SB, et al. **Plant J** 1996 Aug;10(2):383-92

GENETICS

Cross-regulation of toluene monooxygenases by the transcriptional activators TbmR and TbuT. Leahy JG, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3736-9
Purification and sequence analysis of 4-methyl-5-nitrocatechol oxygenase from Burkholderia sp. strain DNT. Haigler BE, et al. **J Bacteriol** 1996 Oct; 178(20):6019-24
A phosphonate monoester hydrolase from Burkholderia caryophilli PG2982 is useful as a conditional lethal gene in plants. Dotson SB, et al. **Plant J** 1996 Aug;10(2):383-92

IMMUNOLOGY

[Antigenic activity of Burkholderia solanacearum lipopolysaccharides] Varbanets LD, et al. **Biokhimiia** 1996 May;61(5):835-41 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Chronic granulomatous disease presenting as severe sepsis due to Burkholderia gladioli [letter] Hoare S, et al. **Clin Infect Dis** 1996 Aug;23(2):411
Isolation of an Acanthamoeba strain with intracellular Burkholderia pickettii infection. Michel R, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):541-57

METABOLISM

Comparison of factors influencing trichloroethylene degradation by toluene-oxidizing bacteria. Leahy JG, et al. **Appl Environ Microbiol** 1996 Mar;62(3):825-33
Structure of the O-specific polysaccharide from Burkholderia pickettii strain NCTC 11149. Galbraith L, et al. **Carbohydr Res** 1996 Mar 18;282(2):263-9
Genetic and biochemical characterization of the broad spectrum chlorobenzene dioxygenase from Burkholderia sp. strain PS12--dechlorination of 1,2,4,5-tetrachlorobenzene. Beil S, et al. **Eur J Biochem** 1997 Jul 1;247(1):190-9
2-Naphthoate catabolic pathway in Burkholderia strain JT 1500. Morawski B, et al. **J Bacteriol** 1997 Jan;179(1):115-21

BURKHOLDERIA CEPACIA

Investigation of nosocomial respiratory infection due to Pseudomonas cepacia by arbitrarily primed polymerase chain reaction. Miyawaki H, et al. **Diagn Microbiol Infect Dis** 1995 Nov;23(3):77-83
Epidemiology of pulmonary colonization with Burkholderia cepacia in cystic fibrosis patients. The French Observatoire Burkholderia cepacia Study Group [letter] Segonds C, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):841-2
Three-year outbreak of pseudobacteremia with Burkholderia cepacia traced to a contaminated blood gas analyzer [see comments] Gravel-Tropper D, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):737-40. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):718-20.
Nosocomial Burkholderia cepacia outbreaks and pseudo-outbreaks [editorial; comment] Mangram A, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):718-20 (22 ref.). Comment on: Infect Control Hosp Epidemiol 1996 Nov;17(11):737-40. Comment on: Infect Control Hosp Epidemiol 1996 Nov;17(11):741-3.
An outbreak of Burkholderia cepacia lower respiratory tract infection associated with contaminated albuterol nebulization solution [see comments] Reboli AC, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):741-3. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):718-20.
Epidemiology of Burkholderia cepacia infection in patients with cystic fibrosis: analysis by randomly amplified polymorphic DNA fingerprinting. Mahenthiralingam E, et al. **J Clin Microbiol** 1996 Dec;34(12):2914-20
Is Burkholderia (Pseudomonas) cepacia disseminated from cystic fibrosis patients during physiotherapy? Ensor E, et al. **J Hosp Infect** 1996 Jan;32(1):9-15
Bone graft contamination from a water de-ionizer during processing in a bone bank. Farrington M, et al. **J Hosp Infect** 1996 Jan;32(1):61-4
No cross-reactivity with filamentous hemagglutinin of Bordetella pertussis in sera from patients with nontypable Haemophilus influenzae pneumonia [letter] Trollfors B, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):558-9

CHEMISTRY

Structural elucidation of two polysaccharides present in the lipopolysaccharide of a clinical isolate of Burkholderia cepacia. Cérantola S, et al. **Eur J Biochem** 1997 Jun 1; 246(2):360-6
Induction of biologically active interleukin-8 from lung epithelial cells by Burkholderia (Pseudomonas) cepacia products. Palfreyman RW, et al. **Infect Immun** 1997 Feb; 65(2):617-22

CLASSIFICATION

PCR ribotyping and endonuclease subtyping in the epidemiology of Burkholderia cepacia infection. Shreve MR, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):984-9
Isolation from clinical sources of Burkholderia cepacia possessing characteristics of Burkholderia gladioli. Baxter IA, et al. **J Antimicrob Chemother** 1997 Feb;39(2):169-75

DRUG EFFECTS

Substituted amines synergistic with tobramycin against Burkholderia cepacia in vitro. Cohn RC, et al. **Chemotherapy** 1997 Mar-Apr;43(2):100-7

ENZYMOLOGY

Purification of hydroxyquinol 1,2-dioxygenase and maleylacetate reductase: the lower pathway of 2,4,5-trichlorophenoxyacetic acid metabolism by Burkholderia cepacia AC1100. Daubaras DL, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4276-9
Biodegradation of 2,4,5-trichlorophenoxyacetic acid by Burkholderia cepacia strain AC1100: evolutionary insight. Daubaras DL, et al. **Gene** 1996 Nov 7;179(1):1-8 (40 ref.)
The dsbB gene product is required for protease production by Burkholderia cepacia. Abe M, et al. **Infect Immun** 1996 Oct;64(10):4378-80
Affinity and response of Burkholderia pseudomallei and Burkholderia cepacia to insulin. Kanai K, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):584-91
The crystal structure of a triacylglycerol lipase from Pseudomonas cepacia reveals a highly open conformation in the absence of a bound inhibitor. Kim KK, et al. **Structure** 1997 Feb 15;5(2):173-85
The open conformation of a Pseudomonas lipase. Schrag JD, et al. **Structure** 1997 Feb 15;5(2):187-202

GENETICS

Burkholderia (Pseudomonas) cepacia epidemiology in a cystic fibrosis population: a genome finger-printing study. Cazzola G, et al. **Acta Paediatr** 1996 May;85(5):554-7
Nucleotide sequence analysis of a gene from Burkholderia (Pseudomonas) cepacia encoding an outer membrane lipoprotein involved in multiple antibiotic resistance. Burns JL, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):307-13
Structure of catechol 2,3-dioxygenase gene encoded in TOM plasmid of Pseudomonas cepacia G4. Oh JM, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):578-81
Molecular analysis of Burkholderia (Pseudomonas) cepacia: differentiation between relapse and reinfection in a case of recurrent bacteremia. Liu PY, et al. **Clin Infect Dis** 1996 Mar;22(3):584-6
Field inversion gel electrophoresis on Pseudomonas cepacia strains isolated from cystic fibrosis patients. Amalfitano G, et al. **Eur J Epidemiol** 1996 Apr;12(2):149-53
Genomic complexity and plasticity of Burkholderia cepacia. Lessie TG, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2-3):117-28 (51 ref.)
Identification and sequencing of a novel insertion sequence, IS1471, in Burkholderia cepacia strain 2a. Xia XS, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2-3):203-6
A genetic analysis system of Burkholderia cepacia: construction of mobilizable transposons and a cloning

vector. Abe M, et al. **Gene** 1996 Oct 3;174(2):191–4

Biodegradation of 2,4,5–trichlorophenoxyacetic acid by Burkholderia cepacia strain AC1100: evolutionary insight. Daubaras DL, et al. **Gene** 1996 Nov 7;179(1):1–8 (40 ref.)

Cloning and expression of the major porin protein gene opcP of Burkholderia (formerly Pseudomonas) cepacia in Escherichia coli. Tsujimoto H, et al. **Gene** 1997 Feb 20; 186(1):113–8

A fusion promoter created by a new insertion sequence, IS1490, activates transcription of 2,4,5–trichlorophenoxyacetic acid catabolic genes in Burkholderia cepacia AC1100. Hübner A, et al. **J Bacteriol** 1997 Apr;179(8):2717–23

Identification and characterization of a novel DNA marker associated with epidemic Burkholderia cepacia strains recovered from patients with cystic fibrosis. Mahenthiralingam E, et al. **J Clin Microbiol** 1997 Apr; 35(4):808–16

Genotypic analysis of Burkholderia cepacia isolates from 13 French cystic fibrosis centers. Segonds C, et al. **J Clin Microbiol** 1997 Aug;35(8):2055–60

Identification of IS1356, a new insertion sequence, and its association with IS402 in epidemic strains of Burkholderia cepacia infecting cystic fibrosis patients. Tyler SD, et al. **J Clin Microbiol** 1996 Jul;34(7):1610–6

4–Methylphthalate catabolism in Burkholderia (Pseudomonas) cepacia Pc701: a gene encoding a phthalate–specific permease forms part of a novel gene cluster. Saint CP, et al. **Microbiology** 1996 Sep;142 (Pt 9):2407–18

GROWTH & DEVELOPMENT

Absence of Burkholderia cepacia from the respiratory tract of non–cystic fibrosis patients [letter] Hyde J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):253–4

Molecular epidemiology of Burkholderia cepacia, Stenotrophomonas maltophilia, and Alcaligenes xylosoxidans in a cystic fibrosis center. Vu–Thien H, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):876–9

IMMUNOLOGY

Serum IgG response to an outer membrane porin protein of Burkholderia cepacia in patients with cystic fibrosis. Lacy DE, et al. **FEMS Immunol Med Microbiol** 1997 Feb; 17(2):87–94

Induction of biologically active interleukin–8 from lung epithelial cells by Burkholderia (Pseudomonas) cepacia products. Palfreyman RW, et al. **Infect Immun** 1997 Feb; 65(2):617–22

Differentiation of thermolysins and serralysins by monoclonal antibodies. Kooi C, et al. **J Med Microbiol** 1996 Sep; 45(3):219–25

ISOLATION & PURIFICATION

Burkholderia (Pseudomonas) cepacia and cystic fibrosis: the epidemiology in Belgium. Revets H, et al. **Acta Clin Belg** 1996;51(4):222–30

Environmental sampling to detect Burkholderia cepacia in a cystic fibrosis outpatient clinic [letter] Humphreys H, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):523–5

Lack of evidence of nosocomial cross–infection by Burkholderia cepacia among Danish cystic fibrosis patients. Ryley HC, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep; 15(9):755–8

Identification of Burkholderia cepacia isolates from patients with cystic fibrosis and use of a simple new selective medium. Henry DA, et al. **J Clin Microbiol** 1997 Mar; 35(3):614–9

Home–use nebulizers: a potential primary source of Burkholderia cepacia and other colistin–resistant, gram–negative bacteria in patients with cystic fibrosis [published erratum appears in J Clin Microbiol 1996 Jun;34(6):1601] Hutchinson GR, et al. **J Clin Microbiol** 1996 Mar;34(3):584–7

Subdural empyema due to Burkholderia cepacia: an unusual complication after lung transplantation for cystic fibrosis. Balfour–Lynn IM, et al. **J R Soc Med** 1997;90 Suppl 31:59–64

Polymerase chain reaction for the detection of Pseudomonas aeruginosa, Stenotrophomonas maltophilia and Burkholderia cepacia in sputum of patients with cystic fibrosis. Karpati F, et al. **Mol Cell Probes** 1996 Dec; 10(6):397–403

Distribution and transmission of Pseudomonas aeruginosa and Burkholderia cepacia in a hospital ward. Döring G, et al. **Pediatr Pulmonol** 1996 Feb;21(2):90–100

METABOLISM

Structural studies of the acidic exopolysaccharide produced by a mucoid strain of Burkholderia cepacia, isolated from cystic fibrosis. Cérantola S, et al. **Carbohydr Res** 1996 May 14;285:59–67

PATHOGENICITY

Identification of IS1356, a new insertion sequence, and its association with IS402 in epidemic strains of Burkholderia cepacia infecting cystic fibrosis patients. Tyler SD, et al. **J Clin Microbiol** 1996 Jul;34(7):1610–6

Burkholderia cepacia: medical, taxonomic and ecological issues. Govan JR, et al. **J Med Microbiol** 1996 Dec; 45(6):395–407 (129 ref.)

Multifactorial pathogenic mechanisms of Burkholderia pseudomallei as suggested from comparison with Burkholderia cepacia. Wongwanich S, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):111–8

PHYSIOLOGY

Invasion of respiratory epithelial cells by Burkholderia (Pseudomonas) cepacia. Burns JL, et al. **Infect Immun** 1996 Oct;64(10):4054–9

BURKHOLDERIA INFECTIONS

COMPLICATIONS

Lack of evidence of nosocomial cross–infection by Burkholderia cepacia among Danish cystic fibrosis patients. Ryley HC, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep; 15(9):755–8

Epidemiology of pulmonary colonization with Burkholderia cepacia in cystic fibrosis patients. The French Observatoire Burkholderia cepacia Study Group [letter] Segonds C, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):841–2

Epidemiology of Burkholderia cepacia infection in patients with cystic fibrosis: analysis by randomly amplified polymorphic DNA fingerprinting. Mahenthiralingam E, et al. **J Clin Microbiol** 1996 Dec;34(12):2914–20

Subdural empyema due to Burkholderia cepacia: an unusual complication after lung transplantation for cystic fibrosis. Balfour–Lynn IM, et al. **J R Soc Med** 1997;90 Suppl 31:59–64

Empyema and bloodstream infection caused by Burkholderia gladioli in a patient with cystic fibrosis after lung transplantation. Khan SU, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):637–9 (14 ref.)

Lung infection with Burkholderia gladioli in a child with cystic fibrosis: acute clinical and spirometric deterioration. Barker PM, et al. **Pediatr Pulmonol** 1997 Feb;23(2):123–5

DIAGNOSIS

Absence of Burkholderia cepacia from the respiratory tract of non–cystic fibrosis patients [letter] Hyde J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):253–4

Immunobiological diagnosis of tropical ocular diseases: Toxocara, Pythium insidiosum, Pseudomonas (Burkholderia) pseudomallei, Mycobacterium chelonei and Toxoplasma gondii. Srimuang S, et al. **Int J Tissue React** 1996;18(1):23–5

No cross–reactivity with filamentous hemagglutinin of Bordetella pertussis in sera from patients with nontypable Haemophilus influenzae pneumonia [letter] Trollfors B, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):558–9

DRUG THERAPY

Chronic granulomatous disease presenting as severe sepsis due to Burkholderia gladioli [letter] Hoare S, et al. **Clin Infect Dis** 1996 Aug;23(2):411

ENZYMOLOGY

Affinity and response of Burkholderia pseudomallei and Burkholderia cepacia to insulin. Kanai K, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):584–91

EPIDEMIOLOGY

PCR ribotyping and endonuclease subtyping in the epidemiology of Burkholderia cepacia infection. Shreve MR, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):984–9

Investigation of nosocomial respiratory infection due to Pseudomonas cepacia by arbitrarily primed polymerase chain reaction. Miyawaki H, et al. **Diagn Microbiol Infect Dis** 1995 Nov;23(3):77–83

Absence of Burkholderia cepacia from the respiratory tract of non–cystic fibrosis patients [letter] Hyde J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):253–4

Epidemiology of pulmonary colonization with Burkholderia cepacia in cystic fibrosis patients. The French Observatoire Burkholderia cepacia Study Group [letter] Segonds C, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):841–2

Molecular epidemiology of Burkholderia cepacia, Stenotrophomonas maltophilia, and Alcaligenes xylosoxidans in a cystic fibrosis center. Vu–Thien H, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):876–9

Epidemiology of Burkholderia cepacia infection in patients with cystic fibrosis: analysis by randomly amplified polymorphic DNA fingerprinting. Mahenthiralingam E, et al. **J Clin Microbiol** 1996 Dec;34(12):2914–20

ETIOLOGY

Nosocomial outbreak of Burkholderia pickettii infection due to a manufactured intravenous product used in three hospitals. Fernández C, et al. **Clin Infect Dis** 1996 Jun; 22(6):1092–5

Three–year outbreak of pseudobacteremia with Burkholderia cepacia traced to a contaminated blood gas analyzer [see comments] Gravel–Tropper D, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):737–40. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):718–20.

An outbreak of Burkholderia cepacia lower respiratory tract infection associated with contaminated albuterol nebulization solution [see comments] Reboli AC, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):741–3. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):718–20.

An outbreak of pseudobacteraemia caused by Burkholderia pickettii: the critical role of an epidemiological link. Luk WK. **J Hosp Infect** 1996 Sep;34(1):59–69

Microbial pathogenesis in cystic fibrosis: mucoid Pseudomonas aeruginosa and Burkholderia cepacia. Govan JR, et al. **Microbiol Rev** 1996 Sep;60(3):539–74 (492 ref.)

MICROBIOLOGY

Burkholderia (Pseudomonas) cepacia and cystic fibrosis: the epidemiology in Belgium. Revets H, et al. **Acta Clin Belg** 1996;51(4):222–30

Burkholderia (Pseudomonas) cepacia epidemiology in a cystic fibrosis population: a genome finger–printing study. Cazzola G, et al. **Acta Paediatr** 1996 May;85(5):554–7

Molecular analysis of Burkholderia (Pseudomonas) cepacia: differentiation between relapse and reinfection in a case of recurrent bacteremia. Liu PY, et al. **Clin Infect Dis** 1996 Mar;22(3):584–6

Field inversion gel electrophoresis on Pseudomonas cepacia strains isolated from cystic fibrosis patients. Amalfitano G, et al. **Eur J Epidemiol** 1996 Apr;12(2):149–53

Nosocomial Burkholderia cepacia outbreaks and pseudo–outbreaks [editorial; comment] Mangram A, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):718–20 (22 ref.). Comment on: Infect Control Hosp Epidemiol 1996 Nov;17(11):737–40. Comment on: Infect Control Hosp Epidemiol 1996 Nov;17(11):741–3.

Comparison of biotyping, ribotyping, and pulsed–field gel electrophoresis for investigation of a common–source outbreak of Burkholderia pickettii bacteremia. Chetoui H, et al. **J Clin Microbiol** 1997 Jun;35(6):1398–403

Identification and characterization of a novel DNA marker associated with epidemic Burkholderia cepacia strains recovered from patients with cystic fibrosis. Mahenthiralingam E, et al. **J Clin Microbiol** 1997 Apr; 35(4):808–16

Identification of IS1356, a new insertion sequence, and its association with IS402 in epidemic strains of Burkholderia cepacia infecting cystic fibrosis patients. Tyler SD, et al. **J Clin Microbiol** 1996 Jul;34(7):1610–6

Bone graft contamination from a water de–ionizer during processing in a bone bank. Farrington M, et al. **J Hosp Infect** 1996 Jan;32(1):61–4

Burkholderia cepacia: medical, taxonomic and ecological issues. Govan JR, et al. **J Med Microbiol** 1996 Dec; 45(6):395–407 (129 ref.)

PHYSIOPATHOLOGY

Mutagenesis of Burkholderia pseudomallei with Tn5–OT182: isolation of motility mutants and molecular characterization of the flagellin structural gene. DeShazer D, et al. **J Bacteriol** 1997 Apr;179(7):2116–25

RADIONUCLIDE IMAGING

Abnormal technetium labelled white cell scan in the colitis of chronic granulomatous disease. Hoare S, et al. **Arch Dis Child** 1997 Jul;77(1):50–1

TRANSMISSION

Nosocomial acquisition of Burkholderia gladioli in patients with cystic fibrosis. Wilsher ML, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1436–40

Environmental sampling to detect Burkholderia cepacia in a cystic fibrosis outpatient clinic [letter] Humphreys H, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):523–5

Is Burkholderia (Pseudomonas) cepacia disseminated from cystic fibrosis patients during physiotherapy? Ensor E, et al. **J Hosp Infect** 1996 Jan;32(1):9–15

Distribution and transmission of Pseudomonas aeruginosa and Burkholderia cepacia in a hospital ward. Döring G, et al. **Pediatr Pulmonol** 1996 Feb;21(2):90–100

BURKHOLDERIA PSEUDOMALLEI

Burkholderia pseudomallei activates complement and is ingested but not killed by polymorphonuclear leukocytes. Egan AM, et al. **Infect Immun** 1996 Dec;64(12):4952–9

[Thermostable Pseudomonas pseudomallei hemolysin] Denisov II, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):16–9 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Characterization of the capsular polysaccharide of Burkholderia (Pseudomonas) pseudomallei 304b. Masoud H, et al. **J Bacteriol** 1997 Sep;179(18):5663–9

CLASSIFICATION

Ribotype differences between clinical and environmental isolates of Burkholderia pseudomallei. Trakulsomboon S, et al. **J Med Microbiol** 1997 Jul;46(7):565–70

DRUG EFFECTS

In-vitro activity of carbapenem antibiotics against beta-lactam susceptible and resistant strains of Burkholderia pseudomallei. Smith MD, et al. **J Antimicrob Chemother** 1996 Mar;37(3):611-5

Comparative in vitro susceptibility of Burkholderia Pseudomallei to cefpirome, ceftazidime and cefepime [letter] Seymour-Murray J, et al. **Pathology** 1997 Aug; 29(3):329-30

ENZYMOLOGY

Affinity and response of Burkholderia pseudomallei and Burkholderia cepacia to insulin. Kanai K, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):584-91

Evolution of cell-surface acid phosphatase of Burkholderia pseudomallei. Kondo E, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):592-9

GENETICS

Transformation of Burkholderia pseudomallei by electroporation. Mack K, et al. **Anal Biochem** 1996 Nov 1;242(1):73-6

Characterization of Burkholderia pseudomallei and Burkholderia pseudomallei-like strains. Brett PJ, et al. **Epidemiol Infect** 1997 Apr;118(2):137-48

Mutagenesis of Burkholderia pseudomallei with Tn5-OT182: isolation of motility mutants and molecular characterization of the flagellin structural gene. DeShazer D, et al. **J Bacteriol** 1997 Apr;179(7):2116-25

Detection of Burkholderia pseudomallei DNA in patients with septicemic melioidosis. Dharakul T, et al. **J Clin Microbiol** 1996 Mar;34(3):609-14

Ribotype differences between clinical and environmental isolates of Burkholderia pseudomallei. Trakulsomboon S, et al. **J Med Microbiol** 1997 Jul;46(7):565-70

Ribotyping and DNA macrorestriction analysis of isolates of Burkholderia pseudomallei from cases of melioidosis in Malaysia. Vadivelu J, et al. **Trans R Soc Trop Med Hyg** 1997 May-Jun;91(3):358-60

[Creation of genomic DNA libraries for Pseudomonas mallei and Pseudomonas pseudomallei] Abaev IV, et al. **Mol Gen Mikrobiol Virusol** 1997;(1):17-22 (Eng. Abstr.) **(Rus)**

[Insertion mutations in Pseudomonas pseudomallei genome induced by transposons Tn10. Tn9, and Tn5] Merinova LK, et al. **Mol Gen Mikrobiol Virusol** 1997;(1):14-7 (Eng. Abstr.) **(Rus)**

[Effect of TRA-system of plasmids RP4 and R68.45 on pseudomonas mallei virulence] Verevkin VV, et al. **Vestn Ross Akad Med Nauk** 1997;(6):37-40 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Speed of detection of Burkholderia pseudomallei in blood cultures and its correlation with the clinical outcome. Tiangpitayakorn C, et al. **Am J Trop Med Hyg** 1997 Jul; 57(1):96-9

Laboratory investigation of ecological factors influencing the environmental presence of Burkholderia pseudomallei. Tong S, et al. **Microbiol Immunol** 1996;40(6):451-3

IMMUNOLOGY

Diagnostic value of an antibody enzyme-linked immunosorbent assay using affinity-purified antigen in an area endemic for melioidosis. Dharakul T, et al. **Am J Trop Med Hyg** 1997 Apr;56(4):418-23

Production of specific monoclonal antibodies to Burkholderia pseudomallei and their diagnostic application. Pongsunk S, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):43-7

Enzyme-linked immunosorbent assay (ELISA) using a glycolipid antigen for the serodiagnosis of melioidosis. Phung LV, et al. **FEMS Immunol Med Microbiol** 1995 Dec; 12(3-4):259-64

Specificity and functional activity of anti-Burkholderia pseudomallei polysaccharide antibodies. Ho M, et al. **Infect Immun** 1997 Sep;65(9):3648-53

Indirect hemagglutination antibodies against Burkholderia pseudomallei in normal blood donors and suspected cases of melioidosis in Malaysia. Norazah A, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):263-6

[Immunogenic potential of glanders and melioidosis agents] Kalachev II, et al. **Vestn Ross Akad Med Nauk** 1997; (6):32-7 (Eng. Abstr.) **(Rus)**

[The immunogenicity and heterogeneity of Pseudomonas pseudomallei surface antigen 8] Piven' NN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul-Aug;(4):75-8 (Eng. Abstr.) **(Rus)**

[The immune response to Pseudomonas pseudomallei in vitro] Titova NG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan-Feb;(1):62-5 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Burkholderia pseudomallei infection in the Singapore Armed Forces from 1987 to 1994--an epidemiological review. Lim MK, et al. **Ann Acad Med Singapore** 1997 Jan;26(1):13-7

Septicemia and suppuration in a Vietnam veteran. Chodimella U, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):219-21

Melioidosis In India: the tip of the iceberg? John TJ, et al. **Indian J Med Res** 1996 Jan;103:62-5

Disseminated melioidosis. Cherian T, et al. **Indian Pediatr** 1996 May;33(5):403-6

Isolation and identification of Burkholderia pseudomallei from soil using selective culture techniques and the polymerase chain reaction. Brook MD, et al. **J Appl Microbiol** 1997 May;82(5):589-96

Detection of Burkholderia pseudomallei in blood samples using polymerase chain reaction. Rattanathongkom A, et al. **Mol Cell Probes** 1997 Feb;11(1):25-31

Geographical distribution of Pseudomonas pseudomallei in China. Yang S, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):636-8

METABOLISM

Biochemical characteristics of clinical and environmental isolates of Burkholderia pseudomallei. Wuthiekanun V, et al. **J Med Microbiol** 1996 Dec;45(6):408-12

PATHOGENICITY

Characterization of Burkholderia pseudomallei and Burkholderia pseudomallei-like strains. Brett PJ, et al. **Epidemiol Infect** 1997 Apr;118(2):137-48

Biological activities of lipopolysaccharide of Burkholderia (Pseudomonas) pseudomallei. Matsuura M, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):79-83

Toxin production by Burkholderia pseudomallei strains and correlation with severity of melioidosis. Haase A, et al. **J Med Microbiol** 1997 Jul;46(7):557-63

Multifactorial pathogenic mechanisms of Burkholderia pseudomallei as suggested from comparison with Burkholderia cepacia. Wongwanich S, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):111-8

[Effect of TRA-system of plasmids RP4 and R68.45 on pseudomonas mallei virulence] Verevkin VV, et al. **Vestn Ross Akad Med Nauk** 1997;(6):37-40 (Eng. Abstr.) **(Rus)**

BURKITT HERPESVIRUS see **HERPESVIRUS 4, HUMAN**

BURKITT'S LEUKEMIA see **LEUKEMIA, B-CELL, ACUTE**

BURKITT'S LYMPHOMA

Primary Burkitt's lymphoma of the liver: report of a case with long-term survival after surgical resection and combination chemotherapy. Huang CB, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr;19(2):135-8

[Burkitt lymphoma in Cameroon children: descriptive and clinico-anatomical aspects] Doumbé P, et al. **Bull Cancer** 1997 Apr;84(4):379-83 (27 ref.) (Eng. Abstr.) **(Fre)**

[A case report of primary Burkitt lymphoma of the rectum] Arano Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):743-6 **(Jpn)**

[Burkitt's lymphoma with onset in the thyroid gland. A case report (letter)] García Calzado MC, et al. **Med Clin (Barc)** 1997 Apr 12;108(14):556-7 **(Spa)**

COMPLICATIONS

EBV-associated anorectal lymphomas in patients with acquired immune deficiency syndrome. Ioachim HL, et al. **Am J Surg Pathol** 1997 Sep;21(9):997-1006 (56 ref.)

Superior vena cava tumoral thrombosis revealing a Burkitt's lymphoma and a lymphoblastic non-Hodgkin's lymphoma. A case report. Juimo AG, et al. **Angiology** 1997 Mar; 48(3):263-8

Hypertension and acute renal failure in Nigerian children with Burkitt's lymphoma: report of three cases and review. Olowu WA. **Ann Trop Paediatr** 1997 Jun;17(2):169-74

Treatment of Burkitt's lymphoma in HIV-positive patients. Straus DJ. **Biomed Pharmacother** 1996;50(9):447-50 (29 ref.)

Rheumatic disease patients, prone to Sjögren's syndrome and/or lymphoma, mount an antibody response to BHRF1, the Epstein-Barr viral homologue of BCL-2. Newkirk MM, et al. **Br J Rheumatol** 1996 Nov;35(11):1075-81

Spinal cord compression resulting from Burkitt's lymphoma in children. Dechambenoit G, et al. **Childs Nerv Syst** 1996 Apr;12(4):210-4

Diverse properties of human t(8;14) neoplasms: [1] ATLS and absence of BCL-2 [2] modulation of RAG-1 expression with S-Ig ligation. Tani A, et al. **Hum Cell** 1996 Dec; 9(4):337-44

Primary effusion Burkitt's lymphoma with t(8;22) in a patient with hepatitis C virus-related cirrhosis. Ascoli V, et al. **Hum Pathol** 1997 Jan;28(1):101-4

Burkitt-type lymphoma [letter; comment] Schmitz J, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):204-5. Comment on: J Pediatr Gastroenterol Nutr 1995 Oct;21(3):308-12.

Penicillin-resistant Streptococcus mitis as a cause of septicemia with meningitis in febrile neutropenic children. Balkundi DR, et al. **J Pediatr Hematol Oncol** 1997 Jan-Feb; 19(1):82-5

Disseminated mycosis due to Scedosporium prolificans in an AIDS patient with Burkitt lymphoma. Nenoff P, et al. **Mycoses** 1996 Nov-Dec;39(11-12):461-5

Bilateral primary renal Burkitt lymphoma in a child presenting with acute renal failure. Sieniawska M, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1490-2

[Burkitt lymphoma as a rare cause of hydronephrosis] Lümmen G, et al. **Urologe A** 1997 May;36(3):239-42 (Eng. Abstr.) **(Ger)**

[Fever and abdominal pain in a patient with human immunodeficiency virus infection and Burkitt's lymphoma (clinical conference)] Ribas MA, et al. **Med Clin (Barc)** 1996 Dec 7;107(20):788-94 **(Spa)**

DIAGNOSIS

A case of Kabuki make-up syndrome with EBV+Burkitt's lymphoma. Ijichi O, et al. **Acta Paediatr Jpn** 1996 Feb; 38(1):66-8

Burkitt's lymphoma with intussusception mimicking a colonic polyp. Tai YH, et al. **Acta Paediatr Sin** 1996 Sep-Oct; 37(5):373-5

Analysis of the immunoglobulin heavy-chain gene rearrangement providing molecular evidence of second lymphoma in a patient in apparent relapse after autotransplantation. Campana S, et al. **Bone Marrow Transplant** 1997 Aug;20(4):341-3

Cytomorphology of primary CNS lymphoma: review of 23 cases and evidence for the role of EBV. Yu GH, et al. **Diagn Cytopathol** 1996 Mar;14(2):114-20

An unusual case of Burkitt's lymphoma of nasopharynx. Lata K, et al. **Indian J Pathol Microbiol** 1995 Jul;38(3):319-22

Ovarian Burkitt lymphoma: pelvic pain in a woman with AIDS. Neary B, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):706-8

[Detection of translocation t(8;14)(q24;132) in pediatric Burkitt's lymphomas using "long distance" polymerase chain reaction: a new method for diagnosis of Burkitt's lymphomas] zur Stadt U, et al. **Klin Padiatr** 1997 Jul-Aug: 209(4):165-71 (Eng. Abstr.) **(Ger)**

[Bilateral non-Hodgkin's lymphoma of the kidneys as the only manifestation] Hönecke KM, et al. **Urologe A** 1996 Jan;35(1):51-3 (Eng. Abstr.) **(Ger)**

[Bilateral primary lymphoma of the breasts detected in pregnancy] Illés A, et al. **Orv Hetil** 1996 Jun 16; 137(24):1315-7 (22 ref.) (Eng. Abstr.) **(Hun)**

[A case of non-endemic Burkitt's lymphoma of the colon] Scaglione M, et al. **Radiol Med (Torino)** 1997 Apr; 93(4):472-4 **(Ita)**

DRUG THERAPY

Intrathecal methotrexate overdose. Lee AC, et al. **Acta Paediatr** 1997 Apr;86(4):434-7 (15 ref.)

Eighty-one percent event-free survival in advanced Burkitt's lymphoma/leukemia: no differences in outcome between pediatric and adult patients treated with the same intensive pediatric protocol. Todeschini G, et al. **Ann Oncol** 1997; 8 Suppl 1:77-81

Effects of phosphodiester and phosphorothioate antisense oligodeoxynucleotides on cell lines which overexpress c-myc: implications for the treatment of Burkitt's lymphoma. Williams SA, et al. **Ann Oncol** 1997;8 Suppl 1:25-30

Treatment of Burkitt's lymphoma in HIV-positive patients. Straus DJ. **Biomed Pharmacother** 1996;50(9):447-50 (29 ref.)

In vivo efficacy and toxicity of a single-chain immunotoxin targeted to CD40. Francisco JA, et al. **Blood** 1997 Jun 15;89(12):4493-500

Mig, the monokine induced by interferon-gamma, promotes tumor necrosis in vivo. Sgadari C, et al. **Blood** 1997 Apr 15;89(8):2635-43

A comparison of a CB17 scid mouse model and the tetrazolium-dye assay using human haematological tumour cell lines. Cattan AR, et al. **Cancer Chemother Pharmacol** 1996;38(6):548-52

Severe central nervous adverse effect of intrathecal chemotherapy in a 16-yr-old patient with Burkitt's type lymphoma [letter] Geissler RG, et al. **Eur J Haematol** 1997 Apr;58(4):286-8

Combination of chemotherapy and antiviral therapy for Epstein-Barr virus-associated non-Hodgkin's lymphoma of high grade malignancy in cases of HIV infection. Brockmeyer NH, et al. **Eur J Med Res** 1997 Mar 24; 2(3):133-5

Therapeutic impact of adult-type acute lymphoblastic leukemia regimens in B-cell/L3 acute leukemia and advanced-stage Burkitt's lymphoma. Lerede T, et al. **Haematologica** 1996 Sep-Oct;81(5):442-9

Potential in vitro activity of Kutapressin against Epstein-Barr virus. Rosenfeld E, et al. **In Vivo** 1996 May-Jun;10(3):313-8

Highly potent CD22-recombinant ricin A results in complete cure of disseminated malignant B-cell xenografts in SCID mice but fails to cure solid xenografts in nude mice. Van Horssen PJ, et al. **Int J Cancer** 1996 Nov 4;68(3):378-83

Cationic lipids reduce time and dose of c-myc antisense oligodeoxynucleotides required to specifically inhibit Burkitt's lymphoma cell growth. Williams SA, et al. **Leukemia** 1996 Dec;10(12):1980-9

EPIDEMIOLOGY

Prevalence of Epstein-Barr viral sequences and EBV LMP1 oncogene deletions in Burkitt's lymphoma from Pakistan: epidemiological correlations. Mansoor A, et al.

Hum Pathol 1997 Mar;28(3):283–8

Predominance and characteristics of Burkitt lymphoma among children with non–Hodgkin lymphoma in northeastern Brazil. Sandlund JT, et al. **Leukemia** 1997 May;11(5):743–6

Burkitt's lymphoma—Winchester, Virginia. **MMWR Morb Mortal Wkly Rep** 1997 Jul 25;46(29):674–8

Burkitt's lymphoma in Brazil: strong association with Epstein–Barr virus. Bacchi MM, et al. **Mod Pathol** 1996 Jan;9(1):63–7

ETIOLOGY

Malignant lymphomas stem from different B cell populations. Kluin PM, et al. **Chem Immunol** 1997;67:70–84 (73 ref.)

Disseminated Burkitt's lymphoma after kidney transplantation: a case report in a boy with Drash syndrome. Ferrari A, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):151–5

Viral pathogenesis in hu–PBL–SCID mice [published erratum appears in Semin Immunol 1996 Oct;8(5):311] Mosier DE. **Semin Immunol** 1996 Aug;8(4):255–62 (87 ref.)

Epstein–Barr virus associated Burkitt lymphoma in a heart transplant recipient. Hunt BJ, et al. **Transplantation** 1996 Sep 27;62(6):869–72

[Idiopathic CD4+ T–lymphocytopenia terminating in Burkitt's lymphoma] Shimano S, et al. **Rinsho Ketsueki** 1997 Jul;38(7):599–603 (Eng. Abstr.) **(Jpn)**

GENETICS

Application of long PCR to detect t(8;14)(q24;q32) translocations in childhood Burkitt's lymphoma and B–ALL. zur Stadt U, et al. **Ann Oncol** 1997;8 Suppl 1:31–5

VH and VL gene analysis in sporadic Burkitt's lymphoma shows somatic hypermutation, intraclonal heterogeneity, and a role for antigen selection. Chapman CJ, et al. **Blood** 1996 Nov 1;88(9):3562–8

Familial Burkitt's lymphoma in Papua New Guinea. Winnett A, et al. **Br J Cancer** 1997;75(5):757–61

Clonal identification of Burkitt's lymphoma arising from lymphocyte–predominant Hodgkin's disease. Yoshinaga H, et al. **Br J Haematol** 1996 Nov;95(2):380–2

Role of the p53 tumor suppressor gene in the tumorigenicity of Burkitt's lymphoma cells. Cherney BW, et al. **Cancer Res** 1997 Jun 15;57(12):2508–15

Adhesion molecule CD11a/CD18–deficient Burkitt's lymphoma cells lack the transcript for the beta, but not the alpha, integrin subunit. Neira M, et al. **Eur J Haematol** 1997 Jan;58(1):32–9

G2 cell cycle arrest and apoptosis are induced in Burkitt's lymphoma cells by the anticancer agent oracin. Klucar J, et al. **FEBS Lett** 1997 Jan 2;400(1):127–30

Prevalence of Epstein–Barr viral sequences and EBV LMP1 oncogene deletions in Burkitt's lymphoma from Pakistan: epidemiological correlations. Mansoor A, et al. **Hum Pathol** 1997 Mar;28(3):283–8

What is Burkitt's lymphoma? [editorial] Wright DH. **J Pathol** 1997 Jun;182(2):125–7

Lack of CD54 expression and mutation of p53 gene relate to the prognosis of childhood Burkitt's lymphoma. Kaneko H, et al. **Leuk Lymphoma** 1996 May;21(5–6):449–55

Long distance polymerase chain reaction for detection of chromosome translocations in B–cell lymphoma/leukemia. Akasaka T, et al. **Leukemia** 1997 Apr;11 Suppl 3:316–7

Cationic lipids reduce time and dose of c–myc antisense oligodeoxynucleotides required to specifically inhibit Burkitt's lymphoma cell growth. Williams SA, et al. **Leukemia** 1996 Dec;10(12):1980–9

[Localization of 8q24 break–point of Burkitt lymphoma in Japan : relationship to EBV status] Tatsumi E, et al. **Nippon Rinsho** 1997 Feb;55(2):429–35 (21 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Modulation of macrophage inflammatory protein–1alpha and its receptors in human B–cell lines derived from patients with acquired immunodeficiency syndrome and Burkitt's lymphoma. Sharma V, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):576–81

Rheumatic disease patients, prone to Sjögren's syndrome and/or lymphoma, mount an antibody response to BHRF1, the Epstein–Barr viral homologue of BCL–2. Newkirk MM, et al. **Br J Rheumatol** 1996 Nov;35(11):1075–81

Requirement for CD4+ T cells in the gammadelta T cell proliferative response to Daudi Burkitt's lymphoma. Burns J, et al. **Cell Immunol** 1996 Nov 25;174(1):19–24

Differential immunogenicity of Epstein–Barr virus (EBV) encoded growth transformation–associated antigens in a murine model system. Trivedi P, et al. **Eur J Cancer** 1997 May;33(6):912–7

Activation and activation–induced death of human tonsillar B cells and Burkitt lymphoma cells: lack of CD95 (Fas/APO–1) ligand expression and function. Daniel PT, et al. **Eur J Immunol** 1997 Apr;27(4):1029–34

Establishment of a monoclonal antibody directed against Gb3Cer/CD77: a useful immunochemical reagent for a differentiation marker in Burkitt's lymphoma and germinal centre B cells. Miyamoto D, et al. **Glycoconj J** 1997 Apr; 14(3):379–88

Immune stimulatory and anti–tumor properties of anti–CD3 and BAT monoclonal antibodies: a comparative study. Hardy B, et al. **Hum Antibodies** 1997;8(2):95–8

Recognition by human Vgamma9/Vdelta2 T cells of melanoma cells upon fusion with Daudi cells. Viale O, et al. **Immunogenetics** 1996;45(1):27–34

Wortmannin–mediated inhibition of phosphatidylinositol 3–kinase activity triggers apoptosis in normal and neoplastic B lymphocytes which are in cell cycle. Padmore L, et al. **Int Immunol** 1996 Apr;8(4):585–94

Defective presentation of MHC class I–restricted cytotoxic T–cell epitopes in Burkitt's lymphoma cells. Frisan T, et al. **Int J Cancer** 1996 Oct 9;68(2):251–8

Class I processing–defective Burkitt's lymphoma cells are recognized efficiently by CD4+ EBV–specific CTLs. Khanna R, et al. **J Immunol** 1997 Apr 15;158(8):3619–25

Activation of human gamma delta T cells by Mycobacterium tuberculosis and Daudi lymphoma cells: differential regulatory effect of IL–10 and IL–12. Marx S, et al. **J Immunol** 1997 Mar 15;158(6):2842–8

Epstein–Barr virus and the immune system. Hide and seek [clinical conference] Cohen JI. **JAMA** 1997 Aug 13; 278(6):510–3

Molecular analysis in the diagnosis of pediatric lymphomas. Armes JE, et al. **Pediatr Pathol Lab Med** 1996 May–Jun; 16(3):435–49

AIDS–related Burkitt's–type lymphomas are a target for lymphokine–activated killers induced by interleukin–2 and prolactin. Gaidano G, et al. **Proc Soc Exp Biol Med** 1996 Nov;213(2):196–205

A comparative study of normal B cells and the EBV–positive Burkitt's lymphoma cell line, Raji, as activators of the complement system. Marquart HV, et al. **Scand J Immunol** 1997 Sep;46(3):246–53

METABOLISM

Cloning of human cDNA encoding a novel heptahelix receptor expressed in Burkitt's lymphoma and widely distributed in brain and peripheral tissues. Owman C, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):285–92

Absence of IL–6 receptor expression in fresh childhood Burkitt's lymphoma cells and induction of IL–6 receptors by Epstein–Barr virus in vitro. Tomeczkowski J, et al. **Br J Haematol** 1997 May;97(2):400–8

Resistance to radiation–induced apoptosis in Burkitt's lymphoma cells is associated with defective ceramide signaling. Michael JM, et al. **Cancer Res** 1997 Aug 15; 57(16):3600–5

Differential expression of nucleoskeleton– and cytoskeleton–associated proteins in Burkitt lymphoma–derived and Epstein–Barr virus–immortalized lymphoblastoid cell lines. Szekely L, et al. **Cell Growth Differ** 1997 May;8(5):599–609

Gal alpha 4Gal–binding antibodies: specificity and use for the mapping of glycolipids of Burkitt lymphoma and other human tumors. Lanne B, et al. **Glycobiology** 1996 Jun; 6(4):423–31

Promotion of IL8, IL10, TNF alpha and TNF beta production by EBV infection. Klein SC, et al. **Leuk Res** 1996 Aug;20(8):633–6

Analysis of lectin binding properties on human Burkitt's lymphoma cell lines that show high spontaneous metastasis to distant organs in SCID mice: the binding sites for soybean agglutinin lectin masked by sialylation are closely associated with metastatic lymphoma cells. Abe M, et al. **Pathol Int** 1996 Dec;46(12):977–83

MORTALITY

Eighty–one percent event–free survival in advanced Burkitt's lymphoma/leukemia: no differences in outcome between pediatric and adult patients treated with the same intensive pediatric protocol. Todeschini G, et al. **Ann Oncol** 1997; 8 Suppl 1:77–81

PATHOLOGY

Specific cutaneous involvement indicating relapse of Burkitt's lymphoma [letter] Bachmeyer C, et al. **Am J Hematol** 1997 Feb;54(2):176

Analysis of apoptosis morphology in Epstein–Barr virus positive and negative Burkitt's lymphoma cells. Ishii H, et al. **Arch Histol Cytol** 1997 Jun;60(2):143–52

Pathologic quiz case 1. Burkitt lymphoma. Topping JW 3rd, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb; 123(2):230, 232–3

Bcl–2 does not protect Burkitt's lymphoma cells from oxidant–induced cell death. Lee Y, et al. **Blood** 1997 Jun 15;89(12):4480–92

Burkitt's lymphoma–leukemia in patients treated for Hodgkin's disease. Salloum E, et al. **Cancer Invest** 1996; 14(6):527–33 (47 ref.)

CD40–triggered protein tyrosine phosphorylation on Vav and on phosphatidylinositol 3–kinase correlates with survival of the Ramos–Burkitt lymphoma B cell line. Padmore L, et al. **Cell Immunol** 1997 May 1;177(2):119–28

Cytomorphology of primary CNS lymphoma: review of 23 cases and evidence for the role of EBV. Yu GH, et al. **Diagn Cytopathol** 1996 Mar;14(2):114–20

Burkitt's lymphoma: a recent clinical and histopathologic study in Uganda. Kassim A, et al. **East Afr Med J** 1996 Jun;73(6):346–9

In the absence of Epstein–Barr virus infection, phorbol ester modulates apoptosis in cycloheximide–treated Burkitt's lymphoma (BJA–B) cells. Ishii H, et al. **Int J Exp Pathol** 1997 Jun;78(3):123–31

Binding of malignant lymphoid cells to the white matter of the human central nervous system: role of different CD44 isoforms, beta 1, beta 2 and beta 7 integrins, and L–selectin. Aho R, et al. **J Neuropathol Exp Neurol** 1997 May; 56(5):557–68

Burkitt's lymphoma of the tonsil in children. Tewfik TL, et al. **J Otolaryngol** 1996 Jun;25(3):205–8

Cellular kinetic and phenotypic heterogeneity in and among Burkitt's and Burkitt–like lymphomas. Spina D, et al. **J Pathol** 1997 Jun;182(2):145–50

Burkitt–like blast crisis in chronic myeloid leukemia. Colovic M, et al. **Med Oncol** 1996 Jun;13(2):119–20

Establishment and characterization of new human Burkitt's lymphoma cell lines (HBL–7 and HBL–8) that are highly metastatic in SCID mice: a metastatic SCID mouse model of human lymphoma lines. Abe M, et al. **Pathol Int** 1996 Sep;46(9):630–8

Interferon–inducible protein–10 identified as a mediator of tumor necrosis in vivo. Sgadari C, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13791–6

A hexameric phosphorothioate oligonucleotide telomerase inhibitor arrests growth of Burkitt's lymphoma cells in vitro and in vivo. Mata JE, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):189–97

[AIDS–related primary central nervous system lymphoma] Hojo I. **No To Shinkei** 1997 Jan;49(1):19–24 (23 ref.) **(Jpn)**

PREVENTION & CONTROL

Antisense c–myc inhibition of lymphoma growth. Wickstrom E. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):225–8

Investigation of the effect of BB–94 (batimastat) on the colonization potential of human lymphoma cells in SCID mice. Zubair AC, et al. **Cancer Lett** 1996 Oct 1;107(1):91–5

RADIOGRAPHY

CT of small–bowel lymphoma in immunocompetent patients and patients with AIDS: comparison of findings. Balthazar EJ, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):675–80

Non–Hodgkin lymphoma as a cause of intrahepatic periportal low attenuation on CT. Coakley FV, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):726–8

SURGERY

[Burkitt lymphoma] Santoro G, et al. **G Chir** 1996 Aug–Sep; 17(8–9):405–7 (Eng. Abstr.) **(Ita)**

THERAPY

Autologous bone marrow transplantation in relapsed HIV–related non–Hodgkin's lymphoma. Gabarre J, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1195–7

A strategy for specific targeting of therapeutic agents to tumour cells of virus–associated cancers. Evans TJ, et al. **Gene Ther** 1997 Mar;4(3):264–7

Adult Burkitt's and Burkitt–like non–Hodgkin's lymphoma—outcome for patients treated with high–dose therapy and autologous stem–cell transplantation in first remission or at relapse: results from the European Group for Blood and Marrow Transplantation. Sweetenham JW, et al. **J Clin Oncol** 1996 Sep;14(9):2465–72

Effect of sublethal irradiation of SCID mice on growth of B–cell lymphoma xenografts and on efficacy of chemotherapy and/or immunotoxin therapy. Ghetie MA, et al. **Lab Anim Sci** 1996 Jun;46(3):305–9

Epstein–Barr virus–driven gene therapy for EBV–related lymphomas. Franken M, et al. **Nat Med** 1996 Dec; 2(12):1379–82

VIROLOGY

Integration of Epstein–Barr virus in Burkitt's lymphoma cells leads to a region of enhanced chromosome instability. Jox A, et al. **Ann Oncol** 1997;8 Suppl 2:131–5

Pathogenesis of gastric lymphoma: the enigma in Hong Kong. Xu WS, et al. **Ann Oncol** 1997;8 Suppl 2:41–4

Analysis of apoptosis morphology in Epstein–Barr virus positive and negative Burkitt's lymphoma cells. Ishii H, et al. **Arch Histol Cytol** 1997 Jun;60(2):143–52

Human herpesvirus 6 (HHV–6)–positive Burkitt's lymphoma: establishment of a novel cell line infected with HHV–6. Bandobashi K, et al. **Blood** 1997 Aug 1;90(3):1200–7

CpG methylation of the major Epstein–Barr virus latency promoter in Burkitt's lymphoma and Hodgkin's disease. Robertson KD, et al. **Blood** 1996 Oct 15;88(8):3129–36

Association between Epstein–Barr virus and Burkitt's lymphoma in Taiwan. Chao TY, et al. **Cancer** 1997 Jul 1;80(1):121–8

Markers of type D retroviruses in children with Burkitt's–type lymphoma. Kzhyshkowska JG, et al. **Immunol Lett** 1996 Nov;53(2–3):101–4

Induction of an exceptionally high–level, nontranslated, Epstein–Barr virus–encoded polyadenylated transcript in the Burkitt's lymphoma line Daudi. Gao Y, et al. **J Virol** 1997 Jan;71(1):84–94

Interferon–independent and –induced regulation of Epstein–Barr virus EBNA–1 gene transcription in Burkitt lymphoma. Nonkwelo C, et al. **J Virol** 1997 Sep; 71(9):6887–97

Detection of latent infection by Epstein–Barr virus in peripheral blood cells of healthy individuals and in

non-neoplastic tonsillar tissue from patients by reverse transcription-polymerase chain reaction. Takeuchi H, et al. **J Virol Methods** 1996 Apr 26;58(1-2):81-9

Burkitt's lymphoma in Brazil: strong association with Epstein-Barr virus. Bacchi MM, et al. **Mod Pathol** 1996 Jan;9(1):63-7

[Localization of 8q24 break-point of Burkitt lymphoma in Japan : relationship to EBV status] Tatsumi E, et al. **Nippon Rinsho** 1997 Feb;55(2):429-35 (21 ref.) (Eng. Abstr.) **(Jpn)**

BURKITT'S LYMPHOMA VIRUS see **HERPESVIRUS 4, HUMAN**

BURKITT'S TUMOR see **BURKITT'S LYMPHOMA**

BURN CENTERS see **BURN UNITS**

BURN UNITS

Emergency care of severe burn children (an experience of Prague Burn Centre). Broz L, et al. **Acta Chir Plast** 1995; 37(3):89-93

Rationale for early tangential excision and grafting in burn patients. Kisslaogglu E, et al. **Acta Chir Plast** 1997; 39(1):9-12

A comparison of phenotypic properties of Staphylococcus aureus isolated from burned children and other patient groups. Edwards-Jones V, et al. **Burns** 1996 Aug; 22(5):384-9

A retrospective study of etiopathological and preventive factors in a burns unit in Saudi Arabia. Mahaluxmivala S, et al. **Burns** 1997 Jun;23(4):333-7

Burn patients in a critical care burn unit [letter; comment] Sjöberg F, et al. **Burns** 1996 Aug;22(5):422-4. Comment on: Burns 1995 Mar;21(2):106-9.

Seven-year experience with a 'quarantine and isolation unit' for patients with burns. A retrospective analysis. van Rijn RR, et al. **Burns** 1997 Jun;23(4):345-8

A prolonged outbreak of methicillin-resistant Staphylococcus aureus in the burn unit of a tertiary medical center. Meier PA, et al. **Infect Control Hosp Epidemiol** 1996 Dec;17(12):798-802

Parent participation during burn debridement in relation to behavioral distress. Foertsch CE, et al. **J Burn Care Rehabil** 1996 Jul-Aug;17(4):372-7; discussion 371

Comparison of length of hospital stay to mortality rate in a regional burn center. Peck MD, et al. **J Burn Care Rehabil** 1996 Jan-Feb;17(1):39-44

Infectious complications: prevention and strategies for their control. Greenfield E, et al. **Nurs Clin North Am** 1997 Jun; 32(2):297-309 (24 ref.)

[Clinical results of Fortum and Zinacef trial in Burn Centers of Russia] Alekseev AA, et al. **Khirurgiia (Mosk)** 1996; (5):55-9 **(Rus)**

ECONOMICS

A burn center cost-reduction program. Mathews JJ, et al. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):358-63; discussion 357

Much ado about nothing: methicillin-resistant Staphylococcus aureus. Shannon T, et al. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):326-31

[Budget analysis in a burn center for severely burned patients] Liebau J, et al. **Unfallchirurg** 1996 Nov;99(11):875-9 (Eng. Abstr.) **(Ger)**

ORGANIZATION & ADMINISTRATION

Implementation of a patient charting system: challenges encountered and tactics adopted in a burn center. Paré G, et al. **J Med Syst** 1997 Feb;21(1):49-66

[Monitoring in the system of specialized medical care management (exemplified by the study of burns--specialized care for burn victims)] Kucherenko VZ, et al. **Probl Sotsialnoi Gig Istor Med** 1994 Sep-Oct;(5):30-6 (Eng. Abstr.) **(Rus)**

STANDARDS

Validation and verification [editorial] Pruitt BA Jr. **Burns** 1996 May;22(3):171

Clinical nutrition protocols for continuous quality improvements in the outcomes of patients with burns. Mayes T, et al. **J Burn Care Rehabil** 1997 Jul-Aug; 18(4):365-8; discussion 364

Preparation for burn center verification. Supple KG, et al. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 1):58-60

STATISTICS & NUMERICAL DATA

Toxic epidermal necrolysis in a burns centre: a 6-year review. Khoo AK, et al. **Burns** 1996 Jun;22(4):275-8

Staphylococcal infections in the Sofia Burn Centre, Bulgaria. Lesseva MI, et al. **Burns** 1996 Jun;22(4):279-82

Effective control of methicillin-resistant Staphylococcus aureus in a burn unit. Matsumura H, et al. **Burns** 1996 Jun; 22(4):283-6

UTILIZATION

Reduction in paediatric burn admissions over 25 years, 1970-94. Streeton C, et al. **Inj Prev** 1997 Jun;3(2):104-9

Simulated biologic intelligence used to predict length of stay and survival of burns. Frye KE, et al. **J Burn Care Rehabil** 1996 Nov-Dec;17(6 Pt 1):540-6

BURNING MOUTH SYNDROME

CHEMICALLY INDUCED

Burning mouth syndrome: hypersensitivity to sodium metabisulfite [letter] Levanti C, et al. **Acta Derm Venereol** 1996 Mar;76(2):158-9

"Scalded mouth syndrome" caused by angiotensin converting enzyme inhibitors: two case reports. Brown RS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):665-7

DRUG THERAPY

[Sucralfate in odontostomatology. Clinical experience] Campisi G, et al. **Minerva Stomatol** 1997 Jun;46(6):297-305 (42 ref.) (Eng. Abstr.) **(Ita)**

EPIDEMIOLOGY

Prevalence of some oral complaints and their relation to oral health variables in an adult Swedish population. Thorstensson B, et al. **Acta Odontol Scand** 1996 Aug; 54(4):257-62

ETIOLOGY

Burning mouth syndrome: the role of contact hypersensitivity. Virgili A, et al. **Acta Derm Venereol** 1996 Nov;76(6):488-90

General health factors and denture function in patients with burning mouth syndrome and matched control subjects. Svensson P, et al. **J Oral Rehabil** 1995 Dec;22(12):887-95

Burning mouth syndrome: a review of etiologies. Cibirka RM, et al. **J Prosthet Dent** 1997 Jul;78(1):93-7 (51 ref.)

METABOLISM

Evaluation of major parotid glycoproteins in patients with burning mouth syndrome. Lundy FT, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Feb;83(2):252-8

PHYSIOPATHOLOGY

Perception of stimulus size in patients with burning mouth syndrome. Lamey PJ, et al. **J Oral Pathol Med** 1996 Sep; 25(8):420-3

PSYCHOLOGY

Burning mouth syndrome (BMS) and the concept of alexithymia--a preliminary study. Jerlang BB. **J Oral Pathol Med** 1997 Jul;26(6):249-53

[Burning mouth syndromes and depression. A psychoanalytic approach] Demange C, et al. **Rev Stomatol Chir Maxillofac** 1996;97(4):244-52 (19 ref.) (Eng. Abstr.) **(Fre)**

THERAPY

Burning mouth syndrome: patient management. Savage NW. **Aust Dent J** 1996 Dec;41(6):363-6

Cognitive-behavioural therapy for idiopathic burning mouth syndrome: a report of two cases. Humphris GM, et al. **Br Dent J** 1996 Sep 21;181(6):204-8

BURNOUT, PROFESSIONAL

Burnout in emergency medicine: what are we doing to ourselves? [editorial] Chapman DM. **Acad Emerg Med** 1997 Apr;4(4):245-7

Dentistry on the couch [letter; comment] Phillipson R. **Aust Dent J** 1996 Oct;41(5):356. Comment on: Aust Dent J 1996 Jun;41(3):206-10.

Physician moaning syndrome. Brouillette. **J Fla Med Assoc** 1996 Feb;83(2):139-40

Perceived sources of work stress and satisfaction among hospital and community mental health staff, and their relation to mental health, burnout and job satisfaction. Prosser D, et al. **J Psychosom Res** 1997 Jul;43(1):51-9

Physician burnout. Michaels RM. **Pa Med** 1996 May; 99(5):18-21

[Burnout in veterinarians, a 'repressed' problem?] Schröder AC, et al. **Tijdschr Diergeneeskd** 1996 Oct 15;121(20):593-6 **(Dut)**

[Occupational dangers to health of nursing staffs in hemodialysis units] Washio M, et al. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):239-45 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Burnout and reaction to stress] De las Cuevas C, et al. **Rev Med Univ Navarra** 1997 Apr-Jun;41(2):10-8 (36 ref.) (Eng. Abstr.) **(Spa)**

[Stress and burnout among physicians. Similar problems in different health care systems] Orn P. **Lakartidningen** 1997 May 28;94(22):2052 **(Swe)**

[What will happen when the elite wears down? (letter)] Sjöstedt I. **Lakartidningen** 1997 Jan 22;94(4):220 **(Swe)**

DIAGNOSIS

The factor structure of the Maslach Burnout Inventory in two Swedish human service organizations. Söderfeldt M, et al. **Scand J Psychol** 1996 Dec;37(4):437-43

EPIDEMIOLOGY

Burnout in orthopaedic physical therapists. Wandling BJ, et al. **J Orthop Sports Phys Ther** 1997 Sep;26(3):124-30

ETIOLOGY

Burnout and stress-related factors among junior staff of three dental hospital specialties. Humphris G, et al. **Br Dent J** 1997 Jul 12;183(1):15-21

Professional burnout [editorial] Sullivan PA, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):231-5 (55 ref.)

Unrelieved job stress can lead to burnout. Clarke S, et al. **Radiol Technol** 1996 Nov-Dec;68(2):159-60 (9 ref.)

Burnout and the work environment of nurses in psychiatric long-stay care settings. Melchior ME, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 Apr;32(3):158-64

PHYSIOPATHOLOGY

Effect of individual and work characteristics of EMTs on vital sign changes during shiftwork. Weiss SJ, et al. **Am J Emerg Med** 1996 Nov;14(7):640-4

PREVENTION & CONTROL

The role of production control in the development of burnout. Houben GJ, et al. **Int J Health Serv** 1996; 26(2):331-53 (97 ref.)

Nursing process for health promotion using King's theory. Calladine ML. **J Community Health Nurs** 1996;13(1):51-7

Organization, management, and client effects on staff burnout. Schulz R, et al. **J Health Soc Behav** 1995 Dec; 36(4):333-45

The road best traveled. Veninga RL. **Minn Med** 1997 Jun; 80(6):10-4

Exhaustion syndrome in palliative care [see comments] Astudillo W, et al. **Support Care Cancer** 1996 Nov; 4(6):408-15. Comment in: Support Care Cancer 1996 Nov;4(6):399-400.

Social support and network conflict in firefighters and paramedics. Beaton RD, et al. **West J Nurs Res** 1997 Jun; 19(3):297-313

PSYCHOLOGY

Burnout and its correlates in emergency physicians: four years' experience with a wellness booth. Goldberg R, et al. **Acad Emerg Med** 1996 Dec;3(12):1156-64 (37 ref.)

Stress and psychiatric disorders in local government officials in Japan, in relation to their employment level. Nadaoka T, et al. **Acta Psychiatr Scand** 1997 Sep;96(3):176-83

Burnout and related factors among HIV/AIDS health care workers. Bellani ML, et al. **AIDS Care** 1996 Apr; 8(2):207-21

The relationship between recognition, rewards and burnout in AIDS caring. Bennett L, et al. **AIDS Care** 1996 Apr; 8(2):145-53

Burnout, social support and AIDS volunteers. Maslanka H. **AIDS Care** 1996 Apr;8(2):195-206

Is there life after work? Experiences of HIV and oncology health staff. Miller D, et al. **AIDS Care** 1996 Apr; 8(2):167-82

HIV/AIDS health worker stress and burnout: introduction and overview [editorial] Miller D. **AIDS Care** 1996 Apr; 8(2):133-5

Prediction of grief and HIV/AIDS-related burnout in volunteers. Nesbitt WH, et al. **AIDS Care** 1996 Apr; 8(2):137-43

Psychological stress in nurses' relationships with HIV-infected patients: the risk of burnout syndrome. Visintini R, et al. **AIDS Care** 1996 Apr;8(2):183-94

Who will care for the caregivers? [letter; comment] Rivera DA. **Altern Ther Health Med** 1997 Jul;3(4):22. Comment on: Altern Ther Health Med 1997 Mar;3(2):8-15.

Stress and distress in pediatric nurses: lessons from Baby K. Perkin RM, et al. **Am J Crit Care** 1997 May;6(3):225-32

Mental health, "burnout' and job satisfaction among hospital and community-based mental health staff. Prosser D, et al. **Br J Psychiatry** 1996 Sep;169(3):334-7

Occupational stress among senior police officers. Brown J, et al. **Br J Psychol** 1996 Feb;87 (Pt 1):31-41

Models of job-related stress and personal achievement among consultant doctors. Deary IJ, et al. **Br J Psychol** 1996 Feb; 87 (Pt 1):3-29

Staff stress in head injury rehabilitation; Brain Injury, 10(2): 133-138 [letter; comment] [see comments] Duckett S. **Brain Inj** 1996 Oct;10(10):779. Comment on: Brain Inj 1996 Feb;10(2):133-8. Comment in: Brain Inj 1997 Jun;11(6):465-6.

The yellow brick road of medical education. Nisker JA. **Can Med Assoc J** 1997 Mar 1;156(5):689-91

Evaluation of burnout and job satisfaction in marrow transplant nurses. Molassiotis A, et al. **Cancer Nurs** 1996 Oct;19(5):360-7

How far have we come in dealing with the emotional challenge of abuse and neglect? Killén K. **Child Abuse Negl** 1996 Sep;20(9):791-5

The effects of job characteristics and individual characteristics on job satisfaction and burnout in community nursing. Jansen PG, et al. **Int J Nurs Stud** 1996 Aug;33(4):407-21

Stress in mental health professionals: a cause for concern

or an inevitable part of the job? [editorial] Carson J, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):79–81
Stress in clinical psychologists. Cushway D, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):141–9 (39 ref.)
Personality and stress in consultant psychiatrists. Deary IJ, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):112–23
Stress, coping and burnout in mental health nurses: findings from three research studies. Fagin L, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):102–11
Burnout among mental health workers: a review and a research agenda. Leiter MP, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):90–101 (46 ref.)
Stress in mental health professionals: a theoretical overview. Moore KA, et al. **Int J Soc Psychiatry** 1996 Summer; 42(2):82–9 (28 ref.)
Stress and its relationship to expressed emotion in community mental health workers. Oliver N, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):150–9
Stress and mental health social work. A developmental perspective. Pottage D, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):124–31
Stress experiences of occupational therapists in mental health practice arenas: a review of the literature. Sweeney G, et al. **Int J Soc Psychiatry** 1996 Summer;42(2):132–40 (35 ref.)
Burnout in the internist—intensivist. Guntupalli KK, et al. **Intensive Care Med** 1996 Jul;22(7):625–30
Hospital nursing: 'it's a battle!' A follow-up study of English graduate nurses. Kelly B. **J Adv Nurs** 1996 Nov; 24(5):1063–9
The effectiveness of primary nursing on burnout among psychiatric nurses in long-stay settings. Melchior ME, et al. **J Adv Nurs** 1996 Oct;24(4):694–702
Burnout, self- and supervisor-rated job performance, and absenteeism among nurses. Parker PA, et al. **J Behav Med** 1995 Dec;18(6):581–99
Hardiness, coping, and burnout in the nursing workplace. Simoni PS, et al. **J Prof Nurs** 1997 May–Jun;13(3):178–85
The psychological impact on staff of caring for people with serious diseases: the case of HIV infection and oncology. Catalan J, et al. **J Psychosom Res** 1996 Apr;40(4):425–35
Perceived overqualification and psychological well-being. Johnson GJ, et al. **J Soc Psychol** 1996 Aug;136(4):435–45
Effects of components of personal need for structure on occupational strain. Kivimäki M, et al. **J Soc Psychol** 1996 Dec;136(6):769–77
Job stress and satisfaction among palliative physicians. Graham J, et al. **Palliat Med** 1996 Jul;10(3):185–94
Academic performance is not a viable determinant of physical therapy students' burnout. Balogun JA, et al. **Percept Mot Skills** 1996 Aug;83(1):21–2
Burnout and managers' tactics of influence. Lamude KG, et al. **Percept Mot Skills** 1996 Aug;83(1):193–4
Amount of psychological stress reported by high school volleyball officials. Stewart MJ, et al. **Percept Mot Skills** 1996 Aug;83(1):337–8
Relation among measures of burnout, job satisfaction, and role dynamics for a sample of South African child-care social workers. Bhana A, et al. **Psychol Rep** 1996 Oct; 79(2):431–4
Effects of locus of control, occupational stress, and psychological distress on job satisfaction among nurses. Jain VK, et al. **Psychol Rep** 1996 Jun;78(3 Pt 2):1256–8
Stress of secondary school teachers in Transkei, South Africa. Mwamwenda TS, et al. **Psychol Rep** 1997 Apr;80(2):379–82
Relationship between hardiness and risk of burnout in a sample of 92 nurses working in oncology and AIDS wards. Costantini A, et al. **Psychother Psychosom** 1997;66(2):78–82
Doctors' perceptions of the links between stress and lowered clinical care. Firth-Cozens J, et al. **Soc Sci Med** 1997 Apr; 44(7):1017–22
Does organization matter? A multilevel analysis of the demand-control model applied to human services. Söderfeldt B, et al. **Soc Sci Med** 1997 Feb;44(4):527–34
Paid work, unpaid work and social support: a study of the health of male and female nurses. Walters V, et al. **Soc Sci Med** 1996 Dec;43(11):1627–36
Conducting research on child maltreatment: effects on researchers. Kinard EM. **Violence Vict** 1996 Spring; 11(1):65–9
[Burnout in veterinarians (letter)] Boysen VH. **Tijdschr Diergeneeskd** 1997 Feb 15;122(4):109–10 **(Dut)**

BURNS

Oral autopsy of unidentified burned human remains. A new procedure. Fereira J, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):306–11 (24 ref.)
Burns in children under 3 years of age: the Zaria experience. Kalayi GD, et al. **Ann Trop Paediatr** 1996 Sep;16(3):243–8
You're the flight surgeon. Gilleran LG. **Aviat Space Environ Med** 1996 Jan;67(1):83–4
Skin problems in sugar artists. Bangha E, et al. **Br J Dermatol** 1996 Nov;135(5):772–4
Recent references. **Burns** 1996 Sep;22(6):507–8
Recent references. **Burns** 1997 Jun;23(4):373–5
Recent references. **Burns** 1996 Jun;22(4):335–6
Recent references. **Burns** 1996 Nov;22(7):582–3
Recent references. **Burns** 1996 May;22(3):253–4
Recent references. **Burns** 1997 Feb;23(1):87–9
Recent references. **Burns** 1996 Dec;22(8):648–9
Recent references. **Burns** 1996 Aug;22(5):426–7
Recent references. Davies JW. **Burns** 1997 May;23(3):276–7
Rect references. Davies JW. **Burns** 1997 Mar;23(2):190–1
Who speaks for the little burn? [editorial] Heimbach D. **Burns** 1996 Aug;22(5):337–8
Is the pattern of burns changing? A review of 914 cases [letter] Khattab A. **Burns** 1996 Nov;22(7):580 (2 ref.)
The physicochemical basis for thermal and non-thermal burn injuries. Lee RC, et al. **Burns** 1996 Nov;22(7):509–19 (37 ref.)
From wound to scar. Linares HA. **Burns** 1996 Aug; 22(5):339–52 (122 ref.)
Eight years experience of a regional burns unit in Saudi Arabia: clinical and epidemiological aspects. al-Shlash S, et al. **Burns** 1996 Aug;22(5):376–80
Prolongation of survival of alloskin grafts with no concurrent general suppression of the burned patient's immune system: a preliminary clinical investigation. Wu J, et al. **Burns** 1996 Aug;22(5):353–8
The cytokine response to critical illness. Foëx BA, et al. **J Accid Emerg Med** 1996 May;13(3):154–62 (58 ref.)
The use of free tissue transfer in burn reconstruction. Abramson DL, et al. **J Burn Care Rehabil** 1996 Sep–Oct; 17(5):402–8 (16 ref.)
Substance abuse in victims of fire. Barillo DJ, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):71–6
Prognostic indicators in the elderly patient with burns. Covington DS, et al. **J Burn Care Rehabil** 1996 May–Jun; 17(3):222–30
Essential microminerals and their response to burn injury. Gamliel Z, et al. **J Burn Care Rehabil** 1996 May–Jun; 17(3):264–72 (108 ref.)
Alcohol, drug intoxication, or both at the time of burn injury as a predictor of complications and mortality in hospitalized patients with burns. Grobmyer SR, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):532–9
A randomized single-blind evaluation of a discharge teaching book for pediatric patients with burns. Jenkins HM, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):49–61
The publication outcome for the papers presented at the 1990 ABA conference. Landry VL. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):23A–6A
Animal extremists: a cause for concern? Landry VL. **J Burn Care Rehabil** 1996 May–Jun;17(3):260–2
Positive self-regard as a coping mechanism for pediatric burn survivors. LeDoux JM, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):472–6; discussion 471–2
NATIONAL TRACS/ABA Burn Registry—the quest for quality burn data management. McDonald-Smith GP. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):454–6
The contributions of animal research to care of the burn victim: the development of topical antimicrobials. Peck MD, et al. **J Burn Care Rehabil** 1996 Jan–Feb; 17(1):27A–8A
Modulation of immune response in thermal injury by essential fatty acid-deficient diet. Penturf ME, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):465–70; discussion 464
The current status of the NATIONAL TRACS/ABA Burn Registry. Saffle JR. **J Burn Care Rehabil** 1997 Mar–Apr; 18(2):172–5
Propane gas dangers and strategies for prevention of injuries. Smoot EC 3rd, et al. **J Burn Care Rehabil** 1996 May–Jun; 17(3):273–9
Reduced albumin extravasation in experimental rat skin and muscle burn injury by D-myo-inositol-1,2,6-trisphosphate treatment. Tarnow P, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):207–12
Statement letter in regard to use of animals in research [letter] Traber DL. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):15A
Grease burns of the hand: preventable injuries. Bill TJ, et al. **J Emerg Med** 1996 May–Jun;14(3):351–5
Altered ionic calcium and cell motion in ventricular myocytes after cutaneous thermal injury. Koshy US, et al. **J Surg Res** 1997 Mar;68(2):133–8
Childhood burns at the Paediatric Institute Kuala Lumpur. Ibrahim SB, et al. **Med J Malaysia** 1995 Sep;50(3):221–5
Burn injuries in firefighters. Cimino VG, et al. **Occup Med** 1995 Oct–Dec;10(4):707–20 (34 ref.)
Prognosis and treatment of burns. Mann R, et al. **West J Med** 1996 Oct;165(4):215–20 (63 ref.)
[Growth hormone after burns and multiple trauma. Immunologic effects of growth hormone] **Unfallchirurg** 1997 Mar;100(3 Suppl):1–4 **(Ger)**

BLOOD

Severe hypocupraemia in a patient with extensive burn injuries. Sampson B, et al. **Ann Clin Biochem** 1996 Sep;33 (Pt 5):462–4
Endothelin-1 kinetics in plasma, urine, and blister fluid in burn patients. Wakisaka N, et al. **Ann Plast Surg** 1996 Sep; 37(3):305–9
Thyroid hormones in burn injured children. Barclay C, et al. **Biochem Soc Trans** 1996 May;24(2):271S
Plasma concentrations of tumour necrosis factor-alpha and interleukin-6 during burn wound surgery or dressing. Papini RP, et al. **Br J Plast Surg** 1997 Jul;50(5):354–61
Evaluation of lipid peroxidation and total antioxidant status in plasma of rats following thermal injury. Cetinkale O, et al. **Burns** 1997 Mar;23(2):114–6
Effect of burn patient serum on fibroblast and keratinocyte cell morphology. Khammo N, et al. **Burns** 1997 May; 23(3):212–7
Clinical significance of the changes in serum fibronectin in severely burned patients. Liu XS, et al. **Burns** 1996 Jun; 22(4):295–7
Clinical significance of the alterations of plasma prostaglandin E2 (PGE2) in severely burned patients. Liu XS, et al. **Burns** 1996 Jun;22(4):298–302
Plasma levels of endothelin-1 and thrombomodulin in burn patients. Nakae H, et al. **Burns** 1996 Dec;22(8):594–7
Impaired actin polymerization and depolymerization in neutrophils from patients with thermal injury. Vindenes HA, et al. **Burns** 1997 Mar;23(2):131–6
Plasma cytokine levels in patients with severe burn injury--with reference to the relationship between infection and prognosis. Yamada Y, et al. **Burns** 1996 Dec; 22(8):587–93
Changes in serum tumour necrosis factor-alpha in burned patients. Yeh FL, et al. **Burns** 1997 Feb;23(1):6–10
Elevated serum neopterin level: its relation to endotoxaemia and sepsis in patients with major burns. Yao YM, et al. **Eur J Clin Invest** 1996 Mar;26(3):224–30
Kinetics of circulating adhesion molecules and chemokines after mechanical trauma and burns. Schinkel C, et al. **Eur J Surg** 1996 Oct;162(10):763–8
Evaluation of post-mortem oxymetry in fire victims. Maeda H, et al. **Forensic Sci Int** 1996 Aug 15;81(2–3):201–9
Corticosteroid-binding globulin during inflammation and burn injury: nutritional modulation and clinical implications. Garrel DR. **Horm Res** 1996;45(3–5):245–51 (54 ref.)
Endotoxemia and complement activation after severe burn injuries—effects on leukocytes, soluble selectins, and inflammatory cytokines. Ljunghusen O, et al. **Inflammation** 1996 Jun;20(3):229–41
Carotenoids and antioxidant vitamins in patients after burn injury. Rock CL, et al. **J Burn Care Rehabil** 1997 May–Jun; 18(3):269–78; discussion 268
Neutrophils from burn patients are unable to increase the expression of CD11b/CD18 in response to inflammatory stimuli. Rodeberg DA, et al. **J Leukoc Biol** 1997 May; 61(5):575–82
Nitric oxide production in burns: plasma nitrate levels are not increased in patients with minor thermal injuries. Harper R, et al. **J Trauma** 1997 Sep;43(3):467–74
Physiologic hypoalbuminemia is well tolerated by severely burned children. Sheridan RL, et al. **J Trauma** 1997 Sep; 43(3):448–52
Carboxyhemoglobin blood concentrations in suicides by fire. Betz P, et al. **Med Sci Law** 1996 Oct;36(4):313–6
Antithrombin deficiency in special clinical syndromes—Part II: trauma/burns. Penner J. **Semin Hematol** 1995 Oct;32(4 Suppl 2):42–7; discussion 48 (23 ref.)
[Clinical significance of determinations of blood catecholamine, glucose and isulin in burn patients] Han Z, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):216–8 (Eng. Abstr.) **(Chi)**
[The dependence of serum opsonic activity on fibronectin and alpha- 1 acid glycoprotein levels in children with burns] Meleżyńska-Matej M, et al. **Pediatr Pol** 1996 Jun; 71(6):511–6 (Eng. Abstr.) **(Pol)**
[Changes in the activity level of tumor necrosis factor in the blood serum after irradiation and a combined radiation-thermal lesion] Petrov VN, et al. **Radiats Biol Radioecol** 1997 Jan–Feb;37(1):30–4 (Eng. Abstr.) **(Rus)**
[Changes in the hematopoietic system and in the concentrations of blood-regulatory cytokines after acute irradiation and a combined radiation-thermal lesion] Ul'ianova LP, et al. **Radiats Biol Radioecol** 1997 Mar–Apr; 37(2):182–8 (Eng. Abstr.) **(Rus)**
[An experimental study of the hemostatic system in acute radiation sickness exacerbated by skin burns] Ziablitskiĭ VM, et al. **Radiats Biol Radioecol** 1997 Jan–Feb;37(1):68–75 (Eng. Abstr.) **(Rus)**
[Electrophoretic mobility and oxidizing status of rat blood erythrocytes at scald trauma] Matiushichev VB, et al. **Tsitologiia** 1997;39(2–3):177–80 (Eng. Abstr.) **(Rus)**
[The blood coagulating activity in burns] Kotel'nikov VP, et al. **Vestn Khir Im I I Grek** 1996;(1):67–70 (Eng. Abstr.) **(Rus)**
[Changes in the antioxidative activity of blood serum in inflammation] Volchegorskiĭ IA, et al. **Vopr Med Khim** 1997 Jul–Aug;43(4):233–8 (Eng. Abstr.) **(Rus)**
[The pharmacokinetic determinants of the analgesic effect of benzofurocaine in patients with burns and wounds of the joints] Stanislavchuk MA, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):154–7 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED see BURNS, CHEMICAL

CLASSIFICATION

Improved burn scar assessment with use of a new scar-rating scale. Yeong EK, et al. **J Burn Care Rehabil** 1997 Jul–Aug; 18(4):353–5; discussion 352
Distribution of pedal burns by source and depth. Schoen NS, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):194–8
Standardization model for describing the extent of burn injury to human remains. Glassman DM, et al. **J Forensic Sci** 1996 Jan;41(1):152–4
Using the hand to estimate the surface area of a burn in children. Nagel TR, et al. **Pediatr Emerg Care** 1997 Aug; 13(4):254–5

COMPLICATIONS

Skin expansion in burn sequelae: results and complications. Governa M, et al. **Acta Chir Plast** 1996;38(4):147–53

An unusual cause for left sided colitis: hot-water enema [letter] Schapira M, et al. **Acta Gastroenterol Belg** 1996 Jul–Sep;59(3):220–1

Nosocomial infections in pediatric patients with burns. Weber JM, et al. **Am J Infect Control** 1997 Jun;25(3):195–201

Thyroid storm due to functioning metastatic thyroid carcinoma in a burn patient. Naito Y, et al. **Anesthesiology** 1997 Aug;87(2):433–5

Vancomycin-resistant Enterococcus in the Singapore National Burns Centre: a case report. Ang SW, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):270–2

Ischemic necrotic bowel disease in thermal injury. Kowal-Vern A, et al. **Arch Surg** 1997 Apr;132(4):440–3

Toxic shock syndrome in the burned patient. Edwards-Jones V, et al. **Br J Biomed Sci** 1997 Jun;54(2):110–7 (87 ref.)

The distally based islanded dorsal foot flap. Bharathwaj VS, et al. **Br J Plast Surg** 1997 Jun;50(4):284–7

Reduction of burn-induced gastric mucosal injury by an endothelin receptor antagonist in rats. Battal NM, et al. **Burns** 1997 Jun;23(4):295–9

Herpes simplex virus infection in burned patients: epidemiology of 11 cases. Bourdarias B, et al. **Burns** 1996 Jun;22(4):287–90

Primary intracranial malignant tumour mistaken for a postburn scalp Marjolin's ulcer. Cavadas PC, et al. **Burns** 1996 Jun;22(4):331–4

Reconstruction of anterior neck contractures with sensate expanded radial forearm free flap. Celiköz B, et al. **Burns** 1996 Jun;22(4):320–3

A shorter lag period of mesenchymal malignancy on Marjolin's ulcer. Celiköz B, et al. **Burns** 1997 Feb; 23(1):72–4 (10 ref.)

Postburn scar carcinomas in Kashmiris. Chowdri NA, et al. **Burns** 1996 Sep;22(6):477–82

The cutometer and ultrasonography in the assessment of postburn hypertrophic scar--a preliminary study. Fong SS, et al. **Burns** 1997 Mar;23 Suppl 1:S12–8

The pulsed tuneable dye laser as an aid in the management of postburn scarring. Gaston P, et al. **Burns** 1996 May; 22(3):203–5

Management of hypopigmentation following burn injury. Grover R, et al. **Burns** 1996 Dec;22(8):627–30 (21 ref.)

Longitudinal trapezius fasciocutaneous flap for the treatment of mentosternal burn scar contractures. Isenberg JS, et al. **Burns** 1996 Feb;22(1):76–9

Colonic pseudo-obstruction in burns patients. Ives A, et al. **Burns** 1996 Dec;22(8):598–601

Treatment for depigmentation following burn injuries. Kahn AM, et al. **Burns** 1996 Nov;22(7):552–4

Use of seven-flap plasty for the treatment of axillary and groin postburn contractures. Karacaoğlan N, et al. **Burns** 1996 Feb;22(1):69–72

Basal cell carcinoma developing on a burn scar. Koga Y, et al. **Burns** 1997 Feb;23(1):75–7 (11 ref.)

Surgical release for intubation purposes in postburn contractures of the neck. Kreulen M, et al. **Burns** 1996 Jun;22(4):310–2

Continuous haemofiltration and haemodiafiltration for acute renal failure in severely burned patients. Leblanc M, et al. **Burns** 1997 Mar;23(2):160–5

Vibrio cholerae non-O1 primary septicaemia following a large thermal burn. Magnusson MR, et al. **Burns** 1996 Feb; 22(1):44–7

Electroconvulsive therapy for a schizophrenic patient with burns in the critical care centre. Mashimo K, et al. **Burns** 1997 Feb;23(1):85–6

Cranial defect and decrease in cerebral blood flow resulting from deep contact burn of the scalp in the neonatal period. Matsumura H, et al. **Burns** 1996 Nov;22(7):560–5 (14 ref.)

Seizure disorders in burned children: a retrospective review. Mukhdomi GJ, et al. **Burns** 1996 Jun;22(4):316–9

Manifestation of multifocal heterotopic ossifications with unusual locations as a complication after severe burn injury. Nassabi H, et al. **Burns** 1996 Sep;22(6):500–3

A rare case of burn scar malignancy. Nishimoto S, et al. **Burns** 1996 Sep;22(6):497–9

Early, fatal disseminated intravascular coagulation in a patient with 60 per cent burns. Padubidri AN, et al. **Burns** 1996 May;22(3):246–9

The value of early enteral nutrition in the prophylaxis of stress ulceration in the severely burned patient. Raff T, et al. **Burns** 1997 Jun;23(4):313–8

Heterotopic ossification after severe burns: a report of three cases and review of the literature. Richards AM, et al. **Burns** 1997 Feb;23(1):64–8 (39 ref.)

Effect of facial burns on the nasal mucosa. Rose GK, et al. **Burns** 1996 Dec;22(8):631–2

A thermal burn to a prolapsed uterus. Sagi A, et al. **Burns** 1997 Mar;23(2):174–5

Malignant schwannoma in a burn scar. Scott JR, et al. **Burns** 1996 Sep;22(6):494–6

The bigger the burn, the greater the stress. Smith A, et al. **Burns** 1997 Jun;23(4):291–4

Can superoxide dismutase prevent postburn dermal ischemia? Tan Q, et al. **Burns** 1997 May;23(3):228–31

Controlled mechanical hypoventilation in a paediatric burn patient as treatment of acute respiratory distress syndrome. Trop M, et al. **Burns** 1997 Mar;23(2):166–9

Reflex sympathetic dystrophy after a burn injury. van der Laan L, et al. **Burns** 1996 Jun;22(4):303–6

Breast cancer in previously burned skin: a postburn skin adnexal malignancy? Vögelin E, et al. **Burns** 1997 Jun; 23(4):366–8

Current difficulties and the possible future directions in scar assessment. Wood FM, et al. **Burns** 1996 Sep;22(6):455–8

Delivery of medication by iontophoresis to treat post-burn hypertrophic scars: investigation of a new electronic technique. Zhao L, et al. **Burns** 1997 Mar;23 Suppl 1:S27–9

Urocortin, a corticotropin-releasing factor-related mammalian peptide, inhibits edema due to thermal injury in rats. Turnbull AV, et al. **Eur J Pharmacol** 1996 May 15;303(3):213–6

Combined smoke inhalation and body surface burns injury does not necessarily imply long-term respiratory health consequences. Bourbeau J, et al. **Eur Respir J** 1996 Jul; 9(7):1470–4

Pulmonary herpes simplex in burns patients. Byers RJ, et al. **Eur Respir J** 1996 Nov;9(11):2313–7

Fractures of the base of the skull in charred bodies--post-mortem heat injuries or signs of mechanical traumatisation? Bohnert M, et al. **Forensic Sci Int** 1997 May 23;87(1):55–62

Rationale, design and performance of a clinical trial to investigate interferon-gamma (Imukin) in the prophylactic treatment of severe burns-related infections. Ioannovich JD, et al. **Intensive Care Med** 1996 Oct;22 Suppl 4:S468–73

Teicoplanin versus flucloxacillin in the treatment of infection following burns. Steer JA, et al. **J Antimicrob Chemother** 1997 Mar;39(3):383–92

Dupuytren's contracture after burns of the upper extremity. Balakrishnan C, et al. **J Burn Care Rehabil** 1997 May–Jun; 18(3):245–6

The use of haloperidol in the agitated, critically ill pediatric patient with burns. Brown RL, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):34–8

Skeletal and dental disturbances after facial burns and pressure garments. Fricke NB, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):338–45

Burn-associated bone disease in sheep: roles of immobilization and endogenous corticosteroids. Klein GL, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):518–21

Excessive liver oxidant stress causes mortality in response to burn injury combined with endotoxin and is prevented with antioxidants. LaLonde C, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):187–92

Laparoscopic cholecystectomy in the treatment of acalculus cholecystitis in patients after thermal injury. McClain T, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):141–6

Acute and chronic respiratory complications of toxic epidermal necrolysis. McIvor RA, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):237–40

Competence and physical impairment of pediatric survivors of burns of more than 80% total body surface area. Moore P, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):547–51

Cellulitis associated with burn scars: a retrospective review. Mukhdomi GJ, et al. **J Burn Care Rehabil** 1996 Jul–Aug; 17(4):346–50

Chemical dependency in patients with burn injuries: a fortress of denial. Tabares R, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):283–6

Use of the expanded skin flap in esthetic reconstruction of postburn deformity. Yamamoto Y, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):397–401 (19 ref.)

Experience with toxic epidermal necrolysis treated in a burn center. Yarbrough DR 3rd. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):30–3

Bacterial infections in burns patients: a three years study at RML Hospital, Delhi. Sharma S, et al. **J Commun Dis** 1996 Jun;28(2):101–6

Baseline pain as a moderator of hypnotic analgesia for burn injury treatment. Patterson DR, et al. **J Consult Clin Psychol** 1997 Feb;65(1):60–7

Delayed postburn blisters: an immunohistochemical and ultrastructural study. Bergman R, et al. **J Cutan Pathol** 1997 Aug;24(7):429–33

Squamous cell carcinoma arising from lupus vulgaris on an old burn scar: diagnosis by polymerase chain reaction. Hagiwara K, et al. **J Dermatol** 1996 Dec;23(12):883–9 (17 ref.)

Chondritis of the ear: a late sequela of deep partial thickness burns of the face. Bentrem DJ, et al. **J Emerg Med** 1996 Jul–Aug;14(4):469–71

Subcapsular hematoma of the liver and pylethrombosis in the setting of cholestatic liver injury. Sakamoto H, et al. **J Gastroenterol** 1996 Dec;31(6):880–4

Holy water--a risk factor for hospital-acquired infection [see comments] Rees JC, et al. **J Hosp Infect** 1996 Jan;32(1):51–5 . Comment in: J Hosp Infect 1996 Aug;33(4):301. Comment in: J Hosp Infect 1996 Aug;33(4):302. Comment in: J Hosp Infect 1997 Jan;35(1):71–2.

Study of burn sepsis with special reference to Pseudomonas aeruginosa. Nagesha CN, et al. **J Indian Med Assoc** 1996 Jun;94(6):230–3

Subdural empyema due to external burns. Sekaran MR, et al. **J Indian Med Assoc** 1997 Mar;95(3):84

Acetaminophen in the management of background pain in children post-burn. Meyer WJ 3rd, et al. **J Pain Symptom Manage** 1997 Jan;13(1):50–5

Dysregulation of calcium homeostasis after severe burn injury in children: possible role of magnesium depletion. Klein GL, et al. **J Pediatr** 1997 Aug;131(2):246–51

Toxic shock syndrome and burns [letter; comment] Judkins K. **J R Soc Med** 1996 Sep;89(9):538–9. Comment on: J R Soc Med 1996 Feb;89(2):115P–6P. Comment on: J R Soc Med 1996 Jul;89(7):420.

Burn edema reduction by methysergide is not due to control of regional vasodilation. Ferrara JJ, et al. **J Surg Res** 1996 Feb 15;61(1):11–6

Dosage and timing of anti-TNF-alpha antibody treatment determine its effect of resistance to sepsis after injury. O'Riordain MG, et al. **J Surg Res** 1996 Jul 15;64(1):95–101

Range of motion and complications after postburn heterotopic bone excision about the elbow. Djurickovic S, et al. **J Trauma** 1996 Nov;41(5):825–30

Deletion of the p53 gene in a patient with aggressive burn scar carcinoma. Harland DL, et al. **J Trauma** 1997 Jan; 42(1):104–7

Incidence of bacteremia after burn wound manipulation in the early postburn period. Mozingo DW, et al. **J Trauma** 1997 Jun;42(6):1006–10; discussion 1010–1

Vascular complications after femoral artery catheterization in burn patients. Riker AI, et al. **J Trauma** 1996 Nov; 41(5):904–5

Infectious complications: prevention and strategies for their control. Greenfield E, et al. **Nurs Clin North Am** 1997 Jun; 32(2):297–309 (24 ref.)

Determinants of pain expression in hospitalized burn patients. Difede J, et al. **Pain** 1997 Aug;72(1–2):245–51

Prevalence and characteristics of chronic sensory problems in burn patients. Malenfant A, et al. **Pain** 1996 Oct; 67(2–3):493–500

Ketamine, an NMDA receptor antagonist, suppresses spatial and temporal properties of burn-induced secondary hyperalgesia in man: a double-blind, cross-over comparison with morphine and placebo. Warncke T, et al. **Pain** 1997 Aug;72(1–2):99–106

Pyogenic granuloma with multiple dissemination in a burn lesion. Ceyhan M, et al. **Pediatr Dermatol** 1997 May–Jun; 14(3):213–5

Hyperpigmented burn injuries of the face: treatment with the Q-switched ruby laser [letter] Raulin C, et al. **Plast Reconstr Surg** 1997 Jan;99(1):265–6

Toxic shock syndrome after burn injuries in children. Blomqvist L. **Scand J Plast Reconstr Surg Hand Surg** 1997 Mar;31(1):77–81

Acute erosions of the gastric mucosa in burned rats: effect of sucralfate. Samdal F, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):221–7

Effects of the angiotensin converting enzyme inhibitor enalapril on bacterial translocation after thermal injury and bacterial challenge. Gennari R, et al. **Shock** 1996 Aug; 6(2):95–100

[The application of expanded delto-pectoral flaps in the faciocervical region] Lu K, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):187–9 (Eng. Abstr.) **(Chi)**

[Clinical application of thoraco-umbilical skin flap] Luo S, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):219–21 (Eng. Abstr.) **(Chi)**

[Protective effect of lipid A monoclonal antibody against burn sepsis in rats] Xiao H, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):167–70 (Eng. Abstr.) **(Chi)**

[Early enteral feeding and supplement of glutamine prevent occurrence of stress ulcer following severe thermal injury] Yan R, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):189–92 (Eng. Abstr.) **(Chi)**

[Cervico-scapulo-dorsal reverse axial flap with pedicle including the transverse cervical artery] Zhang J, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):287–9 (Eng. Abstr.) **(Chi)**

[The development of skin external expander and clinical applications] Zhang M, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):161–4 (Eng. Abstr.) **(Chi)**

[Nosocomial infections in a burns unit. Results of a prospective study over a year] Cremer R, et al. **Ann Fr Anesth Reanim** 1996;15(5):599–607 (Eng. Abstr.) **(Fre)**

[Treatment of pain in children burns] Latarjet J, et al. **Arch Pediatr** 1997 Mar;4(3):278–84 (25 ref.) (Eng. Abstr.) **(Fre)**

[Effect of post-trauma endotoxemia on production of IL-1 beta in burn patients] Cembrzyńska-Nowak M. **Postepy Hig Med Dosw** 1996;50(5):537–40 (Eng. Abstr.) **(Pol)**

[Use of pefloxacin in the treatment of infected burn wounds] Iakovlev VP, et al. **Antibiot Khimioter** 1996 Jun;41(6):39–43 (Eng. Abstr.) **(Rus)**

[Ofloxacin in comprehensive treatment of infections in burn patients] Krutikov MG, et al. **Antibiot Khimioter** 1996; 41(9):77–80 (Eng. Abstr.) **(Rus)**

[Clinical results of Fortum and Zinacef trial in Burn Centers of Russia] Alekseev AA, et al. **Khirurgiia (Mosk)** 1996; (5):55–9 **(Rus)**

[Microsurgical tissue autotransplantation in the treatment of postburn deformations, neck and limb contractures] Iudenich AA. **Khirurgiia (Mosk)** 1997;(4):59–64 (Eng. Abstr.) **(Rus)**

[Prevention of burn wound infection in children] Ialovetskiĭ DM, et al. **Klin Khir** 1996;(5):53 **(Rus)**

[Acute profuse gastrointestinal hemorrhage in a patient with extensive thermal burns] Kozinets GP, et al. **Klin Khir** 1996;(5):52 **(Rus)**

[Experimental substantiation of the use of ligand-free albumin in burn toxemia] Sakhno LA, et al. **Klin Khir** 1996;(5):39-41 **(Rus)**

[The characteristics of the development of endogenous intoxication after chronic radiation exposure and thermal trauma] Nesterenko VS, et al. **Radiats Biol Radioecol** 1997 Mar-Apr;37(2):161-4 (Eng. Abstr.) **(Rus)**

[Acute renal insufficiency caused by burn injury] Zogović J, et al. **Srp Arh Celok Lek** 1996 Sep-Oct;124(9-10):241-5 (Eng. Abstr.) **(Scc)**

[Risk factors for local infection in burns. Multivariate study] Herruzo Cabrera R, et al. **Med Clin (Barc)** 1996 Jan 27; 106(3):91-4 (Eng. Abstr.) **(Spa)**

[Decrease of the incidence of sepsis syndrome after early enteral nutrition of patients with severe burns] Pereira JL, et al. **Nutr Hosp** 1996 Sep-Oct;11(5):274-8 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Timing of the thermographic assessment of burns. Liddington MI, et al. **Burns** 1996 Feb;22(1):26-8

Detection of white restorative dental materials using an alternative light source. Carson DO, et al. **Forensic Sci Int** 1997 Aug 4;88(2):163-8

Wound status evaluation using color image processing. Hansen GL, et al. **IEEE Trans Med Imaging** 1997 Feb; 16(1):78-86

Adjusting a prognostic score for burned children with logistic regression. Demirdjian G. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):313-6

Prompt diagnosis, treatment critical in workplace burn emergency response. Scully T, et al. **Occup Health Saf** 1994 Mar;63(3):80-1

DIET THERAPY

Protein metabolism and therapy in burn injury. Le Boucher J, et al. **Ann Nutr Metab** 1997;41(2):69-82 (117 ref.)

Urea and protein metabolism in burned children: effect of dietary protein intake. Patterson BW, et al. **Metabolism** 1997 May;46(5):573-8

DRUG THERAPY

Clinical pharmacokinetics of piperacillin-tazobactam combination in patients with major burns and signs of infection. Bourget P, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):139-45

Reduced resuscitation fluid volume for second-degree burns with delayed initiation of ascorbic acid therapy. Tanaka H, et al. **Arch Surg** 1997 Feb;132(2):158-61

Pathophysiology of the burn wound and pharmacological treatment. The Rudi Hermans Lecture, 1995. Arturson G. **Burns** 1996 Jun;22(4):255-74

Reduction of progressive burn injury by a stable prostaglandin I2 analogue, beraprost sodium (Procylin): an experimental study in rats. Battal MN, et al. **Burns** 1996 Nov;22(7):531-8

Suppressive effect of FC-43 perfluorocarbon emulsion on enhanced oxidative haemolysis in the early postburn phase. Bekyarova G, et al. **Burns** 1997 Mar;23(2):117-21

Effects of allopurinol, ibuprofen and cyclosporin A on local microcirculatory disturbance due to burn injuries. Cetinkale O, et al. **Burns** 1997 Feb;23(1):43-9

Does tea tree oil have a place in the topical treatment of burns? Faoagali J, et al. **Burns** 1997 Jun;23(4):349-51

Clinical effectiveness of an ointment containing prostaglandin E1 for the treatment of burn wounds. Gunji H, et al. **Burns** 1996 Aug;22(5):399-405

Oxidative organ damage in a rat model of thermal injury: the effect of cyclosporin A. Gürbüz V, et al. **Burns** 1997 Feb;23(1):37-42

Action of trypsin:chymotrypsin (Chymoral forte DS) preparation on acute-phase proteins following burn injury in humans. Latha B, et al. **Burns** 1997 Mar;23 Suppl 1:S3-7

Recombinant neutral endopeptidase decreases oedema in the skin of burned guinea-pigs. Neely AN, et al. **Burns** 1996 Nov;22(7):520-3

Effect of a bradykinin antagonist on the local inflammatory response following thermal injury. Nwariaku FE, et al. **Burns** 1996 Jun;22(4):324-7

Anisodamine restores bowel circulation in burn shock. Sheng CY, et al. **Burns** 1997 Mar;23(2):142-6

Increased dermal perfusion after skin burn injury by D-myo-inositol-1,2,6-trisphosphate. Tarnow P, et al. **Burns** 1996 Aug;22(5):363-8

The use of aztreonam as an alternate therapy for multi-resistant Pseudomonas aeruginosa. Walton MA, et al. **Burns** 1997 May;23(3):225-7

Topical application of eosin to burns produces interference in measurement of serum vancomycin by fluorescence polarization immunoassay. Leal T, et al. **Clin Chem** 1997 Jul;43(7):1238-40

Passage of silver ions through membrane-mimetic materials, and its relevance to treatment of burn wounds with silver sulfadiazine cream. Tsipouras N, et al. **Clin Chem** 1997 Feb; 43(2):290-301

Growth hormone treatment for burned children. Herndon DN, et al. **Horm Res** 1996;45 Suppl 1:29-31 (9 ref.)

The management of burns under conditions of limited resources using topical aqueous sulfamylon (mafenide) hydrochloride spray. Mendelson JA. **J Burn Care Rehabil** 1997 May-Jun;18(3):238-44

Lazaroids--not nitric oxide synthetase inhibitors--improve hemodynamics after thermal injury in anesthetized guinea pigs. Mosher M, et al. **J Burn Care Rehabil** 1996 Jul-Aug; 17(4):294-301

Debridement of porcine burns with a highly purified, ananain-based cysteine protease preparation. Orgill DP, et al. **J Burn Care Rehabil** 1996 Jul-Aug;17(4):311-22

Reduction of progressive burn injury by using a new nonselective endothelin-A and endothelin-B receptor antagonist, TAK-044: an experimental study in rats. Battal MN, et al. **Plast Reconstr Surg** 1997 May;99(6):1610-9

The use of a water extract from the bark of Choerospondias axillaris in the treatment of second degree burns. Nguyen DD, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Jun;30(2):139-44

Paradoxical positive nitrogen balance in burn patients receiving high-dose administration of insulin for nutritional care. Shiozaki T, et al. **Surgery** 1997 Sep;122(3):527-33

[Oxygen transport pattern in burned patient with sepsis under inotropic support] Wu Z, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):266-9 (Eng. Abstr.) **(Chi)**

[Human albumin solutions in the treatment of burned patients. Current indications] Carsin H. **Presse Med** 1997 Mar 29; 26(10):474-6 (15 ref.) (Eng. Abstr.) **(Fre)**

[Growth hormone for severely burnt patients] **Unfallchirurg** 1996 Mar;99(3 Suppl):1-4 **(Ger)**

[Morphological evaluation of the effect of collagenase from the Kamchatka crab Paralithodes camtschatica on the experimental thermal burn] Markovich NA, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):97-100 **(Rus)**

[The effects of bito on the rate of burn surface healing and the content of molecular products of lipid peroxidation during burn injury] L'vovskaia EI, et al. **Patol Fiziol Eksp Ter** 1996 Jul-Sep;(3):24-6 (Eng. Abstr.) **(Rus)**

[An interleukin-1 beta efficacy study in the treatment of combined radiation-thermal lesions] Ul'ianova LP, et al. **Radiats Biol Radioecol** 1997 Mar-Apr;37(2):175-81 (Eng. Abstr.) **(Rus)**

[In vitro effect of BITO preparation, ceruloplasmin, transferrin, and essentiale on the intensity of lipid peroxidation during thermal injury] L'vovskaia EI, et al. **Vopr Med Khim** 1996 Apr-Jun;42(2):125-7 (Eng. Abstr.) **(Rus)**

[Bio-antioxidant activity of 3,5-di-tert-butylpyrocatechol and its influence on hypoxia, inflammation, pain and burns] Shadyro OI, et al. **Vopr Med Khim** 1997 May-Jun; 43(3):153-7 (Eng. Abstr.) **(Rus)**

ECONOMICS

Managed health care: therapist responsibilities. Fletchall S, et al. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 1):61-3

The 1996 Everett Idris Evans Memorial Lecture. The cost of burns and the relevance of prevention. Keswani MH. **J Burn Care Rehabil** 1996 Nov-Dec;17(6 Pt 1):485-90

A burn center cost-reduction program. Mathews JJ, et al. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):358-63; discussion 357

[Budget analysis in a burn center for severely burned patients] Liebau J, et al. **Unfallchirurg** 1996 Nov;99(11):875-9 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Induction of glutamine synthetase expression after major burn injury is tissue specific and temporally variable. Abcouwer SF, et al. **J Trauma** 1997 Mar;42(3):421-7; discussion 427-8

EPIDEMIOLOGY

Epidemiology and mortality of 162 major burns in Kuwait. Bang RL, et al. **Burns** 1996 Sep;22(6):433-8

A 1-year prospective study of burns in an Irish paediatric burns unit. Cronin KJ, et al. **Burns** 1996 May;22(3):221-4

Containment of a multiresistant Serratia marcescens outbreak. Edgar P, et al. **Burns** 1997 Feb;23(1):15-8

Epidemiology of burns in Malaga, Spain. Fernández-Morales E, et al. **Burns** 1997 Jun;23(4):323-32

Burn repetitions in Ghanaian children: prevalence, epidemiological characteristics and socioenvironmental factors. Forjuoh SN. **Burns** 1996 Nov;22(7):539-42

Domestic central heating radiators: a cause for concern in all age groups. Harper RD, et al. **Burns** 1996 May; 22(3):217-20

Epidemiology of adults hospitalized with burns in Karachi, Pakistan. Marsh D, et al. **Burns** 1996 May;22(3):225-9

Epidemiological survey of childhood burn injuries in France. Mercier C, et al. **Burns** 1996 Feb;22(1):29-34

Burn injuries in the 1995 Hanshin-Awaji earthquake. Nakamori Y, et al. **Burns** 1997 Jun;23(4):319-22

Enhancing the quality and usefulness of epidemiological studies of burn injuries. Rossignol AM. **Burns** 1996 Sep; 22(6):429-32

Epidemiology of burns in a district hospital in western India. Subrahmanyam M. **Burns** 1996 Sep;22(6):439-42

An extraordinary cause of scalding injury in childhood. Türegün M, et al. **Burns** 1997 Mar;23(2):170-3

Scalds among children in Kuwait. Bang RL, et al. **Eur J Epidemiol** 1997 Jan;13(1):33-9

Reduction in paediatric burn admissions over 25 years, 1970-94. Streeton C, et al. **Inj Prev** 1997 Jun;3(2):104-9

Iron burns to the hand in the young pediatric patient: a problem in prevention. Brown RL, et al. **J Burn Care Rehabil** 1997 May-Jun;18(3):279-82

Burns of the world. Munster AM. **J Burn Care Rehabil** 1996 Nov-Dec;17(6 Pt 1):477-84 (112 ref.)

Childhood burns in camping and outdoor cooking accidents: a focus for prevention. Sheridan RL, et al. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):369-71

Kerosene heater-related injuries in children. Selbst SM, et al. **Pediatr Emerg Care** 1996 Apr;12(2):81-3

Burns in children younger than two years of age: an experience with 200 consecutive admissions. Sheridan RL, et al. **Pediatrics** 1997 Oct;100(4):721-3

[Burns are frequent among immigrant children] Svensson H, et al. **Lakartidningen** 1996 Oct 30;93(44):3905-6 **(Swe)**

ETIOLOGY

"Flaming Dr. Pepper"--another cause of recreational burn injury [letter] Gear AJ, et al. **Am J Emerg Med** 1997 Jan; 15(1):108-11

An unusual mechanism of burn injury due to flaming drinks. Still J, et al. **Am Surg** 1997 Mar;63(3):252-4

Burn in the mouth during oral laser surgery [letter] Asai T. **Anaesthesia** 1997 Aug;52(8):806-7

Is the sweat test safe? Some instances of burns received during pilocarpine iontophoresis. Rattenbury JM, et al. **Ann Clin Biochem** 1996 Sep;33 (Pt 5):456-8

Prevention of flash fires during facial surgery performed under local anesthesia. Howard BK, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):248-51

Thermal injuries following TRAM flap breast reconstruction. Alexandrides IJ, et al. **Ann Plast Surg** 1997 Apr; 38(4):335-41

Mechanisms of burn injury secondary to airbag deployment. Hallock GG. **Ann Plast Surg** 1997 Aug;39(2):111-3

Cutaneous lupus erythematosus following laser-induced thermal injury [letter; comment] Wolfe JT, et al. **Arch Dermatol** 1997 Mar;133(3):392-3. Comment on: Arch Dermatol 1996 Mar;132(3):354-5.

Petrol-related burns [letter; comment] Baruchin AM, et al. **Burns** 1996 Sep;22(6):504. Comment on: Burns 1995 Feb;21(1):36-8. Comment on: Burns 1995 Nov;21(7):539-41.

Severe burns resulting from an exploding teat on a bottle of infant formula milk heated in a microwave oven. Dixon JJ, et al. **Burns** 1997 May;23(3):268-9

Full-thickness foot burn of a pilgrim to Mecca. Fried M, et al. **Burns** 1996 Dec;22(8):644-5

Burns related to the use of psoralens as a tanning agent. Geary P. **Burns** 1996 Dec;22(8):636-7

Suicide by self-inflicted burns. Hadjiiski O, et al. **Burns** 1996 Aug;22(5):381-3

A retrospective study of etiopathological and preventive factors in a burns unit in Saudi Arabia. Mahaluxmivala S, et al. **Burns** 1997 Jun;23(4):333-7

Cement-related burns. Morley SE, et al. **Burns** 1996 Dec; 22(8):646-7

Psoralens used for cosmetic sun tanning: an unusual cause of extensive burn injury. Nettelblad H, et al. **Burns** 1996 Dec;22(8):633-5

Treatment of tea burns in Asian children [letter] Richards AM, et al. **Burns** 1996 Nov;22(7):580-1

Unusual ritual burns of the hand. Tay YG, et al. **Burns** 1996 Aug;22(5):409-12

An extraordinary cause of scalding injury in childhood. Türegün M, et al. **Burns** 1997 Mar;23(2):170-3

Burns of the female genitalia and perineum. Weiler-Mithoff EM, et al. **Burns** 1996 Aug;22(5):390-5 (28 ref.)

Dermal injury following the use of fiberoptic phototherapy in an extremely premature infant [see comments] Hussain K, et al. **Clin Pediatr (Phila)** 1996 Aug;35(8):421-2. Comment in: Clin Pediatr (Phila) 1997 Jun;36(6):369-71.

Fiberoptic phototherapy device unlikely to be cause of "thermal" skin injury [letter; comment] Wiswell TE. **Clin Pediatr (Phila)** 1997 Jun;36(6):369-71. Comment on: Clin Pediatr (Phila) 1996 Aug;35(8):421-2.

The relationship of different power settings and fiber geometries to thermal tissue damage created by the superpulse Nd:YAG laser. Shirk GJ, et al. **J Am Assoc Gynecol Laparosc** 1994 Aug;1(4 Pt 1):389-93

Thermal burns from a chemical foot warmer packet [letter] Kelsey RS. **J Am Podiatr Med Assoc** 1996 Apr;86(4):186-7

Extensive burns caused by the abusive use of photosensitizing agents. Braye F, et al. **J Burn Care Rehabil** 1997 Jul-Aug; 18(4):321-5

Chronic hyperpigmentation from a heated mustard compress burn: a case report. Linder SA, et al. **J Burn Care Rehabil** 1996 Jul-Aug;17(4):351-2 (3 ref.)

Thermal damage from laser ablation [letter; comment] Batlan SJ, et al. **J Cataract Refract Surg** 1996 Oct;22(8):1003. Comment on: J Cataract Refract Surg 1996 Apr;22(3):372-8.

Steam press hand burns: a serious burn injury. Woods JA, et al. **J Emerg Med** 1996 May-Jun;14(3):357-60

Burns associated with the use of monitoring equipment during MR procedures [letter] Shellock FG, et al. **J Magn Reson Imaging** 1996 Jan-Feb;6(1):271-2

Fires caused by hot disposable cauteries [letter; comment]

Laroche GR. **J Pediatr Ophthalmol Strabismus** 1996 Mar–Apr;33(2):134. Comment on: J Pediatr Ophthalmol Strabismus 1995 Nov–Dec;32(6):389–91.

Fire walking in Singapore: a profile of the burn patient. Sayampanathan SR, et al. **J R Coll Surg Edinb** 1997 Apr; 42(2):131–4

From the Centers for Disease Control and Prevention. Home radiator burns among inner–city children––Chicago, September 1991–April 1994. **JAMA** 1996 Nov 6; 276(17):1374

Home radiator burns among inner–city children––Chicago, September 1991–April 1994.
MMWR Morb Mortal Wkly Rep 1996 Sep 27;45(38):814–5

Effect of a screening profile on the diagnosis of nonaccidental burns in children. Clark KD, et al. **Pediatr Emerg Care** 1997 Aug;13(4):259–61

Iatrogenic scald burn: a consequence of institutional infection control measures. Mirowski GW, et al. **Pediatrics** 1996 Nov;98(5):963–5

Phototoxic skin reaction to UVR––is "sunburn" a "burn"? Urbach F. **Photodermatol Photoimmunol Photomed** 1996 Oct;12(5):219–21

Thermal injury to TRAM flaps: a report of five cases. Beckenstein MS, et al. **Plast Reconstr Surg** 1997 May; 99(6):1606–9

Susceptibility of the insensate reconstructed breast to burn injury [letter; comment] Kay AR, et al.
Plast Reconstr Surg 1997 Mar;99(3):927. Comment on: Plast Reconstr Surg 1996 May;97(6):1306–7.

Heating pad burn of a reconstructed breast [letter] Restifo RJ. **Plast Reconstr Surg** 1997 Aug;100(2):547–8

[Scalds in children caused by water from toppled electrical kettles. Mechanisms, costs and preventive measures] Sheller JP, et al. **Ugeskr Laeger** 1996 Dec 9;158(50):7233–6 (Eng. Abstr.) **(Dan)**

[Playing with fire...] Bar–Dayan Y, et al. **Harefuah** 1996 Dec 1;131(11):474–6, 535 (Eng. Abstr.) **(Heb)**

[Thermal colorectal lesions] Neves C, et al.
Acta Med Port 1996 Oct–Dec;9(10–12):407–8 (Eng. Abstr.) **(Por)**

HISTORY

"Time is the healer": McIndoe's guinea pigs fifty years on. Godwin Y. **Br J Plast Surg** 1997 Feb;50(2):88–98

Treatment of burn scars and contractures in the early seventeenth century: Wilhelm Fabry's approach. Naylor IL, et al. **Med Hist** 1996 Oct;40(4):472–86

IMMUNOLOGY

Neutrophils from patients after burn injury express a deficiency of the oxidase components p47–phox and p67–phox. Rosenthal J, et al. **Blood** 1996 Dec 1; 88(11):4321–9

Immunological responses to thermal injury. Sparkes BG. **Burns** 1997 Mar;23(2):106–13 (83 ref.)

A relationship between the generation of burn–associated type 2 T cells and their antagonistic cells in thermally injured mice. Utsunomiya T, et al. **Burns** 1997 Jun; 23(4):281–7

Postburn edema and related changes in interleukin–2, leukocytes, platelet activation, endothelin–1, and C1 esterase inhibitor. Kowal–Vern A, et al.
J Burn Care Rehabil 1997 Mar–Apr;18(2):99–103

Changes in memory and naive CD4+ lymphocytes in lymph nodes and spleen after thermal injury. Lawrence MH, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):1–6

Neutrophil recruitment after remote scald injury. Stengle J, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):14–8

Differences in IgM synthesis to gut bacterial peptidoglycan polysaccharide after burn injury and gut ischemia. Tabata T, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):231–6

Influence of severe burn injury on the expression of RM 3/1 and HLA–DR antigens in human blood monocytes. Zwadlo–Klarwasser G, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):287–93

Serum levels of immunoglobulins in thermal burns. Bariar LM, et al. **J Indian Med Assoc** 1996 Apr;94(4):133–4

Early but not late burn wound excision partially restores viral–specific T lymphocyte cytotoxicity. Hultman CS, et al. **J Trauma** 1997 Sep;43(3):441–7

CD4– CD8– TCR alpha/beta+ suppressor T cells demonstrated in mice 1 day after thermal injury. Matsuo R, et al. **J Trauma** 1997 Apr;42(4):635–40

CD4– CD8– TCR alpha/beta+ suppressor T cells demonstrated in mice 1 day after thermal injury [letter] Munster AM. **J Trauma** 1997 Sep;43(3):562

Randomized trial of immune–enhancing enteral nutrition in burn patients. Saffle JR, et al. **J Trauma** 1997 May; 42(5):793–800; discussion 800–2

Effect of cyclo–oxygenase inhibition on in vitro B–cell function after burn injury. Yamamoto H, et al.
J Trauma 1996 Oct;41(4):612–9; discussion 620–1

Influence of selective decontamination of the digestive tract on cell–mediated immune function and bacteria/endotoxin translocation in thermally injured rats. Yao YM, et al.
J Trauma 1997 Jun;42(6):1073–9

Postburn constitutional changes in T–cell reactivity occur in CD8+ rather than in CD4+ cells. Zedler S, et al.
J Trauma 1997 May;42(5):872–80; discussion 880–1

Interactions of ACTH and TGF beta on monocyte proliferation: implications for trauma and burn patients. DeKeyser FG, et al. **Res Nurs Health** 1996 Dec;19(6):511–6

Measurement of interleukin–6, interleukin–10, and tumor necrosis factor–alpha levels in tissues and plasma after thermal injury in mice. Kawakami M, et al. **Surgery** 1997 Apr;121(4):440–8

Anti–interleukin–10 antibody restores burn–induced defects in T–cell function. Kelly JL, et al. **Surgery** 1997 Aug; 122(2):146–52

[Effect of lysostaphin on phagocyte function in burn mice] Huan J, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 Jul;11(4):255–7 (Eng. Abstr.) **(Chi)**

[A study of immune suppression activity of serum from burned rabbits] Li L, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):135–7 (Eng. Abstr.) **(Chi)**

[Changes in free calcium concentration and protein kinase C activity in activated T cells of burn mice and their significance] Liang H, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 Jul;11(4):262–5 (Eng. Abstr.) **(Chi)**

[The effect of dynorphin A on intracellular cAMP and cGMP contents in spleen cells of burn rats and its relation to immune function] Ni X, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 Jul;11(4):258–61 (Eng. Abstr.) **(Chi)**

[Enhancement of gut immune function by early enteral feeding enriched with L–glutamine in severe burned miniswines] Yu B, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):98–100 (Eng. Abstr.) **(Chi)**

[An experimental study on injury of intestinal immuno–barrier in rat after scald] Yu Y, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):86–9 (Eng. Abstr.) **(Chi)**

[Effect of lipid peroxide on lymphocytes and its role in postburn immunosuppression] Zhang Q, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 May;11(3):205–8 (Eng. Abstr.) **(Chi)**

[Anti–C5a suppresses post–traumatic permeability damage of the lung after severe burn trauma] Schmid E, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:631–4 (Eng. Abstr.) **(Ger)**

[Immobilized proteases and their activators as immunocorrective agents] Khmelevskaia IG, et al.
Antibiot Khimioter 1997;42(3):11–4 (Eng. Abstr.) **(Rus)**

[Anticardiolipin antibodies are released from the bound state during development of burn shock] Abakushin DN, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):425–6 **(Rus)**

[Relationship between changes in factors of nonspecific resistance during traumatic and burn shock] Kharin GM, et al. **Biull Eksp Biol Med** 1997 May;123(5):541–4 **(Rus)**

[Effects of allogeneic anti–Bacillus pyocyaneus and anti–Proteus plasma humoral and cellular immunity in patients with severe burns] Nazarchuk LV. **Klin Khir** 1996; (5):29–31 **(Rus)**

[Cytological study of wounds using detoxication and nondrug immunomodulation in patients with severe burns] Slesarenko SV, et al. **Klin Khir** 1996;(5):23–7 **(Rus)**

[Magnetic laser correction of secondary immunodeficiency in acute pancreatitis and burn trauma] Kiiazeva LI, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):29–31 (Eng. Abstr.) **(Rus)**

METABOLISM

Exudative mineral losses after serious burns: a clue to the alterations of magnesium and phosphate metabolism. Berger MM, et al. **Am J Clin Nutr** 1997 May;65(5):1473–81

Ornithine alpha–ketoglutarate metabolism after enteral administration in burn patients: bolus compared with continuous infusion. Le Bricon T, et al.
Am J Clin Nutr 1997 Feb;65(2):512–8

Herman Award Lecture, 1996: relation of metabolic studies to clinical nutrition––the example of burn injury. Wolfe RR. **Am J Clin Nutr** 1996 Nov;64(5):800–8

Ornithine alpha–ketoglutarate modulates tissue protein metabolism in burn–injured rats. Le Boucher J, et al.
Am J Physiol 1997 Sep;273(3 Pt 1):E557–63

Nitrate analysis in biological fluids by gas chromatography–nitrogen–phosphorous detection.
Johnson AA, et al. **Anal Biochem** 1996 May 1;236(2):331–7

Protein metabolism and therapy in burn injury. Le Boucher J, et al. **Ann Nutr Metab** 1997;41(2):69–82 (117 ref.)

Ciprofloxacin pharmacokinetics in burn patients. Garrelts JC, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1153–6

Water vapour transmission rates in burns and chronic leg ulcers: influence of wound dressings and comparison with in vitro evaluation. Wu P, et al. **Biomaterials** 1996 Jul; 17(14):1373–7

Reduced erythrocyte deformability related to activated lipid peroxidation during the early postburn period. Bekyarova G, et al. **Burns** 1996 Jun;22(4):291–4

Changes in substance P in the jejuna of rats after burns. Hu D, et al. **Burns** 1996 Sep;22(6):463–7

Markedly increased lymphatic removal of hyaluronan from skin after major thermal injury. Onarheim H, et al.
Burns 1996 May;22(3):212–6

Enteral administration of ornithine alpha–ketoglutarate or arginine alpha–ketoglutarate: a comparative study of their effects on glutamine pools in burn–injured rats. Le Boucher J, et al. **Crit Care Med** 1997 Feb;25(2):293–8

Lack of effect of sleep on energy expenditure and physiologic measures in critically ill burn patients. Gottschlich MM, et al. **J Am Diet Assoc** 1997 Feb;97(2):131–9

Urinary urea nitrogen is imprecise as a predictor of protein balance in burned children. Prelack K, et al.
J Am Diet Assoc 1997 May;97(5):489–95

Pharmacokinetics of a single dose of teicoplanin in burn patients. Steer JA, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):545–53

Na+ channel and acetylcholine receptor changes in muscle at sites distant from burns do not simulate denervation. Nosek MT, et al. **J Appl Physiol** 1997 Apr;82(4):1333–9

Resuscitation of thermally injured patients with oxygen transport criteria as goals of therapy. Barton RG, et al.
J Burn Care Rehabil 1997 Jan–Feb;18(1 Pt 1):1–9

Expression of cyclin protein after thermal skin injury in a guinea pig model. DeCherney AH, et al.
J Burn Care Rehabil 1997 Jul–Aug;18(4):292–8

Comparison of the metabolic response to burn injury in obese and nonobese patients. Ireton–Jones C.
J Burn Care Rehabil 1997 Jan–Feb;18(1 Pt 1):82–5; discussion 81

Endothelin–1, interleukin–6, and interleukin–8 levels increase in patients with burns. McMillen MA, et al.
J Burn Care Rehabil 1996 Sep–Oct;17(5):384–9

Nutrition in patients with severe burns: state of the art. Rodriguez DJ. **J Burn Care Rehabil** 1996 Jan–Feb; 17(1):62–70 (53 ref.)

Kinetics of soluble interleukin–2 receptor after mechanical and burn trauma. Schinkel C, et al.
J Burn Care Rehabil 1997 May–Jun;18(3):210–3

NMR relaxation studies on hepatic intracellular and extracellular sodium in rats with burn injury. Xia Z, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):193–9

Plasma levels of interleukin–1 receptor antagonist (IL–1ra) and severity of illness in patients with burns. Endo S, et al. **J Med** 1996;27(1–2):57–71

Monocyte chemoattractant protein–1 mRNA expression in the human burn wound. Gibran NS, et al. **J Surg Res** 1997 Jun;70(1):1–6

Monoclonal antibody to intercellular adhesion molecule–1 reduces cardiac contractile dysfunction after burn injury in rabbits. Horton JW, et al. **J Surg Res** 1996 Jul 15; 64(1):49–56

Relationship between energetic, ionic, and functional status in the perfused rat heart following thermal injury: a 31P and 23Na NMR study. Xia ZF, et al. **J Surg Res** 1997 Apr;69(1):212–9

Manipulation of the inflammatory response to burn injury. Cone JB, et al. **J Trauma** 1997 Jul;43(1):41–5; discussion 45–6

Alterations in leukocyte adhesion molecule expression after burn injury [letter] Dressler J, et al. **J Trauma** 1997 Jan; 42(1):150

Urea and protein metabolism in burned children: effect of dietary protein intake. Patterson BW, et al. **Metabolism** 1997 May;46(5):573–8

Paradoxical positive nitrogen balance in burn patients receiving high–dose administration of insulin for nutritional care. Shiozaki T, et al. **Surgery** 1997 Sep;122(3):527–33

[Experimental studies on the pharmacokinetics of cefoperazone (CPZ) injection under burn eschar] Han F, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 May;11(3):212–5 (Eng. Abstr.) **(Chi)**

[Observation and analysis of postburn changes in substance P (SP) and SP peptidergic nerve fibers in the intestine of rat] Hu D, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):93–7 (Eng. Abstr.) **(Chi)**

[Analysis of collagen in burned skin with SDS–polyacrylamide gel electrophoresis] Hu Y, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 Jul;11(4):277–9 (Eng. Abstr.) **(Chi)**

[Effects of thermal injury on heart sialic acid content in rats] Huan J, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 May;12(3):174–6 (Eng. Abstr.) **(Chi)**

[Changes in intracellular K+ concentration and ATPase activity of myocardiocytes in early stage of burn injury] Li M, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 May;12(3):177–9 (Eng. Abstr.) **(Chi)**

[A study of the expression and localization of tumor necrosis factor mRNA in small intestine of rats after severe burn] Yuan J, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 May;12(3):163–6 (Eng. Abstr.) **(Chi)**

[The injury of liver and kidney of rats sustaining delayed fluid resuscitation of burn shock] Lu W, et al.
Chung Hua Wai Ko Tsa Chih 1995 Dec;33(12):745–8 (Eng. Abstr.) **(Chi)**

[An experimental study of the expression and localization of tumor necrosis factor mRNA in liver of rats with severe burn] Yuan J, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):636–8 (Eng. Abstr.) **(Chi)**

[Resistance to vecuronium in burnt patients. Influence of the burnt surface on the effectiveness of the dose 95] Badetti C, et al. **Ann Fr Anesth Reanim** 1996;15(2):135–41 (Eng. Abstr.) **(Fre)**

[Energy requirements of the burned patient] Kaufman T, et al. **Harefuah** 1997 Feb 2;132(3):219–22 (35 ref.) **(Heb)**

[Demonstration of heat shock protein, ubiquitin, in fire death

autopsy cases by immunohistochemical study] Shoji T. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):70–6 (Eng. Abstr.) **(Jpn)**

[Changes in cell membrane lipid composition when exposed to native plasma proteins during thermal trauma] L'vovskaia EI, et al. **Vopr Med Khim** 1996 Oct–Dec; 42(4):312–3 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Aeromonas bacteraemia in burn patients. Barillo DJ, et al. **Burns** 1996 Feb;22(1):48–52 (33 ref.)

Bacterial translocation in D–galactosamine–treated rats in a burn model. Dijkstra HM, et al. **Burns** 1996 Feb;22(1):15–21

A comparison of phenotypic properties of Staphylococcus aureus isolated from burned children and other patient groups. Edwards–Jones V, et al. **Burns** 1996 Aug; 22(5):384–9

Unusual development of granulomas on the healing surface of burn wounds associated with MRSA infections. Gang RK, et al. **Burns** 1996 Feb;22(1):57–61

Quantitative microbiology in the management of burn patients. I. Correlation between quantitative and qualitative burn wound biopsy culture and surface alginate swab culture. Steer JA, et al. **Burns** 1996 May;22(3):173–6

Quantitative microbiology in the management of burn patients. II. Relationship between bacterial counts obtained by burn wound biopsy culture and surface alginate swab culture, with clinical outcome following burn surgery and change of dressings. Steer JA, et al. **Burns** 1996 May; 22(3):177–81

Characterization of Bacillus thuringiensis isolated from infections in burn wounds. Damgaard PH, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):47–53

Effect of thermal injury on the adherence of Candida albicans to murine splenic tissue. Neely AN, et al. **Infect Immun** 1997 Aug;65(8):3493–5

Mild hypotension and body burns synergistically increase bacterial translocation in rats consistent with a "two–hit phenomenon". Mishima S, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):22–6

Effects of recombinant bactericidal, permeability–increasing protein on bacterial translocation and pulmonary neutrophil sequestration in burned mice. Rennekampff OH, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):17–21

Much ado about nothing: methicillin–resistant Staphylococcus aureus. Shannon T, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):326–31

Study of burn sepsis with special reference to Pseudomonas aeruginosa. Nagesha CN, et al. **J Indian Med Assoc** 1996 Jun;94(6):230–3

Granulocyte colony–stimulating factor enhances killing of translocated bacteria but does not affect barrier function in a burn mouse model. Eaves–Pyles T, et al. **J Trauma** 1996 Dec;41(6):1013–7

Influence of selective decontamination of the digestive tract on cell–mediated immune function and bacteria/endotoxin translocation in thermally injured rats. Yao YM, et al. **J Trauma** 1997 Jun;42(6):1073–9

Effects of granulocyte colony–stimulating factor on bacterial translocation due to burn wound sepsis. Yalçin O, et al. **Surg Today** 1997;27(2):154–8

[The changes in mucus components of intestine after burn and their relationship with bacterial translocation] Bai X, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):90–2 (Eng. Abstr.) **(Chi)**

[Intestinal lymphatic circulation is one of the important portals for microbial translocation after thermal injury] Peng Y, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):83–5 (Eng. Abstr.) **(Chi)**

[The role of complement in inhibition of intracellular bactericidal activity to P. aeruginosa of PMN in seriously burnt patients] Wang Z, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):197–201 (Eng. Abstr.) **(Chi)**

[Enterogenous infections (editorial)] Xiao G. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):81–2 **(Chi)**

[Mycethemia: an analysis of 56 cases] Zhang H, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):132–4 (Eng. Abstr.) **(Chi)**

[Clinical analysis of anaerobic septicemia in 26 patients with extensive burn] Huang X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):752–3 (Eng. Abstr.) **(Chi)**

[The causative agent of wound infection and sepsis in burn patients] Pal'tsyn AA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):84–6 (Eng. Abstr.) **(Rus)**

MORTALITY

Mortality determinants in massive pediatric burns. An analysis of 103 children with > or = 80% TBSA burns (> or = 70% full–thickness). Wolf SE, et al. **Ann Surg** 1997 May;225(5):554–65; discussion 565–9

Secretary of state for health declines to promote free distribution of smoke alarms [letter] Roberts I. **BMJ** 1996 Sep 28;313(7060):814

Suicides by burning in England and Wales. Prosser D. **Br J Psychiatry** 1996 Feb;168(2):175–82

The impact of risk factors and pre–existing conditions on the mortality of burn patients and the precision of predictive admission–scoring systems. Germann G, et al. **Burns** 1997 May;23(3):195–203

Shack fires: a consequence of urban migration. Godwin Y, et al. **Burns** 1997 Mar;23(2):151–3

Temperature profiles during resuscitation predict survival following burns complicated by smoke inhalation injury. Platt AJ, et al. **Burns** 1997 May;23(3):250–5

Burn patients in a critical care burn unit [letter; comment] Sjöberg F, et al. **Burns** 1996 Aug;22(5):422–4. Comment on: Burns 1995 Mar;21(2):106–9.

Improved survival of adults with extensive burns. Fratianne RB, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):347–51

Simulated biologic intelligence used to predict length of stay and survival of burns. Frye KE, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):540–6

Comparison of length of hospital stay to mortality rate in a regional burn center. Peck MD, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):39–44

Predicting mortality in adult burned patients: methodological aspects of the construction and validation of a composite ratio scale. Coste J, et al. **J Clin Epidemiol** 1996 Oct; 49(10):1125–31

An analysis of the factors contributing to mortality rates in burns patients treated at Mpilo Central Hospital, Zimbabwe. Muguti GI, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):259–61

[An analysis of burn cases in the last decade] Li G, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):184–8 (Eng. Abstr.) **(Chi)**

[Are special burn scores necessary in intensive care?] Neulinger A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:328–30 (Eng. Abstr.) **(Ger)**

NURSING

Burn management. Rehabilitation. Pessina MA, et al. **Nurs Clin North Am** 1997 Jun;32(2):365–74 (14 ref.)

The primary care management of burns. Allwood JS. **Nurse Pract** 1995 Aug;20(8):74, 77–9, 83 passim (13 ref.)

PATHOLOGY

Characterization of a new in vitro burn wound model. Emanuelsson P, et al. **Burns** 1997 Feb;23(1):32–6

Calculation of a new Meeh constant and experimental determination of burn size. Gilpin DA. **Burns** 1996 Dec; 22(8):607–11

Heat shock zone of the burn wound [letter] Harada T, et al. **Burns** 1996 Nov;22(7):578–9

Use of invasive cardiovascular monitoring in patients with burns greater than 30 per cent body surface area: a survey of 251 centres. Mansfield MD, et al. **Burns** 1996 Nov; 22(7):549–51

How big is a hand? Rossiter ND, et al. **Burns** 1996 May; 22(3):230–1

Implication of basement membrane development on the underlying scar in partial–thickness burn injury. Wood FM, et al. **Burns** 1996 Sep;22(6):459–62

The index of deep burn injury: an analysis of 66 extremity sites in 15 children. Zhu X, et al. **Burns** 1997 Feb;23(1):11–4

Digital image analysis (DIA) of colour changes in human skin exposed to standardized thermal injury and comparison with laser Doppler measurements. Mattsson U, et al. **Comput Methods Programs Biomed** 1996 Jun;50(1):31–42

Malignant melanoma and squamous cell carcinoma forming one tumour on a burn scar. Akiyama M, et al. **Dermatology** 1997;194(2):157–61

An experimental model to produce partial thickness burn wound. Bairy KL, et al. **Indian J Exp Biol** 1997 Jan; 35(1):70–2

Degree of burn, location of burn, and length of hospital stay as predictors of psychosocial status and physical functioning. Baker RA, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):327–33

Substance P has a role in neurogenic mediation of human burn wound healing. Dunnick CA, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):390–6

Antioxidants prevent the cellular deficit produced in response to burn injury. LaLonde C, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):379–83

Progressive burn injury documented with vimentin immunostaining. Nanney LB, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):191–8

Fluorescein and burn depth [letter; comment] Peled IJ. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):378. Comment on: J Burn Care Rehabil 1995 Nov–Dec;16(6):602–4.

Effects of recombinant bactericidal, permeability–increasing protein on bacterial translocation and pulmonary neutrophil sequestration in burned mice. Rennekampff OH, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):17–21

HIV–infected Langerhans cells constitute a significant proportion of the epidermal Langerhans cell population throughout the course of HIV disease. Compton CC, et al. **J Invest Dermatol** 1996 Dec;107(6):822–6

Amelanotic Spitzoid melanoma in the burn scar of a child. Ghorbani Z, et al. **Pediatr Dermatol** 1996 Jul–Aug; 13(4):285–7

[Protective effect of ATP–MgCl2 on gut mucosa in burn rat] Su Y, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):171–3 (Eng. Abstr.) **(Chi)**

[Vitality and possible causes of punctate hemorrhages in the lower brain stem of a burned corpse] Schulz F, et al. **Arch Kriminol** 1996 Nov–Dec;198(5–6):160–6 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Lipofuscin product accumulation, insufficient antioxidant defence in erythrocytes and plasma and enhanced susceptibility to oxidative haemolysis after thermal trauma. Bekyarova G, et al. **Acta Chir Plast** 1997;39(2):60–4

Chronic parasite infection in mice induces brain granulomas and differentially alters brain nerve growth factor levels and thermal responses in paws. Aloe L, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):300–5

Augmentation of hypoxic pulmonary vasoconstriction by N(G)–L–methyl–arginine in a rabbit model of thermal injury. Mayers I, et al. **Am J Emerg Med** 1996 Nov; 14(7):629–34

Cellular basis for burn–mediated cardiac dysfunction in adult rabbits. Horton JW. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2615–21

Reduced resuscitation fluid volume for second–degree burns with delayed initiation of ascorbic acid therapy. Tanaka H, et al. **Arch Surg** 1997 Feb;132(2):158–61

Involvement of sensory neuropeptides in the development of plasma extravasation in rat dorsal skin following thermal injury. Siney L, et al. **Br J Pharmacol** 1996 Mar; 117(6):1065–70

Pathophysiology of the burn wound and pharmacological treatment. The Rudi Hermans Lecture, 1995. Arturson G. **Burns** 1996 Jun;22(4):255–74

Effect of a prostaglandin I2 analogue, beraprost sodium, on burn–induced gastric mucosal injury in rats. Battal MN, et al. **Burns** 1997 May;23(3):232–7

Characterization of a new in vitro burn wound model. Emanuelsson P, et al. **Burns** 1997 Feb;23(1):32–6

Circulating levels of tumour necrosis factor, interleukin 6 and proteolytic activity in a murine model of burn and infection. Neely AN, et al. **Burns** 1996 Nov;22(7):524–30

Burn injuries, pain and distress: exploring the role of stress symptomatology. Taal LA, et al. **Burns** 1997 Jun; 23(4):288–90

The effect of burn blister fluid on fibroblast contraction. Wilson AM, et al. **Burns** 1997 Jun;23(4):306–12

Analysis of thermal injury–induced insulin resistance in rodents. Implication of postreceptor mechanisms. Ikezu T, et al. **J Biol Chem** 1997 Oct 3;272(40):25289–95

Prolonged use of propranolol safely decreases cardiac work in burned children. Baron PW, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):223–7

A burn wound healing model in the hairless descendant of the Mexican hairless dog. Matsumura H, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):306–12

Procedural burn pain intensity under conditions of varying physical control by the patient. Sutherland S. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):457–63

Protein expression of fibroblast growth factor receptor–1 in keratinocytes during wound healing in rat skin. Takenaka H, et al. **J Invest Dermatol** 1997 Jul;109(1):108–12

Neutrophil activation and tissue neutrophil sequestration in a rat model of thermal injury. Hansbrough JF, et al. **J Surg Res** 1996 Feb 15;61(1):17–22

Oxygen free radicals contribute to postburn cardiac cell membrane dysfunction. Horton JW. **J Surg Res** 1996 Feb 15;61(1):97–102

Monoclonal antibody to intercellular adhesion molecule–1 reduces cardiac contractile dysfunction after burn injury in rabbits. Horton JW, et al. **J Surg Res** 1996 Jul 15; 64(1):49–56

Down–regulation of tissue specific tumor necrosis factor–alpha in the liver and lung after burn injury and endotoxemia. Clancy KD, et al. **J Trauma** 1997 Feb; 42(2):169–76

A novel model to study the effects of burn lymph on pulmonary vascular hemodynamic variables. Hao Q, et al. **J Trauma** 1997 Sep;43(3):453–7

Management of the pediatric burn patient. Cortiella J, et al. **Nurs Clin North Am** 1997 Jun;32(2):311–29 (33 ref.)

Prevalence and characteristics of chronic sensory problems in burn patients. Malenfant A, et al. **Pain** 1996 Oct; 67(2–3):493–500

Long–term effect of postburn neck contractures on mandibular growth [letter; comment] Uzunismail A, et al. **Plast Reconstr Surg** 1997 Mar;99(3):918–9. Comment on: Plast Reconstr Surg 1995 Dec;96(7):1588–99.

Differential effects of acute thermal injury on rat splanchnic and renal blood flow and prostanoid release. Myers SI, et al. **Prostaglandins Leukot Essent Fatty Acids** 1995 Dec; 53(6):439–44

Requirement for C5a in lung vascular injury following thermal trauma to rat skin. Schmid E, et al. **Shock** 1997 Aug;8(2):119–24

Effect of burn injury on glucose and nitrogen metabolism in the liver: preliminary studies in a perfused liver system. Yamaguchi Y, et al. **Surgery** 1997 Mar;121(3):295–303

[Early changes in cardiac function and beta–ARs in heart after severe scalds in rat] Sun J, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):180–2 (Eng. Abstr.) **(Chi)**

[Enhancement of gut absorptive function by early enteral feeding enriched with L–glutamine in severe burned

miniswines] Yu B, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):742–4 (Eng. Abstr.) **(Chi)**

[Modified chitosan as a stimulant of reparative skin regeneration] Tolstikova TG, et al. **Dokl Akad Nauk** 1996 Oct;350(4):557–9 **(Rus)**

[Effects of enterosorption on the morphofunctional state of the hypothalamo–neurohypophyseal system in severe burns] Volkov KS. **Klin Khir** 1996;(5):31–3 **(Rus)**

PREVENTION & CONTROL

Burns and epilepsy. Berrocal M. **Acta Chir Plast** 1997; 39(1):22–7

A retrospective study of etiopathological and preventive factors in a burns unit in Saudi Arabia. Mahaluxmivala S, et al. **Burns** 1997 Jun;23(4):333–7

Reducing the incidence of tap-water scalds: strategies for physicians. Huyer DW, et al. **Can Med Assoc J** 1997 Mar 15;156(6):841–4

The 1996 Everett Idris Evans Memorial Lecture. The cost of burns and the relevance of prevention. Keswani MH. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):485–90

Childhood burns in camping and outdoor cooking accidents: a focus for prevention. Sheridan RL, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):369–71

Steam press hand burns: a serious burn injury. Woods JA, et al. **J Emerg Med** 1996 May–Jun;14(3):357–60

PSYCHOLOGY

Development and utilization of a psychometric instrument for measuring quality of life in burn patients, 1976 to 1996. Munster AM, et al. **Acta Chir Plast** 1996;38(4):128–31

Suicide by self–incineration. Leth P, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):113–8

Early avoidance of traumatic stimuli predicts chronicity of intrusive thoughts following burn injury. Lawrence JW, et al. **Behav Res Ther** 1996 Aug;34(8):643–6

Three years of an adult burns support group: an analysis. Cooper R, et al. **Burns** 1996 Feb;22(1):65–8

A study of self–monitoring processes and coping behaviour in burns victims. Fong J. **Burns** 1997 Mar;23 Suppl 1:S8–11

Emotional and psychosocial factors in burn patients during hospitalization. Franulic A, et al. **Burns** 1996 Dec; 22(8):618–22

Emotional aspects in burn patients: usage of a health state classification system. Pardo Mateu L, et al. **Burns** 1996 Aug;22(5):396–8

About changing faces: promoting a good quality of life for people with visible disfigurements. Partridge J. **Burns** 1997 Mar;23(2):186–7

Applying what burn survivors have to say to future therapeutic interventions. Robert R, et al. **Burns** 1997 Feb; 23(1):50–4

The burn specific pain anxiety scale: introduction of a reliable and valid measure. Taal LA, et al. **Burns** 1997 Mar; 23(2):147–50

Posttraumatic stress symptoms and medical procedures in children. Wintgens A, et al. **Can J Psychiatry** 1997 Aug; 42(6):611–6 (44 ref.)

Profiles and treatment of attempted suicide by self–immolation. Antonowicz JL, et al. **Gen Hosp Psychiatry** 1997 Jan;19(1):51–5

Emotional disturbances in trauma patients during the rehabilitation phase: studies of posttraumatic stress disorder and alexithymia. Fukunishi I, et al. **Gen Hosp Psychiatry** 1996 Mar;18(2):121–7

Aspects of sexuality after burn injury: outcomes in men. Bianchi TL. **J Burn Care Rehabil** 1997 Mar–Apr; 18(2):183–6; discussion 182

The burn camp experience: variables that influence the enhancement of self–esteem. Biggs KS, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):93–8; discussion 92–3

Sexual dysfunction and the patient with burns. de Rios MD, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):37–42

Parent participation during burn debridement in relation to behavioral distress. Foertsch CE, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):372–7; discussion 371

Psychologic factors involved in the decision to undergo reconstructive surgery after burn injury. Heinberg LJ, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):374–80

Results of a hospital survey to determine the extent and type of psychologic services offered to patients with severe burns. Holaday M, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):280–4

Who chooses to undergo reconstructive surgery? Empirically confirming the subjectivity and social basis of body image. Pruzinsky T. **J Burn Care Rehabil** 1997 Jul–Aug; 18(4):372–4

Postburn psychologic adaptation of family members of patients with burns. Watkins PN, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):78–92

Baseline pain as a moderator of hypnotic analgesia for burn injury treatment. Patterson DR, et al. **J Consult Clin Psychol** 1997 Feb;65(1):60–7

An exploratory study of pain, coping, and depressed mood following burn injury. Ulmer JF. **J Pain Symptom Manage** 1997 Mar;13(3):148–57

Burn management. Psychosocial interventions: pharmacologic and psychologic modalities. Davis ST, et al. **Nurs Clin North Am** 1997 Jun;32(2):331–42 (56 ref.)

Preburn psychiatric history affects posttrauma morbidity. Fauerbach JA, et al. **Psychosomatics** 1997 Jul–Aug; 38(4):374–85

Preinjury psychiatric illness and postinjury adjustment in adult burn survivors. Fauerbach JA, et al. **Psychosomatics** 1996 Nov–Dec;37(6):547–55

[Psychological aspects of severe burn injuries in childhood and adolescence] Landolt M. **Prax Kinderpsychol Kinderpsychiatr** 1996 Feb;45(2):47–56 (125 ref.) (Eng. Abstr.) **(Ger)**

REHABILITATION

Rehabilitative, psychiatric, functional and aesthetic problems in patients treated for burn injuries--a preliminary follow–up study. Jonsson CE, et al. **Acta Chir Plast** 1997; 39(1):3–8

The use of the edema bar for the treatment of burn patients. Rock K, et al. **Am J Occup Ther** 1996 May;50(5):386–8

Direct measurement of cutaneous pressures generated by pressure garments. Giele HP, et al. **Burns** 1997 Mar; 23(2):137–41

A valuable international bridge to the rehabilitation of burn patients with facial disfigurement [editorial] King WW. **Burns** 1997 Mar;23(2):v–vi

Return to employment after burn. Tanttula K, et al. **Burns** 1997 Jun;23(4):341–4

Degree of burn, location of burn, and length of hospital stay as predictors of psychosocial status and physical functioning. Baker RA, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):327–33

Managed health care: therapist responsibilities. Fletchall S, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):61–3

Biomechanical alterations in normal skin and hypertrophic scar after thermal injury. McHugh AA, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):104–8

Clinical nutrition protocols for continuous quality improvements in the outcomes of patients with burns. Mayes T, et al. **J Burn Care Rehabil** 1997 Jul–Aug; 18(4):365–8; discussion 364

Competence and physical impairment of pediatric survivors of burns of more than 80% total body surface area. Moore P, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):547–51

Energy and protein provisions for thermally injured children revisited: an outcome–based approach for determining requirements. Prelack K, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):177–81; discussion 176

To splint or not to splint--past philosophy and present practice: part III. Richard R, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):251–5; discussion 250

To splint or not to splint: past philosophy and current practice--Part II. Richard R, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):64–71

Return to work as a measure of outcome in adults hospitalized for acute burn treatment. Saffle JR, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):353–61

The effects of soft tissue mobilization on the immature burn scar: results of a pilot study. Silverberg R, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):252–9

Functional outcomes for the patient with burn injuries. Staley M, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):362–8 (38 ref.)

Head/face/neck burns: therapist considerations for the pediatric patient. Staley M, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):164–71

Critical pathways to enhance the rehabilitation of patients with burns Staley M, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 2):S12–4

Oxandrolone, an anabolic steroid, significantly increases the rate of weight gain in the recovery phase after major burns. Demling RH, et al. **J Trauma** 1997 Jul;43(1):47–51

Burn management. Psychosocial interventions: pharmacologic and psychologic modalities. Davis ST, et al. **Nurs Clin North Am** 1997 Jun;32(2):331–42 (56 ref.)

Burn management. Rehabilitation. Pessina MA, et al. **Nurs Clin North Am** 1997 Jun;32(2):365–74 (14 ref.)

Management of suffering in patients with severe burn injury. Patterson DR, et al. **West J Med** 1997 Apr;166(4):272–3

SURGERY

The primary treatment of severe burn hand by flap plastic. Bucek S. **Acta Chir Plast** 1995;37(3):83–8

Combined technique of anesthesia in early and late neck reconstruction. Jandová J, et al. **Acta Chir Plast** 1997; 39(2):56–9

Rehabilitative, psychiatric, functional and aesthetic problems in patients treated for burn injuries--a preliminary follow–up study. Jonsson CE, et al. **Acta Chir Plast** 1997; 39(1):3–8

Rationale for early tangential excision and grafting in burn patients. Kisslaogglu E, et al. **Acta Chir Plast** 1997; 39(1):9–12

Experience with the modified Meek technique. Raff T, et al. **Acta Chir Plast** 1996;38(4):142–6

Calvarial deformity and remodeling following prolonged scalp expansion in a child. Calobrace MB, et al. **Ann Plast Surg** 1997 Aug;39(2):186–9

Reconstruction of deep ulcer by free groin flap transfer [letter] Gunji H, et al. **Ann Plast Surg** 1997 Jan;38(1):86–7

Adipofascial flap harvest using endoscopic assistance. Hallock GG. **Ann Plast Surg** 1997 Jun;38(6):649–52

Spontaneous esophageal perforation in an acute burn patient. Haws MJ, et al. **Ann Plast Surg** 1996 Dec;37(6):641–4 (20 ref.)

Preexpanded radial forearm free flap to the scalp. Kobienia BJ, et al. **Ann Plast Surg** 1996 Dec;37(6):629–32

Favorable donor site for epidermal cultivation for the treatment of burn scars with autologous cultured epithelium. Kumagai N, et al. **Ann Plast Surg** 1997 May; 38(5):506–13

Aggressive use of free flaps in children for burn scar contractures and other soft–tissue deficits. Mast BA, et al. **Ann Plast Surg** 1996 Jun;36(6):569–75

An evaluation of excision with application of autografts or porcine xenografts within 24 hours of burn injury. Still JM, et al. **Ann Plast Surg** 1996 Feb;36(2):176–9

Cultured skin for massive burns. A prospective, controlled trial. Munster AM. **Ann Surg** 1996 Sep;224(3):372–5; discussion 375–7

Management of a boy with extensive burns and a partly closed tracheostomy. Cray S. **Br J Hosp Med** 1997 Mar 19–Apr 1;57(6):292

Absorbable skin graft staples: a clinical trial using Graftac–X. O'Broin ES, et al. **Br J Plast Surg** 1996 Oct;49(7):485–7

Randomized placebo–controlled trial of teicoplanin in the antibiotic prophylaxis of infection following manipulation of burn wounds. Steer JA, et al. **Br J Surg** 1997 Jun; 84(6):848–53

Tibialis anterior turnover flap coverage of exposed tibia in a severely burned patient. Chang J, et al. **Burns** 1997 Feb; 23(1):69–71

An investigation into the potential of extracellular matrix factors for attachment and proliferation of human keratinocytes on skin substitutes. Daniels JT, et al. **Burns** 1997 Feb;23(1):26–31

Controlled trial of Biocol versus Jelonet on donor sites. Ebbehoj J, et al. **Burns** 1996 Nov;22(7):557–9

Radial free flaps in plantar burns. Fernandez–Palacios J, et al. **Burns** 1996 May;22(3):242–5

Debridement of burn wounds with a surgical ultrasonic aspirator. King WW, et al. **Burns** 1996 Jun;22(4):307–9

Whither [corrected] skin replacement? [editorial] [published erratum appears in Burns 1997 Mar;23(2):195] Munster AM. **Burns** 1997 Feb;23(1):v

Histological characteristics of the healing process of frozen skin allograft used in the treatment of burns. Omi T, et al. **Burns** 1996 May;22(3):206–11

Skin replacement by cultured keratinocyte grafts: an Australian experience. Paddle–Ledinek JE, et al. **Burns** 1997 May;23(3):204–11

Free tissue transfer in the management of burns. Platt AJ, et al. **Burns** 1996 Sep;22(6):474–6

Silicone net and Hypafix as a dressing for skin grafts [letter] Platt AJ, et al. **Burns** 1996 Sep;22(6):505

Early burn wound excision in "major" burns with "pregnancy": a preliminary report. Prasanna M, et al. **Burns** 1996 May; 22(3):234–7

Regulation of marginal circumferential sutures for tie–over dressings by using an ointment around the graft area [letter; comment] Suliman MT. **Burns** 1996 Aug;22(5):424–5. Comment on: Burns 1995 Sep;21(6):478.

Is the psoriatic skin of burn patients suitable for split–thickness skin autograft? [letter] Wang T, et al. **Burns** 1997 May;23(3):272

Reconstruction of the eyelids and nose after a burn injury using a radial forearm flap. Watanabe T, et al. **Burns** 1997 Jun;23(4):360–5

Scar management of cultured epithelial autograft. Wood F, et al. **Burns** 1996 Sep;22(6):451–4

Skin harvesting on the scalp in children: utopia or reality. Gyger D, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):166–9

Hyaluronic acid impedes reepithelialization of skin graft donor sites. Bettinger DA, et al. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):302–4

Dermasorb versus Jelonet in patients with burns skin graft donor sites. Cadier MA, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):246–51

Primary closure of fasciotomy incisions with a skin–stretching device in patients with burn and trauma. Caruso DM, et al. **J Burn Care Rehabil** 1997 Mar–Apr; 18(2):125–32

Clinical trials of a biosynthetic temporary skin replacement, Dermagraft–Transitional Covering, compared with cryopreserved human cadaver skin for temporary coverage of excised burn wounds. Hansbrough JF, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):43–51

Psychologic factors involved in the decision to undergo reconstructive surgery after burn injury. Heinberg LJ, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):374–80

The use of a permanent dermal allograft in full–thickness burns of the hand and foot: a report of three cases. Lattari V, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):147–55

A conservative thermal injury treatment protocol for the appropriate Jehovah's Witness candidate. McGill V, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):133–8

Who chooses to undergo reconstructive surgery? Empirically confirming the subjectivity and social basis of body image. Pruzinsky T. **J Burn Care Rehabil** 1997 Jul–Aug; 18(4):372–4

A multicenter clinical trial of a biosynthetic skin replacement, Dermagraft–TC, compared with cryopreserved human cadaver skin for temporary coverage of excised burn

wounds. Purdue GF, et al. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 1):52-7

Unna's boot dressings facilitate outpatient skin grafting of hands. Sanford S, et al. **J Burn Care Rehabil** 1996 Jul-Aug; 17(4):323-6

Tunable dye laser neovessel ablation as an adjunct to the management of hypertrophic scarring in burned children: pilot trial to establish safety. Sheridan RL, et al. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):317-20

Permanent grafting of living skin substitutes: surgical parameters to control for successful results. Xu W, et al. **J Burn Care Rehabil** 1996 Jan-Feb;17(1):7-13

The distally based ulnar artery island flap in hand reconstruction. Grobbelaar AO, et al. **J Hand Surg [Br]** 1997 Apr;22(2):204-11

Anterior transposition of the posterior interosseous artery flap through the interosseous membrane. Gupta A, et al. **J Hand Surg [Br]** 1997 Feb;22(1):32-3

Infusion of hot crystalloid during operative burn wound debridement. Gore DC, et al. **J Trauma** 1997 Jun; 42(6):1112-5

Early but not late burn wound excision partially restores viral-specific T lymphocyte cytotoxicity. Hultman CS, et al. **J Trauma** 1997 Sep;43(3):441-7

Laser Doppler evaluation of burned hands predicts need for surgical grafting. Schiller WR, et al. **J Trauma** 1997 Jul; 43(1):35-9; discussion 39-40

Severe neck burns and laryngeal mask airway for frequent general anesthetics. Karam R, et al. **Middle East J Anesthesiol** 1996 Jun;13(5):527-35

Oesophageal ECG in a child for burns surgery. Reid M, et al. **Paediatr Anaesth** 1997;7(1):73-6

Anesthesia and pain management in pediatric burn patients. Beushausen T, et al. **Pediatr Surg Int** 1997 Jul; 12(5-6):327-33 (75 ref.)

Scar wars: implications of fetal wound healing for the pediatric burn patient. Cass DL, et al. **Pediatr Surg Int** 1997 Sep;12(7):484-9 (38 ref.)

Post-burn reconstruction during growth and development. Germann G, et al. **Pediatr Surg Int** 1997 Jul;12(5-6):321-6 (22 ref.)

Burns (Part 2). Tops and flops using cultured epithelial autografts in children. Meuli M, et al. **Pediatr Surg Int** 1997 Sep;12(7):471-7 (73 ref.)

Cultured epithelial autografts: diving from surgery into matrix biology. Raghunath M, et al. **Pediatr Surg Int** 1997 Sep;12(7):478-83 (52 ref.)

Total face reconstruction with one free flap. Angrigiani C, et al. **Plast Reconstr Surg** 1997 May;99(6):1566-75

The transverse platysma myocutaneous flap for head and neck reconstruction. Ariyan S. **Plast Reconstr Surg** 1997 Feb;99(2):340-7

Island fasciocutaneous flap based on the proximal perforators of the radial artery for resurfacing of burned cubital fossa. el-Khatib HA. **Plast Reconstr Surg** 1997 Sep;100(4):919-25

Combined use of allograft and autograft epidermal cultures in therapy of burns. Nuñez-Gutiérrez H, et al. **Plast Reconstr Surg** 1996 Nov;98(6):929-39; discussion 940-1

The fasciocutaneous supraclavicular artery island flap for releasing postburn mentosternal contractures. Pallua N, et al. **Plast Reconstr Surg** 1997 Jun;99(7):1878-84; discussion 1885-6

Proposal for a new comprehensive classification of V-Y plasty and its analogues: the pros and cons of inverted versus ordinary Burow's triangle excision. Suzuki S, et al. **Plast Reconstr Surg** 1996 Nov;98(6):1016-22

Intraoperative blood loss after tangential excision of burn wounds treated by subeschar infiltration of epinephrine. Janežič T, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):245-50

Efficacy of cultured epithelial autografts in pediatric burns and reconstructive surgery. Gobet R, et al. **Surgery** 1997 Jun;121(6):654-61

[Confirmation of the persistence of cultured allogeneic keratinocytes by DNA fingerprints] Zhao Y, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):202-4 (Eng. Abstr.) **(Chi)**

[Progresses in burn surgery in China, 1996] Sun Y. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):911-3 (0 ref.) **(Chi)**

[Value of cutaneous allografts in the treatment of severe burns] Schlotterer M. **Chirurgie** 1997;122(1):6-8; discussion 9 (30 ref.) (Eng. Abstr.) **(Fre)**

[Arteriovenous dysplasia of the hand. A case report and attempts at conservative therapy] Bahm J, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):39-42 (Eng. Abstr.) **(Ger)**

[Cultivated keratinocytes on micro-carriers: in vitro studies of a new carrier system] Hecht J, et al. **Handchir Mikrochir Plast Chir** 1997 Mar;29(2):101-6 (Eng. Abstr.) **(Ger)**

[Acute trauma to the external ear. Treatment of chemical burns, freezing, burns and acute avulsions of the external ear] Weerda H. **HNO** 1996 Dec;44(12):701-9 **(Ger)**

[Prognosis and treatment of burns in elderly patients] Büttemeyer R, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1139-42 (Eng. Abstr.) **(Ger)**

[Surgical prevention of post-traumatic infection by immediate necrectomy of burn wounds] Pallua N, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1144-8 (Eng. Abstr.) **(Ger)**

[Skin cultivation in treatment of severely burned patients] Spilker G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1149-55 (Eng. Abstr.) **(Ger)**

[Dry and moist wound treatment of burns] Krenzer-Scheidemantel G. **Zentralbl Chir** 1996;121 Suppl:92-4 **(Ger)**

[Total intravenous anesthesia in patients with postburn deformations of the face and neck] Beliakov VA, et al. **Anesteziol Reanimatol** 1996 Jul-Aug;(4):50-2 (Eng. Abstr.) **(Rus)**

[The results of the surgical treatment of extensive dermal burns in children] Grigor'ev AI, et al. **Vestn Khir Im I I Grek** 1996;(1):94 **(Rus)**

[Experimental and clinical validation of auto- and allodermoplasty using transverse dermal micrografts in deep burns] Izmailov GA, et al. **Vestn Khir Im I I Grek** 1996;155(5):56-8 (Eng. Abstr.) **(Rus)**

THERAPY

Ketamine anesthesia in children with acute burns and scalds. Maldini B. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1108-11

Prevention and therapy of postburn scars. Bláha J, et al. **Acta Chir Plast** 1997;39(1):17-21

Fluid replacement in burned patients. Bortolani A, et al. **Acta Chir Plast** 1996;38(4):132-6

Emergency care of severe burn children (an experience of Prague Burn Centre). Broz L, et al. **Acta Chir Plast** 1995; 37(3):89-93

Factors influencing survival and quality of life in burns. Königová R. **Acta Chir Plast** 1996;38(4):116-8

Fluid resuscitation in thermally injured pediatric patients. Marinov Z, et al. **Acta Chir Plast** 1997;39(1):28-32

Factors influencing the early prediction of outcome from burns. Raff T, et al. **Acta Chir Plast** 1996;38(4):122-7

The effects and uses of heparin in the care of burns that improves treatment and enhances the quality of life. Saliba MJ Jr. **Acta Chir Plast** 1997;39(1):13-6 (34 ref.)

The influence of progress in the treatment of severe burns on the quality of life. Teich Alasia S, et al. **Acta Chir Plast** 1996;38(4):119-21

Advances in burn care. Rose JK, et al. **Adv Surg** 1996; 30:71-95 (154 ref.)

First aid and transportation of burned patients during mass disasters. Hadjiiski O, et al. **Am J Emerg Med** 1996 Oct; 14(6):613-4

Elimination study of silver in a hemodialyzed burn patient treated with silver sulfadiazine cream. Iwasaki S, et al. **Am J Kidney Dis** 1997 Aug;30(2):287-90

A randomized prospective trial of hyperbaric oxygen in a referral burn center population. Brannen AL, et al. **Am Surg** 1997 Mar;63(3):205-8

Accidental massive extravascular infusion of fluids in a burned patient. Svartling N, et al. **Anaesth Intensive Care** 1996 Jun;24(3):394-6

Small-volume resuscitation using hypertonic saline improves organ perfusion in burned rats. Kien ND, et al. **Anesth Analg** 1996 Oct;83(4):782-8

Prevention of accidental extubation in burn patients. Achauer BM, et al. **Ann Plast Surg** 1997 Mar;38(3):280-2

Increased antioxidant capacity, suppression of free radical damage and erythrocyte aggrerability after combined application of alpha-tocopherol and FC-43 perfluorocarbon emulsion in early postburn period in rats. Bekyarova G, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):629-41

Water vapour transmission rates in burns and chronic leg ulcers: influence of wound dressings and comparison with in vitro evaluation. Wu P, et al. **Biomaterials** 1996 Jul; 17(14):1373-7

In vitro reconstructed skin models for wound coverage in deep burns. Berthod F, et al. **Br J Dermatol** 1997 Jun; 136(6):809-16 (71 ref.)

Treatment of burns and donor sites with human allogeneic keratinocytes grown on acellular pig dermis. Matoušková E, et al. **Br J Dermatol** 1997 Jun;136(6):901-7

Burns to the genitals and the perineum in children. Michielsen D, et al. **Br J Urol** 1996 Dec;78(6):940-1

Cytotoxicity of wound dressing materials assessed using cultured skin equivalents [letter; comment] Achterberg V. **Burns** 1996 Aug;22(5):424. Comment on: Burns 1995 Jun;21(4):249-54.

Fluid resuscitation following a burn injury: implications of a mathematical model of microvascular exchange. Bert J, et al. **Burns** 1997 Mar;23(2):93-105

Failure of therapeutic ultrasound in healing burn injuries. Cambier DC, et al. **Burns** 1997 May;23(3):248-9

Outcome studies for burn patients in Hong Kong: patients' satisfaction [published erratum appears in Burns 1997 Mar;23(2):195] Cheng S, et al. **Burns** 1996 Dec;22(8):623-6

Is there a need for antithrombin III substitution early after burn injury? Danielsson P, et al. **Burns** 1997 Jun;23(4):300-5

Hyperbaric oxygen therapy and piracetam decrease the early extension of deep partial-thickness burns. Germonpré P, et al. **Burns** 1996 Sep;22(6):468-73

Burns in prisoners: an assessment of problems in handling prisoners in a burns unit. Lee CT, et al. **Burns** 1996 Nov; 22(7):546-8 (5 ref.)

A comparative study of silicone net dressing and paraffin gauze dressing in skin-grafted sites. Platt AJ, et al. **Burns** 1996 Nov;22(7):543-5

Early intragastric feeding of seriously burned and long-term ventilated patients: a review of 55 patients. Raff T, et al. **Burns** 1997 Feb;23(1):19-25

Management of partial-thickness burn wounds by amniotic membrane: a cost-effective treatment in developing countries. Ramakrishnan KM, et al. **Burns** 1997 Mar;23 Suppl 1:S33-6

Advances in the treatment of burn patients. Rose JK, et al. **Burns** 1997 Mar;23 Suppl 1:S19-26 (29 ref.)

Combined thermal and crush injury to the hand and fingers. Sagi A, et al. **Burns** 1997 Mar;23(2):176-81

Autotransfusion techniques in burn surgery [letter] Samuelsson A, et al. **Burns** 1997 Mar;23(2):188-9

Is prolonged and excessive cooling of a scalded wound effective? Sawada Y, et al. **Burns** 1997 Feb;23(1):55-8

Use of patient-controlled analgesia with alfentanil for burns dressing procedures: a preliminary report of five patients. Sim KM, et al. **Burns** 1996 May;22(3):238-41

Treating mass burns in warfare, disaster or terrorist strikes. Sparkes BG. **Burns** 1997 May;23(3):238-47 (101 ref.)

Honey dressing versus boiled potato peel in the treatment of burns: a prospective randomized study. Subrahmanyam M. **Burns** 1996 Sep;22(6):491-3

Staples and gamgee for securing large-area burns dressings. Sylaidis P. **Burns** 1996 Sep;22(6):488-9

Urgent delivery, the treatment of choice in term pregnant women with extended burn injury. Ullmann Y, et al. **Burns** 1997 Mar;23(2):157-9

Seven-year experience with a 'quarantine and isolation unit' for patients with burns. A retrospective analysis. van Rijn RR, et al. **Burns** 1997 Jun;23(4):345-8

Major burns in pregnancy. Chang CJ, et al. **Chang Keng I Hsueh** 1996 Jun;19(2):154-9

Burn resuscitation: crystalloid versus colloid versus hypertonic saline hyperoncotic colloid in sheep. Guha SC, et al. **Crit Care Med** 1996 Nov;24(11):1849-57

Emergency department management of house fire burns and carbon monoxide poisoning in children. Walker AR. **Curr Opin Pediatr** 1996 Jun;8(3):239-42 (12 ref.)

Prehospital care of the burned patient. Crawford ME, et al. **Eur J Emerg Med** 1996 Dec;3(4):247-51 (28 ref.)

Why Johnny won't eat. Koretz RL. **Gastroenterology** 1996 Nov;111(5):1393-5

The importance of epidermal stem cells in keratinocyte-mediated gene therapy [editorial] De Luca M, et al. **Gene Ther** 1997 May;4(5):381-3

Female breast burns: conservative treatment with a reconstructive aim. Burvin R, et al. **Isr J Med Sci** 1996 Dec;32(12):1297-301

29th annual meeting of the American Burn Association. New York City, New York, March 19-22, 1997. Abstracts. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 3):S70-213

The truth about critical pathways in burn care. Proceedings of a workshop. Nashville, Tennessee, March 16, 1996. **J Burn Care Rehabil** 1996 Nov-Dec;17(6 Pt 2):S1-36

Pressure-controlled ventilation for the long-range aeromedical transport of patients with burns. Barillo DJ, et al. **J Burn Care Rehabil** 1997 May-Jun;18(3):200-5

Resuscitation of thermally injured patients with oxygen transport criteria as goals of therapy. Barton RG, et al. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 1):1-9

Proper use of nonadherent impregnated dressings [letter; comment] Britton SM. **J Burn Care Rehabil** 1996 Jan-Feb; 17(1):93-4. Comment on: J Burn Care Rehabil 1995 Jan-Feb;16(1):59-61. Comment on: J Burn Care Rehabil 1995 Mar-Apr;16(2 Pt 1):136-40.

Critical pathways in the QI process. Cornwell P. **J Burn Care Rehabil** 1996 Nov-Dec;17(6 Pt 2):S3-6

Early debridement of second-degree burn wounds enhances the rate of epithelization--an animal model to evaluate burn wound therapies. Davis SC, et al. **J Burn Care Rehabil** 1996 Nov-Dec;17(6 Pt 1):558-61

Clarification on the use of silver-based purification systems [letter; comment] Edlich RF. **J Burn Care Rehabil** 1996 May-Jun;17(3):285. Comment on: J Burn Care Rehabil 1995 May-Jun;16(3 Pt 1):280-3.

Determining when care for burns is futile. Fratianne RB, et al. **J Burn Care Rehabil** 1997 May-Jun;18(3):262-7; discussion 260-1

Improved survival of adults with extensive burns. Fratianne RB, et al. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):347-51

Assessment of cosmetic and functional results of conservative versus surgical management of facial burns. Fraulin FO, et al. **J Burn Care Rehabil** 1996 Jan-Feb;17(1):19-29

Distal-based flaps for reconstruction of hand burns. Hallock GG. **J Burn Care Rehabil** 1997 Jul-Aug;18(4):332-7

Dermagraft-TC for partial-thickness burns: a clinical evaluation. Hansbrough J. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 2):S25-8

Operational standards and regulations for tissue banks. Heck E. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 2):S11-2

Multiple piece use of Dermagraft-TC. Herndon DN. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 2):S14-5

Perspectives in the use of allograft. Herndon DN. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 2):S6

Wide variation in single, daily-dose aminoglycoside pharmacokinetics in patients with burn injuries. Hoey LL, et al. **J Burn Care Rehabil** 1997 Mar-Apr;18(2):116-24

Results of a hospital survey to determine the extent and type

of psychologic services offered to patients with severe burns. Holaday M, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):280–4

Superiority of oral ketamine as an analgesic and sedative for wound care procedures in the pediatric patient with burns. Humphries Y, et al. **J Burn Care Rehabil** 1997 Jan–Feb; 18(1 Pt 1):34–6

Development, implementation, and conclusions of critical pathways: walk don't run. Hunt J. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 2):S7–10; discussion S10–1

Critical pathways in clinical practice. Kealey GP, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 2):S6–7

Disease transmission by means of allograft. Kealey GP. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S10–1

The Euro Skin Bank: development and application of glycerol–preserved allografts. Mackie DP. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S7–9

Do custom–fitted pressure garments provide adequate pressure? Mann R, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):247–9

A new tool to measure pressure under burn garments. Mann R, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):160–3; discussion 159

Effects of an arginine–glycine–aspartic acid peptide–containing artificial matrix on epithelial migration in vitro and experimental second–degree burn wound healing in vivo. Mertz PM, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):199–206

A comparison of two different 2400 mOsm solutions for resuscitation of major burns. Milner SM, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):109–15

Estimating the economic cost offsets of using Dermagraft–TC as an alternative to cadaver allograft in the treatment of graftable burns. Parente ST. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S18–24

Insulin–like growth factor–I liposomal gene transfer and systemic growth hormone stimulate wound healing. Pierre EJ, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):287–91

The evolutionary development of biologic dressings and skin substitutes. Pruitt BA Jr. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S2–5

Dermagraft–TC pivotal efficacy and safety study. Purdue GF. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S13–4

To splint or not to splint––past philosophy and present practice: Part I. Richard R, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):444–53 (112 ref.)

Study of antibiotic prophylaxis during burn wound debridement in children. Rodgers GL, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):342–6

Allograft is superior to topical antimicrobial therapy in the treatment of partial–thickness scald burns in children. Rose JK, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):338–41

Hyperdynamic resuscitation improves survival in patients with life–threatening burns. Schiller WR, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):10–6

Ultrasonic imaging as an adjunct to femoral venous catheterization in children. Sheridan RL, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):156–8

Once–daily wound cleansing and dressing change: efficacy and cost. Sheridan RL, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):139–40

Anesthesia and thermal injury [letter; comment] Sjöberg F, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):285–6. Comment on: J Burn Care Rehabil 1994 May–Jun;15(3):224–31.

Emergency room management of minor burn injuries: a quality management evaluation. Smith S, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):76–80

Modified use of extremity tourniquets for burn wound debridement. Smoot EC 3rd. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):334–7

A histological study of Dermagraft–TC in patients' burn wounds. Spielvogel RL. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S16–8

Clinical pathways as an education tool. Yurko L, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 2):S2–3

Adjustable first webspace splint. Haelterman JC. **J Hand Ther** 1996 Jul–Sep;9(3):249

Femoral venous access is safe in burned children: an analysis of 224 catheters. Goldstein AM, et al. **J Pediatr** 1997 Mar; 130(3):442–6

Interleukin–11 improves survival and reduces bacterial translocation and bone marrow suppression in burned mice. Schindel D, et al. **J Pediatr Surg** 1997 Feb;32(2):312–5

Combined insulin–like growth factor–1 and growth hormone improves weight loss and wound healing in burned rats. Meyer NA, et al. **J Trauma** 1996 Dec;41(6):1008–12

Randomized trial of immune–enhancing enteral nutrition in burn patients. Saffle JR, et al. **J Trauma** 1997 May; 42(5):793–800; discussion 800–2

Physiologic hypoalbuminemia is well tolerated by severely burned children. Sheridan RL, et al. **J Trauma** 1997 Sep; 43(3):448–52

Method of obtaining and preparation of fresh human amniotic membrane for clinical use. Ganatra MA, et al. **JPMA J Pak Med Assoc** 1996 Jun;46(6):126–8

Initial management of burns [see comments] Monafo WW. **N Engl J Med** 1996 Nov 21;335(21):1581–6 (50 ref.). Comment in: N Engl J Med 1997 May 8;336(19):1392–3; discussion 1393. Comment in: N Engl J Med 1997 May 8;336(19):1393.

Treatment of burns [letter; comment] Schimmer M. **N Engl J Med** 1997 May 8;336(19):1392–3; discussion 1393 . Comment on: N Engl J Med 1996 Nov 21;335(21):1581–6.

A bolt from the blue: lightning strike to the head. Cherington M, et al. **Neurology** 1997 Mar;48(3):683–6

Hemodynamic and oxygen transport monitoring in management of burns. Schiller WR, et al. **New Horiz** 1996 Nov;4(4):475–82

Management of the pediatric burn patient. Cortiella J, et al. **Nurs Clin North Am** 1997 Jun;32(2):311–29 (33 ref.)

Burn management. Initial assessment, management, and stabilization. Gordon M, et al. **Nurs Clin North Am** 1997 Jun;32(2):237–49 (7 ref.)

Management of the burn wound. Jordan BS, et al. **Nurs Clin North Am** 1997 Jun;32(2):251–73 (69 ref.)

Outpatient burn management. Mertens DM, et al. **Nurs Clin North Am** 1997 Jun;32(2):343–64 (40 ref.)

State–of–the–art burn treatment. Laws J. **Occup Health Saf** 1996 Apr;65(4):62, 64

Prompt diagnosis, treatment critical in workplace burn emergency response. Scully T, et al. **Occup Health Saf** 1994 Mar;63(3):80–1

Burn management in children. Schiller WR. **Pediatr Ann** 1996 Aug;25(8):431, 434–8; quiz 439

The cornerstones and directions of pediatric burn care. Wolf SE, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):312–20 (63 ref.)

The effect of hyperbaric oxygen therapy on a burn wound model in human volunteers. Niezgoda JA, et al. **Plast Reconstr Surg** 1997 May;99(6):1620–5

Paediatric burns in a rural South African district hospital. Chopra M, et al. **S Afr Med J** 1997 May;87(5):600–3

Update on current therapeutic approaches in burns. Shirani KZ, et al. **Shock** 1996 Jan;5(1):4–16 (136 ref.)

Traditional medicine and the infrastructure for burn care in Vietnam. Trung LT, et al. **Trop Doct** 1997;27 Suppl 1:39–42

Are closed dressing of burns in children effective? Hess A, et al. **West Afr J Med** 1996 Apr–Jun;15(2):117–22

[Changes of circulating Lps and cytokines in burned patients after anti–endotoxin therapy] Fu W, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):355–8 (Eng. Abstr.) **(Chi)**

[Fire–eaters, a breath–taking act?] Steenkist CM, et al. **Ned Tijdschr Geneeskd** 1997 May 3;141(18):865–8 (Eng. Abstr.) **(Dut)**

[Is albumin administration useful in critical care for burnt patients?] Manelli JC. **Ann Fr Anesth Reanim** 1996; 15(4):507–13 (66 ref.) (Eng. Abstr.) **(Fre)**

[Role of albumins in burnt patients: its efficacy during intensive care. Addendum to the expert guidelines of the Consensus Conference, Paris December 15th 1995] Sanchez R. **Ann Fr Anesth Reanim** 1996;15(7):1124–9 (Eng. Abstr.) **(Fre)**

[Intranasal administration of midazolam (Dormicum) in young children in emergency medicine] Goepfert A, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Feb; 31(1):26–8 (Eng. Abstr.) **(Ger)**

[Intrabronchial surfactant administration in inhalation trauma of severely burned patients with ARDS. Initial case reports] Pallua N, et al. **Unfallchirurg** 1997 May; 100(5):363–70 (Eng. Abstr.) **(Ger)**

[Enzymatic cleaning with collagenase in the local treatment of skin lesions complicated by scab and necrotic debris] Pietrantoni P, et al. **Minerva Chir** 1996 Sep;51(9):751–4 (Eng. Abstr.) **(Ita)**

[Use of human anti–Pseudomonas immunoglobulins in treatment of children with burns] Bukowska D, et al. **Pol Tyg Lek** 1996 Jun;51(23–26):331–3 (Eng. Abstr.) **(Pol)**

[The use of xenospleen for body detoxification and immunocorrection in thermal injury] Boiarinov GA, et al. **Anesteziol Reanimatol** 1996 May–Jun;(3):70–1 **(Rus)**

[Acoustic estimation of skin graft in children with postburn contractures] Fedorova VN, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):478–80 **(Rus)**

[Treatment of deep burns with human fetal tissues] Smirnov SV, et al. **Biull Eksp Biol Med** 1994 Apr;117(4):405–7 **(Rus)**

[Cryotherapy using liquid nitrogen in patients with burns during the prehospital stage] Ivakin AE, et al. **Klin Khir** 1996;(5):33–4 **(Rus)**

[Effects of allogeneic anti–Bacillus pyocyaneus and anti–Proteus plasma humoral and cellular immunity in patients with severe burns] Nazarchuk LV. **Klin Khir** 1996; (5):29–31 **(Rus)**

[Cytological study of wounds using detoxication and nondrug immunomodulation in patients with severe burns] Slesarenko SV, et al. **Klin Khir** 1996;(5):23–7 **(Rus)**

[Effects of enterosorption on the morphofunctional state of the hypothalamo–neurohypophyseal system in severe burns] Volkov KS. **Klin Khir** 1996;(5):31–3 **(Rus)**

[Monitoring in the system of specialized medical care management (exemplified by the study of burns––specialized care for burn victims)] Kucherenko VZ, et al. **Probl Sotsialnoi Gig Istor Med** 1994 Sep–Oct;(5):30–6 (Eng. Abstr.) **(Rus)**

[Effects of a synthetic carbon–mineral sorbent and antibiotics on the development of combined radiation and thermal injury] Nesterenko VS, et al. **Radiats Biol Radioecol** 1996 Sep–Oct;36(5):727–30 (Eng. Abstr.) **(Rus)**

[Intraportal infusions in the treatment of severely burned patients] Atiasov NI, et al. **Vestn Khir Im I I Grek** 1996; (1):79–82 (Eng. Abstr.) **(Rus)**

[Our approach to the treatment of burns] Dizdarević S, et al. **Med Arh** 1996;50(1–2):27–9 (Eng. Abstr.) **(Scr)**

[Decrease of the incidence of sepsis syndrome after early enteral nutrition of patients with severe burns] Pereira JL, et al. **Nutr Hosp** 1996 Sep–Oct;11(5):274–8 (Eng. Abstr.) **(Spa)**

[The stabilizing effect of enterosgel on the structural bases of membrane digestion and absorption in the small intestine in severe thermal skin burns] Pasechka NV. **Fiziol Zh** 1996; 42(5–6):94–100 (Eng. Abstr.) **(Ukr)**

[Effectiveness of enterosorption as a detoxication method in the treatment of burns] Pasechka NV. **Klin Khir** 1996; (5):34–5 **(Ukr)**

[Stabilizing effect of enterosorption on the intestinal morphology in burns during the toxemia stage] Pasechka NV. **Klin Khir** 1996;(5):27–9 **(Ukr)**

URINE

Endothelin–1 kinetics in plasma, urine, and blister fluid in burn patients. Wakisaka N, et al. **Ann Plast Surg** 1996 Sep; 37(3):305–9

VIROLOGY

Growth hormone improves immune function and survival in burned mice infected with herpes simplex virus type 1. Takagi K, et al. **J Surg Res** 1997 Apr;69(1):166–70

BURNS, CHEMICAL

Facial mutilation after an assault with chemicals: 15 cases and literature review. Yeong EK, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):234–7 (13 ref.)

Esophageal replacement in children who have caustic pharyngoesophageal strictures. Choi RS, et al. **J Pediatr Surg** 1997 Jul;32(7):1083–7; discussion 1087–8

[Esophageal injury due to pill ingestion] Corsi PR, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):360–4 (Eng. Abstr.) **(Por)**

COMPLICATIONS

Three cases of contact allergy after chemical burns from methylchloroisothiazolinone/methylisothiazolinone: one with concomitant allergy to methyldibromoglutaronitrile/phenoxyethanol. Primka EJ 3rd, et al. **Am J Contact Dermat** 1997 Mar;8(1):43–6

Esophageal motor abnormalities after lye ingestion [letter; comment] Guelrud M. **Am J Gastroenterol** 1996 Nov; 91(11):2450. Comment on: Am J Gastroenterol 1996 Jun;91(6):1157–61.

Preventing symblepharon formation with a gelatin sponge in the eye of a patient with an alkali burn. Yamada M, et al. **Am J Ophthalmol** 1997 Apr;123(4):552–4

Squamous cell carcinoma of the scalp following a chemical burn and chronic discoid lupus erythematosus [letter] Onayemi O, et al. **Br J Dermatol** 1996 Aug;135(2):342–3

Acute pulmonary oedema following administration of vasopressin for control of massive GI tract haemorrhage in a major burn patient. Lin TW, et al. **Burns** 1996 Feb; 22(1):73–5

Surgical management of corrosive strictures following acid burns of upper gastrointestinal tract. Gupta S. **Eur J Cardiothorac Surg** 1996;10(11):934–40

Recurrent ventricular tachyarrhythmias associated with QT prolongation following hydrofluoric acid burns. Yamaura K, et al. **J Toxicol Clin Toxicol** 1997;35(3):311–3

DIAGNOSIS

[Severity of ingestion of caustic substance in children] Lamireau T, et al. **Arch Pediatr** 1997 Jun;4(6):529–34 (Eng. Abstr.) **(Fre)**

[Fluorescence angiography of the anterior eye segment in severe eye chemical burns] Kuckelkorn R, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep;209(2–3):109–13 (Eng. Abstr.) **(Ger)**

[Chemical burns of the esophagus and stomach––role of endoscopic examination] Nieżychowski W. **Pol Tyg Lek** 1996 Apr;51(14–18):239–41 (22 ref.) **(Pol)**

DRUG THERAPY

Effects of prednisolone and dexamethasone in children with alkali burns of the oesophagus. Bautista A, et al. **Eur J Pediatr Surg** 1996 Aug;6(4):198–203

Effects of calmodulin antagonists and anesthetics on the skin lesions induced by 2–chloroethylethyl sulfide. Kim YB, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):107–14

The efficacy of calcium gluconate in ocular hydrofluoric acid burns. Beiran I, et al. **Hum Exp Toxicol** 1997 Apr; 16(4):223–8

Effect of topically applied Na–hyaluronan on experimental corneal alkali wound healing. Chung JH, et al. **Korean J Ophthalmol** 1996 Dec;10(2):68–75

Combined non–steroidal therapy in experimental corneal injury. Laria C, et al. **Ophthalmic Res** 1997;29(3):145–53

[Modeling of cutaneous radio–contamination: effects of washings by soap and by solutions of DTPA] Gerasimo P, et al. **Ann Pharm Fr** 1997;55(3):116–24 (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Histochemical study of leukocyte elastase activity in alkali–burned rabbit cornea. Cejková J. **Ophthalmic Res**

BURNS, CHEMICAL

1997;29(3):154–60

EPIDEMIOLOGY

The kerosene tragedy of 1994, an unusual epidemic of burns: epidemiological aspects and management of patients. Gupta M, et al. **Burns** 1996 Feb;22(1):3–9

Suicide attempted by burning in Brazil. Marchesan WG, et al. **Burns** 1997 May;23(3):270–1

A retrospective analysis of ingestion of caustic substances by children. Ten-year statistics in Galicia. Bautista Casasnovas A, et al. **Eur J Pediatr** 1997 May;156(5):410–4 (30 ref.)

ETIOLOGY

Oesophageal burn caused by sucking a 1.5 volt battery. Untersweg U, et al. **Acta Paediatr** 1996 Nov;85(11):1382–3

WD-40 and arthritic pain: the squeaky joint gets the grease [letter] Ramratham B, et al. **Am Fam Physician** 1997 Apr; 55(5):1584

Caustic instillation into the ear as a form of child abuse [letter] Kini N, et al. **Am J Emerg Med** 1997 Jul;15(4):442–3

Hair relaxers: lack of morbidity despite high pH [letter] Mrvos R, et al. **Am J Emerg Med** 1997 Mar;15(2):216

Garlic burns of the breast [letter] Roberge RJ, et al. **Am J Emerg Med** 1997 Sep;15(5):548

Fatality due to acute fluoride poisoning following dermal contact with hydrofluoric acid in a palynology laboratory. Muriale L, et al. **Ann Occup Hyg** 1996 Dec;40(6):705–10

Mechanisms of burn injury secondary to airbag deployment. Hallock GG. **Ann Plast Surg** 1997 Aug;39(2):111–3

Corneal sensitivity debate [letter; comment] Villain M, et al. **Arch Ophthalmol** 1997 May;115(5):686. Comment on: Arch Ophthalmol 1996 Aug;114(8):921–4.

An investigation into the effect of ischaemia and pressure on irritant inflammation. Parslew R, et al. **Br J Dermatol** 1997 May;136(5):734–6

An unusual corneal injury [letter] Newsom RS, et al. **Br J Ophthalmol** 1996 Dec;80(12):1112–3

Phenolic household disinfectants--further precautions required. DeBono R, et al. **Burns** 1997 Mar;23(2):182–5

Burns following petrol sniffing. Janežič TF. **Burns** 1997 Feb; 23(1):78–80 (18 ref.)

Full-thickness burn and venous thrombosis following intravenous infusion of microwave-heated crystalloid fluids. Sieunarine K, et al. **Burns** 1996 Nov;22(7):568–9

Sparklers as a major hazard for burn injury. Singh S. **Burns** 1997 Jun;23(4):369–72

Chemical burns following irritant contact with povidone-iodine. Corazza M, et al. **Contact Dermatitis** 1997 Feb;36(2):115–6

Chemical burn from acetic acid with deep ulceration. Kuniyuki S, et al. **Contact Dermatitis** 1997 Mar; 36(3):169–70

Hydrofluoric acid burns. Asvesti C, et al. **Cutis** 1997 Jun; 59(6):306–8

Acute effects of the potent lacrimator o-chlorobenzylidene malononitrile (CS) tear gas. Anderson PJ, et al. **Hum Exp Toxicol** 1996 Jun;15(6):461–5

Ocular injury with xylene--a report of two cases. Ansari EA. **Hum Exp Toxicol** 1997 May;16(5):273–5

Personal defense sprays: effects and management of exposure. Lee RJ, et al. **J Am Optom Assoc** 1996 Sep;67(9):548–60

Ingestion of caustic hair relaxer: is endoscopy necessary? Cox AJ 3rd, et al. **Laryngoscope** 1997 Jul;107(7):897–902

Two case reports of delayed skin burns from methylisothiazolines used in water treatment. Ng CK, et al. **Singapore Med J** 1996 Dec;37(6):577–8

Giant millipede 'burns' and the eye. Hudson BJ, et al. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr;91(2):183–5

[Lesions of the tracheobronchial tree after the aspiration of a tablet of ferrous sulfate] Hernández Martínez J, et al. **Arch Bronconeumol** 1997 Jan;33(1):50–1 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Appearance of immune cells and expression of MHC II DQ molecule by fibroblasts in alkali-burned corneas. Kao WW, et al. **Cornea** 1996 Jul;15(4):397–408

METABOLISM

Transcutaneous metal absorption following chemical burn injury. Neligan PC. **Burns** 1996 May;22(3):232–3

Stromal fibroblasts are associated with collagen IV in scar tissues of alkali-burned and lacerated corneas. Ishizaki M, et al. **Curr Eye Res** 1997 Apr;16(4):339–48

Cytokine expression in the alkali-burned cornea. Sotozono C, et al. **Curr Eye Res** 1997 Jul;16(7):670–6

Alkali burn-induced synthesis of inflammatory eicosanoids in rabbit corneal epithelium. Conners MS, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):1963–71

Collagen types in healing alkali-burned corneal stroma in rabbits. Saika S, et al. **Jpn J Ophthalmol** 1996;40(3):303–9

Trauma and alkali burns induce distinct patterns of cytokine gene expression in the rat cornea. Planck SR, et al. **Ocul Immunol Inflamm** 1997 Jun;5(2):95–100

PATHOLOGY

Chemical burns of the oral mucosa: report of a case. Isenberg SR, et al. **J Can Dent Assoc** 1996 Mar;62(3):262–4

[Clinical aspects of injury to the eye inflicted with gas pistols for self-defense] Gundorova RA, et al. **Vestn Oftalmol** 1996 Sep–Oct;112(4):10–12 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Thermal effects of neutralization therapy and water dilution for acute alkali exposure in canines. Homan CS, et al. **Acad Emerg Med** 1997 Jan;4(1):27–32

Motor function of the esophagus after caustic burn. Bautista A, et al. **Eur J Pediatr Surg** 1996 Aug;6(4):204–7

Acute ammonia inhalation [letter] Darchy B, et al. **Intensive Care Med** 1997 May;23(5):597–8

Sympathetic stimulation of corneal epithelial proliferation in wounded and nonwounded rat eyes. Jones MA, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2535–47

Chemical injuries of the eye: current concepts in pathophysiology and therapy. Wagoner MD. **Surv Ophthalmol** 1997 Jan–Feb;41(4):275–313 (428 ref.)

SURGERY

Autologous transplantation of nasal mucosa after severe chemical and thermal eye burns. Kuckelkorn R, et al. **Acta Ophthalmol Scand** 1996 Oct;74(5):442–8

Dermal hydrofluoric acid burns resulting in death. Gubbay AD, et al. **Aust N Z J Surg** 1997 May;67(5):304–6

L-shaped scalp flap for moustache reconstruction in a patient with an acid burn of the face. Kumar P. **Burns** 1996 Aug; 22(5):413–6 (4 ref.)

A case of brain abscess as complication of esophageal dilation for caustic stenosis. Appignani A, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):42–3

Esophageal replacement in children: evaluation of the one-stage procedure with colic transplants. Reinberg O, et al. **Eur J Pediatr Surg** 1997 Aug;7(4):216–20

Early operation for severe corrosive injury of the upper gastrointestinal tract. Berthet B, et al. **Eur J Surg** 1996 Dec;162(12):951–5

Surgical results of corrosive injuries involving esophagus to jejunum. Wu MH, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):846–50

Conjunctival transplantation for corneal surface reconstruction--case reports and review of literature. Sanghvi A, et al. **Indian J Ophthalmol** 1996 Mar;44(1):33–8 (17 ref.)

The use of skin from a monozygotic twin combined with cultured epithelial autografts as coverage for a large surface area burn: a case report and review of the literature. Caruso DM, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):432–4 (18 ref.)

Acute cholecystectomy performed through cultured epithelial autografts in a patient with burn injuries: a case report. Still J, et al. **J Burn Care Rehabil** 1996 Sep–Oct; 17(5):429–31

Treatment of acid burns of the stomach by gastroplasty. Sidhu BS. **J Indian Med Assoc** 1996 Apr;94(4):163

Caustic injury of the oesophagus. Sixteen years experience, and introduction of a new model oesophageal stent. Berkovits RN, et al. **J Laryngol Otol** 1996 Nov; 110(11):1041–5

Esophageal conduit in nearly hopeless corrosive esophageal stricture patient. Laohapensang K, et al. **J Med Assoc Thai** 1997 Aug;80(8):534–9

Long-term restoration of damaged corneal surfaces with autologous cultivated corneal epithelium [see comments] Pellegrini G, et al. **Lancet** 1997 Apr 5;349(9057):990–3. Comment in: Lancet 1997 May 24;349(9064):1556.

Tenonplasty: a new surgical approach for the treatment of severe eye burns. Kuckelkorn R, et al. **Ophthalmic Surg Lasers** 1997 Feb;28(2):105–10

Acid ingestion in a 2-day old baby. Kushimo T, et al. **West Afr J Med** 1997 May–Jun;16(2):121–3

[Acute trauma to the external ear. Treatment of chemical burns, freezing, burns and acute avulsions of the external ear] Weerda H. **HNO** 1996 Dec;44(12):701–9 **(Ger)**

[Expert assessment of initial surgical management after experimental chemical eye burn] Becker J, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep;209(2–3):138–43 (Eng. Abstr.) **(Ger)**

[Autologous early transplantation of nasal mucosa after the most severe eye chemical burns] Wenkel H, et al. **Ophthalmologe** 1997 Feb;94(2):104–8 (Eng. Abstr.) **(Ger)**

[Esophageal stenosis and esophagotracheal fistula with concomitant gastric ulcer in "caustic soda" ingestion] Sabău D, et al. **Chirurgia (Bucur)** 1996 May–Jun;45(3):133–7 (Eng. Abstr.) **(Rum)**

[A chemical burn of the esophagus, gastric stump and jejunum] Volobuev NN, et al. **Vestn Khir Im I I Grek** 1996; 155(2):44–5 **(Rus)**

THERAPY

Caustic soda burns to the extremities: difficulties in management. O'Donoghue JM, et al. **Br J Clin Pract** 1996 Mar;50(2):108–10

The kerosene tragedy of 1994, an unusual epidemic of burns: epidemiological aspects and management of patients. Gupta M, et al. **Burns** 1996 Feb;22(1):3–9

The use of calcium alginate dressings in deep hand burns. Kneafsey B, et al. **Burns** 1996 Feb;22(1):40–3

Bioactive substance accumulation and septic complications in a burn trauma patient: effect of perioperative blood transfusion? Nielsen HJ, et al. **Burns** 1997 Feb;23(1):59–63

Esophageal perforation and caustic injury: emergency management of caustic ingestion. Andreoni B, et al. **Dis Esophagus** 1997 Apr;10(2):95–100

Gastroesophageal reflux: a determinant in the outcome of caustic esophageal burns. Mutaf O, et al. **J Pediatr Surg** 1996 Nov;31(11):1494–5

Treatment of corrosive esophageal strictures by long-term stenting. Mutaf O. **J Pediatr Surg** 1996 May;31(5):681–5

Burn management. Nonthermal injuries. Winfree J, et al. **Nurs Clin North Am** 1997 Jun;32(2):275–96 (59 ref.)

Treating chemical eye injuries. Blais BR. **Occup Health Saf** 1996 Sep;65(9):23–6

The treatment of hydrofluoric acid burns. Matsuno K. **Occup Med (Oxf)** 1996 Aug;46(4):313–7

A simple ocular irrigation system for alkaline burns of the eye. Terzidou C, et al. **Ophthalmic Surg Lasers** 1997 Mar; 28(3):255–7

Chemical injuries of the eye: current concepts in pathophysiology and therapy. Wagoner MD. **Surv Ophthalmol** 1997 Jan–Feb;41(4):275–313 (428 ref.)

[Chemical burn caused by hydrofluoric acid in Kaohsiung area--a 5-year experience] Ho CK, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jun; 13(6):400–6 (Eng. Abstr.) **(Chi)**

[Treatment of chemical burns of the esophagus in children] Isakov IF, et al. **Khirurgiia (Mosk)** 1996;(4):4–8 (Eng. Abstr.) **(Rus)**

[Evaluation of various methods of treatment in chemical burns of the stomach using fiber endoscopy] Volkov SV, et al. **Klin Med (Mosk)** 1996;74(3):46–8 (Eng. Abstr.) **(Rus)**

[Successful treatment of recurrent esophageal stricture. Steroids and dilatation resulted in permanent cure] Toth E, et al. **Lakartidningen** 1997 Aug 6;94(32–33):2751–3 **(Swe)**

[Bougienage of the esophagus in the combined conservative treatment of burn stricture] Pavliuk AD. **Klin Khir** 1995; (3):22–4 **(Ukr)**

[A method for elastic bougienage of postburn esophageal stricture and for enteral feeding of the patient] Zaĭtsev VT, et al. **Klin Khir** 1995;(3):45 **(Ukr)**

BURNS, ELECTRIC

COMPLICATIONS

Neurological sequelae following a high voltage electrical burn. Ratnayake B, et al. **Burns** 1996 Nov;22(7):574–7 (23 ref.)

Laryngeal fistula following electrical burn. Sharma RK, et al. **Burns** 1997 May;23(3):265–7

Long thoracic nerve injury due to an electric burn. Still JM, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):562–4 (7 ref.)

DIAGNOSIS

Artifact from an electrosurgical ground pad. Revercomb CH, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):293–4

EPIDEMIOLOGY

[Electrical burns in children. 3 years of case histories] Caneira E, et al. **Acta Med Port** 1996 Oct–Dec;9(10–12):325–30 (Eng. Abstr.) **(Por)**

ETIOLOGY

Nature and determinants of skin "burns" after transthoracic cardioversion. Pagan-Carlo LA, et al. **Am J Cardiol** 1997 Mar 1;79(5):689–91

Burns caused by ECG monitoring during MRI imaging [letter] Keens SJ, et al. **Anaesthesia** 1996 Dec;51(12):1188–9

Mechanisms of pediatric electrical injury. New implications for product safety and injury prevention. Rabban JT, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):696–700

Complications in the use of diathermy. Aigner N, et al. **Burns** 1997 May;23(3):256–64 (25 ref.)

An unusual case of lightning strike: full-thickness burns of the cranial bones. Celiköz B, et al. **Burns** 1996 Aug; 22(5):417–9

Burns associated with electrocardiographic monitoring during magnetic resonance imaging. Jones S, et al. **Burns** 1996 Aug;22(5):420–1

Electrical injury on removal of implantable defibrillator after death. Ghosh D, et al. **Heart** 1997 May;77(5):484–5

Genital tract burns during rollerball endometrial coagulation. Vilos GA, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb; 4(2):273–6

Port site electrosurgical (diathermy) burns during surgical laparoscopy. Willson PD, et al. **Surg Endosc** 1997 Jun; 11(6):653–4

[Burns risk caused by the interaction of NIR at radiofrequency and metal structures at a building site] Valoti E, et al. **G Ital Med Lav Ergon** 1996 Jan–May; 18(1–3):57–61 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Pattern of burn injury in hang-glider pilots. Campbell DC, et al. **Burns** 1996 Jun;22(4):328–30

[What is your diagnosis? Electric burn] Sigrist T. **Schweiz Rundsch Med Prax** 1997 Jul 2;86(27–28):1095–6 **(Ger)**

PSYCHOLOGY

Neurologic and neurobehavioral effects of electric and lightning injuries. Janus TJ, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):409–15

RADIONUCLIDE IMAGING

Residual myocardial damage following electrical injuries. Matsumura H, et al. **J Burn Care Rehabil** 1997 Jul–Aug; 18(4):299–305

SURGERY

Post–transferred tissue expansion of a musculocutaneous free flap for debulking and further reconstruction. Fan J. **Ann Plast Surg** 1997 May;38(5):523–6

Reverse first dorsal metatarsal artery adipofascial flap [see comments] Senyuva C, et al. **Ann Plast Surg** 1996 Feb; 36(2):158–61. Comment in: Ann Plast Surg 1996 Oct;37(4):453–4.

Four limb amputations due to electrical burn caused by TV antenna contact with overhead electric cables. Celiköz B, et al. **Burns** 1997 Feb;23(1):81–4 (17 ref.)

An unusual case of lightning strike: full–thickness burns of the cranial bones. Celiköz B, et al. **Burns** 1996 Aug; 22(5):417–9

Distally based dorsalis pedis island flap for a distal lateral electric burn of the big toe. Governa M, et al. **Burns** 1996 Dec;22(8):641–3

Elevated compartmental pressures after closure of a forearm burn wound with a skin–stretching device. Hussmann J, et al. **Burns** 1997 Mar;23(2):154–6

Electrical burns to the oral commissure: does splinting obviate the need for commissuroplasty? al–Qattan MM, et al. **Burns** 1996 Nov;22(7):555–6

Long thoracic nerve injury due to an electric burn. Still JM, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):562–4 (7 ref.)

First web space reconstruction by a free flap from the contralateral paralysed hand. Adani R, et al. **Microsurgery** 1995;16(12):827–9

The fatal fight for upper limb preservation in severe electrical burns. Bahm J. **Microsurgery** 1996;17(5):286–9

[Clinical application of the bilobed flap with first volardorsal artery in repair of the hand] Zhang Z, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):222–4 (Eng. Abstr.) **(Chi)**

THERAPY

Electrical injuries from graphite fishing rods. Chi L, et al. **Burns** 1996 Dec;22(8):638–40

Industrial high–voltage electrical burn of the skull, a preventable injury. Wright HR, et al. **J Emerg Med** 1997 May–Jun;15(3):345–9

Burn management. Nonthermal injuries. Winfree J, et al. **Nurs Clin North Am** 1997 Jun;32(2):275–96 (59 ref.)

[Electric burns: epidemiological and therapeutic aspects] Dubien PY, et al. **Presse Med** 1996 Nov 23;25(36):1781–5 (Eng. Abstr.) **(Fre)**

BURNS, INHALATION

[Bronchoscopy in inhalation burns] Strekalovskii VP, et al. **Khirurgiia (Mosk)** 1997;(1):9–12 (Eng. Abstr.) **(Rus)**

BLOOD

Evolution and significance of circulating procalcitonin levels compared with IL–6, TNF alpha and endotoxin levels early after thermal injury. Carsin H, et al. **Burns** 1997 May; 23(3):218–24

COMPLICATIONS

Complications following butane inhalation and flash fire. Huston BM, et al. **Am J Forensic Med Pathol** 1997 Jun; 18(2):140–3

Acute airway obstruction following facial scalding: differential diagnosis between a thermal and infective cause. Watts AM, et al. **Burns** 1996 Nov;22(7):570–3

Pharmacodynamics of mivacurium in severely burned patients. Werba AE, et al. **Burns** 1996 Feb;22(1):62–4

Inhaled nitric oxide in burn patients with respiratory failure. Sheridan RL, et al. **J Trauma** 1997 Apr;42(4):629–34

DIAGNOSIS

Tracheobronchial cytology in inhalation injury. Khoo AK, et al. **J Trauma** 1997 Jan;42(1):81–5

Treatment of burns [letter; comment] Martín Bermúdez R, et al. **N Engl J Med** 1997 May 8;336(19):1393. Comment on: N Engl J Med 1996 Nov 21;335(21):1581–6.

DRUG THERAPY

[Systemic steroids are not suitable in toxic pneumonia (letter)] Nettelblad H, et al. **Lakartidningen** 1997 Mar 5;94(10):811–2 **(Swe)**

ETIOLOGY

Burns and inhalation injury caused by steam. Balakrishnan C, et al. **Burns** 1996 Jun;22(4):313–5

Burns with inhalation injury and petrol aspiration in adolescents seeking euphoria through hydrocarbon inhalation. Sheridan RL. **Burns** 1996 Nov;22(7):566–7 (18 ref.)

Formic acid inhalation injury: a case report. Yelon JA, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):241–2

Thermal epiglottitis in adults: a new complication of illicit drug use. Mayo–Smith MF, et al. **J Emerg Med** 1997 Jul–Aug;15(4):483–5

Mucosal injuries of the upper aerodigestive tract after smoking crack or freebase cocaine. Meleca RJ, et al. **Laryngoscope** 1997 May;107(5):620–5

MORTALITY

Inhalation injury severity scoring system: a quantitative method. Brown DL, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):552–7

[The characteristics of inhalation injury and pulmonary infection in burn patients and the influence on their mortality] Chai J, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):193–6 (Eng. Abstr.) **(Chi)**

PATHOLOGY

Inhalation injury severity scoring system: a quantitative method. Brown DL, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):552–7

Tracheobronchial cytology in inhalation injury. Khoo AK, et al. **J Trauma** 1997 Jan;42(1):81–5

PHYSIOPATHOLOGY

Acute ammonia inhalation [letter] Darchy B, et al. **Intensive Care Med** 1997 May;23(5):597–8

SURGERY

Pneumostatic effect of gelatin–resorcinol formaldehyde–glutaraldehyde glue on thermal injury of the lung: an experimental study on rats. Kodama K, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):333–7

THERAPY

Inhalation injury treated with extracorporeal CO2 elimination. Kornberger E, et al. **Burns** 1997 Jun; 23(4):354–9

Surgical emphysema, pneumomediastinum and bilateral pneumothoraces complicating endotracheal intubation in a burns patient [letter] Kumar P, et al. **Burns** 1996 Nov; 22(7):579–80

Burns with inhalation injury and petrol aspiration in adolescents seeking euphoria through hydrocarbon inhalation. Sheridan RL. **Burns** 1996 Nov;22(7):566–7 (18 ref.)

Urgent delivery, the treatment of choice in term pregnant women with extended burn injury. Ullmann Y, et al. **Burns** 1997 Mar;23(2):157–9

Stabilization of endotracheal tubes in children [letter; comment] Punjabi AP, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):285. Comment on: J Burn Care Rehabil 1995 Jul–Aug;16(4):437–9.

[Ventilation effects of added jet air flows in different directions during expiratory phase on dogs with steam inhalation injury] Zhou S, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):212–5 (Eng. Abstr.) **(Chi)**

[Fire–eaters, a breath–taking act?] Steenkist CM, et al. **Ned Tijdschr Geneeskd** 1997 May 3;141(18):865–8 (Eng. Abstr.) **(Dut)**

[Intrabronchial surfactant administration in inhalation trauma of severely burned patients with ARDS. Initial case reports] Pallua N, et al. **Unfallchirurg** 1997 May; 100(5):363–70 (Eng. Abstr.) **(Ger)**

BURSA–DEPENDENT LYMPHOCYTES see **B–LYMPHOCYTES**

BURSA OF FABRICIUS

The bursa of Hieronymus Fabrici d'Acquapendente: past and present of an anatomical structure. Antonello A, et al. **Am J Nephrol** 1997;17(3–4):248–51

CYTOLOGY

Distribution of bursal secretory dendritic cells in the chicken. Gallego M, et al. **Anat Rec** 1996 Nov;246(3):372–6

DRUG EFFECTS

Effects of feed antibiotic avoparcine on organ morphology in broiler chickens. Krinke AL, et al. **Poult Sci** 1996 Jun; 75(6):705–10

GROWTH & DEVELOPMENT

Spectrin localizations in the chicken bursa of Fabricius at different stages of development. Moriya O. **Acta Histochem** 1996 Jan;98(1):1–7

Age–related changes in the medullary reticular epithelial cells of the pigeon bursa of Fabricius. Sanchez–Refusta F, et al. **Anat Rec** 1996 Dec;246(4):473–80

Trk–like proteins during the post–hatching growth of the avian bursa of Fabricius. Ciriaco E, et al. **Vet Immunol Immunopathol** 1997 Mar;55(4):313–20

IMMUNOLOGY

Apoptotic cell death in the chicken bursa of Fabricius. Jacobsen KA, et al. **Adv Exp Med Biol** 1996;406:155–65 (22 ref.)

Pancreas of Aselli in some species of the shrews (Sorex araneusneomys fodiens) as an analogue of the bursa of Fabricius in birds. Tsiperson VP. **Cell Biol Int** 1997 Jun; 21(6):359–65

Evidence for phenotypic heterogeneity among B cells emigrating from the bursa of fabricius: a reflection of functional diversity? Paramithiotis E, et al. **Curr Top Microbiol Immunol** 1996;212:29–36 (12 ref.)

Postrearrangement diversification processes in gut–associated lymphoid tissues. Reynaud CA, et al. **Curr Top Microbiol Immunol** 1996;212:7–15 (28 ref.)

A bursal stromal derived cytokine induces proliferation of MHC class II bearing cells. Obranovich TD, et al. **Dev Comp Immunol** 1996 Jan–Feb;20(1):61–75

An immunohistochemical analysis of T–cell subsets in the chicken bursa of Fabricius during postnatal stages of development. Khan MZ, et al. **J Vet Med Sci** 1996 Dec; 58(12):1231–4

METABOLISM

Spectrin localizations in the chicken bursa of Fabricius at different stages of development. Moriya O. **Acta Histochem** 1996 Jan;98(1):1–7

B cells in the bursa of Fabricius express a novel C–type lectin gene. Goitsuka R, et al. **J Immunol** 1997 Oct 1; 159(7):3126–32

Localization of Trk neurotrophin receptor–like proteins in avian primary lymphoid organs (thymus and bursa of Fabricius). Ciriaco E, et al. **J Neuroimmunol** 1996 Sep; 69(1–2):73–83

Muscarinic cholinergic receptor subtypes in the pigeon bursa of Fabricius: a radioligand binding and autoradiographic study. Ricci A, et al. **J Neuroimmunol** 1996 May; 66(1–2):23–8

The effect of age and sex on the expression of prolactin binding activity in the chicken bursa of Fabricius. Di Carlo R, et al. **Life Sci** 1996;59(21):1803–8

Trk–like proteins during the post–hatching growth of the avian bursa of Fabricius. Ciriaco E, et al. **Vet Immunol Immunopathol** 1997 Mar;55(4):313–20

PATHOLOGY

Experimental ochratoxicosis A in chickens. Histopathological and histochemical study. Kozaczyński W. **Arch Vet Pol** 1994;34(3–4):205–19

Proliferation and apoptosis in infection with infectious bursal disease virus: a flow cytometric study. Ojeda F, et al. **Avian Dis** 1997 Apr–Jun;41(2):312–6

PHYSIOLOGY

A role for bursa fabricii and bursin in the ontogeny of the pineal biosynthetic activity in the chicken. Youbicier–Simo BJ, et al. **J Pineal Res** 1996 Aug;21(1):35–43

RADIATION EFFECTS

Apoptosis in the chicken bursa of fabricius induced by X–irradiation. Arai S, et al. **J Vet Med Sci** 1996 Oct; 58(10):1001–6

ULTRASTRUCTURE

Age–related changes in the medullary reticular epithelial cells of the pigeon bursa of Fabricius. Sanchez–Refusta F, et al. **Anat Rec** 1996 Dec;246(4):473–80

VIROLOGY

Detection of infectious bursal disease viruses in commercially reared chickens using the reverse transcriptase/polymerase chain reaction–restriction endonuclease assay. Jackwood DJ, et al. **Avian Dis** 1997 Jan–Mar;41(1):137–43

BURSA, SYNOVIAL

Morton neuroma and fluid in the intermetatarsal bursae on MR images of 70 asymptomatic volunteers. Zanetti M, et al. **Radiology** 1997 May;203(2):516–20

Imaging of bursae around the shoulder joint. Bureau NJ, et al. **Skeletal Radiol** 1996 Aug;25(6):513–7 (16 ref.)

ANATOMY & HISTOLOGY

The fibular collateral ligament–biceps femoris bursa. An anatomic study. LaPrade RF, et al. **Am J Sports Med** 1997 Jul–Aug;25(4):439–43

INNERVATION

Sensory nerve supply in the human subacromial bursa. Ide K, et al. **J Shoulder Elbow Surg** 1996 Sep–Oct;5(5):371–82

PATHOLOGY

Lipoma arborescens with osteochondral metaplasia--a case mimicking synovial osteochondromatosis in a lateral knee bursa. Kurihashi A, et al. **Acta Orthop Scand** 1997 Jun; 68(3):304–6

The lateral synovial recess of the knee: anatomy and role in chronic Iliotibial band friction syndrome. Nemeth WC,

et al. **Arthroscopy** 1996 Oct;12(5):574–80

Iliopsoas bursa enlargement [letter; comment] Jones PB. **Br J Rheumatol** 1997 Jan;36(1):149. Comment on: Br J Rheumatol 1996 Mar;35(3):285–8.

Pterygoid hamulus bursitis: one cause of craniofacial pain [letter; comment] Dias G. **J Prosthet Dent** 1997 Jul; 78(1):111–2. Comment on: J Prosthet Dent 1996 Feb;75(2):205–10.

RADIOGRAPHY

Bursal osteochondromatosis overlying an osteochondroma of a rib. A case report. Wright JM, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1085–8

SURGERY

Fibrosis in the subacromial bursa and outcome after acromioplasty. Kronberg M, et al. **Ann Chir Gynaecol** 1997; 86(1):45–9

Endoscopy of the deep infrapatellar bursa. Klein W. **Arthroscopy** 1996 Feb;12(1):127–31

[Arthroscopic resection of bursitis changes in the pre–patellar bursae––preliminary report] Witoński D. **Chir Narzadow Ruchu Ortop Pol** 1997;62(1):63–5 (Eng. Abstr.) **(Pol)**

BURSINE see **CHOLINE**

BURSITIS

Sports–related and other soft–tissue injuries, tendinitis, bursitis, and occupation–related syndromes [see comments] Biundo JJ Jr, et al. **Curr Opin Rheumatol** 1997 Mar; 9(2):151–4 (20 ref.). Comment in: Curr Opin Rheumatol 1997 Mar;9(2):133–43.

A profile of patients with adhesive capsulitis. Boyle–Walker KL, et al. **J Hand Ther** 1997 Jul–Sep;10(3):222–8

Anserine bursitis: a brief review. Handy JR. **South Med J** 1997 Apr;90(4):376–7 (11 ref.)

CHEMICALLY INDUCED

Can flunarizine induce frozen shoulder? [letter] Franck JL, et al. **Rev Rhum Engl Ed** 1996 Jun;63(6):457

COMPLICATIONS

Shoulder capsulitis in type I and II diabetic patients: association with diabetic complications and related diseases. Arkkila PE, et al. **Ann Rheum Dis** 1996 Dec;55(12):907–14

Pterygoid hamulus bursitis: one cause of craniofacial pain [letter; comment] Dias G. **J Prosthet Dent** 1997 Jul; 78(1):111–2. Comment on: J Prosthet Dent 1996 Feb;75(2):205–10.

DIAGNOSIS

Sports medicine. Pain in the Achilles region. Brukner P. **Aust Fam Physician** 1997 Apr;26(4):463–5

Bursitis of the iliopsoas: four cases with pain as the only clinical indicator [see comments] Fortin L, et al. **J Rheumatol** 1995 Oct;22(10):1971–3. Comment in: J Rheumatol 1996 Oct;23(10):1828.

Which diagnostic criteria for bursitis of the iliopsoas? [letter; comment] Goupille P, et al. **J Rheumatol** 1996 Oct; 23(10):1828. Comment on: J Rheumatol 1995 Oct;22(10):1971–3.

Diagnosis of trochanteric bursitis versus femoral neck stress fracture. Jones DL, et al. **Phys Ther** 1997 Jan;77(1):58–67

Tuberculous tenosynovitis and bursitis: imaging findings in 21 cases. Jaovisidha S, et al. **Radiology** 1996 Nov; 201(2):507–13

Imaging of bursae around the shoulder joint. Bureau NJ, et al. **Skeletal Radiol** 1996 Aug;25(6):513–7 (16 ref.)

The US,CT and MR findings of cubital bursitis: a report of five cases. Liessi G, et al. **Skeletal Radiol** 1996 Jul; 25(5):471–5

[Bursitis of the iliopsoas bursa] Lanitis G, et al. **Rev Med Suisse Romande** 1997 Apr;117(4):349–51 **(Fre)**

[The diagnosis and treatment of anserine and trochanteric bursitis] Grigor'eva VD, et al. **Ter Arkh** 1997;69(5):61–3 **(Rus)**

DRUG THERAPY

Evaluation of glucocorticosteroid injection for the treatment of trochanteric bursitis. Shbeeb MI, et al. **J Rheumatol** 1996 Dec;23(12):2104–6

Shoulder injections for subacromial bursitis [letter] Bert J. **Minn Med** 1996 Sep;79(9):6

ETIOLOGY

Olecranon bursitis in patients with chronic obstructive pulmonary disease [letter; comment] Zimmermann B 3rd, et al. **Am J Med** 1996 Sep;101(3):327. Comment on: Am J Med 1996 Apr;100(4):479–80.

Proximal bursitis in active polymyalgia rheumatica. Salvarani C, et al. **Ann Intern Med** 1997 Jul 1;127(1):27–31

Frozen shoulder: unravelling the enigma. Bunker TD. **Ann R Coll Surg Engl** 1997 May;79(3):210–3 (22 ref.)

Septic and non–septic olecranon bursitis in the accident and emergency department––an approach to management. Stell IM. **J Accid Emerg Med** 1996 Sep;13(5):351–3

Complicated soft tissue infection with prepatellar bursitis caused by Paecilomyces lilacinus in an immunocompetent host: case report and review. Westenfeld F, et al. **J Clin Microbiol** 1996 Jun;34(6):1559–62 (29 ref.)

Ileopectineal bursitis: orthopaedic cause for a lump in the groin [see comments] Emery D, et al. **J R Soc Med** 1997 Mar;90(3):158–9. Comment in: J R Soc Med 1997 Jun;90(6):359.

Iliopectineal bursitis [letter; comment] Murphy SB. **J R Soc Med** 1997 Jun;90(6):359. Comment on: J R Soc Med 1997 Mar;90(3):158–9.

Prepatellar bursitis: a unique presentation of tophaceous gout in an normouricemic patient. Dawn B, et al. **J Rheumatol** 1997 May;24(5):976–8

Multiple bursitis in systemic sclerosis. Ishikawa O, et al. **J Rheumatol** 1997 Jun;24(6):1189–90

"Bursal reactions" in rotator cuff tearing, the impingement syndrome, and calcifying tendinitis. Ishii H, et al. **J Shoulder Elbow Surg** 1997 Mar–Apr;6(2):131–6

Rapid development of subscapular exostosis bursata. Jacobi CA, et al. **J Shoulder Elbow Surg** 1997 Mar–Apr;6(2):164–6

METABOLISM

Immunolocalization of cytokines and their receptors in adhesive capsulitis of the shoulder. Rodeo SA, et al. **J Orthop Res** 1997 May;15(3):427–36

MICROBIOLOGY

Septic prepatellar bursitis caused by Stenotrophomonas (Xanthomonas) maltophilia. Papadakis KA, et al. **Clin Infect Dis** 1996 Feb;22(2):388–9

Prepatellar bursitis caused by Brucella abortus [letter] Davis JM, et al. **Med J Aust** 1996 Oct 21;165(8):460

Musculoskeletal infections in patients with human immunodeficiency virus infection. Vassilopoulos D, et al. **Medicine (Baltimore)** 1997 Jul;76(4):284–94 (129 ref.)

PATHOLOGY

Iliopsoas bursa enlargement [letter; comment] Jones PB. **Br J Rheumatol** 1997 Jan;36(1):149. Comment on: Br J Rheumatol 1996 Mar;35(3):285–8.

REHABILITATION

[Long–term therapeutic effect of different intra–articular injection treatments of the painful shoulder––effect on pain, mobility and work capacity] Ströbel G. **Rehabilitation (Stuttg)** 1996 Aug;35(3):176–8 (Eng. Abstr.) **(Ger)**

SURGERY

Surgical management of refractory trochanteric bursitis. Slawski DP, et al. **Am J Sports Med** 1997 Jan–Feb; 25(1):86–9

Fibrosis in the subacromial bursa and outcome after acromioplasty. Kronberg M, et al. **Ann Chir Gynaecol** 1997; 86(1):45–9

Pathomechanics and operative management of chronic frozen shoulder. Ozaki J. **Ann Chir Gynaecol** 1996;85(2):156–8

The reverse lateral arm adipofascial flap for elbow coverage. Lai CS, et al. **Ann Plast Surg** 1997 Aug;39(2):196–200

Endoscopy of the deep infrapatellar bursa. Klein W. **Arthroscopy** 1996 Feb;12(1):127–31

The diabetic frozen shoulder: arthroscopic release. Ogilvie–Harris DJ, et al. **Arthroscopy** 1997 Feb;13(1):1–8

Arthroscopic release for chronic, refractory adhesive capsulitis of the shoulder. Warner JJ, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1808–16

Surgical treatment of aseptic olecranon bursitis. Stewart NJ, et al. **J Shoulder Elbow Surg** 1997 Jan–Feb;6(1):49–54

[Arthroscopic resection of bursitis changes in the pre–patellar bursae––preliminary report] Witoński D. **Chir Narzadow Ruchu Ortop Pol** 1997;62(1):63–5 (Eng. Abstr.) **(Pol)**

THERAPY

Septic and non–septic olecranon bursitis in the accident and emergency department––an approach to management. Stell IM. **J Accid Emerg Med** 1996 Sep;13(5):351–3

Glenohumeral gliding manipulation following interscalene brachial plexus block in patients with adhesive capsulitis. Roubal PJ, et al. **J Orthop Sports Phys Ther** 1996 Aug; 24(2):66–77

Thawing the frozen shoulder: the "patient" patient. Miller MD, et al. **Orthopedics** 1996 Oct;19(10):849–53

[The treatment of bursitis of the olecranon at a polyclinic] Tomashuk IP. **Klin Khir** 1994;(12):60–1 **(Rus)**

[The local therapy of enthesitis and bursitis of the calcaneal area in seronegative spondylarthritis] Gadzhinova LD, et al. **Ter Arkh** 1997;69(5):47–9 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

MRI appearances of rice bodies in the subacromial/subdeltoid bursa [letter; comment] Harrison S, et al. **Clin Radiol** 1997 Feb;52(2):162. Comment on: Clin Radiol 1996 Jul;51(7):511–4.

VETERINARY

Intra–articular anesthesia of the distal interphalangeal joint alleviates lameness associated with the navicular bursa in horses. Pleasant RS, et al. **Vet Surg** 1997 Mar–Apr; 26(2):137–40

BURST–FORMING UNITS, ERYTHROID see **ERYTHROID PROGENITOR CELLS**

BURST–PROMOTING FACTOR, ERYTHROCYTE see **INTERLEUKIN–3**

BUSERELIN

Antifertility effects of an LHRH agonist in male mice. Kher R, et al. **Contraception** 1996 May;53(5):299–306

ADMINISTRATION & DOSAGE

Effects of oral buserelin on urinary LH secretion in male infants. Bassol S, et al. **Contraception** 1997 May;55(5):311–4

Long gonadotrophin releasing hormone agonist/human menopausal gonadotrophin protocol for ovarian stimulation in intrauterine insemination treatment. Nuojua–Huttunen S, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jul; 74(1):83–7

Intranasal nafarelin versus buserelin (short protocol) for controlled ovarian hyperstimulation before in vitro fertilization: a prospective clinical trial. Avrech OM, et al. **Gynecol Endocrinol** 1996 Jun;10(3):165–70

Cyclic and individualized administration of gonadotropin–releasing hormone agonists plus progestogens: an alternative protocol for contraception. Chryssikopoulos A, et al. **Gynecol Endocrinol** 1997 Apr; 11(2):119–26

Prospective randomized study of an ultrashort gonadotrophin–releasing hormone agonist versus a modified suppression protocol for ovarian stimulation in intracytoplasmic sperm injection cycles. Strohmer H, et al. **Hum Reprod** 1997 Jul;12(7):1403–8

Ovulation by repeated human chorionic gonadotrophin in 'empty follicle syndrome' yields a twin clinical pregnancy. Ubaldi F, et al. **Hum Reprod** 1997 Mar;12(3):454–6

ADVERSE EFFECTS

Leiomyomatosis peritonealis disseminata (LPD) with acute ascites induced by gonadotropin–releasing hormone (GnRH) agonist: a case report. Tseng CW, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):352–7

Effects of oral buserelin on urinary LH secretion in male infants. Bassol S, et al. **Contraception** 1997 May;55(5):311–4

ANALOGS & DERIVATIVES

S– and C–glycopeptide derivatives of an LH–RH agonist. Michael K, et al. **Int J Pept Protein Res** 1996 Jul; 48(1):59–70

CHEMISTRY

S– and C–glycopeptide derivatives of an LH–RH agonist. Michael K, et al. **Int J Pept Protein Res** 1996 Jul; 48(1):59–70

DIAGNOSTIC USE

Ovarian function in women with non–insulin dependent diabetes mellitus. Stamataki KE, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):615–21

Ovarian reserve test with the gonadotrophin–releasing hormone agonist buserelin: correlation with in–vitro fertilization outcome. Galtier–Dereure F, et al. **Hum Reprod** 1996 Jul;11(7):1393–8

Value of buserelin testing in the evaluation of hirsute women. Ambrosi B, et al. **J Endocrinol Invest** 1996 Apr;19(4):204–9

METABOLISM

Spectroscopic characterization of the inclusion complex of a luteinizing hormone–releasing hormone agonist, buserelin acetate, with dimethyl–beta–cyclodextrin. Matsubara K, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):378–83

PHARMACOKINETICS

Disposition of 3H–labelled buserelin continuously infused into rats. Heinrich N, et al. **Eur J Drug Metab Pharmacokinet** 1996 Oct–Dec; 21(4):345–50

In vivo buccal delivery of the peptide drug buserelin with glycodeoxycholate as an absorption enhancer in pigs. Hoogstraate AJ, et al. **Pharm Res** 1996 Aug;13(8):1233–7

Mucoadhesive polymers in peroral peptide drug delivery. VI. Carbomer and chitosan improve the intestinal absorption of the peptide drug buserelin in vivo. Luessen HL, et al. **Pharm Res** 1996 Nov;13(11):1668–72

PHARMACOLOGY

Suppression in the secretion of follicle–stimulating hormone and luteinizing hormone, and ovarian follicle development in heifers continuously infused with a gonadotropin–releasing hormone agonist. Gong JG, et al. **Biol Reprod** 1996 Jul;55(1):68–74

Prostate specific antigen in boys with precocious puberty before and during gonadal suppression by GnRH agonist treatment. Juul A, et al. **Eur J Endocrinol** 1997 Apr; 136(4):401–5

Lack of relationship between 17–hydroxyprogesterone response to buserelin testing and hyperinsulinemia in

polycystic ovary syndrome. Sahin Y, et al. **Eur J Endocrinol** 1997 Apr;136(4):410–5

The impact of GnRH agonist and menotropin therapy on lipoprotein metabolism. Goldman GA, et al. **Gynecol Endocrinol** 1996 Jun;10(3):159–64

Potentiating effect of buserelin acetate, an LHRH agonist, on the proliferation of ventral prostatic epithelial cells in testosterone-treated castrated rats. Maezawa H, et al. **Int J Urol** 1997 Jul;4(4):411–6

A cellular and endocrine characterization of the original and induced corpus luteum after administration of a gonadotropin-releasing hormone agonist or human chorionic gonadotropin on day five of the estrous cycle. Schmitt EJ, et al. **J Anim Sci** 1996 Aug;74(8):1915–29

Evaluation of timed insemination using a gonadotropin-releasing hormone agonist in lactating dairy cows. Burke JM, et al. **J Dairy Sci** 1996 Aug;79(8):1385–93

The adjuvant effect of oxytocin on GnRH analogue buserelin. Heberal A, et al. **JPMA J Pak Med Assoc** 1996 Jun;46(6):134–5

Effects of a GnRH analogue on human smooth muscle cells cultured from normal myometrial and from uterine leiomyomal tissues. Kobayashi Y, et al. **Mol Hum Reprod** 1997 Feb;3(2):91–9

Testosterone release in intact male dogs following the injection of a GnRH analogue. Munro EA, et al. **Vet Rec** 1996 Jul 27;139(4):96

[Effects of gonadotropin-releasing hormone and its analogue (buserelin) on aromatase in cultured human granulosa cells] Maeda K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb;48(2):89–95 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Pulmonary metastases in metastatic prostate cancer: host tissue-tumor cell interactions and response to hormone therapy. Behrakis P, et al. **Anticancer Res** 1997 May-Jun; 17(3A):1517–8

Long-term follow-up of endometriosis after two different therapies (Gestrinone and Buserelin). Nieto A, et al. **Clin Exp Obstet Gynecol** 1996;23(4):198–204

Serum FSH levels in women with polycystic ovary syndrome during ovulation induction using down-regulation and urofollitropin. Fridström M, et al. **Eur J Endocrinol** 1997 May;136(5):488–92

Gonadotropin-releasing hormone agonist therapy induces apoptosis in uterine leiomyoma. Higashijima T, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1–2):169–73

Long-term follow-up on the treatment of endometriosis with the GnRH-agonist buserelinacetate. Long-term follow-up data (up to 98 months) of 42 patients with endometriosis who were treated with GnRH-agonist buserelinacetate (Suprecur), were evaluated in respect of recurrence of pain symptoms and pregnancy outcome. Regidor PA, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun;73(2):153–60

Involvement of annexin V in antiproliferative effects of gonadotropin-releasing hormone agonists on human endometrial cancer cell line. Shibata S, et al. **Gynecol Oncol** 1997 Aug;66(2):217–21

Long-term evaluation of implantation of fresh and cryopreserved human embryos following ovarian stimulation with buserelin acetate-human menopausal gonadotrophin (HMG) or clomiphene citrate-HMG. Van der Elst J, et al. **Hum Reprod** 1996 Oct;11(10):2097–106

Influence of serum follicle stimulating hormone to luteinizing hormone ratio during buserelin acetate-induced pituitary desensitization on ovarian response to exogenous gonadotrophins in an in-vitro fertilization and embryo transfer programme. Yamashita T, et al. **Hum Reprod** 1996 Aug;11(8):1615–9

Treatment variables in relation to oocyte maturation: lessons from a clinical micromanipulation-assisted in vitro fertilization program. Avrech OM, et al. **J Assist Reprod Genet** 1997 Jul;14(6):337–42

The initial flare-up induced by gonadotropin releasing hormone agonist may serve as a predictor of ovarian response in the current IVF-ET treatment cycle in normogonadotropic women aged 40–48 years. Avrech OM, et al. **J Assist Reprod Genet** 1996 May;13(5):395–400

Treatment with a luteinizing hormone-releasing hormone analogue after successful orchiopexy markedly improves the chance of fertility later in life. Hadžiselimović F, et al. **J Urol** 1997 Sep;158(3 Pt 2):1193–5

The effect of Buserelin versus conventional antiandrogenic treatment in patients with T2-4NXM1 prostatic cancer. A prospective, randomized multicentre phase III trial. The "Danish Buserelin Study Group". Bruun E, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):291–7

[Current aspects in the therapy of prostatic cancer] **Urologe A** 1996 Jan;35(1 Suppl Aktuelle):1–12 **(Ger)**

BUSH BABIES see **GALAGO**

BUSHMASTER see **VIPERIDAE**

BUSINESS see **COMMERCE**

BUSINESS COALITIONS (HEALTH CARE) see **HEALTH CARE COALITIONS**

BUSPIRONE

ADMINISTRATION & DOSAGE

Efficacy and safety of two dosing regimens of buspirone in the treatment of outpatients with persistent anxiety. Sramek JJ, et al. **Clin Ther** 1997 May-Jun;19(3):498–506

Buspirone augmentation of selective serotonin reuptake inhibitors (SSRIs) in social phobia. Van Ameringen M, et al. **J Affect Disord** 1996 Jul 8;39(2):115–21

ADVERSE EFFECTS

Lethal interaction of clozapine and buspirone? [letter] Good MI. **Am J Psychiatry** 1997 Oct;154(10):1472–3

Are 5-HT1A receptors involved in the control of reflex bradycardia induced by intracoronary injection of contrast medium in humans? Hatab SA, et al. **Braz J Med Biol Res** 1996 Jun;29(6):769–72

Combined serotonin syndrome and hyponatraemia caused by a citalopram–buspirone interaction. Spigset O, et al. **Int Clin Psychopharmacol** 1997 Jan;12(1):61–3

ANALOGS & DERIVATIVES

Simultaneous quantitation of buspirone and its major metabolite 1-(2-pyrimidinyl)piperazine in human plasma by high-performance liquid chromatography with coulometric detection. Odontiadis J, et al. **J Pharm Biomed Anal** 1996 Jan;14(3):347–51

Buspirone analogues as ligands of the 5-HT1A receptor. II: Capacity factors as chromatographic parameter of lipophilicity evaluation in a series of 5-HT1A and 5-HT2A receptor ligands. Chilmonczyk Z, et al. **Pharmazie** 1996 Dec;51(12):924–7

ANALYSIS

Measurement and pharmacokinetic analysis of buspirone by means of brain microdialysis coupled to high-performance liquid chromatography with electrochemical detection. Tsai TH, et al. **J Chromatogr A** 1997 Feb 21; 762(1–2):269–73

BLOOD

Simultaneous quantitation of buspirone and its major metabolite 1-(2-pyrimidinyl)piperazine in human plasma by high-performance liquid chromatography with coulometric detection. Odontiadis J, et al. **J Pharm Biomed Anal** 1996 Jan;14(3):347–51

CHEMISTRY

Conformational flexibility of serotonin1A receptor ligands from crystallographic data. Updated model of the receptor pharmacophore. Chilmonczyk Z, et al. **Arch Pharm (Weinheim)** 1997 May;330(5):146–60

PHARMACOKINETICS

Lack of pharmacokinetic interaction between buspirone and haloperidol in patients with schizophrenia. Huang HF, et al. **J Clin Pharmacol** 1996 Oct;36(10):963–9

PHARMACOLOGY

Buspirone as an inhibitor of voluntary ethanol intake in male rats. Hedlund L, et al. **Alcohol Alcohol** 1996 Mar; 31(2):149–56

Effects of maternal ethanol consumption and buspirone treatment on dopamine and norepinephrine reuptake sites and D1 receptors in offspring. Gillespie RA, et al. **Alcohol Clin Exp Res** 1997 May;21(3):452–9

Differential effects of haloperidol and two anxiolytic drugs, buspirone and lesopitron, on c-Fos expression in the rat striatum and nucleus accumbens. Palacios G, et al. **Brain Res** 1996 Dec 2;742(1–2):141–8

Protective effects of maternal buspirone treatment on serotonin reuptake sites in ethanol-exposed offspring. Kim JA, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):190–8

(–)-Pindolol, but not buspirone, potentiates the citalopram-induced rise in extracellular 5-hydroxytryptamine. Hjorth S. **Eur J Pharmacol** 1996 May 15;303(3):183–6

Acute participant-rated and behavioral effects of alprazolam and buspirone, alone and in combination with ethanol, in normal volunteers. Rush CR, et al. **Exp Clin Psychopharmacol** 1997 Feb;5(1):28–38

Influence of diazepam and buspirone on human heart rate and the evoked cardiac response under varying cognitive load. Unrug A, et al. **Int J Psychophysiol** 1997 Feb; 25(2):177–84

Increased prolactin response to buspirone in chronic fatigue syndrome. Sharpe M, et al. **J Affect Disord** 1996 Nov 4; 41(1):71–6

Buspirone enhances duloxetine- and fluoxetine-induced increases in dialysate levels of dopamine and noradrenaline, but not serotonin, in the frontal cortex of freely moving rats. Gobert A, et al. **J Neurochem** 1997 Mar;68(3):1326–9

Effects of buspirone on dopaminergic supersensitivity. Queiroz CM, et al. **Life Sci** 1997;61(4):371–82

Effects of buspirone on operant and nonoperant food intake in food deprived rats. Ebenezer IS. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):475–80

Different effects of the serotonergic agonists buspirone and sumatriptan on the posterior pituitary hormonal responses to hypoglycemia in humans. Chiodera P, et al. **Neuropeptides** 1996 Apr;30(2):187–92

Anxiolytics by ethanol, diazepam and buspirone in a novel murine behavioral assay. Seale TW, et al. **Neuroreport** 1996 Jul 29;7(11):1803–8

Behavioural effects in mice of subchronic buspirone, ondansetron and tianeptine. I. Social interactions. Cutler MG, et al. **Pharmacol Biochem Behav** 1997 Feb; 56(2):287–93

Buspirone enhances immobility in the forced swim test in mice. Kitamura Y, et al. **Pharmacol Biochem Behav** 1996 Nov;55(3):445–51

Pre- or postsynaptic activity of 5-HT1A compounds in mice depends on the anxiety paradigm. López-Rubalcava C. **Pharmacol Biochem Behav** 1996 Aug;54(4):677–86

Behavioural effects in mice of subchronic buspirone, ondansetron and tianeptine. II. The elevated plus-maze. Rodgers RJ, et al. **Pharmacol Biochem Behav** 1997 Feb; 56(2):295–303

Buspirone analogues as ligands of the 5-HT1A receptor. II: Capacity factors as chromatographic parameter of lipophilicity evaluation in a series of 5-HT1A and 5-HT2A receptor ligands. Chilmonczyk Z, et al. **Pharmazie** 1996 Dec;51(12):924–7

The effect of chronic fluvoxamine on hormonal and psychological responses to buspirone in normal volunteers. Anderson IM, et al. **Psychopharmacology (Berl)** 1996 Nov; 128(1):74–82

On the elevated plus-maze the anxiolytic-like effects of the 5-HT(1A) agonist, 8-OH-DPAT, but not the anxiogenic-like effects of the 5-HT(1A) partial agonist, buspirone, are blocked by the 5-HT1A antagonist, WAY 100635. Collinson N, et al. **Psychopharmacology (Berl)** 1997 Jul;132(1):35–43

Increased levels of extracellular noradrenaline in the frontal cortex of rats exposed to naturalistic environmental stimuli: modulation by acute systemic administration of diazepam or buspirone. Dalley JW, et al. **Psychopharmacology (Berl)** 1996 Sep;127(1):47–54

Preference for diazepam, but not buspirone, in moderate drinkers. Evans SM, et al. **Psychopharmacology (Berl)** 1996 Jan;123(2):154–63

The serotonin analogue buspirone increases the function of PBMC from HIV-infected individuals in vitro. Afzelius P, et al. **Scand J Infect Dis** 1997;29(2):117–20

[Buspirone—a wide-spectrum preparation] Molodavkin GM, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):3–6 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Buspirone, a serotonin receptor agonist, increases CD4 T-cell counts and modulates the immune system in HIV-seropositive subjects. Hofmann B, et al. **AIDS** 1996 Oct;10(12):1339–47

Efficacy of buspirone in alcohol dependence: a review. Malec TS, et al. **Alcohol Clin Exp Res** 1996 Aug;20(5):853–8 (39 ref.)

Alternative treatment for poststroke depression [letter] Mårtensson B, et al. **Am J Psychiatry** 1997 Apr; 154(4):583–4

Treatment with buspirone in a patient with autism. McCormick LH. **Arch Fam Med** 1997 Jul-Aug;6(4):368–70

Buspirone, a 5-hydroxytryptamine1A agonist, is active in cerebellar ataxia. Results of a double-blind drug placebo study in patients with cerebellar cortical atrophy. Trouillas P, et al. **Arch Neurol** 1997 Jun;54(6):749–52

Efficacy of buspirone in smoking cessation: a placebo-controlled trial. Schneider NG, et al. **Clin Pharmacol Ther** 1996 Nov;60(5):568–75

Efficacy and safety of two dosing regimens of buspirone in the treatment of outpatients with persistent anxiety. Sramek JJ, et al. **Clin Ther** 1997 May-Jun;19(3):498–506

A risk-benefit assessment of buspirone in the treatment of anxiety disorders. Pecknold JC. **Drug Saf** 1997 Feb; 16(2):118–32 (241 ref.)

Increased prolactin response to buspirone in chronic fatigue syndrome. Sharpe M, et al. **J Affect Disord** 1996 Nov 4; 41(1):71–6

The use of buspirone with aggressive behavior [letter] Hillbrand M, et al. **J Autism Dev Disord** 1995 Dec; 25(6):663–4

Bupropion for SSRI-induced fatigue [letter] Green TR. **J Clin Psychiatry** 1997 Apr;58(4):174

Clinical effects of buspirone in social phobia: a double-blind placebo-controlled study. van Vliet IM, et al. **J Clin Psychiatry** 1997 Apr;58(4):164–8

Buspirone for the treatment of anxiety in patients with chronic obstructive airways disease [letter] Alderman CP, et al. **J Clin Psychopharmacol** 1996 Oct;16(5):410–1

Patient with progressive dementia and choreaothetoid movements treated with buspirone [letter] Hamner M, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):261–2

Recent developments in the pharmacotherapy of alcohol dependence. Schuckit MA. **J Consult Clin Psychol** 1996 Aug;64(4):669–76 (82 ref.)

The effect of buspirone on challenging behaviour in mentally retarded patients: an open prospective multiple-case study. Verhoeven WM, et al. **J Intellect Disabil Res** 1996 Dec; 40 (Pt 6):502–8

Buspirone augmentation of fluvoxamine in the treatment of kleptomania. Durst R, et al. **J Nerv Ment Dis** 1997 Sep;

BUSPIRONE

185(9):586–8

Treatment of apneustic respiratory disturbance with a serotonin–receptor agonist. Wilken B, et al. **J Pediatr** 1997 Jan;130(1):89–94

Machado–Joseph disease/spinocerebellar ataxia 3 responsive to buspirone. Friedman JH. **Mov Disord** 1997 Jul; 12(4):613–4

Buspirone, a serotonergic 5–HT1A agonist, is active in cerebellar ataxia. A new fact in favor of the serotonergic theory of ataxia. Trouillas P, et al. **Prog Brain Res** 1997; 114:589–99

An open study of buspirone augmentation of serotonin–reuptake inhibitors in body dysmorphic disorder. Phillips KA. **Psychopharmacol Bull** 1996;32(1):175–80

Pharmacologic treatment of body dysmorphic disorder. Phillips KA. **Psychopharmacol Bull** 1996;32(4):597–605 (52 ref.)

Buspirone in the management of disruptive behaviors due to Huntington's disease and other neurological disorders. Bhandary AN, et al. **Psychosomatics** 1997 Jul–Aug; 38(4):389–91

Study and course of the psychological profile in 77 patients expressing panic disorder with agoraphobia after cognitive behaviour therapy with or without buspirone. Bouvard M, et al. **Psychother Psychosom** 1997;66(1):27–32

Buspirone is an effective augmenting agent of serotonin selective re–uptake inhibitors in severe treatment–refractory depression. Bouwer C, et al. **S Afr Med J** 1997 Apr;87(4 Suppl):534–7, 540

Alcohol treatment: measurement of effectiveness by global outcome. Thevos AK, et al. **Soc Work Health Care** 1996; 23(3):57–71

Behavioral and pharmacologic approaches to problem urination in cats. Hart BL. **Vet Clin North Am Small Anim Pract** 1996 May;26(3):651–8 (12 ref.)

[Anxiety and depression. Highlights from the 149th Session of the American Psychiatric Association, New York 4–9 May 1996] **Fortschr Neurol Psychiatr** 1997 Apr;65(4 Suppl Angst Und):1–4 **(Ger)**

[Effects of buspirone on the development of an experimental depressive syndrome in rats, caused by systemic administration of 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine (MPTP)] Krupina NA, et al. **Biull Eksp Biol Med** 1996 May; 121(5):489–94 **(Rus)**

BUSULFAN

Busulfan, cyclophosphamide and fractionated total body irradiation for autologous or syngeneic marrow transplantation for acute and chronic myelogenous leukemia: phase I dose escalation of busulfan based on targeted plasma levels. Demirer T, et al. **Bone Marrow Transplant** 1996 Apr;17(4):491–5

Bone marrow engraftment following unrelated donor transplantation utilizing busulfan and cyclophosphamide preparatory chemotherapy. Klein JL, et al. **Bone Marrow Transplant** 1996 Apr;17(4):479–83

Unrelated donor bone marrow transplantation without T cell depletion using a chemotherapy only condition regimen. Low incidence of failed engraftment and severe acute GVHD. Topolsky D, et al. **Bone Marrow Transplant** 1996 Apr;17(4):549–54

ADMINISTRATION & DOSAGE

A novel method of myeloablation to enhance engraftment of adult bone marrow cells in newborn mice. Yoder MC, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):59–67

Busulfan/cyclophosphamide in volunteer unrelated donor (VUD) BMT: excellent feasibility and low incidence of treatment–related toxicity. Bertz H, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1169–73

Busulfan and cyclophosphamide (BU/CY2) as preparative regimen for patients with lymphoma. de Magalhaes–Silverman M, et al. **Bone Marrow Transplant** 1997 Apr;19(8):777–81

High–dose busulfan and cyclophosphamide followed by autologous transplantation in patients with advanced breast cancer. Demirer T, et al. **Bone Marrow Transplant** 1996 May;17(5):769–74

Intermediate–dose busulfan and cyclophosphamide as a conditioning regimen for bone marrow transplantation in a case of Fanconi anemia in myelodysplastic transformation. Maschan AA, et al. **Bone Marrow Transplant** 1997 Feb;19(4):385–7

Unrelated allogeneic bone marrow transplantation using high–dose busulfan and cyclophosphamide (BU–CY) for the preparative regimen. Sahebi F, et al. **Bone Marrow Transplant** 1996 May;17(5):685–9

Intermediate–dose busulphan before autografting for advanced–phase chronic myeloid leukaemia. Rule SA, et al. **Br J Haematol** 1996 Sep;94(4):694–8

Therapeutic trial of intensified conditioning regimen with high–dose cytosine arabinoside, cyclophosphamide and either total body irradiation or busulfan followed by allogeneic bone marrow transplantation for myelodysplastic syndrome in children. Nagatoshi Y, et al. **Int J Hematol** 1997 Apr;65(3):269–75

Variability in determination of body weight used for dosing busulphan and cyclophosphamide in adult patients: results of an international survey. Grigg A, et al. **Leuk Lymphoma** 1997 May;25(5–6):487–91

ADVERSE EFFECTS

Eosinophilia after allogeneic bone marrow transplantation using busulfan and cyclophosphamide conditioning regimen [letter; comment] Arslan O, et al. **Bone Marrow Transplant** 1996 Jul;18(1):261. Comment on: Bone Marrow Transplant 1994 Jul;14(1):113–5.

Hepatic dysfunction following busulfan and cyclophosphamide myeloablation: a retrospective, multicenter analysis. Styler MJ, et al. **Bone Marrow Transplant** 1996 Jul;18(1):171–6

Growth in children undergoing bone marrow transplantation after busulfan and cyclophosphamide conditioning. Shankar SM, et al. **J Pediatr Hematol Oncol** 1996 Nov; 18(4):362–6

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 25–1997. A 60–year–old man with pulmonary infiltrates after a bone marrow transplantation [clinical conference] **N Engl J Med** 1997 Aug 14;337(7):480–9

[Complete remission of essential thrombocythemia after recovery from severe bone marrow aplasia induced by busulfan treatment] Yamamoto K, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):365–9 (Eng. Abstr.) **(Jpn)**

ANALOGS & DERIVATIVES

Maintenance chemotherapy with oral treosulfan following first–line treatment in patients with advanced ovarian cancer: feasibility and toxicity. Meden H, et al. **Anticancer Res** 1997 May–Jun;17(3C):2221–3

Biodegradation and toxicity of the antineoplastics mitoxantron hydrochloride and treosulfane in the Closed Bottle Test (OECD 301 D). al–Ahmad A, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):704–11

Synthesis of O–methylsulfonyl derivatives of D–glucose as potential alkylating agents for targeted drug delivery to the brain. Evaluation of their interaction with the human erythrocyte GLUT1 hexose transporter. Halmos T, et al. **Carbohydr Res** 1997 Mar 26;299(1–2):15–21

ANALYSIS

HPLC and GLC determination of residual solvents in busulphan. Kalchenko OI, et al. **J Pharm Biomed Anal** 1995 Dec;14(1–2):107–11

BLOOD

Marrow transplantation for chronic myeloid leukemia: the influence of plasma busulfan levels on the outcome of transplantation. Slattery JT, et al. **Blood** 1997 Apr 15; 89(8):3055–60

Measurement of plasma busulfan concentration by high–performance liquid chromatography with ultraviolet detection. Rifai N, et al. **Ther Drug Monit** 1997 Apr; 19(2):169–74

CHEMICAL SYNTHESIS

Synthesis of O–methylsulfonyl derivatives of D–glucose as potential alkylating agents for targeted drug delivery to the brain. Evaluation of their interaction with the human erythrocyte GLUT1 hexose transporter. Halmos T, et al. **Carbohydr Res** 1997 Mar 26;299(1–2):15–21

CHEMISTRY

Busulfan conjugation by glutathione S–transferases alpha, mu, and pi. Czerwinski M, et al. **Drug Metab Dispos** 1996 Sep;24(9):1015–9

PHARMACOKINETICS

Busulphan kinetics and limited sampling model in children with leukemia and inherited disorders. Hassan M, et al. **Bone Marrow Transplant** 1996 Nov;18(5):843–50

Characterization of the mechanisms of busulfan resistance in a human glioblastoma multiforme xenograft. Hare CB, et al. **Cancer Chemother Pharmacol** 1997;40(5):409–14

Validation of a high–performance liquid chromatographic assay method for pharmacokinetic evaluation of busulfan. Heggie JR, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):437–44

Aspects concerning busulfan pharmacokinetics and bioavailability. Hassan M, et al. **Leuk Lymphoma** 1996 Aug; 22(5–6):395–407 (130 ref.)

PHARMACOLOGY

Phase I–II study of high–dose busulfan and cyclophosphamide followed by autologous peripheral blood stem cell transplantation for hematological malignancies: toxicities and hematopoietic recovery. Ballester OF, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):9–14

Rat arterial wall retains myointimal hyperplastic potential long after arterial injury. Sirois MG, et al. **Circulation** 1997 Aug 19;96(4):1291–8

Growth of human hematopoietic cells in immunodeficient mice conditioned with cyclophosphamide and busulfan. Basch RS, et al. **Stem Cells** 1997;15(4):314–23

THERAPEUTIC USE

Interferon therapy, but not busulfan restores normal–sized megakaryopoiesis in CML––a comparative histo– and immunomorphometric study. Thiele J, et al. **Anal Cell Pathol** 1996 Jun;11(1):31–42

A long–lasting, complete hematologic and cytogenetic remission of chronic myelogenous leukemia after treatment with busulfan alone. Mandigers CM, et al. **Ann Hematol** 1996 Jun;72(6):371–3

Successful engraftment of allogeneic PBSC after conditioning with busulfan alone. Majolino I, et al. **Bone Marrow Transplant** 1997 Mar;19(6):621–3

Comparative analysis of the impact of risk profile and of drug therapy on survival in CML using Sokal's index and a new score. German chronic myeloid leukaemia (CML)–Study Group. Hehlmann R, et al. **Br J Haematol** 1997 Apr;97(1):76–85

Apoptosis and proliferation (PCNA labelling) in CML––a comparative immunohistological study on bone marrow biopsies following interferon and busulfan therapy. Thiele J, et al. **J Pathol** 1997 Mar;181(3):316–22

Current aspects of drug therapy in Philadelphia–positive CML: correlation of tumor burden with survival. Hehlmann R, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:161–7 (42 ref.)

Engraftment failure following bone marrow transplantation in children with thalassemia major using busulfan and cyclophosphamide conditioning. Solh H, et al. **Pediatr Hematol Oncol** 1997 Jan–Feb;14(1):73–7

[Busulfan versus busulfan–interferon as maintenance therapy in chronic myeloid leukemia] López Hernández MA, et al. **Rev Invest Clin** 1996 Jul–Aug;48(4):281–7 (Eng. Abstr.) **(Spa)**

[Complete cytogenetic remission of chronic myeloid leukemia with low–dose interferon alfa–2b and monthly high–dose busulfan] Armenta D, et al. **Sangre (Barc)** 1996 Dec;41(6):465–7 (Eng. Abstr.) **(Spa)**

TOXICITY

Comparison of the lymphoid toxicities of mitobronitol and busulphan in mice: reduced B cell toxicity and improved thymic recovery as possible contributors to the reduced risk for complications following BMT with mitobronitol preconditioning. Szebeni J, et al. **Leukemia** 1997 Oct; 11(10):1769–74

Carpal and tarsal bone development is highly sensitive to three antiproliferative teratogens in mice. Rahman ME, et al. **Reprod Toxicol** 1996 Nov–Dec;10(6):485–9

BUSULPHAN see BUSULFAN

BUTADIENES

Effect of temperature on the thermodynamic properties, kinetic performance, and stability of polybutadiene–coated zirconia. Li J, et al. **Anal Chem** 1997 Mar 1;69(5):837–43

Genetic alterations of p53 and ras genes in 1,3–butadiene– and 2',3'–dideoxycytidine–induced lymphomas. Zhuang SM, et al. **Cancer Res** 1997 Jul 1;57(13):2710–4

Radiation–induced graft copolymer SBS–g–VP for biomaterial usage. Yang JM, et al. **J Biomed Mater Res** 1996 Jun;31(2):281–6

Abnormal DNA repair activities in lymphocytes of workers exposed to 1,3–butadiene. Hallberg LM, et al. **Mutat Res** 1997 May 1;383(3):213–21

Evaluation of Butadiene and Isoprene Health Risks. Proceedings of the international symposium. Blaine, Washington, June 27–29, 1995. **Toxicology** 1996 Oct 28; 113(1–3):1–362

ANALYSIS

1,3 Butadiene and environmental tobacco smoke [letter; comment] Coggins CR. **Circulation** 1997 Jan 7;95(1):275–6 . Comment on: Circulation 1996 Feb 1;93(3):552–7.

Biomonitoring of 1,3–butadiene and related compounds. Osterman–Golkar S, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:907–15 (85 ref.)

Detection of isoprene in expired air from human subjects using proton–transfer–reaction mass spectrometry. Taucher J, et al. **Rapid Commun Mass Spectrom** 1997;11(11):1230–4

CHEMISTRY

A study of the efficiency of polybutadiene–coated zirconia as a reversed–phase chromatographic support. Li J, et al. **Anal Chem** 1997 Jun 1;69(11):2193–201

Evaluation of temperature effects on selectivity in RPLC separations using polybutadiene–coated zirconia. Li J, et al. **Anal Chem** 1997 Jun 1;69(11):2202–6

Retention characteristics of polybutadiene–coated zirconia and comparison to conventional bonded phases. Li J, et al. **Anal Chem** 1996 Sep 1;68(17):2857–68

Inhibitory effect of a new butadiene derivative on the production of plasminogen activator inhibitor–1 in cultured bovine endothelial cells. Ohtani A, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1203–8

Models for polybutadiene pore wall coatings in porous zirconia. Reeder DH, et al. **J Chromatogr A** 1997 Jan 24; 760(1):71–9

METABOLISM

Species differences in metabolism of 1,3-butadiene. Henderson RF. **Adv Exp Med Biol** 1996;387:371-6 (14 ref.)

Novel modifications to the farnesyl moiety of the a-factor lipopeptide pheromone from Saccharomyces cerevisiae: a role for isoprene modifications in ligand presentation. Dawe AL, et al. **Biochemistry** 1997 Oct 7;36(40):12036-44

32P-postlabelling/HPLC assay reveals an enantioselective adduct formation in N7 guanine residues in vivo after 1,3-butadiene inhalation exposure. Koivisto P, et al. **Carcinogenesis** 1997 Feb;18(2):439-43

The biotransformation of isoprene and the two isoprene monoepoxides by human cytochrome P450 enzymes, compared to mouse and rat liver microsomes. Bogaards JJ, et al. **Chem Biol Interact** 1996 Dec 20;102(3):169-82

Stereochemical aspects of 1,3-butadiene metabolism and toxicity in rat and mouse liver microsomes and freshly isolated rat hepatocytes. Nieusma JL, et al. **Chem Res Toxicol** 1997 Apr;10(4):450-6

Incorporation of 1-deoxy-D-xylulose into isoprene and phytol by higher plants and algae. Schwender J, et al. **FEBS Lett** 1997 Sep 1;414(1):129-34

Breath isoprene: temporal changes in respiratory output after exposure to ozone [letter] Foster WM, et al. **J Appl Physiol** 1996 Feb;80(2):706-10

Monophosphate 32P-postlabeling assay of DNA adducts from 1,2:3,4-diepoxybutane, the most genotoxic metabolite of 1,3-butadiene: in vitro methodological studies and in vivo dosimetry. Mabon N, et al. **Mutat Res** 1996 Nov 4; 371(1-2):87-104

Metabolic interactions of 1,3-butadiene and styrene in male B6C3F1 mice. Leavens TL, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):628-36

Biological formation of the 1,3-butadiene DNA adducts 7-N-(2-hydroxy-3-buten-1-yl)guanine, 7-N-(1-hydroxy-3-buten-2-yl)guanine and 7-N-(2,3,4-trihydroxy-butyl)guanine. Bolt HM, et al. **Toxicology** 1996 Oct 28;113(1-3):328-30

Metabolism of isoprene in vivo. Dahl AR. **Toxicology** 1996 Oct 28;113(1-3):273-7

Biochemistry of 1,3-butadiene metabolism and its relevance to 1,3-butadiene-induced carcinogenicity. Elfarra AA, et al. **Toxicology** 1996 Oct 28;113(1-3):23-30

Metabolism of 1,3-butadiene: species differences. Henderson RF, et al. **Toxicology** 1996 Oct 28;113(1-3):17-22 (18 ref.)

Molecular modelling of CYP2E1 enzymes from rat, mouse and man: an explanation for species differences in butadiene metabolism and potential carcinogenicity, and rationalization of CYP2E substrate specificity. Lewis DF, et al. **Toxicology** 1997 Mar 28;118(2-3):93-113

Biological monitoring of butadiene exposure by measurement of haemoglobin adducts. Richardson KA, et al. **Toxicology** 1996 Oct 28;113(1-3):112-8

1,3-Butadiene metabolism by lung airways isolated from mice and rats. Seaton MJ, et al. **Toxicology** 1996 Oct 28; 113(1-3):314-7

Gender and species differences in the metabolism of 1,3-butadiene to butadiene monoepoxide and butadiene diepoxide in rodents following low-level inhalation exposures. Thornton-Manning JR, et al. **Toxicology** 1996 Oct 28;113(1-3):322-5

Macromolecular adducts of butadiene. Tretyakova NYu, et al. **Toxicology** 1996 Oct 28;113(1-3):70-6

PHARMACOKINETICS

Physiologically based pharmacokinetic modeling of 1,3-butadiene, 1,2-epoxy-3-butene, and 1,2:3,4-diepoxybutane toxicokinetics in mice and rats. Sweeney LM, et al. **Carcinogenesis** 1997 Apr;18(4):611-25

Characterization of urinary metabolites from Sprague-Dawley rats and B6C3F1 mice exposed to [1,2,3,4-13C]butadiene. Nauhaus SK, et al. **Chem Res Toxicol** 1996 Jun;9(4):764-73

Metabolism of butadiene by mice, rats, and humans: a comparison of physiologically based toxicokinetic model predictions and experimental data. Bond JA, et al. **Toxicology** 1996 Oct 28;113(1-3):48-54

A physiological toxicokinetic model for 1,3-butadiene in rodents and man: blood concentrations of 1,3-butadiene, its metabolically formed epoxides, and of haemoglobin adducts--relevance of glutathione depletion. Csanády GA, et al. **Toxicology** 1996 Oct 28;113(1-3):300-5

Toxicokinetics of isoprene in rodents and humans. Filser JG, et al. **Toxicology** 1996 Oct 28;113(1-3):278-87

Metabolism of 1,3-butadiene: inhalation pharmacokinetics and tissue dosimetry of butadiene epoxides in rats and mice. Himmelstein MW, et al. **Toxicology** 1996 Oct 28; 113(1-3):306-9

PBPK model for butadiene metabolism to epoxides: quantitative species differences in metabolism. Johanson G, et al. **Toxicology** 1996 Oct 28;113(1-3):40-7

Effects of the structure of a toxicokinetic model of butadiene inhalation exposure on computed production of carcinogenic intermediates. Kohn MC, et al. **Toxicology** 1996 Oct 28;113(1-3):31-9

Pharmacokinetic model describing the disposition of butadiene and styrene in mice. Leavens TL, et al. **Toxicology** 1996 Oct 28;113(1-3):310-3

PHARMACOLOGY

[Blood chemical analysis. G. Development of a new blood anticoagulant] Tamada Y, et al. **Rinsho Byori** 1996 Nov; Suppl 103:192-9 **(Jpn)**

TOXICITY

Intranephron distribution of cysteine S-conjugate beta-lyase activity and its implication for hexachloro-1,3-butadiene-induced nephrotoxicity in rats. Kim HS, et al. **Arch Toxicol** 1997;71(3):131-41

Both K-ras and H-ras protooncogene mutations are associated with Harderian gland tumorigenesis in B6C3F1 mice exposed to isoprene for 26 weeks. Hong HL, et al. **Carcinogenesis** 1997 Apr;18(4):783-9

Haemoglobin adducts of epoxybutanediol from exposure to 1,3-butadiene or butadiene epoxides. Pérez HL, et al. **Chem Biol Interact** 1997 Aug 1;105(3):181-98

Toxicology and epidemiology of 1,3-butadiene. Himmelstein MW, et al. **Crit Rev Toxicol** 1997 Jan;27(1):1-108 (239 ref.)

Inhalation exposure of rats and mice to 1,3-butadiene induces N6-adenine adducts of epoxybutene detected by 32P-postlabeling and HPLC. Koivisto P, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:655-7

Genotoxicity and cytotoxicity in male B6C3F1 mice following exposure to mixtures of 1,3-butadiene and styrene. Leavens TL, et al. **Environ Mol Mutagen** 1997; 29(4):335-45

Assessment of 1,3-butadiene mutagenicity in the bone marrow of B6C3F1 lacI transgenic mice (Big Blue): a review of mutational spectrum and lacI mutant frequency after a 5-day 625 ppm 1,3-butadiene exposure. Recio L, et al. **Environ Mol Mutagen** 1996;28(4):424-9

The use of toxicologic data in mechanistic risk assessment: 1,3-butadiene as a case study. Bond JA, et al. **Int Arch Occup Environ Health** 1996;68(6):415-20 (34 ref.)

Somatic and germ cell effects in rats and mice after treatment with 1,3-butadiene and its metabolites, 1,2-epoxybutene and 1,2,3,4-diepoxybutane. Anderson D, et al. **Mutat Res** 1997 Jul 14;391(3):233-42

Butadiene epidemiology: a summary of results and outstanding issues. Acquavella JF. **Toxicology** 1996 Oct 28;113(1-3):148-56 (30 ref.)

Male-mediated F1 effects in mice exposed to 1,3-butadiene. Anderson D, et al. **Toxicology** 1996 Oct 28;113(1-3):120-7

Studies on the molecular toxicology of buta-1,3-diene and isoprene epoxides. Bleasdale C, et al. **Toxicology** 1996 Oct 28;113(1-3):290-3

Butadiene and isoprene: future studies and implications. Bolt HM. **Toxicology** 1996 Oct 28;113(1-3):356-60

Risk assessment of butadiene for the Existing Substances Regulation (ESR) in the European Union. Brooke IM. **Toxicology** 1996 Oct 28;113(1-3):226-30

Review of risk assessments on 1,3-butadiene (1985-1991). Cagen SZ, et al. **Toxicology** 1996 Oct 28;113(1-3):215-20 (17 ref.)

Review of reproductive and developmental toxicity of 1,3-butadiene. Christian MS. **Toxicology** 1996 Oct 28; 113(1-3):137-43 (26 ref.)

Isoprene cancer risk and the time pattern of dose administration. Cox LA Jr, et al. **Toxicology** 1996 Oct 28; 113(1-3):263-72

A follow-up study of synthetic rubber workers. Delzell E, et al. **Toxicology** 1996 Oct 28;113(1-3):182-9

Mortality update of butadiene production workers. Divine BJ, et al. **Toxicology** 1996 Oct 28;113(1-3):169-81

Risk assessment of butadiene in ambient air; the approach used in the UK. Fielder RJ. **Toxicology** 1996 Oct 28; 113(1-3):221-5

hprt mutation frequency among workers exposed to 1,3-butadiene in China. Hayes RB, et al. **Toxicology** 1996 Oct 28;113(1-3):100-5

Future research needs for non-cancer and cancer effects among populations exposed to 1,3-butadiene. Koppikar AM. **Toxicology** 1996 Oct 28;113(1-3):203-9 (43 ref.)

Leukemia and cumulative exposure to butadiene, styrene and benzene among workers in the synthetic rubber industry. Macaluso M, et al. **Toxicology** 1996 Oct 28; 113(1-3):190-202

Inhalation toxicity and carcinogenicity of isoprene in rats and mice: comparisons with 1,3-butadiene. Melnick RL, et al. **Toxicology** 1996 Oct 28;113(1-3):247-52 (22 ref.)

Risk assessment for butadiene: introductory and summary comments. Omenn GS. **Toxicology** 1996 Oct 28; 113(1-3):5-11

Butadiene inhalation accelerates arteriosclerotic plaque development in cockerels. Penn A, et al. **Toxicology** 1996 Oct 28;113(1-3):351-4

Chronic inhalation oncogenicity study of isoprene in B6C3F1 mice. Placke ME, et al. **Toxicology** 1996 Oct 28; 113(1-3):253-62

Mutagenicity and mutational spectra of 1,3-butadiene in the bone marrow of B6C3F1 lacI transgenic mice. Recio L, et al. **Toxicology** 1996 Oct 28;113(1-3):106-11

Using PBPK modeling and comprehensive realism methodology for the quantitative cancer risk assessment of butadiene. Sielken RL Jr, et al. **Toxicology** 1996 Oct 28;113(1-3):231-7

Assessment of exposure to butadiene in the process industry. Sorsa M, et al. **Toxicology** 1996 Oct 28;113(1-3):77-83

Isoprene: background and issues. Taalman RD. **Toxicology** 1996 Oct 28;113(1-3):242-6 (22 ref.)

Biological effect monitoring in industrial workers from the Czech Republic exposed to low levels of butadiene. Tates AD, et al. **Toxicology** 1996 Oct 28;113(1-3):91-9

Mortality study of workers employed in 1,3-butadiene production units identified from a large chemical workers cohort. Ward EM, et al. **Toxicology** 1996 Oct 28; 113(1-3):157-68

Biological monitoring for mutagenic effects of occupational exposure to butadiene. Ward JB Jr, et al. **Toxicology** 1996 Oct 28;113(1-3):84-90

BUTANEDIOLS

Kinetics of permeation of 2,3-butanediol on isolated perfused rat kidney model assessed by proton nuclear magnetic resonance spectroscopy. Eschwège P, et al. **Transplant Proc** 1997 Aug;29(5):2435-6

CHEMISTRY

Modification of poly(ether urethane)elastomers by incorporation of poly(isobutylene)glycol. Relation between polymer properties and thrombogenicity. Mitzner E, et al. **J Biomater Sci Polym Ed** 1996;7(12):1105-18

METABOLISM

A detoxication route for acetaldehyde: metabolism of diacetyl, acetoin, and 2,3-butanediol in liver homogenate and perfused liver of rats. Otsuka M, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):246-51

PHARMACOLOGY

Hydroxyl radical-scavenging property of secoisolariciresinol diglucoside (SDG) isolated from flax-seed. Prasad K. **Mol Cell Biochem** 1997 Mar;168(1-2):117-23

THERAPEUTIC USE

Antitumorigenic effect of a mammalian lignan precursor from flaxseed. Thompson LU, et al. **Nutr Cancer** 1996; 26(2):159-65

2,3-BUTANEDIONE see **DIACETYL**

BUTANES

Complications following butane inhalation and flash fire. Huston BM, et al. **Am J Forensic Med Pathol** 1997 Jun; 18(2):140-3

POISONING

Sudden death due to butane inhalation. Rohrig TP. **Am J Forensic Med Pathol** 1997 Sep;18(3):299-302

Accidental death due to inhalation of butane [letter] Winek CL, et al. **J Anal Toxicol** 1997 Jul-Aug;21(4):323

BUTANOIC ACIDS see **BUTYRIC ACIDS**

1,4-BUTANOLIDE see **4-BUTYROLACTONE**

BUTANOLS see **ALCOHOLS, BUTYL**

BUTANONES

ADVERSE EFFECTS

Hypereosinophilic syndrome: endomyocardial fibrosis [see comments] Pitt M, et al. **Heart** 1996 Oct;76(4):377-8. Comment in: Heart 1997 Apr;77(4):391.

Tolerability of nabumetone: a pilot in vitro study showing absence of injury to articular cartilage. Giordano N, et al. **Int J Tissue React** 1996;18(4-6):105-8

[The consumption of alcoholic drinks in Spain in the period of 1940-1987 (letter; comment)] Graciani MA, et al. **Med Clin (Barc)** 1996 Apr 6;106(13):517. Comment on: Med Clin (Barc) 1995 Apr 15;104(14):544-50. **(Spa)**

BLOOD

Volatile organic compound testing of a population living near a hazardous waste site. Hamar GB, et al. **J Expo Anal Environ Epidemiol** 1996 Apr-Jun;6(2):247-55

CHEMISTRY

The enantiomeric purity of alcohols formed by enzymatic reduction of ketones can be improved by optimisation of the temperature and by using a high co-substrate concentration. Yang H, et al. **Biochim Biophys Acta** 1997 Jul 19;1336(1):51-8

4-(6-methoxy-2-naphthyl)-2-butyl chloroformate enantiomers: new reagents for the enantiospecific analysis of amino compounds in biogenic matrices. Büschges R, et al. **J Pharm Biomed Anal** 1996 Nov;15(2):201-20

PHARMACOKINETICS

Inhibitory mechanism of intestinal ethanol absorption induced by high acetaldehyde concentrations: effect of intestinal blood flow and substance specificity. Kinoshita H, et al. **Alcohol Clin Exp Res** 1996 May;20(3):510-3

Oral and topical absorption, disposition kinetics, and the metabolic fate of trans-methyl styryl ketone in the male Fischer 344 rat. Sauer JM, et al. **Drug Metab Dispos** 1997 Jun;25(6):732-9

Lymph distribution of different non-steroidal anti-inflammatory drugs assessed by microsurgical

cannulation of the thoracic duct in rat. Ionac M, et al. **Rom J Intern Med** 1996 Jul-Dec;34(3-4):239-51

PHARMACOLOGY

Interaction of styrene and ethylmethylketone in the induction of cytochrome P450 enzymes in rat lung, kidney and liver after separate and combined inhalation exposures. Nedelcheva V. **Cent Eur J Public Health** 1996 May; 4(2):115-8

Comparative effects of nabumetone, sulindac, and ibuprofen on renal function. Cook ME, et al. **J Rheumatol** 1997 Jun; 24(6):1137-44

The in vitro effects of 6-methoxy-2-naphthylacetic acid, the active metabolite of nabumetone, on rat gastric mucosal eicosanoid synthesis and metabolism. Melarange R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):195-200

Effect of coexposure to methyl ethyl ketone (MEK) on n-hexane toxicokinetics in human volunteers. van Engelen JG, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):385-95

[Nabumetone, a new nonsteroidal antiinflammatory agent: clinical prospects] Nasonov EL, et al. **Klin Med (Mosk)** 1996;74(8):13-6 (63 ref.) **(Rus)**

POISONING

Neurotoxicity associated with occupational exposure to acetone, methyl ethyl ketone, and cyclohexanone. Mitran E, et al. **Environ Res** 1997;73(1-2):181-8

THERAPEUTIC USE

The efficacy, tolerability, and safety of 1200 mg/d of oxaprozin and 1500 mg/d of nabumetone in the treatment of patients with osteoarthritis of the knee. Makarowski W, et al. **Clin Ther** 1996 Jan-Feb;18(1):114-24

Health-related quality of life assessments in osteoarthritis during NSAID treatment. de Bock GH, et al. **Pharm World Sci** 1996 Aug;18(4):130-6

[Efficacy and safety of nabumetone in the treatment of knee osteoarthritis: a comparative clinical trial versus aceclofenac. Study Group of Nabumetone for Osteoarthritis of the Knee] Gijón Baños J. **Med Clin (Barc)** 1997 Jun 21;109(4):130-4 (Eng. Abstr.) **(Spa)**

TOXICITY

Reproductive toxicity evaluation of methylethyl ketoxime by gavage in CD rats. Tyl RW, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):149-61

Ketone potentiation of haloalkane-induced hepatotoxicity: CCl4 and ketone treatment on hepatic membrane integrity. Raymond P, et al. **J Toxicol Environ Health** 1996 Oct 25; 49(3):285-300

2-BUTENOIC ACIDS see **CROTONIC ACIDS**

BUTHIONINE SULFOXIMINE

PHARMACOLOGY

Effects of buthionine sulfoximine on the outcome of the in utero administration of alcohol on fetal development. Reyes E, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1243-51

Ca2+ mobilization during cell death induction by sodium 5, 6-benzylidene-L-ascorbate. Takahashi H, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2629-34

Glutathione and the rate of cellular proliferation determine tumour cell sensitivity to tumour necrosis factor in vivo. Obrador E, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):183-9

Potentiation of aflatoxin B1-induced hepatocarcinogenesis in the rat by pretreatment with buthionine sulfoximine. Hiruma S, et al. **Cancer Lett** 1997 Feb 26;113(1-2):103-9

Comparison of lens biochemistry and structure between BSO-treated and glucocorticoid-treated developing chick embryos. Murakami I, et al. **Exp Eye Res** 1996 Dec; 63(6):673-81

No-induced oxidative stress and glutathione metabolism in rodent and human cells. Luperchio S, et al. **Free Radic Biol Med** 1996;21(4):513-9

Psychomotor effects of dopamine infusion under decreased glutathione conditions. Shukitt-Hale B, et al. **Free Radic Biol Med** 1997;23(3):412-8

Manipulation of glutathione stores in rat hepatic stellate cells does not alter collagen synthesis. Maher JJ, et al. **Hepatology** 1997 Sep;26(3):618-23

Mechanistic aspects of modification of radiobiological damage in barley seeds by glutathione and buthionine sulfoximine. Singh SP, et al. **Indian J Exp Biol** 1996 Mar; 34(3):247-51

Effect of buthionine sulfoximine, a synthesis inhibitor of the antioxidant glutathione, on the murine nigrostriatal neurons. Andersen JK, et al. **J Neurochem** 1996 Nov; 67(5):2164-71

Lazaroid treatment prevents death of cultured rat embryonic mesencephalic neurons following glutathione depletion. Grasbon-Frodl EM, et al. **J Neurochem** 1996 Oct; 67(4):1653-60

Effect of glutathione depletion on cisplatin resistance in cancer cells transfected with the gamma-glutamylcysteine synthetase gene. Kurokawa H, et al. **Jpn J Cancer Res** 1997 Feb;88(2):108-10

Effects on interstitial glutathione, cysteine and 5-S-cysteinyldopa of buthionine sulphoximine in human melanoma transplants. Dizdar N, et al. **Melanoma Res** 1997 Aug;7(4):322-8

Stimulation of glutathione synthesis of in vitro matured bovine oocytes and its effect on embryo development and freezability. de Matos DG, et al. **Mol Reprod Dev** 1996 Dec;45(4):451-7

Modulation of the clastogenic activity of bleomycin by reduced-glutathione, glutathione-ester and buthionine sulphoximine. Chattopadhyay A, et al. **Mutagenesis** 1997 Jul;12(4):221-5

UV-b-induced cataract model in brown-Norway rat eyes combined with preadministration of buthionine sulfoximine. Hatano T, et al. **Ophthalmic Res** 1996;28 Suppl 2:54-63

Selective and synergistic activity of L-S,R-buthionine sulfoximine on malignant melanoma is accompanied by decreased expression of glutathione-S-transferase. Fruehauf JP, et al. **Pigment Cell Res** 1997 Aug;10(4):236-49

Pharmacologic modulation of reduced glutathione circadian rhythms with buthionine sulfoximine: relationship with cisplatin toxicity in mice. Li XM, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):281-90

Effect of thiols on cadmium-induced expression of metallothionein and other oxidant stress genes in rat lung epithelial cells. Gong Q, et al. **Toxicology** 1997 May 16; 119(3):179-91

TOXICITY

Acute hepatotoxic potential of imazalil fungicide in rats. Nakagawa Y, et al. **Bull Environ Contam Toxicol** 1997 Mar; 58(3):402-7

Modifications in lens protein biosynthesis signal the initiation of cataracts induced by buthionine sulfoximine in mice. Calvin HI, et al. **Exp Eye Res** 1996 Oct;63(4):357-68

Aggravation of polycystic kidney disease in Han:SPRD rats by buthionine sulfoximine. Torres VE, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1283-91

Cataractogenesis and lipid peroxidation in newborn rats treated with buthionine sulfoximine: preventive actions of melatonin. Li ZR, et al. **J Pineal Res** 1997 Apr;22(3):117-23

Buthionine sulfoximine (BSO) and N-(3,5-dichlorophenyl)succinimide nephrotoxicity: temporal aspects of BSO administration and BSO effects on renal transport systems. Rankin GO, et al. **Toxicology** 1997 Feb 28;117(2-3):207-17

BUTORPHANOL

Caudal epidural butorphanol plus bupivacaine versus bupivacaine in pediatric outpatient genitourinary procedures. Lawhorn CD, et al. **J Clin Anesth** 1997 Mar; 9(2):103-8

Butorphanol (Stadol): a study in problems of current drug information and control. Fisher MA, et al. **Neurology** 1997 May;48(5):1156-60

A comparative study of medetomidine-butorphanol-ketamine and medetomidine-ketamine anaesthesia in dogs. Tomizawa N, et al. **Zentralbl Veterinarmed A** 1997 Jun;44(4):189-94

[Combined general anesthesia using moradol in children] Agzamkhodzhaev TS, et al. **Anesteziol Reanimatol** 1996 Nov-Dec;(6):39-41 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Continuous brachial plexus infusion of butorphanol-mepivacaine mixtures for analgesia after upper extremity surgery. Wajima Z, et al. **Br J Anaesth** 1997 Jan;78(1):83-5

Transnasal butorphanol: pain relief in the head and neck patient. Cannon CR. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):197-200

ADVERSE EFFECTS

Mu- and delta-opioid receptor antagonists precipitate similar withdrawal phenomena in butorphanol and morphine dependence. Feng YZ, et al. **Neurochem Res** 1996 Jan; 21(1):63-71

Withdrawal syndrome is not precipitated when butorphanol is added to opiate or opioid therapy. A comment on intranasal butorphanol-induced apraxia reversed by naloxone [comment] Barkin RL. **Pharmacotherapy** 1996 Sep-Oct;16(5):969. Comment on: Pharmacotherapy 1995 Nov-Dec;15(6):798-800.

Effects of diltiazem, a Ca2+ channel blocker, on naloxone-precipitated changes in dopamine and its metabolites in the brains of opioid-dependent rats. Tokuyama S, et al. **Psychopharmacology (Berl)** 1996 May; 125(2):135-40

ANALOGS & DERIVATIVES

The pharmacokinetics of butorphanol and its metabolites at steady state following nasal administration in humans. Vachharajani NN, et al. **Biopharm Drug Dispos** 1997 Apr; 18(3):191-202

ANALYSIS

Profiling impurities and degradants of butorphanol tartrate using liquid chromatography/mass spectrometry and liquid chromatography/tandem mass spectrometry substructural techniques. Volk KJ, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1663-74

BLOOD

Quantitative determination of butorphanol and its metabolites in human plasma by gas chromatography-electron capture negative-ion chemical ionization mass spectrometry. Mulvana DE, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):289-300

PHARMACOKINETICS

The pharmacokinetics of butorphanol and its metabolites at steady state following nasal administration in humans. Vachharajani NN, et al. **Biopharm Drug Dispos** 1997 Apr; 18(3):191-202

Lack of pharmacokinetic interaction between butorphanol nasal spray and cimetidine. Shyu WC, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):513-7

The absolute bioavailability and pharmacokinetics of butorphanol nasal spray in patients with hepatic impairment. Vachharajani NN, et al. **Clin Pharmacol Ther** 1996 Sep;60(3):283-94

Pharmacokinetics of epidural butorphanol in isoflurane-anaesthetized dogs. Troncy E, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):268-73

PHARMACOLOGY

Effects of three sedative protocols on glomerular filtration rate in clinically normal dogs. Newell SM, et al. **Am J Vet Res** 1997 May;58(5):446-50

Evaluation of analgesia and cardiorespiratory effects of epidurally administered butorphanol in isoflurane-anesthetized dogs. Troncy E, et al. **Am J Vet Res** 1996 Oct;57(10):1478-82

Premedication with the opioid analgesic butorphanol raises the threshold for ischemic preconditioning in dogs. Schwartz LM, et al. **Basic Res Cardiol** 1997 Apr; 92(2):106-14

Effect of butorphanol on equine antroduodenal motility. Merritt AM, et al. **Equine Vet J Suppl** 1989 Jun;(7):21-3

Ability of flumazenil, butorphanol, and naloxone to reverse the anesthetic effects of oxymorphone-diazepam in dogs. Lemke KA, et al. **J Am Vet Med Assoc** 1996 Aug 15; 209(4):776-9

Butorphanol-mediated antinociception in mice: partial agonist effects and mu receptor involvement. Garner HR, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1253-61

Discriminative stimulus effects of butorphanol: influence of training dose on the substitution patterns produced by Mu, Kappa and Delta opioid agonists. Picker MJ, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1130-41

Influence of acute and chronic morphine or stadol on the secretion of adrenocorticotrophin and its hypothalamic releasing hormone in the rat. el Daly ES. **Life Sci** 1996; 59(22):1881-90

Kappa-opioids produce significantly greater analgesia in women than in men [see comments] Gear RW, et al. **Nat Med** 1996 Nov;2(11):1248-50. Comment in: Nat Med 1996 Nov;2(11):1184-5.

Naloxone-precipitated changes in biogenic amines and their metabolites in various brain regions of butorphanol-dependent rats. Tokuyama S, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):461-8

Modulating effects of a cold water stimulus on opioid effects in volunteers. Conley KM, et al. **Psychopharmacology (Berl)** 1997 Jun;131(4):313-20

[Use of a mix of lidocaine and butorphanol as a caudal epidural anesthesia in a mare] Csik-Salmon J, et al. **Can J Vet Res** 1996 Oct;60(4):288-95 (Eng. Abstr.) **(Fre)**

[Assessment of central hemodynamics during long microsurgical interventions using beforal in children] Medvedeva EA, et al. **Anesteziol Reanimatol** 1996 Nov-Dec;(6):43-4 (Eng. Abstr.) **(Rus)**

[Neurophysiological analysis of analgesic effect of phentanyl and moradol] Meizerov EE, et al. **Anesteziol Reanimatol** 1996 Jul-Aug;(4):10-3 (Eng. Abstr.) **(Rus)**

[The effect of Moradol (butorphanol tartrate) on immunity] Byshovets SN, et al. **Lik Sprava** 1997 Jan-Feb;(1):92-8 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Comparison of epidural butorphanol plus clonidine with butorphanol alone for postoperative pain relief. Tan PH, et al. **Acta Anaesthesiol Sin** 1997 Jun;35(2):91-6

Transnasal butorphanol in the emergency department management of migraine headache. Melanson SW, et al. **Am J Emerg Med** 1997 Jan;15(1):57-61

A prospective comparison of transnasal butorphanol and acetaminophen with codeine for the relief of acute musculoskeletal pain [letter] Wolford R, et al. **Am J Emerg Med** 1997 Jan;15(1):101-3

A comparison of N-butylscopolammonium bromide and butorphanol tartrate for analgesia using a balloon model of abdominal pain in ponies. Boatwright CE, et al. **Can J Vet Res** 1996 Jan;60(1):65-8

A comparison of ketorolac with flunixin, butorphanol, and oxymorphone in controlling postoperative pain in dogs. Mathews KA, et al. **Can Vet J** 1996 Sep;37(9):557-67

Transnasal butorphanol for the treatment of opioid-induced pruritus unresponsive to antihistamines. Dunteman E, et al. **J Pain Symptom Manage** 1996 Oct;12(4):255-60

Sex, drugs and...[news; comment] Berkley KJ. **Nat Med** 1996 Nov;2(11):1184-5. Comment on: Nat Med 1996 Nov;2(11):1248-50.

[Arrest of the painful syndrome by moradol and nubain in patients with ischemic heart disease] Litovchenko VS, et al. **Anesteziol Reanimatol** 1996 Jul-Aug;(4):30-1 (Eng. Abstr.) **(Rus)**

BUTOXAMINE

THERAPEUTIC USE

Effects of selective beta-adrenoceptor antagonists on gastric ulceration in the rat. Kaan SK, et al. **J Pharm Pharmacol** 1997 Feb;49(2):200-5

BUTTER

Butter, margarine and serum lipoproteins. Zock PL, et al. **Atherosclerosis** 1997 May;131(1):7-16 (72 ref.)

Effects of partially hydrogenated fish oil, partially hydrogenated soybean oil and butter on the susceptibility of low density lipoprotein to oxidative modification in men. Halvorsen B, et al. **Eur J Clin Nutr** 1996 Jun;50(6):364-70

Intestinal lymph absorption of butter, corn oil, cod liver oil, menhaden oil, and eicosapentaenoic and docosahexaenoic acid ethyl esters in rats. Degrace P, et al. **Lipids** 1996 Apr; 31(4):405-14

ANALYSIS

Effects of dietary calcium soaps of unsaturated fatty acids on digestion, milk composition and physical properties of butter. Enjalbert F, et al. **J Dairy Res** 1997 May; 64(2):181-95

Physical treatments affecting the solid fat content of butter fat: thermal treatment of cream and membrane partition of butter oil. Fanni J, et al. **J Dairy Sci** 1996 Aug; 79(8):1460-6

BUTTER YELLOW see **P-DIMETHYLAMINOAZOBENZENE**

BUTTERFLIES

Mimicry meets the mitochondrion. Evolution. Mallet J, et al. **Curr Biol** 1996 Aug 1;6(8):937-40 (15 ref.)

Nocturnality and species survival. Daily GC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11709-12

CHEMISTRY

Presence in Pieris rapae of cytotoxic activity against human carcinoma cells. Koyama K, et al. **Jpn J Cancer Res** 1996 Dec;87(12):1259-62

CYTOLOGY

Effects of various conditioned media on proliferation of an isolated single cell from insect cell lines [letter] Itoh T, et al. **In Vitro Cell Dev Biol Anim** 1995 Dec;31(11):814-6

Production of ethanol by cultured insect cells. Takahashi M, et al. **In Vitro Cell Dev Biol Anim** 1995 Dec;31(11):876-9

ENZYMOLOGY

Isolation and characterization of CYP6B4, a furanocoumarin-inducible cytochrome P450 from a polyphagous caterpillar (Lepidoptera:papilionidae). Hung CF, et al. **Insect Biochem Mol Biol** 1997 May;27(5):377-85

GENETICS

Pattern formation in colour on butterfly wings. French V. **Curr Opin Genet Dev** 1997 Aug;7(4):524-9 (30 ref.)

The genetics and development of an eyespot pattern in the butterfly Bicyclus anynana: response to selection for eyespot shape. Monteiro A, et al. **Genetics** 1997 May; 146(1):287-94

From butterflies to babies. Clarke CA. **J R Nav Med Serv** 1997;82(3):232-8 (8 ref.)

GROWTH & DEVELOPMENT

Color pattern formation on the wing of the butterfly Pieris rapae. 1. Cautery induced alteration of scale color and delay of arrangement formation. Takayama E, et al. **Dev Growth Differ** 1997 Feb;39(1):23-31

METABOLISM

Effects of destruxins, cyclic depsipeptide mycotoxins, on calcium balance and phosphorylation of intracellular proteins in lepidopteran cell lines. Dumas C, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Jul;114(3):213-9

Identification of PBAN-like peptides in the brain-subesophageal ganglion complex of lepidoptera using Western-blotting. Jacquin-Joly E, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):209-16

PARASITOLOGY

Host haemocyte inactivation by an insect parasitoid: transient expression of a polydnavirus gene. Asgari S, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2653-62

Instar susceptibility of the monarch butterfly (Danaus plexippus) to the neogregarine parasite, Ophryocystis elektroscirrha. Leong KLH, et al. **J Invertebr Pathol** 1997 Jan;69(1):79-83

PHYSIOLOGY

What initiates speciation in passion-vine butterflies? McMillan WO, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8628-33

BUTTOCKS

Leg band-limited latex dermatitis from a common method of underwear construction [letter] Rye B, et al. **Arch Dermatol** 1997 Apr;133(4):536-7

Malignant metastatic eccrine poroma. Proposal for a new therapeutic protocol. Barzi AS, et al. **Dermatol Surg** 1997 Apr;23(4):267-72 (30 ref.)

Piriformis syndrome mimics sural nerve entrapment [letter] Murphy BP. **J Am Podiatr Med Assoc** 1997 Apr;87(4):183-4

A case of ectopic anus localized on the right gluteus. Aritürk E, et al. **J Pediatr Surg** 1996 Oct;31(10):1451-3

Sciatica as the first manifestation of a leiomyosarcoma of the buttock. Benyahya E, et al. **Rev Rhum Engl Ed** 1997 Feb;64(2):135-7

[A rare form of pelvic floor hernia. Combined (intra- and extraperitoneal) monolateral, trans-levator, posterior perineal hernia] Hehl AJ, et al. **Chirurg** 1996 Dec; 67(12):1270-2 (Eng. Abstr.) **(Ger)**

[Aggressive fibromatosis] Kolokythas O, et al. **Rontgenpraxis** 1996 Nov;49(11):279-80 **(Ger)**

ABNORMALITIES

Carbohydrate deficient glycoprotein (CDG) syndrome type I. Jaeken J, et al. **J Med Genet** 1997 Jan;34(1):73-6

ANATOMY & HISTOLOGY

Bilateral gluteal compartment syndrome. Bleicher RJ, et al. **J Trauma** 1997 Jan;42(1):118-22 (33 ref.)

New technique for piriformis muscle injection using a nerve stimulator [letter] Hanania M. **Reg Anesth** 1997 Mar-Apr; 22(2):200-2

Anatomic basis of the transgluteal approach to the hip-joint by anterior hemimyotomy of the gluteus medius. Duparc F, et al. **Surg Radiol Anat** 1997;19(2):61-7

BLOOD SUPPLY

Gluteal infarction as a complication of aortofemoral bypass grafting. Ho PR, et al. **Ann Plast Surg** 1996 Dec;37(6):645-9

False aneurysm of the inferior gluteal artery following penetrating buttock trauma: case report and review of the literature. Holland AJ, et al. **Cardiovasc Surg** 1996 Dec; 4(6):841-3

Non-surgical treatment of aneurysms of bilateral persistent sciatic artery. Sogaro F, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):503-5

Pseudoaneurysm of the superior gluteal arterial system: an unusual cause of pain after a pelvic fracture. Stephen DJ. **J Trauma** 1997 Jul;43(1):146-9

Buttock claudication from isolated stenosis of the gluteal artery. Batt M, et al. **J Vasc Surg** 1997 Mar;25(3):584-6

Comparison of secondary ischemic tolerance between pedicled and free island buttock skin flaps in the pig. He W, et al. **Plast Reconstr Surg** 1997 Jul;100(1):72-81; discussion 82-3

Superior gluteal artery injury during iliac bone grafting for spinal fusion. A case report and literature review. Lim EV, et al. **Spine** 1996 Oct 15;21(20):2376-8 (10 ref.)

Superior gluteal artery injury secondary to posterior iliac crest bone graft harvesting. A surgical technique to control hemorrhage. Shin AY, et al. **Spine** 1996 Jun 1;21(11):1371-4

INJURIES

False aneurysm of the inferior gluteal artery following penetrating buttock trauma: case report and review of the literature. Holland AJ, et al. **Cardiovasc Surg** 1996 Dec; 4(6):841-3

Gunshot wounds to the buttocks: predicting the need for operation. Velmahos GC, et al. **Dis Colon Rectum** 1997 Mar;40(3):307-11

Vertical transmission of the hip rolls due to wearing of TLSO for scoliosis. Korovessis P, et al. **J Spinal Disord** 1996 Aug; 9(4):326-33

Sciatic pain and piriformis syndrome. Douglas S. **Nurse Pract** 1997 May;22(5):166-8, 170, 172 passim (18 ref.)

INNERVATION

Late superior gluteal nerve palsy following posterior fracture-dislocation of the hip. Güleç A, et al. **Acta Orthop Belg** 1996 Dec;62(4):218-21

Damage to the superior gluteal nerve after the Hardinge approach to the hip. Ramesh M, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):903-6

PATHOLOGY

Medial telangiectatic nevi: not always acral but sometimes sacral [editorial; comment] Happle R. **Dermatology** 1996; 192(4):299-300. Comment on: Dermatology 1996;192(4):301-6.

Sacral medial telangiectatic vascular nevus: a study of 43 children [see comments] Patrizi A, et al. **Dermatology** 1996; 192(4):301-6. Comment in: Dermatology 1996;192(4):299-300.

RADIONUCLIDE IMAGING

Extrarenal accumulation of Tc-99m DTPA in a gluteal abscess. Prakash R. **Clin Nucl Med** 1997 May;22(5):324-5

SURGERY

Deep planed torso-abdominoplasty combined with buttocks pexy. Gonzalez M, et al. **Aesthetic Plast Surg** 1997 Jul-Aug; 21(4):245-53

Fat grafting of the buttocks and lower limbs. Pereira LH, et al. **Aesthetic Plast Surg** 1996 Sep-Oct;20(5):409-16

Mycobacterium avium infection in a patient with acquired immunodeficiency syndrome and a solid silicone buttock implant. Kaplan A, et al. **Ann Plast Surg** 1996 Oct; 37(4):411-4

Gluteus maximus musculocutaneous flap for the treatment of recalcitrant pilonidal disease [see comments] Rosen W, et al. **Ann Plast Surg** 1996 Sep;37(3):293-7. Comment in: Ann Plast Surg 1997 Mar;38(3):304-5.

Contour restoration of large defects of the trunk and extremities. Kind GM, et al. **Clin Plast Surg** 1996 Oct; 23(4):731-6

Bilateral gluteoplasty for fecal incontinence. Devesa JM, et al. **Dis Colon Rectum** 1997 Aug;40(8):883-8

Saline injection into the perirectal space to assist transgluteal drainage of deep pelvic abscesses. Shah H, et al. **J Vasc Interv Radiol** 1997 Jan-Feb;8(1 Pt 1):119-21

ULTRASONOGRAPHY

Validation of a technique for accurate fine-wire electrode placement into posterior gluteus medius using real-time ultrasound guidance. Hodges PW, et al. **Electromyogr Clin Neurophysiol** 1997 Jan-Feb;37(1):39-47

BUTYL METHYL KETONES see **HEXANONES**

BUTYL PHTHALATE see **DIBUTYL PHTHALATE**

BUTYLAMINES

ANALYSIS

Ion chromatography of amylamine and tert.-butylamine in pharmaceuticals. Jagota NK, et al. **J Chromatogr A** 1996 Jul 19;739(1-2):343-9

CHEMISTRY

N-[2-[(substituted chroman-8-yl)oxy]ethyl]-4-(4-methoxyphenyl) butylamines: synthesis and wide range of antagonism at the human 5-HT1A receptor. Yasunaga T, et al. **J Med Chem** 1997 Apr 11;40(8):1252-7

METABOLISM

A microgonotropen branched decaaza decabutylamine and its DNA and DNA/transcription factor interactions. Bruice TC, et al. **Bioorg Med Chem** 1997 Apr;5(4):685-92

Cloning, analysis, and overexpression of the gene encoding isobutylamine N-hydroxylase from the valanimycin producer, Streptomyces viridifaciens. Parry RJ, et al. **J Bacteriol** 1997 Jan;179(2):409-16

PHARMACOLOGY

L-Deprenyl and MDL72974 do not improve the recovery of dopaminergic cells following systemic administration of MPTP in mouse. Thiffault C, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):238-44

Hydroxyl and peroxyl radical trapping by the monoamine oxidase-B inhibitors deprenyl and MDL 72,974A: implications for protection of biological substrates. Thomas CE, et al. **Free Radic Biol Med** 1997;22(4):733-7

Cardiac electrophysiological actions of NS-21 and its active metabolite, RCC-36, compared with terodiline. Hayashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):651-8

Inhibitory effects of NS-21, a novel drug for urinary incontinence, and its active metabolite, RCC-36, on L-type calcium currents in isolated guinea pig detrusor smooth muscle cells. Hayashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):659-66

URINE

HPLC determination of ITF 188 and its metabolite ITF 1078 in urine after intranasal administration of new heparin salt ITF 1300 to dogs. Monzani MV, et al. **Boll Chim Farm** 1997 Mar;136(3):272-4

BUTYLATED HYDROXYANISOLE

ADMINISTRATION & DOSAGE

Increased longevity, reduced fecundity, and delayed

development in fruitfly (Zaprionus paravittiger) fed on butylated hydroxy anisole. Bains JS, et al. **Proc Soc Exp Biol Med** 1997 Jul;215(3):237–42

Effects of co–administration of butylated hydroxytoluene, butylated hydroxyanisole and flavonoids on the activation of mutagens and drug–metabolizing enzymes in mice. Sun B, et al. **Toxicology** 1997 Sep 26;122(1–2):61–72

CHEMISTRY

Hydroxylamine and phenol–induced formation of methemoglobin and free radical intermediates in erythrocytes. Stolze K, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1821–9

Formation of 8–hydroxydeoxyguanosine in calf thymus DNA treated with tert–butylhydroquinone, a major metabolite of butylated hydroxyanisole. Nagai F, et al. **Toxicol Lett** 1996 Dec 16;89(2):163–7

PHARMACOLOGY

Effect of dietary 2(3)–tert–butyl–4–hydroxyanisole on the metabolism and action of estradiol and estrone in female CD–1 mice. Zhu BT, et al. **Cancer Res** 1997 Jun 15; 57(12):2419–27

Butylated hydroxyanisole blocks the inhibitory effects of tumor necrosis factor–alpha on collagen production in human dermal fibroblasts. Taniguchi S, et al. **J Dermatol Sci** 1996 Apr;12(1):44–9

Pharmacokinetic–toxicodynamic relationships of adriamycin in rat: prediction of butylated hydroxyanisole–mediated reduction in anthracycline cardiotoxicity. Vora J, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1264–9

Protective effect of butylated hydroxyanisole on adriamycin–induced cardiotoxicity. Vora J, et al. **J Pharm Pharmacol** 1996 Sep;48(9):940–4

THERAPEUTIC USE

Pigment cholelithiasis induced by vitamin A and its prevention by butylated hydroxytoluene. Cardenas R, et al. **Arch Med Res** 1996 Spring;27(1):71–5

TOXICITY

Promoting activity of 3–tert–butyl–4–hydroxyanisole (BHA) in BALB/3T3 cell transformation. Sakai A, et al. **Cancer Lett** 1997 May 19;115(2):213–20

Butylated hydroxyanisole mechanistic data and risk assessment: conditional species–specific cytotoxicity, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):137–51 (101 ref.)

BUTYLATED HYDROXYTOLUENE

ADMINISTRATION & DOSAGE

Effects of co–administration of butylated hydroxytoluene, butylated hydroxyanisole and flavonoids on the activation of mutagens and drug–metabolizing enzymes in mice. Sun B, et al. **Toxicology** 1997 Sep 26;122(1–2):61–72

[Importance of toxicological studies in animals for elaboration of pathogenetic therapy of hydrazine intoxication] Baryshnikov II. **Med Tr Prom Ekol** 1997;(6):22–5 (Eng. Abstr.) **(Rus)**

ANALOGS & DERIVATIVES

The antioxidant LY 231617 ameliorates functional and morphological sequelae induced by global ischemia in rats. Block F, et al. **Brain Res** 1995 Oct 2;694(1–2):308–11

Effects of LY231617 and angiotensin IV on ischemia–induced deficits in circular water maze and passive avoidance performance in rats. Wright JW, et al. **Brain Res** 1996 Apr 22;717(1–2):1–11

Induction of sulfated glycoprotein–2 (clusterin) and glial fibrillary acidic protein (GFAP) RNA expression following transient global ischemia is differentially attenuated by LY231617. May PC, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):145–8

The efficacy of retrograde infusion with LY231617 in a rat middle cerebral artery occlusion model. Inoue N, et al. **Can J Neurol Sci** 1996 Aug;23(3):175–83

Chronic oral toxicity of a synthetic antioxidant, 2,2'-methylenebis(4–ethyl– 6–tert–butylphenol), in rats. Takagi A, et al. **J Appl Toxicol** 1996 Jan–Feb;16(1):15–23

Comparison of two antioxidants for poly(etherurethane urea) in an accelerated in vitro biodegradation system. Schubert MA, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):493–505

Effectiveness of retrograde perfusion of the cerebral vein for attenuating neuronal injury after transient ischemia following reperfusion in the rat brain. Inoue N, et al. **Neurol Med Chir (Tokyo)** 1997 Mar;37(3):243–9

CHEMISTRY

Alkylation of 2'–deoxynucleosides and DNA by quinone methides derived from 2,6–di–tert–butyl–4–methylphenol. Lewis MA, et al. **Chem Res Toxicol** 1996 Dec;9(8):1368–74

Reactivity of butylated hydroxytoluene. Lambert CR, et al. **Free Radic Biol Med** 1996;21(3):395–400

METABOLISM

Electronic and structural requirements for metabolic activation of butylated hydroxytoluene analogs to their quinone methides, intermediates responsible for lung toxicity in mice. Yamamoto K, et al. **Biol Pharm Bull** 1997 May;20(5):571–3

PHARMACOLOGY

Effect of butylhydroxytoluene and related compounds on permeability of the inner mitochondrial membrane. Gudz T, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):143–56

Inhibitory effects of selenium, vitamin A and butylated hydroxytoluene on growth of human maxillary cancer cells in vitro. Yamamoto Y, et al. **Auris Nasus Larynx** 1996; 23:91–7

The crucial antioxidant action of schisandrin B in protecting against carbon tetrachloride hepatotoxicity in mice: a comparative study with butylated hydroxytoluene. Ip SP, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1687–93

Modulation of cholestane–3 beta,5 alpha,6 beta–triol toxicity by butylated hydroxytoluene, alpha–tocopherol and beta–carotene in newborn rat kidney cells in vitro. Wilson AM, et al. **Br J Nutr** 1997 Sep;78(3):479–92

Comparison of the effect of low– and high–dose dietary butylated hydroxytoluene on microsome–mediated aflatoxin B1–DNA binding. Allameh A. **Cancer Lett** 1997 Mar 19;114(1–2):217–20

Inhibitory effects of selenium, vitamin A and butylated hydroxytoluene on in vitro growth of human tongue cancer cells. Inoue I, et al. **Eur Arch Otorhinolaryngol** 1995; 252(8):509–12

Butylated hydroxytoluene and inorganic phosphate plus Ca2+ increase mitochondrial permeability via mutually exclusive mechanisms. Sokolove PM, et al. **J Bioenerg Biomembr** 1996 Apr;28(2):199–206

The effect of butylated hydroxytoluene on the chromosomal damage induced by bleomycin in Chinese hamster ovary cells. Grillo CA, et al. **Mutat Res** 1997 Apr 14;375(1):83–9

[Binding ability of rat serum albumin during tetrachloromethane intoxication and administration of anti–oxidants, anti–hypoia agents, and actoprotectors] Dubovaia TK, et al. **Biull Eksp Biol Med** 1996 Dec; 122(12):635–7 **(Rus)**

[Evaluation of the level of lipid peroxidation during acute poisoning with organophosphorus pesticide in cats and the effect of antioxidants on their survival] Tarakanov IA, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):625–8 **(Rus)**

THERAPEUTIC USE

Pregnant diabetic rats fed the antioxidant butylated hydroxytoluene show decreased occurrence of malformations in offspring. Eriksson UJ, et al. **Diabetes** 1996 Nov;45(11):1497–502

Nerve function and regeneration in diabetic and galactosaemic rats: antioxidant and metal chelator effects. Love A, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):33–9

[The effect of phenol antioxidants on the development of alloxan diabetes in rats] Bobyreva LE. **Eksp Klin Farmakol** 1997 May–Jun;60(3):51–3 (Eng. Abstr.) **(Rus)**

[Changes in the morphofunctional status of the liver in rats with acute tetrachloromethane poisoning and their correction with antihypoxants, antioxidants and actoprotectors] Dubovaia TK, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):51–4 (Eng. Abstr.) **(Rus)**

[The treatment of pneumonias in influenza using antioxidants] Nagibina MV, et al. **Ter Arkh** 1996;68(11):33–5 (Eng. Abstr.) **(Rus)**

TOXICITY

Butylated hydroxytoluene exposure is necessary to induce lung tumors in BALB mice treated with 3–methylcholanthrene. Malkinson AM, et al. **Cancer Res** 1997 Jul 15;57(14):2832–4

Selective suppression of in vitro T–dependent humoral immunity by synthetic food additive antioxidants. Kim HM, et al. **J Toxicol Sci** 1996 Feb;21(1):41–5

Effect of butylated hydroxytoluene on alpha–tocopherol content in liver and adipose tissue of rats. Simán CM, et al. **Toxicol Lett** 1996 Oct;87(2–3):103–8

BUTYLBIGUANIDE see **BUFORMIN**

BUTYLCYANOACRYLATE see **ENBUCRILATE**

BUTYLENE GLYCOLS see **BUTANEDIOLS**

BUTYLHYDROXYANISOLE see **BUTYLATED HYDROXYANISOLE**

BUTYLHYDROXYBUTYLNITROSAMINE

Lack of involvement of p53 gene mutations in N–methyl–N–nitrosourea–induced bladder tumor progression in N–butyl–N–(4–hydroxybutyl)nitrosamine–treated rats and no suppression by indomethacin. Ozaki M, et al. **Cancer Lett** 1997 May 19;115(2):249–55

Effects of Lentinus edodes, Grifola frondosa and Pleurotus ostreatus administration on cancer outbreak, and activities of macrophages and lymphocytes in mice treated with a carcinogen, N–butyl–N–butanolnitrosoamine. Kurashige S, et al. **Immunopharmacol Immunotoxicol** 1997 May; 19(2):175–83

ADVERSE EFFECTS

Effects of Lentinus edodes, Grifola frondosa and Pleurotus ostreatus administration on cancer outbreak, and activities of macrophages and lymphocytes in mice treated with a carcinogen, N–butyl–N–butanolnitrosoamine. Kurashige S, et al. **Immunopharmacol Immunotoxicol** 1997 May; 19(2):175–83

PHARMACOLOGY

Interstitial stroma and carcinogenesis: ultrastructural observations in the rat bladder treated with N–butyl–N–(4–hydroxybutyl)nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(3):177–81

TOXICITY

Morphological changes in the basement membrane during progression from non–invasive to invasive rat bladder cancer induced by N–butyl–N–(4–hydoxybutyl) nitrosamine. Zhang XH, et al. **Br J Urol** 1997 Mar; 79(3):378–82

Promoting effects of dimethylarsinic acid on N–butyl–N–(4–hydroxybutyl)nitrosamine–induced urinary bladder carcinogenesis in rats. Wanibuchi H, et al. **Carcinogenesis** 1996 Nov;17(11):2435–9

Quantitative trait loci associated with promoting effects of sodium L–ascorbate on two–stage bladder carcinogenesis in rats. Kamoto T, et al. **Jpn J Cancer Res** 1997 Jul; 88(7):633–8

Strain differences in sensitivity to the promoting effect of sodium L–ascorbate in a two–stage rat urinary bladder carcinogenesis model. Murai T, et al. **Jpn J Cancer Res** 1997 Mar;88(3):245–53

Promoting effect of unilateral nephrectomy on urinary bladder carcinogenesis in rats. Saikawa S, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1121–4

Absence of promoting potential of bracken fern (Pteridium aquilinum) in rat urinary bladder carcinogenesis induced by N–butyl–N–(4–hydroxybutyl)–nitrosamine and uracil. de Oliveira ML, et al. **Teratog Carcinog Mutagen** 1995; 15(4):191–9

Promoting effect of monosodium aspartate, but not glycine, on renal pelvis and urinary bladder carcinogenesis in rat induced by N–butyl–N–(4–hydroxybutyl)nitrosamine. Kitamura M, et al. **Toxicol Pathol** 1996 Sep–Oct; 24(5):573–9

Localization of zinc and metallothionein in the rat bladder epithelium during carcinogenesis induced by N–butyl–N–(4–hydroxybutyl) nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(5):279–83

BUTYLHYDROXYTOLUENE see **BUTYLATED HYDROXYTOLUENE**

BUTYLMETHYL KETONE see **METHYL N–BUTYL KETONE**

BUTYLSCOPOLAMMONIUM BROMIDE

ADMINISTRATION & DOSAGE

Premedication with intravenous antispasmodic speeds colonoscope insertion. Saunders BP, et al. **Gastrointest Endosc** 1996 Mar;43(3):209–11

DIAGNOSTIC USE

The value of hyoscine butylbromide in abdominal MR imaging with and without oral magnetic particles. Laniado M, et al. **Abdom Imaging** 1997 Jul–Aug;22(4):381–8

[Usefulness of pirenzepine in the study of the upper digestive tract and the large intestine with double contrast media: comparison with scopolamine methylbromide] Braccini G, et al. **Radiol Med (Torino)** 1996 Dec;92(6):733–7 (Eng. Abstr.) **(Ita)**

PHARMACOLOGY

The effects of the pharmacological manipulation of postoperative intestinal motility on colonic anastomoses. An experimental study in a rat model. García–Olmo D, et al. **Int J Colorectal Dis** 1997;12(2):73–7

THERAPEUTIC USE

A comparison of N–butylscopolammonium bromide and butorphanol tartrate for analgesia using a balloon model of abdominal pain in ponies. Boatwright CE, et al. **Can J Vet Res** 1996 Jan;60(1):65–8

[Current potentialities of Buscopan in clinical practice] Sheptulin AA. **Klin Med (Mosk)** 1997;75(8):55–7 (31 ref.) **(Rus)**

BUTYRATES

ANTAGONISTS & INHIBITORS

Deoxycholate inhibits in vivo butyrate–mediated BrDU

labeling of the colonic crypt. Velázquez OC, et al. **J Surg Res** 1997 May;69(2):344–8

BLOOD

Enantioselective determination of FCE 28833, a new potential antiischemic agent, in gerbil plasma using column switching HPLC with UV detection. Breda M, et al. **Chirality** 1997;9(2):133–8

Covalent binding of a bucillamine derivative with albumin in sera from healthy subjects and patients with various diseases. Narazaki R, et al. **Pharm Res** 1997 Mar;14(3):351–3

CHEMISTRY

Isomerization of n- and i-butyrate in anaerobic methanogenic systems. Angelidaki I, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):285–91

METABOLISM

Isomerization of n- and i-butyrate in anaerobic methanogenic systems. Angelidaki I, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):285–91

Mucosal enzyme activity for butyrate oxidation; no defect in patients with ulcerative colitis. Allan ES, et al. **Gut** 1996 Jun;38(6):886–93

Harziphilone and fleephilone, two new HIV REV/RRE binding inhibitors produced by Trichoderma harzianum. Qian-Cutrone J, et al. **J Antibiot (Tokyo)** 1996 Oct; 49(10):990–7

Acarbose enhances human colonic butyrate production. Weaver GA, et al. **J Nutr** 1997 May;127(5):717–23

Fatty acids and eicosanoids regulate gene expression through direct interactions with peroxisome proliferator-activated receptors alpha and gamma. Kliewer SA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4318–23

PHARMACOLOGY

28833, a selective kynurenine 3-hydroxylase inhibitor. Effects on the kynurenine pathway metabolites in the gerbil. Cini M, et al. **Adv Exp Med Biol** 1996;398:535–8

Kynurenic acid–enhancing and anti–ischemic effects of the potent kynurenine 3-hydroxylase inhibitor FCE 28833 in rodents. Speciale C, et al. **Adv Exp Med Biol** 1996; 398:221–7

Butyrate and colonocytes: Bax to the front. Stollman NH, et al. **Am J Gastroenterol** 1997 Sep;92(9):1573–4

Transcriptional control of triglyceride metabolism: fibrates and fatty acids change the expression of the LPL and apo C–III genes by activating the nuclear receptor PPAR. Auwerx J, et al. **Atherosclerosis** 1996 Jul;124 Suppl:S29–37 (59 ref.)

Antagonistic effects of sulfide and butyrate on proliferation of colonic mucosa: a potential role for these agents in the pathogenesis of ulcerative colitis. Christl SU, et al. **Dig Dis Sci** 1996 Dec;41(12):2477–81

Butyrate, aspirin and colorectal cancer [see comments] Csordas A. **Eur J Cancer Prev** 1996 Aug;5(4):221–31 (68 ref.). Comment in: Eur J Cancer Prev 1996 Aug;5(4):219–20.

(R,S)–3,4–dichlorobenzoylalanine (FCE 28833A) causes a large and persistent increase in brain kynurenic acid levels in rats. Speciale C, et al. **Eur J Pharmacol** 1996 Nov 21; 315(3):263–7

Esterase inhibitors diminish the modulation of gene expression by butyric acid derivative, pivaloyloxymethyl butyrate (AN–9). Rabizadeh E, et al. **Isr J Med Sci** 1996 Dec;32(12):1186–91

Effect of the cytostatic butyric acid pro–drug, pivaloyloxymethyl butyrate, on the tumorigenicity of cancer cells. Aviram A, et al. **J Cancer Res Clin Oncol** 1997;123(5):267–71

Butyric acid and pivaloyloxymethyl butyrate, AN–9, a novel butyric acid derivative, induce apoptosis in HL–60 cells. Zimra Y, et al. **J Cancer Res Clin Oncol** 1997;123(3):152–60

Antinociceptive profile of 3–alpha–tropanyl–(2–Cl)–acid phenoxybutyrate (SM–21): a novel analgesic with a presynaptic cholinergic mechanism of action. Ghelardini C, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):430–9

Regulation of alpha 2A–adrenergic receptor expression in the human colon carcinoma cell line HT29: SCFA–induced enterocytic differentiation results in an inhibition of alpha 2C10 gene transcription. Devedjian JC, et al. **Proc Assoc Am Physicians** 1996 Jul;108(4):334–44

Amplification of recombinant adenoviral transgene products occurs by inhibition of histone deacetylase. Dion LD, et al. **Virology** 1997 May 12;231(2):201–9

THERAPEUTIC USE

Effect of L–glutamine and n–butyrate on the restitution of rat colonic mucosa after acid induced injury. Scheppach W, et al. **Gut** 1996 Jun;38(6):878–85

TOXICITY

Pathology of perbutylated–N–butyl–1–deoxynojiromycin (an alpha–glucosidase–1 inhibitor) in Sprague–Dawley rats. Khan KN, et al. **Toxicol Pathol** 1996 Sep–Oct;24(5):531–8

BUTYRIBACTERIUM see **EUBACTERIUM**

BUTYRIC ACIDS

ADMINISTRATION & DOSAGE

Treatment of distal ulcerative colitis with short–chain fatty acid enemas. A placebo–controlled trial. German–Austrian SCFA Study Group. Scheppach W. **Dig Dis Sci** 1996 Nov; 41(11):2254–9

Butyrate enemas in experimental colitis and protection against large bowel cancer in a rat model. D'Argenio G, et al. **Gastroenterology** 1996 Jun;110(6):1727–34

ANALYSIS

Short–chain carboxylic acid concentration in human gingival crevicular fluid. Niederman R, et al. **J Dent Res** 1997 Jan; 76(1):575–9

ANTAGONISTS & INHIBITORS

Effect of HIV type 1 Tat protein on butyric acid–induced differentiation in a hematopoietic progenitor cell line. Mondal D, et al. **AIDS Res Hum Retroviruses** 1996 Nov 1;12(16):1529–36

AML1a but not AML1b inhibits erythroid differentiation induced by sodium butyrate and enhances the megakaryocytic differentiation of K562 leukemia cells. Niitsu N, et al. **Cell Growth Differ** 1997 Mar;8(3):319–26

CHEMISTRY

4–(2–Naphthyl)butanoic acid. Dobson AJ, et al. **Acta Crystallogr C** 1996 Dec 15;52 (Pt 12):3083–6

DIAGNOSTIC USE

Carbon–11 labeled ethionine and propionine as tumor detecting agents. Ishiwata K, et al. **Ann Nucl Med** 1997 May;11(2):115–22

ISOLATION & PURIFICATION

Separation of the stereoisomers of the main metabolite of a non–steroidal anti–inflammatory drug, flobufen, by chiral high–performance liquid chromatography. Wsól V, et al. **J Chromatogr B Biomed Appl** 1997 Feb 7;689(1):205–14

METABOLISM

Transport of n–butyrate into human colonic luminal membrane vesicles. Harig JM, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G415–22

Metabolic adaptation of terminal ileal mucosa after construction of an ileoanal pouch. Chapman MA, et al. **Br J Surg** 1997 Jan;84(1):71–3

Short–chain carboxylic–acid–stimulated, PMN–mediated gingival inflammation. Niederman R, et al. **Crit Rev Oral Biol Med** 1997;8(3):269–90 (144 ref.)

Key role of alkanoic acids on the spectral properties, activity, and active–site stability of iron–containing nitrile hydratase from Brevibacterium R312. Kopf MA, et al. **Eur J Biochem** 1996 Aug 15;240(1):239–44

Increasing butyrate concentration in the distal colon by accelerating intestinal transit. Lewis SJ, et al. **Gut** 1997 Aug;41(2):245–51

Methionine derivatives diminish sulphide damage to colonocytes--implications for ulcerative colitis. Roediger WE, et al. **Gut** 1996 Jul;39(1):77–81

Effects of the ratio of ruminal propionate to butyrate on milk yield and blood metabolites in dairy cows. Miettinen H, et al. **J Dairy Sci** 1996 May;79(5):851–61

Diet and carcinogen alter luminal butyrate concentration and intracellular pH in isolated rat colonocytes. Zoran DL, et al. **Nutr Cancer** 1997;27(3):222–30

Colonic production of butyrate in patients with previous colonic cancer during long–term treatment with dietary fibre (Plantago ovata seeds). Nordgaard I, et al. **Scand J Gastroenterol** 1996 Oct;31(10):1011–20

PHARMACOLOGY

1H–magnetic resonance spectroscopic observation of cultured malignant cells pharmacologically induced to different phenotypes. Nakai T, et al. **Acad Radiol** 1996 Sep; 3(9):742–50

Effect of short–chain fatty acids on paracellular permeability in Caco–2 intestinal epithelium model. Mariadason JM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G705–12

Anti–influenza virus activities of 4–substituted 2,4–dioxobutanoic acid inhibitors. Hastings JC, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1304–7

Direct inhibition of the expression of cyclin D1 gene by sodium butyrate. Lallemand F, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):163–9

Down–regulation of protein kinase CKII activity by sodium butyrate. Russo GL, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):673–7

Butyrate stimulates cyclin D and p21 and inhibits cyclin–dependent kinase 2 expression in HT–29 colonic epithelial cells. Siavoshian S, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):169–72

Sodium butyrate induces NIH3T3 cells to senescence–like state and enhances promoter activity of p21WAF/CIP1 in p53–independent manner. Xiao H, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):457–60

P52PAI–1 gene expression in butyrate–induced flat revertants of v–ras–transformed rat kidney cells: mechanism of induction and involvement in the morphological response. Higgins PJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):431–7

Apoptotic death in adenocarcinoma cell lines induced by butyrate and other histone deacetylase inhibitors. McBain JA, et al. **Biochem Pharmacol** 1997 May 9;53(9):1357–68

Bezafibrate and clofibric acid are novel inhibitors of phosphatidylcholine synthesis via the methylation of phosphatidylethanolamine. Nishimaki–Mogami T, et al. **Biochim Biophys Acta** 1996 Nov 11;1304(1):11–20

Regulation of neutrophil apoptosis by sodium butyrate. Moulding D, et al. **Biologicals** 1996 Dec;24(4):301–6

Mechanism of butyrate–induced vasorelaxation of rat mesenteric resistance artery. Aaronson PI, et al. **Br J Pharmacol** 1996 Jan;117(2):365–71

Histone hyperacetylating agents stimulate promoter activity of human choline acetyltransferase gene in transfection experiment. Chireux M, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):68–78

Adrenergic differentiation potential in PC12 cells: influence of sodium butyrate and dexamethasone. Ebert SN, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):24–30

Reduction of LAK–sensitivity and changes in antigen expression on hepatoma cells by sodium butyrate. Tada S, et al. **Cancer Biochem Biophys** 1996 Apr;15(3):177–86

Effect of 2–chloro–4–methylthiobutanoic acid in a rapid bioassay for gastric carcinogens. Furihata C, et al. **Cancer Lett** 1996 Nov 12;108(1):129–35

The response of IL–3 dependent B6SUtA bone marrow cells to both erythropoietin and chemical inducers of differentiation. Ishiguro K, et al. **Cancer Lett** 1996 Dec 20;110(1–2):233–41

Deoxycholic acid and SCFA–induced apoptosis in the human tumor cell–line HT–29 and possible mechanisms. Marchetti C, et al. **Cancer Lett** 1997 Mar 19;114(1–2):97–9

Induction of caspase–3 protease activity and apoptosis by butyrate and trichostatin A (inhibitors of histone deacetylase): dependence on protein synthesis and synergy with a mitochondrial/cytochrome c–dependent pathway. Medina V, et al. **Cancer Res** 1997 Sep 1;57(17):3697–707

Bcl–2 deregulation leads to inhibition of sodium butyrate–induced apoptosis in human colorectal carcinoma cells. Mandal M, et al. **Carcinogenesis** 1997 Jan;18(1):229–32

Butyrate can act as a stimulator of growth or inducer of apoptosis in human colonic epithelial cell lines depending on the presence of alternative energy sources. Singh B, et al. **Carcinogenesis** 1997 Jun;18(6):1265–70

Disruption of cell–cell adhesion in the presence of sodium butyrate activates expression of the 92 kDa type IV collagenase in MDCK cells. Fiorino AS, et al. **Cell Biol Int** 1996 Jul;20(7):489–99

The C–terminal Src kinase (Csk) is widely expressed, active in HT–29 cells that contain activated Src, and its expression is downregulated in butyrate–treated SW620 cells. Li S, et al. **Cell Biol Int** 1996 Nov;20(11):723–9

Alterations in pim–1 and c–myc expression associated with sodium butyrate–induced growth factor dependency in autonomous rat Nb2 lymphoma cells. Buckley AR, et al. **Cell Growth Differ** 1996 Dec;7(12):1713–21

Cellular growth state differentially regulates enterocyte gene expression in butyrate–treated HT–29 cells. Hodin RA, et al. **Cell Growth Differ** 1996 May;7(5):647–53

Bcl–2 expression regulates sodium butyrate–induced apoptosis in human MCF–7 breast cancer cells. Mandal M, et al. **Cell Growth Differ** 1996 Mar;7(3):311–8

Withdrawal of butyrate from the colonic mucosa triggers "mass apoptosis" primarily in the G0/G1 phase of the cell cycle. Luciano L, et al. **Cell Tissue Res** 1996 Oct; 286(1):81–92

High–level expression of rat D1A dopamine receptor cDNA in mouse fibroblast LTK– cells by n–butyrate. Horiuchi A, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):150–4

Inhibition of IL–8 gene expression in Caco–2 cells by compounds which induce histone hyperacetylation. Huang N, et al. **Cytokine** 1997 Jan;9(1):27–36

Regulation of human colonic cell line proliferation and phenotype by sodium butyrate. Basson MD, et al. **Dig Dis Sci** 1996 Oct;41(10):1989–93

Differentiation of BCS–TC2 human colon adenocarcinoma cells by sodium butyrate: increase in 5'–nucleotidase activity. Navarro JM, et al. **Eur J Clin Invest** 1997 Jul; 27(7):620–8

Butyrate enhances major histocompatibility complex class I, HLA–DR and ICAM–1 antigen expression on differentiated human intestinal epithelial cells. Siavoshian S, et al. **Eur J Clin Invest** 1996 Sep;26(9):803–10

Sodium butyrate inhibits the expression of the human lecithin: cholesterol acyltransferase gene in HepG2 cells by a post–transcriptional mechanism. Skretting G, et al. **FEBS Lett** 1997 Mar 3;404(1):105–10

Butyrate acts as a survival factor for colonic epithelial cells: further fuel for the in vivo versus in vitro debate [editorial] [see comments] Hague A, et al. **Gastroenterology** 1997 Mar; 112(3):1036–40. Comment in: Gastroenterology 1997 Mar;112(3):875–81.

Lack of butyrate is associated with induction of Bax and subsequent apoptosis in the proximal colon of guinea pig [comment] Hass R, et al. **Gastroenterology** 1997 Mar; 112(3):875–81. Comment on: Gastroenterology 1997 Mar;112(3):1036–40.

Different effects of cyclic AMP and butyrate on eosinophilic differentiation, apoptosis and bcl–2 expression of a human

eosinophilic leukemia cell line, EoL-1. Tai G, et al. **Hematol Oncol** 1996 Dec;14(4):181-92

Butyric acid-induced apoptosis of murine thymocytes, splenic T cells, and human Jurkat T cells. Kurita-Ochiai T, et al. **Infect Immun** 1997 Jan;65(1):35-41

Esterase inhibitors diminish the modulation of gene expression by butyric acid derivative, pivaloyloxymethyl butyrate (AN-9). Rabizadeh E, et al. **Isr J Med Sci** 1996 Dec;32(12):1186-91

Histone hyperacetylation plays a role in augmentation of IL-4-induced IgE production in LPS-stimulated murine B-lymphocytes by sodium butyrate. Yamamoto I, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1056-61

The effect of three alpha-keto acids on 3-mercaptopyruvate sulfurtransferase activity. Porter DW, et al. **J Biochem Toxicol** 1996;11(1):45-50

The effects of sodium butyrate on transcription are mediated through activation of a protein phosphatase. Cuisset L, et al. **J Biol Chem** 1997 Sep 26;272(39):24148-53

Butyrate activates the WAF1/Cip1 gene promoter through Sp1 sites in a p53-negative human colon cancer cell line. Nakano K, et al. **J Biol Chem** 1997 Aug 29; 272(35):22199-206

Butyric acid and pivaloyloxymethyl butyrate, AN-9, a novel butyric acid derivative, induce apoptosis in HL-60 cells. Zimra Y, et al. **J Cancer Res Clin Oncol** 1997;123(3):152-60

Rapid and sensitive detection of cell-associated HIV-1 in latently infected cell lines and in patient cells using sodium-n-butyrate induction and RT-PCR. Kashanchi F, et al. **J Med Virol** 1997 Jun;52(2):179-89

Effects of sodium butyrate on glucose transporter and glucose-phosphorylating enzyme gene expression in RINm5F insulinoma cells. Tiedge M, et al. **J Mol Endocrinol** 1996 Aug;17(1):19-26

Butyrate alters activity of specific cAMP-receptor proteins in a transgenic mouse colonic cell line. Aukema HM, et al. **J Nutr** 1997 Jan;127(1):18-24

Bacterial metabolites sodium butyrate and propionate inhibit epithelial cell growth in vitro. Pöllänen MT, et al. **J Periodontal Res** 1997 Apr;32(3):326-34

The herpes simplex virus type 1 latency-associated transcript promoter is activated through Ras and Raf by nerve growth factor and sodium butyrate in PC12 cells. Frazier DP, et al. **J Virol** 1996 Nov;70(11):7424-32

Identification of cis-acting sequences in the promoter of the herpes simplex virus type 1 latency-associated transcripts required for activation by nerve growth factor and sodium butyrate in PC12 cells. Frazier DP, et al. **J Virol** 1996 Nov; 70(11):7433-44

Dose-response effect of butyrate [letter; comment] Napolitano LM. **JPEN J Parenter Enteral Nutr** 1997 May-Jun;21(3):177. Comment on: JPEN J Parenter Enteral Nutr 1996 Jul-Aug;20(4):243-50.

In vivo crypt surface hyperproliferation is decreased by butyrate and increased by deoxycholate in normal rat colon: associated in vivo effects on c-Fos and c-Jun expression [published erratum appears in JPEN J Parenter Enteral Nutr 1996 Nov-Dec;20(6):428] [see comments] Velázquez OC, et al. **JPEN J Parenter Enteral Nutr** 1996 Jul-Aug;20(4):243-50. Comment in: JPEN J Parenter Enteral Nutr 1997 May-Jun;21(3):177.

Time-course of butyric acid-induced differentiation in human K562 leukemic cell line: rapid increase in gamma-globin, porphobilinogen deaminase and NF-E2 mRNA levels. Chénais B, et al. **Leukemia** 1997 Sep; 11(9):1575-9

Expression of fatty acyl-CoA binding proteins in colon cells: response to butyrate and transformation. Gossett RE, et al. **Lipids** 1997 Jun;32(6):577-85

Altered phospholipid metabolism in sodium butyrate-induced differentiation of C6 glioma cells. Sun SH, et al. **Lipids** 1997 Mar;32(3):273-82

Importance of glycolipid synthesis for butyric acid-induced sensitization to shiga toxin and intracellular sorting of toxin in A431 cells. Sandvig K, et al. **Mol Biol Cell** 1996 Sep; 7(9):1391-404

Modulation of glutathione level during butyrate-induced differentiation in human colon derived HT-29 cells. Benard O, et al. **Mol Cell Biochem** 1997 May;170(1-2):109-14

Sodium butyrate decreases histamine-stimulated calcium mobilization in C6 glioma cells. Ou HC, et al. **Neuroreport** 1997 Apr 14;8(6):1375-8

Differential effects of butyrate and dibutyryl cAMP on mRNA levels of muscarinic acetylcholine receptor subtypes expressed in neurohybrid cell lines. Fukamauchi F, et al. **Neurosci Lett** 1996 Jul 5;212(1):49-52

Decursinol angelate: a cytotoxic and protein kinase C activating agent from the root of Angelica gigas [letter] Ahn KS, et al. **Planta Med** 1997 Aug;63(4):360-1

Reactivation of silenced, virally transduced genes by inhibitors of histone deacetylase. Chen WY, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5798-803

The role of butyrate in human colonic epithelial cells: an energy source or inducer of differentiation and apoptosis? Hague A, et al. **Proc Nutr Soc** 1996 Nov;55(3):937-43 (42 ref.)

Transient transcriptional activation of gastrin during sodium butyrate-induced differentiation of islet cells. Simon B, et al. **Regul Pept** 1997 Jun 18;70(2-3):143-8

Induction of alloantigen-specific hyporesponsiveness in vitro by n-butyrate: antagonistic effect of cyclosporin A. Böhmig GA, et al. **Transpl Int** 1996;9 Suppl 1:S318-22

Nicotinamide and sodium butyrate for the induction of fetal porcine beta-cell differentiation prior to transplantation. Otonkoski T, et al. **Transplant Proc** 1997 Jun;29(4):2045

Differentiation of pancreatic carcinoma induced by retinoic acid or sodium butyrate: a morphological and molecular analysis of four cell lines. Egawa N, et al. **Virchows Arch** 1996 Sep;429(1):59-68

THERAPEUTIC USE

Treatment of left-sided ulcerative colitis with butyrate enemas: a controlled trial. Steinhart AH, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):729-36

Pharmacological profile of the novel potent antirheumatic 4-(2',4'-difluorobiphenyl-4-yl)-2-methyl-4-oxobutanoic acid. Panajotova V, et al. **Arzneimittelforschung** 1997 May; 47(5):648-52

Intravenous butyrate and healing of colonic anastomoses in the rat. Rolandelli RH, et al. **Dis Colon Rectum** 1997 Jan; 40(1):67-70

Short-chain fatty acids in the treatment of radiation proctitis: a randomized, double-blind, placebo-controlled, cross-over pilot trial. Talley NA, et al. **Dis Colon Rectum** 1997 Sep;40(9):1046-50

Cows' milk fat components as potential anticarcinogenic agents. Parodi PW. **J Nutr** 1997 Jun;127(6):1055-60 (71 ref.)

TOXICITY

Gastric carcinogenesis: 2-chloro-4-methylthiobutanoic acid, a novel mutagen in salted, pickled Sanma hiraki fish, or similarly treated methionine. Chen W, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):58-66

Enhanced apoptosis in transformed human lung fibroblasts after exposure to sodium butyrate. Thomas GL, et al. **In Vitro Cell Dev Biol Anim** 1996 Sep;32(8):505-13

URINE

Weight loss, the gut and the inflammatory response in aids patients. Stein TP, et al. **Cytokine** 1997 Feb;9(2):143-7

4-BUTYROLACTONE

ANALOGS & DERIVATIVES

Optical resolution of pantolactone by a novel fungal enzyme, lactonohydrolase. Shimizu S, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:650-8

Census and consensus in bacterial ecosystems: the LuxR-LuxI family of quorum-sensing transcriptional regulators. Fuqua C, et al. **Annu Rev Microbiol** 1996; 50:727-51 (106 ref.)

Antitumor effects of butyrolactone I, a selective cdc2 kinase inhibitor, on human lung cancer cell lines. Nishio K, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3387-95

In vitro susceptibility of Helicobacter pylori to protolichesterinic acid from the lichen Cetraria islandica. Ingolfsdottir K, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):215-7

Partitioning of a-factor analogues into membranes: analysis of binding and importance for biological activity. Khouri O, et al. **Biochemistry** 1996 Nov 19;35(46):14553-60

4-deoxyannomontacin and (2,4-cis and trans)-annomontacinone, new bioactive mono-tetrahydrofuran annonaceous acetogenins from Goniothalamus giganteus. Alali F, et al. **Bioorg Med Chem** 1997 Mar;5(3):549-55

Additional bioactive annonaceous acetogenins from Asimina triloba (Annonaceae). He K, et al. **Bioorg Med Chem** 1997 Mar;5(3):501-6

Applying Mosher's method to acetogenins bearing vicinal diols. The absolute configurations of muricatetrocin C and rollidecins A and B, new bioactive acetogenins from Rollinia mucosa. Shi G, et al. **Bioorg Med Chem** 1996 Aug; 4(8):1281-6

p53-independent induction of apoptosis by cyclin-dependent kinase inhibition. Shibata Y, et al. **Cell Growth Differ** 1996 Jul;7(7):887-91

Synthesis and pharmacological study of some new beta-(dialkylaminomethyl)- gamma-butyrolactones and their tetrahydrofuran analogues. Foscolos GB, et al. **Farmaco** 1996 Jan;51(1):19-26

Evidence of autoinducer activity in naturally occurring biofilms. McLean RJ, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):259-63

Expression of the Streptomyces coelicolor A3(2) ptpA gene encoding a phosphotyrosine protein phosphatase leads to overproduction of secondary metabolites in S. lividans. Umeyama T, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2-3):177-84

Eukaryotic interference with homoserine lactone-mediated prokaryotic signalling. Givskov M, et al. **J Bacteriol** 1996 Nov;178(22):6618-22

Quorum sensing in Vibrio fischeri: evidence that S-adenosylmethionine is the amino acid substrate for autoinducer synthesis. Hanzelka BL, et al. **J Bacteriol** 1996 Sep;178(17):5291-4

Quorum sensing in Aeromonas hydrophila and Aeromonas salmonicida: identification of the LuxRI homologs AhyRI and AsaRI and their cognate N-acylhomoserine lactone signal molecules. Swift S, et al. **J Bacteriol** 1997 Sep; 179(17):5271-81

Cloning and characterization of the gene (farA) encoding the receptor for an extracellular regulatory factor (IM-2) from Streptomyces sp. strain FRI-5. Waki M, et al. **J Bacteriol** 1997 Aug;179(16):5131-7

Structure-cytoprotective activity relationship of simple molecules containing an alpha,beta-unsaturated carbonyl system. Rodríguez AM, et al. **J Med Chem** 1997 Jun 6; 40(12):1827-34

Screening for Annonaceous acetogenins in bioactive plant extracts by liquid chromatography/mass spectrometry. Gu ZM, et al. **J Nat Prod** 1997 Mar;60(3):242-8

Squamotacin: an annonaceous acetogenin with cytotoxic selectivity for the human prostate tumor cell line (PC-3). Hopp DC, et al. **J Nat Prod** 1996 Feb;59(2):97-9

Five novel mono-tetrahydrofuran ring acetogenins from the seeds of Annona muricata. Rieser MJ, et al. **J Nat Prod** 1996 Feb;59(2):100-8

Chlorinated annonaceous acetogenins and their bioactivities. Ye Q, et al. **J Nat Prod** 1996 Oct;59(10):994-6

Five new monotetrahydrofuran ring acetogenins from the leaves of Annona muricata. Zeng L, et al. **J Nat Prod** 1996 Nov;59(11):1035-42

Voltage-dependent calcium channels as targets for convulsant and anticonvulsant alkyl-substituted thiobutyrolactones. Gross RA, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):686-94

Attenuation of acute lung injury caused by hind-limb ischemia-reperfusion injury by butyrolactone anti-inflammatory agent FL1003. Cohen SM, et al. **J Trauma** 1997 Aug;43(2):247-52; discussion 252

A Streptomyces griseus gene (sgaA) suppresses the growth disturbance caused by high osmolality and a high concentration of A-factor during early growth. Ando N, et al. **Microbiology** 1997 Aug;143 (Pt 8):2715-23

Autoinducer-independent mutants of the LuxR transcriptional activator exhibit differential effects on the two lux promoters of Vibrio fischeri. Sitnikov DM, et al. **Mol Gen Genet** 1996 Oct 16;252(5):622-5

Involvement of N-acyl-L-hormoserine lactone autoinducers in controlling the multicellular behaviour of Serratia liquefaciens. Eberl L, et al. **Mol Microbiol** 1996 Apr; 20(1):127-36

The global activator GacA of Pseudomonas aeruginosa PAO positively controls the production of the autoinducer N-butyryl-homoserine lactone and the formation of the virulence factors pyocyanin, cyanide, and lipase. Reimmann C, et al. **Mol Microbiol** 1997 Apr;24(2):309-19

Physiological comparison of alpha-ethyl-alpha-methyl-gamma-thiobutyrolactone with benzodiazepine and barbiturate modulators of GABAA receptors. Mathews GC, et al. **Neuropharmacology** 1996 Feb;35(2):123-36

Detecting and characterizing N-acyl-homoserine lactone signal molecules by thin-layer chromatography. Shaw PD, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6036-41

The inner workings of a quorum sensing signal generator. Swift S, et al. **Trends Microbiol** 1996 Dec;4(12):463-5; discussion 465-6

[CDK and MMP inhibitors] Okuyama A, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1547-62 (62 ref.) (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Synthesis of bis-gamma-butyrolactones containing conformationally constrained (S)- and (R)-diacylglycerol structures. Lee J, et al. **Bioorg Med Chem** 1996 Aug; 4(8):1299-305

PHARMACOLOGY

Attenuation of acute lung injury caused by hind-limb ischemia-reperfusion injury by butyrolactone anti-inflammatory agent FL1003. Cohen SM, et al. **J Trauma** 1997 Aug;43(2):247-52; discussion 252

In vivo striatal binding of the D1 antagonist SCH 23390 is not modified by changes in dopaminergic transmission. Thibaut F, et al. **Neuropharmacology** 1996 Mar;35(3):267-72

POISONING

Coma and respiratory arrest after exposure to butyrolactone. Higgins TF Jr, et al. **J Emerg Med** 1996 Jul-Aug; 14(4):435-7

Gamma butyrolactone poisoning and its similarities to gamma hydroxybutyric acid: two case reports. Rambourg-Schepens MO, et al. **Vet Hum Toxicol** 1997 Aug;39(4):234-5 (8 ref.)

BUTYROPHENONE ANTIPSYCHOTIC AGENTS see **ANTIPSYCHOTIC AGENTS, BUTYROPHENONE**

BUTYROPHENONE TRANQUILIZERS see **ANTIPSYCHOTIC AGENTS, BUTYROPHENONE**

BUTYROPHENONES

see related **ANTIPSYCHOTIC AGENTS, BUTYROPHENONE**

ADVERSE EFFECTS

[Hypothermia during use of pipamperone] Eikenboom HC, et al. **Ned Tijdschr Geneeskd** 1997 Feb 8;141(6):301-3 (Eng.

Abstr.) **(Dut)**

BLOOD

Determination of timiperone in rat plasma by high-performance liquid chromatography with electrochemical detection. Takayasu T, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):161-5

Liquid chromatographic-thermospray tandem mass spectrometric quantitative analysis of some drugs with hypnotic, sedative and tranquillising properties in whole blood. Verweij AM, et al. **J Chromatogr B Biomed Appl** 1996 Nov 8;686(1):27-34

PHARMACOKINETICS

Studies on the first-pass metabolism of ebastine in rats. Fujii T, et al. **Arzneimittelforschung** 1997 Aug;47(8):949-53

Parametrization by nonlinear regression analysis of the active acid metabolite of ebastine using different weighting methods. Mariño EL, et al. **Int J Clin Pharmacol Ther** 1996 Dec;34(12):546-9

Dopamine receptor binding predicts clinical and pharmacological potencies of antischizophrenic drugs. Creese I, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):223-6

PHARMACOLOGY

A preclinical overview of ebastine. Studies on the pharmacological properties of a novel histamine H1 receptor antagonist. Roberts DJ. **Drugs** 1996;52 Suppl 1:8-14 (9 ref.)

Comparative effects of nonsedating histamine H1 receptor antagonists, ebastine and terfenadine, on human Kv1.5 channels. Valenzuela C, et al. **Eur J Pharmacol** 1997 May 20;326(2-3):257-63

Suppression of mammalian K+ channel family by ebastine. Ko CM, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):233-44

THERAPEUTIC USE

Effect of ebastine on mosquito bites. Reunala T, et al. **Acta Derm Venereol** 1997 Jul;77(4):315-6

Overview of allergic mechanisms. Ebastine has more than an antihistamine effect. Campbell A, et al. **Drugs** 1996;52 Suppl 1:15-9

Comparison of the efficacy of ebastine 10mg and 20mg once daily with that of cetirizine 10mg once daily in adults with seasonal allergic rhinitis. A multicentre double-blind study. Cohen B, et al. **Drugs** 1996;52 Suppl 1:26-9

Double-blind multicentre comparative study of ebastine, terfenadine and placebo in the treatment of chronic idiopathic urticaria in adults. Kalis B. **Drugs** 1996;52 Suppl 1:30-4

Clinical efficacy of ebastine in the treatment and prevention of seasonal allergic rhinitis. Peláez A. **Drugs** 1996;52 Suppl 1:35-8

Clinical studies of the efficacy and tolerability of ebastine 10 or 20 mg once daily in the treatment of seasonal allergic rhinitis in the US. Storms WW. **Drugs** 1996;52 Suppl 1:20-5

Melperone treatment in an organic delusional syndrome induced by hyperprolactinemia: a case report. Soygür H, et al. **Eur Neuropsychopharmacol** 1997 May;7(2):161-3

Melperone in the treatment of iatrogenic psychosis in Parkinson's disease. Barbato L, et al. **Funct Neurol** 1996 Jul-Aug;11(4):201-7

Dopamine receptor binding predicts clinical and pharmacological potencies of antischizophrenic drugs. Creese I, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):223-6

[Ebastine : treatment of perennial rhinitis in the child] Benavente V, et al. **Allerg Immunol (Paris)** 1996 Oct; 28(8):277-81 (Eng. Abstr.) **(Fre)**

[Practical experiences in the therapy of postweaning edema disease in piglets] Papp I, et al. **Berl Munch Tierarztl Wochenschr** 1996 Oct;109(10):385-7 (Eng. Abstr.) **(Ger)**

TOXICITY

Cardiotoxic and drug interaction profile of the second generation antihistamines ebastine and terfenadine in an experimental animal model of torsade de pointes [see comments] Hey JA, et al. **Arzneimittelforschung** 1996 Feb; 46(2):159-63. Comment in: Arzneimittelforschung 1996 Aug;46(8):832-3.

BUTYRYLCHOLINESTERASE

Reversible inhibition of cholinesterases by opioids: possible pharmacological consequences. Galli A, et al. **J Pharm Pharmacol** 1996 Nov;48(11):1164-8

ANALYSIS

Butyrylcholinesterase-positive cells of the developing chicken retina that are non-cholinergic and GABA-positive. Reiss Y, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):62-72

ANTAGONISTS & INHIBITORS see **CHOLINESTERASE INHIBITORS**

BIOSYNTHESIS

Cholinesterases precede "ON-OFF" channel dichotomy in the embryonic chick retina before onset of synaptogenesis. Layer PG, et al. **Cell Tissue Res** 1997 Jun;288(3):407-16

BLOOD

Interspecies variation of "B" esterases in birds: the influence of size and feeding habits. Fossi MC, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):525-32

Histidine modification of human serum butyrylcholinesterase. Cengiz D, et al. **Biochem Mol Med** 1997 Jun;61(1):52-7

Structure of glycan moieties responsible for the extended circulatory life time of fetal bovine serum acetylcholinesterase and equine serum butyrylcholinesterase. Saxena A, et al. **Biochemistry** 1997 Jun 17;36(24):7481-9

Nonsense mutation in exon 2 of the butyrylcholinesterase gene: a case of familial cholinesterasemia. Hidaka K, et al. **Clin Chim Acta** 1997 May 6;261(1):27-34

Inhibition of human plasma and serum butyrylcholinesterase (EC 3.1.1.8) by alpha-chaconine and alpha-solanine. Nigg HN, et al. **Fundam Appl Toxicol** 1996 Oct;33(2):272-81

Quinolones and serum butyryl-cholinesterase activity. Paradelis AG, et al. **J Chemother** 1995 Nov;7 Suppl 4:34-5

Total syntheses and anticholinesterase activities of (3aS)-N(8)-norphysostigmine, (3aS)-N(8)-norphenserine, their antipodal isomers, and other N(8)-substituted analogues. Yu QS, et al. **J Med Chem** 1997 Aug 29; 40(18):2895-901

Simulated dermal contamination with capillary samples and field cholinesterase biomonitoring. Yuknavage KL, et al. **J Toxicol Environ Health** 1997 May;51(1):35-55

Cocaine detoxification by human plasma butyrylcholinesterase. Lynch TJ, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):363-71

Comparative kinetic analysis of cholinesterase methods in rat and human erythrocytes and plasma. Dass PD, et al. **Vet Hum Toxicol** 1997 Feb;39(1):11-7

CHEMISTRY

Importance of aspartate-70 in organophosphate inhibition, oxime re-activation and aging of human butyrylcholinesterase. Masson P, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):53-61

Structure of glycan moieties responsible for the extended circulatory life time of fetal bovine serum acetylcholinesterase and equine serum butyrylcholinesterase. Saxena A, et al. **Biochemistry** 1997 Jun 17;36(24):7481-9

Biochemical properties of acetyl- and butyrylcholinesterase in human meningioma. Sáez-Valero J, et al. **Biochim Biophys Acta** 1996 Dec 16;1317(3):210-8

Molecular forms of acetyl- and butyrylcholinesterase in normal and dystrophic mouse brain. Moral-Naranjo MT, et al. **J Neurosci Res** 1996 Jan 15;43(2):224-34

DRUG EFFECTS

Action of the herbicide butachlor on cholinesterases in the freshwater snail Pila globosa (Swainson). Rajyalakshmi T, et al. **Drug Chem Toxicol** 1996 Nov;19(4):325-31

Inhibition of neurotoxic esterase in vitro by novel carbamates. Randall JC, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):173-8

GENETICS

A single amino acid substitution, Gly117His, confers phosphotriesterase (organophosphorus acid anhydride hydrolase) activity on human butyrylcholinesterase. Lockridge O, et al. **Biochemistry** 1997 Jan 28;36(4):786-95

Amplification of the genes BCHE and SLC2A2 in 40% of squamous cell carcinoma of the lung. Brass N, et al. **Cancer Res** 1997 Jun 1;57(11):2290-4

Normal and atypical butyrylcholinesterases in placental development, function, and malfunction. Sternfeld M, et al. **Cell Mol Neurobiol** 1997 Jun;17(3):315-32

Genetic mutations of butyrylcholine esterase identified from phenotypic abnormalities in Japan. Maekawa M, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):924-9

Nonsense mutation in exon 2 of the butyrylcholinesterase gene: a case of familial cholinesterasemia. Hidaka K, et al. **Clin Chim Acta** 1997 May 6;261(1):27-34

Serum butyrylcholinesterase (CHE1) polymorphism in a Chilean population of mixed ancestry. Acuña M, et al. **Gene Geogr** 1996 Dec;10(3):161-5

Butyrylcholinesterase variants (BCHE and CHE2 Loci) associated with erythrocyte acetylcholinesterase inhibition in farmers exposed to pesticides. Fontoura-da-Silva SE, et al. **Hum Hered** 1996 May-Jun;46(3):142-7

Transfection of reaggregating embryonic chicken retinal cells with an antisense 5'-DNA butyrylcholinesterase expression vector inhibits proliferation and alters morphogenesis. Robitzki A, et al. **J Neurochem** 1997 Aug;69(2):823-33

Characterization of an unstable variant (BChE115D) of human butyrylcholinesterase. Primo-Parmo SL, et al. **Pharmacogenetics** 1997 Feb;7(1):27-34

[Serum butyrylcholinesterase variants in eastern Santiago population] Acuña M, et al. **Rev Med Chil** 1996 Sep; 124(9):1045-51 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Large-scale purification and long-term stability of human butyrylcholinesterase: a potential bioscavenger drug. Grunwald J, et al. **J Biochem Biophys Methods** 1997 Mar 27;34(2):123-35

METABOLISM

Importance of aspartate-70 in organophosphate inhibition, oxime re-activation and aging of human butyrylcholinesterase. Masson P, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):53-61

A single amino acid substitution, Gly117His, confers phosphotriesterase (organophosphorus acid anhydride hydrolase) activity on human butyrylcholinesterase. Lockridge O, et al. **Biochemistry** 1997 Jan 28;36(4):786-95

Role of aspartate 70 and tryptophan 82 in binding of succinyldithiocholine to human butyrylcholinesterase. Masson P, et al. **Biochemistry** 1997 Feb 25;36(8):2266-77

Combined pressure/heat-induced inactivation of butyrylcholinesterase. Weingand-Ziadé A, et al. **Biochim Biophys Acta** 1997 Jul 18;1340(2):245-52

Ultrastructural localization of butyrylcholinesterase in epithelial cells of rat intestine. L'Hermite A, et al. **Eur J Histochem** 1996;40(4):299-304

Schwann cells modify expression of acetylcholinesterase and butyrylcholinesterase at rat neuromuscular junctions. Chapron J, et al. **Eur J Neurosci** 1997 Feb;9(2):260-70

Cholinesterase activity in pig airways and epithelial cells. Taisne C, et al. **Fundam Clin Pharmacol** 1997;11(3):201-5

Changes in cholinesterase activities after daunorubicin administration to rabbits. Geršl V, et al. **Hum Exp Toxicol** 1996 Oct;15(10):834-8

Two cholinesterase activities and genes are present in amphioxus. Sutherland D, et al. **J Exp Zool** 1997 Feb 15; 277(3):213-29

Ultrastructural localization of butyrylcholinesterase in senile plaques in the brains of aged and Alzheimer disease patients. Gómez-Ramos P, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):161-73

Overlapping drug interaction sites of human butyrylcholinesterase dissected by site-directed mutagenesis. Loewenstein-Lichtenstein Y, et al. **Mol Pharmacol** 1996 Dec;50(6):1423-31

PHARMACOLOGY

Mechanism of eserine action on the hydrolysis of butyrylthiocholine by butyrylcholinesterase. Stojan J, et al. **J Enzyme Inhib** 1997 Jan;11(3):199-208

THERAPEUTIC USE

Cocaine detoxification by human plasma butyrylcholinesterase. Lynch TJ, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):363-71

Therapeutic use of butyrylcholinesterase for cocaine intoxication. Mattes CE, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):372-80

The stoichiometry of protection against soman and VX toxicity in monkeys pretreated with human butyrylcholinesterase. Raveh L, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):43-53

ULTRASTRUCTURE

Ultrastructural localization of butyrylcholinesterase in senile plaques in the brains of aged and Alzheimer disease patients. Gómez-Ramos P, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):161-73

BUTYRYLTHIOCHOLINE

METABOLISM

Mechanism of eserine action on the hydrolysis of butyrylthiocholine by butyrylcholinesterase. Stojan J, et al. **J Enzyme Inhib** 1997 Jan;11(3):199-208

BW 284 C 51

PHARMACOLOGY

Acetylcholinesterase inhibitor treatment delays recovery from axotomy in cultured dorsal root ganglion neurons. Dupree JL, et al. **J Neurocytol** 1996 Aug;25(8):439-54

Acetylcholinesterase promotes regeneration of neurites in cultured adult neurons of Aplysia. Srivatsan M, et al. **Neuroscience** 1997 Apr;77(3):921-31

BW-755C

ANALOGS & DERIVATIVES

2-Pyridylarylhydrazone derivatives, a new class of platelet aggregation inhibitors. Todeschini AR, et al. **Braz J Med Biol Res** 1996 Mar;29(3):389-93

BYLAWS see **CONSTITUTION AND BYLAWS**

BYPASS, CORONARY ARTERY see **CORONARY ARTERY BYPASS**

BYPASS, LEFT HEART see **HEART BYPASS, LEFT**

BYPASS, RIGHT HEART see **HEART BYPASS, RIGHT**

BYSSINOSIS

[Byssinosis--an occupational disease of textile workers] Žuškin E, et al. **Lijec Vjesn** 1996 Oct;118(10):248–53 (84 ref.) (Eng. Abstr.) **(Scr)**

EPIDEMIOLOGY

Byssinosis [letter] Bhattacharyya P, et al. **Natl Med J India** 1996 Mar–Apr;9(2):99

C1 ESTERASE see **COMPLEMENT 1S**

C1 ESTERASE INHIBITORS see **COMPLEMENT 1 INACTIVATORS**

C1 INACTIVATORS see **COMPLEMENT 1 INACTIVATORS**

C3 ACTIVATOR see **COMPLEMENT 3 CONVERTASE**

C3 CONVERTASE see **COMPLEMENT 3 CONVERTASE**

C3 NEPHRITIC FACTOR see **COMPLEMENT 3 NEPHRITIC FACTOR**

C3 PROACTIVATOR see **PROPERDIN FACTOR B**

C3B INACTIVATORS see **COMPLEMENT 3B INACTIVATORS**

C3B RECEPTORS see **RECEPTORS, COMPLEMENT 3B**

C3D RECEPTORS see **RECEPTORS, COMPLEMENT 3D**

C3PA see **PROPERDIN FACTOR B**

C3PA CONVERTASE see **PROPERDIN FACTOR D**

C3PASE see **PROPERDIN FACTOR D**

C4 COMPONENT COMPLEMENT PROTEINS see **COMPLEMENT 4**

C5 CLEAVING ENZYME see **COMPLEMENT 3 CONVERTASE**

C-283 see **NITRACRINE**

C-ABL GENES see **GENES, ABL**

C-ABL PROTEINS see **PROTO-ONCOGENE PROTEINS C-ABL**

C-ANCA see **ANTIBODIES, ANTINEUTROPHIL CYTOPLASMIC**

C-BCL-2 GENES see **GENES, BCL-2**

C-BCL-2 PROTEINS see **PROTO-ONCOGENE PROTEINS C-BCL-2**

C-ERBA ALPHA see **RECEPTORS, THYROID HORMONE**

C-ERBA BETA see **RECEPTORS, THYROID HORMONE**

C-ERBA GENES see **GENES, ERBA**

C-ERBA PROTEINS see **RECEPTORS, THYROID HORMONE**

C-ERBB-2 GENES see **GENES, ERBB-2**

C-ERBB-1 PROTEINS see **RECEPTORS, EPIDERMAL GROWTH FACTOR-UROGASTRONE**

C-ERBB-2 PROTEINS see **PROTO-ONCOGENE PROTEINS C-ERBB-2**

C FIBERS see **NERVE FIBERS**

C-FMS GENES see **GENES, FMS**

C-FMS PROTEIN see **RECEPTORS, MACROPHAGE COLONY-STIMULATING FACTOR**

C-FOS-ASSOCIATED PROTEIN P39 see **PROTO-ONCOGENE PROTEINS C-JUN**

C-FOS GENES see **GENES, FOS**

C-FOS PROTEINS see **PROTO-ONCOGENE PROTEINS C-FOS**

C-HA-RAS GENES see **GENES, RAS**

C-HA-RAS P21 see **PROTO-ONCOGENE PROTEIN P21(RAS)**

C-JUN GENES see **GENES, JUN**

C-JUN PROTEINS see **PROTO-ONCOGENE PROTEINS C-JUN**

C-KI-RAS GENES see **GENES, RAS**

C-KI-RAS P21 see **PROTO-ONCOGENE PROTEIN P21(RAS)**

C-KIT LIGAND see **STEM CELL FACTOR**

C-KIT PROTEINS see **PROTO-ONCOGENE PROTEINS C-KIT**

C-KIT RECEPTORS see **PROTO-ONCOGENE PROTEINS C-KIT**

C-MOS GENES see **GENES, MOS**

C-MOS PROTEINS see **PROTO-ONCOGENE PROTEINS C-MOS**

C-MYC GENES see **GENES, MYC**

C-MYC PROTEINS see **PROTO-ONCOGENE PROTEINS C-MYC**

C-N-RAS GENES see **GENES, RAS**

C-ONC PROTEINS see **PROTO-ONCOGENE PROTEINS**

C-PEPTIDE

Prospective study of nesidioblastosis in newborns and infants: hypoglycemic seizures, epileptogenesis and the significance of the C-peptide suppression test in pancreatectomy. Izumi T, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):10–7

ANALYSIS

C-peptide, insulin-like growth factors I and II, and insulin-like growth factor binding protein-1 in cord serum of twins: genetic versus environmental regulation. Verhaeghe J, et al. **Am J Obstet Gynecol** 1996 Nov; 175(5):1180–8

BIOSYNTHESIS

Des-(27-31)C-peptide. A novel secretory product of the rat pancreatic beta cell produced by truncation of proinsulin connecting peptide in secretory granules. Verchere CB, et al. **J Biol Chem** 1996 Nov 1;271(44):27475–81

BLOOD

Soluble CD8 antigen, stimulated C-peptide and islet cell antibodies are predictors of insulin requirement in newly diagnosed patients with unclassifiable diabetes. Di Bonito P, et al. **Acta Diabetol** 1996 Sep;33(3):220–4

Discriminative capacity of fasting C-peptide levels in a functional test according to different criteria of response to a stimulus. A study of Brazilian insulin-dependent diabetic patients. Pozzan R, et al. **Acta Diabetol** 1997 Mar; 34(1):42–5

The entero-insular axis in polycystic ovarian syndrome. Gama R, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):190–5

Do high proinsulin and C-peptide levels play a role in autonomic nervous dysfunction?: Power spectral analysis in patients with non-insulin-dependent diabetes and nondiabetic subjects. Töyry JP, et al. **Circulation** 1997 Aug 19;96(4):1185–91

Nutrition in pregnancy and the concentrations of proinsulin, 32-33 split proinsulin, insulin, and C-peptide in cord plasma. Godfrey KM, et al. **Diabet Med** 1996 Oct; 13(10):868–73

A prevalent amino acid polymorphism at codon 98 in the hepatocyte nuclear factor-1alpha gene is associated with reduced serum C-peptide and insulin responses to an oral glucose challenge. Urhammer SA, et al. **Diabetes** 1997 May; 46(5):912–6

Impaired glucose tolerance is normalized by treatment with the thiazolidinedione troglitazone [see comments] Antonucci T, et al. **Diabetes Care** 1997 Feb;20(2):188–93 . Comment in: Diabetes Care 1997 Aug;20(8):1340–1.

Glucagonostatic actions and reduction of fasting hyperglycemia by exogenous glucagon-like peptide I(7-36) amide in type I diabetic patients. Creutzfeldt WO, et al. **Diabetes Care** 1996 Jun;19(6):580–6

The effect of glipizide gastrointestinal therapeutic system on islet cell hormonal responses to a test meal in NIDDM. Mooradian AD, et al. **Diabetes Care** 1996 Aug;19(8):883–4

The classification of diabetes by clinical and C-peptide criteria. A prospective population-based study. Service FJ, et al. **Diabetes Care** 1997 Feb;20(2):198–201

Glucagon-induced plasma C-peptide response in diabetic patients. Influence of body weight and relationship to insulin requirement [letter] Scheen AJ, et al. **Diabetes Metab** 1996 Dec;22(6):455–8

Autoantibodies in relation to residual insulin secretion in children with IDDM. Ludvigsson J, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2-3):81–9

Relationships of C-peptide levels and the C-peptide/bloodsugar ratio with clinical/biochemical variables associated with insulin resistance in orally-treated, well-controlled type 2 diabetic patients. Relimpio F, et al. **Diabetes Res Clin Pract** 1997 Jun; 36(3):173–80

Effects of growth hormone (GH) and insulin-like growth factor-I on serum leptin in GH-deficient adults [letter] Bianda TL, et al. **Diabetologia** 1997 Mar;40(3):363–4

Short-term oestrogen replacement therapy improves insulin resistance, lipids and fibrinolysis in postmenopausal women with NIDDM. Brussaard HE, et al. **Diabetologia** 1997 Jul; 40(7):843–9

Effects of subcutaneous glucagon-like peptide 1 (GLP-1 [7-36 amide]) in patients with NIDDM. Nauck MA, et al. **Diabetologia** 1996 Dec;39(12):1546–53

Lack of C-peptide suppression by exogenous hyperinsulinemia in subjects with symptoms suggesting reactive hypoglycemia. Wasada T, et al. **Endocr J** 1996 Dec;43(6):639–44

Lean (underweight) NIDDM - peculiarities and differences in metabolic and hormonal status - a pilot study. Das S, et al. **J Assoc Physicians India** 1995 May;43(5):339–42

Development of an isotope dilution assay for precise determination of insulin, C-peptide, and proinsulin levels in non-diabetic and type II diabetic individuals with comparison to immunoassay. Kippen AD, et al. **J Biol Chem** 1997 May 9;272(19):12513–22

Macrosomic infants of nondiabetic mothers [letter; comment] Carter BS. **J Pediatr** 1996 Mar;128(3):439–40. Comment on: J Pediatr 1995 Sep;127(3):481–4.

Influence of health resort treatment on insulin and C-peptide concentration in girls with insulin-dependent diabetes. Bonikowska-Zgańska M. **Mater Med Pol** 1996 Oct-Dec; 28(4):115–31

Race and ethnicity determine serum insulin and C-peptide concentrations and hepatic insulin extraction and insulin clearance: comparative studies of three populations of West African ancestry and white Americans. Osei K, et al. **Metabolism** 1997 Jan;46(1):53–8

[Sulfonylurea-induced factitious hypoglycemia] Svirski B, et al. **Harefuah** 1996 May 15;130(10):678–80, 727 (Eng. Abstr.) **(Heb)**

[The utility of postprandial C-peptide evaluation in type 2 diabetes] Prando R, et al. **Riv Eur Sci Med Farmacol** 1996 May-Jun;18(3):95–104 (Eng. Abstr.) **(Ita)**

[Long-term follow up of acute and chronic pancreatitis during insulin and peptide C secretion and carbohydrate tolerance] Zalewski L. **Pol Arch Med Wewn** 1996 Dec; 96(6):561–9 (Eng. Abstr.) **(Pol)**

CHEMISTRY

Prevention of vascular and neural dysfunction in diabetic rats by C-peptide [see comments] Ido Y, et al. **Science** 1997 Jul 25;277(5325):563–6. Comment in: Science 1997 Jul 25;277(5325):531–2.

METABOLISM

Relation of cord plasma concentrations of proinsulin, 32-33 split proinsulin, insulin and C-peptide to placental weight and the baby's size and proportions at birth. Godfrey KM, et al. **Early Hum Dev** 1996 Sep 20;46(1-2):129–40

PHARMACOLOGY

Acute effects of C-peptide on the microvasculature of isolated perfused skeletal muscles and kidneys in rat. Lindström K, et al. **Acta Physiol Scand** 1996 Jan; 156(1):19–25

Effect of C-peptide administration on whole body glucose utilization in STZ-induced diabetic rats. Wu W, et al. **Acta Physiol Scand** 1996 Jun;157(2):253–8

C-peptide does not alter carbohydrate metabolism in isolated mouse muscle. Shashkin PN, et al. **Am J Physiol** 1997 Feb; 272(2 Pt 1):E245–7

B cell granule peptides affect human islet amyloid polypeptide (IAPP) fibril formation in vitro. Janciauskiene S, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):580–5

Effects of C-peptide on insulin-induced hypoglycaemia and its counterregulatory responses in IDDM patients. Oskarsson P, et al. **Diabet Med** 1997 Aug;14(8):655–9

Effect of C-peptide on insulin and glucagon release by isolated perfused rat pancreas. Leclercq-Meyer V, et al. **Diabetes Metab** 1997 Apr;23(2):149–54

C-peptide improves autonomic nerve function in IDDM patients. Johansson BL, et al. **Diabetologia** 1996 Jun; 39(6):687–95

PHYSIOLOGY

C-peptide revisited--new physiological effects and therapeutic implications. Wahren J, et al. **J Intern Med** 1996 Sep;240(3):115–24 (61 ref.)

Proinsulin C-peptide--biological activity? [comment] Steiner DF, et al. **Science** 1997 Jul 25;277(5325):531–2. Comment on: Science 1997 Jul 25;277(5325):563–6.

SECRETION

Epinephrine exerts opposite effects on peripheral glucose disposal and glucose-stimulated insulin secretion. A stable label intravenous glucose tolerance test minimal model study. Avogaro A, et al. **Diabetes** 1996 Oct;45(10):1373–8

[The characteristics of disorders in carbohydrate metabolism and insulin and C-peptide secretion in patients with chronic glomerulonephritis in developing chronic kidney failure]

Trusov VV, et al. **Ter Arkh** 1996;68(6):21–4 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Prevention of vascular and neural dysfunction in diabetic rats by C-peptide [see comments] Ido Y, et al. **Science** 1997 Jul 25;277(5325):563–6. Comment in: Science 1997 Jul 25;277(5325):531–2.

URINE

Blood pressure and urinary C-peptide excretion in subjects with varying degrees of glucose tolerance. Miura K, et al. **Blood Press** 1996 May;5(3):148–53

Renal metabolism of C-peptide in patients with early insulin-dependent diabetes mellitus. Robaudo C, et al. **Nephron** 1996;72(3):395–401

C-REACTIVE PROTEIN

[Would not serppi be o.k.? (letter)] Joensuu J. **Duodecim** 1995; 111(18):1803 **(Fin)**

ANALOGS & DERIVATIVES

Effect of partially modified retro-inverso analogues derived from C-reactive protein on the induction of nitric oxide synthesis in peritoneal macrophages. Arcoleo F, et al. **Br J Pharmacol** 1997 Apr;120(7):1383–9

ANALYSIS

The effect of reperfusion on plasma tumor necrosis factor alpha and C reactive protein levels in the course of acute myocardial infarction. Pudil R, et al. **Acta Medica (Hradec Kralove)** 1996;39(4):149–53

Serum C-reactive protein levels in patients with Kawasaki disease: from the results of nation-wide surveys of Kawasaki disease in Japan. Koyanagi H, et al. **Acta Paediatr** 1997 Jun;86(6):613–9

Procalcitonin and C-reactive protein levels in neonatal infections. Monneret G, et al. **Acta Paediatr** 1997 Feb; 86(2):209–12

White blood cell count, C-reactive protein and erythrocyte sedimentation rate in respiratory syncytial virus infection of the lower respiratory tract. Saijo M, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):596–600

High C-reactive protein is a strong predictor of resistance to erythropoietin in hemodialysis patients. Bárány P, et al. **Am J Kidney Dis** 1997 Apr;29(4):565–8

Salivary levels of alpha 2-macroglobulin, alpha 1-antitrypsin, C-reactive protein, cathepsin G and elastase in humans with or without destructive periodontal disease. Pederson ED, et al. **Arch Oral Biol** 1995 Dec;40(12):1151–5

Reliability and feasibility of a near patient test for C-reactive protein in primary care. Hobbs FD, et al. **Br J Gen Pract** 1996 Jul;46(408):395–400

Value of C-reactive protein in the detection of bacterial contamination at the time of presentation in drug-induced aspiration pneumonia. Adnet F, et al. **Chest** 1997 Aug; 112(2):466–71

C-reactive protein as a predictor of infarct expansion and cardiac rupture after a first Q-wave acute myocardial infarction. Anzai T, et al. **Circulation** 1997 Aug 5; 96(3):778–84

C-reactive protein colocalizes with complement in human hearts during acute myocardial infarction. Lagrand WK, et al. **Circulation** 1997 Jan 7;95(1):97–103

Changes in plasma metallothionein-1, interleukin-6, and C-reactive protein in patients after elective surgery. Akintola DF, et al. **Clin Chem** 1997 May;43(5):845–7

Variability in the measurement of C-reactive protein in healthy subjects: implications for reference intervals and epidemiological applications. Macy EM, et al. **Clin Chem** 1997 Jan;43(1):52–8

Diagnostic value of C-reactive protein and transthyretin in bone infections of the lower limb. Bourguignat A, et al. **Clin Chim Acta** 1996 Nov 15;255(1):27–38

The fat emulsion agglutination test: a reliable and cost effective alternative to the latex agglutination test for rapid bedside CRP measurement. Richter D, et al. **Clin Chim Acta** 1997 May 28;261(2):141–8

Early detection of sequela-prone osteomyelitis in children with use of simple clinical and laboratory criteria. Roine I, et al. **Clin Infect Dis** 1997 May;24(5):849–53

Changes in blood rheology caused by Crohn's disease. Novacek G, et al. **Eur J Gastroenterol Hepatol** 1996 Nov; 8(11):1089–93

White blood cell count, leucocyte elastase activity, and serum concentrations of interleukin-6 and C-reactive protein after open appendicectomy. Eriksson S, et al. **Eur J Surg** 1997 Feb;163(2):123–7

White blood cells, C-reactive protein and erythrocyte sedimentation rate in pneumococcal pneumonia in children. Korppi M, et al. **Eur Respir J** 1997 May;10(5):1125–9

Predicting outcome in severe ulcerative colitis. Travis SP, et al. **Gut** 1996 Jun;38(6):905–10

C-reactive protein as an indicator of complications in bacterial meningitis. Singh UK, et al. **Indian Pediatr** 1996 May;33(5):373–6

C-reactive protein is more sensitive than erythrocyte sedimentation rate for diagnosis of infective endocarditis. Hogevik H, et al. **Infection** 1997 Mar–Apr;25(2):82–5

Are serum inflammatory markers age dependent in acute appendicitis? Paajanen H, et al. **J Am Coll Surg** 1997 Mar; 184(3):303–8

Hepatocyte growth factor in assessment of acute pancreatitis: comparison with C-reactive protein and interleukin-6. Ueda T, et al. **J Gastroenterol** 1997 Feb;32(1):63–70

A comparative study of optical techniques applied to particle-enhanced assays of C-reactive protein. Ortega-Vinuesa JL, et al. **J Immunol Methods** 1997 Jul 14;205(2):151–6

Acute Chagas' disease: plasma levels of alpha-2-macroglobulin and C-reactive protein in children under 13 years in a high endemic area of Bolivia. Medrano NM, et al. **J Trop Pediatr** 1996 Apr;42(2):68–74

Meconium peritonitis: changes in fetal C-reactive protein and CA 125 levels in relation to stage of disease. Ohmichi M, et al. **J Ultrasound Med** 1997 Apr;16(4):289–92

Prognostic value of the doubling time of serum C-reactive protein and alkaline phosphatase levels in primary bone and soft tissue tumors. Yudoh K, et al. **Jpn J Cancer Res** 1996 Dec;87(12):1288–95

Serum neopterin in acute coronary syndromes [letter; comment] Kluft C, et al. **Lancet** 1997 Apr 26; 349(9060):1253. Comment on: Lancet 1997 Feb 15;349(9050):462–6.

Inflammation, atherosclerosis, and ischemic events — exploring the hidden side of the moon [editorial; comment] [see comments] Maseri A. **N Engl J Med** 1997 Apr 3; 336(14):1014–6. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9. Comment in: N Engl J Med 1997 Aug 7;337(6):422; discussion 423–4.

Inflammation, aspirin, and the risk of cardiovascular disease in apparently healthy men [see comments] [published erratum appears in N Engl J Med 1997 Jul 31;337(5):356] Ridker PM, et al. **N Engl J Med** 1997 Apr 3;336(14):973–9. Comment in: N Engl J Med 1997 Apr 3;336(14):1014–6. Comment in: N Engl J Med 1997 Aug 7;337(6):422; discussion 423–4. Comment in: N Engl J Med 1997 Aug 7;337(6):422–3; discussion 423–4. Comment in: N Engl J Med 1997 Aug 7;337(6):423; discussion 423–4.

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Rus H, et al. **N Engl J Med** 1997 Aug 7;337(6):423; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.

Disturbed latex immunoassays for C-reactive protein and ferritin in a renal transplant patient due to polyclonal IgM hypergammaglobulinaemia. Hamwi A, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1229–33

Serum C-reactive protein, white blood cell count, and amniotic fluid white blood cell count in women with preterm premature rupture of membranes. Yoon BH, et al. **Obstet Gynecol** 1996 Dec;88(6):1034–40

Clinical applications of C-reactive protein in pediatrics. Jaye DL, et al. **Pediatr Infect Dis J** 1997 Aug;16(8):735–46; quiz 746–7 (126 ref.)

Serum C-reactive protein, erythrocyte sedimentation rate and white blood cell count in septic arthritis of children. Kallio MJ, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):411–3

C-reactive protein is a useful marker for guiding duration of antibiotic therapy in suspected neonatal bacterial infection. Ehl S, et al. **Pediatrics** 1997 Feb;99(2):216–21

Chronic induction of C-reactive protein by hemodialysis, but not by peritoneal dialysis therapy. Haubitz M, et al. **Perit Dial Int** 1996 Mar–Apr;16(2):158–62

The accuracy of C-reactive protein in diagnosing acute appendicitis—a meta-analysis. Hallan S, et al. **Scand J Clin Lab Invest** 1997 Aug;57(5):373–80

C-reactive protein: the difference between quantitation is serum and EDTA plasma. Nordin G, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):123–7

Time-scale of interleukin-6, myeloid related proteins (MRP), C reactive protein (CRP), and endotoxin plasma levels during the postoperative acute phase reaction. Berger D, et al. **Shock** 1997 Jun;7(6):422–6

Usefulness of C-reactive protein in the diagnosis of neonatal sepsis. Chan DK, et al. **Singapore Med J** 1997 Jun; 38(6):252–5

Serum C reactive protein does not reliably exclude lower limb deep venous thrombosis [letter] Wong NA, et al. **Thromb Haemost** 1996 Nov;76(5):816–7

The association of leukocyte count, fibrinogen and C-reactive protein with vascular risk factors and ischemic vascular diseases. Grau AJ, et al. **Thromb Res** 1996 May 1;82(3):245–55

High plasma levels of nitrogen oxides are associated with severe disease and correlate with rapid parasitological and clinical cure in Plasmodium falciparum malaria [see comments] Kremsner PG, et al. **Trans R Soc Trop Med Hyg** 1996 Jan–Feb;90(1):44–7. Comment in: Trans R Soc Trop Med Hyg 1997 Mar–Apr;91(2):238–40.

C-reactive protein and haptoglobin in the evaluation of a community-based malaria control programme. McGuire W, et al. **Trans R Soc Trop Med Hyg** 1996 Jan–Feb; 90(1):10–4

[Selection criteria for the establishment of reference values in tropical zones. Application to specific proteins: C-reactive protein, haptoglobin, transferrin in gabonese children] Ngou-Milama E, et al. **Bull Soc Pathol Exot** 1997; 90(1):33–6 (Eng. Abstr.) **(Fre)**

[Value of C-reactive protein for detecting bacteremia in febrile patients] Ruiz-Laiglesia FJ, et al. **Presse Med** 1996 Jul 6–13;25(24):1105–8 (Eng. Abstr.) **(Fre)**

[Clinical significance of peak body temperature, white blood cell count, and C-reactive protein level in febrile episodes among geriatric inpatients] Ikematsu H, et al. **Kansenshogaku Zasshi** 1997 Jun;71(6):527–33 (Eng. Abstr.) **(Jpn)**

[Changes of urinary ulinastatin and serum CRP after elective surgery for gastric cancer] Ueki M, et al. **Masui** 1996 Aug; 45(8):933–6 (Eng. Abstr.) **(Jpn)**

[Future prospects of emergency laboratory tests—problems of immunoserologic tests] Obana Y, et al. **Rinsho Byori** 1996 Oct;44(10):956–61 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Usefulness of C-reactive protein (CRP) detection for early diagnosis of infectious postoperative complications after gynecologic surgery] Jaworski S, et al. **Ginekol Pol** 1997 Jan;68(1):36–40 (Eng. Abstr.) **(Pol)**

[Serum C reactive protein as a laboratory indicator of infection in neonates] Jasińska A, et al. **Pediatr Pol** 1996 Jul;71(7):595–8 (Eng. Abstr.) **(Pol)**

BIOSYNTHESIS

Microheterogeneity of C-reactive protein in the sera of fish Labeo rohita induced by metal pollutants. Sinha S, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):681–7

Expression of a long pentraxin, PTX3, by monocytes exposed to the mycobacterial cell wall component lipoarabinomannan. Vouret-Craviari V, et al. **Infect Immun** 1997 Apr;65(4):1345–50

Possible low response of C-reactive protein production in eosinophilic pneumonia. Chihara J, et al. **J Clin Lab Immunol** 1995;47(1):33–9

Production of C-reactive protein and risk of coronary events in stable and unstable angina. European Concerted Action on Thrombosis and Disabilities Angina Pectoris Study Group [see comments] Haverkate F, et al. **Lancet** 1997 Feb 15;349(9050):462–6. Comment in: Lancet 1997 Apr 26;349(9060):1252–3. Comment in: Lancet 1997 Apr 26;349(9060):1253.

Transgenic mice expressing rabbit C-reactive protein are resistant to endotoxemia. Xia D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2575–80

Serum interferon-gamma and C-reactive protein levels as predictors of acute graft-vs-host disease in allogeneic hematopoietic precursor cell (marrow or peripheral blood progenitor cells) recipients. Lange A, et al. **Transplant Proc** 1996 Dec;28(6):3522–5

[Production of inflammatory markers by HepG 2 cells stimulated with monocyte conditioned media: the effects of corticosteroid and other immunosuppressants] Shimetani N, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Jun; 20(3):166–77 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Female protein, amyloidosis, and hormonal carcinogenesis in Turkish hamster: differences from Syrian hamster. Coe JE, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R934–41

Microheterogeneity of C-reactive protein in the sera of fish Labeo rohita induced by metal pollutants. Sinha S, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):681–7

Interaction of rabbit C-reactive protein with phospholipid monolayers studied by microfluorescence film balance with an externally applied electric field. Mi LZ, et al. **Biophys J** 1997 Jul;73(1):446–51

C-reactive protein: structural biology, gene expression, and host defense function. Szalai AJ, et al. **Immunol Res** 1997; 16(2):127–36 (34 ref.)

Neuronal pentraxin receptor, a novel putative integral membrane pentraxin that interacts with neuronal pentraxin 1 and 2 and taipoxin-associated calcium-binding protein 49. Dodds DC, et al. **J Biol Chem** 1997 Aug 22; 272(34):21488–94

DEFICIENCY

Possible low response of C-reactive protein production in eosinophilic pneumonia. Chihara J, et al. **J Clin Lab Immunol** 1995;47(1):33–9

DRUG EFFECTS

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Murray WM. **N Engl J Med** 1997 Aug 7;337(6):422; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9. Comment on: N Engl J Med 1997 Apr 3;336(14):1014–6.

[Modification of C-reactive protein after instillation of natural exogenous surfactants] el Hanache A, et al. **Arch Pediatr** 1997 Jan;4(1):27–31 (Eng. Abstr.) **(Fre)**

GENETICS

Interleukin-6 is necessary, but not sufficient, for induction of the humanC-reactive protein gene in vivo. Weinhold B, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):617–21

C-reactive protein and serum amyloid A mRNA stability following induction by cytokines. Lozanski G, et al. **Cytokine** 1996 Jul;8(7):534–40

Mouse and human neuronal pentraxin 1 (NPTX1): conservation, genomic structure, and chromosomal localization. Omeis IA, et al. **Genomics** 1996 Sep 15; 36(3):543–5

Expression of rabbit C-reactive protein in transgenic mice. Lin CS, et al. **Immunol Cell Biol** 1995 Dec;73(6):521–31

C-REACTIVE PROTEIN

C-reactive protein: structural biology, gene expression, and host defense function. Szalai AJ, et al. **Immunol Res** 1997; 16(2):127-36 (34 ref.)

Characterization of the promoter for the human long pentraxin PTX3. Role of NF-kappaB in tumor necrosis factor-alpha and interleukin-1beta regulation. Basile A, et al. **J Biol Chem** 1997 Mar 28;272(13):8172-8

Site-directed mutagenesis of the phosphocholine-binding site of human C-reactive protein: role of Thr76 and Trp67. Agrawal A, et al. **J Immunol** 1997 Jan 1;158(1):345-50

IMMUNOLOGY

A role for secretory phospholipase A2 and C-reactive protein in the removal of injured cells. Hack CE, et al. **Immunol Today** 1997 Mar;18(3):111-5 (49 ref.)

Role of complement in C-reactive-protein-mediated protection of mice from Streptococcus pneumoniae. Szalai AJ, et al. **Infect Immun** 1996 Nov;64(11):4850-3

Binding site on human C-reactive protein (CRP) recognized by the leukocyte CRP-receptor. Zen Q, et al. **J Cell Biochem** 1997 Jan;64(1):140-51

The toxic oil syndrome: an example of an exogenously induced autoimmune reaction. Toxic oil syndrome. Bell SA. **Mol Biol Rep** 1996;23(3-4):261-3 (21 ref.)

The interaction of C-reactive protein and serum amyloid P component with nuclear antigens. Du Clos TW. **Mol Biol Rep** 1996;23(3-4):253-60 (40 ref.)

The MHC class II-restricted T cell response of C57BL/6 mice to human C-reactive protein: homology to self and the selection of T cell epitopes and T cell receptors. Döffinger R, et al. **Mol Immunol** 1997 Feb;34(2):115-24

Measurement of antigen concentration by an ultrasound-enhanced latex immunoagglutination assay. Thomas NE, et al. **Ultrasound Med Biol** 1996;22(9):1277-84

ISOLATION & PURIFICATION

C-reactive protein in general practice--how commonly is it used and why? Dahler-Eriksen BS, et al. **Scand J Prim Health Care** 1997 Mar;15(1):35-8

METABOLISM

Short course antimicrobial therapy in intracranial abscess. Jamjoom AB. **Acta Neurochir (Wien)** 1996;138(7):835-9

C-reactive protein in viral and bacterial gastroenteritis in childhood. Borgnolo G, et al. **Acta Paediatr** 1996 Jun; 85(6):670-4

Acute phase proteins, C-reactive protein and serum amyloid A protein, as prognostic markers in the elderly inpatient. Hogarth MB, et al. **Age Ageing** 1997 Mar;26(2):153-8

C-reactive protein levels determine the severity of soft-tissue injuries. Pritchett JW. **Am J Orthop** 1996 Nov; 25(11):759-61

Female protein, amyloidosis, and hormonal carcinogenesis in Turkish hamster: differences from Syrian hamster. Coe JE, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R934-41

Effects of endotoxin on zinc metabolism in human volunteers. Gaetke LM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E952-6

Fever, C-reactive protein, and other acute-phase reactants during treatment of infective endocarditis. Olaison L, et al. **Arch Intern Med** 1997 Apr 28;157(8):885-92

Relationship of C-reactive protein to risk of cardiovascular disease in the elderly. Results from the Cardiovascular Health Study and the Rural Health Promotion Project. Tracy RP, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1121-7

Low-level increases in serum C-reactive protein are present in early osteoarthritis of the knee and predict progressive disease. Spector TD, et al. **Arthritis Rheum** 1997 Apr; 40(4):723-7

A preliminary study of C-reactive protein in the diagnosis and monitoring of Lyme disease. Chan SS, et al. **Biomed Environ Sci** 1996 Dec;9(4):424-9

Interaction of rabbit C-reactive protein with phospholipid monolayers studied by microfluorescence film balance with an externally applied electric field. Mi LZ, et al. **Biophys J** 1997 Jul;73(1):446-51

Elevated serum C-reactive protein levels in osteoarthritis [letter] Sharif M, et al. **Br J Rheumatol** 1997 Jan;36(1):140-1

Correlation between acute physiology and chronic health evaluation (APACHE) III score and immunological parameters in critically ill patients with sepsis [letter; comment] Barber MD, et al. **Br J Surg** 1996 Sep;83(9):1306 . Comment on: Br J Surg 1996 Mar;83(3):396-400.

C-reactive protein-like immunoreactivity in the neurofibrillary tangles of Alzheimer's disease. Duong T, et al. **Brain Res** 1997 Feb 21;749(1):152-6

An acute phase reaction in diabetic patients with foot ulcers. Upchurch GR Jr, et al. **Cardiovasc Surg** 1997 Feb;5(1):32-6

Complement-dependent binding of C-reactive protein complexes to human erythrocyte CR1. Mold C, et al. **Clin Immunol Immunopathol** 1996 Nov;81(2):153-60

Increased plasma concentrations of serum amyloid A: an indicator of the acute-phase response after cardiopulmonary bypass. Berendes E, et al. **Crit Care Med** 1997 Sep;25(9):1527-33

Interleukin-6 and stress hormone responses after uncomplicated gasless laparoscopic-assisted and open sigmoid colectomy. Fukushima R, et al. **Dis Colon Rectum** 1996 Oct;39(10 Suppl):S29-34

Determinants of the acute phase response in acute myocardial infarction [editorial] Maseri A, et al. **Eur Heart J** 1996 Sep; 17(9):1301-2

Serum C-reactive protein concentration in acute myocardial infarction and its relationship to mortality during 24 months of follow-up in patients under thrombolytic treatment. Pietilä KO, et al. **Eur Heart J** 1996 Sep;17(9):1345-9

Diagnostic value of C-reactive protein in children with perforated appendicitis. Chung JL, et al. **Eur J Pediatr** 1996 Jul;155(7):529-31

Pre-operative plasma levels of C-reactive protein, albumin and various plasma protease inhibitors for the pre-operative assessment of operability and recurrence in cancer surgery. Göransson J, et al. **Eur J Surg Oncol** 1996 Dec;22(6):607-17

High levels of circulating adrenomedullin in severe illness: correlation with C-reactive protein and evidence against the adrenal medulla as site of origin. Ehlenz K, et al. **Exp Clin Endocrinol Diabetes** 1997;105(3):156-62

Serial measurement of serum C-reactive protein facilitates evaluation in alcoholic hepatitis. Gupta S, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):516-21

A controlled study of leukocyte activation in septic patients. Pascual C, et al. **Intensive Care Med** 1997 Jul;23(7):743-8

Neuronal pentraxin receptor, a novel putative integral membrane pentraxin that interacts with neuronal pentraxin 1 and 2 and taipoxin-associated calcium-binding protein 49. Dodds DC, et al. **J Biol Chem** 1997 Aug 22; 272(34):21488-94

Binding site on human C-reactive protein (CRP) recognized by the leukocyte CRP-receptor. Zen Q, et al. **J Cell Biochem** 1997 Jan;64(1):140-51

Early detection of infected ureteral obstruction after SWL employing C-reactive protein. Wolff JM, et al. **J Endourol** 1996 Dec;10(6):523-6

Menstrual cycle-associated changes in blood levels of interleukin-6, alpha1 acid glycoprotein, and C-reactive protein. Jilma B, et al. **J Lab Clin Med** 1997 Jul; 130(1):69-75

The acute phase and function in early rheumatoid arthritis. C-reactive protein levels correlate with functional outcome. Devlin J, et al. **J Rheumatol** 1997 Jan;24(1):9-13

C-reactive protein levels correlate with functional outcome [letter] Munro R, et al. **J Rheumatol** 1997 Sep;24(9):1852-3

Comparative usefulness of C-reactive protein and erythrocyte sedimentation rate in patients with rheumatoid arthritis. Wolfe F. **J Rheumatol** 1997 Aug;24(8):1477-85

The C-reactive protein but not erythrocyte sedimentation rate is associated with clinical severity in patients with osteoarthritis of the knee or hip. Wolfe F. **J Rheumatol** 1997 Aug;24(8):1486-8

Evaluation of possible tissue damage in patients undergoing extracorporeal shock wave lithotripsy employing C-reactive protein. Wolff JM, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):31-4

Inflammatory laboratory tests after joint replacement surgery. Kolstad K, et al. **Ups J Med Sci** 1995;100(3):243-8

[Clinical significance of cytokines Il-6, Il-8 and C-reactive protein in serum of patients with acute pancreatitis] Stoelben E, et al. **Chirurg** 1996 Dec;67(12):1231-6 (Eng. Abstr.) **(Ger)**

[Diagnostic value of C-reactive protein levels in children with bone marrow transplantation] Pintér E, et al. **Orv Hetil** 1996 Jun 9;137(23):1259-62 (Eng. Abstr.) **(Hun)**

[C-reactive protein in SLE males: contribution to thrombotic complications] Kliukvina NG, et al. **Klin Med (Mosk)** 1997; 75(8):24-7 **(Rus)**

PHARMACOLOGY

C-reactive protein inhibits increased pulmonary vascular permeability induced by fMLP in isolated rabbit lungs. Abernathy VJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H507-13

Complement activation by C-reactive protein on the HEp-2 cell substrate. Vaith P, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):107-17

Synthetic peptides derived from the sequence of human C-reactive protein inhibit the enzymatic activities of human leukocyte elastase and human leukocyte cathepsin G. Yavin EJ, et al. **Int J Pept Protein Res** 1996 Nov;48(5):465-76

Prevention of In vitro neutrophil adhesion to endothelial cells through shedding of L-selectin by C-reactive protein and peptides derived from C-reactive protein. Zouki C, et al. **J Clin Invest** 1997 Aug 1;100(3):522-9

Comparative effects of some serum components and proteolytic products of fibrinogen on surface tension-lowering abilities of beractant and a synthetic peptide containing surfactant KL4. Manalo E, et al. **Pediatr Res** 1996 Jun;39(6):947-52

Modulation of bovine platelet function by C-reactive protein. Cheryk LA, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1-2):27-36

[The regulation of blood neutrophil functions by C-reactive protein and serum amyloid P] Polevshchikov AV, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug-Sep;82(8-9):67-72 (Eng. Abstr.) **(Rus)**

[The influence of C-reactive protein and its subunits on the cytotoxic effect of tumor necrosis factor-alpha in relation to L929 fibroblasts] Nazarov PG, et al. **Tsitologiia** 1996; 38(7):742-50 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

C-reactive protein increases C3 deposition on Leishmania donovani promastigotes in human serum. Culley FJ, et al. **Biochem Soc Trans** 1997 May;25(2):286S

The role of CRP and IL-6 in unstable angina [letter] Erdogan O, et al. **Circulation** 1997 Sep 16;96(6):2099-101

Long pentraxins: an emerging group of proteins with diverse functions. Goodman AR, et al. **Cytokine Growth Factor Rev** 1996 Aug;7(2):191-202 (76 ref.)

C-SRC GENES see **GENES, SRC**

C-SRC PROTEIN PP60 see **PROTO-ONCOGENE PROTEIN PP60(C-SRC)**

CA-15-3 ANTIGEN

Breast cancer associated mucin: a review. Segal-Eiras A, et al. **Allergol Immunopathol (Madr)** 1997 Jul-Aug; 25(4):176-81 (34 ref.)

ANALYSIS

Cellular characteristics of Arias-Stella reaction in ectopic pregnancy. Immunocytochemical studies with epithelial membrane antigen and vimentin. Toki N, et al. **Acta Cytol** 1997 Mar-Apr;41(2):285-90

Detection of a secreted MUC1/SEC protein by MUC1 isoform specific monoclonal antibodies. Smorodinsky N, et al. **Biochem Biophys Res Commun** 1996 Nov 1; 228(1):115-21

Production and characterization of a recombinant anti-MUC1 scFv reactive with human carcinomas. Denton G, et al. **Br J Cancer** 1997;76(5):614-21

Mucin-1-related T cell infiltration in colorectal carcinoma. Mulder WM, et al. **Cancer Immunol Immunother** 1996 Jul; 42(6):351-6

CEA, CA 15-3 and CYFRA 21-1 in serum and pleural fluid of patients with pleural effusions. Romero S, et al. **Eur Respir J** 1996 Jan;9(1):17-23

Ultrastructural localization of carcinoembryonic antigen (CEA) glycoproteins and epithelial membrane antigen (EMA) in normal and neoplastic sweat glands. Metze D, et al. **J Cutan Pathol** 1996 Dec;23(6):518-29

Tocopherols, retinol, beta-carotene and fatty acids in fat globule membrane and fat globule core in cows' milk. Jensen SK, et al. **J Dairy Res** 1996 Nov;63(4):565-74

Small-cell carcinoma of the endometrium: an immunohistochemical and ultrastructural analysis. Tsujioka H, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):9-16

Immunohistochemical localization of MUC1 glycoprotein in the retina. Uehara F, et al. **Jpn J Ophthalmol** 1997 May-Jun;41(3):200-1

Structure analysis of acetylated and non-acetylated O-linked MUC1-glycopeptides by post-source decay matrix-assisted laser desorption/ionization mass spectrometry. Goletz S, et al. **Rapid Commun Mass Spectrom** 1997;11(13):1387-98

[Vaccination against the tumoral mammary epithelial cells expressing MUC1 mucin] Scholl SM, et al. **Bull Cancer** 1997 Jan;84(1):61-4 (Eng. Abstr.) **(Fre)**

[Importance of early detection of metastases? Impact on survival and quality of life] Pujol H. **Nucl Med Biol** 1994 Apr;21(3):303-15 (16 ref.) (Eng. Abstr.) **(Fre)**

BIOSYNTHESIS

Effect of multiple, repeated doses of radioimmunotherapy on target antigen expression (breast MUC-1 mucin) in breast carcinomas. Peterson JA, et al. **Cancer Res** 1997 Mar 15;57(6):1103-8

Synthesis and intracellular trafficking of Muc-1 and mucins by polarized mouse uterine epithelial cells. Pimental RA, et al. **J Biol Chem** 1996 Nov 8;271(45):28128-37

Tyrosine kinase inhibition decreases Muc-1 expression in mouse epithelial cells. Wegner CC, et al. **J Cell Physiol** 1997 Feb;170(2):200-8

BLOOD

The evaluation of combined scintimammography and tumor markers in breast cancer patients. Mangkharak J, et al. **Anticancer Res** 1997 May-Jun;17(3B):1611-4

Comparison of bone scanning and CA 15-3 serum concentration in the follow-up of breast cancer. Montravers F, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1683-6

Evaluation of the IMMULITE BR-MA and CEA assays and comparison with immunoradiometric assays for CA15-3 and CEA in breast cancer. Murray A, et al. **Anticancer Res** 1997 May-Jun;17(3C):1945-9

Utility of C-erbB-2 in tissue and in serum in the early diagnosis of recurrence in breast cancer patients: comparison with carcinoembryonic antigen and CA 15.3. Molina R, et al. **Br J Cancer** 1996 Oct;74(7):1126-31

Relationship between CA 15-3 serum levels and disease extent in predicting overall survival of breast cancer patients with newly diagnosed metastatic disease. Tampellini M, et al. **Br J Cancer** 1997;75(5):698-702

Serum concentrations of cancer antigen 125, placental alkaline phosphatase, cancer-associated serum antigen and free beta human chorionic gonadotrophin as prognostic markers for epithelial ovarian cancer. Ind T, et al.

Br J Obstet Gynaecol 1997 Sep;104(9):1024–9
Value of CA 15.3 in breast cancer and comparison with CEA and TPA: a study of specificity in disease–free follow–up patients and sensitivity in patients at diagnosis of the first metastasis. Vizcarra E, et al. **Breast Cancer Res Treat** 1996; 37(3):209–16
Clinical evaluation of potential usefulness of CEA, CA 15–3, and MCA in follow–up of breast cancer patients. Jezersek B, et al. **Cancer Lett** 1996 Dec 20;110(1–2):137–44
Utility of CA 15–3 and CEA in monitoring breast cancer patients with bone metastases: special emphasis on "spiking" phenomena. Yasasever V, et al. **Clin Biochem** 1997 Feb; 30(1):53–6
Clinical and technical evaluation of ACS BR serum assay of MUC1 gene–derived glycoprotein in breast cancer, and comparison with CA 15–3 assays. Bon GG, et al. **Clin Chem** 1997 Apr;43(4):585–93
The correlation of CA15.3 and TPS with tumor course in patients with metastatic breast cancer. Pronk LC, et al. **J Cancer Res Clin Oncol** 1997;123(2):128–32
Prognostic significance of preimmunotherapy serum CA27.29 (MUC–1) mucin level after active specific immunotherapy of metastatic adenocarcinoma patients. MacLean GD, et al. **J Immunother** 1997 Jan;20(1):70–8
Evaluation of CA 15–3 serum levels in breast cancer patients. Skrzydlewski Z, et al. **Minerva Chir** 1997 Mar;52(3):251–4
Pretreatment values of serum CA 15–3 antigen related to prognostic factors in breast cancer patients. Wojtacki J, et al. **Neoplasma** 1996;43(4):225–9
Mucinous markers in breast cancer. Seregni E, et al. **Tumori** 1997 Mar–Apr;83(2):550–1 (09 ref.)
Influence of neoadjuvant chemotherapy on serum tumor markers CA 15–3, MCA, CEA, TPS and TPA in breast cancer patients with operable disease. Bottini A, et al. **Tumour Biol** 1997;18(5):301–10
[Levels of the CASA tumor marker during the menstrual cycle] Meisel M, et al. **Zentralbl Gynakol** 1996;118(7):412–3 (Eng. Abstr.) **(Ger)**
[Evaluation of an immunoenzymatic method for determining the tumor marker CA 15–3)] Baghino E, et al. **Minerva Med** 1996 Oct;87(10):487–9 (Eng. Abstr.) **(Ita)**
[Level of CA 15–3 antigen––a prognostic factor in patients with breast cancer?] Wojtacki J, et al. **Przegl Lek** 1996; 53(11):788–92 (Eng. Abstr.) **(Pol)**

CHEMISTRY

Comparison of O–linked carbohydrate chains in MUC–1 mucin from normal breast epithelial cell lines and breast carcinoma cell lines. Demonstration of simpler and fewer glycan chains in tumor cells. Lloyd KO, et al. **J Biol Chem** 1996 Dec 27;271(52):33325–34
Localization of O–glycosylation sites on glycopeptide fragments from lactation–associated MUC1. All putative sites within the tandem repeat are glycosylation targets in vivo. Müller S, et al. **J Biol Chem** 1997 Oct 3; 272(40):24780–93
Analysis of mammalian MUC1 genes reveals potential functionally important domains. Spicer AP, et al. **Mamm Genome** 1995 Dec;6(12):885–8

GENETICS

Regulation of MUC5 and MUC1 gene expression: correlation with airway mucous differentiation. Guzman K, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L846–53
Two additional polymorphisms within the hypervariable MUC1 gene: association of alleles either side of the VNTR region. Pratt WS, et al. **Ann Hum Genet** 1996 Jan;60 (Pt 1):21–28
Effects of steroid–free fetal serum and steroid supplementation on MUC1 gene expression in human breast cancer cell line MCF7. Botti C, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):205–8
Spatial and temporal analyses of integrin and Muc–1 expression in porcine uterine epithelium and trophectoderm in vivo. Bowen JA, et al. **Biol Reprod** 1996 Nov; 55(5):1098–106
Molecular cloning and hormone–dependent expression of rabbit Muc1 in the cervix and uterus. Hewetson A, et al. **Biol Reprod** 1997 Aug;57(2):468–77
A gene dosage effect is responsible for high overexpression of the MUC1 gene observed in human breast tumors. Bièche I, et al. **Cancer Genet Cytogenet** 1997 Oct 1; 98(1):75–80
Estrogenic effects of nonylphenol on pS2, ER and MUC1 gene expression in human breast cancer cells–MCF–7. Ren L, et al. **Chem Biol Interact** 1997 Apr 18;104(1):55–64
MUC1 gene polymorphism and gastric cancer––an epidemiological study. Carvalho F, et al. **Glycoconj J** 1997 Jan;14(1):107–11
Preferential expression of novel MUC1 tumor antigen isoforms in human epithelial tumors and their tumor–potentiating function. Baruch A, et al. **Int J Cancer** 1997 May 29;71(5):741–9
Proline–rich tandem repeats of antibody complementarity–determining regions bind and neutralize human immunodeficiency virus type 1 particles. Fontenot JD, et al. **J Virol** 1996 Oct;70(10):6557–62
Analysis of mammalian MUC1 genes reveals potential functionally important domains. Spicer AP, et al. **Mamm Genome** 1995 Dec;6(12):885–8

IMMUNOLOGY

A survivor of breast cancer with immunity to MUC–1 mucin, and lactational mastitis. Jerome KR, et al. **Cancer Immunol Immunother** 1997 Jan;43(6):355–60
Comparison of the biological properties of two anti–mucin–1 antibodies prepared for imaging and therapy. Pietersz GA, et al. **Cancer Immunol Immunother** 1997 Aug;44(6):323–8
Biodistribution of (111)indium–labeled engineered human antibody CTMO1 in ovarian cancer patients: influence of protein dose. van Hof AC, et al. **Cancer Res** 1996 Nov 15;56(22):5179–85
Human antibodies against the polymorphic epithelial mucin in ovarian cancer patients recognise a novel sequence in the tandem repeat region. Petrarca C, et al. **Eur J Cancer** 1996 Nov;32A(12):2155–63
Humoral immune response to polymorphic epithelial mucin (MUC–1) in patients with benign and malignant breast tumours. von Mensdorff–Pouilly S, et al. **Eur J Cancer** 1996 Jul;32A(8):1325–31
The effect of circulating antigen on the biodistribution of the engineered human antibody hCTM01 in a nude mice model. Davies Q, et al. **Eur J Nucl Med** 1997 Feb; 24(2):206–9
Preclinical evaluation of copper–67 labelled anti–MUC1 mucin antibody C595 for therapeutic use in bladder cancer. Hughes OD, et al. **Eur J Nucl Med** 1997 Apr;24(4):439–43
Cytotoxic T lymphocytes derived from bone marrow mononuclear cells of multiple myeloma patients recognize an underglycosylated form of MUC1 mucin. Noto H, et al. **Int Immunol** 1997 May;9(5):791–8
In vitro induction of MUC–1 peptide–specific type 1 T lymphocyte and cytotoxic T lymphocyte responses from healthy multiparous donors. Agrawal B, et al. **J Immunol** 1996 Sep 1;157(5):2089–95
Molecular adjuvant effects of a conformationally biased agonist of human C5a anaphylatoxin. Tempero RM, et al. **J Immunol** 1997 Feb 1;158(3):1377–82
Carbohydrate recognition on MUC1–expressing targets enhances cytotoxicity of a T cell subpopulation. Böhm CM, et al. **Scand J Immunol** 1997 Jul;46(1):27–34
Characterization of a new breast cancer–associated antigen and its relationship to MUC1 and TAG–72 antigens. Harada Y, et al. **Tohoku J Exp Med** 1996 Nov; 180(3):273–88
Cell–mediated immune responses to MUC1 fusion protein coupled to mannan. Apostolopoulos V, et al. **Vaccine** 1996 Jun;14(9):930–8
[Adoptive immunotherapy for pancreatic cancer, using MUC1 specific CTL] Masaki Y, et al. **Gan To Kagaku Ryoho** 1996 Oct;23(12):1679–80 (3 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

Spatial and temporal analyses of integrin and Muc–1 expression in porcine uterine epithelium and trophectoderm in vitro. Bowen JA, et al. **Biol Reprod** 1997 Feb; 56(2):409–15
A MUC1 mucin secreted from a colon carcinoma cell line inhibits target cell lysis by natural killer cells. Zhang K, et al. **Cell Immunol** 1997 Mar 15;176(2):158–65
Sialyl–Lewis x and Sialyl–Lewis a are associated with MUC1 in human endometrium. Hey NA, et al. **Glycoconj J** 1996 Oct;13(5):769–79
Differential expression of MUC1 on transfected cell lines influences its recognition by MUC1 specific T cells. Magarian–Blander J, et al. **Glycoconj J** 1996 Oct; 13(5):749–56
Differential glycosylation of MUC1 in tumors and transfected epithelial and lymphoblastoid cell lines. Poland PA, et al. **Glycoconj J** 1997 Jan;14(1):89–96
Abnormal expression of MUC1 apomucin and mature MUC1 mucin in biliary epithelial cells in various cystic liver diseases. Sasaki M, et al. **Hepatology** 1996 Sep;24(3):539–43
Mucin antigen expression in gastric carcinomas of young and old adults. Sakamoto H, et al. **Hum Pathol** 1997 Sep; 28(9):1056–65
Cytotoxic T lymphocytes derived from bone marrow mononuclear cells of multiple myeloma patients recognize an underglycosylated form of MUC1 mucin. Noto H, et al. **Int Immunol** 1997 May;9(5):791–8
Comparison of MUC–1 mucin expression in epithelial and non–epithelial cancer cell lines and demonstration of a new short variant form (MUC–1/Z). Oosterkamp HM, et al. **Int J Cancer** 1997 Jul 3;72(1):87–94
Oligosaccharides expressed on MUC1 produced by pancreatic and colon tumor cell lines. Burdick MD, et al. **J Biol Chem** 1997 Sep 26;272(39):24198–202
Interaction of the DF3/MUC1 breast carcinoma–associated antigen and beta–catenin in cell adhesion. Yamamoto M, et al. **J Biol Chem** 1997 May 9;272(19):12492–4
MUC1 and MUC2 mucins in flat and polypoid colorectal adenomas. Ajioka Y, et al. **J Clin Pathol** 1997 May; 50(5):417–21
Altered mucin core peptide immunoreactivity in the colon polyp–carcinoma sequence. Ho SB, et al. **Oncol Res** 1996; 8(2):53–61
Carcinosarcoma of the urinary bladder: expression of epithelial markers and different expression of heat shock proteins between epithelial and sarcomatous elements. Kamishima T, et al. **Pathol Int** 1997 Feb–Mar; 47(2–3):166–73
Comparison of sialyl–Lewis a–carrying CD43 and MUC1 mucins secreted from a colon carcinoma cell line for E–selectin binding and inhibition of leukocyte adhesion. Zhang K, et al. **Tumour Biol** 1997;18(3):175–87

PHARMACOLOGY

The effects of sialoglycoconjugates on adenovirus–mediated gene transfer to epithelial cells in vitro and in human airway xenografts. Arcasoy SM, et al. **Chest** 1997 Jun;111(6 Suppl):142S–143S
Mucin–based vaccines and cancer [news] Fricker J. **Mol Med Today** 1997 Feb;3(2):47

PHYSIOLOGY

MUC1 expressed in PanC1 cells decreases adhesion to type 1 collagen but increases contraction in collagen lattices. Hudson MJ, et al. **Am J Pathol** 1996 Mar;148(3):951–60
Low permeabilities of MDCK cell monolayers: a model barrier epithelium. Lavelle JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F67–75
A MUC1 mucin secreted from a colon carcinoma cell line inhibits target cell lysis by natural killer cells. Zhang K, et al. **Cell Immunol** 1997 Mar 15;176(2):158–65

CA–19–9 ANTIGEN

ANALYSIS

Hepatobiliary cystadenocarcinoma without ovarian stroma and normal CA 19–9 levels. Unusually prolonged evolution. Horsmans Y, et al. **Dig Dis Sci** 1997 Jul; 42(7):1406–8
CA 19.9, CA 242 and CEA in the diagnosis and follow–up of pancreatic cancer. Banfi G, et al. **Int J Biol Markers** 1996 Apr–Jun;11(2):77–81
Are diabetic metabolic compensation and CA19.9 really correlated? Banfi G, et al. **Int J Biol Markers** 1996 Oct–Dec;11(4):207–10
Simultaneous left renal pelvic and bilateral ureteral tumors producing carbohydrate antigen 19–9. Mizutani Y, et al. **Int J Urol** 1996 May;3(3):231–3
Mucinous biliary cystadenoma with mesenchymal stroma: expressions of CA 19–9 and carcinoembryonic antigen in serum and cystic fluid. Lee JH, et al. **J Gastroenterol** 1996 Oct;31(5):732–6 (22 ref.)
Immunohistochemical study of CA 19–9 and SPan–1 in cases of hydronephrosis. Inayama Y, et al. **Urol Int** 1996; 57(2):93–8
[Idiopathic interstitial pneumonia associated with a high level of CA19–9 in serum and with CA19–9 in lung tissue] Sugiyama M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):561–5 (Eng. Abstr.) **(Jpn)**
[CA–19–9 antigen analysis of bronchoalveolar lavage fluid contributing to therapeutic decision of pulmonary alveolar epithelial tumor] Abe K, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):925–6 **(Jpn)**

BIOSYNTHESIS

Carbohydrate antigen 19–9 expression by folliculo–tubular structures of normal and neoplastic pituitary. Okubo T, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):471–6
Primary adenocarcinoma of the ureter producing carbohydrate antigen 19–9. Iwaki H, et al. **J Urol** 1996 Oct;156(4):1437

BLOOD

CEA, CA 19–9, and CA–50 in monitoring gastric carcinoma. Pectasides D, et al. **Am J Clin Oncol** 1997 Aug;20(4):348–53
False elevation of CA 19–9 levels in a patient with a history of pancreatic cancer. Goetz M, et al. **Am J Gastroenterol** 1997 Aug;92(8):1390–1
CA 19–9 is an index of response to neoadjunctive chemoradiation therapy in pancreatic cancer. Willett CG, et al. **Am J Surg** 1996 Oct;172(4):350–2
Tumour markers in uraemia: carbohydrate antigen CA 72–4, carcinoembryonic antigen and carbohydrate antigen CA 19–9. Fernández–Fernández L, et al. **Ann Clin Biochem** 1996 Nov;33 (Pt 6):563–4
Slope analysis of CA19–9 and CEA for predicting recurrence in colorectal cancer patients. Nakayama T, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1379–82
Serum MCA, CA 125 and CA 19.9 determination in primary breast cancer. Yenisey C, et al. **Biochem Soc Trans** 1996 May;24(2):302S
Cellular fibronectin concentration in the plasma of patients with malignant and benign diseases: a comparison with CA 19–9 and CEA. Haglund C, et al. **Br J Cancer** 1997; 76(6):777–83
A difficult early diagnosis of pancreatic body neoplasia. Boldrini E, et al. **Hepatogastroenterology** 1996 May–Jun; 43(9):730–3
Preoperative differential diagnosis of benign and malignant pancreatic lesions––the value of pancreatic secretory trypsin inhibitor, procarboxypeptidase B, CA19–9 and CEA. Cerwenka H, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1117–21
CA 19–9 in evaluating the response to chemotherapy in advanced pancreatic cancer. Ishii H, et al.

Hepatogastroenterology 1997 Jan-Feb;44(13):279-83

Expression of tumor-associated carbohydrate antigens correlates with hepatic metastasis of pancreatic cancer: clinical and experimental studies. Takamori H, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):748-55

Serum CA19-9 determination in the management of pancreatic cancer. van den Bosch RP, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):710-3

Dermatomyositis accompanied by prostatic cancer and elevated serum CA 19.9. Ansai S, et al. **Int J Dermatol** 1996 Aug;35(8):570-1

CA 19-9 serum course and prognosis of pancreatic cancer. Safi F, et al. **Int J Pancreatol** 1996 Dec;20(3):155-61

Receiver operating characteristic (ROC) curve analysis of the tumor markers CEA, CA 19-9 and CA 72-4 in gastric cancer. Fernández-Fernández L, et al. **Int Surg** 1996 Oct-Dec;81(4):400-2

The role of acute-phase reactant proteins, carcinoembryonic antigen and CA 19-9 as a marker in the preoperative staging of colorectal cancer: a prospective clinical study. Yüceyar S, et al. **Int Surg** 1996 Apr-Jun;81(2):136-9

A comparison of the clinical usefulness of CA 19-9 and CA 50 in the diagnosis and monitoring of gastrointestinal cancers. Kokocińska D, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):283-7

Sialyl Lewis(a) ganglioside in pancreatic cancer tissue correlates with the serum CA 19-9 level. Hamanaka Y, et al. **Pancreas** 1996 Aug;13(2):160-5

Elevated tumor-associated antigen CA 19-9 in a patient with an enlarged pancreas: does it always imply malignancy? Tolliver BA, et al. **South Med J** 1997 Jan;90(1):89-90

CA19-9: a possible serum marker for embryonal carcinoma. Tsuruta T, et al. **Urol Int** 1997;58(1):20-4

Evaluation of three pancreas specific protein assays, TLI(trypsin-like immunoreactivity), PASP (pancreas specific protein) and CA 19-9 (glycoprotein) for use in the diagnosis of canine pancreatitis. Archer FJ, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):109-13

[Value of the CA 19-9 tumor marker in differential diagnosis of space-occupying lesions in the head of the pancreas] Böttger T, et al. **Chirurg** 1996 Oct;67(10):1007-11 (Eng. Abstr.) **(Ger)**

[Clinical value of the CA 19-9 tumor marker with special reference to the Lewis phenotype] Kolb G, et al. **Med Klin** 1997 Apr 15;92(4):228-32 (Eng. Abstr.) **(Ger)**

[A case of lung adenocarcinoma associated with remarkably high levels of CA 19-9 and lymphangitis carcinomatosa] Akiyama Y, et al. **Gan To Kagaku Ryoho** 1997 Jan; 24(1):93-6 (Eng. Abstr.) **(Jpn)**

[A case of CEA and CA19-9 producing recurrent transitional cell carcinoma in an Indiana pouch after total cystectomy] Miyoshi Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):961-4 (Eng. Abstr.) **(Jpn)**

[CA19-9 producing mixed gonadal germ-cell tumor in undescended testis located in abdomen. A case report] Nomata K, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1064-7 (Eng. Abstr.) **(Jpn)**

[A resected case of bronchogenic cyst of the left hemidiaphragm with elevated serum CA19-9] Nakamura A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan; 45(1):79-83 (Eng. Abstr.) **(Jpn)**

[Diffuse bronchiolo-alveolar cell carcinoma that produced both amylase and CA19-9] Nonogaki T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr; 35(4):426-31 (Eng. Abstr.) **(Jpn)**

[A case report of incomplete pancreas divism with transient extreme increase of CA19-9] Sugimoto K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):141-4 **(Jpn)**

[Ca-19-9, carcinoembryonic antigen, and alpha-fetoprotein in the serum of nononcological patients and their clinical significance] Skvortsov SV, et al. **Biull Eksp Biol Med** 1997 May;123(5):566-9 **(Rus)**

[Value of serologic markers in the management of colorectal cancer (editorial)] Wainstein RC, et al. **Acta Gastroenterol Latinoam** 1995;25(5):309-10 **(Spa)**

IMMUNOLOGY

[Lewis antigens in human colon carcinoma] Duś D, et al. **Postepy Hig Med Dosw** 1996;50(5):549-53 (Eng. Abstr.) **(Pol)**

[Antibodies to cardiolipin and tumor-associated antigens CA-125 and CA-19-9 in patients with ovarian tumors] Karpov NI, et al. **Klin Med (Mosk)** 1996;74(4):42-5 (Eng. Abstr.) **(Rus)**

METABOLISM

Marked increase in serum CA 19-9 level in patients with alcoholic cirrhosis: report of four cases. Mathurin P, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1129-31 (17 ref.)

Alpha-fetoprotein, carcinoembryonic antigen, and carbohydrate antigen 19-9-producing gallbladder cancer. Ono T, et al. **J Gastroenterol** 1996 Oct;31(5):742-6 (14 ref.)

Serum and cystic fluid CA 19-9 determinations as a diagnostic help in liver cysts of uncertain nature. Horsmans Y, et al. **Liver** 1996 Aug;16(4):255-7

URINE

[Determination of urinary CA19-9 levels in urothelial cancer--assessment of its role in diagnosis (published erratum appears in Nippon Hinyokika Gakkai Zasshi 1997 Apr;88(4):511)] Noto K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):406-13 (Eng. Abstr.) **(Jpn)**

CA-125 ANTIGEN

ANALYSIS

CA-125 immunostaining in mesotheliomas [letter; comment] Moldavsky M, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1243-4 . Comment on: Acta Cytol 1995 Mar-Apr;39(2):164-70.

CA-125 and carcinoembryonic antigen assay vs. cytodiagnostic experience in the classification of benign ovarian cysts. Pinto MM, et al. **Acta Cytol** 1997 Sep-Oct; 41(5):1456-62

Elevated serum CA 125 tumor marker in chronic lymphocytic leukemia with mesothelial involvement [letter] Acin P, et al. **Am J Hematol** 1996 Dec;53(4):281

Dialysate cell population and cancer antigen 125 in stable continuous ambulatory peritoneal dialysis patients: their relationship with transport parameters. Lai KN, et al. **Am J Kidney Dis** 1997 May;29(5):699-705

Defining progression of ovarian carcinoma during follow-up according to CA 125: a North Thames Ovary Group Study. Rustin GJ, et al. **Ann Oncol** 1996 Apr;7(4):361-4

Immunoblotting characterization of CA 125 in biological fluids: difference between pregnancy and cancer CA 125 origin. Barbati A, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3621-4

Relevance of CA-125 in the evaluation of endometriosis. Colacurci N, et al. **Clin Exp Obstet Gynecol** 1996; 23(3):150-4

CA-125 in fine-needle aspirates of solid tumors: comparison with cytologic diagnosis and carcinoembryonic antigen (CEA) assay. Pinto MM, et al. **Diagn Cytopathol** 1996 Mar; 14(2):121-5

Comparison between Centcor CA 125 and CA 125 II assays. Eltabbakh GH, et al. **Eur J Gynaecol Oncol** 1996; 17(6):504-6

Inhibin assays of ovarian cyst liquid obtained by needle aspiration may allow differential diagnosis between functional and organic cysts. Binelli C, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun;73(2):161-5

Expression of cathepsin-D, CA125 and epidermal growth factor receptor in imprint smears of ovarian carcinoma. Athanassiadou P, et al. **Gynecol Obstet Invest** 1997; 43(2):125-30

CA125 in culture medium of preimplantation embryo. Borri P, et al. **Gynecol Obstet Invest** 1996;41(2):73-5

How to overcome the disturbing effects of human anti-mouse antibodies (HAMA) on in vitro assays. Oltrogge JB, et al. **Int J Biol Markers** 1997 Jan-Mar;12(1):15-7

Immunocytochemical localization of Cathepsin D and CA 125 in ovarian cancer. Athanassiadou P, et al. **Int J Gynaecol Obstet** 1997 Jan;56(1):31-7

Minimal deviation adenocarcinoma of the uterine cervix has abnormal expression of sex steroid receptors, CA125, and gastric mucin. Toki T, et al. **Int J Gynecol Pathol** 1997 Apr;16(2):111-6

Meconium peritonitis: changes in fetal C-reactive protein and CA 125 levels in relation to stage of disease. Ohmichi M, et al. **J Ultrasound Med** 1997 Apr;16(4):289-92

Amniotic fluid and maternal serum levels of CA125 in pregnancies affected by Down syndrome: a re-evaluation of the role of CA125 in Down syndrome screening. Spencer K, et al. **Prenat Diagn** 1997 Aug;17(8):701-6

[Tuberculous pleuro-peritonitis showing increased levels of CA125] Hirose T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):196-200 (Eng. Abstr.) **(Jpn)**

[The value of CA 125 levels in serum, peritoneal fluid and tumor in women with ovarian cancer] Markowska J, et al. **Ginekol Pol** 1996 Jul;67(7):352-6 (Eng. Abstr.) **(Pol)**

BIOSYNTHESIS

Human peritoneal mesothelial cells are more potent than ovarian cancer cells in producing tumor marker CA-125. Zeimet AG, et al. **Gynecol Oncol** 1996 Sep;62(3):384-9

BLOOD

Clinical usefulness of endometrial aspiration cytology and CA-125 in the detection of fallopian tube carcinoma. Takeshima N, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1445-50

Increased serum CA125 levels in plasma cell dyscrasias. Iwasaki T, et al. **Acta Haematol** 1997;98(2):104-8

Less infusion pain and elevated level of cancer antigen 125 by the use of a new and more biocompatible PD fluid. Simonsen O, et al. **Adv Perit Dial** 1996;12:156-60

Correlation of findings on transvaginal sonography with serum CA 125 levels. Troiano RN, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1587-90

Elevated serum CA 125 concentration in patients with tuberculous peritonitis: a case-control study. Simsek H, et al. **Am J Gastroenterol** 1997 Jul;92(7):1174-6

CA 125: when not to perform [letter] Edelman M, et al. **Am J Obstet Gynecol** 1996 May;174(5):1671

Correlation of basal menses CA-125 levels and 6 month pregnancy rates in women undergoing treatments for infertility without assisted reproductive methods. Check JH, et al. **Am J Reprod Immunol** 1997 Apr;37(4):315-9

Quantification of vascular density and of lumen and vessel morphology in endometrial carcinoma. Evaluation of their relation to serum levels of tissue polypeptide-specific antigen and CA-125. Willemse F, et al. **Anal Quant Cytol Histol** 1997 Feb;19(1):1-7

The clinical value of tumour markers in the management of ovarian cancer. Rustin GJ. **Ann Clin Biochem** 1996 Jul; 33 (Pt 4):284-9

CA 125 as an indicator of pleural metastases in breast cancer patients. Krämer S, et al. **Anticancer Res** 1996 Sep-Oct; 16(5B):3165-8

A comparative study of serum alpha-beta A immunoreactive inhibin and tumor-associated antigens CA125 and CEA in ovarian cancer. Phocas I, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3827-31

Combined use of urinary UGP and serum CA 125 in the diagnosis of gynecological cancers. Plebani M, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3833-8

Serum CA 125 levels and survival in advanced ovarian cancer. Münstedt K, et al. **Arch Gynecol Obstet** 1997; 259(3):117-23

Struma ovarii presenting as acute pseudo-Meigs syndrome with an elevated CA 125 level. Bethune M, et al. **Aust N Z J Obstet Gynaecol** 1996 Aug;36(3):372-3

Serum MCA, CA 125 and CA 19.9 determination in primary breast cancer. Yenisey C, et al. **Biochem Soc Trans** 1996 May;24(2):302S

Ca125 and neuron-specific enolase (NSE) as tumour markers for intra-abdominal desmoplastic small round-cell tumours. Fizazi K, et al. **Br J Cancer** 1997;75(1):76-8

Trial of isotretinoin and calcitriol monitored by CA 125 in patients with ovarian cancer. Rustin GJ, et al. **Br J Cancer** 1996 Nov;74(9):1479-81

High serum levels of CA125 and interleukin-6 in a patient with Ki-1 lymphoma. Kubonishi I, et al. **Br J Haematol** 1997 Aug;98(2):450-2

Serum concentrations of cancer antigen 125, placental alkaline phosphatase, cancer-associated serum antigen and free beta human chorionic gonadotrophin as prognostic markers for epithelial ovarian cancer. Ind T, et al. **Br J Obstet Gynaecol** 1997 Sep;104(9):1024-9

Serum levels of the tumour-associated trypsin inhibitor in patients with endometriosis [letter; comment] Rosenthal A. **Br J Obstet Gynaecol** 1997 Aug;104(8):970-1. Comment on: Br J Obstet Gynaecol 1997 Jan;104(1):78-81.

Clinical evaluation of the Byk LIA-mat CA125 II assay: discussion of a reference value. Bonfrer JM, et al. **Clin Chem** 1997 Mar;43(3):491-7

Serum CA-125 concentrations during midfollicular phase, a clinically useful and reproducible marker in diagnosis of advanced endometriosis. Hompes PG, et al. **Clin Chem** 1996 Nov;42(11):1871-4

False positive pleural biopsy and high CA125 levels in serum and pleural effusion in systemic lupus erythematosus. Yücel AE, et al. **Clin Rheumatol** 1996 May;15(3):295-7

The value of cancer antigen 125 (CA 125) during treatment and follow-up of patients with ovarian cancer. de Bruijn HW, et al. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):8-13 (64 ref.)

Comparison of four 'second generation' immunoassay systems to determine CA 125 in serum by using a graphical approach to method comparison analysis. Koper NP, et al. **Eur J Clin Chem Clin Biochem** 1997 Aug;35(8):617-23

Maternal serum CA 125 is of prognostic value in patients with uterine bleeding in the detection of small-for-gestational-age neonates. Mazor M, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug;67(2):143-7

An antibody-lectin sandwich assay for the determination of CA125 antigen in ovarian cancer patients. Madiyalakan R, et al. **Glycoconj J** 1996 Aug;13(4):513-7

Use of a second-generation CA125 assay in gynecologic patients. Hornstein MD, et al. **Gynecol Obstet Invest** 1996; 42(3):196-200

Preoperative value of CA 125 as a reflection of tumor grade in epithelial ovarian cancer. But I, et al. **Gynecol Oncol** 1996 Nov;63(2):166-72

Pure alveolar rhabdomyosarcoma of the corpus uteri: description of a case with increased serum level of CA-125. Chiarle R, et al. **Gynecol Oncol** 1997 Aug;66(2):320-3 (19 ref.)

Effect of low-dose oral etoposide on serum CA-125 in patients with advanced epithelial ovarian cancer. de Jong RS, et al. **Gynecol Oncol** 1997 Aug;66(2):197-201

Pelvic hematoma following angiography: another cause of elevated serum CA-125. Eddy GL Sr. **Gynecol Oncol** 1997 May;65(2):370-2

The relationship between postoperative decline of serum CA 125 levels and size of residual disease after initial surgery in patients with advanced ovarian cancer: a CTF study. Gadducci A, et al. **Gynecol Oncol** 1996 Nov;63(2):234-7

Normalization of the tumor marker CA-125 after oophorectomy in a patient with paraneoplastic cerebellar degeneration without detectable cancer. Mason WP, et al. **Gynecol Oncol** 1997 Apr;65(1):173-6

Improvement of clinical staging in cervical cancer with serum squamous cell carcinoma antigen and CA 125 determinations. Massuger LF, et al. **Gynecol Oncol** 1997 Mar;64(3):473-6

Ovarian vein vs peripheral blood CA125 serum levels: a comparative study. Podnos YD, et al. **Gynecol Oncol** 1997 Jul;66(1):71-4

Preevacuation serum CA 125 in complete hydatidiform mole.

Tangtrakul S, et al. **Gynecol Oncol** 1997 Mar;64(3):487–9
Significance of a single CA 125 assay combined with ultrasound in the early detection of ovarian and endometrial cancer. Vuento MH, et al. **Gynecol Oncol** 1997 Jan; 64(1):141–6
Serum CA–125 screening for ovarian cancer in patients with dermatomyositis. Whitmore SE, et al. **Gynecol Oncol** 1997 May;65(2):241–4
Serum CA 125 as a marker of hepatocellular carcinoma. Lopez JB, et al. **Int J Biol Markers** 1996 Jul–Sep; 11(3):178–82
CA 125: a misleading tumor marker? Schrijvers D, et al. **Int J Gynaecol Obstet** 1996 Nov;55(2):179–80
Rise of serum CA 125 in patients with pure ovarian yolk sac tumors. Sekiya S, et al. **Int J Gynaecol Obstet** 1997 Sep;58(3):323–4
Elevated CA 125 in advanced abdominal or pelvic tuberculosis. Sheth SS. **Int J Gynaecol Obstet** 1996 Feb; 52(2):167–71
Comparison of CA 125 assays with abdominopelvic computed tomography and transvaginal ultrasound in monitoring of ovarian cancer. Sugiyama T, et al. **Int J Gynaecol Obstet** 1996 Sep;54(3):251–6
Elevated serum insulin–like growth factor–binding protein 2 (IGFBP–2) and decreased IGFBP–3 in epithelial ovarian cancer: correlation with cancer antigen 125 and tumor–associated trypsin inhibitor. Flyvbjerg A, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2308–13
Phase II trial of oral altretamine for relapsed ovarian carcinoma: evaluation of defining response by serum CA125. Rustin GJ, et al. **J Clin Oncol** 1997 Jan;15(1):172–6
CA 125 as a screening test for ovarian cancer. Hakama M, et al. **J Med Screen** 1996;3(1):40–2
Elevation of carcinoembryonic antigen and CA–125 in a patient with multivisceral tuberculosis. Mansour M, et al. **J Natl Med Assoc** 1997 Feb;89(2):142–3
Ascites with a raised CA 125. D'Souza DJ, et al. **J R Soc Med** 1997 Aug;90(8):448–9
Pelvic inflammatory disease. Correlation of severity with CA–125 levels. Moley KH, et al. **J Reprod Med** 1996 May; 41(5):341–6
Transvaginal color Doppler and CA125 as tools in the differential diagnosis of postmenopausal ovarian masses. Botsis D, et al. **Maturitas** 1997 Apr;26(3):203–9
Value of preoperative CA 125 level in the management of uterine cancer and prediction of clinical outcome. Sood AK, et al. **Obstet Gynecol** 1997 Sep;90(3):441–7
Second–trimester maternal serum CA–125 versus estriol in the multiple–marker screening test for Down syndrome. Wenstrom KD, et al. **Obstet Gynecol** 1997 Mar; 89(3):359–63
Ovarian cancer patients with high CA–125 but no symptoms—should antiangiogenic treatments be considered? Sharma A, et al. **Oncol Res** 1997;9(2):53–4 (13 ref.)
OVCA (CA125) second generation: technical aspects and serum levels in controls, patients with liver disease, pregnant women and patients with ovarian disease. Cioffi M, et al. **Tumori** 1997 Mar–Apr;83(2):594–8
Transvaginal ultrasound and computed tomography combined with clinical parameters and CA–125 determinations in the differential diagnosis of persistent ovarian cysts in premenopausal women. Guerriero S, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):339–43
[Benign increase of tumor marker Ca 12–5 in pelvic peritonitis with ascites] Löseke A, et al. **Geburtshilfe Frauenheilkd** 1996 Jul;56(7):365–7 (Eng. Abstr.) **(Ger)**
[Evaluation of an immunoenzymatic method to determine the tumor marker CA 125] Baghino E, et al. **Minerva Med** 1996 Oct;87(10):491–3 (Eng. Abstr.) **(Ita)**
[Hydronephrosis associated with elevated serum levels of CA 125 antigen. Report of a case] Giordano S, et al. **Minerva Pediatr** 1996 Jul–Aug;48(7–8):333–5 (Eng. Abstr.) **(Ita)**
[A case of catamenial pneumothorax with elevated level of serum CA 125] Kokubo K, et al. **Kyobu Geka** 1996 Dec; 49(13):1127–9 (Eng. Abstr.) **(Jpn)**
[Usefulness of clinical evaluation for the level of CA–125 antigen and ultrasonographic color Doppler examination in diagnosis of ovarian tumor] Czekierdowski A, et al. **Ginekol Pol** 1996 Nov;67(11):552–6 (Eng. Abstr.) **(Pol)**
[Value of CA 125 as a tumor marker in ovarian carcinoma] Barrios CH, et al. **Rev Assoc Med Bras** 1995 Sep–Oct; 41(5):329–32 (33 ref.) (Eng. Abstr.) **(Por)**

CHEMISTRY

Isolation and characterization of ovarian cancer antigen CA 125 using a new monoclonal antibody (VK–8): identification as a mucin–type molecule. Lloyd KO, et al. **Int J Cancer** 1997 May 29;71(5):842–50
Immunohistochemical characterization of 22 monoclonal antibodies against the CA125 antigen: 2nd report from the ISOBM TD–1 Workshop. Nap M, et al. **Tumour Biol** 1996; 17(6):325–31

DRUG EFFECTS

Paclitaxel– and docetaxel–dependent activation of CA–125 expression in human ovarian carcinoma cells. Marth C, et al. **Cancer Res** 1997 Sep 1;57(17):3818–22
Effect of low–dose oral etoposide on serum CA–125 in patients with advanced epithelial ovarian cancer. de Jong RS, et al. **Gynecol Oncol** 1997 Aug;66(2):197–201

IMMUNOLOGY

Comparison of four 'second generation' immunoassay systems to determine CA 125 in serum by using a graphical approach to method comparison analysis. Koper NP, et al. **Eur J Clin Chem Clin Biochem** 1997 Aug;35(8):617–23
Immunohistochemical phenotype of malignant mesothelioma: predictive value of CA125 and HBME–1 expression. Bateman AC, et al. **Histopathology** 1997 Jan;30(1):49–56
OVAREX MAb–B43.13:IFN–gamma could improve the ovarian tumor cell sensitivity to CA125–specific allogenic cytotoxic T cells. Madiyalakan R, et al. **Hybridoma** 1997 Feb;16(1):41–5
Are human anti–idiotypic anti–OC125 antibodies formed after immunization with the anti–CA125 antibody B43.13? Reinsberg J, et al. **Hybridoma** 1997 Feb;16(1):59–63
Production of a single–chain fragment of the murine anti–idiotypic antibody ACA125 as phage–displayed and soluble antibody by recombinant phage antibody technique. Schlebusch H, et al. **Hybridoma** 1997 Feb;16(1):47–52
Immunological responses to the tumor–associated antigen CA125 in patients with advanced ovarian cancer induced by the murine monoclonal anti–idiotype vaccine ACA125. Wagner U, et al. **Hybridoma** 1997 Feb;16(1):33–40
How to overcome the disturbing effects of human anti–mouse antibodies (HAMA) on in vitro assays. Oltrogge JB, et al. **Int J Biol Markers** 1997 Jan–Mar;12(1):15–7
Generation of human monoclonal anti–idiotypic antibodies with specificity to the murine monoclonal anti–CA 125 antibody B43.13. Oltrogge JB, et al. **Int J Biol Markers** 1996 Oct–Dec;11(4):211–5
Distribution of radiolabelled anti–CA125 monoclonal antibody OC125–F(ab)2–fragment following resection guided by antibodies (REGAJ) in ovarian cancer patients. Uttenreuther–Fischer MM, et al. **J Clin Lab Anal** 1997; 11(2):94–103
[Antibodies to cardiolipin and tumor–associated antigens CA–125 and CA–19–9 in patients with ovarian tumors] Karpov NI, et al. **Klin Med (Mosk)** 1996;74(4):42–5 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Isolation and characterization of ovarian cancer antigen CA 125 using a new monoclonal antibody (VK–8): identification as a mucin–type molecule. Lloyd KO, et al. **Int J Cancer** 1997 May 29;71(5):842–50

METABOLISM

Effect of charge on the interaction of site–specific photoimmunoconjugates with human ovarian cancer cells. Hamblin MR, et al. **Cancer Res** 1996 Nov 15;56(22):5205–10
False positive pleural biopsy and high CA125 levels in serum and pleural effusion in systemic lupus erythematosus. Yücel AE, et al. **Clin Rheumatol** 1996 May;15(3):295–7
Serum and peritoneal CA–125 levels as diagnostic test for endometriosis. Colacurci N, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 May;66(1):41–3
Radiation–induced CA 125 production by mesothelial cells. Carpenter PM, et al. **Gynecol Oncol** 1996 Dec;63(3):328–32
CA–125 levels after surgical exploration and radioactive chromic phosphate in ovarian cancer patients. Makhija S, et al. **Gynecol Oncol** 1996 Oct;63(1):85–8
Serum alpha L–fucosidase enzyme activity in ovarian and other female genital tract tumors. Abdel–Aleem H, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):273–9
An autopsy case of malignant lymphoma with a high serum CA 125 level occurring only in the brain and pericardium. Watanabe M, et al. **J Med** 1996;27(3–4):221–7
Longitudinal follow–up of CA125 in peritoneal effluent. Ho–dac–Pannekeet MM, et al. **Kidney Int** 1997 Mar; 51(3):888–93
Effect of paclitaxel (Taxol) on CA 125 expression and release by ovarian cancer cell lines. Bonfrer JM, et al. **Tumour Biol** 1997;18(4):232–40
CA125 phosphorylation is associated with its secretion from the WISH human amnion cell line. Fendrick JL, et al. **Tumour Biol** 1997;18(5):278–89

CA ANTIGENS see ANTIGENS, TUMOR–ASSOCIATED, CARBOHYDRATE

CA(2+) MG(2+)-ATPASE

see related
CA(2+)–TRANSPORTING ATPASE

ANTAGONISTS & INHIBITORS

Calponin inhibits actin–activated MgATPase of myosin subfragment 1 (S1) without displacing S1 from its binding site on actin. Kołakowski J, et al. **Eur J Biochem** 1997 Feb 1;243(3):624–9
Effect of N,N–dimethylalkylamine N–oxides on the activity of purified sarcoplasmic reticulum (Ca–Mg)ATPase. Andriamainty F, et al. **Pharmazie** 1997 Mar;52(3):240–2

BIOSYNTHESIS

Cloning, sequencing and expression of VAT, a CDC48/p97 ATPase homologue from the archaeon Thermoplasma acidophilum. Pamnani V, et al. **FEBS Lett** 1997 Mar 10; 404(2–3):263–8

BLOOD

Effects of 4–OH–2,3–trans–nonenal on human erythrocyte plasma membrane Ca2+ pump and passive Ca2+ permeability. Raess BU, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):451–4
Characterization of the correlation between ATP–dependent aminophospholipid translocation and Mg2+–ATPase activity in red blood cell membranes. Beleznay Z, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):58–65

CHEMISTRY

Does the gamma subunit move to an abortive position of ATP hydrolysis when the F1.ADP.Mg complex isomerizes to the inactive F1*.ADP.Mg complex? Allison WS, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):433–8 (30 ref.)

DRUG EFFECTS

The effects of the pretreatment of intravenous high dose methylprednisolone on Na(+)–K(+)/Mg(+2) ATPase and lipid peroxidation and early ultrastructural findings following middle cerebral artery occlusion in the rat. Ildan F, et al. **Acta Neurochir (Wien)** 1996;138(3):338–45
The effects of in vivo exposure to cadmium, copper and zinc on the activities of gill ATPases in the Norway lobster, Nephrops norvegicus. Canli M, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):494–501
Effect of propranolol on rat brain synaptosomal Na(+)–K(+)–ATPase, Mg(2+)–ATPase and Ca(2+)–ATPase. Gopalaswamy UV, et al. **Chem Biol Interact** 1997 Jan 24;103(1):51–8
Erythrocyte Na+, K+ and Ca2+, Mg(2+)–ATPase activities in hypertensives on angiotensin–converting enzyme inhibitors. Golik A, et al. **Clin Biochem** 1996 Jun; 29(3):249–54
Evidence for the presence of two (Ca(2+)–Mg2+) ATPases with different sensitivities to thapsigargin and cyclopiazonic acid in the human flatworm Schistosoma mansoni. Cunha VM, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jun; 114(2):199–205
Praziquantel has no direct effect on (Na(+)+K+)–ATPases and (Ca2(+)–Mg2+)ATPases of Schistosoma mansoni. Cunha VM, et al. **Life Sci** 1997;60(20):PL 289–94

METABOLISM

Isoform–independent heart rate–related variation in cardiac myofibrillar Ca(2+)–activated Mg(2+)–ATPase activity. Rouslin W, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1271–6
Differential regulation of cardiac actomyosin S–1 MgATPase by protein kinase C isozyme–specific phosphorylation of specific sites in cardiac troponin I and its phosphorylation site mutants. Noland TA Jr, et al. **Biochemistry** 1996 Nov 26;35(47):14923–31
Molecular and macromolecular specificity of human plasma phospholipid transfer protein. Rao R, et al. **Biochemistry** 1997 Mar 25;36(12):3645–53
A comparative study of (Ca(2+)–Mg2+)–ATPase on the lysosomal membrane and ecto–ATPase on the plasma membrane from rat liver. Adachi T, et al. **Biol Pharm Bull** 1996 Oct;19(10):1291–7
ATPase activity of myosin in hair bundles of the bullfrog's sacculus. Burlacu S, et al. **Biophys J** 1997 Jan;72(1):263–71
Intermolecular coupling between loop 38–52 and the C–terminus in actin filaments. Kim E, et al. **Biophys J** 1996 Oct;71(4):1914–9
Catalytic and structural modifications of sarcoplasmic reticulum and plasma membrane (Ca(2+) + Mg2+) ATPases induced by organic solutes that accumulate in living systems. Vieyra A. **Biosci Rep** 1996 Apr;16(2):115–27 (53 ref.)
Okadaic acid as a probe for regulation in vitro of Mg(2+), Ca(2+)–ATPase activity in rat cortical and cerebellar synaptosomal membranes. Zylinska L, et al. **Cell Signal** 1996 Sep;8(6):443–8
Influences of somatotropin on Na(+)–K(+)–ATPase, Mg(2+)–ATPase and Ca(2+)–ATPases of Porcine visceral tissues. Caperna TJ, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):13–8
Evidence for the presence of two (Ca(2+)–Mg2+) ATPases with different sensitivities to thapsigargin and cyclopiazonic acid in the human flatworm Schistosoma mansoni. Cunha VM, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jun; 114(2):199–205
Atrial natriuretic peptide and cyclic nucleotides affect glucose–induced Ca2+ responses in single pancreatic islet beta–cells: correlation with (Ca[2+] + Mg2+)–ATPase activity. Lee B, et al. **Diabetes** 1997 Aug;48(8):1312–8
Redistribution of Ca2+, Mg2+–ATPase activity in relation to alterations of the cytoskeleton and tight junctions in hepatocytes of cholestatic rat liver. Song JY, et al. **Eur J Cell Biol** 1996 Nov;71(3):277–85
Plasma membrane calcium–ATPase in cultured human retinal pigment epithelium. Kennedy BG, et al. **Exp Eye Res** 1996 Nov;63(5):547–56

CA(2+) MG(2+)-ATPASE

Influence of thyroxine on different ion-dependent ATPase activities in fat body of tasar silkworm, Antheraea mylitta D. Reddy KD, et al. **Gen Comp Endocrinol** 1996 Oct; 104(1):20–8

The membrane effect of benfluron: modulation of the heart sarcolemmal (Na+, K+)-ATPase and Mg(2+)-ATPase activities. Džurba A, et al. **Gen Physiol Biophys** 1996 Feb; 15(1):71–5

Enzyme kinetics and the activation energy of Mg–ATPase in cardiac sarcolemma: ADP as an alternative substrate. Vrbjar N, et al. **Gen Physiol Biophys** 1995 Aug;14(4):313–21

Does the gamma subunit move to an abortive position of ATP hydrolysis when the F1.ADP.Mg complex isomerizes to the inactive F1*.ADP.Mg complex? Allison WS, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):433–8 (30 ref.)

Cooperative effect of calcium binding to adjacent troponin molecules on the thin filament–myosin subfragment 1 MgATPase rate. Butters CA, et al. **J Biol Chem** 1997 May 16;272(20):13196–202

The phospholipid flippase activity of gastric vesicles. Suzuki H, et al. **J Biol Chem** 1997 Apr 18;272(16):10429–34

Mg(2+)-dependent and Ca2+, Mg(2+)-dependent ATPase activities in the harderian gland of rodents: age and sex influences. Vaughan MK, et al. **Microsc Res Tech** 1996 Jun 1;34(2):144–8

Activatory effect of regucalcin on hepatic plasma membrane (Ca(2+)-Mg2+)-ATPase is impaired by liver injury with carbon tetrachloride administration in rats. Takahashi H, et al. **Mol Cell Biochem** 1996 May 10;158(1):9–16

Enhancement of plasma membrane (Ca(2+)-Mg2+)-ATPase activity in regenerating rat liver: involvement of endogenous activating protein regucalcin. Takahasi H, et al. **Mol Cell Biochem** 1996 Sep 20;162(2):133–8

Manipulation of the phosphatidylethanolamine pool in the human red cell membrane affects its Mg2+-ATPase activity. Vermeulen WP, et al. **Mol Membr Biol** 1996 Apr–Jun;13(2):95–102

Is the Mg(2+)-ATP-dependent proton pumping activity of the synaptic vesicles a factor involved in the cerebral hypoxia? Benzi G, et al. **Neurochem Res** 1996 Jan;21(1):7–18

Mg2+/Ca(2+)-ATPase activity is not enriched in synaptic vesicles isolated from rat cerebral cortex. Rodríguez de Lores Arnaiz G, et al. **Neurochem Res** 1997 Mar; 22(3):293–6

Effect of ischemia of the rabbit bladder on Ca-Mg-activated ATP-ase activity. Soyupak B, et al. **Neurourol Urodyn** 1996;15(6):666–71

[Mechanism of action of ginsenoside Rb1 in decreasing intracellular Ca2+] Jiang XY, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):321–6 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

Ischemia-induced inhibition of calcium uptake into rat brain microsomes mediated by Mg2+/Ca2+ ATPase. Parsons JT, et al. **J Neurochem** 1997 Mar;68(3):1124–34

Properties of Ca2(+)-Mg2+ ATP-ase in rabbit bladder muscle and mucosa: effect of urinary outlet obstruction. Haugaard N, et al. **Neurourol Urodyn** 1996;15(5):555–61

CA(2+)-TRANSPORTING ATPASE

see related
CA(2+) MG(2+)-ATPASE

The targeting of the plasma membrane calcium pump in the cell. Guerini D, et al. **Biosci Rep** 1996 Apr;16(2):129–37 (40 ref.)

[Ca2+ -ATPase] Furukawa KI. **Nippon Rinsho** 1996 Mar; 54(3):601–6 (20 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

Qualitative enzyme histochemistry and microanalysis reveals changes in ultrastructural distribution of calcium and calcium-activated ATPases after microwave irradiation of the medial habenula. Kittel A, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):362–8

Lack of difference in oxalate-dependent Ca2+ uptake by membrane homogenate of African-American and white subjects. Yang XY, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):434–9

Ischemia-induced alterations in sarcoplasmic reticulum Ca(2+)-ATPase activity in rat soleus and EDL muscles. Green HJ, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1942–8

Isoforms of endoplasmic reticulum Ca(2+)-ATPase are differentially expressed in normal and diabetic islets of Langerhans. Váradi A, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):521–7

Evidence that an anti-SERCA1 monoclonal antibody recognizes the SERCA2b calcium pump in pig brain. Salvador JM, et al. **Biochem Soc Trans** 1997 May;25(2):169S

Distribution of the organellar Ca2+ transport ATPase SERCA2 isoforms in the cat brain. Baba-Aïssa F, et al. **Brain Res** 1996 Dec 16;743(1–2):141–53

Cytochemical localization of Ca(2+)-ATPases and demonstration of ATP-dependent calcium sequestration in giant smooth muscle fibres of Beroe. Cario C, et al. **J Muscle Res Cell Motil** 1996 Feb;17(1):85–94

ANTAGONISTS & INHIBITORS

Parvalbumin relaxes frog skeletal muscle when sarcoplasmic reticulum Ca(2+)-ATPase is inhibited. Jiang Y, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C411–7

Agonist- and CPA-induced elevation of cytoplasmic free Ca2+ in intact valvular endothelium from rabbits. Li L, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H837–48

Buffering of plasmalemmal Ca2+ current by sarcoplasmic reticulum of guinea pig urinary bladder myocytes. Yoshikawa A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C833–41

Inhibition of plasma membrane Ca(2+)-ATPase by volatile anesthetics [letter] Kosk-Kosicka D. **Anesthesiology** 1996 Nov;85(5):1211–2

Ca2+-ATPase inhibitors and Ca2+-ionophore induce osteoclast-like cell formation in the cocultures of mouse bone marrow cells and calvarial cells. Takami M, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):111–5

Rapid Ca2+ influx induced by the action of dibutylhydroquinone and glucagon in the perfused rat liver. Applegate TL, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):463–7

An investigation of the mechanism of inhibition of the Ca(2+)-ATPase by phospholamban. Hughes G, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):973–9

Purification of a protein inhibitor of erythrocyte plasma membrane Ca(2+)-ATPase by Ca(2+)-ATPase-sepharose affinity chromatography. Au KS. **Biochem Mol Biol Int** 1996 May;39(1):197–203

Pre-steady-state kinetic study of the mechanism of inhibition of the plasma membrane Ca(2+)-ATPase by lanthanum. Herscher CJ, et al. **Biochemistry** 1996 Nov 26; 35(47):14917–22

Entropy-driven interactions of anesthetics with membrane proteins. Lopez MM, et al. **Biochemistry** 1997 Jul 22; 36(29):8864–72

Mechanism of inhibition of E1-E2 ATPases by melittin. Murtazina DA, et al. **Biochemistry (Mosc)** 1997 Jan; 62(1):54–61

Replacement of Val674 by Pro increases the sensitivity of the plasma membrane Ca2+ pump to inhibition by Mg2+. Adamo HP, et al. **Biochim Biophys Acta** 1997 Feb 21; 1324(1):85–90

Effects of calmodulin antagonists on calcium pump and cytosolic calcium level in human neutrophils. Capuozzo E, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):123–7

Effect of haloperidol on the sarcoplasmic reticulum Ca-dependent adenosine triphosphatase. Takara D, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1–2):57–65

Alterations in the force-frequency relationship by tert-butylbenzohydroquinone, a putative SR Ca2+ pump inhibitor, in rabbit and rat ventricular muscle. Baudet S, et al. **Br J Pharmacol** 1996 Jan;117(2):258–67

Differential effects of tert-butyl-benzohydroquinone, a putative SR Ca2+ pump inhibitor, on isometric relaxation during the staircase in the rabbit and rat ventricle. Baudet S, et al. **Br J Pharmacol** 1996 Jan;117(2):268–76

Inhibition of prostanoid formation in intact cells by 2,5-di-(tert-butyl)-1,4-benzohydroquinone, a blocker of Ca(2+)-ATPases. Leis HJ, et al. **Br J Pharmacol** 1996 Feb; 117(3):540–544

Effects of cyclopiazonic acid and thapsigargin on electromechanical activities and intracellular Ca2+ in smooth muscle of carotid artery of hypertensive rats. Sekiguchi F, et al. **Br J Pharmacol** 1996 Jun;118(4):857–64

Two distinct membrane currents activated by cyclopiazonic acid-induced calcium store depletion in single smooth muscle cells of the mouse anococcygeus. Wayman CP, et al. **Br J Pharmacol** 1996 Feb;117(3):566–572

Comparison of effects of verapamil and quercetin on delayed polyneuropathy induced by Tri-o-cresyl phosphate in hens. Wu YJ, et al. **Bull Environ Contam Toxicol** 1997 Apr; 58(4):611–8

Effects of inhibition of sarcoplasmic reticulum calcium uptake on contraction in myocytes isolated from failing human ventricle. Davia K, et al. **Cardiovasc Res** 1997 Jan; 33(1):88–97

SK&F 96365 inhibits intracellular Ca2+ pumps and raises cytosolic Ca2+ concentration without production of nitric oxide and von Willebrand factor. Iouzalen L, et al. **Cell Calcium** 1996 Dec;20(6):501–8

Oxidized low density lipoprotein inhibits platelet plasma membrane Ca(2+)-ATPase. Zhao B, et al. **Cell Calcium** 1996 May;19(5):453–8

Chronic inhibition of intracellular Ca2+ release or protein kinase C activation significantly reduces the development of morphine dependence. Fundytus ME, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):173–81

Cyclopiazonic acid-induced changes in contractile activity of smooth muscle strips isolated from cat and guinea-pig stomach. Petkov GV, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):109–15

Neomycin inhibits histamine and thapsigargin mediated Ca2+ entry in DDT1 MF-2 cells independent of phospholipase C activation. Sipma H, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):207–12

Comparison of tBuBHQ with chemotactic peptide and phorbol ester in O2- production in HL-60 cells. Tsukii K, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):87–95

Suppression of apoptotic cell death of IL-3-dependent cell lines by ER/SR Ca2+-ATPase inhibitors upon IL-3 deprivation. Palaga T, et al. **Exp Cell Res** 1996 Oct 10; 228(1):92–7

Mast cell activation involves plasma membrane potential- and thapsigargin-sensitive intracellular calcium pools. Kassel O, et al. **Fundam Clin Pharmacol** 1995;9(6):531–9

Cardiac sarcoplasmic reticulum Ca2+ pump as a target for benzoquinones. Floreani M, et al. **Gen Pharmacol** 1996 Jul; 27(5):873–8

Cardiac mechanical and electrophysiologic modulations of guinea-pig by caffeine and thapsigargin. Nario K, et al. **Gen Pharmacol** 1996 Oct;27(7):1227–35

Effects of three different Ca(2+)-ATPase inhibitors on Ca2+ response and leukotriene release in RBL-2H3 cells. Akasaka R, et al. **Inflamm Res** 1996 Dec;45(12):583–9

Inhibition of sarco-endoplasmic reticulum calcium ATPases (SERCA) by polycyclic aromatic hydrocarbons: lack of evidence for direct effects on cloned rat enzymes. Zhao M, et al. **Int J Immunopharmacol** 1996 Oct;18(10):589–98

Deletion of amino acid residues 18–75 inactivates the plasma membrane Ca2+ pump. Grimaldi ME, et al. **J Biol Chem** 1996 Oct 25;271(43):26995–7

Hydroperoxide-induced increases in intracellular calcium due to annexin VI translocation and inactivation of plasma membrane Ca2+-ATPase. Hoyal CR, et al. **J Biol Chem** 1996 Nov 15;271(46):29205–10

Phospholamban inhibitory function is activated by depolymerization. Kimura Y, et al. **J Biol Chem** 1997 Jun 13;272(24):15061–4

On the inhibition mechanism of sarcoplasmic or endoplasmic reticulum Ca2+-ATPases by cyclopiazonic acid. Plenge-Tellechea F, et al. **J Biol Chem** 1997 Jan 31; 272(5):2794–800

Store-operated Ca2+ entry and coupling to Ca2+ pool depletion in thapsigargin-resistant cells. Waldron RT, et al. **J Biol Chem** 1997 Mar 7;272(10):6440–7

Thapsigargin inhibits the response to acetylcholine and substance P but does not interfere with the responses to endothelium-independent agents. Amerini S, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):82–8

Simvastatin releases Ca2+ from a thapsigargin-sensitive pool and inhibits InsP3-dependent Ca2+ mobilization in vascular smooth muscle cells [published erratum appears in J Cardiovasc Pharmacol 1996 Aug;28(2):344] Escobales N, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):383–91

Effects of thapsigargin and cyclopiazonic acid on intracellular calcium activity in newborn rat cardiomyocytes during their development in primary culture. Gomez JP, et al. **J Cardiovasc Pharmacol** 1996 Mar; 27(3):335–46

Capacitative calcium entry in rat Sertoli cells. Rossato M, et al. **J Endocrinol Invest** 1996 Sep;19(8):516–23

Thapsigargin induces phosphorylation of the 27-kDa heat shock protein in human keratinocytes. Shi B, et al. **J Invest Dermatol** 1996 Nov;107(5):749–54

Single-dose toxicities of 2,5-di(tert-butyl)-1,4-hydroquinone in the rat: toxicants as of hydroquinone derivative or a microsomal Ca2+ ATPase inhibitor? [letter] Kitajima S, et al. **J Toxicol Sci** 1996 Aug;21(3):201–4

HPLC fractions of human uremic plasma inhibit the RBC membrane calcium pump. Lindner A, et al. **Kidney Int** 1997 Apr;51(4):1042–52

Oxidative damage to sarcoplasmic reticulum Ca(2+)-pump induced by Fe2+/H2O2/ascorbate is not mediated by lipid peroxidation or thiol oxidation and leads to protein fragmentation. Castilho RF, et al. **Mol Cell Biochem** 1996 Jun 21;159(2):105–14

Effects of trifluralin and oryzalin on the human erythrocyte Ca-ATPase. Salas V, et al. **Pharmacol Toxicol** 1996 Jun; 78(6):439–40

Effect of thapsigargin on the contractile response of the normal and obstructed rabbit urinary bladder. Rohrmann D, et al. **Pharmacology** 1996 Feb;52(2):119–24

[Influence of sarcoplasmic reticulum Ca-ATPase inhibition on carotid artery smooth muscle in stroke-prone spontaneously hypertensive rats and Wistar Kyoto rats] Sekiguchi F, et al. **J Smooth Muscle Res** 1995 Dec; 31(6):388–9 **(Jpn)**

[Effect of inhibitors of energy-dependent Ca2+-transporting systems on calcium pumps of a smooth muscle cell] Kosterin SA, et al. **Ukr Biokhim Zh** 1996 Nov–Dec; 68(6):50–61 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Regulation of vascular smooth muscle cell proliferation by plasma membrane Ca(2+)-ATPase. Husain M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1947–59

Modulation of SERCA2 expression by thyroid hormone and norepinephrine in cardiocytes: role of contractility. Muller A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1876–85

Plasma membrane calcium ATPase isoform expression in cultured rat mesangial cells. Rouse D, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F76–83

Fiber-specific regulation of Ca(2+)-ATPase isoform expression by thyroid hormone in rat skeletal muscle. van der Linden CG, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1908–19

Changes in atrial natriuretic factor (ANF) and Ca+2 ATPase mRNA transcriptional activity are markers of myocardial integrity during continuous warm blood cardioplegia (CWBCP) in rats. Remsey ES, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:419–22

Elevated plasma membrane and sarcoplasmic reticulum Ca2+ pump mRNA levels in cultured aortic smooth

muscle cells from spontaneously hypertensive rats. Monteith GR, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):344–6

Expression of MyoD in cultured primary myotubes is dependent on contractile activity: correlation with phenotype-specific expression of a sarcoplasmic reticulum Ca(2+)-ATPase isoform. Muller A, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):198–204

cDNA cloning, expression and chromosomal localization of the human sarco/endoplasmic reticulum Ca(2+)-ATPase 3 gene [published erratum appears in Biochem J 1996 Nov 1;319(pt 3):1008] Dode L, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):689–99

Purkinje neurons express the SERCA3 isoform of the organellar type Ca(2+)-transport ATPase. Baba-Aïssa F, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):169–74

Seizure-induced alterations of plasma membrane calcium ATPase isoforms 1, 2 and 3 mRNA and protein in rat hippocampus. Garcia ML, et al. **Brain Res Mol Brain Res** 1997 May;45(2):230–8

mRNA expression of the four isoforms of the human plasma membrane Ca(2+)-ATPase in the human hippocampus. Zacharias DA, et al. **Brain Res Mol Brain Res** 1997 Apr; 45(1):173–6

Expression of sarcoplasmic reticulum Ca2+ -ATPase mRNA in the hypertrophied heart of young spontaneously hypertensive rats. Ohta K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S228–9

Modification of sarcoplasmic reticulum gene expression in pressure overload cardiac hypertrophy by etomoxir. Zarain-Herzberg A, et al. **FASEB J** 1996 Sep;10(11):1303–9

Modulation of endoplasmic reticulum calcium pump expression during T lymphocyte activation. Launay S, et al. **J Biol Chem** 1997 Apr 18;272(16):10746–50

Altered mRNA abundance of calcium transport genes in cardiac myocytes induced by angiotensin II. Ju H, et al. **J Mol Cell Cardiol** 1996 May;28(5):1119–28

Fast- and slow-twitch isoforms (SERCA1 and SERCA2a) of sarcoplasmic reticulum Ca-ATPase are expressed simultaneously in chronically stimulated muscle fibers. Zhang KM, et al. **Pflugers Arch** 1997 Apr;433(6):766–72

Cloning of a Ca(2+)-ATPase gene and the role of cytosolic Ca2+ in the gibberellin-dependent signaling pathway in aleurone cells. Chen X, et al. **Plant J** 1997 Mar;11(3):363–71

Blockade of plasma membrane calcium pumping ATPase isoform I impairs nerve growth factor-induced neurite extension in pheochromocytoma cells. Brandt PC, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13843–8

BLOOD

Effects of 4-OH-2,3-trans-nonenal on human erythrocyte plasma membrane Ca2+ pump and passive Ca2+ permeability. Raess BU, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):451–4

Dynamic structure of the calmodulin-binding domain of the plasma membrane Ca-ATPase in native erythrocyte ghost membranes. Yao Y, et al. **Biochemistry** 1996 Sep 17; 35(37):12015–28

Differences in Ca2+ pumping activity between sub-populations of human red cells. Romero PJ, et al. **Cell Calcium** 1997 May;21(5):353–8

Diabetes mellitus and subjects' ageing: a study on the ATP content and ATP-related enzyme activities in human erythrocytes. Rabini RA, et al. **Eur J Clin Invest** 1997 Apr; 27(4):327–32

HPLC fractions of human uremic plasma inhibit the RBC membrane calcium pump. Lindner A, et al. **Kidney Int** 1997 Apr;51(4):1042–52

Effects of trifluralin and oryzalin on the human erythrocyte Ca-ATPase. Salas V, et al. **Pharmacol Toxicol** 1996 Jun; 78(6):439–40

CHEMISTRY

Preservation of the native structure and function of Ca2+-ATPase from sarcoplasmic reticulum: solubilization and reconstitution by new short-chain phospholipid detergent 1,2-diheptanoyl-sn-phosphatidylcholine. Shivanna BD, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):533–42

Carboxy-terminal regions of the sarcoplasmic/endoplasmic reticulum Ca(2+)- and the Na+/K(+)-ATPases control their K+ sensitivity. Ishii T, et al. **Biochemistry** 1997 Jan 14;36(2):442–51

Identification of oxidation-sensitive peptides within the cytoplasmic domain of the sarcoplasmic reticulum Ca2+-ATPase. Viner RI, et al. **Biochemistry** 1997 Jun 24; 36(25):7706–16

Dynamic structure of the calmodulin-binding domain of the plasma membrane Ca-ATPase in native erythrocyte ghost membranes. Yao Y, et al. **Biochemistry** 1996 Sep 17; 35(37):12015–28

Vectorially oriented monolayers of detergent-solubilized Ca(2+) -ATPase from sarcoplasmic reticulum. Prokop LA, et al. **Biophys J** 1996 May;70(5):2131–43

A time-resolved Fourier transformed infrared difference spectroscopy study of the sarcoplasmic reticulum Ca(2+)-ATPase: kinetics of the high-affinity calcium binding at low temperature. Troullier A, et al. **Biophys J** 1996 Dec;71(6):2970–83

Intrinsic fluorescence as a probe of structure-function relationships in Ca(2+)-transport ATPases. Ferreira ST, et al. **Biosci Rep** 1996 Apr;16(2):87–106 (102 ref.)

Calcium ATPase activity and membrane structure in clear and cataractous human lenses. Paterson CA, et al. **Curr Eye Res** 1997 Apr;16(4):333–8

Oligomerization of sarcoplasmic reticulum Ca2+-ATPase from rabbit skeletal muscle. Maguire PB, et al. **FEBS Lett** 1996 Nov 4;396(2-3):115–8

A calmodulin-stimulated Ca2+-ATPase from plant vacuolar membranes with a putative regulatory domain at its N-terminus. Malmström S, et al. **FEBS Lett** 1997 Jan 6; 400(3):324–8

The Ca2+/calmodulin binding domain of the Ca2+-ATPase linked to the Na+,K+-ATPase alters transport stoichiometry. Zhao J, et al. **FEBS Lett** 1997 May 26;408(3):271–5

Temperature sensitivity of proteoliposomes reconstituted from a mixture of scallop and rabbit sarcoplasmic reticulum Ca2+-ATPases. Nagata Y, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):648–53

Time-resolved infrared spectroscopy of the Ca2+-ATPase. The enzyme at work. Barth A, et al. **J Biol Chem** 1996 Nov 29;271(48):30637–46

Independence of two conformations of sarcoplasmic reticulum Ca2+-ATPase molecules in hydrolyzing acetyl phosphate. A two-pair model of the ATPase structural unit. Nakamura J, et al. **J Biol Chem** 1997 Aug 1; 272(31):19290–4

Stoichiometry of phosphorylation to fluorescein 5-isothiocyanate binding in the Ca2+-ATPase of sarcoplasmic reticulum vesicles. Nakamura S, et al. **J Biol Chem** 1997 Mar 7;272(10):6232–7

Modification of arginine-198 in sarcoplasmic reticulum Ca2+-ATPase by 1,2-cyclohexanedione causes inhibition of formation of the phosphoenzyme intermediate from inorganic phosphate. Saino T, et al. **J Biol Chem** 1997 Aug 22;272(34):21142–50

PMR1, a Ca2+-ATPase in yeast Golgi, has properties distinct from sarco/endoplasmic reticulum and plasma membrane calcium pumps. Sorin A, et al. **J Biol Chem** 1997 Apr 11;272(15):9895–901

The stable, inactive but reactivatable, unfolding intermediate of rat muscle sarcoplasmic reticulum Ca(2+)-ATPase differs from the age-modified form of this protein. Bergenhem NC, et al. **J Gerontol A Biol Sci Med Sci** 1997 Sep;52(5):B240–4

The membrane topology of the amino-terminal domain of the red cell calcium pump. Castello PR, et al. **Protein Sci** 1997 Aug;6(8):1708–17

DEFICIENCY

Sarcoplasmic reticulum Ca2+ATPase and phospholamban mRNA and protein levels in end-stage heart failure due to ischemic or dilated cardiomyopathy. Flesch M, et al. **J Mol Med** 1996 Jun;74(6):321–32

DRUG EFFECTS

Sarco(endo)plasmic reticulum Ca2+ pump isoform SERCA3 is more resistant than SERCA2b to peroxide. Grover AK, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C420–5

Role of nitric oxide, cyclic GMP and superoxide in inhibition by adenosine of calcium current in rabbit atrioventricular nodal cells. Martynyuk AE, et al. **Cardiovasc Res** 1997 May; 34(2):360–7

Effect of propranolol on rat brain synaptosomal Na(+)-K(+)-ATPase, Mg(2+)-ATPase and Ca(2+)-ATPase. Gopalaswamy UV, et al. **Chem Biol Interact** 1997 Jan 24;103(1):51–8

Effects of dietary salt and angiotensin-converting enzyme inhibitor on ATP-driven Ca pump and Na/Ca exchange in aortic rings of Dahl rats. Ashida T, et al. **Clin Exp Hypertens** 1996 Aug;18(6):851–71

Sarcoplasmic reticulum Ca(2+)-pump dysfunction in rat cardiomyocytes briefly exposed to hydroxyl radicals. Morris TE, et al. **Free Radic Biol Med** 1997;22(1-2):37–47

Pharmacological differentiation between intracellular calcium pump isoforms. Engelender S, et al. **Mol Pharmacol** 1996 Nov;50(5):1243–52

Ethanol inhibits CCK-induced enzyme secretion by affecting calcium-pump activity in isolated rat pancreatic acini. Tachibana I, et al. **Pancreas** 1996 Oct;13(3):316–23

[Treatment of intact myometrial cells with oxytocin inhibits Mg2+, ATP-dependent accumulation of Ca2+ in endoplasmic reticulum] Shlykov SG, et al. **Ukr Biokhim Zh** 1996 Sep-Oct;68(5):25–34 (Eng. Abstr.) **(Rus)**

GENETICS

Regulation of SERCA 2 expression by thyroid hormone in cultured chick embryo cardiomyocytes. Fisher DJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H638–44

Phorbol 12-myristate 13-acetate alters SR Ca(2+)-ATPase gene expression in cultured neonatal rat heart cells. Qi M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1031–9

Plasma membrane calcium pump: structure, function and relationships. Carafoli E. **Basic Res Cardiol** 1997;92 Suppl 1:59–61 (9 ref.)

Genetic linkage of the sarco(endo)plasmic reticulum Ca(2+)-dependent ATPase II gene to intracellular Ca2+ concentration in the spontaneously hypertensive rat. Ohno Y, et al. **Biochem Biophys Res Commun** 1996 Oct 23; 227(3):789–93

cDNA cloning, expression and chromosomal localization of the human sarco/endoplasmic reticulum Ca(2+)-ATPase 3 gene [published erratum appears in Biochem J 1996 Nov 1;319(pt 3):1008] Dode L, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):689–99

Sequence elements surrounding the acceptor site suppress alternative splicing of the sarco/endoplasmic reticulum Ca2+-ATPase 2 gene transcript. Van Den Bosch L, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):885–91

Changes in mRNA levels of the sarcoplasmic/endoplasmic-reticulum Ca(2+)-ATPase isoforms in the rat soleus muscle regenerating from notexin-induced necrosis. Zádor E, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):107–13

Cotranscription of a GTPase gene from the cyanobacterium Synechocystis PCC 6803 and a P-type Ca(2+)-ATPase gene. Geisler M, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):189–93

Dissection of the functional domains of the sarcoplasmic reticulum Ca(2+)-ATPase by site-directed mutagenesis. Andersen JP. **Biosci Rep** 1995 Oct;15(5):243–61 (45 ref.)

Identification and phylogenetic classification of eleven putative P-type calcium transport ATPase genes in the yeasts Saccharomyces cerevisiae and Schizosaccharomyces pombe. Catty P, et al. **Biosci Rep** 1996 Apr;16(2):75–85 (58 ref.)

Heterologous expression of sarcoplasmic reticulum Ca(2+)-ATPase. Reis EM, et al. **Biosci Rep** 1996 Apr; 16(2):107–13 (20 ref.)

Co-ordinated regulation of the plasma membrane calcium pump and the sarco(endo)plasmic reticular calcium pump gene expression by Ca2+. Kuo TH, et al. **Cell Calcium** 1997 Jun;21(6):399–408

Adenovirus-mediated gene transfer reconstitutes depressed sarcoplasmic reticulum Ca2+-ATPase levels and shortens prolonged cardiac myocyte Ca2+ transients. Giordano FJ, et al. **Circulation** 1997 Jul 15;96(2):400–3

Physiological effects of adenoviral gene transfer of sarcoplasmic reticulum calcium ATPase in isolated rat myocytes. Hajjar RJ, et al. **Circulation** 1997 Jan 21; 95(2):423–9

Change in plasma membrane Ca2(+)-ATPase splice-variant expression in response to a rise in intracellular Ca2+. Zacharias DA, et al. **Curr Biol** 1996 Dec 1;6(12):1642–52

Transcription of the rat sarcoplasmic reticulum Ca2+ adenosine triphosphatase gene is increased by 3,5,3'-triiodothyronine receptor isoform-specific interactions with the myocyte-specific enhancer factor-2a. Moriscot AS, et al. **Endocrinology** 1997 Jan;138(1):26–32

Alpha 1-adrenergic stimulation inhibits 3,5,3'-triiodothyronine-induced expression of the rat heart sarcoplasmic reticulum Ca2+ adenosine triphosphatase gene. Wu PS, et al. **Endocrinology** 1997 Jan;138(1):114–20

A calmodulin-stimulated Ca2+-ATPase from plant vacuolar membranes with a putative regulatory domain at its N-terminus. Malmström S, et al. **FEBS Lett** 1997 Jan 6; 400(3):324–8

Transcription mapping in a 700-kb region around the DXS52 locus in Xq28: isolation of six novel transcripts and a novel ATPase isoform (hPMCA5). Heiss NS, et al. **Genome Res** 1996 Jun;6(6):478–91

Characterization of cDNA and genomic DNA encoding SERCA1, the Ca(2+)-ATPase of human fast-twitch skeletal muscle sarcoplasmic reticulum, and its elimination as a candidate gene for Brody disease. Zhang Y, et al. **Genomics** 1995 Dec 10;30(3):415–24

Identification and cloning of site C splice variants of plasma membrane Ca-ATPase in the gerbil cochlea. Crouch JJ, et al. **Hear Res** 1996 Nov 1;101(1-2):55–61

Differences in sarcoplasmic reticulum gene expression in myocardium from patients undergoing cardiac surgery. Quantification of steady-state levels of messenger RNA using the reverse transcription-polymerase chain reaction. Ohkusa T, et al. **Heart Vessels** 1997;12(1):1–9

Detection of a new polymorphism in the plasma-membrane Ca2+ ATPase isoform-3 gene and its exclusion as a candidate for X-linked myotubular myopathy (MTM1). Smolenicka Z, et al. **Hum Genet** 1996 Dec;98(6):681–4

Scanning mutagenesis reveals a similar pattern of mutation sensitivity in transmembrane sequences M4, M5, and M6, but not in M8, of the Ca2+-ATPase of sarcoplasmic reticulum (SERCA1a). Rice WJ, et al. **J Biol Chem** 1996 Dec 6;271(49):31412–9

Characterization of the promoter of the rat sarcoplasmic endoplasmic reticulum Ca2+-ATPase 1 gene and analysis of thyroid hormone responsiveness. Simonides WS, et al. **J Biol Chem** 1996 Dec 13;271(50):32048–56

Overexpression of the rat sarcoplasmic reticulum Ca2+ ATPase gene in the heart of transgenic mice accelerates calcium transients and cardiac relaxation. He H, et al. **J Clin Invest** 1997 Jul 15;100(2):380–9

Cloning and molecular analysis of the plasma membrane Ca(2+)-ATPase gene in Paramecium tetraurelia. Elwess NL, et al. **J Eukaryot Microbiol** 1997 May-Jun;44(3):250–7

Molecular characterization of a sarcoplasmic-endoplasmic reticulum Ca+2 ATPase gene from Trichomonas vaginalis. Meade JC, et al. **J Eukaryot Microbiol** 1997 Sep-Oct; 44(5):480–6

Phorbol myristate acetate-induced hypertrophy of neonatal rat cardiac myocytes is associated with decreased sarcoplasmic reticulum Ca2+ ATPase (SERCA2) gene expression and calcium reuptake. Hartong R, et al.

J Mol Cell Cardiol 1996 Dec;28(12):2467-77

Molecular cloning and analysis of the human cardiac sarco(endo)plasmic reticulum Ca(2+)-ATPase (SERCA2) gene promoter. Wankerl M, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2139-50

Investigation of the Met-267 Arg exchange in isoform 1 of the human plasma membrane calcium pump in patients with essential hypertension by the amplification-created restriction site technique. Benkwitz C, et al. **J Mol Med** 1997 Jan;75(1):62-6

The gene encoding sarcoplasmic reticulum calcium ATPase-1 (Atp2a1) maps to distal mouse chromosome 7. Schleef M, et al. **Mamm Genome** 1996 Oct;7(10):788

Mutations in the gene-encoding SERCA1, the fast-twitch skeletal muscle sarcoplasmic reticulum Ca2+ ATPase, are associated with Brody disease. Odermatt A, et al. **Nat Genet** 1996 Oct;14(2):191-4

Changes in endoplasmic reticulum Ca(2-)-ATPase mRNA levels in transient cerebral ischemia of rat: a quantitative polymerase chain reaction study. Paschen W, et al. **Neurosci Lett** 1996 Oct 11;217(1):41-4

Genetic regulation of placental function: a quantitative in situ hybridization study of calcium binding protein (calbindin-D9k) and calcium ATPase mRNAs in sheep placenta. Morgan G, et al. **Placenta** 1997 Mar-Apr; 18(2-3):211-8

ECA1 complements yeast mutants defective in Ca2+ pumps and encodes an endoplasmic reticulum-type Ca2+-ATPase in Arabidopsis thaliana. Liang F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8579-84

[A study of the expression of sarcoplasmic reticulum calcium ATP-ase gene in the left ventricle of the sheep's fetus submitted to chronic increased afterload in utero] Bonnet N, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):699-705 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

[Phage mimotopes of monoclonal antibodies against plasma membrane Ca2+-ATPase] Pestov NB, et al. **Bioorg Khim** 1996 Sep;22(9):664-70 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

How to make tubular crystals by reconstitution of detergent-solubilized Ca2(+)-ATPase. Young HS, et al. **Biophys J** 1997 Jun;72(6):2545-58

Subcellular and tissue distribution, partial purification, and sequencing of calmodulin-stimulated Ca2+-transporting ATPases from barley (Hordeum vulgare L.) and tobacco (Nicotiana tabacum). Dainese P, et al. **Eur J Biochem** 1997 Feb 15;244(1):31-8

PMR1, a Ca2+-ATPase in yeast Golgi, has properties distinct from sarco/endoplasmic reticulum and plasma membrane calcium pumps. Sorin A, et al. **J Biol Chem** 1997 Apr 11;272(15):9895-901

METABOLISM

SR Ca2+ pump heterogeneity in coronary artery: free radicals and IP3-sensitive and -insensitive pools. Elmoselhi AB, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1652-9

Sarco(endo)plasmic reticulum Ca2+ pump isoform SERCA3 is more resistant than SERCA2b to peroxide. Grover AK, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C420-5

Sarcoplasmic reticulum Ca2+ pump in pig coronary artery smooth muscle is regulated by a novel pathway. Grover AK, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C181-7

SR Ca(2+)-ATPase activity and expression in ventricular myocardium of dogs with heart failure. Gupta RC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H12-8

Coordinate regulation of SR Ca(2+)-ATPase and phospholamban expression in developing murine heart. Harrer JM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H57-66

Ca2+ uptake by cardiac sarcoplasmic reticulum at low temperature in rat and ground squirrel. Liu B, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1121-7

Downregulation of sarcoplasmic reticulum Ca(2+)-ATPase during progression of left ventricular hypertrophy. Qi M, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2416-24

Effects of A-23187 and verapamil on the active transport enzymes in turtle bladder epithelial cells. Sabatini S. **Am J Physiol** 1997 May;272(5 Pt 2):R1379-89

Altered inotropism in the failing human myocardium. Bavendiek U, et al. **Basic Res Cardiol** 1996;91 Suppl 2:9-16

Plasma membrane calcium pump: structure, function and relationships. Carafoli E. **Basic Res Cardiol** 1997;92 Suppl 1:59-61 (9 ref.)

Calcium cycling proteins and force-frequency relationship in heart failure. Hasenfuss G, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:17-22 (31 ref.)

The relative phospholamban and SERCA2 ratio: a critical determinant of myocardial contractility. Koss KL, et al. **Basic Res Cardiol** 1997;92 Suppl 1:17-24

Phosphorylation and regulation of the Ca(2+)-pumping ATPase in cardiac sarcoplasmic reticulum by calcium/calmodulin-dependent protein kinase. Narayanan N, et al. **Basic Res Cardiol** 1997;92 Suppl 1:25-35 (68 ref.)

Evidence for reduced capacity for Ca2+ removal from the cytosol in submandibular cells of newborn rats. Zhang GH, et al. **Biochem Biophys Res Commun** 1996 Nov 1; 228(1):171-5

Effects of pH on phosphorylation of the Ca2+-ATPase of sarcoplasmic reticulum by inorganic phosphate. Khan YM, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):671-6

Role of sarcoplasmic/endoplasmic-reticulum Ca2+-ATPases in mediating Ca2+ waves and local Ca2+-release microdomains in cultured glia. Simpson PB, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):239-47

Separate effects of long-chain phosphatidylcholines on dephosphorylation of the Ca(2+)-ATPase and on Ca2+ binding. Starling AP, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):785-8

Effects of phosphatidylethanolamines on the activity of the Ca(2+)-ATPase of sarcoplasmic reticulum. Starling AP, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):309-14

Stimulation of the Ca(2+)-ATPase of sarcoplasmic reticulum by disulfiram. Starling AP, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):101-5

Electrical stimulation of C2C12 myotubes induces contractions and represses thyroid-hormone-dependent transcription of the fast-type sarcoplasmic-reticulum Ca2+-ATPase gene. Thelen MH, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):845-8

Sarco/endoplasmic reticulum Ca2+-ATPase isoforms: diverse responses to acidosis. Wolosker H, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):545-50

Changes in mRNA levels of the sarcoplasmic/endoplasmic-reticulum Ca(2+)-ATPase isoforms in the rat soleus muscle regenerating from notexin-induced necrosis. Zádor E, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):107-13

Effects of glucose on the activity of erythrocyte membrane Ca2+ATPase in subjects with normal and impaired glucose tolerance. Bilgin R, et al. **Biochem Mol Biol Int** 1996 Jun;39(3):547-52

Acylphosphatase stimulates Ca2+ transport and Ca(2+)-dependent ATPase activity in cardiac sarcoplasmic reticulum. Fiorillo C, et al. **Biochem Mol Biol Int** 1996 May;39(2):387-94

Lipid peroxidation both inhibits Ca(2+)-ATPase and increases Ca2+ permeability of endoplasmic reticulum membrane. Račay P, et al. **Biochem Mol Biol Int** 1997 Apr; 41(4):647-55

Effects of aliphatic alcohols on the ER calcium pumps and InsP3 receptors from porcine cerebellum. Mezna M, et al. **Biochem Soc Trans** 1996 May;24(2):292S

Dissociation of Ca2+ from sarcoplasmic reticulum Ca2+-ATPase and changes in fluorescence of optically selected Trp residues. Effects of KCl and NaCl and implications for substeps in Ca2+ dissociation. Champeil P, et al. **Biochemistry** 1997 Oct 7;36(40):12383-93

Carboxy-terminal regions of the sarcoplasmic/endoplasmic reticulum Ca(2+)- and the Na+/K(+)-ATPases control their K+ sensitivity. Ishii T, et al. **Biochemistry** 1997 Jan 14;36(2):442-51

Destabilization of the Ca2+-ATPase of sarcoplasmic reticulum by thiol-specific, heat shock inducers results in thermal denaturation at 37 degrees C. Senisterra GA, et al. **Biochemistry** 1997 Sep 9;36(36):11002-11

Pseudosubstrate hydrolysis by the erythrocyte plasma membrane Ca(2+)-ATPase: kinetic evidence for a modified E1 conformation in dimethylsulfoxide. Freire MM, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):291-8

Manganese as a cosubstrate for the phosphorylation of the sarcoplasmic reticulum Ca-dependent adenosine triphosphatase with orthophosphate. González DA, et al. **Biochim Biophys Acta** 1996 Sep 30;1276(3):188-94

Ca2+ transport by the sarcoplasmic reticulum ATPase. Mintz E, et al. **Biochim Biophys Acta** 1997 Jan 16; 1318(1-2):52-70 (171 ref.)

Rotational mobility of Ca2+-ATPase of sarcoplasmic reticulum in viscous media. Török M, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):193-200

Stimulation of sarcoplasmic reticulum Ca(2+)-ATPase by gingerol analogues. Ohizumi Y, et al. **Biol Pharm Bull** 1996 Oct;19(10):1377-9

Quantal release, incremental detection, and long-period Ca2+ oscillations in a model based on regulatory Ca2+-binding sites along the permeation pathway. Dupont G, et al. **Biophys J** 1996 Oct;71(4):1714-22

Time-resolved charge translocation by the Ca-ATPase from sarcoplasmic reticulum after an ATP concentration jump. Hartung K, et al. **Biophys J** 1997 Jun;72(6):2503-14

Sensing and refilling calcium stores in an excitable cell. Li YX, et al. **Biophys J** 1997 Mar;72(3):1080-91

Assessment of intra-SR free [Ca] and buffering in rat heart. Shannon TR, et al. **Biophys J** 1997 Sep;73(3):1524-31

A time-resolved Fourier transformed infrared difference spectroscopy study of the sarcoplasmic reticulum Ca(2+)-ATPase: kinetics of the high-affinity calcium binding at low temperature. Troullier A, et al. **Biophys J** 1996 Dec;71(6):2970-83

Ca2+ binding and translocation by the sarcoplasmic reticulum ATPase: functional and structural considerations. Inesi G, et al. **Biosci Rep** 1995 Oct;15(5):327-39 (49 ref.)

The mechanism of coupling chemical and physical reactions by the calcium ATPase of sarcoplasmic reticulum and other coupled vectorial systems. Jencks WP. **Biosci Rep** 1995 Oct;15(5):283-7 (4 ref.)

Fluorometric study on conformational changes in the catalytic cycle of sarcoplasmic reticulum Ca(2+)-ATPase. Kanazawa T, et al. **Biosci Rep** 1995 Oct;15(5):317-26 (49 ref.)

Lipid structure and Ca(2+)-ATPase function. Lee AG, et al. **Biosci Rep** 1995 Oct;15(5):289-98 (50 ref.)

The structure and interactions of Ca(2+)-ATPase. Martonosi AN. **Biosci Rep** 1995 Oct;15(5):263-81 (136 ref.)

Use of thapsigargin to study Ca2+ homeostasis in cardiac cells. Rogers TB, et al. **Biosci Rep** 1995 Oct;15(5):341-9 (18 ref.)

Ligand-gated channel of the sarcoplasmic reticulum Ca2+ transport ATPase. Wolosker H, et al. **Biosci Rep** 1995 Oct; 15(5):365-76 (53 ref.)

Immunolocalization of the multi-sarco/endoplasmic reticulum Ca2+ ATPase system in human platelets. Kovàcs T, et al. **Br J Haematol** 1997 Apr;97(1):192-203

Plasma membrane calcium ATPase in synaptic terminals of chick Edinger-Westphal neurons. Fujii JT, et al. **Brain Res** 1996 Sep 23;734(1-2):193-202

Immunolocalization of the plasma membrane Ca2+ pump isoforms in the rat brain. Stauffer TP, et al. **Brain Res** 1997 Feb 14;748(1-2):21-9

Development of intracellular Ca-ATPase in the gerbil outer hair cell lateral wall. Zine A, et al. **Brain Res** 1996 May 20;721(1-2):1-10

Sarcoplasmic reticular Ca2+ pump ATPase activity in congestive heart failure due to myocardial infarction. Afzal N, et al. **Can J Cardiol** 1996 Oct;12(10):1065-73

Reductions in sarcoplasmic reticulum Ca2+ ATPase activity in rat skeletal muscles of different fibre composition with ischemia and reperfusion. Green HJ, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):78-82

Effect of internal sodium and cellular calcium load on voltage-dependence of the Indo-1 transient in guinea-pig ventricular myocytes. Levi AJ, et al. **Cardiovasc Res** 1996 Sep;32(3):534-50

Frequency dependent effects on Cai transients and cell shortening in myocytes that survive in the infarcted heart. Licata A, et al. **Cardiovasc Res** 1997 Feb;33(2):341-50

Biochemical and functional heterogeneity of rat cerebrum microsomal membranes in relation to SERCA Ca(2+)-ATPases and Ca2+ release channels. Nori A, et al. **Cell Calcium** 1996 May;19(5):375-81

Analysis of plasma membrane Ca(2+)-ATPase expression in control and SV40-transformed human fibroblasts. Reisner PD, et al. **Cell Calcium** 1997 Jan;21(1):53-62

Use of La3+ to distinguish activity of the plasmalemmal Ca2+ pump from Na+/Ca2+ exchange in arterial myocytes. Shimizu H, et al. **Cell Calcium** 1997 Jan; 21(1):31-41

Adenoviral gene transfer of phospholamban in isolated rat cardiomyocytes. Rescue effects by concomitant gene transfer of sarcoplasmic reticulum Ca(2+)-ATPase. Hajjar RJ, et al. **Circ Res** 1997 Aug;81(2):145-53

Effects of thyroid hormone on left ventricular performance and regulation of contractile and Ca(2+)-cycling proteins in the baboon. Implications for the force-frequency and relaxation-frequency relationships. Khoury SF, et al. **Circ Res** 1996 Oct;79(4):727-35

Hydroxyl radical inhibits sarcoplasmic reticulum Ca(2+)-ATPase function by direct attack on the ATP binding site. Xu KY, et al. **Circ Res** 1997 Jan;80(1):76-81

Physiological effects of adenoviral gene transfer of sarcoplasmic reticulum calcium ATPase in isolated rat myocytes. Hajjar RJ, et al. **Circulation** 1997 Jan 21; 95(2):423-9

Effects of dietary salt and angiotensin-converting enzyme inhibitor on ATP-driven Ca pump and Na/Ca exchange in aortic rings of Dahl rats. Ashida T, et al. **Clin Exp Hypertens** 1996 Aug;18(6):851-71

Influences of somatotropin on Na(+)-K(+)-ATPase, Mg(2+)-ATPase and Ca(2+)-ATPases of Porcine visceral tissues. Caperna TJ, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):13-8

Calcium ATPase activity and membrane structure in clear and cataractous human lenses. Paterson CA, et al. **Curr Eye Res** 1997 Apr;16(4):333-8

Detection of plasma membrane Ca(2+)-ATPase activity in mouse T lymphocytes by flow cytometry using fluo-3-loaded vesicles. Telford WG, et al. **Cytometry** 1996 Jul 1;24(3):243-50

Mechanism of action of sarcoplasmic reticulum calcium-uptake activators--discrimination between sarco(endo)plasmic reticulum Ca2+ ATPase and phospholamban interaction. Berrebi-Bertrand I, et al. **Eur J Biochem** 1997 Aug 1;247(3):801-9

Subcellular and tissue distribution, partial purification, and sequencing of calmodulin-stimulated Ca2+-transporting ATPases from barley (Hordeum vulgare L.) and tobacco (Nicotiana tabacum). Dainese P, et al. **Eur J Biochem** 1997 Feb 15;244(1):31-8

Plasma membrane Ca2+ pumping plays a prominent role in adenosine A1 receptor mediated changes in [Ca2+]i in DDT1 MF-2 cells. Sipma H, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):187-94

The plasma membrane calcium pump: recent developments and future perspectives. Carafoli E, et al. **Experientia** 1996 Dec 15;52(12):1091-100 (40 ref.)

Control of energy fluxes by the sarcoplasmic reticulum Ca2+-ATPase: ATP hydrolysis, ATP synthesis and heat production. de Meis L, et al. **FEBS Lett** 1997 Apr 7; 406(1-2):201-4

Heterogeneous halothane binding in the SR Ca2+-ATPase. Kosk-Kosicka D, et al. **FEBS Lett** 1997 Feb 3; 402(2-3):189-92

The Ca2+/calmodulin binding domain of the

Ca2+-ATPase linked to the Na+,K+-ATPase alters transport stoichiometry. Zhao J, et al. **FEBS Lett** 1997 May 26;408(3):271-5

Ca(2+)-transporting ATPase(s) of the reticulum type in intracellular membranes of Saccharomyces cerevisiae: biochemical identification. Okorokov LA, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):39-46

Involvement of a protease in tert-butylhydroperoxide-mediated activation of Ca2+ ATPase in microsomes of pulmonary smooth muscle. Ghosh SK, et al. **Indian J Biochem Biophys** 1996 Oct; 33(5):414-9

Impaired calcium pump function does not slow relaxation in human skeletal muscle after prolonged exercise. Booth J, et al. **J Appl Physiol** 1997 Aug;83(2):511-21

Inhibition of calcium transport by mercury salts in rat cerebellum and cerebral cortex in vitro. Yallapragada PR, et al. **J Appl Toxicol** 1996 Jul-Aug;16(4):325-30

Interaction of ganglioside with specific peptide sequences as a mechanism for the modulation of calmodulin-dependent enzymes. Higashi H, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):66-73

Protection of scallop sarcoplasmic reticulum ATPase from thermal inactivation by removal of calcium from high-affinity binding sites on the enzyme. Nagata Y, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1100-5

Temperature sensitivity of proteoliposomes reconstituted from a mixture of scallop and rabbit sarcoplasmic reticulum Ca2+-ATPases. Nagata Y, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):648-53

Insulin receptor substrate proteins create a link between the tyrosine phosphorylation cascade and the Ca2+-ATPases in muscle and heart. Algenstaedt P, et al. **J Biol Chem** 1997 Sep 19;272(38):23696-702

Comparison of the effects of phospholamban and jasmone on the calcium pump of cardiac sarcoplasmic reticulum. Evidence for modulation by phospholamban of both Ca2+ affinity and Vmax (Ca) of calcium transport. Antipenko AY, et al. **J Biol Chem** 1997 Jan 31;272(5):2852-60

Functional Co-expression of the canine cardiac Ca2+ pump and phospholamban in Spodoptera frugiperda (Sf21) cells reveals new insights on ATPase regulation. Autry JM, et al. **J Biol Chem** 1997 Jun 20;272(25):15872-80

Regulation of platelet plasma membrane Ca2+-ATPase by cAMP-dependent and tyrosine phosphorylation. Dean WL, et al. **J Biol Chem** 1997 Jun 13;272(24):15113-9

Plasma membrane Ca2+ pump isoforms 2a and 2b are unusually responsive to calmodulin and Ca2+. Elwess NL, et al. **J Biol Chem** 1997 Jul 18;272(29):17981-6

Protein kinase C activates the plasma membrane Ca2+ pump isoform 4b by phosphorylation of an inhibitory region downstream of the calmodulin-binding domain. Enyedi A, et al. **J Biol Chem** 1996 Dec 13;271(50):32461-7

The cytoplasmic loop between putative transmembrane segments 6 and 7 in sarcoplasmic reticulum Ca2+-ATPase binds Ca2+ and is functionally important. Falson P, et al. **J Biol Chem** 1997 Jul 11;272(28):17258-62

Plasma membrane Ca2+ pump in rat brain. Patterns of alternative splices seen by isoform-specific antibodies. Filoteo AG, et al. **J Biol Chem** 1997 Sep 19;272(38):23741-7

Expression of the plasma membrane Ca2+-ATPase in myogenic cells. Hammes A, et al. **J Biol Chem** 1996 Nov 29;271(48):30816-22

Identification of arginyl residues located at the ATP binding site of sarcoplasmic reticulum Ca2+-ATPase. Modification with 1,2-cyclohexanedione. Kimura K, et al. **J Biol Chem** 1996 Nov 15;271(46):28933-41

Polarized expression of Ca2+ pumps in pancreatic and salivary gland cells. Role in initiation and propagation of [Ca2+]i waves. Lee MG, et al. **J Biol Chem** 1997 Jun 20; 272(25):15771-6

Intracellular Ca2+ pool content and signaling and expression of a calcium pump are linked to virulence in Leishmania mexicana amazonesis amastigotes. Lu HG, et al. **J Biol Chem** 1997 Apr 4;272(14):9464-73

Mutagenesis of segment 487Phe-Ser-Arg-Asp-Arg-Lys492 of sarcoplasmic reticulum Ca2+-ATPase produces pumps defective in ATP binding. McIntosh DB, et al. **J Biol Chem** 1996 Oct 18;271(42):25778-89

Dissociation of phospholamban regulation of cardiac sarcoplasmic reticulum Ca2+ATPase by quercetin. McKenna E, et al. **J Biol Chem** 1996 Oct 4; 271(40):24517-25

Smooth muscle cell cycle and proliferation. Relationship between calcium influx and sarco-endoplasmic reticulum Ca2+ATPase regulation. Magnier-Gaubil C, et al. **J Biol Chem** 1996 Nov 1;271(44):27788-94

Nmoc-DBHQ, a new caged molecule for modulating sarcoplasmic/endoplasmic reticulum Ca2+ ATPase activity with light flashes. Rossi FM, et al. **J Biol Chem** 1997 Feb 7;272(6):3266-71

Decrease of Ca(2+)-ATPase activity in human keratinocytes during calcium-induced differentiation. Cho JK, et al. **J Cell Physiol** 1997 Aug;172(2):146-54

Movement of Ca(2+)-ATPase molecules within the sarcoplasmic/endoplasmic reticulum in skeletal muscle. Kaprielian Z, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2529-37

ATP and [3H]noradrenaline release and the presence of ecto-Ca(2+)-ATPases in the capsule-glomerulosa fraction of the rat adrenal gland. Jurányi Z, et al. **J Endocrinol** 1997 Apr;153(1):105-14

Ontogeny of sarcoplasmic reticulum protein phosphorylation by Ca2+--calmodulin-dependent protein kinase. Xu A, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):405-18

Plakortides, novel cyclic peroxides from the sponge Plakortis halichondrioides: activators of cardiac SR-CA(2+)-pumping ATPase. Patil AD, et al. **J Nat Prod** 1996 Mar;59(3):219-23

Ca2+ diffusion and sarcoplasmic reticulum transport both contribute to [Ca2+]i decline during Ca2+ sparks in rat ventricular myocytes. Gómez AM, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):575-81

Reduced anesthetic requirements in aged rats: association with altered brain synaptic plasma membrane Ca(2+)-ATPase pump and phospholipid methyltransferase I activities. Horn JL, et al. **Life Sci** 1996;59(17):PL263-8

Increased anesthetic requirements for isoflurane, halothane, enflurane and desflurane in obese Zucker rats are associated with insulin-induced stimulation of plasma membrane Ca(2+)-ATPase. Janicki PK, et al. **Life Sci** 1996; 59(17):PL269-75

Ca-ATPase and bone cell mineralization. Abramowitz J, et al. **Miner Electrolyte Metab** 1996;22(5-6):336-44 (101 ref.)

Regulation of endoplasmic reticulum-Ca-ATPase by glycolysis in eukaryotic cells. Martínez-Zaguilán R, et al. **Miner Electrolyte Metab** 1996;22(5-6):318-35 (157 ref.)

Calmodulin content in pancreatic islets and the response of islet membrane Ca2+ ATPase to calmodulin in phosphate depletion. Ozbasli CF, et al. **Miner Electrolyte Metab** 1996; 22(4):253-7

Increase in calcium content and Ca(2+)-ATPase activity in the brain of fasted rats: comparison with different ages. Hanahisa Y, et al. **Mol Cell Biochem** 1997 Jun; 171(1-2):127-32

Reduced concentration of myocardial Na+,K(+)-ATPase in human aortic valve disease as well as of Na+,K(+)- and Ca(2+)-ATPase in rodents with hypertrophy. Larsen JS, et al. **Mol Cell Biochem** 1997 Apr;169(1-2):85-93

Sarcoplasmic reticulum Ca(2+)-pump density is higher in distal than in proximal segments of porcine left coronary artery. Misquitta CM, et al. **Mol Cell Biochem** 1996 May 10;158(1):91-5

Alterations in Ca2+-ATPase activity and calcium-binding protein regucalcin mRNA expression in the kidney cortex of rats with saline ingestion. Shinya N, et al. **Mol Cell Biochem** 1997 May;170(1-2):17-22

Decreased expression of cardiac sarcoplasmic reticulum Ca(2+)-pump ATPase in congestive heart failure due to myocardial infarction. Zarain-Herzberg A, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:285-90

The role of the Saccharomyces cerevisiae CCC1 gene in the homeostasis of manganese ions. Lapinskas PJ, et al. **Mol Microbiol** 1996 Aug;21(3):519-28

Evidence for Ca(2+)-dependent ATPase activity, stimulated by decapacitation factor and calmodulin, in mouse sperm. Adeoya-Osiguwa SA, et al. **Mol Reprod Dev** 1996 May; 44(1):111-20

Ca(2+)-ATPase pump forms and an endogenous inhibitor in bovine brain synaptosomes. Panfoli I, et al. **Neurochem Res** 1997 Mar;22(3):297-304

Acidosis of hippocampal neurones mediated by a plasmalemmal Ca2+/H+ pump. Trapp S, et al. **Neuroreport** 1996 Aug 12;7(12):2000-4

Ethanol inhibits CCK-induced enzyme secretion by affecting calcium-pump activity in isolated rat pancreatic acini. Tachibana I, et al. **Pancreas** 1996 Oct;13(3):316-23

The contribution of the sarcoplasmic reticulum Ca2+-transport ATPase to caffeine-induced Ca2+ transients of murine skinned skeletal muscle fibres. Makabe M, et al. **Pflugers Arch** 1996 Aug;432(4):717-26

Calmodulin-stimulated Ca(2+)-ATPases in the vacuolar and plasma membranes in cauliflower. Askerlund P. **Plant Physiol** 1997 Jul;114(3):999-1007

ECA1 complements yeast mutants defective in Ca2+ pumps and encodes an endoplasmic reticulum-type Ca2+-ATPase in Arabidopsis thaliana. Liang F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8579-84

Developmental changes in Ca(2+)-uptake, Na+,Ca(2+)-exchange and Ca(2+)-ATPase in freshly isolated embryonic, newborn and adult chicken heart. Prakash P, et al. **Reprod Fertil Dev** 1996;8(1):71-8

[Changes in calcium uptake and Ca(2+)-ATPase activity of cardiac sarcoplasmic reticulum in rat associated with hypoxia of various degrees] Sun X, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Feb; 18(1):38-42 (Eng. Abstr.) **(Chi)**

[Effect of physical load deficiency on the system of calcium transport in the sarcoplasmic reticulum of skeletal muscles amd myocardium] Stepanova VV, et al. **Aviakosm Ekolog Med** 1996;30(5):33-5 (24 ref.) (Eng. Abstr.) **(Rus)**

[Effect of dielectric permeability of culture media on the kinetics of the ATP hydrolysis reaction, catalyzed by Ca2+-transporting ATPase, solubilized from smooth muscle cell membrane] Slinchenko NN, et al. **Biokhimiia** 1996 Jul;61(7):1189-97 (Eng. Abstr.) **(Rus)**

[Development of increased resistance of Ca-pump of the myocardial sarcoplasmic reticulum during adaptation to stress] Sazontova TG, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):272-6 **(Rus)**

[Lipid peroxidation and Ca-dependent ATPase activity in the microsomal fraction of renal tissue in patients with nephrolithiasis and chronic pyelonephritis] Golod EA. **Urol Nefrol (Mosk)** 1996 Sep-Oct;(5):14-6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Regulation of [Ca2+]i in canine airway smooth muscle by Ca(2+)-ATPase and Na+/Ca2+ exchange mechanisms. Janssen LJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L322-30

Sites of regulatory interaction between calcium ATPases and phospholamban. MacLennan DH, et al. **Basic Res Cardiol** 1997;92 Suppl 1:11-5 (32 ref.)

The plasma-membrane Ca2+-ATPase of Leishmania donovani is an extrusion pump for Ca2+. Mandal D, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):251-7

Modulation of SERCA2 activity: regulated splicing and interaction with phospholamban. Verboomen H, et al. **Biosci Rep** 1995 Oct;15(5):307 (48 ref.)

The SERCA3-type of organellar Ca2+ pumps. Wuytack F, et al. **Biosci Rep** 1995 Oct;15(5):299-306 (27 ref.)

Extrusion mechanisms of intracellular Ca2+ in human aortic endothelial cells. Goto Y, et al. **Eur J Pharmacol** 1996 Oct 24;314(1-2):185-92

The plasma membrane calcium pump: not just another pretty ion translocase. Brandt PC, et al. **Glycobiology** 1996 Oct; 6(7):665-8 (30 ref.)

SR Ca(2+)-ATPase/phospholamban in cardiomyocyte function. Tada M, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S77-85 (39 ref.)

Ischemia-induced inhibition of calcium uptake into rat brain microsomes mediated by Mg2+/Ca2+ ATPase. Parsons JT, et al. **J Neurochem** 1997 Mar;68(3):1124-34

One-dimensional modelling of the vulnerability to re-entry of homogeneous atrial tissue. Zhang H, et al. **J Theor Biol** 1997 Jan 21;184(2):117-22

Plasma membrane and sarcoplasmic reticulum Ca-ATPase and smooth muscle. Gonzalez JM, et al. **Miner Electrolyte Metab** 1996;22(5-6):345-8 (27 ref.)

The role of sarcoplasmic reticulum and sarcoplasmic reticulum Ca2+-ATPase in the smooth muscle tone of the cat gastric fundus. Petkov GV, et al. **Pflugers Arch** 1996 Apr;431(6):928-35

Regulatory interactions between calcium ATPases and phospholamban. MacLennan DH, et al. **Soc Gen Physiol Ser** 1996;51:89-103 (72 ref.)

ULTRASTRUCTURE

The ATP-binding site of Ca(2+)-ATPase revealed by electron image analysis. Yonekura K, et al. **Biophys J** 1997 Mar;72(3):997-1005

Keeping calcium in its place: Ca(2+)-ATPase and phospholamban. Stokes DL. **Curr Opin Struct Biol** 1997 Aug;7(4):550-6 (27 ref.)

Plasmalemmal ATPase calcium pump localizes to inner and outer hair bundles. Apicella S, et al. **Neuroscience** 1997 Aug;79(4):1145-51

CABBAGE see **BRASSICA**

CACAJAO see **CEBIDAE**

CACAO

Chocolate--divine food, fattening junk or nutritious supplementation? Rössner S. **Eur J Clin Nutr** 1997 Jun; 51(6):341-5 (33 ref.)

Expression, purification and initial characterization of the recombinant storage protein precursor of Theobroma cacao. O'Connor J, et al. **Protein Expr Purif** 1996 Jun; 7(4):377-83

CHEMISTRY

Phosphatidylinositol-3-kinase pathway is stimulated by fungal lipid containing cocoa butter equivalents (CBE) in FMet-Leu-Phe (FMLP)- and phorbolester (PMA)-challenged human neutrophils. Roux MP, et al. **Adv Exp Med Biol** 1996;416:349-53

Polyphenols in chocolate, which have antioxidant activity, modulate immune functions in humans in vitro. Sanbongi C, et al. **Cell Immunol** 1997 May 1;177(2):129-36

Antioxidants in chocolate [letter] [see comments] Waterhouse AL, et al. **Lancet** 1996 Sep 21;348(9030):834. Comment in: Lancet 1996 Nov 30;348(9040):1514.

Nutrient and antinutrient profiles of raw and fermented cocoa beans. Aremu CY, et al. **Plant Foods Hum Nutr** 1995 Oct; 48(3):217-23

Protein profiles and organoleptic properties of bread from wheat flour and full-fat or defatted fermented cocoa bean powder. Aremu CY, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):287-95

A model for vicilin solubility at mild acidic pH, based on homology modelling and electrostatics calculations. Warwicker J, et al. **Protein Eng** 1995 Dec;8(12):1243-51

METABOLISM

Inhibition of LDL oxidation by cocoa [letter; comment] [see comments] Kondo K, et al. **Lancet** 1996 Nov 30; 348(9040):1514. Comment on: Lancet 1996 Sep 21;348(9030):834. Comment in: Lancet 1997 Feb 1;349(9048):360-1.

CACAO

MICROBIOLOGY

Time to B. cereus about hot chocolate. Nelms PK, et al. **Public Health Rep** 1997 May-Jun;112(3):240-4

PHYSIOLOGY

The effect of a chocolate bar supplementation on moderate exercise recovery of recreational runners. Chen JD, et al. **Biomed Environ Sci** 1996 Sep;9(2-3):247-55

POISONING

Chocolate poisoning in dogs [letter] Stidworthy MF, et al. **Vet Rec** 1997 Jul 5;141(1):28

STANDARDS

Evaluation of milk chocolate product as a substitute for whey in pig starter diets. Yang H, et al. **J Anim Sci** 1997 Feb; 75(2):423-9

CACHECTIN see **TUMOR NECROSIS FACTOR**

CACHECTIN RECEPTORS see **RECEPTORS, TUMOR NECROSIS FACTOR**

CACHEXIA

see related
HIV WASTING SYNDROME
WASTING SYNDROME

Cancer, cancer cachexia, and diet: lessons from clinical research. Nixon DW. **Nutrition** 1996 Jan;12(1 Suppl):S52-56 (78 ref.)

The cachexia associated with Trypanosoma cruzi acute infection in mice is attenuated by anti-TNF-alpha, but not by anti-IL-6 or anti-IFN-gamma antibodies. Truyens C, et al. **Parasite Immunol** 1995 Nov;17(11):561-8

BLOOD

Cancer cachexia and depressive states: a neuro-endocrine-immunological disease? Iwagaki H, et al. **Acta Med Okayama** 1997 Aug;51(4):233-6

Enhanced generation of interleukins 1 beta and 6 may contribute to the cachexia of chronic disease. Cederholm T, et al. **Am J Clin Nutr** 1997 Mar;65(3):876-82

Serum levels of interleukin-10 and interleukin-12 in patients with colorectal cancer. Shibata M, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:410-2

Medroxyprogesterone acetate reduces the production of cytokines and serotonin involved in anorexia/cachexia and emesis by peripheral blood mononuclear cells of cancer patients. Mantovani G, et al. **Biochem Soc Trans** 1997 May; 25(2):296S

Cystine levels, cystine flux, and protein catabolism in cancer cachexia, HIV/SIV infection, and senescence. Hack V, et al. **FASEB J** 1997 Jan;11(1):84-92

Elevated plasma levels of tumor necrosis factor in chronic heart failure with cachexia. Zhao SP, et al. **Int J Cardiol** 1997 Feb;58(3):257-61

Elevated venous glutamate levels in (pre)catabolic conditions result at least partly from a decreased glutamate transport activity. Hack V, et al. **J Mol Med** 1996 Jun;74(6):337-43

COMPLICATIONS

Wasting as independent risk factor for mortality in chronic heart failure [published erratum appears in Lancet 1997 Apr 26;349(9060):1258] Anker SD, et al. **Lancet** 1997 Apr 12;349(9058):1050-3

Diabetic neuropathic cachexia. Godil A, et al. **West J Med** 1996 Dec;165(6):382-5 (15 ref.)

[A emergent surgical case for progressive heart failure with cardiac cachexia] Koike R, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):190-4 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Early detection of cancer cachexia in the rat using 31P magnetic resonance spectroscopy of the liver and a fructose stress test. Gehman KE, et al. **NMR Biomed** 1996 Sep; 9(6):271-5

DIET THERAPY

Nutrition support in clinical practice: review of published data and recommendations for future research directions. Summary of a conference sponsored by the National Institutes of Health, American Society for Parenteral and Enteral Nutrition, and American Society for Clinical Nutrition. Klein S, et al. **Am J Clin Nutr** 1997 Sep; 66(3):683-706 (257 ref.)

Proinflammatory cytokines, nutritional support, and the cachexia syndrome: interactions and therapeutic options. Moldawer LL, et al. **Cancer** 1997 May 1;79(9):1828-39 (119 ref.)

DRUG THERAPY

The effect of megestrol acetate on anorexia, weight loss and cachexia in cancer and AIDS patients (review). Strang P. **Anticancer Res** 1997 Jan-Feb;17(1B):657-62 (36 ref.)

A pilot study of megestrol acetate and ibuprofen in the treatment of cachexia in gastrointestinal cancer patients. McMillan DC, et al. **Br J Cancer** 1997;76(6):788-90

Is there a role for melatonin in the treatment of neoplastic cachexia? Lissoni P, et al. **Eur J Cancer** 1996 Jul; 32A(8):1340-3

Improvement by eicosanoids in cancer cachexia induced by LLC-IL6 transplantation. Ohira T, et al. **J Cancer Res Clin Oncol** 1996;122(12):711-5

Historical perspective and potential use of n-3 fatty acids in therapy of cancer cachexia. Karmali RA. **Nutrition** 1996 Jan;12(1 Suppl):S2-4 (19 ref.)

The effect of polyunsaturated fatty acids on the progress of cachexia in patients with pancreatic cancer. Wigmore SJ, et al. **Nutrition** 1996 Jan;12(1 Suppl):S27-30

ETIOLOGY

Proinflammatory cytokines, nutritional support, and the cachexia syndrome: interactions and therapeutic options. Moldawer LL, et al. **Cancer** 1997 May 1;79(9):1828-39 (119 ref.)

Plasma protein (albumin) catabolism by the tumor itself--implications for tumor metabolism and the genesis of cachexia. Stehle G, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):77-100 (255 ref.)

Acute painful neuropathic cachexia in a young type I diabetic woman. A case report. Weintrob N, et al. **Diabetes Care** 1997 Mar;20(3):290-1

The importance of cachexia in the syndrome of heart failure [editorial; comment] Ferrari R. **Eur Heart J** 1997 Feb; 18(2):187-9. Comment on: Eur Heart J 1997 Feb;18(2):259-69.

Anorexia and cachexia, asthenia, and lethargy. Watanabe S, et al. **Hematol Oncol Clin North Am** 1996 Feb;10(1):189-206 (100 ref.)

Improvement by eicosanoids in cancer cachexia induced by LLC-IL6 transplantation. Ohira T, et al. **J Cancer Res Clin Oncol** 1996;122(12):711-5

The role of tumor necrosis factor-alpha in the pathogenesis of anorexia and bulimia nervosa, cancer cachexia and obesity. Holden RJ, et al. **Med Hypotheses** 1996 Dec; 47(6):423-38 (148 ref.)

The metabolic basis of cancer cachexia. Argilés JM, et al. **Med Res Rev** 1997 Sep;17(5):477-98 (215 ref.)

Recent implications of weight loss in lung cancer management. Chlebowski RT, et al. **Nutrition** 1996 Jan;12(1 Suppl):S43-7 (61 ref.)

Food intake and body composition in cancer cachexia. Giacosa A, et al. **Nutrition** 1996 Jan;12(1 Suppl):S20-3 (36 ref.)

The effect of polyunsaturated fatty acids on the progress of cachexia in patients with pancreatic cancer. Wigmore SJ, et al. **Nutrition** 1996 Jan;12(1 Suppl):S27-30

Anorexia/cachexia in patients with HIV: lessons for the oncologist. Von Roenn JH, et al. **Oncology (Huntingt)** 1996 Jul;10(7):1049-56; discussion 1062-4, 1067-8 (52 ref.)

Isolation of a novel cancer cachectic factor. Tisdale MJ. **Proc Nutr Soc** 1997 Jul;56(2):777-83 (46 ref.)

The cancer cachexia syndrome. Puccio M, et al. **Semin Oncol** 1997 Jun;24(3):277-87 (60 ref.)

Serum levels of tumour necrosis factor alpha and other cytokines do not correlate with weight loss and anorexia in cancer patients. Maltoni M, et al. **Support Care Cancer** 1997 Mar;5(2):130-5

Are cytokines possible mediators of cancer cachexia? Noguchi Y, et al. **Surg Today** 1996;26(7):467-75 (82 ref.)

Isosporiasis presenting with failure to thrive. Leonard M, et al. **Tenn Med** 1997 Sep;90(9):372-3

GENETICS

Molecular cloning of a gene encoding a new type of metalloproteinase-disintegrin family protein with thrombospondin motifs as an inflammation associated gene. Kuno K, et al. **J Biol Chem** 1997 Jan 3;272(1):556-62

IMMUNOLOGY

Is TNF really involved in cachexia? García-Martínez C, et al. **Cancer Invest** 1997;15(1):47-54 (81 ref.)

Down-regulation of the acute-phase response in patients with pancreatic cancer cachexia receiving oral eicosapentaenoic acid is mediated via suppression of interleukin-6. Wigmore SJ, et al. **Clin Sci (Colch)** 1997 Feb; 92(2):215-21

Medroxyprogesterone acetate reduces the in vitro production of cytokines and serotonin involved in anorexia/cachexia and emesis by peripheral blood mononuclear cells of cancer patients. Mantovani G, et al. **Eur J Cancer** 1997 Apr; 33(4):602-7

METABOLISM

Role of cysteine and glutathione in HIV infection and cancer cachexia: therapeutic intervention with N-acetylcysteine. Dröge W, et al. **Adv Pharmacol** 1997;38:581-600 (88 ref.)

Studies on the lipid metabolism of Walker 256 tumour-bearing rats during the development of cancer cachexia. Seelaender MC, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):1037-47

Hormonal changes and catabolic/anabolic imbalance in chronic heart failure and their importance for cardiac cachexia. Anker SD, et al. **Circulation** 1997 Jul 15; 96(2):526-34

Involvement of cytokines in cachexia induced by T-cell leukaemia in the rat. Roe SY, et al. **Eur Cytokine Netw** 1997 Mar;8(1):45-9

Catabolic factors in cancer cachexia. Tisdale MJ, et al. **In Vivo** 1996 Mar-Apr;10(2):131-6

Hepatic amino acid and protein metabolism in non-anorectic, moderately cachectic tumor-bearing rats. de Blaauw I, et al. **J Hepatol** 1997 Feb;26(2):396-408

Effect of acute acipimox administration on the rates of lipid and glycogen synthesis in cachectic tumor-bearing rats. Obeid OA, et al. **Nutr Cancer** 1997;28(1):100-6

Cancer cachexia: metabolic alterations and clinical manifestations. Tisdale MJ. **Nutrition** 1997 Jan;13(1):1-7 (76 ref.)

Inhibition of lipolysis and muscle protein degradation by EPA in cancer cachexia. Tisdale MJ. **Nutrition** 1996 Jan; 12(1 Suppl):S31-3

Liver protein and glutamine metabolism during cachexia. Hulsewé KW, et al. **Proc Nutr Soc** 1997 Jul;56(2):801-6 (23 ref.)

Isolation of a novel cancer cachectic factor. Tisdale MJ. **Proc Nutr Soc** 1997 Jul;56(2):777-83 (46 ref.)

[Metabolic host-tumor relationships during perinatal phase] Argilés JM, et al. **Med Clin (Barc)** 1997 Jun 28; 109(5):186-94 (52 ref.) **(Spa)**

PHYSIOPATHOLOGY

Mechanisms of host wasting induced by administration of cytokines in rats. Ling PR, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 1):E333-9

Cachectic effect of ciliary neurotrophic factor on innervated skeletal muscle. Martin D, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):R1422-8

Adjuvant arthritis as a model of inflammatory cachexia. Roubenoff R, et al. **Arthritis Rheum** 1997 Mar;40(3):534-9

Induction of cachexia in mice by a product isolated from the urine of cachectic cancer patients. Cariuk P, et al. **Br J Cancer** 1997;76(5):606-13

Changes in nutritional status associated with unresectable pancreatic cancer. Wigmore SJ, et al. **Br J Cancer** 1997; 75(1):106-9

The influence of muscle mass, strength, fatigability and blood flow on exercise capacity in cachectic and non-cachectic patients with chronic heart failure [see comments] Anker SD, et al. **Eur Heart J** 1997 Feb;18(2):259-69. Comment in: Eur Heart J 1997 Feb;18(2):187-9.

Journey from cachexia to obesity by TNF. Argilés JM, et al. **FASEB J** 1997 Aug;11(10):743-51 (107 ref.)

AGA technical review: malnutrition and cachexia, chronic diarrhea, and hepatobiliary disease in patients with human immunodeficiency virus infection. Wilcox CM, et al. **Gastroenterology** 1996 Dec;111(6):1724-52 (311 ref.)

Cachexia and anorexia in malignancy. Albrecht JT, et al. **Hematol Oncol Clin North Am** 1996 Aug;10(4):791-800 (87 ref.)

Starvation in a sea of plenty: can a "slime loosener" help the critically ill? Luft FC. **J Mol Med** 1996 Jul;74(7):345-6

Inflammatory and hormonal mediators of cachexia. Roubenoff R. **J Nutr** 1997 May;127(5 Suppl):1014S-1016S (15 ref.)

A new cancer hypothesis. Zajicek G. **Med Hypotheses** 1996 Aug;47(2):111-5

Involvement of prostaglandins in cachexia induced by T-cell leukemia in the rat. Roe SY, et al. **Metabolism** 1997 Apr; 46(4):359-65

Effects of lentinan on abnormal ingestive behaviors induced by tumor necrosis factor. Tamura R, et al. **Physiol Behav** 1997 Mar;61(3):399-410

PREVENTION & CONTROL

Zinc administration prevents wasting in stressed mice. García Tamayo F, et al. **Arch Med Res** 1996 Autumn;27(3):319-25

Prevention of adenocarcinoma colon 26-induced cachexia by interleukin 10 gene transfer. Fujiki F, et al. **Cancer Res** 1997 Jan 1;57(1):94-9

Murine interleukin-12 prevents the development of cancer cachexia in a murine model. Mori K, et al. **Int J Cancer** 1996 Sep 17;67(6):849-55

Human chorionic gonadotropin hormone prevents wasting syndrome and death in HIV-1 transgenic mice. De SK, et al. **J Clin Invest** 1997 Apr 1;99(7):1484-91

Proceedings of an international symposium on cancer, cachexia, cytokines, and EPA: nutritional applications. Charleston, South Carolina, December 2-4, 1995. **Nutrition** 1996 Jan;12(1 Suppl):S1-65

THERAPY

American Gastroenterological Association medical position statement: guidelines for the management of malnutrition and cachexia, chronic diarrhea, and hepatobiliary disease in patients with human immunodeficiency virus infection. **Gastroenterology** 1996 Dec;111(6):1722-3

Regulatory climate for therapeutic nutritional claims regarding cachexia. McCamish MA, et al. **Nutrition** 1996 Jan;12(1 Suppl):S63-5 (20 ref.)

Cancer, cancer cachexia, and diet: lessons from clinical research. Nixon DW. **Nutrition** 1996 Jan;12(1 Suppl):S52-56 (78 ref.)

[Tumor cachexia--a special entity and therapeutic sequelae] Heberer M. **Chirurg** 1997 Jun;68(6):568-73 (51 ref.) (Eng. Abstr.) **(Ger)**

URINE

Induction of cachexia in mice by a product isolated from the urine of cachectic cancer patients. Cariuk P, et al. **Br J Cancer** 1997;76(5):606–13

CACO–2 CELLS

[Oncogenic activation of p21ras or pp60c–src in human colonic Caco–2 cells induces post–translation alterations of syndecan–1] Lévy P, et al. **Bull Cancer** 1997 Mar; 84(3):235–7 (Eng. Abstr.) **(Fre)**

CYTOLOGY

Comparison of the effect of different short chain fatty acids on the growth and differentiation of human colonic carcinoma cell lines in vitro. Siavoshian S, et al. **Cell Biol Int** 1997 May;21(5):281–7

Sucralfate impedes intestinal epithelial sheet migration in a Caco–2 cell culture model. Emenaker NJ, et al. **Digestion** 1997;58(1):34–42

Lipid, apolipoprotein, and lipoprotein synthesis and secretion during cellular differentiation in Caco–2 cells. Mehran M, et al. **In Vitro Cell Dev Biol Anim** 1997 Feb;33(2):118–28

The influence of culture time and passage number on the morphological and physiological development of Caco–2 cells. Briske–Anderson MJ, et al. **Proc Soc Exp Biol Med** 1997 Mar;214(3):248–57

DRUG EFFECTS

Interaction of oligonucleotide–conjugates with the dipeptide transporter system in Caco–2 cells. Moore VA, et al. **Biochem Pharmacol** 1997 May 9;53(9):1223–8

Antiproliferative potency of structurally distinct dietary flavonoids on human colon cancer cells. Kuo SM. **Cancer Lett** 1996 Dec 20;110(1–2):41–8

Vitamin D3 analog, EB1089, inhibits growth of subcutaneous xenografts of the human colon cancer cell line, LoVo, in a nude mouse model. Akhter J, et al. **Dis Colon Rectum** 1997 Mar;40(3):317–21

Inhibition of complete development of Cryptosporidium parvum in Caco–2 cells [letter] Egraz–Bernard M, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):897–900

In vitro toxicity and formation of early conjugates in Caco–2 cell line treated with clenbuterol, salbutamol and isoxsuprine. Stammati A, et al. **Eur J Drug Metab Pharmacokinet** 1997 Apr–Jun; 22(2):173–8

Iron uptake is enhanced in Caco–2 cell monolayers by cysteine and reduced cysteinyl glycine. Glahn RP, et al. **J Nutr** 1997 Apr;127(4):642–7

The protective effect of the olive oil polyphenol (3,4–dihydroxyphenyl)–ethanol counteracts reactive oxygen metabolite–induced cytotoxicity in Caco–2 cells. Manna C, et al. **J Nutr** 1997 Feb;127(2):286–92

Effects of epidermal growth factor and Clostridium difficile toxin B in a model of mucosal injury. Lawrence JP, et al. **J Pediatr Surg** 1997 Mar;32(3):430–3

Chitosans as absorption enhancers for poorly absorbable drugs. 1: Influence of molecular weight and degree of acetylation on drug transport across human intestinal epithelial (Caco–2) cells. Schipper NG, et al. **Pharm Res** 1996 Nov;13(11):1686–92

ENZYMOLOGY

Development of Caco–2 cells expressing high levels of cDNA–derived cytochrome P4503A4. Crespi CL, et al. **Pharm Res** 1996 Nov;13(11):1635–41

METABOLISM

Kinetic separation and characterization of three sugar transport modes in Caco–2 cells. Bissonnette P, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G833–43

2–Deoxyglucose transport and metabolism in Caco–2 cells. Bissonnette P, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G153–62

Nutritional efficiency of succinic acid and glutamic acid dimethyl esters in colon carcinoma cells. Zhang TM, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G852–9

Identification and subcellular distribution of the Gi–proteins in the enterocytic–differentiated adenocarcinoma cell–line, Caco–2. Lacombe C, et al. **Biol Cell** 1996;88(3):123–9

A human colonic cell line sharing similarities with enterocytes as a model to examine oral absorption: advantages and limitations of the Caco–2 model. Delie F, et al. **Crit Rev Ther Drug Carrier Syst** 1997;14(3):221–86 (282 ref.)

In vitro toxicity and formation of early conjugates in Caco–2 cell line treated with clenbuterol, salbutamol and isoxsuprine. Stammati A, et al. **Eur J Drug Metab Pharmacokinet** 1997 Apr–Jun; 22(2):173–8

Lipid, apolipoprotein, and lipoprotein synthesis and secretion during cellular differentiation in Caco–2 cells. Mehran M, et al. **In Vitro Cell Dev Biol Anim** 1997 Feb;33(2):118–28

Transmembranous transport of drugs: implications for kinetics and drug action. Stratmann G, et al. **Int J Clin Pharmacol Ther** 1997 Apr;35(4):151–4

Caco–2 cell line used as an in vitro model to study cadmium accumulation in intestinal epithelial cells. Jumarie C, et al. **J Membr Biol** 1997 Jul 1;158(1):31–48

HT29–MTX/Caco–2 cocultures as an in vitro model for the intestinal epithelium: in vitro–in vivo correlation with permeability data from rats and humans. Walter E, et al. **J Pharm Sci** 1996 Oct;85(10):1070–6

Transepithelial transport of oligopeptides in the human intestinal cell, Caco–2. Shimizu M, et al. **Peptides** 1997; 18(5):681–7

Interactions of phosphodiester and phosphorothioate oligonucleotides with intestinal epithelial Caco–2 cells. Beck GF, et al. **Pharm Res** 1996 Jul;13(7):1028–37

Comparison of HT29–18–C1 and Caco–2 cell lines as models for studying intestinal paracellular drug absorption. Collett A, et al. **Pharm Res** 1996 Feb;13(2):216–21

Chitosans as absorption enhancers for poorly absorbable drugs. 1: Influence of molecular weight and degree of acetylation on drug transport across human intestinal epithelial (Caco–2) cells. Schipper NG, et al. **Pharm Res** 1996 Nov;13(11):1686–92

Effect of charge on oligopeptide transporter–mediated permeation of cyclic dipeptides across Caco–2 cell monolayers. Tamura K, et al. **Pharm Res** 1996 Nov; 13(11):1752–4

Metabolism, uptake, and transepithelial transport of the stereoisomers of Val–Val–Val in the human intestinal cell line, Caco–2. Tamura K, et al. **Pharm Res** 1996 Nov; 13(11):1663–7

A study of cadmium transport pathways using the Caco–2 cell model. Pigman EA, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):243–7

MICROBIOLOGY

Effect of multiplicity of infection on Listeria monocytogenes pathogenicity for HeLa and Caco–2 cell lines. Francis MS, et al. **J Med Microbiol** 1996 Nov;45(5):323–30

Adherence of Aeromonas caviae to human cell lines Hep–2 and Caco–2. Thornley JP, et al. **J Med Microbiol** 1996 Dec;45(6):445–51

PHYSIOLOGY

Basal nutrition promotes human intestinal epithelial (Caco–2) proliferation, brush border enzyme activity, and motility. Perdikis DA, et al. **Crit Care Med** 1997 Jan;25(1):159–65

p21 (WAF1/CIP1) expression is induced in newly nondividing cells in diverse epithelia and during differentiation of the Caco–2 intestinal cell line. Gartel AL, et al. **Exp Cell Res** 1996 Sep 15;227(2):171–81

SECRETION

Cytokines regulate apolipoprotein B secretion by Caco–2 cells: differential effects of IL–6 and TGF–beta 1. Murthy S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G94–102

ULTRASTRUCTURE

A ferric reductase activity is found in brush border membrane vesicles isolated from Caco–2 cells. Ekmekcioglu C, et al. **J Nutr** 1996 Sep;126(9):2209–17

CACODYLIC ACID

PHARMACOKINETICS

The urinary excretion of arsenic metabolites after a single oral administration of dimethylarsinic acid to rats. Yoshida K, et al. **Arch Environ Contam Toxicol** 1997 May; 32(4):416–21

PHARMACOLOGY

Dimethylarsenics reveal DNA damage induced by superoxide anion radicals. Kawaguchi K, et al. **Biol Pharm Bull** 1996 Apr;19(4):551–3

DNA single–strand breaks in L–132 cells resulting from inhibition of repair polymerization shortly after exposure to dimethylarsinic acid. Yamanaka K, et al. **Biol Pharm Bull** 1997 Feb;20(2):163–7

TOXICITY

The inhibitory effect of selenium on induction of tetraploidy by dimethylarsinic acid in Chinese hamster cells. Ueda H, et al. **Anticancer Res** 1997 May–Jun;17(3C):1939–43

Dimethylarsinic acid causes apoptosis in HL–60 cells via interaction with glutathione. Ochi T, et al. **Arch Toxicol** 1996;70(12):815–21

Cell–nuclear accumulation of 72–kDa stress protein induced by dimethylated arsenics. Kato K, et al. **Biol Pharm Bull** 1997 Apr;20(4):364–9

Promoting effects of dimethylarsinic acid on N–butyl–N–(4–hydroxybutyl)nitrosamine–induced urinary bladder carcinogenesis in rats. Wanibuchi H, et al. **Carcinogenesis** 1996 Nov;17(11):2435–9

Possible carcinogenic potential of dimethylarsinic acid as assessed in rat in vivo models: a review. Yamamoto S, et al. **Mutat Res** 1997 Jun;386(3):353–61 (42 ref.)

Dimethylarsinic acid treatment alters six different rat biochemical parameters: relevance to arsenic carcinogenesis. Brown JL, et al. **Teratog Carcinog Mutagen** 1997;17(2):71–84

URINE

Methylation study of a population environmentally exposed to arsenic in drinking water. Hopenhayn–Rich C, et al. **Environ Health Perspect** 1996 Jun;104(6):620–8

Influence of dietary selenium on the disposition of arsenate in the female B6C3F1 mouse. Kenyon EM, et al. **J Toxicol Environ Health** 1997 Jun 27;51(3):279–99

CAD–CAM see **COMPUTER–AIDED DESIGN**

CADAVER

The unclaimed cadaver. Coelho DH, et al. **Acad Med** 1997 Sep;72(9):741–3

Genetics and the dead: implications for genetics research with samples from deceased persons. DeRenzo EG, et al. **Am J Med Genet** 1997 Mar 31;69(3):332–4

Cadavers as teachers [letter; comment] Ellis R. **Ann Emerg Med** 1997 Jul;30(1):117–8. Comment on: Ann Emerg Med 1996 Dec;28(6):641–7.

Compound osteosynthesis of pathological fractures of the proximal femoral shaft. Experimental studies on the biomechanical effects of additional intramedullary splinting. Heller KD, et al. **Arch Orthop Trauma Surg** 1996; 115(2):115–7

Non–heart–beating cadaver procurement and the work of ethics committees. Spielman B, et al. **Camb Q Healthc Ethics** 1997 Summer;6(3):282–7

Common questions regarding anatomical bequests [editorial] Cahill DR, et al. **Clin Anat** 1997;10(3):218–9

Relationships between the dimensions of the human aortic and pulmonary valve leaflets: implications on Ross' operation. Santiago MT, et al. **Eur J Cardiothorac Surg** 1996;10(8):599–602

Distal soft tissue release using direct and indirect approaches: an anatomic study. Lin I, et al. **Foot Ankle Int** 1996 Aug; 17(8):458–63

Quantitative analysis of cancellous bone graft available from the greater trochanter. Lindberg EJ, et al. **Foot Ankle Int** 1996 Aug;17(8):473–6

Coronal plane rotation of the first metatarsal [see comments] Saltzman CL, et al. **Foot Ankle Int** 1996 Mar;17(3):157–61 . Comment in: Foot Ankle Int 1996 Nov;17(11):720–1.

Comparative biomechanics of the sliding screw–plate and the Bousquet nail–plate. Steriopoulos K, et al. **Int Orthop** 1996;20(1):51–4

Composting alternative for animal carcass disposal. Glanville TD, et al. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1116–20 (23 ref.)

Rights of possession in human corpses [letter] Dearlove O. **J Clin Pathol** 1997 Apr;50(4):355

Rights of possession in human corpses [editorial] Hudson M. **J Clin Pathol** 1997 Feb;50(2):90–1

Better to lay it out on the table rather than do it behind the curtain: hospitals need to obtain consent before using newly deceased patients to teach resuscitation procedures. Kerns AF. **J Contemp Health Law Policy** 1997 Spring; 13(2):581–612 (197 ref.)

Fentanyl patches left on dead bodies — potential source of drug for abusers. Flannagan LM, et al. **J Forensic Sci** 1996 Mar;41(2):320–1

Cerebral oximetry in dead subjects [letter; comment] Shah N. **J Neurosurg Anesthesiol** 1997 Jan;9(1):76–7. Comment on: J Neurosurg Anesthesiol 1996 Jul;8(3):189–93.

The body in question [editorial] **Lancet** 1997 Apr 19; 349(9059):1111

Teaching resuscitation on the newly deceased: do we want to know? [editorial; comment] Ashby R. **Med J Aust** 1996 Oct 21;165(8):412–3. Comment on: Med J Aust 1996 Oct 21;165(8):445–7.

Teaching resuscitation skills using the newly deceased [see comments] Ginifer C, et al. **Med J Aust** 1996 Oct 21; 165(8):445–7. Comment in: Med J Aust 1996 Oct 21;165(8):412–2.

Post mortem caesarian section [letter] Ravindran J. **Med J Malaysia** 1995 Sep;50(3):284–5 (3 ref.)

Biomechanical analysis of the lumbar spine. Božić B, et al. **Minim Invasive Neurosurg** 1997 Mar;40(1):24–6

Endo–neuro–sonography: anatomic aspects of the ventricles. Resch KD, et al. **Minim Invasive Neurosurg** 1997 Mar; 40(1):2–7

Varus migration of PCA stems. Ries MD, et al. **Orthopedics** 1996 Jul;19(7):581–5; discussion 585–6

Procedures for embalming cadavers for the dissecting laboratory. Macdonald GJ, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):363–5 (4 ref.)

Fate of kidneys retrieved from the same donor and grafted into different recipients: do donor related factors influence the graft outcome? Bertoni E, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):125–6

Living donor kidney transplants: superior success rates despite histoincompatibilities. Cecka JM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):203

Cadaveric organ procurement—an overview of two aspects: donor hospital networks, and minority donation. First MR. **Transplant Proc** 1997 Feb–Mar;29(1–2):70–2

Special symposium on cadaveric organ procurement. Lloveras J. **Transplant Proc** 1997 Feb–Mar;29(1–2):1603

Cadaver kidney transplantation in patients more than 65 years old. Barry JM, et al. **World J Urol** 1996;14(4):243–8

Contemporary criteria for cadaveric organ donation in renal transplantation: the need for better selection parameters. Taylor RJ, et al. **World J Urol** 1996;14(4):225–9 (23 ref.)

Long–term follow–up of kidneys transplanted from elderly

CADAVER

cadaveric donors. Wyner LM, et al. **World J Urol** 1996; 14(4):265–7

[Availability of livers from cadaver donors in Hungary] Görög D, et al. **Orv Hetil** 1996 Oct 20;137(42 Suppl 1):2371–3 (Eng. Abstr.) **(Hun)**

[The preservability of carboxyhemoglobin in cadaveric blood] Dobroriz AM, et al. **Sud Med Ekspert** 1997 Jul–Sep; 40(3):23 (Eng. Abstr.) **(Rus)**

[An analysis of Eglonyl in cadaveric material] Stepanova EN, et al. **Sud Med Ekspert** 1997 Jul–Sep;40(3):28–30 (Eng. Abstr.) **(Rus)**

[Renal neuroadrenergic effects. Part I. Renal ischemia caused by sympathetic stimulation and risk factors of cadaver donor] García Matilla F, et al. **Actas Urol Esp** 1997 Mar; 21(3):236–41 (38 ref.) (Eng. Abstr.) **(Spa)**

[Is there an age limit for cadaveric kidney donors currently?] Cofán Pujol F, et al. **Arch Esp Urol** 1996 Dec; 49(10):1013–20 (61 ref.) (Eng. Abstr.) **(Spa)**

[The cadaver: legal, ethical and technical considerations (letter)] López-Navidad A. **Med Clin (Barc)** 1997 Feb 8; 108(5):197–8 **(Spa)**

CADAVERINE

ANALOGS & DERIVATIVES

Formation of cadaverine derivatives in Saccharomyces cerevisiae. Walters DR, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):255–9

ANALYSIS

Gas chromatographic method for putrescine and cadaverine in canned tuna and mahimahi and fluorometric method for histamine (minor modification of AOAC Official Method 977.13): collaborative study. Rogers PL, et al. **J AOAC Int** 1997 May–Jun;80(3):591–602

[Digestive amines of bacterial origin and behavior disorders. Apropos of a case] Gabastou JM, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):275–81 (Eng. Abstr.) **(Fre)**

CADHERINS

Cytoskeletal mechanics in confluent epithelial cells probed through integrins and E-cadherins. Potard US, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1654–63

The E-cadherin-mediated cell-cell adhesion system in human cancers. Tamura S. **Br J Surg** 1997 Jul;84(7):899–900

L1, N-cadherin, and laminin induce distinct distribution patterns of cytoskeletal elements in growth cones. Burden-Gulley SM, et al. **Cell Motil Cytoskeleton** 1996; 35(1):1–23

Protocadherins and diversity of the cadherin superfamily. Suzuki ST. **J Cell Sci** 1996 Nov;109 (Pt 11):2609–11 (22 ref.)

ANALYSIS

Differential expression of desmosomal glycoproteins in keratoacanthoma and squamous cell carcinoma of the skin: an immunohistochemical aid to diagnosis [published erratum appears in Acta Derm Venereol 1996 Nov;76(6):504] Krunic AL, et al. **Acta Derm Venereol** 1996 Sep;76(5):394–8

A case of Neumann type pemphigus vegetans showing reactivity with the 130 kD pemphigus vulgaris antigen [letter] Ohata Y, et al. **Acta Derm Venereol** 1996 Mar; 76(2):169–70

Docetaxel enhances the expression of E-cadherin and carcinoembryonic antigen (CEA) on human colon cancer cell lines in vitro. Eckert K, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):7–12

Reduced expression of molecules of the cadherin/catenin complex in the transition from colorectal adenoma to carcinoma. Hao X, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2241–7

Expression of E-cadherin, alpha, beta and gamma-catenin in human colorectal cancer. Hiscox S, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1349–54

Expression of E-cadherin and catenins in invasive mammary carcinomas. Zschiesche W, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):561–7

Immunocytochemical localization and expression of E-cadherin, beta-catenin, and plakoglobin in the baboon (Papio anubis) corpus luteum. Khan-Dawood FS, et al. **Biol Reprod** 1996 Aug;55(2):246–53

Spontaneous apoptosis in gallbladder carcinoma. Relationships with clinicopathologic factors, expression of E-cadherin, bcl-2 protooncogene, and p53 oncosuppressor gene. Sasatomi E, et al. **Cancer** 1996 Nov 15;78(10):2101–10

Immunohistochemical detection of E-cadherin in differentiated thyroid carcinomas correlates with clinical outcome. von Wasielewski R, et al. **Cancer Res** 1997 Jun 15;57(12):2501–7

Remodeling of pineal epithelium in the fetal rat as delineated by immunohistochemistry of laminin and cadherin. Fujieda H, et al. **Cell Tissue Res** 1997 Feb;287(2):263–74

Fine structural immunocytochemistry of catenins in amphibian and mammalian muscle. Kurth T, et al. **Cell Tissue Res** 1996 Oct;286(1):1–12

E-cadherin cell-adhesion molecule expression as a diagnostic adjunct in urothelial cytology. Ross JS, et al. **Diagn Cytopathol** 1996 Jun;14(4):310–5

M-cadherin distribution in the mouse adult neuromuscular system suggests a role in muscle innervation. Cifuentes-Diaz C, et al. **Eur J Neurosci** 1996 Aug; 8(8):1666–76

Abnormal immunoreactivity of the E-cadherin-catenin complex in gastric carcinoma: relationship with patient survival. Jawhari A, et al. **Gastroenterology** 1997 Jan; 112(1):46–54

Dissociation and reassembly of adherens junctions during experimental acute pancreatitis. Lerch MM, et al. **Gastroenterology** 1997 Oct;113(4):1355–66

Increasing role of immunopathology in diagnosis of malignant mesothelioma [editorial; comment]] Sheibani K. **Hum Pathol** 1997 Jun;28(6):639–40. Comment on: Hum Pathol 1997 Jun;28(6):641–5.

E-cadherin expression in upper-urinary-tract carcinoma. Nakanishi K, et al. **Int J Cancer** 1997 Aug 22;74(4):446–9

E-cadherin gene alterations are rare events in thyroid tumors. Soares P, et al. **Int J Cancer** 1997 Jan 6;70(1):32–8

E-cadherin expression in human epithelial ovarian cancer and normal ovary. Sundfeldt K, et al. **Int J Cancer** 1997 Jun 20;74(3):275–80

Relation between aberrant alpha-catenin expression and loss of E-cadherin function in prostate cancer. Umbas R, et al. **Int J Cancer** 1997 Aug 22;74(4):374–7

The catenin/cadherin adhesion system is localized in synaptic junctions bordering transmitter release zones. Uchida N, et al. **J Cell Biol** 1996 Nov;135(3):767–79

Protocadherin Pcdh2 shows properties similar to, but distinct from, those of classical cadherins. Obata S, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3765–73

Restricted expression of R-cadherin by brain nuclei and neural circuits of the developing chicken brain. Arndt K, et al. **J Comp Neurol** 1996 Sep 23;373(3):373–99

Expression of E-cadherin in skin carcinomas. Tada H, et al. **J Dermatol** 1996 Feb;23(2):104–10

The epidermal stem cell compartment: variation in expression levels of E-cadherin and catenins within the basal layer of human epidermis. Molès JP, et al. **J Histochem Cytochem** 1997 Jun;45(6):867–74

Identification of novel cadherins expressed in human melanoma cells. Matsuyoshi N, et al. **J Invest Dermatol** 1997 Jun;108(6):908–13

E-cadherin expression in human melanoma. Danen EH, et al. **Melanoma Res** 1996 Apr;6(2):127–31

Expression of E-cadherin, alpha-catenin, beta-catenin and plakoglobin in esophageal carcinomas and its prognostic significance: immunohistochemical analysis of 96 lesions. Nakanishi Y, et al. **Oncology** 1997 Mar–Apr;54(2):158–65

[Difference in expression of epithelial adhesion molecules between primary and metastatic lesions in small-cell lung cancer] Yoshida H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1077–83 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Molecular cloning of an alternative human alphaE-catenin cDNA. Linkels M, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):177–81

Expression of E-cadherin and alpha- and beta-catenin mRNAs in ovarian cancers. Fujimoto J, et al. **Cancer Lett** 1997 May 19;115(2):207–12

N-cadherin-catenin interaction: necessary component of cardiac cell compartmentalization during early vertebrate heart development. Linask KK, et al. **Dev Biol** 1997 May 15;185(2):148–64

Cadherins in the developing central nervous system: an adhesive code for segmental and functional subdivisions. Redies C, et al. **Dev Biol** 1996 Dec 15;180(2):413–23 (61 ref.)

Expression of cadherin-11 delineates boundaries, neuromeres, and nuclei in the developing mouse brain. Kimura Y, et al. **Dev Dyn** 1996 Aug;206(4):455–62

Restricted expression of cadherin-8 in segmental and functional subdivisions of the embryonic mouse brain. Korematsu K, et al. **Dev Dyn** 1997 Feb;208(2):178–89

Expression and cell membrane localization of catenins during mouse preimplantation development. Ohsugi M, et al. **Dev Dyn** 1996 Aug;206(4):391–402

Connexins and E-cadherin are differentially expressed during trophoblast invasion and placenta differentiation in the rat. Reuss B, et al. **Dev Dyn** 1996 Feb;205(2):172–82

Cadherin-mediated cell adhesion and cell motility in Drosophila trachea regulated by the transcription factor Escargot. Tanaka-Matakatsu M, et al. **Development** 1996 Dec;122(12):3697–705

E-cadherin and integrin cell adhesion molecule expression in invasive and in situ carcinoma of the cervix. Jeffers MD, et al. **Gynecol Oncol** 1997 Mar;64(3):481–6

Cadherins in reactive lymph nodes and lymphomas: high expression in anaplastic large cell lymphomas [see comments] Ashton-Key M, et al. **Histopathology** 1996 Jan; 28(1):55–9. Comment in: Histopathology 1996 Dec;29(6):589–90.

Expression of beta-catenin in normal breast tissue and breast carcinoma: a comparative study with epithelial cadherin and alpha-catenin. Hashizume R, et al. **Histopathology** 1996 Aug;29(2):139–46

E-cadherin in mesothelioma [letter; comment] Jeffers M. **Hum Pathol** 1996 Nov;27(11):1245–6. Comment on: Hum Pathol 1995 Dec;26(12):1363–9.

N-cadherin protein distribution in normal embryos and in embryos carrying mutations in the homeobox gene Hoxa-4. Packer AI, et al. **Int J Dev Biol** 1997 Jun;41(3):459–68

E-cadherin mRNA expression in breast carcinomas correlates with overall and disease-free survival. Guriec N, et al. **Invasion Metastasis** 1996;16(1):19–26

Accumulation of Armadillo induced by Wingless, Dishevelled, and dominant-negative Zeste-White 3 leads to elevated DE-cadherin in Drosophila clone 8 wing disc cells. Yanagawa Si, et al. **J Biol Chem** 1997 Oct 3; 272(40):25243–51

Enhanced E-cadherin expression and increased calcium-dependent cell-cell adhesion in human T-cell leukemia virus type I Tax-expressing PC12 cells. Kitajima I, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):609–17

The role of alpha E beta 7 integrin (CD103) and E-cadherin in epidermotropism in cutaneous T-cell lymphoma. Dietz SB, et al. **J Cutan Pathol** 1996 Aug;23(4):312–8

Inhibition of proliferation of prostate cancer cells by a 19-nor-hexafluoride vitamin D3 analogue involves the induction of p21waf1, p27kip1 and E-cadherin. Campbell MJ, et al. **J Mol Endocrinol** 1997 Aug;19(1):15–27

Expression of epithelial cadherin and cavernous sinus invasion in human pituitary adenomas. Kawamoto H, et al. **J Neurooncol** 1997 Sep;34(2):105–9

Inactivation of the E-cadherin gene in primary gastric carcinomas and gastric carcinoma cell lines. Tamura G, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1153–9

Immunocytochemical localization and expression of E-cadherin and beta-catenin in the human corpus luteum. Khan-Dawood FS, et al. **Mol Hum Reprod** 1996 Oct; 2(10):753–7

Downregulation in vivo of the invasion-suppressor molecule E-cadherin in experimental and clinical cancer. Mareel M, et al. **Princess Takamatsu Symp** 1994;24:63–80 (71 ref.)

Molecular characterization of Br-cadherin, a developmentally regulated, brain-specific cadherin. Selig S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2398–403

Targeted null-mutation in the vascular endothelial-cadherin gene impairs the organization of vascular-like structures in embryoid bodies. Vittet D, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6273–8

Changes in gene structure and regulation of E-cadherin during epithelial development, differentiation, and disease. Jankowski JA, et al. **Prog Nucleic Acid Res Mol Biol** 1997; 57:187–215 (192 ref.)

Expression of E-cadherin and alpha- and beta-catenin mRNAs in uterine cervical cancers. Fujimoto J, et al. **Tumour Biol** 1997;18(4):206–12

E-cadherin (E-cad) expression in duct carcinoma in situ (DCIS) of the breast. Gupta SK, et al. **Virchows Arch** 1997 Jan;430(1):23–8

BLOOD

E- and P-cadherin expression in tumor tissues and soluble E-cadherin levels in sera of patients with skin cancer. Shirahama S, et al. **J Dermatol Sci** 1996 Oct;13(1):30–6

CHEMISTRY

Structure and function of the mucosal T-cell integrin alpha E beta 7. Kilshaw PJ, et al. **Biochem Soc Trans** 1997 May; 25(2):433–9 (48 ref.)

Identification of a binding site for integrin alphaEbeta7 in the N-terminal domain of E-cadherin. Karecla PI, et al. **J Biol Chem** 1996 Nov 29;271(48):30909–15

Structural and functional diversity of cadherin superfamily: are new members of cadherin superfamily involved in signal transduction pathway? Suzuki ST. **J Cell Biochem** 1996 Jun 15;61(4):531–42 (40 ref.)

Lateral dimerization is required for the homophilic binding activity of C-cadherin. Brieher WM, et al. **J Cell Biol** 1996 Oct;135(2):487–96

Plakoglobin domains that define its association with the desmosomal cadherins and the classical cadherins: identification of unique and shared domains. Wahl JK, et al. **J Cell Sci** 1996 May;109 (Pt 5):1143–54

Transport to endoplasmic reticulum by signal peptide, but not proteolytic processing, is required for formation of conformational epitopes of pemphigus vulgaris antigen (Dsg3). Amagai M, et al. **J Invest Dermatol** 1996 Oct; 107(4):539–42

cDNA cloning of the 210-kDa paraneoplastic pemphigus antigen reveals that envoplakin is a component of the antigen complex. Kim SC, et al. **J Invest Dermatol** 1997 Sep;109(3):365–9

DRUG EFFECTS

Secondary structure of the HAV peptide which regulates cadherin-cadherin interaction. Lutz KL, et al. **J Biomol Struct Dyn** 1995 Dec;13(3):447–55

GENETICS

E-cadherin transforms embryonic corneal fibroblasts to stratified epithelium with desmosomes. Vanderburg CR, et al. **Acta Anat (Basel)** 1996;157(2):87–104

Multiple cadherins are expressed in human fibroblasts. Matsuyoshi N, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):355–8

Isolation of a Xenopus laevis genomic clone representing a

novel N-cadherin related gene. Burbidge SA, et al. **Biochim Biophys Acta** 1997 May 27;1356(3):253-7

A comprehensive survey of the cadherins expressed in the testes of fetal, immature, and adult mice utilizing the polymerase chain reaction. Munro SB, et al. **Biol Reprod** 1996 Oct;55(4):822-7

Expression of epithelial cadherin in the developing and adult pig ovary. Ryan PL, et al. **Biol Reprod** 1996 Nov; 55(5):1091-7

Loss of heterozygosity at chromosome 16q in prostate adenocarcinoma: identification of three independent regions. Latil A, et al. **Cancer Res** 1997 Mar 15; 57(6):1058-62

Transcriptional defects underlie loss of E-cadherin expression in breast cancer. Ji X, et al. **Cell Growth Differ** 1997 Jul;8(7):773-8

Molecular cloning of the E-cadherin cDNAs from rabbit corneal epithelium. Mohan R, et al. **Curr Eye Res** 1995 Dec;14(12):1136-45

Cadherin-6 expression transiently delineates specific rhombomeres, other neural tube subdivisions, and neural crest subpopulations in mouse embryos. Inoue T, et al. **Dev Biol** 1997 Mar 15;183(2):183-94

Ventral neural cadherin, a novel cadherin expressed in a subset of neural tissues in the zebrafish embryo. Franklin JI, et al. **Dev Dyn** 1996 Jun;206(2):121-30

Cloning and expression analysis of cadherin-10 in the CNS of the chicken embryo. Fushimi D, et al. **Dev Dyn** 1997 Jul;209(3):269-85

Regulated expression of cadherin-11 in human epithelial cells: a role for cadherin-11 in trophoblast-endometrium interactions? MacCalman CD, et al. **Dev Dyn** 1996 Jun; 206(2):201-11

cdh-3, a gene encoding a member of the cadherin superfamily, functions in epithelial cell morphogenesis in Caenorhabditis elegans. Pettitt J, et al. **Development** 1996 Dec;122(12):4149-57

Estrogens potentiate the stimulatory effects of follicle-stimulating hormone on N-cadherin messenger ribonucleic acid levels in cultured mouse Sertoli cells. MacCalman CD, et al. **Endocrinology** 1997 Jan;138(1):41-8

Expression of E-cadherin, alpha- and beta-catenin mRNAs in ovarian endometriosis. Fujimoto J, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug;67(2):179-83

Isolation and characterization of the promoter region of the chicken N-cadherin gene. Li B, et al. **Gene** 1997 May 20; 191(1):7-13

Phenotypic analysis of null mutants for DE-cadherin and Armadillo in Drosophila ovaries reveals distinct aspects of their functions in cell adhesion and cytoskeletal organization. Oda H, et al. **Genes Cells** 1997 Jan;2(1):29-40

Allele loss, replication errors and loss of expression of E-cadherin in colorectal cancers. Ilyas M, et al. **Gut** 1997 May;40(5):654-9

Alteration of E-cadherin, alpha- and beta-catenin mRNA expression in human uterine endometrium during the menstrual cycle. Fujimoto J, et al. **Gynecol Endocrinol** 1996 Jun;10(3):187-91

An efficient and reliable multiplex PCR-SSCP mutation analysis test applied to the human E-cadherin gene. Berx G, et al. **Hum Mutat** 1997;9(6):567-74

The E-cadherin gene is silenced by CpG methylation in human hepatocellular carcinomas. Kanai Y, et al. **Int J Cancer** 1997 May 2;71(3):355-9

Identification of human cadherin-14, a novel neurally specific type II cadherin, by protein interaction cloning. Shibata T, et al. **J Biol Chem** 1997 Feb 21;272(8):5236-40

Targeted disruption of the pemphigus vulgaris antigen (desmoglein 3) gene in mice causes loss of keratinocyte cell adhesion with a phenotype similar to pemphigus vulgaris. Koch PJ, et al. **J Cell Biol** 1997 Jun 2; 137(5):1091-102

The interactions of APC, E-cadherin and beta-catenin in tumour development and progression. Ilyas M, et al. **J Pathol** 1997 Jun;182(2):128-37 (83 ref.)

Inactivation of the E-cadherin gene in primary gastric carcinomas and gastric carcinoma cell lines. Tamura G, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1153-9

Vascular endothelial cadherin (VE-cadherin): cloning and role in endothelial cell-cell adhesion. Ali J, et al. **Microcirculation** 1997 Jun;4(2):267-77

Analysis of the E-cadherin and P-cadherin promoters in murine keratinocyte cell lines from different stages of mouse skin carcinogenesis. Faraldo ML, et al. **Mol Carcinog** 1997 Sep;20(1):33-47

Cadherin function is required for axon outgrowth in retinal ganglion cells in vivo. Riehl R, et al. **Neuron** 1996 Nov; 17(5):837-48

E-cadherin is inactivated in a majority of invasive human lobular breast cancers by truncation mutations throughout its extracellular domain. Berx G, et al. **Oncogene** 1996 Nov 7;13(9):1919-25

Molecular characterization of Br-cadherin, a developmentally regulated, brain-specific cadherin. Selig S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2398-403

Changes in gene structure and regulation of E-cadherin during epithelial development, differentiation, and disease. Jankowski JA, et al. **Prog Nucleic Acid Res Mol Biol** 1997; 57:187-215 (192 ref.)

[Expression of homotypic adhesion molecules is impaired in tumor progression of colorectal tumors] Ghadimi BM, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:55-8 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Nonsecretory IgA1 autoantibodies targeting desmosomal component desmoglein 3 in intraepidermal neutrophilic IgA dermatosis. Wang J, et al. **Am J Pathol** 1997 Jun; 150(6):1901-7

Herpetiform pemphigus showing reactivity with pemphigus vulgaris antigen (desmoglein 3). Kubo A, et al. **Br J Dermatol** 1997 Jul;137(1):109-13

Gap junction formation between cultured embryonic lens cells is inhibited by antibody to N-cadherin. Frenzel EM, et al. **Dev Biol** 1996 Oct 10;179(1):1-16

Recognition of pemphigus antigens in drug-induced pemphigus vulgaris and pemphigus foliaceus. Brenner S, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):919-23

VE-cadherin antibody accelerates neutrophil recruitment in vivo. Gotsch U, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):583-8

Development and characterization of desmoglein-3 specific T cells from patients with pemphigus vulgaris. Lin MS, et al. **J Clin Invest** 1997 Jan 1;99(1):31-40

Induction of blister-causing antibodies by a recombinant full-length, but not the extracellular, domain of the pemphigus vulgaris antigen (desmoglein 3). Memar O, et al. **J Immunol** 1996 Oct 1;157(7):3171-7

Transport to endoplasmic reticulum by signal peptide, but not proteolytic processing, is required for formation of conformational epitopes of pemphigus vulgaris antigen (Dsg3). Amagai M, et al. **J Invest Dermatol** 1996 Oct; 107(4):539-42

Identification of a new antibody population directed against a desmosomal plaque antigen in pemphigus vulgaris and pemphigus foliaceus. Joly P, et al. **J Invest Dermatol** 1997 Apr;108(4):469-75

Antibody recognition of peptide sequences from the cell-cell adhesion proteins: N- and E-cadherins. Lutz KL, et al. **Pept Res** 1996 Sep-Oct;9(5):233-9

ISOLATION & PURIFICATION

Patterns of desmocollin synthesis in human epithelia: immunolocalization of desmocollins 1 and 3 in special epithelia and in cultured cells. Nuber UA, et al. **Eur J Cell Biol** 1996 Sep;71(1):1-13

METABOLISM

Expression of intermediate filaments and N-cadherin adhesion molecule in the thymus of domesticated birds. Minkó K, et al. **Acta Biol Hung** 1996;47(1-4):323-40

The expression of integrins and cadherins in normal human uterus and uterine leiomyomas. Taylor CV, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):411-9

Nonmalignant epithelial cells, potentially invasive in human endometriosis, lack the tumor suppressor molecule E-cadherin. Gaetje R, et al. **Am J Pathol** 1997 Feb; 150(2):461-7

Downregulation of E-cadherin in the reparative epithelium of the human gastrointestinal tract. Hanby AM, et al. **Am J Pathol** 1996 Mar;148(3):723-9

Improved prognosis assessment for patients with bladder carcinoma. Otto T, et al. **Am J Pathol** 1997 Jun; 150(6):1919-23

Expression of P-cadherin identifies prostate-specific-antigen-negative cells in epithelial tissues of male sexual accessory organs and in prostatic carcinomas. Implications for prostate cancer biology. Soler AP, et al. **Am J Pathol** 1997 Aug;151(2):471-8

Expression of E-cadherin-associated molecules (alpha-, beta-, and gamma-catenins and p120) in colorectal polyps. Valizadeh A, et al. **Am J Pathol** 1997 Jun;150(6):1977-84

Developmental change in expression of highly polysialylated neural cell adhesion molecule in C-cells in rat thyroid gland. Nishiyama I, et al. **Anat Embryol (Berl)** 1996 Oct; 194(4):419-26

Sex-dependent expression of placental (P)-cadherin during mouse gonadogenesis. Lin LH, et al. **Anat Rec** 1996 Dec; 246(4):535-44

Differential expression of placental (P)-cadherin in sertoli cells and peritubular myoid cells during postnatal development of the mouse testis. Lin LH, et al. **Anat Rec** 1996 Feb;244(2):155-64

Hormonal regulation of N-cadherin mRNA levels in rat granulosa cells. Farookhi R, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:165-72

Calcium binding and homoassociation of E-cadherin domains. Koch AW, et al. **Biochemistry** 1997 Jun 24; 36(25):7697-705

Single-particle tracking: the distribution of diffusion coefficients. Saxton MJ. **Biophys J** 1997 Apr;72(4):1744-53

Expression of the E-cadherin-catenin cell adhesion complex in primary squamous cell carcinomas of the head and neck and their nodal metastases. Andrews NA, et al. **Br J Cancer** 1997;75(10):1474-80

Decreased E-cadherin expression is associated with haematogenous recurrence and poor prognosis in patients with squamous cell carcinoma of the oesophagus. Tamura S, et al. **Br J Surg** 1996 Nov;83(11):1608-14

Cadherin-6, a cell adhesion molecule specifically expressed in the proximal renal tubule and renal cell carcinoma. Paul R, et al. **Cancer Res** 1997 Jul 1;57(13):2741-8

Aberrant E-cadherin and alpha-catenin expression in prostate cancer: correlation with patient survival. Richmond PJ, et al. **Cancer Res** 1997 Aug 1;57(15):3189-93

Regulation of cadherin-mediated adhesion by the small GTP-binding protein Rho in small cell lung carcinoma cells. Tokman MG, et al. **Cancer Res** 1997 May 1; 57(9):1785-93

Changes in gap junctional intercellular communication in mouse skin carcinogenesis. Holden PR, et al. **Carcinogenesis** 1997 Jan;18(1):15-21

N-cadherin promotes adhesion between invasive breast cancer cells and the stroma. Hazan RB, et al. **Cell Adhes Commun** 1997 Mar;4(6):399-411

E-cadherin engagement stimulates tyrosine phosphorylation. Kinch MS, et al. **Cell Adhes Commun** 1997 Mar;4(6):425-37

Disruption of cell-cell adhesion in the presence of sodium butyrate activates expression of the 92 kDa type IV collagenase in MDCK cells. Fiorino AS, et al. **Cell Biol Int** 1996 Jul;20(7):489-99

Molecular cloning of the E-cadherin cDNAs from rabbit corneal epithelium. Mohan R, et al. **Curr Eye Res** 1995 Dec;14(12):1136-45

Cell-junctional and cytoskeletal organization in mouse blastocysts lacking E-cadherin. Ohsugi M, et al. **Dev Biol** 1997 May 15;185(2):261-71

Xenopus cadherins: sorting out types and functions in embryogenesis. Kühl M, et al. **Dev Dyn** 1996 Oct; 207(2):121-34 (104 ref.)

Evidence that tyrosine phosphorylation regulates N-cadherin turnover during retinal development. Lee MM, et al. **Dev Genet** 1997;20(3):224-34

Inhibition of motor axon growth by T-cadherin substrata. Fredette BJ, et al. **Development** 1996 Oct;122(10):3163-71

A role for cadherins in tissue formation. Larue L, et al. **Development** 1996 Oct;122(10):3185-94

Effects of divalent cations on M-cadherin expression and distribution during primary rat myogenesis in vitro. Eng H, et al. **Differentiation** 1997 Feb;61(3):169-76

beta-catenin is a target for the ubiquitin-proteasome pathway. Aberle H, et al. **EMBO J** 1997 Jul 1; 16(13):3797-804

Hormonal dependency of neural cadherin in the binding of round spermatids to Sertoli cells in vitro. Perryman KJ, et al. **Endocrinology** 1996 Sep;137(9):3877-83

Assay of E-cadherin by ELISA in human breast cancers. Maguire TM, et al. **Eur J Cancer** 1997 Mar;33(3):404-8

Cell adhesion-dependent regulation of cell growth during sea urchin development. Ghersi G, et al. **Eur J Cell Biol** 1996 Mar;69(3):259-66

Enhancement of tamoxifen-induced E-cadherin function by Ca2+ channel antagonists in human breast cancer MCF7/6 cells. Charlier C, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2-3):413-6

Localization of laminin, fibronectin, E-cadherin, and integrins in endometrium and endometriosis. Béliard A, et al. **Fertil Steril** 1997 Feb;67(2):266-72

The molecular histology of neoplasia: the role of the cadherin/catenin complex. Smith ME, et al. **Histopathology** 1997 Aug;31(2):107-11 (65 ref.)

Expression of cadherins in benign, borderline, and malignant ovarian epithelial tumors: a clinicopathologic study of 60 cases. Daraï E, et al. **Hum Pathol** 1997 Aug;28(8):922-8

Differential expression of N-cadherin in pleural mesotheliomas and E-cadherin in lung adenocarcinomas in formalin-fixed, paraffin-embedded tissues [see comments] Han AC, et al. **Hum Pathol** 1997 Jun; 28(6):641-5. Comment in: Hum Pathol 1997 Jun;28(6):639-40.

Expression of E-cadherin and N-cadherin in surface epithelial-stromal tumors of the ovary distinguishes mucinous from serous and endometrioid tumors. Peralta Soler A, et al. **Hum Pathol** 1997 Jun;28(6):734-9

Further characterization of BT-R1, the cadherin-like receptor for Cry1Ab toxin in tobacco hornworm (Manduca sexta) midguts. Francis BR, et al. **Insect Biochem Mol Biol** 1997 Jun;27(6):541-50

The fourth armadillo repeat of plakoglobin (gamma-catenin) is required for its high affinity binding to the cytoplasmic domains of E-cadherin and desmosomal cadherin Dsg2, and the tumor suppressor APC protein. Ozawa M, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1077-82

Expression of cadherin-catenin complexes in human leukemia cell lines. Tsutsui J, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):1034-9

Uncoupling of XB/U-cadherin-catenin complex formation from its function in cell-cell adhesion. Finnemann S, et al. **J Biol Chem** 1997 May 2;272(18):11856-62

Differential targeting of T- and N-cadherin in polarized epithelial cells. Koller E, et al. **J Biol Chem** 1996 Nov 22; 271(47):30061-7

Drosophila alpha-catenin and E-cadherin bind to distinct regions of Drosophila Armadillo. Pai LM, et al. **J Biol Chem** 1996 Dec 13;271(50):32411-20

Interaction of the adaptor protein Shc and the adhesion molecule cadherin. Xu Y, et al. **J Biol Chem** 1997 May 23;272(21):13463-6

Interaction of the DF3/MUC1 breast carcinoma-associated antigen and beta-catenin in cell adhesion. Yamamoto M, et al. **J Biol Chem** 1997 May 9;272(19):12492-4

Cadherin-catenin complex: protein interactions and their implications for cadherin function. Aberle H, et al. **J Cell Biochem** 1996 Jun 15;61(4):514-23 (56 ref.)

Quantitative analysis of cadherin-catenin-actin

reorganization during development of cell–cell adhesion. Adams CL, et al. **J Cell Biol** 1996 Dec;135(6 Pt 2):1899–911

Lateral dimerization is required for the homophilic binding activity of C–cadherin. Brieher WM, et al. **J Cell Biol** 1996 Oct;135(2):487–96

Direct Ca2+–dependent heterophilic interaction between desmosomal cadherins, desmoglein and desmocollin, contributes to cell–cell adhesion. Chitaev NA, et al. **J Cell Biol** 1997 Jul 14;138(1):193–201

Involvement of ZO–1 in cadherin–based cell adhesion through its direct binding to alpha catenin and actin filaments. Itoh M, et al. **J Cell Biol** 1997 Jul 14; 138(1):181–92

LI–cadherin–mediated cell–cell adhesion does not require cytoplasmic interactions. Kreft B, et al. **J Cell Biol** 1997 Mar 10;136(5):1109–21

Association between a transmembrane protein tyrosine phosphatase and the cadherin–catenin complex. Kypta RM, et al. **J Cell Biol** 1996 Sep;134(6):1519–29

Lack of association between receptor protein tyrosine phosphatase RPTP mu and cadherins. Zondag GC, et al. **J Cell Biol** 1996 Sep;134(6):1513–7

Role of cadherins 5 and 13 in the aortic endothelial barrier. Haselton FR, et al. **J Cell Physiol** 1997 Jun;171(3):243–51

Estradiol induces E–cadherin degradation in mouse uterine epithelium during the estrous cycle and early pregnancy. Potter SW, et al. **J Cell Physiol** 1996 Oct;169(1):1–14

Loss of density–dependent growth inhibition and dissociation of alpha–catenin from E–cadherin. Tsukatani Y, et al. **J Cell Physiol** 1997 Oct;173(1):54–63

Dynamics of connexins, E–cadherin and alpha–catenin on cell membranes during gap junction formation. Fujimoto K, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):311–22

N–cadherin in adult rat cardiomyocytes in culture. I. Functional role of N–cadherin and impairment of cell–cell contact by a truncated N–cadherin mutant. Hertig CM, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):1–10

N–cadherin in adult rat cardiomyocytes in culture. II. Spatio–temporal appearance of proteins involved in cell–cell contact and communication. Formation of two distinct N–cadherin/catenin complexes. Hertig CM, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):11–20

Syndecan–1 expression in mammary epithelial tumor cells is E–cadherin–dependent. Leppä S, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1393–403

Cadherin binding sites of plakoglobin: localization, specificity and role in targeting to adhering junctions. Troyanovsky RB, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):3069–78

Expression of a dominant negative cadherin mutant inhibits proliferation and stimulates terminal differentiation of human epidermal keratinocytes. Zhu AJ, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):3013–23

Tumour recurrence is associated with Jass grouping but not with differences in E–cadherin expression in moderately differentiated Dukes' B colorectal cancers. Ilyas M, et al. **J Clin Pathol** 1997 Mar;50(3):218–22

Expression of E–cadherin in oesophageal carcinomas from the UK and China: disparities in prognostic significance. Jian WG, et al. **J Clin Pathol** 1997 Aug;50(8):640–4

Localized deposition of M–cadherin in the glomeruli of the granular layer during the postnatal development of mouse cerebellum [published erratum appears in J Comp Neurol 1997 May 26;382(1):139] Bahjaoui–Bouhaddi M, et al. **J Comp Neurol** 1997 Feb 10;378(2):180–95

E cadherin expression in normal and neoplastic canine mammary gland. Restucci B, et al. **J Comp Pathol** 1997 Feb;116(2):191–202

E– and P–cadherin expression in tumor tissues and soluble E–cadherin levels in sera of patients with skin cancer. Shirahama S, et al. **J Dermatol Sci** 1996 Oct;13(1):30–6

Expression of E and P–cadherin by melanoma cells decreases in progressive melanomas and following ultraviolet radiation. Seline PC, et al. **J Invest Dermatol** 1996 Jun; 106(6):1320–4

BDNF/NT4–5 receptor TrkB and cadherin participate in cell–cell adhesion. Zhou H, et al. **J Neurosci Res** 1997 Aug 1;49(3):281–91

E–cadherin quantitative immunocytochemical assays in breast carcinomas. Charpin C, et al. **J Pathol** 1997 Mar; 181(3):294–300

Lack of expression of E–cadherin is associated with dissemination of Langerhans' cell histiocytosis and poor outcome. Geissmann F, et al. **J Pathol** 1997 Mar; 181(3):301–4

Phosphotyrosyl proteins in childhood rhabdomyosarcomas: phosphorylation of catenins and components of the insulin–like growth factor type I receptor signaling cascade. McManus MJ, et al. **J Pediatr Hematol Oncol** 1997 Jul–Aug;19(4):319–26

Modulation of E–cadherin expression in TPA–induced cell motility: well–differentiated human adenocarcinoma cells move as coherent sheets associated with phosphorylation of E–cadherin–catenin complex. Nabeshima K, et al. **Lab Invest** 1997 Jan;76(1):139–51

A paired oocyte adhesion assay reveals the homophilic binding properties of the Xenopus maternal cadherins, XB/U– and EP–cadherin. Münchberg FE, et al. **Mech Dev** 1997 Jun;64(1–2):87–94

Beta–catenin translocation into nuclei demarcates the dorsalizing centers in frog and fish embryos. Schneider S, et al. **Mech Dev** 1996 Jul;57(2):191–8

Experimental manipulations of compaction and their effects on the phosphorylation of uvomorulin. Sefton M, et al. **Mol Reprod Dev** 1996 May;44(1):77–87

Uncoupling cadherin–based adhesion from wingless signalling in Drosophila. Sanson B, et al. **Nature** 1996 Oct 17;383(6601):627–30

Regulation of the invasion suppressor function of the cadherin/catenin complex. Vermeulen S, et al. **Pathol Res Pract** 1996 Jul;192(7):694–707 (97 ref.)

In vivo evidence of the critical role of cadherin–5 in murine vascular integrity. Matsuyoshi N, et al. **Proc Assoc Am Physicians** 1997 Jul;109(4):362–71

An alpha–E–catenin gene trap mutation defines its function in preimplantation development. Torres M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):901–6

Suppression of invasive ability of highly metastatic rat prostate cancer by introduction of human chromosome 8. Kuramochi H, et al. **Prostate** 1997 Apr 1;31(1):14–20

Prognostic significance of E–cadherin expression in human colorectal cancer tissue. Mohri Y. **Surg Today** 1997; 27(7):606–12

Loss of E–cadherin expression associated with lymph node metastases in small breast carcinomas. Hunt NC, et al. **Virchows Arch** 1997 Apr;430(4):285–9

The significance of E–cadherin in transitional–cell carcinoma of the human urinary bladder. Fujisawa M, et al. **World J Urol** 1996;14 Suppl 1:S12–5

Modulation of cell adhesion during epithelial restitution in the gastrointestinal tract. Pignatelli M. **Yale J Biol Med** 1996 Mar–Apr;69(2):131–5 (38 ref.)

[Integrins and cadherins: two superfamilies of adhesive receptors] Gulino D, et al. **Ann Endocrinol (Paris)** 1996; 57(3):139–46 (32 ref.) (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Involvement of E–cadherin in thymus organogenesis and thymocyte maturation. Müller KM, et al. **Immunity** 1997 Mar;6(3):257–64

Cadherins promote skeletal muscle differentiation in three–dimensional cultures. Redfield A, et al. **J Cell Biol** 1997 Sep 22;138(6):1323–31

Regulation of the invasion suppressor function of the cadherin/catenin complex. Vermeulen S, et al. **Pathol Res Pract** 1996 Jul;192(7):694–707 (97 ref.)

PHYSIOLOGY

Structure and function of the mucosal T–cell integrin alpha E beta 7. Kilshaw PJ, et al. **Biochem Soc Trans** 1997 May; 25(2):433–9 (48 ref.)

The cadherin cell–cell adhesion pathway in prostate cancer progression. Paul R, et al. **Br J Urol** 1997 Mar;79 Suppl 1:37–43 (48 ref.)

N–cadherin expression and function in cultured oligodendrocytes. Payne HR, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):9–15

Adhesion or anti–adhesion in cancer: what matters more? Jothy S, et al. **Cancer Metastasis Rev** 1995 Dec; 14(4):363–76 (77 ref.)

E–cadherin transfection down–regulates the epidermal growth factor receptor and reverses the invasive phenotype of human papilloma virus–transfected keratinocytes. Wilding J, et al. **Cancer Res** 1996 Nov 15;56(22):5285–92

Review: a role for the FGF receptor in the axonal growth response stimulated by cell adhesion molecules? Hall H, et al. **Cell Adhes Commun** 1996 Apr;3(6):441–50 (97 ref.)

Cadherin–mediated adhesion is required for normal growth regulation of human gingival epithelial cells. Kandikonda S, et al. **Cell Adhes Commun** 1996 Jul;4(1):13–24

Role of NCAM, cadherins, and microfilaments in cell–cell contact formation in TM4 immature mouse sertoli cells. Sandig M, et al. **Cell Motil Cytoskeleton** 1997;36(2):149–63

E–cadherin and P–cadherin have partially redundant roles in human epidermal stratification. Jensen PJ, et al. **Cell Tissue Res** 1997 May;288(2):307–16

Cadherins and Langerhans cell immunobiology. Udey MC. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:6–8 (32 ref.)

Lateral clustering of the adhesive ectodomain: a fundamental determinant of cadherin function. Yap AS, et al. **Curr Biol** 1997 May 1;7(5):308–15

beta–Catenin is a target for extracellular signals controlling cadherin function: the neurocan–GalNAcPTase connection. Lilien J, et al. **Curr Top Dev Biol** 1997; 35:161–89 (137 ref.)

N–cadherin is involved in myoblast migration and muscle differentiation in the avian limb bud. Brand–Saberi B, et al. **Dev Biol** 1996 Aug 25;178(1):160–73

N–cadherin promotes the commitment and differentiation of skeletal muscle precursor cells. George–Weinstein M, et al. **Dev Biol** 1997 May 1;185(1):14–24

Developmental defects in mouse embryos lacking N–cadherin. Radice GL, et al. **Dev Biol** 1997 Jan 1; 181(1):64–78

A potential role of R–cadherin in striated muscle formation. Rosenberg P, et al. **Dev Biol** 1997 Jul 1;187(1):55–70

Perturbation of the developing Xenopus retinotectal projection following injections of antibodies against beta1 integrin receptors and N–cadherin. Stone KE, et al. **Dev Biol** 1996 Nov 25;180(1):297–310

Roles of cadherins in patterning of the developing brain. Takeichi M, et al. **Dev Neurosci** 1997;19(1):86–7

Cadherins regulate aggregation of pancreatic beta–cells in vivo. Dahl U, et al. **Development** 1996 Sep;122(9):2895–902

Basic fibroblast growth factor and N–cadherin maintain rat granulosa cell and ovarian surface epithelial cell viability by stimulating the tyrosine phosphorylation of the fibroblast growth factor receptors. Trolice MP, et al. **Endocrinology** 1997 Jan;138(1):107–13

Overexpressed IGF–I receptors reduce estrogen growth requirements, enhance survival, and promote E–cadherin–mediated cell–cell adhesion in human breast cancer cells. Guvakova MA, et al. **Exp Cell Res** 1997 Feb 25;231(1):149–62

M–cadherin–mediated cell adhesion and complex formation with the catenins in myogenic mouse cells. Kuch C, et al. **Exp Cell Res** 1997 May 1;232(2):331–8

Grand entry for Listeria. Mengaud J, et al. **Gastroenterology** 1997 Mar;112(3):1045–6

E–cadherin is involved in the intrahepatic metastasis of hepatocellular carcinoma. Osada T, et al. **Hepatology** 1996 Dec;24(6):1460–7

Molecular aspects of cancer metastasis: extracellular regulation of the E–cadherin/catenin complex. Mareel M, et al. **Int J Dev Biol** 1996;Suppl 1:65S–66S

Cadherin cell adhesion molecules in differentiation and embryogenesis. Marrs JA, et al. **Int Rev Cytol** 1996; 165:159–205 (248 ref.)

Regulation of matrilysin expression in cells of squamous cell carcinoma by E–cadherin–mediated cell–cell contact. Borchers AH, et al. **J Cancer Res Clin Oncol** 1997; 123(1):13–20

Cadherin/catenin complex: a target for antiinvasive therapy? Mareel M, et al. **J Cell Biochem** 1996 Jun 15;61(4):524–30 (39 ref.)

Structural and functional diversity of cadherin superfamily: are new members of cadherin superfamily involved in signal transduction pathway? Suzuki ST. **J Cell Biochem** 1996 Jun 15;61(4):531–42 (40 ref.)

The small GTPases Rho and Rac are required for the establishment of cadherin–dependent cell–cell contacts. Braga VM, et al. **J Cell Biol** 1997 Jun 16;137(6):1421–31

Fusion competence of myoblasts rendered genetically null for N–cadherin in culture. Charlton CA, et al. **J Cell Biol** 1997 Jul 28;138(2):331–6

Expression of N–cadherin by human squamous carcinoma cells induces a scattered fibroblastic phenotype with disrupted cell–cell adhesion. Islam S, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1643–54

Cross talk between adhesion molecules: control of N–cadherin activity by intracellular signals elicited by beta1 and beta3 integrins in migrating neural crest cells. Monier–Gavelle F, et al. **J Cell Biol** 1997 Jun 30; 137(7):1663–81

E–cadherin mediates adhesion and suppresses cell motility via distinct mechanisms. Chen H, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):345–56

Control of N–cadherin–mediated intercellular adhesion in migrating neural crest cells in vitro. Monier–Gavelle F, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3839–53

An inhibition of gap–junctional communication by cadherins. Wang Y, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):301–9

Cell adhesion and angiogenesis. Bischoff J. **J Clin Invest** 1997 Feb 1;99(3):373–6 (27 ref.)

Endothelial adherens junctions: implications in the control of vascular permeability and angiogenesis. Dejana E. **J Clin Invest** 1996 Nov 1;98(9):1949–53 (32 ref.)

The role of alpha E beta 7 integrin (CD103) and E–cadherin in epidermotropism in cutaneous T–cell lymphoma. Dietz SB, et al. **J Cutan Pathol** 1996 Aug;23(4):312–8

Endothelial–dependent mechanisms regulate leukocyte transmigration: a process involving the proteasome and disruption of the vascular endothelial–cadherin complex at endothelial cell–to–cell junctions. Allport JR, et al. **J Exp Med** 1997 Aug 18;186(4):517–27

E–cadherin–mediated adhesion involving Langerhans cell–like dendritic cells expanded from murine fetal skin. Jakob T, et al. **J Immunol** 1997 Sep 15;159(6):2693–701

Endothelial cell tube formation depends on cadherin 5 and CD31 interactions with filamentous actin. Matsumura T, et al. **J Immunol** 1997 Apr 1;158(7):3408–16

Analysis of desmosomal cadherin–adhesive function and stoichiometry of desmosomal cadherin–plakoglobin complexes. Kowalczyk AP, et al. **J Invest Dermatol** 1996 Sep;107(3):293–300 (65 ref.)

Dominant negative expression of a cytoplasmically deleted mutant of XB/U–cadherin disturbs mesoderm migration during gastrulation in Xenopus laevis. Kühl M, et al. **Mech Dev** 1996 Jan;54(1):71–82

Vascular endothelial cadherin (VE–cadherin): cloning and role in endothelial cell–cell adhesion. Ali J, et al. **Microcirculation** 1997 Jun;4(2):267–77

Roles of E– and P–cadherin in the human skin. Furukawa F, et al. **Microsc Res Tech** 1997 Aug 15;38(4):343–52 (65 ref.)

A model for central synaptic junctional complex formation based on the differential adhesive specificities of the cadherins. Fannon AM, et al. **Neuron** 1996 Sep;17(3):423–34

Axon patterning requires DN–cadherin, a novel neuronal adhesion receptor, in the Drosophila embryonic CNS. Iwai Y, et al. **Neuron** 1997 Jul;19(1):77–89

Alterations of the cadherin–catenin cell adhesion system in cancers. Kanai Y, et al. **Princess Takamatsu Symp** 1994; 24:51–62 (50 ref.)

Cadherin–dependent organization and disorganization of epithelial architecture. Takeichi M, et al.

Princess Takamatsu Symp 1994;24:28–37 (30 ref.)
Lamina-specific connectivity in the brain: regulation by N-cadherin, neurotrophins, and glycoconjugates. Inoue A, et al. **Science** 1997 May 30;276(5317):1428–31
An old friend in a new home: cadherins at the synapse. Serafini T. **Trends Neurosci** 1997 Aug;20(8):322–3 (24 ref.)
The E-cadherin cell-cell adhesion pathway in urologic malignancies. Morton RA Jr, et al. **World J Urol** 1995; 13(6):364–8 (52 ref.)
[Mechanism of the lymph node metastasis in human esophageal cancer (epidermal growth factor causes the dysfunction of cadherin-mediated cell-cell adhesion)] Shiozaki H. **Hum Cell** 1996 Mar;9(1):31–6 (Eng. Abstr.) **(Jpn)**
[Cadherin family] Ozawa M. **Rinsho Byori** 1996 Sep;Suppl 102:33–9 (34 ref.) **(Jpn)**
[Cell adhesion mediated by cadherin–catenin machinery and signal transduction] Shibamoto S. **Seikagaku** 1996 Oct; 68(10):1650–3 (14 ref.) **(Jpn)**
[Role of cadherin adhesion systems in selective synapse formation] Uchida N, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):525–34 (58 ref.) **(Jpn)**

CADMIUM

Analysis of the 1H-NMR chemical shifts of Cu(I)-, Cu(II)- and Cd-substituted pea plastocyanin. Metal-dependent differences in the hydrogen-bond network around the copper site. Ubbink M, et al. **Eur J Biochem** 1996 Nov 15;242(1):132–47
[Ecologic significance and hygienic regulation of lead and cadmium in various media (literature review)] Egorov IuL, et al. **Med Tr Prom Ekol** 1996;(10):18–25 (55 ref.) **(Rus)**

ADVERSE EFFECTS

Complex study of the physiological role of cadmium. IV. Effects of prolonged dietary exposure of broiler chickens to cadmium. Bokori J, et al. **Acta Vet Hung** 1996; 44(1):57–74
Reversibility of microproteinuria in cadmium workers with incipient tubular dysfunction after reduction of exposure. Roels HA, et al. **Am J Ind Med** 1997 May;31(5):645–52
Simultaneous effects of lead and cadmium on NK cell activity and some phenotypic parameters. Yücesoy B, et al. **Immunopharmacol Immunotoxicol** 1997 Aug;19(3):339–48
Environmental cadmium exposure, hypertension and cardiovascular risk. Nakagawa H, et al. **J Cardiovasc Risk** 1996 Feb;3(1):11–7 (58 ref.)
Public health implications of environmental exposure to cadmium and lead: an overview of epidemiological studies in Belgium. Working Groups. Staessen JA, et al. **J Cardiovasc Risk** 1996 Feb;3(1):26–41 (155 ref.)
Assessing the risk from environmental cadmium exposure. Wood AL. **J Public Health Med** 1996 Dec;18(4):432–6
Fatal chemical pneumonitis due to cadmium fumes. Fernández MA, et al. **Occup Med (Oxf)** 1996 Oct; 46(5):372–4
[A qualitative evaluation of health risk associated with occupational inhalation exposure to cadmium in production plants in Poland] Szymczak W. **Med Pr** 1997;48(1):35–43 (Eng. Abstr.) **(Pol)**

ANALYSIS

Biological monitoring results for cadmium exposed workers. McDiarmid MA, et al. **Am Ind Hyg Assoc J** 1996 Nov; 57(11):1019–23
Follow-up of biologic monitoring results in cadmium workers removed from exposure. McDiarmid MA, et al. **Am J Ind Med** 1997 Sep;32(3):261–7
Determination of cadmium in environmental samples by hydride generation with in situ concentration and atomic absorption detection. Matusiewicz H, et al. **Analyst** 1997 Apr;122(4):331–6
Ultrastructural and electron energy loss spectroscopy studies of sequestration mechanisms of Cd and Cu in the marine diatom Skeletonema costatum. Nassiri Y, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):147–55
Is placenta a good indicator of cadmium and lead exposure? Lagerkvist BI, et al. **Arch Environ Health** 1996 Sep–Oct; 51(5):389–94 (16 ref.)
Determination of lead and cadmium content in the rice consumed in Maracaibo, Venezuela. Buscema I, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):94–8
Lead and cadmium content in human milk from the Northern Adriatic area of Croatia. Frković A, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):16–21
Determination of lead and cadmium in parley tissues grown in the Riyadh area. al-Kathiri MN, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):726–32
Intestinal fish parasites as heavy metal bioindicators: a comparison between Acanthocephalus lucii (Palaeacanthocephala) and the zebra mussel, Dreissena polymorpha. Sures B, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):14–21
Assessment of Polish population exposure to lead and cadmium with special emphasis to the Katowice Province on the basis of metal concentrations in environmental compartments. Gzyl J. **Cent Eur J Public Health** 1997 Jun; 5(2):93–6 (21 ref.)
Meso-2,3-dimercaptosuccinic acid mono-N-alkylamides: syntheses and biological activity as novel in vivo cadmium mobilizing agents. Singh PK, et al. **Chem Res Toxicol** 1996 Sep;9(6):965–9
US Food and Drug Administration survey of cadmium, lead and other elements in clams and oysters. Capar SG, et al. **Food Addit Contam** 1996 Jul;13(5):553–60
Lead and cadmium concentrations in meat, liver and kidney of Slovenian cattle and pigs from 1989 to 1993. Doganoc DZ. **Food Addit Contam** 1996 Feb–Mar;13(2):237–41
Contents of lead and cadmium in selected fish species consumed in Finland in 1993–1994. Tahvonen R, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):647–54
Histochemical staining of cadmium with 2-(8-quinolylazo)-4,5-diphenylimidazole. Sumi Y, et al. **Histochem Cell Biol** 1996 Aug;106(2):223–7
The levels of cadmium, zinc and copper in the renal cortex and liver of the inhabitants of the copper basin. Orłowski C, et al. **Int J Occup Med Environ Health** 1996;9(3):255–63
Nondestructive determination of lead, cadmium, tin, antimony, and barium in ceramic glazes by radioisotope X-ray fluorescence spectrometry. Anderson DL, et al. **J AOAC Int** 1996 Sep–Oct;79(5):1141–57
Biological monitoring of exposure to cadmium, a human carcinogen, as a result of active and passive smoking. Shaham J, et al. **J Occup Environ Med** 1996 Dec; 38(12):1220–8
Comparison of heavy metal concentrations in human umbilical cord in 1980 and 1990. Sugiyama S, et al. **Nippon Hoigaku Zasshi** 1996 Dec;50(6):412–5
In vivo analysis of cadmium in battery workers versus measurements of blood, urine, and workplace air. Börjesson J, et al. **Occup Environ Med** 1997 Jun;54(6):424–31
Lead and cadmium content of two cestodes, Monobothrium wageneri and Bothriocephalus scorpii, and their fish hosts. Sures B, et al. **Parasitol Res** 1997;83(6):618–23
Cadmium levels in wine, beer and other alcoholic beverages: possible sources of contamination. Mena C, et al. **Sci Total Environ** 1996 Mar 29;181(3):201–8
Extraction of lead, cadmium and zinc from overglaze decorations on ceramic dinnerware by acidic and basic food substances. Sheets RW. **Sci Total Environ** 1997 Apr 30; 197(1–3):167–75
Data on arsenic and cadmium contents of some common mushrooms. Vetter J. **Toxicon** 1994 Jan;32(1):11–5
Accumulation of cadmium and lead in red deer and wild boar at the Veluwe, The Netherlands. Kuiters AT. **Vet Q** 1996;18 Suppl 3:S134–5
[What is the current age and sex-related cadmium burden of the human kidney cortex?] Mai S, et al. **Gesundheitswesen** 1997 May;59(5):332–7 (Eng. Abstr.) **(Ger)**
[The content of selected trace elements and heavy metals in the hair of children from Chorzów] Kasznia-Kocot J, et al. **Pediatr Pol** 1996 Jan;71(1):31–6 (Eng. Abstr.) **(Pol)**
[Wild pigeons (Columbia livia, forma urbana) as a medium of monitoring for evaluation of cadmium pollution in urban areas] Orłowski C. **Rocz Panstw Zakl Hig** 1996; 47(4):389–94 (Eng. Abstr.) **(Pol)**
[Quantification of lead, cadmium and chromium by sialochemistry] González M, et al. **Salud Publica Mex** 1997 May–Jun;39(3):179–86 (Eng. Abstr.) **(Spa)**

BLOOD

External quality assessment scheme in Belgium. Heavy metal analyses. De Plaen P, et al. **Ann Ist Super Sanita** 1996; 32(2):215–20
Determination of cadmium and lead levels in human blood of a general Czech population by GFAAS. Korečková-Sysalová J. **Biol Trace Elem Res** 1997 Mar; 56(3):321–9
Blood cadmium, game consumption and tobacco smoking in southern Ontario anglers and hunters. Cole DC, et al. **Can J Public Health** 1997 Jan–Feb;88(1):44–6
Dietary intake of cadmium and lead among the general population in Korea. Moon CS, et al. **Environ Res** 1995 Oct;71(1):46–54
Critical evaluation and review of cadmium concentrations in blood for use in occupational health according to the TRACY protocol. Herber RF, et al. **Int Arch Occup Environ Health** 1997;69(6):372–8 (26 ref.)
Reduced cadmium and lead burden in Japan in the past 10 years. Watanabe T, et al. **Int Arch Occup Environ Health** 1996;68(5):305–14
Background exposure of urban populations to lead and cadmium: comparison between China and Japan. Zhang ZW, et al. **Int Arch Occup Environ Health** 1997; 69(4):273–81
Lead, cadmium, and selenium in the blood of patients with sporadic amyotrophic lateral sclerosis. Vinceti M, et al. **Ital J Neurol Sci** 1997 Apr;18(2):87–92
Interactions between the histidine stimulation of cadmium and zinc influx into human erythrocytes. Horn NM, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):711–8
High blood cadmium levels are not associated with consumption of traditional food among the Inuit of Nunavik. Rey M, et al. **J Toxicol Environ Health** 1997 May; 51(1):5–14
Blood cadmium as an indicator of dose in a long-term follow-up of workers previously exposed to cadmium. Järup L, et al. **Scand J Work Environ Health** 1997 Feb; 23(1):31–6
Cadmium levels in maternal, cord and newborn blood in Mexico City. Galicia-García V, et al. **Toxicol Lett** 1997 Mar 14;91(1):57–61
[Effects of alcohol consumption, smoking, and dietary habits on blood concentrations of lead and cadmium] Roggi C, et al. **Ann Ig** 1996 Nov–Dec;8(6):657–65 **(Ita)**
[The analysis of cadmium and lead levels in the umbilical blood and first urine in newborn infants] Laskowska-Klita T, et al. **Pediatr Pol** 1996 Feb;71(2):103–9 (Eng. Abstr.) **(Pol)**
[Measurement of lead and cadmium in urine and blood by the inversion volta amperometry using SVA-IBM analyzer] Pavlovskaia NA, et al. **Med Tr Prom Ekol** 1996; (11):28–31 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Structure and dynamics of the metal site of cadmium-substituted carboxypeptidase A in solution and crystalline states and under steady-state peptide hydrolysis. Bauer R, et al. **Biochemistry** 1997 Sep 23;36(38):11514–24
Preparation and ESR spectroscopic characterization of the zinc(II) and cadmium(II) complexes of streptonigrin semiquinone. Soedjak HS, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):305–14
Comparison of rac- and meso-2,3-dimercaptosuccinic acids for chelation of mercury and cadmium using chemical speciation models. Fang X, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):284–90
Separation and characterization of the metal-thiolate-cluster domains of recombinant sea urchin metallothionein. Wang Y, et al. **Eur J Biochem** 1996 Nov 1;241(3):835–9
Comparison of the structures of the metal-thiolate binding site in Zn(II)-, Cd(II)-, and Hg(II)-metallothioneins using molecular modeling techniques. Fowle DA, et al. **J Biomol Struct Dyn** 1997 Feb;14(4):393–406
Zinc, cadmium, and mercury complexes of 5,7-dimethyl-[1,2,4]triazolo[1,5-a]pyrimidine (dmtp). Preparation, spectroscopic characterization, and biological activity. X-ray crystal structures of [Zn(dmtp)2Br2], [Hg(dmtp)2Cl2], and [Hdmtp]2[CdBr4].2H2O. Salas JM, et al. **J Inorg Biochem** 1996 Dec;64(4):259–71
Interaction between trace elements: selenium and cadmium ions. Badiello R, et al. **J Trace Elem Med Biol** 1996 Sep; 10(3):156–62
Semi-empirical simulation of Zn/Cd binding site preference in the metal binding domains of mammalian metallothionein [published erratum appears in Protein Eng 1997 Feb;10(2):181] Chang CC, et al. **Protein Eng** 1996 Dec; 9(12):1165–72
Characterization of two forms of cadmium phosphide by magic-angle spinning 31P NMR. Holl SM, et al. **Solid State Nucl Magn Reson** 1996 Feb;6(1):39–46
Determination of 113Cd shielding tensor components in cadmium-phosphine complexes from 31P-decoupled 113Cd cross-polarisation/magic angle spinning spectra. Klaus E, et al. **Solid State Nucl Magn Reson** 1996 Jun; 6(3):225–30
A multiphase 113Cd NMR investigation of metalloporphyrin reorientation in cadmium-substituted myoglobin. McAteer K, et al. **Solid State Nucl Magn Reson** 1996 Dec;7(3):229–38
[Interaction of divalent cadmium ions with nucleotides and native DNA] Sorokin VA, et al. **Biofizika** 1997 Jan–Feb; 42(1):105–16 (Eng. Abstr.) **(Rus)**

METABOLISM

Sorption of cadmium by filamentous soil fungi. Płaza G, et al. **Acta Microbiol Pol** 1996;45(2):193–201
Evaluation of selected parameters of a metabolic profile and levels of cadmium in reproductive organs of rabbits after an experimental administration. Massanyi P, et al. **Acta Physiol Hung** 1995;83(3):267–73
Biodistribution of trace elements in normal, aluminum-overloaded and cadmium-overloaded mice. An application of the radioactive multitracer technique. Amano R, et al. **Ann Clin Lab Sci** 1996 Nov–Dec; 26(6):531–41
Effect of temperature on cadmium and zinc uptake by the midge larvae Chironomus riparius. Bervoets L, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):502–11
Cadmium bioaccumulation in Tetraselmis suecica: an electron energy loss spectroscopy (EELS) study. Nassiri Y, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):156–61
Effect of microbial phytase on cadmium accumulation in pigs. Rimbach G, et al. **Arch Tierernahr** 1996;49(4):279–86
Lack of biliary excretion of Cd linked to an inherent defect of the canalicular isoform of multidrug resistance protein (cMrp) does not abnormally stimulate accumulation of Cd in the Eisai hyperbilirubinemic (EHB) rat liver. Sugawara N, et al. **Arch Toxicol** 1997;71(5):336–9
Roles of the conserved serines of metallothionein in cadmium binding. Emoto T, et al. **Biochem Genet** 1996 Jun; 34(5–6):239–51
Study of the interactions of cadmium and zinc ions with cellular calcium homoeostasis using 19F-NMR spectroscopy. Benters J, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):793–9
A mutant metallothionein which has inverse fragment composition exhibits high cadmium-binding ability. Yamaguchi R, et al. **Biochem Mol Biol Int** 1997 Jan; 41(1):49–56
Kinetic characterization of zinc binding to brush border

membranes from rat kidney cortex: interaction with cadmium. Prasad R, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):69–78

Effects of zinc and copper on uptake of cadmium by LLC-PK1 cells. Endo T, et al. **Biol Pharm Bull** 1996 Jul; 19(7):944–8

Atomic distance estimates from disulfides and high-affinity metal-binding sites in a K+ channel pore. Krovetz HS, et al. **Biophys J** 1997 Jan;72(1):117–26

Distribution of lead, cadmium, and zinc in tissues of hens and chickens from Slovenia. Doganoc DZ. **Bull Environ Contam Toxicol** 1996 Dec;57(6):932–7

Cadmium distribution in sediment and the lugworm Arenicola marina in a low concentration exposure experiment. Everaarts JM, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):771–8

Liming, reacidification, and the mobilization of cadmium from sediments. Fimreite N, et al. **Bull Environ Contam Toxicol** 1996 Dec;57(6):888–94

Accumulation and effect of cadmium in the wood-rotting basidiomycete Daedalea quercina. Gabriel J, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):383–90

Losses of cd, hg, and Zn during metamorphosis in the beetle Tenebrio molitor (Coleoptera: Tenebrionidae). Lindqvist L, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):67–70

Distribution of heavy metals in a woodland food web. Scharenberg W, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):389–96

Effect of selenite and selenate on plant uptake of cadmium by maize (Zea mays). Shanker K, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):419–24

Cadmium and calcium uptake in the mollusc Donax rugosus and effect of a calcium channel blocker. Sidoumou Z, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):318–25

Toxic elements in environmental samples from selected regions in Slovakia. Ursínyová M, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):985–92

Primary structure of a myohemerythrin-like cadmium-binding protein, isolated from a terrestrial annelid oligochaete: Nejmeddine A, et al. **C R Acad Sci III** 1997 Jun;320(6):459–68

Differential role of metallothionein on Zn, Cd and Cu accumulation in hepatic cytosol of rats. Saito S, et al. **Cell Mol Life Sci** 1997 Mar;53(3):267–70

Effects of amino acid replacements on cadmium binding of metallothionein alpha-fragment. Yamasaki F, et al. **Cell Mol Life Sci** 1997 May;53(5):459–65

Determination of cadmium-metallothioneins in zebra mussels exposed to subchronic concentrations of Cd2+. Tessier C, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):246–52

Formation of organic cadmium by marine microorganisms. Yannai S, et al. **Ecotoxicol Environ Saf** 1995 Dec; 32(3):209–14

Effect of excess cadmium ion on the metal binding site of cabbage histidinol dehydrogenase studied by 113Cd-NMR spectroscopy. Kanaori K, et al. **FEBS Lett** 1997 Jul 28; 412(2):301–4

Cadmium-induced alterations in blood-brain barrier permeability and its possible correlation with decreased microvessel antioxidant potential in rat. Shukla A, et al. **Hum Exp Toxicol** 1996 May;15(5):400–5

Reaction of a platinum(IV) complex with native Cd,Zn-metallothionein in vitro. Zhong W, et al. **J Inorg Biochem** 1997 May 15;66(3):179–85

Caco-2 cell line used as an in vitro model to study cadmium accumulation in intestinal epithelial cells. Jumarie C, et al. **J Membr Biol** 1997 Jul 1;158(1):31–48

Binding of endogenous and exogenous cadmium to glutelin in rice grains as studied by HPLC/ICP-MS with use of a stable isotope. Suzuki KT, et al. **J Trace Elem Med Biol** 1997 Jun;11(2):71–6

Bile secretion of cadmium, silver, zinc and copper in the rat. Involvement of various transport systems. Dijkstra M, et al. **Life Sci** 1996;59(15):1237–46

Further observations on the etiology of pre-eclampsia: mobilization of toxic cadmium-metallothionein into the serum during pregnancy. Chisolm JC, et al. **Med Hypotheses** 1996 Aug;47(2):123–8 (93 ref.)

Cadmium-specific formation of metal sulfide 'Q-particles' by Klebsiella pneumoniae. Holmes JD, et al. **Microbiology** 1997 Aug;143 (Pt 8):2521–30

Metallothionein in snail Cd and Cu metabolism [letter] Dallinger R, et al. **Nature** 1997 Jul 17;388(6639):237–8

Ribonuclease P (RNase P) RNA is converted to a Cd(2+)-ribozyme by a single Rp-phosphorothioate modification in the precursor tRNA at the RNase P cleavage site. Warnecke JM, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8924–8

Independent self-assembly of cadmium-binding alpha-fragment of metallothionein in Escherichia coli without participation of beta-fragment. Kurasaki M, et al. **Protein Eng** 1996 Dec;9(12):1173–80

Significance of alpha-fragment of metallothionein in cadmium binding. Kurasaki M, et al. **Protein Eng** 1997 Apr; 10(4):413–6

Gold replacement of cadmium, zinc-binding metallothionein. Saito S, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):101–7

A study of cadmium transport pathways using the Caco-2 cell model. Pigman EA, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):243–7

Comparative studies of cadmium and mercury accumulation by LLC-PK1 cells: effects of pH on uptake and efflux. Endo T, et al. **Toxicol Lett** 1996 Oct;87(2–3):77–83

Outputs of hepatic copper and cadmium stimulated by tetrathiomolybdate (TTM) injection in Long-Evans Cinnamon (LEC) rats pretreated with cadmium, and in Fischer rats pretreated with copper and cadmium. Lai YR, et al. **Toxicology** 1997 Jun 6;120(1):47–54

Analysis of the conformational change of recombinant human papilloma virus type 18 E7 protein induced by metal binding. Kang JH, et al. **Virus Res** 1997 Jun;49(2):147–54

[A possible biological function of cadmium as a calcium analog] Bondar' VS. **Dokl Akad Nauk** 1997 Feb; 352(5):693–4 **(Rus)**

PHARMACOKINETICS

Complex study of the physiological role of cadmium. IV. Effects of prolonged dietary exposure of broiler chickens to cadmium. Bokori J, et al. **Acta Vet Hung** 1996; 44(1):57–74

Low ambient temperature decreases cadmium accumulation in the liver and kidneys of the bank vole (Clethrionomys glareolus). Włostowski T, et al. **Biometals** 1996 Oct; 9(4):363–9

Effects of chelation on the bioconcentraton of cadmium and copper by carp (Cyprinus carpio L.). Xiaorong W, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):120–4

In vivo cadmium mobilization by three novel bis(carbodithioates). Singh PK, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):313–7

The influence of soil moisture content on the bioavailability and toxicity of cadmium for Folsomia candida Willem (Collembola: Isotomidae). van Gestel CA, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):123–32

Influence of different degrees of reduced renal mass on the renal and hepatic disposition of administered cadmium. Zalups RK. **J Toxicol Environ Health** 1997 Jun 27; 51(3):245–64

A new pathway for vacuolar cadmium sequestration in Saccharomyces cerevisiae: YCF1-catalyzed transport of bis(glutathionato)cadmium. Li ZS, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):42–7

Mechanism of mobilization of cadmium by dithiocarbamates in rat primary hepatocyte cultures. Funakoshi T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):177–86

Tissue and cell distribution of copper, zinc and cadmium in the mussel, Mytilus galloprovincialis, determined by autometallography. Soto M, et al. **Tissue Cell** 1996 Oct; 28(5):557–68

Effects of zinc and copper on cadmium uptake by brush border membrane vesicles. Endo T, et al. **Toxicol Lett** 1997 Apr 28;91(2):111–20

The involvement of metallothionein in the intestinal absorption of cadmium in mice. Lind Y, et al. **Toxicol Lett** 1997 May 16;91(3):179–87

Cadmium uptake by a human hepatic cell line (WRL-68 cells). Souza V, et al. **Toxicology** 1997 Jul 11;120(3):215–20

The toxic and accumulative effects of short-term exposure to cadmium in rainbow trout (Oncorhynchus mykiss). Melgar MJ, et al. **Vet Hum Toxicol** 1997 Apr;39(2):79–83

[Blood and hair arsenic, lead and cadmium analysis of adults and correlation analysis with special reference to eating habits and other behavioral influences] Paulsen F, et al. **Gesundheitswesen** 1996 Aug–Sep;58(8–9):459–64 (Eng. Abstr.) **(Ger)**

[Bioavailability of cadmium: effect of vitamin C and phytase in broiler chickens] Rambeck WA, et al. **Tierarztl Prax** 1996 Oct;24(5):467–70 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Inhibition by external Cd2+ of Na/Ca exchange and L-type Ca channel in rabbit ventricular myocytes. Hobai IA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2164–72

Heavy metals inhibit Pi-induced currents through human brush-border NaPi-3 cotransporter in Xenopus oocytes. Wagner CA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F926–30

Effects of cadmium on cellular calcium and proto-oncogene expression. Hechtenberg S, et al. **Ann Clin Lab Sci** 1996 Nov–Dec;26(6):512–21

The effects of in vivo exposure to cadmium, copper and zinc on the activities of gill ATPases in the Norway lobster, Nephrops norvegicus. Canli M, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):494–501

Activation of the metallothionein-I gene promoter in response to cadmium and USF in vitro. Datta PK, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):159–63

Free radical mediated membrane perturbation and inhibition of type-I iodothyronine 5'-monodeiodinase activity by lead and cadmium in rat liver homogenate. Chaurasia SS, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):765–70

Cadmium increases GLUT1 substrate binding affinity in vitro while reducing its cytochalasin B binding affinity. Lachaal M, et al. **Biochemistry** 1996 Nov 26;35(47):14958–62

Functional comparison of the metal-regulated transcriptional control regions of metallothionein genes from cadmium-sensitive and tolerant fish species. Olsson PE, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):325–34

Effect of cadmium on antioxidant status in alloxane-induced diabetic rats. Gümüşlü S, et al. **Biol Trace Elem Res** 1997 May;57(2):105–14

Effect of non-toxic mercury, zinc or cadmium pretreatment on the capacity of human monocytes to undergo lipopolysaccharide-induced activation. Koropatnick J, et al. **Br J Pharmacol** 1997 Mar;120(5):797–806

Production of phytochelatins in the marine diatom Phaeodactylum tricornutum in response to copper and cadmium exposure. Morelli E, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):657–64

Invasive properties of cadmium-resistant human fibrosarcoma HT-1080 cells. Haga A, et al. **Cancer Biochem Biophys** 1997 Jun;15(4):275–84

Agonist-stimulated calcium transients in PC12 cells are affected differentially by cadmium and nickel. Benters J, et al. **Cell Calcium** 1996 Nov;20(5):441–6

Analysis of interaction between cadmium and metallothionein isoforms by capillary zone electrophoresis. Minami T, et al. **Electrophoresis** 1996 Oct;17(10):1602–6

Nitro-L-arginine inteferes with the cadmium reduction of nitrate/griess reaction method of measuring nitric oxide production. Nithipatikom K, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):133–7

Effects of neuroamines and divalent cations on cloned and mutated ATP-gated channels. Nakazawa K, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):101–8

Analysis of metal-regulated metallothionein and heat shock gene expression in HeLa-derived cadmium-resistant cells. Cigliano S, et al. **Exp Cell Res** 1996 Nov 1;228(2):173–80

Isolation of a cDNA coding for an ubiquitin-conjugating enzyme UBC1 of tomato—the first stress-induced UBC of higher plants. Feussner K, et al. **FEBS Lett** 1997 Jun 9;409(2):211–5

Influence of cadmium on resistance to antibiotics in salmonellae isolated from pigs. Huštavová H, et al. **Folia Microbiol (Praha)** 1995;40(3):274–8

Cadmium induced alterations in extrathyroidal conversion of thyroxine to triiodothyronine by type-I iodothyronine 5'-monodeiodinase in male mouse. Gupta P, et al. **Horm Metab Res** 1997 Mar;29(3):151–2

Induction of metallothionein-like cadmium-binding protein in the testis by oral cadmium administration in rats. Ohta H, et al. **Ind Health** 1997;35(1):96–103

Effect of cadmium and captopril on serum angiotensin converting enzyme activity in rats. Puri VN. **Indian Heart J** 1997 May–Jun;49(3):297–9

Effect of verapamil on cadmium induced hypertension in rats. Puri VN. **Indian J Exp Biol** 1996 Dec;34(12):1268–70

Insertional inactivation of dsbA produces sensitivity to cadmium and zinc in Escherichia coli. Rensing C, et al. **J Bacteriol** 1997 Apr;179(8):2769–71

Cadmium induced alterations in somatosensory evoked potentials. Agar A, et al. **J Basic Clin Physiol Pharmacol** 1996;7(2):137–49

Cadmium induced lipid peroxidation in kidney function. Sentürk UK, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul–Dec;5(3–4):305–13

Identification of metallothionein isoforms with capillary zone electrophoresis using a polyacrylamide-coated tube. Minami T, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):353–9

Reactivation of herpes simplex virus from latently infected mice after administration of cadmium is mouse-strain-dependent. Fawl RL, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2781–6

Cd(2+)-induced injury in CNS white matter. Fern R, et al. **J Neurophysiol** 1996 Nov;76(5):3264–73

The effects of lead, cadmium, and mercury on the mortality and infectivity of Schistosoma mansoni cercariae. Abd Allah AT, et al. **J Parasitol** 1996 Dec;82(6):1024–6

Effects of cadmium and nisoldipine on the delayed rectifier potassium current in guinea pig ventricular myocytes. Daleau P, et al. **J Pharmacol Exp Ther** 1997 May; 281(2):826–33

pH-dependent interactions of Cd2+ and a carboxylate blocker with the rat C1C-1 chloride channel and its R304E mutant in the Sf-9 insect cell line. Rychkov GY, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):355–62

Regulation of selenoprotein P mRNA expression in comparison with metallothionein and osteonectin mRNAs following cadmium and dexamethasone administration. Fujii M, et al. **Kobe J Med Sci** 1997 Feb;43(1):13–23

Effect of cadmium on purified hepatic flavokinase: involvement of reactive -SH group(s) in the inactivation of flavokinase by cadmium. Bandyopadhyay D, et al. **Life Sci** 1997;60(21):1891–903

The recA gene and cadmium toxicity in Escherichia coli K12. Shapiro N, et al. **Microbios** 1996;86(346):23–6

Effect of cadmium, mercury and copper on partially purified hepatic flavokinase of rat. Bandyopadhyay D, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):73–80

Alterations in isoforms of glutathione S-transferase in liver and kidney of cadmium exposed rhesus monkeys: purification and kinetic characterization. Sidhu M, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):55–63

Role of determinants of cadmium sensitivity in the tolerance of Schizosaccharomyces pombe to cisplatin. Perego P, et al. **Mol Pharmacol** 1997 Jan;51(1):12–8

Cadmium rapidly and irreversibly blocks presynaptic phospholipase C-linked metabotropic glutamate receptors. Vignes M, et al. **Neurochem Int** 1996 Oct;29(4):371–81

Renal type II Na/Pi-cotransporter is strongly impaired whereas the Na/sulphate-cotransporter and aquaporin 1 are unchanged in cadmium-treated rats. Herak-Kramberger CM, et al. **Pflugers Arch** 1996 Jun;

432(2):336–44
Effect of central acute administration of cadmium on drinking behavior. De Castro E Silva E, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):687–93
Responsiveness of aortic rings of cadmium–hypertensive rats to endothelin–1. Ozdem SS, et al. **Pharmacology** 1997 Jun; 54(6):328–32
The effects of selenium on the antioxidant defense system in the liver of rats exposed to cadmium. Ognjanović B, et al. **Physiol Res** 1995;44(5):293–300
Effects of cadmium on trophoblast calcium transport. Lin FJ, et al. **Placenta** 1997 May;18(4):341–56
Energy charge monitoring via magnetic resonance spectroscopy 31P in the perfused human placenta: effects of cadmium, dinitrophenol and iodoacetate. Malek A, et al. **Placenta** 1996 Sep;17(7):495–506
Expression and RNA splicing of the maize glutathione S–transferase Bronze2 gene is regulated by cadmium and other stresses. Marrs KA, et al. **Plant Physiol** 1997 Jan; 113(1):93–102
Nucleic acid sequence and affiliation of pLUG10, a novel cadmium resistance plasmid from Staphylococcus lugdunensis. Chaouni LB, et al. **Plasmid** 1996 Jul;36(1):1–8
Chronic exposure to cadmium attenuates behavioral sensitization to morphine. Nation JR, et al. **Psychopharmacology (Berl)** 1997 Jun;131(3):248–54
The effect of cadmium on zinc and copper in liver and in metallothionein. Saito S. **Res Commun Mol Pathol Pharmacol** 1996 Dec;94(3):265–70
Cellular alterations in collembolan midgut cells as a marker of heavy metal exposure: ultrastructure and intracellular metal distribution. Pawert M, et al. **Sci Total Environ** 1996 Mar 29;181(3):187–200
Cadmium inhibits DNA strand break rejoining in methyl methanesulfonate–treated CHO–K1 cells. Lynn S, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):171–6
Ultrastructural characterization of the early changes in intercellular junctions in response to cadmium (Cd2+) exposure in LLC–PK1 cells. Niewenhuis RJ, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):1–12
Effects of cadmium on osteoclast formation and activity in vitro. Wilson AK, et al. **Toxicol Appl Pharmacol** 1996 Oct; 140(2):451–60
[The action of organic cadmium complexes of different degrees of hydrophobicity on rat liver mitochondria] Korotkov SM, et al. **Tsitologila** 1996;38(10):1075–83 (Eng. Abstr.) **(Rus)**
[Changes in the effect of Cd2+ on the respiration of isolated rat liver mitochondria after their preincubation with Ca2+, Sr2+, Ba2+, Mn2+ and ruthenium red] Korotkov SM, et al. **Tsitologia** 1996;38(4–5):500–9 (Eng. Abstr.) **(Rus)**
[The effect of Cd2+ on the respiration and swelling of isolated rat liver mitochondria in incubation media of different compositions] Korotkov SM, et al. **Tsitologiia** 1996;38(11):1191–202 (Eng. Abstr.) **(Rus)**
[Oxygen consumption by Rana ridibunda tadpoles in ontogeny in the presence of cadmium and hexachlorane] Toktamysova ES, et al. **Zh Evol Biokhim Fiziol** 1996 Mar–Apr;32(2):147–50 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

A potential role for cadmium in the etiology of varicocele–associated infertility. Benoff S, et al. **Fertil Steril** 1997 Feb;67(2):336–47

POISONING see CADMIUM POISONING

TOXICITY

Interaction of carcinogenic metal compounds with deoxyribonucleic acid repair processes. Hartwig A, et al. **Ann Clin Lab Sci** 1996 Jan–Feb;26(1):31–8
Induction of lipid peroxidation during heavy metal stress in Saccharomyces cerevisiae and influence of plasma membrane fatty acid unsaturation. Howlett NG, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2971–6
Dose–dependent effects of cadmium on the growth of snails in toxicity bioassays. Gomot A. **Arch Environ Contam Toxicol** 1997 Aug;33(2):209–16
State of iron repletion and cadmium tissue accumulation as a function of growth in young rats after oral cadmium exposure. Schümann K, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):483–7
Experimental factors that may affect toxicity of cadmium to freshwater organisms. Suedel BC, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):188–93
Bioaccumulation and metabolic effects of cadmium on marine fouling dressinid bivalve, Mytilopsis sallei (Recluz). Uma Devi V. **Arch Environ Contam Toxicol** 1996 Jul;31(1):47–53
Cadmium affects the activity of rat liver tyrosine aminotransferase and its induction by dexamethasone. Dundjerski J, et al. **Arch Toxicol** 1996;70(6):390–5
Biomarkers of heavy metal reproductive effects and interaction with essential elements in experimental studies on female rats. Piasek M, et al. **Arh Hig Rada Toksikol** 1996 Sep;47(3):245–59
Decreased sensitivity to adriamycin in cadmium–resistant human lung carcinoma A549 cells. Hatcher EL, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):747–54
Soft–tissue accumulation of lead in the blue tilapia, Oreochromis aureus (Steindachner), and the modifying effects of cadmium and mercury. Allen P. **Biol Trace Elem Res** 1995 Dec;50(3):193–208
Protective effects of GSH, vitamin E, and selenium on lipid peroxidation in cadmium–fed rats. Rana SV, et al. **Biol Trace Elem Res** 1996 Feb;51(2):161–8
Zinc protection against cadmium–induced infertility in female rats. Effect of zinc and cadmium on the progesterone production of cultured granulosa cells. Paksy K, et al. **Biometals** 1997 Jan;10(1):27–35
Effects of cadmium on Euglena gracilis membrane lipids. Einicker–Lamas M, et al. **Braz J Med Biol Res** 1996 Aug; 29(8):941–8
Effects of protracted cadmium exposure on gametes of the purple sea urchin, Arbacia punctulata. Bowen WJ 3d, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):493–9
Cadmium embryotoxicity: evidence of a direct effect of cadmium on early rat embryos. Fein A, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):520–4
Effect of cadmium on the bioelement composition of Nostoc UAM208: interaction with calcium. Fernandez–Piñas F, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):543–9
Influence of poultry litter on the toxicity of cadmium to aquatic organisms. Ghosal TK, et al. **Bull Environ Contam Toxicol** 1996 Dec;57(6):1009–15
Cadmium inhibits the in vitro conversion of thyroxine to triiodothyronine in rat brown adipose tissue. Paier B, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):164–70
Rapid toxicity estimation using soil ciliates: sensitivity and bioavailability. Pratt JR, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):387–93
Cadmium and naphthalene–induced hyperglycemia in the fiddler crab, Uca pugilator: differential modes of action on the neuroendocrine system. Reddy PS, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):425–31
Effects of cadmium on growth and motility in Euplotes aediculatus isolated from activated sludge. Salvadó H, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):838–44
Induction of phytochelatins in Hydrilla verticillata (l.f.) royle under cadmium stress. Tripathi RD, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):505–12
Acute toxicity and synergism of cadmium and zinc in white shrimp, Penaeus setiferus, juveniles. Vanegas C, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):87–92
Effect of cadmium on antioxidant enzyme activities and lipid peroxidation in a freshwater field crab, Barytelphusa guerini. Venugopal NB, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):132–8
Cadmium–induced 8–hydroxydeoxyguanosine formation, DNA strand breaks and antioxidant enzyme activities in lymphoblastoid cells. Mikhailova MV, et al. **Cancer Lett** 1997 May 19;115(2):141–8
Induction and repair inhibition of oxidative DNA damage by nickel(II) and cadmium(II) in mammalian cells. Dally H, et al. **Carcinogenesis** 1997 May;18(5):1021–6
The differential effects of cadmium exposure on the growth and survival of primary and established cells from fish and mammals. Lyons–Alcántara M, et al. **Cell Biol Toxicol** 1996 Feb;12(1):29–38
Selenium protection against toxicity from cadmium and mercury studied at the cellular level. Lindh U, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Feb;42(1):39–48
Evidence that nitric oxide enhances cadmium toxicity by displacing the metal from metallothionein. Misra RR, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):326–32
Reactive oxygen species may participate in the mutagenicity and mutational spectrum of cadmium in Chinese hamster ovary–K1 cells. Yang JL, et al. **Chem Res Toxicol** 1996 Dec;9(8):1360–7
Effects of pH on the toxicity of cadmium, copper, lead and zinc to Folsomia candida Willem, 1902 (Collembola) in a standard laboratory test system. Sandifer RD, et al. **Chemosphere** 1996 Dec;33(12):2475–86
Cadmium interaction with essential metals (Zn, Cu, Fe), metabolism metallothionein, and ceruloplasmin in pregnant rats and fetuses. Chmielnicka J, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):277–81
Isolation of a metal–binding protein from ovaries of dab (Limanda limanda L.) distinct from metallothionein: effect of cadmium exposure. Kammann U, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):281–6
Effect of copper and cadmium on three Malaysian tropical estuarine invertebrate larvae. Ramachandran S, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):183–8
Effects of cadmium and mercury on ovarian maturation in the red swamp crayfish, Procambarus clarkii. Reddy PS, et al. **Ecotoxicol Environ Saf** 1997 Jun;37(1):62–5
The influence of soil moisture content on the bioavailability and toxicity of cadmium for Folsomia candida Willem (Collembola: Isotomidae). van Gestel CA, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):123–32
Are the heavy metals cadmium and zinc regulated in freshwater prawns? Vijayram K, et al. **Ecotoxicol Environ Saf** 1996 Jul;34(2):180–3
Cadmium–induced oxidative cellular damage in human fetal lung fibroblasts (MRC–5 cells). Yang CF, et al. **Environ Health Perspect** 1997 Jul;105(7):712–6
Toxicokinetics of cadmium in lactating and nonlactating ewes after oral and intravenous administration. Houpert P, et al. **Environ Res** 1997 Feb;72(2):140–50
Use of factorial designs in combination toxicity studies. Groten JP, et al. **Food Chem Toxicol** 1996 Nov–Dec; 34(11–12):1083–9
Multiple linear regression analysis of blood pressure, hypertrophy, calcium and cadmium in hypertensive and non–hypertensive states. Tomera JF, et al. **Food Chem Toxicol** 1997 Jul;35(7):713–8
Inducibility of metallothionein mRNA expression and cadmium tolerance in larvae of a marine teleost, the turbot (Scophthalmus maximus). George SG, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):91–9
Citrate uptake by isolated rat renal brush border membrane vesicles in cadmium–intoxicated rats. Sato K, et al. **Ind Health** 1997 Jul;35(3):388–93
Effect of angiotensin II on the reactivity of isolated mesenteric vessels to norepinephrine in rats poisoned with cadmium. Skoczyńska A. **Int J Occup Med Environ Health** 1997;10(1):67–77
Sertoli cells in culture and mRNA differential display provide a sensitive early warning assay system to detect changes induced by xenobiotics. Syed V, et al. **J Androl** 1997 May–Jun;18(3):264–73
Ontogenic profile of brain lipids following perinatal exposure to cadmium. Gupta A, et al. **J Appl Toxicol** 1996 May–Jun; 16(3):227–33
Cadmium–sensitive targets in the aerobic respiratory metabolism of Staphylococcus aureus. Tynecka Z, et al. **J Basic Microbiol** 1996;36(6):447–52
Evidence suggesting that cadmium induces a non–thyroidal illness syndrome in the rat. Pavia Júnior MA, et al. **J Endocrinol** 1997 Jul;154(1):113–7
Comparative effects of disulfiram and diethyldithiocarbamate against testicular toxicity in rats caused by acute exposure to cadmium. Ono H, et al. **J Toxicol Environ Health** 1997 Mar;50(4):389–99
Relationship between glutathione and DL alpha–lipoic acid against cadmium–induced hepatotoxicity. Sumathi R, et al. **Jpn J Med Sci Biol** 1996 Apr;49(2):39–48
Further observations on the etiology of pre–eclampsia: mobilization of toxic cadmium–metallothionein into the serum during pregnancy. Chisolm JC, et al. **Med Hypotheses** 1996 Aug;47(2):123–8 (93 ref.)
Effect of heavy metals on soil denitrification and CO2 production after short term incubation. Probanza A, et al. **Microbiologia** 1996 Sep;12(3):417–24
Transgenic mouse blastocysts that overexpress metallothionein–I resist cadmium toxicity in vitro. Lee DK, et al. **Mol Reprod Dev** 1996 Feb;43(2):158–66
Cadmium is an inducer of oxidative stress in yeast. Brennan RJ, et al. **Mutat Res** 1996 Sep 23;356(2):171–8
Low–level cadmium exposure of lactating rats causes alterations in brain serotonin levels in the offspring. Andersson H, et al. **Neurotoxicol Teratol** 1997 Mar–Apr; 19(2):105–15
The effect of developmental exposure to cadmium (Cd) on visual evoked potentials (VEPs) and lipid peroxidation. Yargiçoğlu P, et al. **Neurotoxicol Teratol** 1997 May–Jun; 19(3):213–9
Cadmium–metallothionein nephrotoxicity is increased in genetically diabetic as compared with normal Chinese hamsters. Jin T, et al. **Pharmacol Toxicol** 1996 Sep; 79(3):105–8
Aluminium accumulation in some tissues of rats with compromised kidney function induced by cadmium–metallothionein. Liu J, et al. **Pharmacol Toxicol** 1996 May;78(5):289–95
The activities of superoxide dismutase, catalase and ascorbic acid content in the liver of goldfish (Carassius auratus gibelio Bloch.) exposed to cadmium. Zikič RV, et al. **Physiol Res** 1996;45(6):479–81
On the oral carcinogenicity of cadmium. Collins JF, et al. **Regul Toxicol Pharmacol** 1996 Jun;23(3):298–9 (7 ref.)
Cadmium, gene regulation, and cellular signalling in mammalian cells. Beyersmann D, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):247–61 (137 ref.)
Effect of dietary cadmium on iron metabolism in growing rats. Crowe A, et al. **Toxicol Appl Pharmacol** 1997 Jul; 145(1):136–46
Iron deposition at mineralization fronts and osteoid formation following chronic cadmium exposure in ovariectomized rats. Hiratsuka H, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):348–56
The effect of cadmium on cytosolic free calcium, protein kinase C, and collagen synthesis in rat osteosarcoma (ROS 17/2.8) cells. Long GJ. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):189–95
Effect of cadmium on Na–Pi cotransport kinetics in rabbit renal brush–border membrane vesicles. Park K, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):255–9
Toxicity of cadmium in human trophoblast cells (JAr choriocarcinoma): role of calmodulin and the calmodulin inhibitor, zaldaride maleate. Powlin SS, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):225–34
Cadmium–induced metallothionein expression during embryonic and early larval development of the mollusc Crassostrea virginica. Roesijadi G, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):356–63
Induction of hsp 70 in HepG2 cells in response to hepatotoxicants. Salminen WF Jr, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):117–23
The effects of continuous testosterone exposure on spontaneous and cadmium–induced tumors in the male Fischer (F344/NCr) rat: loss of testicular response. Waalkes MP, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):40–6
Effects of cadmium on bone: an in vivo model for the early response. Wilson AK, et al. **Toxicol Appl Pharmacol** 1997

Jul;145(1):68–73

Effects of cadmium on electrolyte ions in cultured rat hepatocytes studied by X-ray microanalysis of cryosections. Zierold K. **Toxicol Appl Pharmacol** 1997 May; 144(1):70–6

Designing an artificial ecological mesocosm for the study of Cd and Pb impact on the immune system of experimental animals. Baykov B, et al. **Toxicol Lett** 1996 Dec;89(1):5–10

Selenium and cadmium induced pulmonary functional impairment and cytotoxicity. Bell RR, et al. **Toxicol Lett** 1997 Feb 7;90(2–3):107–14

Sensitive response of cultured vascular smooth-muscle cells to cadmium cytotoxicity: comparison with cultured vascular endothelial cells and kidney epithelial LLC-PK1 cells. Kaji T, et al. **Toxicol Lett** 1996 Dec 16;89(2):131–7

Oxidative stress-mediated neurotoxicity of cadmium. Kumar R, et al. **Toxicol Lett** 1996 Dec;89(1):65–9

Cadmium perturbs calcium homeostasis in rat osteosarcoma (ROS 17/2.8) cells; a possible role for protein kinase C. Long GJ. **Toxicol Lett** 1997 Apr 28;91(2):91–7

Hepatocytes from metallothionein-I and II knock-out mice are sensitive to cadmium- and tert-butylhydroperoxide-induced cytotoxicity. Zheng H, et al. **Toxicol Lett** 1996 Oct;87(2–3):139–45

Effects of dithiocarbamates on toxicity of cadmium in rat primary hepatocyte cultures. Funakoshi T, et al. **Toxicology** 1997 Jan 15;116(1–3):99–107

Pulmonary metallothionein expression in rats following single and repeated exposure to cadmium aerosols. Hart BA, et al. **Toxicology** 1996 Sep 2;112(3):205–18

Cadmium-induced production of superoxide anion and nitric oxide, DNA single strand breaks and lactate dehydrogenase leakage in J774A.1 cell cultures. Hassoun EA, et al. **Toxicology** 1996 Sep 2;112(3):219–26

Sequence of exposure to cadmium and arsenic determines the extent of toxic effects in male Fischer rats. Hochadel JF, et al. **Toxicology** 1997 Jan 15;116(1–3):89–98

Selenite suppression of cadmium-induced testicular apoptosis. Jones MM, et al. **Toxicology** 1997 Jan 15; 116(1–3):169–75

Mechanism of cadmium-induced cytotoxicity in rat hepatocytes: cadmium-induced active oxygen-related permeability changes of the plasma membrane. Koizumi T, et al. **Toxicology** 1996 Dec 2;114(2):125–34

Cadmium suppresses delta 9 desaturase activity in rat hepatocytes. Kudo N, et al. **Toxicology** 1996 Dec 2; 114(2):101–11

Tolerance to cadmium cytotoxicity is induced by zinc through non-metallothionein mechanisms as well as metallothionein induction in cultured cells. Mishima A, et al. **Toxicology** 1997 Mar 28;118(2–3):85–92

Testosterone pretreatment mitigates cadmium toxicity in male C57 mice but not in C3H mice. Shimada H, et al. **Toxicology** 1997 Jan 15;116(1–3):183–91

Enhancement of the stress response by minute amounts of cadmium in sensitized Reuber H35 hepatoma cells. Wiegant FA, et al. **Toxicology** 1997 Jan 15;116(1–3):27–37

[Toxicity of cadmium and its mechanism on renal tubular epithelial cells in vitro] Jiang T, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 Mar;30(2):84–7 (Eng. Abstr.) **(Chi)**

[The favorable effect of humic acid based complex micro-element preparations in cadmium exposure] Hudák A, et al. **Orv Hetil** 1997 Jun 1;138(22):1411–6 (41 ref.) (Eng. Abstr.) **(Hun)**

[Toxicologic effects of cadmium on gametes and embryonal kinetics of paracentrotus lividus] Arru G, et al. **G Ital Med Lav** 1995 Jan–Nov;17(1–6):61–4 (Eng. Abstr.) **(Ita)**

[Testing lipid metabolism in aortic walls of rats subjected to year-long cadmium intoxication] Janik A, et al. **Folia Med Cracov** 1995;36(1–4):47–52 (Eng. Abstr.) **(Pol)**

[Lipid peroxidation as a toxic mode of action for lead and cadmium] Skoczyńska A. **Med Pr** 1997;48(2):197–203 (55 ref.) (Eng. Abstr.) **(Pol)**

[Effects of cadmium acetate and ionizing radiation on rat alveolar macrophages] Shopova VL, et al. **Gig Sanit** 1997 Jan–Feb;(1):37–9 **(Rus)**

URINE

Dose-response relations between urinary cadmium and tubular proteinuria in adult workers [comment] [see comments] Bernard AM, et al. **Am J Ind Med** 1997 Jan; 31(1):116–8. Comment on: Am J Ind Med 1994 Dec;26(6):759–69. Comment in: Am J Ind Med 1997 Jan;31(1):119–20.

Re: Commentary on "dose-response relations between urinary cadmium and tubular proteinuria in adult workers" [letter; comment] Järup L, et al. **Am J Ind Med** 1997 Jan; 31(1):119–20. Comment on: Am J Ind Med 1997 Jan;31(1):116–8.

Reversibility of microproteinuria in cadmium workers with incipient tubular dysfunction after reduction of exposure. Roels HA, et al. **Am J Ind Med** 1997 May;31(5):645–52

Effects of cadmium and lead exposure on urinary N-acetyl-beta-D-glucosaminidase, beta 2-microglobulin and metallothionein of workers. Kawada T, et al. **Asia Pac J Public Health** 1995;8(2):91–4

Urinary cadmium levels during pregnancy and postpartum. A longitudinal study. Hernandez M, et al. **Biol Trace Elem Res** 1996 Summer;53(1–3):205–12

Urinary neutral endopeptidase in workers exposed to cadmium: interaction with cigarette smoking. Nortier J, et al. **Occup Environ Med** 1997 Jun;54(6):432–6

Biological monitoring of cadmium exposure and renal effects in a population group residing in a polluted area in China. Nordberg GF, et al. **Sci Total Environ** 1997 Jun 20; 199(1–2):111–4

Reproducibility of urinary beta 2-microglobulin and cadmium excretion among residents in a cadmium-polluted area during a 3-year period. Arisawa K, et al. **Toxicol Lett** 1997 Apr 28;91(2):147–52

[The analysis of cadmium and lead levels in the umbilical blood and first urine in newborn infants] Laskowska-Klita T, et al. **Pediatr Pol** 1996 Feb;71(2):103–9 (Eng. Abstr.) **(Pol)**

[Measurement of lead and cadmium in urine and blood by the inversion volta amperometry using SVA-IBM analyzer] Pavlovskaia NA, et al. **Med Tr Prom Ekol** 1996; (11):28–31 (Eng. Abstr.) **(Rus)**

CADMIUM CHLORIDE

ADMINISTRATION & DOSAGE

Induction of oxidative stress by chronic administration of sodium dichromate [chromium VI] and cadmium chloride [cadmium II] to rats. Bagchi D, et al. **Free Radic Biol Med** 1997;22(3):471–8

ANTAGONISTS & INHIBITORS

Effect of a lignan-enriched extract of Schisandra chinensis on aflatoxin B1 and cadmium chloride-induced hepatotoxicity in rats. Ip SP, et al. **Pharmacol Toxicol** 1996 Jun;78(6):413–6

CHEMISTRY

Actin assembly by cadmium ions. DalleDonne I, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):5–17

DIAGNOSTIC USE

Patch testing with cadmium chloride. Geier J, et al. **Contact Dermatitis** 1996 Jan;34(1):73–4

METABOLISM

Uptake of Cd-metallothionein into LLC-PK1 cells: a comparative study with CdCl2. Kimura O, et al. **Biol Pharm Bull** 1997 Feb;20(2):158–62

Formation of organic cadmium by marine microorganisms. Yannai S, et al. **Ecotoxicol Environ Saf** 1995 Dec; 32(3):209–14

Analysis of the effects of overexpression of metallothionein-I in transgenic mice on the reproductive toxicology of cadmium. Dalton T, et al. **Environ Health Perspect** 1996 Jan;104(1):68–76

Combined treatment with a new biscarbodithioate C9G2DTC and BGDTC for mobilizing cadmium deposits in rats. Kostial K, et al. **J Appl Toxicol** 1996 Mar–Apr; 16(2):157–8

Uptake of manganese and cadmium from the nasal mucosa into the central nervous system via olfactory pathways in rats. Tjälve H, et al. **Pharmacol Toxicol** 1996 Dec; 79(6):347–56

PHARMACOKINETICS

Bioavailability of soil-adsorbed cadmium in orally exposed male rats. Schilderman PA, et al. **Environ Health Perspect** 1997 Feb;105(2):234–8

Small-intestinal absorption of cadmium and the significance of mucosal metallothionein. Elsenhans B, et al. **Hum Exp Toxicol** 1997 Aug;16(8):429–34 (28 ref.)

Binding of Cd to metallothionein in the placenta of Cd-treated mouse. Itoh N, et al. **J Toxicol Sci** 1996 Feb; 21(1):19–27

Toxicokinetics and disposition of inorganic mercury and cadmium in channel catfish after intravascular administration. Schultz IR, et al. **Toxicol Appl Pharmacol** 1996 Sep;140(1):39–50

PHARMACOLOGY

Metallothionein induction protects swollen rat primary astrocyte cultures from methylmercury-induced inhibition of regulatory volume decrease. Vitarella D, et al. **Brain Res** 1996 Nov 4;738(2):213–21

The effect of environmental aneuploidy-inducing agents on the microtubule architecture of mitotic meristematic root cells in Hordeum vulgare. Voutsinas G, et al. **Cell Biol Int** 1997 Jul;21(7):411–8

The influence of blood pressure on intracellular Ca2+ content in erythrocytes: effects of cadmium chloride and nifedipine. Erkiliç AB, et al. **Clin Exp Hypertens** 1996 Jan; 18(1):77–86

Comparison of the inhibitory effects of mercury and cadmium on the creatine kinase from Electrophorus electricus (L). Araujo GM, et al. **Int J Biochem Cell Biol** 1996 Apr; 28(4):491–7

Unusual resistance and acquired tolerance to cadmium chloride in Enterococcus faecalis. Laplace JM, et al. **J Basic Microbiol** 1996;36(5):311–7

Heat-shock and cadmium chloride increase the vimentin mRNA and protein levels in U-937 human promonocytic cells. Vilaboa NE, et al. **J Cell Sci** 1997 Jan;110 (Pt 2):201–7

Cadmium-induced lipid peroxidation and the antioxidant system in rat erythrocytes: the role of antioxidants. Sarkar S, et al. **J Trace Elem Med Biol** 1997 Apr;11(1):8–13

Dermal toxicity and percutaneous absorption of cadmium in rats and mice. Lansdown AB, et al. **Lab Anim Sci** 1996 Oct;46(5):549–54

Effects of cadmium, copper, and zinc and beta APP processing and turnover in COS-7 and PC12 cells. Relationship to Alzheimer disease pathology. Smedman M, et al. **Mol Chem Neuropathol** 1997 May;31(1):13–28

Subacute exposure to cadmium chloride induces HSP-72 in rat liver. Curtis SL, et al. **Res Commun Mol Pathol Pharmacol** 1996 Nov;94(2):221–4

[The diverse effects of the combined action of cadmium chloride and ionizing radiation on the content of metallothioneins in mouse bone marrow and liver] Koterov AN, et al. **Radiats Biol Radioecol** 1997 Mar–Apr; 37(2):196–201 (Eng. Abstr.) **(Rus)**

TOXICITY

Effect of cadmium on female fertility, pregnancy and postnatal development in the rat. Paksy K, et al. **Acta Physiol Hung** 1996;84(2):119–30

Long-term cadmium exposure induces anemia in rats through hypoinduction of erythropoietin in the kidneys. Horiguchi H, et al. **Arch Toxicol** 1996;71(1–2):11–9

Biphasic effect of cadmium ions on the secretion of leukotriene B4 in rabbit alveolar macrophages. Kudo N, et al. **Arch Toxicol** 1996;70(12):801–8

Low levels of cadmium chloride damage the corneal endothelium. Weidner WJ, et al. **Arch Toxicol** 1997; 71(7):455–60

Oxidative stress-induced cadmium resistance in Chinese hamster V79 cells. Sengupta S, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):267–71

DNA-protein cross-links in leukocytes of mice induced by Zn, Cd, and Pb. Osipov AN, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):681–3

Calcium-cadmium interaction on sugar absorption across the rabbit jejunum. Mesonero JE, et al. **Biol Trace Elem Res** 1996 Feb;51(2):149–59

The influence of aging on renal response to cadmium in Syrian hamsters. Shibasaki T, et al. **Biol Trace Elem Res** 1996 Jul;54(1):87–95

Effects of a hepato-protective agent and a hepato-secreting chelator on cadmium-induced nephrotoxicity in Syrian hamsters. Shibasaki T, et al. **Biol Trace Elem Res** 1996 Apr; 52(1):1–9

Potentiation by cadmium ion of ATP-evoked dopamine release in rat phaeochromocytoma cells. Ikeda M, et al. **Br J Pharmacol** 1996 Mar;117(5):950–4

Role of testosterone in ameliorating the cadmium induced inhibition of thyroid function in adult male mouse. Gupta P, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):422–8

Effect of cadmium chloride on the distal retinal pigment cells of the fiddler crab, Uca pugilator. Reddy PS, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):504–10

Cadmium-induced changes in the histology of kidneys in common carp, Cyprinus carpio (Cyprinidae). Singhal RN, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):456–62

Effect of cadmium and selenium on the antioxidant defense system in rat kidneys. Stajn A, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):167–72

Determination of cadmium-metallothioneins in zebra mussels exposed to subchronic concentrations of Cd2+. Tessier C, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):246–52

Analysis of the effects of overexpression of metallothionein-I in transgenic mice on the reproductive toxicology of cadmium. Dalton T, et al. **Environ Health Perspect** 1996 Jan;104(1):68–76

Effect of cadmium injury on growth and migration of cultured human vascular endothelial cells. Kishimoto T, et al. **Hum Cell** 1996 Mar;9(1):43–8

Cadmium injures tube formation by cultured human vascular endothelial cells. Kishimoto T, et al. **Hum Cell** 1996 Sep; 9(3):244–50

Cadmium-induced alterations in blood-brain barrier permeability and its possible correlation with decreased microvessel antioxidant potential in rat. Shukla A, et al. **Hum Exp Toxicol** 1996 May;15(5):400–5

Effect of selenium supplementation on the glutathione redox system in the kidney of mice after chronic cadmium exposures. Nehru LB, et al. **J Appl Toxicol** 1997 Jan–Feb; 17(1):81–4

Effects of glutathione depletion on cadmium-induced metallothionein synthesis, cytotoxicity, and proto-oncogene expression in cultured rat myoblasts. Shimizu M, et al. **J Toxicol Environ Health** 1997 Aug 29; 51(6):609–21

Cadmium-induced apoptosis in the urogenital organs of the male rat and its suppression by chelation. Yan H, et al. **J Toxicol Environ Health** 1997 Oct 10;52(2):149–68

Cytotoxicity, zinc protection, and stress protein induction in rat proximal tubule cells exposed to cadmium chloride in primary cell culture. Liu J, et al. **Ren Fail** 1996 Nov; 18(6):867–82

Progesterone pretreatment enhances cellular sensitivity to cadmium despite a marked activation of the metallothionein gene. Shimada H, et al. **Toxicol Appl Pharmacol** 1997 Jan; 142(1):178–85

Expression of the 25-kDa heat-shock protein (HSP27) correlates with resistance to the toxicity of cadmium chloride, mercuric chloride, cis-platinum(II)-diammine dichloride, or sodium arsenite in mouse embryonic stem cells transfected with sense or antisense HSP27 cDNA. Wu W, et al. **Toxicol Appl Pharmacol** 1996 Nov; 141(1):330-9

Effects of magnetic field exposure on the development of lung fibrosis elicited by industrial pollutants. Hurych J, et al. **Toxicol Lett** 1996 Nov;88(1-3):305-11

Brain and plasma levels of cocaine and benzoylecgonine in lead-expose and cadmium-exposed rats following acute or chronic intraperitoneal administration of cocaine. Nation JR, et al. **Toxicol Lett** 1997 Jun 16;92(1):47-57

Effect of thiols on cadmium-induced expression of metallothionein and other oxidant stress genes in rat lung epithelial cells. Gong Q, et al. **Toxicology** 1997 May 16; 119(3):179-91

Lack of correlation between the inducibility of metallothionein mRNA and metallothionein protein in cadmium-exposed rodents. Misra RR, et al. **Toxicology** 1997 Feb 28;117(2-3):99-109

Suppression of Kupffer cell function prevents cadmium induced hepatocellular necrosis in the male Sprague-Dawley rat. Sauer JM, et al. **Toxicology** 1997 Aug 15;121(2):155-64

Hepatic levels of cadmium, zinc and copper in multiparous, nulliparous and ovariectomized mice fed either a nutrient-sufficient or -deficient diet containing cadmium. Whelton BD, et al. **Toxicology** 1997 Apr 30;119(2):141-53

Skeletal changes in multiparous, nulliparous and ovariectomized mice fed either a nutrient-sufficient or -deficient diet containing cadmium. Whelton BD, et al. **Toxicology** 1997 Apr 30;119(2):103-21

Kidney changes in multiparous, nulliparous and ovariectomized mice fed either a nutrient-sufficient or -deficient diet containing cadmium. Whelton BD, et al. **Toxicology** 1997 Apr 30;119(2):123-40

[Reproductive toxicological fundamental investigations on adult male rats of the WIST/Lppt stock on the determination of swelling after administration of cadmium chloride] Richter M, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 May;104(5):176-8 (Eng. Abstr.) **(Ger)**

[Development of the adaptive response in human cells exposed to cadmium chloride] Meliksetova IA, et al. **Dokl Akad Nauk** 1997 Jun;354(4):573-4 **(Rus)**

[Genotoxic effect of cadmium chloride in various test-systems] Pesheva MG, et al. **Genetika** 1997 Feb; 33(2):183-8 (Eng. Abstr.) **(Rus)**

[The genotoxic effects of cadmium studied in vivo] Privezentsev KV, et al. **Tsitol Genet** 1996 May-Jun; 30(3):45-51 (Eng. Abstr.) **(Rus)**

[The effect of cadmium on the wakefulness-sleep cycle in rats in early postnatal ontogeny] Aristakesian EA, et al. **Zh Evol Biokhim Fiziol** 1996 Jul-Aug;32(4):402-8 (Eng. Abstr.) **(Rus)**

CADMIUM COMPOUNDS

Evaluating x-ray detectors for radiographic applications: a comparison of ZnSCdS:Ag with Gd2O2S:Tb and Y2O2S:Tb screens. Kandarakis I, et al. **Phys Med Biol** 1997 Jul;42(7):1351-73

ADVERSE EFFECTS

Blood mercury in workers exposed to the preparation of mercury cadmium telluride layers on cadmium telluride base. Gupta M, et al. **Ind Health** 1996;34(4):421-5

Lung cancer mortality in a cohort of workers employed at a cadmium recovery plant in the United States: an analysis with detailed job histories. Sorahan T, et al. **Occup Environ Med** 1997 Mar;54(3):194-201

[The organization of primary prevention in the prophylaxis of lesions of the hard dental tissues in persons having occupational contact with cadmium salts] Garazha NN, et al. **Stomatologiia (Mosk)** 1996;Spec No:17-8 **(Rus)**

CHEMISTRY

Characterization of two forms of cadmium phosphide by magic-angle spinning 31P NMR. Holl SM, et al. **Solid State Nucl Magn Reson** 1996 Feb;6(1):39-46

Determination of 113Cd shielding tensor components in cadmium-phosphine complexes from 31P-decoupled 113Cd cross-polarisation/magic angle spinning spectra. Klaus E, et al. **Solid State Nucl Magn Reson** 1996 Jun; 6(3):225-30

[Precipitation of cytochromes c with complex cadmium iodide] Zhuravleva DV, et al. **Bioorg Khim** 1996 Oct-Nov; 22(10-11):870-4 (Eng. Abstr.) **(Rus)**

METABOLISM

Restriction of cadmium transfer to eggs from laying hens exposed to cadmium. Sato S, et al. **J Toxicol Environ Health** 1997 May;51(1):15-22

Cadmium-specific formation of metal sulfide 'Q-particles' by Klebsiella pneumoniae. Holmes JD, et al. **Microbiology** 1997 Aug;143 (Pt 8):2521-30

PHARMACOLOGY

Biochemical responses of the marine macroalgae Ulva lactuca and Fucus vesiculosus to cadmium and copper-from sequestration to oxidative stress. Jervis L, et al. **Biochem Soc Trans** 1997 Feb;25(1):63S

Persistence of cadmium-induced adaptive response to genotoxicity of maleic hydrazide and methyl mercuric chloride in root meristem cells of Allium cepa L.: differential inhibition by cycloheximide and buthionine sulfoximine. Panda KK, et al. **Mutat Res** 1997 Mar 17; 389(2-3):129-39

TOXICITY

Acute pulmonary toxicity of copper gallium diselenide, copper indium diselenide, and cadmium telluride intratracheally instilled into rats. Morgan DL, et al. **Environ Res** 1995 Oct;71(1):16-24

Pulmonary toxicity of cadmium in rats: a histologic and ultrasound study. Fariña J, et al. **Gen Diagn Pathol** 1996 May;141(5-6):365-9

CADMIUM POISONING

BLOOD

Critical evaluation and review of cadmium concentrations in blood for use in occupational health according to the TRACY protocol. Herber RF, et al. **Int Arch Occup Environ Health** 1997;69(6):372-8 (26 ref.)

COMPLICATIONS

Blood cadmium as an indicator of dose in a long-term follow-up of workers previously exposed to cadmium. Järup L, et al. **Scand J Work Environ Health** 1997 Feb; 23(1):31-6

DIAGNOSIS

Effect of oral protein load on urinary protein excretion in workers exposed to cadmium and to lead. Hotz P, et al. **Am J Ind Med** 1996 Feb;29(2):195-200

[Ecologic significance and hygienic regulation of lead and cadmium in various media (literature review)] Egorov IuL, et al. **Med Tr Prom Ekol** 1996;(10):18-25 (55 ref.) **(Rus)**

DRUG THERAPY

Ultrastructural studies on organs of cadmium-poisoned rats treated with oxygen-ozone mixture. Kuryszko J, et al. **Arch Vet Pol** 1995;35(1-2):109-15

Effects of a hepato-protective agent and a hepato-secreting chelator on cadmium-induced nephrotoxicity in Syrian hamsters. Shibasaki T, et al. **Biol Trace Elem Res** 1996 Apr; 52(1):1-9

EPIDEMIOLOGY

[What is the current age and sex-related cadmium burden of the human kidney cortex?] Mai S, et al. **Gesundheitswesen** 1997 May;59(5):332-7 (Eng. Abstr.) **(Ger)**

[Blood and hair arsenic, lead and cadmium analysis of adults and correlation analysis with special reference to eating habits and other behavioral influences] Paulsen F, et al. **Gesundheitswesen** 1996 Aug-Sep;58(8-9):459-64 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Cadmium poisoning in a crematorium worker. Nicholson G, et al. **Anaesth Intensive Care** 1997 Apr;25(2):163-5

The integrity of the liver among people environmentally exposed to cadmium at various levels. Ikeda M, et al. **Int Arch Occup Environ Health** 1997;69(6):379-85

Iron deposition at mineralization fronts and osteoid formation following chronic cadmium exposure in ovariectomized rats. Hiratsuka H, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):348-56

Breast-feeding exposure of infants to cadmium, lead, and mercury: a public health viewpoint. Abadin HG, et al. **Toxicol Ind Health** 1997 Jul-Aug;13(4):495-517

Kidney changes in multiparous, nulliparous and ovariectomized mice fed either a nutrient-sufficient or -deficient diet containing cadmium. Whelton BD, et al. **Toxicology** 1997 Apr 30;119(2):123-40

Skeletal changes in multiparous, nulliparous and ovariectomized mice fed either a nutrient-sufficient or -deficient diet containing cadmium. Whelton BD, et al. **Toxicology** 1997 Apr 30;119(2):103-21

Hepatic levels of cadmium, zinc and copper in multiparous, nulliparous and ovariectomized mice fed either a nutrient-sufficient or -deficient diet containing cadmium. Whelton BD, et al. **Toxicology** 1997 Apr 30;119(2):141-53

METABOLISM

Evaluation of selected parameters of a metabolic profile and levels of cadmium in reproductive organs of rabbits after an experimental administration. Massanyi P, et al. **Acta Physiol Hung** 1995;83(3):267-73

Role of metallothionein in cadmium-induced hepatotoxicity and nephrotoxicity. Klaassen CD, et al. **Drug Metab Rev** 1997 Feb-May;29(1-2):79-102 (66 ref.)

The integrity of the liver among people environmentally exposed to cadmium at various levels. Ikeda M, et al. **Int Arch Occup Environ Health** 1997;69(6):379-85

MORTALITY

Mortality rate among Cadmium (Cd)-exposed inhabitants was significantly higher than the entire Japanese population [letter] Saito H, et al. **Arch Environ Health** 1996 Nov-Dec; 51(6):471-3

PATHOLOGY

Histomorphometric study of ribs with looser zones in Itai-itai disease. Yamashita H, et al. **Calcif Tissue Int** 1996 Mar; 58(3):170-6

Cadmium-induced dental lesions in ovariectomized rats. Katsuta O, et al. **Toxicol Pathol** 1996 Jul-Aug;24(4):451-7

PREVENTION & CONTROL

Follow-up of biologic monitoring results in cadmium workers removed from exposure. McDiarmid MA, et al. **Am J Ind Med** 1997 Sep;32(3):261-7

Testosterone pretreatment mitigates cadmium toxicity in male C57 mice but not in C3H mice. Shimada H, et al. **Toxicology** 1997 Jan 15;116(1-3):183-91

VETERINARY

A probabilistic model for deriving soil quality criteria based on secondary poisoning of top predators. II. Calculations for dichlorodiphenyltrichloroethane (DDT) and cadmium. Jongbloed RH, et al. **Ecotoxicol Environ Saf** 1996 Aug; 34(3):279-306

CADMIUM RADIOISOTOPES

METABOLISM

Loss of the metal binding properties of metallothionein induced by hydrogen peroxide and free radicals. Jiménez I, et al. **Toxicology** 1997 Jun 6;120(1):37-46

CADUCEUS see **EMBLEMS AND INSIGNIA**

CAENORHABDITIS

EMBRYOLOGY

Two nested gonadal inductions of the vulva in nematodes. Félix MA, et al. **Development** 1997 Jan;124(1):253-9

ENZYMOLOGY

Sequence comparison of ACE-1, the gene encoding acetylcholinesterase of class A, in the two nematodes Caenorhabditis elegans and Caenorhabditis briggsae. Grauso M, et al. **DNA Seq** 1996;6(4):217-27

GENETICS

Sequence comparison of ACE-1, the gene encoding acetylcholinesterase of class A, in the two nematodes Caenorhabditis elegans and Caenorhabditis briggsae. Grauso M, et al. **DNA Seq** 1996;6(4):217-27

Conservation of the Caenorhabditis elegans cuticle collagen gene col-12 in Caenorhabditis briggsae. Gilleard JS, et al. **Gene** 1997 Jul 9;193(2):181-6

Conservation of function and expression of unc-119 from two Caenorhabditis species despite divergence of non-coding DNA. Maduro M, et al. **Gene** 1996 Dec 12; 183(1-2):77-85

Evolution of sex determination in caenorhabditis: unusually high divergence of tra-1 and its functional consequences. de Bono M, et al. **Genetics** 1996 Oct;144(2):587-95

Caenorhabditis globin genes: rapid intronic divergence contrasts with conservation of silent exonic sites. Kloek AP, et al. **J Mol Evol** 1996 Aug;43(2):101-8

Cloning of Caenorhabditis U2AF65: an alternatively spliced RNA containing a novel exon. Zorio DA, et al. **Mol Cell Biol** 1997 Feb;17(2):946-53

Operons and SL2 trans-splicing exist in nematodes outside the genus Caenorhabditis. Evans D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9751-6

PHYSIOLOGY

Increased competitiveness of nematode sperm bearing the male X chromosome. LaMunyon CW, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):185-9

CAENORHABDITIS ELEGANS

N-Myristoylation of the catalytic subunit of cAMP-dependent protein kinase in the free-living nematode Caenorhabditis elegans. Aspbury RA, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):523-7

CHEMISTRY

APEASPFIRFamide, a novel FMRFamide-related decapeptide from Caenorhabditis elegans: structure and myoactivity. Marks NJ, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):591-5

Two-dimensional gel electrophoresis of Caenorhabditis elegans homogenates and identification of protein spots by microsequencing. Bini L, et al. **Electrophoresis** 1997

Mar-Apr;18(3-4):557-62
Direct physical interaction between the Caenorhabditis elegans 'death proteins' CED-3 and CED-4. Irmler M, et al. **FEBS Lett** 1997 Apr 7;406(1-2):189-90
Isolation and structural analysis of three neutral glycosphingolipids from a mixed population of Caenorhabditis elegans (Nematoda:Rhabditida). Gerdt S, et al. **Glycobiology** 1997 Mar;7(2):265-75 *
Unique structural features of a novel class of small heat shock proteins. Leroux MR, et al. **J Biol Chem** 1997 May 9; 272(19):12847-53
Lophotoxin-insensitive nematode nicotinic acetylcholine receptors. Tornøe C, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2161-8
Structure and stability of an immunoglobulin superfamily domain from twitchin, a muscle protein of the nematode Caenorhabditis elegans. Fong S, et al. **J Mol Biol** 1996 Dec 6;264(3):624-39
Vertebrate homologues of C. elegans UNC-5 are candidate netrin receptors. Leonardo ED, et al. **Nature** 1997 Apr 24;386(6627):833-8

CYTOLOGY

Evolution of cell lineage. Sternberg PW, et al. **Curr Opin Genet Dev** 1997 Aug;7(4):543-50 (43 ref.)
Soma-germ cell interactions in Caenorhabditis elegans: multiple events of hermaphrodite germline development require the somatic sheath and spermathecal lineages. McCarter J, et al. **Dev Biol** 1997 Jan 15;181(2):121-43
The Caenorhabditis elegans LIN-26 protein is required to specify and/or maintain all non-neuronal ectodermal cell fates. Labouesse M, et al. **Development** 1996 Sep; 122(9):2579-88
Neuropathology of degenerative cell death in Caenorhabditis elegans. Hall DH, et al. **J Neurosci** 1997 Feb 1; 17(3):1033-45
Ras is required for a limited number of cell fates and not for general proliferation in Caenorhabditis elegans. Yochem J, et al. **Mol Cell Biol** 1997 May;17(5):2716-22
Interaction of CED-4 with CED-3 and CED-9: a molecular framework for cell death [see comments] Chinnaiyan AM, et al. **Science** 1997 Feb 21;275(5303):1122-6. Comment in: Science 1997 Feb 21;275(5303):1081-2.
Interaction and regulation of subcellular localization of CED-4 by CED-9 [see comments] Wu D, et al. **Science** 1997 Feb 21;275(5303):1126-9. Comment in: Science 1997 Feb 21;275(5303):1081-2.
Cell death in vertebrates: lessons from the worm. Osborne BA. **Trends Genet** 1996 Dec;12(12):489-91

DRUG EFFECTS

Behavioral effects of volatile anesthetics in Caenorhabditis elegans. Crowder CM, et al. **Anesthesiology** 1996 Oct; 85(4):901-12
Tolerance of the nematode Caenorhabditis elegans to pH, salinity, and hardness in aquatic media. Khanna N, et al. **Arch Environ Contam Toxicol** 1997 Jan;32(1):110-4
An abnormal ketamine response in mutants defective in the ryanodine receptor gene ryr-1 (unc-68) of Caenorhabditis elegans. Sakube Y, et al. **J Mol Biol** 1997 Apr 11; 267(4):849-64

EMBRYOLOGY

Pattern formation: regional specification in the early C. elegans embryo. Schnabel R. **Bioessays** 1996 Jul;18(7):591-4
MEX-3 is a KH domain protein that regulates blastomere identity in early C. elegans embryos. Draper BW, et al. **Cell** 1996 Oct 18;87(2):205-16
Gut reaction to Wnt signaling in worms [comment] Han M. **Cell** 1997 Aug 22;90(4):581-4 (16 ref.). Comment on: Cell 1997 Aug 22;90(4):695-705. Comment on: Cell 1997 Aug 22;90(4):707-16.
Spatial and temporal controls target pal-1 blastomere-specification activity to a single blastomere lineage in C. elegans embryos. Hunter CP, et al. **Cell** 1996 Oct 18;87(2):217-26
Wnt signaling and an APC-related gene specify endoderm in early C. elegans embryos [see comments] Rocheleau CE, et al. **Cell** 1997 Aug 22;90(4):707-16. Comment in: Cell 1997 Aug 22;90(4):581-4.
Wnt signaling polarizes an early C. elegans blastomere to distinguish endoderm from mesoderm [see comments] Thorpe CJ, et al. **Cell** 1997 Aug 22;90(4):695-705. Comment in: Cell 1997 Aug 22;90(4):581-4.
Nematode development: evolutionary detours of a pivotal cell. Lambie EJ. **Curr Biol** 1997 Mar 1;7(3):R160-3
Molecular genetics of asymmetric cleavage in the early Caenorhabditis elegans embryo. Guo S, et al. **Curr Opin Genet Dev** 1996 Aug;6(4):408-15 (42 ref.)
A fork head/HNF-3 homolog expressed in the pharynx and intestine of the Caenorhabditis elegans embryo. Azzaria M, et al. **Dev Biol** 1996 Sep 15;178(2):289-303
Caenorhabditis elegans HOM-C genes regulate the response of vulval precursor cells to inductive signal. Clandinin TR, et al. **Dev Biol** 1997 Feb 1;182(1):150-61
The role of actin filaments in patterning the Caenorhabditis elegans cuticle. Costa M, et al. **Dev Biol** 1997 Apr 15; 184(2):373-84
Modulation of gene expression in the embryonic digestive tract of C. elegans. Fukushige T, et al. **Dev Biol** 1996 Sep 15;178(2):276-88
Onset of C. elegans gastrulation is blocked by inhibition of embryonic transcription with an RNA polymerase antisense RNA. Powell-Coffman JA, et al. **Dev Biol** 1996 Sep 15; 178(2):472-83
Assessing normal embryogenesis in Caenorhabditis elegans using a 4D microscope: variability of development and regional specification. Schnabel R, et al. **Dev Biol** 1997 Apr 15;184(2):234-65
The Caenorhabditis elegans orphan nuclear hormone receptor gene nhr-2 functions in early embryonic development. Sluder AE, et al. **Dev Biol** 1997 Apr 15; 184(2):303-19
Maternal effect of low temperature on handedness determination in C. elegans embryos. Wood WB, et al. **Dev Genet** 1996;19(3):222-30
PAR-2 is asymmetrically distributed and promotes association of P granules and PAR-1 with the cortex in C. elegans embryos. Boyd L, et al. **Development** 1996 Oct; 122(10):3075-84
The C. elegans MEX-1 protein is present in germline blastomeres and is a P granule component. Guedes S, et al. **Development** 1997 Feb;124(3):731-9
Asymmetric distribution of the C. elegans HAM-1 protein in neuroblasts enables daughter cells to adopt distinct fates. Guenther C, et al. **Development** 1996 Nov;122(11):3509-18
Morphogenesis of the C. elegans hermaphrodite uterus. Newman AP, et al. **Development** 1996 Nov;122(11):3617-26
Transcriptionally repressed germ cells lack a subpopulation of phosphorylated RNA polymerase II in early embryos of Caenorhabditis elegans and Drosophila melanogaster. Seydoux G, et al. **Development** 1997 Jun;124(11):2191-201
par-6, a gene involved in the establishment of asymmetry in early C. elegans embryos, mediates the asymmetric localization of PAR-3. Watts JL, et al. **Development** 1996 Oct;122(10):3133-40
Genes that guide growth cones along the C. elegans ventral nerve cord. Wightman B, et al. **Development** 1997 Jul; 124(13):2571-80
An actin-mediated two-step mechanism is required for ventral enclosure of the C. elegans hypodermis. Williams-Masson EM, et al. **Development** 1997 Aug; 124(15):2889-901
The role of lin-22, a hairy/enhancer of split homolog, in patterning the peripheral nervous system of C. elegans. Wrischnik LA, et al. **Development** 1997 Aug; 124(15):2875-88
ELT-1, a GATA-like transcription factor, is required for epidermal cell fates in Caenorhabditis elegans embryos. Page BD, et al. **Genes Dev** 1997 Jul 1;11(13):1651-61
A screen for genetic loci required for hypodermal cell and glial-like cell development during Caenorhabditis elegans embryogenesis. Chanal P, et al. **Genetics** 1997 May; 146(1):207-26
Vulval development in Caenorhabditis elegans. Kornfeld K. **Trends Genet** 1997 Feb;13(2):55-61 (45 ref.)
[Specification of cell destiny in early Caenorhabditis elegans embryo] Schierenberg E. **Naturwissenschaften** 1997 Feb; 84(2):55-64 (53 ref.) (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Induction of glyoxylate cycle expression in Caenorhabditis elegans: a fasting response throughout larval development. Liu F, et al. **Biochemistry** 1997 Jan 7;36(1):255-60
Sequence comparison of ACE-1, the gene encoding acetylcholinesterase of class A, in the two nematodes Caenorhabditis elegans and Caenorhabditis briggsae. Grauso M, et al. **DNA Seq** 1996;6(4):217-27
A second isoform of 3-ketoacyl-CoA thiolase found in Caenorhabditis elegans, which is similar to sterol carrier protein x but lacks the sequence of sterol carrier protein 2. Bun-Ya M, et al. **Eur J Biochem** 1997 Apr 15; 245(2):252-9
Caenorhabditis elegans sex-determining protein FEM-2 is a protein phosphatase that promotes male development and interacts directly with FEM-3. Chin-Sang ID, et al. **Genes Dev** 1996 Sep 15;10(18):2314-25
The cloning of a Caenorhabditis elegans guanylyl cyclase and the construction of a ligand-sensitive mammalian/nematode chimeric receptor. Baude EJ, et al. **J Biol Chem** 1997 Jun 20;272(25):16035-9
The Caenorhabditis elegans p21-activated kinase (CePAK) colocalizes with CeRac1 and CDC42Ce at hypodermal cell boundaries during embryo elongation. Chen W, et al. **J Biol Chem** 1996 Oct 18;271(42):26362-8
Structure and expression of the Caenorhabditis elegans protein kinase C2 gene. Origins and regulated expression of a family of Ca2+-activated protein kinase C isoforms. Islas-Trejo A, et al. **J Biol Chem** 1997 Mar 7; 272(10):6629-40
Interaction and regulation of the Caenorhabditis elegans death protease CED-3 by CED-4 and CED-9. Wu D, et al. **J Biol Chem** 1997 Aug 22;272(34):21449-54
Caspases: killer proteases. Nicholson DW, et al. **Trends Biochem Sci** 1997 Aug;22(8):299-306 (57 ref.)

GENETICS

Vive la différence: males vs females in flies vs worms. Cline TW, et al. **Annu Rev Genet** 1996;30:637-702 (241 ref.)
Caenorhabditis elegans has two isozymic forms, CE-1 and CE-2, of fructose-1,6-bisphosphate aldolase which are encoded by different genes. Inoue T, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):226-34
Mutations that prevent associative learning in C. elegans. Wen JY, et al. **Behav Neurosci** 1997 Apr;111(2):354-68
Identification and characterization of the SMT3 cDNA and gene from nematode Caenorhabditis elegans. Choudhury BK, et al. **Biochem Biophys Res Commun** 1997 May 29; 234(3):788-91
cDNA sequence of a translational elongation factor Ts homologue from Caenorhabditis elegans: mitochondrial factor-specific features found in the nematode homologue peptide. Watanabe Y, et al. **Biochim Biophys Acta** 1997 Jul 17;1353(1):7-12
Invertebrate gerontology: the age mutations of Caenorhabditis elegans. Lithgow GJ. **Bioessays** 1996 Oct; 18(10):809-15 (71 ref.)
AF10 is split by MLL and HEAB, a human homolog to a putative Caenorhabditis elegans ATP/GTP-binding protein in an invins(10;11)(p12;q23q12). Tanabe S, et al. **Blood** 1996 Nov 1;88(9):3535-45
Expression of a highly conserved oncofetal gene, TA1/E16, in human colon carcinoma and other primary cancers: homology to Schistosoma mansoni amino acid permease and Caenorhabditis elegans gene products. Wolf DA, et al. **Cancer Res** 1996 Nov 1;56(21):5012-22
The cold shock domain protein LIN-28 controls developmental timing in C. elegans and is regulated by the lin-4 RNA. Moss EG, et al. **Cell** 1997 Mar 7; 88(5):637-46
An RNA 5'-triphosphatase related to the protein tyrosine phosphatases. Takagi T, et al. **Cell** 1997 Jun 13;89(6):867-73
Role of a new Rho family member in cell migration and axon guidance in C. elegans. Zipkin ID, et al. **Cell** 1997 Sep 5;90(5):883-94
Quantitative analysis of Caenorhabditis elegans sperm motility and how it is affected by mutants spe11 and unc54. Royal DC, et al. **Cell Motil Cytoskeleton** 1997;37(2):98-110
Mutations and expressions of the tropomyosin gene and the troponin C gene of Caenorhabditis elegans. Kagawa H, et al. **Cell Struct Funct** 1997 Feb;22(1):213-8
Touch at the molecular level. Mechanosensation. García-Añoveros J, et al. **Curr Biol** 1996 May 1;6(5):541-3 (16 ref.)
Dosage compensation: X-repress yourself. Wood WB, et al. **Curr Biol** 1997 Apr 1;7(4):R227-30 (18 ref.)
Turn to the worm! Ahringer J. **Curr Opin Genet Dev** 1997 Jun;7(3):410-5 (42 ref.)
Gene structure and organization in Caenorhabditis elegans. Blumenthal T, et al. **Curr Opin Genet Dev** 1996 Dec; 6(6):692-8 (34 ref.)
Programmed cell death in invertebrates. Hengartner MO. **Curr Opin Genet Dev** 1996 Feb;6(1):34-8 (37 ref.)
cec-1, a soma-specific chromobox-containing gene in C. elegans. Agostoni E, et al. **Dev Biol** 1996 Sep 15; 178(2):316-26
Genes required for GLP-1 asymmetry in the early Caenorhabditis elegans embryo. Crittenden SL, et al. **Dev Biol** 1997 Jan 1;181(1):36-46
C. elegans cell migration gene mig-10 shares similarities with a family of SH2 domain proteins and acts cell nonautonomously in excretory canal development. Manser J, et al. **Dev Biol** 1997 Apr 1;184(1):150-64
Direct isolation of longevity mutants in the nematode Caenorhabditis elegans. Duhon SA, et al. **Dev Genet** 1996; 18(2):144-53
Defining genes that govern longevity in Caenorhabditis elegans. Ebert RH 2d, et al. **Dev Genet** 1996;18(2):131-43
Germ-line tumor formation caused by activation of glp-1, a Caenorhabditis elegans member of the Notch family of receptors. Berry LW, et al. **Development** 1997 Feb; 124(4):925-36
SDC-3 coordinates the assembly of a dosage compensation complex on the nematode X chromosome. Davis TL, et al. **Development** 1997 Mar;124(5):1019-31
Structure, function, and expression of SEL-1, a negative regulator of LIN-12 and GLP-1 in C. elegans. Grant B, et al. **Development** 1997 Feb;124(3):637-44
The C. elegans gene pag-3 is homologous to the zinc finger proto-oncogene gfi-1. Jia Y, et al. **Development** 1997 May; 124(10):2063-73
A C. elegans E/Daughterless bHLH protein marks neuronal but not striated muscle development. Krause M, et al. **Development** 1997 Jun;124(11):2179-89
cdh-3, a gene encoding a member of the cadherin superfamily, functions in epithelial cell morphogenesis in Caenorhabditis elegans. Pettitt J, et al. **Development** 1996 Dec;122(12):4149-57
A Ras-mediated signal transduction pathway is involved in the control of sex myoblast migration in Caenorhabditis elegans. Sundaram M, et al. **Development** 1996 Sep; 122(9):2823-33
Genes that guide growth cones along the C. elegans ventral nerve cord. Wightman B, et al. **Development** 1997 Jul; 124(13):2571-80
Isolation of a cDNA encoding a Kex2-like endoprotease with homology to furin from the nematode Caenorhabditis elegans. Gómez-Saladín E, et al. **DNA Cell Biol** 1997 May; 16(5):663-9
Cloning, sequencing and mapping of a manganese superoxide dismutase gene of the nematode Caenorhabditis elegans. Suzuki N, et al. **DNA Res** 1996 Jun 30;3(3):171-4
Sequence comparison of ACE-1, the gene encoding acetylcholinesterase of class A, in the two nematodes

Caenorhabditis elegans and Caenorhabditis briggsae. Grauso M, et al. **DNA Seq** 1996;6(4):217–27

Nucleotide sequence of ribosomal protein L3 cDNA and the exon–intron structure of L3 gene in the nematode, Caenorhabditis elegans. Zhu X, et al. **DNA Seq** 1996; 6(5):299–302

(GTG)5 allows the distinction between different isolates of the nematode Caenorhabditis elegans. Benecke M, et al. **Electrophoresis** 1996 Jul;17(7):1194

The tra–3 sex determination gene of Caenorhabditis elegans encodes a member of the calpain regulatory protease family. Barnes TM, et al. **EMBO J** 1996 Sep 2; 15(17):4477–84

hch–1, a gene required for normal hatching and normal migration of a neuroblast in C. elegans, encodes a protein related to TOLLOID and BMP–1. Hishida R, et al. **EMBO J** 1996 Aug 15;15(16):4111–22

Computer analyses reveal a hobo–like element in the nematode Caenorhabditis elegans, which presents a conserved transposase domain common with the Tc1–Mariner transposon family. Bigot Y, et al. **Gene** 1996 Oct 3;174(2):265–71

Isolation of the gene coding for Caenorhabditis elegans Rac2 homologue, a Ras–related small GTP–binding protein. Chen W, et al. **Gene** 1996 Nov 21;180(1–2):217–9

Conservation of the Caenorhabditis elegans cuticle collagen gene col–12 in Caenorhabditis briggsae. Gilleard JS, et al. **Gene** 1997 Jul 9;193(2):181–6

Conservation of function and expression of unc–119 from two Caenorhabditis species despite divergence of non–coding DNA. Maduro M, et al. **Gene** 1996 Dec 12; 183(1–2):77–85

The Caenorhabditis elegans gene CeAPN1 encodes a homolog of Escherichia coli and yeast apurinic/apyrimidinic endonuclease. Masson JY, et al. **Gene** 1996 Nov 14;179(2):291–3

Structure and expression of the gsa–1 gene encoding a G protein alpha(s) subunit in C. elegans. Park JH, et al. **Gene** 1997 Jul 31;194(2):183–90

A bulged lin–4/lin–14 RNA duplex is sufficient for Caenorhabditis elegans lin–14 temporal gradient formation. Ha I, et al. **Genes Dev** 1996 Dec 1;10(23):3041–50

An activating mutation in a Caenorhabditis elegans Gs protein induces neural degeneration. Korswagen HC, et al. **Genes Dev** 1997 Jun 15;11(12):1493–503

The UNC–14 protein required for axonal elongation and guidance in Caenorhabditis elegans interacts with the serine/threonine kinase UNC–51. Ogura K, et al. **Genes Dev** 1997 Jul 15;11(14):1801–11

The Caenorhabditis elegans gene lin–17, which is required for certain asymmetric cell divisions, encodes a putative seven–transmembrane protein similar to the Drosophila frizzled protein. Sawa H, et al. **Genes Dev** 1996 Sep 1; 10(17):2189–97

Caenorhabditis elegans LET–502 is related to Rho–binding kinases and human myotonic dystrophy kinase and interacts genetically with a homolog of the regulatory subunit of smooth muscle myosin phosphatase to affect cell shape. Wissmann A, et al. **Genes Dev** 1997 Feb 15;11(4):409–22

Macrorestriction analysis of Caenorhabditis elegans genomic DNA. Browning H, et al. **Genetics** 1996 Oct;144(2):609–19

A screen for genetic loci required for hypodermal cell and glial–like cell development during Caenorhabditis elegans embryogenesis. Chanal P, et al. **Genetics** 1997 May; 146(1):207–26

Evolution of sex determination in caenorhabditis: unusually high divergence of tra–1 and its functional consequences. de Bono M, et al. **Genetics** 1996 Oct;144(2):587–95

Mechanism of activation of the Caenorhabditis elegans ras homologue let–60 by a novel, temperature–sensitive, gain–of–function mutation. Eisenmann DM, et al. **Genetics** 1997 Jun;146(2):553–65

The mup–4 locus in Caenorhabditis elegans is essential for hypodermal integrity, organismal morphogenesis and embryonic body wall muscle position. Gatewood BK, et al. **Genetics** 1997 May;146(1):165–83

Natural variation and copulatory plug formation in Caenorhabditis elegans. Hodgkin J, et al. **Genetics** 1997 May;146(1):149–64

glp–3 is required for mitosis and meiosis in the Caenorhabditis elegans germ line. Kadyk LC, et al. **Genetics** 1997 Jan; 145(1):111–21

Distinct requirements for somatic and germline expression of a generally expressed Caernorhabditis elegans gene. Kelly WG, et al. **Genetics** 1997 May;146(1):227–38

Interspecies comparison reveals evolution of control regions in the nematode sex–determining gene tra–2. Kuwabara PE. **Genetics** 1996 Oct;144(2):597–607

The Caenorhabditis elegans spe–5 gene is required for morphogenesis of a sperm–specific organelle and is associated with an inherent cold–sensitive phenotype. Machaca K, et al. **Genetics** 1997 Jun;146(2):567–81

Genetic analysis of the roles of daf–28 and age–1 in regulating Caenorhabditis elegans dauer formation. Malone EA, et al. **Genetics** 1996 Jul;143(3):1193–205

Mosaic analysis using a ncl–1 (+) extrachromosomal array reveals that lin–31 acts in the Pn.p cells during Caenorhabditis elegans vulval development. Miller LM, et al. **Genetics** 1996 Jul;143(3):1181–91

A genetic pathway conferring life extension and resistance to UV stress in Caenorhabditis elegans. Murakami S, et al. **Genetics** 1996 Jul;143(3):1207–18

Genes affecting sensitivity to serotonin in Caenorhabditis elegans. Schafer WR, et al. **Genetics** 1996 Jul; 143(3):1219–30

Mapping quantitative trait loci affecting life history traits in the nematode Caenorhabditis elegans. Shook DR, et al. **Genetics** 1996 Mar;142(3):801–17

A deficiency screen for zygotic loci required for establishment and patterning of the epidermis in Caenorhabditis elegans. Terns RM, et al. **Genetics** 1997 May;146(1):185–206

Three novel T–box genes in Caenorhabditis elegans. Agulnik SI, et al. **Genome** 1997 Aug;40(4):458–64

A novel set of uncoordinated mutants in Caenorhabditis elegans uncovered by cold–sensitive mutations. Hecht RM, et al. **Genome** 1996 Apr;39(2):459–64

The C. elegans genome sequencing project. C. elegans Genome Mapping and Sequencing Consortium. Berks M. **Genome Res** 1995 Sep;5(2):99–104 (11 ref.)

The structure of the human multiple exostoses 2 gene and characterization of homologs in mouse and Caenorhabditis elegans [letter] Clines GA, et al. **Genome Res** 1997 Apr; 7(4):359–67

A transposon–based strategy for sequencing repetitive DNA in eukaryotic genomes. Devine SE, et al. **Genome Res** 1997 May;7(5):551–63

Postsequence genetics of Caenorhabditis elegans. Plasterk RH. **Genome Res** 1996 Mar;6(3):169–75 (36 ref.)

Polycistronic expression and RNA–binding specificity of the C. elegans homologue of the spliceosome–associated protein SAP49. Tanaka Y, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):739–45

Structure and expression of the Caenorhabditis elegans protein kinase C2 gene. Origins and regulated expression of a family of Ca2+–activated protein kinase C isoforms. Islas–Trejo A, et al. **J Biol Chem** 1997 Mar 7; 272(10):6629–40

Identification of cDNA clones for the large subunit of eukaryotic translation initiation factor 3. Comparison of homologues from human, Nicotiana tabacum, Caenorhabditis elegans, and Saccharomyces cerevisiae. Johnson KR, et al. **J Biol Chem** 1997 Mar 14; 272(11):7106–13

Molecular characterization of a novel, developmentally regulated small embryonic chaperone from Caenorhabditis elegans. Linder B, et al. **J Biol Chem** 1996 Nov 22; 271(47):30158–66

Three vha genes encode proteolipids of Caenorhabditis elegans vacuolar–type ATPase. Gene structures and preferential expression in an H–shaped excretory cell and rectal cells. Oka T, et al. **J Biol Chem** 1997 Sep 26; 272(39):24387–92

Identification, sequence, and expression of an invertebrate caveolin gene family from the nematode Caenorhabditis elegans. Implications for the molecular evolution of mammalian caveolin genes. Tang Z, et al. **J Biol Chem** 1997 Jan 24;272(4):2437–45

Evolutionary conservation of a genetic pathway of programmed cell death. Yuan J. **J Cell Biochem** 1996 Jan; 60(1):4–11 (53 ref.)

Type IV collagen is detectable in most, but not all, basement membranes of Caenorhabditis elegans and assembles on tissues that do not express it. Graham PL, et al. **J Cell Biol** 1997 Jun 2;137(5):1171–83

Characterization of alpha1(IV) collagen mutations in Caenorhabditis elegans and the effects of alpha1 and alpha2(IV) mutations on type IV collagen distribution. Gupta MC, et al. **J Cell Biol** 1997 Jun 2;137(5):1185–96

A nematode gene required for sperm vesicle fusion. Achanzar WE, et al. **J Cell Sci** 1997 May;110 (Pt 9):1073–81

PTL–1, a microtubule–associated protein with tau–like repeats from the nematode Caenorhabditis elegans. Goedert M, et al. **J Cell Sci** 1996 Nov;109 (Pt 11):2661–72

Reporter gene constructs suggest that the Caenorhabditis elegans avermectin receptor beta–subunit is expressed solely in the pharynx. Laughton DL, et al. **J Exp Biol** 1997 May;200 (Pt 10):1509–14

Modulation of kinase activities in dauers and in long–lived mutants of Caenorhabditis elegans. Vanfleteren JR, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul;52(4):B212–6

Molecular cloning and expression of the Caenorhabditis elegans klp–3, an ortholog of C terminus motor kinesins Kar3 and ncd. Khan ML, et al. **J Mol Biol** 1997 Aug 1; 270(5):627–39

Expression patterns and transcript processing of ftt–1 and ftt–2, two C. elegans 14–3–3 homologues. Wang W, et al. **J Mol Biol** 1997 May 9;268(3):619–30

A new transmembrane 4 superfamily molecule in the nematode, Caenorhabditis elegans [letter] Tomlinson MG, et al. **J Mol Evol** 1996 Sep;43(3):312–4

Evolutionary relationship of the ligand–gated ion channels and the avermectin–sensitive, glutamate–gated chloride channels. Vassilatis DK, et al. **J Mol Evol** 1997 May; 44(5):501–8

Molecular cloning and functional expression of a serotonin receptor from Caenorhabditis elegans. Olde B, et al. **J Mol Neurosci** 1997 Feb;8(1):53–62

A murine neural–specific homolog corrects cholinergic defects in Caenorhabditis elegans unc–18 mutants. Gengyo–Ando K, et al. **J Neurosci** 1996 Nov 1; 16(21):6695–702

Activation of the mec–3 promoter in two classes of stereotyped lineages in Caenorhabditis elegans. Wang L, et al. **Mech Dev** 1996 May;56(1–2):165–81

Promoter sequences for the establishment of mec–3 expression in the nematode Caenorhabditis elegans. Wang L, et al. **Mech Dev** 1996 May;56(1–2):183–96

Cloning and characterization of cDNAs encoding putative glutamate transporters from Caenorhabditis elegans and Onchocerca volvulus. Radice AD, et al. **Mol Biochem Parasitol** 1996 Sep;80(1):41–53

Post–transcriptional regulation of sex determination in Caenorhabditis elegans: widespread expression of the sex–determining gene fem–1 in both sexes. Gaudet J, et al. **Mol Biol Cell** 1996 Jul;7(7):1107–21

Surfeit locus gene homologs are widely distributed in invertebrate genomes. Armes N, et al. **Mol Cell Biol** 1996 Oct;16(10):5591–6

cis regulatory requirements for hypodermal cell–specific expression of the Caenorhabditis elegans cuticle collagen gene dpy–7. Gilleard JS, et al. **Mol Cell Biol** 1997 Apr; 17(4):2301–11

Genetic analysis of sterile mutants in the dpy–5 unc–13 (I) genomic region of Caenorhabditis elegans. McDowall JS, et al. **Mol Gen Genet** 1997 Jun;255(1):60–77

Alignment of the genetic and physical maps in the dpy–5 bli–4 (I) region of C. elegans by the serial cosmid rescue of lethal mutations. McDowall JS, et al. **Mol Gen Genet** 1997 Jun;255(1):78–95

An evolutionary framework for the study of developmental evolution in a set of nematodes related to Caenorhabditis elegans. Baldwin JG, et al. **Mol Phylogenet Evol** 1997 Oct; 8(2):249–59

What makes the worm squirm? [news] Rand JB. **Mol Psychiatry** 1997 Jul;2(4):293–5

Properties of an oxygen–sensitive mutant mev–3 of the nematode Caenorhabditis elegans. Yamamoto K, et al. **Mutat Res** 1996 Oct 28;358(1):1–6

Reverse genetics by chemical mutagenesis in Caenorhabditis elegans. Jansen G, et al. **Nat Genet** 1997 Sep;17(1):119–21

X–chromosome–counting mechanisms that determine nematode sex. Nicoll M, et al. **Nature** 1997 Jul 10; 388(6638):200–4

Evolutionary genetics. The muddle about mutations [news] Peck JR, et al. **Nature** 1997 May 8;387(6629):135–6

aex–3 encodes a novel regulator of presynaptic activity in C. elegans. Iwasaki K, et al. **Neuron** 1997 Apr;18(4):613–22

Membrane topology of the C. elegans SEL–12 presenilin. Li X, et al. **Neuron** 1996 Nov;17(5):1015–21

Eight potassium channel families revealed by the C. elegans genome project. Wei A, et al. **Neuropharmacology** 1996; 35(7):805–29

Molecular cloning and in vitro expression of C. elegans and parasitic nematode ionotropic receptors. Fleming JT, et al. **Parasitology** 1996;113 Suppl:S175–90 (73 ref.)

Molecular and clinical aspects of apoptosis. Uren AG, et al. **Pharmacol Ther** 1996;72(1):37–50 (165 ref.)

The Caenorhabditis elegans gene unc–76 and its human homologs define a new gene family involved in axonal outgrowth and fasciculation. Bloom L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3414–9

A dynamin GTPase mutation causes a rapid and reversible temperature–inducible locomotion defect in C. elegans. Clark SG, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10438–43

Environmental induction and genetic control of surface antigen switching in the nematode Caenorhabditis elegans. Grenache DG, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12388–93

Genomic mutation rates for lifetime reproductive output and lifespan in Caenorhabditis elegans. Keightley PD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3823–7

Transposon Tc1–derived, sequence–tagged sites in Caenorhabditis elegans as markers for gene mapping. Korswagen HC, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14680–5

Assessment of normal and mutant human presenilin function in Caenorhabditis elegans. Levitan D, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14940–4

A genetic selection for Caenorhabditis elegans synaptic transmission mutants. Miller KG, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12593–8

smg mutants affect the expression of alternatively spliced SR protein mRNAs in Caenorhabditis elegans. Morrison M, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9782–5

Identification of an animal omega–3 fatty acid desaturase by heterologous expression in Arabidopsis. Spychalla JP, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1142–7

Quantitative trait loci controlling halothane sensitivity in Caenorhabditis elegans. van Swinderen B, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8232–7

Telomeric repeats (TTAGGC)n are sufficient for chromosome capping function in Caenorhabditis elegans. Wicky C, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):8983–8

Relationship between 3' end formation and SL2–specific trans–splicing in polycistronic Caenorhabditis elegans pre–mRNA processing. Kuersten S, et al. **RNA** 1997 Mar; 3(3):269–78

Sex–specific assembly of a dosage compensation complex on the nematode X chromosome [see comments] Chuang PT, et al. **Science** 1996 Dec 6;274(5293):1736–9. Comment in: Science 1996 Dec 6;274(5293):1633–4.

Structural and functional conservation of the Caenorhabditis elegans timing gene clk–1 [see comments] Ewbank JJ, et

al. **Science** 1997 Feb 14;275(5302):980–3. Comment in: Science 1997 Feb 14;275(5302):943–4.

daf–2, an insulin receptor–like gene that regulates longevity and diapause in Caenorhabditis elegans [see comments] Kimura KD, et al. **Science** 1997 Aug 15;277(5328):942–6. Comment in: Science 1997 Aug 15;277(5328):897–8.

Worm longevity gene cloned [news; comment] Roush W. **Science** 1997 Aug 15;277(5328):897–8. Comment on: Science 1997 Aug 15;277(5328):942–6.

The C. elegans expression pattern database: a beginning. Hope IA, et al. **Trends Genet** 1996 Sep;12(9):370–1

GROWTH & DEVELOPMENT

Bioreactor cultivation of the nematode Caenorhabditis elegans: large scale production of biologically active drug receptors for pharmaceutical research. Gbewonyo K, et al. **Biotechnol Genet Eng Rev** 1997;14:37–49 (35 ref.)

Direct isolation of longevity mutants in the nematode Caenorhabditis elegans. Duhon SA, et al. **Dev Genet** 1996; 18(2):144–53

Defining genes that govern longevity in Caenorhabditis elegans. Ebert RH 2d, et al. **Dev Genet** 1996;18(2):131–43

Genes necessary for C. elegans cell and growth cone migrations. Forrester WC, et al. **Development** 1997 May; 124(9):1831–43

cdh–3, a gene encoding a member of the cadherin superfamily, functions in epithelial cell morphogenesis in Caenorhabditis elegans. Pettitt J, et al. **Development** 1996 Dec;122(12):4149–57

Genetic analysis of the roles of daf–28 and age–1 in regulating Caenorhabditis elegans dauer formation. Malone EA, et al. **Genetics** 1996 Jul;143(3):1193–205

Mapping quantitative trait loci affecting life history traits in the nematode Caenorhabditis elegans. Shook DR, et al. **Genetics** 1996 Mar;142(3):801–17

An evolutionary framework for the study of developmental evolution in a set of nematodes related to Caenorhabditis elegans. Baldwin JG, et al. **Mol Phylogenet Evol** 1997 Oct; 8(2):249–59

Control of C. elegans larval development by neuronal expression of a TGF–beta homolog. Ren P, et al. **Science** 1996 Nov 22;274(5291):1389–91

METABOLISM

Cloning and mapping of a ryanodine receptor homolog gene of Caenorhabditis elegans. Sakube Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:540–5

Molecular cloning of a cDNA for the glutamate transporter of the nematode Caenorhabditis elegans. Kawano T, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):415–20

Caenorhabditis elegans LIN–2A and mammalian neuronal CASK are prototypical members of a subfamily of MAGUKs (membrane–associated guanylate kinases) characterized by a common kinase–like domain and a guanylate kinase domain predicted to bind ATP [letter] Baines AJ. **Biochem J** 1996 Dec 1;320 (Pt 2):694–6

Assembly of nematode cuticle: role of hydrophobic interactions in CUT–2 cross–linking. Parise G, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):295–301

Neuronal cell migration in C. elegans: regulation of Hox gene expression and cell position. Harris J, et al. **Development** 1996 Oct;122(10):3117–31

Homologues of the human multidrug resistance genes MRP and MDR contribute to heavy metal resistance in the soil nematode Caenorhabditis elegans. Broeks A, et al. **EMBO J** 1996 Nov 15;15(22):6132–43

Roles of the RAM and ANK domains in signaling by the C. elegans GLP–1 receptor. Roehl H, et al. **EMBO J** 1996 Dec 16;15(24):7002–12

Structural and functional characterization of the extracellular calcium–binding protein BM–40/secreted protein, acidic, rich in cysteine/osteonectin from the nematode Caenorhabditis elegans. Maurer P, et al. **Eur J Biochem** 1997 Aug 15;248(1):209–16

Structure–function studies on small heat shock protein oligomeric assembly and interaction with unfolded polypeptides. Leroux MR, et al. **J Biol Chem** 1997 Sep 26;272(39):24646–56

Cortical actin movements during the first cell cycle of the Caenorhabditis elegans embryo. Hird S. **J Cell Sci** 1996 Feb;109 (Pt 2):525–33

Modulation of kinase activities in dauers and in long–lived mutants of Caenorhabditis elegans. Vanfleteren JR, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul;52(4):B212–6

Effects of growth temperature on the fatty acid composition of the free–living nematode Caenorhabditis elegans. Tanaka T, et al. **Lipids** 1996 Nov;31(11):1173–8

Positive and negative tissue–specific signaling by a nematode epidermal growth factor receptor. Lesa GM, et al. **Mol Biol Cell** 1997 May;8(5):779–93

Talin requires beta–integrin, but not vinculin, for its assembly into focal adhesion–like structures in the nematode Caenorhabditis elegans. Moulder GL, et al. **Mol Biol Cell** 1996 Aug;7(8):1181–93

ADM–1, a protein with metalloprotease– and disintegrin–like domains, is expressed in syncytial organs, sperm, and sheath cells of sensory organs in Caenorhabditis elegans. Podbilewicz B. **Mol Biol Cell** 1996 Dec;7(12):1877–93

Interaction between the C. elegans cell–death regulators CED–9 and CED–4. Spector MS, et al. **Nature** 1997 Feb 13;385(6617):653–6

Metabolism and inactivation of neurotransmitters in nematodes. Isaac RE, et al. **Parasitology** 1996;113 Suppl:S157–73 (120 ref.)

Solution structure of the donor site of a trans–splicing RNA. Greenbaum NL, et al. **Structure** 1996 Jun 15;4(6):725–33

PHYSIOLOGY

Twitchin and related giant Ig superfamily members of C. elegans and other invertebrates. Benian GM, et al. **Adv Biophys** 1996;33:183–98 (58 ref.)

Molecular modeling of mechanotransduction in the nematode Caenorhabditis elegans. Tavernarakis N, et al. **Annu Rev Physiol** 1997;59:659–89 (93 ref.)

Cold shock before associative conditioning blocks memory retrieval, but cold shock after conditioning blocks memory retention in Caenorhabditis elegans. Morrison GE, et al. **Behav Neurosci** 1997 Jun;111(3):564–78

Effects of tap withdrawal response habituation on other withdrawal behaviors: the localization of habituation in the nematode Caenorhabditis elegans. Wicks SR, et al. **Behav Neurosci** 1997 Apr;111(2):342–53

Recovery from habituation in Caenorhabditis elegans is dependent on interstimulus interval and not habituation kinetics. Wicks SR, et al. **Behav Neurosci** 1996 Aug; 110(4):840–4

Touch sensation in Caenorhabditis elegans. Herman RK. **Bioessays** 1996 Mar;18(3):199–206 (64 ref.)

Cell death in C. elegans: molecular insights into mechanisms conserved between nematodes and mammals. Driscoll M. **Brain Pathol** 1996 Oct;6(4):411–25 (107 ref.)

Touch at the molecular level. Mechanosensation. García–Añoveros J, et al. **Curr Biol** 1996 May 1;6(5):541–3 (16 ref.)

CED–4 induces chromatin condensation in Schizosaccharomyces pombe and is inhibited by direct physical association with CED–9. James C, et al. **Curr Biol** 1997 Apr 1;7(4):246–52

Sensory signaling in Caenorhabditis elegans. Kaplan JM. **Curr Opin Neurobiol** 1996 Aug;6(4):494–9 (34 ref.)

Genetic enhancers of sem–5 define components of the gonad–independent guidance mechanism controlling sex myoblast migration in Caenorhabditis elegans hermaphrodites. Chen EB, et al. **Dev Biol** 1997 Feb 1; 182(1):88–100

GLD–1, a cytoplasmic protein essential for oocyte differentiation, shows stage– and sex–specific expression during Caenorhabditis elegans germline development. Jones AR, et al. **Dev Biol** 1996 Nov 25;180(1):165–83

Identification of novel paired homeodomain protein related to C. elegans unc–4 as a potential downstream target of MASH1. Saito T, et al. **Dev Biol** 1996 Nov 25;180(1):143–55

The Groucho–like transcription factor UNC–37 functions with the neural specificity gene unc–4 to govern motor neuron identity in C. elegans. Pflugrad A, et al. **Development** 1997 May;124(9):1699–709

VP16–activation of the C. elegans neural specification transcription factor UNC–86 suppresses mutations in downstream genes and causes defects in neural migration and axon outgrowth. Sze JY, et al. **Development** 1997 Mar; 124(6):1159–68

Isolation of actin–associated proteins from Caenorhabditis elegans oocytes and their localization in the early embryo. Aroian RV, et al. **EMBO J** 1997 Apr 1;16(7):1541–9

The Caenorhabditis elegans death protein Ced–4 contains a motif with similarity to the mammalian 'death effector domain'. Bauer MK, et al. **FEBS Lett** 1997 Feb 3; 402(2–3):256–8

An activating mutation in a Caenorhabditis elegans Gs protein induces neural degeneration. Korswagen HC, et al. **Genes Dev** 1997 Jun 15;11(12):1493–503

Two neuronal G proteins are involved in chemosensation of the Caenorhabditis elegans Dauer–inducing pheromone. Zwaal RR, et al. **Genetics** 1997 Mar;145(3):715–27

Hydrophobicity variations along the surface of the coiled–coil rod may mediate striated muscle myosin assembly in Caenorhabditis elegans. Hoppe PE, et al. **J Cell Biol** 1996 Oct;135(2):371–82

The integration of antagonistic reflexes revealed by laser ablation of identified neurons determines habituation kinetics of the Caenorhabditis elegans tap withdrawal response. Wicks SR, et al. **J Comp Physiol [A]** 1996 Nov; 179(5):675–85

A putative cyclic nucleotide–gated channel is required for sensory development and function in C. elegans. Coburn CM, et al. **Neuron** 1996 Oct;17(4):695–706

Mutations in a cyclic nucleotide–gated channel lead to abnormal thermosensation and chemosensation in C. elegans. Komatsu H, et al. **Neuron** 1996 Oct;17(4):707–18

Chemosensory neurons function in parallel to mediate a pheromone response in C. elegans. Schackwitz WS, et al. **Neuron** 1996 Oct;17(4):719–28

unc–8, a DEG/ENaC family member, encodes a subunit of a candidate mechanically gated channel that modulates C. elegans locomotion. Tavernarakis N, et al. **Neuron** 1997 Jan;18(1):107–19

egl–17 encodes an invertebrate fibroblast growth factor family member required specifically for sex myoblast migration in Caenorhabditis elegans. Burdine RD, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2433–7

Multiple potential germ–line helicases are components of the germ–line–specific P granules of Caenorhabditis elegans. Gruidl ME, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13837–42

Identification of chemical synapses in the pharynx of Caenorhabditis elegans. Li H, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5912–6

Multiple time scales in simple habituation. Staddon JE, et al. **Psychol Rev** 1996 Oct;103(4):720–33

Structural and functional conservation of the Caenorhabditis elegans timing gene clk–1 [see comments] Ewbank JJ, et al. **Science** 1997 Feb 14;275(5302):980–3. Comment in: Science 1997 Feb 14;275(5302):943–4.

DPY–26, a link between dosage compensation and meiotic chromosome segregation in the nematode [see comments] Lieb JD, et al. **Science** 1996 Dec 6;274(5293):1732–6. Comment in: Science 1996 Dec 6;274(5293):1633–4.

Genetics in rhythm. Iwasaki K, et al. **Trends Genet** 1997 Mar; 13(3):111–5 (50 ref.)

RADIATION EFFECTS

A genetic pathway conferring life extension and resistance to UV stress in Caenorhabditis elegans. Murakami S, et al. **Genetics** 1996 Jul;143(3):1207–18

ULTRASTRUCTURE

Caenorhabditis elegans cuticle: a description of new elements of the fibrous layer. Peixoto CA, et al. **J Parasitol** 1997 Jun;83(3):368–72

CAERULEIN

Edema and intrapancreatic trypsinogen activation precede glutathione depletion during caerulein pancreatitis. Grady T, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G20–6

Pancreatic GAPDH gene expression during ontogeny and acute pancreatitis induced by caerulein. Calvo EL, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):636–40

Adaptation of pancreas to repeated caerulein–induced pancreatitis in rats. Dembinski A, et al. **J Physiol Pharmacol** 1996 Sep;47(3):455–67

Expression of transforming growth factor–beta 1 and epidermal growth factor in caerulein–induced pancreatitis in rat. Konturek PC, et al. **J Physiol Pharmacol** 1997 Mar; 48(1):59–72

Role of sensory nerves in pancreatic secretion and caerulein–induced pancreatitis. Warzecha Z, et al. **J Physiol Pharmacol** 1997 Mar;48(1):43–58

Increased pancreatic metallothionein and glutathione levels: protecting against cerulein– and taurocholate–induced acute pancreatitis in rats. Wang ZH, et al. **Pancreas** 1996 Aug;13(2):173–83

Analysis of the derangement of the pancreatic microcirculation in a rat caerulein pancreatitis model using an intravital microscope system. Shibuya K, et al. **Tohoku J Exp Med** 1996 Oct;180(2):173–86

ADMINISTRATION & DOSAGE

Exocrine function of caerulein–induced acute pancreatitis in anesthetized rats. Sata N, et al. **J Gastroenterol** 1996 Feb; 31(1):94–9

Ethanol consumption and susceptibility of the pancreas to cerulein–induced pancreatitis. Ponnappa BC, et al. **Pancreas** 1997 Mar;14(2):150–7

Adaptation of the pancreas to repeated caerulein administration in rats. A morphological and functional study. Tomaszewska R, et al. **Pol J Pathol** 1997; 48(2):95–101

DIAGNOSTIC USE

Ultrasonic evaluation of gallbladder emptying with ceruletide. Muraca M, et al. **Ital J Gastroenterol** 1996 Jan; 28(1):38–9

[Bile acid stimulation test with ceruletide] Rufer M, et al. **Tierarztl Prax** 1997 Jan;25(1):80–4 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Caerulein–stimulated arachidonic acid release in rat pancreatic acini: a diacylglycerol lipase affair. Hou W, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1735–42

Camostate– and caerulein–induced delay of gastric emptying in the rat: effect of CCK receptor antagonists. Varga G, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):153–9

Cerulein–induced in vitro activation of trypsinogen in rat pancreatic acini is mediated by cathepsin B. Saluja AK, et al. **Gastroenterology** 1997 Jul;113(1):304–10

Caerulein may potentiate morphine–induced antinociception by cholecystokinin–A and/or cholecystokinin–B receptor mechanisms. Rezayat M, et al. **Gen Pharmacol** 1997 Feb; 28(2):337–40

Ceruletide improves event–related potential indicators of cognitive processing in young but not in elderly humans. Dodt C, et al. **J Clin Psychopharmacol** 1996 Dec; 16(6):440–5

Nitric oxide mediates caerulein–induced suppression of locomotor activity. Volke V, et al. **Neuropeptides** 1996 Aug;30(4):323–6

Evidence for cholecystokininA receptors in bovine adrenal chromaffin cells. Aarnisalo AM, et al. **Neuroreport** 1996 Sep 2;7(13):2167–70

Expression of the protooncogene jun is induced in the rat pancreas by cerulein infusion. Ferrara C, et al. **Pancreas** 1997 Aug;15(2):160–7

Distribution of a synthetic protease inhibitor in rat pancreatic acini after supramaximal secretagogue stimulation. Otani T, et al. **Pancreas** 1997 Mar;14(2):142–9

Effects of caerulein and CCK antagonists on tolerance induced to morphine antinociception in mice. Zarrindast MR, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):173–8

Effects of ceruletide on perioral movements and the dopamine receptor–adenylate cyclase system in rats chronically treated with fluphenazine. Ashizawa T, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):185–94

THERAPEUTIC USE

Analgesic effect of ceruletide in men is limited to specific pain qualities. Pause BM, et al. **Physiol Behav** 1996 Jun; 59(6):1025–31

[Echographic and ERCP–manometric study of gallbladder and Oddi's sphincter behavior in biliary colic in patients with cholelithiasis. Effects of cerulein] Pizzuto G, et al. **Minerva Chir** 1996 Dec;51(12):1145–9 (Eng. Abstr.) **(Ita)**

TOXICITY

Stress–activated protein kinase activation is the earliest direct correlate to the induction of secretagogue–induced pancreatitis in rats. Grady T, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):1–7

Transgenic copper/zinc–superoxide dismutase ameliorates caerulein–induced pancreatitis in mice. Kikuchi Y, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):177–81

CAERULEIN RECEPTORS see **RECEPTORS, CHOLECYSTOKININ**

CAERULOPLASMIN see **CERULOPLASMIN**

CAFE–AU–LAIT SPOTS

ETIOLOGY

Darier's disease associated with multiple café–au–lait macules. Soroush V, et al. **Cutis** 1997 Apr;59(4):193–5

Cutaneous fibrous dysplasia: an incomplete form of the McCune–Albright syndrome. Schwartz RA, et al. **Dermatology** 1996;192(3):258–61 (16 ref.)

GENETICS

Familial café au lait spots: a variant of neurofibromatosis type 1. Abeliovich D, et al. **J Med Genet** 1995 Dec;32(12):985–6

PATHOLOGY

Darier's disease associated with multiple café–au–lait macules. Soroush V, et al. **Cutis** 1997 Apr;59(4):193–5

THERAPY

Copper vapour laser treatment of café–au–lait macules. Somyos K, et al. **Br J Dermatol** 1996 Dec;135(6):964–8

CAFFEA see **COFFEE**

CAFFEIC ACIDS

ADMINISTRATION & DOSAGE

Effect of caffeic acid dietary supplementation on the antioxidant defense system in rat: an in vivo study. Nardini M, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):157–60

BLOOD

Determination of caffeic acid in rabbit plasma by high–performance liquid chromatography. Uang YS, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):43–9

CHEMISTRY

Preparation and properties of a 3,4–dihydroxycinnamic acid chromophore variant of the photoactive yellow protein. Devanathan S, et al. **Arch Biochem Biophys** 1997 Apr 1; 340(1):83–9

Antioxidant activity of polyphenolics in diets. Rate constants of reactions of chlorogenic acid and caffeic acid with reactive species of oxygen and nitrogen. Kono Y, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):335–42

Arylamide inhibitors of HIV–1 integrase. Zhao H, et al. **J Med Chem** 1997 Apr 11;40(8):1186–94

PHARMACOLOGY

Chemosensitizing activity of caffeic acid in multidrug–resistant MCF–7/Dox human breast carcinoma cells. Ahn CH, et al. **Anticancer Res** 1997 May–Jun; 17(3C):1913–7

Inhibitory effect of caffeic acid phenethyl ester on human leukemia HL–60 cells. Chen JH, et al. **Cancer Lett** 1996 Nov 29;108(2):211–4

Caffeic acid phenethyl ester stimulates human antioxidant response element–mediated expression of the NAD(P)H:quinone oxidoreductase (NQO1) gene. Jaiswal AK, et al. **Cancer Res** 1997 Feb 1;57(3):440–6

Prooxidant activity of caffeic acid, dietary non–flavonoid phenolic acid, on Cu2+–induced low density lipoprotein oxidation. Yamanaka N, et al. **FEBS Lett** 1997 Mar 24; 405(2):186–90

Effects of endothelin A and B receptors on aqueous humor dynamics in the rabbit eye. Taniguchi T, et al. **J Ocul Pharmacol Ther** 1996 Summer;12(2):123–30

Echinacoside and caffeoyl conjugates protect collagen from free radical–induced degradation: a potential use of Echinacea extracts in the prevention of skin photodamage. Facino RM, et al. **Planta Med** 1995 Dec;61(6):510–4

Caffeic acid phenethyl ester is a potent and specific inhibitor of activation of nuclear transcription factor NF–kappa B. Natarajan K, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9090–5

[Anti–inflammatory effect of Urtica dioica folia extract in comparison to caffeic malic acid] Obertreis B, et al. **Arzneimittelforschung** 1996 Jan;46(1):52–6 (Eng. Abstr.) **(Ger)**

[Anterior chamber inflammation after the injection of endothelin–1 into the vitreous and the effect of ETA receptor antagonist] Shoji N, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr;101(4):305–11 (Eng. Abstr.) **(Jpn)**

TOXICITY

Effect of copper and iron ions on cytotoxicity induced by ascorbate, gallate and caffeate. Satoh K, et al. **Anticancer Res** 1997 May–Jun;17(3C):2181–4

Caffeic acid phenethyl ester inhibits proliferation of human keratinocytes and interferes with the EGF regulation of ornithine decarboxylase. Zheng ZS, et al. **Oncol Res** 1995; 7(9):445–52

CAFFEINE

Nicotine, caffeine and alcohol use in high– and low–dose benzodiazepine users. Lekka NP, et al. **Drug Alcohol Depend** 1997 May 2;45(3):207–12

Tobacco, caffeine, alcohol, and carpal tunnel syndrome in American industry. A cross–sectional study of 1464 workers. Nathan PA, et al. **J Occup Environ Med** 1996 Mar;38(3):290–8

Consumption of alcohol, nicotine, and caffeine among depressed outpatients. Relationship with response to treatment. Worthington J, et al. **Psychosomatics** 1996 Nov–Dec;37(6):518–22

ADMINISTRATION & DOSAGE

Relation of body mass and alcohol, nutrient, fiber, and caffeine intakes to blood pressure in the special intervention and usual care groups in the Multiple Risk Factor Intervention Trial. Stamler J, et al. **Am J Clin Nutr** 1997 Jan;65(1 Suppl):338S–365S

Caffeine as a stimulant against suicide [letter; comment] Szekely T. **Arch Intern Med** 1997 Jan 27;157(2):243–4. Comment on: Arch Intern Med 1996 Mar 11;156(5):521–5.

Different caffeine preparations [letter] Rasmussen KG, et al. **Convuls Ther** 1996 Sep;12(3):195–6

Human drug discrimination and multiple chemical sensitivity: caffeine exposure as an experimental model. Eissenberg T, et al. **Environ Health Perspect** 1997 Mar;105 Suppl 2:509–13 (21 ref.)

Caffeine consumption in hospitalized psychiatric patients. Rihs M, et al. **Eur Arch Psychiatry Clin Neurosci** 1996; 246(2):83–92

Caffeine self–administration in humans: 1. Efficacy of cola vehicle. Liguori A, et al. **Exp Clin Psychopharmacol** 1997 Aug;5(3):286–94

Caffeine self–administration in humans: 2. A within–subjects comparison of coffee and cola vehicles. Liguori A, et al. **Exp Clin Psychopharmacol** 1997 Aug;5(3):295–303

Caffeine restriction has no role in the management of patients with symptomatic idiopathic ventricular premature beats. Newby DE, et al. **Heart** 1996 Oct;76(4):355–7

Topical treatment of cutaneous herpes simplex virus–1 infection in mice with a specially formulated caffeine gel (Cafon). Yamamura J, et al. **J Dermatol Sci** 1996 Apr; 12(1):50–5

Preconceptual caffeine exposure increases glucose utilization and accelerates development in the preimplantation rat embryo. Loupis A, et al. **J Matern Fetal Med** 1996 Nov–Dec;5(6):321–7

Stress–like adrenocorticotropin responses to caffeine in young healthy men. Lovallo WR, et al. **Pharmacol Biochem Behav** 1996 Nov;55(3):365–9

[Comment on the contribution: "Usefulness of fixed analgesic combinations exemplified by thomapyrin" (letter; comment)] Hörl WH. **Wien Klin Wochenschr** 1997 Apr 11; 109(7):255–6. Comment on: Wien Klin Wochenschr 1996;108(8):219–33. **(Ger)**

[New caffeinated beverages. A pilot survey of familiarity and consumption by adolescents in North–Rhine Westphalia and Berlin and considerations of consumer protection] Viell B, et al. **Z Ernahrungswiss** 1996 Dec;35(4):378–86 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

The effect of decaffeination of coffee on gastro–oesophageal reflux in patients with reflux disease. Pehl C, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):483–6

Caffeine intake and delayed conception: a European multicenter study on infertility and subfecundity. European Study Group on Infertility Subfecundity. Bolúmar F, et al. **Am J Epidemiol** 1997 Feb 15;145(4):324–34

Effects of cigarette smoking, caffeine consumption, and alcohol intake on fecundability. Curtis KM, et al. **Am J Epidemiol** 1997 Jul 1;146(1):32–41

Caffeine intake and endogenous sex steroid levels in postmenopausal women. The Rancho Bernardo Study. Ferrini RL, et al. **Am J Epidemiol** 1996 Oct 1;144(7):642–4

Re: Effects of caffeine consumption on delayed conception. [letter] Leviton A. **Am J Epidemiol** 1996 Oct 15; 144(8):800–1

Re: Effects of caffeine consumption on delayed conception [letter; comment] Papathoma E. **Am J Epidemiol** 1996 Oct 15;144(8):799–800; discussion 801. Comment on: Am J Epidemiol 1995 Dec 15;142(12):1322–9.

Effect of caffeine intake during pregnancy on birth weight. Vlajinac HD, et al. **Am J Epidemiol** 1997 Feb 15; 145(4):335–8

Re: "Effects of caffeine consumption on delayed conception" [letter; comment] Weinberg CR, et al. **Am J Epidemiol** 1996 Oct 15;144(8):799; discussion 801. Comment on: Am J Epidemiol 1995 Dec 15;142(12):1322–9.

Postnatal caffeine effects on copper, zinc, and iron concentrations in mammary gland, milk, and plasma of lactating dams and their offspring. Rossowska MJ, et al. **Ann Nutr Metab** 1997;41(1):60–5

Caffeine and chronic back pain [see comments] McPartland JM, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):61–3. Comment in: Arch Phys Med Rehabil 1997 Jul;78(7):786.

Caffeine and chronic back pain [letter; comment] Sheetz DA. **Arch Phys Med Rehabil** 1997 Jul;78(7):786. Comment on: Arch Phys Med Rehabil 1997 Jan;78(1):61–3.

Caffeine and its effect on persons with mental disorders. Simmons DH. **Arch Psychiatr Nurs** 1996 Apr;10(2):116–22 (37 ref.)

Drug– and caffeine–induced headaches [letter] Shea PE. **CMAJ** 1997 Sep 1;157(5):510

Human drug discrimination and multiple chemical sensitivity: caffeine exposure as an experimental model. Eissenberg T, et al. **Environ Health Perspect** 1997 Mar;105 Suppl 2:509–13 (21 ref.)

A prospective study of alcohol, smoking, caffeine, and the risk of duodenal ulcer in men. Aldoori WH, et al. **Epidemiology** 1997 Jul;8(4):420–4

Maternal caffeine consumption and spontaneous abortion: a prospective cohort study. Dlugosz L, et al. **Epidemiology** 1996 May;7(3):250–5

Caffeinated beverages, decaffeinated coffee, and spontaneous abortion. Fenster L, et al. **Epidemiology** 1997 Sep; 8(5):515–23

Caffeine intake in relation to the risk of primary cardiac arrest. Weinmann S, et al. **Epidemiology** 1997 Sep; 8(5):505–8

Epileptic seizure during aspirin and caffeine withdrawal in a drug induced headache. Antonaci F, et al. **Funct Neurol** 1996 Nov–Dec;11(6):333–7

Somatic dysfunction increase during caffeine withdrawal. Reeves RR, et al. **J Am Osteopath Assoc** 1997 Aug; 97(8):454–6

Caffeine induces ventricular tachyarrhythmias possibly due to triggered activity in rabbits in vivo. Ishida S, et al. **Jpn Circ J** 1996 Mar;60(3):157–65

Is habitual caffeine use a preventable cardiovascular risk factor? James JE. **Lancet** 1997 Jan 25;349(9047):279–81 (30 ref.)

Is caffeine involved in the pathogenesis of combat–stress reaction? Iancu I, et al. **Mil Med** 1996 Apr;161(4):230–32 (14 ref.)

Caffeine: a model drug of abuse. **NIDA Res Monogr** 1996; 162:73–5

Effects of brief caffeinated–beverage deprivation on mood, symptoms, and psychomotor performance. Lane JD. **Pharmacol Biochem Behav** 1997 Sep;58(1):203–8

Silicone breast implants and drug–induced arthralgia [letter] Cadier MA, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1464

Caffeine reinforcement: the role of withdrawal. Schuh KJ, et al. **Psychopharmacology (Berl)** 1997 Apr;130(4):320–6

Human sperm morphometry and smoking, caffeine, and alcohol consumption. Vine MF, et al. **Reprod Toxicol** 1997 Mar–Jun;11(2–3):179–84

Coffee and cancer: a review of human and animal data. Nehlig A, et al. **World Rev Nutr Diet** 1996;79:185–221 (396 ref.)

[Nephrotoxicity of analgesic combination preparations (letter; comment)] Schwarz A. **Wien Klin Wochenschr** 1997 Apr 11;109(7):247–8; discussion 249–54. Comment on: Wien Klin Wochenschr 1996;108(8):219–33. **(Ger)**

[Coffee, caffeine and human pathophysiology (editorial)] Ravid M, et al. **Harefuah** 1997 Mar 2;132(5):334–6 **(Heb)**

[Caffeine and children] D'ius PB. **Vopr Pitan** 1997;(1):39–41 (Eng. Abstr.) **(Rus)**

ANALOGS & DERIVATIVES

Cerebral ischemia in gerbils: effects of acute and chronic treatment with adenosine A2A receptor agonist and antagonist. Von Lubitz DK, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):295–302

The therapeutic effect of a combination of cofpropamine, a caffeine derivative, and cyclophosphamide on the development of adjuvant arthritis of rats and collagen arthritis of mice. Kröger H, et al. **Gen Pharmacol** 1996 Oct;27(7):1215–8

On the high affinity of 8–cyclohexylcaffeine for the

presynaptic inhibitory adenosine receptor present in rat motor nerve terminals. Lobo MG, et al. **Pharmacol Toxicol** 1997 Jun;80(6):295–300

[The suppression of the repair of radio-induced DNA damage in Escherichia coli cells by indazolin derivatives and proksifein] Zhestianikov VD, et al. **Tsitologiia** 1996; 38(11):1203–10 (Eng. Abstr.) **(Rus)**

ANALYSIS

Clean method for the simultaneous determination of propyphenazone and caffeine in pharmaceuticals by flow injection Fourier transform infrared spectrometry. Bouhsain Z, et al. **Analyst** 1997 May;122(5):441–5

Caffeine content of fountain and private-label store brand carbonated beverages. Grand AN, et al. **J Am Diet Assoc** 1997 Feb;97(2):179–82

Isotopic effects on retention times of caffeine and its metabolites 1,3,7-trimethyluric acid, theophylline, theobromine and paraxanthine. Benchekroun Y, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):245–54

Gas chromatography–atomic emission detection for the measurement of isotopes. Application to bioequivalence studies. Elbast W, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1–2):115–22

Determination of caffeine and its metabolites by micellar electrokinetic capillary electrophoresis. Zhao Y, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):265–74

Simultaneous assay of phenylpropanolamine hydrochloride, caffeine, paracetamol, glycerylguaiacolate and chlorpheniramine maleate in Silabat tablet using HPLC with diode array detection. Indrayanto G, et al. **J Pharm Biomed Anal** 1995 Nov;13(12):1555–59

The measurement of caffeine concentration in scalp hair as an indicator of liver function. Mizuno A, et al. **J Pharm Pharmacol** 1996 Jun;48(6):660–4

Simultaneous determination of acetaminophen, dipyrone and caffeine in pharmaceutical preparations by the absorbance ratio technique. Doğan HN. **Pharmazie** 1996 Oct; 51(10):773–4

BLOOD

Relation of caffeine intake and blood caffeine concentrations during pregnancy to fetal growth: prospective population based study. Cook DG, et al. **BMJ** 1996 Nov 30; 313(7069):1358–62

[Development of syringe-type off line pre-column and simultaneous quantitation of four xanthine derivatives (caffeine, theobromine, theophylline and paraxanthine) in serum] Kouno Y, et al. **Yakugaku Zasshi** 1997 Mar; 117(3):178–84 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Stability of caffeine citrate injection in polypropylene syringes at room temperature [letter] Fraser BD. **Am J Health Syst Pharm** 1997 May 1;54(9):1106, 1108

Interaction of ibuprofen and indomethacin with caffeine. Khalil RM. **Pharmazie** 1996 Dec;51(12):970–3

DIAGNOSTIC USE

Lactic acid response to caffeine in panic disorder: comparison with social phobics and normal controls. Tancer ME, et al. **Anxiety** 1994–95;1(3):138–40

The use of caffeine as a metabolic probe for human drug metabolizing enzymes. Miners JO, et al. **Gen Pharmacol** 1996 Mar;27(2):245–9 (34 ref.)

METABOLISM

Caffeine as a metabolic probe: NAT2 phenotyping. Notarianni LJ, et al. **Br J Clin Pharmacol** 1996 Mar; 41(3):169–73

Theophylline has no advantages over caffeine as a putative model drug for assessing CYPIA2 activity in humans. Rasmussen BB, et al. **Br J Clin Pharmacol** 1997 Mar; 43(3):253–8

Correspondence re: S. H. McQuilkin et al., analysis of within-subject variation of caffeine metabolism when used to determine cytochrome P4501A2 and N-Acetyltransferase-2 activities. Cancer Epidemiol., Biomarkers & Prev., 4: 139–146, 1995 [letter] [see comments] Tang BK, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):231. Comment in: Cancer Epidemiol Biomarkers Prev 1996 Sep;5(9):757–8.

Kinetics of drug metabolism in rat liver slices. II. Comparison of clearance by liver slices and freshly isolated hepatocytes. Worboys PD, et al. **Drug Metab Dispos** 1996 Jun; 24(6):676–81

Deuterium isotope effects on caffeine metabolism. Benchekroun Y, et al. **Eur J Drug Metab Pharmacokinet** 1997 Apr–Jun; 22(2):127–33

Assays for CYP1A2 by testing in vivo metabolism of caffeine in humans. Tang BK, et al. **Methods Enzymol** 1996; 272:124–31

Evaluation of caffeine as a test drug for CYP1A2, NAT2 and CYP2E1 phenotyping in man by in vivo versus in vitro correlations. Fuhr U, et al. **Pharmacogenetics** 1996 Apr; 6(2):159–76

Caffeine urinary metabolite ratios as markers of enzyme activity: a theoretical assessment. Rostami-Hodjegan A, et al. **Pharmacogenetics** 1996 Apr;6(2):121–49

PHARMACOKINETICS

Comparative pharmacokinetics of caffeine and three metabolites in clinically normal horses and donkeys. Peck K, et al. **Am J Vet Res** 1997 Aug;58(8):881–4

Use of salivary caffeine tests to assess the inducer effect of a drug on hepatic metabolism. Soto J, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):736–9

Caffeine pharmacokinetics during hyperbaric hyperoxia in humans. Rump AF, et al. **Aviat Space Environ Med** 1997 Feb;68(2):142–6

The effects of 600 mg of slow release caffeine on mood and alertness. Sicard BA, et al. **Aviat Space Environ Med** 1996 Sep;67(9):859–62

Oxidation of caffeine to theobromine and theophylline is catalyzed primarily by flavin-containing monooxygenase in liver microsomes. Chung WG, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):685–8

Theoretical relationship between the post-administration time and plasma or urinary concentration of a metabolite and the unchanged drug. Administration of caffeine to horses. Aramaki S, et al. **Biol Pharm Bull** 1996 Oct; 19(10):1341–6

1-Methylxanthine derived from caffeine as a pharmacodynamic probe of oxypurinol effect. Birkett DJ, et al. **Br J Clin Pharmacol** 1997 Feb;43(2):197–200

Lack of inhibitory effect of cimetidine on caffeine metabolism in children using the caffeine breath test. Parker AC, et al. **Br J Clin Pharmacol** 1997 May;43(5):467–70

Predictors of N-acetyltransferase activity: should caffeine phenotyping and NAT2 genotyping be used interchangeably in epidemiological studies? Le Marchand L, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun; 5(6):449–55

Population pharmacokinetics of intravenous caffeine in neonates with apnea of prematurity. Lee TC, et al. **Clin Pharmacol Ther** 1997 Jun;61(6):628–40

Systemic clearance and demethylation of caffeine in sheep and cattle. Danielson TJ, et al. **Drug Metab Dispos** 1996 Oct;24(10):1058–61

Population pharmacokinetics of caffeine in premature neonates. Falcão AC, et al. **Eur J Clin Pharmacol** 1997; 52(3):211–7

Biotransformation of caffeine by cDNA-expressed human cytochromes P-450. Ha HR, et al. **Eur J Clin Pharmacol** 1996;49(4):309–15

Absorption rate of methylxanthines following capsules, cola and chocolate. Mumford GK, et al. **Eur J Clin Pharmacol** 1996;51(3–4):319–25

Pharmacokinetics of caffeine in the oestrogen-implanted ovariectomized ewe. Pollard I, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):113–7

Role of CYP1A2 in caffeine pharmacokinetics and metabolism: studies using mice deficient in CYP1A2. Buters JT, et al. **Pharmacogenetics** 1996 Aug;6(4):291–6

Influence of grapefruit juice on caffeine pharmacokinetics and pharmacodynamics. Maish WA, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1046–52

Pharmacokinetic responses to caffeine in volunteers with higher scores for neuroticism [letter] Meyer FP. **Psychopharmacology (Berl)** 1996 Aug;126(3):275–6

Saliva as a valid alternative to serum in monitoring intravenous caffeine treatment for apnea of prematurity. Lee TC, et al. **Ther Drug Monit** 1996 Jun;18(3):288–93

Population pharmacokinetics of caffeine in neonates and young infants. Thomson AH, et al. **Ther Drug Monit** 1996 Jun;18(3):245–53

PHARMACOLOGY

Effect of temperature variation (22 degrees C–44 degrees C) on halothane and caffeine contracture testing in normal humans. Antognini JF, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):639–42

The impact of caffeine use on tobacco cessation and withdrawal. Swanson JA, et al. **Addict Behav** 1997 Jan–Feb; 22(1):55–68

The effect of caffeine on cue exposure responses in ex-smokers. Hepple J, et al. **Addiction** 1996 Feb; 91(2):269–73

Carotid chemosensory response to caffeine in developing cats. Bairam A, et al. **Adv Exp Med Biol** 1996;410:79–82

The influence of antagonists of poly(ADP-ribose)polymerase on the activity of antirheumatic drugs on the development of adjuvant arthritis in rats and on the induction of tyrosine aminotransferase in the liver of rats. Kröger H, et al. **Adv Exp Med Biol** 1996;398:523–6

Caffeine and ischemia--effects on immediate early genes and adenosine receptors. Fredholm BB, et al. **Adv Neurol** 1996; 71:469–74

Hemodynamic effects of acute caffeine ingestion in young adults. Bender AM, et al. **Am J Cardiol** 1997 Mar 1; 79(5):696–9

Dietary caffeine intake and bone status of postmenopausal women. Lloyd T, et al. **Am J Clin Nutr** 1997 Jun; 65(6):1826–30

Caffeine elevates blood pressure response to exercise in mild hypertensive men. Sung BH, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1184–8

Effects of hyperoxia and caffeine on the expression of fragile site at Xq27.3. Rafi SK, et al. **Am J Med Genet** 1996 Feb 2;61(4):299–303

Acetylcholine and caffeine activate Cl- and suppress K+ conductances in human bronchial smooth muscle. Janssen LJ. **Am J Physiol** 1996 May;270(5 Pt 1):L772–81

Caffeine- and ryanodine-sensitive Ca2+ stores in cultured guinea pig myenteric neurons. Kimball BC, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G594–603

A caffeine-sensitive Ca2+ store modulates K+-evoked secretion in chromaffin cells. Lara B, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1211–21

Ethanol enhances caffeine-induced Ca2+-release channel activation in skeletal muscle sarcoplasmic reticulum. Oba T, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C622–7

BAY K 8644 and ClO4- potentiate caffeine contracture without Ca2+ release channel activation. Oba T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C41–7

Caffeine- and carbachol-induced Cl- and cation currents in single opossum esophageal circular muscle cells. Wang Q, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1725–34

Caffeine-induced chloride current in dissociated rat hepatocytes. Yamashita Y, et al. **Am J Physiol** 1996 Feb; 270(2 Pt 1):C508–13

Effects of caffeine on bone cells and bone development in fast-growing rats. Wink CS, et al. **Anat Rec** 1996 Sep; 246(1):30–8

The circulating concentrations of FSH, LH and prolactin in the oestradiol-implanted ovariectomized ewe treated with caffeine. Scaramuzzi RJ, et al. **Anim Reprod Sci** 1997 Jan;45(4):273–82

Effects of 9-methyl-7-bromoeudistomin D (MBED), a powerful Ca2+ releaser, on smooth muscles of the guinea pig. Imaizumi Y, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:546–9

Voltage-dependent block of L-type Ca channels by caffeine in smooth myocytes of the guinea pig urinary bladder. Yoshino M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:362–4

Inhibitory effect of six green tea catechins and caffeine on the growth of four selected human tumor cell lines. Valcic S, et al. **Anticancer Drugs** 1996 Jun;7(4):461–8

Dose-response effects of intravenous caffeine in normal volunteers. Nickell PV, et al. **Anxiety** 1994–95;1(4):161–8

Caffeine and cocaine interaction on memory consolidation in mice. Cestari V, et al. **Arch Int Pharmacodyn Ther** 1996 Jan–Feb;331(1):94–104

Quantitative measurement of the effects of caffeine and propranolol on surgeon hand tremor. Humayun MU, et al. **Arch Ophthalmol** 1997 Mar;115(3):371–4

Role of caffeine in combined analgesic drugs from the point of view of experimental pharmacology. Engelhardt G, et al. **Arzneimittelforschung** 1997 Aug;47(8):917–27

Effects of acetylsalicylic acid, paracetamol and caffeine and a combination of these substances on kidney glutathione levels. Engelhardt G, et al. **Arzneimittelforschung** 1996 May;46(5):513–8

Effect of acetylsalicylic acid, paracetamol, caffeine and a combination of these substances on the renal prostaglandin E2, 6-keto-prostaglandin F1 alpha, water, creatinine and electrolyte excretion of the rat. Engelhardt G. **Arzneimittelforschung** 1996 May;46(5):509–12

Caffeine- and inositol 1,4,5-trisphosphate-induced 45Ca2+ releases in the microsomes of tracheal epithelial cells. Kim YK, et al. **Biochem Biophys Res Commun** 1997 Jan 13; 230(2):247–50

Effect of caffeine on mucus secretion and agonist-dependent Ca2+ mobilization in human gastric mucus secreting cells. Hamada E, et al. **Biochim Biophys Acta** 1997 Apr 24; 1356(2):198–206

Caffeine decreases intracellular free Mg2+ in isolated adult rat ventricular myocytes. Li HY, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):61–8

Effects of caffeine and 3-isobutyl-1-methylxanthine on voltage-activated potassium currents in vertebrate neurones and secretory cells. Reiser MA, et al. **Br J Pharmacol** 1996 Aug;118(8):2145–51

A1 and A2A adenosine receptors and A1 mRNA in mouse brain: effect of long-term caffeine treatment. Johansson B, et al. **Brain Res** 1997 Jul 11;762(1–2):153–64

Caffeine and light effects on nighttime melatonin and temperature levels in sleep-deprived humans. Wright KP Jr, et al. **Brain Res** 1997 Jan 30;747(1):78–84

Neonatal caffeine alters passive avoidance retention in rats in an age- and gender-related manner. Fisher S, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):145–9

p53-null cells are more sensitive to ultraviolet light only in the presence of caffeine. DeFrank JS, et al. **Cancer Res** 1996 Dec 1;56(23):5365–8

Effects of tea, decaffeinated tea, and caffeine on UVB light-induced complete carcinogenesis in SKH-1 mice: demonstration of caffeine as a biologically important constituent of tea. Huang MT, et al. **Cancer Res** 1997 Jul 1;57(13):2623–9

Ca(2+)- and caffeine-induced Ca2+ release from the sarcoplasmic reticulum in rat skinned trabeculae: effects of pH and Pi. Kentish JC, et al. **Cardiovasc Res** 1997 Feb; 33(2):314–23

A caffeine/ryanodine-sensitive Ca2+ pool is involved in triggering spontaneous variations of Ca2+ in Jurkat T lymphocytes by a Ca(2+)-induced Ca2+ release (CICR) mechanism. Ricard I, et al. **Cell Signal** 1997 Feb; 9(2):197–206

Effects of caffeine and acetylcholine on glucose-stimulated insulin release from islet transplants in mice. Shi CL.

Cell Transplant 1997 Jan–Feb;6(1):33–7
Influence of caffeine and caffeine withdrawal on headache and cerebral blood flow velocities. Couturier EG, et al. **Cephalalgia** 1997 May;17(3):188–90
Differential effects of the Ca2+ sensitizers caffeine and CGP 48506 on the relaxation rate of rat skinned cardiac trabeculae. Palmer S, et al. **Circ Res** 1997 May;80(5):682–7
The effect of ephedrine plus caffeine on smoking cessation and postcessation weight gain. Nørregaard J, et al. **Clin Pharmacol Ther** 1996 Dec;60(6):679–86
Caffeine–resistance in S. pombe: mutations in three novel caf genes increase caffeine tolerance and affect radiation sensitivity, fertility, and cell cycle. Benko Z, et al. **Curr Genet** 1997 Jun;31(6):481–7
Caffeine induces S–phase apoptosis in cis–diamminedichloroplatinum–treated cells, whereas cis–diamminedichloroplatinum induces a block in G2/M. Shinomiya N, et al. **Cytometry** 1997 Apr 1;27(4):365–73
Caffeine induces cytochrome P4501A2: induction of CYP1A2 by tea in rats. Chen L, et al. **Drug Metab Dispos** 1996 May;24(5):529–33
Sleep latency measures of caffeine effects during sleep deprivation. Kelly TL, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 102(5):397–400
Caffeine effects on perceptual and motor processes. Lorist MM, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 102(5):401–13
Effects of caffeine ingestion on endurance racing in heat and humidity. Cohen BS, et al. **Eur J Appl Physiol** 1996; 73(3–4):358–63
Analgesic effects of propyphenazone in comparison to its combination with caffeine. Kraetsch HG, et al. **Eur J Clin Pharmacol** 1996;49(5):377–82
Comparative pharmacology between habitual and non–habitual coffee–drinkers: a practical class exercise in pharmacology [letter] Satoh H, et al. **Eur J Clin Pharmacol** 1997;52(3):239–40
Increased cardiovascular response to caffeine in perimenopausal women before and during estrogen therapy. Del Rio G, et al. **Eur J Endocrinol** 1996 Nov; 135(5):598–603
Relationship of plasma renin activity with caffeine intake and physical training in mild hypertensive men. HARVEST Study Group. Palatini P, et al. **Eur J Epidemiol** 1996 Oct; 12(5):485–91
Effect of caffeine coadministration and of nitric oxide synthesis inhibition on the antinociceptive action of ketorolac. López–Muñoz FJ, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):275–7
Determination of the effects of caffeine and carbamazepine on striatal dopamine release by in vivo microdialysis. Okada M, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):181–8
Caffeine antinociception: role of formalin concentration and adenosine A1 and A2 receptors. Sawynok J, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):105–11
Effects of N6–cyclopentyladenosine and caffeine on sleep regulation in the rat. Schwierin B, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):163–71
Susceptibility of caffeine– and Ins(1,4,5)P3–induced contractions to oxidants in permeabilized vascular smooth muscle. Wada S, et al. **Eur J Pharmacol** 1997 Feb 5; 320(1):51–9
Modulation in cell cycle and cyclin B1 expression in irradiated HeLa cells and normal human skin fibroblasts treated with staurosporine and caffeine. Narayanan PK, et al. **Exp Cell Res** 1997 May 25;233(1):118–27
Caffeine self–administration in humans: 1. Efficacy of cola vehicle. Liguori A, et al. **Exp Clin Psychopharmacol** 1997 Aug;5(3):286–94
Caffeine self–administration in humans: 2. A within–subjects comparison of coffee and cola vehicles. Liguori A, et al. **Exp Clin Psychopharmacol** 1997 Aug;5(3):295–303
Effect of caffeine on the mental calculation. Suenaga N, et al. **Fukuoka Igaku Zasshi** 1997 Feb;88(2):27–9
Low concentrations of caffeine raise intracellular calcium concentration only in the presence of extracellular calcium in cultured molluscan neurons. Ahmed IA, et al. **Gen Pharmacol** 1997 Feb;28(2):245–50
Inhibitory effect of caffeine on the response to carbachol in rat pancreatic acini. Grosflis K, et al. **Gen Pharmacol** 1996 Sep;27(6):1041–6
Cardiac mechanical and electrophysiologic modulations of guinea–pig by caffeine and thapsigargin. Nario K, et al. **Gen Pharmacol** 1996 Oct;27(7):1227–35
Effects of hydralazine on responses to histamine and caffeine in ileal longitudinal muscle and taenia coli of the guinea pig. Nasu T, et al. **Gen Pharmacol** 1997 Mar;28(3):421–5
Inhibitory effects of caffeine on Ca2+ influx and histamine secretion independent of cAMP in rat peritoneal mast cells. Teraoka H, et al. **Gen Pharmacol** 1997 Feb;28(2):237–43
Enhancement of 131I–mediated cytotoxicity by caffeine. Anderson LL, et al. **Gynecol Oncol** 1997 May;65(2):253–7
Probing tenability of biochemical vis–a–vis physicochemical interpretations of modulation of radiation damage by caffeine and cysteine in barley. Sah NK, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):384–90
Caffeine vs caffeine–free sports drinks: effects on urine production at rest and during prolonged exercise. Wemple RD, et al. **Int J Sports Med** 1997 Jan;18(1):40–6
In vitro human masseter muscle hypersensitivity: a possible explanation for increase in masseter tone. Adnet PJ, et al. **J Appl Physiol** 1996 May;80(5):1547–53
Effects of caffeine on carotid sinus nerve chemosensory discharge in kittens and cats. Bairam A, et al. **J Appl Physiol** 1997 Feb;82(2):413–8
Metabolic catecholamine, and endurance responses to caffeine during intense exercise. Jackman M, et al. **J Appl Physiol** 1996 Oct;81(4):1658–63
Caffeine counteracts the ergogenic action of muscle creatine loading. Vandenberghe K, et al. **J Appl Physiol** 1996 Feb; 80(2):452–7
Acute effects of caffeine ingestion at rest in humans with impaired epinephrine responses. Van Soeren M, et al. **J Appl Physiol** 1996 Mar;80(3):999–1005
The effects of caffeine on ambulatory blood pressure, heart rate, and mood in coffee drinkers. Green PJ, et al. **J Behav Med** 1996 Apr;19(2):111–28
Combined effects of caffeine and nicotine on cardiovascular hemodynamics in canine model. Jain AC, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):574–9
Central effects of caffeine on renal renin secretion and norepinephrine spillover. Tofovic SP, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):302–13
Effects of caffeine on the influx of extracellular calcium in GH4C1 pituitary cells. Karhapää L, et al. **J Cell Physiol** 1997 Apr;171(1):52–60
Ca2+ sensitivity and caffeine–induced changes in skinned cardiac muscle fibers of the carp, Cyprinus carpio. Chugun A, et al. **J Comp Physiol [B]** 1996;166(7):412–7
Illustrating caffeine's pharmacological and expectancy effects utilizing a balanced placebo design. Lotshaw SC, et al. **J Drug Educ** 1996;26(1):13–24
Effects of caffeine and cyclopiazonic acid on contractile proteins of adult and newborn ferret cardiac fibres. Bonnet V, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1287–95
Developmental differences and regional similarities in the responses of rat cardiac skinned muscles to acidosis, inorganic phosphate and caffeine. Palmer S, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):797–805
Caffeine enhances modulation of parasympathetic nerve activity in humans: quantification using power spectral analysis. Hibino G, et al. **J Nutr** 1997 Jul;127(7):1422–7
The effect of caffeine and caffeine analogs on rat liver phosphorylase a activity. Ercan–Fang N, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1312–8
Differential reinforcement of low rate performance, pharmacokinetics and pharmacokinetic–pharmacodynamic modeling: independent interaction of alprazolam and caffeine. Lau CE, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1013–29
Discriminative stimulus effects of zolpidem in pentobarbital–trained subjects: II. Comparison with triazolam and caffeine in humans. Rush CR, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):174–88
Activation of Ca2+ release by caffeine and voltage in frog skeletal muscle. Shirokova N, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):317–39
Caffeine enhances intramembranous charge movement in frog skeletal muscle by increasing cytoplasmic Ca2+ concentration. Shirokova N, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):341–56
Anxiogenic action of caffeine: an experimental study in rats. Bhattacharya SK, et al. **J Psychopharmacol (Oxf)** 1997; 11(3):219–24
Combination of bright light and caffeine as a countermeasure for impaired alertness and performance during extended sleep deprivation. Wright KP Jr, et al. **J Sleep Res** 1997 Mar;6(1):26–35
Inositol 1,4,5–trisphosphate– and caffeine–sensitive Ca(2+)–storing organelle in bovine adrenal chromaffin cells. Teraoka H, et al. **Jpn J Pharmacol** 1996 Dec; 72(4):307–15
Ca2+ release induced by rapid cooling and caffeine in ferret ventricular muscles. Tanaka E. **Jpn J Physiol** 1997 Jun; 47(3):263–72
Contribution of mitochondria to the removal of intracellular Ca2+ induced by caffeine and rapid cooling at low temperatures in ferret ventricular muscles. Tanaka E, et al. **Jpn J Physiol** 1997 Jun;47(3):251–62
Effects of caffeine and dbcAMP on zona pellucida penetration by epididymal spermatozoa of cynomolgus monkeys (Macaca fascicularis). Mahony MC, et al. **Mol Reprod Dev** 1996 Apr;43(4):530–5
HSP72 expression in malignant hyperthermia and normal muscle following exposure to caffeine and halothane [letter] Brooksbank R, et al. **Muscle Nerve** 1997 Jan;20(1):123
Selective radiosensitization of p53–deficient cells by caffeine–mediated activation of p34cdc2 kinase. Yao SL, et al. **Nat Med** 1996 Oct;2(10):1140–3
Caffeine alters plasma adenosine levels [letter] Conlay LA, et al. **Nature** 1997 Sep 11;389(6647):136
Overcoming of P–glycoprotein mediated vincristine resistance of L1210/VCR mouse leukemic cells could be induced by pentoxifyline but not by theophylline and caffeine. Stefanková Z, et al. **Neoplasma** 1996;43(1):11–5
5–Hydroxytryptamine–evoked [Ca2+]i oscillations in rat C6 glioma cells. Cholewinski AJ, et al. **Neurochem Int** 1996 May–Jun;28(5–6):583–9
Concurrent elevation of the levels of expression of striatal preproenkephalin and preprodynorphin mRNA in the rat brain by chronic treatment with caffeine. Datta U, et al. **Neurosci Lett** 1997 Aug 1;231(1):29–32
Accumulation of tyrosine hydroxylase messenger RNA molecules in the rat mesencephalon by chronic caffeine treatment. Datta U, et al. **Neurosci Lett** 1996 Dec 13; 220(2):77–80
Caffeine reduces the efficacy of electroreceptor cell synapses: an electrophysiological single–unit in vivo study. Peters RC, et al. **Neuroscience** 1997 Jun;78(4):1229–38
Gradual caffeine–induced Ca2+ release in mouse dorsal root ganglion neurons is controlled by cytoplasmic and luminal Ca2+. Shmigol A, et al. **Neuroscience** 1996 Aug; 73(4):1061–7
Antagonism of adenosine A2A receptors underlies the behavioural activating effect of caffeine and is associated with reduced expression of messenger RNA for NGFI–A and NGFI–B in caudate–putamen and nucleus accumbens. Svenningsson P, et al. **Neuroscience** 1997 Aug;79(3):753–64
The effect of caffeine on pregnancy outcome variables. Hinds TS, et al. **Nutr Rev** 1996 Jul;54(7):203–7 (32 ref.)
Changes in formalin–evoked spinal Fos expression and nociceptive behaviour after oral administration of Bufferin A (aspirin) and L–5409709 (ibuprofen + caffeine + paracetamol). Carrive P, et al. **Pain** 1997 Apr; 70(2–3):253–66
Effects of caffeine– and sugar–free beverages on psychomotor performance. Meliska CJ, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):912–4
Caffeine enhances initial but not extended learning of a proprioceptive–based discrimination task in nonsmoking moderate users. Miller LS, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):891–8
Caffeine–evoked contractures in single slow (tonic) muscle fibres of the frog (Rana temporaria and R. esculenta). Hoock C, et al. **Pflugers Arch** 1996 Jun;432(2):207–14
The contribution of the sarcoplasmic reticulum Ca2+–transport ATPase to caffeine–induced Ca2+ transients of murine skinned skeletal muscle fibres. Makabe M, et al. **Pflugers Arch** 1996 Aug;432(4):717–26
A fluvoxamine–caffeine interaction study. Jeppesen U, et al. **Pharmacogenetics** 1996 Jun;6(3):213–22
Effects of caffeine, practice, and mode of presentation on Stroop task performance. Edwards S, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):309–15
The role of dopamine in the behavioral effects of caffeine in animals and humans. Garrett BE, et al. **Pharmacol Biochem Behav** 1997 Jul;57(3):533–41 (125 ref.)
Chronic caffeine and the anticonvulsant potency of antiepileptic drugs against maximal electroshock. Gasior M, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):639–44
Effects of nifedipine and Bay K 8644 on the R–PIA and caffeine–induced changes in the locomotor activity of rats. Eroglu L, et al. **Pharmacol Res** 1996 Feb;33(2):141–4
Metabolic and hormone–related responses to caffeine in rats. Leblanc J, et al. **Pharmacol Res** 1995 Sep;32(3):129–33
Influence of grapefruit juice on caffeine pharmacokinetics and pharmacodynamics. Maish WA, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1046–52
Interaction of ibuprofen and indomethacin with caffeine. Khalil RM. **Pharmazie** 1996 Dec;51(12):970–3
Conditioned flavour preferences reinforced by caffeine consumed after lunch. Richardson NJ, et al. **Physiol Behav** 1996 Jul;60(1):257–63
Locomotor activity pattern induced by diazepam in control and caffeine–treated mice. Sansone M, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):387–92
Prostaglandin production by guinea–pig endometrial cells: effects of caffeine and other modulators of intracellular calcium. Naderali EK, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 May; 56(5):403–16
Effects of caffeine and theophylline on prostaglandin production by guinea–pig endometrium. Naderali EK, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jan; 56(1):63–7
Effects of caffeine on event–related potentials: comparison of oddball with single–tone paradigms. Kawamura N, et al. **Psychiatry Clin Neurosci** 1996 Aug;50(4):217–21
Oral caffeine pretreatment produced modest increases in smoked cocaine self–administration in rhesus monkeys. Comer SD, et al. **Psychopharmacology (Berl)** 1996 Aug; 126(4):281–5
Alprazolam, caffeine and their interaction: relating DRL performance to pharmacokinetics. Lau CE, et al. **Psychopharmacology (Berl)** 1996 Jul;126(2):115–24
Acute and repeated exposure to caffeine: effects on reinstatement of extinguished cocaine–taking behavior in rats. Schenk S, et al. **Psychopharmacology (Berl)** 1996 Jul; 126(1):17–23
Counteracting driver sleepiness: effects of napping, caffeine, and placebo. Horne JA, et al. **Psychophysiology** 1996 May; 33(3):306–9
Effect of caffeine on gamma–ray induced G2 arrest in well–synchronized Chinese hamster ovary cells in vitro. Masunaga S, et al. **Radiat Med** 1996 Nov–Dec;14(6):309–13
Caffeine–induced apoptosis reveals a persistent lesion after treatment with bromodeoxyuridine and ultraviolet–B light. Hagan MP, et al. **Radiat Res** 1997 Jun;147(6):674–9
Combined effects of caffeine and alcohol during pregnancy on bones in newborn rats. Case TS, et al. **Res Exp Med (Berl)** 1996;196(3):179–85
Caffeine and endurance performance. Tarnopolsky MA. **Sports Med** 1994 Aug;18(2):109–25 (149 ref.)
A–band movement and junctional gap dissociation during caffeine–induced contracture of skeletal muscle fibers.

Yoshioka T, et al. **Tokai J Exp Clin Med** 1995 Jul; 20(2):99–108

Caffeine overrides the S-phase cell cycle block in sea urchin embryos. Patel R, et al. **Zygote** 1997 May;5(2):127–38

[Effect of chlorocresol vs caffeine on muscle contracture in malignant hyperthermia susceptible patients] Ben-Abraham R, et al. **Harefuah** 1997 Jun 15;132(12):839–41, 911 (Eng. Abstr.) **(Heb)**

[The suppression of the repair of radio-induced DNA damage in Escherichia coli cells by indazolin derivatives and proksifein] Zhestianikov VD, et al. **Tsitologiia** 1996; 38(11):1203–10 (Eng. Abstr.) **(Rus)**

[The effect of Val'kofen tablets for children on the function of the gastrointestinal tract and liver in an experiment] Shapovalova VO. **Fiziol Zh** 1995 Sep–Dec;41(5–6):111–6 (Eng. Abstr.) **(Ukr)**

POISONING

Myocardial infarction resulting from caffeine overdose in an anorectic woman. Forman J, et al. **Ann Emerg Med** 1997 Jan;29(1):178–80

Intentional caffeine poisoning in an infant. Rivenes SM, et al. **Pediatrics** 1997 May;99(5):736–8 (21 ref.)

Acute caffeine ingestion fatalities: management issues. Shum S, et al. **Vet Hum Toxicol** 1997 Aug;39(4):228–30 (13 ref.)

[Maternal environment and developmental brain damages] Tanaka H. **No To Hattatsu** 1997 May;29(3):183–9 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Analgesic efficacy of paracetamol and its combination with codeine and caffeine in surgical pain--a meta-analysis. Zhang WY, et al. **J Clin Pharm Ther** 1996 Aug;21(4):261–82

Efficacy of Cafon gel on cutaneous infection with herpes simplex virus (HSV)-2 and acyclovir-resistant HSV in mice. Yoshida Y, et al. **J Dermatol Sci** 1996 Dec; 13(3):237–41

Prophylactic intravenous administration of caffeine and recovery after ambulatory surgical procedures. Weber JG, et al. **Mayo Clin Proc** 1997 Jul;72(7):621–6

Ibuprofen compared with ibuprofen plus caffeine after third molar surgery. McQuay HJ, et al. **Pain** 1996 Aug; 66(2–3):247–51

Saliva as a valid alternative to serum in monitoring intravenous caffeine treatment for apnea of prematurity. Lee TC, et al. **Ther Drug Monit** 1996 Jun;18(3):288–93

[Analgesic effect and clinical tolerability of the combination of paracetamol 500 mg and caffeine 50 mg versus paracetamol 400 mg and dextropropoxyphene 30 mg in back pain] Kuntz D, et al. **Presse Med** 1996 Sep 7; 25(25):1171–4 (Eng. Abstr.) **(Fre)**

[Vasobral in the treatment of initial atherosclerotic circulatory encephalopathy] Shprakh VV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(2):39–40 **(Rus)**

[Caffetin in the treatment of neck pain and lumbago-sciatica] Vornovskaia OV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(4):48–9 (Eng. Abstr.) **(Rus)**

TOXICITY

Caffeine and cardiac arrhythmias. An experimental study in dogs with review of literature. Mehta A, et al. **Acta Cardiol** 1997;52(3):273–83 (31 ref.)

Studies on the chronic oral toxicity of an analgesic drug combination consisting of acetylsalicylic acid, paracetamol and caffeine in rats including an electron microscopical evaluation of kidneys. Lehmann H, et al. **Arzneimittelforschung** 1996 Sep;46(9):895–905

Hippocampal neurons are damaged by caffeine-augmented electroshock seizures [see comments] Enns M, et al. **Biol Psychiatry** 1996 Oct 1;40(7):642–7. Comment in: Biol Psychiatry 1997 May 1;41(9):991–2.

Flawed model of caffeine effects on electroconvulsive therapy [letter; comment] Swartz CM. **Biol Psychiatry** 1997 May 1;41(9):991–2. Comment on: Biol Psychiatry 1996 Oct 1;40(7):642–7.

CYP1A2 activity, gender and smoking, as variables influencing the toxicity of caffeine. Carrillo JA, et al. **Br J Clin Pharmacol** 1996 Jun;41(6):605–8

Differences in sensitivity to developmental toxicants as seen in Xenopus and Pimephales embryos. DeYoung DJ, et al. **Bull Environ Contam Toxicol** 1996 Jan;56(1):143–50

Reproductive toxicology. Caffeine. **Environ Health Perspect** 1997 Feb;105 Suppl 1:279–80

Reproductive toxicology. Caffeine. **Environ Health Perspect** 1997 Feb;105 Suppl 1:281–2

Delayed effects of ethanol, caffeine and nicotine assessed by wheel-running and drinking in mice. Kuribara H, et al. **J Toxicol Sci** 1995 Nov;20(5):595–602

Early myocardial lesions induced by cardiotoxic compounds in Sprague-Dawley rats. Kemi M, et al. **J Vet Med Sci** 1996 Jul;58(7):699–702

Potentiation of pyridostigmine bromide toxicity in mice by selected adrenergic agents and caffeine. Chaney LA, et al. **Vet Hum Toxicol** 1997 Aug;39(4):214–9

[An evaluation of the chronic toxicity of the new preparation val'kofen for children] Shapovalova VA, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):47–50 (Eng. Abstr.) **(Rus)**

[Induction of cytogenetic damage in Chinese hamster cells after combined exposure to low doses of gamma-radiation and various chemical and physical agents] Zaichkina SI, et al. **Genetika** 1996 Dec;32(12):1721–4 (Eng. Abstr.) **(Rus)**

URINE

Correspondence re: letter to the editor by B. K. Tang and W. Kalow on CYP1A2 phenotyping using caffeine. Cancer Epidemiol. Biomarkers & Prev., 5: 231, 1996 [letter; comment] Kadlubar FF, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):757–8. Comment on: Cancer Epidemiol Biomarkers Prev 1996 Mar;5(3):231.

Caffeine urinary metabolite ratios as markers of enzyme activity: a theoretical assessment. Rostami-Hodjegan A, et al. **Pharmacogenetics** 1996 Apr;6(2):121–49

Determination of urinary metabolites of caffeine for the assessment of cytochrome P4501A2, xanthine oxidase, and N-acetyltransferase activity in humans. Rasmussen BB, et al. **Ther Drug Monit** 1996 Jun;18(3):254–62

CAFFEY-DE TONI-SILVERMANN SYNDROME see **HYPEROSTOSIS, CORTICAL, CONGENITAL**

CAIMANS see **ALLIGATORS AND CROCODILES**

CAISSON DISEASE see **DECOMPRESSION SICKNESS**

CALCANEUS

Sever's disease and other causes of heel pain in adolescents. Madden CC, et al. **Am Fam Physician** 1996 Nov 1; 54(6):1995–2000

Infracalcaneal heel pain in the athlete. Agostinelli J, et al. **Clin Podiatr Med Surg** 1997 Jul;14(3):503–9 (14 ref.)

Plantar heel pain in the adult. Hurwitz SH. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):81–3, 86–8, 91–2

Chondromyxoid fibroma. Baron RL, et al. **J Am Podiatr Med Assoc** 1996 May;86(5):212–6

Bilateral interosseous lipoma of the calcaneus [letter] Niemi WJ, et al. **J Am Podiatr Med Assoc** 1997 Apr;87(4):189–91

Unusual presentation of calcaneal osteomyelitis. Twenty-five years after inoculation. Rogoff RS, et al. **J Am Podiatr Med Assoc** 1997 Mar;87(3):125–30

Unicameral bone cyst. An unusual complication. Yoho RM, et al. **J Am Podiatr Med Assoc** 1996 May;86(5):236–8

Chondroblastoma of the calcaneus: literature review and case presentation. Blitch E, et al. **J Foot Ankle Surg** 1996 May-Jun;35(3):250–4

Intraosseous lipoma of the calcaneus: a clinicopathologic study of three cases. Gonzalez JV, et al. **J Foot Ankle Surg** 1997 Jul–Aug;36(4):306–10; discussion 329

Cutaneous rhinosporidiosis. Mitra K, et al. **J Indian Med Assoc** 1996 Feb;94(2):84

Enthesopathy in leprosy. Carpintero-Benítez P, et al. **J Rheumatol** 1996 Jun;23(6):1020–1

Intra-osseous lipoma of the calcaneus [letter] Muthuphei MN. **S Afr Med J** 1996 Dec;86(12):1554–5

Malignant hemangioendothelioma of the left calcaneus associated with fever and hematological abnormalities. Rong Y, et al. **Skeletal Radiol** 1997 Jan;26(1):64–6

Primary lymphoma of the calcaneus. White LM, et al. **Skeletal Radiol** 1996 Nov;25(8):775–8

[Malignant transformation of multiple chondroma. Apropos of a case] Dujardin F, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(2):160–3 (Eng. Abstr.) **(Fre)**

[A rare entity: intraosseous synovial cyst of the calcaneus] Mestdagh H, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):274–7 (Eng. Abstr.) **(Fre)**

[Shockwave treatment of therapy refractory soft tissue pain] Boxberg W, et al. **Chirurg** 1996 Nov;67(11):1174–8 (Eng. Abstr.) **(Ger)**

ABNORMALITIES

Unilateral hypoplasia of the calcaneus associated with other abnormalities. A new entity? Theodorou SD, et al. **Acta Orthop Belg** 1996 Sep;62(3):165–7

[What is your diagnosis? Calcaneo-navicular coalition] Keller N. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1099–101 **(Ger)**

ANATOMY & HISTOLOGY

Magnetic resonance imaging of the calcaneus: preliminary assessment of trabecular bone-dependent regional variations in marrow relaxation time compared with dual X-ray absorptiometry. Guglielmi G, et al. **Acad Radiol** 1996 Apr;3(4):336–43

Achilles tendon insertion: an in vitro anatomic study. Chao W, et al. **Foot Ankle Int** 1997 Feb;18(2):81–4

Components of the posterior calcaneal facet: anatomic and radiologic evaluation. Ebraheim NA, et al. **Foot Ankle Int** 1996 Dec;17(12):751–7

Sex determination by discriminant analysis of calcanei measurements. Introna F Jr, et al. **J Forensic Sci** 1997 Jul; 42(4):725–8

Field strength and angle dependence of trabecular bone marrow transverse relaxation in the calcaneus. Song HK, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):382–8

BLOOD SUPPLY

Achilleo-calcaneal vascular network. Sanz-Hospital FJ, et al. **Foot Ankle Int** 1997 Aug;18(8):506–9

DRUG EFFECTS

Treatment of bacterial tarsal tenosynovitis and osteitis of the sustentaculum tali of the calcaneus in five horses. Santschi EM, et al. **Equine Vet J** 1997 May;29(3):244–7

INJURIES

Bilateral stress-fracture of the calcaneal tubercle. Rosted A, et al. **Acta Orthop Belg** 1997 Mar;63(1):43–5

Bone-cement fixation for calcaneus fracture--a report on 2 elderly patients. Kiyoshige Y, et al. **Acta Orthop Scand** 1997 Aug;68(4):408–9

Results of closed intra-articular calcaneal fractures treated with early mobilisation and without reduction. Low CK, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):820–2

The great saphenous vein fasciocutaneous island flap for immediate calcaneal wound reconstruction. Isenberg JS. **Ann Plast Surg** 1997 Aug;39(2):193–5

A neglected avulsion fracture of calcaneal tuberosity associated with diabetes mellitus: a case report. Itokazu M, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):277–80

Imaging of calcaneal fractures. Born CT, et al. **Clin Podiatr Med Surg** 1997 Apr;14(2):337–56 (33 ref.)

Rapid prototyping (stereolithography) in the management of intra-articular calcaneal fractures. Kacl GM, et al. **Eur Radiol** 1997;7(2):187–91

Fractures of the calcaneus [letter; comment] Allon SM. **Foot Ankle Int** 1996 Nov;17(11):720. Comment on: Foot Ankle Int 1996 Apr;17(4):230–5.

Subtalar arthrodesis using interposition iliac crest bone graft after calcaneal fracture. Amendola A, et al. **Foot Ankle Int** 1996 Oct;17(10):608–14

Primary subtaler arthrodesis for the treatment of comminuted calcaneal fractures. Buch BD, et al. **Foot Ankle Int** 1996 Feb;17(2):61–70

A pitfall of coronal computed tomographic imaging and evaluation of calcaneal fractures [letter] Burdeaux BD Jr. **Foot Ankle Int** 1997 Mar;18(3):189

Calcaneocuboid joint involvement in calcaneal fractures. Ebraheim NA, et al. **Foot Ankle Int** 1996 Sep;17(9):563–5

Ipsilateral fractures of the talus and calcaneus. Gregory P, et al. **Foot Ankle Int** 1996 Nov;17(11):701–5

Calcaneal osteomyelitis caused by nail puncture wounds. Laughlin RT, et al. **Foot Ankle Int** 1997 Sep;18(9):575–7

Displaced intra-articular calcaneus fractures treated with the Galveston plate. Laughlin RT, et al. **Foot Ankle Int** 1996 Feb;17(2):71–8

Fractures of the calcaneus. Part II: Treatment. Lowery RB, et al. **Foot Ankle Int** 1996 Jun;17(6):360–6 (44 ref.)

Calcaneal malunions: results of a prognostic computed tomography classification system. Stephens HM, et al. **Foot Ankle Int** 1996 Jul;17(7):395–401

Operative vs. nonoperative treatment of intra-articular fractures of the calcaneus: a prospective randomized trial [letter] Stephens MM. **Foot Ankle Int** 1996 Oct;17(10):653

A pitfall of coronal computed tomographic imaging and evaluation of calcaneal fractures [letter; comment] Thordarson DB. **Foot Ankle Int** 1997 Mar;18(3):189. Comment on: Foot Ankle Int 1996 Aug;17(8):503–5.

Operative vs. nonoperative treatment of intra-articular fractures of the calcaneus: a prospective randomized trial. Thordarson DB, et al. **Foot Ankle Int** 1996 Jan;17(1):2–9

Calcaneal fracture with peroneal impingement and tendon dysfunction. Wright DG, et al. **Foot Ankle Int** 1996 Oct; 17(10):650

This is proper management? [letter; comment] Sanders SP. **Hosp Pract (Off Ed)** 1997 May 15;32(5):25–6. Comment on: Hosp Pract (Off Ed) 1997 Mar 15;32(3):243.

Intra-articular fractures of the calcaneum: why such controversy? Eastwood DM, et al. **Injury** 1997 May; 28(4):247–59 (96 ref.)

Salvage procedures for calcaneus fractures. Sangeorzan BJ. **Instr Course Lect** 1997;46:339–46 (13 ref.)

What is your diagnosis? Avulsion fracture of the calcaneus at the attachment of the long lateral collateral ligament of the tarsus. Goodrich LR, et al. **J Am Vet Med Assoc** 1997 May 1;210(9):1277–8

Calcaneal fractures cause a lateral load shift in Chopart joint contact stress and plantar pressure pattern in vitro. Rosenbaum D, et al. **J Biomech** 1996 Nov;29(11):1435–43

Functional outcome measures after displaced intra-articular calcaneal fractures. Hildebrand KA, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):119–23

Surgical management of the acute calcaneal depression fracture, the VAMC Miami experience [letter] Cohen M. **J Foot Ankle Surg** 1996 May-Jun;35(3):269–70

Surgical management of the acute calcaneal joint depression fracture: the VAMC Miami experience. Cohen M. **J Foot Ankle Surg** 1996 Jan–Feb;35(1):2–12 (32 ref.)

The use of a calcaneal reconstruction plate in intra-articular calcaneal fractures. Frankel JP, et al. **J Foot Ankle Surg** 1996 Jul–Aug;35(4):318–30; discussion 370 (38 ref.)

Intraarticular calcaneus fractures: a biomechanical comparison or two fixation methods. Bailey EJ, et al. **J Orthop Trauma** 1997 Jan;11(1):34–7

Avulsion fracture of the calcaneus: report of a case using a new tension band technique. Levi N, et al.

J Orthop Trauma 1997 Jan;11(1):61–2

Open reduction and internal fixation of the calcaneus using minifragment plates. Tornetta P 3d. **J Orthop Trauma** 1996; 10(1):63–7

Computed tomographic evaluation of calcaneal fractures. Haygood TM, et al. **J South Orthop Assoc** 1997 Spring; 6(1):62–8

Calcaneal fractures: operative versus nonoperative treatment [letter; comment] Agnew SG. **J Trauma** 1997 Mar;42(3):571 . Comment on: J Trauma 1996 Nov;41(5):839–45.

Calcaneal fractures: operative versus nonoperative treatment [see comments] Kundel K, et al. **J Trauma** 1996 Nov; 41(5):839–45. Comment in: J Trauma 1997 Mar;42(3):571.

An unusual lawn mower injury. Logar M, et al. **Unfallchirurg** 1996 Feb;99(2):152–3

[Surgical treatment of (selected) calcaneal fractures] Palarčík J, et al. **Rozhl Chir** 1997 May;76(5):231–8 (Eng. Abstr.) **(Cze)**

[Aponeurotomy and degenerative lesions of the plantar aponeurosis. Contribution of magnetic imaging] Jardé O, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(7):629–35 (Eng. Abstr.) **(Fre)**

[The "low contact plate" for stabilizing the dislocated intra-articular calcaneus fractures] Bauer G, et al. **Chirurg** 1996 Nov;67(11):1129–34 (Eng. Abstr.) **(Ger)**

[Dwyer osteotomy with or without lateral stabilization in calcaneus varus with lateral ligament insufficiency of the upper ankle joint] Csizy M, et al. **Sportverletz Sportschaden** 1996 Dec;10(4):100–2 (Eng. Abstr.) **(Ger)**

[Functional deficits of the foot after calcaneus fracture] Rosenbaum D, et al. **Sportverletz Sportschaden** 1996 Jun; 10(2):32–7 (Eng. Abstr.) **(Ger)**

[Injuries of the talus and calcaneus] Brunner U, et al. **Unfallchirurg** 1996 Feb;99(2):136–51 (10 ref.) **(Ger)**

[Gait analysis after intra-articular calcaneus fractures] Siegmeth A, et al. **Unfallchirurg** 1996 Jan;99(1):52–8 (Eng. Abstr.) **(Ger)**

[Fractures of the calcaneus--new trends in management] Rath E, et al. **Harefuah** 1997 Mar 16;132(6):424–7 (16 ref.) **(Heb)**

[Early results of treatment for a comminuted articular fracture of the calcaneus using a "DERO" fixator] Król R. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):479–85 (Eng. Abstr.) **(Pol)**

METABOLISM

Bone mineral density of vertebrae, proximal femur and os calcis in normal Greek subjects as assessed by dual-energy X-ray absorptiometry: comparison with other populations. Hadjidakis D, et al. **Eur J Clin Invest** 1997 Mar; 27(3):219–27

Measurements of permeability in human calcaneal trabecular bone. Grimm MJ, et al. **J Biomech** 1997 Jul;30(7):743–5

Calcaneal bone mineral density predicts fracture occurrence: a five-year follow-up study in elderly people. Cheng S, et al. **J Bone Miner Res** 1997 Jul;12(7):1075–82

PATHOLOGY

Intraosseous lipoma of the calcaneus. Greenspan A, et al. **Foot Ankle Int** 1997 Jan;18(1):53–6 (26 ref.)

The calcaneus: applications of magnetic resonance imaging. Yu JS, et al. **Foot Ankle Int** 1996 Dec;17(12):771–80

Monostotic Paget's disease of the calcaneum [letter] Roulot B, et al. **J Rheumatol** 1996 Jul;23(7):1315–6

PHYSIOLOGY

Adaptive changes in trabecular architecture in relation to functional strain patterns and disuse. Biewener AA, et al. **Bone** 1996 Jul;19(1):1–8

In vitro assessment of the relationship between acoustic properties and bone mass density of the calcaneus by comparison of ultrasound parametric imaging and quantitative computed tomography. Laugier P, et al. **Bone** 1997 Feb;20(2):157–65

Male and female normative data for ultrasound measurement of the calcaneus within the UK adult population. Langton CM, et al. **Br J Radiol** 1997 Jun;70(834):580–5 (14 ref.)

Ultrasound velocity and broadband attenuation as predictors of load-bearing capacities of human calcanei. Han S, et al. **Calcif Tissue Int** 1997 Jan;60(1):21–5

The hock as a potential site for non-invasive bone measurement. Scotti E, et al. **Equine Vet J Suppl** 1988 Sep; (6):93–8

Densitometric analysis of the human calcaneus. Fernandez Camacho FJ, et al. **J Anat** 1996 Aug;189 (Pt 1):205–9

Measurements of permeability in human calcaneal trabecular bone. Grimm MJ, et al. **J Biomech** 1997 Jul;30(7):743–5

Effect of physical activity as a caddie on ultrasound measurements of the Os calcis: a cross-sectional comparison. Hoshino H, et al. **J Bone Miner Res** 1996 Mar; 11(3):412–8

[Analysis of processes of elevating calcaneum bone stiffness in young women--from the view point of their life-style] Shiga N, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Nov;48(11):1085–92 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Brisk walking reduces calcaneal bone loss in post-menopausal women. Brooke-Wavell K, et al. **Clin Sci (Colch)** 1997 Jan; 92(1):75–80

RADIOGRAPHY

Magnetic resonance imaging of the calcaneus: preliminary assessment of trabecular bone-dependent regional variations in marrow relaxation time compared with dual X-ray absorptiometry. Guglielmi G, et al. **Acad Radiol** 1996 Apr;3(4):336–43

High resolution magnetic resonance imaging of the calcaneus: age-related changes in trabecular structure and comparison with dual X-ray absorptiometry measurements. Ouyang X, et al. **Calcif Tissue Int** 1997 Feb;60(2):139–47

Imaging of calcaneal fractures. Born CT, et al. **Clin Podiatr Med Surg** 1997 Apr;14(2):337–56 (33 ref.)

Rapid prototyping (stereolithography) in the management of intra-articular calcaneal fractures. Kacl GM, et al. **Eur Radiol** 1997;7(2):187–91

A pitfall of coronal computed tomographic imaging and evaluation of calcaneal fractures [letter] Burdeaux BD Jr. **Foot Ankle Int** 1997 Mar;18(3):189

Components of the posterior calcaneal facet: anatomic and radiologic evaluation. Ebraheim NA, et al. **Foot Ankle Int** 1996 Dec;17(12):751–7

A pitfall of coronal computed tomographic imaging in evaluation of calcaneal fractures [see comments] Ebraheim NA, et al. **Foot Ankle Int** 1996 Aug;17(8):503–5. Comment in: Foot Ankle Int 1997 Mar;18(3):189.

A pitfall of coronal computed tomographic imaging and evaluation of calcaneal fractures [letter; comment] Thordarson DB. **Foot Ankle Int** 1997 Mar;18(3):189. Comment on: Foot Ankle Int 1996 Aug;17(8):503–5.

Estimation of sex on the basis of radiographs of the calcaneus. Riepert T, et al. **Forensic Sci Int** 1996 Feb 9;77(3):133–40

Grand rounds: Haglund's deformity and retrocalcaneal intratendinous spurring [letter; comment] Grossman AB. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):70. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):362–8.

Dual energy X-ray absorptiometry in reflex sympathetic dystrophy [letter; comment] Lovy MR, et al. **J Rheumatol** 1997 Apr;24(4):812–4. Comment on: J Rheumatol 1996 Sep;23(9):1557–9.

Monostotic Paget's disease of the calcaneum [letter] Roulot B, et al. **J Rheumatol** 1996 Jul;23(7):1315–6

Computed tomographic evaluation of calcaneal fractures. Haygood TM, et al. **J South Orthop Assoc** 1997 Spring; 6(1):62–8

A new computerised method for the assessment of skeletal maturity in the newborn infant. Argemi J, et al. **Pediatr Radiol** 1997 Apr;27(4):309–14

Anisotropy measurements obtained by fractal analysis of trabecular bone at the calcaneus and radius. Lespessailles E, et al. **Rev Rhum Engl Ed** 1996 May;63(5):337–43

[Intraosseus lipoma of the calcaneus. Assessment of a case with computerized tomography] Neri E, et al. **Radiol Med (Torino)** 1996 Oct;92(4):482–4 **(Ita)**

RADIONUCLIDE IMAGING

Comparison between broad-band ultrasound attenuation of the calcaneum and total body bone mineral density in children. Mughal MZ, et al. **Acta Paediatr** 1996 Jun; 85(6):663–5

SURGERY

Results of the surgical treatment of calcaneo-navicular coalito. Jerosch J, et al. **Arch Orthop Trauma Surg** 1997; 116(6-7):379–84

Anatomic considerations for safe placement of calcaneal pins. Mekhail AO, et al. **Clin Orthop** 1996 Nov;(332):254–9

Calcaneocuboid joint pressures with lateral column lengthening (Evans) procedure. Cooper PS, et al. **Foot Ankle Int** 1997 Apr;18(4):199–205

Bilateral total calcanectomy for the treatment of chronic refractory osteomyelitis. Naftulin KA, et al. **J Am Podiatr Med Assoc** 1997 Mar;87(3):141–3 (9 ref.)

Effects of medial and lateral displacement calcaneal osteotomies on tibiotalar joint contact stresses. Steffensmeier SJ, et al. **J Orthop Res** 1996 Nov;14(6):980–5

External fixation of the calcaneus and talus: an anatomical study for safe pin insertion. Santi MD, et al. **J Orthop Trauma** 1996;10(7):487–91

Tibialis anterior transfer for calcaneal deformity: a postoperative gait analysis. Stott NS, et al. **J Pediatr Orthop** 1996 Nov-Dec;16(6):792–8

[Coral as support of traumatic articular compression. A prospective study of 23 cases involving the lower limb] de Peretti F, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(3):234–40 (Eng. Abstr.) **(Fre)**

[The calcaneal cyst (editorial; comment)] Tscherne H, et al. **Langenbecks Arch Chir** 1996;381(6):299. Comment on: Langenbecks Arch Chir 1996 ;381(6):300–2. **(Ger)**

[Solitary calcaneal cyst (see comments)] Wallenböck E, et al. **Langenbecks Arch Chir** 1996;381(6):300–2 (Eng. Abstr.) . Comment in: Langenbecks Arch Chir 1996 ;381(6):299. **(Ger)**

[Fractures of the calcaneus--new trends in management] Rath E, et al. **Harefuah** 1997 Mar 16;132(6):424–7 (16 ref.) **(Heb)**

TRANSPLANTATION

Autogenous calcaneal bone graft repair of a closing base wedge osteotomy nonunion. Pontious J, et al. **J Am Podiatr Med Assoc** 1996 Jan;86(1):25–32

ULTRASONOGRAPHY

Comparison between broad-band ultrasound attenuation of the calcaneum and total body bone mineral density in children. Mughal MZ, et al. **Acta Paediatr** 1996 Jun; 85(6):663–5

Determinants of age-associated changes in os calcis ultrasonic indices in elderly women: potential involvement of geriatric hyposomatotropism in bone fragility. Boonen S, et al. **Age Ageing** 1997 Mar;26(2):139–46

Assessment of bone status using the contact ultrasound bone analyser. Mughal MZ, et al. **Arch Dis Child** 1997 Jun; 76(6):535–6

Ultrasound measurements in the calcaneus: precision and its relation with bone mineral density of the heel, hip, and lumbar spine. Graafmans WC, et al. **Bone** 1996 Aug; 19(2):97–100

The ability of ultrasound velocity to predict the stiffness of cancellous bone in vitro. Hodgskinson R, et al. **Bone** 1997 Aug;21(2):183–90

Improved reproducibility of broadband ultrasound attenuation of the os calcis by using a specific region of interest. Jørgensen HL, et al. **Bone** 1997 Jul;21(1):109–12

Prediction of mechanical properties of the human calcaneus by broadband ultrasonic attenuation. Langton CM, et al. **Bone** 1996 Jun;18(6):495–503

The combined use of ultrasound and densitometry in the prediction of vertebral fracture. Cepollaro C, et al. **Br J Radiol** 1997 Jul;70(835):691–6

Male and female normative data for ultrasound measurement of the calcaneus within the UK adult population. Langton CM, et al. **Br J Radiol** 1997 Jun;70(834):580–5 (14 ref.)

The effect of cortical endplates on ultrasound velocity through the calcaneus: an in vitro study. Njeh CF, et al. **Br J Radiol** 1997 May;70(833):504–10

Water bath and contact methods in ultrasonic evaluation of bone. Häusler KD, et al. **Calcif Tissue Int** 1997 Jul; 61(1):26–9

Influence of bone quality on precision of calcaneal ultrasonometry. Rosenthall L. **Calcif Tissue Int** 1997 Aug; 61(2):139–41

Ultrasound bone densitometry of os calcis in elderly Japanese women with hip fracture. Sakata S, et al. **Calcif Tissue Int** 1997 Jan;60(1):2–7

Selective supplementation of calcaneal ultrasound densitometry with dual-energy x-ray absorptiometry of the spine and femur for population screening. Rosenthall L. **Can Assoc Radiol J** 1997 Feb;48(1):38–41

The clinical role of BUA for the assessment of osteoporosis: a new hypothesis. Langton CM. **Clin Rheumatol** 1996 Jul; 15(4):414–5 (15 ref.)

A comparison of the sensitivity and specificity of calcaneal ultrasound measurements with clinical criteria for bone densitometry (DEXA) referral. Langton CM, et al. **Clin Rheumatol** 1997 Jan;16(1):117–8

Ultrasound analyses of the calcaneus predict relative risk of the presence of at least one vertebral fracture and reflect different physical qualities of bone in different regions of the skeleton. Pfeifer M, et al. **Horm Metab Res** 1997 Feb; 29(2):76–9

Quantitative ultrasound of the calcaneus reflects the mechanical properties of calcaneal trabecular bone. Bouxsein ML, et al. **J Bone Miner Res** 1997 May; 12(5):839–46

Polymorphisms of the vitamin D receptor gene do not predict quantitative ultrasound of the calcaneus or hip axis length. Arden NK, et al. **Osteoporos Int** 1996;6(4):334–7

Calcaneal ultrasound attenuation in older African-American and Caucasian-American women. Cauley JA, et al. **Osteoporos Int** 1997;7(2):100–4

Influence of handedness on calcaneal ultrasound: implications for assessment of osteoporosis and study design. Howard GM, et al. **Osteoporos Int** 1997;7(3):190–4

Quantitative ultrasound of bone in institutionalized elderly women: a cross-sectional and longitudinal study. Krieg MA, et al. **Osteoporos Int** 1996;6(3):189–95

Longitudinal changes in ultrasound parameters of the calcaneus. van Daele PL, et al. **Osteoporos Int** 1997; 7(3):207–12

Low-frequency ultrasonic velocity measurements in human calcaneal trabecular bone. Strelitzki R, et al. **Physiol Meas** 1997 May;18(2):119–27

Contribution of calcaneal ultrasonic assessment to the evaluation of postmenopausal and glucocorticoid-induced osteoporosis. Blanckaert F, et al. **Rev Rhum Engl Ed** 1997 May;64(5):305–13

An investigation of the measurement of broadband ultrasonic attenuation in trabecular bone. Strelitzki R, et al. **Ultrasonics** 1996 Dec;34(8):785–91

[Diagnosis of osteoporosis with ultrasound densitometry of the calcaneus] Wendt B, et al. **Radiologe** 1996 Jan; 36(1):58–63 (Eng. Abstr.) **(Ger)**

CALCIDIOL 1-MONOOXYGENASE see
25-HYDROXYCHOLECALCIFEROL 1-HYDROXYLASE

CALCIFEDIOL

ANALOGS & DERIVATIVES

Separation and characterization of monoglucuronides of vitamin D(3) and25-hydroxyvitamin D(3) in rat bile by high-performance liquid chromatography. Shimada K, et al. **Biol Pharm Bull** 1996 Apr;19(4):491-4

1alpha,25-dihydroxyvitamin D3-24-hydroxylase (CYP24) hydroxylates the carbon at the end of the side chain (C-26) of the C-24-fluorinated analog of 1alpha,25-dihydroxyvitamin D3. Miyamoto Y, et al. **J Biol Chem** 1997 May 30;272(22):14115-9

BLOOD

Plasma calcidiol, season, and serum parathyroid hormone concentrations in healthy elderly men and women. Dawson-Hughes B, et al. **Am J Clin Nutr** 1997 Jan; 65(1):67-71

Effect of clodronate on calcidiol serum levels in women with breast cancer. Martinez ME, et al. **Calcif Tissue Int** 1997 Aug;61(2):148-50

Enzyme immunoassay for measuring 25-hydroxyvitamin D3 in serum. Lind C, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):943-9

Acute PTH response to oral calcium load and seasonal variation of vitamin D status in healthy young adult subjects. Guillemant J, et al. **Eur J Clin Nutr** 1996 Jul; 50(7):469-72

Lower serum 25-hydroxyvitamin D is associated with increased bone resorption markers and lower bone density at the proximal femur in normal females: a population-based study. Scharla SH, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):289-92

Determination of 25-hydroxyvitamin D3 in human plasma by reversed-phase high-performance liquid chromatography with ultraviolet detection. Shimada K, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):409-14

Simplified method for the determination of 25-hydroxy and 1alpha,25-dihydroxy metabolites of vitamins D2 and D3 in human plasma. Application to nutritional studies. Takeuchi A, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):313-9

Increased catabolism of 25-hydroxyvitamin D in patients with partial gastrectomy and elevated 1,25-dihydroxyvitamin D levels. Implications for metabolic bone disease. Davies M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):209-12

Serum vitamin D, parathyroid hormone and biochemical markers of bone turnover in normal Thai subjects. Chailurkit LO, et al. **J Med Assoc Thai** 1996 Aug; 79(8):499-504

Dose the plasma concentration of 25-hydroxyvitamin D determine the level of 1,25-dihydroxyvitamin D in primary hyperparathyroidism? Frølich A, et al. **Miner Electrolyte Metab** 1996;22(4):203-6

Effect of growth hormone on urine calcium and serum vitamin D metabolites in renal failure. Strife CF, et al. **Pediatr Nephrol** 1996 Oct;10(5):648-50

Measurement of vitamin D and its metabolites (calcidiol and calcitriol) and their clinical significance. Schmidt-Gayk H, et al. **Scand J Clin Lab Invest Suppl** 1997;227:35-45 (36 ref.)

Vitamin D deficiency and osteopenia in the hemiplegic limbs of stroke patients. Sato Y, et al. **Stroke** 1996 Dec; 27(12):2183-7

[Course of blood levels of calcium, inorganic phosphate, alkaline phosphatase, parathyroid hormone and calcidiol (25-OH-D3) in one and two year old thoroughbred horses] Enbergs H, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec;103(12):491-3 (Eng. Abstr.) **(Ger)**

[Levels of dihydroxyvitamin D3 and hydroxyvitamin D in patients with chronic renal insufficiency] Lazarević M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:108-11 (Eng. Abstr.) **(Scc)**

METABOLISM

In vitro glucuronidation of 25-hydroxyvitamin D3 and its pro-form. Shimada K, et al. **Biol Pharm Bull** 1997 Jun; 20(6):596-600

The metabolism of vitamin D3 in response to testosterone. Otremski I, et al. **Calcif Tissue Int** 1997 May;60(5):485-7

PHYSIOLOGY

25-hydroxycholecalciferol in poultry nutrition. Soares JH Jr, et al. **Poult Sci** 1995 Dec;74(12):1919-34 (102 ref.)

THERAPEUTIC USE

Effectiveness of dietary 25- and 1-hydroxycholecalciferol in combating tibial dyschondroplasia in broiler chickens. Rennie JS, et al. **Br Poult Sci** 1996 May;37(2):413-21

Role of alfacalcidiol on bone quality and immunomodulation in autoimmune disease and organ transplantation. Dequeker J, et al. **Calcif Tissue Int** 1997 Jan;60(1):128-9 (14 ref.)

Calcitonin, etidronate, and calcidiol treatment in bone loss after cardiac transplantation. Garcia-Delgado I, et al. **Calcif Tissue Int** 1997 Feb;60(2):155-9

Effect of disodium monofluorophosphate, calcium and vitamin D supplementation on bone mineral density in patients chronically treated with glucocorticosteroids: a prospective, randomized, double-blind study. Lippuner K, et al. **Miner Electrolyte Metab** 1996;22(4):207-13

URINE

Persistent hypercalciuria and elevated 25-hydroxyvitamin D3 in children with infantile hypercalcaemia. Pronicka E, et al. **Pediatr Nephrol** 1997 Feb;11(1):2-6

CALCIFEROLS see **ERGOCALCIFEROLS**

CALCIFICATION OF POSTERIOR LONGITUDINAL LIGAMENT see **OSSIFICATION OF POSTERIOR LONGITUDINAL LIGAMENT**

CALCIFICATION, PATHOLOGIC see **CALCINOSIS**

CALCIFICATION, PHYSIOLOGIC

see related
BONE DEVELOPMENT
OSTEOGENESIS

Bone mineral acquisition in low calcium intake children following the withdrawal of calcium supplement. Lee WT, et al. **Acta Paediatr** 1997 Jun;86(6):570-6

Bone metabolism in treated celiac children [letter; comment] Szathmári M, et al. **Am J Gastroenterol** 1997 May; 92(5):910-1. Comment on: Am J Gastroenterol 1996 Jun;91(6):1226-31.

Temporal expression of PDGF receptors and PDGF regulatory effects on osteoblastic cells in mineralizing cultures. Yu X, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1709-16

Bone mineralization and bone maturation in precocious puberty. Arisaka O, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):101-2

Isolation of cells from ovine fetal long bone and characterization of their osteoblastic activities during in vitro mineralization. Collignon H, et al. **Arch Physiol Biochem** 1997 Apr;105(2):158-66

Chemistry of collagen cross-linking: biochemical changes in collagen during the partial mineralization of turkey leg tendon. Knott L, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):535-42

X-ray diffraction study of in vitro calcification of tendon collagen. Bigi A, et al. **Biomaterials** 1996 Jun; 17(12):1195-201

In vitro calcium phosphate formation on a natural composite material, bamboo. Li SH, et al. **Biomaterials** 1997 Mar; 18(5):389-95

Novel anti-calcification treatment of biological tissues by grafting of sulphonated poly(ethylene oxide). Park KD, et al. **Biomaterials** 1997 Jan;18(1):47-51

Effects of alkaline phosphatase on bone healing around plasma-sprayed titanium implants: a pilot study in rabbits. Piattelli A, et al. **Biomaterials** 1996 Jul;17(14):1443-9

25th European Symposium on Calcified Tissues. Harrogate, United Kingdom, 25-29 April 1997. Abstracts. **Bone** 1997 Apr;20(4 Suppl):1S-140S

Fourier transform infrared microspectroscopic analysis identifies alterations in mineral properties in bones from mice transgenic for type X collagen. Paschalis EP, et al. **Bone** 1996 Aug;19(2):151-6

Viable cells are a requirement for in vitro cartilage calcification. Boskey AL, et al. **Calcif Tissue Int** 1996 Mar; 58(3):177-85

Stable transfection of nonosteogenic cell lines with tissue nonspecific alkaline phosphatase enhances mineral deposition both in the presence and absence of beta-glycerophosphate: possible role for alkaline phosphatase in pathological mineralization. Hui M, et al. **Calcif Tissue Int** 1997 May;60(5):467-72

Calcification of the lumbar vertebrae during human fetal development. Oyedepo AC, et al. **Calcif Tissue Int** 1997 Sep;61(3):179-82

Demonstration of alkaline phosphatase participation in the mineralization of osteoblasts by antisense RNA approach. Torii Y, et al. **Cell Biol Int** 1996 Jul;20(7):459-64

Light-microscopical investigation of the distribution of extracellular matrix molecules and calcifications in human dental pulps of various ages. Hillmann G, et al. **Cell Tissue Res** 1997 Jul;289(1):145-54

A possible role of collagen fibrils in the process of calcification observed in the capsule of the pineal gland in aging rats. Humbert W, et al. **Cell Tissue Res** 1997 Jun; 288(3):435-9

In situ levels of intracellular Ca2+ and pH in avian growth plate cartilage. Wu LN, et al. **Clin Orthop** 1997 Feb; (335):310-24

Cell biology of calcified tissues: experimental models of differentiation and mechanisms by which local and systemic factors exert their effects. Boyan BD, et al. **Connect Tissue Res** 1996;35(1-4):63-70 (54 ref.)

Bone mineralization as studied by small-angle x-ray scattering. Fratzl P, et al. **Connect Tissue Res** 1996; 34(4):247-54 (21 ref.)

Polarized FT-IR microscopy of calcified turkey leg tendon. Gadaleta SJ, et al. **Connect Tissue Res** 1996;34(3):203-11

Enzymes in mineralizing systems: state of the art. Golub EE. **Connect Tissue Res** 1996;35(1-4):183-8 (66 ref.)

Inhibition of proteoglycan biosynthesis decreases the calcification of chondrocyte cultures. Hunter GK, et al. **Connect Tissue Res** 1996;35(1-4):379-84

Spicule formation in the New Zealand ascidian Pyura pachydermatina (Chordata, Ascidiacea). Lambert G, et al. **Connect Tissue Res** 1996;34(4):263-9

Mineral characterization in calcifying tissues: atomic, molecular and macromolecular perspectives. Landis WJ. **Connect Tissue Res** 1996;34(4):239-46 (44 ref.)

Regulation of statoconia mineralization in Aplysia californica in vitro. Pedrozo HA, et al. **Connect Tissue Res** 1996; 35(1-4):317-23

Extracellular processing of bone and dentin proteins in matrix mineralization. Suzuki Y, et al. **Connect Tissue Res** 1996; 35(1-4):223-9

Characterization and reconstitution of the nucleational complex responsible for mineral formation by growth plate cartilage matrix vesicles. Wu LN, et al. **Connect Tissue Res** 1996;35(1-4):309-15

Longitudinal assessment of growth and bone mineral accretion in prematurely born infants treated for chronic lung disease with dexamethasone. Weiler HA, et al. **Early Hum Dev** 1997 Feb 20;47(3):271-86

Determinants of bone mineralization in 8 to 20 year old Finnish females. Uusi-Rasi K, et al. **Eur J Clin Nutr** 1997 Jan;51(1):54-9

Decreased bone mineralization in children with phenylketonuria under treatment. Hillman L, et al. **Eur J Pediatr** 1996 Jul;155 Suppl 1:S148-52

Static and dynamic bone changes in hospitalized patients suffering from rickets--a histomorphometric study. Raubenheimer EJ, et al. **Histopathology** 1997 Jul;31(1):12-7

Dual-energy X-ray absorptiometry in early life. Lapillonne A, et al. **Horm Res** 1997;48 Suppl 1:43-9 (47 ref.)

Calcified concretions in the anterior pituitary gland of the fetus and the newborn: a light and electron microscopic study. Groisman GM, et al. **Hum Pathol** 1996 Nov; 27(11):1139-43

Preliminary comparison of mineralizing multilayer cultures formed by primary fetal bovine mandibular osteoblasts grown on titanium, hydroxyapatite, and glass substrates. Yliheikkilä PK, et al. **Int J Oral Maxillofac Implants** 1996 Jul-Aug;11(4):456-65

Adaptive crystal formation in normal and pathological calcifications in synthetic calcium phosphate and related biomaterials. Daculsi G, et al. **Int Rev Cytol** 1997; 172:129-91 (326 ref.)

The carboxyl-terminal domain of phosphophoryn contains unique extended triplet amino acid repeat sequences forming ordered carboxyl-phosphate interaction ridges that may be essential in the biomineralization process. George A, et al. **J Biol Chem** 1996 Dec 20;271(51):32869-73

Evidence of the presence of a specific ATPase responsible for ATP-initiated calcification by matrix vesicles isolated from cartilage and bone. Hsu HHT, et al. **J Biol Chem** 1996 Oct 18;271(42):26383-8

Effects of concanavalin A on chondrocyte hypertrophy and matrix calcification. Yan W, et al. **J Biol Chem** 1997 Mar 21;272(12):7833-40

Surface-induced mineralization: a new method for producing calcium phosphate coatings. Campbell AA, et al. **J Biomed Mater Res** 1996 Sep;32(1):111-8

Factors which affect the calcification of tissue-derived bioprostheses. Nimni ME, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):531-7

Effects of proteoglycan modification on mineral formation in a differentiating chick limb-bud mesenchymal cell culture system. Boskey AL, et al. **J Cell Biochem** 1997 Mar 15;64(4):632-43

Cell-mediated mineralization in culture at low temperature associated with subtle thermogenic response. Klein BY, et al. **J Cell Biochem** 1996 Nov 1;63(2):229-38

Differential induction of cell-mediated mineralization in rat marrow stroma by sera from women of low and high risk for vertebral fracture. Klein BY, et al. **J Cell Biochem** 1996 Oct;63(1):115-22

The influence of trace elements on calcium phosphate formation by matrix vesicles. Sauer GR, et al. **J Inorg Biochem** 1997 Jan;65(1):57-65

Mineralization of collagen may occur on fibril surfaces: evidence from conventional and high-voltage electron microscopy and three-dimensional imaging. Landis WJ, et al. **J Struct Biol** 1996 Jul-Aug;117(1):24-35

Identification of lysine-derived crosslinks in porcine collagen type X from growth plate and newly mineralized bone. Rucklidge GJ, et al. **Matrix Biol** 1996 Jul;15(2):73-80

Estimation of sex and age by calcification pattern of costal cartilage in Japanese. Inoi T. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):89-94

The effects of dairy products on body composition, bone mineralization, and weight in adolescent girls (Nutr Rev 1996;54:64-65) [letter; comment] Kerstetter J, et al. **Nutr Rev** 1996 Feb;54(2 Pt 1):66. Comment on: Nutr Rev 1996 Feb;54(2 Pt 1):64-5.

The effects of dairy products on body composition, bone mineralization, and weight in adolescent girls [see comments] Solomons NW. **Nutr Rev** 1996 Feb;54(2 Pt 1):64-5. Comment in: Nutr Rev 1996 Feb;54(2 Pt 1):66.

The mineralization of crystalline inorganic components in Japanese serow horn. Hashiguchi K, et al. **Okajimas Folia Anat Jpn** 1995 Dec;72(5):235-43

Apoptosis and calcification. Kim KM. **Scanning Microsc** 1995;9(4):1137-75; discussion 1175-8 (350 ref.)

[Mechanisms of calcification and molecular phylogeny of Rubisco genes in coccolithophorid algae] Fujiwara S. **Seikagaku** 1996 Aug;68(8):1445-8 (8 ref.) **(Jpn)**

[Structural organization of bone minerals] Doktorov AA, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):687–91 **(Rus)**
[The formation of psammoma bodies in the choroid plexus of the human brain] Korzhevskiĭ DE. **Morfologiia** 1997; 111(2):46–9 (Eng. Abstr.) **(Rus)**
[Influence of physical activity upon bone mineralization of school age children of both sexes] Burrows Argote R, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):11–5 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Stimulative effects of gusuibu (Drynaria baronii) injection on chick embryo bone primordium calcification in vitro. Ma KC, et al. **Am J Chin Med** 1996;24(1):77–82
Effect of sodium chloride solutions on mineralized and unmineralized turkey leg tendon. Lees S, et al. **Calcif Tissue Int** 1997 Jul;61(1):74–6
Supraphysiologic levels of testosterone affect cancellous and cortical bone in the young female cynomolgus monkey. Lundon K, et al. **Calcif Tissue Int** 1997 Jan;60(1):54–62
All-trans retinoic acid inhibits dexamethasone-induced ALP activity and mineralization in human osteoblastic cell line SV HFO. Nuka S, et al. **Cell Struct Funct** 1997 Feb; 22(1):27–32
The effect of 6'-galactooligosaccharides on bone mineralization of rats adapted to different levels of dietary calcium. Chonan O, et al. **Int J Vitam Nutr Res** 1996; 66(3):244–9
Effects of calcitonin and parathyroid hormone on calcification of primary cultures of chicken growth plate chondrocytes. Ishikawa Y, et al. **J Bone Miner Res** 1997 Mar;12(3):356–66
Cyclosporin A and its non-immunosuppressive derivative exhibit a differential effect on cell-mediated mineralization in culture. Klein BY, et al. **J Cell Biochem** 1997 Feb; 64(2):209–16
Opposing effects of tyrosine kinase inhibitors on mineralization of normal and tumor bone cells. Klein BY, et al. **J Cell Biochem** 1997 Jun 1;65(3):420–9
Effects of bisphosphonates on alkaline phosphatase activity, mineralization, and prostaglandin E2 synthesis in the clonal osteoblast-like cell line MC3T3-E1. Igarashi K, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Feb; 56(2):121–5
Iron deposition at mineralization fronts and osteoid formation following chronic cadmium exposure in ovariectomized rats. Hiratsuka H, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):348–56
Bone metal mobilization induced by long-term desferrioxamine B therapy in continuous ambulatory peritoneal dialysis. Romero RA, et al. **Transplant Proc** 1996 Dec;28(6):3380–1

GENETICS

Expression of matrix proteins during the development of mineralized tissues. Sommer B, et al. **Bone** 1996 Oct; 19(4):371–80
Subcloning of three osteoblastic cell lines with distinct differentiation phenotypes from the mouse osteoblastic cell line KS-4. Yamashita T, et al. **Bone** 1996 Nov;19(5):429–36
Cartilage calcification and limb bud growth in the developing tich mouse embryo. Ahmed Z, et al. **Calcif Tissue Int** 1997 Jun;60(6):561–6

PHYSIOLOGY

Factors affecting the rate and pattern of the first costal cartilage ossification. Barchilon V, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):239–47
In vitro calcified tendon collagen: an atomic force and scanning electron microscopy investigation. Bigi A, et al. **Biomaterials** 1997 May;18(9):657–65
Biomechanical characterization of osseointegration during healing: an experimental in vivo study in the rat. Brånemark R, et al. **Biomaterials** 1997 Jul;18(14):969–78
Persistence of complexed acidic phospholipids in rapidly mineralizing tissues is due to affinity for mineral and resistance to hydrolytic attack: in vitro data. Boskey AL, et al. **Calcif Tissue Int** 1996 Jan;58(1):45–51
Matrix vesicles promote mineralization in a gelatin gel. Boskey AL, et al. **Calcif Tissue Int** 1997 Mar;60(3):309–15
P-glycoprotein is expressed in the mineralizing regions of the skeleton. Mangham DC, et al. **Calcif Tissue Int** 1996 Mar;58(3):186–91
Matrix proteins and mineralization: an overview. Boskey AL. **Connect Tissue Res** 1996;35(1–4):357–63 (50 ref.)
Inactivation of two mouse alkaline phosphatase genes and establishment of a model of infantile hypophosphatasia. Narisawa S, et al. **Dev Dyn** 1997 Mar;208(3):432–46
A mechanism of adaptation to hypergravity in the statocyst of Aplysia californica. Pedrozo HA, et al. **Hear Res** 1996 Dec 1;102(1–2):51–62
Mineralization is more reliable in periosteum explants from size-selected chicken embryos [letter] Lovitch D, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):234–5
Dielectric studies of proton transport in air-dried fully calcified and decalcified bone. Marzec E, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):27–31
Quantitative assessment of callus distraction using dual energy X-ray absorptiometry. Reiter A, et al. **Int Orthop** 1997;21(1):35–40
Effect of rice cereal feedings on bone mineralization and calcium homeostasis in cow milk formula fed infants. Bainbridge RR, et al. **J Am Coll Nutr** 1996 Aug;15(4):383–8
Onset of epiphyseal mineralization and growth plate closure in radiographically normal and dysplastic Labrador retrievers [see comments] Todhunter RJ, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1458–62. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.
Role of beta-GP-derived Pi in mineralization via ecto-alkaline phosphatase in cultured fetal calvaria cells. Anagnostou F, et al. **J Cell Biochem** 1996 Aug;62(2):262–74
Regulated production of mineralization-competent matrix vesicles in hypertrophic chondrocytes. Kirsch T, et al. **J Cell Biol** 1997 Jun 2;137(5):1149–60
Early mineralization of matrix vesicles in the epiphyseal growth plate. Plate U, et al. **J Microsc** 1996 Jul;183 (Pt 1):102–7
Expression of extracellular matrix proteins in human periodontal ligament cells during mineralization in vitro. Nohutcu RM, et al. **J Periodontol** 1997 Apr;68(4):320–7
Ca-ATPase and bone cell mineralization. Abramowitz J, et al. **Miner Electrolyte Metab** 1996;22(5–6):336–44 (101 ref.)
Inhibitors of in vitro mineralization from flexor tendons of rabbits and their role in biological mineralization. Tandon CD, et al. **Mol Cell Biochem** 1997 Jun;171(1–2):29–35
[Conditioning factors in bone mineralization] Muzzo S. **Rev Med Chil** 1996 Aug;124(8 Suppl):40–6 (39 ref.) **(Spa)**
[Influence of nutrition and physical activity on bone mineralization] Muzzo S, et al. **Rev Med Chil** 1996 Aug; 124(8 Suppl):78–85 (28 ref.) **(Spa)**

CALCIFICATION, TOOTH see **TOOTH CALCIFICATION**

CALCIMEDIN 35 ALPHA see **ANNEXIN III**

CALCIMEDIN 67 KD see **ANNEXIN VI**

CALCIMEDINS see **ANNEXINS**

CALCIMYCIN

CHEMISTRY

Evidence against formation of A23187 dimers and oligomers in solution: photo-induced degradation of Ionophore A23187. Thomas TP, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):351–61

PHARMACOLOGY

Effects of volatile anesthetics on the calcium ionophore A23187-mediated alterations in hepatic flow and metabolism in the perfused liver in fasted rats. Araki M, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):55–61
Induction of acrosome reaction in dog sperm by calcium ionophore. Szász F, et al. **Acta Vet Hung** 1997;45(2):177–87
Regulation of taurocholate and ursodeoxycholate uptake in hamster hepatocytes by Ca(2+)-mobilizing agents. Bouscarel B, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1084–95
Effects of products of activated immune cells and recombinant cytokines on spontaneous and ionophore-induced acrosome reaction. Dimitrov DG, et al. **Am J Reprod Immunol** 1996 Sep;36(3):150–6
Acrosomal status of human spermatozoa after follicular fluid or calcium ionophore challenge in relation to semen parameters and fertilizing capacity in vitro. Avrech O, et al. **Andrologia** 1997 Mar-Apr;29(2):97–101
Calcium ionophore (A23187) differential effect on red cells from pre and postnatal haemopoiesis. Corchs JL, et al. **Arch Physiol Biochem** 1996;104(2):148–51
Molecular cloning and characterization of a novel human receptor protein tyrosine phosphatase gene, hPTP-J: down-regulation of gene expression by PMA and calcium ionophore in Jurkat T lymphoma cells. Wang B, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):77–81
Tyrosine phosphorylation of band 3 protein in Ca2+/A23187-treated human erythrocytes. Minetti G, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):445–50
Arachidonate-induced eicosanoid synthesis in RBL-2H3 cells: stimulation with antigen or A23187 induces prolonged activation of 5-lipoxygenase. Westcott JY, et al. **Biochim Biophys Acta** 1996 Sep 6;1303(1):74–81
Protein kinase C- and Ca2+ ionophore-stimulated production of reactive oxygen species in mechanically dispersed isolated bovine luteal cells. Sakka E, et al. **Biol Reprod** 1997 Aug;57(2):428–35
Action of 5-hydroxytryptamine in facilitating N-methyl-D-aspartate depolarization of cortical neurones mimicked by calcimycin, cyclopiazonic acid and thapsigargin. Rahman S, et al. **Br J Pharmacol** 1996 Nov; 119(5):877–84
Down-regulation of Na channel expression by A23187 in N1E-115 neuroblastoma cells. Hirsh JK, et al. **Brain Res** 1996 Jan 15;706(2):343–6
Calcium ionophore A 23187 induces apoptotic cell death in rat thymocytes. Azmi S, et al. **Cancer Lett** 1996 Oct 1; 107(1):97–103
Effects of egtazic acid and calcimycin on synthesis of DNA and collagen in cultured human lung fibroblasts. Liu HL, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):63–5
Lipid peroxidation: the role of Ca2+ and protection by calcinine. Pereira RS. **Eur J Drug Metab Pharmacokinet** 1996 Jan-Mar;21(1):23–6
Pharmacological modulation of eosinophil influx into the lungs of Brown Norway rats. Namovic MT, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):81–8
Brefeldin A inhibits antigen- or calcium ionophore-mediated but not PMA-induced phospholipase D activation in rat basophilic leukemia (RBL-2H3) cells. Nakamura Y, et al. **Immunobiology** 1996 Jul;195(2):231–42
Effect of Ca(2+)-channel blockers, Ca(2+)-ionophore and increased pyrene excimer formation on the microsomal glucose-6-phosphatase. Gupta A, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):272–8
Effects of the calcium ionophore A23187 on airway responsiveness to histamine and substance P in guinea pigs. Uno D, et al. **Inflamm Res** 1997 Mar;46(3):108–13
Mast cell activation in human synovium explants by calcium ionophore A23187, compound 48/80, and rabbit IgG anti-human IgE, but not morphine sulfate. Verbsky JW, et al. **Inflamm Res** 1996 Jan;45(1):35–41
Human whole blood assays for inhibition of prostaglandin G/H synthases-1 and -2 using A23187 and lipopolysaccharide stimulation of thromboxane B2 production. Young JM, et al. **Inflamm Res** 1996 May; 45(5):246–53
Nicotine does not modulate IL-4 and interferon-gamma release from peripheral blood mononuclear cells and T cell clones activated by phorbol myristate acetate and calcium ionophore. Le Cam L, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):372–5
Parthenogenetic activation of mouse oocytes using calcium ionophores and protein kinase C stimulators. Uranga JA, et al. **Int J Dev Biol** 1996 Apr;40(2):515–9
Effect of phorbol myristate acetate (PMA) and ionophore A23187 on interleukin-2 levels and proliferation of activated T lymphocytes from patients with lepromatous leprosy. Alfaro-Bustamante F, et al. **Int J Lepr Other Mycobact Dis** 1997 Mar;65(1):73–9
Efficacy of calcium ionophore A23187 oocyte activation for generating parthenotes for human embryo research. Rhoton-Vlasak A, et al. **J Assist Reprod Genet** 1996 Nov; 13(10):793–6
Sperm immobilization antibodies in infertile male sera decrease the acrosome reaction: a possible mechanism for immunologic infertility. Taşdemir I, et al. **J Assist Reprod Genet** 1996 May;13(5):413–6
Exocytosis of arginine-specific ADP-ribosyltransferase and p33 induced by A23187 and calcium or serum-opsonized zymosan in chicken polymorphonuclear leukocytes. Terashima M, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1209–15
Role of calcium in angiotensin II-induced prostaglandin release and DNA synthesis in rat vascular smooth muscle cells. Catalioto RM, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):195–200
Calcium ionophore-induced secretion from mast cells correlates with myosin light chain phosphorylation by protein kinase C. Ludowyke RI, et al. **J Immunol** 1996 Dec 1;157(11):5130–8
Regulation of tight junction resistance in T84 monolayers by elevation in intracellular Ca2+: a protein kinase C effect. Tai YH, et al. **J Membr Biol** 1996 Jan;149(1):71–9
Chromosome aberrations in human spermatozoa treated with Ca2+ ionophore A23187. Alvarez R, et al. **Mol Hum Reprod** 1996 Jul;2(7):481–4
Effects of the potassium channel openers KRN4884 and levcromakalim on the contraction of rat aorta induced by A23187, compared with nifedipine. Kawahara J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):460–5
Potentiation of stimulus-induced phosphoinositide breakdown by calmodulin antagonists in C6 glioma cells. Lin WW. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec;352(6):679–84
Release of intracellular calcium stores leads to retraction of membrane sheets and cell death in mature mouse oligodendrocytes. Benjamins JA, et al. **Neurochem Res** 1996 Apr;21(4):471–9
Leukotriene B4 and C4 generation by human leukocytes after ex vivo stimulation with Ca-ionophore and opsonized zymosan in children with atopic asthma. Kristjánsson S, et al. **Pediatr Allergy Immunol** 1995 Aug;6(3):155–60
The homogeneous effect of calcium ionophore A23187 on potassium loss in human foetal red cell populations. Serrani RE, et al. **Physiol Res** 1995;44(5):275–80
Effect of garlic on platelet aggregation in humans: a study in healthy subjects and patients with coronary artery disease. Bordia A, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):201–5
The effects of EDRF/NO releasers or calcium ionophore A23187 on cyanide toxicity in mice. Baskin SI, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):349–55
Functional characterization of equine neutrophils in response to calcium ionophore A23187 and phorbol myristate acetate ex vivo. Moore T, et al. **Vet Immunol Immunopathol** 1997 May;56(3–4):233–46
In vitro fertilisation of Chinese hamster oocytes by spermatozoa that have undergone ionophore A23187-induced acrosome reaction, and their subsequent development into blastocysts. Tateno H, et al. **Zygote** 1996 May;4(2):93–9

CALCIMYCIN

[Quantitative changes in leukotriene B4 release in neutrophilic leukocytes activated by Ca ionophore during pregnancy--normal pregnancy and preeclampsia] Imai T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jun; 48(6):405-11 (Eng. Abstr.) **(Jpn)**

[The effect of the increase in the calcium concentration induced by action of the ionophore A-23187 on mitosis in cultured ESK cells] Alieva IB, et al. **Tsitologiia** 1996; 38(12):1261-8 (Eng. Abstr.) **(Rus)**

TOXICITY

The use of the divalent calcium-ionophore A23187 as a biochemical tool in pharmacological and in vitro toxicological studies. Boot JH, et al. **Cell Struct Funct** 1996 Apr;21(2):97-9

Anabolic steroids induce injury and apoptosis of differentiated skeletal muscle. Abu-Shakra S, et al. **J Neurosci Res** 1997 Jan 15;47(2):186-97

Activation-secretion coupling in 10P2 murine mast cells challenged with IgE-antigen, ionophore A23187, thapsigargin and phorbol ester. Heiman AS, et al. **Pharmacology** 1997 Mar;54(3):153-61

CALCINOSIS

see related
CHONDROCALCINOSIS

Calcifying tendinitis. Uhthoff HK. **Ann Chir Gynaecol** 1996; 85(2):111-5 (24 ref.)

Influence of carboxylate ions containing polymers on calcification: in vitro study. Smetana K Jr, et al. **Biomaterials** 1996 Aug;17(16):1563-6

25th European Symposium on Calcified Tissues. Harrogate, United Kingdom, 25-29 April 1997. Abstracts. **Bone** 1997 Apr;20(4 Suppl):1S-140S

Calcified gastric cancer--CT findings before and after chemotherapy. Case report and discussion of the pathogenesis of this type of calcification. Balestreri L, et al. **Clin Imaging** 1997 Mar-Apr;21(2):122-5

Comparison of matrix vesicles derived from normal and osteoarthritic human articular cartilage. Derfus BA, et al. **Connect Tissue Res** 1996;35(1-4):337-42

Chronic calcifying pancreatitis in Taiwan: a multicentric study and comparison with western countries. Lin CC, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):842-8

Calcification of medial elastic fibers and aortic elasticity. Niederhoffer N, et al. **Hypertension** 1997 Apr; 29(4):999-1006

Adaptive crystal formation in normal and pathological calcifications in synthetic calcium phosphate and related biomaterials. Daculsi G, et al. **Int Rev Cytol** 1997; 172:129-91 (326 ref.)

Bone mineral density and aortic calcification: the Study of Osteoporotic Fractures. Vogt MT, et al. **J Am Geriatr Soc** 1997 Feb;45(2):140-5

Model experimental system for investigation of heart valve calcification in vitro. Kapolos J, et al. **J Biomed Mater Res** 1997 Fall;38(3):183-90

Factors which affect the calcification of tissue-derived bioprostheses. Nimni ME, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):531-7

Effect of alternative crosslinking techniques on the enzymatic degradation of bovine pericardia and their calcification. Vasudev SC, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):357-69

Unusual presentation of ectopic pregnancy. Gupta KB, et al. **J Indian Med Assoc** 1995 May;93(5):210

New-generation valved conduit: an experimental study. Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Aug; 114(2):218-23

Calcified pedicled thrombus in the left ventricle: the fine art of nature. Morales C, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):491-2

An autopsied case of acute myocarditis with myocardial calcification. Itoh E, et al. **Jpn Circ J** 1997 Sep; 61(9):798-802

[A 98-year-old woman with syphilitic aortic regurgitation combined with systolic murmur and calcification of the pulmonary artery] Ohkawa S, et al. **J Cardiol** 1997 Apr; 29(4):231-4 **(Jpn)**

[Pericardial calcification] Lee CW, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):569-71 (12 ref.) **(Jpn)**

[Coronary artery calcification] Miura T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):604-6 (9 ref.) **(Jpn)**

[Mitral annular calcification] Mori H. **Ryoikibetsu Shokogun Shirizu** 1996;(13):407-10 (19 ref.) **(Jpn)**

BLOOD

Active serum vitamin D levels are inversely correlated with coronary calcification. Watson KE, et al. **Circulation** 1997 Sep 16;96(6):1755-60

Free protein S deficiency in hemodialysis patients due to vascular calcifications? Perez-Mijares R, et al. **Nephron** 1996;74(2):356-60

CHEMICALLY INDUCED

Severe cervical dysplasia and nasal cartilage calcification following prenatal warfarin exposure. Howe AM, et al. **Am J Med Genet** 1997 Sep 5;71(4):391-6

Decrease in kidney calbindin-D 28kDa as a possible mechanism mediating cyclosporine A- and FK-506-induced calciuria and tubular mineralization [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1945] Aicher L, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):723-31

Fibroblasts of spinal ligaments pathologically differentiate into chondrocytes induced by recombinant human bone morphogenetic protein-2: morphological examinations for ossification of spinal ligaments. Hoshi K, et al. **Bone** 1997 Aug;21(2):155-62

Periarticular ectopic calcinosis probably due to 1 alpha-OH-vitamin D3 therapy, and successful treatment with bisphosphonate compound in a patient with systemic lupus erythematosus. Miyata M, et al. **Fukushima J Med Sci** 1996 Dec;42(1-2):39-46 (28 ref.)

COMPLICATIONS

Ulnar nerve compression--a case of giant uremic tumoral calcinosis. Cofán F, et al. **Acta Orthop Scand** 1997 Jun; 68(3):302-4

Spontaneous cerebral embolus from a calcified aortic valve. Doiron A, et al. **AJR Am J Roentgenol** 1996 Oct; 167(4):955-6

Possible association of thrombotic, nonbacterial vegetations of the mitral ring-mitral annular calcium and stroke. Eicher JC, et al. **Am J Cardiol** 1997 Jun 15;79(12):1712-5

Pancreatitis and aortic calcifications [letter] Boruchowicz A, et al. **Am J Gastroenterol** 1996 Dec;91(12):2650-1

Vascular calcification as a source of hand pain and weakness in a patient with end-stage renal failure. Naranja RJ Jr, et al. **Am J Orthop** 1997 Jun;26(6):426-7

Ossification of the ligamentum flavum causing thoracic myelopathy: a case report. Shenoi RM, et al. **Am J Phys Med Rehabil** 1997 Jan-Feb;76(1):68-72

Calcified embolus of the left coronary ostia after aortic valve replacement. Folliguet TA, et al. **Ann Thorac Surg** 1997 Apr;63(4):1162-3

Thrombus formation on a calcific and severely stenotic bicuspid aortic valve. Wan S, et al. **Ann Thorac Surg** 1997 Aug;64(2):535-6

Acetic acid iontophoresis and ultrasound for the treatment of calcifying tendinitis of the shoulder: a randomized control trial. Perron M, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):379-84

Percutaneous mitral valvuloplasty with the Inoue technique in a patient with heavily calcified interatrial septum. Alfonso F, et al. **Cathet Cardiovasc Diagn** 1996 Sep; 39(1):82-4

Obstructive jaundice caused by calcified portal venous thrombosis: a case report. Lin CH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jul;58(1):50-3

Weber-Christian disease with calcinosis: a case report [letter] Biasi D, et al. **Clin Rheumatol** 1996 Nov;15(6):624-5

Comparative study of mitral annular calcification (MAC) with cardiac arrhythmias in dialysis patients. Jeren-Strujić B, et al. **Coll Antropol** 1997 Jun;21(1):167-74

Acquired immunodeficiency syndrome and ocular calcification. Pecorella I, et al. **Cornea** 1996 May; 15(3):305-11

Granuloma annulare-like lesions and secondary hyperparathyroidism. Mautner GH, et al. **Cutis** 1996 Mar; 57(3):172-4

Endoscopic management of obstructive jaundice due to portal cavernoma [letter; comment] Yattoo GN, et al. **Endoscopy** 1996 Aug;28(6):521. Comment on: Endoscopy 1993 Aug;25(6):423-5.

Choroidal calcification in primary hyperparathyroidism [letter] O'Driscoll AM, et al. **Eye** 1995;9 (Pt 6):804-6

Chronic calcific pancreatitis associated with osteomalacia and secondary hyperparathyroidism. Kaur N, et al. **Indian J Gastroenterol** 1996 Oct;15(4):147-8

Clinical factors associated with calcific aortic valve disease. Cardiovascular Health Study. Stewart BF, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):630-4

Embolic thrombus on mitral anulus calcification. Malaterre HR, et al. **J Am Soc Echocardiogr** 1996 Nov-Dec; 9(6):894-6

Correcting acidosis in hemodialysis: effect on phosphate clearance and calcification risk. Harris DC, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1607-12

Tropical calcific pancreatitis and fibrocalculus pancreatic diabetes in Bangladesh. Khan AA, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):S48-52

Liver calcifications in cystic fibrosis. Lykavieris P, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):565-8

Occipital cerebral calcifications and celiac disease: an additional case. Vignolo M, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):194-6

Relationship between calcifying tendinitis and subacromial impingement: a prospective radiography and magnetic resonance imaging study. Loew M, et al. **J Shoulder Elbow Surg** 1996 Jul-Aug;5(4):314-9

Calcific tendinitis of the rotator cuff showing a contracted state of abduction: a report of four cases. Takahashi M, et al. **J Shoulder Elbow Surg** 1997 Jan-Feb;6(1):72-6

Thoracic ossification of the posterior longitudinal ligament, ossification of the yellow ligament from T9-T12 with superimposed acute T10/T11 disc herniation: controversies in surgical management. Epstein N. **J Spinal Disord** 1996 Oct;9(5):446-7; discussion 447-50

Bilateral large cell calcifying Sertoli cell tumor of the testis in a 7-year-old boy. White MD, et al. **J Urol** 1997 Oct; 158(4):1547-8

Chronic bronchopleural fistula in conservatively-treated calcified fibrothorax. Sulzer MA, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):229-31

Hypocitraturia and Ureaplasma urealyticum urinary tract infection in patients with idiopathic calcium nephrolithiasis [letter] De Ferrari ME, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1185

Calcific atrial mass in end-stage renal failure. Stone E, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):807-10

Spontaneous calcific cerebral embolus. Shanmugam V, et al. **Neurology** 1997 Feb;48(2):538-9

Progressive subcutaneous and periarticular calcifications in a patient with spinal muscular atrophy type III. Boltshauser E, et al. **Neuropediatrics** 1995 Dec;26(6):331-2

Idiopathic arterial calcification of infancy: effectiveness of prostaglandin infusion for treatment of secondary hypertension refractory to conventional therapy: case report. Ciana G, et al. **Pediatr Cardiol** 1997 Jan-Feb; 18(1):67-71

Intervertebral disk calcification: an unusual cause of acquired torticollis in childhood. Causey AL, et al. **Pediatr Emerg Care** 1996 Oct;12(5):356-9

Abdominal calcification in cystic fibrosis with meconium ileus: radiologic-pathologic correlation. Lang I, et al. **Pediatr Radiol** 1997 Jun;27(6):523-7

Leiomyomas of the gallbladder and splenic calcifications in an HIV-infected child. Tomà P, et al. **Pediatr Radiol** 1997 Jan;27(1):92-4

Calcification in a gastric neoplasm. García-Díaz M, et al. **Postgrad Med J** 1997 Jan;73(855):51-3

Cutaneous gangrene secondary to metastatic calcification in end stage renal failure--a case report. Tan HH, et al. **Singapore Med J** 1996 Aug;37(4):438-40 (12 ref.)

Disc degeneration/back pain and calcification of the abdominal aorta. A 25-year follow-up study in Framingham. Kauppila LI, et al. **Spine** 1997 Jul 15; 22(14):1642-7; discussion 1648-9

[Celiac disease, cerebral calcifications and epilepsy syndrome] Cuvellier JC, et al. **Arch Pediatr** 1996 Oct;3(10):1013-9 (39 ref.) (Eng. Abstr.) **(Fre)**

[Atypical form of pigmented villonodular synovitis of the knee containing calcifications] Farrokh D. **J Belge Radiol** 1996 Nov;79(5):203-5 (Eng. Abstr.) **(Fre)**

[Primary calcified mediastinal hydatid cyst producing compression] Benzarti M, et al. **Rev Mal Respir** 1997 Jan; 14(1):53-4 (Eng. Abstr.) **(Fre)**

[Calcareous tendinitis] Löhr JF, et al. **Orthopade** 1996 Sep; 25(5):484-93 **(Ger)**

[An unusual symptom complex of the upper cervical spine. Tendinitis calcarea of the longus colli muscle] Köcher M, et al. **Radiologe** 1997 Apr;37(4):331-2 **(Ger)**

[Nonrheumatic calcification of the mitral valve in patients with stenotic calcified bicuspid aortic valve] Sawada H, et al. **J Cardiol** 1996 Oct;28(4):221-6 (Eng. Abstr.) **(Jpn)**

[Left thoracotomy for coronary artery bypass grafting without cardiopulmonary bypass in a patient with porcelain aorta] Mizumoto T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):161-4 (Eng. Abstr.) **(Jpn)**

[A case of porcelain gallbladder with xanthogranulomatous cholecystitis masquerading as gallbladder cancer] Ohmi H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May; 94(5):381-5 **(Jpn)**

[Multiple cerebral infarction following coronary artery bypass grafting for the patient with calcified aorta--a case report] Koike R, et al. **Rinsho Kyobu Geka** 1989 Aug; 9(4):396-9 (Eng. Abstr.) **(Jpn)**

[Endomyocardial fibrosis with massive biventricular endocardial calcification] Morrone LF, et al. **Arq Bras Cardiol** 1996 Aug;67(2):103-5 (Eng. Abstr.) **(Por)**

[Long-course pneumonia as manifestation of transphrenic migration of a calcified hydatid cyst] del Río Fernández MC, et al. **An Med Interna** 1997 Mar;14(3):142-4 (Eng. Abstr.) **(Spa)**

[Celiac disease, cerebellar syndrome and occipital calcifications (letter)] Ranalli CG, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):277-8 **(Spa)**

[Physiological calcification of cerebral falx and cluster headache. Letter] Huezo CA. **Rev Neurol** 1997 Feb; 25(138):305-6 **(Spa)**

CONGENITAL

Giant congenital nevomelanocytic nevus and intracerebral calcified lesion. Arisoy AE, et al. **Int J Dermatol** 1996 Dec; 35(12):877-8

DIAGNOSIS

Central nervous system cryptococcosis: parenchymal calcification and large gelatinous pseudocysts. Caldemeyer KS, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):107-9

Proton MR spectroscopy in Coats disease. Eisenberg L, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):727-9

Egg shell nodal calcification in a patient with sinus histiocytosis with massive lymphadenopathy treated with interferon. Silvers AR, et al. **AJNR Am J Neuroradiol** 1996

Feb;17(2):361–3
Intracranial vascular calcifications, glioblastoma multiforme, and lead poisoning. Teo JG, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):576–9
Re: Workup of carotid calcifications [letter; comment] Doris I, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):565. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1495–6.
Utility of screening for coronary artery calcium [editorial; comment] Hundley WG, et al. **Am J Cardiol** 1996 Dec 1;78(11):1265–6. Comment on: Am J Cardiol 1996 Dec 1;78(11):1220–23.
Prognostic significance of coronary calcific deposits in asymptomatic high-risk subjects. Detrano RC, et al. **Am J Med** 1997 Apr;102(4):344–9
Polarizing calcifications [letter] Cook L, et al. **Am J Surg Pathol** 1997 Feb;21(2):255–6
Osseous metaplasia in a preretinal membrane [published erratum appears in Arch Ophthalmol1997 May;115(5):589] Loewenstein JI, et al. **Arch Ophthalmol** 1997 Jan; 115(1):117–9
Acute calcific tendinitis of the hip: case report with magnetic resonance imaging findings. Chow HY, et al. **Arthritis Rheum** 1997 May;40(5):974–7
Systemic scleroderma and perforating granuloma annulare: differential diagnosis from calcinosis. Tajima S, et al. **Dermatology** 1996;192(3):271–3
Progressive facial hemiatrophy: MRI appearances. Taylor HM, et al. **Dev Med Child Neurol** 1997 Jul;39(7):484–6
Is tear calcium an indicator of ocular calcification in patients with chronic renal failure? Oto S, et al. **Eur J Ophthalmol** 1997 Apr–Jun;7(2):181–4
Calcified meningioma of the skull base simulating chondrosarcoma. Geirnaerdt MJ, et al. **Eur J Radiol** 1995 Dec 15;21(2):148–51
MR findings of plasmacytoma with calcified amyloid deposition. Soler R, et al. **Eur J Radiol** 1995 Dec 15; 21(2):152–4
Paraffin tissue block radiography of nonpalpable lesions with calcifications detected at mammography: 5-year consecutive series of surgically excised cases. Thurfjell E, et al. **Eur Radiol** 1997;7(7):1006–9
Primary diffuse alveolar septal amyloidosis with multiple cysts and calcification. Ohdama S, et al. **Eur Respir J** 1996 Jul;9(7):1569–71
Diffuse pulmonary calcinosis without calcium metabolism abnormalities in a renal transplant recipient. Romagnoli M, et al. **Eur Respir J** 1997 Apr;10(4):958–60
Calcific tendinitis of the longus colli muscle. De Maeseneer M, et al. **Head Neck** 1997 Sep;19(6):545–8
Calcified amorphous tumor of the heart (cardiac CAT). Reynolds C, et al. **Hum Pathol** 1997 May;28(5):601–6
A new in vitro test method for calcification of bioprosthetic heart valves. Glasmacher B, et al. **Int J Artif Organs** 1997 May;20(5):267–71
Traumatic autonephrectomy due to explosion: a case report and literature review. Donat R, et al. **Int Urol Nephrol** 1996;28(6):743–6 (10 ref.)
The detection of breast microcalcifications with medical ultrasound. Anderson ME, et al. **J Acoust Soc Am** 1997 Jan;101(1):29–39
Visceral manifestation of AIDS. Lyonnet D, et al. **J Belge Radiol** 1996 Dec;79(6):272
Tumoral calcinosis of the triangular fibrocartilage complex: a case report. Tadjalli HE, et al. **J Hand Surg [Am]** 1997 Mar;22(2):350–3
Digital pulse volume recording: an essential test for the assessment of arteritis in diabetic patients. Kreidy R, et al. **J Med Liban** 1997;45(2):73–7
Calcium pyrophosphate dihydrate deposition disease presenting as tumoral calcinosis (periarticular pseudogout). Luisiri P, et al. **J Rheumatol** 1996 Sep;23(9):1647–50 (18 ref.)
Relationship between calcifying tendinitis and subacromial impingement: a prospective radiography and magnetic resonance imaging study. Loew M, et al. **J Shoulder Elbow Surg** 1996 Jul–Aug;5(4):314–9
Tumoral calcinosis in an infant. Bhagia UT, et al. **J South Orthop Assoc** 1997 Summer;6(2):101–5
Paroxysmal choreoathetosis in a patient with idiopathic basal ganglia calcification, chorea, and dystonia. Klein C, et al. **Mov Disord** 1997 Mar;12(2):254–5
Clinical and radiological evaluation of angiographically occult, calcified intracranial vascular malformation. Case report. Baykal S, et al. **Neurosurg Rev** 1996;19(2):119–21
Mucosal calcified nodule of the hard palate in an infant: case report and review of the literature. Afzal MN, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):611–5 (10 ref.)
Electron-beam CT scanning for detection of coronary calcification and prediction of coronary heart disease. Thompson GR, et al. **QJM** 1996 Aug;89(8):565–70 (34 ref.)
Epidermal inclusion cysts of the breast: three lesions with calcifications. Denison CM, et al. **Radiology** 1997 Aug; 204(2):493–6
Isolated subacromial decompression for the treatment of chronic shoulder pain with rotator cuff calcification. A review of twenty-seven shoulders, including eighteen evaluated by magnetic resonance imaging after surgery. Goutallier D, et al. **Rev Rhum Engl Ed** 1996 May; 63(5):349–57
Tumoral calcinosis in an infant. Richardson PH, et al. **Skeletal Radiol** 1996 Jul;25(5):481–4
Paradoxic appearance of calcification on MRI. Kuzma BB, et al. **Surg Neurol** 1996 Nov;46(5):513–4
Hydroxyapatite crystals in tumoral calcinosis: a case report. Hatori M, et al. **Tohoku J Exp Med** 1996 Dec;180(4):359–64
Tumoural calcinosis. Franceschi F, et al. **Trop Doct** 1997 Oct;27(4):247
[Intracerebral tumor calcifications unrecognized by MRI] Venet C, et al. **J Radiol** 1997 Jan;78(1):55–6 (Eng. Abstr.) **(Fre)**
[Unusually intensively ossified hepatoblastoma (teratoid type) in a 1-year-old girl] Schlecht I, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):201–3 **(Ger)**
[Radiologic-pathologic conference. Nodular fasciitis (clinical conference)] Kolokythas O, et al. **Rontgenpraxis** 1997 Aug; 50(8):229–32 **(Ger)**
[Discussion comment on S. Neumann et al.: Calcifying tendinitis of the femur—diagnosis and differential diagnosis exemplified by 5 cases (letter; comment)] Schilling F. **Z Rheumatol** 1996 Nov–Dec;55(6):426–7. Comment on: Z Rheumatol 1996 Mar–Apr;55(2):114–21. **(Ger)**
[Calcification of the tunica vaginalis] Virseda Rodríguez JA, et al. **Arch Esp Urol** 1997 May;50(4):406–7 (Eng. Abstr.) **(Spa)**
[Primary spontaneous bilateral coronary dissection associated with arterial calcinosis] Acoltzin C, et al. **Gac Med Mex** 1997 Mar–Apr;133(2):149–50 **(Spa)**
[Pericardial calcification and fever] Molina M, et al. **Rev Clin Esp** 1996 Dec;196(12):861–2 **(Spa)**
[Pelvic Castleman's disease: apropos of a case] Calvo Villas JM, et al. **Sangre (Barc)** 1996 Jun;41(3):241–3 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Inhibitory effects of 1-hydroxyethylidene-1,1-bisphosphonate and Chinese traditional (kampo) medicines on calcification of the heart and tongue in DBA/2NCrj mice. Hidaka S, et al. **Am J Chin Med** 1996;24(1):65–75
Regression of calcinosis during diltiazem treatment in juvenile dermatomyositis. Oliveri MB, et al. **J Rheumatol** 1996 Dec;23(12):2152–5
The efficacy of treatment with triamcinolone acetonide in calcinosis cutis following extravasation of calcium gluconate: a preliminary study. Ahn SK, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):103–9

EPIDEMIOLOGY

Pulmonary alveolar microlithiasis: review of Italian reports. Mariotta S, et al. **Eur J Epidemiol** 1997 Jul;13(5):587–90 (40 ref.)
Calcific degeneration of the aortic valve in old age: is the development of flow obstruction predictable? [see comments] Iivanainen AM, et al. **J Intern Med** 1996 Mar; 239(3):269–73. Comment in: J Intern Med 1996 Jul;240(1):43–4.
Breast arterial calcifications: association with diabetes mellitus and cardiovascular mortality. Work in progress. Kemmeren JM, et al. **Radiology** 1996 Oct;201(1):75–8
Calcification of the mitral valve annulus and of the aortic valve in patients with transplanted kidneys. Krauz E, et al. **Transplant Proc** 1996 Dec;28(6):3483–4

ETIOLOGY

Fine needle aspiration biopsy of calcinosis cutis. A case report. Solans EP, et al. **Acta Cytol** 1997 Mar–Apr; 41(2):590–2
Calcification of peripheral nerves in leprosy. Chauhan SL, et al. **Acta Leprol** 1996;10(1):51–6
Hepatic calcification associated with continuous ambulatory peritoneal dialysis [letter] Abbas MA, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1592–3
Tumoral calcinosis caused by underlying renal disease [letter; comment] Steinbach LS, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1621. Comment on: AJR Am J Roentgenol 1996 Sep;167(3):818–9.
Hydroxyapatite pseudopodagra in a young man: acute calcific periarthritis of the first metatarsophalangeal joint. Mines D, et al. **Am J Emerg Med** 1996 Mar;14(2):180–2
Tumoral calcinosis in patients on hemodialysis. Case report and review of the literature. Pečovnik-Balon B, et al. **Am J Nephrol** 1997;17(1):93–5 (16 ref.)
Idiopathic sclerochoroidal calcification in a 41-year-old woman. McCabe CM, et al. **Arch Ophthalmol** 1997 Aug; 115(8):1082–3
Sclerochoroidal calcification in calcium pyrophosphate dihydrate deposition disease (pseudogout) [letter] Shields JA. **Arch Ophthalmol** 1997 Aug;115(8):1077–9
Tumorous calcinosis: a disease of its own? Braun W, et al. **Arch Orthop Trauma Surg** 1996;115(1):53–8
Parathyroid hormone-related peptide as a local regulator of vascular calcification. Its inhibitory action on in vitro calcification by bovine vascular smooth muscle cells. Jono S, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1135–42
Regional distribution of calcification in aortic valve cusps. An in vivo study. Mako WJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M365–7
Fulminant metastatic calcinosis with cutaneous necrosis in a child with end-stage renal disease and tertiary hyperparathyroidism. Zouboulis CC, et al. **Br J Dermatol** 1996 Oct;135(4):617–22
Osteopontin is associated with bioprosthetic heart valve calcification in humans. Shen M, et al. **C R Acad Sci III** 1997 Jan;320(1):49–57
Demonstrations of de-and remineralization mechanism as revealed in synthetic auditory ossicle (Apaceram) of rats by laser-Raman spectrometry. Ohsaki K, et al. **Cell Mol Biol (Noisy-le-grand)** 1995 Dec;41(8):1155–67
Calcifying subpopulation of bovine aortic smooth muscle cells is responsive to 17 beta-estradiol. Balica M, et al. **Circulation** 1997 Apr 1;95(7):1954–60
Lipid hypothesis of cardiovascular calcification [editorial; comment] Demer LL. **Circulation** 1997 Jan 21;95(2):297–8 (18 ref.). Comment on: Circulation 1997 Jan 21;95(2):479–88.
Constrictive pericarditis causing extrinsic mitral stenosis and a left heart mass. Pai RG, et al. **Clin Cardiol** 1996 Jun; 19(6):517–9
Intracranial calcification in nephrogenic diabetes insipidus. Bagga A, et al. **Clin Pediatr (Phila)** 1996 Jan;35(1):34–6
Idiopathic duro-optic calcification [letter; comment] Moseley I. **Clin Radiol** 1996 Oct;51(10):741. Comment on: Clin Radiol 1996 May;51(5):359–61.
The petrified ear—a manifestation of dystrophic calcification [letter] Strumia R, et al. **Dermatology** 1997;194(4):371–3
Medial arterial calcification, calcific aortic stenosis and mitral annular calcification in a diabetic patient with severe autonomic neuropathy. Cronin CC, et al. **Diabet Med** 1996 Aug;13(8):768–70
Accelerated aortic allograft fibrocalcification after right ventricular outflow tract reconstruction in pediatric patients: report of two cases. Santini F, et al. **Eur J Cardiothorac Surg** 1996;10(4):290–3
Metastatic pulmonary calcification after renal transplantation. Murris-Espin M, et al. **Eur Respir J** 1997 Aug;10(8):1925–7
Distal arterial occlusive disease in diabetes is related to medial arterial calcification. Chantelau E, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:11–3
Tumoral calcinosis: a clinicopathological study of 111 cases with emphasis on the earliest changes. Pakasa NM, et al. **Histopathology** 1997 Jul;31(1):18–24
Tumoral calcinosis—a case report. Sagar R, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):309–10
Calcium gluconate—its unusual complication [published erratum appears in Indian Pediatr 1996 Jul;33(7):616] Lakhani JK. **Indian Pediatr** 1996 Jun;33(6):510–2
Calcinosis cutis associated with secondary hyperparathyroidism due to renal failure. Shriner DL, et al. **Int J Dermatol** 1996 Dec;35(12):885–7
Calcification at the posterior pole in scleritis. A case report. Saatci AO, et al. **Int Ophthalmol** 1996–97;20(5):285–7
Calcification of polyurethanes implanted subdermally in rats is enhanced by calciphylaxis. Joshi RR, et al. **J Biomed Mater Res** 1996 Jun;31(2):201–7
Allograft conduit wall calcification in a model of chronic arterial graft rejection. Yankah AC, et al. **J Card Surg** 1997 Mar–Apr;12(2):86–92
In vivo and in vitro models of calcification in porcine aortic valve cusps. Mako WJ, et al. **J Heart Valve Dis** 1997 May; 6(3):316–23 (37 ref.)
Giant calcification in soft tissue after shoulder corticosteroid injection. Toussirot E, et al. **J Rheumatol** 1996 Jan; 23(1):181–2
Calcification potential of small intestinal submucosa in a rat subcutaneous model. Owen TJ, et al. **J Surg Res** 1997 Aug; 71(2):179–86
Symptomatic prostatic calculi—a rare complication after TURP. Koh KB. **Med J Malaysia** 1995 Sep;50(3):280–1
Spontaneous calcification of arteries and cartilage in mice lacking matrix GLA protein. Luo G, et al. **Nature** 1997 Mar 6;386(6620):78–81
A clinical approach to the uraemic patient with extraskeletal calcifications. Drüeke TB. **Nephrol Dial Transplant** 1996; 11 Suppl 3:37–42 (52 ref.)
Calcifying panniculitis in a child after renal transplantation. Koch Nogueira PC, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):216–8
Ectopic bowel calcifications due to hydroxyapatite [letter] Schut NH, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2379–80
Total capsular calcification in a prolactinoma—case report. Horiuchi T, et al. **Neurol Med Chir (Tokyo)** 1996 Oct; 36(10):729–32
Chronic obstructive pancreatitis in humans is a lithiasic disease. Cavallini G, et al. **Pancreas** 1996 Jul;13(1):66–70
The efficacy of treatment with triamcinolone acetonide in calcinosis cutis following extravasation of calcium gluconate: a preliminary study. Ahn SK, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):103–9
Lennox-Gastaut syndrome associated with leukoencephalopathy. Mitsufuji N, et al. **Pediatr Neurol** 1996 Jul;15(1):63–5
Idiopathic arterial calcification and unexpected infant death. Byard RW. **Pediatr Pathol Lab Med** 1996 Nov–Dec; 16(6):985–94
Disseminated calcification with predominant muscle and cerebral involvement in a child with acquired immunodeficiency syndrome: a case report. Liu J, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):593–600
Recurrent dehydration in a young girl. Zaki M, et al. **Postgrad Med J** 1997 Jun;73(860):367–9
Dilated duct pattern at mammography. Huynh PT, et al.

Radiology 1997 Jul;204(1):137–41

Influence of magnesium deficiency on concentration of calcium in soft tissue of uremic rats. Inagaki O, et al. **Ren Fail** 1996 Nov;18(6):847–54

Tumoral calcinosis in hemodialysis patients. A review of three cases. Franco M, et al. **Rev Rhum Engl Ed** 1997 Jan; 64(1):59–62 (19 ref.)

Apoptosis and calcification. Kim KM. **Scanning Microsc** 1995;9(4):1137–75; discussion 1175–8 (350 ref.)

Fibrous tissue overgrowth and prosthetic valve endocarditis: report of a case. Kaneko Y, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):150–2

A long-forgotten ureteral stent. McKiernan JM, et al. **Urology** 1997 Apr;49(4):622–3

[Calcified intertrigo, a rare cause of cutaneous calcinosis] Benkalfate L, et al. **Ann Dermatol Venereol** 1995; 122(11–12):789–92 (Eng. Abstr.) **(Fre)**

[Parietal calcifications of the kidney pelvis in Corynebacterium urealyticum urinary infection] Maciejewski C, et al. **J Radiol** 1996 Aug;77(8):571–3 (12 ref.) (Eng. Abstr.) **(Fre)**

[Axillary lymph node microcalcifications disclosing breast cancer] Marchetti C, et al. **J Radiol** 1997 Jun;78(6):457–9 (Eng. Abstr.) **(Fre)**

[Calcifications of the knee] Delboy T, et al. **Rev Med Interne** 1997;18(3):255–6 **(Fre)**

[Subcutaneous calcinosis] Vignes S, et al. **Rev Med Interne** 1997;18(2):167–8 **(Fre)**

[Epilepsy, cerebral calcifications and celiac disease] Ferroir JP, et al. **Rev Neurol (Paris)** 1997 Jun;153(5):354–6 (10 ref.) (Eng. Abstr.) **(Fre)**

[Experimental study on the pathogenesis of mitral annular calcification: calcium deposits in mitral complex lesions induced by vagal stimulation in rabbits] Ashida T, et al. **J Cardiol** 1997;29 Suppl 2:13–7 (Eng. Abstr.) **(Jpn)**

[A study of aortic calcification uremia] Nakagawa K. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):135–43 (Eng. Abstr.) **(Jpn)**

[A case report of systemic calcinosis associated with rheumatoid arthritis] Doita M, et al. **Ryumachi** 1996 Jun; 36(3):559–64 (Eng. Abstr.) **(Jpn)**

[Calcification of the ear cartilages in a patient with kidney insufficiency: report of a new case (letter)] Miramón López J, et al. **An Med Interna** 1997 Feb;14(2):105–6 **(Spa)**

GENETICS

Expression and localization of bone morphogenetic proteins (BMPs) and BMP receptors in ossification of the ligamentum flavum. Hayashi K, et al. **Bone** 1997 Jul; 21(1):23–30

Spondylo-meta-epiphyseal dysplasia, short limb, abnormal calcification type. al-Gazali LI, et al. **Clin Dysmorphol** 1996 Jul;5(3):197–206

Microcephaly and intracranial calcification: two new cases [letter] Monastiri K, et al. **Clin Genet** 1997 Feb;51(2):142–3

Familial calcification of the superior transverse scapular ligament causing neuropathy. Cohen SB, et al. **Clin Orthop** 1997 Jan;(334):131–5

A novel neurological disorder with progressive CNS calcification, deafness, renal tubular acidosis, and microcytic anemia. Yoshimura M, et al. **Dev Med Child Neurol** 1997 Mar;39(3):198–201

Familial aggregation of medial arterial calcification in Pima Indians with and without diabetes. Narayan KM, et al. **Diabetes Care** 1996 Sep;19(9):968–71

Familial idiopathic brain calcification with autosomal dominant inheritance. Kobari M, et al. **Neurology** 1997 Mar; 48(3):645–9

Analysis of islet regenerating (reg) gene polymorphisms in fibrocalculous pancreatic diabetes. Hawrami K, et al. **Pancreas** 1997 Mar;14(2):122–5

The Aircardi-Goutières syndrome: variable clinical expression in two siblings. Verrips A, et al. **Pediatr Neurol** 1997 May;16(4):323–5

Hyperostosis with hyperphosphatemia: evidence of familial occurrence and association with tumoral calcinosis. Narchi H. **Pediatrics** 1997 May;99(5):745–8 (9 ref.)

[Familial strio-pallido+ +-dentate calcification] Prieto JM, et al. **Rev Neurol** 1997 Aug;25(144):1213–5 (Eng. Abstr.) **(Spa)**

METABOLISM

Lipoprotein lipase correlates positively and hepatic lipase inversely with calcific atherosclerosis in homozygous familial hypercholesterolemia. Dugi KA, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):354–64

Lipid oxidation products have opposite effects on calcifying vascular cell and bone cell differentiation. A possible explanation for the paradox of arterial calcification in osteoporotic patients. Parhami F, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):680–7

Osteopontin is associated with bioprosthetic heart valve calcification in humans. Shen M, et al. **C R Acad Sci III** 1997 Jan;320(1):49–57

Influence of polyethylene glycol graftings on the in vitro degradation and calcification of bovine pericardium. Vasudev SC, et al. **J Biomater Appl** 1997 Apr;11(4):430–52

Increased cellular expression of matrix proteins that regulate mineralization is associated with calcification of native human and porcine xenograft bioprosthetic heart valves. Srivatsa SS, et al. **J Clin Invest** 1997 Mar 1;99(5):996–1009

Apatite deposition in polymyositis subluxing arthropathy. Citera G, et al. **J Rheumatol** 1996 Mar;23(3):551–3

The involvement of subchondral mineralized tissues in osteoarthrosis: quantitative microscopic evidence. Burr DB, et al. **Microsc Res Tech** 1997 May 15;37(4):343–57 (100 ref.)

The interaction of the zone of calcified cartilage and subchondral bone in osteoarthritis. Oegema TR Jr, et al. **Microsc Res Tech** 1997 May 15;37(4):324–32 (75 ref.)

Composition of lung lavage in pulmonary alveolar microlithiasis. Pracyk JB, et al. **Respiration** 1996; 63(4):254–60

[Similarities in calcium and magnesium metabolism between amyotrophic lateral sclerosis and calcification of the spinal cord in the Kii Peninsula ALS focus] Yasui M, et al. **No To Shinkei** 1997 Aug;49(8):745–51 (Eng. Abstr.) **(Jpn)**

[The effect of isradipine on lipid parameters in calcinosis in rats induced by vitamin D3] Kvaszová E, et al. **Bratisl Lek Listy** 1997 Feb;98(2):91–6 (Eng. Abstr.) **(Slo)**

PARASITOLOGY

Case report: calcified pancreas and bile ducts from schistosomiasis. Fataar S, et al. **Br J Radiol** 1996 Nov; 69(827):1064–6

Presentation of parasites and the radiology of parasitic diseases. Zaiman H. **Trop Doct** 1997 Jul;27(3):187

PATHOLOGY

Fine needle aspiration biopsy of calcinosis cutis. A case report. Solans EP, et al. **Acta Cytol** 1997 Mar-Apr; 41(2):590–2

Lithostathine: place in chronic pancreatitis, pathogenesis. Laugier R, et al. **Acta Gastroenterol Belg** 1996 Jul-Sep; 59(3):188–90 (40 ref.)

Calcifications in axillary lymph nodes caused by fat necrosis, redux [letter; comment] Gold RH, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):846. Comment on: AJR Am J Roentgenol 1996 Sep;167(3):627–8.

Potential of quantity of coronary artery calcification to identify new risk factors for asymptomatic atherosclerosis. Maher JE, et al. **Am J Epidemiol** 1996 Nov 15; 144(10):943–53

Pathological case of the month. Meconium periorchitis. Fair KP, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):853–4

Regional distribution of calcification in aortic valve cusps. An in vivo study. Mako WJ, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M365–7

Modifications induced by atherogenic diet in the capacity of the arterial wall in rats to respond to surgical insult. Buján J, et al. **Atherosclerosis** 1996 May;122(2):141–52

Core biopsy for microcalcifications in the breast. Hirst C, et al. **Aust N Z J Surg** 1997 Jun;67(6):320–4

Calcifying liver metastases in a case of primary lung cancer. Balikó Z, et al. **Chest** 1997 Apr;111(4):1121–2

A neuropsychiatric disorder associated with dense calcification of the external ears and distal muscle wasting: 'Primrose syndrome'. Lindor NM, et al. **Clin Dysmorphol** 1996 Jan;5(1):27–34 (17 ref.)

The atherosclerosis-calcification link? Watson KE, et al. **Curr Opin Lipidol** 1996 Apr;7(2):101–4 (34 ref.)

Calcified, cystic brain metastases. Stadnik T, et al. **Eur J Radiol** 1997 Jul;25(1):36–40

Calcifying fibrous pseudotumour of visceral peritoneum. Kocova L, et al. **Histopathology** 1997 Aug;31(2):182–4

Tumoral calcinosis: a clinicopathological study of 111 cases with emphasis on the earliest changes. Pakasa NM, et al. **Histopathology** 1997 Jul;31(1):18–24

Tumoral calcinosis--a case report. Sagar R, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):309–10

Postpartum diffuse calcification of the myometrium. McCluggage WG, et al. **Int J Gynecol Pathol** 1996 Jan; 15(1):82–4

Striopallidodentate calcifications: nosographic, neuropathological and clinical proposal. Case report. Francia A, et al. **Ital J Neurol Sci** 1996 Apr;17(2):169–73

The detection of breast microcalcifications with medical ultrasound. Anderson ME, et al. **J Acoust Soc Am** 1997 Jan;101(1):29–39

Determinants and correlates of target lesion calcium in coronary artery disease: a clinical, angiographic and intravascular ultrasound study. Mintz GS, et al. **J Am Coll Cardiol** 1997 Feb;29(2):268–74

Differential calcification of cusps and aortic wall of failed stented porcine bioprosthetic valves. Biedrzycki LM, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):411–5

Position-related factors in mitral and tricuspid bioprostheses degenerative changes. Leprince P, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):223–6

Calcifying and ossifying soft tissue lesions presenting in the skin [editorial] Fletcher CD. **J Cutan Pathol** 1996 Aug; 23(4):297

Extra-acral calcifying aponeurotic fibroma: a distinctive case with 23-year follow-up. Murphy BA, et al. **J Cutan Pathol** 1996 Aug;23(4):369–72

Tumoral calcinosis: report of a case and brief review of the literature. Abraham Z, et al. **J Dermatol** 1996 Aug; 23(8):545–50 (41 ref.)

Proteins and bioprosthetic calcification in the rat model. Shen M, et al. **J Heart Valve Dis** 1996 Jan;5(1):50–7

Calcifying fibrous pseudotumor of mediastinum--a case report. Jeong HS, et al. **J Korean Med Sci** 1997 Feb; 12(1):58–62 (14 ref.)

Case records of the Department of Medicine, University of Mississippi Medical Center [clinical conference] Nolan RL 3rd, et al. **J Miss State Med Assoc** 1996 Feb;37(2):484–9

Considerations on the tendency for calcification in meningiomas. Müller W, et al. **J Neurosurg Sci** 1996 Jun; 40(2):83–7

Calcification in colorectal hepatic metastases correlates with longer survival. Easson AM, et al. **J Surg Oncol** 1996 Dec; 63(4):221–5

Idiopathic dense calcification of the seminal vesicles. Schned AR, et al. **J Urol** 1997 Jun;157(6):2263

Morphologic response of myocardium to freeze-thaw injury in mouse strains with dystrophic cardiac calcification. Brunnert SR. **Lab Anim Sci** 1997 Feb;47(1):11–8

The involvement of subchondral mineralized tissues in osteoarthrosis: quantitative microscopic evidence. Burr DB, et al. **Microsc Res Tech** 1997 May 15;37(4):343–57 (100 ref.)

Ultrastructural calcification of glomerular immune complexes [see comments] Lai FM, et al. **Mod Pathol** 1996 Jan; 9(1):36–40. Comment in: Mod Pathol 1996 Jul;9(7):800–1.

Correspondence re: Mac-Moune Lai F, To KF, Wang A, et al.: ultrastructural calcification of glomerular immune complexes. Mod Pathol 9:36, 1996 [letter; comment] Trillo A. **Mod Pathol** 1996 Jul;9(7):800–1. Comment on: Mod Pathol 1996 Jan;9(1):36–40.

Progressive subcutaneous and periarticular calcifications in a patient with spinal muscular atrophy type III. Boltshauser E, et al. **Neuropediatrics** 1995 Dec;26(6):331–2

Tophus-like, conglomerated, crystalline calcification of the sclera. Daicker B. **Ophthalmologica** 1996;210(4):223–8

Calcifying fibrous pseudotumor. Fukunaga M, et al. **Pathol Int** 1997 Jan;47(1):60–3

Test and teach. Number eighty three: Part 1. Idiopathic arterial calcification of infancy. Pashankar D, et al. **Pathology** 1997 May;29(2):175, 217

An asymptomatic papule on the face [clinical conference] Evans LA, et al. **Pediatr Dermatol** 1996 May-Jun; 13(3):253–4

Childhood calcinosis cutis. Rodríguez-Cano L, et al. **Pediatr Dermatol** 1996 Mar-Apr;13(2):114–7

Mucosal calcified nodule of the hard palate in an infant: case report and review of the literature. Afzal MN, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug;17(4):611–5 (10 ref.)

Idiopathic arterial calcification and unexpected infant death. Byard RW. **Pediatr Pathol Lab Med** 1996 Nov-Dec; 16(6):985–94

Disseminated calcification with predominant muscle and cerebral involvement in a child with acquired immunodeficiency syndrome: a case report. Liu J, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug;17(4):593–600

Stereotactic core biopsy of calcifications highly suggestive of malignancy. Liberman L, et al. **Radiology** 1997 Jun; 203(3):673–7

Stereotactic breast biopsy of clustered microcalcifications with a directional, vacuum-assisted device. Meyer JE, et al. **Radiology** 1997 Aug;204(2):575–6

Clinical, radiographic, and pathologic features of medical calcific sclerosis in the breast. Kragel PJ, et al. **South Med J** 1997 May;90(5):518–21

Tumoral calcinosis in the upper cervical spine: a case report. Kokubun S, et al. **Spine** 1996 Jan 15;21(2):249–52

Hydroxyapatite crystals in tumoral calcinosis: a case report. Hatori M, et al. **Tohoku J Exp Med** 1996 Dec;180(4):359–64

[Role of microbiopsies in the therapeutic and diagnostic approach in cases of mammary microcalcification: preliminary results] Merviel P, et al. **Bull Cancer** 1996 Jul; 83(7):573–80 (25 ref.) (Eng. Abstr.) **(Fre)**

[Calciphylactic arteriopathy] Seifert G, et al. **Frankf Z Pathol** 1966;75(4):342–61 **(Ger)**

[Proton spin tomography imaging of the rotator cuff in calcific tendinitis of the shoulder] Loew M, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul-Aug;134(4):354–9 (Eng. Abstr.) **(Ger)**

[Are there magnetic resonance tomographic changes following shock-wave treatment of tendinitis calcarea?] Maier M, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar-Apr; 135(2):Oa20–1 **(Ger)**

[Wilms' tumor with marked calcification in an 8-year-old boy: a case report] Mizusawa H, et al. **Hinyokika Kiyo** 1997 May;43(5):351–3 (Eng. Abstr.) **(Jpn)**

[An autopsied case of atypical presenile dementia which shows lobar atrophy, severe neurofibrillary tangles and calcification] Ujihira N, et al. **Rinsho Shinkeigaku** 1997 Apr; 37(4):292–9 (Eng. Abstr.) **(Jpn)**

[Mediacalcinosis of the aorta (pathomorphology and pathogenesis of arterial calcification and its relationship to atherosclerosis)] Sokolova RI. **Arkh Patol** 1996 Sep-Oct; 58(5):31–5 (Eng. Abstr.) **(Rus)**

[Pneumothorax during anesthesia complicating needle aspiration of microcalcifications in the breast. Presentation of a case] Flo A, et al. **Rev Esp Anestesiol Reanim** 1997 Apr;44(4):161 **(Spa)**

PHYSIOPATHOLOGY

A laser microprobe mass analysis of trace elements in brain mineralizations and capillaries in Fahr's disease. Bouras C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):351–7

Renal calcification in preterm infants: follow up at 4–5 years.

Jones CA, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 May;76(3):F185–9

Detection of osteopontin in calcified human aortic valves. Mohler ER 3rd, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):547–52

Stable transfection of nonosteogenic cell lines with tissue nonspecific alkaline phosphatase enhances mineral deposition both in the presence and absence of beta–glycerophosphate: possible role for alkaline phosphatase in pathological mineralization. Hui M, et al. **Calcif Tissue Int** 1997 May;60(5):467–72

Role of molecular regulation in vascular calcification. Parhami F, et al. **J Atheroscler Thromb** 1996;3(2):90–4 (51 ref.)

Calcification of polyurethanes implanted subdermally in rats is enhanced by calciphylaxis. Joshi RR, et al. **J Biomed Mater Res** 1996 Jun;31(2):201–7

Intratubular crystallization events. Kok DJ. **World J Urol** 1997;15(4):219–28 (89 ref.)

The role of the papilla in idiopathic calcium oxalate nephrolithiasis. Krautschick A, et al. **World J Urol** 1997; 15(4):213–8 (59 ref.)

[Physiopathology of chronic calcifying pancreatitis] Bernard JP. **Journ Annu Diabetol Hotel Dieu** 1996;:69–77 (36 ref.) **(Fre)**

PREVENTION & CONTROL

No–react detoxification process: a superior anticalcification method for bioprostheses. Abolhoda A, et al. **Ann Thorac Surg** 1996 Dec;62(6):1724–30

Refinement of the alpha aminooleic acid bioprosthetic valve anticalcification technique. Gott JP, et al. **Ann Thorac Surg** 1997 Jul;64(1):50–8

Calcification in cardiac bioprostheses [letter; comment] Schroll A. **Ann Thorac Surg** 1997 May;63(5):1514–5. Comment on: Ann Thorac Surg 1995 Aug;60(2 Suppl):S332–8.

Is the dog a useful model for accelerated calcification study of cardiovascular bioprostheses? Chanda J, et al. **Artif Organs** 1997 May;21(5):391–5

Changes in polyurethane calcification due to antibiotics. Chandy T, et al. **Artif Organs** 1996 Jul;20(7):752–60

Efficacy of the chitosan posttreatment in calcification prevention of the glutaraldehyde–treated porcine aortic noncoronary cusp implanted in the right ventricular outflow tract in dogs. Kuribayashi R, et al. **Artif Organs** 1996 Jul;20(7):761–6

Prevention of bioprosthetic heart valve calcification by ethanol preincubation. Efficacy and mechanisms [see comments] Vyavahare N, et al. **Circulation** 1997 Jan 21; 95(2):479–88. Comment in: Circulation 1997 Jan 21;95(2):297–8.

Synergistic inhibition of calcification of porcine aortic root with preincubation in FeCl3 and alpha–amino oleic acid in a rat subdermal model. Chen W, et al. **J Biomed Mater Res** 1997 Spring;38(1):43–8

Calcific degeneration of bioprosthetic aortic valves in patients receiving steroid therapy. Eishi K, et al. **J Heart Valve Dis** 1996 Nov;5(6):668–72

Strategies to mitigate mineralization in the bioprosthetic or homograft cusp and aortic wall [editorial] Levy RJ. **J Heart Valve Dis** 1997 Jan;6(1):7–8

In vitro and in vivo effects of tetrakisphosphonates on bone resorption, tumor osteolysis, ectopic calcification, and macrophages. Van Gelder JM, et al. **J Pharm Sci** 1997 Mar;86(3):283–9

Does hormone replacement therapy inhibit coronary artery calcification? Shemesh J, et al. **Obstet Gynecol** 1997 Jun; 89(6):989–92

RADIOGRAPHY

Abdominal visceral calcification in primary amyloidosis: CT findings. Jacobs JE, et al. **Abdom Imaging** 1997 Sep–Oct; 22(5):519–21 (8 ref.)

Computer–aided detection of clustered microcalcifications on digitized mammograms: a robustness experiment. Chang YH, et al. **Acad Radiol** 1997 Jun;4(6):415–8

Interpretation of calcifications in screen/film, digitized, and wavelet–enhanced monitor–displayed mammograms: a receiver operating characteristic study. Kallergi M, et al. **Acad Radiol** 1996 Apr;3(4):285–93

Calcified pelvic mass in a 75–year–old woman. Rizk BM, et al. **Acad Radiol** 1996 Feb;3(2):165–9

An improved computer–assisted diagnostic scheme using wavelet transform for detecting clustered microcalcifications in digital mammograms. Yoshida H, et al. **Acad Radiol** 1996 Aug;3(8):621–7

Calcified amyloidoma of the larynx. Rodríguez–Romero R, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1491–3

Pulmonary alveolar microlithiasis in children: radiographic and high–resolution CT findings. Helbich TH, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):63–5

Effects of ambient light and view box luminance on the detection of calcifications in mammography. Kimme–Smith C, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):775–8

Coronary artery scanning using electron beam computed tomography [editorial; comment] Detrano RC. **Am J Card Imaging** 1996 Apr;10(2):97–100 (35 ref.). Comment on: Am J Card Imaging 1996 Apr;10(2):91–6.

Inter–rater reliability of electron beam computed tomography to detect coronary artery calcification [see comments] Shields JP, et al. **Am J Card Imaging** 1996 Apr;10(2):91–6 . Comment in: Am J Card Imaging 1996 Apr;10(2):97–100.

Comparison of 10, 20, and 40 level electron beam computed tomography studies for coronary calcium. Shields JP, et al. **Am J Card Imaging** 1996 Oct;10(4):235–8

Determinants of transplant–related coronary calcium detected by ultrafast computed tomography scanning. Barbir M, et al. **Am J Cardiol** 1997 Jun 15;79(12):1606–9

Prevertebral calcification masquerading as a hypopharyngeal foreign body. Talmi YP, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):435–6

Calcific tendinitis of the pectoralis major insertion. A report of two cases. Ikegawa S. **Arch Orthop Trauma Surg** 1996; 115(2):118–9

Migration and lymphatic spread of calcified paraffinomas after breast augmentation. Ooi GC, et al. **Australas Radiol** 1996 Nov;40(4):404–7

The incidence of coronary artery calcification on standard thoracic CT scans. Callaway MP, et al. **Br J Radiol** 1997 Jun;70(834):572–4

Caval halo [letter] Rosenfeld K, et al. **Br J Radiol** 1996 Sep; 69(825):883

Patterns of mammographically detected calcifications after breast–conserving therapy associated with tumor recurrence. Dershaw DD, et al. **Cancer** 1997 Apr 1; 79(7):1355–61

Incidence of Armillifer armillatus (pentastome) calcification in the abdomen. Nzeh DA, et al. **Cent Afr J Med** 1996 Jan;42(1):29–31 (08 ref.)

Calcified cardiac lesion. Gopal AK, et al. **Chest** 1996 Oct; 110(4):1097–8

Predictive value of electron beam computed tomography [letter; comment] Detrano R. **Circulation** 1997 Jan 21; 95(2):534; discussion 535–6. Comment on: Circulation 1996 Jun 1;93(11):1951–3.

Images in cardiovascular medicine. Marked calcified left ventricular aneurysm. Nakajima O, et al. **Circulation** 1997 Apr 1;95(7):1974

Electron beam computed tomographic coronary calcium as a predictor of coronary events: comparison of two protocols. Secci A, et al. **Circulation** 1997 Aug 19; 96(4):1122–9

Predictive value of electron beam computed tomography [letter; comment] Steingart RM. **Circulation** 1997 Jan 21; 95(2):534–5; discussion 535–6. Comment on: Circulation 1996 Jun 1;93(11):1951–3.

Case report: computed tomographic appearance of sclerosing peritonitis with gross peritoneal calcification. Loughrey GJ, et al. **Clin Radiol** 1997 Jul;52(7):557–8

Descriptive terms for mammographic abnormalities: observer variation in application. The Northern Region Breast Screening Radiology Audit Group. Simpson W, et al. **Clin Radiol** 1996 Oct;51(10):709–13

Mammograms may convey more than breast cancer risk: breast arterial calcification and arterio–sclerotic related diseases in women of the DOM cohort. van Noord PA, et al. **Eur J Cancer Prev** 1996 Dec;5(6):483–7

Infected ossified lingual thyroid goitre. Plantet MM, et al. **Eur J Radiol** 1997 May;24(3):230–6

Recurring tracheal leiomyoma presenting as a calcified mediastinal mass. Rodríguez E, et al. **Eur J Radiol** 1996 Aug;23(1):82–4

Klippel–Trenaunay syndrome: a very infrequent cause of microcalcifications in mammography. Apesteguía L, et al. **Eur Radiol** 1997;7(1):123–5

The evaluation of mammographic microcalcification as biological malignancy in breast cancer. Tsuchiya A, et al. **Fukushima J Med Sci** 1996 Dec;42(1–2):17–22

3D construction from spiral CT scanning of pericardial calcification. Elhag O, et al. **Heart** 1996 Sep;76(3):213

Severity of coronary artery calcification detected by electron beam computed tomography is related to the risk of restenosis after percutaneous transluminal coronary angioplasty. Takahashi M, et al. **Intern Med** 1997 Apr; 36(4):255–62

Acute calcific tendinitis of the rectus femoris. Sarkar JS, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):814–6

Coronary artery calcification at CT as a predictor for cardiac complications of thoracic surgery. Roth BJ, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):619–22

A method for detecting microcalcifications in digital mammograms. Wallet BC, et al. **J Digit Imaging** 1997 Aug; 10(3 Suppl 1):136–9

Radiology case of the month. Calcified mass and indistinct retroperitoneal landmarks on abdominal radiograph. Ruptured abdominal aortic aneurysm. Romano CC, et al. **J La State Med Soc** 1997 Aug;149(8):267–8

Calcified brain metastases from lung carcinoma [letter] Cacho J, et al. **J Neurol** 1996 Jun;243(6):487–8

3–D histo–radiographic comparison of surgical clearances of microcalcified lesions in breast localization biopsies. Davies JD, et al. **J Pathol** 1997 May;182(1):45–53

Diaphysitis in tumoral calcinosis syndrome. Ballina–García FJ, et al. **J Rheumatol** 1996 Dec;23(12):2148–51

Periosteal new bone formation in Wegener's granulomatosis [letter] Hamidou MA, et al. **J Rheumatol** 1997 Apr; 24(4):814–5

High resolution radiography of cadaveric kidneys: unraveling the mystery of Randall's plaque formation. Stoller ML, et al. **J Urol** 1996 Oct;156(4):1263–6

Heart of the matter in cerebral arterial sclerosis [comment] Crouse JR 3rd. **Lancet** 1996 Sep 21;348(9030):766. Comment on: Lancet 1996 Sep 21;348(9030):776–80.

Computer analysis of mammography phantom images (CAMPI): an application to the measurement of microcalcification image quality of directly acquired digital images. Chakraborty DP. **Med Phys** 1997 Aug; 24(8):1269–77

Image compression in digital mammography: effects on computerized detection of subtle microcalcifications. Chan HP, et al. **Med Phys** 1996 Aug;23(8):1325–36

Comparison of eye position versus computer identified microcalcification clusters on mammograms. Krupinski EA, et al. **Med Phys** 1997 Jan;24(1):17–23

Using tissue texture surrounding calcification clusters to predict benign vs malignant outcomes. Thiele DL, et al. **Med Phys** 1996 Apr;23(4):549–55

An improved shift–invariant artificial neural network for computerized detection of clustered microcalcifications in digital mammograms. Zhang W, et al. **Med Phys** 1996 Apr; 23(4):595–601

Basal ganglia calcification after mumps encephalitis. Abrey LE, et al. **Mov Disord** 1996 Nov;11(6):755–6

Spiral CT angiography: study of stenoses and calcification at the origin of the vertebral artery. Farrés MT, et al. **Neuroradiology** 1996 Nov;38(8):738–43

Radiologic case study. Symptomatic, calcified extruded disk of the thoracic spine. Falbo SE, et al. **Orthopedics** 1997 Jan;20(1):84, 76 (8 ref.)

Computerized classification of malignant and benign microcalcifications on mammograms: texture analysis using an artificial neural network. Chan HP, et al. **Phys Med Biol** 1997 Mar;42(3):549–67

Visibility of microcalcifications in computed and screen–film mammography. Cowen AR, et al. **Phys Med Biol** 1997 Aug;42(8):1533–48

Lung cancer associated with punctate calcification: CT and histological correlation. Nakata H, et al. **Radiat Med** 1997 Mar–Apr;15(2):91–7

Breast imaging case of the day. Recurrent infiltrating ductal carcinoma and radiation–induced dystrophic calcifications. Parker CP, et al. **Radiographics** 1997 Jul–Aug;17(4):1011–3

Breast imaging case of the day. Metastatic calcification in the breast from secondary hyperparathyroidism induced by chronic renal failure. Resnikoff LB, et al. **Radiographics** 1996 Nov;16(6):1512–3

Breast imaging case of the day. Radial scar with micro– and macrocalcifications in association with sclerosing adenosis. Rosiello DC, et al. **Radiographics** 1997 Jan–Feb;17(1):232–5

Breast imaging case of the day. Pure mucinous carcinoma with calcifying matrix. Wilson DA, et al. **Radiographics** 1997 May–Jun;17(3):800–4

Malignant and benign clustered microcalcifications: automated feature analysis and classification [letter; comment] de Kort GA, et al. **Radiology** 1996 Nov; 201(2):581–2. Comment on: Radiology 1996 Mar;198(3):671–8.

Breast calcification and mass detection with mammographic anode–filter combinations of molybdenum, tungsten, and rhodium. Kimme–Smith CM, et al. **Radiology** 1997 Jun; 203(3):679–83

Mammographic findings of recurrent breast cancer after lumpectomy and radiation therapy: comparison with the primary tumor. Philpotts LE, et al. **Radiology** 1996 Dec; 201(3):767–71

Coronary arteries: retrospective cardiac gating technique to reduce cardiac motion artifact at spiral CT. Woodhouse CE, et al. **Radiology** 1997 Aug;204(2):566–9

Association of gastrocnemius tendon calcification with chondrocalcinosis of the knee. Foldes K, et al. **Skeletal Radiol** 1996 Oct;25(7):621–4

Super–acute aseptic spondylitis as the first manifestation of round calcifying nucleopathy in a 77–year–old man. A case report. Kolsi I, et al. **Spine** 1997 Aug 1;22(15):1784–6

Calcification of lumbar ligamentum flavum and facet joints capsule. Ruiz Santiago F, et al. **Spine** 1997 Aug 1; 22(15):1730–4; discussion 1734–5

Calcific enterolithiasis. Sood PC, et al. **Trop Doct** 1997 Jul; 27(3):187–8

Segmental arterial calcification and atheromatosis in a limb with venous angiodysplasia (Klippel–Trenaunay syndrome). Hafner J, et al. **Vasa** 1996;25(3):292–4

[Calcified aneurysm of the right renal artery] Delval O, et al. **J Radiol** 1997 Apr;78(4):317–9 **(Fre)**

[Severe calcifying atherosclerosis of the thoracic aorta with symptoms of aortic isthmus stenosis. Case report] Froelich JJ, et al. **Radiologe** 1997 Feb;37(2):173–6 (Eng. Abstr.) **(Ger)**

[Calcium in the lung or: it might not always be tuberculosis] Henk CB, et al. **Radiologe** 1996 Jul;36(7):534–42 (37 ref.) (Eng. Abstr.) **(Ger)**

[Incidental CT finding: calcinosis of the anterior eye segment. Senile scleral plaques] Windmann R, et al. **Radiologe** 1996 Sep;36(9):759–61 **(Ger)**

[Digital storage phosphor mammography in a magnification technic: experimental studies for spatial resolution and for detection of microcalcifications] Funke M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):174–9 (Eng. Abstr.) **(Ger)**

[Spiral CT for the detection of coronary artery calcifications and the prognosis of coronary heart disease––a comparison with fluoroscopy and coronary angiography] Heussel CP, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997

Jul;167(1):16–23 (Eng. Abstr.) **(Ger)**

[Metastatic pulmonary calcification as a rare complication of terminal kidney failure: the x-ray and CT findings] Reuter M, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Nov;165(5):493–5 (13 ref.) **(Ger)**

[Chronic calcifying aspergilloma (clinical conference)] Aschoff AJ, et al. **Rontgenpraxis** 1996 Jan;49(1):12–3 **(Ger)**

[What is your diagnosis? Bilateral idiopathic calcification of the ear cartilages] Kleeman D, et al.
Schweiz Rundsch Med Prax 1997 Jan 14;86(3):31–3 **(Ger)**

[Differential radiation diagnosis of microcalcinates grouped in breast] Kharchenko VP, et al.
Vestn Rentgenol Radiol 1997 Jul–Aug;(4):13–7 (Eng. Abstr.) **(Rus)**

[The simple radiographic image] Santín G. **Gac Med Mex** 1996 May–Jun;132(3):335–6 **(Spa)**

[Calcified peri-tendinitis of the hand is often misdiagnosed] Tordai P, et al. **Lakartidningen** 1997 Sep 3;94(36):3038–40 **(Swe)**

RADIONUCLIDE IMAGING

Metastatic calcification: accumulation of a bone tracer during dynamic data acquisition. Kinuya S, et al.
Ann Nucl Med 1996 Nov;10(4):433–5

Tc-99m MDP uptake in a calcified untreated non-Hodgkin's lymphoma of spleen. Kim P, et al. **Clin Nucl Med** 1997 May;22(5):343–4

Intense myocardial and lung uptake of 99m-Tc-pyrophosphate using single photon emission computed tomography in a patient with end-stage renal disease and secondary hyperparathyroidism. Cesani F, et al. **Int Urol Nephrol** 1996;28(4):569–74

Parathyroid carcinoma with metastatic calcification identified by technetium-99m methylene diphosphonate scintigraphy. Aso Y, et al. **Intern Med** 1996 May;35(5):392–5

Reversible extraskeletal uptake of bone scanning in primary hyperparathyroidism. Hwang GJ, et al. **J Nucl Med** 1996 Mar;37(3):469–71

Incrustation and uptake of skeletal imaging agent in transitional cell carcinoma. Taniguchi M, et al.
J Nucl Med 1997 Aug;38(8):1206–7

Pulmonary gallium-67 uptake in diffuse pulmonary calcinosis. Yeo E, et al. **Pediatr Radiol** 1996 Nov; 26(11):825–6

Coronary calcification detected by ultrafast computed tomography is a predictor of cardiac events in heart transplant recipients. Lazem F, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):572–5

SURGERY

Arthroscopic excision of intra-articular ossifications. A case report and review of the literature. Rooney RC, et al.
Am J Orthop 1996 Jun;25(6):437–40 (7 ref.)

Calcified embolus of the left coronary ostia after aortic valve replacement. Folliguet TA, et al. **Ann Thorac Surg** 1997 Apr;63(4):1162–3

"Patch-glue" annular reconstruction for mitral valve replacement in severely calcified mitral annulus. Ruvolo G, et al. **Ann Thorac Surg** 1997 Feb;63(2):570–1

1989: Mitral annular calcification: a new technique for valve replacement. Updated in 1997. Vander Salm TJ, et al.
Ann Thorac Surg 1997 Jun;63(6):1819–20

Surgical management of calcinosis cutis universalis in systemic lupus erythematosus. Cousins MA, et al.
Arthritis Rheum 1997 Mar;40(3):570–2

Digital calcification in systemic sclerosis: effective treatment with good tissue preservation using the carbon dioxide laser. Bottomley WW, et al. **Br J Dermatol** 1996 Aug; 135(2):302–4

Breast infarction in a patient with chronic renal failure: a case report. Janigan DT, et al. **Can J Surg** 1996 Dec; 39(6):507–9

Calcific tendinitis of the rotator cuff with trochiteal osteolysis. A rare clinical radiologic complication. Porcellini G, et al. **Chir Organi Mov** 1996 Apr–Jun; 81(2):207–12 **(Eng, Ita)**

Laparoscopic cholecystectomy is a safe procedure for the treatment of porcelain gallbladder. Tomioka T, et al.
Endoscopy 1997 Mar;29(3):225

Tumoral calcinosis of the plantar forefoot: a case study. Boc SF, et al. **J Am Podiatr Med Assoc** 1996 Feb;86(2):99–103

Acute carpal tunnel syndrome caused by hydroxyapatite crystals: a case report. Verfaillie S, et al.
J Hand Surg [Am] 1996 May;21(3):360–2

Subcutaneous extensor tendon rupture associated with calcium pyrophosphate dihydrate crystal deposition disease of the wrist. Taniguchi Y, et al. **J Hand Surg [Br]** 1997 Jun;22(3):386–7

Straddling endoventricular pericardial patch in mitral valve repair with the sliding leaflet technique. Arena V, et al.
J Heart Valve Dis 1996 Sep;5(5):567–9

Tumoral calcinosis of the cervical spine in an infant. Case illustration. Mooney JF 3rd, et al. **J Neurosurg** 1997 Jan; 86(1):162

3-D histo-radiographic comparison of surgical clearances of microcalcified lesions in breast localization biopsies. Davies JD, et al. **J Pathol** 1997 May;182(1):45–53

Tumoral calcinosis in an infant. Bhagia UT, et al.
J South Orthop Assoc 1997 Summer;6(2):101–5

Huge calcified chronic subdural hematoma in the elderly--report of a case. Loh JK, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1997 Apr; 13(4):272–6

Huge colloid cyst of the third ventricle associated with calcification in the cyst wall. Yüceer N, et al.
Neurosurg Rev 1996;19(2):131–3

Anterior decompression and fusion using bone grafts obtained from cervical vertebral bodies for ossification of the posterior longitudinal ligament of the cervical spine: technical note. Isu T, et al. **Neurosurgery** 1997 Apr; 40(4):866–9; discussion 869–70

Wandering calcified ovary in children. Keshtgar AS, et al.
Pediatr Surg Int 1997 Feb;12(2-3):215–6

Calcinosis cutis requiring sculpturing in scleroderma [letter] Sengezer M, et al. **Plast Reconstr Surg** 1996 Dec; 98(7):1319–21

Isolated subacromial decompression for the treatment of chronic shoulder pain with rotator cuff calcification. A review of twenty-seven shoulders, including eighteen evaluated by magnetic resonance imaging after surgery. Goutallier D, et al. **Rev Rhum Engl Ed** 1996 May; 63(5):349–57

Radical endarterectomy of severely calcified ascending aorta prevents stroke during open-heart surgery. Koul B, et al.
Scand Cardiovasc J 1997;31(1):33–7

Selecting a surgical method for thoracic myelopathy caused by ossification of the posterior longitudinal ligament. Kurosa Y, et al. **Spine** 1996 Jun 15;21(12):1458–66

[Ileus in extensive intra-abdominal calcinosis after peritonitis] Angele M, et al. **Chirurg** 1997 Jun;68(6):646–8 (Eng. Abstr.) **(Ger)**

[Arthroscopic therapy of tendinitis calcarea--acromioplasty or removal of calcium?] Jerosch J, et al. **Unfallchirurg** 1996 Dec;99(12):946–52 (Eng. Abstr.) **(Ger)**

THERAPY

Technique for treating calcific tendinitis [letter] Frazier CH.
Am J Orthop 1997 Apr;26(4):292

Oh no, even stenting is affected by calcium! [editorial; comment] Hodgson JM. **Cathet Cardiovasc Diagn** 1996 Jul; 38(3):236–7. Comment on: Cathet Cardiovasc Diagn 1996 Jul;38(3):229–35.

Safety and efficacy of elective stent implantation following rotational atherectomy in large calcified coronary arteries. Hong MK, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:50–4

Acute recoil of Palmaz-Schatz stent: a rare cause of suboptimal stent implantation--report of two cases with intravascular ultrasound findings. Itoh A, et al.
Cathet Cardiovasc Diagn 1996 Mar;37(3):334–8

Coronary stenting after rotational atherectomy in calcified and complex lesions. Angiographic and clinical follow-up results. Moussa I, et al. **Circulation** 1997 Jul 1;96(1):128–36

Chronic calcifying tendinitis of the shoulder-therapy by percutaneous needle aspiration and lavage: a prospective open study of 62 shoulders. Pfister J, et al.
Clin Rheumatol 1997 May;16(3):269–74

Acute calcification of the peroneal tendons in a sheep shearer. Williams CR. **Foot Ankle Int** 1996 Jan;17(1):49–50

Resolution of calcium deposits after therapeutic ultrasound of the shoulder [letter] Ebenbichler GR, et al.
J Rheumatol 1997 Jan;24(1):235–6

Use of extracorporeal shock waves in the treatment of pseudarthrosis, tendinopathy and other orthopedic diseases. Haupt G. **J Urol** 1997 Jul;158(1):4–11 (151 ref.)

Management of microcalcifications that develop at the lumpectomy site after breast-conserving therapy. Vora SA, et al. **Radiology** 1997 Jun;203(3):667–71

Rotator cuff calcifications: treatment with ultrasound-guided percutaneous needle aspiration and lavage. Farin PU, et al. **Skeletal Radiol** 1996 Aug;25(6):551–4

Minimally invasive management of the calcified ureteral stent. Shandera KC. **Tech Urol** 1997 Spring;3(1):54–7

Ultrasonic decalcification of calcified valve and annulus during heart valve replacement. Unal M, et al.
Tex Heart Inst J 1996;23(2):85–7

[Amyloidosis of a coral reef infrarenal aorta] Combe J, et al. **J Mal Vasc** 1997;22(1):43–7 (Eng. Abstr.) **(Fre)**

[Extracorporeal shockwave therapy in orthopedics. Positive results in tennis elbow and tendinosis calcarea of the shoulder] Rompe JD, et al. **Fortschr Med** 1997 Jun 30; 115(18):26, 29–33 (Eng. Abstr.) **(Ger)**

[Are there magnetic resonance tomographic changes following shock-wave treatment of tendinitis calcarea?] Maier M, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar-Apr; 135(2):Oa20–1 **(Ger)**

ULTRASONOGRAPHY

Frequency of mitral annular calcification in patients on hemodialysis estimated by 2-dimensional echocardiography. Raos V, et al. **Acta Med Croatica** 1996; 50(4–5):179–83

Ultrasound in the detection of breast cancer associated with isolated clustered microcalcifications, mammographically identified. Ranieri E, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2831–5

Ultrasound of malignant breast microcalcifications: role in evaluation and guided procedures. Rickard MT.
Australas Radiol 1996 Feb;40(1):26–31

In vivo demonstration of microcalcification in breast cancer using high resolution ultrasound. Yang WT, et al.
Br J Radiol 1997 Jul;70(835):685–90

Oh no, even stenting is affected by calcium! [editorial; comment] Hodgson JM. **Cathet Cardiovasc Diagn** 1996 Jul; 38(3):236–7. Comment on: Cathet Cardiovasc Diagn 1996 Jul;38(3):229–35.

Acute recoil of Palmaz-Schatz stent: a rare cause of suboptimal stent implantation--report of two cases with intravascular ultrasound findings. Itoh A, et al.
Cathet Cardiovasc Diagn 1996 Mar;37(3):334–8

Sterile, caseous mitral valve "abscess" mimicking infective endocarditis. Gilbert HM, et al. **Clin Infect Dis** 1997 May; 24(5):1015–6

Testicular microlithiasis: case report and discussion of management under special consideration of testicular germ cell tumours. Wegner HE, et al. **Int Urol Nephrol** 1996; 28(4):533–7

Echocardiographic assessment of commissural calcium: a simple predictor of outcome after percutaneous mitral balloon valvotomy. Cannan CR, et al.
J Am Coll Cardiol 1997 Jan;29(1):175–80

Transesophageal echocardiography in the presence of left atrial calcification. Goel AK, et al.
J Am Soc Echocardiogr 1997 Jul-Aug;10(6):677–9

Embolic thrombus on mitral anulus calcification. Malaterre HR, et al. **J Am Soc Echocardiogr** 1996 Nov-Dec; 9(6):894–6

An unusual left ventricular transesophageal echocardiogram. Suriani RJ. **J Cardiothorac Vasc Anesth** 1997 Jun; 11(4):528–9

Sclerosing peritonitis with gross peritoneal calcification and abdominal wall abscess secondary to bowel perforation: ultrasonographic appearance. Verbanck JJ, et al.
J Clin Ultrasound 1997 Mar-Apr;25(3):136–40

Is pre-intervention intravascular ultrasound necessary in evaluating target lesion calcification in patients undergoing transcatheter therapy? Wang J, et al. **Jpn Circ J** 1996 Aug; 60(8):567–74

The incidence and significance of increased backscatter in myocardial ultrasonography of patients on hemodialysis. Cetinkaya F, et al. **Nephron** 1996;73(2):191–4

[Can the high-resolution 13-MHz ultrasonography facilitate the preoperative localization and marking of microcalcification clusters?] Kenzel PP, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Dec;165(6):551–6 (Eng. Abstr.) **(Ger)**

[Testicular microlithiasis and OAT syndrome] Bölter S, et al. **Rontgenpraxis** 1997 Jul;50(7):212–3 **(Ger)**

[What is your diagnosis? Calcified Echinococcus cysts in the spleen] Braunschweig M. **Schweiz Rundsch Med Prax** 1997 May 21;86(21):885–6 **(Ger)**

[Calcifying giant-cell Sertoli tumor: description of a case wtih atypical echographic presentation] Moro U, et al.
Arch Ital Urol Androl 1996 Dec;68(5 Suppl):105–8 (19 ref.) (Eng. Abstr.) **(Ita)**

[Combined calcified valvular disease] Ishimitsu T.
Ryoikibetsu Shokogun Shirizu 1996;(13):385–8 (8 ref.) **(Jpn)**

[Calcifications visible in mammographic examination as a diagnostic problem] Urbanowicz Z, et al. **Ginekol Pol** 1996 Jul;67(7):366–9 (17 ref.) (Eng. Abstr.) **(Pol)**

[Influence of the degree of aortic valve calcification on the estimate of valvular area using planimetry with transesophageal echocardiography] de la Fuente Galán L, et al. **Rev Esp Cardiol** 1996 Sep;49(9):663–8 (Eng. Abstr.) **(Spa)**

VETERINARY

Calcification of intervertebral discs in the dachshund: a radiographic study of 115 dogs at 1 and 5 years of age. Stigen O. **Acta Vet Scand** 1996;37(3):229–37

Pathogenesis of vitamin (A and D)-induced premature growth-plate closure in calves. Woodard JC, et al.
Bone 1997 Aug;21(2):171–82

What is your diagnosis? A case of calcinosis in a dog is diagnosed. Ferguson JF. **J Small Anim Pract** 1996 Sep; 37(9):447, 452

Co-variance of chemically and histologically analysed severity of dystrophic cardiac calcification in mice. van den Broek FA, et al. **Lab Anim** 1997 Jan;31(1):74–80

Dystrophic cardiac calcinosis in C3H/HeN mice. Vargas KJ, et al. **Lab Anim Sci** 1996 Oct;46(5):572–5

Force-plate analysis of gait before and after surgical excision of calcified lesions of the supraspinatus tendon in two dogs. Muir P, et al. **Vet Rec** 1996 Aug 10;139(6):137–9

CALCIPHYLAXIS

Calciphylaxis [letter; comment] Walsh JS, et al.
J Am Acad Dermatol 1996 Nov;35(5 Pt 1):786–7. Comment on: J Am Acad Dermatol 1995 Dec;33(6):954–62.

COMPLICATIONS

Diabetes, tissue infarction, and calciphylaxis [letter; comment] Goldsmith DJ. **Am J Med** 1997 Aug; 103(2):171–2. Comment on: Am J Med 1996 Sep;101(3):245–50.

Proximal cutaneous necrosis in association with chronic renal failure. Whittam LR, et al. **Br J Dermatol** 1996 Nov; 135(5):778–81

Calciphylaxis, thrombotic diathesis and defects in coagulation regulation [letter] Goldsmith DJ.
Nephrol Dial Transplant 1997 May;12(5):1082–3

DIAGNOSIS

Diabetes, tissue infarction, and calciphylaxis [letter; comment] Goldsmith DJ. **Am J Med** 1997 Aug; 103(2):171–2. Comment on: Am J Med 1996 Sep;101(3):245–50.
Calciphylaxis: a condition mimicking necrotizing vasculitis. Melikoglu M, et al. **Clin Rheumatol** 1996 Sep;15(5):498–500
A woman with painful skin ulceration after angioplasty. Choucair M, et al. **Hosp Pract (Off Ed)** 1997 Apr 15; 32(4):177, 181–2, 184
Calciphylaxis in two non–compliant patients with end–stage renal failure. McAuley K, et al.
Nephrol Dial Transplant 1997 May;12(5):1061–3

ETIOLOGY

Calciphylaxis in a patient with Crohn's disease in the absence of end–stage renal disease. Barri YM, et al.
Am J Kidney Dis 1997 May;29(5):773–6 (34 ref.)
Proximal calciphylaxis in four insulin–requiring diabetic hemodialysis patients [letter; comment] Handa SP, et al. **Am J Kidney Dis** 1997 May;29(5):812. Comment on: Am J Kidney Dis 1996 Sep;28(3):409–14.
Calciphylaxis in chronic renal failure. Budisavljevic MN, et al. **J Am Soc Nephrol** 1996 Jul;7(7):978–82 (18 ref.)
Ecchymoses and eschars at sites of injection. Pan D, et al. **Lancet** 1997 May 10;349(9062):1364
Calciphylaxis in two non–compliant patients with end–stage renal failure. McAuley K, et al.
Nephrol Dial Transplant 1997 May;12(5):1061–3
Calciphylaxis in a haemodialysis patient: functional protein S deficiency? Perez–Mijares R, et al.
Nephrol Dial Transplant 1996 Sep;11(9):1856–9
Calciphylaxis mimicking skin lesions of connective tissue diseases. Lue C, et al. **South Med J** 1996 Nov; 89(11):1099–100

PATHOLOGY

Calciphylaxis with histologic changes of pseudoxanthoma elasticum. Nikko AP, et al. **Am J Dermatopathol** 1996 Aug; 18(4):396–9
Calciphylaxis causing localized tongue necrosis: a case report. Bedoya RM, et al. **J Oral Maxillofac Surg** 1997 Feb; 55(2):193–6

PREVENTION & CONTROL

Low–calcium dialysis in calciphylaxis [letter] Lipsker D, et al. **Arch Dermatol** 1997 Jun;133(6):798–9

CALCITONIN

see related
RECEPTORS, CALCITONIN

Diagnostic and therapeutic aspects of calciotropic hormones. Cormier C, et al. **Curr Opin Rheumatol** 1997 Jul;9(4):370–6 (40 ref.)
There's something fishy and perhaps even fowl about the mammalian calcitonin receptor and its ligand [editorial; comment] Deftos LJ. **Endocrinology** 1997 Feb; 138(2):519–20. Comment on: Endocrinology 1997 Feb;138(2):521–9. Comment on: Endocrinology 1997 Feb;138(2):530–9.
Abstracts from the 12th annual meeting of the section on calcium regulating hormones and bone metabolism of the German Endocrine Society. Heidelberg, October 11–12, 1996. **Exp Clin Endocrinol Diabetes** 1996;104(4):A10–24

ADMINISTRATION & DOSAGE

Equivalence of nasal spray and subcutaneous formulations of salmon calcitonin. Combe B, et al. **Calcif Tissue Int** 1997 Jul;61(1):10–5
Nasal calcitonin. Silverman SL. **Endocrine** 1997 Apr; 6(2):199–202 (30 ref.)
A randomized controlled trial to compare the efficacy of cyclical parathyroid hormone versus cyclical parathyroid hormone and sequential calcitonin to improve bone mass in postmenopausal women with osteoporosis. Hodsman AB, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):620–8
Skeletal effects of cyclic recombinant human growth hormone and salmon calcitonin in osteopenic postmenopausal women. Holloway L, et al.
J Clin Endocrinol Metab 1997 Apr;82(4):1111–7
Effect of processing parameters on the properties of peptide–containing PLGA microspheres. Jeyanthi R, et al.
J Microencapsul 1997 Mar–Apr;14(2):163–74
Drug reservoir composition and transport of salmon calcitonin in transdermal iontophoresis. Santi P, et al.
Pharm Res 1997 Jan;14(1):63–6
Temperature and pH–sensitive polymers for human calcitonin delivery. Serres A, et al. **Pharm Res** 1996 Feb; 13(2):196–201
Salmon calcitonin and calcium in the treatment of male osteoporosis: the effect on bone mineral density. Erlacher L, et al. **Wien Klin Wochenschr** 1997 Apr 25;109(8):270–4
[A 63–year–old otherwise healthy patient with bone metastatic prostate carcinoma of one year duration, with osteolytic metastasis to the left os pubis, os ischii and acetabulum] **Internist (Berl)** 1996 May;37(5):521–3 **(Ger)**
[Hormone replacement therapy (HRT). The effects at 12 months on the risk factors for menopausal osteoporosis] Camilli A, et al. **Minerva Ginecol** 1997 May;49(5):193–8 (Eng. Abstr.) **(Ita)**

ANALOGS & DERIVATIVES

A novel biologically active eel calcitonin analogue with carboxyl terminal Hse32–amide: carboxyl terminal Pro32–amide in calcitonin is not essential for biological activity. Yoshina S, et al. **Biochem Mol Biol Int** 1996 Nov; 40(5):923–9
In vitro skin penetration and degradation of enkephalin, elcatonin and insulin. Ogiso T, et al. **Biol Pharm Bull** 1997 Jan;20(1):54–60
Effects of cyclic therapy with intranasal carbocalcitonin in healthy spontaneous postmenopausal women. De Aloysio D, et al. **Clin Exp Obstet Gynecol** 1996;23(2):87–93
Determinants for calcitonin analog interaction with the calcitonin receptor N–terminus and transmembrane–loop regions. Stroop SD, et al. **Endocrinology** 1996 Nov; 137(11):4752–6
A 3–year pilot study with 1,25–dihydroxyvitamin D, calcium, and calcitonin for severe osteodystrophy in primary biliary cirrhosis. Floreani A, et al. **J Clin Gastroenterol** 1997 Jun; 24(4):239–44
Optic neuropathy following elcatonin therapy. Kimura H, et al. **J Neuroophthalmol** 1996 Jun;16(2):134–6
Elcatonin raises levels of vasoactive intestinal peptide in human plasma. Takeyama M, et al. **J Pharm Pharmacol** 1996 Jun;48(6):657–9
Structure/function relationships of calcitonin analogues as agonists, antagonists, or inverse agonists in a constitutively activated receptor cell system. Pozvek G, et al.
Mol Pharmacol 1997 Apr;51(4):658–65
Analytical strategies in the structural characterization of elcatonin. Mauri PL, et al.
Rapid Commun Mass Spectrom 1997;11(12):1292–6
[Elcatonin Reference Standard (Control 921) of National Institute of Health Sciences] Okada S, et al.
Eisei Shikenjo Hokoku 1994;(112):161–6 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Two–site immunofluorometric assay of intact salmon calcitonin with improved sensitivity. Rong H, et al.
Clin Chem 1997 Jan;43(1):71–5
Immunocytochemical localization of hormones and functional proteins in cultured cells of thyroid medullary carcinoma. Seidel J, et al. **Folia Histochem Cytobiol** 1996; 34 Suppl 1:67–8
Reversed–phase high–performance liquid chromatography of salmon calcitonin and its degradation products in biological samples using column switching and flow–through radioisotope detection. Lee HS, et al.
J Chromatogr B Biomed Appl 1995 Nov 3;673(1):136–41
Reversed–phase high–performance liquid chromatography of radioiodinated salmon calcitonins. Lee KC, et al.
J Chromatogr B Biomed Appl 1997 Jun 20;694(1):31–7
A noncompetitive enzyme immunoassay (hetero–two–site enzyme immunoassay) for salmon calcitonin: determination of the bioavailability of subcutaneous salmon calcitonin and its correlation with the hypocalcemic activity in rats. Kohno T, et al. **J Clin Lab Anal** 1996;10(2):91–7
Novel mouse IgG–like immunoreactivity expressed by neurons in the moth Manduca sexta: developmental regulation and colocalization with crustacean cardioactive peptide. Klukas KA, et al. **Microsc Res Tech** 1996 Oct 15;35(3):242–64
[Calcitonin–producing neuroendocrine carcinoma of the larynx: atypical carcinoid tumor] Morales C, et al.
Acta Otorrinolaringol Esp 1996 Jul–Aug;47(4):333–5 (Eng. Abstr.) **(Spa)**
[Tumor markers in medullary thyroid carcinoma. Biochemical and immunohistochemical study (letter)] López–Guzmán A, et al. **An Med Interna** 1996 Jul; 13(7):358–9 **(Spa)**

BIOSYNTHESIS

Expression of glucagon–like peptide 1 receptor in a murine C cell line: regulation of calcitonin gene by glucagon–like peptide 1. Lamari Y, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):248–52
Demonstration of calcitonin mRNA in rat thyroid C–cells and endocrine cells of the lung: comparison of immunocytochemical and hybridocytochemical results. Kasprzak A, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:9–10
Effect of co–culture with thyroid follicular cells on expression of calcitonin gene in parafollicular TT cells. Zabel M, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:65–6
Localization of calcitonin mRNA using in situ labeling with reverse transcriptase and PCR. Zabel M, et al.
Folia Histochem Cytobiol 1996;34 Suppl 1:7–8
Binding of upstream stimulatory factor and a cell–specific activator to the calcitonin/calcitonin gene–related peptide enhancer. Lanigan TM, et al. **J Biol Chem** 1997 Jul 18; 272(29):18316–24
RREB–1, a novel zinc finger protein, is involved in the differentiation response to Ras in human medullary thyroid carcinomas. Thiagalingam A, et al. **Mol Cell Biol** 1996 Oct; 16(10):5335–45
Calcitonin mRNA is produced in liver by two different splicing pathways. Bracq S, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):111–5
Expression of the calcitonin gene family in medullary thyroid carcinoma. Schifter S. **Peptides** 1997;18(2):307–17 (151 ref.)
Production of bioactive salmon calcitonin from the nonendocrine cell lines COS–7 and CHO. Takahashi KI, et al. **Peptides** 1997;18(3):439–44
A complex of nuclear proteins mediates SR protein binding to a purine–rich splicing enhancer. Yeakley JM, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7582–7
An expression system for the single–step production of recombinant human amidated calcitonin. Merli S, et al.
Protein Expr Purif 1996 Jun;7(4):347–54

BLOOD

Procalcitonin and C–reactive protein levels in neonatal infections. Monneret G, et al. **Acta Paediatr** 1997 Feb; 86(2):209–12
Usefulness of procalcitonin for differentiation between activity of systemic autoimmune disease (systemic lupus erythematosus/systemic antineutrophil cytoplasmic antibody–associated vasculitis) and invasive bacterial infection. Eberhard OK, et al. **Arthritis Rheum** 1997 Jul; 40(7):1250–6
Evolution and significance of circulating procalcitonin levels compared with IL–6, TNF alpha and endotoxin levels early after thermal injury. Carsin H, et al. **Burns** 1997 May; 23(3):218–24
Measurement of procalcitonin levels in children with bacterial or viral meningitis. Gendrel D, et al.
Clin Infect Dis 1997 Jun;24(6):1240–2
Cytokines, nitrite/nitrate, soluble tumor necrosis factor receptors, and procalcitonin concentrations: comparisons in patients with septic shock, cardiogenic shock, and bacterial pneumonia. de Werra I, et al. **Crit Care Med** 1997 Apr;25(4):607–13
Effect of classic heatstroke on serum procalcitonin. Nylén ES, et al. **Crit Care Med** 1997 Aug;25(8):1362–5
Procalcitonin––influence of temperature, storage, anticoagulation and arterial or venous asservation of blood samples on procalcitonin concentrations. Meisner M, et al.
Eur J Clin Chem Clin Biochem 1997 Aug;35(8):597–601
Procalcitonin in acute malaria. Al–Nawas B, et al.
Eur J Med Res 1997 May 28;2(5):206–8
The effect of photoperiod and food intake on daily changes in plasma calcitonin in broiler breeder hens. Klandorf H, et al. **Gen Comp Endocrinol** 1997 Sep;107(3):327–40
Procalcitonin, a marker of bacterial infection [editorial] Gendrel D, et al. **Infection** 1997 May–Jun;25(3):133–4
Procalcitonin in patients with and without immunosuppression and sepsis. al–Nawas B, et al.
Infection 1996 Nov–Dec;24(6):434–6
Omeprazole: calcitonin stimulation test for the diagnosis follow–up and family screening in medullary thyroid carcinoma. Erdoğan MF, et al.
J Clin Endocrinol Metab 1997 Mar;82(3):897–9
The goitrous patient with an elevated serum calcitonin––what to do? [editorial; comment] Horvit PK, et al.
J Clin Endocrinol Metab 1997 Feb;82(2):335–7 (24 ref.). Comment on: J Clin Endocrinol Metab 1997 Feb;82(2):338–41.
Interest of routine measurement of serum calcitonin: study in a large series of thyroidectomized patients. The French Medullary Study Group [see comments] Niccoli P, et al.
J Clin Endocrinol Metab 1997 Feb;82(2):338–41. Comment in: J Clin Endocrinol Metab 1997 Feb;82(2):335–7. Comment in: J Clin Endocrinol Metab 1997 Aug;82(3):2755.
Interest of routine measurement of serum calcitonin: study of thyroidectomized patients [letter; comment] Sato H, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2755. Comment on: J Clin Endocrinol Metab 1997 Feb;82(2):338–41.
Routine measurement of plasma calcitonin in nodular thyroid diseases. Vierhapper H, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1589–93
Plasma level monitoring of nasal salmon calcitonin in the rat by a heterogeneous two–site enzyme immunoassay. Nakamuta H, et al. **J Clin Lab Anal** 1997;11(3):129–31
Hypercalcitoninemia and inappropriate calciuria in the acute trauma patient. Koch SM, et al. **J Crit Care** 1996 Sep; 11(3):117–21
PDN–21 in premenopausal women with systemic lupus erythematosus treated with glucocorticoids. Navarro MA, et al. **J Rheumatol** 1995 Dec;22(12):2238–40
The calcitonin–calcium relation curve and calcitonin secretory parameters in renal patients with variable degrees of renal function. Messa P, et al.
Nephrol Dial Transplant 1995 Dec;10(12):2259–65
Transperitoneal removal of osteocalcin, calcitonin and parathyroid hormone in patients treated by CAPD [letter] Stefanović V, et al. **Nephron** 1996;74(1):216–7
Circulating monomer–like calcitonin in osteoporotic patients. Rong H, et al. **Osteoporos Int** 1996;6(5):394–8
Effect of acute endurance and strength exercise on circulating calcium–regulating hormones and bone markers in young healthy males. Rong H, et al. **Scand J Med Sci Sports** 1997 Jun;7(3):152–9
False–positive results of basal and pentagastrin–stimulated calcitonin in non–gene carriers of multiple endocrine

neoplasia type 2A. Hernández G, et al. **Thyroid** 1997 Feb; 7(1):51–4

Post-thyroidectomy hypocalcemia: the role of calcitonin, parathormone and serum albumin. Cakmakli S, et al. **Tokai J Exp Clin Med** 1996 Jun;21(2):97–101

Changes in procalcitonin and interleukin 6 levels among treated African patients with different clinical forms of malaria. Richard-Lenoble D, et al. **Trans R Soc Trop Med Hyg** 1997 May-Jun;91(3):305–6

Procalcitonin: a new marker for differential diagnosis of acute rejection and bacterial infection in heart transplantation. Staehler M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):584–5

[Calciotropic hormones in rheumatology] Cormier C, et al. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):311–8 (Eng. Abstr.) **(Fre)**

[Early diagnosis of sporadic medullary cancers of the thyroid: value of systematic assay of calcitonin] Henry JF, et al. **Presse Med** 1996 Nov 2;25(33):1583–8 (Eng. Abstr.) **(Fre)**

[Differential acute graft rejection and infection diagnosis with procalcitonin and cytokines] Staehler M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:205–9 (Eng. Abstr.) **(Ger)**

CHEMICAL SYNTHESIS

Enzymatic semisynthesis of dicarba analogs of calcitonin. Cerovský V, et al. **Eur J Biochem** 1997 Jul 1;247(1):231–7

CHEMISTRY

Neutron diffraction studies of amphipathic helices in phospholipid bilayers. Bradshaw JP, et al. **Basic Life Sci** 1996;64:191–202

Characterization of human calcitonin fibrillation in aqueous urea solution by 1H NMR spectroscopy. Kanaori K, et al. **Biochemistry** 1996 Oct 1;35(39):12671–6

Influence of helix formation on cis/trans isomerism of Xaa-Pro bonds flanking the helical segment. Meyer S, et al. **Biol Chem** 1996 Jul–Aug;377(7–8):489–95

Primary structure and bioactivity of bullfrog calcitonin. Yoshida A, et al. **Gen Comp Endocrinol** 1997 Aug; 107(2):147–52

Degradation pathways of salmon calcitonin in aqueous solution. Windisch V, et al. **J Pharm Sci** 1997 Mar; 86(3):359–64

Circulating monomer-like calcitonin in osteoporotic patients. Rong H, et al. **Osteoporos Int** 1996;6(5):394–8

Degradation pathways, analytical characterization and formulation strategies of a peptide and a protein. Calcitonine and human growth hormone in comparison. Cholewinski M, et al. **Pharm Acta Helv** 1996 Dec; 71(6):405–19

DIAGNOSTIC USE

Serum calcitonin in small cell carcinoma of the prostate. Sim SJ, et al. **Ann Clin Lab Sci** 1996 Nov–Dec;26(6):487–95

DRUG EFFECTS

1-alpha-Hydroxyvitamin D3 treatment decreases bone turnover and modulates calcium-regulating hormones in early postmenopausal women. Chen JT, et al. **Bone** 1997 Jun;20(6):557–62

ECONOMICS

Estimating the cost per avoided hip fracture by osteoporosis treatment in Italy. Visentin P, et al. **Maturitas** 1997 Apr; 26(3):185–92

GENETICS

Hypomethylation of L1 LINE sequences prevailing in human urothelial carcinoma. Jürgens B, et al. **Cancer Res** 1996 Dec 15;56(24):5698–703

Hypermethylation of calcitonin gene regulatory sequences in human breast cancer as revealed by genomic sequencing. Hakkarainen M, et al. **Int J Cancer** 1996 Dec 20;69(6):471–4

Binding of upstream stimulatory factor and a cell-specific activator to the calcitonin/calcitonin gene-related peptide enhancer. Lanigan TM, et al. **J Biol Chem** 1997 Jul 18; 272(29):18316–24

Increasing methylation of the calcitonin gene during disease progression in sequential samples from CML patients. Mills KI, et al. **Leuk Res** 1996 Sep;20(9):771–5

DNA methylation patterns in the calcitonin gene region at first diagnosis and at relapse of acute lymphoblastic leukemia (ALL). Leegwater PA, et al. **Leukemia** 1997 Jul; 11(7):971–8

Identification of a new calcitonin gene in the salmon Oncorhynchus gorbuscha. Jansz H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12344–8

[Biosynthesis of human calcitonin and mini-proinsulin in bacterial cells in the form of hybrid proteins with corresponding antisense peptides and a metal-binding peptide] Efimov VA, et al. **Bioorg Khim** 1996 Jul; 22(7):503–9 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Calcitonin-like immunoreactivity in the subcommissural organ and Reissner's fiber in the teleost Clarias batrachus, frog Rana tigrina and lizard Calotes versicolor. Subhedar N, et al. **Brain Res** 1997 Mar 14;751(1):13–9

A lobster cysteine protease with immunoreactivity and activities of calcitonin and CGRP. Arlot-Bonnemains Y, et al. **C R Acad Sci III** 1996 Nov;319(11):975–82

Monoclonal antibodies to rat calcitonin: their use in antigenic mapping and immunohistochemistry. Zhang R, et al. **Endocrinology** 1997 Apr;138(4):1691–6

A monoclonal antibody against rat calcitonin inhibits the growth of a rat medullary thyroid carcinoma cell line in vitro. Zhang R, et al. **Endocrinology** 1997 Apr; 138(4):1697–703

METABOLISM

Characterization of human calcitonin fibrillation in aqueous urea solution by 1H NMR spectroscopy. Kanaori K, et al. **Biochemistry** 1996 Oct 1;35(39):12671–6

Phosphatydylglycerol promotes bilayer insertion of salmon calcitonin. Bradshaw JP. **Biophys J** 1997 May;72(5):2180–6

Influence of pertussis toxin on the calcitonin–opioid interaction in isolated tissues. Martin MI, et al. **Br J Pharmacol** 1996 Nov;119(5):804–6

Iodocalcitonin binds to human calcitonin receptors with higher affinity than calcitonin. Cohen DP, et al. **Endocrinology** 1996 Oct;137(10):4507–10

There's something fishy and perhaps even fowl about the mammalian calcitonin receptor and its ligand [editorial; comment] Deftos LJ. **Endocrinology** 1997 Feb; 138(2):519–20. Comment on: Endocrinology 1997 Feb;138(2):521–9. Comment on: Endocrinology 1997 Feb;138(2):530–9.

Determinants for calcitonin analog interaction with the calcitonin receptor N-terminus and transmembrane-loop regions. Stroop SD, et al. **Endocrinology** 1996 Nov; 137(11):4752–6

Full activation of chimeric receptors by hybrids between parathyroid hormone and calcitonin. Evidence for a common pattern of ligand-receptor interaction. Bergwitz C, et al. **J Biol Chem** 1996 Oct 25;271(43):26469–72

Reversed-phase high-performance liquid chromatography of salmon calcitonin and its degradation products in biological samples using column switching and flow-through radioisotope detection. Lee HS, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):136–41

Degradation of insulin and calcitonin and their protection by various protease inhibitors in rat caecal contents: implications in peptide delivery to the colon. Tozaki H, et al. **J Pharm Pharmacol** 1997 Feb;49(2):164–8

Proteolysis of human calcitonin in excised bovine nasal mucosa: elucidation of the metabolic pathway by liquid secondary ionization mass spectrometry (LSIMS) and matrix assisted laser desorption ionization mass spectrometry (MALDI). Lang SR, et al. **Pharm Res** 1996 Nov;13(11):1679–85

Decrease in CGRP and CT levels either contained in or released by CA-77 C cells after combined treatments with 1,25-dihydroxyvitamin D3 analogues and 9-cis retinoic acid. Lamari Y, et al. **Reprod Nutr Dev** 1997;37(1):3–12

[The bioavailability of endogenous calcitonin under selective pharmacological sympathectomy] Krasnoperov RA. **Patol Fiziol Eksp Ter** 1997 Apr–Jun;(2):11–3 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Enhancement of nasal salmon calcitonin absorption by lauroylcarnitine chloride in rats. Kagatani S, et al. **Pharm Res** 1996 May;13(5):739–43

PHARMACOLOGY

Biological markers of alcohol consumption and effect of calcitonin in nonalcoholic men: a prospective, double-blind study. Elomaa VV, et al. **Alcohol Clin Exp Res** 1996 Aug; 20(5):830–5

Interleukin-1 beta and tumor necrosis factor-alpha production by human monocytes cultured with L-thyroxine and thyrocalcitonin: relation to severe root shortening. Rossi M, et al. **Am J Orthod Dentofacial Orthop** 1996 Oct;110(4):399–404

Calcitonin activates an Na(+)-independent HCO3(-)-dependent pathway in the rabbit distal convoluted tubule. Dagher G, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F97–103

Regulation of extracellular calcium sensing in rat osteoclasts by femtomolar calcitonin concentrations. Zaidi M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F637–44

Effects of calcitonin and parathyroid hormone on the distribution of F-actin in the clear zone of osteoclasts in vivo. Kuroda H, et al. **Bone** 1996 Aug;19(2):115–20

Morning or evening administration of nasal calcitonin? Effects on biochemical markers of bone turnover. Schlemmer A, et al. **Bone** 1997 Jan;20(1):63–7

Different pharmacological characteristics in L6 and C2C12 muscle cells and intact rat skeletal muscle for amylin, CGRP and calcitonin. Pittner RA, et al. **Br J Pharmacol** 1996 Mar;117(5):847–52

Effect of (8-32) salmon calcitonin, an amylin antagonist, on insulin, glucagon and somatostatin release: study in the perfused pancreas of the rat. Silvestre RA, et al. **Br J Pharmacol** 1996 Jan;117(2):347–50

Intrathecal CGRP8-37-induced bilateral increase in hindpaw withdrawal latency in rats with unilateral inflammation. Yu LC, et al. **Br J Pharmacol** 1996 Jan;117(1):43–50

Effect of salmon calcitonin on femoral bone quality in adult ovariectomized ewes. Geusens P, et al. **Calcif Tissue Int** 1996 Oct;59(4):315–20

The effect of intranasal salmon calcitonin on postmenopausal bone turnover as assessed by biochemical markers: evidence of maximal effect after 8 weeks of continuous treatment. Kraenzlin ME, et al. **Calcif Tissue Int** 1996 Apr; 58(4):216–20

Regulation of c-fos and c-jun expression by calcitonin in human breast cancer cells. Lacroix M, et al. **Calcif Tissue Int** 1997 Jun;60(6):513–9

Calcitonin provides complete protection against cancellous bone loss in the femoral neck of ovariectomized rats. Shen Y, et al. **Calcif Tissue Int** 1997 May;60(5):457–61

Skeletal effects of calcitonin treatment and withdrawal in ovariectomized rats. Shen Y, et al. **Calcif Tissue Int** 1996 Apr;58(4):263–7

Intranasal salcatonin (salmon calcitonin). A review of its pharmacological properties and role in the management of postmenopausal osteoporosis. Plosker GL, et al. **Drugs Aging** 1996 May;8(5):378–400 (146 ref.)

Homologous regulation of the rat C1a calcitonin receptor (CTR) in nonosteoclastic cells is independent of CTR messenger ribonucleic acid changes and cyclic adenosine 3',5'-monophosphate-dependent protein kinase activation. Findlay DM, et al. **Endocrinology** 1996 Nov; 137(11):4576–85

Calcitonin-induced changes in the cytoskeleton are mediated by a signal pathway associated with protein kinase A in osteoclasts. Suzuki H, et al. **Endocrinology** 1996 Nov; 137(11):4685–90

Regulation by calcitonin and glucocorticoids of calcitonin receptor gene expression in mouse osteoclasts [see comments] Wada S, et al. **Endocrinology** 1997 Feb; 138(2):521–9. Comment in: Endocrinology 1997 Feb;138(2):519–20.

Primary structure and bioactivity of bullfrog calcitonin. Yoshida A, et al. **Gen Comp Endocrinol** 1997 Aug; 107(2):147–52

In vitro characterization of bombesin and calcitonin on the proliferation of PC3, DU 145 and LNCaP cancer prostatic cell lines. Larrán J, et al. **Int J Dev Biol** 1996;Suppl 1:275S–276S

Is there a correlation between osteoclastic activity and the action of calcitonin on macrophagic activity? Parente C, et al. **Ital J Anat Embryol** 1996 Jan-Mar;101(1):1–14

Effects of calcium-modulating hormones on thiazide receptor density. Blakely P, et al. **J Am Soc Nephrol** 1996 Jul; 7(7):1052–7

Osteoblast hydraulic conductivity is regulated by calcitonin and parathyroid hormone. Hillsley MV, et al. **J Bone Miner Res** 1996 Jan;11(1):114–24

Effects of continuous calcitonin treatment on osteoclast-like cell development and calcitonin receptor expression in mouse bone marrow cultures. Ikegame M, et al. **J Bone Miner Res** 1996 Apr;11(4):456–65

Effects of calcitonin and parathyroid hormone on calcification of primary cultures of chicken growth plate chondrocytes. Ishikawa Y, et al. **J Bone Miner Res** 1997 Mar;12(3):356–66

Effect of peripherally and centrally administered calcitonin on gallbladder emptying in dogs. Jonderko K, et al. **J Gastroenterol** 1997 Jun;32(3):380–8

Chloride currents activated by calcitonin and cAMP in primary cultures of rabbit distal convoluted tubule. Tauc M, et al. **J Membr Biol** 1996 Apr;150(3):255–73

Protein kinase A-dependent IL-6 production induced by calcitonin in human glioblastoma A172 cells. Kiriyama Y, et al. **J Neuroimmunol** 1997 Jun;76(1–2):139–44

Neuropeptide hierarchies and the activation of sequential motor behaviors in the hawkmoth, Manduca sexta. Gammie SC, et al. **J Neurosci** 1997 Jun 1;17(11):4389–97

Modulation of oscillator interactions in the crab stomatogastric ganglion by crustacean cardioactive peptide. Weimann JM, et al. **J Neurosci** 1997 Mar 1;17(5):1748–60

Calcitonin decreases corticosterone-induced skeletal muscle calpain activity. Higuchi K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):491–6

Is continuous intranasal salmon calcitonin effective in treating axial bone loss in patients with active rheumatoid arthritis receiving low dose glucocorticoid therapy? Kotaniemi A, et al. **J Rheumatol** 1996 Nov;23(11):1875–9

Effect of calcitonin on calcium transport by the luminal and basolateral membranes of the rabbit nephron. Zuo Q, et al. **Kidney Int** 1997 Jun;51(6):1991–9

Calcitonin and human renal calcium and electrolyte transport. Carney SL. **Miner Electrolyte Metab** 1997; 23(1):43–7

Calcitonin promotes osteoclast survival in vitro. Selander KS, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):119–29

Calcitonin inhibits phospholipase A2 and collagenase activity of human osteoarthritic chondrocytes. Hellio MP, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):121–8

A study of calcitonin effect on synaptosomal membrane enzymes. Rodríguez de Lores Arnaiz G, et al. **Peptides** 1997;18(4):613–5

Antinociceptive effects of repeated systemic injections of calcitonin in formalin-induced hyperalgesic rats. Umeno H, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):151–6

Effects of the calciotrophic peptides calcitonin and parathyroid hormone on prostate cancer growth and chemotaxis. Ritchie CK, et al. **Prostate** 1997 Feb 15;

30(3):183-7
[Calcitonin and bone aging] Reginster JY.
Pathol Biol (Paris) 1997 Jan;45(1):52-6 (37 ref.) (Eng. Abstr.) **(Fre)**
[Calcitonin, a proximal-tubular-acting diuretic: lithium clearance measurements in humans] Bachofen M, et al.
Schweiz Med Wochenschr 1997 May 3;127(18):747-52 (Eng. Abstr.) **(Ger)**
[The effect of calcium-regulating hormones on pain sensitivity in rats] Butakov SS, et al.
Eksp Klin Farmakol 1996 Mar-Apr;59(2):9-11 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Alcohol, osteoporosis, and bone regulating hormones. Sampson HW. **Alcohol Clin Exp Res** 1997 May;21(3):400-3 (45 ref.)
Calcitonin stimulates H+ secretion in rat kidney intercalated cells. Siga E, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1217-23
Adaptation of rainbow trout to seawater: changes in calcitonin gene-related peptide levels are associated with an increase in hormone-receptor interaction in gill membranes. Najib L, et al. **Gen Comp Endocrinol** 1996 May; 102(2):274-80
Heterogeneity of circulating calcitonin levels: relations with calcitonin biosynthesis in medullary thyroid carcinomas. Guliana JM, et al. **Nucl Med Biol** 1994 Apr;21(3):359-68 (40 ref.)

SECRETION

Effect of estrogen status on bone regulating hormones. Zofková I, et al. **Bone** 1996 Sep;19(3):227-32
Expression of a calcium-sensing receptor in a human medullary thyroid carcinoma cell line and its contribution to calcitonin secretion. Freichel M, et al. **Endocrinology** 1996 Sep;137(9):3842-8
The influence of cervical sympathetic neurons on parathyroid hormone and calcitonin release in the rat: independence of pineal mediation. Stern JE, et al. **J Pineal Res** 1997 Jan; 22(1):9-15
Immunoelectron microscopic demonstration of regulated pathway for calcitonin and constitutive pathway for carcinoembryonic antigen in the same cells of human medullary carcinomas of thyroid glands. Osamura RY, et al. **Mod Pathol** 1997 Jan;10(1):7-11

STANDARDS

Lack of efficacy of calcitonin in preventing glucocorticoid-induced bone loss: comment on the American College of Rheumatology recommendations for the prevention and treatment of glucocorticoid-induced osteoporosis [letter; comment] Fudman EJ.
Arthritis Rheum 1997 Aug;40(8):1549. Comment on: Arthritis Rheum 1996 Nov;39(11):1791-801.

THERAPEUTIC USE

Calcitonin. Silverman SL. **Am J Med Sci** 1997 Jan; 313(1):13-6 (26 ref.)
Glucocorticoid-induced osteopenia in rats: histomorphometrical and microarchitectural characterization and calcitonin effect. Nakamuta H, et al. **Biol Pharm Bull** 1996 Feb;19(2):217-9
Histomorphometrical evaluation of anti-osteopenic effect of nasal salmon calcitonin in a type 1 osteoporotic model of rats. Nitta T, et al. **Biol Pharm Bull** 1996 Feb;19(2):214-6
Salmon calcitonin in the prevention of bone loss at perimenopause. Arnala I, et al. **Bone** 1996 Jun;18(6):629-32
Effect of nasal salmon calcitonin on bone remodeling and bone mass in postmenopausal osteoporosis. Thamsborg G, et al. **Bone** 1996 Feb;18(2):207-12
Calcitonin treatment in reflex sympathetic dystrophy: a preliminary study. Hamamci N, et al. **Br J Clin Pract** 1996 Oct-Nov;50(7):373-5
Salmon calcitonin nasal spray in the prevention of corticosteroid-induced osteoporosis. Adachi JD, et al. **Br J Rheumatol** 1997 Feb;36(2):255-9
Complementary medical treatment for Colles' fracture: a comparative, randomized, longitudinal study. Crespo R, et al. **Calcif Tissue Int** 1997 Jun;60(6):567-70
Calcitonin, etidronate, and calcidiol treatment in bone loss after cardiac transplantation. Garcia-Delgado I, et al. **Calcif Tissue Int** 1997 Feb;60(2):155-9
Comparison of calcitriol treatment with etidronate-calcitriol and calcitonin-calcitriol combinations in Turkish women with postmenopausal osteoporosis: a prospective study. Gürlek A, et al. **Calcif Tissue Int** 1997 Jul;61(1):39-43
A randomized controlled trial of salmon calcitonin to prevent bone loss in corticosteroid-treated temporal arteritis and polymyalgia rheumatica. Healey JH, et al. **Calcif Tissue Int** 1996 Feb;58(2):73-80
Prevention and management of osteoporosis: consensus statements from the Scientific Advisory Board of the Osteoporosis Society of Canada. 9. Calcitonin in the treatment of osteoporosis. Siminoski K, et al. **Can Med Assoc J** 1996 Oct 1;155(7):962-5 (27 ref.)
Treatment of post-menopausal osteoporosis with recombinant human growth hormone and salmon calcitonin: a placebo controlled study. Gonnelli S, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):55-61
Intranasal salcatonin (salmon calcitonin). A review of its pharmacological properties and role in the management of postmenopausal osteoporosis. Plosker GL, et al. **Drugs Aging** 1996 May;8(5):378-400 (146 ref.)
Osteoporosis prevention and treatment. Pharmacological management and treatment implications. Sankaran SK. **Drugs Aging** 1996 Dec;9(6):472-7 (31 ref.)
Nasal calcitonin. Silverman SL. **Endocrine** 1997 Apr; 6(2):199-202 (30 ref.)
Changes in prolactin levels with the menopause: the effects of estrogen/androgen and calcitonin treatment. Balint-Perić LA, et al. **Gynecol Endocrinol** 1997 Aug; 11(4):275-80
Management of primary idiopathic hyperphosphatasemia with calcitonin: a case report. Roth AJ, et al. **Int Orthop** 1996;20(1):58-60 (14 ref.)
Calcitonin prevents bone loss but decreases osteoblastic activity in ovariohysterectomized beagle dogs. Monier-Faugere MC, et al. **J Bone Miner Res** 1996 Apr; 11(4):446-55
A new model for the regulation of bone resorption, with particular reference to the effects of bisphosphonates. Parfitt AM, et al. **J Bone Miner Res** 1996 Feb;11(2):150-9 (70 ref.)
Antiresorptive therapy in hyperthyroid patients: longitudinal changes in bone and mineral metabolism. Jódar E, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1989-94
Prevention of bone loss induced by thyroxine suppressive therapy in postmenopausal women: the effect of calcium and calcitonin. Kung AW, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1232-6
Infantile hypophosphatasia: treatment options to control hypercalcemia, hypercalciuria, and chronic bone demineralization. Barcia JP, et al. **J Pediatr** 1997 May; 130(5):825-8
Calcitonin therapy in vitamin D intoxication. Mete E, et al. **J Trop Pediatr** 1997 Aug;43(4):241-2
An analgesic effect of synthetic human calcitonin in patients with primary osteoporosis. Kapuściński P, et al. **Mater Med Pol** 1996 Jul-Sep;28(3):83-6
Salmon calcitonin plus intravaginal estriol: an effective treatment for the menopause. Melis GB, et al. **Maturitas** 1996 May;24(1-2):83-90
Prophylaxis of osteoporosis with calcium, estrogens and/or eelcatonin: comparative longitudinal study of bone mass. Pérez-Jaraiz MD, et al. **Maturitas** 1996 Apr;23(3):327-32
Update on pharmacologic therapies for osteoporosis. Kessenich CR. **Nurse Pract** 1996 Aug;21(8):19-24 (19 ref.)
Calcitonin versus etidronate for the treatment of postmenopausal osteoporosis: a meta-analysis of published clinical trials. Cardona JM, et al. **Osteoporos Int** 1997; 7(3):165-74
Nandrolone decanoate and intranasal calcitonin as therapy in established osteoporosis. Flicker L, et al. **Osteoporos Int** 1997;7(1):29-35
Ultrasound parameters in osteoporotic patients treated with salmon calcitonin: a longitudinal study. Gonnelli S, et al. **Osteoporos Int** 1996;6(4):303-7
Osteoporosis. Current pharmacologic options for prevention and treatment. Isenbarger DW, et al. **Postgrad Med** 1997 Jan;101(1):129-32, 136-7, 141-2 (21 ref.)
Calcitonin. Sewell KL. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):56S-62S (23 ref.)
[Comparison of the effectiveness of 17-beta-estradiol and calcitonin in women with postmenopausal bone loss] Stěpán J, et al. **Cas Lek Cesk** 1997 Apr 16;136(8):242-8 (Eng. Abstr.) **(Cze)**
[Calcitonin therapy in large or recurrent central giant cell granulomas of the lower jaw] Rosenberg AJ, et al. **Ned Tijdschr Geneeskd** 1997 Feb 15;141(7):335-9 (Eng. Abstr.) **(Dut)**
[Evaluation of the preventive role of estro-progestogens and non-hormonal therapies in postmenopausal osteoporosis] Reginster JY. **J Gynecol Obstet Biol Reprod (Paris)** 1996; 25(7):677-83 (81 ref.) (Eng. Abstr.) **(Fre)**
[Combined therapy with calcitonin and high doses of active vitamin D3 metabolites in uremic hyperparathyroidism] Matuszkiewicz-Rowińska J, et al. **Pol Arch Med Wewn** 1996 Jul;96(1):23-31 (Eng. Abstr.) **(Pol)**
[The place of Miacalcic (synthetic salmon calcitonin) in the treatment and prevention of osteoporosis] Nasonov EL, et al. **Ter Arkh** 1997;69(5):86-8 (67 ref.) **(Rus)**

CALCITONIN GENE-RELATED PEPTIDE

see related
RECEPTORS, CALCITONIN GENE-RELATED PEPTIDE

Calcitonin gene-related peptide and its receptors: molecular genetics, physiology, pathophysiology, and therapeutic potentials. Wimalawansa SJ. **Endocr Rev** 1996 Oct; 17(5):533-85 (655 ref.)

ADMINISTRATION & DOSAGE

Development of calcitonin gene-related peptide slow-release tablet implanted in CSF space for prevention of cerebral vasospasm after experimental subarachnoid haemorrhage. Ahmad I, et al. **Acta Neurochir (Wien)** 1996; 138(10):1230-40
Calcitonin gene-related peptide-induced preconditioning improves preservation with cardioplegia. Lu EX, et al. **Ann Thorac Surg** 1996 Dec;62(6):1748-51
Calcitonin gene-related peptide reverses the hypertension and significantly decreases the fetal mortality in pre-eclampsia rats induced by N(G)-nitro-L-arginine methyl ester. Yallampalli C, et al. **Hum Reprod** 1996 Apr; 11(4):895-9
Prevention of cerebral vasospasm by calcitonin gene-related peptide slow-release tablet after subarachnoid hemorrhage in monkeys. Inoue T, et al. **Neurosurgery** 1996 Nov; 39(5):984-90

ANALOGS & DERIVATIVES

The selectivity and structural determinants of peptide antagonists at the CGRP receptor of rat, L6 myocytes. Howitt SG, et al. **Br J Pharmacol** 1997 Jul;121(5):1000-4
Structure-activity studies on position 14 of human alpha-calcitonin gene-related peptide. Li J, et al. **J Med Chem** 1997 Sep 12;40(19):3071-6
Modelling constrained calcitonin gene-related peptide analogues. Hakala JM, et al. **Protein Eng** 1996 Feb; 9(2):143-8

ANALYSIS

Weibel-Palade bodies as a storage site of calcitonin gene-related peptide and endothelin-1 in blood vessels of the rat carotid body. Ozaka T, et al. **Anat Rec** 1997 Mar; 247(3):388-94
Microtopography of the autonomic nerves in the rat knee: a fluorescence microscopic study. Schwab W, et al. **Anat Rec** 1997 Jan;247(1):109-18
Similar distribution of mast cells and substance P- and calcitonin gene-related peptide-immunoreactive nerve fibers in the adult human larynx. Domeij S, et al. **Ann Otol Rhinol Laryngol** 1996 Oct;105(10):825-31
Distribution and origins of nitric oxide-producing nerve fibers in the dog tongue: correlated NADPH-diaphorase histochemistry and immunohistochemistry for calcitonin gene-related peptide using light and electron microscopy. Hu ZL, et al. **Arch Histol Cytol** 1996 Dec;59(5):491-503
Effect of capsaicin treatment or inferior alveolar nerve resection on dentine formation and calcitonin gene-related peptide- and substance P-immunoreactive nerve fibres in rat molar pulp. Jacobsen EB, et al. **Arch Oral Biol** 1996 Dec;41(12):1121-31
Distribution of substance P and calcitonin gene-related peptide immunoreactive nerve fibers in the trachea of chronically hypoxic rats. Kusakabe T, et al. **Brain Res Bull** 1996;39(6):335-9
Effects of several denervation procedures on distribution of calcitonin gene-related peptide and substance P immunoreactive in rat stomach. Suzuki T, et al. **Dig Dis Sci** 1997 Jun;42(6):1242-54
Regulatory peptides in the human soft palate. Hauser-Kronberger C, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):478-84
Neutral endopeptidase activity and concentration of sensory neuropeptide in the human nasal mucosa. Lacroix JS, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):465-8
Choline acetyltransferase, glutamate decarboxylase, tyrosine hydroxylase, calcitonin gene-related peptide and opioid peptides coexist in lateral efferent neurons of rat and guinea-pig. Safieddine S, et al. **Eur J Neurosci** 1997 Feb; 9(2):356-67
Comparison of immunohistochemical and functional reinnervation of skin and muscle after peripheral nerve injury. Verdu E, et al. **Exp Neurol** 1997 Jul;146(1):187-98
Immunocytochemical localization of hormones and functional proteins in cultured cells of thyroid medullary carcinoma. Seidel J, et al. **Folia Histochem Cytobiol** 1996; 34 Suppl 1:67-8
Localisation of VIP-and CGRP-like substances in the skin and sinus hair follicles of various mammalian species. Cheng-Chew SB, et al. **Histochem Cell Biol** 1996 Jun; 105(6):443-52
Retinoic acid abolishes the calcitonin gene-related peptide autocrine system in F9 teratocarcinoma cells. Segond N, et al. **J Cell Biochem** 1997 Mar 1;64(3):447-57
Sensory innervation of the guinea pig extraocular muscles: a 1,1'-dioctadecyl-3,3,3',3'-tetramethylindocarbocyanine perchlorate tracing and calcitonin gene-related peptide immunohistochemical study. Aigner M, et al. **J Comp Neurol** 1997 Mar 31;380(1):16-22
Electrophysiological properties of neurones with CGRP-like immunoreactivity in rat dorsal root ganglia. Lawson SN, et al. **J Comp Neurol** 1996 Feb 12;365(3):355-66
Neurons in the chicken ureter are innervated by substance P- and calcitonin gene-related peptide-containing nerve fibres: immunohistochemical and electrophysiological evidence. Sann H, et al. **J Comp Neurol** 1997 Mar 31; 380(1):105-18
Calcitonin gene-related peptide, substance P, and tyrosine hydroxylase-immunoreactive innervation of rat bone marrows: an immunohistochemical and ultrastructural investigation on possible efferent and afferent mechanisms. Imai S, et al. **J Orthop Res** 1997 Jan;15(1):133-40
Neurocompensatory responses to balloon-catheter-induced injury of the rat carotid artery. Milner P, et al. **J Vasc Res** 1997 Jan-Feb;34(1):31-40
Distribution and colocalization of calcitonin gene-related peptide, tachykinins, and vasoactive intestinal peptide in

normal and idiopathic unstable human urinary bladder. Smet PJ, et al. **Lab Invest** 1997 Jul;77(1):37–49

Peptides and neuromas: calcitonin gene–related peptide, substance P, and mast cells in a mechanosensitive human sural neuroma. Zochodne DW, et al. **Muscle Nerve** 1997 Jul;20(7):875–80

Immunohistochemical localization of calcitonin gene–related peptide in the terete nucleus of the rat hypothalamus. Lantos TA, et al. **Neurobiology (Bp)** 1996;4(1–2):73–84

Innervation of the pancreas of the one-humped camel (Camelus dromedarius) by neuropeptide-Y, galanin, calcitonin-gene-related-peptide, atrial natriuretic peptide and cholecystokinin. Adeghate E, et al. **Neuropeptides** 1996 Oct;30(5):420–4

CGRP in the trigeminal nucleus, spinal cord and hypothalamus: effect of gonadal steroids. Moussaoul S, et al. **Neuropeptides** 1996 Dec;30(6):546–50

Substance P and calcitonin gene–related peptide in the chicken skin: distribution and cardiovascular effects. Sann H, et al. **Neuropeptides** 1996 Jun;30(3):273–81

Quantitative analysis of cutaneous calcitonin gene–related peptide content in response to acute cutaneous mechanical or thermal stimuli and immobilization–induced stress in rats. Tsuchiya T, et al. **Neuropeptides** 1996 Apr; 30(2):149–57

Coexistence of calcitonin gene–related peptide and NADPH–diaphorase in the canine superior cervical ganglion. Hisa Y, et al. **Neurosci Lett** 1997 Jun 6; 228(2):135–8

Localization of choline acetyltransferase and calcitonin gene–related peptide immunoreactivities in the vestibular end–organs of the guinea pig. Matsuda Y. **Osaka City Med J** 1996 Dec;42(2):61–76

Calcitonin gene–related peptide in the hamster seminal vesicle and coagulating gland: an immunohistochemical, autoradiographical, and pharmacological study. Afonso F, et al. **Peptides** 1996;17(7):1189–95

Neuropeptidergic innervation of human nasal mucosa in various pathological conditions. Fang SY, et al. **Proc Natl Sci Counc Repub China B** 1997 Jan;21(1):8–12

An ultrastructural study of calcitonin gene–related peptide–immunoreactive nerve fibers innervating the rat posterior longitudinal ligament. A morphologic basis for their possible efferent actions. Imai S, et al. **Spine** 1997 Sep 1;22(17):1941–7

CGRP–LI [letter; comment] McCarthy PW. **Spine** 1996 May 15;21(10):1277–8. Comment on: Spine 1995 Oct 1;20(19):2086–92.

ANTAGONISTS & INHIBITORS

Roles of calcitonin gene–related peptide (CGRP) in hyperpnea–induced constriction in guinea pigs. Nagase T, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1551–6

Intrathecal CGRP8–37–induced bilateral increase in hindpaw withdrawal latency in rats with unilateral inflammation. Yu LC, et al. **Br J Pharmacol** 1996 Jan;117(1):43–50

In vivo exposure to nitrogen dioxide (NO_2) induces a decrease in calcitonin gene–related peptide (CGRP) and tachykinin immunoreactivity in guinea–pig peripheral airways. Lucchini RE, et al. **Eur Respir J** 1996 Sep; 9(9):1847–51

Different influence of CGRP (8–37), an amylin and CGRP antagonist, on the anorectic effects of cholecystokinin and bombesin in diabetic and normal rats. Lutz TA, et al. **Peptides** 1997;18(5):643–9

BIOSYNTHESIS

Neuropeptide expression in the human fetal hyaloid vasculature and vitreous. Zhu M, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):72–4

Binding of upstream stimulatory factor and a cell–specific activator to the calcitonin/calcitonin gene–related peptide enhancer. Lanigan TM, et al. **J Biol Chem** 1997 Jul 18; 272(29):18316–24

Developmentally regulated expression of calcitonin gene–related peptide in the superior olive. Simmons DD, et al. **J Comp Neurol** 1997 Jan 13;377(2):207–16

Capsaicin–induced calcitonin gene–related peptide release from isolated rat stomach measured with a new chemiluminescent enzyme immunoassay. Inaba N, et al. **Jpn J Pharmacol** 1996 Nov;72(3):223–9

CGRP expression increases in the ventral horn rostral to spinal cord transection. Krenz NR, et al. **Neuroreport** 1996 Nov 25;7(18):2859–62

Upregulation of calcitonin gene–related peptide at mouse motor nerve terminals poisoned with botulinum type–A toxin. Meunier FA, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R297–8

A complex of nuclear proteins mediates SR protein binding to a purine–rich splicing enhancer. Yeakley JM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7582–7

BLOOD

Changes of plasma calcitonin gene–related peptide levels in postmenopausal women. Valentini A, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):638–42

Responsiveness of the trigeminovascular system to nitroglycerine in cluster headache patients. Fanciullacci M, et al. **Brain** 1997 Feb;120 (Pt 2):283–8

Effects of ischaemia and reperfusion on vasoactive neuropeptide levels in the canine infrarenal aortic revascularization model. Dovgan PS, et al. **Cardiovasc Surg** 1996 Aug;4(4):470–5

Different levels of sensory neuropeptides (calcitonin gene–related peptide and substance P) during and after exercise in man. Lind H, et al. **Clin Physiol** 1996 Jan; 16(1):73–82

Atrial natriuretic peptides increase calcitonin gene–related peptide within human circulation. Vesely DL, et al. **Metabolism** 1997 Jul;46(7):818–25

Relationship between circulating levels of calcitonin gene–related peptide, nitric oxide metabolites and hemodynamic changes in human septic shock. Arnalich F, et al. **Regul Pept** 1996 Sep 9;65(2):115–21

Interrelationships between calcitonin gene–related peptide and sympathoadrenomedullary system: effects of administration of epinephrine and norepinephrine in healthy man. Trasforini G, et al. **Regul Pept** 1996 May 7;63(1):57–61

CHEMISTRY

Structural comparison of alanine–substituted analogues of the calcitonin gene–related peptide 8–37. Importance of the C–terminal segment for antagonistic activity. Boulanger Y, et al. **Int J Pept Protein Res** 1996 Jun;47(6):477–83

Structure–activity studies on position 14 of human alpha–calcitonin gene–related peptide. Li J, et al. **J Med Chem** 1997 Sep 12;40(19):3071–6

DRUG EFFECTS

Sumatriptan inhibits the release of CGRP and substance P from the rat spinal cord. Arvieu L, et al. **Neuroreport** 1996 Aug 12;7(12):1973–6

GENETICS

GAP–43 mRNA and calcitonin gene–related peptide mRNA expression in sensory neurons are increased following sympathectomy. Bolden DA, et al. **Brain Res Bull** 1997; 42(1):39–50

alpha–CGRP mRNA levels in motoneurons innervating specific rat muscles. Blanco CE, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):253–61

Sexually dimorphic expression of calcitonin gene–related peptide (CGRP) mRNA in rat medial preoptic nucleus. Herbison AE, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):143–8

Binding of upstream stimulatory factor and a cell–specific activator to the calcitonin/calcitonin gene–related peptide enhancer. Lanigan TM, et al. **J Biol Chem** 1997 Jul 18; 272(29):18316–24

Calcitonin gene–related peptide and alpha–CGRP mRNA expression in cranial motoneurons after hypoglossal nerve injury during postnatal development. Blake–Bruzzini KM, et al. **J Neurocytol** 1997 Mar;26(3):163–79

Identification of a new calcitonin gene in the salmon Oncorhynchus gorbuscha. Jansz H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12344–8

Increase of calcitonin gene–related peptide (CGRP) release and mRNA levels in endotoxic rats. Tang Y, et al. **Shock** 1997 Mar;7(3):225–9

Long–term age–related consequences of forelimb damage upon expression of primary afferent phenotypes in the cervical dorsal horn. Rhoades RW, et al. **Somatosens Mot Res** 1995;12(3–4):199–208

IMMUNOLOGY

A lobster cysteine protease with immunoreactivity and activities of calcitonin and CGRP. Arlot–Bonnemains Y, et al. **C R Acad Sci III** 1996 Nov;319(11):975–82

CGRP–immunoreactive nerve fibers projecting to lumbar facet joints through the paravertebral sympathetic trunk in rats. Suseki K, et al. **Neurosci Lett** 1996 Dec 27; 221(1):41–4

METABOLISM

Effect of adrenomedullin on cAMP levels along the rat nephron: comparison with CGRP. Edwards RM, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F895–9

5–HT released by mucosal stimuli initiates peristalsis by activating 5–HT4/5–HT1p receptors on sensory CGRP neurons. Grider JR, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G778–82

Quantitative examination of calcitonin gene–related peptide immunoreactive nerve fibres in the cat knee joint capsule. Heppelmann B, et al. **Anat Embryol (Berl)** 1997 Jun; 195(6):525–30

Protein gene–product 9.5 in developing mouse circumvallate papilla: comparison with neuron–specific enolase and calcitonin gene–related peptide. Wakisaka S, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):365–72

Postnatal development of protein gene product 9.5– and calcitonin gene–related peptide–like immunoreactive nerve fibers in the rat temporomandibular joint. Shimizu S, et al. **Anat Rec** 1996 Jul;245(3):568–76

Capsinolol: the first beta–adrenoceptor blocker with an associated calcitonin gene–related peptide releasing activity in the heart. Chen IJ, et al. **Br J Pharmacol** 1996 Sep; 119(1):7–14

Inhibition by nociceptin of neurogenic inflammation and the release of SP and CGRP from sensory nerve terminals. Helyes Z, et al. **Br J Pharmacol** 1997 Jun;121(4):613–5

Rapid nitric oxide– and prostaglandin–dependent release of calcitonin gene–related peptide (CGRP) triggered by endotoxin in rat mesenteric arterial bed. Wang X, et al. **Br J Pharmacol** 1996 Aug;118(8):2164–70

Chronic dexamethasone treatment and its effects on sensory neuropeptides, pulpal injury reactions and reparative dentin. Ferrari AM, et al. **Brain Res** 1996 Jun 3; 723(1–2):125–34

Age–related changes in calcitonin gene–related peptide and substance P in renal afferent nerve soma in the rat. Association with afferent renal nerve activity. Doutova EA, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):260–8

Metabolism of neuropeptide Y and calcitonin gene–related peptide by cultivated neurons and glial cells. Ludwig R, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):181–91

Islet amyloid polypeptide and calcitonin gene–related peptide expression are down–regulated in dorsal root ganglia upon sciatic nerve transection. Mulder H, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):322–30

Direct neural regulation of the mammalian anterior pituitary. Ju G. **Chin Med J (Engl)** 1996 Jan;109(1):44–6 (8 ref.)

Characterization of a calcitonin gene related peptide–like molecule in the abalone, Haliotis tuberculata. Duvail L, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Feb;116(2):155–9

Calcitonin gene–related peptide immunoreactivity in adult mouse lung. Verástegui C, et al. **Eur J Histochem** 1997; 41(2):119–26

Nerve growth factor treatment increases stimulus–evoked release of sensory neuropeptides in the rat spinal cord. Malcangio M, et al. **Eur J Neurosci** 1997 May;9(5):1101–4

Regulation of motoneuronal calcitonin gene–related peptide (CGRP) during axonal growth and neuromuscular synaptic plasticity induced by botulinum toxin in rats. Tarabal O, et al. **Eur J Neurosci** 1996 Apr;8(4):829–36

Galanin, substance P and calcitonin gene–related peptide are colocalized in some afferent neurons innervating the porcine ovary. Majewski M, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:91–2

Adaptation of rainbow trout to seawater: changes in calcitonin gene–related peptide levels are associated with an increase in hormone–receptor interaction in gill membranes. Najib L, et al. **Gen Comp Endocrinol** 1996 May; 102(2):274–80

Chick cochlear efferent neurons are not immunoreactive for calcitonin gene–related peptide. Code RA, et al. **Hear Res** 1996 Aug;97(1–2):127–35

Distribution of calcitonin gene–related peptide immunoreactivity in vestibular efferent neurons of the chinchilla. Marco RA, et al. **Hear Res** 1996 Aug; 97(1–2):95–101

Immunohistochemical distribution of calcitonin gene–related peptide in nerve fibres of the anterior buccal gland of the rat. Törnwall J, et al. **Histochem J** 1996 Jan;28(1):1–5

Localization and effects of calcitonin gene–related peptide in the testicular vasculature of the rat. Lissbrant E, et al. **J Androl** 1997 Jul–Aug;18(4):385–92

Efferent targets of osseous CGRP–immunoreactive nerve fiber before and after bone destruction in adjuvant arthritic rat: an ultramorphological study on their terminal–target relations. Imai S, et al. **J Bone Miner Res** 1997 Jul; 12(7):1018–27

Dental innervation and CGRP in adult p75–deficient mice. Sarram S, et al. **J Comp Neurol** 1997 Aug 25;385(2):297–308

The interaction of CGRP and adrenomedullin with a receptor expressed in the rat pulmonary vascular endothelium. Han ZQ, et al. **J Mol Endocrinol** 1997 Jun; 18(3):267–72

Calcitonin gene–related peptide and alpha–CGRP mRNA expression in cranial motoneurons after hypoglossal nerve injury during postnatal development. Blake–Bruzzini KM, et al. **J Neurocytol** 1997 Mar;26(3):163–79

Temperature dependency of basal and evoked release of amino acids and calcitonin gene–related peptide from rat dorsal spinal cord. Dirig DM, et al. **J Neurosci** 1997 Jun 1;17(11):4406–14

The psychotomimetic drugs D–amphetamine and phencyclidine release calcitonin gene–related peptide in the limbic forebrain of the rat. Mathé AA, et al. **J Neurosci Res** 1996 Nov 1;46(3):316–23

A single capsaicin injection partially depletes neuropeptides but does not ameliorate inflammation severity in established feline antigen induced arthritis. Marshall KW, et al. **J Rheumatol** 1997 Sep;24(9):1765–8

Decreased CGRP level with increased sensitivity to CGRP in the pial arteries of spontaneously hypertensive rats. Hong KW, et al. **Life Sci** 1997;60(10):697–705

Relationship of age and calcitonin gene–related peptide to postprandial hypotension. Edwards BJ, et al. **Mech Ageing Dev** 1996 Jun 7;87(2):61–73

An examination of the close relationship between lymphatic vessels and nerve fibers containing calcitonin gene–related peptide and substance P in rat skin. Yamada K, et al. **Nagoya J Med Sci** 1996 Dec;59(3–4):143–50

Release of calcitonin gene–related peptide in cardiac anaphylaxis. Schuligoi R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):224–9

Effects of electroconvulsive stimuli and MK–801 on neuropeptide Y, neurokinin A, and calcitonin gene–related peptide in rat brain. Mathé AA, et al. **Neurochem Res** 1997

May;22(5):629-36
Calcitonin gene-related peptide level in the rat dentate gyrus increases after damage. Bulloch K, et al. **Neuroreport** 1996 Apr 10;7(5):1036-40
Intramuscular nerve sprouting induced by CNTF is associated with increases in CGRP content in mouse motor nerve terminals. Tarabal O, et al. **Neurosci Lett** 1996 Nov 15;219(1):60-4
Coexistence of calcitonin gene-related peptide- and substance P-like immunoreactivity in retrogradely labeled superior spermatic neurons in the dog. Tamura R, et al. **Neurosci Res** 1996 Jul;25(3):293-9
Ultrastructural localization of B-50/growth-associated protein-43 to anterogradely transported synaptophysin-positive and calcitonin gene-related peptide-negative vesicles in the regenerating rat sciatic nerve. Verkade P, et al. **Neuroscience** 1996 Mar; 71(2):489-505
Calcitonin gene-related peptide content, basal outflow and electrically-evoked release from monoarthritic rat spinal cord in vitro. Malcangio M, et al. **Pain** 1996 Aug; 66(2-3):351-8
Chromic gut suture reduces calcitonin-gene-related peptide and substance P levels in the spinal cord following chronic constriction injury in the rat. Xu J, et al. **Pain** 1996 Mar; 64(3):503-9
Endoproteolysis at tetrabasic amino acid sites in procalcitonin gene-related peptide by pituitary cell lines. Rosenblatt MI, et al. **Peptides** 1997;18(4):567-76
Calcitonin gene-related peptide in the cardiovascular system: characterization of receptor populations and their (patho)physiological significance. Bell D, et al. **Pharmacol Rev** 1996 Jun;48(2):253-88 (302 ref.)
Calcitonin gene-related peptide receptor in human placental syncytiotrophoblast brush-border and basal plasma membranes. Lafond J, et al. **Placenta** 1997 Mar-Apr; 18(2-3):181-8
Capsaicin-evoked release of pituitary adenylate cyclase activating peptide (PACAP) and calcitonin gene-related peptide (CGRP) from rat spinal cord in vivo. Zhang Y, et al. **Regul Pept** 1997 Mar 26;69(2):83-7
Decrease in CGRP and CT levels either contained in or released by CA-77 C cells after combined treatments with 1,25-dihydroxyvitamin D3 analogues and 9-cis retinoic acid. Lamari Y, et al. **Reprod Nutr Dev** 1997;37(1):3-12
Increase of calcitonin gene-related peptide (CGRP) release and mRNA levels in endotoxic rats. Tang Y, et al. **Shock** 1997 Mar;7(3):225-9
[Effects of some physical and chemical factors on CGRP release from mesenteric arterial bed] Wu ZX, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):573-9 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Evidence for a possible synergism between pituitary adenylate cyclase activating polypeptide and calcitonin gene-related peptide in porcine ophthalmic artery. Elsås T, et al. **Acta Ophthalmol Scand** 1997 Apr;75(2):159-61
Effects of hCGRP 8-37 and the NK1-receptor antagonist SR 140.333 on capsaicin-evoked vasodilation in the pig nasal mucosa in vivo. Rinder J, et al. **Acta Physiol Scand** 1996 Feb;156(2):115-22
Amylin, calcitonin gene-related peptide, and adrenomedullin: effects on thiazide receptor and calcium. Blakely P, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F410-5
Adrenomedullin-(22-52) antagonizes vasodilator responses to CGRP but not adrenomedullin in the cat. Champion HC, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R234-42
Actions of calcitonin gene-related peptide in guinea pig gallbladder ganglia. Gokin AP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G876-83
Calcitonin gene-related peptide in viscerosensitive response to colorectal distension in rats. Plourde V, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G191-6
Desensitization of nicotine receptor through CGRP-enhanced non-contractile Ca2+ in neuromuscular synapse. Tsuneki H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:435-8
Effect of calcitonin gene-related peptide on sodium absorption through isolated skin of Rana esculenta. Castronuovo G, et al. **Arch Physiol Biochem** 1996; 104(2):142-7
Cutaneous vascular response to calcitonin gene-related peptide in psoriasis and normal subjects. Artemi P, et al. **Australas J Dermatol** 1997 May;38(2):73-6
Enhancement by calcitonin gene-related peptide of non-contractile Ca2(+)-induced nicotinic receptor desensitization at the mouse neuromuscular junction. Dezaki K, et al. **Br J Pharmacol** 1996 Aug;118(8):1971-6
Spatial heterogeneity of the effects of calcitonin gene-related peptide (CGRP) on the microvasculature of ligaments in the rabbit knee joint. Ferrell WR, et al. **Br J Pharmacol** 1997 Aug;121(7):1397-405
The selectivity and structural determinants of peptide antagonists at the CGRP receptor of rat, L6 myocytes. Howitt SG, et al. **Br J Pharmacol** 1997 Jul;121(5):1000-4
Modulation of synovial blood flow by the calcitonin gene-related peptide (CGRP) receptor antagonist, CGRP(8-37). McMurdo L, et al. **Br J Pharmacol** 1997 Jul; 121(6):1075-80
Role of intracellular Ca2+ in the K channel opener action of CGRP in the guinea-pig ureter. Maggi CA, et al. **Br J Pharmacol** 1996 Jul;118(6):1493-503
The effects of calcitonin gene-related peptide on tracheal smooth muscle of guinea-pigs in vitro. Ninomiya H, et al. **Br J Pharmacol** 1996 Dec;119(7):1341-6
Effects of adrenomedullin and calcitonin gene-related peptide on airway and pulmonary vascular smooth muscle in guinea-pigs. Pinto A, et al. **Br J Pharmacol** 1996 Dec; 119(7):1477-83
Different pharmacological characteristics in L6 and C2C12 muscle cells and intact rat skeletal muscle for amylin, CGRP and calcitonin. Pittner RA, et al. **Br J Pharmacol** 1996 Mar;117(5):847-52
Vasodilator effects of adrenomedullin on small pulmonary arteries and veins in anaesthetized cats. Shirai M, et al. **Br J Pharmacol** 1997 Jun;121(4):679-86
Multiple receptors for calcitonin gene-related peptide and amylin on guinea-pig ileum and vas deferens. Tomlinson AE, et al. **Br J Pharmacol** 1996 Mar;117(6):1362-8
Intrathecal CGRP8-37-induced bilateral increase in hindpaw withdrawal latency in rats with unilateral inflammation. Yu LC, et al. **Br J Pharmacol** 1996 Jan;117(1):43-50
Exogenous calcitonin gene-related peptide can induce the testis to cross the scrotal septum. Clarnette TD, et al. **Br J Urol** 1997 Apr;79(4):623-7
Vasodilatory actions of calcitonin gene-related peptide and nitric oxide in parenchymal microvessels of the rat hippocampus. Fergus A, et al. **Brain Res** 1995 Oct 2; 694(1-2):78-84
Release of histamine from dural mast cells by substance P and calcitonin gene-related peptide [see comments] Ottosson A, et al. **Cephalalgia** 1997 May;17(3):166-74. Comment in: Cephalalgia 1997 May;17(3):143-4.
Intravital microscope studies on the effects of neurokinin agonists and calcitonin gene-related peptide on dural vessel diameter in the anaesthetized rat. Williamson DJ, et al. **Cephalalgia** 1997 Jun;17(4):518-24
Impairment of calcitonin gene-related peptide-induced potentiation of cholinergic sweat secretion in patients with multiple system atrophy. Kumazawa K, et al. **Clin Auton Res** 1997 Apr;7(2):77-80
Calcitonin gene-related peptide antagonizes the protective effect of adrenomedullin on histamine-induced bronchoconstriction. Kanazawa H, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):472-5
Calcitonin gene-related peptide-induced relaxation in isolated small superior mesenteric arteries from adult stroke-prone spontaneously hypertensive rats. Gao YJ, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S109-11
Calcitonin gene related peptide enhances bone colony development in vitro. Shih C, et al. **Clin Orthop** 1997 Jan; (334):335-44
Inhibitory effect of calcitonin gene-related peptide on myometrial contractility is diminished at parturition. Naghashpour M, et al. **Endocrinology** 1997 Oct; 138(10):4207-14
Calcitonin gene-related peptide in vitro stimulation of ciliary beat in human upper respiratory cilia. Schuil PJ, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):462-4
Characterization of the receptor mediating the effect of calcitonin gene-related peptide in the frog adrenal gland. Esneu M, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):187-93
Involvement of ATP-sensitive K+ channels in the inhibitory effect of calcitonin gene-related peptide on neurotransmission in rat vas deferens. Huang Y, et al. **Eur J Pharmacol** 1997 May 30;327(2-3):209-14
Lack of effect of calcitonin gene-related peptide and amylin on major markers of glucose metabolism in hepatocytes. Pittner RA. **Eur J Pharmacol** 1997 May 1;325(2-3):189-97
Inhibitory effects of calcitonin gene-related peptide on substance-P-induced superoxide production in human neutrophils [published erratum appears in Eur J Pharmacol 1997 Feb 19;321(1):137-41] Tanabe T, et al. **Eur J Pharmacol** 1996 Oct 24;314(1-2):175-83
Comparison of the in vitro and in vivo pharmacology of adrenomedullin, calcitonin gene-related peptide and amylin in rats. Vine W, et al. **Eur J Pharmacol** 1996 Oct 24; 314(1-2):115-21
Effects of calcitonin gene-related peptide on opossum esophageal smooth muscle. Uc A, et al. **Gastroenterology** 1997 Aug;113(2):514-20
Calcitonin gene-related peptide: vasoactive effects and potential therapeutic role. Brain SD, et al. **Gen Pharmacol** 1996 Jun;27(4):607-11 (36 ref.)
Calcitonin gene-related peptide and ATP induce immediate early gene expression in cultured rat microglial cells. Priller J, et al. **Glia** 1995 Dec;15(4):447-57
Catecholamine release mediates pressor effects of adrenomedullin-(15-22) in the rat. Champion HC, et al. **Hypertension** 1996 Dec;28(6):1041-6
Effect of calcitonin gene-related peptide and vasoactive intestinal peptide on murine CD4 and CD8 T cell proliferation. Teresi S, et al. **Immunol Lett** 1996 Apr; 50(1-2):105-13
Immunomodulation by OK-432 and calcitonin gene-related peptide (CGRP) of nitric oxide synthase (NOS) and IL-1 beta gene expression and of HSV-1 pathogenicity in mouse skin Langerhans cells (LC). Berkowitz-Balshayi C, et al. **In Vivo** 1995 Sep-Oct;9(5):447-54
Secretion and serotonin release in the isolated rat lacrimal gland: the effects of substance P and calcitonin gene-related peptide. Williams RM, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):37-42
Calcitonin gene-related peptide (CGRP)-evoked inotropism during hyper- and hypo-sensory-motor innervation in rat atria. Rubino A, et al. **J Auton Pharmacol** 1997 Apr; 17(2):121-7
Calcitonin gene-related peptide does not mediate the abnormal vascular reactivity observed in a rat model of acute Pseudomonas pneumonia. Fox GA, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):901-7
Mouse aorta: a preparation highly sensitive to the vasodilatory action of CGRP. Pomerleau F, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):343-51
Mechanism of action of human calcitonin gene-related peptide in rabbit heart and in human mammary arteries. Raddino R, et al. **J Cardiovasc Pharmacol** 1997 Apr; 29(4):463-70
Calcitonin gene-related peptide inhibits proliferation and antigen presentation by human peripheral blood mononuclear cells: effects on B7, interleukin 10, and interleukin 12. Fox FE, et al. **J Invest Dermatol** 1997 Jan; 108(1):43-8
Regulation of cytokine expression in macrophages and the Langerhans cell-like line XS52 by calcitonin gene-related peptide. Torii H, et al. **J Leukoc Biol** 1997 Feb;61(2):216-23
CGRP increases the rate of corneal re-epithelialization in an in vitro whole mount preparation. Mikulec AA, et al. **J Ocul Pharmacol Ther** 1996 Winter;12(4):417-23
Calcitonin gene-related peptide and reperfusion injury. Allen DM, et al. **J Orthop Res** 1997 Mar;15(2):243-8
Does calcitonin gene-related peptide act as a chemoattractant for rat gubernacular cells? Sugita Y, et al. **J Pediatr Surg** 1997 Jan;32(1):15-7
Comparison of vascular effects of calcitonin gene-related peptide and lidocaine on human veins. Gherardini G, et al. **J Reconstr Microsurg** 1996 May;12(4):241-5
Differential sensitivity of human nonpregnant and pregnant myometrium to calcitonin gene-related peptide. Chan KK, et al. **J Soc Gynecol Investig** 1997 Jan-Feb;4(1):15-21
Neuropeptide Y and calcitonin gene-related peptide modulate voltage-gated Ca2+ channels in mature female rat paracervical ganglion neurons. Cohen DP, et al. **J Soc Gynecol Investig** 1996 Nov-Dec;3(6):342-9
Calcitonin gene-related peptide inhibits human platelet aggregation. Matsumoto Y, et al. **Jpn Circ J** 1996 Oct; 60(10):797-804
Calcitonin gene-related peptide inhibits nonadrenergic noncholinergic contraction of guinea pig distal colon. Kojima S. **Jpn J Pharmacol** 1997 Mar;73(3):255-7
Decreased CGRP level with increased sensitivity to CGRP in the pial arteries of spontaneously hypertensive rats. Hong KW, et al. **Life Sci** 1997;60(10):697-705
The effects of central injections of calcitonin gene-related peptide on fear-related behavior. Poore LH, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):241-5
Role of nitric oxide (NO) in exploratory activity induced by alpha CGRP(8-37) in rats. Kovács A, et al. **Neurobiology (Bp)** 1996;4(3):223-6
Calcitonin gene-related peptide increases the expression of acetylcholinesterase in cultured chick myotubes. Choi RC, et al. **Neurosci Lett** 1996 Oct 18;217(2-3):165-8
Calcitonin gene-related peptide (8-37) does not antagonize calcitonin gene-related peptide in rat spinal cord. Xu XJ, et al. **Neurosci Lett** 1996 Feb 9;204(3):185-8
The calcitonin gene-related peptide antagonist CGRP8-37 increases the latency to withdrawal responses bilaterally in rats with unilateral experimental mononeuropathy, an effect reversed by naloxone. Yu LC, et al. **Neuroscience** 1996 Mar;71(2):523-31
The effect of human calcitonin gene-related peptide on eosinophil chemotaxis in the rat airway. Bellibaş SE. **Peptides** 1996;17(3):563-4
Enhancement of phagocytosis by calcitonin gene-related peptide (CGRP) in cultured mouse peritoneal macrophages. Ichinose M, et al. **Peptides** 1996; 17(8):1405-14
Different influence of CGRP (8-37), an amylin and CGRP antagonist, on the anorectic effects of cholecystokinin and bombesin in diabetic and normal rats. Lutz TA, et al. **Peptides** 1997;18(5):643-9
Attenuation of the anorectic effects of glucagon, cholecystokinin, and bombesin by the amylin receptor antagonist CGRP(8-37). Lutz TA, et al. **Peptides** 1996; 17(1):119-24
Adrenomedullin stimulates steroid secretion by the isolated perfused rat adrenal gland in situ: comparison with calcitonin gene-related peptide effects. Mazzocchi G, et al. **Peptides** 1996;17(5):853-7
Calcitonin gene-related peptide (CGRP) induces more potent vasorelaxation in the resistance portion than in the conduit portion of mesenteric arteries in humans. Miyauchi T, et al. **Peptides** 1996;17(5):877-9
Peripherally administered calcitonin gene-related peptide decreases food intake in mice. Morley JE, et al. **Peptides** 1996;17(3):511-6
Involvement of prostaglandins and CGRP-dependent sensory afferents in peritoneal irritation-induced visceral pain. Friese N, et al. **Regul Pept** 1997 May 14;70(1):1-7
CGRP potentiates excitatory transmission to the circular muscle of guinea-pig colon. Maggi CA, et al. **Regul Pept** 1997 Apr 30;69(3):127-36
Calcitonin gene-related peptide is a potent intestinal, but not gastric, vasodilator in conscious dogs. Nakamura T, et al. **Regul Pept** 1996 Sep 16;65(3):211-7

CALCITONIN GENE-RELATED PEPTIDE

Calcitonin gene-related peptide induces the formation of second messengers in primary cultures of neonatal rat spinal cord. Parsons AM, et al. **Synapse** 1997 Jul;26(3):235–42

PHYSIOLOGY

Cutaneous vasodilation during dorsal column stimulation is mediated by dorsal roots and CGRP. Croom JE, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H950–7

Tachykininergic mediation of viscerosensitive responses to acute inflammation in rats: role of CGRP. Julia V, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G141–6

Calcitonin gene-related peptide in viscerosensitive response to colorectal distension in rats. Plourde V, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G191–6

Tachykinin-induced increase in gastric mucosal resistance: role of primary afferent neurons, CGRP, and NO. Stroff T, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1017–27

Roles of calcitonin gene-related peptide (CGRP) in hyperpnea-induced constriction in guinea pigs. Nagase T, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1551–6

PACAP occurs in sensory nerve fibers and participates in ocular inflammation in the rabbit. Wang ZY, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:779–83

Calcitonin gene-related peptide in experimental ischemia. Implication of an endogenous anti-ischemic effect. Gherardini G, et al. **Ann Plast Surg** 1996 Jun;36(6):616–20

Immunohistochemical studies on protein gene product 9.5, serotonin and neuropeptides in vallate taste buds and related nerves of the guinea pig. Huang YJ, et al. **Arch Histol Cytol** 1996 Dec;59(5):433–41

Involvement of sensory neuropeptides in the development of plasma extravasation in rat dorsal skin following thermal injury. Siney L, et al. **Br J Pharmacol** 1996 Mar; 117(6):1065–70

CGRP: blood flow and more? [editorial; comment] Moskowitz MA, et al. **Cephalalgia** 1996 Aug;16(5):287. Comment on: Cephalalgia 1996 Aug;16(5):310–6.

Recent insights into the regulation of cerebral circulation. Brian JE Jr, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):449–57 (111 ref.)

Amylin, calcitonin gene-related peptide, calcitonin, and adrenomedullin: a peptide superfamily. Wimalawansa SJ. **Crit Rev Neurobiol** 1997;11(2–3):167–239 (606 ref.)

Role of prostaglandins and calcitonin gene-related peptide in central vagal cholinergic-dependent protection against gastric injury in urethane-anesthetized rats. Kato K, et al. **Digestion** 1996;57(5):322–7

Influence of the neurotoxin capsaicin on rat pancreatic islets in culture, and on the pancreatic islet blood flow of rats. Carlsson PO, et al. **Eur J Pharmacol** 1996 Sep 19; 312(1):75–81

Calcitonin gene-related peptide-induced preconditioning protects against ischemia-reperfusion injury in isolated rat hearts. Li YJ, et al. **Eur J Pharmacol** 1996 Sep 12; 311(2–3):163–7

Calcitonin gene-related peptide is a depressor in NG-nitro-L-arginine methyl ester-induced hypertension during pregnancy. Gangula PR, et al. **Hypertension** 1997 Jan;29(1 Pt 2):248–53

Calcitonin gene-related peptide is a depressor of deoxycorticosterone-salt hypertension in the rat. Supowit SC, et al. **Hypertension** 1997 Apr;29(4):945–50

Central projection of calcitonin gene-related peptide (CGRP)- and substance P (SP)-immunoreactive trigeminal primary neurons in the rat. Sugimoto T, et al. **J Comp Neurol** 1997 Feb 17;378(3):425–42

Role of calcitonin gene-related peptide in the vascular system on the development of the hyperdynamic circulation in conscious cirrhotic rats. Hori N, et al. **J Hepatol** 1997 May; 26(5):1111–9

Targeted expression of the neuropeptide calcitonin gene-related peptide to beta cells prevents diabetes in NOD mice. Khachatryan A, et al. **J Immunol** 1997 Feb 1; 158(3):1409–16

Inhibition by hydroxyl radicals of calcitonin gene-related peptide-mediated neurogenic vasorelaxation in isolated canine lingual artery. Norisue M, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):492–500

The protective effects of ischemic and calcitonin gene-related peptide-induced preconditioning on myocardial injury by endothelin-1 in the isolated perfused rat heart. Peng CF, et al. **Life Sci** 1996;59(18):1507–14

The inhibitory modulation of guinea-pig intestinal peristalsis caused by capsaicin involves calcitonin gene-related peptide and nitric oxide. Bartho L, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):102–9

The involvement of nitric oxide (NO) in the CGRP-induced behavior of rats. Kovács A, et al. **Peptides** 1996; 17(7):1183–7

On the role of tachykinins and calcitonin gene-related peptide in the spinal mechanisms of nociception and in the induction and maintenance of inflammation-evoked hyperexcitability in spinal cord neurons (with special reference to nociception in joints). Schaible HG. **Prog Brain Res** 1996;113:423–41 (152 ref.)

Relationship of neuropeptides to nitrergic innervation of the canine laryngeal glands. Hisa Y, et al. **Regul Pept** 1996 Oct 22;66(3):197–201

Relation of calcitonin gene-related peptide to systemic vasodilatation and central hypovolaemia in cirrhosis. Møller S, et al. **Scand J Gastroenterol** 1996 Sep; 31(9):928–33

[Vasodilation in cirrhosis: is CGRP (calcitonin gene-related peptide) also among the possible mediators?] Paoletti V, et al. **Clin Ter** 1996 Oct;147(10):505–14 (34 ref.) (Eng. Abstr.) **(Ita)**

SECRETION

Lactic acid potentiates bradykinin- and low-pH-induced release of CGRP from rat spinal cord slices. Wang X, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E92–8

Calcitonin gene-related peptide is released from capsaicin-sensitive nerve fibres and induces vasodilatation of human cerebral arteries concomitant with activation of adenylyl cyclase [see comments] Jansen-Olesen I, et al. **Cephalalgia** 1996 Aug;16(5):310–6. Comment in: Cephalalgia 1996 Aug;16(5):287.

Mutual dependence of calcitonin-gene related peptide and acetylcholine release in neuromuscular preparations. Kimura I, et al. **Eur J Pharmacol** 1997 Jul 9;330(2–3):123–8

Selective localization and regulated release of calcitonin gene-related peptide from dense-core vesicles in engineered PC12 cells. Schweitzer ES, et al. **J Neurosci Res** 1996 Dec 1;46(5):519–30

Glyceryl nonivamide: a capsaicin derivative with cardiac calcitonin gene-related peptide releasing, K+ channel opening and vasorelaxant properties. Lo YC, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):253–60

Plasma extravasation and neuropeptide release in human skin as measured by intradermal microdialysis. Schmelz M, et al. **Neurosci Lett** 1997 Jul 18;230(2):117–20

Peptidase inhibitors improve recovery of substance P and calcitonin gene-related peptide release from rat spinal cord slices. Chen JJ, et al. **Peptides** 1996;17(1):31–7

Release of calcitonin gene-related peptide in guinea pig inferior mesenteric ganglion. Ma RC, et al. **Peptides** 1996; 17(1):161–70

THERAPEUTIC USE

Progesterone up-regulates vasodilator effects of calcitonin gene-related peptide in N(G)-nitro-L-arginine methyl ester-induced hypertension. Gangula PR, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):894–900

Calcitonin gene-related peptide: vasoactive effects and potential therapeutic role. Brain SD, et al. **Gen Pharmacol** 1996 Jun;27(4):607–11 (36 ref.)

A protective role for calcitonin gene-related peptide in water-immersion stress-induced gastric ulcers in rats. Evangelista S, et al. **Pharmacol Res** 1997 Apr;35(4):347–50

CALCITONIN GENE-RELATED PEPTIDE RECEPTORS see **RECEPTORS, CALCITONIN GENE-RELATED PEPTIDE**

CALCITONIN RECEPTORS see **RECEPTORS, CALCITONIN**

CALCITRIOL

see related
RECEPTORS, CALCITRIOL

ADMINISTRATION & DOSAGE

Topical calcitriol (1,25-dihydroxyvitamin D3) treatment of psoriasis: an immunohistological evaluation. Reichrath J, et al. **Acta Derm Venereol** 1997 Jul;77(4):268–72

Transient hyperpigmentation after calcipotriol ointment and PUVA therapy in psoriatic patients [letter; comment] Vázqvez-López F, et al. **Acta Derm Venereol** 1996 Sep; 76(5):400. Comment on: Acta Derm Venereol 1995 Jul;75(4):307–9.

Effect of vitamin D metabolites and analogs on renal and intestinal calbindin-D in the rat. Hemmingsen C, et al. **Calcif Tissue Int** 1996 Nov;59(5):371–6

Comparison of endothelium-derived relaxing factor activity between nonpregnant and pregnant rats. Honda H, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Jul;114(3):193–6

Effect of UVB phototherapy and oral calcitriol (1,25-dihydroxyvitamin D3) on vitamin D photosynthesis in patients with psoriasis. Prystowsky JH, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):690–5

Effects of intermittent hPTH(1–34) alone and in combination with 1,25(OH)(2)D(3) or risedronate on endosteal bone remodeling in canine cancellous and cortical bone. Boyce RW, et al. **J Bone Miner Res** 1996 May;11(5):600–13

Intravenous 1,25(OH)2D therapy increases the intact parathyroid hormone secretion set point in hemodialyzed patients. Brossard JH, et al. **Miner Electrolyte Metab** 1997; 23(1):25–32

A crossover comparison of intermittent oral and intravenous administration of calcitriol on the parathyroid hormone concentration in hemodialysis patients. Peng SJ, et al. **Miner Electrolyte Metab** 1997;23(1):13–8

Can massive parathyroid enlargement in predialysis patients be reversed by medical treatment? Bedani PL, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2330–2

Practical guidelines for effective treatment of the osteodystrophic uraemic syndrome with intravenous calcitriol. Cannella G, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 3:50–3

Guidelines for dosing of intravenous calcitriol in dialysis patients with hyperparathyroidism. Fernandez E, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:96–101 (21 ref.)

Is oral intermittent calcitriol more effective than daily calcitriol therapy in suppressing overt secondary hyperparathyroidism in predialysis patients? [letter; comment] Fournier A, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):365–7. Comment on: Nephrol Dial Transplant 1996 May;11(5):910–1.

Low-dose calcitriol prevents the rise in 1,84-iPTH without affecting serum calcium and phosphate in patients with moderate renal failure (prospective placebo-controlled multicentre trial). Ritz E, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2228–34

Usefulness and pharmacokinetics of subcutaneous calcitriol in the treatment of secondary hyperparathyroidism. Torregrosa JV, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:54–7

Induction of the differentiation of HL-60 promyelocytic leukemia cells by curcumin in combination with low levels of vitamin D3. Sokoloski JA, et al. **Oncol Res** 1997; 9(1):31–9

Calcitriol administration in end-stage renal disease: intravenous or oral? Quarles LD, et al. **Pediatr Nephrol** 1996 Jun;10(3):331–6 (42 ref.)

Low calcium diet and 1,25-dihydroxyvitamin D(3) infusion modulate immune responses during Mycobacterium paratuberculosis infection in beige mice. Stabel JR, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1–2):127–43

[Effects of high dose pulse oral calcitriol on secondary hyperparathyroidism in patients with end-stage renal disease] Yang J, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Feb;35(2):89–91 (Eng. Abstr.) **(Chi)**

[A therapeutic alternative to the economical vitamin D is the active metabolite calcitriol] Allolio B. **Internist (Berl)** 1996 Oct;37(10):1057–8 **(Ger)**

[The effect of calcitriol on renal anemia in patients under chronic hemodialysis] Abou-Khalil N, et al. **Orv Hetil** 1996 Jul 7;137(27):1469–72 (Eng. Abstr.) **(Hun)**

[Adult-onset sex-linked familial hypophosphatemic osteomalacia] Radó J, et al. **Orv Hetil** 1997 Jun 29; 138(26):1683–8 (Eng. Abstr.) **(Hun)**

[Medical parathyroidectomy. Its efficacy in treatment of lower maxillary brown tumor] Graciela Garcia M, et al. **Medicina (B Aires)** 1996;56(1):59–62 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Transient hyperpigmentation after calcipotriol ointment and PUVA therapy in psoriatic patients [letter; comment] Vázqvez-López F, et al. **Acta Derm Venereol** 1996 Sep; 76(5):400. Comment on: Acta Derm Venereol 1995 Jul;75(4):307–9.

Vitamin D analogues in psoriasis: effects on systemic calcium homeostasis. Bourke JF, et al. **Br J Dermatol** 1996 Sep; 135(3):347–54 (47 ref.)

Characterization of irritant patch test reactions to topical D vitamins and all-trans retinoic acid in comparison with sodium lauryl sulphate. Evaluation by clinical scoring and multiparametric non-invasive measuring techniques. Fullerton A, et al. **Br J Dermatol** 1997 Aug;137(2):234–40

A long-term multicentre assessment of the safety and tolerability of calcitriol ointment in the treatment of chronic plaque psoriasis. Langner A, et al. **Br J Dermatol** 1996 Sep;135(3):385–9

[Tertiary hyperparathyroidism during the treatment of familiar hypophosphatemic rickets] Moreno Molina JA, et al. **An Esp Pediatr** 1996 Aug;45(2):193–5 **(Spa)**

ANALOGS & DERIVATIVES

A randomized double-blind comparison of the effects on systemic calcium homeostasis of topical calcitriol (3 micrograms/g) and calcipotriol (50 micrograms/g) in the treatment of chronic plaque psoriasis vulgaris. Bourke JF, et al. **Acta Derm Venereol** 1997 May;77(3):228–30

Skin ultrastructure after calcipotriol treatment: a transmission electron microscopic and freeze-fracture study on psoriatic patients. Cavicchini S, et al. **Acta Derm Venereol** 1996 May; 76(3):186–9

Patch test study with calcipotriol ointment in different patient groups, including psoriatic patients with and without adverse dermatitis. Fullerton A, et al. **Acta Derm Venereol** 1996 May;76(3):194–202

Ultrastructure of murine dermis following topical application of the vitamin D3 analogue KH-1060. Kobayasi T. **Acta Derm Venereol** 1997 May;77(3):198–202

Flow-cytometric investigation of epidermal cell characteristics in monogenic disorders of keratinization and their modulation by topical calcipotriol treatment. Lucker GP, et al. **Acta Derm Venereol** 1996 Mar;76(2):97–101

Contact dermatitis after calcipotriol and patch test evaluation [letter] Molin L. **Acta Derm Venereol** 1996 Mar;76(2):163–4

20-Epi-vitamin D3 analogs. Potent modulators of proliferation and differentiation of breast cancer cell lines in vitro. Elstner E, et al. **Adv Exp Med Biol** 1996;399:53–70

Two cases of contact dermatitis caused by calcipotriol cream. Garcia-Bravo B, et al. **Am J Contact Dermat** 1996 Jun; 7(2):118–9 (5 ref.)

Comparison of 22-oxacalcitriol and 1,25(OH)2D3 on bone metabolism in young X-linked hypophosphatemic male mice. Halstead LR, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E141–7

Reduction of UV-A radiation induced by calcipotriol in the

treatment of vulgar psoriasis with oral psoralen plus UV-A [letter] Kokelj F, et al. **Arch Dermatol** 1997 May; 133(5):668–9

Calcipotriene ointment applied once a day for psoriasis: a double-blind, multicenter, placebo-controlled study [letter] Pariser DM, et al. **Arch Dermatol** 1996 Dec;132(12):1527

Topical calcipotriol for treatment of inflammatory linear verrucous epidermal nevus. Zvulunov A, et al. **Arch Dermatol** 1997 May;133(5):567–8

Epidermal differentiation characteristics of the psoriatic plaque during treatment with calcipotriol. van der Vleuten CJ, et al. **Arch Dermatol Res** 1996 Jun;288(7):366–72

Antineoplastic effect of 1,25-dihydroxy-16-ene-23-yne-vitamin D3 analogue in transgenic mice with retinoblastoma. Shternfeld IS, et al. **Arch Ophthalmol** 1996 Nov;114(11):1396–401

Metabolism of the vitamin D analog EB 1089: identification of in vivo and in vitro liver metabolites and their biological activities. Kissmeyer AM, et al. **Biochem Pharmacol** 1997 Apr 25;53(8):1087–97

Effects of calcitriol and its analogues, calcipotriol (MC 903) and 20-epi-1alpha,25-dihydroxyvitamin D3 (MC 1288), on calcium influx and DNA synthesis in cultured muscle cells. Selles J, et al. **Biochem Pharmacol** 1997 Jun 15; 53(12):1807–14

Metabolism of the vitamin D analog EB1089 by cultured human cells: redirection of hydroxylation site to distal carbons of the side-chain [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1946] Shankar VN, et al. **Biochem Pharmacol** 1997 Mar 21;53(6):783–93

Myeloma cell growth arrest, apoptosis, and interleukin-6 receptor modulation induced by EB1089, a vitamin D3 derivative, alone or in association with dexamethasone. Puthier D, et al. **Blood** 1996 Dec 15;88(12):4659–66

Effects of 1alpha,25-dihydroxy-16ene, 23yne-vitamin D3 on osteoblastic function in human osteosarcoma SaOS-2 cells: differentiation-stage dependence and modulation by 17-beta estradiol. Rao LG, et al. **Bone** 1996 Dec; 19(6):621–7

Vitamin D analogues up-regulate p21 and p27 during growth inhibition of pancreatic cancer cell lines. Kawa S, et al. **Br J Cancer** 1997;76(7):884–9

Comparative effects of calcipotriol ointment (50 micrograms/g) and 5% coal tar/2% allantoin/0.5% hydrocortisone cream in treating plaque psoriasis. Pinheiro N. **Br J Clin Pract** 1997 Jan-Feb;51(1):16–9

Efficacy of calcipotriol in psoriasis. **Br J Clin Pract Symp Suppl** 1996 Feb;83:8–25 (0 ref.)

Safety and tolerability of calcipotriol in psoriasis. **Br J Clin Pract Symp Suppl** 1996 Feb;83:26–8

Calcipotriol in other dermatological disorders. **Br J Clin Pract Symp Suppl** 1996 Feb;83:29

Pharmacology, pharmacokinetics and metabolism. **Br J Clin Pract Symp Suppl** 1996 Feb;83:3–7

Safety and efficacy of calcipotriol ointment (Dovonex) in treating children with psoriasis vulgaris. Darley CR, et al. **Br J Dermatol** 1996 Sep;135(3):390–3

Effects of calcipotriol on stratum corneum barrier function, hydration and cell renewal in humans. Effendy I, et al. **Br J Dermatol** 1996 Oct;135(4):545–9

Successful treatment for acrodermatitis continua of Hallopeau using topical calcipotriol. Emtestam L, et al. **Br J Dermatol** 1996 Oct;135(4):644–6

Epidermal cell DNA content and intermediate filaments keratin 10 and vimentin after treatment of psoriasis with calcipotriol cream once daily, twice daily and in combination with clobetasone 17-butyrate cream or betamethasone 17-valerate cream: a comparative flow cytometric study. Glade CP, et al. **Br J Dermatol** 1996 Sep;135(3):379–84

Topical calcipotriol in the treatment of intertriginous psoriasis. Kienbaum S, et al. **Br J Dermatol** 1996 Oct; 135(4):647–50

Vitamin D receptor polymorphism and treatment of psoriasis with calcipotriol [letter] Kontula K, et al. **Br J Dermatol** 1997 Jun;136(6):977–8

Comparative efficacy of calcipotriol (MC903) cream and betamethasone 17-valerate cream in the treatment of chronic plaque psoriasis. A randomized, double-blind, parallel group multicentre study. Calcipotriol Study Group. Molin L, et al. **Br J Dermatol** 1997 Jan;136(1):89–93

Effects of 1,25-dihydroxyvitamin D3 and its 20-epi analogues (MC 1288, MC 1301, KH 1060), on clonal keratinocyte growth: evidence for differentiation of keratinocyte stem cells and analysis of the modulatory effects of cytokines. Gniadecki R. **Br J Pharmacol** 1997 Mar;120(6):1119–27

The in vitro effect of vitamin D3 analogue EB-1089 on a human prostate cancer cell line (PC-3). Wang X, et al. **Br J Urol** 1997 Aug;80(2):260–2

Comparative effects of 1,25(OH)2D3 and EB1089 on cell cycle kinetics and apoptosis in MCF-7 breast cancer cells. Simboli-Campbell M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):31–41

Effect of vitamin D metabolites and analogs on renal and intestinal calbindin-D in the rat. Hemmingsen C, et al. **Calcif Tissue Int** 1996 Nov;59(5):371–6

Emergence of osteoblast-like cells in a neoplastic human salivary cancer cell line after treatment with 22-oxa-1alpha, 25-dihydroxyvitamin D3. Sato M, et al. **Cancer Lett** 1997 May 19;115(2):149–60

Potentiation of cisplatin antitumor activity using a vitamin D analogue in a murine squamous cell carcinoma model system. Light BW, et al. **Cancer Res** 1997 Sep 1; 57(17):3759–64

Synthetic studies of vitamin D analogs. XXII. Synthesis and antiproliferation activity of putative metabolites of 1 alpha, 25-dihydroxy-22-oxavitamin D3. Watanabe H, et al. **Chem Pharm Bull (Tokyo)** 1996 Dec;44(12):2280–6

A single topical application of calcipotriol (50 micrograms/g) ointment has no acute effect on systemic calcium homeostasis in patients with chronic plaque psoriasis [letter] Bourke JF, et al. **Clin Exp Dermatol** 1996 Jul;21(4):320–1

Topical D-vitamins: multiparametric comparison of the irritant potential of calcipotriol, tacalcitol and calcitriol in a hairless guinea pig model. Fullerton A, et al. **Contact Dermatitis** 1997 Apr;36(4):184–90

Effect of a topical corticosteroid, a retinoid and a vitamin D3 derivative on sodium dodecyl sulphate induced skin irritation. Le TK, et al. **Contact Dermatitis** 1997 Jul; 37(1):19–26

Allergic contact dermatitis to propylene glycol in calcipotriene ointment. Fisher DA. **Cutis** 1997 Jul; 60(1):43–4

Acrodermatitis continua of Hallopeau: response to combined treatment with acitretin and calcipotriol ointment. Kuijpers AL, et al. **Dermatology** 1996;192(4):357–9

Vitamin D3 analog, EB1089, inhibits growth of subcutaneous xenografts of the human colon cancer cell line, LoVo, in a nude mouse model. Akhter J, et al. **Dis Colon Rectum** 1997 Mar;40(3):317–21

Inhibition of insulin- and insulin-like growth factor-I-stimulated growth of human breast cancer cells by 1,25-dihydroxyvitamin D3 and the vitamin D3 analogue EB1089. Vink-van Wijngaarden T, et al. **Eur J Cancer** 1996 May;32A(5):842–8

1,25-(OH)2-vitamin D3 and calcipotriol induce IL-10 receptor gene expression in human epidermal cells. Michel G, et al. **Inflamm Res** 1997 Jan;46(1):32–4

Calcipotriol in psoriasis vulgaris: a controlled trial comparing betamethasone dipropionate + salicylic acid. Crosti C, et al. **Int J Dermatol** 1997 Jul;36(7):537–9

Topical calcipotriene in combination with UVB phototherapy for psoriasis. Hecker D, et al. **Int J Dermatol** 1997 Apr;36(4):302–3

Psoriasis and calcipotriol: an overview. Jain S, et al. **Int J Dermatol** 1997 Apr;36(4):255–8 (46 ref.)

Keratosis lichenoides chronica: response to topical calcipotriol. Grunwald MH, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 1):263–4

Interactions between calcipotriene and ultraviolet light. Lebwohl M, et al. **J Am Acad Dermatol** 1997 Jul;37(1):93–5

Combination phototherapy of psoriasis with calcipotriene and narrow-band (311 nm) UVB [letter; comment] Lehmann P, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):501–2 . Comment on: J Am Acad Dermatol 1996 Mar;34(3):539–40.

Topical calcipotriol in childhood psoriasis. Oranje AP, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):203–8

Biologic effects of topical calcipotriol (MC 903) treatment in psoriatic skin. Reichrath J, et al. **J Am Acad Dermatol** 1997 Jan;36(1):19–28

Topical calcipotriene ointment and etretinate: another combination therapy for psoriasis vulgaris [letter; comment] Vázquez-López F, et al. **J Am Acad Dermatol** 1997 May; 36(5 Pt 1):803. Comment on: J Am Acad Dermatol 1996 Feb;34(2 Pt 1):315–21.

Regulation of vitamin D-responsive gene expression by fluorinated analogs of calcitriol in rat osteoblastic ROB-C26 cells. Miyamoto Y, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1068–76

Differential interaction of 1alpha,25-dihydroxyvitamin D3 analogues and their 20-epi homologues with the vitamin D receptor. Liu YY, et al. **J Biol Chem** 1997 Feb 7; 272(6):3336–45

1alpha,25-dihydroxyvitamin D3-24-hydroxylase (CYP24) hydroxylates the carbon at the end of the side chain (C-26) of the C-24-fluorinated analog of 1alpha,25-dihydroxyvitamin D3. Miyamoto Y, et al. **J Biol Chem** 1997 May 30;272(22):14115–9

Effects of a synthetic vitamin D analog, ED-71, on bone dynamics and strength in cancellous and cortical bone in prednisolone-treated rats. Tanaka Y, et al. **J Bone Miner Res** 1996 Mar;11(3):325–36

Potent gene regulatory and antiproliferative activities of 20-methyl analogues of 1,25 dihydroxyvitamin D3. Danielsson C, et al. **J Cell Biochem** 1996 Nov 1; 63(2):199–206

High-affinity nuclear receptor binding of 20-epi analogues of 1,25-dihydroxyvitamin D3 correlates well with gene activation. Nayeri S, et al. **J Cell Biochem** 1996 Sep 1; 62(3):325–33

A 20-epi side chain restores growth-regulatory and transcriptional activities of an A ring-modified hybrid analog of 1 alpha, 25-dihydroxyvitamin D3 without increasing its affinity to the vitamin D receptor. Peleg S, et al. **J Cell Biochem** 1996 Nov 1;63(2):149–61

Effects of the vitamin D3 analog 1 alpha, 25-dihydroxyvitamin D3-3 beta-bromoacetate on rat osteosarcoma cells: comparison with 1 alpha, 25-dihydroxyvitamin D3. Van Auken M, et al. **J Cell Biochem** 1996 Dec 1;63(3):302–10

A-ring analogues of 1, 25-(OH)2D3 with low affinity for the vitamin D receptor modulate chondrocytes via membrane effects that are dependent on cell maturation. Greising DM, et al. **J Cell Physiol** 1997 Jun;171(3):357–67

Synergistic decrease of clonal proliferation, induction of differentiation, and apoptosis of acute promyelocytic leukemia cells after combined treatment with novel 20-epi vitamin D3 analogs and 9-cis retinoic acid. Elstner E, et al. **J Clin Invest** 1997 Jan 15;99(2):349–60

1,25-Dihydroxyvitamin D3 and a new analogue, 22-oxacalcitriol, modulate proliferation and interleukin-8 secretion of normal human keratinocytes. Koizumi H, et al. **J Dermatol Sci** 1997 Sep;15(3):207–13

Synthesis and biological activity of 1 alpha, 25-dihydroxy-18-norvitamin D3 and 1 alpha, 25-dihydroxy-18,19-dinorvitamin D3. Sicinski RR, et al. **J Med Chem** 1996 Oct 25;39(22):4497–506

Antiproliferative action of vitamin D-related compounds and insulin-like growth factor-binding protein 5 accumulation. Rozen F, et al. **J Natl Cancer Inst** 1997 May 7;89(9):652–6

Effects of 1,25 dihydroxyvitamin D3 and its analogues on induction of apoptosis in breast cancer cells. James SY, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):395–401

1alpha,25-dihydroxy-24-oxo-16-ene vitamin D3, a metabolite of a synthetic vitamin D3 analog, 1alpha,25-dihydroxy-16-ene vitamin D3, is equipotent to its parent in modulating growth and differentiation of human leukemic cells. Siu-Caldera ML, et al. **J Steroid Biochem Mol Biol** 1996 Dec;59(5-6):405–12

A 61-year-old man with psoriasis, 1 year later. Delbanco TL, et al. **JAMA** 1997 Jul 23-30;278(4):328

1,25-dihydroxyvitamin D3 and the synthetic vitamin D analogue, KH 1060, modulate the growth of mouse proximal tubular cells. Weinreich T, et al. **Kidney Blood Press Res** 1996;19(6):325–31

1,25-dihydroxyvitamin D3 and 22-oxacalcitriol prevent the decrease in vitamin D receptor content in the parathyroid glands of uremic rats. Denda M, et al. **Kidney Int** 1996 Jul;50(1):34–9

Mutation in the ligand-binding domain of the retinoic acid receptor alpha in HL-60 leukemic cells resistant to retinoic acid and with increased sensitivity to vitamin D3 analogs. Doré BT, et al. **Leuk Res** 1996 Sep;20(9):761–9

CB1093, a novel vitamin D analog; effects on differentiation and clonal growth on HL-60 and de novo leukemia cells. Pakkala I, et al. **Leuk Res** 1997 Apr;21(4):321–6

Interaction of vitamin D derivatives and granulocyte-macrophage colony-stimulating factor in leukaemic cell differentiation. James SY, et al. **Leukemia** 1997 Jul;11(7):1017–25

Effect of a vitamin D3 analog, EB1089, on hematopoietic stem cells from normal and myeloid leukemic blasts. Lee YY, et al. **Leukemia** 1996 Nov;10(11):1751–7

The noncalcemic vitamin D analogues EB1089 and 22-oxacalcitriol interact with the vitamin D receptor and suppress parathyroid hormone-related peptide gene expression. Falzon M. **Mol Cell Endocrinol** 1997 Mar 14; 127(1):99–108

Comparison of 6-s-cis- and 6-s-trans-locked analogs of 1alpha,25-dihydroxyvitamin D3 indicates that the 6-s-cis conformation is preferred for rapid nongenomic biological responses and that neither 6-s-cis- nor 6-s-trans-locked analogs are preferred for genomic biological responses. Norman AW, et al. **Mol Endocrinol** 1997 Sep; 11(10):1518–31

Analysis of vitamin D analog-induced heterodimerization of vitamin D receptor with retinoid X receptor using the yeast two-hybrid system. Zhao XY, et al. **Mol Endocrinol** 1997 Mar;11(3):366–78

Effects of new vitamin D analogues on parathyroid function in chronically uraemic rats with secondary hyperparathyroidism. Hruby M, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1781–6

Effect of 22-oxacalcitriol on hyperparathyroidism of dialysis patients: results of a preliminary study. Kurokawa K, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:121–4

Proliferation and differentiation of cultured human keratinocytes is modulated by 1,25(OH)2D3 and synthetic vitamin D3 analogues in a cell density-, calcium- and serum-dependent manner. Svendsen ML, et al. **Pharmacol Toxicol** 1997 Jan;80(1):49–56

Conformational change and enhanced stabilization of the vitamin D receptor by the 1,25-dihydroxyvitamin D3 analog KH1060. van den Bemd GC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10685–90

Evaluation of topical antipsoriatic treatment by chromametry, visiometry and 20-MHz ultrasound in the psoriasis plaque test. Bangha E, et al. **Skin Pharmacol** 1996; 9(5):298–306

Effects of calcipotriol and clobetasol-17-propionate on UVB-irradiated human skin: an immunohistochemical study. van der Vleuten CJ, et al. **Skin Pharmacol** 1996; 9(6):355–65

Long-term effectiveness and safety of topical calcipotriene for psoriasis. Calcipotriene Study Group. Cullen SI. **South Med J** 1996 Nov;89(11):1053–6

Synthesis and in vitro evaluation of side chain-unsaturated analogs of 24a,24b-dihomo-1,25-dihydroxycholecalciferol. Chodyński M, et al. **Steroids** 1997 Jul;62(7):546–53

Synthesis and biological activities of 26-hydroxy-27-nor-derivatives of 1 alpha, 25-dihydroxyvitamin D3. Scheddin D, et al. **Steroids** 1996 Oct;61(10):598–608

Calcipotriol poisoning in dogs [letter] Campbell A. **Vet Rec** 1997 Jul 5;141(1):27–8

[Evaluation of topical calcipotriol in psoriasis] Welsh-Lozano O, et al. **Gac Med Mex** 1996 Sep-Oct;132(5):471-4 (Eng. Abstr.) **(Spa)**

ANTAGONISTS & INHIBITORS

Noradrenaline inhibits the programmed cell death induced by 1,25-dihydroxyvitamin D3 in glioma. Canova C, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):365-8

24R,25-(OH)2 vitamin D3 inhibits 1alpha,25-(OH)2 vitamin D3 and testosterone potentiation of calcium channels in osteosarcoma cells. Takeuchi K, et al. **J Biol Chem** 1996 Dec 27;271(52):33335-43

Retinoic acid modulates the anti-proliferative effect of 1,25-dihydroxyvitamin D3 in cultured human epidermal keratinocytes. Segaert S, et al. **J Invest Dermatol** 1997 Jul; 109(1):46-54

BIOSYNTHESIS

Renal calcitriol synthesis and serum phosphorus in response to dietary phosphorus restriction and anabolic agents. Grieff M, et al. **Am J Kidney Dis** 1996 Oct;28(4):589-95

Insulin-like growth factor I increases renal 1,25(OH)2D3 biosynthesis during low-P diet in adult rats. Wong MS, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F698-703

Effects of short-term insulin-like growth factor-I or growth hormone treatment on bone turnover, renal phosphate reabsorption and 1,25 dihydroxyvitamin D3 production in healthy man. Bianda T, et al. **J Intern Med** 1997 Feb; 241(2):143-50

HaCaT cell line as a model system for vitamin D3 metabolism in human skin. Lehmann B. **J Invest Dermatol** 1997 Jan; 108(1):78-82

A deficit of calcitriol synthesis may not be the initial factor in the pathogenesis of secondary hyperparathyroidism. Martinez I, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:22-8

25-Hydroxyvitamin D3 1alpha-hydroxylase and vitamin D synthesis. Takeyama K, et al. **Science** 1997 Sep 19; 277(5333):1827-30

BLOOD

NaCl ingestion ameliorates plasma indexes of calcium deficiency. Tordoff MG. **Am J Physiol** 1997 Jul;273(1 Pt 2):R423-32

A selective immunoaffinity chromatography for determination of plasma 1 alpha, 25-dihydroxyvitamin D3: application of specific antibodies raised against a 1 alpha, 25-dihydroxyvitamin D3-bovine serum albumin conjugate linked through the 11 alpha-position. Kobayashi N, et al. **Anal Biochem** 1997 Jan 15;244(2):374-83

Parathyroid hormone suppression in spinal cord injury patients is associated with the degree of neurologic impairment and not the level of injury. Mechanick JI, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):692-6

Calcitriol and bone mass accumulation in females during puberty. Ilich JZ, et al. **Calcif Tissue Int** 1997 Aug; 61(2):104-9

Effect of vitamin D receptor genotypes on calcium absorption, duodenal vitamin D receptor concentration, and serum 1,25 dihydroxyvitamin D levels in normal women. Kinyamu HK, et al. **Calcif Tissue Int** 1997 Jun; 60(6):491-5

Serum levels of vitamin D metabolites and the subsequent risk of colon and rectal cancer in Finnish men. Tangrea J, et al. **Cancer Causes Control** 1997 Jul;8(4):615-25

Ethnic origin and serum levels of 1alpha,25-dihydroxyvitamin D3 are independent predictors of coronary calcium mass measured by electron-beam computed tomography. Doherty TM, et al. **Circulation** 1997 Sep 2;96(5):1477-81

Duodenal active calcium transport in female rats increases with serum calcitriol concentrations, but reaches a plateau far below maximal calcitriol levels. Boass A, et al. **J Bone Miner Res** 1996 Nov;11(11):1640-5

Regulation of serum calcitriol by serum ionized calcium in rats during pregnancy and lactation. Boass A, et al. **J Bone Miner Res** 1997 Jun;12(6):909-14

Association between intestinal vitamin D receptor, calcium absorption, and serum 1,25 dihydroxyvitamin D in normal young and elderly women. Kinyamu HK, et al. **J Bone Miner Res** 1997 Jun;12(6):922-8

Effect of parathyroid hormone (hPTH[1-34]) infusion on serum 1,25-dihydroxyvitamin D and parathyroid hormone in normal women. Kinyamu HK, et al. **J Bone Miner Res** 1996 Oct;11(10):1400-5

Fluorimetric assay of 1 alpha,25-dihydroxyvitamin D3 in human plasma. Shimizu M, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):15-23

Simplified method for the determination of 25-hydroxy and 1alpha,25-dihydroxy metabolites of vitamins D2 and D3 in human plasma. Application to nutritional studies. Takeuchi A, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):313-9

Increased catabolism of 25-hydroxyvitamin D in patients with partial gastrectomy and elevated 1,25-dihydroxyvitamin D levels. Implications for metabolic bone disease. Davies M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):209-12

Serum 1,25-dihydroxyvitamin D may be related inversely to disease activity in breast cancer patients with bone metastases. Mawer EB, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):118-22

Dose the plasma concentration of 25-hydroxyvitamin D determine the level of 1,25-dihydroxyvitamin D in primary hyperparathyroidism? Frølich A, et al. **Miner Electrolyte Metab** 1996;22(4):203-6

The interaction of PTH and dietary phosphorus and calcium on serum calcitriol levels in the rat with experimental renal failure. Martin-Malo A, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1553-8

Effect of growth hormone on urine calcium and serum vitamin D metabolites in renal failure. Strife CF, et al. **Pediatr Nephrol** 1996 Oct;10(5):648-50

Parathormone, 1,25 dihydroxyvitamin D and prostaglandin E2 correlation in children with idiopathic hypercalciuria. Hasanoğlu A, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Mar; 56(3):235-7

Measurement of vitamin D and its metabolites (calcidiol and calcitriol) and their clinical significance. Schmidt-Gayk H, et al. **Scand J Clin Lab Invest Suppl** 1997;227:35-45 (36 ref.)

[Relative depletion in native vitamin D: a potential risk factor in Algerian hemodialysis patients with radiological evidence of hyperparathyroidism and osteomalacia independent of calcitriolemia] Atik A, et al. **Nephrologie** 1997;18(2):47-52 (Eng. Abstr.) **(Fre)**

[Levels of dihydroxyvitamin D3 and hydroxyvitamin D in patients with chronic renal insufficiency] Lazarević M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:108-11 (Eng. Abstr.) **(Scc)**

CHEMICAL SYNTHESIS

Synthesis and biological activities of 26-hydroxy-27-nor-derivatives of 1 alpha, 25-dihydroxyvitamin D3. Scheddin D, et al. **Steroids** 1996 Oct;61(10):598-608

CHEMISTRY

Comparison of 6-s-cis- and 6-s-trans-locked analogs of 1alpha,25-dihydroxyvitamin D3 indicates that the 6-s-cis conformation is preferred for rapid nongenomic biological responses and that neither 6-s-cis- nor 6-s-trans-locked analogs are preferred for genomic biological responses. Norman AW, et al. **Mol Endocrinol** 1997 Sep; 11(10):1518-31

DEFICIENCY

Bone marrow stromal cell defects and 1 alpha,25-dihydroxyvitamin D3 deficiency underlying human myeloid leukemias. Blazsek I, et al. **Cancer Detect Prev** 1996;20(1):31-42

Hepatic expression of regeneration marker genes following partial hepatectomy in the rat. Influence of 1,25-dihydroxyvitamin D3 in hypocalcemia. Goupil D, et al. **J Hepatol** 1997 Mar;26(3):659-68

GENETICS

Functional characterization of a novel type of 1 alpha,25-dihydroxyvitamin D3 response element identified in the mouse c-fos promoter. Schräder M, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):646-51

Retinoid X receptor-specific ligands synergistically upregulate 1, 25-dihydroxyvitamin D3-dependent transcription in epidermal keratinocytes in vitro and in vivo. Li XY, et al. **J Invest Dermatol** 1997 Apr; 108(4):506-12

METABOLISM

Synthesis, stereochemistry, and biological activity of 1alpha,23,25-trihydroxy-24-oxovitamin D3, a major natural metabolite of 1alpha,25-dihydroxyvitamin D3. Lee NE, et al. **Biochemistry** 1997 Aug 5;36(31):9429-37

Lack of in vitro evidence for storage of 1,25-dihydroxycholecalciferol (1,25(OH)2D3) and 1,25(OH)2D3 binding protein in skeletal matrix. Boonen S, et al. **Calcif Tissue Int** 1996 Dec;59(6):488-91

The metabolism of vitamin D3 in response to testosterone. Otremski I, et al. **Calcif Tissue Int** 1997 May;60(5):485-7

Association of 1 alpha,25-dihydroxyvitamin D3-occupied vitamin D receptors with cellular membrane acceptance sites. Kim YS, et al. **Endocrinology** 1996 Sep;137(9):3649-58

Subcellular distribution of normal and mutant vitamin D receptors in living cells. Studies with a novel fluorescent ligand. Barsony J, et al. **J Biol Chem** 1997 Feb 28; 272(9):5774-82

Retinoid X receptor (RXR) ligands activate the human 25-hydroxyvitamin D3-24-hydroxylase promoter via RXR heterodimer binding to two vitamin D-responsive elements and elicit additive effects with 1,25-dihydroxyvitamin D3. Zou A, et al. **J Biol Chem** 1997 Jul 25;272(30):19027-34

High-affinity nuclear receptor binding of 20-epi analogues of 1,25-dihydroxyvitamin D3 correlates well with gene activation. Nayeri S, et al. **J Cell Biochem** 1996 Sep 1; 62(3):325-33

The retinoid X receptor agonist 9-cis-retinoic acid and the 24-hydroxylase inhibitor ketoconazole increase activity of 1,25-dihydroxyvitamin D3 in human skin in vivo. Kang S, et al. **J Invest Dermatol** 1997 Apr;108(4):513-8

Was the formation of 1,25-dihydroxyvitamin D3 initially a catabolic pathway? Chevalier G, et al. **Med Hypotheses** 1997 Apr;48(4):325-9

Retinoid X receptor:vitamin D3 receptor heterodimers promote stable preinitiation complex formation and direct 1,25-dihydroxyvitamin D3-dependent cell-free transcription. Lemon BD, et al. **Mol Cell Biol** 1997 Apr; 17(4):1923-37

DNA sequences in the rat parathyroid hormone-related peptide gene responsible for 1,25-dihydroxyvitamin D3-mediated transcriptional repression. Falzon M. **Mol Endocrinol** 1996 Jun;10(6):672-81

PHARMACOLOGY

Interaction between insulin-like growth factor I, growth hormone, parathyroid hormone, 1 alpha,25-dihydroxyvitamin D3 and steroids on epiphyseal chondrocytes [see comments] Klaus G, et al. **Acta Paediatr Suppl** 1996 Oct;417:69-71 (28 ref.). Comment in: Acta Paediatr Suppl 1996 Oct;417 :80.

1 alpha,25-dihydroxyvitamin D3 stimulated alkaline phosphatase activity in cultured pig kidney epithelial LLC-PK1 cells. Do Thanh X, et al. **Acta Physiol Scand** 1996 Sep;158(1):107-11

1,25(OH)2D3 modulates intracellular Ca2+ and force generation in resistance arteries. Bian K, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H230-7

Comparison of 22-oxacalcitriol and 1,25(OH)2D3 on bone metabolism in young X-linked hypophosphatemic male mice. Halstead LR, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E141-7

Increased sensitivity to 1,25(OH)2D3 in bone from genetic hypercalciuric rats. Krieger NS, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C130-5

1,25 (OH)2D3 enhances PTH-induced Ca2+ transients in preosteoblasts by activating L-type Ca2+ channels. Li W, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E599-605

1,25-Dihydroxyvitamin D3 regulation of cardiac myocyte proliferation and hypertrophy. O'Connell TD, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1751-8

Preclinical screening of the applicability of strontium as a marker for intestinal calcium absorption. Sips AJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E422-8

Downregulation of the PTH/PTHrP receptor by vitamin D3 in the osteoblast-like ROS 17/2.8 cells. Xie LY, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E654-60

1 alpha, 25-dihydroxyvitamin D3 and all-trans-retinoic acid inhibit the growth of a lung cancer cell line. Higashimoto Y, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2653-9

Inhibitory effect of erythromycin on interleukin 8 production by 1 alpha,25-dihydroxyvitamin D3-stimulated THP-1 cells. Fujii T, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1548-51

The effect of 1,25-vitamin D3 on maturation of monocytes from HIV-infected patients varies with degree of immunodeficiency. Haug CJ, et al. **APMIS** 1996 Jul-Aug; 104(7-8):539-48

Salt concentration determines 1,25-dihydroxyvitamin D3 dependency of vitamin D receptor-retinoid X receptor--vitamin D-responsive element complex formation. Kimmel-Jehan C, et al. **Arch Biochem Biophys** 1997 May 1;341(1):75-80

Inhibition by 1alpha,25-dihydroxyvitamin D3 of activin A-induced differentiation of murine erythroleukemic F5-5 cells. Nagasaki T, et al. **Arch Biochem Biophys** 1997 Jul 15;343(2):181-7

EGF receptor expression and growth of psoriatic and normal human keratinocytes are modulated by 1.25 (OH)2-vitamin D3 ex vivo. Boisseau-Garsaud AM, et al. **Arch Dermatol Res** 1996 Jul;288(8):453-7

Regulation of keratinocyte proliferation and differentiation by all-trans-retinoic acid, 9-cis-retinoic acid and 1,25-dihydroxy vitamin D3. Gibbs S, et al. **Arch Dermatol Res** 1996 Nov;288(12):729-38

Upregulation of vitamin D receptor levels by 1,25(OH)2 vitamin D3 in cultured human keratinocytes. Sølvsten H, et al. **Arch Dermatol Res** 1997 May;289(6):367-72

Inhibitory effect of 1 alpha,25-dihydroxyvitamin D3 on mast cell proliferation and A23187-induced histamine release, also accompanied by a decreased c-kit receptor. Toyota N, et al. **Arch Dermatol Res** 1996 Oct;288(11):709-15

Molecular basis for the management of secondary hyperparathyroidism in chronic renal failure. Fukagawa M, et al. **Artif Organs** 1995 Dec;19(12):1210-4 (25 ref.)

1 alpha,25-dihydroxyvitamin D3 induces very low density lipoprotein receptor mRNA expression in HL-60 cells in association with monocytic differentiation. Kohno M, et al. **Atherosclerosis** 1997 Aug;133(1):45-9

Calcitriol is a positive effector of adipose differentiation in the OB 17 cell line: relationship with the adipogenic action of triiodothyronine. Dace A, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):771-6

Molecular cloning of a 1alpha,25-dihydroxyvitamin D3-inducible transcript (DDVit 1) in human blood monocytes. Fritsche J, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):407-12

1 alpha,25-dihydroxyvitamin D3 inhibits normal human keratinocyte growth by increasing transforming growth factor beta 2 release. Haugen JD, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):618-23

Functional analysis of vitamin D response elements in the parathyroid hormone gene and a comparison with the osteocalcin gene. Hawa NS, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):352-7

Induction of apoptosis and altered nuclear/cytoplasmic distribution of the androgen receptor and prostate-specific antigen by 1alpha,25-dihydroxyvitamin D3 in androgen-responsive LNCaP cells. Hsieh T, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):539-44

1 alpha,25-(OH)2-vitamin D3 stimulates the adenylyl cyclase pathway in muscle cells by a GTP-dependent mechanism which presumably involves phosphorylation of G alpha i. Vazquez G, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):125-8

1,25-dihydroxyvitamin D3 regulates the expression of N-myc, c-myc, protein kinase C, and transforming growth factor-beta2 in neuroblastoma cells. Veenstra TD, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):15-8

Effects of IFN-beta and 1,25-dihydroxyvitamin D3 on cellular proliferation, induction of 2',5'-oligoadenylate (2-5A) synthetase and changes in immunoreactive pRB/p53 in human prostatic JCA-1 cells. Faiella L, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1085-92

IGF-I does not mediate T-lymphoblast colony formation in response to estradiol, testosterone, 1,25(OH)2 vitamin D3, and triiodothyronine: studies in control and pygmy T-cell lines. Geffner ME, et al. **Biochem Mol Med** 1996 Oct;59(1):72-9

Effects of calcitriol and its analogues, calcipotriol (MC 903) and 20-epi-1alpha,25-dihydroxyvitamin D3 (MC 1288), on calcium influx and DNA synthesis in cultured muscle cells. Selles J, et al. **Biochem Pharmacol** 1997 Jun 15; 53(12):1807-14

Involvement of protein kinase C in the modulation of 1alpha,25-dihydroxy-vitamin D3-induced 45Ca2+ uptake in rat and chick cultured myoblasts. Vazquez G, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):157-62

Induction of mouse embryonal carcinoma cell differentiation and activation of the retinoic acid receptor beta 2 promoter by 1,25-dihydroxyvitamin D3. Müschen M, et al. **Biol Chem** 1996 Nov;377(11):703-10

Role of nitric oxide in the anti-tumoral effect of retinoic acid and 1,25-dihydroxyvitamin D3 on human promonocytic leukemic cells. Dugas N, et al. **Blood** 1996 Nov 1;88(9):3528-34

1,25-dihydroxyvitamin D3 induces NAD(+)-dependent 15-hydroxyprostaglandin dehydrogenase in human neonatal monocytes. Pichaud F, et al. **Blood** 1997 Mar 15; 89(6):2105-12

Development and characterization of a porcine model to study osteoclast differentiation and activity. Galvin RJ, et al. **Bone** 1996 Sep;19(3):271-9

Dose-response effect of short-term calcitriol treatment on bone and mineral metabolism in normal males. Gram J, et al. **Bone** 1996 Jun;18(6):539-44

Hepatocyte growth factor and its actions in growth plate chondrocytes. Grumbles RM, et al. **Bone** 1996 Sep; 19(3):255-61

Helix-loop-helix-type transcription factor (HES-1) is expressed in osteoblastic cells, suppressed by 1,25(OH)2 vitamin D3, and modulates 1,25(OH)2 vitamin D3 enhancement of osteopontin gene expression. Matsue M, et al. **Bone** 1997 Apr;20(4):329-34

1 alpha,25-dihydroxyvitamin D3 stimulates sodium-dependent phosphate transport in osteoblast-like cells. Veldman CM, et al. **Bone** 1997 Jul;21(1):41-7

Vitamin D analogues up-regulate p21 and p27 during growth inhibition of pancreatic cancer cell lines. Kawa S, et al. **Br J Cancer** 1997;76(7):884-9

Effect of calcitriol on the production of T-cell-derived cytokines in psoriasis. Barna M, et al. **Br J Dermatol** 1997 Apr;136(4):536-41

Modulatory role of 1,25 dihydroxyvitamin D3 on pancreatic islet insulin release via the cyclic AMP pathway in the rat. Bourlon PM, et al. **Br J Pharmacol** 1997 Jun; 121(4):751-8

Effects of 1,25-dihydroxyvitamin D3 and its 20-epi analogues (MC 1288, MC 1301, KH 1060), on clonal keratinocyte growth: evidence for differentiation of keratinocyte stem cells and analysis of the modulatory effects of cytokines. Gniadecki R. **Br J Pharmacol** 1997 Mar;120(6):1119-27

Effects of 1,25-dihydroxyvitamin D3 on growth of mouse neuroblastoma cells. Veenstra TD, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):53-60

1,25-Dihydroxyvitamin D3 inhibits the expression of inducible nitric oxide synthase in rat central nervous system during experimental allergic encephalomyelitis. Garcion E, et al. **Brain Res Mol Brain Res** 1997 May;45(2):255-67

1,25-Dihydroxyvitamin D3 regulates the expression of the low-affinity neurotrophin receptor. Naveilhan P, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):259-68

Demonstration of a second pharmacologically active promoter region in the NGF gene that induces transcription at exon 3. Racke MM, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):192-9

Comparative effects of 1,25(OH)2D3 and EB1089 on cell cycle kinetics and apoptosis in MCF-7 breast cancer cells. Simboli-Campbell M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):31-41

c-fms mRNA is regulated posttranscriptionally by 1,25(OH)2D3 in HL-60 cells. Biskobing DM, et al. **Calcif Tissue Int** 1997 Sep;61(3):205-9

Vitamin K2 promotes 1alpha,25(OH)2 vitamin D3-induced mineralization in human periosteal osteoblasts. Koshihara Y, et al. **Calcif Tissue Int** 1996 Dec;59(6):466-73

Parathyroid hormone, prostaglandin E2, and 1,25-dihydroxyvitamin D3 decrease the level of Na+-Ca2+ exchange protein in osteoblastic cells. Krieger NS. **Calcif Tissue Int** 1997 May;60(5):473-8

Ascorbate increases the 1,25 dihydroxyvitamin D3-induced monocytic differentiation of HL-60 cells. Quesada JM, et al. **Calcif Tissue Int** 1996 Oct;59(4):277-82

Regulation of murine osteoblast macrophage colony-stimulating factor production by 1,25(OH)2D3. Rubin J, et al. **Calcif Tissue Int** 1996 Oct;59(4):291-6

Effect of 1,25(OH)2 vitamin D3 on circulating insulin-like growth factor-I and beta 2 microglobulin in patients with osteoporosis. Zofková I, et al. **Calcif Tissue Int** 1997 Mar; 60(3):236-9

1 alpha,25-Dihydroxyvitamin D (calcitriol) inhibits the invasiveness of human prostate cancer cells. Schwartz GG, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep; 6(9):727-32

1alpha,25-dihydroxyvitamin D3 activates T cells of tumor bearers through protein phosphatase 2A. Wiers KM, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):97-102

Potentiation of cisplatin antitumor activity using a vitamin D analogue in a murine squamous cell carcinoma model system. Light BW, et al. **Cancer Res** 1997 Sep 1; 57(17):3759-64

Growth inhibition of human breast cancer cells by 1,25-dihydroxyvitamin D3 is accompanied by induction of apolipoprotein D expression. López-Boado YS, et al. **Cancer Res** 1997 Sep 15;57(18):4091-7

Transition to tetraploidy in 1,25-dihydroxyvitamin D3-resistant HL60 cells is preceded by reduced growth factor dependence and constitutive up-regulation of Sp1 and AP-1 transcription factors. Studzinski GP, et al. **Cancer Res** 1996 Dec 1;56(23):5513-21

Cyclin-dependent kinase 6 is the principal target of p27/Kip1 regulation of the G1-phase traverse in 1,25-dihydroxyvitamin D3-treated HL60 cells. Wang QM, et al. **Cancer Res** 1997 Jul 15;57(14):2851-5

The role of vitamin D in normal prostate growth and differentiation. Konety BR, et al. **Cell Growth Differ** 1996 Nov;7(11):1563-70

Age-associated decrease in inositol 1,4,5-trisphosphate and diacylglycerol generation by 1,25(OH)2-vitamin D3 in rat intestine. de Boland AR, et al. **Cell Signal** 1996 Mar; 8(3):153-7

Inhibition of tumor invasiveness by 1alpha,25-dihydroxyvitamin D3 coupled to a decline in protein kinase A activity and an increase in cytoskeletal organization. Young MR, et al. **Clin Exp Metastasis** 1997 Mar;15(2):102-10

The steroid vitamin D3 reduces cell proliferation in human duodenal epithelium. Thomas MG, et al. **Clin Sci (Colch)** 1997 Apr;92(4):375-7

Adhesion of human myelomonocytic (HL-60) cells induced by 1,25-dihydroxyvitamin D3 and phorbol myristate acetate is dependent on osteopontin synthesis and the alpha v beta 3 integrin. Andersson G, et al. **Connect Tissue Res** 1996;35(1-4):163-71

Regulation of bone sialoprotein and osteopontin mRNA expression by dexamethasone and 1,25-dihydroxyvitamin D3 in rat bone organ cultures. Chen J, et al. **Connect Tissue Res** 1996;34(1):41-51

Vitamin D regulation of metalloproteinase activity in matrix vesicles. Dean DD, et al. **Connect Tissue Res** 1996; 35(1-4):331-6

Differential effects of transforming growth factor beta2, dexamethasone and 1,25-dihydroxyvitamin D on human bone marrow stromal cells. Fromigué O, et al. **Cytokine** 1997 Aug;9(8):613-23

Effect of 1,25-dihydroxycholecalciferol on glucose metabolism in gestational diabetes mellitus. Rudnicki PM, et al. **Diabetologia** 1997 Jan;40(1):40-4

Tissue-specific expression and regulation by 1,25(OH)2D3 of chick protein kinase inhibitor (PKI) mRNA. Marchetto GS, et al. **Endocrine** 1997 Feb;6(1):5-10

Mouse vitamin D-24-hydroxylase: molecular cloning, tissue distribution, and transcriptional regulation by 1alpha,25-dihydroxyvitamin D3. Akeno N, et al. **Endocrinology** 1997 Jun;138(6):2233-40

1,25-dihydroxyvitamin D3 and 9-cis-retinoic acid act synergistically to inhibit the growth of LNCaP prostate cells and cause accumulation of cells in G1. Blutt SE, et al. **Endocrinology** 1997 Apr;138(4):1491-7

Establishment and hormonal regulation of a conditionally transformed preosteocytic cell line from adult human bone. Bodine PV, et al. **Endocrinology** 1996 Nov; 137(11):4592-604

Variable hormone responsiveness of osteoblast populations isolated at different stages of embryogenesis and its relationship to the osteogenic lineage. Gerstenfeld LC, et al. **Endocrinology** 1996 Sep;137(9):3957-68

1,25-dihydroxyvitamin D3 stimulates the assembly of adherens junctions in keratinocytes: involvement of protein kinase C. Gniadecki R, et al. **Endocrinology** 1997 Jun; 138(6):2241-8

1,25-dihydroxyvitamin D3 regulates estrogen metabolism in cultured keratinocytes. Hughes SV, et al. **Endocrinology** 1997 Sep;138(9):3711-8

Calcitriol down-modulates the 3,5,3' triiodothyronine (T3) receptors and affects, in a biphasic manner, the T3-dependent adipose differentiation of Ob 17 preadipocytes. Lenoir C, et al. **Endocrinology** 1996 Oct; 137(10):4268-76

Species-specific glucocorticoid and 1,25-dihydroxyvitamin D responsiveness in mouse MC3T3-E1 osteoblasts: dexamethasone inhibits osteoblast differentiation and vitamin D down-regulates osteocalcin gene expression. Lian JB, et al. **Endocrinology** 1997 May;138(5):2117-27

1,25-dihydroxyvitamin D3 induction of nerve growth factor in L929 mouse fibroblasts: effect of vitamin D receptor regulation and potency of vitamin D3 analogs. Musiol IM, et al. **Endocrinology** 1997 Jan;138(1):12-8

1,25-Dihydroxyvitamin D3-regulated binding of nuclear proteins to a c-myc intron element. Pan Q, et al. **Endocrinology** 1996 Oct;137(10):4154-60

In vivo regulation of chromogranin A messenger ribonucleic acid in the parathyroid by 1,25-dihydroxyvitamin D: studies in normal rats and in chronic renal insufficiency. Soliman E, et al. **Endocrinology** 1997 Jun;138(6):2596-600

Anabolic effects of 1,25-dihydroxyvitamin D3 on osteoblasts are enhanced by vascular endothelial growth factor produced by osteoblasts and by growth factors produced by endothelial cells. Wang DS, et al. **Endocrinology** 1997 Jul;138(7):2953-62

1alpha,25-dihydroxyvitamin D3 actions in LNCaP human prostate cancer cells are androgen-dependent. Zhao XY, et al. **Endocrinology** 1997 Aug;138(8):3290-8

Inhibition of insulin- and insulin-like growth factor-I-stimulated growth of human breast cancer cells by 1,25-dihydroxyvitamin D3 and the vitamin D3 analogue EB1089. Vink-van Wijngaarden T, et al. **Eur J Cancer** 1996 May;32A(5):842-8

Osteocalcin production in vivo and in vitro after 1,25-dihydroxycholecalciferol stimulation comparison of different assays. Villa I, et al. **Eur J Clin Chem Clin Biochem** 1996 Sep;34(9):771-5

No effect of calcitriol on insulin-mediated glucose uptake in healthy subjects. Fliser D, et al. **Eur J Clin Invest** 1997 Jul;27(7):629-33

Effects of calcitriol on eosinophil activity and antibody responses in patients with schistosomiasis. Snyman JR, et al. **Eur J Clin Pharmacol** 1997;52(4):277-80

Antiapoptotic action of 1,25-dihydroxyvitamin D3 is associated with increased mitochondrial MCL-1 and RAF-1 proteins and reduced release of cytochrome c. Wang X, et al. **Exp Cell Res** 1997 Aug 25;235(1):210-7

Insulin markedly potentiates the capacity of parathyroid hormone to increase expression of 25-hydroxyvitamin D3-24-hydroxylase in rat osteoblastic cells in the presence of 1,25-dihydroxyvitamin D3. Armbrecht HJ, et al. **FEBS Lett** 1996 Sep 9;393(1):77-80

Osteotropic factor-stimulated synthesis of thrombospondin in rat dental pulp cells. Islam MR, et al. **FEBS Lett** 1996 Sep 16;393(2-3):193-6

Stimulatory effects of parathyroid hormone and 1,25-dihydroxyvitamin D3 on insulin-like growth factor-binding protein-5 mRNA expression in osteoblastic UMR-106 cells: the difference between transient and continuous treatments. Nasu M, et al. **FEBS Lett** 1997 Jun 2;409(1):63-6

Vitamin D3 elicits calcium response and activates blood monocyte-derived macrophages from patients with vitamin D dependent rickets type II. Takeda E, et al. **FEBS Lett** 1996 Nov 4;396(2-3):157-60

Ion microscopic imaging of calcium during 1,25-dihydroxyvitamin D-mediated intestinal absorption. Fullmer CS, et al. **Histochem Cell Biol** 1996 Aug; 106(2):215-22

Effects of 1 alpha,25-dihydroxyvitamin D3 and cytokines on the expression of MHC antigens, complement receptors and other antigens on human blood monocytes and U937 cells: role in cell differentiation, activation and phagocytosis. Spittler A, et al. **Immunology** 1997 Feb; 90(2):286-93

1,25-dihydroxyvitamin D3 and agents that increase intracellular adenosine 3',5'-monophosphate synergistically inhibit fibroblast proliferation. Saati N, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):310-4

1,25-(OH)2-vitamin D3 and calcipotriol induce IL-10 receptor gene expression in human epidermal cells. Michel G, et al. **Inflamm Res** 1997 Jan;46(1):32-4

Rodent osteoblast-like cells support osteoclastic differentiation of human cord blood monocytes in the presence of M-CSF and 1,25 dihydroxyvitamin D3. Quinn JM, et al. **Int J Biochem Cell Biol** 1997 Jan;29(1):173-9

Induction of apoptosis in androgen-independent mouse mammary cell line by 1, 25-dihydroxyvitamin D3. Furuya Y, et al. **Int J Cancer** 1996 Sep 27;68(1):143-8

9-cis retinoic acid antagonizes the stimulatory effect of 1,25 dihydroxyvitamin D3 on chondrogenesis of chick limb bud mesenchymal cells: interactions of their receptors. Tsonis PA, et al. **Int J Dev Biol** 1996 Oct;40(5):1053-9

1alpha,25-dihydroxyvitamin D3 induces sphingomyelin hydrolysis in HaCaT cells via tumor necrosis factor alpha. Geilen CC, et al. **J Biol Chem** 1997 Apr 4; 272(14):8997-9001

Phospholipase C beta and membrane action of calcitriol and estradiol. Le Mellay V, et al. **J Biol Chem** 1997 May 2; 272(18):11902-7

Stimulation by 1alpha,25(OH)2-vitamin D3 of whole cell chloride currents in osteoblastic ROS 17/2.8 cells. A structure-function study. Zanello LP, et al. **J Biol Chem** 1997 Sep 5;272(36):22617-22

1,25-dihydroxyvitamin D3 inhibits Osteocalcin expression in mouse through an indirect mechanism. Zhang R, et al.

J Biol Chem 1997 Jan 3;272(1):110–6

1 alpha,25–dihydroxyvitamin D3 inhibits cell growth and chondrogenesis of a clonal mouse EC cell line, ATDC5. Akiyama H, et al. **J Bone Miner Res** 1996 Jan;11(1):22–8

Ectopic secretion of osteocalcin, the major non–collagenous bone protein, by the myeloma cell line NCI–H929. Barille S, et al. **J Bone Miner Res** 1996 Apr;11(4):466–71

Microgravity reduces the differentiation of human osteoblastic MG–63 cells. Carmeliet G, et al. **J Bone Miner Res** 1997 May;12(5):786–94

Increased bone formation and osteoblastic cell phenotype in premature cranial suture ossification (craniosynostosis). De Pollack C, et al. **J Bone Miner Res** 1996 Mar;11(3):401–7

Characteristics of NaF–induced differentiation of HL–60 cells. Kawase T, et al. **J Bone Miner Res** 1996 Nov; 11(11):1676–87

Vitamin K2 enhances osteocalcin accumulation in the extracellular matrix of human osteoblasts in vitro. Koshihara Y, et al. **J Bone Miner Res** 1997 Mar;12(3):431–8

Bone resorption and response to calcium–regulating hormones in the absence of tissue or urokinase plasminogen activator or of their type 1 inhibitor. Leloup G, et al. **J Bone Miner Res** 1996 Aug;11(8):1146–57

1,25–dihydroxyvitamin D3–mediated transforming growth factor–beta release is impaired in cultured osteoblasts from patients with multiple pituitary hormone deficiencies. Sterck JG, et al. **J Bone Miner Res** 1996 Mar;11(3):367–76

Increase of vascular endothelial growth factor mRNA expression by 1,25–dihydroxyvitamin D3 in human osteoblast–like cells. Wang DS, et al. **J Bone Miner Res** 1996 Apr;11(4):472–9

Alteration of the kinetics of type I procollagen synthesis in human osteosarcoma cells by 1,25–dihydroxyvitamin D3. Kojima T, et al. **J Cell Biochem** 1997 Jun 15;65(4):542–9

Identification of a vitamin D3 response element in the fibronectin gene that is bound by a vitamin D3 receptor homodimer [published erratum appears in J Cell Biochem 1996 Jul;62(1):142] Polly P, et al. **J Cell Biochem** 1996 Mar 1;60(3):322–33

Effects of the vitamin D3 analog 1 alpha, 25–dihydroxyvitamin D3–3 beta–bromoacetate on rat osteosarcoma cells: comparison with 1 alpha, 25–dihydroxyvitamin D3. Van Auken M, et al. **J Cell Biochem** 1996 Dec 1;63(3):302–10

Structural analysis and characterization of tissue and hormonal responsive expression of the avian bone sialoprotein (BSP) gene. Yang R, et al. **J Cell Biochem** 1997 Jan;64(1):77–93

1,25–Dihydroxyvitamin D3 selectively induces increased expression of the Na,K–ATPase beta 1 subunit in avian myelomonocytic cells without a concomitant change in Na,K–ATPase activity. Billecocq A, et al. **J Cell Physiol** 1997 Aug;172(2):221–9

Up–regulation of Ca2+ influx mediated by store–operated channels in HL60 cells induced to differentiate by 1 alpha,25–dihydroxyvitamin D3. Gardner JP, et al. **J Cell Physiol** 1997 Sep;172(3):284–95

1,25 dihydroxyvitamin D3 stimulates phospholipase C–gamma in rat colonocytes: role of c–Src in PLC–gamma activation. Khare S, et al. **J Clin Invest** 1997 Apr 15; 99(8):1831–41

1,25–Dihydroxyvitamin D3 and a new analogue, 22–oxacalcitriol, modulate proliferation and interleukin–8 secretion of normal human keratinocytes. Koizumi H, et al. **J Dermatol Sci** 1997 Sep;15(3):207–13

1,25–Dihydroxyvitamin D3 increased beta–adrenergic adenylate cyclase response of fetal rat keratinizing epidermal cells (FRSK cells). Takahashi H, et al. **J Dermatol Sci** 1996 Feb;11(2):121–8

Induction of 24–hydroxylase cytochrome P450 mRNA by 1,25–dihydroxyvitamin D and phorbol esters in normal rat kidney (NRK–52E) cells. Armbrecht HJ, et al. **J Endocrinol** 1997 May;153(2):199–205

Stimulation of creatine kinase specific activity in human osteoblast and endometrial cells by estrogens and anti–estrogens and its modulation by calciotropic hormones. Fournier B, et al. **J Endocrinol** 1996 Aug; 150(2):275–85

Protein kinase C dependent induction of pp125FAK in monocytes by colony stimulating factor–GM: evidence for a synergistic effect by the cytokine and 1,25 dihydroxyvitamin D3. Kanan RM, et al. **J Endocrinol** 1997 Feb;152(2):R19–22

Requirements for induction of vitamin D–mediated gene regulation in normal human B lymphocytes. Morgan JW, et al. **J Immunol** 1996 Oct 1;157(7):2900–8

1alpha,25–Dihydroxyvitamin D3 modulates CD38 expression on human lymphocytes. Stoeckler JD, et al. **J Immunol** 1996 Dec 1;157(11):4908–17

Effects of interferon–alpha, beta, and gamma on the function of differentiated leukemic HL–60 cells induced by 1,25–dihydroxyvitamin D3. Watanabe M, et al. **J Interferon Cytokine Res** 1996 May;16(5):347–56

1,25–dihydroxyvitamin D3, transforming growth factor beta1, calcium, and ultraviolet B radiation induce apoptosis in cultured human keratinocytes. Benassi L, et al. **J Invest Dermatol** 1997 Sep;109(3):276–82

Activation of Raf–mitogen–activated protein kinase signaling pathway by 1,25–dihydroxyvitamin D3 in normal human keratinocytes. Gniadecki R. **J Invest Dermatol** 1996 Jun; 106(6):1212–7

1alpha,25–dihydroxyvitamin D3 rapidly inhibits fibroblast–induced collagen gel contraction. Greiling D, et al. **J Invest Dermatol** 1996 Jun;106(6):1236–41

Retinoic acid modulates the anti–proliferative effect of 1,25–dihydroxyvitamin D3 in cultured human epidermal keratinocytes. Segaert S, et al. **J Invest Dermatol** 1997 Jul; 109(1):46–54

Prevention of preneoplastic mammary lesion development by a novel vitamin D analogue, 1alpha–hydroxyvitamin D5 [see comments] Mehta RG, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):212–8. Comment in: J Natl Cancer Inst 1997 Feb 5;89(3):182–5.

Antiproliferative action of vitamin D–related compounds and insulin–like growth factor–binding protein 5 accumulation. Rozen F, et al. **J Natl Cancer Inst** 1997 May 7;89(9):652–6

Effect of calcitriol in combination with corticosterone, interleukin–1beta, and transforming growth factor–beta1 on nerve growth factor secretion in an astroglial cell line. Hahn M, et al. **J Neurochem** 1997 Jul;69(1):102–9

1,25 Dihydroxyvitamin D3 exerts regional effects in the central nervous system during experimental allergic encephalomyelitis. Nataf S, et al. **J Neuropathol Exp Neurol** 1996 Aug;55(8):904–14

1,25–Dihydroxyvitamin D3 induces programmed cell death in a rat glioma cell line. Baudet C, et al. **J Neurosci Res** 1996 Dec 1;46(5):540–50

Differential expression of M–CSF, LIF, and TNF–alpha genes in normal and malignant rat glial cells: regulation by lipopolysaccharide and vitamin D. Furman I, et al. **J Neurosci Res** 1996 Nov 1;46(3):360–6

Vitamin D receptor in endometrial carcinoma and the differentiation–inducing effect of 1,25–dihydroxyvitamin D3 on endometrial carcinoma cell lines. Yabushita H, et al. **J Obstet Gynaecol Res** 1996 Dec;22(6):529–39

Vitamin D receptor expression is required for growth modulation by 1 alpha,25–dihydroxyvitamin D3 in the human prostatic carcinoma cell line ALVA–31. Hedlund TE, et al. **J Steroid Biochem Mol Biol** 1996 Jun; 58(3):277–88

Effects of 1,25 dihydroxyvitamin D3 and its analogues on induction of apoptosis in breast cancer cells. James SY, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):395–401

1,25–Dihydroxyvitamin D3 induces morphological and biochemical markers of apoptosis in MCF–7 breast cancer cells. Simboli–Campbell M, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):367–76

Differentiation induction of HL60 cells by 1,25(OH)2D3, all trans retinoic acid, rTGF–beta2 and their combinations. Verlinden L, et al. **J Steroid Biochem Mol Biol** 1997 Jan; 60(1–2):87–97

Vitamin D receptor and growth inhibition by 1,25–dihydroxyvitamin D3 in human malignant melanoma cell lines. Evans SR, et al. **J Surg Res** 1996 Feb 15; 61(1):127–33

1,25–dihydroxyvitamin D3 and the synthetic vitamin D analogue, KH 1060, modulate the growth of mouse proximal tubular cells. Weinreich T, et al. **Kidney Blood Press Res** 1996;19(6):325–31

1,25–dihydroxyvitamin D3 and 22–oxacalcitriol prevent the decrease in vitamin D receptor content in the parathyroid glands of uremic rats. Denda M, et al. **Kidney Int** 1996 Jul;50(1):34–9

Coordinate regulation of PTH/PTHrP receptors by PTH and calcitriol in UMR 106–01 osteoblast–like cells. González EA, et al. **Kidney Int** 1996 Jul;50(1):63–70

The set point of calcium and the reduction of parathyroid hormone in hemodialysis patients. Pahl M, et al. **Kidney Int** 1996 Jan;49(1):226–31

Ethacrynic acid and 1 alpha,25–dihydroxyvitamin D3 cooperatively inhibit proliferation and induce differentiation of human myeloid leukemia cells. Makishima M, et al. **Leuk Res** 1996 Sep;20(9):781–9

Protein kinase C is not necessary for transforming growth factor beta–induced growth–arrest in leukemia cell lines [see comments] Manzel L, et al. **Leuk Res** 1997 May; 21(5):403–10. Comment in: Leuk Res 1997 May;21(5):411–4.

All–trans and 9–cis retinoic acid enhance 1,25–dihydroxyvitamin D3–induced monocytic differentiation of U937 cells [see comments] Nakajima H, et al. **Leuk Res** 1996 Aug;20(8):665–76. Comment in: Leuk Res 1997 Feb;21(2):173–6.

Reversibility of monocytic differentiation of HL–60 cells by 1alpha,25 dihydroxyvitamin D3. Tomoyasu S, et al. **Leuk Res** 1997 Mar;21(3):217–24

Interaction of vitamin D derivatives and granulocyte–macrophage colony–stimulating factor in leukaemic cell differentiation. James SY, et al. **Leukemia** 1997 Jul;11(7):1017–25

The effect of 1,25(OH)2 vitamin D3 on CD4+/CD8+ subsets of T lymphocytes in postmenopausal women. Zofková I, et al. **Life Sci** 1997;61(2):147–52

Effect of 1,25–dihydroxyvitamin D3 on proliferation in senescent IMR–90 human fibroblasts. Stio M, et al. **Mech Ageing Dev** 1996 Oct 4;91(1):23–36

Influence of age on 1,25(OH)2–vitamin D3 activation of protein kinase C in rat duodenum. Balogh G, et al. **Mol Cell Endocrinol** 1997 May 16;129(2):127–33

1,25–dihydroxyvitamin D3 inhibits proliferation of IMR–90 human fibroblasts and stimulates pyruvate kinase activity in confluent–phase cells. Lunghi B, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):141–8

1,25(OH)2–vitamin D3 stimulation of phospholipases C and D in muscle cells involves extracellular calcium and a pertussis–sensitive G protein. Morelli S, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):207–11

Characterization of a response element in the 5'–flanking region of the avian (chicken) PTH gene that mediates negative regulation of gene transcription by 1,25–dihydroxyvitamin D3 and binds the vitamin D3 receptor. Liu SM, et al. **Mol Endocrinol** 1996 Feb; 10(2):206–15

Vitamin D receptor binding to the negative human parathyroid hormone vitamin D response element does not require the retinoid x receptor. Mackey SL, et al. **Mol Endocrinol** 1996 Mar;10(3):298–305

Vitamin D receptors from patients with resistance to 1,25–dihydroxyvitamin D3: point mutations confer reduced transactivation in response to ligand and impaired interaction with the retinoid X receptor heterodimeric partner. Whitfield GK, et al. **Mol Endocrinol** 1996 Dec; 10(12):1617–31

Analysis of vitamin D analog–induced heterodimerization of vitamin D receptor with retinoid X receptor using the yeast two–hybrid system. Zhao XY, et al. **Mol Endocrinol** 1997 Mar;11(3):366–78

Expression of enzymatically active CYP3A4 by Caco–2 cells grown on extracellular matrix–coated permeable supports in the presence of 1alpha,25–dihydroxyvitamin D3. Schmiedlin–Ren P, et al. **Mol Pharmacol** 1997 May; 51(5):741–54

Comparison of effects of calcitriol and calcium carbonate on secretion of interleukin–1 beta and tumour necrosis factor–alpha by uraemic peripheral blood mononuclear cells. Tsukamoto Y, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 3:15–21

1,25–Dihydroxyvitamin D3, an inducer of glial cell line–derived neurotrophic factor. Naveilhan P, et al. **Neuroreport** 1996 Sep 2;7(13):2171–5

1,25–Dihydroxyvitamin D3 regulates gamma 1 transpeptidase activity in rat brain. Garcion E, et al. **Neurosci Lett** 1996 Oct 4;216(3):183–6

Synergistic effects of curcumin on all–trans retinoic acid– and 1 alpha,25–dihydroxyvitamin D3–induced differentiation in human promyelocytic leukemia HL–60 cells [published erratum appears in Oncol Res 1997;9(2):99] Liu Y, et al. **Oncol Res** 1997;9(1):19–29

Effect of short course of 1,25–dihydroxyvitamin D3 on biochemical markers of bone remodelling in postmenopausal women. Sirtori P, et al. **Pharmacol Res** 1996 Jun;33(6):353–9

Proliferation and differentiation of cultured human keratinocytes is modulated by 1,25(OH)2D3 and synthetic vitamin D3 analogues in a cell density–, calcium– and serum–dependent manner. Svendsen ML, et al. **Pharmacol Toxicol** 1997 Jan;80(1):49–56

Dietary 1,25–dihydroxycholecalciferol has variable effects on the incidences of leg abnormalities, plasma vitamin D metabolites, and vitamin D receptors in chickens divergently selected for tibial dyschondroplasia. Mitchell RD, et al. **Poult Sci** 1997 Feb;76(2):338–45

Long–term exposure of HL60 cells to 1,25–dihydroxyvitamin D3 reduces their tumorigenicity: a model for cancer chemoprevention. Wang X, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):399–404

Differential effects of 1,25–(OH)2D3 on acyl hydrolase and cyclooxygenase activities in interleukin 1 beta–stimulated human synovial fibroblast cultures. Meyer FA, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):191–4

Decrease in CGRP and CT levels either contained in or released by CA–77 C cells after combined treatments with 1,25–dihydroxyvitamin D3 analogues and 9–cis retinoic acid. Lamari Y, et al. **Reprod Nutr Dev** 1997;37(1):3–12

Effects of vitamin D3 on keratinocyte proliferation and differentiation in vitro: modulation by ligands for retinoic acid and retinoid X receptors. Sørensen S, et al. **Skin Pharmacol** 1997;10(3):144–52

Low extracellular calcium enhances beta cell sensitivity to the stimulatory influence of 1,25–dihydroxyvitamin D3 on insulin release by islets from vitamin D3–deficient rats. Faure–Dussert AG, et al. **Steroids** 1997 Jul;62(7):554–62

1,25–Dihydroxyvitamin D3 reduces MHC antigen expression on pancreatic beta–cells in vitro. Hahn HJ, et al. **Transplant Proc** 1997 Jun;29(4):2156–7

Effects of 1,25–dihydroxyvitamin D3 on tumor cell invasion to the extracellular matrix in human fibrosarcoma HT1080 cells and its correlation with laminin. Yudoh K, et al. **Tumour Biol** 1997;18(2):69–79

1,25–Dihydroxyvitamin D3 inhibits secretion of interferon–gamma by mitogen– and antigen–stimulated bovine mononuclear leukocytes. Ametaj BN, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1–2):77–90

[The effect of vitamin D on the humoral and cellular immune response and functional activity of peritoneal macrophages] Pletsityĭ KD, et al. **Biull Eksp Biol Med** 1997 Jan; 123(1):63–5 **(Rus)**

[Mechanism of immunomodulating effect of vitamin D: possible involvement of lipid peroxidation system] Pletsitnyĭ KD, et al. **Dokl Akad Nauk** 1996 Sep; 350(2):275–7 **(Rus)**

[Interrelationship between pro–oxidant and immunomodulating properties of vitamin D] Pletsityĭ KD, et al. **Vopr Pitan** 1996;(4):11–3 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Functional characterization of a novel type of 1 alpha,25-dihydroxyvitamin D3 response element identified in the mouse c-fos promoter. Schräder M, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):646-51

Age and gender effects on 1,25-dihydroxyvitamin D3-regulated gene expression. Johnson JA, et al. **Exp Gerontol** 1995 Nov-Dec;30(6):631-43

Down-regulation of L-type Ca2+ channel transcript levels by 1,25-dihyroxyvitamin D3. Osteoblastic cells express L-type alpha1C Ca2+ channel isoforms. Meszaros JG, et al. **J Biol Chem** 1996 Dec 20;271(51):32981-5

Functional assessment of two vitamin D-responsive elements in the rat 25-hydroxyvitamin D3 24-hydroxylase gene. Ohyama Y, et al. **J Biol Chem** 1996 Nov 29;271(48):30381-5

High phosphorus diet increases preproPTH mRNA independent of calcium and calcitriol in normal rats. Hernández A, et al. **Kidney Int** 1996 Dec;50(6):1872-8

THERAPEUTIC USE

A randomized double-blind comparison of the effects on systemic calcium homeostasis of topical calcitriol (3 micrograms/g) and calcipotriol (50 micrograms/g) in the treatment of chronic plaque psoriasis vulgaris. Bourke JF, et al. **Acta Derm Venereol** 1997 May;77(3):228-30

Long-term effects of intravenous calcitriol therapy on the control of secondary hyperparathyroidism. Malberti F, et al. **Am J Kidney Dis** 1996 Nov;28(5):704-12

Long-term effect of intravenous calcitriol on the treatment of severe hyperparathyroidism, parathyroid gland mass and bone mineral density in haemodialysis patients. Huraib S, et al. **Am J Nephrol** 1997;17(2):118-23

High frequency of marked hyperphosphatemia during intravenous calcitriol therapy in hemodialysis patients with refractory hyperparathyroidism. Descombes E, et al. **Blood Purif** 1996;14(3):234-41

Effectiveness of dietary 25- and 1-hydroxycholecalciferol in combating tibial dyschondroplasia in broiler chickens. Rennie JS, et al. **Br Poult Sci** 1996 May;37(2):413-21

Rationale for active vitamin D analog therapy in senile osteoporosis. Akesson K, et al. **Calcif Tissue Int** 1997 Jan; 60(1):100-5 (40 ref.)

Comparison of calcitriol treatment with etidronate-calcitriol and calcitonin-calcitriol combinations in Turkish women with postmenopausal osteoporosis: a prospective study. Gürlek A, et al. **Calcif Tissue Int** 1997 Jul;61(1):39-43

The response to calcitriol therapy in postmenopausal osteoporotic women is a function of initial calcium absorptive status. Need AG, et al. **Calcif Tissue Int** 1997 Jul;61(1):6-9

Topical calcitriol enhances normal hair regrowth but does not prevent chemotherapy-induced alopecia in mice. Paus R, et al. **Cancer Res** 1996 Oct 1;56(19):4438-43

The effect of oral 1 alpha-hydroxycalciferol treatment on bone mineral density in hemodialysis patients. Morita A, et al. **Clin Nephrol** 1996 Dec;46(6):389-93

The effect of a modified etidronate cyclical regimen on postmenopausal osteoporosis: a four-year study. Lyritis GP, et al. **Clin Rheumatol** 1997 Jun;16(4):354-60

US imaging and color Doppler in patients undergoing inhibitory therapy with calcitriol for secondary hyperparathyroidism. Pretolesi F, et al. **Eur Radiol** 1997; 7(5):721-5

1.25(OH)2 cholecalciferol pulse therapy and the effects of different dialysis membranes on serum PTH levels of haemodialysis patients. Boran M, et al. **Int Urol Nephrol** 1997;29(2):251-8

The effect of calcitriol on renal anaemia in patients undergoing long-term dialysis. Nazem AK, et al. **Int Urol Nephrol** 1997;29(1):119-27

Selective modulation by vitamin D of renal response to parathyroid hormone: a study in calcitriol-resistant rickets. Even L, et al. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2836-40

Modulation of epidermal differentiation, tissue inflammation, and T-lymphocyte infilitration in psoriatic plaques by topical calcitriol. Lu I, et al. **J Cutan Pathol** 1996 Oct; 23(5):419-30

Skeletal response to intermittent calcitriol therapy in secondary hyperparathyroidism. Salusky IB, et al. **Kidney Int Suppl** 1996 Jan;53:S135-9 (45 ref.)

Changes of bone markers during long-term intravenous calcitriol therapy in maintenance dialysis patients. Lee SH, et al. **Miner Electrolyte Metab** 1996;22(4):219-23

Intravenous calcitriol therapy restores reduced antigen-induced T-lymphocyte response in 1,25-(OH)2D3-deficient hemodialysis patients. Antonen J, et al. **Nephron** 1996;74(4):680-6

Evolution of anemia of chronic renal failure after the treatment of hyperparathyroidism [letter] Garcia-Canton C, et al. **Nephron** 1996;74(2):444-5

Clinical evaluation of bone metabolism after renal transplantation to support the theory to perform 1,25(OH)2D3 pulse therapy before transplantation [letter] Hyodo T, et al. **Nephron** 1996;73(4):723

Effects of parathyroid hormone and 1,25(OH2)D3 on protein glycation in moderate uraemia. Lamb EJ, et al. **Nephron** 1996;74(2):295-300

Calcitriol may directly suppress bone turnover [letter; comment] Ureña P, et al. **Nephron** 1997;75(1):116-7. Comment on: Nephron 1995;71(2):218-23.

Vitamin D3 and chemotherapy-induced alopecia [editorial] Jimenez JJ, et al. **Nutrition** 1996 Jun;12(6):448-9

Calcitriol in the management of secondary hyperparathyroidism of renal failure. Daisley-Kydd RE, et al. **Pharmacotherapy** 1996 Jul-Aug;16(4):619-30 (64 ref.)

Effect of 1,25-dihydroxycholecalciferol, cholecalciferol, and fluorescent lights on the development of tibial dyschondroplasia and rickets in broiler chickens. Elliot MA, et al. **Poult Sci** 1997 Apr;76(4):570-80

1,25-Dihydroxyvitamin D3 reversibly blocks the progression of relapsing encephalomyelitis, a model of multiple sclerosis. Cantorna MT, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7861-4

Prevention of type I diabetes by late intervention with nonhypercalcemic analogues of vitamin D3 in combination with cyclosporin A. Casteels K, et al. **Transplant Proc** 1996 Dec;28(6):3095

MC1288, a vitamin D analogue, reduces short- and long-term renal allograft rejection in the rat. Kallio E, et al. **Transplant Proc** 1996 Dec;28(6):3113

Efficiency of preventive treatment of glucocorticoid-induced osteoporosis with 25-hydroxyvitamin D3 and calcium in kidney transplant patients. Tałałaj M, et al. **Transplant Proc** 1996 Dec;28(6):3485-7

Benefits of calcitriol therapy and serum phosphorus control in dogs and cats with chronic renal failure. Both are essential to prevent of suppress toxic hyperparathyroidism. Nagode LA, et al. **Vet Clin North Am Small Anim Pract** 1996 Nov; 26(6):1293-330 (236 ref.)

[Combined therapy with calcitonin and high doses of active vitamin D3 metabolites in uremic hyperparathyroidism] Matuszkiewicz-Rowińska J, et al. **Pol Arch Med Wewn** 1996 Jul;96(1):23-31 (Eng. Abstr.) **(Pol)**

TOXICITY

Topical D-vitamins: multiparametric comparison of the irritant potential of calcipotriol, tacalcitol and calcitriol in a hairless guinea pig model. Fullerton A, et al. **Contact Dermatitis** 1997 Apr;36(4):184-90

1 alpha, 25-dihydroxyvitamin D3 (calcitriol) induces apoptosis in stimulated T cells through an IL-2 dependent mechanism. Pintado CO, et al. **Cytokine** 1996 May; 8(5):342-5

Abnormal modulation of serum osteocalcin by dietary phosphate and 1,25-dihydroxyvitamin D3 in the hypophosphatemic mouse. Tsuji H, et al. **J Bone Miner Res** 1996 Sep;11(9):1234-40

CALCITRIOL RECEPTORS see **RECEPTORS, CALCITRIOL**

CALCIUM

see related
HYPERCALCEMIA
HYPOCALCEMIA

Polyethylene glycol-induced calcium appetite. Tordoff MG. **Am J Physiol** 1997 Aug;273(2 Pt 2):R587-96

Influence of alpha-tocopherol incorporation on Ca(2+)-induced fusion of phosphatidylserine vesicles. Aranda FJ, et al. **Arch Biochem Biophys** 1996 Sep 15; 333(2):394-400

Role of calcium in maintaining the heme environment of manganese peroxidase. Sutherland GR, et al. **Biochemistry** 1997 Mar 25;36(12):3654-62

The expression of calretinin in transfected PC12 cells provides no protection against Ca(2+)-overload or trophic factor deprivation. Kuźnicki J, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):194-200

Promotion of calcification on carboxymethylchitin discs. Wan AC, et al. **Biomaterials** 1996 Aug;17(15):1529-34

The structure of divalent cation-induced aggregates of PIP2 and their alteration by gelsolin and tau. Flanagan LA, et al. **Biophys J** 1997 Sep;73(3):1440-7

Molecular dynamics simulations of six different fully hydrated monomeric conformers of Escherichia coli re-lipopolysaccharide in the presence and absence of Ca2+. Obst S, et al. **Biophys J** 1997 Mar;72(3):1031-46

Calcium, calcium antagonists and experimental atherosclerosis. Paoletti R, et al. **Blood Press Suppl** 1996; 4:12-5 (35 ref.)

Spontaneous transients of [Ca2+]i depend on external calcium and the activation of L-type voltage-gated calcium channels in a clonal pituitary cell line (AtT-20) of cultured mouse corticotropes. Fiekers JF, et al. **Cell Calcium** 1996 Apr;19(4):327-36

Some commonly overlooked properties of calcium buffer systems: a simple method for detecting and correcting stoichiometric imbalance in CaEGTA stock solutions. Klabusay M, et al. **Cell Calcium** 1996 Sep;20(3):227-34 (14 ref.)

Laser scanning microscopy and calcium imaging. Schild D. **Cell Calcium** 1996 Apr;19(4):281-96 (80 ref.)

Fluorescent analysis in polarized MDCK cell monolayers: intracellular pH and calcium interactions after apical and basolateral stimulation with arginine vasopressin. Vamos S, et al. **Cell Calcium** 1996 Apr;19(4):307-14

Activation of a Ca(2+)-dependent protein kinase in response in heat shock in the myxoamoebae of a true slime mold, Physarum polycephalum. Maruya M, et al. **Cell Struct Funct** 1996 Dec;21(6):533-8

Effect of Cu(2+)-ions on semiconductor properties of synthetic DOPA melanin polymer. Jastrzebska MM, et al. **J Biomater Sci Polym Ed** 1996;7(9):781-93

Surface modifications of titanium in calcium-ion-containing solutions. Hanawa T, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):273-8

Early bone formation around calcium-ion-implanted titanium inserted into rat tibia. Hanawa T, et al. **J Biomed Mater Res** 1997 Jul;36(1):131-6

Effects of magnesium on the formation of calcium-deficient hydroxyapatite from CaHPO4.2H2O and Ca4(PO4)2O. TenHuisen KS, et al. **J Biomed Mater Res** 1997 Sep 5; 36(3):306-14

Variations in solution chemistry during calcium-deficient and stoichiometric hydroxyapatite formation from CaHPO4.2H2O and Ca4(PO4)2O. TenHuisen KS, et al. **J Biomed Mater Res** 1997 Aug;36(2):233-41

Effects of Bay K 8644 on L-type calcium current from newborn rat cardiomyocytes in primary culture. Gomez JP, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2217-29

Relations between nasopharyngeal carcinoma and magnesium and other alkaline earth elements in soils in China. Bøliviken B, et al. **Med Hypotheses** 1997 Jan;48(1):21-5

Contribution of the sodium-calcium exchanger to contractions in immature rabbit ventricular myocytes. Chin TK, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):480-5

Reliability of a modified tissue factor-dependent factor V assay for activated protein C resistant factor Va using a calcium-containing thromboplastin. Le DT, et al. **Thromb Haemost** 1997 Mar;77(3):481-5

[Urinary calcium excretion. (Normal values for urinary calcium/creatinine ratio in Hungary). Multicenter study] Lakatos P, et al. **Orv Hetil** 1997 Jun 1;138(22):1405-9 (Eng. Abstr.) **(Hun)**

ADMINISTRATION & DOSAGE

Bone mineral acquisition in low calcium intake children following the withdrawal of calcium supplement. Lee WT, et al. **Acta Paediatr** 1997 Jun;86(6):570-6

Low calcium (1.25 mmol/L) dialysate can normalize relative hypoparathyroidism in CAPD patients with low bone turnover. Shigematsu T, et al. **Adv Perit Dial** 1996;12:250-6

Effect of dietary calcium on urinary oxalate excretion after oxalate loads. Liebman M, et al. **Am J Clin Nutr** 1997 May; 65(5):1453-9

Zinc balance in adolescent females consuming a low- or high-calcium diet. McKenna AA, et al. **Am J Clin Nutr** 1997 May;65(5):1460-4

Magnesium kinetics in adolescent girls determined using stable isotopes: effects of high and low calcium intake. Sojka J, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R710-5

Low-calcium dialysis in calciphylaxis [letter] Lipsker D, et al. **Arch Dermatol** 1997 Jun;133(6):798-9

The effect of long-term calcium supplementation on indices of iron, zinc and magnesium status in lactating Gambian women. Yan L, et al. **Br J Nutr** 1996 Dec;76(6):821-31

Oral calcium transiently increases calbindin9k gene expression in adult rat duodena. Lemay J, et al. **Calcif Tissue Int** 1997 Jan;60(1):43-7

Calcium supplementation for the nation [letter; comment] Bobechko WP. **Can Med Assoc J** 1997 May 1;156(9):1269 . Comment on: Can Med Assoc J 1996 Oct 1;155(7):935-9.

Iatrogenic hypercalcemia in hemodialysis patients in spite of the use of low dialysate calcium [letter] Goicoechea M, et al. **Clin Nephrol** 1997 Jul;48(1):67-8

Effects of mineral composition of drinking water on risk for stone formation and bone metabolism in idiopathic calcium nephrolithiasis. Marangella M, et al. **Clin Sci (Colch)** 1996 Sep;91(3):313-8

The effect of 6'-galactooligosaccharides on bone mineralization of rats adapted to different levels of dietary calcium. Chonan O, et al. **Int J Vitam Nutr Res** 1996; 66(3):244-9

Increased parenteral nutrition calcium and phosphorus for very-low-birth-weight infants using computer software assisted ordering. Porcelli PJ, et al. **J Am Coll Nutr** 1997 Jun;16(3):283-7

Bone mineral density in children and adolescents: relation to puberty, calcium intake, and physical activity. Boot AM, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):57-62

The pathogenesis of age-related osteoporotic fracture: effects of dietary calcium deprivation. Prince RL, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):260-4

Effects of the addition of potassium or sodium, but not calcium, to prepartum ratios on milk fever in dairy cows. Goff JP, et al. **J Dairy Sci** 1997 Jan;80(1):176-86

Effect of an oral calcium load on urinary markers of collagen breakdown. Rubinacci A, et al. **J Endocrinol Invest** 1996 Dec;19(11):719-26

Effects of calcium gluconate on the utilization of magnesium and the nephrocalcinosis in rats fed excess dietary phosphorus and calcium. Chonan O, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Aug;42(4):313-23

Insufficient calcium and iron intakes among general female population in Japan, with special reference to inter-regional differences. Shimbo S, et al. **J Trace Elem Med Biol** 1996 Sep;10(3):133-8

Low or high calcium dialysate solutions in peritoneal dialysis? Weinreich T. **Kidney Int Suppl** 1996 Nov;56:S92-6 (42 ref.)

Effects of hormone deficiency, androgen therapy and calcium supplementation on bone mineral density in female transsexuals. Goh HH, et al. **Maturitas** 1997 Jan;26(1):45-52

Calcium supplements. **Med Lett Drugs Ther** 1996 Dec 6; 38(989):108–9

High-normal calcium (1.35 mmol/l) dialysate in patients on CAPD: efficient and safe long-term control of plasma calcium, phosphate, and parathyroid hormone. Bro S, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1586–91

Effect of treatment with 1.25 and 1.75 mmol/l calcium dialysate on bone mineral density in haemodialysis patients. Van der Niepen P, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2253–8

Protective effects of calcium from nonfat dried milk against colon carcinogenesis in rats. Pence BC, et al. **Nutr Cancer** 1996;25(1):35–45

Model of mouse mammary gland hyperproliferation and hyperplasia induced by a western-style diet. Xue L, et al. **Nutr Cancer** 1996;26(3):281–7

The effects of dairy products on body composition, bone mineralization, and weight in adolescent girls [see comments] Solomons NW. **Nutr Rev** 1996 Feb;54(2 Pt 1):64–5. Comment in: Nutr Rev 1996 Feb;54(2 Pt 1):66.

A co-twin study of the effect of calcium supplementation on bone density during adolescence. Nowson CA, et al. **Osteoporos Int** 1997;7(3):219–25

Growth of very premature infants fed intravenous hyperalimentation and calcium-supplemented formula. Berry MA, et al. **Pediatrics** 1997 Oct;100(4):647–53

Can low-calcium peritoneal dialysis solution safely replace the standard calcium solution in the majority of chronic peritoneal dialysis patients? Buijsen CG, et al. **Perit Dial Int** 1996 Sep–Oct;16(5):497–504

Effective elimination of fibroblasts in cultures of melanocytes by lowering calcium concentration in TPA depleted medium following geneticin treatment. Horikawa T, et al. **Pigment Cell Res** 1996 Apr;9(2):58–62

Salmon calcitonin and calcium in the treatment of male osteoporosis: the effect on bone mineral density. Erlacher L, et al. **Wien Klin Wochenschr** 1997 Apr 25;109(8):270–4

[Topographical diagnosis of insulinoma of the pancreas. Value of the test of intra-arterial calcium infusion] Reznik Y, et al. **Presse Med** 1997 May 31;26(18):848–51 (Eng. Abstr.) **(Fre)**

[Treatment of allergy with calcium?] Schöpf E, et al. **Med Monatsschr Pharm** 1996 Feb;19(2):56 **(Ger)**

[Calcium supplements. When to use them? (letter)] Martín Alvarez R, et al. **Aten Primaria** 1996 Dec;18(10):583–4 **(Spa)**

ADVERSE EFFECTS

Acute renal failure potentiated by gentamicin and calcium [letter] Bolsin S, et al. **Anaesth Intensive Care** 1997 Aug; 25(4):431–2

Acute renal failure in cardiac surgical patients, potentiated by gentamicin and calcium. Schneider M, et al. **Anaesth Intensive Care** 1996 Dec;24(6):647–50

The influence of hard water (calcium) and surfactants on irritant contact dermatitis. Warren R, et al. **Contact Dermatitis** 1996 Dec;35(6):337–43

Clinical findings with nimodipine in dementia: test of the calcium hypothesis. Fritze J, et al. **J Neural Transm Suppl** 1995;46:439–53 (87 ref.)

[The modification of the effects of calcium on the heart using beta-adrenergic blockers] Hapke HJ, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 May;103(5):170–4 (Eng. Abstr.) **(Ger)**

AGONISTS

S-albuterol exacerbates calcium responses to carbachol in airway smooth muscle cells. Yamaguchi H, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):47–55

Stimulation of cell proliferation by calcium and a calcimimetic compound. Mailland M, et al. **Endocrinology** 1997 Sep;138(9):3601–5

Effect of intracellular pH on agonist-induced [Ca2+]i transients in HT29 cells. Nitschke R, et al. **Pflugers Arch** 1997 Aug;434(4):466–74

ANALYSIS

Qualitative enzyme histochemistry and microanalysis reveals changes in ultrastructural distribution of calcium and calcium-activated ATPases after microwave irradiation of the medial habenula. Kittel A, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):362–8

Acute mechanical overstimulation of isolated outer hair cells causes changes in intracellular calcium levels without shape changes. Fridberger A, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):17–24

Determination of zinc, magnesium and calcium in therapeutical nutrients by flameless AAS after microwave digestion. Soltyk K, et al. **Acta Pol Pharm** 1995 Nov–Dec; 52(6):437–40

Simultaneous measurements of cytosolic calcium ion and pH in cultured superior cervical ganglion cells of rat. Yoshizaki K, et al. **Adv Exp Med Biol** 1996;410:221–6

Detection of coronary artery calcium to differentiate patients with early coronary atherosclerosis from luminally normal arteries. Fallavollita JA, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1281–4

Relation of coronary calcium score by electron beam computed tomography to arteriographic findings in asymptomatic and symptomatic adults. Guerci AD, et al. **Am J Cardiol** 1997 Jan 15;79(2):128–33

Utility of screening for coronary artery calcium [editorial; comment] Hundley WG, et al. **Am J Cardiol** 1996 Dec 1;78(11):1265–6. Comment on: Am J Cardiol 1996 Dec 1;78(11):1220–23.

Does coronary artery screening by electron beam computed tomography motivate potentially beneficial lifestyle behaviors? [see comments] Wong ND, et al. **Am J Cardiol** 1996 Dec 1;78(11):1220–3. Comment in: Am J Cardiol 1996 Dec 1;78(11):1265–6.

Calcium content and respiratory control index of skeletal muscle mitochondria during exercise and recovery. Madsen K, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1044–50

High intracellular calcium concentrations in transformed lymphoblasts from subjects with bipolar I disorder. Emamghoreishi M, et al. **Am J Psychiatry** 1997 Jul; 154(7):976–82

Generation of cell transfectants expressing cardiac calcium ion channel and calcium indicator protein aequorin. Maeda A, et al. **Anal Biochem** 1996 Nov 1;242(1):31–9

Neutral carrier-based "Ca(2+)-selective" microelectrodes for the measurement of tetraphenylphosphonium. Mootha VK, et al. **Anal Biochem** 1996 May 1;236(2):327–30

An optical submicrometer calcium sensor with conductance sensing capability. Shalom S, et al. **Anal Biochem** 1997 Jan 15;244(2):256–9

Calcium biosensing with a sol-gel immobilized photoprotein. Blyth DJ, et al. **Analyst** 1996 Dec;121(12):1975–8

The mineralization of mantle dentine and of circumpulpal dentine in the rat: an ultrastructural and element-analytical study. Stratmann U, et al. **Anat Embryol (Berl)** 1997 Mar; 195(3):289–97

Chemical and X-ray analysis of fluoride, phosphorus, and calcium in human foetal blood and hard tissues. Montherrat-Carret L, et al. **Arch Oral Biol** 1996 Dec; 41(12):1169–78

Effects of extracellular ATP on cytosolic Ca2+ concentration and secretory responses in rat parotid acinar cells. Tojyo Y, et al. **Arch Oral Biol** 1997 May;42(5):393–9

Mediation of the depolarization-induced [Ca(2+)]i increase in rat sublingual acini by acetylcholine released from nerve terminals. Zhang GH, et al. **Arch Oral Biol** 1996 Jan; 41(1):85–90

Inhibition of calcium-induced insulin secretion from intact HIT-T15 or INS-1 beta cells by GTP depletion. Meredith M, et al. **Biochem Pharmacol** 1997 Jun 15;53(12):1873–82

Effects of calmodulin antagonists on calcium pump and cytosolic calcium level in human neutrophils. Capuozzo E, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):123–7

Calcium, magnesium, and phosphorus content of hair from two populations of rhesus monkeys. Marriott BM, et al. **Biol Trace Elem Res** 1996 Summer;53(1–3):147–65

Analytical calculation of intracellular calcium wave characteristics. Kupferman R, et al. **Biophys J** 1997 Jun; 72(6):2430–44

Calcium within a bronchogenic cyst with a fluid level. Aydingöz U, et al. **Br J Radiol** 1997 Jul;70(835):761–3

Determination of intracellular Ca2+ concentration can be a useful tool to predict neuronal damage and neuroprotective properties of drugs. Ferger D, et al. **Brain Res** 1996 Sep 2;732(1–2):87–94

Microwave fixation and localization of calcium in synaptic terminals using x-ray microanalysis and electron energy loss spectroscopy imaging. Mizuhira V, et al. **Brain Res Bull** 1997;43(1):53–8

Effect of cadmium on the bioelement composition of Nostoc UAM208: interaction with calcium. Fernandez-Piñas F, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):543–9

Diltiazem and verapamil prevent vitamin D3-induced myocardial calcium overload in rat papillary muscle: assessment with PVC ETH-123 calcium-selective microelectrodes [letter] Gasser R, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):185–7

What is the concentration of calcium ions in the endoplasmic reticulum? Bygrave FL, et al. **Cell Calcium** 1996 Jun; 19(6):547–51 (35 ref.)

Near membrane Ca2+ changes resulting from store release in neutrophils: detection by FFP-18. Davies EV, et al. **Cell Calcium** 1996 Apr;19(4):355–62

Non-hyperbolic calcium calibration curve of Fura-2: implications for the reliability of quantitative Ca2+ measurements. Henke W, et al. **Cell Calcium** 1996 Sep; 20(3):287–92

Quantification of intraluminal free [Ca] in the agonist-sensitive internal calcium store using compartmentalized fluorescent indicators: some considerations. Hofer AM, et al. **Cell Calcium** 1996 Sep; 20(3):235–42

Selection of fluorescent ion indicators for simultaneous measurements of pH and Ca2+. Martínez-Zaguilán R, et al. **Cell Calcium** 1996 Apr;19(4):337–49

The effects of proteins on [Ca2+] measurement: different effects on fluorescent and NMR methods. Matsuda S, et al. **Cell Calcium** 1996 Nov;20(5):425–30

Determination of in situ dissociation constant for Fura-2 and quantitation of background fluorescence in astrocyte cell line U373-MG. Petr MJ, et al. **Cell Calcium** 1997 Mar; 21(3):233–40

Focal increases in [Ca2+]i may account for apparent low Ca2+ sensitivity in swine carotid artery. Van Riper DA, et al. **Cell Calcium** 1996 Jun;19(6):501–8

Direct measurement of elemental distributions in insulin-producing cells using nuclear microscopy. Palsgard E, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Feb; 42(1):49–57

Microanalysis of calcium-rich human kidney stones at the NAC nuclear microprobe. Pineda CA, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Feb;42(1):119–26

Alterations of neuronal fibers after epileptic activity induced by pentylenetetrazole: fine structure investigated by calcium cytochemistry and neurobiotin labeling (buccal ganglia, Helix pomatia). Wiemann M, et al. **Cell Tissue Res** 1996 Oct;286(1):43–53

A simplified method for Ca2+ flux measurement on isolated human B cells that uses flow cytometry. Gergely L, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):70–4

In situ levels of intracellular Ca2+ and pH in avian growth plate cartilage. Wu LN, et al. **Clin Orthop** 1997 Feb; (335):310–24

Ultrastructural localization of intracellular calcium stores in Xenopus ovarian follicles as revealed by cytochemistry and X-ray microanalysis. Bertout M, et al. **Dev Growth Differ** 1997 Apr;39(2):249–56

Autocrine-paracrine role of endothelin-1 in the regulation of aldosterone synthase expression and intracellular Ca2+ in human adrenocortical carcinoma NCI-H295 cells. Rossi GP, et al. **Endocrinology** 1997 Oct;138(10):4421–6

Is tear calcium an indicator of ocular calcification in patients with chronic renal failure? Oto S, et al. **Eur J Ophthalmol** 1997 Apr–Jun;7(2):181–4

Loading and localization of Fluo-3 and Fluo-3/AM calcium indicators in sinapis alba root tissue. Tretyn A, et al. **Folia Histochem Cytobiol** 1997;35(1):41–51

Ethanol perturbs receptor-operated cytosolic free calcium concentration signals in cultured rat hepatocytes. Zhang BH, et al. **Gastroenterology** 1997 Aug;113(2):641–8

Oral calcium tolerance test in the early diagnosis of primary hyperparathyroidism and multiple endocrine neoplasia type 1 in patients with the Zollinger-Ellison syndrome. Groupe de Recherche et d'Etude du Syndrome de Zollinger-Ellison. Cadiot G, et al. **Gut** 1996 Aug; 39(2):273–8

A modified bottle manikin phantom for in vivo neutron activation analysis. Yasumura S, et al. **Health Phys** 1997 Mar;72(3):443–9

The effect of verapamil on mitochondrial calcium content in normoxic, hypoxic and reoxygenated rat liver. Konrad T, et al. **Histochem J** 1997 Apr;29(4):309–15

Autometallographic localization of protein-bound copper and zinc in the common winkle, Littorina littorea: a light microscopical study. Soto M, et al. **Histochem J** 1996 Oct; 28(10):689–701

Measuring cytosolic Ca2+ in cells with fluorescent probes: an aid to understanding cell pathophysiology. Hayes A, et al. **Int Rev Exp Pathol** 1996;36:197–212 (65 ref.)

Simultaneous imaging of intracellular [Ca2+] and pH in single cells. Wiegmann TB, et al. **Int Rev Exp Pathol** 1996; 36:175–96

Electron beam computed tomographic coronary calcium score cutpoints and severity of associated angiographic lumen stenosis. Rumberger JA, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1542–8

Rapid communication: bovine calcium-sensing receptor gene resides on bovine chromosome1. Neibergs HL, et al. **J Anim Sci** 1996 Oct;74(10):2555

Total body calcium and bone mineral content: comparison of dual-energy X-ray absorptiometry with neutron activation analysis. Ellis KJ, et al. **J Bone Miner Res** 1996 Jun;11(6):843–8

Separate analysis of nuclear and cytosolic Ca2+ concentrations in human umbilical vein endothelial cells. Ikeda M, et al. **J Cell Biochem** 1996 Oct;63(1):23–36

Low bone mineral density and peripheral blood monocyte activation profile in calcium stone formers with idiopathic hypercalciuria [see comments] Ghazali A, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):32–8. Comment in: J Clin Endocrinol Metab 1997 Jan;82(1):29–31.

Measurement of N- and C-terminal-region fragments of parathyroid hormone-related peptide in milk from lactating women and investigation of the relationship of their concentrations to calcium in milk. Uemura H, et al. **J Endocrinol** 1997 Jun;153(3):445–51

Relationship between intracellular free calcium concentrations and the intracellular development of Toxoplasma gondii. Pingret L, et al. **J Histochem Cytochem** 1996 Oct;44(10):1123–9

Comparison of two-photon excitation laser scanning microscopy with UV-confocal laser scanning microscopy in three-dimensional calcium imaging using the fluorescence indicator Indo-1. Sako Y, et al. **J Microsc** 1997 Jan;185 (Pt 1):9–20

Ca2+ and reactive oxygen species in staurosporine-induced neuronal apoptosis. Prehn JH, et al. **J Neurochem** 1997 Apr; 68(4):1679–85

Calcium-containing organelles display unique reactivity to chemical stimulation in cultured hippocampal neurons. Korkotian E, et al. **J Neurosci** 1997 Mar 1;17(5):1670–82

Dietary skim milk powder increases ionized calcium in the small intestine of piglets compared to dietary defatted soybean flour. Matsui T, et al. **J Nutr** 1997 Jul; 127(7):1357–61

Effect of small variations of aluminum intake on calcium metabolism in young rats. Boudey M, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):124–7

Particle sizes of purified kappa-casein: metal effect and

correspondence with predicted three-dimensional molecular models. Farrell HM Jr, et al. **J Protein Chem** 1996 Jul;15(5):435–45

Altered monocyte calcium dynamics in sepsis. Shin H, et al. **J Trauma** 1997 May;42(5):889–93; discussion 893–4

Relationship between age-dependent changes of bovine neutrophil functions and their intracellular Ca2+ concentrations. Higuchi H, et al. **J Vet Med Sci** 1997 Apr; 59(4):271–6

The concentration of Ca2+ that solubilizes outer capsid proteins from rotavirus particles is dependent on the strain. Ruiz MC, et al. **J Virol** 1996 Aug;70(8):4877–83

The skeletal calcium/phosphorus ratio: a new in vivo method of determination. Fountos G, et al. **Med Phys** 1997 Aug; 24(8):1303–10

Subcellular analysis of Ca2+ homeostasis in primary cultures of skeletal muscle myotubes. Brini M, et al. **Mol Biol Cell** 1997 Jan;8(1):129–43

Magnesium, calcium and phosphorus contents in daily food rations in primary school children: questionnaire and analytic studies. Szajkowski Z. **Nahrung** 1996 Dec; 40(6):330–5

Fluorescent indicators for Ca2+ based on green fluorescent proteins and calmodulin [see comments] Miyawaki A, et al. **Nature** 1997 Aug 28;388(6645):882–7. Comment in: Nature 1997 Aug 28;388(6645):834–5.

Protein-protein interactions. Calcium turns turquoise into gold [news; comment] Pozzan T. **Nature** 1997 Aug 28; 388(6645):834–5. Comment on: Nature 1997 Aug 28;388(6645):882–7.

Reduced calcium dialysate in CAPD patients: efficacy and limitations. Armstrong A, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1223–8

What is the appropriate dialysate calcium concentration for the dialysis patient? Ritz E, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:91–5 (23 ref.)

Hardness of tap water and Pseudomonas aeroginosa [letter] Stobberingh EE, et al. **Neth J Med** 1996 Aug;49(2):98–9

Age-related differential susceptibility to calcium channel blocker and low calcium medium in rat detrusor muscle: response to field stimulation. Yu HJ, et al. **Neurourol Urodyn** 1996;15(5):563–76

Demarcation of potentially mineral-deficient areas in central and northern Namibia by means of natural classification systems. Grant CC, et al. **Onderstepoort J Vet Res** 1996 Jun;63(2):109–20

Effects of extracellular calcium on cholesteatoma migration and adhesion in vitro. Minotti AM, et al. **Otolaryngol Head Neck Surg** 1996 Nov;115(5):458–63

Increased sensitivity of the inositol-phospholipid system in neutrophils from patients with acute major depressive episodes. Bohus M, et al. **Psychiatry Res** 1996 Nov 1; 65(1):45–51

Influence of magnesium deficiency on concentration of calcium in soft tissue of uremic rats. Inagaki O, et al. **Ren Fail** 1996 Nov;18(6):847–54

Accuracy evaluation and hematocrit effect of commercial ionized calcium analyzers using Japanese serum reference material. Kuwa K, et al. **Scand J Clin Lab Invest Suppl** 1996;224:173–7

Evaluation of syringes for ionized calcium measurements. Sachs C, et al. **Scand J Clin Lab Invest Suppl** 1996; 224:193–201

The Ca(2+)-standardization of Japan only may cause problems for the importation of foreign analyzers. Umemoto M. **Scand J Clin Lab Invest Suppl** 1996;224:141–3

[Interrelations of the calcium concentration in breast milk with maternal intake of cow's milk and milk products, bone resorption and bone mineral density during lactation] Yoneyama K, et al. **Nippon Eiseigaku Zasshi** 1997 Jan; 51(4):770–9 (Eng. Abstr.) **(Jpn)**

[A study of coloring in human lens nucleus--association of four inorganic elements and dielectric behavior with nuclear color] Matsuoka R, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr;101(4):359–64 (Eng. Abstr.) **(Jpn)**

[Effect of extracellular magnesium on reperfused rat heart and intracellular calcium concentration of the myocardium] Hanafusa Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):536–42 (Eng. Abstr.) **(Jpn)**

[Analysis of intracellular calcium concentration in tissues--special reference to synchronous analysis of the calcium and smooth muscle contraction] Karaki H. **Nippon Seirigaku Zasshi** 1995;57(12):469–76 (10 ref.) **(Jpn)**

[Visual review: signal transduction in T cells] Nakayama T. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1092–9 (5 ref.) **(Jpn)**

[Pharmacognostical studies on adiantum plants. V. Classification based on spore morphology and distributional patterns of silicon and calcium in the ultimate pinnules] Komatsu K, et al. **Yakugaku Zasshi** 1996 Feb;116(2):125–37 (Eng. Abstr.) **(Jpn)**

[Homeostasis of calcium-phosphorus-magnesium in women with pregnancy induced hypertension] Smolarczyk R, et al. **Ginekol Pol** 1996 Oct;67(10):488–92 (Eng. Abstr.) **(Pol)**

[Changes in calcium, phosphate, magnesium and sodium content in bones of ovariectomized rats] de Bortoli MA, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):38–41 (Eng. Abstr.) **(Spa)**

ANTAGONISTS & INHIBITORS

Interferon-gamma induces persistent depletion of internal Ca2+ stores in a human salivary gland cell line. Wu AJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C514–21

Suppression of agonist induced Ca2+ oscillations in cultured hepatocytes by nafenopin: possible involvement of protein kinase C. Leibold E, et al. **Arch Toxicol** 1996;70(3–4):252–5

Methylprednisolone inhibits uptake of Ca2+ and Na+ ions into concanavalin A-stimulated thymocytes. Buttgereit F, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):329–32

Inhibition of terminal calcium overload protects against peroxynitrite-induced cellular injury in macrophages. Szabó C, et al. **Immunol Lett** 1996 Jul;51(3):163–7

Phosphatidylinositol 3-kinase mediates the inhibitory effect of epidermal growth factor on calcium-dependent chloride secretion. Uribe JM, et al. **J Biol Chem** 1996 Oct 25; 271(43):26588–95

Evaluation of the calcium-antagonist, antidiarrhoeic and central nervous system activities of Baccharis serraefolia. Tortoriello J, et al. **J Ethnopharmacol** 1996 Sep; 53(3):157–63

BAPTA-AM and ethanol protect cerebellar granule neurons from the destructive effect of the weaver gene. Liesi P, et al. **J Neurosci Res** 1997 Jun 15;48(6):571–9

Inhibitory effects of tetrandrine on intracellular free Ca2+ increase induced by glutamate, serotonin and histamine in dissociated retina cells. Xuan B, et al. **J Ocul Pharmacol Ther** 1996 Fall;12(3):331–6

Involvement of nitric oxide in the deregulation of cytosolic calcium in cerebellar neurons during combined glucose-oxygen deprivation. Mei JM, et al. **Mol Chem Neuropathol** 1996 Feb;27(2):155–66

Facilitation of the vasorelaxant action of calcium antagonists by basal nitric oxide in depolarized artery. Salomone S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):505–12

Effects of 8-(N-N-diethylamino)octyl-3,4,5-trimethoxybenzoate hydrochloride (TMB-8) on skinned myocardial fibres of the rat: reversible inhibition of calcium release from the sarcoplasmic reticulum. Takahashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):650–5

Effects of calcium channel modulators on the regulation of cytoplasmic Ca2+ and hormone secretion of parathyroid cells. Ridefelt P, et al. **Pharmacol Toxicol** 1996 Mar; 78(3):147–53

Role of electrostatics at the catalytic metal binding site in xylose isomerase action: Ca(2+)-inhibition and metal competence in the double mutant D254E/D256E. Fuxreiter M, et al. **Proteins** 1997 Jun;28(2):183–93

[Magnesium: a natural calcium antagonist] Sviatov IS, et al. **Klin Med (Mosk)** 1996;74(3):54–6 **(Rus)**

BLOOD

Concentrations of magnesium and ionized calcium in umbilical cord blood in distressed term newborn infants with hypoxic-ischemic encephalopathy. Ilves P, et al. **Acta Paediatr** 1996 Nov;85(11):1348–50

Effects of taurine on calcium in platelets and their aggregation. Elizarova EP. **Adv Exp Med Biol** 1996; 403:589–95

Effect of maternal ethanol consumption on maternal and fetal calcium metabolism. Keiver K, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1305–12

Defective calcium increase and inositol phosphate production in anti-CD3-stimulated lymphocytes of alcoholics without progressive liver disease. Stefanini GF, et al. **Alcohol Clin Exp Res** 1996 May;20(3):523–7

Vitamin D, calcium, and bone status in children with developmental delay in relation to anticonvulsant use and ambulatory status. Baer MT, et al. **Am J Clin Nutr** 1997 Apr;65(4):1042–51

Hypertension does not affect intracellular calcium uptake in human platelets. Eberhard M, et al. **Am J Hypertens** 1996 Feb;9(2):137–43

Platelet calcium handling is different in rats with salt-dependent and spontaneous forms of genetic hypertension. Zicha J, et al. **Am J Hypertens** 1996 Aug; 9(8):812–8

No trend toward a spontaneous improvement of hyperparathyroidism and high bone turnover in normocalcemic long-term renal transplant recipients. Dumoulin G, et al. **Am J Kidney Dis** 1997 May;29(5):746–53

A new analog of 1,25-(OH)2D3, 19-NOR-1,25-(OH)2D2, suppresses serum PTH and parathyroid gland growth in uremic rats without elevation of intestinal vitamin D receptor content. Takahashi F, et al. **Am J Kidney Dis** 1997 Jul;30(1):105–12

Time course of the effect of nifedipine therapy and its discontinuation on [Ca2+]i and phagocytosis of polymorphonuclear leukocytes from hemodialysis patients. Alexiewicz JM, et al. **Am J Nephrol** 1997;17(1):12–6

L-selectin stimulation of canine neutrophil initiates calcium signal secondary to tyrosine kinase activation. Crockett-Torabi E, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1302–8

Association of granular exocytosis with Ca(2+)-activated K+ channels in human eosinophils. Saito M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L16–21

NaCl ingestion ameliorates plasma indexes of calcium deficiency. Tordoff MG. **Am J Physiol** 1997 Jul;273(1 Pt 2):R423–32

Effects of temperature on hematologic and serum biochemical profiles of hybrid striped bass (Morone chrysops x Morone saxatilis). Hrubec TC, et al. **Am J Vet Res** 1997 Feb;58(2):126–30

Effects of tromethamine buffer on coagulation variables and ionized calcium concentration in dogs. Moon PF, et al. **Am J Vet Res** 1997 Jul;58(7):777–80

Adjustment of serum total calcium for albumin concentration: effects of non-linearity and of regression differences between laboratories. Barth JH, et al. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):55–8

Age-related changes in albumin adjusted serum calcium in Hong Kong Chinese [letter] Ko GT, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):571–3

Adjustment of serum total calcium for albumin concentration: values change with age in women but not in men. Payne RB, et al. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):59–62

Serum calcium and vitamin D status of patients with sickle cell disease in Curaçao. van der Dijs FP, et al. **Ann Clin Biochem** 1997 Mar;34 (Pt 2):170–2

Evaluation of a laboratory critical limit (alert value) policy for hypercalcemia [see comments] Lum G. **Arch Pathol Lab Med** 1996 Jul;120(7):633–6. Comment in: Arch Pathol Lab Med 1996 Jul;120(7):616–8.

Effects of parathyroidectomy and calcium supplementation on the pressor response to angiotensin II in conscious rats. Maeda T, et al. **Artery** 1996;22(3):125–39

Platelet adhesion and activation on polyethylene glycol modified polyurethane surfaces. Measurement of cytoplasmic calcium. Park KD, et al. **ASAIO J** 1996 Sep-Oct;42(5):M876–81

Pulsatile Ca2+ influx in human neutrophils undergoing CD11b/CD18 integrin engagement. Pettit EJ, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):258–61

Effects of 4-OH-2,3-trans-nonenal on human erythrocyte plasma membrane Ca2+ pump and passive Ca2+ permeability. Raess BU, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):451–4

Characterization of voltage-dependent calcium influx in human erythrocytes by fura-2. Soldati L, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):549–54

A novel biologically active eel calcitonin analogue with carboxyl terminal Hse32-amide: carboxyl terminal Pro32-amide in calcitonin is not essential for biological activity. Yoshina S, et al. **Biochem Mol Biol Int** 1996 Nov; 40(5):923–9

Effect of membrane-permeable sulfhydryl reagents and depletion of glutathione on calcium mobilisation in human platelets. van Gorp RM, et al. **Biochem Pharmacol** 1997 May 15;53(10):1533–42

Regulation of granulocyte apoptosis by PKC inhibition and elevation of [Ca2+]i. Cousin JM, et al. **Biochem Soc Trans** 1997 May;25(2):243S

Human neutrophil Fc alpha R and Fc gamma RIIa but not Fc gamma RIIIb generate intracellular calcium signals which trigger the respiratory burst. Lang ML, et al. **Biochem Soc Trans** 1997 May;25(2):333S

Altered tissue-specific opsonic activities and opsono-recognition of liposomes in tumour-bearing rats. Moghimi SM, et al. **Biochim Biophys Acta** 1996 Nov 13; 1285(1):56–64

Ionic calcium content of light dense human red cells separated by Percoll density gradients. Romero PJ, et al. **Biochim Biophys Acta** 1997 Jan 14;1323(1):23–8

The thyroid, magnesium and calcium in major depression. Joffe RT, et al. **Biol Psychiatry** 1996 Sep 1;40(5):428–9

The serotonin-induced elevation of intracellular Ca2+ in human platelets is enhanced by total fasting. Sudo N, et al. **Biol Psychiatry** 1997 Mar 1;41(5):618–20

Supplementation of calves with stabilized orthosilicic acid. Effect on the Si, Ca, Mg, and P concentrations in serum and the collagen concentration in skin and cartilage. Calomme MR, et al. **Biol Trace Elem Res** 1997 Feb; 56(2):153–65

Calcium, magnesium, and zinc status in experimental hyperthyroidism. Simsek G, et al. **Biol Trace Elem Res** 1997 May;57(2):131–7

Urinary and plasma calcium changes in endurance trained volunteers during exposure to acute and rigorous bed rest conditions. Zorbas YG, et al. **Biol Trace Elem Res** 1996 Jul;54(1):75–86

Modulation of calcium channels in human erythroblasts by erythropoietin. Cheung JY, et al. **Blood** 1997 Jan 1; 89(1):92–100

Fluorescent indicators give biased estimates of intracellular free calcium change in aggregating platelets: implication for studies with human von Willebrand factor. Kermode JC, et al. **Blood Cells Mol Dis** 1996;22(3):238–53

Alendronate in the treatment of Paget's disease of bone. Khan SA, et al. **Bone** 1997 Mar;20(3):263–71

Calcium homeostasis during i.v. infusion of 1.5% glycine in anaesthetized pigs [see comments] Chassard D, et al. **Br J Anaesth** 1996 Aug;77(2):271–3. Comment in: Br J Anaesth 1996 Dec;77(6):810–1.

Influence of authentic nitric oxide on basal cytosolic [Ca2+] and Ca2+ release from internal stores in human platelets. Le Quan Sang KH, et al. **Br J Pharmacol** 1996 Dec; 119(7):1361–6

Response of serum calcium and inorganic phosphate of freshwater catfish, Heteropneustes fossilis, to chlorpyrifos.

Srivastav AK, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):915–21

Overnight suppression of parathyroid hormone and bone resorption markers by active absorbable algae calcium. A double-blind crossover study. Fujita T, et al. **Calcif Tissue Int** 1997 Jun;60(6):506–12

Effects of moderate endurance exercise on calcium, parathyroid hormone, and markers of bone metabolism in young women. Thorsen K, et al. **Calcif Tissue Int** 1997 Jan;60(1):16–20

Abnormal regulation of cytosolic calcium and pH in platelets of Sabra rats in early phases of salt hypertension development. Zicha J, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1222–8

Relationship between the chemiluminescent response of bovine neutrophils and changes in intracellular free calcium concentration. Higuchi H, et al. **Can J Vet Res** 1997 Jan;61(1):57–61

Differences in Ca2+ pumping activity between sub-populations of human red cells. Romero PJ, et al. **Cell Calcium** 1997 May;21(5):353–8

Effect of 764–3 on aggregation and calcium movements in aequorin-loaded human platelets. Wu H, et al. **Chin Med Sci J** 1996 Mar;11(1):49–52

Human platelet Ca2+ mobilization, glycoprotein IIb/IIIa activation, and experimental coronary thrombosis in vivo in dogs are all inhibited by the inotropic agent amrinone. Sill JC, et al. **Circulation** 1997 Sep 2;96(5):1647–53

Validation of candidate reference methods based on ion chromatography for determination of total sodium, potassium, calcium and magnesium in serum through comparison with flame atomic emission and absorption spectrometry. Thienpont LM, et al. **Clin Biochem** 1996 Dec;29(6):501–8

Sarstedt Monovettes falsely increase total calcium results [letter] Collier J, et al. **Clin Chem** 1996 Oct;42(10):1722

Thiocyanate in smokers interferes with the Nova magnesium ion-selective electrode. Rehak NN, et al. **Clin Chem** 1997 Sep;43(9):1595–600

Exercise test: trend of the leukocyte flow properties, polymorphonuclear membrane fluidity and cytosolic Ca2+ content in normals, in subjects with previous acute myocardial infarction and in subjects with aortocoronary by-pass. Caimi G, et al. **Clin Hemorheol Microcirc** 1997 Mar-Apr;17(2):127–35

Measurement of serum ionized versus total levels of magnesium and calcium in hemodialysis patients. Saha H, et al. **Clin Nephrol** 1996 Nov;46(5):326–31

Acute changes in serum calcium and parathyroid hormone circulating levels induced by the oral intake of five currently available calcium salts in healthy male volunteers. Deroisy R, et al. **Clin Rheumatol** 1997 May;16(3):249–53

Combined measurements of ionized calcium and intact parathyroid hormone in blood. Rudnicki PM. **Dan Med Bull** 1996 Feb;43(1):58–67 (188 ref.)

Nisoldipine blocks the increase of intracellular free calcium-ion concentration associated with elevated sodium-lithium countertransport activity in erythrocytes in patients with NIDDM. Fujita J, et al. **Diabet Med** 1997 Jun;14(6):499–502

Cellular ions in NIDDM: relation of calcium to hyperglycemia and cardiac mass. Barbagallo M, et al. **Diabetes Care** 1996 Dec;19(12):1393–8

Deranged platelet calcium homeostasis in diabetic patients with end-stage renal failure. A possible link to increased cardiovascular mortality? Vicari AM, et al. **Diabetes Care** 1996 Oct;19(10):1062–6

Calcium supplements increase bone mineral density in women with low serum calcium levels during long-term estrogen therapy. Mizunuma H, et al. **Endocr J** 1996 Aug;43(4):411–5

State-of-the-art of serum total calcium measurement as investigated by split-sample measurement with an ion chromatography candidate reference method. Van Nuwenborg JE, et al. **Eur J Clin Chem Clin Biochem** 1997 Apr;35(4):297–300

Stimulation of arginine vasopressin secretion by a small increase in blood ionized calcium in normal men. Chiodera P, et al. **Eur J Clin Invest** 1997 Jul;27(7):575–8

Acute PTH response to oral calcium load and seasonal variation of vitamin D status in healthy young adult subjects. Guillemant J, et al. **Eur J Clin Nutr** 1996 Jul;50(7):469–72

Serum calcium, magnesium, copper and zinc and risk of cardiovascular death. Reunanen A, et al. **Eur J Clin Nutr** 1996 Jul;50(7):431–7

Elevated serum-calcium and parathormone-levels in HIV afflicted female heroin addicts. Teichmann J, et al. **Eur J Med Res** 1997 Aug 28;2(8):343–6

Isotransplantation of microencapsulated parathyroid tissue in rats. Hasse C, et al. **Exp Clin Endocrinol Diabetes** 1997;105(1):53–6

Corpuscles of Stannius-extract-induced rapid but transient hypocalcemia and hyperphosphatemia in stingray, Dasyatis akajei. Srivastav AK, et al. **Gen Comp Endocrinol** 1996 Oct;104(1):37–40

Antiplatelet and calcium inhibitory properties of eugenol and sodium eugenol acetate. Chen SJ, et al. **Gen Pharmacol** 1996 Jun;27(4):629–33

Effects of exogenous gangliosides on intracellular Ca2+ mobilization and functional responses in human platelets. Yatomi Y, et al. **Glycobiology** 1996 Apr;6(3):347–53

The calcium-parathyroid hormone regulation in chronic renal failure investigation of its dynamic secretion pattern. Heidbreder E, et al. **Horm Metab Res** 1997 Feb;29(2):70–5

Nonhypercalcemic vitamin D analogs: interactions with the vitamin D-binding protein. Bouillon R, et al. **Horm Res** 1996;45(3-5):117–21 (20 ref.)

Diadenosine polyphosphates induce intracellular Ca2+ mobilization in human neutrophils via a pertussis toxin sensitive G-protein. Gasmi L, et al. **Immunology** 1997 Jan;90(1):154–9

Serum calcium, phosphorus and albumin levels in relation to the angiographic severity of coronary artery disease. Narang R, et al. **Int J Cardiol** 1997 Jun 27;60(1):73–9

Effect of substance P and its precursor alpha-protachykinin on intracellular free calcium concentration in human polymorphonuclear leukocytes. Nowak D, et al. **Int J Clin Lab Res** 1996;26(2):106–11

The augmented platelet intracellular calcium response to serotonin in anorexia nervosa but not bulimia may be due to subsyndromal depression. Berk M, et al. **Int J Eat Disord** 1997 Jul;22(1):57–63

Calcium-phosphorus-magnesium homeostasis in women with threatened preterm delivery. Smolarczyk R, et al. **Int J Gynaecol Obstet** 1997 Apr;57(1):43–8

Dilutional hypocalcaemia from urological irrigating fluids. Hahn RG. **Int Urol Nephrol** 1997;29(2):201–6

Changes in plasma ionised calcium within 24 hours of trauma in patients infused with the calcium containing colloid Haemaccel during fluid resuscitation. Evans PA, et al. **J Accid Emerg Med** 1997 Mar;14(2):73–5

Stimulation of intracellular Ca2+ levels in human neutrophils by soluble immune complexes. Functional activation of FcgammaRIIIb during priming. Watson F, et al. **J Biol Chem** 1997 Jul 18;272(29):17944–51

Improved blood compatibility of drawn polyamide sheets. Tanaka H, et al. **J Biomater Sci Polym Ed** 1996;8(3):211–24

Hysteresis of the PTH-calcium curve during hypocalcemia in the dog: effect of the rate and linearity of calcium decrease and sequential episodes of hypocalcemia. Aguilera-Tejero E, et al. **J Bone Miner Res** 1996 Sep;11(9):1226–33

Regulation of serum calcitriol by serum ionized calcium in rats during pregnancy and lactation. Boass A, et al. **J Bone Miner Res** 1997 Jun;12(6):909–14

Influence of Ca2+ concentration on the clearance and circulating levels of intact and carboxy-terminal iPTH in pentobarbital-anesthetized dogs. D'Amour P, et al. **J Bone Miner Res** 1996 Aug;11(8):1075–85

Evidence for both abnormal set point of PTH stimulation by calcium and adaptation to serum calcium in hemodialysis patients with hyperparathyroidism. Rodriguez M, et al. **J Bone Miner Res** 1997 Mar;12(3):347–55

Transient increase of free cytosolic calcium during neutrophil motility responses. Alteraifi AM, et al. **J Cell Sci** 1997 Aug;110 (Pt 16):1967–77

Serum calcium and survival in a large health screening program. Leifsson BG, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2149–53

Serum calcium: a new, independent, prospective risk factor for myocardial infarction in middle-aged men followed for 18 years. Lind L, et al. **J Clin Epidemiol** 1997 Aug;50(8):967–73

Epidemiological evidence for the disruption of ionized calcium homeostasis in the elderly. Watson JB, et al. **J Clin Epidemiol** 1997 Jul;50(7):845–9

The order of draw of blood specimens into additive containing tubes not affect potassium and calcium measurements. Majid A, et al. **J Clin Pathol** 1996 Dec;49(12):1019–20

Does tuberculosis really cause hypercalcemia? Keleştimur F, et al. **J Endocrinol Invest** 1996 Nov;19(10):678–81

Platelet basal cytosolic calcium: the influence of plasma factors in cirrhosis. Forrest EH, et al. **J Hepatol** 1996 Sep;25(3):312–5

Effects of antihypertensive therapy on platelet cytosolic calcium responses to low density lipoprotein cholesterol. Sowers JR, et al. **J Hum Hypertens** 1996 Mar;10(3):177–80

Cytosolic calcium changes induced by angiotensin II in human peripheral blood mononuclear cells are mediated via angiotensin II subtype 1 receptors. Lijnen P, et al. **J Hypertens** 1997 Aug;15(8):871–6

Activation of the alternative pathway of complement by calcium-loaded erythrocytes resulting from loss of membrane phospholipid asymmetry [see comments] Test ST, et al. **J Lab Clin Med** 1997 Aug;130(2):169–82. Comment in: J Lab Clin Med 1997 Aug;130(2):123–5.

Transient inhibition of capacitative calcium entry in human neutrophils by a monoclonal antibody directed against a 19-kDa antigen. Alonso MT, et al. **J Leukoc Biol** 1996 Sep;60(3):323–7

Enhanced arachidonic acid and calcium metabolism in cholesteryl sulfate-enriched rat platelets. Blache D. **J Lipid Mediat Cell Signal** 1996 Mar;13(2):127–38

Oleic acid-induced Ca2+ mobilization in human platelets: is oleic acid an intracellular messenger? Siafaka-Kapadai A, et al. **J Lipid Mediat Cell Signal** 1997 Mar;15(3):215–32

Cytoplasmic calcium buffers in intact human red cells. Tiffert T, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):139–54

Enhanced calcium response to serotonin in platelets from patients with affective disorders. Yamawaki S, et al. **J Psychiatry Neurosci** 1996 Nov;21(5):321–4

Regulation of inositol 1,4,5-trisphosphate-induced calcium release by inositol 1,4,5-trisphosphate and calcium in human platelets. Eberhard M, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar;15(1-4):297–309

Calcium metabolism in hypocalcemic cows with myocardial lesion. Yamagishi N, et al. **J Vet Med Sci** 1997 Jan;59(1):71–3

How is plasma calcium held constant? Milieu interieur of calcium. Kurokawa K. **Kidney Int** 1996 Jun;49(6):1760–4 (21 ref.)

A reduced PTH response to hypocalcemia after a short period of hypercalcemia: a study in dogs. Sánchez J, et al. **Kidney Int Suppl** 1996 Dec;57:S18–22

A retrospective study of serum calcium levels in a hospital population in Malaysia. Aishah AB, et al. **Med J Malaysia** 1995 Sep;50(3):246–9

Increased intracellular calcium and altered phorbol dibutyrate binding to intact platelets in young subjects with insulin-dependent and non-insulin-dependent diabetes mellitus. Takaya J, et al. **Metabolism** 1997 Aug;46(8):949–53

Circadian relationships between circulating atrial natriuretic peptides and serum calcium and phosphate in healthy humans. Vesely DL, et al. **Metabolism** 1996 Aug;45(8):1021–8

Glucose intolerance is associated with altered calcium homeostasis: a possible link between increased serum calcium concentration and cardiovascular disease mortality. Wareham NJ, et al. **Metabolism** 1997 Oct;46(10):1171–7

Satisfactory control of secondary hyperparathyroidism with low-calcium dialysate in patients not receiving vitamin D. Teruel JL, et al. **Miner Electrolyte Metab** 1997;23(1):19–24

Increase in calcium content and Ca(2+)-ATPase activity in the brain of fasted rats: comparison with different ages. Hanahisa Y, et al. **Mol Cell Biochem** 1997 Jun;171(1-2):127–32

Development of a dose-response bioassay for stanniocalcin in fish. Wagner GF, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1-2):19–28

Eotaxin triggers eosinophil-selective chemotaxis and calcium flux via a distinct receptor and induces pulmonary eosinophilia in the presence of interleukin 5 in mice. Rothenberg ME, et al. **Mol Med** 1996 May;2(3):334–48

Evidence for adaptation of the entire PTH-calcium curve to sustained changes in the serum calcium in haemodialysis patients. Borrego MJ, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):505–13

Risk/benefit in prophylaxis and treatment of secondary hyperparathyroidism. A comparison of two low calcium peritoneal dialysis fluids. Bro S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:47–9

The PTH-calcium relationship curve in secondary hyperparathyroidism, an index of sensitivity and suppressibility of parathyroid glands. Caligara F, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:136–41

The set point of calcium--another view [editorial; comment] [see comments] Felsenfeld AJ, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1722–5. Comment on: Nephrol Dial Transplant 1996 Sep;11(9):1725–7. Comment in: Nephrol Dial Transplant 1997 Jun;12(6):1302–3.

Impact of the method of calculation on assessment of the parathyroid hormone-calcium set point [letter] Felsenfeld AJ, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1768–9

The set point revisited, again [editorial] [see comments] Goodman WG, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1725–7. Comment in: Nephrol Dial Transplant 1996 Sep;11(9):1722–5. Comment in: Nephrol Dial Transplant 1997 Jun;12(6):1302–3.

Impact of the method of calculation on assessment of the PTH-calcium set point. Messa P, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):101–5

Low-dose calcitriol prevents the rise in 1,84-iPTH without affecting serum calcium and phosphate in patients with moderate renal failure (prospective placebo-controlled multicentre trial). Ritz E, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2228–34

Ventricular tachycardia due to rapidly changing serum calcium levels following total parathyroidectomy [letter; comment] Bacon NC, et al. **Nephron** 1996;74(1):236–7. Comment on: Nephron 1995;70(1):110–1.

Alterations in induced potassium calcium efflux in the erythrocytes of patients with autosomal dominant polycystic kidney disease and hypertension [letter] Buemi M, et al. **Nephron** 1997;76(3):369–70

Serum and cerebrospinal levels of calcium and magnesium in acute versus remitted schizophrenic patients. Levine J, et al. **Neuropsychobiology** 1996;33(4):169–72

A comparison of the effects of alfacalcidol treatment and vitamin D2 supplementation on calcium absorption in elderly women with vertebral fractures. Francis RM, et al. **Osteoporos Int** 1996;6(4):284–90

Platelet membrane fluidity and intraplatelet Ca2+ homeostasis are affected in uremia. Walkowiak B, et al. **Pol J Pharmacol** 1996 May-Jun;48(3):299–302

Virginiamycin and caloric density effects on live performance, blood serum metabolite concentration, and carcass composition of broilers reared in thermoneutral and cycling ambient temperatures. Belay T, et al. **Poult Sci** 1996 Nov;75(11):1383–92

Acute high environmental temperature and calcium-estrogen relationship in the hen. Mahmoud KZ, et al. **Poult Sci** 1996 Dec;75(12):1555–62

Environmental heat stress does not reduce blood ionized

calcium concentration in hens acclimated to elevated temperatures. Samara MH, et al. **Poult Sci** 1996 Feb; 75(2):197–200

Biosynthesis of B2–integrin, intracellular calcium signalling and functional responses of normal and CD18–deficient bovine neutrophils. Nagahata H, et al. **Res Vet Sci** 1996 Sep;61(2):95–101

Vitamin D status of older South Africans. Charlton KE, et al. **S Afr Med J** 1996 Nov;86(11):1406–10

Relation between blood pH and ionized calcium during acute metabolic alteration of the acid–base balance in vivo. Gaiter AM, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):317–23

Predictive value of serum ionized but not total magnesium levels in head injuries. Memon ZI, et al. **Scand J Clin Lab Invest** 1995 Dec;55(8):671–7

A mathematical/physiological model of parathyroid hormone secretion in response to blood–ionized calcium lowering in vivo. Momsen G, et al. **Scand J Clin Lab Invest** 1997 Aug;57(5):381–94

Comparison of precision and effect of pH and calcium on the AVL and NOVA magnesium ion–selective electrodes. Elin RJ, et al. **Scand J Clin Lab Invest Suppl** 1996; 224:203–10

Changes in plasma ionized calcium and magnesium in blood donors after donation of 450 mL blood. Effects of hemodilution and Donnan equilibrium. Fogh–Andersen N, et al. **Scand J Clin Lab Invest Suppl** 1996;224:245–50

Evaluation of syringes for ionized calcium measurements. Sachs C, et al. **Scand J Clin Lab Invest Suppl** 1996; 224:193–201

The Ca(2+)–standardization of Japan only may cause problems for the importation of foreign analyzers. Umemoto M. **Scand J Clin Lab Invest Suppl** 1996;224:141–3

Perturbations in blood Ca(2)+ do not affect the activity of rat stomach enterochromaffin–like cells. Hakanson R, et al. **Scand J Gastroenterol** 1996 Mar;31(3):217–21

Serum concentration and dietary intake of Mg and Ca in institutionalized elderly people. Gámez C, et al. **Sci Total Environ** 1997 Sep 15;203(3):245–51

Spontaneous vocal cord paresis and return to normocalcemia: an unusual presentation of parathyroid adenoma with concomitant abscess. Angelos P, et al. **Surgery** 1997 Jun; 121(6):704–7

Population–based screening for primary hyperparathyroidism with serum calcium and parathyroid hormone values in menopausal women. Lundgren E, et al. **Surgery** 1997 Mar; 121(3):287–94

Porcine von Willebrand factor binding to human platelet GPIb induces transmembrane calcium influx. Mazzucato M, et al. **Thromb Haemost** 1996 Apr;75(4):655–60

The differences in Ca(2+)–sensitivity of protein kinase C in platelets from Wistar Kyoto rat and stroke–prone spontaneously hypertensive rat. Ikeda M, et al. **Thromb Res** 1996 Jun 1;82(5):417–27

Transfer of patients with kidney grafts to Sandimmun Neoral normalizes the calcium level in erythrocyts. Babarykin D, et al. **Transplant Proc** 1996 Dec;28(6):3137

Relationship between 1,25–dihydroxyvitamin–D, calcium and uric acid in urinary stone formers. Jarrar K, et al. **Urol Int** 1996;56(1):16–20

Parathyroid incidentalomas in normocalcemic patients during thyroid surgery. Carnaille BM, et al. **World J Surg** 1996 Sep;20(7):830–4; discussion 834

Parathyroid tissue in normocalcemic and hypercalcemic primary hyperparathyroidism recruited by health screening. Lundgren E, et al. **World J Surg** 1996 Sep; 20(7):727–34; discussion 735

A comparison of serum ionized calcium concentrations and serum total calcium concentrations in dogs with lymphoma. Teachout DJ, et al. **Zentralbl Veterinarmed A** 1997 Jun; 44(4):195–200

[The effect of short–term hyperventilation on the concentration of ionized serum calcium] Steurer J, et al. **Dtsch Med Wochenschr** 1997 Jul 11;122(28–29):887–9 (Eng. Abstr.) **(Ger)**

[Course of blood levels of calcium, inorganic phosphate, alkaline phosphatase, parathyroid hormone and calcidiol (25–OH–D3) in one and two year old thoroughbred horses] Enbergs H, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec;103(12):491–3 (Eng. Abstr.) **(Ger)**

[The effect of the albumin concentration on the relation between the concentration of ionized calcium and total calcium in the blood of dogs] Mischke R, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Jun;103(6):199–204 (Eng. Abstr.) **(Ger)**

[LILAs (lipid–like leukocyte activators) isolated from Saccharomyces cerevisiae induce calcium mobilization in human neutrophilic granulocytes[Bülow M, et al. **Mycoses** 1996;39 Suppl 1:87–93 (Eng. Abstr.) **(Ger)**

[Diurnal alteration of platelet–free Ca2+ in subjects with normal renal function and patients undergoing CAPD] Yamada K, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug; 38(8):342–8 (Eng. Abstr.) **(Jpn)**

[Blood chemical analysis. C. Key points in sampling for ionized Ca determination] Nakagiri I, et al. **Rinsho Byori** 1996 Nov;Suppl 103:169–74 **(Jpn)**

[Magnesium and calcium level in blood serum of pregnant women with pregnancy threatening miscarriage] Roszyk A. **Ginekol Pol** 1996 Dec;67(12):607–11 (Eng. Abstr.) **(Pol)**

[Homeostasis of calcium in the organism] Brzóska MM, et al. **Pol Merkuriusz Lek** 1996 Nov;1(5):363–5 (31 ref.) (Eng. Abstr.) **(Pol)**

[Parathyroid hormone–calcium system in the functional activity of the hypothalamo–neurohypophyseal complex] Khudaverian DN, et al. **Biull Eksp Biol Med** 1996 Nov; 122(11):484–6 **(Rus)**

[Screening for malignant neoplasms by using the new method of marker diagnosis, the Oncotest] Suslov EI, et al. **Lik Sprava** 1997 Jan–Feb;(1):99–103 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Serum and cerebrospinal levels of calcium and magnesium in acute versus remitted schizophrenic patients. Levine J, et al. **Neuropsychobiology** 1996;33(4):169–72

CHEMISTRY

Random mutagenesis of the weak calcium binding site in subtilisin Carlsberg and screening for thermostability by temperature–gradient gel electrophoresis. Sättler A, et al. **Adv Exp Med Biol** 1996;379:171–82

The physiological property and function of the electrolyzed–ionized calcium Aquamax on water molecular clusters fractionization. Hatto M, et al. **Artif Organs** 1997 Jan;21(1):43–9

The structure of the muscle protein complex 4Ca2+.troponin C.troponin I. Monte Carlo modeling analysis of small–angle X–ray data. Olah GA, et al. **Basic Life Sci** 1996;64:137–47

Biodegradable bone cement compositions based on acrylate and epoxide terminated poly(propylene fumarate) oligomers and calcium salt compositions. Domb AJ, et al. **Biomaterials** 1996 Feb;17(4):411–7

Some basic psychophysics of calcium salt solutions. Tordoff MG. **Chem Senses** 1996 Aug;21(4):417–24

Calcium crystals and cartilage damage [see comments] McCarthy GM. **Curr Opin Rheumatol** 1996 May;8(3):255–8 (30 ref.). Comment in: Curr Opin Rheumatol 1996 May;8(3):235–7.

Molecular geometries of dibenzothiazepinone and dibenzoxazepinone calcium antagonists. Li R, et al. **Drug Des Discov** 1995 Apr;12(4):337–58

Nucleotide and calcium–induced conformational changes in histone H1. Tarkka T, et al. **FEBS Lett** 1997 Apr 7; 406(1–2):56–60

Secondary structure and Ca(2+)–binding property of the N–terminal half domain of calmodulin from yeast Saccharomyces cerevisiae as studied by NMR. Ohki S, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1045–55

CD38 and ADP–ribosyl cyclase catalyze the synthesis of a dimeric ADP–ribose that potentiates the calcium–mobilizing activity of cyclic ADP–ribose. De Flora A, et al. **J Biol Chem** 1997 May 16;272(20):12945–51

Calcium determines the shape of fibrillin. Reinhardt DP, et al. **J Biol Chem** 1997 Mar 14;272(11):7368–73

Behavior of calcium and phosphate in artificial casein micelles. Zhang ZP, et al. **J Dairy Sci** 1996 Oct; 79(10):1722–27

Resonance energy transfer imaging of phospholipid vesicle interaction with a planar phospholipid membrane: undulations and attachment sites in the region of calcium–mediated membrane–membrane adhesion. Niles WD, et al. **J Gen Physiol** 1996 Mar;107(3):329–51

Calcium and phosphate solubility curves for parenteral nutrient solutions containing Vaminolact. Mo–Suwan L, et al. **J Med Assoc Thai** 1997 Aug;80(8):516–20

Role of calcium chelation in high–temperature antigen retrieval at different pH values. Morgan JM, et al. **J Pathol** 1997 Jun;182(2):233–7

Interaction of annexins IV and VI with phosphatidylserine in the presence of Ca2+: monolayer and proteolytic study. Bandorowicz–Pikula J, et al. **Mol Membr Biol** 1996 Oct–Dec;13(4):241–50

Molecular mechanics of calcium–myristoyl switches. Ames JB, et al. **Nature** 1997 Sep 11;389(6647):198–202

A 27–kDa matrix receptor from rat brain synaptosomes: selective recognition of the Arg–Gly–Asp–Ser domain and unique resistance to calcium–dependent proteolysis. Capaldi D, et al. **Neurosci Res** 1997 Jul;28(3):275–9

Structural basis for the negative allostery between Ca(2+)– and Mg(2+)–binding in the intracellular Ca(2+)–receptor calbindin D9k. Andersson M, et al. **Protein Sci** 1997 Jun; 6(6):1139–47

Monitoring calcium–induced conformational changes in recoverin by electrospray mass spectrometry. Neubert TA, et al. **Protein Sci** 1997 Apr;6(4):843–50

Time–resolved fluorescence study of a calcium–induced conformational change in prothrombin fragment 1. Hof M, et al. **Proteins** 1996 Apr;24(4):485–94

The solution structure of the bovine S100B protein dimer in the calcium–free state. Kilby PM, et al. **Structure** 1996 Sep 15;4(9):1041–52

[Calorimetric study of Ca2+ and Mn2+ ions' effect on DNA helix–coil transition] Kornilova SV, et al. **Biofizika** 1997 May–Jun;42(3):599–606 (Eng. Abstr.) **(Rus)**

[A possible biological function of cadmium as a calcium analog] Bondar' VS. **Dokl Akad Nauk** 1997 Feb; 352(5):693–4 **(Rus)**

DEFICIENCY

Bone mineral acquisition in low calcium intake children following the withdrawal of calcium supplement. Lee WT, et al. **Acta Paediatr** 1997 Jun;86(6):570–6

Calcium entry activated by store depletion in coronary endothelium is promoted by tyrosine phosphorylation. Sharma NR, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H267–74

Reloading of Ca(2+)–depleted sarcoplasmic reticulum during rest in guinea pig ventricular myocytes. Terracciano CM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1814–22

NaCl ingestion ameliorates plasma indexes of calcium deficiency. Tordoff MG. **Am J Physiol** 1997 Jul;273(1 Pt 2):R423–32

Effect of a low–calcium environment on alkaline phosphatase activity in embryonic rat calvarial bone cells in culture. Yoshimura Y, et al. **Arch Oral Biol** 1996 Jan;41(1):41–5

Effect of low dietary calcium intake on blood pressure and pressure natriuresis response in rats: a possible role of the renin–angiotensin system. Yuasa S, et al. **Blood Press** 1996 Mar;5(2):121–7

Bone density and tissue lead accretion in growing rats fed low high calcium with or without supplemental clinoptilolite. Pond WG, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):713–21

Elevated collagen turnover in Nigerian children with calcium–deficiency rickets. Sharp CA, et al. **Calcif Tissue Int** 1997 Aug;61(2):87–94

Rickets of premature infants induced by calcium deficiency. A case report. Tsai JR, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):142–7

Calcium and phosphorous deficiencies alter the lipid composition and fluidity of intestinal basolateral membranes. Tolosa de Talamoni NG. **Comp Biochem Physiol A Physiol** 1996 Dec;115(4):309–15

Lack of dietary calcium effect on chlordecone increased white blood cell count, total iron, and iron–binding capacity in serum of rat. Chetty KN, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):268–70

Regulation of melatonin synthesis in rainbow trout (Oncorhyncus mykiss) pineal organs: effects of calcium depletion and calcium channel drugs. Gasser PJ, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):210–7

Major risk factors for atherosclerosis are manifested in experimental Ca–deficiency. Koide M, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S35–40

Teens, calcium and osteoporosis [news] **J Am Dent Assoc** 1997 Feb;128(2):154

Correcting calcium nutritional deficiency prevents spine fractures in elderly women. Recker RR, et al. **J Bone Miner Res** 1996 Dec;11(12):1961–6

Landscapes of longevity: the calcium–selenium–mercury connection in cancer and heart disease. Foster HD. **Med Hypotheses** 1997 Apr;48(4):355–60 (76 ref.)

Calcium insufficiency and fracture risk. Dawson–Hughes B. **Osteoporos Int** 1996;6 Suppl 3:37–41 (26 ref.)

Chronic effect of aluminium ingestion on bone in calcium–deficient rats. Konishi Y, et al. **Pharmacol Toxicol** 1996 Jun;78(6):429–34

Timing of the calcium intake and effect of calcium deficiency on behaviour and egg laying in captive great tits, Parus major. Graveland J, et al. **Physiol Zool** 1997 Jan–Feb; 70(1):74–84

Prevention of hip fractures by correcting calcium and vitamin D insufficiencies in elderly people. Meunier P. **Scand J Rheumatol Suppl** 1996;103:75–8; discussion 79–80

Calcium deficiency in wild birds. Graveland J. **Vet Q** 1996; 18 Suppl 3:S136–7 (8 ref.)

Calcium deficiency, diet and dental disease in pet rabbits [see comments] Harcourt–Brown FM. **Vet Rec** 1996 Dec 7; 139(23):567–71. Comment in: Vet Rec 1997 Jan 11;140(2):52.

[The role of dietary calcium in hypertensive disease: update and clinical implications] Zgheib A, et al. **J Med Liban** 1995;43(2):89–96 (77 ref.) **(Fre)**

[Calcium deficiency as on of the risk factors of osteoporosis] Brzóska MM, et al. **Postepy Hig Med Dosw** 1997; 51(1):55–74 (86 ref.) (Eng. Abstr.) **(Pol)**

[Mechanisms of increase in the arterial blood pressure during deficiency of exogenous calcium] Churina SK, et al. **Biull Eksp Biol Med** 1994 May;117(5):476–7 **(Rus)**

DIAGNOSTIC USE

Localization of insulinomas by selective intraarterial calcium injection [letter; comment] Fukunaga Y, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4501. Comment on: J Clin Endocrinol Metab 1996 Apr;81(4):1623–7.

Sensitivity to calcium intake in calcium stone forming patients. Heilberg IP, et al. **Nephron** 1996;73(2):145–53

Use of calcium provocative test in the diagnosis of gastroenteropancreatic endocrine tumors. Vezzadini C, et al. **Panminerva Med** 1996 Dec;38(4):255–8 (14 ref.)

[Calcium charge test in secondary hyperparathyroidism (letter)] Vallette S, et al. **Presse Med** 1997 Feb 15;26(4):164 **(Fre)**

HISTORY

[Quantitative nutritional reconstruction by trace element data] Gröbmeyer A. **Anthropol Anz** 1997 Jun;55(2):179–82 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Enhancement of calcium signaling and proliferation responses in activated human T lymphocytes. Inhibitory effects of K+ channel block by charybdotoxin depend on the T cell activation state. Verheugen JA, et al. **Cell Calcium** 1997

Jan;21(1):1-17

Ca2+-dependent, Fas- and perforin-independent apoptotic death of allografted tumor cells by a type of activated macrophage. Yoshida R, et al. **J Immunol** 1997 Jul 1; 159(1):15-21

Signal transduction properties of the T cell activation monoclonal antibody panel: ubiquitous increase in cellular substrate tyrosine phosphorylation in the absence of detectable calcium mobilization. Levine BL, et al. **Tissue Antigens** 1996 Oct;48(4 Pt 1):319-24

The cytosolic free Ca2+ in ectromelia (mousepox) virus stimulated cytotoxic T lymphocytes. Toka FN, et al. **Viral Immunol** 1996;9(3):159-167

METABOLISM

Role of intracellular calcium stores in contrast medium-induced renal vasoconstriction. Drescher P, et al. **Acad Radiol** 1996 Nov;3(11):912-8

Effects of volatile anesthetics on the calcium ionophore A23187-mediated alterations in hepatic flow and metabolism in the perfused liver in fasted rats. Araki M, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):55-61

Effect of lidocaine on histamine release and Ca2+ mobilization from mast cells and basophils. Yanagi H, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1138-44

Inhibition of calcium spikes by gamma-amino-butyric acid in the neurons of Lymnaea stagnalis L. Rubakhin SS, et al. **Acta Biol Hung** 1995;46(2-4):375-80

Interleukin-4 potentiates voltage-activated Ca-currents in Lymnaea neurons. Szücs A, et al. **Acta Biol Hung** 1995; 46(2-4):351-62

Diabetes-induced changes in the contractility of the aorta and pA2 of nifedipine in the rat. Mahmoudian M, et al. **Acta Diabetol** 1996 Jul;33(2):114-7

Concanavalin A enhances quisqualate-induced calcium influx in cerebellar granule cells in culture. Danysz W, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):649-56

Acidosis inhibits calcium accumulation in intrasynaptosomal mitochondria. Fedorovich SV, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):703

Is calcium accumulation post-injury an indicator of cell damage? Linde R, et al. **Acta Neurochir Suppl (Wien)** 1996; 66:15-20

Serum prevents glutamate-induced mitochondrial calcium accumulation in primary neuronal cultures. Dux E, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):264-72

Comparison of the effects of trimethyltin on the intracellular calcium levels in spiral ganglion cells and outer hair cells. Liu Y, et al. **Acta Otolaryngol (Stockh)** 1996 May; 116(3):417-21

Effect of histamine on intracellular Ca2+ concentration in guinea pig isolated vestibular hair cells. Tomoda K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:37-40

Intracellular Ca2+ imaging of cultured chicken telencephalic cells: characterization of ionotropic glutamate receptor activation. Lendvai B, et al. **Acta Physiol Hung** 1996; 84(3):305-7

Signal transduction in human myometrial cells. Molnár M, et al. **Acta Physiol Hung** 1996;84(2):89-97

Glucagon-like peptide-1(7-36)amide and cytoplasmic calcium in insulin producing cells. Ahrén B, et al. **Acta Physiol Scand** 1996 Jul;157(3):333-41

Ultrastructural evidence for loss of calcium homeostasis in exercised skeletal muscle. Fridén J, et al. **Acta Physiol Scand** 1996 Dec;158(4):381-2

Molecular mechanism underlying glucagon-like peptide 1 induced calcium mobilization from internal stores in insulin-secreting beta TC3 cells. Gromada J, et al. **Acta Physiol Scand** 1996 Jul;157(3):349-51 (7 ref.)

Angiotensin II induces a tachyphylactic calcium response in the rabbit afferent arteriole. Kornfeld M, et al. **Acta Physiol Scand** 1997 Jun;160(2):165-73

VIP-antiserum and indomethacin inhibit calcium and bicarbonate secretion by the inflamed feline gallbladder mucosa. Nilsson B, et al. **Acta Physiol Scand** 1996 Oct; 158(2):203-9

Intracellular Ca2+ release by InsP3 in cerebellar Purkinje neurones. Ogden D, et al. **Acta Physiol Scand** 1996 Jul; 157(3):381-94 (40 ref.)

Hypotonic swelling or stretch does not change cytosolic calcium in mouse renal juxtaglomerular cells. Scholz H, et al. **Acta Physiol Scand** 1996 Jun;157(2):283-7

Modulation of Ca2+ and Na+ transport by taurine in heart and vascular smooth muscle. Bkaily G, et al. **Adv Exp Med Biol** 1996;403:263-73

Ca2+ channel currents in type I carotid body cells from normoxic and chronically hypoxic rats. Carpenter E, et al. **Adv Exp Med Biol** 1996;410:105-8

Acetylcholine elevates intracellular Ca2+ via muscarinic and nicotinic receptors in rat carotid body type I cells. Dasso LL, et al. **Adv Exp Med Biol** 1996;410:239-44

Metabolic inhibitors affect the conductance of low voltage-activated calcium channels in brain capillary endothelial cells. Delpiano MA. **Adv Exp Med Biol** 1996; 410:109-13

Cannabinoids and interleukin-6 enhance the response to NMDA in developing CNS neurons. Gruol DL, et al. **Adv Exp Med Biol** 1996;402:111-7

Ca(2+)-signalling in human T-lymphocytes. Potential roles for cyclic ADP-ribose and 2'-phospho-cyclic ADP-ribose. Guse AH, et al. **Adv Exp Med Biol** 1997; 419:431-6 (16 ref.)

ADP-ribosyl cyclase and CD38. Multi-functional enzymes in Ca+2 signaling. Lee HC, et al. **Adv Exp Med Biol** 1997; 419:411-9 (29 ref.)

Intracellular Ca2+ deposits and catecholamine secretion by chemoreceptor cells of the rabbit carotid body. Obeso A, et al. **Adv Exp Med Biol** 1996;410:279-84

Effects of taurine and structurally related analogues on Ca2+ uptake and respiration rate in rat liver mitochondria. Palmi M, et al. **Adv Exp Med Biol** 1996;403:117-24

Regulation of Ca2+ transport by insulin and taurine. Interaction at the level of the Na(+)-Ca2+ exchanger. Schaffer SW, et al. **Adv Exp Med Biol** 1996;403:551-60

Effect of acetylcholine on intracellular calcium of carotid body cells of adult cats. Shirahata M, et al. **Adv Exp Med Biol** 1996;410:257-60

Cardioprotective effect of taurine on calcium paradox in streptozotocin-induced diabetic rat hearts. Tatsumi T, et al. **Adv Exp Med Biol** 1996;403:539-49

Potentiation of the age-dependent Ca uptake into coronary arteries of rats by the risk factor genetic hypertension. Thimm F, et al. **Adv Exp Med Biol** 1996;388:489-93

Intramolecular ADP-ribose transfer reactions and calcium signalling. Potential role of 2'-phospho-cyclic ADP-ribose in oxidative stress. Vu CQ, et al. **Adv Exp Med Biol** 1997; 419:381-8 (31 ref.)

Bovine liver mitochondrial NAD+ glycohydrolase. Relationship to ADP-ribosylation and calcium fluxes. Ziegler M, et al. **Adv Exp Med Biol** 1997;419:443-6

A Ca(2+)-sensing receptor: from physiology to inherited disorders of calcium homeostasis. Hebert SC, et al. **Adv Nephrol Necker Hosp** 1996;25:245-55 (55 ref.)

Effects of glutamate on calcium influx and sequestration/extrusion mechanisms in hippocampal neurons. DeLorenzo RJ, et al. **Adv Neurol** 1996;71:37-46 (35 ref.)

Calcium handling by hippocampal neurons under physiologic and pathologic conditions. Erecinska M, et al. **Adv Neurol** 1996;71:119-36 (176 ref.)

Glutamate, arachidonic acid, and calcium regulation in cultured hippocampal astrocytes: involvement in ischemia? Madden KS, et al. **Adv Neurol** 1996;71:53-9

Mechanisms of calcium-related cell death. Orrenius S, et al. **Adv Neurol** 1996;71:137-49; discussion 149-51

Cytosolic calcium concentrations and cell death in vitro. Tymianski M. **Adv Neurol** 1996;71:85-105 (160 ref.)

Chronic treatment of cultured cerebral vascular smooth cells with low concentration of ethanol elevates intracellular calcium and potentiates prostanoid-induced rises in [Ca2+]i: relation to etiology of alcohol-induced stroke. Zhang A, et al. **Alcohol** 1997 Jul-Aug;14(4):367-71

Inhibition of ethanol-induced inositol phosphate formation and Ca(2+) mobilization by okadaic acid in rat hepatocytes: evidence for a role of protein phosphatases in the modulation of phospholipase C by ethanol. Higashi K, et al. **Alcohol Alcohol** 1994;29 Suppl 1:53-9

Effect of glutathione on inositol 1,4,5-triphosphate-induced Ca2+ release in permeabilized hepatocytes from control and chronic ethanol-fed rats. Nomura T, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):325A-329A

Inhibitory effect of ethanol on hepatocyte growth factor-induced DNA synthesis and Ca2+ mobilization in rat hepatocytes. Saso K, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):330A-334A

Effects of prenatal ethanol exposure on brain region NMDA-mediated increase in intracellular calcium and the NMDAR1 subunit in forebrain. Spuhler-Phillips K, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):68-75

Cultured postnatal rat medial septal neurons respond to acute ethanol treatment and nerve growth factor by changing intracellular calcium levels. Webb B, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1385-94

NSAIDs upregulate beta 2-integrin expression on human neutrophils through a calcium-dependent pathway. Fiorucci S, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):619-30

Calcium retention in relation to calcium intake and postmenarcheal age in adolescent females. Jackman LA, et al. **Am J Clin Nutr** 1997 Aug;66(2):327-333

Bone mineral density changes during lactation: maternal, dietary, and biochemical correlates. Krebs NF, et al. **Am J Clin Nutr** 1997 Jun;65(6):1738-46

Bone mineral and calcium accretion during puberty. Martin AD, et al. **Am J Clin Nutr** 1997 Sep;66(3):611-5

Platelet microparticles and calcium homeostasis in acute coronary ischemias. Katopodis JN, et al. **Am J Hematol** 1997 Feb;54(2):95-101

Effect of cilazapril and salt on Ca2+ extrusion in arterial smooth muscle of Dahl rats. Ashida T, et al. **Am J Hypertens** 1997 May;10(5 Pt 2):107S-111S

The alterations in insulin sensitivity during angiotensin converting enzyme inhibitor treatment are related to changes in the calcium/magnesium balance. Haenni A, et al. **Am J Hypertens** 1997 Feb;10(2):145-51

Increased intracellular Ca2+ is not coinherited with an inferred major gene locus for hypertension (ht) in the spontaneously hypertensive rat. Ohno Y, et al. **Am J Hypertens** 1997 Mar;10(3):282-8

Lack of difference in oxalate-dependent Ca2+ uptake by membrane homogenate of African-American and white subjects. Yang XY, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):434-9

A longitudinal study on the effect of nifedipine therapy and its discontinuation on [Ca2+]i and proliferation of B lymphocytes of dialysis patients. Alexiewicz JM, et al. **Am J Kidney Dis** 1997 Feb;29(2):233-8

Elevated cytosolic calcium and impaired proliferation of B lymphocytes in type II diabetes mellitus. Alexiewicz JM, et al. **Am J Kidney Dis** 1997 Jul;30(1):98-104

Are we mismanaging calcium and phosphate metabolism in renal failure? Hsu CH. **Am J Kidney Dis** 1997 Apr; 29(4):641-9

Evidence of myocardial dysfunction in Bartter's syndrome. Calò L, et al. **Am J Nephrol** 1997;17(2):124-7

Protein kinase C and Ca2+ activation of mucin secretion in airway goblet cells. Abdullah LH, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L201-10

Extracellularly applied ruthenium red and cADP ribose elevate cytosolic Ca2+ in isolated rat osteoclasts. Adebanjo OA, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F469-75

Ca(2+)-dependent outward currents in myocytes from epicardial border zone of 5-day infarcted canine heart. Aggarwal R, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1386-94

Halothane reduces myofilament Ca2+ sensitivity during muscarinic receptor stimulation of airway smooth muscle. Akao M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L719-25

Presence of a metabotropic and an ionotropic purinergic receptor on rat submandibular ductal cells. Amsallem H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1546-55

Effects of Na-K-2Cl cotransport inhibition on myocardial Na and Ca during ischemia and reperfusion. Anderson SE, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C608-18

Roles of Cl- channels and Ca2+ mobilization in stretch-induced increase of SA node pacemaker activity. Arai A, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1726-35

Force decline during muscle relaxation promotes calcium release to the cytosol. Baker AJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C85-91

Interrelating of ventricular pressure and intracellular calcium in intact hearts. Baran D, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 2):H1509-22

Diastolic SR Ca efflux in atrial pacemaker cells and Ca-overloaded myocytes. Bassani RA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H886-92

Insulin induces Ca2+ influx into isolated rat hepatocyte couplets. Benzeroual K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1425-32

Estrogen reduces proliferation and agonist-induced calcium increase in coronary artery smooth muscle cells. Bhalla RC, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1996-2003

Roles of cytoplasmic Ca2+ and intracellular Ca2+ stores in induction and suppression of apoptosis in S49 cells. Bian X, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1241-9

Temporal effects of cytokines on neonatal cardiac myocyte Ca2+ transients and adenylate cyclase activity. Bick RJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1937-44

Reactive oxygen species and calcium homeostasis in cultured human intestinal smooth muscle cells. Bielefeldt K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1439-50

Reduction of extracellular Na+ causes a release of Ca2+ from internal stores in airway epithelial cells. Boitano S, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1189-97

Regulation of taurocholate and ursodeoxycholate uptake in hamster hepatocytes by Ca(2+)-mobilizing agents. Bouscarel B, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1084-95

Calcium removal kinetics of the sarcoplasmic reticulum ATPase in skeletal muscle. Burmeister Getz EE, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1087-98

Effects of osteoclastic resorption on bone surface ion composition. Bushinsky DA, et al. **Am J Physiol** 1996 Oct; 271(4 Pt 1):C1025-31

Myosin heavy chain turnover in cultured neonatal rat heart cells: effects of [Ca2+]i and contractile activity. Byron KL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C01447-56

Modulation of hormone-induced calcium oscillations by intracellular pH in rat hepatocytes. Chatton JY, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G954-61

Calcium sparks and [Ca2+]i waves in cardiac myocytes. Cheng H, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C148-59

Role of intracellular calcium and metabolites in low-frequency fatigue of mouse skeletal muscle. Chin ER, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C550-9

Palmitoyl-CoA potentiates the Ca2+ release elicited by cyclic ADP-ribose. Chini EN, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C530-7

CFTR is required for cAMP inhibition of intestinal Na+ absorption in a cystic fibrosis mouse model. Clarke LL, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G259-67

Cholinergic modulation of the Ca2+ response to bradykinin in neuroblastoma cells. Coggan JS, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C612-7

Where is the "inverting factor" in hormone secretion from parathyroid cells? Cohen Y, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 1):E631-7

Ca2+ permeation through Na+ channels in guinea pig ventricular myocytes. Cole WC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H128-37

Calcium homeostasis in cardiomyocytes isolated from heat-shocked rats. Cornelussen RN, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1938-46

Changes in angiotensin II receptor density and calcium handling during proliferation in SHR aortic myocytes.

Côrtes SF, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2330–8

Arachidonic acid enhances contraction and intracellular Ca2+ transients in individual rat ventricular myocytes. Damron DS, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H350–9

Calcium and mechanotransduction of the myogenic response. D'Angelo G, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H175–82

Integrin–mediated reduction in vascular smooth muscle [Ca2+]i induced by RGD–containing peptide. D'Angelo G, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H2065–70

Steady–state twitch Ca2+ fluxes and cytosolic Ca2+ buffering in rabbit ventricular myocytes. Delbridge LM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C192–9

Cardiac myocyte volume, Ca2+ fluxes, and sarcoplasmic reticulum loading in pressure–overload hypertrophy. Delbridge LM, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2425–35

A voltage–operable current is involved in Ca2+ entry in human lymphocytes whereas ICRAC has no apparent role. Densmore JJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1494–503

Modulation of Cl– secretion by benzimidazolones. I. Direct activation of a Ca(2+)–dependent K+ channel. Devor DC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L775–84

Mechanism of vasopressin–induced increase in intracellular Ca2+ in LLC–PK1 porcine kidney cells. Dibas AI, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C810–7

Rapid effects of steroid hormones on free intracellular calcium in T84 colonic epithelial cells. Doolan CM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1935–41

Actions of sulfhydryl reagents on single ryanodine receptor Ca(2+)–release channels from sheep myocardium. Eager KR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1908–18

SR Ca2+ pump heterogeneity in coronary artery: free radicals and IP3–sensitive and –insensitive pools. Elmoselhi AB, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1652–9

Calcium is permeable through a maitotoxin–activated nonselective cation channel in mouse L cells. Estacion M, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1145–52

Muscarinic activation and calcium permeation of nonselective cation currents in airway myocytes. Fleischmann BK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C341–9

Effects of extracellular ATP on ion transport and [Ca2+]i in Mongolian gerbil middle ear epithelium. Furukawa M, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C827–36

No evidence for a role of reverse Na(+)–Ca2+ exchange in insulin release from mouse pancreatic islets. Garcia–Barrado MJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E426–33

Growth hormone regulates cytosolic free calcium in rat fat cells by maintaining L–type calcium channels. Gaur S, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1478–84

Growth hormone increases calcium uptake in rat fat cells by a mechanism dependent on protein kinase C. Gaur S, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1485–92

Effects of TNF–alpha on [Ca2+]i and contractility in isolated adult rabbit ventricular myocytes. Goldhaber JI, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1449–55

High permeation of L–type Ca2+ channels at physiological [Ca2+]: homogeneity and dependence on the alpha 1–subunit. Gollasch M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C842–50

Extracellular Ca2+ directly regulates tight junctional permeability in the human cervical cell line CaSki. Gorodeski GI, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C511–24

Ca2+ sequestration as a determinant of chaos and mixed–mode dynamics in agonist–induced vasomotion. Griffith TM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1696–709

Measurement of mitochondrial calcium in single living cardiomyocytes by selective removal of cytosolic indo 1. Griffiths EJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C37–44

Effect of extracellular ATP on cytosolic Ca2+ concentration in rat pulmonary artery myocytes. Guibert C, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):L450–8

Intracellular calcium responses in CF/T43 cells: calcium pools and influx pathways. Harris RA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L363–73

Effect of nitric oxide synthase inhibitors on basal microvessel permeability and endothelial cell [Ca2+]i. He P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H747–55

Ca2+ entry through conductive pathway modulates receptor–mediated increase in microvessel permeability. He P, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2377–87

Effect of nitric oxide synthase inhibitors on endothelial [Ca2+]i and microvessel permeability. He P, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H176–85

Morphological heterogeneity of renal glomerular arterioles and distinct [Ca2+]i responses to ANG II. Helou CM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F84–96

Inhibition by external Cd2+ of Na/Ca exchange and L–type Ca channel in rabbit ventricular myocytes. Hobai IA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2164–72

Mechanisms of zinc uptake in gills of freshwater rainbow trout: interplay with calcium transport. Hogstrand C, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1141–7

Calcium handling by sarcoplasmic reticulum of neonatal swine cardiac myocytes. Hohl CM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H192–9

Transient Ca2+ overload alters Ca2+ handling in rat cardiomyocytes: effects on shortening and relaxation. Holt E, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H573–82

A critical evaluation of resting intracellular free calcium regulation in dystrophic mdx muscle. Hopf FW, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1325–39

Effect of cocaine and methylecgonidine on intracellular Ca2+ and myocardial contraction in cardiac myocytes. Huang L, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H893–901

Extracellular ATP modulates [Ca2+]i in retinoic acid–treated embryonic chondrocytes. Hung CT, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1611–7

Regulation of vascular smooth muscle cell proliferation by plasma membrane Ca(2+)–ATPase. Husain M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1947–59

Kupffer cells contain a glycine–gated chloride channel. Ikejima K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1581–6

Characteristics of Ca2+ release for activation of K+ current and contractile system in some smooth muscles. Imaizumi Y, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C772–82

Regulation of [Ca2+]i in canine airway smooth muscle by Ca(2+)–ATPase and Na+/Ca2+ exchange mechanisms. Janssen LJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L322–30

Uncontrolled sarcomere shortening increases intracellular Ca2+ transient in rat cardiac trabeculae. Janssen PM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1892–7

A volume–sensitive, IP3–insensitive Ca2+ store in vascular endothelial cells. Jena M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C316–22

Purinergic–mediated inhibition of Na+–K+–ATPase in proximal tubule cells: elevated cytosolic Ca2+ is not required. Jin W, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1169–77

Modulation of Ca2+ transients and tension by intracellular EGTA in intact frog muscle fibers. Johnson JD, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1437–44

Ca2+ handling by rat myocardium exposed to ATP solutions of different [Ca2+] and Ca2+ buffering capacity. Kabbara AA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1347–57

Role of ryanodine receptor channels in Ca2+ oscillations of porcine tracheal smooth muscle. Kannan MS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L659–64

Nitric oxide inhibits calcium release from sarcoplasmic reticulum of porcine tracheal smooth muscle cells. Kannan MS, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L1–7

Cyclic ADP–ribose stimulates sarcoplasmic reticulum calcium release in porcine coronary artery smooth muscle. Kannan MS, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H801–6

Role of cytosolic Ca2+ and protein kinase C in developing myogenic contraction in isolated rat small arteries. Karibe A, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1165–72

Ca2+ flux in human placental trophoblasts. Karl PI, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1776–80

Agouti regulation of intracellular calcium: role of melanocortin receptors. Kim JH, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E379–84

Caffeine– and ryanodine–sensitive Ca2+ stores in cultured guinea pig myenteric neurons. Kimball BC, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G594–603

Effect of oxidative stress on cellular functions and cytosolic free calcium of rat pancreatic acinar cells. Klonowski–Stumpe H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1489–98

Modulation of Ca2+ current in canine colonic myocytes by cyclic nucleotide–dependent mechanisms. Koh SD, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C794–803

Length dependence of Ca(2+)–tension relationship in aequorin–injected ferret papillary muscles. Komukai K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1068–74

Inhibition of Na+ and Ca2+ reabsorption by P2u purinoceptors requires PKC but not Ca2+ signaling. Koster HP, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F53–60

Survival of metabolically inhibited ventricular myocytes is enhanced by inhibition of rigor and SR Ca2+ cycling. Koyama T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H643–50

Effects of energy limitation on Ca2+ and K+ homeostasis in anoxia–tolerant and anoxia–intolerant hepatocytes. Krumschnabel G, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R307–16

Regulation of M–like K+ current, IKx, by Ca(2+)–dependent phosphorylation in rod photoreceptors. Kurennyi DE, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1844–53

Phospholipase D is activated by G protein and not by calcium ions in vascular smooth muscle. LaBelle EF, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1031–7

Altered Ca2+ handling in ventricular myocytes isolated from diabetic rats. Lagadic–Gossmann D, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1529–37

cADP–ribose releases Ca2+ from cardiac sarcoplasmic reticulum independently of ryanodine receptor. Lahouratate P, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1082–9

Agonist– and CPA–induced elevation of cytoplasmic free Ca2+ in intact valvular endothelium from rabbits. Li L, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H837–48

1,25 (OH)2D3 enhances PTH–induced Ca2+ transients in preosteoblasts by activating L–type Ca2+ channels. Li W, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E599–605

Endocytosis and Ca2+ are required for endotoxin–stimulated TNF–alpha release by rat Kupffer cells. Lichtman SN, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G920–8

Ca2+ uptake by cardiac sarcoplasmic reticulum at low temperature in rat and ground squirrel. Liu B, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1121–7

Calcium transients and calcium homeostasis in adult mouse fast–twitch skeletal muscle fibers in culture. Liu Y, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1919–27

Different contributions of L– and Q–type Ca2+ channels to Ca2+ signals and secretion in chromaffin cell subtypes. Lomax RB, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C476–84

Long–term GABAA receptor activation increases [Ca2+]i in single lactotrophs. Lorsignol A, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E793–801

Angiotensin II activation of Ca(2+)–permeant nonselective cation channels in rat adrenal glomerulosa cells. Lotshaw DP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1705–15

Expression of CFTR controls cAMP–dependent activation of epithelial K+ currents. Loussouarn G, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1565–73

Muscarinic inhibition of adenylyl cyclase regulates intracellular calcium in single airway smooth muscle cells. Madison JM, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L208–14

Interferon–alpha downregulates expression of the oxytocin receptor in cultured human myometrial cells. Maggi M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E840–6

Simultaneous measurement of intracellular pH and Ca2+ in insulin–secreting cells by spectral imaging microscopy. Martínez–Zaguilán R, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1438–46

Cholinergic agonists increase phosphoinositide metabolism and cell calcium in isolated rat renal proximal tubule. Meneton P, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F382–90

In situ visualization of spontaneous calcium waves within perfused whole rat heart by confocal imaging. Minamikawa T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H236–43

Induction of GLUT–1 mRNA in response to inhibition of oxidative phosphorylation: role of increased [Ca2+]i. Mitani Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C235–42

Ca2+ release mechanism of primate drug–induced coronary vasospasm. Miyagawa K, et al. **Am J Physiol** 1997 Jun; 272(6 Pt 2):H2645–54

Attenuation of postischemic reperfusion injury is related to prevention of [Ca2+]m overload in rat hearts. Miyamae M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2145–53

Redistribution of intracellular Ca2+ stores after beta–adrenergic stimulation of rat tail artery SMC. Miyashita Y, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H244–55

Endurance training does not affect intrinsic calcium current characteristics in rat myocardium. Mokelke EA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1193–7

Calcium chelators enhance 45Ca accumulation in permeablized synaptosomes and in microsomes. Moore JE, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C628–35

Mitochondrial calcium content in isolated perfused heart: effects of inotropic stimulation. Moravec CS, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1432–9

Annexin VI modulates Ca2+ and K+ conductances of spinal cord and dorsal root ganglion neurons. Naciff JM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C2004–15

Bovine pancreatic duct cells express cAMP– and Ca(2+)–activated apical membrane Cl– conductances. al–Nakkash L, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G204–16

Response of Ca(2+)–loaded, depolarized guinea pig myocytes to critically timed premature stimulations. Nordin C. **Am J Physiol** 1996 Feb;270(2 Pt 2):H447–65

Effect of cardiac neural crest ablation on contractile force and calcium uptake and release in chick heart. Nosek TM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1464–71

Modulation of frog skeletal muscle Ca2+ release channel gating by anion channel blockers. Oba T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C819–24

Confocal imaging analysis of ATP–induced Ca2+ response in individual endothelial cells of the artery in situ. Ohata H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1980–7

Effects of adenosine analogues on tension and cytosolic Ca2+ in porcine coronary artery. Olanrewaju HA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H134–41

Osmo–mechanically sensitive phosphatidylinositol signaling regulates a Ca2+ influx channel in renal epithelial cells. O'Neil RG, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F120–8

Effect of the organic Ca2+ channel blocker D–600 on sarcoplasmic reticulum Ca2+ uptake in skeletal muscle. Ortega A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C310–7

Reduced Mg2+ inhibition of Ca2+ release in muscle fibers of pigs susceptible to malignant hyperthermia. Owen VJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C203–11

Functional evidence for a Ca2+/polyvalent cation sensor in the mouse thick ascending limb. Paulais M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F1052–60

Nitric oxide inhibits ACh–induced intracellular calcium oscillations in porcine tracheal smooth muscle. Prakash YS,

et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L588–96
Temperature and relative contributions of Ca transport systems in cardiac myocyte relaxation. Puglisi JL, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1772–8
Cytosolic [Ca2+], [Na+], and pH in guinea pig ventricular myocytes exposed to anoxia and reoxygenation. Ralenkotter L, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2679–85
Localization of the extracellular Ca(2+)-sensing receptor and PTH/PTHrP receptor in rat kidney. Riccardi D, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F951–6
Experimental esophagitis affects intracellular calcium stores in the cat lower esophageal sphincter. Rich H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1523–9
Xanthine affects [Ca2+]i and contractile responses of ventricular cardiocytes to electrical stimulation. Rohn TT, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C909–17
Role for protein phosphatase in the regulation of Ca2+ influx in parotid gland acinar cells. Sakai T, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C284–94
Muscarinic signaling in ciliated tracheal epithelial cells: dual effects on Ca2+ and ciliary beating. Salathe M, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L301–10
Functional identification of a sarcolemmal chloride channel from bovine tracheal smooth muscle. Salvail D, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1716–24
A dihydropyridine-sensitive T-type Ca2+ current is the main Ca2+ current carrier in mouse primary spermatocytes. Santi CM, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 1):C1583–93
Effects of [Ca2+]i, SR Ca2+ load, and rest on Ca2+ spark frequency in ventricular myocytes. Satoh H, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H657–68
Nongenomic effects of aldosterone on intracellular calcium in porcine endothelial cells. Schneider M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E616–20
Cell volume regulation by the mouse zygote: mechanism of recovery from a volume increase. Séguin DG, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1854–61
Calcium entry activated by store depletion in coronary endothelium is promoted by tyrosine phosphorylation. Sharma NR, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H267–74
Pertussis toxin, but not tyrosine kinase inhibitors, abolishes effects of U-50488H on [Ca2+]i in myocytes. Sheng JZ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C560–4
Intracellular calcium stores in isolated tracheal smooth muscle cells. Sims SM, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L300–9
Preclinical screening of the applicability of strontium as a marker for intestinal calcium absorption. Sips AJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E422–8
Parathyroid hormone-induced calcium efflux from cultured bone is mediated by protein kinase C translocation. Sprague SM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1139–46
Cytosolic Ca2+ and adenylyl cyclase responses in phenotypically distinct pulmonary endothelial cells. Stevens T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L51–9
ATP activates K and Cl channels via purinoceptor-mediated release of Ca2+ in human coronary artery smooth muscle. Strøbaek D, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1463–71
ATP activates a cation conductance and Ca(2+)-dependent Cl- conductance in Hensen cells of guinea pig cochlea. Sugasawa M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1817–27
Mechanisms of inactivation of L-type calcium channels in human atrial myocytes. Sun H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1625–35
Enhancement of Ca2+ currents by GHRH and its relation to PKA and [Ca2+]i in human GH-secreting adenoma cells. Takei T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E801–7
Effect of preconditioning on ryanodine-sensitive Ca2+ release from sarcoplasmic reticulum of rat heart. Tani M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H876–81
Effects of Mg2+ on Ca2+ waves and Ca2+ transients of rat ventricular myocytes. Terada H, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H907–14
Reloading of Ca(2+)-depleted sarcoplasmic reticulum during rest in guinea pig ventricular myocytes. Terracciano CM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1814–22
Effects of cAMP on serotonin evoked calcium transients in cultured rat airway smooth muscle cells. Tolloczko B, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L865–71
Modulation of Ca2+ transients in neonatal and adult rat cardiomyocytes by angiotensin II and endothelin-1. Touyz RM, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H857–68
Inhibition of oxidative phosphorylation, vascular tone, and [Ca2+]i in the perfused rat tail artery. Tran NN, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C834–42
F-actin disruption attenuates agonist-induced [Ca2+], myosin phosphorylation, and force in smooth muscle. Tseng S, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1960–7
Amelioration of ischemic calcium overload correlates with high-energy phosphates in senescent myocardium. Tsukube T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H418–25
Alterations in sarcoplasmic reticulum calcium-storing proteins in pressure-overload cardiac hypertrophy. Tsutsui H, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H168–75
Epidermal growth factor inhibits Ca(2+)-dependent Cl- transport in T84 human colonic epithelial cells. Uribe JM, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C914–22
Hypoxia enhances agonist-induced pulmonary arterial contraction by increasing calcium sequestration. Vandier C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1075–81
Sarcolemmal Ca influx through L-type Ca channels in ventricular myocytes of a teleost fish. Vornanen M. **Am J Physiol** 1997 May;272(5 Pt 2):R1432–40
Endothelial Ca2+ in afferent arterioles during myogenic activity. Wagner AJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F170–8
Caffeine- and carbachol-induced Cl- and cation currents in single opossum esophageal circular muscle cells. Wang Q, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1725–34
Heterologous desensitization of smooth muscle to K+ depolarization: retarded stimulus-[Ca2+]i coupling. Wardle RL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1810–20
Effects of the intraluminal Ca load on the kinetics of 45Ca uptake and efflux in brain microsomes. Wells KM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1472–9
Regulation of nitric oxide synthesis by oxygen in vascular endothelial cells. Whorton AR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1161–6
A mathematical model of cytosolic calcium dynamics in human umbilical vein endothelial cells. Wiesner TF, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1556–69
Effect of ablation of phospholamban on dynamics of cardiac myocyte contraction and intracellular Ca2+. Wolska BM, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C391–7
Alterations in reactive oxygen, pH, and calcium in astrocytoma cells during lethal injury. Wu Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C115–24
Endothelin-1-evoked arachidonic acid release: a Ca(2+)-dependent pathway. Wu-Wong JR, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C869–77
Positive charge modifications alter the ability of XIP to inhibit the plasma membrane calcium pump. Xu W, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C736–41
Phosphatidic acid increases intracellular free Ca2+ and cardiac contractile force. Xu YJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H651–9
Mechanism of [Ca2+]i increase by extracellular ATP in isolated rabbit renal proximal tubules. Yamada H, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1096–104
Constancy and variability of contractile efficiency as a function of calcium and cross-bridge kinetics: simulation. Yamaguchi H, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1501–8
Effects of fluid flow on intracellular calcium in bovine articular chondrocytes. Yellowley CE, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C30–6
[Ca2+]i in rat afferent arteriole during constriction measured with confocal fluorescence microscopy. Yip KP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F1004–11
Buffering of plasmalemmal Ca2+ current by sarcoplasmic reticulum of guinea pig urinary bladder myocytes. Yoshikawa A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C833–41
Nitric oxide inhibits serotonin-induced calcium release in pulmonary artery smooth muscle cells. Yuan XJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L44–50
Regulation of extracellular calcium sensing in rat osteoclasts by femtomolar calcitonin concentrations. Zaidi M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F637–44
Carnosine is a novel peptide modulator of intracellular calcium and contractility in cardiac cells. Zaloga GP, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H462–8
Pulmonary artery smooth muscle cell [Ca2+]i and contraction: responses to diphenyleneiodonium and hypoxia. Zhang F, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L603–11
Regulated calcium channel in apical membranes renal proximal tubule cells. Zhang MI, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1757–64
Na+/Ca2+ exchange currents and SR Ca2+ contents in postinfarction myocytes. Zhang XQ, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1800–7
Immunoglobulin light chain alters mesangial cell calcium homeostasis. Zhu L, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F319–24
Angiotensin II-receptor stimulation of cytosolic calcium concentration in cultured renal resistance arterioles. Zhu Z, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1239–47
Effects of purine nucleotides and nucleoside on cytosolic calcium levels in rat tracheal smooth muscle cells. Michoud MC, et al. **Am J Respir Cell Mol Biol** 1997 Feb; 16(2):199–205
Nitric oxide synthase inhibition negates septic-induced alterations in cytoplasmic calcium homeostasis and membrane dynamics. Ismail NH, et al. **Am Surg** 1997 Jan; 63(1):20–3
Measurement of intracellular calcium in cell populations loaded with aequorin: neurokinin-1 responses in U373MG cells. Hedley L, et al. **Anal Biochem** 1996 May 1; 236(2):270–4
An optical method for evaluating ion selectivity for calcium signaling pathways in the cell. Ozawa T, et al. **Anal Chem** 1997 Aug 1;69(15):3081–5
Calcium concentration-dependent mechanisms through which ketamine relaxes canine airway smooth muscle. Pabelick CM, et al. **Anesthesiology** 1997 May;86(5):1104–11
Volatile anesthetics affect calcium mobilization in bovine endothelial cells. Pajewski TN, et al. **Anesthesiology** 1996 Nov;85(5):1147–56
Response to: possible contribution of transmembrane Ca2+ influx to adenylate cyclase-mediated NO-cGMP relaxation in rat aorta [letter] Wu SN. **Anesthesiology** 1997 Sep; 87(3):712–3
Effects of nisoldipine on cytosolic calcium, platelet aggregation, and coagulation/fibrinolysis in patients with coronary artery disease. Fujinishi A, et al. **Angiology** 1997 Jun;48(6):515–21
Effects of iron complexes on brain calcium homeostasis. Anghileri LJ, et al. **Ann Clin Lab Sci** 1997 May-Jun; 27(3):210–5
Effects of cadmium on cellular calcium and proto-oncogene expression. Hechtenberg S, et al. **Ann Clin Lab Sci** 1996 Nov-Dec;26(6):512–21
Ion channels and calcium signaling in mast cells. Hoth M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:198–209 (49 ref.)
Effects of 9-methyl-7-bromoeudistomin D (MBED), a powerful Ca2+ releaser, on smooth muscles of the guinea pig. Imaizumi Y, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:546–9
Diversity of glutamate receptor subtypes responsible for increase in [Ca2+]i in hippocampal cells. Kudo Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:509–10
Endothelin induces phosphoinositide metabolite-dependent cellular responses in NG108-15 hybrid cells. Noda M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:482–5
M3 receptor mobilizes intracellular calcium in rat stomach fundus. Smaili SS, et al. **Ann N Y Acad Sci** 1997 May 30; 812:200–2
Dihydropyridine-sensitive calcium current mediates neurotransmitter release from retinal bipolar cells. Tachibana M, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:359–61
Regulation of Ca2+ mobilization by beta-adrenergic receptor in Jurkat human leukemia T-cells. Takemura H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:489–91
Desensitization of nicotine receptor through CGRP-enhanced non-contractile Ca2+ in neuromuscular synapse. Tsuneki H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:435–8
X-linked vacuolated myopathy: membrane attack complex deposition on muscle fiber membranes with calcium accumulation on sarcolemma. Louboutin JP, et al. **Ann Neurol** 1997 Jan;41(1):117–20
Ultrastructural evidence for altered calcium in motor nerve terminals in amyotropic lateral sclerosis. Siklós L, et al. **Ann Neurol** 1996 Feb;39(2):203–16
Calcium-permeable alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionic acid receptors: a molecular determinant of selective vulnerability in amyotrophic lateral sclerosis. Williams TL, et al. **Ann Neurol** 1997 Aug;42(2):200–7
Supplementation of a cereal-milk formula with haem iron palliates the adverse effects of iron deficiency on calcium and magnesium metabolism in rats. Pallarés I, et al. **Ann Nutr Metab** 1996;40(2):81–90
Calcium regulation and bone mass loss after total gastrectomy in pigs. Maier GW, et al. **Ann Surg** 1997 Feb;225(2):181–92
Adenosine and K(+)-induced Ca2+ loading [letter; comment] Cheng TO. **Ann Thorac Surg** 1997 Aug; 64(2):588–9. Comment on: Ann Thorac Surg 1997 Jan;63(1):153–61.
Adenosine prevents hyperkalemia-induced calcium loading in cardiac cells: relevance for cardioplegia [see comments] Jovanović A, et al. **Ann Thorac Surg** 1997 Jan;63(1):153–61 . Comment in: Ann Thorac Surg 1997 Aug;64(2):588–9.
Calcification in cardiac bioprostheses [letter; comment] Schroll A. **Ann Thorac Surg** 1997 May;63(5):1514–5. Comment on: Ann Thorac Surg 1995 Aug;60(2 Suppl):S332–8.
Neurotransmitter release. Matthews G. **Annu Rev Neurosci** 1996;19:219–33 (71 ref.)
Human breast cancer cell growth inhibition and deregulation of [Ca2+]i by estradiol. Jain PT, et al. **Anticancer Drugs** 1997 Mar;8(3):283–7
Tamoxifen induces deregulation of [Ca2+] in human breast cancer cells. Jain PT, et al. **Anticancer Res** 1997 Mar-Apr; 17(2A):1167–74
Ca2+ mobilization during cell death induction by sodium 5, 6-benzylidene-L-ascorbate. Takahashi H, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2629–34
Characteristics of calcium ion influx induced by human follicular fluid in individual human sperm. Shiomi H, et al. **Arch Androl** 1996 Sep-Oct;37(2):79–86
Ca2+ activation of wheat peroxidase: a possible physiological mechanism of control. Converso DA, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):59–65
Rapid kinetic studies of SH oxidation-induced calcium release from sarcoplasmic reticulum vesicles. Donoso P, et al. **Arch Biochem Biophys** 1997 May 15;341(2):295–9
Stimulation of calcium influx and platelet activation by canatoxin: methoxyverapamil inhibition and downregulation by cGMP. Ghazaleh FA, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):362–7
Crosstalk between the cAMP and inositol trisphosphate-signalling pathways in pancreatic beta-cells. Liu YJ, et al. **Arch Biochem Biophys** 1996 Oct 15; 334(2):295–302
Genistein sensitivity of calcium transport pathways in serotonin-activated vascular smooth muscle cells. Nelson

SR, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):65–72
Divergent effects of ruthenium red and ryanodine on Ca2+/calmodulin-dependent phosphorylation of the Ca2+ release channel (ryanodine receptor) in cardiac sarcoplasmic reticulum. Netticadan T, et al.
Arch Biochem Biophys 1996 Sep 15;333(2):368–76
delta-Aminolevulinic acid-induced synaptosomal Ca2+ uptake and mitochondrial permeabilization. Penatti CA, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):53–60
Kinetics of calcium release from manganese peroxidase during thermal inactivation. Timofeevski SL, et al.
Arch Biochem Biophys 1997 Jun 1;342(1):169–75
Docking of verapamil in a synthetic Ca2+ channel: formation of a ternary complex involving Ca2+ ions. Zhorov BS, et al. **Arch Biochem Biophys** 1997 May 15; 341(2):238–44
Immunoreactivities for calcium signaling components and neural-like properties of a Colorado potato beetle cell line. Sheppard CA, et al. **Arch Insect Biochem Physiol** 1996; 33(3–4):197–209
Effects of mefloquine on Ca2+ uptake and release by dog brain microsomes. Lee HS, et al.
Arch Int Pharmacodyn Ther 1996 May–Jun;331(3):221–31
Age-related alteration of alpha(1)-adrenoceptor mechanisms and Ca2+ inhibitory effects of isradipine. Satoh M, et al.
Arch Int Pharmacodyn Ther 1995 Sep–Oct;330(2):190–205
Intracellular free calcium and its modulation. Traina G.
Arch Ital Biol 1996 Oct;134(4):323–39 (70 ref.)
Synthesis of 2-oxacortexone and its effect on Ca2+ uptake in bovine spermatozoa. Frimer AA, et al.
Arch Pharm (Weinheim) 1997 May;330(5):117–21
Calcium ionophore (A23187) differential effect on red cells from pre and postnatal haemopoiesis. Corchs JL, et al.
Arch Physiol Biochem 1996;104(2):148–51
Beta-adrenergic-induced calcium efflux in rat parotid gland. Is mitochondrial Na+/Ca2+ exchange involved? Dreux C, et al. **Arch Physiol Biochem** 1997 Apr;105(2):197–202
Abnormal myocardial calcium handling in the early stage of adriamycin cardiomyopathy. Kapelko VI, et al.
Arch Physiol Biochem 1996;104(2):185–91
In vitro evidence for a Donnan distribution of Mg2+ and Ca2+ by chondroitin sulphate in cartilage. Günther T, et al. **Arch Toxicol** 1997;71(7):471–5
Calcium dynamics in cardiac myocytes as a target of dichloromethane cardiotoxicity. Hoffmann P, et al.
Arch Toxicol 1996;70(3–4):158–63
Inhibition of microsomal and mitochondrial Ca2+-sequestration in rat cerebellum by polychlorinated biphenyl mixtures and congeners. Structure-activity relationships. Kodavanti PR, et al. **Arch Toxicol** 1996; 70(3–4):150–7
Suppression of agonist induced Ca2+ oscillations in cultured hepatocytes by nafenopin: possible involvement of protein kinase C. Leibold E, et al. **Arch Toxicol** 1996;70(3–4):252–5
Parathyroid hormone-related peptide as a local regulator of vascular calcification. Its inhibitory action on in vitro calcification by bovine vascular smooth muscle cells. Jono S, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1135–42
Defective thrombin-induced calcium changes and aggregation of Bernard-Soulier platelets are not associated with deficient moderate-affinity receptors. McNicol A, et al. **Arterioscler Thromb Vasc Biol** 1996 May;16(5):628–32
Lysophosphatidylcholine inhibits receptor-mediated Ca2+ mobilization in intact endothelial cells of rabbit aorta. Miwa Y, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug; 17(8):1561–7
Intracellular calcium mobilization suppresses the TNF-alpha-stimulated synthesis of PAI-1 in human endothelial cells. Indications that calcium acts at a translational level. Peiretti F, et al.
Arterioscler Thromb Vasc Biol 1997 Aug;17(8):1550–60
Intracellular ionized calcium ([Ca++]i) mobilization in platelets from rats receiving atherogenic lipids. Modulation by nifedipine. Saladino CF, et al. **Artery** 1996;22(2):80–92
Influence of mibefradil on Ca2+ influx induced by vasoactive hormones or depletion of intracellular calcium stores. Cheglakov IB, et al. **Arzneimittelforschung** 1997 Mar;47(3):244–7
Normalization of priming solution ionized calcium concentration improves hemodynamic stability of neonates receiving venovenous ECMO [letter; comment] Cheung PY. **ASAIO J** 1996 Nov–Dec;42(6):1033–4. Comment on: ASAIO J 1995 Oct–Dec;41(4):884–8.
Tranilast inhibits contraction and Ca2+ movement of porcine coronary arteries. Ishibashi S, et al.
Atherosclerosis 1997 Apr;130(1–2):113–9
Alteration of lymphocyte membrane phospholipids and intracellular free calcium concentrations in hyperlipidemic subjects. Seres I, et al. **Atherosclerosis** 1996 Apr 5; 121(2):175–83
Augmented Ca2+ influx is involved in the mechanism of enhanced proliferation of cultured vascular smooth muscle cells from spontaneously diabetic Goto-Kakizaki rats. Yoo HJ, et al. **Atherosclerosis** 1997 Jun;131(2):167–75
In vitro calcium ion turnover in otoconia of the guinea pig. Takumida M, et al. **Auris Nasus Larynx** 1997 Apr; 24(2):119–24
Intracellular ionic changes induced by bullous pemphigoid IgG subclasses. Suzuki M, et al. **Autoimmunity** 1996; 23(3):181–97
Bone biology. Ng KW, et al.
Baillieres Clin Endocrinol Metab 1997 Apr;11(1):1–22 (104 ref.)
Ca transport during contraction and relaxation in mammalian ventricular muscle. Bers DM. **Basic Res Cardiol** 1997;92 Suppl 1:1–10 (42 ref.)
Effects of trimetazidine on the calcium transport and oxidative phosphorylation of isolated rat heart mitochondria. Guarnieri C, et al. **Basic Res Cardiol** 1997 Apr;92(2):90–5
Calcium handling proteins in the failing human heart. Hasenfuss G, et al. **Basic Res Cardiol** 1997;92 Suppl 1:87–93 (50 ref.)
Calcium cycling proteins and force-frequency relationship in heart failure. Hasenfuss G, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:17–22 (31 ref.)
Changes in calcium handling in atrophic heterotopically isotransplanted rat hearts. Kolář F, et al.
Basic Res Cardiol 1995 Nov–Dec;90(6):475–81
5-HT2B receptor signaling in the rat stomach fundus: dependence on calcium influx, calcium release and protein kinase C. Cox DA, et al. **Behav Brain Res** 1996; 73(1–2):289–92
Ca2+ mobilizing agents mimic serotonin 5-HT2A facilitation of N-methyl-D-aspartate depolarization. Neuman RS, et al. **Behav Brain Res** 1996;73(1–2):273–5
Cyclosporin A-sensitive calcium signaling represses NFkappaB activation in human bronchial epithelial cells and enhances NFkappaB activation in Jurkat T-cells. Aoki Y, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):424–31
Gene regulation by nuclear and cytoplasmic calcium signals. Bading H, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):541–3 (34 ref.)
Ca2+ oscillations in plant cells: initiation by rapid elevation in cytosolic free Ca2+ levels. Calder GM, et al.
Biochem Biophys Res Commun 1997 May 29;234(3):690–4
Role of Na+/Ca2+ exchanger in preventing Na+ overload and hepatocyte injury: opposite effects of extracellular and intracellular Ca2+ chelation. Carini R, et al.
Biochem Biophys Res Commun 1997 Mar 6;232(1):107–10
Sphingolipids increase calcium concentration in isolated rat liver nuclei. Catalán RE, et al.
Biochem Biophys Res Commun 1997 Sep 18;238(2):347–50
Expression of extracellular calcium-sensing receptor by human lens epithelial cells. Chattopadhyay N, et al.
Biochem Biophys Res Commun 1997 Apr 28;233(3):801–5
A hyperosmotic stimulus regulates intracellular pH, calcium, and S-100 protein levels in avian chondrocytes. Dascalu A, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):368–73
Alteration of free calcium levels and acylphosphatase muscular isoenzyme in cultured dystrophic skin fibroblasts. Degl'Innocenti D, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):327–30
Perturbation of cellular calcium delays the secretion and alters the glycosylation of thyroglobulin in FRTL-5 cells. Di Jeso B, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):133–6
A test of the hypothesis that ELF magnetic fields affect calcium uptake in rat thymocytes in vitro. Doida Y, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):834–8
Calcium waves in unstimulated left ventricular cardiomyocytes isolated from aged spontaneously hypertensive and normotensive rats. Failli P, et al.
Biochem Biophys Res Commun 1997 Aug 8;237(1):103–6
Localization of a calcium sensitive binding site for gelsolin on actin subdomain I: implication for severing process. Feinberg J, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):61–5
Intracellular calcium rise through L-type calcium channels, as molecular mechanism for prion protein fragment 106–126-induced astroglial proliferation. Florio T, et al.
Biochem Biophys Res Commun 1996 Nov 12;228(2):397–405
Structural and functional characterization of a second subfamily member of the calcium-modulated bovine rod outer segment membrane guanylate cyclase, ROS-GC2. Goraczniak R, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):666–70
Calcium-dependent c-myc proto-oncogene expression and proliferation of Caco-2 cells: a role for a luminal extracellular calcium-sensing receptor. Kállay E, et al.
Biochem Biophys Res Commun 1997 Mar 6;232(1):80–3
The role of chondroitin sulfate chains of urinary trypsin inhibitor in inhibition of LPS-induced increase of cytosolic free Ca2+ in HL60 cells and HUVEC cells. Kanayama N, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):560–4
Caffeine- and inositol 1,4,5-trisphosphate-induced 45Ca2+ releases in the microsomes of tracheal epithelial cells. Kim YK, et al. **Biochem Biophys Res Commun** 1997 Jan 13; 230(2):247–50
The calcium-independent receptor of alpha-latrotoxin is not a neurexin. Krasnoperov VG, et al.
Biochem Biophys Res Commun 1996 Oct 23;227(3):868–75
A putative tetrapeptide antagonist prevents beta-amyloid-induced long-term elevation of [Ca2+]i in rat astrocytes. Laskay G, et al.
Biochem Biophys Res Commun 1997 Jun 27;235(3):479–81
Cooperation between the Fc epsilonR1 and formyl peptide receptor signaling pathways in RBL(FPR) cells: the contribution of receptor-specific Ca2+ mobilization responses. Lee RJ, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):812–9
Role of the heterotrimeric G proteins in stromal-derived factor-1alpha-induced natural killer cell chemotaxis and calcium mobilization. Maghazachi AA.
Biochem Biophys Res Commun 1997 Jul 18;236(2):270–4
Cytosolic Ca2+ gradients in pancreatic islet-cells stimulated by glucose and carbachol. Martin F, et al.
Biochem Biophys Res Commun 1997 Jun 27;235(3):465–8
Presence and comparison of Ca2+ transport activity of annexins I, II, V, and VI in large unilamellar vesicles. Matsuda R, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):499–503
Effect of a cytosolic Ca2+ concentration ramp on InsP3-induced Ca2+ release in A7r5 smooth-muscle cells and in EBTr cells from tracheal mucosa. Missiaen L, et al. **Biochem Biophys Res Commun** 1997 Aug 18; 237(2):354–8
Depletion of [Ca2+]i inhibits hypoxia-induced vascular permeability factor (vascular endothelial growth factor) gene expression. Mukhopadhyay D, et al.
Biochem Biophys Res Commun 1996 Dec 24;229(3):733–8
Overexpressed syntaxin 1A/HPC-1 inhibits insulin secretion via a regulated pathway, but does not influence glucose metabolism and intracellular Ca2+ in insulinoma cell line beta TC3 cells. Nagamatsu S, et al.
Biochem Biophys Res Commun 1997 Feb 3;231(1):89–93
Citrulline-argininosuccinate-arginine cycle coupled to Ca2+-signaling in rat pancreatic beta-cells. Nakata M, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):619–24
Mutation in the calcium-binding domain of the mitochondrial glycerophosphate dehydrogenase gene in a family of diabetic subjects. Novials A, et al.
Biochem Biophys Res Commun 1997 Feb 24;231(3):570–2
Genetic linkage of the sarco(endo)plasmic reticulum Ca(2+)-dependent ATPase II gene to intracellular Ca2+ concentration in the spontaneously hypertensive rat. Ohno Y, et al. **Biochem Biophys Res Commun** 1996 Oct 23; 227(3):789–93
Interaction of both the C2A and C2B domains of rabphilin3 with Ca2+ and phospholipid. Oishi H, et al.
Biochem Biophys Res Commun 1996 Dec 13;229(2):498–503
Temporal and spatial resolution of Ca2+ release and influx in human neutrophils using a novel confocal laser scanning mode. Pettit EJ, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):109–13
2,3-Butanedione 2-monoxime (BDM) induces calcium release from canine cardiac sarcoplasmic reticulum. Phillips RM, et al. **Biochem Biophys Res Commun** 1996 Dec 4; 229(1):154–7
Calcium-dependent electrophysiological alterations in hypertrophied rat cardiomyocytes. Ruocco C, et al.
Biochem Biophys Res Commun 1996 Dec 13;229(2):425–9
BDNF gene can Be activated by Ca2+ signals without involvement of de novo AP-1 synthesis. Sano K, et al.
Biochem Biophys Res Commun 1996 Dec 24;229(3):788–93
Sphingosine-1-phosphate mobilizes intracellular calcium and activates transcription factor NF-kappa B in U937 cells. Shatrov VA, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):121–4
Inhibition by 2-arachidonoylglycerol, a novel type of possible neuromodulator, of the depolarization-induced increase in intracellular free calcium in neuroblastoma x glioma hybrid NG108-15 cells. Sugiura T, et al.
Biochem Biophys Res Commun 1997 Apr 7;233(1):207–10
2-Arachidonoylglycerol, a putative endogenous cannabinoid receptor ligand, induces rapid, transient elevation of intracellular free Ca2+ in neuroblastoma x glioma hybrid NG108-15 cells. Sugiura T, et al.
Biochem Biophys Res Commun 1996 Dec 4;229(1):58–64
Nuclear and cytosolic calcium signaling induced by extracellular ATP in rat kidney inner medullary collecting duct cells. Suko Y, et al.
Biochem Biophys Res Commun 1997 May 8;234(1):224–9
Facilitation of Ca2+ action potential frequency by a small G protein Rab3A in rat pituitary GH3 cells. Suzuki N, et al. **Biochem Biophys Res Commun** 1997 Jun 18; 235(2):331–5
Roles of inhibitors of myosin light chain kinase and tyrosine kinase on cation influx in agonist-stimulated endothelial cells. Takahashi R, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):657–62
Ca2+-ATPase inhibitors and Ca2+-ionophore induce osteoclast-like cell formation in the cocultures of mouse bone marrow cells and calvarial cells. Takami M, et al.
Biochem Biophys Res Commun 1997 Aug 8;237(1):111–5
Two-dimensional millisecond analysis of intracellular Ca2+ sparks in cardiac myocytes by rapid scanning confocal microscopy: increase in amplitude by isoproterenol. Tanaka H, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):413–8
Ser-27, Tyr-10 and Tyr-7 in the alpha-chain of pig stomach H+,K(+)-ATPase as Ca(2+)-dependent phosphorylatable sites by intrinsic and extrinsic protein kinases. Togawa K, et al.
Biochem Biophys Res Commun 1996 Oct 23;227(3):810–5
Selective loading of Rhod 2 into mitochondria shows mitochondrial Ca2+ transients during the contractile cycle in adult rabbit cardiac myocytes. Trollinger DR, et al.
Biochem Biophys Res Commun 1997 Jul 30;236(3):738–42
Src kinase pathways in extracellular Ca(2+)-dependent pancreatic enzyme secretion. Tsunoda Y, et al.

Biochem Biophys Res Commun 1996 Oct 23;227(3):876–84
Natural occurrence of 2'-phospho-cyclic ADP ribose in mammalian tissues. Vu CQ, et al.
Biochem Biophys Res Commun 1997 Jul 30;236(3):723–6
Molecular cloning and characterization of a novel human receptor protein tyrosine phosphatase gene, hPTP-J: down-regulation of gene expression by PMA and calcium ionophore in Jurkat T lymphoma cells. Wang B, et al.
Biochem Biophys Res Commun 1997 Feb 3;231(1):77–81
Inositol 1,4,5-trisphosphate and basal Ca2+ release is affected by the cytoplasmic concentration of Cl- in endothelial cells. Wood PG, et al.
Biochem Biophys Res Commun 1997 Sep 18;238(2):292–6
Beta 1 integrin ligation stimulates tyrosine phosphorylation of phospholipase C gamma 1 and elevates intracellular Ca2+ in pancreatic acinar cells. Wrenn RW, et al.
Biochem Biophys Res Commun 1996 Sep 24;226(3):876–82
Introduction of DNA into rat liver with a hand-held gene gun: distribution of the expressed enzyme, [32P]DNA, and Ca2+ flux. Yoshida Y, et al.
Biochem Biophys Res Commun 1997 May 29;234(3):695–700
Evidence for reduced capacity for Ca2+ removal from the cytosol in submandibular cells of newborn rats. Zhang GH, et al. **Biochem Biophys Res Commun** 1996 Nov 1; 228(1):171–5
Electrical stimulation induces the level of TGF-beta1 mRNA in osteoblastic cells by a mechanism involving calcium/calmodulin pathway. Zhuang H, et al.
Biochem Biophys Res Commun 1997 Aug 18;237(2):225–9
Functional expression of Na-Ca exchanger clones measured with the fluorescent Ca(2+)-indicating dye fluo-3. Schnetkamp PP. **Biochem Cell Biol** 1996;74(4):535–9
Rapid Ca2+ influx induced by the action of dibutylhydroquinone and glucagon in the perfused rat liver. Applegate TL, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):463–7
Interaction of aspartic acid-104 and proline-287 with the active site of m-calpain. Arthur JS, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):535–41
Study of the interactions of cadmium and zinc ions with cellular calcium homoeostasis using 19F-NMR spectroscopy. Benters J, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):793–9
Parallel changes in nuclear and cytosolic calcium in mouse pancreatic beta-cells. Brown GR, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):771–8
Analysis of the endoplasmic reticular Ca2+ requirement for alpha1-antitrypsin processing and transport competence. Cooper GR, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):601–8
Desensitization of P2U receptor in neuronal cell line. Different control by the agonists ATP and UTP, as demonstrated by single-cell Ca2+ responses. Czubayko U, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):215–9
Dual mechanism for cAMP-dependent modulation of Ca2+ signalling in articular chondrocytes. D'Andrea P, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):569–73
Conformational changes in plant Ins(1,4,5)P3 receptor on interaction with different myo-inositol trisphosphates and its effect on Ca2+ release from microsomal fraction and liposomes. Dasgupta S, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):355–60
Ca2+ and protein kinase C-dependent mechanisms involved in gastrin-induced Shc/Grb2 complex formation and P44-mitogen-activated protein kinase activation. Daulhac L, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):383–9
Ectocellular in vitro and in vivo metabolism of cADP-ribose in cerebellum. De Flora A, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):665–71
Chemoattractant-induced respiratory burst: increases in cytosolic Ca2+ concentrations are essential and synergize with a kinetically distinct second signal. Foyouzi-Youssefi R, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):709–18
Fatty acyl-CoA-acyl-CoA-binding protein complexes activate the Ca2+ release channel of skeletal muscle sarcoplasmic reticulum. Fulceri R, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):423–8
Reconstitution of the quinoprotein methanol dehydrogenase from inactive Ca(2+)-free enzyme with Ca2+, Sr2+ or Ba2+. Goodwin MG, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):839–42
Regulation of the thyroid NADPH-dependent H2O2 generator by Ca2+: studies with phenylarsine oxide in thyroid plasma membrane. Gorin Y, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):383–8
Store-activated Ca2+ inflow in Xenopus laevis oocytes: inhibition by primaquine and evaluation of the role of membrane fusion. Gregory RB, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):755–60
Endoplasmic reticulum Ca2+ is important for the proteolytic processing and intracellular transport of proinsulin in the pancreatic beta-cell. Guest PC, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):445–50
3',5'-cyclic guanosine monophosphate (cGMP) potentiates the inositol 1,4,5-trisphosphate-evoked Ca2+ release in guinea-pig hepatocytes. Guihard G, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):849–55
The lysosomal Ca2+ pool in MDCK cells can be released by ins(1,4,5)P3-dependent hormones or thapsigargin but does not activate store-operated Ca2+ entry. Haller T, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):909–12
Bradykinin B2 receptor-induced and inositol tetrakisphosphate-evoked Ca2+ entry is sensitive to a protein tyrosine phosphorylation inhibitor in ras-transformed NIH/3T3 fibroblasts. Hashii M, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):649–56
Thiol oxidation by 2,2'-dithiodipyridine causes a reversible increase in cytoplasmic free Ca2+ concentration in pancreatic beta-cells. Role for inositol 1,4,5-trisphosphate-sensitive Ca2+ stores. Islam MS, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):347–54
Separate upstream and convergent downstream pathways of G-protein- and phorbol ester-mediated Ca2+ sensitization of myosin light chain phosphorylation in smooth muscle. Jensen PE, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):469–75
Recombinant apoaequorin acting as a pseudo-luciferase reports micromolar changes in the endoplasmic reticulum free Ca2+ of intact cells. Kendall JM, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):383–7
Evidence for P2-purinoceptor-mediated uptake of Ca2+ across a fish (Oreochromis mossambicus) intestinal brush border membrane. Klaren PH, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):129–34
Induction of calreticulin expression in HeLa cells by depletion of the endoplasmic reticulum Ca2+ store and inhibition of N-linked glycosylation. Llewellyn DH, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):555–60
An increase in cytosolic Ca2+ delays cAMP oscillations in Dictyostelium cells. Malchow D, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):323–7
The plasma-membrane Ca2+-ATPase of Leishmania donovani is an extrusion pump for Ca2+. Mandal D, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):251–7
Rapid kinetic measurements of 45Ca2+ mobilization reveal that Ins(2,4,5)P3 is a partial agonist at hepatic InsP3 receptors. Marchant JS, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):573–6
Role of Ca2+ and protein kinase C in the receptor-mediated activation of Na+/H+ exchange in isolated liver cells. Martín-Requero A, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):631–6
Evidence for a Ca2+ pool associated with secretory granules in rat submandibular acinar cells. Martinez JR, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):627–34
Involvement of the Ca2+/calmodulin-dependent protein kinase II pathway in the Ca2+-mediated regulation of the capacitative Ca2+ entry in Xenopus oocytes. Matifat F, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):267–72
Effects of thimerosal on the transient kinetics of inositol 1,4,5-trisphosphate-induced Ca2+ release from cerebellar microsomes. Mezna M, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):177–82
Effect of adenine nucleotides on myo-inositol-1,4,5-trisphosphate-induced calcium release. Missiaen L, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):661–6
Slow kinetics of inositol 1,4,5-trisphosphate-induced Ca2+ release: is the release 'quantal' or 'non-quantal'? Missiaen L, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):123–30
Phospholipase C inhibitor, U73122, releases intracellular Ca2+, potentiates Ins(1,4,5)P3-mediated Ca2+ release and directly activates ion channels in mouse pancreatic acinar cells. Mogami H, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):645–51
Ca2+ influx does more than provide releasable Ca2+ to maintain repetitive spiking in human umbilical vein endothelial cells. Morgan AJ, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):505–17
Ca(2+)-independent fusion of synaptic vesicles with phospholipase A2-treated presynaptic membranes in vitro. Nishio H, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):981–7
Calmodulin sensitivity of the sarcoplasmic reticulum ryanodine receptor from normal and malignant-hyperthermia-susceptible muscle. O'Driscoll S, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):421–6
Role of lysine, tryptophan and calcium in the beta-elimination activity of a low-molecular-mass pectate lyase from Fusarium moniliformae. Rao MN, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):159–64
Cytoplasmic Ca2+ signalling and reduction of mitochondrial pyridine nucleotides in adrenal glomerulosa cells in response to K+, angiotensin II and vasopressin. Rohács T, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):785–92
Ins(1,3,4,5)P4 is effective in mobilizing Ca2+ in mouse exocrine pancreatic acinar cells if phospholipase A2 is inhibited. Rowles SJ, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):913–8
Proliferative effect of ammodytin L from the venom of Vipera ammodytes on 208F rat fibroblasts in culture. Rufini S, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):467–72
Calcium-dependent activation of Erk-1 and Erk-2 after hypo-osmotic astrocyte swelling. Schliess F, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):167–71
Nicotinamide inhibits cyclic ADP-ribose-mediated calcium signalling in sea urchin eggs. Sethi JK, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):613–7
Role of sarcoplasmic/endoplasmic-reticulum Ca2+-ATPases in mediating Ca2+ waves and local Ca2+-release microdomains in cultured glia. Simpson PB, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):239–47
Neuropeptide Y modulates ATP-induced increases in internal calcium via the adenylate cyclase/protein kinase A system in a human neuroblastoma cell line. Soares Lemos V, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):439–44
Membrane association, localization and topology of rat inositol 1,4,5-trisphosphate 3-kinase B: implications for membrane traffic and Ca2+ homoeostasis. Soriano S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):579–89
Separate effects of long-chain phosphatidylcholines on dephosphorylation of the Ca(2+)-ATPase and on Ca2+ binding. Starling AP, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):785–8
Lysophosphatidic acid-sensitive intracellular Ca2+ store does not regulate Ca2+ entry at plasma membrane in Jurkat human T-cells. Takemura H, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):393–7
Improvements on the purification of mannan-binding lectin and demonstration of its Ca(2+)-independent association with a C1s-like serine protease. Tan SM, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):329–32
Regulation of inositol trisphosphate-induced membrane currents in Xenopus oocytes by a Jurkat cell calcium influx factor. Thomas D, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):649–56
Tyrosine phosphorylation-dependent activation of phosphatidylinositide 3-kinase occurs upstream of Ca2+-signalling induced by Fcgamma receptor cross-linking in human neutrophils. Vossebeld PJ, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):87–94
Divergent effects of extracellular and intracellular alkalosis on Ca2+ entry pathways in vascular endothelial cells. Wakabayashi I, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):567–73
Bombesin and thrombin affect discrete pools of intracellular calcium through different G-proteins. Wang JL, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):87–91
EF-hand motifs of alpha, beta and gamma isoforms of diacylglycerol kinase bind calcium with different affinities and conformational changes. Yamada K, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):59–64
Subunit structure of Ca++ dependent soluble goat hepatic lectin: evidence that it has antigenic structural relationship with soluble 14K lectin family. Ali N, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):961–73
Effect of vitamin D deficiency on lipid composition and calcium transport in basolateral membrane vesicles from chick intestine. Alisio A, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):339–47
Magnesium depletion impairs myocardial carbohydrate and lipid metabolism and cardiac bioenergetics and raises myocardial calcium content in-vivo: relationship to etiology of cardiac diseases. Altura BM, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1183–90
The interaction of 8-anilinonaphthalene-1-sulfonate with His-47 of Taiwan cobra phospholipase A2 perturbing by the binding of calcium ion. Chang LS, et al. **Biochem Mol Biol Int** 1996 May;39(2):335–42
Intracellular calcium variation in heparin-capacitated bovine sperm. Córdoba M, et al. **Biochem Mol Biol Int** 1997 Apr; 41(4):725–33
Acylphosphatase stimulates Ca2+ transport and Ca(2+)-dependent ATPase activity in cardiac sarcoplasmic reticulum. Fiorillo C, et al. **Biochem Mol Biol Int** 1996 May;39(2):387–94
Hysteretic properties of rabbit skeletal muscle phosphorylase kinase: synergistic activation by phosphorylase b, Ca2+, and Mg2+. Kurganov BI, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):805–12
Ca2+ binding and translocating properties of diflunisal. Neigh GS, et al. **Biochem Mol Biol Int** 1996 May; 39(1):53–61
Lipid peroxidation both inhibits Ca(2+)-ATPase and increases Ca2+ permeability of endoplasmic reticulum membrane. Račay P, et al. **Biochem Mol Biol Int** 1997 Apr; 41(4):647–55
Dissociation between effects of polyamines on mitochondrial calcium uptake and mitochondrial permeability transition by elongation of polyamine methylene backbone. Rustenbeck I, et al. **Biochem Mol Biol Int** 1996 Apr; 38(5):1003–11
ATP-induced calcium mobilization in glomerular mesangial cells is mediated by P2U purinoceptor. Takeda M, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1193–200
Characterization of Ca(2+) flows essential in ornithine decarboxylase induction by L-asparagine in rat hepatoma cells using Ca(2+) flow inhibitors. Wong PC, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):1041–7
The role of calcium in the artificially induced decidual cell reaction in pseudopregnant mice. Sakoff JA, et al. **Biochem Mol Med** 1996 Apr;57(2):81–90
Agonist-releasable intracellular calcium stores and the phenomenon of store-dependent calcium entry. A novel hypothesis based on calcium stores in organelles of the endo- and exocytotic apparatus. Bode HP, et al. **Biochem Pharmacol** 1996 Apr 26;51(8):993–1001 (71 ref.)
Adaptation to oxidative stress: quinone-mediated protection of signaling in rat lung epithelial L2 cells. Choi J, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):987–93
Inhibition of calcium accumulation by the sarcoplasmic reticulum: a putative mechanism for the cardiotoxicity of adriamycin. Halili-Rutman I, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):211–4
Pharmacokinetics and systemic effect on calcium homeostasis of 1 alpha,24-dihydroxyvitamin D2 in rats. Comparison with 1 alpha,25-dihydroxyvitamin D2, calcitriol, and calcipotriol. Knutson JC, et al. **Biochem Pharmacol** 1997 Mar 21;53(6):829–37
Histamine H1 receptor-induced Ca2+ mobilization and

prostaglandin E2 release in human gingival fibroblasts. Possible role of receptor-operated Ca2+ influx. Niisato N, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1015-23

Receptor-mediated diacylglycerol kinase translocation dependent on both transient increase in the intracellular calcium concentration and modification by protein kinase C. Nobe K, et al. **Biochem Pharmacol** 1997 Jun 1; 53(11):1683-94

Ca2+ transient, cell volume, and microviscosity of the plasma membrane in smooth muscle. Ochsner M. **Biochem Pharmacol** 1997 Jun 15;53(12):1765-77 (123 ref.)

Inhibition of M3 muscarinic acetylcholine receptor-mediated Ca2+ influx and intracellular Ca2+ mobilization in neuroblastoma cells by the Ca2+/calmodulin-dependent protein kinase inhibitor 1-[N,O-bis(5-isoquinolinesulfonyl)-N-methyl-L-trosyl]-4-phenylpiperazin e (KN-62). Puhl HL, et al. **Biochem Pharmacol** 1997 Apr 25;53(8):1107-14

Nonproteolytic activation of the thrombin receptor promotes human umbilical vein endothelial cell growth but not intracellular CA2+, prostacyclin, or permeability [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1945] Schaeffer P, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):487-91

Stimulation of Ca2+ release from rat liver mitochondria by the dithiol reagent alpha-lipoic acid. Schweizer M, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1815-20

Effects of calcitriol and its analogues, calcipotriol (MC 903) and 20-epi-1alpha,25-dihydroxyvitamin D3 (MC 1288), on calcium influx and DNA synthesis in cultured muscle cells. Selles J, et al. **Biochem Pharmacol** 1997 Jun 15; 53(12):1807-14

Bradykinin antagonists in human systems: correlation between receptor binding, calcium signalling in isolated cells, and functional activity in isolated ileum. Wieczorek M, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):283-91

Effects of aliphatic alcohols on the ER calcium pumps and InsP3 receptors from porcine cerebellum. Mezna M, et al. **Biochem Soc Trans** 1996 May;24(2):292S

Can phenolic plasticising agents affect testicular development by disturbing intracellular calcium homeostasis? Michelangeli F, et al. **Biochem Soc Trans** 1996 May; 24(2):293S

A role for calcium and annexins in the formation of caveolae. Parkin ET, et al. **Biochem Soc Trans** 1996 Aug;24(3):444S

Cytosolic calcium and oxidative plant stress. Price A, et al. **Biochem Soc Trans** 1996 May;24(2):479-83 (48 ref.)

Differential effects of steroids on vascular tone and smooth muscle cell Ca(2+)-homeostasis. Ruehlmann DO, et al. **Biochem Soc Trans** 1997 Feb;25(1):112S

High-resolution kinetic studies of the reassembly of the tetra-manganese cluster of photosynthetic water oxidation: proton equilibrium, cations, and electrostatics. Ananyev GM, et al. **Biochemistry** 1996 Nov 19;35(46):14608-17

Functional identification of calcium binding residues in bovine alpha-lactalbumin. Anderson PJ, et al. **Biochemistry** 1997 Sep 30;36(39):11648-54

Roles for adenosine ribose hydroxyl groups in cyclic adenosine 5'-diphosphate ribose-mediated Ca2+ release. Ashamu GA, et al. **Biochemistry** 1997 Aug 5;36(31):9509-17

Dissociation of Ca2+ from sarcoplasmic reticulum Ca2+-ATPase and changes in fluorescence of optically selected Trp residues. Effects of KCl and NaCl and implications for substeps in Ca2+ dissociation. Champeil P, et al. **Biochemistry** 1997 Oct 7;36(40):12383-93

Luminal pH regulated calcium release kinetics in sarcoplasmic reticulum vesicles. Donoso P, et al. **Biochemistry** 1996 Oct 15;35(41):13419-25

Alpha 2A-adrenergic receptor stimulated calcium release is transduced by Gi-associated G(beta gamma)-mediated activation of phospholipase C. Dorn GW 2nd, et al. **Biochemistry** 1997 May 27;36(21):6415-23

Optimizing the metal binding parameters of an EF-hand-like calcium chelation loop: coordinating side chains play a more important tuning role than chelation loop flexibility. Drake SK, et al. **Biochemistry** 1997 Aug 12;36(32):9917-26

Ionophore 4-BrA23187 transports Zn2+ and Mn2+ with high selectivity over Ca2+. Erdahl WL, et al. **Biochemistry** 1996 Oct 29;35(43):13817-25

A ternary metal binding site in the C2 domain of phosphoinositide-specific phospholipase C-delta1. Essen LO, et al. **Biochemistry** 1997 Mar 11;36(10):2753-62

NMR studies of the E140Q mutant of the carboxy-terminal domain of calmodulin reveal global conformational exchange in the Ca2+-saturated state. Evenäs J, et al. **Biochemistry** 1997 Mar 25;36(12):3448-57

Kinetics of myosin subfragment-1-induced condensation of G-actin into oligomers, precursors in the assembly of F-actin-S1. Role of the tightly bound metal ion and ATP hydrolysis. Fievez S, et al. **Biochemistry** 1997 Sep 30; 36(39):11837-42

Mechanism of myosin subfragment-1-induced assembly of CaG-actin and MgG-actin into F-actin-S1-decorated filaments. Fievez S, et al. **Biochemistry** 1997 Sep 30; 36(39):11843-50

Ca2+-dependent inhibition of G protein-coupled receptor kinase 2 by calmodulin. Haga K, et al. **Biochemistry** 1997 Feb 11;36(6):1315-21

Phospholipase A2 engineering. Deletion of the C-terminus segment changes substrate specificity and uncouples calcium and substrate binding at the zwitterionic interface. Huang B, et al. **Biochemistry** 1996 Sep 17;35(37):12164-74

Activation of a Ca(2+)-dependent protein kinase involves intramolecular binding of a calmodulin-like regulatory domain. Huang JF, et al. **Biochemistry** 1996 Oct 8; 35(40):13222-30

High-affinity calcium-binding site in the gama-carboxyglutamic acid domain of bovine factor VII. Inoue K, et al. **Biochemistry** 1996 Oct 29;35(43):13826-32

Annexin V-mediated calcium flux across membranes is dependent on the lipid composition: implications for cartilage mineralization. Kirsch T, et al. **Biochemistry** 1997 Mar 18;36(11):3359-67

Calcium binding and homoassociation of E-cadherin domains. Koch AW, et al. **Biochemistry** 1997 Jun 24; 36(25):7697-705

Conformational effects of calcium release from parvalbumin: comparison of computational simulations with spectroscopic investigations. Laberge M, et al. **Biochemistry** 1997 May 6;36(18):5363-71

DNA binding specificity of MunI restriction endonuclease is controlled by pH and calcium ions: involvement of active site carboxylate residues. Lagunavicius A, et al. **Biochemistry** 1997 Sep 16;36(37):11093-9

Calcium-dependent binding of recoverin to membranes monitored by surface plasmon resonance spectroscopy in real time. Lange C, et al. **Biochemistry** 1997 Oct 7; 36(40):12019-26

Calcium-binding mechanism of human nonerythroid alpha-spectrin EF-structures. Lundberg S, et al. **Biochemistry** 1997 Jun 10;36(23):7199-208

Annexin XII forms calcium-dependent multimers in solution and on phospholipid bilayers: a chemical cross-linking study. Mailliard WS, et al. **Biochemistry** 1997 Jul 22; 36(29):9045-50

Interaction of calmodulin-binding domain peptides of nitric oxide synthase with membrane phospholipids: regulation by protein phosphorylation and Ca(2+)-calmodulin. Matsubara M, et al. **Biochemistry** 1996 Nov 19; 35(46):14651-8

Characterization of the interaction of Ca2+ with hydroxy and non-hydroxy fatty acid species of cerebroside sulfate by Fourier transform infrared spectroscopy and molecular modeling. Menikh A, et al. **Biochemistry** 1997 Mar 25; 36(12):3438-47

Characterization of Ca(2+)-binding sites in the kidney stone inhibitor glycoprotein nephrocalcin using vanadyl ions: different metal binding properties in strong and weak inhibitor proteins revealed by EPR and ENDOR. Mustafi D, et al. **Biochemistry** 1996 Nov 26;35(47):14703-9

Ca2+-calmodulin binding to mouse alpha1 syntrophin: syntrophin is also a Ca2+-binding protein. Newbell BJ, et al. **Biochemistry** 1997 Feb 11;36(6):1295-305

Ca2+-dependent interaction with calmodulin is conserved in the synapsin family: identification of a high-affinity site. Nicol S, et al. **Biochemistry** 1997 Sep 23;36(38):11487-95

Functional reconstitution of photoreceptor guanylate cyclase with native and mutant forms of guanylate cyclase-activating protein 1. Otto-Bruc A, et al. **Biochemistry** 1997 Apr 8;36(14):4295-302

Calcium binding properties of synthetic gamma-carboxyglutamic acid-containing marine cone snail "sleeper" peptides, conantokin-G and conantokin-T. Prorok M, et al. **Biochemistry** 1996 Dec 24;35(51):16528-34

Structural and functional significance of aspartic acid 89 of the troponin C central helix in Ca2+ signaling. Ramakrishnan S, et al. **Biochemistry** 1996 Dec 3; 35(48):15515-21

The role of the extrinsic 33 kDa protein in Ca2+ binding in photosystem II. Seidler A, et al. **Biochemistry** 1996 Sep 17;35(37):12104-10

Phospholamban-dependent effects of C12E8 on calcium transport and molecular dynamics in cardiac sarcoplasmic reticulum. Shi Y, et al. **Biochemistry** 1996 Oct 15; 35(41):13393-9

Calcium binding sites of calmodulin and electron transfer by neuronal nitric oxide synthase. Stevens-Truss R, et al. **Biochemistry** 1997 Oct 7;36(40):12337-45

Thiol oxidation and cytochrome P450-dependent metabolism of CCl4 triggers Ca2+ release from liver microsomes. Stoyanovsky DA, et al. **Biochemistry** 1996 Dec 10; 35(49):15839-45

Thermodynamics of binding of the distal calcium to manganese peroxidase. Sutherland GRJ, et al. **Biochemistry** 1997 Jul 15;36(28):8567-73

Interaction of S100A1 with the Ca2+ release channel (ryanodine receptor) of skeletal muscle. Treves S, et al. **Biochemistry** 1997 Sep 23;36(38):11496-503

Determination of calcium-binding sites in rat brain calbindin D28K by electrospray ionization mass spectrometry. Veenstra TD, et al. **Biochemistry** 1997 Mar 25; 36(12):3535-42

Conservative D133E mutation of calmodulin site IV drastically alters calcium binding and phosphodiesterase regulation. Wu X, et al. **Biochemistry** 1997 Mar 25; 36(12):3608-16

Structure/calcium affinity relationships of site III of calmodulin: testing the acid pair hypothesis using calmodulin mutants. Wu X, et al. **Biochemistry** 1997 Jul 15;36(28):8649-56

Quantitative kinetic model for photoassembly of the photosynthetic water oxidase from its inorganic constituents: requirements for manganese and calcium in the kinetically resolved steps,. Zaltsman L, et al. **Biochemistry** 1997 Jul 22;36(29):8914-22

Arachidonic acid inhibits capacitative calcium entry in rat thymocytes and human neutrophils. Alonso-Torre SR, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):207-13

Calcium-dependent and -independent binding of the pentraxin serum amyloid P component to glycosaminoglycans and amyloid proteins: enhanced binding at slightly acid pH. Danielsen B, et al. **Biochim Biophys Acta** 1997 Apr 25;1339(1):73-8

Membrane potential and cytosolic free calcium levels modulate acetylcholine-induced inositol phosphate production in insulin-secreting BTC3 cells. Gromada J, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):145-8

Effect of caffeine on mucus secretion and agonist-dependent Ca2+ mobilization in human gastric mucus secreting cells. Hamada E, et al. **Biochim Biophys Acta** 1997 Apr 24; 1356(2):198-206

Effects of U73122 and U73343 on human platelet calcium signalling and protein tyrosine phosphorylation. Heemskerk JW, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):81-8

Calcium and protein kinase C play a significant role in response to Shigella toxin in rabbit ileum both in vivo and in vitro. Kaur T, et al. **Biochim Biophys Acta** 1997 Jul 10; 1361(1):75-91

Volume regulation and the efflux of amino acids from cells in incubated slices of rat cerebral cortex. II. Dependence on Ca2+ ions. Law RO. **Biochim Biophys Acta** 1996 Nov 8;1314(1-2):43-8

Ca2+ transport by the sarcoplasmic reticulum ATPase. Mintz E, et al. **Biochim Biophys Acta** 1997 Jan 16; 1318(1-2):52-70 (171 ref.)

Atypical angiotensin II receptors coupled to phosphoinositide turnover/calcium signalling in catfish hepatocytes. Olivares-Reyes JA, et al. **Biochim Biophys Acta** 1997 Jun 27;1357(2):201-8

Pertussis toxin- and PMA-insensitive calcium mobilization by sphingosine in CFPAC-1 cells: evidence for a phosphatidic acid-dependent mechanism. Orlati S, et al. **Biochim Biophys Acta** 1997 Aug 21;1358(1):93-102

Conducting and voltage-dependent behaviors of the native and purified SR Ca2+-release channels from the canine diaphragm. Picher M, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):243-60

Regulation of calcium-induced exocytosis from gastric chief cells by protein phosphatase-2B (calcineurin). Raufman JP, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):73-80

Human recombinant alpha-parvalbumin and nine mutants with individually inactivated calcium- and magnesium-binding sites: biochemical and immunological properties. Rhyner JA, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):179-86

Relation between accumulation of phospholipase A2 reaction products and Ca2+ release in isolated liver mitochondria. Rustenbeck I, et al. **Biochim Biophys Acta** 1996 Nov 22; 1304(2):129-38

Lead induced rise in intracellular free calcium is mediated through activation of protein kinase C in osteoblastic bone cells. Schanne FA, et al. **Biochim Biophys Acta** 1997 May 24;1360(3):247-54

Ca2+ release and Ca2+ influx in Chinese hamster ovary cells expressing the cloned mouse B2 bradykinin receptor: tyrosine kinase inhibitor-sensitive and- insensitive processes. Taketo M, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):89-98

Involvement of protein kinase C in the modulation of 1alpha,25-dihydroxy-vitamin D3-induced 45Ca2+ uptake in rat and chick cultured myoblasts. Vazquez G, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):157-62

Allosteric regulation by Mg2+ of the vacuolar H(+)-PPase from Acer pseudoplatanus cells. Ca2+/Mg2+ interactions. Fraichard A, et al. **Biochimie** 1996; 78(4):259-66

Calcium-dependent oligonucleotide cellular uptake. Wu-Pong S. **Biochimie** 1996;78(1):33-8

Stimulation of Ca2+ influx in rat pituitary cells under exposure to a 50 Hz magnetic field. Barbier E, et al. **Bioelectromagnetics** 1996;17(4):303-11

Intracellular calcium signaling by Jurkat T-lymphocytes exposed to a 60 Hz magnetic field. Lyle DB, et al. **Bioelectromagnetics** 1997;18(6):439-45

Serum plays a critical role in modulating [Ca2+]c of primary culture bone cells exposed to weak ion-resonance magnetic fields. Reinbold KA, et al. **Bioelectromagnetics** 1997; 18(3):203-14

Calcium homeostasis of isolated heart muscle cells exposed to pulsed high-frequency electromagnetic fields. Wolke S, et al. **Bioelectromagnetics** 1996;17(2):144-53

Spatial features of calcium-regulated gene expression. Finkbeiner S, et al. **Bioessays** 1997 Aug;19(8):657-60 (26 ref.)

Nuclear calcium and the regulation of the nuclear pore complex. Perez-Terzic C, et al. **Bioessays** 1997 Sep; 19(9):787-92 (69 ref.)

A novel signalling mechanism for generating Ca2+ oscillations at fertilization in mammals. Swann K, et al. **Bioessays** 1997 May;19(5):371-8 (70 ref.)

Electrical bursting and luminal calcium oscillation in excitable cell models. Chay TR. **Biol Cybern** 1996 Nov; 75(5):419-31

Spermine modulates calcium flux through the rat erythrocyte membrane. Kohno H, et al. **Biol Pharm Bull** 1997 Feb; 20(2):153-7

Calcium signals in helper T cells after interaction with antigen-specific and antigen-nonspecific B cells. Nagao Y, et al. **Biol Pharm Bull** 1996 May;19(5):697-700

1-[[[5-(4-Nitrophenyl)-2-furanyl]methylene]imino]-2,4-imidazolidinedione (dantrolene), an inhibitor of intracellular Ca2+ mobilization, impairs avoidance performance and spatial memory in mice. Ohnuki T, et al. **Biol Pharm Bull** 1996 Aug;19(8):1038-40

Characterization of human p33/41 (annexin IV), a Ca2+ dependent carbohydrate-binding protein with monoclonal anti-annexin IV antibodies, AS11 and AS17. Satoh A, et al. **Biol Pharm Bull** 1997 Mar;20(3):224-9

Decalcification of calcium polycarbophil in rats. Yamada T, et al. **Biol Pharm Bull** 1997 Mar;20(3):275-7

Cholecystokinin tetrapeptide-induced calcium mobilization in T cells of patients with panic disorder, major depression, or schizophrenia. Akiyoshi J, et al. **Biol Psychiatry** 1997 Jul 15;42(2):151-4

Effects of antidepressants on intracellular Ca2+ mobilization in CHO cells transfected with the human 5-HT2C receptors. Akiyoshi J, et al. **Biol Psychiatry** 1996 Jun 15; 39(12):1000-8

Antipsychotic drugs block IP3-dependent Ca(2+)-release from rat brain microsomes. Sczekan SR, et al. **Biol Psychiatry** 1996 Sep 15;40(6):497-502

Intracellular pH of rat eggs is not affected by fertilization and the resulting calcium oscillations. Ben-Yosef D, et al. **Biol Reprod** 1996 Aug;55(2):461-8

Correlation between connexin43 expression, cell-cell communication, and oxytocin-induced Ca2+ responses in an immortalized human myometrial cell line. Burghardt RC, et al. **Biol Reprod** 1996 Aug;55(2):433-8

Intracellular calcium concentration in equine spermatozoa attached to oviductal epithelial cells in vitro. Dobrinski I, et al. **Biol Reprod** 1996 Apr;54(4):783-8

Membrane contact with oviductal epithelium modulates the intracellular calcium concentration of equine spermatozoa in vitro. Dobrinski I, et al. **Biol Reprod** 1997 Apr; 56(4):861-9

Gonadotropin-releasing hormone-stimulated calcium mobilization is altered in pituitary cultures from anestrous ewes. Ghosh BR, et al. **Biol Reprod** 1996 Apr;54(4):753-60

Developmental changes in the intracellular Ca2+ release mechanisms in porcine oocytes. Machát y Z, et al. **Biol Reprod** 1997 Apr;56(4):921-30

Rat Sertoli cell calcium response to basement membrane and follicle-stimulating hormone. Ravindranath N, et al. **Biol Reprod** 1996 Jan;54(1):130-7

Protein kinase C- and Ca2+ ionophore-stimulated production of reactive oxygen species in mechanically dispersed isolated bovine luteal cells. Sakka E, et al. **Biol Reprod** 1997 Aug;57(2):428-35

Regulation of blastocoele formation by intracellular calcium release is mediated through a phospholipase C-dependent pathway in mice. Stachecki JJ, et al. **Biol Reprod** 1996 Dec; 55(6):1292-8

Microtubule and chromatin dynamics during fertilization and early development in rhesus monkeys, and regulation by intracellular calcium ions. Wu GJ, et al. **Biol Reprod** 1996 Aug;55(2):260-70

Alpha2-adrenergic receptor-mediated Ca2+ influx and release in porcine myometrial cells. ZhuGe R, et al. **Biol Reprod** 1997 May;56(5):1343-50

Cyclic ADP-ribose and calcium signaling in eggs. Lee HC. **Biol Signals** 1996 Mar-Apr;5(2):101-10 (58 ref.)

Changes in iron, calcium, magnesium, copper, and zinc levels in different tissues of riboflavin-deficient rats. Chen H, et al. **Biol Trace Elem Res** 1997 Mar;56(3):311-9

Calcium-cadmium interaction on sugar absorption across the rabbit jejunum. Mesonero JE, et al. **Biol Trace Elem Res** 1996 Feb;51(2):149-59

Neurological disorder and excessive accumulation of calcium in brain of clinically vitamin A-deficient rats. Rahman AS, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):57-64

Distribution of terbium and increase of calcium concentration in the organs of mice i.v.-administered with terbium chloride. Shinohara A, et al. **Biomed Environ Sci** 1997 Mar; 10(1):73-84

Ca2+ current activation rate correlates with alpha 1 subunit density. Adams BA, et al. **Biophys J** 1996 Jul;71(1):156-62

Phosphate release and force generation in cardiac myocytes investigated with caged phosphate and caged calcium. Araujo A, et al. **Biophys J** 1996 May;70(5):2316-26

Recovery of Ca2+ current, charge movements, and Ca2+ transients in myotubes deficient in dihydropyridine receptor beta 1 subunit transfected with beta 1 cDNA. Beurg M, et al. **Biophys J** 1997 Aug;73(2):807-18

Functional calcium release channel formed by the carboxyl-terminal portion of ryanodine receptor. Bhat MB, et al. **Biophys J** 1997 Sep;73(3):1329-36

Troponin C modulates the activation of thin filaments by rigor cross-bridges. Brandt PW, et al. **Biophys J** 1997 May; 72(5):2262-7

Numerical analysis of ryanodine receptor activation by L-type channel activity in the cardiac muscle diad. Cannell MB, et al. **Biophys J** 1997 Jul;73(1):112-22

Effects of extracellular calcium on electrical bursting and intracellular and luminal calcium oscillations in insulin secreting pancreatic beta-cells. Chay TR. **Biophys J** 1997 Sep;73(3):1673-88

Permeation through the calcium release channel of cardiac muscle. Chen D, et al. **Biophys J** 1997 Sep;73(3):1337-54

Heterogeneity of Ca2+ gating of skeletal muscle and cardiac ryanodine receptors. Copello JA, et al. **Biophys J** 1997 Jul; 73(1):141-56

Quantal release, incremental detection, and long-period Ca2+ oscillations in a model based on regulatory Ca2+-binding sites along the permeation pathway. Dupont G, et al. **Biophys J** 1996 Oct;71(4):1714-22

A single tryptophan on M2 of glutamate receptor channels confers high permeability to divalent cations. Ferrer-Montiel AV, et al. **Biophys J** 1996 Aug;71(2):749-58

Modulation of cross-bridge affinity for MgGTP by Ca2+ in skinned fibers of rabbit psoas muscle. Frisbie SM, et al. **Biophys J** 1997 May;72(5):2255-61

Endogenous buffers limit the spread of free calcium in hair cells. Hall JD, et al. **Biophys J** 1997 Sep;73(3):1243-52

Influence of Ca2+ on force redevelopment kinetics in skinned rat myocardium. Hancock WO, et al. **Biophys J** 1996 Jun;70(6):2819-29

Measurement of membrane potential and [Ca2+]i in cell ensembles: application to the study of glutamate taste in mice. Hayashi Y, et al. **Biophys J** 1996 Aug;71(2):1057-70

The effects of weak extremely low frequency magnetic fields on calcium/calmodulin interactions. Hendee SP, et al. **Biophys J** 1996 Jun;70(6):2915-23

Unitary cardiac Na+, Ca2+ exchange current magnitudes determined from channel-like noise and charge movements of ion transport. Hilgemann DW. **Biophys J** 1996 Aug; 71(2):759-68

Indo-1 fluorescence signals elicited by membrane depolarization in enzymatically isolated mouse skeletal muscle fibers. Jacquemond V. **Biophys J** 1997 Aug; 73(2):920-8

Rapid charge translocation by the cardiac Na(+)-Ca2+ exchanger after a Ca2+ concentration jump. Kappl M, et al. **Biophys J** 1996 Nov;71(5):2473-85

Ryanodine receptor adaptation and Ca2+(-)induced Ca2+ release-dependent Ca2+ oscillations. Keizer J, et al. **Biophys J** 1996 Dec;71(6):3477-87

Effects of injecting calcium-buffer solution on [Ca2+]i in voltage-clamped snail neurons. Kennedy HJ, et al. **Biophys J** 1996 May;70(5):2120-30

Modeling buffered Ca2+ diffusion near the membrane: implications for secretion in neuroendocrine cells. Klingauf J, et al. **Biophys J** 1997 Feb;72(2 Pt 1):674-90

A realistic model of biphasic calcium transients in electrically nonexcitable cells. Korngreen A, et al. **Biophys J** 1997 Aug; 73(2):659-73

Modulation of the kinetics of inositol 1,4,5-trisphosphate-induced [Ca2+]i oscillations by calcium entry in pituitary gonadotrophs. Kukuljan M, et al. **Biophys J** 1997 Feb;72(2 Pt 1):698-707

Analytical calculation of intracellular calcium wave characteristics. Kupferman R, et al. **Biophys J** 1997 Jun; 72(6):2430-44

Conductance and permeation of monovalent cations through depletion-activated Ca2+ channels (ICRAC) in Jurkat T cells. Lepple-Wienhues A, et al. **Biophys J** 1996 Aug; 71(2):787-94

Sensing and refilling calcium stores in an excitable cell. Li YX, et al. **Biophys J** 1997 Mar;72(3):1080-91

Purification and characterization of ryanotoxin, a peptide with actions similar to those of ryanodine. Morrissette J, et al. **Biophys J** 1996 Aug;71(2):707-21

A Ba2+ chelator suppresses long shut events in fully activated high-conductance Ca(2+)-dependent K+ channels. Neyton J. **Biophys J** 1996 Jul;71(1):220-6

Current-voltage relations and steady-state characteristics of Na+-Ca2+ exchange: characterization of the eight-state consecutive transport model. Omelchenko A, et al. **Biophys J** 1996 Oct;71(4):1751-63

Mechanisms of sodium/calcium selectivity in sodium channels probed by cysteine mutagenesis and sulfhydryl modification. Pérez-García MT, et al. **Biophys J** 1997 Mar; 72(3):989-96

Factors shaping the confocal image of the calcium spark in cardiac muscle cells. Pratusevich VR, et al. **Biophys J** 1996 Dec;71(6):2942-57

Simultaneous measurement of Ca2+ influx and reversal potentials in recombinant N-methyl-D-aspartate receptor channels. Schneggenburger R. **Biophys J** 1996 May; 70(5):2165-74

Cytosolic and mitochondrial [Ca2+] in whole hearts using indo-1 acetoxymethyl ester: effects of high extracellular Ca2+. Schreur JH, et al. **Biophys J** 1996 Jun;70(6):2571-80

Assessment of intra-SR free [Ca] and buffering in rat heart. Shannon TR, et al. **Biophys J** 1997 Sep;73(3):1524-31

Wanderlust kinetics and variable Ca(2+)-sensitivity of Drosophila, a large conductance Ca(2+)-activated K+ channel, expressed in oocytes. Silberberg SD, et al. **Biophys J** 1996 Jun;70(6):2640-51

Presynaptic calcium dynamics and transmitter release evoked by single action potentials at mammalian central synapses. Sinha SR, et al. **Biophys J** 1997 Feb;72(2 Pt 1):637-51

Validity of the rapid buffering approximation near a point source of calcium ions. Smith GD, et al. **Biophys J** 1996 Jun;70(6):2527-39

Endogenous heavy metal ions perturb fura-2 measurements of basal and hormone-evoked Ca2+ signals. Snitsarev VA, et al. **Biophys J** 1996 Aug;71(2):1048-56

Numerical simulation of local calcium movements during L-type calcium channel gating in the cardiac diad. Soeller C, et al. **Biophys J** 1997 Jul;73(1):97-111

Calcium binding decreases the stokes radius of calmodulin and mutants R74A, R90A, and R90G. Sorensen BR, et al. **Biophys J** 1996 Dec;71(6):3407-20

"Adaptive" behavior of ligand-gated ion channels: constraints by thermodynamics. Stern MD. **Biophys J** 1996 May; 70(5):2100-9

Measurements of Ca2+ entry and sarcoplasmic reticulum Ca2+ content during the cardiac cycle in guinea pig and rat ventricular myocytes. Terracciano CM, et al. **Biophys J** 1997 Mar;72(3):1319-26

Sarcoplasmic reticulum lumenal Ca2+ has access to cytosolic activation and inactivation sites of skeletal muscle Ca2+ release channel. Tripathy A, et al. **Biophys J** 1996 Jun;70(6):2600-15

A time-resolved Fourier transformed infrared difference spectroscopy study of the sarcoplasmic reticulum Ca(2+)-ATPase: kinetics of the high-affinity calcium binding at low temperature. Troullier A, et al. **Biophys J** 1996 Dec;71(6):2970-83

Assessment of frequency-dependent alterations in the level of extracellular Ca2+ in the synaptic cleft. Vassilev PM, et al. **Biophys J** 1997 May;72(5):2103-16

Adaptation of single cardiac ryanodine receptor channels. Vélez P, et al. **Biophys J** 1997 Feb;72(2 Pt 1):691-7

Nucleotide-dependent contractile properties of Ca(2+)-activated fast and slow skeletal muscle fibers. Wahr PA, et al. **Biophys J** 1997 Feb;72(2 Pt 1):822-34

Inner sarcolemmal leaflet Ca(2+) binding: its role in cardiac Na/Ca exchange. Wang SY, et al. **Biophys J** 1996 May; 70(5):2266-74

Intracellular calibration of the calcium indicator indo-1 in isolated fibers of Xenopus muscle. Westerblad H, et al. **Biophys J** 1996 Aug;71(2):908-17

A theoretical study of calcium microdomains in turtle hair cells. Wu YC, et al. **Biophys J** 1996 Nov;71(5):2256-75

Velocity-curvature relationship of colliding spherical calcium waves in rat cardiac myocytes. Wussling MH, et al. **Biophys J** 1997 Sep;73(3):1232-42

Kinetic studies of Ca2+ binding and Ca2+ clearance in the cytosol of adrenal chromaffin cells. Xu T, et al. **Biophys J** 1997 Jul;73(1):532-45

AM-loading of fluorescent Ca2+ indicators into intact single fibers of frog muscle. Zhao M, et al. **Biophys J** 1997 Jun; 72(6):2736-47

Interaction of oxytocin with Ca2+: I. CD and fluorescence spectral characterization and comparison with vasopressin. Ananthanarayanan VS, et al. **Biopolymers** 1996; 40(5):433-43

Interaction of oxytocin with Ca2+: II. Proton magnetic resonance and molecular modeling studies of conformations of the hormone and its Ca2+ complex. Ananthanarayanan VS, et al. **Biopolymers** 1996;40(5):445-64

Effect of transmembrane Ca2+ gradient on the coupling of beta-adrenergic receptors and adenylyl cyclase. Fan GF, et al. **Biosci Rep** 1996 Aug;16(4):327-41

Luminal calcium regulation of calcium release from sarcoplasmic reticulum. Hidalgo C, et al. **Biosci Rep** 1995 Oct;15(5):387-97 (85 ref.)

Ca2+ binding and translocation by the sarcoplasmic reticulum ATPase: functional and structural considerations. Inesi G, et al. **Biosci Rep** 1995 Oct;15(5):327-39 (49 ref.)

Quantal Ca2+ release and inactivation in a model of the inositol 1,4,5-trisphosphate receptor involving transformation of the ligand by the receptor. Kaimachnikov NP, et al. **Biosci Rep** 1996 Oct;16(5):405-13

How do Ca2+ ions pass through the sarcoplasmic reticulum membrane. Mintz E, et al. **Biosci Rep** 1995 Oct;15(5):377-85 (64 ref.)

Use of thapsigargin to study Ca2+ homeostasis in cardiac cells. Rogers TB, et al. **Biosci Rep** 1995 Oct;15(5):341-9 (18 ref.)

Generation of H2O2 by human neutrophils and changes of cytosolic Ca2+ and pH of rat thymocytes in response to galactoside-binding proteins (lectins or immunoglobulins). Timoshenko AV, et al. **Biosci Rep** 1997 Apr;17(2):219-30

Transmembrane Ca2+ gradient is essential for high anion transport activity of human erythrocytes. Tu YP, et al. **Biosci Rep** 1996 Aug;16(4):299-311

Ligand-gated channel of the sarcoplasmic reticulum Ca2+ transport ATPase. Wolosker H, et al. **Biosci Rep** 1995 Oct; 15(5):365-76 (53 ref.)

Transmembrane Ca2+ gradient and function of membrane proteins. Yang FY, et al. **Biosci Rep** 1995 Oct;15(5):351-64 (44 ref.)

Conjugation of blocked ricin to an anti-CD19 monoclonal antibody increases antibody-induced cell calcium mobilization and CD19 internalization. Goulet AC, et al. **Blood** 1997 Sep 15;90(6):2364-75

Activation of A3 adenosine receptors on human eosinophils elevates intracellular calcium. Kohno Y, et al. **Blood** 1996 Nov 1;88(9):3569-74

Recombinant human eotaxin induces oxygen radical production, Ca(2+)-mobilization, actin reorganization, and CD11b upregulation in human eosinophils via a pertussis toxin-sensitive heterotrimeric guanine nucleotide-binding protein. Tenscher K, et al. **Blood** 1996 Oct 15;88(8):3195-9

Platelet prothrombinase activity and intracellular calcium responses in patients with storage pool deficiency, glycoprotein IIb-IIIa deficiency, or impaired platelet coagulant activity—a comparison with Scott syndrome. Weiss HJ, et al. **Blood** 1997 Mar 1;89(5):1599-611

Binding of calcium ions and their effect on clotting of

fibrinogen Milano III, a variant with truncated A alpha-chains. Furlan M, et al. **Blood Coagul Fibrinolysis** 1996 Apr;7(3):331–5

Modulation of cardiac cell Ca2+ currents by PAF. Bkaily G, et al. **Blood Press Suppl** 1996;3:59–62

Calcium-receptor-regulated parathyroid and renal function. Brown EM, et al. **Bone** 1997 Apr;20(4):303–9 (50 ref.)

Effects of strontium ions on growth and dissolution of hydroxyapatite and on bone mineral detection. Christoffersen J, et al. **Bone** 1997 Jan;20(1):47–54

17 beta-estradiol increases calcium content in fetal mouse parietal bones cultured in serum-free medium only at physiological concentrations. Sato k, et al. **Bone** 1996 Sep; 19(3):213–21

Function of Ca2+ in phosphatidylcholine-hydrolyzing phospholipase D activation in osteoblast-like cells. Tokuda H, et al. **Bone** 1996 Oct;19(4):347–52

Volatile anaesthetic effects on calcium conductance of planar lipid bilayers formed with synthetic lipids or extracted lipids from sarcoplasmic reticulum. Andoh T, et al. **Br J Anaesth** 1997 Jan;78(1):66–74

Effect of halothane on K+ and carbachol stimulated [3H]noradrenaline release and increased [Ca2+]i in SH-SY5Y human neuroblastoma cells. Atcheson R, et al. **Br J Anaesth** 1997 Jul;79(1):78–83

Thiobarbiturates suppress depolarization-induced contraction of vascular smooth muscle without suppression of calcium influx. Kitamura R, et al. **Br J Anaesth** 1996 Oct;77(4):503–7

In vitro adrenaline and collagen-induced mobilization of platelet calcium and its inhibition by naftopidil, doxazosin and nifedipine. Alarayyed NA, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):415–20

Vitamin D analogues in psoriasis: effects on systemic calcium homeostasis. Bourke JF, et al. **Br J Dermatol** 1996 Sep; 135(3):347–54 (47 ref.)

Calcium homeostasis influences epidermal sweating in patients with vitiligo. Elwary SM, et al. **Br J Dermatol** 1997 Jul;137(1):81–5

Effect of dietary calcium intake and meal calcium content on calcium absorption in the rat. Cashman KD, et al. **Br J Nutr** 1996 Sep;76(3):463–70

Increases in calcium absorption with ingestion of soluble dietary fibre, guar-gum hydrolysate, depend on the caecum in partially nephrectomized and normal rats. Hara H, et al. **Br J Nutr** 1996 Nov;76(5):773–84

Calcium excretion, apparent calcium absorption and calcium balance in young and elderly subjects: influence of protein intake. Pannemans DL, et al. **Br J Nutr** 1997 May; 77(5):721–9

Effects of cyclopiazonic acid and ryanodine on cytosolic calcium and contraction in vascular smooth muscle. Abe F, et al. **Br J Pharmacol** 1996 Aug;118(7):1711–6

Some effects of nipradilol, a beta-antagonist possessing a nitroxy group, on smooth muscle of the pig coronary artery. Abe S, et al. **Br J Pharmacol** 1996 Apr; 117(8):1707–15

Reduction by inhibitors of mono(ADP-ribosyl)transferase of chemotaxis in human neutrophil leucocytes by inhibition of the assembly of filamentous actin. Allport JR, et al. **Br J Pharmacol** 1996 Jul;118(5):1111–8

Dissociation of the effects of the antitumour ether lipid ET-18-OCH3 on cytosolic calcium and on apoptosis. Alonso MT, et al. **Br J Pharmacol** 1997 Aug;121(7):1364–8

Pharmacological evidence that the activation of the Na(+)-Ca2+ exchanger protects C6 glioma cells during chemical hypoxia. Amoroso S, et al. **Br J Pharmacol** 1997 May;121(2):303–9

Possible mechanism of the potent vasoconstrictor actions of ryanodine on femoral arteries from spontaneously hypertensive rats. Asano M, et al. **Br J Pharmacol** 1996 Jun;118(4):1019–27

Inhibition by P1075 and pinacidil of a calcium-independent chloride conductance in conditionally-immortal renal glomerular mesangial cells. Barber RD, et al. **Br J Pharmacol** 1996 Oct;119(4):772–8

Rise in cytosolic Ca2+ concentration induced by P2-purinoceptor activation in isolated myocytes from the rat gastrointestinal tract. Blottière HM, et al. **Br J Pharmacol** 1996 Mar;117(5):775–80

Effects of beta-adrenoceptor antagonists on Ca(2+)-overload induced by lysophosphatidylcholine in rat isolated cardiomyocytes. Chen M, et al. **Br J Pharmacol** 1996 Jun;118(4):865–70

Characterization of Na+ influx mediated by ATP(4-)-activated P2 purinoceptors in PC12 cells. Choi SY, et al. **Br J Pharmacol** 1996 Jun;118(4):935–40

Extracellular site for econazole-mediated block of Ca2+ release-activated Ca2+ current (Icrac) in T lymphocytes. Christian EP, et al. **Br J Pharmacol** 1996 Oct;119(4):647–54

delta- and mu-opioid receptor mobilization of intracellular calcium in SH-SY5Y human neuroblastoma cells. Connor M, et al. **Br J Pharmacol** 1996 Jan;117(2):333–40

Neuropeptide Y Y2 receptor and somatostatin sst2 receptor coupling to mobilization of intracellular calcium in SH-SY5Y human neuroblastoma cells. Connor M, et al. **Br J Pharmacol** 1997 Feb;120(3):455–63

The effect of L-type calcium channel modulators on the mobilization of intracellular calcium stores in guinea-pig intestinal smooth muscle. Dessy C, et al. **Br J Pharmacol** 1996 Sep;119(1):142–8

Discrimination between subtypes of apamin-sensitive Ca(2+)-activated K+ channels by gallamine and a novel bis-quaternary quinolinium cyclophane, UCL 1530. Dunn PM, et al. **Br J Pharmacol** 1996 Jan;117(1):35–42

The stimulation of human neutrophil migration by angiotensin II: its dependence on Ca2+ and the involvement of cyclic GMP. Elferink JG, et al. **Br J Pharmacol** 1997 Jun;121(4):643–8

Inhibition of a store-operated Ca2+ entry pathway in human endothelial cells by the isoquinoline derivative LOE 908. Encabo A, et al. **Br J Pharmacol** 1996 Oct;119(4):702–6

The ability of a new hypoglycaemic agent, A-4166, compared to sulphonylureas, to increase cytosolic Ca2+ in pancreatic beta-cells under metabolic inhibition. Fujitani S, et al. **Br J Pharmacol** 1997 Apr;120(7):1191–8

Sources of Ca2+ in relation to generation of acetylcholine-induced endothelium-dependent hyperpolarization in rat mesenteric artery. Fukao M, et al. **Br J Pharmacol** 1997 Apr;120(7):1328–34

Inhibition of nicotinic receptor-mediated responses in bovine chromaffin cells by diltiazem. Gandía L, et al. **Br J Pharmacol** 1996 Jul;118(5):1301–7

Pharmacological properties of the Ca2+-release mechanism sensitive to NAADP in the sea urchin egg. Genazzani AA, et al. **Br J Pharmacol** 1997 Aug;121(7):1489–95

Desensitization of glucagon-like peptide 1 receptors in insulin-secreting beta TC3 cells: role of PKA-independent mechanisms. Gromada J, et al. **Br J Pharmacol** 1996 Jun; 118(3):769–75

Different mechanisms of Ca2(+)-handling following nicotinic acetylcholine receptor stimulation, P2U-purinoceptor stimulation and K(+)-induced depolarization in C2C12 myotubes. Henning RH, et al. **Br J Pharmacol** 1996 Apr;117(8):1785–91

Effect of calmodulin antagonists on calmodulin-induced biphasic modulation of Ca(2+)-induced Ca2+ release. Ikemoto T, et al. **Br J Pharmacol** 1996 Jun;118(3):690–4

Induction of calcium release from sarcoplasmic reticulum of skeletal muscle by xanthone and norathyriol. Kang JJ, et al. **Br J Pharmacol** 1996 Aug;118(7):1736–42

Inhibition by fenamates of calcium influx and proliferation of human lymphocytes. Kankaanranta H, et al. **Br J Pharmacol** 1996 Oct;119(3):487–94

Role of intracellular calcium in fast and slow desensitization of P2-receptors in PC12 cells. Khiroug L, et al. **Br J Pharmacol** 1997 Apr;120(8):1552–60

Dissociation of P2 purinoceptor-mediated increase in intracellular Ca2+ level from myosin light chain phosphorylation and contraction in rat aorta. Kitajima S, et al. **Br J Pharmacol** 1996 Jun;118(3):543–8

Inhibition by ATP of calcium oscillations in rat cultured hippocampal neurones. Koizumi S, et al. **Br J Pharmacol** 1997 Sep;122(1):51–8

Modulation of carbachol-induced [Ca2+]i oscillations by Ca2+ influx in single intestinal smooth muscle cells. Komori S, et al. **Br J Pharmacol** 1996 Sep;119(2):245–52

Noradrenaline synthesis after sympathetic nerve activation in rat atria and its dependence on calcium but not CAM kinase II and protein kinases A or C. Kotsonis P, et al. **Br J Pharmacol** 1996 Dec;119(8):1605–13

Calcium entry and 5-HT2 receptor blockade in oliguric ischaemic acute renal failure: effects of levemopamil in conscious rats. Kramer HJ, et al. **Br J Pharmacol** 1996 Mar;117(6):1348–54

Photolysis of the novel inotropes EMD 57033 and EMD 57439: evidence that Ca2+ sensitization and phosphodiesterase inhibition depend upon the same enantiomeric site. Lee JA, et al. **Br J Pharmacol** 1996 Aug; 118(8):2037–44

Regulation of cytosolic calcium in skeletal muscle cells of the mdx mouse under conditions of stress. Leijendekker WJ, et al. **Br J Pharmacol** 1996 Jun;118(3):611–6

Effect of cyclosporin A and analogues on cytosolic calcium and vasoconstriction: possible lack of relationship to immunosuppressive activity. Lo Russo A, et al. **Br J Pharmacol** 1996 Jun;118(4):885–92

Dual regulation of cerebrovascular tone by UTP: P2U receptor-mediated contraction and endothelium-dependent relaxation. Miyagi Y, et al. **Br J Pharmacol** 1996 Jun; 118(4):847–56

Specific Gq protein involvement in muscarinic M3 receptor-induced phosphatidylinositol hydrolysis and Ca2+ release in mouse duodenal myocytes. Morel JL, et al. **Br J Pharmacol** 1997 Jun;121(3):451–8

Functional evidence of inverse agonism in vascular smooth muscle. Noguera MA, et al. **Br J Pharmacol** 1996 Sep; 119(1):158–64

Thromboxane A2-mediated shape change: independent of Gq-phospholipase C—Ca2+ pathway in rabbit platelets. Ohkubo S, et al. **Br J Pharmacol** 1996 Mar;117(6):1095–104

Characterization of the P2Y-purinoceptor involved in the ATP-induced rise in cytosolic Ca2+ concentration in rat ileal myocytes. Pacaud P, et al. **Br J Pharmacol** 1996 Aug; 118(8):2213–9

Interleukin-1 beta stimulation of 45Ca2+ release from rat striatal slices. Plami M, et al. **Br J Pharmacol** 1996 Aug; 118(7):1705–10

[Ca2+]i oscillations induced by muscarinic stimulation in airway smooth muscle cells: receptor subtypes and correlation with the mechanical activity. Roux E, et al. **Br J Pharmacol** 1997 Apr;120(7):1294–301

Endothelin receptors and their cellular signal transduction mechanism in human cultured prostatic smooth muscle cells. Saita Y, et al. **Br J Pharmacol** 1997 Jun;121(4):687–94

The effect of the calcium-antagonist nitrendipine on intracellular calcium concentration in endothelial cells. Salameh A, et al. **Br J Pharmacol** 1996 Aug; 118(8):1899–904

Characterization of endothelin receptor subtypes mediating Ca2+ mobilization and contractile response in rabbit iris dilator muscle. Satoh M, et al. **Br J Pharmacol** 1996 Mar; 117(6):1277–85

Effects of purinoceptor agonists on cytosolic Ca2+ concentration in swine tracheal smooth muscle cells in culture. Sawai H, et al. **Br J Pharmacol** 1996 Oct; 119(3):539–44

Effects of cyclopiazonic acid and thapsigargin on electromechanical activities and intracellular Ca2+ in smooth muscle of carotid artery of hypertensive rats. Sekiguchi F, et al. **Br J Pharmacol** 1996 Jun;118(4):857–64

Elevation of cytosolic calcium by imidazolines in mouse islets of Langerhans: implications for stimulus-response coupling of insulin release. Shepherd RM, et al. **Br J Pharmacol** 1996 Nov;119(5):911–6

The effect of the PKC inhibitor GF109203X on the release of Ca2+ from internal stores and Ca2+ entry in DDT1 MF-2 cells. Sipma H, et al. **Br J Pharmacol** 1996 Oct; 119(4):730–6

The effects of recombinant rat mu-opioid receptor activation in CHO cells on phospholipase C, [Ca2+]i and adenylyl cyclase. Smart D, et al. **Br J Pharmacol** 1997 Mar; 120(6):1165–71

P2-purinoceptor-mediated formation of inositol phosphates and intracellular Ca2+ transients in human coronary artery smooth muscle cells. Strøbaek D, et al. **Br J Pharmacol** 1996 Aug;118(7):1645–52

5-HT2B receptor-mediated calcium release from ryanodine-sensitive intracellular stores in human pulmonary artery endothelial cells. Ullmer C, et al. **Br J Pharmacol** 1996 Mar;117(6):1081–8

Comparison of the chronic and acute effects of amiodarone on the calcium and potassium currents in rabbit isolated cardiac myocytes. Varró A, et al. **Br J Pharmacol** 1996 Mar;117(6):1181–6

The effect of PPADS as an antagonist of inositol (1,4,5)trisphosphate induced intracellular calcium mobilization. Vigne P, et al. **Br J Pharmacol** 1996 Sep; 119(2):360–4

Effect of membrane hyperpolarization induced by a K+ channel opener on histamine-induced Ca2+ mobilization in rabbit arterial smooth muscle. Watanabe Y, et al. **Br J Pharmacol** 1996 Mar;117(6):1302–8

Effects on K+ currents in rat cerebellar granule neurones of a membrane-permeable analogue of the calcium chelator BAPTA. Watkins CS, et al. **Br J Pharmacol** 1996 Aug; 118(7):1772–8

Two distinct membrane currents activated by cyclopiazonic acid-induced calcium store depletion in single smooth muscle cells of the mouse anococcygeus. Wayman CP, et al. **Br J Pharmacol** 1996 Feb;117(3):566–572

Inhibition by sodium nitroprusside of a calcium store depletion-activated non-selective cation current in smooth muscle cells of the mouse anococcygeus. Wayman CP, et al. **Br J Pharmacol** 1996 Aug;118(8):2001–8

Potent antagonism by BIM-23056 at the human recombinant somatostatin sst5 receptor. Wilkinson GF, et al. **Br J Pharmacol** 1996 Jun;118(3):445–7

Propofol regulation of calcium entry pathways in cultured A10 and rat aortic smooth muscle cells. Xuan YT, et al. **Br J Pharmacol** 1996 Jan;117(1):5–12

Inhibition of 5-hydroxytryptamine-induced phosphoinositide hydrolysis and Ca2+ mobilization in canine cultured tracheal smooth muscle cells by phorbol ester. Yang CM, et al. **Br J Pharmacol** 1997 Jul;121(5):853–60

Oxytocin receptors expressed and coupled to Ca2+ signalling in a human vascular smooth muscle cell line. Yazawa H, et al. **Br J Pharmacol** 1996 Mar;117(5):799–804

The histamine H1 receptor in GT1-7 neuronal cells is regulated by calcium influx and KN-62, a putative inhibitor of calcium/calmodulin protein kinase II. Zamani MR, et al. **Br J Pharmacol** 1996 Jul;118(5):1119–26

The influence of pH on urinary ionized [Ca2+]: differences between urinary tract stone formers and normal subjects. Langley SE, et al. **Br J Urol** 1997 Jan;79(1):8–14

Tumour necrosis factor-alpha increases intracellular Ca2+ and induces a depolarization in cultured astroglial cells. Köller H, et al. **Brain** 1996 Dec;119 (Pt 6):2021–7

Involvement of intracellular Ca2+ during growth hormone-induced priming of human neutrophils. Ryu H, et al. **Brain Behav Immun** 1997 Mar;11(1):39–46

Acute rise in the concentration of free cytoplasmic calcium leads to dephosphorylation of the microtubule-associated protein tau. Adamec E, et al. **Brain Res** 1997 May 16; 757(1):93–101

Both high- and low voltage-activated calcium currents contribute to the light-evoked responses of luminosity horizontal cells in the Xenopus retina. Akopian A, et al. **Brain Res** 1997 Jul 11;762(1-2):121–30

Heterogeneity in cytosolic calcium responses to hypoxia in carotid body cells. Bright GR, et al. **Brain Res** 1996 Jan 15;706(2):297–302

Autofluorescence as a confound in the determination of calcium levels in hippocampal slices using fura-2AM dye. Brooke SM, et al. **Brain Res** 1996 Jan 15;706(2):283–8

Effects of GABA on spontaneous [Ca2+]c dynamics and

electrical properties of rat adrenal chromaffin cells. Busik J, et al. **Brain Res** 1996 Nov 11;739(1-2):97-103

Responsiveness to ATP with an increase in intracellular free Ca2+ is not a distinctive feature of calbindin-D28 immunoreactive neurons in myenteric ganglia. Christofi FL, et al. **Brain Res** 1996 Jul 1;725(2):241-6

Ionic basis of the membrane potential responses of rat dorsal vagal motoneurones to HEPES buffer. Cowan AI, et al. **Brain Res** 1996 Apr 22;717(1-2):69-75

Voltage-dependent Ca2+ influx into identified leech neurones. Dierkes PW, et al. **Brain Res** 1997 Jan 23; 746(1-2):285-93

The influx of Ca2+ and the release of noradrenaline evoked by the stimulation of presynaptic nicotinic receptors of chick sympathetic neurons in culture are not mediated via L-, N-, or P-type calcium channels. Doležal V, et al. **Brain Res** 1996 Nov 18;740(1-2):75-80

Effects of Hg2+ and CH3Hg+ on Ca2+ fluxes in rat brain microsomes. Freitas AJ, et al. **Brain Res** 1996 Nov 4; 738(2):257-64

Chronic alcohol reduces calcium signaling elicited by glutamate receptor stimulation in developing cerebellar neurons. Gruol DL, et al. **Brain Res** 1996 Jul 29; 728(2):166-74

kappa-opioid receptor expression defines a phenotypically distinct subpopulation of astroglia: relationship to Ca2+ mobilization, development, and the antiproliferative effect of opioids. Gurwell JA, et al. **Brain Res** 1996 Oct 21; 737(1-2):175-87

mu-Opioid receptor-induced Ca2+ mobilization and astroglial development: morphine inhibits DNA synthesis and stimulates cellular hypertrophy through a Ca(2+)-dependent mechanism. Hauser KF, et al. **Brain Res** 1996 May 13;720(1-2):191-203

In vivo visualization of hippocampal cells and dynamics of Ca2+ concentration during anoxia: feasibility of a fiber-optic plate microscope system for in vivo experiments. Hirano M, et al. **Brain Res** 1996 Sep 2; 732(1-2):61-8

Calcium mobilization from the intracellular mitochondrial and nonmitochondrial stores of the rat cerebellum. Huang WC, et al. **Brain Res** 1996 Apr 29;718(1-2):151-8

Partial characterization of K(+)-induced increase in [Ca2+]cyt and GnRH release in GT1-7 neurons. Javors MA, et al. **Brain Res** 1995 Oct 2;694(1-2):49-54

Thyrotropin-releasing hormone (TRH) attenuates glutamate-stimulated increases in calcium in primary neuronal cultures. Koenig ML, et al. **Brain Res** 1996 Aug 19;730(1-2):143-9

Calcium oscillations in a subpopulation of S-antigen-immunoreactive pinealocytes of the rainbow trout (Oncorhynchus mykiss). Kroeber S, et al. **Brain Res** 1997 Jan 2;744(1):68-76

Thapsigargin enhances carotid body chemosensory discharge in response to hypoxia in zero [Ca2+]e: evidence for intracellular Ca2+ release. Lahiri S, et al. **Brain Res** 1996 Feb 12;709(1):141-4

Mechanisms of injury-induced calcium entry into peripheral nerve myelinated axons: in vitro anoxia and ouabain exposure. Lehning EJ, et al. **Brain Res** 1995 Oct 2; 694(1-2):158-66

Effects of omega-conotoxin MVIIC on veratridine-induced cytotoxicity and cytosolic Ca(2+) oscillations. Maroto R, et al. **Brain Res** 1996 Apr 1;714(1-2):209-14

Ethanol actions on the mechanisms of Ca2+ mobilization in rat hippocampal cells are mediated by protein kinase C. Mironov SL, et al. **Brain Res** 1996 Apr 1;714(1-2):27-37

Flow-cytometric estimation on glutamate- and kainate-induced increases in intracellular Ca2+ of brain neurons: a technical aspect. Oyama Y, et al. **Brain Res** 1996 Jul 22;728(1):121-4

Contribution of plasma membrane and endoplasmic reticulum Ca(2+)-ATPases to the synaptosomal [Ca2+]i increase during oxidative stress. Pereira C, et al. **Brain Res** 1996 Mar 25;713(1-2):269-77

Aggregates of a beta-amyloid peptide are required to induce calcium currents in neuron-like human teratocarcinoma cells: relation to Alzheimer's disease. Sanderson KL, et al. **Brain Res** 1997 Jan 2;744(1):7-14

Determinants of the stimulatory opioid effect on intracellular calcium in SK-N-SH and NG108-15 neuroblastoma. Sarne Y, et al. **Brain Res** 1996 May 25;722(1-2):203-6

Voltage-sensitive calcium channels mediate calcium entry into cultured mammalian sympathetic neurons following neurite transection. Sattler R, et al. **Brain Res** 1996 May 6;719(1-2):239-46

Serotonin and 8-OH-DPAT reduce excitatory transmission in rat hippocampal area CA1 via reduction in presumed presynaptic Ca2+ entry. Schmitz D, et al. **Brain Res** 1995 Dec 1;701(1-2):249-54

Arachidonic acid regulation of vasopressin release and intracellular Ca2+ in neurohypophysial nerve endings. Stuenkel EL, et al. **Brain Res** 1996 Dec 2;742(1-2):129-40

Gonadotropin releasing hormone modulates gamma-aminobutyric acid-evoked intracellular calcium increase in immortalized hypothalamic gonadotropin releasing hormone neurons. Sun W, et al. **Brain Res** 1997 Jan 30;747(1):70-7

Calcium in suramin-induced rat sensory neuron toxicity in vitro. Sun X, et al. **Brain Res** 1996 Dec 2;742(1-2):149-56

Superoxide free radical and intracellular calcium mediate A beta(1-42) induced endothelial toxicity. Suo Z, et al. **Brain Res** 1997 Jul 11;762(1-2):144-52

A flow cytometric study of N-methyl-D-aspartate effects on dissociated cerebellar cells. Sureda FX, et al. **Brain Res** 1996 Jun 3;723(1-2):110-4

Chlorpromazine reduces toxicity and Ca2+ uptake induced by amyloid beta protein (25-35) in vitro. Ueda K, et al. **Brain Res** 1997 Feb 14;748(1-2):184-8

Glucose availability alters ischaemia-induced changes in intracellular pH and calcium of isolated rat spinal roots. Wächtler J, et al. **Brain Res** 1996 Jun 24;725(1):30-6

Ethanol and nerve growth factor effects on calcium homeostasis in cultured embryonic rat medial septal neurons before and during depolarization. Webb B, et al. **Brain Res** 1995 Dec 1;701(1-2):61-74

Calcium homeostasis in cultured embryonic rat septohippocampal neurons is altered by ethanol and nerve growth factor before and during depolarization. Webb B, et al. **Brain Res** 1996 Aug 12;729(2):176-89

Simultaneous blockade of intracellular calcium increases and of neuronal epileptiform depolarizations by verapamil. Wiemann M, et al. **Brain Res** 1996 Sep 23;734(1-2):49-54

Synergistic interactions between noradrenaline and glutamate in cytosolic calcium influx in cultured visual cortical neurons. Yang B, et al. **Brain Res** 1996 May 20; 721(1-2):181-90

Thrombin receptor on rat primary hippocampal neurons: coupled calcium and cAMP responses. Yang Y, et al. **Brain Res** 1997 Jun 27;761(1):11-8

Extracellular Mg2+ modulates intracellular Ca2+ in acutely isolated hippocampal CA1 pyramidal cells of the guinea-pig. Zhang A, et al. **Brain Res** 1996 Jul 29; 728(2):204-8

Differential effects of the M1-M5 muscarinic acetylcholine receptor subtypes on intracellular calcium and on the incorporation of choline into membrane lipids in genetically modified Chinese hamster ovary cell lines. Doležal V, et al. **Brain Res Bull** 1997;42(1):71-8

The activation of calcium/calmodulin-dependent protein kinase II after glutamate or potassium stimulation in hippocampal slices. Tan SE, et al. **Brain Res Bull** 1997; 43(3):269-73

Spatial organization of calcium dynamics in growth cones of sensory neurones. Amato A, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):101-10

Developmental switch in phenotypic expression of preproenkephalin mRNA and 45Ca2+ accumulation following kainate-induced status epilepticus. Friedman LK. **Brain Res Dev Brain Res** 1997 Jul 18;101(1-2):287-93

Biochemical and functional characterization of the synaptic vesicle-associated form of CA2+/calmodulin-dependent protein kinase II. Benfenati F, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):297-309

Ca2+ entry following store depletion in SH-SY5Y neuroblastoma cells. Grudt TJ, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):93-100

Molecular mechanism of regulation of pentylenetetrazol-induced calcium entry by 3'-untranslated region of a seizure-related cDNA, PTZ-17, in Xenopus oocytes. Kajiwara K, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):49-58

The endogenous benzodiazepine receptor ligand ODN increases cytosolic calcium in cultured rat astrocytes. Lamacz M, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1-2):290-6

Glucocorticoid interactions with ethanol effects on depolarization-induced calcium influx in brain synaptosomes. Sze PY. **Brain Res Mol Brain Res** 1996 Apr; 37(1-2):231-8

Nitric oxide increases calcium/calmodulin-dependent phosphorylation of proteins in the postsynaptic density of adult rat cerebral cortex. Wu K, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):22-6

A method to estimate mitochondrial Ca2+ uptake in intact cardiac myocytes. Bassani JW, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1699-707

CeReS-18, a novel cell surface sialoglycopeptide, induces cell cycle arrest and apoptosis in a calcium-sensitive manner. Betz NA, et al. **Breast Cancer Res Treat** 1997 Jan; 42(2):137-48

Cadmium and calcium uptake in the mollusc Donax rugosus and effect of a calcium channel blocker. Sidoumou Z, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):318-25

Parallel computation enables precise description of Ca2+ distribution in nerve terminals. Aharon S, et al. **Bull Math Biol** 1996 Nov;58(6):1075-97

Extracellular matrix proteins induce changes in intracellular calcium and cyclic AMP signalling systems in cultured human keratinocytes. Goberdhan NJ, et al. **Burns** 1997 Mar;23(2):122-30

Persistence of complexed acidic phospholipids in rapidly mineralizing tissues is due to affinity for mineral and resistance to hydrolytic attack: in vitro data. Boskey AL, et al. **Calcif Tissue Int** 1996 Jan;58(1):45-51

Differences in vitamin D status and calcium intake: possible explanations for the regional variations in the prevalence of hypercalcemia in tuberculosis. Chan TY. **Calcif Tissue Int** 1997 Jan;60(1):91-3

1alpha-hydroxyvitamin D2 partially dissociates between preservation of cancellous bone mass and effects on calcium homeostasis in ovariectomized rats. Erben RG, et al. **Calcif Tissue Int** 1997 May;60(5):449-56

Calcium intake, calcium absorption, and osteoporosis [editorial] Fujita T. **Calcif Tissue Int** 1996 Apr;58(4):215 (7 ref.)

Voltage-gated calcium channels and nonvoltage-gated calcium uptake pathways in the rat incisor odontoblast plasma membrane. Lundgren T, et al. **Calcif Tissue Int** 1997 Jan;60(1):79-85

Effects of calcium on gap junctions between osteoblast-like cells in culture. Schirrmacher K, et al. **Calcif Tissue Int** 1996 Oct;59(4):259-64

The effects of brisk walking on markers of bone and calcium metabolism in postmenopausal women. Thorsen K, et al. **Calcif Tissue Int** 1996 Apr;58(4):221-5

Effects of magnesium deficiency on magnesium and calcium content in bone and cartilage in developing rats in correlation to chondrotoxicity. Vormann J, et al. **Calcif Tissue Int** 1997 Sep;61(3):230-8

Role of calcium-activated neutral protease (calpain) with diet and exercise. Belcastro AN, et al. **Can J Appl Physiol** 1996 Oct;21(5):328-46 (51 ref.)

Responses of heart function and intracellular free Ca2+ to phosphatidic acid in chronic diabetes. Xu YJ, et al. **Can J Cardiol** 1996 Oct;12(10):1092-8

Evidence from incorporation and patch-clamp experiments for a nonselective channel of large conductance at the luminal membrane of rabbit proximal tubule. Bellemare F, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):265-72

Depressed smooth muscle contractility after massive intestinal resection in rat: role of alterations in muscarinic receptor status or source of calcium for excitation-contraction coupling. Chin BC, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1187-95

Selective inhibition of oxalate-stimulated Ca2+ transport by cyclopiazonic acid and thapsigargin in smooth muscle microsomes. Darby PJ, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):182-92

Bromobenzene and furosemide hepatotoxicity: alterations in glutathione, protein thiols, and calcium. Grewal KK, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):257-64

Effects of acute and long-term administration of prolactin on bone 45Ca uptake, calcium deposit, and calcium resorption in weaned, young, and mature rats. Krishnamra N, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1157-65

Role of tyrosine kinase on Ca2+ entry and refilling of agonist-sensitive Ca2+ stores in vascular smooth muscles. Low AM. **Can J Physiol Pharmacol** 1996 Mar; 74(3):298-304

Canine bronchial sustained contraction in Ca2+-free medium: role of intracellular Ca2+. Montaño LM, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1236-48

Enhancement of calcium cycling by atrial sarcoplasmic reticulum after cardiopulmonary bypass and cardioplegia during open heart surgery. O'Brien PJ, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):143-52

Sarcoplasmic reticulum Ca2+ uptake is not decreased in aorta from deoxycorticosterone acetate hypertensive rats: functional assessment with cyclopiazonic acid. Tostes RC, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1536-45

Prevention and management of osteoporosis: consensus statements from the Scientific Advisory Board of the Osteoporosis Society of Canada. 4. Calcium nutrition and osteoporosis [see comments] Murray TM. **Can Med Assoc J** 1996 Oct 1;155(7):935-9 (32 ref.). Comment in: Can Med Assoc J 1997 May 1;156(9):1269.

Hypocalcemia associated with 5-fluorouracil and low dose leucovorin in patients with advanced colorectal or gastric carcinomas. Kido Y, et al. **Cancer** 1996 Oct 15;78(8):1794-7

Cisplatin-induced inhibition of the calcium-calmodulin complex, neuronal nitric oxide synthase activation and their role in stomach distention. Jarve RK, et al. **Cancer Chemother Pharmacol** 1997;39(4):341-8

Effects of alterations in calcium homeostasis on apoptosis during neoplastic progression. Preston GA, et al. **Cancer Res** 1997 Feb 1;57(3):537-42

Carcinogenic polycyclic aromatic hydrocarbons increase intracellular Ca2+ and cell proliferation in primary human mammary epithelial cells. Tannheimer SL, et al. **Carcinogenesis** 1997 Jun;18(6):1177-82

Iloprost antagonizes the increase in internal calcium concentration induced by alpha-thrombin in human platelets: a study of desensitization. Cecchi E, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):773-7

Mechanisms of alterations in cardiac membrane Ca2+ transport due to excess catecholamines. Dhalla KS, et al. **Cardiovasc Drugs Ther** 1996 Jun;10 Suppl 1:231-8 (24 ref.)

Blockade of receptor-operated calcium channels by mibefradil (Ro 40-5967): effects on intracellular calcium and platelet aggregation. Hahn M, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):815-21

Pyruvate reverses fatty-acid-induced depression of ventricular function and calcium overload after hypothermia in guinea pig hearts. Aasum E, et al. **Cardiovasc Res** 1997 Feb;33(2):370-7

Effects of inhibition of sarcoplasmic reticulum calcium uptake on contraction in myocytes isolated from failing human ventricle. Davia K, et al. **Cardiovasc Res** 1997 Jan; 33(1):88-97

The role of cAMP- and cGMP-dependent protein kinases in the cardiac actions of the new calcium sensitizer, levosimendan. Haikala H, et al. **Cardiovasc Res** 1997 Jun; 34(3):536-46

Cytosolic Ca2+ concentration decreases in diabetic rat myocytes. Hayashi H, et al. **Cardiovasc Res** 1997 Apr;

34(1):99–103 (53 ref.)
Ca(2+)- and caffeine-induced Ca2+ release from the sarcoplasmic reticulum in rat skinned trabeculae: effects of pH and Pi. Kentish JC, et al. **Cardiovasc Res** 1997 Feb; 33(2):314–23
Effect of developed tension on the time courses of Ca2+ transients and tension in twitch contraction in ferret myocardium. Komukai K, et al. **Cardiovasc Res** 1996 Aug; 32(2):384–90
Effect of internal sodium and cellular calcium load on voltage-dependence of the Indo-1 transient in guinea-pig ventricular myocytes. Levi AJ, et al. **Cardiovasc Res** 1996 Sep;32(3):534–50
Frequency dependent effects on Cai transients and cell shortening in myocytes that survive in the infarcted heart. Licata A, et al. **Cardiovasc Res** 1997 Feb;33(2):341–50
Modulation of L-type calcium current by internal potassium in guinea pig ventricular myocytes. Linz KW, et al. **Cardiovasc Res** 1997 Jan;33(1):110–22
The novel inotropic agent CGP 48506 alters force primarily by Ca(2+)-independent mechanisms in porcine skinned trabeculae. Palmer S, et al. **Cardiovasc Res** 1996 Aug; 32(2):411–21
Glucose elevations alter bradykinin-stimulated intracellular calcium accumulation in cultured endothelial cells. Pieper GM, et al. **Cardiovasc Res** 1997 Apr;34(1):169–78
Regulation of intracellular Ca2+ in the heart during diabetes. Pierce GN, et al. **Cardiovasc Res** 1997 Apr;34(1):41–7 (99 ref.)
Effects of elevating [Na]i on membrane currents of canine ventricular myocytes: role of intracellular Ca ions. Saxena NC, et al. **Cardiovasc Res** 1997 Mar;33(3):548–60
Mechanisms underlying depressed Na+/Ca2+ exchanger activity in the diabetic heart. Schaffer SW, et al. **Cardiovasc Res** 1997 Apr;34(1):129–36
Effect of brief hypoxia on reperfusion arrhythmias and release of Ca2+ by rat heart homogenate blocked by ryanodine. Tani M, et al. **Cardiovasc Res** 1996 Feb;31(2):263–9
Oxidative effects of selenite on rat ventricular contractility and Ca movements. Turan B, et al. **Cardiovasc Res** 1996 Aug;32(2):351–61
Ca-dependence of isometric force kinetics in single skinned ventricular cardiomyocytes from rats. Vannier C, et al. **Cardiovasc Res** 1996 Sep;32(3):580–6
Contribution of sarcolemmal calcium current to total cellular calcium in postnatally developing rat heart. Vornanen M. **Cardiovasc Res** 1996 Aug;32(2):400–10
Restitution of contractility in single ventricular myocytes of guinea pig heart. Vornanen M, et al. **Cardiovasc Res** 1997 Mar;33(3):611–22
Effect of chloride channel blockers on the cardiac CFTR chloride and L-type calcium currents. Walsh KB, et al. **Cardiovasc Res** 1996 Aug;32(2):391–9
Intracellular calcium levels are unchanged in the diabetic heart. Yu JZ, et al. **Cardiovasc Res** 1997 Apr;34(1):91–8 (74 ref.)
The role of cation bridging in microbial fluoride binding. Rose RK, et al. **Caries Res** 1996;30(6):458–64
Competitive binding of calcium, magnesium and zinc to Streptococcus sanguis and purified S. sanguis cell walls. Rose RK. **Caries Res** 1996;30(1):71–5
Mitochondria are excitable organelles capable of generating and conveying electrical and calcium signals. Ichas F, et al. **Cell** 1997 Jun 27;89(7):1145–53
Ca2+ flow via tunnels in polarized cells: recharging of apical Ca2+ stores by focal Ca2+ entry through basal membrane patch. Mogami H, et al. **Cell** 1997 Jan 10;88(1):49–55
The store-operated calcium current I(CRAC): nonlinear activation by InsP3 and dissociation from calcium release. Parekh AB, et al. **Cell** 1997 Jun 13;89(6):973–80
Altered Ca2+ responses in muscles with combined mitochondrial and cytosolic creatine kinase deficiencies. Steeghs K, et al. **Cell** 1997 Apr 4;89(1):93–103
Calcium-induced restructuring of nuclear envelope and endoplasmic reticulum calcium stores. Subramanian K, et al. **Cell** 1997 Jun 13;89(6):963–71
Temperature dependency of calcium responses in mammary tumour cells. Oosawa Y, et al. **Cell Biochem Funct** 1997 Jun;15(2):113–7
Effects of staurosporine on the capacitative regulation of the state of the Ca2+ reserves in activated Jurkat T lymphocytes. Ahnadi CE, et al. **Cell Calcium** 1996 Jun; 19(6):509–20
Functional evidence for the regulation of cytosolic Ca2+ activity via V1A-receptors and beta-adrenoceptors in rat CCD. Ankorina-Stark I, et al. **Cell Calcium** 1997 Feb; 21(2):163–71
A ryanodine-sensitive calcium store in ascidian eggs monitored by whole-cell patch-clamp recordings. Arnoult C, et al. **Cell Calcium** 1997 Feb;21(2):93–101
Injection of rat hepatocyte poly(A)+ RNA to Xenopus laevis oocytes leads to expression of a constitutively-active divalent cation channel distinguishable from endogenous receptor-activated channels. Auld AM, et al. **Cell Calcium** 1996 May;19(5):439–52
Measurement of membrane potential and myoplasmic [Ca2+] in developing rat myotubes at rest and in response to stimulation. Bakker AJ, et al. **Cell Calcium** 1996 May; 19(5):409–18
Time course of calcium transients derived from Fura-2 fluorescence measurements in single fast twitch fibres of adult mice and rat myotubes developing in primary culture. Bakker AJ, et al. **Cell Calcium** 1997 May;21(5):359–64
Distribution of Ca2+ extrusion sites on the mouse pancreatic acinar cell surface. Belan P, et al. **Cell Calcium** 1997 Jul; 22(1):5–10
Excitation-contraction coupling of cultured human skeletal muscle cells and the relation between basal cytosolic Ca2+ and excitability. Benders AA, et al. **Cell Calcium** 1997 Jan; 21(1):81–91
Agonist-stimulated calcium transients in PC12 cells are affected differentially by cadmium and nickel. Benters J, et al. **Cell Calcium** 1996 Nov;20(5):441–6
AR4-2J cell line coexpresses dihydropyridine and omega-conotoxin sensitive Ca2+ channels. Bertrand V, et al. **Cell Calcium** 1996 Jun;19(6):495–500
cGMP is not required for capacitative Ca2+ entry in Jurkat T-lymphocytes. Bian X, et al. **Cell Calcium** 1996 Apr; 19(4):351–4
Effect of cytoplasmic Ca2+ on (1,4,5)IP3 formation in vasopressin-activated hepatocytes. Bird GS, et al. **Cell Calcium** 1997 Mar;21(3):253–6
Does nitric oxide regulate capacitative Ca influx in HEK 293 cells? Bischof G, et al. **Cell Calcium** 1997 Feb; 21(2):135–42
Spatial gradients of cytosolic calcium concentration in neurones during paradoxical activation by calcium. Bolsover SR, et al. **Cell Calcium** 1996 Oct;20(4):373–9
Ether lipid-induced cell damage of neuroblastoma cells is only weakly correlated with increased intracellular Ca2+ levels. Brinkmeier H, et al. **Cell Calcium** 1996 May; 19(5):383–90
P2u purinoceptor modulation of intracellular Ca2+ in a human lung adenocarcinoma cell line: down-regulation of Ca2+ influx by protein kinase C. Clunes MT, et al. **Cell Calcium** 1996 Oct;20(4):339–46
Myoblast fusion requires cytosolic calcium elevation but not activation of voltage-dependent calcium channels. Constantin B, et al. **Cell Calcium** 1996 May;19(5):365–74
Correlation between cytosolic Ca2+ concentration, protein phosphorylation and platelet secretion. Dalla Via L, et al. **Cell Calcium** 1996 Nov;20(5):431–40
Gap junctions mediate intercellular calcium signalling in cultured articular chondrocytes. D'Andrea P, et al. **Cell Calcium** 1996 Nov;20(5):389–97
Regulation of intracellular calcium is closely linked to glucose metabolism in J774 macrophages. Darbha S, et al. **Cell Calcium** 1996 Oct;20(4):361–71
Bcl-2 acts subsequent to and independent of Ca2+ fluxes to inhibit apoptosis in thapsigargin- and glucocorticoid-treated mouse lymphoma cells. Distelhorst CW, et al. **Cell Calcium** 1996 Jun;19(6):473–83
Alpha-parvalbumin reduces depolarization-induced elevations of cytosolic free calcium in human neuroblastoma cells. Dreessen J, et al. **Cell Calcium** 1996 Jun;19(6):527–33
Ca2+ effluxes from the sarcoplasmic reticulum vesicles of frog muscle: effects of cyclopiazonic acid and thapsigargin. Du GG, et al. **Cell Calcium** 1996 Oct;20(4):355–9
Nuclear versus perinuclear and cytoplasmic calcium in osteoclasts. Ferrier J, et al. **Cell Calcium** 1996 Nov; 20(5):381–8
Inhibition of store-dependent capacitative Ca2+ influx by unsaturated fatty acids. Gamberucci A, et al. **Cell Calcium** 1997 May;21(5):375–85
The amount of acetylcholine mobilisable Ca2+ in single smooth muscle cells measured with the exogenous cytoplasmic Ca2+ buffer, Indo-1. Ganitkevich VY. **Cell Calcium** 1996 Dec;20(6):483–92
High cytoplasmic Ca2+ levels reached during Ca(2+)-induced Ca2+ release in single smooth muscle cell as reported by a low affinity Ca2+ indicator Mag-Indo-1. Ganitkevich VYa, et al. **Cell Calcium** 1996 May;19(5):391–8
Control of the pyridine nucleotide-linked Ca2+ release from mitochondria by respiratory substrates. Gogvadze V, et al. **Cell Calcium** 1996 Jun;19(6):521–6
Inhibition of mitochondrial calcium efflux by clonazepam in intact single rat cardiomyocytes and effects on NADH production. Griffiths EJ, et al. **Cell Calcium** 1997 Apr; 21(4):321–9
Intracellular chelation of calcium prevents cell damage following severe hypoxia in the rat cerebral cortex as studied by NMR spectroscopy ex vivo. Gröhn O, et al. **Cell Calcium** 1996 Dec;20(6):509–14
Characterization of the maitotoxin-induced calcium influx pathway from human skin fibroblasts. Gutierrez D, et al. **Cell Calcium** 1997 Jul;22(1):31–8
Excitation of Drosophila photoreceptors by BAPTA and ionomycin: evidence for capacitative Ca2+ entry? Hardie RC. **Cell Calcium** 1996 Oct;20(4):315–27
Activation of the nitric oxide/cGMP pathway is required for refilling intracellular Ca2+ stores in a sympathetic neuron cell line. Harrington MA, et al. **Cell Calcium** 1996 May;19(5):399–407
Involvement of mitochondria in intracellular calcium sequestration by rat gonadotropes. Hehl S, et al. **Cell Calcium** 1996 Dec;20(6):515–24
Okadaic acid induces the release of Ca2+ from intracellular stores in ECV304 endothelial cells. Hepworth TJ, et al. **Cell Calcium** 1997 Jun;21(6):461–7
Characterization of an oxytocin-induced rise in [Ca2+]i in single human myometrium smooth muscle cells. Holda JR, et al. **Cell Calcium** 1996 Jul;20(1):43–51
Receptor-dependent G protein-mediated Ca2+ sensitization in canine airway smooth muscle. Iizuka K, et al. **Cell Calcium** 1997 Jul;22(1):21–30
SK&F 96365 inhibits intracellular Ca2+ pumps and raises cytosolic Ca2+ concentration without production of nitric oxide and von Willebrand factor. Iouzalen L, et al. **Cell Calcium** 1996 Dec;20(6):501–8
Redox modulation of calcium entry and release of intracellular calcium by thimerosal in GH4C1 pituitary cells. Karhapää L, et al. **Cell Calcium** 1996 Dec; 20(6):447–57
Temperature modulates the Ca2+ current of HIT-T15 and mouse pancreatic beta-cells. Kinard TA, et al. **Cell Calcium** 1996 Dec;20(6):475–82
Crosstalk between cellular morphology and calcium oscillation patterns. Insights from a stochastic computer model. Kraus M, et al. **Cell Calcium** 1996 Jun;19(6):461–72
Mechanism of action of the non-steroidal anti-inflammatory drug flufenamate on [Ca2+]i and Ca(2+)-activated currents in neurons. Lee RJ, et al. **Cell Calcium** 1996 May; 19(5):431–8
Protein kinase C induced calcium influx and sustained enhancement of ciliary beating by extracellular ATP. Levin R, et al. **Cell Calcium** 1997 Feb;21(2):103–13
Oscillations of cytosolic free calcium in bombesin-stimulated HIT-T15 cells. Li G, et al. **Cell Calcium** 1996 Jun; 19(6):535–46
Calcium oscillations in melanotrope cells of Xenopus laevis are differentially regulated by cAMP-dependent and cAMP-independent mechanisms. Lieste JR, et al. **Cell Calcium** 1996 Oct;20(4):329–37
Can the Indo-1 fluorescence approach measure brain intracellular calcium in vivo? A multiparametric study of cerebrocortical anoxia and ischemia. Ligeti L, et al. **Cell Calcium** 1997 Feb;21(2):115–24
The effects of temperature upon calcium exchange in intact cultured cardiac myocytes. Marengo FD, et al. **Cell Calcium** 1997 Apr;21(4):263–73
Glucose-induced [Ca2+]i oscillations in single human pancreatic islets. Martín F, et al. **Cell Calcium** 1996 Nov; 20(5):409–14
Modulation of presynaptic calcium homeostasis by nitric oxide. Martínez-Serrano A, et al. **Cell Calcium** 1996 Sep; 20(3):293–302
Spontaneous and gonadotropin-releasing hormone-stimulated cytosolic calcium rises in individual goldfish gonadotrophs. Mollard P, et al. **Cell Calcium** 1996 Nov;20(5):415–24
High [Ca2+]i domains, secretory granules and exocytosis. Muallem S, et al. **Cell Calcium** 1997 Jul;22(1):1–4 (28 ref.)
Bradykinin regulates the histamine-induced Ca2+ mobilization via protein kinase C activation in human gingival fibroblasts. Niisato N, et al. **Cell Calcium** 1997 May;21(5):345–52
Kinetic and pharmacological properties of the calcium-activated chloride-current in macrovascular endothelial cells. Nilius B, et al. **Cell Calcium** 1997 Jul; 22(1):53–63
Biochemical and functional heterogeneity of rat cerebrum microsomal membranes in relation to SERCA Ca(2+)-ATPases and Ca2+ release channels. Nori A, et al. **Cell Calcium** 1996 May;19(5):375–81
Characteristics of cytosolic Ca2+ elevation induced by muscarinic receptor activation in single adrenal chromaffin cells of the guinea pig. Ohta T, et al. **Cell Calcium** 1996 Sep;20(3):303–14
Rapid down regulation of Ca2+ signals induced by endothelin-1 in a human bronchial epithelial cell line. Oles M, et al. **Cell Calcium** 1997 Mar;21(3):221–31
Sphingosine-induced inhibition of capacitative calcium influx in CFPAC-1 cells. Orlati S, et al. **Cell Calcium** 1996 Nov; 20(5):399–407
Interactions between inositol trisphosphate and Ca2+ dependent Ca2+ release mechanisms on the endoplasmic reticulum of permeabilised bovine aortic endothelial cells. Otun H, et al. **Cell Calcium** 1996 Apr;19(4):315–25
Temperature dependence of agonist-stimulated Ca2+ signaling in cultured endothelial cells. Paltauf-Doburzynska J, et al. **Cell Calcium** 1997 Jan; 21(1):43–51
Elementary events of InsP3-induced Ca2+ liberation in Xenopus oocytes: hot spots, puffs and blips. Parker I, et al. **Cell Calcium** 1996 Aug;20(2):105–21 (44 ref.)
Nucleoplasmic and cytoplasmic differences in the fluorescence properties of the calcium indicator Fluo-3. Perez-Terzic C, et al. **Cell Calcium** 1997 Apr;21(4):275–82
Mn2+ can substitute for Ca2+ in causing catecholamine secretion but not for increasing tyrosine hydroxylase phosphorylation in bovine adrenal chromaffin cells. Powis DA, et al. **Cell Calcium** 1996 May;19(5):419–29
Measurement of changes in sarcoplasmic reticulum [Ca2+] in rat tail artery with targeted apoaequorin delivered by an adenoviral vector. Rembold CM, et al. **Cell Calcium** 1997 Jan;21(1):69–79
Synchronized Ca2+ oscillations induced in Madin Darby canine kidney cells by bradykinin and thrombin but not by ATP. Røttingen JA, et al. **Cell Calcium** 1997 Mar; 21(3):195–211
Inositol-phosphoglycan inhibits calcium oscillations in hepatocytes by reducing calcium entry. Sanchez-Bueno A, et al. **Cell Calcium** 1997 Feb;21(2):125–33
Effects of 1-methyladenine on nuclear Ca2+ transients and

meiosis resumption in starfish oocytes are mimicked by the nuclear injection of inositol 1,4,5-trisphosphate and cADP-ribose. Santella L, et al. **Cell Calcium** 1997 Jul; 22(1):11-20

Hypertonic glucose impairs glucose-induced increases in cytosol Ca2+ concentration and insulin secretion by HIT-T 15 cells. Sato N, et al. **Cell Calcium** 1996 Sep; 20(3):273-8

Generation of repetitive Ca2+ transients by bombesin requires intracellular release and influx of Ca2+ through voltage-dependent and voltage independent channels in single HIT cells. Schöfl C, et al. **Cell Calcium** 1996 Jun; 19(6):485-93

Use of La3+ to distinguish activity of the plasmalemmal Ca2+ pump from Na+/Ca2+ exchange in arterial myocytes. Shimizu H, et al. **Cell Calcium** 1997 Jan; 21(1):31-41

Recovery from TPA inhibition of receptor-mediated Ca2+ mobilization is paralleled by down-regulation of protein kinase C-alpha in CHO cells expressing the CCK-A receptor. Smeets RL, et al. **Cell Calcium** 1996 Jul;20(1):1-9

cAMP-induced changes in the cytosolic free Ca2+ concentration in Dictyostelium discoideum are light sensitive. Sonnemann J, et al. **Cell Calcium** 1997 Jul; 22(1):65-74

Mechanisms involved in ATP-evoked Ca2+ oscillations in isolated human granulosa-luteal cells. Squires PE, et al. **Cell Calcium** 1997 May;21(5):365-74

Nitric oxide activates skeletal and cardiac ryanodine receptors. Stoyanovsky D, et al. **Cell Calcium** 1997 Jan; 21(1):19-29

Norepinephrine-mediated calcium signaling is altered in vascular smooth muscle of diabetic rat. Tam ES, et al. **Cell Calcium** 1997 Feb;21(2):143-50

[Ca2+]i oscillations and [Ca2+]i waves in rat megakaryocytes. Tertyshnikova S, et al. **Cell Calcium** 1997 May;21(5):331-44

Bergmann glial cells in situ express endothelinB receptors linked to cytoplasmic calcium signals. Tuschick S, et al. **Cell Calcium** 1997 Jun;21(6):409-19

A method for measuring sarcoplasmic reticulum calcium uptake in the skeletal muscle using Fura-2. Warmington SA, et al. **Cell Calcium** 1996 Jul;20(1):73-82

Quantal calcium release in electropermeabilized SH-SY5Y neuroblastoma cells perfused with myo-inositol 1,4,5-trisphosphate. Wilcox RA, et al. **Cell Calcium** 1996 Sep;20(3):243-55

Propagation of calcium waves between colonic smooth muscle cells in culture. Young SH, et al. **Cell Calcium** 1996 Sep;20(3):257-71

Transforming growth factor beta modulation of the epidermal growth factor Ca2+ signal and c-Fos oncoprotein levels in A431 human epidermoid carcinoma cells. Elliget KA, et al. **Cell Growth Differ** 1996 Apr; 7(4):461-8

Early calcium signaling and calcium requirements for the IL-2 receptor expression and IL-2 production in stimulated lymphocytes. Komada H, et al. **Cell Immunol** 1996 Nov 1;173(2):215-20

Association of serine protease with the rise of intracellular calcium in cytotoxic T lymphocytes. Koo GC, et al. **Cell Immunol** 1996 Dec 15;174(2):107-15

MHC class I is functionally associated with antigen receptors in human T and B lymphomas. Pedersen AE, et al. **Cell Immunol** 1996 Nov 1;173(2):295-302

Extracellular ATP induces cytosolic calcium oscillations associated with an increase in intracellular pH in human Chang liver cells. Bay BH. **Cell Mol Biol (Noisy-le-grand)** 1997 Jun;43(4):521-8

Lead reduces depolarization-induced calcium entry in cultured DRG neurons without crossing the cell membrane: fura-2 measurements. Domann R, et al. **Cell Mol Neurobiol** 1997 Jun;17(3):305-14

Low concentrations of ouabain stimulate Na/Ca exchange in neurons. Saghian AA, et al. **Cell Mol Neurobiol** 1996 Aug;16(4):489-98

Ca2+ stores in the chick embryo retina cells. Cristóvão AJ, et al. **Cell Signal** 1997 Jan;9(1):97-103

InsP3-dependent Ca2+ oscillations linked to activation of voltage-dependent H+ conductance in Rana esculenta oocytes. Humez S, et al. **Cell Signal** 1996 Aug;8(5):375-9

Effect of forskolin on bradykinin-induced calcium mobilization in cultured canine tracheal smooth muscle cells. Luo SF, et al. **Cell Signal** 1997 Feb;9(2):159-67

A caffeine/ryanodine-sensitive Ca2+ pool is involved in triggering spontaneous variations of Ca2+ in Jurkat T lymphocytes by a Ca(2+)-induced Ca2+ release (CICR) mechanism. Ricard I, et al. **Cell Signal** 1997 Feb; 9(2):197-206

Phosphatidic acid binding to human neutrophils: effects on tyrosine kinase-regulated intracellular Ca2+ mobilization. Siddiqui RA, et al. **Cell Signal** 1996 Aug;8(5):349-54

Glucose, potassium, and CCK-8 induce increases in membrane-associated PKC activity that correspond to increases in [Ca2+]i in islet cells from neonatal rats. Wang J, et al. **Cell Signal** 1996 Jun;8(4):305-11

Effect of cytokines on thrombin-stimulated increases in intracellular calcium and PGI2 production by cultured human umbilical vein endothelial cells. Watanabe K, et al. **Cell Signal** 1996 Jun;8(4):247-51

Activation of chicken gizzard myosin light chain kinase by Ca2+/calmodulin is inhibited by autophosphorylation. Abe M, et al. **Cell Struct Funct** 1996 Jun;21(3):183-8

The use of the divalent calcium-ionophore A23187 as a biochemical tool in pharmacological and in vitro toxicological studies. Boot JH, et al. **Cell Struct Funct** 1996 Apr;21(2):97-9

Regulation of melatonin production and intracellular calcium concentrations in the trout pineal organ. Meissl H, et al. **Cell Tissue Res** 1996 Dec;286(3):315-23

Effects of carbachol and catecholamines on ultrastructure and intracellular calcium-ion dynamics of acinar and myoepithelial cells of lacrimal glands. Satoh Y, et al. **Cell Tissue Res** 1997 Sep;289(3):473-85

Calcium transport and the localisation of calbindin-D9k in the ruminant placenta during the second half of pregnancy. Wooding FBP, et al. **Cell Tissue Res** 1996 Sep; 285(3):477-89

7-Deaza cyclic adenosine 5'-diphosphate ribose: first example of a Ca(2+)-mobilizing partial agonist related to cyclic adenosine 5'-diphosphate ribose. Bailey VC, et al. **Chem Biol** 1997 Jan;4(1):51-61

Photodegradation of indo-1 and its effect on apparent Ca2+ concentrations. Scheenen WJ, et al. **Chem Biol** 1996 Sep; 3(9):765-74

Interrelationship between cellular calcium homeostasis and free radical generation in myocardial reperfusion injury. Bagchi D, et al. **Chem Biol Interact** 1997 May 2; 104(2-3):65-85 (99 ref.)

gamma-Pyrones from Gonystylus keithii, as new inhibitors of parathyroid hormone (PTH)-induced Ca release from neonatal mouse calvaria. Kanazawa T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):1046-51

Intracellular calcium increase in gerbil taste cell by amino acid sweeteners. Uchida Y, et al. **Chem Senses** 1997 Feb; 22(1):83-91

Separate activation of intracellular Ca2+ release, voltage-dependent and receptor-operated Ca2+ channels in the rat aorta. Huang Y, et al. **Chin J Physiol** 1996; 39(1):1-8

Effects of extracellular ATP on Ca2+ mobilization in Madin Darby canine kidney (MDCK) cells. Liu PS, et al. **Chin J Physiol** 1996;39(3):189-96

The effect of anisodamine on cerebral resuscitation of rats in acute cerebral ischemia from cardiac arrest. Peng X, et al. **Chin Med Sci J** 1995 Dec;10(4):237-9

A model for investigating effect of shock waves on intracellular calcium mobilization. Chen WC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov;58(5):341-7

Nicardipine enhances cytoplasmic calcium concentration in mouse thymocytes in vitro. Chen WR, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov;16(6):489-92

Effects of tetrandrine on cytosolic free calcium in cultured rat myocardial cells. Li XT, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):55-8

Effects of nitrendipine on capacity of calcium binding of erythrocyte membrane and total intraerythrocyte calcium content in SHR rats. Wang YL, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):38-40

Mildly oxidized LDL evokes a sustained Ca(2+)-dependent retraction of vascular smooth muscle cells. Augé N, et al. **Circ Res** 1996 Oct;79(4):871-80

Spontaneous Ca2+ oscillations and waves in pulmonary vascular endothelial cells [editorial; comment] Balke CW. **Circ Res** 1996 Oct;79(4):909-10. Comment on: Circ Res 1996 Oct;79(4):898-908.

Intracellular Ca2+ increases the mitochondrial NADH concentration during elevated work in intact cardiac muscle. Brandes R, et al. **Circ Res** 1997 Jan;80(1):82-7

Compensatory mechanisms associated with the hyperdynamic function of phospholamban-deficient mouse hearts. Chu G, et al. **Circ Res** 1996 Dec;79(6):1064-76

Intracellular Ca2+, intercellular electrical coupling, and mechanical activity in ischemic rabbit papillary muscle. Effects of preconditioning and metabolic blockade. Dekker LR, et al. **Circ Res** 1996 Aug;79(2):237-46

Role of Ca2+ in metabolic inhibition-induced norepinephrine release in rat brain synaptosomes. Du XJ, et al. **Circ Res** 1997 Feb;80(2):179-88

Role of Ca(2+)-activated K+ channels in the regulation of membrane potential and tone of smooth muscle in human pial arteries. Gokina NI, et al. **Circ Res** 1996 Oct; 79(4):881-6

Ca2+ influx during the cardiac action potential in guinea pig ventricular myocytes. Grantham CJ, et al. **Circ Res** 1996 Aug;79(2):194-200

Cyclic ADP-ribose does not regulate sarcoplasmic reticulum Ca2+ release in intact cardiac myocytes. Guo X, et al. **Circ Res** 1996 Jul;79(1):147-51

Effects of intracellular angiotensin II in vascular smooth muscle cells. Haller H, et al. **Circ Res** 1996 Oct;79(4):765-72

c-Myb-dependent cell cycle progression and Ca2+ storage in cultured vascular smooth muscle cells. Husain M, et al. **Circ Res** 1997 May;80(5):617-26

Modulation by pH0 and intracellular Ca2+ of Na(+)-H+ exchange in diabetic rat isolated ventricular myocytes. Le Prigent K, et al. **Circ Res** 1997 Feb;80(2):253-60

Effects of FK-506 on contraction and Ca2+ transients in rat cardiac myocytes. McCall E, et al. **Circ Res** 1996 Dec; 79(6):1110-21

Calcium preconditioning elicits strong protection against ischemic injury via protein kinase C signaling pathway. Miyawaki H, et al. **Circ Res** 1996 Jul;79(1):137-46

Differential effects of the Ca2+ sensitizers caffeine and CGP 48506 on the relaxation rate of rat skinned cardiac trabeculae. Palmer S, et al. **Circ Res** 1997 May;80(5):682-7

Exogenously administered growth hormone and insulin-like growth factor-I alter intracellular Ca2+ handling and enhance cardiac performance. In vitro evaluation in the isolated isovolumic buffer-perfused rat heart. Strömer H, et al. **Circ Res** 1996 Aug;79(2):227-36

Non-voltage-gated Ca2+ influx through mechanosensitive ion channels in aortic baroreceptor neurons. Sullivan MJ, et al. **Circ Res** 1997 Jun;80(6):861-7

Regulation of cardiac Ca2+ release channel (ryanodine receptor) by Ca2+, H+, Mg2+, and adenine nucleotides under normal and simulated ischemic conditions. Xu L, et al. **Circ Res** 1996 Dec;79(6):1100-9

Inhibitory effects of glibenclamide on cystic fibrosis transmembrane regulator, swelling-activated, and Ca(2+)-activated Cl- channels in mammalian cardiac myocytes. Yamazaki J, et al. **Circ Res** 1997 Jul;81(1):101-9

Ca2+ waves in lung capillary endothelium [see comments] [published erratum appears in Circ Res 1996 Dec;79(6):1218] Ying X, et al. **Circ Res** 1996 Oct; 79(4):898-908. Comment in: Circ Res 1996 Oct;79(4):909-10.

Ethnic origin and serum levels of 1alpha,25-dihydroxyvitamin D3 are independent predictors of coronary calcium mass measured by electron-beam computed tomography. Doherty TM, et al. **Circulation** 1997 Sep 2;96(5):1477-81

Detection of intralesional calcium in coronary arteries [letter; comment] Friedrich GJ, et al. **Circulation** 1996 Aug 1; 94(3):588. Comment on: Circulation 1995 Oct 15;92(8):2157-62.

Adenovirus-mediated gene transfer reconstitutes depressed sarcoplasmic reticulum Ca2+-ATPase levels and shortens prolonged cardiac myocyte Ca2+ transients. Giordano FJ, et al. **Circulation** 1997 Jul 15;96(2):400-3

Role of intracellular Ca2+ in activation of protein kinase C during ischemic preconditioning. Node K, et al. **Circulation** 1997 Aug 19;96(4):1257-65

Coronary artery calcium in acute coronary syndromes: a comparative study of electron-beam computed tomography, coronary angiography, and intracoronary ultrasound in survivors of acute myocardial infarction and unstable angina. Schmermund A, et al. **Circulation** 1997 Sep 2;96(5):1461-9

Coronary calcium and coronary disease: specificity is better than it seems [letter; comment] Tenenbaum A. **Circulation** 1996 Dec 1;94(11):2995-6. Comment on: Circulation 1995 Mar 1;91(5):1363-7.

Verapamil reduces tachycardia-induced electrical remodeling of the atria [see comments] Tieleman RG, et al. **Circulation** 1997 Apr 1;95(7):1945-53. Comment in: Circulation 1997 Apr 1;95(7):1745-8.

Withdrawal of acetylcholine elicits Ca2+-induced delayed afterdepolarizations in cat atrial myocytes. Wang YG, et al. **Circulation** 1997 Aug 19;96(4):1275-81

Extracellular Mg2+ inhibits capacitative Ca2+ entry in vascular smooth muscle cells. Yoshimura M, et al. **Circulation** 1997 Jun 3;95(11):2567-72

Thermostability of purified human pancreatic alpha-amylase is increased by the combination of Ca2+ and human serum albumin. Tessier AJ, et al. **Clin Chim Acta** 1996 Aug 15; 252(1):11-20

A simplified method for Ca2+ flux measurement on isolated human B cells that uses flow cytometry. Gergely L, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):70-4

Intracellular calcium ion responses to somatostatin in cells from human somatotroph adenomas. Chen ZP, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):45-53

Vitamin D receptor gene polymorphism in men and its effect on bone density and calcium absorption. Francis RM, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):83-6

A single topical application of calcipotriol (50 micrograms/g) ointment has no acute effect on systemic calcium homeostasis in patients with chronic plaque psoriasis [letter] Bourke JF, et al. **Clin Exp Dermatol** 1996 Jul;21(4):320-1

The influence of blood pressure on intracellular Ca2+ content in erythrocytes: effects of cadmium chloride and nifedipine. Erkiliç AB, et al. **Clin Exp Hypertens** 1996 Jan; 18(1):77-86

Intracellular free Ca2+ and basal Mn2+ influx in cultured aortic smooth muscle cells from spontaneously hypertensive and normotensive Wistar-Kyoto rats. Monteith GR, et al. **Clin Exp Hypertens** 1997 May; 19(4):431-43

Probing excitation-contraction coupling in trachealis smooth muscle with the mycotoxin cyclopiazonic acid. Amoako D, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):733-7

Calcium and calcium-related signalling pathways in glomerular mesangial cells. Bonventre JV. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):65-70 (34 ref.)

Interactions of Na+, H2O2 and the Na+-Ca2+ exchanger stimulate Ca2+ release in CK1.4 cells. Fang Y, et al. **Clin Exp Pharmacol Physiol** 1997 Feb;24(2):170-4

Extracellular ATP increases cytosolic calcium in cultured rat renal arterial smooth muscle cells. Inscho EW, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):503-7

Effects of tetrandrine and closely related bis-benzylisoquinoline derivatives on cytosolic Ca2+ in human leukaemic HL-60 cells: a structure-activity relationship study. Leung YM, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):653-9

Effects of BKCa channels on the reduction of cytosolic Ca2+ in cGMP-induced relaxation of guinea-pig trachea. Mikawa K, et al. **Clin Exp Pharmacol Physiol** 1997 Feb; 24(2):175-81

Gender differences in response to endothelin-1 in coronary arteries: transcription, receptors and calcium regulation. Miller VM, et al. **Clin Exp Pharmacol Physiol** 1996 Mar; 23(3):256-9

Tetrandrine as a calcium antagonist. Takemura H, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):751-3

Increased Ca2+ influx in the resting state maintains the myogenic tone and activates charybdotoxin-sensitive K+ channels in femoral arteries from young SHR. Asano M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S225-7

Intestinal calcium absorption and response of calcium regulating hormones in the stroke-prone spontaneously hypertensive rat as a model of osteoporosis. Fukuda S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S240-1

Augmented Ca2+ mobilization is a hypertensive trait discriminated from a 'major gene' in backcross analysis between SHR and Donryu rats. Ohno Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S220-2

Magnesium, calcium and trace elements in spontaneously hypertensive rats. Saito N, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S212-4

Increased calcium sequestration by sarcoplasmic reticulum in small muscular arteries in young spontaneously hypertensive rats. Toyoda Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S223-4

Calcium metabolism in patients with chronic uremia. Więcek A. **Clin Nephrol** 1996 Oct;46(4):277-9

Lithium blocks 45Ca2+ uptake into platelets in bipolar affective disorder and controls. Berk M, et al. **Clin Neuropharmacol** 1996 Feb;19(1):48-51

Increased intracellular calcium triggered by immune mechanisms in amyotrophic lateral sclerosis. Appel SH, et al. **Clin Neurosci** 1995-96;3(6):368-74 (60 ref.)

Single-dose subcutaneous administration of recombinant human parathyroid hormone [rhPTH(1-84)] in healthy postmenopausal volunteers. Schwietert HR, et al. **Clin Pharmacol Ther** 1997 Mar;61(3):360-76

Myocardial efficiency during calcium sensitization with levosimendan: a noninvasive study with positron emission tomography and echocardiography in healthy volunteers. Ukkonen H, et al. **Clin Pharmacol Ther** 1997 May; 61(5):596-607

S-albuterol exacerbates calcium responses to carbachol in airway smooth muscle cells. Yamaguchi H, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):47-55

Impairment of intracellular calcium homoeostasis in the exocrine pancreas after caerulein-induced acute pancreatitis in the rat [see comments] Bragado MJ, et al. **Clin Sci (Colch)** 1996 Sep;91(3):365-9. Comment in: Clin Sci (Colch) 1996 Dec;91(6):771.

Change in blood pressure during altered sodium intake is not associated with calciotropic hormone level. Ozono R, et al. **Clin Sci (Colch)** 1997 Aug;93(2):153-7

Enhanced effects of insulin and angiotensin II on intracellular pH and free cytosolic calcium in fibroblasts from microalbuminuric patients with non-insulin-dependent diabetes mellitus. Trevisan R, et al. **Clin Sci (Colch)** 1996 Dec;91(6):703-10

Late ATP-dependent and Ca++-activated steps of dense core granule exocytosis. Martin TF, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:197-204

Calcium-dependent vesicular exocytosis: from constitutive to regulated secretion. Poo M, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:349-59

Calcium homeostasis and yeast phagocytosis in hemocytes of the colonial ascidian Botryllus schlosseri. Ballarin L, et al. **Comp Biochem Physiol A Physiol** 1997 Sep; 118(1):153-8

Effects of anoxia on intracellular free Ca2+ in isolated cardiomyocytes from turtles. Wasser JS, et al. **Comp Biochem Physiol A Physiol** 1997 Apr;116(4):305-12

Elevation of intracellular Ca2+ concentration in rabbit nonpigmented ciliary epithelial cells by allicin. Chu TC, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Sep;115(1):89-94

Effects of destruxins, cyclic depsipeptide mycotoxins, on calcium balance and phosphorylation of intracellular proteins in lepidopteran cell lines. Dumas C, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Jul;114(3):213-9

Comparative effects of age and chronic low-level lead exposure on calcium mobilization from intracellular calcium stores in brain samples obtained from the neonatal and the adult rats. Singh AK, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):89-98

Effect of 17 alpha-ethinylestradiol, levonorgestrel, 3-keto-desogestrel, and gestodene on calcium influx via voltage-gated calcium channels in human aortic smooth muscles. Seeger H, et al. **Contraception** 1996 Oct; 54(4):265-8

Detection of calcium dependence in Yersinia enterocolitica by conductance microbiology. Drysdale EM, et al. **Contrib Microbiol Immunol** 1995;13:165-7

Abnormal mechanical function in diabetes: relation to myocardial calcium handling. Schaffer SW, et al. **Coron Artery Dis** 1996 Feb;7(2):109-15 (51 ref.)

Relation of electron beam computed tomography screening for coronary calcium to cardiovascular risk and disease: a review. Teng W, et al. **Coron Artery Dis** 1996 May; 7(5):383-9 (48 ref.)

Effect of tris buffer on free cytosolic calcium in myocardial cells. Bjerneroth G, et al. **Crit Care Med** 1996 Oct; 24(10):1713-8

Calcium signalling: sphingosine kinase versus phospholipase C? Beaven MA. **Curr Biol** 1996 Jul 1;6(7):798-801 (14 ref.)

Subcellular Ca2+ signals underlying waves and graded responses in HeLa cells. Bootman MD, et al. **Curr Biol** 1996 Jul 1;6(7):855-65

Calcium signalling: setting store by calcium channels. Hardie RC. **Curr Biol** 1996 Nov 1;6(11):1371-3 (19 ref.)

Calcium release and influx colocalize to the endoplasmic reticulum. Jaconi M, et al. **Curr Biol** 1997 Aug 1; 7(8):599-602

Calcium-mediated apoptosis in a plant hypersensitive disease resistance response. Levine A, et al. **Curr Biol** 1996 Apr 1;6(4):427-37

Cooperative activation of IP3 receptors by sequential binding of IP3 and Ca2+ safeguards against spontaneous activity. Marchant JS, et al. **Curr Biol** 1997 Jul 1;7(7):510-8

Change in plasma membrane Ca2(+)-ATPase splice-variant expression in response to a rise in intracellular Ca2+. Zacharias DA, et al. **Curr Biol** 1996 Dec 1;6(12):1642-52

Intracellular calcium mobilization following prostaglandin receptor activation in human ciliary muscle cells. Chen W, et al. **Curr Eye Res** 1997 Aug;16(8):847-53

Cytoplasmic Ca2+ mobilization and Ca(2+)-dependent membrane currents in dispersed bovine ciliary muscle cells. Fujii T, et al. **Curr Eye Res** 1997 May;16(5):436-44

Calcium signals from intact rabbit ciliary epithelium observed with confocal microscopy. Suzuki Y, et al. **Curr Eye Res** 1997 Feb;16(2):166-75

A genetic analysis of the role of calcineurin and calmodulin in Ca++-dependent improvement of NaCl tolerance of Saccharomyces cerevisiae. Danielsson A, et al. **Curr Genet** 1996 Dec;30(6):476-84

Recent advances in cellular Ca2+ homeostasis: implications to altered regulations of cellular Ca2+ and Na(+)-H+ exchange in essential hypertension. Aviv A. **Curr Opin Cardiol** 1996 Sep;11(5):477-82 (63 ref.)

Extracellular calcium-binding proteins. Maurer P, et al. **Curr Opin Cell Biol** 1996 Oct;8(5):609-17 (63 ref.)

The scent of an ion: calcium-sensing and its roles in health and disease. Hebert SC, et al. **Curr Opin Nephrol Hypertens** 1996 Jan;5(1):45-53 (79 ref.)

Bibliography. Current world literature. Signalling mechanisms. **Curr Opin Neurobiol** 1997 Jun;7(3):431-60

Ca2+ and the regulation of neurotransmitter secretion. Bennett MK. **Curr Opin Neurobiol** 1997 Jun;7(3):316-22 (69 ref.)

Calcium permeability of glutamate-gated channels in the central nervous system. Burnashev N. **Curr Opin Neurobiol** 1996 Jun;6(3):311-7 (57 ref.)

Calcium crystal-associated diseases [see comments] Halverson PB. **Curr Opin Rheumatol** 1996 May;8(3):259-61 (24 ref.). Comment in: Curr Opin Rheumatol 1996 May;8(3):235-7.

Simultaneous measurement of Ca2+ and pH by laser cytometry using fluo-3 and SNARF-1. Atsumi T, et al. **Cytometry** 1996 Jun 1;24(2):99-105

Improved four-color flow cytometry method using fluo-3 and triple immunofluorescence for analysis of intracellular calcium ion ([Ca2+]i) fluxes among mouse lymph node B- and T-lymphocyte subsets. Greimers R, et al. **Cytometry** 1996 Mar 1;23(3):205-17

Rare-event sorting by fixed-time flow cytometry based on changes in intracellular free calcium. Tárnok A. **Cytometry** 1997 Jan 1;27(1):65-70

Meiotic and mitotic Ca2+ oscillations affect cell composition in resulting blastocysts. Bos-Mikich A, et al. **Dev Biol** 1997 Feb 1;182(1):172-9

Regulation of protein tyrosine phosphorylation in human sperm by a calcium/calmodulin-dependent mechanism: identification of A kinase anchor proteins as major substrates for tyrosine phosphorylation. Carrera A, et al. **Dev Biol** 1996 Nov 25;180(1):284-96

Spontaneous calcium transients regulate myofibrillogenesis in embryonic Xenopus myocytes. Ferrari MB, et al. **Dev Biol** 1996 Sep 15;178(2):484-97

A comparison of sperm- and IP3-induced Ca2+ release in activated and aging mouse oocytes. Jones KT, et al. **Dev Biol** 1996 Sep 15;178(2):229-37

Development of mechanisms regulating intracellular Ca2+ concentration in cardiac muscle cells of early chick embryos. Komazaki S, et al. **Dev Biol** 1997 Jun 15; 186(2):177-84

Change in intracellular Ca2+ is not involved in serotonin-induced meiosis reinitiation from the first prophase in oocytes of the marine bivalve Crassostrea gigas. Kyozuka K, et al. **Dev Biol** 1997 Feb 1;182(1):33-41

The cyclic GMP-mediated calcium release pathway in sea urchin eggs is not required for the rise in calcium during fertilization. Lee SJ, et al. **Dev Biol** 1996 Nov 25; 180(1):324-35

Progesterone triggers a wave of increased free calcium during the human sperm acrosome reaction. Meizel S, et al. **Dev Biol** 1997 Feb 1;182(1):67-75

Modulation of embryonic intracellular Ca2+ signaling by Wnt-5A. Slusarski DC, et al. **Dev Biol** 1997 Feb 1; 182(1):114-20

Intracellular injections of a soluble sperm factor trigger calcium oscillations and meiotic maturation in unfertilized oocytes of a marine worm. Stricker SA. **Dev Biol** 1997 Jun 15;186(2):185-201

Tight junctions in early amphibian development: detection of junctional cingulin from the 2-cell stage and its localization at the boundary of distinct membrane domains in dividing blastomeres in low calcium. Cardellini P, et al. **Dev Dyn** 1996 Sep;207(1):104-13

First evidence of a calcium transient in flowering plants at fertilization. Digonnet C, et al. **Development** 1997 Aug; 124(15):2867-74

Sperm-egg fusion is the prelude to the initial Ca2+ increase at fertilization in the mouse. Lawrence Y, et al. **Development** 1997 Jan;124(1):233-41

High D-glucose-induced changes in endothelial Ca2+/EDRF signaling are due to generation of superoxide anions. Graier WF, et al. **Diabetes** 1996 Oct;45(10):1386-95

Atrial natriuretic peptide and cyclic nucleotides affect glucose-induced Ca2+ responses in single pancreatic islet beta-cells: correlation with (Ca[2+] + Mg2+)-ATPase activity. Lee B, et al. **Diabetes** 1997 Aug;48(8):1312-8

Troglitazone attenuates high-glucose-induced abnormalities in relaxation and intracellular calcium in rat ventricular myocytes. Ren J, et al. **Diabetes** 1996 Dec;45(12):1822-5

Energetic requirement of insulin secretion distal to calcium influx. Rustenbeck I, et al. **Diabetes** 1997 Aug;48(8):1305-11

Cardiac membrane Ca(2+)-transport in alloxan-induced diabetes in rats. Golfman LS, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S73-7

Diabetic cardiomyopathy in rats: alleviation of myocardial dysfunction caused by Ca2+ overload. Ravingerová T, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S105-12

Failure of nimodipine to prevent or correct the long-term nerve conduction defect and increased neuronal Ca(2+)-currents in the diabetic BB/W-rat. Ristic H, et al. **Diabetes Res Clin Pract** 1996 May;32(3):135-40

Resistance of diabetic rat hearts to Ca overload-related injury. Histochemical and ultrastructural study. Tribulová N, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S113-22

Diabetic cardiomyopathy in rats: biochemical mechanisms of increased tolerance to calcium overload. Ziegelhöffer A, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S93-103

High glucose level inhibits capacitative Ca2+ influx in cultured rat mesangial cells by a protein kinase C-dependent mechanism. Menè P, et al. **Diabetologia** 1997 May;40(5):521-7

Mechanisms of arginine-induced increase in cytosolic calcium concentration in the beta-cell line NIT-1. Weinhaus AJ, et al. **Diabetologia** 1997 Apr;40(4):374-82

Analysis of calcium oscillations in pancreatic acinar cells. Elliott AC, et al. **Digestion** 1997;58 Suppl 2:69-74 (15 ref.)

Cystic fibrosis gene mutation (deltaF508) is associated with an intrinsic abnormality in Ca2+-induced arachidonic acid release by epithelial cells. Miele L, et al. **DNA Cell Biol** 1997 Jun;16(6):749-59

Deltamethrin lethal multifactorial activity toward carp larva related to pH, calcium, and humic acid concentrations. Ghillebaert F, et al. **Ecotoxicol Environ Saf** 1996 Oct; 35(1):24-37

Deltamethrin multifactorial activity toward carp larva mobility related to calcium, humic acids, and pH. Ghillebaert F, et al. **Ecotoxicol Environ Saf** 1996 Dec; 35(3):268-76

DAP-kinase is a Ca2+/calmodulin-dependent, cytoskeletal-associated protein kinase, with cell death-inducing functions that depend on its catalytic activity. Cohen O, et al. **EMBO J** 1997 Mar 3; 16(5):998-1008

Rapid Ca2+-mediated activation of Rap1 in human platelets. Franke B, et al. **EMBO J** 1997 Jan 15;16(2):252-9

Identification of calcium binding sites that regulate potentiation of a neuronal nicotinic acetylcholine receptor. Galzi JL, et al. **EMBO J** 1996 Nov 1;15(21):5824-32

Minimal requirements for calcium oscillations driven by the IP3 receptor. Hajnóczky G, et al. **EMBO J** 1997 Jun; 16(12):3533-43

Crystal structure of a pair of follistatin-like and EF-hand calcium-binding domains in BM-40. Hohenester E, et al. **EMBO J** 1997 Jul 1;16(13):3778-86

Micromolar and submicromolar Ca2+ spikes regulating distinct cellular functions in pancreatic acinar cells. Ito K, et al. **EMBO J** 1997 Jan 15;16(2):242-51

Domains of high Ca2+ beneath the plasma membrane of living A7r5 cells. Marsault R, et al. **EMBO J** 1997 Apr 1;16(7):1575-81

Phytochrome-regulated repression of gene expression requires calcium and cGMP. Neuhaus G, et al. **EMBO J** 1997 May 15;16(10):2554-64

A novel chloride channel in Vicia faba guard cell vacuoles activated by the serine/threonine kinase, CDPK. Pei ZM, et al. **EMBO J** 1996 Dec 2;15(23):6564-74

Mutational analysis of VAMP domains implicated in Ca2+-induced insulin exocytosis. Regazzi R, et al. **EMBO J** 1996 Dec 16;15(24):6951-9

A slow sustained increase in cytosolic Ca2+ levels mediates stalk gene induction by differentiation inducing factor in Dictyostelium. Schaap P, et al. **EMBO J** 1996 Oct 1; 15(19):5177-83

Subtype specificity of the ryanodine receptor for Ca2+ signal amplification in excitation-contraction coupling.

Yamazawa T, et al. **EMBO J** 1996 Nov 15;15(22):6172–7

Untreated Graves' but not remission Graves' immunoglobulin G preparations increase intracellular Ca2+ in FRTL-5 thyroid cells. Kuwabara A, et al. **Endocr J** 1996 Oct; 43(5):457–67

Effects of substance P and its antagonist spantide on corticosterone secretion and cytosolic- free calcium concentration of dispersed zona fasciculata-reticularis cells of the rat adrenal cortex. Malendowicz LK, et al. **Endocr Res** 1996 May;22(2):175–84

The calcium-sensing receptor: a window into the physiology and pathophysiology of mineral ion metabolism [published erratum appears in Endocr Rev 1996 Oct;17(5):517] Chattopadhyay N, et al. **Endocr Rev** 1996 Aug; 17(4):289–307 (160 ref.)

Cytoplasmic Ca2+ in glucagon-producing pancreatic alpha-cells exposed to carbachol and agents affecting Na+ fluxes. Berts A, et al. **Endocrine** 1997 Feb;6(1):79–83

Thyrotropin-releasing hormone-induced intracellular calcium responses in individual rat lactotrophs and thyrotrophs. Ashworth R, et al. **Endocrinology** 1996 Dec; 137(12):5205–12

Oxytocin receptor-mediated activation of phosphoinositidase C and elevation of cytosolic calcium in the gonadotrope-derived alphaT3-1 cell line. Evans JJ, et al. **Endocrinology** 1997 May;138(5):2049–55

Expression of a calcium-sensing receptor in a human medullary thyroid carcinoma cell line and its contribution to calcitonin secretion. Freichel M, et al. **Endocrinology** 1996 Sep;137(9):3842–8

Inhibin and estradiol alter gonadotropes differentially in ovine pituitary cultures: changing gonadotrope numbers and calcium responses to gonadotropin-releasing hormone. Ghosh BR, et al. **Endocrinology** 1996 Nov;137(11):5144–54

Opposing actions of hepatocyte growth factor and basic fibroblast growth factor on cell contact, intracellular free calcium levels, and rat ovarian surface epithelial cell viability. Gulati R, et al. **Endocrinology** 1997 May; 138(5):1847–56

Ca2+/calmodulin and cyclic 3,5' adenosine monophosphate control movement of secretory granules through protein phosphorylation/dephosphorylation in the pancreatic beta-cell. Hisatomi M, et al. **Endocrinology** 1996 Nov; 137(11):4644–9

Dopamine withdrawal elicits prolonged calcium rise to support prolactin rebound release. Ho MY, et al. **Endocrinology** 1996 Aug;137(8):3513–21

Extracellular nucleotides act through P2U purinoceptors to elevate [Ca2+]i and enhance basic fibroblast growth factor-induced proliferation in sheep chondrocytes. Kaplan AD, et al. **Endocrinology** 1996 Nov;137(11):4757–66

P2-purinoreceptor evoked changes in intracellular calcium oscillations in single isolated human granulosa-lutein cells. Lee PS, et al. **Endocrinology** 1996 Sep;137(9):3756–61

Impaired cytosolic Ca2+ response to glucose and gastric inhibitory polypeptide in pancreatic beta-cells from triphenyltin-induced diabetic hamster. Miura Y, et al. **Endocrinology** 1997 Jul;138(7):2769–75

Novel ipriflavone receptors coupled to calcium influx regulate osteoclast differentiation and function. Miyauchi A, et al. **Endocrinology** 1996 Aug;137(8):3544–50

Sphingosine 1-phosphate stimulates hydrogen peroxide generation through activation of phospholipase C-Ca2+ system in FRTL-5 thyroid cells: possible involvement of guanosine triphosphate-binding proteins in the lipid signaling. Okajima F, et al. **Endocrinology** 1997 Jan; 138(1):220–9

A midregion parathyroid hormone-related peptide mobilizes cytosolic calcium and stimulates formation of inositol trisphosphate in a squamous carcinoma cell line. Orloff JJ, et al. **Endocrinology** 1996 Dec;137(12):5376–85

Modulation of steroidogenesis by chloride ions in MA-10 mouse tumor Leydig cells: roles of calcium, protein synthesis, and the steroidogenic acute regulatory protein. Ramnath HI, et al. **Endocrinology** 1997 Jun;138(6):2308–14

Wortmannin-sensitive and -insensitive steps in calcium-controlled exocytosis in pituitary gonadotrophs: evidence that myosin light chain kinase mediates calcium-dependent and wortmannin-sensitive gonadotropin secretion. Rao K, et al. **Endocrinology** 1997 Apr;138(4):1440–9

Mechanism of mitogen-activated protein kinase activation by gonadotropin-releasing hormone in the pituitary of alphaT3-1 cell line: differential roles of calcium and protein kinase C. Reiss N, et al. **Endocrinology** 1997 Apr; 138(4):1673–82

Beta-endorphin enhances Concanavalin-A-stimulated calcium mobilization by murine splenic T cells. Shahabi NA, et al. **Endocrinology** 1996 Aug;137(8):3386–93

Lowering glucose depletes a thapsigargin-sensitive calcium pool and inhibits transcription of the S14 gene. Sudo Y, et al. **Endocrinology** 1996 Nov;137(11):4677–84

Pituitary adenylate cyclase-activating polypeptide potentiation of Ca2+ entry via protein kinase C and A pathways in melanotrophs of the pituitary pars intermedia of rats. Tanaka K, et al. **Endocrinology** 1997 Oct; 138(10):4086–95

Sphingosine 1-phosphate mobilizes sequestered calcium, activates calcium entry, and stimulates deoxyribonucleic acid synthesis in thyroid FRTL-5 cells. Törnquist K, et al. **Endocrinology** 1997 Oct;138(10):4049–57

A novel calcium-activated apamin-insensitive potassium current in pituitary gonadotrophs. Vergara L, et al. **Endocrinology** 1997 Jul;138(7):2658–64

Induction of steroidogenic enzymes by potassium in cultured rat zona glomerulosa cells depends on calcium influx and intact protein synthesis. Yagci A, et al. **Endocrinology** 1996 Oct;137(10):4331–8

17 beta-Estradiol increases intracellular free calcium concentrations of human vascular endothelial cells and modulates its responses to acetylcholine. Moini H, et al. **Endothelium** 1997;5(1):11–9

The relationship between the concentration of ionised calcium and parathyroid hormone-related protein (PTHrP[1–34]) in the milk of mares [see comments] Care AD, et al. **Equine Vet J** 1997 May;29(3):186–9. Comment in: Equine Vet J 1997 May;29(3):174–6.

Hypothesis: the thermosynthesis model for the origin of life and the emergence of regulation by Ca2+. Muller AW. **Essays Biochem** 1996;31:103–19 (34 ref.)

Alteration of loosely bound calcium in the guinea pig organ of Corti after treatment with diltiazem as calcium channel blocker. Heinrich UR, et al. **Eur Arch Otorhinolaryngol** 1997;254(5):223–9

Calcium binding and conformational properties of calmodulin complexed with peptides derived from myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP). Porumb T, et al. **Eur Biophys J** 1997;25(4):239–47

Two distinct Ca2+ influx pathways activated by the bradykinin B2 receptor. AbdAlla S, et al. **Eur J Biochem** 1996 Oct 15;241(2):498–506

Mechanism of action of sarcoplasmic reticulum calcium-uptake activators--discrimination between sarco(endo)plasmic reticulum Ca2+ ATPase and phospholamban interaction. Berrebi-Bertrand I, et al. **Eur J Biochem** 1997 Aug 1;247(3):801–9

Chimeras of parvalbumin and oncomodulin involving exchange of the complete CD site show that the Ca2+/Mg2+ specificity is an intrinsic property of the site. Durussel I, et al. **Eur J Biochem** 1996 Dec 1;242(2):256–63

Solubilization and characterization of a thyroid Ca(2+)-dependent and NADPH-dependent K3Fe(CN)6 reductase. Relationship with the NADPH-dependent H2O2-generating system. Gorin Y, et al. **Eur J Biochem** 1996 Sep 15;240(3):807–14

1-(5-phospho-beta-D-ribosyl)2'-phosphoadenosine 5'-phosphate cyclic anhydride induced Ca2+ release in human T-cell lines. Guse AH, et al. **Eur J Biochem** 1997 Apr 15;245(2):411–7

Ca2+ and its substitutes have two different binding sites and roles in soluble, quinoprotein (pyrroloquinoline-quinone-containing) glucose dehydrogenase. Olsthoorn AJ, et al. **Eur J Biochem** 1997 Jul 15;247(2):659–65

Site-specific replacement of amino acid residues in the CD site of rat parvalbumin changes the metal specificity of this Ca2+/Mg(2+)-mixed site toward a Ca(2+)-specific site. Pauls TL, et al. **Eur J Biochem** 1996 Dec 1;242(2):249–55

Calcium-binding properties of the third and fourth epidermal-growth-factor-like modules in vitamin-K-dependent protein S. Stenberg Y, et al. **Eur J Biochem** 1997 Aug 15;248(1):163–70

Phospholipase-C-independent inositol 1,4,5-trisphosphate formation in Dictyostelium cells. Activation of a plasma-membrane-bound phosphatase by receptor-stimulated Ca2+ influx. Van Dijken P, et al. **Eur J Biochem** 1997 Feb 15;244(1):113–9

Calcium homeostasis in intraerythrocytic malaria parasites. Garcia CR, et al. **Eur J Cell Biol** 1996 Dec;71(4):409–13

A transient rise in cytoplasmic free calcium is required to induce cytokinesis in zoosporangia of Phytophthora cinnamomi. Jackson SL, et al. **Eur J Cell Biol** 1996 Feb; 69(2):180–8

Stimulation of integrin receptors using a magnetic drag force device induces an intracellular free calcium response. Pommerenke H, et al. **Eur J Cell Biol** 1996 Jun;70(2):157–64

Activation of Na+/H(+)-exchanger by transforming Ha-ras requires stimulated cellular calcium influx and is associated with rearrangement of the actin cytoskeleton. Ritter M, et al. **Eur J Cell Biol** 1997 Mar;72(3):222–8

Imaging of Ca(2+)-induced cytoplasmic Ca2+ responses in normal and pathological parathyroid cells. Ridefelt P, et al. **Eur J Clin Invest** 1996 Dec;26(12):1166–70

Diadenosine polyphosphates induce transplasma membrane calcium influx in cultured glomerular mesangial cells. Tepel M, et al. **Eur J Clin Invest** 1996 Dec;26(12):1077–84

Oxidized low-density lipoprotein increases endothelial intracellular calcium and alters cytoskeletal f-actin distribution. Zhao B, et al. **Eur J Clin Invest** 1997 Jan; 27(1):48–54

Effect of soluble or partly soluble dietary fibres supplementation on absorption and balance of calcium, magnesium, iron and zinc in healthy young men. Coudray C, et al. **Eur J Clin Nutr** 1997 Jun;51(6):375–80

The effect of dietary sodium on calcium metabolism in premenopausal and postmenopausal women. Evans CE, et al. **Eur J Clin Nutr** 1997 Jun;51(6):394–9

17 beta-estradiol stimulates a rapid Ca2+ influx in LNCaP human prostate cancer cells. Audy MC, et al. **Eur J Endocrinol** 1996 Sep;135(3):367–73

Antibodies targeting the calcium sensing receptor: acquired hypoparathyroidism--an autoimmune disease at last? Hofbauer LC, et al. **Eur J Endocrinol** 1996 Aug; 135(2):172–3 (8 ref.)

Role of protein kinase C in the regulation of ATP-triggered intracellular Ca2+ oscillations in chicken granulosa cells. Morley P, et al. **Eur J Endocrinol** 1996 Jun;134(6):743–50

Effect of vitamin D treatment in hypoparathyroid patients: a study on calcium, phosphate and magnesium homeostasis [see comments] Mortensen L, et al. **Eur J Endocrinol** 1997 Jan;136(1):52–60. Comment in: Eur J Endocrinol 1997 Jan;136(1):25–7.

Platelet membrane fluidity and intraplatelet Ca2+ mobilization are affected in uraemia. Walkowiak B, et al. **Eur J Haematol** 1997 May;58(5):350–6

Clustering the adhesion molecules VLA-4 (CD49d/CD29) in Jurkat T cells or VCAM-1 (CD106) in endothelial (ECV 304) cells activates the phosphoinositide pathway and triggers Ca2+ mobilization. Ricard I, et al. **Eur J Immunol** 1997 Jun;27(6):1530–8

The selective engulfment of apoptotic bodies by dendritic cells is mediated by the alpha(v)beta3 integrin and requires intracellular and extracellular calcium. Rubartelli A, et al. **Eur J Immunol** 1997 Aug;27(8):1893–900

Developmental expression and self-regulation of Ca2+ entry via AMPA/KA receptors in the embryonic chick retina. Allcorn S, et al. **Eur J Neurosci** 1996 Dec;8(12):2499–510

Decrease in [Ca2+]c but not in cAMP Mediates L-AP4 inhibition of glutamate release: PKC-mediated suppression of this inhibitory pathway. Herrero I, et al. **Eur J Neurosci** 1996 Apr;8(4):700–9

Spontaneous and repetitive calcium transients in C2C12 mouse myotubes during in vitro myogenesis. Lorenzon P, et al. **Eur J Neurosci** 1997 Apr;9(4):800–8

Involvement of Na+-Ca2+ exchanger in reperfusion-induced delayed cell death of cultured rat astrocytes. Matsuda T, et al. **Eur J Neurosci** 1996 May; 8(5):951–8

Mechanisms for synchronous calcium oscillations in cultured rat cerebellar neurons. Nuñez L, et al. **Eur J Neurosci** 1996 Jan;8(1):192–201

Regulation of intracellular Ca2+ in response to muscarinic and glutamate receptor agonists during the differentiation of NTERA2 human embryonal carcinoma cells into neurons. Squires PE, et al. **Eur J Neurosci** 1996 Apr; 8(4):783–93

Transient brain ischaemia provokes Ca2+, PIP2 and calpain responses prior to delayed neuronal death in monkeys. Yamashima T, et al. **Eur J Neurosci** 1996 Sep;8(9):1932–44

Na(+)-Ca2+ exchange currents in cortical neurons: concomitant forward and reverse operation and effect of glutamate. Yu SP, et al. **Eur J Neurosci** 1997 Jun; 9(6):1273–81

Calcium channels in neuroblastoma cell growth cones. Zimprich F, et al. **Eur J Neurosci** 1996 Mar;8(3):467–75

Effects of progesterone and oxytocin on intracellular elemental composition of term human myometrium in vitro. Rezapour M, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1-2):191–7

Exposure of piglet coronary arterial muscle cells to low alcohol results in elevation of intracellular free Ca2+: relevance to fetal alcohol syndrome. Altura MB, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):R9–11

Ca(2+)-independent contraction induced by hyperosmolar K(+)-rich solutions in rat uterus. Ausina P, et al. **Eur J Pharmacol** 1996 Oct 3;312(3):309–18

The Ca2+ sensitizer EMD 53998 antagonizes the effect of 2,3-butanedione monoxime on skinned cardiac muscle fibres. Barth Z, et al. **Eur J Pharmacol** 1996 Feb 5; 296(3):285–9

Tetracaine stimulates extracellular Ca2+-independent insulin release. Bordin S, et al. **Eur J Pharmacol** 1997 May 30; 327(2-3):257–62

Dual effect of glyburide, an antagonist of KATP channels, on metabolic inhibition-induced Ca2+ loading in cardiomyocytes. Brady PA, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):343–9

Pregnenolone sulfate increases intracellular Ca2+ levels in a pituitary cell line. Büküşoğlu C, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):79–85

Altered behavioral sensitivity of Ca(2+)-modulating drugs after chronic nicotine administration in mice. Damaj MI. **Eur J Pharmacol** 1997 Mar 19;322(2-3):129–35

The actions of ouabain and lithium chloride on cytosolic Ca2+ in single chromaffin cells. De la Fuente MT, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):219–26

Ca(2+)-induced Ca2+ release activates K+ currents by a cyclic GMP-dependent mechanism in single gastric smooth muscle cells. Duridanova DB, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):159–63

Ca2+ influx through glutamate receptor-associated channels in retina cells correlates with neuronal cell death. Ferreira IL, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):153–62

Endothelin-3, Ca2+ mobilization and cyclic GMP content in human platelets. Gagnet C, et al. **Eur J Pharmacol** 1996 Aug 22;310(1):67–72

Extrusion mechanisms of intracellular Ca2+ in human aortic endothelial cells. Goto Y, et al. **Eur J Pharmacol** 1996 Oct 24;314(1-2):185–92

Antioxidants prevent high-D-glucose-enhanced endothelial Ca2+/cGMP response by scavenging superoxide anions. Graier WF, et al. **Eur J Pharmacol** 1997 Mar 12; 322(1):113–22

Extracellular K+ and protection against cellular damage in the rat heart. Harding RJ, et al. **Eur J Pharmacol** 1996

Dec 5;316(2-3):223-8
Time course of Ca(2+)-dependent K+ and Cl- currents in single smooth muscle cells of guinea-pig trachea. Henmi S, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):227-36
Adenosine activates the K+ channel and enhances cytosolic Ca2+ release via a P2Y purinoceptor in hippocampal neurons. Ikeuchi Y, et al. **Eur J Pharmacol** 1996 May 23; 304(1-3):191-9
Cytosolic Ca2+ domain-dependent protective action of adenosine in cardiomyocytes. Jovanovic A, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):63-9
Halothane counteracts acetylcholine-induced increase in Ca2+ sensitivity of the contractile apparatus in airway smooth muscle. Kai T, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):313-8
Corticotropin-releasing factor-like peptides increase cytosolic [Ca2+] in human epidermoid A-431 cells. Kiang JG. **Eur J Pharmacol** 1997 Jun 25;329(2-3):237-44
Cytosolic Ca2+ evaluation in rabbit parietal cells: a novel method to screen gastrin receptor antagonists. Letari O, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):325-33
Regulation of intracellular Ca2+ by 8-bromoguanosine 3':5'-cyclic monophosphate, felodipine and ryanodine in rat caudal artery. Lum Min SA, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):97-100
Effects of dantrolene sodium on intracellular Ca2(+)-handling in normal and Ca2(+)-overloaded cardiac muscle. Meissner A, et al. **Eur J Pharmacol** 1996 Dec 5;316(2-3):333-42
Cytoskeletal inhibitors impair Ca2+ elevations via neuropeptide Y and other Gi-coupled receptors. Michel MC, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):87-94
Ageing is associated with changes in glutamate release, protein tyrosine kinase and Ca2+/calmodulin-dependent protein kinase II in rat hippocampus. Mullany P, et al. **Eur J Pharmacol** 1996 Aug 15;309(3):311-5
ML-7 and W-7 facilitate thromboxane A2-mediated Ca2+ mobilization in rabbit platelets. Ohkubo S, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):175-83
Dynamic regulation of intracellular Ca2+ concentration in aortic endothelial cells. Oike M, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):291-8
Rapid dendritic Ca2+ influx is associated with induction of homosynaptic long-term depression in adult rat hippocampus. Otani S, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):R5-6
Effects of neuropeptide FF on intracellular Ca2+ in mouse spinal ganglion neurons. Roumy M, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):291-5
Dihydropyridine-sensitive Ca2+ influx modulated by stretch in A7r5 vascular smooth muscle cells. Ruiz-Velasco V, et al. **Eur J Pharmacol** 1996 Feb 5;296(3):327-34
Pharmacological profiles of two bombesin analogues in cells transfected with human neuromedin B receptors. Ryan RR, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):307-14
Inhibitory effect of phorbol 12,13-dibutyrate on norepinephrine-induced contraction in rabbit iris dilator muscle. Satoh M, et al. **Eur J Pharmacol** 1996 Jul 18; 308(2):145-52
L-733,060, a novel tachykinin NK1 receptor antagonist; effects in [Ca2+]i mobilisation, cardiovascular and dural extravasation assays. Seabrook GR, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):129-35
Chronic U50,488H abolishes inositol 1,4,5-trisphosphate and intracellular Ca2+ elevations evoked by kappa-opioid receptor in rat myocytes. Sheng JZ, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):323-9
Both GABAA and GABAB receptors participate in suppression of [CA2+]i pulsing in toad melanotrophs. Shibuya I, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):241-6
Regulation of protein kinases in steady-state contraction of cat gastric smooth muscle. Sim SS, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):205-10
Plasma membrane Ca2+ pumping plays a prominent role in adenosine A1 receptor mediated changes in [Ca2+]i in DDT1 MF-2 cells. Sipma H, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):187-94
Neomycin inhibits histamine and thapsigargin mediated Ca2+ entry in DDT1 MF-2 cells independent of phospholipase C activation. Sipma H, et al. **Eur J Pharmacol** 1996 Jun 3;305(1-3):207-12
Histamine inhibits ATP-induced [Ca2+]i rise through the activation of protein kinase A in HL-60 cells. Song SK, et al. **Eur J Pharmacol** 1997 Mar 19;322(2-3):265-73
Effects of external K+ on depletion-induced Ca2+ entry in rat ileal smooth muscle. Tabo M, et al. **Eur J Pharmacol** 1996 Oct 10;313(1-2):151-8
gamma-Aminobutyric acid increases intracellular Ca2+ concentration in cultured cortical neurons: role of Cl- transport. Takebayashi M, et al. **Eur J Pharmacol** 1996 Feb 15;297(1-2):137-43
Actions of CP-060S on veratridine-induced Ca2+ overload in cardiomyocytes and mechanical activities in vascular strips. Tamura K, et al. **Eur J Pharmacol** 1996 Sep 26; 312(2):195-202
Intracellular signaling pathway of substance P-induced superoxide production in human neutrophils. Tanabe T, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):187-95
Ca2+ overloading causes the negative inotropic effect of doxorubicin in myocytes isolated from guinea-pig hearts. Temma K, et al. **Eur J Pharmacol** 1997 Mar 19; 322(2-3):235-42
Evidence against a role for protein kinase C in the regulation of the angiotensin II (AT1A) receptor. Thomas WG, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):119-22
Different regulation of myofilament Ca2+ sensitivity in beta-escin-skinned cardiac and vascular smooth muscles. Tomita F, et al. **Eur J Pharmacol** 1997 May 20; 326(2-3):157-62
NH4Cl-induced contraction of porcine coronary artery involves activation of dihydropyridine-sensitive Ca2+ entry. Wakabayashi I, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):139-47
Tetrandrine inhibits electrically induced [Ca2+]i transient in the isolated single rat cardiomyocyte. Wang HX, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):115-22
High carbachol increases the electrically induced [Ca2+]i transient in the single isolated ventricular myocyte of rats. Wang HX, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):91-9
Beneficial effects of dantrolene on lipopolysaccharide-induced haemodynamic alterations in rats and mortality in mice. Wu CC, et al. **Eur J Pharmacol** 1997 May 26;327(1):17-24
Forskolin's structural analogue 1,9-dideoxyforskolin has Ca2+ channel blocker-like action in rat cerebellar granule cells. Zerr P, et al. **Eur J Pharmacol** 1996 May 6; 303(1-2):101-8
Interaction between calcium, neutral endopeptidase and the substance P mediated ciliary response in human respiratory epithelium. Smith RP, et al. **Eur Respir J** 1996 Jan; 9(1):86-92
Baclofen: reduction of presynaptic calcium influx in the cat spinal cord in vivo. Curtis DR, et al. **Exp Brain Res** 1997 Mar;113(3):520-33
Effects of T-type, L-type, N-type, P-type, and Q-type calcium channel blockers on stimulus-induced pre- and postsynaptic calcium fluxes in rat hippocampal slices. Igelmund P, et al. **Exp Brain Res** 1996 Apr;109(1):22-32
Changes of intracellular free calcium following mechanical injury in a spinal cord slice preparation. Leybaert L, et al. **Exp Brain Res** 1996 Dec;112(3):392-402
Stimulation by DIF causes an increase of intracellular Ca2+ in Dictyostelium discoideum. Azhar M, et al. **Exp Cell Res** 1997 Feb 1;230(2):403-6
Hydrostatic pressure to 400 atm does not induce changes in the cytosolic concentration of Ca2+ in mouse fibroblasts: measurements using fura-2 fluorescence. Crenshaw HC, et al. **Exp Cell Res** 1996 Sep 15; 227(2):277-84
Cycling Werner's syndrome fibroblasts display calcium-dependent potassium currents. Faragher RG, et al. **Exp Cell Res** 1997 Feb 25;231(1):119-22
Propagation of mechanically induced intercellular calcium waves via gap junctions and ATP receptors in rat liver epithelial cells. Frame MK, et al. **Exp Cell Res** 1997 Feb 1;230(2):197-207
Modulation of protein kinase C activity and calcium-sensitive isoform expression in human myeloid leukemia cells by bryostatin 1: relationship to differentiation and ara-C-induced apoptosis. Grant S, et al. **Exp Cell Res** 1996 Oct 10;228(1):65-75
Target cell-induced calcium signals in human natural killer leukemia cells as revealed by confocal fluorescence microscopy. Kobayashi Y, et al. **Exp Cell Res** 1997 Apr 10;232(1):42-6
Activation of calcium signaling in isolated rat hepatocytes is accompanied by shape changes of microvilli. Lange J, et al. **Exp Cell Res** 1997 Aug 1;234(2):486-97
Detection of the ATP-dependent nonmitochondrial calcium store in a cell surface-derived vesicle fraction from isolated rat hepatocytes. Lange J, et al. **Exp Cell Res** 1996 Nov 1;228(2):189-96
Hepoxilin-evoked intracellular reorganization of calcium in human neutrophils: a confocal microscopy study. Mills L, et al. **Exp Cell Res** 1997 Feb 1;230(2):337-41
Does actin polymerization status modulate Ca2+ storage in human neutrophils? Release and coalescence of Ca2+ stores by cytochalasins. Al-Mohanna FA, et al. **Exp Cell Res** 1997 Aug 1;234(2):379-87
Induction of a physical linkage between integrins and the cytoskeleton depends on intracellular calcium in an epithelial cell line. Nebe B, et al. **Exp Cell Res** 1996 Nov 25;229(1):100-10
Studies on the mechanism for Cai-transients in sea urchin zygotes caused by refertilization and external application of sperm extract. Osawa M, et al. **Exp Cell Res** 1997 Feb 25;231(1):104-11
The timing and magnitude of Ca2+ signaling by CD32 depends on its redistribution on the cell surface. Roberts GM, et al. **Exp Cell Res** 1997 Feb 1;230(2):303-9
Abstracts from the 12th annual meeting of the section on calcium regulating hormones and bone metabolism of the German Endocrine Society. Heidelberg, October 11-12, 1996. **Exp Clin Endocrinol Diabetes** 1996;104(4):A10-24
Effects of imidazoline compounds on cytoplasmic Ca2+ concentration and ATP-sensitive K+ channels in pancreatic B-cells. Rustenbeck I, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:42-5
Cellular protective action of angiotensin converting enzyme inhibitors. Tepel M, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:61-3
Expression, but lack of calcium mobilization by high-affinity IgE Fc epsilon receptor I on human epidermal and dermal Langerhans cells. Shibaki A, et al. **Exp Dermatol** 1996 Oct; 5(5):272-8
Synergistic increase in Ca2+ produced by A1 adenosine and muscarinic receptor activation via a pertussis-toxin-sensitive pathway in epithelial cells of the rabbit ciliary body. Farahbakhsh NA, et al. **Exp Eye Res** 1997 Feb;64(2):173-9
Human conjunctival epithelial cells express histamine-1 receptors coupled to phosphoinositide turnover and intracellular calcium mobilization: role in ocular allergic and inflammatory diseases. Sharif NA, et al. **Exp Eye Res** 1996 Aug;63(2):169-78
Synergistic rise in Ca2+ produced by somatostatin and acetylcholine in ciliary body epithelial cells. Xia SL, et al. **Exp Eye Res** 1997 Apr;64(4):627-35
Amyotrophic lateral sclerosis immunoglobulins increase intracellular calcium in a motoneuron cell line. Colom LV, et al. **Exp Neurol** 1997 Aug;146(2):354-60
3-Nitropropionic acid increases the intracellular Ca2+ in cultured astrocytes by reverse operation of the Na+-Ca2+ exchanger. Deshpande SB, et al. **Exp Neurol** 1997 May; 145(1):38-45
Toxoplasma gondii: dithiol-induced Ca2+ flux causes egress of parasites from the parasitophorous vacuole. Stommel EW, et al. **Exp Parasitol** 1997 Oct;87(2):88-97
The effect of cromakalim on intracellular [Ca2+] in isolated rat skeletal muscle during fatigue and metabolic blockade. Burton FL, et al. **Exp Physiol** 1997 May;82(3):469-83
Ca2+ mobilization in cultured human bladder smooth muscle cells in response to hypotonic stimuli. Chambers P, et al. **Exp Physiol** 1997 Jul;82(4):677-86
Calibration of Mg(2+)-selective macroelectrodes down to 1 mumol l-1 in intracellular and Ca(2+)-containing extracellular solutions. Lüthi D, et al. **Exp Physiol** 1997 May;82(3):453-67
Inhibition of Ca2+ release in rat atrophied gastrocnemius muscle. Rassier DE, et al. **Exp Physiol** 1997 Jul; 82(4):665-76
Possible role of calcium release from the sarcoplasmic reticulum in pacemaking in guinea-pig sino-atrial node. Rigg L, et al. **Exp Physiol** 1996 Sep;81(5):877-80
The relationship between the intracellular Ca2+ transient and the isometric twitch force in frog muscle fibres. Sun YB, et al. **Exp Physiol** 1996 Sep;81(5):711-24
The action of the peptidoleukotriene LTD4 on intracellular calcium in rat mesangial cells. Ochsner M. **Experientia** 1996 Sep 15;52(9):856-64
Intracellular calcium regulatory systems during ischemia and reperfusion. Altschuld RA. **EXS** 1996;76:87-97 (58 ref.)
Na+/Ca2+ exchanger modulates kainate-triggered Ca2+ signaling in Bergmann glial cells in situ. Kirischuk S, et al. **FASEB J** 1997 Jun;11(7):566-72
[Ca2+] microdomains control agonist-induced Ca2+ release in intact HeLa cells. Montero M, et al. **FASEB J** 1997 Sep;11(11):881-5
Spatial and temporal aspects of cellular calcium signaling. Thomas AP, et al. **FASEB J** 1996 Nov;10(13):1505-17 (94 ref.)
Estrogen receptor mRNA in mineralized tissues of rainbow trout: calcium mobilization by estrogen. Armour KJ, et al. **FEBS Lett** 1997 Jul 7;411(1):145-8
Testosterone induces Ca2+ influx via non-genomic surface receptors in activated T cells. Benten WP, et al. **FEBS Lett** 1997 Apr 28;407(2):211-4
Colchicine affects protein kinase C-induced modulation of synaptic transmission in cultured hippocampal pyramidal cells. Bouron A. **FEBS Lett** 1997 Mar 10;404(2-3):221-6
Expression of a Cu,Zn superoxide dismutase typical of familial amyotrophic lateral sclerosis induces mitochondrial alteration and increase of cytosolic Ca2+ concentration in transfected neuroblastoma SH-SY5Y cells. Carrì MT, et al. **FEBS Lett** 1997 Sep 8;414(2):365-8
Diacylglycerol mediates the thrombin-induced, protein kinase C and Ca2+ independent activation of the Na+/H+ exchanger in platelets. Cavallini L, et al. **FEBS Lett** 1997 Jan 2;400(1):99-102
Propagation of intercellular Ca2+ waves in mechanically stimulated articular chondrocytes. D'Andrea P, et al. **FEBS Lett** 1997 Jan 2;400(1):58-64
Galectin-3 stimulates uptake of extracellular Ca2+ in human Jurkat T-cells. Dong S, et al. **FEBS Lett** 1996 Oct 21; 395(2-3):165-9
Spectral studies on the calcium-binding properties of Mts1 protein and its interaction with target protein. Dukhanina EA, et al. **FEBS Lett** 1997 Jun 30;410(2-3):403-6
Microtubule-active drugs suppress the closure of the permeability transition pore in tumour mitochondria. Evtodienko YV, et al. **FEBS Lett** 1996 Sep 9;393(1):86-8
Activation of the exchange factor Ras-GRF by calcium requires an intact Dbl homology domain. Freshney NW, et al. **FEBS Lett** 1997 Apr 21;407(1):111-5
Unique protein kinase C profile in mouse oocytes: lack of calcium-dependent conventional isoforms suggested by rtPCR and Western blotting. Gangeswaran R, et al. **FEBS Lett** 1997 Jul 28;412(2):309-12
Evidence for a role of C-terminal amino acid residues in skeletal muscle Ca2+ release channel (ryanodine receptor) function. Gao L, et al. **FEBS Lett** 1997 Jul 21;412(1):223-6
Relative importance of inositol (1,4,5)trisphosphate and inositol (1,3,4,5)tetrakisphosphate in Entamoeba histolytica. Giri B, et al. **FEBS Lett** 1996 Sep 9;393(1):109-12
Involvement of extracellular calcium in phosphatidylserine exposure during apoptosis. Hampton MB, et al.

FEBS Lett 1996 Dec 16;399(3):277–82

Capacitative calcium entry is inhibited in vascular endothelial cells by disruption of cytoskeletal microfilaments. Holda JR, et al. **FEBS Lett** 1997 Feb 17;403(2):191–6

Evidence for a Na+–Ca2+ exchanger in rat pancreatic ducts. Hug M, et al. **FEBS Lett** 1996 Nov 18; 397(2–3):298–302

Quantitative study of calcium uptake by tumorigenic bone (TE–85) and neuroblastoma x glioma (NG108–15) cells exposed to extremely–low–frequency (ELF) electric fields. Kenny JS, et al. **FEBS Lett** 1997 Sep 8;414(2):343–8

Mitochondrial deenergization underlies neuronal calcium overload following a prolonged glutamate challenge. Khodorov B, et al. **FEBS Lett** 1996 Nov 18;397(2–3):230–4

Dominant role of mitochondria in protection against a delayed neuronal Ca2+ overload induced by endogenous excitatory amino acids following a glutamate pulse. Khodorov B, et al. **FEBS Lett** 1996 Sep 9;393(1):135–8

Modulation of the ER Ca2+ channel BCC1 from tendrils of Bryonia dioica by divalent cations, protons and H2O2. Klüsener B, et al. **FEBS Lett** 1997 Apr 28;407(2):230–4

The effect of some peptides from the hibernating brain on Ca2+ current in cardiac cells and on the activity of septal neurons. Kokoz YM, et al. **FEBS Lett** 1997 Jul 7; 411(1):71–6

Role of inward K+ channel located at carrot plasma membrane in signal cross–talking of cAMP with Ca2+ cascade. Kurosaki F. **FEBS Lett** 1997 May 12;408(1):115–9

Calcium storage and release properties of F–actin: evidence for the involvement of F–actin in cellular calcium signaling. Lange K, et al. **FEBS Lett** 1996 Oct 21;395(2–3):137–42

Receptor–mediated modulation of recombinant neuronal class E calcium channels. Mehrke G, et al. **FEBS Lett** 1997 May 26;408(3):261–70

Calcium mediates the activation of the inhibitory current induced by odorants in toad olfactory receptor neurons. Morales B, et al. **FEBS Lett** 1997 Feb 3;402(2–3):259–64

Pharmacology of Ca2+ release from red beet microsomes suggests the presence of ryanodine receptor homologs in higher plants. Muir SR, et al. **FEBS Lett** 1996 Oct 14; 395(1):39–42

Nereis sarcoplasmic Ca2+–binding protein has a highly unstructured apo state which is switched to the native state upon binding of the first Ca2+ ion. Prêcheur B, et al. **FEBS Lett** 1996 Oct 14;395(1):89–94

Possible roles of inositol 1,4,5–trisphosphate 3–kinase B in calcium homeostasis. Soriano S, et al. **FEBS Lett** 1997 Feb 10;403(1):1–4

Similar effects of alpha– and beta–SNAP on Ca(2+)–regulated exocytosis. Sudlow AW, et al. **FEBS Lett** 1996 Sep 16;393(2–3):185–8

An increase in cytosolic calcium ion concentration precedes hypoosmotic shock–induced activation of protein kinases in tobacco suspension culture cells. Takahashi K, et al. **FEBS Lett** 1997 Jan 20;401(2–3):202–6

Vitamin D3 elicits calcium response and activates blood monocyte–derived macrophages from patients with vitamin D dependent rickets type II. Takeda E, et al. **FEBS Lett** 1996 Nov 4;396(2–3):157–60

The presence of H+ and Na+ –linked Ca2+ extruding systems in Methanobacterium thermoautotrophicum. Varecka L, et al. **FEBS Lett** 1996 Dec 9;399(1–2):171–4

Crystallographic investigation of the dependence of calcium and phosphate ions for notexin. Westerlund B, et al. **FEBS Lett** 1997 Feb 10;403(1):51–6

Functional importance of the dihydropyridine–sensitive, yet voltage–insensitive store–operated Ca2+ influx of U937 cells. Willmott NJ, et al. **FEBS Lett** 1996 Sep 30; 394(2):159–64

Calcium influx inhibits MT1–MMP processing and blocks MMP–2 activation. Yu M, et al. **FEBS Lett** 1997 Aug 4; 412(3):568–72

Calcium– and pH–linked oligomerization of sorcin causing translocation from cytosol to membranes. Zamparelli C, et al. **FEBS Lett** 1997 Jun 2;409(1):1–6

The Ca2+/calmodulin binding domain of the Ca2+–ATPase linked to the Na+,K+–ATPase alters transport stoichiometry. Zhao J, et al. **FEBS Lett** 1997 May 26;408(3):271–5

Topography of the changes of free calcium ions due to steroid hormone action on human spermatozoa. Kotwicka M, et al. **Folia Histochem Cytobiol** 1997;35(2):99–100

Kinetic effects of extracellular calcium on the potassium outward rectifier in the plasma membrane of Saccharomyces cerevisiae. Scheurmann–Kettner C, et al. **Folia Microbiol (Praha)** 1996;41(1):126–8

Intracellular calcium overload in a model of quinolinic acid neurotoxicity in organotypic culture of rat hippocampus; inhibited by nimodipine. Matyja E. **Folia Neuropathol** 1997; 35(1):8–17

Permeabilization of the inner mitochondrial membrane by Ca2+ ions is stimulated by t–butyl hydroperoxide and mediated by reactive oxygen species generated by mitochondria. Castilho RF, et al. **Free Radic Biol Med** 1995 Mar;18(3):479–86

Two novel antioxidants, U74006F and U78517F, inhibit oxidant–stimulated calcium influx. Munns PL, et al. **Free Radic Biol Med** 1995 Mar;18(3):467–78

Alteration of oxytocin–induced calcium oscillations in clone 9 cells by toxin exposure. Barhoumi R, et al. **Fundam Appl Toxicol** 1996 Oct;33(2):220–8

Endothelin–1 does not modulate O2.release and [Ca(2+)]i variations in resting or differentiated HL–60 cells. Gallois A, et al. **Fundam Clin Pharmacol** 1996;10(1):28–32

Dynamics of the cationic and secretory responses to A–4166 in perifused pancreatic islets. Jijakli H, et al. **Fundam Clin Pharmacol** 1997;11(4):300–4

Mast cell activation involves plasma membrane potential– and thapsigargin–sensitive intracellular calcium pools. Kassel O, et al. **Fundam Clin Pharmacol** 1995;9(6):531–9

Modulation of the calcium sensitivity of the smooth muscle contractile apparatus: molecular mechanisms, pharmacological and pathophysiological implications. Savineau JP, et al. **Fundam Clin Pharmacol** 1997; 11(4):289–99 (103 ref.)

The location of hepatocytes in the rat liver acinus determines their sensitivity to calcium–mobilizing hormones. Tordjmann T, et al. **Gastroenterology** 1996 Nov; 111(5):1343–52

Selective ligand–induced intracellular calcium changes in a population of rat isolated gastric endocrine cells. Zeng N, et al. **Gastroenterology** 1996 Jun;110(6):1835–46

Sexually differentiated role of calcium ions in chicken GnRH–I–stimulated release of LH from anterior pituitary glands from adult domestic chickens. Liu RC, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):267–72

Low concentrations of caffeine raise intracellular calcium concentration only in the presence of extracellular calcium in cultured molluscan neurons. Ahmed IA, et al. **Gen Pharmacol** 1997 Feb;28(2):245–50

Regulation of [Ca2+]i rise activated by doxepin–sensitive H1–histamine receptors in Jurkat cells, cloned human T lymphocytes. Kitamura Y, et al. **Gen Pharmacol** 1996 Mar; 27(2):285–91

Influences of changes in calcium concentrations, cocaine and clonidine on the cardiac effect of acetaldehyde in rat isolated atria. Martínez JL, et al. **Gen Pharmacol** 1997 Aug; 29(2):281–4

Dantrolene blocks the tonic contraction and calcium influx evoked by K+ in ileal longitudinal smooth muscle. Nasu T, et al. **Gen Pharmacol** 1996 Apr;27(3):513–7

Effects of hydralazine on responses to histamine and caffeine in ileal longitudinal muscle and taenia coli of the guinea pig. Nasu T, et al. **Gen Pharmacol** 1997 Mar;28(3):421–5

Dual effects of NMDA–induced intracellular Ca2+ elevations on cGMP levels in cultured cerebellar granule neurons. Oh S, et al. **Gen Pharmacol** 1997 Jan;28(1):153–7

Mechanisms involved in the contractile responses induced by the hydroalcoholic extract of Phyllanthus urinaria on the guinea pig isolated trachea: evidence for participation of tachykinins and influx of extracellular Ca2+ sensitive to ruthenium red. Paulino N, et al. **Gen Pharmacol** 1996 Jul;27(5):795–802

Effect of alteration in the extracellular potassium and calcium on field–stimulated relaxation of the rabbit corpus cavernosum. Saito M, et al. **Gen Pharmacol** 1996 Mar; 27(2):375–8

Modulation of Ca(2+)–activated K+ current by isoprenaline, carbachol, and phorbol ester in cultured (and fresh) rat aortic vascular smooth muscle cells. Satoh H. **Gen Pharmacol** 1996 Mar;27(2):319–24

The antiplatelet aggregatory activity of Acacia nilotica is due to blockade of calcium influx through membrane calcium channels. Shah BH, et al. **Gen Pharmacol** 1997 Aug;29(2):251–5

Inhibitory effects of caffeine on Ca2+ influx and histamine secretion independent of cAMP in rat peritoneal mast cells. Teraoka H, et al. **Gen Pharmacol** 1997 Feb;28(2):237–43

Effects of SC–52458, a new nonpeptide angiotensin II receptor antagonist, on increase in cytoplasmic Ca2+ concentrations and contraction induced by angiotensin II and K(+)–depolarization in guinea–pig taenia coli. Usune S, et al. **Gen Pharmacol** 1996 Oct;27(7):1179–85

Contractile responses and calcium mobilization induced by muscarinic agonists in the rat urinary bladder: effects of age. Yu HI, et al. **Gen Pharmacol** 1997 Apr;28(4):623–8

Two components of potassium outward current in smooth muscle cells from the circular layer of human jejunum. Duridanova DB, et al. **Gen Physiol Biophys** 1997 Mar; 16(1):49–58

The 45Ca2+ uptake by Trichoderma viride mycelium. Correlation with growth and conidiation. Kryštofová S, et al. **Gen Physiol Biophys** 1995 Aug;14(4):323–7

Cytoplasmic calcium fluctuations in calcium overloaded Xenopus laevis oocytes. Poledna J, et al. **Gen Physiol Biophys** 1995 Aug;14(4):339–47

Intracellular and molecular aspects of Ca(2+)–mediated signal transduction in neuronal cells. Račay P, et al. **Gen Physiol Biophys** 1996 Aug;15(4):273–89 (89 ref.)

Control of Ca2+ homeostasis in neuronal cells. Račay P, et al. **Gen Physiol Biophys** 1996 Jun;15(3):193–210 (92 ref.)

Triadic Ca2+ modulates charge movement in skeletal muscle. Stroffekova K, et al. **Gen Physiol Biophys** 1997 Mar;16(1):59–77

Development of a functional assay for Ca2+ release activity of IP3R and expression of an IP3R gene fragment in the baculovirus–insect cell system. Raghu P, et al. **Gene** 1997 Apr 29;190(1):151–6

Rab3A small GTP–binding protein in Ca(2+)–dependent exocytosis. Takai Y, et al. **Genes Cells** 1996 Jul;1(7):615–32 (108 ref.)

Deleterious network: a testable pathogenetic concept of Alzheimer's disease. Ying W. **Gerontology** 1997; 43(4):242–53

Abnormal calcium homeostasis in astrocytes from the trisomy 16 mouse. Bambrick LL, et al. **Glia** 1997 Apr;19(4):352–8

Mammalian retinal glial (Müller) cells express large–conductance Ca(2+)–activated K+ channels that are modulated by Mg2+ and pH and activated by protein kinase A. Bringmann A, et al. **Glia** 1997 Apr;19(4):311–23

P2U nucleotide receptor activation in rat glial cell line induces [Ca2+]i oscillations which depend on cytosolic pH. Czubayko U, et al. **Glia** 1996 Feb;16(2):108–16

Characterization of the hypo–osmolarity–induced Ca2+ response in cultured rat astrocytes. Fischer R, et al. **Glia** 1997 May;20(1):51–8

Lysophosphatidic acid depletes intracellular calcium stores different from those mediating capacitative calcium entry in C6 rat glioma cells. Hildebrandt JP, et al. **Glia** 1997 Jan;19(1):67–73

Bovine serum albumin and lysophosphatidic acid stimulate calcium mobilization and reversal of cAMP–induced stellation in rat spinal cord astrocytes. Manning TJ Jr, et al. **Glia** 1997 Jun;20(2):163–72

Plasma albumin induces calcium waves in rat cortical astrocytes. Nadal A, et al. **Glia** 1997 Apr;19(4):343–51

Effects of oxytocin, prostaglandin F2 alpha and prostaglandin E2 on intracellular free calcium concentrations of longitudinal muscle cells isolated from term pregnant rat myometrium. Kawarabayashi T, et al. **Gynecol Obstet Invest** 1997;43(3):145–9

Effects of long–term maternal intravenous magnesium sulfate therapy on neonatal calcium metabolism and bone mineral content. Schanler RJ, et al. **Gynecol Obstet Invest** 1997; 43(4):236–41

Morphological and functional characteristics of the different cell types in the stria vascularis: a comparison between cells obtained from fresh tissue preparations and cells cultured in vitro. Agrup C, et al. **Hear Res** 1996 Dec 1; 102(1–2):155–66

Gadolinium blocks mechano–electric transducer current in chick cochlear hair cells. Kimitsuki T, et al. **Hear Res** 1996 Nov 1;101(1–2):75–80

Time–varying alterations in the f2–f1 DPOAE response to continuous primary stimulation. II. Influence of local calcium–dependent mechanisms. Kujawa SG, et al. **Hear Res** 1996 Aug;97(1–2):153–64

Acetylcholine response in guinea pig outer hair cells. II. Activation of a small conductance Ca(2+)–activated K+ channel. Nenov AP, et al. **Hear Res** 1996 Nov 1; 101(1–2):149–72

The role of Ca2+ release from sarcoplasmic reticulum in the regulation of sinoatrial node automaticity. Hata T, et al. **Heart Vessels** 1996;11(5):234–41

Diversity of early afterdepolarizations in guinea pig myocytes: spatial characteristics of intracellular Ca2+ concentration. Miura M, et al. **Heart Vessels** 1995; 10(5):266–74

Hypercalcemia and electrolyte disturbances in malignancy. Barri YM, et al. **Hematol Oncol Clin North Am** 1996 Aug; 10(4):775–90 (111 ref.)

Possible involvement of pertussis toxin–sensitive G protein in hepatocyte growth factor–induced signal transduction in cultured rat hepatocytes: pertussis toxin treatment inhibits activation of phospholipid signaling, calcium oscillation, and mitogen–activated protein kinase. Adachi T, et al. **Hepatology** 1997 Aug;26(2):295–300

Making waves: regulation of inositol trisphosphate receptors and propagation of calcium signals in the liver. Joseph SK. **Hepatology** 1997 Sep;26(3):799–801

Adenosine triphosphate mediates intercellular communication in liver: talk ain't exactly cheap. Lidofsky S. **Hepatology** 1997 Mar;25(3):778–9

Altered hepatocellular Ca2+ regulation during hemorrhagic shock and resuscitation. Rose S, et al. **Hepatology** 1997 Feb;25(2):379–84

Dietary NaCl loading increases platelet Ca2+ discharge capacity in salt resistant essential hypertension. Watanabe M. **Hiroshima J Med Sci** 1996 Mar;45(1):23–30

Ion microscopic imaging of calcium during 1,25–dihydroxyvitamin D–mediated intestinal absorption. Fullmer CS, et al. **Histochem Cell Biol** 1996 Aug; 106(2):215–22

The microanatomy of calcium stores in human neutrophils: relationship of structure to function. Pettit EJ, et al. **Histol Histopathol** 1997 Apr;12(2):479–90 (61 ref.)

Human diploid fibroblast cell culture medium contains a factor that increases cytosolic Ca2+ and stimulates prostaglandin synthesis by cultured bovine aortic endothelial cells. Hashimoto T, et al. **Horm Metab Res** 1997 Jan;29(1):38–42

Polymorphism of the human Ca(2+)–sensing receptor gene in Japanese individuals: no relation to non–insulin dependent diabetes mellitus. Koishi S, et al. **Horm Metab Res** 1996 Oct;28(10):541–4

Somatostatin and octreotide interfere with calcium signalling in pancreatic beta–cells but not in normal and pathological parathyroid cells. Ridefelt P, et al. **Horm Metab Res** 1996 Nov;28(11):588–91

Mutations in the Ca(2+)–sensing receptor gene cause autosomal dominant and sporadic hypoparathyroidism. Baron J, et al. **Hum Mol Genet** 1996 May;5(5):601–6

Mutations causing achondroplasia and thanatophoric dysplasia alter bFGF–induced calcium signals in human diploid fibroblasts. Nguyen HB, et al. **Hum Mol Genet** 1997 May;6(5):681–8

Linkage analysis using platelet-activating factor Ca2+ response in transformed lymphoblasts. Brzustowicz LM, et al. **Hypertension** 1997 Jan;29(1 Pt 2):158–64

Alterations in calcium stores in aortic myocytes from spontaneously hypertensive rats. Côrtes SF, et al. **Hypertension** 1997 Jun;29(6):1322–8

Intracellular free calcium abnormalities in fibroblasts from non-insulin-dependent diabetic patients with and without arterial hypertension. Duner E, et al. **Hypertension** 1997 Apr;29(4):1007–13

Afferent and efferent arteriolar vasoconstriction to angiotensin II and norepinephrine involves release of Ca2+ from intracellular stores. Inscho EW, et al. **Hypertension** 1997 Jan;29(1 Pt 2):222–7

Thromboxane A2 mediates the stimulation of inositol 1,4,5-trisphosphate production and intracellular calcium mobilization by bradykinin in neonatal rat ventricular cardiomyocytes. Nakamura F, et al. **Hypertension** 1996 Sep; 28(3):444–9

Hypothalamic hypophyseal inhibitory factor (HHIF) increases intrasynaptosomal free calcium concentration. Ricote M, et al. **Hypertension** 1997 Jun;29(6):1337–43

Cholesterol enhances platelet-derived growth factor-BB-induced [Ca2+]i and DNA synthesis in rat aortic smooth muscle cells. Sachinidis A, et al. **Hypertension** 1997 Jan;29(1 Pt 2):326–33

Oral calcium supplementation reduces intraplatelet free calcium concentration and insulin resistance in essential hypertensive patients. Sánchez M, et al. **Hypertension** 1997 Jan;29(1 Pt 2):531–6

Intracellular Ca2+ modulation by angiotensin II and endothelin-1 in cardiomyocytes and fibroblasts from hypertrophied hearts of spontaneously hypertensive rats. Touyz RM, et al. **Hypertension** 1996 Nov;28(5):797–805

Fc gammaRIIB1 inhibition of BCR-mediated phosphoinositide hydrolysis and Ca2+ mobilization is integrated by CD19 dephosphorylation. Hippen KL, et al. **Immunity** 1997 Jul;7(1):49–58

Phenylarsine oxide (PAO)-mediated activation of phospholipase D in rat basophilic leukemia (RBL-2H3) cells: possible involvement of calcium and protein kinase C. Kumada T, et al. **Immunobiology** 1996 Aug; 195(3):347–59

Inhibition of terminal calcium overload protects against peroxynitrite-induced cellular injury in macrophages. Szabó C, et al. **Immunol Lett** 1996 Jul;51(3):163–7

Impaired calcium mobilization and differential tyrosine phosphorylation in intestinal intraepithelial lymphocytes. Sanchez-Garcia FJ, et al. **Immunology** 1997 May;91(1):81–7

Modulation of human T-lymphocyte plasma membrane Ca2+ permeability by imidazole antimycotics. Hornstein EH, et al. **Immunopharmacol Immunotoxicol** 1996 May; 18(2):237–45

Individual and combined effects of calciotropic hormones and growth factors on mineral metabolism in embryonic chick tibiae. Duvos C, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun;33(6):473–8

Interactions of intracellular pH and intracellular calcium in primary cultures of rabbit corneal epithelial cells. Grant RL, et al. **In Vitro Cell Dev Biol Anim** 1996 Jan;32(1):38–45

Redox state of pyridine nucleotides, but not glutathione, regulate Ca2+ release by H2O2 from mitochondria of pulmonary smooth muscle. Roychoudhury S, et al. **Indian J Biochem Biophys** 1996 Jun;33(3):218–22

Paradoxical influence of Ca(2+) on lipid peroxidation. Gupta M, et al. **Indian J Exp Biol** 1996 Nov;34(11):1071–6 (61 ref.)

Role of calcium influx & energy metabolism in histamine release by filarial antigen in Mastomys natalensis experimentally infected with Brugia malayi. Muralidhara P, et al. **Indian J Med Res** 1996 Apr;103:216–21

Effects of three different Ca(2+)-ATPase inhibitors on Ca2+ response and leukotriene release in RBL-2H3 cells. Akasaka R, et al. **Inflamm Res** 1996 Dec;45(12):583–9

Effects of histamine on intracellular calcium transients recorded with Fura-2 in renal pacemaker cells in guinea pig. Moss J, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S95–6

Mast cell adenosine induced calcium mobilization via Gi3 and Gq proteins. Hoffman HM, et al. **Inflammation** 1997 Feb;21(1):55–68

Investigation of presumptive mobilization pathways for calcium in the steroidogenic action of big prothoracicotropic hormone. Girgenrath S, et al. **Insect Biochem Mol Biol** 1996 May;26(5):455–63

Subset-specific analysis of calcium fluxes in murine AIDS. Moutschen M, et al. **Int Immunol** 1996 Nov;8(11):1715–27

Regulation of cell spreading during differentiation in the muscarinic M5 receptor tumor-suppressor model. Spoonster JR, et al. **Int J Cancer** 1997 Jul 17;72(2):362–8

Elemental distribution of Ca and S in the process of otoconial biomineralization. Crespo PV, et al. **Int J Dev Biol** 1996; Suppl 1:267S–268S

On the role of calcium during chemotactic signalling and differentiation of the cellular slime mould Dictyostelium discoideum. Malchow D, et al. **Int J Dev Biol** 1996 Feb; 40(1):135–9 (43 ref.)

Muscarinic and purinergic Ca2+ mobilizations in the neural retina of early embryonic chick. Sakaki Y, et al. **Int J Dev Neurosci** 1996 Oct;14(6):691–9

Transforming growth factor alpha treatment alters intracellular calcium levels in hair cells and protects them from ototoxic damage in vitro. Staecker H, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):553–62

Effect of a prolonged glutamate challenge on plasmalemmal calcium permeability in mammalian central neurones. Mn2+ as a tool to study calcium influx pathways. Khodorov BI, et al. **Int J Neurosci** 1996 Dec; 88(3–4):215–41

Bepridil exacerbates glutamate-induced deterioration of calcium homeostasis and cultured nerve cell injury. Storozhevykh TP, et al. **Int J Neurosci** 1996 Dec; 88(3–4):199–214

The effect of 6'-galactooligosaccharides on bone mineralization of rats adapted to different levels of dietary calcium. Chonan O, et al. **Int J Vitam Nutr Res** 1996; 66(3):244–9

The alginate reduce the postprandial glycaemic response by forming a gel with dietary calcium in the stomach of the rat. Ohta A, et al. **Int J Vitam Nutr Res** 1997;67(1):55–61

Effects of iron replenishment on iron, calcium, phosphorus and magnesium metabolism in iron-deficient rats. Pallarés I, et al. **Int J Vitam Nutr Res** 1996;66(2):158–65

Verapamil inhibits to different extents agonist-induced Ca2+ transients in human tumor cells and in vitro tumor cell growth. Brocchieri A, et al. **Invasion Metastasis** 1996; 16(2):56–64

Stimulation of P2U purinergic or alpha 1A adrenergic receptors mobilizes Ca2+ in lens cells. Churchill GC, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):855–65

Differential effects of diltiazem and nitroglycerin on cytosolic Ca2+ concentration and on force in the bovine ophthalmic artery. Hiroishi G, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2612–23

Confocal imaging of Ca2+ signaling in cultured rat retinal pigment epithelial cells during mechanical and pharmacologic stimulation. Stalmans P, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):176–87

Endothelin receptor-mediated Ca2+ signaling and isoform expression in bovine corneal epithelial cells. Tao W, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):130–41

Regulation of calcium release channel in sarcoplasmic reticulum. Kasai M, et al. **Ion Channels** 1996;4:303–31 (41 ref.)

Calcium-activated potassium channels in adrenal chromaffin cells. Lingle CJ, et al. **Ion Channels** 1996;4:261–301 (104 ref.)

FeLV envelope protein (gp70) variable region 5 causes alterations in calcium homeostasis and toxicity of neurons. Mitchell TW, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Apr 1;14(4):307–20

A cloned Ca(2+)-sensing receptor: a mediator of direct effects of extracellular Ca2+ on renal function? Brown EM, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1530–40 (99 ref.)

Calcium-regulated protein tyrosine phosphorylation is required for endothelin-1 to induce prostaglandin endoperoxide synthase-2 mRNA expression and protein synthesis in mesangial cells. Coroneos EJ, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1080–90

Regulation of capacitative calcium influx in cultured human mesangial cells: roles of protein kinase C and calmodulin. Menè P, et al. **J Am Soc Nephrol** 1996 Jul;7(7):983–90

Rise in cytosolic Ca2+ and collapse of mitochondrial potential in anoxic, but not hypoxic, rat proximal tubules. Peters SM, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2348–56

Evidence for a role of intracellular-calcium release in nitric oxide-stimulated relaxation of the rabbit corpus cavernosum. Levin RM, et al. **J Androl** 1997 May-Jun; 18(3):246–9

Effect of inotropic interventions on contraction and Ca2+ transients in the human heart. Brixius K, et al. **J Appl Physiol** 1997 Aug;83(2):652–60

Hydrogen peroxide disrupts Ca2+ release from the sarcoplasmic reticulum of rat skeletal muscle fibers [see comments] Brotto MA, et al. **J Appl Physiol** 1996 Aug; 81(2):731–7. Comment in: J Appl Physiol 1997 Jun;82(6):2054–6.

Effects of tissue fractionation on exercise-induced alterations in SR function in rat gastrocnemius muscle. Chin ER, et al. **J Appl Physiol** 1996 Mar;80(3):940–8

Effect of intracellular pH on ferret pulmonary arterial smooth muscle cell calcium homeostasis and pressure. Farrukh IS, et al. **J Appl Physiol** 1996 Feb;80(2):496–505

Diaphragm disuse reduces Ca2+ uptake capacity of sarcoplasmic reticulum. Howell S, et al. **J Appl Physiol** 1997 Jan;82(1):164–71

Compartmental analysis of Ca2+ kinetics in long-lasting diaphragm fatigue: loss of t-tubular membrane Ca2+. Howell S. **J Appl Physiol** 1996 Jun;80(6):2009–18

O2 availability modulates transmembrane Ca2+ flux via second-messenger pathways in anoxia-tolerant hepatocytes. Land SC, et al. **J Appl Physiol** 1997 Mar; 82(3):776–83

Effects of salbutamol on intracellular calcium oscillations in porcine airway smooth muscle. Prakash YS, et al. **J Appl Physiol** 1997 Jun;82(6):1836–43

Elevated intracellular Ca2+ and myofibrillar Ca2+ sensitivity cause iodoacetate-induced muscle contractures. Ruff RL. **J Appl Physiol** 1996 Sep;81(3):1230–9

L-type Ca2+ channel and Na+/Ca2+ exchange inhibitors reduce Ca2+ accumulation in reperfused skeletal muscle. Welsh DG, et al. **J Appl Physiol** 1996 Apr;80(4):1263–9

Contractile apparatus and sarcoplasmic reticulum function: effects of fatigue, recovery, and elevated Ca2+. Williams JH. **J Appl Physiol** 1997 Aug;83(2):444–50

Inhibition of calcium transport by mercury salts in rat cerebellum and cerebral cortex in vitro. Yallapragada PR, et al. **J Appl Toxicol** 1996 Jul-Aug;16(4):325–30

Sympathetic and VIP-ergic control of calcium and bicarbonate transport in the feline gall bladder mucosa in vivo. Nilsson B, et al. **J Auton Nerv Syst** 1996 Aug 27; 60(1–2):49–55

Yersinia pestis LcrV forms a stable complex with LcrG and may have a secretion-related regulatory role in the low-Ca2+ response. Nilles ML, et al. **J Bacteriol** 1997 Feb;179(4):1307–16

Requirement of calcium influx for hydrolytic action of membrane phospholipids by cytosolic phospholipase A2 rather than mitogen-activated protein kinase activation in Fc epsilon RI-stimulated rat peritoneal mast cells. Ishimoto T, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1247–52

Induction of calcium release from isolated sarcoplasmic reticulum by triphenyltin. Kang JJ, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):173–7

Protection of scallop sarcoplasmic reticulum ATPase from thermal inactivation by removal of calcium from high-affinity binding sites on the enzyme. Nagata Y, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1100–5

Ca2+ signaling and intracellular Ca2+ binding proteins. Niki I, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):685–98 (221 ref.)

Identification of the Ca(2+)-binding domains in reticulocalbin, an endoplasmic reticulum resident Ca(2+)-binding protein with multiple EF-hand motifs. Tachikui H, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):145–9

Role of calcium in tumor necrosis factor-alpha production by activated macrophages. Watanabe N, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1190–5

Analytical studies of spontaneous and vasopressin-induced calcium oscillations in cultured vascular smooth muscle cells. Wu SN, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):42–8

Kinetics of depolarization-induced calcium release from skeletal muscle triads in vitro. Yamaguchi N, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):432–9

Ricin disturbs calcium homeostasis in the rabbit heart. Ma L, et al. **J Biochem Toxicol** 1995 Dec;10(6):323–8

Ehrlich cell plasma membrane redox system is modulated through signal transduction pathways involving cGMP and Ca2+ as second messengers. del Castillo-Olivares A, et al. **J Bioenerg Biomembr** 1995 Dec;27(6):605–11

Calcium binding to the subunit c of E. coli ATP-synthase and possible functional implications in energy coupling. Zakharov SD, et al. **J Bioenerg Biomembr** 1996 Dec; 28(6):483–94

Novel Ca2+-binding protein (CAPS) related to UNC-31 required for Ca2+-activated exocytosis. Ann K, et al. **J Biol Chem** 1997 Aug 8;272(32):19637–40

Comparison of the effects of phospholamban and jasmone on the calcium pump of cardiac sarcoplasmic reticulum. Evidence for modulation by phospholamban of both Ca2+ affinity and Vmax (Ca) of calcium transport. Antipenko AY, et al. **J Biol Chem** 1997 Jan 31;272(5):2852–60

Differential regulation of nuclear and cytosolic Ca2+ in HeLa cells. Badminton MN, et al. **J Biol Chem** 1996 Dec 6;271(49):31210–4

Identity between the Ca2+-independent phospholipase A2 enzymes from P388D1 macrophages and Chinese hamster ovary cells. Balboa MA, et al. **J Biol Chem** 1997 Mar 28; 272(13):8576–80

The P2U purinoceptor obligatorily engages the heterotrimeric G protein G16 to mobilize intracellular Ca2+ in human erythroleukemia cells. Baltensperger K, et al. **J Biol Chem** 1997 Apr 11;272(15):10151–9

Yeast respond to hypotonic shock with a calcium pulse. Batiza AF, et al. **J Biol Chem** 1996 Sep 20;271(38):23357–62

Kinetic control of the dissociation pathway of calmodulin-peptide complexes. Brown SE, et al. **J Biol Chem** 1997 Feb 7;272(6):3389–97

Calcium-dependent binding of sorcin to the N-terminal domain of synexin (annexin VII). Brownawell AM, et al. **J Biol Chem** 1997 Aug 29;272(35):22182–90

Dyspedic mouse skeletal muscle expresses major elements of the triadic junction but lacks detectable ryanodine receptor protein and function. Buck ED, et al. **J Biol Chem** 1997 Mar 14;272(11):7360–7

Cooperative effect of calcium binding to adjacent troponin molecules on the thin filament-myosin subfragment 1 MgATPase rate. Butters CA, et al. **J Biol Chem** 1997 May 16;272(20):13196–202

The polymerization pocket "a" within the carboxyl-terminal region of the gamma chain of human fibrinogen is adjacent to but independent from the calcium-binding site. C-ot-e HC, et al. **J Biol Chem** 1997 Sep 19;272(38):23792–8

Coagulation factors VII and X induce Ca2+ oscillations in Madin-Darby canine kidney cells only when proteolytically active. Camerer E, et al. **J Biol Chem** 1996 Nov 15;271(46):29034–42

Molecular cloning of a novel variant of the pituitary adenylate cyclase-activating polypeptide (PACAP) receptor that stimulates calcium influx by activation of L-type calcium channels. Chatterjee TK, et al. **J Biol Chem** 1996 Dec 13;271(50):32226–32

Activated function of the pyruvate dehydrogenase phosphatase through Ca2+-facilitated binding to the inner lipoyl domain of the dihydrolipoyl acetyltransferase. Chen

G, et al. **J Biol Chem** 1996 Nov 8;271(45):28064–70

Submitochondrial distribution of three key steroidogenic proteins (steroidogenic acute regulatory protein and cytochrome p450scc and 3beta-hydroxysteroid dehydrogenase isomerase enzymes) upon stimulation by intracellular calcium in adrenal glomerulosa cells. Cherradi N, et al. **J Biol Chem** 1997 Mar 21;272(12):7899–907

Bacterial lipopolysaccharide plus interferon-gamma elicit a very fast inhibition of a Ca2+-dependent nitric-oxide synthase activity in human astrocytoma cells. Colasanti M, et al. **J Biol Chem** 1997 Mar 21;272(12):7582–5

Regulation of mitogen-activated protein kinase phosphatase-1 expression by extracellular signal-related kinase-dependent and Ca2+-dependent signal pathways in Rat-1 cells. Cook SJ, et al. **J Biol Chem** 1997 May 16; 272(20):13309–19

The Ca2+-dependent lipid binding domain of P120GAP mediates protein-protein interactions with Ca2+-dependent membrane-binding proteins. Evidence for a direct interaction between annexin VI and P120GAP. Davis AJ, et al. **J Biol Chem** 1996 Oct 4;271(40):24333–6

Adenophostin A can stimulate Ca2+ influx without depleting the inositol 1,4,5-trisphosphate-sensitive Ca2+ stores in the Xenopus oocyte. DeLisle S, et al. **J Biol Chem** 1997 Apr 11;272(15):9956–61

Isoprenylated human brain type I inositol 1,4,5-trisphosphate 5-phosphatase controls Ca2+ oscillations induced by ATP in Chinese hamster ovary cells. De Smedt F, et al. **J Biol Chem** 1997 Jul 11;272(28):17367–75

Contributions of the I and EF hand domains to the divalent cation-dependent collagen binding activity of the alpha2beta1 integrin. Dickeson SK, et al. **J Biol Chem** 1997 Mar 21;272(12):7661–8

A kinetic model for the binding of Ca2+ to the regulatory site of troponin from cardiac muscle. Dong WJ, et al. **J Biol Chem** 1997 Aug 1;272(31):19229–35

Inositol 1,4,5-trisphosphate and calcium regulate the calcium channel function of the hepatic inositol 1,4,5-trisphosphate receptor. Dufour JF, et al. **J Biol Chem** 1997 Jan 31; 272(5):2675–81

Autolysis, Ca2+ requirement, and heterodimer stability in m-calpain. Elce JS, et al. **J Biol Chem** 1997 Apr 25; 272(17):11268–75

Plasma membrane Ca2+ pump isoforms 2a and 2b are unusually responsive to calmodulin and Ca2+. Elwess NL, et al. **J Biol Chem** 1997 Jul 18;272(29):17981–6

Cyclic ADP-ribose enhances coupling between voltage-gated Ca2+ entry and intracellular Ca2+ release. Empson RM, et al. **J Biol Chem** 1997 Aug 22; 272(34):20967–70

The cytoplasmic loop between putative transmembrane segments 6 and 7 in sarcoplasmic reticulum Ca2+-ATPase binds Ca2+ and is functionally important. Falson P, et al. **J Biol Chem** 1997 Jul 11;272(28):17258–62

Platelet-derived growth factor (PDGF)-induced Ca2+ signaling in the CG4 oligodendroglial cell line and in transformed oligodendrocytes expressing the beta-PDGF receptor. Fatatis A, et al. **J Biol Chem** 1997 Feb 14; 272(7):4351–8

Regulation of the AKAP79-protein kinase C interaction by Ca2+/Calmodulin. Faux MC, et al. **J Biol Chem** 1997 Jul 4;272(27):17038–44

Fcgamma receptor I activation triggers a novel Ca2+-activated current selective for monovalent cations in the human monocytic cell line, U937. Floto RA, et al. **J Biol Chem** 1997 Feb 21;272(8):4753–8

Inhibition of calcium-independent mannose 6-phosphate receptor incorporation into trans-Golgi network-derived clathrin-coated vesicles by wortmannin. Gaffet P, et al. **J Biol Chem** 1997 Sep 26;272(39):24170–5

Kinetic properties of nicotinic acid adenine dinucleotide phosphate-induced Ca2+ release. Genazzani AA, et al. **J Biol Chem** 1997 Mar 21;272(12):7669–75

N-methyl-D-aspartate receptors expressed in a nonneuronal cell line mediate subunit-specific increases in free intracellular calcium. Grant ER, et al. **J Biol Chem** 1997 Jan 3;272(1):647–56

An intracellular calcium signal activates p70 but not p90 ribosomal S6 kinase in liver epithelial cells. Graves LM, et al. **J Biol Chem** 1997 Jan 17;272(3):1920–8

Purification and identification of a 28-kDa calcium-regulated heat-stable protein. A novel secretagogue-regulated phosphoprotein in exocrine pancreas. Groblewski GE, et al. **J Biol Chem** 1996 Dec 6;271(49):31502–7

Cyclic ADP-ribose-gated Ca2+ release in sea urchin eggs requires an elevated. Guo X, et al. **J Biol Chem** 1997 Jul 4;272(27):16984–9

Ca2+ entry induced by cyclic ADP-ribose in intact T-lymphocytes. Guse AH, et al. **J Biol Chem** 1997 Mar 28;272(13):8546–50

Regulation of cADP-ribose-induced Ca2+ release by Mg2+ and inorganic phosphate. Guse AH, et al. **J Biol Chem** 1996 Sep 27;271(39):23946–53

A role for protein kinase CbetaI in the regulation of Ca2+ entry in Jurkat T cells. Haverstick DM, et al. **J Biol Chem** 1997 Jun 13;272(24):15426–33

Hydroperoxide-induced increases in intracellular calcium due to annexin VI translocation and inactivation of plasma membrane Ca2+-ATPase. Hoyal CR, et al. **J Biol Chem** 1996 Nov 15;271(46):29205–10

The N-terminal region of the third intracellular loop of the parathyroid hormone (PTH)/PTH-related peptide receptor is critical for coupling to cAMP and inositol phosphate/Ca2+ signal transduction pathways. Huang Z, et al. **J Biol Chem** 1996 Dec 27;271(52):33382–9

Spatial patterns of Ca2+ signals define intracellular distribution of a signaling by Ca2+/Calmodulin-dependent protein kinase II. Inagaki N, et al. **J Biol Chem** 1997 Oct 3;272(40):25195–9

Identification of a novel bone/calcium metabolism-regulating factor in porcine pancreas. Izbicka E, et al. **J Biol Chem** 1996 Sep 20;271(38):23230–4

Both p140(trk) and p75(NGFR) nerve growth factor receptors mediate nerve growth factor-stimulated calcium uptake. Jiang H, et al. **J Biol Chem** 1997 Mar 14; 272(11):6835–7

Properties of a cyclosporin-insensitive permeability transition pore in yeast mitochondria. Jung DW, et al. **J Biol Chem** 1997 Aug 22;272(34):21104–12

Ca2+ binding to the first epidermal growth factor module of coagulation factor VIIa is important for cofactor interaction and proteolytic function. Kelly CR, et al. **J Biol Chem** 1997 Jul 11;272(28):17467–72

Cellular uptake of lead is activated by depletion of intracellular calcium stores. Kerper LE, et al. **J Biol Chem** 1997 Mar 28;272(13):8346–52

Phospholipase C beta and membrane action of calcitriol and estradiol. Le Mellay V, et al. **J Biol Chem** 1997 May 2; 272(18):11902–7

Feedback regulation of ATP-induced Ca2+ signaling in HL-60 cells is mediated by protein kinase A- and C-mediated changes in capacitative Ca2+ entry. Lee H, et al. **J Biol Chem** 1997 Aug 29;272(35):21831–8

Structural determinants of nicotinic acid adenine dinucleotide phosphate important for its calcium-mobilizing activity. Lee HC, et al. **J Biol Chem** 1997 Aug 15;272(33):20378–83

Polarized expression of Ca2+ pumps in pancreatic and salivary gland cells. Role in initiation and propagation of [Ca2+]i waves. Lee MG, et al. **J Biol Chem** 1997 Jun 20; 272(25):15771–6

Polarized expression of Ca2+ channels in pancreatic and salivary gland cells. Correlation with initiation and propagation of [Ca2+]i waves. Lee MG, et al. **J Biol Chem** 1997 Jun 20;272(25):15765–70

Cyclic GMP causes Ca2+ desensitization in vascular smooth muscle by activating the myosin light chain phosphatase. Lee MR, et al. **J Biol Chem** 1997 Feb 21;272(8):5063–8

Ca2+ binding to the first epidermal growth factor-like domain of human blood coagulation factor IX promotes enzyme activity and factor VIII light chain binding. Lenting PJ, et al. **J Biol Chem** 1996 Oct 11;271(41):25332–7

Paxillin is tyrosine-phosphorylated by and preferentially associates with the calcium-dependent tyrosine kinase in rat liver epithelial cells. Li X, et al. **J Biol Chem** 1997 May 30;272(22):14341–8

Endoplasmic reticulum chaperones GRP78 and calreticulin prevent oxidative stress, Ca2+ disturbances, and cell death in renal epithelial cells. Liu H, et al. **J Biol Chem** 1997 Aug 29;272(35):21751–9

The Ca2+-dependent binding of calmodulin to an N-terminal motif of the heterotrimeric G protein beta subunit. Liu M, et al. **J Biol Chem** 1997 Jul 25; 272(30):18801–7

Intracellular Ca2+ pool content and signaling and expression of a calcium pump are linked to virulence in Leishmania mexicana amazonesis amastigotes. Lu HG, et al. **J Biol Chem** 1997 Apr 4;272(14):9464–73

Calcium-dependent, interleukin 1-converting enzyme inhibitor-insensitive degradation of lamin B1 and DNA fragmentation in isolated thymocyte nuclei. McConkey DJ. **J Biol Chem** 1996 Sep 13;271(37):22398–406

Mouse lymphoma cells destined to undergo apoptosis in response to thapsigargin treatment fail to generate a calcium-mediated grp78/grp94 stress response. McCormick TS, et al. **J Biol Chem** 1997 Feb 28; 272(9):6087–92

Collaborative roles for c-Jun N-terminal kinase, c-Jun, serum response factor, and Sp1 in calcium-regulated myocardial gene expression. McDonough PM, et al. **J Biol Chem** 1997 Sep 19;272(38):24046–53

Distinct functions of Gq and G11 proteins in coupling alpha1-adrenoreceptors to Ca2+ release and Ca2+ entry in rat portal vein myocytes. Macrez-Leprêtre N, et al. **J Biol Chem** 1997 Feb 21;272(8):5261–8

G protein heterotrimer Galpha13beta1gamma3 couples the angiotensin AT1A receptor to increases in cytoplasmic Ca2+ in rat portal vein myocytes. Macrez-Leprêtre N, et al. **J Biol Chem** 1997 Apr 11;272(15):10095–102

Smooth muscle cell cycle and proliferation. Relationship between calcium influx and sarco-endoplasmic reticulum Ca2+ATPase regulation. Magnier-Gaubil C, et al. **J Biol Chem** 1996 Nov 1;271(44):27788–94

Evidence for a phorbol ester-insensitive phosphorylation step in capacitative calcium entry in rat thymic lymphocytes [published erratum appears in J Biol Chem 1996 Dec 13;271(50):32482] Marriott I, et al. **J Biol Chem** 1996 Oct 25;271(43):26732–8

The effects of inositol 1,4,5-trisphosphate (InsP3) analogues on the transient kinetics of Ca2+ release from cerebellar microsomes. InsP3 analogues act as partial agonists. Mezna M, et al. **J Biol Chem** 1996 Dec 13;271(50):31818–23

Reciprocal regulation of endothelial nitric-oxide synthase by Ca2+-calmodulin and caveolin. Michel JB, et al. **J Biol Chem** 1997 Jun 20;272(25):15583–6

Inhibition of cytosolic phospholipase A2 by annexin V in differentiated permeabilized HL-60 cells. Evidence of crucial importance of domain I type II Ca2+-binding site in the mechanism of inhibition. Mira JP, et al. **J Biol Chem** 1997 Apr 18;272(16):10474–82

Mechanism of Ca2+ and monosaccharide binding to a C-type carbohydrate-recognition domain of the macrophage mannose receptor. Mullin NP, et al. **J Biol Chem** 1997 Feb 28;272(9):5668–81

Tyrosine hydroxylase gene promoter activity is regulated by both cyclic AMP-responsive element and AP1 sites following calcium influx. Evidence for cyclic amp-responsive element binding protein-independent regulation. Nagamoto-Combs K, et al. **J Biol Chem** 1997 Feb 28;272(9):6051–8

Cloning of a third mammalian Na+-Ca2+ exchanger, NCX3. Nicoll DA, et al. **J Biol Chem** 1996 Oct 4; 271(40):24914–21

Differential regulation of type I and type VIII Ca2+-stimulated adenylyl cyclases by Gi-coupled receptors in vivo. Nielsen MD, et al. **J Biol Chem** 1996 Dec 27;271(52):33308–16

Cyclic ADP-ribose binds to FK506-binding protein 12.6 to release Ca2+ from islet microsomes. Noguchi N, et al. **J Biol Chem** 1997 Feb 7;272(6):3133–6

Heterotrimeric G-protein Gq/11 localized on pancreatic zymogen granules is involved in calcium-regulated amylase secretion. Ohnishi H, et al. **J Biol Chem** 1997 Jun 20; 272(25):16056–61

Calcium binding, but not a calcium-myristoyl switch, controls the ability of guanylyl cyclase-activating protein GCAP-2 to regulate photoreceptor guanylyl cyclase. Olshevskaya EV, et al. **J Biol Chem** 1997 May 30; 272(22):14327–33

Activity-dependent expression of parathyroid hormone-related protein (PTHrP) in rat cerebellar granule neurons. Requirement of PTHrP for the activity-dependent survival of granule neurons. Ono T, et al. **J Biol Chem** 1997 May 30;272(22):14404–11

Identification and characterization of a novel plant phospholipase D that requires polyphosphoinositides and submicromolar calcium for activity in Arabidopsis. Pappan K, et al. **J Biol Chem** 1997 Mar 14;272(11):7048–54

Ca2+ binding to troponin C in skinned skeletal muscle fibers assessed with caged Ca2+ and a Ca2+ fluorophore. Invariance of Ca2+ binding as a function of sarcomere length. Patel JR, et al. **J Biol Chem** 1997 Feb 28; 272(9):6018–27

Ca2+ binding to the first epidermal growth factor-like domain of factor VIIa increases amidolytic activity and tissue factor affinity. Persson E, et al. **J Biol Chem** 1997 Aug 8;272(32):19919–24

Calcium stabilizes fibrillin-1 against proteolytic degradation. Reinhardt DP, et al. **J Biol Chem** 1997 Jan 10;272(2):1231–6

Intracellular calcium stores are not required for Bcl-2-mediated protection from apoptosis. Reynolds JE, et al. **J Biol Chem** 1996 Nov 1;271(44):27739–43

Detection in living cells of Ca2+-dependent changes in the fluorescence emission of an indicator composed of two green fluorescent protein variants linked by a calmodulin-binding sequence. A new class of fluorescent indicators. Romoser VA, et al. **J Biol Chem** 1997 May 16; 272(20):13270–4

The endoplasmic reticulum in PC12 cells. Evidence for a mosaic of domains differently specialized in Ca2+ handling. Rooney E, et al. **J Biol Chem** 1996 Nov 15; 271(46):29304–11

Calcium-sensitive transcriptional activation of the proximal CCAAT regulatory element of the grp78/BiP promoter by the human nuclear factor CBF/NF-Y. Roy B, et al. **J Biol Chem** 1996 Nov 15;271(46):28995–9002

Inducible nitric oxide synthase requires both the canonical calmodulin-binding domain and additional sequences in order to bind calmodulin and produce nitric oxide in the absence of free Ca2+ Ruan J, et al. **J Biol Chem** 1996 Sep 13;271(37):22679–86

Interaction of calcium with native and decarboxylated human factor X. Effect of proteolysis in the autolysis loop on catalytic efficiency and factor Va binding. Sabharwal AK, et al. **J Biol Chem** 1997 Aug 29;272(35):22037–45

Human immunoglobulins inhibit thrombin-induced Ca2+ movements and nitric oxide production in endothelial cells. Schussler O, et al. **J Biol Chem** 1996 Oct 25;271(43):26473–6

Cytosolic alkalinization increases stress-activated protein kinase/c-Jun NH2-terminal kinase (SAPK/JNK) activity and p38 mitogen-activated protein kinase activity by a calcium-independent mechanism. Shrode LD, et al. **J Biol Chem** 1997 May 23;272(21):13653–9

Characterization of a cytosolic and a luminal Ca2+ binding site in the type I inositol 1,4,5-trisphosphate receptor. Sienaert I, et al. **J Biol Chem** 1996 Oct 25;271(43):27005–12

Isolation of a calcium-binding phosphoprotein from the oocytes and hemolymph of the blood-sucking insect Rhodnius prolixus. Silva-Neto MA, et al. **J Biol Chem** 1996 Nov 22;271(47):30227–32

High density distribution of endoplasmic reticulum proteins and mitochondria at specialized Ca2+ release sites in oligodendrocyte processes. Simpson PB, et al. **J Biol Chem** 1997 Sep 5;272(36):22654–61

Mitochondria support inositol 1,4,5-trisphosphate-mediated Ca2+ waves in cultured oligodendrocytes. Simpson PB, et al. **J Biol Chem** 1996 Dec 27;271(52):33493–501

Ectopic expression of phospholamban in fast-twitch skeletal muscle alters sarcoplasmic reticulum Ca2+ transport and muscle relaxation. Slack JP, et al. **J Biol Chem** 1997 Jul 25;272(30):18862-8

Molecular structures involved in L-type calcium channel inactivation. Role of the carboxyl-terminal region encoded by exons 40-42 in alpha1C subunit in the kinetics and Ca2+ dependence of inactivation. Soldatov NM, et al. **J Biol Chem** 1997 Feb 7;272(6):3560-6

Temperature-dependent block of capacitative Ca2+ influx in the human leukemic cell line KU-812. Somasundaram B, et al. **J Biol Chem** 1996 Oct 18;271(42):26096-104

Calcium protects a mesophilic xylanase from proteinase inactivation and thermal unfolding. Spurway TD, et al. **J Biol Chem** 1997 Jul 11;272(28):17523-30

The high affinity calcium-binding sites in the epidermal growth factor module region of vitamin K-dependent protein S. Stenberg Y, et al. **J Biol Chem** 1997 Sep 12; 272(37):23255-60

Induction of cytosolic Ca2+ elevation mediated by Mas-7 occurs through membrane pore formation. Suh BC, et al. **J Biol Chem** 1996 Dec 20;271(51):32753-9

A novel cytosolic calcium-independent phospholipase A2 contains eight ankyrin motifs. Tang J, et al. **J Biol Chem** 1997 Mar 28;272(13):8567-75

Inositol 1,4,5-trisphosphate-dependent oscillations of luminal [Ca2+] in permeabilized HSY cells. Tanimura A, et al. **J Biol Chem** 1996 Nov 29;271(48):30904-8

The self-association and fibronectin-binding sites of fibulin-1 map to calcium-binding epidermal growth factor-like domains. Tran H, et al. **J Biol Chem** 1997 Sep 5; 272(36):22600-6

Distinct regions of troponin I regulate Ca2+-dependent activation and Ca2+ sensitivity of the acto-S1-TM ATPase activity of the thin filament. Van Eyk JE, et al. **J Biol Chem** 1997 Apr 18;272(16):10529-37

Characterization of the bacterial sensor protein PhoQ. Evidence for distinct binding sites for Mg2+ and Ca2+ Véscovi EG, et al. **J Biol Chem** 1997 Jan 17;272(3):1440-3

Store-operated Ca2+ entry and coupling to Ca2+ pool depletion in thapsigargin-resistant cells. Waldron RT, et al. **J Biol Chem** 1997 Mar 7;272(10):6440-7

Depletion of intracellular calcium stores activates smooth muscle cell calcium-independent phospholipase A2. A novel mechanism underlying arachidonic acid mobilization. Wolf MJ, et al. **J Biol Chem** 1997 Jan 17;272(3):1522-6

Ortho-substituted polychlorinated biphenyls alter microsomal calcium transport by direct interaction with ryanodine receptors of mammalian brain. Wong PW, et al. **J Biol Chem** 1997 Jun 13;272(24):15145-53

Spacial compartmentalization of Ca2+ signaling complexes in pancreatic acini. Xu X, et al. **J Biol Chem** 1996 Oct 4;271(40):24684-90

Activation of a novel calcium-dependent protein-tyrosine kinase. Correlation with c-Jun N-terminal kinase but not mitogen-activated protein kinase activation. Yu H, et al. **J Biol Chem** 1996 Nov 22;271(47):29993-8

Evidence that zymogen granules are not a physiologically relevant calcium pool. Defining the distribution of inositol 1,4,5-trisphosphate receptors in pancreatic acinar cells. Yule DI, et al. **J Biol Chem** 1997 Apr 4;272(14):9093-8

Glutathione modulates ryanodine receptor from skeletal muscle sarcoplasmic reticulum. Evidence for redox regulation of the Ca2+ release mechanism. Zable AC, et al. **J Biol Chem** 1997 Mar 14;272(11):7069-77

Cooperative binding of Ca2+ to human interstitial collagenase assessed by circular dichroism, fluorescence, and catalytic activity. Zhang Yn, et al. **J Biol Chem** 1997 Jan 17;272(3):1444-7

What is the role of the convective current density in the real-time calcium response of cultured bone cells to fluid flow? Hung CT, et al. **J Biomech** 1996 Nov;29(11):1403-9

Intracellular Ca2+ stores and extracellular Ca2+ are required in the real-time Ca2+ response of bone cells experiencing fluid flow. Hung CT, et al. **J Biomech** 1996 Nov;29(11):1411-7

Conformational and electrostatic similarity between polyprotonated and Ca(2+)-bound mu-opioid peptides. Zhorov BS, et al. **J Biomol Struct Dyn** 1996 Oct; 14(2):173-83

Anion effects on calcium metabolism [letter] [corrected and republished in J Bone Miner Res 1997 Feb;12(2):298-9] Barzel US. **J Bone Miner Res** 1996 Dec;11(12):1989-90

Anion effects on calcium metabolism [letter; comment] [corrected and republished letter originally printed in J Bone Miner Res 1996 Dec;11(12):1989-90] Barzel US. **J Bone Miner Res** 1997 Feb;12(2):298-9. Comment on: J Bone Miner Res 1996 Jun;11(6):731-6.

Effects of intermittent hPTH(1-34) alone and in combination with 1,25(OH)(2)D(3) or risedronate on endosteal bone remodeling in canine cancellous and cortical bone. Boyce RW, et al. **J Bone Miner Res** 1996 May;11(5):600-13

Cloning and characterization of a calcium-sensing receptor from the hypercalcemic New Zealand white rabbit reveals unaltered responsiveness to extracellular calcium. Butters RR Jr, et al. **J Bone Miner Res** 1997 Apr;12(4):568-79

Stimulation of neonatal mouse calvarial bone resorption by the glucocorticoids hydrocortisone and dexamethasone. Conaway HH, et al. **J Bone Miner Res** 1996 Oct; 11(10):1419-29

Ca2+ oscillations and intercellular Ca2+ waves in ATP-stimulated articular chondrocytes. D'Andrea P, et al. **J Bone Miner Res** 1996 Jul;11(7):946-54

An acute intake of phosphate increases parathyroid hormone secretion and inhibits bone formation in young women. Kärkkäinen M, et al. **J Bone Miner Res** 1996 Dec; 11(12):1905-12

Evidence for an interaction between calcium intake and physical activity on changes in bone mineral density. Specker BL. **J Bone Miner Res** 1996 Oct;11(10):1539-44 (47 ref.)

Na+/Ca2+ exchange in rat osteoblast-like UMR 106 cells. White KE, et al. **J Bone Miner Res** 1996 Nov; 11(11):1666-75

Changes in parathyroid hormone receptor binding affinity during egg laying: implications for calcium homeostasis in chicken. Yasuoka T, et al. **J Bone Miner Res** 1996 Dec; 11(12):1913-20

Molecular basis of depression of Ca2+ sensitivity of tension by acid pH in cardiac muscles of the mouse and the rat. Ding XL, et al. **J Card Fail** 1996 Dec;2(4):319-26

Changes of myocardial contractile state and the intracellular calcium transients during transitions to heart failure: studies in Dahl rat heart failure model. Kihara Y, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S113-20

Gene expression of the Na-Ca exchanger in cardiac hypertrophy. Menick DR, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S69-76 (40 ref.)

Simvastatin releases Ca2+ from a thapsigargin-sensitive pool and inhibits InsP3-dependent Ca2+ mobilization in vascular smooth muscle cells [published erratum appears in J Cardiovasc Pharmacol 1996 Aug;28(2):344] Escobales N, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):383-91

The role of mitochondria in ischemic heart disease. Ferrari R. **J Cardiovasc Pharmacol** 1996;28 Suppl 1:S1-10 (80 ref.)

Effects of thapsigargin and cyclopiazonic acid on intracellular calcium activity in newborn rat cardiomyocytes during their development in primary culture. Gomez JP, et al. **J Cardiovasc Pharmacol** 1996 Mar; 27(3):335-46

Fatty acid oxidation in the heart. Grynberg A, et al. **J Cardiovasc Pharmacol** 1996;28 Suppl 1:S11-7 (21 ref.)

Effects of calcium sensitizers on intracellular calcium handling and myocardial energetics. Hasenfuss G, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S45-51

Possible involvement of altered Na+ -Ca2+ exchange in negative inotropic effects of class I antiarrhythmic drugs on rabbit and rat ventricles. Ito K, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):355-61

Intracellular free Ca2+ movements in cultured cardiac myocytes as shown by rapid scanning confocal microscopy. Tanaka H, et al. **J Cardiovasc Pharmacol** 1996 Jun; 27(6):761-9

Effect of methylisobutyl amiloride on [Na+]i, reperfusion arrhythmias, and function in ischemic rat hearts. Tani M, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):794-801

Protein kinase C modulator effects on parathyroid hormone-induced intracellular calcium and morphologic changes in UMR 106-H5 osteoblastic cells. Babich M, et al. **J Cell Biochem** 1997 May;65(2):276-85

Calcium-calmodulin plays a major role in bradykinin-induced arachidonic acid release by bovine aortic endothelial cells. Briand SI, et al. **J Cell Biochem** 1996 Dec 1;63(3):292-301

Prostaglandin E2 up-regulates insulin-like growth factor binding protein-3 expression and synthesis in human articular chondrocytes by a c-AMP-independent pathway: role of calcium and protein kinase A and C. DiBattista JA, et al. **J Cell Biochem** 1996 Dec 1;63(3):320-33

Vitamin D analog 25-(OH)-16,23E-Diene-26,27-hexafluoro-vitamin D3 induces differentiation of HL60 cells with minimal effects on cellular calcium homeostasis. Gardner JP, et al. **J Cell Biochem** 1996 Dec 15;63(4):500-12

Simultaneous digital imaging analysis of cytosolic calcium and morphological change in platelets activated by surface contact. Ikeda M, et al. **J Cell Biochem** 1996 May; 61(2):292-300

Involvement of calcium-dependent protein kinase C in arsenite-induced genotoxicity in Chinese hamster ovary cells. Liu YC, et al. **J Cell Biochem** 1997 Mar 1;64(3):423-33

Progesterone triggers rapid transmembrane calcium influx and/or calcium mobilization from endoplasmic reticulum, via a pertussis-insensitive G-protein in granulosa cells in relation to luteinization process. Machelon V, et al. **J Cell Biochem** 1996 Jun 15;61(4):619-28

Antithetic effects of ryanodine and ruthenium red on osteoclast-mediated bone resorption and intracellular calcium concentrations. Ritchie CK, et al. **J Cell Biochem** 1995 Oct;59(2):281-9

Filamin translocation is an early endothelial cell inflammatory response to bradykinin: regulation by calcium, protein kinases, and protein phosphatases. Wang Q, et al. **J Cell Biochem** 1996 Sep 1;62(3):383-96

Retinoic acid stimulates matrix calcification and initiates type I collagen synthesis in primary cultures of avian weight-bearing growth plate chondrocytes. Wu LN, et al. **J Cell Biochem** 1997 May;65(2):209-30

Kinesin- and myosin-driven steps of vesicle recruitment for Ca2+-regulated exocytosis. Bi GQ, et al. **J Cell Biol** 1997 Sep 8;138(5):999-1008

A cytosolic serine endopeptidase from Trypanosoma cruzi is required for the generation of Ca2+ signaling in mammalian cells. Burleigh BA, et al. **J Cell Biol** 1997 Feb 10;136(3):609-20

Calcium release at fertilization in starfish eggs is mediated by phospholipase Cgamma. Carroll DJ, et al. **J Cell Biol** 1997 Sep 22;138(6):1303-11

Direct Ca2+-dependent heterophilic interaction between desmosomal cadherins, desmoglein and desmocollin, contributes to cell-cell adhesion. Chitaev NA, et al. **J Cell Biol** 1997 Jul 14;138(1):193-201

Microdomain Ca2+ activation during exocytosis in Paramecium cells. Superposition of local subplasmalemmal calcium store activation by local Ca2+ influx. Erxleben C, et al. **J Cell Biol** 1997 Feb 10;136(3):597-607

Maintenance of calcium homeostasis in the endoplasmic reticulum by Bcl-2. He H, et al. **J Cell Biol** 1997 Sep 22; 138(6):1219-28

Calcium waves along the cleavage furrows in cleavage-stage Xenopus embryos and its inhibition by heparin. Muto A, et al. **J Cell Biol** 1996 Oct;135(1):181-90

Dynamic properties of an inositol 1,4,5-trisphosphate- and thapsigargin-insensitive calcium pool in mammalian cell lines. Pizzo P, et al. **J Cell Biol** 1997 Jan 27;136(2):355-66

Dynamics of ATP-induced calcium signaling in single mouse thymocytes. Ross PE, et al. **J Cell Biol** 1997 Sep 8; 138(5):987-98

A correlative analysis of actin filament assembly, structure, and dynamics. Steinmetz MO, et al. **J Cell Biol** 1997 Aug 11;138(3):559-74

Regulation of calreticulin gene expression by calcium. Waser M, et al. **J Cell Biol** 1997 Aug 11;138(3):547-57

Local perinuclear calcium signals associated with mitosis-entry in early sea urchin embryos. Wilding M, et al. **J Cell Biol** 1996 Oct;135(1):191-9

Expression of TRPC3 in Chinese hamster ovary cells results in calcium-activated cation currents not related to store depletion. Zitt C, et al. **J Cell Biol** 1997 Sep 22; 138(6):1333-41

Membrane depolarization in NRK fibroblasts by bradykinin is mediated by a calcium-dependent chloride conductance. De Roos AD, et al. **J Cell Physiol** 1997 Feb;170(2):166-73

Calcium is transported into the lumen of pig thyroid follicles by fluid phase basolateral to apical transcytosis. Fonlupt P, et al. **J Cell Physiol** 1997 Apr;171(1):43-51

Up-regulation of Ca2+ influx mediated by store-operated channels in HL60 cells induced to differentiate by 1 alpha,25-dihydroxyvitamin D3. Gardner JP, et al. **J Cell Physiol** 1997 Sep;172(3):284-95

Role of cadherins 5 and 13 in the aortic endothelial barrier. Haselton FR, et al. **J Cell Physiol** 1997 Jun;171(3):243-51

Effects of caffeine on the influx of extracellular calcium in GH4C1 pituitary cells. Karhapää L, et al. **J Cell Physiol** 1997 Apr;171(1):52-60

Effects of buffering intracellular free calcium on neutrophil migration through three-dimensional matrices. Mandeville JT, et al. **J Cell Physiol** 1997 May;171(2):168-78

Existence, properties, and functional expression of "Maxi-K"-type, Ca2+-activated K+ channels in short-term cultured hepatocytes. Pon DC, et al. **J Cell Physiol** 1997 Apr;171(1):87-94

Nitric oxide induces transient Ca2+ changes in endothelial cells independent of cGMP. Volk T, et al. **J Cell Physiol** 1997 Sep;172(3):296-305

Rapid elevation of neuronal cytoplasmic calcium by apolipoprotein E peptide. Wang XS, et al. **J Cell Physiol** 1997 Oct;173(1):73-83

Shear stress induction of the endothelial nitric oxide synthase gene is calcium-dependent but not calcium-activated. Xiao Z, et al. **J Cell Physiol** 1997 May;171(2):205-11

Annexins II, IV, V and VI relocate in response to rises in intracellular calcium in human foreskin fibroblasts. Barwise JL, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):247-55

Mechanisms for the coordination of intercellular calcium signaling in insulin-secreting cells. Cao D, et al. **J Cell Sci** 1997 Feb;110 (Pt 4):497-504

Mechanical stimulation initiates cell-to-cell calcium signaling in ovine lens epithelial cells. Churchill GC, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):355-65

Human osteoclast-like cells selectively recognize laminin isoforms, an event that induces migration and activates Ca2+ mediated signals. Colucci S, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1527-35

Characterization of VIP36, an animal lectin homologous to leguminous lectins. Fiedler K, et al. **J Cell Sci** 1996 Jan; 109 (Pt 1):271-6

Ca2+-dependent interaction of S100A2 with muscle and nonmuscle tropomyosins. Gimona M, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):611-21

Calcium ions and tyrosine phosphorylation interact coordinately with actin to regulate cytoprotective responses to stretching. Glogauer M, et al. **J Cell Sci** 1997 Jan;110 (Pt 1):11-21

Calcium-independent regulation of pigment granule aggregation and dispersion in teleost retinal pigment epithelial cells. King-Smith C, et al. **J Cell Sci** 1996 Jan; 109 (Pt 1):33-43

Imaging of Ca2+ transients induced in Paramecium cells by a polyamine secretagogue. Klauke N, et al. **J Cell Sci** 1997 Apr;110 (Pt 8):975-83

Tip localized Ca2+ pulses are coincident with peak pulsatile growth rates in pollen tubes of Lilium longiflorum. Messerli M, et al. **J Cell Sci** 1997 Jun;110 (Pt 11):1269-78

Lung surfactant protein A (SP-A) activates a phosphoinositide/calcium signaling pathway in alveolar

macrophages. Ohmer-Schröck D, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3695-702
Localised and global cytosolic Ca2+ changes in neutrophils during engagement of Cd11b/CD18 integrin visualised using confocal laser scanning reconstruction. Pettit EJ, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1689-94
Dynamics of calcium regulation in Paramecium and possible morphogenetic implication. Prajer M, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):529-35
Cell-type specific calcium signalling in a Drosophila epithelium. Rosay P, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1683-92
How do injured cells communicate with the surviving cell monolayer? Sammak PJ, et al. **J Cell Sci** 1997 Feb;110 (Pt 4):465-75
Calcium mobilization and influx during sperm exocytosis. Spungin B, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1947-55
Antisense RNA inhibition of the putative vacuolar H(+)-ATPase proteolipid of Dictyostelium reduces intracellular Ca2+ transport and cell viability. Xie Y, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):489-97
Intracellular free calcium responses during chemotaxis of Dictyostelium cells. Yumura S, et al. **J Cell Sci** 1996 Nov; 109 (Pt 11):2673-8
Cefamandole and Ca2+ uptake by bovine aortic media. Kokkas B, et al. **J Chemother** 1995 Nov;7 Suppl 4:32-3
Changes in bone mineral density and calcium metabolism in breastfeeding women: a one year follow-up study. Affinito P, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2314-8
Fluprostenol activates phospholipase C and Ca2+ mobilization in human myometrial cells. Carrasco MP, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2104-10
Impaired rapid mineralocorticoid action on free intracellular calcium in pseudohypoaldosteronism. Gamarra F, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):831-4
Disorders of calcium ion sensing. Pearce SH, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2030-5 (50 ref.)
Predominant expression of type II vasoactive intestinal peptide receptors by human T lymphoblastoma cells: transduction of both Ca2+ and cyclic AMP signals. Xia M, et al. **J Clin Immunol** 1996 Jan;16(1):21-30
Overexpression of the rat sarcoplasmic reticulum Ca2+ ATPase gene in the heart of transgenic mice accelerates calcium transients and cardiac relaxation. He H, et al. **J Clin Invest** 1997 Jul 15;100(2):380-9
Glucose-stimulated insulin secretion correlates with changes in mitochondrial and cytosolic Ca2+ in aequorin-expressing INS-1 cells. Kennedy ED, et al. **J Clin Invest** 1996 Dec 1;98(11):2524-38
Stochastic nature and red cell population distribution of the sickling-induced Ca2+ permeability. Lew VL, et al. **J Clin Invest** 1997 Jun 1;99(11):2727-35
Functional characterization of calcium-sensing receptor mutations expressed in human embryonic kidney cells. Pearce SH, et al. **J Clin Invest** 1996 Oct 15;98(8):1860-6
cGMP-stimulated cyclic nucleotide phosphodiesterase regulates the basal calcium current in human atrial myocytes. Rivet-Bastide M, et al. **J Clin Invest** 1997 Jun 1;99(11):2710-8
Stimulus coupling to transcription versus secretion in pheochromocytoma cells. Convergent and divergent signal transduction pathways and the crucial roles for route of cytosolic calcium entry and protein kinase C. Tang K, et al. **J Clin Invest** 1997 Sep 1;100(5):1180-92
Cytosolic Ca2+ and protein kinase Calpha couple cellular metabolism to membrane K+ permeability in a human biliary cell line. Wang Y, et al. **J Clin Invest** 1997 Jun 15;99(12):2890-7
Cytosolic-free calcium increases to greater than 100 micromolar in ATP-depleted proximal tubules. Weinberg JM, et al. **J Clin Invest** 1997 Aug 1;100(3):713-22
Chronic ethanol administration to rats decreases receptor-operated mobilization of intracellular ionic calcium in cultured hepatocytes and inhibits 1,4,5-inositol trisphosphate production: relevance to impaired liver regeneration. Zhang BH, et al. **J Clin Invest** 1996 Sep 1; 98(5):1237-44
Ca2+ sensitivity and caffeine-induced changes in skinned cardiac muscle fibers of the carp, Cyprinus carpio. Chugun A, et al. **J Comp Physiol [B]** 1996;166(7):412-7
A non-invasive vibrating calcium-selective electrode measures acetylcholine-induced calcium flux across the sarcolemma of a smooth muscle. Devlin CL, et al. **J Comp Physiol [B]** 1996;166(4):270-7
Active calcium ion transport Xenopus laevis skin. Guirguis SM, et al. **J Comp Physiol [B]** 1997 Jul;167(5):328-34
Octanoate increases cytosolic Ca2+ concentration and membrane conductance in ovine pancreatic acinar cells. Katoh K, et al. **J Comp Physiol [B]** 1996;166(6):369-74
In vitro studies on calcium absorption from the gastrointestinal tract in small ruminants. Schröder B, et al. **J Comp Physiol [B]** 1997 Jan;167(1):43-51
Na(+)-dependent Ca2+ uptake in isolated opercular epithelium of Fundulus heteroclitus. Verbost PM, et al. **J Comp Physiol [B]** 1997 Apr;167(3):205-12
Modulation of postthaw motility, survival, calcium uptake, and fertility of bovine sperm by female genital products. Lapointe S, et al. **J Dairy Sci** 1996 Dec;79(12):2155-62
Modulation of postthaw motility, survival, calcium uptake, and fertility of bovine sperm by magnesium and manganese. Lapointe S, et al. **J Dairy Sci** 1996 Dec;79(12):2163-9
Human neutrophil collagenase MMP-8 in peri-implant sulcus fluid and its inhibition by clodronate. Teronen O, et al. **J Dent Res** 1997 Sep;76(9):1529-37
Different effects of azole-antifungal agents on the regulation of intracellular calcium concentration of Trichophyton rubrum. Inoue I, et al. **J Dermatol Sci** 1996 Jun;12(2):156-62
Ca2+ receptor mRNA and protein increase in the rat parathyroid gland with advancing age. Autry CP, et al. **J Endocrinol** 1997 Jun;153(3):437-44
Roles of GTP and phospholipase C in the potentiation of Ca(2+)-induced insulin secretion by glucose in rat pancreatic islets. Vadakekalam J, et al. **J Endocrinol** 1997 Apr;153(1):61-71
The cause of maintained hypercalciuria after the surgical cure of primary hyperparathyroidism is a defect in renal calcium reabsorption. Farias ML, et al. **J Endocrinol Invest** 1996 Jan;19(1):12-20
Capacitative calcium entry in rat Sertoli cells. Rossato M, et al. **J Endocrinol Invest** 1996 Sep;19(8):516-23
Differences in PTH (1-84) release in response to ambient calcium concentrations of parathyroid adenoma fragments and dispersed parathyroid adenoma cells in culture. Yu M, et al. **J Endocrinol Invest** 1996 Jun;19(6):342-7
Involvement of calcium in the cardiac depressant actions of a garlic dialysate. Martín N, et al. **J Ethnopharmacol** 1997 Jan;55(2):113-8
Role of the Ca(2+)-sensing receptor in divalent mineral ion homeostasis. Hebert SC, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):295-302 (73 ref.)
Ionic composition of endolymph in teleosts: origin and importance of endolymph alkalinity. Payan P, et al. **J Exp Biol** 1997 Jul;200 (Pt 13):1905-12
Characterization of the Ca2+ current in isolated terminals of crustacean peptidergic neurons. Richmond JE, et al. **J Exp Biol** 1996 Sep;199 (Pt 9):2053-9
Rho is required for the initiation of calcium signaling and phagocytosis by Fcgamma receptors in macrophages. Hackam DJ, et al. **J Exp Med** 1997 Sep 15;186(6):955-66
Selective activation of the calcium signaling pathway by altered peptide ligands. Sloan-Lancaster J, et al. **J Exp Med** 1996 Oct 1;184(4):1525-30
Kinetics and extent of T cell activation as measured with the calcium signal [see comments] Wülfing C, et al. **J Exp Med** 1997 May 19;185(10):1815-25. Comment in: J Exp Med 1997 May 19;185(10):1717-9.
Cutaneous transport of Ca2+ in the frog Rana pipiens: significance and specificity. Stiffler DF, et al. **J Exp Zool** 1997 Apr 1;277(5):371-81
Bone changes and mineral metabolism disorders in rats with experimental liver cirrhosis. Nakano A, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1143-54
Calcium signaling in transgenic mice overexpressing cardiac Na(+)-Ca2+ exchanger. Adachi-Akahane S, et al. **J Gen Physiol** 1997 Jun;109(6):717-29
Ca(2+)-induced Ca2+ release phenomena in mammalian sympathetic neurons are critically dependent on the rate of rise of trigger Ca2+. Hernández-Cruz A, et al. **J Gen Physiol** 1997 Feb;109(2):147-67
The amplitude and time course of the myoplasmic free [Ca2+] transient in fast-twitch fibers of mouse muscle. Hollingworth S, et al. **J Gen Physiol** 1996 Nov; 108(5):455-69
Anomalous regulation of the Drosophila Na(+)-Ca2+ exchanger by Ca2+. Hryshko LV, et al. **J Gen Physiol** 1996 Jul;108(1):67-74
Regulation of Ca2+ release by InsP3 in single guinea pig hepatocytes and rat Purkinje neurons. Ogden D, et al. **J Gen Physiol** 1997 Jun;109(6):741-56
Ca2+ influx activated by low pH in Chlamydomonas. Quarmby LM. **J Gen Physiol** 1996 Oct;108(4):351-61
Ca2+-induced Ca2+ release in Chinese hamster ovary (CHO) cells co-expressing dihydropyridine and ryanodine receptors. Suda N, et al. **J Gen Physiol** 1997 May; 109(5):619-31
Calcium dynamics and homeostasis in a mathematical model of the principal cell of the cortical collecting tubule. Tang Y, et al. **J Gen Physiol** 1996 Feb;107(2):207-30
Acceleration of sodium-calcium exchange activity during ATP-induced calcium release in transfected Chinese hamster ovary cells. Vázquez M, et al. **J Gen Physiol** 1997 Jan;109(1):53-60
Molecular dissection of Ca2+ efflux in immortalized proximal tubule cells. White KE, et al. **J Gen Physiol** 1997 Feb;109(2):217-28
Calcium current activated by depletion of calcium stores in Xenopus oocytes. Yao Y, et al. **J Gen Physiol** 1997 Jun; 109(6):703-15
Modulation by food restriction of intracellular calcium signaling in parotid acinar cells of aging Fischer 344 rats. Olsen JG, et al. **J Gerontol A Biol Sci Med Sci** 1997 May; 52(3):B152-8
Altered cellular heterogeneity as a possible mechanism for the maintenance of organ function in senescent animals. Ruhe RC, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan; 52(1):B53-8
Intracellular calcium concentration impairment in hepatocytes from thioacetamide-treated rats. Implications for the activity of Ca(2+)-dependent enzymes. Díez-Fernández C, et al. **J Hepatol** 1996 Apr;24(4):460-7
Pathway and speed of calcium movement from blood to mineralizing enamel. Kawamoto T, et al. **J Histochem Cytochem** 1997 Feb;45(2):213-30
Tissue distribution of human gp330/megalin, a putative Ca(2+)-sensing protein. Lundgren S, et al. **J Histochem Cytochem** 1997 Mar;45(3):383-92
Immunocytochemical localization of Na+,K(+)-ATPase in the calcium-transporting sternal epithelium of the terrestrial isopod Porcellio scaber L. (Crustacea). Ziegler A. **J Histochem Cytochem** 1997 Mar;45(3):437-46
Adrenomedullin acts via stimulation of cyclic AMP and not via calcium signalling in vascular cells in culture. Barker S, et al. **J Hum Hypertens** 1996 Jun;10(6):421-3
Effect of strenuous exercise on agonist-induced platelet cytosolic calcium in man. Haller H, et al. **J Hum Hypertens** 1996 Feb;10(2):99-104
Effect of captopril on intracellular free calcium ([Ca2+]i) of thymocytes in spontaneously hypertensive rats. Xie L, et al. **J Hum Hypertens** 1996 Jun;10(6):425-7
Altered cellular calcium responsiveness to insulin in normal and hypertensive pregnancy. Barbagallo M, et al. **J Hypertens** 1996 Sep;14(9):1081-5
Differential effects of vasopressin and endothelium-1 on vascular contractile and calcium responses in pressurized small arteries from spontaneously hypertensive rats [letter] Bund S. **J Hypertens** 1997 Aug;15(8):911-3
Differences between store-dependent Ca2+ fluxes in lymphocytes from African Americans and whites. Fekete Z, et al. **J Hypertens** 1996 Nov;14(11):1293-9
Alterations of cardiac contractile function are related to changes in membrane calcium transport in spontaneously hypertensive rats. Lammerich A, et al. **J Hypertens** 1995 Nov;13(11):1313-24
Platelet cytosolic calcium concentration, plasma lipids and hypertension. Le Quan Sang KH, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1575-80
Parathyroid hypertensive factor and intracellular calcium regulation. Pang PK, et al. **J Hypertens** 1996 Sep; 14(9):1053-60 (65 ref.)
Diadenosine polyphosphate-induced increase in cytosolic free calcium in vascular smooth muscle cells. Tepel M, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1686-8
Differential effects of vasopressin and endothelin-1 on vascular contractile and calcium responses in pressurized small arteries from spontaneously hypertensive rats [published erratum appears in J Hypertens 1996 Nov;14(11):1382] Touyz RM, et al. **J Hypertens** 1996 Aug; 14(8):983-91
Intracellular Ca2+ elevation and cyclosporin A synergistically induce TGF-beta 1-mediated apoptosis in lymphocytes. Andjelíc S, et al. **J Immunol** 1997 Mar 15; 158(6):2527-34
Ion channels, Ca2+ signaling, and reporter gene expression in antigen-specific mouse T cells. Kerschbaum HH, et al. **J Immunol** 1997 Aug 15;159(4):1628-38
Glutathione depletion is an early and calcium elevation is a late event of thymocyte apoptosis. Macho A, et al. **J Immunol** 1997 May 15;158(10):4612-9
Impaired tyrosine phosphorylation and Ca2+ mobilization, but not degranulation, in lyn-deficient bone marrow-derived mast cells. Nishizumi H, et al. **J Immunol** 1997 Mar 1;158(5):2350-5
Activation of human monocytes and the acute monocytic leukemia cell line (THP-1) by lipoxins involves unique signaling pathways for lipoxin A4 versus lipoxin B4: evidence for differential Ca2+ mobilization. Romano M, et al. **J Immunol** 1996 Sep 1;157(5):2149-54
Selective loss of the calcium ion signaling pathway in T cells maturing toward a T helper 2 phenotype. Sloan-Lancaster J, et al. **J Immunol** 1997 Aug 1;159(3):1160-8
Effect of an ectokinase inhibitor, K252b, on degranulation and Ca2+ signals of RBL-2H3 cells and human basophils. Teshima R, et al. **J Immunol** 1997 Jul 15;159(2):964-9
Integrin-mediated intracellular Ca2+ signaling in Jurkat T lymphocytes. Weismann M, et al. **J Immunol** 1997 Feb 15; 158(4):1618-27
Human umbilical cord blood-derived eosinophils cultured in the presence of IL-3 and IL-5 respond to fMLP with [Ca2+]i variation and O2- production. Zardini DM, et al. **J Immunol Methods** 1997 Jun 23;205(1):1-9
Ni++ as a competitive inhibitor of calcium transport in mitochondria. Bragadin M, et al. **J Inorg Biochem** 1997 Jun;66(4):227-9
Chemotactic 5-oxo-eicosatetraenoic acids induce oxygen radical production, Ca2+-mobilization, and actin reorganization in human eosinophils via a pertussis toxin-sensitive G-protein. Czech W, et al. **J Invest Dermatol** 1997 Jan;108(1):108-12
Activation of keratinocyte nicotinic cholinergic receptors stimulates calcium influx and enhances cell differentiation. Grando SA, et al. **J Invest Dermatol** 1996 Sep;107(3):412-8
Store-operated Ca2+ influx: what is the message from the stores to the membrane? Favre CJ, et al. **J Lab Clin Med** 1996 Jul;128(1):19-26 (95 ref.)
Altered intracellular calcium and phorbol 12,13-dibutyrate binding to intact platelets in young obese subjects. Takaya J, et al. **J Lab Clin Med** 1997 Feb;129(2):245-50
Monocyte chemotactic protein-4: tissue-specific expression and signaling through CC chemokine receptor-2. Godiska R, et al. **J Leukoc Biol** 1997 Mar;61(3):353-60
Undifferentiated U937 cells transfected with chemoattractant receptors: a model system to investigate chemotactic mechanisms and receptor structure/function relationships. Kew RR, et al. **J Leukoc Biol** 1997 Mar;61(3):329-37
Maleylated-BSA induces hydrolysis of PIP2, fluxes of Ca2+,

NF-kappaB binding, and transcription of the TNF-alpha gene in murine macrophages. Misra UK, et al. **J Leukoc Biol** 1996 Dec;60(6):784-92

A cytosolic calcium transient is not necessary for degranulation or oxidative burst in immune complex-stimulated neutrophils. Seetoo KF, et al. **J Leukoc Biol** 1997 Sep;62(3):329-40

Regulation of cytosolic free Ca2+ in cultured rat alveolar macrophages (NR8383). Zhang GH, et al. **J Leukoc Biol** 1997 Sep;62(3):341-8

Modulation of the cytosolic Ca++ concentration by alkylphospho-L-serine analogs: relation to their antiproliferative action. Bergmann J, et al. **J Lipid Mediat Cell Signal** 1997 Jan;15(2):103-14

Effect of membrane potential on phosphatidylserine synthesis and calcium movements in control and CD3-activated Jurkat T cells. Breittmayer JP, et al. **J Lipid Mediat Cell Signal** 1996 Mar;13(2):151-61

Chemical synthesis and actions of 11,12-thiirano-hepoxilin A3. Demin PM, et al. **J Lipid Mediat Cell Signal** 1996 Jan; 13(1):63-72

Lysosphingomyelin-elicited Ca2+ mobilization from rat brain microsomes. Furuya S, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):303-11

Inositol trisphosphate/Ca2+ as messengers of bradykinin B2 and muscarinic acetylcholine m1-m4 receptors in neuroblastoma-derived hybrid cells. Noda M, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):175-85 (44 ref.)

Comparison of PAF- and fMLP-induced [Ca2+]i transients in human polymorphonuclear leukocytes. Nowak D, et al. **J Lipid Mediat Cell Signal** 1996 Mar;13(2):163-75

Intra- and intercellular calcium signaling in human neuroepithelioma cells. Palmer RK, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):169-74 (6 ref.)

High density lipoproteins increase cytoplasmic free calcium in bovine aortic endothelial cells. Su Z, et al. **J Lipid Mediat Cell Signal** 1996 Dec;15(1):5-15

Two effects of lysophosphatidic acid on Ca(2+)-movement in cultured bovine adrenal chromaffin cells. Tokumura A, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):127-35

Ionic permeability on isolated mouse liver nuclei: influence of ATP and Ca2+. Assandri R, et al. **J Membr Biol** 1997 Jun 1;157(3):301-9

Effects of thiol-modifying agents on a K(Ca2+) channel of intermediate conductance in bovine aortic endothelial cells. Cai S, et al. **J Membr Biol** 1997 Jul 15;158(2):147-58

Relationship between extra- and intracellular calcium in distal segments of the renal tubule. Role of the Ca2+ receptor RaKCaR. Champigneulle A, et al. **J Membr Biol** 1997 Mar 15;156(2):117-29

A cyclic nucleotide-dependent chloride conductance in olfactory receptor neurons. Delay RJ, et al. **J Membr Biol** 1997 Sep 1;159(1):53-60

Kinetic analysis of Ca2+/K+ selectivity of an ion channel by single-binding-site models. Gradmann D, et al. **J Membr Biol** 1997 Sep 15;159(2):169-78

Pharmacological evidence that calcium is not required for P2-receptor-stimulated Cl- secretion in HT29-Cl.16E. Guo X, et al. **J Membr Biol** 1997 Feb 1;155(3):239-46

Permeation properties of Na+ and Ca2+ ions through the mouse epsilon2/zeta1 NMDA receptor channel expressed in Xenopus oocytes. Iino M, et al. **J Membr Biol** 1997 Jan 15;155(2):143-56

A bicarbonate- and weak acid-permeable chloride conductance controlled by cytosolic Ca2+ and ATP in rat submandibular acinar cells. Ishikawa T. **J Membr Biol** 1996 Sep;153(2):147-59

Ethanol activates maxi Ca2+-activated K+ channels of clonal pituitary (GH3) cells. Jakab M, et al. **J Membr Biol** 1997 Jun 1;157(3):237-45

On the role of calcium in the regulatory volume decrease (RVD) response in Ehrlich mouse ascites tumor cells. Jorgensen NK, et al. **J Membr Biol** 1997 Jun 1; 157(3):281-99

ATP-sensitive voltage- and calcium-dependent chloride channels in sarcoplasmic reticulum vesicles from rabbit skeletal muscle. Kourie JI. **J Membr Biol** 1997 May 1; 157(1):39-51

Cold-sensitive Ca2+ influx in Paramecium. Kuriu T, et al. **J Membr Biol** 1996 Nov;154(2):163-7

Magnesium inhibition of ryanodine-receptor calcium channels: evidence for two independent mechanisms. Laver DR, et al. **J Membr Biol** 1997 Apr 1;156(3):213-29

Regulation of cation-selective channels in liver cells. Lidofsky SD, et al. **J Membr Biol** 1997 Jun 1;157(3):231-6

Reconstitution of a passive Ca(2+)-transport pathway from the basolateral plasma membrane of rat parotid gland acinar cells. Lockwich T, et al. **J Membr Biol** 1995 Dec; 148(3):277-85

Evidence that calcium release-activated current mediates the biphasic electrical activity of mouse pancreatic beta-cells. Mears D, et al. **J Membr Biol** 1997 Jan 1;155(1):47-59

ADH action on whole-cell currents by cytosolic Ca2+-dependent pathways in aldosterone-treated A6 cells. Nakahari T, et al. **J Membr Biol** 1996 Nov; 154(1):35-44

Characterization of ryanodine-sensitive Ca2+ release from microsomal vesicles of rat parotid acinar cells: regulation by cyclic ADP-ribose. Ozawa T, et al. **J Membr Biol** 1997 Apr 1;156(3):231-9

Chloride-induced Ca2+ release from the sarcoplasmic reticulum of chemically skinned rabbit psoas fibers and isolated vesicles of terminal cisternae. Patel JR, et al. **J Membr Biol** 1996 Nov;154(1):81-9

Leukotriene D4-induced Ca2+ mobilization in Ehrlich ascites tumor cells. Pedersen S, et al. **J Membr Biol** 1997 Jan 1;155(1):61-73

The antifungal imidazole clotrimazole and its major in vivo metabolite are potent blockers of the calcium-activated potassium channel in murine erythroleukemia cells. Rittenhouse AR, et al. **J Membr Biol** 1997 May 15; 157(2):177-91

The cell nucleus: an Eldorado to future calcium research? Santella L. **J Membr Biol** 1996 Sep;153(2):83-92 (100 ref.)

A Ca2+ current activated by release of intracellular Ca2+ stores in rat basophilic leukemia cells (RBL-1). Schofield GG, et al. **J Membr Biol** 1996 Oct;153(3):217-31

Hyperpolarization- and depolarization-activated Ca2+ currents in Paramecium trigger behavioral changes and cGMP formation independently. Schultz JE, et al. **J Membr Biol** 1997 Apr 1;156(3):251-9

Regulation of tight junction resistance in T84 monolayers by elevation in intracellular Ca2+: a protein kinase C effect. Tai YH, et al. **J Membr Biol** 1996 Jan;149(1):71-9

Small inward rectifying K+ channels in coleoptiles: inhibition by external Ca2+ and function in cell elongation. Thiel G, et al. **J Membr Biol** 1996 Jan;149(1):9-20

Mechanism of Ca(2+)-dependent inactivation of L-type Ca2+ channels in GH3 cells: direct evidence against dephosphorylation by calcineurin. Victor RG, et al. **J Membr Biol** 1997 Mar 1;156(1):53-61

Calcium and magnesium: low passive permeability and tubular secretion in the mouse medullary thick ascending limb of Henle's loop (MTAL). Wittner M, et al. **J Membr Biol** 1996 Sep;153(1):27-35

Regulatory volume decrease by SV40-transformed rabbit corneal epithelial cells requires ryanodine-sensitive Ca2+-induced Ca2+ release. Wu X, et al. **J Membr Biol** 1997 Jul 15;158(2):127-36

An L-type calcium channel in renal epithelial cells. Zhang MIN, et al. **J Membr Biol** 1996 Dec;154(3):259-66

Single taste stimuli elicit either increases or decreases in intracellular calcium in isolated catfish taste cells. Zviman MM, et al. **J Membr Biol** 1996 Jan;149(2):81-8

Calcium in secretory vesicles of neurohypophysial nerve endings: quantitative comparison by X-ray microanalysis of cryosectioned and freeze-substituted specimens. Thirion S, et al. **J Microsc** 1997 Apr;186 (Pt 1):28-34

Binding of fibulin-1 to nidogen depends on its C-terminal globular domain and a specific array of calcium-binding epidermal growth factor-like (EG) modules. Adam S, et al. **J Mol Biol** 1997 Sep 19;272(2):226-36

Stimulation of carbohydrate metabolism reduces hypothermia-induced calcium load in fatty acid-perfused rat hearts. Aasum E, et al. **J Mol Cell Cardiol** 1997 Feb; 29(2):527-34

The origin of increased cytoplasmic calcium upon reversal of the Na+/Ca(2+)-exchanger in isolated rat ventricular myocytes. Baartscheer A, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1963-73

Cellular basis of contractile derangements of hypertrophied feline ventricular myocytes. Bailey BA, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1823-35

Characterization of the calcium overload in cultured neonatal rat cardiomyocytes under metabolic inhibition. Barrigon S, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1329-37

Sarcolemmal calcium transporters in myocardial ischemia. Bersohn MM, et al. **J Mol Cell Cardiol** 1997 Sep; 29(9):2525-32

L- and T-type calcium currents differ in finch and rat ventricular cardiomyocytes. Bogdanov KY, et al. **J Mol Cell Cardiol** 1995 Dec;27(12):2581-93

Developmental changes in the effects of pH on contraction and Ca2+ current in rabbit heart. Chen F, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):635-42

Contractile function of cardiomyocytes from the spontaneously hypertensive rat. Delbridge LM, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):723-33

Sarcomere length versus interfilament spacing as determinants of cardiac myofilament Ca2+ sensitivity and Ca2+ binding. Fuchs F, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1375-83

Dual effect of digitalis glycosides on norepinephrine release from human atrial tissue and bovine adrenal chromaffin cells: differential dependence on [Na+]i and [Ca2+]i. Haass M, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1615-27

Phorbol myristate acetate-induced hypertrophy of neonatal rat cardiac myocytes is associated with decreased sarcoplasmic reticulum Ca2+ ATPase (SERCA2) gene expression and calcium reuptake. Hartong R, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2467-77

Effect of ATP depletion on kinetics of Na/Ca exchange-mediated Ca influx in Na-loaded heart cells. Haworth RA, et al. **J Mol Cell Cardiol** 1997 Feb; 29(2):503-14

Effects of calcium channel antagonists on Ca2+ transients in rat and canine cardiomyocytes. Hensley J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1037-43

Early changes in the functions of cardiac sarcoplasmic reticulum in volume-overloaded cardiac hypertrophy in rats. Hisamatsu Y, et al. **J Mol Cell Cardiol** 1997 Apr; 29(4):1097-109

Altered mRNA abundance of calcium transport genes in cardiac myocytes induced by angiotensin II. Ju H, et al. **J Mol Cell Cardiol** 1996 May;28(5):1119-28

Mathematical modeling of relations between the kinetics of free intracellular calcium and mechanical function of myocardium. Katsnelson LB, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):475-86

Magnesium and hydrogen ions inhibit sarcoplasmic reticulum function in cardiac muscle. Kawai M, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1401-13

Progression of left ventricular hypertrophy does not change the sarcoplasmic reticulum calcium store in the spontaneously hypertensive rat heart. Keller E, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):461-9

Procaine enhancement of the rapid cooling contracture and inhibition of the decay of potentiated state in rabbit papillary muscle. Komai H, et al. **J Mol Cell Cardiol** 1995 Dec;27(12):2543-50

Angiotensin I modulates Ca-transport systems in the rat heart through angiotensin II. Krizanova O, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1739-46

Onset of reduced Ca2+ sensitivity of tension during stunning in porcine myocardium. Miller WP, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):689-97

Norepinephrine pretreatment attenuates Ca2+ overloading in rat trabeculae during subsequent metabolic inhibition: improved contractile recovery via an alpha 1-adrenergic, PKC-dependent signaling mechanism. Musters RJ, et al. **J Mol Cell Cardiol** 1997 May;29(5):1341-54

Endothelin-1 and vasopressin activate Ca(2+)-permeable non-selective cation channels in aortic smooth muscle cells: mechanism of receptor-mediated Ca2+ influx. Nakajima T, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):707-22

Effect of acidosis on contraction, intracellular pH and calcium in the rabbit mesenteric small artery. Nakanishi T, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1715-26

Force-relaxant actions of dimethyl sulfoxide on guinea-pig and rabbit papillary muscles. Ogura T, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1777-88

Protein kinase A increases the tension cost and unloaded shortening velocity in skinned rat cardiac muscle. Saeki Y, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1655-63

Dose-dependent increase in sensitivity to calcium-induced mitochondrial dysfunction and cardiomyocyte cell injury by doxorubicin. Solem LE, et al. **J Mol Cell Cardiol** 1996 May;28(5):1023-32

Matching Ca efflux and influx to maintain steady-state levels in cultured cardiac cells. Flux control in the subsarcolemmal cleft. Wang SY, et al. **J Mol Cell Cardiol** 1997 May;29(5):1277-87

Differences in expression of sarcoplasmic reticulum Ca2+-ATPase and Na+-Ca2+ exchanger genes between adjacent and remote noninfarcted myocardium after myocardial infarction. Yoshiyama M, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):255-64

Sarcoplasmic reticulum calcium uptake in human myocardium subjected to ischemia and reperfusion during cardiac surgery. Zucchi R, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1693-701

Bombesin specifically induces intracellular calcium mobilization via gastrin-releasing peptide receptors in human prostate cancer cells. Aprikian AG, et al. **J Mol Endocrinol** 1996 Jun;16(3):297-306

c-fos mRNA and FOS protein expression is induced by Ca2+ influx in GH3B6 pituitary cells. Li SL, et al. **J Mol Endocrinol** 1996 Jun;16(3):229-38

Somatostatin blocks the potentiation of TRH-induced TSH secretion from perifused pituitary fragments and the change in intracellular calcium concentrations from dispersed pituitary cells elicited by prepro-TRH (PS4) or by tri-iodothyronine. Roussel JP, et al. **J Mol Endocrinol** 1997 Aug;19(1):87-97

The role of fetal parathyroid hormone-related protein in transplacental calcium transport. Tucci J, et al. **J Mol Endocrinol** 1996 Oct;17(2):159-64

Sarcoplasmic reticulum Ca2+ATPase and phospholamban mRNA and protein levels in end-stage heart failure due to ischemic or dilated cardiomyopathy. Flesch M, et al. **J Mol Med** 1996 Jun;74(6):321-32

Cytochemical localization of Ca(2+)-ATPases and demonstration of ATP-dependent calcium sequestration in giant smooth muscle fibres of Beroe. Cario C, et al. **J Muscle Res Cell Motil** 1996 Feb;17(1):85-94

Modulation of Ca2+ channels, charge movement and Ca2+ transients by heparin in frog skeletal muscle fibres. Martínez M, et al. **J Muscle Res Cell Motil** 1996 Oct;17(5):575-94

Ca2+ bound to the high affinity divalent cation-binding site of actin enhances actophorin-induced depolymerization of muscle F-actin but inhibits actophorin-induced depolymerization of Acanthamoeba F-actin. Mossakowska M, et al. **J Muscle Res Cell Motil** 1996 Aug;17(4):383-9

Intra-and intercellular calcium waves in cultured human myometrium. Young RC, et al. **J Muscle Res Cell Motil** 1996 Jun;17(3):349-55

Synergistic induction of HL60 cell differentiation by ketoconazole and 1-desoxy analogues of vitamin D3. Wang X, et al. **J Natl Cancer Inst** 1997 Aug 20;89(16):1199-206

MPP+ selectively affects calcium homeostasis in mesencephalic cell cultures from embryonal C57/Bl6 mice. Chen TS, et al. **J Neural Transm Gen Sect** 1995; 100(2):153-63

Distinct calcium signaling within neuronal growth cones and filopodia. Davenport RW, et al. **J Neurobiol** 1996 Sep; 31(1):1-15

Capacitative Ca2+ influx in the neural retina of chick embryo. Sakaki Y, et al. **J Neurobiol** 1997 Jan;32(1):62–8

Transient elevations in intracellular calcium are sufficient to induce sustained responsiveness to the neurotrophic factor bFGF. Schmidt MF, et al. **J Neurobiol** 1996 Nov; 31(3):333–44

Electrically induced changes in Ca2+ in Helisoma neurons: regional and neuron-specific differences and implications for neurite outgrowth. Torreano PJ, et al. **J Neurobiol** 1997 Feb;32(2):150–62

Amyloid beta toxicity consists of a Ca(2+)-independent early phase and a Ca(2+)-dependent late phase. Abe K, et al. **J Neurochem** 1996 Nov;67(5):2074–8

Protein phosphorylation and calcium uptake into rat forebrain synaptosomes: modulation by the sigma ligand, 1,3-ditolylguanidine. Brent PJ, et al. **J Neurochem** 1997 May;68(5):2201–11

Nitric oxide disrupts Ca2+ homeostasis in hippocampal neurons. Brorson JR, et al. **J Neurochem** 1997 Jan; 68(1):95–105

Mitochondria, calcium regulation, and acute glutamate excitotoxicity in cultured cerebellar granule cells. Budd SL, et al. **J Neurochem** 1996 Dec;67(6):2282–91

Oxidant injury in PC12 cells—a possible model of calcium "dysregulation" in aging: II. Interactions with membrane lipids. Denisova NA, et al. **J Neurochem** 1997 Sep; 69(3):1259–66

Muscarinic acetylcholine receptor-mediated induction of zif268 mRNA in PC12D cells requires protein kinase C and the influx of extracellular calcium. Ebihara T, et al. **J Neurochem** 1997 Mar;68(3):1001–10

Selective changes in cell bodies and growth cones of nerve growth factor-differentiated PC12 cells induced by chemical hypoxia. Gibson G, et al. **J Neurochem** 1997 Aug; 69(2):603–11

Lysophosphatidic acid induces a sustained elevation of neuronal intracellular calcium. Holtsberg FW, et al. **J Neurochem** 1997 Jul;69(1):68–75

Inhibition of bradykinin-induced calcium increase by phosphatase inhibitors in neuroblastoma x glioma hybrid NG108-15 cells. Hu SY, et al. **J Neurochem** 1997 Feb; 68(2):846–54

High level expression of the NMDAR1 glutamate receptor subunit in electroporated COS cells. Ishmael JE, et al. **J Neurochem** 1996 Oct;67(4):1500–10

Oxidant injury in PC12 cells—a possible model of calcium "dysregulation" in aging: I. Selectivity of protection against oxidative stress. Joseph JA, et al. **J Neurochem** 1997 Sep; 69(3):1252–8

Lysophosphatidic acid-induced proliferation-related signals in astrocytes. Keller JN, et al. **J Neurochem** 1997 Sep; 69(3):1073–84

Transmitter-induced calcium responses differ in astrocytes acutely isolated from rat brain and in culture. Kimelberg HK, et al. **J Neurochem** 1997 Mar;68(3):1088–98

Mitochondrial permeability transition in the central nervous system: induction by calcium cycling-dependent and -independent pathways. Kristal BS, et al. **J Neurochem** 1997 Aug;69(2):524–38

Arginine-modulated receptor-activated calcium influx via a NO/cyclic GMP pathway in human SK-N-SH neuroblastoma cells. Liu PS, et al. **J Neurochem** 1997 Jan; 68(1):376–82

Increased expression of calbindin D28k via herpes simplex virus amplicon vector decreases calcium ion mobilization and enhances neuronal survival after hypoglycemic challenge. Meier TJ, et al. **J Neurochem** 1997 Sep; 69(3):1039–47

Involvement of intracellular or extracellular calcium in activation of tyrosine hydroxylase gene expression in PC12 cells. Menezes A, et al. **J Neurochem** 1996 Dec; 67(6):2316–24

Hypoxia-induced catecholamine release and intracellular Ca2+ increase via suppression of K+ channels in cultured rat adrenal chromaffin cells. Mochizuki-Oda N, et al. **J Neurochem** 1997 Jul;69(1):377–87

A naturally occurring amino acid substitution of the human serotonin 5-HT2A receptor influences amplitude and timing of intracellular calcium mobilization. Ozaki N, et al. **J Neurochem** 1997 May;68(5):2186–93

Catecholamine secretion from bovine adrenal chromaffin cells: the role of the Na+/Ca2+ exchanger and the intracellular Ca2+ pool. Pan CY, et al. **J Neurochem** 1997 Sep;69(3):1085–92

A2A adenosine receptors inhibit ATP-induced Ca2+ influx in PC12 cells by involving protein kinase A. Park TJ, et al. **J Neurochem** 1997 May;68(5):2177–85

Ischemia-induced inhibition of calcium uptake into rat brain microsomes mediated by Mg2+/Ca2+ ATPase. Parsons JT, et al. **J Neurochem** 1997 Mar;68(3):1124–34

Depletion of neuronal endoplasmic reticulum calcium stores by thapsigargin: effect on protein synthesis. Paschen W, et al. **J Neurochem** 1996 Oct;67(4):1735–43

L-trans-pyrrolidine-2,4-dicarboxylic acid-evoked striatal glutamate levels are attenuated by calcium reduction, tetrodotoxin, and glutamate receptor blockade. Rawls SM, et al. **J Neurochem** 1997 Apr;68(4):1553–63

The amyloid beta-protein of Alzheimer's disease increases acetylcholinesterase expression by increasing intracellular calcium in embryonal carcinoma P19 cells. Sberna G, et al. **J Neurochem** 1997 Sep;69(3):1177–84

beta 25-35 alters calcium homeostasis and induces neurotoxicity in cerebellar granule cells. Scorziello A, et al. **J Neurochem** 1996 May;66(5):1995–2003

Altered calcium homeostasis in cells transformed by mitochondria from individuals with Parkinson's disease. Sheehan JP, et al. **J Neurochem** 1997 Mar;68(3):1221–33

Comparison of type 2 inositol 1,4,5-trisphosphate receptor distribution and subcellular Ca2+ release sites that support Ca2+ waves in cultured astrocytes. Sheppard CA, et al. **J Neurochem** 1997 Jun;68(6):2317–27

Mechanisms of GABA- and glycine-induced increases of cytosolic Ca2+ concentrations in chick embryo ciliary ganglion cells. Sorimachi M, et al. **J Neurochem** 1997 Aug; 69(2):797–805

Role of Na(+)-Ca2+ exchanger in agonist-induced Ca2+ signaling in cultured rat astrocytes. Takuma K, et al. **J Neurochem** 1996 Nov;67(5):1840–5

Early events in free radical-mediated damage of isolated nerve terminals: effects of peroxides on membrane potential and intracellular Na+ and Ca2+ concentrations. Tretter L, et al. **J Neurochem** 1996 May;66(5):2057–66

Amyloid beta protein potentiates Ca2+ influx through L-type voltage-sensitive Ca2+ channels: a possible involvement of free radicals. Ueda K, et al. **J Neurochem** 1997 Jan;68(1):265–71

Extracellular calcium sensing by glial cells: low extracellular calcium induces intracellular calcium release and intercellular signaling. Zanotti S, et al. **J Neurochem** 1997 Aug;69(2):594–602

Actions of neurotoxic beta-amyloid on calcium homeostasis and viability of PC12 cells are blocked by antioxidants but not by calcium channel antagonists. Zhou Y, et al. **J Neurochem** 1996 Oct;67(4):1419–25

Characterization of fluo-3 labelling of dense bodies at the hair cell's presynaptic active zone. Issa NP, et al. **J Neurocytol** 1996 Apr;25(4):257–66

GHRP6-stimulated hormone secretion in somatotrophs: involvement of intracellular and extracellular calcium sources. Bresson-Bepoldin L, et al. **J Neuroendocrinol** 1996 Apr;8(4):309–14

PACAP and VIP stimulate Ca2+ oscillations in rat gonadotrophs through the PACAP/VIP type 1 receptor (PVR1) linked to a pertussis toxin-insensitive G-protein and the activation of phospholipase C-beta. Hezareh M, et al. **J Neuroendocrinol** 1996 May;8(5):367–74

Interferon-gamma activated calcium influx in peripheral blood lymphocytes from patients with primary and secondary progressive multiple sclerosis. Martino G, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):515–7

A strategy for selective anti-cancer drug concentration increase in rat glioma tissue with Ca(2+)-channel blocker co-administration: calcium kinetics in intra-glioma arteriolar smooth muscle cells. Zenke K, et al. **J Neurooncol** 1996 Oct;30(1):25–36

Altered calcium homeostasis and ultrastructure in motoneurons of mice caused by passively transferred anti-motoneuronal IgG. Engelhardt JI, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):21–39

Glutamate-mediated release of Ca2+ in mitral cells of the olfactory bulb. Geiling H, et al. **J Neurophysiol** 1996 Jul; 76(1):563–70

Ca2+ signaling pathways linked to glutamate receptor activation in the somatic and dendritic regions of cultured cerebellar purkinje neurons. Gruol DL, et al. **J Neurophysiol** 1996 Nov;76(5):3325–40

Glutamate modulates intracellular Ca2+ stores in brain stem auditory neurons. Kato BM, et al. **J Neurophysiol** 1996 Jul;76(1):646–50

Activity-dependent [Ca2+]i changes in guinea pig vagal motoneurons: relationship to the slow afterhyperpolarization. Lasser-Ross N, et al. **J Neurophysiol** 1997 Aug;78(2):825–34

Dihydropyridine-sensitive, voltage-gated Ca2+ channels contribute to the resting intracellular Ca2+ concentration of hippocampal CA1 pyramidal neurons. Magee JC, et al. **J Neurophysiol** 1996 Nov;76(5):3460–70

A voltage-dependent and calcium-permeable ion channel in fused presynaptic terminals of Torpedo. Meir A, et al. **J Neurophysiol** 1996 May;75(5):1858–70

Ca2+ release from intracellular stores induced by afferent stimulation of CA3 pyramidal neurons in hippocampal slices. Miller LD, et al. **J Neurophysiol** 1996 Jul; 76(1):554–62

IPSPs modulate spike backpropagation and associated [Ca2+]i changes in the dendrites of hippocampal CA1 pyramidal neurons. Tsubokawa H, et al. **J Neurophysiol** 1996 Nov;76(5):2896–906

Dopamine enhancement and depression of glutamate-regulated calcium and electrical activity in hypothalamic neurons. van den Pol AN, et al. **J Neurophysiol** 1996 Dec;76(6):3934–48

Sequestration of glutamate-induced Ca2+ loads by mitochondria in cultured rat hippocampal neurons. Wang GJ, et al. **J Neurophysiol** 1996 Sep;76(3):1611–21

Induction of LTD in the dentate gyrus in vitro is NMDA receptor independent, but dependent on Ca2+ influx via low-voltage-activated Ca2+ channels and release of Ca2+ from intracellular stores. Wang Y, et al. **J Neurophysiol** 1997 Feb;77(2):812–25

Three distinct G protein pathways mediate inhibition of neuronal calcium current by bradykinin. Wilk-Blaszczak MA, et al. **J Neurophysiol** 1996 Nov;76(5):3559–62

Light-dependent control of calcium in intact rods of the bullfrog Rana catesbeiana. Younger JP, et al. **J Neurophysiol** 1996 Jan;75(1):354–66

Ca2+ permeability of the sustained proton-induced cation current in adult rat dorsal root ganglion neurons. Zeilhofer HU, et al. **J Neurophysiol** 1996 Nov;76(5):2834–40

Visualization of calcium influx through channels that shape the burst and tonic firing modes of thalamic relay cells. Zhou Q, et al. **J Neurophysiol** 1997 May;77(5):2816–25

Eighth nerve activity regulates intracellular calcium concentration of avian cochlear nucleus neurons via a metabotropic glutamate receptor. Zirpel L, et al. **J Neurophysiol** 1996 Dec;76(6):4127–39

Mechanisms and effects of intracellular calcium buffering on neuronal survival in organotypic hippocampal cultures exposed to anoxia/aglycemia or to excitotoxins. Abdel-Hamid KM, et al. **J Neurosci** 1997 May 15; 17(10):3538–53

Ectopic alpha2-adrenoceptors couple to N-type Ca2+ channels in axotomized rat sensory neurons. Abdulla FA, et al. **J Neurosci** 1997 Mar 1;17(5):1633–41

Differential activation and desensitization of sensory neurons by resiniferatoxin. Acs G, et al. **J Neurosci** 1997 Jul 15; 17(14):5622–8

Global ischemia induces downregulation of Glur2 mRNA and increases AMPA receptor-mediated Ca2+ influx in hippocampal CA1 neurons of gerbil. Gorter JA, et al. **J Neurosci** 1997 Aug 15;17(16):6179–88

Alzheimer's presenilin mutation sensitizes neural cells to apoptosis induced by trophic factor withdrawal and amyloid beta-peptide: involvement of calcium and oxyradicals. Guo Q, et al. **J Neurosci** 1997 Jun 1; 17(11):4212–22

Metabotropic glutamate receptor activation modulates kainate and serotonin calcium response in astrocytes. Haak LL, et al. **J Neurosci** 1997 Mar 1;17(5):1825–37

Trophic support of cultured spiral ganglion neurons by depolarization exceeds and is additive with that by neurotrophins or cAMP and requires elevation of [Ca2+]i within a set range. Hegarty JL, et al. **J Neurosci** 1997 Mar 15;17(6):1959–70

Ionized intracellular calcium concentration predicts excitotoxic neuronal death: observations with low-affinity fluorescent calcium indicators. Hyrc K, et al. **J Neurosci** 1997 Sep 1;17(17):6669–77

Control of action potential-induced Ca2+ signaling in the soma of hippocampal neurons by Ca2+ release from intracellular stores. Jacobs JM, et al. **J Neurosci** 1997 Jun 1;17(11):4129–35

GABAB receptors, monoamine receptors, and postsynaptic inositol trisphosphate-induced Ca2+ release are involved in the induction of long-term potentiation at visual cortical inhibitory synapses. Komatsu Y. **J Neurosci** 1996 Oct 15; 16(20):6342–52

Calcium entry through cyclic nucleotide-gated channels in individual cilia of olfactory receptor cells: spatiotemporal dynamics. Leinders-Zufall T, et al. **J Neurosci** 1997 Jun 1;17(11):4136–48

Ca(2+)-permeable AMPA/kainate and NMDA channels: high rate of Ca2+ influx underlies potent induction of injury. Lu YM, et al. **J Neurosci** 1996 Sep 1;16(17):5457–65

5-HT inhibits calcium current and synaptic transmission from sensory neurons in lamprey. El Manira A, et al. **J Neurosci** 1997 Mar 1;17(5):1786–94

The nitric oxide/cGMP pathway couples muscarinic receptors to the activation of Ca2+ influx. Mathes C, et al. **J Neurosci** 1996 Mar 1;16(5):1702–9

Linearized buffered Ca2+ diffusion in microdomains and its implications for calculation of [Ca2+] at the mouth of a calcium channel. Naraghi M, et al. **J Neurosci** 1997 Sep 15;17(18):6961–73

GABA activity mediating cytosolic Ca2+ rises in developing neurons is modulated by cAMP-dependent signal transduction. Obrietan K, et al. **J Neurosci** 1997 Jun 15; 17(12):4785–99

Excitatory GABA responses in embryonic and neonatal cortical slices demonstrated by gramicidin perforated-patch recordings and calcium imaging. Owens DF, et al. **J Neurosci** 1996 Oct 15;16(20):6414–23

Intracellular calcium oscillations in astrocytes: a highly plastic, bidirectional form of communication between neurons and astrocytes in situ. Pasti L, et al. **J Neurosci** 1997 Oct 15;17(20):7817–30

Induction of hippocampal long-term depression requires release of Ca2+ from separate presynaptic and postsynaptic intracellular stores. Reyes M, et al. **J Neurosci** 1996 Oct 1;16(19):5951–60

Calcium homeostasis and reactive oxygen species production in cells transformed by mitochondria from individuals with sporadic Alzheimer's disease. Sheehan JP, et al. **J Neurosci** 1997 Jun 15;17(12):4612–22

Basic fibroblast growth factor increases functional L-type Ca2+ channels in fetal rat hippocampal neurons: implications for neurite morphogenesis in vitro. Shitaka Y, et al. **J Neurosci** 1996 Oct 15;16(20):6476–89

All-or-none Ca2+ release from intracellular stores triggered by Ca2+ influx through voltage-gated Ca2+ channels in rat sensory neurons. Usachev YM, et al. **J Neurosci** 1997 Oct 1;17(19):7404–14

Postsynaptic calcineurin activity downregulates synaptic transmission by weakening intracellular Ca2+ signaling mechanisms in hippocampal CA1 neurons. Wang JH, et al. **J Neurosci** 1997 Jun 15;17(12):4600–11

Impact of cytoplasmic calcium buffering on the spatial and temporal characteristics of intercellular calcium signals in astrocytes. Wang Z, et al. **J Neurosci** 1997 Oct 1; 17(19):7359–71

Facilitation of N-type calcium current is dependent on the frequency of action potential-like depolarizations in dissociated cholinergic basal forebrain neurons of the guinea pig. Williams S, et al. **J Neurosci** 1997 Mar 1; 17(5):1625–32

Calcium influx via the NMDA receptor induces immediate early gene transcription by a MAP kinase/ERK-dependent mechanism. Xia Z, et al. **J Neurosci** 1996 Sep 1; 16(17):5425–36

Direct measurements of presynaptic calcium and calcium-activated potassium currents regulating neurotransmitter release at cultured Xenopus nerve-muscle synapses. Yazejian B, et al. **J Neurosci** 1997 May 1; 17(9):2990–3001

Activation of a metabotropic excitatory amino acid receptor potentiates spike-driven calcium increases in neurons of the dorsolateral septum. Zheng F, et al. **J Neurosci** 1996 Oct 1;16(19):6079–88

Localized and transient elevations of intracellular Ca2+ induce the dedifferentiation of axonal segments into growth cones. Ziv NE, et al. **J Neurosci** 1997 May 15; 17(10):3568–79

Transmitter-induced calcium signalling in cultured neurons of the insect brain. Bicker G. **J Neurosci Methods** 1996 Oct 21;69(1):33–41

Labeling blastomeres with a calcium indicator: a non-invasive method of visualizing neuronal activity in zebrafish. Cox KJ, et al. **J Neurosci Methods** 1996 Oct; 68(2):185–91

Detection of intracellular calcium elevations in Xenopus laevis oocytes: aequorin luminescence versus electrophysiology. Grygorczyk R, et al. **J Neurosci Methods** 1996 Jul;67(1):19–25

Visualization of autophosphorylation of Ca2+/calmodulin-dependent protein kinase II in hippocampal slices. Kindler S, et al. **J Neurosci Methods** 1996 Sep;68(1):61–70

Glutamate receptor-mediated calcium entry in neurons derived from P19 embryonal carcinoma cells. Canzoniero LM, et al. **J Neurosci Res** 1996 Aug 1;45(3):226–36

NMDA receptor-mediated cGMP synthesis in primary cultures of mouse cerebellar granule cells appears to involve neuron-astrocyte communication with NO operating as the intercellular messenger. Malcolm C, et al. **J Neurosci Res** 1996 Jul 15;45(2):129–42

Brain synaptosomes display a diadenosine tetraphosphate (Ap4A)-mediated Ca2+ influx distinct from ATP-mediated influx. Pivorun EB, et al. **J Neurosci Res** 1996 Jun 1;44(5):478–89

TGF-beta1 prevents gp120-induced impairment of Ca2+ homeostasis and rescues cortical neurons from apoptotic death. Scorziello A, et al. **J Neurosci Res** 1997 Sep 1; 49(5):600–7

Impaired synaptic functions with aging as characterized by decreased calcium influx and acetylcholine release. Tanaka Y, et al. **J Neurosci Res** 1996 Jan 1;43(1):63–76

Selected P2 purinoceptor modulators prevent glutamate-evoked cytotoxicity in cultured cerebellar granule neurons. Volonté C, et al. **J Neurosci Res** 1996 Jul 15;45(2):183–93

Amyloid-beta proteins activate Ca(2+)-permeable channels through calcium-sensing receptors. Ye C, et al. **J Neurosci Res** 1997 Mar 1;47(5):547–54

Interactive effects of pH and temperature on N-methyl-D-aspartate receptor activity in rat cortical brain slices. Gray AT, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):180–7

Acute alterations in [Ca2+]i in NG108-15 cells subjected to high strain rate deformation and chemical hypoxia: an in vitro model for neural trauma. Cargill RS 2nd, et al. **J Neurotrauma** 1996 Jul;13(7):395–407

Anoxic injury in the rat spinal cord: pharmacological evidence for multiple steps in Ca(2+)-dependent injury of the dorsal columns. Imaizumi T, et al. **J Neurotrauma** 1997 May;14(5):299–311

An in vitro model of traumatic neuronal injury: loading rate-dependent changes in acute cytosolic calcium and lactate dehydrogenase release. Laplaca MC, et al. **J Neurotrauma** 1997 Jun;14(6):355–68

Mitochondrial dysfunction and calcium perturbation induced by traumatic brain injury. Xiong Y, et al. **J Neurotrauma** 1997 Jan;14(1):23–34

An oligopeptide of the feline leukemia virus envelope glycoprotein is associated with morphological changes and calcium dysregulation in neuronal growth cones. Fails AD, et al. **J Neurovirol** 1997 Jun;3(3):179–91

Sodium excretion influences calcium homeostasis in elderly men and women. Dawson-Hughes B, et al. **J Nutr** 1996 Sep;126(9):2107–12

Acute and long-term effects of gastrin on muscle and bone calcium uptake in rats. Krishnamra N, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):687–97

In vivo absorption of calcium carbonate and magnesium oxide from the large intestine in rats. Ohta A, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):35–46

Effects of whey protein on calcium and bone metabolism in ovariectomized rats. Takada Y, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr;43(2):199–210

Endothelin-1 mediated Ca2+ influx does not occur through L-type voltage-dependent Ca2+ channels in cultured bovine trabecular meshwork cells. Kageyama M, et al. **J Ocul Pharmacol Ther** 1996 Winter;12(4):433–40

Inhibition of high K+ and norepinephrine-induced free intracellular calcium by tetrandrine in dissociated rabbit retina cells. Xuan B, et al. **J Ocul Pharmacol Ther** 1996 Summer;12(2):151–8

Calcium-mobilizing purine receptors on the surface of mammalian articular chondrocytes. Koolpe M, et al. **J Orthop Res** 1997 Mar;15(2):204–12

The correlation of serum ferritin level to Ca-P metabolism and bone density study in thalassemic patients. Chao T, et al. **J Pediatr Endocrinol Metab** 1996 Nov-Dec; 9(6):609–11

Effect of small variations of aluminum intake on calcium metabolism in young rats. Boudey M, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):124–7

Modification of Ca2+ metabolism in the rabbit aorta as a mechanism of spasmolytic action of warifteine, a bisbenzylisoquinoline alkaloid isolated from the leaves of Cissampelos sympodialis Eichl. (Menispermaceae). De Freitas MR, et al. **J Pharm Pharmacol** 1996 Mar;48(3):332–6

Restoration of ischemic contractile failure of indo-1-loaded guinea pig heart by a calcium sensitizer, MCI-154. Abe Y, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):47–55

Rhythm anomalies related to delayed repolarization in vivo: influence of sarcolemmal Ca++ entry and intracellular Ca++ overload. Carlsson L, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):231–9

Differences in platelet-activating factor receptor mediated Ca++ response between hamster and guinea pig alveolar macrophages. Chen J, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1047–58

Activation of the recombinant human alpha 7 nicotinic acetylcholine receptor significantly raises intracellular free calcium. Delbono O, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):428–38

Mechanism of action of leukotriene D4 on guinea pig tracheal smooth muscle cells: roles of Ca++ influx and intracellular Ca++ release. Dumitriu D, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1357–65

FP prostaglandin receptors mediating inositol phosphates generation and calcium mobilization in Swiss 3T3 cells: a pharmacological study. Griffin BW, et al. **J Pharmacol Exp Ther** 1997 May;281(2):845–54

Ca++ sensitizers impair cardiac relaxation in failing human myocardium. Hajjar RJ, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):247–54

Possible mechanism of palytoxin-induced Ca++ mobilization in porcine coronary artery. Ishii K, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1077–84

Adenosine 3',5'-cyclic monophosphate-stimulated Ca++ efflux and acetylcholine release in ileal myenteric plexus are mediated by N-type Ca++ channels: inhibition by the kappa opioid receptor agonist. Kojima Y, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):403–9

Regulation of [Ca++]i in human neuroblastoma (SH-SY5Y) cells expressing recombinant rat angiotensin1A receptors by angiotensin II and carbachol. McDonald RL, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1257–63

Inhibition by protamine of catecholamine secretion and ion influxes in bovine adrenal medullary cells in culture. Minami K, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):838–43

Superficial sarcoplasmic reticulum calcium buffering of resting, voltage-dependent Ca++ influx in rat femoral arterial smooth muscle. Nomura Y, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):830–7

Nitrous oxide enhances Na+/Ca++ exchange in the neuroblastoma cell line SK-N-SH. Resendes MC, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):795–801

Activation of alpha-2 adrenergic receptors inhibits norepinephrine release by a pertussis toxin-insensitive pathway independent of changes in cytosolic calcium in cultured rat sympathetic neurons. Schwartz DD. **J Pharmacol Exp Ther** 1997 Jul;282(1):248–55

Vascular expression of inducible nitric oxide synthase is associated with activation of Ca(++)-dependent K+ channels. Taguchi H, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1514–9

Effects of omega-agatoxin-IVA and omega-conotoxin-MVIIC on perineurial Ca++ and Ca(++)-activated K+ currents of mouse motor nerve terminals. Xu YF, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1229–36

Positive inotropic effect of angiotensin II. Increases in intracellular Ca2+ or changes in myofilament Ca2+ responsiveness? Mattiazzi A. **J Pharmacol Toxicol Methods** 1997 Jun;37(4):205–14 (80 ref.)

Changes in calcium transport in mammalian sperm mitochondria and plasma membrane irradiated at 633 nm (HeNe laser). Breitbart H, et al. **J Photochem Photobiol B** 1996 Jul;34(2–3):117–21

A quantitative estimate of the maximum amount of light-induced Ca2+ release in Drosophila photoreceptors. Hardie RC. **J Photochem Photobiol B** 1996 Aug; 35(1–2):83–9

Dawn, diacylglycerol, calcium, and protein kinase C—the retinal wrecking crew. A signal transduction cascade for rhabdom shedding in the Limulus eye. Jinks RN, et al. **J Photochem Photobiol B** 1996 Aug;35(1–2):45–52

Limulus ventral photoreceptors contain two functionally dissimilar inositol triphosphate-induced calcium release mechanisms. Levy S, et al. **J Photochem Photobiol B** 1996 Aug;35(1–2):97–103

Latencies of calcium elevation and depolarization in Limulus ventral photoreceptors injected with GDP-beta S. Payne R, et al. **J Photochem Photobiol B** 1996 Aug;35(1–2):91–5

Intracellular Ca2+ changes and Ca2+-activated K+ channel activation induced by acetylcholine at the endplate of mouse skeletal muscle fibres. Allard B, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):337–49

The role of ATP in the regulation of intracellular Ca2+ release in single fibres of mouse skeletal muscle. Allen DG, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):587–600

Extracellular free potassium and calcium during synchronous activity induced by 4-aminopyridine in the juvenile rat hippocampus. Avoli M, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):707–17

Changes in IP3 and cytosolic Ca2+ in response to sugars and non-sugar sweeteners in transduction of sweet taste in the rat. Bernhardt SJ, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):325–36

Effects of repetitive tetanic stimulation at long intervals on excitation-contraction coupling in frog skeletal muscle. Bruton JD, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):15–22

Lack of regulation by intracellular Ca2+ of the hyperpolarization-activated cation current in rat thalamic neurones. Budde T, et al. **J Physiol (Lond)** 1997 Aug 15; 503 (Pt 1):79–85

Axonal calcium entry during fast 'sodium' action potentials in rat cerebellar Purkinje neurones. Callewaert G, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):641–7

Decay of calcium transients after electrical stimulation in rat fast- and slow-twitch skeletal muscle fibres. Carroll SL, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):573–88

Effects of reduced muscle glycogen concentration on force, Ca2+ release and contractile protein function in intact mouse skeletal muscle. Chin ER, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):17–29

Single L-type calcium channel conductance with physiological levels of calcium in chick ciliary ganglion neurons. Church PJ, et al. **J Physiol (Lond)** 1996 Oct 1; 496 (Pt 1):59–68

Intracellular pH and calcium in frog early distal tubule: effects of transport inhibitors. Cooper GJ, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):49–59

Muscarinic and nicotinic receptors raise intracellular Ca2+ levels in rat carotid body type I cells. Dasso LL, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):327–38

Sources of Ca2+ for different Ca(2+)-activated K+ conductances in neurones of the rat superior cervical ganglion. Davies PJ, et al. **J Physiol (Lond)** 1996 Sep 1; 495 (Pt 2):353–66

Measurement of sarcoplasmic reticulum Ca2+ content and sarcolemmal Ca2+ fluxes in isolated rat ventricular myocytes during spontaneous Ca2+ release. Díaz ME, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):3–16

A sideways look at sparks, quarks, puffs and blips. Eisner DA, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):2

High endogenous calcium buffering in Purkinje cells from rat cerebellar slices. Fierro L, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):617–25

Voltage-dependent calcium currents and cytosolic calcium in equine airway myocytes. Fleischmann BK, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):347–58

Total and sarcoplasmic reticulum calcium contents of skinned fibres from rat skeletal muscle. Fryer MW, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):357–70

Possible role of atypical protein kinase C activated by arachidonic acid in Ca2+ sensitization of rabbit smooth muscle. Gailly P, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):95–109

Dissociation of subsarcolemmal from global cytosolic [Ca2+] in myocytes from guinea-pig coronary artery. Ganitkevich VY, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):305–18

Release and sequestration of calcium by ryanodine-sensitive stores in rat hippocampal neurones. Garaschuk O, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):13–30

Ca2+ diffusion and sarcoplasmic reticulum transport both contribute to [Ca2+]i decline during Ca2+ sparks in rat ventricular myocytes. Gómez AM, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):575–81

Co-ordinated modulation of Ca2+ and K+ currents during ascidian muscle development. Greaves AA, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):39–52

Dual effects of tetracaine on spontaneous calcium release in rat ventricular myocytes. Györke S, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):297–309

Characterization of apamin-sensitive Ca(2+)-activated potassium channels in human leukaemic T lymphocytes. Hanselmann C, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):627–37

Release of Ca2+ is the crucial step for the potentiation of IPSCs in the cultured cerebellar Purkinje cells of the rat. Hashimoto T, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):611–27

Rapid exocytosis and endocytosis in nerve terminals of the rat posterior pituitary. Hsu SF, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):539–53

Voltage-dependent blockage of Ca(2+)-permeable AMPA

receptors by joro spider toxin in cultured rat hippocampal neurones. Iino M, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):431–7

Hypotonic stimulation induced Ca2+ release from IP3-sensitive internal stores in a green monkey kidney cell line. Ishii T, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):371–84

Histamine induces oscillations of mitochondrial free Ca2+ concentration in single cultured rat brain astrocytes. Jou MJ, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):299–308

Depolarization–evoked increases in cytosolic calcium concentration in isolated smooth muscle cells of rat portal vein. Kamishima T, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):61–74

Regulation of the cytosolic Ca2+ concentration by Ca2+ stores in single smooth muscle cells from rat cerebral arteries. Kamishima T, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):497–508

Quisqualate–preferring metabotropic glutamate receptor activates Na(+)–Ca2+ exchange in rat basolateral amygdala neurones. Keele NB, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):87–104

Ca2+ influx and activation of a cation current are coupled to intracellular Ca2+ release in peptidergic neurons of Aplysia californica. Knox RJ, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):627–39

Anion secretion induced by capacitative Ca2+ entry through apical and basolateral membranes of cultured equine sweat gland epithelium. Ko WH, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):19–29

Carbachol–induced [Ca2+]i oscillations in single smooth muscle cells of guinea–pig ileum. Kohda M, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):315–28

Purinergic stimulation of rabbit ciliated airway epithelia: control by multiple calcium sources. Korngreen A, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):53–66

Growth hormone–releasing hormone triggers pacemaker activity and persistent Ca2+ oscillations in rat somatotrophs. Kwiecien R, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):613–23

Repriming and activation alter the frequency of stereotyped discrete Ca2+ release events in frog skeletal muscle. Lacampagne A, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):581–8

Dopamine (D2) receptor regulation of intracellular calcium and membrane capacitance changes in rat melanotrophs. Lee AK. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):627–40

Effect on the indo–1 transient of applying Ca2+ channel blocker for a single beat in voltage–clamped guinea–pig cardiac myocytes. Levi AJ, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):653–73

Effect on the fura–2 transient of rapidly blocking the Ca2+ channel in electrically stimulated rabbit heart cells. Levi AJ, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):19–37

The relationship between mitochondrial state, ATP hydrolysis, [Mg2+]i and [Ca2+]i studied in isolated rat cardiomyocytes. Leyssens A, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):111–28

Ca2+ release from internal stores: role in generating depolarizing after–potentials in rat supraoptic neurones. Li Z, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):339–50

Vesicle–associated proteins and calcium in nerve terminals of chick ciliary ganglia during development of facilitation. Lin YQ, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):639–56

Subcellular properties of triggered Ca2+ waves in isolated citrate–loaded guinea–pig atrial myocytes characterized by ratiometric confocal microscopy. Lipp P, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):599–610

Spatially non–uniform Ca2+ signals induced by the reduction of transverse tubules in citrate–loaded guinea–pig ventricular myocytes in culture. Lipp P, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):589–97

Submicroscopic calcium signals as fundamental events of excitation–contraction coupling in guinea–pig cardiac myocytes. Lipp P, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):31–8

Control of action potential propagation by intracellular Ca2+ in cultured rat dorsal root ganglion cells. Lüscher C, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):319–24

The temporal profile of calcium transients in voltage clamped gastric myocytes from Bufo marinus. McGeown JG, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):321–36

Delayed autoregulation of the Ca2+ signals resulting from capacitative Ca2+ entry in bovine pulmonary artery endothelial cells. Madge L, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):351–69

Role of cytoplasmic calcium concentration in the bleaching adaptation of salamander cone photoreceptors. Matthews HR, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):293–303

Block of large conductance Ca(2+)–activated K+ channels in rabbit vascular myocytes by internal Mg2+ and Na+. Morales E, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):701–16

The effects of repeated active stretches on tension generation and myoplasmic calcium in frog single muscle fibres. Morgan DL, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):665–74

The relationship between tension and slowly varying intracellular calcium concentration in intact frog skeletal muscle. Morgan DL, et al. **J Physiol (Lond)** 1997 Apr 1; 500 (Pt 1):177–92

Calcium release from intracellular stores evoked by extracellular ATP in a Xenopus renal epithelial cell line. Mori M, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):365–73

NO decreases evoked quantal ACh release at a synapse of Aplysia by a mechanism independent of Ca2+ influx and protein kinase G. Mothet JP, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):769–84

Effect of pentachlorophenol on calcium accumulation in barnacle muscle cells. Nwoga JC, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):13–20

Effect of low [ATP] on depolarization–induced Ca2+ release in skeletal muscle fibres of the toad. Owen VJ, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):309–15

Relationship between depolarization–induced force responses and Ca2+ content in skeletal muscle fibres of rat and toad. Owen VJ, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):571–86

Ca2+ clearance mechanisms in isolated rat adrenal chromaffin cells. Park YB, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):329–46

Ca2+ sparks involving multiple Ca2+ release sites along Z–lines in rat heart cells. Parker I, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):31–8

Effect of arachidonic acid on the L–type calcium current in frog cardiac myocytes. Petit–Jacques J, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):67–81

'Quantal' calcium release operated by membrane voltage in frog skeletal muscle. Pizarro G, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):289–303

Effects of reducing agents and oxidants on excitation–contraction coupling in skeletal muscle fibres of rat and toad. Posterino GS, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):809–25

Simultaneous measurement of intracellular Ca2+ and asynchronous transmitter release from the same crayfish bouton. Ravin R, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):251–62

The effects of calcium buffering and cyclic AMP on mechano–electrical transduction in turtle auditory hair cells. Ricci AJ, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):111–24

Burst–generating neurones in the dorsal horn in an in vitro preparation of the turtle spinal cord. Russo RE, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):55–66

Calcium sparks and excitation–contraction coupling in phospholamban–deficient mouse ventricular myocytes. Santana LF, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):21–9

Ca2+ mobilization and interlayer signal transfer in the heterocellular bilayered epithelium of the rabbit ciliary body. Schütte M, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):25–37

Functional evidence for calcium–induced calcium release in isolated rat vibrissal Merkel cell mechanoreceptors. Senok SS, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):29–37

Ca2+ release–induced inactivation of Ca2+ current in rat ventricular myocytes: evidence for local Ca2+ signalling. Sham JS. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):285–95

Spatiotemporal analysis of calcium dynamics in the nucleus of hamster oocytes. Shirakawa H, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):29–40

Activation of Ca2+ release by caffeine and voltage in frog skeletal muscle. Shirokova N, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):317–39

Caffeine enhances intramembranous charge movement in frog skeletal muscle by increasing cytoplasmic Ca2+ concentration. Shirokova N, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):341–56

Small event Ca2+ release: a probable precursor of Ca2+ sparks in frog skeletal muscle. Shirokova N, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):3–11

Ryanodine–sensitive calcium stores involved in neurotransmitter release from sympathetic nerve terminals of the guinea–pig. Smith AB, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):657–64

Thrombin–dependent calcium signalling in single human erythroleukaemia cells. Somasundaram B, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):485–95

Effect of metabolic inhibition on intracellular Ca2+, phosphorylation of myosin regulatory light chain and force in rat smooth muscle. Taggart MJ, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):485–96

Effects of lactate on the relative contribution of Ca2+ extrusion mechanisms to relaxation in guinea–pig ventricular myocytes. Terracciano CM, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):557–70

Intracellular inositol 1,3,4,5–tetrakisphosphate enhances the calcium current in hippocampal CA1 neurones of the gerbil after ischaemia. Tsubokawa H, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):67–78

Monitoring calcium in turtle hair cells with a calcium–activated potassium channel. Tucker TR, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):613–26

Contrasting effects of hypoxia on cytosolic Ca2+ spikes in conduit and resistance myocytes of the rabbit pulmonary artery. Ureña J, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):103–9

Endogenously produced prostanoids stimulate calcium reabsorption in the rabbit cortical collecting system. van Baal J, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):229–39

Mechanisms for stimulation of rat anterior pituitary cells by arginine and other amino acids. Villalobos C, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):421–31

Calcium permeability increase of endplate channels in rat muscle during postnatal development. Villarroel A, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):331–8

Mitochondria accumulate Ca2+ following intense glutamate stimulation of cultured rat forebrain neurones. White RJ, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):31–47

The immunophilin FK506–binding protein modulates Ca2+ release channel closure in rat heart. Xiao RP, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):343–54

Intracellular alkalinization mobilizes calcium from agonist–sensitive pools in rat lacrimal acinar cells. Yodozawa S, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):601–11

Fractional Ca2+ currents through capsaicin– and proton–activated ion channels in rat dorsal root ganglion neurones. Zeilhofer HU, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):67–78

Serotonin–induced intercellular calcium waves in salivary glands of the blowfly Calliphora erythrocephala. Zimmermann B, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):17–28

Different threshold levels of postsynaptic [Ca2+]i have to be reached to induce LTP and LTD in neocortical pyramidal cells. Hansel C, et al. **J Physiol Paris** 1996; 90(5–6):317–9

The source of contracticle calcium in guinea–pig cardiac myocytes treated with thapsigargin. Janiak R, et al. **J Physiol Pharmacol** 1996 Sep;47(3):411–23

Effect of sarcoplasmic reticulum Ca release into diadic region on Na/Ca exchange in cardiac myocytes. Lewartowski B, et al. **J Physiol Pharmacol** 1996 Dec;47(4):577–90

Intracellular calcium release mediated by noradrenaline and acetylcholine in mammalian pineal cells. Marín A, et al. **J Pineal Res** 1996 Aug;21(1):15–28

Does melatonin affect calcium influx in human aortic smooth muscle cells and estradiol–mediated calcium antagonism? Mück AO, et al. **J Pineal Res** 1996 Apr;20(3):145–7

Melatonin suppresses vasospastic effect of hydrogen peroxide in human umbilical artery: relation to calcium influx. Okatani Y, et al. **J Pineal Res** 1997 May;22(4):232–7

The L–type Ca2+ channel is involved in microvesicle–mediated glutamate exocytosis from rat pinealocytes. Yamada H, et al. **J Pineal Res** 1996 Oct; 21(3):165–74

Probing calcium ion–induced conformational changes of Taiwan cobra phospholipase A2 by trinitrophenylation of lysine residues. Chang LS, et al. **J Protein Chem** 1997 Jan; 16(1):51–7

Inhibition of high voltage–activated Ca2+ currents from cultured sensory neurones by a novel insect peptide. Harding L, et al. **J Recept Signal Transduct Res** 1995 Jan–Mar;15(1–4):355–64

Cyclosporin A potentiates receptor–activated [Ca2+]c increase. Lo Russo A, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):149–61

Identification of neuronal calcium sensor (NCS–1) possibly involved in the regulation of receptor phosphorylation. Nef S, et al. **J Recept Signal Transduct Res** 1995 Jan–Mar; 15(1–4):365–78

Studies on capacitative calcium entry in vascular smooth muscle cells by measuring 45CA2+ influx. Skutella M, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):163–75

Effect of ATP and platelet–activating factor on intracellular calcium concentrations of cultured oviductal cells from cows. Tiemann U, et al. **J Reprod Fertil** 1996 Sep;108(1):1–9

Study of calcium homeostasis in feline hyperthyroidism. Barber PJ, et al. **J Small Anim Pract** 1996 Dec; 37(12):575–82

Intracellular Ca2+ oscillations in vascular smooth muscle cells. Kang TM, et al. **J Smooth Muscle Res** 1995 Dec; 31(6):390–4

Effects of various stimulants on intracellular free calcium concentration of longitudinal muscle cells isolated from pregnant rat myometrium. Tsukamoto T, et al. **J Smooth Muscle Res** 1995 Dec;31(6):519–21

Membrane binding sites and non–genomic effects of estrogen in cultured human pre–osteoclastic cells. Fiorelli G, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):233–40

RU 38486 inhibits intracellular calcium mobilization and PGI2 release from human myometrium: mechanisms of action. Lobaccaro–Henri C, et al. **J Steroid Biochem Mol Biol** 1996 Sep;59(1):63–73

Restricted redox oscillation in oxidative phosphorylation in jaundiced rat liver mitochondria and its relation to calcium ion. Chang YJ, et al. **J Surg Res** 1996 Dec;66(2):91–9

Altered ionic calcium and cell motion in ventricular myocytes after cutaneous thermal injury. Koshy US, et al. **J Surg Res** 1997 Mar;68(2):133–8

Calcium release from intracellular stores and excitation–contraction coupling in intestinal smooth muscle. Oh ST, et al. **J Surg Res** 1997 Jul 15;71(1):79–86

Transmembrane calcium flux regulates LDL oxidation by arterial smooth muscle cells. Wells KE, et al. **J Surg Res** 1997 Feb 1;67(2):126–31

Stochastic events underlie Ca2+ signalling in neutrophils. Hallett MB, et al. **J Theor Biol** 1997 May 7;186(1):1–6

Signal–induced Ca2+ oscillations through the regulation of

the inositol 1,4,5-trisphosphate-gated Ca2+ channel: an allosteric model. Laurent M, et al. **J Theor Biol** 1997 Jun 7;186(3):307–26

Fluctuation of zinc, copper, magnesium and calcium concentrations in guinea pig tissues after administration of captopril (SQ 14225). Kotsaki-Kovatsi VP, et al. **J Trace Elem Med Biol** 1997 Apr;11(1):32–6

Calcium-release-activated calcium influx in endothelium. Davis MJ, et al. **J Vasc Res** 1997 May–Jun;34(3):186–95

Calcium signalling and autacoid production in endothelial cells are modulated by changes in tyrosine kinase and phosphatase activity. Fleming I, et al. **J Vasc Res** 1996 May–Jun;33(3):225–34

Pulsatile and steady flow–induced calcium oscillations in single cultured endothelial cells. Helmlinger G, et al. **J Vasc Res** 1996 Sep–Oct;33(5):360–9

Potentiation of acetylcholine–induced responses in freshly isolated rabbit aortic endothelial cells. Wang X, et al. **J Vasc Res** 1996 Sep–Oct;33(5):414–24

Multiple mechanisms of activating Ca2+ entry in freshly isolated rabbit aortic endothelial cells. Wang X, et al. **J Vasc Res** 1997 May–Jun;34(3):196–207

Bone histomorphometric changes due to differences in calcium intake under metabolic acidosis in rats. Won JH, et al. **J Vet Med Sci** 1996 Jul;58(7):611–6

Poliovirus protein 2BC increases cytosolic free calcium concentrations. Aldabe R, et al. **J Virol** 1997 Aug; 71(8):6214–7

The Epstein–Barr virus–induced Ca2+/calmodulin–dependent kinase type IV/Gr promotes a Ca(2+)–dependent switch from latency to viral replication. Chatila T, et al. **J Virol** 1997 Sep;71(9):6560–7

Two proline residues are essential in the calcium–binding activity of rotavirus VP7 outer capsid protein. Gajardo R, et al. **J Virol** 1997 Mar;71(3):2211–6

Effect of stepwise normalization of perfusate pH on post–ischemic functional recovery and Ca2+ overload in isolated rat hearts. Ebihara Y, et al. **Jpn Circ J** 1996 Sep; 60(9):683–90

Dipyridamole suppresses catecholamine– and Ca++ influx–sensitive ventricular arrhythmias. Kobayashi Y, et al. **Jpn Circ J** 1996 Sep;60(9):629–40

Ca2+/calmodulin effects on cAMP response in cultured chick ciliary epithelial cells. Mishima HK, et al. **Jpn J Ophthalmol** 1995;39(4):317–22

Cooperation of ATP and norepinephrine in inducing contraction in guinea pig vas deferens is not associated with change in intracellular Ca2+ level. Fujita A, et al. **Jpn J Pharmacol** 1996 Mar;70(3):273–6

Furosemide–sensitive calcium rise induced by GABAA–receptor stimulation in cultures of embryonic rat striatal neurons. Ikeda Y, et al. **Jpn J Pharmacol** 1997 Jun; 74(2):165–9

Inositol 1,4,5-trisphosphate–induced Ca(2+)–transient and outward K+ current in single smooth muscle cells of guinea pig small intestine. Ito S, et al. **Jpn J Pharmacol** 1996 May;71(1):1–10

Increased inhibitory effect of phorbol ester on cytosolic Ca2+ level and contraction in rat myometrium after gestation. Kim BK, et al. **Jpn J Pharmacol** 1996 Oct; 72(2):111–8

Prostanoid receptor–mediated calcium signaling in cultured rat astrocytes. Kitanaka J, et al. **Jpn J Pharmacol** 1996 May; 71(1):85–7

Antagonistic effect of YM022, an antiulcer agent in rats, on human cholecystokinin (CCK)B/gastrin receptor. Koizumi T, et al. **Jpn J Pharmacol** 1996 Aug;71(4):307–13

Suramin inhibits glucose–induced Ca2+ response in single rat pancreatic beta cells. Kuromi H, et al. **Jpn J Pharmacol** 1997 Feb;73(2):179–82

Novel blockade of Ca2+ current by quinacrine in smooth muscle cells of the guinea pig. Nagano N, et al. **Jpn J Pharmacol** 1996 May;71(1):51–60

Flow cytometric analysis of the H2O2–induced increase in intracellular Ca2+ concentration of rat thymocytes. Okazaki E, et al. **Jpn J Pharmacol** 1996 Aug;71(4):273–80

Oxidative stress–induced increase in intracellular Ca2+ and Ca(2+)–induced increase in oxidative stress: an experimental model using dissociated rat brain neurons. Oyama Y, et al. **Jpn J Pharmacol** 1996 Dec;72(4):381–5

Effects of a prostaglandin I2 analog iloprost on cytoplasmic Ca2+ levels and muscle contraction in isolated guinea pig aorta. Ozaki H, et al. **Jpn J Pharmacol** 1996 Jul;71(3):231–7

Humoral factors of ascites sarcoma 180 stimulate osteoblastic UMR 106–01 cell proliferation and bone resorption via signal transduction pathways, which are clearly different from those of parathyroid hormone. Suzuki K, et al. **Jpn J Pharmacol** 1996 Oct;72(2):149–59

Effect of phorbol esters on cytosolic Ca2+ level, myosin phosphorylation and muscle tension in high K(+)–stimulated bovine tracheal smooth muscle. Tajimi M, et al. **Jpn J Pharmacol** 1997 Jun;74(2):195–201

Restricted propagation of cytoplasmic Ca2+ oscillation into the nucleus in guinea pig cardiac myocytes as revealed by rapid scanning confocal microscopy and indo–1. Tanaka H, et al. **Jpn J Pharmacol** 1996 Mar;70(3):235–42

Intracellular calcium oscillation in cultured rat hippocampal neurons: a model for glutamatergic neurotransmission. Tanaka T, et al. **Jpn J Pharmacol** 1996 Jan;70(1):89–93

Potentiation by indomethacin of receptor–mediated catecholamine secretion in rat adrenal medulla. Warashina A. **Jpn J Pharmacol** 1997 Mar;73(3):197–205

High–lipid diet intake is a possible predisposing factor in the development of hypogonadal osteoporosis. Chanda S, et al. **Jpn J Physiol** 1996 Oct;46(5):383–8

ATP, thapsigargin and cAMP increase Ca2+ in rat hepatocytes by activating three different Ca2+ influx pathways. Ikari A, et al. **Jpn J Physiol** 1997 Apr; 47(2):235–9

Glucose stimulation of insulin release without an increase in cytosolic free Ca2+ concentration: a possible involvement of GTP. Komatsu M, et al. **Jpn J Physiol** 1997;47 Suppl 1:S22–4

Changes in intracellular Ca2+ concentration produced by the alteration of intracellular pH in rat parotid acinar cells. Nishiguchi H, et al. **Jpn J Physiol** 1997 Feb;47(1):41–9 (32 ref.)

Adrenergic and purinergic receptors–mediated calcium responses in brown adipocytes. Omatsu–Kanbe M, et al. **Jpn J Physiol** 1997;47 Suppl 1:S47–8

Contribution of mitochondria to the removal of intracellular Ca2+ induced by caffeine and rapid cooling at low temperatures in ferret ventricular muscles. Tanaka E, et al. **Jpn J Physiol** 1997 Jun;47(3):251–62

Ca2+ release induced by rapid cooling and caffeine in ferret ventricular muscles. Tanaka E. **Jpn J Physiol** 1997 Jun; 47(3):263–72

Contribution of Na+/Ca2+ exchanger in maintaining [Ca2+]c at a stable state in rat pancreatic islets. Yoshihashi K, et al. **Jpn J Physiol** 1996 Dec;46(6):473–80

Changes in lysyl oxidase activity and calcium content during the healing of tooth extraction wounds. Chen CJ, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jul; 13(7):432–9

Ca2+ and Mg2+ sensor in the thick ascending limb of the loop of Henle. Di Stefano A, et al. **Kidney Blood Press Res** 1997;20(3):190–3 (23 ref.)

Regulation of the intracellular calcium concentration in epithelial cells. Leipziger J, et al. **Kidney Blood Press Res** 1996;19(3–4):148–50 (21 ref.)

Correlation between intracellular activities of Ca2+ and Na+ in rat cortical collecting duct—A possible coupling mechanism between Na+–K+–ATPase and Basolateral K+ conductance. Schlatter E, et al. **Kidney Blood Press Res** 1996;19(1):24–31

Arginine vasopressin and oxytocin increase intracellular calcium and cAMP in human glomerular epithelial cells in culture. Späth M, et al. **Kidney Blood Press Res** 1996; 19(2):81–6

Nifedipine reverses the abnormalities in [Ca2+]i and proliferation of B cells from dialysis patients. Alexiewicz JM, et al. **Kidney Int** 1996 Oct;50(4):1249–54

Magnesium carbonate as a phosphorus binder: a prospective, controlled, crossover study. Delmez JA, et al. **Kidney Int** 1996 Jan;49(1):163–7

Pathways through which glucose induces a rise in [Ca2+]i of polymorphonuclear leukocytes of rats. Demerdash TM, et al. **Kidney Int** 1996 Dec;50(6):2032–40

Estrogen effects on the renal handling of calcium in the ovariectomized perfused rat. Dick IM, et al. **Kidney Int** 1997 Jun;51(6):1719–28

Characterization of sodium–calcium exchange in rabbit renal arterioles. Fowler BC, et al. **Kidney Int** 1996 Dec; 50(6):1856–62

Alteration of cytosolic calcium induced by angiotensin II and norepinephrine in mesangial cells from diabetic rats. Hadad SJ, et al. **Kidney Int** 1997 Jan;51(1):87–93

Extracellular calcium–sensing receptor: implications for calcium and magnesium handling in the kidney. Hebert SC. **Kidney Int** 1996 Dec;50(6):2129–39 (97 ref.)

Angiotensin II increases the cytosolic calcium activity in rat podocytes in culture. Henger A, et al. **Kidney Int** 1997 Sep;52(3):687–93

Elevation of [Ca2+]i of renal proximal tubular cells and down–regulation of mRNA of PTH–PTHrP, V1a and AT1 receptors in kidney of diabetic rats. Marcinkowski W, et al. **Kidney Int** 1997 Jun;51(6):1950–5

Hydrogen peroxide increases the intracellular calcium activity in rat mesangial cells in primary culture. Meyer TN, et al. **Kidney Int** 1996 Feb;49(2):388–95

Altered sodium–calcium exchange in afferent arterioles of the spontaneously hypertensive rat. Nelson LD, et al. **Kidney Int** 1996 Dec;50(6):1889–96

The set point of calcium and the reduction of parathyroid hormone in hemodialysis patients. Pahl M, et al. **Kidney Int** 1996 Jan;49(1):226–31

Regulation of tyrosine hydroxylase gene expression during hypoxia: role of Ca2+ and PKC. Raymond R, et al. **Kidney Int** 1997 Feb;51(2):536–41

Endocrine disturbances of calcium metabolism in uremia: renal causes and systemic consequences. Ritz E, et al. **Kidney Int** 1996 Jun;49(6):1765–8 (39 ref.)

Intracellular calcium handling by fibroblasts from non–insulin dependent diabetic patients with and without hypertension and microalbuminuria. Solini A, et al. **Kidney Int** 1996 Aug; 50(2):618–26

Defective renal calcium reabsorption in genetic hypercalciuric rats. Tsuruoka S, et al. **Kidney Int** 1997 May; 51(5):1540–7

Elevation of cytosolic calcium of rat cardiac myocytes in phosphate depletion. Zhang YB, et al. **Kidney Int** 1996 Jan; 49(1):251–4

Renal abnormality of calcium handling in spontaneously hypertensive rats. Kamijo T, et al. **Kidney Int Suppl** 1996 Jun;55:S166–8

Role of VEGF receptor–1 (Flt–1) in mediating calcium–dependent nitric oxide release and limiting DNA synthesis in human trophoblast cells. Ahmed A, et al. **Lab Invest** 1997 Jun;76(6):779–91

Smooth muscle energetic in the pig coronary artery during a calcium–dependent and a calcium–independent isometric contraction. Beny JL, et al. **Life Sci** 1997;60(3):181–7

Effect of lithium on superoxide production and intracellular free calcium mobilization in elastin peptide (kappa–elastin) and FMLP stimulated human PMNS. Effect of age. Fülöp T Jr, et al. **Life Sci** 1997;60(22):PL 325–32

Small changes in extracellular sodium influence myogenic tone in rabbit facial vein by changing its sensitivity to calcium. Henrion D, et al. **Life Sci** 1997;60(10):743–9

Potentiation of histamine–induced catecholamine secretion by ouabain in cultured bovine adrenal chromaffin cells is dependent on calcium and sodium influx. Houchi H, et al. **Life Sci** 1997;60(23):2051–8

Endothelium inhibits the palytoxin–induced depolarization and Ca2+ mobilization in porcine coronary artery through endothelium–derived hyperpolarizing factor and nitric oxide released by palytoxin. Ishii K, et al. **Life Sci** 1997; 60(7):PL91–7

Maltitol increases transepithelial diffusional transfer of calcium in rat ileum. Kishi K, et al. **Life Sci** 1996; 59(14):1133–40

Calcium dynamics in cultured heart cells exposed to defibrillator–type electric shocks. Krauthamer V, et al. **Life Sci** 1997;60(22):1977–85

Effect of molsidomine on basal Ca2+ current in rat cardiac cells. Matsumoto S. **Life Sci** 1997;60(6):383–90

Proadrenomedullin N–terminal 20 peptide (PAMP) reduces inward currents and Ca2+ rises induced by nicotine in bovine adrenal medullary cells. Nagatomo T, et al. **Life Sci** 1996;59(20):1723–30

Lysophosphatidic acid sensitizes mechanical stress–induced Ca2+ response via activation of phospholipase C and tyrosine kinase in cultured smooth muscle cells. Ohata H, et al. **Life Sci** 1997;60(15):1287–95

Ca2+/phospholipid–binding and syntaxin–binding of native synaptotagmin I. Popoli M, et al. **Life Sci** 1997;61(7):711–21

Lithium attenuates the effects of dynorphin A(1–13) on inositol 1,4,5–trisphosphate and intracellular Ca2+ in rat ventricular myocytes. Sheng JZ, et al. **Life Sci** 1996; 59(25–26):2181–6

Alpha 1– and beta–adrenergic and muscarinic–cholinergic regulation in the spontaneous beating and Ca2+ oscillations in cultured neonatal rat cardiac myocytes. Takemura H, et al. **Life Sci** 1996;59(14):PL221–6

Chronic treatment with antidepressants, verapamil, or lithium inhibits the serotonin–induced intracellular calcium response in individual C6 rat glioma cells. Yamaji T, et al. **Life Sci** 1997;60(11):817–23

Enhancement by ganglioside GT1b of annexin I phosphorylation in bovine mammary gland in the presence of phosphatidylserine and Ca2+. Katoh N, et al. **Lipids** 1996 Sep;31(9):983–7

Abnormalities in CD69 expression, cytosolic pH and Ca2+ during activation of lymphocytes from patients with systemic lupus erythematosus. Portales–Pérez D, et al. **Lupus** 1997;6(1):48–56

Exogenous oestrogen affects calcium metabolism differently from exogenous testosterone in ovariectomized or orchiectomized rats fed a high fructose diet severely deficient in magnesium. Koh ET, et al. **Magnes Res** 1996 Mar;9(1):23–31

Stability of free Mg2+ concentration and increased concentration of free Ca2+ in vascular smooth muscle cells during dietary magnesium deficiency in rat. Miyamoto A, et al. **Magnes Res** 1996 Jun;9(2):101–8

Structural and functional aspects of calcium binding in extracellular matrix proteins. Maurer P, et al. **Matrix Biol** 1997 Mar;15(8–9):569–80; discussion 581 (93 ref.)

The effect of age on calcium dynamics in rat brain in vivo. Das N, et al. **Mech Ageing Dev** 1996 Jul 5;88(1–2):17–24

beta–Amyloid–induced IL–1 beta release from an activated human monocyte cell line is calcium– and G–protein–dependent. Lorton D. **Mech Ageing Dev** 1997 Mar;94(1–3):199–211

Disturbances of calcium homeostasis within the endoplasmic reticulum may contribute to the development of ischemic–cell damage. Paschen W. **Med Hypotheses** 1996 Oct;47(4):283–8 (57 ref.)

Compartmental shifts of calcium and magnesium as a result of swimming and swimming training in rats. Navas FJ, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):882–91

Effect of phytohormones on ATP–dependent accumulation of Ca2+ in plasma membrane vesicles from tubers of potato Solanum tuberosum L. Ladyzhenskaya EP, et al. **Membr Cell Biol** 1997;11(1):77–85

In vitro effect of hydrocortisone on calcium distribution in rat thymocytes. Sukocheva OA, et al. **Membr Cell Biol** 1997;10(6):623–30

Intracellular distribution and characteristics of Ca(2+)–transporting systems in cells of ciliate protozoan Tetrahymena pyriformis. Yurkov IS, et al. **Membr Cell Biol** 1997;10(5):565–72

In vivo effect of insulin on intracellular calcium concentrations: relation to insulin resistance. Baldi S, et al. **Metabolism** 1996 Nov;45(11):1402–7

Oscillatory Ca2+ signaling in somatostatin-producing cells from the human pancreas. Berts A, et al. **Metabolism** 1997 Apr;46(4):366-9

Estrogen therapy enhances calcium absorption and retention and diminishes bone turnover in young girls with Turner's syndrome: a calcium kinetic study. Mauras N, et al. **Metabolism** 1997 Aug;46(8):908-13

Calcium-induced activation of the rat vascular myocyte Na+/H+ exchanger isoform-1. Siczkowski M, et al. **Metabolism** 1997 Mar;46(3):250-6

Bioassay for determining endogenous levels of cyclic ADP-ribose. Walseth TF, et al. **Methods Enzymol** 1997; 280:287-94

Effect of angiotensin-converting enzyme inhibition on Na+/H(+)-exchange and Ca(2+)-efflux in human erythrocytes. Lijnen P, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar;19(2):125-8

Comparison of lucifer yellow leakage and cell-to-cell transfer following intracellular injection in normal and antisense Novikoff cells under treatment with low extracellular Ca2+. Liu TF, et al. **Methods Find Exp Clin Pharmacol** 1996 Oct;18(8):493-7

Vascular chemical sulfhydryl alkylation in vitro: alterations in intracellular calcium and cAMP and cGMP metabolism. Tomera JF. **Methods Find Exp Clin Pharmacol** 1997 Mar; 19(2):113-24

Inhibition of phosphodiesterase IV and intracellular calcium levels in human polymorphonuclear leukocytes. Villagrasa V, et al. **Methods Find Exp Clin Pharmacol** 1996 May; 18(4):239-45

Calcitonin and human renal calcium and electrolyte transport. Carney SL. **Miner Electrolyte Metab** 1997; 23(1):43-7

Interaction between extracellular calcium and endothelin-1 influences parathyroid hormone secretion from bovine parathyroid cells through the increase in intracellular calcium. Chang JM, et al. **Miner Electrolyte Metab** 1997; 23(2):113-20

Renal mRNA of PTH-PTHrP receptor, [Ca2+]i and phosphaturic response to PTH in phosphate depletion. Marcinkowski W, et al. **Miner Electrolyte Metab** 1997; 23(1):48-57

Characterization of the alpha-ketoglutarate dehydrogenase complex from Fasciola hepatica: potential implications for the role of calcium in the regulation of helminth mitochondrial metabolism. Diaz F, et al. **Mol Biochem Parasitol** 1996 Oct 30;81(2):243-6

Calcium influx in Trypanosoma brucei can be induced by amphiphilic peptides and amines. Ruben L, et al. **Mol Biochem Parasitol** 1996 Oct 30;81(2):191-200

Nuclear calcium flux in Trypanosoma brucei can be quantified with targeted aequorin. Xiong ZH, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):57-67

Subcellular analysis of Ca2+ homeostasis in primary cultures of skeletal muscle myotubes. Brini M, et al. **Mol Biol Cell** 1997 Jan;8(1):129-43

Aequorin targeted to the endoplasmic reticulum reveals heterogeneity in luminal Ca++ concentration and reports agonist- or IP3-induced release of Ca++. Button D, et al. **Mol Biol Cell** 1996 Mar;7(3):419-34

Down-regulation of G-protein-mediated Ca2+ sensitization in smooth muscle. Gong MC, et al. **Mol Biol Cell** 1997 Feb;8(2):279-86

ERGIC-53 is a functional mannose-selective and calcium-dependent human homologue of leguminous lectins. Itin C, et al. **Mol Biol Cell** 1996 Mar;7(3):483-93

Fibroblasts contracting collagen matrices form transient plasma membrane passages through which the cells take up fluorescein isothiocyanate-dextran and Ca2+. Lin YC, et al. **Mol Biol Cell** 1997 Jan;8(1):59-71

High-resolution calcium mapping of the endoplasmic reticulum-Golgi-exocytic membrane system. Electron energy loss imaging analysis of quick frozen-freeze dried PC12 cells. Pezzati R, et al. **Mol Biol Cell** 1997 Aug; 8(8):1501-12

The association of annexin I with early endosomes is regulated by Ca2+ and requires an intact N-terminal domain. Seemann J, et al. **Mol Biol Cell** 1996 Sep; 7(9):1359-74

Mechanisms of integrin-mediated calcium signaling in MDCK cells: regulation of adhesion by IP3- and store-independent calcium influx. Sjaastad MD, et al. **Mol Biol Cell** 1996 Jul;7(7):1025-41

Modulation of intracellular calcium levels inhibits secretion of collagenase 1 by migrating keratinocytes. Sudbeck BD, et al. **Mol Biol Cell** 1997 May;8(5):811-24

Modulation of cytosolic and nuclear Ca2+ and Na+ transport by taurine in heart cells. Bkaily G, et al. **Mol Cell Biochem** 1997 May;170(1-2):1-8

Subchronic exposure of cardiomyocytes to low concentrations of tumor necrosis factor alpha attenuates the positive inotropic response not only to catecholamines but also to cardiac glycosides and high calcium concentrations. Boekstegers P, et al. **Mol Cell Biochem** 1996 Mar 23;156(2):135-43

Oxidative damage to sarcoplasmic reticulum Ca(2+)-pump induced by Fe2+/H2O2/ascorbate is not mediated by lipid peroxidation or thiol oxidation and leads to protein fragmentation. Castilho RF, et al. **Mol Cell Biochem** 1996 Jun 21;159(2):105-14

Pinocytosis in 2,5-di-tert-butylhydroquinone-stimulated hepatocytes and evaluation of its role in Ca2+ inflow. Fernando KC, et al. **Mol Cell Biochem** 1996 Sep 6; 162(1):23-9

Early postnatal changes in sarcoplasmic reticulum calcium transport function in spontaneously hypertensive rats. Freestone N, et al. **Mol Cell Biochem** 1996 Oct-Nov; 163-164:57-66

Spectroscopic determination of sarcoplasmic reticulum Ca2+ uptake and Ca2+ release. Gilchrist JS, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):159-70

Characterization of calcium accumulation in the brain of rats administered orally calcium: the significance of energy-dependent mechanism. Hanahisa Y, et al. **Mol Cell Biochem** 1996 May 10;158(1):1-7

Increase in calcium content and Ca(2+)-ATPase activity in the brain of fasted rats: comparison with different ages. Hanahisa Y, et al. **Mol Cell Biochem** 1997 Jun; 171(1-2):127-32

Developmental changes of calcium transients and contractility during the cultivation of rat neonatal cardiomyocytes. Husse B, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:13-21

Early after-depolarisations induced by noradrenaline may be initiated by calcium released from sarcoplasmic reticulum. Janiak R, et al. **Mol Cell Biochem** 1996 Oct-Nov; 163-164:125-30

Activatory effect of calcium-binding protein regucalcin on ATP-dependent calcium transport in the basolateral membranes of rat kidney cortex. Kurota H, et al. **Mol Cell Biochem** 1997 Apr;169(1-2):149-56

Cooperative interaction between Ca2+ binding sites in the hydrophilic loop of the Na(+)-Ca2+ exchanger. Levitsky DO, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:27-32

Deformation of the Bowditch staircase in Ca(2+)-overloaded mammalian cardiac tissue--a calcium phenomenon? Löhn M, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:13-25

Deprivation of Na+, Ca2+ and Mg2+ from the extracellular solution increases cytosolic Ca2+ and stimulates catecholamine secretion from cultured bovine adrenal chromaffin cells. Luxoro M, et al. **Mol Cell Biochem** 1997 May;170(1-2):65-73

Effects of advanced glycation end-products on the proliferation and differentiation of osteoblast-like cells. McCarthy AD, et al. **Mol Cell Biochem** 1997 May; 170(1-2):43-51

Relationship between mechanical dysfunction and depression of sarcolemmal Ca(2+)-pump activity in hearts perfused with oxygen free radicals. Matsubara T, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:179-85

Evidence that quantal Ca2+ release in HSG cells is not due to 'all-or-none' release from discrete Ca2+ stores with differing sensitivities to IP3. Moran A, et al. **Mol Cell Biochem** 1996 May 10;158(1):53-6

E-1020, a water soluble imidazopyridine, has direct effects on Ca(2+)-dependent force and ATP hydrolysis of canine and bovine cardiac myofilaments. Powers FM, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:33-9

Role of hydroxyl radical in the oxidant H2O2-mediated Ca2+ release from pulmonary smooth muscle mitochondria. Roychoudhury S, et al. **Mol Cell Biochem** 1996 Jun 21;159(2):95-103

Regional alterations in calcium homeostasis in the primate brain following chronic aluminium exposure. Sarin S, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):95-100

Alterations in Ca2+-ATPase activity and calcium-binding protein regucalcin mRNA expression in the kidney cortex of rats with saline ingestion. Shinya N, et al. **Mol Cell Biochem** 1997 May;170(1-2):17-22

Control of cardiac performance by Ca-turnover. Simurda J, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:5-12 (20 ref.)

Stimulatory effect of regucalcin on ATP-dependent calcium transport in rat liver plasma membranes. Takahashi H, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):149-53

Effect of apoptosis-related compounds on Ca2+ transport system in isolated rat liver nuclei. Ueoka S, et al. **Mol Cell Biochem** 1997 Jan;166(1-2):183-9

Transient Ca2+ changes in endothelial cells induced by low doses of reactive oxygen species: role of hydrogen peroxide. Volk T, et al. **Mol Cell Biochem** 1997 Jun; 171(1-2):11-21

Fura-2 fluorescent technique for the assessment of Ca2+ homeostasis in cardiomyocytes. Xu YJ, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):149-57

Influence of age on 1,25(OH)2-vitamin D3 activation of protein kinase C in rat duodenum. Balogh G, et al. **Mol Cell Endocrinol** 1997 May 16;129(2):127-33

Involvement of both calcium influx and calcium mobilization in growth hormone-induced [Ca2+]i increases in Chinese hamster ovary cells. Boquet G, et al. **Mol Cell Endocrinol** 1997 Jul 4;131(1):109-20

Crosstalk during Ca2+-, cAMP-, and glucocorticoid-induced gene expression in lymphocytes. Dowd DR, et al. **Mol Cell Endocrinol** 1997 Apr 4; 128(1-2):29-37

Changes in responsiveness of freshly isolated longitudinal muscle cells from rat uterus towards oxytocin during gestation: contractility and calcium signaling. Kawarabayashi T, et al. **Mol Cell Endocrinol** 1997 Apr 4; 128(1-2):77-84

Substance P increases intracellular Ca2+ in individual rat pituitary lactotrophs, somatotrophs, and gonadotrophs. Mau SE, et al. **Mol Cell Endocrinol** 1997 Feb 7; 126(2):193-201

Pancreatic islet B-cell individual variability rather than subpopulation heterogeneity. Mercan D, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1-2):163-71

Acute stimulation of intestinal cell calcium influx induced by 17 beta-estradiol via the cAMP messenger system. Picotto G, et al. **Mol Cell Endocrinol** 1996 May 31; 119(2):129-34

Rapid activation of calcium-sensitive Na+/H+ exchange induced by 20-hydroxyecdysone in salivary gland cells of Drosophila melanogaster. Schneider S, et al. **Mol Cell Endocrinol** 1996 Jan 15;116(1):73-9

The insulin-induced down-regulation of IRS-1 in 3T3-L1 adipocytes is mediated by a calcium-dependent thiol protease. Smith LK, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):81-92

Inositol phosphates and inositol phospholipids: how big is the iceberg? Woodcock EA. **Mol Cell Endocrinol** 1997 Mar 14;127(1):1-10 (108 ref.)

An adenosine derivative cooperates with TSH and Graves' IgG to induce Ca2+ mobilization in single human thyroid cells. Yanagita Y, et al. **Mol Cell Endocrinol** 1996 Apr 19; 118(1-2):47-56

Intercellular calcium waves in neurons. Charles AC, et al. **Mol Cell Neurosci** 1996 May;7(5):337-53

Transient coupling of Ng-CAM expression to NgCAM-dependent calcium signaling during migration of new neurons in the adult songbird brain. Goldman SA, et al. **Mol Cell Neurosci** 1996 Jan;7(1):29-45

Cerebrospinal fluid from amyotrophic lateral sclerosis has no effect on intracellular free calcium in cultured cortical neurons. Gredal O, et al. **Mol Chem Neuropathol** 1996 Oct-Dec;29(2-3):141-52

Involvement of nitric oxide in the deregulation of cytosolic calcium in cerebellar neurons during combined glucose-oxygen deprivation. Mei JM, et al. **Mol Chem Neuropathol** 1996 Feb;27(2):155-66

Calcium and glycoprotein hormone alpha-subunit gene expression and secretion in alpha T3-1 gonadotropes. Holdstock JG, et al. **Mol Endocrinol** 1996 Nov; 10(11):1308-17

Thyrotropin (TSH)-releasing hormone stimulates TSH beta promoter activity by two distinct mechanisms involving calcium influx through L type Ca2+ channels and protein kinase C. Shupnik MA, et al. **Mol Endocrinol** 1996 Jan; 10(1):90-9

Chromosome aberrations in human spermatozoa treated with Ca2+ ionophore A23187. Alvarez R, et al. **Mol Hum Reprod** 1996 Jul;2(7):481-4

Regulation of calcium spiking in mammalian oocytes through a combination of inositol trisphosphate-dependent entry and release. Berridge MJ. **Mol Hum Reprod** 1996 Jun; 2(6):386-8 (25 ref.)

Recombinant human zona pellucida glycoprotein 3 induces calcium influx and acrosome reaction in human spermatozoa. Brewis IA, et al. **Mol Hum Reprod** 1996 Aug; 2(8):583-9

Calcium influx pathways in human spermatozoa. Foresta C, et al. **Mol Hum Reprod** 1997 Jan;3(1):1-4 (38 ref.)

Human sperm cytosolic factor triggers Ca2+ oscillations and overcomes activation failure of mammalian oocytes. Palermo GD, et al. **Mol Hum Reprod** 1997 Apr;3(4):367-74

Involvement of osmo-sensitive calcium influx in human sperm activation. Rossato M, et al. **Mol Hum Reprod** 1996 Dec;2(12):903-9

Developmental changes in calcium dynamics, protein kinase C distribution and endoplasmic reticulum organization in human preimplantation embryos. Sousa M, et al. **Mol Hum Reprod** 1996 Dec;2(12):967-77

Calcium responses of human oocytes after intracytoplasmic injection of leukocytes, spermatocytes and round spermatids. Sousa M, et al. **Mol Hum Reprod** 1996 Nov; 2(11):853-7

Effects of protein kinase C activation and inhibition on sperm-, thimerosal-, and ryanodine-induced calcium responses of human oocytes. Sousa M, et al. **Mol Hum Reprod** 1996 Sep;2(9):699-708

Developmental changes in calcium content of ultrastructurally distinct subcellular compartments of preimplantation human embryos. Sousa M, et al. **Mol Hum Reprod** 1997 Feb;3(2):83-90

How and why spermatozoa cause calcium oscillations in mammalian oocytes. Swann K, et al. **Mol Hum Reprod** 1996 Jun;2(6):388-90 (42 ref.)

Mechanism of calcium oscillations in human oocytes: a two-store model. Tesarik J, et al. **Mol Hum Reprod** 1996 Jun;2(6):383-6 (38 ref.)

Single cell analysis of tyrosine kinase dependent and independent Ca2+ fluxes in progesterone induced acrosome reaction. Tesarik J, et al. **Mol Hum Reprod** 1996 Apr;2(4):225-32

Protein kinase C: an example of a calcium-regulated protein binding to membranes (review). Mosior M, et al. **Mol Membr Biol** 1997 Apr-Jun;14(2):65-70 (43 ref.)

Role of Drosophila TRP in inositide-mediated Ca2+ entry. Minke B, et al. **Mol Neurobiol** 1996 Apr;12(2):163-80 (83 ref.)

Elevation of intracellular calcium levels in neurons by nicotinic acetylcholine receptors. Rathouz MM, et al. **Mol Neurobiol** 1996 Apr;12(2):117-31 (113 ref.)

The modulation of calcium currents by the activation of

mGluRs. Functional implications. Stefani A, et al. **Mol Neurobiol** 1996 Aug;13(1):81–95 (81 ref.)

3-Morpholino-sydnonimine-induced suppression of human neutrophil degranulation is not mediated by cyclic GMP, nitric oxide or peroxynitrite: inhibition of the increase in intracellular free calcium concentration by N-morpholino-iminoacetonitrile, a metabolite of 3-morpholino-sydnonimine. Kankaanranta H, et al. **Mol Pharmacol** 1997 May;51(5):882–8

Inhibition of the cardiac sarcolemma Na+/Ca2+ exchanger by conformationally constrained small cyclic peptides. Khananshvili D, et al. **Mol Pharmacol** 1997 Jan; 51(1):126–31

Pituitary adenylate cyclase-activating peptide, carbachol, and glucose stimulate insulin release in the absence of an increase in intracellular Ca2+. Komatsu M, et al. **Mol Pharmacol** 1996 Oct;50(4):1047–54

Calcium-dependent inactivation of recombinant N-methyl-D-aspartate receptors is NR2 subunit specific. Krupp JJ, et al. **Mol Pharmacol** 1996 Dec;50(6):1680–8

Antisense oligonucleotides targeting human protein kinase C-alpha inhibit phorbol ester-induced reduction of bradykinin-evoked calcium mobilization in A549 cells. Levesque L, et al. **Mol Pharmacol** 1997 Feb;51(2):209–16

Constitutive activation of a phosphoinositidase C-linked G protein in murine fibroblasts decreases agonist-stimulated Ca2+ mobilization. Lobaugh LA, et al. **Mol Pharmacol** 1996 Sep;50(3):493–500

Modulation of alpha7 nicotinic receptor-mediated calcium influx by nicotinic agonists. Quik M, et al. **Mol Pharmacol** 1997 Mar;51(3):499–506

Noncoplanar PCB 95 alters microsomal calcium transport by an immunophilin FKBP12-dependent mechanism. Wong PW, et al. **Mol Pharmacol** 1997 May;51(5):693–702

Inhibition of capacitative Ca2+ entry into cells by farnesylcysteine analogs. Xu Y, et al. **Mol Pharmacol** 1996 Dec;50(6):1495–501

Changes of intracellular free calcium during intracytoplasmic sperm injection. Leybaert L, et al. **Mol Reprod Dev** 1996 Feb;43(2):256–60

Calmodulin content, Ca2+-dependent calmodulin binding proteins, and testis growth: identification of Ca2+-dependent calmodulin binding proteins in primary spermatocytes. Trejo R, et al. **Mol Reprod Dev** 1997 Sep; 48(1):127–36

Diacylglycerol species as messengers and substrates for phosphatidylcholine re-synthesis during Ca2+-dependent exocytosis in boar spermatozoa. Vazquez JM, et al. **Mol Reprod Dev** 1997 Sep;48(1):95–105

Injection of a porcine sperm factor triggers calcium oscillations in mouse oocytes and bovine eggs. Wu H, et al. **Mol Reprod Dev** 1997 Feb;46(2):176–89

Acetylcholine receptor and calcium leakage activity in nondystrophic and dystrophic myotubes (MDX) Carlson CG. **Muscle Nerve** 1996 Oct;19(10):1258–67

Single channel evidence for a cytoskeletal defect involving acetylcholine receptors and calcium influx in cultured dystrophic (mdx) myotubes. Carlson CG, et al. **Muscle Nerve** 1996 Sep;19(9):1116–26

Age-related changes in muscle calcium content in dystrophin-deficient mdx mice. Reeve JL, et al. **Muscle Nerve** 1997 Mar;20(3):357–60

Structure of a calpain Ca(2+)-binding domain reveals a novel EF-hand and Ca(2+)-induced conformational changes [see comments] Blanchard H, et al. **Nat Struct Biol** 1997 Jul;4(7):532–8. Comment in: Nat Struct Biol 1997 Jul;4(7):514–6.

Crystal structure of calcium bound domain VI of calpain at 1.9 A resolution and its role in enzyme assembly, regulation, and inhibitor binding [see comments] Lin GD, et al. **Nat Struct Biol** 1997 Jul;4(7):539–47. Comment in: Nat Struct Biol 1997 Jul;4(7):514–6.

Transient elevation of intracellular calcium ion levels as an early event in T-2 toxin-induced apoptosis in human promyelotic cell line HL-60. Yoshino N, et al. **Nat Toxins** 1996;4(5):234–41

Hrs-2 is an ATPase implicated in calcium-regulated secretion. Bean AJ, et al. **Nature** 1997 Feb 27; 385(6619):826–9

The AM and FM of calcium signalling [news; comment] Berridge MJ. **Nature** 1997 Apr 24;386(6627):759–60. Comment on: Nature 1997 Apr 24;386(6627):855–8.

Calcium influx and transmitter release in a fast CNS synapse [see comments] Borst JG, et al. **Nature** 1996 Oct 3; 383(6599):431–4. Comment in: Nature 1996 Oct 3;383(6599):393–4.

Calreticulin is essential for integrin-mediated calcium signalling and cell adhesion. Coppolino MG, et al. **Nature** 1997 Apr 24;386(6627):843–7

Differential activation of transcription factors induced by Ca2+ response amplitude and duration [see comments] [published erratum appears in Nature 1997 Jul 17;388(6639):308] Dolmetsch RE, et al. **Nature** 1997 Apr 24;386(6627):855–8. Comment in: Nature 1997 Apr 24;386(6627):759–60.

Regulation by insulin of a unique neuronal Ca2+ pool and of neuropeptide secretion. Jonas EA, et al. **Nature** 1997 Jan 23;385(6614):343–6

In vivo dendritic calcium dynamics in neocortical pyramidal neurons. Svoboda K, et al. **Nature** 1997 Jan 9; 385(6612):161–5

Rapid shuttling of NF-AT in discrimination of Ca2+ signals and immunosuppression. Timmerman LA, et al. **Nature** 1996 Oct 31;383(6603):837–40

Signal transduction molecules in the rat pineal organ: Ca2+, pCREB, and ICER. Korf HW, et al. **Naturwissenschaften** 1996 Dec;83(12):535–43 (44 ref.)

Palytoxin-induced increase in endothelial Ca2+ concentration in the rabbit aortic valve. Amano K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):751–8

The phosphatase inhibitor okadaic acid blocks KCl-depolarization-induced rise of cytosolic calcium of rat insulinoma cells (RINm5F). Ammon HP, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):95–101

Effects of mibefradil on intracellular Ca2+ release in cultured rat cardiac fibroblasts and human platelets. Eberhard M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):94–101

Mechanisms of serotonin-induced Ca2+ responses in mesangial cells. Goppelt-Struebe M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):240–7

Characteristics of palytoxin-induced cation currents and Ca2+ mobilization in smooth muscle cells of rabbit portal vein. Ishii K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):103–10

Calcium signalling by G protein-coupled sphingolipid receptors in bovine aortic endothelial cells. Meyer zu Heringdrof D, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):397–403

Functional characterisation of P2 purinoceptors in PC12 cells by measurement of radiolabelled calcium influx. Michel AD, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov;354(5):562–71

Capacitative Ca2+ entry associated with alpha1-adrenoceptors in rat aorta. Noguera MA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):83–9

The ryanodine binding sarcoplasmic reticulum calcium release channel in nonfailing and in failing human myocardium. Schumacher C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):80–5

Effects of a myosin light chain kinase inhibitor, wortmannin, on cytoplasmic Ca2+ levels, myosin light chain phosphorylation and force in vascular smooth muscle. Takayama M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):120–7

U-73122, an aminosteroid phospholipase C inhibitor, may also block Ca2+ influx through phospholipase C-independent mechanism in neutrophil activation. Wang JP. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):599–605

Histamine H1 receptors in C6 glial cells are coupled to calcium-dependent potassium channels via release of calcium from internal stores. Weiger T, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):559–65

In U-937 promonocytes, misteltoe lectin I increases basal [Ca2+]i, enhances histamine H1- and complement C5a-receptor-mediated rises in [Ca2+]i, and induces cell death. Wenzel-Seifert K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):190–7

Improved cytosolic free calcium mobilization and superoxide production in bicarbonate-based peritoneal dialysis solution. Dobos GJ, et al. **Nephrol Dial Transplant** 1997 May;12(5):973–7

Cell calcium and arterial blood pressure [editorial] Gonzalez JM, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1507–8

Parathyroid gland calcium receptor gene expression is not regulated by increased dietary phosphorus in normal and renal failure rats. Hernández A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:11–4

Metabolic evaluation of patients with recurrent idiopathic calcium nephrolithiasis. Hess B, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1362–8

The calcitonin-calcium relation curve and calcitonin secretory parameters in renal patients with variable degrees of renal function. Messa P, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2259–65

Actions of endothelin-1 on calcium homeostasis in Madin-Darby canine kidney tubule cells. Parkinson NA, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1532–7

Amlodipine prevents and reverses the elevation in [Ca2+]i and the impaired phagocytosis of PMNL of diabetic rats [see comments] Seyrek N, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):265–72. Comment in: Nephrol Dial Transplant 1997 Feb;12(2):248–9.

Leukocyte flow properties, polymorphonuclear membrane fluidity and cytosolic Ca2+ content in chronic renal failure [letter] Caimi G, et al. **Nephron** 1996;73(4):714

Recombinant erythropoietin increases blood pressure in experimental hypertension and uraemia without change in vascular cytosolic calcium. Roger SD, et al. **Nephron** 1996; 73(2):212–8

Calcium entry stimulated by swelling of Madin-Darby canine kidney cells. Wöll E, et al. **Nephron** 1996;74(1):150–7

Effects of indapamide on Ca2+ entry into vascular smooth muscle cells. Zempel G, et al. **Nephron** 1997;76(4):460–5

Free intracellular calcium in peripheral cells in Alzheimer's disease. Eckert A, et al. **Neurobiol Aging** 1997 May-Jun; 18(3):281–4

Region-specific downregulation of free intracellular calcium in the aged rat brain. Hartmann H, et al. **Neurobiol Aging** 1996 Jul-Aug;17(4):557–63

Calcium responses in human fibroblasts: a diagnostic molecular profile for Alzheimer's disease. Hirashima N, et al. **Neurobiol Aging** 1996 Jul-Aug;17(4):549–55

Free Ca2+ levels and expression of biochemical markers in Alzheimer's fibroblasts [letter] Paoletti F, et al. **Neurobiol Aging** 1997 Mar-Apr;18(2):261–2

Intracellular calcium buffering declines in aging adrenergic nerves. Tsai H, et al. **Neurobiol Aging** 1997 Mar-Apr; 18(2):229–33

Induced spreading depressions in energy-compromised neocortical tissue: calcium transients and histopathological correlates. Gidö G, et al. **Neurobiol Dis** 1994 Nov; 1(1-2):31–41

Mitochondrial morphology and intracellular calcium homeostasis in cytochrome oxidase-deficient human fibroblasts. Handran SD, et al. **Neurobiol Dis** 1997; 3(4):287–98

Cortical neurones with Ca2+ permeable AMPA/kainate channels display distinct receptor immunoreactivity and are GABAergic. Yin Hz, et al. **Neurobiol Dis** 1994 Nov; 1(1-2):43–9

Calcium influx and release from intracellular stores contribute differentially to activity-dependent neuronal facilitation in Hermissenda photoreceptors. Talk AC, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):183–97

Temporal and spatial differences in intracellular Ca++ changes elicited by K+ and glutamate in single cultured neocortical neurons. Belhage B, et al. **Neurochem Int** 1996 Sep;29(3):247–53

Ca(2+)-dependent changes of acetylcholine release and IP3 mass in Torpedo cholinergic synaptosomes. Carrasco MA, et al. **Neurochem Int** 1997 Mar;30(3):321–7

5-Hydroxytryptamine-evoked [Ca2+]i oscillations in rat C6 glioma cells. Cholewinski AJ, et al. **Neurochem Int** 1996 May-Jun;28(5-6):583–9

Correlation between secretagogue-induced Ca2+ influx, intracellular Ca2+ levels and secretion of catecholamines in cultured adrenal chromaffin cells. Heldman E, et al. **Neurochem Int** 1996 Mar;28(3):325–34

NMDAR1 mRNA expression and glutamate receptor stimulated increase in cytosolic calcium concentration in rat and mouse cerebellar granule cells. Mogensen HS, et al. **Neurochem Int** 1996 Nov;29(5):497–506

Two polypeptide toxins with opposite effects on calcium uptake in bovine chromaffin cells: isolation from the venom of the marine snail Conus distans. Partoens P, et al. **Neurochem Int** 1996 May-Jun;28(5-6):619–24

Intracellular Ca2+ signals induced by ATP and thapsigargin in glioma C6 cells. Calcium pools sensitive to inositol 1,4,5-trisphosphate and thapsigargin. Sabała P, et al. **Neurochem Int** 1997 Jul;31(1):55–64

Release of intracellular calcium stores leads to retraction of membrane sheets and cell death in mature mouse oligodendrocytes. Benjamins JA, et al. **Neurochem Res** 1996 Apr;21(4):471–9

Decreased calcium accumulation in isolated nerve endings during hibernation in ground squirrels. Gentile NT, et al. **Neurochem Res** 1996 Aug;21(8):947–54

Alteration of ryanodine receptor in the hippocampus CA1 after hemispheric cerebral ischemia. Nozaki H, et al. **Neurochem Res** 1996 Aug;21(8):975–82

ATP-induced oscillations of cytosolic Ca2+ activity in cultured astrocytes from rat brain are modulated by medium osmolarity indicating a control of [Ca2+]i oscillations by cell volume. Reetz G, et al. **Neurochem Res** 1997 May;22(5):621–8

Inhibitory effect of melatonin on gonadotropin-releasing hormone-induced Ca2+ oscillations in pituitary cells of newborn rats. Zemková H, et al. **Neuroendocrinology** 1997 Apr;65(4):276–83

Effect of cholinergic stimulation on free intracellular Ca2+ concentration in human lymphocytes. Laskowska-Bozek H, et al. **Neuroimmunomodulation** 1996 Jul-Aug;3(4):247–53

NMDA receptor-mediated calcium fluxes in the hippocampus: relevance to ischemic brain pathology. Salińska E, et al. **Neurol Neurochir Pol** 1996;30 Suppl 2:35–42 (34 ref.)

Cerebral calcium fluxes and calcium homeostasis in the rat: a minimal model. Ghosh S, et al. **Neurol Res** 1997 Aug; 19(4):403–8

Purification of a factor from CSF in patient after SAH which induces the cytosolic free calcium elevation in vascular smooth muscle cells. Nakashima T, et al. **Neurol Res** 1997 Feb;19(1):51–6

Amyotrophic lateral sclerosis immunoglobulins are ineffective in altering calcium influx through presynaptic voltage-sensitive calcium channels. Thomas MM, et al. **Neurol Res** 1997 Apr;19(2):129–34

Amyotrophic lateral sclerosis: oxidative energy metabolism and calcium homeostasis in peripheral blood lymphocytes. Curti D, et al. **Neurology** 1996 Oct;47(4):1060–4

Celiac disease with cerebral calcium and silica deposits: x-ray spectroscopic findings, an autopsy study. Toti P, et al. **Neurology** 1996 Apr;46(4):1088–92

Decreased receptor-mediated calcium response in prion-infected cells correlates with decreased membrane fluidity and IP3 release. Wong K, et al. **Neurology** 1996 Sep;47(3):741-50

Hypoosmotic shocks induce elevation of resting calcium level in Duchenne muscular dystrophy myotubes contracting in vitro. Imbert N, et al. **Neuromuscul Disord** 1996 Oct; 6(5):351-60

Release-activated Ca2+ transport in neurons of frog sympathetic ganglia. Cseresnyés Z, et al. **Neuron** 1997 Aug; 19(2):403-19

Low mobility of the Ca2+ buffers in axons of cultured Aplysia neurons. Gabso M, et al. **Neuron** 1997 Mar; 18(3):473-81

Adaptation of Ca(2+)-triggered exocytosis in presynaptic terminals. Hsu SF, et al. **Neuron** 1996 Sep;17(3):501-12

Synaptotagmin-syntaxin interaction: the C2 domain as a Ca2+-dependent electrostatic switch. Shao X, et al. **Neuron** 1997 Jan;18(1):133-42

Local Ca2+ release from internal stores controls exocytosis in pituitary gonadotrophs. Tse FW, et al. **Neuron** 1997 Jan; 18(1):121-32

Nerve activity but not intracellular calcium determines the time course of endocytosis at the frog neuromuscular junction. Wu LG, et al. **Neuron** 1996 Oct;17(4):769-79

Functional activity of new C-terminal cyclic-neurotensin fragment analogs. Akunne HC, et al. **Neuropeptides** 1996 Jun;30(3):213-8

Modulation of endothelin-induced intracellular Ca2+ mobilization by interleukin-1 beta and lipopolysaccharide in C6 rat glioma cells. Kugaya A, et al. **Neuropeptides** 1997 Apr;31(2):187-92

Alpha 2-adrenergic agonists reduce glutamate release and glutamate receptor-mediated calcium changes in hippocampal slices during hypoxia. Bickler PE, et al. **Neuropharmacology** 1996 Jun;35(6):679-87

delta-opioid receptor mobilization of intracellular calcium in SH-SY5Y cells: lack of evidence for delta-receptor subtypes. Connor MA, et al. **Neuropharmacology** 1997 Jan; 36(1):125-33

(+/-)-kavain inhibits the veratridine- and KCl-induced increase in intracellular Ca2+ and glutamate-release of rat cerebrocortical synaptosomes. Gleitz J, et al. **Neuropharmacology** 1996 Feb;35(2):179-86

The protective action of tetrodotoxin and (+/-)-kavain on anaerobic glycolysis, ATP content and intracellular Na+ and Ca2+ of anoxic brain vesicles. Gleitz J, et al. **Neuropharmacology** 1996;35(12):1743-52

Presynaptic GABAB-and gamma-hydroxybutyric acid-mediated mechanisms in generalized absence seizures. Snead OC 3rd. **Neuropharmacology** 1996 Mar;35(3):359-67

Modulation of the Ca(2+)-dependent K+ channel, hslo, by the substituted diphenylurea NS 1608, paxilline and internal Ca2+. Strøbaek D, et al. **Neuropharmacology** 1996; 35(7):903-14

Effects of chronic exposure to desipramine and mianserin on Ca2+ mobilization induced by noradrenaline, acetylcholine, and high K+ in rat frontocortical neurons. Shimizu M, et al. **Neuropsychobiology** 1996;33(2):66-70

Effects of clomipramine and verapamil on 5-HT-induced intracellular calcium changes in individual C6 rat glioma cells. Yamaji T, et al. **Neuropsychobiology** 1996;33(2):55-9

Effects of carbamazepine and sodium valproate on 5-HT-induced calcium increase in individual C6 rat glioma cells. Yamaji T, et al. **Neuropsychobiology** 1996;34(1):22-5

Serum Mg2+ and Ca2+/Mg2+ ratio in major depressive disorder. Young LT, et al. **Neuropsychobiology** 1996; 34(1):26-8

ALS IgGs suppress [Ca2+]i rise through P/Q-type calcium channels in central neurones in culture. Andjus PR, et al. **Neuroreport** 1996 Aug 12;7(12):1914-6

Rat astroglial P2Z (P2X7) receptors regulate intracellular calcium and purine release. Ballerini P, et al. **Neuroreport** 1996 Nov 4;7(15-17):2533-7

Alzheimer's PS-1 mutation perturbs calcium homeostasis and sensitizes PC12 cells to death induced by amyloid beta-peptide. Guo Q, et al. **Neuroreport** 1996 Dec 20; 8(1):379-83

Interaction between the intracellular Ca2+ stores in rat dissociated hippocampal neurones. Imanishi T, et al. **Neuroreport** 1996 May 31;7(8):1421-6

Spermine blocks synaptic transmission mediated by Ca(2+)-permeable AMPA receptors. Isa T, et al. **Neuroreport** 1996 Feb 29;7(3):689-92

Phototransduction and calcium exchange along the length of the retinal rod outer segment. Leibovic KN, et al. **Neuroreport** 1997 Mar 24;8(5):1295-300

Neuropeptide Y elevates intracellular Ca2+ and evokes noradrenaline release in SH-SY5Y cells. McDonald RL, et al. **Neuroreport** 1996 Nov 25;7(18):2913-6

Endothelin-induced calcium signaling in cultured mouse microglial cells is mediated through ETB receptors. Möller T, et al. **Neuroreport** 1997 Jul 7;8(9-10):2127-31

Sodium butyrate decreases histamine-stimulated calcium mobilization in C6 glioma cells. Ou HC, et al. **Neuroreport** 1997 Apr 14;8(6):1375-8

Distribution of Ca(2+)-permeable AMPA receptors among cultured rat cerebellar granule cells. Savidge JR, et al. **Neuroreport** 1997 May 27;8(8):1877-82

Modulation of NMDA-induced cytosolic calcium levels by ACPC in cultured cerebellar granule cells. Sureda FX, et al. **Neuroreport** 1996 Jul 29;7(11):1824-8

ATP induces Ca2+ release from IP3-sensitive Ca2+ stores exclusively in large DRG neurones. Svichar N, et al. **Neuroreport** 1997 May 6;8(7):1555-9

NMDA receptor clustering in rat prefrontal cortex revealed by in vitro calcium macroimaging. Takita M, et al. **Neuroreport** 1997 Jan 20;8(2):551-3

Gangliosides enhance KCl-induced Ca2+ influx and acetylcholine release in brain synaptosomes. Tanaka Y, et al. **Neuroreport** 1997 Jul 7;8(9-10):2203-7

Recombinant AMPA receptors with low Ca2+ permeability increase intracellular Ca2+ in HEK 293 cells. Utz AL, et al. **Neuroreport** 1997 May 27;8(8):1975-80

P2 purinoceptor-mediated intracellular Ca2+ transients in human sural nerve. Wächtler J, et al. **Neuroreport** 1996 May 17;7(7):1289-92

Glutamate receptors and calcium entry mechanisms for domoic acid in hippocampal neurons. Xi D, et al. **Neuroreport** 1996 Apr 26;7(6):1115-20

Cholesterol protects PC12 cells from beta-amyloid induced calcium disordering and cytotoxicity. Zhou Y, et al. **Neuroreport** 1996 Nov 4;7(15-17):2487-90

Synchronous recording of neuronal activity and dynamics of the content of intracellular bound calcium in the cerebral cortex of the cat. Semenov DG, et al. **Neurosci Behav Physiol** 1996 May-Jun;26(3):256-8

Low levels of serum ionized magnesium are found in patients early after stroke which result in rapid elevation in cytosolic free calcium and spasm in cerebral vascular muscle cells. Altura BT, et al. **Neurosci Lett** 1997 Jul 11; 230(1):37-40

Changes in intracellular calcium induced by NMDA in cultured rat hippocampal neurons require exogenous glycine. Andjus PR, et al. **Neurosci Lett** 1996 May 24; 210(1):25-8

Increased agonist and antagonist sensitivity of N-methyl-D-aspartate stimulated calcium flux in cultured neurons following chronic ethanol exposure. Blevins T, et al. **Neurosci Lett** 1995 Nov 24;200(3):214-8

Intrasynaptosomal free calcium levels in rat forebrain synaptosomes: modulation by sigma (sigma) receptor ligands. Brent PJ, et al. **Neurosci Lett** 1996 Jun 21; 211(2):138-42

QEHA27, a peptide that binds to G-protein beta gamma-subunits, reduces the inhibitory effect of 5-HT on the Ca2+ current of rat dorsal raphe neurons. Chen Y, et al. **Neurosci Lett** 1997 Mar 14;224(2):87-90

Modulation of cerebral calcium homeostasis in rats by angiotensin II in vivo. Das N, et al. **Neurosci Lett** 1997 Feb 28;223(3):149-52

Muscarinic activation reduces changes in [Ca2+]o evoked by stimulation of Schaffer collaterals during blocked synaptic transmission in rat hippocampal slices. Egorov AV, et al. **Neurosci Lett** 1996 Aug 23;214(2-3):187-90

The effect of tetraethylammonium on intracellular calcium concentration in Alzheimer's disease fibroblasts with APP, S182 and E5-1 missense mutations. Failli P, et al. **Neurosci Lett** 1996 Apr 26;208(3):216-8

Angiotensin II as a stimulator of Na(+)-dependent Ca2+ efflux from freshly isolated adult rat cardiomyocytes. Fukuta Y, et al. **Neurosci Lett** 1996 Aug 2;213(2):95-8

Activation of heme oxygenase-1 expression by disturbance of endoplasmic reticulum calcium homeostasis in rat neuronal cell culture. Gissel C, et al. **Neurosci Lett** 1997 Aug 8;231(2):75-8

Angiotensin II-induced inhibition and facilitation of calcium current subtypes in rat retinal ganglion cells. Guenther E, et al. **Neurosci Lett** 1997 Aug 8;231(2):71-4

Neuroprotective nitric oxide synthase inhibitor reduces intracellular calcium accumulation following transient global ischemia in the gerbil. Kohno K, et al. **Neurosci Lett** 1997 Mar 7;224(1):17-20

Extracellular Ca2+ changes during transmitter application in the leech central nervous system. Lohr C, et al. **Neurosci Lett** 1996 Feb 16;205(1):57-60

High affinity block by nimodipine of the internal calcium elevation in chronically depolarized rat cerebellar granule neurons. Marchetti C, et al. **Neurosci Lett** 1996 Mar 29; 207(2):77-80

Intracellular calcium transients mediated by P2 receptors in the paranodal Schwann cell region of myelinated rat spinal root axons. Mayer C, et al. **Neurosci Lett** 1997 Mar 7; 224(1):49-52

Serotonin increases Na(+)-dependent Ca2+ efflux from bovine adrenal chromaffin cells in culture. Minakuchi K, et al. **Neurosci Lett** 1997 Feb 14;223(1):17-20

Rapid chelation of calcium entering isolated rat brain nerve terminals during stimulation inhibits neurotransmitter release. Nichols RA, et al. **Neurosci Lett** 1996 Jun 21; 211(2):135-7

Dendritic Ca2+ response in cercal sensory interneurons of the cricket Gryllus bimaculatus. Ogawa H, et al. **Neurosci Lett** 1996 Nov 15;219(1):21-4

Activity-dependent survival of rat cerebellar granule neurons is not associated with sustained elevation of intracellular Ca2+. Ono T, et al. **Neurosci Lett** 1997 Jun 6;228(2):123-6

Changes in endoplasmic reticulum Ca(2-)-ATPase mRNA levels in transient cerebral ischemia of rat: a quantitative polymerase chain reaction study. Paschen W, et al. **Neurosci Lett** 1996 Oct 11;217(1):41-4

Depleted internal store-activated Ca2+ entry can trigger neurotransmitter release in bovine chromaffin cells [published erratum appears in Neurosci Lett 1996 May 24;210(1):74] Powis DA, et al. **Neurosci Lett** 1996 Feb 9; 204(3):165-8

NMDA receptor-mediated calcium entry in the absence of AMPA receptor activation in rat dorsal horn neurons. Reichling DB, et al. **Neurosci Lett** 1996 Feb 2; 204(1-2):17-20

Routes of NMDA- and K(+)-stimulated calcium entry in rat cerebellar granule cells. Savidge JR, et al. **Neurosci Lett** 1997 Jun 27;229(2):109-12

InsP3-induced Ca2+ release in dorsal root ganglion neurones. Svichar N, et al. **Neurosci Lett** 1997 May 16; 227(2):107-10

The dilute-lethal (dl) gene attacks a Ca2+ store in the dendritic spine of Purkinje cells in mice. Takagishi Y, et al. **Neurosci Lett** 1996 Sep 13;215(3):169-72

Effects of hypothermia on the neuronal activity, [Ca2+]i accumulation and ATP levels during oxygen and/or glucose deprivation in hippocampal slices of guinea pigs. Takata T, et al. **Neurosci Lett** 1997 May 9;227(1):41-4

Neuronal nicotinic receptor operates slow Ca2+ mobilization at mouse muscle endplate. Tsuneki H, et al. **Neurosci Lett** 1997 Apr 11;225(3):185-8

Halothane alters electrical activity and calcium dynamics in cultured mouse cortical, spinal cord, and dorsal root ganglion neurons. Wamil AW, et al. **Neurosci Lett** 1996 Sep 27;216(2):93-6

Neuroligand-triggered calcium signalling in cultured human glioma cells. Weydt P, et al. **Neurosci Lett** 1997 Jun 6; 228(2):91-4

Extracellular sodium concentration has diverse effects on the hypoxia-induced increase in intracellular Ca2+ in rat hippocampal slices. Yamaguchi S, et al. **Neurosci Lett** 1997 Sep 5;232(3):163-6

Effects of phorbol ester on intracellular Ca2+ and membrane currents in cultured human microglia. Yoo AS, et al. **Neurosci Lett** 1996 Oct 25;218(1):37-40

Acute cocaine results in rapid rises in intracellular free calcium concentration in canine cerebral vascular smooth muscle cells: possible relation to etiology of stroke. Zhang A, et al. **Neurosci Lett** 1996 Aug 30;215(1):57-9

Modeling and analysis of spatio-temporal change in [Ca2+]i in a retinal rod outer segment. Ichikawa K. **Neurosci Res** 1996 Jun;25(2):137-44

Intracellular Ca2+, Na+ and H+ transients evoked by kainate in the leech giant glial cells in situ. Munsch T, et al. **Neurosci Res** 1997 Jan;27(1):45-56

Extracellular ATP increases intracellular calcium in cultured adult Schwann cells. Ansselin AD, et al. **Neuroscience** 1997 Feb;76(3):947-55

Calcium currents in pyramidal CA1 neurons in vitro after kindling epileptogenesis in the hippocampus of the rat. Faas GC, et al. **Neuroscience** 1996 Nov;75(1):57-67

Comparison of cytosolic Ca2+ and exocytosis responses from single rat and bovine chromaffin cells. Finnegan JM, et al. **Neuroscience** 1996 Apr;71(3):833-43

ATP acting on P2Y receptors triggers calcium mobilization in Schwann cells at the neuroelectrocyte junction in skate. Green AC, et al. **Neuroscience** 1997 Sep;80(2):635-51

P2 purinoceptors in rat cortical astrocytes: expression, calcium-imaging and signalling studies. King BF, et al. **Neuroscience** 1996 Oct;74(4):1187-96

Activation of P2-purino-, alpha 1-adreno and H1-histamine receptors triggers cytoplasmic calcium signalling in cerebellar Purkinje neurons. Kirischuk S, et al. **Neuroscience** 1996 Aug;73(3):643-7

High intracellular calcium levels during and after electrical discharges in molluscan peptidergic neurons. Kits KS, et al. **Neuroscience** 1997 Jul;79(1):275-84

High intracellular calcium levels during and after electrical discharges in molluscan peptidergic neurons. Kits KS, et al. **Neuroscience** 1997 Jul;79(1): 75-84

Potentiation of spontaneous acetylcholine release from motor nerve terminals by glutamate in Xenopus tadpoles. Liou HC, et al. **Neuroscience** 1996 Nov;75(1):325-31

Alterations in synaptosomal calcium concentrations after rapid eye movement sleep deprivation in rats. Mallick BN, et al. **Neuroscience** 1996 Dec;75(3):729-36

Bidirectional regulation of neuronal potassium currents by the G-protein activator aluminum fluoride as a function of intracellular calcium concentration. Matzel LD, et al. **Neuroscience** 1996 Oct;74(4):1175-85

Accumulation and extrusion of permeant Ca2+ chelators in attenuation of synaptic transmission at hippocampal CA1 neurons. Ouanounou A, et al. **Neuroscience** 1996 Nov; 75(1):99-109

Mechanisms of intracellular calcium regulation in adult astrocytes. Peuchen S, et al. **Neuroscience** 1996 Apr; 71(3):871-83

Gradual caffeine-induced Ca2+ release in mouse dorsal root ganglion neurons is controlled by cytoplasmic and luminal Ca2+. Shmigol A, et al. **Neuroscience** 1996 Aug; 73(4):1061-7

Intracellular calcium redistribution accompanies changes in total tissue Na+, K+ and water during the first two hours of in vitro incubation of hippocampal slices. Siklós L, et al. **Neuroscience** 1997 Aug;79(4):1013-22

Modulation of hippocampal synaptic transmission by low concentrations of cell-permeant Ca2+ chelators: effects of Ca2+ affinity, chelator structure and binding kinetics. Spigelman I, et al. **Neuroscience** 1996 Nov;75(2):559-72

Tetrandrine blocks voltage-dependent calcium entry and inhibits the bradykinin-induced elevation of intracellular

calcium in NG108-15 cells. Bickmeyer U, et al. **Neurotoxicology** 1996 Summer;17(2):335-41

Mercurial-induced alterations in neuronal divalent cation homeostasis. Denny MF, et al. **Neurotoxicology** 1996 Spring;17(1):47-61 (90 ref.)

The relation between nuclear gene expression and calcium ion in osteoblastic MC3T3-E1 cells. Deyama Y, et al. **Nucleic Acids Symp Ser** 1995;(34):79-80

Slow increase in intranuclear and cytosolic free calcium concentrations in L929 cells is important in tumour necrosis factor-alpha-mediated cell death. Kong SK, et al. **Oncology** 1997 Jan-Feb;54(1):55-62

In vitro precipitation of rat lens crystallins by calpain I--a calpain requiring low amounts of calcium for activation. Shearer TR, et al. **Ophthalmic Res** 1996;28 Suppl 2:109-14

Calcium distribution in the human eye lens. Vrensen GF, et al. **Ophthalmic Res** 1996;28 Suppl 2:78-85

Intracellular Ca2+ mobilization in cultured human mucosal microvascular endothelial cells from the nasal inferior turbinate. Ikeda H, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Nov-Dec; 58(6):320-5

Polychromatic labeling of otoconia for the investigation of calcium turnover. Takumida M, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jan-Feb;59(1):4-9

Osteoporosis in pregnancy. Khovidhunkit W, et al. **Osteoporos Int** 1996;6(5):345-54 (92 ref.)

Involvement of increased excitatory amino acids and intracellular Ca2+ concentration in the spinal dorsal horn in an animal model of neuropathic pain. Kawamata M, et al. **Pain** 1996 Nov;68(1):85-96

Intraerythrocytic calcium chelators inhibit the invasion of Plasmodium falciparum. Wasserman M, et al. **Parasitol Res** 1996;82(2):102-107

Age dependence of tolerance to anoxia and changes in cytosolic calcium in rabbit renal proximal tubules. Constantinescu AR, et al. **Pediatr Nephrol** 1996 Oct; 10(5):606-12

Intestinal transport of calcium in rat biliary cirrhosis. Buts JP, et al. **Pediatr Res** 1996 Oct;40(4):533-41

The effect of casein phosphopeptides on zinc and calcium absorption from high phytate infant diets assessed in rat pups and Caco-2 cells. Hansen M, et al. **Pediatr Res** 1996 Oct;40(4):547-52

Index of suspicion. Case 2 presentation. Shaia HJ, et al. **Pediatr Rev** 1997 Jul;18(7):248-50

Amylin mobilizes [Ca2+]i and stimulates the release of pancreatic digestive enzymes from rat acinar AR42J cells: evidence for an exclusive receptor system of amylin. Huang Y, et al. **Peptides** 1996;17(3):497-502

Gastrin-releasing peptide mobilizes calcium from intracellular stores in HIT-T15 cells. Karlsson S, et al. **Peptides** 1996;17(6):909-16

Calcium kinetic studies in patients on CAPD: improvement of secondary hyperparathyroidism without concomitant improvement of calcium turnover. Kurz P, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):59-65

Calcium metabolism in blood and peritoneal lymphocytes from continuous ambulatory peritoneal dialysis patients. Lewis SL, et al. **Perit Dial Int** 1997 May-Jun;17(3):287-94

Insulin restores the calcium-activated chloride conductance in dedifferentiated renal glomerular mesangial cells from the H-2KB-TSA58 [corrected] transgenic mouse [published erratum appears in Pflugers Arch 1996 Oct;432(6):1097] Barber RD, et al. **Pflugers Arch** 1996 Aug; 432(4):749-51

A new technique for assessing the microscopic distribution of cellular calcium exit sites. Belan PV, et al. **Pflugers Arch** 1996 Nov-Dec;433(1-2):200-8

Effect of alkalinization of cytosolic pH by amines on intracellular Ca2+ activity in HT29 cells. Benning N, et al. **Pflugers Arch** 1996 May;432(1):126-33

Paracellular calcium transport across Caco-2 and HT29 cell monolayers. Blais A, et al. **Pflugers Arch** 1997 Jul; 434(3):300-5

Evidence for vacuolar-type proton pumps in nonmitochondrial and inositol 1,4,5-trisphosphate-sensitive calcium stores of insulin-secreting cells. Bode H, et al. **Pflugers Arch** 1996 May;432(1):97-104

An increase in [Ca2+]i activates basolateral chloride channels and inhibits apical sodium channels in frog skin epithelium. Brodin B, et al. **Pflugers Arch** 1996 Nov-Dec; 433(1-2):16-25

Sustained GABA-induced regulation of the L-type Ca2+ conductance in crustacean muscle fibers. Castellote J, et al. **Pflugers Arch** 1997 Jul;434(3):272-9

Presence of two Ca2+ influx components in internal Ca2+-pool-depleted rat parotid acinar cells. Chauthaiwale JV, et al. **Pflugers Arch** 1996 May;432(1):105-11

Effects of thapsigargin and cyclopiazonic acid on sarcoplasmic reticulum Ca2+ uptake, spontaneous force oscillations and myofilament Ca2+ sensitivity in skinned rat ventricular trabeculae. Du GG, et al. **Pflugers Arch** 1996 May;432(1):59-65

Kinetic properties of DM-nitrophen and calcium indicators: rapid transient response to flash photolysis. Escobar AL, et al. **Pflugers Arch** 1997 Sep;434(5):615-31

Attenuation of stimulated Ca2+ influx in colonic epithelial (HT29) cells by cAMP. Fischer K, et al. **Pflugers Arch** 1996 Aug;432(4):735-40

Calcium transport pathways in the nucleus. Gerasimenko OV, et al. **Pflugers Arch** 1996 May;432(1):1-6 (34 ref.)

Adaptive control of intracellular Ca2+ release in C2C12 mouse myotubes. Gyorke I, et al. **Pflugers Arch** 1996 Apr; 431(6):838-43

Calcium influx pathways in rat pancreatic ducts. Hug MJ, et al. **Pflugers Arch** 1996 Jun;432(2):278-85

[Ca2+]i recordings from neural cells in acutely isolated cerebellar slices employing differential loading of the membrane-permeant form of the calcium indicator fura-2. Kirischuk S, et al. **Pflugers Arch** 1996 Apr;431(6):977-83

The sarcolemmal mechanisms involved in the control of diastolic intracellular calcium in isolated rat cardiac trabeculae. Lamont C, et al. **Pflugers Arch** 1996 Oct; 432(6):961-9

ATP increases [Ca2+]i and ion secretion via a basolateral P2Y-receptor in rat distal colonic mucosa. Leipziger J, et al. **Pflugers Arch** 1997 May;434(1):77-83

Regulation of calcium release by calcium inside the sarcoplasmic reticulum in ventricular myocytes. Lukyanenko V, et al. **Pflugers Arch** 1996 Oct; 432(6):1047-54

The contribution of the sarcoplasmic reticulum Ca2+-transport ATPase to caffeine-induced Ca2+ transients of murine skinned skeletal muscle fibres. Makabe M, et al. **Pflugers Arch** 1996 Aug;432(4):717-26

Regulation of force and shortening velocity by calcium and myosin phosphorylation in chemically skinned smooth muscle. Malmqvist U, et al. **Pflugers Arch** 1996 Nov-Dec; 433(1-2):42-8

Voltage dependence of the Fura-2 transient in rabbit left atrial myocytes at 37 degrees C. Mitcheson JS, et al. **Pflugers Arch** 1997 Apr;433(6):817-26

[Ca2+]i elevation evoked by Ca2+ readdition to the medium after agonist-induced Ca2+ release can involve both IP3-, and ryanodine-sensitive Ca2+ release. Mozhayeva MG. **Pflugers Arch** 1996 Nov-Dec;433(1-2):180-7

Evidence for the existence of inositol (1,4,5)-trisphosphate- and ryanodine-sensitive pools in bovine endothelial cells. Ca2+ releases in cells with different basal level of intracellular Ca2+ Mozhayeva MG, et al. **Pflugers Arch** 1996 Aug;432(4):614-22

Effect of intracellular pH on agonist-induced [Ca2+]i transients in HT29 cells. Nitschke R, et al. **Pflugers Arch** 1997 Aug;434(4):466-74

The effect of intracellular pH on cytosolic Ca2+ in HT29 cells. Nitschke R, et al. **Pflugers Arch** 1996 Nov-Dec; 433(1-2):98-108

A modified confocal laser scanning microscope allows fast ultraviolet ratio imaging of intracellular Ca2+ activity using Fura-2. Nitschke R, et al. **Pflugers Arch** 1997 Mar; 433(5):653-63

Adenine nucleotides and intracellular Ca2+ regulate a voltage-dependent and glucose-sensitive potassium channel in neurosecretory cells. Onetti CG, et al. **Pflugers Arch** 1996 May;432(1):144-54

Effects of protein phosphorylation on the regulation of capacitative calcium influx in Xenopus oocytes. Parekh AB, et al. **Pflugers Arch** 1996 May;432(1):14-25

Capacitative calcium entry is colocalised with calcium release in Xenopus oocytes: evidence against a highly diffusible calcium influx factor. Petersen CC, et al. **Pflugers Arch** 1996 Jun;432(2):286-92

Simultaneous recording of ATP-sensitive K+ current and intracellular Ca2+ in anoxic rat ventricular myocytes. Effects of glibenclamide. Russ U, et al. **Pflugers Arch** 1996 May;432(1):75-80

Effects of the Na+/H+-exchange inhibitor Hoe 642 on intracellular pH, calcium and sodium in isolated rat ventricular myocytes. Russ U, et al. **Pflugers Arch** 1996 Nov-Dec;433(1-2):26-34

Role for protein kinase in Ca2+-dependent feedback modulation of divalent cation influx in internal-Ca2+-store-depleted rat parotid gland cells. Sakai T, et al. **Pflugers Arch** 1997 Feb;433(4):464-71

Intracellular Ca2+ distribution in migrating transformed epithelial cells. Schwab A, et al. **Pflugers Arch** 1997 May; 434(1):70-6

Cytoplasmic Ca2+ gradients evoked by acetylcholine and peptides in pancreatic acinar cells of the guinea-pig. Sjödin L, et al. **Pflugers Arch** 1997 Feb;433(4):397-402

A hypo-osmotically induced increase in intracellular Ca2+ in lactating mouse mammary epithelial cells involving Ca2+ influx. Sudlow AW, et al. **Pflugers Arch** 1997 Mar; 433(5):609-16

The effects of changes to action potential duration on the calcium content of the sarcoplasmic reticulum in isolated guinea-pig ventricular myocytes. Terracciano CM, et al. **Pflugers Arch** 1997 Feb;433(4):542-4

Arachidonic acid as a second messenger for hypotonicity-induced calcium transients in rat IMCD cells. Tinel H, et al. **Pflugers Arch** 1997 Jan;433(3):245-53

Activity of protein kinase C is necessary for sustained thrombin-induced [Ca2+]i oscillations in rat glioma cells. Ubl JJ, et al. **Pflugers Arch** 1997 Jan;433(3):312-20

Whole-cell currents from the cloned canine cardiac Na+/Ca2+ exchanger NCX1 overexpressed in a fibroblast cell CCL39. Uehara A, et al. **Pflugers Arch** 1997 Jul; 434(3):335-8

Vasopressin-stimulated Ca2+ reabsorption in rabbit cortical collecting system: effects on cAMP and cytosolic Ca2+ van Baal J, et al. **Pflugers Arch** 1996 Nov-Dec; 433(1-2):109-15

(R)-methanandamide inhibits receptor-induced calcium responses by depleting internal calcium stores in cultured astrocytes. Venance L, et al. **Pflugers Arch** 1997 May; 434(1):147-9

The direct effect of carbon monoxide on KCa channels in vascular smooth muscle cells. Wang R, et al. **Pflugers Arch** 1997 Jul;434(3):285-91

The effects of intracellular injections of phosphate on intracellular calcium and force in single fibres of mouse skeletal muscle. Westerblad H, et al. **Pflugers Arch** 1996 Apr;431(6):964-70

Regulation of 5-hydroxytryptamine-induced calcium mobilization by cAMP-elevating agents in cultured canine tracheal smooth muscle cells. Yang C, et al. **Pflugers Arch** 1996 Aug;432(4):708-16

Effect of uncoupling NO/cGMP pathways on carbachol- and CCK-stimulated Ca2+ entry and amylase secretion from the rat pancreas. Yoshida H, et al. **Pflugers Arch** 1997 May;434(1):25-37

Role of calcium-dependent K+ channels in the regulation of arterial and venous tone by nitric oxide in pigs. Zanzinger J, et al. **Pflugers Arch** 1996 Aug;432(4):671-7

Calcium movements, distribution, and functions in smooth muscle. Karaki H, et al. **Pharmacol Rev** 1997 Jun; 49(2):157-230 (868 ref.)

Regulation of cytosolic calcium levels in vascular smooth muscle. Orallo F. **Pharmacol Ther** 1996;69(3):153-71 (267 ref.)

Effects of calcium blockers on the cytosolic calcium, H2O2 production and elastase release in human neutrophils. Haga Y, et al. **Pharmacol Toxicol** 1996 Dec;79(6):312-7

Effects of calcium channel modulators on the regulation of cytoplasmic Ca2+ and hormone secretion of parathyroid cells. Ridefelt P, et al. **Pharmacol Toxicol** 1996 Mar; 78(3):147-53

Chlorpromazine and diltiazem effects in muscle: blockage of acetylcholine-evoked contractures, membrane currents and tracer calcium uptake. Lorković H, et al. **Pharmacology** 1996 Jul;53(1):11-8

A novel aspect of photodynamic action: induction of recurrent spikes in cytosolic calcium concentration. Cui ZJ, et al. **Photochem Photobiol** 1997 Feb;65(2):382-6

Inhibitory effect of hydrocortisone on the blood flow and 45Ca and 3H-proline incorporation into bones of female rats. Kapitola J, et al. **Physiol Res** 1995;44(3):179-84

Aspects of calcium transport by the ovine placenta: studies based on the interplacentomal region of the chorion. Jones GV, et al. **Placenta** 1997 May;18(4):357-64

Effects of cadmium on trophoblast calcium transport. Lin FJ, et al. **Placenta** 1997 May;18(4):341-56

Cloning of a Ca(2+)-ATPase gene and the role of cytosolic Ca2+ in the gibberellin-dependent signaling pathway in aleurone cells. Chen X, et al. **Plant J** 1997 Mar;11(3):363-71

Cytoplasmic free calcium distributions during the development of root hairs of Arabidopsis thaliana. Wymer CL, et al. **Plant J** 1997 Aug;12(2):427-39

Cloning and characterization of the calreticulin gene from Ricinus communis L. Coughlan SJ, et al. **Plant Mol Biol** 1997 Aug;34(6):897-911

Calcium influx signals normal flagellar RNA induction following acid shock of Chlamydomonas reinhardtii. Evans JH, et al. **Plant Mol Biol** 1997 Feb;33(3):467-81

Cytoplasmic free Ca2+ in Arabidopsis roots changes in response to touch but not gravity. Legué V, et al. **Plant Physiol** 1997 Jul;114(3):789-800

Ca(2+)-activated anion channels and membrane depolarizations induced by blue light and cold in Arabidopsis seedlings. Lewis BD, et al. **Plant Physiol** 1997 Aug;114(4):1327-34

Inositol 1,4,5-trisphosphate-sensitive Ca2+ release across nonvacuolar membranes in cauliflower. Muir SR, et al. **Plant Physiol** 1997 Aug;114(4):1511-21

Convergence of the abscisic acid, CO2, and extracellular calcium signal transduction pathways in stomatal guard cells. Webb AA, et al. **Plant Physiol** 1997 Aug; 114(4):1557-60

Tetramethylpyrazine, a calcium antagonist. Pang PK, et al. **Planta Med** 1996 Oct;62(5):431-5

Utilization of phytate phosphorus and calcium as influenced by microbial phytase, cholecalciferol, and the calcium: total phosphorus ratio in broiler diets. Qian H, et al. **Poult Sci** 1997 Jan;76(1):37-46

The effects of a thyroid hormone analog on left ventricular performance and contractile and calcium cycling proteins in the baboon. Hoit BD, et al. **Proc Assoc Am Physicians** 1997 Mar;109(2):136-45

Ataxia and altered dendritic calcium signaling in mice carrying a targeted null mutation of the calbindin D28k gene. Airaksinen MS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1488-93

Calmodulin regulation of light adaptation and store-operated dark current in Drosophila photoreceptors. Arnon A, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5894-9

On the molecular basis and regulation of cellular capacitative calcium entry: roles for Trp proteins. Birnbaumer L, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15195-202 (63 ref.)

Sarcoplasmic reticulum Ca2+ release flux underlying Ca2+ sparks in cardiac muscle. Blatter LA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4176-81

The rotavirus enterotoxin NSP4 mobilizes intracellular calcium in human intestinal cells by stimulating phospholipase C-mediated inositol 1,4,5-trisphosphate

production. Dong Y, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3960–5

Elevation of intracellular calcium in smooth muscle causes endothelial cell generation of NO in arterioles. Dora KA, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6529–34

Inositol hexakisphosphate stimulates non–Ca2+–mediated and primes Ca2+–mediated exocytosis of insulin by activation of protein kinase C. Efanov AM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4435–9

Lambert–Eaton sera reduce low–voltage and high–voltage activated Ca2+ currents in murine dorsal root ganglion neurons. García KD, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9264–9

Rapid activation of Na+/H+ exchange by aldosterone in renal epithelial cells requires Ca2+ and stimulation of a plasma membrane proton conductance. Gekle M, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10500–4

Coexpression of Drosophila TRP and TRP–like proteins in Xenopus oocytes reconstitutes capacitative Ca2+ entry. Gillo B, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):14146–51

Effect of beta–amyloid block of the fast–inactivating K+ channel on intracellular Ca2+ and excitability in a modeled neuron. Good TA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15130–5

Absence of the beta subunit (cchb1) of the skeletal muscle dihydropyridine receptor alters expression of the alpha 1 subunit and eliminates excitation–contraction coupling. Gregg RG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13961–6

The beta subunit of the high–conductance calcium–activated potassium channel contributes to the high–affinity receptor for charybdotoxin. Hanner M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2853–8

An extracellular signaling component in propagation of astrocytic calcium waves. Hassinger TD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13268–73

7–Chloro–3–methyl–3,4–dihydro–2H–1,2,4–benzothiadiazine S,S–dioxide: a partial modulator of AMPA receptor desensitization devoid of neurotoxicity. Impagnatiello F, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7053–8

Parathyroid hormone–related peptide (PTHrP) regulates fetal–placental calcium transport through a receptor distinct from the PTH/PTHrP receptor. Kovacs CS, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15233–8

Adult fast myosin pattern and Ca2+–induced slow myosin pattern in primary skeletal muscle culture. Kubis HP, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4205–10

ECA1 complements yeast mutants defective in Ca2+ pumps and encodes an endoplasmic reticulum–type Ca2+–ATPase in Arabidopsis thaliana. Liang F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8579–84

Compromised mitochondrial function leads to increased cytosolic calcium and to activation of MAP kinases. Luo Y, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2; 94(18):9705–10

Calexcitin: a signaling protein that binds calcium and GTP, inhibits potassium channels, and enhances membrane excitability. Nelson TJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13808–13

Direct modulation of calmodulin targets by the neuronal calcium sensor NCS–1. Schaad NC, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9253–8

Biosynthesis of vitamin B12: factor IV, a new intermediate in the anaerobic pathway. Scott AI, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14316–9

Interactions between two divalent ion binding sites in N–methyl–D–aspartate receptor channels. Sharma G, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14170–5

An endogenous calcium oscillator may control early embryonic division. Swanson CA, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1194–9

Molecular cloning of a peroxisomal Ca2+–dependent member of the mitochondrial carrier superfamily. Weber FE, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8509–14

Suppression of voltage–gated L–type Ca2+ currents by polyunsaturated fatty acids in adult and neonatal rat ventricular myocytes. Xiao YF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4182–7

NO hyperpolarizes pulmonary artery smooth muscle cells and decreases the intracellular Ca2+ concentration by activating voltage–gated K+ channels. Yuan XJ, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10489–94

Feedback inhibition of Ca2+ channels by Ca2+ depends on a short sequence of the C terminus that does not include the Ca2+ –binding function of a motif with similarity to Ca2+ –binding domains. Zhou J, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2301–5

Protein tyrosine phosphorylation in smooth muscle: a potential coupling mechanism between receptor activation and intracellular calcium. Di Salvo J, et al. **Proc Soc Exp Biol Med** 1997 Apr;214(4):285–301 (97 ref.)

Differences in intracellular CA2+ stores of submandibular cells of adult and newborn rats. Martinez JR, et al. **Proc Soc Exp Biol Med** 1997 Mar;214(3):271–9

Characterization of Ca2+ mobilization in the human submandibular duct cell line A253. Zhang GH, et al. **Proc Soc Exp Biol Med** 1997 Oct;216(1):117–24

A hierarchical concept of cellular and subcellular Ca(2+)–signalling. Lipp P, et al. **Prog Biophys Mol Biol** 1996;65(3):265–96 (100 ref.)

Calcium signaling mechanisms in liver in health and disease. Nathanson MH, et al. **Prog Liver Dis** 1996;14:1–27 (184 ref.)

Effect of citalopram on the desensitization of serotonin–2A receptor–mediated calcium mobilization in rat glioma cells. Kagaya A, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):157–66

Mitogen stimulated rise of intracellular calcium concentration in single T lymphocytes from patients with major depression is reduced. Vollmayr B, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1263–73

Prostaglandin E2 increases the calcium concentration in rat brown adipocytes and their consumption of oxygen. Nagai M, et al. **Prostaglandins** 1996 Jun;51(6):377–86

A 5–lipoxygenase inhibitor at micromolar concentration raises intracellular calcium in U937 cells prior to their physiologic cell death. Buyn T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jan; 56(1):69–77

Alteration of in vitro human decidual endothelial cell growth, endothelin–1 and prostaglandin secretion, by growth factors and intracellular calcium. Gallery ED, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jun; 54(6):411–8

Prostaglandin production by guinea–pig endometrial cells: effects of caffeine and other modulators of intracellular calcium. Naderali EK, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 May; 56(5):403–16

12–HETE and 12–HPETE potently stimulate intracellular release of calcium in intact human neutrophils. Reynaud D, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jan;56(1):9–12

Characterization of intracellular calcium mobilization by bombesin–related neuropeptides in PC–3 human prostate cancer cells. Han K, et al. **Prostate** 1997 Apr 1;31(1):53–60

Calcium signaling in prostate cancer cells: evidence for multiple receptors and enhanced sensitivity to bombesin/GRP. Wasilenko WJ, et al. **Prostate** 1997 Feb 15;30(3):167–73

Overexpression, purification, and characterization of recombinant Dictyostelium discoideum calcium–regulated 34,000–dalton F–actin bundling protein from Escherichia coli. Lim RW, et al. **Protein Expr Purif** 1997 Mar; 9(2):182–90

Structural changes in factor VIIa induced by Ca2+ and tissue factor studied using circular dichroism spectroscopy. Freskgård PO, et al. **Protein Sci** 1996 Aug;5(8):1531–40

Cytochrome c3 from Desulfovibrio gigas: crystal structure at 1.8 A resolution and evidence for a specific calcium–binding site. Matias PM, et al. **Protein Sci** 1996 Jul;5(7):1342–54

Interlobe communication in multiple calcium–binding site mutants of Drosophila calmodulin. Mukherjea P, et al. **Protein Sci** 1996 Mar;5(3):468–77

Intermolecular tuning of calmodulin by target peptides and proteins: differential effects on Ca2+ binding and implications for kinase activation. Peersen OB, et al. **Protein Sci** 1997 Apr;6(4):794–807

Crystallization and preliminary diffraction analysis of Ca(2+)–calmodulin–drug and apocalmodulin–drug complexes. Vertessy BG, et al. **Proteins** 1997 May; 28(1):131–4

Serotonin–mediated increase in cytosolic [Ca++] in platelets of risperidone–treated schizophrenia patients. Ereshefsky L, et al. **Psychopharmacol Bull** 1996;32(1):101–6

Functional reconstitution of detergent–solubilized bovine calf testis luteinizing hormone/chorionic gonadotropin receptor into phospholipid vesicles. Grasso P. **Recept Signal Transduct** 1996;6(2):53–62

Ca(2+)–permeability of muscle nicotinic acetylcholine receptor is increased by expression of the epsilon subunit. Cens T, et al. **Receptors Channels** 1997;5(1):29–40

Purine– and pyrimidine nucleotide–stimulated changes in intracellular calcium concentration in cultured astrocytes. Langley D, et al. **Receptors Channels** 1996;4(4):253–9

Characterisation of alpha 1A Ba2+, Sr2+ and Ca2+ currents recorded with the ancillary beta 1–4 subunits. Mangoni ME, et al. **Receptors Channels** 1997;5(1):1–14

The effect of the neurolytic agent ethanol on cytoplasmic calcium in arterial smooth muscle and endothelium. Johnson ME, et al. **Reg Anesth** 1996 Jan–Feb;21(1):6–13

A synthetic peptide representing residues 7 to 21 of human luteinizing hormone beta–subunit binds calcium, facilitates calcium uptake by liposomes and possesses sequence similarity to calcium–binding domains of calmodulin. Grasso P. **Regul Pept** 1996 Sep 9;65(2):109–14

Effects of pancreastatin and somatostatin on secretagogues–induced rise in intracellular free calcium in single rat pancreatic islet cells. Ma HT, et al. **Regul Pept** 1996 Feb 22;61(2):143–8

The role of calcium in the pathogenesis of acute renal failure. Edelstein CL, et al. **Ren Fail** 1997 Mar;19(2):199–207 (73 ref.)

Intracellular calcium in cultured rabbit oviduct epithelial cells. Dickens CJ, et al. **Reprod Fertil Dev** 1996;8(2):243–7

Stimulation of Ca2+ current by phorbol esters in rat myometrial cells is dependent on intracellular Ca2+ concentration. Kusaka M, et al. **Reprod Fertil Dev** 1996; 8(8):1147–52

Developmental changes in Ca(2+)–uptake, Na+,Ca(2+)–exchange and Ca(2+)–ATPase in freshly isolated embryonic, newborn and adult chicken heart. Prakash P, et al. **Reprod Fertil Dev** 1996;8(1):71–8

Inhibitory effects of tetrandrine and hernandezine on Ca2+ mobilization in rat glioma C6 cells. Imoto K, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):129–46

Glycogenolysis stimulation by non–steroidal anti–inflammatories in the perfused rat liver is not accompanied by Ca2+ release. Nascimento EA, et al. **Res Commun Mol Pathol Pharmacol** 1997 May; 96(2):193–201

Mechanisms of oxyradical production in substance P stimulated rheumatoid synovial cells. Tanabe T, et al. **Rheumatol Int** 1996;16(4):159–67

Activation of AMP deaminase in human erythrocytes by calcium ions. Engström I, et al. **Scand J Clin Lab Invest** 1996 Jul;56(4):345–50

The effect of brief illumination on intracellular free calcium concentration in cells with 5–aminolevulinic acid–induced protoporphyrin IX synthesis. Gederaas OA, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):583–9

Effects of dietary fluoride and magnesium supplements on cyclic adenosine monophosphate (cAMP), calcium and magnesium levels in aorta of genetically hypercholesterolaemic RICO rats. Luoma H, et al. **Scand J Clin Lab Invest** 1997 Aug;57(5):421–5

Calcium sensing receptor gene: analysis of polymorphism frequency. Rubin LA, et al. **Scand J Clin Lab Invest Suppl** 1997;227:122–5

A new concept for risk assessment of the hazards of non–genotoxic chemicals––electronmicroscopic studies of the cell surface. Evidence for the action of lipophilic chemicals on the Ca2+ signaling system. Gartzke J, et al. **Sci Total Environ** 1997 Jun 20;199(1–2):213–26

Calmodulin regulation of calcium stores in phototransduction of Drosophila. Arnon A, et al. **Science** 1997 Feb 21; 275(5303):1119–21

Spatially and functionally distinct Ca2+ stores in sarcoplasmic and endoplasmic reticulum. Golovina VA, et al. **Science** 1997 Mar 14;275(5306):1643–8

Defective excitation–contraction coupling in experimental cardiac hypertrophy and heart failure [see comments] Gómez AM, et al. **Science** 1997 May 2;276(5313):800–6. Comment in: Science 1997 May 2;276(5313):755–6.

Elementary calcium–release units induced by inositol trisphosphate. Horne JH, et al. **Science** 1997 Jun 13; 276(5319):1690–3

Calcium waves in retinal glial cells. Newman EA, et al. **Science** 1997 Feb 7;275(5301):844–7

Presynaptic calcium current modulation by a metabotropic glutamate receptor. Takahashi T, et al. **Science** 1996 Oct 25;274(5287):594–7

Quenching the spark in the heart [comment] Yue DT. **Science** 1997 May 2;276(5313):755–6. Comment on: Science 1997 May 2;276(5313):800–6.

Calcium homeostasis and control of contractility in the developing heart. Mahony L. **Semin Perinatol** 1996 Dec; 20(6):510–9 (112 ref.)

Ca2(+)–dependent and Ca2(+)–independent proteinase contents in the skeletal muscle in septic rats. Ahmad S, et al. **Shock** 1996 Apr;5(4):247–50

Ca2+, a regulator of the inflammatory response––the good, the bad, and the possibilities [editorial; comment] Hotchkiss RS, et al. **Shock** 1997 Apr;7(4):308–10 (15 ref.). Comment on: Shock 1997 Apr;7(4):304–7.

Calcium–activated potassium channel–mediated arteriolar relaxation during endotoxic shock. Price JM, et al. **Shock** 1997 Apr;7(4):294–9

Superoxide radical scavenging prevents cellular calcium dysregulation during intraabdominal sepsis. Rose S, et al. **Shock** 1997 Apr;7(4):263–8

Nitric oxide, intracellular calcium overload, and cytotoxicity [editorial; comment] Szabó C. **Shock** 1996 Jul;6(1):25–6 (17 ref.). Comment on: Shock 1996 Jul;6(1):19–24.

Nitric oxide donors increase cytosolic ionized calcium in cultured human intestinal epithelial cells [see comments] Tsuji Y, et al. **Shock** 1996 Jul;6(1):19–24. Comment in: Shock 1996 Jul;6(1):25–6.

Regionally different elevation of intracellular free calcium in hippocampus of septic rat brain. Zhan RZ, et al. **Shock** 1996 Oct;6(4):293–7

Sarcoplasmic reticulum calcium release in frog cut muscle fibers in the presence of a large concentration of EGTA. Jong DS, et al. **Soc Gen Physiol Ser** 1996;51:255–68 (28 ref.)

Regulatory interactions between calcium ATPases and phospholamban. MacLennan DH, et al. **Soc Gen Physiol Ser** 1996;51:89–103 (72 ref.)

Single channel properties and calcium conductance of the cloned expressed ryanodine receptor/calcium–release channel. Ondrias K, et al. **Soc Gen Physiol Ser** 1996; 51:29–45

Impaired calcium regulation in subcortical vascular encephalopathy. Eckert A, et al. **Stroke** 1997 Jul; 28(7):1351–6

Role of extracellular Ca2+ in subarachnoid hemorrhage–induced spasm of the rabbit basilar artery. Zuccarello M, et al. **Stroke** 1996 Oct;27(10):1896–902

Human Hsp70 molecular chaperone binds two calcium ions within the ATPase domain. Sriram M, et al. **Structure** 1997 Mar 15;5(3):403–14

PACAP-38 causes phospholipase C-dependent calcium signaling in rat acinar cell line. Barnhart DC, et al. **Surgery** 1997 Aug;122(2):465–74; discussion 474–5

Changes of adenosine triphosphate-dependent calcium uptake in microsomal fractions of rat liver during sepsis. Hwang TL, et al. **Surgery** 1997 Jun;121(6):662–7

Normal binding of calcium to five fibrinogen variants with mutations in the carboxy terminal part of the gamma-chain. Furlan M, et al. **Thromb Haemost** 1996 Sep;76(3):377–83

Functional consequences of mutations in amino acid residues that stabilize calcium binding to the first epidermal growth factor homology domain of human protein C. Geng JP, et al. **Thromb Haemost** 1996 Nov;76(5):720–8

Ca(2+)-dependent activation of the 33-kDa protein kinase transmits thrombin receptor signals in human platelets. Ido M, et al. **Thromb Haemost** 1996 Sep;76(3):439–43

Enhanced increases in cytosolic Ca2+ in ADP-stimulated platelets from patients with delta-storage pool deficiency--a possible indicator of interactions between granule-bound ADP and the membrane ADP receptor. Lages B, et al. **Thromb Haemost** 1997 Feb;77(2):376–82

Different requirement of intracellular calcium and protein kinase C for arachidonic acid release and serotonin secretion in cathepsin G-activated platelets. Rotondo S, et al. **Thromb Haemost** 1997 Aug;78(2):919–25

Effects of probenecid on platelet aggregation and cytotoxicity: drawbacks of the use of probenecid in monitoring intracellular calcium metabolism. Chung SH, et al. **Thromb Res** 1997 Feb 15;85(4):345–50

Calcium, calmodulin and protein kinase C dependence of platelet shape change. Dandona P, et al. **Thromb Res** 1996 Jan 15;81(2):163–75

Influence of ionized calcium on thrombin-induced down regulation of GPIb/IX receptors on human platelets. Rao GH, et al. **Thromb Res** 1997 Jan 1;85(1):23–31

The Dami cell possesses the platelet collagen receptor VLA-2, but does not mobilize calcium. Strouse RJ, et al. **Thromb Res** 1996 Jun 15;82(6):485–93

C6-ceramide maintains elevated cytosolic calcium levels in activated platelets. Wong K, et al. **Thromb Res** 1996 Jan 15;81(2):219–29

Bone mass, bone turnover, body composition, and calcium homeostasis in former hyperthyroid patients treated by combined medical therapy. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):161–8

Bone mass, bone turnover, calcium homeostasis, and body composition in surgically and radioiodine-treated former hyperthyroid patients. Langdahl BL, et al. **Thyroid** 1996 Jun;6(3):169–75

Depletion of ryanodine-sensitive Ca2+ store activates Ca2+ entry in rat submandibular gland acinar cells. Fukushi Y, et al. **Tohoku J Exp Med** 1996 Apr;178(4):399–411

Use of fura-2/AM to measure intracellular free calcium in Selenomonas ruminantium. Nakamura I, et al. **Tohoku J Exp Med** 1996 Aug;179(4):291–4

Effects of hyperinsulinemia under the euglycemic condition on calcium and phosphate metabolism in non-obese normotensive subjects. Shimamoto K, et al. **Tohoku J Exp Med** 1995 Dec;177(4):271–8

Mechanism of ATP-induced Ca2+ efflux from freshly isolated adult rat cardiomyocytes: possible involvement of Na+/Ca2+ exchange. Hori T, et al. **Tokushima J Exp Med** 1996 Dec;43(3–4):127–34

Role of mitochondria and calcium ions in tributyltin-induced gene regulatory pathways. Corsini E, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):74–81

Toluene disrupts outer hair cell morphometry and intracellular calcium homeostasis in cochlear cells of guinea pigs. Liu Y, et al. **Toxicol Appl Pharmacol** 1997 Feb; 142(2):270–7

The effect of cadmium on cytosolic free calcium, protein kinase C, and collagen synthesis in rat osteosarcoma (ROS 17/2.8) cells. Long GJ. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):189–95

Mechanism of calcium entry during axon injury and degeneration. LoPachin RM, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):233–44 (108 ref.)

Characterization of intracellular calcium responses produced by polycyclic aromatic hydrocarbons in surface marker-defined human peripheral blood mononuclear cells. Mounho BJ, et al. **Toxicol Appl Pharmacol** 1997 Aug; 145(2):323–30

The mechanism for hexachlorocyclohexane-induced cytotoxicity and changes in intracellular Ca2+ homeostasis in cultured cerebellar granule neurons is different for the gamma- and delta-isomers. Rosa R, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):31–9

Disruption of inositol phosphate accumulation in cerebellar granule cells by polychlorinated biphenyls: a consequence of altered Ca2+ homeostasis. Shafer TJ, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):448–55

Altered Ca2+ mobilization during excitation-contraction in cultured cardiac myocytes exposed to antimony. Toraason M, et al. **Toxicol Appl Pharmacol** 1997 Sep;146(1):104–15

Triethyltin interferes with Ca2+ signaling and potentiates norepinephrine release in PC12 cells. Viviani B, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):289–95

The role of intracellular calcium in antimony-induced toxicity in cultured cardiac myocytes. Wey HE, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):202–10

Effects of cadmium on bone: an in vivo model for the early response. Wilson AK, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):68–73

Cadmium perturbs calcium homeostasis in rat osteosarcoma (ROS 17/2.8) cells; a possible role for protein kinase C. Long GJ. **Toxicol Lett** 1997 Apr 28;91(2):91–7

Effect of Leiurus quinquestriatus hebreus venom on calcium and deoxyglucose uptake in cultured cardiac cells. Arie-Saadia G, et al. **Toxicon** 1996 Apr;34(4):435–42

Cyclosporine nephrotoxicity evaluated by tissue calcium deposition and tubular enzymes is prevented by L-propionylcarnitine in isolated perfused rat kidney. Giovannini L, et al. **Transplant Proc** 1996 Dec;28(6):3122–5

Arteritis and increased intracellular calcium as a possible mechanism for tacrolimus-related cardiac toxicity in a pediatric transplant recipient. Atkison PR, et al. **Transplantation** 1997 Sep 15;64(5):773–5

SPRY domains in ryanodine receptors (Ca(2+)-release channels). Ponting C, et al. **Trends Biochem Sci** 1997 Jun; 22(6):193–4

Multiple overlapping processes underlying short-term synaptic enhancement. Fisher SA, et al. **Trends Neurosci** 1997 Apr;20(4):170–7 (124 ref.)

Can Ca2+ be released from secretory granules or synaptic vesicles? Petersen OH. **Trends Neurosci** 1996 Oct; 19(10):411–3 (24 ref.)

A Ca2+ release mechanism gated by the novel pyridine nucleotide, NAADP. Genazzani AA, et al. **Trends Pharmacol Sci** 1997 Apr;18(4):108–10 (22 ref.)

Amyotrophic lateral sclerosis: the involvement of intracellular Ca2+ and protein kinase C. Krieger C, et al. **Trends Pharmacol Sci** 1996 Mar;17(3):114–20 (70 ref.)

Disturbance of cellular calcium homeostasis by in vitro application of shock waves. Suhr D, et al. **Ultrasound Med Biol** 1996;22(5):671–9

Effect of total and ionized calcium levels of seminal fluid on sperm motility. Kiliç S, et al. **Urol Int** 1996;56(4):215–8

Determination of heparan sulphate in kidney tissues of patients with calcium nephrolithiasis. Chan VS, et al. **Urol Res** 1995;23(5):339–42

Pathophysiology of calcium, phosphorus, and magnesium metabolism in animals. Rosol TJ, et al. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1155–84 (127 ref.)

Influence of 3,4-dihydroxybenzoic acid on metal ion concentrations in guinea pig tissues after copper intoxication. Kotsaki-Kovatsi VP, et al. **Vet Hum Toxicol** 1997 Aug;39(4):211–4

Induction of apoptosis by calmodulin-dependent intracellular Ca2+ elevation in CD4+ cells expressing gp 160 of HIV. Sasaki M, et al. **Virology** 1996 Oct 1;224(1):18–24

Characterization of a calcium binding domain in the VP1 protein of the avian polyomavirus, budgerigar fledgling disease virus. Rodgers RE, et al. **Virus Res** 1996 Oct; 44(2):123–35

Neurotensin induces calcium oscillations in cultured amacrine cells. Borges S, et al. **Vis Neurosci** 1996 Mar-Apr; 13(2):311–8

Calcium homeostasis in photoreceptor cells of Drosophila mutants inaC and trp studied with the pupil mechanism. Hofstee CA, et al. **Vis Neurosci** 1996 Mar-Apr;13(2):257–63

GABA-induced increases in [Ca2+]i in retinal neurons of postnatal rabbits. Huang BO, et al. **Vis Neurosci** 1996 May-Jun;13(3):441–7

Effects of glutamate and its analogs on intracellular calcium levels in the developing retina. Wong RO. **Vis Neurosci** 1995 Sep-Oct;12(5):907–17

[Ca2+]i regulation by glutamate receptor agonists in cultured chick retina cells. Duarte CB, et al. **Vision Res** 1996 Apr; 36(8):1091–102

Horizontal cells feed back to cones by shifting the cone calcium-current activation range. Verweij J, et al. **Vision Res** 1996 Dec;36(24):3943–53

Characteristics of Ca2+ release mechanisms from an intracellular Ca2+ store in rabbit coronary artery. Lee YH, et al. **Yonsei Med J** 1996 Feb;37(1):38–46

Changes in intracellular Ca2+ concentration of rabbit coronary artery smooth muscle cell during ischemic cardioplegic period. Lee YH, et al. **Yonsei Med J** 1996 Aug;37(4):251–61

Ca2+ uptake coupled to glycogen phosphorolysis in the glycogenolytic-sarcoplasmic reticulum complex from rat skeletal muscle. Nogues M, et al. **Z Naturforsch [C]** 1996 Jul-Aug;51(7–8):591–8

The light-stimulated cytosolic calcium transient in Limulus ventral nerve photoreceptors: two components in the rising phase. Stommel G, et al. **Z Naturforsch [C]** 1996 Jan-Feb; 51(1–2):101–12

Different calcium-dependent pathways control fertilisation-triggered glycoside release and the cortical contraction in ascidian eggs. McDougall A, et al. **Zygote** 1995 Aug;3(3):251–8

Calcium influx, fertilisation potential and egg activation in Fucus serratus. Roberts S, et al. **Zygote** 1995 Aug; 3(3):191–7

Calcium- and meiotic-spindle-independent activation of pig oocytes by the inhibition of staurosporine-sensitive protein kinases. Wang W, et al. **Zygote** 1997 Feb;5(1):75–82

[Changes in free calcium concentration and protein kinase C activity in activated T cells of burn mice and their significance] Liang H, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):262–5 (Eng. Abstr.) **(Chi)**

[Measurement of Ca2+ concentration and endocochlear potential in experimental endolymphatic hydrops in vivo] Zhang S, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(5):276–8 (Eng. Abstr.) **(Chi)**

[Regional brain calcium change in rabbit cerebral ischemia] Gu W, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct; 76(10):771–3 (Eng. Abstr.) **(Chi)**

[In vitro culture of neonatal mouse calvaria as a model for study of bone resorption] Zhang WZ, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan; 31(1):48–50 (Eng. Abstr.) **(Chi)**

[Hormones and apoptosis] Liu J, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):712–5 (18 ref.) **(Chi)**

[A study on cAMP and Ca-CaM of the epithelium in human normal and cataractous lenses] Liu X, et al. **Chung Hua Yen Ko Tsa Chih** 1996 Mar;32(2):107–9 (Eng. Abstr.) **(Chi)**

[Changes in calcium uptake and Ca(2+)-ATPase activity of cardiac sarcoplasmic reticulum in rat associated with hypoxia of various degrees] Sun X, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Feb; 18(1):38–42 (Eng. Abstr.) **(Chi)**

[The role of Ca2+ in the pathogenesis of human pituitary GH-secreting adenomas] Yin J, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Feb; 18(1):23–8 (Eng. Abstr.) **(Chi)**

[Experimental analysis of the calcium source for cardiac excitation-contraction coupling in hibernator Citellus dauricus] Wang SQ, et al. **Sheng Li Hsueh Pao** 1995 Dec; 47(6):551–8 (Eng. Abstr.) **(Chi)**

[Effects of some physical and chemical factors on CGRP release from mesenteric arterial bed] Wu ZX, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):573–9 (Eng. Abstr.) **(Chi)**

[Development of calcium fluorescent probes and their application in life sciences] Zhang CL, et al. **Sheng Li Ko Hsueh Chin Chan** 1996 Jan;27(1):37–42 (19 ref.) (Eng. Abstr.) **(Chi)**

[Mechanism of action of ginsenoside Rb1 in decreasing intracellular Ca2+] Jiang XY, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):321–6 (Eng. Abstr.) **(Chi)**

[Effect of dl-3-n-butylphthalide on delayed neuronal damage after focal cerebral ischemia and intrasynaptosomes calcium in rats] Lin JF, et al. **Yao Hsueh Hsueh Pao** 1996; 31(3):166–70 (Eng. Abstr.) **(Chi)**

[The calcium tolerance test in thyrotoxicosis, Hashimoto's thyroiditis and after total thyroidectomy] Blahoš J, et al. **Vnitr Lek** 1996 Sep;42(9):597–601 (Eng. Abstr.) **(Cze)**

[Biological exploration of phosphorus calcium metabolism in children] Mallet E. **Arch Pediatr** 1997;4(2 Suppl 2):82s–85s **(Fre)**

[Calcium transport in microsomes isolated from rat parotid gland. Effects of ADP and an ATP-regenerating system.] Eboué D, et al. **Arch Physiol Biochem** 1996 Dec; 104(7):826–32 (Eng. Abstr.) **(Fre)**

[Low intensity electromagnetic fields produce a wave of calcium in the fibroblasts] Bomans J, et al. **Bull Mem Acad R Med Belg** 1996;151(3–4):243–9; discussion 250–2 (Eng. Abstr.) **(Fre)**

[Na/Ca exchange] Herchuelz A. **Bull Mem Acad R Med Belg** 1996;151(1):125–31; discussion 131–4 (Eng. Abstr.) **(Fre)**

[Calcium signal and contraction] Sauvadet A, et al. **C R Seances Soc Biol Fil** 1996;190(2–3):243–53 (24 ref.) (Eng. Abstr.) **(Fre)**

[Normal phosphorus and calcium metabolism during pregnancy and breast feeding] Koeger AC, et al. **Rev Med Interne** 1997 Jul;18(7):533–45 (30 ref.) (Eng. Abstr.) **(Fre)**

[Pathological phosphorus and calcium metabolism during pregnancy and breast feeding] Koeger AC, et al. **Rev Med Interne** 1997 Jul;18(7):546–52 (36 ref.) (Eng. Abstr.) **(Fre)**

[Altered calcium homeostasis in chronic heart failure] Erdmann E, et al. **Z Kardiol** 1996;85 Suppl 6:123–28 (21 ref.) (Eng. Abstr.) **(Ger)**

[Calcium release from the mineral matrix of the mandibular bone due to hydrogen peroxide exposure] Avitabile M, et al. **Minerva Stomatol** 1996 Sep;45(9):401–3 (Eng. Abstr.) **(Ita)**

[Experimental study on the pathogenesis of mitral annular calcification: calcium deposits in mitral complex lesions induced by vagal stimulation in rabbits] Ashida T, et al. **J Cardiol** 1997;29 Suppl 2:13–7 (Eng. Abstr.) **(Jpn)**

[Modulation of A-type calcium independent transient outward potassium current by fatty acids in guinea pig single smooth muscle cell] Nagano N, et al. **J Smooth Muscle Res** 1995 Dec;31(6):403–4 **(Jpn)**

[Effects of the number of carbon atoms of alcohols on the Ca(2+)-related functions of skinned skeletal muscle fibers from the guinea pigs] Nakajima T. **Masui** 1996 Nov; 45(11):1347–53 (Eng. Abstr.) **(Jpn)**

[Effect of amiloride on the early and late stage of postischemic recovery in isolated perfused rat hearts--possible involvement of Na+/H+ and Na+/Ca2+ exchange] Yoshizumi M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1735–41 (Eng. Abstr.) **(Jpn)**

[Effect of heparin on the increase in intracellular calcium caused by inositol 1,4,5-triphosphate in airway epithelial

cells] Kondo M, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 Feb;35(2):173–8 (Eng. Abstr.) **(Jpn)**

[Calcium metabolism and osteoporosis] Matsumoto T.
Nippon Naika Gakkai Zasshi 1997 Mar 10;86(3):380–4 (15 ref.) **(Jpn)**

[Oscillatory changes in the intracellular Ca2+ concentration in cardiac muscles] Komukai K, et al. **Nippon Rinsho** 1996 Aug;54(8):2045–9 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Na+ –Ca2+ exchanger] Matsuda T, et al.
Nippon Rinsho 1996 Mar;54(3):612–7 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Changes in bone mineral content and bone metabolism during pregnancy and puerperium] Manabe M, et al.
Nippon Sanka Fujinka Gakkai Zasshi 1996 Jun; 48(6):399–404 (Eng. Abstr.) **(Jpn)**

[Similarities in calcium and magnesium metabolism between amyotrophic lateral sclerosis and calcification of the spinal cord in the Kii Peninsula ALS focus] Yasui M, et al.
No To Shinkei 1997 Aug;49(8):745–51 (Eng. Abstr.) **(Jpn)**

[Cross-point of cAMP and Ca2+ signals to the transcription factors] Hagiwara M, et al.
Tanpakushitsu Kakusan Koso 1996 Jun;41(8 Suppl):1282–7 (18 ref.) **(Jpn)**

[Imaging of calcium signaling in brain glial cells and adrenocortical cells] Kawato S, et al.
Tanpakushitsu Kakusan Koso 1997 May;42(7 Suppl):1227–32 (7 ref.) **(Jpn)**

[Observation of intracellular calcium kinetics with confocal laser scanning microscope] Yokoyama K, et al.
Tanpakushitsu Kakusan Koso 1997 May;42(7 Suppl):1221–6 (14 ref.) **(Jpn)**

[New intracellular calcium antagonists. I. Synthesis and pharmacological evaluation of 2,3,4,5-tetrahydro-1,5-benzothiazepine analogs] Ueyama N, et al. **Yakugaku Zasshi** 1996 Feb;116(2):106–24 (Eng. Abstr.) **(Jpn)**

[Calcium, phosphorus and magnesium in pregnant women with primary hypertension] Smolarczyk R, et al.
Ginekol Pol 1997 Jan;68(1):6–10 (Eng. Abstr.) **(Pol)**

[Calcium–phosphorus–magnesium homeostasis in women with threatened abortion] Smolarczyk R, et al.
Ginekol Pol 1997 Jan;68(1):11–6 (Eng. Abstr.) **(Pol)**

[Calcium oscillations and waves in a cell] Makowska A, et al. **Postepy Biochem** 1996;42(2):146–53 (54 ref.) **(Pol)**

[Regulation of intracellular Ca2+ concentration in non excitable cells] Niewczas B. **Postepy Biochem** 1995; 41(4):283–9 (79 ref.) **(Pol)**

[Effect of physical load deficiency on the system of calcium transport in the sarcoplasmic reticulum of skeletal muscles amd myocardium] Stepanova VV, et al.
Aviakosm Ekolog Med 1996;30(5):33–5 (24 ref.) (Eng. Abstr.) **(Rus)**

[The defining role of calcium entering cells during ischemia as the mechanism for initiating reperfusion arrhythmias] Burashnikov AIu, et al. **Biofizika** 1997 Mar–Apr; 42(2):508–15 (Eng. Abstr.) **(Rus)**

[Effect of acidosis on membrane potential and calcium transport in rat brain synaptosomes] Fedorovich SV, et al. **Biofizika** 1997 Mar–Apr;42(2):412–6 (Eng. Abstr.) **(Rus)**

[Digitonin-sensitive calcium pool and its change during synchronous division of Tetrahymena pyriformis cells] Iorkov IS, et al. **Biofizika** 1997 Mar–Apr;42(2):449–54 (Eng. Abstr.) **(Rus)**

[The role of nonspecific troponin in kinetics of intracellular calcium in cardiomyocytes] Solov'eva OE, et al.
Biofizika 1997 Mar–Apr;42(2):431–8 (Eng. Abstr.) **(Rus)**

[Inhibitors of the ADP/ATP antiporter induce two Ca2+-dependent uncoupling systems in rat liver mitochondria] Mikhallova LM, et al. **Biokhimiia** 1996 Jul; 61(7):1270–8 (Eng. Abstr.) **(Rus)**

[Two components of sodium-azide insensitive Mg2+,ATP-dependent Ca2+ transport in ureteral smooth muscle membrane structures] Prishchepa LA, et al.
Biokhimiia 1996 Jul;61(7):1250–6 (Eng. Abstr.) **(Rus)**

[Ruthenium red inhibits energy-dependent and passive Ca2+ transport in permeabilized smooth muscle cells] Shinlova OP, et al. **Biokhimiia** 1996 Aug;61(8):1440–7 (Eng. Abstr.) **(Rus)**

[Anti-idiotypic monoclonal antibodies against latrotoxin interact with rat brain synaptosomes and modify latrotoxin-induced calcium entry into synaptosomes] Pashkov VN, et al. **Bioorg Khim** 1996 Jun;22(6):403–7 (Eng. Abstr.) **(Rus)**

[Correlation of inhibition of thrombocyte light chain myosin phosphorylation and thrombocyte aggregation by the new calcium and calmodulin antagonist] Aleksanian AR, et al.
Biull Eksp Biol Med 1996 Jul;122(7):40–2 **(Rus)**

[A study of the mechanism of the effect of new cardiotonic agent sufan on calcium exchange in cardiomyocytes] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):57–9 **(Rus)**

[Comparative study of the effect of isoproterenol and sufan on the concentration of free calcium ions in isolated cardiomyocytes] Galenko-Iaroshevskiĭ PA, et al.
Biull Eksp Biol Med 1996 Aug;122(8):170–2 **(Rus)**

[Mechanisms of histamine-induced raise in calcium levels in cardiomyocytes; relative effectiveness of histamine receptors blockers] Khankoeva AI, et al.
Biull Eksp Biol Med 1997 Apr;123(4):414–6 **(Rus)**

[Role of intracellular signal systems in regulation of erythrocytes potassium channels activated by Ca2+] Petrova IV, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):653–5 **(Rus)**

[Toxic effect of glutamate on cultured cerebellar granular cells reduces the intracellular level of ATP. The role of Ca2+ ions] Pinelis VG, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):162–4 **(Rus)**

[Opposite effects of adaptation to physical exertion on the myocardium and skeletal muscle. Ca-transporting system of the sarcoplasmic reticulum and the enzymes of the antioxidant defense] Sazontova TG, et al.
Biull Eksp Biol Med 1996 Jun;121(6):623–8 **(Rus)**

[Early stages in mechanisms of glucocorticoids action on human thrombocytes: effect of hydrocortisone on intracellular cAMP and Ca2+] Sergeev PV, et al.
Biull Eksp Biol Med 1997 Jun;123(6):663–5 **(Rus)**

[Stimulating effect of ADP on the calcium ion transport system in yeast mitochondria] Bazhenova EN, et al.
Dokl Akad Nauk 1997 Apr;353(4):550–2 **(Rus)**

[Disruption of plasma cell membrane permeability for Ca2+ ions in radiation-induced apoptosis of thymocytes] Shevchenko AS, et al. **Dokl Akad Nauk** 1997 Mar; 353(2):284–6 **(Rus)**

[The effect of verapamil on changes in the Ca2+ content of the intracellular structures of organs during acute myocardial ischemia] Dzhanpoladian EG, et al.
Eksp Klin Farmakol 1996 Sep–Oct;59(5):21–2 (Eng. Abstr.) **(Rus)**

[The protective action of adenosine in the development of the "calcium paradox" in the isolated heart] Alabovskiĭ VV, et al. **Fiziol Zh** 1997;43(3–4):48–53 (Eng. Abstr.) **(Rus)**

[Ca2(+)-dependent glucose absorption in the small intestine of rats under head-down tilt stress] Sheptitskiĭ VA, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):125–30 (Eng. Abstr.) **(Rus)**

[Changes in calcium metabolism in osteoarthrosis in miners] Siniachenko OV, et al. **Med Tr Prom Ekol** 1996;(7):33–5 (Eng. Abstr.) **(Rus)**

[Effects of a permanent magnetic field on 45Ca2+ ion influx in excitable and inexcitable cells and proliferative activity of rat spleen cells] Garibova LS, et al.
Radiats Biol Radioecol 1996 Sep–Oct;36(5):718–21 (Eng. Abstr.) **(Rus)**

[The effect of glucocorticoids on mineral metabolism in bronchial asthma patients] Emel'ianov AV, et al.
Ter Arkh 1995;67(12):31–3 (Eng. Abstr.) **(Rus)**

[Effect of tyrosine kinase and tyrosine phosphatase inhibitors on ATP- and thapsigargin-induced CA2+ entry in rat peritoneal macrophages] Krutetskaia ZI, et al.
Tsitologiia 1997;39(2–3):164–76 (Eng. Abstr.) **(Rus)**

[Ca2+ ion transport in the sarcoplasmic reticulum of the gastrocnemius muscles of white rats under treatment of the sciatic nerve with a colchicine solution] Brazaluk AZ, et al. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):114–9 (Eng. Abstr.) **(Rus)**

[Ca(2+)-phospholipid-dependent protein kinases and their role in regulating metabolic processes] Ostapchenko LI. **Ukr Biokhim Zh** 1995 Nov–Dec;67(6):3–11 (84 ref.) (Eng. Abstr.) **(Rus)**

[Role of sodium ions in the protective action of nucleotides and their hydrolytic products in calcium paradox] Alabovskiĭ VV, et al. **Vestn Ross Akad Med Nauk** 1996; (5):45–51 (Eng. Abstr.) **(Rus)**

[Relation between the energy state and permeability of cardiomyocyte sarcolemma during "calcium paradox" and activity of glycolysis] Alabovskiĭ VV, et al.
Vopr Med Khim 1997 Jan–Feb;43(1):29–33 (Eng. Abstr.) **(Rus)**

[Coupling of calcium homeostasis and lipid peroxidation in mechanisms of bronchial hyperreactivity in patients with bronchial asthma] Amatuni VG, et al. **Vopr Med Khim** 1996 Oct–Dec;42(4):314–8 (Eng. Abstr.) **(Rus)**

[Disorders of phosphate, calcium and magnesium ion metabolism in chronic renal insufficiency] Poskurica M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:101–4 (Eng. Abstr.) **(Scc)**

[The effect of alphacalcidol on calcium and phosphate metabolism in patients treated with hemodialysis] Veljković S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:117–8 (Eng. Abstr.) **(Scc)**

[Thiazide diuretics and calcium metabolism: role in renal lithiasis and osteoporosis] Suárez Fernández C, et al.
An Med Interna 1996 Aug;13(8):401–6 (52 ref.) (Eng. Abstr.) **(Spa)**

[Insulin resistance, calcium cell metabolism, and essential arterial hypertension. Role of skeletal muscle] Sánchez M, et al. **Med Clin (Barc)** 1996 Jun 15;107(3):102–6 (62 ref.) **(Spa)**

[Regulation of calcium and phosphorus metabolism] Burrows R. **Rev Med Chil** 1996 Aug;124(8 Suppl):9–14 (15 ref.) **(Spa)**

[Calcium requirements] Leiva L, et al. **Rev Med Chil** 1996 Aug;124(8 Suppl):29–34 (20 ref.) **(Spa)**

PHARMACOKINETICS

The effects of ketamine on Ca2+ movements in A7r5 vascular smooth muscle cells. Kanmura Y, et al.
Anesth Analg 1996 Nov;83(5):1105–9

Ca2+ binding and translocating properties of diflunisal. Neigh GS, et al. **Biochem Mol Biol Int** 1996 May; 39(1):53–61

The response to calcitriol therapy in postmenopausal osteoporotic women is a function of initial calcium absorptive status. Need AG, et al. **Calcif Tissue Int** 1997 Jul;61(1):6–9

Glutathione plays a role in the chick intestinal calcium absorption. Tolosa de Talamoni N, et al.
Comp Biochem Physiol A Physiol 1996 Oct;115(2):127–32

Acute effect of prolactin on bone 45Ca accumulation in rats. Krishnamra N, et al. **Endocr J** 1997 Apr;44(2):257–64

Bioavailability of calcium and magnesium. Schaafsma G.
Eur J Clin Nutr 1997 Jan;51 Suppl 1:S13–6 (26 ref.)

Calcium permeability in large unilamellar vesicles prepared from bovine lens cortical lipids. Zeng J, et al.
Exp Eye Res 1997 Jan;64(1):115–20

The effects of ryanodine on calcium uptake by the sarcoplasmic reticulum of ischemic and reperfused rat myocardium. Mubagwa K, et al.
Fundam Clin Pharmacol 1997;11(4):315–21

Ca(2+)-transport across brush border and basal surfaces of human term [correction of terms] placenta. Anand RJ, et al. **Indian J Exp Biol** 1996 Aug;34(8):786–93

Effect of dietary rhubarb stalk fiber on the bioavailability of calcium in rats. Goel V, et al. **Int J Food Sci Nutr** 1996 Mar;47(2):159–63

The influence of different food components on the in vitro availability of iron, zinc and calcium from a composed meal. Van Dyck K, et al. **Int J Food Sci Nutr** 1996 Nov; 47(6):499–506

Effectiveness of Natuphos phytase in improving the bioavailabilities of phosphorus and other nutrients in soybean meal-based semipurified diets for young pigs. Yi Z, et al. **J Anim Sci** 1996 Jul;74(7):1601–11

Duodenal active calcium transport in female rats increases with serum calcitriol concentrations, but reaches a plateau far below maximal calcitriol levels. Boass A, et al.
J Bone Miner Res 1996 Nov;11(11):1640–5

Expression of TRPC3 in Chinese hamster ovary cells results in calcium-activated cation currents not related to store depletion. Zitt C, et al. **J Cell Biol** 1997 Sep 22; 138(6):1333–41

Changes in calcium kinetics associated with menarche. Abrams SA, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2017–20

Calcium kinetics with microgram stable isotope doses and saliva sampling. Smith SM, et al. **J Mass Spectrom** 1996 Nov;31(11):1265–70

Altered cardiac mechanism and sarcoplasmic reticulum function in pressure overload-induced cardiac hypertrophy in rats. Ohkusa T, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):45–54

Involvement of protein kinase C in nerve growth factor- and K-252a-stimulated calcium uptake into PC12 cells. Dickens G, et al. **J Neurosci Res** 1997 Feb 1;47(3):271–6

Casein phosphopeptides improve zinc and calcium absorption from rice-based but not from whole-grain infant cereal. Hansen M, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan; 24(1):56–62

Pharmacology of a capacitative Ca2+ entry in Xenopus oocytes. Gillo B, et al. **J Photochem Photobiol B** 1996 Aug; 35(1–2):77–82

Effect of calcitonin on calcium transport by the luminal and basolateral membranes of the rabbit nephron. Zuo Q, et al. **Kidney Int** 1997 Jun;51(6):1991–9

Stimulation by citric acid of calcium and phosphorus bioavailability in rats fed a calcium-rich diet. Lacour B, et al. **Miner Electrolyte Metab** 1997;23(2):79–87

Intestinal calcium absorption from mineral water. Wynckel A, et al. **Miner Electrolyte Metab** 1997;23(2):88–92

Blockade of DNA synthesis induced by platelet-derived growth factor by tranilast, an inhibitor of calcium entry, in vascular smooth muscle cells. Nie L, et al.
Mol Pharmacol 1996 Oct;50(4):763–9

Effects of glutamate receptor agonists and antagonists on Ca2+ uptake in rat hippocampal slices lesioned by glucose deprivation or by kainate. Alici K, et al. **Neuroscience** 1997 Mar;77(1):97–109

Absorption of calcium, zinc, and iron from breast milk by five- to seven-month-old infants [published erratum appears in Pediatr Res 1997 Jun;41(6):814] Abrams SA, et al. **Pediatr Res** 1997 Mar;41(3):384–90

Calcium and magnesium transport in the cortical thick ascending limb of Henle's loop: influence of age and gender. Wittner M, et al. **Pflugers Arch** 1997 Aug; 434(4):451–6

A fractal approach to heterogeneous drug distribution: calcium pharmacokinetics. Macheras P. **Pharm Res** 1996 May;13(5):663–70

Protein quality and calcium availability from extruded and autoclaved turkey hatchery residue. Lilburn MS, et al.
Poult Sci 1997 Jun;76(6):841–8

The effects of supplemental microbial phytase on the performance and utilization of dietary calcium, phosphorus, copper, and zinc in broiler chickens fed corn–soybean diets. Sebastian S, et al. **Poult Sci** 1996 Jun;75(6):729–36

[Metabolism and utilization of calcium derived from hydrolysed oyster shell in rats] Shen X, et al.
Chung Hua Yu Fang I Hsueh Tsa Chih 1996 Mar;30(2):91–3 (Eng. Abstr.) **(Chi)**

[45Ca kinetics and calcium balance studies. A useful method for analyzing calcium movement as a whole throughout the entire body in rats] Morohashi T, et al.
Nippon Yakurigaku Zasshi 1997 Jun;109(6):271–8 (Eng.

Abstr.) (Jpn)

PHARMACOLOGY

Na+ and Ca2+ cooperatively down regulate the A-type potassium currents in Helix neurons. Erdélyi L. **Acta Biol Hung** 1995;46(2-4):417-25

Effects of ovarian hormone treatment on Ca(2+)-induced contractions and Ca(2+)-antagonism in the depolarized rat myometrium. Zeitune MG, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(1):41-7

Splitting of connectin/titin filaments into beta-connectin/T2 and a 1,200-kDa subfragment by 0.1 mM calcium ions. Tatsumi R, et al. **Adv Biophys** 1996;33:65-77

Calcium-dependent O2 sensitivity of cat carotid body. Buerk DG, et al. **Adv Exp Med Biol** 1997;411:1-5

Calcium-induced neuronal cell death in vivo and in vitro: are the pathophysiologic mechanisms different? Kristián T, et al. **Adv Neurol** 1996;71:107-113; discussion 113-8

The calcium-activated protease calpain I and ischemia-induced neurodegeneration. Siman R, et al. **Adv Neurol** 1996;71:167-74; discussion 174-5

Calcium and phosphorus supplementation of iron-fortified infant formula: no effect on iron status of healthy full-term infants. Dalton MA, et al. **Am J Clin Nutr** 1997 Apr; 65(4):921-6

Nutritional effect of calcium supplementation by skim milk powder or calcium tablets on total nutrient intake in postmenopausal women [see comments] Devine A, et al. **Am J Clin Nutr** 1996 Nov;64(5):731-7. Comment in: Am J Clin Nutr 1996 Nov;64(5):791-2.

Halothane reduces myofilament Ca2+ sensitivity during muscarinic receptor stimulation of airway smooth muscle. Akao M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L719-25

Role of calcium-activated potassium channels and cyclic nucleotides on pulmonary vasoreactivity to serotonin. Barman SA. **Am J Physiol** 1997 Jul;273(1 Pt 1):L142-7

Calcium-activated chloride currents in primary cultures of rabbit distal convoluted tubule. Bidet M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F940-50

Phospholipase D activity facilitates Ca2+-induced aggregation and fusion of complex liposomes. Blackwood RA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1279-85

Activator calcium and myocardial contractility in fetal sheep exposed to long-term high-altitude hypoxia. Browne VA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1196-204

Ca(2+)-inhibitable adenylyl cyclase and pulmonary microvascular permeability. Chetham PM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L22-30

Ca(2+)-activated K+ channels regulate action potential repolarization in urinary bladder smooth muscle. Heppner TJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C110-7

Ca(2+)-induced inhibition of 45Ca2+ influx and Ca2+ current in smooth muscle of the rat vas deferens. Khoyi MA, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1468-77

Modulation of high- and low-voltage-activated calcium currents in smooth muscle by calcium. McCarron JG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C883-92

Contribution of actin cytoskeletal alterations to ATP depletion and calcium-induced proximal tubule cell injury. Nurko S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F39-52

MgATP acts before Ca2+ to prime amylase secretion from permeabilized rat pancreatic acini. Padfield PJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G655-60

Substrate specific effects of calcium on metabolism of rat heart mitochondria. Panov AV, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1398-406

Inhibitory effect of Ca2+ on renin secretion elicited by chemiosmotic stimuli through actomyosin mediation. Park CS, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C248-54

Functional activity of Ca2+-dependent K+ channels is increased in basilar artery during chronic hypertension. Paternò R, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1287-91

Possible thiol group involvement in intracellular pH effect on low-conductance Ca(2+)-dependent K+ channels. Riquelme G, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C230-8

Inward rectifier K+ currents in smooth muscle cells from rat coronary arteries: block by Mg2+, Ca2+, and Ba2+. Robertson BE, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H696-705

Calcium-and phorbol ester-dependent calponin phosphorylation in homogenates of swine carotid artery. Rokolya A, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H776-83

Mechanism of activation by cGMP-dependent protein kinase of large Ca(2+)-activated K+ channels in mesangial cells. Stockand JD, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1669-77

Phospholipase A2 is involved in mediating the effect of extracellular Ca2+ on apical K+ channels in rat TAL. Wang W, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F421-9

Propagated calcium modulates the calcium-dependent potassium current by the activation of GABAB receptor at the axonal branch in the type B photoreceptor of Hermissenda. Sakakibara M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:492-5

Exposure of human sperm to low-calcium medium enhances fertilizing ability. Nishida S, et al. **Arch Androl** 1996 Mar-Apr;36(2):145-53

Immunological analysis of two calpain-like Ca2+-dependent proteinases from lobster striated muscles: relationship to mammalian and Drosophila calpains. Beyette JR, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):232-8

Ca2+ activation of wheat peroxidase: a possible physiological mechanism of control. Converso DA, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):59-65

Ca(2+)- and Al(3+)-induced conformational transitions of amyloid fragment H-Ile-Ile-Gly-Leu-Met-NH2. Laczkó I, et al. **Arch Biochem Biophys** 1996 Nov 15;335(2):381-7

Effect of calcium on the reversible thermal inactivation of lignin peroxidase. Nie G, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):225-31

EGF receptor expression and growth of psoriatic and normal human keratinocytes are modulated by 1.25 (OH)2-vitamin D3 ex vivo. Boisseau-Garsaud AM, et al. **Arch Dermatol Res** 1996 Jul;288(8):453-7

Zinc: interference with the calcium function in Entamoeba histolytica. Vega-Robledo GB, et al. **Arch Med Res** 1997; 28 Spec No:110-2

Relationship between heart function and energy production. A study on isolated rat heart. Poizat C, et al. **Arch Physiol Biochem** 1996;104(1):71-80

Effect of temperature on the contractile response of isolated rat small intestine to acetylcholine and KCl: calcium dependence. Sabeur G. **Arch Physiol Biochem** 1996; 104(2):220-8

In vitro studies of the loss of antibacterial activity of oxytetracycline in presence of Ca(II) or Mg(II) ions. Naz S, et al. **Arzneimittelforschung** 1996 Jul;46(7):701-4

Calcium-dependent inactivation of neuronal nitric oxide synthase: evidence for the existence of stabilization / activation factor. Hori H, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):476-80

Effect of Ca2+ on the secondary structure of linear and cyclic collagen sequence analogs. Likó Z, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):351-9

Decreased ATP-induced synthesis and Ca(2+)-stimulated degradation of polyphosphoinositides in pancreatic islets from neonatally streptozotocin-diabetic rats. Morin L, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):573-8

A calcium-dependent nitric oxide synthase and NMDA R1 glutamate receptor in the ink gland of Sepia officinalis: a hint to a regulatory role of nitric oxide in melanogenesis? Palumbo A, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):429-32

L-type Ca2+ channel-insulin-like growth factor-1 receptor signaling impairment in aging rat skeletal muscle. Renganathan M, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):784-9

Presence of Ca(2+)-sensitive and -insensitive SM22 alpha isoproteins in bovine aorta. Shishibori T, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):225-30

Cyclosporin A enhances the calcium-dependent induction of AP-1 complex and c-fos mRNA in a T cell lymphoma. Su Q, et al. **Biochem Biophys Res Commun** 1996 Dec 4; 229(1):249-56

Differential regulation of extracellular signal-regulated protein kinase 1 and Jun N-terminal kinase 1 by Ca2+ and protein kinase C in endothelin-stimulated Rat-1 cells. Cadwallader K, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):795-804

Regulation of pancreatic beta-cell mitochondrial metabolism: influence of Ca2+, substrate and ADP. Civelek VN, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):615-21

Three spinach leaf nitrate reductase-3-hydroxy-3-methylglutaryl-CoA reductase kinases that are required by reversible phosphorylation and/or Ca2+ ions. Douglas P, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):101-9

Ca2+-dependent interaction of the growth-associated protein GAP-43 with the synaptic core complex. Haruta T, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):455-63

Inhibition of insulin release by synthetic peptides shows that the H3 region at the C-terminal domain of syntaxin-1 is crucial for Ca(2+)- but not for guanosine 5'-[gamma-thio]triphosphate-induced secretion. Martin F, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):201-5

Ca2+ stimulates both the respiratory and phosphorylation subsystems in rat heart mitochondria. Mildazien V, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):329-34

Tyrosine phosphorylation of band 3 protein in Ca2+/A23187-treated human erythrocytes. Minetti G, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):445-50

Elevated intracellular calcium concentration increases secretory processing of the amyloid precursor protein by a tyrosine phosphorylation-dependent mechanism. Petryniak MA, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):957-63

Ca2+ differentially regulates the ligand-affinity states of type 1 and type 3 inositol 1,4,5-trisphosphate receptors. Yoneshima H, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):591-6

Activation of the intracellular Ca(2+)-dependent serine protease ISP1 of bacillus megaterium by purification or by high Ca2+ concentrations. Váchová L. **Biochem Mol Biol Int** 1996 Nov;40(5):947-54

The role of calcium in the artificially induced decidual cell reaction in pseudopregnant mice. Sakoff JA, et al. **Biochem Mol Med** 1996 Apr;57(2):81-90

Effects of calcium on brazilin-induced glucose transport in isolated rat epididymal adipocytes. Khil LY, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):97-101

Compartmentalisation and characteristics of a Ca2+-dependent phospholipase A2 in human colon mucosa. Lamura E, et al. **Biochem Pharmacol** 1997 May 9;53(9):1323-32

Gö 6976: an inhibitor of Ca2+/DAG-dependent protein kinase C isoforms in islets of Langerhans. Harris TE, et al. **Biochem Soc Trans** 1997 Feb;25(1):118S

Calcium induces binding and formation of a spin-coupled dimanganese(II,II) center in the apo-water oxidation complex of photosystem II as precursor to the functional tetra-Mn/Ca cluster. Ananyev GM, et al. **Biochemistry** 1997 Sep 23;36(38):11342-50

Identification and isolation of a 45-kDa calcium-dependent lactoferrin receptor from rat hepatocytes. Bennatt DJ, et al. **Biochemistry** 1997 Jul 8;36(27):8359-66

[125I]Iberiotoxin-D19Y/Y36F, the first selective, high specific activity radioligand for high-conductance calcium-activated potassium channels. Koschak A, et al. **Biochemistry** 1997 Feb 18;36(7):1943-52

Ca2+ regulates calmodulin binding to IQ motifs in IRS-1. Munshi HG, et al. **Biochemistry** 1996 Dec 10; 35(49):15883-9

Antagonist effects of Ca2+ and spermine on phosphatidylinositol 4,5-bisphosphate-mediated transmembrane redistribution of phospholipids in large unilamellar vesicles and in erythrocytes. Sulpice JC, et al. **Biochemistry** 1996 Oct 15;35(41):13345-52

Studies on ether-phospholipids of vascular smooth muscle cells. Identification of a rapid Ca(2+)-dependent hydrolysis of alkyl-phosphatidylethanolamine promoted by endothelin-1. Comminges C, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):69-80

The effects of adriamycin and adriamycin complexes with transitional metals on Ca(2+)-dependent K+ channels of human erythrocytes. Davtyan TK, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):182-90

Ammonium inhibition of Ca(2+)-dependent inwardly rectifying K+ currents in HeLa cells. Díaz M, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):119-21

Mitochondrial membrane protein thiol reactivity with N-ethylmaleimide or mersalyl is modified by Ca2+: correlation with mitochondrial permeability transition. Kowaltowski AJ, et al. **Biochim Biophys Acta** 1997 Feb 15;1318(3):395-402

Glutathione alters the mode of calcium-mediated regulation of adenylyl cyclase in membranes from mouse brain. Nakamura J, et al. **Biochim Biophys Acta** 1997 May 23; 1339(2):239-46

Calcium modulates plasmin cleavage of the fibrinogen D fragment gamma chain N-terminus: mapping of monoclonal antibody J88B to a plasmin sensitive domain of the gamma chain. Odrljin TM, et al. **Biochim Biophys Acta** 1996 Nov 14;1298(1):69-77

A calcium-activated, large conductance and non-selective cation channel in Paramecium cell. Saitow F, et al. **Biochim Biophys Acta** 1997 Jul 5;1327(1):52-60

Activation by methylene blue of large Ca(2+)-activated K+ channels. Stockand JD, et al. **Biochim Biophys Acta** 1996 Dec 4;1285(2):123-6

The inhibition of human factor Xa by plasminogen activator inhibitor type 1 in the presence of calcium ion, and its enhancement by heparin and vitronectin. Urano T, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):199-208

Ca2+-dependent membrane bound protein fraction from rabbit gastric mucosa contains a protein whose histidyl residue is phosphorylated. Urushidani T, et al. **Biochim Biophys Acta** 1997 Mar 27;1356(1):71-83

Effect of culture matrix on newborn rat skin basal cells; modification of cell response to extracellular calcium. Ohkura K, et al. **Biol Pharm Bull** 1996 Apr;19(4):501-5

Subcellular distribution of protein kinase C alpha and betaI in bovine spermatozoa, and their regulation by calcium and phorbol esters. Lax Y, et al. **Biol Reprod** 1997 Feb; 56(2):454-9

Extracellular calcium negatively modulates tyrosine phosphorylation and tyrosine kinase activity during capacitation of human spermatozoa. Luconi M, et al. **Biol Reprod** 1996 Jul;55(1):207-16

Effects of extracellular calcium on electrical bursting and intracellular and luminal calcium oscillations in insulin secreting pancreatic beta-cells. Chay TR. **Biophys J** 1997 Sep;73(3):1673-88

Calcium regulation of skeletal muscle thin filament motility in vitro. Gordon AM, et al. **Biophys J** 1997 Mar; 72(3):1295-307

Influence of Ca2+ on force redevelopment kinetics in skinned rat myocardium. Hancock WO, et al. **Biophys J** 1996 Jun;70(6):2819-29

Mechanosensitivity of an epithelial Na+ channel in planar lipid bilayers: release from Ca2+ block. Ismailov II, et al. **Biophys J** 1997 Mar;72(3):1182-92

Ryanodine receptor adaptation and Ca2+(-)induced Ca2+ release-dependent Ca2+ oscillations. Keizer J, et al. **Biophys J** 1996 Dec;71(6):3477-87

Noise analysis of ion channels in non-space-clamped cables: estimates of channel parameters in olfactory cilia. Larsson HP, et al. **Biophys J** 1997 Mar;72(3):1193-203

Response of ryanodine receptor channels to Ca2+ steps produced by rapid solution exchange. Laver DR, et al. **Biophys J** 1996 Aug;71(2):732-41

Calcium-mediated DNA adsorption to yeast cells and kinetics of cell transformation by electroporation. Neumann E, et al. **Biophys J** 1996 Aug;71(2):868-77

A novel calcium-sensing domain in the BK channel. Schreiber M, et al. **Biophys J** 1997 Sep;73(3):1355-63

The cytosolic inactivation domains of BKi channels in rat chromaffin cells do not behave like simple, open-channel blockers. Solaro CR, et al. **Biophys J** 1997 Aug; 73(2):819-30

Calcium alone does not fully activate the thin filament for S1 binding to rigor myofibrils. Swartz DR, et al. **Biophys J** 1996 Oct;71(4):1891-904

Enhancement by calcitonin gene-related peptide of non-contractile Ca2(+)-induced nicotinic receptor desensitization at the mouse neuromuscular junction. Dezaki K, et al. **Br J Pharmacol** 1996 Aug;118(8):1971-6

Effect of calmodulin antagonists on calmodulin-induced biphasic modulation of Ca(2+)-induced Ca2+ release. Ikemoto T, et al. **Br J Pharmacol** 1996 Jun;118(3):690-4

Increase by lysophosphatidylcholines of smooth muscle Ca2+ sensitivity in alpha-toxin-permeabilized small mesenteric artery from the rat. Jensen PE, et al. **Br J Pharmacol** 1996 Mar;117(6):1238-44

Inhibition of Ca(2+)-sensitive K+ currents in NG 108-15 cells by substance P and related tachykinins. Phenna S, et al. **Br J Pharmacol** 1996 Sep;119(2):315-20

Effect of englitazone on KATP and calcium-activated non-selective cation channels in CRI-G1 insulin-secreting cells. Rowe IC, et al. **Br J Pharmacol** 1997 Jun;121(3):531-9

Reduced responsiveness of rat mesenteric resistance artery smooth muscle to phenylephrine and calcium following myocardial infarction. Stassen FR, et al. **Br J Pharmacol** 1997 Apr;120(8):1505-12

Sources of calcium and alpha 1-adrenoceptor-mediated contraction in rat tail artery. Tabernero A, et al. **Br J Pharmacol** 1996 Aug;118(8):2067-72

Effects of calcium on the electric coupling of carotid body glomus cells. Abudara V, et al. **Brain Res** 1996 Jun 24; 725(1):125-31

Role of activation of calcium-sensitive K+ channels and cAMP in opioid-induced pial artery dilation. Armstead WM. **Brain Res** 1997 Feb 7;747(2):252-8

Effects of external calcium on zinc modulation of AMPA receptors. Dreixler JC, et al. **Brain Res** 1997 Mar 28; 752(1-2):170-4

The expression of a novel Ca2+/CaM stimulated adenylyl cyclase activity in the neuroblastoma cell line Lan-1 is regulated by cell density. Kluxen FW, et al. **Brain Res** 1996 Nov 18;740(1-2):169-74

Insect 86 kDa protein kinase C substrate is a filament interacting protein regulated by Ca2+/calmodulin and phosphorylation. Müller U. **Brain Res** 1997 May 16; 757(1):24-30

Cat carotid body chemosensory discharge (in vitro) is insensitive to charybdotoxin. Osanai S, et al. **Brain Res** 1997 Feb 7;747(2):324-7

M-current suppression in PC12 cells by bradykinin is mediated by a pertussis toxin-insensitive G-protein and modulated by intracellular calcium. Villarroel A. **Brain Res** 1996 Nov 18;740(1-2):227-33

Alternative splicing of the NMDAR1 subunit affects modulation by calcium. Koltchine VV, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1-2):99-108

Heated oyster shell-seaweed calcium (AAA Ca) on osteoporosis. Fujita T, et al. **Calcif Tissue Int** 1996 Apr; 58(4):226-30

Recirculation fraction of the activator Ca2+: index of the extent of Ca2+ loading of rat myocardium during ischemia-reperfusion. Juggi JS. **Can J Physiol Pharmacol** 1996 Jan;74(1):116-23

Canine bronchial sustained contraction in Ca2+-free medium: role of intracellular Ca2+. Montaño LM, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1236-48

A detailed 1H and 13C NMR study of a repeating disaccharide of hyaluronan: the effect of sodium and calcium ions. Scicińska W, et al. **Carbohydr Res** 1996 Jun 5;286:151-9

New inotropic concepts: rationale for and differences between calcium sensitizers and phosphodiesterase inhibitors. Holubarsch C. **Cardiology** 1997;88 Suppl 2:12-20

Contrasting effects of betaxolol and propranolol on Ca(2+)-activated contractions in skinned fibers from canine coronary arteries and ventricular muscles. Kitada Y. **Cardiovasc Drugs Ther** 1996 Nov;10(5):581-6

alpha-Toxin-permeabilised rabbit fetal ductus arteriosus is more sensitive to Ca2+ than aorta or main pulmonary artery. Crichton CA, et al. **Cardiovasc Res** 1997 Jan; 33(1):223-9

The secretory granule protein syncollin binds to syntaxin in a Ca2(+)-sensitive manner. Edwardson JM, et al. **Cell** 1997 Jul 25;90(2):325-33

Calcium-induced restructuring of nuclear envelope and endoplasmic reticulum calcium stores. Subramanian K, et al. **Cell** 1997 Jun 13;89(6):963-71

Tight junction dynamics in the frog urinary bladder. Lacaz-Vieira F, et al. **Cell Adhes Commun** 1996 Jul; 4(1):53-68

Oscillatory Cl- current induced by angiotensin II in rat pulmonary arterial myocytes: Ca2+ dependence and physiological implication. Guibert C, et al. **Cell Calcium** 1997 Jun;21(6):421-9

Calmodulin-dependent protein kinase II from bovine cardiac muscle: purification and differential activation by calcium. Kakkar R, et al. **Cell Calcium** 1996 Oct;20(4):347-53

Interactions between inositol trisphosphate and Ca2+ dependent Ca2+ release mechanisms on the endoplasmic reticulum of permeabilised bovine aortic endothelial cells. Otun H, et al. **Cell Calcium** 1996 Apr;19(4):315-25

Depletion of calcium stores by thapsigargin induces membrane depolarization by cation entry in human neutrophils. Scharff O, et al. **Cell Calcium** 1996 Jul; 20(1):31-41

Time-resolved fluorescence of S-100a protein: effect of Ca2+, Mg2+ and unilamellar vesicles of egg phosphatidylcholine. Zolese G, et al. **Cell Calcium** 1996 Dec;20(6):465-74

Time correlation of commitment to calcium-induced apoptosis and terminal differentiation in human ectocervical keratinocytes in suspension cultures. Kikuchi K, et al. **Cell Growth Differ** 1997 May;8(5):571-9

Involvement of the extracellular calcium in the release of elastase and the human neutrophils oxidative burst. Khalfi F, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Dec; 42(8):1211-8

Properties of the Ca(2+)-activated Cl- current of Xenopus oocytes. Centinaio E, et al. **Cell Mol Life Sci** 1997 Jul; 53(7):604-10

Kinesin-driven microtubule motility in the presence of alkaline-earth metal ions: indication for a calcium ion-dependent motility. Böhm KJ, et al. **Cell Motil Cytoskeleton** 1997;37(3):226-31

Chemical modification of amino acid residues in glycerinated Vorticella stalk and Ca(2+)-induced contractility. Kono R, et al. **Cell Motil Cytoskeleton** 1997;36(4):305-12

Ca(2+)-induced tension development in the stalks of glycerinated Vorticella convallaria. Moriyama Y, et al. **Cell Motil Cytoskeleton** 1996;34(4):271-8

How calcium causes microtubule depolymerization. O'Brien ET, et al. **Cell Motil Cytoskeleton** 1997;36(2):125-35

Tubulin assembly in the presence of calcium ions and taxol: microtubule bundling and formation of macrotubule-ring complexes. Vater W, et al. **Cell Motil Cytoskeleton** 1997; 36(1):76-83

Calcium controls second-messenger signalling in olfactory cilia. Boekhoff I, et al. **Cell Signal** 1996 Mar;8(3):167-71

Induction of a calcium-dependent long-term enhancement of excitability in the rate olfactory bulb. Elaagouby A, et al. **Chem Senses** 1996 Apr;21(2):159-68

Long-term angiotensin-converting enzyme inhibition with fosinopril improves depressed responsiveness to Ca2+ in myocytes from aortic-banded rats. Kagaya Y, et al. **Circulation** 1996 Dec 1;94(11):2915-22

Physiological role of large, Ca2+-activated K+ channels in human glomerular mesangial cells. Sansom SC, et al. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):76-82

An excess of topical calcium and magnesium reverses the therapeutic effect of citrate on the development of corneal ulcers after alkali injury. Haddox JL, et al. **Cornea** 1996 Mar;15(2):191-5

ARF and PITP restore GTP gamma S-stimulated protein secretion from cytosol-depleted HL60 cells by promoting PIP2 synthesis. Fensome A, et al. **Curr Biol** 1996 Jun 1; 6(6):730-8

Effects of Ca2+ on rabbit translens short-circuit current: evidence for a Ca2+ inhibitable K+ conductance. Alvarez LJ, et al. **Curr Eye Res** 1996 Dec;15(12):1198-207

Glucagon-like peptide 1 and glucose-dependent insulinotropic polypeptide stimulate Ca2+-induced secretion in rat alpha-cells by a protein kinase A-mediated mechanism. Ding WG, et al. **Diabetes** 1997 May; 46(5):792-800

Calcium reverses octreotide inhibition of insulin and glucagon levels in patients with insulinoma and glucagonoma. Thompson CS, et al. **Digestion** 1996;57 Suppl 1:62-8

New structure and function in plant K+ channels: KCO1, an outward rectifier with a steep Ca2+ dependency. Czempinski K, et al. **EMBO J** 1997 May 15;16(10):2565-75

Calcium regulates human CYP11B2 transcription. Clyne CD, et al. **Endocr Res** 1996 Nov;22(4):485-92

Sources and sites of action of calcium in the regulation of aldosterone biosynthesis. Rossier MF, et al. **Endocr Res** 1996 Nov;22(4):579-88

Stimulation of cell proliferation by calcium and a calcimimetic compound. Mailland M, et al. **Endocrinology** 1997 Sep;138(9):3601-5

Reconstitution of calcium-regulated parathyroid hormone secretion from streptolysin-O-permeabilized parathyroid cells by guanosine 5'-O-(thio)triphosphate. Matovcik LM, et al. **Endocrinology** 1997 Mar;138(3):1170-9

Ca(2+)-regulated expression of aldosterone synthase is mediated by calmodulin and calmodulin-dependent protein kinases. Pezzi V, et al. **Endocrinology** 1997 Feb;138(2):835-8

Modulation of steroidogenesis by chloride ions in MA-10 mouse tumor Leydig cells: roles of calcium, protein synthesis, and the steroidogenic acute regulatory protein. Ramnath HI, et al. **Endocrinology** 1997 Jun;138(6):2308-14

Ca2+ or phorbol ester but not inflammatory stimuli elevate inducible nitric oxide synthase messenger ribonucleic acid and nitric oxide (NO) release in avian osteoclasts: autocrine NO mediates Ca2+-inhibited bone resorption. Sunyer T, et al. **Endocrinology** 1997 May;138(5):2148-62

The effects of calcium and other polyvalent cations on channel formation by Escherichia coli alpha-hemolysin in red blood cells and lipid bilayer membranes. Döbereiner A, et al. **Eur J Biochem** 1996 Sep 1;240(2):454-60

Potentiated cAMP rise in metabotropically stimulated rat cultured astrocytes by a Ca2+-related A1/A2 adenosine receptor cooperation. Ogata T, et al. **Eur J Neurosci** 1996 Jun;8(6):1124-31

Interaction between alpha- and beta-adrenergic receptor agonists modulating the slow Ca(2+)-activated K+ current IAHP in hippocampal neurons. Pedarzani P, et al. **Eur J Neurosci** 1996 Oct;8(10):2098-110

Synergistic action of NS-004 and internal Ca2+ concentration in modulating pulmonary artery K+ channels. Vandier C, et al. **Eur J Pharmacol** 1996 Jan 4; 295(1):53-60

Vitamin D receptor genotypes and changes of bone density in physically active German women with high calcium intake. Rauch F, et al. **Exp Clin Endocrinol Diabetes** 1997; 105(2):103-8

Calcium and potassium inhibit barrier recovery after disruption, independent of the type of insult in hairless mice. Mao-Qiang M, et al. **Exp Dermatol** 1997 Feb; 6(1):36-40

Cationic proteins increase the permeability of cultured rabbit tracheal epithelial cells: modification by heparin and extracellular calcium. Uchida DA, et al. **Exp Lung Res** 1996 Jan-Feb;22(1):85-99

Comparison of ultra-slow, voltage-dependent inactivation of the cardiac L-type Ca2+ channel with Ca2+ or Ba2+ as the charge carrier in ferret ventricular myocytes. McMorn SO, et al. **Exp Physiol** 1996 Jul;81(4):565-75

Calcium paradox in guinea-pig ventricular myocytes. Suleiman MS, et al. **Exp Physiol** 1997 Jul;82(4):657-64

Plant calcium-dependent protein kinase-related kinases (CRKs) do not require calcium for their activities. Furumoto T, et al. **FEBS Lett** 1996 Nov 4;396(2-3):147-51

Cysteine-rich regions of protein kinase Cdelta are functionally non-equivalent. Differences between cysteine-rich regions of non-calcium-dependent protein kinase Cdelta and calcium-dependent protein kinase Cgamma. Hunn M, et al. **FEBS Lett** 1997 Jan 3; 400(2):226-32

A novel, calcium-inhibitable casein kinase in Paramecium cells [published erratum appears in FEBS Lett 1997 Apr 7;406(1-2):220] Kissmehl R, et al. **FEBS Lett** 1997 Feb 3; 402(2-3):227-35

Thyroxine induces cyclosporin A-insensitive, Ca2+-dependent reversible permeability transition pore in rat liver mitochondria. Malkevitch NV, et al. **FEBS Lett** 1997 Jul 21;412(1):173-8

Ca-dependent regulation of Na+-selective channels via actin cytoskeleton modification in leukemia cells. Maximov AV, et al. **FEBS Lett** 1997 Jul 21;412(1):94-6

Identification of a novel, Ca(2+)-dependent phospholipase D with preference for phosphatidylserine and phosphatidylethanolamine in Saccharomyces cerevisiae. Mayr JA, et al. **FEBS Lett** 1996 Sep 16;393(2-3):236-40

Calcium mediates the activation of the inhibitory current induced by odorants in toad olfactory receptor neurons. Morales B, et al. **FEBS Lett** 1997 Feb 3;402(2-3):259-64

Engineering thermolysin-like proteases whose stability is largely independent of calcium. Veltman OR, et al. **FEBS Lett** 1997 Mar 24;405(2):241-4

Calcium influx inhibits MT1-MMP processing and blocks MMP-2 activation. Yu M, et al. **FEBS Lett** 1997 Aug 4; 412(3):568-72

Kinetic effects of extracellular calcium on the potassium outward rectifier in the plasma membrane of Saccharomyces cerevisiae. Scheurmann-Kettner C, et al. **Folia Microbiol (Praha)** 1996;41(1):126-8

Comparative inotropic effect of calcium, endothelin-1, and forskolin on ferret papillary muscles during acidosis. Ishiguro Y, et al. **Fundam Clin Pharmacol** 1997;11(3):215-20

Effect of serotonin and calcium in normal and sensitized guinea pig isolated trachea. Perpiña M, et al. **Fundam Clin Pharmacol** 1996;10(1):33-7

Effects of extracellular calcium concentrations and calcium antagonists on vitellogenin induction by estradiol-17 beta in primary hepatocyte culture in the rainbow trout Oncorhynchus mykiss. Yeo IK, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):294-301

The role of endothelium in the calcium-induced reduction of the contractile response of the rabbit aorta. Ortega A, et al. **Gen Pharmacol** 1997 May;28(5):745-52

Effect of gliclazide on the functional response to calcium in diabetic rat heart. Shinzato T, et al. **Gen Pharmacol** 1996 Apr;27(3):471-5

The Saccharomyces cerevisiae SSD1 gene is involved in the tolerance to high concentration of Ca2+ with the participation of HST1/NRC1/BFR1. Tsuchiya E, et al. **Gene** 1996 Oct 17;176(1-2):35-8

Luminal non-selective cation and outwardly rectifying chloride channels in cultured strial marginal cells from gerbil. Yeh T, et al. **Hear Res** 1995 Oct;90(1-2):79-88

Oral calcium supplementation reduces intraplatelet free calcium concentration and insulin resistance in essential hypertensive patients. Sánchez M, et al. **Hypertension** 1997 Jan;29(1 Pt 2):531-6

Different pathways of the release of cytotoxic proteins in LAK cells. Sashchenko LP, et al. **Immunol Lett** 1996 Oct; 53(1):25-9

Influence of Ca2+ on kinetics and thermodynamics of the NADPH-dependent microsomal lipid peroxidation. Gupta M, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):377-83

Possible role of calcium dependent protein phosphorylation in the modulation of wound induced HRGP gene activation

in potatoes after gamma irradiation. Ussuf KK, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):484–90

External calcium–dependent, F–actin–independent and pertussis toxin–insensitive novel neutrophil locomotion induced by a mAb. Suzuki H, et al. **Int Immunol** 1997 May; 9(5):763–9

Extracellular calcium stimulates Na(+)–dependent putrescine uptake in B16 melanoma cells. Minchin RF, et al. **Int J Biochem Cell Biol** 1997 Mar;29(3):447–54

Purification, properties and developmental regulation of a Ca(2+)–independent serine–cysteine protease from Allomyces arbuscula. Ojha M. **Int J Biochem Cell Biol** 1996 Mar;28(3):345–52

Characterization of PO1, a new peptide ligand of the apamin–sensitive Ca2+ activated K+ channel. Zerrouk H, et al. **Int J Pept Protein Res** 1996 Dec;48(6):514–21

Effects of alterations in potassium and calcium concentrations on the pressure generated in rat whole bladder in vitro. Saito M, et al. **Int J Urol** 1996 Nov;3(6):478–83

Alterations in the light transmission through single lens fibers during calcium–mediated disintegrative globulization. Bhatnagar A, et al. **Invest Ophthalmol Vis Sci** 1997 Mar; 38(3):586–92

Decreased Ca2+ sensitivity of isometric tension in skinned cardiac myocytes from tail–suspended rats. Dunlap AW, et al. **J Appl Physiol** 1996 May;80(5):1612–7

Lactate inhibits Ca(2+) –activated Ca(2+)–channel activity from skeletal muscle sarcoplasmic reticulum. Favero TG, et al. **J Appl Physiol** 1997 Feb;82(2):447–52

Regulation of Ca(2+)–activated K+ channels in pulmonary vascular smooth muscle cells: role of nitric oxide. Peng W, et al. **J Appl Physiol** 1996 Sep;81(3):1264–72

Efficacy of calcium ionophore A23187 oocyte activation for generating parthenotes for human embryo research. Rhoton–Vlasak A, et al. **J Assist Reprod Genet** 1996 Nov; 13(10):793–6

Exocytosis of arginine–specific ADP–ribosyltransferase and p33 induced by A23187 and calcium or serum–opsonized zymosan in chicken polymorphonuclear leukocytes. Terashima M, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1209–15

The irreversibility of inner mitochondrial membrane permeabilization by Ca2+ plus prooxidants is determined by the extent of membrane protein thiol cross–linking. Castilho RF, et al. **J Bioenerg Biomembr** 1996 Dec; 28(6):523–9

Butylated hydroxytoluene and inorganic phosphate plus Ca2+ increase mitochondrial permeability via mutually exclusive mechanisms. Sokolove PM, et al. **J Bioenerg Biomembr** 1996 Apr;28(2):199–206

Secondary structure and Ca2+–induced conformational change of calexcitin, a learning–associated protein. Ascoli GA, et al. **J Biol Chem** 1997 Oct 3;272(40):24771–9

Calcium stimulates intramitochondrial cholesterol transfer in bovine adrenal glomerulosa cells. Cherradi N, et al. **J Biol Chem** 1996 Oct 18;271(42):25971–5

Inhibition of G protein–coupled receptor kinase subtypes by Ca2+/calmodulin. Chuang TT, et al. **J Biol Chem** 1996 Nov 8;271(45):28691–6

Isolation and biochemical characterization of a Ca2+–independent alpha–latrotoxin–binding protein. Davletov BA, et al. **J Biol Chem** 1996 Sep 20; 271(38):23239–45

Inositol 1,4,5–trisphosphate and calcium regulate the calcium channel function of the hepatic inositol 1,4,5–trisphosphate receptor. Dufour JF, et al. **J Biol Chem** 1997 Jan 31; 272(5):2675–81

Extracellular calcium and platelet–derived growth factor promote receptor–mediated chemotaxis in osteoblasts through different signaling pathways. Godwin SL, et al. **J Biol Chem** 1997 Apr 25;272(17):11307–12

Translocation of rhoA associated with Ca2+ sensitization of smooth muscle. Gong MC, et al. **J Biol Chem** 1997 Apr 18;272(16):10704–9

Sphingosylphosphocholine reduces the calcium ion requirement for activating tissue transglutaminase. Lai TS, et al. **J Biol Chem** 1997 Jun 27;272(26):16295–300

Docked secretory vesicles undergo Ca2+–activated exocytosis in a cell–free system. Martin TF, et al. **J Biol Chem** 1997 May 30;272(22):14447–53

Reversible calcium–dependent interaction of liposomes with pulmonary surfactant protein A. Analysis by resonant mirror technique and near–infrared light scattering. Meyboom A, et al. **J Biol Chem** 1997 Jun 6;272(23):14600–5

The association of HIV–1 Tat with nuclei is regulated by Ca2+ ions and cytosolic factors. Morgavi P, et al. **J Biol Chem** 1997 Apr 25;272(17):11256–60

Construction of a full–length Ca2+–sensitive adenylyl cyclase/aequorin chimera. Nakahashi Y, et al. **J Biol Chem** 1997 Jul 18;272(29):18093–7

Ca2+/calmodulin causes Rab3A to dissociate from synaptic membranes. Park JB, et al. **J Biol Chem** 1997 Aug 15; 272(33):20857–65

Facilitated protein aggregation. Effects of calcium on the chaperone and anti–chaperone activity of protein disulfide–isomerase. Primm TP, et al. **J Biol Chem** 1996 Dec 27;271(52):33664–9

Desensitization of inositol 1,4,5–trisphosphate/Ca2+–induced Cl– currents by prolonged activation of G proteins in Xenopus oocytes. Quick MW, et al. **J Biol Chem** 1996 Dec 13;271(50):32021–7

Critical role of calcium– dependent epidermal growth factor receptor transactivation in PC12 cell membrane depolarization and bradykinin signaling. Zwick E, et al. **J Biol Chem** 1997 Oct 3;272(40):24767–70

Calcium buffering is required to maintain bone stiffness in saline solution. Gustafson MB, et al. **J Biomech** 1996 Sep; 29(9):1191–4

High extracellular calcium stimulates osteoclast–like cell formation and bone–resorbing activity in the presence of osteoblastic cells. Kaji H, et al. **J Bone Miner Res** 1996 Jul;11(7):912–20

Altered regulation of parathyroid hormone secretion by calcium in pregnant and lactating rats. Schultz VL, et al. **J Bone Miner Res** 1997 Jun;12(6):903–8

Effects of endothelin–1 on [Ca2+]i–shortening trajectory and Ca2+ sensitivity in rabbit single ventricular cardiomyocytes loaded with indo–1/AM: comparison with the effects of phenylephrine and angiotensin II. Fujita S, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S45–57

Enhanced depressor effect of centrally administered high–calcium solution in salt–loaded experimental hypertension. Ozeki S, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):755–62

Centrally administered calcium increases the maximum vagal activation of baroreceptor reflex control of heart rate in spontaneously hypertensive rats. Seto S, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):639–46

Single–channel and functional characteristics of a KCa channel in vascular muscle membranes of human saphenous veins. Zhang H, et al. **J Cardiovasc Pharmacol** 1996 Nov; 28(5):611–7

Prostaglandin E2 stimulates insulin–like growth factor binding protein–4 expression and synthesis in cultured human articular chondrocytes: possible mediation by Ca(++)–calmodulin regulated processes. Di Battista JA, et al. **J Cell Biochem** 1997 Jun 1;65(3):408–19

Influence of mechanical activity, adrenergic stimulation, and calcium on the expression of myosin heavy chains in cultivated neonatal cardiomyocytes. Luther HP, et al. **J Cell Biochem** 1997 Mar 1;64(3):458–65

Expression and phosphorylation of a MARCKS–like protein in gastric chief cells: further evidence for modulation of pepsinogen secretion by interaction of Ca2+/calmodulin with protein kinase C. Raufman JP, et al. **J Cell Biochem** 1997 Mar 1;64(3):514–23

Stabilization of acetylcholine receptors by exogenous ATP and its reversal by cAMP and calcium. O'Malley JP, et al. **J Cell Biol** 1997 Jul 14;138(1):159–65

Lysosomes behave as Ca2+–regulated exocytic vesicles in fibroblasts and epithelial cells. Rodríguez A, et al. **J Cell Biol** 1997 Apr 7;137(1):93–104

Decrease of Ca(2+)–ATPase activity in human keratinocytes during calcium–induced differentiation. Cho JK, et al. **J Cell Physiol** 1997 Aug;172(2):146–54

Endoplasmic reticulum stress–inducible protein GRP94 is associated with an Mg2+–dependent serine kinase activity modulated by Ca2+ and GRP78/BiP. Ramakrishnan M, et al. **J Cell Physiol** 1997 Feb;170(2):115–29

Identification and characterization of a novel type of annexin–membrane interaction: Ca2+ is not required for the association of annexin II with early endosomes. Jost M, et al. **J Cell Sci** 1997 Jan;110 (Pt 2):221–8

Resting load and modulation of the myofilament Ca2+ sensitivity in rabbit cerebral arteries. Chen X, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):236–40

Calcium modulation of adrenocorticotropin levels in women––a clinical research center study. Fuleihan GE, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):932–6

Expression of the calcium–sensing receptor on human antral gastrin cells in culture. Ray JM, et al. **J Clin Invest** 1997 May 15;99(10):2328–33

Hypocholesterolemic action of Lactobacillus acidophilus ATCC 43121 and calcium in swine with hypercholesterolemia induced by diet. De Rodas BZ, et al. **J Dairy Sci** 1996 Dec;79(12):2121–8

Effects of calcium and calmodulin on the binding of rat parotid secretion granules to the plasma membrane [see comments] Watkins DT, et al. **J Dent Res** 1997 Mar; 76(3):744–53. Comment in: J Dent Res 1997 Aug;76(8):1430.

Duration–dependent changes in calcium responsiveness in the alloxan–diabetic rat intestine. Oztürk Y, et al. **J Diabetes Complications** 1996 Sep–Oct;10(5):288–93

Effects of Ca2+ on oxidative phosphorylation in mitochondria from the thermogenic organ of marlin. O'Brien J, et al. **J Exp Biol** 1996 Dec;199 (12):2679–87

Ca2+ activated myosin–ATPase in cardiac myofibrils of rainbow trout, freshwater turtle, and rat. Degn P, et al. **J Exp Zool** 1997 Aug 15;278(6):381–90

Ca2+ currents in cerebral artery smooth muscle cells of rat at physiological Ca2+ concentrations. Rubart M, et al. **J Gen Physiol** 1996 Apr;107(4):459–72

Ca2+–induced Ca2+ release in Chinese hamster ovary (CHO) cells co–expressing dihydropyridine and ryanodine receptors. Suda N, et al. **J Gen Physiol** 1997 May; 109(5):619–31

Transport and regulation of the cardiac Na(+)–Ca2+ exchanger, NCX1. Comparison between Ca2+ and Ba2+. Trac M, et al. **J Gen Physiol** 1997 Mar;109(3):361–9

1,25–dihydroxyvitamin D3, transforming growth factor beta1, calcium, and ultraviolet B radiation induce apoptosis in cultured human keratinocytes. Benassi L, et al. **J Invest Dermatol** 1997 Sep;109(3):276–82

Cloning of human keratolinin cDNA: keratolinin is identical with a cysteine proteinase inhibitor, cystatin A, and is regulated by Ca2+, TPA, and cAMP. Takahashi H, et al. **J Invest Dermatol** 1997 Jun;108(6):843–7

The actions of calmodulin antagonists W–7 and TFP and of calcium on the gating kinetics of the calcium–activated large conductance potassium channel of the chara protoplasmic drop: a substate–sensitive analysis. Laver DR, et al. **J Membr Biol** 1997 Feb 1;155(3):263–74

Facilitation of membrane fusion during exocytosis and exocytosis–coupled endocytosis and acceleration of "ghost" detachment in Paramecium by extracellular calcium. A quenched–flow/freeze–fracture analysis. Plattner H, et al. **J Membr Biol** 1997 Aug 1;158(3):197–208

The Ca2+–inactivated Cl– channel at work: selectivity, blocker kinetics and transport visualization. Reifarth FW, et al. **J Membr Biol** 1997 Jan 1;155(1):95–104

Differential effect of high extracellular Ca2+ on K+ and Cl– conductances in murine osteoclasts. Shibata T, et al. **J Membr Biol** 1997 Jul 1;158(1):59–67

Ca2+–dependent K+ channels in bovine adrenal chromaffin cells are modulated by lipoxygenase metabolites of arachidonic acid. Twitchell WA, et al. **J Membr Biol** 1997 Jul 1;158(1):69–75

The Ca(2+)–induced leak current in Xenopus oocytes is indeed mediated through a Cl– channel. Weber WM, et al. **J Membr Biol** 1995 Dec;148(3):263–75

Clustered distribution of calcium sensitivities: an indication of hetero–tetrameric gating components in Ca2+–activated K+ channels reconstituted from avian nasal gland cells. Wu JV, et al. **J Membr Biol** 1996 Dec;154(3):275–82

Conformational changes due to calcium–induced calmodulin dissociation in brush border myosin I–decorated F–actin revealed by cryoelectron microscopy and image analysis. Whittaker M, et al. **J Mol Biol** 1997 Jun 20;269(4):548–57

Energetics of target peptide recognition by calmodulin: a calorimetric study. Wintrode PL, et al. **J Mol Biol** 1997 Mar 14;266(5):1050–62

The cardiac troponin C isoform and the length dependence of Ca2+ sensitivity of tension in myocardium. Akella AB, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):381–9

Calcium improves mechanical function and carbohydrate metabolism following ischemia in isolated Bi–ventricular working hearts from immature rabbits. Itoi T, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1501–14

Effect of raised extracellular calcium on characteristics of the guinea–pig ventricular action potential. Leitch SP, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):541–51

The modulation of pacing–induced changes in intracellular sodium levels by extracellular Ca2+ in isolated perfused rat hearts. Simor T, et al. **J Mol Cell Cardiol** 1997 Apr; 29(4):1225–35

Ca(2+)–induced conformational shift of the COOH–domain of eel skeletal muscle troponin C in the presence of physiological concentrations of Mg2+. François JM, et al. **J Muscle Res Cell Motil** 1997 Jun;18(3):323–34

Calcium–dependent self–association of synaptotagmin I. Damer CK, et al. **J Neurochem** 1996 Oct;67(4):1661–8

Regulation of GABA level in rat brain synaptosomes: fluxes through enzymes of the GABA shunt and effects of glutamate, calcium, and ketone bodies. Erecińska M, et al. **J Neurochem** 1996 Dec;67(6):2325–34

Evidence for a role of calmodulin in calcium–induced noradrenaline release from permeated synaptosomes: effects of calmodulin antibodies and antagonists. Hens JJ, et al. **J Neurochem** 1996 May;66(5):1933–42

Hydrogen peroxide–induced phospholipase D activation in rat pheochromocytoma PC12 cells: possible involvement of Ca2+–dependent protein tyrosine kinase. Ito Y, et al. **J Neurochem** 1997 Aug;69(2):729–36

Effect of Ca2+ on in vitro astrocyte injury. Rzigalinski BA, et al. **J Neurochem** 1997 Jan;68(1):289–96

Extracellular calcium sensing by glial cells: low extracellular calcium induces intracellular calcium release and intercellular signaling. Zanotti S, et al. **J Neurochem** 1997 Aug;69(2):594–602

Calcium–independent actions of alpha–latrotoxin on spontaneous and evoked synaptic transmission in the hippocampus. Capogna M, et al. **J Neurophysiol** 1996 Nov; 76(5):3149–58

Electrogenic pump and a Ca(2+)– dependent K+ conductance contribute to a posttetanic hyperpolarization in lamprey sensory neurons. Parker D, et al. **J Neurophysiol** 1996 Jul;76(1):540–53

Ca2+– and voltage–dependent inactivation of Ca2+ channels in nerve terminals of the neurohypophysis. Branchaw JL, et al. **J Neurosci** 1997 Aug 1;17(15):5772–81

Ca2+ or Sr2+ partially rescues synaptic transmission in hippocampal cultures treated with botulinum toxin A and C, but not tetanus toxin. Capogna M, et al. **J Neurosci** 1997 Oct 1;17(19):7190–202

A long–lasting calcium–activated nonselective cationic current is generated by synaptic stimulation or exogenous activation of group I metabotropic glutamate receptors in CA1 pyramidal neurons. Congar P, et al. **J Neurosci** 1997 Jul 15;17(14):5366–79

Calcium controls gene expression via three distinct pathways that can function independently of the Ras/mitogen–activated protein kinases (ERKs) signaling cascade. Johnson CM, et al. **J Neurosci** 1997 Aug 15; 17(16):6189–202

Developmental changes in calcium current pharmacology

and somatostatin inhibition in chick parasympathetic neurons. White MG, et al. **J Neurosci** 1997 Aug 15; 17(16):6302–13

Properties of ryanodine receptors in cultured cerebellar granule neurons: effects of hexachlorocyclohexane isomers and calcium. Rosa R, et al. **J Neurosci Res** 1997 Jan 1; 47(1):27–33

Calcium and silicon from bioactive glass concerned with formation of nodules in periodontal–ligament fibroblasts in vitro. Kubo K, et al. **J Oral Rehabil** 1997 Jan;24(1):70–5

The sources of Ca2+ for muscarinic receptor–induced contraction in the rat ileum. Elorriaga M, et al. **J Pharm Pharmacol** 1996 Aug;48(8):817–9

Glycine and calcium–dependent effects of lead on N–methyl–D–aspartate receptor function in rat hippocampal neurons. Marchioro M, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):143–53

Cyclic GMP–gated channels of bovine rod photoreceptors: affinity, density and stoichiometry of Ca(2+)–calmodulin binding sites. Bauer PJ. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):675–85

Modulation of K+ conductances by Ca2+ and human chorionic gonadotrophin in Leydig cells from mature rat testis. Desaphy JF, et al. **J Physiol (Lond)** 1996 Aug 15; 495 (Pt 1):23–35

Dual effect of external Ca2+ on noradrenaline–activated cation current in rabbit portal vein smooth muscle cells. Helliwell RM, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):75–88

Voltage– and time–dependent block of delayed rectifier K+ current in rabbit sino–atrial node cells by external Ca2+ and Mg2+. Ho WK, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):727–42

Two components of exocytosis and endocytosis in phaeochromocytoma cells studied using caged Ca2+ compounds. Kasai H, et al. **J Physiol (Lond)** 1996 Jul 1; 494 (Pt 1):53–65

Calcium–activated potassium channels in the endothelium of intact rat aorta. Marchenko SM, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):53–60

Calcium–induced inactivation of NMDA receptor–channels evolves independently of run–down in cultured rat brain neurones. Medina I, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):411–27

Extracellular divalent cations block a cation non–selective conductance unrelated to calcium channels in rat cardiac muscle. Mubagwa K, et al. **J Physiol (Lond)** 1997 Jul 15; 502 (Pt 2):235–47

Ca2+ loading reduces the tensile strength of sarcolemmal vesicles shed from rabbit muscle. Nichol JA, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):199–209

Phospholipase A2 and protein kinase C contribute to myofilament sensitization to 5–HT in the rabbit mesenteric artery. Parsons SJ, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):447–53

The action of cytoplasmic calcium on the cGMP–activated channel in salamander rod photoreceptors. Sagoo MS, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):309–19

Modulation by purines of calcium–activated non–selective cation channels in the outer hair cells of the guinea–pig cochlea. Van den Abbeele T, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):77–89

Fractional Ca2+ currents through capsaicin– and proton–activated ion channels in rat dorsal root ganglion neurones. Zeilhofer HU, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):67–78

The essentiality of calcium ion in the enzymatic activity of Taiwan cobra phospholipase A2. Chang LS, et al. **J Protein Chem** 1996 Nov;15(8):701–7

Probing calcium ion–induced conformational changes of Taiwan cobra phospholipase A2 by trinitrophenylation of lysine residues. Chang LS, et al. **J Protein Chem** 1997 Jan; 16(1):51–7

Regulation of inositol 1,4,5–trisphosphate–induced calcium release by inositol 1,4,5–trisphosphate and calcium in human platelets. Eberhard M, et al. **J Recept Signal Transduct Res** 1995 Jan–Mar; 15(1–4):297–309

Renovascular responses to high and low perfusate calcium steady–state experiments in the isolated perfused rat kidney with baseline vascular tone. Castelli I, et al. **J Surg Res** 1996 Feb 15;61(1):51–7

Calcium–induced inotropy is in part mediated by protein kinase C. Meldrum DR, et al. **J Surg Res** 1996 Jul 1; 63(2):400–5

Influence of calcium concentration on the antimicrobial activity of lasalocid against Selenomonas ruminantium. Nakamura I, et al. **J Vet Med Sci** 1996 Aug;58(8):755–9

Betaxolol, a beta 1–adrenoceptor antagonist, inhibits Ca(2+)–induced contraction in skinned renal artery of the dog. Kitada Y. **Jpn J Pharmacol** 1996 Feb;70(2):191–4

Activation of phorbol ester responsive form of protein kinase C zeta in association with Ca(2+)–induced differentiation of primary cultured mouse epidermal cells. Nishikawa K, et al. **Jpn J Pharmacol** 1997 Feb;73(2):171–4

Oxidative stress–induced increase in intracellular Ca2+ and Ca(2+)–induced increase in oxidative stress: an experimental model using dissociated rat brain neurons. Oyama Y, et al. **Jpn J Pharmacol** 1996 Dec;72(4):381–5

Ca2+ depletion facilitates taurine release in cultured rat astrocytes. Takuma K, et al. **Jpn J Pharmacol** 1996 Sep; 72(1):75–8

Suppressive effect of calcium on parathyroid hormone release in adynamic renal osteodystrophy and secondary hyperparathyroidism. Goodman WG, et al. **Kidney Int** 1997 May;51(5):1590–5

The stimulatory effect of opioids on cyclic AMP production in SK–N–SH cells is mediated by calcium ions. Fields A, et al. **Life Sci** 1997;61(6):595–602

Extracellular Ca2+–dependent contractile action of phorbol 12,13–dibutyrate on gall bladder from guinea pig. Masui H, et al. **Life Sci** 1997;60(21):PL 311–6

Inhibition of cGMP mediated relaxation in small rat coronary arteries by block of CA++ activated K+ channels. Price JM, et al. **Life Sci** 1997;61(12):1185–92

Alterations in cell cholesterol content modulate Ca(2+)–induced tight junction assembly by MDCK cells. Stankewich MC, et al. **Lipids** 1996 Aug;31(8):817–28

Interaction between extracellular calcium and endothelin–1 influences parathyroid hormone secretion from bovine parathyroid cells through the increase in intracellular calcium. Chang JM, et al. **Miner Electrolyte Metab** 1997; 23(2):113–20

An essential role of the yeast pheromone–induced Ca2+ signal is to activate calcineurin. Withee JL, et al. **Mol Biol Cell** 1997 Feb;8(2):263–77

Deprivation of Na+, Ca2+ and Mg2+ from the extracellular solution increases cytosolic Ca2+ and stimulates catecholamine secretion from cultured bovine adrenal chromaffin cells. Luxoro M, et al. **Mol Cell Biochem** 1997 May;170(1–2):65–73

Calcium–dependent immediate–early gene induction in lymphocytes is negatively regulated by p21Ha–ras. Chen CY, et al. **Mol Cell Biol** 1996 Nov;16(11):6582–92

Importance of calcium for the binding of oviductal fluid proteins to the membranes of bovine spermatozoa. Lapointe S, et al. **Mol Reprod Dev** 1996 Jun;44(2):234–40

Sperm protein (sp50) binds to acrosome and plasma membranes in a Ca(2+)–dependent manner: possible role in acrosome reaction. Othón Hernández E, et al. **Mol Reprod Dev** 1996 Mar;43(3):366–75

Effects of external calcium on contractile responses in rat extensor digitorum longus muscles after sciatic nerve injury at birth. Louboutin JP, et al. **Muscle Nerve** 1996 Nov; 19(11):1421–8

Long–term external calcium dependence of autotransplanted and sliced extensor digitorum longus muscle contractility. Louboutin JP, et al. **Muscle Nerve** 1997 Aug;20(8):1032–4

Pharmacological properties of Ca2+–activated K+ currents of ramified murine brain macrophages. Eder C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):233–9

Calcium–free hemodialysis for the management of hypercalcemia. Koo WS, et al. **Nephron** 1996;72(3):424–8

Ca2+ and H+ antagonize the decrease of [3H]MK–801 binding induced by glutamate and glycine in the presence of Mg2+. Liu Y, et al. **Neurochem Int** 1996 Apr; 28(4):401–15

Activation of serotonergic 5–HT1A receptor reduces Ca(2+)– and glutamatergic receptor–evoked arachidonic acid and No/cGMP release in adult hippocampus. Strosznajder J, et al. **Neurochem Int** 1996 Apr;28(4):439–44

Ca(2+)–mediated phosphorylation and proteolysis activity associated with the cytoskeletal fraction from cerebral cortex of rats. de Freitas MS, et al. **Neurochem Res** 1996 Dec;21(12):1489–95

Glutamate receptor agonists evoked Ca(2+)–dependent and Ca(2+)–independent release of [3H]D–aspartate from cultured chick retina cells. Santos PF, et al. **Neurochem Res** 1996 Mar;21(3):361–8

Effect of subtype–specific Ca(2+)–antagonists and Ca(2+)–free media on the field stimulation–evoked release of ATP and [3H]acetylcholine from rat habenula slices. Sperlágh B, et al. **Neurochem Res** 1997 Aug;22(8):967–75

The effects of raising intracellular calcium on synaptic GABAA receptor–channels. De Koninck Y, et al. **Neuropharmacology** 1996;35(9–10):1365–74

Electrophysiological properties of the human N–type Ca2+ channel: I. Channel gating in Ca2+, Ba2+ and Sr2+ containing solutions. McNaughton NC, et al. **Neuropharmacology** 1997 Jul;36(7):895–915

Paxilline inhibition of the alpha–subunit of the high–conductance calcium–activated potassium channel. Sanchez M, et al. **Neuropharmacology** 1996;35(7):963–8

Regulation of M–type potassium channels in mammalian sympathetic neurons: action of intracellular calcium on single channel currents. Selyanko AA, et al. **Neuropharmacology** 1996;35(7):933–47

The synaptic potential mediated by metabotropic glutamate receptors is not associated with a substantial elevation of cytosolic free calcium concentration in Purkinje cells. Batchelor AM, et al. **Neuroreport** 1996 Aug 12; 7(12):1949–52

Evidence for sensitization of cocaine–induced nucleus accumbens glutamate release. Reid MS, et al. **Neuroreport** 1996 May 17;7(7):1325–9

Tetraethylammonium–sensitive calcium–sensitive potassium current in a subclass of the bullfrog dorsal root ganglion cells. Morita K, et al. **Neurosci Lett** 1996 Sep 13; 215(3):193–6

Effect of calcium on melatonin secretion in chick pineal gland I. Pablos MI, et al. **Neurosci Lett** 1996 Oct 18; 217(2–3):161–4

Differential isoform–specific regulation of calcium–independent protein kinase C in rat cerebral cortex. Pascale A, et al. **Neurosci Lett** 1996 Aug 23; 214(2–3):99–102

The calcium–dependent transient inactivation of recombinant NMDA receptor–channel does not involve the high affinity calmodulin binding site of the NR1 subunit. Rafiki A, et al. **Neurosci Lett** 1997 Feb 21;223(2):137–9

Calcium– and myristoyl–dependent subcellular localization of the neuronal calcium–binding protein VILIP in transfected PC12 cells. Spilker C, et al. **Neurosci Lett** 1997 Apr 4;225(2):126–8

Calcium–dependent after–hyperpolarization in dissociated bullfrog sympathetic neurons. Tokimasa T. **Neurosci Lett** 1996 Oct 25;218(1):49–52

Induction of apoptosis in a Drosophila neuronal cell line by calcium ionophore. Ui–Tei K, et al. **Neurosci Lett** 1996 Jan 26;203(3):191–4

5–Hydroxytryptamine–induced Ca2+ –independent cGMP formation is mediated by nitric oxide in a nitric oxide synthase–independent manner in NG108–15 cells. Arima T, et al. **Neurosci Res** 1997 Mar;27(3):229–33

Ca2+ –activated K+ current at presynaptic terminals of goldfish retinal bipolar cells. Sakaba T, et al. **Neurosci Res** 1997 Mar;27(3):219–28

Calcium– and barium–dependent extracellular alkaline shifts evoked by electrical activity in rat hippocampal slices. Grichtchenko II, et al. **Neuroscience** 1996 Dec; 75(4):1117–26

Vitamin D3– induced histological changes in the corpuscles of stannius of a freshwater catfish, Heteropneustes fossilis kept either in artificial freshwater, calcium–rich freshwater or calcium–deficient freshwater. Singh S, et al. **Okajimas Folia Anat Jpn** 1996 Aug;73(2–3):75–81

Thermal resistance of Bacillus stearothermophilus spores on strips previously treated with calcium. Penna TC, et al. **PDA J Pharm Sci Technol** 1996 Jul–Aug;50(4):227–37

Single–cell measurements of quantal secretion induced by alpha–latrotoxin from rat adrenal chromaffin cells: dependence on extracellular Ca2+ Barnett DW, et al. **Pflugers Arch** 1996 Oct;432(6):1039–46

Ca2+ regulated K+ and non–selective cation channels in the basolateral membrane of rat colonic crypt base cells. Bleich M, et al. **Pflugers Arch** 1996 Oct;432(6):1011–22

Analysis of the time course of calcium–activated chloride "tail" currents in rabbit portal vein smooth muscle cells. Greenwood IA, et al. **Pflugers Arch** 1996 Oct;432(6):970–9

Regulation of calcium release by calcium inside the sarcoplasmic reticulum in ventricular myocytes. Lukyanenko V, et al. **Pflugers Arch** 1996 Oct; 432(6):1047–54

Effects of tyramine and calcium on the kinetics of secretion in intact and electroporated chromaffin cells superfused at high speed. Michelena P, et al. **Pflugers Arch** 1995 Dec; 431(2):283–96

[Ca2+]i elevation evoked by Ca2+ readdition to the medium after agonist–induced Ca2+ release can involve both IP3–, and ryanodine–sensitive Ca2+ release. Mozhayeva MG. **Pflugers Arch** 1996 Nov–Dec;433(1–2):180–7

Recombinant troponin I substitution and calcium responsiveness in skinned cardiac muscle. Strauss JD, et al. **Pflugers Arch** 1996 Apr;431(6):853–62

Intracellular and extracellular Ca2+ regulate histamine–induced release of nitric oxide in vascular endothelial cells as shown with sensitive and selective nitric oxide electrodes. Kishi F, et al. **Pharmacol Res** 1996 Feb; 33(2):123–6

Control of ionic currents in guard cell vacuoles by cytosolic and luminal calcium. Allen GJ, et al. **Plant J** 1996 Dec; 10(6):1055–69

Calcium and cGMP target distinct phytochrome–responsive elements [published erratum appears in Plant J 1997 Apr;11(4):905] Wu Y, et al. **Plant J** 1996 Dec;10(6):1149–54

Effect of calcium marination on biochemical and textural properties of peri–rigor chicken breast meat. Young LL, et al. **Poult Sci** 1997 Jan;76(1):197–201

A calcium responsive element that regulates expression of two calcium binding proteins in Purkinje cells. Arnold DB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8842–7

A biologic function for an "orphan" messenger: D–myo–inositol 3,4,5,6–tetrakisphosphate selectively blocks epithelial calcium–activated chloride channels. Ismailov II, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10505–9

Ca(2+)–induced rebound potentiation of gamma–aminobutyric acid–mediated currents requires activation of Ca2+/calmodulin–dependent kinase II. Kano M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13351–6

SNAP–25 and synaptotagmin involvement in the final Ca(2+)–dependent triggering of neurotransmitter exocytosis. Mehta PP, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10471–6

Calcium–dependent switching of the specificity of phosphoinositide binding to synaptotagmin [published erratum appears in Proc Natl Acad Sci U S A 1997 Feb 4;94(3):1047] Schiavo G, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13327–32

Interactions between two divalent ion binding sites in N–methyl–D–aspartate receptor channels. Sharma G, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14170–5

Cloning, expression, and distribution of a Ca(2+)–activated K+ channel beta–subunit from human brain. Tseng–Crank

J, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):9200–5

Feedback inhibition of Ca2+ channels by Ca2+ depends on a short sequence of the C terminus that does not include the Ca2+ –binding function of a motif with similarity to Ca2+ –binding domains. Zhou J, et al.
Proc Natl Acad Sci U S A 1997 Mar 18;94(6):2301–5

Intracranial–extracranial differences in the Ca2+ sensitivity of rabbit arteries. Akopov SE, et al.
Proc Soc Exp Biol Med 1997 Jan;214(1):76–82

Regulation of endometrial prostaglandin synthesis during early pregnancy in cattle: effects of phospholipases and calcium in vitro. Danet–Desnoyers G, et al.
Prostaglandins 1995 Nov–Dec;50(5–6):313–30

Analysis of structural determinants of the stability of thermolysin–like proteases by molecular modelling and site–directed mutagenesis. Veltman OR, et al.
Protein Eng 1996 Dec;9(12):1181–9

Protein kinase C inhibits the Ca(2+)–dependent stimulation of phospholipase C–beta 1 in vitro. Litosch I.
Recept Signal Transduct 1996;6(2):87–98

Characterization of and modulation by a beta–subunit of a human maxi KCa channel cloned from myometrium. Wallner M, et al. **Receptors Channels** 1995;3(3):185–99

Hyporesponsiveness to Ca2+ of aortic smooth muscle in endotoxin–treated rats: no–dependent and –independent in vitro mechanisms. Ho KH, et al.
Res Commun Mol Pathol Pharmacol 1996 Jun;92(3):275–84

Cobra venom cardiotoxin induces aggregation of washed rat platelets: dual effects of Ca2+. Huang SJ, et al.
Res Commun Mol Pathol Pharmacol 1996 Oct;94(1):103–10

Low extracellular calcium enhances beta cell sensitivity to the stimulatory influence of 1,25–dihydroxyvitamin D3 on insulin release by islets from vitamin D3–deficient rats. Faure–Dussert AG, et al. **Steroids** 1997 Jul;62(7):554–62

Chronic cerebral hypoperfusion inhibits calcium–induced long–term potentiation in rats. Sekhon LH, et al.
Stroke 1997 May;28(5):1043–7; discussion 1047–8

Low calcium–induced disruption of active zone structure and function at the frog neuromuscular junction. Meriney SD, et al. **Synapse** 1996 Sep;24(1):1–11

Sensitization of Ca(2+)–dependent K(+)–channels in Guinea–pig pancreatic acinar cells by phosphorylation. Suzuki K. **Tokai J Exp Clin Med** 1995 Dec;20(4–6):195–201

Modulation of rod, but not cone, cGMP–gated photoreceptor channels by calcium–calmodulin. Haynes LW, et al.
Vis Neurosci 1997 Mar–Apr;14(2):233–9

Different calcium–dependent pathways control fertilisation–triggered glycoside release and the cortical contraction in ascidian eggs. McDougall A, et al.
Zygote 1995 Aug;3(3):251–8

[The effects of lipoteichoic acid and calcium on the adherence of oral streptococci in vitro] Li M, et al.
Chung Hua Kou Chiang Hsueh Tsa Chih 1996 Jan;31(1):9–11 (Eng. Abstr.) **(Chi)**

[Effect of Ca2+ ions on biosynthesis and component composition of tylosin in Streptomyces fradiae] Mironov VA, et al. **Antibiot Khimioter** 1997;42(4):3–7 (Eng. Abstr.) **(Rus)**

[Single Ca2+–activated K+–channels in cultured kidney cells Vero] Kazachenko VN, et al. **Biofizika** 1996 Nov–Dec;41(6):1322–31 (Eng. Abstr.) **(Rus)**

[Effect of Ca2+ ions on the activity of pyruvate dehydrogenase complex in ascites Ehrlich carcinoma cells] Dolgacheva LP, et al. **Biokhimiia** 1996 Aug;61(8):1498–504 (Eng. Abstr.) **(Rus)**

[Biological role and mechanisms of realization of the Crabtree effect in rapidly proliferating cells. The role of Ca2+ ions] Evtodienko IuV, et al. **Biokhimiia** 1996 Nov; 61(11):1995–2004 (65 ref.) (Eng. Abstr.) **(Rus)**

[Calcium causes decrease in membrane potentials of mitochondria from cultured rat cerebellar granular cells during toxic exposure to glutamate] Stel'mashuk EV, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):378–80 **(Rus)**

[Properties of reversible Ca2+–dependent inactivation of NMDA receptor on the cerebellum granular cells] Filippova NG, et al. **Dokl Akad Nauk** 1996 Sep; 350(1):131–4 **(Rus)**

[Effect of DNA on the ultrastructural organization of lecithin liposomes in the presence of calcium cations] Tarakhovskiĭ IuS, et al. **Dokl Akad Nauk** 1996 Sep;350(3):411–3 **(Rus)**

[Phenotypic expression of the Ca2+–dependence trait in recombinant cells of Yersinia pestis (Lehmann, Neumann)] Mozharov OT, et al. **Genetika** 1996 Sep;32(9):1176–83 (Eng. Abstr.) **(Rus)**

[The effect of Mg2+ and Ca2+ ions on the aminoacylation of of transcripts of bacteriophage T5 and Escherichia coli tRNA(Phe) genes] Kholod NS, et al. **Mol Biol (Mosk)** 1996 Sep–Oct;30(5):1066–75 **(Rus)**

[Effect of extracellular concentration of sodium on swelling of cardiomyocytes and myocardial damage during calcium paradox] Alabovskiĭ VV, et al. **Vopr Med Khim** 1997 Jul–Aug;43(4):239–46 (Eng. Abstr.) **(Rus)**

[Features of noradrenaline stimulation of rat liver mitochondria respiration by ADP and calcium ions] Stefankiv IuS, et al. **Ukr Biokhim Zh** 1995 Nov–Dec; 67(6):22–7 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

Effects of halothane, isoflurane and sevoflurane on calcium–related contraction in porcine coronary arteries. Zhang XP, et al. **Acta Anaesthesiol Scand** 1996 Aug; 40(7):815–9

The influence of extracellular Ca2+ on the time course of isovolumetric pressure development in the guinea–pig urinary bladder. Groen J, et al. **Acta Physiol Scand** 1996 Apr;156(4):475–82

Stimulation–induced calcium signalling and ion transport in rat pancreatic acini. Gromada J, et al.
Acta Physiol Scand 1997 Jan;159(1):69–79

Effects of perchlorate on myofibrillar calcium sensitivity in rat skinned skeletal muscles. Khammari A, et al.
Acta Physiol Scand 1996 Apr;156(4):447–56

The energetics of the quiescent heart muscle: high potassium cardioplegic solution and the influence of calcium and hypoxia on the rat heart. Marquez MT, et al.
Acta Physiol Scand 1997 Jul;160(3):229–33

Modulation of voltage–gated Ca2+ channels by O2 tension. Significance for arterial oxygen chemoreception. Franco–Obregón A, et al. **Adv Exp Med Biol** 1996; 410:97–103 (283 ref.)

Carbon monoxide and carotid body chemoreception. Overholt JL, et al. **Adv Exp Med Biol** 1996;410:341–4

Up–regulation of the intracellular Ca2+ signaling and mRNA expression of platelet–activating factor receptor by estradiol in human uterine endometrial cells. Sato S, et al. **Adv Exp Med Biol** 1996;416:95–100

The pharmacology and molecular biology of large–conductance calcium–activated (BK) potassium channels. Gribkoff VK, et al. **Adv Pharmacol** 1997; 37:319–48 (140 ref.)

Gene expression and CREB phosphorylation induced by cAMP and Ca2+ in neuronal cells. Hagiwara M, et al. **Adv Pharmacol** 1996;36:277–85 (11 ref.)

Beneficial vs. detrimental actions of ethanol on heart and coronary vascular muscle: roles of Mg2+ and Ca2+. Altura BM, et al. **Alcohol** 1996 Sep–Oct;13(5):499–513

Effects of dihydropyridines on the components of the ethanol withdrawal syndrome: possible evidence for involvement of potassium, as well as calcium? Watson WP, et al.
Alcohol Clin Exp Res 1997 May;21(3):409–16

Possible mechanisms of the concentration–dependent action of substance P to induce histamine release from rat peritoneal mast cells and the effect of extracellular calcium on mast–cell activation. Amano H, et al. **Allergy** 1997 Feb; 52(2):215–9

Protein families that mediate Ca2+ signaling in the cardiovascular system. Katz AM. **Am J Cardiol** 1996 Nov 7;78(9A):2–6 (49 ref.)

The links between cellular Ca2+ and Na+/H+ exchange in the pathophysiology of essential hypertension. Aviv A. **Am J Hypertens** 1996 Jul;9(7):703–7 (21 ref.)

Effects of erythropoietin on endothelin–1 synthesis and the cellular calcium messenger system in vascular endothelial cells. Vogel V, et al. **Am J Hypertens** 1997 Mar; 10(3):289–96

The 1996 Massry Prize. Inositol trisphosphate and calcium: two interacting second messengers. Berridge MJ.
Am J Nephrol 1997;17(1):1–11 (94 ref.)

Physiological variations in ovine cerebrovascular calcium sensitivity. Akopov SE, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2271–81

Role of extra– and intracellular Ca2+ in the lymphatic myogenic response. Atchison DJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R326–33

Vascular endothelial growth factor increases microvascular permeability via a Ca(2+)–dependent pathway. Bates DO, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H687–94

Ca(2+)– and pH–dependent halothane stimulation of Ca2+ release in sarcoplasmic reticulum from frog muscle [published errata appear in Am J Physiol 1996 Dec;271(6 Pt 1):section C following table of contents and 1996 Dec;271(6 Pt 3):section C following table of contents] Beltrán M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C540–6

Roles of cytoplasmic Ca2+ and intracellular Ca2+ stores in induction and suppression of apoptosis in S49 cells. Bian X, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1241–9

Ca2+ transients in embryonic chick heart: contributions from Ca2+ channels and the sarcoplasmic reticulum. Brotto MA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H518–25

Regulation of ion channels in smooth muscles by calcium. Carl A, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C9–34 (266 ref.)

Ca2+ role in myogenic and neurogenic activities of canine ileum circular muscle. Cayabyab FS, et al.
Am J Physiol 1996 Dec;271(6 Pt 1):G1053–66

Nitroglycerin relaxes rat tail artery primarily by lowering Ca2+ sensitivity and partially by repolarization. Chen XL, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H962–8

Ca2+–independent protein kinase C isoforms may modulate parietal cell HCl secretion. Chew CS, et al.
Am J Physiol 1997 Feb;272(2 Pt 1):G246–56

Purinergic Ca2+ signaling in myenteric neurons via P2 purinoceptors. Christofi FL, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 1):G463–73

Ca(2+)–activated Cl– currents in pulmonary arterial myocytes. Clapp LH, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1577–84

Expression of inositol 1,4,5–trisphosphate receptors changes the Ca2+ signal of Xenopus oocytes. DeLisle S, et al.
Am J Physiol 1996 Apr;270(4 Pt 1):C1255–61

Parathyroid hormone inhibits Na(+)–K(+)–ATPase through Gq/G11 and the calcium–independent phospholipase A2. Derrickson BH, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F781–8

Adenine nucleotide diphosphates: emerging second messengers acting via intracellular Ca2+ release. Dousa TP, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1007–24 (136 ref.)

Modeling spiral Ca2+ waves in single cardiac cells: role of the spatial heterogeneity created by the nucleus. Dupont G, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1390–9

Motilin and OHM–11526 activate a calcium current in human and canine jejunal circular smooth muscle. Farrugia G, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G404–12

Role of acidic Ca2+–independent phospholipase A2 in synthesis of lung dipalmitoyl phosphatidylcholine. Fisher AB, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L238–43

Modulation of voltage–dependent Ca2+ conductance by changing Cl– concentration in rat lactotrophs. Garcia L, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1178–85

Coexistence of two types of Ca(2+)–activated K+ channels in rat renal arterioles. Gebremedhin D, et al.
Am J Physiol 1996 Jan;270(1 Pt 2):F69–81

Angiotensin II–induced Ca(2+)–oscillations in vascular myocytes from the rat pulmonary artery. Guibert C, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L637–42

Annexin VI overexpression targeted to heart alters cardiomyocyte function in transgenic mice.
Gunteski–Hamblin AM, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1091–100

Ins(3,4,5,6)P4 specifically inhibits a receptor–mediated Ca2+–dependent Cl– current in CFPAC–1 cells. Ho MW, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1160–8

CFTR mediates cAMP– and Ca2+–activated duodenal epithelial HCO3– secretion. Hogan DL, et al.
Am J Physiol 1997 Apr;272(4 Pt 1):G872–8

Spontaneous activity of guinea pig ileum longitudinal muscle regulated by Ca(2+)–activated K+ channel. Hong SJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G962–71

Epsilon–isoenzyme of protein kinase C induces a Ca(2+)–independent contraction in vascular smooth muscle. Horowitz A, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C589–94

TXA2 agonists inhibit high–voltage–activated calcium channels in rat hippocampal CA1 neurons. Hsu KS, et al.
Am J Physiol 1996 Oct;271(4 Pt 1):C1269–77

Rate–dependent abbreviation of Ca2+ transient in rat heart is independent of phospholamban phosphorylation. Hussain M, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H695–706

cAMP modulation of a Ca2+–dependent K+ conductance in rat submandibular acinar cells. Ishikawa T.
Am J Physiol 1997 Mar;272(3 Pt 1):G454–62

Protein kinase and Ca2+ modulation of myo–inositol transport in cultured retinal pigment epithelial cells. Karihaloo A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C671–8

Ca(2+)–induced inhibition of 45Ca2+ influx and Ca2+ current in smooth muscle of the rat vas deferens. Khoyi MA, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1468–77

Extracellular ATP mediates Ca2+ signaling in cultured myenteric neurons via a PLC–dependent mechanism. Kimball BC, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G587–93

Regional differences in the role of the Ca2+ and Na+ currents in pacemaker activity in the sinoatrial node. Kodama I, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2793–806

A redox O2 sensor modulates the SR Ca2+ countercurrent through voltage– and Ca(2+)–dependent Cl– channels. Kourie JI. **Am J Physiol** 1997 Jan;272(1 Pt 1):C324–32

A caffeine–sensitive Ca2+ store modulates K+–evoked secretion in chromaffin cells. Lara B, et al.
Am J Physiol 1997 Apr;272(4 Pt 1):C1211–21

Characteristics and physiological role of the Ca(2+)–activated Cl– conductance in smooth muscle. Large WA, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C435–54 (170 ref.)

cAMP– but not Ca(2+)–regulated Cl– conductance is lacking in cystic fibrosis mice epididymides and seminal vesicles. Leung AY, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C188–93

Myocardial infarction alters myofilament calcium sensitivity and mechanical behavior of myocytes. Li P, et al.
Am J Physiol 1997 Jan;272(1 Pt 2):H360–70

Ca(2+)–dependent nitric oxide release in endothelial but not R3230Ac rat mammary adenocarcinoma cells. Lindberg RA, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C332–7

Angiotensin II stimulates T–type Ca2+ channel currents via activation of a G protein, Gi. Lu HK, et al.
Am J Physiol 1996 Oct;271(4 Pt 1):C1340–9

Roles of calcium and kinases in regulation of thrombin–stimulated preproendothelin–1 transcription. Marsen TA, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1918–25

Ammonia effect on calcium–activated chloride secretion in T84 intestinal epithelial monolayers. Mayol JM, et al.
Am J Physiol 1997 Aug;273(2 Pt 1):C634–42

Protein kinase C mediates Ca2(+)–induced cardioadaptation to ischemia–reperfusion injury. Meldrum DR, et al.
Am J Physiol 1996 Sep;271(3 Pt 2):R718–26

Isoproterenol mimics calcium preconditioning–induced protection against ischemia. Miyawaki H, et al.
Am J Physiol 1997 Feb;272(2 Pt 2):H927–36

Characterization of cytosolic Ca2+ signaling in rat bile duct epithelia. Nathanson MH, et al. **Am J Physiol** 1996 Jul;271(1

Pt 1):G86–96
Lysophosphatidylcholine transduces Ca2+ signaling via the platelet-activating factor receptor in macrophages. Ogita T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H17–24
Paracrine mediation of calcium signaling in human SK–N–MCIXC neuroepithelioma cells. Palmer RK, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C43–53
Inhibition of renin secretion by Ca2+ through activation of myosin light chain kinase. Park CS, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C242–7
Aging alters calcium regulation of serum concentration of parathyroid hormone in healthy men. Portale AA, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E139–46
Regulation of intracellular calcium oscillations in porcine tracheal smooth muscle cells. Prakash YS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C966–75
Calcium entry and mobilization signaling pathways in ANG II–induced renal vasoconstriction in vivo. Ruan X, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F398–405
Ca(2+)-activated Cl- channels in a human biliary cell line: regulation by Ca2+/calmodulin-dependent protein kinase. Schlenker T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G304–10
Verapamil abolishes the preglomerular response to ANG II during intrarenal nitric oxide synthesis inhibition. Schnackenberg CG, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1670–6
Proton currents in human eosinophils. Schrenzel J, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1861–71
1,2–Dioctanoyl–sn–glycerol depresses cardiac L–type Ca2+ current: independent of protein kinase C activation. Schreur KD, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C655–62
Ca(2+)-force relationship of frog skeletal muscle: a dynamic model for parameter estimation. Shames DM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C2062–71
Calcium dependence of integrity of the actin cytoskeleton of proximal tubule cell microvilli. Sogabe K, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F292–303
Hypertension alters rapid cooling contractures in single rat cardiocytes. Stauffer BL, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 1):C1000–6
Roles of Ca2+ and Na+ in the inward current and action potentials of guinea pig ureteral myocytes. Sui JL, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C535–42
Properties of inward calcium current in guinea pig ureteral myocytes. Sui JL, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C543–9
Angiotensin II type 1 receptor modulation of neuronal K+ and Ca2+ currents: intracellular mechanisms. Sumners C, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C154–63
Regulation of taurine transport in rat astrocytes by protein kinase C: role of calcium and calmodulin. Tchoumkeu–Nzouessa GC, et al. **Am J Physiol** 1996 Apr; 270(4 Pt 1):C1022–8
Cloning and expression of the large–conductance Ca(2+)-activated K+ channel from colonic smooth muscle. Vogalis F, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G629–39
Role of calcium and cross bridges in determining rate of force development in frog muscle fibers. Wahr PA, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1664–71
Ca(2+)-activated Cl- currents are activated by metabolic inhibition in rat pulmonary artery smooth muscle cells. Wang Q, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C520–30
Cytochrome P–450 metabolites mediate extracellular Ca(2+)-induced inhibition of apical K+ channels in the TAL. Wang WH, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C103–11
M2 receptor activation of nonselective cation channels in smooth muscle cells: calcium and Gi/G(o) requirements. Wang YX, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C500–8
Muscarinic signaling pathway for calcium release and calcium–activated chloride current in smooth muscle. Wang YX, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C509–19
Activation of KCa channels in airway smooth muscle cells by endogenous protein kinase A. Wang ZW, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):L100–5
Electrical fields enhance growth of cancer spheroids by reactive oxygen species and intracellular Ca2+. Wartenberg M, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1677–83
Inactivation of the calcium current is involved in overdrive suppression of rabbit sinoatrial node cells. Watanabe EI, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2097–107
Roles of Ca2+ and PKC in regulation of acid/base transport in isolated proximal tubules. Yamada H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F1068–76
ATP–induced rise in apamin–sensitive Ca(2+)-dependent K+ conductance in adult rat hepatocytes. Yamashita Y, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G307–13
Sphingolipid actions on sodium and calcium currents of rat ventricular myocytes. Yasui K, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C645–9
Role of calcium–activated chloride current in regulating pulmonary vasomotor tone. Yuan XJ. **Am J Physiol** 1997 May;272(5 Pt 1):L959–68
A mitochondrial uncoupler increases KCa currents but decreases KV currents in pulmonary artery myocytes. Yuan XJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C321–31
Intercellular calcium waves in rat pancreatic acini: mechanism of transmission. Yule DI, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1285–94
Endothelin–activated calcium signaling in enteric glia derived from neonatal guinea pig. Zhang W, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1175–85
Inhibition of K(V) and K(Ca) channels antagonizes NO–induced relaxation in pulmonary artery. Zhao YJ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H904–12
20–HETE is an endogenous inhibitor of the large–conductance Ca(2+)-activated K+ channel in renal arterioles. Zou AP, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R228–37
Halothane attenuation of calcium sensitivity in airway smooth muscle. Mechanisms of action during muscarinic receptor stimulation. Bremarich DH, et al. **Anesthesiology** 1997 Jul; 87(1):94–101
Volatile anesthetics reduce low–voltage–activated calcium currents in a thyroid C–cell line. McDowell TS, et al. **Anesthesiology** 1996 Nov;85(5):1167–75
Endothelin–induced electrical activity and calcium dynamics in vascular smooth muscle cells: a model study. Wong AY, et al. **Ann Biomed Eng** 1996 Sep–Oct;24(5):547–60
Calcium–independent regulation of transmitter release at the frog neuromuscular junction. Kijima H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:443–6
Ca(2+)-activated K channel in vas deferens smooth muscle cells. Morimoto K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:407–9
Why is the hamster heart resistant to calcium paradox? Ray M, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:456–9
Propagated calcium modulates the calcium–dependent potassium current by the activation of GABAB receptor at the axonal branch in the type B photoreceptor of Hermissenda. Sakakibara M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:492–5
Calcium in close quarters: microdomain feedback in excitation–contraction coupling and other cell biological phenomena. Ríos E, et al. **Annu Rev Biophys Biomol Struct** 1997;26:47–82 (105 ref.)
Enhanced expression of cyclin–dependent kinase inhibitor in apoptosis of androgen–independent prostatic cancer cell line induced by calcium ionophore. Furuya Y, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2391–4
Vasorelaxation of noradrenaline–constricted guinea–pig and rabbit aorta by the adenosine analogue NECA: roles of intra–and extracellular calcium. Ford WR, et al. **Arch Int Pharmacodyn Ther** 1996 May–Jun;331(3):285–300
Cell physiology of the pineal body. Marchiafava PL, et al. **Arch Ital Biol** 1997 Mar;135(2):183–94 (73 ref.)
Calcium–independent cytolysis of target cells induced by Entamoeba histolytica. Berninghausen O, et al. **Arch Med Res** 1997;28 Spec No:158–60
Regulation of gamma T–cell antigen receptor expression by intracellular calcium in acute lymphoblastic leukemia cell line DND41. Peralta–Zaragoza O, et al. **Arch Med Res** 1996 Autumn;27(3):305–10
Signal transduction mechanisms in Entamoeba histolytica trophozoites. Pérez E, et al. **Arch Med Res** 1997;28 Spec No:127–8
Oxidized LDLs induce massive apoptosis of cultured human endothelial cells through a calcium–dependent pathway. Prevention by aurintricarboxylic acid. Escargueil–Blanc I, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):331–9
Contributions of Ca(2+)-influx via the L–type Ca(2+)-current and Ca(2+)-release from the sarcoplasmic reticulum to [Ca2+]i–transients in human myocytes. Beuckelmann DJ. **Basic Res Cardiol** 1997;92 Suppl 1:105–10
Molecular mechanisms regulating the myofilament response to Ca2+: implications of mutations causal for familial hypertrophic cardiomyopathy. Palmiter KA, et al. **Basic Res Cardiol** 1997;92 Suppl 1:63–74 (96 ref.)
Ca(2+)-dependent and Ca(2+)-independent regulation of contractility in isolated human myocardium. Pieske B, et al. **Basic Res Cardiol** 1997;92 Suppl 1:75–86 (52 ref.)
Calcium– and zinc–binding proteins in intracellular transport. Aballay A, et al. **Biocell** 1996 Dec;20(3):339–42 (28 ref.)
Free cytosolic calcium levels modify intracellular pH in rat pancreatic acini. González A, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):652–6
Role of intracellular calcium in the angiotensin II–mediated tyrosine phosphorylation and dephosphorylation of PLC–gamma 1. Harp JB, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):540–4
Apamin–sensitive Ca2+–dependent K+ current and hyperpolarization in human endothelial cells. Muraki K, et al. **Biochem Biophys Res Commun** 1997 Jul 18; 236(2):340–3
A flickery block of a K+ channel mediated by extracellular Ca2+ and other agonists of the Ca2+–sensing receptors in dispersed bovine parathyroid cells. Vassilev PM, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):616–23
Mechanism of long–range Ca2+ signalling in the nucleus of isolated rat hepatocytes. Fox JL, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):491–5
Thiol oxidation by 2,2'-dithiodipyridine causes a reversible increase in cytoplasmic free Ca2+ concentration in pancreatic beta–cells. Role for inositol 1,4,5–trisphosphate–sensitive Ca2+ stores. Islam MS, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):347–54
Interleukin 1–induced calcium signalling in chondrocytes requires focal adhesions. Luo L, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):653–8
Involvement of the Ca2+/calmodulin–dependent protein kinase II pathway in the Ca2+–mediated regulation of the capacitative Ca2+ entry in Xenopus oocytes. Matifat F, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):267–72
Calcium–dependence of synexin binding may determine aggregation and fusion of lamellar bodies. Sen N, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):103–9
Isolated rat hepatocytes differentially bind and internalize bovine lactoferrin N– and C–lobes. Sitaram MP, et al. **Biochem J** 1997 May 1;323 (Pt 3):815–22
Highly conserved residue arginine–15 is required for the Ca2+–dependent properties of the gamma–carboxyglutamic acid domain of human anticoagulation protein C and activated protein C. Thariath A, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):309–15
Cellular events involved in the sensitization of etoposide–resistant cells by inhibitors of calcium–calmodulin–dependent processes. Role for effects on apoptosis, DNA cleavable complex, and phosphorylation. Kawamura K, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1903–9
Transduction of Ca2+ signals in plant cells and compartmentalization of the Ca2+ signal. Trewavas A, et al. **Biochem Soc Trans** 1996 Nov;24(4):971–4 (24 ref.)
Ca2+–signaling cycle of a membrane–docking C2 domain. Nalefski EA, et al. **Biochemistry** 1997 Oct 7;36(40):12011–8
Calcium–induced structural transition in the regulatory domain of human cardiac troponin C. Spyracopoulos L, et al. **Biochemistry** 1997 Oct 7;36(40):12138–46
Activation of protein kinase C by intracellular free calcium in the motoneuron cell line NSC–19. Hasham MI, et al. **Biochim Biophys Acta** 1997 Apr 12;1360(2):177–91
The role of altered [Ca2+]i regulation in apoptosis, oncosis, and necrosis. Trump BF, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):173–8 (37 ref.)
Integrin–mediated calcium signaling and regulation of cell adhesion by intracellular calcium. Sjaastad MD, et al. **Bioessays** 1997 Jan;19(1):47–55 (83 ref.)
Release profiles of recombinant human tumor necrosis factor from Ca(2+)-triggering liposome in vivo. Yasui K, et al. **Biol Pharm Bull** 1996 Feb;19(2):246–51
Chloride–dependent sarcoplasmic reticulum Ca2+ release correlates with increased Ca2+ activation of ryanodine receptors. Fruen BR, et al. **Biophys J** 1996 Nov; 71(5):2522–30
Calcium dynamics associated with a single action potential in a CNS presynaptic terminal. Helmchen F, et al. **Biophys J** 1997 Mar;72(3):1458–71
Glutamatergically induced pattern of Ca2+ driving potential as a mechanism of postsynaptic plasticity. Korogod SM, et al. **Biophys J** 1997 Sep;73(3):1655–64
Structure and periodicities of cross–bridges in relaxation, in rigor, and during contractions initiated by photolysis of caged Ca2+. Lenart TD, et al. **Biophys J** 1996 Nov; 71(5):2289–306
Membrane–proximal calcium transients in stimulated neutrophils detected by total internal reflection fluorescence. Omann GM, et al. **Biophys J** 1996 Nov; 71(5):2885–91
Myosin regulatory light chain modulates the Ca2+ dependence of the kinetics of tension development in skeletal muscle fibers. Patel JR, et al. **Biophys J** 1996 May; 70(5):2333–40
Calmidazolium alters Ca2+ regulation of tension redevelopment rate in skinned skeletal muscle. Regnier M, et al. **Biophys J** 1996 Nov;71(5):2786–94
Reduced Ca2+ current, charge movement, and absence of Ca2+ transients in skeletal muscle deficient in dihydropyridine receptor beta 1 subunit. Strube C, et al. **Biophys J** 1996 Nov;71(5):2531–43
Modulation of L–type Ca2+ current by fast and slow Ca2+ buffering in guinea pig ventricular cardiomyocytes. You Y, et al. **Biophys J** 1997 Jan;72(1):175–87
Characterisation of the role of calcium in AlF4–induced long–term potentiation in area CA1 of rat hippocampus. Breakwell NA, et al. **Biosci Rep** 1997 Apr;17(2):209–18
Calcium pools, calcium entry, and cell growth. Gill DL, et al. **Biosci Rep** 1996 Apr;16(2):139–57 (57 ref.)
Reactive oxygen and nitrogen species regulate mitochondrial Ca2+ homeostasis and respiration. Richter C. **Biosci Rep** 1997 Feb;17(1):53–66 (106 ref.)
Membrane potential changes in activated cells: connection with cytosolic calcium oscillator. Despa SI. **Biosystems** 1996;39(3):233–40
Dehydration of transferrin receptor–positive sickle reticulocytes during continuous or cyclic deoxygenation: role of KCl cotransport and extracellular calcium. Franco RS, et al. **Blood** 1996 Dec 1;88(11):4359–65
Cellular distribution and regulation of NHE–1 isoform of the NA–H exchanger in the avian osteoclast. Gupta A, et al. **Bone** 1996 Feb;18(2):87–95
Modulation of the hepatic alpha 1–adrenoceptor responsiveness by colchicine: dissociation of free cytosolic Ca(2+)-dependent and independent responses. Butta N, et al. **Br J Pharmacol** 1996 Aug;118(7):1797–805
Characterization of Ca(2+)-activated 86Rb+ fluxes in rat C6 glioma cells: a system for identifying novel IKCa–channel toxins. de–Allie FA, et al. **Br J Pharmacol** 1996 Feb;117(3):479–487
Dual regulation of the Na+/H(+)-exchange in rat peritoneal mast cells: role of protein kinase C and calcium on pHi regulation and histamine release. Friis UG, et al.

Br J Pharmacol 1996 Jul;118(6):1327–34

Modulation of agonist–induced phosphoinositide metabolism, Ca2+ signalling and contraction of airway smooth muscle by cyclic AMP–dependent mechanisms. Hoiting BH, et al. **Br J Pharmacol** 1996 Feb;117(3):419–426

Central role of intracellular calcium stores in acute flow– and agonist–evoked endothelial nitric oxide release. Hutcheson IR, et al. **Br J Pharmacol** 1997 Sep; 122(1):117–25

Prominent role of intracellular Ca2+ release in hypoxic vasoconstriction of canine pulmonary artery. Jabr RI, et al. **Br J Pharmacol** 1997 Sep;122(1):21–30

Role of Ca(2+)–activated K+ channels in acetylcholine–induced dilatation of the basilar artery in vivo. Kitazono T, et al. **Br J Pharmacol** 1997 Jan; 120(1):102–6

Role of intracellular Ca2+ in the K channel opener action of CGRP in the guinea–pig ureter. Maggi CA, et al. **Br J Pharmacol** 1996 Jul;118(6):1493–503

Involvement of tyrosine phosphorylation in endothelin–1–induced calcium–sensitization in rat small mesenteric arteries. Ohanian J, et al. **Br J Pharmacol** 1997 Feb;120(4):653–61

Contribution of calcium–activated potassium channels to the vasodilator effect of bradykinin in the isolated, perfused kidney of the rat. Rapacon M, et al. **Br J Pharmacol** 1996 Jul;118(6):1504–8

Cellular mechanisms underlying carbachol–induced oscillations of calcium–dependent membrane current in smooth muscle cells from mouse anococcygeus. Wayman CP, et al. **Br J Pharmacol** 1997 Aug;121(7):1301–8

Short–term exposure to low concentrations of thapsigargin inhibits replication of cultured human vascular smooth muscle cells. Shukla N, et al. **Br J Surg** 1997 Mar; 84(3):325–30

Whole–cell NMDA–evoked current in suprachiasmatic neurones of the rat: modulation by extracellular calcium ions. Alberi S, et al. **Brain Res** 1997 Jan 16;745(1–2):55–66

Neuroprotective sigma ligands attenuate NMDA and trans–ACPD–induced calcium signaling in rat primary neurons. Klette KL, et al. **Brain Res** 1997 May 9; 756(1–2):231–40

Horizontal cell electrical coupling in the giant danio: synaptic modulation by dopamine and synaptic maintenance by calcium. McMahon DG, et al. **Brain Res** 1996 Apr 29; 718(1–2):89–96

Calcium modulates circadian variation in cAMP–stimulated melatonin in chick pineal cells. Nikaido SS, et al. **Brain Res** 1996 Apr 15;716(1–2):1–10

In rat pinealocytes the cyclic GMP response to NO is regulated by Ca2+ and protein kinase C. Spessert R, et al. **Brain Res** 1995 Oct 2;694(1–2):207–12

Distribution of AVP and Ca(2+)–dependent PKC–isozymes in the suprachiasmatic nucleus of the mouse and rabbit. Van der Zee EA, et al. **Brain Res** 1995 Dec 1; 701(1–2):99–107

Rapid Ca2+–dependent NO–production from central nervous system cells in culture measured by NO–nitrite/ozone chemoluminescence. Weikert S, et al. **Brain Res** 1997 Feb 14;748(1–2):1–11

Possible involvement of calmodulin–dependent kinases in Ca(2+)–dependent enhancement of [3H]5–hydroxytryptamine uptake in rat cortex. Yura A, et al. **Brain Res** 1996 Oct 28;738(1):96–102

Glutamate–dependent mechanisms in the induction of a calcium long–term potentiation–like phenomenon. Sagratella S, et al. **Brain Res Bull** 1996;41(4):193–200

The effects of innervation on the developmental expression of Ca(2+)–activated K+ currents in embryonic parasympathetic neurons are not activity–dependent. Subramony P, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):149–52

Calcium– and calmodulin–dependent phosphorylation of AMPA type glutamate receptor subunits by endogenous protein kinases in the post–synaptic density. Hayashi Y, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):338–42

Electrophysiological properties of L–type Ca2+ currents in isolated adult mouse ventricular myocytes. Nascimento JH. **Braz J Med Biol Res** 1996 Oct;29(10):1397–405

Calcium regulation of glycolysis, glucose oxidation, and fatty acid oxidation in the aerobic and ischemic heart. Schönekess BO, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1632–40

Differences in the calcium–mediated regulation of gap junctional intercellular communication between a cell line consisting of initiated cells and a carcinoma–derived cell line. Jansen LA, et al. **Carcinogenesis** 1996 Nov; 17(11):2311–9

CREB phosphorylation and dephosphorylation: a Ca(2+)– and stimulus duration–dependent switch for hippocampal gene expression. Bito H, et al. **Cell** 1996 Dec 27; 87(7):1203–14

Microdomains and elemental events in calcium signalling. Berridge MJ. **Cell Calcium** 1996 Aug;20(2):95–6 (0 ref.)

Hormone–evoked subcellular Ca2+ signals in HeLa cells. Bootman MD. **Cell Calcium** 1996 Aug;20(2):97–104 (53 ref.)

Excitation–contraction coupling in heart: new insights from Ca2+ sparks. Cheng H, et al. **Cell Calcium** 1996 Aug; 20(2):129–40 (45 ref.)

Ca2+ signaling in endothelial cells stimulated by bradykinin: Ca2+ measurement in the mitochondria and the cytosol by confocal microscopy. Donnadieu E, et al. **Cell Calcium** 1996 Jul;20(1):53–61

Localized calcium signalling and neuronal integration in cerebellar Purkinje neurones. Eilers J, et al. **Cell Calcium** 1996 Aug;20(2):215–26 (65 ref.)

Distinct Ca2+ response patterns in human natural killer cells during induction of necrosis or apoptosis of target cells. Honda Y, et al. **Cell Calcium** 1996 Apr;19(4):297–306

Ionophore–releasable lumenal Ca2+ stores are not required for nuclear envelope assembly or nuclear protein import in Xenopus egg extracts. Marshall IC, et al. **Cell Calcium** 1997 Feb;21(2):151–61

Ca2+ sparks and Ca2+ waves activate different Ca(2+)–dependent ion channels in single myocytes from rat portal vein. Mironneau J, et al. **Cell Calcium** 1996 Aug; 20(2):153–60 (25 ref.)

Type 3 inositol 1,4,5–trisphosphate receptor and capacitative calcium entry. Putney JW Jr. **Cell Calcium** 1997 Mar; 21(3):257–61 (41 ref.)

Sarcomeric calcium sparks activated by fiber depolarization and by cytosolic Ca2+ in skeletal muscle [published erratum appears in Cell Calcium 1997 Feb;21(2):173] Schneider MF, et al. **Cell Calcium** 1996 Aug;20(2):123–8 (27 ref.)

Calcium, BOBs, QEDs, microdomains and a cellular decision: control of mitotic cell division in sand dollar blastomeres. Silver RB. **Cell Calcium** 1996 Aug;20(2):161–79 (99 ref.)

Spatial domains of Ca2+ signaling in secretory epithelial cells. Thorn P. **Cell Calcium** 1996 Aug;20(2):203–14 (85 ref.)

Two distinct Na+ currents control cytosolic Ca2+ pulsing in Xenopus laevis pituitary melanotrophs. Valentijn JA, et al. **Cell Calcium** 1997 Mar;21(3):241–51

Regulation of motility of cells from marine sponges by calcium ions. Lorenz B, et al. **Cell Signal** 1996 Nov; 8(7):517–24

Analysis of mechanical restitution and post–rest potentiation in isolated rat atrium. Wu SN, et al. **Chin J Physiol** 1996; 39(1):23–9

Alpha 1–adrenergic activation inhibits beta–adrenergic–stimulated unitary Ca2+ currents in cardiac ventricular myocytes. Chen L, et al. **Circ Res** 1996 Aug;79(2):184–93

Mechanism of vascular smooth muscle relaxation by estrogen in depolarized rat and mouse aorta. Role of nuclear estrogen receptor and Ca2+ uptake. Freay AD, et al. **Circ Res** 1997 Aug;81(2):242–8

Ca2+ as a mediator of ischemic preconditioning. Miyawaki H, et al. **Circ Res** 1997 Jun;80(6):790–9

Gender differences in coronary artery diameter involve estrogen, nitric oxide, and Ca(2+)–dependent K+ channels. Wellman GC, et al. **Circ Res** 1996 Nov; 79(5):1024–30

Triggered propagated contractions in rat cardiac trabeculae. Inhibition by octanol and heptanol. Zhang YM, et al. **Circ Res** 1996 Dec;79(6):1077–85

Decreased myocyte tension development and calcium responsiveness in rat right ventricular pressure overload. Fan D, et al. **Circulation** 1997 May 6;95(9):2312–7

Bradykinin mediation of Ca(2+)–activated K+ channels regulates coronary blood flow in ischemic myocardium. Node K, et al. **Circulation** 1997 Mar 18;95(6):1560–7

Effect of Ca2+ on GP IIb–IIIa interactions with integrilin: enhanced GP IIb–IIIa binding and inhibition of platelet aggregation by reductions in the concentration of ionized calcium in plasma anticoagulated with citrate. Phillips DR, et al. **Circulation** 1997 Sep 2;96(5):1488–94

Is calcium a mediator of infarct size reduction with preconditioning in canine myocardium? Przyklenk K, et al. **Circulation** 1997 Aug 19;96(4):1305–12

Effects of MCI–154, a calcium sensitizer, on left ventricular systolic and diastolic function in pacing–induced heart failure in the dog. Teramura S, et al. **Circulation** 1997 Feb 4;95(3):732–9

Mechanisms for regulation of arterial tone by Ca2+–dependent K+ channels in hypertension. Rusch NJ, et al. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1077–81 (30 ref.)

Intestinal calcium absorption and response of calcium regulating hormones in the stroke–prone spontaneously hypertensive rat as a model of osteoporosis. Fukuda S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S240–1

Spin–labelling study of biomembranes in spontaneously hypertensive rats: calcium– and calmodulin–dependent regulation. Tsuda K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S234–6

Influence of changes in ionized calcium on cardiovascular reactivity during hemodialysis. van Kuijk WH, et al. **Clin Nephrol** 1997 Mar;47(3):190–6

Role of Ca+2 and other second messengers in excitatory amino acid receptor mediated neurodegeneration: clinical perspectives. Schousboe A, et al. **Clin Neurosci** 1997; 4(4):194–8 (87 ref.)

The GluR2 hypothesis: Ca(++)–permeable AMPA receptors in delayed neurodegeneration. Bennett MV, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:373–84 (29 ref.)

An estimate of the participation of the sarcoplasmic reticulum in the intracellular Ca2+ regulation in adult and newborn ferret hearts. Bonnet V, et al. **Comp Biochem Physiol A Physiol** 1996 Dec;115(4):341–8

Ca2+ and Cl(–)–dependence of the turtle olfactory response to odorants and forskolin. Kashiwayanagi M, et al. **Comp Biochem Physiol A Physiol** 1996 Sep;115(1):43–52

Inositol 1,4,5–trisphosphate receptors and calcium signaling. Michikawa T, et al. **Crit Rev Neurobiol** 1996;10(1):39–55 (117 ref.)

Cytoplasmic Ca2+ mobilization and Ca(2+)–dependent membrane currents in dispersed bovine ciliary muscle cells. Fujii T, et al. **Curr Eye Res** 1997 May;16(5):436–44

Calcium regulation of neurotransmitter release: reliably unreliable? Goda Y, et al. **Curr Opin Cell Biol** 1997 Aug; 9(4):513–8 (40 ref.)

Ca2+–dependent regulation in neuronal gene expression. Bito H, et al. **Curr Opin Neurobiol** 1997 Jun;7(3):419–29 (139 ref.)

Imaging calcium dynamics in dendritic spines. Denk W, et al. **Curr Opin Neurobiol** 1996 Jun;6(3):372–8 (63 ref.)

The InsP3 receptor and intracellular Ca2+ signaling. Mikoshiba K. **Curr Opin Neurobiol** 1997 Jun;7(3):339–45 (70 ref.)

The roles of trp and calcium in regulating photoreceptor function in Drosophila. Minke B, et al. **Curr Opin Neurobiol** 1996 Aug;6(4):459–66 (67 ref.)

Breaking the code: regulation of neuronal differentiation by spontaneous calcium transients. Gu X, et al. **Dev Neurosci** 1997;19(1):33–41 (57 ref.)

Extracellular Ca2+ entry and Ca2+ release from inositol 1,4,5–trisphosphate–sensitive stores function at fertilization in oocytes of the marine bivalve Mytilus edulis. Deguchi R, et al. **Development** 1996 Nov;122(11):3651–60

Possible role for mitochondrial calcium in angiotensin II– and potassium–stimulated steroidogenesis in bovine adrenal glomerulosa cells. Brandenburger Y, et al. **Endocrinology** 1996 Dec;137(12):5544–51

Testosterone acts directly at the pituitary to regulate gonadotropin–releasing hormone–induced calcium signals in male rat gonadotropes. Tobin VA, et al. **Endocrinology** 1997 Aug;138(8):3314–9

Effects of various valproic acid derivatives on low–calcium spontaneous epileptiform activity in hippocampal slices. Armand V, et al. **Epilepsy Res** 1995 Nov;22(3):185–92

Altered calcium homeostasis in the rat cochlear duct and endogenous corticosteroid insufficiency. Ma YL, et al. **Eur Arch Otorhinolaryngol** 1997;254(4):165–8

Stimulation of arginine vasopressin secretion by a small increase in blood ionized calcium in normal men. Chiodera P, et al. **Eur J Clin Invest** 1997 Jul;27(7):575–8

Can trifluoperazine protect mitochondria against reactive oxygen species–induced damage? Pereira R de D, et al. **Eur J Drug Metab Pharmacokinet** 1996 Oct–Dec; 21(4):281–4

GnRH receptor signaling: cross–talk of Ca2+ and protein kinase C. Naor Z. **Eur J Endocrinol** 1997 Feb;136(2):123–7 (39 ref.)

Hypertension induced by recombinant human erythropoietin (rHU–EPO) can be prevented by indomethacin. Pathogenetic role of cytosolic calcium. Schiffl H, et al. **Eur J Med Res** 1997 Mar 24;2(3):97–100

Interneuron–specific Ca2+ responses linked to metabotropic and ionotropic glutamate receptors in rat hippocampal slices. Carmant L, et al. **Eur J Neurosci** 1997 Aug; 9(8):1625–35

Calcium signalling in mouse Bergmann glial cells mediated by alpha1–adrenoreceptors and H1 histamine receptors. Kirischuk S, et al. **Eur J Neurosci** 1996 Jun;8(6):1198–208

Differential effects of the BKCa channel openers NS004 and NS1608 in porcine coronary arterial cells. Hu S, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):357–60

NS 1619 activates Ca2+–activated K+ currents in rat vas deferens. Huang Y, et al. **Eur J Pharmacol** 1997 Apr 23; 325(1):21–7

Intracellular Ca2+ and contractile responses to alpha 1–adrenoceptor subtype activation in rat aortic vascular smooth muscle. Tognarini DP, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):31–6

Calcium–dependent, sustained enhancement of excitability during washout of aconitine in rat hippocampal slices. Ameri A, et al. **Exp Brain Res** 1997 May;114(3):518–24

A Ca(2+)–dependent early functional heterogeneity in amoebae of Dictyostelium discoideum, revealed by flow cytometry. Azhar M, et al. **Exp Cell Res** 1996 Sep 15; 227(2):344–51

The changes of stratum corneum interstices and calcium distribution of follicular epithelium of experimentally induced comedones (EIC) by oleic acid. Choi EH, et al. **Exp Dermatol** 1997 Feb;6(1):29–35

Differential inhibition by riluzole, lamotrigine, and phenytoin of sodium and calcium currents in cortical neurons: implications for neuroprotective strategies. Stefani A, et al. **Exp Neurol** 1997 Sep;147(1):115–22

Ca2+ signalling in cultured smooth muscle cells from human bladder. Chambers P, et al. **Exp Physiol** 1996 Jul; 81(4):553–64

Perimetric [Ca2+]i rise and exocytosis detected by ultraviolet laser scanning confocal microscopy in rat peritoneal mast cells. Habara Y, et al. **Exp Physiol** 1996 May;81(3):319–28

Roles of NO and Ca2+–activated K+ channels in coronary vasodilation induced by 17beta–estradiol in ischemic heart failure. Node K, et al. **FASEB J** 1997 Aug;11(10):793–9

The endogenous cardiac sarcoplasmic reticulum Ca2+/calmodulin–dependent kinase is activated in response to beta–adrenergic stimulation and becomes Ca2+–independent in intact beating hearts. Baltas LG, et

al. **FEBS Lett** 1997 Jun 9;409(2):131–6

Repetitive Ca2+ spikes in a unicellular green alga. Bauer CS, et al. **FEBS Lett** 1997 Apr 1;405(3):390–3

Hyaluronan activates calcium–dependent chloride currents in Xenopus oocytes. Fraser SP. **FEBS Lett** 1997 Mar 3; 404(1):56–60

Calcium– and pH–linked oligomerization of sorcin causing translocation from cytosol to membranes. Zamparelli C, et al. **FEBS Lett** 1997 Jun 2;409(1):1–6

Involvement of calcium in interactions between gingival epithelial cells and Porphyromonas gingivalis. Izutsu KT, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):145–50

Hypoxic contractile response in isolated rat thoracic aorta: role of endothelium, extracellular calcium and endothelin. Pape D, et al. **Fundam Clin Pharmacol** 1997;11(2):121–6

Regulation of mucin secretion in human gallbladder epithelial cells: predominant role of calcium and protein kinase C. Dray–Charier N, et al. **Gastroenterology** 1997 Mar; 112(3):978–90

Ethanol perturbs receptor–operated cytosolic free calcium concentration signals in cultured rat hepatocytes. Zhang BH, et al. **Gastroenterology** 1997 Aug;113(2):641–8

Neuronal cell death in the mammalian nervous system: the calmortin hypothesis. Bennett MR, et al. **Gen Pharmacol** 1996 Apr;27(3):407–19 (220 ref.)

Calcium and depolarization–dependent effect of pregnenolone derivatives on uterine smooth muscle. Hidalgo A, et al. **Gen Pharmacol** 1996 Jul;27(5):879–85

Mechanics of manganese ions–induced contraction of ileal longitudinal muscle in Ca(2+)–free, high–K+ medium. Nasu T, et al. **Gen Pharmacol** 1997 Apr;28(4):503–7

Twitch responses dependent on external calcium ions in the mouse diaphragm in a potassium–free bathing solution. Nishimura M, et al. **Gen Pharmacol** 1996 Apr;27(3):459–61

Cardiac electrophysiological effects of levosimendan, a new calcium sensitizer. Virág L, et al. **Gen Pharmacol** 1996 Apr; 27(3):551–6

Computer simulation of excitation–contraction coupling in cardiac muscle. A study of the regulatory role of calcium binding to troponin C. Michailova A, et al. **Gen Physiol Biophys** 1997 Mar;16(1):29–38

A novel function of the C–terminal lipid moieties of Rab3A small G protein implicated in Ca2+–dependent exocytosis—inhibition of interaction with GTP and reduction of this inhibition by phospholipid. Jin–no Y, et al. **Genes Cells** 1997 Apr;2(4):273–88

Involvement of Rho and Rac small G proteins and Rho GDI in Ca2+–dependent exocytosis from PC12 cells. Komuro R, et al. **Genes Cells** 1996 Oct;1(10):943–51

Calcium modulates the synthesis of prostaglandin E2 in isolated colonic mucosal cells. Schmidt C, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):84–9

Phospholipase D activation in hepatocyte growth factor–stimulated rat hepatocytes mediates the expressions of c–jun and c–fos: involvement of protein tyrosine kinase, protein kinase C, and Ca2+. Adachi T, et al. **Hepatology** 1996 Nov;24(5):1274–81

Calcium–dependent DNA damage and adenosine 3',5'–cyclic monophosphate–independent glycogen phosphorylase activation in an in vitro model of acetaminophen–induced liver injury. Salas VM, et al. **Hepatology** 1997 Jun; 25(6):1432–8

Cyclic AMP and calcium in the transduction of hypothalamic neurohormone action in human pituitary tumors. Spada A, et al. **Horm Res** 1997;47(4–6):235–9 (38 ref.)

The human sperm acrosome reaction: physiology and regulatory mechanisms. An update. Brucker C, et al. **Hum Reprod Update** 1995 Jan;1(1):51–62 (103 ref.)

Sulfide influence on polymorphonuclear functions: a possible role for Ca2+ involvement. Mariggiò MA, et al. **Immunopharmacol Immunotoxicol** 1997 Aug;19(3):393–404

The role of calcium in the regulation of invasion and angiogenesis. Alessandro R, et al. **In Vivo** 1996 Mar–Apr; 10(2):153–60 (61 ref.)

Natural killer and lectin–dependent cytotoxic activities of Kurloff cells: target cell selectivity, conjugate formation, and Ca++ dependency. Pouliot N, et al. **Inflammation** 1996 Dec;20(6):647–71

Modulating Ca2+ in radiation–induced apoptosis suppresses DNA fragmentation but does not enhance clonogenic survival. Voehringer DW, et al. **Int J Radiat Biol** 1997 Mar;71(3):237–43

Calcium independent contraction of bladder smooth muscle. Yoshimura Y, et al. **Int J Urol** 1997 Jan;4(1):62–7

Effect of intermittent weight bearing on soleus fiber force–velocity–power and force–pCa relationships. Bangart JJ, et al. **J Appl Physiol** 1997 Jun;82(6):1905–10

A soluble sperm factor gates Ca(2+)–activated K+ channels in human oocytes. Dale B, et al. **J Assist Reprod Genet** 1996 Aug;13(7):573–7

Na+–induced structural change of a soil bacterium, S34, and Ca2+ requirement for preserving its original structure. Mitsui H, et al. **J Bacteriol** 1997 May;179(10):3350–3

Calcium is required for swimming by the nonflagellated cyanobacterium Synechococcus strain WH8113. Pitta TP, et al. **J Bacteriol** 1997 Apr;179(8):2524–8

Function and inhibition of intracellular calcium–independent phospholipase A2. Balsinde J, et al. **J Biol Chem** 1997 Jun 27;272(26):16069–72 (44 ref.)

Depletion of intracellular calcium stores activates a calcium conducting nonselective cation current in mouse pancreatic acinar cells. Krause E, et al. **J Biol Chem** 1996 Dec 20; 271(51):32523–8

Gelsolin binding to phosphatidylinositol 4,5–bisphosphate is modulated by calcium and pH. Lin KM, et al. **J Biol Chem** 1997 Aug 15;272(33):20443–50

Ras–dependent, Ca2+–stimulated activation of nuclear factor of activated T cells by a constitutively active Cbl mutant in T cells. Liu YC, et al. **J Biol Chem** 1997 Jan 3;272(1):168–73

Desensitization of gonadotropin–releasing hormone action in alphaT3–1 cells due to uncoupling of inositol 1,4,5–trisphosphate generation and Ca2+ mobilization. McArdle CA, et al. **J Biol Chem** 1996 Sep 27; 271(39):23711–7

Physical and functional interactions of Doc2 and Munc13 in Ca2+–dependent exocytotic machinery. Orita S, et al. **J Biol Chem** 1997 Jun 27;272(26):16081–4

Opposite effect of intracellular Ca2+ and protein kinase C on the expression of inwardly rectifying K+ channel 1 in mouse skeletal muscle. Shin KS, et al. **J Biol Chem** 1997 Aug 22;272(34):21227–32

Differential Ca2+ signaling induced by activation of the epidermal growth factor and nerve growth factor receptors. Tinhofer I, et al. **J Biol Chem** 1996 Nov 29; 271(48):30505–9

Opioid peptide gene expression in the primary hereditary cardiomyopathy of the Syrian hamster. II. Role of intracellular calcium loading. Ventura C, et al. **J Biol Chem** 1997 Mar 7;272(10):6693–8

A re–examination of calcium activation in the Huxley cross–bridge model. Zahalak GI, et al. **J Biomech Eng** 1997 Feb;119(1):20–9

Platelet–polymer interactions: morphologic and intracellular free calcium studies of individual human platelets. Waples LM, et al. **J Biomed Mater Res** 1996 Sep;32(1):65–76

Regulation of interleukin–6 secretion from mononuclear blood cells by extracellular calcium. Bornefalk E, et al. **J Bone Miner Res** 1997 Feb;12(2):228–33

Role of protein kinase C alpha, Arf, and cytoplasmic calcium transients in phospholipase D activation by sodium fluoride in osteoblast–like cells. Bourgoin SG, et al. **J Bone Miner Res** 1996 Nov;11(11):1655–65

Calcium sensitization via troponin–C: a new approach for the treatment of heart failure. Proceedings of an international symposium in association with the joint XIIth World Congress of Cardiology and XVIth Congress of the European Society of Cardiology. Berlin, Germany, September 10, 1994. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S1–84

Role of calcium in angiotensin II–induced prostaglandin release and DNA synthesis in rat vascular smooth muscle cells. Catalioto RM, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):195–200

In vivo evidence of positive inotropism of EMD 57033 through calcium sensitization. Haeusler G, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):647–55

Mechanisms of action of calcium–sensitizing drugs. Haikala H, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S10–9 (33 ref.)

Will calcium sensitizers play a role in the treatment of heart failure? Nielsen–Kudsk JE, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S77–84 (57 ref.)

Regulation of myocardial contractility. Opie LH. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S1–9 (30 ref.)

Classification of positive inotropic actions based on electrophysiologic characteristics: where should calcium sensitizers be placed? Varro A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S32–44 (97 ref.)

Hemodynamic effects of calcium–sensitizing agents. Vegh A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S20–31 (98 ref.)

L–arginine enhances functional recovery and Ca(2+)–dependent nitric oxide synthase activity after ischemia and reperfusion in the rat heart. Wang QD, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):291–6

Mitochondrial participation in the intracellular Ca2+ network. Babcock DF, et al. **J Cell Biol** 1997 Feb 24; 136(4):833–44

Mitochondrial regulation of store–operated calcium signaling in T lymphocytes. Hoth M, et al. **J Cell Biol** 1997 May 5;137(3):633–48

Activation of Cl– channels by extracellular Ca2+ in freshly isolated rabbit osteoclasts. Fujita H, et al. **J Cell Physiol** 1996 Oct;169(1):217–25

Angiotensin II–induced fluid phase endocytosis in human cerebromicrovascular endothelial cells is regulated by the inositol–phosphate signaling pathway. Stanimirovic D, et al. **J Cell Physiol** 1996 Dec;169(3):455–67

Calcium–dependent bidirectional power stroke of the dynein arms in sea urchin sperm axonemes. Ishijima S, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2833–42

Enhanced E–cadherin expression and increased calcium–dependent cell–cell adhesion in human T–cell leukemia virus type I Tax–expressing PC12 cells. Kitajima I, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):609–17

Calcium ion dependency and the role of inositol phosphates in melatonin–induced encystment of dinoflagellates. Tsim ST, et al. **J Cell Sci** 1997 Jun;110 (Pt 12):1387–93

Control of pulsatile and tonic parathyroid hormone secretion by ionized calcium. Schmitt CP, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4236–43

Apical extracellular calcium/polyvalent cation–sensing receptor regulates vasopressin–elicited water permeability in rat kidney inner medullary collecting duct. Sands JM, et al. **J Clin Invest** 1997 Mar 15;99(6):1399–405

Bombesin–induced gastrin release from canine G cells is stimulated by Ca2+ but not by protein kinase C, and is enhanced by disruption of rho/cytoskeletal pathways. Seensalu R, et al. **J Clin Invest** 1997 Sep 1;100(5):1037–46

Oxygen–induced constriction of rabbit ductus arteriosus occurs via inhibition of a 4–aminopyridine–, voltage–sensitive potassium channel [see comments] Tristani–Firouzi M, et al. **J Clin Invest** 1996 Nov 1; 98(9):1959–65. Comment in: J Clin Invest 1996 Nov 1;98(9):1945–6.

Growth cone calcium elevation by GABA. Obrietan K, et al. **J Comp Neurol** 1996 Aug 19;372(2):167–75

Elementary and global aspects of calcium signalling. Berridge MJ. **J Exp Biol** 1997 Jan;200 (Pt 2):315–9 (25 ref.)

The role of Ca2+ in deflection–induced excitation of motile, mechanoresponsive balancer cilia in the ctenophore statocyst. Lowe B. **J Exp Biol** 1997 Jun;200 (Pt 11):1593–606

Comparison of Ca2+ currents of peptidergic neurons developing differing morphology with time in culture. Meyers DE, et al. **J Exp Biol** 1997 Feb;200 (Pt 4):723–33

Intracellular Ca2+ signalling in secretory cells. Shuttleworth TJ. **J Exp Biol** 1997 Jan;200 (Pt 2):303–14 (90 ref.)

Rat spleen dendritic cells express natural killer cell receptor protein 1 (NKR–P1) and have cytotoxic activity to select targets via a Ca2+–dependent mechanism. Josien R, et al. **J Exp Med** 1997 Aug 4;186(3):467–72

Activation of calcium–dependent chloride channels in rat parotid acinar cells. Arreola J, et al. **J Gen Physiol** 1996 Jul;108(1):35–47

Separation of gating properties from permeation and block in mslo large conductance Ca–activated K+ channels. Cox DH, et al. **J Gen Physiol** 1997 May;109(5):633–46

Allosteric gating of a large conductance Ca–activated K+ channel. Cox DH, et al. **J Gen Physiol** 1997 Sep; 110(3):257–81

Intrinsic voltage dependence and Ca2+ regulation of mslo large conductance Ca–activated K+ channels. Cui J, et al. **J Gen Physiol** 1997 May;109(5):647–73

Interaction of internal Ba2+ with a cloned Ca(2+)–dependent K+ (hslo) channel from smooth muscle. Diaz F, et al. **J Gen Physiol** 1996 Mar; 107(3):399–407

Light adaptation in Pecten hyperpolarizing photoreceptors. Insensitivity to calcium manipulations. Gomez MP, et al. **J Gen Physiol** 1997 Mar;109(3):371–84

Adrenaline stimulates glucagon secretion in pancreatic A–cells by increasing the Ca2+ current and the number of granules close to the L–type Ca2+ channels. Gromada J, et al. **J Gen Physiol** 1997 Sep;110(3):217–28

Activation of different Cl currents in Xenopus oocytes by Ca liberated from stores and by capacitative Ca influx. Hartzell HC. **J Gen Physiol** 1996 Sep;108(3):157–75

Ca(2+)–induced Ca2+ release phenomena in mammalian sympathetic neurons are critically dependent on the rate of rise of trigger Ca2+. Hernández–Cruz A, et al. **J Gen Physiol** 1997 Feb;109(2):147–67

Anomalous regulation of the Drosophila Na(+)–Ca2+ exchanger by Ca2+. Hryshko LV, et al. **J Gen Physiol** 1996 Jul;108(1):67–74

Actions of Ca2+ on an early stage in phototransduction revealed by the dynamic fall in Ca2+ concentration during the bright flash response. Matthews HR. **J Gen Physiol** 1997 Feb;109(2):141–6

Hypothesis for a serine proteinase–like domain at the COOH terminus of Slowpoke calcium–activated potassium channels. Moss GW, et al. **J Gen Physiol** 1996 Dec; 108(6):473–84 (82 ref.)

Subconductance states of a mutant NMDA receptor channel kinetics, calcium, and voltage dependence. Premkumar LS, et al. **J Gen Physiol** 1997 Feb;109(2):181–9

Redox regulation of large conductance Ca(2+)–activated K+ channels in smooth muscle cells. Wang ZW, et al. **J Gen Physiol** 1997 Jul;110(1):35–44

Slowed relaxation in fatigued skeletal muscle fibers of Xenopus and Mouse. Contribution of [Ca2+]i and cross–bridges. Westerblad H, et al. **J Gen Physiol** 1997 Mar; 109(3):385–99

Two metabotropic gamma–aminobutyric acid receptors differentially modulate calcium currents in retinal ganglion cells. Zhang J, et al. **J Gen Physiol** 1997 Jul;110(1):45–58

Review: the central role of calcium in the pathogenesis of cardiovascular disease. Haller H, et al. **J Hum Hypertens** 1996 Mar;10(3):143–55 (79 ref.)

Intracellular Ca2+ elevation and cyclosporin A synergistically induce TGF–beta 1–mediated apoptosis in lymphocytes. Andjelić S, et al. **J Immunol** 1997 Mar 15; 158(6):2527–34

A Ca2+–dependent autoregulation of lipopolysaccharide–induced IL–8 receptor expression in human polymorphonuclear neutrophils. Bhattacharya C, et al. **J Immunol** 1997 Feb 1;158(3):1293–301

Monocytes can phagocytose Gram–negative bacteria by a CD14–dependent mechanism. Grunwald U, et al. **J Immunol** 1996 Nov 1;157(9):4119–25

Activation of nuclear factor–kappaB via T cell receptor requires a Raf kinase and Ca2+ influx. Functional synergy between Raf and calcineurin. Kanno T, et al. **J Immunol** 1996 Dec 15;157(12):5277–83

Differential activation of human platelets induced by Fc

gamma receptor II cross-linking and by anti-CD9 monoclonal antibody. Qi R, et al. **J Immunol** 1996 Dec 15;157(12):5638–45
Cyclosporine-insensitive partial signaling and multiple roles of Ca2+ in Fas ligand-induced lysis. Rogers AM, et al. **J Immunol** 1997 Oct 1;159(7):3140–7
Keratinocyte K+ channels mediate Ca2+-induced differentiation. Mauro T, et al. **J Invest Dermatol** 1997 Jun; 108(6):864–70
The role of calcium in human lymphocyte DNA repair ability. Gafter U, et al. **J Lab Clin Med** 1997 Jul; 130(1):33–41
Monocyte chemoattractant protein-1: receptor interactions and calcium signaling mechanisms. Needham M, et al. **J Leukoc Biol** 1996 Dec;60(6):793–803
Excitation-calcium release uncoupling in aged single human skeletal muscle fibers. Deibono O, et al. **J Membr Biol** 1995 Dec;148(3):211–22
Alkaline pH and internal calcium increase Na+ and K+ effluxes in LK sheep red blood cells in Cl−-free solutions. Ortiz-Carranza O, et al. **J Membr Biol** 1997 Apr 1; 156(3):287–95
Cl- currents activated by extracellular nucleotides in human bronchial cells. Zegarra-Moran O, et al. **J Membr Biol** 1997 Apr 1;156(3):297–305
Expression of calcium channels in adult cardiac myocytes is regulated by calcium. Davidoff AJ, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1791–803
A cardiac muscle model relating sarcomere dynamics to calcium kinetics. Negroni JA, et al. **J Mol Cell Cardiol** 1996 May;28(5):915–29
Endocardial endothelium and myocardial performance in rats: effects of changing extracellular calcium and phenylephrine. Qi X, et al. **J Mol Cell Cardiol** 1996 May; 28(5):859–69
Ryanodine perfusion decreases cardiac mechanical function without affecting homogenate sarcoplasmic reticulum Ca2+ uptake: comparison with the stunned heart. Wu QY, et al. **J Mol Cell Cardiol** 1996 May;28(5):943–55
Importance of calcium for the vulnerability to ventricular fibrillation detected by premature ventricular stimulation: single pulse versus sequential pulse methods. Zaugg CE, et al. **J Mol Cell Cardiol** 1996 May;28(5):1059–72
Calcium signalling in muscle. An international symposium held at Muskelzentrum, Universität Ulm, 5–7 October 1995. Rüdel R. **J Muscle Res Cell Motil** 1996 Jun;17(3):373–4
Ca2+/calmodulin-dependent transcriptional activation of neuropeptide Y gene induced by membrane depolarization: determination of Ca(2+)- and cyclic AMP/phorbol 12-myristate 13-acetate-responsive elements. Higuchi H, et al. **J Neurochem** 1996 May;66(5):1802–9
Implication of Ca(2+)-dependent protein tyrosine phosphorylation in carbachol-induced phospholipase D activation in rat pheochromocytoma PC12 cells. Ito Y, et al. **J Neurochem** 1997 Jan;68(1):419–25
Calcium binds dynamin I and inhibits its GTPase activity. Liu JP, et al. **J Neurochem** 1996 May;66(5):2074–81
Mortyn Jones Memorial Lecture—1995. Calcium checks cyclic AMP—corticosteroid feedback in adenohypophysial corticotrophs. Antoni FA. **J Neuroendocrinol** 1996 Sep; 8(9):659–72 (153 ref.)
Metabotropic glutamate receptors coupled to IP3 production mediate inhibition of IAHP in rat dentate granule neurons. Abdul-Ghani MA, et al. **J Neurophysiol** 1996 Oct; 76(4):2691–700
Presynaptic inhibition of calcium-dependent and -independent release elicited with ionomycin, gadolinium, and alpha-latrotoxin in the hippocampus. Capogna M, et al. **J Neurophysiol** 1996 May;75(5):2017–28
Synaptic structural complexity as a factor enhancing probability of calcium-mediated transmitter release. Cooper RL, et al. **J Neurophysiol** 1996 Jun;75(6):2451–66
Decreased duration of Ca(2+)-mediated plateau potentials in striatal neurons from aged rats. Dunia R, et al. **J Neurophysiol** 1996 Oct;76(4):2353–63
Presynaptic calcium dynamics at the frog retinotectal synapse. Feller MB, et al. **J Neurophysiol** 1996 Jul; 76(1):381–400
Two types of BK channels in immature rat neocortical pyramidal neurons. Kang J, et al. **J Neurophysiol** 1996 Dec; 76(6):4194–7
Ionic mechanisms of muscarinic depolarization in entorhinal cortex layer II neurons. Klink R, et al. **J Neurophysiol** 1997 Apr;77(4):1829–43
Parapodial swim muscle in Aplysia brasiliana. II. Ca(2+)-dependent K+ currents in isolated muscle fibers and their blockade by chloride substitutes. Laurienti PJ, et al. **J Neurophysiol** 1996 Sep;76(3):1531–9
Long-term depression of Aplysia sensorimotor synapses in cell culture: inductive role of a rise in postsynaptic calcium. Lin XY, et al. **J Neurophysiol** 1996 Sep;76(3):2111–4
Dynamic, spatially nonuniform calcium regulation in frog rods exposed to light. McCarthy ST, et al. **J Neurophysiol** 1996 Sep;76(3):1991–2004
Role of potassium and calcium in the generation of cellular bursts in the dentate gyrus. Pan E, et al. **J Neurophysiol** 1997 May;77(5):2293–9
Calcium dependence of LTP induced by 2-deoxyglucose in CA1 neurons. Tekkök S, et al. **J Neurophysiol** 1996 Oct; 76(4):2343–52
Regulation of synaptic facilitation by postsynaptic Ca2+/CaM pathways in hippocampal CA1 neurons. Wang JH, et al. **J Neurophysiol** 1996 Jul;76(1):276–86
Mediation by intracellular calcium-dependent signals of hypoxic hyperpolarization in rat hippocampal CA1 neurons in vitro. Yamamoto S, et al. **J Neurophysiol** 1997 Jan; 77(1):386–92
GABA stimulates chemotaxis and chemokinesis of embryonic cortical neurons via calcium-dependent mechanisms. Behar TN, et al. **J Neurosci** 1996 Mar 1;16(5):1808–18
Tissue-specific expression of a Ca(2+)-activated K+ channel is controlled by multiple upstream regulatory elements. Brenner R, et al. **J Neurosci** 1996 Mar 1; 16(5):1827–35
Aging changes in voltage-gated calcium currents in hippocampal CA1 neurons. Campbell LW, et al. **J Neurosci** 1996 Oct 1;16(19):6286–95
Kinetics, Ca2+ dependence, and biophysical properties of integrin-mediated mechanical modulation of transmitter release from frog motor nerve terminals. Chen BM, et al. **J Neurosci** 1997 Feb 1;17(3):904–16
Intracellular calcium transients and potassium current oscillations evoked by glutamate in cultured rat astrocytes. Chen J, et al. **J Neurosci** 1997 Oct 1;17(19):7278–87
Calcium-dependent paired-pulse facilitation of miniature EPSC frequency accompanies depression of EPSCs at hippocampal synapses in culture. Cummings DD, et al. **J Neurosci** 1996 Sep 1;16(17):5312–23
Laminar localization, morphology, and physiological properties of pyramidal neurons that have the low-threshold calcium current in the guinea-pig medial frontal cortex. de la Peña E, et al. **J Neurosci** 1996 Sep 1;16(17):5301–11
Contributions of calcium-dependent and calcium-independent mechanisms to presynaptic inhibition at a cerebellar synapse. Dittman JS, et al. **J Neurosci** 1996 Mar 1;16(5):1623–33
Reduction of calcium currents by Lambert-Eaton syndrome sera: motoneurons are preferentially affected, and L-type currents are spared. García KD, et al. **J Neurosci** 1996 Aug 15;16(16):4903–13
Amphetamine and dopamine-induced immediate early gene expression in striatal neurons depends on postsynaptic NMDA receptors and calcium. Konradi C, et al. **J Neurosci** 1996 Jul 1;16(13):4231–9
The role of calcium in the desensitization of capsaicin responses in rat dorsal root ganglion neurons. Koplas PA, et al. **J Neurosci** 1997 May 15;17(10):3525–37
T-type Ca2+ current properties are not modified by Ca2+ channel beta subunit depletion in nodosus ganglion neurons. Lambert RC, et al. **J Neurosci** 1997 Sep 1;17(17):6621–8
Low-threshold Ca2+ currents in dendritic recordings from Purkinje cells in rat cerebellar slice cultures. Mouginot D, et al. **J Neurosci** 1997 Jan 1;17(1):160–70
Characterization of functional GABAergic synapses formed between rat hypothalamic neurons and pituitary intermediate lobe cells in coculture: Ca2+ dependence of spontaneous IPSCs. Poisbeau P, et al. **J Neurosci** 1996 Aug 15;16(16):4835–45
Alteration of Ca2+ dependence of neurotransmitter release by disruption of Ca2+ channel/syntaxin interaction. Rettig J, et al. **J Neurosci** 1997 Sep 1;17(17):6647–56
Kappa-opioid receptor activation modulates Ca2+ currents and secretion in isolated neuroendocrine nerve terminals. Rusin KI, et al. **J Neurosci** 1997 Sep 1;17(17):6565–74
Unique postsynaptic signaling at the hair cell efferent synapse permits calcium to evoke changes on two time scales. Sridhar TS, et al. **J Neurosci** 1997 Jan 1;17(1):428–37
Rapid coupling of calcium release to depolarization in Limulus polyphemus ventral photoreceptors as revealed by microphotolysis and confocal microscopy. Ukhanov K, et al. **J Neurosci** 1997 Mar 1;17(5):1701–9
Evidence that cysteine string proteins regulate an early step in the Ca2+-dependent secretion of neurotransmitter at Drosophila neuromuscular junctions. Umbach JA, et al. **J Neurosci** 1997 Oct 1;17(19):7203–9
Mechanism involved in initiation and propagation of receptor-induced intercellular calcium signaling in cultured rat astrocytes. Venance L, et al. **J Neurosci** 1997 Mar 15; 17(6):1981–92
Impact of cytoplasmic calcium buffering on the spatial and temporal characteristics of intercellular calcium signals in astrocytes. Wang Z, et al. **J Neurosci** 1997 Oct 1; 17(19):7359–71
Distinct contributions of high- and low-voltage-activated calcium currents to afterhyperpolarizations in cholinergic nucleus basalis neurons of the guinea pig. Williams S, et al. **J Neurosci** 1997 Oct 1;17(19):7307–15
Gain of rod to horizontal cell synaptic transfer: relation to glutamate release and a dihydropyridine-sensitive calcium current. Witkovsky P, et al. **J Neurosci** 1997 Oct 1; 17(19):7297–306
Regulation by calcium of the nitric oxide/cyclic GMP system in cerebellar granule cells and astroglia in culture. Baltrons MA, et al. **J Neurosci Res** 1997 Aug 1;49(3):333–41
Receptor-mediated calcium signalling in glial cells from mouse corpus callosum slices. Bernstein M, et al. **J Neurosci Res** 1996 Oct 15;46(2):152–63
Regulatory volume decrease and associated osmolyte fluxes in cerebellar granule neurons are calcium independent. Morán J, et al. **J Neurosci Res** 1997 Jan 15;47(2):144–54
Calcium-dependent release of endogenous glutamate from vascularly perfused rat stomach in vitro. Okuma Y, et al. **J Neurosci Res** 1996 Jun 1;44(5):507–11
Restriction of microM-calcium-requiring calpain activation to the plasma membrane in human neuroblastoma cells: evidence for regionalized influence of a calpain activator protein. Shea TB. **J Neurosci Res** 1997 Jun 15;48(6):543–50
Dysregulation of calcium homeostasis after severe burn injury in children: possible role of magnesium depletion. Klein GL, et al. **J Pediatr** 1997 Aug;131(2):246–51
Effects of prolonged ethinyl estradiol treatment on calcium channel binding and in vivo calcium-mediated hemodynamic responses in ovariectomized rats. Bowling N, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):218–25
Characterization of vanadyl sulfate effect on vascular contraction: roles of calcium and tyrosine phosphorylation. Cadène A, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):491–8
Role of nitric oxide and Ca++-dependent K+ channels in mediating heterogeneous microvascular responses to acetylcholine in different vascular beds. Clark SG, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1473–9
Activation of phospholipase D by endothelin-1 in rat myometrium. Role of calcium and protein kinase C. Naze S, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):15–23
Spinal morphine/clonidine antinociceptive synergism: involvement of G proteins and N-type voltage-dependent calcium channels. Wei ZY, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1392–407
Tyrosine kinase inhibitors enhance a Ca(2+)-activated K+ current (IAHP) and reduce IAHP suppression by a metabotropic glutamate receptor agonist in rat dentate granule neurones. Abdul-Ghani MA, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):139–44
Ca(2+)-dependent non-selective cation and potassium channels activated by bradykinin in pig coronary artery endothelial cells. Baron A, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):691–706
Elementary and global aspects of calcium signalling. Berridge MJ. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):290–306 (117 ref.)
Imaging the hierarchical Ca2+ signalling system in HeLa cells. Bootman M, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):307–14
Ca(2+)-activated K+ channels in rat otic ganglion cells: role of Ca2+ entry via Ca2+ channels and nicotinic receptors. Callister RJ, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):571–82
Ca(2+)-induced Ca2+ release mediates Ca2+ transients evoked by single action potentials in rabbit vagal afferent neurones. Cohen AS, et al. **J Physiol (Lond)** 1997 Mar 1; 499 (Pt 2):315–28
Sources of Ca2+ for different Ca(2+)-activated K+ conductances in neurones of the rat superior cervical ganglion. Davies PJ, et al. **J Physiol (Lond)** 1996 Sep 1; 495 (Pt 2):353–66
Calcium-activated chloride current in normal mouse sympathetic ganglion cells. De Castro F, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):397–408
Endocytosis of secretory granules in mouse pancreatic beta-cells evoked by transient elevation of cytosolic calcium. Eliasson L, et al. **J Physiol (Lond)** 1996 Jun 15; 493 (Pt 3):755–67
Neurokinin A and Ca2+ current induce Ca(2+)-activated Cl(-) currents in guinea-pig tracheal myocytes. Hazama H, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):377–93
Calcium gradients during excitation-contraction coupling in cat atrial myocytes. Hüser J, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):641–51
Ionic mechanisms of Ca(2+)-dependent electrolyte transport across equine sweat gland epithelium. Ko WH, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):885–94
Lasting effects of glutamate on nuclear calcium concentration in cultured rat hippocampal neurons: regulation by calcium stores [published erratum appears in J Physiol (Lond) 1996 Dec 15;497(Pt 3):857] Korkotian E, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):39–48
Ca(2+)-dependent inactivation of NMDA receptors: fast kinetics and high Ca2+ sensitivity in rat dorsal horn neurons. Kyrozis A, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):449–63
Oscillatory bursting of phasically firing rat supraoptic neurones in low-Ca2+ medium: Na+ influx, cytosolic Ca2+ and gap junctions. Li Z, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):379–94
The prostacyclin analogue carbacyclin inhibits Ca(2+)-activated K+ current in aortic baroreceptor neurones of rats. Li Z, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):275–87
To quark or to spark, that is the question. Lipp P, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):1 (8 ref.)
Calcium-activated chloride channels in bovine pulmonary artery endothelial cells. Nilius B, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):381–96
Necrosis and apoptosis associated with distinct Ca2+ response patterns in target cells attacked by human natural killer cells. Oshimi Y, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):319–29
Ca(2+)- and GTP-dependent exocytosis in mouse pancreatic beta-cells involves both common and distinct steps. Proks P, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):255–64
High Ca2+ concentrations induce a low activity mode and reveal Ca2(+)-independent long shut intervals in BK channels from rat muscle. Rothberg BS, et al.

J Physiol (Lond) 1996 Jun 15;493 (Pt 3):673–89
Activation of protein kinase C inhibits calcium–activated potassium channels in rat pituitary tumour cells. Shipston MJ, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):665–72
Calcium–dependent prepotentials contribute to spontaneous activity in rat tuberomammillary neurons. Stevens DR, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):747–54
Ca2+ responses to ATP via purinoceptors in the early embryonic chick retina. Sugioka M, et al.
J Physiol (Lond) 1996 Jun 15;493 (Pt 3):855–63
Cholinergic inhibition of Ca2+ current in guinea–pig gastric and tracheal smooth muscle cells. Wade GR, et al.
J Physiol (Lond) 1996 Mar 1;491 (Pt 2):307–19
The role of Na(+)–Ca2+ exchange in activation of excitation–contraction coupling in rat ventricular myocytes. Wasserstrom JA, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):529–42
Noradrenaline modulates transmitter release by enhancing the Ca2+ sensitivity of exocytosis in the chick ciliary presynaptic terminal. Yawo H. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):385–91
Temporal specificity of muscarinic synaptic modulation of the Ca(2+)–dependent K+ current (ISAHP) in rat hippocampal neurones. Zhang L, et al.
J Physiol (Lond) 1996 Oct 15;496 (Pt 2):395–405
Postsynaptic calcium and calcium–dependent processes in synaptic plasticity in the developing visual cortex. Tsumoto T, et al. **J Physiol Paris** 1996;90(3–4):151–6 (21 ref.)
Head–activator induced mitosis of NH15–CA2 cells requires calcium influx and hyperpolarization. Ulrich H, et al.
J Physiol Paris 1996;90(2):85–94
The PHA–induced calcium signal in lymphocytes is altered after blockade of K(+)–channels in Alzheimer's disease. Bondy B, et al. **J Psychiatr Res** 1996 May–Jun;30(3):217–27
Dual roles of phorbol 12, 13–dibutyrate in the regulation of guinea–pig gastric contraction. Ahn SC, et al.
J Smooth Muscle Res 1997 Feb;33(1):11–22
Role of calcium in lipopolysaccharide–stimulated tumor necrosis factor and interleukin–1 signal transduction in naive and endotoxin–tolerant murine macrophages. West MA, et al. **J Trauma** 1996 Oct;41(4):647–52
Calcium regulation of urinary bladder function. Damaser MS, et al. **J Urol** 1997 Feb;157(2):732–8
Calcium–dependent and calcium–independent activation of the endothelial NO synthase. Fleming I, et al.
J Vasc Res 1997 May–Jun;34(3):165–74 (57 ref.)
Inhibition of calcium entry preserves contractility of arterial smooth muscle in culture. Lindqvist A, et al.
J Vasc Res 1997 Mar–Apr;34(2):103–8
Memory of previous receptor activation induces a delay in Ca2+ mobilization and decreases the [Ca2+]i sensitivity of arterial contractions. Ratz PH, et al. **J Vasc Res** 1996 Nov–Dec;33(6):489–98
Tyrosine phosphorylation and regulation of swine carotid artery contraction. Rembold CM, et al. **J Vasc Res** 1997 Jan–Feb;34(1):1–10
Estrogen does not induce the calcium–dependent nitric oxide synthase in cultured human uterine endothelial and myometrial smooth muscle cells. Tschugguel W, et al.
J Vasc Res 1997 Jul–Aug;34(4):281–8
Mechanism of the negative force–frequency relationship in physiologically intact rat ventricular myocardium––studies by intracellular Ca2+ monitor with indo–1 and by 31P–nuclear magnetic resonance spectroscopy. Morii I, et al. **Jpn Circ J** 1996 Aug;60(8):593–603
The role of extracellular cations in the development of myogenic contraction in isolated rat small arteries. Watanabe J, et al. **Jpn Circ J** 1996 Apr;60(4):239–46
Regulation of vascular smooth muscle contraction. The roles of Ca2+, protein kinase C and myosin light chain phosphatase. Takuwa Y. **Jpn Heart J** 1996 Nov; 37(6):793–813 (116 ref.)
Role of calcium ions in the potentiation by isoproterenol of carbachol–induced ionic currents and secretion activity in rat salivary glands. Hirono C, et al. **Jpn J Physiol** 1997; 47 Suppl 1:S60–1
Coordination in oscillatory Ca2+ signalling in endocrine and exocrine pancreas. Kanno T, et al. **Jpn J Physiol** 1997;47 Suppl 1:S16–7
The role of Ca2+ in the glucagon–induced enhancement of electrical activity of pancreatic beta–cells. Kitasato H, et al. **Jpn J Physiol** 1997;47 Suppl 1:S29–31
Interaction between the L–type Ca2+ channel and the Ca(2+)–activated K+ channel in the fluctuating myogenic contraction in the rabbit basilar artery. Omote M, et al. **Jpn J Physiol** 1996 Aug;46(4):353–6
In vivo assessments of calcium–regulated parathyroid hormone release in secondary hyperparathyroidism [editorial] Goodman WG, et al. **Kidney Int** 1996 Dec; 50(6):1834–44 (77 ref.)
High phosphorus diet increases preproPTH mRNA independent of calcium and calcitriol in normal rats. Hernández A, et al. **Kidney Int** 1996 Dec;50(6):1872–8
Calcium regulation of a cell surface nucleic acid channel. Leal–Pinto E, et al. **Kidney Int Suppl** 1996 Dec;57:S4–10
Thromboxane A2 receptor mediation of calcium and calcium transients in rat cardiomyocytes. Dogan S, et al.
Life Sci 1997;60(12):943–52
Three inherited disorders of calcium sensing. Pollak MR, et al. **Medicine (Baltimore)** 1996 May;75(3):115–23 (43 ref.)
Regulation of melanoma cell adhesion stabilization to fibronectin. Smith TW, et al. **Melanoma Res** 1996 Oct; 6(5):351–62
Activation of mitogen–activated protein kinase in freshly isolated rat hepatocytes by both a calcium– and a protein kinase C–dependent pathway. Romanelli A, et al.
Metabolism 1997 May;46(5):548–55
Ca(2+)/calmodulin–dependent kinase is essential for both growth and nuclear division in Aspergillus nidulans. Dayton JS, et al. **Mol Biol Cell** 1996 Oct;7(10):1511–9
Modification of annexin II expression in PC12 cell lines does not affect Ca(2+)–dependent exocytosis. Graham ME, et al. **Mol Biol Cell** 1997 Mar;8(3):431–42
Quantitative assessment of tuftsin receptor expression and second messenger during in vitro differentiation of peripheral blood derived monocytes of leprosy patients. Khare S, et al. **Mol Cell Biochem** 1997 Jun;171(1–2):1–10
Prevention by 7–oxo–prostacyclin of the calcium paradox in rat heart: role of the sarcolemmal (Na,K)–ATPase. Ziegelhöffer A, et al. **Mol Cell Biochem** 1996 Jul–Aug; 160–161:257–63
Functional heterogeneity of pituitary gonadotropes in response to a variety of neuromodulators. Billiard J.
Mol Cell Endocrinol 1996 Oct 30;123(2):163–70
1,25(OH)2–vitamin D3 stimulation of phospholipases C and D in muscle cells involves extracellular calcium and a pertussis–sensitive G protein. Morelli S, et al.
Mol Cell Endocrinol 1996 Sep 18;122(2):207–11
Thapsigargin–induced gene expression in nonexcitable cells is dependent on calcium influx. Rodland KD, et al.
Mol Endocrinol 1997 Mar;11(3):281–91
The role of ryanodine–sensitive Ca2+ stores in the Ca2+ oscillation machine of human oocytes. Sousa M, et al.
Mol Hum Reprod 1996 Apr;2(4):265–72
Cyclic AMP–independent inhibition of cardiac calcium current by forskolin. Asai T, et al. **Mol Pharmacol** 1996 Nov;50(5):1262–72
5–Hydroxytryptamine4 receptors reduce afterhyperpolarization in hippocampus by inhibiting calcium–induced calcium release. Torres GE, et al.
Mol Pharmacol 1996 Nov;50(5):1316–22
Excitation–Ca2+ release–contraction coupling in single aged human skeletal muscle fiber. Delbono O, et al.
Muscle Nerve Suppl 1997;5:S88–92 (19 ref.)
Distinct functions of nuclear and cytoplasmic calcium in the control of gene expression. Hardingham GE, et al.
Nature 1997 Jan 16;385(6613):260–5
Stereoselectivity of actions of the calcium sensitizer [+]–EMD 60263 and its enantiomer [–]–EMD 60264. Ravens U, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun;355(6):733–42
The set point of calcium–regulated PTH secretion as assessed in vivo: a physiological or artificial concept? [letter; comment] Fournier A, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1302–3. Comment on: Nephrol Dial Transplant 1996 Jan;11(1):16–8. Comment on: Nephrol Dial Transplant 1996 Sep;11(9):1722–5. Comment on: Nephrol Dial Transplant 1996 Sep;11(9):1725–7.
Ca(2+)–dependent changes of acetylcholine release and IP3 mass in Torpedo cholinergic synaptosomes. Carrasco MA, et al. **Neurochem Int** 1996 Dec;29(6):637–43
Cascade of gene expression induced by Ca2+ signals in neurons. Tsuda M. **Neurochem Int** 1996 Nov;29(5):443–51 (49 ref.)
Intra– vs extracellular calcium regulation of neurotransmitter–stimulated phosphoinositide breakdown. Vignes M, et al. **Neurochem Int** 1996 Feb;28(2):145–53
Ca(2+)–independent autophosphorylation of postsynaptic density–associated Ca2+/calmodulin–dependent protein kinase. Dosemeci A, et al. **Neurochem Res** 1997 Sep; 22(9):1151–7
Immortalized GnRH neurons express large–conductance calcium–activated potassium channels. Spergel DJ, et al. **Neuroendocrinology** 1996 Feb;63(2):101–11
Tyrosine phosphorylation and [Ca2+]i elevation induced by hemolysate in bovine endothelial cells: implications for cerebral vasospasm. Marton LS, et al. **Neurol Res** 1996 Aug;18(4):349–53
Ca(2+)–dependent routes to Ras: mechanisms for neuronal survival, differentiation, and plasticity? Finkbeiner S, et al. **Neuron** 1996 Feb;16(2):233–6 (16 ref.)
Calcium regulation of gene expression: isn't that spatial? Ginty DD. **Neuron** 1997 Feb;18(2):183–6 (20 ref.)
Ca(2+)–dependent exocytosis in the somata of dorsal root ganglion neurons. Huang LY, et al. **Neuron** 1996 Jul; 17(1):135–45
Ca2+–triggered peptide secretion in single cells imaged with green fluorescent protein and evanescent–wave microscopy. Lang T, et al. **Neuron** 1997 Jun;18(6):857–63
Ca2+ oscillations mediated by the synergistic excitatory actions of GABA(A) and NMDA receptors in the neonatal hippocampus. Leinekugel X, et al. **Neuron** 1997 Feb; 18(2):243–55
Synergies and coincidence requirements between NO, cGMP, and Ca2+ in the induction of cerebellar long–term depression. Lev–Ram V, et al. **Neuron** 1997 Jun; 18(6):1025–38
Ultrafast exocytosis elicited by calcium current in synaptic terminals of retinal bipolar neurons. Mennerick S, et al. **Neuron** 1996 Dec;17(6):1241–9
Posttranslational regulation of Ca(2+)–activated K+ currents by a target–derived factor in developing parasympathetic neurons. Subramony P, et al. **Neuron** 1996 Jul;17(1):115–24
CHEB, a convulsant barbiturate, evokes calcium–dependent spontaneous glutamate release from rat cerebrocortical synaptosomes. Wei L, et al. **Neuropharmacology** 1996 Jun; 35(6):695–701
A role for calcineurin in the desensitization of the P2X3 receptor. King B, et al. **Neuroreport** 1997 Mar 24; 8(5):1099–102
Presynaptic and Ca(2+)–independent PKC subspecies modulates NMDAR1 current. Koga T, et al.
Neuroreport 1996 Jan 31;7(2):477–80
Apamin–sensitive Ca(2+)–activated K+ channels regulate pacemaker activity in nigral dopamine neurons. Ping HX, et al. **Neuroreport** 1996 Feb 29;7(3):809–14
Time course and role of extracellular Ca2+ in veratridine–induced glutamate release. Stier C, et al.
Neuroreport 1996 Jan 31;7(2):401–4
Effects of glutamate receptor agonists on presumed presynaptic Ca(2+)–signals in juvenile rat hippocampal area CA1. Alici K, et al. **Neurosci Lett** 1996 Aug 16; 214(1):17–20
Effects of SR 48692 on neurotensin–induced calcium–activated chloride currents in the Xenopus oocyte expression system: agonist–like activity on the levocabastine–sensitive neurotensin receptor and absence of antagonist effect on the levocabastine insensitive neurotensin receptor. Botto JM, et al. **Neurosci Lett** 1997 Feb 28;223(3):193–6
Effect of apamin, a selective blocker of Ca2+–activated K+–channel, on habituation and passive avoidance responses in rats. Deschaux O, et al. **Neurosci Lett** 1997 May 9;227(1):57–60
Role of a Ca(2+)–dependent slow afterhyperpolarization in prostaglandin E2–induced sensitization of cultured rat sensory neurons. Gold MS, et al. **Neurosci Lett** 1996 Mar 1;205(3):161–4
Nicotine increases [Ca2+]i and regulates electrical activity in insect neurosecretory cells (DUM neurons) via an acetylcholine receptor with 'mixed' nicotinic–muscarinic pharmacology. Grolleau F, et al. **Neurosci Lett** 1996 Dec 13;220(2):142–6
Impaired Ca–signaling in astrocytes from the Ts16 mouse model of Down syndrome. Müller W, et al.
Neurosci Lett 1997 Feb 21;223(2):81–4
Acetylcholine release from rat brain cortical slices evoked by the fraction P4 of the venom of the spider Phoneutria nigriventer has Ca2+ and temperature independent components. Romano–Silva MA, et al. **Neurosci Lett** 1996 Nov 29;219(3):159–62
Noradrenaline activates vasopressin neurons via alpha1–receptor–mediated Ca2+ signaling pathway. Shioda S, et al. **Neurosci Lett** 1997 May 2;226(3):210–2
Calcium–dependent potentiation of M–current in bullfrog sympathetic neurons. Tokimasa T, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):79–82
Muscimol–induced long–term depression in the hippocampus: lack of dependence on extracellular calcium. Akhondzadeh S, et al. **Neuroscience** 1996 Mar;71(2):581–8
Removal of extracellular calcium after conditioning stimulation disrupts long–term potentiation in the CA1 region of rat hippocampal slices. Katsuki H, et al.
Neuroscience 1997 Feb;76(4):1113–9
Sodium–dependent increase in quantal secretion induced by brevetoxin–3 in Ca2+–free medium is associated with depletion of synaptic vesicles and swelling of motor nerve terminals in situ. Meunier FA, et al. **Neuroscience** 1997 Jun; 78(3):883–93
Multiple–unit recordings during slow field–potential shifts in low–[Ca2+]0 solutions in rat hippocampal and cortical slices. Patrylo PR, et al. **Neuroscience** 1996 Sep; 74(1):107–18
Hormonal regulation of calcium homeostasis. Locker FG. **Nurs Clin North Am** 1996 Dec;31(4):797–803 (18 ref.)
Evidence for the relationship of calcium to blood pressure. Osborne CG, et al. **Nutr Rev** 1996 Dec;54(12):365–81 (169 ref.)
A computer model of uterine contractions based on action potential propagation and intercellular calcium waves. Young RC. **Obstet Gynecol** 1997 Apr;89(4):604–8
Essential role of calcium in the regulation of MAP kinase phosphatase–1 expression. Scimeca JC, et al. **Oncogene** 1997 Aug 7;15(6):717–25
The role of calcium in the regulation of protein synthesis in the exocrine pancreas. Perkins PS, et al. **Pancreas** 1997 Mar;14(2):133–41
Calcium, phosphate, vitamin D, and the parathyroid. Marks KH, et al. **Pediatr Nephrol** 1996 Jun;10(3):364–7 (32 ref.)
Calcium and Free Radicals: Mediators of neurotrophic factor and excitatory transmitter–regulated developmental plasticity and cell death. Mattson MP.
Perspect Dev Neurobiol 1996;3(2):79–91 (101 ref.)
Functional compartmentalization of the neuronal growth cone: determining calcium's place in signaling cascades. Rehder V, et al. **Perspect Dev Neurobiol** 1996;4(2–3):215–26 (57 ref.)
Calcium and chemotropic turning of nerve growth cones. Zheng JQ, et al. **Perspect Dev Neurobiol** 1996;4(2–3):205–13 (65 ref.)
Calcium antagonism in vascular smooth muscle cells. Fleckenstein–Grün G. **Pflugers Arch** 1996;432(3 Suppl):R53–60 (54 ref.)
Intracellular pH and calcium signalling in rat pancreatic acinar cells. González A, et al. **Pflugers Arch** 1997 Sep;

434(5):609–14
The Fura-2 transient can show two types of voltage dependence at 36 degrees C in ventricular myocytes isolated from the rat heart. Hancox JC, et al. **Pflugers Arch** 1996 Jun;432(2):215–24
Regulation of the purified Ca2+ release channel/ryanodine receptor complex of skeletal muscle sarcoplasmic reticulum by luminal calcium. Herrmann-Frank A, et al. **Pflugers Arch** 1996 May;432(1):155–7
A calcium-dependent chloride current in insulin-secreting beta TC-3 cells. Kozak JA, et al. **Pflugers Arch** 1997 Apr; 433(6):679–90
Role of calcium in stretch-induced release and mRNA synthesis of natriuretic peptides in isolated rat atrium. Laine M, et al. **Pflugers Arch** 1996 Oct;432(6):953–60
P/Q-type calcium channels activate neighboring calcium-dependent potassium channels in mouse motor nerve terminals. Protti DA, et al. **Pflugers Arch** 1997 Aug; 434(4):406–12
Calcium- and barium-dependent exocytosis from the rat insulinoma cell line RINm5F assayed using membrane capacitance measurements and serotonin release. Richmond JE, et al. **Pflugers Arch** 1996 Jun;432(2):258–69
Ca2+/calmodulin system: participation in the progesterone-induced facilitation of lordosis behavior in the ovariectomized estrogen-primed rat. Canchola E, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):403–7
Proliferation and differentiation of cultured human keratinocytes is modulated by 1,25(OH)2D3 and synthetic vitamin D3 analogues in a cell density-, calcium- and serum-dependent manner. Svendsen ML, et al. **Pharmacol Toxicol** 1997 Jan;80(1):49–56
The role of calcium in UVB-induced damage in irradiated ocular lenses. Hightower K, et al. **Photochem Photobiol** 1997 Jan;65(1):155–60
Role of calcium in luteinization stimulator-enhanced progesterone production of porcine granulosa cells. Danišová A, et al. **Physiol Res** 1995;44(3):185–92
Membrane fusion protein synexin (annexin VII) as a Ca2+/GTP sensor in exocytotic secretion. Caohuy H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10797–802
Mimicry of the calcium-induced conformational state of troponin C by low temperature under pressure. Foguel D, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10642–6
Dendritic calcium conductances generate high-frequency oscillation in thalamocortical neurons. Pedroarena C, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):724–8
Heat transduction in rat sensory neurons by calcium-dependent activation of a cation channel. Reichling DB, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7006–11
A mathematical model of the cytosolic-free calcium response in endothelial cells to fluid shear stress. Wiesner TF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3726–31
Extracellular calcium sensed by a novel cation channel in hippocampal neurons. Xiong Z, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7012–7
Cellular mechanisms regulating neurite initiation. Lankford KL, et al. **Prog Brain Res** 1996;108:55–81 (231 ref.)
Role of calcium in endothelin-induced contractions and prostacyclin release. Oriji GK, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):413–7
Effect of modulating voltage-dependent calcium channels on cholecystokinin and acetylcholine-induced contractions of the guinea pig gallbladder. Parkman HP, et al. **Regul Pept** 1996 May 7;63(1):31–7
The role of the calcium-dependent enzymes nitric oxide synthase and calpain in hypoxia-induced proximal tubule injury. Edelstein CL, et al. **Ren Fail** 1996 May;18(3):501–11 (73 ref.)
Arachidonic acid-induced calcium signalling in human airway smooth muscle cells. Colliard-Rouiller C, et al. **Respir Physiol** 1997 Mar;107(3):263–73
Effect of acute endurance and strength exercise on circulating calcium-regulating hormones and bone markers in young healthy males. Rong H, et al. **Scand J Med Sci Sports** 1997 Jun;7(3):152–9
Calcium signaling restitution prevents T-cell proliferative suppression by prostaglandin E2. Choudhry MA, et al. **Shock** 1996 Aug;6(2):101–5
Inositol (1,4,5)-trisphosphate receptors: functional properties, modulation, and role in calcium wave propagation. Bezprozvanny I. **Soc Gen Physiol Ser** 1996;51:75–86 (55 ref.)
Functional properties of inositol 1,4,5-trisphosphate receptor and Ca2+ signaling. Iino M. **Soc Gen Physiol Ser** 1996; 51:67–73 (29 ref.)
Positive and negative regulation of depletion-activated calcium channels by calcium. Lewis RS, et al. **Soc Gen Physiol Ser** 1996;51:241–54
Regulation of store-operated calcium currents in mast cells. Parekh AB, et al. **Soc Gen Physiol Ser** 1996;51:231–9 (18 ref.)
Inositol 1,4,5-trisphosphate receptor activation and nuclear envelope assembly. Wilson KL, et al. **Soc Gen Physiol Ser** 1996;51:189–93 (14 ref.)
Role of Ca(2+)-dependent K+ channels in cerebral vasodilatation induced by increases in cyclic GMP and cyclic AMP in the rat. Paternò R, et al. **Stroke** 1996 Sep; 27(9):1603–7; discussion 1607–8
In vivo characterization of extracellular GABA release in the caudate nucleus and prefrontal cortex of the rhesus monkey. Kolachana BS, et al. **Synapse** 1997 Mar; 25(3):285–92
Sphingosine-containing phospholipid vesicles support human factor VII autoactivation in the absence of tissue factor. Iino M, et al. **Thromb Res** 1996 Apr 15;82(2):119–27
Differential effect of Ca2+ on oxidant-induced lethal cell injury and alterations of membrane functional integrity in renal cortical slices. Kim YK, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):607–16
Are C-type lectin-related proteins derived by proteolysis of metalloproteinase/disintegrin precursor proteins? Kini RM. **Toxicon** 1996 Nov-Dec;34(11–12):1287–94
Regulation of sensitivity in vertebrate rod photoreceptors by calcium. Koutalos Y, et al. **Trends Neurosci** 1996 Feb; 19(2):73–81 (80 ref.)
Turned on by Ca2+! The physiology and pathology of Ca(2+)-binding proteins in the retina. Polans A, et al. **Trends Neurosci** 1996 Dec;19(12):547–54 (69 ref.)
Calcium signalling in glial cells. Verkhratsky A, et al. **Trends Neurosci** 1996 Aug;19(8):346–52 (89 ref.)
The cross-talk between nitric oxide and Ca2+: a story with a complex past and a promising future. Clementi E, et al. **Trends Pharmacol Sci** 1997 Aug;18(8):266–9 (39 ref.)
Activation of metabotropic glutamate receptors decreases a high-threshold calcium current in spiking neurons of the Xenopus retina. Akopian A, et al. **Vis Neurosci** 1996 May-Jun;13(3):549–57
Ca(2+)-dependency of spinule plasticity at dendrites of retinal horizontal cells and its possible implication for the functional role of spinules. Weiler R, et al. **Vision Res** 1996 Dec;36(24):3891–900
Ca(2+)-dependent K+ channels in the cortical collecting duct of rat. Hirsch JR, et al. **Wien Klin Wochenschr** 1997 Jun 27;109(12–13):485–8
[The importance of calcium ions in the body] Wilczek H. **Cas Lek Cesk** 1997 Jul 30;136(15):479–81 (10 ref.) (Eng. Abstr.) **(Cze)**
[Effect of changed extracellular K(+) and Mg(2+)-concentration on intracellular Ca(2+) homeostasis, contraction coupling and force-frequency relations in the human myocardium] Schwinger RH, et al. **Herz** 1997 Jun;22 Suppl 1:18–27 (Eng. Abstr.) **(Ger)**
[Effect of calcium and substrates on post-anoxic energy metabolism of isolated acinar cells of the rat pancreas] Kosowski H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:699–703 (Eng. Abstr.) **(Ger)**
[Localization and function of intracellular Ca+ as active sites of various drugs] Karaki H, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):141–3 (0 ref.) **(Jpn)**
[Ca2+ dynamics in glial cells] Kudo Y. **Nippon Yakurigaku Zasshi** 1997 Mar;109(3):111–7 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Ca2+ signaling in budding yeast] Iida H. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1704–11 (19 ref.) **(Jpn)**
[Molecular mechanisms for Ca2+ dependent regulation of various muscle types] Dąbrowska R. **Postepy Biochem** 1996;42(2):195–203 (69 ref.) **(Pol)**
[Calcium ions in the life cycle of Streptomyces albogriseolus 444] Danova ST, et al. **Antibiot Khimioter** 1997;42(4):12–5 (Eng. Abstr.) **(Rus)**
[Ultrastructure of erythrocytes during calcium-activated aging in vitro] Sorokovoĭ VI, et al. **Biull Eksp Biol Med** 1994 May;117(5):555–8 **(Rus)**
[The effect of the increase in the calcium concentration induced by action of the ionophore A-23187 on mitosis in cultured ESK cells] Alieva IB, et al. **Tsitologiia** 1996; 38(12):1261–8 (Eng. Abstr.) **(Rus)**
[The role of extracellular calcium in regulating the contraction of the developing musculature in the frog Rana temporaria] Radziukevich TL. **Zh Evol Biokhim Fiziol** 1996 May-Jun;32(3):284–91 (Eng. Abstr.) **(Rus)**
[The mathematical modelling of Ca2(+)-dependent postsynaptic processes in the hippocampus (the induction of long-term potentiation and long-term depression)] Murzina GB, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul-Aug; 46(4):674–88 (Eng. Abstr.) **(Rus)**
[Role of calcium ions in the mechanism of action of acetylcholine on energy metabolism in rat liver mitochondria] Vatamniuk MZ, et al. **Ukr Biokhim Zh** 1996 Sep-Oct;68(5):9–14 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

Double-strand breaks in DNA induced by the K-shell ionization of calcium atoms. Takakura K. **Acta Oncol** 1996; 35(7):883–8

THERAPEUTIC USE

Reversal of fluorosis in children. Gupta SK, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):513–9
Therapy of osteoporosis: calcium, vitamin D, and exercise. Reid IR. **Am J Med Sci** 1996 Dec;312(6):278–86 (74 ref.)
Treatment with etidronate for men with idiopathic osteoporosis [letter; comment] Geusens P, et al. **Ann Rheum Dis** 1997 Apr;56(4):280. Comment on: Ann Rheum Dis 1996 Oct;55(10):700–14.
Addition of calcium to Euro-Collins solution is essential for 24-hour preservation of the vasculature. Ingemansson R, et al. **Ann Thorac Surg** 1997 Feb;63(2):408–13
Prospective randomized study of sulindac versus calcium and calciferol for upper gastrointestinal polyps in familial adenomatous polyposis. Seow-Choen F, et al. **Br J Surg** 1996 Dec;83(12):1763–6
Prevention of preeclampsia with calcium supplementation and its relation with the L-arginine:nitric oxide pathway. López-Jaramillo P. **Braz J Med Biol Res** 1996 Jun; 29(6):731–41 (99 ref.)
Complementary medical treatment for Colles' fracture: a comparative, randomized, longitudinal study. Crespo R, et al. **Calcif Tissue Int** 1997 Jun;60(6):567–70
Site-dependent bone mineral density response to oral pamidronate and calcium in postmenopausal osteoporosis: a preliminary report. Barreira JC, et al. **Clin Rheumatol** 1997 Jun;16(4):346–52
Trial of Calcium for Preeclampsia Prevention (CPEP): rationale, design, and methods. Levine RJ, et al. **Control Clin Trials** 1996 Oct;17(5):442–69
Calcium supplements increase bone mineral density in women with low serum calcium levels during long-term estrogen therapy. Mizunuma H, et al. **Endocr J** 1996 Aug;43(4):411–5
Calcium and colorectal epithelial cell proliferation [letter] Kleibeuker JH, et al. **Gut** 1996 Nov;39(5):774–5
Platelet angiotensin II receptor status during pregnancy in Chinese women at high-risk of developing pregnancy-induced hypertension. Rogers MS, et al. **Gynecol Obstet Invest** 1996;42(2):88–94
The influence of calcium infusion on serum prolactin in hyperprolactinemic women. Yildiz L, et al. **J Basic Clin Physiol Pharmacol** 1995;6(3–4):303–7
Correcting calcium nutritional deficiency prevents spine fractures in elderly women. Recker RR, et al. **J Bone Miner Res** 1996 Dec;11(12):1961–6
Different responses of free and peptide-bound cross-links to vitamin D and calcium supplementation in elderly women with vitamin D insufficiency. Kamel S, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3717–21
Prevention of bone loss induced by thyroxine suppressive therapy in postmenopausal women: the effect of calcium and calcitonin. Kung AW, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1232–6
The predictive value of biochemical markers of bone turnover for bone mineral density in early postmenopausal women treated with hormone replacement or calcium supplementation. Rosen CJ, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1904–10
Case report: fatal verapamil overdosage despite intensive therapy and use of high dose intravenous calcium. Li Saw Hee FL, et al. **J Hum Hypertens** 1996 Jul;10(7):495–6
The effects of calcium supplementation on ambulatory blood pressure in African-American adolescents. Davis IJ, et al. **J Natl Med Assoc** 1996 Dec;88(12):774–8
Calcium supplementation and prevention of pregnancy induced hypertension. Purwar M, et al. **J Obstet Gynaecol Res** 1996 Oct;22(5):425–30
Vitamin D and calcium in the prevention of corticosteroid induced osteoporosis: a 3 year followup [see comments] Adachi JD, et al. **J Rheumatol** 1996 Jun;23(6):995–1000. Comment in: J Rheumatol 1997 Feb;24(2):407.
Calcium and vitamin D therapy in corticosteroid bone loss: what is the evidence [editorial] Sambrook PN. **J Rheumatol** 1996 Jun;23(6):963–4
Trial of calcium to prevent preeclampsia. Greene MF. **J Womens Health** 1997 Aug;6(4):485–6
Contempo 1997: obstetrics and gynecology [letter] Levine RJ. **JAMA** 1997 Oct 8;278(14):1147–8
Prophylaxis of osteoporosis with calcium, estrogens and/or eelcatonin: comparative longitudinal study of bone mass. Pérez-Jaraiz MD, et al. **Maturitas** 1996 Apr;23(3):327–32
Effect of disodium monofluorophosphate, calcium and vitamin D supplementation on bone mineral density in patients chronically treated with glucocorticosteroids: a prospective, randomized, double-blind study. Lippuner K, et al. **Miner Electrolyte Metab** 1996;22(4):207–13
Effect of calcium and vitamin D supplementation on bone density in men and women 65 years of age or older [see comments] Dawson-Hughes B, et al. **N Engl J Med** 1997 Sep 4;337(10):670–6. Comment in: N Engl J Med 1997 Sep 4;337(10):701–2.
Trial of calcium to prevent preeclampsia [see comments] Levine RJ, et al. **N Engl J Med** 1997 Jul 10;337(2):69–76 . Comment in: N Engl J Med 1997 Jul 10;337(2):124–5.
Diet and the prevention of osteoporotic fractures [editorial; comment] Prince RL. **N Engl J Med** 1997 Sep 4; 337(10):701–2. Comment on: N Engl J Med 1997 Sep 4;337(10):670–6.
Prevention or early treatment of preeclampsia [editorial; comment] Roberts JM. **N Engl J Med** 1997 Jul 10; 337(2):124–5. Comment on: N Engl J Med 1997 Jul 10;337(2):69–76.
Protective effects of calcium from nonfat dried milk against colon carcinogenesis in rats. Pence BC, et al. **Nutr Cancer** 1996;25(1):35–45
A 4-year follow-up study of the effects of calcium supplementation on bone density in elderly postmenopausal women. Devine A, et al. **Osteoporos Int** 1997;7(1):23–8
The effect of calcium supplementation and Tanner stage on bone density, content and area in teenage women. Lloyd T, et al. **Osteoporos Int** 1996;6(4):276–83
The use of etidronate and calcium versus calcium alone in

the treatment of postmenopausal osteopenia: results of three years of treatment. Montessori ML, et al. **Osteoporos Int** 1997;7(1):52–8

The effect of a short course of calcium and vitamin D on bone turnover in older women. Prestwood KM, et al. **Osteoporos Int** 1996;6(4):314–9

Bone loss after liver transplantation is not prevented by cyclical etidronate, calcium and alphacalcidol. The Liver Transplant Group, Groningen. Riemens SC, et al. **Osteoporos Int** 1996;6(3):213–8

Remineralization of caries-like lesions of enamel with acidulated calcifying fluids: a polarized light microscopic study. Flaitz CM, et al. **Pediatr Dent** 1996 May-Jun; 18(3):205–9

Calcium supplementation for the prevention and treatment of osteoporosis. Roux C. **Rev Rhum Engl Ed** 1995 Dec; 62(11):729–32 (28 ref.)

Follow-up study of biological parameters in elderly institutionalized patients more than one year after discontinuation of calcium-vitamin D supplementation. Sebert JL, et al. **Rev Rhum Engl Ed** 1996 Jul-Sep; 63(7–8):498–501

Prevention of hip fractures by correcting calcium and vitamin D insufficiencies in elderly people. Meunier P. **Scand J Rheumatol Suppl** 1996;103:75–8; discussion 79–80

Amelioration of hemiplegia-associated osteopenia more than 4 years after stroke by 1 alpha-hydroxyvitamin D3 and calcium supplementation. Sato Y, et al. **Stroke** 1997 Apr; 28(4):736–9

[The role of dietary calcium in hypertensive disease: update and clinical implications] Zgheib A, et al. **J Med Liban** 1995;43(2):89–96 (77 ref.) **(Fre)**

[Osteoporosis: calcium and vitamin D3 are the basis for prevention and therapy. A national disease that should not be] **Orthopade** 1994 Jun;23(3 Suppl [osteopor]):1–4 **(Ger)**

[Vitamin D and calcium in the basic therapy of osteoporosis. It is never too late for therapy] **Orthopade** 1997 Mar;26(3 Suppl):1–4 **(Ger)**

[Calcium supplements in pediatrics: facts and fiction (editorial)] Moya M. **An Esp Pediatr** 1997 May;46(5):427 **(Spa)**

TOXICITY

Intracellular calcium chelator BAPTA protects cells against toxic calcium overload but also alters physiological calcium responses. Collatz MB, et al. **Cell Calcium** 1997 Jun; 21(6):453–9

Multiple linear regression analysis of blood pressure, hypertrophy, calcium and cadmium in hypertensive and non-hypertensive states. Tomera JF, et al. **Food Chem Toxicol** 1997 Jul;35(7):713–8

Cytotoxic effect of Ca++ released from intracellular stores during cerebral energy deprivation. Grøndahl TO, et al. **Neurol Res** 1996 Dec;18(6):499–504

[Adapting to physical load increases resistance of the heart to the damaging effect of adrenaline and calcium] Prodius PA, et al. **Dokl Akad Nauk** 1997 Feb;352(5):711–4 **(Rus)**

URINE

Hypercalciuria in renal glucosuria. Kavukçu S, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):72–4

Calciuric effects of protein and potassium bicarbonate but not of sodium chloride or phosphate can be detected acutely in adult women and men. Whiting SJ, et al. **Am J Clin Nutr** 1997 May;65(5):1465–72

Hypokalemic metabolic alkalosis with hypomagnesuric hypermagnesemia and severe hypocalciuria: a new syndrome? Mehrotra R, et al. **Am J Kidney Dis** 1997 Jan; 29(1):106–14 (27 ref.)

Amylin, calcitonin gene-related peptide, and adrenomedullin: effects on thiazide receptor and calcium. Blakely P, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F410–5

Increased sensitivity to 1,25(OH)2D3 in bone from genetic hypercalciuric rats. Krieger NS, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C130–5

Autosomal/recessive hypocalciuric hypercalcemia [letter] Dunn A. **Ann Intern Med** 1997 May 15;126(10):835

Decrease in kidney calbindin-D 28kDa as a possible mechanism mediating cyclosporine A- and FK-506-induced calciuria and tubular mineralization [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1945] Aicher L, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):723–31

Comparative evaluation of markers of bone resorption in patients with breast cancer-induced osteolysis before and after bisphosphonate therapy. Body JJ, et al. **Br J Cancer** 1997;75(3):408–12

Clinical guidelines for the treatment of osteoporosis in Japan. Fujita T. **Calcif Tissue Int** 1996;59 Suppl 1:34–7 (15 ref.)

Osteocalcin response to calcium-restricted diet: a helpful tool for the workup of hypercalciuria. Strohmaier WL, et al. **Eur Urol** 1996;30(1):103–7

A thermodynamic equilibrium model for calcium salt urolithiasis: clinical application. Ashby R, et al. **Exp Nephrol** 1997 May-Jun;5(3):246–52

Effects of calcium-modulating hormones on thiazide receptor density. Blakely P, et al. **J Am Soc Nephrol** 1996 Jul; 7(7):1052–7

Urinary calcium excretion in treated and untreated essential hypertension. Quereda C, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1058–65

Biochemical markers of bone resorption compared with estimates of bone resorption from radiotracer kinetic studies in osteoporosis. Eastell R, et al. **J Bone Miner Res** 1997 Jan;12(1):59–65

Dietary salt, urinary calcium, and bone loss [see comments] Massey LK, et al. **J Bone Miner Res** 1996 Jun;11(6):731–6 (50 ref.). Comment in: J Bone Miner Res 1997 Feb;12(2):298–9.

Low bone mineral density and peripheral blood monocyte activation profile in calcium stone formers with idiopathic hypercalciuria [see comments] Ghazali A, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):32–8. Comment in: J Clin Endocrinol Metab 1997 Jan;82(1):29–31.

Idiopathic hypercalciuria and osteoporosis--distinct clinical manifestations of increased cytokine-induced bone resorption? [editorial; comment] Pacifici R. **J Clin Endocrinol Metab** 1997 Jan;82(1):29–31. Comment on: J Clin Endocrinol Metab 1997 Jan;82(1):32–8.

Markedly reduced activity of mutant calcium-sensing receptor with an inserted Alu element from a kindred with familial hypocalciuric hypercalcemia and neonatal severe hyperparathyroidism. Bai M, et al. **J Clin Invest** 1997 Apr 15;99(8):1917–25

Hypercalcitoninemia and inappropriate calciuria in the acute trauma patient. Koch SM, et al. **J Crit Care** 1996 Sep; 11(3):117–21

Dietary essential fatty acid supplementation, urinary calcium excretion and reproductive performance in the diabetic pregnant rat. Garland HO, et al. **J Endocrinol** 1997 Jun; 153(3):357–63

Case report: moderate salt restriction for the management of hypertension and hypercalciuria. Saggar-Malik AK, et al. **J Hum Hypertens** 1996 Dec;10(12):811–3

Renal potassium wasting and hypocalciuria ameliorated with magnesium repletion in Gitelman's syndrome. Cho YJ, et al. **J Korean Med Sci** 1997 Apr;12(2):157–9

Urinary phosphate/creatinine, calcium/creatinine, and magnesium/creatinine ratios in a healthy pediatric population. Matos V, et al. **J Pediatr** 1997 Aug;131(2):252–7

Variables related to urinary calcium excretion in young girls. O'Brien KO, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul; 23(1):8–12

Could urine calcium be a marker of vitamin D metabolism parallel to the changes in climate [letter] Kavukcu S. **J Trop Pediatr** 1996 Feb;42(1):58

Re: Family pattern of idiopathic hypercalciuria and its subtypes [letter; comment] Goodman HO, et al. **J Urol** 1996 Dec;156(6):2012. Comment on: J Urol 1996 Mar;155(3):1042–4.

Relationship between supersaturation and crystal inhibition in hypercalciuric rats. Asplin JR, et al. **Kidney Int** 1997 Mar;51(3):640–5

Thiazide diuretics normalize urinary calcium in spontaneously hypertensive male rats. Fanestil DD, et al. **Kidney Int** 1997 Apr;51(4):1018–21

Calciuric response to an acute acid load in healthy subjects and hypercalciuric calcium stone formers. Houillier P, et al. **Kidney Int** 1996 Sep;50(3):987–97

Possible role of cytokines on the bone mineral loss in idiopathic hypercalciuria. Weisinger JR, et al. **Kidney Int** 1996 Jan;49(1):244–50

Does hyperphosphaturia underlie hypercalciuria? Alpern RJ, et al. **Lancet** 1997 Feb 22;349(9051):518–9

Three inherited disorders of calcium sensing. Pollak MR, et al. **Medicine (Baltimore)** 1996 May;75(3):115–23 (43 ref.)

Calcium-to-creatinine ratio in spot urine samples in early pregnancy and its relation to the development of preeclampsia. Izumi A, et al. **Metabolism** 1997 Oct; 46(10):1107–8

Increased urinary calcium excretion potentiates bone turnover in oophorectomized rats. Mason RA, et al. **Miner Electrolyte Metab** 1997;23(1):38–42

Dietary patterns and blood pressure [letter; comment] Barzel US. **N Engl J Med** 1997 Aug 28;337(9):637; discussion 637–8. Comment on: N Engl J Med 1997 Apr 17;336(16):1117–24.

Influence of urinary calcium concentration on erythrocyte morphology. Bonucchi D, et al. **Nephron** 1996;74(4):661–7

Central hypervolemia does not invariably modulate calcium excretion in essential hypertension [letter] Coruzzi P, et al. **Nephron** 1997;75(3):368–9

Sensitivity to calcium intake in calcium stone forming patients. Heilberg IP, et al. **Nephron** 1996;73(2):145–53

Increased levels of blood angiotensin-converting enzyme in idiopathic hypercalciuric renal stone formers [letter] Radermacher L, et al. **Nephron** 1997;75(1):121–2

Short-term experimental hypercalciuria does not produce hematuria in normal subjects. Welch TR, et al. **Nephron** 1996;73(2):165–8

Reversible dementia in idiopathic hypoparathyroidism associated with normocalcemia [see comments] Stuerenburg HJ, et al. **Neurology** 1996 Aug;47(2):474–6. Comment in: Neurology 1997 May;48(5):1475.

Urinary calcium excretion in healthy school children. Alconcher LF, et al. **Pediatr Nephrol** 1997 Apr;11(2):186–8

Is there a relationship between urinary calcium/creatinine and sodium/potassium ratios in children? [letter] De Palma MT, et al. **Pediatr Nephrol** 1996 Dec;10(6):808–9

Gitelman's syndrome is genetically distinct from other forms of Bartter's syndrome. Károlyi L, et al. **Pediatr Nephrol** 1996 Oct;10(5):551–4

Hypercalcaemia, hypercalciuria and nephrocalcinosis in Down syndrome [letter; comment] Proesmans W. **Pediatr Nephrol** 1996 Aug;10(4):543–4. Comment on: Pediatr Nephrol 1995 Oct;9(5):673. Comment on: Pediatr Nephrol 1996 Apr;10(2):251.

Effect of hydrochlorothiazide in pseudohypoaldosteronism with hypercalciuria and severe hyperkalemia. Stone RC, et al. **Pediatr Nephrol** 1996 Aug;10(4):501–3

Effect of growth hormone on urine calcium and serum vitamin D metabolites in renal failure. Strife CF, et al. **Pediatr Nephrol** 1996 Oct;10(5):648–50

Urinary N-acetyl-beta-D-glucosaminidase activity in rabbits with experimental hypercalciuria. Türkmen M, et al. **Pediatr Nephrol** 1997 Aug;11(4):481–4

The relationship between urinary calcium, sodium, and potassium excretion and the role of potassium in treating idiopathic hypercalciuria. Osorio AV, et al. **Pediatrics** 1997 Oct;100(4):675–81

Parathormone, 1,25 dihydroxyvitamin D and prostaglandin E2 correlation in children with idiopathic hypercalciuria. Hasanoğlu A, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Mar; 56(3):235–7

Urinary catheter blockage depends on urine pH, calcium and rate of flow. Burr RG, et al. **Spinal Cord** 1997 Aug; 35(8):521–5

Nutrition and urinary calcium stone formation in northwestern India: a case control study. Rajkiran, et al. **Urol Res** 1996;24(3):141–7

[Predictive value of urinary calcium measurement on occurrence of pregnancy-induced hypertension] Ye Y, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):668–9 (Eng. Abstr.) **(Chi)**

[Changes in urinary calcium and magnesium levels during supplementation with iodine and selenium] Simečková A, et al. **Vnitr Lek** 1996 Nov;42(11):743–6 (Eng. Abstr.) **(Cze)**

[Hypercalciuria: etiologies and treatment] Dumas R. **Arch Pediatr** 1997 Apr;4(4):351–8 (13 ref.) (Eng. Abstr.) **(Fre)**

[Urinary excretion of calcium, magnesium, phosphates, oxalates and urates in normal children en Switzerland] Matos V, et al. **Rev Med Suisse Romande** 1996 Oct; 116(10):839–43 **(Fre)**

[Studies of calcium metabolism in patients with hypercalciuria] Bichler KH, et al. **Urologe A** 1996 Sep; 35(5):408–12 (Eng. Abstr.) **(Ger)**

[Urinary calcium excretion. (Normal values for urinary calcium/creatinine ratio in Hungary). Multicenter study] Lakatos P, et al. **Orv Hetil** 1997 Jun 1;138(22):1405–9 (Eng. Abstr.) **(Hun)**

[Correction of urinary calcium levels for urine osmotic pressure] Ohgitani S, et al. **Nippon Ronen Igakkai Zasshi** 1997 May;34(5):409–14 (Eng. Abstr.) **(Jpn)**

[Influence of diet in idiopathic hypercalciuria] Fernández González P, et al. **An Esp Pediatr** 1997 Apr;46(4):362–6 (Eng. Abstr.) **(Spa)**

[Differential diagnosis of Gitelman's syndrome and Bartter's syndrome, apropos of a case of metabolic alkalosis (letter) de Luis DA, et al. **Rev Clin Esp** 1996 Oct;196(10):725 **(Spa)**

CALCIUM-ACTIVATED NEUTRAL PROTEASE see **CALPAIN**

CALCIUM-ACTIVATED PHOSPHOLIPID-DEPENDENT KINASE see **PROTEIN KINASE C**

CALCIUM ADENOSINETRIPHOSPHATASE see **CA(2+)-TRANSPORTING ATPASE**

CALCIUM ANTAGONISTS, EXOGENOUS see **CALCIUM CHANNEL BLOCKERS**

CALCIUM ATPASE see **CA(2+)-TRANSPORTING ATPASE**

CALCIUM-BINDING PROTEIN, VITAMIN D-DEPENDENT

Static-charge-sensitive bed ballistocardiography in cardiovascular monitoring. Lindqvist A, et al. **Clin Physiol** 1996 Jan;16(1):23–30

The haemodynamic effect of prophylactic peri-operative dopexamine in coronary artery bypass patients. Hurley J, et al. **Eur Heart J** 1995 Nov;16(11):1705–9

Facial nerve paralysis following pediatric cardiac surgery. Alcaraz A, et al. **Panminerva Med** 1995 Sep;37(3):148–9

ANALYSIS

Distribution of calcium-binding protein immunoreactivities in the guinea pig auditory brainstem. Caicedo A, et al. **Anat Embryol (Berl)** 1996 Nov;194(5):465–87

Calretinin immunoreactivity in human sympathetic ganglia. Huerta JJ, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):373–8

Protein gene product 9.5-like and calbindin-like immunoreactivity in the nasal respiratory mucosa of perinatal humans. Johnson EW, et al. **Anat Rec** 1997 Jan; 247(1):38–45

Upregulation of Calbindin-D-28k immunoreactivity by

excitatory amino acids. Batini C, et al. **Arch Ital Biol** 1997 Sep;135(4):385–97

Decrease in kidney calbindin-D 28kDa as a possible mechanism mediating cyclosporine A- and FK-506-induced calciuria and tubular mineralization [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1945] Aicher L, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):723–31

Change of calretinin expression in the human colon adenocarcinoma cell line HT29 after differentiation. Cargnello R, et al. **Biochim Biophys Acta** 1996 Oct 11; 1313(3):201–8

Calbindin localization in African giant rat kidney (Cricetomys gambianus). Moutairou K, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):187–93

Calretinin is differentially localized in magnocellular oxytocin neurons of the rat hypothalamus. A double-labeling immunofluorescence study. Arai R, et al. **Brain Res** 1996 Sep 30;735(1):154–8

Responsiveness to ATP with an increase in intracellular free Ca2+ is not a distinctive feature of calbindin-D28 immunoreactive neurons in myenteric ganglia. Christofi FL, et al. **Brain Res** 1996 Jul 1;725(2):241–6

Vasoactive intestinal polypeptide containing neurones in monkey medial prefrontal cortex (mPFC): colocalisation with calretinin. Gabbott PL, et al. **Brain Res** 1997 Jan 2; 744(1):179–84

Calretinin-containing pathways in the rat forebrain. Krzywkowski P, et al. **Brain Res** 1995 Dec 24; 705(1–2):273–94

Parvalbumin- and calbindin-containing neurons express c-fos protein in primary and secondary (mirror) epileptic foci of the rat neocortex. Mihaly A, et al. **Brain Res** 1997 Jun 27;761(1):135–45

Calretinin-containing neurons in rat cerebellar granule cell cultures. Marini AM, et al. **Brain Res Bull** 1997; 42(4):279–88

Calcium transport and the localisation of calbindin-D9k in the ruminant placenta during the second half of pregnancy. Wooding FBP, et al. **Cell Tissue Res** 1996 Sep; 285(3):477–89

Transient colocalization of parvalbumin and calbindin D28k in the postnatal cerebral cortex: evidence for a phenotypic shift in developing nonpyramidal neurons. Alcantara S, et al. **Eur J Neurosci** 1996 Jul;8(7):1329–39

Parvalbumin-containing cells of the angular portion of the vertical limb terminate on calbindin-immunoreactive neurons located at the border between the lateral and medial septum of the rat. Kiss J, et al. **Exp Brain Res** 1997 Jan;113(1):48–56

Neurochemical characterization of AMPA receptor-containing neurons in the mediolateral septal area of the rat. Varoqueaux F, et al. **Exp Brain Res** 1997 May; 114(3):454–60

Calretinin-containing neurons in trimethyltin-induced neurodegeneration in the rat hippocampus: an immunocytochemical study. Geloso MC, et al. **Exp Neurol** 1997 Jul;146(1):67–73

Neurotrophins and basic fibroblast growth factor induce the differentiation of calbindin-containing neurons in the cerebral cortex. Pappas IS, et al. **Exp Neurol** 1997 Apr; 144(2):302–14

The polarity of neurochemically defined myenteric neurons in the human colon. Wattchow DA, et al. **Gastroenterology** 1997 Aug;113(2):497–506

Pyramidal cell dendrites are the primary targets of calbindin D28k-immunoreactive interneurons in the hippocampus. Gulyás AI, et al. **Hippocampus** 1996;6(5):525–34

Distribution of neurofilament protein and calcium-binding proteins parvalbumin, calbindin, and calretinin in the canine hippocampus. Hof PR, et al. **J Chem Neuroanat** 1996 Jul; 11(1):1–12

Colocalization of parvalbumin, calretinin and calbindin D-28k in human cortical and subcortical visual structures. Leuba G, et al. **J Chem Neuroanat** 1997 Jun;13(1):41–52

Calretinin immunoreactivity in the cerebral cortex of the lizard Psammodromus algirus: a light and electron microscopic study. Dávila JC, et al. **J Comp Neurol** 1997 Jun 9;382(3):382–93

Calretinin neurons in human medial prefrontal cortex (areas 24a,b,c, 32', and 25). Gabbott PL, et al. **J Comp Neurol** 1997 May 19;381(4):389–410

Calretinin in the thalamic reticular nucleus of the rat: distribution and relationship with ipsilateral and contralateral efferents. Lizier C, et al. **J Comp Neurol** 1997 Jan 13;377(2):217–33

Prenatal development of calbindin D-28K and parvalbumin immunoreactivities in the human retina. Yan XX. **J Comp Neurol** 1997 Jan 27;377(4):565–76

Parvalbumin, calbindin, and calretinin mark distinct pathways during development of monkey dorsal lateral geniculate nucleus. Yan YH, et al. **J Neurobiol** 1996 Oct; 31(2):189–209

Differential immunocytochemical localization of calretinin in the pineal gland of three mammalian species. Redecker P, et al. **J Neurocytol** 1996 Jan;25(1):9–18

Calretinin immunoreactivity in pineal gland of different mammals including man. Novier A, et al. **J Pineal Res** 1996 Oct;21(3):121–30

Striatal interneurons in Huntington's disease: selective increase in the density of calretinin-immunoreactive medium-sized neurons. Cicchetti F, et al. **Mov Disord** 1996 Nov;11(6):619–26

Calbindin-D28K cells in the hamster SCN express light-induced Fos. Silver R, et al. **Neuroreport** 1996 Apr 26;7(6):1224–8

Innervation of rat abdominal paraganglia by calretinin-like immunoreactive nerve fibers. Berthoud HR, et al. **Neurosci Lett** 1996 May 31;210(2):115–8

A chronological study of the expression of glial fibrillary acidic protein and calbindin-D28 k by reactive astrocytes in the electrically lesioned rat brain. Ahmed BY, et al. **Neurosci Res** 1996 Nov;26(3):271–8

The distribution of two calcium binding proteins, calbindin D-28K and parvalbumin, in the entorhinal cortex of the adult mouse. Fujimaru Y, et al. **Neurosci Res** 1996 Mar; 24(4):329–43

Neurotrophin-4/5 selectively protects nigral calbindin-containing neurons in rats with medial forebrain bundle transections. Alexi T, et al. **Neuroscience** 1996 Jun; 72(4):911–21

Differential distribution of calcium-binding proteins in the dorsal column nuclei of rats: a combined immunohistochemical and retrograde tract tracing study. Magnusson A, et al. **Neuroscience** 1996 Jul;73(2):497–508

Morphological studies on Mn-SOD, NOS and calcium binding proteins in the rat hippocampus. Matsui T, et al. **Osaka City Med J** 1996 Jul;42(1):1–13

Parvalbumin and calbindin D-28k in the entopeduncular nucleus, subthalamic nucleus, and substantia nigra of the rat as revealed by double-immunohistochemical methods. Hontanilla B, et al. **Synapse** 1997 Apr;25(4):359–67

BIOSYNTHESIS

Calretinin mRNA and immunoreactivity in the medullary reticular formation of the rat: colocalization with glutamate receptors. Winsky L, et al. **Brain Res** 1996 Nov 25; 741(1–2):123–33

Dimorphic expression of calbindin-D28K in the medial basal hypothalamus from perinatal male and female rats. Lephart ED. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):281–4

Calbindin-D28k is regulated by adrenal steroids in hypothalamic tissue during prenatal development. Lephart ED, et al. **Brain Res Dev Brain Res** 1997 May 20; 100(1):117–20

Calretinin immunoreactivity in the developing olfactory system of the rainbow trout. Porteros A, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):101–9

Differential effects of excitatory amino acids on mesencephalic neurons expressing either calretinin or tyrosine hydroxylase in primary cultures. Isaacs KR, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):114–26

Early induction of mRNA for calbindin-D28k and BDNF but not NT-3 in rat hippocampus after kainic acid treatment. Lee S, et al. **Brain Res Mol Brain Res** 1997 Jul; 47(1–2):183–94

Calretinin-immunoreactivity during postnatal development of the rat isocortex: a qualitative and quantitative study. Schierle GS, et al. **Cereb Cortex** 1997 Mar;7(2):130–42

Calretinin is transiently expressed in tendon fibroblasts of the paravertebral region of the chick embryo. Gangji V, et al. **Eur J Morphol** 1997 Jul;35(3):137–42

The role of gonadal hormones in gene expression of calbindin (Mr 28,000) in the laying hen. Bar A, et al. **Gen Comp Endocrinol** 1996 Jul;103(1):115–22

Calbindin-D9k and calbindin-D28k expression in rat mineralized tissues in vivo. Berdal A, et al. **J Bone Miner Res** 1996 Jun;11(6):768–79

Spatiotemporal pattern of ontogenetic expression of calbindin-28/kD in the retinorecipient layers of rat superior colliculus. Dreher B, et al. **J Comp Neurol** 1996 Dec 9; 376(2):223–40

Calretinin expression in the chick brainstem auditory nuclei develops and is maintained independently of cochlear nerve input. Parks TN, et al. **J Comp Neurol** 1997 Jun 23; 383(1):112–21

Increased expression of calbindin D28k via herpes simplex virus amplicon vector decreases calcium ion mobilization and enhances neuronal survival after hypoglycemic challenge. Meier TJ, et al. **J Neurochem** 1997 Sep; 69(3):1039–47

Combinations of AMPA receptor subunit expression in individual cortical neurons correlate with expression of specific calcium-binding proteins. Kondo M, et al. **J Neurosci** 1997 Mar 1;17(5):1570–81

Effect of medium-chain triglycerides on calbindin-D9k expression in the intestine. Devlin A, et al. **Lipids** 1996 May;31(5):547–9

A possible role of transient AChE expression in the medial geniculate of developing rats. Okoyama S, et al. **Neuroreport** 1996 Apr 10;7(5):1067–71

Expression of calbindin-D28K by reactive astrocytes in gerbil hippocampus after ischaemia. Toyoshima T, et al. **Neuroreport** 1996 Sep 2;7(13):2087–91

Transient patterns of calbindin-D28k expression in the developing striatum of man. Letinić K, et al. **Neurosci Lett** 1996 Dec 20;220(3):211–4

Developmental expression of calretinin in the medial basal hypothalamus and amygdala from male and female rats. Lephart ED, et al. **Neurosci Res** 1997 Jul;28(3):269–73

A calcium responsive element that regulates expression of two calcium binding proteins in Purkinje cells. Arnold DB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8842–7

Deficits in memory and hippocampal long-term potentiation in mice with reduced calbindin D28K expression. Molinari S, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):8028–33

CHEMISTRY

Rotational diffusion anisotropy of proteins from simultaneous analysis of 15N and 13C alpha nuclear spin relaxation. Lee LK, et al. **J Biomol NMR** 1997 Apr;9(3):287–98

Chick calretinin: purification, composition, and metal binding activity of native and recombinant forms. Stevens J, et al. **Protein Expr Purif** 1997 Mar;9(2):171–81

Structural basis for the negative allostery between Ca(2+)- and Mg(2+)-binding in the intracellular Ca(2+)-receptor calbindin D9k. Andersson M, et al. **Protein Sci** 1997 Jun; 6(6):1139–47

A calbindin D9k mutant containing a novel structural extension: 1H nuclear magnetic resonance studies. Groves P, et al. **Protein Sci** 1997 Feb;6(2):323–30

1H NMR assignments of apo calcyclin and comparative structural analysis with calbindin D9k and S100 beta. Potts BC, et al. **Protein Sci** 1996 Nov;5(11):2162–74

DRUG EFFECTS

The neurotoxin MPTP increases calbindin-D28k levels in mouse midbrain dopaminergic neurons. Ng MC, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):329–36

GENETICS

RT-PCR microlocalization of mRNAs for calbindin D28k and vitamin D receptor in the murine nephron. Liu L, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):F677–81

Analysis of binding of the 1,25-dihydroxyvitamin D3 receptor to positive and negative vitamin D response elements. Darwish HM, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):223–34

Isolation, characterization and in vivo analysis of the murine calbindin-D28K upstream regulatory region. Pavlou O, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):268–79

Oral calcium transiently increases calbindin9k gene expression in adult rat duodena. Lemay J, et al. **Calcif Tissue Int** 1997 Jan;60(1):43–7

The calcium-binding protein calretinin-22k, an alternative splicing product of the calretinin gene is expressed in several colon adeno carcinoma cell lines. Gander JC, et al. **Cell Calcium** 1996 Jul;20(1):63–72

Expressions of a calcium-binding protein (spot35/calbindin-D28K) in mouse olfactory cells: possible relationship to neuronal differentiation. Fujiwara M, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):105–9

Regional variation in expression of calbindin and inositol 1,4,5-trisphosphate receptor type 1 mRNAs in the cerebellum of the staggerer mutant mouse. Nakagawa S, et al. **Eur J Neurosci** 1996 Jul;8(7):1401–7

Estrogen responsiveness of renal calbindin-D28k gene expression in rat kidney. Criddle RA, et al. **J Cell Biochem** 1997 Jun 1;65(3):340–8

Genetic regulation of placental function: a quantitative in situ hybridization study of calcium binding protein (calbindin-D9k) and calcium ATPase mRNAs in sheep placenta. Morgan G, et al. **Placenta** 1997 Mar-Apr; 18(2–3):211–8

A calcium responsive element that regulates expression of two calcium binding proteins in Purkinje cells. Arnold DB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8842–7

Impaired long-term potentiation induction in dentate gyrus of calretinin-deficient mice. Schurmans S, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10415–20

IMMUNOLOGY

Neurons co-localizing calretinin immunoreactivity and reduced nicotinamide adenine dinucleotide phosphate diaphorase (NADPH-d) activity in the hippocampus and dentate gyrus of the rat. Megías M, et al. **Brain Res** 1997 Jan 2;744(1):112–20

The chemical heterogeneity of cortical interneurons: nitric oxide synthase vs. calbindin and parvalbumin immunoreactivity in the rat. Bertini G, et al. **Brain Res Bull** 1996;39(4):261–6

Calbindin and parvalbumin immunoreactivity in the developing and adult human retina. Nag TC, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1–2):23–32

The cellular basis for the relative resistance of parvalbumin and calretinin immunoreactive neocortical neurons to the pathology of Alzheimer's disease. Sampson VL, et al. **Exp Neurol** 1997 May;145(1):295–302

Distribution, ultrastructure, and connectivity of calretinin-immunoreactive mossy cells of the mouse dentate gyrus. Blasco-Ibáñez JM, et al. **Hippocampus** 1997; 7(3):307–20

Calretinin immunoreactivity in the thalamus of the squirrel monkey. Fortin M, et al. **J Chem Neuroanat** 1996 Apr; 10(2):101–17

Colocalization of calbindin D-28k, calretinin, and GABA immunoreactivities in neurons of the human temporal cortex. del Río MR, et al. **J Comp Neurol** 1996 Jun 3; 369(3):472–82

A calbindin-immunoreactive cone bipolar cell type in the rabbit retina. Massey SC, et al. **J Comp Neurol** 1996 Feb 26;366(1):15–33

CALCIUM-BINDING PROTEIN, VITAMIN D-DEPENDENT

ISOLATION & PURIFICATION

Chick calretinin: purification, composition, and metal binding activity of native and recombinant forms. Stevens J, et al. **Protein Expr Purif** 1997 Mar;9(2):171–81

METABOLISM

Colocalization of calretinin and glucagon in rat pancreatic A cells. Novier A, et al. **Acta Histochem** 1997 Jun; 99(2):217–22

Heterogeneity of expression of the calcium-binding protein calretinin in human colonic cancer cell lines. Gotzos V, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3491–8

Modulation and phosphorylation of calbindin-D28K correlates with protein kinase C activation1. Gagnon A, et al. **Biochem Cell Biol** 1997;75(1):33–40

Determination of calcium-binding sites in rat brain calbindin D28K by electrospray ionization mass spectrometry. Veenstra TD, et al. **Biochemistry** 1997 Mar 25; 36(12):3535–42

Effect of vitamin D on testicular CaBP28K expression and serum testosterone in chickens. Inpanbutr N, et al. **Biol Reprod** 1996 Jan;54(1):242–8

Sparing of striatal neurons coexpressing calretinin and substance P (NK1) receptor in Huntington's disease. Cicchetti F, et al. **Brain Res** 1996 Aug 19;730(1–2):232–7

Calretinin is largely localized to a unique population of striatal interneurons in rats. Figueredo-Cardenas G, et al. **Brain Res** 1996 Feb 12;709(1):145–50

Chronic morphine decreases calbindin D28k immunoreactivity in a subset of cerebellar Purkinje neurons of rat brain. Garcia MM, et al. **Brain Res** 1996 Sep 23; 734(1–2):123–34

The presence of calbindin in rat cortical neurons protects in vitro from oxydative stress. Hugon J, et al. **Brain Res** 1996 Jan 29;707(2):288–92

Coexistence of calbindin D-28k and NADPH-diaphorase in vagal and glossopharyngeal sensory neurons of the rat. Ichikawa H, et al. **Brain Res** 1996 Oct 7;735(2):325–9

Calbindin-D28k-immunoreactivity in the trigeminal ganglion neurons and molar tooth pulp of the rat. Ichikawa H, et al. **Brain Res** 1996 Apr 9;715(1–2):71–8

Prolonged subordination stress increases Calbindin-D28k immunoreactivity in the rat hippocampal CA1 area. Krugers HJ, et al. **Brain Res** 1996 Aug 12;729(2):289–93

Differential age-dependent effects of retinal deafferentation upon calbindin- and parvalbumin-immunoreactive neurons in the superficial layers of the rat's superior colliculus. Lane RD, et al. **Brain Res** 1996 Nov 18;740(1–2):208–14

Calretinin in neurochemically well-defined cell populations of rabbit retina. Völgyi B, et al. **Brain Res** 1997 Jul 18; 763(1):79–86

Partial coexistence of neuropeptide Y and calbindin D28k in the trigeminal ganglion following peripheral axotomy of the inferior alveolar nerve in the rat. Wakisaka S, et al. **Brain Res** 1996 Jan 29;707(2):228–34

Calbindin immunoreactivity delineates the circadian visual centers of the brain of the common marmoset (Callithrix jacchus). Costa MS, et al. **Brain Res Bull** 1997;43(4):369–73

Delayed decrease of calbindin immunoreactivity in the granule cell–mossy fibers after kainic acid–induced seizures. Yang Q, et al. **Brain Res Bull** 1997;43(6):551–9

Calbindin-D28k mRNA expression in magnocellular hypothalamic neurons of female rats during parturition, lactation and following dehydration. Voisin DL, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):279–86

Calretinin in the mouse superior colliculus originates from retinal ganglion cells. Gobersztejn F, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1507–11

Effect of vitamin D metabolites and analogs on renal and intestinal calbindin-D in the rat. Hemmingsen C, et al. **Calcif Tissue Int** 1996 Nov;59(5):371–6

Prenatal development of calbindin D-28K in human visual cortex. Yan XX, et al. **Cereb Cortex** 1997 Jan–Feb; 7(1):57–62

The calretinin-containing mossy cells survive excitotoxic insult in the gerbil dentate gyrus. Comparison of excitotoxicity-induced neuropathological changes in the gerbil and rat. Kotti T, et al. **Eur J Neurosci** 1996 Nov; 8(11):2371–8

Distinct substance P- and calretinin-containing projections from the supramammillary area to the hippocampus in rats; a species difference between rats and monkeys. Borhegyi Z, et al. **Exp Brain Res** 1997 Jun;115(2):369–74

Glutamate, aspartate and co-localization with calbindin in the medial thalamus. An immunohistochemical study in the rat. Frassoni C, et al. **Exp Brain Res** 1997 Jun;115(1):95–104

Calretinin-immunoreactivity in organotypic cultures of the rat cerebral cortex: effects of serum deprivation. Vogt Weisenhorn DM, et al. **Exp Brain Res** 1996 Feb; 108(1):101–12

Parvalbumin- and calbindin D-28k-immunoreactive innervation of orofacial tissues in the rat. Ichikawa H, et al. **Exp Neurol** 1997 Aug;146(2):414–8

Calcium-binding protein phenotype defines metabolically distinct groups of neurons in barrel cortex of behaving hamsters. Maier DL, et al. **Exp Neurol** 1997 May; 145(1):71–80

Calcium-binding proteins in organ of Corti and basilar papilla: CBP-15, an unidentified calcium-binding protein of the inner ear. Senarita M, et al. **Hear Res** 1995 Oct; 90(1–2):169–75

Spatial-temporal expression of calbindin D-28K during embryonic and postnatal development of the fish retina. Vecino E, et al. **Int J Dev Biol** 1996;Suppl 1:217S–218S

Calbindin and parvalbumin are early markers of non-mitotically regenerating hair cells in the bullfrog vestibular otolith organs. Steyger PS, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):417–32

Effect of parathyroid hormone on renal calbindin-D28k. Hemmingsen C, et al. **J Bone Miner Res** 1996 Aug; 11(8):1086–93

Colocalization of parvalbumin and calbindin D-28k in neurons including chandelier cells of the human temporal neocortex. del Río MR, et al. **J Chem Neuroanat** 1997 Mar; 12(3):165–73

Distribution of NADPHdiaphorase and calbindin-D28k neurons in the lateral septal area of the guinea pig, with special reference to the enkephalinergic hypothalamo-septal tract. Doutrelant-Viltart O, et al. **J Chem Neuroanat** 1996 Sep;11(3):199–207

Calbindin D28K-immunoreactivity identifies distinct subpopulations of sympathetic pre- and postganglionic neurons in the rat. Grkovic I, et al. **J Comp Neurol** 1997 Sep 22;386(2):245–59

Distribution of the calcium-binding proteins parvalbumin and calretinin in the auditory brainstem of adult and developing rats. Lohmann C, et al. **J Comp Neurol** 1996 Mar 25; 367(1):90–109

Calbindin-D28k immunoreactivity in the rat amygdala. McDonald AJ. **J Comp Neurol** 1997 Jun 30;383(2):231–44

Calretinin-immunoreactive local circuit neurons in area 17 of the cynomolgus monkey, Macaca fascicularis. Meskenaite V. **J Comp Neurol** 1997 Mar 3;379(1):113–32

Distribution of calretinin-immunoreactivity in the rat entorhinal cortex: coexistence with GABA. Miettinen M, et al. **J Comp Neurol** 1997 Feb 17;378(3):363–78

Calretinin-immunoreactive cells and fibers in the human amygdaloid complex. Sorvari H, et al. **J Comp Neurol** 1996 May 27;369(2):188–208

Distribution of calretinin-immunoreactive septal axons in the normal and deafferented medial habenula of adult rats. Wilson JA, et al. **J Comp Neurol** 1996 Oct 28; 374(4):593–606

Calretinin immunoreactivity in the monkey and cat cerebellum: cellular localisation and modular distribution. Yan XX, et al. **J Hirnforsch** 1996;37(3):409–19

Synaptic connections of calretinin-immunoreactive neurons in the human neocortex. del Río MR, et al. **J Neurosci** 1997 Jul 1;17(13):5143–54

A population of supramammillary area calretinin neurons terminating on medial septal area cholinergic and lateral septal area calbindin-containing cells are aspartate/glutamatergic. Leranth C, et al. **J Neurosci** 1996 Dec 1;16(23):7699–710

Androgen mitigates axotomy-induced decreases in calbindin expression in motor neurons. Pérez J, et al. **J Neurosci** 1997 Oct 1;17(19):7396–403

Triple immunofluorescence labelling of parvalbumin, calbindin-D28k and calretinin in rat and monkey brain. Härtig W, et al. **J Neurosci Methods** 1996 Aug;67(2):89–95

Progressive loss of glutamic acid decarboxylase, parvalbumin, and calbindin D28K immunoreactive neurons in the cerebral cortex and hippocampus of adult rat with experimental hydrocephalus. Tashiro Y, et al. **J Neurosurg** 1997 Feb;86(2):263–71

Age-related loss of calcium binding proteins in rabbit hippocampus. de Jong GI, et al. **Neurobiol Aging** 1996 May–Jun;17(3):459–65

Midbrain dopaminergic neurons in the mouse that contain calbindin-D28k exhibit reduced vulnerability to MPTP-induced neurodegeneration. Liang CL, et al. **Neurodegeneration** 1996 Dec;5(4):313–8

Calretinin in the rat pituitary: colocalization with thyroid-stimulating hormone. Cimini V, et al. **Neuroendocrinology** 1997 Mar;65(3):179–88

Parvalbumin and calbindin D-28 k immunoreactivity in dorsal root ganglia in acquired immunodeficiency syndrome. Nagano I, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):293–301

A calbindin immunoreactive "deep pain' recipient thalamic nucleus in the rat. Floyd NS, et al. **Neuroreport** 1996 Jan 31;7(2):622–6

Age-related loss of calbindin from human basal forebrain cholinergic neurons. Wu CK, et al. **Neuroreport** 1997 Jul 7;8(9–10):2209–13

Calbindin D28k-like immunoreactivity in the gustatory epithelium in the rat. Miyawaki Y, et al. **Neurosci Lett** 1996 Aug 16;214(1):29–32

Immunohistochemical localization of calbindin D28k in the periodontal Ruffini endings of rat incisors. Ochi K, et al. **Neurosci Lett** 1997 Jun 13;228(3):195–8

Calcium-binding proteins in primate basal ganglia. Parent A, et al. **Neurosci Res** 1996 Aug;25(4):309–34 (156 ref.)

Distribution of calretinin-containing neurons relative to other neurochemically identified cell types in the medial septum of the rat. Kiss J, et al. **Neuroscience** 1997 May; 78(2):399–410

Midbrain dopaminergic neurons in the mouse: co-localization with Calbindin-D28K and calretinin. Liang CL, et al. **Neuroscience** 1996 Nov;75(2):523–33

Loss of Calbindin-D28K immunoreactivity from dentate granule cells in human temporal lobe epilepsy. Maglóczky Z, et al. **Neuroscience** 1997 Jan;76(2):377–85

The expression pattern of somatostatin and calretinin by postnatal hippocampal interneurons is regulated by activity-dependent and -independent determinants. Marty S, et al. **Neuroscience** 1997 Sep;80(1):79–88

Glial cell line-derived neurotrophic factor protects striatal calbindin-immunoreactive neurons from excitotoxic damage. Pérez-Navarro E, et al. **Neuroscience** 1996 Nov; 75(2):345–52

Ultrastructural localization of calbindin-D28k and GABA in the matrix compartment of the rat caudate-putamen nuclei. Pickel VM, et al. **Neuroscience** 1996 Mar; 71(1):167–78

Calbindin-D28K-immunoreactive cells and fibres in the human amygdaloid complex. Sorvari H, et al. **Neuroscience** 1996 Nov;75(2):421–43

Compartmentalization of calbindin and parvalbumin in different parts of rat rubrospinal neurons. Wang YJ, et al. **Neuroscience** 1996 Sep;74(2):427–34

Transfection and overexpression of the calcium binding protein calbindin-D28k results in a stimulatory effect on insulin synthesis in a rat beta cell line (RIN 1046–38). Reddy D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4; 94(5):1961–6

Calretinin in the cat retina: colocalizations with other calcium-binding proteins, GABA and glycine. Goebel DJ, et al. **Vis Neurosci** 1997 Mar–Apr;14(2):311–22

Projection status of calbindin- and parvalbumin-immunoreactive neurons in the superficial layers of the rat's superior colliculus. Lane RD, et al. **Vis Neurosci** 1997 Mar–Apr;14(2):277–86

Calcium-binding proteins immunoreactivity in the human subcortical and cortical visual structures. Leuba G, et al. **Vis Neurosci** 1996 Nov–Dec;13(6):997–1009

[Expression of calcium-binding proteins parvalbumin and calbindin in neurons of the neocortex grafts] Aleksandrova MA, et al. **Dokl Akad Nauk** 1997 Jul;355(1):130–3 **(Rus)**

PHYSIOLOGY

Identification and molecular characterization of the CalB domain of the cytosolic phospholipase A2 (cPLA2) in human neutrophils. Zhang H, et al. **Adv Exp Med Biol** 1996;416:305–8

The expression of calretinin in transfected PC12 cells provides no protection against Ca(2+)-overload or trophic factor deprivation. Kuźnicki J, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):194–200

Vulnerability of midbrain dopaminergic neurons in calbindin-D28k-deficient mice: lack of evidence for a neuroprotective role of endogenous calbindin in MPTP-treated and weaver mice. Airaksinen MS, et al. **Eur J Neurosci** 1997 Jan;9(1):120–7

Calretinin-immunoreactive dopaminergic neurons from embryonic rat mesencephalon are resistant to levodopa-induced neurotoxicity. Isaacs KR, et al. **Exp Neurol** 1997 Jul;146(1):25–32

GABAergic neurons in the rat dentate gyrus are innervated by subcortical calretinin-containing afferents. Nitsch R, et al. **J Comp Neurol** 1996 Jan 15;364(3):425–38

Ataxia and altered dendritic calcium signaling in mice carrying a targeted null mutation of the calbindin D28k gene. Airaksinen MS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1488–93

URINE

Urinary 28-kD calbindin-D as a new marker for damage to distal renal tubules caused by cisplatin-based chemotherapy. Takashi M, et al. **Urol Int** 1996;56(3):174–9

CALCIUM-BINDING PROTEIN, VITAMIN K-DEPENDENT see **OSTEOCALCIN**

CALCIUM-BINDING PROTEINS

Proceedings of the 4th European Symposium on Calcium-Binding Proteins in Normal and Transformed Cells. Perugia, Italy, 2–5 May 1996. **Biochim Biophys Acta** 1996 Oct 11;1313(3):173–301

Nomenclature: vertebrate mediators of TGFbeta family signals [letter] Derynck R, et al. **Cell** 1996 Oct 18;87(2):173

Purification of active calpain by affinity chromatography on an immobilized peptide inhibitor. Anagli J, et al. **Eur J Biochem** 1996 Nov 1;241(3):948–54

The calpain-calpastatin system in rheumatoid arthritis. Ménard HA, et al. **Immunol Today** 1996 Dec;17(12):545–7 (36 ref.)

ANALYSIS

Reduced expression of calponin in canine basilar artery after subarachnoid haemorrhage. Doi M, et al. **Acta Neurochir (Wien)** 1997;139(1):77–81

Detection of calcium binding proteins by two-dimensional sodium dodecyl sulfate-polyacrylamide gel electrophoresis. Kameshita I, et al. **Anal Biochem** 1997 Jul 1;249(2):252–5

Synovial fluid concentrations of the C-propeptide of type II collagen correlate with body mass index in primary knee osteoarthritis. Kobayashi T, et al. **Ann Rheum Dis** 1997 Aug;56(8):500–3

Elevated expression of the neutrophil calcium-binding protein, MRP-14, in metastasis-enhancing neutrophils. McGary CT, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):1–6

Immunoreactivities of p11 and calcyclin in baker's yeast, wheat germ and lobster. Kuo WN, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):209–15

Neurocalcin immunoreactivity in the rat accessory olfactory bulb. Porteros A, et al. **Brain Res** 1996 Aug 5;729(1):82–9

Time-resolved fluorescence of S-100a protein: effect of Ca2+, Mg2+ and unilamellar vesicles of egg phosphatidylcholine. Zolese G, et al. **Cell Calcium** 1996 Dec;20(6):465–74

Translationally controlled tumor protein: a protein identified in several nontumoral cells including erythrocytes. Sanchez JC, et al. **Electrophoresis** 1997 Jan;18(1):150–5

Differential distribution of calcium stores in paramecium cells. Occurrence of a subplasmalemmal store with a calsequestrin-like protein. Plattner H, et al. **Eur J Cell Biol** 1997 Apr;72(4):297–306

Transient colocalization of parvalbumin and calbindin D28k in the postnatal cerebral cortex: evidence for a phenotypic shift in developing nonpyramidal neurons. Alcantara S, et al. **Eur J Neurosci** 1996 Jul;8(7):1329–39

Synaptic distribution of the AMPA-GluR2 subunit and its colocalization with calcium-binding proteins in rat cerebral cortex: an immunohistochemical study using a GluR2-specific monoclonal antibody. Vissavajjhala P, et al. **Exp Neurol** 1996 Dec;142(2):296–312

Calcium binding proteins in the development of central nucleus of amygdaloid body—a morphometric and immunohistochemical study. Sidorowicz M, et al. **Folia Morphol (Warsz)** 1996;55(4):437–9

APF/CBP, the small, amphipathic, anionic protein(s) in bile and gallstones, consists of lipid-binding and calcium-binding forms. Lafont H, et al. **Hepatology** 1997 May;25(5):1054–63

Expression pattern of S100 calcium-binding proteins in human tumors. Ilg EC, et al. **Int J Cancer** 1996 Nov 4; 68(3):325–32

Development of an enzyme-linked immunosorbent assay (ELISA) for quantification of skeletal muscle calpastatin. Doumit ME, et al. **J Anim Sci** 1996 Nov;74(11):2679–86

S100A11, S100A10, annexin I, desmosomal proteins, small proline-rich proteins, plasminogen activator inhibitor-2, and involucrin are components of the cornified envelope of cultured human epidermal keratinocytes. Robinson NA, et al. **J Biol Chem** 1997 May 2;272(18):12035–46

Distribution of neuronal populations containing neurofilament protein and calcium-binding proteins in the canine neocortex: regional analysis and cell typology. Hof PR, et al. **J Chem Neuroanat** 1996 Aug;11(2):81–98

Local-circuit neurones in the medial prefrontal cortex (areas 25, 32 and 24b) in the rat: morphology and quantitative distribution. Gabbott PL, et al. **J Comp Neurol** 1997 Jan 27;377(4):465–99

Ca(2+)-binding proteins S100A6 and S100B in primary cutaneous melanoma. Böni R, et al. **J Cutan Pathol** 1997 Feb;24(2):76–80

Proteins and bioprosthetic calcification in the rat model. Shen M, et al. **J Heart Valve Dis** 1996 Jan;5(1):50–7

Immunocytochemical localization of caldesmon and calponin in chicken gizzard smooth muscle. Mabuchi K, et al. **J Muscle Res Cell Motil** 1996 Apr;17(2):243–60

Profiles of neuronal thread protein expression in Alzheimer's disease. De La Monte SM, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1038–50

Identification of calprotectin, a calcium binding leukocyte protein, in human dental calculus matrix. Kido J, et al. **J Periodontal Res** 1997 May;32(4):355–61

Cancer-associated retinopathy syndrome: a case of small cell lung cancer expressing recoverin immunoreactivity. Matsubara S, et al. **Lung Cancer** 1996 Jun;14(2-3):265–71

Differential distribution of calcium-binding proteins in the dorsal column nuclei of rats: a combined immunohistochemical and retrograde tract tracing study. Magnusson A, et al. **Neuroscience** 1996 Jul;73(2):497–508

Immunohistological localization of regenerating protein in ocular structures. Fredj-Reygrobellet D, et al. **Ophthalmic Res** 1996;28(2):130–6

ANTAGONISTS & INHIBITORS

Regional differences in gene expression for calcium activated neutral proteases (calpains) and their endogenous inhibitor calpastatin in mouse brain and spinal cord. Li J, et al. **J Neurobiol** 1996 Jun;30(2):177–91

BIOSYNTHESIS

Lithostathine: place in chronic pancreatitis, pathogenesis. Laugier R, et al. **Acta Gastroenterol Belg** 1996 Jul-Sep; 59(3):188–90 (40 ref.)

Cloning, expression, and tissue localization of the calcium-sensing receptor in chicken (Gallus domesticus). Diaz R, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1008–16

Induction of calcyclin after ischemic injury to rat kidney. Lewington AJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F380–5

Matrix Gla protein gene expression is induced by transforming growth factor-beta in embryonic lung culture. Zhao J, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L282–7

Early expression of recoverin in a unique population of neurons in the human retina. Yan XX, et al. **Anat Embryol (Berl)** 1997 Jan;195(1):51–63

The expression of the molecular chaperone calnexin is decreased in cancer cells grown as colonies compared to monolayer. Yeates LC, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):66–70

Expression and epitopic conservation of calponin in different smooth muscles and during development. Jin JP, et al. **Biochem Cell Biol** 1996;74(2):187–96

Induction of calreticulin expression in HeLa cells by depletion of the endoplasmic reticulum Ca2+ store and inhibition of N-linked glycosylation. Llewellyn DH, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):555–60

Expression and reconstitution of calcineurin A and B subunits. Wei Q, et al. **Biochem Mol Biol Int** 1997 Jan; 41(1):169–77

Calreticulin biosynthesis and processing in human myeloid cells: demonstration of signal peptide cleavage and N-glycosylation. Denning GM, et al. **Blood** 1997 Jul 1; 90(1):372–81

Diurnal expression of recoverin in the rat retina. Wiechmann AF, et al. **Brain Res Mol Brain Res** 1997 May;45(2):321–4

Preneoplasia-associated expression of calcyclin and of binding sites for synthetic blood group A/H trisaccharide—exposing neoglycoconjugates in human lung. Kayser K, et al. **Cancer Biochem Biophys** 1997 Jun; 15(4):235–43

CED-4 induces chromatin condensation in Schizosaccharomyces pombe and is inhibited by direct physical association with CED-9. James C, et al. **Curr Biol** 1997 Apr 1;7(4):246–52

Adenovirus-mediated transfer of the smooth muscle cell calponin gene inhibits proliferation of smooth muscle cells and fibroblasts. Jiang Z, et al. **FEBS Lett** 1997 Aug 25; 413(3):441–5

Expression of the S-100 proteins MRP-8 and -14 in ischemic brain lesions. Postler E, et al. **Glia** 1997 Jan;19(1):27–34

Rat brain oligodendrocytes do not interact selectively with axons expressing different calcium-binding proteins. Weruaga-Prieto E, et al. **Glia** 1996 Feb;16(2):117–28

Ectopic expression of the calcium-binding protein parvalbumin in mouse liver endothelial cells. Castillo MB, et al. **Hepatology** 1997 May;25(5):1154–9

Differential expression patterns of S100A2, S100A4 and S100A6 during progression of human malignant melanoma. Maelandsmo GM, et al. **Int J Cancer** 1997 Aug 22; 74(4):464–9

Defective tumor vascularization induced by metastasin 1 expression. Onischenko A, et al. **Invasion Metastasis** 1996; 16(3):160–8

Calumenin, a Ca2+-binding protein retained in the endoplasmic reticulum with a novel carboxyl-terminal sequence, HDEF. Yabe D, et al. **J Biol Chem** 1997 Jul 18;272(29):18232–9

Calreticulin expression in spinal motoneurons of the rat. Copray JC, et al. **J Chem Neuroanat** 1996 Jul;11(1):57–65

Expression of the calcium-sensing receptor on human antral gastrin cells in culture. Ray JM, et al. **J Clin Invest** 1997 May 15;99(10):2328–33

Characterization of a human cardiac gene which encodes for a LIM domain protein and is developmentally expressed in myocardial development. Fung YW, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1203–10

Modulation of neuronal thread protein expression with neuritic sprouting: relevance to Alzheimer's disease. de la Monte SM, et al. **J Neurol Sci** 1996 Jun;138(1-2):26–35

Identification of estrogen-responsive genes in neuroblastoma SK-ER3 cells. Garnier M, et al. **J Neurosci** 1997 Jun 15; 17(12):4591–9

Enhancement of calcyclin gene RNA expression in squamous cell carcinoma of the oral mucosa, but not in benign lesions. Berta GN, et al. **J Oral Pathol Med** 1997 May;26(5):206–10

Human fibulin-1D: molecular cloning, expression and similarity with S1-5 protein, a new member of the fibulin gene family. Tran H, et al. **Matrix Biol** 1997 Mar; 15(7):479–93

Characterization of spindle assembly checkpoint in Xenopus egg extracts. Chen RH, et al. **Methods Enzymol** 1997; 283:572–84

Expression of calcium-binding protein regucalcin mRNA in hepatoma cells. Makino R, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):85–90

Alterations in Ca2+-ATPase activity and calcium-binding protein regucalcin mRNA expression in the kidney cortex of rats with saline ingestion. Shinya N, et al. **Mol Cell Biochem** 1997 May;170(1-2):17–22

Characterization of the rat hippocalcin gene: the 5' flanking region directs expression to the hippocampus. Grant AL, et al. **Neuroscience** 1996 Dec;75(4):1099–115

Identification of a novel negative retinoic acid responsive element in the promoter of the human matrix Gla protein gene. Kirfel J, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2227–32

Pre- and postnatal expression of amino acid neurotransmitters, calcium binding proteins, and nitric oxide synthase in the developing superior colliculus. Mize RR, et al. **Prog Brain Res** 1996;108:313–32 (85 ref.)

BLOOD

Erythrocytic calpain-calpastatin system in Alzheimer's disease. Soldati L, et al. **Aging (Milano)** 1996 Apr;8(2):106–8

Comparison of serum S-100 beta levels during CABG and intracardiac operations. Taggart DP, et al. **Ann Thorac Surg** 1997 Feb;63(2):492–6

Calcium-binding properties of human erythrocyte calpain. Michetti M, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):721–6

Elevated plasma levels of L1L and L1H in CF patients. Clohessy PA, et al. **Biochem Soc Trans** 1996 May; 24(2):310S

The calpain-calpastatin system in obsessive-compulsive disorder. Mundo E, et al. **Biol Psychiatry** 1997 Aug 1; 42(3):228–9

MRP 8/14 as marker for Plasmodium falciparum-induced malaria episodes in individuals in a holoendemic area. Bordmann G, et al. **Clin Diagn Lab Immunol** 1997 Jul; 4(4):435–9

Serum content of the C-propeptide of the cartilage molecule type II collagen in children. Carey DE, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):325–8

Enzyme-linked immunosorbent assay for human MRP-8/MRP-14 proteins and their quantitation in plasma of hematological patients. Ivanov GE, et al. **Immunol Lett** 1996 Jan;49(1-2):7–13

Potential sensitivity of hepatic specific protein regucalcin as a marker of chronic liver injury. Yamaguchi M, et al. **Mol Cell Biochem** 1997 Feb;167(1-2):187–90

Release of interleukin-8 and calprotectin during and after paediatric cardiopulmonary bypass with and without ultrafiltration. Saatvedt K, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(2):53–9

Time-scale of interleukin-6, myeloid related proteins (MRP), C reactive protein (CRP), and endotoxin plasma levels during the postoperative acute phase reaction. Berger D, et al. **Shock** 1997 Jun;7(6):422–6

Accumulation of unphosphorylated calponin in the submembranous cytoskeletons of arachidonic acid-stimulated human platelets. Meyer T, et al. **Thromb Haemost** 1996 Apr;75(4):617–22

CEREBROSPINAL FLUID

Alzheimer disease experts advise a 'wait for the data' response to new diagnostic test [news] Stephenson J. **JAMA** 1997 Mar 19;277(11):870

CHEMISTRY

Cation-dependent interactions of calreticulin with denatured and native proteins. Wiuff C, et al. **Acta Chem Scand** 1996 Sep;50(9):788–95

Structural perspectives of phospholamban, a helical transmembrane pentamer. Arkin IT, et al. **Annu Rev Biophys Biomol Struct** 1997;26:157–79 (76 ref.)

Functional expression and characterization of frog photoreceptor-specific calcium-binding proteins. Hisatomi O, et al. **Biochem Biophys Res Commun** 1997 May 8; 234(1):173–7

A protein with a novel calcium-binding domain associated with calcareous corpuscles in Echinococcus granulosus. Rodrigues JJ, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):451–6

Mutation and phosphorylation change the oligomeric structure of phospholamban in lipid bilayers. Cornea RL, et al. **Biochemistry** 1997 Mar 11;36(10):2960–7

Optimizing the metal binding parameters of an EF-hand-like calcium chelation loop: coordinating side chains play a more important tuning role than chelation loop flexibility. Drake SK, et al. **Biochemistry** 1997 Aug 12;36(32):9917–26

Mechanism of direct coupling between binding and induced structural change in regulatory calcium binding proteins. Gagné SM, et al. **Biochemistry** 1997 Apr 15;36(15):4386–92

Effect of mutagenesis of GPIIb amino acid 273 on the expression and conformation of the platelet integrin GPIIb-IIIa. Kahn MJ, et al. **Biochemistry** 1996 Nov 12; 35(45):14304–11

Calcium binding peptides from alpha-lactalbumin: implications for protein folding and stability. Kuhlman B, et al. **Biochemistry** 1997 Apr 15;36(15):4607–15

Functional reconstitution of photoreceptor guanylate cyclase with native and mutant forms of guanylate cyclase-activating protein 1. Otto-Bruc A, et al. **Biochemistry** 1997 Apr 8;36(14):4295–302

Steady-state and time-resolved fluorescence measurements for studying molecular interactions: interaction of a calcium-binding probe with proteins. Hirshfield KM, et al. **Biophys Chem** 1996 Nov 29;62(1-3):25–38

Application of NMR spectroscopy to muscle calcium-binding proteins. Sykes BD. **Braz J Med Biol Res** 1996 Jul;29(7):825–9 (27 ref.)

Shining the light: the mechanism of the bioluminescence reaction of calcium-binding photoproteins. Ohmiya Y, et al. **Chem Biol** 1996 May;3(5):337–47 (68 ref.)

Extracellular calcium-binding proteins. Maurer P, et al. **Curr Opin Cell Biol** 1996 Oct;8(5):609–17 (63 ref.)

Keeping calcium in its place: Ca(2+)-ATPase and phospholamban. Stokes DL. **Curr Opin Struct Biol** 1997 Aug;7(4):550–6 (27 ref.)

Dimer model for the microfibrillar protein fibulin-2 and identification of the connecting disulfide bridge. Sasaki T, et al. **EMBO J** 1997 Jun 2;16(11):3035–43

Chimeras of parvalbumin and oncomodulin involving exchange of the complete CD site show that the Ca2+/Mg2+ specificity is an intrinsic property of the site. Durussel I, et al. **Eur J Biochem** 1996 Dec 1;242(2):256–63

Modified helix-loop-helix motifs of calmodulin—The influence of the exchange of helical regions on calcium-binding affinity. Sharma Y, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):42–8

Electrostatic effects of smooth muscle calponin on actin assembly. Tang JX, et al. **Eur J Biochem** 1997 Jul 1; 247(1):432–40

The Caenorhabditis elegans death protein Ced-4 contains a motif with similarity to the mammalian 'death effector domain'. Bauer MK, et al. **FEBS Lett** 1997 Feb 3; 402(2–3):256–8

Direct physical interaction between the Caenorhabditis elegans 'death proteins' CED-3 and CED-4. Irmler M, et al. **FEBS Lett** 1997 Apr 7;406(1–2):189–90

Nereis sarcoplasmic Ca2+–binding protein has a highly unstructured apo state which is switched to the native state upon binding of the first Ca2+ ion. Prêcheur B, et al. **FEBS Lett** 1996 Oct 14;395(1):89–94

Binding specificity and in vivo targets of the EH domain, a novel protein–protein interaction module. Salcini AE, et al. **Genes Dev** 1997 Sep 1;11(17):2239–49

Primary structure of the N-linked carbohydrate chains of Calreticulin from spinach leaves. Navazio L, et al. **Glycoconj J** 1996 Dec;13(6):977–83

Effect of Ca2+ on the structure and function of factor VIIa. Petersen LC, et al. **Haemostasis** 1996;26 Suppl 1:40–4 (26 ref.)

Effect of Ca2+ on the structure of vitamin K–dependent coagulation factors. Sunnerhagen M, et al. **Haemostasis** 1996;26 Suppl 1:45–53 (44 ref.)

Calcium–dependent phospholipid binding to the C2A domain of a ubiquitous form of double C2 protein (Doc2 beta). Kojima T, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):671–6

Fluorescence energy transfer study of troponin C–melittin complex. Sano H, et al. **J Biochem (Tokyo)** 1995 Nov; 118(5):996–1000

Secondary structure and Ca2+–induced conformational change of calexcitin, a learning–associated protein. Ascoli GA, et al. **J Biol Chem** 1997 Oct 3;272(40):24771–9

Strong interaction between caldesmon and calponin. Graceffa P, et al. **J Biol Chem** 1996 Nov 29;271(48):30336–9

Sites of interaction between kinase–related protein and smooth muscle myosin. Silver DL, et al. **J Biol Chem** 1997 Oct 3;272(40):25353–9

Fibulin–2 binds to the short arms of laminin–5 and laminin–1 via conserved amino acid sequences. Utani A, et al. **J Biol Chem** 1997 Jan 31;272(5):2814–20

Characterization of green alga, yeast, and human centrins. Specific subdomain features determine functional diversity. Wiech H, et al. **J Biol Chem** 1996 Sep 13;271(37):22453–61

Structure of the transmembrane cysteine residues in phospholamban. Arkin IT, et al. **J Membr Biol** 1997 Feb 1;155(3):199–206

Binding of fibulin–1 to nidogen depends on its C–terminal globular domain and a specific array of calcium–binding epidermal growth factor–like (EG) modules. Adam S, et al. **J Mol Biol** 1997 Sep 19;272(2):226–36

Structural and functional aspects of calcium binding in extracellular matrix proteins. Maurer P, et al. **Matrix Biol** 1997 Mar;15(8–9):569–80; discussion 581 (93 ref.)

Crystal structure of a calponin homology domain [letter] Carugo KD, et al. **Nat Struct Biol** 1997 Mar;4(3):175–9

Similarity between C2 domain jaws and immunoglobulin CDRs [letter] Grobler JA, et al. **Nat Struct Biol** 1997 Apr; 4(4):261–2

Molecular mechanics of calcium–myristoyl switches. Ames JB, et al. **Nature** 1997 Sep 11;389(6647):198–202

An essential bipolar mitotic motor [letter] Kashina AS, et al. **Nature** 1996 Nov 21;384(6606):225

Identification of parvalbumin alpha in bovine hypothalamus: a partial primary structure. Gurvits BYa, et al. **Neurochem Res** 1997 Jul;22(7):799–803

Oxidative degradation of antiflammin 2. Ye JM, et al. **Pharm Res** 1996 Feb;13(2):250–5

What function for human lithostathine?: structural investigations by three–dimensional structure modeling and high–resolution NMR spectroscopy. Patard L, et al. **Protein Eng** 1996 Nov;9(11):949–57

Oligomerization state of S100B at nanomolar concentration determined by large–zone analytical gel filtration chromatography. Drohat AC, et al. **Protein Sci** 1997 Jul; 6(7):1577–82

The C2 domain calcium–binding motif: structural and functional diversity. Nalefski EA, et al. **Protein Sci** 1996 Dec;5(12):2375–90 (139 ref.)

Monitoring calcium–induced conformational changes in recoverin by electrospray mass spectrometry. Neubert TA, et al. **Protein Sci** 1997 Apr;6(4):843–50

1H NMR assignments of apo calcyclin and comparative structural analysis with calbindin D9k and S100 beta. Potts BC, et al. **Protein Sci** 1996 Nov;5(11):2162–74

Comparative modeling of the three–dimensional structure of the calmodulin–related TCH2 protein from Arabidopsis. Khan AR, et al. **Proteins** 1997 Jan;27(1):144–53

Crystallization and preliminary X–ray crystallographic studies of recombinant bovine neurocalcin delta. Kumar VD, et al. **Proteins** 1996 Jun;25(2):261–4

The solution structure of the bovine S100B protein dimer in the calcium–free state. Kilby PM, et al. **Structure** 1996 Sep 15;4(9):1041–52

DEFICIENCY

beta–Adrenergic regulation of cAMP and protein phosphorylation in phospholamban–knockout mouse hearts. Kiss E, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H785–90

Phospholamban deficiency alters inactivation kinetics of L–type Ca2+ channels in mouse ventricular myocytes. Masaki H, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H606–12

Phospholamban ablation enhances relaxation in the murine soleus. Slack JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C1–6

Effect of ablation of phospholamban on dynamics of cardiac myocyte contraction and intracellular Ca2+. Wolska BM, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C391–7

Simultaneous measurement of intracellular calcium and ventricular function in the phospholamban–deficient mouse heart. Hampton TG, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):836–41

Compensatory mechanisms associated with the hyperdynamic function of phospholamban–deficient mouse hearts. Chu G, et al. **Circ Res** 1996 Dec;79(6):1064–76

Sarcoplasmic reticulum Ca2+ATPase and phospholamban mRNA and protein levels in end–stage heart failure due to ischemic or dilated cardiomyopathy. Flesch M, et al. **J Mol Med** 1996 Jun;74(6):321–32

Calcium sparks and excitation–contraction coupling in phospholamban–deficient mouse ventricular myocytes. Santana LF, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):21–9

Spontaneous calcification of arteries and cartilage in mice lacking matrix GLA protein. Luo G, et al. **Nature** 1997 Mar 6;386(6620):78–81

DRUG EFFECTS

A flickery block of a K+ channel mediated by extracellular Ca2+ and other agonists of the Ca2+–sensing receptors in dispersed bovine parathyroid cells. Vassilev PM, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):616–23

Amyloid–beta proteins activate Ca(2+)–permeable channels through calcium–sensing receptors. Ye C, et al. **J Neurosci Res** 1997 Mar 1;47(5):547–54

GENETICS

Differential expression of CRABP II, psoriasin and cytokeratin 1 mRNA in human skin diseases. Algermissen B, et al. **Arch Dermatol Res** 1996 Jul;288(8):426–30

Topical all–trans retinoic acid (RA) induces an early, coordinated increase in RA–inducible skin–specific gene/psoriasin and cellular RA–binding protein II mRNA levels which precedes skin erythema. Zouboulis CC, et al. **Arch Dermatol Res** 1996 Oct;288(11):664–9

cDNA cloning of human allograft inflammatory factor–1: tissue distribution, cytokine induction, and mRNA expression in injured rat carotid arteries. Autieri MV. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):29–37

Loss of calcyphosine gene expression in mouse and other rodents. Clément S, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):407–13

Differential display of reticulocalbin in the highly invasive cell line, MDA–MB–435, versus the poorly invasive cell line, MCF–7. Liu Z, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):283–9

A protein with a novel calcium–binding domain associated with calcareous corpuscles in Echinococcus granulosus. Rodrigues JJ, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):451–6

Calcyclin gene expression modulation by medroxyprogesterone acetate. Ghezzo F, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):299–305

Regulatory elements in the first intron of the rat S100A4 (p9Ka) gene. Chen DS, et al. **Biochem Soc Trans** 1996 Aug; 24(3):352S

Growth & mammary abnormalities in mice containing an altered calcium–binding protein transgene. Davies MP, et al. **Biochem Soc Trans** 1996 Aug;24(3):356S

S100A3 mRNA expression displays an inverse correlation to breast cancer progression. Lloyd BH, et al. **Biochem Soc Trans** 1996 Aug;24(3):340S

Cloning and sequence analysis of human calcyphosine complementary DNA. El Housni H, et al. **Biochim Biophys Acta** 1997 Jun 26;1352(3):249–52

The bimC family of kinesins: essential bipolar mitotic motors driving centrosome separation. Kashina AS, et al. **Biochim Biophys Acta** 1997 Jul 24;1357(3):257–71 (49 ref.)

Altered expression of the Ca(2+)–binding protein S100A1 in human cardiomyopathy. Remppis A, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):253–7

Localization of calcium receptor mRNA in the adult rat central nervous system by in situ hybridization. Rogers KV, et al. **Brain Res** 1997 Jan 2;744(1):47–56

Postnatal developmental changes of neurons expressing calcium–binding proteins and GAD mRNA in the pretectal nuclear complex of the cat. Wahle P, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):72–86

Molecular cloning of mouse Doc2alpha and distribution of its mRNA in adult mouse brain. Naito A, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):198–204

beta–Amyloid regulates gene expression of glial trophic substance S100 beta in C6 glioma and primary astrocyte cultures. Peña LA, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):118–26

Molecular cloning of ictacalcin: a novel calcium–binding protein from the channel catfish, Ictalurus punctatus. Porta AR, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):81–9

Mapping of the molecular determinants involved in the interaction between eps15 and AP–2. Iannolo G, et al. **Cancer Res** 1997 Jan 15;57(2):240–5

Induction of cell growth regulatory genes by p53. Madden SL, et al. **Cancer Res** 1996 Dec 1;56(23):5384–90

Calreticulin. Krause KH, et al. **Cell** 1997 Feb 21;88(4):439–43 (25 ref.)

Characterization of the human S100A12 (calgranulin C, p6, CAAF1, CGRP) gene, a new member of the S100 gene cluster on chromosome 1q21. Wicki R, et al. **Cell Calcium** 1996 Dec;20(6):459–64

Adenoviral gene transfer of phospholamban in isolated rat cardiomyocytes. Rescue effects by concomitant gene transfer of sarcoplasmic reticulum Ca(2+)–ATPase. Hajjar RJ, et al. **Circ Res** 1997 Aug;81(2):145–53

Targeted ablation of the phospholamban gene is associated with a marked decrease in sensitivity in aortic smooth muscle. Lalli J, et al. **Circ Res** 1997 Apr;80(4):506–13

Caenorhabditis elegans CED–4 stimulates CED–3 processing and CED–3–induced apoptosis. Seshagiri S, et al. **Curr Biol** 1997 Jul 1;7(7):455–60

Sequence of a human cDNA encoding Cab45, a Ca2+–binding protein with six EF–hand motifs. Koivu T, et al. **DNA Seq** 1997;7(3–4):217–20

Expression of cDNA clones by coupled in vitro transcription/translation and transfection into COS–1 cells: protein mapping in two–dimensional gels. Madsen P, et al. **Electrophoresis** 1995 Dec;16(12):2258–61

PRAP, a prolactin receptor associated protein: its gene expression and regulation in the corpus luteum. Duan WR, et al. **Endocrinology** 1997 Aug;138(8):3216–21

A limited genomic region contains the human REG and REG–related genes. Bartoli C, et al. **Eur J Hum Genet** 1995;3(6):344–50

Fibulin–2: genetic mapping and exclusion as a candidate gene in Marfan syndrome type 2. Collod G, et al. **Eur J Hum Genet** 1996;4(5):292–5

Acidic calponin cloned from neural cells is differentially expressed during rat brain development. Ferhat L, et al. **Eur J Neurosci** 1996 Jul;8(7):1501–9

Homologues of the 24–kDa flagellar Ca(2+)–binding protein gene of Trypanosoma cruzi are present in other members of the Trypanosomatidae family. Maldonado RA, et al. **Exp Parasitol** 1997 Jul;86(3):200–5

Trypanosoma rangeli and Trypanosoma cruzi: molecular characterization of genes encoding putative calcium–binding proteins, highly conserved in trypanosomatids. Porcel BM, et al. **Exp Parasitol** 1996 Dec; 84(3):387–99

Differential translational initiation of lbp mRNA is caused by a 5' upstream open reading frame. Mittag M, et al. **FEBS Lett** 1997 Jul 14;411(2–3):245–50

Engineering thermolysin–like proteases whose stability is largely independent of calcium. Veltman OR, et al. **FEBS Lett** 1997 Mar 24;405(2):241–4

Nucleotide sequence of a Drosophila melanogaster cDNA encoding a calnexin homologue. Christodoulou S, et al. **Gene** 1997 Jun 3;191(2):143–8

Drosophila melanogaster contains both X–linked and autosomal homologues of the gene encoding calcineurin B. Warren WD, et al. **Gene** 1996 Oct 24;177(1–2):149–53

The reticulocalbin gene maps to the WAGR region in human and to the Small eye Harwell deletion in mouse. Kent J, et al. **Genomics** 1997 Jun 1;42(2):260–7

The human GCAP1 and GCAP2 genes are arranged in a tail–to–tail array on the short arm of chromosome 6 (p21.1). Surguchov A, et al. **Genomics** 1997 Feb 1;39(3):312–22

Alternatively spliced exons encode the tissue–specific 5' termini of leukocyte pp52 and stromal cell S37 mRNA isoforms. Thompson AA, et al. **Genomics** 1996 Mar 15; 32(3):352–7

Exits from the maze of apoptosis? Kass GE. **Hum Exp Toxicol** 1996 Aug;15(8):694–5

Differential loss of heterozygosity in familial, sporadic, and uremic hyperparathyroidism. Farnebo F, et al. **Hum Genet** 1997 Mar;99(3):342–9

PlcR1 and PlcR2 are putative calcium–binding proteins required for secretion of the hemolytic phospholipase C of Pseudomonas aeruginosa. Cota–Gomez A, et al. **Infect Immun** 1997 Jul;65(7):2904–13

Regeneration and luminescence of aequorin in Chinese hamster ovary cells transformed with cDNA for apoaequorin. Sanchez–Bueno A, et al. **Int J Biochem Cell Biol** 1996 Sep;28(9):1045–9

Elevated expression of calcium–binding protein p9Ka is associated with increasing malignant characteristics of rat prostate carcinoma cells. Ke Y, et al. **Int J Cancer** 1997 May 29;71(5):832–7

Evaluation of the human gene encoding recoverin in patients with retinitis pigmentosa or an allied disease. Parminder AH, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):704–9

mRNA levels of the calpain system in longissimus muscle of young pigs during prolonged feeding of a protein–free diet. van den Hemel–Grooten HN, et al. **J Anim Sci** 1997 Apr;75(4):968–74

Molecular cloning and characterization of human non–smooth muscle calponin. Masuda H, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):415–24

Identification of the Ca(2+)–binding domains in reticulocalbin, an endoplasmic reticulum resident Ca(2+)–binding protein with multiple EF–hand motifs. Tachikui H, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):145–9

The 5'-flanking region of the human smooth muscle cell calponin gene contains a cis-acting domain for interaction with a methylated DNA-binding transcription repressor. Takahashi K, et al. **J Biochem (Tokyo)** 1996 Jul; 120(1):18-21

Transcriptional down-regulation of the metastasis-inducing S100A4 (p9Ka) in benign but not in malignant rat mammary epithelial cells by GC-factor. Chen D, et al. **J Biol Chem** 1997 Aug 8;272(32):20283-90

Identification of a novel calcium-binding protein that interacts with the integrin alphaIIb cytoplasmic domain. Naik UP, et al. **J Biol Chem** 1997 Feb 21;272(8):4651-4

A kappaB-related binding site is an integral part of the mts1 gene composite enhancer element located in the first intron of the gene. Tulchinsky E, et al. **J Biol Chem** 1997 Feb 21;272(8):4828-35

The evolutionary pressure to inactivate. A subclass of synaptotagmins with an amino acid substitution that abolishes Ca2+ binding. von Poser C, et al. **J Biol Chem** 1997 May 30;272(22):14314-9

Calumenin, a Ca2+-binding protein retained in the endoplasmic reticulum with a novel carboxyl-terminal sequence, HDEF. Yabe D, et al. **J Biol Chem** 1997 Jul 18;272(29):18232-9

Cloning and characterization of a calcium-sensing receptor from the hypercalcemic New Zealand white rabbit reveals unaltered responsiveness to extracellular calcium. Butters RR Jr, et al. **J Bone Miner Res** 1997 Apr;12(4):568-79

Granule lattice protein 1 (Grl1p), an acidic, calcium-binding protein in Tetrahymena thermophila dense-core secretory granules, influences granule size, shape, content organization, and release but not protein sorting or condensation. Chilcoat ND, et al. **J Cell Biol** 1996 Dec; 135(6 Pt 2):1775-87

Calreticulin modulates cell adhesiveness via regulation of vinculin expression. Opas M, et al. **J Cell Biol** 1996 Dec; 135(6 Pt 2):1913-23

Regulation of calreticulin gene expression by calcium. Waser M, et al. **J Cell Biol** 1997 Aug 11;138(3):547-57

Effect of cell density and growth factors on matrix GLA protein expression by normal rat kidney cells. Cancela ML, et al. **J Cell Physiol** 1997 May;171(2):125-34

A novel calcium-binding protein in amniotic fluid, CAAF1: its molecular cloning and tissue distribution. Hitomi J, et al. **J Cell Sci** 1996 Apr;109 (Pt 4):805-15

Neuronal thread protein gene modulation with cerebral infarction. de la Monte SM, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):623-35

Reduced expression of the serpentine calcium receptor [letter; comment] Parfitt AM. **J Clin Endocrinol Metab** 1996 Aug; 81(8):3130-1. Comment on: J Clin Endocrinol Metab 1996 Apr;81(4):1598-606.

Dissociation of apoptosis and activation of IL-1beta-converting enzyme/Ced-3 proteases by ALG-2 and the truncated Alzheimer's gene ALG-3. Lacanà E, et al. **J Immunol** 1997 Jun 1;158(11):5129-35

Differential interaction of nuclear factors with the leukocyte-specific pp52 promoter in B and T cells. Omori SA, et al. **J Immunol** 1997 Aug 15;159(4):1800-8

Hydrocephalus and Hirschsprung's disease in a patient with a mutation of L1CAM. Okamoto N, et al. **J Med Genet** 1997 Aug;34(8):670-1

USF in the Lytechinus sea urchin embryo may act as a transcriptional repressor in non-aboral ectoderm cells for the cell lineage-specific expression of the LpS1 genes. Seid CA, et al. **J Mol Biol** 1996 Nov 22;264(1):7-19

Characterization of a human cardiac gene which encodes for a LIM domain protein and is developmentally expressed in myocardial development. Fung YW, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1203-10

Regenerating (reg) and insulin genes are expressed in prepancreatic mouse embryos. Perfetti R, et al. **J Mol Endocrinol** 1996 Aug;17(1):79-88

Enhancement of calcyclin gene RNA expression in squamous cell carcinoma of the oral mucosa, but not in benign lesions. Berta GN, et al. **J Oral Pathol Med** 1997 May;26(5):206-10

Human fibulin-1D: molecular cloning, expression and similarity with S1-5 protein, a new member of the fibulin gene family. Tran H, et al. **Matrix Biol** 1997 Mar; 15(7):479-93

Matrix Gla protein gene expression is elevated during postnatal development. Zhao J, et al. **Matrix Biol** 1996 Jul; 15(2):131-40

Gene regulation of senescence marker protein-30 (SMP30): coordinated up-regulation with tissue maturation and gradual down-regulation with aging. Fujita T, et al. **Mech Ageing Dev** 1996 Jun 25;87(3):219-29

Isolation and characterization of Leishmania donovani calreticulin gene and its conservation of the RNA binding activity. Joshi M, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):53-64

Immunolocalization and sequence of caltractin/centrin from the early branching eukaryote Giardia lamblia. Meng TC, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):103-8

Calcium-binding protein regucalcin mRNA expression in the kidney cortex is suppressed by saline ingestion in rats. Shinya N, et al. **Mol Cell Biochem** 1996 Sep 20; 162(2):139-44

The 5' end sequences and exon organization in rat regucalcin gene. Yamaguchi M, et al. **Mol Cell Biochem** 1996 Dec 20;165(2):145-50

A unique downregulation of h2-calponin gene expression in Down syndrome: a possible attenuation mechanism for fetal survival by methylation at the CpG island in the trisomic chromosome 21. Kuromitsu J, et al. **Mol Cell Biol** 1997 Feb;17(2):707-12

Changes in the ultrastructural localization of mRNA for a circadian regulated protein. Techel D, et al. **Mol Mar Biol Biotechnol** 1996 Dec;5(4):241-8

HLA-H and associated proteins in patients with hemochromatosis. Beutler E, et al. **Mol Med** 1997 Jun; 3(6):397-402

Two distinct forms of USF in the Lytechinus sea urchin embryo do not play a role in LpS1 gene inactivation upon disruption of the extracellular matrix. George JM, et al. **Mol Reprod Dev** 1996 Sep;45(1):1-9

Characterization of the rat hippocalcin gene: the 5' flanking region directs expression to the hippocampus. Grant AL, et al. **Neuroscience** 1996 Dec;75(4):1099-115

An extracellular matrix response element in the promoter of the LpS1 genes of the sea urchin Lytechinus pictus. Seid CA, et al. **Nucleic Acids Res** 1997 Aug 1; 25(15):3175-82

Metastasis of mammary carcinomas in GRS/A hybrid mice transgenic for the mts1 gene. Ambartsumian NS, et al. **Oncogene** 1996 Oct 17;13(8):1621-30

Expression of the calcium-binding protein S100A4 (p9Ka) in MMTV-neu transgenic mice induces metastasis of mammary tumours. Davies MP, et al. **Oncogene** 1996 Oct 17;13(8):1631-7

Analysis of islet regenerating (reg) gene polymorphisms in fibrocalculous pancreatic diabetes. Hawrami K, et al. **Pancreas** 1997 Mar;14(2):122-5

Absence of correlation between reg and insulin gene expression in pancreas during fetal development. Moriscot C, et al. **Pediatr Res** 1996 Feb;39(2):349-53

Cloning and characterization of the calreticulin gene from Ricinus communis L. Coughlan SJ, et al. **Plant Mol Biol** 1997 Aug;34(6):897-911

Identification of a novel negative retinoic acid responsive element in the promoter of the human matrix Gla protein gene. Kirfel J, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2227-32

Identification of a new mammalian centrin gene, more closely related to Saccharomyces cerevisiae CDC31 gene. Middendorp S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9141-6

Regulation of S100P expression by androgen. Averboukh L, et al. **Prostate** 1996 Dec;29(6):350-5

Functional cloning of genes involved in T-cell receptor-induced programmed cell death. D'Adamio L, et al. **Semin Immunol** 1997 Feb;9(1):17-23 (61 ref.)

IMMUNOLOGY

Multiple sclerosis: comparison of the human T-cell response to S100 beta and myelin basic protein reveals parallels to rat experimental autoimmune panencephalitis. Schmidt S, et al. **Brain** 1997 Aug;120 (Pt 8):1437-45

Heterogeneous distribution of neurocalcin-immunoreactive nerve terminals in the mouse adrenal medulla. Iino S, et al. **Cell Tissue Res** 1997 Sep;289(3):439-44

Regulation of calcium-binding protein immunoreactivity in GABA neurons of macaque primary visual cortex. Carder RK, et al. **Cereb Cortex** 1996 Mar-Apr;6(2):271-87

Immunoreactivities of m-calpain, calpastatin, nitric oxide synthase, myelin basic protein and dynamin II in baker's yeast, wheat germ and lobster tail muscle. Kuo WN, et al. **Cytobios** 1996;87(351):251-63

Complete congenital heart block is associated with increased autoantibody titers against calreticulin. Orth T, et al. **Eur J Clin Invest** 1996 Mar;26(3):205-15

Molecular cloning and immunological characterisation of Cyn d 7, a novel calcium-binding allergen from Bermuda grass pollen. Suphioglu C, et al. **FEBS Lett** 1997 Feb 3; 402(2-3):167-72

The monoclonal antibody Mac 387 recognizes three S100 proteins in human neutrophils. Guignard F, et al. **Immunol Cell Biol** 1996 Feb;74(1):105-7

Apoptotic retinal cell death induced by antirecoverin autoantibodies of cancer-associated retinopathy. Adamus G, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):283-91

Neurofilament and calcium-binding proteins in the human cingulate cortex. Nimchinsky EA, et al. **J Comp Neurol** 1997 Aug 11;384(4):597-620

Epitope recognition of recoverin in cancer associated retinopathy: evidence for calcium-dependent conformational epitopes. Adamus G, et al. **J Neurosci Res** 1996 Sep 15;45(6):863-72

Atypical antineutrophil cytoplasmic antibodies sera do not react with MRP8/14 neutrophil cytosolic proteins [letter] Ivanov GE, et al. **J Rheumatol** 1997 May;24(5):1019-20

A subpopulation of WIL-2 cell calreticulin molecules is associated with RO/SS-A ribonucleoprotein particles. Lieu TS, et al. **Lupus** 1997;6(1):40-7

Experimental, cancer-induced retinopathy. Thirkill CE. **Ocul Immunol Inflamm** 1997 Mar;5(1):55-65

Autoantibodies against the protease inhibitor calpastatin: a new risk factor for venous thrombosis? Schlosser U, et al. **Thromb Haemost** 1997 Jan;77(1):11-3

[Antigenic epitopes recognized by autoantibodies to calpastatin in patients with rheumatoid arthritis and their clinical significance] Yasuoka H, et al. **Ryumachi** 1997 Jun; 37(3):458-66 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Thermostable variants of subtilisin selected by temperature-gradient gel electrophoresis. Sättler A, et al. **Electrophoresis** 1996 Apr;17(4):784-92

Identification of the mouse calcium-binding proteins, MRP 8 and MRP 14, in Schistosoma mansoni-induced granulomas: biochemical and functional characterization. Yang TH, et al. **J Leukoc Biol** 1997 Mar;61(3):258-66

Characterization of EhCaBP, a calcium-binding protein of Entamoeba histolytica and its binding proteins. Yadava N, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):69-82

Localization of guanylate cyclase-activating protein 2 in mammalian retinas. Otto-Bruc A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4727-32

Purification of porcine phospholamban expressed in Escherichia coli. Yao Q, et al. **Protein Expr Purif** 1996 Dec;8(4):463-8

METABOLISM

Ontogeny of the extracellular calcium-sensing receptor in rat kidney. Chattopadhyay N, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F736-43

Coordinate regulation of SR Ca(2+)-ATPase and phospholamban expression in developing murine heart. Harrer JM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H57-66

Rate-dependent abbreviation of Ca2+ transient in rat heart is independent of phospholamban phosphorylation. Hussain M, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H695-706

Effects of acidosis on phosphorylation of phospholamban and troponin I in rat cardiac muscle. Mundiña-Weilenmann C, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C107-14

Phosphorylation of calponin in airway smooth muscle. Pohl J, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L115-23

Calcium-and phorbol ester-dependent calponin phosphorylation in homogenates of swine carotid artery. Rokolya A, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H776-83

Localization and regulation by vitamin D of calcium transport proteins in rabbit cortical collecting system. Van Baal J, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F985-93

Expression of PTHrP, PTH/PTHrP receptor, and Ca(2+)-sensing receptor mRNAs along the rat nephron. Yang T, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F751-8

Regulation of extracellular calcium sensing in rat osteoclasts by femtomolar calcitonin concentrations. Zaidi M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F637-44

Immunolocalization of peptide 19 and other calcium-binding proteins in the guinea pig cochlea. Imamura S, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):407-18

Stress relief protein modulation by calnexin. Vinayagamoorthy T, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:479-84

Site-specific phosphorylation of a phospholamban peptide by cyclic nucleotide- and Ca2+/calmodulin-dependent protein kinases of cardiac sarcoplasmic reticulum. Karczewski P, et al. **Basic Res Cardiol** 1997;92 Suppl 1:37-43

The relative phospholamban and SERCA2 ratio: a critical determinant of myocardial contractility. Koss KL, et al. **Basic Res Cardiol** 1997;92 Suppl 1:17-24

Effects of zinc on phospholamban phosphorylation. Baltas LG, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):394-7

Expression of extracellular calcium-sensing receptor by human lens epithelial cells. Chattopadhyay N, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):801-5

Characterization of a new calcium-binding protein abundant in amniotic fluid, CAAF2, which is produced by fetal epidermal keratinocytes during embryogenesis. Hitomi J, et al. **Biochem Biophys Res Commun** 1996 Nov 21; 228(3):757-63

ERC-55, a binding protein for the papilloma virus E6 oncoprotein, specifically interacts with vitamin D receptor among nuclear receptors. Imai T, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):765-9

Geranylgeraniol causes a decrease in levels of calreticulin and tyrosine phosphorylation of a 36-kDa protein prior to the appearance of apoptotic features in HL-60 cells. Nakajo S, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):741-5

Characterization of the Ca2+-binding properties of calgizzarin (S100C) isolated from chicken gizzard smooth muscle. Allen BG, et al. **Biochem Cell Biol** 1996; 74(5):687-94

p30, a novel protein target of mouse calcyclin (S100A6). Filipek A, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):585-7

Release of calreticulin from neutrophils may alter C1q-mediated immune functions. Kishore U, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):543-50

Structural requirements for annexin I-S100C complex-formation. Seemann J, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):123-9

Correlation between calponin and myosin subfragment 1 binding to F-actin and ATPase inhibition. Szymanski PT, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):519-23

Protein interactions between S100A4 (p9Ka) and other cellular proteins identified using in vitro methods. Flynn AM, et al. **Biochem Soc Trans** 1996 Aug;24(3):341S

Characterization of lanthanide ion binding to the EF-hand protein S100 beta by luminescence spectroscopy. Chaudhuri D, et al. **Biochemistry** 1997 Aug 12;

36(32):9674–80
Optimizing the metal binding parameters of an EF-hand-like calcium chelation loop: coordinating side chains play a more important tuning role than chelation loop flexibility. Drake SK, et al. **Biochemistry** 1997 Aug 12;36(32):9917–26
Thermodynamics of metal ion binding and denaturation of a calcium binding protein from Entamoeba histolytica. Gopal B, et al. **Biochemistry** 1997 Sep 9;36(36):10910–6
Cardiac high molecular weight calmodulin binding protein contains calpastatin activity. Kakkar R, et al. **Biochemistry** 1997 Sep 30;36(39):11550–5
Calcium-dependent binding of recoverin to membranes monitored by surface plasmon resonance spectroscopy in real time. Lange C, et al. **Biochemistry** 1997 Oct 7; 36(40):12019–26
Regulation of the mitochondrial Ca2+ uniporter by external adenine nucleotides: the uniporter behaves like a gated channel which is regulated by nucleotides and divalent cations. Litsky ML, et al. **Biochemistry** 1997 Jun 10; 36(23):7071–80
Ca2+-calmodulin binding to mouse alpha1 syntrophin: syntrophin is also a Ca2+-binding protein. Newbell BJ, et al. **Biochemistry** 1997 Feb 11;36(6):1295–305
Phospholamban-dependent effects of C12E8 on calcium transport and molecular dynamics in cardiac sarcoplasmic reticulum. Shi Y, et al. **Biochemistry** 1996 Oct 15; 35(41):13393–9
Domain-specific stabilization of photoreceptor membrane guanylyl cyclase by adenine nucleotides and guanylyl cyclase activating proteins (GCAPs). Tucker CL, et al. **Biochemistry** 1997 Sep 30;36(39):11995–2000
Calcium-binding characteristics and conformational changes in metastasin, a member of S-100 protein family. Dukhanina EA, et al. **Biochemistry (Mosc)** 1997 May;62(5):530–6
Cleavage of caldesmon and calponin by calpain: substrate recognition is not dependent on calmodulin binding domains. Croall DE, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):276–84
Expression of a photoreceptor protein, recoverin, as a cancer-associated retinopathy autoantigen in human lung cancer cell lines. Matsubara S, et al. **Br J Cancer** 1996 Nov; 74(9):1419–22
Calcium-binding proteins in the periglomerular region of typical and typical olfactory glomeruli. Crespo C, et al. **Brain Res** 1997 Jan 16;745(1–2):293–302
Synaptophysin immunoreactivity and distributions of calcium-binding proteins highlight the functional organization of the rat's dorsal column nuclei. Crockett DP, et al. **Brain Res** 1996 Jan 22;707(1):31–46
Changes of neurocalcin, a calcium-binding protein, in the brain of patients with Alzheimer's disease. Shimohama S, et al. **Brain Res** 1996 Apr 15;716(1–2):233–6
Calretinin in neurochemically well-defined cell populations of rabbit retina. Völgyi B, et al. **Brain Res** 1997 Jul 18; 763(1):79–86
The effects of peripheral nerve injury of the masseteric nerve on the levels of calcium binding proteins and neuropeptide Y, and their correlation in the mesencephalic trigeminal nucleus of the rat. Wakisaka S, et al. **Brain Res** 1996 Oct 7;735(2):249–56
Accumulation of S100 beta mRNA and protein in cerebellum during infancy in Down syndrome and control subjects. Marks A, et al. **Brain Res Mol Brain Res** 1996 Mar; 36(2):343–8
The Ca2+ binding protein, frequenin is a nervous system-specific protein in mouse preferentially localized in neurites. Olafsson P, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):73–82
Differential expression of psoriasin messenger RNA between in situ and invasive human breast carcinoma [published erratum appears in Cancer Res 1997 Feb 15;57(4):793] Leygue E, et al. **Cancer Res** 1996 Oct 15;56(20):4606–9
The localization of the HRX/ALL1 protein to specific nuclear subdomains is altered by fusion with its eps15 translocation partner. Rogaia D, et al. **Cancer Res** 1997 Mar 1;57(5):799–802
Thyroid hormones increase the contractility but suppress the effects of beta-adrenergic agonist by decreasing phospholamban expression in rat atria. Kaasik A, et al. **Cardiovasc Res** 1997 Jul;35(1):106–12
Calreticulin. Krause KH, et al. **Cell** 1997 Feb 21;88(4):439–43 (25 ref.)
Conformation-independent binding of monoglucosylated ribonuclease B to calnexin. Zapun A, et al. **Cell** 1997 Jan 10;88(1):29–38
Extra-lysosomal proteolysis and expression of calpains and calpastatin in cultured thyroid cells. Karlsson JO, et al. **Cell Biol Int** 1997 Mar;21(3):167–74
Protease inhibitors in mouse skeletal muscle: tissue-associated components of serum inhibitors and calpastatin. Fumagalli L, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun; 42(4):535–46
Differential expression of the EF-hand calcium-binding protein calsensin in the central nervous system of hirudinid leeches. Veldman M, et al. **Cell Tissue Res** 1996 Dec; 286(3):357–64
The covalent binding of [14C]acetaminophen to mouse hepatic microsomal proteins: the specific binding to calreticulin and the two forms of the thiol:protein disulfide oxidoreductases. Zhou L, et al. **Chem Res Toxicol** 1996 Oct-Nov;9(7):1176–82
Effects of thyroid hormone on left ventricular performance and regulation of contractile and Ca(2+)-cycling proteins in the baboon. Implications for the force-frequency and relaxation-frequency relationships. Khoury SF, et al. **Circ Res** 1996 Oct;79(4):727–35
Calnexin, calreticulin, and Bip/Kar2p in protein folding. Hebert DN, et al. **Cold Spring Harb Symp Quant Biol** 1995; 60:405–15 (70 ref.)
Characterization of chicken gizzard calcyclin and examination of its interaction with caldesmon. Filipek A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr;113(4):745–52
Fibulin-1 and fibulin-2 expression during organogenesis in the developing mouse embryo. Zhang HY, et al. **Dev Dyn** 1996 Mar;205(3):348–64
Sequence of a human cDNA encoding Cab45, a Ca2+-binding protein with six EF-hand motifs. Koivu T, et al. **DNA Seq** 1997;7(3–4):217–20
Expression and divalent cation binding properties of the novel chemotactic inflammatory protein psoriasin. Vorum H, et al. **Electrophoresis** 1996 Nov;17(11):1787–96
N-linked oligosaccharides are necessary and sufficient for association of glycosylated forms of bovine RNase with calnexin and calreticulin. Rodan AR, et al. **EMBO J** 1996 Dec 16;15(24):6921–30
N-linked glycosylation of the human Ca2+ receptor is essential for its expression at the cell surface. Fan G, et al. **Endocrinology** 1997 May;138(5):1916–22
Mechanism of action of sarcoplasmic reticulum calcium-uptake activators--discrimination between sarco(endo)plasmic reticulum Ca2+ ATPase and phospholamban interaction. Berrebi-Bertrand I, et al. **Eur J Biochem** 1997 Aug 1;247(3):801–9
Chimeras of parvalbumin and oncomodulin involving exchange of the complete CD site show that the Ca2+/Mg2+ specificity is an intrinsic property of the site. Durussel I, et al. **Eur J Biochem** 1996 Dec 1;242(2):256–63
Phosphorylation of myeloid-related proteins MRP-14 and MRP-8 during human neutrophil activation. Guignard F, et al. **Eur J Biochem** 1996 Oct 1;241(1):265–71
Different susceptibilities of fibulin-1 and fibulin-2 to cleavage by matrix metalloproteinases and other tissue proteases. Sasaki T, et al. **Eur J Biochem** 1996 Sep 1;240(2):427–34
The calcium-binding protein VILIP in olfactory neurons: regulation of second messenger signaling. Boekhoff I, et al. **Eur J Cell Biol** 1997 Feb;72(2):151–8
Immunocytochemical electron microscopic study and Western blot analysis of caldesmon and calponin in striated muscle of the fruit fly Drosophila melanogaster and in several muscle cell types of the earthworm Eisenia foetida. Royuela M, et al. **Eur J Cell Biol** 1997 Jan;72(1):90–4
The calpain-calpastatin system and cellular proliferation and differentiation in rodent osteoblastic cells. Murray SS, et al. **Exp Cell Res** 1997 Jun 15;233(2):297–309
Modulation of the retinoic acid and retinoid X receptor signaling pathways in P19 embryonal carcinoma cells by calreticulin. Shago M, et al. **Exp Cell Res** 1997 Jan 10; 230(1):50–60
Calnexin can interact with N-linked glycans located close to the endoplasmic reticulum membrane. Andersson H, et al. **FEBS Lett** 1996 Nov 18;397(2–3):321–4
Spectral studies on the calcium-binding properties of Mts1 protein and its interaction with target protein. Dukhanina EA, et al. **FEBS Lett** 1997 Jun 30;410(2–3):403–6
Phosphorylation of a 72-kDa protein in PDGF-stimulated cells which forms complex with c-Crk, c-Fyn and Eps15. Hansen K, et al. **FEBS Lett** 1997 Jun 9;409(2):195–200
The heterodimer of the Ca2+-binding proteins MRP8 and MRP14 binds to arachidonic acid. Klempt M, et al. **FEBS Lett** 1997 May 12;408(1):81–4
Nuclear localisation of calreticulin in vivo is enhanced by its interaction with glucocorticoid receptors. Roderick HL, et al. **FEBS Lett** 1997 Mar 24;405(2):181–5
Modulation of rat brain calpastatin efficiency by post-translational modifications. Salamino F, et al. **FEBS Lett** 1997 Aug 4;412(3):433–8
Localisation of the C1q binding site within C1q receptor/calreticulin. Stuart GR, et al. **FEBS Lett** 1996 Nov 18;397(2–3):245–9
Calcium- and pH-linked oligomerization of sorcin causing translocation from cytosol to membranes. Zamparelli C, et al. **FEBS Lett** 1997 Jun 2;409(1):1–6
Binding specificity and in vivo targets of the EH domain, a novel protein-protein interaction module. Salcini AE, et al. **Genes Dev** 1997 Sep 1;11(17):2239–49
Intracellular distributions and putative functions of calcium-binding proteins in the bullfrog vestibular otolith organs. Baird RA, et al. **Hear Res** 1997 Jan;103(1–2):85–100
Oncomodulin is abundant in the organ of Corti. Henzl MT, et al. **Hear Res** 1997 Apr;106(1–2):105–11
Calcium-binding proteins in organ of Corti and basilar papilla: CBP-15, an unidentified calcium-binding protein of the inner ear. Senarita M, et al. **Hear Res** 1995 Oct; 90(1–2):169–75
Differences between guinea pig and rat in the dorsal cochlear nucleus: expression of calcium-binding proteins by cartwheel and Purkinje-like cells. Spatz WB. **Hear Res** 1997 May;107(1–2):136–46
Epithelial hyperplasia of usual type expresses both S100-alpha and S100-beta in a heterogeneous pattern but ductal carcinoma in situ can express only S100-alpha in a monotonous pattern. Ichihara S, et al. **Histopathology** 1997 Jun;30(6):533–41
Importance of combined treatment with IL-10 and IL-4, but not IL-13, for inhibition of monocyte release of the Ca(2+)-binding protein MRP8/14. Lügering N, et al. **Immunology** 1997 May;91(1):130–4
Changes in the postnatal expression of calcium binding proteins in neurons of the superior colliculus after neonatal enucleation. Gerrikagoitia I, et al. **Int J Dev Biol** 1996; Suppl 1:167S–168S
Calponin distribution in human ciliary muscle and other anterior segment tissues. Kashiwagi K, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):349–56
Phosphorylation of CaBP1 and CaBP2 by protein kinase CK2. Janson IM, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):112–7
Calcium-dependent phospholipid binding to the C2A domain of a ubiquitous form of double C2 protein (Doc2 beta). Kojima T, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):671–6
Ca2+ signaling and intracellular Ca2+ binding proteins. Niki I, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):685–98 (221 ref.)
Identification of the Ca(2+)-binding domains in reticulocalbin, an endoplasmic reticulum resident Ca(2+)-binding protein with multiple EF-hand motifs. Tachikui H, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):145–9
Novel Ca2+-binding protein (CAPS) related to UNC-31 required for Ca2+-activated exocytosis. Ann K, et al. **J Biol Chem** 1997 Aug 8;272(32):19637–40
Functional Co-expression of the canine cardiac Ca2+ pump and phospholamban in Spodoptera frugiperda (Sf21) cells reveals new insights on ATPase regulation. Autry JM, et al. **J Biol Chem** 1997 Jun 20;272(25):15872–80
Pancreatic stone protein (lithostathine), a physiologically relevant pancreatic calcium carbonate crystal inhibitor? Bimmler D, et al. **J Biol Chem** 1997 Jan 31;272(5):3073–82
Calcium-dependent binding of sorcin to the N-terminal domain of synexin (annexin VII). Brownawell AM, et al. **J Biol Chem** 1997 Aug 29;272(35):22182–90
Neuronal pentraxin receptor, a novel putative integral membrane pentraxin that interacts with neuronal pentraxin 1 and 2 and taipoxin-associated calcium-binding protein 49. Dodds DC, et al. **J Biol Chem** 1997 Aug 22; 272(34):21488–94
Pancreatic lithostathine as a calcite habit modifier. Geider S, et al. **J Biol Chem** 1996 Oct 18;271(42):26302–6
Binding of centrins and yeast calmodulin to synthetic peptides corresponding to binding sites in the spindle pole body components Kar1p and Spc110p. Geier BM, et al. **J Biol Chem** 1996 Nov 8;271(45):28366–74
Subcellular localization and ubiquitin-conjugating enzyme (E2) interactions of mammalian HECT family ubiquitin protein ligases. Hatakeyama S, et al. **J Biol Chem** 1997 Jun 13;272(24):15085–92
LSP1 is the major substrate for mitogen-activated protein kinase-activated protein kinase 2 in human neutrophils. Huang CK, et al. **J Biol Chem** 1997 Jan 3;272(1):17–9
Involvement of the chaperone protein calnexin and the acetylcholine receptor beta-subunit in the assembly and cell surface expression of the receptor. Keller SH, et al. **J Biol Chem** 1996 Sep 13;271(37):22871–7
Endoplasmic reticulum chaperones GRP78 and calreticulin prevent oxidative stress, Ca2+ disturbances, and cell death in renal epithelial cells. Liu H, et al. **J Biol Chem** 1997 Aug 29;272(35):21751–9
Intracellular disposal of incompletely folded human alpha1-antitrypsin involves release from calnexin and post-translational trimming of asparagine-linked oligosaccharides. Liu Y, et al. **J Biol Chem** 1997 Mar 21; 272(12):7946–51
Association of calponin with desmin intermediate filaments. Mabuchi K, et al. **J Biol Chem** 1997 Sep 5;272(36):22662–6
Dissociation of phospholamban regulation of cardiac sarcoplasmic reticulum Ca2+ATPase by quercetin. McKenna E, et al. **J Biol Chem** 1996 Oct 4; 271(40):24517–25
Calponin and mitogen-activated protein kinase signaling in differentiated vascular smooth muscle. Menice CB, et al. **J Biol Chem** 1997 Oct 3;272(40):25157–61
Endoplasmic reticulum form of calreticulin modulates glucocorticoid-sensitive gene expression. Michalak M, et al. **J Biol Chem** 1996 Nov 15;271(46):29436–45
Immunodetection of phosphorylation sites gives new insights into the mechanisms underlying phospholamban phosphorylation in the intact heart. Mundiña-Weilenmann C, et al. **J Biol Chem** 1996 Dec 27;271(52):33561–7
Identification of S100b protein as copper-binding protein and its suppression of copper-induced cell damage. Nishikawa T, et al. **J Biol Chem** 1997 Sep 12;272(37):23037–41
Calcium binding, but not a calcium-myristoyl switch, controls the ability of guanylyl cyclase-activating protein GCAP-2 to regulate photoreceptor guanylyl cyclase. Olshevskaya EV, et al. **J Biol Chem** 1997 May 30; 272(22):14327–33
Interaction of MAD2 with the carboxyl terminus of the insulin receptor but not with the IGFIR. Evidence for release from the insulin receptor after activation. O'Neill TJ, et al. **J Biol Chem** 1997 Apr 11;272(15):10035–40
Phosphorylation of the IQ domain regulates the interaction between Ca2+-vector protein and its target in Amphioxus. Petrova TV, et al. **J Biol Chem** 1996 Oct 25; 271(43):26646–52
A heterocomplex formed by the calcium-binding proteins MRP8 (S100A8) and MRP14 (S100A9) binds unsaturated

fatty acids with high affinity. Siegenthaler G, et al. **J Biol Chem** 1997 Apr 4;272(14):9371-7

Sites of interaction between kinase-related protein and smooth muscle myosin. Silver DL, et al. **J Biol Chem** 1997 Oct 3;272(40):25353-9

High density distribution of endoplasmic reticulum proteins and mitochondria at specialized Ca2+ release sites in oligodendrocyte processes. Simpson PB, et al. **J Biol Chem** 1997 Sep 5;272(36):22654-61

Ectopic expression of phospholamban in fast-twitch skeletal muscle alters sarcoplasmic reticulum Ca2+ transport and muscle relaxation. Slack JP, et al. **J Biol Chem** 1997 Jul 25;272(30):18862-8

A lymphocyte-specific Ltk tyrosine kinase isoform is retained in the endoplasmic reticulum in association with calnexin. Snijders AJ, et al. **J Biol Chem** 1997 Jan 10;272(2):1297-301

The high affinity calcium-binding sites in the epidermal growth factor module region of vitamin K-dependent protein S. Stenberg Y, et al. **J Biol Chem** 1997 Sep 12; 272(37):23255-60

Localization of protein regions involved in the interaction between calponin and myosin. Szymanski PT, et al. **J Biol Chem** 1997 Apr 25;272(17):11142-6

Eps15 is a component of clathrin-coated pits and vesicles and is located at the rim of coated pits. Tebar F, et al. **J Biol Chem** 1996 Nov 15;271(46):28727-30

Eps15 is constitutively oligomerized due to homophilic interaction of its coiled-coil region. Tebar F, et al. **J Biol Chem** 1997 Jun 13;272(24):15413-8

The self-association and fibronectin-binding sites of fibulin-1 map to calcium-binding epidermal growth factor-like domains. Tran H, et al. **J Biol Chem** 1997 Sep 5; 272(36):22600-6

Fibulin-2 binds to the short arms of laminin-5 and laminin-1 via conserved amino acid sequences. Utani A, et al. **J Biol Chem** 1997 Jan 31;272(5):2814-20

Reglucosylation of N-linked glycans is critical for calnexin assembly with T cell receptor (TCR) alpha proteins but not TCRbeta proteins. Van Leeuwen JE, et al. **J Biol Chem** 1997 Feb 14;272(7):4179-86

The related molecular chaperones calnexin and calreticulin differentially associate with nascent T cell antigen receptor proteins within the endoplasmic reticulum. Van Leeuwen JEM, et al. **J Biol Chem** 1996 Oct 11;271(41):25345-9

Interaction and regulation of the Caenorhabditis elegans death protease CED-3 by CED-4 and CED-9. Wu D, et al. **J Biol Chem** 1997 Aug 22;272(34):21449-54

P11, a unique member of the S100 family of calcium-binding proteins, interacts with and inhibits the activity of the 85-kDa cytosolic phospholipase A2. Wu T, et al. **J Biol Chem** 1997 Jul 4;272(27):17145-53

Identification of specific calcium-binding noncollagenous proteins associated with glutaraldehyde-preserved bovine pericardium in the rat subdermal model. Gura TA, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):483-95

Intracellular distribution of heat-induced stress glycoproteins. Jethmalani SM, et al. **J Cell Biochem** 1997 Jul 1;66(1):98-111

The cell adhesion molecule DdCAD-1 in Dictyostelium is targeted to the cell surface by a nonclassical transport pathway involving contractile vacuoles. Sesaki H, et al. **J Cell Biol** 1997 Aug 25;138(4):939-51

Interactions between newly synthesized glycoproteins, calnexin and a network of resident chaperones in the endoplasmic reticulum. Tatu U, et al. **J Cell Biol** 1997 Feb 10;136(3):555-65

Identification of a Ca(2+)-binding light chain within Chlamydomonas outer arm dynein. King SM, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3757-64

Expression of fibulin-2 by fibroblasts and deposition with fibronectin into a fibrillar matrix. Sasaki T, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2895-904

Reduced expression of the serpentine calcium receptor [letter; comment] Parfitt AM. **J Clin Endocrinol Metab** 1996 Aug; 81(8):3130-1. Comment on: J Clin Endocrinol Metab 1996 Apr;81(4):1598-606.

Disorders of calcium ion sensing. Pearce SH, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2030-5 (50 ref.)

Neurochemical development of the hippocampal region in the fetal rhesus monkey, III: calbindin-D28K, calretinin and parvalbumin with special mention of cajal-retzius cells and the retrosplenial cortex. Berger B, et al. **J Comp Neurol** 1996 Mar 18;366(4):674-99

Temporary sensory deprivation changes calcium-binding proteins levels in the auditory brainstem. Caicedo A, et al. **J Comp Neurol** 1997 Feb 3;378(1):1-15

Use of calcium-binding proteins to map inputs in vestibular nuclei of the gerbil. Kevetter GA, et al. **J Comp Neurol** 1997 Sep 22;386(2):317-27

The presence of h2-calponin in human keratinocyte. Fukui Y, et al. **J Dermatol Sci** 1997 Jan;14(1):29-36

Molecular tuning of an EF-hand-like calcium binding loop. Contributions of the coordinating side chain at loop position 3. Drake SK, et al. **J Gen Physiol** 1997 Aug; 110(2):173-84

Calretinin immunoreactivity in the monkey and cat cerebellum: cellular localisation and modular distribution. Yan XX, et al. **J Hirnforsch** 1996;37(3):409-19

Prominence of beta 2-microglobulin, class I heavy chain conformation, and tapasin in the interactions of class I heavy chain with calreticulin and the transporter associated with antigen processing. Solheim JC, et al. **J Immunol** 1997 Mar 1;158(5):2236-41

Activation of creatine kinase-B and phospholamban gene expression in transformed latissimus dorsi muscle: evaluation of mRNA by polymerase chain reaction. Alam M, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1901-10

Sarcolemmal calcium transporters in myocardial ischemia. Bersohn MM, et al. **J Mol Cell Cardiol** 1997 Sep; 29(9):2525-32

The presence and partitioning of calcium binding proteins in hepatic and cardiac nuclei [published erratum appears in J Mol Cell Cardiol 1996 Aug;28(8):1832] Czubryt MP, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):455-65

Biochemical regulation of sarcoplasmic reticulum Cl-channel from human atrial myocytes: involvement of phospholamban. Decrouy A, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):767-80

Alterations of expression and distribution of the Ca(2+)-storing proteins in endo/sarcoplasmic reticulum during differentiation of rat cardiomyocytes. Imanaka-Yoshida K, et al. **J Mol Cell Cardiol** 1996 Mar; 28(3):553-62

Ontogeny of sarcoplasmic reticulum protein phosphorylation by Ca2+--calmodulin-dependent protein kinase. Xu A, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):405-18

Calpains and calpastatin in SH-SY5Y neuroblastoma cells during retinoic acid-induced differentiation and neurite outgrowth: comparison with the human brain calpain system. Grynspan F, et al. **J Neurosci Res** 1997 May 1; 48(3):181-91

Impaired contractile response to beta adrenoceptor stimulation in diabetic rat hearts: alterations in beta adrenoceptors-G protein-adenylate cyclase system and phospholamban phosphorylation. Gando S, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):475-84

Mechanism of extracellular Ca2+ receptor-stimulated hormone release from sheep thyroid parafollicular cells. McGehee DS, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):31-44

Identification of neuronal calcium sensor (NCS-1) possibly involved in the regulation of receptor phosphorylation. Nef S, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1-4):365-78

Two proline residues are essential in the calcium-binding activity of rotavirus VP7 outer capsid protein. Gajardo R, et al. **J Virol** 1997 Mar;71(3):2211-6

Formation of intracellular particles by hepatitis B virus large surface protein. Xu Z, et al. **J Virol** 1997 Jul;71(7):5487-94

Depressed expression of calcium receptor in parathyroid gland tissue of patients with hyperparathyroidism. Gogusev J, et al. **Kidney Int** 1997 Jan;51(1):328-36

Structural and functional aspects of calcium binding in extracellular matrix proteins. Maurer P, et al. **Matrix Biol** 1997 Mar;15(8-9):569-80; discussion 581 (93 ref.)

Intracellular distribution and characteristics of Ca(2+)-transporting systems in cells of ciliate protozoan Tetrahymena pyriformis. Yurkov IS, et al. **Membr Cell Biol** 1997;10(5):565-72

Hepatic calcium-binding protein regucalcin concentration is decreased by streptozotocin-diabetic state and ethanol ingestion in rats. Isogai M, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):67-72

Potential sensitivity of hepatic specific protein regucalcin as a marker of chronic liver injury. Yamaguchi M, et al. **Mol Cell Biochem** 1997 Feb;167(1-2):187-90

Role of CED-4 in the activation of CED-3 [letter] [see comments] Chinnaiyan AM, et al. **Nature** 1997 Aug 21; 388(6644):728-9. Comment in: Nature 1997 Aug 21;388(6644):714-5.

Double identity for proteins of the Bcl-2 family. Reed JC. **Nature** 1997 Jun 19;387(6635):773-6 (40 ref.)

Interaction between the C. elegans cell-death regulators CED-9 and CED-4. Spector MS, et al. **Nature** 1997 Feb 13;385(6617):653-6

Age-related loss of calcium binding proteins in rabbit hippocampus. de Jong GI, et al. **Neurobiol Aging** 1996 May-Jun;17(3):459-65

Low mobility of the Ca2+ buffers in axons of cultured Aplysia neurons. Gabso M, et al. **Neuron** 1997 Mar; 18(3):473-81

Calbindin-D28K in the nucleus of nerve growth factor-treated PC12 cells. McMahon A, et al. **Neuroreport** 1996 Nov 4;7(15-17):2419-22

Development of GABA and calcium binding proteins immunoreactivity in the rat hippocampus following neonatal anoxia. Dell'Anna E, et al. **Neurosci Lett** 1996 Jun 21;211(2):93-6

Calcium- and myristoyl-dependent subcellular localization of the neuronal calcium-binding protein VILIP in transfected PC12 cells. Spilker C, et al. **Neurosci Lett** 1997 Apr 4;225(2):126-8

Calcium-binding proteins in primate basal ganglia. Parent A, et al. **Neurosci Res** 1996 Aug;25(4):309-34 (156 ref.)

The expression pattern of somatostatin and calretinin by postnatal hippocampal interneurons is regulated by activity-dependent and -independent determinants. Marty S, et al. **Neuroscience** 1997 Sep;80(1):79-88

Compartmentalization of calbindin and parvalbumin in different parts of rat rubrospinal neurons. Wang YJ, et al. **Neuroscience** 1996 Sep;74(2):427-34

Immunohistochemical localization of neuronal and glial calcium-binding proteins in hippocampus of chronically low level lead exposed rhesus monkeys. Noack S, et al. **Neurotoxicology** 1996 Fall-Winter;17(3-4):679-84

Expression of antisense RNA to S100A4 gene encoding an S100-related calcium-binding protein suppresses metastatic potential of high-metastatic Lewis lung carcinoma cells. Takenaga K, et al. **Oncogene** 1997 Jan 23;14(3):331-7

The parathyroid calcium receptor: a novel therapeutic target for treating hyperparathyroidism. Nemeth EF, et al. **Pediatr Nephrol** 1996 Jun;10(3):275-9 (30 ref.)

Developmental expression of calcitriol receptors, 9-kilodalton calcium-binding protein, and calcidiol 24-hydroxylase in human intestine. Delvin EE, et al. **Pediatr Res** 1996 Nov;40(5):664-70

Correlations between MyoD, myogenin, SERCA1, SERCA2 and phospholamban transcripts during transformation of type-II to type-I skeletal muscle fibers. Hu P, et al. **Pflugers Arch** 1997 Jun;434(2):209-11

Acidosis alters the phosphorylation of Ser16 and Thr17 of phospholamban in rat cardiac muscle. Hulme JT, et al. **Pflugers Arch** 1997 Aug;434(4):475-83

Abundant accumulation of the calcium-binding molecular chaperone calreticulin in specific floral tissues of Arabidopsis thaliana. Nelson DE, et al. **Plant Physiol** 1997 May;114(1):29-37

The Schizosaccharomyces pombe spindle checkpoint protein mad2p blocks anaphase and genetically interacts with the anaphase-promoting complex. He X, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7965-70

Calexcitin: a signaling protein that binds calcium and GTP, inhibits potassium channels, and enhances membrane excitability. Nelson TJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13808-13

Deglucosylation of N-linked glycans is an important step in the dissociation of calreticulin-class I-TAP complexes. van Leeuwen JE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13997-4001

Calcium-sensing receptors and associated pathological conditions [editorial] Drüeke TB. **Rev Rhum Engl Ed** 1996 May;63(5):305-8 (28 ref.)

Interaction of CED-4 with CED-3 and CED-9: a molecular framework for cell death [see comments] Chinnaiyan AM, et al. **Science** 1997 Feb 21;275(5303):1122-6. Comment in: Science 1997 Feb 21;275(5303):1081-2.

Ca2+-dependent protein kinases and stress signal transduction in plants. Sheen J. **Science** 1996 Dec 13; 274(5294):1900-2

Interaction and regulation of subcellular localization of CED-4 by CED-9 [see comments] Wu D, et al. **Science** 1997 Feb 21;275(5303):1126-9. Comment in: Science 1997 Feb 21;275(5303):1081-2.

Calnexin associates with the precursors of glycoproteins B, C, and D of herpes simplex virus type 1. Yamashita Y, et al. **Virology** 1996 Nov 1;225(1):216-22

[Study of calcium-binding properties of the Mts-1 protein and its recombinant analog using the fluorescent probe Fura-2] Dukhanina EA, et al. **Biokhimiia** 1996 May; 61(5):919-26 (Eng. Abstr.) **(Rus)**

[Preparation of the myristoylated and nonmyristoylated form of recombinant recoverin in E. coli cells and comparison of their functional activity] Zargarov AA, et al. **Bioorg Khim** 1996 Jul;22(7):483-8 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effects of calponin on force generation by single smooth muscle cells. Horowitz A, et al. **Am J Physiol** 1996 May; 270(5 Pt 2):H1858-63

Effects of calponin on isometric force and shortening velocity in permeabilized taenia coli smooth muscle. Obara K, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C481-7

Expression of PrP mRNA is regulated by a fragment of MRP8 in human fibroblasts. Kniazeva M, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):59-63

Modulation of the calpain autoproteolysis by calpastatin and phospholipids. Melloni E, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):193-7

An investigation of the mechanism of inhibition of the Ca(2+)-ATPase by phospholamban. Hughes G, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):973-9

Recoverin inhibits the phosphorylation of dark-adapted rhodopsin more than it does that of bleached rhodopsin: a possible mechanism through which rhodopsin kinase is prevented from participation in a side reaction. Senin II, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):551-5

Inhibition by calponin of isometric force in demembranated vascular smooth muscle strips: the critical role of serine-175. Uyama Y, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):551-8

Non-specific inhibition of protein kinases by S100B12 and S100A1B1. Brant S, et al. **Biochem Soc Trans** 1997 Feb; 25(1):74S

Modulation of actin conformation and inhibition of actin filament velocity by calponin. Borovikov YuS, et al. **Biochemistry** 1996 Oct 29;35(43):13849-57

S100 beta induces apoptotic cell death in cultured astrocytes via a nitric oxide-dependent pathway. Hu J, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):239-45

Fibulin-1 mediates platelet adhesion via a bridge of fibrinogen. Godyna S, et al. **Blood** 1996 Oct 1;88(7):2569-77

S-100beta stimulates neurite outgrowth in the rat sciatic nerve grafted with acellular muscle transplants. Haglid KG, et al. **Brain Res** 1997 Apr 11;753(2):196-201

The systemic lupus erythematosus (SLE) disease

autoantigen-calreticulin can inhibit C1q association with immune complexes. Kishore U, et al. **Clin Exp Immunol** 1997 May;108(2):181-90

Calponin inhibits actin-activated MgATPase of myosin subfragment 1 (S1) without displacing S1 from its binding site on actin. Kolakowski J, et al. **Eur J Biochem** 1997 Feb 1;243(3):624-9

Rhodopsin phosphorylation in bovine rod outer segments is more sensitive to the inhibitory action of recoverin at the low rhodopsin bleaching than it is at the high bleaching. Senin II, et al. **FEBS Lett** 1997 May 26;408(3):251-4

Comparison of the effects of phospholamban and jasmone on the calcium pump of cardiac sarcoplasmic reticulum. Evidence for modulation by phospholamban of both Ca2+ affinity and Vmax (Ca) of calcium transport. Antipenko AY, et al. **J Biol Chem** 1997 Jan 31;272(5):2852-60

The effects of smooth muscle calponin on the strong and weak myosin binding sites of F-actin. EL-Mezgueldi M, et al. **J Biol Chem** 1996 Nov 8;271(45):28161-7

Modulation of cardiac ryanodine receptors by sorcin. Lokuta AJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25333-8

Growth-inhibitory and apoptosis-inducing activities of calprotectin derived from inflammatory exudate cells on normal fibroblasts: regulation by metal ions. Yui S, et al. **J Leukoc Biol** 1997 Jan;61(1):50-7

Calreticulin inhibits glucocorticoid- but not cAMP-sensitive expression of tyrosine aminotransferase gene in cultured McA-RH7777 hepatocytes. Burns K, et al. **Mol Cell Biochem** 1997 Jun;171(1-2):37-43

Activatory effect of calcium-binding protein regucalcin on ATP-dependent calcium transport in the basolateral membranes of rat kidney cortex. Kurota H, et al. **Mol Cell Biochem** 1997 Apr;169(1-2):149-56

Stimulatory effect of regucalcin on ATP-dependent calcium transport in rat liver plasma membranes. Takahashi H, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):149-53

Activatory effect of regucalcin on hepatic plasma membrane (Ca(2+)-Mg2+)-ATPase is impaired by liver injury with carbon tetrachloride administration in rats. Takahashi H, et al. **Mol Cell Biochem** 1996 May 10;158(1):9-16

Up- and down-regulation of calpain inhibitor polypeptide, calpastatin, in postischemic hippocampus. Saido TC, et al. **Neurosci Lett** 1997 May 16;227(2):75-8

A calcineurin homologous protein inhibits GTPase-stimulated Na-H exchange. Lin X, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12631-6

Direct modulation of calmodulin targets by the neuronal calcium sensor NCS-1. Schaad NC, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9253-8

PHYSIOLOGY

A Ca(2+)-sensing receptor: from physiology to inherited disorders of calcium homeostasis. Hebert SC, et al. **Adv Nephrol Necker Hosp** 1996;25:245-55 (55 ref.)

Phospholamban ablation enhances relaxation in the murine soleus. Slack JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C1-6

Sites of regulatory interaction between calcium ATPases and phospholamban. MacLennan DH, et al. **Basic Res Cardiol** 1997;92 Suppl 1:11-5 (32 ref.)

Calcium- and zinc-binding proteins in intracellular transport. Aballay A, et al. **Biocell** 1996 Dec;20(3):339-42 (28 ref.)

Simultaneous measurement of intracellular calcium and ventricular function in the phospholamban-deficient mouse heart. Hampton TG, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):836-41

Calreticulin-integrin bidirectional signaling complex. Zhu Q, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):354-8

Growth & mammary abnormalities in mice containing an altered calcium-binding protein transgene. Davies MP, et al. **Biochem Soc Trans** 1996 Aug;24(3):356S

Regulation and proinflammatory properties of the chemotactic protein, CP-10. Geczy C. **Biochim Biophys Acta** 1996 Oct 11;1313(3):246-52 (56 ref.)

Modulation of SERCA2 activity: regulated splicing and interaction with phospholamban. Verboomen H, et al. **Biosci Rep** 1995 Oct;15(5):307 (48 ref.)

Reversal of the in vivo metastatic phenotype of human tumor cells by an anti-CAPL (mts1) ribozyme. Maelandsmo GM, et al. **Cancer Res** 1996 Dec 1;56(23):5490-8

CED-4--the third horseman of apoptosis [comment] Vaux DL. **Cell** 1997 Aug 8;90(3):389-90 (17 ref.). Comment on: Cell 1997 Aug 8;90(3):405-13.

Calreticulin: how many functions in how many cellular compartments? Como, April 1996. Meldolesi J, et al. **Cell Calcium** 1996 Jul;20(1):83-6

Calcium binding proteins in normal and transformed cells, Perugia, May 1996. Williams RJ. **Cell Calcium** 1996 Jul; 20(1):87-93

Phospholamban: a prominent regulator of myocardial contractility. Koss KL, et al. **Circ Res** 1996 Dec; 79(6):1059-63 (42 ref.)

Metastasis-related mts1 gene. Lukanidin EM, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):171-95 (110 ref.)

The calcium-sensing receptor: a window into the physiology and pathophysiology of mineral ion metabolism [published erratum appears in Endocr Rev 1996 Oct;17(5):517] Chattopadhyay N, et al. **Endocr Rev** 1996 Aug; 17(4):289-307 (160 ref.)

Calcium- and pH-linked oligomerization of sorcin causing translocation from cytosol to membranes. Zamparelli C, et al. **FEBS Lett** 1997 Jun 2;409(1):1-6

Roles for calreticulin and a novel glycoprotein, tapasin, in the interaction of MHC class I molecules with TAP. Sadasivan B, et al. **Immunity** 1996 Aug;5(2):103-14

PlcR1 and PlcR2 are putative calcium-binding proteins required for secretion of the hemolytic phospholipase C of Pseudomonas aeruginosa. Cota-Gomez A, et al. **Infect Immun** 1997 Jul;65(7):2904-13

Calponin. el-Mezgueldi M. **Int J Biochem Cell Biol** 1996 Nov;28(11):1185-9 (11 ref.)

Phospholamban inhibitory function is activated by depolymerization. Kimura Y, et al. **J Biol Chem** 1997 Jun 13;272(24):15061-4

Physical and functional interactions of Doc2 and Munc13 in Ca2+-dependent exocytotic machinery. Orita S, et al. **J Biol Chem** 1997 Jun 27;272(26):16081-4

The Ca2+-sensing receptor (CaR) activates phospholipases C, A2, and D in bovine parathyroid and CaR-transfected, human embryonic kidney (HEK293) cells. Kifor O, et al. **J Bone Miner Res** 1997 May;12(5):715-25

A distinct cation-sensing mechanism in MC3T3-E1 osteoblasts functionally related to the calcium receptor. Quarles LD, et al. **J Bone Miner Res** 1997 Mar; 12(3):393-402

SR Ca(2+)-ATPase/phospholamban in cardiomyocyte function. Tada M, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S77-85 (39 ref.)

Heterotrimeric kinesin-II is required for the assembly of motile 9+2 ciliary axonemes on sea urchin embryos. Morris RL, et al. **J Cell Biol** 1997 Sep 8;138(5):1009-22

Association and colocalization of Eps15 with adaptor protein-2 and clathrin. van Delft S, et al. **J Cell Biol** 1997 Feb 24;136(4):811-21

Roles of calnexin and Ig-alpha beta interactions with membrane Igs in the surface expression of the B cell antigen receptor of the IgM and IgD classes. Wu Y, et al. **J Immunol** 1997 Mar 15;158(6):2762-70

Psoriasin: a novel chemotactic protein. Jinquan T, et al. **J Invest Dermatol** 1996 Jul;107(1):5-10

The neuronal calcium-sensor protein VILIP modulates cyclic AMP accumulation in stably transfected C6 glioma cells: amino-terminal myristoylation determines functional activity. Braunewell KH, et al. **J Neurochem** 1997 May; 68(5):2129-39

Influence of protein nutrition on calpain activity of mouse kidney: modulation by calpastatin. Goicoechea SM, et al. **Mol Cell Biochem** 1997 Jan;166(1-2):95-9

Calcium-binding protein regucalcin inhibits deoxyribonucleic acid synthesis in the nuclei of regenerating rat liver. Yamaguchi M, et al. **Mol Cell Biochem** 1996 Sep 20; 162(2):121-6

Beta 2-microglobulin and calnexin can independently promote folding and disulfide bond formation in class I histocompatibility proteins. Tector M, et al. **Mol Immunol** 1997 Apr;34(5):401-8

Regulation of the calpain-calpastatin system by membranes (review). Kawasaki H, et al. **Mol Membr Biol** 1996 Oct-Dec;13(4):217-24 (74 ref.)

Functional and clinical aspects of the myelomonocyte protein calprotectin. Johne B, et al. **Mol Pathol** 1997 Jun; 50(3):113-23 (142 ref.)

Calreticulin is essential for integrin-mediated calcium signalling and cell adhesion. Coppolino MG, et al. **Nature** 1997 Apr 24;386(6627):843-7

Apoptosis. CED-4 is a stranger no more [news; comment] Hengartner MO. **Nature** 1997 Aug 21;388(6644):714-5. Comment on: Nature 1997 Aug 21;388(6644):728-9.

The putative chaperone calmegin is required for sperm fertility. Ikawa M, et al. **Nature** 1997 Jun 5; 387(6633):607-11

Spatial learning and memory in calpastatin-deficient rats. Tóth E, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):230-5

DOC2 proteins in rat brain: complementary distribution and proposed function as vesicular adapter proteins in early stages of secretion. Verhage M, et al. **Neuron** 1997 Mar; 18(3):453-61

Cao-sensing receptor (CaR)-mediated activation of K+ channels is blunted in CaR gene-deficient mouse neurons. Vassilev PM, et al. **Neuroreport** 1997 Apr 14;8(6):1411-6

Skeletal functions of vitamin K-dependent proteins: not just for clotting anymore. Booth SL. **Nutr Rev** 1997 Jul; 55(7):282-4 (15 ref.)

Slow cycling of unphosphorylated myosin is inhibited by calponin, thus keeping smooth muscle relaxed. Malmqvist U, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7655-60

Calexcitin: a signaling protein that binds calcium and GTP, inhibits potassium channels, and enhances membrane excitability. Nelson TJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13808-13

Regulatory interactions between calcium ATPases and phospholamban. MacLennan DH, et al. **Soc Gen Physiol Ser** 1996;51:89-103 (72 ref.)

Turned on by Ca2+! The physiology and pathology of Ca(2+)-binding proteins in the retina. Polans A, et al. **Trends Neurosci** 1996 Dec;19(12):547-54 (69 ref.)

[Calcyclin--calcium binding protein of the S-100 protein] Filipek A, et al. **Postepy Biochem** 1996;42(2):213-7 (45 ref.) **(Pol)**

[Retinal calcium-binding proteins--their function and pathology] Witkowska D, et al. **Postepy Hig Med Dosw** 1997;51(1):1-22 (97 ref.) (Eng. Abstr.) **(Pol)**

[Acquisition of ability to metastasize by spontaneous tumors under the effect of metastazin 1 in transgenic animals] Ambartsumian NS, et al. **Dokl Akad Nauk** 1997 Jun; 354(6):821-4 **(Rus)**

SECRETION

Biliary secretion of anionic polypeptide fraction is not coupled to that of phospholipids and cholesterol in rats. Verkade HJ, et al. **Hepatology** 1997 Jan;25(1):38-47

Myeloid-related protein (MRP) 8 and MRP14, calcium-binding proteins of the S100 family, are secreted by activated monocytes via a novel, tubulin-dependent pathway. Rammes A, et al. **J Biol Chem** 1997 Apr 4; 272(14):9496-502

ULTRASTRUCTURE

Three-dimensional structure of annexins. Liemann S, et al. **Cell Mol Life Sci** 1997 Jun;53(6):516-21 (51 ref.)

Mimicry of the calcium-induced conformational state of troponin C by low temperature under pressure. Foguel D, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10642-6

CALCIUM BLOCKADERS, EXOGENOUS see **CALCIUM CHANNEL BLOCKERS**

CALCIUM-CALMODULIN DEPENDENT PROTEIN KINASES see **CALMODULIN-DEPENDENT PROTEIN KINASES**

CALCIUM CARBIMIDE see **CYANAMIDE**

CALCIUM CARBONATE

Clinical and histological results in alveolar ridge enlargement using coralline calcium carbonate. Piattelli A, et al. **Biomaterials** 1997 Apr;18(8):623-7

Bone marrow induced osteogenesis in hydroxyapatite and calcium carbonate implants. Vuola J, et al. **Biomaterials** 1996 Sep;17(18):1761-6

Intracrystalline macromolecules are involved in the morphogenesis of calcitic sponge spicules. Aizenberg J, et al. **Connect Tissue Res** 1996;34(4):255-61 (21 ref.)

Regulation of calcite crystal morphology by intracrystalline acidic proteins and glycoproteins. Albeck S, et al. **Connect Tissue Res** 1996;35(1-4):365-70 (19 ref.)

Spicule formation in the New Zealand ascidian Pyura pachydermatina (Chordata, Ascidiacea). Lambert G, et al. **Connect Tissue Res** 1996;34(4):263-9

Occupational sensitization to epoxy resin and reactive diluents in marble workers. Angelini G, et al. **Contact Dermatitis** 1996 Jul;35(1):11-6

An esophageal foreign body impaction from a Tums E-X tablet. Wisniewski RM, et al. **Gastrointest Endosc** 1997 Jun; 45(6):518-21

Airflow obstruction in chalkpowder and sugar workers. Bohadana AB, et al. **Int Arch Occup Environ Health** 1996; 68(4):243-8

Pancreatic stone protein (lithostathine), a physiologically relevant pancreatic calcium carbonate crystal inhibitor? Bimmler D, et al. **J Biol Chem** 1997 Jan 31;272(5):3073-82

Effects of polyglactin mesh combined with resorbable calcium carbonate or replamineform hydroxyapatite on periodontal repair in dogs. Moon IS, et al. **J Clin Periodontol** 1996 Oct;23(10):945-51

Periodontal repair in intrabony defects treated with a calcium carbonate implant and guided tissue regeneration. Kim CK, et al. **J Periodontol** 1996 Dec;67(12):1301-6

Drying of a white porous limestone monitored by NMR imaging. de Barquin F, et al. **Magn Reson Imaging** 1996; 14(7-8):941-3

Quantitative 1D saturation profiles on chalk by NMR. Olsen D, et al. **Magn Reson Imaging** 1996;14(7-8):847-51

The effects of internal fixation on calcium carbonate. Ceramic anterior spinal fusion in dogs. Fuller DA, et al. **Spine** 1996 Sep 15;21(18):2131-6

Hypophosphataemic rickets and nephrocalcinosis in ostrich chicks brooded and reared on limestone sand. Morrow CJ, et al. **Vet Rec** 1997 May 17;140(20):531-2

[Biocoral--an alternative bone substitute] Soost F. **Chirurg** 1996 Nov;67(11):1193-6 (Eng. Abstr.) **(Ger)**

[Determination of formulation quantities for three kinds of antacid using triangle coordinates] Sofue M, et al. **Yakugaku Zasshi** 1997 Mar;117(3):185-92 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Prevention of corticosteroid-induced osteoporosis [letter; comment] Birdsall TC. **Ann Intern Med** 1997 Jul 1;127(1):90 . Comment on: Ann Intern Med 1996 Dec 15;125(12):961-8.

Calcium and vitamin D3 supplementation prevents bone loss in the spine secondary to low-dose corticosteroids in patients with rheumatoid arthritis. A randomized, double-blind, placebo-controlled trial [see comments] Buckley LM, et al. **Ann Intern Med** 1996 Dec 15; 125(12):961-8. Comment in: Ann Intern Med 1997 Jul 1;127(1):90.

Acute changes in serum calcium and parathyroid hormone circulating levels induced by the oral intake of five currently available calcium salts in healthy male volunteers. Deroisy R, et al. **Clin Rheumatol** 1997 May;16(3):249-53

Calcium supplementation during breast-feeding [editorial;

comment] Prentice A. **N Engl J Med** 1997 Aug 21; 337(8):558–9. Comment on: N Engl J Med 1997 Aug 21;337(8):523–8.

Calcium acetate versus calcium carbonate and erythropoietin dosages in haemodialysis patients. Janssen MJ, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2321–4

Long-term effects of intravenous 1 alpha (OH)D3 combined with CaCO3 and low-calcium dialysis on secondary hyperparathyroidism and biochemical bone markers in patients on chronic hemodialysis. Brandi L, et al. **Nephron** 1996;74(1):89–103

Comparison of calcium retention measured using a radionuclide method after administration of 1000 mg elemental calcium in two different galenic forms, in one or two doses. Micheletti MC, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):51–5

[Medical parathyroidectomy. Its efficacy in treatment of lower maxillary brown tumor] Graciela Garcia M, et al. **Medicina (B Aires)** 1996;56(1):59–62 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Calcium carbonate as a constipating agent—a myth of centuries revisited. Caspary WF. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):545–7 (24 ref.)

The inflammatory potential of surgical glove lubricants: Biosorb, Keoflo, calcium carbonate and Hydrocote after intravitreal injection. Park HS, et al. **Korean J Ophthalmol** 1997 Jun;11(1):51–9

Calcium carbonate can enhance aluminium absorption from aluminium hydroxide in patients with impaired renal function [letter] Lin JL, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1891–3

ANALYSIS

Relationship between water hardness and coronary mortality in Taiwan. Yang CY, et al. **J Toxicol Environ Health** 1996 Sep;49(1):1–9

Crystalline composition of equine urinary sabulous deposits. Diaz-Espineira M, et al. **Scanning Microsc** 1995; 9(4):1071–7; discussion 1077–9

Strontianite in coral skeletal aragonite. Greegor RB, et al. **Science** 1997 Mar 7;275(5305):1452–4

CHEMISTRY

Modification of calcite crystal growth by abalone shell proteins: an atomic force microscope study. Walters DA, et al. **Biophys J** 1997 Mar;72(3):1425–33

[Formulation of calcium carbonate tablets with various binding substances] Gazikalović E, et al. **Vojnosanit Pregl** 1996 Mar-Apr;53(2):117–20 (Eng. Abstr.) **(Scr)**

METABOLISM

Soluble matrix of hen's eggshell extracts changes in vitro the rate of calcium carbonate precipitation and crystal morphology. Gautron J, et al. **Br Poult Sci** 1996 Sep; 37(4):853–66

Evidence for the involvement of carbonic anhydrase and urease in calcium carbonate formation in the gravity-sensing organ of Aplysia californica. Pedrozo HA, et al. **Calcif Tissue Int** 1997 Sep;61(3):247–55

Regulation of statoconia mineralization in Aplysia californica in vitro. Pedrozo HA, et al. **Connect Tissue Res** 1996; 35(1–4):317–23

Pancreatic lithostathine as a calcite habit modifier. Geider S, et al. **J Biol Chem** 1996 Oct 18;271(42):26302–6

Calcium carbonate apatite deposition in the cervical spine with associated vertebral destruction. Case report. Ojemann JG, et al. **J Neurosurg** 1997 Jun;86(6):1022–6

Calcium acetate versus calcium carbonate as oral phosphate binder in pediatric and adolescent hemodialysis patients. Wallot M, et al. **Pediatr Nephrol** 1996 Oct;10(5):625–30

The influence of environmental temperature on in vivo limestone solubilization, feed passage rate, and gastrointestinal pH in laying hens. Gordon RW, et al. **Poult Sci** 1997 May;76(5):683–8

Comparison of calcium retention measured using a radionuclide method after administration of 1000 mg elemental calcium in two different galenic forms, in one or two doses. Micheletti MC, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):51–5

PHARMACOKINETICS

In vivo absorption of calcium carbonate and magnesium oxide from the large intestine in rats. Ohta A, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):35–46

Intestinal calcium absorption from different calcium preparations: influence of anion and solubility. Hansen C, et al. **Osteoporos Int** 1996;6(5):386–93

PHARMACOLOGY

Activation of human neutrophils by calcium carbonate polymorphs. Burt HM, et al. **Dig Dis Sci** 1997 Jun; 42(6):1283–9

Absence of rebound effect with calcium carbonate. Simoneau G. **Eur J Drug Metab Pharmacokinet** 1996 Oct-Dec; 21(4):351–7

Comparison of effects of calcitriol and calcium carbonate on secretion of interleukin-1 beta and tumour necrosis factor-alpha by uraemic peripheral blood mononuclear cells. Tsukamoto Y, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 3:15–21

POISONING

The milk-alkali syndrome caused by betelnuts in oyster shell paste. Wu KD, et al. **J Toxicol Clin Toxicol** 1996; 34(6):741–5

Severe hypercalcemia, renal failure, and medullary nephrocalcinosis secondary to calcium carbonate ingestion [letter] Blau EB, et al. **Pediatr Nephrol** 1997 Jun;11(3):391

THERAPEUTIC USE

The effect of wheat bran fiber and calcium supplementation on rectal mucosal proliferation rates in patients with resected adenomatous colorectal polyps. Alberts DS, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar;6(3):161–9

Oral vitamin D or calcium carbonate in the prevention of renal bone disease? Argilés A, et al. **Curr Opin Nephrol Hypertens** 1996 Jul;5(4):329–36 (53 ref.)

Calcium carbonate treatment of diarrhoea in intestinal bypass patients. Steinbach G, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):559–62

A 3-year pilot study with 1,25-dihydroxyvitamin D, calcium, and calcitonin for severe osteodystrophy in primary biliary cirrhosis. Floreani A, et al. **J Clin Gastroenterol** 1997 Jun; 24(4):239–44

The effect of calcium supplementation on bone density during lactation and after weaning [see comments] Kalkwarf HJ, et al. **N Engl J Med** 1997 Aug 21;337(8):523–8. Comment in: N Engl J Med 1997 Aug 21;337(8):558–9.

alpha-Ketoglutarate application in hemodialysis patients improves amino acid metabolism. Riedel E, et al. **Nephron** 1996;74(2):261–5

A randomized controlled trial of the effect of third-trimester calcium supplementation on maternal hemodynamic function. Boggess KA, et al. **Obstet Gynecol** 1997 Aug; 90(2):157–61

Calcium supplementation and the risk of preeclampsia in Ecuadorian pregnant teenagers. López-Jaramillo P, et al. **Obstet Gynecol** 1997 Aug;90(2):162–7

Efficiency of preventive treatment of glucocorticoid-induced osteoporosis with 25-hydroxyvitamin D3 and calcium in kidney transplant patients. Tałałaj M, et al. **Transplant Proc** 1996 Dec;28(6):3485–7

TOXICITY

Tolerance of the nematode Caenorhabditis elegans to pH, salinity, and hardness in aquatic media. Khanna N, et al. **Arch Environ Contam Toxicol** 1997 Jan;32(1):110–4

CALCIUM CHANNEL ACTIVATORS see **CALCIUM CHANNEL AGONISTS**

CALCIUM CHANNEL AGONISTS

ANTAGONISTS & INHIBITORS see CALCIUM CHANNEL BLOCKERS

CHEMISTRY

Bastadin 20 and bastadin O-sulfate esters from Ianthella basta: novel modulators of the Ry1R FKBP12 receptor complex. Franklin MA, et al. **J Nat Prod** 1996 Dec;59(12):1121–7

PHARMACOLOGY

BAY K 8644 and ClO4- potentiate caffeine contracture without Ca2+ release channel activation. Oba T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C41–7

Activation of protein kinase C by 1,4-dihydro-2,6-dimethyl-5-nitro-4-[2-(trifluoromethyl)-phenyl]-3-py rid ine carboxylic acid methyl ester (Bay K 8644), a calcium channel agonist, in alveolar type II cells. Sen N, et al. **Biochem Pharmacol** 1997 May 9;53(9):1307–13

Voltage-dependent modulation of single N-Type Ca2+ channel kinetics by receptor agonists in IMR32 cells. Carabelli V, et al. **Biophys J** 1996 May;70(5):2144–54

Activation by high potassium of a novel voltage-operated Ca2+ channel in rat spleen. Ko FN, et al. **Br J Pharmacol** 1997 Feb;120(4):565–70

Nitric oxide, a possible mediator of 1,4-dihydropyridine-induced photorelaxation of vascular smooth muscle. Lovren F, et al. **Br J Pharmacol** 1996 Jun; 118(4):879–84

Long Ca2+ channel opening induced by large depolarization and Bay K 8644 in smooth muscle cells isolated from guinea-pig detrusor. Nakayama S, et al. **Br J Pharmacol** 1996 Oct;119(4):716–20

Investigation of the negative inotropic effects of 17 beta-oestradiol in human isolated myocardial tissues. Sitzler G, et al. **Br J Pharmacol** 1996 Sep;119(1):43–8

K+ channel openers protect hippocampal neurons against oxidative injury and amyloid beta-peptide toxicity. Goodman Y, et al. **Brain Res** 1996 Jan 15;706(2):328–32

Ca2+ channel currents in type I carotid body cells of normoxic and chronically hypoxic neonatal rats. Peers C, et al. **Brain Res** 1996 Nov 11;739(1-2):251–7

The non-neurogenic catecholamine response of the fetal adrenal to hypoxia is dependent on activation of voltage sensitive Ca2+ channels. Adams MB, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):182–9

Okadaic acid enhances prepulse facilitation of cardiac alpha 1-subunit but not endogenous calcium channel currents in Xenopus laevis oocytes. Chahine M, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1149–56

Role of tyrosine kinase on Ca2+ entry and refilling of agonist-sensitive Ca2+ stores in vascular smooth muscles. Low AM. **Can J Physiol Pharmacol** 1996 Mar; 74(3):298–304

Modulation of myocardial economy and efficiency in mammalian failing and non-failing myocardium by calcium channel activation and beta-adrenergic stimulation. Ruf T, et al. **Cardiovasc Res** 1996 Dec;32(6):1047–55

Synergistic effects of Bay K 8644 and bradykinin on norepinephrine release in the hypothalamus of spontaneously hypertensive rats. Tsuda K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S54–7

A tyrosine kinase regulates alpha-adrenoceptor-stimulated contraction and phospholipase D activation in the rat aorta. Jinsi A, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):183–90

Differences in isoproterenol stimulation of Ca2+ current of rat ventricular myocytes in neonatal compared to adult. Katsube Y, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2-3):391–400

Orthophosphate salts induce calcium current recovery from blockade by gadolinium in isolated guinea-pig ventricular myocytes. Le Guennec JY, et al. **Exp Physiol** 1996 Jul; 81(4):577–85

Frequency-dependent effects of Bay K 8644 on tetanic contractions of frog skeletal muscle. Oz M, et al. **Gen Pharmacol** 1997 Jan;28(1):99–103

The effects of calcium channel modulators on contractions of tonic frog muscle fibres. Kössler F, et al. **Gen Physiol Biophys** 1996 Feb;15(1):37–50

Interaction of calcium channel blockers with different agonists in aorta from normal and diseased rats. Bhugra P, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):109–19

Effect of the Ca(2+)-channel agonist Bay K 8644 on the contractile responses in human placental veins. Barrús MT, et al. **J Auton Pharmacol** 1996 Jun;16(3):161–7

Effects of Bay K 8644 on L-type calcium current from newborn rat cardiomyocytes in primary culture. Gomez JP, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2217–29

On the role of agonist-evoked Ca2+ mobilization in sustaining the ongoing phosphoinositide hydrolysis. A study on intact SK-N-BE(2) neuroblastoma cells subjected to muscarinic stimulation. Limatola C, et al. **J Neurooncol** 1997 Jan;31(1-2):129–32

Protein kinase C requirement of Ca2+ channel stimulation by intracellular ATP in guinea-pig basilar artery smooth muscle cells. McHugh D, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):311–7

A new type of Ca-channel modulation by a novel class of 1,4-dihydropyridines. Bechem M, et al. **Life Sci** 1997; 60(2):107–18

Drugs acting on calcium channels modulate the diuretic and micturition effects of dexmedetomidine in rats. Horváth G, et al. **Life Sci** 1996;59(15):1247–57

Inhibition by bosentan, an endothelin antagonist, of the hypersensitivity to Ca2+ channel activator evoked by salt-loading in basilar artery of stroke-prone spontaneously hypertensive rats. Salomone S, et al. **Life Sci** 1996; 59(16):PL247–53

The calcium channel agonist BAY k 8644 reduces ethanol intake and preference in alcohol-preferring AA rats. de Beun R, et al. **Psychopharmacology (Berl)** 1996 Oct; 127(4):302–10

Effect of chronic administration of dihydropyridine Ca2+ channel ligands on sufentanil-induced tolerance to mu- and kappa-opioid agonists in the guinea pig ileum myenteric plexus. Garaulet JV, et al. **Regul Pept** 1996 May 7;63(1):1–8

CALCIUM CHANNEL AGONISTS, EXOGENOUS see **CALCIUM CHANNEL AGONISTS**

CALCIUM CHANNEL BLOCKERS

see related
ANTI-ARRHYTHMIA AGENTS
ANTIHYPERTENSIVE AGENTS
VASODILATOR AGENTS

Mechanism of verapamil calcium channel blockade-induced hyperprolactinemia. Kelley SR, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E96–100

On the concept of a bivalent pharmacophore for SKCa channel blockers: synthesis, pharmacological testing, and radioligand binding studies on mono-, bis-, and tris-quinolinium compounds. Galanakis D, et al. **Arch Pharm (Weinheim)** 1996 Dec;329(12):524–8

The calcium channel blocker controversy in 1997. Thompson PL, et al. **Aust N Z J Med** 1997 Jun;27(3):330–5

Synthesis and pharmacology of alkanediguanidinium compounds that block the neuronal nicotinic acetylcholine receptor. Villarroya M, et al. **Bioorg Med Chem** 1996 Aug; 4(8):1177–83

Third generation calcium entry blockers [see comments] Toyo-Oka T, et al. **Blood Press** 1996 Jul;5(4):206–8 (8 ref.) . Comment in: Blood Press 1996 Sep;5(5):319. Comment in: Blood Press 1996 Nov;5(6):376–7.

Third generation calcium antagonists: further developments [letter; comment] van Zwieten PA, et al. **Blood Press** 1996 Nov;5(6):376–7. Comment on: Blood Press 1996

Jul;5(4):206–8.

Dihydropyridine calcium antagonists: beneficial or adverse effects in the setting of myocardial ischaemia/reperfusion? Ehring T, et al. **Cardiology** 1997;88 Suppl 1:3–14; discussion 15–6 (117 ref.)

The calcium channel blocker controversy in perspective. Zanchetti A. **Cardiology** 1997;88 Suppl 1:66–70; discussion 71–2 (28 ref.)

Treatment of no-reflow in degenerated saphenous vein graft interventions: comparison of intracoronary verapamil and nitroglycerin [see comments] Kaplan BM, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):113–8. Comment in: Cathet Cardiovasc Diagn 1996 Oct;39(2):119.

Role of angiotensin II in reflex tachycardia during hypotension caused by a calcium channel blocker. Sato K, et al. **Clin Exp Hypertens** 1996 Jul;18(5):607–24

Calcium antagonists in the elderly. A risk-benefit analysis. Schwartz JB. **Drugs Aging** 1996 Jul;9(1):24–36 (92 ref.)

Calcium channel blockers in the management of hypertension [editorial] Fitzgerald D. **Ir Med J** 1996 Jan–Feb;89(1):8

Should a moratorium be placed on sublingual nifedipine capsules given for hypertensive emergencies and pseudoemergencies? [see comments] Grossman E, et al. **JAMA** 1996 Oct 23–30;276(16):1328–31 (65 ref.). Comment in: JAMA 1996 Oct 23–30;276(16):1342–3. Comment in: JAMA 1997 Mar 12;277(10):787; discussion 790–1. Comment in: JAMA 1997 Mar 12;277(10):787–8; discussion 790–1. Comment in: JAMA 1997 Mar 12;277(10):788; discussion 790–1. Comment in: JAMA 1997 Mar 12;277(10):788–9; discussion 790–1. Comment in: JAMA 1997 Mar 12;277(10):789–90; discussion 790–1. Comment in: JAMA 1997 Mar 12;277(10):790; discussion 790–1.

Inhibition of calcium channels in rat hippocampal CA1 neurons by conantokin-T. Hsu KS, et al. **Neurosci Lett** 1996 Dec 13;220(2):113–6

Calcium antagonists improve kidney function in the rat after cold storage in high-Na UW but not in high-K UW solution. Hadj-Aïssa A, et al. **Transplant Proc** 1997 Aug; 29(5):2439–41

[Proceedings of the 3rd international symposium on ion channels and Ca2+ antagonists] **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):75–87 (Eng. Abstr.) **(Chi)**

[Vaughan Williams class IV antiarrhythmic drugs] Horie M, et al. **Nippon Rinsho** 1996 Aug;54(8):2132–7 (7 ref.) (Eng. Abstr.) **(Jpn)**

[IBM, money, calcium antagonists and bias (letter)] Hernborg A. **Lakartidningen** 1996 Nov 13;93(46):4136 **(Swe)**

[Calcium antagonists. Great tissue selectivity is the basis of their therapeutic use] Högestätt ED, et al. **Lakartidningen** 1997 Sep 3;94(36):3024–6, 3029–31 (82 ref.) (Eng. Abstr.) **(Swe)**

ADMINISTRATION & DOSAGE

Flunarizine in stroke treatment (FIST): a double-blind, placebo-controlled trial in Scandinavia and the Netherlands. Franke CL, et al. **Acta Neurol Scand** 1996 Jan;93(1):56–60

Mibefradil, a novel calcium antagonist, in elderly patients with hypertension: favorable hemodynamics and pharmacokinetics. Bursztyn M, et al. **Am Heart J** 1997 Aug; 134(2 Pt 1):238–47

Safety of mibefradil, a new once-a-day, selective T-type calcium channel antagonist. Kobrin I, et al. **Am J Cardiol** 1997 Aug 21;80(4B):40C–46C

Effects of verapamil SR, trandolapril, and their fixed combination on 24-h blood pressure: the Veratran Study. **Am J Hypertens** 1997 May;10(5 Pt 1):492–9

Effects of verapamil on the renal actions induced by nitric oxide and prostaglandin synthesis inhibition. Llinás MT, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):973–81

The effects of isradipine and spirapril as monotherapy and combined therapy on blood pressure, renal hemodynamics, natriuresis, and urinary kallikrein in hypertensive nephropathy. Maccariello ER, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):541–5

"Inappropriate" physician habits in prescribing oral nifedipine capsules in hospitalized patients. Rehman F, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1035–9

Nifedipine gastrointestinal therapeutic system versus nifedipine coat-core: comparison of efficacy via 24-hour ambulatory blood pressure monitoring. Defina LF, et al. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):819–22

Intravenous nicardipine in hypertensive preterm infants. Gouyon JB, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F126–7

The relative bioavailability of two marketed controlled release diltiazem dosage forms at steady state in healthy volunteers. Lippert CL, et al. **Biopharm Drug Dispos** 1996 Jan;17(1):43–53

The cardiovascular response to medullary cholinergic and corticoid stimulation is calcium channel dependent in rats. Zhu DN, et al. **Blood Press** 1997 May;6(3):171–9

Anti-hypertensive effect of manidipine: 24 hours monitoring evaluation and Doppler-echocardiographic remarks. Celentano A, et al. **Blood Press Suppl** 1996;5:29–35

Fixed dose combinations of ACE inhibitors. Rangoonwala B, et al. **Br J Clin Pract** 1996 Dec;50(8):454–65 (70 ref.)

Cardiovascular effects of a low-dose combination of ramipril and felodipine in spontaneously hypertensive rats. Mervaala EM, et al. **Br J Pharmacol** 1997 Jun;121(3):503–10

Is a combination of verapamil and an ACE-inhibitor the optimal solution in ischaemic heart failure? Jespersen CM. **Cardiologia** 1995 Dec;40(12 Suppl 1):307–10

Coronary venous drug infusion in the ischaemic-reperfused isolated rat heart. Uriuda Y, et al. **Cardiovasc Res** 1996 Jan;31(1):82–92

A comparison of two long-acting vasoselective calcium antagonists in pulmonary hypertension secondary to COPD. Sajkov D, et al. **Chest** 1997 Jun;111(6):1622–30

Alert over sound-alike drugs [letter] Bailey B, et al. **CMAJ** 1997 Jul 1;157(1):16, 18

Comparison of once daily and twice daily nisoldipine as monotherapy in essential hypertension. Davidsson GK, et al. **Control Clin Trials** 1996 Apr;17(2):117–22

High-dose diltiazem prevents migration and proliferation of vascular smooth muscle cells in various in-vitro models of human coronary restenosis. Voisard R, et al. **Coron Artery Dis** 1997 Mar–Apr;8(3–4):189–201

Doppler flow and echocardiography in functional cardiac insufficiency: assessment of nisoldipine therapy. Results of the DEFIANT-II Study. The DEFIANT-II Research Group. **Eur Heart J** 1997 Jan;18(1):31–40

Calcium antagonist controversy reassessed--'difficile est satiram non scribere' [letter; comment] Messerli FH. **Eur Heart J** 1997 Jan;18(1):166–7. Comment on: Eur Heart J 1996 Aug;17(8):1142–7.

Clinical promise of calcium antagonists in the angioplasty patient. Thaulow E, et al. **Eur Heart J** 1997 May;18 Suppl B:B21–6 (47 ref.)

Efficacy and safety of low-dose propranolol versus diltiazem in the prophylaxis of supraventricular tachyarrhythmia after coronary artery bypass grafting. Babin-Ebell J, et al. **Eur J Cardiothorac Surg** 1996;10(6):412–6

Essential palatal tremor successfully treated with flunarizine. Cakmur R, et al. **Eur Neurol** 1997;38(2):133–4

The effects of calcium channel blockade on agouti-induced obesity. Kim JH, et al. **FASEB J** 1996 Dec;10(14):1646–52

Trandolapril plus verapamil inhibits the coronary vasospasm induced by hypoxia following ischemia-reperfusion injury in dogs. Lee JJ, et al. **Gen Pharmacol** 1996 Sep;27(6):1057–9

Hypertensive urgencies: how to give a low dose of short-acting nifedipine [letter] Bloomfield RL, et al. **Geriatrics** 1996 Sep;51(9):10

Antiischemic effect of intracoronary diltiazem on myocardial ischemia during PTCA. Saito K, et al. **Heart Vessels** 1996; 11(2):92–9

Nifedipine attenuates systemic and renal vasoconstriction during nitric oxide inhibition in humans. Dijkhorst-Oei LT, et al. **Hypertension** 1997 May;29(5):1192–8

Cardiovascular effects of anandamide in anesthetized and conscious normotensive and hypertensive rats. Lake KD, et al. **Hypertension** 1997 May;29(5):1204–10

Short-term low dose intracoronary diltiazem administered at the onset of reperfusion reduces myocardial infarct size. Herzog WR, et al. **Int J Cardiol** 1997 Mar;59(1):21–7

Hemodynamic and cardiac effects of the selective T-type and L-type calcium channel blocking agent mibefradil in patients with varying degrees of left ventricular systolic dysfunction. Rousseau MF, et al. **J Am Coll Cardiol** 1996 Oct;28(4):972–9

Differential activation of cardiac and peripheral sympathetic nervous system by nifedipine: role of pharmacokinetics. Wenzel RR, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1607–14

Effects of intermittent hPTH(1–34) alone and in combination with 1,25(OH)(2)D(3) or risedronate on endosteal bone remodeling in canine cancellous and cortical bone. Boyce RW, et al. **J Bone Miner Res** 1996 May;11(5):600–13

Infarct size reduction with coronary venous retroinfusion of diltiazem in the acute occlusion/reperfusion porcine heart model. Tadokoro H, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):134–41

Add-on therapy with nimodipine in intractable epilepsy of childhood. Malashkhia VY, et al. **J Child Neurol** 1996 Nov; 11(6):500–1

A comparison of the antihypertensive effectiveness of a combination of moexipril or sustained-release verapamil with low-dose hydrochlorothiazide. Chrysant SG, et al. **J Clin Pharmacol** 1996 Aug;36(8):701–6

Disparate effects of ACE-inhibitors and calcium antagonists on left ventricular structure and function in essential hypertension. Aepfelbacher FC, et al. **J Hum Hypertens** 1997 May;11(5):321–5

The addition of mibefradil to chronic hydrochlorothiazide therapy in hypertensive patients is associated with a significant antihypertensive effect. Carney S, et al. **J Hum Hypertens** 1997 Jul;11(7):459–66

Structure and function of resistance arteries of hypertensive patients treated with a beta-blocker or a calcium channel antagonist. Schiffrin EL, et al. **J Hypertens** 1996 Oct; 14(10):1247–55

Fixed low-dose combination of an angiotensin converting enzyme inhibitor and a calcium channel blocker drug in the treatment of essential hypertension. de Leeuw PW, et al. **J Hypertens Suppl** 1997 Mar;15(2):S39–42 (20 ref.)

The effect of ACE inhibitors on atheroma formation is potentiated by association with a calcium channel blocker. A biochemical and ultrastructural study. Raicu M, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):317–28

Controlled periadventitial administration of verapamil inhibits neointimal smooth muscle cell proliferation and ameliorates vasomotor abnormalities in experimental vein bypass grafts. Brauner R, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):53–63

Determining the optimum dose for the intravenous administration of nicardipine in the treatment of acute heart failure--a multicenter study. The Nicardipine Heart Failure Study Group. Hirota Y, et al. **Jpn Circ J** 1997 May; 61(5):367–74

Effects of the calcium antagonist felodipine on renal haemodynamics, tubular sodium handling, and blood pressure in cyclosporin-treated dermatological patients. Madsen JK, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):480–4

Clinical effectiveness of lamotrigine and plasma levels in essential and symptomatic trigeminal neuralgia. Lunardi G, et al. **Neurology** 1997 Jun;48(6):1714–7

Studies in phlebitis VIII: evaluations of pH solubilized intravenous dexverapamil formulations. Simamora P, et al. **PDA J Pharm Sci Technol** 1996 Mar–Apr;50(2):123–8

An investigation into the transdermal delivery of nifedipine. McDaid DM, et al. **Pharm Acta Helv** 1996 Oct;71(4):253–8

Comparison of two formulations of nifedipine during 24-hour ambulatory blood pressure monitoring. Granberry MC, et al. **Pharmacotherapy** 1996 Sep–Oct;16(5):932–6

Antianginal response to once-daily diltiazem CD in patients receiving concomitant beta-blockers, long-acting nitrates, or both. Diltiazem CD Study Group. Heller GV, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):760–6

Comparison of two formulations of nifedipine during 24-hour ambulatory blood pressure monitoring--a comment. Lucas BD Jr, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):853–4

Development and characterization of nifedipine lipospheres. Vyas SP, et al. **Pharmazie** 1997 May;52(5):403–4

Protection from the nephrotoxicity of contrast dye. Louis BM, et al. **Ren Fail** 1996 Jul;18(4):639–46

[Effect of nifedipine on ocular pulse amplitude in normal pressure glaucoma] Schmidt KG, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):355–9 (Eng. Abstr.) **(Ger)**

[Phase prevention in bipolar affective disorder with nimodipine. A case report] Hesslinger B, et al. **Nervenarzt** 1996 May;67(5):394–6 (Eng. Abstr.) **(Ger)**

[Comparative antihypertensive action of 20 mg delayed-action nifedipine with either 25 or 50 mg atenolol. A study on the treatment of patients with mild to moderately severe arterial hypertension] Kraft K, et al. **Schweiz Rundsch Med Prax** 1996 Sep 3;85(36):1081–6 (Eng. Abstr.) **(Ger)**

[The effect of prophylactic intravenous diltiazem drip infusion on myocardial ischemia during noncardiac surgery] Katori K, et al. **Masui** 1997 Jun;46(6):835–41 (Eng. Abstr.) **(Jpn)**

[Anesthetic management for a patient with pheochromocytoma using magnesium sulfate and epidural block] Sakamoto T, et al. **Masui** 1996 Nov;45(11):1400–5 (Eng. Abstr.) **(Jpn)**

[Preventive use of diltiazem to suppress supraventricular tachyarrhythmia in the patients after esophagectomy] Shimada M, et al. **Masui** 1997 May;46(5):658–63 (Eng. Abstr.) **(Jpn)**

[Antihypertensive effects of long-term treatment with AE0047, a novel long-lasting calcium antagonist, in hypertensive models of rats and dogs] Kido H, et al. **Nippon Yakurigaku Zasshi** 1997 Jun;109(6):291–301 (Eng. Abstr.) **(Jpn)**

[A clinical study of diltiazem administration using cold glucose-insulin-potassium cardioplegic solution--comparison between diltiazem cardioplegia and diltiazem pretreatment] Koike R, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):162–8 (Eng. Abstr.) **(Jpn)**

[Effect of intravenous diltiazem (CRD-401) on myocardial protection--clinical experience in coronary artery revascularization] Sunamori M, et al. **Rinsho Kyobu Geka** 1988 Feb;8(1):61–6 (Eng. Abstr.) **(Jpn)**

[Effect of nimodipine in the diastolic function of the left ventricle in patients with essential hypertension and atherosclerotic circulatory encephalopathy] Alekhin MN, et al. **Klin Med (Mosk)** 1996;74(8):50–2 **(Rus)**

[A method for optimizing the finoptin treatment of patients with ischemic heart disease] Synchuk AN, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):140–2 **(Rus)**

[Intravenous diltiazem in the reversion to sinus rhythm in supraventricular tachyarrhythmias] Luciardi H, et al. **Arch Inst Cardiol Mex** 1996 Nov–Dec;66(6):505–9 (Eng. Abstr.) **(Spa)**

[Attempted suicide with oral diltiazem (letter)] Sevilla F, et al. **Med Clin (Barc)** 1996 Sep 7;107(7):275 **(Spa)**

ADVERSE EFFECTS

Association of calcium channel blocker use with increased rate of acute myocardial infarction in patients with left ventricular dysfunction. Kostis JB, et al. **Am Heart J** 1997 May;133(5):550–7

The calcium antagonist controversy: the emerging importance of drug formulation as a determinant of risk. Epstein M. **Am J Cardiol** 1997 May 22;79(10A):9–19; discussion 47–8 (72 ref.)

Is the calcium antagonist debate having an effect on clinical practice? Hobbs FD. **Am J Cardiol** 1997 May 22; 79(10A):20–3; discussion 47–8

Do calcium antagonists cause death, gastrointestinal bleeding, and cancer? [editorial] Kaplan NM. **Am J Cardiol** 1996 Oct 15;78(8):932–3

Overview of the safety of felodipine based on clinical trials in patients with hypertension. Welin L, et al. **Am J Cardiol** 1997 Apr 1;79(7):996–9

Cancer risk with calcium–channel–blocker use examined [news] **Am J Health Syst Pharm** 1996 Sep 1;53(17):1999

More news about calcium antagonists [editorial] Alderman MH. **Am J Hypertens** 1996 Jul;9(7):710–2

Calcium channel blockers and cancer: the evidence against an association [letter; comment] Brandenburg NA, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1049–50, discussion 1051–3. Comment on: Am J Hypertens 1996 Jul;9(7):695–9.

Calcium channel blockers and cancer: is an association biologically plausible? [editorial] Daling JR. **Am J Hypertens** 1996 Jul;9(7):713–4

Calcium channel antagonists: friend or foe in postinfarction patients? Gibson RS, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 2):172S–176S (36 ref.)

Monitoring compliance in the study by Pahor et al [letter; comment] Leader S, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1045–6, discussion 1051–3. Comment on: Am J Hypertens 1996 Jul;9(7):695–9.

Calcium channel blockers and cancer: a biological link remains elusive [letter; comment] Mason RP. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1047–9, discussion 1051–3. Comment on: Am J Hypertens 1996 Jul;9(7):695–9.

What, if anything, is controversial about calcium antagonists? Messerli FH. **Am J Hypertens** 1996 Dec;9(12 Pt 2):177S–181S (24 ref.)

Calcium channel blockers and cancer: due to loss of immune surveillance? [letter; comment] Moslen MT, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1050–1, discussion 1051–3. Comment on: Am J Hypertens 1996 Jul;9(7):695–9.

Calcium channel blockers for hypertension: dissecting the evidence for adverse effects. Opie LH. **Am J Hypertens** 1997 May;10(5 Pt 1):565–77 (84 ref.)

Do calcium channel blockers increase the risk of cancer? [see comments] Pahor M, et al. **Am J Hypertens** 1996 Jul; 9(7):695–9. Comment in: Am J Hypertens 1996 Oct;9(10 Pt 1):1045–6; discussion 1051–3. Comment in: Am J Hypertens 1996 Oct;9(10 Pt 1):1046–7; discussion 1051–3. Comment in: Am J Hypertens 1996 Oct;9(10 Pt 1):1047–9; discussion 1051–3. Comment in: Am J Hypertens 1996 Oct;9(10 Pt 1):1049–50; discussion 1051–3. Comment in: Am J Hypertens 1996 Oct;9(10 Pt 1):1050–1; discussion 1051–3. Comment in: Am J Hypertens 1997 Jan;10(1):141.

ALLHAT and calcium channel blockers. ALLHAT Research Group [letter; comment] Proschan M, et al. **Am J Hypertens** 1997 Jan;10(1):142–3. Comment on: Am J Hypertens 1996 Apr;9(4 Pt 1):342–60.

Comments on the study by Pahor et al. STEPHY Investigators [letter; comment] Trenkwalder P. **Am J Hypertens** 1997 Jan;10(1):141. Comment on: Am J Hypertens 1996 Jul;9(7):695–9.

Questioning the study size in Pahor et al [letter; comment] Zimlichman R. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1046–7, discussion 1051–3. Comment on: Am J Hypertens 1996 Jul;9(7):695–9.

Myocardial infarction in newly diagnosed hypertensive Medicaid patients free of coronary heart disease and treated with calcium channel blockers [see comments] Leader SG, et al. **Am J Med** 1997 Feb;102(2):150–7. Comment in: Am J Med 1997 Feb;102(2):147–9.

Haemodynamic effects of intravenous nimodipine following aneurysmal subarachnoid haemorrhage: implications for monitoring. Radhakrishnan D, et al. **Anaesthesia** 1997 May; 52(5):489–91

Acute asthma associated with sustained–release verapamil. Ben–Noun L. **Ann Pharmacother** 1997 May;31(5):593–5

Nifedipine–induced gingival overgrowth. Johnson RB. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):935

Amlodipine–induced acute intermittent porphyria exacerbation [letter] Kepple A, et al. **Ann Pharmacother** 1997 Feb;31(2):253

Nifedipine interaction with tacrolimus in liver transplant recipients. Seifeldin RA, et al. **Ann Pharmacother** 1997 May;31(5):571–5

Possible roles of medullasin in nifedipine–induced human gingival overgrowth. Kunimatsu K, et al. **Arch Oral Biol** 1996 Jan;41(1):111–5

Hypertension medication and periodontosis [letter] Bowell GR. **Aust Dent J** 1997 Apr;42(2):140

Effects of calcium antagonists on the risks of coronary heart disease, cancer and bleeding. Ad hoc subcommittee of the Liaison Committee of the World Health Organisation and the International Society of Hypertension. **Blood Press** 1997 May;6(3):134–46 (81 ref.)

Cardiac conduction with diltiazem and beta–blockade combined. A review and report on cases. Kjeldsen SE, et al. **Blood Press** 1996 Sep;5(5):260–3 (29 ref.)

Renal effects of calcium antagonists with special reference to manidipine hydrochloride. Rodicio JL. **Blood Press Suppl** 1996;5:10–5 (36 ref.)

Evidence for the risk of calcium channel blockers in hypertension was selective [letter] Hanna FW, et al. **BMJ** 1996 Nov 16;313(7067):1259–60

Generalised pruritus associated with amlodipine. Orme S, et al. **BMJ** 1997 Aug 23;315(7106):463

Use of calcium antagonists and need for perioperative transfusion in older patients with hip fracture: observational study. Zuccalá G, et al. **BMJ** 1997 Mar 1;314(7081):643–4

Calcium antagonists: never let the truth get in the way of a good story [editorial] Jackson G. **Br J Clin Pract** 1996 Sep;50(6):291–3

Calcium antagonist–induced photo–exposed telangiectasia [letter] Basarab T, et al. **Br J Dermatol** 1997 Jun; 136(6):974–5

Which one of the following antihypertensive medications is the least appropriate choice for patients with diabetic nephropathy. Nifedipine (e.g., Adalat) is the least appropriate choice for patients with diabetic nephropathy. **Can Fam Physician** 1997 Sep;43:1515, 1522

"Drug may have caused huge number of deaths": lessons learned during an encounter with The Fifth Estate [editorial] Myers MG. **Can Med Assoc J** 1996 Sep 15; 155(6):772–5

Controversies concerning calcium antagonists [editorial] Lichtlen PR. **Cardiovasc Drugs Ther** 1996 Sep;10(4):409–12

Both a calcium antagonist and ACE inhibitor reverse hypertrophy in hypertension but a calcium antagonist also depresses contractility. Sumimoto T, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):27–32

New developments in the calcium channel antagonist controversy [letter; comment] Opie LH. **Circulation** 1997 Mar 18;95(6):1668–70. Comment on: Circulation 1995 Sep 1;92(5):1068–73. Comment on: Circulation 1995 Sep 1;92(5):1326–31. Comment on: Circulation 1996 Apr 1;93(7):1475–6.

Hyperprolactinaemia and verapamil: prevalence and potential association with hypogonadism in men. Romeo JH, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):571–5

Evaluating the safety of mibefradil, a selective T–type calcium antagonist, in patients with chronic congestive heart failure. van der Vring JA, et al. **Clin Ther** 1996 Nov–Dec;18(6):1191–206

Calcium–channel blockers in ischemic heart disease. Silvestry FE, et al. **Curr Opin Cardiol** 1996 Jul;11(4):434–9 (45 ref.)

1995: the year of the calcium antagonist controversy. Cohen JD. **Curr Opin Nephrol Hypertens** 1996 May;5(3):214–8 (34 ref.)

A comparative review of the adverse effects of calcium antagonists. Dougall HT, et al. **Drug Saf** 1996 Aug; 15(2):91–106 (175 ref.)

Drug–induced movement disorders. Jiménez–Jiménez FJ, et al. **Drug Saf** 1997 Mar;16(3):180–204 (643 ref.)

The unnecessary controversy or lack of knowledge? [letter; comment] Fischer–Hansen J. **Eur Heart J** 1997 Jan; 18(1):167–8. Comment on: Eur Heart J 1996 Aug;17(8):1142–7.

Calcium channel blockers and gastrointestinal hemorrhage: more bad press? Grimm I, et al. **Gastroenterology** 1996 Nov; 111(5):1391–3

Calcium channel blockers and hypertension: 2. Safety issues. Epstein M. **Hosp Pract (Off Ed)** 1996 Dec 15;31(12):93–6, 99–104 (23 ref.)

Subacute cutaneous lupus erythematosus arising in the setting of calcium channel blocker therapy. Crowson AN, et al. **Hum Pathol** 1997 Jan;28(1):67–73

A challenge to the concept that the use of calcium channel blockers causes reversible male infertility. Katsoff D, et al. **Hum Reprod** 1997 Jul;12(7):1480–2

Effects of calcium antagonists on the risks of coronary heart disease, cancer and bleeding. Ad Hoc Subcommittee of the Liaison Committee of the World Health Organisation and the International Society of Hypertension. **Hypertens Res** 1997 Jun;20(2):61–73 (81 ref.)

Effects of nifedipine and enalapril on cardiac autonomic nervous function during the tilt test in elderly patients with hypertension. Okabayashi J, et al. **Hypertens Res** 1997 Mar; 20(1):1–6

Cancer risk in users of calcium channel blockers. Olsen JH, et al. **Hypertension** 1997 May;29(5):1091–4

Clinical approaches to male infertility with a case report of possible nifedipine–induced sperm dysfunction. Enders G. **J Am Board Fam Pract** 1997 Mar–Apr;10(2):131–6 (27 ref.)

Verapamil accelerates the transition to heart failure in obese, hypertensive, female SHHF/Mcc–fa(cp) rats. Park S, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):726–33

Evaluation of gingival and periodontal conditions following causal periodontal treatment in patients treated with nifedipine and diltiazem. Bullon P, et al. **J Clin Periodontol** 1996 Jul;23(7):649–57

Combined treatment approach to gingival overgrowth due to drug therapy. Darbar UR, et al. **J Clin Periodontol** 1996 Oct;23(10):941–4

Determinants of gingival overgrowth severity in organ transplant patients. An examination of the rôle of HLA phenotype. Thomason JM, et al. **J Clin Periodontol** 1996 Jul;23(7):628–34

Safety and efficacy of monotherapy with fantofarone, a novel calcium channel antagonist, in patients with chronic stable angina pectoris. Fantofarone Study Group. Glasser SP, et al. **J Clin Pharmacol** 1997 Jan;37(1):53–7

Vascular events during antihypertensive treatment. Madren EM. **J Fam Pract** 1996 Dec;43(6):534

Effects of calcium antagonists on the risks of coronary heart disease, cancer and bleeding. Ad Hoc Subcommittee of the Liaison Committee of the World Health Organisation and the International Society of Hypertension. **J Hum Hypertens** 1997 Jun;11(6):331–42 (81 ref.)

Calcium channel blockers and cardiac mortality in the treatment of hypertension: a report from the Department of Health Hypertension Care Computing Project (DHCCP). Bulpitt CJ, et al. **J Hum Hypertens** 1997 Apr; 11(4):205–11

Calcium channel blockers in the dock: innocent or guilty? Mackay JA, et al. **J Hum Hypertens** 1996 May;10(5):277–80

Safety profile of the combination of verapamil and trandolapril. Holzgreve H. **J Hypertens Suppl** 1997 Mar; 15(2):S51–3 (4 ref.)

Calcium channel antagonists revisited [editorial] Birbari AE. **J Med Liban** 1996;44(2):59

More on calcium channel blockers in nephrology [editorial] Pahor M, et al. **J Nephrol** 1997 Mar–Apr;10(2):65; discussion 66–7

Site–specific variations in metabolism by human fibroblasts exposed to nifedipine in vitro. Henderson JS, et al. **J Oral Pathol Med** 1997 Jan;26(1):6–10

Cyclosporin– and nifedipine–induced gingival overgrowth in renal transplant patients: correlations with periodontal and pharmacological parameters, and HLA–antigens. Margiotta V, et al. **J Oral Pathol Med** 1996 Mar; 25(3):128–34

Immunohistochemical localization of transforming growth factor beta, basic fibroblast growth factor and heparan sulphate glycosaminoglycan in gingival hyperplasia induced by nifedipine and phenytoin. Saito K, et al. **J Periodontal Res** 1996 Nov;31(8):545–55

The effect of verapamil on the prevalence and severity of cyclosporine–induced gingival overgrowth in renal allograft recipients. Cebeci I, et al. **J Periodontol** 1996 Nov; 67(11):1201–5

Prevalence of amlodipine–related gingival hyperplasia. Jorgensen MG. **J Periodontol** 1997 Jul;68(7):676–8

Regression of nifedipine–induced gingival hyperplasia following switch to a same class calcium channel blocker, isradipine. Westbrook P, et al. **J Periodontol** 1997 Jul; 68(7):645–50

Exfoliative dermatitis associated with diltiazem. Odeh M. **J Toxicol Clin Toxicol** 1997;35(1):101–4 (19 ref.)

Effect of long–acting and short–acting calcium antagonists on cardiovascular outcomes in hypertensive patients [see comments] Alderman MH, et al. **Lancet** 1997 Mar 1; 349(9052):594–8. Comment in: Lancet 1997 Mar 1;349(9052):585–6.

Calcium–channel blockers and cancer [letter; comment] Brown M. **Lancet** 1996 Oct 26;348(9035):1166; discussion 1167. Comment on: Lancet 1996 Aug 24;348(9026):487. Comment on: Lancet 1996 Aug 24;348(9026):493–7.

Calcium–channel blockers and cancer [letter; comment] Elliott HL, et al. **Lancet** 1996 Oct 26;348(9035):1165–6; discussion 1167. Comment on: Lancet 1996 Aug 24;348(9026):487.

Calcium–channel blockers and risk of cancer. Jick H, et al. **Lancet** 1997 Feb 22;349(9051):525–8

Calcium–channel blockers and risk of cancer [letter; comment] Jick H. **Lancet** 1997 Jun 7;349(9066):1699–700. Comment on: Lancet 1997 May 10;349(9062):1400.

Calcium–channel blockers and risk of cancer [letter] [see comments] Kritchevsky SB, et al. **Lancet** 1997 May 10; 349(9062):1400. Comment in: Lancet 1997 Jun 7;349(9066):1699–700.

Calcium–antagonist controversy: the long and short of it? [comment] McMurray J, et al. **Lancet** 1997 Mar 1; 349(9052):585–6. Comment on: Lancet 1997 Mar 1;349(9052):594–8.

Calcium–channel blockers and cancer [letter; comment] Mann SJ. **Lancet** 1996 Oct 26;348(9035):1165; discussion 1167. Comment on: Lancet 1996 Aug 24;348(9026):493–7.

Calcium–channel blockers and cancer [letter; comment] Oliver S. **Lancet** 1996 Oct 26;348(9035):1165; discussion 1167. Comment on: Lancet 1996 Aug 24;348(9026):493–7.

Calcium–channel blockers and cancer. Starnberg Study on Epidemiology of Parkinsonism and Hypertension in the Elderly [letter; comment] Trenkwalder P. **Lancet** 1996 Oct 26;348(9035):1167–8. Comment on: Lancet 1996 Aug 24;348(9026):493–7.

Safety of calcium–channel blockers [published erratum appears in Med Lett Drugs Ther 1997 Mar 14;39(996):28] **Med Lett Drugs Ther** 1997 Feb 14;39(994):13–4

A long–term follow–up study of cinnarizine– and flunarizine–induced parkinsonism. Negrotti A, et al. **Mov Disord** 1997 Jan;12(1):107–10

Surgical treatment of nifedipine–induced gingival hyperplasia. A case report [see comments] Abitbol TE, et al. **N Y State Dent J** 1996 Aug–Sep;62(7):34–7 (24 ref.). Comment in: N Y State Dent J 1996 Dec;62(10):13.

Alternative protocol [letter; comment] Frieman J. **N Y State Dent J** 1996 Dec;62(10):13. Comment on: N Y State Dent J 1996 Aug–Sep;62(7):34–7.

Gingival hyperplasia: interaction between cyclosporin A and nifedipine? A case report. Jackson C, et al. **N Y State Dent J** 1997 Jan;63(1):46–8

Reduced proteinuria after cessation of long–acting, osmotic release nifedipine GITS in diabetic nephropathy [letter] Hess B. **Nephrol Dial Transplant** 1997 Aug;12(8):1772–3

Analysis of the risks associated with calcium channel blockade: implications for the obstetrician–gynecologist. Davis WB, et al. **Obstet Gynecol Surv** 1997 Mar; 52(3):198–201 (18 ref.)

Use of nimodipine is safe [letter; comment] Heininger K, et al. **Stroke** 1996 Oct;27(10):1911–3. Comment on: Stroke 1996 Apr;27(4):593–8.

Is nimodipine in cardiac surgery really so bad? [letter; comment] Manrique R, et al. **Stroke** 1997 Jun;28(6):1291 . Comment on: Stroke 1996 Apr;27(4):593–8.

Calcium channel blockers, risk of cancer, and the challenge

of assessing medication safety. Pahor M. **Tenn Med** 1997 Sep;90(9):367–9 (27 ref.)

Relationship between plasma perhexiline concentration and symptomatic status during short-term perhexiline therapy. Stewart S, et al. **Ther Drug Monit** 1996 Dec;18(6):635–9

Bilateral reduction mammoplasty in a patient treated with calcium channel blocker and cyclosporine after renal transplant: a case report. Pan Y, et al. **Transplantation** 1997 Apr 15;63(7):1032–3

[Paradoxal insomnia induced by flunarizine (letter)] Pradalier A, et al. **Therapie** 1997 Jan–Feb;52(1):81–2 **(Fre)**

[Calcium blockers and cancer—is there any link between them?] Zimlichman R, et al. **Harefuah** 1997 Jun 15; 132(12):876–8 (4 ref.) **(Heb)**

[Extracardiovascular toxic effects of drugs used in cardiology] Zennaro RG. **Cardiologia** 1995 Dec;40(12 Suppl 1):99–104 **(Ita)**

[A case of acute nimodipine poisoning. Cardiac and vascular effects] De Sio A, et al. **Minerva Anestesiol** 1995 Jul–Aug; 61(7–8):335–8 (Eng. Abstr.) **(Ita)**

[Studies on residual cardiovascular dysfunction in patients receiving long-term antihypertensive treatment of calcium channel blockers: with special reference to left ventricular hypertrophy, and impairments of left ventricular diastolic function and carotid arterial distensibility] Shiojima K, et al. **J Cardiol** 1997 Aug;30(2):73–8 (Eng. Abstr.) **(Jpn)**

[Effects of photodegradation of nifedipine on dog erythrocyte membranes] Hayase N, et al. **Yakugaku Zasshi** 1997 Apr;117(4):202–10 (Eng. Abstr.) **(Jpn)**

[Calcium channel blockers in heart failure] Hole T, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2329–32 (45 ref.) (Eng. Abstr.) **(Nor)**

[Calcium antagonists and safety (letter)] Thelle D. **Tidsskr Nor Laegeforen** 1997 Apr 10;117(9):1334 **(Nor)**

[The discussion heating up on the lack of safety in using calcium antagonists and in particular the dihydropyridine derivative nifedipine (editorial; comment)] **Ter Arkh** 1996; 68(9):5–7. Comment on: Ter Arkh 1996;68(9):18–9. Comment on: Ter Arkh 1996;68(9):31–5. **(Rus)**

[Gingival hyperplasia associated with amlodipine] Infante Cossío P, et al. **An Med Interna** 1997 Feb;14(2):83–5 (Eng. Abstr.) **(Spa)**

[Drug-related motor disorders in aged people] Martí-Massó JF. **Rev Neurol** 1997 Jul;25 Suppl 1:S37–43 (35 ref.) **(Spa)**

[Drugs and risk of cancer should be taken seriously (letter)] Hardell L, et al. **Lakartidningen** 1996 Oct 30;93(44):3886 **(Swe)**

[Cancer risks and lacidipine—an explanation (letter)] Lindholm LH. **Lakartidningen** 1996 Oct 23;93(43):3770 **(Swe)**

[Increased risk of cancer following calcium antagonists is not proved (letter; comment)] Midtbø K. **Lakartidningen** 1996 Oct 16;93(42):3662, 3665. Comment on: Lakartidningen 1996 Aug 7;93(32–33):2757. **(Swe)**

ANALYSIS

Determination of the calcium antagonist SIM6080 and its N- and O-demethylated metabolites in plasma, urine and tissues by high-performance liquid chromatography. Castelnovo P. **J Chromatogr B Biomed Appl** 1996 Feb 9; 676(1):77–85

Enantiomer separation of dihydropyridine calcium antagonists with cyclodextrins as chiral selectors: structural correlation. Gilar M, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):133–41

Quantitation of diltiazem in human cardiac tissue using high-performance liquid chromatography. Läer S, et al. **J Chromatogr Sci** 1997 Mar;35(3):93–6

Determination of the dihydropyridine aryloxypropanolamine Z6568 and its acidic metabolites in plasma, urine and tissues by solid phase extraction and liquid chromatography/negative-ion mass spectrometry. Gregori M, et al. **J Mass Spectrom** 1996 Sep;31(9):994–1002

Development and validation of a liquid chromatographic method for the determination of related substances in verapamil hydrochloride. Valvo L, et al. **J Pharm Biomed Anal** 1997 Apr;15(7):989–96

Development and characterization of nifedipine lipospheres. Vyas SP, et al. **Pharmazie** 1997 May;52(5):403–4

BLOOD

Determination of nifedipine in serum by HPLC. Goldnik A, et al. **Acta Pol Pharm** 1996 Jan–Feb;53(1):7–8

Plasma concentrations of diltiazem and desacetyldiltiazem in an overdose situation. Williamson KM, et al. **Ann Pharmacother** 1996 Jun;30(6):608–11

Clinical evaluation of serum amlodipine level in patients with angina pectoris. Watanabe K, et al. **Gen Pharmacol** 1996 Mar;27(2):205–9

Automated determination of verapamil and norverapamil in human plasma with on-line coupling of dialysis to high-performance liquid chromatography and fluorometric detection. Ceccato A, et al. **J Chromatogr A** 1996 Oct 25; 750(1–2):351–60

High-performance liquid chromatographic assay for diltiazem in small-volume blood specimens and application to pharmacokinetic studies in rats. Scully P, et al. **J Chromatogr A** 1996 Apr 5;729(1–2):297–300

Simultaneous determination of verapamil and norverapamil in biological samples by high-performance liquid chromatography using ultraviolet detection. Garcia MA, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6; 693(2):377–82

Sensitive high-performance liquid chromatographic determination of nifedipine in dog plasma using an automated sample preparation system with laboratory robot. Horváth V, et al. **J Chromatogr B Biomed Appl** 1996 Nov 15;686(2):211–9

Simultaneous determination of a novel calcium entry blocker, monatepil maleate, and its metabolites in rat plasma by means of solid-phase extraction and reversed-phase liquid chromatography with electrochemical detection. Kurono M, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21; 689(2):427–32

Liquid chromatographic determination of manidipine in serum with electrochemical detection. Ohkubo T, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):413–8

Quantitative determination of amlodipine in serum by liquid chromatography with atmospheric pressure chemical ionization tandem mass spectrometry. Yasuda T, et al. **J Mass Spectrom** 1996 Aug;31(8):879–84

Internally standardized simultaneous assay of gallopamil enantiomers in human plasma by means of high performance liquid chromatography. Kern R. **Methods Find Exp Clin Pharmacol** 1996 May;18(4):279–85

Clinical effectiveness of lamotrigine and plasma levels in essential and symptomatic trigeminal neuralgia. Lunardi G, et al. **Neurology** 1997 Jun;48(6):1714–7

Analysis of diltiazem and desacetyldiltiazem in serum by high-performance liquid chromatography. Pączkowski D, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):429–34

Characteristics of serum protein binding of felodipine. Valle M, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct; 94(1):73–88

Relationship between plasma perhexiline concentration and symptomatic status during short-term perhexiline therapy. Stewart S, et al. **Ther Drug Monit** 1996 Dec;18(6):635–9

CHEMICAL SYNTHESIS

Synthesis and smooth muscle calcium channel effects of dialkyl 1,4-dihydro-2,6-dimethyl-4-aryl-3,5-pyridinedicarboxylates containing a nitrone moiety in the 4-aryl substituent. Anana RD, et al. **Arch Pharm (Weinheim)** 1997 Mar;330(3):53–8

Synthesis and smooth muscle calcium channel antagonist effects of alkyl 1,4-dihydro-2,6-dimethyl-4-(pyridinyl)-5-[2-(4,5-dihydro-4,4-dimethyloxazolin-2-yl)]-3-pyridinecarboxylates. Anana RD, et al. **Arch Pharm (Weinheim)** 1996 Aug–Sep; 329(8–9):408–12

Syntheses, calcium channel antagonist and anticonvulsant activities of substituted 1,4-dihydro-3,5-pyridinedicarboxylates containing various 3-alkyl ester substituents. Yiu SH, et al. **Arch Pharm (Weinheim)** 1997 Jan–Feb;330(1–2):35–43

3-Acetyl-4-aryl-5-oxo-2,7,7-trimethyl-1,4,5,6,7,8-hexahydro-quinoline derivatives and their calcium antagonistic activities. Safak C, et al. **Arzneimittelforschung** 1995 Nov;45(11):1154–6

Synthesis of two optically active calcium channel antagonists labelled with carbon-11 for in vivo cardiac PET imaging. Dollé F, et al. **Bioorg Med Chem** 1997 Apr;5(4):749–64

New thiazolo[3,2-a] pyrimidine derivatives, synthesis and calcium antagonistic activities. Balkan A, et al. **Boll Chim Farm** 1996 Dec;135(11):648–52

Novel monoacetoneglucose derivatives with calcium antagonist activity. Bécaert T, et al. **Boll Chim Farm** 1996 Mar;135(3):204–7

One pot synthesis of some new substituted hexahydro 2H-1,3-benzoxazine derivatives. Safak C, et al. **Boll Chim Farm** 1996 Sep;135(8):482–5

Synthesis, biological evaluation, calcium channel antagonist activity, and anticonvulsant activity of felodipine coupled to a dihydropyridine-pyridinium salt redox chemical delivery system. Yiu S, et al. **J Med Chem** 1996 Nov 8; 39(23):4576–82

Synthesis and biological characterization of a series of analogues of omega-conotoxin GVIA. Flinn JP, et al. **J Pept Sci** 1995 Nov–Dec;1(6):379–84

Solid-phase synthesis of omega-agatoxin IVA, a P-type calcium channel blocker. Najib J, et al. **J Pept Sci** 1996 Sep–Oct;2(5):309–17

Efficient syntheses of polyamine and polyamine amide voltage-sensitive calcium channel blockers: FTX-3.3 and sFTX-3.3. Moya E, et al. **J Pharm Pharmacol** 1996 Feb; 48(2):179–82

Relationship between the structure of some 1,4-piperazine derivatives of aryloxyaminopropanos and their Ca-antagonistic activity. Celková H, et al. **Pharmazie** 1997 Jun;52(6):487–8

[New intracellular calcium antagonists. I. Synthesis and pharmacological evaluation of 2,3,4,5-tetrahydro-1,5-benzothiazepine analogs] Ueyama N, et al. **Yakugaku Zasshi** 1996 Feb;116(2):106–24 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Inclusion complexes of nifedipine and other 1.4-dihydropyridine derivatives with cyclodextrins. IV. The UV study on photochemical stability of the inclusion complexes of nisoldipine, nimodipine, nitrendipine and nicardipine with beta-cyclodextrin in the solution. Mielcarek J. **Acta Pol Pharm** 1995 Nov–Dec;52(6):459–63

Stability of labetalol hydrochloride, metoprolol tartrate, verapamil hydrochloride, and spironolactone with hydrochlorothiazide in extemporaneously compounded oral liquids. Allen LV Jr, et al. **Am J Health Syst Pharm** 1996 Oct 1;53(19):2304–9

Stability of nicardipine hydrochloride in intravenous solutions. Baaske DM, et al. **Am J Health Syst Pharm** 1996 Jul 15;53(14):1701–5

Circular dichroism spectra of calcium channel antagonist omega-conotoxins. Kim JI, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):133–5

Folding of omega-conotoxins. 1. Efficient disulfide-coupled folding of mature sequences in vitro. Price-Carter M, et al. **Biochemistry** 1996 Dec 3;35(48):15537–46

Effect of polyethyleneglycol 4000 (PEG4000) solution on the in vitro release profile of nifedipine from polymer matrices. Ofoefule SI. **Biol Pharm Bull** 1997 May; 20(5):574–6

1,4-Dihydropyridines bearing a pharmacophoric fragment of lidoflazine. Chiarini A, et al. **Bioorg Med Chem** 1996 Oct; 4(10):1629–35

Method development in liquid chromatography with a charged cyclodextrin additive for chiral resolution of rac-amlodipine utilising a central composite design. Owens PK, et al. **Chirality** 1996;8(7):466–76

Binding of chimeric analogs of omega-conotoxin MVIIA and MVIIC to the N- and P/Q-type calcium channels. Sato K, et al. **FEBS Lett** 1997 Sep 8;414(2):480–4

Two amino acid residues in the IIIS5 segment of L-type calcium channels differentially contribute to 1,4-dihydropyridine sensitivity. Mitterdorfer J, et al. **J Biol Chem** 1996 Nov 29;271(48):30330–5

GA strategy for variable selection in QSAR studies: GA-based PLS analysis of calcium channel antagonists. Hasegawa K, et al. **J Chem Inf Comput Sci** 1997 Mar–Apr; 37(2):306–10

Enantiomer separation of dihydropyridine calcium antagonists with cyclodextrins as chiral selectors: structural correlation. Gilar M, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):133–41

Diltiazem-like calcium entry blockers: a hypothesis of the receptor-binding site based on a comparative molecular field analysis model. Corelli F, et al. **J Med Chem** 1997 Jan 3;40(1):125–31

Head group analogs of arachidonylethanolamide, the endogenous cannabinoid ligand. Khanolkar AD, et al. **J Med Chem** 1996 Oct 25;39(22):4515–9

Solid-phase synthesis of omega-agatoxin IVA, a P-type calcium channel blocker. Najib J, et al. **J Pept Sci** 1996 Sep–Oct;2(5):309–17

Binary system of (R)- and (S)-nitrendipine—polymorphism and structure. Burger A, et al. **J Pharm Sci** 1997 Jun; 86(6):674–9

X-ray structural studies of lomeridine dihydrochloride polymorphs. Hiramatsu Y, et al. **J Pharm Sci** 1996 Jul; 85(7):761–6

Identification of binding sites for calcium channel antagonists. Nakayama H, et al. **Jpn Heart J** 1996 Sep;37(5):643–50 (22 ref.)

Effect of oil phase composition on the skin permeation of felodipine from o/w microemulsions. Trotta M, et al. **Pharmazie** 1997 Jan;52(1):50–3

CLASSIFICATION

Third generation calcium antagonists [letter; comment] Purcell H. **Blood Press** 1996 Sep;5(5):319. Comment on: Blood Press 1996 Jul;5(4):206–8.

How safe are calcium channel antagonists [editorial] Birbari AE. **J Med Liban** 1995;43(3):120–1

CONTRAINDICATIONS

[Restrictions on the use of short-term action nifedipine in the United States. A review of facts] Fuchs FD. **Arq Bras Cardiol** 1996 Oct;67(4):267–9 (19 ref.) **(Por)**

DIAGNOSTIC USE

Screening for cytochrome P450 3A in man: studies with midazolam and nifedipine. Yeates RA, et al. **J Pharm Pharmacol** 1996 Sep;48(9):933–4

ECONOMICS

Cost containment for treating hypertension in African Americans: impact of a combined ACE inhibitor-calcium channel blocker. Kountz DS. **J Natl Med Assoc** 1997 Jul; 89(7):457–60

[Money, hypertension and calcium antagonists (letter; comment)] Hernborg A. **Lakartidningen** 1996 Sep 25; 93(39):3348. Comment on: Lakartidningen 1996 Aug 28;93(35):2918. **(Swe)**

ISOLATION & PURIFICATION

Method development in liquid chromatography with a charged cyclodextrin additive for chiral resolution of rac-amlodipine utilising a central composite design. Owens PK, et al. **Chirality** 1996;8(7):466–76

Isocratic high-performance liquid chromatographic method

for the separation of isradipine and its main metabolites. Application to in vitro metabolization by h3A4/OR cells. Bidouil S, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):359–66

Semi-preparative chromatographic purification of the enantiomers S-(–)-amlodipine and R-(+)-amlodipine. Luksa J, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6; 693(2):367–75

Purification of a new dimeric protein from Cliona vastifica sponge, which specifically blocks a non-L-type calcium channel in mouse duodenal myocytes. Morel JL, et al. **Mol Pharmacol** 1997 Jun;51(6):1042–52

METABOLISM

Action and binding of calcium channel blockers on the putative calcium channel of synaptosomal plasma membrane from the electric organ of Narke japonica. Tokumaru H, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:410–2

FS2. a mamba venom toxin, is a specific blocker of the L-type calcium channels. Yasuda O, et al. **Artery** 1994; 21(5):287–302

Drug–drug interactions: effect of quinidine on nifedipine binding to human cytochrome P450 3A4. Koley AP, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):455–60

Block of P/Q-type calcium channels by therapeutic concentrations of aminoglycoside antibiotics. Pichler M, et al. **Biochemistry** 1996 Nov 19;35(46):14659–64

Oxidative metabolism of flunarizine and cinnarizine by microsomes from B-lymphoblastoid cell lines expressing human cytochrome P450 enzymes. Kariya S, et al. **Biol Pharm Bull** 1996 Nov;19(11):1511–4

Slow dissociation of long-acting Ca2+ antagonist amlodipine from 3H-PN200-110 binding sites in membranes of rat hearts and brains. Sugiyama K, et al. **Biol Pharm Bull** 1996 Feb;19(2):195–8

I.v. anaesthetic agents inhibit dihydropyridine binding to L-type voltage-sensitive Ca2+ channels in rat cerebrocortical membranes [see comments] Hirota K, et al. **Br J Anaesth** 1996 Aug;77(2):248–53. Comment in: Br J Anaesth 1997 Apr;78(4):481–2.

I.v. anaesthetic agents do not interact with the verapamil binding site on L-type voltage-sensitive Ca2+ channels. Hirota K, et al. **Br J Anaesth** 1996 Sep;77(3):385–6

The effect of oxygen free radicals on calcium current and dihydropyridine binding sites in guinea-pig ventricular myocytes. Guerra L, et al. **Br J Pharmacol** 1996 Jul; 118(5):1278–84

Gating of the skeletal calcium release channel by ATP is inhibited by protein phosphatase 1 but not by Mg2+. Sonnleitner A, et al. **Cell Calcium** 1997 Apr;21(4):283–90

Investigation of nifedipine absorption in different regions of the human gastrointestinal (GI) tract after simultaneous administration of 13C- and 12C-nifedipine. Bode H, et al. **Eur J Clin Pharmacol** 1996;50(3):195–201

Effects of anandamide and arachidonic acid on specific binding of (+) -PN200-110, diltiazem and (–) -desmethoxyverapamil to L-type Ca2+ channel. Shimasue K, et al. **Eur J Pharmacol** 1996 Feb 5;296(3):347–50

Binding of chimeric analogs of omega-conotoxin MVIIA and MVIIC to the N- and P/Q-type calcium channels. Sato K, et al. **FEBS Lett** 1997 Sep 8;414(2):480–4

N-type calcium channel blockers from a marine bacterium, Cytophaga sp. SANK 71996. Morishita T, et al. **J Antibiot (Tokyo)** 1997 Jun;50(6):457–68

Interaction of lacidipine with its receptor binding site supports a slow onset and long duration of action. Graziani F, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):290–6

Dihydropyridine and ryanodine binding in ventricles from rat, trout, dogfish and hagfish. Thomas MJ, et al. **J Exp Biol** 1996 Sep;199 (Pt 9):1999–2009

Characterization of the high-affinity verapamil binding site in a plant plasma membrane Ca2+-selective channel. Piñeros M, et al. **J Membr Biol** 1997 May 15;157(2):139–45

Enantioselective protein binding of semotiadil and levosemotiadil determined by high-performance frontal analysis. Rodriguez Rosas ME, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1595–601

Age-related changes in [3H]nimodipine and [3H]rolipram binding in the rat brain. Araki T, et al. **J Pharm Pharmacol** 1997 Mar;49(3):310–4

Age-dependent alteration of the serum-unbound fraction of nicardipine, a calcium-channel blocker, in man. Sugioka N, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1327–31

High-affinity binding of DTZ323, a novel derivative of diltiazem, to rabbit skeletal muscle L-type Ca++ channels. Hagiwara M, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):173–9

Role of CYP3A4 in human hepatic diltiazem N-demethylation: inhibition of CYP3A4 activity by oxidized diltiazem metabolites. Sutton D, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):294–300

Identification of binding sites for calcium channel antagonists. Nakayama H, et al. **Jpn Heart J** 1996 Sep;37(5):643–50 (22 ref.)

Influence of glycosylation inhibitors on dihydropyridine binding to cardiac cells. Henning U, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:47–52

Inhibition of the T-type Ca2+ current by the dopamine D1 receptor in rat adrenal glomerulosa cells: requirement of the combined action of the G betagamma protein subunit and cyclic adenosine 3',5'-monophosphate. Drolet P, et al. **Mol Endocrinol** 1997 Apr;11(4):503–14

Subunit composition is a major determinant in high affinity binding of a Ca2+ channel blocker. Suh-Kim H, et al. **Mol Pharmacol** 1996 Nov;50(5):1330–7

Cytochromes of the P450 2C subfamily are the major enzymes involved in the O-demethylation of verapamil in humans. Busse D, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):116–21

Characterization of a voltage-dependent L-type calcium channel from rabbit and turtle brain. Costa B, et al. **Neurochem Res** 1996 May;21(5):537–40

Binding and labeling of omega-conotoxin GVIA in crude membranes from subfractionated fractions and various areas of chick brain. Ichida S, et al. **Neurochem Res** 1996 Jun;21(6):675–80

Deacetylation of diltiazem by several rabbit tissues. Fraile LJ, et al. **Pharm Res** 1996 Dec;13(12):1875–80

Mechanisms of T-type calcium channel blockade by zonisamide. Kito M, et al. **Seizure** 1996 Jun;5(2):115–9

Metabolism of barnidipine hydrochloride, a potent calcium antagonist, in rat and dog. Teramura T, et al. **Xenobiotica** 1996 Feb;26(2):177–87

Metabolism of the calcium antagonist, mibefradil (POSICOR, Ro 40-5967). Part II. Metabolism in hepatic microsomes from rat, marmoset, cynomolgus monkey, rabbit and man. Wiltshire HR, et al. **Xenobiotica** 1997 Jun;27(6):539–56

PHARMACOKINETICS

The influence of selected general anesthetics on pharmacokinetic parameters of some antiarrhythmic drugs in rabbits. Part V. Verapamil. Orszulak-Michalak D. **Acta Pol Pharm** 1996 Jan–Feb;53(1):57–61

Trough-to-peak ratio of angiotensin converting enzyme inhibitors and calcium antagonists [letter; comment] Myers MG. **Am J Hypertens** 1997 May;10(5 Pt 1):580–2. Comment on: Am J Hypertens 1996 Jul;9(7):633–43.

Trough/peak ratios of once daily angiotensin converting enzyme inhibitors and calcium antagonists [see comments] [published erratum appears in Am J Hypertens 1997 Apr;10(4 Pt 1):482] Zannad F, et al. **Am J Hypertens** 1996 Jul;9(7):633–43. Comment in: Am J Hypertens 1997 May;10(5 Pt 1):580–2.

Nimodipine transfer into human breast milk and cerebrospinal fluid. Carcas AJ, et al. **Ann Pharmacother** 1996 Feb; 30(2):148–50

Interaction of some drugs on the pharmacokinetics or pharmacodynamics of MPC-1304, a dihydropyridine Ca2+ antagonist. Nakano M, et al. **Arch Int Pharmacodyn Ther** 1996 Mar–Apr;331(2):109–23

Pharmacokinetics of (+/–)-4-diethylamino-1,1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate. 4th communication: metabolism in rats and dogs. Hirota T, et al. **Arzneimittelforschung** 1997 Feb;47(2):175–81

Pharmacokinetics of (+/–)-4-diethylamino-1,1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate. 3rd communication: plasma concentrations of the unchanged drug and its deethylated metabolite in rats, dogs and monkeys. Nakamura A, et al. **Arzneimittelforschung** 1997 Feb; 47(2):169–74

Pharmacokinetics of (+/–)-4-diethylamino-1,1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate. 1st communication: absorption, distribution and excretion after single administration of 14C-labeled compound to rats and dogs. Nakamura A, et al. **Arzneimittelforschung** 1997 Feb; 47(2):151–9

Pharmacokinetics of (+/–)-4-diethylamino-1,1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate. 2nd communication: tissue levels and enzyme activity in rats after repeated administration, and placental and milk transfer after single administration. Nakamura A, et al. **Arzneimittelforschung** 1997 Feb;47(2):160–8

Stereo-selective calcium antagonistic and binding properties of the enantiomers of lemildipine in vascular tissue of pigs and dogs. Nakayama K, et al. **Arzneimittelforschung** 1996 Nov;46(11):1045–53

Comparison of binding of 3H-desmethoxyverapamil and 3H-mibefradil in vascular smooth muscle and heart membranes. Possible binding of mibefradil to a site distinct from the phenylalkylamine-binding site. Ratner EI, et al. **Arzneimittelforschung** 1996 Oct;46(10):953–5

Bioequivalence and relative bioavailability of a new diltiazem sustained release formulation. Scheiwe MW, et al. **Arzneimittelforschung** 1996 Oct;46(10):960–3

Critical assessment of calcium antagonists. Krum H. **Aust Fam Physician** 1997 Jul;26(7):841–5, 847–8 (46 ref.)

Comparative pharmacodynamics of eight calcium channel blocking agents in Japanese essential hypertensive patients. Shimada S, et al. **Biol Pharm Bull** 1996 Mar;19(3):430–7

Effects of erythromycin, clarithromycin and rokitamycin on nifedipine metabolism in rats. Tsuruta S, et al. **Biol Pharm Bull** 1997 Apr;20(4):411–6

Carbamazepine and L-type calcium channel inhibitors: a binding assay study. Ngan ET, et al. **Biol Psychiatry** 1996 Jun 1;39(11):979–81

Pharmacokinetics of the enantiomers of verapamil after intravenous and oral administration of racemic verapamil in a rat model. Bhatti MM, et al. **Biopharm Drug Dispos** 1997 Jul;18(5):387–96

Bioequivalence of two orally administered nicardipine products. Buice RG, et al. **Biopharm Drug Dispos** 1996 Aug; 17(6):471–80

The relative bioavailability of two marketed controlled release diltiazem dosage forms at steady state in healthy volunteers. Lippert CL, et al. **Biopharm Drug Dispos** 1996 Jan;17(1):43–53

Enantioselective distribution of verapamil and norverapamil into human and rat erythrocytes: the role of plasma protein binding. Robinson MA, et al. **Biopharm Drug Dispos** 1996 Oct;17(7):577–87

Prevention of amlodipine absorption by activated charcoal: effect of delay in charcoal administration. Laine K, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):29–33

Hemodynamic effects of intravenous elgodipine in coronary artery disease during rest and exercise, and basic pharmacokinetic parameters. Silke B, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):573–80

Bioequivalence of controlled-release calcium antagonists. Schall R, et al. **Clin Pharmacokinet** 1997 Jan;32(1):75–89 (47 ref.)

Itraconazole greatly increases plasma concentrations and effects of felodipine. Jalava KM, et al. **Clin Pharmacol Ther** 1997 Apr;61(4):410–5

Pharmacokinetics of SNX-111, a selective N-type calcium channel blocker, in rats and cynomolgus monkeys. Bowersox S, et al. **Drug Metab Dispos** 1997 Mar; 25(3):379–83

Enantioselective local disposition of semotiadil (R-enantiomer) and levosemotiadil (S-enantiomer) in perfused rat liver. Ueda K, et al. **Drug Metab Dispos** 1997 Mar;25(3):281–6

Effect of phenobarbital pretreatment on the pharmacokinetics and metabolism of diltiazem in rats. Yeung PK, et al. **Drug Metabol Drug Interact** 1996;13(1):29–39

Nisoldipine coat-core. A review of its pharmacology and therapeutic efficacy in hypertension. Plosker GL, et al. **Drugs** 1996 Aug;52(2):232–53 (112 ref.)

Effects of grapefruit juice ingestion--pharmacokinetics and haemodynamics of intravenously and orally administered felodipine in healthy men. Lundahl J, et al. **Eur J Clin Pharmacol** 1997;52(2):139–45

Pharmacokinetic interaction between cyclosporine and the dihydropyridine calcium antagonist felodipine [see comments] Madsen JK, et al. **Eur J Clin Pharmacol** 1996; 50(3):203–8. Comment in: Eur J Clin Pharmacol 1997;52(2):159, 161.

Pharmacokinetic-pharmacodynamic modelling as a tool to evaluate the clinical relevance of a drug-food interaction for a nisoldipine controlled-release dosage form. Schaefer HG, et al. **Eur J Clin Pharmacol** 1997;51(6):473–80

Comment on "Pharmacokinetic interaction between cyclosporine and the dihydropyridine calcium antagonist felodipine" [letter; comment] Yeleswaram K. **Eur J Clin Pharmacol** 1997;52(2):159, 161. Comment on: Eur J Clin Pharmacol 1996;50(3):203–8.

Comparative study of the biotransformation of bepridil analogs in isolated liver cells from one rat. Relationships between structure and in vitro liver toxicity. Damatte E, et al. **Eur J Drug Metab Pharmacokinet** 1996 Oct–Dec; 21(4):315–25

Pharmacokinetics of verapamil in overdose. Kivistö KT, et al. **Hum Exp Toxicol** 1997 Jan;16(1):35–7

In vitro percutaneous absorption of verapamil. Jain GK, et al. **Indian J Exp Biol** 1996 May;34(5):475–7

Higher AUCs on oral administration of omeprazole and felodipine in Indian volunteers--are they clinically important? Joseph T, et al. **Indian J Physiol Pharmacol** 1996 Jul;40(3):253–6

Multicenter studies on the pharmacokinetic profile of sustained-release oral diltiazem (300 mg) after once a day repeated administration: influence of age. Bianchetti G, et al. **Int J Clin Pharmacol Ther** 1996 May;34(5):195–201

Pantoprazole does not interact with nifedipine in man under steady-state conditions. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S81–5

Pantoprazole does not interact with nifedipine in man under steady-state conditions. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 Feb;34(2):51–5

Pharmacokinetics of the controlled-release nisoldipine coat-core tablet formulation. Heinig R, et al. **Int J Clin Pharmacol Ther** 1997 Aug;35(8):341–51

Pharmacokinetic and pharmacodynamic differences between nifedipine capsule and GITS formulations in hypertensive patients [letter] Isordia I, et al. **Int J Clin Pharmacol Ther** 1997 Mar;35(3):133

The influence of age on the pharmacokinetics of nimodipine. Mück W, et al. **Int J Clin Pharmacol Ther** 1996 Jul; 34(7):293–8

No interethnic differences in stereoselective disposition of oral nimodipine between Caucasian and Japanese subjects. Mück W, et al. **Int J Clin Pharmacol Ther** 1996 Apr; 34(4):163–71

Further elucidation of pharmacokinetic interaction between diltiazem and warfarin. Stoysich AM, et al. **Int J Clin Pharmacol Ther** 1996 Feb;34(2):56–60

Influence of cisapride on the pharmacokinetics and

antihypertensive effect of sustained-release nifedipine. Satoh C, et al. **Intern Med** 1996 Dec;35(12):941-5
Biosynthesis, uptake, and degradation of anandamide and palmitoylethanolamide in leukocytes. Bisogno T, et al. **J Biol Chem** 1997 Feb 7;272(6):3315-23
High-performance liquid chromatographic assay for diltiazem in small-volume blood specimens and application to pharmacokinetic studies in rats. Scully P, et al. **J Chromatogr A** 1996 Apr 5;729(1-2):297-300
Simultaneous first-order and capacity-limited elimination kinetics after oral administration of verapamil. Gupta SK, et al. **J Clin Pharmacol** 1996 Jan;36(1):25-34
No effect of high-protein food on the stereoselective bioavailability and pharmacokinetics of verapamil. Hashiguchi M, et al. **J Clin Pharmacol** 1996 Nov; 36(11):1022-8
Postabsorption concentration peaks with brand-name and generic verapamil: a double-blind, crossover study in elderly hypertensive patients. Saseen JJ, et al. **J Clin Pharmacol** 1997 Jun;37(6):526-34
Pharmacokinetic interactions of moricizine and diltiazem in healthy volunteers. Shum L, et al. **J Clin Pharmacol** 1996 Dec;36(12):1161-8
Haemodynamics, cardiac conduction and pharmacokinetics of mibefradil (Ro 40-5967), a novel calcium antagonist. Petrie JR, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1842-6
Organ-specific pattern of inhibition of diltiazem metabolism at steady state in rabbits. Lefebvre M, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):902-7
Effect of delayed administration of activated charcoal on the absorption of conventional and slow-release verapamil. Laine K, et al. **J Toxicol Clin Toxicol** 1997;35(3):263-8
Effects of extracorporeal shock wave lithotripsy to one kidney on bilateral glomerular filtration rate and PAH clearance in minipigs. Willis LR, et al. **J Urol** 1996 Oct; 156(4):1502-6
Permeability of a neuroprotective compound NS-7 into brain: comparison between normal and middle cerebral artery-occluded rats. Itoh Y, et al. **Life Sci** 1997; 61(10):957-66
Binding and distribution of three prototype calcium channel blockers in perfused rat liver. Bikhazi AB, et al. **Mol Cell Biochem** 1997 Apr;169(1-2):1-11
High variability in drug pharmacokinetics complicates determination of bioequivalence: experience with verapamil. Tsang YC, et al. **Pharm Res** 1996 Jun; 13(6):846-50
Efficacy and pharmacokinetics of gallopamil in patients with coronary artery disease. Ferrara N, et al. **Pharmacol Res** 1996 Jul-Aug;34(1-2):37-41
Effect of oil phase composition on the skin permeation of felodipine from o/w microemulsions. Trotta M, et al. **Pharmazie** 1997 Jan;52(1):50-3
Absorption, metabolism and excretion after oral administration of a new Ca antagonist, 14C-benidipine hydrochloride to man. Kobayashi H, et al. **Xenobiotica** 1997 Jun;27(6):597-608
Plasma and urinary metabolites of efonidipine hydrochloride in man. Nakabeppu H, et al. **Xenobiotica** 1996 Feb; 26(2):229-39
Metabolism and pharmacokinetics of barnidipine hydrochloride, a calcium channel blocker, in man following oral administration of its sustained release formulation. Teramura T, et al. **Xenobiotica** 1997 Feb;27(2):203-16
Metabolism of the calcium antagonist, mibefradil (POSICOR, Ro 40-5967). Part III. Comparative pharmacokinetics of mibefradil and its major metabolites in rat, marmoset, cynomolgus monkey and man. Wiltshire HR, et al. **Xenobiotica** 1997 Jun;27(6):557-71
[Bioavailability of two verapamil formulations following repeated administration in steady-state conditions. An open, two-period, crossover study] Heintz B, et al. **Arzneimittelforschung** 1996 Nov;46(11):1060-3 (Eng. Abstr.) **(Ger)**
[Bioequivalence of nifedipine sustained-release formulations in comparison to standard preparations in solid state] Herrmann R. **Arzneimittelforschung** 1996 Jan;46(1):28-34 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Role of intracellular calcium stores in contrast medium-induced renal vasoconstriction. Drescher P, et al. **Acad Radiol** 1996 Nov;3(11):912-8
Alleviation of the peripheral hemodynamic effects of dexmedetomidine by the calcium channel blocker isradipine. Roekaerts PM, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):364-70
The comparative potency of intravenous nicardipine and verapamil on the cardiovascular response to tracheal intubation. Chen CC, et al. **Acta Anaesthesiol Sin** 1996 Dec; 34(4):197-202
Effect of sublingual nifedipine on left ventricular diastolic dysfunction in hypertensives: echo-Doppler study at rest and during handgrip. Grandi AM, et al. **Acta Cardiol** 1996; 51(6):521-8
Acute haemodynamic effects of diltiazem and its distribution in relation to the myocardial infarction size. Hrdina R, et al. **Acta Medica (Hradec Kralove)** 1996;39(3):107-13
Quinine-induced hearing loss in the guinea pig is not affected by the Ca2+ channel antagonist verapamil. Jäger W, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):46-8
Effects on nociception of the Ca2+ and 5-HT antagonist dotarizine and other 5-HT receptor agonists and antagonists. Belcheva S, et al. **Acta Physiol Pharmacol Bulg** 1995;21(4):93-8
Effect of verapamil and diltiazem on the rCBF and the rCBF autoregulation in cortex and thalamus of cats. Gatchev E, et al. **Acta Physiol Pharmacol Bulg** 1995;21(3):77-80
Effect of calcium channel blocker diltiazem on some depressant actions of ethanol in UChA and UChB rats. Tampier L, et al. **Alcohol** 1997 Jan-Feb;14(1):21-3
Effects of dihydropyridines on the components of the ethanol withdrawal syndrome: possible evidence for involvement of potassium, as well as calcium? Watson WP, et al. **Alcohol Clin Exp Res** 1997 May;21(3):409-16
Effects of nisoldipine and/or enalapril on left ventricular function and exercise capacity in patients with recent anterior myocardial infarction and mild cardiac dysfunction. Romano M, et al. **Am Heart J** 1997 Mar; 133(3):268-72
Is there a rationale for combining angiotensin-converting enzyme inhibitors and calcium antagonists in cardiovascular disease? Ruschitzka FT, et al. **Am Heart J** 1997 Aug;134(2 Pt 2):S31-47 (117 ref.)
Pharmacologic and pharmacokinetic profile of mibefradil, a T- and L-type calcium channel antagonist. Abernethy DR. **Am J Cardiol** 1997 Aug 21;80(4B):4C-11C (34 ref.)
Pharmacologic and clinical perspectives on mibefradil: a new T-channel selective calcium antagonist: introduction. Giles TD. **Am J Cardiol** 1997 Aug 21;80(4B):1C-3C
Safety of calcium antagonists: dissecting the evidence. Messerli FH. **Am J Cardiol** 1996 Nov 7;78(9A):19-23 (34 ref.)
Cardiac effects of calcium antagonists in systemic hypertension. Michalewicz L, et al. **Am J Cardiol** 1997 May 22;79(10A):39-46; discussion 47-8 (145 ref.)
Effects of calcium antagonists on insulin sensitivity and other metabolic parameters. Sowers JR. **Am J Cardiol** 1997 May 22;79(10A):24-8; discussion 47-8 (57 ref.)
Pharmacologic and therapeutic differences among calcium channel antagonists: profile of mibefradil, a new calcium antagonist. Triggle DJ. **Am J Cardiol** 1996 Nov 7; 78(9A):7-12 (41 ref.)
Effects of calcium entry blockers on distribution of blood volume. Oren S, et al. **Am J Hypertens** 1996 Jul;9(7):628-32
Inhibitory effect of monatepil maleate on acyl-CoA:cholesterol acyltransferase activity in the liver of cholesterol-fed Japanese monkeys. Sumiya T, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):779-85
The direct action of 17 beta-estradiol in isolated omental artery from nonpregnant and pregnant women is related to calcium antagonism. Belfort MA, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1163-72
PKC-independent inhibition of cardiac L-type Ca2+ channel current by phorbol esters. Asai T, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H620-7
Reactive oxygen species and calcium homeostasis in cultured human intestinal smooth muscle cells. Bielefeldt K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1439-50
CFTR is required for cAMP inhibition of intestinal Na+ absorption in a cystic fibrosis mouse model. Clarke LL, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G259-67
Regulation by acetylcholine of Ca2+ current in rabbit atrioventricular node cells. Habuchi Y, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2274-82
Calphostin C, a widely used protein kinase C inhibitor, directly and potently blocks L-type Ca channels. Hartzell HC, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1293-9
Inhibition by external Cd2+ of Na/Ca exchange and L-type Ca channel in rabbit ventricular myocytes. Hobai IA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2164-72
Osmo-mechanically sensitive phosphatidylinositol signaling regulates a Ca2+ influx channel in renal epithelial cells. O'Neil RG, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F120-8
Effect of the organic Ca2+ channel blocker D-600 on sarcoplasmic reticulum Ca2+ uptake in skeletal muscle. Ortega A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C310-7
Reduced Mg2+ inhibition of Ca2+ release in muscle fibers of pigs susceptible to malignant hyperthermia. Owen VJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C203-11
A carboxy-terminal peptide of the alpha 1-subunit of the dihydropyridine receptor inhibits Ca(2+)-release channels. Slavik KJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1475-81
Mechanisms of inactivation of L-type calcium channels in human atrial myocytes. Sun H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1625-35
Nitric oxide inhibits serotonin-induced calcium release in pulmonary artery smooth muscle cells. Yuan XJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L44-50
The influence of three L-type calcium channel blockers on morphine effects in healthy volunteers. Hasegawa AE, et al. **Anesth Analg** 1997 Sep;85(3):633-8
Effect of diltiazem on midazolam and alfentanil disposition in patients undergoing coronary artery bypass grafting. Ahonen J, et al. **Anesthesiology** 1996 Dec;85(6):1246-52
Volatile anesthetics reduce low-voltage-activated calcium currents in a thyroid C-cell line. McDowell TS, et al. **Anesthesiology** 1996 Nov;85(5):1167-75
Modulation of cardiac calcium channels by propofol. Zhou W, et al. **Anesthesiology** 1997 Mar;86(3):670-5
Effect of calcium channel blockade on skin blood flow in diabetic hypertension: a comparison of isradipine and atenolol. Rendell MS, et al. **Angiology** 1997 Mar; 48(3):203-13
Dihydropyridine-sensitive calcium current mediates neurotransmitter release from retinal bipolar cells. Tachibana M, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:359-61
Action and binding of calcium channel blockers on the putative calcium channel of synaptosomal plasma membrane from the electric organ of Narke japonica. Tokumaru H, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:410-2
Diversity of calcium channel subtypes in presynaptic terminals of the chick ciliary ganglion. Yawo H. **Ann N Y Acad Sci** 1993 Dec 20;707:379-81
Voltage-dependent block of L-type Ca channels by caffeine in smooth myocytes of the guinea pig urinary bladder. Yoshino M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:362-4
Lambert-Eaton myasthenic syndrome immunoglobulins react with multiple types of calcium channels in small-cell lung carcinoma. Meriney SD, et al. **Ann Neurol** 1996 Nov; 40(5):739-49
Proteolytic activity in amyotrophic lateral sclerosis IgG preparations [see comments] Nyormoi O. **Ann Neurol** 1996 Nov;40(5):701-6. Comment in: Ann Neurol 1996 Nov;40(5):691-3.
Limitation of infarct size with preconditioning and calcium antagonist (diltiazem): difference in 99mTc-PYP uptake in the myocardium. Okuda K, et al. **Ann Nucl Med** 1996 May;10(2):201-9
Calcium-channel blockers preserve coronary endothelial reactivity after ischemia-reperfusion. Dagenais F, et al. **Ann Thorac Surg** 1997 Apr;63(4):1050-6
Comparative in vitro evaluation of dithiane analogs of tiapamil, Ro 11-2933, Ro 44-5911 and Ro 44-5912 as multidrug resistance modulators. Abderrabi M, et al. **Anticancer Drugs** 1996 Jun;7(4):430-6
Effects of nifedipine and diltiazem on pharmacokinetics of cefpodoxime following its oral administration. Deslandes A, et al. **Antimicrob Agents Chemother** 1996 Dec; 40(12):2879-81
Manipulation of the N-alkyl substituent in amodiaquine to overcome the verapamil-sensitive chloroquine resistance component. Hawley SR, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2345-9
Effects of nifedipine, metronidazole, and nitric oxide donors on spore germination and cell culture infection of the microsporidia Encephalitozoon hellem and Encephalitozoon intestinalis. He Q, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):179-85
Age-related alteration of alpha(1)-adrenoceptor mechanisms and Ca2+ inhibitory effects of isradipine. Satoh M, et al. **Arch Int Pharmacodyn Ther** 1995 Sep-Oct;330(2):190-205
Voltage- and frequency-dependent modulation of L-type Ca2+ channel by MPC-1304, a novel calcium antagonist in guinea-pig hearts. Sunami A, et al. **Arch Int Pharmacodyn Ther** 1995 Sep-Oct;330(2):151-64
Effects of nifedipine and TMB-8 on angiotensin II-induced antinatriuresis in anesthetized dogs. Takahara A, et al. **Arch Int Pharmacodyn Ther** 1995 Nov-Dec;330(3):309-18
Effects of calcium channel blockers on impairment of brain function in senescence-accelerated mice. Yamamoto M, et al. **Arch Int Pharmacodyn Ther** 1995 Sep-Oct;330(2):125-37
Syntheses, calcium channel antagonist and anticonvulsant activities of substituted 1,4-dihydro-3,5-pyridinedicarboxylates containing various 3-alkyl ester substituents. Yiu SH, et al. **Arch Pharm (Weinheim)** 1997 Jan-Feb;330(1-2):35-43
Protective effect of nifedipine on myocardial stunning in isolated rabbit hearts: role of high energy phosphates stores. Moreyra AE, et al. **Arch Physiol Biochem** 1996; 104(3):265-71
The influence of nifedipine and verapamil on the ischaemia-induced changes in canine sarcolemmal membranes. Kobusiewicz W, et al. **Arch Vet Pol** 1995; 35(1-2):79-87
Impact of a combination of a calcium antagonist and a beta-blocker on cell- and copper-mediated oxidation of LDL and on the accumulation and efflux of cholesterol in human macrophages and murine J774 cells. Lesnik P, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):979-88
Intracellular ionized calcium ([Ca++]i) mobilization in platelets from rats receiving atherogenic lipids. Modulation by nifedipine. Saladino CF, et al. **Artery** 1996;22(2):80-92
Antiarrhythmic action of the new calcium antagonist [1,2,5-trimethyl-4-phenyl-4-beta-(N-cyanoethyl-N-4'-methoxybenzyl) -ethylamino]piperidine dihydrochloride. Alexanian AR, et al. **Arzneimittelforschung** 1996 Dec; 46(12):1110-3
Influence of mibefradil on Ca2+ influx induced by vasoactive hormones or depletion of intracellular calcium stores. Cheglakov IB, et al. **Arzneimittelforschung** 1997 Mar;47(3):244-7
Pharmacological in vitro studies of the new 1,4-dihydropyridine calcium antagonist lercanidipine. Guarneri L, et al. **Arzneimittelforschung** 1996 Jan; 46(1):15-24
Membrane currents elicited by the organic calcium channel blocker verapamil in native and rat brain RNA-injected oocytes of Xenopus laevis. Hübschle T, et al. **Arzneimittelforschung** 1997 Jan;47(1):1-5
Effects of the novel water-soluble calcium antagonist (+/-)-3-(4-allyl-1-piperazinyl)-2,2-dimethylpropyl methyl 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-

pyridinedicarboxylate dihydrochloride on the endothelium-independent and endothelium-dependent contraction in isolated canine cerebral arteries. Kanda M, et al. **Arzneimittelforschung** 1996 Jul;46(7):663-6

Effect of the anticholinergic drug with calcium antagonistic activity, (+/-)-4-diethylamino-1,1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate, on lower urinary tract function in decerebrated dogs [published erratum appears in Arzneimittelforschung 1997 Apr;47(4):420] Kimura Y, et al. **Arzneimittelforschung** 1997 Feb;47(2):182-9

Effect of the anticholinergic drug with calcium antagonistic activity, (+/-)-4-diethylamino-1,1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate, on lower urinary tract function in rhesus monkeys. Kimura Y, et al. **Arzneimittelforschung** 1997 Feb;47(2):189-94

Cerebrovascular selectivity and vasospasmolytic action of the novel calcium antagonist (+/-)-(E)-1-(3-fluoro-6,11-dihydrodibenz[b,e]oxepin-11-yl)-4-(3-phenyl-2-propenyl)-piperazine dimaleate in isolated cerebral arteries of the rabbit and dog. Minato H, et al. **Arzneimittelforschung** 1997 Apr;47(4):339-46

Stereo-selective calcium antagonistic and binding properties of the enantiomers of lemildipine in vascular tissue of pigs and dogs. Nakayama K, et al. **Arzneimittelforschung** 1996 Nov;46(11):1045-53

Effects of the new calcium antagonist efonidipine hydrochloride on resting and exercise hemodynamics in patients with stable effort angina. Saito T, et al. **Arzneimittelforschung** 1996 Sep;46(9):861-7

Haemodynamic effects of lercanidipine in anaesthetized open-chest dogs. Sironi G, et al. **Arzneimittelforschung** 1996 Mar;46(3):256-61

Inhibition of vascular smooth muscle cell proliferation by the calcium antagonist clentiazem: role of protein kinase C. Alam R, et al. **Atherosclerosis** 1996 Oct 25;126(2):207-19

Tranilast antagonizes angiotensin II and inhibits its biological effects in vascular smooth muscle cells. Miyazawa K, et al. **Atherosclerosis** 1996 Apr 5;121(2):167-73

Effects of nimodipine on learning in normotensive and spontaneously hypertensive rats. Meneses A, et al. **Behav Brain Res** 1997 Apr;85(1):121-5

The effects of chronic administration of nimodipine on age-related changes in nitric oxide and its synthase in senescence-accelerated mouse brain. Inada K, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):753-65

Spasmolytic effect of efonidipine hydrochloride in isolated canine coronary artery: comparison with the effects of nifedipine and nisoldipine. Jin H, et al. **Biol Pharm Bull** 1997 Feb;20(2):196-200

In vitro-in vivo correlation of pharmacodynamics of felodipine in essential hypertensive patients based on an ion-channel binding model. Nakajima Y, et al. **Biol Pharm Bull** 1996 Aug;19(8):1097-9

Comparison of the sympathetic nervous system activity between spontaneously hypertensive and Wistar-Kyoto rats to respond to blood pressure reduction. Prados P, et al. **Biol Pharm Bull** 1997 Apr;20(4):341-4

Cardiovascular effects of YM430, a 1,4-dihydropyridine derivative with beta-adrenoceptor blocking activity, in dogs and rats. Shibasaki K, et al. **Biol Pharm Bull** 1997 Mar;20(3):230-6

Intravenous infusion of diltiazem causes uricosuria with concomitant hypouricemia in rats. Sugino H, et al. **Biol Pharm Bull** 1996 Apr;19(4):627-9

Calcium-cadmium interaction on sugar absorption across the rabbit jejunum. Mesonero JE, et al. **Biol Trace Elem Res** 1996 Feb;51(2):149-59

Calcium channel block by (-)devapamil is affected by the sequence environment and composition of the phenylalkylamine receptor site. Degtiar VE, et al. **Biophys J** 1997 Jul;73(1):157-67

Alteration of P-type calcium channel gating by the spider toxin omega-Aga-IVA. McDonough SI, et al. **Biophys J** 1997 May;72(5):2117-28

Parathyroid hormone co-stimulation of hepatocyte proliferation is sensitive to protein kinase A and calcium channel inhibitors. Skouteris GG. **Biosci Rep** 1996 Aug;16(4):343-50

Benidipine counteracts sodium-induced alterations in systemic and regional hemodynamics. Shimamoto H, et al. **Blood Press** 1997 Jan;6(1):18-23

Function of Ca2+ in phosphatidylcholine-hydrolyzing phospholipase D activation in osteoblast-like cells. Tokuda H, et al. **Bone** 1996 Oct;19(4):347-52

Potentiation of local lignocaine-induced sensory block by calcium channel blockers in rats. Iwasaki H, et al. **Br J Anaesth** 1996 Aug;77(2):243-7

In vitro adrenaline and collagen-induced mobilization of platelet calcium and its inhibition by naftopidil, doxazosin and nifedipine. Alarayyed NA, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):415-20

Diltiazem increases blood concentrations of cyclized cyclosporine metabolites resulting in different cyclosporine metabolite patterns in stable male and female renal allograft recipients. Bleck JS, et al. **Br J Clin Pharmacol** 1996 Jun;41(6):551-6

Diltiazem does not always increase blood cyclosporin concentration. Jones TE, et al. **Br J Clin Pharmacol** 1996 Nov;42(5):642-4

Enhanced effect of triazolam with diltiazem. Kosuge K, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):367-72

Extra- and intracellular action of quaternary devapamil on muscle L-type Ca(2+)-channels. Berjukov S, et al. **Br J Pharmacol** 1996 Nov;119(6):1197-202

Calcium-antagonist effects of norbormide on isolated perfused heart and cardiac myocytes of guinea-pig: a comparison with verapamil. Bova S, et al. **Br J Pharmacol** 1997 Jan;120(1):19-24

Effects of neuropeptide Y on L-type calcium current in guinea-pig ventricular myocytes. Bryant SM, et al. **Br J Pharmacol** 1996 Jul;118(6):1455-60

Different effects of reducing agents on omega-conotoxin GVIA inhibition of [3H]-acetylcholine release from rat cortical slices and guinea-pig myenteric plexus. Casali TA, et al. **Br J Pharmacol** 1997 Jan;120(1):88-92

Characteristics of L-type calcium channel blockade by lacidipine in guinea-pig ventricular myocytes. Cerbai E, et al. **Br J Pharmacol** 1997 Feb;120(4):667-75

Extracellular site for econazole-mediated block of Ca2+ release-activated Ca2+ current (Icrac) in T lymphocytes. Christian EP, et al. **Br J Pharmacol** 1996 Oct;119(4):647-54

Effect of niflumic acid on noradrenaline-induced contractions of the rat aorta. Criddle DN, et al. **Br J Pharmacol** 1996 Jun;118(4):1065-71

Capsazepine block of voltage-activated calcium channels in adult rat dorsal root ganglion neurones in culture. Docherty RJ, et al. **Br J Pharmacol** 1997 Aug;121(7):1461-7

Evidence for mediation by endothelium-derived hyperpolarizing factor of relaxation to bradykinin in the bovine isolated coronary artery independently of voltage-operated Ca2+ channels. Drummond GR, et al. **Br J Pharmacol** 1996 Mar;117(6):1035-40

Action of the calcium channel blocker lacidipine on cardiac hypertrophy and endothelin-1 gene expression in stroke-prone hypertensive rats. Feron O, et al. **Br J Pharmacol** 1996 Jun;118(3):659-64

Effects of calcium antagonists on endothelin-1-induced myocardial ischaemia and oedema in the rat. Filep JG, et al. **Br J Pharmacol** 1996 Jun;118(4):893-900

Voltage and pH dependent block of cloned N-type Ca2+ channels by amlodipine. Furukawa T, et al. **Br J Pharmacol** 1997 Jul;121(6):1136-40

Inhibition of nicotinic receptor-mediated responses in bovine chromaffin cells by diltiazem. Gandia L, et al. **Br J Pharmacol** 1996 Jul;118(5):1301-7

Effects of an AT1 receptor antagonist, an ACE inhibitor and a calcium channel antagonist on cardiac gene expressions in hypertensive rats. Kim S, et al. **Br J Pharmacol** 1996 Jun;118(3):549-56

The antihypertensive effect of orally administered nifedipine-loaded nanoparticles in spontaneously hypertensive rats. Kim YI, et al. **Br J Pharmacol** 1997 Feb;120(3):399-404

Calcium entry and 5-HT2 receptor blockade in oliguric ischaemic acute renal failure: effects of levemopamil in conscious rats. Kramer HJ, et al. **Br J Pharmacol** 1996 Mar;117(6):1348-54

Nitric oxide, a possible mediator of 1,4-dihydropyridine-induced photorelaxation of vascular smooth muscle. Lovren F, et al. **Br J Pharmacol** 1996 Jun;118(4):879-84

Inhibition by mibefradil, a novel calcium channel antagonist, of Ca(2+)- and volume-activated Cl- channels in macrovascular endothelial cells. Nilius B, et al. **Br J Pharmacol** 1997 Jun;121(3):547-55

Effects of N- and L-type calcium channel antagonists and (+/-)-Bay K8644 on nerve-induced catecholamine secretion from bovine perfused adrenal glands. O'Farrell M, et al. **Br J Pharmacol** 1997 Jun;121(3):381-8

Oestradiol-induced relaxation of rabbit basilar artery by inhibition of voltage-dependent Ca channels through GTP-binding protein. Ogata R, et al. **Br J Pharmacol** 1996 Jan;117(2):351-9

Mechanism of inhibition of calcium channels in rat nucleus tractus solitarius by neurotransmitters. Rhim H, et al. **Br J Pharmacol** 1996 Jul;118(6):1341-50

Effect of amlodipine on renin secretion and renin gene expression in rats. Schricker K, et al. **Br J Pharmacol** 1996 Oct;119(4):744-50

Evidence that both nitric oxide (NO) and a non-NO hyperpolarizing factor elicit NANC nerve-mediated relaxation in the rat isolated anococcygeus. Selemidis S, et al. **Br J Pharmacol** 1997 Feb;120(4):662-6

Physiological and behavioural effects of the endogenous cannabinoid, arachidonylethanolamide (anandamide), in the rat. Stein EA, et al. **Br J Pharmacol** 1996 Sep;119(1):107-14

Effect of verapamil on intimal thickening and vascular reactivity in the collared carotid artery of the rabbit. Ustüines L, et al. **Br J Pharmacol** 1996 Aug;118(7):1681-8

Differential effects of omega-conotoxin GVIA on cholinergic and non-cholinergic secretomotor neurones in the guinea-pig small intestine. Vremec MA, et al. **Br J Pharmacol** 1997 May;121(2):232-6

Effects of N-, P- and Q-type neuronal calcium channel antagonists on mammalian peripheral neurotransmission. Wright CE, et al. **Br J Pharmacol** 1996 Sep;119(1):49-56

Inhibition of [3H]-U69593 binding and the cardiac effects of U50, 488H by calcium channel blockers in the rat heart. Zhang WM, et al. **Br J Pharmacol** 1997 Mar;120(5):827-32

Selective blockade of N-type voltage-sensitive calcium channels protects against brain injury after transient focal cerebral ischemia in rats. Bowersox SS, et al. **Brain Res** 1997 Feb 7;747(2):343-7

Nimodipine's protection against corticosterone-induced morphological changes in the hippocampus of young rats. Dachir S, et al. **Brain Res** 1997 Feb 14;748(1-2):175-83

4-aminopyridine and l-cis-diltiazem block the cGMP-activated K+ channels closed by light in the molluscan extra-ocular photoreceptors. Gotow T, et al. **Brain Res** 1997 Jan 16;745(1-2):303-8

Calcium channel types mediating synaptic transmission during aging. Hall SC, et al. **Brain Res** 1997 Jan 16;745(1-2):339-42

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced neurotoxicity in non-human primates is antagonized by pretreatment with nimodipine at the nigral, but not at the striatal level. Kupsch A, et al. **Brain Res** 1996 Nov 25;741(1-2):185-96

Effects of omega-conotoxin MVIIC on veratridine-induced cytotoxicity and cytosolic Ca(2+) oscillations. Maroto R, et al. **Brain Res** 1996 Apr 1;714(1-2):209-14

Beneficial effects of TDN-345, a novel Ca2+ antagonist, on ischemic brain injury and cerebral glucose metabolism in experimental animal models with cerebrovascular lesions. Nakayama T, et al. **Brain Res** 1997 Jul 11;762(1-2):203-10

Ca(2+)-antagonistic action of bevantolol on hypothalamic neurons in vitro: its comparison with those of other beta-adrenoceptor antagonists, a local anesthetic and a Ca(2+)-antagonist. Omura T, et al. **Brain Res** 1996 Jan 15;706(2):289-92

Ca2+ channel currents in type I carotid body cells of normoxic and chronically hypoxic neonatal rats. Peers C, et al. **Brain Res** 1996 Nov 11;739(1-2):251-7

Immunohistochemical and electrophysiological evidence for omega-conotoxin-sensitive calcium channels in unmyelinated C-fibres of biopsied human sural nerve. Quasthoff S, et al. **Brain Res** 1996 Jun 3;723(1-2):29-36

A novel type of calcium channel sensitive to omega-agatoxin-TK in cultured rat cerebral cortical neurons. Teramoto T, et al. **Brain Res** 1997 May 9;756(1-2):225-30

Inhibitory effects of diltiazem, an L-type Ca2+ channel blocker, on naloxone-increased glutamate levels in the locus coeruleus of opioid-dependent rats. Tokuyama S, et al. **Brain Res** 1996 May 25;722(1-2):212-6

Chlorpromazine reduces toxicity and Ca2+ uptake induced by amyloid beta protein (25-35) in vitro. Ueda K, et al. **Brain Res** 1997 Feb 14;748(1-2):184-8

Simultaneous blockade of intracellular calcium increases and of neuronal epileptiform depolarizations by verapamil. Wiemann M, et al. **Brain Res** 1996 Sep 23;734(1-2):49-54

omega-Conotoxin GVIA and desipramine insensitive norepinephrine efflux from cardiac sympathetic nerve terminal. Yamazaki T, et al. **Brain Res** 1997 Jul 4;761(2):329-32

Evoked GABA release is not mediated by N-type VDCC in the frontal cortex of awake rats: effects of neomycin. Martínez-Martos JM, et al. **Brain Res Bull** 1997;43(5):441-5

Blockade of N- and Q-type Ca2+ channels inhibit K(+)-evoked [3H]acetylcholine release in rat hippocampal slices. Saydoff JA, et al. **Brain Res Bull** 1996;40(4):283-6

Developmental differences in endplate response to P-type calcium channel blockade in the rat diaphragm. Breugelmans JG, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1-2):277-81

Calcium channel blockers inhibit the antidipsogenic effect of central injections of zinc in rats. DeCastro-e-Sliva E, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1651-5

Cadmium and calcium uptake in the mollusc Donax rugosus and effect of a calcium channel blocker. Sidoumou Z, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):318-25

Comparison of effects of verapamil and quercetin on delayed polyneuropathy induced by Tri-o-cresyl phosphate in hens. Wu YJ, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):611-8

Comparison of nifedipine and metoprolol on collateral coronary blood flow in a swine model of chronic coronary obstruction and acute ischaemia during isoflurane anaesthesia. Cheng DC, et al. **Can J Anaesth** 1996 Feb;43(2):160-8

Diltiazem and vecuronium: neuromuscular and cardiovascular effects [letter] Saitoh Y, et al. **Can J Anaesth** 1997 Jan;44(1):99

A high cholesterol diet blocks the effect of calcium channel blockers on the uptake of sugars in rabbit intestine. Hyson DH, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):57-64

Discrimination by nimodipine, but not by nifedipine, between phasic and tonic contractions of guinea-pig taenia coli induced by K+ depolarization. Usune S, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1600-4

Effects of benzodiazepines on potassium-induced increase in free cytosolic calcium concentration in astrocytes: interactions with nifedipine and the peripheral-type benzodiazepine antagonist PK 11195. Zhao Z, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):273-7

In vitro effects of R-verapamil on the cytokine environment and T-lymphocyte proliferation when human T-lymphocyte activation takes place in the presence of acute myelogenous leukemia blasts. Bruserud O. **Cancer Chemother Pharmacol** 1996;39(1-2):71-8

Cell-cycle arrest in G0/G1 phase of growth factor-induced

endothelial cell proliferation by various calcium channel blockers. Zeitler H, et al. **Cancer Detect Prev** 1997; 21(4):332–9

Monensin and verapamil do not alter intracellular localisation of daunorubicin in multidrug resistant human KB cells. Wood DJ, et al. **Cancer Lett** 1996 Nov 12;108(1):41–7

Beneficial effects of felodipine on myocardial and coronary function during low-flow ischemia and reperfusion. Bernstein EA, et al. **Cardiovasc Drugs Ther** 1996 May; 10(2):167–78

Effects of felodipine on the ischemic heart: insight into the mechanism of cytoprotection. Ferrari R, et al. **Cardiovasc Drugs Ther** 1996 Sep;10(4):425–37

Diltiazem and verapamil prevent vitamin D3-induced myocardial calcium overload in rat papillary muscle: assessment with PVC ETH-123 calcium-selective microelectrodes [letter] Gasser R, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):185–7

Calcium antagonists and endothelial function: focus on nitric oxide and endothelin. Godfraind T, et al. **Cardiovasc Drugs Ther** 1996 Sep;10(4):439–46 (44 ref.)

Blockade of receptor-operated calcium channels by mibefradil (Ro 40-5967): effects on intracellular calcium and platelet aggregation. Hahn M, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):815–21

Natriuretic effect of nitrendipine is preceded by transient systemic and renal hemodynamic effects. Krekels MM, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):33–8

1,4-Dihydropyridines versus beta-blockers for hypertension: are either safe for the heart? [editorial] Leenen FH. **Cardiovasc Drugs Ther** 1996 Sep;10(4):397–402

Calcium-channel blockers inhibit human low-density lipoprotein oxidation by oxygen radicals. Napoli C, et al. **Cardiovasc Drugs Ther** 1996 Sep;10(4):417–24

Prevention of neointima formation by mibefradil after vascular injury in rats: comparison with ACE inhibition. Schmitt R, et al. **Cardiovasc Drugs Ther** 1996 May; 10(2):101–5

Pharmacological aspects of calcium channel blockers. Scholz H. **Cardiovasc Drugs Ther** 1997 Jan;10 Suppl 3:869–72 (25 ref.)

Effects of KT-362, a sarcolemmal and intracellular calcium antagonist, on calcium transients of cultured neonatal rat ventricular cells: a comparison with gallopamil and ryanodine. Tatsukawa Y, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):667–75

Delay by a calcium antagonist, amlodipine, of the onset of primary ventricular fibrillation in myocardial ischemia. Timour Q, et al. **Cardiovasc Drugs Ther** 1996 Sep; 10(4):447–54

SK&F 96365 inhibits intracellular Ca2+ pumps and raises cytosolic Ca2+ concentration without production of nitric oxide and von Willebrand factor. Iouzalen L, et al. **Cell Calcium** 1996 Dec;20(6):501–8

Oscillations of cytosolic free calcium in bombesin-stimulated HIT-T15 cells. Li G, et al. **Cell Calcium** 1996 Jun; 19(6):535–46

Quantitative structure-activity relationships of Ca(2+)-antagonistic semotiadil congeners. Fujimura K, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):542–6

Separate activation of intracellular Ca2+ release, voltage-dependent and receptor-operated Ca2+ channels in the rat aorta. Huang Y, et al. **Chin J Physiol** 1996; 39(1):1–8

Temporal variation in the interaction between calcium channel blockers and morphine-induced analgesia. Hodoğluğil U, et al. **Chronobiol Int** 1996 Aug;13(3):227–34

Nicardipine enhances cytoplasmic calcium concentration in mouse thymocytes in vitro. Chen WR, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov;16(6):489–92

Effects of tetrandrine on cytosolic free calcium in cultured rat myocardial cells. Li XT, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):55–8

Effects of nitrendipine on capacity of calcium binding of erythrocyte membrane and total intraerythrocyte calcium content in SHR rats. Wang YL, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):38–40

Effects of dipfluzine on cortical somatosensory evoked potentials and amino acid contents in ischemic rat brain. Wang YL, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan; 17(1):41–4

Influences of ginsenosides Rb1 and Rg1 on reversible focal brain ischemia in rats. Zhang YG, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):44–8

Inhibition of L-type Ca2+ channel current in rat ventricular myocytes by terfenadine. Liu S, et al. **Circ Res** 1997 Aug; 81(2):202–10

Different effects of calcium antagonists, nitrates, and beta-blockers on platelet function. Possible importance for the treatment of unstable angina. Knight CJ, et al. **Circulation** 1997 Jan 7;95(1):125–32

Verapamil reduces tachycardia-induced electrical remodeling of the atria [see comments] Tieleman RG, et al. **Circulation** 1997 Apr 1;95(7):1945–53. Comment in: Circulation 1997 Apr 1;95(7):1745–8.

Endothelin and calcium antagonists in the skin microcirculation of patients with coronary artery disease. Wenzel RR, et al. **Circulation** 1996 Aug 1;94(3):316–22

A mechanism of antioxidant activity of calcium antagonist verapamil against LDL oxidation. Karmansky I, et al. **Clin Chim Acta** 1997 Mar 18;259(1–2):177–82

The influence of blood pressure on intracellular Ca2+ content in erythrocytes: effects of cadmium chloride and nifedipine. Erkiliç AB, et al. **Clin Exp Hypertens** 1996 Jan; 18(1):77–86

Calcium channel blockers suppress the contact hypersensitivity reaction (CHR) by inhibiting antigen transport and presentation by epidermal Langerhans cells in mice. Katoh N, et al. **Clin Exp Immunol** 1997 May; 108(2):302–8

Long-term effect of manidipine on renal function and structure in uninephrectomized spontaneously hypertensive rats. Fujimaki M, et al. **Clin Exp Pharmacol Physiol** 1997 Jul;24(7):506–12

Effects of tetrandrine and closely related bis-benzylisoquinoline derivatives on cytosolic Ca2+ in human leukaemic HL-60 cells: a structure-activity relationship study. Leung YM, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):653–9

Tetrandrine as a calcium antagonist. Takemura H, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):751–3

Selectivity of omega-conotoxin GVIA for n-type calcium channels in rat isolated small mesenteric arteries. Whorlow SL, et al. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):16–21

Protective effects of manidipine on spermatogenesis in stroke-prone spontaneously hypertensive rats. Akagashi K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S342–4

Protective effect of nicardipine treatment on cerebrovascular microanatomical changes in spontaneously hypertensive rats. Amenta F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S331–2

Influence of long-term treatment with the dihydropyridine-type calcium antagonist nicardipine on renal microanatomical changes in spontaneously hypertensive rats. Amenta F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S333–4

Pharmacological characterization and autoradiographic localization of dihydropyridine-type calcium channels in the kidney of spontaneously hypertensive rats. Amenta F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S232–3

Suppression of vascular transforming growth factor-beta1 and extracellular matrix gene expressions by cilazapril and nifedipine in hypertensive rats. Kim S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S355–6

Effects of benidipine, a long-acting calcium antagonist, on renal functions in anaesthetized spontaneously hypertensive rats. Nomura H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S335–6

Effect of barnidipine on blood flow to major organs and renal function in anaesthetized dogs and spontaneously hypertensive rats. Saitoh M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S339–40

The effect of nifedipine on serum endothelin-1 levels in essential hypertension [letter] Akpolat T, et al. **Clin Nephrol** 1997 Feb;47(2):130–1

Endotoxin-induced acute renal failure in the rat: effects of urodilatin and diltiazem on renal function. Schramm L, et al. **Clin Nephrol** 1996 Aug;46(2):117–24

Central action of cinnarizine and flunarizine: a saccadic eye movement study. Casucci G, et al. **Clin Neuropharmacol** 1994 Oct;17(5):417–22

Pharmacokinetic and pharmacodynamic interactions between diltiazem and quinidine. Laganière S, et al. **Clin Pharmacol Ther** 1996 Sep;60(3):255–64

Effect of treatment with calcium antagonists in vitro and in vivo on the contractile response of isolated rat and human detrusor muscle. Elliott RA, et al. **Clin Sci (Colch)** 1996 Oct;91(4):467–74

Suppression of oxidant production by diltiazem, nifedipine and verapamil in human neutrophils. Feng YH, et al. **Clin Sci (Colch)** 1996 Oct;91(4):459–66

Effect of nifedipine on renal function in liver transplant recipients receiving tacrolimus. Seifeldin R, et al. **Clin Ther** 1996 May-Jun;18(3):491–6

Protective effect of diltiazem on myocardial ischemic injury associated with .OH generation. Obata T, et al. **Comp Biochem Physiol A Physiol** 1997 Jun;117(2):257–61

Beneficial effect of nisoldipine in repeated coronary reperfusion. Hammerman H, et al. **Coron Artery Dis** 1997 Feb;8(2):97–100

Amlodipine and benazeprilat differently affect the responses to endothelin-1 and bradykinin in porcine ciliary arteries: effects of a low and high dose combination. Lang MG, et al. **Curr Eye Res** 1997 Mar;16(3):208–13

Time change of nicardipine effect on choroidal circulation in rabbit eyes. Tamaki Y, et al. **Curr Eye Res** 1996 May; 15(5):543–8

Nisoldipine blocks the increase of intracellular free calcium-ion concentration associated with elevated sodium-lithium countertransport activity in erythrocytes in patients with NIDDM. Fujita J, et al. **Diabet Med** 1997 Jun;14(6):499–502

Renal response to volume expansion in streptozotocin-induced diabetic rats: influence of calcium channel blockade. Patel KP, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):69–74

Failure of nimodipine to prevent or correct the long-term nerve conduction defect and increased neuronal Ca(2+)-currents in the diabetic BB/W-rat. Ristic H, et al. **Diabetes Res Clin Pract** 1996 May;32(3):135–40

Effect of verapamil on allyl alcohol hepatotoxicity. Atzori L, et al. **Drug Metabol Drug Interact** 1996;13(2):87–98

How do calcium channel blockers prevent cardiovascular events. Are they all alike? Bogaert MG. **Drugs** 1996;52 Suppl 4:3–7; discussion 7–8 (17 ref.)

Verapamil: a review of its pharmacological properties and therapeutic use in coronary artery disease. Brogden RN, et al. **Drugs** 1996 May;51(5):792–819 (194 ref.)

Alteration of loosely bound calcium in the guinea pig organ of Corti after treatment with diltiazem as calcium channel blocker. Heinrich UR, et al. **Eur Arch Otorhinolaryngol** 1997;254(5):223–9

Microcirculation: what is the role of calcium antagonists? Camici PG. **Eur Heart J** 1997 Jan;18 Suppl A:A51–5 (61 ref.)

Calcium antagonists and atherosclerosis. Experimental evidence. Catapano AL. **Eur Heart J** 1997 Jan;18 Suppl A:A80–6 (73 ref.)

Oestrogen as a calcium channel blocker. Collins P, et al. **Eur Heart J** 1996 Aug;17 Suppl D:27–31 (43 ref.)

Major differences among the three classes of calcium antagonists. Ferrari R. **Eur Heart J** 1997 Jan;18 Suppl A:A56–70 (177 ref.)

Novel uses and potential for calcium antagonists in revascularization. Nikol S, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A105–9 (49 ref.)

Pharmacological differences between calcium antagonists. Opie LH. **Eur Heart J** 1997 Jan;18 Suppl A:A71–9 (53 ref.)

Mechanisms whereby calcium channel antagonists may protect patients with coronary artery disease. Opie LH. **Eur Heart J** 1997 Jan;18 Suppl A:A92–104 (108 ref.)

Inhibited neutrophil functions in patients treated with nifedipine but not with verapamil or diltiazem. Levy R, et al. **Eur J Clin Invest** 1996 May;26(5):376–81

Does hypercalcaemia or calcium antagonism affect human melatonin secretion or renal excretion? Wikner J, et al. **Eur J Clin Invest** 1997 May;27(5):374–9

Combined effects of hypocapnia and nicardipine on airway resistance: a pilot study. Combes P, et al. **Eur J Clin Pharmacol** 1997;51(5):385–8

Calcium antagonist treatment and cardiovascular responses to a cold pressor test at high altitude. Hankø E, et al. **Eur J Clin Pharmacol** 1996;51(3–4):265–7

Pharmacokinetic-pharmacodynamic modelling as a tool to evaluate the clinical relevance of a drug-food interaction for a nisoldipine controlled-release dosage form. Schaefer HG, et al. **Eur J Clin Pharmacol** 1997;51(6):473–80

Effect of nifedipine on superior mesenteric artery impedance in humans. Voet D, et al. **Eur J Clin Pharmacol** 1996; 51(1):39–43

The stimulatory effect of endothelin-1 on regenerating adrenal cortex is reversed by nifedipine. Zieleniewski W. **Eur J Endocrinol** 1997 Jan;136(1):121–2

Opioid inhibition of Ca2+ channel subtypes in bovine chromaffin cells: selectivity of action and voltage-dependence. Albillos A, et al. **Eur J Neurosci** 1996 Aug;8(8):1561–70

Differential effects of an L-type Ca2+ channel antagonist on activity- and phosphorylation-enhanced release of acetylcholine at the neuromuscular junction of the frog in vitro [published erratum appears in Eur J Neurosci 1996 Jun;8(6):1315] Arenson MS, et al. **Eur J Neurosci** 1996 Mar; 8(3):437–45

Inhibition of N-type calcium channels: the only mechanism by which presynaptic alpha 2-autoreceptors control sympathetic transmitter release. Boehm S, et al. **Eur J Neurosci** 1996 Sep;8(9):1924–31

Activation of nucleotide receptors inhibits high-threshold calcium currents in NG108-15 neuronal hybrid cells. Filippov AK, et al. **Eur J Neurosci** 1996 Jun;8(6):1149–55

Inhibition of [Ca2+]i transients in rat adrenal chromaffin cells by neuropeptide Y: role for a cGMP-dependent protein kinase-activated K+ conductance. Lemos VS, et al. **Eur J Neurosci** 1997 Jun;9(6):1144–52

Multiple types of Ca2+ channels in mouse motor nerve terminals. Lin MJ, et al. **Eur J Neurosci** 1997 Apr; 9(4):817–23

Development of G protein-mediated Ca2+ channel regulation in mouse embryonic stem cell-derived neurons. Strübing C, et al. **Eur J Neurosci** 1997 Apr;9(4):824–32

Flunarizine, an anti-migraine agent, impairs nitroxidergic nerve function in cerebral arteries. Ayajiki K, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):49–53

R- and L-type Ca2+ channels are insensitive to eliprodil in rat cultured cerebellar granule neurons. Biton B, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):277–81

Block of P-type Ca2+ channels by the NMDA receptor antagonist eliprodil in acutely dissociated rat Purkinje cells. Biton B, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):91–100

Amlodipine, a Ca2+ channel antagonist, modifies cerebral blood flow autoregulation in hypertensive rats. Cai H, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):103–6

Enhancement of tamoxifen-induced E-cadherin function by Ca2+ channel antagonists in human breast cancer MCF7/6 cells. Charlier C, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2–3):413–6

Comparison of the stimulus properties of ethanol and the Ca2+ channel antagonist nimodipine in rats. De Beun R, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):5–13

Differential effects of forskolin and 1,9-dideoxy-forskolin on nicotinic receptor- and K+-induced responses in chromaffin cells. Gandía L, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):189–99

Ca2+ channel blockade and the antielectroshock activity of NMDA receptor antagonists, CGP 40116 and CGP

43487, in mice. Gasior M, et al. **Eur J Pharmacol** 1996 Sep 19;312(1):27–33

Antiproliferative effect in rat vascular smooth muscle cells by osthole, isolated from Angelica pubescens. Guh JH, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):191–7

In vitro assessment for vascular selectivity of a new dihydropyridine derivative, NB–818. Hattori Y, et al. **Eur J Pharmacol** 1996 Apr 22;301(1–3):99–106

The effects of gamma 2–melanocyte–stimulating hormone and nimodipine on cortical blood flow and infarction volume in two rat models of middle cerebral artery occlusion. Herz RC, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1–3):113–21

Venodilator effects of pranidipine, a 1,4–dihydropyridine Ca2+ channel antagonist, in rats: comparison with nifedipine and amlodipine. Hirano T, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):201–4

Tranilast inhibits contraction of rat aortic smooth muscle. Ihara T, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):43–8

Protective effect of l–cis–diltiazem on hypercontracture of rat myocytes induced by veratridine. Itogawa E, et al. **Eur J Pharmacol** 1996 Dec 19;317(2–3):401–6

Effects of combined nimodipine and metrifonate on rat cognition and cortical EEG. Jäkälä P, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):239–50

Diltiazem derivatives modulate the dihydropyridine–binding to intact rat ventricular myocytes. Kanda S, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):101–7

Diltiazem inhibits naloxone–precipitated and spontaneous morphine withdrawal in rats. Kishioka S, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):7–14

Selectivity of felodipine for depolarized ventricular myocytes: a study at the single–cell level. Kohmoto O, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):355–63

A novel benzothiazine Ca2+ channel antagonist, semotiadil, inhibits cardiac L–type Ca2+ currents. Koidl B, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):243–7

Effects of a novel, potent benzothiazepine Ca2+ channel antagonist, DTZ323, on guinea–pig ventricular myocytes. Kurokawa J, et al. **Eur J Pharmacol** 1997 May 1; 325(2–3):229–36

Wide–spectrum Ca2+ channel antagonists': lipophilicity, inhibition, and recovery of secretion in chromaffin cells. Lara B, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):109–19

Flunarizine but not theophylline modulates inotropic responses of the isolated rat heart to diazepam. Leeuwin RS, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):153–7

Regulation of intracellular Ca2+ by 8–bromoguanosine 3',5'–cyclic monophosphate, felodipine and ryanodine in rat caudal artery. Lum Min SA, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):97–100

Dihydropyridine block of omega–agatoxin IVA– and omega–conotoxin GVIA–sensitive Ca2+ channels in rat pituitary melanotropic cells. Mansvelder HD, et al. **Eur J Pharmacol** 1996 Sep 12;311(2–3):293–304

Prevention by the new Ca2+ channel antagonist, AJ–3941, of loss of endothelium–dependent relaxation after subarachnoid hemorrhage in rats. Minato H, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):297–303

Relative selectivity for negative chronotropic and inotropic effects of a novel dihydropyridine derivative CD–832. Noguchi K, et al. **Eur J Pharmacol** 1996 Jul 11;308(1):53–9

The use of invertebrate peptide toxins to establish Ca2+ channel identity of CA3–CA1 neurotransmission in rat hippocampal slices. Nooney JM, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):41–50

Antidystonic effects of L–type Ca2+ channel antagonists in a hamster model of idiopathic dystonia. Richter A, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):197–202

Effects of combined chronic nimodipine and acute metrifonate treatment on spatial and avoidance behavior. Riekkinen M, et al. **Eur J Pharmacol** 1997 Mar 12; 322(1):1–9

Omega–agatoxin IVA blocks spinal morphine/clonidine antinociceptive synergism. Roerig SC, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):293–300

Block of Na+ channel by bepridil in isolated guinea–pig ventricular myocytes. Sato N, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):373–9

Regulation of protein kinases in steady–state contraction of cat gastric smooth muscle. Sim SS, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):205–10

Lamotrigine inhibits Ca2+ currents in cortical neurons: functional implications. Stefani A, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):113–6

In vitro studies on the interactions of beta2–adrenoceptor agonists, methylxanthines, Ca2+–channel blockers, K+–channel openers and other airway smooth muscle relaxants in isolated guinea–pig trachea. Thirstrup S, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):191–200

Mechanism of L– and T–type Ca2+ channel blockade by flunarizine in ventricular myocytes of the guinea–pig. Tytgat J, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):189–97

Distinct effects of omega–toxins and various groups of Ca(2+)–entry inhibitors on nicotinic acetylcholine receptor and Ca2+ channels of chromaffin cells. Villarroya M, et al. **Eur J Pharmacol** 1997 Feb 12;320(2–3):249–57

NH4Cl–induced contraction of porcine coronary artery involves activation of dihydropyridine–sensitive Ca2+ entry. Wakabayashi I, et al. **Eur J Pharmacol** 1996 Mar 28;299(1–3):139–47

Tetrandrine inhibits electrically induced [Ca2+]i transient in the isolated single rat cardiomyocyte. Wang HX, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):115–22

Distribution of N–type Ca2+ channel binding sites in rabbit brain following central administration of omega–conotoxin GVIA. Whorlow SL, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):11–8

Ionic mechanisms of tetrandrine in cultured rat aortic smooth muscle cells. Wu SN, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):233–8

Protein kinase C induced changes in human airway smooth muscle tone: the effects of Ca2+ and Na+ transport. Yang KX, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):65–71

Forskolin's structural analogue 1,9–dideoxyforskolin has Ca2+ channel blocker–like action in rat cerebellar granule cells. Zerr P, et al. **Eur J Pharmacol** 1996 May 6; 303(1–2):101–8

A calcium antagonistic effect of the new antiepileptic drug lamotrigine. von Wegerer J, et al. **Eur Neuropsychopharmacol** 1997 May;7(2):77–81

Effects of verapamil on skeletal muscle function following ischemia and reperfusion. Salm T, et al. **Eur Surg Res** 1996; 28(2):75–9

Effects of T–type, L–type, N–type, P–type, and Q–type calcium channel blockers on stimulus–induced pre– and postsynaptic calcium fluxes in rat hippocampal slices. Igelmund P, et al. **Exp Brain Res** 1996 Apr;109(1):22–32

In vitro evaluation of antiproliferative potential of calcium channel blockers in human Tenon's fibroblasts. Kang Y, et al. **Exp Eye Res** 1997 Jun;64(6):913–25

Differential inhibition by riluzole, lamotrigine, and phenytoin of sodium and calcium currents in cortical neurons: implications for neuroprotective strategies. Stefani A, et al. **Exp Neurol** 1997 Sep;147(1):115–22

Orthophosphate salts induce calcium current recovery from blockade by gadolinium in isolated guinea–pig ventricular myocytes. Le Guennec JY, et al. **Exp Physiol** 1996 Jul; 81(4):577–85

Comparison of ultra–slow, voltage–dependent inactivation of the cardiac L–type Ca2+ channel with Ca2+ or Ba2+ as the charge carrier in ferret ventricular myocytes. McMorn SO, et al. **Exp Physiol** 1996 Jul;81(4):565–75

Synthesis and pharmacological activities of some 2,3,4,5–tetrahydro[1,5]benzo[f]thiazepines. Saturnino C, et al. **Farmaco** 1997 Mar;52(3):183–6

Intracellular calcium overload in a model of quinolinic acid neurotoxicity in organotypic culture of rat hippocampus; inhibited by nimodipine. Matyja E. **Folia Neuropathol** 1997; 35(1):8–17

Effects of ion channel blockers on rapid postmortem changes in extracellular dopamine and serotonin levels in the rat nucleus accumbens. Yoshimoto K, et al. **Forensic Sci Int** 1997 Feb 7;85(1):29–39

Inhibitory effects of okadaic acid on rat uterine contractile responses to different spasmogens. Arteche ME, et al. **Fundam Clin Pharmacol** 1997;11(1):47–56

Involvement of a CCK–dependent capsaicin–sensitive afferent pathway in the inhibitory effect of pinaverium bromide on the colonic motor response to eating in rats. Fioramonti J, et al. **Fundam Clin Pharmacol** 1997; 11(3):231–6

Effect of efonidipine, a novel dihydropyridine derivative, on myocardial metabolic changes induced by coronary artery ligation in dogs: comparison with nifedipine. Yokoyama T, et al. **Fundam Clin Pharmacol** 1997;11(3):245–51

Regulation of melatonin synthesis in rainbow trout (Oncorhyncus mykiss) pineal organs: effects of calcium depletion and calcium channel drugs. Gasser PJ, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):210–7

Effects of extracellular calcium concentrations and calcium antagonists on vitellogenin induction by estradiol–17 beta in primary hepatocyte culture in the rainbow trout Oncorhynchus mykiss. Yeo IK, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):294–301

Influence of opiate tolerance and calcium channel antagonists on the antinociceptive effects of L–arginine and NG–nitro L–arginine. Contreras E, et al. **Gen Pharmacol** 1997 Mar; 28(3):443–8

Action of elgodipine on atherosclerosis development, cell growth, and oncogene expression in vascular smooth muscle cells. Del Rio M, et al. **Gen Pharmacol** 1997 Mar; 28(3):463–8

Effect of multiple administration of calcium antagonists on lipid peroxidation in rat liver microsomes. Koleva M, et al. **Gen Pharmacol** 1996 Jul;27(5):891–3

The role of nitric oxide in inhibitory neurotransmission in the middle cerebral artery of the sheep. Matthew JD, et al. **Gen Pharmacol** 1997 Mar;28(3):393–7

Modification of adrenergic reactivity in rat tail artery by dietary lipids and calcium channel antagonists. Okopień B, et al. **Gen Pharmacol** 1996 Jul;27(5):895–900

Pharmacological activity of the new calcium antagonist, lacidipine, on isolated preparations. Raddino R, et al. **Gen Pharmacol** 1996 Oct;27(7):1255–9

The antiplatelet aggregatory activity of Acacia nilotica is due to blockade of calcium influx through membrane calcium channels. Shah BH, et al. **Gen Pharmacol** 1997 Aug;29(2):251–5

Myocardial and vascular effects of efonidipine in vitro as compared with nifedipine, verapamil and diltiazem. Tanaka H, et al. **Gen Pharmacol** 1996 Apr;27(3):451–4

Influence of trifluoperazine and verapamil on the isolated perfused rat kidney. Weinschelbaum–Jairala S, et al. **Gen Pharmacol** 1996 Jul;27(5):911–5

Inhibition of voltage–dependent Ca2+ channels of porcine tracheal smooth muscle by the novel Ca2+ channel antagonist RWJ–22108. Yamakage M, et al. **Gen Pharmacol** 1997 May;28(5):689–94

Effect of gallopamil on excitation–contraction coupling. Zucchi R. **Gen Pharmacol** 1996 Jul;27(5):749–53 (55 ref.)

The 45Ca2+ uptake by Trichoderma viride mycelium. Correlation with growth and conidiation. Kryštofová S, et al. **Gen Physiol Biophys** 1995 Aug;14(4):323–7

Pharmacological analysis of voltage–dependent potassium currents in cultured skeletal myocytes of the frog Rana temporaria. Lukyanenko V, et al. **Gen Physiol Biophys** 1995 Dec;14(6):525–34

Comparative effect of the calcium antagonist verapamil and the synthetic steroids gestrinone and danazol on human monocyte phagocytosis in vitro. Magri B, et al. **Gynecol Obstet Invest** 1997;43(1):6–10

Time–varying alterations in the f2–f1 DPOAE response to continuous primary stimulation. II. Influence of local calcium–dependent mechanisms. Kujawa SG, et al. **Hear Res** 1996 Aug;97(1–2):153–64

Effects of pinacidil, verapamil, and heart rate on afterdepolarizations in the guinea–pig heart in vivo. Xu J, et al. **Heart Vessels** 1996;11(6):289–302

Altered hepatocellular Ca2+ regulation during hemorrhagic shock and resuscitation. Rose S, et al. **Hepatology** 1997 Feb;25(2):379–84

Effects of calcium channel blockers on steroidogenesis stimulated by ACTH and cAMP in isolated rat adrenal cells. Matsuki M, et al. **Horm Metab Res** 1996 Aug; 28(8):374–6

Antioxidant effects of calcium antagonists on rat myocardial membrane lipid peroxidation. Sugawara H, et al. **Hypertens Res** 1996 Dec;19(4):223–8

Converting enzyme inhibitor improves forearm reactive hyperemia in essential hypertension. Iwatsubo H, et al. **Hypertension** 1997 Jan;29(1 Pt 2):286–90

Endothelin antagonism in end–organ damage of spontaneously hypertensive rats. Comparison with angiotensin–converting enzyme inhibition and calcium antagonism. Karam H, et al. **Hypertension** 1996 Sep; 28(3):379–85

Effects of enalapril, losartan, and verapamil on blood pressure and glucose metabolism in the Cohen–Rosenthal diabetic hypertensive rat. Rosenthal T, et al. **Hypertension** 1997 Jun; 29(6):1260–4

Effects of an angiotensin–converting enzyme inhibitor, a calcium antagonist, and an endothelin receptor antagonist on renal afferent arteriolar structure. Skov K, et al. **Hypertension** 1996 Sep;28(3):464–71 (62 ref.)

Effect of Ca(2+)–channel blockers, Ca(2+)–ionophore and increased pyrene excimer formation on the microsomal glucose–6–phosphatase. Gupta A, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):272–8

Effect of verapamil on cadmium induced hypertension in rats. Puri VN. **Indian J Exp Biol** 1996 Dec;34(12):1268–70

Felodipine potentiates morphine analgesia in control and streptozotocin diabetic female rats. Rani MA, et al. **Indian J Exp Biol** 1996 Jul;34(7):663–6

Deterioration of carbohydrate metabolism by nifedipine. Gupta N, et al. **Indian J Med Sci** 1996 Jun;50(6):201–3

Interaction of calcium channel blockers with different agonists in aorta from normal and diseased rats. Bhugra P, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):109–19

Interaction of calcium channel blockers (CCBs) with histamine and 5–hydroxytryptamine in aorta from normal and diseased rats. Bhugra P, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):120–6

Effect of pre–treatment of some calcium channel blockers on catalepsy and stereotypic behaviour in rats. Khanzode SD, et al. **Indian J Physiol Pharmacol** 1996 Apr; 40(2):159–62

Effect of nitrendipine, nimodipine and nisoldipine on water and electrolytes excretion in rats. Singh J, et al. **Indian J Physiol Pharmacol** 1996 Jan;40(1):87–90

Effect of antiepileptic drugs and calcium channel blocker on hyperthermic seizures in rats: animal model for hot water epilepsy. Ullal GR, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):303–8

Effects of the dihydropyridine calcium channel blocker amlodipine on ventricular and atrial protein synthesis in an aortic constriction model of hypertension and, following chronic treatment, in the left ventricle of SHR rats. Patel VB, et al. **Int J Cardiol** 1997 Feb;58(3):241–55

Effects of intracoronary diltiazem on certain hemostatic parameters during acute myocardial infarction in swine. Serebruany VL, et al. **Int J Cardiol** 1997 Aug 29;61(1):21–9

Effect of physostigmine and verapamil on active avoidance in an experimental model of Alzheimer's disease. Popović M, et al. **Int J Neurosci** 1997 Jun;90(1–2):87–97

Bepridil exacerbates glutamate–induced deterioration of calcium homeostasis and cultured nerve cell injury. Storozhevykh TP, et al. **Int J Neurosci** 1996 Dec; 88(3–4):199–214

Effect of NS–21, an anticholinergic drug with calcium antagonistic activity, on lower urinary tract function in a rat model of urinary frequency. Sasaki Y, et al. **Int J Urol** 1997 Jul;4(4):401–6

Calcium antagonists: their role in neuroprotection. Hunter AJ. **Int Rev Neurobiol** 1997;40:95–108 (62 ref.)

The effects of diltiazem on superior mesenteric artery

ligation. An experimental study. Topaloğlu U, et al. **Int Surg** 1996 Oct–Dec;81(4):374–6

Verapamil inhibits to different extents agonist–induced Ca2+ transients in human tumor cells and in vitro tumor cell growth. Brocchieri A, et al. **Invasion Metastasis** 1996; 16(2):56–64

Differential effects of diltiazem and nitroglycerin on cytosolic Ca2+ concentration and on force in the bovine ophthalmic artery. Hiroishi G, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2612–23

Comparison of the effects of diltiazem and aspirin on platelet aggregation in cats. Behrend EN, et al. **J Am Anim Hosp Assoc** 1996 Jan–Feb;32(1):11–8

Preservation of endogenous antioxidant activity and inhibition of lipid peroxidation as common mechanisms of antiatherosclerotic effects of vitamin E, lovastatin and amlodipine. Chen L, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):569–75

N–type calcium channel blockers from a marine bacterium, Cytophaga sp. SANK 71996. Morishita T, et al. **J Antibiot (Tokyo)** 1997 Jun;50(6):457–68

Effect of calcium channel blockers on the action of various antitumour agents in the yeast Saccharomyces cerevisiae. Tillgada E, et al. **J Appl Bacteriol** 1996 Nov;81(5):481–5

L–type Ca2+ channel and Na+/Ca2+ exchange inhibitors reduce Ca2+ accumulation in reperfused skeletal muscle. Welsh DG, et al. **J Appl Physiol** 1996 Apr;80(4):1263–9

Effects of calcium channel blockers on cultured rat embryos. Ban Y, et al. **J Appl Toxicol** 1996 Mar–Apr;16(2):147–51

Pharmacological modulation of electromechanical coupling in the proximal and distal regions of the guinea–pig renal pelvis. Santicioli P, et al. **J Auton Pharmacol** 1997 Feb; 17(1):43–52

Membrane properties of mouse anteroventral cochlear nucleus neurons in vitro. Agar E, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):179–98

A novel small conductance Ca2+–activated K+ channel blocker from Oxyuranus scutellatus taipan venom. Re–evaluation of taicatoxin as a selective Ca2+ channel probe. Doorty KB, et al. **J Biol Chem** 1997 Aug 8; 272(32):19925–30

Transfer of high sensitivity for benzothiazepines from L–type to class A (BI) calcium channels. Hering S, et al. **J Biol Chem** 1996 Oct 4;271(40):24471–5

Molecular determinants of high affinity phenylalkylamine block of L–type calcium channels in transmembrane segment IIIS6 and the pore region of the alpha1 subunit. Hockerman GH, et al. **J Biol Chem** 1997 Jul 25; 272(30):18759–65

The mechanism of inhibition of ryanodine receptor channels by imperatoxin I, a heterodimeric protein from the scorpion Pandinus imperator. Zamudio FZ, et al. **J Biol Chem** 1997 May 2;272(18):11886–94

The 1996 Lindberg Award. Calcium antagonists alter cell shape and induce procollagenase synthesis in keloid and normal human dermal fibroblasts. Doong H, et al. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):497–514 (19 ref.)

Effects on renal function of a continuous infusion of nifedipine during cardiopulmonary bypass. Bertolissi M, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):238–42

Lidocaine and nisoldipine attenuate almokalant–induced dispersion of repolarization and early afterdepolarizations in vitro. Abrahamsson C, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1074–81

Azimilide (NE–10064) can prolong or shorten the action potential duration in canine ventricular myocytes: dependence on blockade of K, Ca, and Na channels. Yao JA, et al. **J Cardiovasc Electrophysiol** 1997 Feb;8(2):184–98

The cardiac and vascular effects of lacidipine. Agabiti–Rosei E. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S1–5 (17 ref.)

Effect of the new calcium antagonist lercanidipine and its enantiomers on the migration and proliferation of arterial myocytes. Corsini A, et al. **J Cardiovasc Pharmacol** 1996 Nov;28(5):687–94

Effects of the novel T–type calcium channel antagonist mibefradil on human myocardial contractility in comparison with nifedipine and verapamil. Cremers B, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):692–6

Chronic nifedipine treatment diminishes cardiac inotropic response to nifedifine: functional upregulation of dihydropyridine receptors. de Cingolani GE, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):240–6

Endothelin–1 inhibits L–type Ca2+ current enhanced by isoprenaline in rat atrial myocytes. Delpech N, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):136–43

Inhibitory effects of efonidipine hydrochloride on contraction induced by several vasoconstrictors in porcine coronary artery: comparison with effects of nifedipine and nisoldipine. Higashino R, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):624–30

Effects of mibefradil on large and small coronary arteries in conscious dogs: role of vascular endothelium. Karila–Cohen D, et al. **J Cardiovasc Pharmacol** 1996 Aug; 28(2):271–7

Effect of calcium channel blockade or angiotensin–converting enzyme inhibition on structure of coronary, renal, and other small arteries in spontaneously hypertensive rats. Li JS, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):68–74

Evidence of increased sympathetic vasomotor drive with shorter acting dihydropyridine calcium channel antagonists in human hypertension: a study using spectral analysis of RR interval and systolic arterial pressure variability. Lucini D, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):676–83

Sympatholysis after neuron–specific, N–type, voltage–sensitive calcium channel blockade: first demonstration of N–channel function in humans. McGuire D, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):400–3

Pharmacological studies on a new antihypertensive agent, S–2150, a benzothiazepine derivative: 1. Antinecrotic and antiarrhythmic effects in reperfused rat hearts. Masui M, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):526–32

Electrophysiological effects of clentiazem, a new Ca2+ antagonist, on rabbit hearts. Miyazaki K, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):615–21

Effect of mibefradil on left ventricular diastolic function in patients with congestive heart failure. Muntinga HJ, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):652–6

Effects of aranidipine, a novel calcium channel blocker, on mechanical responses of the isolated rat portal vein: comparison with typical calcium channel blockers and potassium channel openers. Okumura K, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):209–15

Cardioprotective and hypolipidemic effects of nisoldipine in the JCR:LA–cp rat. Russell JC, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):586–92

Prolonged cardiovascular effects of the N–type Ca2+ channel antagonist omega–conotoxin GVIA in conscious rabbits. Wright CE, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):392–9

In vivo uptake of [3H]nimodipine into brain during cortical spreading depression. Osuga S, et al. **J Cereb Blood Flow Metab** 1997 May;17(5):586–90

The effects of SB 206284A, a novel neuronal calcium–channel antagonist, in models of cerebral ischemia. Wood NI, et al. **J Cereb Blood Flow Metab** 1997 Apr; 17(4):421–9

GA strategy for variable selection in QSAR studies: GA–based PLS analysis of calcium channel antagonists. Hasegawa K, et al. **J Chem Inf Comput Sci** 1997 Mar–Apr; 37(2):306–10

Oxygen–induced constriction of rabbit ductus arteriosus occurs via inhibition of a 4–aminopyridine–, voltage–sensitive potassium channel [see comments] Tristani–Firouzi M, et al. **J Clin Invest** 1996 Nov 1; 98(9):1959–65. Comment in: J Clin Invest 1996 Nov 1;98(9):1945–6.

Effects of benidipine hydrochloride on antioxidant enzyme activity in stroke–prone spontaneous hypertensive rats (SHR–SP). Shou I, et al. **J Clin Lab Anal** 1997;11(3):158–62

Pharmacokinetic interactions of moricizine and diltiazem in healthy volunteers. Shum L, et al. **J Clin Pharmacol** 1996 Dec;36(12):1161–8

Modifications in the evolution of the dominant frequency in ventricular fibrillation induced by amiodarone, diltiazem, and flecainide. An experimental study. Chorro FJ, et al. **J Electrocardiol** 1996 Oct;29(4):319–26

Effect of extracorporeal shockwave lithotripsy on plasma and urine endothelin concentrations. Esen AA, et al. **J Endourol** 1996 Aug;10(4):325–7

Involvement of calcium in the cardiac depressant actions of a garlic dialysate. Martin N, et al. **J Ethnopharmacol** 1997 Jan;55(2):113–8

A dihydropyridine–sensitive voltage–dependent calcium channel in the sarcolemmal membrane of crustacean muscle. Erxleben C, et al. **J Gen Physiol** 1997 Mar; 109(3):313–26

Block of single L–type Ca2+ channels in skeletal muscle fibers by aminoglycoside antibiotics. Haws CM, et al. **J Gen Physiol** 1996 Mar;107(3):421–32

Fast activation of dihydropyridine–sensitive calcium channels of skeletal muscle. Multiple pathways of channel gating. Ma J, et al. **J Gen Physiol** 1996 Sep;108(3):221–32

Optic nerve head circulation after topical calcium channel blocker. Netland PA, et al. **J Glaucoma** 1996 Jun;5(3):200–6

Diltiazem preserves direct vasodilator response but fails to suppress intimal proliferation in rat allograft coronary artery disease. Takami H, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):67–77

Effects of an ACE inhibitor combined with a calcium channel blocker on progression of diabetic nephropathy. Bakris G, et al. **J Hum Hypertens** 1997 Jan;11(1):35–8 (35 ref.)

Influence of nifedipine on pressor responses induced by different alpha–adrenoceptor agonists and angiotensin II in pithed diabetic hypertensive rats. Beenen OH, et al. **J Hypertens** 1996 Jul;14(7):847–53

Modulation of endothelial function: strategy for long–term cardiovascular protection. Haller H. **J Hypertens Suppl** 1996 Nov;14(4):S27–32 (81 ref.)

Assessing renal effects and renal protection. Rodicio JL, et al. **J Hypertens Suppl** 1995 Dec;13(4):S19–25 (80 ref.)

Effect of the calcium channel blocker nilvadipine on urinary albumin excretion in hypertensive microalbuminuric patients with non–insulin–dependent diabetes mellitus. Sumida Y, et al. **J Int Med Res** 1997 May–Jun;25(3):117–26

Effects of calcium antagonists on contractions of chorionic arteries in normal and preeclampsia placenta. Kook H, et al. **J Korean Med Sci** 1996 Jun;11(3):250–7

Inhibition of thyroid hormone uptake by calcium antagonists of the dihydropyridine class. Scholz GH, et al. **J Med Chem** 1997 May 9;40(10):1530–8

Synthesis, biological evaluation, calcium channel antagonist activity, and anticonvulsant activity of felodipine coupled to a dihydropyridine–pyridinium salt redox chemical delivery system. Yiu S, et al. **J Med Chem** 1996 Nov 8; 39(23):4576–82

How safe are calcium channel antagonists [editorial] Birbari AE. **J Med Liban** 1995;43(3):120–1

Alkaline pH and internal calcium increase Na+ and K+ effluxes in LK sheep red blood cells in Cl—free solutions. Ortiz–Carranza O, et al. **J Membr Biol** 1997 Apr 1; 156(3):287–95

Characterization of a neuronal delayed rectifier K current permeant to Cs and blocked by verapamil. Trequattrini C, et al. **J Membr Biol** 1996 Nov;154(2):143–53

Cardioprotective actions of verapamil on the beta–adrenergic receptor complex in acute canine Chagas' disease. Chen G, et al. **J Mol Cell Cardiol** 1996 May;28(5):931–41

Effects of calcium channel antagonists on Ca2+ transients in rat and canine cardiomyocytes. Hensley J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1037–43

Cyclic nucleotides regulate the activity of L–type calcium channels in smooth muscle cells from rat portal vein. Liu H, et al. **J Mol Cell Cardiol** 1997 May;29(5):1411–21

No attenuation of ischaemic preconditioning by the calcium antagonist nisoldipine. Wallbridge DR, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1801–10

Influence of nicardipine, nimodipine and flunarizine on the anticonvulsant efficacy of antiepileptics against pentylenetetrazol in mice. Gasior M, et al. **J Neural Transm Gen Sect** 1996;103(7):819–31

Modulation of the dihydropyridine–sensitive calcium channels in Drosophila by a phospholipase C–mediated pathway. Gu GG, et al. **J Neurobiol** 1997 Sep;33(3):265–75

Alpha 1D L–type Ca(2+)–channel currents: inhibition by a beta–adrenergic agonist and pituitary adenylate cyclase–activating polypeptide (PACAP) in rat pinealocytes. Chik CL, et al. **J Neurochem** 1997 Mar; 68(3):1078–87

Depolarization and activation of dihydropyridine–sensitive Ca2+ channels stimulate inositol phosphate accumulation in photoreceptor–enriched chick retinal cell cultures. Gan J, et al. **J Neurochem** 1997 Jun;68(6):2300–7

Novel omega–conotoxins block dihydropyridine–insensitive high voltage–activated calcium channels in molluscan neurons. Kits KS, et al. **J Neurochem** 1996 Nov; 67(5):2155–63

The amyloid beta–protein of Alzheimer's disease increases acetylcholinesterase expression by increasing intracellular calcium in embryonal carcinoma P19 cells. Sberna G, et al. **J Neurochem** 1997 Sep;69(3):1177–84

Mechanisms of inhibition of calmodulin–stimulated cyclic nucleotide phosphodiesterase by dihydropyridine calcium antagonists. Sharma RK, et al. **J Neurochem** 1997 Aug; 69(2):845–50

Actions of neurotoxic beta–amyloid on calcium homeostasis and viability of PC12 cells are blocked by antioxidants but not by calcium channel antagonists. Zhou Y, et al. **J Neurochem** 1996 Oct;67(4):1419–25

Nimodipine maintains in vivo the increase in GFAP and enhances the astroglial ensheathment of surviving motoneurons in the rat following permanent target deprivation. Guntinas–Lichius O, et al. **J Neurocytol** 1997 Apr;26(4):241–8

Adenosine inhibits L– and N–type calcium channels in pituitary melanotrophs. Evidence for the involvement of a G protein in calcium channel gating. Mei YA, et al. **J Neuroendocrinol** 1996 Feb;8(2):85–91

Effects of the calcium channel blockers Dotarizine and Flunarizine on cerebrovascular reactivity. Czernicki Z, et al. **J Neurol Sci** 1996 Nov;143(1–2):60–3

Nimodipine improves brain energy metabolism and blood rheology during ischemia and reperfusion in the gerbil brain. Ichihara S, et al. **J Neurol Sci** 1996 Dec; 144(1–2):84–90

A strategy for selective anti–cancer drug concentration increase in rat glioma tissue with Ca(2+)–channel blocker co–administration: calcium kinetics in intra–glioma arteriolar smooth muscle cells. Zenke K, et al. **J Neurooncol** 1996 Oct;30(1):25–36

Ca2+ channel antagonist U–92032 inhibits both T–type Ca2+ channels and Na+ channels in hippocampal CA1 pyramidal neurons. Avery RB, et al. **J Neurophysiol** 1997 Feb;77(2):1023–8

Effects of serotonin on caudal raphe neurons: inhibition of N– and P/Q–type calcium channels and the afterhyperpolarization. Bayliss DA, et al. **J Neurophysiol** 1997 Mar;77(3):1362–74

Glutamate and N–acetylaspartylglutamate block HVA calcium currents in frog olfactory bulb interneurons via an mGluR2/3–like receptor. Bischofberger J, et al. **J Neurophysiol** 1996 Sep;76(3):2089–92

Calcium channel currents in acutely dissociated intracardiac neurons from adult rats. Jeong SW, et al. **J Neurophysiol** 1997 Apr;77(4):1769–78

Dihydropyridine–sensitive, voltage–gated Ca2+ channels contribute to the resting intracellular Ca2+ concentration of hippocampal CA1 pyramidal neurons. Magee JC, et al. **J Neurophysiol** 1996 Nov;76(5):3460–70

Effects of N– and L–type calcium channel antagonists on the responses of nociceptive spinal cord neurons to mechanical stimulation of the normal and the inflamed knee joint. Neugebauer V, et al. **J Neurophysiol** 1996 Dec; 76(6):3740–9

Intracellular QX–314 inhibits calcium currents in

hippocampal CA1 pyramidal neurons. Talbot MJ, et al. **J Neurophysiol** 1996 Sep;76(3):2120–4

Reducing extracellular Cl– suppresses dihydropyridine-sensitive Ca2+ currents and synaptic transmission in amphibian photoreceptors. Thoreson WB, et al. **J Neurophysiol** 1997 Apr;77(4):2175–90

Muscarine inhibits omega-conotoxin-sensitive calcium channels in a voltage- and time-dependent mode in the human neuroblastoma cell line SH-SY5Y. Toselli M, et al. **J Neurophysiol** 1995 Oct;74(4):1730–41

Diltiazem blocks the PH-induced excitation of rat nociceptors together with their mechanical and electrical excitability in vitro. Wegner H, et al. **J Neurophysiol** 1996 Jan;75(1):1–10

Dihydropyridine- and neurotoxin-sensitive and -insensitive calcium currents in acutely dissociated neurons of the rat central amygdala. Yu B, et al. **J Neurophysiol** 1997 Feb; 77(2):690–701

Speed of Ca2+ channel modulation by neurotransmitters in rat sympathetic neurons. Zhou J, et al. **J Neurophysiol** 1997 Apr;77(4):2040–8

Calcineurin modulates G protein-mediated inhibition of N-type calcium channels in rat sympathetic neurons. Zhu Y, et al. **J Neurophysiol** 1997 Aug;78(2):1161–5

Comparison of N- and P/Q-type voltage-gated calcium channel current inhibition. Currie KP, et al. **J Neurosci** 1997 Jun 15;17(12):4570–9

cAMP-dependent enhancement of dihydropyridine-sensitive calcium channel availability in hippocampal neurons. Kavalali ET, et al. **J Neurosci** 1997 Jul 15;17(14):5334–48

Preferential interaction of omega-conotoxins with inactivated N-type Ca2+ channels. Stocker JW, et al. **J Neurosci** 1997 May 1;17(9):3002–13

Functional diversity of P-type and R-type calcium channels in rat cerebellar neurons. Tottene A, et al. **J Neurosci** 1996 Oct 15;16(20):6353–63

The monomeric G-proteins Rac1 and/or Cdc42 are required for the inhibition of voltage-dependent calcium current by bradykinin. Wilk-Blaszczak MA, et al. **J Neurosci** 1997 Jun 1;17(11):4094–100

Inhibition of high K+ and norepinephrine-induced free intracellular calcium by tetrandrine in dissociated rabbit retina cells. Xuan B, et al. **J Ocul Pharmacol Ther** 1996 Summer;12(2):151–8

Effect of nifedipine on the elimination of theophylline in the rabbit subjected to hypoxia or to an inflammatory reaction. Barakat M, et al. **J Pharm Pharmacol** 1996 Sep;48(9):906–10

Modification of Ca2+ metabolism in the rabbit aorta as a mechanism of spasmolytic action of warifteine, a bisbenzylisoquinoline alkaloid isolated from the leaves of Cissampelos sympodialis Eichl. (Menispermaceae). De Freitas MR, et al. **J Pharm Pharmacol** 1996 Mar;48(3):332–6

Catalepsy induced by manidipine, a calcium channel blocker, in mice. Haraguchi K, et al. **J Pharm Pharmacol** 1996 Apr; 48(4):429–32

The effect of the calcium antagonist nimodipine on the detoxification of soman in anaesthetized rabbits. Karlsson BM, et al. **J Pharm Pharmacol** 1997 Mar;49(3):296–300

Portal hypotensive effects of tetrandrine and verapamil in portal hypertensive rats. Liu TB, et al. **J Pharm Pharmacol** 1997 Jan;49(1):85–8

Influence of certain calcium-channel blockers on some aspects of lorazepam-dependence in mice. Saad SF, et al. **J Pharm Pharmacol** 1997 Mar;49(3):322–8

Full reversal of Pb++ block of L-type Ca++ channels requires treatment with heavy metal antidotes. Bernal J, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):172–80

Effect of cilnidipine, a novel dihydropyridine Ca++-channel antagonist, on N-type Ca++ channel in rat dorsal root ganglion neurons. Fujii S, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1184–91

Possible mechanism of action of AE0047, a calcium antagonist, on triglyceride metabolism. Hayashi K, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):882–90

Effects of the neuroprotective agent riluzole on the high voltage-activated calcium channels of rat dorsal root ganglion neurons. Huang CS, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1280–90

Vasodilator action of calcium antagonists in coronary arteries in vitro. Kalsner S. **J Pharmacol Exp Ther** 1997 May; 281(2):634–42

Protein kinase A regulates regulates inhibition of N- and P/Q-type calcium channels by ethanol in PC12 cells. Solem M, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1487–95

Differential effects of omega-conotoxin GVIA, nimodipine, calmidazolium and KN-62 injected intrathecally on the antinociception induced by beta-endorphin, morphine and [D-Ala2,N-MePhe4,Gly-ol5]-enkephalin administered intracerebroventricularly in the mouse. Suh HW, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):961–6

Quantification of rate-dependent effects of verapamil, diltiazem, and digoxin on atrioventricular conduction. Schwarzl I, et al. **J Pharmacol Toxicol Methods** 1996 Dec; 36(4):205–10

Effects of verapamil and diltiazem on the ventricular rate during simulated atrial flutter in isolated guinea pig hearts. Stark U, et al. **J Pharmacol Toxicol Methods** 1996 Aug; 35(4):203–9

Outward currents in smooth muscle cells isolated from sheep mesenteric lymphatics. Cotton KD, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):1–11

Effect on the fura-2 transient of rapidly blocking the Ca2+ channel in electrically stimulated rabbit heart cells. Levi AJ, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):19–37

Extracellular divalent cations block a cation non-selective conductance unrelated to calcium channels in rat cardiac muscle. Mubagwa K, et al. **J Physiol (Lond)** 1997 Jul 15; 502 (Pt 2):235–47

Effects of calcium channel antagonists on the reinforcing properties of morphine, ethanol and cocaine as measured by place conditioning. Biała G, et al. **J Physiol Pharmacol** 1996 Sep;47(3):497–502

Does melatonin affect calcium influx in human aortic smooth muscle cells and estradiol-mediated calcium antagonism? Mück AO, et al. **J Pineal Res** 1996 Apr;20(3):145–7

Effects of sodium and calcium channel blockade on cytosolic calcium oscillations and phasic contractions of myometrial tissue. Phillippe M, et al. **J Soc Gynecol Investig** 1997 Mar-Apr;4(2):72–7

Differential effect of two calcium channel blockers--nifedipine and diltiazem--on atherogenesis in hypercholesterolemic hamster. Raicu M, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):265–75

Nifedipine protects small intestine from cyclosporine-induced hemodynamic and functional impairment. Sun S, et al. **J Surg Res** 1997 May;69(2):295–9

Effects of tetrandrine on cardiac noradrenaline release evoked by electrical stimulation. Feng Y, et al. **J Tongji Med Univ** 1996;16(2):103–5

Effect of nicardipine, a calcium antagonist, on induction of peroxisomal enzymes by dehydroepiandrosterone sulfate in cultured rat hepatocytes. Zhang H, et al. **J Toxicol Sci** 1996 Nov;21(4):235–41

Potentiation of acetylcholine-induced responses in freshly isolated rabbit aortic endothelial cells. Wang X, et al. **J Vasc Res** 1996 Sep-Oct;33(5):414–24

Caffeine induces ventricular tachyarrhythmias possibly due to triggered activity in rabbits in vivo. Ishida S, et al. **Jpn Circ J** 1996 Mar;60(3):157–65

Effects of various doses of intracoronary diltiazem on coronary resistance vessels in humans. Ishihara M, et al. **Jpn Circ J** 1995 Dec;59(12):790–8

Cardiovascular and renal effects of the combination of felodipine and metoprolol during a high-salt and a moderate-salt diet in spontaneously hypertensive rats. Mervaala EM, et al. **Jpn Circ J** 1997 May;61(5):421–31

Nicardipine modification of endothelin-1 effects on visual evoked potential. Ota M, et al. **Jpn J Ophthalmol** 1997 Jan-Feb;41(1):38–42

Time-course of changes in nicardipine effects on microcirculation in retina and optic nerve head in living rabbit eyes. Tamaki Y, et al. **Jpn J Ophthalmol** 1996; 40(2):202–11

Negative chronotropic and inotropic effects of U-92032, a novel T-type Ca2+ channel blocker, on the isolated, blood-perfused dog atrium. Lakhe M, et al. **Jpn J Pharmacol** 1996 Aug;71(4):333–5

Molecular pharmacology of voltage-dependent calcium channels. Mori Y, et al. **Jpn J Pharmacol** 1996 Oct; 72(2):83–109 (262 ref.)

Effects of omega-conotoxin GVIA on the activation of capsaicin-sensitive afferent sensory nerves in guinea pig airway tissues. Morimoto H, et al. **Jpn J Pharmacol** 1996 Jun;71(2):161–6

Novel blockade of Ca2+ current by quinacrine in smooth muscle cells of the guinea pig. Nagano N, et al. **Jpn J Pharmacol** 1996 May;71(1):51–60

Application of physiologically active substances isolated from natural resources to pharmacological studies. Ohizumi Y. **Jpn J Pharmacol** 1997 Apr;73(4):263–89 (142 ref.)

Hypotensive effects of YM430, a 1,4-dihydropyridine derivative, in spontaneously hypertensive rats and renal hypertensive dogs. Shibasaki K, et al. **Jpn J Pharmacol** 1997 Feb;73(2):113–24

Antianginal effect of RS-5773, a diltiazem congener, in the methacholine-induced anginal model in rats. Shiga H, et al. **Jpn J Pharmacol** 1996 Dec;72(4):365–74

Ca2+ depletion facilitates taurine release in cultured rat astrocytes. Takuma K, et al. **Jpn J Pharmacol** 1996 Sep; 72(1):75–8

Efonidipine, a long-acting dihydropyridine derivative, attenuates coronary vasoconstriction induced by endothelin-1 in dogs. Yokoyama T, et al. **Jpn J Pharmacol** 1996 Dec;72(4):291–7

Reversal of the antinatriuretic effect of prostaglandin E2 by verapamil in the rat. Peng Y, et al. **Kidney Blood Press Res** 1996;19(2):115–20

Diverse effects of calcium antagonists on glomerular hemodynamics. Arima S, et al. **Kidney Int Suppl** 1996 Jun; 55:S132–4

Calcium channel blockade reduces noise-induced vascular permeability in cochlear stria vascularis. Goldwyn BG, et al. **Laryngoscope** 1997 Aug;107(8):1112–6

A new type of Ca-channel modulation by a novel class of 1,4-dihydropyridines. Bechem M, et al. **Life Sci** 1997; 60(2):107–18

Effect of different calcium channel blockers on inhibitory junction potentials and slow waves in porcine ileum. Borderies JR, et al. **Life Sci** 1997;60(12):883–92

Drugs acting on calcium channels modulate the diuretic and micturition effects of dexmedetomidine in rats. Horváth G, et al. **Life Sci** 1996;59(15):1247–57

Tetrandrine, a calcium antagonist of Chinese herbal origin, interacts with vascular muscle alpha 1-adrenoceptor. Kwan CY, et al. **Life Sci** 1996;59(23):PL 359–64

Effects of anandamide on gestation in pregnant rats. Wenger T, et al. **Life Sci** 1997;60(26):2361–71

Chronic treatment with antidepressants, verapamil, or lithium inhibits the serotonin-induced intracellular calcium response in individual C6 rat glioma cells. Yamaji T, et al. **Life Sci** 1997;60(11):817–23

Hepatotoxicity of ethanol: protective effect of calcium channel blockers in isolated hepatocytes. Cobreros A, et al. **Liver** 1997 Apr;17(2):76–82

Effects of nifedipine and nicardipine on regional cerebral blood flow distribution in patients with arterial hypertension. Akopov SE, et al. **Methods Find Exp Clin Pharmacol** 1996 Dec;18(10):685–92

Epileptogenic activity induced by combined treatment with antiinflammatory drugs and enoxacin and its inhibition by a calcium antagonist, nicardipine. Kamei C, et al. **Methods Find Exp Clin Pharmacol** 1996 Nov;18(9):579–88

Blood pressure and cationic transport systems during combined calcium channel blocker and calcium administration in males. Lijnen P, et al. **Methods Find Exp Clin Pharmacol** 1996 May;18(4):287–94

Comparative antioxidant effects of beta-adrenoceptor blockers, calcium antagonists and U-74500A against iron-dependent lipid peroxidation in murine ventricular microsomal membranes. Reddy DS, et al. **Methods Find Exp Clin Pharmacol** 1996 Nov;18(9):559–67

Study of in vitro and in vitro effects of isradipine in skeletal muscles and interaction with some drugs. Singh YN, et al. **Methods Find Exp Clin Pharmacol** 1996 Oct; 18(8):499–506

Effect of TaiCatoxin (TCX) on the electrophysiological, mechanical and biochemical characteristics of spontaneously beating ventricular cardiomyocytes. Fantini E, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:61–6

Thapsigargin-induced gene expression in nonexcitable cells is dependent on calcium influx. Rodland KD, et al. **Mol Endocrinol** 1997 Mar;11(3):281–91

Inhibition of recombinant Ca2+ channels by benzothiazepines and phenylalkylamines: class-specific pharmacology and underlying molecular determinants. Cai D, et al. **Mol Pharmacol** 1997 May;51(5):872–81

Direct inhibition of 5-hydroxytryptamine3 receptors by antagonists of L-type Ca2+ channels. Hargreaves AC, et al. **Mol Pharmacol** 1996 Nov;50(5):1284–94

Distinct effects of mutations in transmembrane segment IVS6 on block of L-type calcium channels by structurally similar phenylalkylamines. Johnson BD, et al. **Mol Pharmacol** 1996 Nov;50(5):1388–400

Functional coupling of rat group II metabotropic glutamate receptors to an omega-conotoxin GVIA-sensitive calcium channel in human embryonic kidney 293 cells. McCool BA, et al. **Mol Pharmacol** 1996 Oct;50(4):912–22

Purification of a new dimeric protein from Cliona vastifica sponge, which specifically blocks a non-L-type calcium channel in mouse duodenal myocytes. Morel JL, et al. **Mol Pharmacol** 1997 Jun;51(6):1042–52

Blockade of DNA synthesis induced by platelet-derived growth factor by tranilast, an inhibitor of calcium entry, in vascular smooth muscle cells. Nie L, et al. **Mol Pharmacol** 1996 Oct;50(4):763–9

Block of high-threshold calcium channels by the synthetic polyamines sFTX-3.3 and FTX-3.3. Norris TM, et al. **Mol Pharmacol** 1996 Oct;50(4):939–46

Voltage-dependent inhibition of Ca2+ channels in GH3 cells by cloned mu- and delta-opioid receptors. Piros ET, et al. **Mol Pharmacol** 1996 Oct;50(4):947–56

The structure of a novel insecticidal neurotoxin, omega-atracotoxin-HV1, from the venom of an Australian funnel web spider. Fletcher JI, et al. **Nat Struct Biol** 1997 Jul;4(7):559–66

Effects of mibefradil on intracellular Ca2+ release in cultured rat cardiac fibroblasts and human platelets. Eberhard M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):94–101

Cardiac electrophysiological actions of NS-21 and its active metabolite, RCC-36, compared with terodiline. Hayashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):651–8

Inhibitory effects of NS-21, a novel drug for urinary incontinence, and its active metabolite, RCC-36, on L-type calcium currents in isolated guinea pig detrusor smooth muscle cells. Hayashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):659–66

Involvement of both L- and N-type voltage-dependent Ca2+ channels in KCl- and veratridine-evoked transmitter release from non-adrenergic, non-cholinergic nerves in the rabbit iris sphincter muscle. Kageyama M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):638–44

SK & F 96365 inhibits carbachol-induced phosphoinositide turnover in human neuroblastoma SH-SY5Y and rat cerebellar granule cells. Lin WW, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):53–8

Contribution of aranidipine metabolites with slow binding kinetics to the vasodilating activity of aranidipine. Miyoshi K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):119–25

Kinetics and state-dependent effects of verapamil on cardiac

L-type calcium channels. Nawrath H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):79–86

A complex interaction between topical verapamil and timolol on intraocular pressure in conscious rabbits. Santafé J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):198–204

A long-lasting hypotensive effect of topical diltiazem on the intraocular pressure in conscious rabbits. Santafé J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):645–50

Two stable cell lines for screening of calcium channel blockers. Seisenberger C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 352(6):662–9

Effects of 8-(N-N-diethylamino)octyl-3,4,5-trimethoxybenzoate hydrochloride (TMB-8) on skinned myocardial fibres of the rat: reversible inhibition of calcium release from the sarcoplasmic reticulum. Takahashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):650–5

Effects of the putative P-type calcium channel blocker, R,R-(-)-daurisoline on neurotransmitter release. Waldmeier PC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 352(6):670–8

Calcium channel blockers: what they can and what they can't do. Menè P. **Nephrol Dial Transplant** 1997 Jan;12(1):25–8 (20 ref.)

Blood pressure independent effects of nitrendipine on cardiac structure in patients after renal transplantation. Rockstroh JK, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1441–7

Amlodipine prevents and reverses the elevation in [Ca2+]i and the impaired phagocytosis of PMNL of diabetic rats [see comments] Seyrek N, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):265–72. Comment in: Nephrol Dial Transplant 1997 Feb;12(2):248–9.

A calcium-channel blocker, amlodipine, attenuates insulin antinatriuresis but does not modulate insulin-mediated attenuation of cardiovascular reactivity in healthy man. Stenvinkel P, et al. **Nephrol Dial Transplant** 1997 Aug; 12(8):1600–7

Nifedipine can preserve renal function in patients undergoing aortic surgery with infrarenal crossclamping. Antonucci F, et al. **Nephron** 1996;74(4):668–73

Effect of alpha-adrenergic blockers, ACE inhibitors, and calcium channel antagonists on renal function in hypertensive non-insulin-dependent diabetic patients. Giordano M, et al. **Nephron** 1996;72(3):447–53

Derangement of pH homeostasis in the renal papilla: ochratoxin A increases pH in vasa recta blood. Kuramochi G, et al. **Nephron** 1997;76(4):472–6

5-Hydroxytryptamine-evoked [Ca2+]i oscillations in rat C6 glioma cells. Cholewinski AJ, et al. **Neurochem Int** 1996 May-Jun;28(5–6):583–9

Modulation of potassium-evoked [3H]dopamine release from rat striatal slices by voltage-activated calcium channel ligands: effects of omega-conotoxin-MVIIC. Dobrev D, et al. **Neurochem Res** 1997 Sep;22(9):1085–93

Effect of subtype-specific Ca(2+)-antagonists and Ca(2+)-free media on the field stimulation-evoked release of ATP and [3H]acetylcholine from rat habenula slices. Sperlágh B, et al. **Neurochem Res** 1997 Aug;22(8):967–75

Fasudil (HA1077), an intracellular calcium antagonist, improves neurological deficits and tissue potassium loss in focal cerebral ischemia in gerbils. Kondoh Y, et al. **Neurol Res** 1997 Apr;19(2):211–5

Effects of nilvadipine (a dihydropyridine-type calcium entry blocker) on cerebral blood flow in acute experimental brain ischemia in rats. Tanaka R, et al. **Neurol Res** 1996 Aug; 18(4):325–8

Mitochondrial dysfunction after experimental and human brain injury and its possible reversal with a selective N-type calcium channel antagonist (SNX-111). Verweij BH, et al. **Neurol Res** 1997 Jun;19(3):334–9

Bradykinin inhibition of N- and L-type calcium channel currents in NG108-15 cells. Connor M, et al. **Neuropharmacology** 1997 Jan;36(1):115–24

Polyamine FTX-3.3 and polyamine amide sFTX-3.3 inhibit presynaptic calcium currents and acetylcholine release at mouse motor nerve terminals. Fatehi M, et al. **Neuropharmacology** 1997 Feb;36(2):185–94

omega-Agatoxin IVA identifies a single calcium channel subtype which contributes to the potassium-induced release of acetylcholine, 5-hydroxytryptamine, dopamine, gamma-aminobutyric acid and glutamate from rat brain slices. Harvey J, et al. **Neuropharmacology** 1996 Apr; 35(4):385–92

Contrasting biophysical and pharmacological properties of T-type and R-type calcium channels. Randall AD, et al. **Neuropharmacology** 1997 Jul;36(7):879–93

Inhibition of acetylcholine release from presynaptic terminals of skate electric organ by calcium channel antagonists: a detailed pharmacological study. Richardson CM, et al. **Neuropharmacology** 1996;35(11):1537–46

Inhibition of neuronal high voltage-activated calcium channels by insect peptides: a comparison with the actions of omega-conotoxin GVIA. Scott RH, et al. **Neuropharmacology** 1997 Feb;36(2):195–208

Omega-conotoxin-MVIID blocks an omega-conotoxin-GVIA-sensitive, high-threshold Ca2+ current in fish retinal ganglion cells. Tabata T, et al. **Neuropharmacology** 1996 May;35(5):633–6

Effect of nilvadipine on high-voltage activated Ca2+ channels in rat CNS neurons. Ishibashi H, et al. **Neuroreport** 1997 Mar 3;8(4):853–7

A calcium channel reversibly blocked by omega-conotoxin GVIA lacking the class D alpha 1 subunit. Mermelstein PG, et al. **Neuroreport** 1997 Jan 20;8(2):485–9

L-AP4 inhibits high voltage-activated Ca2+ currents in pyramidal cortical neurones. Stefani A, et al. **Neuroreport** 1996 Jan 31;7(2):421–4

Inhibition of N-type calcium currents by lamotrigine in rat amygdalar neurones. Wang SJ, et al. **Neuroreport** 1996 Nov 25;7(18):3037–40

Non-adrenergic, non-cholinergic inhibitory junction potential in rat colonic circular muscle is partly sensitive to omega-conotoxin GVIA and resistant to L-, P- or Q-type calcium channel blockers. Borderies JR, et al. **Neurosci Lett** 1996 May 31;210(2):91–4

Inhibition of synaptosomal veratridine-induced sodium influx by antidepressants and neuroleptics used in chronic pain. Deffois A, et al. **Neurosci Lett** 1996 Dec 13;220(2):117–20

Nimodipine and nitrendipine inhibit N-type calcium channels in dibutyryl cAMP-differentiated neuroblastoma x glioma hybrid (NG 108-15) cells. Li SN, et al. **Neurosci Lett** 1997 Jul 18;230(2):85–8

omega-agatoxin IVA and excitotoxicity in cortical neuronal cultures. Lustig HS, et al. **Neurosci Lett** 1996 Aug 2; 213(2):142–4

Effect of SR33805 on barium current and asymmetric intramembrane charge movement in freshly dissociated mouse cerebellar Purkinje neurons. Melliti K, et al. **Neurosci Lett** 1996 Oct 4;216(3):167–70

Tetrahydroberberine inhibits acetylcholine-induced K+ current in acutely dissociated rat hippocampal CA1 pyramidal neurons. Wu J, et al. **Neurosci Lett** 1997 Jan 31;222(2):115–8

Tetrahydroberberine suppresses dopamine-induced potassium current in acutely dissociated CA1 pyramidal neurons from rat hippocampus. Wu J, et al. **Neurosci Lett** 1996 Apr 5;207(3):155–8

Calcium currents in dissociated cochlear neurons from the chick embryo and their modification by neurotrophin-3. Jiménez C, et al. **Neuroscience** 1997 Apr;77(3):673–82

Ultrastructural changes in the blood-brain barrier in rats after treatment with nimodipine and flunarizine. A comparison. Zumkeller M, et al. **Neurosurg Rev** 1996;19(4):253–60

Tetrandrine blocks voltage-dependent calcium entry and inhibits the bradykinin-induced elevation of intracellular calcium in NG108-15 cells. Bickmeyer U, et al. **Neurotoxicology** 1996 Summer;17(2):335–41

Age-related differential susceptibility to calcium channel blocker and low calcium medium in rat detrusor muscle: response to field stimulation. Yu HJ, et al. **Neurourol Urodyn** 1996;15(5):563–76

Nerve injury induced by vibration: prevention of the effect of a conditioning lesion by D600, a Ca2+ channel blocker. Widerberg A, et al. **Occup Environ Med** 1997 May; 54(5):312–5

The effects of subconjunctival verapamil on filtering blebs in rabbits. Gupta B, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):378–83

Early clinical and ultrastructural effects of diltiazem injection on rabbit extraocular muscles. Demircan N, et al. **Ophthalmologica** 1995;209(6):336–9

Blockade of spinal N- and P-type, but not L-type, calcium channels inhibits the excitability of rat dorsal horn neurones produced by subcutaneous formalin inflammation. Diaz A, et al. **Pain** 1997 Jan;69(1–2):93–100

Calcium channel blockade inhibits release of TNF alpha and improves survival in a rat model of acute pancreatitis. Hughes CB, et al. **Pancreas** 1996 Jul;13(1):22–8

Two types of omega-agatoxin IVA-sensitive Ca2+ channels are coupled to adrenaline and noradrenaline release in bovine adrenal chromaffin cells. Baltazar G, et al. **Pflugers Arch** 1997 Sep;434(5):592–8

Calcium antagonism in vascular smooth muscle cells. Fleckenstein-Grün G. **Pflugers Arch** 1996;432(3 Suppl):R53–60 (54 ref.)

Effects of alpha 1-adrenoceptor and Ca2+ channel inhibition on norepinephrine-induced thermoregulatory behavior in the cold. Carlisle HJ, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1–2):185–9

Anticonvulsant and adverse effects of MK-801, LY 235959, and GYKI 52466 in combination with Ca2+ channel inhibitors in mice. Gasior M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):629–35

Effects of flunarizine and nitrendipine on electroconvulsive shock- and clonidine-induced amnesia. Genkova-Papazova M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):583–7

Behavioral and analgesic effects induced by administration of nifedipine and nimodipine. Martín MI, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):93–8

Nimodipine on shuttle-box avoidance learning in mice: no impairment but slight improvement. Vetulani J, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):577–81

The effect of thiola, piroxicam and diltiazem on the uterine contractility of gamma-irradiated rats. Elsayed EM, et al. **Pharmacol Res** 1996 Nov-Dec;34(5–6):231–6

Effect of nimodipine on systemic, renal, and cerebral haemodynamics after a mild hypoxic-ischaemic insult in newborn piglets. Raju TN, et al. **Pharmacol Res** 1996 Jan; 33(1):5–12

Ibuprofen inhibits the metabolism of the endogenous cannabimimetic agent anandamide. Fowler CJ, et al. **Pharmacol Toxicol** 1997 Feb;80(2):103–7

Effects of calcium blockers on the cytosolic calcium, H2O2 production and elastase release in human neutrophils. Haga Y, et al. **Pharmacol Toxicol** 1996 Dec;79(6):312–7

Modulation by the endothelium of the inhibitory effects of pinacidil and nimodipine on endothelin-induced contraction in cerebral arteries. Petersson J, et al. **Pharmacol Toxicol** 1997 Jan;80(1):30–7

Effects of calcium channel modulators on the regulation of cytoplasmic Ca2+ and hormone secretion of parathyroid cells. Ridefelt P, et al. **Pharmacol Toxicol** 1996 Mar; 78(3):147–53

Protective effects of Ca2+ channel blockers against methyl mercury toxicity. Sakamoto M, et al. **Pharmacol Toxicol** 1996 Mar;78(3):193–9

Inhibition by 5-N-(4-chlorobenzyl)-2',4'-dimethylbenzamil of Na+/Ca2+ exchange and L-type Ca2+ channels in isolated cardiomyocytes. Sharikabad MN, et al. **Pharmacol Toxicol** 1997 Feb;80(2):57–61

Effects of calcium antagonists on binding of local anesthetics to plasma proteins and erythrocytes in mice. Jacob D, et al. **Pharmacology** 1996 Oct;53(4):219–23

Chlorpromazine and diltiazem effects in muscle: blockage of acetylcholine-evoked contractures, membrane currents and tracer calcium uptake. Lorković H, et al. **Pharmacology** 1996 Jul;53(1):11–8

Effect of divalent cations on the contractile response of rat aorta to depolarization before and after nifedipine treatment. Noguera MA, et al. **Pharmacology** 1996 Aug; 53(2):98–108

Intracoronary magnesium and diltiazem affect to a similar extent certain hemostatic factors during acute myocardial infarction in swine. Serebruany VL, et al. **Pharmacology** 1996 Oct;53(4):224–33

Role of taste aversion in calcium channel inhibitor-induced suppression of saccharin and alcohol drinking in rats. Pucilowski O, et al. **Physiol Behav** 1996 Feb;59(2):319–24

Inhibition of the stomatal blue light response by verapamil at high concentration. Shimazaki K, et al. **Plant Cell Physiol** 1997 Jun;38(6):747–50

Tetramethylpyrazine, a calcium antagonist. Pang PK, et al. **Planta Med** 1996 Oct;62(5):431–5

Calcium antagonists in the olfactory bulbectomy animal model of depression: effect on the cortical NMDA receptor complex. Nowak G. **Pol J Pharmacol** 1996 Mar-Apr; 48(2):137–43

Suppression of voltage-gated L-type Ca2+ currents by polyunsaturated fatty acids in adult and neonatal rat ventricular myocytes. Xiao YF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4182–7

Prostaglandin I2-mediated upregulation of 125I-LDL-receptor binding by isradipine in normo- and hypercholesterolemic rabbits in vivo. Sinzinger H, et al. **Prostaglandins** 1996 Aug;52(2):77–91

Differences in effects of Ca2+ channel antagonists on dopamine metabolism in the limbic and extrapyramidal dopaminergic structures. Antkiewicz-Michaluk L, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):39–44

Effects of the calcium channel blocker nimodipine on nicotine-induced locomotion in rats. Hart C, et al. **Psychopharmacology (Berl)** 1996 Dec;128(4):359–61

Behavioural and anticonvulsant effects of Ca2+ channel toxins in DBA/2 mice. Jackson HC, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):85–90

Unbiased cocaine conditioned place preferences (CPP) obscures conditioned locomotion, and nimodipine blockade of cocaine CPP is due to conditioned place aversions. Martin-Iverson MT, et al. **Psychopharmacology (Berl)** 1997 Apr;130(4):327–33

Chronic nimodipine and acute metrifonate treatment decreases age-related cortical high voltage spindles in rats. Riekkinen P Jr, et al. **Psychopharmacology (Berl)** 1997 Jan; 129(1):91–5

Effects of diltiazem, a Ca2+ channel blocker, on naloxone-precipitated changes in dopamine and its metabolites in the brains of opioid-dependent rats. Tokuyama S, et al. **Psychopharmacology (Berl)** 1996 May; 125(2):135–40

Effects of nimodipine and nifedipine upon behavior and regional brain monoamines in the rat. Viveros MP, et al. **Psychopharmacology (Berl)** 1996 Sep;127(2):123–32

A nifedipine-induced inhibition of lithium clearance [letter] Pinkofsky HB, et al. **Psychosomatics** 1997 Jul-Aug; 38(4):400–1

No effect of the calcium antagonist, isradipine, on plasma catecholamines in irreversible chronic obstructive pulmonary disease (COPD). A randomized, double-blind, placebo-controlled study. Graudal NA, et al. **Pulm Pharmacol** 1995 Apr-Jun;8(2–3):131–5

Modulation by dihydropyridines and protein kinases of the recombinant cardiac L-type Ca channel with multiple unitary current amplitudes. Hirano Y, et al. **Receptors Channels** 1996;4(2):93–104

Effect of chronic administration of dihydropyridine Ca2+ channel ligands on sufentanil-induced tolerance to mu- and kappa-opioid agonists in the guinea pig ileum myenteric plexus. Garaulet JV, et al. **Regul Pept** 1996 May 7;63(1):1–8

Effects of calcium channel blockers on spontaneous electrical

activity of freshly isolated three-day-old embryonic chick ventricle. Prakash P, et al. **Reprod Fertil Dev** 1996; 8(5):921–9

Inhibitory effects of tetrandrine and hernandezine on Ca2+ mobilization in rat glioma C6 cells. Imoto K, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):129–46

Concentration dependence of the metabolic effects of diltiazem in the isolated perfused rat liver. Nishiyama P, et al. **Res Commun Mol Pathol Pharmacol** 1996 Dec; 94(3):305–16

Antiarrhythmic effects of LR-A/113 a new calcium antagonistic drug. Stella L, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):235–48

Haemodynamic and metabolic effects of gallopamil as additive to calcium-containing and calcium-free cardioplegic solutions in mature pig hearts. Randsbaek F, et al. **Scand Cardiovasc J** 1997;31(2):83–9

Ca2+, a regulator of the inflammatory response--the good, the bad, and the possibilities [editorial; comment] Hotchkiss RS, et al. **Shock** 1997 Apr;7(4):308–10 (15 ref.). Comment on: Shock 1997 Apr;7(4):304–7.

Calcium entry blockers increase interleukin-10 production in endotoxemia [see comments] Szabó C, et al. **Shock** 1997 Apr;7(4):304–7. Comment in: Shock 1997 Apr;7(4):308–10.

Inhibition of membrane L-type calcium channel activity and intracellular calcium concentration by 24R, 25-dihydroxyvitamin D3 in vascular smooth muscle. Shan JJ, et al. **Steroids** 1996 Nov;61(11):657–63

Inhibition of PDGF-mediated proliferation of vascular smooth muscle cells by calcium antagonists. Kataoka S, et al. **Stroke** 1997 Feb;28(2):364–9

Selective N-type calcium channel antagonist omega conotoxin MVIIA is neuroprotective against hypoxic neurodegeneration in organotypic hippocampal-slice cultures. Pringle AK, et al. **Stroke** 1996 Nov;27(11):2124–30

Effect of isradipine on in-vivo platelet function. O'Grady J, et al. **Thromb Res** 1997 Jun 1;86(5):363–71

Arsenite efflux is inhibited by verapamil, cyclosporin A, and GSH-depleting agents in arsenite-resistant Chinese hamster ovary cells. Huang RN, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):17–22

Protection against methoxyacetic-acid-induced spermatocyte apoptosis with calcium channel blockers in cultured rat seminiferous tubules: possible mechanisms. Li LH, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):105–19

Effect of calcium antagonists on rat liver during extended cold preservation-reperfusion. de Broin E, et al. **Transplantation** 1997 Jun 15;63(11):1547–54

Selective inhibition of vascular cell adhesion molecule-1 expression by verapamil in human vascular endothelial cells. Yamaguchi M, et al. **Transplantation** 1997 Mar 15; 63(5):759–64

Low-voltage-activated T-type Ca2+ channels. Ertel SI, et al. **Trends Pharmacol Sci** 1997 Feb;18(2):37–42

Effects of m-nifedipine on dihydropyridine binding sites in hypertrophied left ventricular cell membranes from deoxycorticosterone acetate-salt hypertensive rats. Xu Y, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):333–9

[The role of endothelin the development of hypoxic pulmonary hypertension] Xu J, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):290–2, 318 (Eng. Abstr.) **(Chi)**

[Effect of tetrandrine on intraacinar pulmonary arterial structural remodelling and pulmonary hypertension] Zhang S, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar; 27(1):59–62 (Eng. Abstr.) **(Chi)**

[Protective effect of tetrandrine on neuronal injury in cultured cortical neurons of rats] Che JT, et al. **Yao Hsueh Hsueh Pao** 1996;31(3):161–5 (Eng. Abstr.) **(Chi)**

[Effects of 2-(p-dimethylaminostyryl) pyridine methycholide (DSPM-Ci) on ECG, left atrium contractivity and on papillary muscle action potentials] Jiang XY, et al. **Yao Hsueh Hsueh Pao** 1996;31(6):401–5 (Eng. Abstr.) **(Chi)**

[Calcium antagonists and development of the atheromatous plaque] Weber S. **Arch Mal Coeur Vaiss** 1997 May;90 Spec No 2:51–3 (Eng. Abstr.) **(Fre)**

[Effect of the nature of the heteroatom of a monosaccharide derivative on its inhibitory action in relation to P-type calcium channels expressed in the Xenopus oocyte] Lahyani A, et al. **Arch Physiol Biochem** 1996;104(1):43–9 (Eng. Abstr.) **(Fre)**

[Preclinical study of the action of a calcium channel blocker during salt load] Godfraind T, et al. **Bull Acad Natl Med** 1997 Feb;181(2):289–98; discussion 299–300 (Eng. Abstr.) **(Fre)**

[Interaction of nimodipine and propofol in dogs. Hemodynamics and cardiodynamics] Rolf N, et al. **Anaesthesist** 1997 May;46(5):398–402 (Eng. Abstr.) **(Ger)**

[Effect of the calcium antagonist amlodipine on non-vascular smooth muscle exemplified by the uterus] Lechner W, et al. **Wien Med Wochenschr** 1996;146(17):466–8 (Eng. Abstr.) **(Ger)**

[Intracellular signal transmission of low density lipoprotein receptors in human monocytes] Balogh Z, et al. **Orv Hetil** 1997 Sep 7;138(36 Suppl 2):2318–21 (30 ref.) (Eng. Abstr.) **(Hun)**

[The clinical pharmacology of calcium antagonists: new aspects and insights] van Zwieten PA. **Cardiologia** 1996 May;41 Suppl 1:7–11 (21 ref.) **(Ita)**

[Effect of barnidipine hydrochloride on the autonomic nervous system: difference between short- and long-acting components of calcium antagonist] Soejima K, et al. **J Cardiol** 1997 Jul;30(1):13–8 (Eng. Abstr.) **(Jpn)**

[Potentiation of procaine-induced local sensory block by verapamil in rats] Ohmori H, et al. **Masui** 1996 Sep; 45(9):1100–4 (Eng. Abstr.) **(Jpn)**

[Ca channel blocker and the eye (editorial)] Hayasaka S. **Nippon Ganka Gakkai Zasshi** 1996 Sep;100(9):651–2 **(Jpn)**

[The effect of nicardipine on ischemic injury of rabbit retina] Hosobe Y. **Nippon Ganka Gakkai Zasshi** 1996 Sep; 100(9):665–71 (Eng. Abstr.) **(Jpn)**

[Enhancement of cytotoxic effect of anticancer agents of renal cell carcinoma] Okano M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1041–7 (Eng. Abstr.) **(Jpn)**

[Influence of rifampicin on antihypertensive effects of dihydropiridine calcium-channel blockers in four elderly patients] Yoshimoto H, et al. **Nippon Ronen Igakkai Zasshi** 1996 Sep;33(9):692–6 (Eng. Abstr.) **(Jpn)**

[A new approach to the understanding of the mechanism of ischemia/reperfusion damage in the heart and the effects of anti-ischemic drugs] Abiko Y, et al. **Nippon Yakurigaku Zasshi** 1996 Oct;108(4):195–202 (40 ref.) (Eng. Abstr.) **(Jpn)**

[Effect of efonidipine hydrochloride on myocardial oxygen balance in anesthetized dogs] Fujikura N, et al. **Nippon Yakurigaku Zasshi** 1996 Aug;108(2):39–48 (Eng. Abstr.) **(Jpn)**

[Effect of efonidipine hydrochloride (NZ-105), a dihydropyridine derivative with calcium antagonistic action, on myocardial oxygen tension in anesthetized dogs] Fujikura N, et al. **Nippon Yakurigaku Zasshi** 1996 Nov; 108(5):267–74 (Eng. Abstr.) **(Jpn)**

[Antihypertensive effects of a novel calcium antagonist, AE0047, in various hypertensive models] Kido H, et al. **Nippon Yakurigaku Zasshi** 1997 Jun;109(6):279–89 (Eng. Abstr.) **(Jpn)**

[Effects of efonidipine hydrochloride, a calcium antagonist derived from dihydropyridine, on acute myocardial ischemia in anesthetized open-chest dogs] Yokoyama T, et al. **Nippon Yakurigaku Zasshi** 1996 Dec;108(6):307–21 (Eng. Abstr.) **(Jpn)**

[Age-related alteration of inhibitory effects of isradipine on alpha 1-adrenoceptor mediated responses] Kanai S, et al. **Yakugaku Zasshi** 1996 Oct;116(10):792–802 (Eng. Abstr.) **(Jpn)**

[Anti-atherosclerotic action of hypotensive drugs] Gmiński J, et al. **Wiad Lek** 1996;49(7-12):182–98 (0 ref.) (Eng. Abstr.) **(Pol)**

[Correlation of inhibition of thrombocyte light chain myosin phosphorylation and thrombocyte aggregation by the new calcium and calmodulin antagonist] Aleksanian AR, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):40–2 **(Rus)**

[Efficacy of combined administration of various potential-dependent and receptor-activated Ca channel blockers with various antiepileptic agents] Karpova MN, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):46–9 **(Rus)**

[Effect of calcium and its antagonists on hemodynamics and respiration] Sanotskaia NV, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):138–43 **(Rus)**

[The effect of verapamil on the growth and sensitivity to vincristine of human tumor transplanted into kidney capsule of mice] Storozhenko IV, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):681–3 **(Rus)**

[The effect of verapamil on changes in the Ca2+ content of the intracellular structures of organs during acute myocardial ischemia] Dzhanpoladian EG, et al. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):21–2 (Eng. Abstr.) **(Rus)**

[The role of the natriuretic hormone in the action of nifedipine and verapamil on the kidneys] Filipets ND. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):40–1 (Eng. Abstr.) **(Rus)**

[The effect of calcium channel blockers on activity in the sympathetic nerves, on the vasomotor reflex and on cerebral circulation] Gan'shina TS, et al. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):12–7 (Eng. Abstr.) **(Rus)**

[The effect of calcium channel blockers on the effects of ethanol in the immobilization of mice] Kozlovskiĭ VL, et al. **Eksp Klin Farmakol** 1996 Jul-Aug;59(4):55–7 (Eng. Abstr.) **(Rus)**

[The influence of calcium channel blockers on antidepressant effects] Kozlovskiĭ VL, et al. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):9–11 (Eng. Abstr.) **(Rus)**

[The influence of calcium channel blockers on the effects of haloperidol and phenamine in mice and rats] Kozlovskiĭ VL, et al. **Eksp Klin Farmakol** 1996 May-Jun;59(3):12–5 (Eng. Abstr.) **(Rus)**

[Nimodipine, nifedipine and the cerebrovascular effects of serotonin] Semkina GA, et al. **Eksp Klin Farmakol** 1996 Nov-Dec;59(6):13–6 (Eng. Abstr.) **(Rus)**

[Changes in the blood circulation in the middle cerebral and common carotid arteries of rats under the influence of flunarizine] Semkina GA, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):28–31 (Eng. Abstr.) **(Rus)**

[Effect of calcium channel blockers on temperature in mice] Kozlovskiĭ VL, et al. **Patol Fiziol Eksp Ter** 1997 Jan-Mar; (1):26–8 (Eng. Abstr.) **(Rus)**

[A clinico-pharmacological study of the antianginal and anti-ischemic efficacy of a new drug form of diltiazem with delayed release] Belousov IuB, et al. **Ter Arkh** 1997; 69(3):61–3 **(Rus)**

[Inhibitory effect of the radiosensitizer AK-2123 on experimental liver metastasis and active transport of calcium ions] Konovalova NP, et al. **Vopr Onkol** 1997; 43(3):309–12 (Eng. Abstr.) **(Rus)**

[The nootropic agent vinpocetine blocks the delayed rectifier potassium channel more strongly than the high-conductance calcium channel] Bukanova IuV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):911–6 (Eng. Abstr.) **(Rus)**

[The effect of isradipine on lipid parameters in calcinosis in rats induced by vitamin D3] Kvaszová E, et al. **Bratisl Lek Listy** 1997 Feb;98(2):91–6 (Eng. Abstr.) **(Slo)**

POISONING

Perfusion salad: making sense of verapamil overdose [editorial; comment] Smilkstein MJ. **Acad Emerg Med** 1996 Feb;3(2):99–100. Comment on: Acad Emerg Med 1996 Feb;3(2):120–5.

Glucagon and phenylephrine combination vs glucagon alone in experimental verapamil overdose [see comments] Stone CK, et al. **Acad Emerg Med** 1996 Feb;3(2):120–5. Comment in: Acad Emerg Med 1996 Feb;3(2):99–100.

Resuscitation after nifedipine overdose exclusively with intravenous calcium chloride. Haddad LM. **Am J Emerg Med** 1996 Oct;14(6):602–3

Amlodipine overdose [see comments] Stanek EJ, et al. **Ann Pharmacother** 1997 Jul-Aug;31(7-8):853–6. Comment in: Ann Pharmacother 1997 Jul-Aug;31(7-8):924–5.

Plasma concentrations of diltiazem and desacetyldiltiazem in an overdose situation. Williamson KM, et al. **Ann Pharmacother** 1996 Jun;30(6):608–11

Cardiac dysrhythmias in severe verapamil overdose: characterization with a canine model. Thomas SH, et al. **Eur J Emerg Med** 1996 Mar;3(1):9–13

Pharmacokinetics of verapamil in overdose. Kivistö KT, et al. **Hum Exp Toxicol** 1997 Jan;16(1):35–7

A report of suicide involving verapamil. Janowska EJ, et al. **Vet Hum Toxicol** 1996 Jun;38(3):210–1

[Slow-release verapamil poisoning (letter)] Rodríguez V, et al. **An Med Interna** 1997 Mar;14(3):159 **(Spa)**

THERAPEUTIC USE

Intravenous infusions of nifedipine: an alternative for the prevention of hypertension in eye surgery under local anesthesia. Nastou H, et al. **Acta Anaesthesiol Belg** 1997; 48(2):77–83

Does nimodipine influence sex difference in outcome after aneurysmal subarachnoid haemorrhage? Hauerberg J, et al. **Acta Neurochir (Wien)** 1996;138(10):1168–71

Nimodipine in traumatic subarachnoid haemorrhage: a re-analysis of the HIT I and HIT II trials. Murray GD, et al. **Acta Neurochir (Wien)** 1996;138(10):1163–7

Pharmacologic approaches to reperfusion injury. Willerson JT. **Adv Pharmacol** 1997;39:291–312 (120 ref.)

Long-term antianginal and antiischemic effects of mibefradil, the novel T-type calcium channel blocker: a multicenter, double-blind, placebo-controlled, randomized comparison with sustained-release diltiazem. Davies GJ, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):220–8

Effect of amlodipine on norepinephrine kinetics and baroreflex function in patients with congestive heart failure. Goldsmith SR. **Am Heart J** 1997 Jul;134(1):13–9

Treatment with verapamil and trandolapril in patients with congestive heart failure and angina pectoris or myocardial infarction. The DAVIT Study Group. Danish Verapamil Infarction Trial. Hansen JF, et al. **Am Heart J** 1997 Aug; 134(2 Pt 2):S48–52

Safety of heart rate-lowering calcium antagonists: lessons from controlled trials. Messerli FH, et al. **Am Heart J** 1997 Aug;134(2 Pt 2):S21–4 (14 ref.)

Cardiovascular effects of a trandolapril/verapamil combination in patients with mild to moderate essential hypertension. Aepfelbacher FC, et al. **Am J Cardiol** 1997 Mar 15;79(6):826–8

Additional antianginal and anti-ischemic efficacy of mibefradil in patients pretreated with a beta blocker for chronic stable angina pectoris. Alpert JS, et al. **Am J Cardiol** 1997 Apr 15;79(8):1025–30

Antianginal and anti-ischemic effects of mibefradil in the treatment of patients with chronic stable angina pectoris. Alpert JS, et al. **Am J Cardiol** 1997 Aug 21;80(4B):20C–26C

Comparison of verapamil versus felodipine on heart rate variability after acute myocardial infarction. Bonaduce D, et al. **Am J Cardiol** 1997 Mar 1;79(5):564–9

Re-examining the clinical safety and roles of calcium antagonists in cardiovascular medicine. Conti CR. **Am J Cardiol** 1996 Nov 7;78(9A):13–8 (78 ref.)

Mibefradil in the treatment of chronic stable angina pectoris: comparative studies with other calcium antagonists. Davies GJ, et al. **Am J Cardiol** 1997 Aug 21;80(4B):34C–39C

Use of calcium antagonists in patients with ischemic heart disease and systemic hypertension. Frishman WH, et al. **Am J Cardiol** 1997 May 22;79(10A):33–8; discussion 47–8 (36 ref.)

Combined enalapril and felodipine extended release (ER) for systemic hypertension. Enalapril-Felodipine ER Factorial

Study Group. Gradman AH, et al. **Am J Cardiol** 1997 Feb 15;79(4):431–5

Cardiac event rates after acute myocardial infarction in patients treated with verapamil and trandolapril versus trandolapril alone. Danish Verapamil Infarction Trial (DAVIT) Study Group [see comments] Hansen JF, et al. **Am J Cardiol** 1997 Mar 15;79(6):738–41. Comment in: Am J Cardiol 1997 Mar 15;79(6):788–9.

Mibefradil in the treatment of systemic hypertension: comparative studies with other calcium antagonists. Massie BM, et al. **Am J Cardiol** 1997 Aug 21;80(4B):27C–33C

"Cardioprotection"—not all calcium antagonists are created equal: second round [editorial; comment] Messerli FH. **Am J Cardiol** 1997 Mar 15;79(6):788–9 (13 ref.). Comment on: Am J Cardiol 1997 Mar 15;79(6):738–41.

Felodipine as monotherapy and associated with enalapril for essential hypertension [letter] Navarro JF, et al. **Am J Cardiol** 1997 Sep 1;80(5):683–4

Diltiazem improves left ventricular systolic function following acute myocardial infarction treated with streptokinase. The Calcium Antagonist in Reperfusion Study (CARES) Group. Nicolau JC, et al. **Am J Cardiol** 1996 Nov 1;78(9):1049–52

Antihypertensive effects of mibefradil in the treatment of mild–to–moderate systemic hypertension. Oparil S, et al. **Am J Cardiol** 1997 Aug 21;80(4B):12C–19C

What does nisoldipine coat core (CC) add to current therapy that is clinically meaningful? Opie LH. **Am J Cardiol** 1997 May 22;79(10A):29–32; discussion 47–8 (40 ref.)

Rationale and safety of angiotensin converting enzyme inhibitor combination with calcium channel blockers. Applegate WB. **Am J Hypertens** 1996 Dec;9(12 Pt 2):192S

Additive effects of diltiazem and lisinopril in the treatment of elderly patients with mild–to–moderate hypertension. Chan P, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):743–9

Fixed–dose combination therapy with trandolapril and verapamil SR is effective in primary hypertension. Trandolapril Study Group. DeQuattro V, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 2):138S–145S

Comparison of nifedipine GITS and hydrochlorothiazide in the management of elderly patients with stage I–III diastolic hypertension. Dey HM, et al. **Am J Hypertens** 1996 Jun;9(6):598–606

Calcium antagonists: still appropriate as first line antihypertensive agents. Epstein M. **Am J Hypertens** 1996 Feb;9(2):110–21 (64 ref.)

Calcium antagonists: not appropriate as first line antihypertensive agents. Furberg CD, et al. **Am J Hypertens** 1996 Feb;9(2):122–5 (13 ref.)

Calcium channel antagonists: friend or foe in postinfarction patients? Gibson RS, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 2):172S–176S (36 ref.)

Has the use of angiotensin converting enzyme inhibitors and calcium channel blockers improved the outcome for hypertensive patients? Gifford RW Jr. **Am J Hypertens** 1997 Mar;10(3):9S–12S (19 ref.)

Differential effects of amlodipine on ambulatory blood pressure in elderly hypertensive patients with different nocturnal reductions in blood pressure. Kario K, et al. **Am J Hypertens** 1997 Mar;10(3):261–8

The antihypertensive efficacy of the novel calcium antagonist mibefradil in comparison with nifedipine GITS in moderate to severe hypertensives with ambulatory hypertension. Lacourcière Y, et al. **Am J Hypertens** 1997 Feb; 10(2):189–96

Calcium antagonists and cardiovascular prognosis: a homogeneous group? Laragh JH, et al. **Am J Hypertens** 1996 Feb;9(2):99–109 (51 ref.)

Clinical relevance of 24 h blood pressure control by 1,4–dihydropyridines. Leenen FH. **Am J Hypertens** 1996 Oct;9(10 Pt 2):97S–104S; discussion 108S–109S (61 ref.)

Effect of short–term treatment of SHR with the novel calcium channel antagonist mibefradil on function of small arteries. Li JS, et al. **Am J Hypertens** 1997 Jan;10(1):94–100

Hyperinsulinemia, insulin resistance, and the treatment of hypertension. Lithell HO. **Am J Hypertens** 1996 Nov; 9(11):150S–154S (28 ref.)

Metabolic effects of long–term treatments with nifedipine–retard and captopril in young hypertensive patients. Masuo K, et al. **Am J Hypertens** 1997 Jun; 10(6):600–10

What, if anything, is controversial about calcium antagonists? Messerli FH. **Am J Hypertens** 1996 Dec;9(12 Pt 2):177S–181S (24 ref.)

Dose–response characteristics of mibefradil, a novel calcium antagonist, in the treatment of essential hypertension. Oparil S, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):735–42

Efficacy and tolerability of nisoldipine coat–core formulation in the treatment of essential hypertension: The South African Multicenter ANCHOR Study. Ambulatory Nisoldipine Coat–Core Hypertension Outpatient Response (ANCHOR) Investigators [published erratum appears in Am J Hypertens 1997 Jun;10(6):696] Opie LH, et al. **Am J Hypertens** 1997 Mar;10(3):250–60

Anipamil prevents intimal thickening in the aorta of hypertensive rabbits through changes in smooth muscle cell phenotype. Pauletto P, et al. **Am J Hypertens** 1996 Jul; 9(7):687–94

Treatment of non–insulin–dependent diabetic hypertensive patients with Ca2+ channel blockers is associated with increased platelet sensitivity to insulin. Touyz RM, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1214–21

A longitudinal study on the effect of nifedipine therapy and its discontinuation on [Ca2+]i and proliferation of B lymphocytes of dialysis patients. Alexiewicz JM, et al. **Am J Kidney Dis** 1997 Feb;29(2):233–8

The influence of dietary salt on the antiproteinuric effect of calcium channel blockers. Weir MR. **Am J Kidney Dis** 1997 May;29(5):800–5

Calcium antagonists in cardiovascular disease: a necessary controversy but an unnecessary panic [editorial; comment] Grossman E, et al. **Am J Med** 1997 Feb;102(2):147–9. Comment on: Am J Med 1997 Feb;102(2):150–7.

Atrial fibrillation: prospective role of calcium channel blockers in open heart surgery [letter; comment] Tofukuji M, et al. **Am J Med** 1997 May;102(5):503. Comment on: Am J Med 1996 Oct;101(4):413–21.

Time course of the effect of nifedipine therapy and its discontinuation on [Ca2+]i and phagocytosis of polymorphonuclear leukocytes from hemodialysis patients. Alexiewicz JM, et al. **Am J Nephrol** 1997;17(1):12–6

Antihypertensive and anti–albuminuric effects of losartan potassium and felodipine in Chinese elderly hypertensive patients with or without non–insulin–dependent diabetes mellitus. Chan JC, et al. **Am J Nephrol** 1997;17(1):72–80

Use of nimodipine in the medical treatment of Menière's disease: clinical experience. Lassen LF, et al. **Am J Otol** 1996 Jul;17(4):577–80

Diltiazem for ventricular fibrillation [letter] Kishikawa K, et al. **Anesthesiology** 1997 Sep;87(3):709

Effects of nisoldipine on cytosolic calcium, platelet aggregation, and coagulation/fibrinolysis in patients with coronary artery disease. Fujinishi A, et al. **Angiology** 1997 Jun;48(6):515–21

Calcium channel blockers for anxiety disorders? Balon R, et al. **Ann Clin Psychiatry** 1996 Dec;8(4):215–20 (42 ref.)

Dual calcium–channel blocker therapy in the treatment of hypertension. Saseen JJ, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):802–10 (46 ref.)

Treatment of earlobe keloids with surgery plus adjuvant intralesional verapamil and pressure earrings. Lawrence WT. **Ann Plast Surg** 1996 Aug;37(2):167–9

Effects of diltiazem versus digoxin on dysrhythmias and cardiac function after pneumonectomy. Amar D, et al. **Ann Thorac Surg** 1997 May;63(5):1374–81; discussion 1381–2

Successful management of refractory hypertension with dual calcium channel blocker therapy: case presentation. Geurian K, et al. **Arch Fam Med** 1997 Sep–Oct;6(5):503–5; discussion 506

Disappearance with ischaemic depolarization of the antifibrillatory activity in a sodium channel blocker and appearance in calcium channel blocker. Bui–Xuan B, et al. **Arch Int Pharmacodyn Ther** 1996 May–Jun; 331(3):246–62

Post–treatment of transient focal cerebral ischemia in rats with the novel cerebrovascular–selective Ca2+ channel antagonist (+/–)–(E)–1–(3–fluoro–6,11–dihydrodibenz[b,e]–oxepine–11–yl)–4–(3–pheny l–2–propenyl)–piperazine dimaleate. Minato H, et al. **Arzneimittelforschung** 1997 Jul; 47(7):799–802

Influence of verapamil on the efficacy of vitamin E in preventing the ischemia–reperfusion–induced biochemical dearrangement in cerebral cortex of rat. Shaheen AA, et al. **Arzneimittelforschung** 1996 Jul;46(7):670–3

Effects of efonidipine, nicardipine and captopril on proteinuria in aged spontaneously hypertensive rats. Shudo C, et al. **Arzneimittelforschung** 1996 Sep;46(9):852–4

Antihypertensive effects of lercanidipine in experimental hypertensive rats and dogs. Sironi G, et al. **Arzneimittelforschung** 1996 Feb;46(2):145–52

Chronic hemorheological effects of the calcium antagonist nilvadipine in essential hypertension. Tsuda Y, et al. **Arzneimittelforschung** 1997 Aug;47(8):900–4

The effect of isradipine administration on existing fatty streaks in the cholesterol–fed rabbit: a morphometric study. Skepper JN, et al. **Atherosclerosis** 1996 Jan 26;119(2):247–60

Cardiac conduction with diltiazem and beta–blockade combined. A review and report on cases. Kjeldsen SE, et al. **Blood Press** 1996 Sep;5(5):260–3 (29 ref.)

The Swedish Trial in old patients with hypertension–2 (STOP–hypertension–2): a progress report. Lindholm LH, et al. **Blood Press** 1996 Sep;5(5):300–4

Safety aspects of treatment with lacidipine—a slow–onset, long–acting calcium antagonist. Lindholm LH, et al. **Blood Press** 1996 Jul;5(4):241–9 (25 ref.)

The efficacy of felodipine ER on regression of left ventricular hypertrophy in patients with primary hypertension. Nalbantgil I, et al. **Blood Press** 1996 Sep;5(5):285–91

Felodipine or hydrochlorothiazide/triamterene for treatment of hypertension in the elderly: effects on blood pressure, hypertensive heart disease, metabolic and hormonal parameters. Trenkwalder P, et al. **Blood Press** 1996 May; 5(3):154–63

Slowly acting calcium antagonists and their merits. Van Zwieten PA, et al. **Blood Press** 1997 Mar;6(2):78–80 (14 ref.)

Calcium antagonists in hypertension: first–line antihypertensive agents? Ambrosioni E. **Blood Press Suppl** 1996;5:5–6 (10 ref.)

Data collection and statistical analyses in ELSA. European Lacidipine Study on Atherosclerosis. Hennig M, et al. **Blood Press Suppl** 1996;4:24–9

Ultrasound protocol and quality control procedures in the European Lacidipine Study on Atherosclerosis (ELSA). Mercuri M, et al. **Blood Press Suppl** 1996;4:20–3

Calcium, calcium antagonists and experimental atherosclerosis. Paoletti R, et al. **Blood Press Suppl** 1996; 4:12–5 (35 ref.)

Attempts to improve the selectivity of calcium antagonistic drugs. van Zwieten PA, et al. **Blood Press Suppl** 1996;5:7–9 (13 ref.)

Persistence of anti–hypertensive effect after 'missed doses' of calcium antagonist with long (amlodipine) vs short (diltiazem) elimination half–life. Leenen FH, et al. **Br J Clin Pharmacol** 1996 Feb;41(2):83–8

On the cerebro–protective effects of caroverine, a calcium–channel blocker and antiglutamatergic drug: double–blind, placebo–controlled, EEG mapping and psychometric studies under hypoxia. Saletu B, et al. **Br J Clin Pharmacol** 1996 Feb;41(2):89–99

A study to investigate the comparative efficacy and tolerability of nisoldipine coat–core and atenolol in the treatment of mild to moderate hypertension. Murray TS. **Br J Clin Pract** 1996 Oct–Nov;50(7):368–72

Calcium–channel antagonists in cardiovascular disease. Holdright DR. **Br J Hosp Med** 1997 Jun 4–17;57(11):552–6 (23 ref.)

24–hour blood pressure monitoring to evaluate the effects of nifedipine in pre–eclampsia and in chronic hypertension in pregnancy. Benedetto C, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):682–8

Effect of oral nifedipine on ocular blood flow in patients with low tension glaucoma. Geyer O, et al. **Br J Ophthalmol** 1996 Dec;80(12):1060–2

Time–course and treatment response with SNX–111, an N–type calcium channel blocker, in a rodent model of focal cerebral ischemia using diffusion–weighted MRI. Yenari MA, et al. **Brain Res** 1996 Nov 11;739(1–2):36–45

N of 1 trials. Managing patients with chronic fatigue syndrome: two case reports. Wiebe E. **Can Fam Physician** 1996 Nov;42:2214–7

PROTECT (Prospective Reinfarction Outcomes in the Thrombolytic Era Cardizem CD Trial): a randomized, double–blind clinical trial of diltiazem versus atenolol in secondary prophylaxis post non–Q wave myocardial infarction [see comments] Goodman S, et al. **Can J Cardiol** 1996 Nov;12(11):1183–90. Comment in: Can J Cardiol 1997 Jul;13(7):693, 696.

Re: Prospective reinfaction outcomes in the Thrombolytic Era Cardizem CD Trial (PROTECT) [letter; comment] Goodman S, et al. **Can J Cardiol** 1997 Jul;13(7):693, 696 . Comment on: Can J Cardiol 1996 Nov;12(11):1183–90.

Calcium channel blockers: an evidence–based review. Waters D. **Can J Cardiol** 1997 Aug;13(8):757–66 (70 ref.)

Pharmacologic control of heart rate in atrial fibrillation. Falk RH. **Cardiol Clin** 1996 Nov;14(4):521–36 (71 ref.)

Treatment of hypertension associated with stable angina pectoris: favourable interaction between new metoprolol formulation (OROS) and nifedipine. Di Somma S, et al. **Cardiologia** 1996 Jul;41(7):635–43

Drugs that delay the progression of coronary atherosclerosis. Ferraro–Borgida M, et al. **Cardiologia** 1997 Feb; 42(2):149–61 (67 ref.)

Treatment of stable angina pectoris with calcium antagonists and beta–blockers. The APSIS study. Angina Prognosis Study in Stockholm. Rehnqvist N, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):301

Effect of gallopamil on myocardial microperfusion in patients with stable effort angina: a randomized, cross–over, double–blind, placebo–controlled trial. Acanfora D, et al. **Cardiology** 1997 Jul–Aug;88(4):353–60

Nisoldipine CC: clinical experience in hypertension. Langan J, et al. **Cardiology** 1997;88 Suppl 1:56–62; discussion 63–5 (62 ref.)

Dynamic left ventricular outflow tract obstruction in critically ill patients: role of transesophageal echocardiography in therapeutic decision making. Madu EC, et al. **Cardiology** 1997 May–Jun;88(3):292–5

Nisoldipine CC: clinical experience in ischaemic heart disease. Melcher A, et al. **Cardiology** 1997;88 Suppl 1:17–23; discussion 24–5 (30 ref.)

High blood pressure and calcium antagonism. Palma–Gámiz JL. **Cardiology** 1997;88 Suppl 1:39–46 (56 ref.)

Calcium channel blockers and hypertension: evolving perspective—1996. Epstein M. **Cardiovasc Drugs Ther** 1997 Jan;10 Suppl 3:883–91 (50 ref.)

Nisoldipine CC: efficacy and tolerability in hypertension and ischemic heart disease. Fodor JG. **Cardiovasc Drugs Ther** 1997 Jan;10 Suppl 3:873–9 (48 ref.)

Calcium channel antagonists in the modern era of coronary thrombolysis: benefit or detriment? [editorial] Foley JA, et al. **Cardiovasc Drugs Ther** 1996 Sep;10(4):403–7

Should calcium antagonists be first–line agents in the treatment of cardiovascular disease? The public health perspective. Furberg CD, et al. **Cardiovasc Drugs Ther** 1996 Sep;10(4):463–6

DEFIANT–II: a study of nisoldipine CC after myocardial infarction. Doppler flow and Echocardiography in Functional cardiac Insufficiency: Assessment of Nisoldipine Therapy investigators. Hall R. **Cardiovasc Drugs Ther** 1997 Jan;10 Suppl 3:881

Attenuation of stunning by the calcium antagonist nisoldipine in patients with myocardial infarction and early percutaneous transluminal coronary angioplasty [comment]

Heusch G. **Cardiovasc Drugs Ther** 1997 Mar;11(1):19-20. Comment on: Cardiovasc Drugs Ther 1997 Mar;11(1):5-16.

Systemic and regional hemodynamic effects of gallopamil in patients with essential hypertension. Ketelhut RG, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):39-42

Clinical evidence that nisoldipine attenuates stunning in patients post infarction [comment] Kloner RA, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):17-8. Comment on: Cardiovasc Drugs Ther 1997 Mar;11(1):5-16.

Calcium channel blocker debate: true lies? [editorial] Leor J, et al. **Cardiovasc Drugs Ther** 1996 Sep;10(4):413-5

Calcium channel antagonists should be among the first-line drugs in the management of cardiovascular disease. Opie LH. **Cardiovasc Drugs Ther** 1996 Sep;10(4):455-61 (37 ref.)

The STONE Study (Shanghai Trial of Hypertension in the Elderly): a meeting report. Opie LH. **Cardiovasc Drugs Ther** 1996 Sep;10(4):467-8

Calcium channel blockers: summary and safety issues. Opie LH. **Cardiovasc Drugs Ther** 1997 Jan;10 Suppl 3:893-5 (18 ref.)

Effects of isradipine sustained release on platelet function and fibrinolysis in essential hypertensives with or without other risk factors. Ranieri G, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):119-23

Attenuation of regional myocardial stunning by felodipine [letter] Rose J, et al. **Cardiovasc Drugs Ther** 1996 Jul; 10(3):347-9

Recovery of left ventricular function following early reperfusion in acute myocardial infarction: a potential role for the calcium antagonist nisoldipine [see comments] Sheiban I, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):5-16 . Comment in: Cardiovasc Drugs Ther 1997 Mar;11(1):17-8. Comment in: Cardiovasc Drugs Ther 1997 Mar;11(1):19-20.

Hemodynamic effects of intravenous elgodipine in coronary artery disease during rest and exercise, and basic pharmacokinetic parameters. Silke B, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):573-80

Both a calcium antagonist and ACE inhibitor reverse hypertrophy in hypertension but a calcium antagonist also depresses contractility. Sumimoto T, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):27-32

Semotiadil inhibits the development of right ventricular hypertrophy and medial thickening of pulmonary arteries in a rat model of pulmonary hypertension. Takahashi T, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):809-14

Coronary and cardiac sensitivity to the vasoselective benzothiazepine-like calcium antagonist, clentiazem, in experimental heart failure. Tanguay M, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):71-9

Ambulatory blood pressure monitoring in patients with essential hypertension treated with a new calcium antagonist, cilnidipine. Tominaga M, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):43-8

Chronic T-type Ca2+ channel blockade with mibefradil in hyperinsulinemic, insulin-resistant and hypertensive rats. Verma S, et al. **Cardiovasc Res** 1997 Apr;34(1):121-8

Long-term follow-up after flunarizine or nimodipine discontinuation in migraine patients. Nuti A, et al. **Cephalalgia** 1996 Aug;16(5):337-40

Lamotrigine versus placebo in the prophylaxis of migraine with and without aura [see comments] Steiner TJ, et al. **Cephalalgia** 1997 Apr;17(2):109-12. Comment in: Cephalalgia 1997 Apr;17(2):101-2.

Comparison of clinical efficacy and adverse effects between extended-release felodipine and atenolol in patients with mild and moderate essential hypertension. Chern MS, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):86-93

Antianginal and anti-ischemic efficacy of nisoldipine in stable angina pectoris: a randomized, double-blind, placebo-controlled trial. Chen YH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov;58(5):323-8

Effect of the calcium antagonist felodipine as supplementary vasodilator therapy in patients with chronic heart failure treated with enalapril: V-HeFT III. Vasodilator-Heart Failure Trial (V-HeFT) Study Group. Cohn JN, et al. **Circulation** 1997 Aug 5;96(3):856-63

Asymptomatic Cardiac Ischemia Pilot (ACIP) study two-year follow-up: outcomes of patients randomized to initial strategies of medical therapy versus revascularization [see comments] Davies RF, et al. **Circulation** 1997 Apr 15; 95(8):2037-43. Comment in: Circulation 1997 Apr 15;95(8):1992-3.

Fibrinolytic variables and cardiovascular prognosis in patients with stable angina pectoris treated with verapamil or metoprolol. Results from the Angina Prognosis study in Stockholm. Held C, et al. **Circulation** 1997 May 20; 95(10):2380-6

Short-acting nifedipine and diltiazem do not reduce the incidence of cardiac events in patients with healed myocardial infarction. Secondary Prevention Group. Ishikawa K, et al. **Circulation** 1997 May 20;95(10):2368-73

Hypertrophic cardiomyopathy [letter] Kaltenbach M, et al. **Circulation** 1997 Sep 16;96(6):2080

Beneficial effects of amlodipine in a murine model of congestive heart failure induced by viral myocarditis. A possible mechanism through inhibition of nitric oxide production. Wang WZ, et al. **Circulation** 1997 Jan 7; 95(1):245-51

Calcium antagonists are here to stay--in my opinion! [editorial] Conti CR. **Clin Cardiol** 1996 Jul;19(7):529-30

The prognostic significance of angina pectoris experienced during the first month following acute myocardial infarction. Jespersen CM. **Clin Cardiol** 1997 Jul;20(7):623-6

The design of the Mortality Assessment in Congestive Heart Failure Trial (MACH-1, mibefradil). Levine TB. **Clin Cardiol** 1997 Apr;20(4):320-6

Antihypertensive effects of mibefradil: a double-blind comparison with diltiazem CD. Massie BM, et al. **Clin Cardiol** 1997 Jun;20(6):562-8

Efficacy of combination therapy with trandolapril and verapamil sr in primary hypertension: a 4 x 4 trial design. The Trandolapril Study Group. DeQuattro V, et al. **Clin Exp Hypertens** 1997 Apr;19(3):373-87

Does combined therapy of Ca-channel blocker and angiotensin converting enzyme inhibitor exceed monotherapy in renal protection against hypertensive injury in rats? Kanno Y, et al. **Clin Exp Hypertens** 1996 Feb;18(2):243-56

Suppressive effects of benidipine on the development of hypertension and renal lesions in salt-loaded stroke-prone spontaneously hypertensive rats. Nito M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S337-8

Long-term therapeutic effects of ace inhibitor and calcium antagonists on hypertensive vascular lesions in M-SHRSP. Ohta Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S321-2

Effect of nifedipine on renal allograft function and survival beyond one year. Shin GT, et al. **Clin Nephrol** 1997 Jan; 47(1):33-6

Complex regional pain syndrome (reflex sympathetic dystrophy and causalgia): management with the calcium channel blocker nifedipine and/or the alpha-sympathetic blocker phenoxybenzamine in 59 patients. Muizelaar JP, et al. **Clin Neurol Neurosurg** 1997 Feb;99(1):26-30

Prolactin response to bromocriptine in flunarizine-treated migrainous women. Cupini LM, et al. **Clin Neuropharmacol** 1997 Jun;20(3):234-8

The management of coexisting depression in patients with dementia: potential of calcium channel antagonists. De Vry J, et al. **Clin Neuropharmacol** 1997 Feb;20(1):22-35 (88 ref.)

Evaluation of fasudil hydrochloride treatment for wandering symptoms in cerebrovascular dementia with 31P-magnetic resonance spectroscopy and Xe-computed tomography. Kamei S, et al. **Clin Neuropharmacol** 1996 Oct;19(5):428-38

Nimodipine pharmacotherapeutic adjuvant therapy for inpatient treatment of cocaine dependence. Rosse RB, et al. **Clin Neuropharmacol** 1994 Aug;17(4):348-58

Effects of nifedipine, a calcium channel antagonist, on cognitive function in schizophrenic patients with tardive dyskinesia. Schwartz BL, et al. **Clin Neuropharmacol** 1997 Aug;20(4):364-70

Can nimodipine affect progression of motor neuron disease? A double-blind pilot study. Ziv I, et al. **Clin Neuropharmacol** 1994 Oct;17(5):423-8

Valsartan, a new angiotensin II antagonist for the treatment of essential hypertension: a comparative study of the efficacy and safety against amlodipine. Corea L, et al. **Clin Pharmacol Ther** 1996 Sep;60(3):341-6

Treatment of patients with essential hypertension: amlodipine 5 mg/benazepril 20 mg compared with amlodipine 5 mg, benazepril 20 mg, and placebo. Kuschnir E, et al. **Clin Ther** 1996 Nov-Dec;18(6):1213-24

Efficacy of combination antiplatelet therapy and nicardipine for chronic cerebral infarction. Nomura H, et al. **Clin Ther** 1996 May-Jun;18(3):483-90

Efficacy, tolerability, and quality of life of losartan, alone or with hydrochlorothiazide, versus nifedipine GITS in patients with essential hypertension. Weir MR, et al. **Clin Ther** 1996 May-Jun;18(3):411-28

Medical & surgical approaches to pulmonary hypertension. McLaughlin VV, et al. **Compr Ther** 1997 Sep;23(9):612-6 (21 ref.)

Ramipril and felodipine: a comparison of the efficacy and safety of monotherapy versus combination therapy. Poisson P, et al. **Curr Med Res Opin** 1996;13(8):445-56

The value of nifedipine in the treatment of hypertension, coronary heart disease and myocardial infarction (post-infarction therapy). Schulz J, et al. **Curr Med Res Opin** 1996;13(7):397-408 (25 ref.)

Calcium antagonists in the treatment of hypertension: special clinical considerations. Maher MJ, et al. **Curr Opin Nephrol Hypertens** 1996 Sep;5(5):437-41 (30 ref.)

Evaluation of the efficacy and tolerability of nitrendipine in reducing both pressure and left ventricular mass in hypertensive type 2 diabetic patients. Scognamiglio R, et al. **Diabetes Care** 1997 Aug;20(8):1290-2

Effect of nifedipine, captopril and prazosin on secretory function of pancreatic beta-cells in hypertensive patients with type-2 (non-insulin-dependent) diabetes and in hypertensive non-diabetics. Jasik M, et al. **Diabetes Res Clin Pract** 1996 Jun;33(1):59-66

Effect of manidipine and delapril on insulin sensitivity in type 2 diabetic patients with essential hypertension. Suzuki S, et al. **Diabetes Res Clin Pract** 1996 Jun;33(1):43-51

Anti-ischaemic therapy during the follow-up phase of acute coronary syndromes. Is there a role for calcium channel blockers? Boden WE. **Drugs** 1996;52 Suppl 4:20-30 (19 ref.)

Verapamil: a review of its pharmacological properties and therapeutic use in coronary artery disease. Brogden RN, et al. **Drugs** 1996 May;51(5):792-819 (194 ref.)

Endothelial dysfunction and hypertension. Ferro CJ, et al. **Drugs** 1997;53 Suppl 1:30-41 (102 ref.)

Current drug treatment and treatment patterns with antihypertensive drugs. Freis ED, et al. **Drugs** 1996 Jul; 52(1):1-16 (136 ref.)

Nisoldipine coat-core. A review of its pharmacodynamic and pharmacokinetic properties and clinical efficacy in the management of ischaemic heart disease. Langtry HD, et al. **Drugs** 1997 May;53(5):867-84 (48 ref.)

The prevention of cardiovascular events. A new challenge for calcium channel blockers. Introduction. Lie KI. **Drugs** 1996;52 Suppl 4:1-2

Endothelial function and the kidney. An emerging target for cardiovascular therapy. Rabelink TJ, et al. **Drugs** 1997;53 Suppl 1:11-9 (63 ref.)

Role of calcium channel blockers in reducing acute ischaemia and preventing restenosis in PTCA. Vahanian A, et al. **Drugs** 1996;52 Suppl 4:9-15; discussion 15-6 (35 ref.)

Chemoprophylaxis of diabetic nephropathy in the elderly. Jungmann E. **Drugs Aging** 1996 Dec;9(6):449-57 (53 ref.)

Present and future role of calcium antagonists in cardiac protection and treatment of coronary artery disease. Nice, France, 14-16 March 1996. Proceedings. **Eur Heart J** 1997 Jan;18 Suppl A:A1-138

Angina and left ventricular dysfunction. Dargie HJ. **Eur Heart J** 1996 Dec;17 Suppl G:2-7 (25 ref.)

Treatment effects on the total ischaemic burden and prognostic implications. Deanfield J. **Eur Heart J** 1996 Dec;17 Suppl G:64-8 (30 ref.)

Effects of antianginal therapy with a calcium antagonist and nitrates on dobutamine-atropine stress echocardiography. Comparison with exercise electrocardiography [see comments] Dodi C, et al. **Eur Heart J** 1997 Feb;18(2):242-7 . Comment in: Eur Heart J 1997 Feb;18(2):180-1.

How European cardiologists perceive the role of calcium antagonists in the treatment of stable angina. Fox KM, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A113-6 (3 ref.)

The unnecessary controversy [see comments] Furberg CD, et al. **Eur Heart J** 1996 Aug;17(8):1142-7 (45 ref.). Comment in: Eur Heart J 1997 Jan;18(1):166-7. Comment in: Eur Heart J 1997 Jan;18(1):167-8.

Calcium antagonist treatment, sympathetic activity and platelet function. Hjemdahl P, et al. **Eur Heart J** 1997 Jan; 18 Suppl A:A36-50 (105 ref.)

How European cardiologists perceive the role of calcium antagonists in the treatment of heart failure and left ventricular dysfunction. Iliceto S, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A125-33 (2 ref.)

Left ventricular dysfunction: which role for calcium antagonists? Iliceto S. **Eur Heart J** 1997 Jan;18 Suppl A:A87-91 (25 ref.)

Calcium antagonist drugs in hypertensive patients with angina pectoris. Just H, et al. **Eur Heart J** 1996 Dec;17 Suppl G:20-4 (27 ref.)

Long-term survival after myocardial infarction: relationship with thrombolysis and discharge medication. Results of the Augsburg Myocardial Infarction Follow-up Study 1985 to 1993 [see comments] Koenig W, et al. **Eur Heart J** 1996 Aug;17(8):1199-206. Comment in: Eur Heart J 1997 Jan;18(1):168-9.

How European cardiologists perceive the role of calcium antagonists in follow-up after myocardial infarction. Opie LH, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A134-8 (4 ref.)

Nifedipine and other calcium channel blockers [letter; comment] Pahor M. **Eur Heart J** 1997 Jan;18(1):168. Comment on: Eur Heart J 1996 Aug;17(8):1152-7.

How european cardiologists perceive the role of calcium antagonists in the treatment of unstable angina. Pepine CJ, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A117-24 (3 ref.)

The calcium antagonist controversy; implications beyond drug prescription [editorial] Poole-Wilson PA. **Eur Heart J** 1996 Aug;17(8):1131-3

Nifedipine in acute coronary syndromes: Furberg's refrain revisited. Rafflenbeul W. **Eur Heart J** 1996 Aug; 17(8):1147-52 (38 ref.)

Angina pectoris in patients with a history of myocardial infarction. Sellier P. **Eur Heart J** 1996 Dec;17 Suppl G:25-9 (30 ref.)

Sustained improvement of pulmonary haemodynamics with low-dose of nifedipine in primary pulmonary hypertension [letter] Shimabukuro M, et al. **Eur Heart J** 1996 Dec; 17(12):1911-2 (5 ref.)

Critical appraisal of recent studies on nifedipine and other calcium channel blockers in coronary artery disease and hypertension [see comments] Tijssen JG, et al. **Eur Heart J** 1996 Aug;17(8):1152-7 (18 ref.). Comment in: Eur Heart J 1997 Jan;18(1):168.

High-dose recombinant interleukin-2/verapamil combination in advanced cancer [letter] Tagliaferri P, et al. **Eur J Cancer** 1996 Jul;32A(8):1436-7

Carvedilol versus verapamil in chronic stable angina: a multicentre trial. Hauf-Zachariou U, et al. **Eur J Clin Pharmacol** 1997;52(2):95-100

The acute effects of intravenously administered mibefradil, a new calcium antagonist, on the electrophysiologic characteristics of the human heart. Rosenquist M, et al. **Eur J Clin Pharmacol** 1997;52(1):7-12

The potential synergistic effect of calcium channel blockers and alpha-tocopherol on gastric mucosal injury induced by ischaemia-reperfusion. al-Dohayan AD, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1107-10

Nicardipine versus salbutamol in the treatment of premature labor. A prospective randomized study. Jannet D, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):11-6

The portal pressure response to beta-blockade is greater in cirrhotic patients without varices than in those with varices. Escorsell A, et al. **Gastroenterology** 1997 Jun;112(6):2012-6

Influence of physical exercise and nifedipine on ocular pulse amplitude. Schmidt KG, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234(8):527-32

Nimodipine at a dose that slows ABR latencies does not protect the ear against noise. Ison JR, et al. **Hear Res** 1997 Apr;106(1-2):179-83

Effects of enalapril and nitrendipine on exercise albuminuria in normotensive type I diabetic patients with incipient nephropathy. Heinemann L, et al. **Horm Metab Res** 1996 Oct;28(10):549-52

Effects of ACE inhibitors versus calcium antagonists on left ventricular morphology and function in patients with essential hypertension. Matsuzaki K, et al. **Hypertens Res** 1997 Mar;20(1):7-10

Effects of long-term antihypertensive therapy on physical fitness of men with mild hypertension. Tomiyama H, et al. **Hypertens Res** 1997 Jun;20(2):105-11

Effect of calcium channel or beta-blockade on the progression of diabetic nephropathy in African Americans. Bakris GL, et al. **Hypertension** 1997 Mar;29(3):744-50

Influence of the angiotensin II type 1 receptor gene polymorphism on the effects of perindopril and nitrendipine on arterial stiffness in hypertensive individuals. Benetos A, et al. **Hypertension** 1996 Dec;28(6):1081-4

Calcium channel blockers blunt postural cutaneous vasoconstriction in hypertensive patients. Iabichella ML, et al. **Hypertension** 1997 Mar;29(3):751-6

Different concepts in first-line treatment of essential hypertension. Comparison of a low-dose reserpine-thiazide combination with nitrendipine monotherapy. German Reserpine in Hypertension Study Group. Krönig B, et al. **Hypertension** 1997 Feb;29(2):651-8

Safety of nifedipine in patients with hypertension: a meta-analysis. Stason WB, et al. **Hypertension** 1997 Jul;30(1 Pt 1):7-14

The effects of nimodipine on ischemic injury of the spinal cord during thoracic aortic cross-clamping. Rhee RY, et al. **Int Angiol** 1996 Jun;15(2):153-61

Diltiazem, a calcium antagonist, partly attenuates the effects of dextroamphetamine in healthy volunteers. Fabian JE, et al. **Int Clin Psychopharmacol** 1997 Mar;12(2):113-20

Antihypertensive efficacy of a once a day verapamil SR/trandolapril combination. Oren S, et al. **Int J Cardiol** 1996 Jul 5;55(1):97-102

Acute hemodynamic and long-term clinical effects of isradipine in patients with coronary artery disease and chronic heart failure. A double-blind, placebo-controlled study. van den Toren EW, et al. **Int J Cardiol** 1996 Jan; 53(1):37-43

Nilvadipine in hypertension--experience in ambulatory treatment. Hoffmann A, et al. **Int J Clin Pharmacol Ther** 1997 May;35(5):195-203

Influence of cisapride on the pharmacokinetics and antihypertensive effect of sustained-release nifedipine. Satoh C, et al. **Intern Med** 1996 Dec;35(12):941-5

Progression of renal disease--can it be reversed? The role of calcium channel blockers and angiotensin-converting enzyme inhibitors. Boner G. **Isr J Med Sci** 1996 Dec; 32(12):1217-21 (42 ref.)

Gallopamil reduces the post-transplantation acute tubular necrosis in kidneys from aged donors. Lustig S, et al. **Isr J Med Sci** 1996 Dec;32(12):1249-51

Treatment of systemic hypertension in cats with amlodipine besylate. Henik RA, et al. **J Am Anim Hosp Assoc** 1997 May-Jun;33(3):226-34

Percutaneous transluminal coronary angioplasty versus medical therapy for stable angina pectoris: outcomes for patients with double-vessel versus single-vessel coronary artery disease in a Veterans Affairs Cooperative randomized trial. Veterans Affairs ACME InvestigatorS [see comments] Folland ED, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1505-11. Comment in: J Am Coll Cardiol 1997 Jun;29(7):1512-4.

Role of cytokines in the mechanism of action of amlodipine: the PRAISE Heart Failure Trial. Prospective Randomized Amlodipine Survival Evaluation. Mohler ER 3rd, et al. **J Am Coll Cardiol** 1997 Jul;30(1):35-41

Angiotensin-converting enzyme inhibitors, angiotensin II receptor antagonists and calcium channel blocking agents: a review of potential benefits and possible adverse reactions. Moser M. **J Am Coll Cardiol** 1997 Jun; 29(7):1414-21 (46 ref.)

Increased survival after long-term treatment with mibefradil, a selective T-channel calcium antagonist, in heart failure. Mulder P, et al. **J Am Coll Cardiol** 1997 Feb;29(2):416-21

Effects of nifedipine and nitroglycerin on left ventricular systolic dysfunction and impaired diastolic filling after exercise-induced ischemia in humans. Stoddard MF, et al. **J Am Coll Cardiol** 1996 Oct;28(4):915-23

Blood pressure reduction and tolerability of felodipine ER in older and younger hypertensive patients. The Felodipine ER in the Elderly versus Young Working Group. Fagan TC. **J Am Geriatr Soc** 1997 Jun;45(6):712-7

Contrasting effects of calcium channel blockade versus converting enzyme inhibition on proteinuria in African Americans with non-insulin-dependent diabetes mellitus and nephropathy. Guasch A, et al. **J Am Soc Nephrol** 1997 May;8(5):793-8

Angiotensin II and calcium blockers prevent glomerular phenotypic changes in remnant kidney model. Hamaguchi A, et al. **J Am Soc Nephrol** 1996 May;7(5):687-93

Renal interstitial sclerosis in aging: effects of enalapril and nifedipine. Inserra F, et al. **J Am Soc Nephrol** 1996 May; 7(5):676-80

Individual and combined effects of verapamil or trandolapril on attenuating hypertensive glomerulopathic changes in the stroke-prone rat. Münter K, et al. **J Am Soc Nephrol** 1996 May;7(5):681-6

Arteriolar wall thickening, capillary rarefaction and interstitial fibrosis in the heart of rats with renal failure:the effects of ramipril, nifedipine and moxonidine. Törnig J, et al. **J Am Soc Nephrol** 1996 May;7(5):667-75

Nimodipine for treatment of idiopathic epilepsy in dogs. O'Brien DP, et al. **J Am Vet Med Assoc** 1997 May 1; 210(9):1298-301

NMDA receptor-blocker ketamine protects during acute carbon monoxide poisoning, while calcium channel-blocker verapamil does not. Penney DG, et al. **J Appl Toxicol** 1996 Jul-Aug;16(4):297-304

Use of calcium channel blockers in acute ischemic cerebrovascular disease [see comments] Dalal PM, et al. **J Assoc Physicians India** 1995 Jun;43(6):394-7. Comment in: J Assoc Physicians India 1996 Jan;44(1):71-2.

Clinical trial of nicardipine in treatment of mild to moderate hypertension [see comments] Yajnik VH, et al. **J Assoc Physicians India** 1995 Jun;43(6):401-3. Comment in: J Assoc Physicians India 1996 Jan;44(1):71-2.

Prostaglandin E2 (PGE2) and risedronate was superior to PGE2 alone in maintaining newly added bone in the cortical bone site after withdrawal in older intact rats. Ma YF, et al. **J Bone Miner Res** 1997 Feb;12(2):267-75

Calcium channel blockers in heart failure: help or hindrance? Konstam MA, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S251-7 (35 ref.)

Calcium antagonists in patients with left ventricular dysfunction: back on the bridge? Lewis BS. **J Card Fail** 1996 Dec;2(4 Suppl):S259-65 (52 ref.)

Ion channel blockers in the treatment of chronic heart failure. Toyama J, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S243-9 (44 ref.)

Intravenous nicardipine in the treatment of postoperative arterial hypertension. Vincent JL, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):160-4

Potential modification of plaque behavior through the European lacidipine study on atherosclerosis. Bond MG, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S11-6

The potential role of calcium antagonists in the management of congestive heart failure: initial experience with lacidipine. de Vries RJ, et al. **J Cardiovasc Pharmacol** 1995; 25 Suppl 3:S33-9

Suppression of inducible ventricular arrhythmias by intravenous azimilide in dogs with previous myocardial infarction. Drexler AP, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):848-55

Felodipine and amlodipine in stable angina pectoris: results of a randomized double-blind crossover trial. Koenig W, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):520-4

Second-generation calcium antagonists and ambulatory blood pressure monitoring. Mallion JM, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S17-22

Potent antifibrillatory effect of combined blockade of calcium channels and 5-HT2 receptors with nexopamil during myocardial ischemia and reperfusion in dogs: comparison to diltiazem. Nearing BD, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):777-87

Twenty-four-hour antihypertensive efficacy of felodipine 10 mg extended-release: the Italian inter-university study. Pannarale G, et al. **J Cardiovasc Pharmacol** 1996 Feb; 27(2):255-61

The antiatherosclerotic effects of calcium antagonists. Paoletti R, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S6-10 (30 ref.)

The impact of lacidipine, a novel dihydropyridine calcium antagonist, on carbohydrate and lipid metabolism. Spieker C, et al. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S23-6

Additive hypotensive effect of a dihydropyridine calcium antagonist to that produced by a thiazide diuretic: a double-blind placebo-controlled crossover trial with ambulatory blood pressure monitoring. Stergiou GS, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):412-6

French large-scale study evaluating the tolerability and efficacy of lacidipine. Tcherdakoff P. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S27-32

Mibefradil, a selective calcium T-channel blocker, in stroke-prone spontaneously hypertensive rats. Vacher E, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):686-94

Autoregulation of total and zonal glomerular filtration rate in spontaneously hypertensive rats during antihypertensive therapy. Wang X, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):833-41

Does verapamil help overcome multidrug resistance in tumor cell lines and cancer patients? Timcheva CV, et al. **J Chemother** 1996 Aug;8(4):295-9

Bisphosphonate risedronate prevents bone loss in women with artificial menopause due to chemotherapy of breast cancer: a double-blind, placebo-controlled study. Delmas PD, et al. **J Clin Oncol** 1997 Mar;15(3):955-62

Nilvadipine is effective for chronic schizophrenia in a double-blind placebo-controlled study. off Yamada K, et al. **J Clin Psychopharmacol** 1996 Dec;16(6):437-9

Protective effect of verapamil on renal tissue during shockwave application in rabbit model. Yaman O, et al. **J Endourol** 1996 Aug;10(4):329-33

Haemodynamic effects of chronic tetrandrine treatment in portal hypertensive rats. Huang YT, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):585-9

Systemic calcium channel blockers and glaucoma. Kanellopoulos AJ, et al. **J Glaucoma** 1996 Oct;5(5):357-62 (44 ref.)

Lack of effect of calcium channel blockers on open-angle glaucoma. Liu S, et al. **J Glaucoma** 1996 Jun;5(3):187-90

A color Doppler analysis of nifedipine-induced posterior ocular blood flow changes in open-angle glaucoma. Wilson RP, et al. **J Glaucoma** 1997 Aug;6(4):231-6

Effects of an ACE inhibitor combined with a calcium channel blocker on progression of diabetic nephropathy. Bakris G, et al. **J Hum Hypertens** 1997 Jan;11(1):35-8 (35 ref.)

INSIGHT: international nifedipine GITS study intervention as a goal in hypertension treatment. Brown MJ, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S157-60

Hemodynamic and 24-h blood pressure profile of amlodipine monotherapy. Ibrahim MM, et al. **J Hum Hypertens** 1996 Jul;10(7):489-94

Double-blind, parallel, comparative multicentre study of a new combination of diltiazem and hydrochlorothiazide with individual components in patients with mild or moderate hypertension [see comments] Manning G, et al. **J Hum Hypertens** 1996 Jul;10(7):443-8. Comment in: J Hum Hypertens 1997 Apr;11(4):249-50.

Review: calcium antagonists and diuretics; a useful combination in the management of hypertension? [see comments] Manning G, et al. **J Hum Hypertens** 1996 Jul; 10(7):441-2 (21 ref.). Comment in: J Hum Hypertens 1997 Apr;11(4):249-50.

Felodipine in the treatment of severe refractory hypertension. Nussinovitch N, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S165-7

Commentary: calcium antagonist controversy, does the accusing finger also point to beta-blockers and methyldopa? Opie LH. **J Hum Hypertens** 1997 Apr; 11(4):201-4 (21 ref.)

Efficacy of low felodipine dose monotherapy in mild-to-moderate hypertension: a comparison between office and ambulatory blood pressure monitoring. Podjarny E, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S153-6

Diltiazem slow-release and left-ventricular hypertrophy: a volumetric approach of left ventricular mass using magnetic resonance imaging. Roul G, et al. **J Hum Hypertens** 1997 Jun;11(6):379-85

Low dosages of felodipine ER once daily as monotherapy in elderly hypertensive patients: effect on ambulatory blood pressure and quality of life. van Ree JW, et al. **J Hum Hypertens** 1996 Sep;10(9):613-8

A randomised, double-blind trial comparing mibefradil and amlodipine: two long-acting calcium antagonists with similar efficacy but different tolerability profiles. Mibefradil International Study Group. Viskoper RJ, et al. **J Hum Hypertens** 1997 Jun;11(6):387-93

Nifedipine and captopril exert divergent effects on heart rate variability in patients with acute episodes of hypertension. Wolk R, et al. **J Hum Hypertens** 1996 May;10(5):327-32

Quality of life in normotensives compared to hypertensive men treated with isradipine or methyldopa as monotherapy or in combination with captopril: the LOMIR-MCT-IL study. Yodfat Y, et al. **J Hum Hypertens** 1996 Feb; 10(2):117-22

Shanghai trial of nifedipine in the elderly (STONE). Gong L, et al. **J Hypertens** 1996 Oct;14(10):1237-45

Structural changes of small resistance arteries in spontaneously hypertensive rats after treatment with various doses of lacidipine. Porteri E, et al. **J Hypertens** 1997 Jun;15(6):619-25

Effects of antihypertensive therapy with angiotensin converting enzyme inhibitors or calcium antagonists on spontaneous cyclic vasomotor activity in small resistance arteries of spontaneously hypertensive rats. Rizzoni D, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1827-32

Renal haemodynamic and protective effects of calcium antagonists in hypertension. Zanchi A, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1363-75 (134 ref.)

Vascular and neuronal hypertensive brain damage: protective effect of treatment with nicardipine. Amenta F, et al. **J Hypertens Suppl** 1996 Oct;14(3):S29-35

Angiotensin converting enzyme inhibitor-calcium antagonist combination: an alliance for cardioprotection? Ferrari R. **J Hypertens Suppl** 1997 Mar;15(2):S109-17 (87 ref.)

Antihypertensive therapy debate: contribution from the Shanghai Trial Of Nifedipine in the Elderly (STONE). Hamet P, et al. **J Hypertens Suppl** 1996 Nov;14(4):S9-14 (63 ref.)

Treatment with verapamil and trandolapril in patients with congestive heart failure and myocardial infarction. The Danish Verapamil Infarction Trial (DAVIT Study Group). Hansen JF, et al. **J Hypertens Suppl** 1997 Mar; 15(2):S119-22 (32 ref.)

Preclinical considerations and results with the combination of verapamil and trandolapril: blood pressure reduction and beyond. Kirchengast M. **J Hypertens Suppl** 1997 Mar; 15(2):S27-33 (41 ref.)

Safety of the calcium antagonist lacidipine evaluated from a phase III-IV trial database. Lindholm LH, et al. **J Hypertens Suppl** 1996 Sep;14(2):S15-20

Benefit versus risk of calcium antagonists in hypertensive

patients with concomitant risk factors. Mancia G, et al. **J Hypertens Suppl** 1996 Nov;14(4):S33–8 (40 ref.)
Complementary actions and risk reduction: the rationale for combination of an angiotensin converting enzyme inhibitor with a non-dihydropyridine calcium antagonist. Messerli FH. **J Hypertens Suppl** 1997 Mar;15(2):S35–8 (17 ref.)
Renal protection in diabetes: an emerging role for calcium antagonists. Parving HH, et al. **J Hypertens Suppl** 1996 Nov;14(4):S21–5 (54 ref.)
Angiotensin converting enzyme inhibitors, calcium channel blockers, and their combination in the treatment of glomerular disease. Ritz E, et al. **J Hypertens Suppl** 1997 Mar;15(2):S21–6 (44 ref.)
Clinical pharmacology of calcium antagonists as antihypertensive and anti-anginal drugs. van Zwieten PA. **J Hypertens Suppl** 1996 Oct;14(3):S3–9 (46 ref.)
Current position of calcium antagonists in hypertension. Zanchetti A. **J Hypertens Suppl** 1996 Oct;14(3):S11–5 (37 ref.)
Evaluating the benefits of an antihypertensive agent using trials based on event and organ damage: the Systolic Hypertension in the Elderly Long-term Lacidipine (SHELL) trial and the European Lacidipine Study on Atherosclerosis (ELSA). Zanchetti A. **J Hypertens Suppl** 1995 Dec;13(4):S35–9 (28 ref.)
Concomitant diseases in elderly hypertensives: the position of nicardipine. Zannad F. **J Hypertens Suppl** 1996 Oct; 14(3):S37–40 (34 ref.)
Direct drug control of the vascular wall. Paoletti R, et al. **J Med Liban** 1995;43(3):122–5 (44 ref.)
Nisoldipine attenuates myocardial stunning induced by multiple coronary occlusions in conscious pigs and this effect is independent of changes in hemodynamics or coronary blood flow. Park SW, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):655–66
Clinical findings with nimodipine in dementia: test of the calcium hypothesis. Fritze J, et al. **J Neural Transm Suppl** 1995;46:439–53 (87 ref.)
Nifedipine for hiccups [letter; comment] Quigley C. **J Pain Symptom Manage** 1997 Jun;13(6):313. Comment on: J Pain Symptom Manage 1996 Jul;12(1):59–61.
Effects of verapamil on acute murine Chagas' disease. Tanowitz HB, et al. **J Parasitol** 1996 Oct;82(5):814–9
Nicardipine for controlled hypotension during spinal surgery. Tobias JD, et al. **J Pediatr Orthop** 1996 May–Jun; 16(3):370–3
Selective N-type neuronal voltage-sensitive calcium channel blocker, SNX-111, produces spinal antinociception in rat models of acute, persistent and neuropathic pain. Bowersox SS, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1243–9
Effects of a new calcium antagonist, CD–832, on isoproterenol-induced myocardial ischemia in dogs with partial coronary stenosis. Takahashi T, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1028–33
The prophylactic effects of superoxide dismutase, catalase, desferrioxamine, verapamil and disulfiram in experimental colitis. Köksoy FN, et al. **J R Coll Surg Edinb** 1997 Feb; 42(1):27–30
Limiting impairment of muscle function following ischemia and reperfusion in rabbits. Zavitsanos G, et al. **J Reconstr Microsurg** 1996 Apr;12(3):183–7
Felodipine use in pregnancy. Report of three cases. Casele HL, et al. **J Reprod Med** 1997 Jun;42(6):378–81
Preventing gastroepiploic artery spasm: papaverine vs calcium channel blockade. Ali AT, et al. **J Surg Res** 1997 Jul 15;71(1):41–8
Health outcomes associated with antihypertensive therapies used as first-line agents. A systematic review and meta-analysis [see comments] Psaty BM, et al. **JAMA** 1997 Mar 5;277(9):739–45. Comment in: JAMA 1997 Jun 11;277(22):1759–60. Comment in: ACP J Club 1997 Sep–Oct;127(2):36.
Comparison of the therapeutic effects of the beta-blocking agent bisoprolol and the calcium-blocking agent diltiazem in patients with heart failure due to dilated cardiomyopathy. Suwa M, et al. **Jpn Circ J** 1996 Oct; 60(10):767–73
Calcium antagonists and prevention of ventricular fibrillation induced by transient or persistent ischemia. Timour Q, et al. **Jpn Heart J** 1997 Mar;38(2):237–51
Calcium channel blockers versus other antihypertensive therapies on progression of NIDDM associated nephropathy. Bakris GL, et al. **Kidney Int** 1996 Nov; 50(5):1641–50
Renal hemodynamics in hypertensive renal allograft recipients: effects of calcium antagonists and ACE inhibitors. Grekas D, et al. **Kidney Int Suppl** 1996 Jun; 55:S97–100
Nitrendipine and enalapril improve albuminuria and glomerular filtration rate in non-insulin dependent diabetes. Mosconi L, et al. **Kidney Int Suppl** 1996 Jun;55:S91–3
Improvement in renal function by felodipine during cyclosporine treatment in acute and short-term studies. Pedersen EB, et al. **Kidney Int Suppl** 1996 Jun;55:S94–6
Nitrendipine and enalapril in the treatment of diabetic hypertensive patients with microalbuminuria. Piñol C, et al. **Kidney Int Suppl** 1996 Jun;55:S85–7
Antihypertensive agents and renal protection: calcium channel blockers. Saruta T, et al. **Kidney Int Suppl** 1996 Jun;55:S52–6
Calcium-antagonist controversy: the long and short of it? [comment] McMurray J, et al. **Lancet** 1997 Mar 1; 349(9052):585–6. Comment on: Lancet 1997 Mar 1;349(9052):594–8.
Randomised double-blind comparison of placebo and active treatment for older patients with isolated systolic hypertension. The Systolic Hypertension in Europe (Syst-Eur) Trial Investigators. Staessen JA, et al. **Lancet** 1997 Sep 13;350(9080):757–64
Amaurosis fugax treated with nifedipine [letter] Davis AR. **Med J Aust** 1997 Aug 4;167(3):176
Effects of verapamil on electroconvulsive shock- and clonidine-induced amnesia. Bojanova E, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar;19(2):93–7
Amlodipine in chronic heart failure [letter; comment] Allan JJ. **N Engl J Med** 1997 Apr 3;336(14):1023–4; discussion 1024. Comment on: N Engl J Med 1996 Oct 10;335(15):1107–14.
Amlodipine in chronic heart failure [letter; comment] Bobbio M. **N Engl J Med** 1997 Apr 3;336(14):1023; discussion 1024 . Comment on: N Engl J Med 1996 Oct 10;335(15):1107–14.
Amlodipine in chronic heart failure [letter; comment] Poole-Wilson PA. **N Engl J Med** 1997 Apr 3;336(14):1023; discussion 1024. Comment on: N Engl J Med 1996 Oct 10;335(15):1107–14.
Bacterial infections in diabetes mellitus: are calcium channel blockers beneficial? [editorial; comment] Orth SR, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):248–9. Comment on: Nephrol Dial Transplant 1997 Feb;12(2):265–72.
Reduction of renal function by angiotensin-converting enzyme inhibitors: effect of verapamil [letter] Bitar R, et al. **Nephron** 1997;75(4):486–7
Calcium antagonists, a useful additional therapy in treatment resistant hypertension: comparison of felodipine ER and nifedipine Retard by 24-h ambulatory blood pressure monitoring. Dees A, et al. **Neth J Med** 1997 Jan;50(1):2–12
Exploration of P-type Ca2+ channels as drug targets for the treatment of epilepsy or ischemic stroke. Lingenhöhl K, et al. **Neuropharmacology** 1997 Jan;36(1):107–13
Nimodipine, a centrally active calcium antagonist, exerts a beneficial effect on contrast sensitivity in patients with normal-tension glaucoma and in control subjects. Bose S, et al. **Ophthalmology** 1995 Aug;102(8):1236–41
Diltiazem for prevention of acoustical trauma during otologic surgery. Maurer J, et al. **ORL J Otorhinolaryngol Relat Spec** 1995 Nov–Dec; 57(6):319–24
Verapamil sensitive incessant ventricular tachycardia in the newborn. Dhala A, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1652–4
Nimodipine fails to enhance the analgesic effect of slow release morphine in the early phases of cancer pain treatment. Roca G, et al. **Pain** 1996 Dec;68(2–3):239–43
Blockade of calcium channels can prevent the onset of secondary hyperalgesia and allodynia induced by intradermal injection of capsaicin in rats. Sluka KA. **Pain** 1997 Jun;71(2):157–64
Efficacy and pharmacokinetics of gallopamil in patients with coronary artery disease. Ferrara N, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):37–41
Can we use calcium antagonist better in antihypertensive therapy? Circadian consideration. Zhang W. **Pharmacol Res** 1996 Nov–Dec;34(5–6):187–91
Comparative study on the effect of calcium channel blockers on basal and parathyroid hormone-induced bone resorption in vitro. Redlich K, et al. **Pharmacol Toxicol** 1997 Jun; 80(6):262–5
Influence of gallopamil on the gastric effects of stress in conscious rats. Coşkun T, et al. **Pharmacology** 1996 Apr; 52(4):199–206
Long-term effectiveness of enalapril plus extended-release diltiazem in essential hypertension. Applegate W, et al. **Pharmacotherapy** 1997 Jan–Feb;17(1):107–12
Prevention by calcium antagonists of profibrillatory effects of class I antiarrhythmic drugs in acute myocardial ischemia: study in pig heart in situ. Bui-Xuan B, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):737–45
Treatment of supraventricular tachyarrhythmias with intravenous calcium channel blockers: are subtle differences worth the cost? Cheiman DM, et al. **Pharmacotherapy** 1996 Sep–Oct;16(5):861–8 (29 ref.)
Pharmacologic prophylaxis of supraventricular tachyarrhythmias after coronary artery bypass. Dorovenis SA, et al. **Pharmacotherapy** 1996 Jul–Aug;16(4):615–8 (24 ref.)
Calcium channel blockers: the present and the future [editorial] Pieper JA. **Pharmacotherapy** 1997 Mar–Apr; 17(2):408–12 (26 ref.)
Calcium channel blockers in psychiatry. Hollister LE, et al. **Prog Drug Res** 1996;47:279–92 (59 ref.)
Effects of OKY-046 and nifedipine in cyclosporine-induced renal dysfunction in rats. Papanikolaou N, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):249–56
Effectiveness of nilvadipine in two cases of chronic schizophrenia. Yamada K, et al. **Psychiatry Clin Neurosci** 1995 Aug;49(4):237–8
The benefits of ACE inhibitors and calcium antagonists in slowing progressive renal failure: focus on fixed-dose combination antihypertensive therapy. Epstein M. **Ren Fail** 1996 Nov;18(6):813–32 (101 ref.)
Therapeutic strategies in the prevention of acute renal failure. García RE. **Ren Fail** 1997 Mar;19(2):231–5 (23 ref.)
Amlodipine inhibits the development of right ventricular hypertrophy and medial thickening of pulmonary arteries in a rat model of pulmonary hypertension. Takahashi T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan; 91(1):17–32
Revisiting calcium channel blockers--from basic facts to clinical practice. **S Afr Med J** 1996 Jun;86 Suppl 3:C171–3
Innovations in pharmacologic therapies. Miaskowski C. **Semin Oncol Nurs** 1997 Feb;13(1):30–5 (44 ref.)
[Quantitative study on the effect of osthole on proximal tibiae in ovariectomized (OVX) rats] Li CY, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):327–32 (Eng. Abstr.) **(Chi)**
[Calcium inhibitors and post-infarction] Vacheron A. **Ann Cardiol Angeiol (Paris)** 1996 Oct;45(8):465–7 (14 ref.) (Eng. Abstr.) **(Fre)**
[Calcium channel blockers in pregnancy] Tchobroutsky C. **Presse Med** 1996 Sep 28;25(28):1297–300 (28 ref.) (Eng. Abstr.) **(Fre)**
[Nifedipine and coronary insufficiency reasons for controversy] Lièvre M, et al. **Therapie** 1997 Jan–Feb; 52(1):37–45 (49 ref.) (Eng. Abstr.) **(Fre)**
[Mibefradil opens up a new class of calcium antagonists. Glasgow, 23 June 1996] **Dtsch Med Wochenschr** 1996 Sep 27;121(39 Suppl):1–4 **(Ger)**
[Present and future role of calcium antagonists in cardiac protection and treatment of coronary artery disease. Nice, 14–16 March 1996] **Dtsch Med Wochenschr** 1996;121(24 Suppl):1–8 **(Ger)**
[Progress in new cardiovascular treatment. Background discussion and interview in the Basel Roche Research Center (interview)] **Keil U. Fortschr Med** 1996 Feb 10; 114(4):39–40 **(Ger)**
[Atherosclerosis and nephropathy--calcium antagonists in preventive therapy] **Internist (Berl)** 1994 Jan;35(1 Suppl atherosk):1–8 **(Ger)**
[Is there a risk in treatment of hypertension with nifedipine?] **Düsing R. Internist (Berl)** 1996 Sep;37(9):939–41 **(Ger)**
[Use of calcium antagonists in ophthalmology (editorial)] **Pillunat LE. Klin Monatsbl Augenheilkd** 1996 Jun; 208(6):A1–2 **(Ger)**
[Calcium channel blockers scare] Zimlichman R. **Harefuah** 1997 Feb 2;132(3):223–5 (11 ref.) **(Heb)**
[Comparative study of verapamil and bisoprolol in the secondary prevention of myocardial infarction] Sárosi I, et al. **Orv Hetil** 1997 Aug 3;138(31):1939–45 (40 ref.) (Eng. Abstr.) **(Hun)**
[Calcium antagonists and ischemic heart disease] Simon K, et al. **Orv Hetil** 1996 Sep 29;137(39):2131–6 (66 ref.) (Eng. Abstr.) **(Hun)**
[Clinical effects of verapamil in the treatment of Peyronie's disease] Arena F, et al. **Acta Biomed Ateneo Parmense** 1995; 66(6):269–72 (Eng. Abstr.) **(Ita)**
[Effectiveness and tolerability of bisoprolol vs. nifedipine in uremic patients with ischemic cardiopathy in dialysis treatment] Cice G, et al. **Cardiologia** 1997 Apr; 42(4):397–403 (Eng. Abstr.) **(Ita)**
[Effectiveness of depot diltiazem in stable effort angina: a double-blind study compared with placebo] Baldi N, et al. **G Ital Cardiol** 1996 May;26(5):527–32 (Eng. Abstr.) **(Ita)**
[Transcutaneous oximetry in smokers with moderate hypertension and peripheral arterial disease treated with amlodipine and defibrotide, also with total smoking cessation] Cicco G, et al. **Minerva Cardioangiol** 1995 Oct; 43(10):423–8 (Eng. Abstr.) **(Ita)**
[The effect of calcium antagonist on ischemia-reperfusion injury of the rabbit retina] Mori T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Oct;100(10):773–6 (Eng. Abstr.) **(Jpn)**
[Overcoming of multidrug resistance and its clinical application] Tsuruo T. **Nippon Rinsho** 1997 May; 55(5):1111–5 (15 ref.) (Eng. Abstr.) **(Jpn)**
[The effect of ACE inhibitors, beta blockers and calcium antagonists on the responses to pressor stress tests in the elderly hypertensive patients] Suzuki Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):27–32 (Eng. Abstr.) **(Jpn)**
[Treatment of elderly patients with hypertension--complications and current drug therapy] Takagawa Y, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan; 34(1):30–7 (Eng. Abstr.) **(Jpn)**
[Effects of lacidipine, a new dihydropyridipine derivative, on various cerebral ischemia models] Funato H, et al. **Nippon Yakurigaku Zasshi** 1996 Nov;108(5):243–57 (Eng. Abstr.) **(Jpn)**
[Renal protective effects of calcium antagonists] Musialik D, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):266–70 (50 ref.) (Eng. Abstr.) **(Pol)**
[The role of calcium antagonists on coronary artery spasm and prevention of restenosis after angioplasty] Kocurek A, et al. **Przegl Lek** 1997;54(1):37–42 (23 ref.) (Eng. Abstr.) **(Pol)**
[Isoptin SR-240 and SR-120 in ambulatory treatment of arterial hypertension] Radziszewski A, et al. **Przegl Lek** 1996;53(3):166–7 (Eng. Abstr.) **(Pol)**
[Effect of verapamil on left ventricular hypertrophy induced by isoproterenol] Bombig MT, et al. **Arq Bras Cardiol** 1996 Aug;67(2):81–5 (Eng. Abstr.) **(Por)**
[The verapamil correction of postresuscitation damages to the heart] Korpacheva OV, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):48–51 (Eng. Abstr.) **(Rus)**
[The effect of calcium channel blockers on anxiety evoked

by amputation of the vibrissae in rats] Kozlovskiĭ VL, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):10-2 (Eng. Abstr.) **(Rus)**

[A critical evaluation of the therapeutic value of calcium antagonists] Metelitsa VI. **Eksp Klin Farmakol** 1996 Mar-Apr;59(2):56-61 (34 ref.) **(Rus)**

[The possible mechanisms of the antioxidant action of calcium channel blockers in the hypoxic syndrome] Savchenko LV, et al. **Eksp Klin Farmakol** 1996 Mar-Apr;59(2):53-5 (Eng. Abstr.) **(Rus)**

[The effect of verapamil on cardio- and hemodynamics in rats with various models of hypertension] Spasov AA, et al. **Eksp Klin Farmakol** 1997 May-Jun;60(3):30-3 (Eng. Abstr.) **(Rus)**

[Current conception of calcium antagonists use in cardiology. A. L. Miasnikov Research Institute of Cardiology] Scientific Society. **Klin Med (Mosk)** 1996;74(4):70-1 **(Rus)**

[Effectiveness of drug therapy alone or its combination with plasmapheresis in patients with severe angina pectoris] Sokolov AV, et al. **Klin Med (Mosk)** 1997;75(8):31-3 (Eng. Abstr.) **(Rus)**

[A comparative study of the membrane-protector efficacy of anaprilin and korinfar in hypertension patients] Gapon LI, et al. **Lik Sprava** 1996 Oct-Dec;(10-12):69-71 (Eng. Abstr.) **(Rus)**

[The treatment of vibration-induced disease with calcium-channel blockers] Kostiuk IF, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):157-60 (Eng. Abstr.) **(Rus)**

[The structural-functional status of the myocardium and central and regional hemodynamics in patients with essential hypertension under the influence of treatment with korinfar and its combination with anaprilin] Polivoda SN, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):32-4 **(Rus)**

[The use of the preparation Lomir in patients with arterial hypertension and postinfarct cardiosclerosis] Sledzevskaia IK, et al. **Lik Sprava** 1995 Mar-Apr;(3-4):138-40 (Eng. Abstr.) **(Rus)**

[The use of nitrates and slow calcium channel blockers in the treatment of patients with ischemic heart disease and disorders of intraventricular conduction] Vorob'ev LP, et al. **Lik Sprava** 1996 Jan-Feb;(1-2):62-8 (Eng. Abstr.) **(Rus)**

[Isradipine in arterial hypertension in motor vehicle drivers] Aramisova RM, et al. **Med Tr Prom Ekol** 1996;(8):21-3 (Eng. Abstr.) **(Rus)**

[The current concept of the use of calcium antagonists in cardiology. Resolution of the Academic Council of the A. L. Miasnikov Research Institute of Cardiology of the KNTs of the Russian Academy of Medical Sciences (see comments)] **Ter Arkh** 1996;68(9):18-9. Comment in: Ter Arkh 1996;68(9):5-7. **(Rus)**

[Calcium antagonists--the first-line preparations in modern cardiology (II)] Karpov IuA, et al. **Ter Arkh** 1997; 69(1):74-8 (58 ref.) **(Rus)**

[Nifedipine in ischemic heart disease: a ban on its use or a differential approach to therapy? (see comments)] Martsevich SIu. **Ter Arkh** 1996;68(9):31-5 (20 ref.) (Eng. Abstr.). Comment in: Ter Arkh 1996;68(9):5-7. **(Rus)**

[Glucocorticoid receptor function in hemorrhagic shock and its treatment by calcium antagonist] Golikov PP, et al. **Vopr Med Khim** 1997 May-Jun;43(3):139-47 (Eng. Abstr.) **(Rus)**

[The role of calcium inhibitors in the treatment of arterial hypertension] Hrnčiar J, et al. **Vnitr Lek** 1997 Feb; 43(2):74-80 (Eng. Abstr.) **(Slo)**

[Calcium channel blockers and cardiovascular morbidity mortality (editorial)] Robles NR. **An Med Interna** 1997 May;14(5):217-9 **(Spa)**

[Randomized, comparative study to evaluate efficacy and safety of doxazosin versus nitrendipine in the treatment of mild to moderate hypertension] Sanz Guajardo D, et al. **An Med Interna** 1997 Jan;14(1):15-9 (Eng. Abstr.) **(Spa)**

[Calcium antagonists and their impact on risk of coronary disease (editorial)] Roca-Cusachs A, et al. **Med Clin (Barc)** 1996 Oct 26;107(14):533-4 **(Spa)**

[Neuroprotection in cerebral ischemia] Martínez-Vila E, et al. **Neurologia** 1995 Dec;10 Suppl 2:30-6 (56 ref.) (Eng. Abstr.) **(Spa)**

[Nifedipine in the treatment of moderate and severe arterial hypertension. Long-term effect on arterial pressure and on the left ventricle] López NC, et al. **Rev Esp Cardiol** 1997 Aug;50(8):567-72 (Eng. Abstr.) **(Spa)**

[Felodipine in the treatment of essential arterial hypertension in elderly patients] Fasce E, et al. **Rev Med Chil** 1996 Jul; 124(7):821-7 (Eng. Abstr.) **(Spa)**

[Nicardipine and its indications in neurology] Moltó-Jordà JM, et al. **Rev Neurol** 1997 Aug;25(144):1235-41 (55 ref.) (Eng. Abstr.) **(Spa)**

TOXICITY

Cardiotoxicity of emetine dihydrochloride by calcium channel blockade in isolated preparations and ventricular myocytes of guinea-pig hearts. Lemmens-Gruber R, et al. **Br J Pharmacol** 1996 Jan;117(2):377-83

Acute exposure to inorganic lead modifies high-threshold voltage-gated calcium currents in rat PC12 cells. Hegg CC, et al. **Brain Res** 1996 Nov 4;738(2):333-6

Influence of isradipine, niguldipine and dantrolene on the anticonvulsive action of conventional antiepileptics in mice. Borowicz KK, et al. **Eur J Pharmacol** 1997 Mar 26; 323(1):45-51

omega-Conotoxins block neurotransmission in the rat vas deferens by binding to different presynaptic sites on the N-type Ca2+ channel. Hirata H, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):217-23

Helothermine, a lizard venom toxin, inhibits calcium current in cerebellar granules. Nobile M, et al. **Exp Brain Res** 1996 Jun;110(1):15-20

Suppressive effects of Bay K 8644 on toxicity of calcium channel blockers in cultured rat embryos. Ban Y, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):141-7

The effects of amrinone and glucagon on verapamil-induced myocardial depression in a rat isolated heart model. Tuncok Y, et al. **Gen Pharmacol** 1997 May;28(5):773-6

The effects of amrinone and glucagon on verapamil-induced cardiovascular toxicity in anaesthetized rats. Tuncok Y, et al. **Int J Exp Pathol** 1996 Oct;77(5):207-12

Toxin-resistant calcium currents in embryonic mouse sensory neurons. Hilaire C, et al. **Neuroscience** 1997 Sep; 80(1):267-76

Ethanol inhibition of reduced frequency-dependent rundown of calcium currents in acutely dissociated MS/nDB neurons from chronic in vivo lead-exposed adult rats. Grover CA, et al. **Neurotoxicology** 1997;18(1):179-90

Inhibition of steroid sex hormones release in rats by two Ca2+ channel blockers. Morad F, et al. **Pharmacol Res** 1997 Mar;35(3):177-80

Felodipine- and ethanol-induced gastric mucosal damage in rats. Liu XG, et al. **Pharmacology** 1995 Dec;51(6):391-7

Prenatal toxicity studies in rats and rabbits with the calcium channel blocker diproteverine. Ridings JE, et al. **Reprod Toxicol** 1996 Jan-Feb;10(1):43-9

Cardiovascular alterations in rat fetuses exposed to calcium channel blockers. Scott WJ Jr, et al. **Reprod Toxicol** 1997 Mar-Jun;11(2-3):207-14

The effects of verapamil and lidocaine on the duration of propofol and xylazine-ketamine anesthesia in broiler chickens. Roder JD, et al. **Vet Hum Toxicol** 1996 Jun; 38(3):181-3

CALCIUM CHANNELS

see related
CA(2+)-TRANSPORTING ATPASE
CALCIUM CHANNEL AGONISTS
CALCIUM CHANNEL BLOCKERS

Molecular basis of the diversity of calcium channels in cardiovascular tissues. Nargeot J, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A15-26 (67 ref.)

Pharmacology of Ca2+ release from red beet microsomes suggests the presence of ryanodine receptor homologs in higher plants. Muir SR, et al. **FEBS Lett** 1996 Oct 14; 395(1):39-42

Structure and function of inositol 1,4,5-trisphosphate receptor. Yoshida Y, et al. **Jpn J Pharmacol** 1997 Jun; 74(2):125-37 (119 ref.)

[Structure, function and expression of Ca2+ channels] Kameyama A, et al. **Nippon Rinsho** 1996 Mar;54(3):672-8 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Calcium channels] Abe T. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):219-23 (22 ref.) **(Jpn)**

[Inositol 1,4,5-trisphosphate receptor (IP3 receptor)] Mikoshiba K. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):224-9 (33 ref.) **(Jpn)**

[Calcium antagonists. Great tissue selectivity is the basis of their therapeutic use] Högestätt ED, et al. **Lakartidningen** 1997 Sep 3;94(36):3024-6, 3029-31 (82 ref.) (Eng. Abstr.) **(Swe)**

AGONISTS see CALCIUM CHANNEL AGONISTS

ANALYSIS

Distribution of Ca2+ channels on cochlear outer hair cells revealed by fluorescent dihydropyridines. Oshima T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C944-9

Immunohistochemical localization of the proteins associated with brain N-type calcium channels. Ishikawa H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:376-8

Expression of the cardiac ryanodine receptor in the compensated phase of hypertrophy in rat heart. Rannou F, et al. **Cardiovasc Res** 1996 Aug;32(2):258-65

A ryanodine-sensitive calcium store in ascidian eggs monitored by whole-cell patch-clamp recordings. Arnoult C, et al. **Cell Calcium** 1997 Feb;21(2):93-101

Does the nuclear envelope contain two types of ligand-gated Ca2+ release channels? Guihard G, et al. **FEBS Lett** 1997 Sep 1;414(1):89-94

Identification and subcellular localization of the subunits of L-type calcium channels and adenylyl cyclase in cardiac myocytes. Gao T, et al. **J Biol Chem** 1997 Aug 1; 272(31):19401-7

Spatial distribution of dihydropyridine receptors in the plasma membrane of guinea pig cardiac myocytes investigated by correlative confocal microscopy and label-fracture electron microscopy. Takagishi Y, et al. **J Electron Microsc (Tokyo)** 1997;46(2):165-70

Co-distribution of calmodulin-dependent protein kinase II and inositol trisphosphate receptors in an apical domain of gastrointestinal mucosal cells. Matovcik LM, et al. **J Histochem Cytochem** 1996 Nov;44(11):1243-50

Subtype-specific expression patterns of inositol 1,4,5-trisphosphate receptors in rat airway epithelial cells. Sugiyama T, et al. **J Histochem Cytochem** 1996 Nov; 44(11):1237-42

Developmental changes in action potential and membrane currents in fetal, neonatal and adult guinea-pig ventricular myocytes. Kato Y, et al. **J Mol Cell Cardiol** 1996 Jul; 28(7):1515-22

Expression of calcium channel subunits in the normal and diseased human myocardium. Haase H, et al. **J Mol Med** 1996 Feb;74(2):99-104

Comparison of type 2 inositol 1,4,5-trisphosphate receptor distribution and subcellular Ca2+ release sites that support Ca2+ waves in cultured astrocytes. Sheppard CA, et al. **J Neurochem** 1997 Jun;68(6):2317-27

N-Type calcium channels in the developing rat hippocampus: subunit, complex, and regional expression. Jones OT, et al. **J Neurosci** 1997 Aug 15;17(16):6152-64

Inositol 1,4,5-trisphosphate receptors in endocrine cells: localization and association in hetero- and homotetramers. Nucifora FC Jr, et al. **Mol Biol Cell** 1996 Jun;7(6):949-60

Rapid, simple and sensitive microassay for skeletal muscle homogenates in the functional assessment of the Ca-release channel of sarcoplasmic reticulum: application to diagnosis of susceptibility to malignant hyperthermia. O'Brien PJ, et al. **Mol Cell Biochem** 1997 Feb;167(1-2):61-72

The ryanodine binding sarcoplasmic reticulum calcium release channel in nonfailing and in failing human myocardium. Schumacher C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):80-5

Calcium-channel subtypes in the somata and axon terminals of magnocellular neurosecretory cells. Fisher TE, et al. **Trends Neurosci** 1996 Oct;19(10):440-4 (54 ref.)

ANTAGONISTS & INHIBITORS see CALCIUM CHANNEL BLOCKERS

BIOSYNTHESIS

Mechanically induced calcium increases in isolated vestibular hair cells of the guinea pig. López-Escámez JA, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):759-64

Molecular diversity of voltage-dependent calcium channel. Mori Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:87-108 (92 ref.)

Primary structure and tissue distribution of a novel calcium channel from rabbit brain. Niidome T, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:368-72

Cloning and mapping of a ryanodine receptor homolog gene of Caenorhabditis elegans. Sakube Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:540-5

Tissue-specific expression of putative domains of the mouse neuronal alpha-2 and delta genes of the voltage-gated calcium channel in rodent tissues. Wierzbicki AS, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:472-5

Molecular cloning and characterization of a putative neural calcium channel alpha1-subunit from squid optic lobe. Kimura T, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):147-54

Expression of dihydropyridine binding sites in renal epithelial cells. O'Neil RG, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):41-5

Differential expression of ryanodine receptor RyR2 mRNA in the non-pregnant and pregnant human myometrium. Awad SS, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):777-83

Developmental expression of the inositol 1,4,5-trisphosphate receptor and structural changes in the endoplasmic reticulum during oogenesis and meiotic maturation of Xenopus laevis. Kume S, et al. **Dev Biol** 1997 Feb 15; 182(2):228-39

Redistribution and increase in cortical inositol 1,4,5-trisphosphate receptors after meiotic maturation of the mouse oocyte. Mehlmann LM, et al. **Dev Biol** 1996 Dec 15;180(2):489-98

Identification of four trp1 gene variants murine pancreatic beta-cells. Sakura H, et al. **Diabetologia** 1997 May; 40(5):528-32

Tissue-specific alternative splicing of mouse brain type ryanodine receptor/calcium release channel mRNA. Miyatake R, et al. **FEBS Lett** 1996 Oct 21;395(2-3):123-6

Differential expression of voltage-gated Ca2+ conductances in human neuroblastoma NB69 cells cultured in defined serum-free and astrocyte-conditioned media. Urbano FJ, et al. **Glia** 1997 May;20(1):70-8

Transforming growth factor-beta1 inhibits type I inositol 1,4,5-trisphosphate receptor expression and enhances its phosphorylation in mesangial cells. Sharma K, et al. **J Biol Chem** 1997 Jun 6;272(23):14617-23

Altered mRNA abundance of calcium transport genes in cardiac myocytes induced by angiotensin II. Ju H, et al. **J Mol Cell Cardiol** 1996 May;28(5):1119-28

Endotoxin-induced cardiac depression is associated with decreased cardiac dihydropyridine receptors in rabbits. Lew WY, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1367-71

The molecular identity of Ca channel alpha 1-subunits expressed in rat sympathetic neurons. Lin Z, et al. **J Mol Neurosci** 1996 Winter;7(4):257-67

Identification of functionally distinct isoforms of the N-type Ca2+ channel in rat sympathetic ganglia and brain. Lin Z, et al. **Neuron** 1997 Jan;18(1):153-66

Chronic ethanol on mRNA levels of IP3R1, IP3 3-kinase and mGluR1 in mouse Purkinje neurons. Simonyi A, et al. **Neuroreport** 1996 Sep 2;7(13):2115-8

Opposite developmental regulation of P- and Q-type calcium

currents during ontogenesis of large diameter mouse sensory neurons. Hilaire C, et al. **Neuroscience** 1996 Dec; 75(4):1219–29

Coexpression of Drosophila TRP and TRP-like proteins in Xenopus oocytes reconstitutes capacitative Ca2+ entry. Gillo B, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):14146–51

Absence of the beta subunit (cchb1) of the skeletal muscle dihydropyridine receptor alters expression of the alpha 1 subunit and eliminates excitation–contraction coupling. Gregg RG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13961–6

Increase in Ca2+ channel expression by deletions at the amino terminus of the cardiac alpha 1C subunit. Wei X, et al. **Receptors Channels** 1996;4(4):205–15

[Hormone-mediated calcium responses of rat and human hepatocytes. Study of multicellular systems by videomicroscopy] Tordjmann T, et al.
Gastroenterol Clin Biol 1995 Dec;19(12):980–90 (24 ref.) (Eng. Abstr.) **(Fre)**

BLOOD

5-Hydroxytryptamine-induced calcium-channel gating in rainbow trout (Oncorhynchus mykiss) peripheral blood lymphocytes. Ferriere F, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):251–8

Novel components and enzymatic activities of the human erythrocyte plasma membrane calcium pump. Reusch RN, et al. **FEBS Lett** 1997 Aug 4;412(3):592–6

CHEMISTRY

Identification of a second region of the beta-subunit involved in regulation of calcium channel inactivation. Qin N, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1539–45

A carboxy-terminal peptide of the alpha 1-subunit of the dihydropyridine receptor inhibits Ca(2+)-release channels. Slavik KJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1475–81

Structure and modulation of Na+ and Ca2+ channels. Catterall WA. **Ann N Y Acad Sci** 1993 Dec 20;707:1–19 (79 ref.)

Molecular aspects of ion permeation through channels. Imoto K. **Ann N Y Acad Sci** 1993 Dec 20;707:38–50 (28 ref.)

Immunological characterization of proteins associated with the purified omega-conotoxin GVIA receptor. McEnery MW, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:386–91

Structure and function of inositol 1,4,5-trisphosphate receptor. Mikoshiba K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:178–97 (65 ref.)

Molecular diversity of voltage-dependent calcium channel. Mori Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:87–108 (92 ref.)

Identification of ligand-binding sites that form external mouth of ion pore in calcium and sodium channels. Nakayama H, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:349–51

Primary structure and tissue distribution of a novel calcium channel from rabbit brain. Niidome T, et al.
Ann N Y Acad Sci 1993 Dec 20;707:368–72

Primary structure and expression from cDNAs of the ryanodine receptor. Takeshima H. **Ann N Y Acad Sci** 1993 Dec 20;707:165–77

Structure and function of voltage-dependent calcium channels from muscle. Tanabe T, et al.
Ann N Y Acad Sci 1993 Dec 20;707:81–6 (40 ref.)

Molecular cloning and characterization of a putative neural calcium channel alpha1-subunit from squid optic lobe. Kimura T, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):147–54

Conformational changes in plant Ins(1,4,5)P3 receptor on interaction with different myo-inositol trisphosphates and its effect on Ca2+ release from microsomal fraction and liposomes. Dasgupta S, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):355–60

The human cardiac muscle ryanodine receptor-calcium release channel: identification, primary structure and topological analysis. Tunwell RE, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):477–87

L-type calcium channels: binding domains for dihydropyridines and benzothiazepines are located in close proximity to each other. Brauns T, et al. **Biochemistry** 1997 Mar 25;36(12):3625–31

Analysis of membrane protein self-association in lipid systems by fluorescence particle counting: application to the dihydropyridine receptor. Hinterdorfer P, et al.
Biochemistry 1997 Apr 15;36(15):4497–504

Characterization of a 22-residue peptide derived from a designed ion channel. Seth S, et al.
Biochim Biophys Acta 1997 Sep 4;1328(2):177–84

Estimating the number of channels in patch-clamp recordings: application to kinetic analysis of multichannel data from voltage-operated channels. Baumgartner W, et al. **Biophys J** 1997 Mar;72(3):1143–52

Deletion of amino acids 1641–2437 from the foot region of skeletal muscle ryanodine receptor alters the conduction properties of the Ca release channel. Bhat MB, et al.
Biophys J 1997 Sep;73(3):1320–8

Functional calcium release channel formed by the carboxyl-terminal portion of ryanodine receptor. Bhat MB, et al. **Biophys J** 1997 Sep;73(3):1329–36

The S5–S6 linker of repeat I is a critical determinant of L-type Ca2+ channel conductance. Dirksen RT, et al. **Biophys J** 1997 Sep;73(3):1402–9

On the structural basis for ionic selectivity among Na+, K+, and Ca2+ in the voltage-gated sodium channel [see comments] Favre I, et al. **Biophys J** 1996 Dec;71(6):3110–25 . Comment in: Biophys J 1996 Dec;71(6):2916–8.

Role of S4 segments and the leucine heptad motif in the activation of an L-type calcium channel. García J, et al.
Biophys J 1997 Jun;72(6):2515–23

Inhibition of hepatic inositol 1,4,5-trisphosphate receptor function by ethanol and other short chain alcohols. Renard-Rooney DC, et al. **Cell Calcium** 1997 May; 21(5):387–98

Foot structure and foot protein in the cross striated muscle of a pecten. Abe T, et al. **Cell Struct Funct** 1997 Feb; 22(1):21–6

A mammalian capacitative calcium entry channel homologous to Drosophila TRP and TRPL. Philipp S, et al. **EMBO J** 1996 Nov 15;15(22):6166–71

IP3 receptor antagonist heparin uncompetitively inhibits [3H](+)-SKF-10047 binding to sigma receptors. Tsao LI, et al. **Eur J Pharmacol** 1996 Sep 5;311(1):R1–2

Evidence for a role of C-terminal amino acid residues in skeletal muscle Ca2+ release channel (ryanodine receptor) function. Gao L, et al. **FEBS Lett** 1997 Jul 21;412(1):223–6

Novel components and enzymatic activities of the human erythrocyte plasma membrane calcium pump. Reusch RN, et al. **FEBS Lett** 1997 Aug 4;412(3):592–6

Defining the minimal structural requirements for partial agonism at the type I myo-inositol 1,4,5-trisphosphate receptor. Wilcox RA, et al. **FEBS Lett** 1997 Feb 3; 402(2–3):241–5

Structural implications in the function of L-type voltage-dependent calcium channels. Krizanova O.
Gen Physiol Biophys 1996 Apr;15(2):79–87 (35 ref.)

Extracellular interaction of the voltage-dependent Ca2+ channel alpha2delta and alpha1 subunits. Gurnett CA, et al. **J Biol Chem** 1997 Jul 18;272(29):18508–12

Motif III S5 of L-type calcium channels is involved in the dihydropyridine binding site. A combined radioligand binding and electrophysiological study. He M, et al.
J Biol Chem 1997 Jan 31;272(5):2629–33

Two amino acid residues in the IIIS5 segment of L-type calcium channels differentially contribute to 1,4-dihydropyridine sensitivity. Mitterdorfer J, et al.
J Biol Chem 1996 Nov 29;271(48):30330–5

Analysis of the dihydropyridine receptor site of L-type calcium channels by alanine-scanning mutagenesis. Peterson BZ, et al. **J Biol Chem** 1997 Jul 25;272(30):18752–8

Beta subunit heterogeneity in neuronal L-type Ca2+ channels. Pichler M, et al. **J Biol Chem** 1997 May 23; 272(21):13877–82

Molecular structures involved in L-type calcium channel inactivation. Role of the carboxyl-terminal region encoded by exons 40–42 in alpha1C subunit in the kinetics and Ca2+ dependence of inactivation. Soldatov NM, et al.
J Biol Chem 1997 Feb 7;272(6):3560–6

Functional interactions between cytoplasmic domains of the skeletal muscle Ca2+ release channel. Wu Y, et al.
J Biol Chem 1997 Oct 3;272(40):25051–61

Molecular basis of proton block of L-type Ca2+ channels. Chen XH, et al. **J Gen Physiol** 1996 Nov;108(5):363–74

Isolation, cloning, and characterisation of a trp homologue from squid (Loligo forbesi) photoreceptor membranes. Monk PD, et al. **J Neurochem** 1996 Dec;67(6):2227–35

Characterization of a ryanodine receptor in Periplaneta americana. Schmitt M, et al.
J Recept Signal Transduct Res 1997 Jan–May; 17(1–3):185–97

Identification of functionally distinct isoforms of the N-type Ca2+ channel in rat sympathetic ganglia and brain. Lin Z, et al. **Neuron** 1997 Jan;18(1):153–66

Multiple structural elements in voltage-dependent Ca2+ channels support their inhibition by G proteins. Zhang JF, et al. **Neuron** 1996 Nov;17(5):991–1003

Identification and functional characterization of a calcium channel gamma subunit. Eberst R, et al. **Pflugers Arch** 1997 Mar;433(5):633–7

Ryanodine receptor Ca2+ release channels: does diversity in form equal diversity in function? Sutko JL, et al.
Physiol Rev 1996 Oct;76(4):1027–71 (396 ref.)

Proof for a nonproteinaceous calcium-selective channel in Escherichia coli by total synthesis from (R)-3-hydroxybutanoic acid and inorganic polyphosphate. Das S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):9075–9

Interaction of the synprint site of N-type Ca2+ channels with the C2B domain of synaptotagmin I. Sheng ZH, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5405–10

A Xenopus oocyte beta subunit: evidence for a role in the assembly/expression of voltage-gated calcium channels that is separate from its role as a regulatory subunit. Tareilus E, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1703–8

SPRY domains in ryanodine receptors (Ca(2+)-release channels). Ponting C, et al. **Trends Biochem Sci** 1997 Jun; 22(6):193–4

CLASSIFICATION

Towards a unified nomenclature describing voltage-gated calcium channel genes. Lory P, et al. **Hum Genet** 1997 Aug;100(2):149–50

Review: Ca2+ channel sub-types in peripheral efferent autonomic nerves. Lundy PM, et al.
J Auton Pharmacol 1996 Oct;16(5):229–41 (146 ref.)

Nonuniform distribution of Ca2+ channel subtypes on presynaptic terminals of excitatory synapses in hippocampal cultures. Reid CA, et al. **J Neurosci** 1997 Apr 15; 17(8):2738–45

DEFICIENCY

Recovery of Ca2+ current, charge movements, and Ca2+ transients in myotubes deficient in dihydropyridine receptor beta 1 subunit transfected with beta 1 cDNA. Beurg M, et al. **Biophys J** 1997 Aug;73(2):807–18

Reduced Ca2+ current, charge movement, and absence of Ca2+ transients in skeletal muscle deficient in dihydropyridine receptor beta 1 subunit. Strube C, et al.
Biophys J 1996 Nov;71(5):2531–43

T-type Ca2+ current properties are not modified by Ca2+ channel beta subunit depletion in nodosus ganglion neurons. Lambert RC, et al. **J Neurosci** 1997 Sep 1;17(17):6621–8

Functional and morphological features of skeletal muscle from mutant mice lacking both type 1 and type 3 ryanodine receptors. Ikemoto T, et al. **J Physiol (Lond)** 1997 Jun 1; 501 (Pt 2):305–12

T cells deficient in inositol 1,4,5-trisphosphate receptor are resistant to apoptosis. Jayaraman T, et al. **Mol Cell Biol** 1997 Jun;17(6):3005–12

DRUG EFFECTS

Effects of glucagon-like peptide-1 on membrane potential and ion channels of mouse pancreatic beta-cells. Britsch S, et al. **Acta Physiol Scand** 1996 Jul;157(3):353

Effect of bovine serum albumin on the calcium release channel of sarcoplasmic reticulum from rabbit skeletal muscle. Catinot MP, et al. **Acta Physiol Scand** 1997 Jul; 160(3):199–205

Metabolic inhibitors affect the conductance of low voltage-activated calcium channels in brain capillary endothelial cells. Delpiano MA. **Adv Exp Med Biol** 1996; 410:109–13

Transmembrane currents in capillary endothelial cells are modulated by external Mg2+ ions. Delpiano MA, et al.
Adv Exp Med Biol 1996;410:115–8

Effect of acetylcholine on intracellular calcium of carotid body cells of adult cats. Shirahata M, et al.
Adv Exp Med Biol 1996;410:257–60

The possible role of voltage-operated calcium channels in the enhancement of excitatory amino acid toxicity following chronic ethanol exposure in vitro. Ruhe CA, et al. **Alcohol Alcohol Suppl** 1994;2:217–21

Ethanol and cocaine cause additive inhibitory effects on the calcium transients and contraction in single cardiomyocytes. Nicolás JM, et al.
Alcohol Clin Exp Res 1996 Sep;20(6):1077–82

Effects of dihydropyridines on the components of the ethanol withdrawal syndrome: possible evidence for involvement of potassium, as well as calcium? Watson WP, et al.
Alcohol Clin Exp Res 1997 May;21(3):409–16

Pharmacologic and therapeutic differences among calcium channel antagonists: profile of mibefradil, a new calcium antagonist. Triggle DJ. **Am J Cardiol** 1996 Nov 7; 78(9A):7–12 (41 ref.)

Modal gating in neuronal and skeletal muscle ryanodine-sensitive Ca2+ release channels. Armisén R, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C144–53

Calphostin C, a widely used protein kinase C inhibitor, directly and potently blocks L-type Ca channels. Hartzell HC, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1293–9

TXA2 agonists inhibit high-voltage-activated calcium channels in rat hippocampal CA1 neurons. Hsu KS, et al.
Am J Physiol 1996 Oct;271(4 Pt 1):C1269–77

Modulation of skeletal muscle Ca2(+)-release channel activity by sphingosine. Needleman DH, et al.
Am J Physiol 1997 May;272(5 Pt 1):C1465–74

Ethanol enhances caffeine-induced Ca2+-release channel activation in skeletal muscle sarcoplasmic reticulum. Oba T, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C622–7

Bastadins relate ryanodine-sensitive and -insensitive Ca2+ efflux pathways in skeletal SR and BC3H1 cells. Pessah IN, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C601–14

A carboxy-terminal peptide of the alpha 1-subunit of the dihydropyridine receptor inhibits Ca(2+)-release channels. Slavik KJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1475–81

Differential effects of etomidate, propofol, and midazolam on calcium and potassium channel currents in canine myocardial cells. Buljubasic N, et al. **Anesthesiology** 1996 Nov;85(5):1092–9

Volatile anesthetics reduce low-voltage-activated calcium currents in a thyroid C-cell line. McDowell TS, et al.
Anesthesiology 1996 Nov;85(5):1167–75

Influence of phorbol esters on contractile force, action potential and calcium current of isolated guinea-pig heart tissues. Siems T, et al. **Basic Res Cardiol** 1995 Nov–Dec; 90(6):459–66

Inhibition of cloned human L-type cardiac calcium channels by 2,3-butanedione monoxime does not require PKA-dependent phosphorylation sites. Eisfeld J, et al.
Biochem Biophys Res Commun 1997 Jan 23;230(3):489–92

Regulation of intracellular calcium release channel function by arachidonic acid and leukotriene B4. Striggow F, et

al. **Biochem Biophys Res Commun** 1997 Aug 18; 237(2):413–8

Ca2+ differentially regulates the ligand–affinity states of type 1 and type 3 inositol 1,4,5–trisphosphate receptors. Yoneshima H, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):591–6

Alteration of P–type calcium channel gating by the spider toxin omega–Aga–IVA. McDonough SI, et al. **Biophys J** 1997 May;72(5):2117–28

Modulation of calcium channels in human erythroblasts by erythropoietin. Cheung JY, et al. **Blood** 1997 Jan 1; 89(1):92–100

Autoantibodies against ADP/ATP carrier from patients with dilated cardiomyopathy increase activity of voltage–dependent Ca channels in isolated cardiac myocytes. Liao YH, et al. **Blood Press Suppl** 1996;3:41–4

I.v. anaesthetic agents inhibit dihydropyridine binding to L–type voltage–sensitive Ca2+ channels in rat cerebrocortical membranes [see comments] Hirota K, et al. **Br J Anaesth** 1996 Aug;77(2):248–53. Comment in: Br J Anaesth 1997 Apr;78(4):481–2.

I.v. anaesthetics and binding to calcium channels [letter; comment] Wilkinson PR. **Br J Anaesth** 1997 Apr; 78(4):481–2. Comment on: Br J Anaesth 1996 Aug;77(2):248–53.

A comparative study of the effects of three guanylyl cyclase inhibitors on the L–type Ca2+ and muscarinic K+ currents in frog cardiac myocytes. Abi–Gerges N, et al. **Br J Pharmacol** 1997 Aug;121(7):1369–77

Extra– and intracellular action of quaternary devapamil on muscle L–type Ca(2+)–channels. Berjukov S, et al. **Br J Pharmacol** 1996 Nov;119(6):1197–202

Capsazepine block of voltage–activated calcium channels in adult rat dorsal root ganglion neurones in culture. Docherty RJ, et al. **Br J Pharmacol** 1997 Aug;121(7):1461–7

Evidence for mediation by endothelium–derived hyperpolarizing factor of relaxation to bradykinin in the bovine isolated coronary artery independently of voltage–operated Ca2+ channels. Drummond GR, et al. **Br J Pharmacol** 1996 Mar;117(6):1035–40

Inhibition of a store–operated Ca2+ entry pathway in human endothelial cells by the isoquinoline derivative LOE 908. Encabo A, et al. **Br J Pharmacol** 1996 Oct;119(4):702–6

Voltage and pH dependent block of cloned N–type Ca2+ channels by amlodipine. Furukawa T, et al. **Br J Pharmacol** 1997 Jul;121(6):1136–40

Inhibition of L–type calcium current by propafenone in single myocytes isolated from the rabbit atrioventricular node. Hancox JC, et al. **Br J Pharmacol** 1997 May;121(1):7–14

Inhibitory effect of nitrovasodilators and cyclic GMP on ET–1–activated Ca(2+)–permeable nonselective cation channel in rat aortic smooth muscle cells. Minowa T, et al. **Br J Pharmacol** 1997 Apr;120(8):1536–44

Long Ca2+ channel opening induced by large depolarization and Bay K 8644 in smooth muscle cells isolated from guinea–pig detrusor. Nakayama S, et al. **Br J Pharmacol** 1996 Oct;119(4):716–20

Blockade of N–type Ca2+ current by cilnidipine (FRC–8653) in acutely dissociated rat sympathetic neurones. Uneyama H, et al. **Br J Pharmacol** 1997 Sep; 122(1):37–42

Some evidence against the involvement of arachidonic acid in muscarinic suppression of voltage–gated calcium channel current in guinea–pig ileal smooth muscle cells. Unno T, et al. **Br J Pharmacol** 1996 Sep;119(2):213–22

A novel antagonist, No. 7943, of the Na+/Ca2+ exchange current in guinea–pig cardiac ventricular cells. Watano T, et al. **Br J Pharmacol** 1996 Oct;119(3):555–63

Propofol regulation of calcium entry pathways in cultured A10 and rat aortic smooth muscle cells. Xuan YT, et al. **Br J Pharmacol** 1996 Jan;117(1):5–12

Effects of dopamine on L–type Ca2+ current in single atrial and ventricular myocytes of the rat. Zhao H, et al. **Br J Pharmacol** 1997 Aug;121(7):1247–54

Serotonin induces inward potassium and calcium currents in rat cortical astrocytes. Jalonen TO, et al. **Brain Res** 1997 May 30;758(1–2):69–82

mu–Opioid receptor activation decreases N–type Ca2+ current in magnocellular neurons of the rat basal forebrain. Soldo BL, et al. **Brain Res** 1997 May 30;758(1–2):118–26

A novel type of calcium channel sensitive to omega–agatoxin–TK in cultured rat cerebral cortical neurons. Teramoto T, et al. **Brain Res** 1997 May 9; 756(1–2):225–30

Cholecystokinin octapeptide reverses the kappa–opioid–receptor–mediated depression of calcium current in rat dorsal root ganglion neurons. Xu T, et al. **Brain Res** 1996 Aug 19;730(1–2):207–11

Use of neurotoxins to study Ca2+ channel functions. Cassola AC, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1759–63 (17 ref.)

Effects of endothelin 1 on calcium and sodium currents in isolated human cardiac myocytes. Cheng TH, et al. **Can J Physiol Pharmacol** 1995 Dec;73(12):1774–83

Effects of cGMP on L–type calcium current of adult and newborn rabbit ventricular cells. Kumar R, et al. **Cardiovasc Res** 1997 Mar;33(3):573–82

Lead reduces depolarization–induced calcium entry in cultured DRG neurons without crossing the cell membrane: fura–2 measurements. Domann R, et al. **Cell Mol Neurobiol** 1997 Jun;17(3):305–14

Separate activation of intracellular Ca2+ release, voltage–dependent and receptor–operated Ca2+ channels in the rat aorta. Huang Y, et al. **Chin J Physiol** 1996; 39(1):1–8

G(o)2 and Gi3 proteins mediate the action of somatostatin on membrane Ca2+ and K+ currents in ovine pituitary somatotrophs. Chen C. **Clin Exp Pharmacol Physiol** 1997 Aug;24(8):639–45

Selectivity of omega–conotoxin GVIA for n–type calcium channels in rat isolated small mesenteric arteries. Whorlow SL, et al. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):16–21

Insulin and insulin–like growth factor–I inhibit the L–type calcium channel current in rat pinealocytes. Chik CL, et al. **Endocrinology** 1997 May;138(5):2033–42

Pituitary adenylate cyclase–activating polypeptide potentiation of Ca2+ entry via protein kinase C and A pathways in melanotrophs of the pituitary pars intermedia of rats. Tanaka K, et al. **Endocrinology** 1997 Oct; 138(10):4086–95

Lamotrigine reduces voltage–gated sodium currents in rat central neurons in culture. Zona C, et al. **Epilepsia** 1997 May;38(5):522–5

Pharmacological differences between calcium antagonists. Opie LH. **Eur Heart J** 1997 Jan;18 Suppl A:A71–9 (53 ref.)

The effects of ifenprodil and eliprodil on voltage–dependent Ca2+ channels and in gerbil global cerebral ischaemia. Bath CP, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1–3):103–12

R– and L–type Ca2+ channels are insensitive to eliprodil in rat cultured cerebellar granule neurons. Biton B, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):277–81

Tolbutamide blocks Ca(2+)– and voltage–dependent K+ currents of hippocampal Ca1 neurons. Erdemli G, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):37–47

Different effects of baclofen and GTP gamma S on voltage–activated Ca2+ currents in rat hippocampal neurons in vitro. Frank C, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):87–92

Blocking effects of otilonium on Ca2+ channels and secretion in rat chromaffin cells. Gandia L, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):199–205

Stereoselectivity of Ca2+ channel block by dihydropyridines: no modulation by the voltage protocol. Handrock R, et al. **Eur J Pharmacol** 1996 Aug 15; 309(3):317–21

Ca2+ channel activation by CGP 48506, a new positive inotropic benzodiazocine derivative. Herzig S. **Eur J Pharmacol** 1996 Jan 4;295(1):113–7

Inhibition by antipsychotic drugs of L–type Ca2+ channel current in PC12 cells. Ito K, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):143–50

Dual effects of endothelin–1 on the L–type Ca2+ current in ventricular cardiomyocytes. Kelso E, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):351–5

A novel benzothiazine Ca2+ channel antagonist, semotiadil, inhibits cardiac L–type Ca2+ currents. Koidl B, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):243–7

The use of invertebrate peptide toxins to establish Ca2+ channel identity of CA3–CA1 neurotransmission in rat hippocampal slices. Nooney JM, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):41–50

Subcellular localization of ryanodine receptors in rat brain. Padua RA, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):185–9

Effects of neuropeptide FF on intracellular Ca2+ in mouse spinal ganglion neurons. Roumy M, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):291–5

Effects of ATP on specific [3H](+)–isradipine binding in rat ventricular cardiomyocytes. Stokke M, et al. **Eur J Pharmacol** 1996 May 6;303(1–2):115–22

Distinct effects of omega–toxins and various groups of Ca(2+)–entry inhibitors on nicotinic acetylcholine receptor and Ca2+ channels of chromaffin cells. Villarroya M, et al. **Eur J Pharmacol** 1997 Feb 12;320(2–3):249–57

NH4Cl–induced contraction of porcine coronary artery involves activation of dihydropyridine–sensitive Ca2+ entry. Wakabayashi I, et al. **Eur J Pharmacol** 1996 Mar 28;299(1–3):139–47

Ionic mechanisms of tetrandrine in cultured rat aortic smooth muscle cells. Wu SN, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):233–8

Effects of T–type, L–type, N–type, P–type, and Q–type calcium channel blockers on stimulus–induced pre– and postsynaptic calcium fluxes in rat hippocampal slices. Igelmund P, et al. **Exp Brain Res** 1996 Apr;109(1):22–32

Modulatory effect of extracellular Mg2+ ions on K+ and Ca2+ currents of capillary endothelial cells from rat brain. Delpiano MA, et al. **FEBS Lett** 1996 Oct 7;394(3):335–9

Low–conductance high selective inositol (1,4,5)–trisphosphate activated Ca2+ channels in plasma membrane of A431 carcinoma cells. Kiselyov KI, et al. **FEBS Lett** 1997 May 5;407(3):309–12

Activation of endogenous c–Src or a related tyrosine kinase by intracellular (pY)EEI peptide increases voltage–operated calcium channel currents in rabbit ear artery cells. Wijetunge S, et al. **FEBS Lett** 1996 Dec 9; 399(1–2):63–6

The effects of piracetam and its novel peptide analogue GVS–111 on neuronal voltage–gated calcium and potassium channels. Solntseva EI, et al. **Gen Pharmacol** 1997 Jul;29(1):85–9

Inhibition of voltage–dependent Ca2+ channels of porcine tracheal smooth muscle by the novel Ca2+ channel antagonist RWJ–22108. Yamakage M, et al. **Gen Pharmacol** 1997 May;28(5):689–94

Differential effects of lipid–soluble toxins on sodium channels and L–type calcium channels in frog ventricular cells. Furue T, et al. **Hiroshima J Med Sci** 1997 Mar;46(1):43–50

Vesicular monoamine transport inhibitors. Novel action at calcium channels to prevent catecholamine secretion. Mahata M, et al. **Hypertension** 1996 Sep;28(3):414–20

Regulation of cholinomimetic action of pyrantel pamoate by calcium channels in Setaria cervi. Ganguly B, et al. **Indian J Physiol Pharmacol** 1996 Jul;40(3):245–8

Relation between effects of a set of anti–allergic drugs on calcium pathways and membrane structure in Fc epsilon RI activated signal transduction. Fischer MJ, et al. **Inflamm Res** 1996 Nov;45(11):564–73

Calcium antagonists: their role in neuroprotection. Hunter AJ. **Int Rev Neurobiol** 1997;40:95–108 (62 ref.)

N–type calcium channel blockers from a marine bacterium, Cytophaga sp. SANK 71996. Morishita T, et al. **J Antibiot (Tokyo)** 1997 Jun;50(6):457–68

Lactate inhibits Ca(2+) –activated Ca(2+)–channel activity from skeletal muscle sarcoplasmic reticulum. Favero TG, et al. **J Appl Physiol** 1997 Feb;82(2):447–52

L–type Ca2+ channel and Na+/Ca2+ exchange inhibitors reduce Ca2+ accumulation in reperfused skeletal muscle. Welsh DG, et al. **J Appl Physiol** 1996 Apr;80(4):1263–9

Multiple classes of sulfhydryls modulate the skeletal muscle Ca2+ release channel. Aghdasi B, et al. **J Biol Chem** 1997 Feb 7;272(6):3739–48

Transfer of high sensitivity for benzothiazepines from L–type to class A (BI) calcium channels. Hering S, et al. **J Biol Chem** 1996 Oct 4;271(40):24471–5

Endothelin–1 inhibits L–type Ca2+ current enhanced by isoprenaline in rat atrial myocytes. Delpech N, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):136–43

Pharmacological studies on a new antihypertensive agent, S–2150, a benzothiazepine derivative: 2. Hypotensive effects in normotensive and hypertensive rats. Kawakami M, et al. **J Cardiovasc Pharmacol** 1996 Nov;28(5):695–702

Bay K 8644 reveals two components of L–type Ca2+ channel current in clonal rat pituitary cells. Fass DM, et al. **J Gen Physiol** 1996 Jul;108(1):1–11

Block of N–type calcium channels in chick sensory neurons by external sodium. Polo–Parada L, et al. **J Gen Physiol** 1997 Jun;109(6):693–702

Calcium current activated by depletion of calcium stores in Xenopus oocytes. Yao Y, et al. **J Gen Physiol** 1997 Jun; 109(6):703–15

Mechanisms of amiodarone–induced inhibition of Ca2+ current in isolated neonatal rabbit ventricular myocytes. Chen F, et al. **J Investig Med** 1996 Dec;44(9):583–9

Effects of low density lipoprotein on cytosolic [Ca++] in cultured rat mesangial cells. Pahl MV, et al. **J Investig Med** 1996 Dec;44(9):556–60

Magnesium inhibition of ryanodine–receptor calcium channels: evidence for two independent mechanisms. Laver DR, et al. **J Membr Biol** 1997 Apr 1;156(3):213–29

Alkaline pH and internal calcium increase Na+ and K+ effluxes in LK sheep red blood cells in Cl––free solutions. Ortiz–Carranza O, et al. **J Membr Biol** 1997 Apr 1; 156(3):287–95

Synergistic induction of HL60 cell differentiation by ketoconazole and 1–desoxy analogues of vitamin D3. Wang X, et al. **J Natl Cancer Inst** 1997 Aug 20;89(16):1199–206

Ca2+ channel antagonist U–92032 inhibits both T–type Ca2+ channels and Na+ channels in hippocampal CA1 pyramidal neurons. Avery RB, et al. **J Neurophysiol** 1997 Feb;77(2):1023–8

Order of application determines the interaction between phorbol esters and GTP–gamma–S in dorsal raphe neurons: evidence that the effect of 5–HT is modified upstream of the G protein Ca channel interaction. Chen Y, et al. **J Neurophysiol** 1997 May;77(5):2697–703

Dihydropyridine–sensitive, voltage–gated Ca2+ channels contribute to the resting intracellular Ca2+ concentration of hippocampal CA1 pyramidal neurons. Magee JC, et al. **J Neurophysiol** 1996 Nov;76(5):3460–70

Selective disruption by protein kinases of G–protein–mediated Ca2+ channel modulation. Shapiro MS, et al. **J Neurophysiol** 1996 Jul;76(1):311–20

Muscarine inhibits omega–conotoxin–sensitive calcium channels in a voltage– and time–dependent mode in the human neuroblastoma cell line SH–SY5Y. Toselli M, et al. **J Neurophysiol** 1995 Oct;74(4):1730–41

Induction of LTD in the dentate gyrus in vitro is NMDA receptor independent, but dependent on Ca2+ influx via low–voltage–activated Ca2+ channels and release of Ca2+ from intracellular stores. Wang Y, et al. **J Neurophysiol** 1997 Feb;77(2):812–25

Ca2+ currents in central insect neurons: electrophysiological and pharmacological properties. Wicher D, et al. **J Neurophysiol** 1997 Jan;77(1):186–99

Three distinct G protein pathways mediate inhibition of neuronal calcium current by bradykinin. Wilk–Blaszczak MA, et al. **J Neurophysiol** 1996 Nov;76(5):3559–62

D2 dopamine receptors reduce N–type Ca2+ currents in rat neostriatal cholinergic interneurons through a membrane–delimited, protein–kinase–C–insensitive pathway. Yan Z, et al. **J Neurophysiol** 1997 Feb; 77(2):1003–15

Ca2+– and voltage–dependent inactivation of Ca2+ channels in nerve terminals of the neurohypophysis. Branchaw JL, et al. **J Neurosci** 1997 Aug 1;17(15):5772–81

Metabotropic glutamate receptor activation modulates kainate and serotonin calcium response in astrocytes. Haak LL, et al. **J Neurosci** 1997 Mar 1;17(5):1825–37

D1 receptor activation enhances evoked discharge in neostriatal medium spiny neurons by modulating an L-type Ca2+ conductance. Hernández-López S, et al. **J Neurosci** 1997 May 1;17(9):3334–42

cAMP-dependent enhancement of dihydropyridine-sensitive calcium channel availability in hippocampal neurons. Kavalali ET, et al. **J Neurosci** 1997 Jul 15;17(14):5334–48

Modulation of voltage-gated calcium channels by orphanin FQ in freshly dissociated hippocampal neurons. Knoflach F, et al. **J Neurosci** 1996 Nov 1;16(21):6657–64

Basic fibroblast growth factor increases functional L-type Ca2+ channels in fetal rat hippocampal neurons: implications for neurite morphogenesis in vitro. Shitaka Y, et al. **J Neurosci** 1996 Oct 15;16(20):6476–89

Preferential interaction of omega-conotoxins with inactivated N-type Ca2+ channels. Stocker JW, et al. **J Neurosci** 1997 May 1;17(9):3002–13

Modulation of high voltage-activated calcium channels by somatostatin in acutely isolated rat amygdaloid neurons. Viana F, et al. **J Neurosci** 1996 Oct 1;16(19):6000–11

BAPTA-AM and ethanol protect cerebellar granule neurons from the destructive effect of the weaver gene. Liesi P, et al. **J Neurosci Res** 1997 Jun 15;48(6):571–9

Pharmacological characterisation of voltage-sensitive calcium channels and neurotransmitter release from mouse cerebellar granule cells in culture. Varming T, et al. **J Neurosci Res** 1997 Apr 1;48(1):43–52

Effects of prolonged ethinyl estradiol treatment on calcium channel binding and in vivo calcium-mediated hemodynamic responses in ovariectomized rats. Bowling N, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):218–25

Effects of the neuroprotective agent riluzole on the high voltage-activated calcium channels of rat dorsal root ganglion neurons. Huang CS, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1280–90

Biphasic effects of intrapipette cyclic guanosine monophosphate on L-type calcium current and contraction of guinea pig ventricular myocytes. Shirayama T, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1274–81

Protein kinase A regulates regulates inhibition of N- and P/Q-type calcium channels by ethanol in PC12 cells. Solem M, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1487–95

Differential oxygen sensitivity of calcium channels in rabbit smooth muscle cells of conduit and resistance pulmonary arteries [published erratum appears in J Physiol (Lond) 1996 Jun 15;493(Pt 3):923] Franco-Obregón A, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):511–8

G protein-dependent inhibition of L-type Ca2+ currents by acetylcholine in mouse pancreatic B-cells. Gilon P, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):65–76

High-threshold Ca2+ currents in rat hippocampal interneurones and their selective inhibition by activation of GABA(B) receptors. Lambert NA, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):115–27

Effect on the indo-1 transient of applying Ca2+ channel blocker for a single beat in voltage-clamped guinea-pig cardiac myocytes. Levi AJ, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):653–73

Binding constants determined from Ca2+ current responses to rapid applications and washouts of nifedipine in frog cardiac myocytes. Méry PF, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):105–20

Halothane and isoflurane preferentially depress a slowly inactivating component of Ca2+ channel current in guinea-pig myocytes. Pancrazio JJ. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):91–103

Basal responses of the L-type Ca2+ and hyperpolarization-activated currents to autonomic agonists in the rabbit sino-atrial node. Zaza A, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):347–55

Neuropeptide Y and calcitonin gene-related peptide modulate voltage-gated Ca2+ channels in mature female rat paracervical ganglion neurons. Cohen DP, et al. **J Soc Gynecol Investig** 1996 Nov-Dec;3(6):342–9

Regulation by purinergic agonists of zinc uptake by rat submandibular glands. Dehaye JP. **J Trace Elem Med Biol** 1995 Jul;9(2):94–101

Molecular pharmacology of voltage-dependent calcium channels. Mori Y, et al. **Jpn J Pharmacol** 1996 Oct; 72(2):83–109 (262 ref.)

Picrotoxin potentiates contraction while inhibiting Ca current but increasing birefringence signal in frog skeletal muscle fibers. Jacquemond V, et al. **Jpn J Physiol** 1996 Feb; 46(1):99–104

GLP-1 (7-36) amide activates L-type Ca2+ channels of pancreatic B-cells through c-AMP signaling. Suga S, et al. **Jpn J Physiol** 1997;47 Suppl 1:S13–4

Muscarinic regulation of the L-type calcium current in isolated cardiac myocytes. Méry PF, et al. **Life Sci** 1997; 60(13-14):1113–20 (111 ref.)

Effects of dopexamine hydrochloride on calcium channels in isolated guinea pig ventricular myocytes. Dun W, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul-Aug; 18(6):353–7

Effects of 17 beta-estradiol on early afterdepolarizations and L-type Ca2+ currents induced by endothelin-1 in guinea pig papillary muscles and ventricular myocytes. Liu B, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan-Feb; 19(1):19–25

Regulation of endogenous Ca2+ channels by cyclic AMP and cyclic GMP-dependent protein kinases in Pleurodeles oocytes. Van Coppenolle F, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):155–61

The action of carboxyl modifying reagents on the ryanodine receptor/Ca2+ release channel of skeletal muscle sarcoplasmic reticulum. Feng W, et al. **Mol Membr Biol** 1996 Apr-Jun;13(2):85–93

Inhibition of recombinant Ca2+ channels by benzothiazepines and phenylalkylamines: class-specific pharmacology and underlying molecular determinants. Cai D, et al. **Mol Pharmacol** 1997 May;51(5):872–81

Direct inhibition of 5-hydroxytryptamine3 receptors by antagonists of L-type Ca2+ channels. Hargreaves AC, et al. **Mol Pharmacol** 1996 Nov;50(5):1284–94

Activation of the skeletal muscle ryanodine receptor by suramin and suramin analogs. Hohenegger M, et al. **Mol Pharmacol** 1996 Dec;50(6):1443–53

1,5-benzothiazepine binding domain is located on the extracellular side of the cardiac L-type Ca2+ channel. Kurokawa J, et al. **Mol Pharmacol** 1997 Feb;51(2):262–8

Purification of a new dimeric protein from Cliona vastifica sponge, which specifically blocks a non-L-type calcium channel in mouse duodenal myocytes. Morel JL, et al. **Mol Pharmacol** 1997 Jun;51(6):1042–52

Specificity of autoantibodies react with omega-conotoxin MVIIC-sensitive calcium channel in Lambert-Eaton myasthenic syndrome. Suenaga A, et al. **Muscle Nerve** 1996 Sep;19(9):1166–8

Involvement of both L- and N-type voltage-dependent Ca2+ channels in KCl- and veratridine-evoked transmitter release from non-adrenergic, non-cholinergic nerves in the rabbit iris sphincter muscle. Kageyama M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):638–44

Kinetics and state-dependent effects of verapamil on cardiac L-type calcium channels. Nawrath H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):79–86

Neurochemical activity of noradrenergic neurons and pituitary-adrenal response after naloxone-induced withdrawal: the role of calcium channels. Vargas ML, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):501–6

Ruthenium red as a tool to study calcium channels, neuronal death and the function of neural pathways. Tapia R, et al. **Neurochem Int** 1997 Feb;30(2):137–47 (59 ref.)

IGF-1 modulates N and L calcium channels in a PI 3-kinase-dependent manner. Blair LA, et al. **Neuron** 1997 Aug;19(2):421–9

Pharmacologically distinct presynaptic calcium channels in cerebellar excitatory and inhibitory synapses. Doroshenko PA, et al. **Neuropharmacology** 1997 Jun;36(6):865–72

Adenosine A3 receptors potentiate hippocampal calcium current by a PKA-dependent/PKC-independent pathway. Fleming KM, et al. **Neuropharmacology** 1997 Mar; 36(3):353–62

Identification of pore-forming subunit of P-type calcium channels: an antisense study on rat cerebellar Purkinje cells in culture. Gillard SE, et al. **Neuropharmacology** 1997 Mar; 36(3):405–9

Electrophysiological properties of the human N-type Ca2+ channel: I. Channel gating in Ca2+, Ba2+ and Sr2+ containing solutions. McNaughton NC, et al. **Neuropharmacology** 1997 Jul;36(7):895–915

Contrasting biophysical and pharmacological properties of T-type and R-type calcium channels. Randall AD, et al. **Neuropharmacology** 1997 Jul;36(7):879–93

Omega-conotoxin-MVIID blocks an omega-conotoxin-GVIA-sensitive, high-threshold Ca2+ current in fish retinal ganglion cells. Tabata T, et al. **Neuropharmacology** 1996 May;35(5):633–6

ALS IgGs suppress [Ca2+]i rise through P/Q-type calcium channels in central neurones in culture. Andjus PR, et al. **Neuroreport** 1996 Aug 12;7(12):1914–6

Opioid receptor independent inhibition of Ca2+ and K+ currents in NG108-15 cells by the kappa opioid receptor agonist U50488H. Carpenter E, et al. **Neuroreport** 1996 Jul 29;7(11):1809–12

Effect of dexamethasone on voltage-gated Ca2+ channels and cytosolic Ca2+ in rat chromaffin cells. Fuller L, et al. **Neuroreport** 1997 Mar 24;8(5):1169–72

Dopamine facilitates striatal EPSPs through an L-type Ca2+ conductance. Galarraga E, et al. **Neuroreport** 1997 Jul 7; 8(9-10):2183–6

A calcium channel reversibly blocked by omega-conotoxin GVIA lacking the class D alpha 1 subunit. Mermelstein PG, et al. **Neuroreport** 1997 Jan 20;8(2):485–9

Ryanodine receptors from rabbit skeletal muscle are reversibly activated by rapamycin. Ahern GP, et al. **Neurosci Lett** 1997 Apr 4;225(2):81–4

Nicardipine enantiomers inhibit calcium and outward currents in rat pars intermedia cells. Kocmur-Bobanović L, et al. **Neurosci Lett** 1996 Mar 29;207(2):121–4

Chronic activation of protein kinase C by phorbol ester reduces calcium channel expression in chick sympathetic neurons. Przywara DA, et al. **Neurosci Lett** 1997 Jun 27; 229(2):138–40

Dexamethasone rapidly increases calcium channel subunit messenger RNA expression and high voltage-activated calcium current in clonal pituitary cells. Fomina AF, et al. **Neuroscience** 1996 Jun;72(3):857–62

Dependence of photoreceptor glutamate release on a dihydropyridine-sensitive calcium channel. Schmitz Y, et al. **Neuroscience** 1997 Jun;78(4):1209–16

Voltage-activated calcium channel currents of rat DRG neurons are reduced by mercuric chloride (HgCl2) and methylmercury (CH3HgCl). Leonhardt R, et al. **Neurotoxicology** 1996 Spring;17(1):85–92

Long-term effects of developmental exposure to 2,2',3,5',6-pentachlorobiphenyl (PCB 95) on locomotor activity, spatial learning and memory and brain ryanodine binding. Schantz SL, et al. **Neurotoxicology** 1997; 18(2):457–67

Ortho-substituted 2,2',3,5',6-pentachlorobiphenyl (PCB 95) alters rat hippocampal ryanodine receptors and neuroplasticity in vitro: evidence for altered hippocampal function. Wong PW, et al. **Neurotoxicology** 1997; 18(2):443–56

Two types of omega-agatoxin IVA-sensitive Ca2+ channels are coupled to adrenaline and noradrenaline release in bovine adrenal chromaffin cells. Baltazar G, et al. **Pflugers Arch** 1997 Sep;434(5):592–8

GABAB-mediated upregulation of the high-voltage-activated Ca2+ channels in rat dorsal root ganglia. Fujikawa S, et al. **Pflugers Arch** 1997 May; 434(1):84–90

Neomycin inhibits K+-induced force and Ca2+ channel current in rat arterial smooth muscle. Langton PD, et al. **Pflugers Arch** 1996 Nov-Dec;433(1-2):188–93

Sodium nitroprusside and cGMP decrease Ca2+ channel availability in basilar artery smooth muscle cells. Tewari K, et al. **Pflugers Arch** 1997 Jan;433(3):304–11

Reversible inhibition of IK, IAHP, Ih and ICa currents by internally applied gluconate in rat hippocampal pyramidal neurones. Velumian AA, et al. **Pflugers Arch** 1997 Jan; 433(3):343–50

The pharmacology of ryanodine and related compounds. Sutko JL, et al. **Pharmacol Rev** 1997 Mar;49(1):53–98 (196 ref.)

Actions of neurotransmitters and other messengers on Ca2+ channels and K+ channels in smooth muscle cells. Beech DJ. **Pharmacol Ther** 1997;73(2):91–119 (353 ref.)

Inhibition by 5-N-(4-chlorobenzyl)-2',4'-dimethylbenzamil of Na+/Ca2+ exchange and L-type Ca2+ channels in isolated cardiomyocytes. Sharikabad MN, et al. **Pharmacol Toxicol** 1997 Feb;80(2):57–61

Structure-activity relationship of xanthines and skeletal muscle ryanodine receptor/Ca2+ release channel. Liu W, et al. **Pharmacology** 1997 Mar;54(3):135–43

Endothelin-1 significantly increased number of specific high-affinity 1,4-dihydropyridine (DHP) binding sites photolabelled on vascular smooth muscle cells with (-)-[3H]-azidopine. Dřímal J, et al. **Physiol Res** 1996; 45(1):51–8

Activation of the cGMP-dependent protein kinase mimics the stimulatory effect of nitric oxide and cGMP on calcium-gated potassium channels. Hampl V, et al. **Physiol Res** 1995;44(1):39–44

Calcium signaling in prostate cancer cells: evidence for multiple receptors and enhanced sensitivity to bombesin/GRP. Wasilenko WJ, et al. **Prostate** 1997 Feb 15;30(3):167–73

Modulation by dihydropyridines and protein kinases of the recombinant cardiac L-type Ca channel with multiple unitary current amplitudes. Hirano Y, et al. **Receptors Channels** 1996;4(2):93–104

Developmental changes in beta-adrenergic and muscarinic modulations of Ca2+ currents in fetal and neonatal ventricular cardiomyocytes of the rat. Masuda H, et al. **Reprod Fertil Dev** 1996;8(1):129–35

Role of L-type calcium channels on halothane-induced myocardial depression in cultured rat ventricular myocytes. Kanaya N, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan;91(1):85–96

Inhibition of membrane L-type calcium channel activity and intracellular calcium concentration by 24R, 25-dihydroxyvitamin D3 in vascular smooth muscle. Shan JJ, et al. **Steroids** 1996 Nov;61(11):657–63

Selective N-type calcium channel antagonist omega conotoxin MVIIA is neuroprotective against hypoxic neurodegeneration in organotypic hippocampal-slice cultures. Pringle AK, et al. **Stroke** 1996 Nov;27(11):2124–30

Enhancement by dibutyryl cyclic AMP of voltage-dependent Ca2+ and K+ currents in the guinea-pig vas deferens. Ji JJ, et al. **Tohoku J Exp Med** 1996 Dec;180(4):347–58

Acetaldehyde inhibits current through voltage-dependent calcium channels. Morales JA, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):70–4

Voltage-activated calcium channel currents of rat dorsal root ganglion cells are reduced by trimethyl lead. Gawrisch E, et al. **Toxicol Lett** 1997 Jul 21;92(2):117–22

[The nootropic agent vinpocetine blocks the delayed rectifier potassium channel more strongly than the high-conductance calcium channel] Bukanova IuV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):911–6 (Eng. Abstr.) **(Rus)**

GENETICS

The G1021A substitution in the RYR1 gene does not cosegregate with malignant hyperthermia susceptibility in a British pedigree. Adeokun AM, et al. **Am J Hum Genet** 1997 Apr;60(4):833–41

To fire the train: a second malignant-hyperthermia gene [editorial; comment] Hogan K. **Am J Hum Genet** 1997 Jun; 60(6):1303-8 (30 ref.). Comment on: Am J Hum Genet 1997 Jun;60(6):1316-25.

Japanese families with autosomal dominant pure cerebellar ataxia map to chromosome 19p13.1-p13.2 and are strongly associated with mild CAG expansions in the spinocerebellar ataxia type 6 gene in chromosome 19p13.1. Ishikawa K, et al. **Am J Hum Genet** 1997 Aug;61(2):336-46

Malignant-hyperthermia susceptibility is associated with a mutation of the alpha 1-subunit of the human dihydropyridine-sensitive L-type voltage-dependent calcium-channel receptor in skeletal muscle [see comments] Monnier N, et al. **Am J Hum Genet** 1997 Jun;60(6):1316-25 . Comment in: Am J Hum Genet 1997 Jun;60(6):1303-8.

Identification of mutations in the CACNL1A3 gene in 13 families of Scandinavian origin having hypokalemic periodic paralysis and evidence of a founder effect in Danish families. Sillén A, et al. **Am J Med Genet** 1997 Mar 3;69(1):102-6

Spinal anesthesia for a patient with a calcium channel mutation causing hypokalemic periodic paralysis. Hecht ML, et al. **Anesth Analg** 1997 Feb;84(2):461-4

Identification of heterozygous and homozygous individuals with the novel RYR1 mutation Cys35Arg in a large kindred [see comments] Lynch PJ, et al. **Anesthesiology** 1997 Mar; 86(3):620-6. Comment in: Anesthesiology 1997 Mar;86(3):511-3.

Identification of a G/C transversion polymorphism in intron 38 of the porcine skeletal muscle ryanodine receptor gene. Brenig B, et al. **Anim Genet** 1996 Apr;27(2):128

DNA polymorphism of the ryanodine receptor gene, exon 17 among six equus species. Ishida N, et al. **Anim Genet** 1996 Oct;27(5):376

The porcine skeletal muscle ryanodine receptor gene structure coding region 1 to 10614 harbouring 71 exons. Wen G, et al. **Anim Genet** 1996 Oct;27(5):297-304

The role of the calcium release channel of skeletal muscle sarcoplasmic reticulum in malignant hyperthermia. MacLennan DH, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:294-304 (46 ref.)

Tissue-specific expression of putative domains of the mouse neuronal alpha-2 and delta genes of the voltage-gated calcium channel in rodent tissues. Wierzbicki AS, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:472-5

Chronic stimulation differentially modulates expression of mRNA for dihydropyridine receptor isoforms in rat fast twitch skeletal muscle. Péréon Y, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):217-22

Isoform diversity of the inositol trisphosphate receptor in cell types of mouse origin. De Smedt H, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):575-83

Effects of antidepressants on intracellular Ca2+ mobilization in CHO cells transfected with the human 5-HT2C receptors. Akiyoshi J, et al. **Biol Psychiatry** 1996 Jun 15; 39(12):1000-8

Inositol 1,4,5-trisphosphate receptor expression in mammalian olfactory tissue. Smutzer G, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):347-54

Mutation of the Ca2+ channel beta subunit gene Cchb4 is associated with ataxia and seizures in the lethargic (lh) mouse. Burgess DL, et al. **Cell** 1997 Feb 7;88(3):385-92

Absence epilepsy in tottering mutant mice is associated with calcium channel defects. Fletcher CF, et al. **Cell** 1996 Nov 15;87(4):607-17

Familial hemiplegic migraine and episodic ataxia type-2 are caused by mutations in the Ca2+ channel gene CACNL1A4. Ophoff RA, et al. **Cell** 1996 Nov 1; 87(3):543-52

AR4-2J cell line coexpresses dihydropyridine and omega-conotoxin sensitive Ca2+ channels. Bertrand V, et al. **Cell Calcium** 1996 Jun;19(6):495-500

Novel variants of voltage-operated calcium channel alpha 1-subunit transcripts in a rat liver-derived cell line: deletion in the IVS4 voltage sensing region. Brereton HM, et al. **Cell Calcium** 1997 Jul;22(1):39-52

RYR mutation G1021A (Gly341Arg) is not frequent in Danish and Swedish families with malignant hyperthermia susceptibility. Fagerlund T, et al. **Clin Genet** 1996 Apr; 49(4):186-8

Malignant hyperthermia susceptibility, an autosomal dominant disorder? Fagerlund TH, et al. **Clin Genet** 1997 Jun;51(6):365-9

Recombination between the postulated CCD/MHE/MHS locus and RYR1 gene markers. Fagerlund TH, et al. **Clin Genet** 1996 Dec;50(6):455-8

Voltage-sensitive calcium channels in osteoblasts: mediators of plasma membrane signalling events. Meszaros JG, et al. **Connect Tissue Res** 1996;35(1-4):107-11

A complex satellite DNA polymorphism flanking the human ryanodine receptor gene (RYR1). Wolz W, et al. **Cytogenet Cell Genet** 1996;72(2-3):215-6

Identification of four trp1 gene variants murine pancreatic beta-cells. Sakura H, et al. **Diabetologia** 1997 May; 40(5):528-32

Expression of ryanodine receptors in the pituitary gland: evidence for a role in gonadotropin-releasing hormone signaling. Sundaresan S, et al. **Endocrinology** 1997 May; 138(5):2056-65

Cloning and characterization of the 5'-upstream regulatory region of the Ca(2+)-release channel gene of cardiac sarcoplasmic reticulum. Nishida K, et al. **Eur J Biochem** 1996 Sep 1;240(2):408-15

Regional variation in expression of calbindin and inositol 1,4,5-trisphosphate receptor type 1 mRNAs in the cerebellum of the staggerer mutant mouse. Nakagawa S, et al. **Eur J Neurosci** 1996 Jul;8(7):1401-7

Tissue-specific expression of splice variants of the mouse voltage-gated calcium channel alpha2/delta subunit. Angelotti T, et al. **FEBS Lett** 1996 Nov 18;397(2-3):331-7

cDNA cloning reveals a tissue specific expression of alternatively spliced transcripts of the ryanodine receptor type 3 (RyR3) calcium release channel. Marziali G, et al. **FEBS Lett** 1996 Sep 23;394(1):76-82

Alternatively spliced forms of the cGMP-gated channel in human keratinocytes. Oda Y, et al. **FEBS Lett** 1997 Sep 1;414(1):140-5

Genomic organization and evolution of alternative exons in a Drosophila calcium channel gene. Peixoto AA, et al. **Genetics** 1997 Apr;145(4):1003-13

Genes affecting sensitivity to serotonin in Caenorhabditis elegans. Schafer WR, et al. **Genetics** 1996 Jul; 143(3):1219-30

Chromosomal localization of the human genes for alpha 1A, alpha 1B, and alpha 1E voltage-dependent Ca2+ channel subunits. Diriong S, et al. **Genomics** 1995 Dec 10; 30(3):605-9

The structure of the gene encoding the human skeletal muscle alpha 1 subunit of the dihydropyridine-sensitive L-type calcium channel (CACNL1A3). Hogan K, et al. **Genomics** 1996 Feb 1;31(3):392-4

The structural organization of the human skeletal muscle ryanodine receptor (RYR1) gene. Phillips MS, et al. **Genomics** 1996 May 15;34(1):24-41

Differences in sarcoplasmic reticulum gene expression in myocardium from patients undergoing cardiac surgery. Quantification of steady-state levels of messenger RNA using the reverse transcription-polymerase chain reaction. Ohkusa T, et al. **Heart Vessels** 1997;12(1):1-9

Towards a unified nomenclature describing voltage-gated calcium channel genes. Lory P, et al. **Hum Genet** 1997 Aug;100(2):149-50

Assignment of human genes for beta 2 and beta 4 subunits of voltage-dependent Ca2+ channels to chromosomes 10p12 and 2q22-q23. Taviaux S, et al. **Hum Genet** 1997 Aug;100(2):151-4

A genome wide search for susceptibility loci in three European malignant hyperthermia pedigrees. Robinson RL, et al. **Hum Mol Genet** 1997 Jun;6(6):953-61

Technical note: use of a PCR-single strand conformation polymorphism (PCR-SSCP) for detection of a point mutation in the swine ryanodine receptor (RYR1) gene. Nakajima E, et al. **J Anim Sci** 1996 Dec;74(12):2904-6

Dyspedic mouse skeletal muscle expresses major elements of the triadic junction but lacks detectable ryanodine receptor protein and function. Buck ED, et al. **J Biol Chem** 1997 Mar 14;272(11):7360-7

Isolation and characterization of the 5'-upstream region of the human N-type calcium channel alpha1B subunit gene. Chromosomal localization and promoter analysis. Kim DS, et al. **J Biol Chem** 1997 Feb 21;272(8):5098-104

Cloning and characterization of the type I inositol 1,4,5-trisphosphate receptor gene promoter. Regulation by 17beta-estradiol in osteoblasts. Kirkwood KL, et al. **J Biol Chem** 1997 Sep 5;272(36):22425-31

Down-regulation of L-type Ca2+ channel transcript levels by 1,25-dihyroxyvitamin D3. Osteoblastic cells express L-type alpha1C Ca2+ channel isoforms. Meszaros JG, et al. **J Biol Chem** 1996 Dec 20;271(51):32981-5

Cloning of a third mammalian Na+-Ca2+ exchanger, NCX3. Nicoll DA, et al. **J Biol Chem** 1996 Oct 4; 271(40):24914-21

Functional characterization of a distinct ryanodine receptor mutation in human malignant hyperthermia-susceptible muscle. Richter M, et al. **J Biol Chem** 1997 Feb 21; 272(8):5256-60

Ryanodine receptor expression in the kidney and a non-excitable kidney epithelial cell. Tunwell REA, et al. **J Biol Chem** 1996 Nov 22;271(47):29583-8

Inositol trisphosphate receptor gene expression and hormonal regulation in osteoblast-like cell lines and primary osteoblastic cell cultures. Kirkwood KL, et al. **J Bone Miner Res** 1996 Dec;11(12):1889-96

Molecular basis of proton block of L-type Ca2+ channels. Chen XH, et al. **J Gen Physiol** 1996 Nov;108(5):363-74

Detection of a novel mutation in the ryanodine receptor gene in an Irish malignant hyperthermia pedigree: correlation of the IVCT response with the affected and unaffected haplotypes. Keating KE, et al. **J Med Genet** 1997 Apr; 34(4):291-6

An abnormal ketamine response in mutants defective in the ryanodine receptor gene ryr-1 (unc-68) of Caenorhabditis elegans. Sakube Y, et al. **J Mol Biol** 1997 Apr 11; 267(4):849-64

Regional and age-related differences in mRNA composition of intracellular Ca(2+)-release channels of rat cardiac myocytes. Gorza L, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):1023-36

Cardiac calcium release channel (ryanodine receptor) in control and cardiomyopathic human hearts: mRNA and protein contents are differentially regulated. Sainte Beuve C, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1237-46

Functional expression of the type 1 inositol 1,4,5-trisphosphate receptor promoter-lacZ fusion genes in transgenic mice. Furutama D, et al. **J Neurochem** 1996 May;66(5):1793-801

Demonstration of an E-box and its CNS-related binding factors for transcriptional regulation of the mouse type 1 inositol 1,4,5-trisphosphate receptor gene. Konishi Y, et al. **J Neurochem** 1997 Aug;69(2):476-84

Isolation, cloning, and characterisation of a trp homologue from squid (Loligo forbesi) photoreceptor membranes. Monk PD, et al. **J Neurochem** 1996 Dec;67(6):2227-35

No association between the neuroleptic malignant syndrome and mutations in the RYR1 gene associated malignant hyperthermia. Miyatake R, et al. **J Neurol Sci** 1996 Nov; 143(1-2):161-5

Modulation of the cloned skeletal muscle L-type Ca2+ channel by anchored cAMP-dependent protein kinase. Johnson BD, et al. **J Neurosci** 1997 Feb 15;17(4):1243-55

The intracellular loop between domains I and II of the B-type calcium channel confers aspects of G-protein sensitivity to the E-type calcium channel. Page KM, et al. **J Neurosci** 1997 Feb 15;17(4):1330-8

A Drosophila calcium channel alpha1 subunit gene maps to a genetic locus associated with behavioral and visual defects. Smith LA, et al. **J Neurosci** 1996 Dec 15; 16(24):7868-79

Absence of Ca2+ current facilitation in skeletal muscle of transgenic mice lacking the type 1 ryanodine receptor. Fleig A, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):339-45

Functional and morphological features of skeletal muscle from mutant mice lacking both type 1 and type 3 ryanodine receptors. Ikemoto T, et al. **J Physiol (Lond)** 1997 Jun 1; 501 (Pt 2):305-12

Determination of halothane gene mutation associated with malignant hyperthermia in sows dead of cardiac failure. Lambert AJ, et al. **J Vet Diagn Invest** 1996 Oct;8(4):513-5

Mutations in the Cacn1a4 calcium channel gene are associated with seizures, cerebellar degeneration, and ataxia in tottering and leaner mutant mice. Doyle J, et al. **Mamm Genome** 1997 Feb;8(2):113-20

Structural analysis of the porcine skeletal muscle ryanodine receptor gene coding region 3385 to 4623. Leeb T, et al. **Mamm Genome** 1996 Feb;7(2):152-4

Polyethylenimine-mediated DNA transfection of peripheral and central neurons in primary culture: probing Ca2+ channel structure and function with antisense oligonucleotides. Lambert RC, et al. **Mol Cell Neurosci** 1996 Mar;7(3):239-46

Chromosomal localization and neural distribution of voltage dependent calcium channel beta 3 subunit gene. Park SH, et al. **Mol Cells** 1997 Apr 30;7(2):200-3

Distinct effects of mutations in transmembrane segment IVS6 on block of L-type calcium channels by structurally similar phenylalkylamines. Johnson BD, et al. **Mol Pharmacol** 1996 Nov;50(5):1388-400

Autosomal dominant cerebellar ataxia (SCA6) associated with small polyglutamine expansions in the alpha 1A-voltage-dependent calcium channel. Zhuchenko O, et al. **Nat Genet** 1997 Jan;15(1):62-9

Inheritance of three distinct muscle chloride channel gene (CLCN1) mutations in a single recessive myotonia congenita family. Sloan Brown K, et al. **Neurology** 1997 Feb;48(2):542-3

Genotype-phenotype correlations of DHP receptor alpha 1-subunit gene mutations causing hypokalemic periodic paralysis. Fouad G, et al. **Neuromuscul Disord** 1997 Jan; 7(1):33-8

Hypokalemic periodic paralysis: an autosomal dominant muscle disorder caused by mutations in a voltage-gated calcium channel. Lapie P, et al. **Neuromuscul Disord** 1997 Jun;7(4):234-40 (68 ref.)

Absence of the beta subunit (cchb1) of the skeletal muscle dihydropyridine receptor alters expression of the alpha 1 subunit and eliminates excitation-contraction coupling. Gregg RG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13961-6

Calcium channels prove to be a real headache. Miller RJ. **Trends Neurosci** 1997 May;20(5):189-92 (24 ref.)

[Molecular genetics of cardiovascular calcium channels] Lory P, et al. **Arch Mal Coeur Vaiss** 1997 Jun;90 Spec No 3:17-24 (37 ref.) (Eng. Abstr.) **(Fre)**

[Structure and expression of the porcine skeletal muscle ryanodine receptor gene] Brenig B, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct;103(10):394-9 (Eng. Abstr.) **(Ger)**

[Physiology and physiopathology of ryanodine receptors in swine. Significance of sensitivity to stress, stress myopathies, malignant hyperthermia and meat quality] Martens H. **Tierarztl Prax** 1997 Jan;25(1):41-51 (62 ref.) (Eng. Abstr.) **(Ger)**

[Receptors, genetics and malignant hyperpyrexia (editorial)] Shapira Y, et al. **Harefuah** 1997 Jun 15;132(12):849-50 **(Heb)**

IMMUNOLOGY

Immunoassays fail to detect antibodies against neuronal calcium channels in amyotrophic lateral sclerosis serum [see comments] Arsac C, et al. **Ann Neurol** 1996 Nov; 40(5):695-700. Comment in: Ann Neurol 1996 Nov;40(5):691-3.

Lambert-Eaton myasthenic syndrome: clinical diagnosis, immune-mediated mechanisms, and update on therapies. Sanders DB. **Ann Neurol** 1995 May;37 Suppl 1:S63-73 (58

ref.)
Amyotrophic lateral sclerosis and antibodies to voltage-gated calcium channels--new doubts [editorial; comment] Vincent A, et al. **Ann Neurol** 1996 Nov;40(5):691-3 (15 ref.). Comment on: Ann Neurol 1996 Nov;40(5):695-700. Comment on: Ann Neurol 1996 Nov;40(5):701-6.
Incidence of serum anti-P/O-type and anti-N-type calcium channel autoantibodies in the Lambert-Eaton myasthenic syndrome. Motomura M, et al. **J Neurol Sci** 1997 Mar 20; 147(1):35-42
Specificity of autoantibodies react with omega-conotoxin MVIIC-sensitive calcium channel in Lambert-Eaton myasthenic syndrome. Suenaga A, et al. **Muscle Nerve** 1996 Sep;19(9):1166-8
Effects of intravenous immunoglobulin on muscle weakness and calcium-channel autoantibodies in the Lambert-Eaton myasthenic syndrome. Bain PG, et al. **Neurology** 1996 Sep; 47(3):678-83
Antibodies to synthetic peptides of the alpha1A subunit of the voltage-gated calcium channel in Lambert-Eaton myasthenic syndrome. Takamori M, et al. **Neurology** 1997 May;48(5):1261-5
Absence of anti-P/Q calcium channel antibody in the sera of patients with anti-Yo antibody-positive paraneoplastic cerebellar degeneration. Tanaka K, et al. **Neurology** 1997 Sep;49(3):895-6

ISOLATION & PURIFICATION

Isolation and characterization of the primary structure of testis-specific L-type calcium channel: implications for contraception. Goodwin LO, et al. **Mol Hum Reprod** 1997 Mar;3(3):255-68
Re-evaluation of the P/Q Ca2+ channel components of Ba2+ currents in bovine chromaffin cells superfused with solutions containing low and high Ba2+ concentrations. Albillos A, et al. **Pflugers Arch** 1996 Oct;432(6):1030-8

METABOLISM

Equal changes in L-type calcium channel density after 60 min of ischaemia in normal and ischaemically preconditioned porcine myocardium. Stokke M, et al. **Acta Physiol Scand** 1996 Jun;157(2):147-55
Ca2+ channel currents in type I carotid body cells from normoxic and chronically hypoxic rats. Carpenter E, et al. **Adv Exp Med Biol** 1996;410:105-8
The possible role of voltage-operated calcium channels in the enhancement of excitatory amino acid toxicity following chronic ethanol exposure in vitro. Ruhe CA, et al. **Alcohol Alcohol Suppl** 1994;2:217-21
Tyrosine phosphorylation and bradykinin-induced signaling in endothelial cells. Fleming I, et al. **Am J Cardiol** 1997 Aug 4;80(3A):102A-109A
Effects of 2,3-butanedione monoxime on blood pressure, myocardial Ca2+ currents, and action potentials of rats. Xiao YF, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1232-40
Modal gating in neuronal and skeletal muscle ryanodine-sensitive Ca2+ release channels. Armisén R, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C144-53
Different interactions of cardiac and skeletal muscle ryanodine receptors with FK-506 binding protein isoforms. Barg S, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1726-33
Expression of inositol 1,4,5-trisphosphate receptors changes the Ca2+ signal of Xenopus oocytes. DeLisle S, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1255-61
Low PO2 inhibits calcium channel activity in arterial smooth muscle cells. Franco-Obregón A, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2290-9
Growth hormone regulates cytosolic free calcium in rat fat cells by maintaining L-type calcium channels. Gaur S, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1478-84
Calcium channel activity increased by plasma from ischemic hindlimbs of rats: role of an endogenous NO synthase inhibitor. Jin JS, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1484-92
Role of ryanodine receptor channels in Ca2+ oscillations of porcine tracheal smooth muscle. Kannan MS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L659-64
Regulation of PDGF-beta receptor-operated Ca2+ channels by phospholipase C-gamma 1 in glomerular mesangial cells. Ma H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F994-1003
Modulation of skeletal muscle Ca2(+)-release channel activity by sphingosine. Needleman DH, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1465-74
Ethanol enhances caffeine-induced Ca2+-release channel activation in skeletal muscle sarcoplasmic reticulum. Oba T, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C622-7
H2O2 modulates twitch tension and increases Po of Ca2+ release channel in frog skeletal muscle. Oba T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C810-8
Modulation of frog skeletal muscle Ca2+ release channel gating by anion channel blockers. Oba T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C819-24
BAY K 8644 and ClO4- potentiate caffeine contracture without Ca2+ release channel activation. Oba T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C41-7
Bastadins relate ryanodine-sensitive and -insensitive Ca2+ efflux pathways in skeletal SR and BC3H1 cells. Pessah IN, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C601-14
NIDDM is associated with loss of pancreatic beta-cell L-type Ca2+ channel activity. Roe MW, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E133-40
Role of calcium channel blockade in relaxation of tracheal smooth muscle by extracellular Mg2+. Sonna LA, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L251-7
Regulated calcium channel in apical membranes renal proximal tubule cells. Zhang MI, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1757-64
Ins(1,4,5)P3 receptors in cerebral arteries: changes with development and high-altitude hypoxia. Zhou L, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1954-9
Generation of cell transfectants expressing cardiac calcium ion channel and calcium indicator protein aequorin. Maeda A, et al. **Anal Biochem** 1996 Nov 1;242(1):31-9
Factors influencing [3H]ryanodine binding to the skeletal muscle Ca2+ release channel. Needleman DH, et al. **Anal Biochem** 1997 May 15;248(1):173-9
Global ischemia increases the density of voltage-dependent calcium channels in porcine cardiac sarcolemma. Blanck TJ, et al. **Anesth Analg** 1997 May;84(5):972-5
Synaptocanalins (N-type Ca channel-associated proteins) form a complex with SNAP-25 and synaptotagmin. Abe T, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:373-5
Synaptotagmin associates with presynaptic calcium channels and is a Lambert-Eaton myasthenic syndrome antigen. el Far O, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:382-5
Calcium channels in neurological disease. Greenberg DA. **Ann Neurol** 1997 Sep;42(3):275-82 (64 ref.)
Molecular determinants of drug binding and action on L-type calcium channels. Hockerman GH, et al. **Annu Rev Pharmacol Toxicol** 1997;37:361-96 (124 ref.)
Divergent effects of ruthenium red and ryanodine on Ca2+/calmodulin-dependent phosphorylation of the Ca2+ release channel (ryanodine receptor) in cardiac sarcoplasmic reticulum. Netticadan T, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):368-76
Docking of verapamil in a synthetic Ca2+ channel: formation of a ternary complex involving Ca2+ ions. Zhorov BS, et al. **Arch Biochem Biophys** 1997 May 15; 341(2):238-44
Mediation of the depolarization-induced [Ca(2+)]i increase in rat sublingual acini by acetylcholine released from nerve terminals. Zhang GH, et al. **Arch Oral Biol** 1996 Jan; 41(1):85-90
Ca2+ entry through acetylcholine receptor channel in dysgenic myotubes. Melliti K, et al. **Arch Physiol Biochem** 1996;104(1):57-61
Regulation of myocardial calcium channels by cyclic AMP metabolism. Hove-Madsen L, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:1-8 (90 ref.)
Inhibition of cloned human L-type cardiac calcium channels by 2,3-butanedione monoxime does not require PKA-dependent phosphorylation sites. Eisfeld J, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):489-92
Presence of zinc and calcium permeant channels in the inner membrane of the nuclear envelope. Longin AS, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):236-41
Depletion of [Ca2+]i inhibits hypoxia-induced vascular permeability factor (vascular endothelial growth factor) gene expression. Mukhopadhyay D, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):733-8
Characterization of voltage-sensitive calcium channels in growth plate chondrocytes. Zuscik MJ, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):432-8
Sphingosylphosphocholine modulates the ryanodine receptor/calcium-release channel of cardiac sarcoplasmic reticulum membranes. Betto R, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):327-33
Conformational changes in plant Ins(1,4,5)P3 receptor on interaction with different myo-inositol trisphosphates and its effect on Ca2+ release from microsomal fraction and liposomes. Dasgupta S, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):355-60
Fatty acyl-CoA-acyl-CoA-binding protein complexes activate the Ca2+ release channel of skeletal muscle sarcoplasmic reticulum. Fulceri R, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):423-8
Stable overexpression of the type-1 inositol 1,4,5-trisphosphate receptor in L fibroblasts: subcellular distribution and functional consequences. Mackrill JJ, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):871-8
Cross-linking analysis of the ryanodine receptor and alpha1-dihydropyridine receptor in rabbit skeletal muscle triads. Murray BE, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):689-96
Calmodulin sensitivity of the sarcoplasmic reticulum ryanodine receptor from normal and malignant-hyperthermia-susceptible muscle. O'Driscoll S, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):421-6
Intracellular targeting and homotetramer formation of a truncated inositol 1,4,5-trisphosphate receptor-green fluorescent protein chimera in Xenopus laevis oocytes: evidence for the involvement of the transmembrane spanning domain in endoplasmic reticulum targeting and homotetramer complex formation. Sayers LG, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):273-80
The human cardiac muscle ryanodine receptor-calcium release channel: identification, primary structure and topological analysis. Tunwell RE, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):477-87
Identification and function of type-2 and type-3 ryanodine receptors in gut epithelial cells. Verma V, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):449-54
Agonist-releasable intracellular calcium stores and the phenomenon of store-dependent calcium entry. A novel hypothesis based on calcium stores in organelles of the endo- and exocytotic apparatus. Bode HP, et al. **Biochem Pharmacol** 1996 Apr 26;51(8):993-1001 (71 ref.)
Block of P/Q-type calcium channels by therapeutic concentrations of aminoglycoside antibiotics. Pichler M, et al. **Biochemistry** 1996 Nov 19;35(46):14659-64
Differential effects of subunit interactions on protein kinase A- and C-mediated phosphorylation of L-type calcium channels. Puri TS, et al. **Biochemistry** 1997 Aug 5; 36(31):9605-15
Interaction of S100A1 with the Ca2+ release channel (ryanodine receptor) of skeletal muscle. Treves S, et al. **Biochemistry** 1997 Sep 23;36(38):11496-503
Structural components of ryanodine responsible for modulation of sarcoplasmic reticulum calcium channel function. Welch W, et al. **Biochemistry** 1997 Mar 11; 36(10):2939-50
Histidine-containing dipeptides as endogenous regulators of the activity of sarcoplasmic reticulum Ca-release channels. Batrukova MA, et al. **Biochim Biophys Acta** 1997 Feb 21; 1324(1):142-50
Conducting and voltage-dependent behaviors of the native and purified SR Ca2+-release channels from the canine diaphragm. Picher M, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):243-60
cAMP-dependent phosphorylation of the cardiac L-type Ca channel: a missing link? Charnet P, et al. **Biochimie** 1995; 77(12):957-62 (46 ref.)
In vitro-in vivo correlation of pharmacodynamics of felodipine in essential hypertensive patients based on an ion-channel binding model. Nakajima Y, et al. **Biol Pharm Bull** 1996 Aug;19(8):1097-9
Involvement of calciseptine-sensitive calcium channels in the evoked acetylcholine release from electric organ synaptosomes. Tokumaru H, et al. **Biol Pharm Bull** 1997 Jun;20(6):641-5
Decreased inositol 1,4,5-trisphosphate-specific binding in platelets from alcoholic subjects. Saito H, et al. **Biol Psychiatry** 1996 Nov 1;40(9):886-91
Voltage-dependent calcium current with properties of T-type current in Sertoli cells from immature rat testis in primary cultures. Lalevée N, et al. **Biol Reprod** 1997 Mar;56(3):680-7
Ca2+ current activation rate correlates with alpha 1 subunit density. Adams BA, et al. **Biophys J** 1996 Jul;71(1):156-62
Role of S4 segments and the leucine heptad motif in the activation of an L-type calcium channel. García J, et al. **Biophys J** 1997 Jun;72(6):2515-23
Modulating L-type calcium current affects discontinuous cardiac action potential conduction. Joyner RW, et al. **Biophys J** 1996 Jul;71(1):237-45
Depolarization-induced slowing of Ca2+ channel deactivation in squid neurons. McFarlane MB. **Biophys J** 1997 Apr;72(4):1607-21
Presynaptic calcium dynamics and transmitter release evoked by single action potentials at mammalian central synapses. Sinha SR, et al. **Biophys J** 1997 Feb;72(2 Pt 1):637-51
Sarcoplasmic reticulum lumenal Ca2+ has access to cytosolic activation and inactivation sites of skeletal muscle Ca2+ release channel. Tripathy A, et al. **Biophys J** 1996 Jun;70(6):2600-15
Adaptation of single cardiac ryanodine receptor channels. Vélez P, et al. **Biophys J** 1997 Feb;72(2 Pt 1):691-7
Luminal calcium regulation of calcium release from sarcoplasmic reticulum. Hidalgo C, et al. **Biosci Rep** 1995 Oct;15(5):387-97 (85 ref.)
Quantal Ca2+ release and inactivation in a model of the inositol 1,4,5-trisphosphate receptor involving transformation of the ligand by the receptor. Kaimachnikov NP, et al. **Biosci Rep** 1996 Oct;16(5):405-13
Ligand-gated channel of the sarcoplasmic reticulum Ca2+ transport ATPase. Wolosker H, et al. **Biosci Rep** 1995 Oct; 15(5):365-76 (53 ref.)
Modulation of cardiac cell Ca2+ currents by PAF. Bkaily G, et al. **Blood Press Suppl** 1996;3:59-62
I.v. anaesthetic agents do not interact with the verapamil binding site on L-type voltage-sensitive Ca2+ channels. Hirota K, et al. **Br J Anaesth** 1996 Sep;77(3):385-6
Do local anaesthetics interact with dihydropyridine binding sites on neuronal L-type Ca2+ channels? Hirota K, et al. **Br J Anaesth** 1997 Feb;78(2):185-8
Effects of neuropeptide Y on L-type calcium current in guinea-pig ventricular myocytes. Bryant SM, et al. **Br J Pharmacol** 1996 Jul;118(6):1455-60
The effect of L-type calcium channel modulators on the mobilization of intracellular calcium stores in guinea-pig intestinal smooth muscle. Dessy C, et al. **Br J Pharmacol** 1996 Sep;119(1):142-8
Spermine modulation of specific [3H]-gabapentin binding to the detergent-solubilized porcine cerebral cortex alpha 2 delta calcium channel subunit. Dissanayake VU, et al. **Br J Pharmacol** 1997 Mar;120(5):833-40
Inhibition by heterologously-expressed P2Y2 nucleotide receptors of N-type calcium currents in rat sympathetic neurones. Filippov AK, et al. **Br J Pharmacol** 1997 Jul; 121(5):849-51
Actions of the digitalis analogue strophanthidin on action potentials and L-type calcium current in single cells isolated from the rabbit atrioventricular node. Hancox JC, et al. **Br J Pharmacol** 1996 Jul;118(6):1447-54

Inhibition of Ca2+ channel current by mu- and kappa-opioid receptors coexpressed in Xenopus oocytes: desensitization dependence on Ca2+ channel alpha 1 subunits. Kaneko S, et al. **Br J Pharmacol** 1997 Jun; 121(4):806-12

Effect of capsaicin and analogues on potassium and calcium currents and vanilloid receptors in Xenopus embryo spinal neurones. Kuenzi FM, et al. **Br J Pharmacol** 1996 Sep; 119(1):81-90

Modulation by extracellular ATP of L-type calcium channels in guinea-pig single sinoatrial nodal cell. Qi AD, et al. **Br J Pharmacol** 1996 Dec;119(7):1454-62

Mediation by nitric oxide of the indirect effects of adenosine on calcium current in rabbit heart pacemaker cells. Shimoni Y, et al. **Br J Pharmacol** 1996 Dec;119(7):1463-9

Effects of N-, P- and Q-type neuronal calcium channel antagonists on mammalian peripheral neurotransmission. Wright CE, et al. **Br J Pharmacol** 1996 Sep;119(1):49-56

ATP receptor activation potentiates a voltage-dependent Ca channel in hippocampal neurons. Dave S, et al. **Brain Res** 1996 Apr 9;715(1-2):208-16

3,4-Diaminopyridine masks the inhibition of noradrenaline release from chick sympathetic neurons via presynaptic alpha 2-adrenoceptors: insights into the role of N- and L-type calcium channels. Doležal V, et al. **Brain Res** 1996 May 20;721(1-2):101-10

Two-fold effect of Angiotensin II on voltage-dependent calcium currents in rat retinal ganglion cells. Guenther E, et al. **Brain Res** 1996 Apr 29;718(1-2):112-6

Calcium channel types mediating synaptic transmission during aging. Hall SC, et al. **Brain Res** 1997 Jan 16; 745(1-2):339-42

Opioids potentiate transmitter release from SK-N-SH human neuroblastoma cells by modulating N-type calcium channels. Keren O, et al. **Brain Res** 1997 Aug 1; 764(1-2):277-82

Distribution of inositol-1,4,5-trisphosphate and ryanodine receptors in rat neostriatum. Martone ME, et al. **Brain Res** 1997 May 9;756(1-2):9-21

Distribution of the inositol trisphosphate receptor in the catfish retina. Micci MA, et al. **Brain Res** 1996 May 13; 720(1-2):139-47

Cloning and expression localization of cDNA for rat homolog of TRP protein, a possible store-operated calcium (Ca2+) channel. Funayama M, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):259-66

Voltage-gated calcium channels and nonvoltage-gated calcium uptake pathways in the rat incisor odontoblast plasma membrane. Lundgren T, et al. **Calcif Tissue Int** 1997 Jan;60(1):79-85

Coassembly of TRP and TRPL produces a distinct store-operated conductance. Xu XZ, et al. **Cell** 1997 Jun 27;89(7):1155-64

Effects of staurosporine on the capacitative regulation of the state of the Ca2+ reserves in activated Jurkat T lymphocytes. Ahnadi CE, et al. **Cell Calcium** 1996 Jun; 19(6):509-20

AR4-2J cell line coexpresses dihydropyridine and omega-conotoxin sensitive Ca2+ channels. Bertrand V, et al. **Cell Calcium** 1996 Jun;19(6):495-500

Novel variants of voltage-operated calcium channel alpha 1-subunit transcripts in a rat liver-derived cell line: deletion in the IVS4 voltage sensing region. Brereton HM, et al. **Cell Calcium** 1997 Jul;22(1):39-52

Binding and activity of the nine possible regioisomers of myo-inositol tetrakisphosphate at the inositol 1,4,5-trisphosphate receptor. Burford NT, et al. **Cell Calcium** 1997 Apr;21(4):301-10

Myoblast fusion requires cytosolic calcium elevation but not activation of voltage-dependent calcium channels. Constantin B, et al. **Cell Calcium** 1996 May;19(5):365-74

Oscillations of cytosolic free calcium in bombesin-stimulated HIT-T15 cells. Li G, et al. **Cell Calcium** 1996 Jun; 19(6):535-46

Biochemical and functional heterogeneity of rat cerebrum microsomal membranes in relation to SERCA Ca(2+)-ATPases and Ca2+ release channels. Nori A, et al. **Cell Calcium** 1996 May;19(5):375-81

Characteristics of cytosolic Ca2+ elevation induced by muscarinic receptor activation in single adrenal chromaffin cells of the guinea pig. Ohta T, et al. **Cell Calcium** 1996 Sep;20(3):303-14

Type 3 inositol 1,4,5-trisphosphate receptor and capacitative calcium entry. Putney JW Jr. **Cell Calcium** 1997 Mar; 21(3):257-61 (41 ref.)

Generation of repetitive Ca2+ transients by bombesin requires intracellular release and influx of Ca2+ through voltage-dependent and voltage independent channels in single HIT cells. Schöfl C, et al. **Cell Calcium** 1996 Jun; 19(6):485-93

Gating of the skeletal calcium release channel by ATP is inhibited by protein phosphatase 1 but not by Mg2+. Sonnleitner A, et al. **Cell Calcium** 1997 Apr;21(4):283-90

Nitric oxide activates skeletal and cardiac ryanodine receptors. Stoyanovsky D, et al. **Cell Calcium** 1997 Jan; 21(1):19-29

Identification and characterization of inositol 1,4,5-trisphosphate receptors in rat testis. Tovey SC, et al. **Cell Calcium** 1997 Apr;21(4):311-9

Regulation of cardiac Ca2+ release channel (ryanodine receptor) by Ca2+, H+, Mg2+, and adenine nucleotides under normal and simulated ischemic conditions. Xu L, et al. **Circ Res** 1996 Dec;79(6):1100-9

Pharmacological characterization and autoradiographic localization of dihydropyridine-type calcium channels in the kidney of spontaneously hypertensive rats. Amenta F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S232-3

Differences in the characterization of the Ca2+ current in ventricular myocytes between spontaneously hypertensive rats and normotensive rats. Nakata T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S230-1

Effect of 17 alpha-ethinylestradiol, levonorgestrel, 3-keto-desogestrel, and gestodene on calcium influx via voltage-gated calcium channels in human aortic smooth muscles. Seeger H, et al. **Contraception** 1996 Oct; 54(4):265-8

Inositol 1,4,5-trisphosphate receptors and calcium signaling. Michikawa T, et al. **Crit Rev Neurobiol** 1996;10(1):39-55 (117 ref.)

Intracellular signalling: more jobs for G beta gamma. Clapham DE. **Curr Biol** 1996 Jul 1;6(7):814-6 (12 ref.)

Calcium signalling: setting store by calcium channels. Hardie RC. **Curr Biol** 1996 Nov 1;6(11):1371-3 (19 ref.)

Cooperative activation of IP3 receptors by sequential binding of IP3 and Ca2+ safeguards against spontaneous activity. Marchant JS, et al. **Curr Biol** 1997 Jul 1;7(7):510-8

Localization of a putative inositol 1,4,5-triphosphate receptor in the Limulus granulocyte. Solon E, et al. **Dev Comp Immunol** 1997 May-Jun;21(3):277-85

cAMP-dependent phosphorylation of the cardiac-type alpha 1 subunit of the voltage-dependent Ca2+ channel in a murine pancreatic beta-cell line. Leiser M, et al. **Diabetes** 1996 Oct;45(10):1412-8

Energetic requirement of insulin secretion distal to calcium influx. Rustenbeck I, et al. **Diabetes** 1997 Aug;48(8):1305-11

Troglitazone reduces contraction by inhibition of vascular smooth muscle cell Ca2+ currents and not endothelial nitric oxide production. Song J, et al. **Diabetes** 1997 Apr; 46(4):659-64

Direct interaction of the calcium sensor protein synaptotagmin I with a cytoplasmic domain of the alpha1A subunit of the P/Q-type calcium channel. Charvin N, et al. **EMBO J** 1997 Aug 1;16(15):4591-6

Minimal requirements for calcium oscillations driven by the IP3 receptor. Hajnóczky G, et al. **EMBO J** 1997 Jun; 16(12):3533-43

The transient receptor potential protein (Trp), a putative store-operated Ca2+ channel essential for phosphoinositide-mediated photoreception, forms a signaling complex with NorpA, InaC and InaD. Huber A, et al. **EMBO J** 1996 Dec 16;15(24):7036-45

Genetic evidence for involvement of type 1, type 2 and type 3 inositol 1,4,5-trisphosphate receptors in signal transduction through the B-cell antigen receptor. Sugawara H, et al. **EMBO J** 1997 Jun 2;16(11):3078-88

Functional interaction of syntaxin and SNAP-25 with voltage-sensitive L- and N-type Ca2+ channels. Wiser O, et al. **EMBO J** 1996 Aug 15;15(16):4100-10

Subtype specificity of the ryanodine receptor for Ca2+ signal amplification in excitation-contraction coupling. Yamazawa T, et al. **EMBO J** 1996 Nov 15;15(22):6172-7

Intracellular calcium channels. Ashley RH. **Essays Biochem** 1995;30:97-117 (48 ref.)

Involvement of lysine residues in the gating of the ryanodine receptor/Ca2+-release channel of skeletal muscle sarcoplasmic reticulum. Feng W, et al. **Eur J Biochem** 1997 Aug 1;247(3):955-62

Regulation of rat neuronal voltage-dependent calcium channels by endogenous p21-ras. Fitzgerald EM, et al. **Eur J Neurosci** 1997 Jun;9(6):1252-61

Localization of voltage-sensitive Ca2+ fluxes and neuropeptide Y immunoreactivity to varicosities in SH-SY5Y human neuroblastoma cells differentiated by treatment with the protein kinase inhibitor staurosporine. Kukkonen JP, et al. **Eur J Neurosci** 1997 Jan;9(1):140-50

Inhibition of [Ca2+]i transients in rat adrenal chromaffin cells by neuropeptide Y: role for a cGMP-dependent protein kinase-activated K+ conductance. Lemos VS, et al. **Eur J Neurosci** 1997 Jun;9(6):1144-52

Calcium channels in neuroblastoma cell growth cones. Zimprich F, et al. **Eur J Neurosci** 1996 Mar;8(3):467-75

Ca2+ influx through glutamate receptor-associated channels in retina cells correlates with neuronal cell death. Ferreira IL, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):153-62

omega-Conotoxins block neurotransmission in the rat vas deferens by binding to different presynaptic sites on the N-type Ca2+ channel. Hirata H, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):217-23

Diltiazem derivatives modulate the dihydropyridine-binding to intact rat ventricular myocytes. Kanda S, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):101-7

Differences in isoproterenol stimulation of Ca2+ current of rat ventricular myocytes in neonatal compared to adult. Katsube Y, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2-3):391-400

Extracellular Mg2+ inhibits receptor-mediated Ca(2+)-permeable non-selective cation currents in aortic smooth muscle cells. Nakajima T, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):81-6

Pharmacological characterisation of Ca2+ channels of the L-type in human peripheral blood lymphocytes. Ricci A, et al. **Eur J Pharmacol** 1996 Apr 22;301(1-3):189-94

Effects of anandamide and arachidonic acid on specific binding of (+) -PN200-110, diltiazem and (-) -desmethoxyverapamil to L-type Ca2+ channel. Shimasue K, et al. **Eur J Pharmacol** 1996 Feb 5;296(3):347-50

Effects of ATP on specific [3H](+)-isradipine binding in rat ventricular cardiomyocytes. Stokke M, et al. **Eur J Pharmacol** 1996 May 6;303(1-2):115-22

Distribution of N-type Ca2+ channel binding sites in rabbit brain following central administration of omega-conotoxin GVIA. Whorlow SL, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):11-8

Orthophosphate salts induce calcium current recovery from blockade by gadolinium in isolated guinea-pig ventricular myocytes. Le Guennec JY, et al. **Exp Physiol** 1996 Jul; 81(4):577-85

Comparison of ultra-slow, voltage-dependent inactivation of the cardiac L-type Ca2+ channel with Ca2+ or Ba2+ as the charge carrier in ferret ventricular myocytes. McMorn SO, et al. **Exp Physiol** 1996 Jul;81(4):565-75

L-type calcium current in catecholamine-induced cardiac hypertrophy in the rat. Mészáros J, et al. **Exp Physiol** 1997 Jan;82(1):71-83

PACAP modulates L-type Ca2+ channel currents in vascular smooth muscle cells: involvement of PKC and PKA. Chik CL, et al. **FASEB J** 1996 Sep;10(11):1310-17

Low-conductance high selective inositol (1,4,5)-trisphosphate activated Ca2+ channels in plasma membrane of A431 carcinoma cells. Kiselyov KI, et al. **FEBS Lett** 1997 May 5;407(3):309-12

Modulation of the ER Ca2+ channel BCC1 from tendrils of Bryonia dioica by divalent cations, protons and H2O2. Klüsener B, et al. **FEBS Lett** 1997 Apr 28;407(2):230-4

alpha1-beta interaction in voltage-gated cardiac L-type calcium channels. Marquart A, et al. **FEBS Lett** 1997 Apr 28;407(2):137-40

Expression of a rapidly inactivating Ca2+ channel in Pleurodeles oocytes during the resting season. Ouadid H. **FEBS Lett** 1996 Dec 2;398(2-3):285-90

Binding of chimeric analogs of omega-conotoxin MVIIA and MVIIC to the N- and P/Q-type calcium channels. Sato K, et al. **FEBS Lett** 1997 Sep 8;414(2):480-4

Essential role of the beta subunit in modulation of C-class L-type Ca2+ channels by intracellular pH. Schuhmann K, et al. **FEBS Lett** 1997 May 12;408(1):75-80

Possible roles of inositol 1,4,5-trisphosphate 3-kinase B in calcium homeostasis. Soriano S, et al. **FEBS Lett** 1997 Feb 10;403(1):1-4

Activation of plasma membrane voltage-dependent calcium-permeable channels by disruption of microtubules in carrot cells. Thion L, et al. **FEBS Lett** 1996 Sep 9; 393(1):13-8

Functional importance of the dihydropyridine-sensitive, yet voltage-insensitive store-operated Ca2+ influx of U937 cells. Willmott NJ, et al. **FEBS Lett** 1996 Sep 30; 394(2):159-64

Stimulation-dependent redistribution of charge movement between unavailable and available states. Stroffekova K, et al. **Gen Physiol Biophys** 1997 Mar;16(1):79-89

Development of a functional assay for Ca2+ release activity of IP3R and expression of an IP3R gene fragment in the baculovirus-insect cell system. Raghu P, et al. **Gene** 1997 Apr 29;190(1):151-6

Impaired interleukin-3 mRNA decay in autocrine mast cell tumors after transient calcium ionophore stimulation. Hirsch HH, et al. **Growth Factors** 1996;13(1-2):99-110

Dendritic calcium channels and hippocampal long-term depression. Christie BR, et al. **Hippocampus** 1996;6(1):17-23 (55 ref.)

Altered calcium signal transduction in B-1 malignant cells. Dang AM, et al. **Immunol Cell Biol** 1995 Dec;73(6):511-20

Relation between effects of a set of anti-allergic drugs on calcium pathways and membrane structure in Fc epsilon RI activated signal transduction. Fischer MJ, et al. **Inflamm Res** 1996 Nov;45(11):564-73

Ryanodine receptor binding constants in skeletal muscle, heart, brain and liver of the Mexican volcano mouse (Neotomodon alstoni alstoni; Rodentia:Cricetidae). Comparison with five other rodent species. Martínez-Merlos T, et al. **Int J Biochem Cell Biol** 1997 Mar;29(3):529-39

Expression of L-type Ca2+ channel during early embryogenesis in Xenopus laevis. Drean G, et al. **Int J Dev Biol** 1995 Dec;39(6):1027-32

Types and activities of voltage-operated calcium channels change during development of rat pituitary neurointermediate lobe. Beatty DM, et al. **Int J Dev Neurosci** 1996 Aug;14(5):597-612

Regulation of calcium release channel in sarcoplasmic reticulum. Kasai M, et al. **Ion Channels** 1996;4:303-31 (41 ref.)

Voltage-dependent calcium channels and Gi regulatory protein mediate the human sperm acrosomal exocytosis induced by N-acetylglucosaminyl/mannosyl neoglycoproteins. Brandelli A, et al. **J Androl** 1996 Sep-Oct;17(5):522-9

Cyclic AMP-dependent protein kinase but not protein kinase C regulates the cardiac Ca2+ channel through phosphorylation of its alpha 1 subunit. Kameyama A, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):170-6

The permeability transition pore as a mitochondrial calcium release channel: a critical appraisal. Bernardi P, et al. **J Bioenerg Biomembr** 1996 Apr;28(2):131-8 (67 ref.)

Permeability transition pore of the inner mitochondrial membrane can operate in two open states with different

selectivities. Novgorodov SA, et al.
J Bioenerg Biomembr 1996 Apr;28(2):139–46 (56 ref.)

Angiotensin II–induced down–regulation of inositol trisphosphate receptors in WB rat liver epithelial cells. Evidence for involvement of the proteasome pathway. Bokkala S, et al. **J Biol Chem** 1997 May 9;272(19):12454–61

Molecular cloning of a novel variant of the pituitary adenylate cyclase–activating polypeptide (PACAP) receptor that stimulates calcium influx by activation of L–type calcium channels. Chatterjee TK, et al.
J Biol Chem 1996 Dec 13;271(50):32226–32

Functional characterization of the recombinant type 3 Ca2+ release channel (ryanodine receptor) expressed in HEK293 cells. Chen SRW, et al. **J Biol Chem** 1997 Sep 26; 272(39):24234–46

Identification of palmitoylation sites within the L–type calcium channel beta2a subunit and effects on channel function. Chien AJ, et al. **J Biol Chem** 1996 Oct 25; 271(43):26465–8

Ryanodine receptor type III (Ry3R) identification in mouse parotid acini. Properties and modulation of [3H]ryanodine–binding sites. DiJulio DH, et al.
J Biol Chem 1997 Jun 20;272(25):15687–96

Identification of a 15–kDa cAMP–dependent protein kinase–anchoring protein associated with skeletal muscle L–type calcium channels. Gray PC, et al. **J Biol Chem** 1997 Mar 7;272(10):6297–302

Extracellular interaction of the voltage–dependent Ca2+ channel alpha2delta and alpha1 subunits. Gurnett CA, et al. **J Biol Chem** 1997 Jul 18;272(29):18508–12

Molecular determinants of high affinity phenylalkylamine block of L–type calcium channels in transmembrane segment IIIS6 and the pore region of the alpha1 subunit. Hockerman GH, et al. **J Biol Chem** 1997 Jul 25; 272(30):18759–65

Parathyroid hormone–related peptide is produced by cultured cerebellar granule cells in response to L–type voltage–sensitive Ca2+ channel flux via a Ca2+/calmodulin–dependent kinase pathway. Holt EH, et al. **J Biol Chem** 1996 Nov 8;271(45):28105–11

Membrane insertion, glycosylation, and oligomerization of inositol trisphosphate receptors in a cell–free translation system. Joseph SK, et al. **J Biol Chem** 1997 Jan 17; 272(3):1579–88

Activation of a calcium–permeable cation channel CD20 expressed in Balb/c 3T3 cells by insulin–like growth factor–I. Kanzaki M, et al. **J Biol Chem** 1997 Feb 21; 272(8):4964–9

Molecular studies of the asymmetric pore structure of the human cardiac voltage– dependent Ca2+ channel. Conserved residue, Glu–1086, regulates proton–dependent ion permeation. Klöckner U, et al. **J Biol Chem** 1996 Sep 13;271(37):22293–6

Polarized expression of Ca2+ channels in pancreatic and salivary gland cells. Correlation with initiation and propagation of [Ca2+]i waves. Lee MG, et al.
J Biol Chem 1997 Jun 20;272(25):15765–70

A betagamma dimer derived from G13 transduces the angiotensin AT1 receptor signal to stimulation of Ca2+ channels in rat portal vein myocytes. Macrez N, et al.
J Biol Chem 1997 Sep 12;272(37):23180–5

Regulation of skeletal muscle Ca2+ release channel (ryanodine receptor) by Ca2+ and monovalent cations and anions. Meissner G, et al. **J Biol Chem** 1997 Jan 17; 272(3):1628–38

Characterization of type 3 ryanodine receptor (RyR3) of sarcoplasmic reticulum from rabbit skeletal muscles. Murayama T, et al. **J Biol Chem** 1997 Sep 19; 272(38):24030–7

N–type Ca2+ channels are present in secretory granules and are transiently translocated to the plasma membrane during regulated exocytosis. Passafaro M, et al. **J Biol Chem** 1996 Nov 22;271(47):30096–104

Identification and functional reconstitution of the type 2 inositol 1,4,5–trisphosphate receptor from ventricular cardiac myocytes. Perez PJ, et al. **J Biol Chem** 1997 Sep 19;272(38):23961–9

Functional expression and characterization of skeletal muscle dihydropyridine receptors in Xenopus oocytes. Ren D, et al. **J Biol Chem** 1997 Sep 5;272(36):22393–6

Characterization of a cytosolic and a luminal Ca2+ binding site in the type I inositol 1,4,5–trisphosphate receptor. Sienaert I, et al. **J Biol Chem** 1996 Oct 25;271(43):27005–12

High density distribution of endoplasmic reticulum proteins and mitochondria at specialized Ca2+ release sites in oligodendrocyte processes. Simpson PB, et al.
J Biol Chem 1997 Sep 5;272(36):22654–61

Temperature–dependent block of capacitative Ca2+ influx in the human leukemic cell line KU–812. Somasundaram B, et al. **J Biol Chem** 1996 Oct 18;271(42):26096–104

24R,25–(OH)2 vitamin D3 inhibits 1alpha,25–(OH)2 vitamin D3 and testosterone potentiation of calcium channels in osteosarcoma cells. Takeuchi K, et al. **J Biol Chem** 1996 Dec 27;271(52):33335–43

Inositol 1,4,5–trisphosphate–dependent oscillations of luminal [Ca2+] in permeabilized HSY cells. Tanimura A, et al.
J Biol Chem 1996 Nov 29;271(48):30904–8

Expression of the ryanodine receptor type 3 calcium release channel during development and differentiation of mammalian skeletal muscle cells. Tarroni P, et al.
J Biol Chem 1997 Aug 8;272(32):19808–13

Ortho–substituted polychlorinated biphenyls alter microsomal calcium transport by direct interaction with ryanodine receptors of mammalian brain. Wong PW, et al. **J Biol Chem** 1997 Jun 13;272(24):15145–53

Functional interactions between cytoplasmic domains of the skeletal muscle Ca2+ release channel. Wu Y, et al.
J Biol Chem 1997 Oct 3;272(40):25051–61

A region of the ryanodine receptor critical for excitation–contraction coupling in skeletal muscle. Yamazawa T, et al. **J Biol Chem** 1997 Mar 28; 272(13):8161–4

Evidence that zymogen granules are not a physiologically relevant calcium pool. Defining the distribution of inositol 1,4,5–trisphosphate receptors in pancreatic acinar cells. Yule DI, et al. **J Biol Chem** 1997 Apr 4;272(14):9093–8

Glutathione modulates ryanodine receptor from skeletal muscle sarcoplasmic reticulum. Evidence for redox regulation of the Ca2+ release mechanism. Zable AC, et al. **J Biol Chem** 1997 Mar 14;272(11):7069–77

Complex formation between junctin, triadin, calsequestrin, and the ryanodine receptor. Proteins of the cardiac junctional sarcoplasmic reticulum membrane. Zhang L, et al. **J Biol Chem** 1997 Sep 12;272(37):23389–97

Regional gradation of L–type calcium currents in the feline heart with a healed myocardial infarct. Pinto JM, et al.
J Cardiovasc Electrophysiol 1997 May;8(5):548–60

Chronic nifedipine treatment diminishes cardiac inotropic response to nifedifine: functional upregulation of dihydropyridine receptors. de Cingolani GE, et al.
J Cardiovasc Pharmacol 1996 Feb;27(2):240–6

Interaction of lacidipine with its receptor binding site supports a slow onset and long duration of action. Graziani F, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):290–6

Chloroquine, quinine and quinidine inhibit calcium release from macrophage intracellular stores by blocking inositol 1,4,5–trisphosphate binding to its receptor. Misra UK, et al. **J Cell Biochem** 1997 Feb;64(2):225–32

Meiosis reinitiation of mussel oocytes involves L–type voltage–gated calcium channel. Tomkowiak M, et al.
J Cell Biochem 1997 Jan;64(1):152–60

Coordinated incorporation of skeletal muscle dihydropyridine receptors and ryanodine receptors in peripheral couplings of BC3H1 cells. Protasi F, et al.
J Cell Biol 1997 May 19;137(4):859–70

Up–regulation of Ca2+ influx mediated by store–operated channels in HL60 cells induced to differentiate by 1 alpha,25–dihydroxyvitamin D3. Gardner JP, et al.
J Cell Physiol 1997 Sep;172(3):284–95

Excitatory and inhibitory actions of norepinephrine on the Ba2+ current through L–type Ca2+ channels of smooth muscle cells of guinea–pig vas deferens. Kamimura N, et al. **J Cell Physiol** 1996 Nov;169(2):373–9

Effects of caffeine on the influx of extracellular calcium in GH4C1 pituitary cells. Karhapää L, et al.
J Cell Physiol 1997 Apr;171(1):52–60

Polar localization of a dihydropyridine receptor on living Fucus zygotes. Shaw SL, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):335–42

Relationship between extracellular glutamate concentration and voltage–sensitive calcium channel function in focal cerebral ischemia in the rat. Osuga H, et al.
J Cereb Blood Flow Metab 1996 Jul;16(4):629–36

The effects of SB 206284A, a novel neuronal calcium–channel antagonist, in models of cerebral ischemia. Wood NI, et al. **J Cereb Blood Flow Metab** 1997 Apr; 17(4):421–9

Voltage–gated calcium channel currents in human coronary myocytes. Regulation by cyclic GMP and nitric oxide. Quignard JF, et al. **J Clin Invest** 1997 Jan 15;99(2):185–93

Distribution of omega–Conotoxin GVIA binding sites in teleost cerebellar and electrosensory neurons. Tharani Y, et al. **J Comp Neurol** 1996 Jan 15;364(3):456–472

Dihydropyridine–sensitive and –insensitive voltage–operated calcium channels participate in the control of glucose–induced insulin release from human pancreatic beta cells. Davalli AM, et al. **J Endocrinol** 1996 Aug; 150(2):195–203

Dihydropyridine and ryanodine binding in ventricles from rat, trout, dogfish and hagfish. Thomas MJ, et al.
J Exp Biol 1996 Sep;199 (Pt 9):1999–2009

Redox modulation of L–type calcium channels in ferret ventricular myocytes. Dual mechanism regulation by nitric oxide and S–nitrosothiols. Campbell DL, et al.
J Gen Physiol 1996 Oct;108(4):277–93

Unitary behavior of skeletal, cardiac, and chimeric L–type Ca2+ channels expressed in dysgenic myotubes. Dirksen RT, et al. **J Gen Physiol** 1996 Jun;107(6):731–42

Ion–dependent inactivation of barium current through L–type calcium channels. Ferreira G, et al.
J Gen Physiol 1997 Apr;109(4):449–61

Adrenaline stimulates glucagon secretion in pancreatic A–cells by increasing the Ca2+ current and the number of granules close to the L–type Ca2+ channels. Gromada J, et al. **J Gen Physiol** 1997 Sep;110(3):217–28

Block of single L–type Ca2+ channels in skeletal muscle fibers by aminoglycoside antibiotics. Haws CM, et al.
J Gen Physiol 1996 Mar;107(3):421–32

Increased expression of the cardiac L–type calcium channel in estrogen receptor–deficient mice. Johnson BD, et al.
J Gen Physiol 1997 Aug;110(2):135–40

Fast activation of dihydropyridine–sensitive calcium channels of skeletal muscle. Multiple pathways of channel gating. Ma J, et al. **J Gen Physiol** 1996 Sep;108(3):221–32

Single–channel kinetics, inactivation, and spatial distribution of inositol trisphosphate (IP3) receptors in Xenopus oocyte nucleus. Mak DO, et al. **J Gen Physiol** 1997 May; 109(5):571–87

Methanethiosulfonate derivatives inhibit current through the ryanodine receptor/channel. Quinn KE, et al.
J Gen Physiol 1997 Feb;109(2):255–64

The inositol 1,4,5–trisphosphate receptor of cerebellum. Mn2+ permeability and regulation by cytosolic Mn2+. Striggow F, et al. **J Gen Physiol** 1996 Aug;108(2):115–24

Ca2+–induced Ca2+ release in Chinese hamster ovary (CHO) cells co–expressing dihydropyridine and ryanodine receptors. Suda N, et al. **J Gen Physiol** 1997 May; 109(5):619–31

Characterization of ryanodine–sensitive Ca2+ release from microsomal vesicles of rat parotid acinar cells: regulation by cyclic ADP–ribose. Ozawa T, et al. **J Membr Biol** 1997 Apr 1;156(3):231–9

Leukotriene D4–induced Ca2+ mobilization in Ehrlich ascites tumor cells. Pedersen S, et al. **J Membr Biol** 1997 Jan 1;155(1):61–73

Characterization of the high–affinity verapamil binding site in a plant plasma membrane Ca2+–selective channel. Piñeros M, et al. **J Membr Biol** 1997 May 15;157(2):139–45

Modification of the conductance and gating properties of ryanodine receptors by suramin. Sitsapesan R, et al.
J Membr Biol 1996 Sep;153(2):93–103

Mechanism of Ca(2+)–dependent inactivation of L–type Ca2+ channels in GH3 cells: direct evidence against dephosphorylation by calcineurin. Victor RG, et al.
J Membr Biol 1997 Mar 1;156(1):53–61

An L–type calcium channel in renal epithelial cells. Zhang MIN, et al. **J Membr Biol** 1996 Dec;154(3):259–66

Expression of calcium channels in adult cardiac myocytes is regulated by calcium. Davidoff AJ, et al.
J Mol Cell Cardiol 1997 Jul;29(7):1791–803

Butanedione monoxime promotes voltage–dependent inactivation of L–type calcium channels in heart. Effects on gating currents. Ferreira G, et al.
J Mol Cell Cardiol 1997 Feb;29(2):777–87

Sympathetic modulation of the effect of nifedipine on myocardial contraction and Ca current in the rat. Legssyer AK, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):579–91

Cardiac calcium release channel (ryanodine receptor) in control and cardiomyopathic human hearts: mRNA and protein contents are differentially regulated. Sainte Beuve C, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1237–46

Ontogeny of sarcoplasmic reticulum protein phosphorylation by Ca2+–calmodulin–dependent protein kinase. Xu A, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):405–18

Inhibition of L–type calcium current in rat ventricular cells by the tyrosine kinase inhibitor, genistein and its inactive analog, daidzein. Yokoshiki H, et al.
J Mol Cell Cardiol 1996 Apr;28(4):807–14

Modulation of Ca2+ channels, charge movement and Ca2+ transients by heparin in frog skeletal muscle fibres. Martínez M, et al. **J Muscle Res Cell Motil** 1996 Oct;17(5):575–94

Bastadin 20 and bastadin O–sulfate esters from Ianthella basta: novel modulators of the Ry1R FKBP12 receptor complex. Franklin MA, et al. **J Nat Prod** 1996 Dec;59(12):1121–7

Autoradiographic characterization of [3H]inositol (1,4,5) trisphosphate and [3H]inositol (1,3,4,5) tetrakisphosphate binding sites in human brain. Kurumatani T, et al.
J Neural Transm 1997;104(2–3):175–89

The delta–opioid receptor regulates activity of ryanodine receptors in the human neuroblastoma cell line SK–N–BE. Allouche S, et al. **J Neurochem** 1996 Dec;67(6):2461–70

Up–regulation of sodium channel subunit mRNAs and their cell surface expression by antiepileptic valproic acid: activation of calcium channel and catecholamine secretion in adrenal chromaffin cells. Yamamoto R, et al.
J Neurochem 1997 Apr;68(4):1655–62

Spatiotemporal distribution of intracellular calcium transients during epileptiform activity in guinea pig hippocampal slices. Albowitz B, et al. **J Neurophysiol** 1997 Jan; 77(1):491–501

Effects of serotonin on caudal raphe neurons: inhibition of N– and P/Q–type calcium channels and the afterhyperpolarization. Bayliss DA, et al.
J Neurophysiol 1997 Mar;77(3):1362–74

Increased calcium current in carotid body glomus cells following in vivo acclimatization to chronic hypoxia. Hempleman SC. **J Neurophysiol** 1996 Sep;76(3):1880–6

Ca2+ ion permeability properties of (R,S) alpha–amino–3–hydroxy–5–methyl–4–isoxazolepropionate (AMPA) receptors in isolated interneurons from the olfactory bulb of the rat. Jardemark K, et al.
J Neurophysiol 1997 Feb;77(2):702–8

Calcium flux through predominantly independent purinergic ATP and nicotinic acetylcholine receptors. Rogers M, et al. **J Neurophysiol** 1997 Mar;77(3):1407–17

Ectopic alpha2–adrenoceptors couple to N–type Ca2+ channels in axotomized rat sensory neurons. Abdulla FA, et al. **J Neurosci** 1997 Mar 1;17(5):1633–41

The alpha 1E calcium channel exhibits permeation properties similar to low–voltage–activated calcium channels. Bourinet E, et al. **J Neurosci** 1996 Aug 15;16(16):4983–93

Regulation of mouse skeletal muscle L–type Ca2+ channel by activation of the insulin–like growth factor–1 receptor. Delbono O, et al. **J Neurosci** 1997 Sep 15;17(18):6918–28

Modulation of the cloned skeletal muscle L–type Ca2+ channel by anchored cAMP–dependent protein kinase.

Johnson BD, et al. **J Neurosci** 1997 Feb 15;17(4):1243–55
Expression and subunit interaction of voltage–dependent Ca2+ channels in PC12 cells. Liu H, et al. **J Neurosci** 1996 Dec 1;16(23):7557–65
Ca(2+)–permeable AMPA/kainate and NMDA channels: high rate of Ca2+ influx underlies potent induction of injury. Lü YM, et al. **J Neurosci** 1996 Sep 1;16(17):5457–65
Regional expression and cellular localization of the alpha1 and beta subunit of high voltage–activated calcium channels in rat brain. Ludwig A, et al. **J Neurosci** 1997 Feb 15;17(4):1339–49
Linearized buffered Ca2+ diffusion in microdomains and its implications for calculation of [Ca2+] at the mouth of a calcium channel. Naraghi M, et al. **J Neurosci** 1997 Sep 15;17(18):6961–73
Multiple components of Ca2+ channel facilitation in cerebellar granule cells: expression of facilitation during development in culture. Parri HR, et al. **J Neurosci** 1996 Aug 15;16(16):4890–902
Serotonergic inhibition of the T–type and high voltage–activated Ca2+ currents in the primary sensory neurons of Xenopus larvae. Sun QQ, et al. **J Neurosci** 1997 Sep 15;17(18):6839–49
All–or–none Ca2+ release from intracellular stores triggered by Ca2+ influx through voltage–gated Ca2+ channels in rat sensory neurons. Usachev YM, et al. **J Neurosci** 1997 Oct 1;17(19):7404–14
Identification of a vesicular pool of calcium channels in the bag cell neurons of Aplysia californica. White BH, et al. **J Neurosci** 1997 Mar 1;17(5):1582–95
Facilitation of N–type calcium current is dependent on the frequency of action potential–like depolarizations in dissociated cholinergic basal forebrain neurons of the guinea pig. Williams S, et al. **J Neurosci** 1997 Mar 1; 17(5):1625–32
Phosphorylation of the synaptic protein interaction site on N–type calcium channels inhibits interactions with SNARE proteins. Yokoyama CT, et al. **J Neurosci** 1997 Sep 15; 17(18):6929–38
Properties of ryanodine receptors in cultured cerebellar granule neurons: effects of hexachlorocyclohexane isomers and calcium. Rosa R, et al. **J Neurosci Res** 1997 Jan 1; 47(1):27–33
Early signaling events by endotoxin in PC12 cells: involvement of tyrosine kinase, constitutive nitric oxide synthase, cGMP–dependent protein kinase, and Ca2+ channels. Simard JM, et al. **J Neurosci Res** 1996 Aug 1; 45(3):216–25
Endothelin–1 mediated Ca2+ influx does not occur through L–type voltage–dependent Ca2+ channels in cultured bovine trabecular meshwork cells. Kageyama M, et al. **J Ocul Pharmacol Ther** 1996 Winter;12(4):433–40
Effect of cilnidipine, a novel dihydropyridine Ca++–channel antagonist, on N–type Ca++ channel in rat dorsal root ganglion neurons. Fujii S, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1184–91
High–affinity binding of DTZ323, a novel derivative of diltiazem, to rabbit skeletal muscle L–type Ca++ channels. Hagiwara M, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):173–9
Limulus ventral photoreceptors contain two functionally dissimilar inositol triphosphate–induced calcium release mechanisms. Levy S, et al. **J Photochem Photobiol B** 1996 Aug;35(1–2):97–103
Facilitation of T–type calcium current in bullfrog atrial cells: voltage–dependent relief of a G protein inhibitory tone. Alvarez JL, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):321–34
Bursts of action potential waveforms relieve G–protein inhibition of recombinant P/Q–type Ca2+ channels in HEK 293 cells. Brody DL, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):637–44
Ca(2+)–activated K+ channels in rat otic ganglion cells: role of Ca2+ entry via Ca2+ channels and nicotinic receptors. Callister RJ, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):571–82
G(o)–2 protein mediates the reduction in Ca2+ currents by somatostatin in cultured ovine somatotrophs. Chen C, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):21–9
Differential effects of protein kinase C activation on 5–HT1A receptor coupling to Ca2+ and K+ currents in rat serotonergic neurones. Chen Y, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):129–37
Single L–type calcium channel conductance with physiological levels of calcium in chick ciliary ganglion neurons. Church PJ, et al. **J Physiol (Lond)** 1996 Oct 1; 496 (Pt 1):59–68
Hypoxia inhibits the recombinant alpha 1C subunit of the human cardiac L–type Ca2+ channel. Fearon IM, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):551–6
Absence of Ca2+ current facilitation in skeletal muscle of transgenic mice lacking the type 1 ryanodine receptor. Fleig A, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):339–45
Differentiation of the human monocytic cell line U937 results in an upregulation of the calcium release–activated current, ICRAC. Floto RA, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):331–8
Release and sequestration of calcium by ryanodine–sensitive stores in rat hippocampal neurones. Garaschuk O, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):13–30
ADP–induced rapid inward currents through Ca(2+)–permeable cation channels in mouse, rat and guinea–pig megakaryocytes: a patch–clamp study. Kawa K. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):339–52
Stimulation of a nicotinic ACh receptor causes depolarization and activation of L–type Ca2+ channels in rat pinealocytes. Letz B, et al. **J Physiol (Lond)** 1997 Mar 1; 499 (Pt 2):329–40
Modulation of Ca2+ channel activity by ATP metabolism and internal Mg2+ in guinea–pig basilar artery smooth muscle cells. McHugh D, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):359–76
Calcium–induced inactivation of NMDA receptor–channels evolves independently of run–down in cultured rat brain neurones. Medina I, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):411–27
Opposing effects of phorbol esters on transmitter release and calcium currents at frog motor nerve endings. Redman RS, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):41–8
Plateau–generating neurones in the dorsal horn in an in vitro preparation of the turtle spinal cord. Russo RE, et al. **J Physiol (Lond)** 1996 May 15;493 (Pt 1):39–54
Multiple calcium channels control neurotransmitter release from rat postganglionic sympathetic nerve terminals. Smith AB, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):341–9
Role of L– and N–type Ca2+ channels in muscarinic receptor–mediated facilitation of ACh and noradrenaline release in the rat urinary bladder. Somogyi GT, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):645–54
Effects of extracellular pH on voltage–gated Na+, K+ and Ca2+ currents in isolated rat CA1 neurons. Tombaugh GC, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):719–32
Calcium permeability increase of endplate channels in rat muscle during postnatal development. Villarroel A, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):331–8
Calcium currents, transmitter release and facilitation of release at voltage–clamped crayfish nerve terminals. Wright SN, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):363–78
Comparison of sarcolemmal calcium channel current in rabbit and rat ventricular myocytes. Yuan W, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):733–46
The source of contracticle calcium in guinea–pig cardiac myocytes treated with thapsigargin. Janiak R, et al. **J Physiol Pharmacol** 1996 Sep;47(3):411–23
Expression of ligand–gated ion channels with the Semliki Forest virus expression system. Lundstrom K, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):115–26
Effects of sodium and calcium channel blockade on cytosolic calcium oscillations and phasic contractions of myometrial tissue. Phillippe M, et al. **J Soc Gynecol Investig** 1997 Mar–Apr;4(2):72–7
Hemolysate inhibits L–type Ca2+ channels in rat basilar smooth muscle cells. Kim CJ, et al. **J Vasc Res** 1996 May–Jun;33(3):258–64
Identification of binding sites for calcium channel antagonists. Nakayama H, et al. **Jpn Heart J** 1996 Sep;37(5):643–50 (22 ref.)
[3H]benzylpempidine, a new radioligand for probing a putative channel site on nicotinic cholinergic receptors. Wang DX, et al. **Life Sci** 1997;60(15):1271–7
L–type calcium channel activation controls the in vivo transduction of the neuralizing signal in the amphibian embryos. Leclerc C, et al. **Mech Dev** 1997 Jun; 64(1–2):105–10
Effect of nitric oxide synthase inhibitor on age–related changes in second messenger systems and calcium channels in rats. Araki T, et al. **Metab Brain Dis** 1996 Mar; 12(1):83–92
In–vivo phosphorylation of the cardiac L–type calcium channel beta–subunit in response to catecholamines. Haase H, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:99–106
Antibodies from Trypanosoma cruzi infected mice recognize the second extracellular loop of the beta 1–adrenergic and M2–muscarinic receptors and regulate calcium channels in isolated cardiomyocytes. Mijares A, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:107–12
Unaltered ryanodine receptor protein levels in ischemic cardiomyopathy. Schillinger W, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:297–302
Calcium channels and cation transport ATPases in cardiac hypertrophy induced by aortic constriction in newborn rats. Zheng L, et al. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:23–9
Differential involvement of calcium channels and protein kinase–C activity in GnRH–induced phospholipase–C, –A2 and –D activation in a gonadotrope cell line (alpha T3–1). Poulin B, et al. **Mol Cell Endocrinol** 1996 Aug 30; 122(1):33–50
omega–Conotoxin–sensitive Ca2+ voltage–gated channels modulate protein secretion in cultured rat Sertoli cells. Taranta A, et al. **Mol Cell Endocrinol** 1997 Feb 7; 126(2):117–23
Inhibition of the T–type Ca2+ current by the dopamine D1 receptor in rat adrenal glomerulosa cells: requirement of the combined action of the G betagamma protein subunit and cyclic adenosine 3',5'–monophosphate. Drolet P, et al. **Mol Endocrinol** 1997 Apr;11(4):503–14
L–type calcium channels in insulin–secreting cells: biochemical characterization and phosphorylation in RINm5F cells. Safayhi H, et al. **Mol Endocrinol** 1997 May; 11(5):619–29
Thyrotropin (TSH)–releasing hormone stimulates TSH beta promoter activity by two distinct mechanisms involving calcium influx through L type Ca2+ channels and protein kinase C. Shupnik MA, et al. **Mol Endocrinol** 1996 Jan; 10(1):90–9
The action of carboxyl modifying reagents on the ryanodine receptor/Ca2+ release channel of skeletal muscle sarcoplasmic reticulum. Feng W, et al. **Mol Membr Biol** 1996 Apr–Jun;13(2):85–93
Activity–dependent changes in voltage–dependent calcium currents and transmitter release. Lnenicka GA, et al. **Mol Neurobiol** 1997 Feb–Apr;14(1–2):37–66 (94 ref.)
Membrane–delimited G protein–mediated coupling between V1a vasopressin receptor and dihydropyridine binding sites in rat glomerulosa cells. Grazzini E, et al. **Mol Pharmacol** 1996 Nov;50(5):1273–83
Enantiomers of myo–inositol–1,3,4–trisphosphate and myo–inositol–1,4,6 –trisphosphate: stereospecific recognition by cerebellar and platelet myo–inositol–1,4,5–trisphosphate receptors. Murphy CT, et al. **Mol Pharmacol** 1996 Nov;50(5):1223–30
Subunit composition is a major determinant in high affinity binding of a Ca2+ channel blocker. Suh–Kim H, et al. **Mol Pharmacol** 1996 Nov;50(5):1330–7
Striational autoantibodies in myasthenia gravis mainly react with ryanodine receptor. Iwasa K. **Muscle Nerve** 1997 Jun; 20(6):753–6
Direct binding of G–protein betagamma complex to voltage–dependent calcium channels [see comments] De Waard M, et al. **Nature** 1997 Jan 30;385(6615):446–50. Comment in: Nature 1997 Jan 30;385(6615):394–5, 397.
Cleavage of syntaxin prevents G–protein regulation of presynaptic calcium channels. Stanley EF, et al. **Nature** 1997 Jan 23;385(6614):340–3
Crosstalk between G proteins and protein kinase C mediated by the calcium channel alpha1 subunit [see comments] Zamponi GW, et al. **Nature** 1997 Jan 30;385(6615):442–6 . Comment in: Nature 1997 Jan 30;385(6615):394–5, 397.
Modulation of L–type Ca current by denopamine, a nonparenteral partial beta 1 stimulant, in rabbit ventricular cells. Habuchi Y, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):437–43
The contribution of different types of calcium channels to electrically–evoked adenosine release from rat hippocampal slices. Latini S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):250–5
Characterization of a voltage–dependent L–type calcium channel from rabbit and turtle brain. Costa B, et al. **Neurochem Res** 1996 May;21(5):537–40
Alteration of ryanodine receptor in the hippocampus CA1 after hemispheric cerebral ischemia. Nozaki H, et al. **Neurochem Res** 1996 Aug;21(8):975–82
Decreased inositol (1,4,5)–trisphosphate receptor levels in Alzheimer's disease cerebral cortex: selectivity of changes and possible correlation to pathological severity. Haug LS, et al. **Neurodegeneration** 1996 Jun;5(2):169–76
Amyotrophic lateral sclerosis immunoglobulins are ineffective in altering calcium influx through presynaptic voltage–sensitive calcium channels. Thomas MM, et al. **Neurol Res** 1997 Apr;19(2):129–34
Requirement for the PDZ domain protein, INAD, for localization of the TRP store–operated channel to a signaling complex. Chevesich J, et al. **Neuron** 1997 Jan; 18(1):95–105
cAMP–dependent regulation of cardiac L–type Ca2+ channels requires membrane targeting of PKA and phosphorylation of channel subunits. Gao T, et al. **Neuron** 1997 Jul;19(1):185–96
Dendritic Ca2+ channels characterized by recordings from isolated hippocampal dendritic segments. Kavalali ET, et al. **Neuron** 1997 Apr;18(4):651–63
Neuropeptide FF reverses the effect of mu–opioid on Ca2+ channels in rat spinal ganglion neurones. Rebeyrolles S, et al. **Neuroreport** 1996 Nov 25;7(18):2979–81
Inhibition of N–type calcium currents by lamotrigine in rat amygdalar neurones. Wang SJ, et al. **Neuroreport** 1996 Nov 25;7(18):3037–40
Modulation of Ca2+ channels by activation of adenosine A1 receptors in rat striatal glutamatergic nerve terminals. Ambrósio AF, et al. **Neurosci Lett** 1996 Dec 20; 220(3):163–6
Polygodial induces inositol phosphate turnover in human neuroblastoma SH–SY5Y cells. Forsby A, et al. **Neurosci Lett** 1996 Oct 11;217(1):50–4
A comparative study of L–type voltage sensitive Ca2+ channels in rat brain regions and cultured neuronal cells. Hirota K, et al. **Neurosci Lett** 1997 Feb 28;223(3):169–72
Oxidative stress affects the selective ion permeability of voltage–sensitive Ca2+ channels in cultured retinal cells. Agostinho P, et al. **Neurosci Res** 1997 Apr;27(4):323–34
Calcium currents in pyramidal CA1 neurons in vitro after kindling epileptogenesis in the hippocampus of the rat. Faas GC, et al. **Neuroscience** 1996 Nov;75(1):57–67
Evidence for colocalization of calcineurin and calcium channels in dorsal root ganglion neurons. Lukyanetz EA. **Neuroscience** 1997 Jun;78(3):625–8
Dependence of photoreceptor glutamate release on a dihydropyridine–sensitive calcium channel. Schmitz Y, et al. **Neuroscience** 1997 Jun;78(4):1209–16
The expression of voltage–dependent calcium channel beta

subunits in human cerebellum. Volsen SG, et al. **Neuroscience** 1997 Sep;80(1):161–74

Corticosteroid effects on sodium and calcium currents in acutely dissociated rat CA1 hippocampal neurons. Werkman TR, et al. **Neuroscience** 1997 Jun;78(3):663–72

Synthesis, radiosynthesis, and biological evaluation of fluorinated thienylcyclohexyl piperidine derivatives as potential radiotracers for the NMDA receptor–linked calcium ionophore. Ouyang X, et al. **Nucl Med Biol** 1996 Apr;23(3):315–24

IP3 receptor–ligand. 2: Synthesis and molecular mechanics calculation of adenophostin A. Hotoda H, et al. **Nucleic Acids Symp Ser** 1995;(34):163–4

Developmental variation of the permeability to Ca2+ of AMPA receptors in presumed hilar glial precursor cells. Backus KH, et al. **Pflugers Arch** 1995 Dec;431(2):244–52

Functional role of low–voltage–activated dihydropyridine–sensitive Ca channels during the action potential in adult rat sensory neurones. Ferroni A, et al. **Pflugers Arch** 1996 Apr;431(6):954–63

Regulation of the purified Ca2+ release channel/ryanodine receptor complex of skeletal muscle sarcoplasmic reticulum by luminal calcium. Herrmann–Frank A, et al. **Pflugers Arch** 1996 May;432(1):155–7

Depolarization shifts the voltage dependence of cardiac sodium channel and calcium channel gating charge movements. Josephson IR. **Pflugers Arch** 1996 Apr; 431(6):895–904

Run–down of the cardiac Ca2+ channel: characterization and restoration of channel activity by cytoplasmic factors. Kameyama A, et al. **Pflugers Arch** 1997 Mar;433(5):547–56

Ca2+ entry and vasoconstriction during osmotic swelling of vascular smooth muscle cells. Lang F, et al. **Pflugers Arch** 1995 Dec;431(2):253–8

Two distinct receptors operate the cAMP cascade to up–regulate L–type Ca channels. Lukyanetz EA, et al. **Pflugers Arch** 1996 Jun;432(2):174–81

Regulation of dihydropyridine receptor and ryanodine receptor gene expression in regenerating skeletal muscle. Péréon Y, et al. **Pflugers Arch** 1997 Jan;433(3):221–9

Mu and delta opioid receptor activation inhibits omega–conotoxin–sensitive calcium channels in a voltage– and time–dependent mode in the human neuroblastoma cell line SH–SY5Y. Toselli M, et al. **Pflugers Arch** 1997 Mar; 433(5):587–96

ATP regulates cardiac Ca2+ channel activity via a mechanism independent of protein phosphorylation. Yazawa K, et al. **Pflugers Arch** 1997 Mar;433(5):557–62

The pharmacology of ryanodine and related compounds. Sutko JL, et al. **Pharmacol Rev** 1997 Mar;49(1):53–98 (196 ref.)

The sarcoplasmic reticulum Ca2+ channel/ryanodine receptor: modulation by endogenous effectors, drugs and disease states. Zucchi R, et al. **Pharmacol Rev** 1997 Mar; 49(1):1–51 (759 ref.)

Regulation of cytosolic calcium levels in vascular smooth muscle. Orallo F. **Pharmacol Ther** 1996;69(3):153–71 (267 ref.)

Radioligand binding studies on some dihydropyridine analogues as probes of the dihydropyridine receptor. Kettmann V, et al. **Pharmazie** 1996 Oct;51(10):747–50

On the molecular basis and regulation of cellular capacitative calcium entry: roles for Trp proteins. Birnbaumer L, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15195–202 (63 ref.)

Lambert–Eaton sera reduce low–voltage and high–voltage activated Ca2+ currents in murine dorsal root ganglion neurons. García KD, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9264–9

Molecular determinants of inactivation and G protein modulation in the intracellular loop connecting domains I and II of the calcium channel alpha1A subunit. Herlitze S, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1512–6

Modulation by neurotransmitters of catecholamine secretion from sympathetic ganglion neurons detected by amperometry. Koh DS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1506–11

Direct interaction of gbetagamma with a C–terminal gbetagamma–binding domain of the Ca2+ channel alpha1 subunit is responsible for channel inhibition by G protein–coupled receptors. Qin N, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8866–71

Interaction of the synprint site of N–type Ca2+ channels with the C2B domain of synaptotagmin I. Sheng ZH, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5405–10

A Xenopus oocyte beta subunit: evidence for a role in the assembly/expression of voltage–gated calcium channels that is separate from its role as a regulatory subunit. Tareilus E, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1703–8

G alpha(o) is necessary for muscarinic regulation of Ca2+ channels in mouse heart. Valenzuela D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1727–32

Polyunsaturated fatty acids modulate sodium and calcium currents in CA1 neurons. Vreugdenhil M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12559–63

Suppression of voltage–gated L–type Ca2+ currents by polyunsaturated fatty acids in adult and neonatal rat ventricular myocytes. Xiao YF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4182–7

Beta 2–adrenergic receptor regulation of the cardiac L–type Ca2+ channel coexpressed in a fibroblast cell line. Masaki H, et al. **Receptor** 1995;5(4):219–31

Isoform expression of the voltage–dependent calcium channel alpha 1E. Marubio LM, et al. **Receptors Channels** 1996; 4(4):243–51

Reconstitution of the skeletal muscle dihydropyridine receptor. Functional interaction among alpha 1, beta, gamma and alpha 2 delta subunits. Suh–Kim H, et al. **Receptors Channels** 1996;4(4):217–25

Stimulation of Ca2+ current by phorbol esters in rat myometrial cells is dependent on intracellular Ca2+ concentration. Kusaka M, et al. **Reprod Fertil Dev** 1996; 8(8):1147–52

cAMP–dependent modulation of L–type calcium currents in mouse diaphragmatic cells. Fratacci MD, et al. **Respir Physiol** 1996 Apr–May;104(1):1–9

Presynaptic calcium current modulation by a metabotropic glutamate receptor. Takahashi T, et al. **Science** 1996 Oct 25;274(5287):594–7

Effects of drugs interfering with sodium channels and calcium channels on the release of endogenous dopamine from superfused substantia nigra slices. Elverfors A, et al. **Synapse** 1997 Aug;26(4):359–69

G protein interaction with K+ and Ca2+ channels. Schneider T, et al. **Trends Pharmacol Sci** 1997 Jan; 18(1):8–11 (41 ref.)

Fast and slow gating types of SR ryanodine receptor/channel purified from canine latissimus dorsi muscle. Shin JH, et al. **Yonsei Med J** 1996 Feb;37(1):72–80

Meiosis reinitiation in Ruditapes philippinarum (Mollusca): involvement of L–calcium channels in the release of metaphase I block. Moreau M, et al. **Zygote** 1996 May; 4(2):151–7

[Regulation of cardiac calcium current by cGMP/NO route] Fischmeister R, et al. **C R Seances Soc Biol Fil** 1996; 190(2–3):181–206 (221 ref.) (Eng. Abstr.) **(Fre)**

[Molecular aspects of the diversity of cardiovascular calcium channels] Nargeot J. **C R Seances Soc Biol Fil** 1996; 190(2–3):219–35 (33 ref.) (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Pharmacological and functional properties of voltage–independent Ca2+ channels. Clementi E, et al. **Cell Calcium** 1996 Apr;19(4):269–79 (152 ref.)

PHYSIOLOGY

Role of intracellular calcium stores in contrast medium–induced renal vasoconstriction. Drescher P, et al. **Acad Radiol** 1996 Nov;3(11):912–8

Is calcium accumulation post–injury an indicator of cell damage? Linde R, et al. **Acta Neurochir Suppl (Wien)** 1996; 66:15–20

Effects of hypoxia on the intercellular channel activity of cultured glomus cells. Abudara V, et al. **Adv Exp Med Biol** 1996;410:151–8 (18 ref.)

Modulation of voltage–gated Ca2+ channels by O2 tension. Significance for arterial oxygen chemoreception. Franco–Obregón A, et al. **Adv Exp Med Biol** 1996; 410:97–103 (283 ref.)

Electrophysiological and electropharmological actions of taurine on cardiac cells. Satoh H. **Adv Exp Med Biol** 1996; 403:285–96

Effects of prenatal ethanol exposure on voltage–dependent calcium entry into neonatal whole brain–dissociated neurons. Lee YH, et al. **Alcohol Clin Exp Res** 1996 Aug; 20(5):921–8

Human fetal membranes inhibit calcium L–channel activated uterine contractions. Collins PL, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1173–9

Ca(2+)–dependent outward currents in myocytes from epicardial border zone of 5–day infarcted canine heart. Aggarwal R, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1386–94

PKC–independent inhibition of cardiac L–type Ca2+ channel current by phorbol esters. Asai T, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H620–7

Influence of L–type Ca channel alpha 2/delta–subunit on ionic and gating current in transiently transfected HEK 293 cells. Bangalore R, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1521–8

Ca2+ transients in embryonic chick heart: contributions from Ca2+ channels and the sarcoplasmic reticulum. Brotto MA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H518–25

Ca2+ role in myogenic and neurogenic activities of canine ileum circular muscle. Cayabyab FS, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1053–66

Polarized distribution of L–type calcium channels in early sea urchin embryos. Dale B, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 1):C822–5

A voltage–operable current is involved in Ca2+ entry in human lymphocytes whereas ICRAC has no apparent role. Densmore JJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1494–503

Actions of sulfhydryl reagents on single ryanodine receptor Ca(2+)–release channels from sheep myocardium. Eager KR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1908–18

High permeation of L–type Ca2+ channels at physiological [Ca2+]: homogeneity and dependence on the alpha 1–subunit. Gollasch M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C842–50

Modulation of electrical heterogeneity by compensated hypertrophy in rat left ventricle. Gómez AM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1078–86

Regulation by acetylcholine of Ca2+ current in rabbit atrioventricular node cells. Habuchi Y, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2274–82

Inhibition by external Cd2+ of Na/Ca exchange and L–type Ca channel in rabbit ventricular myocytes. Hobai IA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2164–72

A critical evaluation of resting intracellular free calcium regulation in dystrophic mdx muscle. Hopf FW, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1325–39

T–type and L–type Ca2+ currents in canine bronchial smooth muscle: characterization and physiological roles. Janssen LJ. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1757–65

Properties of three COOH–terminal splice variants of a human cardiac L–type Ca2+–channel alpha1–subunit. Klöckner U, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1372–81

cADP–ribose releases Ca2+ from cardiac sarcoplasmic reticulum independently of ryanodine receptor. Lahouratate P, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1082–9

Properties of human atrial ICa at physiological temperatures and relevance to action potential. Li GR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H227–35

1,25 (OH)2D3 enhances PTH–induced Ca2+ transients in preosteoblasts by activating L–type Ca2+ channels. Li W, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E599–605

ARF–independent inhibition of the carbachol–induced contractions by brefeldin A in intestinal smooth muscle. Loirand G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C816–21

Different contributions of L– and Q–type Ca2+ channels to Ca2+ signals and secretion in chromaffin cell subtypes. Lomax RB, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C476–84

Dependence of Ca2+ channel currents on endogenous and exogenous sources of ATP in portal vein smooth muscle. Lorenz JN, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H987–94

Angiotensin II stimulates T–type Ca2+ channel currents via activation of a G protein, Gi. Lu HK, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1340–9

Modulation of high– and low–voltage–activated calcium currents in smooth muscle by calcium. McCarron JG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C883–92

Depolarization–stimulated cholecystokinin secretion is mediated by L–type calcium channels in STC–1 cells. Mangel AW, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G287–90

Intracellular calcium–release channels: regulators of cell life and death. Marks AR. **Am J Physiol** 1997 Feb;272(2 Pt 2):H597–605 (103 ref.)

Functional evidence for L–type Ca2+ channels controlling ANG II–induced adrenal catecholamine release in vivo. Martineau D, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1713–9

Phospholamban deficiency alters inactivation kinetics of L–type Ca2+ channels in mouse ventricular myocytes. Masaki H, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H606–12

Myogenic constriction of human coronary arterioles. Miller FJ Jr, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H257–64

Endurance training does not affect intrinsic calcium current characteristics in rat myocardium. Mokelke EA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1193–7

Possible role of T–type Ca2+ channels in L–NNA vasoconstriction of hypertensive rat lungs. Muramatsu M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2616–21

Osmo–mechanically sensitive phosphatidylinositol signaling regulates a Ca2+ influx channel in renal epithelial cells. O'Neil RG, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F120–8

Identification of a second region of the beta–subunit involved in regulation of calcium channel inactivation. Qin N, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1539–45

L–type calcium channels regulate gastrin release from human antral G cells. Ray JM, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G281–8

Temperature modulation of calcium channel function in GH3 cells. Rosen AD. **Am J Physiol** 1996 Sep;271(3 Pt 1):C863–8

A dihydropyridine–sensitive T–type Ca2+ current is the main Ca2+ current carrier in mouse primary spermatocytes. Santi CM, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 1):C1583–93

Nitric oxide donors inhibit spontaneous depolarizations by L–type Ca2+ currents in alveolar epithelial cells. Schobersberger W, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1092–7

Involvement of ceramide in inhibitory effect of IL–1 beta on L–type Ca2+ current in adult rat ventricular myocytes. Schreur KD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2591–8

Ca2+ channels mediate protein tyrosine kinase activation by endothelin–1. Simonson MS, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F790–7

Mechanisms of inactivation of L–type calcium channels in human atrial myocytes. Sun H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1625–35

Enhancement of Ca2+ currents by GHRH and its relation to PKA and [Ca2+]i in human GH–secreting adenoma cells. Takei T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E801–7

Ryanodine receptor dysfunction in porcine stunned myocardium. Valdivia C, et al. **Am J Physiol** 1997 Aug; 273(2 Pt 2):H796–804

Inhibition of the voltage–dependent calcium current by extracellular ATP in hamster ventricular cardiomyocytes. Von zur Mühlen F, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H250–6

Sarcolemmal Ca influx through L–type Ca channels in ventricular myocytes of a teleost fish. Vornanen M. **Am J Physiol** 1997 May;272(5 Pt 2):R1432–40

Modulation of maxi–K+ channels by voltage–dependent Ca2+ channels and methacholine in single airway myocytes. Wang YX, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1151–9

Mechanism of enhancement of slow delayed rectifier current by extracellular sulfhydryl modification. Yao JA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H208–19

Regulation of Ca2+ channel currents by intracellular ATP in smooth muscle cells of rat mesenteric artery. Yokoshiki H, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H814–9

Structure and modulation of Na+ and Ca2+ channels. Catterall WA. **Ann N Y Acad Sci** 1993 Dec 20;707:1–19 (79 ref.)

Patch–clamp study of developmental changes in voltage–dependent ion channels of mouse skeletal muscle fibers. Gonoi T. **Ann N Y Acad Sci** 1993 Dec 20;707:352–5

Ion channels and calcium signaling in mast cells. Hoth M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:198–209 (49 ref.)

Molecular aspects of ion permeation through channels. Imoto K. **Ann N Y Acad Sci** 1993 Dec 20;707:38–50 (28 ref.)

L–type calcium channel regulates depolarization–induced survival of rat superior cervical ganglion cells in vitro. Koike T, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:356–8

Structure and function of inositol 1,4,5–trisphosphate receptor. Mikoshiba K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:178–97 (65 ref.)

Developmental changes and modulation through G–proteins of the hyperpolarization–activated inward current in embryonic chick heart. Satoh H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:413–6

Dihydropyridine–sensitive calcium current mediates neurotransmitter release from retinal bipolar cells. Tachibana M, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:359–61

Primary structure and expression from cDNAs of the ryanodine receptor. Takeshima H. **Ann N Y Acad Sci** 1993 Dec 20;707:165–77

Structure and function of voltage–dependent calcium channels from muscle. Tanabe T, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:81–6 (40 ref.)

Action and binding of calcium channel blockers on the putative calcium channel of synaptosomal plasma membrane from the electric organ of Narke japonica. Tokumaru H, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:410–2

Diversity of calcium channel subtypes in presynaptic terminals of the chick ciliary ganglion. Yawo H. **Ann N Y Acad Sci** 1993 Dec 20;707:379–81

Cyclic AMP–dependent phosphorylation and regulation of the cardiac dihydropyridine–sensitive Ca channel. Yoshida A, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:365–7

Voltage–dependent block of L–type Ca channels by caffeine in smooth myocytes of the guinea pig urinary bladder. Yoshino M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:362–4

Lambert–Eaton myasthenic syndrome immunoglobulins react with multiple types of calcium channels in small–cell lung carcinoma. Meriney SD, et al. **Ann Neurol** 1996 Nov; 40(5):739–49

Proteolytic activity in amyotrophic lateral sclerosis IgG preparations [see comments] Nyormoi O. **Ann Neurol** 1996 Nov;40(5):701–6. Comment in: Ann Neurol 1996 Nov;40(5):691–3.

Effect of Lambert–Eaton myasthenic syndrome antibodies on autonomic neurons in the mouse. Waterman SA, et al. **Ann Neurol** 1997 Aug;42(2):147–56

Electrical properties of periglomerular cells in the frog olfactory bulb. Magherini PC, et al. **Arch Ital Biol** 1997 Mar;135(2):195–203

In vitro calcium ion turnover in otoconia of the guinea pig. Takumida M, et al. **Auris Nasus Larynx** 1997 Apr; 24(2):119–24

Intracellular calcium rise through L–type calcium channels, as molecular mechanism for prion protein fragment 106–126–induced astroglial proliferation. Florio T, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):397–405

Activation and inhibition of reconstituted cardiac L–type calcium channels by palmitoyl–L–carnitine. Liu QY, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):252–8

L–type Ca2+ channel–insulin–like growth factor–1 receptor signaling impairment in aging rat skeletal muscle. Renganathan M, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):784–9

Store–activated Ca2+ inflow in Xenopus laevis oocytes: inhibition by primaquine and evaluation of the role of membrane fusion. Gregory RB, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):755–60

A type 2A phosphatase–sensitive phosphorylation site controls modal gating of L–type Ca2+ channels in human vascular smooth–muscle cells. Groschner K, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):513–7

Rapid kinetic measurements of 45Ca2+ mobilization reveal that Ins(2,4,5)P3 is a partial agonist at hepatic InsP3 receptors. Marchant JS, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):573–6

Conformation state of the ryanodine receptor and functional effects of ryanodine on skeletal muscle. Bianchi CP. **Biochem Pharmacol** 1997 Apr 4;53(7):909–12 (30 ref.)

Subconductance states in single–channel activity of skeletal muscle ryanodine receptors after removal of FKBP12. Ahern GP, et al. **Biophys J** 1997 Jan;72(1):146–62

Similarity in calcium channel activity of annexin V and matrix vesicles in planar lipid bilayers. Arispe N, et al. **Biophys J** 1996 Oct;71(4):1764–75

Estimating the number of channels in patch–clamp recordings: application to kinetic analysis of multichannel data from voltage–operated channels. Baumgartner W, et al. **Biophys J** 1997 Mar;72(3):1143–52

Recovery of Ca2+ current, charge movements, and Ca2+ transients in myotubes deficient in dihydropyridine receptor beta 1 subunit transfected with beta 1 cDNA. Beurg M, et al. **Biophys J** 1997 Aug;73(2):807–18

Functional calcium release channel formed by the carboxyl–terminal portion of ryanodine receptor. Bhat MB, et al. **Biophys J** 1997 Sep;73(3):1329–36

Deletion of amino acids 1641–2437 from the foot region of skeletal muscle ryanodine receptor alters the conduction properties of the Ca release channel. Bhat MB, et al. **Biophys J** 1997 Sep;73(3):1320–8

Numerical analysis of ryanodine receptor activation by L–type channel activity in the cardiac muscle diad. Cannell MB, et al. **Biophys J** 1997 Jul;73(1):112–22

Voltage–dependent modulation of single N–Type Ca2+ channel kinetics by receptor agonists in IMR32 cells. Carabelli V, et al. **Biophys J** 1996 May;70(5):2144–54

Permeation through the calcium release channel of cardiac muscle. Chen D, et al. **Biophys J** 1997 Sep;73(3):1337–54

Heterogeneity of Ca2+ gating of skeletal muscle and cardiac ryanodine receptors. Copello JA, et al. **Biophys J** 1997 Jul; 73(1):141–56

Calcium channel block by (–)devapamil is affected by the sequence environment and composition of the phenylalkylamine receptor site. Degtiar VE, et al. **Biophys J** 1997 Jul;73(1):157–67

The S5–S6 linker of repeat I is a critical determinant of L–type Ca2+ channel conductance. Dirksen RT, et al. **Biophys J** 1997 Sep;73(3):1402–9

On the structural basis for ionic selectivity among Na+, K+, and Ca2+ in the voltage–gated sodium channel [see comments] Favre I, et al. **Biophys J** 1996 Dec;71(6):3110–25 . Comment in: Biophys J 1996 Dec;71(6):2916–8.

Chloride–dependent sarcoplasmic reticulum Ca2+ release correlates with increased Ca2+ activation of ryanodine receptors. Fruen BR, et al. **Biophys J** 1996 Nov; 71(5):2522–30

Ryanodine receptor adaptation and Ca2+(–)induced Ca2+ release–dependent Ca2+ oscillations. Keizer J, et al. **Biophys J** 1996 Dec;71(6):3477–87

A realistic model of biphasic calcium transients in electrically nonexcitable cells. Korngreen A, et al. **Biophys J** 1997 Aug; 73(2):659–73

Response of ryanodine receptor channels to Ca2+ steps produced by rapid solution exchange. Laver DR, et al. **Biophys J** 1996 Aug;71(2):732–41

Surface potentials measure ion concentrations near lipid bilayers during rapid solution changes. Laver DR, et al. **Biophys J** 1996 Aug;71(2):722–31

Conductance and permeation of monovalent cations through depletion–activated Ca2+ channels (ICRAC) in Jurkat T cells. Lepple–Wienhues A, et al. **Biophys J** 1996 Aug; 71(2):787–94

Sensing and refilling calcium stores in an excitable cell. Li YX, et al. **Biophys J** 1997 Mar;72(3):1080–91

Purification and characterization of ryanotoxin, a peptide with actions similar to those of ryanodine. Morrissette J, et al. **Biophys J** 1996 Aug;71(2):707–21

Elementary events underlying voltage–dependent G–protein inhibition of N–type calcium channels. Patil PG, et al. **Biophys J** 1996 Nov;71(5):2509–21

Involvement of the calcium inward current in cardiac impulse propagation: induction of unidirectional conduction block by nifedipine and reversal by Bay K 8644. Rohr S, et al. **Biophys J** 1997 Feb;72(2 Pt 1):754–66

Analytical steady–state solution to the rapid buffering approximation near an open Ca2+ channel. Smith GD. **Biophys J** 1996 Dec;71(6):3064–72

Numerical simulation of local calcium movements during L–type calcium channel gating in the cardiac diad. Soeller C, et al. **Biophys J** 1997 Jul;73(1):97–111

"Adaptive" behavior of ligand–gated ion channels: constraints by thermodynamics. Stern MD. **Biophys J** 1996 May; 70(5):2100–9

Measurements of Ca2+ entry and sarcoplasmic reticulum Ca2+ content during the cardiac cycle in guinea pig and rat ventricular myocytes. Terracciano CM, et al. **Biophys J** 1997 Mar;72(3):1319–26

Electrophysiological effects of ryanodine derivatives on the sheep cardiac sarcoplasmic reticulum calcium–release channel. Tinker A, et al. **Biophys J** 1996 May;70(5):2110–9

Rectification of rabbit cardiac ryanodine receptor current by endogenous polyamines. Uehara A, et al. **Biophys J** 1996 Aug;71(2):769–77

Modulation of L–type Ca2+ current by fast and slow Ca2+ buffering in guinea pig ventricular cardiomyocytes. You Y, et al. **Biophys J** 1997 Jan;72(1):175–87

A minimal gating model for the cardiac calcium release channel. Zahradníková A, et al. **Biophys J** 1996 Dec; 71(6):2996–3012

Dihydropyridine receptor–ryanodine receptor interactions in skeletal muscle excitation–contraction coupling. Meissner G, et al. **Biosci Rep** 1995 Oct;15(5):399–408 (53 ref.)

The cardiovascular response to medullary cholinergic and corticoid stimulation is calcium channel dependent in rats. Zhu DN, et al. **Blood Press** 1997 May;6(3):171–9

Expression of voltage–operated Ca2+ channels in rat bone marrow stromal cells in vitro. Preston MR, et al. **Bone** 1996 Aug;19(2):101–6

Endogenous calcium channels in human embryonic kidney (HEK293) cells. Berjukow S, et al. **Br J Pharmacol** 1996 Jun;118(3):748–54

Activation by high potassium of a novel voltage–operated Ca2+ channel in rat spleen. Ko FN, et al. **Br J Pharmacol** 1997 Feb;120(4):565–70

Pharmacological characterization of the receptors involved in the beta–adrenoceptor–mediated stimulation of the L–type Ca2+ current in frog ventricular myocytes. Skeberdis VA, et al. **Br J Pharmacol** 1997 Aug; 121(7):1277–86

Blockade of N–type Ca2+ current by cilnidipine (FRC–8653) in acutely dissociated rat sympathetic neurones. Uneyama H, et al. **Br J Pharmacol** 1997 Sep; 122(1):37–42

Some evidence against the involvement of arachidonic acid in muscarinic suppression of voltage–gated calcium channel current in guinea–pig ileal smooth muscle cells. Unno T, et al. **Br J Pharmacol** 1996 Sep;119(2):213–22

Role of N–, P– and Q–type voltage–gated calcium channels in transmitter release from sympathetic neurones in the mouse isolated vas deferens. Waterman SA. **Br J Pharmacol** 1997 Feb;120(3):393–8

Both high– and low voltage–activated calcium currents contribute to the light–evoked responses of luminosity horizontal cells in the Xenopus retina. Akopian A, et al. **Brain Res** 1997 Jul 11;762(1–2):121–30

The influx of Ca2+ and the release of noradrenaline evoked by the stimulation of presynaptic nicotinic receptors of chick sympathetic neurons in culture are not mediated via L–, N–, or P–type calcium channels. Doležal V, et al. **Brain Res** 1996 Nov 18;740(1–2):75–80

Barium elicits reversal of low–concentration etorphine–induced decrease of potassium conductance in cultures of dissociated dorsal root ganglion neurons. Fan S, et al. **Brain Res** 1997 Apr 18;754(1–2):303–6

G–proteins are involved in riluzole inhibition of high voltage–activated calcium channels in rat dorsal root ganglion neurons. Huang CS, et al. **Brain Res** 1997 Jul 11;762(1–2):235–9

Ca2+ channel currents in type I carotid body cells of normoxic and chronically hypoxic neonatal rats. Peers C, et al. **Brain Res** 1996 Nov 11;739(1–2):251–7

Immunohistochemical and electrophysiological evidence for omega–conotoxin–sensitive calcium channels in unmyelinated C–fibres of biopsied human sural nerve. Quasthoff S, et al. **Brain Res** 1996 Jun 3;723(1–2):29–36

Voltage–sensitive calcium channels mediate calcium entry into cultured mammalian sympathetic neurons following neurite transection. Sattler R, et al. **Brain Res** 1996 May 6;719(1–2):239–46

Identification of calcium channels involved in neuronal injury in rat hippocampal slices subjected to oxygen and glucose deprivation. Small DL, et al. **Brain Res** 1997 Apr 11; 753(2):209–18

Involvement of N– and P/Q– but not L– or T–type voltage–gated calcium channels in ischaemia–induced striatal dopamine release in vitro. Toner CC, et al. **Brain Res** 1997 Feb 14;748(1–2):85–92

Cholecystokinin octapeptide reverses the kappa–opioid–receptor–mediated depression of calcium current in rat dorsal root ganglion neurons. Xu T, et al. **Brain Res** 1996 Aug 19;730(1–2):207–11

Development of HVA and LVA calcium currents in pyramidal CA1 neurons in the hippocampus of the rat. Kortekaas P, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1–2):139–47

Characterization of an L–type calcium channel expressed by human retinal Müller (glial) cells. Puro DG, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):41–8

Use of neurotoxins to study Ca2+ channel functions. Cassola AC, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1759–63 (17 ref.)

Electrophysiological properties of L–type Ca2+ currents in isolated adult mouse ventricular myocytes. Nascimento JH. **Braz J Med Biol Res** 1996 Oct;29(10):1397–405

T–type calcium current is expressed in dedifferentiated adult rat ventricular cells in primary culture. Fares N, et al. **C R Acad Sci III** 1996 Jul;319(7):569–76

Migraines in mice? Hess EJ. **Cell** 1996 Dec 27;87(7):1149–51 (16 ref.)

The store–operated calcium current I(CRAC): nonlinear activation by InsP3 and dissociation from calcium release. Parekh AB, et al. **Cell** 1997 Jun 13;89(6):973–80

Pharmacological and functional properties of voltage–independent Ca2+ channels. Clementi E, et al. **Cell Calcium** 1996 Apr;19(4):269–79 (152 ref.)

Two different store–operated Ca2+ entry pathways in MDCK cells. Dietl P, et al. **Cell Calcium** 1996 Jul; 20(1):11–9

Spontaneous transients of [Ca2+]i depend on external calcium and the activation of L-type voltage-gated calcium channels in a clonal pituitary cell line (AtT-20) of cultured mouse corticotropes. Fiekers JF, et al. **Cell Calcium** 1996 Apr;19(4):327-36

Ca2+ sparks and Ca2+ waves activate different Ca(2+)-dependent ion channels in single myocytes from rat portal vein. Mironneau J, et al. **Cell Calcium** 1996 Aug; 20(2):153-60 (25 ref.)

Spatial domains of Ca2+ signaling in secretory epithelial cells. Thorn P. **Cell Calcium** 1996 Aug;20(2):203-14 (85 ref.)

Cell cycle--dependent expression of L- and T-type Ca2+ currents in rat aortic smooth muscle cells in primary culture. Kuga T, et al. **Circ Res** 1996 Jul;79(1):14-9

Inhibition of L-type Ca2+ channel current in rat ventricular myocytes by terfenadine. Liu S, et al. **Circ Res** 1997 Aug; 81(2):202-10

C2 region-derived peptides of beta-protein kinase C regulate cardiac Ca2+ channels. Zhang ZH, et al. **Circ Res** 1997 May;80(5):720-9

Cobalt-55 positron emission tomography in ischemic stroke. Jansen HM, et al. **Clin Neurol Neurosurg** 1997 Feb; 99(1):6-10

Disruption of the IP3 receptor gene of Drosophila affects larval metamorphosis and ecdysone release. Venkatesh K, et al. **Curr Biol** 1997 Jul 1;7(7):500-9

Diversity and function of presynaptic calcium channels in the brain. Reuter H. **Curr Opin Neurobiol** 1996 Jun; 6(3):331-7 (48 ref.)

The two intracellular Ca2+ release channels, ryanodine receptor and inositol 1,4,5-trisphosphate receptor, play different roles during fertilization in ascidians. Albrieux M, et al. **Dev Biol** 1997 Sep 15;189(2):174-85

Abnormally expressed low-voltage-activated calcium channels in beta-cells from NOD mice and a related clonal cell line. Wang L, et al. **Diabetes** 1996 Dec;45(12):1678-83

Electric field stimulation-induced guinea pig gallbladder contractions: role of calcium channels in acetylcholine release. Parkman HP, et al. **Dig Dis Sci** 1997 Sep; 42(9):1919-25

Voltage-dependent modulation of T-type calcium channels by protein tyrosine phosphorylation. Arnoult C, et al. **EMBO J** 1997 Apr 1;16(7):1593-9

Calcium channels do not play a role in the steroid response to ACTH IN Y1 adrenocortical cells. Coyne MD, et al. **Endocr Res** 1996 Nov;22(4):551-6

The role of voltage-dependent calcium channels in angiotensin-stimulated glomerulosa cells. Spät A, et al. **Endocr Res** 1996 Nov;22(4):569-76

T-type calcium channels facilitate insulin secretion by enhancing general excitability in the insulin-secreting beta-cell line, INS-1. Bhattacharjee A, et al. **Endocrinology** 1997 Sep;138(9):3735-40

Insulin and insulin-like growth factor-I inhibit the L-type calcium channel current in rat pinealocytes. Chik CL, et al. **Endocrinology** 1997 May;138(5):2033-42

Distinct functions of T- and L-type calcium channels during activation of bovine adrenal glomerulosa cells. Rossier MF, et al. **Endocrinology** 1996 Nov;137(11):4817-26

Expression of ryanodine receptors in the pituitary gland: evidence for a role in gonadotropin-releasing hormone signaling. Sundaresan S, et al. **Endocrinology** 1997 May; 138(5):2056-65

GABAA inhibition controls the calcium flows during NMDA-dependent epileptiform activity in human epileptogenic neocortex. Louvel J, et al. **Epilepsy Res Suppl** 1996;12:293-300

Altered calcium homeostasis in the rat cochlear duct and endogenous corticosteroid insufficiency. Ma YL, et al. **Eur Arch Otorhinolaryngol** 1997;254(4):165-8

The functions of two species of calcium channel in cardiac muscle excitation-contraction coupling. Williams AJ. **Eur Heart J** 1997 Jan;18 Suppl A:A27-35 (50 ref.)

Properties of cloned rat alpha1A calcium channels transiently expressed in the COS-7 cell line. Berrow NS, et al. **Eur J Neurosci** 1997 Apr;9(4):739-48

Importance of the different beta subunits in the membrane expression of the alpha1A and alpha2 calcium channel subunits: studies using a depolarization-sensitive alpha1A antibody. Brice NL, et al. **Eur J Neurosci** 1997 Apr; 9(4):749-59

Multiple types of Ca2+ channels in mouse motor nerve terminals. Lin MJ, et al. **Eur J Neurosci** 1997 Apr; 9(4):817-23

Different routes of Ca2+ influx in NMDA-mediated generation of nitric oxide and arachidonic acid. Rodriguez-Alvarez J, et al. **Eur J Neurosci** 1997 Apr; 9(4):867-70

Development of G protein-mediated Ca2+ channel regulation in mouse embryonic stem cell-derived neurons. Strübing C, et al. **Eur J Neurosci** 1997 Apr;9(4):824-32

Time course of Ca(2+)-dependent K+ and Cl- currents in single smooth muscle cells of guinea-pig trachea. Henmi S, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):227-36

ATP-regulated K+ channel and cytosolic Ca2+ mobilization in cultured rat spinal neurons. Ikeuchi Y, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):163-9

Lamotrigine inhibits Ca2+ currents in cortical neurons: functional implications. Stefani A, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):113-6

Attenuation of high-voltage-activated Ca2+ current run-down in rat hippocampal CA1 pyramidal cells by NaF. Breakwell NA, et al. **Exp Brain Res** 1995;106(3):505-8

Regulation of L-type calcium channels by protein tyrosine kinase and protein kinase C in cultured rat and human retinal pigment epithelial cells. Strauss O, et al. **FASEB J** 1997 Sep;11(11):859-67

Evidence for a role of C-terminal amino acid residues in skeletal muscle Ca2+ release channel (ryanodine receptor) function. Gao L, et al. **FEBS Lett** 1997 Jul 21;412(1):223-6

Reciprocal control of the conformational state of the sarcoplasmic reticulum calcium channel protein by polarization and depolarization in the transverse tubule. Ikemoto N, et al. **FEBS Lett** 1996 Oct 7;394(3):330-4

Calcium mediates the activation of the inhibitory current induced by odorants in toad olfactory receptor neurons. Morales B, et al. **FEBS Lett** 1997 Feb 3;402(2-3):259-64

Synaptotagmin restores kinetic properties of a syntaxin-associated N-type voltage sensitive calcium channel. Wiser O, et al. **FEBS Lett** 1997 Mar 10; 404(2-3):203-7

Primary structure and synthesis of Imperatoxin A (IpTx(a)), a peptide activator of Ca2+ release channels/ryanodine receptors. Zamudio FZ, et al. **FEBS Lett** 1997 Apr 1; 405(3):385-9

Electrophysiological properties of human carcinoid cells of the gut. Glassmeier G, et al. **Gastroenterology** 1997 Jul; 113(1):90-100

Regional difference in sympathetic neurotransmitter- and Ca2+ channel-mediated responses in rat vas deferens. Matsuki N, et al. **Gen Pharmacol** 1996 Jun;27(4):689-93

Structural implications in the function of L-type voltage-dependent calcium channels. Krizanova O. **Gen Physiol Biophys** 1996 Apr;15(2):79-87 (35 ref.)

Beta-adrenergic regulation of voltage-dependent calcium currents in cultured skeletal myocytes of the frog Rana temporaria. Lukyanenko V, et al. **Gen Physiol Biophys** 1995 Dec;14(6):515-23

Effects of haloperidol and chlorpromazine on smooth muscle contractility, platelet aggregation and neuronal calcium current. Prokopenko RA, et al. **Gen Physiol Biophys** 1995 Aug;14(4):349-57

Control of Ca2+ homeostasis in neuronal cells. Račay P, et al. **Gen Physiol Biophys** 1996 Jun;15(3):193-210 (92 ref.)

Triadic Ca2+ modulates charge movement in skeletal muscle. Stroffekova K, et al. **Gen Physiol Biophys** 1997 Mar;16(1):59-77

Identified glial cells in the early postnatal mouse hippocampus display different types of Ca2+ currents. Akopian G, et al. **Glia** 1996 Jul;17(3):181-94

Making waves: regulation of inositol trisphosphate receptors and propagation of calcium signals in the liver. Joseph SK. **Hepatology** 1997 Sep;26(3):799-801

Dendritic electrogenesis in rat hippocampal CA1 pyramidal neurons: functional aspects of Na+ and Ca2+ currents in apical dendrites. Andreasen M, et al. **Hippocampus** 1996; 6(1):79-95

Effects of age on Ca2+ currents in small mesenteric artery myocytes from Wistar-Kyoto and spontaneously hypertensive rats. Lozinskaya IM, et al. **Hypertension** 1997 Jun;29(6):1329-36

Structural and functional diversity of voltage-activated calcium channels. De Waard M, et al. **Ion Channels** 1996; 4:41-87 (163 ref.)

Cardiac contractility: modulation of myofibrillar calcium sensitivity by beta-adrenergic stimulation. Kögler H, et al. **Isr J Med Sci** 1997 Jan;33(1):1-7 (32 ref.)

Molecular properties of sodium and calcium channels. Catterall WA. **J Bioenerg Biomembr** 1996 Jun;28(3):219-30 (63 ref.)

Molecular studies on the voltage dependence of dihydropyridine action on L-type Ca2+ channels. Critical involvement of tyrosine residues in motif IIIS6 and IVS6. Bodi I, et al. **J Biol Chem** 1997 Oct 3;272(40):24952-60

Inositol 1,4,5-trisphosphate and calcium regulate the calcium channel function of the hepatic inositol 1,4,5-trisphosphate receptor. Dufour JF, et al. **J Biol Chem** 1997 Jan 31; 272(5):2675-81

Motif III S5 of L-type calcium channels is involved in the dihydropyridine binding site. A combined radioligand binding and electrophysiological study. He M, et al. **J Biol Chem** 1997 Jan 31;272(5):2629-33

A capacitative calcium current in cultured skeletal muscle cells is mediated by the calcium-specific leak channel and inhibited by dihydropyridine compounds. Hopf FW, et al. **J Biol Chem** 1996 Sep 13;271(37):22358-67

Depletion of intracellular calcium stores activates a calcium conducting nonselective cation current in mouse pancreatic acinar cells. Krause E, et al. **J Biol Chem** 1996 Dec 20; 271(51):32523-8

Insulinotropic glucagon-like peptide-1-mediated activation of non-selective cation currents in insulinoma cells is mimicked by maitotoxin. Leech CA, et al. **J Biol Chem** 1997 Jul 18;272(29):17987-93

Structure-function relationships of omega-conotoxin GVIA. Synthesis, structure, calcium channel binding, and functional assay of alanine-substituted analogues. Lew MJ, et al. **J Biol Chem** 1997 May 2;272(18):12014-23

Modulation of cardiac ryanodine receptors by sorcin. Lokuta AJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25333-8

The mechanism of inhibition of ryanodine receptor channels by imperatoxin I, a heterodimeric protein from the scorpion Pandinus imperator. Zamudio FZ, et al. **J Biol Chem** 1997 May 2;272(18):11886-94

Role of malignant hyperthermia domain in the regulation of Ca2+ release channel (ryanodine receptor) of skeletal muscle sarcoplasmic reticulum. Zorzato F, et al. **J Biol Chem** 1996 Sep 13;271(37):22759-63

Different mechanisms are involved in intracellular calcium increase by insulin-like growth factors 1 and 2 in articular chondrocytes: voltage-gated calcium channels, and/or phospholipase C coupled to a pertussis-sensitive G-protein. Poiraudeau S, et al. **J Cell Biochem** 1997 Mar 1;64(3):414-22

Functional impairment of renal afferent arteriolar voltage-gated calcium channels in rats with diabetes mellitus. Carmines PK, et al. **J Clin Invest** 1996 Dec 1; 98(11):2564-71

Toxic effects of antimalarial drugs in Paramecium: role of calcium channels. Nori VS, et al. **J Comp Physiol [A]** 1997 May;180(5):473-80

Active calcium ion transport Xenopus laevis skin. Guirguis SM, et al. **J Comp Physiol [B]** 1997 Jul;167(5):328-34

Characterization of the Ca2+ current in isolated terminals of crustacean peptidergic neurons. Richmond JE, et al. **J Exp Biol** 1996 Sep;199 (Pt 9):2053-9

Cross-signaling between L-type Ca2+ channels and ryanodine receptors in rat ventricular myocytes. Adachi-Akahane S, et al. **J Gen Physiol** 1996 Nov; 108(5):435-54

A dihydropyridine-sensitive voltage-dependent calcium channel in the sarcolemmal membrane of crustacean muscle. Erxleben C, et al. **J Gen Physiol** 1997 Mar; 109(3):313-26

L-type Ca2+ channels access multiple open states to produce two components of Bay K 8644-dependent current in GH3 cells. Fass DM, et al. **J Gen Physiol** 1996 Jul; 108(1):13-26

T-type Ca2+ channel lowers the threshold of spike generation in the newt olfactory receptor cell. Kawai F, et al. **J Gen Physiol** 1996 Dec;108(6):525-35

Biophysics of a trespasser, Na+ block of Ca2+ channels. McCleskey EW. **J Gen Physiol** 1997 Jun;109(6):677-80

Effective gating charges per channel in voltage-dependent K+ and Ca2+ channels [see comments] Noceti F, et al. **J Gen Physiol** 1996 Sep;108(3):143-55. Comment in: J Gen Physiol 1996 Sep;108(3):129-32.

Ca2+ currents in cerebral artery smooth muscle cells of rat at physiological Ca2+ concentrations. Rubart M, et al. **J Gen Physiol** 1996 Apr;107(4):459-72

Excitation-calcium release uncoupling in aged single human skeletal muscle fibers. Delbono O, et al. **J Membr Biol** 1995 Dec;148(3):211-22

Hyperpolarization-activated Ca2+-permeable channels in the plasma membrane of tomato cells. Gelli A, et al. **J Membr Biol** 1997 Jan 1;155(1):35-45

Transmitter modulation of neuronal calcium channels. Jones SW, et al. **J Membr Biol** 1997 Jan 1;155(1):1-10 (97 ref.)

Evidence that calcium release-activated current mediates the biphasic electrical activity of mouse pancreatic beta-cells. Mears D, et al. **J Membr Biol** 1997 Jan 1;155(1):47-59

Dihydropyridine receptor-ryanodine receptor uncoupling in aged skeletal muscle. Renganathan M, et al. **J Membr Biol** 1997 Jan 1;157(3):247-53

Hyperpolarization- and depolarization-activated Ca2+ currents in Paramecium trigger behavioral changes and cGMP formation independently. Schultz JE, et al. **J Membr Biol** 1997 Apr 1;156(3):251-9

A9 fibroblasts transfected with the m3 muscarinic receptor clone express a Ca2+ channel activated by carbachol, GTP and GDP. Singer-Lahat D, et al. **J Membr Biol** 1997 Sep 1;159(1):21-8

Reduction of I(Ca,L) and I(to1) density in hypertrophied right ventricular cells by simulated high altitude in adult rats. Chouabe C, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):193-206

Cyclic nucleotides regulate the activity of L-type calcium channels in smooth muscle cells from rat portal vein. Liu H, et al. **J Mol Cell Cardiol** 1997 May;29(5):1411-21

Endothelin-1 and vasopressin activate Ca(2+)-permeable non-selective cation channels in aortic smooth muscle cells: mechanism of receptor-mediated Ca2+ influx. Nakajima T, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):707-22

Inhibition of L-type calcium current in rat ventricular cells by the tyrosine kinase inhibitor, genistein and its inactive analog, daidzein. Yokoshiki H, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):807-14

L-type calcium current activation in cultured human myotubes. Sipos I, et al. **J Muscle Res Cell Motil** 1997 Jun;18(3):353-67

Analysis of spontaneous electrical activity in cerebellar Purkinje cells acutely isolated from postnatal rats. Nam SC, et al. **J Neurobiol** 1997 Jul;33(1):18-32

Na+ and Ca2+ channel expression in cultured newt retinal pigment epithelial cells: comparison with neuronal types of ion channels. Sakai H, et al. **J Neurobiol** 1997 Apr; 32(4):377-90

Alpha 1D L-type Ca(2+)-channel currents: inhibition by a beta-adrenergic agonist and pituitary adenylate cyclase-activating polypeptide (PACAP) in rat pinealocytes. Chik CL, et al. **J Neurochem** 1997 Mar; 68(3):1078-87

Depolarization and activation of dihydropyridine-sensitive Ca2+ channels stimulate inositol phosphate accumulation in photoreceptor-enriched chick retinal cell cultures. Gan J, et al. **J Neurochem** 1997 Jun;68(6):2300-7

CALCIUM CHANNELS

Novel omega-conotoxins block dihydropyridine-insensitive high voltage-activated calcium channels in molluscan neurons. Kits KS, et al. **J Neurochem** 1996 Nov; 67(5):2155–63

The amyloid beta-protein of Alzheimer's disease increases acetylcholinesterase expression by increasing intracellular calcium in embryonal carcinoma P19 cells. Sberna G, et al. **J Neurochem** 1997 Sep;69(3):1177–84

Amyloid beta protein potentiates Ca2+ influx through L-type voltage-sensitive Ca2+ channels: a possible involvement of free radicals. Ueda K, et al. **J Neurochem** 1997 Jan;68(1):265–71

Synchronized oscillations in the inferior olive are controlled by the hyperpolarization-activated cation current I(h). Bal T, et al. **J Neurophysiol** 1997 Jun;77(6):3145–56

Properties of voltage-activated Ca2+ currents in acutely isolated human hippocampal granule cells. Beck H, et al. **J Neurophysiol** 1997 Mar;77(3):1526–37

Single-domain/bound calcium hypothesis of transmitter release and facilitation. Bertram R, et al. **J Neurophysiol** 1996 May;75(5):1919–31

Two parallel signaling pathways couple 5HT1A receptors to N- and L-type calcium channels in C-like rat dorsal root ganglion cells. Cardenas CG, et al. **J Neurophysiol** 1997 Jun;77(6):3284–96

Adenosine modulation of calcium currents and presynaptic inhibition of GABA release in suprachiasmatic and arcuate nucleus neurons. Chen G, et al. **J Neurophysiol** 1997 Jun; 77(6):3035–47

Contribution of voltage-gated Ca2+ channels to homosynaptic long-term depression in the CA1 region in vitro. Christie BR, et al. **J Neurophysiol** 1997 Mar; 77(3):1651–5

Activation of Ca2+-dependent currents in dorsal root ganglion neurons by metabotropic glutamate receptors and cyclic ADP-ribose precursors. Crawford JH, et ai. **J Neurophysiol** 1997 May;77(5):2573–84

Serotonin modulates voltage-dependent calcium current in Necturus taste cells. Delay RJ, et al. **J Neurophysiol** 1997 May;77(5):2515–24

Amplification of EPSPs by low Ni(2+)- and amiloride-sensitive Ca2+ channels in apical dendrites of rat CA1 pyramidal neurons. Gillessen T, et al. **J Neurophysiol** 1997 Mar;77(3):1639–43

Tetanus-induced sustained potentiation of monosynaptic inhibitory transmission in the rat medulla: evidence for a presynaptic locus. Glaum SR, et al. **J Neurophysiol** 1996 Jul;76(1):30–8

Area postrema voltage-activated calcium currents. Hay M, et al. **J Neurophysiol** 1996 Jan;75(1):133–41

Characterization of a P-type calcium current in a crayfish motoneuron and its selective modulation by impulse activity. Hong SJ, et al. **J Neurophysiol** 1997 Jan; 77(1):76–85

Calcium channel currents in acutely dissociated intracardiac neurons from adult rats. Jeong SW, et al. **J Neurophysiol** 1997 Apr;77(4):1769–78

High-voltage-activated calcium currents in neurons acutely isolated from the ventrobasal nucleus of the rat thalamus. Kammermeier PJ, et al. **J Neurophysiol** 1997 Jan; 77(1):465–75

Activity-dependent ultra-slow inactivation of calcium currents in rat anterior pituitary cells. Keller E, et al. **J Neurophysiol** 1996 Oct;76(4):2157–68

Modulation of high-voltage activated Ca2+ channels in the rat periaqueductal gray neurons by mu-type opioid agonist. Kim CJ, et al. **J Neurophysiol** 1997 Mar;77(3):1418–24

Role of calcium conductances on spike afterpotentials in rat trigeminal motoneurons. Kobayashi M, et al. **J Neurophysiol** 1997 Jun;77(6):3273–83

Serotonergic modulation of a voltage-gated calcium current in parapodial swim muscle from Aplysia brasiliana. Laurienti PJ, et al. **J Neurophysiol** 1997 Mar;77(3):1496–502

Modulation of calcium currents by electrical activity. Li M, et al. **J Neurophysiol** 1996 Oct;76(4):2595–607

Functional role of Ca2+ currents in graded and spike-mediated synaptic transmission between leech heart interneurons. Lu J, et al. **J Neurophysiol** 1997 Apr; 77(4):1779–94

Hyperosmotic regulation of voltage-gated calcium currents in rat anterior pituitary cells. Matzner O, et al. **J Neurophysiol** 1996 May;75(5):1894–900

High-voltage-activated calcium currents in basal forebrain neurons during aging. Murchison D, et al. **J Neurophysiol** 1996 Jul;76(1):158–74

Role of voltage-gated calcium channels in the generation of activity-induced extracellular pH transients in the rat hippocampal slice. Paalasmaa P, et al. **J Neurophysiol** 1996 Jun;75(6):2354–60

Role of potassium and calcium in the generation of cellular bursts in the dentate gyrus. Pan E, et al. **J Neurophysiol** 1997 May;77(5):2293–9

Presynaptic inhibition at excitatory hippocampal synapses: development and role of presynaptic Ca2+ channels. Scholz KP, et al. **J Neurophysiol** 1996 Jul;76(1):39–46

Voltage-dependent facilitation of calcium channels in rat neostriatal neurons. Song WJ, et al. **J Neurophysiol** 1996 Oct;76(4):2290–306

Low-voltage-activated calcium channels in the lamprey locomotor network: simulation and experiment. Tegnér J, et al. **J Neurophysiol** 1997 Apr;77(4):1795–812

Differential sensitivity to intracellular pH among high- and low-threshold Ca2+ currents in isolated rat CA1 neurons [published erratum appears in J Neurophysiol 1997 May;77(5):following table of contents] Tombaugh GC, et al. **J Neurophysiol** 1997 Feb;77(2):639–53

Whole cell calcium currents in acutely isolated olfactory bulb output neurons of the rat. Wang X, et al. **J Neurophysiol** 1996 Mar;75(3):1138–51

Ca2+ currents in central insect neurons: electrophysiological and pharmacological properties. Wicher D, et al. **J Neurophysiol** 1997 Jan;77(1):186–99

Postnatal maturation of rat hypothalamoneurohypophysial neurons: evidence for a developmental decrease in calcium entry during action potentials. Widmer H, et al. **J Neurophysiol** 1997 Jan;77(1):260–71

Dynorphin A-mediated reduction in multiple calcium currents involves a G(o) alpha-subtype G protein in rat primary afferent neurons. Wiley JW, et al. **J Neurophysiol** 1997 Mar;77(3):1338–48

Light-dependent control of calcium in intact rods of the bullfrog Rana catesbeiana. Younger JP, et al. **J Neurophysiol** 1996 Jan;75(1):354–66

Dihydropyridine- and neurotoxin-sensitive and -insensitive calcium currents in acutely dissociated neurons of the rat central amygdala. Yu B, et al. **J Neurophysiol** 1997 Feb; 77(2):690–701

Speed of Ca2+ channel modulation by neurotransmitters in rat sympathetic neurons. Zhou J, et al. **J Neurophysiol** 1997 Apr;77(4):2040–8

Visualization of calcium influx through channels that shape the burst and tonic firing modes of thalamic relay cells. Zhou Q, et al. **J Neurophysiol** 1997 May;77(5):2816–25

Modulation of Ca2+ currents by various G protein-coupled receptors in sympathetic neurons of male rat pelvic ganglia. Zhu Y, et al. **J Neurophysiol** 1997 Aug;78(2):780–9

Multiple channel types contribute to the low-voltage-activated calcium current in hippocampal CA3 pyramidal neurons. Avery RB, et al. **J Neurosci** 1996 Sep 15;16(18):5567–82

The alpha 1E calcium channel exhibits permeation properties similar to low-voltage-activated calcium channels. Bourinet E, et al. **J Neurosci** 1996 Aug 15;16(16):4983–93

Beta-adrenergic stimulation selectively inhibits long-lasting L-type calcium channel facilitation in hippocampal pyramidal neurons. Cloues RK, et al. **J Neurosci** 1997 Sep 1;17(17):6493–503

Comparison of N- and P/Q-type voltage-gated calcium channel current inhibition. Currie KP, et al. **J Neurosci** 1997 Jun 15;17(12):4570–9

Differential localization of voltage-dependent calcium channel alpha1 subunits at the human and rat neuromuscular junction. Day NC, et al. **J Neurosci** 1997 Aug 15;17(16):6226–35

Identification of the single channels that underlie the N-type and L-type calcium currents in bullfrog sympathetic neurons. Elmslie KS. **J Neurosci** 1997 Apr 15;17(8):2658–68

Dissection of functional domains of the voltage-dependent Ca2+ channel alpha2delta subunit. Felix R, et al. **J Neurosci** 1997 Sep 15;17(18):6884–91

Expression and subunit interaction of voltage-dependent Ca2+ channels in PC12 cells. Liu H, et al. **J Neurosci** 1996 Dec 1;16(23):7557–65

The intracellular loop between domains I and II of the B-type calcium channel confers aspects of G-protein sensitivity to the E-type calcium channel. Page KM, et al. **J Neurosci** 1997 Feb 15;17(4):1330–8

Ryanodine-sensitive component of calcium transients evoked by nerve firing at presynaptic nerve terminals. Peng Y. **J Neurosci** 1996 Nov 1;16(21):6703–12

Calcium channel density and hippocampal cell death with age in long-term culture. Porter NM, et al. **J Neurosci** 1997 Jul 15;17(14):5629–39

Nonuniform distribution of Ca2+ channel subtypes on presynaptic terminals of excitatory synapses in hippocampal cultures. Reid CA, et al. **J Neurosci** 1997 Apr 15; 17(8):2738–45

Alteration of Ca2+ dependence of neurotransmitter release by disruption of Ca2+ channel/syntaxin interaction. Rettig J, et al. **J Neurosci** 1997 Sep 1;17(17):6647–56

Contributions of voltage-gated Ca2+ channels in the proximal versus distal dendrites to synaptic integration in prefrontal cortical neurons. Seamans JK, et al. **J Neurosci** 1997 Aug 1;17(15):5936–48

Novel modulatory effect of L-type calcium channels at newly formed neuromuscular junctions. Sugiura Y, et al. **J Neurosci** 1997 Feb 1;17(3):1101–11

Functional diversity of P-type and R-type calcium channels in rat cerebellar neurons. Tottene A, et al. **J Neurosci** 1996 Oct 15;16(20):6353–63

Modulation of high voltage-activated calcium channels by somatostatin in acutely isolated rat amygdaloid neurons. Viana F, et al. **J Neurosci** 1996 Oct 1;16(19):6000–11

Multiple subtypes of voltage-gated calcium channel mediate transmitter release from parasympathetic neurons in the mouse bladder. Waterman SA. **J Neurosci** 1996 Jul 1; 16(13):4155–61

The monomeric G-proteins Rac1 and/or Cdc42 are required for the inhibition of voltage-dependent calcium current by bradykinin. Wilk-Blaszczak MA, et al. **J Neurosci** 1997 Jun 1;17(11):4094–100

Voltage-dependent calcium channels as targets for convulsant and anticonvulsant alkyl-substituted thiobutyrolactones. Gross RA, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):686–94

Epileptic activity prevents synapse formation of hippocampal mossy fibers via L-type calcium channel activation in vitro. Ikegaya Y, et al. **J Pharmacol Exp Ther** 1997 Jan; 280(1):471–6

Adenosine 3',5'-cyclic monophosphate-stimulated Ca++ efflux and acetylcholine release in ileal myenteric plexus are mediated by N-type Ca++ channels: inhibition by the kappa opioid receptor agonist. Kojima Y, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):403–9

Spinal morphine/clonidine antinociceptive synergism: involvement of G proteins and N-type voltage-dependent calcium channels. Wei ZY, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1392–407

The mechanism of calcium channel facilitation in bovine chromaffin cells. Albillos A, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):687–95

Elementary and global aspects of calcium signalling. Berridge MJ. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):290–306 (117 ref.)

Outward currents in smooth muscle cells isolated from sheep mesenteric lymphatics. Cotton KD, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):1–11

Receptors couple to L-type calcium channels via distinct Go proteins in rat neuroendocrine cell lines. Degtiar VE, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):321–33

Silent calcium channels generate excessive tail currents and facilitation of calcium currents in rat skeletal myoballs. Fleig A, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):141–53

Voltage-dependent calcium currents and cytosolic calcium in equine airway myocytes. Fleischmann BK, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):347–58

Activation of L-type calcium channel in twitch skeletal muscle fibres of the frog. Francini F, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):121–40

G-protein modulation of N-type calcium channel gating current in human embryonic kidney cells (HEK 293). Jones LP, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):601–10

Enhancement of ionic current and charge movement by coexpression of calcium channel beta 1A subunit with alpha 1C subunit in a human embryonic kidney cell line. Kamp TJ, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):89–96

Calcium channels involved in synaptic transmission at the mature and regenerating mouse neuromuscular junction. Katz E, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):687–97

High-threshold Ca2+ currents in rat hippocampal interneurones and their selective inhibition by activation of GABA(B) receptors. Lambert NA, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):115–27

Recombinant Ca2+ channels get O2 sensitive. López-Barneo J. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):549

Myogenic contraction by modulation of voltage-dependent calcium currents in isolated rat cerebral arteries. McCarron JG, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):371–9

Delayed autoregulation of the Ca2+ signals resulting from capacitative Ca2+ entry in bovine pulmonary artery endothelial cells. Madge L, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):351–69

Coupling between charge movement and pore opening in vertebrate neuronal alpha 1E calcium channels. Olcese R, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):675–86

Dopamine modulates unitary conductance of single PL-type calcium channels in Roccus chrysops retinal horizontal cells. Pfeiffer-Linn CL, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):607–16

Calcium sparks and excitation-contraction coupling in phospholamban-deficient mouse ventricular myocytes. Santana LF, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):21–9

Reopening of single L-type Ca2+ channels in mouse cerebellar granule cells: dependence on voltage and ion concentration. Slesinger PA, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):335–45

Two types of low-voltage-activated Ca2+ channels in neurones of rat laterodorsal thalamic nucleus. Tarasenko AN, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):77–86

Differential effects of endothelin-1 on basal and isoprenaline-enhanced Ca2+ current in guinea-pig ventricular myocytes. Thomas GP, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):55–65

Cholinergic inhibition of Ca2+ current in guinea-pig gastric and tracheal smooth muscle cells. Wade GR, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):307–19

Role of Q-type Ca2+ channels in vasopressin secretion from neurohypophysial terminals of the rat. Wang G, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):351–63

Presynaptic calcium currents at voltage-clamped excitor and inhibitor nerve terminals of crayfish. Wright SN, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):347–61

Voltage-dependent binding and calcium channel current inhibition by an anti-alpha 1D subunit antibody in rat dorsal root ganglion neurones and guinea-pig myocytes. Wyatt CN, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):307–19

The immunophilin FK506-binding protein modulates Ca2+ release channel closure in rat heart. Xiao RP, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):343–54

Fractional Ca2+ currents through capsaicin- and proton-activated ion channels in rat dorsal root ganglion neurones. Zeilhofer HU, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):67–78

mGluR1 mutant mice as a tool to study calcium signalling

and multiple innervation in the cerebellum. Daniel H, et al. **J Physiol Paris** 1996;90(3–4):171–2
Heterosynaptic long–term depression in the hippocampus. Scanziani M, et al. **J Physiol Paris** 1996;90(3–4):165–6
The L–type Ca2+ channel is involved in microvesicle–mediated glutamate exocytosis from rat pinealocytes. Yamada H, et al. **J Pineal Res** 1996 Oct; 21(3):165–74
Signal–induced Ca2+ oscillations through the regulation of the inositol 1,4,5–trisphosphate–gated Ca2+ channel: an allosteric model. Laurent M, et al. **J Theor Biol** 1997 Jun 7;186(3):307–26
Diminishment of contractions associated with depolarization–evoked activation of Ca2+ channels in diabetic rat aorta. Hattori Y, et al. **J Vasc Res** 1996 Nov–Dec;33(6):454–62
Effects of cAMP and cGMP on L–type calcium channel currents in rat mesenteric artery cells. Taguchi K, et al. **Jpn J Pharmacol** 1997 Jun;74(2):179–86
The intrinsic rhythmicity of spike–burst generation in pancreatic beta–cells and intercellular interaction within an islet. Kitasato H, et al. **Jpn J Physiol** 1996 Oct; 46(5):363–73 (71 ref.)
Interaction between the L–type Ca2+ channel and the Ca(2+)–activated K+ channel in the fluctuating myogenic contraction in the rabbit basilar artery. Omote M, et al. **Jpn J Physiol** 1996 Aug;46(4):353–6
Agonist–induced activation of a non–selective ion current in glomerular endothelial cells. Pavenstädt H, et al. **Kidney Int** 1997 Jul;52(1):157–64
Are dipyridamole (sensitive) calcium channels present in esophageal smooth muscle? Ashrani A, et al. **Life Sci** 1997; 60(26):PL423–30
Effect of different calcium channel blockers on inhibitory junction potentials and slow waves in porcine ileum. Borderies JR, et al. **Life Sci** 1997;60(12):883–92
Muscarinic mechanisms in nerve cells. Brown DA, et al. **Life Sci** 1997;60(13–14):1137–44 (104 ref.)
Role of dihydropyridine sensitive calcium channels in glucose transport in skeletal muscle. Young JC, et al. **Life Sci** 1997; 61(3):335–42
The kinetic characteristics of the L–type calcium channels in cardiocytes of hibernators. 1. Development of a kinetic model. Alekseev AE, et al. **Membr Cell Biol** 1997; 11(1):31–44
Charged amino acids near the pore entrance influence ion–conduction of a human L–type cardiac calcium channel. Bahinski A, et al. **Mol Cell Biochem** 1997 Jan; 166(1–2):125–34
Control of cardiac performance by Ca–turnover. Simurda J, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:5–12 (20 ref.)
Regulation of the slow Ca++ channels of myocardial cells. Sperelakis N, et al. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:85–98 (49 ref.)
Voltage–insensitive Ca2+ channels and Ca2+/calmodulin–dependent protein kinases propagate signals from endothelin–1 receptors to the c–fos promoter. Wang Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5915–23
Role of Drosophila TRP in inositide–mediated Ca2+ entry. Minke B, et al. **Mol Neurobiol** 1996 Apr;12(2):163–80 (83 ref.)
The modulation of calcium currents by the activation of mGluRs. Functional implications. Stefani A, et al. **Mol Neurobiol** 1996 Aug;13(1):81–95 (81 ref.)
Cyclic AMP–independent inhibition of cardiac calcium current by forskolin. Asai T, et al. **Mol Pharmacol** 1996 Nov;50(5):1262–72
Functional coupling of rat group II metabotropic glutamate receptors to an omega–conotoxin GVIA–sensitive calcium channel in human embryonic kidney 293 cells. McCool BA, et al. **Mol Pharmacol** 1996 Oct;50(4):912–22
Voltage–dependent inhibition of Ca2+ channels in GH3 cells by cloned mu– and delta–opioid receptors. Piros ET, et al. **Mol Pharmacol** 1996 Oct;50(4):947–56
Regulation of human neuronal calcium channels by G protein betagamma subunits expressed in human embryonic kidney 293 cells. Shekter LR, et al. **Mol Pharmacol** 1997 Aug; 52(2):282–91
Role for Ca2+ channels in the signal transduction pathway leading to acrosomal exocytosis in human spermatozoa. O'Toole CM, et al. **Mol Reprod Dev** 1996 Oct;45(2):204–11
Calcium channels. Integration hot–spot gets hotter [news; comment] Dunlap K. **Nature** 1997 Jan 30;385(6615):394–5, 397. Comment on: Nature 1997 Jan 30;385(6615):442–6. Comment on: Nature 1997 Jan 30;385(6615):446–50.
Pharmacological differentiation of synergistic contribution of L–type Ca2+ channels and Na+/H+ exchange to the positive inotropic effect of phenylephrine, endothelin–3 and angiotensin II in rabbit ventricular myocardium. Talukder MA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan;355(1):87–96
Cascade of gene expression induced by Ca2+ signals in neurons. Tsuda M. **Neurochem Int** 1996 Nov;29(5):443–51 (49 ref.)
Epidermal growth factor reduces L–type voltage–activated calcium current density in GH4C1 rat pituitary cells. Fu J, et al. **Neuroendocrinology** 1997 Mar;65(3):157–63
Amyotrophic lateral sclerosis immunoglobulins are ineffective in altering calcium influx through presynaptic voltage–sensitive calcium channels. Thomas MM, et al. **Neurol Res** 1997 Apr;19(2):129–34
InsP3 receptor is essential for growth and differentiation but not for vision in Drosophila. Acharya JK, et al. **Neuron** 1997 Jun;18(6):881–7
Beta subunits of the olfactory cyclic nucleotide–gated channel form a nitric oxide activated Ca2+ channel. Broillet MC, et al. **Neuron** 1997 Jun;18(6):951–8
Dual function of the voltage–dependent Ca2+ channel alpha 2 delta subunit in current stimulation and subunit interaction. Gurnett CA, et al. **Neuron** 1996 Feb; 16(2):431–40
Inhibition of neurotransmission by peptides containing the synaptic protein interaction site of N–type Ca2+ channels. Mochida S, et al. **Neuron** 1996 Oct;17(4):781–8
Either N– or P–type calcium channels mediate GABA release at distinct hippocampal inhibitory synapses. Poncer JC, et al. **Neuron** 1997 Mar;18(3):463–72
Multiple structural elements in voltage–dependent Ca2+ channels support their inhibition by G proteins. Zhang JF, et al. **Neuron** 1996 Nov;17(5):991–1003
Bradykinin inhibition of N– and L–type calcium channel currents in NG108–15 cells. Connor M, et al. **Neuropharmacology** 1997 Jan;36(1):115–24
Electrophysiological properties of the human N–type Ca2+ channel: I. Channel gating in Ca2+, Ba2+ and Sr2+ containing solutions. McNaughton NC, et al. **Neuropharmacology** 1997 Jul;36(7):895–915
Contrasting biophysical and pharmacological properties of T–type and R–type calcium channels. Randall AD, et al. **Neuropharmacology** 1997 Jul;36(7):879–93
Serotonin modulates high–voltage–activated Ca2+ channels in rat ventromedial hypothalamic neurons. Rhee JS, et al. **Neuropharmacology** 1996;35(8):1093–100
Model of a thalamocortical neurone with dendritic voltage–gated ion channels. Antal K, et al. **Neuroreport** 1997 Mar 3;8(4):1063–6
IA–type K+ channel blockers promote survival of cortical neurons in culture: involvement of L–type Ca2+ channels. Frizzo ME, et al. **Neuroreport** 1997 May 27;8(8):1803–6
Effect of nilvadipine on high–voltage activated Ca2+ channels in rat CNS neurons. Ishibashi H, et al. **Neuroreport** 1997 Mar 3;8(4):853–7
Hypoxia in striatal and cortical neurones: membrane potential and Ca2+ measurements. Pisani A, et al. **Neuroreport** 1997 Mar 24;8(5):1143–7
Developmental regulation of voltage–activated Na+ and Ca2+ currents in rat retinal ganglion cells. Schmid S, et al. **Neuroreport** 1996 Jan 31;7(2):677–81
Cyclic AMP–dependent modulation of N– and Q–type Ca2+ channels expressed in Xenopus oocytes. Fukuda K, et al. **Neurosci Lett** 1996 Oct 11;217(1):13–6
A comparative study of L–type voltage sensitive Ca2+ channels in rat brain regions and cultured neuronal cells. Hirota K, et al. **Neurosci Lett** 1997 Feb 28;223(3):169–72
Nimodipine and nitrendipine inhibit N–type calcium channels in dibutyryl cAMP–differentiated neuroblastoma x glioma hybrid (NG 108–15) cells. Li SN, et al. **Neurosci Lett** 1997 Jul 18;230(2):85–8
Effect of SR33805 on barium current and asymmetric intramembrane charge movement in freshly dissociated mouse cerebellar Purkinje neurons. Melliti K, et al. **Neurosci Lett** 1996 Oct 4;216(3):167–70
Kindling–like state in rat hippocampal CA1 slices induced by the repeated short–term extracellular K+ increases: the role of L–type Ca(2+)–channels. Semyanov A, et al. **Neurosci Lett** 1997 Feb 28;223(3):177–80
Multiple voltage–dependent calcium currents in acutely isolated mouse vestibular neurons. Desmadryl G, et al. **Neuroscience** 1997 May;78(2):511–22
Characterization of hypothalamic low–voltage–activated Ca channels based on their functional expression in Xenopus oocytes. Dzhura IO, et al. **Neuroscience** 1996 Feb; 70(3):729–38
Control of Ca2+ channel current and exocytosis in rat lactotrophs by basally active protein kinase C and calcineurin. Fomina AF, et al. **Neuroscience** 1997 May; 78(2):523–31
Calcium– and barium–dependent extracellular alkaline shifts evoked by electrical activity in rat hippocampal slices. Grichtchenko II, et al. **Neuroscience** 1996 Dec; 75(4):1117–26
The development of Ca2+ channel responses and their coupling to exocytosis in cultured cerebellar granule cells. Harrold J, et al. **Neuroscience** 1997 Apr;77(3):683–94
Toxin–resistant calcium currents in embryonic mouse sensory neurons. Hilaire C, et al. **Neuroscience** 1997 Sep; 80(1):267–76
Calcium currents in dissociated cochlear neurons from the chick embryo and their modification by neurotrophin–3. Jiménez C, et al. **Neuroscience** 1997 Apr;77(3):673–82
L–type calcium current in pediatric and adult human atrial myocytes: evidence for developmental changes in channel inactivation. Roca TP, et al. **Pediatr Res** 1996 Sep; 40(3):462–8
Re–evaluation of the P/Q Ca2+ channel components of Ba2+ currents in bovine chromaffin cells superfused with solutions containing low and high Ba2+ concentrations. Albillos A, et al. **Pflugers Arch** 1996 Oct;432(6):1030–8
Voltage–dependent Na+ and Ca2+ currents in human pancreatic islet beta–cells: evidence for roles in the generation of action potentials and insulin secretion. Barnett DW, et al. **Pflugers Arch** 1995 Dec;431(2):272–82
Reversal of the relative expression of cardiac and skeletal alpha1 subunit isoforms of L–type calcium channel during in vitro myogenesis. Bulteau L, et al. **Pflugers Arch** 1997 Jan;433(3):376–8
Kinetic components of the gating currents of human cardiac L–type Ca2+ channels. Josephson IR. **Pflugers Arch** 1997 Jan;433(3):321–9
Calcium channel subtypes in porcine adrenal chromaffin cells. Kitamura N, et al. **Pflugers Arch** 1997 Jun; 434(2):179–87
Inhibition of the L–type calcium channel by the five muscarinic receptors (m1–m5) expressed in NIH 3T3 cells. Pemberton KE, et al. **Pflugers Arch** 1997 Feb;433(4):505–14
P/Q–type calcium channels activate neighboring calcium–dependent potassium channels in mouse motor nerve terminals. Protti DA, et al. **Pflugers Arch** 1997 Aug; 434(4):406–12
Differences in alpha2–adrenoceptor modulation of calcium channels in vascular smooth muscle cells of male and female rats. Song J, et al. **Pflugers Arch** 1996 Nov–Dec; 433(1–2):212–4
Functional expression of rat brain cloned alpha1E calcium channels in COS–7 cells. Stephens GJ, et al. **Pflugers Arch** 1997 Feb;433(4):523–32
Effect of stretch on calcium channel currents recorded from the antral circular myocytes of guinea–pig stomach. Xu WX, et al. **Pflugers Arch** 1996 Jun;432(2):159–64
Role of actin microfilament in osmotic stretch–induced increase of voltage–operated calcium channel current in guinea–pig gastric myocytes. Xu WX, et al. **Pflugers Arch** 1997 Aug;434(4):502–4
Calcium channel types contributing to excitatory and inhibitory synaptic transmission between individual hypothalamic neurons. Zeilhofer HU, et al. **Pflugers Arch** 1996 Jun;432(2):248–57
Ryanodine receptors of striated muscles: a complex channel capable of multiple interactions. Franzini–Armstrong C, et al. **Physiol Rev** 1997 Jul;77(3):699–729 (356 ref.)
Ryanodine receptor Ca2+ release channels: does diversity in form equal diversity in function? Sutko JL, et al. **Physiol Rev** 1996 Oct;76(4):1027–71 (396 ref.)
Activation of mouse sperm T–type Ca2+ channels by adhesion to the egg zona pellucida. Arnoult C, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13004–9
Formation of junctions involved in excitation–contraction coupling in skeletal and cardiac muscle. Flucher BE, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8101–6
An extracellular signaling component in propagation of astrocytic calcium waves. Hassinger TD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13268–73
Up–regulation of pressure–activated Ca(2+)–permeable cation channel in intact vascular endothelium of hypertensive rats. Hoyer J, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11253–8
Functional nonequality of the cardiac and skeletal ryanodine receptors. Nakai J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1019–22
Dendritic calcium conductances generate high–frequency oscillation in thalamocortical neurons. Pedroarena C, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):724–8
Feedback inhibition of Ca2+ channels by Ca2+ depends on a short sequence of the C terminus that does not include the Ca2+ –binding function of a motif with similarity to Ca2+ –binding domains. Zhou J, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2301–5
Characterisation of alpha 1A Ba2+, Sr2+ and Ca2+ currents recorded with the ancillary beta 1–4 subunits. Mangoni ME, et al. **Receptors Channels** 1997;5(1):1–14
Effect of modulating voltage–dependent calcium channels on cholecystokinin and acetylcholine–induced contractions of the guinea pig gallbladder. Parkman HP, et al. **Regul Pept** 1996 May 7;63(1):31–7
Lack of voltage–operated calcium channel in rat glioma C6 cells. Imoto K, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):249–56
Inositol (1,4,5)–trisphosphate receptors: functional properties, modulation, and role in calcium wave propagation. Bezprozvanny I. **Soc Gen Physiol Ser** 1996;51:75–86 (55 ref.)
The role of ryanodine receptor isoforms in the structure and function of the vertebrate triad. Block BA, et al. **Soc Gen Physiol Ser** 1996;51:47–65 (56 ref.)
Triadin, a linker for calsequestrin and the ryanodine receptor. Guo W, et al. **Soc Gen Physiol Ser** 1996;51:19–28 (28 ref.)
Functional properties of inositol 1,4,5–trisphosphate receptor and Ca2+ signaling. Iino M. **Soc Gen Physiol Ser** 1996; 51:67–73 (29 ref.)
Positive and negative regulation of depletion–activated calcium channels by calcium. Lewis RS, et al. **Soc Gen Physiol Ser** 1996;51:241–54
Single channel properties and calcium conductance of the cloned expressed ryanodine receptor/calcium–release channel. Ondrias K, et al. **Soc Gen Physiol Ser** 1996; 51:29–45
Effects of adrenalectomy on Ca2+ currents and Ca2+ channel subunit mRNA expression in hippocampal CA1 neurons of young rats. Karst H, et al. **Synapse** 1997 Jun; 26(2):155–64
Characterization of Fe2+ and Fe3+ transport by iron–loaded cardiac myocytes. Parkes JG, et al. **Toxicology** 1997 Feb 28;117(2–3):141–51
Calcium–current facilitation in chromaffin cells [letter; comment] García AG, et al. **Trends Neurosci** 1996 Sep;

CALCIUM CHANNELS

19(9):383–5. Comment on: Trends Neurosci 1996 Jan;19(1):35–43.

The calcium channel and the organization of the presynaptic transmitter release face. Stanley EF. **Trends Neurosci** 1997 Sep;20(9):404–9 (54 ref.)

Low–voltage–activated T–type Ca2+ channels. Ertel SI, et al. **Trends Pharmacol Sci** 1997 Feb;18(2):37–42

[Altered calcium homeostasis in chronic heart failure] Erdmann E, et al. **Z Kardiol** 1996;85 Suppl 6:123–28 (21 ref.) (Eng. Abstr.) **(Ger)**

[Ca2+ channels in the central nervous system] Murakoshi T, et al. **Nippon Yakurigaku Zasshi** 1997 May;109(5):213–22 (56 ref.) (Eng. Abstr.) **(Jpn)**

[Ryanodine receptor] Takeshima H. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):230–4 (15 ref.) **(Jpn)**

[The effect of antibodies against nerve–specific protein S100 on calcium channels in the somatic membrane of snail neurons] Gainutdinov KhL, et al. **Dokl Akad Nauk** 1996 Oct;350(4):554–6 **(Rus)**

[Role of potassium channels in endothelium–dependent relaxation of the rat mesenteric artery] Zakharenko SS, et al. **Dokl Akad Nauk** 1997 Feb;352(5):708–10 **(Rus)**

[Calcium, neuronal death and neurological disease] Jiménez–Jiménez FJ, et al. **Rev Neurol** 1996 Oct; 24(134):1199–209 (280 ref.) (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Effects of X–irradiation on the calcium channel of the mouse oocyte. Yoshida S. **Life Sci** 1997;60(16):1377–83

THERAPEUTIC USE

[Calcium antagonists and ischemic heart disease] Simon K, et al. **Orv Hetil** 1996 Sep 29;137(39):2131–6 (66 ref.) (Eng. Abstr.) **(Hun)**

ULTRASTRUCTURE

Ryanodine receptors: structure and macromolecular interactions. Wagenknecht T, et al. **Curr Opin Struct Biol** 1997 Apr;7(2):258–65 (63 ref.)

Native structure and arrangement of inositol–1,4,5–trisphosphate receptor molecules in bovine cerebellar Purkinje cells as studied by quick–freeze deep–etch electron microscopy [published erratum appears in EMBO J 1996 Dec 16;15(24):7188] Katayama E, et al. **EMBO J** 1996 Sep 16;15(18):4844–51

Calcium and potassium inhibit barrier recovery after disruption, independent of the type of insult in hairless mice. Mao–Qiang M, et al. **Exp Dermatol** 1997 Feb; 6(1):36–40

CALCIUM CHLORIDE

Similarity and dissimilarity in aspects of the binding to heparin of Ca2+ and Zn2+ as revealed by potentiometric titration. Grant D, et al. **Biochem Soc Trans** 1996 May; 24(2):203S

Tenderizing spent fowl meat with calcium chloride. 1. Effects of delivery method and tumbling. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):534–7

Tenderizing spent fowl meat with calcium chloride. 2. The role of delayed application and ionic strength. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):538–42

Tenderizing spent fowl meat with calcium chloride. 3. Biochemical characteristics of tenderized breast meat. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):543–7

Tenderizing spent fowl meat with calcium chloride. 4. Improved oxidative stability and the effects of additional aging. Woods KL, et al. **Poult Sci** 1997 Mar;76(3):548–51

METABOLISM

Effect of divalent metal ions on the binding of tissue factor and activated factor VII. Head DM, et al. **Thromb Res** 1997 Feb 15;85(4):327–39

PHARMACOLOGY

Effects of parathyroidectomy and calcium supplementation on the pressor response to angiotensin II in conscious rats. Maeda T, et al. **Artery** 1996;22(3):125–39

Calcium–induced bilirubin–dependent hemolysis of human erythrocytes. Ali MK, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):124–30

Effects of the protein tyrosine kinase inhibitor, herbimycin A, on prolactin gene expression in GH3 and 235–1 pituitary tumor cells. Billis WM, et al. **Biochim Biophys Acta** 1997 Aug 21;1358(1):31–8

Role of intracellular Ca2+ in activation of protein kinase C during ischemic preconditioning. Node K, et al. **Circulation** 1997 Aug 19;96(4):1257–65

Collagen and proteoglycan production by bovine fetal and adult chondrocytes under low levels of calcium and zinc ions. Koyano Y, et al. **Connect Tissue Res** 1996;34(3):213–25

Enhancement of yeast ethanol tolerance by calcium and magnesium. Ciesarová Z, et al. **Folia Microbiol (Praha)** 1996;41(6):485–8

Effects of short–term treatment with CaCl2 or EDTA on the parathyroid glands in pregnant golden hamsters, with special reference to large vacuolar bodies. Emura S, et al. **Histol Histopathol** 1997 Jul;12(3):617–21

Hemodynamic effects of epinephrine, bicarbonate and calcium in the early postnatal period in a lamb model of single–ventricle physiology created in utero. Reddy VM, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1877–83

Effect of calcium chloride gel treatment in dairy cows on incidence of periparturient diseases. Oetzel GR. **J Am Vet Med Assoc** 1996 Sep 1;209(5):958–61

Improving tenderness of normal and callipyge lambs with calcium chloride. Clare TL, et al. **J Anim Sci** 1997 Feb; 75(2):377–85

Effects of blast chilling and postmortem calcium chloride injection on tenderness of pork longissimus muscle. McFarlane BJ, et al. **J Anim Sci** 1996 Aug;74(8):1842–5

Calcium chloride injection and degree of doneness effects on the sensory characteristics of beef inside round roasts. Milligan SD, et al. **J Anim Sci** 1997 Mar;75(3):668–72

Comment on the paper "Improving tenderness of normal and callipyge lambs with calcium chloride" [letter] Rumsey TS. **J Anim Sci** 1997 Jul;75(7):1987–8

Effect of vitamin C concentration and co–injection with calcium chloride on beef retail display color. Wheeler TL, et al. **J Anim Sci** 1996 Aug;74(8):1846–53

Effects of Ca and H2O2 added to RPMI on the fretting corrosion of Ti6Al4V. Montague A, et al. **J Biomed Mater Res** 1996 Dec;32(4):519–26

Hysteresis of the PTH–calcium curve during hypocalcemia in the dog: effect of the rate and linearity of calcium decrease and sequential episodes of hypocalcemia. Aguilera–Tejero E, et al. **J Bone Miner Res** 1996 Sep; 11(9):1226–33

[Effect of calcium and its antagonists on hemodynamics and respiration] Sanotskaia NV, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):138–43 **(Rus)**

[The effect of calcium chloride on the distribution, protein binding and catabolism of 14C–biotin in the body of white mice] El'kina VA, et al. **Fiziol Zh** 1996;42(5–6):72–80 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

[Increased plasma membrane permeability for Ca2+ in radiation–induced thymocyte apoptosis] Shevchenko AS, et al. **Radiats Biol Radioecol** 1997 Mar–Apr;37(2):220–7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Resuscitation after nifedipine overdose exclusively with intravenous calcium chloride. Haddad LM. **Am J Emerg Med** 1996 Oct;14(6):602–3

Digoxin, hyperkalemia, and kidney failure [letter; comment] Jain A, et al. **Ann Emerg Med** 1997 May;29(5):696; discussion 696–7. Comment on: Ann Emerg Med 1996 Oct;28(4):440–1.

Digoxin, hyperkalemia, and kidney failure [letter; comment] Kuhn M. **Ann Emerg Med** 1997 May;29(5):695–6; discussion 696–7. Comment on: Ann Emerg Med 1996 Oct;28(4):440–1.

CALCIUM CITRATE

ADMINISTRATION & DOSAGE

Acute changes in serum calcium and parathyroid hormone circulating levels induced by the oral intake of five currently available calcium salts in healthy male volunteers. Deroisy R, et al. **Clin Rheumatol** 1997 May;16(3):249–53

ANALOGS & DERIVATIVES see CITRATES

PHARMACOKINETICS

Intestinal calcium absorption from different calcium preparations: influence of anion and solubility. Hansen C, et al. **Osteoporos Int** 1996;6(5):386–93

CALCIUM COMPOUNDS

Biocompatibility of glass–crystalline materials obtained by the sol–gel method: effect on macrophage function. Turyna B, et al. **Biomaterials** 1996 Jul;17(14):1379–86

Adsorption of bacteriocins by ingestible silica compounds. Wan J, et al. **J Appl Bacteriol** 1996 Aug;81(2):167–73

Effect of the substitution of La2O3 for CaO on the bioactivity of 2.5CaO.2SiO2 glass. Fresa R, et al. **J Biomed Mater Res** 1996 Oct;32(2):187–92

Ectopic bone induction in porous apatite–wollastonite–containing glass ceramic combined with bone morphogenetic protein. Ijiri S, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):421–32

The use of calcium oxide in controlling house flies in Yangon, Myanmar [letter] Nwe Oo K, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):117–8

ADMINISTRATION & DOSAGE

Calcium and vitamin D in the prevention and treatment of osteoporosis. Orcel P. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):70S–74S (50 ref.)

ANALYSIS

Bioactivity of 1.25CaO.SiO2 glass: an FTIR and X–ray study on powdered samples. Branda F, et al. **Biomaterials** 1996 Dec;17(23):2247–51

Natural (Mg,Fe)SiO3–ilmenite and –perovskite in the Tenham meteorite. Tomioka N, et al. **Science** 1997 Aug 22;277(5329):1084–6

CHEMISTRY

Effects of liming on uptake of lead and cadmium by Raphanus sativa. Han DH, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):488–93

Effect of the substitution of Y2O3 for CaO on the bioactivity of 2.5CaO.2SiO2 glass. Costantini A, et al. **Biomaterials** 1997 Mar;18(6):453–8

Preparation and characterization of double layered coating composed of hydroxyapatite and perovskite by thermal decomposition. Zhou P, et al. **Biomed Mater Eng** 1997; 7(1):67–81

[Production of carbon monoxide in soda lime (letter) (see comments)] Ponz L. **Rev Esp Anestesiol Reanim** 1996 Jan; 43(1):42. Comment in: Rev Esp Anestesiol Reanim 1996 Aug;Sep;43(7):261–2. **(Spa)**

[Clinical circumstances of desiccation of soda lime (letter; comment)] Soro M, et al. **Rev Esp Anestesiol Reanim** 1996 Aug–Sep;43(7):261–2. Comment on: Rev Esp Anestesiol Reanim 1996 Jan;43(1):42. **(Spa)**

[Quantification of dehydration of soda lime in clinical circumstances] Soro–Domingo M, et al. **Rev Esp Anestesiol Reanim** 1997 May;44(5):186–90 (Eng. Abstr.) **(Spa)**

PHARMACOLOGY

Baralyme dehydration increases and soda lime dehydration decreases the concentration of compound A resulting from sevoflurane degradation in a standard anesthetic circuit. Eger EI 2nd, et al. **Anesth Analg** 1997 Oct;85(4):892–8

[Use of hydrated lime for disinfection of sewage sludge containing Salmonella typhimurium and Ascaris suum as model pathogens] Plachý P, et al. **Vet Med (Praha)** 1996 Aug;41(8):255–9 (Eng. Abstr.) **(Slo)**

POISONING

Calcium polysulfide overdose: a report of two cases [see comments] Horowitz BZ, et al. **J Toxicol Clin Toxicol** 1997; 35(3):299–303. Comment in: J Toxicol Clin Toxicol 1997 ;35(3):305–6.

Fibrosis of the lung and pleura and long–term exposure to wollastonite. Koskinen HO, et al. **Scand J Work Environ Health** 1997 Feb;23(1):41–7

THERAPEUTIC USE

Metabolic bone disease of prematurity. Backström MC, et al. **Ann Med** 1996 Aug;28(4):275–82 (73 ref.)

Using mineral trioxide aggregate as a pulp–capping material. Ford TR, et al. **J Am Dent Assoc** 1996 Oct;127(10):1491–4

Repair of furcal perforations with mineral trioxide aggregate: two case reports. Arens DE, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):84–8

Are drugs helpful in adults with osteogenesis imperfecta? [editorial] Chevrel G, et al. **Rev Rhum Engl Ed** 1997 May; 64(5):283–6

Use of erythropoietin, active vitamin D3 metabolites, and alkali agents in predialysis patients. Ismail N. **Semin Nephrol** 1997 Jul;17(4):270–84 (112 ref.)

TOXICITY

Mesothelial cell proliferation and biopersistence of wollastonite and crocidolite asbestos fibers. Macdonald JL, et al. **Fundam Appl Toxicol** 1997 Aug;38(2):173–83

CALCIUM CYANAMIDE see **CYANAMIDE**

CALCIUM–DEPENDENT ACTIVATOR PROTEIN see **CALMODULIN**

CALCIUM–DEPENDENT NEUTRAL PROTEINASE see **CALPAIN**

CALCIUM–DEPENDENT REGULATOR see **CALMODULIN**

CALCIUM, DIETARY

Calcium intake and fracture risk: results from the study of osteoporotic fractures. Cumming RG, et al. **Am J Epidemiol** 1997 May 15;145(10):926–34

Some questions about "Epidemiologic association between dietary calcium intake and blood pressure: a meta–analysis of published data" [letter; comment] Heaney RP. **Am J Epidemiol** 1997 May 1;145(9):858–9. Comment on: Am J Epidemiol 1995 Nov 1;142(9):935–45.

Nutritional aspects of calcium and vitamin D from infancy to adolescence. Saggese G, et al. **Ann Ist Super Sanita** 1995; 31(4):461–79 (116 ref.)

Plasma osteocalcin in healthy Nigerian children and in children with calcium–deficiency rickets. Oginni LM, et al. **Calcif Tissue Int** 1996 Dec;59(6):424–7

Ki–ras mutation modifies the protective effect of dietary monounsaturated fat and calcium on sporadic colorectal cancer. Bautista D, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jan;6(1):57–61

Calcium does not protect against colorectal neoplasia. Bergsma–Kadijk JA, et al. **Epidemiology** 1996 Nov;

7(6):590–7
Estimated dietary calcium intake and food sources for adolescent females: 1980–92. Albertson AM, et al. **J Adolesc Health** 1997 Jan;20(1):20–6
Mineral metabolism in plasma, urine and bone of periparturient cows fed anionic diets with different calcium and phosphorous contents. Won JH, et al. **J Vet Med Sci** 1996 Dec;58(12):1187–92
Bone histomorphometric changes due to differences in calcium intake under metabolic acidosis in rats. Won JH, et al. **J Vet Med Sci** 1996 Jul;58(7):611–6
Dietary calcium supplementation and blood pressure [letter; comment] Cappuccio FP. **JAMA** 1996 Nov 6; 276(17):1385–6. Comment on: JAMA 1996 Apr 3;275(13):1016–22.
Intestinal transport of calcium in rat biliary cirrhosis. Buts JP, et al. **Pediatr Res** 1996 Oct;40(4):533–41
Efficacy of supplemental microbial phytase at different dietary calcium levels on growth performance and mineral utilization of broiler chickens. Sebastian S, et al. **Poult Sci** 1996 Dec;75(12):1516–23
The use of dietary calcium intake of dairy ruminants to predict the transfer coefficient of radiostrontium to milk. Howard BJ, et al. **Radiat Environ Biophys** 1997 Feb; 36(1):39–43
[Crystalluria in sows] Wendt M, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec;103(12):506–10 (Eng. Abstr.) **(Ger)**
[Importance of dietary calcium in adaptation to combined stress in regions of the Far North] Sukhanov BP, et al. **Med Tr Prom Ekol** 1997;(2):13–5 (Eng. Abstr.) **(Rus)**
[Nutrition and osteoporosis: a consolidated relationship] Luna López V, et al. **Med Clin (Barc)** 1997 Sep 6;109(7):271–5 (30 ref.) **(Spa)**

ADMINISTRATION & DOSAGE

Marine n-3 fatty acid and calcium intake in relation to pregnancy induced hypertension, intrauterine growth retardation, and preterm delivery. A case-control study. Kesmodel U, et al. **Acta Obstet Gynecol Scand** 1997 Jan; 76(1):38–44
Role of adequate dietary calcium intake in the prevention and management of salt-sensitive hypertension. McCarron DA. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):712S–716S (24 ref.)
High dietary calcium intakes reduce zinc absorption and balance in humans. Wood RJ, et al. **Am J Clin Nutr** 1997 Jun;65(6):1803–9
Dietary calcium, alcohol, and incidence of treated hypertension in the NHANES I epidemiologic follow-up study. Dwyer JH, et al. **Am J Epidemiol** 1996 Nov 1; 144(9):828–38
The importance of dietary calcium and phosphorous in the secondary hyperparathyroidism of patients with early renal failure. Martinez I, et al. **Am J Kidney Dis** 1997 Apr; 29(4):496–502
Optimal dietary calcium intake in primary hyperparathyroidism. Locker FG, et al. **Am J Med** 1997 Jun;102(6):543–50
Rat calcium-sensing receptor is regulated by vitamin D but not by calcium. Brown AJ, et al. **Am J Physiol** 1996 Mar; 270(3 Pt 2):F454–60
Reversal of hypertension and endothelial dysfunction in deoxycorticosterone-NaCl-treated rats by high-Ca2+ diet. Mäkynen H, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1250–7
Adrenalectomy decreases NaCl intake of rats fed low-calcium diets. Tordoff MG. **Am J Physiol** 1996 Jan; 270(1 Pt 2):R11–21
Daily rhythm of NaCl intake in rats fed low-Ca2+ diet: relation to plasma and urinary minerals and hormones. Tordoff MG, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R505–17
Milk, dietary calcium, and bone fractures in women: a 12-year prospective study. Feskanich D, et al. **Am J Public Health** 1997 Jun;87(6):992–7
Effects of dietary aluminum on chicks Gallus gallus domesticus with different dietary intake of calcium and phosphorus. Nybø S. **Arch Environ Contam Toxicol** 1996 Aug;31(2):177–83
Intake of dietary calcium to reduce the incidence of osteoporosis. Council on Scientific Affairs, American Medical Association. **Arch Fam Med** 1997 Sep-Oct; 6(5):495–9 (73 ref.)
Dietary calcium supplementation and dopamine-beta-hydroxylase in spontaneously hypertensive rats. Nuglozeh E, et al. **Biochem Pharmacol** 1997 Jun 15; 53(12):1867–71
Effect of low dietary calcium intake on blood pressure and pressure natriuresis response in rats: a possible role of the renin-angiotensin system. Yuasa S, et al. **Blood Press** 1996 Mar;5(2):121–7
Long-term effect of calcium supplementation during pregnancy on the blood pressure of offspring: follow up of a randomised controlled trial. Belizán JM, et al. **BMJ** 1997 Aug 2;315(7103):281–5
Effect of dietary calcium intake and meal calcium content on calcium absorption in the rat. Cashman KD, et al. **Br J Nutr** 1996 Sep;76(3):463–70
Current diet does not relate to bone mineral density after the menopause. The Nottingham Early Postmenopausal Intervention Cohort (EPIC) Study Group. Earnshaw SA, et al. **Br J Nutr** 1997 Jul;78(1):65–72
Bone density and tissue lead accretion in growing rats fed low high calcium with or without supplemental clinoptilolite. Pond WG, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):713–21
Effect of calcium supplementation as a high-calcium mineral water on bone loss in early postmenopausal women. Cepollaro C, et al. **Calcif Tissue Int** 1996 Oct;59(4):238–9
Effects of clodronate on cortical and trabecular bone in ovariectomized rats on a low calcium diet. Kaastad TS, et al. **Calcif Tissue Int** 1997 Aug;61(2):158–64
Postmenopausal bone mineral density: relationship to calcium intake, calcium absorption, residual estrogen, body composition, and physical activity. Hoover PA, et al. **Can J Physiol Pharmacol** 1996 Aug;74(8):911–7
Dietary calcium salts as protective agents and laminin P1 as a biochemical marker in chemically induced colon carcinogenesis in rats. Belbraouet S, et al. **Cancer Detect Prev** 1996;20(4):294–9
Cytokeratin, lectin, and acidic mucin modulation in differentiating colonic epithelial cells of mice after feeding Western-style diets. Yang K, et al. **Cancer Res** 1996 Oct 15;56(20):4644–8
Association of diet and colorectal adenomatous polyps: dietary fiber, calcium, and total fat. Martínez ME, et al. **Epidemiology** 1996 May;7(3):264–8
Acute PTH response to oral calcium load and seasonal variation of vitamin D status in healthy young adult subjects. Guillemant J, et al. **Eur J Clin Nutr** 1996 Jul; 50(7):469–72
Osteocalcin response to calcium-restricted diet: a helpful tool for the workup of hypercalciuria. Strohmaier WL, et al. **Eur Urol** 1996;30(1):103–7
Increasing the intestinal resistance of rats to the invasive pathogen Salmonella enteritidis: additive effects of dietary lactulose and calcium. Bovee-Oudenhoven IM, et al. **Gut** 1997 Apr;40(4):497–504
Dietary calcium, potassium, magnesium and blood pressure in the Netherlands. Van Leer EM, et al. **Int J Epidemiol** 1995 Dec;24(6):1117–23
New views on the RDAs for older adults. Russell RM. **J Am Diet Assoc** 1997 May;97(5):515–8
Long-term changes in bone mineral and biomechanical properties of vertebrae and femur in aging, dietary calcium restricted, and/or estrogen-deprived/-replaced rats. Jiang Y, et al. **J Bone Miner Res** 1997 May;12(5):820–31
The BsmI vitamin D receptor restriction fragment length polymorphism (bb) influences the effect of calcium intake on bone mineral density. Kiel DP, et al. **J Bone Miner Res** 1997 Jul;12(7):1049–57
Calcium intake among women aged 40–76 in Sweden. Study Group MRS SWEA. Multiple Risk Survey on Swedish Women for Eating Assessment. Michaëlsson K, et al. **J Epidemiol Community Health** 1996 Oct;50(5):577–8
Effects of bifemelane hydrochloride on atherosclerosis in aged rats fed low-calcium diets. Yasui M, et al. **J Int Med Res** 1996 Nov-Dec;24(6):454–65
Dietary calcium intake and its relation to bone mineral density in patients with inflammatory bowel disease. Silvennoinen J, et al. **J Intern Med** 1996 Nov;240(5):285–92
Epithelial cell hyperproliferation induced in the exocrine pancreas of mice by a western-style diet. Xue L, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1586–90
Calcium intake and the incidence of forearm and hip fractures among men. Owusu W, et al. **J Nutr** 1997 Sep;127(9):1782–7
Calcium intake in children with positive IgG RAST to cow's milk. Madsen CD, et al. **J Paediatr Child Health** 1997 Jun; 33(3):209–12
Etiology of nutritional rickets: geographic variations [letter; comment] Walker AR. **J Pediatr** 1997 Mar;130(3):501–3. Comment on: J Pediatr 1996 May;128(5 Pt 1):600–1. Comment on: J Pediatr 1996 May;128(5 Pt 1):692–4.
Prevention of bone loss by bisphosphonate YM175 in ovariectomized dogs with dietary calcium restriction. Motoie H, et al. **Jpn J Pharmacol** 1996 Jul;71(3):239–46
Urinary oxalate excretion increases with body size and decreases with increasing dietary calcium intake among healthy adults [published erratum appears in Kidney Int 1996 Jul;50(1):341] Lemann J Jr, et al. **Kidney Int** 1996 Jan;49(1):200–8
Dietary calcium intake, physical activity and the risk of vertebral fracture in Chinese. Chan HH, et al. **Osteoporos Int** 1996;6(3):228–32
Prevention of secondary hyperparathyroidism and hip fracture in elderly women with calcium and vitamin D3 supplements. Chapuy MC, et al. **Osteoporos Int** 1996;6 Suppl 3:60–3 (22 ref.)
Acute effects induced by a calcium-rich mineral water on calcium metabolism and on parathyroid function [letter] Guillemant J, et al. **Osteoporos Int** 1997;7(1):85–6
A high dietary calcium intake is needed for a positive effect on bone density in Swedish postmenopausal women. Michaëlsson K, et al. **Osteoporos Int** 1997;7(2):155–61
An anthropological perspective on optimizing calcium consumption for the prevention of osteoporosis. Nelson DA. **Osteoporos Int** 1996;6(4):325–8 (47 ref.)
Timing of the calcium intake and effect of calcium deficiency on behaviour and egg laying in captive great tits, Parus major. Graveland J, et al. **Physiol Zool** 1997 Jan-Feb; 70(1):74–84
Is nutrition important in osteoporosis? Prentice A. **Proc Nutr Soc** 1997 Mar;56(1B):357–67 (74 ref.)
Low calcium diet and 1,25-dihydroxyvitamin D(3) infusion modulate immune responses during Mycobacterium paratuberculosis infection in beige mice. Stabel JR, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1-2):127–43
Calcium deficiency, diet and dental disease in pet rabbits [see comments] Harcourt-Brown FM. **Vet Rec** 1996 Dec 7; 139(23):567–71. Comment in: Vet Rec 1997 Jan 11;140(2):52.
[The importance of calcium ions in the body] Wilczek H. **Cas Lek Cesk** 1997 Jul 30;136(15):479–81 (10 ref.) (Eng. Abstr.) **(Cze)**
[Effect of measuring bone mineral density on calcium intake] Miyamura T, et al. **Nippon Ronen Igakkai Zasshi** 1996 Nov; 33(11):840–6 (Eng. Abstr.) **(Jpn)**
[The effect of dietary calcium on the level of body adaptation under conditions of cesium-137 and lead loading] Korolev AA, et al. **Vopr Pitan** 1996;(3):34–7 (Eng. Abstr.) **(Rus)**
[Calcium intake and blood lead in women in reproductive age] Lacasaña-Navarro M, et al. **Rev Invest Clin** 1996 Nov-Dec;48(6):425–30 (Eng. Abstr.) **(Spa)**
[Food fortification with calcium] Farias H. **Rev Med Chil** 1996 Aug;124(8 Suppl):97–102 **(Spa)**
[Calcium and folic acid are delicate knotty questions] Bruce A. **Lakartidningen** 1997 May 21;94(21):1993–6 **(Swe)**

ADVERSE EFFECTS

Diet and calcium: the end of an era? [editorial; comment] Coe FL, et al. **Ann Intern Med** 1997 Apr 1;126(7):553–5 . Comment on: Ann Intern Med 1997 Apr 1;126(7):497–504.
Comparison of dietary calcium with supplemental calcium and other nutrients as factors affecting the risk for kidney stones in women [see comments] Curhan GC, et al. **Ann Intern Med** 1997 Apr 1;126(7):497–504. Comment in: Ann Intern Med 1997 Apr 1;126(7):553–5.
Adverse effects of wide calcium:phosphorus ratios on supplemental phytase efficacy for weanling pigs fed two dietary phosphorus levels. Qian H, et al. **J Anim Sci** 1996 Jun;74(6):1288–97
Sensitivity to calcium intake in calcium stone forming patients. Heilberg IP, et al. **Nephron** 1996;73(2):145–53
Adverse effects of high-calcium diets in humans. Whiting SJ, et al. **Nutr Rev** 1997 Jan;55(1 Pt 1):1–9 (62 ref.)

ANALYSIS

Nutritional effect of calcium supplementation by skim milk powder or calcium tablets on total nutrient intake in postmenopausal women [see comments] Devine A, et al. **Am J Clin Nutr** 1996 Nov;64(5):731–7. Comment in: Am J Clin Nutr 1996 Nov;64(5):791–2.
Results of a short-term, low-calcium adaptation study should not be generalized to children with persistently low calcium intakes [letter; comment] [see comments] Lee WT. **Am J Clin Nutr** 1996 Nov;64(5):826–8. Comment on: Am J Clin Nutr 1996 Apr;63(4):579–83. Comment in: Am J Clin Nutr 1997 May;65(5):1570.
Utilization of phytate phosphorus and calcium as influenced by microbial phytase, cholecalciferol, and the calcium: total phosphorus ratio in broiler diets. Qian H, et al. **Poult Sci** 1997 Jan;76(1):37–46

CHEMISTRY see CALCIUM/chemistry

DEFICIENCY see CALCIUM/deficiency

METABOLISM

Results of a short-term, low-calcium adaptation study should not be generalized to children with persistently low calcium intakes [letter; comment] [see comments] Lee WT. **Am J Clin Nutr** 1996 Nov;64(5):826–8. Comment on: Am J Clin Nutr 1996 Apr;63(4):579–83. Comment in: Am J Clin Nutr 1997 May;65(5):1570.
Lead-calcium interactions: involvement of 1,25-dihydroxyvitamin D. Fullmer CS. **Environ Res** 1997 Jan;72(1):45–55

PHARMACOKINETICS

Bioavailability of calcium supplements [letter; comment] [see comments] Bronner F. **Am J Clin Nutr** 1996 Nov; 64(5):825–6. Comment on: Am J Clin Nutr 1996 Mar;63(3):354–7. Comment in: Am J Clin Nutr 1997 Jun;65(6):1898–9.
Bioavailability of calcium supplements [letter; comment] Guéguen L. **Am J Clin Nutr** 1997 Jun;65(6):1898–9. Comment on: Am J Clin Nutr 1996 Mar;63(3):354–7. Comment on: Am J Clin Nutr 1996 Nov;64(5):825–6.
Metabolic responses of postmenopausal women to supplemental dietary boron and aluminum during usual and low magnesium intake: boron, calcium, and magnesium absorption and retention and blood mineral concentrations. Hunt CD, et al. **Am J Clin Nutr** 1997 Mar;65(3):803–13
Serum vitamin D metabolites and calcium absorption in normal young and elderly free-living women and in women living in nursing homes. Kinyamu HK, et al. **Am J Clin Nutr** 1997 Mar;65(3):790–7
Relations between calcium intake, calcitriol, polymorphisms of the vitamin D receptor gene, and calcium absorption in premenopausal women. Wishart JM, et al. **Am J Clin Nutr** 1997 Mar;65(3):798–802
Comparison of the influence of dietary fibre sources with

different proportions of soluble and insoluble fibre on Ca, Mg, Fe, Zn, Mn and Cu apparent absorption in rats. Gralak MA, et al. **Arch Tierernahr** 1996;49(4):293–9

Calcium kinetics in glycogen storage disease type 1a. Goans RE, et al. **Calcif Tissue Int** 1996 Dec;59(6):449–53

Effect of vitamin D receptor genotypes on calcium absorption, duodenal vitamin D receptor concentration, and serum 1,25 dihydroxyvitamin D levels in normal women. Kinyamu HK, et al. **Calcif Tissue Int** 1997 Jun; 60(6):491–5

Mechanisms of intestinal calcium absorption and availability of dietary calcium in pigs. Kaune R. **DTW Dtsch Tierarztl Wochenschr** 1996 Jun;103(6):215–8 (28 ref.)

Calcium absorption from apple and orange juice fortified with calcium citrate malate (CCM). Andon MB, et al. **J Am Coll Nutr** 1996 Jun;15(3):313–6

Association between intestinal vitamin D receptor, calcium absorption, and serum 1,25 dihydroxyvitamin D in normal young and elderly women. Kinyamu HK, et al. **J Bone Miner Res** 1997 Jun;12(6):922–8

Effects of lactitol–oligosaccharides on calcium and magnesium absorption in rats. Yanahira S, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):123–32

Variables related to urinary calcium excretion in young girls. O'Brien KO, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul; 23(1):8–12

Effects of milk and milk components on calcium, magnesium, and trace element absorption during infancy. Lönnerdal B. **Physiol Rev** 1997 Jul;77(3):643–69 (243 ref.)

[Bioavailability of ingested calcium] Villa A. **Rev Med Chil** 1996 Aug;124(8 Suppl):35–9 (40 ref.) **(Spa)**

PHARMACOLOGY

A randomized, placebo–controlled trial of calcium supplementation for decreased bone density in corticosteroid–using patients with inflammatory bowel disease: a pilot study. Bernstein CN, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):777–86

Nutritional effect of calcium supplementation by skim milk powder or calcium tablets on total nutrient intake in postmenopausal women [see comments] Devine A, et al. **Am J Clin Nutr** 1996 Nov;64(5):731–7. Comment in: Am J Clin Nutr 1996 Nov;64(5):791–2.

Postprandial parathyroid hormone response to four calcium–rich foodstuffs. Kärkkäinen MU, et al. **Am J Clin Nutr** 1997 Jun;65(6):1726–30

Effect of calcium intake on nonheme–iron absorption from a complete diet. Reddy MB, et al. **Am J Clin Nutr** 1997 Jun;65(6):1820–5

High calcium diet reduces blood pressure in exercised and nonexercised hypertensive rats. Sallinen K, et al. **Am J Hypertens** 1996 Feb;9(2):144–56 (53 ref.)

Dietary calcium and blood pressure [letter; comment] Bucher HC, et al. **Ann Intern Med** 1997 Mar 15;126(6):492; discussion 492–3. Comment on: Ann Intern Med 1996 May 1;124(9):825–31.

Dietary calcium and blood pressure [letter; comment] Cher DJ. **Ann Intern Med** 1997 Mar 15;126(6):492; discussion 492–3. Comment on: Ann Intern Med 1996 May 1;124(9):825–31.

Overnight suppression of parathyroid hormone and bone resorption markers by active absorbable algae calcium. A double–blind crossover study. Fujita T, et al. **Calcif Tissue Int** 1997 Jun;60(6):506–12

Dietary calcium, vitamin D, and the risk of colorectal cancer in Stockholm, Sweden. Pritchard RS, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):897–900

Lack of dietary calcium effect on chlordecone increased white blood cell count, total iron, and iron–binding capacity in serum of rat. Chetty KN, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):268–70

Dietary calcium inhibits the intestinal colonization and translocation of Salmonella in rats. Bovee–Oudenhoven IM, et al. **Gastroenterology** 1997 Aug;113(2):550–7

The effect of calcium gluconate and other calcium supplements as a dietary calcium source on magnesium absorption in rats. Chonan O, et al. **Int J Vitam Nutr Res** 1997;67(3):201–6

Interaction of dietary calcium and supplemental fat on digestive function and growth performance in feedlot steers. Zinn RA, et al. **J Anim Sci** 1996 Oct;74(10):2303–9

Bone mineral mass consolidation in young British adults. Parsons TJ, et al. **J Bone Miner Res** 1996 Feb;11(2):264–74

Calcium–enriched foods and bone mass growth in prepubertal girls: a randomized, double–blind, placebo–controlled trial. Bonjour JP, et al. **J Clin Invest** 1997 Mar 15;99(6):1287–94

Effects of dietary calcium soaps of unsaturated fatty acids on digestion, milk composition and physical properties of butter. Enjalbert F, et al. **J Dairy Res** 1997 May; 64(2):181–95

Lactational response of cows to different concentrations of calcium salts of canola oil fatty acids with or without bicarbonates. Chouinard PY, et al. **J Dairy Sci** 1997 Jun; 80(6):1185–93

Dietary electrolyte intake and blood pressure in older subjects: the Rotterdam Study [see comments] Geleijnse JM, et al. **J Hypertens** 1996 Jun;14(6):737–41. Comment in: J Hypertens 1996 Dec;14(12):1491.

Effects of calcium supplementation on pregnancy–induced hypertension [letter; comment] Levine R, et al. **JAMA** 1996 Nov 6;276(17):1387; discussion 1388. Comment on: JAMA 1996 Apr 10;275(14):1113–7.

Effects of calcium supplementation on pregnancy–induced hypertension [letter; comment] Roberts JM, et al. **JAMA** 1996 Nov 6;276(17):1386–7; discussion 1388. Comment on: JAMA 1996 Apr 10;275(14):1113–7.

Blood pressure and cationic transport systems during combined calcium channel blocker and calcium administration in males. Lijnen P, et al. **Methods Find Exp Clin Pharmacol** 1996 May;18(4):287–94

The interaction of PTH and dietary phosphorus and calcium on serum calcitriol levels in the rat with experimental renal failure. Martin–Malo A, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1553–8

The effect of different levels of vitamin C and cholecalciferol with adequate or marginal levels of dietary calcium on performance and eggshell quality of laying hens. Keshavarz K. **Poult Sci** 1996 Oct;75(10):1227–35

Dietary calcium and phosphorus effects on broiler performance and the incidence of sudden death syndrome mortality. Scheideler SE, et al. **Poult Sci** 1995 Dec; 74(12):2011–8

STANDARDS

Relative validity of 16–year recall of calcium intake by a dairy questionnaire in young Dutch adults. Welten DC, et al. **J Nutr** 1996 Nov;126(11):2843–50

THERAPEUTIC USE

Osteodystrophy in a kitten. Watson AD, et al. **Aust Vet J** 1997 Jan;75(1):16, 30–1

The effect of wheat bran fiber and calcium supplementation on rectal mucosal proliferation rates in patients with resected adenomatous colorectal polyps. Alberts DS, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar;6(3):161–9

Chemoprevention of metachronous adenomas of the large bowel: design and interim results of a randomized trial of calcium and fibre. ECP Colon Group. Faivre J, et al. **Eur J Cancer Prev** 1997 Apr;6(2):132–8

Calcium and the prevention and treatment of postmenopausal osteoporosis [editorial] [see comments] Davey DA. **S Afr Med J** 1997 Feb;87(2):132–3. Comment in: S Afr Med J 1997 Apr;87(4):473–4.

Protective effects of dietary lactulose and calcium phosphate against Salmonella infection. Bovee–Oudenhoven I, et al. **Scand J Gastroenterol Suppl** 1997;222:112–4

[The role of dietary calcium in hypertensive disease: update and clinical implications] Zgheib A, et al. **J Med Liban** 1995;43(2):89–96 (77 ref.) **(Fre)**

[Effect of low doses of oral pamidronate (APD) on the calcemia of osteopenic or osteoporotic patients] Roldan EJ, et al. **Medicina (B Aires)** 1996;56(2):133–7 (Eng. Abstr.) **(Spa)**

CALCIUM DIPHOSPHATE see **CALCIUM PYROPHOSPHATE**

CALCIUM DOBESILATE

ADVERSE EFFECTS

Drug fever attributable to Calcium Dobesilate. Galindo Bonilla PA, et al. **Allergol Immunopathol (Madr)** 1996 Jan–Feb;24(1):19–21

PHARMACOLOGY

Effects of calcium dobesilate on the synthesis of endothelium–dependent relaxing factors in rabbit isolated aorta. Ruiz E, et al. **Br J Pharmacol** 1997 Jun;121(4):711–6

THERAPEUTIC USE

[Focusing on diabetic retinopathy] **Ophthalmologe** 1995 Aug; 92(4 Suppl):1–8 **(Ger)**

CALCIUM FLUORIDE

CHEMICAL SYNTHESIS

[In vitro study on synthetic "CaF2–like" material: preparation and characterization] Zheng R, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):222–4 **(Chi)**

CALCIUM GLUCONATE

ADMINISTRATION & DOSAGE

The efficacy of calcium gluconate in ocular hydrofluoric acid burns. Beiran I, et al. **Hum Exp Toxicol** 1997 Apr; 16(4):223–8

Prevention of citrate reactions during therapeutic plasma exchange by constant infusion of calcium gluconate with the return fluid. Weinstein R. **J Clin Apheresis** 1996; 11(4):204–10

The efficacy of treatment with triamcinolone acetonide in calcinosis cutis following extravasation of calcium gluconate: a preliminary study. Ahn SK, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):103–9

ADVERSE EFFECTS

Calcium gluconate––its unusual complication [published erratum appears in Indian Pediatr 1996 Jul;33(7):616] Lakhani JK. **Indian Pediatr** 1996 Jun;33(6):510–2

The efficacy of treatment with triamcinolone acetonide in calcinosis cutis following extravasation of calcium gluconate: a preliminary study. Ahn SK, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):103–9

CHEMISTRY

Substituted glycals as probes of glycosidase mechanisms. Lai EC, et al. **Bioorg Med Chem** 1996 Nov;4(11):1929–37

PHARMACOLOGY

Small cystic insulinoma: value of arterial stimulation venous sampling. Baba Y, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):308–10

The effect of calcium gluconate and other calcium supplements as a dietary calcium source on magnesium absorption in rats. Chonan O, et al. **Int J Vitam Nutr Res** 1997;67(3):201–6

Effects of calcium gluconate on the utilization of magnesium and the nephrocalcinosis in rats fed excess dietary phosphorus and calcium. Chonan O, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Aug;42(4):313–23

Hemodynamic effects of calcium gluconate administered to conscious horses. Grubb TL, et al. **J Vet Intern Med** 1996 Nov–Dec;10(6):401–4

Felodipine– and ethanol–induced gastric mucosal damage in rats. Liu XG, et al. **Pharmacology** 1995 Dec;51(6):391–7

[The effect of calcium gluconate on the acute and chronic toxicity of doxorubicin in mice] Bogush TA, et al. **Antibiot Khimioter** 1997;42(1):17–22 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Calcium supplementation and ototoxicity in patients receiving cisplatin. Grau JJ, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):233–5

The management of post–thyroidectomy hypocalcemia. Szubin L, et al. **Ear Nose Throat J** 1996 Sep;75(9):612–4, 616

CALCIUM HYDROXIDE

ADVERSE EFFECTS

An unusual corneal injury [letter] Newsom RS, et al. **Br J Ophthalmol** 1996 Dec;80(12):1112–3

CHEMISTRY

Rehydration of desiccated Baralyme prevents carbon monoxide formation from desflurane in an anesthesia machine. Baxter PJ, et al. **Anesthesiology** 1997 May; 86(5):1061–5

PHARMACOLOGY

Baralyme dehydration increases and soda lime dehydration decreases the concentration of compound A resulting from sevoflurane degradation in a standard anesthetic circuit. Eger EI 2nd, et al. **Anesth Analg** 1997 Oct;85(4):892–8

Apexification: case report. Parashos P. **Aust Dent J** 1997 Feb; 42(1):43–6

Inability of calcium hydroxide to induce reparative dentinogenesis at non–peripheral sites of dog dental pulp. Tziafas D, et al. **Eur J Oral Sci** 1996 Oct–Dec; 104(5–6):623–6

Comparison of calcium phosphate cement mixture and pure calcium hydroxide as direct pulp–capping agents. Chaung HM, et al. **J Formos Med Assoc** 1996 Jul;95(7):545–50

THERAPEUTIC USE

Success of electrofulguration pulpotomies covered by zinc oxide and eugenol or calcium hydroxide: a clinical study. Fishman SA, et al. **Pediatr Dent** 1996 Sep–Oct;18(5):385–90

Re: A comparison of pulpal response to freeze–dried bone, calcium–hydroxide, and zinc oxide–eugenol in primary teeth in two cynomolgus monkeys. S Fadavi, AW Anderson. Pediatr Dent 18:52–56, 1996 [letter; comment] Langeland K. **Pediatr Dent** 1996 May–Jun;18(3):190–3. Comment on: Pediatr Dent 1996 Jan–Feb;18(1):52–6.

CALCIUM HYDROXYAPATITE see **DURAPATITE**

CALCIUM INHIBITORS, EXOGENOUS see **CALCIUM CHANNEL BLOCKERS**

CALCIUM ISOTOPES

Adenosine A2 receptor activation facilitates 45Ca2+ uptake by rat brain synaptosomes. Gonçalves ML, et al. **Eur J Pharmacol** 1996 Aug 29;310(2–3):257–61

CALCIUM LEUCOVORIN see **LEUCOVORIN**

CALCIUM MAGNESIUM ADENOSINETRIPHOSPHATASE see **CA(2+) MG(2+)–ATPASE**

CALCIUM MAGNESIUM ATPASE see **CA(2+)**

MG(2+)-ATPASE

CALCIUM METABOLISM DISORDERS

COMPLICATIONS

[The role of dietary calcium in hypertensive disease: update and clinical implications] Zgheib A, et al. **J Med Liban** 1995;43(2):89–96 (77 ref.) **(Fre)**

DIAGNOSIS

[Sarcoidosis with calcium-related nephropathy] Dobin VL, et al. **Ter Arkh** 1993;65(2):62–3 **(Rus)**

DRUG THERAPY

[The use of xidifon for the correction of phosphorus-calcium metabolism in patients in the terminal stage of chronic kidney failure who are on programmed hemodialysis] Konstantinova OV, et al. **Urol Nefrol (Mosk)** 1997 May–Jun;(3):23–5 (Eng. Abstr.) **(Rus)**

ETIOLOGY

[Hypercalciuria: etiologies and treatment] Dumas R. **Arch Pediatr** 1997 Apr;4(4):351–8 (13 ref.) (Eng. Abstr.) **(Fre)**

[Studies of calcium metabolism in patients with hypercalciuria] Bichler KH, et al. **Urologe A** 1996 Sep; 35(5):408–12 (Eng. Abstr.) **(Ger)**

GENETICS

Re: Family pattern of idiopathic hypercalciuria and its subtypes [letter; comment] Goodman HO, et al. **J Urol** 1996 Dec;156(6):2012. Comment on: J Urol 1996 Mar;155(3):1042–4.

Osteochondrodysplasias, dysostoses, disorders of calcium metabolism, congenital malformations with skeletal involvement mapped on human chromosomes. Frézal J, et al. **Pediatr Radiol** 1997 May;27(5):366–87

THERAPY

[Hypercalciuria: etiologies and treatment] Dumas R. **Arch Pediatr** 1997 Apr;4(4):351–8 (13 ref.) (Eng. Abstr.) **(Fre)**

ULTRASONOGRAPHY

[Hyperechogenicity of the renal medulla in children: clinico-echographic correlations] Sorino P, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):117–23 (Eng. Abstr.) **(Ita)**

URINE

The cause of maintained hypercalciuria after the surgical cure of primary hyperparathyroidism is a defect in renal calcium reabsorption. Farias ML, et al. **J Endocrinol Invest** 1996 Jan;19(1):12–20

Persistent hypercalciuria and elevated 25-hydroxyvitamin D3 in children with infantile hypercalcaemia. Pronicka E, et al. **Pediatr Nephrol** 1997 Feb;11(1):2–6

CALCIUM OXALATE

Effect of seed crystals of uric acid and monosodium urate on the crystallization of calcium oxalate in undiluted human urine in vitro. Grover PK, et al. **Clin Sci (Colch)** 1997 Feb; 92(2):205–13

Lipid peroxidation in ethylene glycol induced hyperoxaluria and calcium oxalate nephrolithiasis. Thamilselvan S, et al. **J Urol** 1997 Mar;157(3):1059–63

Medical therapy, calcium oxalate urolithiasis. Ruml LA, et al. **Urol Clin North Am** 1997 Feb;24(1):117–33 (148 ref.)

Genes in idiopathic calcium oxalate stone disease. Goodman HO, et al. **World J Urol** 1997;15(3):186–94 (51 ref.)

ANALYSIS

Crystalline composition of equine urinary sabulous deposits. Díaz-Espineira M, et al. **Scanning Microsc** 1995; 9(4):1071–7; discussion 1077–9

Pure silicate fragment in a recurrent stone former of calcium oxalate. Ichiyanagi O, et al. **Urol Int** 1997;58(3):192–6

Double-J ureteric stent encrustations: clinical study on crystal formation on polyurethane stents. Robert M, et al. **Urol Int** 1997;58(2):100–4

Effect of mineral water containing calcium and magnesium on calcium oxalate urolithiasis risk factors. Rodgers AL. **Urol Int** 1997;58(2):93–9

Glycosaminoglycan content of Ca-oxalate stone matrix. Effect of this factor on stone fragility. Sarica K, et al. **Urol Int** 1997;58(1):43–6

ANTAGONISTS & INHIBITORS

Characterization of Ca(2+)-binding sites in the kidney stone inhibitor glycoprotein nephrocalcin using vanadyl ions: different metal binding properties in strong and weak inhibitor proteins revealed by EPR and ENDOR. Mustafi D, et al. **Biochemistry** 1996 Nov 26;35(47):14703–9

Inhibition of calcium oxalate urolithiasis in a rat model of lithogenesis using bisphosphonates. Gupta M, et al. **J Endourol** 1997 Feb;11(1):1–4

Inhibitors of stone formation. Worcester EM. **Semin Nephrol** 1996 Sep;16(5):474–86 (74 ref.)

Identification of a macromolecular crystal growth inhibitor in human urine as osteopontin. Sørensen S, et al. **Urol Res** 1995;23(5):327–34

CHEMISTRY

Does urinary oxalate interfere with the inhibitory role of glycosaminoglycans and semisynthetic sulfated polysaccharides in calcium oxalate crystallization? Cao LC, et al. **Eur Urol** 1997;31(4):485–92

Study of the effects of different substances on the early stages of papillary stone formation. Grases F, et al. **Nephron** 1996; 73(4):561–8

Induction of crystallization of calcium oxalate dihydrate in micellar solutions of anionic surfactants. Furedi-Milhofer H, et al. **Scanning Microsc** 1995;9(4):1061–69; discussion 1069–70

Morphological effects of glycosaminoglycans on calcium oxalate monohydrate crystals. Shirane Y, et al. **Scanning Microsc** 1995;9(4):1081–8; discussion 1088

Analysis of glycosaminoglycans induced in newly formed calcium oxalate crystals using an undiluted urine system. Suzuki K, et al. **Scanning Microsc** 1995;9(4):1089–95; discussion 1095–6

The role of the papilla in idiopathic calcium oxalate nephrolithiasis. Krautschick A, et al. **World J Urol** 1997; 15(4):213–8 (59 ref.)

[Uronic-acid-rich protein: a new glycoprotein inhibiting the crystallization of calcium oxalate in vitro] Atmani F, et al. **Nephrologie** 1996;17(3):157–62 (57 ref.) (Eng. Abstr.) **(Fre)**

METABOLISM

The infant with primary hyperoxaluria and oxalosis: from diagnosis to multiorgan transplantation. Bunchman TE, et al. **Adv Ren Replace Ther** 1996 Oct;3(4):315–25 (31 ref.)

Surface exposure of phosphatidylserine increases calcium oxalate crystal attachment to IMCD cells. Bigelow MW, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):F55–62

Adhesion of calcium oxalate monohydrate crystals to anionic sites on the surface of renal epithelial cells. Lieske JC, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F192–9

Glycosaminoglycans in crystal-surface binding substances and their role in calcium oxalate crystal growth. Yoshimura K, et al. **Br J Urol** 1997 Jul;80(1):64–8

The dependence on membrane fluidity of calcium oxalate crystal attachment to IMCD membranes. Bigelow MW, et al. **Calcif Tissue Int** 1997 Apr;60(4):375–9

Face-selective adhesion of calcium oxalate dihydrate crystals to renal epithelial cells. Lieske JC, et al. **Calcif Tissue Int** 1996 Mar;58(3):195–200

Clinical and biochemical patterns of presentation in monolateral and bilateral calcium nephrolithiasis. Vitale C, et al. **Clin Nephrol** 1997 Jan;47(1):23–7

Idiopathic calcium oxalate urolithiasis and endogenous oxalate production. Baker PW, et al. **Crit Rev Clin Lab Sci** 1996 Jan;33(1):39–82 (250 ref.)

Secondary oxalosis: a cause of delayed recovery of renal function in the setting of acute renal failure. Alkhunaizi AM, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2320–6

Anomalous phospholipid n-6 polyunsaturated fatty acid composition in idiopathic calcium nephrolithiasis. Baggio B, et al. **J Am Soc Nephrol** 1996 Apr;7(4):613–20

The abnormal red-cell oxalate transport is a risk factor for idiopathic calcium nephrolithiasis: a prospective study. Gambaro G, et al. **J Am Soc Nephrol** 1996 Apr;7(4):608–12

Normal calcium oxalate crystal growth inhibition in severe calcium oxalate nephrolithiasis. Porile JL, et al. **J Am Soc Nephrol** 1996 Apr;7(4):602–7

Damage attributable to extracorporeal shockwave lithotripsy and deposition of calcium oxalate crystals on ureteral stents. Ikeda R, et al. **J Endourol** 1997 Apr;11(2):113–8

Vitamin E pretreatment prevents cyclosporin A-induced crystal deposition in hyperoxaluric rats. Selvam R, et al. **Nephron** 1997;75(1):77–81

Renal injury mediated calcium oxalate nephrolithiasis: role of lipid peroxidation. Muthukumar A, et al. **Ren Fail** 1997 May;19(3):401–8

Interaction of urinary crystals with renal epithelial cells in the pathogenesis of nephrolithiasis. Lieske JC, et al. **Semin Nephrol** 1996 Sep;16(5):458–73 (73 ref.)

Interactions between calcium oxalate monohydrate crystals and Madin-Darby canine kidney cells: endocytosis and cell proliferation. Kohjimoto Y, et al. **Urol Res** 1996;24(4):193–9

Oxalate transport and calcium oxalate renal stone disease [editorial] Verkoelen CF, et al. **Urol Res** 1996;24(4):183–91 (77 ref.)

Animal models of kidney stone formation: an analysis. Khan SR. **World J Urol** 1997;15(4):236–43 (52 ref.)

Risk formulas in calcium oxalate urolithiasis. Tiselius HG. **World J Urol** 1997;15(3):176–85 (50 ref.)

PHARMACOKINETICS

Histological observations of the adhesion and endocytosis of calcium oxalate crystals in MDCK cells and in rat and human kidney. Ebisuno S, et al. **Urol Int** 1997;58(4):227–31

PHARMACOLOGY

The effect of osteopontin on the adhesion of calcium oxalate crystals to Madin-Darby canine kidney cells. Yamate T, et al. **Eur Urol** 1996;30(3):388–93

Calcium phosphate/calcium oxalate crystal association in urinary stones: implications for heterogeneous nucleation of calcium oxalate. Khan SR. **J Urol** 1997 Jan;157(1):376–83

Renal cell osteopontin production is stimulated by calcium oxalate monohydrate crystals. Lieske JC, et al. **Kidney Int** 1997 Mar;51(3):679–86

POISONING

Suspected calcium oxalate raphide irritation in a black rhinoceros (Diceros bicornis) due to ingestion of Xanthosoma mafaffa [letter] Wood PA, et al. **J S Afr Vet Assoc** 1997 Mar;68(1):2

URINE

Evaluation of the risk of stone formation: study on crystalluria in patients with recurrent calcium oxalate urolithiasis. Robert M, et al. **Eur Urol** 1996;29(4):456–61

Risk factors in urinary calcium oxalate stone formation and their relation to urinary calcium oxalate supersaturation. Ogawa Y, et al. **Int J Urol** 1996 Sep;3(5):356–60

Comparison of the Equil2 program and other methods for estimating the ion-activity product of urinary calcium oxalate: a new simplified method is proposed. Ogawa Y, et al. **Int J Urol** 1996 Sep;3(5):383–5

Urinary calcium oxalate saturation in healthy infants and children. Hoppe B, et al. **J Urol** 1997 Aug;158(2):557–9

Lack of increased urinary calcium-oxalate supersaturation in long-term kidney transplant recipients. Dumoulin G, et al. **Kidney Int** 1997 Mar;51(3):804–10

N-acetyl-beta-D-glucosaminidase excretion in calcium oxalate stone patients and its relation to the risk of stone formation. Winter P, et al. **Scand J Urol Nephrol** 1996 Dec; 30(6):439–43

The inhibitory activity of some citrate analogues upon calcium crystalluria: observations using an improved urine evaporation technique. Hallson PC, et al. **Urol Int** 1996; 57(1):43–7

Association of urinary macromolecules with calcium oxalate crystals induced in vitro in normal human and rat urine. Atmani F, et al. **Urol Res** 1996;24(1):45–50

Estimated levels of supersaturation with calcium phosphate and calcium oxalate in the distal tubule. Tiselius HG. **Urol Res** 1997;25(2):153–9

Urinary inhibitors of calcium oxalate crystallization and their potential role in stone formation. Ryall RL. **World J Urol** 1997;15(3):155–64 (141 ref.)

Cystic fibrosis and calcium oxalate nephrolithiasis. Chidekel AS, et al. **Yale J Biol Med** 1996 Jul–Aug;69(4):317–21

[Inhibitory effect of oral administration of Takusya on calcium oxalate crystallization in human whole urine] Honda M, et al. **Hinyokika Kiyo** 1997 May;43(5):333–7 (Eng. Abstr.) **(Jpn)**

CALCIUM PHOSPHATES

Addition of glycerol during DNA exposure enhances calcium phosphate transfection. Wilson SP, et al. **Anal Biochem** 1997 Mar 1;246(1):148–50

Calcium phosphate bone cement--the Norian skeletal repair system in orthopedic surgery. Cohen MS, et al. **AORN J** 1997 May;65(5):958–62

Initiation of alveolar ridge augmentation in the rat mandible by subperiosteal implantation of octacalcium phosphate. Kamakura S, et al. **Arch Oral Biol** 1996 Nov;41(11):1029–38

Stabilization of an inserted tricalcium phosphate spacer enhances the healing of a segmental tibial defect in sheep. Gao TJ, et al. **Arch Orthop Trauma Surg** 1997;116(5):290–4

Morphological and biomechanical difference in healing in segmental tibial defects implanted with Biocoral or tricalcium phosphate cylinders. Gao TJ, et al. **Biomaterials** 1997 Feb;18(3):219–23

In vivo study of a calcium phosphate cement consisting of alpha-tricalcium phosphate/dicalcium phosphate dibasic/tetracalcium phosphate monoxide. Kurashina K, et al. **Biomaterials** 1997 Jan;18(2):147–51

In vivo study of calcium phosphate cements: implantation of an alpha-tricalcium phosphate/dicalcium phosphate dibasic/tetracalcium phosphate monoxide cement paste. Kurashina K, et al. **Biomaterials** 1997 Apr;18(7):539–43

Differences of bone bonding ability and degradation behaviour in vivo between amorphous calcium phosphate and highly crystalline hydroxyapatite coating. Nagano M, et al. **Biomaterials** 1996 Sep;17(18):1771–7

Clinical and histologic aspects of biphasic calcium phosphate ceramic (BCP) used in connection with implant placement. Piattelli A, et al. **Biomaterials** 1996 Sep;17(18):1767–70

Calcium phosphate ceramic coatings as carriers of vancomycin. Radin S, et al. **Biomaterials** 1997 Jun; 18(11):777–82

Effect of pH on protein adsorption to hydroxyapatite and tricalcium phosphate ceramics. Sharpe JR, et al. **Biomaterials** 1997 Mar;18(6):471–6

Composites of bone morphogenetic protein (BMP) and type IV collagen, coral-derived coral hydroxyapatite, and tricalcium phosphate ceramics. Gao T, et al. **Int Orthop** 1996;20(5):321–5

Osseointegration in cortical sheep bone of calcium phosphate

implants evaluated by PIXE method and histology. Braye F, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):315–24

Surface-induced mineralization: a new method for producing calcium phosphate coatings. Campbell AA, et al. **J Biomed Mater Res** 1996 Sep;32(1):111–8

A histological and histomorphometrical evaluation of the application of screw-designed calciumphosphate (Ca–P)-coated implants in the cancellous maxillary bone of the goat. Caulier H, et al. **J Biomed Mater Res** 1997 Apr;35(1):19–30

Effects of hydroxypropyl methylcellulose and other gelling agents on the handling properties of calcium phosphate cement. Cherng A, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):273–7

Healing of gaps around calcium phosphate-coated implants in trabecular bone of the goat. Clemens JA, et al. **J Biomed Mater Res** 1997 Jul;36(1):55–64

The influence of sintering temperature on the proliferation of fibroblastic cells in contact with HA–bioceramics. Frayssinet P, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):337–47

Enhanced healing of segmental tibial defects in sheep by a composite bone substitute composed of tricalcium phosphate cylinder, bone morphogenetic protein, and type IV collagen. Gao TJ, et al. **J Biomed Mater Res** 1996 Dec; 32(4):505–12

Association of human growth hormone and calcium phosphate by dynamic compaction: in vitro biocompatibility and bioactivity. Guicheux J, et al. **J Biomed Mater Res** 1997 Aug;36(2):258–64

A self-setting TTCP-DCPD apatite cement for release of vancomycin. Hamanishi C, et al. **J Biomed Mater Res** 1996 Fall;33(3):139–43

Evaluation of plasma-spray and magnetron-sputter Ca–P-coated implants: an in vivo experiment using rabbits. Hulshoff JE, et al. **J Biomed Mater Res** 1996 Jul; 31(3):329–37

Mechanical and histologic evaluation of Ca–P plasma-spray and magnetron sputter-coated implants in trabecular bone of the goat. Hulshoff JE, et al. **J Biomed Mater Res** 1997 Jul;36(1):75–83

Non-decay type fast-setting calcium phosphate cement: hydroxyapatite putty containing an increased amount of sodium alginate. Ishikawa K, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):393–9

In vitro properties of a chitosan-bonded bone-filling paste: studies on solubility of calcium phosphate compounds. Ito M, et al. **J Biomed Mater Res** 1996 Sep;32(1):95–8

Bone-bonding behavior of plasma-sprayed coatings of BioglassR, AW-glass ceramic, and tricalcium phosphate on titanium alloy. Kitsugi T, et al. **J Biomed Mater Res** 1996 Feb;30(2):261–9

Influence of substrate material and surface finishing on the morphology of the calcium–phosphate coating. Leitão E, et al. **J Biomed Mater Res** 1997 Jul;36(1):85–90

Resorption of, and bone formation from, new beta-tricalcium phosphate–monocalcium phosphate cements: an in vivo study. Ohura K, et al. **J Biomed Mater Res** 1996 Feb; 30(2):193–200

Development of tricalcium phosphate/amylopectin paste combined with recombinant human transforming growth factor beta 1 as a bone defect filler. Ongpipattanakul B, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):295–305

Evaluation of factors affecting bonding rate of calcium phosphate ceramic coatings for in vivo strain gauge attachment. Szivek JA, et al. **J Biomed Mater Res** 1996 Fall;33(3):121–32

Heterogeneous nucleation of calcium phosphates on solid surfaces in aqueous solution. Wu W, et al. **J Biomed Mater Res** 1997 Apr;35(1):93–9

Evaluation of Ca–P coatings in animal experiments: importance of study design. Jansen JA, et al. **J Invest Surg** 1996 Nov–Dec;9(6):463–79 (26 ref.)

Liposomes-coated hydroxyapatite and tricalcium phosphate implanted in the mandibular bony defect of miniature swine. Huang JS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):213–28

Restoration of pedicle screw fixation with an in situ setting calcium phosphate cement. Moore DC, et al. **Spine** 1997 Aug 1;22(15):1696–705

Assessment of osteogenic potential of the natural origin bioceramics implanted into the human infrabony periodontal defects. Ljušković B, et al. **Vojnosanit Pregl** 1996 Mar–Apr;53(2):91–100 **(Eng, Scr)**

[Tricalcium phosphate and gentamycin. In vitro and in vivo antibiotic diffusion, rehabilitation in bone site in sheep] Prat-Poiret N, et al. **Chirurgie** 1996;121(4):298–308 (36 ref.) (Eng. Abstr.) **(Fre)**

[Antibiotic release by tricalcic phosphate bone implantation. In vitro and in vivo pharmacokinetics of different galenic forms] Thomazeau H, et al. **Chirurgie** 1997 Jan; 121(9–10):663–6 (Eng. Abstr.) **(Fre)**

[Intraperitoneal administration of carboplatin loaded alpha-tricalcium phosphate (alpha-TCP) particles in rats bearing abdominal carcinomatosis] Ueda T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1512–5 (Eng. Abstr.) **(Jpn)**

[Ectopic bone induction in recombinant human bone morphogenetic protein-2 (rhBMP-2) combined with biphasic calcium phosphate (BCP)] Oda S, et al. **Kokubyo Gakkai Zasshi** 1996 Sep;63(3):468–77 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Influence of dietary calcium phosphate on the disposition of bilirubin in rats with unconjugated hyperbilirubinemia. Van Der Veere CN, et al. **Hepatology** 1996 Sep;24(3):620–6

Injectable calcium phosphate in the treatment of distal radial fractures. Kopylov P, et al. **J Hand Surg [Br]** 1996 Dec; 21(6):768–71

Augmentation of femoral neck fracture fixation with an injectable calcium–phosphate bone mineral cement. Stankewich CJ, et al. **J Orthop Res** 1996 Sep;14(5):786–93

ADVERSE EFFECTS

White milky color veils dirt [letter; comment] Matsusue S. **JPEN J Parenter Enteral Nutr** 1996 Nov–Dec;20(6):435. Comment on: JPEN J Parenter Enteral Nutr 1996 Jan–Feb;20(1):81–7.

R: calcium, phosphate, and Secundum artem. Newton DW. **Nutrition** 1997 Apr;13(4):390–1

ANALYSIS

Human supragingival in vivo calculus formation in relation to saturation of saliva with respect to calcium phosphates. Poff AM, et al. **Arch Oral Biol** 1997 Feb;42(2):93–9

Formation of brushite, monetite and whitlockite during equilibration of human enamel with acid solutions at 37 degrees C. Shellis RP, et al. **Caries Res** 1997;31(1):71–7

Intraosseous secondary calcium salt crystal deposition: an artefact of acid decalcification. Keen CE, et al. **Histopathology** 1995 Aug;27(2):181–5

ADRF differential cross polarization spectroscopy of synthetic calcium phosphates and bone mineral. Ramanathan C, et al. **J Magn Reson** 1997 Jul;127(1):26–35

Association of magnesium whitlockite crystals with lipid components of the extracellular matrix in human articular cartilage. Scotchford CA, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):107–19

ANTAGONISTS & INHIBITORS

Effects of a rhubarb (Rhei rhizoma) solution and its fractions on the formation of calcium phosphate precipitates. Hidaka S, et al. **J Periodontal Res** 1996 Aug;31(6):408–13

BLOOD

Non-decay type fast-setting calcium phosphate cement: setting behaviour in calf serum and its tissue response. Miyamoto Y, et al. **Biomaterials** 1996 Jul;17(14):1429–35

CHEMICAL SYNTHESIS

The biomimetics of enamel: a paradigm for organized biomaterials synthesis. Mann S. **Ciba Found Symp** 1997; 205:261–9; discussion 269–74

Artificial tooth enamel in the works [news] Mark AM. **J Am Dent Assoc** 1997 Mar;128(3):278, 282

Macroporous biphasic calcium phosphate ceramics: influence of five synthesis parameters on compressive strength. Bouler JM, et al. **J Biomed Mater Res** 1996 Dec;32(4):603–9

CHEMISTRY

A critical parameter determining the aging of DNA–calcium–phosphate precipitates. Seelos C. **Anal Biochem** 1997 Feb 1;245(1):109–11

In vitro calcium phosphate formation on a natural composite material, bamboo. Li SH, et al. **Biomaterials** 1997 Mar; 18(5):389–95

Hydrolysis and phase transition of alpha-tricalcium phosphate. Li Y, et al. **Biomaterials** 1997 May;18(10):737–41

Dynamic compaction: a new process to compact therapeutic agent-loaded calcium phosphates. Trécant M, et al. **Biomaterials** 1997 Jan;18(2):141–5

Influence of annealing temperature on RF magnetron sputtered calcium phosphate coatings. van Dijk K, et al. **Biomaterials** 1996 Feb;17(4):405–10

Promotion of calcification on carboxymethylchitin discs. Wan AC, et al. **Biomaterials** 1996 Aug;17(15):1529–34

Stability of radiofrequency magnetron sputtered calcium phosphate coatings under cyclically loaded conditions. Wolke JG, et al. **Biomaterials** 1997 Mar;18(6):483–8

Calcium phosphate as a gene carrier: electron microscopy. Yang YW, et al. **Biomaterials** 1997 Feb;18(3):213–7

Fluoride analysis of apatite crystals with a central planar OCP inclusion: concerning the role of F- ions on apatite/OCP/apatite structure formation. Iijima M, et al. **Calcif Tissue Int** 1996 Nov;59(5):377–84

The effects of magnesium on hydroxyapatite formation in vitro from CaHPO4 and Ca4(PO4)2O at 37.4 degrees C. Martin RI, et al. **Calcif Tissue Int** 1997 Jun;60(6):538–46

Biologic responses of autogenous bone and beta-tricalcium phosphate ceramics transplanted into bone defects to orthodontic forces. Hossain MZ, et al. **Cleft Palate Craniofac J** 1996 Jul;33(4):277–83

Mineral characterization in calcifying tissues: atomic, molecular and macromolecular perspectives. Landis WJ. **Connect Tissue Res** 1996;34(4):239–46 (44 ref.)

Adaptive crystal formation in normal and pathological calcifications in synthetic calcium phosphate and related biomaterials. Daculsi G, et al. **Int Rev Cytol** 1997; 172:129–91 (326 ref.)

Spectroscopic studies of a multiphasic polymer–ceramic mixture material. Nguyen TP, et al. **J Biomater Sci Polym Ed** 1996;8(2):141–9

Kinetic study of the setting reaction of a calcium phosphate bone cement. Fernández E, et al. **J Biomed Mater Res** 1996 Nov;32(3):367–74

Self-setting, bioactive, and biodegradable TTCP-DCPD apatite cement. Hamanishi C, et al. **J Biomed Mater Res** 1996 Nov;32(3):383–9

Aqueous formation of hydroxyapatite. Martin RI, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):299–308

The application of ion beam analysis to calcium phosphate-based biomaterials. Russell SW, et al. **J Biomed Mater Res** 1996 Feb;30(2):165–74

Histological and biomechanical evaluation of calcium phosphate coatings applied through surface-induced mineralization to porous titanium implants. Wheeler DL, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):539–43

Effects of hexafluorosilicate on the precipitate composition and dentine tubule occlusion by calcium phosphate. Kawasaki A, et al. **J Dent** 1996 Nov;24(6):429–34

Amorphous calcium phosphate: the contention of bone. Boskey AL. **J Dent Res** 1997 Aug;76(8):1433–6 (32 ref.)

Setting reaction and hardening of an apatitic calcium phosphate cement. Ginebra MP, et al. **J Dent Res** 1997 Apr;76(4):905–12

Solubility control of thin calcium–phosphate coating with rapid heating. Yoshinari M, et al. **J Dent Res** 1997 Aug; 76(8):1485–94

Pyrophosphate and adenosine 5'-diphosphate synthesis from phospho(enol)pyruvate: catalysis by phosphate minerals and modulation by dimethyl sulfoxide. Hermes-Lima M, et al. **J Mol Evol** 1997 Jan;44(1):106–11

Gentamicin-loaded hydraulic calcium phosphate bone cement as antibiotic delivery system. Bohner M, et al. **J Pharm Sci** 1997 May;86(5):565–72

High pressure effects on the colloidal calcium phosphate and the structural integrity of micellar casein milk. Part 1. High pressure dissolution of colloidal calcium phosphate in heated milk systems. Schrader K, et al. **Nahrung** 1997 Jun; 41(3):133–8

Organic phosphates in parenteral nutrition: pouring fresh water into an old bucket. Ronchera-oms CL, et al. **Nutrition** 1996 May;12(5):388–9

[Biologically active synthetic calcium phosphate-containing materials for dentistry] Leont'ev VK. **Stomatologiia (Mosk)** 1996;75(5):4–6 **(Rus)**

IMMUNOLOGY

Study of the immunostimulating effect of glycophosphopeptical (AM3) in mice. Gallego Olivella J, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):87–9

METABOLISM

Evidence of calcium phosphate supersaturation in the loop of Henle. Asplin JR, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):F604–13

Biodegradation of synthetic biphasic calcium phosphate by human monocytes in vitro: a morphological study. Benahmed M, et al. **Biomaterials** 1996 Nov;17(22):2173–8

Osteoclastic resorption of calcium phosphate ceramics with different hydroxyapatite/beta-tricalcium phosphate ratios. Yamada S, et al. **Biomaterials** 1997 Aug;18(15):1037–41

Fourier transform infrared spectroscopy of the solution-mediated conversion of amorphous calcium phosphate to hydroxyapatite: new correlations between X-ray diffraction and infrared data. Gadaleta SJ, et al. **Calcif Tissue Int** 1996 Jan;58(1):9–16

Effect of solution pH on the calcium phosphates formation and ionic diffusion on and through the collagenous matrix. Iijima MY, et al. **Connect Tissue Res** 1997;36(2):73–83

Phosphopeptides interacting with colloidal calcium phosphate isolated by tryptic hydrolysis of bovine casein micelles. Gagnaire V, et al. **J Dairy Res** 1996 Aug; 63(3):405–22

The influence of trace elements on calcium phosphate formation by matrix vesicles. Sauer GR, et al. **J Inorg Biochem** 1997 Jan;65(1):57–65

PHARMACOLOGY

Bone tissue reactions to an electrophoretically applied calcium phosphate coating. Gottlander M, et al. **Biomaterials** 1997 Apr;18(7):551–7

In vitro interaction between tetracalcium phosphate-based cement and calvarial osteogenic cells. Yoshimine Y, et al. **Biomaterials** 1996 Dec;17(23):2241–5

Transfection maximizer increases the efficiency of calcium phosphate transfections with mammalian cells. Zhang G, et al. **Biotechniques** 1996 Nov;21(5):940–2, 944–5

The effects of acute phosphate supplementation in subjects of different aerobic fitness levels. Galloway SD, et al. **Eur J Appl Physiol** 1996;72(3):224–30

The immunosenescent phenotype in mice and humans can be defined by alterations in the natural immunity reversal by immunomodulation with oral AM3. Villarrubia VG, et al. **Immunopharmacol Immunotoxicol** 1997 Feb; 19(1):53–74

Phosphocitrate inhibits a basic calcium phosphate and calcium pyrophosphate dihydrate crystal-induced mitogen-activated protein kinase cascade signal transduction pathway. Nair D, et al. **J Biol Chem** 1997

Jul 25;272(30):18920–5
The effect of Ca–P plasma–sprayed coatings on the initial bone healing of oral implants: an experimental study in the goat. Caulier H, et al. **J Biomed Mater Res** 1997 Jan; 34(1):121–8
Effect of calcium phosphate ceramics on gram–negative bacteria resistant to antibiotics. Opalchenova G, et al. **J Biomed Mater Res** 1996 Nov;32(3):473–9
A study of the influence of biphase calcium phosphate ceramics on bacterial strains: in vitro approach. Opalchenova G, et al. **J Biomed Mater Res** 1996 Jun; 31(2):219–26
Effects of calcium phosphate bioceramics on skeletal muscle cells. Sun JS, et al. **J Biomed Mater Res** 1997 Feb; 34(2):227–33
Surface instability of calcium phosphate ceramics in tissue culture medium and the effect on adhesion and growth of anchorage–dependent animal cells. Suzuki T, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):507–17
Comparison of calcium phosphate cement mixture and pure calcium hydroxide as direct pulp–capping agents. Chaung HM, et al. **J Formos Med Assoc** 1996 Jul;95(7):545–50
Calcium phosphate/calcium oxalate crystal association in urinary stones: implications for heterogeneous nucleation of calcium oxalate. Khan SR. **J Urol** 1997 Jan;157(1):376–83
Ultrastructural study of the osteointegration of bioceramics (whitlockite and composite beta–TCP + collagen) in rabbit bone. Vicente V, et al. **Ultrastruct Pathol** 1996 Mar–Apr; 20(2):179–188

THERAPEUTIC USE

Evaluation of collagen ceramic composite graft materials in a spinal fusion model [letter; comment] Harner CF. **Clin Orthop** 1997 Jun;(339):285–7. Comment on: Clin Orthop 1996 Jul;(328):250–60.
Oral calcium phosphate: a new therapy for Crigler–Najjar disease? [see comments] Van der Veere CN, et al. **Gastroenterology** 1997 Feb;112(2):455–62. Comment in: Gastroenterology 1997 Feb;112(2):649–51.
Treatment of acute fractures with a collagen–calcium phosphate graft material. A randomized clinical trial. Chapman MW, et al. **J Bone Joint Surg Am** 1997 Apr; 79(4):495–502
Remineralization of enamel subsurface lesions by casein phosphopeptide–stabilized calcium phosphate solutions. Reynolds EC. **J Dent Res** 1997 Sep;76(9):1587–95
Quantitative assessment of the efficacy of amorphous calcium phosphate/methacrylate composites in remineralizing caries–like lesions artificially produced in bovine enamel. Skrtic D, et al. **J Dent Res** 1996 Sep;75(9):1679–86
The reinforcement of cancellous bone screws with calcium phosphate cement. Mermelstein LE, et al. **J Orthop Trauma** 1996;10(1):15–20
Protective effects of dietary lactulose and calcium phosphate against Salmonella infection. Bovee–Oudenhoven I, et al. **Scand J Gastroenterol Suppl** 1997;222:112–4
[Effect of various modern drugs on the interferon system and phagocytosis in patients with lichen ruber planus] Kubanova AA, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):235–7 **(Rus)**

TOXICITY

Local tissue irritating effects and adjuvant activities of calcium phosphate and aluminium hydroxide with different physical properties. Goto N, et al. **Vaccine** 1997 Aug–Sep; 15(12–13):1364–71

URINE

Intravenous aminophylline increases the degree of saturation of urine with calcium phosphate and struvite. Siwińska A, et al. **Int Urol Nephrol** 1997;29(2):141–6
The inhibitory activity of some citrate analogues upon calcium crystalluria: observations using an improved urine evaporation technique. Hallson PC, et al. **Urol Int** 1996; 57(1):43–7
Estimated levels of supersaturation with calcium phosphate and calcium oxalate in the distal tubule. Tiselius HG. **Urol Res** 1997;25(2):153–9

CALCIUM PHOSPHOLIPID–DEPENDENT PROTEIN KINASE see **PROTEIN KINASE C**

CALCIUM PUMP see **CA(2+)–TRANSPORTING ATPASE**

CALCIUM PYROPHOSPHATE

see related
CHONDROCALCINOSIS

Subcutaneous extensor tendon rupture associated with calcium pyrophosphate dihydrate crystal deposition disease of the wrist. Taniguchi Y, et al. **J Hand Surg [Br]** 1997 Jun;22(3):386–7

ANTAGONISTS & INHIBITORS

Calcium pyrophosphate dihydrate crystals activate MAP kinase in human neutrophils: inhibition of MAP kinase, oxidase activation and degranulation responses of neutrophils by taxol. Jackson JK, et al. **Immunology** 1997 Apr;90(4):502–10

BLOOD

The interaction of monoclinic calcium pyrophosphate dihydrate crystals with neutrophils. Winternitz CI, et al. **Rheumatol Int** 1996;16(3):101–7

CHEMISTRY

The interaction of monoclinic calcium pyrophosphate dihydrate crystals with neutrophils. Winternitz CI, et al. **Rheumatol Int** 1996;16(3):101–7

METABOLISM

Tumoral calcium pyrophosphate dihydrate deposition disease: cytopathologic findings on fine–needle aspiration. Allen EA, et al. **Diagn Cytopathol** 1996 Nov;15(4):349–51
Inhibition of calcium pyrophosphate dihydrate crystal formation in articular cartilage vesicles and cartilage by phosphocitrate. Cheung HS, et al. **J Biol Chem** 1996 Nov 8;271(45):28082–5
Polyamines enhance calcium pyrophosphate dihydrate crystal dissolution. Shinozaki T, et al. **J Rheumatol** 1995 Oct;22(10):1907–12
Mixed monosodium urate and calcium pyrophosphate crystal–induced arthropathy. A review of seventeen cases. Jaccard YB, et al. **Rev Rhum Engl Ed** 1996 May;63(5):331–5
Radiologic manifestations of the crystal–related arthropathies. Uri DS, et al. **Semin Roentgenol** 1996 Jul; 31(3):229–38 (52 ref.)
Cervical myelopathy secondary to calcium pyrophosphate crystal deposition in the alar ligament. Kuzma BB, et al. **Surg Neurol** 1997 May;47(5):498–9

PHARMACOLOGY

Phosphocitrate inhibits a basic calcium phosphate and calcium pyrophosphate dihydrate crystal–induced mitogen–activated protein kinase cascade signal transduction pathway. Nair D, et al. **J Biol Chem** 1997 Jul 25;272(30):18920–5
The involvement of phosphatidylinositol 3–kinase in crystal induced human neutrophil activation. Jackson JK, et al. **J Rheumatol** 1997 Feb;24(2):341–8

CALCIUM PYROPHOSPHATE DIHYDRATE DEPOSITION see **CHONDROCALCINOSIS**

CALCIUM RADIOISOTOPES

ANALYSIS

Long–term effects of ovariectomy on the mechanical properties and chemical composition of rat bone. Peng ZQ, et al. **Bone** 1997 Mar;20(3):207–12

DIAGNOSTIC USE

Calcium 45 autoradiography and dual–isotope single–photon emission CT in a canine model of cerebral ischemia and middle cerebral artery occlusion. Purdy PD, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1161–70

METABOLISM

Estimation of radioactive calcium absorption based on expanding Ca–exchangeable space. Jovanović V, et al. **Coll Antropol** 1997 Jun;21(1):195–202

PHARMACOKINETICS

Cerebral calcium fluxes and calcium homeostasis in the rat: a minimal model. Ghosh S, et al. **Neurol Res** 1997 Aug; 19(4):403–8

CALCIUM SULFATE

Beta particle attenuation characteristics of CaSO4. Abdulhay I, et al. **Health Phys** 1997 May;72(5):784–7
Gamma doses from phospho–gypsum plaster–board. O'Brien RS. **Health Phys** 1997 Jan;72(1):92–6
Dimensional accuracy of improved dental stone and epoxy resin die materials. Part I: Single die. Chaffee NR, et al. **J Prosthet Dent** 1997 Feb;77(2):131–5
Dimensional accuracy of improved dental stone and epoxy resin die materials. Part II: Complete arch form. Chaffee NR, et al. **J Prosthet Dent** 1997 Mar;77(3):235–8
Repair of posterior base of a maxillary complete denture by use of a cast of stone and resilient material. Lee S, et al. **J Prosthet Dent** 1995 Nov;74(5):546–8

ADVERSE EFFECTS

Allergic contact dermatitis from benzalkonium chloride in plaster of Paris. Stanford D, et al. **Contact Dermatitis** 1996 Dec;35(6):371–2

CHEMISTRY

X–ray diffraction study of crystalline phases of calcium sulphate in alginate impression materials. Anastassiadou V, et al. **Eur J Oral Sci** 1996 Oct–Dec;104(5–6):637–40
Properties of gypsum with the addition of gum arabic and calcium hydroxide. Alsadi S, et al. **J Prosthet Dent** 1996 Nov;76(5):530–4
Improved fit of maxillary complete dentures processed on high expansion stone casts. Sykora O, et al. **J Prosthet Dent** 1997 Feb;77(2):205–8
Studies on aluminium leaching from cookware in tea and coffee and estimation of aluminium content in toothpaste, baking powder and paan masala. Rajwanshi P, et al. **Sci Total Environ** 1997 Jan 30;193(3):243–9

POISONING

Sheep deaths after accidental ingestion of gypsum fertiliser. Dent CH. **Aust Vet J** 1997 Jan;75(1):26–7

THERAPEUTIC USE

An implant of a composite of bovine bone morphogenetic protein and plaster of paris for treatment of femoral shaft nonunions. Bai MH, et al. **Int Surg** 1996 Oct–Dec; 81(4):390–2

TOXICITY

[Experimental studies on the effect of the dust of phosphogypsum and its derivatives] Khodykina TM, et al. **Gig Sanit** 1996 Jul–Aug;(4):10–2 (Eng. Abstr.) **(Rus)**

CALCIUM TRANSPORT PROTEINS see **CALCIUM–BINDING PROTEINS**

CALCULATORS, PROGRAMMABLE see **COMPUTERS**

CALCULI

see related
LITHOTRIPSY

Chronic lithoptysis with multiple bilateral broncholiths. Samson IM, et al. **Chest** 1997 Aug;112(2):563–5
Pulmonary microlithiasis. Report of two cases. Mariotta S, et al. **Respiration** 1997;64(2):165–9

CHEMISTRY

Laser fragmentation of pancreatic duct stones using a rhodamine laser with an automatic stone–tissue detection system. Basic in–vitro studies. Jakobs R, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):563–8
Lacrimal sac dacryolith: a study wit atomic absorption spectrophotometry and scanning electron microscopy. Orhan M, et al. **Eur J Ophthalmol** 1996 Oct–Dec; 6(4):478–80
Dissolution of artificial (natural) stones in a standard model: first results. Heimbach D, et al. **J Endourol** 1997 Feb; 11(1):63–6
Animal models of kidney stone formation: an analysis. Khan SR. **World J Urol** 1997;15(4):236–43 (52 ref.)
Cell cultures and nephrolithiasis. Verkoelen CF, et al. **World J Urol** 1997;15(4):229–35 (84 ref.)

COMPLICATIONS

Dumbbell stone of prostatic fossa after prostatectomy. A combined ESWL and suprapubic percutaneous treatment. Melone F, et al. **Acta Urol Belg** 1996 Dec;64(4):27–31
Testicular microlithiasis and subsequent development of metastatic germ cell tumor. Frush DP, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):889–90
Small bowel obstruction secondary to enterolith impaction complicating jejunal diverticulitis. Harris LM, et al. **Am J Gastroenterol** 1997 Sep;92(9):1538–40 (16 ref.)
A case of cellulitis of the big toe? Cooper JR, et al. **Br J Radiol** 1997 Feb;70:223–4
Acute retention of urine due to a loose peritoneal body. Bhandarwar AH, et al. **Br J Urol** 1996 Dec;78(6):951–2
Recurrent epididymo–orchitis in a child secondary to a stone in the seminal vesicle. Carachi R, et al. **Br J Urol** 1997 Jun;79(6):997
Blood cyst with a calcium stone originating from the right atrial septum. Niinami H, et al. **Cardiovasc Surg** 1996 Apr; 4(2):260–2
Meckel's diverticulitis secondary to an enterolith. Spence LD, et al. **Eur J Radiol** 1995 Dec 15;21(2):92–3
Hypoplastic right hepatic lobe with retrohepatic gallbladder complicated by hepatolithiasis and liver abscess: a case report. Hsu KL, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):803–7
Painful ejaculation due to seminal vesicle calculi. Corriere JN Jr. **J Urol** 1997 Feb;157(2):626
Pseudomonas dacryoadenitis secondary to a lacrimal gland ductule stone. Mawn LA, et al. **Ophthal Plast Reconstr Surg** 1997 Jun;13(2):135–8
Small bowel obstruction by jejunal enterolith. Phelan M, et al. **Surgery** 1997 Feb;121(2):229–30
Testicular microlithiasis associated with seminoma: Gray–scale and color Doppler ultrasound findings. Yagci C, et al. **Urol Int** 1996;57(4):255–8
Diffuse testicular microlithiasis associated with intratubular germ cell neoplasia and seminoma. Kaveggia FF, et al. **Urology** 1996 Nov;48(5):794–6
Testicular microlithiasis as a predictor of intratubular germ cell neoplasia. Parra BL, et al. **Urology** 1996 Nov; 48(5):797–9
[A case of Lemmel's syndrome caused by a large diverticular enterolith at the peripapillary portion of the duodenum] Nishida K, et al. **Nippon Ronen Igakkai Zasshi** 1995 Dec; 32(12):825–9 (Eng. Abstr.) **(Jpn)**
[Alkaptonuria, prostatic calculi, and ectopic ureter] Concepción Masip T, et al. **Actas Urol Esp** 1997 Feb;

21(2):167–70 (Eng. Abstr.) **(Spa)**
[Testicular microlithiasis associated with infertility] González Sánchez FJ, et al. **Arch Esp Urol** 1997 Jan–Feb;50(1):71–4 (12 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Pulmonary alveolar microlithiasis: an alternative diagnosis to miliary tuberculosis [letter] Lee YC, et al. **Aust N Z J Med** 1997 Jun;27(3):336–7
A tonsillolith [letter] Jones JW. **Br Dent J** 1996 Feb 24; 180(4):128
A tonsillolith seen on MRI. el-Sherif I, et al. **Comput Med Imaging Graph** 1997 May–Jun;21(3):205–8
Glucagonoma associated with calculous pancreatitis. Mao C, et al. **HPB Surg** 1996;9(2):77–81 (24 ref.)
Pulmonary microlithiasis [letter; comment] Guha D, et al. **J Assoc Physicians India** 1996 Nov;44(11):840–1. Comment on: J Assoc Physicians India 1996 Jan;44(1):56–7.
Enterolithiasis in Crohn's disease. Roy DD. **J Indian Med Assoc** 1996 Apr;94(4):162
[Pulmonary alveolar microlithiasis] Konovalov EP, et al. **Klin Khir** 1994;(12):31–3 (5 ref.) (Eng. Abstr.) **(Rus)**

ETIOLOGY

Calculi within an anal fistula tract. Fahal AH, et al. **Br J Surg** 1997 Jul;84(7):1001
Vaginal stone in a teenager. Venet C, et al. **Br J Urol** 1997 May;79(5):804–5
Peritoneal lithiasis and cliptomas following laparoscopic cholecystectomy. Makanjuola D, et al. **Eur J Radiol** 1996 Sep;23(2):121–5
Recurrent hepatolithiasis after primary excision of choledochal cysts [letter; comment] Cetta F, et al. **J Am Coll Surg** 1997 Aug;185(2):198–200. Comment on: J Am Coll Surg 1996 Dec;183(6):583–8.
Rhinolithiasis. Celikkanat S, et al. **Rhinology** 1997 Mar; 35(1):39–40
[Meckel lithiasis. A rare complication of a Meckel's diverticulum] Esslinger P, et al. **Dtsch Med Wochenschr** 1997 Jan 3;122(1–2):18–20 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

[Broncholithiasis secondary to active Mycobacterium avium infection] Ruiz Martínez C, et al. **Arch Bronconeumol** 1996 Nov;32(9):486–8 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Basophilic deposits on the cupula: preliminary findings describing the problems involved in studies regarding the incidence of basophilic deposits on the cupula. Naganuma H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;524:9–15
Pulmonary alveolar microlithiasis. A clinicopathologic and chemical analysis of seven cases. Moran CA, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):607–11
Pulmonary alveolar microlithiasis in childhood: diagnosis by transbronchial biopsy. Wallis C, et al. **Pediatr Pulmonol** 1996 Jan;21(1):62–4
[Pulmonary alveolar microlithiasis presenting with prolonged cough] Barshack I, et al. **Harefuah** 1997 Jun 1; 132(11):748–50, 824 (Eng. Abstr.) **(Heb)**

PHYSIOPATHOLOGY

Treatment of salivary stones by extracorporeal lithotripsy. Aïdan P, et al. **Am J Otolaryngol** 1996 Jul–Aug; 17(4):246–50

RADIOGRAPHY

Meckel's enteroliths: clinical, radiologic, and pathologic findings. Pantongrag-Brown L, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1447–50
Massive enterolithiasis associated with ileal dysgenesis. Grassi R, et al. **Br J Radiol** 1997 Feb;70:207–9
Radiolucent pancreatic lithiasis: a precursor stage for calcified pancreatic lithiasis or a new entity? Barthet M, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):697–701
Calcific enterolithiasis. Sood PC, et al. **Trop Doct** 1997 Jul; 27(3):187–8
[A case of alveolar microlithiasis (letter)] Santiago J, et al. **Arch Bronconeumol** 1997 Jan;33(1):55 **(Spa)**
[Progressive exertional dyspnea and characteristic images in thoracic radiography] Fernández-Monrás F, et al. **Rev Clin Esp** 1997 Apr;197(4):287–8 **(Spa)**

SURGERY

Treatment of salivary stones by extracorporeal lithotripsy. Aïdan P, et al. **Am J Otolaryngol** 1996 Jul–Aug; 17(4):246–50
Intraoperative ultrasound-guided transhepatic lithotomy. A new alternative surgical procedure for the management of residual hepatic stones. Zhang W, et al. **Arch Surg** 1997 Mar;132(3):300–3
Endoscopic pancreatic drainage in chronic pancreatitis associated with ductal stones: long-term results [see comments] Dumonceau JM, et al. **Gastrointest Endosc** 1996 Jun;43(6):547–55. Comment in: Gastrointest Endosc 1996 Jun;43(6):625–6.
Endoscopic treatment of pancreatic stones in patients with chronic pancreatitis [see comments] Smits ME, et al. **Gastrointest Endosc** 1996 Jun;43(6):556–60. Comment in: Gastrointest Endosc 1996 Jun;43(6):625–6.
Role of right hepatic lobectomy in the treatment of isolated right-sided hepatolithiasis. Hung CJ, et al. **Surgery** 1997 Feb;121(2):130–4
[Transurethral resection in patients with benign prostatic hyperplasia complicated by chronic calculous prostatitis] Trapeznikova MF, et al. **Urol Nefrol (Mosk)** 1997 Jan–Feb; (1):28–31 (Eng. Abstr.) **(Rus)**

THERAPY

Ultrasound-guided extracorporeal shock wave lithotripsy of pancreatic ductal stones: six years' experience. Johanns W, et al. **Can J Gastroenterol** 1996 Nov–Dec;10(7):471–5
Mechanical lithotripsy of pancreatic duct stones. Freeman ML. **Gastrointest Endosc** 1996 Sep;44(3):333–6
Pancreatic stones: to treat or not to treat? [editorial; comment] Lehman GA, et al. **Gastrointest Endosc** 1996 Jun;43(6):625–6. Comment on: Gastrointest Endosc 1996 Jun;43(6):547–55. Comment on: Gastrointest Endosc 1996 Jun;43(6):556–60.
Transient oscillation of cavitation bubbles near stone surface during electrohydraulic lithotripsy. Zhong P, et al. **J Endourol** 1997 Feb;11(1):55–61
Extracorporeal shock wave lithotripsy for obstructing pancreatic duct calculi. Matthews K, et al. **J Urol** 1997 Aug;158(2):522–5
Impacted broncholiths removed with the holmium: YAG laser. McCaughan JS Jr, et al. **Lasers Surg Med** 1996; 19(2):230–2
Three hundred sixty-degree rotation of the posterior semicircular canal for treatment of benign positional vertigo: a placebo-controlled trial. Lempert T, et al. **Neurology** 1997 Sep;49(3):729–33
[The studies of extracorporeal shock wave lithotripsy (ESWL) for pancreatic ductal stones] Taki N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):101–10 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Detection of testicular microlithiasis by sonography [letter] Gooding GA. **AJR Am J Roentgenol** 1997 Jan;168(1):281–2
Intraoperative ultrasound-guided transhepatic lithotomy. A new alternative surgical procedure for the management of residual hepatic stones. Zhang W, et al. **Arch Surg** 1997 Mar;132(3):300–3
US case of the day. Benign cystic teratoma and testicular microlithiasis. Horowitz MB, et al. **Radiographics** 1997 May–Jun;17(3):793–6

ULTRASTRUCTURE

Lacrimal sac dacryolith: a study wit atomic absorption spectrophotometry and scanning electron microscopy. Orhan M, et al. **Eur J Ophthalmol** 1996 Oct–Dec; 6(4):478–80

CALDESMON see **CALMODULIN-BINDING PROTEINS**

CALELECTRIN 32 KD see **ANNEXIN IV**

CALELECTRIN 67 KD see **ANNEXIN VI**

CALELECTRINS see **ANNEXINS**

CALIBRATION

Calibration of micropipets using the bioluminescent protein aequorin. Grosvenor AL, et al. **Anal Chem** 1997 Aug 1; 69(15):3115–8
The role of individualized headphone calibration for the generation of high fidelity virtual auditory space. Pralong D. **J Acoust Soc Am** 1996 Dec;100(6):3785–93
Statistical comparison of DLT versus ILSSC in the calibration of a photogrammetric stereo-system. Borghese NA, et al. **J Biomech** 1997 Apr;30(4):409–13
A low profile human tendon force transducer: the influence of tendon thickness on calibration. Dennerlein JT, et al. **J Biomech** 1997 Apr;30(4):395–7
Long-term stability of rhinomanometer calibration. Sipilä J, et al. **J Otolaryngol** 1997 Feb;26(1):49–52
Calibration of trephine blade depth. Schor P, et al. **J Refract Surg** 1997 Jan–Feb;13(1):89–90

STANDARDS

Calibration verification of the International Normalized Ratio [see comments] [published erratum appears in Am J Clin Pathol 1997 Mar;107(3):379] Critchfield GC, et al. **Am J Clin Pathol** 1996 Dec;106(6):786–94. Comment in: Am J Clin Pathol 1996 Dec;106(6):699–700.
Calculation of System International Sensitivity Index: how many calibrant plasmas are required? Dufty JM, et al. **J Clin Pathol** 1997 Jan;50(1):40–4
[A progress in the standardization in clinical enzymology using calibrators adapted to several techniques] Dourson JL, et al. **Ann Biol Clin (Paris)** 1997 May–Jun;55(3):229–34 (Eng. Abstr.) **(Fre)**
[Calibration and quality control] Férard G, et al. **Ann Biol Clin (Paris)** 1997 Jan–Feb;55(1):50–1 **(Fre)**

CALICIVIRIDAE

The molecular biology of caliciviruses. Clarke IN, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):291–301 (76 ref.)

ISOLATION & PURIFICATION

The epidemiology of human calicivirus/Sapporo/82/Japan. Nakata S, et al. **Arch Virol Suppl** 1996;12:263–70 (20 ref.)
Epidemiology of Mexico virus, a small round-structured virus in Yorkshire, United Kingdom, between January 1992 and March 1995. Lewis DC, et al. **J Infect Dis** 1997 Apr; 175(4):951–4
Sensitive detection of human Caliciviridae by RT-PCR. Stene-Johansen K, et al. **J Med Virol** 1996 Nov; 50(3):207–13

CALICIVIRIDAE INFECTIONS

[Acute gastroenteritis caused by small round viruses] Haim M, et al. **Harefuah** 1997 Mar 16;132(6):427–31 (45 ref.) **(Heb)**

DIAGNOSIS

A strain of calicivirus isolated from lions with vesicular lesions on tongue and snout. Kadoi K, et al. **New Microbiol** 1997 Apr;20(2):141–8

EPIDEMIOLOGY

Detection and analysis of a small round-structured virus strain in oysters implicated in an outbreak of acute gastroenteritis. Le Guyader F, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4268–72
The epidemiology of human calicivirus/Sapporo/82/Japan. Nakata S, et al. **Arch Virol Suppl** 1996;12:263–70 (20 ref.)
An outbreak of viral gastroenteritis on a cruise ship. McEvoy M, et al. **Commun Dis Rep CDR Rev** 1996 Dec 6; 6(13):R188–92
Outbreak of small round structured virus gastroenteritis arose after kitchen assistant vomited. Patterson W, et al. **Commun Dis Rep CDR Rev** 1997 Jun 27;7(7):R101–3
Surveillance of outbreaks of small round structured virus infection. **Commun Dis Rep CDR Wkly** 1996 Mar 8;6(10):83, 86
Hospital outbreak of Norwalk-like virus. Russo PL, et al. **Infect Control Hosp Epidemiol** 1997 Aug;18(8):576–9
Longitudinal study of molecular epidemiology of small round-structured viruses in a pediatric population. Levett PN, et al. **J Clin Microbiol** 1996 Jun;34(6):1497–501
Study of Norwalk virus and Mexico virus infections at Ga-Rankuwa Hospital, Ga-Rankuwa, South Africa. Smit TK, et al. **J Clin Microbiol** 1997 Sep;35(9):2381–5
Viral gastroenteritis: small round structured viruses, caliciviruses and astroviruses. Part II. The epidemiological perspective. Caul EO. **J Clin Pathol** 1996 Dec; 49(12):959–64 (72 ref.)
Mixed genogroup SRSV infections among a party of canoeists exposed to contaminated recreational water. Gray JJ, et al. **J Med Virol** 1997 Aug;52(4):425–9
Capsid sequence diversity in small round structured viruses from recent UK outbreaks of gastroenteritis. Green SM, et al. **J Med Virol** 1997 May;52(1):14–9
Outbreaks of gastroenteritis in elderly nursing homes and retirement facilities associated with human caliciviruses. Jiang X, et al. **J Med Virol** 1996 Dec;50(4):335–41
Sequence analysis of SRSV in fecal specimens from an epidemic of infantile gastroenteritis, October to December 1995, Japan. Matsuno S, et al. **J Med Virol** 1997 Aug; 52(4):377–80
Parkville virus: a novel genetic variant of human calicivirus in the Sapporo virus clade, associated with an outbreak of gastroenteritis in adults. Noel JS, et al. **J Med Virol** 1997 Jun;52(2):173–8
Outbreak of viral gastroenteritis due to a contaminated well. International consequences. Beller M, et al. **JAMA** 1997 Aug 20;278(7):563–8
An outbreak of Norwalk-like virus infection in Tokyo and Saitama in late 1995. Akihara S, et al. **Kansenshogaku Zasshi** 1996 Aug;70(8):840–1
[Outbreak of non-bacterial gastroenteritis in a school] Gaulin C, et al. **Can J Public Health** 1996 Jul–Aug;87(4):264–7 (Eng. Abstr.) **(Fre)**
[Outbreak of food-borne gastroenteritis caused by a Norwalk-like virus. Evaluation of methods for confirmation of the etiology in suspected viral gastroenteritis] Andersen FR, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3325–8 (Eng. Abstr.) **(Nor)**

IMMUNOLOGY

Seroconversion in an industrial unit of rabbits infected with a non-pathogenic rabbit haemorrhagic disease-like virus. Capucci L, et al. **Vet Rec** 1997 Jun 21;140(25):647–50

PREVENTION & CONTROL

Oral immunization of rabbits with VP60 particles confers protection against rabbit hemorrhagic disease. Plana-Duran J, et al. **Arch Virol** 1996;141(8):1423–36
Protection against myxomatosis and rabbit viral hemorrhagic disease with recombinant myxoma viruses expressing rabbit hemorrhagic disease virus capsid protein. Bertagnoli S, et al. **J Virol** 1996 Aug;70(8):5061–6
Steaming oysters does not prevent Norwalk-like gastroenteritis. Kirkland KB, et al. **Public Health Rep** 1996

Nov-Dec;111(6):527-30
Protection of rabbits against rabbit viral haemorrhagic disease with a vaccinia-RHDV recombinant virus. Bertagnoli S, et al. **Vaccine** 1996 Apr;14(6):506-10
A recombinant canarypox virus protects rabbits against a lethal rabbit hemorrhagic disease virus (RHDV) challenge. Fischer L, et al. **Vaccine** 1997 Jan;15(1):90-6
Viral haemorrhagic disease of rabbits [letter] Taylor KC. **Vet Rec** 1996 Oct 26;139(17):427

VETERINARY

Feline calicivirus: a need for vaccine modification? Baulch-Brown C, et al. **Aust Vet J** 1997 Mar;75(3):209-13 (67 ref.)
People who live in glass houses... Pennisi E. **Curr Biol** 1996 Jan 1;6(1):9
A single dose immunization with rabbit haemorrhagic disease virus major capsid protein produced in Saccharomyces cerevisiae induces protection. Boga JA, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2315-8
Statutory controls on viral haemorrhagic disease of rabbits to be removed [news] Elliott J. **J Small Anim Pract** 1996 Nov;37(11):564
Calicivirus outbreak with high mortality in a Missouri feline colony. Turnquist SE, et al. **J Vet Diagn Invest** 1997 Apr; 9(2):195-8
Isolation of a calicivirus antigenically related to feline caliciviruses from feces of a dog with diarrhea. Gabriel SS, et al. **J Vet Med Sci** 1996 Oct;58(10):1041-3
Identification of canine calicivirus capsid protein and its immunoreactivity in western blotting. San Gabriel MC, et al. **J Vet Med Sci** 1997 Feb;59(2):97-101
European brown hare syndrome in free-ranging hares in Poland. Frölich K, et al. **J Wildl Dis** 1996 Apr;32(2):280-5
Detection of a non-cultivatable calicivirus from the white tern (Gygis alba rothschildi). Poet SE, et al. **J Wildl Dis** 1996 Jul;32(3):461-7
Rabbit haemorrhagic disease: the new scourge of Oryctolagus cuniculus. Chasey D. **Lab Anim** 1997 Jan;31(1):33-44 (138 ref.)
A strain of calicivirus isolated from lions with vesicular lesions on tongue and snout. Kadoi K, et al. **New Microbiol** 1997 Apr;20(2):141-8
Wide use of rabbit virus is good news for native species [news] [see comments] Drollette D. **Science** 1997 Jan 10; 275(5297):154. Comment in: Science 1997 Apr 4;276(5309):20.
Rabbit control in New Zealand [letter; comment] Duston TH. **Science** 1997 Apr 4;276(5309):20. Comment on: Science 1997 Jan 10;275(5297):154.
Rabbit control in New Zealand [letter; comment] van Roy Y. **Science** 1997 Apr 4;276(5309):20. Comment on: Science 1997 Jan 10;275(5297):154.
Feline calicivirus strain differentiation using monoclonal antibody analysis in an enzyme-linked immuno-flow-assay. McArdle F, et al. **Vet Microbiol** 1996 Aug;51(3-4):197-206
Comparison of the primary signs induced by experimental exposure to either a pneumotrophic or a 'limping' strain of feline calicivirus. TerWee J, et al. **Vet Microbiol** 1997 May;56(1-2):33-45
Susceptibility of wild rabbits (Oryctolagus cuniculus) in the United Kingdom to rabbit haemorrhagic disease (RHD). Chasey D, et al. **Vet Res** 1997 May-Jun;28(3):271-6
The complete nucleotide sequence of rabbit haemorrhagic disease virus (Czech strain V351): use of the polymerase chain reaction to detect replication in Australian vertebrates and analysis of viral population sequence variation. Gould AR, et al. **Virus Res** 1997 Jan;47(1):7-17
Rabbit hemorrhagic disease virus (RHDV): ultrastructure and biochemical studies of typical and core-like particles present in liver homogenates. Granzow H, et al. **Virus Res** 1996 Apr;41(2):163-72
Immunogenic properties of rabbit haemorrhagic disease virus structural protein VP60 expressed by a recombinant baculovirus: an efficient vaccine. Marín MS, et al. **Virus Res** 1995 Dec;39(2-3):119-28
Preliminary characterization of a non-haemagglutinating strain of rabbit haemorrhagic disease virus from the United Kingdom. Capucci L, et al. **Zentralbl Veterinarmed [B]** 1996 Jun;43(4):245-50
Susceptibility of hares and rabbits to the European brown hare syndrome virus (EBHSV) and rabbit haemorrhagic disease virus (RHDV) under experimental conditions. Lavazza A, et al. **Zentralbl Veterinarmed [B]** 1996 Sep; 43(7):401-10
Diagnosis of rabbit haemorrhagic disease (RHD) and European brown hare syndrome (EBHS) by indirect sandwich polyclonal ELISA. Nardelli S, et al. **Zentralbl Veterinarmed [B]** 1996 Sep;43(7):393-400
[Calicivirus infection of the hare and human calicivirus] Lamarque F, et al. **Bull Acad Natl Med** 1997 Mar 18; 181(3):409-20 (Eng. Abstr.) **(Fre)**

VIROLOGY

Dot blot hybridization with a cDNA probe derived from the human calicivirus Sapporo 1982 strain. Kogawa K, et al. **Arch Virol** 1996;141(10):1949-59
Historical background and classification of caliciviruses and astroviruses. Cubitt WD. **Arch Virol Suppl** 1996;12:225-35 (40 ref.)
Genetic and antigenic diversity of human caliciviruses (HuCVs) using RT-PCR and new EIAs. Jiang X, et al. **Arch Virol Suppl** 1996;12:251-62 (36 ref.)
Reverse transcription-polymerase chain reaction detection and sequence analysis of small round-structured viruses in Japan. Yamazaki K, et al. **Arch Virol Suppl** 1996;12:271-6
An electron microscopical investigation of small round viruses in non-bacterial gastroenteritis. Sigari G, et al. **Boll Soc Ital Biol Sper** 1997 Jan-Feb;73(1-2):31-8
People who live in glass houses... Pennisi E. **Curr Biol** 1996 Jan 1;6(1):9
Longitudinal study of molecular epidemiology of small round-structured viruses in a pediatric population. Levett PN, et al. **J Clin Microbiol** 1996 Jun;34(6):1497-501
Viral diarrhoea in hospitals [letter; comment] Caul EO, et al. **J Hosp Infect** 1995 Dec;31(4):320-1; discussion 321-2 . Comment on: J Hosp Infect 1995 May;30(1):1-6.
Mixed genogroup SRSV infections among a party of canoeists exposed to contaminated recreational water. Gray JJ, et al. **J Med Virol** 1997 Aug;52(4):425-9
Sequence analysis of SRSV in fecal specimens from an epidemic of infantile gastroenteritis, October to December 1995, Japan. Matsuno S, et al. **J Med Virol** 1997 Aug; 52(4):377-80
Sensitive detection of human Caliciviridae by RT-PCR. Stene-Johansen K, et al. **J Med Virol** 1996 Nov; 50(3):207-13
Incidence of human calicivirus and rotavirus infection in patients with gastroenteritis in South Africa. Wolfaardt M, et al. **J Med Virol** 1997 Apr;51(4):290-6
Detection and preliminary characterization of a new rabbit calicivirus related to rabbit hemorrhagic disease virus but nonpathogenic. Capucci L, et al. **J Virol** 1996 Dec; 70(12):8614-23
Presence of rabbit haemorrhagic disease virus antigen in rabbit tissues as revealed by a monoclonal antibody dependent capture ELISA. Collins BJ, et al. **J Virol Methods** 1996 Apr 26;58(1-2):145-54
Demonstration of rabbit haemorrhagic disease virus antigen by Staphylococcus protein A coagglutination test. Peshev R, et al. **J Virol Methods** 1996 Mar;57(1):15-8
An outbreak of Norwalk-like virus infection in Tokyo and Saitama in late 1995. Akihara S, et al. **Kansenshogaku Zasshi** 1996 Aug;70(8):840-1
Norwalk-like virus associated with gastroenteritis in babies [letter] Marshall JA, et al. **Med J Aust** 1997 Mar 3; 166(5):276
Steaming oysters does not prevent Norwalk-like gastroenteritis. Kirkland KB, et al. **Public Health Rep** 1996 Nov-Dec;111(6):527-30
The use of sequence analysis of a feline calicivirus (FCV) hypervariable region in the epidemiological investigation of FCV related disease and vaccine failures. Radford AD, et al. **Vaccine** 1997 Aug-Sep;15(12-13):1451-8
Genetic and antigenic heterogeneity among feline calicivirus isolates from distinct disease manifestations. Geissler K, et al. **Virus Res** 1997 May;48(2):193-206

CALICIVIRUS

Historical background and classification of caliciviruses and astroviruses. Cubitt WD. **Arch Virol Suppl** 1996;12:225-35 (40 ref.)
[Calicivirus infection of the hare and human calicivirus] Lamarque F, et al. **Bull Acad Natl Med** 1997 Mar 18; 181(3):409-20 (Eng. Abstr.) **(Fre)**

CHEMISTRY

Human calicivirus genogroup II capsid sequence diversity revealed by analyses of the prototype Snow Mountain agent. Hardy ME, et al. **Arch Virol** 1997;142(7):1469-79

CLASSIFICATION

Human calicivirus genogroup II capsid sequence diversity revealed by analyses of the prototype Snow Mountain agent. Hardy ME, et al. **Arch Virol** 1997;142(7):1469-79
Viral gastroenteritis: small round structured viruses, caliciviruses and astroviruses. Part I. The clinical and diagnostic perspective. Caul EO. **J Clin Pathol** 1996 Nov; 49(11):874-80 (58 ref.)
Phylogenetic analysis of the Caliciviruses. Berke T, et al. **J Med Virol** 1997 Aug;52(4):419-24
Outbreaks of gastroenteritis in elderly nursing homes and retirement facilities associated with human caliciviruses. Jiang X, et al. **J Med Virol** 1996 Dec;50(4):335-41

GENETICS

Phylogenetic analysis of rabbit haemorrhagic disease and European brown hare syndrome viruses by comparison of sequences from the capsid protein gene. Nowotny N, et al. **Arch Virol** 1997;142(4):657-73
Genetic and antigenic diversity of human caliciviruses (HuCVs) using RT-PCR and new EIAs. Jiang X, et al. **Arch Virol Suppl** 1996;12:251-62 (36 ref.)
Expression and self-assembly of recombinant capsid protein from the antigenically distinct Hawaii human calicivirus. Green KY, et al. **J Clin Microbiol** 1997 Jul;35(7):1909-14
Phylogenetic analysis of the Caliciviruses. Berke T, et al. **J Med Virol** 1997 Aug;52(4):419-24
Parkville virus: a novel genetic variant of human calicivirus in the Sapporo virus clade, associated with an outbreak of gastroenteritis in adults. Noel JS, et al. **J Med Virol** 1997 Jun;52(2):173-8
Detection and preliminary characterization of a new rabbit calicivirus related to rabbit hemorrhagic disease virus but nonpathogenic. Capucci L, et al. **J Virol** 1996 Dec; 70(12):8614-23
Colorimetric detection of lagomorphs' calicivirus genomic sequences by polymerase chain reaction incorporating digoxigenin dUTP. Pšikal I, et al. **Vet Microbiol** 1997 Jun 30;57(1):55-67

IMMUNOLOGY

Genetic and antigenic diversity of human caliciviruses (HuCVs) using RT-PCR and new EIAs. Jiang X, et al. **Arch Virol Suppl** 1996;12:251-62 (36 ref.)
Study of Norwalk virus and Mexico virus infections at Ga-Rankuwa Hospital, Ga-Rankuwa, South Africa. Smit TK, et al. **J Clin Microbiol** 1997 Sep;35(9):2381-5

ISOLATION & PURIFICATION

Dot blot hybridization with a cDNA probe derived from the human calicivirus Sapporo 1982 strain. Kogawa K, et al. **Arch Virol** 1996;141(10):1949-59
People who live in glass houses... Pennisi E. **Curr Biol** 1996 Jan 1;6(1):9
Isolation of a calicivirus antigenically related to feline caliciviruses from feces of a dog with diarrhea. Gabriel SS, et al. **J Vet Med Sci** 1996 Oct;58(10):1041-3
Identification of canine calicivirus capsid protein and its immunoreactivity in western blotting. San Gabriel MC, et al. **J Vet Med Sci** 1997 Feb;59(2):97-101
Detection of a non-cultivatable calicivirus from the white tern (Gygis alba rothschildi). Poet SE, et al. **J Wildl Dis** 1996 Jul;32(3):461-7

CALICIVIRUS, FELINE

CLASSIFICATION

Comparison of the primary signs induced by experimental exposure to either a pneumotrophic or a 'limping' strain of feline calicivirus. TerWee J, et al. **Vet Microbiol** 1997 May;56(1-2):33-45

GENETICS

Sequence analysis of the capsid gene of feline calicivirus strain F65. Glenn MA, et al. **Biochem Soc Trans** 1996 Aug; 24(3):414S
Identification of a protein linked to the genomic and subgenomic mRNAs of feline calicivirus and its role in translation. Herbert TP, et al. **J Gen Virol** 1997 May;78 (Pt 5):1033-40
The use of sequence analysis of a feline calicivirus (FCV) hypervariable region in the epidemiological investigation of FCV related disease and vaccine failures. Radford AD, et al. **Vaccine** 1997 Aug-Sep;15(12-13):1451-8
Genetic and antigenic heterogeneity among feline calicivirus isolates from distinct disease manifestations. Geissler K, et al. **Virus Res** 1997 May;48(2):193-206

IMMUNOLOGY

Feline calicivirus: a need for vaccine modification? Baulch-Brown C, et al. **Aust Vet J** 1997 Mar;75(3):209-13 (67 ref.)
Prevalence of antibodies to feline parvovirus, calicivirus, herpesvirus, coronavirus, and immunodeficiency virus and of feline leukemia virus antigen and the interrelationship of these viral infections in free-ranging lions in east Africa. Hofmann-Lehmann R, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):554-62
Mapping of antigenic sites involved in neutralization on the capsid protein of feline calicivirus. Tohya Y, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):303-5
The use of sequence analysis of a feline calicivirus (FCV) hypervariable region in the epidemiological investigation of FCV related disease and vaccine failures. Radford AD, et al. **Vaccine** 1997 Aug-Sep;15(12-13):1451-8
Recombinant feline herpesvirus type 1 expressing immunogenic proteins inducible virus neutralizing antibody against feline calicivirus in cats. Yokoyama N, et al. **Vaccine** 1996 Dec;14(17-18):1657-63
Serological analysis of feline calicivirus isolates from the United States and United Kingdom. Lauritzen A, et al. **Vet Microbiol** 1997 May;56(1-2):55-63
Genetic and antigenic heterogeneity among feline calicivirus isolates from distinct disease manifestations. Geissler K, et al. **Virus Res** 1997 May;48(2):193-206

ISOLATION & PURIFICATION

Feline calicivirus strain differentiation using monoclonal antibody analysis in an enzyme-linked immuno-flow-assay. McArdle F, et al. **Vet Microbiol** 1996 Aug;51(3-4):197-206

CALICIVIRUS INFECTIONS see **CALICIVIRIDAE INFECTIONS**

CALIFORNIA ENCEPHALITIS VIRUS see **CALIFORNIA GROUP VIRUSES**

CALIFORNIA GROUP VIRUSES

JC virus: a source of confusion [letter; comment] Farr RW. **AIDS** 1996 Feb;10(2):237. Comment on: AIDS 1995 Jul;9(7):819-20.

IMMUNOLOGY

Summing up, weak immunomodulating signals of Tahyna virus and immunomodulating drugs induce immunosuppression in mice. Semenova IB, et al. **Acta Virol** 1997 Apr;41(2):97-9

[A circulation study of California serogroup and Batai viruses (fam. Bunyaviridae, genus Bunyavirus) on the territory of Saratov Province] Shcherbakova SA, et al. **Med Parazitol (Mosk)** 1997 Jan-Mar;(1):51-2 (Eng. Abstr.) **(Rus)**

[The use of monoclonal antibodies for the study of California serogroup viruses] Larichev VF, et al. **Vopr Virusol** 1996 Nov-Dec;41(6):242-4 (28 ref.) **(Rus)**

PATHOGENICITY

Ovine fetal malformations induced by in utero inoculation with Main Drain, San Angelo, and LaCrosse viruses. Edwards JF, et al. **Am J Trop Med Hyg** 1997 Feb; 56(2):171-6

PHYSIOLOGY

Adsorptive endocytosis of California encephalitis virus into mosquito and mammalian cells: a role for G1. Hacker JK, et al. **Virology** 1997 Aug 18;235(1):40-7

CALIFORNIUM

Monte Carlo design study of a moderated 252Cf source for in vivo neutron activation analysis of aluminium. Lewis DG, et al. **Phys Med Biol** 1997 Apr;42(4):625-36

CHEMISTRY

Distinct difference in relative biological effectiveness of 252Cf neutrons for the induction of mitotic crossing over and intragenic reversion of the white-ivory allele in Drosophila melanogaster. Yoshikawa I, et al. **Mutat Res** 1996 Oct 25;357(1-2):35-42

PHARMACOLOGY

[Effects of dose rate on carcinogenesis after exposure of rats to low doses of neutron irradiation] Morin M, et al. **C R Acad Sci III** 1996 Jul;319(7):633-6 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Comment on "Monte Carlo simulation of Cf-252 dose distribution brachytherapy" [Med. Phys. 23, 707-711 (1996)] [letter] Wierzbicki JG, et al. **Med Phys** 1997 Aug; 24(8):1319; discussion 1321

CALISTHENICS see **GYMNASTICS**

CALLA see **NEPRILYSIN**

CALLA-POSITIVE LYMPHOBLASTIC LEUKEMIA see **LEUKEMIA, CALLA-POSITIVE**

CALLICEBINAE see **CEBIDAE**

CALLISTO see **JUPITER**

CALLITHRICIDAE see **CALLITRICHINAE**

CALLITHRIX

Metabolism of reproductive steroids during the ovarian cycle in two species of callitrichids, Saguinus oedipus and Callithrix jacchus, and estimation of the ovulatory period from fecal steroids. Ziegler TE, et al. **Biol Reprod** 1996 Jan;54(1):91-9

Creation of a model for multiple sclerosis in Callithrix jacchus marmosets [see comments] Genain CP, et al. **J Mol Med** 1997 Mar;75(3):187-97 (75 ref.). Comment in: J Mol Med 1997 Mar;75(3):164.

An illustrated guide to endotracheal intubation in small non-human primates. Morris TH, et al. **Lab Anim** 1997 Apr;31(2):157-62

Hepatic hemosiderosis in common marmosets, Callithrix jacchus: effect of diet on incidence and severity. Miller GF, et al. **Lab Anim Sci** 1997 Apr;47(2):138-42

Idiopathic myelofibrosis (agnogenic myeloid metaplasia) in a marmoset (Callithrix jacchus): hematologic and histopathologic changes. Khan KN, et al. **Vet Pathol** 1997 Jul;34(4):341-5

ANATOMY & HISTOLOGY

Age of epiphyseal closure in tamarins and marmosets. Kohn LA, et al. **Am J Primatol** 1997;41(2):129-39

Stereology of the myocardium in two species of Callithrix (Callitrichidae, primates). Burity CH, et al. **Anat Anz** 1996 Oct;178(5):437-41

Cardiac-like musculature of the intrapulmonary venous wall of the long-clawed shrew (Sorex unguiculatus), common tree shrew (Tupaia glis) and common marmoset (Callithrix jacchus). Endo H, et al. **Anat Rec** 1997 Jan;247(1):46-52

Topography of ganglion cells and photoreceptors in the retina of a New World monkey: the marmoset Callithrix jacchus. Wilder HD, et al. **Vis Neurosci** 1996 Mar-Apr; 13(2):335-52

BLOOD

Blockade of the neonatal increase in testosterone by a GnRH antagonist: the free androgen index, reproductive capacity and postmortem findings in the male marmoset monkey. Lunn SF, et al. **J Endocrinol** 1997 Jul;154(1):125-31

The haemoculture of Trypanosoma minasense Chagas, 1908. Ziccardi M, et al. **Mem Inst Oswaldo Cruz** 1996 Jul-Aug; 91(4):501-5

Distribution of hippocampal mineralocorticoid and glucocorticoid receptor mRNA in a glucocorticoid resistant nonhuman primate. Johnson EO, et al. **Steroids** 1996 Feb;61(2):69-73

CLASSIFICATION

Comparative chromosomal study of five taxa of genus Callithrix, group jacchus (Platyrrhini, Primates). Nagamachi CY, et al. **Am J Primatol** 1997;41(1):53-60

GENETICS

Homologies between human and marmoset (Callithrix jacchus) chromosomes revealed by comparative chromosome painting. Sherlock JK, et al. **Genomics** 1996 Apr 15;33(2):214-9

Marmoset phylogenetics, conservation perspectives, and evolution of the mtDNA control region. Tagliaro CH, et al. **Mol Biol Evol** 1997 Jun;14(6):674-84

GROWTH & DEVELOPMENT

Interactions between infant growth and survival: evidence for selection on age-specific body weight in captive common marmosets (Callithrix jacchus). Jaquish CE, et al. **Am J Primatol** 1997;42(4):269-80

IMMUNOLOGY

Characterization of the TCRB chain repertoire in the New World monkey Callithrix jacchus. Uccelli A, et al. **J Immunol** 1997 Feb 1;158(3):1201-7

METABOLISM

Induction of cytochromes P450 by dioxins in liver and lung of marmoset monkeys (Callithrix jacchus). Schulz TG, et al. **Adv Exp Med Biol** 1996;387:443-6

Marmoset liver cytochrome P450s: study for expression and molecular cloning of their cDNAs. Igarashi T, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):85-91

Oxytocin and oxytocin receptor expression in reproductive tissues of the male marmoset monkey. Einspanier A, et al. **Biol Reprod** 1997 Feb;56(2):416-22

N-methyl-D-aspartate subunit R1 involvement in the postnatal organization of the primary visual cortex of Callithrix jacchus. Fonta C, et al. **J Comp Neurol** 1997 Sep 22;386(2):260-76

Fertilization-promoting peptide in reproductive tissues and semen of the male marmoset (Callithrix jacchus). Kennedy AM, et al. **Mol Reprod Dev** 1997 May;47(1):113-9

MICROBIOLOGY

Hemorrhagic typhlocolitis associated with attaching and effacing Escherichia coli in common marmosets. Thomson JA, et al. **Lab Anim Sci** 1996 Jun;46(3):275-9

PARASITOLOGY

Gongylonematiasis in the common marmoset (Callithrix jacchus). Brack M. **Lab Anim Sci** 1996 Jun;46(3):266-70

PHYSIOLOGY

Birth of offspring following artificial insemination in the common marmoset, Callithrix jacchus. Morrell JM, et al. **Am J Primatol** 1997;41(1):37-43

Behavioral and social correlates of escape from suppression of ovulation in female common marmosets housed with the natal family. Saltzman W, et al. **Am J Primatol** 1997; 41(1):1-21

Social and reproductive conditions modulate urinary cortisol excretion in black tufted-ear marmosets (Callithrix kuhli). Smith TE, et al. **Am J Primatol** 1997;42(4):253-67

Number of ovulations in the marmoset monkey (Callithrix jacchus): relation to body weight, age and repeatability. Tardif SD, et al. **Am J Primatol** 1997;42(4):323-9

Specific neuroendocrine mechanisms not involving generalized stress mediate social regulation of female reproduction in cooperatively breeding marmoset monkeys. Abbott DH, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:219-38 (106 ref.)

A local oxytocin system is part of the luteinization process in the preovulatory follicle of the marmoset monkey (Callithrix jacchus). Einspanier A, et al. **Biol Reprod** 1997 Jul;57(1):16-26

Maturation, fertilization, and development of marmoset monkey oocytes in vitro. Gilchrist RB, et al. **Biol Reprod** 1997 Jan;56(1):238-46

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced neurotoxicity in non-human primates is antagonized by pretreatment with nimodipine at the nigral, but not at the striatal level. Kupsch A, et al. **Brain Res** 1996 Nov 25; 741(1-2):185-96

Comparison of dendritic fields of layer III pyramidal neurons in striate and extrastriate visual areas of the marmoset: a Lucifer yellow intracellular injection. Elston GN, et al. **Cereb Cortex** 1996 Nov-Dec;6(6):807-13

Evidence that blue-on cells are part of the third geniculocortical pathway in primates. Martin PR, et al. **Eur J Neurosci** 1997 Jul;9(7):1536-41

Learning impairment induced by lesion of the CA1 field of the primate hippocampus: attempts to ameliorate the impairment by transplantation of fetal CA1 tissue. Ridley RM, et al. **Exp Brain Res** 1997 Jun;115(1):83-94

Social and developmental influences on reproductive function in female Wied's black tufted-ear marmosets (Callithrix kuhli). Smith TE, et al. **Horm Behav** 1997 Apr; 31(2):159-68

Location and developmental regulation of androgen receptor in primate ovary. Hillier SG, et al. **Hum Reprod** 1997 Jan; 12(1):107-11

Morphological analysis of the blue cone pathway in the retina of a New World monkey, the marmoset Callithrix jacchus. Ghosh KK, et al. **J Comp Neurol** 1997 Mar 10; 379(2):211-25

Effects of click intensity and frequency on the brain-stem auditory evoked potentials in the common marmoset (Callithrix jacchus). Harada T, et al. **J Vet Med Sci** 1997 Jul;59(7):561-7

The effects of cage size and complexity on the behaviour of captive common marmosets, Callithrix jacchus jacchus. Kitchen AM, et al. **Lab Anim** 1996 Oct;30(4):317-26

Collection of semen from marmoset monkeys (Callithrix jacchus) for experimental use by vaginal washing. Kuederling I, et al. **Lab Anim** 1996 Jul;30(3):260-6

Monitoring and controlling reproduction in captive common marmosets on the basis of urinary oestrogen metabolites. Nievergelt C, et al. **Lab Anim** 1996 Apr;30(2):162-70

Assessment of functional impairment following permanent middle cerebral artery occlusion in a non-human primate species. Marshall JW, et al. **Neurodegeneration** 1996 Sep; 5(3):275-86

Psychosocial stress and urinary cortisol excretion in marmoset monkeys (Callithrix kuhli). Smith TE, et al. **Physiol Behav** 1997 Aug;62(2):225-32

PSYCHOLOGY

Familial influences on ovulatory function in common marmosets (Callithrix jacchus). Saltzman W, et al. **Am J Primatol** 1997;41(3):159-77

Specific neuroendocrine mechanisms not involving generalized stress mediate social regulation of female reproduction in cooperatively breeding marmoset monkeys. Abbott DH, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:219-38 (106 ref.)

Escape from social suppression of sexual behavior and of ovulation in female common marmosets. Saltzman W, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:567-70

Occurrence of an infanticide within a captive polygynous group of common marmosets, Callithrix jacchus. Kirkpatrick-Tanner M, et al. **Folia Primatol (Basel)** 1996; 67(1):52-8

VIROLOGY

Direct demonstration of persistent Epstein-Barr virus gene expression in peripheral blood of infected common marmosets and analysis of virus-infected tissues in vivo. Farrell PJ, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1417-24

CALLITHRIX JACCHUS see **CALLITHRIX**

CALLITRICHINAE

Foraging ecology and use of space in wild golden lion tamarins (Leontopithecus rosalia). Dietz JM, et al. **Am J Primatol** 1997;41(4):289-305

BLOOD

Development of an enzyme-immunoassay (EIA) for the measurement of follicle-stimulating-hormone (FSH) in Callitrichid primates using a monoclonal antibody against the human-FSH-beta-subunit. Rosenbusch J, et al. **Am J Primatol** 1997;41(3):179-93

GENETICS

Heteroduplex mobility assays (HMAs) and analogous sequence analysis of a cytochrome b region indicate phylogenetic relationships of selected callitrichids. Moreira MA, et al. **J Hered** 1996 Nov-Dec;87(6):456-60

METABOLISM

Rate of metabolism in the smallest simian primate, the pygmy marmoset (Cebuella pygmaea). Genoud M, et al. **Am J Primatol** 1997;41(3):229-45

Natural and induced ovarian synchrony in golden lion tamarins (Leontopithecus rosalia). Monfort SL, et al. **Biol Reprod** 1996 Oct;55(4):875-82

CALLOSITIES

COMPLICATIONS

The combined hammer toe–mallet toe deformity with associated double corns: a retrospective review. Oliver TP, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):263–8 (9 ref.)

DIAGNOSIS

Evaluation and management of the interdigital corn: a literature review. Day RD, et al.
Clin Podiatr Med Surg 1996 Apr;13(2):201–6 (9 ref.)

ETIOLOGY

Relation between heel position and the distribution of forefoot plantar pressures and skin callosities in rheumatoid arthritis. Woodburn J, et al. **Ann Rheum Dis** 1996 Nov; 55(11):806–10

PHYSIOPATHOLOGY

The association between callus formation, high pressures and neuropathy in diabetic foot ulceration. Murray HJ, et al. **Diabet Med** 1996 Nov;13(11):979–82

SURGERY

Evaluation and management of the interdigital corn: a literature review. Day RD, et al.
Clin Podiatr Med Surg 1996 Apr;13(2):201–6 (9 ref.)

THERAPY

Comparison of Viscoped and PORON for painful submetatarsal hyperkeratotic lesions. Caselli MA, et al.
J Am Podiatr Med Assoc 1997 Jan;87(1):6–10

CALLUS

Callus distraction in reconstructive foot surgery. Martin DE, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):489–506

Occipital neuralgia secondary to exuberant callus formation. Case report. Clavel M, et al. **J Neurosurg** 1996 Dec; 85(6):1170–1

Callus response to micromovement after elongation in the rabbit. Kassis B, et al. **J Pediatr Orthop** 1996 Jul–Aug; 16(4):480–3

BLOOD SUPPLY

Early histologic and ultrastructural changes in microvessels of periosteal callus [see comments] Brighton CT, et al.
J Orthop Trauma 1997 May;11(4):244–53. Comment in: J Orthop Trauma 1997 May;11(4):243.

CHEMISTRY

Biochemical and density assessment of the new bone in late remodeling after callus distraction. Lammens J, et al.
J Orthop Res 1997 May;15(3):391–7

CYTOLOGY

Role of exchanged ions in the integration of ionomeric (glass polyalkenoate) bone substitutes. Carter DH, et al.
Biomaterials 1997 Mar;18(6):459–66

Localization and quantification of proliferating cells during rat fracture repair: detection of proliferating cell nuclear antigen by immunohistochemistry. Iwaki A, et al.
J Bone Miner Res 1997 Jan;12(1):96–102

A new role for the chondrocyte in fracture repair: endochondral ossification includes direct bone formation by former chondrocytes. Scammell BE, et al.
J Bone Miner Res 1996 Jun;11(6):737–45

Expression of osteoblastic markers in cultured human bone and fracture callus cells. Mörike M, et al. **J Mol Med** 1995 Nov;73(11):571–5

GROWTH & DEVELOPMENT

Tibial segmental defect repair: chondrogenesis and biomechanical strength modulated by basic fibroblast growth factor. Andreshak JL, et al. **Anat Rec** 1997 Jun; 248(2):198–204

Temporal changes in dynamic inter fragmentary motion and callus formation in fractures. Gardner TN, et al.
J Biomech 1997 Apr;30(4):315–21

Effect of electrical stimulation on callus maturation during callus distraction in rabbits. Huang SC.
J Formos Med Assoc 1997 Jun;96(6):429–34

Application of B-scan ultrasonography for analysis of callus distraction in vascularized fibular grafts of the mandible: a report of three patients. Friedrich RE, et al.
J Oral Maxillofac Surg 1997 Jun;55(6):635–40

PATHOLOGY

Prevalence of trabecular microcallus formation in the vertebral body and the femoral neck. Cheng XG, et al.
Calcif Tissue Int 1997 May;60(5):479–84

Connective tissue parameters in experimental nonunion. Hietaniemi K, et al. **J Orthop Trauma** 1996;10(2):114–8

Microstructures of external periosteal callus of repaired femoral fracture in children. Cui FZ, et al.
J Struct Biol 1996 Nov–Dec;117(3):204–8

[Hypertrophic callus formation and craniocerebral trauma: early diagnosis and behavior of basic fibroblast growth factor] Wildburger R, et al. **Unfallchirurg** 1996 Jan; 99(1):17–23 (Eng. Abstr.) **(Ger)**

[Mathematical model of the bone callus tissue obtained during distraction osteosynthesis] Logvenkov SA, et al.
Biofizika 1996 Nov–Dec;41(6):1332–5 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Streaming potentials in gap osteotomy callus and adjacent cortex. A pilot study. Cochran GV, et al. **Clin Orthop** 1997 Apr;(337):291–301

Quantitative assessment of callus distraction using dual energy X-ray absorptiometry. Reiter A, et al.
Int Orthop 1997;21(1):35–40

A new role for the chondrocyte in fracture repair: endochondral ossification includes direct bone formation by former chondrocytes. Scammell BE, et al.
J Bone Miner Res 1996 Jun;11(6):737–45

Cellular mechanisms of bone repair. Probst A, et al.
J Invest Surg 1997 May–Jun;10(3):77–86 (63 ref.)

PHYSIOPATHOLOGY

[A providential callus? (letter)] Moyikoua A, et al.
Med Trop (Mars) 1996;56(2):205–6 **(Fre)**

SURGERY

Femoral lengthening: callotasis with Ilizarov external fixator alone and with intramedullary locking nail. Lee WH, et al. **J Formos Med Assoc** 1997 Feb;96(2):98–102

ULTRASONOGRAPHY

Application of B-scan ultrasonography for analysis of callus distraction in vascularized fibular grafts of the mandible: a report of three patients. Friedrich RE, et al.
J Oral Maxillofac Surg 1997 Jun;55(6):635–40

CALMETTE–GUERIN BACILLUS see **MYCOBACTERIUM BOVIS**

CALMETTE GUERIN BACILLUS VACCINE see **BCG VACCINE**

CALMODULIN

Conformational changes due to calcium–induced calmodulin dissociation in brush border myosin I–decorated F–actin revealed by cryoelectron microscopy and image analysis. Whittaker M, et al. **J Mol Biol** 1997 Jun 20;269(4):548–57

ANALYSIS

Immunofluorescence localization of a 23–kDa Tetrahymena calcium–binding protein, TCBP–23, in the cell cortex. Hanyu K, et al. **J Biochem (Tokyo)** 1996 May;119(5):914–9

The concentration of calmodulin present in parotid cells [letter; comment] Henkin RI. **J Dent Res** 1997 Aug; 76(8):1430. Comment on: J Dent Res 1997 Mar;76(3):744–53.

Calmodulin content in pancreatic islets and the response of islet membrane Ca2+ ATPase to calmodulin in phosphate depletion. Ozbasli CF, et al. **Miner Electrolyte Metab** 1996; 22(4):253–7

ANTAGONISTS & INHIBITORS

Molecular and cellular pharmacology of a calcium/calmodulin–dependent protein kinase II (CaM kinase II) inhibitor, KN–62, and proposal of CaM kinase phosphorylation cascades. Hidaka H, et al.
Adv Pharmacol 1996;36:193–219 (84 ref.)

Glucose–independent inhibition of yeast plasma–membrane H+–ATPase by calmodulin antagonists. Romero I, et al.
Biochem J 1997 Mar 15;322 (Pt 3):823–8

Serotonin decreases cytoskeletal and cytosolic glycolytic enzymes and the levels of ATP and glucose 1,6–bisphosphate in skin, which is prevented by the calmodulin antagonists thioridazine and clotrimazole. Ashkenazy–Shahar M, et al. **Biochem Mol Med** 1997 Apr; 60(2):187–93

Effects of calmodulin antagonists on calcium pump and cytosolic calcium level in human neutrophils. Capuozzo E, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):123–7

Selective calmodulin antagonists fail to inhibit phorbol ester–induced superoxide anion release from human neutrophils: effects of antifungal azole derivatives. Hegemann L, et al. **Br J Dermatol** 1996 Aug;135(2):199–203

Stellettamide–A, a novel inhibitor of calmodulin, isolated from a marine sponge. Abe Y, et al. **Br J Pharmacol** 1997 Aug;121(7):1309–14

The interaction of a new anti–tumour drug, KAR–2 with calmodulin. Orosz F, et al. **Br J Pharmacol** 1997 Jul; 121(5):955–62

Calmodulin inhibitors induce spinal analgesia in rats. Menendez L, et al. **Brain Res** 1996 Aug 26;731(1–2):114–21

Peroxynitrite reduction of calmodulin stimulation of neuronal nitric oxide synthase. Hühmer AF, et al.
Chem Res Toxicol 1996 Mar;9(2):484–91

Calmodulin antagonists decrease glucose 1,6–bisphosphate, fructose 1,6–bisphosphate, ATP and viability of melanoma cells. Glass–Marmor L, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):265–71

Inhibition by antipsychotic drugs of L–type Ca2+ channel current in PC12 cells. Ito K, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):143–50

Effects of calmodulin antagonists and anesthetics on the skin lesions induced by 2–chloroethylethyl sulfide. Kim YB, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):107–14

A new and potent calmodulin antagonist, HF–2035, which inhibits vascular relaxation induced by nitric oxide synthase. Win NH, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1–3):119–26

Effect of calmodulin antagonists on endocytosis and intracellular transport of ricin in polarized MDCK cells. Llorente A, et al. **Exp Cell Res** 1996 Sep 15;227(2):298–308

Mutants with altered sensitivity to a calmodulin antagonist affect the circadian clock in Neurospora crassa. Suzuki S, et al. **Genetics** 1996 Jul;143(3):1175–80

Light–induced phase shifting of the circadian conidiation rhythm is inhibited by calmodulin antagonists in Neurospora crassa. Sadakane Y, et al. **J Biol Rhythms** 1996 Sep;11(3):234–40

HMN–709, a chlorobenzenesulfonamide derivative, is a new membrane–permeable calmodulin antagonist. Yokokura H, et al. **Jpn J Pharmacol** 1996 Oct;72(2):127–35

Identification of cyclized calmodulin antagonists from a phage display random peptide library. Pierce HH, et al.
Mol Divers 1996 Aug;1(4):259–65

In vivo evidence for the generation of a glucocorticoid receptor–heat shock protein–90 complex incapable of binding hormone by the calmodulin antagonist phenoxybenzamine. Ning YM, et al. **Mol Endocrinol** 1996 Jan;10(1):14–23

Potentiation of stimulus–induced phosphoinositide breakdown by calmodulin antagonists in C6 glioma cells. Lin WW. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec;352(6):679–84

Preliminary study on the effect of the selected calmodulin antagonists on the skin. Niczyporuk W, et al.
Rocz Akad Med Bialymst 1996;41(2):515–24

Toxicity of cadmium in human trophoblast cells (JAr choriocarcinoma): role of calmodulin and the calmodulin inhibitor, zaldaride maleate. Powlin SS, et al.
Toxicol Appl Pharmacol 1997 Jun;144(2):225–34

[Correlation of inhibition of thrombocyte light chain myosin phosphorylation and thrombocyte aggregation by the new calcium and calmodulin antagonist] Aleksanian AR, et al.
Biull Eksp Biol Med 1996 Jul;122(7):40–2 **(Rus)**

BIOSYNTHESIS

Reduced level of calmodulin in PC12 cells induced by stable expression of calmodulin antisense RNA inhibits cell proliferation and induces neurite outgrowth. Davidkova G, et al. **Neuroscience** 1996 Dec;75(4):1003–19

A calcium responsive element that regulates expression of two calcium binding proteins in Purkinje cells. Arnold DB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8842–7

CHEMISTRY

Bifunctional fusion proteins of calmodulin and protein A as affinity ligands in protein purification and in the study of protein–protein interactions. Hentz NG, et al.
Anal Chem 1996 Nov 15;68(22):3939–44

Phosphorylation of calmodulin by myosin light chain kinase is altered by exchange or duplication of EF–hand pairs. Davis HW. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):702–5

Mapping of contact sites in the caldesmon–calmodulin complex. Medvedeva MV, et al. **Biochem J** 1997 May 15; 324 (Pt 1):255–62

Solution structure of the paramagnetic complex of the N–terminal domain of calmodulin with two Ce3+ ions by 1H NMR. Bentrop D, et al. **Biochemistry** 1997 Sep 30; 36(39):11605–18

NMR studies of the E140Q mutant of the carboxy–terminal domain of calmodulin reveal global conformational exchange in the Ca2+–saturated state. Evenäs J, et al.
Biochemistry 1997 Mar 25;36(12):3448–57

Isotope effect studies on the calcineurin phosphoryl–transfer reaction: transition state structure and effect of calmodulin and Mn2+. Hengge AC, et al. **Biochemistry** 1997 Aug 19; 36(33):10185–91

Structures of calmodulin and a functional myosin light chain kinase in the activated complex: a neutron scattering study. Krueger JK, et al. **Biochemistry** 1997 May 20; 36(20):6017–23

Identification of Mg2+–binding sites and the role of Mg2+ on target recognition by calmodulin. Ohki S, et al.
Biochemistry 1997 Apr 8;36(14):4309–16

Conformation and thermal denaturation of apocalmodulin: role of electrostatic mutations. Protasevich I, et al.
Biochemistry 1997 Feb 25;36(8):2017–24

Isolated calcium–binding loops of EF–hand proteins can dimerize to form a native–like structure. Wójcik J, et al.
Biochemistry 1997 Jan 28;36(4):680–7

Structure/calcium affinity relationships of site III of calmodulin: testing the acid pair hypothesis using calmodulin mutants. Wu X, et al. **Biochemistry** 1997 Jul 15;36(28):8649–56

Dynamic structure of the calmodulin–binding domain of the plasma membrane Ca–ATPase in native erythrocyte ghost membranes. Yao Y, et al. **Biochemistry** 1996 Sep 17; 35(37):12015–28

Synthesis and use of a biotinylated 3-azidophenothiazine to photolabel both amino- and carboxyl-terminal sites in calmodulin. DeLaLuz PJ, et al. **Bioconjug Chem** 1995 Sep-Oct;6(5):558-66

Synthesis, binding affinity, and cross-linking of monodentate photoactive phenothiazines to calmodulin. Golinski M, et al. **Bioconjug Chem** 1995 Sep-Oct;6(5):549-57

Synthesis and binding affinity of bidentate phenothiazines with two different photoactive groups. Golinski M, et al. **Bioconjug Chem** 1995 Sep-Oct;6(5):567-72

Calcium binding decreases the stokes radius of calmodulin and mutants R74A, R90A, and R90G. Sorensen BR, et al. **Biophys J** 1996 Dec;71(6):3407-20

Synthesis and analysis of the enantiomers of calmidazolium, and a 1H NMR demonstration of a chiral interaction with calmodulin. Edwards AJ, et al. **Chirality** 1996;8(8):545-50

Calcium binding and conformational properties of calmodulin complexed with peptides derived from myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP). Porumb T, et al. **Eur Biophys J** 1997;25(4):239-47

Altered methylation substrate kinetics and calcium binding of a calmodulin with a Val136-->Thr substitution. Han CH, et al. **Eur J Biochem** 1997 Mar 15;244(3):904-12

Characterization of mutant Bordetella pertussis adenylate cyclase toxins with reduced affinity for calmodulin. Implications for the mechanism of toxin entry into target cells. Heveker N, et al. **Eur J Biochem** 1997 Feb 1; 243(3):643-9

Modified helix-loop-helix motifs of calmodulin--The influence of the exchange of helical regions on calcium-binding affinity. Sharma Y, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):42-8

Secondary structure and Ca(2+)-binding property of the N-terminal half domain of calmodulin from yeast Saccharomyces cerevisiae as studied by NMR. Ohki S, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1045-55

Methionine to glutamine substitutions in the C-terminal domain of calmodulin impair the activation of three protein kinases. Chin D, et al. **J Biol Chem** 1996 Nov 29; 271(48):30465-71

Localization of unique functional determinants in the calmodulin lobes to individual EF hands. Persechini A, et al. **J Biol Chem** 1996 Dec 13;271(50):32217-25

Fluorescent indicators for Ca2+ based on green fluorescent proteins and calmodulin [see comments] Miyawaki A, et al. **Nature** 1997 Aug 28;388(6645):882-7. Comment in: Nature 1997 Aug 28;388(6645):834-5.

Rational choice of molecular dynamics simulation parameters through the use of the three-dimensional autocorrelation method: application to calmodulin flexibility study. Yasri A, et al. **Protein Eng** 1996 Nov;9(11):959-76

Intermolecular tuning of calmodulin by target peptides and proteins: differential effects on Ca2+ binding and implications for kinase activation. Peersen OB, et al. **Protein Sci** 1997 Apr;6(4):794-807

Bending of the calmodulin central helix: a theoretical study. van der Spoel D, et al. **Protein Sci** 1996 Oct;5(10):2044-53

The linker of calmodulin lacking Glu84 is elongated in solution, although it is bent in the crystal. Kataoka M, et al. **Proteins** 1996 Jul;25(3):335-41

Comparative modeling of the three-dimensional structure of the calmodulin-related TCH2 protein from Arabidopsis. Khan AR, et al. **Proteins** 1997 Jan;27(1):144-53

Crystallization and preliminary diffraction analysis of Ca(2+)-calmodulin-drug and apocalmodulin-drug complexes. Vertessy BG, et al. **Proteins** 1997 May; 28(1):131-4

A model of Ca(2+)-free calmodulin binding to unconventional myosins reveals how calmodulin acts as a regulatory switch. Houdusse A, et al. **Structure** 1996 Dec 15;4(12):1475-90

The structure of a calmodulin mutant with a deletion in the central helix: implications for molecular recognition and protein binding. Tabernero L, et al. **Structure** 1997 May 15;5(5):613-22

GENETICS

Conservative D133E mutation of calmodulin site IV drastically alters calcium binding and phosphodiesterase regulation. Wu X, et al. **Biochemistry** 1997 Mar 25; 36(12):3608-16

Characterization of Eu(III) binding to a series of calmodulin binding site mutants using laser-induced Eu(III) luminescence spectroscopy. Bruno J, et al. **Biophys Chem** 1996 Dec 10;63(1):1-16

Alteration of CaM I mRNA expression in the developing rat superior colliculus following chronic treatment with an NMDA receptor antagonist. Berry FB, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):171-80

Multiple epiphyseal dysplasia and pseudoachondroplasia due to novel mutations in the calmodulin-like repeats of cartilage oligomeric matrix protein. Susic S, et al. **Clin Genet** 1997 Apr;51(4):219-24

Transgenic tobacco expressing a foreign calmodulin gene shows an enhanced production of active oxygen species. Harding SA, et al. **EMBO J** 1997 Mar 17;16(6):1137-44

Structure and expression of the chicken calmodulin I gene. Ye Q, et al. **Gene** 1997 Jul 18;194(1):63-8

Linked genes for calmodulin and E2 ubiquitin-conjugating enzyme in Trichomonas vaginalis. Keeling PJ, et al. **J Eukaryot Microbiol** 1996 Nov-Dec;43(6):468-74

Isolation and characterization of a calmodulin-encoding cDNA from the pathogenic fungus Histoplasma capsulatum. el-Rady J, et al. **J Med Vet Mycol** 1996 Jun-Jul;34(3):163-9

CaM I mRNA is localized to apical dendrites during postnatal development of neurons in the rat brain. Berry FB, et al. **J Neurosci Res** 1996 Mar 1;43(5):565-75

Sequence of a fourth human CALM II-related pseudogene (CALM II psi4). Karkera JD, et al. **Mamm Genome** 1996 Nov;7(11):863

The calmodulin-ubiquitin (CUB) genes of Trypanosoma cruzi are essential for parasite viability. Ajioka J, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):217-25

Characterization of the calmodulin gene family in wheat: structure, chromosomal location, and evolutionary aspects. Yang T, et al. **Mol Gen Genet** 1996 Oct 28;252(6):684-94

Mutation analysis of chromosome 19 calmodulin (CALM3) gene in Alzheimer's disease patients. Ibarreta D, et al. **Neurosci Lett** 1997 Jul 4;229(3):157-60

Differential response of calmodulin genes in the mouse brain after systemic kainate administration. Solà C, et al. **Neuroscience** 1997 May;78(1):155-64

Comparative study of the pattern of expression of calmodulin messenger RNAs in the mouse brain. Solà C, et al. **Neuroscience** 1996 Nov;75(1):245-56

Sequence, expression and localization of calmodulin-domain protein kinases in Eimeria tenella and Eimeria maxima. Dunn PP, et al. **Parasitology** 1996 Nov;113 (Pt 5):439-48

A calcium responsive element that regulates expression of two calcium binding proteins in Purkinje cells. Arnold DB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8842-7

Interlobe communication in multiple calcium-binding site mutants of Drosophila calmodulin. Mukherjea P, et al. **Protein Sci** 1996 Mar;5(3):468-77

IMMUNOLOGY

Production of antibody against calmodulin which is a protein with poor antigenicity. Nagai M, et al. **Biol Pharm Bull** 1996 Nov;19(11):1503-5

[Evaluation and its clinical significance of anti-platelet granule membrane protein-140 autoantibodies and anticalmodulin antibody in patients with severe pregnancy-induced hypertension] Zhang S, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):665-7 (Eng. Abstr.) **(Chi)**

METABOLISM

Calmodulin-binding function of LLP segments from the HIV type 1 transmembrane protein is conserved among natural sequence variants. Tencza SB, et al. **AIDS Res Hum Retroviruses** 1997 Feb 10;13(3):263-9

Interaction between D-glyceraldehyde-3-phosphate dehydrogenase and calmodulin. Christova TY, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):272-7

Phosphorylation of calmodulin by myosin light chain kinase is altered by exchange or duplication of EF-hand pairs. Davis HW. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):702-5

Protein half-lives of calmodulin and the plasma membrane Ca-ATPase in rat brain. Ferrington DA, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):163-5

Electrical stimulation induces the level of TGF-beta1 mRNA in osteoblastic cells by a mechanism involving calcium/calmodulin pathway. Zhuang H, et al. **Biochem Biophys Res Commun** 1997 Aug 1o;237(2):225-9

Calmodulin sensitivity of the sarcoplasmic reticulum ryanodine receptor from normal and malignant-hyperthermia-susceptible muscle. O'Driscoll S, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):421-6

Utilization of troponin C as a model calcium-binding protein for mapping of the calmodulin-binding sites of caldesmon. Polyakov AA, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):873-8

Antagonism of estrogen receptor and calmodulin association by antiestrogens is not dependent on an interaction with calmodulin. Rowlands MG, et al. **Biochem Pharmacol** 1997 Jan 24;53(2):241-4

The role of beta-sheet interactions in domain stability, folding, and target recognition reactions of calmodulin. Browne JP, et al. **Biochemistry** 1997 Aug 5;36(31):9550-61

Tryptophan residues in caldesmon are major determinants for calmodulin binding. Graether SP, et al. **Biochemistry** 1997 Jan 14;36(2):364-9

Activation of a Ca(2+)-dependent protein kinase involves intramolecular binding of a calmodulin-like regulatory domain. Huang JF, et al. **Biochemistry** 1996 Oct 8; 35(40):13222-30

Ca2+ regulates calmodulin binding to IQ motifs in IRS-1. Munshi HG, et al. **Biochemistry** 1996 Dec 10; 35(49):15883-9

Ca2+-calmodulin binding to mouse alpha1 syntrophin: syntrophin is also a Ca2+-binding protein. Newbell BJ, et al. **Biochemistry** 1997 Feb 11;36(6):1295-305

Ca2+-dependent interaction with calmodulin is conserved in the synapsin family: identification of a high-affinity site. Nicol S, et al. **Biochemistry** 1997 Sep 23;36(38):11487-95

Defining protein-protein interactions using site-directed spin-labeling: the binding of protein kinase C substrates to calmodulin. Qin Z, et al. **Biochemistry** 1996 Oct 15; 35(41):13272-6

Calcium binding sites of calmodulin and electron transfer by neuronal nitric oxide synthase. Stevens-Truss R, et al. **Biochemistry** 1997 Oct 7;36(40):12337-45

Structure/calcium affinity relationships of site III of calmodulin: testing the acid pair hypothesis using calmodulin mutants. Wu X, et al. **Biochemistry** 1997 Jul 15;36(28):8649-56

Dynamic structure of the calmodulin-binding domain of the plasma membrane Ca-ATPase in native erythrocyte ghost membranes. Yao Y, et al. **Biochemistry** 1996 Sep 17; 35(37):12015-28

NMR studies of caldesmon-calmodulin interactions. Zhou N, et al. **Biochemistry** 1997 Mar 11;36(10):2817-25

Inhibitors of actin polymerization and calmodulin binding enhance protein kinase C-induced translocation of MARCKS in C6 glioma cells. Douglas DN, et al. **Biochim Biophys Acta** 1997 Apr 24;1356(2):121-30

Synthesis and decay of calmodulin-ubiquitin conjugates in cell-free extracts of various rabbit tissues. Laub M, et al. **Biochim Biophys Acta** 1997 Jun 27;1357(2):173-91

Heme-CO binding to tryptophan-containing calmodulin mutants. Leclerc L'Hostis E, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):209-16

Characterization of the interaction between beta2-glycoprotein I and calmodulin, and identification of a binding sequence in beta2-glycoprotein I. Røjkjaer R, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):217-25

Phosphorylation of calmodulin by permeabilized fibroblasts overexpressing the human epidermal growth factor receptor. De Frutos T, et al. **Biol Chem** 1997 Jan; 378(1):31-7

Characterization of Eu(III) binding to a series of calmodulin binding site mutants using laser-induced Eu(III) luminescence spectroscopy. Bruno J, et al. **Biophys Chem** 1996 Dec 10;63(1):1-16

The effects of weak extremely low frequency magnetic fields on calcium/calmodulin interactions. Hendee SP, et al. **Biophys J** 1996 Jun;70(6):2915-23

Calcium binding decreases the stokes radius of calmodulin and mutants R74A, R90A, and R90G. Sorensen BR, et al. **Biophys J** 1996 Dec;71(6):3407-20

Detection of calmodulin-binding proteins using a 32P-labeled GST-calmodulin fusion protein and a novel renaturation protocol. Fischer R, et al. **Biotechniques** 1996 Aug;21(2):292-6

Haloperidol and MK-801 block increases in striatal calmodulin resulting from repeated amphetamine treatment. Gnegy ME, et al. **Brain Res** 1996 Sep 23; 734(1-2):35-42

Biochemical and functional characterization of the synaptic vesicle-associated form of CA2+/calmodulin-dependent protein kinase II. Benfenati F, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):297-309

Use of a two-hybrid system to investigate molecular interactions of GAP-43. Chao S, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):195-202

Nitric oxide increases calcium/calmodulin-dependent phosphorylation of proteins in the postsynaptic density of adult rat cerebral cortex. Wu K, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):22-6

Calmodulin glycation in diabetic rat lenses. Evcimen ND, et al. **Can J Physiol Pharmacol** 1996 Dec;74(12):1287-93

Cisplatin-induced inhibition of the calcium-calmodulin complex, neuronal nitric oxide synthase activation and their role in stomach distention. Jarve RK, et al. **Cancer Chemother Pharmacol** 1997;39(4):341-8

The autoantigen La/SSB is a calmodulin-binding protein. Castro A, et al. **Cell Calcium** 1996 Dec;20(6):493-500

Activation of chicken gizzard myosin light chain kinase by Ca2+/calmodulin is inhibited by autophosphorylation. Abe M, et al. **Cell Struct Funct** 1996 Jun;21(3):183-8

Regulation of protein tyrosine phosphorylation in human sperm by a calcium/calmodulin-dependent mechanism: identification of A kinase anchor proteins as major substrates for tyrosine phosphorylation. Carrera A, et al. **Dev Biol** 1996 Nov 25;180(1):284-96

DAP-kinase is a Ca2+/calmodulin-dependent, cytoskeletal-associated protein kinase, with cell death-inducing functions that depend on its catalytic activity. Cohen O, et al. **EMBO J** 1997 Mar 3; 16(5):998-1008

The receptor-associated protein (RAP) binds calmodulin and is phosphorylated by calmodulin-dependent kinase II. Petersen CM, et al. **EMBO J** 1996 Aug 15;15(16):4165-73

Ca2+/calmodulin and cyclic 3,5' adenosine monophosphate control movement of secretory granules through protein phosphorylation/dephosphorylation in the pancreatic beta-cell. Hisatomi M, et al. **Endocrinology** 1996 Nov; 137(11):4644-9

Calcium binding and conformational properties of calmodulin complexed with peptides derived from myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP). Porumb T, et al. **Eur Biophys J** 1997;25(4):239-47

Altered methylation substrate kinetics and calcium binding of a calmodulin with a Val136-->Thr substitution. Han CH, et al. **Eur J Biochem** 1997 Mar 15;244(3):904-12

Calmodulin content and in vitro contractility of duodenum from streptozotocin-induced diabetic rats: effects of insulin therapy and calmodulin antagonism. Oztürk Y, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):59-65

Sequence motifs for calmodulin recognition. Rhoads AR, et al. **FASEB J** 1997 Apr;11(5):331-40 (95 ref.)

A calmodulin-stimulated Ca2+-ATPase from plant vacuolar

membranes with a putative regulatory domain at its N-terminus. Malmström S, et al. **FEBS Lett** 1997 Jan 6; 400(3):324–8

Identification of a specific amino acid cluster in the calmodulin-binding domain of the neuronal nitric oxide synthase. Watanabe Y, et al. **FEBS Lett** 1997 Feb 10; 403(1):75–8

The Ca2+/calmodulin binding domain of the Ca2+-ATPase linked to the Na+,K+-ATPase alters transport stoichiometry. Zhao J, et al. **FEBS Lett** 1997 May 26;408(3):271–5

Purification of a 47-kDa calmodulin-binding polypeptide as an actin-binding protein from Neurospora crassa [published erratum appears in FEMS Microbiol Lett 1997 May 1;150(1);173] Capelli N, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):215–20

Calcium-binding proteins in organ of Corti and basilar papilla: CBP-15, an unidentified calcium-binding protein of the inner ear. Senarita M, et al. **Hear Res** 1995 Oct; 90(1–2):169–75

Interaction of ganglioside with specific peptide sequences as a mechanism for the modulation of calmodulin-dependent enzymes. Higashi H, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):66–73

Kinetic control of the dissociation pathway of calmodulin-peptide complexes. Brown SE, et al. **J Biol Chem** 1997 Feb 7;272(6):3389–97

Functional consequences of truncating amino acid side chains located at a calmodulin-peptide interface. Chin D, et al. **J Biol Chem** 1997 Feb 28;272(9):5510–3

Amyloid alpha peptide formation in cell-free preparations. Regulation by protein kinase C, calmodulin, and calcineurin. Desdouits F, et al. **J Biol Chem** 1996 Oct 4; 271(40):24670–4

Protein kinase C activates the plasma membrane Ca2+ pump isoform 4b by phosphorylation of an inhibitory region downstream of the calmodulin-binding domain. Enyedi A, et al. **J Biol Chem** 1996 Dec 13;271(50):32461–7

Regulation of the AKAP79-protein kinase C interaction by Ca2+/Calmodulin. Faux MC, et al. **J Biol Chem** 1997 Jul 4;272(27):17038–44

Calmodulin binds to and inhibits GTP binding of the ras-like GTPase Kir/Gem. Fischer R, et al. **J Biol Chem** 1996 Oct 11;271(41):25067–70

Analysis of the role of calmodulin binding and sequestration in neuromodulin (GAP-43) function. Gamby C, et al. **J Biol Chem** 1996 Oct 25;271(43):26698–705

Binding of centrins and yeast calmodulin to synthetic peptides corresponding to binding sites in the spindle pole body components Kar1p and Spc110p. Geier BM, et al. **J Biol Chem** 1996 Nov 8;271(45):28366–74

Circular dichroism and 1H nuclear magnetic resonance studies on the solution and membrane structures of GAP-43 calmodulin-binding domain. Hayashi N, et al. **J Biol Chem** 1997 Mar 21;272(12):7639–45

Calmodulin modulates the interaction between IQGAP1 and Cdc42. Identification of IQGAP1 by nanoelectrospray tandem mass spectrometry. Joyal JL, et al. **J Biol Chem** 1997 Jun 13;272(24):15419–25

Differential activation of NAD kinase by plant calmodulin isoforms. The critical role of domain I. Lee SH, et al. **J Biol Chem** 1997 Apr 4;272(14):9252–9

The Ca2+-dependent binding of calmodulin to an N-terminal motif of the heterotrimeric G protein beta subunit. Liu M, et al. **J Biol Chem** 1997 Jul 25; 272(30):18801–7

Circular dichroism and 1H NMR studies on the structures of peptides derived from the calmodulin-binding domains of inducible and endothelial nitric-oxide synthase in solution and in complex with calmodulin. Nascent alpha-helical structures are stabilized by calmodulin both in the presence and absence of Ca2+. Matsubara M, et al. **J Biol Chem** 1997 Sep 12;272(37):23050–6

Adducin regulation. Definition of the calmodulin-binding domain and sites of phosphorylation by protein kinases A and C. Matsuoka Y, et al. **J Biol Chem** 1996 Oct 11; 271(41):25157–66

Reciprocal regulation of endothelial nitric-oxide synthase by Ca2+-calmodulin and caveolin. Michel JB, et al. **J Biol Chem** 1997 Jun 20;272(25):15583–6

Phosphorylation and calmodulin binding of the metabotropic glutamate receptor subtype 5 (mGluR5) are antagonistic in vitro. Minakami R, et al. **J Biol Chem** 1997 Aug 8; 272(32):20291–8

Rad and Rad-related GTPases interact with calmodulin and calmodulin-dependent protein kinase II. Moyers JS, et al. **J Biol Chem** 1997 May 2;272(18):11832–9

Basic helix-loop-helix protein sequences determining differential inhibition by calmodulin and S-100 proteins. Onions J, et al. **J Biol Chem** 1997 Sep 19;272(38):23930–7

A peptide model for calmodulin trapping by calcium/calmodulin-dependent protein kinase II. Putkey JA, et al. **J Biol Chem** 1996 Nov 22;271(47):29619–23

Inducible nitric oxide synthase requires both the canonical calmodulin-binding domain and additional sequences in order to bind calmodulin and produce nitric oxide in the absence of free Ca2+ Ruan J, et al. **J Biol Chem** 1996 Sep 13;271(37):22679–86

Nitric oxide modification of rat brain neurogranin affects its phosphorylation by protein kinase C and affinity for calmodulin. Sheu FS, et al. **J Biol Chem** 1996 Sep 13; 271(37):22407–13

Identification and characterization of a calmodulin-binding domain in Ral-A, a Ras-related GTP-binding protein purified from human erythrocyte membrane. Wang KL, et al. **J Biol Chem** 1997 Jun 20;272(25):16002–9

Functional and structural relationship between the calmodulin-binding, actin-binding, and actomyosin-ATPase inhibitory domains on the C terminus of smooth muscle caldesmon. Wang Z, et al. **J Biol Chem** 1997 Jul 4;272(27):16896–903

Calcium-calmodulin plays a major role in bradykinin-induced arachidonic acid release by bovine aortic endothelial cells. Briand SI, et al. **J Cell Biochem** 1996 Dec 1;63(3):292–301

Differential effects of tamoxifen-like compounds on osteoclastic bone degradation, H(+)-ATPase activity, calmodulin-dependent cyclic nucleotide phosphodiesterase activity, and calmodulin binding. Williams JP, et al. **J Cell Biochem** 1997 Sep 1;66(3):358–69

Effects of cell culture time and bone matrix exposure on calmodulin content and ATP-dependent cell membrane acid transport in avian osteoclasts and macrophages. Williams JP, et al. **J Cell Physiol** 1996 Dec;169(3):411–9

The spacer protein Spc110p targets calmodulin to the central plaque of the yeast spindle pole body. Spang A, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2229–37

Mutations which block the binding of calmodulin to Spc110p cause multiple mitotic defects. Stirling DA, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1297–310

Energetics of target peptide recognition by calmodulin: a calorimetric study. Wintrode PL, et al. **J Mol Biol** 1997 Mar 14;266(5):1050–62

Effect of continuous phorbol ester treatment on muscarinic receptor-mediated calmodulin redistribution in SK-N-SH neuroblastoma cells. Shariat-Madar Z, et al. **J Neurochem** 1997 Jan;68(1):40–6

Ultrastructural evidence for the lack of co-transport of B-50/GAP-43 and calmodulin in myelinated axons of the regenerating rat sciatic nerve. Verkade P, et al. **J Neurocytol** 1996 Oct;25(10):583–95

Visualization of autophosphorylation of Ca2+/calmodulin-dependent protein kinase II in hippocampal slices. Kindler S, et al. **J Neurosci Methods** 1996 Sep;68(1):61–70

Possible involvement of tyrosine kinase activation in lipopolysaccharide-induced expression of Ca(2+)-insensitive but calmodulin-coupling nitric oxide synthase in rat glial cells. Kitamura Y, et al. **J Neurosci Res** 1996 Jan 15;43(2):235–45

Effects of brain temperature on calmodulin and microtubule-associated protein 2 immunoreactivity in the gerbil hippocampus following transient forebrain ischemia. Eguchi Y, et al. **J Neurotrauma** 1997 Feb;14(2):109–18

Cyclic GMP-gated channels of bovine rod photoreceptors: affinity, density and stoichiometry of Ca(2+)-calmodulin binding sites. Bauer PJ. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):675–85

Asymmetric interactions between phosphorylation pathways regulating ciliary beat frequency in human nasal respiratory epithelium in vitro. Smith RP, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):883–9

Calmodulin-related changes in microsomal membrane fluidity during liver regeneration. Kopeikina L, et al. **J Surg Res** 1997 Feb 1;67(2):155–62

Ca2+/calmodulin effects on cAMP response in cultured chick ciliary epithelial cells. Mishima HK, et al. **Jpn J Ophthalmol** 1995;39(4):317–22

HMN-709, a chlorobenzenesulfonamide derivative, is a new membrane-permeable calmodulin antagonist. Yokokura H, et al. **Jpn J Pharmacol** 1996 Oct;72(2):127–35

Binding affinity of proteins to hsp90 correlates with both hydrophobicity and positive charges. A surface plasmon resonance study. Csermely P, et al. **Life Sci** 1997; 61(4):411–8

Effect of insulin treatment on smooth muscle calmodulin levels in rats with long-term streptozotocin-diabetes. Aydin S, et al. **Mol Cell Endocrinol** 1996 Jan 15; 116(1):67–71

Calmodulin content, Ca2+-dependent calmodulin binding proteins, and testis growth: identification of Ca2+-dependent calmodulin binding proteins in primary spermatocytes. Trejo R, et al. **Mol Reprod Dev** 1997 Sep; 48(1):127–36

Competitive binding of alpha-actinin and calmodulin to the NMDA receptor. Wyszynski M, et al. **Nature** 1997 Jan 30;385(6615):439–42

Ca2+/calmodulin-dependent kinase II immunoreactivity in the rat hypothalamus. Hallbeck M, et al. **Neuroreport** 1996 Aug 12;7(12):1957–60

The calcium-dependent transient inactivation of recombinant NMDA receptor-channel does not involve the high affinity calmodulin binding site of the NR1 subunit. Rafiki A, et al. **Neurosci Lett** 1997 Feb 21;223(2):137–9

Functional studies of single-site variants in the calmodulin-binding domain of RC3/neurogranin in Xenopus oocytes. Watson JB, et al. **Neurosci Lett** 1996 Nov 29;219(3):183–6

The effects of altered cellular calmodulin expression on the growth and viability of C6 glioblastoma cells. Prostko CR, et al. **Oncol Res** 1997;9(1):13–7

Calcium and calmodulin are involved in blue light induction of the gsa gene for an early chlorophyll biosynthetic step in Chlamydomonas. Im CS, et al. **Plant Cell** 1996 Dec; 8(12):2245–53

Calmodulin regulation of light adaptation and store-operated dark current in Drosophila photoreceptors. Arnon A, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5894–9

Direct modulation of calmodulin targets by the neuronal calcium sensor NCS-1. Schaad NC, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9253–8

Target recognition by calmodulin: dissecting the kinetics and affinity of interaction using short peptide sequences. Bayley PM, et al. **Protein Sci** 1996 Jul;5(7):1215–28

Crystallization and preliminary diffraction analysis of Ca(2+)-calmodulin-drug and apocalmodulin-drug complexes. Vertessy BG, et al. **Proteins** 1997 May; 28(1):131–4

A synthetic peptide representing residues 7 to 21 of human luteinizing hormone beta-subunit binds calcium, facilitates calcium uptake by liposomes and possesses sequence similarity to calcium-binding domains of calmodulin. Grasso P. **Regul Pept** 1996 Sep 9;65(2):109–14

Calmodulin regulation of calcium stores in phototransduction of Drosophila. Arnon A, et al. **Science** 1997 Feb 21; 275(5303):1119–21

The roles of calmodulin, actin, and vimentin in steroid synthesis by adrenal cells. Hall PF. **Steroids** 1997 Jan; 62(1):185–9 (34 ref.)

Calcium, calmodulin and protein kinase C dependence of platelet shape change. Dandona P, et al. **Thromb Res** 1996 Jan 15;81(2):163–75

Activation-dependent and activation-independent localisation of calmodulin to the mitotic apparatus during the first cell cycle of the Lytechinus pictus embryo. Wilding M, et al. **Zygote** 1995 Aug;3(3):219–24

[A study on cAMP and Ca-CaM of the epithelium in human normal and cataractous lenses] Liu X, et al. **Chung Hua Yen Ko Tsa Chih** 1996 Mar;32(2):107–9 (Eng. Abstr.) **(Chi)**

[Calmodulin in osteogenic sarcoma] Kushlinskii NE, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):690–2 **(Rus)**

PHARMACOLOGY

Reversible depression of action potentials and force production in frog single muscle fibres by calmodulin-inhibitors. Bruton JD, et al. **Acta Physiol Scand** 1996 Apr;156(4):441–6

Modulation of the cGMP-activated conductance of the plasma membrane of photoreceptor cells by calmodulin. Kosolapov AV, et al. **Biochem Mol Biol Int** 1996 Apr; 38(5):871–7

Ca2+-dependent inhibition of G protein-coupled receptor kinase 2 by calmodulin. Haga K, et al. **Biochemistry** 1997 Feb 11;36(6):1315–21

Functional effects of econazole on inducible nitric oxide synthase: production of a calmodulin-dependent enzyme. Bogle RG, et al. **Br J Pharmacol** 1996 Mar;117(6):1053–8

Amantadine: an antiparkinsonian agent inhibits bovine brain 60 kDa calmodulin-dependent cyclic nucleotide phosphodiesterase isozyme. Kakkar R, et al. **Brain Res** 1997 Feb 28;749(2):290–4

The expression of a novel Ca2+/CaM stimulated adenylyl cyclase activity in the neuroblastoma cell line Lan-1 is regulated by cell density. Kluxen FW, et al. **Brain Res** 1996 Nov 18;740(1–2):169–74

Insect 86 kDa protein kinase C substrate is a filament interacting protein regulated by Ca2+/calmodulin and phosphorylation. Müller U. **Brain Res** 1997 May 16; 757(1):24–30

Ca2+/calmodulin and protein kinase C regulation of serotonin transport in human K562 lymphocytes. Khan NA, et al. **Cell Immunol** 1996 Sep 15;172(2):269–74

Peroxynitrite reduction of calmodulin stimulation of neuronal nitric oxide synthase. Hühmer AF, et al. **Chem Res Toxicol** 1996 Mar;9(2):484–91

Calmodulin-regulated adenylyl cyclases and neuromodulation. Xia Z, et al. **Curr Opin Neurobiol** 1997 Jun;7(3):391–6 (41 ref.)

Ca(2+)-regulated expression of aldosterone synthase is mediated by calmodulin and calmodulin-dependent protein kinases. Pezzi V, et al. **Endocrinology** 1997 Feb;138(2):835–8

A putative role for calmodulin in the activation of Neurospora crassa chitin synthase. Suresh K, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):95–100

Inhibition of G protein-coupled receptor kinase subtypes by Ca2+/calmodulin. Chuang TT, et al. **J Biol Chem** 1996 Nov 8;271(45):28691–6

Calmodulin regulates endosome fusion. Colombo MI, et al. **J Biol Chem** 1997 Mar 21;272(12):7707–12

Plasma membrane Ca2+ pump isoforms 2a and 2b are unusually responsive to calmodulin and Ca2+. Elwess NL, et al. **J Biol Chem** 1997 Jul 18;272(29):17981–6

Calmodulin promotes dimerization of the oxygenase domain of human endothelial nitric-oxide synthase. Hellermann GR, et al. **J Biol Chem** 1997 May 2;272(18):12030–4

Endothelial cells and extracellular calmodulin inhibit monocyte tumor necrosis factor release and augment neutrophil elastase release. Houston DS, et al. **J Biol Chem** 1997 May 2;272(18):11778–85

Ca2+/calmodulin causes Rab3A to dissociate from synaptic membranes. Park JB, et al. **J Biol Chem** 1997 Aug 15; 272(33):20857–65

Regulation of G protein-coupled receptor kinases by calmodulin and localization of the calmodulin binding domain. Pronin AN, et al. **J Biol Chem** 1997 Jul 18;

272(29):18273–80

Prostaglandin E2 stimulates insulin-like growth factor binding protein-4 expression and synthesis in cultured human articular chondrocytes: possible mediation by Ca(++)-calmodulin regulated processes. Di Battista JA, et al. **J Cell Biochem** 1997 Jun 1;65(3):408–19

Inhibition of cerebellar nitric oxide synthase and cyclic GMP production by melatonin via complex formation with calmodulin. Pozo D, et al. **J Cell Biochem** 1997 Jun 1; 65(3):430–42

Expression and phosphorylation of a MARCKS-like protein in gastric chief cells: further evidence for modulation of pepsinogen secretion by interaction of Ca2+/calmodulin with protein kinase C. Raufman JP, et al. **J Cell Biochem** 1997 Mar 1;64(3):514–23

Interactions of amphiphilic peptides derived from alpha s2-casein with calmodulin. Kizawa K, et al. **J Dairy Sci** 1996 Oct;79(10):1728–33

Effects of calcium and calmodulin on the binding of rat parotid secretion granules to the plasma membrane [see comments] Watkins DT, et al. **J Dent Res** 1997 Mar; 76(3):744–53. Comment in: J Dent Res 1997 Aug;76(8):1430.

Evidence for a role of calmodulin in calcium-induced noradrenaline release from permeated synaptosomes: effects of calmodulin antibodies and antagonists. Hens JJ, et al. **J Neurochem** 1996 May;66(5):1933–42

Mechanisms of inhibition of calmodulin-stimulated cyclic nucleotide phosphodiesterase by dihydropyridine calcium antagonists. Sharma RK, et al. **J Neurochem** 1997 Aug; 69(2):845–50

Calmodulin content in pancreatic islets and the response of islet membrane Ca2+ ATPase to calmodulin in phosphate depletion. Ozbasli CF, et al. **Miner Electrolyte Metab** 1996; 22(4):253–7

Suppression by calmodulin of glutamate-induced potassium current in identified snail neurons. Onozuka M, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):105–8

Calmodulin-stimulated Ca(2+)-ATPases in the vacuolar and plasma membranes in cauliflower. Askerlund P. **Plant Physiol** 1997 Jul;114(3):999–1007

Calmodulin activates nuclear protein import: a link between signal transduction and nuclear transport. Sweitzer TD, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14574–9

Toxicity of cadmium in human trophoblast cells (JAr choriocarcinoma): role of calmodulin and the calmodulin inhibitor, zaldaride maleate. Powlin SS, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):225–34

Induction of apoptosis by calmodulin-dependent intracellular Ca2+ elevation in CD4+ cells expressing gp 160 of HIV. Sasaki M, et al. **Virology** 1996 Oct 1;224(1):18–24

Inhibition of HIV-1, HIV-2 and SIV envelope glycoprotein-mediated cell fusion by calmodulin. Malvoisin E, et al. **Virus Res** 1997 Aug;50(2):119–27

Modulation of rod, but not cone, cGMP-gated photoreceptor channels by calcium-calmodulin. Haynes LW, et al. **Vis Neurosci** 1997 Mar-Apr;14(2):233–9

PHYSIOLOGY

Role of calmodulin and myosin light-chain kinase in lung ischemia-reperfusion injury. Khimenko PL, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):L121–5

Evidence for a calmodulin-dependent phospholipase A2 that inhibits Na-K-ATPase. Okafor MC, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1365–72

Regulation of taurine transport in rat astrocytes by protein kinase C: role of calcium and calmodulin. Tchoumkeu-Nzouessa GC, et al. **Am J Physiol** 1996 Apr; 270(4 Pt 1):C1022–8

Expression of a calmodulin inhibitor peptide in progenitor alveolar type II cells disrupts lung development. Wang J, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L245–50

Calmodulin decreases the estrogen binding capacity of the estrogen receptor. Bouhoute A, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):651–7

Cellular events involved in the sensitization of etoposide-resistant cells by inhibitors of calcium-calmodulin-dependent processes. Role for effects on apoptosis, DNA cleavable complex, and phosphorylation. Kawamura K, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1903–9

Targeted neutralization of calmodulin in the nucleus blocks DNA synthesis and cell cycle progression. Wang J, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):223–8

Calcium- and calmodulin-dependent phosphorylation of AMPA type glutamate receptor subunits by endogenous protein kinases in the post-synaptic density. Hayashi Y, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):338–42

Spin-labelling study of biomembranes in spontaneously hypertensive rats: calcium- and calmodulin-dependent regulation. Tsuda K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S234–6

A genetic analysis of the role of calcineurin and calmodulin in Ca++-dependent improvement of NaCl tolerance of Saccharomyces cerevisiae. Danielsson A, et al. **Curr Genet** 1996 Dec;30(6):476–84

Calmodulin regulation of cyclic-nucleotide-gated channels. Molday RS. **Curr Opin Neurobiol** 1996 Aug;6(4):445–52 (59 ref.)

Subcellular and tissue distribution, partial purification, and sequencing of calmodulin-stimulated Ca2+-transporting ATPases from barley (Hordeum vulgare L.) and tobacco (Nicotiana tabacum). Dainese P, et al. **Eur J Biochem** 1997 Feb 15;244(1):31–8

Association of calmodulin with nuclear structures in starfish oocytes and its role in the resumption of meiosis. Santella L, et al. **Eur J Biochem** 1997 Jun 15;246(3):602–10

Role of arachidonic acid and calmodulin in mediating dopamine D1- and GnRH-stimulated growth hormone release in goldfish pituitary cells. Chang JP, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):88–101

Human neutrophil secondary granule exocytosis is independent of protein kinase activation and is modified by calmodulin activity. Steadman R, et al. **Int J Biochem Cell Biol** 1996 Jul;28(7):777–86

Regulation of capacitative calcium influx in cultured human mesangial cells: roles of protein kinase C and calmodulin. Menè P, et al. **J Am Soc Nephrol** 1996 Jul;7(7):983–90

The N-terminal moiety of CDC25(Mm), a GDP/GTP exchange factor of Ras proteins, controls the activity of the catalytic domain. Modulation by calmodulin and calpain. Baouz S, et al. **J Biol Chem** 1997 Mar 7; 272(10):6671–6

Phosphorylation-dependent regulation of N-methyl-D-aspartate receptors by calmodulin. Hisatsune C, et al. **J Biol Chem** 1997 Aug 15;272(33):20805–10

NO donors stimulate noradrenaline release from rat hippocampus in a calmodulin-dependent manner in the presence of L-cysteine. Satoh S, et al. **J Cell Physiol** 1996 Oct;169(1):87–96

Calmodulin localizes to the spindle pole body of Schizosaccharomyces pombe and performs an essential function in chromosome segregation. Moser MJ, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1805–12

Ca2+/calmodulin-dependent transcriptional activation of neuropeptide Y gene induced by membrane depolarization: determination of Ca(2+)- and cyclic AMP/phorbol 12-myristate 13-acetate-responsive elements. Higuchi H, et al. **J Neurochem** 1996 May;66(5):1802–9

Regulation of synaptic facilitation by postsynaptic Ca2+/CaM pathways in hippocampal CA1 neurons. Wang JH, et al. **J Neurophysiol** 1996 Jul;76(1):276–86

Role of de novo protein synthesis and calmodulin in rapid activation of Na(+)-H+ exchange of aldosterone in frog diluting segment. Cooper GJ, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):219–23

Evidence for Ca(2+)-dependent ATPase activity, stimulated by decapacitation factor and calmodulin, in mouse sperm. Adeoya-Osiguwa SA, et al. **Mol Reprod Dev** 1996 May; 44(1):111–20

Study of the activity of head ganglion cells of larvae of the Drosophila ts-mutant with altered capacity for learning and increased activational properties of calmodulin. Tokmacheva EV. **Neurosci Behav Physiol** 1996 Sep-Dec; 26(5):435–40

The involvement of calmodulin and Ca2+/calmodulin-dependent protein kinase II in the circadian rhythms controlled by the suprachiasmatic nucleus. Fukushima T, et al. **Neurosci Lett** 1997 May 9; 227(1):45–8

Ca2+/calmodulin system: participation in the progesterone-induced facilitation of lordosis behavior in the ovariectomized estrogen-primed rat. Canchola E, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):403–7

[Cell cycle control by multifunctional protein, calmodulin] Sekiya M, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep; 41(12 Suppl):1688–94 (23 ref.) **(Jpn)**

ULTRASTRUCTURE

Ultrastructural co-localization of calmodulin and B-50/growth-associated protein-43 at the plasma membrane of proximal unmyelinated axon shafts studied in the model of the regenerating rat sciatic nerve. Verkade P, et al. **Neuroscience** 1997 Aug;79(4):1207–18

CALMODULIN-BINDING PROTEINS

Detection in living cells of Ca2+-dependent changes in the fluorescence emission of an indicator composed of two green fluorescent protein variants linked by a calmodulin-binding sequence. A new class of fluorescent indicators. Romoser VA, et al. **J Biol Chem** 1997 May 16; 272(20):13270–4

AGONISTS

Activation of the protein phosphatase calcineurin during carbachol exposure decreases the extent of recovery from end-plate desensitization. Hardwick JC, et al. **J Neurophysiol** 1996 Dec;76(6):3609–16

ANALYSIS

Reduced expression of calponin in canine basilar artery after subarachnoid haemorrhage. Doi M, et al. **Acta Neurochir (Wien)** 1997;139(1):77–81

Detection of calmodulin-binding proteins using a 32P-labeled GST-calmodulin fusion protein and a novel renaturation protocol. Fischer R, et al. **Biotechniques** 1996 Aug;21(2):292–6

Calcineurin immunoreactivity in prelimbic cortex (area 32) of the rat. Gabbott PL, et al. **Brain Res** 1997 Feb 7; 747(2):352–6

Neurogranin is locally concentrated in rat cortical and hippocampal neurons. Neuner-Jehle M, et al. **Brain Res** 1996 Sep 9;733(1):149–54

Localization of the calcium/calmodulin-dependent protein phosphatase, calcineurin, in the hindbrain and spinal cord of the rat. Strack S, et al. **J Comp Neurol** 1996 Nov 4; 375(1):66–76

Immunocytochemical localization of caldesmon and calponin in chicken gizzard smooth muscle. Mabuchi K, et al. **J Muscle Res Cell Motil** 1996 Apr;17(2):243–60

Cellular distribution of myosin-V in the guinea pig cochlea. Coling DE, et al. **J Neurocytol** 1997 Feb;26(2):113–20

Biochemical evidence for the presence of NAP-22, a novel acidic calmodulin binding protein, in the synaptic vesicles of rat brain. Yamamoto Y, et al. **Neurosci Lett** 1997 Mar 14;224(2):127–30

ANTAGONISTS & INHIBITORS

Tissue distribution and abundance of human FKBP51, and FK506-binding protein that can mediate calcineurin inhibition. Baughman G, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):437–43

Modeling the interaction between FK506 and FKBP12: a mechanism for formation of the calcineurin inhibitory complex. Ivery MT, et al. **Bioorg Med Chem** 1997 Feb; 5(2):217–32

Cyclosporin A, an inhibitor of calcineurin, impairs memory formation in day-old chicks. Bennett PC, et al. **Brain Res** 1996 Aug 19;730(1–2):107–17

Inhibition of protein phosphatase-2B (calcineurin) activity towards Alzheimer abnormally phosphorylated tau by neuroleptics. Gong CX, et al. **Brain Res** 1996 Nov 25; 741(1–2):95–102

Calcineurin inhibitors, FK506 and cyclosporin A, suppress the NMDA receptor-mediated potentials and LTP, but not depotentiation in the rat hippocampus. Lu YF, et al. **Brain Res** 1996 Aug 5;729(1):142–6

A facilitatory effect on the induction of long-term potentiation in vivo by chronic administration of antisense oligodeoxynucleotides against catalytic subunits of calcineurin. Ikegami S, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):183–91

Calcineurin inhibitor, FK506, prevents reduction in the binding capacity of cyclic AMP-dependent protein kinase in ischemic gerbil brain. Tanaka K, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):412–20

Clonal expansion of superantigen-reactive T cells is resistant to FK506 in mice with AIDS. Yoshikai Y, et al. **J Virol** 1997 Jan;71(1):746–9

FK506, a Ca2+/calmodulin-dependent phosphatase inhibitor, inhibits the induction of long-term potentiation in the rat hippocampus. Lu YF, et al. **Neurosci Lett** 1996 Feb 23;205(2):103–6

The calcineurin inhibitor cyclosporin A-cyclophilin A complex reduces desensitization of GABAA-mediated responses in acutely dissociated rat hippocampal neurons. Martina M, et al. **Neurosci Lett** 1996 Sep 6;215(2):95–8

Inhibition of calcineurin inhibits the desensitization of capsaicin-evoked currents in cultured dorsal root ganglion neurones from adult rats. Docherty RJ, et al. **Pflugers Arch** 1996 Apr;431(6):828–37

The effects of cyclosporin A on V(D)J recombination activity. Döbbeling U. **Scand J Immunol** 1997 May; 45(5):494–8

The functional consequences of partial calcineurin inhibition in human peripheral blood mononuclear leucocytes. Pazderka F, et al. **Transpl Immunol** 1996 Mar;4(1):23–31

The downstream consequences of calcineurin inhibition. Batiuk TD, et al. **Transplant Proc** 1997 Feb-Mar; 29(1–2):1239–40

BIOSYNTHESIS

Thyroid hormone-regulated expression of RC3/neurogranin in the immortalized hypothalamic cell line GT1-7. Morte B, et al. **J Neurochem** 1997 Sep;69(3):902–9

Constitutive expression of calmodulin-binding phosphoprotein GAP-43 in rat serotonergic and noradrenergic cell groups which project to the spinal cord. Wotherspoon G, et al. **Neurochem Res** 1997 Aug; 22(8):985–93

Neurogranin in the development of the rat telencephalon. Alvarez-Bolado G, et al. **Neuroscience** 1996 Jul; 73(2):565–80

Coexpression of Drosophila TRP and TRP-like proteins in Xenopus oocytes reconstitutes capacitative Ca2+ entry. Gillo B, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):14146–51

Essential role of a kinesin-like protein in Arabidopsis trichome morphogenesis. Oppenheimer DG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6261–6

CHEMISTRY

Calcineurin: not just a simple protein phosphatase. Guerini D. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):271–5 (50 ref.)

Characterization of the interaction between synapsin I and calspectin (brain spectrin or fodrin). Iga M, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):852–5

Mapping of contact sites in the caldesmon-calmodulin complex. Medvedeva MV, et al. **Biochem J** 1997 May 15; 324 (Pt 1):255–62

Characterization of novel calmodulin-binding peptides with distinct inhibitory effects on calmodulin-dependent

enzymes. Nevalainen LT, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):107–15

Characterization of the basic amphiphilic alpha-helix calmodulin-binding domain of a 61.5 kDa tobacco calmodulin-binding protein. Dash S, et al. **Biochemistry** 1997 Feb 25;36(8):2025–9

Arrangement of the COOH-terminal and NH2-terminal domains of caldesmon bound to actin. Graceffa P. **Biochemistry** 1997 Apr 1;36(13):3792–801

Tryptophan residues in caldesmon are major determinants for calmodulin binding. Graether SP, et al. **Biochemistry** 1997 Jan 14;36(2):364–9

Isotope effect studies on the calcineurin phosphoryl-transfer reaction: transition state structure and effect of calmodulin and Mn2+. Hengge AC, et al. **Biochemistry** 1997 Aug 19; 36(33):10185–91

Mutagenesis of the L7 loop connecting beta strands 12 and 13 of calcineurin: evidence for a structural role in activity changes. Wei Q, et al. **Biochemistry** 1997 Jun 17; 36(24):7418–24

Spectroscopic and enzymatic characterization of the active site dinuclear metal center of calcineurin: implications for a mechanistic role. Yu L, et al. **Biochemistry** 1997 Sep 2; 36(35):10727–34

Conformation of a protein kinase C substrate NG(28–43), and its analog in aqueous and sodium dodecyl sulfate micelle solutions. Chang DK, et al. **Biophys J** 1997 Feb; 72(2 Pt 1):554–66

The size and shape of caldesmon and its fragments in solution studied by dynamic light scattering and hydrodynamic model calculations. Czuryło EA, et al. **Biophys J** 1997 Feb; 72(2 Pt 1):835–42

Affinity and structure of complexes of tropomyosin and caldesmon domains. Hnath EJ, et al. **Biophys J** 1996 Oct; 71(4):1920–33

Phosphatidylserine liposomes can be tethered by caldesmon to actin filaments. Makuch R, et al. **Biophys J** 1997 Sep; 73(3):1607–16

Myosin-V: a class of unconventional molecular motors. Larson RE. **Braz J Med Biol Res** 1996 Mar;29(3):309–18 (46 ref.)

Foot structure and foot protein in the cross striated muscle of a pecten. Abe T, et al. **Cell Struct Funct** 1997 Feb; 22(1):21–6

Calcineurin-immunosuppressor complexes. Stoddard BL, et al. **Curr Opin Struct Biol** 1996 Dec;6(6):770–5 (39 ref.)

Structure, organization, and chromosomal mapping of the human neurogranin gene (NRGN). Martínez de Arrieta C, et al. **Genomics** 1997 Apr 15;41(2):243–9

Effect on protein phosphatase activity of peptide backbone modification and truncation of the autoinhibitory domain peptide of calcineurin. Bannow CA, et al. **Int J Pept Protein Res** 1996 Jan-Feb;47(1-2):98–102

Kinetic control of the dissociation pathway of calmodulin-peptide complexes. Brown SE, et al. **J Biol Chem** 1997 Feb 7;272(6):3389–97

Calmodulin binds to and inhibits GTP binding of the ras-like GTPase Kir/Gem. Fischer R, et al. **J Biol Chem** 1996 Oct 11;271(41):25067–70

Strong interaction between caldesmon and calponin. Graceffa P, et al. **J Biol Chem** 1996 Nov 29;271(48):30336–9

Selective recognition of phosphatidylinositol 3,4,5-trisphosphate by a synthetic peptide. Lu PJ, et al. **J Biol Chem** 1997 Jan 3;272(1):466–72

Nitric oxide modification of rat brain neurogranin. Identification of the cysteine residues involved in intramolecular disulfide bridge formation using site-directed mutagenesis. Mahoney CW, et al. **J Biol Chem** 1996 Nov 15;271(46):28798–804

Kinetic and spectroscopic analyses of mutants of a conserved histidine in the metallophosphatases calcineurin and lambda protein phosphatase. Mertz P, et al. **J Biol Chem** 1997 Aug 22;272(34):21296–302

Structure and stability of an immunoglobulin superfamily domain from twitchin, a muscle protein of the nematode Caenorhabditis elegans. Fong S, et al. **J Mol Biol** 1996 Dec 6;264(3):624–39

Conformational changes due to calcium-induced calmodulin dissociation in brush border myosin I-decorated F-actin revealed by cryoelectron microscopy and image analysis. Whittaker M, et al. **J Mol Biol** 1997 Jun 20;269(4):548–57

Limits of titin extension in single cardiac myofibrils. Linke WA, et al. **J Muscle Res Cell Motil** 1996 Aug;17(4):425–38

Characterization of a ryanodine receptor in Periplaneta americana. Schmitt M, et al. **J Recept Signal Transduct Res** 1997 Jan-May; 17(1-3):185–97

DEFICIENCY

Functional and morphological features of skeletal muscle from mutant mice lacking both type 1 and type 3 ryanodine receptors. Ikemoto T, et al. **J Physiol (Lond)** 1997 Jun 1; 501 (Pt 2):305–12

DRUG EFFECTS

Selective activation of calcineurin by dipicolinic acid. Martin BL. **Arch Biochem Biophys** 1997 Sep 15;345(2):332–8

GENETICS

Polymorphism of gamma-adducin gene in genetic hypertension and mapping of the gene to rat chromosome 1q55. Tripodi G, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):685–9

Functional equivalence of native light-sensitive channels in the Drosophila trp301 mutant and TRPL cation channels expressed in a stably transfected Drosophila cell line. Hardie RC, et al. **Cell Calcium** 1997 Jun;21(6):431–40

Cloning, expression and chromosome mapping of adducin-like 70 (ADDL), a human cDNA highly homologous to human erythrocyte adducin. Katagiri T, et al. **Cytogenet Cell Genet** 1996;74(1–2):90–5

Calcineurin A alpha (PPP3CA), calcineurin A beta (PPP3CB) and calcineurin B (PPP3R1) are located on human chromosomes 4, 10q21—>q22 and 2p16—>p15 respectively. Wang MG, et al. **Cytogenet Cell Genet** 1996; 72(2–3):236–41

Role of Adducin-like (hu-li tai shao) mRNA and protein localization in regulating cytoskeletal structure and function during Drosophila Oogenesis and early embryogenesis. Zaccai M, et al. **Dev Genet** 1996; 19(3):249–57

Calcineurin is required for virulence of Cryptococcus neoformans. Odom A, et al. **EMBO J** 1997 May 15; 16(10):2576–89

A new expression vector for high level protein production, one step purification and direct isotopic labeling of calmodulin-binding peptide fusion proteins. Zheng CF, et al. **Gene** 1997 Feb 20;186(1):55–60

Organization of the human beta-adducin gene (ADD2). Gilligan DM, et al. **Genomics** 1997 Jul 15;43(2):141–8

Coordinate expression of alpha-tropomyosin and caldesmon isoforms in association with phenotypic modulation of smooth muscle cells. Kashiwada K, et al. **J Biol Chem** 1997 Jun 13;272(24):15396–404

Detection of a novel mutation in the ryanodine receptor gene in an Irish malignant hyperthermia pedigree: correlation of the IVCT response with the affected and unaffected haplotypes. Keating KE, et al. **J Med Genet** 1997 Apr; 34(4):291–6

Cytoskeletal changes in the brains of mice lacking calcineurin A alpha. Kayyali US, et al. **J Neurochem** 1997 Apr; 68(4):1668–78

Absence of Ca2+ current facilitation in skeletal muscle of transgenic mice lacking the type 1 ryanodine receptor. Fleig A, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):339–45

Functional and morphological features of skeletal muscle from mutant mice lacking both type 1 and type 3 ryanodine receptors. Ikemoto T, et al. **J Physiol (Lond)** 1997 Jun 1; 501 (Pt 2):305–12

Polymorphisms of alpha-adducin and salt sensitivity in patients with essential hypertension [see comments] Cusi D, et al. **Lancet** 1997 May 10;349(9062):1353–7. Comment in: Lancet 1997 May 10;349(9062):1338–9.

In vivo calcineurin crystals formed using the baculovirus expression system. Fan GY, et al. **Microsc Res Tech** 1996 May 1;34(1):77–86

Functional studies of single-site variants in the calmodulin-binding domain of RC3/neurogranin in Xenopus oocytes. Watson JB, et al. **Neurosci Lett** 1996 Nov 29;219(3):183–6

[Cloning cDNA for human neurogranin] Mertsalov IB, et al. **Bioorg Khim** 1996 May;22(5):366–9 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Ca2+/calmodulin-binding proteins in yeast. Catabolite repression and induction by carbon sources. dos Santos CF, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):359–66

Identification of NAP-22 and GAP-43 (neuromodulin) as major protein components in a Triton insoluble low density fraction of rat brain. Maekawa S, et al. **Biochim Biophys Acta** 1997 Jan 14;1323(1):1–5

Purification and characterization of a kinase-associated, myofibrillar smooth muscle myosin light chain phosphatase possessing a calmodulin-targeting subunit. Sobieszek A, et al. **J Biol Chem** 1997 Mar 14;272(11):7027–33

METABOLISM

Endogenous ADP-ribosylation of phosphoprotein B-50/GAP-43 and other neuronal substrates. Zwiers H, et al. **Adv Exp Med Biol** 1997;419:279–88

Occurrence of a para-nitrophenyl phosphate-phosphatase with calcineurin-like characteristics in Paramecium tetraurelia. Kissmehl R, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):260–70

Tissue distribution and abundance of human FKBP51, and FK506-binding protein that can mediate calcineurin inhibition. Baughman G, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):437–43

Utilization of troponin C as a model calcium-binding protein for mapping of the calmodulin-binding sites of caldesmon. Polyakov AA, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):873–8

Dynamic equilibrium between calcineurin and kinase activities regulates the phosphorylation state and localization of the nuclear factor of activated T-cells. Scott JE, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):597–603

Connexin 32 of gap junctions contains two cytoplasmic calmodulin-binding domains. Török K, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):479–83

Class II pyrethroids: noninhibitors calcineurin. Enz A, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):321–3

The inhibitory complex of smooth muscle caldesmon with actin and tropomyosin involves three interacting segments of the C-terminal domain 4. Fraser ID, et al. **Biochemistry** 1997 May 6;36(18):5483–92

Tryptophan residues in caldesmon are major determinants for calmodulin binding. Graether SP, et al. **Biochemistry** 1997 Jan 14;36(2):364–9

Cardiac high molecular weight calmodulin binding protein contains calpastatin activity. Kakkar R, et al. **Biochemistry** 1997 Sep 30;36(39):11550–5

Interaction of calmodulin-binding domain peptides of nitric oxide synthase with membrane phospholipids: regulation by protein phosphorylation and Ca(2+)-calmodulin. Matsubara M, et al. **Biochemistry** 1996 Nov 19; 35(46):14651–8

Overexpression and purification of human calcineurin alpha from Escherichia coli and assessment of catalytic functions of residues surrounding the binuclear metal center. Mondragon A, et al. **Biochemistry** 1997 Apr 22; 36(16):4934–42

Mutagenesis of the L7 loop connecting beta strands 12 and 13 of calcineurin: evidence for a structural role in activity changes. Wei Q, et al. **Biochemistry** 1997 Jun 17; 36(24):7418–24

Spectroscopic and enzymatic characterization of the active site dinuclear metal center of calcineurin: implications for a mechanistic role. Yu L, et al. **Biochemistry** 1997 Sep 2; 36(35):10727–34

NMR studies of caldesmon-calmodulin interactions. Zhou N, et al. **Biochemistry** 1997 Mar 11;36(10):2817–25

Cleavage of caldesmon and calponin by calpain: substrate recognition is not dependent on calmodulin binding domains. Croall DE, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):276–84

Identification of beta2-glycoprotein I as a membrane-associated protein in kidney: purification by calmodulin affinity chromatography. Klaerke DA, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):203–16

Regulation of calcium-induced exocytosis from gastric chief cells by protein phosphatase-2B (calcineurin). Raufman JP, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):73–80

Affinity and structure of complexes of tropomyosin and caldesmon domains. Hnath EJ, et al. **Biophys J** 1996 Oct; 71(4):1920–33

Recovery of polypeptides cleaved from purified calmodulin-binding peptide fusion proteins. Vaillancourt P, et al. **Biotechniques** 1997 Mar;22(3):451–3

Novel interaction of apolipoprotein(a) with beta-2 glycoprotein I mediated by the kringle IV domain. Köchl S, et al. **Blood** 1997 Aug 15;90(4):1482–9

Enhanced phosphorylation of the postsynaptic protein kinase C substrate RC3/neurogranin during long-term potentiation. Chen SJ, et al. **Brain Res** 1997 Feb 28; 749(2):181–7

Effect of thyroid hormone deficiency on RC3/neurogranin mRNA expression in the prenatal and adult caprine brain. Piosik PA, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):227–35

Expression of the cardiac ryanodine receptor in the compensated phase of hypertrophy in rat heart. Rannou F, et al. **Cardiovasc Res** 1996 Aug;32(2):258–65

CREB phosphorylation and dephosphorylation: a Ca(2+)- and stimulus duration-dependent switch for hippocampal gene expression. Bito H, et al. **Cell** 1996 Dec 27; 87(7):1203–14

Coassembly of TRP and TRPL produces a distinct store-operated conductance. Xu XZ, et al. **Cell** 1997 Jun 27;89(7):1155–64

Apoptosis induced by inhibitors of the plasma membrane NADH-oxidase involves Bcl-2 and calcineurin. Wolvetang EJ, et al. **Cell Growth Differ** 1996 Oct;7(10):1315–25

Overexpression of microfilament-stabilizing human caldesmon fragment, CaD39, affects cell attachment, spreading, and cytokinesis. Warren KS, et al. **Cell Motil Cytoskeleton** 1996;34(3):215–29

Characterization of chicken gizzard calcyclin and examination of its interaction with caldesmon. Filipek A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr;113(4):745–52

The two intracellular Ca2+ release channels, ryanodine receptor and inositol 1,4,5-trisphosphate receptor, play different roles during fertilization in ascidians. Albrieux M, et al. **Dev Biol** 1997 Sep 15;189(2):174–85

Giant protein kinases: domain interactions and structural basis of autoregulation. Kobe B, et al. **EMBO J** 1996 Dec 16; 15(24):6810–21

Direct activation of trpl cation channels by G alpha11 subunits. Obukhov AG, et al. **EMBO J** 1996 Nov 1; 15(21):5833–8

RIC, a calmodulin-binding Ras-like GTPase. Wes PD, et al. **EMBO J** 1996 Nov 1;15(21):5839–48

Substrate specificity and inhibitor sensitivity of Ca2+/S100-dependent twitchin kinases. Heierhorst J, et al. **Eur J Biochem** 1996 Dec 15;242(3):454–9

Disruption of the actin cytoskeleton in living nonmuscle cells by microinjection of antibodies to domain-3 of caldesmon. Lamb NJ, et al. **Eur J Cell Biol** 1996 Jan;69(1):36–44

Immunocytochemical electron microscopic study and Western blot analysis of caldesmon and calponin in striated muscle of the fruit fly Drosophila melanogaster and in several muscle cell types of the earthworm Eisenia foetida. Royuela M, et al. **Eur J Cell Biol** 1997 Jan;72(1):90–4

CALMODULIN-BINDING PROTEINS

Sequence motifs for calmodulin recognition. Rhoads AR, et al. **FASEB J** 1997 Apr;11(5):331–40 (95 ref.)

Calcineurin and mitochondrial function in glutamate-induced neuronal cell death. Ankarcrona M, et al. **FEBS Lett** 1996 Oct 7;394(3):321–4

Nuclear localization of NF-ATc by a calcineurin-dependent, cyclosporin-sensitive intramolecular interaction. Beals CR, et al. **Genes Dev** 1997 Apr 1;11(7):824–34

Calponin distribution in human ciliary muscle and other anterior segment tissues. Kashiwagi K, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):349–56

Regulation of the transforming growth factor beta-responsive transcription factor CTF-1 by calcineurin and calcium/calmodulin-dependent protein kinase IV. Alevizopoulos A, et al. **J Biol Chem** 1997 Sep 19; 272(38):23597–605

Functional characterization of the recombinant type 3 Ca2+ release channel (ryanodine receptor) expressed in HEK293 cells. Chen SRW, et al. **J Biol Chem** 1997 Sep 26; 272(39):24234–46

Regulated binding of the protein kinase C substrate GAP-43 to the V0/C2 region of protein kinase C-delta. Dekker LV, et al. **J Biol Chem** 1997 May 9;272(19):12747–53

Amyloid alpha peptide formation in cell-free preparations. Regulation by protein kinase C, calmodulin, and calcineurin. Desdouits F, et al. **J Biol Chem** 1996 Oct 4; 271(40):24670–4

Ryanodine receptor type III (Ry3R) identification in mouse parotid acini. Properties and modulation of [3H]ryanodine-binding sites. DiJulio DH, et al. **J Biol Chem** 1997 Jun 20;272(25):15687–96

The effects of smooth muscle calponin on the strong and weak myosin binding sites of F-actin. EL-Mezgueldi M, et al. **J Biol Chem** 1996 Nov 8;271(45):28161–7

Calmodulin binds to and inhibits GTP binding of the ras-like GTPase Kir/Gem. Fischer R, et al. **J Biol Chem** 1996 Oct 11;271(41):25067–70

Analysis of the role of calmodulin binding and sequestration in neuromodulin (GAP-43) function. Gamby C, et al. **J Biol Chem** 1996 Oct 25;271(43):26698–705

Contributions of myristoylation to calcineurin structure/function. Kennedy MT, et al. **J Biol Chem** 1996 Oct 25;271(43):26517–21

Adducin regulation. Definition of the calmodulin-binding domain and sites of phosphorylation by protein kinases A and C. Matsuoka Y, et al. **J Biol Chem** 1996 Oct 11; 271(41):25157–66

Activated calcineurin confers high tolerance to ion stress and alters the budding pattern and cell morphology of yeast cells. Mendoza I, et al. **J Biol Chem** 1996 Sep 20; 271(38):23061–7

Nitric oxide modification of rat brain neurogranin affects its phosphorylation by protein kinase C and affinity for calmodulin. Sheu FS, et al. **J Biol Chem** 1996 Sep 13; 271(37):22407–13

Expression of the ryanodine receptor type 3 calcium release channel during development and differentiation of mammalian skeletal muscle cells. Tarroni P, et al. **J Biol Chem** 1997 Aug 8;272(32):19808–13

Functional and structural relationship between the calmodulin-binding, actin-binding, and actomyosin-ATPase inhibitory domains on the C terminus of smooth muscle caldesmon. Wang Z, et al. **J Biol Chem** 1997 Jul 4;272(27):16896–903

A region of the ryanodine receptor critical for excitation-contraction coupling in skeletal muscle. Yamazawa T, et al. **J Biol Chem** 1997 Mar 28; 272(13):8161–4

Heat treatment could affect the biochemical properties of caldesmon. Zhuang S, et al. **J Biol Chem** 1996 Nov 22; 271(47):30242–8

Brain myosin V is a synaptic vesicle-associated motor protein: evidence for a Ca2+-dependent interaction with the synaptobrevin-synaptophysin complex. Prekeris R, et al. **J Cell Biol** 1997 Jun 30;137(7):1589–601

Myosin V associates with melanosomes in mouse melanocytes: evidence that myosin V is an organelle motor. Wu X, et al. **J Cell Sci** 1997 Apr;110 (Pt 7):847–59

Aldosterone and dexamethasone stimulate calcineurin activity through a transcription-independent mechanism involving steroid receptor-associated heat shock proteins. Tumlin JA, et al. **J Clin Invest** 1997 Mar 15;99(6):1217–23

Mechanism of Ca(2+)-dependent inactivation of L-type Ca2+ channels in GH3 cells: direct evidence against dephosphorylation by calcineurin. Victor RG, et al. **J Membr Biol** 1997 Mar 1;156(1):53–61

Assembly of the cardiac I-band region of titin/connectin: expression of the cardiac-specific regions and their structural relation to the elastic segments. Gautel M, et al. **J Muscle Res Cell Motil** 1996 Aug;17(4):449–61

Reduction of calcineurin enzymatic activity in Alzheimer's disease: correlation with neuropathologic changes. Ladner CJ, et al. **J Neuropathol Exp Neurol** 1996 Aug;55(8):924–31

Postsynaptic calcineurin activity downregulates synaptic transmission by weakening intracellular Ca2+ signaling mechanisms in hippocampal CA1 neurons. Wang JH, et al. **J Neurosci** 1997 Jun 15;17(12):4600–11

Kinetic model for phototransduction and G-protein enzyme cascade: understanding quantal bumps during inhibition of CaM-KII or PP2B. Kass L, et al. **J Photochem Photobiol B** 1996 Aug;35(1–2):105–13

Absence of Ca2+ current facilitation in skeletal muscle of transgenic mice lacking the type 1 ryanodine receptor. Fleig A, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):339–45

Activation of MAP kinases and phosphorylation of caldesmon in canine colonic smooth muscle. Gerthoffer WT, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):597–609

In vivo calcineurin crystals formed using the baculovirus expression system. Fan GY, et al. **Microsc Res Tech** 1996 May 1;34(1):77–86

Calcineurin-dependent nuclear translocation of a murine transcription factor NFATx: molecular cloning and functional characterization. Liu J, et al. **Mol Biol Cell** 1997 Jan;8(1):157–70

An essential role of the yeast pheromone-induced Ca2+ signal is to activate calcineurin. Withee JL, et al. **Mol Biol Cell** 1997 Feb;8(2):263–77

Unaltered ryanodine receptor protein levels in ischemic cardiomyopathy. Schillinger W, et al. **Mol Cell Biochem** 1996 Jul-Aug;160–161:297–302

Control of NFATx1 nuclear translocation by a calcineurin-regulated inhibitory domain. Masuda ES, et al. **Mol Cell Biol** 1997 Apr;17(4):2066–75

Calmodulin content, Ca2+-dependent calmodulin binding proteins, and testis growth: identification of Ca2+-dependent calmodulin binding proteins in primary spermatocytes. Trejo R, et al. **Mol Reprod Dev** 1997 Sep; 48(1):127–36

Suppression of signalling through transcription factor NF-AT by interactions between calcineurin and Bcl-2. Shibasaki F, et al. **Nature** 1997 Apr 17;386(6626):728–31

Superoxide dismutase protects calcineurin from inactivation. Wang X, et al. **Nature** 1996 Oct 3;383(6599):434–7

Neurotransmitter-induced inhibition of exocytosis in insulin-secreting beta cells by activation of calcineurin. Renström E, et al. **Neuron** 1996 Sep;17(3):513–22

Glutamate stimulates neurogranin phosphorylation in cultured rat hippocampal neurons. Rodríguez-Sánchez P, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):137–40

Functional studies of single-site variants in the calmodulin-binding domain of RC3/neurogranin in Xenopus oocytes. Watson JB, et al. **Neurosci Lett** 1996 Nov 29;219(3):183–6

Evidence for colocalization of calcineurin and calcium channels in dorsal root ganglion neurons. Lukyanetz EA. **Neuroscience** 1997 Jun;78(3):625–8

Calcineurin in the adult rat hippocampus: different distribution in CA1 and CA3 subfields. Morioka M, et al. **Neuroscience** 1997 Jun;78(3):673–84

Characterization of calcineurin from Hymenolepis microstoma and H. diminuta and its interaction with cyclosporin A. Roberts HC, et al. **Parasitology** 1997 Mar; 114 (Pt 3):279–83

The pharmacology of ryanodine and related compounds. Sutko JL, et al. **Pharmacol Rev** 1997 Mar;49(1):53–98 (196 ref.)

The sarcoplasmic reticulum Ca2+ channel/ryanodine receptor: modulation by endogenous effectors, drugs and disease states. Zucchi R, et al. **Pharmacol Rev** 1997 Mar; 49(1):1–51 (759 ref.)

Structure-activity relationship of xanthines and skeletal muscle ryanodine receptor/Ca2+ release channel. Liu W, et al. **Pharmacology** 1997 Mar;54(3):135–43

Interaction of calcineurin with a domain of the transcription factor NFAT1 that controls nuclear import. Luo C, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8907–12

In vitro motility of AtKCBP, a calmodulin-binding kinesin protein of Arabidopsis. Song H, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):322–7

Dynamic NMR studies of ligand-receptor interactions: design and analysis of a rapidly exchanging complex of FKBP-12/FK506 with a 24 kDa calcineurin fragment. Fejzo J, et al. **Protein Sci** 1996 Sep;5(9):1917–21

Amphetamine increases the phosphorylation of neuromodulin and synapsin I in rat striatal synaptosomes. Iwata S, et al. **Synapse** 1997 Jul;26(3):281–91

Differential distributions of two adducin-like protein isoforms in the Drosophila ovary and early embryo. Zaccai M, et al. **Zygote** 1996 May;4(2):159–66

PHARMACOLOGY

Inhibition of cross-bridge binding to actin by caldesmon fragments in skinned skeletal muscle fibers. Heubach JF, et al. **Biophys J** 1997 Mar;72(3):1287–94

Three-dimensional image reconstruction of reconstituted smooth muscle thin filaments: effects of caldesmon. Hodgkinson JL, et al. **Biophys J** 1997 Jun;72(6):2398–404

Modulation by calcineurin of 5-HT3 receptor function in NG108-15 neuroblastoma x glioma cells. Boddeke HW, et al. **Br J Pharmacol** 1996 Aug;118(7):1836–40

Mutagenesis analysis of functionally important domains within the C-terminal end of smooth muscle caldesmon. Wang Z, et al. **J Biol Chem** 1996 Oct 11;271(41):25707–14

Exogenous caldesmon promotes relaxation of guinea-pig skinned taenia coli smooth muscles: inhibition of cooperative reattachment of latch bridges? Albrecht K, et al. **Pflugers Arch** 1997 Sep;434(5):534–42

[Natriuresis: new concepts from molecular biology (editorial)] Ibarra FR. **Medicina (B Aires)** 1995;55(4):379–80 **(Spa)**

PHYSIOLOGY

Presynaptic phosphoprotein B-50/GAP-43 in neuronal and synaptic plasticity. Biewenga JE, et al. **Acta Biochim Pol** 1996;43(2):327–38 (121 ref.)

Twitchin and related giant Ig superfamily members of C. elegans and other invertebrates. Benian GM, et al. **Adv Biophys** 1996;33:183–98 (58 ref.)

Comparative aspects of muscle elastic proteins. Kawamura Y, et al. **Adv Biophys** 1996;33:175–81 (29 ref.)

Properties of single Drosophila Trpl channels expressed in Sf9 insect cells. Kunze DL, et al. **Am J Physiol** 1997 Jan; 272(1 Pt 1):C27–34

Calcineurin: not just a simple protein phosphatase. Guerini D. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):271–5 (50 ref.)

The inhibitory complex of smooth muscle caldesmon with actin and tropomyosin involves three interacting segments of the C-terminal domain 4. Fraser ID, et al. **Biochemistry** 1997 May 6;36(18):5483–92

Differential modulation of cortical synaptic activity by calcineurin (phosphatase 2B) versus phosphatases 1 and 2A. Thomas GD, et al. **Brain Res** 1997 Feb 21;749(1):101–8

alpha-adducin may control blood pressure both in rats and humans. Bianchi G, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S7–9

Motor proteins: myosin V--the multi-purpose transport motor. Titus MA. **Curr Biol** 1997 May 1;7(5):R301–4 (26 ref.)

A genetic analysis of the role of calcineurin and calmodulin in Ca++-dependent improvement of NaCl tolerance of Saccharomyces cerevisiae. Danielsson A, et al. **Curr Genet** 1996 Dec;30(6):476–84

A role for calcineurin in Dictyostelium discoideum development. Horn F, et al. **Differentiation** 1996 Sep; 60(5):269–75

The functions of two species of calcium channel in cardiac muscle excitation-contraction coupling. Williams AJ. **Eur Heart J** 1997 Jan;18 Suppl A:A27–35 (50 ref.)

Endothelial cells and extracellular calmodulin inhibit monocyte tumor necrosis factor release and augment neutrophil elastase release. Houston DS, et al. **J Biol Chem** 1997 May 2;272(18):11778–85

Activation of nuclear factor-kappaB via T cell receptor requires a Raf kinase and Ca2+ influx. Functional synergy between Raf and calcineurin. Kanno T, et al. **J Immunol** 1996 Dec 15;157(12):5277–83

Calcineurin modulates G protein-mediated inhibition of N-type calcium channels in rat sympathetic neurons. Zhu Y, et al. **J Neurophysiol** 1997 Aug;78(2):1161–5

Shaping of IPSCs by endogenous calcineurin activity. Jones MV, et al. **J Neurosci** 1997 Oct 15;17(20):7626–33

Rin, a neuron-specific and calmodulin-binding small G-protein, and Rit define a novel subfamily of ras proteins. Lee CHJ, et al. **J Neurosci** 1996 Nov 1;16(21):6784–94

Calcineurin mutants render T lymphocytes resistant to cyclosporin A. Zhu D, et al. **Mol Pharmacol** 1996 Sep; 50(3):506–11

A role for calcineurin in the desensitization of the P2X3 receptor. King B, et al. **Neuroreport** 1997 Mar 24; 8(5):1099–102

An inhibitory role of calcineurin in endocytosis of synaptic vesicles at nerve terminals of Drosophila larvae. Kuromi H, et al. **Neurosci Res** 1997 Feb;27(2):101–13

Control of Ca2+ channel current and exocytosis in rat lactotrophs by basally active protein kinase C and calcineurin. Fomina AF, et al. **Neuroscience** 1997 May; 78(2):523–31

The effects of caldesmon extraction on mechanical properties of skinned smooth muscle fibre preparations. Malmqvist U, et al. **Pflugers Arch** 1996 Jun;432(2):241–7

Calcineurin regulation of synaptic function: from ion channels to transmitter release and gene transcription. Yakel JL. **Trends Pharmacol Sci** 1997 Apr;18(4):124–34 (63 ref.)

[Calcineurin-mediated signalling important for growth regulation in yeast] Hirata D, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1695–703 (40 ref.) **(Jpn)**

ULTRASTRUCTURE

Phosphatidylserine liposomes can be tethered by caldesmon to actin filaments. Makuch R, et al. **Biophys J** 1997 Sep; 73(3):1607–16

Ryanodine receptors: structure and macromolecular interactions. Wagenknecht T, et al. **Curr Opin Struct Biol** 1997 Apr;7(2):258–65 (63 ref.)

CALMODULIN-DEPENDENT PROTEIN KINASES

Structure, regulation, and function of calcium/calmodulin-dependent protein kinase I. Picciotto MR, et al. **Adv Pharmacol** 1996;36:251–75 (72 ref.)

Mitogenic signaling via G protein-coupled receptors. van Biesen T, et al. **Endocr Rev** 1996 Dec;17(6):698–714 (272 ref.)

The critical role of p38 MAP kinase in T cell HIV-1 replication. Cohen PS, et al. **Mol Med** 1997 May; 3(5):339–46

[Ca2+/calmodulin dependent protein kinase cascade] Okuno S, et al. **Seikagaku** 1996 May;68(5):380–5 (15 ref.) **(Jpn)**

AGONISTS

Agonist activation of p42 and p44 mitogen-activated protein kinases following expression of the mouse delta opioid receptor in Rat-1 fibroblasts: effects of receptor expression levels and comparisons with G-protein activation. Burt AR, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):227-35

Cyclic AMP inhibits activation of mitogen-activated protein kinase and cell proliferation in response to growth factors in cultured rat cortical astrocytes. Kuino M, et al. **J Neurochem** 1996 Dec;67(6):2246-55

ANALYSIS

Peptide substrates suitable for assaying glycogen synthase kinase-3 in crude cell extracts. Welsh GI, et al. **Anal Biochem** 1997 Jan 1;244(1):16-21

Increased MAPK expression and activity in primary human hepatocellular carcinoma. Schmidt CM, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):54-8

Immunohistochemical localization of Ca2+/calmodulin-dependent protein kinase type IV in the mature and developing rat retina. Sakagami H, et al. **Brain Res** 1996 May 6;719(1-2):154-60

Elongation factor-2 kinase: immunological evidence for the existence of tissue-specific isoforms. Hait WN, et al. **FEBS Lett** 1996 Nov 11;397(1):55-60

Association of protein kinase FA/GSK-3alpha (a proline-directed kinase and a regulator of protooncogenes) with human cervical carcinoma dedifferentiation/progression. Yang SD, et al. **J Cell Biochem** 1995 Oct;59(2):143-50

Co-distribution of calmodulin-dependent protein kinase II and inositol trisphosphate receptors in an apical domain of gastrointestinal mucosal cells. Matovcik LM, et al. **J Histochem Cytochem** 1996 Nov;44(11):1243-50

Characterization of microtubule-associated protein 1-associated protein kinases from rat brain. Fujii T, et al. **Neurochem Int** 1996 May-Jun;28(5-6):535-44

Alpha isoform of calcium-calmodulin dependent protein kinase II (CAM II kinase-alpha) restricted to excitatory synapses in the CA1 region of rat hippocampus. Liu X, et al. **Neuroreport** 1997 Apr 14;8(6):1475-9

Protein kinase and protein phosphatase presence in the stria vascularis. Agrup C, et al. **Pflugers Arch** 1997 Mar; 433(5):603-8

ANTAGONISTS & INHIBITORS

Molecular and cellular pharmacology of a calcium/calmodulin-dependent protein kinase II (CaM kinase II) inhibitor, KN-62, and proposal of CaM kinase phosphorylation cascades. Hidaka H, et al. **Adv Pharmacol** 1996;36:193-219 (84 ref.)

Inhibition of the expression of inducible cyclooxygenase and proinflammatory cytokines by sesquiterpene lactones in macrophages correlates with the inhibition of MAP kinases. Hwang D, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):810-8

Rapamycin potentiates dexamethasone-induced apoptosis and inhibits JNK activity in lymphoblastoid cells. Ishizuka T, et al. **Biochem Biophys Res Commun** 1997 Jan 13; 230(2):386-91

Angiotensin II type 2 receptors mediate inhibition of mitogen-activated protein kinase cascade and functional activation of SHP-1 tyrosine phosphatase. Bedecs K, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):449-54

Characterization of novel calmodulin-binding peptides with distinct inhibitory effects on calmodulin-dependent enzymes. Nevalainen LT, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):107-15

Tumour necrosis factor-alpha-induced phosphorylation and activation of cytosolic phospholipase A2 are abrogated by an inhibitor of the p38 mitogen-activated protein kinase cascade in human neutrophils. Waterman WH, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):17-20

Cellular events involved in the sensitization of etoposide-resistant cells by inhibitors of calcium-calmodulin-dependent processes. Role for effects on apoptosis, DNA cleavable complex, and phosphorylation. Kawamura K, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1903-9

Inhibition of M3 muscarinic acetylcholine receptor-mediated Ca2+ influx and intracellular Ca2+ mobilization in neuroblastoma cells by the Ca2+/calmodulin-dependent protein kinase inhibitor 1-[N,O-bis(5-isoquinolinesulfonyl)-N-methyl-L-trosyl]-4-phenylpiperazin e (KN-62). Puhl HL, et al. **Biochem Pharmacol** 1997 Apr 25;53(8):1107-14

A p38 MAP kinase inhibitor SB203580 inhibits CD28-dependent T cell proliferation and IL-2 production. Ward SG, et al. **Biochem Soc Trans** 1997 May;25(2):304S

Multivalent ganglioside and sphingosine conjugates modulate myelin protein kinases. Mahoney JA, et al. **Biochim Biophys Acta** 1997 Aug 14;1328(1):30-40

Regulation of stress-induced cytokine production by pyridinylimidazoles; inhibition of CSBP kinase. Gallagher TF, et al. **Bioorg Med Chem** 1997 Jan;5(1):49-64

Inhibition by pentoxifylline of extracellular signal-regulated kinase activation by platelet-derived growth factor in hepatic stellate cells. Pinzani M, et al. **Br J Pharmacol** 1996 Nov;119(6):1117-24

The identification of DL-threo dihydrosphingosine and sphingosine as novel inhibitors of extracellular signal-regulated kinase signalling in airway smooth muscle. Tolan D, et al. **Br J Pharmacol** 1996 Sep;119(2):185-6

Effects of rottlerin, an inhibitor of calmodulin-dependent protein kinase III, on cellular proliferation, viability, and cell cycle distribution in malignant glioma cells. Parmer TG, et al. **Cell Growth Differ** 1997 Mar;8(3):327-34

The structural basis for the specificity of pyridinylimidazole inhibitors of p38 MAP kinase. Wilson KP, et al. **Chem Biol** 1997 Jun;4(6):423-31

Lithium inhibits glycogen synthase kinase-3 activity and mimics wingless signalling in intact cells [published erratum appears in Curr Biol 1997 Mar 1;7(3):196] Stambolic V, et al. **Curr Biol** 1996 Dec 1;6(12):1664-8

Wingless inactivates glycogen synthase kinase-3 via an intracellular signalling pathway which involves a protein kinase C. Cook D, et al. **EMBO J** 1996 Sep 2; 15(17):4526-36

A new and potent calmodulin antagonist, HF-2035, which inhibits vascular relaxation induced by nitric oxide synthase. Win NH, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1-3):119-26

A somatostatin analogue inhibits MAP kinase activation and cell proliferation in human neuroblastoma and in human small cell lung carcinoma cell lines. Cattaneo MG, et al. **FEBS Lett** 1996 Nov 18;397(2-3):164-8

Insulin activates protein kinase B, inhibits glycogen synthase kinase-3 and activates glycogen synthase by rapamycin-insensitive pathways in skeletal muscle and adipose tissue. Cross DA, et al. **FEBS Lett** 1997 Apr 7; 406(1-2):211-5

Insulin activates a PD 098059-sensitive kinase that is involved in the regulation of p70S6K and PHAS-I. Scott PH, et al. **FEBS Lett** 1997 Jun 9;409(2):171-6

Calcium pyrophosphate dihydrate crystals activate MAP kinase in human neutrophils: inhibition of MAP kinase, oxidase activation and degranulation responses of neutrophils by taxol. Jackson JK, et al. **Immunology** 1997 Apr;90(4):502-10

Conditional expression of the mitogen-activated protein kinase (MAPK) phosphatase MKP-1 preferentially inhibits p38 MAPK and stress-activated protein kinase in U937 cells. Franklin CC, et al. **J Biol Chem** 1997 Jul 4; 272(27):16917-23

Mitogen-activated protein kinase phosphatases inactivate stress-activated protein kinase pathways in vivo. Hirsch DD, et al. **J Biol Chem** 1997 Feb 14;272(7):4568-75

Lithium reduces tau phosphorylation by inhibition of glycogen synthase kinase-3. Hong M, et al. **J Biol Chem** 1997 Oct 3;272(40):25326-32

Two protein-tyrosine phosphatases inactivate the osmotic stress response pathway in yeast by targeting the mitogen-activated protein kinase, Hog1. Jacoby T, et al. **J Biol Chem** 1997 Jul 11;272(28):17749-55

Yersinia enterocolitica promotes deactivation of macrophage mitogen-activated protein kinases extracellular signal-regulated kinase-1/2, p38, and c-Jun NH2-terminal kinase. Correlation with its inhibitory effect on tumor necrosis factor-alpha production. Ruckdeschel K, et al. **J Biol Chem** 1997 Jun 20;272(25):15920-7

Inhibitory cross-talk by cAMP kinase on the calmodulin-dependent protein kinase cascade. Wayman GA, et al. **J Biol Chem** 1997 Jun 27;272(26):16073-6

Stimulated mitogen-activated protein kinase is necessary but not sufficient for the mitogenic response to angiotensin II. A role for phospholipase D. Wilkie N, et al. **J Biol Chem** 1996 Dec 13;271(50):32447-53

Pyridinyl imidazole inhibitors of p38 mitogen-activated protein kinase bind in the ATP site. Young PR, et al. **J Biol Chem** 1997 May 2;272(18):12116-21

Calphostin C induces tyrosine dephosphorylation/inactivation of protein kinase FA/GSK-3 alpha in a pathway independent of tumor promoter phorbol ester-mediated down-regulation of protein kinase C. Lee SC, et al. **J Cell Biochem** 1996 Jan; 60(1):121-9

Inhibition of prostaglandin endoperoxide synthase-2 expression in stimulated human monocytes by inhibitors of p38 mitogen-activated protein kinase. Pouliot M, et al. **J Immunol** 1997 May 15;158(10):4930-7

Activation of the mitogen-activated protein kinase cascade is suppressed by low concentrations of dexamethasone in mast cells. Rider LG, et al. **J Immunol** 1996 Sep 15; 157(6):2374-80

Regulation of phospholipid biosynthesis by Ca(2+)-calmodulin-dependent protein kinase inhibitors. Dumaurier MJ, et al. **J Lipid Mediat Cell Signal** 1997 May; 16(1):39-52

The actions of calmodulin antagonists W-7 and TFP and of calcium on the gating kinetics of the calcium-activated large conductance potassium channel of the chara protoplasmic drop: a substate-sensitive analysis. Laver DR, et al. **J Membr Biol** 1997 Feb 1;155(3):263-74

Inhibition of p42 and p44 mitogen-activated protein kinase activity by PD98059 does not suppress nerve growth factor-induced survival of sympathetic neurones. Virdee K, et al. **J Neurochem** 1996 Nov;67(5):1801-5

Pharmacological profile of SB 203580, a selective inhibitor of cytokine suppressive binding protein/p38 kinase, in animal models of arthritis, bone resorption, endotoxin shock and immune function. Badger AM, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1453-61

Differential inhibition of mesangial MAP kinase cascade by cyclic nucleotides. Haneda M, et al. **Kidney Int** 1996 Aug; 50(2):384-91

A highly specific inhibitor of human p38 MAP kinase binds in the ATP pocket. Tong L, et al. **Nat Struct Biol** 1997 Apr;4(4):311-6

Autophosphorylation as a possible mechanism of calcium/calmodulin-dependent protein kinase II inhibition during ischemia. Zalewska T, et al. **Neurochem Int** 1996 Feb;28(2):175-81

Bilirubin has widespread inhibitory effects on protein phosphorylation. Hansen TW, et al. **Pediatr Res** 1996 Jun; 39(6):1072-7

Targeted disruption of the MKK4 gene causes embryonic death, inhibition of c-Jun NH2-terminal kinase activation, and defects in AP-1 transcriptional activity. Yang D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3004-9

BIOSYNTHESIS

Extracellular signal-regulated kinase and c-Jun NH2-terminal kinase activities are continuously and differentially increased in aorta of hypertensive rats. Kim S, et al. **Biochem Biophys Res Commun** 1997 Jul 9; 236(1):199-204

Calmodulin kinase IV: expression and function during rat brain development. Krebs J, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):217-22

Isolation and comparison of rat cDNAs encoding Ca2+/calmodulin-dependent protein kinase I isoforms. Yokokura H, et al. **Biochim Biophys Acta** 1997 Mar 7; 1338(1):8-12

Overexpressed tau protein in cultured cells is phosphorylated without formation of PHF: implication of phosphoprotein phosphatase involvement. Baum L, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):1-17

Elevated levels of ERK2 in human breast carcinoma MCF-7 cells transfected with protein kinase C alpha. Gupta AK, et al. **Cell Prolif** 1996 Dec;29(12):655-63

Induction of the primary dorsalizing center in Xenopus by the Wnt/GSK/beta-catenin signaling pathway, but not by Vg1, Activin or Noggin. Fagotto F, et al. **Development** 1997 Jan;124(2):453-60

Increased mitogen-activated protein kinase expression and activity in white adipose tissue of ventromedial hypothalamus-lesioned rats. Combettes-Souverain M, et al. **Diabetologia** 1997 May;40(5):533-40

Control of rat preadipocyte adipose conversion by ovarian status: regional specificity and possible involvement of the mitogen-activated protein kinase-dependent and c-fos signaling pathways. Lacasa D, et al. **Endocrinology** 1997 Jul;138(7):2729-34

Insulinoma cells contain an isoform of Ca2+/calmodulin-dependent protein kinase II delta associated with insulin secretion vesicles. Möhlig M, et al. **Endocrinology** 1997 Jun;138(6):2577-84

gp160 of HIV or anti-CD4 monoclonal antibody ligation of CD4 induces inhibition of JNK and ERK-2 activities in human peripheral CD4+ T lymphocytes. Jabado N, et al. **Eur J Immunol** 1997 Feb;27(2):397-404

Localization of CAM II kinase-alpha, GAD, GluR2 and GABA(A) receptor subunit mRNAs in the human entorhinal cortex. Longson D, et al. **Eur J Neurosci** 1997 Apr;9(4):662-75

Stimulus-dependent, reciprocal up- and downregulation of glutamic acid decarboxylase and Ca2+/calmodulin-dependent protein kinase II gene expression in rat cerebral cortex. Liang F, et al. **Exp Brain Res** 1996 Jul;110(2):163-74

Overexpression of calcium/calmodulin-dependent protein kinase II in insulinoma cells by use of a retroviral vector. Möhlig M, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:71-3

A truncated isoform of Ca2+/calmodulin-dependent protein kinase II expressed in human islets of Langerhans may result from trans-splicing. Breen MA, et al. **FEBS Lett** 1997 Jun 16;409(3):375-9

Singlet oxygen mediates the activation of JNK by UVA radiation in human skin fibroblasts. Klotz LO, et al. **FEBS Lett** 1997 May 26;408(3):289-91

Cellular expression of MAP 2 kinase in rat brain. Jacobowitz DM, et al. **Histochem Cell Biol** 1996 Sep;106(3):303-10

Adrenocorticotropin induction of stress-activated protein kinase in the adrenal cortex in vivo. Watanabe G, et al. **J Biol Chem** 1997 Aug 8;272(32):20063-9

Interleukin-1beta induction of mitogen-activated protein kinases in human mesangial cells. Role of oxidation. Wilmer WA, et al. **J Biol Chem** 1997 Apr 18;272(16):10877-81

Signal transduction abnormalities in cancer mitogen-activated protein kinase regulation is altered in breast cancer [editorial; comment] Johnson GL. **J Clin Invest** 1997 Apr 1;99(7):1463-4. Comment on: J Clin Invest 1997 Apr 1;99(7):1478-83.

Hyperexpression of mitogen-activated protein kinase in human breast cancer [see comments] Sivaraman VS, et al. **J Clin Invest** 1997 Apr 1;99(7):1478-83. Comment in: J Clin Invest 1997 Apr 1;99(7):1463-4.

Extracellular simian virus 40 induces an ERK/MAP kinase-independent signalling pathway that activates primary response genes and promotes virus entry. Dangoria NS, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2173-82

CD16 cross-linking induces both secretory and extracellular signal-regulated kinase (ERK)-dependent cytosolic phospholipase A2 (PLA2) activity in human natural killer

cells: involvement of ERK, but not PLA2, in CD16-triggered granule exocytosis. Milella M, et al. **J Immunol** 1997 Apr 1;158(7):3148-54

Overexpression of Ca2+/calmodulin-dependent protein kinase II in PC12 cells alters cell growth, morphology, and nerve growth factor-induced differentiation. Massé T, et al. **J Neurosci** 1997 Feb 1;17(3):924-31

Hypertonic saline activates protein tyrosine kinases and mitogen-activated protein kinase p38 in T-cells. Junger WG, et al. **J Trauma** 1997 Mar;42(3):437-43; discussion 443-5

Isolation of a cDNA encoding the rat MAP-kinase homolog of human p63mapk. García JI, et al. **Mamm Genome** 1996 Nov;7(11):810-4

Stress-activated protein kinase pathway in cell cycle control of fission yeast. Shiozaki K, et al. **Methods Enzymol** 1997; 283:506-20

Ca2+/calmodulin-dependent protein kinase II in septally kindled rat brains: changes in protein level, activity and subcellular distribution in hippocampus and cerebral cortex. Yamagata Y, et al. **Neurosci Lett** 1996 Jun 21;211(2):109-12

The 3'-untranslated region of CaMKII alpha is a cis-acting signal for the localization and translation of mRNA in dendrites. Mayford M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13250-5

Expression, purification, and characterization of an activated cytokine-suppressive anti-inflammatory drug-binding protein 2 (CSBP2) kinase from baculovirus-infected insect cells. Cai XY, et al. **Protein Expr Purif** 1997 Jul; 10(2):263-74

BLOOD

Activation of p38 in stimulated human neutrophils: phosphorylation of the oxidase component p47phox by p38 and ERK but not by JNK. El Benna J, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):395-400

p38 mitogen-activated protein kinase phosphorylates cytosolic phospholipase A2 (cPLA2) in thrombin-stimulated platelets. Evidence that proline-directed phosphorylation is not required for mobilization of arachidonic acid by cPLA2. Kramer RM, et al. **J Biol Chem** 1996 Nov 1;271(44):27723-9

CHEMISTRY

Structural analysis of the MAP kinase ERK2 and studies of MAP kinase regulatory pathways. Cobb MH, et al. **Adv Pharmacol** 1996;36:49-65 (53 ref.)

Involvement of a common 10-amino-acid segment in the cytoplasmic region of CD40 but different MAP kinases in different CD40-mediated responses. Hara T, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):187-92

The primary structure of p38 gamma: a new member of p38 group of MAP kinases. Li Z, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):334-40

Structure and regulation of calcium/calmodulin-dependent protein kinases II and IV. Soderling TR. **Biochim Biophys Acta** 1996 Oct 17;1297(2):131-8 (65 ref.)

Identification of novel human tumor cell-specific CaMK-II variants. Tombes RM, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):281-92

Isolation and comparison of rat cDNAs encoding Ca2+/calmodulin-dependent protein kinase I isoforms. Yokokura H, et al. **Biochim Biophys Acta** 1997 Mar 7; 1338(1):8-12

Activation mechanism of the MAP kinase ERK2 by dual phosphorylation. Canagarajah BJ, et al. **Cell** 1997 Sep 5; 90(5):859-69

Phosphoregulatory tyrosine of Xenopus mitogen-activated protein kinase is out of the reach of the enzyme catalytic center after autophosphorylation. Biochemical evidence for conformational changes upon phosphorylation. Tokmakov AA, et al. **Eur J Biochem** 1996 Oct 15;241(2):322-9

Identification of a protein kinase from Dictyostelium with homology to the novel catalytic domain of myosin heavy chain kinase A. Clancy CE, et al. **J Biol Chem** 1997 May 2;272(18):11812-5

Dictyostelium myosin heavy chain kinase A subdomains. Coiled-coil and wd repeat roles in oligomerization and substrate targeting. Kolman MF, et al. **J Biol Chem** 1997 Jul 4;272(27):16904-10

Novel Ca2+/calmodulin-dependent protein kinase II gamma-subunit variants expressed in vascular smooth muscle, brain, and cardiomyocytes. Singer HA, et al. **J Biol Chem** 1997 Apr 4;272(14):9393-400

Crystal structure of p38 mitogen-activated protein kinase. Wilson KP, et al. **J Biol Chem** 1996 Nov 1; 271(44):27696-700

Isolation of a cDNA encoding the rat MAP-kinase homolog of human p63mapk. García JI, et al. **Mamm Genome** 1996 Nov;7(11):810-4

Camguk, Lin-2, and CASK: novel membrane-associated guanylate kinase homologs that also contain CaM kinase domains. Dimitratos SD, et al. **Mech Dev** 1997 Apr; 63(1):127-30

Immunodetection of activated mitogen-activated protein kinase in vascular tissues. Yau L, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):59-66

A highly specific inhibitor of human p38 MAP kinase binds in the ATP pocket. Tong L, et al. **Nat Struct Biol** 1997 Apr;4(4):311-6

Salicylic acid activates a 48-kD MAP kinase in tobacco. Zhang S, et al. **Plant Cell** 1997 May;9(5):809-24

Identification of a new class of protein kinases represented by eukaryotic elongation factor-2 kinase. Ryazanov AG, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4884-9

Identification by mass spectrometry of the phosphorylated residue responsible for activation of the catalytic domain of myosin I heavy chain kinase, a member of the PAK/STE20 family. Szczepanowska J, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8503-8

The structure of mitogen-activated protein kinase p38 at 2.1-A resolution. Wang Z, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2327-32

Crystallization and preliminary crystallographic analysis of recombinant human P38 MAP kinase. Pav S, et al. **Protein Sci** 1997 Jan;6(1):242-5

DRUG EFFECTS

The effects of IL-1 on mitogen-activated protein kinases in rabbit articular chondrocytes. Scherle PA, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):573-7

The effect of prolactin on casein kinase II, MAP kinase and PKC in rabbit mammary cells and Nb2 rat lymphoid cells. Mitev V, et al. **Biochem Pharmacol** 1996 Dec 13; 52(11):1719-27

The activation of calcium/calmodulin-dependent protein kinase II after glutamate or potassium stimulation in hippocampal slices. Tan SE, et al. **Brain Res Bull** 1997; 43(3):269-73

Adriamycin activates c-jun N-terminal kinase in human leukemia cells: a relevance to apoptosis. Yu R, et al. **Cancer Lett** 1996 Oct 1;107(1):73-81

Activation of mitogen-activated protein kinases by green tea polyphenols: potential signaling pathways in the regulation of antioxidant-responsive element-mediated phase II enzyme gene expression. Yu R, et al. **Carcinogenesis** 1997 Feb;18(2):451-6

R-Ras can activate the phosphoinositide 3-kinase but not the MAP kinase arm of the Ras effector pathways [published erratum appears in Curr Biol 1997 Mar 1;7(3):197] Marte BM, et al. **Curr Biol** 1997 Jan 1;7(1):63-70

Effect of hyperphenylalaninemia chemically induced on in vitro incorporation of 32P into cytoskeletal proteins from cerebral cortex of developing rats. de Freitas MS, et al. **Exp Neurol** 1997 Feb;143(2):188-95

Pervanadate elicits proliferation and mediates activation of mitogen-activated protein (MAP) kinase in the nucleus. Krady MM, et al. **FEBS Lett** 1997 Aug 4;412(3):420-4

Effects of phorbol ester on phospholipase D and mitogen-activated protein kinase activities in T-lymphocyte cell lines. Bradshaw CD, et al. **Immunol Lett** 1996 Nov;53(2-3):69-76

A novel glutamate-mediated inhibitory mechanism linked with Ca2+/calmodulin-dependent protein kinase II in identified Euhadra neurons. Watanabe K, et al. **J Neurobiol** 1997 Feb;32(2):139-49

Postsynaptic inhibitors of calcium/calmodulin-dependent protein kinase type II block induction but not maintenance of pairing-induced long-term potentiation. Otmakhov N, et al. **J Neurosci** 1997 Jul 15;17(14):5357-65

2-Methoxyestradiol, an endogenous estrogen metabolite, induces apoptosis in endothelial cells and inhibits angiogenesis: possible role for stress-activated protein kinase signaling pathway and Fas expression. Yue TL, et al. **Mol Pharmacol** 1997 Jun;51(6):951-62

GENETICS

Identification of MAPKAPK homolog (MAPKAPK-4) as a myosin II regulatory light-chain kinase in sea urchin egg extracts. Komatsu S, et al. **Arch Biochem Biophys** 1997 Jul 1;343(1):55-62

Human islets of Langerhans express multiple isoforms of calcium/calmodulin-dependent protein kinase II. Breen MA, et al. **Biochem Biophys Res Commun** 1997 Jul 18; 236(2):473-8

Treatment of vascular smooth muscle cells with antisense phosphorothioate oligodeoxynucleotides directed against p42 and p44 mitogen-activated protein kinases abolishes DNA synthesis in response to platelet-derived growth factor. Robinson CJ, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):123-7

Localization of mRNA for Ca2+/calmodulin-dependent protein kinase I in the brain of developing and mature rats. Sawamura Y, et al. **Brain Res** 1996 Jan 15;706(2):259-66

Fusion of ETV6 to MDS1/EVI1 as a result of t(3;12)(q26;p13) in myeloproliferative disorders. Peeters P, et al. **Cancer Res** 1997 Feb 15;57(4):564-9

CaMKII function in the nervous system explored from a genetic perspective. Mayford M, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:219-24 (25 ref.)

Activation of the novel stress-activated protein kinase SAPK4 by cytokines and cellular stresses is mediated by SKK3 (MKK6); comparison of its substrate specificity with that of other SAP kinases. Goedert M, et al. **EMBO J** 1997 Jun;16(12):3563-71

The CDK-activating kinase CAK1 can dosage suppress sporulation defects of smk1 MAP kinase mutants and is required for spore wall morphogenesis in Saccharomyces cerevisiae. Wagner M, et al. **EMBO J** 1997 Mar 17; 16(6):1305-17

Redox-mediated regulation of p21(waf1/cip1) expression involves a post-transcriptional mechanism and activation of the mitogen-activated protein kinase pathway. Esposito F, et al. **Eur J Biochem** 1997 May 1;245(3):730-7

Retroviral mediated gene transfer of Flt3 ligand enhances proliferation and MAP kinase activity of AML5 cells. Braun SE, et al. **Exp Hematol** 1997 Jan;25(1):51-6

A truncated isoform of Ca2+/calmodulin-dependent protein kinase II expressed in human islets of Langerhans may result from trans-splicing. Breen MA, et al. **FEBS Lett** 1997 Jun 16;409(3):375-9

Gene of rat Ca2+/calmodulin-dependent protein kinase II alpha isoform -- its cloning and whole structure. Nishioka N, et al. **FEBS Lett** 1996 Nov 4;396(2-3):333-6

A MAP kinase homologue from the human malaria parasite, Plasmodium falciparum. Doerig CM, et al. **Gene** 1996 Oct 24;177(1-2):1-6

Conjugation, meiosis, and the osmotic stress response are regulated by Spc1 kinase through Atf1 transcription factor in fission yeast. Shiozaki K, et al. **Genes Dev** 1996 Sep 15; 10(18):2276-88

MAP kinase and cAMP signaling regulate infection structure formation and pathogenic growth in the rice blast fungus Magnaporthe grisea. Xu JR, et al. **Genes Dev** 1996 Nov 1;10(21):2696-706

The heterochromatic rolled gene of Drosophila melanogaster is extensively polytenized and transcriptionally active in the salivary gland chromocenter. Berghella L, et al. **Genetics** 1996 Sep;144(1):117-25

The mitogen-activated protein kinase homolog HOG1 gene controls glycerol accumulation in the pathogenic fungus Candida albicans. San José C, et al. **J Bacteriol** 1996 Oct; 178(19):5850-2

Molecular cloning of a novel protein containing the association domain of calmodulin-dependent protein kinase II. Sugai R, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):773-9

Activated alleles of yeast SLN1 increase Mcm1-dependent reporter gene expression and diminish signaling through the Hog1 osmosensing pathway. Fassler JS, et al. **J Biol Chem** 1997 May 16;272(20):13365-71

Distinct regulation of osmoprotective genes in yeast and mammals. Aldose reductase osmotic response element is induced independent of p38 and stress-activated protein kinase/Jun N-terminal kinase in rabbit kidney cells. Kültz D, et al. **J Biol Chem** 1997 May 16;272(20):13165-70

Dependence of activated Galpha12-induced G1 to S phase cell cycle progression on both Ras/mitogen-activated protein kinase and Ras/Rac1/Jun N-terminal kinase cascades in NIH3T3 fibroblasts. Mitsui H, et al. **J Biol Chem** 1997 Feb 21;272(8):4904-10

The Jun kinase/stress-activated protein kinase pathway functions to regulate DNA repair and inhibition of the pathway sensitizes tumor cells to cisplatin. Potapova O, et al. **J Biol Chem** 1997 May 30;272(22):14041-4

The mouse extracellular signal-regulated kinase 2 gene. Gene structure and characterization of the promoter. Sugiura N, et al. **J Biol Chem** 1997 Aug 22;272(34):21575-81

Genetic evidence for a tyrosine kinase cascade preceding the mitogen-activated protein kinase cascade in vertebrate G protein signaling. Wan Y, et al. **J Biol Chem** 1997 Jul 4;272(27):17209-15

Molecular cloning and characterization of a novel p38 mitogen-activated protein kinase. Wang XS, et al. **J Biol Chem** 1997 Sep 19;272(38):23668-74

Overexpression of protein kinase FA/GSK-3 alpha (a proline-directed protein kinase) correlates with human hepatoma dedifferentiation/progression. Yang SD, et al. **J Cell Biochem** 1996 May;61(2):238-45

A conserved motif at the carboxy terminus of MAP kinases [letter] Wilson C, et al. **J Mol Evol** 1997 Jun;44(6):683-5

Retinoic acid stimulates alpha-CAMKII gene expression in PC12 cells at a distinct transcription initiation site. Chen J, et al. **J Neurosci** 1996 Sep 15;16(18):5704-14

Calcium/calmodulin-dependent protein kinase II and arrestin phosphorylation in Limulus eyes. Calman BG, et al. **J Photochem Photobiol B** 1996 Aug;35(1-2):33-44

Chromosomal localization of the mouse genes encoding the ERK1 and ERK2 isoforms of MAP kinases. Saba-el-Leil MK, et al. **Mamm Genome** 1997 Feb;8(2):141-2

A novel MAP kinase phosphatase is localised in the branchial arch region and tail tip of Xenopus embryos and is inducible by retinoic acid. Mason C, et al. **Mech Dev** 1996 Apr; 55(2):133-44

Stage-specific expression of a Plasmodium falciparum protein related to the eukaryotic mitogen-activated protein kinases. Lin DT, et al. **Mol Biochem Parasitol** 1996 Jun; 78(1-2):67-77

The osmoregulatory pathway represses mating pathway activity in Saccharomyces cerevisiae: isolation of a FUS3 mutant that is insensitive to the repression mechanism. Hall JP, et al. **Mol Cell Biol** 1996 Dec;16(12):6715-23

Two human cDNAs, including a homolog of Arabidopsis FUS6 (COP11), suppress G-protein- and mitogen-activated protein kinase-mediated signal transduction in yeast and mammalian cells. Spain BH, et al. **Mol Cell Biol** 1996 Dec;16(12):6698-706

The fission yeast pmk1+ gene encodes a novel mitogen-activated protein kinase homolog which regulates cell integrity and functions coordinately with the protein kinase C pathway. Toda T, et al. **Mol Cell Biol** 1996 Dec; 16(12):6752-64

Deficient plasticity in the primary visual cortex of alpha-calcium/calmodulin-dependent protein kinase II mutant mice. Gordon JA, et al. **Neuron** 1996 Sep;

17(3):491-9

Identification of four splice variants of the mouse stress-activated protein kinase JNK/SAPK alpha-isoform. Casanova E, et al. **Neuroreport** 1996 May 17;7(7):1320-4

Primary structure, expression and chromosomal locus of a human homolog of rat ERK3. Meloche S, et al. **Oncogene** 1996 Oct 3;13(7):1575-9

Molecular cloning of the epidermal growth factor-stimulated protein kinase p56 KKIAMRE. Taglienti CA, et al. **Oncogene** 1996 Dec 19;13(12):2563-74

Absence of relationships between selected human factors and natural infectivity of Plasmodium falciparum to mosquitoes in an area of high transmission. Haji H, et al. **Parasitology** 1996 Nov;113 (Pt 5):425-31

Stress signaling in plants: a mitogen-activated protein kinase pathway is activated by cold and drought. Jonak C, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11274-9

Age-dependent decrease of synaptic plasticity in the neocortex of alphaCaMKII mutant mice. Kirkwood A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3380-3

Rejection antigens in chemically induced tumors [see comments] Klein G. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):5991-2 (14 ref.). Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6375-9.

Identification of transferred DNA insertions within Arabidopsis genes involved in signal transduction and ion transport. Krysan PJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8145-50

Developmental signal transduction pathways uncovered by genetic suppressors. Shaulsky G, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15260-5

Regulation and properties of the rat Ca2+/calmodulin-dependent protein kinase IV gene and its protein products. Means AR, et al. **Recent Prog Horm Res** 1997;52:389-406; discussion 406-7 (57 ref.)

Sequence analysis of a 37.6 kbp cosmid clone from the right arm of Saccharomyces cerevisiae chromosome XII, carrying YAP3, HOG1, SNR6, tRNA-Arg3 and 23 new open reading frames, among which several homologies to proteins involved in cell division control and to mammalian growth factors and other animal proteins are found. Verhasselt P, et al. **Yeast** 1997 Mar 15;13(3):241-50

IMMUNOLOGY

Preferential labeling of Alzheimer neurofibrillary tangles with antisera for tau protein kinase (TPK) I/glycogen synthase kinase-3 beta and cyclin-dependent kinase 5, a component of TPK II. Yamaguchi H, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):232-41

Diminished activation of the MAP kinase pathway in CD3-stimulated T lymphocytes from old mice. Gorgas G, et al. **Mech Ageing Dev** 1997 Mar;94(1-3):71-83

Mutated mitogen-activated protein kinase: a tumor rejection antigen of mouse sarcoma [see comments] Ikeda H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6375-9. Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(12):5991-2.

ISOLATION & PURIFICATION

Identification and purification of Ca2+/calmodulin-dependent protein kinase V from human gastric carcinoma. Ohta H, et al. **Biochim Biophys Acta** 1996 Dec 16;1317(3):175-82

Purification and cDNA cloning of SAPKK3, the major activator of RK/p38 in stress- and cytokine-stimulated monocytes and epithelial cells. Cuenda A, et al. **EMBO J** 1996 Aug 15;15(16):4156-64

Purification and characterization of active fragment of Ca2+/calmodulin-dependent protein kinase II from the post-synaptic density in the rat forebrain. Yoshimura Y, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):268-73

Regulation of Ca2+/calmodulin-dependent protein kinase from Trypanosoma cruzi. Ogueta S, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):171-83

Expression, purification, and characterization of an activated cytokine-suppressive anti-inflammatory drug-binding protein 2 (CSBP2) kinase from baculovirus-infected insect cells. Cai XY, et al. **Protein Expr Purif** 1997 Jul; 10(2):263-74

METABOLISM

Halogenated benzimidazole inhibitors of phosphorylation, in vitro and in vivo, of the surface acidic proteins of the yeast ribosomal 60S subunit by endogenous protein kinases CK-II and PK60S. Szyszka R, et al. **Acta Biochim Pol** 1996;43(2):389-96

Structural analysis of the MAP kinase ERK2 and studies of MAP kinase regulatory pathways. Cobb MH, et al. **Adv Pharmacol** 1996;36:49-65 (53 ref.)

Multiple mitogen-activated protein kinases are regulated by hyperosmolality in mouse IMCD cells. Berl T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F305-11

N-acetyl cysteine ameliorates ischemic renal failure. DiMari J, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F292-8

Activation of MAP kinases in airway smooth muscle. Gerthoffer WT, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L244-52

Interleukin-1 beta activates c-jun NH2-terminal kinase subgroup of mitogen-activated protein kinases in mesangial cells. Guan Z, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):F634-41

MEK1 is required for PDGF-induced ERK activation and DNA synthesis in tracheal myocytes. Karpova AY, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L558-65

G alpha(i-2) mediates renal LLC-PK1 growth by a Raf-independent activation of p42/p44 MAP kinase. Kinane TB, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):F273-82

Parietal cell MAP kinases: multiple activation pathways. Nakamura K, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G640-9

L-glutamine stimulates intestinal cell proliferation and activates mitogen-activated protein kinases. Rhoads JM, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G943-53

Bombesin-stimulated ceramide production and MAP kinase activation in rabbit rectosigmoid smooth muscle cells. Sbrissa D, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1615-25

Sustained ERK-2 activation in rat glomerular mesangial cells: differential regulation by protein phosphatases. Schramek H, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F423-32

Differential long-term regulation of MEK and of p42 MAPK in rat glomerular mesangial cells. Schramek H, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C40-8

Differential expression and activation of MAP kinases in dedifferentiated MDCK-focus cells. Schramek H, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C383-91

Activation of ERK and JNK1 MAP kinases in cultured lung tissue. Shapiro P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L459-67

Sphingosine prevents diacylglycerol signaling to mitogen-activated protein kinase in airway smooth muscle. Tolan D, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C928-36

NaCl but not urea activates p38 and jun kinase in mIMCD3 murine inner medullary cells. Zhang Z, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1234-8

Inhibition of ERK activation attenuates endothelin-stimulated airway smooth muscle cell proliferation. Whelchel A, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):589-96

ERK activation and cellular proliferation in response to muscarinic acetylcholine receptor agonists. Wang P, et al. **Ann N Y Acad Sci** 1997 May 30;812:182-3

The role of the hsp90-based chaperone system in signal transduction by nuclear receptors and receptors signaling via MAP kinase. Pratt WB. **Annu Rev Pharmacol Toxicol** 1997;37:297-326 (183 ref.)

Divergent effects of ruthenium red and ryanodine on Ca2+/calmodulin-dependent phosphorylation of the Ca2+ release channel (ryanodine receptor) in cardiac sarcoplasmic reticulum. Netticadan T, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):368-76

Low-affinity thromboxane receptor mediates proliferation in cultured vascular smooth muscle cells of rats. Ko FN. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1274-82

Oxidized LDL stimulates mitogen-activated protein kinases in smooth muscle cells and macrophages. Kusuhara M, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):141-8

Evidence for the involvement of LCK and MAP kinase (ERK-1) in the signal transduction mechanism of interleukin-15. Adunyah SE, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):754-8

The stress-activated c-Jun protein kinase (JNK) is stimulated by lipoxygenase pathway product 12-HETE in RIN m5F cells. Bleich D, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):448-51

Human islets of Langerhans express multiple isoforms of calcium/calmodulin-dependent protein kinase II. Breen MA, et al. **Biochem Biophys Res Commun** 1997 Jul 18; 236(2):473-8

Induction of MAPK phosphorylation by prosaposin and prosaptide in PC12 cells. Campana WM, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):706-12

Activation of extracellular signal-regulated kinases 1 and 2 (ERK1 and ERK2) by FGF-2 and PDGF-BB in normal human osteoblastic and bone marrow stromal cells: differences in mobility and in-gel renaturation of ERK1 in human, rat, and mouse osteoblastic cells. Chaudhary LR, et al. **Biochem Biophys Res Commun** 1997 Sep 8; 238(1):134-9

Extracellular matrix is required for MAP kinase activation and proliferation of rat glomerular epithelial cells. Cybulsky AV, et al. **Biochem Biophys Res Commun** 1997 Feb 3; 231(1):160-6

ERK and p38 MAP kinase pathways are mediators of intestinal epithelial wound-induced signal transduction. Dieckgraefe BK, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):389-94

Rapid activation of MAP kinase by estrogen in the bone cell line. Endoh H, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):99-102

Stress-activated protein kinase activation is the earliest direct correlate to the induction of secretagogue-induced pancreatitis in rats. Grady T, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):1-7

A specific association of ERK3 with B-Raf in rat hippocampus. Kim SH, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):577-81

Gastric inhibitory polypeptide activates MAP kinase through the wortmannin-sensitive and -insensitive pathways. Kubota A, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):171-5

Novel homologues of CSBP/p38 MAP kinase: activation, substrate specificity and sensitivity to inhibition by pyridinyl imidazoles. Kumar S, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):533-8

The primary structure of p38 gamma: a new member of p38 group of MAP kinases. Li Z, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):334-40

Activation of c-Jun N-terminal kinase by human granulocyte macrophage-colony stimulating factor in BA/F3 cells. Liu R, et al. **Biochem Biophys Res Commun** 1997 May 29; 234(3):611-5

Requirement of phosphatidylinositol-3 kinase for activation of JNK/SAPKs by PDGF. Lopez-Ilasaca M, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):273-7

Adenosine 3',5'-cyclic monophosphate mimics the inhibitory effect of high glucose on MAP kinase phosphorylation in rat mesangial cells. Matsuo H, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):746-54

Phosphorylation of cardiac Na+-K+ ATPase by Ca2+/calmodulin dependent protein kinase. Netticadan T, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):544-8

Prolactin stimulates mitogen-activated protein kinase in human leiomyoma cells. Nohara A, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):473-7

Stretch-induced MAP kinase activation in cardiomyocytes of angiotensinogen-deficient mice. Nyui N, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):36-41

The proto-oncogene Crk-II enhances apoptosis by a Ras-dependent, Raf-1/MAP kinase-independent pathway. Parrizas M, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):616-20

MAP kinase activation by cyclosporine A. Paslaru L, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):599-603

p38 mitogen activated protein kinase regulates endothelial VCAM-1 expression at the post-transcriptional level. Pietersma A, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):44-8

Activation of JNK/SAPK and ERK by mechanical strain in vascular smooth muscle cells depends on extracellular matrix composition. Reusch HP, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):239-44

Interferon-gamma and transforming growth factor-beta modulate the activation of mitogen-activated protein kinases and tumor necrosis factor-alpha production induced by Fc gamma-receptor stimulation in murine macrophages. Rose DM, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):256-60

Elevated amyloid beta protein(1-40) level induces CREB phosphorylation at serine-133 via p44/42 MAP kinase (Erk1/2)-dependent pathway in rat pheochromocytoma PC12 cells. Sato N, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):637-42

The effects of IL-1 on mitogen-activated protein kinases in rabbit articular chondrocytes. Scherle PA, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):573-7

Wortmannin-sensitive activation of p70S6-kinase and MAP-kinase by the G protein-coupled receptor, G/CCKB. Seva C, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):202-6

The c-Mos proto-oncogene product stimulates c-Jun transcriptional activity by a MAP kinase-dependent mechanism. Sever R, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):259-66

Interleukin-18 induces activation and association of p56(lck) and MAPK in a murine TH1 clone. Tsuji-Takayama K, et al. **Biochem Biophys Res Commun** 1997 Aug 8; 237(1):126-30

Activation of mitogen-activated protein kinase by the carcinogenic mycotoxin fumonisin B1. Wattenberg EV, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):622-7

Selective interaction of protein kinase FA/glycogen synthase kinase-3alpha with membrane phospholipids. Yu JS, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):331-5

Tyrosine phosphorylation of p38 but not extracellular signal-regulated kinase in normal human neutrophils stimulated by tumor necrosis factor: comparative study with granulocyte-macrophage colony-stimulating factor. Yuo A, et al. **Biochem Biophys Res Commun** 1997 Jun 9; 235(1):42-6

Phosphorylation and activation of smooth muscle myosin light chain kinase by MAP kinase and cyclin-dependent kinase-1. Morrison DL, et al. **Biochem Cell Biol** 1996; 74(4):549-57

Trypsin stimulates proteinase-activated receptor-2-dependent and -independent activation of mitogen-activated protein kinases. Belham CM, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):939-46

Differential regulation of extracellular signal-regulated protein kinase 1 and Jun N-terminal kinase 1 by Ca2+ and protein kinase C in endothelin-stimulated Rat-1 cells. Cadwallader K, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):795-804

Kinetic and biochemical correlation between sustained p44ERK1 (44 kDa extracellular signal-regulated kinase 1) activation and lysophosphatidic acid-stimulated DNA synthesis in Rat-1 cells. Cook SJ, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):237-45

cAMP suppresses p21ras and Raf-1 responses but not the Erk-1 response to granulocyte-colony-stimulating factor: possible Raf-1-independent activation of Erk-1. Csar XF,

et al. **Biochem J** 1997 Feb 15;322 (Pt 1):79–87

Ca2+ and protein kinase C–dependent mechanisms involved in gastrin–induced Shc/Grb2 complex formation and P44–mitogen–activated protein kinase activation. Daulhac L, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):383–9

Effect of lipopolysaccharide on mitogen–activated protein kinases and cytosolic phospholipase A2. Fouda SI, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):815–22

Analysis of mitogen–activated protein kinase activation by naturally occurring splice variants of TrkC, the receptor for neurotrophin–3. Gunn–Moore FJ, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):193–8

Activation of mitogen–activated protein kinase and p70S6 kinase is not correlated with cerebellar granule cell survival. Gunn–Moore FJ, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):365–9

Cytosolic phospholipase A2 and its mode of activation in human neutrophils by opsonized zymosan. Correlation between 42/44 kDa mitogen–activated protein kinase, cytosolic phospholipase A2 and NADPH oxidase. Hazan I, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):867–76

Differences in the kinetics of activation of protein kinases and extracellular signal–related protein kinase 1 in colony–stimulating factor 1–stimulated and lipopolysaccharide–stimulated macrophages. Jaworowski A, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):1011–6

Insulin regulation of mitogen–activated protein kinase kinase (MEK), mitogen–activated protein kinase and casein kinase in the cell nucleus: a possible role in the regulation of gene expression. Kim SJ, et al. **Biochem J** 1997 May 1;323 (Pt 3):621–7

Chemoattractants induce tyrosine phosphorylation of ERK2 in Dictyostelium discoideum by diverse signalling pathways. Kosaka C, et al. **Biochem J** 1997 May 15;324 (Pt 1):347–52

Growth hormone and phorbol esters require specific protein kinase C isoforms to activate mitogen–activated protein kinases in 3T3–F442A cells. MacKenzie S, et al. **Biochem J** 1997 May 15;324 (Pt 1):159–65

Mitogen–activated protein kinase translocates to the nucleus during ischaemia and is activated during reperfusion. Mizukami Y, et al. **Biochem J** 1997 May 1;323 (Pt 3):785–90

Phosphorylation and activation of p42 and p44 mitogen–activated protein kinase are required for the P2 purinoceptor stimulation of endothelial prostacyclin production. Patel V, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):221–6

Efficacy of agonist–stimulated MEK activation determines the susceptibility of mitogen–activated protein (MAP) kinase to inhibition in rat aortic smooth muscle cells. Plevin R, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):657–63

Activation of mitogen–activated protein kinase couples neurotensin receptor stimulation to induction of the primary response gene Krox–24. Poinot–Chazel C, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):145–51

Calcium–dependent activation of Erk–1 and Erk–2 after hypo–osmotic astrocyte swelling. Schliess F, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):167–71

Phosphorylation of tau by glycogen synthase kinase 3beta affects the ability of tau to promote microtubule self–assembly. Utton MA, et al. **Biochem J** 1997 May 1; 323 (Pt 3):741–7

Diacylglycerol generated by exogenous phospholipase C activates the mitogen–activated protein kinase pathway independent of Ras– and phorbol ester–sensitive protein kinase C: dependence on protein kinase C–zeta. van Dijk M, et al. **Biochem J** 1997 May 1;323 (Pt 3):693–9

Platelet–derived growth factor activation of mitogen–activated protein kinase depends on the sequential activation of phosphatidylcholine–specific phospholipase C, protein kinase C–zeta and Raf–1. van Dijk MC, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):303–7

Involvement of Ca2+/calmodulin–dependent protein kinase II in the activation of carnitine palmitoyltransferase I by okadaic acid in rat hepatocytes. Velasco G, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):211–6

Effects of Ara–C on neutral sphingomyelinase and mitogen– and stress–activated protein kinases in T–lymphocyte cell lines. Bradshaw CD, et al. **Biochem Mol Biol Int** 1996 Nov; 40(4):709–19

Expression of mitogen–inducible cyclooxygenase induced by lipopolysaccharide: mediation through both mitogen–activated protein kinase and NF–kappaB signaling pathways in macrophages. Hwang D, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):87–96

Differential effects of CB1 and CB2 agonists on cAMP levels and MAP kinase activation in human peripheral blood mononuclear cells. Makda AA, et al. **Biochem Soc Trans** 1997 May;25(2):217S

Regulation of initiation factor eIF–2B by GSK–3 regulated phosphorylation. Welsh GI, et al. **Biochem Soc Trans** 1997 May;25(2):191S

The regulation of TCF transcription factors by MAP kinase cascades. Yang S, et al. **Biochem Soc Trans** 1997 May; 25(2):153S

The activating dual phosphorylation of MAPK by MEK is nonprocessive. Burack WR, et al. **Biochemistry** 1997 May 20;36(20):5929–33

Ras–dependent activation of fibroblast mitogen–activated protein kinase by 5–HT1A receptor via a G protein beta gamma–subunit–initiated pathway. Garnovskaya MN, et al. **Biochemistry** 1996 Oct 29;35(43):13716–22

Kinetic mechanism for p38 MAP kinase. LoGrasso PV, et al. **Biochemistry** 1997 Aug 26;36(34):10422–7

Phosphorylation of the PCNA binding domain of the large subunit of replication factor C by Ca2+/calmodulin–dependent protein kinase II inhibits DNA synthesis. Maga G, et al. **Biochemistry** 1997 May 6;36(18):5300–10

8–Bromo–cAMP induces a proliferative response in an IL–3 dependent leukemic cell line and activates Erk 1,2 via a Shc–independent pathway. Barge RM, et al. **Biochim Biophys Acta** 1997 Feb 4;1355(2):141–6

Protein tyrosine kinase, mitogen–activated protein kinase and protein kinase C are involved in the mitogenic signaling of platelet–activating factor (PAF) in HEC–1A cells. Bonaccorsi L, et al. **Biochim Biophys Acta** 1997 Feb 4; 1355(2):155–66

Redox regulation of the mitogen–activated protein kinase pathway during lymphocyte activation. Goldstone SD, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):353–60

Structure and regulation of calcium/calmodulin–dependent protein kinases II and IV. Soderling TR. **Biochim Biophys Acta** 1996 Oct 17;1297(2):131–8 (65 ref.)

Selenium: potent stimulator of tyrosyl phosphorylation and activator of MAP kinase. Stapleton SR, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):259–69

Functional analysis of phosphorylation at serine 532 of human c–Myb by MAP kinase. Vorbrueggen G, et al. **Biol Chem** 1996 Nov;377(11):721–30

Activation of mitogen–activated protein kinases by gonadotropins and cyclic adenosine 5'–monophosphates in porcine granulosa cells. Cameron MR, et al. **Biol Reprod** 1996 Jul;55(1):111–9

Potential role of mitogen–activated protein kinase during meiosis resumption in bovine oocytes. Fissore RA, et al. **Biol Reprod** 1996 Dec;55(6):1261–70

Sperm motility development in the epididymis is associated with decreased glycogen synthase kinase–3 and protein phosphatase 1 activity. Vijayaraghavan S, et al. **Biol Reprod** 1996 Mar;54(3):709–18

Genistein analogues: effects on epidermal growth factor receptor tyrosine kinase and on stress–activated pathways. Croisy–Delcey M, et al. **Biomed Pharmacother** 1997; 51(6–7):286–94

A mechanism for synaptic frequency detection through autophosphorylation of CaM kinase II. Dosemeci A, et al. **Biophys J** 1996 Jun;70(6):2493–501

Macrophage inflammatory protein–1alpha and interferon–inducible protein 10 inhibit synergistically induced growth factor stimulation of MAP kinase activity and suppress phosphorylation of eukaryotic initiation factor 4E and 4E binding protein 1. Aronica SM, et al. **Blood** 1997 May 15;89(10):3582–95

Interleukin–6 inhibits Fas–induced apoptosis and stress–activated protein kinase activation in multiple myeloma cells. Chauhan D, et al. **Blood** 1997 Jan 1; 89(1):227–34

Activation of the stress–activated protein kinases by multiple hematopoietic growth factors with the exception of interleukin–4. Foltz IN, et al. **Blood** 1997 May 1; 89(9):3092–6

Contact between human bone marrow stromal cells and B lymphocytes enhances very late antigen–4/vascular cell adhesion molecule–1–independent tyrosine phosphorylation of focal adhesion kinase, paxillin, and ERK2 in stromal cells. Jarvis LJ, et al. **Blood** 1997 Aug 15;90(4):1626–35

Activation of JNK signaling pathway by erythropoietin, thrombopoietin, and interleukin–3. Nagata Y, et al. **Blood** 1997 Apr 15;89(8):2664–9

Activation of p38 MAP kinase pathway by erythropoietin and interleukin–3. Nagata Y, et al. **Blood** 1997 Aug 1; 90(3):929–34

Arachidonic acid mediates interleukin–1 and tumor necrosis factor–alpha–induced activation of the c–jun amino–terminal kinases in stromal cells. Rizzo MT, et al. **Blood** 1996 Nov 15;88(10):3792–800

Stimulation by the nucleotides, ATP and UTP of mitogen–activated protein kinase in EAhy 926 endothelial cells. Graham A, et al. **Br J Pharmacol** 1996 Mar; 117(6):1341–7

Stimulation by extracellular ATP and UTP of the stress–activated protein kinase cascade in rat renal mesangial cells. Huwiler A, et al. **Br J Pharmacol** 1997 Mar;120(5):807–12

Ca2+/calmodulin–dependent protein kinase II in postsynaptic densities after reversible cerebral ischemia in rats. Aronowski J, et al. **Brain Res** 1996 Feb 12; 709(1):103–10

Transient cerebral ischemia decreases calcium/calmodulin–dependent protein kinase II immunoreactivity, but not mRNA levels in the gerbil hippocampus. Babcock AM, et al. **Brain Res** 1995 Dec 24; 705(1–2):307–14

Ca2+/calmodulin–dependent protein kinase type IV in dorsal root ganglion: colocalization with peptides, axonal transport and effect of axotomy. Ji RR, et al. **Brain Res** 1996 May 20;721(1–2):167–73

The effects of behavioral tasks on the in vitro phosphorylation of intermediate filament subunits of rat hippocampus are mediated by CaMKII and PKA. Schröder N, et al. **Brain Res** 1997 Feb 28;749(2):275–82

Inhibitory avoidance learning alters the amygdala calcium/calmodulin–dependent protein kinase II activity in rats. Tan SE, et al. **Brain Res** 1997 Feb 14; 748(1–2):227–33

Increased levels of mRNA for beta– but not alpha–subunit of calmodulin kinase II following kindled seizures. Morimoto K, et al. **Brain Res Bull** 1997;43(4):375–80

Developmentally regulated in vitro phosphorylation of a 85 kDa triton–insoluble protein of the cerebral cortex of rats. de Mattos–Dutra A, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):76–82

Exclusion of the beta–subunit of type II calmodulin kinase for the wobbler spinal muscular atrophy gene. Bronstein JM, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):330–2

Activation of raf–1, MEK, and MAP kinase in prolactin responsive mammary cells. Das R, et al. **Breast Cancer Res Treat** 1996;40(2):141–9

TGFbeta regulation of mitogen–activated protein kinases in human breast cancer cells. Frey RS, et al. **Cancer Lett** 1997 Jul 15;117(1):41–50

Src tyrosine kinase mediates stimulation of Raf–1 and mitogen–activated protein kinase by the tumor promoter thapsigargin. Chao TS, et al. **Cancer Res** 1997 Aug 1; 57(15):3168–73

Involvement of extracellular signal–regulated kinase 2 and stress–activated protein kinase/Jun N–terminal kinase activation by transforming growth factor beta in the negative growth control of breast cancer cells. Frey RS, et al. **Cancer Res** 1997 Feb 15;57(4):628–33

Substance P–induced mitogenesis in human astrocytoma cells correlates with activation of the mitogen–activated protein kinase signaling pathway. Luo W, et al. **Cancer Res** 1996 Nov 1;56(21):4983–91

Differential induction of c–Jun NH2–terminal kinase and c–Abl kinase in DNA mismatch repair–proficient and –deficient cells exposed to cisplatin. Nehmé A, et al. **Cancer Res** 1997 Aug 1;57(15):3253–7

Galanin, neurotensin, and phorbol esters rapidly stimulate activation of mitogen–activated protein kinase in small cell lung cancer cells. Seufferlein T, et al. **Cancer Res** 1996 Dec 15;56(24):5758–64

Bcl–2 protein inhibits bufalin–induced apoptosis through inhibition of mitogen–activated protein kinase activation in human leukemia U937 cells. Watabe M, et al. **Cancer Res** 1997 Aug 1;57(15):3097–100

Asbestos causes stimulation of the extracellular signal–regulated kinase 1 mitogen–activated protein kinase cascade after phosphorylation of the epidermal growth factor receptor. Zanella CL, et al. **Cancer Res** 1996 Dec 1;56(23):5334–8

Control of the ERK MAP kinase cascade by Ras and Raf. Marais R, et al. **Cancer Surv** 1996;27:101–25 (125 ref.)

Effects of chemopreventive selenium compounds on Jun N–kinase activities. Adler V, et al. **Carcinogenesis** 1996 Sep; 17(9):1849–54

CREB phosphorylation and dephosphorylation: a Ca(2+)– and stimulus duration–dependent switch for hippocampal gene expression. Bito H, et al. **Cell** 1996 Dec 27; 87(7):1203–14

Activation mechanism of the MAP kinase ERK2 by dual phosphorylation. Canagarajah BJ, et al. **Cell** 1997 Sep 5; 90(5):859–69

Suppression of integrin activation: a novel function of a Ras/Raf–initiated MAP kinase pathway. Hughes PE, et al. **Cell** 1997 Feb 21;88(4):521–30

c–Jun can recruit JNK to phosphorylate dimerization partners via specific docking interactions. Kallunki T, et al. **Cell** 1996 Nov 29;87(5):929–39

A lipid–anchored Grb2–binding protein that links FGF–receptor activation to the Ras/MAPK signaling pathway. Kouhara H, et al. **Cell** 1997 May 30;89(5):693–702

Activation of the IkappaB alpha kinase complex by MEKK1, a kinase of the JNK pathway. Lee FS, et al. **Cell** 1997 Jan 24;88(2):213–22

Yeast HOG1 MAP kinase cascade is regulated by a multistep phosphorelay mechanism in the SLN1–YPD1–SSK1 "two–component" osmosensor. Posas F, et al. **Cell** 1996 Sep 20;86(6):865–75

cAMP activates MAP kinase and Elk–1 through a B–Raf– and Rap1–dependent pathway. Vossler MR, et al. **Cell** 1997 Apr 4;89(1):73–82

Daxx, a novel Fas–binding protein that activates JNK and apoptosis. Yang X, et al. **Cell** 1997 Jun 27;89(7):1067–76

Protein tyrosine kinase inhibitors act downstream of IL–1 alpha and LPS stimulated MAP–kinase phosphorylation to inhibit expression of E–selectin on human umbilical vein endothelial cells. Adamson P, et al. **Cell Adhes Commun** 1996 Apr;3(6):511–25

Calmodulin–dependent protein kinase II from bovine cardiac muscle: purification and differential activation by calcium. Kakkar R, et al. **Cell Calcium** 1996 Oct;20(4):347–53

A comparative study of the hepatic mitogen–activated protein kinase and Jun–NH2–terminal kinase pathways in the late–gestation fetal rat. Boylan JM, et al. **Cell Growth Differ** 1996 Sep;7(9):1261–9

Staurosporine resistance accompanies DNA tumor virus–induced immortalization and is independent of the expression and activities of ERK1, ERK2, cyclin A, cyclin–dependent kinase (cdk) 2, and cdk4. Chang T, et al. **Cell Growth Differ** 1996 Mar;7(3):361–72

Involvement of stress–activated protein kinase in the cellular response to 1–beta–D–arabinofuranosylcytosine and other

DNA-damaging agents. Saleem A, et al. **Cell Growth Differ** 1995 Dec;6(12):1651-8

Protein kinase C beta 1 and protein kinase C beta 2 activate p57 mitogen-activated protein kinase and block differentiation in colon carcinoma cells. Sauma S, et al. **Cell Growth Differ** 1996 May;7(5):587-94

Regulation of Myc-dependent apoptosis by p53, c-Jun N-terminal kinases/stress-activated protein kinases, and Mdm-2. Yu K, et al. **Cell Growth Differ** 1997 Jul; 8(7):731-42

Activation of Raf-1 and mitogen-activated protein kinases by erythropoietin and inositolphosphate-glycan in normal erythroid progenitor cells: involvement of protein kinase C. Devemy E, et al. **Cell Signal** 1997 Jan;9(1):41-6

Negative regulation of MAP kinase by diacylglycerol-dependent mechanisms via G protein-coupled receptors in rat basophilic RBL-2H3 (ml) cells. Hirasawa N, et al. **Cell Signal** 1997 May-Jun; 9(3-4):319-22

Cyclic AMP inhibitors inhibits PDGF-stimulated mitogen-activated protein kinase activity in rat aortic smooth muscle cells via inactivation of c-Raf-1 kinase and induction of MAP kinase phosphatase-1. Plevin R, et al. **Cell Signal** 1997 May-Jun;9(3-4):323-8

Platelet-derived growth factor activates a mammalian Ste20 coupled mitogen-activated protein kinase in airway smooth muscle. Pyne NJ, et al. **Cell Signal** 1997 May-Jun; 9(3-4):311-7

Protein tyrosine kinase activity is required for oxidant-induced extracellular signal-regulated protein kinase activation and c-fos and c-jun expression. Rao GN. **Cell Signal** 1997 Feb;9(2):181-7

The Raf/MAP kinase cascade in cell cycle regulation and differentiation in Drosophila. Nishida Y, et al. **Cell Struct Funct** 1996 Oct;21(5):437-44 (40 ref.)

Stimulation of the stress-activated mitogen-activated protein kinase subfamilies in perfused heart. p38/RK mitogen-activated protein kinases and c-Jun N-terminal kinases are activated by ischemia/reperfusion. Bogoyevitch MA, et al. **Circ Res** 1996 Aug;79(2):162-73 (108 ref.)

Angiotensin II stimulates c-Jun NH2-terminal kinase in cultured cardiac myocytes of neonatal rats. Kudoh S, et al. **Circ Res** 1997 Jan;80(1):139-46

Hypoxia/reoxygenation stimulates Jun kinase activity through redox signaling in cardiac myocytes. Laderoute KR, et al. **Circ Res** 1997 Mar;80(3):336-44

Activation of JAK-STAT and MAP kinases by leukemia inhibitory factor through gp130 in cardiac myocytes [see comments] [published erratum appears in Circulation 1997 Apr 1;95(7):1975] Kunisada K, et al. **Circulation** 1996 Nov 15;94(10):2626-32. Comment in: Circulation 1996 Nov 15;94(10):2361-3.

Norepinephrine induces the raf-1 kinase/mitogen-activated protein kinase cascade through both alpha 1- and beta-adrenoceptors. Yamazaki T, et al. **Circulation** 1997 Mar 4;95(5):1260-8

cGMP-elevating agents suppress proliferation of vascular smooth muscle cells by inhibiting the activation of epidermal growth factor signaling pathway [see comments] Yu SM, et al. **Circulation** 1997 Mar 4;95(5):1269-77. Comment in: Circulation 1997 Mar 4;95(5):1101-3.

Endothelin-induced activation of mitogen-activated protein kinases in glomerular mesangial cells from normotensive and stroke-prone spontaneously hypertensive rats. Kishimoto I, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S207-8

Signalling pathways involved in the mitogenic effects of cAMP. Withers DJ. **Clin Sci (Colch)** 1997 May;92(5):445-51 (21 ref.)

Mitogen-activated protein kinase cascades and the signaling of hyperosmotic stress to immediate early genes. Cohen DM. **Comp Biochem Physiol A Physiol** 1997 Jul; 117(3):291-9 (79 ref.)

A major second messenger mediator of Electrophorus electricus electric tissue is CaM kinase II. Gotter AL, et al. **Comp Biochem Physiol A Physiol** 1997 Sep;118(1):81-91

The growing family of MAP kinases: regulation and specificity. Kortenjann M, et al. **Crit Rev Oncog** 1995; 6(2):99-115 (188 ref.)

Human Ste20 homologue hPAK1 links GTPases to the JNK MAP kinase pathway. Brown JL, et al. **Curr Biol** 1996 May 1;6(5):598-605

Apoptosis: does stress kill? Cosulich S, et al. **Curr Biol** 1996 Dec 1;6(12):1586-8 (18 ref.)

Synaptic plasticity: A molecular mechanism for metaplasticity. Deisseroth K, et al. **Curr Biol** 1995 Dec 1;5(12):1334-8 (30 ref.)

p38/RK is essential for stress-induced nuclear responses: JNK/SAPKs and c-Jun/ATF-2 phosphorylation are insufficient. Hazzalin CA, et al. **Curr Biol** 1996 Aug 1; 6(8):1028-31

Impaired learning in mice with abnormal short-lived plasticity. Silva AJ, et al. **Curr Biol** 1996 Nov 1; 6(11):1509-18

Regulation of the mating pheromone and invasive growth responses in yeast by two MAP kinase substrates. Tedford K, et al. **Curr Biol** 1997 Apr 1;7(4):228-38

Intracellular signalling: putting JAKs on the kinase MAP. Winston LA, et al. **Curr Biol** 1996 Jun 1;6(6):668-71 (25 ref.)

The stress-activated protein kinase pathway mediates cell death following injury induced by cis-platinum, UV irradiation or heat. Zanke BW, et al. **Curr Biol** 1996 May 1;6(5):606-13

A mitogen-activated protein kinase (MAP-kinase) cascade is stimulated by platelet activating factor (PAF) in corneal epithelium. Bazan HE, et al. **Curr Eye Res** 1997 Apr; 16(4):372-9

Mitogen-activated protein kinase pathways. Robinson MJ, et al. **Curr Opin Cell Biol** 1997 Apr;9(2):180-6 (87 ref.)

MAP kinases in mitogenesis and development. Ferrell JE Jr. **Curr Top Dev Biol** 1996;33:1-60 (350 ref.)

Comparative effects of insulin on the activation of the Raf/Mos-dependent MAP kinase cascade in vitellogenic versus postvitellogenic Xenopus oocytes. Chesnel F, et al. **Dev Biol** 1997 Aug 1;188(1):122-33

Localization of MAP kinase activity in early Xenopus embryos: implications for endogenous FGF signaling. LaBonne C, et al. **Dev Biol** 1997 Mar 1;183(1):9-20

In vivo regulation of cytostatic activity in Xenopus metaphase II-arrested oocytes. Thibier C, et al. **Dev Biol** 1997 May 1;185(1):55-66

Differential activation of mitogen-activated protein kinase by insulin and epidermal growth factor in 3T3-L1 adipocytes: a possible involvement of PI3-kinase in the activation of the MAP kinase by insulin. Suga J, et al. **Diabetes** 1997 May;46(5):735-41

DAP-kinase is a Ca2+/calmodulin-dependent, cytoskeletal-associated protein kinase, with cell death-inducing functions that depend on its catalytic activity. Cohen O, et al. **EMBO J** 1997 Mar 3; 16(5):998-1008

D-myo-inositol 1,4,5-trisphosphate 3-kinase A is activated by receptor activation through a calcium:calmodulin-dependent protein kinase II phosphorylation mechanism. Communi D, et al. **EMBO J** 1997 Apr 15;16(8):1943-52

Activation of stress-activated protein kinase-3 (SAPK3) by cytokines and cellular stresses is mediated via SAPKK3 (MKK6); comparison of the specificities of SAPK3 and SAPK2 (RK/p38). Cuenda A, et al. **EMBO J** 1997 Jan 15;16(2):295-305

Interaction of MAP kinase with MAP kinase kinase: its possible role in the control of nucleocytoplasmic transport of MAP kinase. Fukuda M, et al. **EMBO J** 1997 Apr 15; 16(8):1901-8

MNK1, a new MAP kinase-activated protein kinase, isolated by a novel expression screening method for identifying protein kinase substrates. Fukunaga R, et al. **EMBO J** 1997 Apr 15;16(8):1921-33

A role for the Pkc1 MAP kinase pathway of Saccharomyces cerevisiae in bud emergence and identification of a putative upstream regulator. Gray JV, et al. **EMBO J** 1997 Aug 15;16(16):4924-37

CREB is activated by UVC through a p38/HOG-1-dependent protein kinase. Iordanov M, et al. **EMBO J** 1997 Mar 3;16(5):1009-22

Convergence of MAP kinase pathways on the ternary complex factor Sap-1a. Janknecht R, et al. **EMBO J** 1997 Apr 1;16(7):1620-7

HPK1, a hematopoietic protein kinase activating the SAPK/JNK pathway. Kiefer F, et al. **EMBO J** 1996 Dec 16;15(24):7013-25

Gi-mediated activation of the Ras/MAP kinase pathway involves a 100 kDa tyrosine-phosphorylated Grb2 SH3 binding protein, but not Src nor Shc. Kranenburg O, et al. **EMBO J** 1997 Jun 2;16(11):3097-105

The coupling of alpha6beta4 integrin to Ras-MAP kinase pathways mediated by Shc controls keratinocyte proliferation. Mainiero F, et al. **EMBO J** 1997 May 1; 16(9):2365-75

The receptor-associated protein (RAP) binds calmodulin and is phosphorylated by calmodulin-dependent kinase II. Petersen CM, et al. **EMBO J** 1996 Aug 15;15(16):4165-73

The p38 and ERK MAP kinase pathways cooperate to activate Ternary Complex Factors and c-fos transcription in response to UV light. Price MA, et al. **EMBO J** 1996 Dec 2;15(23):6552-63

Tumor necrosis factor alpha-induced activation of c-jun N-terminal kinase is mediated by TRAF2. Reinhard C, et al. **EMBO J** 1997 Mar 3;16(5):1080-92

Activation of the JNK pathway is essential for transformation by the Met oncogene. Rodrigues GA, et al. **EMBO J** 1997 May 15;16(10):2634-45

Tyrosine kinase activation is an immediate and essential step in hypotonic cell swelling-induced ERK activation and c-fos gene expression in cardiac myocytes. Sadoshima J, et al. **EMBO J** 1996 Oct 15;15(20):5535-46

IkappaB alpha is a target for the mitogen-activated 90 kDa ribosomal S6 kinase. Schouten GJ, et al. **EMBO J** 1997 Jun 2;16(11):3133-44

NIK is a new Ste20-related kinase that binds NCK and MEKK1 and activates the SAPK/JNK cascade via a conserved regulatory domain. Su YC, et al. **EMBO J** 1997 Mar 17;16(6):1279-90

MAP kinase links the fertilization signal transduction pathway to the G1/S-phase transition in starfish eggs. Tachibana K, et al. **EMBO J** 1997 Jul 16;16(14):4333-9

A human homolog of the yeast Ssk2/Ssk22 MAP kinase kinase kinases, MTK1, mediates stress-induced activation of the p38 and JNK pathways. Takekawa M, et al. **EMBO J** 1997 Aug 15;16(16):4973-82

MLK-3 activates the SAPK/JNK and p38/RK pathways via SEK1 and MKK3/6. Tibbles LA, et al. **EMBO J** 1996 Dec 16;15(24):7026-35

Mitogen-activated protein kinases activate the serine/threonine kinases Mnk1 and Mnk2. Waskiewicz AJ, et al. **EMBO J** 1997 Apr 15;16(8):1909-20

Spm1, a stress-activated MAP kinase that regulates morphogenesis in S.pombe. Zaitsevskaya-Carter T, et al. **EMBO J** 1997 Mar 17;16(6):1318-31

The effect of cyclic adenosine monophosphate on the mitogen-activated protein kinase pathway depends on both the cell type and the type of tyrosine kinase-receptor. Calleja V, et al. **Endocrinology** 1997 Mar;138(3):1111-20

Correlation of the activation of Ca2+/calmodulin-dependent protein kinase II with the initiation of insulin secretion from perifused pancreatic islets. Easom RA, et al. **Endocrinology** 1997 Jun; 138(6):2359-64

Proliferin induces endothelial cell chemotaxis through a G protein-coupled, mitogen-activated protein kinase-dependent pathway. Groskopf JC, et al. **Endocrinology** 1997 Jul;138(7):2835-40

Prostaglandin F2alpha stimulates tyrosine phosphorylation and mitogen-activated protein kinase in osteoblastic MC3T3-E1 cells via protein kinase C activation. Hakeda Y, et al. **Endocrinology** 1997 May;138(5):1821-8

Growth factor-induced transcription via the serum response element is inhibited by cyclic adenosine 3',5'-monophosphate in MCF-7 breast cancer cells [see comments] Lowe WL Jr, et al. **Endocrinology** 1997 Jun; 138(6):2219-26. Comment in: Endocrinology 1997 Jun;138(6):2217-8.

Synergistic antiproliferative actions of cyclic adenosine 3',5'-monophosphate, interleukin-1beta, and activators of Ca2+/calmodulin-dependent protein kinase in primary hepatocytes. Mellgren G, et al. **Endocrinology** 1997 Oct; 138(10):4373-83

Ca(2+)-regulated expression of aldosterone synthase is mediated by calmodulin and calmodulin-dependent protein kinases. Pezzi V, et al. **Endocrinology** 1997 Feb;138(2):835-8

Mechanism of mitogen-activated protein kinase activation by gonadotropin-releasing hormone in the pituitary of alphaT3-1 cell line: differential roles of calcium and protein kinase C. Reiss N, et al. **Endocrinology** 1997 Apr; 138(4):1673-82

Mitogen-activated protein kinase and phosphatidylinositol 3-kinase pathways are not sufficient for insulin-like growth factor I-induced mitogenesis and tumorigenesis. Scrimgeour AG, et al. **Endocrinology** 1997 Jun; 138(6):2552-8

Activation of mitogen-activated protein kinase by norepinephrine in brown adipocytes from rats. Shimizu Y, et al. **Endocrinology** 1997 Jan;138(1):248-53

Orthovanadate stimulates cyclic guanosine monophosphate-inhibited cyclic adenosine monophosphate phosphodiesterase activity in isolated rat fat pads through activation of particulate myelin basic protein kinase by protein tyrosine kinase. Ueki H, et al. **Endocrinology** 1997 Jul;138(7):2784-9

Rapid membrane effects of steroids in neuroblastoma cells: effects of estrogen on mitogen activated protein kinase signalling cascade and c-fos immediate early gene transcription. Watters JJ, et al. **Endocrinology** 1997 Sep; 138(9):4030-3

Interleukin-1 induced signalling: biphasic activation of mitogen-activated protein kinase kinase and mitogen-activated protein kinases in HeLa cells. Involvement of phosphoprotein phosphatases. Appel A, et al. **Eur Cytokine Netw** 1996 Dec;7(4):775-84

Phosphorylation and activation of cytosolic phospholipase A2 by 38-kDa mitogen-activated protein kinase in collagen-stimulated human platelets. Börsch-Haubold AG, et al. **Eur J Biochem** 1997 May 1;245(3):751-9

Substrate specificity and inhibitor sensitivity of Ca2+/S100-dependent twitchin kinases. Heierhorst J, et al. **Eur J Biochem** 1996 Dec 15;242(3):454-9

Antioxidants as well as oxidants activate c-fos via Ras-dependent activation of extracellular-signal-regulated kinase 2 and Elk-1. Müller JM, et al. **Eur J Biochem** 1997 Feb 15;244(1):45-52

Participation of a stress-activated protein kinase cascade in the activation of tyrosine hydroxylase in chromaffin cells. Thomas G, et al. **Eur J Biochem** 1997 Aug 1;247(3):1180-9

Phosphoregulatory tyrosine of Xenopus mitogen-activated protein kinase is out of the reach of the enzyme catalytic center after autophosphorylation. Biochemical evidence for conformational changes upon phosphorylation. Tokmakov AA, et al. **Eur J Biochem** 1996 Oct 15;241(2):322-9

Mediation by arachidonic acid metabolites of the H2O2-induced stimulation of mitogen-activated protein kinases (extracellular-signal-regulated kinase and c-Jun NH2-terminal kinase). Tournier C, et al. **Eur J Biochem** 1997 Mar 1;244(2):587-95

Reconstitution of T cell antigen receptor-induced Erk2 kinase activation in Lck-negative JCaM1 cells by Syk. Williams S, et al. **Eur J Biochem** 1997 Apr 1;245(1):84-90

Protein phosphatases control MAP kinase activation and microtubule organization during rat oocyte maturation. Zernicka-Goetz M, et al. **Eur J Cell Biol** 1997 Jan; 72(1):30-8

Growth arrest of gammadelta T cells induced by monoclonal antibody against WC1 correlates with activation of multiple tyrosine phosphatases and dephosphorylation of MAP kinase erk2. Kirkham PA, et al. **Eur J Immunol** 1997 Mar;

27(3):717-25
Chronic NMDA receptor antagonism during retinotopic map formation depresses CaM kinase II differentiation in rat superior colliculus. Scheetz AJ, et al. **Eur J Neurosci** 1996 Jul;8(7):1322-8
Protein kinase C-independent activation of mitogen-activated protein kinase by epidermal growth factor in skin fibroblasts. Le Panse R, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):339-45
Tyrphostin 23 blocks phosphorylation of p42 but not p38 mitogen-activated protein kinase by zooxanthellatoxin-A. Rho MC, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):375-8
Cell-matrix interactions induce tyrosine phosphorylation of MAP kinases ERK1 and ERK2 and PLCgamma-1 in two-dimensional and three-dimensional cultures of human fibroblasts. Langholz O, et al. **Exp Cell Res** 1997 Aug 25; 235(1):22-7
Differential regulation of extracellular signal-regulated kinase 1 and 2 activity during 12-O-tetradecanoylphorbol 13-acetate-induced differentiation of HL-60 cells. Meighan-Mantha RL, et al. **Exp Cell Res** 1997 Aug 1; 234(2):321-8
Expression of the activated p185erbB2 tyrosine kinase in human epithelial cells leads to MAP kinase activation but does not confer oncogenicity. Nowak F, et al. **Exp Cell Res** 1997 Mar 15;231(2):251-9
Induction of neurite outgrowth in PC12 cells by gamma-lactam-related compounds via Ras-MAP kinase signaling pathway independent mechanism. Yao R, et al. **Exp Cell Res** 1997 Aug 1;234(2):233-9
PHAS-I phosphorylation in response to foetal bovine serum (FBS) is regulated by an ERK1/ERK2-independent and rapamycin-sensitive pathway in 3T3-L1 adipocytes. Arnott CH, et al. **FEBS Lett** 1997 Apr 7;406(1-2):179-83
The endogenous cardiac sarcoplasmic reticulum Ca2+/calmodulin-dependent kinase is activated in response to beta-adrenergic stimulation and becomes Ca2+-independent in intact beating hearts. Baltas LG, et al. **FEBS Lett** 1997 Jun 9;409(2):131-6
The MAP kinase cascades are activated during post-ischemic liver reperfusion. Bendinelli P, et al. **FEBS Lett** 1996 Dec 2;398(2-3):193-7
MPM-2 epitope sequence is not sufficient for recognition and phosphorylation by ME kinase-H. Che S, et al. **FEBS Lett** 1997 Aug 25;413(3):417-23
Phosphorylation of dynamin by ERK2 inhibits the dynamin-microtubule interaction. Earnest S, et al. **FEBS Lett** 1996 Oct 28;396(1):62-6
Activation of mitogen-activated protein kinase by the nociceptin receptor expressed in Chinese hamster ovary cells. Fukuda K, et al. **FEBS Lett** 1997 Jul 28;412(2):290-4
Phosphorylation of microtubule-associated protein tau by stress-activated protein kinases. Goedert M, et al. **FEBS Lett** 1997 Jun 2;409(1):57-62
Positive and negative regulation of JNK1 by protein kinase C and p42(MAP kinase) in adult rat hepatocytes. Jarvis WD, et al. **FEBS Lett** 1997 Jul 21;412(1):9-14
Activation of MAP kinase cascade induced by human pancreatic phospholipase A2 in a human pancreatic cancer cell line. Kinoshita E, et al. **FEBS Lett** 1997 May 5; 407(3):343-6
Phosphocholine and sphingosine-1-phosphate synergistically stimulate DNA synthesis by a MAP kinase-dependent mechanism. Kiss Z, et al. **FEBS Lett** 1997 Jul 21; 412(1):197-200
Pervanadate elicits proliferation and mediates activation of mitogen-activated protein (MAP) kinase in the nucleus. Krady MM, et al. **FEBS Lett** 1997 Aug 4;412(3):420-4
SKK4, a novel activator of stress-activated protein kinase-1 (SAPK1/JNK). Lawler S, et al. **FEBS Lett** 1997 Sep 1; 414(1):153-8
Vav is associated with signal transducing molecules gp130, Grb2 and Erk2, and is tyrosine phosphorylated in response to interleukin-6. Lee IS, et al. **FEBS Lett** 1997 Jan 20; 401(2-3):133-7
Ischemic preconditioning triggers the activation of MAP kinases and MAPKAP kinase 2 in rat hearts. Maulik N, et al. **FEBS Lett** 1996 Nov 4;396(2-3):233-7
Activation-independent nuclear translocation of mitogen activated protein kinase ERK1 mediated by thiol-modifying chemicals. Meili R, et al. **FEBS Lett** 1996 Sep 23;394(1):34-8
Activation of Stat1 and subsequent transcription of inducible nitric oxide synthase gene in C6 glioma cells is independent of interferon-gamma-induced MAPK activation that is mediated by p21ras. Nishiya T, et al. **FEBS Lett** 1997 May 12;408(1):33-8
Nitric oxide stimulates stress-activated protein kinases in glomerular endothelial and mesangial cells. Pfeilschifter J, et al. **FEBS Lett** 1996 Oct 28;396(1):67-70
Transforming growth factor-beta1 induces activation of Ras, Raf-1, MEK and MAPK in rat hepatic stellate cells. Reimann T, et al. **FEBS Lett** 1997 Feb 10;403(1):57-60
Kinetics of calcium and calmodulin-dependent protein kinase III from embryonic chicken leg muscle cells. Riis B, et al. **FEBS Lett** 1997 Apr 21;407(1):21-4
p42 MAPK phosphorylates 80 kDa MARCKS at Ser-113. Schönwasser DC, et al. **FEBS Lett** 1996 Oct 14;395(1):1-5
Insulin activates a PD 098059-sensitive kinase that is involved in the regulation of p70S6K and PHAS-I. Scott PH, et al. **FEBS Lett** 1997 Jun 9;409(2):171-6
Advanced glycation endproducts stimulate the MAP-kinase pathway in tubulus cell line LLC-PK1. Simm A, et al. **FEBS Lett** 1997 Jun 30;410(2-3):481-4
Osmosignalling in C6 glioma cells. Sinning R, et al. **FEBS Lett** 1997 Jan 3;400(2):163-7
Increasing cAMP antagonizes hypertrophic response to angiotensin II without affecting Ras and MAP kinase activation in vascular smooth muscle cells. Takahashi T, et al. **FEBS Lett** 1996 Nov 11;397(1):89-92
Hypo-osmotic cell swelling activates the p38 MAP kinase signalling cascade. Tilly BC, et al. **FEBS Lett** 1996 Oct 21;395(2-3):133-6
Overexpression of the mouse dishevelled-1 protein inhibits GSK-3beta-mediated phosphorylation of tau in transfected mammalian cells. Wagner U, et al. **FEBS Lett** 1997 Jul 14;411(2-3):369-72
Listeria monocytogenes infection of HeLa cells results in listeriolysin O-mediated transient activation of the Raf-MEK-MAP kinase pathway. Weiglein I, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):189-95
Differential activation of ERK, JNK/SAPK and P38/CSBP/RK map kinase family members during the cellular response to arsenite. Liu Y, et al. **Free Radic Biol Med** 1996;21(6):771-81
Mitogen-activated protein kinases mediate the stimulation of bile acid secretion by tauroursodeoxycholate in rat liver. Schliess F, et al. **Gastroenterology** 1997 Oct;113(4):1306-14
Two novel targets of the MAP kinase Kss1 are negative regulators of invasive growth in the yeast Saccharomyces cerevisiae. Cook JG, et al. **Genes Dev** 1996 Nov 15; 10(22):2831-48
Autonomous and nonautonomous regulation of axis formation by antagonistic signaling via 7-span cAMP receptors and GSK3 in Dictyostelium. Ginsburg GT, et al. **Genes Dev** 1997 Aug 15;11(16):2112-23
Coupling of Jun amino-terminal kinase and Decapentaplegic signaling pathways in Drosophila morphogenesis. Glise B, et al. **Genes Dev** 1997 Jul 1;11(13):1738-47
Drosophila Jun relays the Jun amino-terminal kinase signal transduction pathway to the Decapentaplegic signal transduction pathway in regulating epithelial cell sheet movement. Hou XS, et al. **Genes Dev** 1997 Jul 1; 11(13):1728-37
Human HPK1, a novel human hematopoietic progenitor kinase that activates the JNK/SAPK kinase cascade. Hu MC, et al. **Genes Dev** 1996 Sep 15;10(18):2251-64
Jun in Drosophila development: redundant and nonredundant functions and regulation by two MAPK signal transduction pathways. Kockel L, et al. **Genes Dev** 1997 Jul 1; 11(13):1748-58
Mitogenic stimulation of resting T cells causes rapid phosphorylation of the transcription factor LSF and increased DNA-binding activity. Volker JL, et al. **Genes Dev** 1997 Jun 1;11(11):1435-46
Differential regulation of FUS3 MAP kinase by tyrosine-specific phosphatases PTP2/PTP3 and dual-specificity phosphatase MSG5 in Saccharomyces cerevisiae. Zhan XL, et al. **Genes Dev** 1997 Jul 1; 11(13):1690-702
Oxidized low density lipoproteins stimulate galactosyltransferase activity, ras activation, p44 mitogen activated protein kinase and c-fos expression in aortic smooth muscle cells. Chatterjee S, et al. **Glycobiology** 1997 Jul;7(5):703-10
The activation of MAP kinase during vertical palatal shelf development in hamster. Young AV, et al. **Growth Dev Aging** 1997 Spring;61(1):27-38
Possible involvement of pertussis toxin-sensitive G protein in hepatocyte growth factor-induced signal transduction in cultured rat hepatocytes: pertussis toxin treatment inhibits activation of phospholipid signaling, calcium oscillation, and mitogen-activated protein kinase. Adachi T, et al. **Hepatology** 1997 Aug;26(2):295-300
Reperfusion after liver transplantation in rats differentially activates the mitogen-activated protein kinases [see comments] Bradham CA, et al. **Hepatology** 1997 May; 25(5):1128-35. Comment in: Hepatology 1997 May;25(5):1276-8.
Biological effects of human insulin receptor substrate-1 overexpression in hepatocytes. Tanaka S, et al. **Hepatology** 1997 Sep;26(3):598-604
Mitogen-activated protein kinase activation is involved in platelet-derived growth factor-directed migration by vascular smooth muscle cells. Graf K, et al. **Hypertension** 1997 Jan;29(1 Pt 2):334-9
Counterregulation by the coreceptors CD19 and CD22 of MAP kinase activation by membrane immunoglobulin. Tooze RM, et al. **Immunity** 1997 Jul;7(1):59-67
Effects of phorbol ester on phospholipase D and mitogen-activated protein kinase activities in T-lymphocyte cell lines. Bradshaw CD, et al. **Immunol Lett** 1996 Nov;53(2-3):69-76
Targets of p56(lck) activity in immature thymoblasts: stimulation of the Ras/Raf/MAPK pathway. Lin K, et al. **Int Immunol** 1997 Feb;9(2):291-306
Ornithine decarboxylase over-expression stimulates mitogen-activated protein kinase and anchorage-independent growth of human breast epithelial cells. Manni A, et al. **Int J Cancer** 1997 Jan 17;70(2):175-82
Intracellular acidification mediates the proliferative response of PC12 cells induced by potassium ferricyanide and involves MAP kinase activation. Thomas D, et al. **Int J Cancer** 1996 Nov 15;68(4):547-52
Presence and regulation of Raf-1-K (Kinase), MAPK-K, MAP-K, and S6-K in rat nephron segments. Terada Y, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1565-77
Mck1, a member of the glycogen synthase kinase 3 family of protein kinases, is a negative regulator of pyruvate kinase in the yeast Saccharomyces cerevisiae. Brazill DT, et al. **J Bacteriol** 1997 Jul;179(13):4415-8
Interaction of ganglioside with specific peptide sequences as a mechanism for the modulation of calmodulin-dependent enzymes. Higashi H, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):66-73
Requirement of calcium influx for hydrolytic action of membrane phospholipids by cytosolic phospholipase A2 rather than mitogen-activated protein kinase activation in Fc epsilon RI-stimulated rat peritoneal mast cells. Ishimoto T, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1247-52
A new peptide conjugate as a highly specific substrate for MAP kinase. Kameshita I, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):168-72
Studies on the site of phosphorylation of Ca2+/calmodulin-dependent protein kinase (CaM-kinase) IV by CaM-kinase kinase. Kitani T, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):804-10
Functional domains of plant chimeric calcium/calmodulin-dependent protein kinase: regulation by autoinhibitory and visinin-like domains. Ramachandiran S, et al. **J Biochem (Tokyo)** 1997 May;121(5):984-90
c-Src is required for oxidative stress-mediated activation of big mitogen-activated protein kinase 1. Abe Ji, et al. **J Biol Chem** 1997 Aug 15;272(33):20389-94
Transcriptional activation by peroxisome proliferator-activated receptor gamma is inhibited by phosphorylation at a consensus mitogen-activated protein kinase site. Adams M, et al. **J Biol Chem** 1997 Feb 21; 272(8):5128-32
Activation of c-Jun-NH2-kinase by UV irradiation is dependent on p21ras. Adler V, et al. **J Biol Chem** 1996 Sep 20;271(38):23304-9
Regulation of the transforming growth factor beta-responsive transcription factor CTF-1 by calcineurin and calcium/calmodulin-dependent protein kinase IV. Alevizopoulos A, et al. **J Biol Chem** 1997 Sep 19; 272(38):23597-605
Activation of multiple mitogen-activated protein kinase signal transduction pathways by the endothelin B receptor requires the cytoplasmic tail. Aquilla E, et al. **J Biol Chem** 1996 Dec 6;271(49):31572-9
Induction of apoptosis by DPC4, a transcriptional factor regulated by transforming growth factor-beta through stress-activated protein kinase/c-Jun N-terminal kinase (SAPK/JNK) signaling pathway. Atfi A, et al. **J Biol Chem** 1997 Oct 3;272(40):24731-4
Evidence for a role of Rho-like GTPases and stress-activated protein kinase/c-Jun N-terminal kinase (SAPK/JNK) in transforming growth factor beta-mediated signaling. Atfi A, et al. **J Biol Chem** 1997 Jan 17;272(3):1429-32
The Dictyostelium mitogen-activated protein kinase ERK2 is regulated by Ras and cAMP-dependent protein kinase (PKA) and mediates PKA function. Aubry L, et al. **J Biol Chem** 1997 Feb 14;272(7):3883-6
Activation of MEKK by formyl-methionyl-leucyl-phenylalanine in human neutrophils. Mapping pathways for mitogen-activated protein kinase activation. Avdi NJ, et al. **J Biol Chem** 1996 Dec 27;271(52):33598-606
Phosphatidylinositol 3'-kinase and p70s6k are required for insulin but not bisperoxovanadium 1,10-phenanthroline (bpV(phen)) inhibition of insulin-like growth factor binding protein gene expression. Evidence for MEK-independent activation of mitogen-activated protein kinase by bpV(phen). Band CJ, et al. **J Biol Chem** 1997 Jan 3; 272(1):138-45
The selective protein kinase C inhibitor, Ro-31-8220, inhibits mitogen-activated protein kinase phosphatase-1 (MKP-1) expression, induces c-Jun expression, and activates Jun N-terminal kinase. Beltman J, et al. **J Biol Chem** 1996 Oct 25;271(43):27018-24
The p42/p44 mitogen-activated protein kinase cascade is determinant in mediating activation of the Na+/H+ exchanger (NHE1 isoform) in response to growth factors. Bianchini L, et al. **J Biol Chem** 1997 Jan 3;272(1):271-9
Brain-derived neurotrophic factor increases Ca2+/calmodulin-dependent protein kinase 2 activity in hippocampus. Blanquet PR, et al. **J Biol Chem** 1997 Sep 26;272(39):24133-6
A selective inverse agonist for central cannabinoid receptor inhibits mitogen-activated protein kinase activation stimulated by insulin or insulin-like growth factor 1. Evidence for a new model of receptor/ligand interactions. Bouaboula M, et al. **J Biol Chem** 1997 Aug 29; 272(35):22330-9
Fas- or ceramide-induced apoptosis is mediated by a Rac1-regulated activation of Jun N-terminal kinase/p38 kinases and GADD153. Brenner B, et al. **J Biol Chem** 1997 Aug 29;272(35):22173-81
The dual specificity mitogen-activated protein kinase phosphatase-1 and -2 are induced by the p42/p44MAPK cascade. Brondello JM, et al. **J Biol Chem** 1997 Jan 10; 272(2):1368-76
The catalytic domain of Acanthamoeba myosin I heavy chain kinase. I. Identification and characterization following tryptic cleavage of the native enzyme. Brzeska H, et al.

J Biol Chem 1996 Oct 25;271(43):27049–55

The catalytic domain of acanthamoeba myosin I heavy chain kinase. II. Expression of active catalytic domain and sequence homology to p21-activated kinase (PAK). Brzeska H, et al. **J Biol Chem** 1996 Oct 25;271(43):27056–62

c-Jun NH2-terminal kinase regulation of the apoptotic response of small cell lung cancer cells to ultraviolet radiation. Butterfield L, et al. **J Biol Chem** 1997 Apr 11; 272(15):10110–6

Regulation of peroxisome proliferator-activated receptor gamma activity by mitogen-activated protein kinase. Camp HS, et al. **J Biol Chem** 1997 Apr 18;272(16):10811–6

Insulin stimulates mitogen-activated protein kinase by a Ras-independent pathway in 3T3-L1 adipocytes. Carel K, et al. **J Biol Chem** 1996 Nov 29;271(48):30625–30

The role of c-Jun N-terminal kinase (JNK) in apoptosis induced by ultraviolet C and gamma radiation. Duration of JNK activation may determine cell death and proliferation. Chen YR, et al. **J Biol Chem** 1996 Dec 13; 271(50):31929–36

Methionine to glutamine substitutions in the C-terminal domain of calmodulin impair the activation of three protein kinases. Chin D, et al. **J Biol Chem** 1996 Nov 29; 271(48):30465–71

Functional consequences of truncating amino acid side chains located at a calmodulin-peptide interface. Chin D, et al. **J Biol Chem** 1997 Feb 28;272(9):5510–3

Sequential phosphorylation by mitogen-activated protein kinase and glycogen synthase kinase 3 represses transcriptional activation by heat shock factor-1. Chu B, et al. **J Biol Chem** 1996 Nov 29;271(48):30847–57

ATP-dependent choline phosphate-induced mitogenesis in fibroblasts involves activation of pp70 S6 kinase and phosphatidylinositol 3'-kinase through an extracellular site. Synergistic mitogenic effects of choline phosphate and sphingosine 1-phosphate. Chung T, et al. **J Biol Chem** 1997 Jan 31;272(5):3064–72

p120 GAP modulates Ras activation of Jun kinases and transformation. Clark GJ, et al. **J Biol Chem** 1997 Jan 17; 272(3):1677–81

Regulation of mitogen-activated protein kinase phosphatase-1 expression by extracellular signal-related kinase-dependent and Ca2+-dependent signal pathways in Rat-1 cells. Cook SJ, et al. **J Biol Chem** 1997 May 16; 272(20):13309–19

Activation of a mitogen-activated protein kinase (ERK2) by the 5-hydroxytryptamine1A receptor is sensitive not only to inhibitors of phosphatidylinositol 3-kinase, but to an inhibitor of phosphatidylcholine hydrolysis. Cowen DS, et al. **J Biol Chem** 1996 Sep 13;271(37):22297–300

T cell proliferation in response to interleukins 2 and 7 requires p38MAP kinase activation. Crawley JB, et al. **J Biol Chem** 1997 Jun 6;272(23):15023–7

Expression of a constitutively active Ca2+/calmodulin-dependent kinase in Aspergillus nidulans spores prevents germination and entry into the cell cycle. Dayton JS, et al. **J Biol Chem** 1997 Feb 7; 272(6):3223–30

Activation of 12-O-tetradecanoylphorbol-13-acetate response element- and dyad symmetry element-dependent transcription by interleukin-5 is mediated by Jun N-terminal kinase/stress-activated protein kinase kinases. de Groot RP, et al. **J Biol Chem** 1997 Jan 24;272(4):2319–25

Ras-dependent mitogen-activated protein kinase activation by G protein-coupled receptors. Convergence of Gi- and Gq-mediated pathways on calcium/calmodulin, Pyk2, and Src kinase. Della Rocca GJ, et al. **J Biol Chem** 1997 Aug 1;272(31):19125–32

Direct activation of the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by an inducible mitogen-activated protein Kinase/ERK kinase kinase 3 (MEKK) derivative. Ellinger-Ziegelbauer H, et al. **J Biol Chem** 1997 Jan 31; 272(5):2668–74

Activation of p42 mitogen-activated protein kinase in hippocampal long term potentiation. English JD, et al. **J Biol Chem** 1996 Oct 4;271(40):24329–32

A requirement for the mitogen-activated protein kinase cascade in hippocampal long term potentiation. English JD, et al. **J Biol Chem** 1997 Aug 1;272(31):19103–6

Dual leucine zipper-bearing kinase (DLK) activates p46SAPK and p38mapk but not ERK2. Fan G, et al. **J Biol Chem** 1996 Oct 4;271(40):24788–93

Lysophosphatidylcholine stimulates activator protein 1 and the c-Jun N-terminal kinase activity. Fang X, et al. **J Biol Chem** 1997 May 23;272(21):13683–9

Mechanistic studies of the dual phosphorylation of mitogen-activated protein kinase. Ferrell JE Jr, et al. **J Biol Chem** 1997 Jul 25;272(30):19008–16

Angiotensin II stimulates phosphorylation of the translational repressor 4E-binding protein 1 by a mitogen-activated protein kinase-independent mechanism. Fleurent M, et al. **J Biol Chem** 1997 Feb 14;272(7):4006–12

Hemopoietic growth factors with the exception of interleukin-4 activate the p38 mitogen-activated protein kinase pathway. Foltz IN, et al. **J Biol Chem** 1997 Feb 7;272(6):3296–301

Hsp70 prevents activation of stress kinases. A novel pathway of cellular thermotolerance. Gabai VL, et al. **J Biol Chem** 1997 Jul 18;272(29):18033–7

Cloning of a novel mitogen-activated protein kinase kinase kinase, MEKK4, that selectively regulates the c-Jun amino terminal kinase pathway. Gerwins P, et al. **J Biol Chem** 1997 Mar 28;272(13):8288–95

Aberrant stress-induced phosphorylation of perikaryal neurofilaments. Giasson BI, et al. **J Biol Chem** 1996 Nov 29;271(48):30404–9

JNK (c-Jun NH2-terminal kinase) is a target for antioxidants in T lymphocytes. Gómez del Arco P, et al. **J Biol Chem** 1996 Oct 18;271(42):26335–40

p38 mitogen-activated protein kinase down-regulates nitric oxide and up-regulates prostaglandin E2 biosynthesis stimulated by interleukin-1beta. Guan Z, et al. **J Biol Chem** 1997 Mar 21;272(12):8083–9

MST/MLK2, a member of the mixed lineage kinase family, directly phosphorylates and activates SEK1, an activator of c-Jun N-terminal kinase/stress-activated protein kinase. Hirai Si, et al. **J Biol Chem** 1997 Jun 13;272(24):15167–73

Signaling through intercellular adhesion molecule 1 (ICAM-1) in a B cell lymphoma line. The activation of Lyn tyrosine kinase and the mitogen-activated protein kinase pathway. Holland J, et al. **J Biol Chem** 1997 Apr 4;272(14):9108–12

Parathyroid hormone-related peptide is produced by cultured cerebellar granule cells in response to L-type voltage-sensitive Ca2+ channel flux via a Ca2+/calmodulin-dependent kinase pathway. Holt EH, et al. **J Biol Chem** 1996 Nov 8;271(45):28105–11

Discordant activation of stress-activated protein kinases or c-Jun NH2-terminal protein kinases in tissues of heat-stressed mice. Hu Y, et al. **J Biol Chem** 1997 Apr 4;272(14):9113–9

Interferon-gamma activation of a mitogen-activated protein kinase, KFR1, in the bloodstream form of Trypanosoma brucei. Hua SB, et al. **J Biol Chem** 1997 Apr 18; 272(16):10797–803

An inhibitory fragment derived from protein kinase Cepsilon prevents enhancement of nerve growth factor responses by ethanol and phorbol esters. Hundle B, et al. **J Biol Chem** 1997 Jun 6;272(23):15028–35

Spatial patterns of Ca2+ signals define intracellular distribution of a signaling by Ca2+/Calmodulin-dependent protein kinase II. Inagaki N, et al. **J Biol Chem** 1997 Oct 3;272(40):25195–9

c-Jun amino-terminal kinase is regulated by Galpha12/Galpha13 and obligate for differentiation of P19 embryonal carcinoma cells by retinoic acid. Jho EH, et al. **J Biol Chem** 1997 Sep 26;272(39):24468–74

Structure-function studies of p38 mitogen-activated protein kinase. Loop 12 influences substrate specificity and autophosphorylation, but not upstream kinase selection. Jiang Y, et al. **J Biol Chem** 1997 Apr 25;272(17):11096–102

Differential effect of shear stress on extracellular signal-regulated kinase and N-terminal Jun kinase in endothelial cells. Gi2- and Gbeta/gamma-dependent signaling pathways. Jo H, et al. **J Biol Chem** 1997 Jan 10; 272(2):1395–401

Tumor necrosis factor receptors (Tnfr) in mouse fibroblasts deficient in Tnfr1 or Tnfr2 are signaling competent and activate the mitogen-activated protein kinase pathway with differential kinetics. Kalb A, et al. **J Biol Chem** 1996 Nov 8;271(45):28097–104

Cripto enhances the tyrosine phosphorylation of Shc and activates mitogen-activated protein kinase (MAPK) in mammary epithelial cells. Kannan S, et al. **J Biol Chem** 1997 Feb 7;272(6):3330–5

Activation and involvement of p38 mitogen-activated protein kinase in glutamate-induced apoptosis in rat cerebellar granule cells. Kawasaki H, et al. **J Biol Chem** 1997 Jul 25;272(30):18518–21

Reconstitution of mitogen-activated protein kinase phosphorylation cascades in bacteria. Efficient synthesis of active protein kinases. Khokhlatchev A, et al. **J Biol Chem** 1997 Apr 25;272(17):11057–62

Insulin-like growth factor-I-mediated neurite outgrowth in vitro requires mitogen-activated protein kinase activation. Kim B, et al. **J Biol Chem** 1997 Aug 22;272(34):21268–73

Chemotactic peptide N-formyl-met-leu-phe activation of p38 mitogen-activated protein kinase (MAPK) and MAPK-activated protein kinase-2 in human neutrophils. Krump E, et al. **J Biol Chem** 1997 Jan 10;272(2):937–44

Activation of the HIV-1 long terminal repeat by cytokines and environmental stress requires an active CSBP/p38 MAP kinase. Kumar S, et al. **J Biol Chem** 1996 Nov 29; 271(48):30864–9

Regulation of a c-Jun amino-terminal kinase/stress-activated protein kinase cascade by a sodium-dependent signal transduction pathway. Kuroki DW, et al. **J Biol Chem** 1997 Sep 19;272(38):23905–11

Activation of the receptor for advanced glycation end products triggers a p21(ras)-dependent mitogen-activated protein kinase pathway regulated by oxidant stress. Lander HM, et al. **J Biol Chem** 1997 Jul 11;272(28):17810–4

Cloning and characterization of a Dictyostelium myosin I heavy chain kinase activated by Cdc42 and Rac. Lee SF, et al. **J Biol Chem** 1996 Oct 25;271(43):27044–8

Oncogenic raf-1 induces the expression of non-histone chromosomal architectural protein HMGI-C via a p44/p42 mitogen-activated protein kinase-dependent pathway in salivary epithelial cells. Li D, et al. **J Biol Chem** 1997 Oct 3;272(40):25062–70

Protein kinase C and protein kinase A inhibit calcium-dependent but not stress-dependent c-Jun N-terminal kinase activation in rat liver epithelial cells. Li X, et al. **J Biol Chem** 1997 Jun 6;272(23):14996–5002

Protein kinase C-zeta mediates angiotensin II activation of ERK1/2 in vascular smooth muscle cells. Liao DF, et al. **J Biol Chem** 1997 Mar 7;272(10):6146–50

In vitro enhancement of p38 mitogen-activated protein kinase activity by phosphorylated glia maturation factor. Lim R, et al. **J Biol Chem** 1996 Sep 20;271(38):22953–6

Hypoglycemia-induced c-Jun phosphorylation is mediated by c-Jun N-terminal kinase 1 and Lyn kinase in drug-resistant human breast carcinoma MCF-7/ADR cells. Liu X, et al. **J Biol Chem** 1997 May 2;272(18):11690–3

Identification of c-Jun NH2-terminal protein kinase (JNK)-activating kinase 2 as an activator of JNK but not p38. Lu X, et al. **J Biol Chem** 1997 Oct 3;272(40):24751–4

Collaborative roles for c-Jun N-terminal kinase, c-Jun, serum response factor, and Sp1 in calcium-regulated myocardial gene expression. McDonough PM, et al. **J Biol Chem** 1997 Sep 19;272(38):24046–53

VLA-4 integrin cross-linking on human monocytic THP-1 cells induces tissue factor expression by a mechanism involving mitogen-activated protein kinase. McGilvray ID, et al. **J Biol Chem** 1997 Apr 11;272(15):10287–94

Platelet-derived growth factor receptor tyrosine phosphorylation requires protein geranylgeranylation but not farnesylation. McGuire TF, et al. **J Biol Chem** 1996 Nov 1;271(44):27402–7

Activation of the mitogen-activated protein kinase ERK2 by the chemoattractant folic acid in Dictyostelium. Maeda M, et al. **J Biol Chem** 1997 Sep 19;272(38):23690–5

Role of Janus kinase/signal transducer and activator of transcription and mitogen-activated protein kinase cascades in angiotensin II- and platelet-derived growth factor-induced vascular smooth muscle cell proliferation. Marrero MB, et al. **J Biol Chem** 1997 Sep 26; 272(39):24684–90

Bcl-2 undergoes phosphorylation by c-Jun N-terminal kinase/stress-activated protein kinases in the presence of the constitutively active GTP-binding protein Rac1. Maundrell K, et al. **J Biol Chem** 1997 Oct 3; 272(40):25238–42

Identification and characterization of the CLK1 gene product, a novel CaM kinase-like protein kinase from the yeast Saccharomyces cerevisiae. Melcher ML, et al. **J Biol Chem** 1996 Nov 22;271(47):29958–68

Calponin and mitogen-activated protein kinase signaling in differentiated vascular smooth muscle. Menice CB, et al. **J Biol Chem** 1997 Oct 3;272(40):25157–61

A novel mechanism of JNK1 activation. Nuclear translocation and activation of JNK1 during ischemia and reperfusion. Mizukami Y, et al. **J Biol Chem** 1997 Jun 27; 272(26):16657–62

Cdc42Hs, but not Rac1, inhibits serum-stimulated cell cycle progression at G1/S through a mechanism requiring p38/RK. Molnár A, et al. **J Biol Chem** 1997 May 16; 272(20):13229–35

Purification and identification of a major activator for p38 from osmotically shocked cells. Activation of mitogen-activated protein kinase kinase 6 by osmotic shock, tumor necrosis factor-alpha, and H2O2. Moriguchi T, et al. **J Biol Chem** 1996 Oct 25;271(43):26981–8

Involvement of stress-activated protein kinase and p38/RK mitogen-activated protein kinase signaling pathways in the enhanced phosphorylation of initiation factor 4E in NIH 3T3 cells. Morley SJ, et al. **J Biol Chem** 1997 Jul 11; 272(28):17887–93

Regulation of protein kinase B and glycogen synthase kinase-3 by insulin and beta-adrenergic agonists in rat epididymal fat cells. Activation of protein kinase B by wortmannin-sensitive and -insensitive mechanisms. Moule SK, et al. **J Biol Chem** 1997 Mar 21;272(12):7713–9

Rad and Rad-related GTPases interact with calmodulin and calmodulin-dependent protein kinase II. Moyers JS, et al. **J Biol Chem** 1997 May 2;272(18):11832–9

The dual specificity phosphatases M3/6 and MKP-3 are highly selective for inactivation of distinct mitogen-activated protein kinases. Muda M, et al. **J Biol Chem** 1996 Nov 1;271(44):27205–8

Hypoxia induces c-fos transcription via a mitogen-activated protein kinase-dependent pathway. Müller JM, et al. **J Biol Chem** 1997 Sep 12;272(37):23435–9

Calcium/calmodulin-dependent protein kinase IIalpha mediates activation of mitogen-activated protein kinase and cytosolic phospholipase A2 in norepinephrine-induced arachidonic acid release in rabbit aortic smooth muscle cells. Muthalif MM, et al. **J Biol Chem** 1996 Nov 22; 271(47):30149–57

Negative regulation of mitogen-activated protein kinase activation by integrin alphaIIbbeta3 in platelets. Nadal F, et al. **J Biol Chem** 1997 Sep 5;272(36):22381–4

Phosphocitrate inhibits a basic calcium phosphate and calcium pyrophosphate dihydrate crystal-induced mitogen-activated protein kinase cascade signal transduction pathway. Nair D, et al. **J Biol Chem** 1997 Jul 25;272(30):18920–5

Biochemical characterization of rolledSem, an activated form of Drosophila mitogen-activated protein kinase. Oellers N, et al. **J Biol Chem** 1996 Oct 4;271(40):24939–44

Identification of a phosphorylation site for calcium/calmodulindependent protein kinase II in the NR2B subunit of the N-methyl-D-aspartate receptor. Omkumar RV, et al. **J Biol Chem** 1996 Dec 6; 271(49):31670–8

CALMODULIN-DEPENDENT PROTEIN KINASES

Role of the stress-activated/c-Jun NH2-terminal protein kinase pathway in the cellular response to adriamycin and other chemotherapeutic drugs. Osborn MT, et al. **J Biol Chem** 1996 Nov 29;271(48):30950-5

Activation of p38 mitogen-activated protein kinase by c-Abl-dependent and -independent mechanisms. Pandey P, et al. **J Biol Chem** 1996 Sep 27;271(39):23775-9

Activation of c-Jun N-terminal kinase antagonizes an anti-apoptotic action of Bcl-2. Park J, et al. **J Biol Chem** 1997 Jul 4;272(27):16725-8

A peptide model for calmodulin trapping by calcium/calmodulin-dependent protein kinase II. Putkey JA, et al. **J Biol Chem** 1996 Nov 22;271(47):29619-23

Sustained activation of the extracellular signal-regulated kinase/mitogen-activated protein kinase pathway is required for megakaryocytic differentiation of K562 cells. Racke FK, et al. **J Biol Chem** 1997 Sep 12;272(37):23366-70

Tumor necrosis factor alpha-induced E-selectin expression is activated by the nuclear factor-kappaB and c-JUN N-terminal kinase/p38 mitogen-activated protein kinase pathways. Read MA, et al. **J Biol Chem** 1997 Jan 31; 272(5):2753-61

Phosphorylation-dependent monoclonal Tau antibodies do not reliably report phosphorylation by extracellular signal-regulated kinase 2 at specific sites. Roder HM, et al. **J Biol Chem** 1997 Feb 14;272(7):4509-15

Peroxisome proliferators activate extracellular signal-regulated kinases in immortalized mouse liver cells. Rokos CL, et al. **J Biol Chem** 1997 May 16;272(20):13452-7

Box 3-independent signaling mechanisms are involved in leukemia inhibitory factor receptor alpha- and gp130-mediated stimulation of mitogen-activated protein kinase. Evidence for participation of multiple signaling pathways which converge at Ras. Schiemann WP, et al. **J Biol Chem** 1997 Jun 27;272(26):16631-6

MADD, a novel death domain protein that interacts with the type 1 tumor necrosis factor receptor and activates mitogen-activated protein kinase. Schievella AR, et al. **J Biol Chem** 1997 May 2;272(18):12069-75

Focal adhesion kinase overexpression enhances ras-dependent integrin signaling to ERK2/mitogen-activated protein kinase through interactions with and activation of c-Src. Schlaepfer DD, et al. **J Biol Chem** 1997 May 16;272(20):13189-95

Constitutively active mutant of the mitogen-activated protein kinase kinase MEK1 induces epithelial dedifferentiation and growth inhibition in madin-darby canine kidney-C7 cells. Schramek H, et al. **J Biol Chem** 1997 Apr 25; 272(17):11426-33

c-Jun NH2-terminal kinase-mediated activation of interleukin-1beta converting enzyme/CED-3-like protease during anticancer drug-induced apoptosis. Seimiya H, et al. **J Biol Chem** 1997 Feb 14;272(7):4631-6

Stimulation of the mitogen-activated protein kinase via the A2A-adenosine receptor in primary human endothelial cells. Sexl V, et al. **J Biol Chem** 1997 Feb 28;272(9):5792-9

Cardiotrophin 1 (CT-1) inhibition of cardiac myocyte apoptosis via a mitogen-activated protein kinase-dependent pathway. Divergence from downstream CT-1 signals for myocardial cell hypertrophy. Sheng Z, et al. **J Biol Chem** 1997 Feb 28;272(9):5783-91

TAK1 mediates the ceramide signaling to stress-activated protein kinase/c-Jun N-terminal kinase. Shirakabe K, et al. **J Biol Chem** 1997 Mar 28;272(13):8141-4

Cytosolic alkalinization increases stress-activated protein kinase/c-Jun NH2-terminal kinase (SAPK/JNK) activity and p38 mitogen-activated protein kinase activity by a calcium-independent mechanism. Shrode LD, et al. **J Biol Chem** 1997 May 23;272(21):13653-9

Association of a p95 Vav-containing signaling complex with the FcepsilonRI gamma chain in the RBL-2H3 mast cell line. Evidence for a constitutive in vivo association of Vav with Grb2, Raf-1, and ERK2 in an active complex. Song JS, et al. **J Biol Chem** 1996 Oct 25;271(43):26962-70

Stimulation of interleukin-8 production by okadaic acid and vanadate in a human promyelocyte cell line, an HL-60 subline. Possible role of mitogen-activated protein kinase on the okadaic acid-induced NF-kappaB activation. Sonoda Y, et al. **J Biol Chem** 1997 Jun 13;272(24):15366-72

Translocation of autophosphorylated calcium/calmodulin-dependent protein kinase II to the postsynaptic density. Strack S, et al. **J Biol Chem** 1997 May 23;272(21):13467-70

Angiotensin II stimulates mitogen-activated protein kinases and protein synthesis by a Ras-independent pathway in vascular smooth muscle cells. Takahashi T, et al. **J Biol Chem** 1997 Jun 20;272(25):16018-22

Leptin induces mitogen-activated protein kinase-dependent proliferation of C3H10T1/2 cells. Takahashi Y, et al. **J Biol Chem** 1997 May 16;272(20):12897-900

Stimulation of stress-activated protein kinase and p38 HOG1 kinase in murine keratinocytes following photodynamic therapy with benzoporphyrin derivative. Tao J, et al. **J Biol Chem** 1996 Oct 25;271(43):27107-15

Ras-dependent activation of c-Jun N-terminal kinase/stress-activated protein kinase in response to interleukin-3 stimulation in hematopoietic BaF3 cells. Terada K, et al. **J Biol Chem** 1997 Feb 14;272(7):4544-8

Signaling from the small GTP-binding proteins Rac1 and Cdc42 to the c-Jun N-terminal kinase/stress-activated protein kinase pathway. A role for mixed lineage kinase 3/protein-tyrosine kinase 1, a novel member of the mixed lineage kinase family. Teramoto H, et al. **J Biol Chem** 1996 Nov 1;271(44):27225-8

Tyrosine phosphorylation of the vav proto-oncogene product links FcepsilonRI to the Rac1-JNK pathway. Teramoto H, et al. **J Biol Chem** 1997 Apr 18; 272(16):10751-5

The small GTP-binding protein rho activates c-Jun N-terminal kinases/stress-activated protein kinases in human kidney 293T cells. Evidence for a Pak-independent signaling pathway. Teramoto H, et al. **J Biol Chem** 1996 Oct 18;271(42):25731-4

Protein kinase C activates the MEK-ERK pathway in a manner independent of Ras and dependent on Raf. Ueda Y, et al. **J Biol Chem** 1996 Sep 20;271(38):23512-9

Involvement of phosphatidylcholine-specific phospholipase C in platelet-derived growth factor-induced activation of the mitogen-activated protein kinase pathway in Rat-1 fibroblasts. van Dijk MC, et al. **J Biol Chem** 1997 Apr 25;272(17):11011-6

Parathyroid hormone activates mitogen-activated protein kinase via a cAMP-mediated pathway independent of Ras. Verheijen MH, et al. **J Biol Chem** 1997 Feb 7;272(6):3423-9

Activation of the hematopoietic progenitor kinase-1 (HPK1)-dependent, stress-activated c-Jun N-terminal kinase (JNK) pathway by transforming growth factor beta (TGF-beta)-activated kinase (TAK1), a kinase mediator of TGF beta signal transduction. Wang W, et al. **J Biol Chem** 1997 Sep 5;272(36):22771-5

Temporal activation of Ca2+-calmodulin-sensitive protein kinase type II is obligate for adipogenesis. Wang Hy, et al. **J Biol Chem** 1997 Jan 17;272(3):1817-21

Lactogenic hormone activation of Stat5 and transcription of the beta-casein gene in mammary epithelial cells is independent of p42 ERK2 mitogen-activated protein kinase activity. Wartmann M, et al. **J Biol Chem** 1996 Dec 13; 271(50):31863-8

Ablation of Goalpha overrides G1 restriction point control through Ras/ERK/cyclin D1-CDK activities. Weber JD, et al. **J Biol Chem** 1997 Jul 11;272(28):17320-6

Phosphorylation and inhibition of type III adenylyl cyclase by calmodulin-dependent protein kinase II in vivo. Wei J, et al. **J Biol Chem** 1996 Sep 27;271(39):24231-5

Activation of transcription factor NF-kappaB and p38 mitogen-activated protein kinase is mediated by distinct and separate stress effector pathways. Wesselborg S, et al. **J Biol Chem** 1997 May 9;272(19):12422-9

Stimulated mitogen-activated protein kinase is necessary but not sufficient for the mitogenic response to angiotensin II. A role for phospholipase D. Wilkie N, et al. **J Biol Chem** 1996 Dec 13;271(50):32447-53

TRANCE is a novel ligand of the tumor necrosis factor receptor family that activates c-Jun N-terminal kinase in T cells. Wong BR, et al. **J Biol Chem** 1997 Oct 3; 272(40):25190-4

Glial cell line-derived neurotrophic factor signals through the RET receptor and activates mitogen-activated protein kinase. Worby CA, et al. **J Biol Chem** 1996 Sep 27; 271(39):23619-22

C-terminal mutation of G protein beta subunit affects differentially extracellular signal-regulated kinase and c-Jun N-terminal kinase pathways in human embryonal kidney 293 cells. Yamauchi J, et al. **J Biol Chem** 1997 Mar 21;272(12):7602-7

RGS4 inhibits Gq-mediated activation of mitogen-activated protein kinase and phosphoinositide synthesis. Yan Y, et al. **J Biol Chem** 1997 May 2;272(18):11924-7

Specific activation of a c-Jun NH2-terminal kinase isoform and induction of neurite outgrowth in PC-12 cells by staurosporine. Yao R, et al. **J Biol Chem** 1997 Jul 18; 272(29):18261-6

Tissue-specific pattern of stress kinase activation in ischemic/reperfused heart and kidney. Yin T, et al. **J Biol Chem** 1997 Aug 8;272(32):19943-50

Activation of a novel calcium-dependent protein-tyrosine kinase. Correlation with c-Jun N-terminal kinase but not mitogen-activated protein kinase activation. Yu H, et al. **J Biol Chem** 1996 Nov 22;271(47):29993-8

Insulin- and mitogen-activated protein kinase-mediated phosphorylation and activation of peroxisome proliferator-activated receptor gamma. Zhang B, et al. **J Biol Chem** 1996 Dec 13;271(50):31771-4

Mitogen-activated protein (MAP) kinase regulates production of tumor necrosis factor-alpha and release of arachidonic acid in mast cells. Indications of communication between p38 and p42 MAP kinases. Zhang C, et al. **J Biol Chem** 1997 May 16;272(20):13397-402

Protein kinase C, but not tyrosine kinases or Ras, plays a critical role in angiotensin II-induced activation of Raf-1 kinase and extracellular signal-regulated protein kinases in cardiac myocytes. Zou Y, et al. **J Biol Chem** 1996 Dec 27;271(52):33592-7

Critical role of calcium- dependent epidermal growth factor receptor transactivation in PC12 cell membrane depolarization and bradykinin signaling. Zwick E, et al. **J Biol Chem** 1997 Oct 3;272(40):24767-70

Transport of CaM kinase along processes elicited by neuronal contact evokes an inhibition of arborization and outgrowth in D. melanogaster cultured neurons. Broughton SJ, et al. **J Cell Biochem** 1996 Sep 15;62(4):484-94

Heat stress induces tyrosine phosphorylation/activation of kinase FA/GSK-3 alpha (a human carcinoma dedifferentiation modulator) in A431 cells. Yang SD, et al. **J Cell Biochem** 1997 Jul 1;66(1):16-26

A role for Jun-N-terminal kinase in anoikis; suppression by bcl-2 and crmA. Frisch SM, et al. **J Cell Biol** 1996 Dec; 135(5):1377-82

Regulation of cell motility by mitogen-activated protein kinase. Klemke RL, et al. **J Cell Biol** 1997 Apr 21; 137(2):481-92

Integrin-mediated activation of MAP kinase is independent of FAK: evidence for dual integrin signaling pathways in fibroblasts. Lin TH, et al. **J Cell Biol** 1997 Mar 24; 136(6):1385-95

Angiotensin II regulation of neuromodulation: downstream signaling mechanism from activation of mitogen-activated protein kinase. Lu D, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1609-17

Regulated membrane localization of Tiam1, mediated by the NH2-terminal pleckstrin homology domain, is required for Rac-dependent membrane ruffling and C-Jun NH2-terminal kinase activation. Michiels F, et al. **J Cell Biol** 1997 Apr 21;137(2):387-98

Integrins can collaborate with growth factors for phosphorylation of receptor tyrosine kinases and MAP kinase activation: roles of integrin aggregation and occupancy of receptors. Miyamoto S, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1633-42

Activation of an MAP kinase cascade leads to Sir3p hyperphosphorylation and strengthens transcriptional silencing. Stone EM, et al. **J Cell Biol** 1996 Nov; 135(3):571-83

Mechanisms of inhibition by heparin of PDGF stimulated MAP kinase activation in vascular smooth muscle cells. Pukac LA, et al. **J Cell Physiol** 1997 Jul;172(1):69-78

Inhibition of neutrophil oxidative burst and granule secretion by wortmannin: potential role of MAP kinase and renaturable kinases. Sue-A-Quan AK, et al. **J Cell Physiol** 1997 Jul;172(1):94-108

Reversible tyrosine phosphorylation/dephosphorylation of proline-directed protein kinase FA/glycogen synthase kinase-3alpha in A431 cells. Yu JS, et al. **J Cell Physiol** 1997 Apr;171(1):95-103

MAP kinase does not inactivate, but rather prevents the cyclin degradation pathway from being turned on in Xenopus egg extracts. Abrieu A, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):239-46

Regulation of actin filament dynamics by p38 map kinase-mediated phosphorylation of heat shock protein 27. Guay J, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):357-68

Cycloheximide-induced activation of mouse eggs: effects on cdc2/cyclin B and MAP kinase activities. Moos J, et al. **J Cell Sci** 1996 Apr;109 (Pt 4):739-48

Cytosolic phospholipase A2 is activated by the hepatocyte growth factor receptor-kinase in Madin Darby canine kidney cells. Skouteris GG, et al. **J Cell Sci** 1997 Jul;110 (Pt 14):1655-63

The fission yeast sts5+ gene is required for maintenance of growth polarity and functionally interacts with protein kinase C and an osmosensing MAP-kinase pathway. Toda T, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2331-42

Cellular phosphorylation of tau by GSK-3 beta influences tau binding to microtubules and microtubule organisation. Wagner U, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1537-43

Fluoride at mitogenic doses induces a sustained activation of p44mapk, but not p42mapk, in human TE85 osteosarcoma cells. Wu LW, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1126-35

Exercise stimulates the mitogen-activated protein kinase pathway in human skeletal muscle. Aronson D, et al. **J Clin Invest** 1997 Mar 15;99(6):1251-7

The inhibition of vascular smooth muscle cell migration by peptide and antibody antagonists of the alphavbeta3 integrin complex is reversed by activated calcium/calmodulin- dependent protein kinase II. Bilato C, et al. **J Clin Invest** 1997 Aug 1;100(3):693-704

Activation of extracellular signal-regulated kinase in proliferative glomerulonephritis in rats. Bokemeyer D, et al. **J Clin Invest** 1997 Aug 1;100(3):582-8

Selective activation of the mitogen-activated protein kinase subgroups c-Jun NH2 terminal kinase and p38 by IL-1 and TNF in human articular chondrocytes. Geng Y, et al. **J Clin Invest** 1996 Nov 15;98(10):2425-30

Cytosolic domain of the type I interleukin-1 receptor spontaneously recruits signaling molecules to activate a proinflammatory gene. Singh R, et al. **J Clin Invest** 1997 Jul 15;100(2):419-28

Mitogen-activated protein kinase (ERK1/2) activation by shear stress and adhesion in endothelial cells. Essential role for a herbimycin-sensitive kinase. Takahashi M, et al. **J Clin Invest** 1996 Dec 1;98(11):2623-31

Extracellular simian virus 40 induces an ERK/MAP kinase-independent signalling pathway that activates primary response genes and promotes virus entry. Dangoria NS, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2173-82

Endothelial calcium-calmodulin dependent nitric oxide synthase in the in vitro vascular hyporeactivity of portal hypertensive rats. Gadano AC, et al. **J Hepatol** 1997 Mar; 26(3):678-86

Activation of Ras and mitogen-activated protein kinase pathway by terminal complement complexes is G protein dependent. Niculescu F, et al. **J Immunol** 1997 May 1; 158(9):4405-12

Activation of the mitogen-activated protein kinase cascade is suppressed by low concentrations of dexamethasone in

mast cells. Rider LG, et al. **J Immunol** 1996 Sep 15; 157(6):2374–80

Fc gamma receptor cross-linking activates p42, p38, and JNK/SAPK mitogen–activated protein kinases in murine macrophages: role for p42MAPK in Fc gamma receptor–stimulated TNF–alpha synthesis. Rose DM, et al. **J Immunol** 1997 Apr 1;158(7):3433–8

Differential activation of the ERK, JNK, and p38 mitogen–activated protein kinases by CD40 and the B cell antigen receptor. Sutherland CL, et al. **J Immunol** 1996 Oct 15;157(8):3381–90

Antigen activation of mitogen–activated protein kinase in mast cells through protein kinase C–dependent and independent pathways. Zhang C, et al. **J Immunol** 1997 May 15;158(10):4968–75

Differential activation of extracellular signal–regulated kinase (ERK) 1, ERK2, p38, and c–Jun NH2–terminal kinase mitogen–activated protein kinases by bacterial peptidoglycan. Dziarski R, et al. **J Infect Dis** 1996 Oct; 174(4):777–85

Identification of phosphoproteins specific to granulocyte colony–stimulating factor–mediated signaling using 2D–SDS–PAGE. Csar XF, et al. **J Interferon Cytokine Res** 1997 Feb;17(2):77–86

Activation of Raf–mitogen–activated protein kinase signaling pathway by 1,25–dihydroxyvitamin D3 in normal human keratinocytes. Gniadecki R. **J Invest Dermatol** 1996 Jun; 106(6):1212–7

Platelet–activating factor and somatostatin activate mitogen–activated protein kinase (MAP kinase) and arachidonate release. Shimizu T, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):103–8 (22 ref.)

Role of lactosylceramide and MAP kinase in the proliferation of proximal tubular cells in human polycystic kidney disease. Chatterjee S, et al. **J Lipid Res** 1996 Jun; 37(6):1334–44

Phosphorylation of tyrosine 182 of p38 mitogen–activated protein kinase correlates with the protection of preconditioning in the rabbit heart. Weinbrenner C, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2383–91

Ontogeny of sarcoplasmic reticulum protein phosphorylation by Ca2+—calmodulin–dependent protein kinase. Xu A, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):405–18

Transcription factor AP–1 regulation by mitogen–activated protein kinase signal transduction pathways. Whitmarsh AJ, et al. **J Mol Med** 1996 Oct;74(10):589–607 (234 ref.)

The Ca2+/calmodulin–dependent protein kinase II–associated protein complex isolated from chicken retina. Liu N, et al. **J Mol Neurosci** 1996 Spring;7(1):1–12

CR16, a novel proline–rich protein expressed in rat brain neurons, binds to SH3 domains and is a MAP kinase substrate. Weiler MC, et al. **J Mol Neurosci** 1996 Fall; 7(3):203–15

Ornithine decarboxylase overexpression in mouse 10T1/2 fibroblasts: cellular transformation and invasion [see comments] Kubota S, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):567–71. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):533–7.

Phosphorylation of neurofilament heavy–chain side–arm fragments by cyclin–dependent kinase–5 and glycogen synthase kinase–3alpha in transfected cells. Bajaj NP, et al. **J Neurochem** 1997 Aug;69(2):737–43

Potassium chloride pulse enhances mitogen–activated protein kinase activity in rat hippocampal slices. Baron C, et al. **J Neurochem** 1996 Mar;66(3):1005–10

Activation of mitogen–activated protein kinases in oligodendrocytes. Bhat NR, et al. **J Neurochem** 1996 May; 66(5):1986–94

Tyrosine kinases are required for catecholamine secretion and mitogen–activated protein kinase activation in bovine adrenal chromaffin cells. Cox ME, et al. **J Neurochem** 1996 Mar;66(3):1103–12

Roles for protein kinase C and mitogen–activated protein kinase in nicotine–induced secretion from bovine adrenal chromaffin cells. Cox ME, et al. **J Neurochem** 1997 Sep; 69(3):1119–30

Neuronal nitric oxide synthase and calmodulin–dependent protein kinase IIalpha undergo neurotoxin–induced proteolysis. Hajimohammadreza I, et al. **J Neurochem** 1997 Sep;69(3):1006–13

Okadaic acid induces hyperphosphorylation of tau independently of mitogen–activated protein kinase activation. Ho DT, et al. **J Neurochem** 1997 Jan; 68(1):106–11

Calcium/calmodulin–dependent kinase II phosphorylates Drosophila visual arrestin. Kahn ES, et al. **J Neurochem** 1997 Jan;68(1):169–75

Subcellular translocation of Ca2+/calmodulin–dependent protein kinase II: fact or artifact? [letter; comment] Margrie TW, et al. **J Neurochem** 1997 Jul;69(1):435–7. Comment on: J Neurochem 1994 Oct;63(4):1529–37.

Melatonin synthesis in the bovine pineal gland is regulated by type II cyclic AMP–dependent protein kinase. Maronde E, et al. **J Neurochem** 1997 Feb;68(2):770–7

Tyrosine phosphorylation of extracellular signal–regulated protein kinase 4 in response to growth factors. Peng X, et al. **J Neurochem** 1996 Mar;66(3):1191–7

Reactivating kinase/p38 phosphorylates tau protein in vitro. Reynolds CH, et al. **J Neurochem** 1997 Jul;69(1):191–8

Differential inactivation of postsynaptic density–associated and soluble Ca2+/calmodulin–dependent protein kinase II by protein phosphatases 1 and 2A. Strack S, et al. **J Neurochem** 1997 May;68(5):2119–28

Ganglioside GM1 activates the mitogen–activated protein kinase Erk2 and p70 S6 kinase in U–1242 MG human glioma cells. Van Brocklyn JR, et al. **J Neurochem** 1997 Jul;69(1):116–25

Comparison between the timing of JNK activation, c–Jun phosphorylation, and onset of death commitment in sympathetic neurones. Virdee K, et al. **J Neurochem** 1997 Aug;69(2):550–61

Distribution, levels, and activity of glycogen synthase kinase–3 in the Alzheimer disease brain. Pei JJ, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):70–8

Differential and time–dependent changes in gene expression for type II calcium/calmodulin–dependent protein kinase, 67 kDa glutamic acid decarboxylase, and glutamate receptor subunits in tetanus toxin–induced focal epilepsy. Liang F, et al. **J Neurosci** 1997 Mar 15;17(6):2168–80

Visualization of the distribution of autophosphorylated calcium/calmodulin–dependent protein kinase II after tetanic stimulation in the CA1 area of the hippocampus. Ouyang Y, et al. **J Neurosci** 1997 Jul 15;17(14):5416–27

Frequency–dependent inactivation of mammalian A–type K+ channel KV1.4 regulated by Ca2+/calmodulin–dependent protein kinase. Roeper J, et al. **J Neurosci** 1997 May 15;17(10):3379–91

Glutamate, but not dopamine, stimulates stress–activated protein kinase and AP–1–mediated transcription in striatal neurons. Schwarzschild MA, et al. **J Neurosci** 1997 May 15;17(10):3455–66

Pituitary adenylate cyclase–activating polypeptide (PACAP–38) protects cerebellar granule neurons from apoptosis by activating the mitogen–activated protein kinase (MAP kinase) pathway. Villalba M, et al. **J Neurosci** 1997 Jan 1;17(1):83–90

Activation of C–jun N–terminal kinase/stress–activated protein kinase in primary glial cultures. Zhang P, et al. **J Neurosci Res** 1996 Oct 1;46(1):114–21

Involvement of phospholipase C–gamma2 in activation of mitogen–activated protein kinase and phospholipase A2 by zooxanthellatoxin–A in rabbit platelets. Rho MC, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):496–504

Kinetic model for phototransduction and G–protein enzyme cascade: understanding quantal bumps during inhibition of CaM–KII or PP2B. Kass L, et al. **J Photochem Photobiol B** 1996 Aug;35(1–2):105–13

Activation of MAP kinases and phosphorylation of caldesmon in canine colonic smooth muscle. Gerthoffer WT, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):597–609

The effect of Ca(2+)–calmodulin–dependent protein kinase II on cardiac excitation–contraction coupling in ferret ventricular myocytes. Li L, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):17–31

The regulation of p42/p44 mitogen–activated protein kinases in the injured rat carotid artery. Lille S, et al. **J Surg Res** 1997 Jul 1;70(2):178–86

Mitogen–activated protein kinase activation: an alternate signaling pathway for sustained vascular smooth muscle contraction. Epstein AM, et al. **J Vasc Surg** 1997 Aug; 26(2):327–32

Adenovirus infection stimulates the Raf/MAPK signaling pathway and induces interleukin–8 expression. Bruder JT, et al. **J Virol** 1997 Jan;71(1):398–404

Association of ERK2 mitogen–activated protein kinase with human immunodeficiency virus particles. Cartier C, et al. **J Virol** 1997 Jun;71(6):4832–7

The Epstein–Barr virus–induced Ca2+/calmodulin–dependent kinase type IV/Gr promotes a Ca(2+)–dependent switch from latency to viral replication. Chatila T, et al. **J Virol** 1997 Sep;71(9):6560–7

Human immunodeficiency virus type 1 Nef binds directly to Lck and mitogen–activated protein kinase, inhibiting kinase activity. Greenway A, et al. **J Virol** 1996 Oct; 70(10):6701–8

Epstein–Barr virus latent membrane protein 2 associates with and is a substrate for mitogen–activated protein kinase. Panousis CG, et al. **J Virol** 1997 Jun;71(6):4752–60

Endothelin–1 activates c–Jun NH2–terminal kinase in mesangial cells. Araki S, et al. **Kidney Int** 1997 Mar; 51(3):631–9

Mitogen–activated protein kinase and mitogen–activated kinase phosphatase–1 expression in the Noble rat model of sex hormone–induced prostatic dysplasia and carcinoma. Leav I, et al. **Lab Invest** 1996 Sep;75(3):361–70

Activation of mitogen–activated protein kinase in freshly isolated rat hepatocytes by both a calcium– and a protein kinase C–dependent pathway. Romanelli A, et al. **Metabolism** 1997 May;46(5):548–55

Enhanced mitogen–activated protein kinase activity and phosphorylation of the Na+/H+ exchanger isoform–1 of human lymphoblasts in hypertension. Sweeney FP, et al. **Metabolism** 1997 Mar;46(3):297–302

Mitogen–activated protein kinase activation down–regulates a mechanism that inactivates cyclin B–cdc2 kinase in G2–arrested oocytes. Abrieu A, et al. **Mol Biol Cell** 1997 Feb;8(2):249–61

Phosphoinositides and phosphoinositide–utilizing enzymes in detergent–insoluble lipid domains. Hope HR, et al. **Mol Biol Cell** 1996 Jun;7(6):843–51

The pool of map kinase associated with microtubules is small but constitutively active. Morishima–Kawashima M, et al. **Mol Biol Cell** 1996 Jun;7(6):893–905

Dissociation of mitogen–activated protein kinase activation from p125 focal adhesion kinase tyrosine phosphorylation in Swiss 3T3 cells stimulated by bombesin, lysophosphatidic acid, and platelet–derived growth factor. Seufferlein T, et al. **Mol Biol Cell** 1996 Dec;7(12):1865–75

Changes in jun N–terminal kinase activation by stress during aging of cultured normal human fibroblasts. Adler V, et al. **Mol Carcinog** 1996 Sep;17(1):8–12

Minimally modified low density lipoproteins induce aortic smooth muscle cell proliferation via the activation of mitogen activated protein kinase. Balagopalakrishna C, et al. **Mol Cell Biochem** 1997 May;170(1–2):85–9

Differential effect of glucose deprivation on MAPK activation in drug sensitive human breast carcinoma MCF–7 and multidrug resistant MCF–7/ADR cells. Gupta AK, et al. **Mol Cell Biochem** 1997 May;170(1–2):23–30

Glycogen synthase kinase 3 phosphorylation of different residues in the presence of different factors: analysis on tau protein. Moreno FJ, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):47–54

Vanadium salts stimulate mitogen–activated protein (MAP) kinases and ribosomal S6 kinases. Pandey SK, et al. **Mol Cell Biochem** 1995 Dec 6–20;153(1–2):69–78

Potentiation of GSK–3–catalyzed Alzheimer–like phosphorylation of human tau by cdk5. Sengupta A, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):99–105

Protein kinase C and calcium/calmodulin–dependent protein kinase II phosphorylate three–repeat and four–repeat tau isoforms at different rates. Singh TJ, et al. **Mol Cell Biochem** 1997 Mar;168(1–2):141–8

Delayed cardioprotection is associated with the sub–cellular relocalisation of ventricular protein kinase C epsilon, but not p42/44MAPK. Wilson S, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:225–30

Identification of the mitogen–activated protein kinase phosphorylation sites on human Sos1 that regulate interaction with Grb2. Corbalan–Garcia S, et al. **Mol Cell Biol** 1996 Oct;16(10):5674–82

Discrete roles of the Spc1 kinase and the Atf1 transcription factor in the UV response of Schizosaccharomyces pombe. Degols G, et al. **Mol Cell Biol** 1997 Jun;17(6):3356–63

The Saccharomyces cerevisiae MADS–box transcription factor Rlm1 is a target for the Mpk1 mitogen–activated protein kinase pathway. Dodou E, et al. **Mol Cell Biol** 1997 Apr;17(4):1848–59

Mitogen–activated protein kinase activation is not necessary for, but antagonizes, 3T3–L1 adipocytic differentiation. Font de Mora J, et al. **Mol Cell Biol** 1997 Oct; 17(10):6068–75

Synergy between the Mos/mitogen–activated protein kinase pathway and loss of p53 function in transformation and chromosome instability. Fukasawa K, et al. **Mol Cell Biol** 1997 Jan;17(1):506–18

Ribotoxic stress response: activation of the stress–activated protein kinase JNK1 by inhibitors of the peptidyl transferase reaction and by sequence–specific RNA damage to the alpha–sarcin/ricin loop in the 28S rRNA. Iordanov MS, et al. **Mol Cell Biol** 1997 Jun;17(6):3373–81

Fas activation of the p38 mitogen–activated protein kinase signalling pathway requires ICE/CED–3 family proteases [published erratum appears in Mol Cell Biol 1997 Mar;17(3):1757] Juo P, et al. **Mol Cell Biol** 1997 Jan; 17(1):24–35

Phosphatidylinositol 3–kinase is required for integrin–stimulated AKT and Raf–1/mitogen–activated protein kinase pathway activation. King WG, et al. **Mol Cell Biol** 1997 Aug;17(8):4406–18

Involvement of the protein tyrosine phosphatase SHP–1 in Ras–mediated activation of the mitogen–activated protein kinase pathway. Krautwald S, et al. **Mol Cell Biol** 1996 Nov;16(11):5955–63

Lack of a role for Jun kinase and AP–1 in Fas–induced apoptosis. Lenczowski JM, et al. **Mol Cell Biol** 1997 Jan; 17(1):170–81

The Ras–JNK pathway is involved in shear–induced gene expression. Li YS, et al. **Mol Cell Biol** 1996 Nov; 16(11):5947–54

Phosphatidylinositol 3–kinase mediates epidermal growth factor–induced activation of the c–Jun N–terminal kinase signaling pathway. Logan SK, et al. **Mol Cell Biol** 1997 Oct;17(10):5784–90

3pK, a novel mitogen–activated protein (MAP) kinase–activated protein kinase, is targeted by three MAP kinase pathways. Ludwig S, et al. **Mol Cell Biol** 1996 Dec; 16(12):6687–97

Rapid phosphorylation of Ets–2 accompanies mitogen–activated protein kinase activation and the induction of heparin–binding epidermal growth factor gene expression by oncogenic Raf–1. McCarthy SA, et al. **Mol Cell Biol** 1997 May;17(5):2401–12

Increased expression of the Ras suppressor Rsu–1 enhances Erk–2 activation and inhibits Jun kinase activation. Masuelli L, et al. **Mol Cell Biol** 1996 Oct;16(10):5466–76

Regulation of microtubule dynamics by Ca2+/calmodulin–dependent kinase IV/Gr–dependent phosphorylation of oncoprotein 18. Melander Gradin H, et al. **Mol Cell Biol** 1997 Jun;17(6):3459–67

Stimulation of C2C12 myoblast growth by basic fibroblast growth factor and insulin–like growth factor 1 can occur via mitogen–activated protein kinase–dependent and –independent pathways. Milasincic DJ, et al. **Mol Cell Biol** 1996 Nov;16(11):5964–73

Tyrosine 763 of the murine granulocyte colony–stimulating

factor receptor mediates Ras-dependent activation of the JNK/SAPK mitogen-activated protein kinase pathway. Rausch O, et al. **Mol Cell Biol** 1997 Mar;17(3):1170-9

Control of thrombopoietin-induced megakaryocytic differentiation by the mitogen-activated protein kinase pathway. Rouyez MC, et al. **Mol Cell Biol** 1997 Sep; 17(9):4991-5000

Destabilization of Raf-1 by geldanamycin leads to disruption of the Raf-1-MEK-mitogen-activated protein kinase signalling pathway. Schulte TW, et al. **Mol Cell Biol** 1996 Oct;16(10):5839-45

Beta interferon and oncostatin M activate Raf-1 and mitogen-activated protein kinase through a JAK1-dependent pathway. Stancato LF, et al. **Mol Cell Biol** 1997 Jul;17(7):3833-40

Voltage-insensitive Ca2+ channels and Ca2+/calmodulin-dependent protein kinases propagate signals from endothelin-1 receptors to the c-fos promoter. Wang Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5915-23

Regulation of type I adenylyl cyclase by calmodulin kinase IV in vivo. Wayman GA, et al. **Mol Cell Biol** 1996 Nov; 16(11):6075-82

Role of p38 and JNK mitogen-activated protein kinases in the activation of ternary complex factors. Whitmarsh AJ, et al. **Mol Cell Biol** 1997 May;17(5):2360-71

The level of intracellular glutathione is a key regulator for the induction of stress-activated signal transduction pathways including Jun N-terminal protein kinases and p38 kinase by alkylating agents. Wilhelm D, et al. **Mol Cell Biol** 1997 Aug;17(8):4792-800

Regulation of the Saccharomyces cerevisiae HOG1 mitogen-activated protein kinase by the PTP2 and PTP3 protein tyrosine phosphatases. Wurgler-Murphy SM, et al. **Mol Cell Biol** 1997 Mar;17(3):1289-97

Ca2+/calmodulin kinase types II and IV regulate c-fos transcription in the AtT20 corticotroph cell line. Antoine M, et al. **Mol Cell Endocrinol** 1996 Jun 18;120(1):1-8

Functional expression of bombesin receptor in most adult and pediatric human glioblastoma cell lines; role in mitogenesis and in stimulating the mitogen-activated protein kinase pathway. Sharif TR, et al. **Mol Cell Endocrinol** 1997 Jun 20;130(1-2):119-30

Glycogen synthase kinase 3 alteration in Alzheimer disease is related to neurofibrillary tangle formation. Baum L, et al. **Mol Chem Neuropathol** 1996 Oct-Dec;29(2-3):253-61

Defective survival and activation of thymocytes in transgenic mice expressing a catalytically inactive form of Ca2+/calmodulin-dependent protein kinase IV. Anderson KA, et al. **Mol Endocrinol** 1997 Jun;11(6):725-37

Insulin-induced mitogen-activated protein (MAP) kinase phosphatase-1 (MKP-1) attenuates insulin-stimulated MAP kinase activity: a mechanism for the feedback inhibition of insulin signaling. Kusari AB, et al. **Mol Endocrinol** 1997 Sep;11(10):1532-43

Ligation of membrane IgM stimulates a novel c-Jun amino-terminal domain kinase activity in Daudi human B cells. Li X, et al. **Mol Immunol** 1997 Apr;34(5):409-18

Lipopolysaccharide signals activation of tumor necrosis factor biosynthesis through the ras/raf-1/MEK/MAPK pathway. Geppert TD, et al. **Mol Med** 1994 Nov; 1(1):93-103

Characterization of a mitogen-activated protein (MAP) kinase from Plasmodium falciparum. Graeser R, et al. **Mol Microbiol** 1997 Jan;23(1):151-9

Involvement of mitogen-activated protein kinase and translocation of cytosolic phospholipase A2 to the nuclear envelope in acetylcholine-induced prostacyclin synthesis in rabbit coronary endothelial cells. Kan H, et al. **Mol Pharmacol** 1996 Nov;50(5):1139-47

The stimulatory effect of opioids on mitogen-activated protein kinase in Chinese hamster ovary cells transfected to express mu-opioid receptors. Li LY, et al. **Mol Pharmacol** 1996 Sep;50(3):599-602

The growth-promoting effect of low-density lipoprotein may Be mediated by a pertussis toxin-sensitive mitogen-activated protein kinase pathway. Sachinidis A, et al. **Mol Pharmacol** 1997 Sep;52(3):389-97

Mitogen-activated protein kinase activity during goat oocyte maturation and the acquisition of meiotic competence. Dedieu T, et al. **Mol Reprod Dev** 1996 Nov;45(3):351-8

Ribosomal S6 kinase p90rsk and mRNA cap-binding protein eIF4E phosphorylations correlate with MAP kinase activation during meiotic reinitiation of mouse oocytes. Gavin AC, et al. **Mol Reprod Dev** 1997 Mar;46(3):383-91

Mechanosensors in plants [letter] Bögre L, et al. **Nature** 1996 Oct 10;383(6600):489-90

A role for Pyk2 and Src in linking G-protein-coupled receptors with MAP kinase activation. Dikic I, et al. **Nature** 1996 Oct 10;383(6600):547-50

Activation of the transcription factor MEF2C by the MAP kinase p38 in inflammation. Han J, et al. **Nature** 1997 Mar 20;386(6622):296-9

CaM kinase II in long-term potentiation. Fukunaga K, et al. **Neurochem Int** 1996 Apr;28(4):343-58 (151 ref.)

Tumor necrosis factor-alpha and interleukin-1 induce activation of MAP kinase and SAP kinase in human neuroma fibroblasts. Lu G, et al. **Neurochem Int** 1997 Apr-May;30(4-5):401-10

Modulation of glutamate receptors by calcium/calmodulin-dependent protein kinase II. Soderling TR. **Neurochem Int** 1996 Apr;28(4):359-61 (27 ref.)

Ca(2+)-independent autophosphorylation of postsynaptic density-associated Ca2+/calmodulin-dependent protein kinase. Dosemeci A, et al. **Neurochem Res** 1997 Sep; 22(9):1151-7

MAP kinase translocates into the nucleus of the presynaptic cell and is required for long-term facilitation in Aplysia. Martin KC, et al. **Neuron** 1997 Jun;18(6):899-912

Effect of increased glycogen synthase kinase-3 activity upon the maturation of the amyloid precursor protein in transfected cells. Aplin AE, et al. **Neuroreport** 1997 Feb 10;8(3):639-43

Ca2+/calmodulin-dependent kinase II immunoreactivity in the rat hypothalamus. Hallbeck M, et al. **Neuroreport** 1996 Aug 12;7(12):1957-60

Imaging of Ca2+/calmodulin-dependent protein kinase II activity in hippocampal neurones. Higashi H, et al. **Neuroreport** 1996 Nov 4;7(15-17):2695-700

Oleic acid enhances ACh receptor currents by activation of Ca2+/calmodulin-dependent protein kinase II. Nishizaki T, et al. **Neuroreport** 1997 Feb 10;8(3):597-601

Reduced CaMKII-positive neurones in the accumbens shell of an animal model of attention-deficit hyperactivity disorder. Papa M, et al. **Neuroreport** 1996 Nov 25; 7(18):3017-20

Brain ischaemia transiently activates Ca2+/calmodulin-independent protein kinase II. Zalewska T, et al. **Neuroreport** 1996 Jan 31;7(2):637-41

H7, an inhibitor of protein kinase C, prevents serum-induced phosphorylation of Raf and MAP kinase in neuroblastoma cells. Cabedo H, et al. **Neurosci Lett** 1996 Aug 16; 214(1):13-6

Repetitive applications of ATP potentiate potassium current by Ca2+/calmodulin kinase in cultured rat hippocampal neurons. Ikeuchi Y, et al. **Neurosci Lett** 1996 Jan 19; 203(2):115-8

Distribution of Ca2+/calmodulin-dependent protein kinase kinase alpha in the rat central nervous system: an immunohistochemical study. Nakamura Y, et al. **Neurosci Lett** 1996 Feb 2;204(1-2):61-4

Phosphorylation of tau by glycogen synthase kinase-3 beta in intact mammalian cells: the effects on the organization and stability of microtubules. Lovestone S, et al. **Neuroscience** 1996 Aug;73(4):1145-57

p21Ras activation by the guanine nucleotide exchange factor Sos, requires the Sos/Grb2 interaction and a second ligand-dependent signal involving the Sos N-terminus. Byrne JL, et al. **Oncogene** 1996 Nov 21;13(10):2055-65

CD95 (APO-1/Fas) induces activation of SAP kinases downstream of ICE-like proteases. Cahill MA, et al. **Oncogene** 1996 Nov 21;13(10):2087-96

Bombesin and neuromedin B stimulate the activation of p42(mapk) and p74(raf-1) via a protein kinase C-independent pathway in Rat-1 cells. Charlesworth A, et al. **Oncogene** 1997 May 15;14(19):2323-9

Dexamethasone induces apoptosis of multiple myeloma cells in a JNK/SAP kinase independent mechanism. Chauhan D, et al. **Oncogene** 1997 Aug 14;15(7):837-43

Disruption of the erp/mkp-1 gene does not affect mouse development: normal MAP kinase activity in ERP/MKP-1-deficient fibroblasts. Dorfman K, et al. **Oncogene** 1996 Sep 5;13(5):925-31

Phosphorylation-dependent targeting of c-Jun ubiquitination by Jun N-kinase. Fuchs SY, et al. **Oncogene** 1996 Oct 3; 13(7):1531-5

Evidence for MEK-independent pathways regulating the prolonged activation of the ERK-MAP kinases. Grammer TC, et al. **Oncogene** 1997 Apr 10;14(14):1635-42

Induction of p27Kip1 degradation and anchorage independence by Ras through the MAP kinase signaling pathway. Kawada M, et al. **Oncogene** 1997 Aug 7; 15(6):629-37

Raf/MAPK and rapamycin-sensitive pathways mediate the anti-apoptotic function of p21Ras in IL-3-dependent hematopoietic cells. Kinoshita T, et al. **Oncogene** 1997 Aug 7;15(6):619-27

Elevated urokinase-type plasminogen activator receptor expression in a colon cancer cell line is due to a constitutively activated extracellular signal-regulated kinase-1-dependent signaling cascade. Lengyel E, et al. **Oncogene** 1997 May 29;14(21):2563-73

BCL-6 is phosphorylated at multiple sites in its serine- and proline-clustered region by mitogen-activated protein kinase (MAPK) in vivo. Moriyama M, et al. **Oncogene** 1997 May 22;14(20):2465-74

Phosphorylation and high level expression of Fra-2 in v-src transformed cells: a pathway of activation of endogenous AP-1. Murakami M, et al. **Oncogene** 1997 May 22; 14(20):2435-44

The 96 kDa protein kinase activated by oncogenic Ras in Xenopus egg extracts is also activated by constitutively active Mek: activation requires serine/threonine phosphorylation. Pan BT, et al. **Oncogene** 1997 Apr 10; 14(14):1653-60

Activation of JNK/SAPK pathway is not directly inhibitory for cell cycle progression in NIH3T3 cells. Shu J, et al. **Oncogene** 1996 Dec 5;13(11):2421-30

A novel human SPS1/STE20 homologue, KHS, activates Jun N-terminal kinase. Tung RM, et al. **Oncogene** 1997 Feb 13;14(6):653-9

Cell scattering of SK-N-MC neuroepithelioma cells in response to Ret and FGF receptor tyrosine kinase activation is correlated with sustained ERK2 activation. van Puijenbroek AA, et al. **Oncogene** 1997 Mar 13; 14(10):1147-57

Activation of signal transduction kinases by tamoxifen. Duh JL, et al. **Pharm Res** 1997 Feb;14(2):186-9

Salicylic acid activates a 48-kD MAP kinase in tobacco. Zhang S, et al. **Plant Cell** 1997 May;9(5):809-24

L-selectin activates the Ras pathway via the tyrosine kinase p56lck. Brenner B, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15376-81

p21-activated kinase has substrate specificity similar to Acanthamoeba myosin I heavy chain kinase and activates Acanthamoeba myosin I. Brzeska H, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1092-5

Activation of the c-Jun N-terminal kinase pathway by a novel protein kinase related to human germinal center kinase. Diener K, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9687-92

Phosphorylation of insulin receptor substrate 1 by glycogen synthase kinase 3 impairs insulin action. Eldar-Finkelman H, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9660-4

Expression and characterization of glycogen synthase kinase-3 mutants and their effect on glycogen synthase activity in intact cells. Eldar-Finkelman H, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10228-33

Regulation of mitogen-activated protein kinases by a calcium/calmodulin-dependent protein kinase cascade. Enslen H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):10803-8

Jun NH2-terminal kinase is constitutively activated in T cells transformed by the intracellular parasite Theileria parva. Galley Y, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):5119-24

Mitogen-activated protein kinase-mediated Fas apoptotic signaling pathway. Goillot E, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3302-7

Involvement of stress-activated protein kinase and p38 mitogen-activated protein kinase in mIgM-induced apoptosis of human B lymphocytes. Graves JD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13814-8

Ultrasensitivity in the mitogen-activated protein kinase cascade. Huang CY, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10078-83

Mast cell tumor necrosis factor alpha production is regulated by MEK kinases. Ishizuka T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6358-63

Ca(2+)-induced rebound potentiation of gamma-aminobutyric acid-mediated currents requires activation of Ca2+/calmodulin-dependent kinase II. Kano M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13351-6

Activation of mitogen-activating protein kinase by glucose is not required for insulin secretion. Khoo S, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5599-604

Interleukin 8-stimulated phosphatidylinositol-3-kinase activity regulates the migration of human neutrophils independent of extracellular signal-regulated kinase and p38 mitogen-activated protein kinases. Knall C, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3052-7

Candida albicans strains heterozygous and homozygous for mutations in mitogen-activated protein kinase signaling components have defects in hyphal development. Köhler JR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13223-8

Compromised mitochondrial function leads to increased cytosolic calcium and to activation of MAP kinases. Luo Y, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2; 94(18):9705-10

Independent regulation of JNK/p38 mitogen-activated protein kinases by metabolic oxidative stress in the liver. Mendelson KG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12908-13

Ca2+/calmodulin-dependent protein kinase II phosphorylation of the presynaptic protein synapsin I is persistently increased during long-term potentiation. Nayak AS, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15451-6

Cell cycle arrest mediated by the MEK/mitogen-activated protein kinase pathway. Pumiglia KM, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):448-52

Identification of a new class of protein kinases represented by eukaryotic elongation factor-2 kinase. Ryazanov AG, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4884-9

Sodium salicylate induces apoptosis via p38 mitogen-activated protein kinase but inhibits tumor necrosis factor-induced c-Jun N-terminal kinase/stress-activated protein kinase activation. Schwenger P, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2869-73

Tumor necrosis factor (TNF)-mediated kinase cascades: bifurcation of nuclear factor-kappaB and c-jun N-terminal kinase (JNK/SAPK) pathways at TNF receptor-associated factor 2. Song HY, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9792-6

Selective response of ternary complex factor Sap1a to different mitogen-activated protein kinase subgroups. Strahl T, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11563-8

Downstream of Crk adaptor signaling pathway: activation of Jun kinase by v-Crk through the guanine nucleotide exchange protein C3G. Tanaka S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2356-61

Differential tyrosyl-phosphorylation of multiple mitogen-activated protein kinase isoforms in response to

prolactin in Nb2 lymphoma cells. Camarillo IG, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):198–202

Thromboxane A2 stimulates mitogen-activated protein kinase and arachidonic acid liberation in rabbit platelets. Ohkubo S, et al. **Prostaglandins** 1996 Nov;52(5):403–13

Regulatory phosphorylation of AMPA-type glutamate receptors by CaM-KII during long-term potentiation [see comments] Barria A, et al. **Science** 1997 Jun 27; 276(5321):2042–5. Comment in: Science 1997 Jun 27;276(5321):2001–2.

Nuclear export of NF-ATc enhanced by glycogen synthase kinase-3. Beals CR, et al. **Science** 1997 Mar 28; 275(5308):1930–4

Requirement of CDC42 for Salmonella-induced cytoskeletal and nuclear responses. Chen LM, et al. **Science** 1996 Dec 20;274(5295):2115–8

A cytoplasmic inhibitor of the JNK signal transduction pathway. Dickens M, et al. **Science** 1997 Aug 1; 277(5326):693–6

In situ activation pattern of Drosophila EGF receptor pathway during development. Gabay L, et al. **Science** 1997 Aug 22;277(5329):1103–6

Inhibition of adipogenesis through MAP kinase-mediated phosphorylation of PPARgamma. Hu E, et al. **Science** 1996 Dec 20;274(5295):2100–3

Induction of apoptosis by ASK1, a mammalian MAPKKK that activates SAPK/JNK and p38 signaling pathways. Ichijo H, et al. **Science** 1997 Jan 3;275(5296):90–4

RAC regulation of actin polymerization and proliferation by a pathway distinct from Jun kinase [published erratum appears in Science 1997 Apr 11;276(5310):185] Joneson T, et al. **Science** 1996 Nov 22;274(5291):1374–6

Receptor-mediated activation of a MAP kinase in pathogen defense of plants. Ligterink W, et al. **Science** 1997 Jun 27; 276(5321):2054–7

Learning mechanisms: the case for CaM-KII [see comments] Lisman J, et al. **Science** 1997 Jun 27;276(5321):2001–2. Comment in: Science 1997 Jun 27;276(5321):2042–5.

Linkage of G protein-coupled receptors to the MAPK signaling pathway through PI 3-kinase gamma. Lopez-Ilasaca M, et al. **Science** 1997 Jan 17; 275(5298):394–7

SBF cell cycle regulator as a target of the yeast PKC-MAP kinase pathway. Madden K, et al. **Science** 1997 Mar 21; 275(5307):1781–4

Combinatorial control required for the specificity of yeast MAPK signaling. Madhani HD, et al. **Science** 1997 Feb 28;275(5304):1314–7

Control of memory formation through regulated expression of a CaMKII transgene. Mayford M, et al. **Science** 1996 Dec 6;274(5293):1678–83

Reduced ubiquitin-dependent degradation of c-Jun after phosphorylation by MAP kinases. Musti AM, et al. **Science** 1997 Jan 17;275(5298):400–2

Activation of SAPK/JNK by TNF receptor 1 through a noncytotoxic TRAF2-dependent pathway. Natoli G, et al. **Science** 1997 Jan 10;275(5297):200–3

Osmotic activation of the HOG MAPK pathway via Ste11p MAPKKK: scaffold role of Pbs2p MAPKK. Posas F, et al. **Science** 1997 Jun 13;276(5319):1702–5

Ultraviolet light and osmotic stress: activation of the JNK cascade through multiple growth factor and cytokine receptors. Rosette C, et al. **Science** 1996 Nov 15; 274(5290):1194–7

Maturation of a central glutamatergic synapse. Wu G, et al. **Science** 1996 Nov 8;274(5289):972–6

Endotoxin-induced alterations in insulin-stimulated phosphorylation of insulin receptor, IRS-1, and MAP kinase in skeletal muscle. Fan J, et al. **Shock** 1996 Sep; 6(3):164–70

A conserved motif at the amino termini of MEKs might mediate high-affinity interaction with the cognate MAPKs. Bardwell L, et al. **Trends Biochem Sci** 1996 Oct; 21(10):373–4

Two-component signal transducers and MAPK cascades. Wurgler-Murphy SM, et al. **Trends Biochem Sci** 1997 May; 22(5):172–6 (38 ref.)

Adhesion-dependency of serum-induced p42/p44 MAP kinase activation is released by retroviral oncogenes. Inoue H, et al. **Virology** 1996 Nov 1;225(1):223–6

Mitogen-activated protein kinase activity and microtubule organisation are altered by protein synthesis inhibition in maturing porcine oocytes. Inoue M, et al. **Zygote** 1996 Aug; 4(3):191–8

Co-culture with pig membrana granulosa cells modulates the activity of cdc2 and MAP kinase in maturing cattle oocytes. Motlik J, et al. **Zygote** 1996 Aug;4(3):247–56

[MAP kinase cascade regulating TGF beta signaling pathway] Matsumoto K, et al. **Seikagaku** 1996 Dec; 68(12):1824–8 (8 ref.) **(Jpn)**

[Regulation of plant MAP kinase cascade by environmental stresses and plant hormones] Ichimura K, et al. **Tanpakushitsu Kakusan Koso** 1997 Apr;42(5):706–16 (53 ref.) **(Jpn)**

[The MAP kinase cascade] Kawasaki H, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):424–30 (12 ref.) **(Jpn)**

[CaM kinase cascade] Okuno S, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):418–23 (30 ref.) **(Jpn)**

[The roles of the Mos-MAPK pathway in oocyte meiosis and cellular transformation] Sagata N. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1847–55 (62 ref.) **(Jpn)**

PHARMACOLOGY

Molecular and cellular pharmacology of a calcium/calmodulin-dependent protein kinase II (CaM kinase II) inhibitor, KN-62, and proposal of CaM kinase phosphorylation cascades. Hidaka H, et al. **Adv Pharmacol** 1996;36:193–219 (84 ref.)

The histamine H1 receptor in GT1-7 neuronal cells is regulated by calcium influx and KN-62, a putative inhibitor of calcium/calmodulin protein kinase II. Zamani MR, et al. **Br J Pharmacol** 1996 Jul;118(5):1119–26

Activation of stress-activated protein kinase-3 (SAPK3) by cytokines and cellular stresses is mediated via SAPKK3 (MKK6); comparison of the specificities of SAPK3 and SAPK2 (RK/p38). Cuenda A, et al. **EMBO J** 1997 Jan 15;16(2):295–305

Actions of IL-1 are selectively controlled by p38 mitogen-activated protein kinase: regulation of prostaglandin H synthase-2, metalloproteinases, and IL-6 at different levels. Ridley SH, et al. **J Immunol** 1997 Apr 1;158(7):3165–73

alpha-subunit of CaM-KII increases glycine currents in acutely isolated rat spinal neurons. Wang RA, et al. **J Neurophysiol** 1996 Jun;75(6):2651–3

Activation of p42 mitogen-activated protein kinase by glutamate in cultured radial glia. López-Colomé AM, et al. **Neurochem Res** 1997 Jun;22(6):679–85

The CaM-kinase II inhibitor KN-62 blocks NMDA but not kainate stimulation of NO synthesis. Rodriguez-Alvarez J, et al. **Neuroreport** 1996 Nov 4;7(15–17):2525–8

PHYSIOLOGY

Intrasteric regulation of calmodulin-dependent protein kinases. Kemp BE, et al. **Adv Pharmacol** 1996;36:221–49 (93 ref.)

Roles of the MAP kinase cascade in vertebrates. Moriguchi T, et al. **Adv Pharmacol** 1996;36:121–37 (124 ref.)

Mitogen-activated protein kinase and proliferation of human vascular smooth muscle cells. Mii S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H142–50

Ca(2+)-activated Cl- channels in a human biliary cell line: regulation by Ca2+/calmodulin-dependent protein kinase. Schlenker T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G304–10

Mechanisms of ANG II-induced mitogenic responses: role of 12-lipoxygenase and biphasic MAP kinase. Wen Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1212–20

Role of extracellular signal-regulated kinase and PKC alpha in cytosolic PLA2 activation by bradykinin in MDCK-D1 cells [published erratum appears in Am J Physiol 1997 Aug;273(2 Pt 1):section C following table of contents] Xing M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1380–7

Involvement of MAP kinase and c-fos signaling in the inhibition of cell growth by somatostatin. Yoshitomi H, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E769–74

Preconditioning potentiates molecular signaling for myocardial adaptation to ischemia. Das DK, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:191–209

Selective activation of the JNK/AP-1 pathway in Fas-mediated apoptosis of rheumatoid arthritis synoviocytes. Okamoto K, et al. **Arthritis Rheum** 1997 May; 40(5):919–26

Site-specific phosphorylation of a phospholamban peptide by cyclic nucleotide- and Ca2+/calmodulin-dependent protein kinases of cardiac sarcoplasmic reticulum. Karczewski P, et al. **Basic Res Cardiol** 1997;92 Suppl 1:37–43

Phosphorylation and regulation of the Ca(2+)-pumping ATPase in cardiac sarcoplasmic reticulum by calcium/calmodulin-dependent protein kinase. Narayanan N, et al. **Basic Res Cardiol** 1997;92 Suppl 1:25–35 (68 ref.)

The role of mitogen-activated protein kinase in oxytocin-induced contraction of uterine smooth muscle in pregnant rat. Nohara A, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):938–44

p70 S6 kinase is activated by sodium arsenite in adult rat cardiomyocytes: roles for phosphatidylinositol 3-kinase and p38 MAP kinase. Wang X, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):207–12

Involvement of the Ca2+/calmodulin-dependent protein kinase II pathway in the Ca2+-mediated regulation of the capacitative Ca2+ entry in Xenopus oocytes. Matifat F, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):267–72

Phosphorylation and regulation of the Na+/H+ exchanger through mitogen-activated protein kinase. Wang H, et al. **Biochemistry** 1997 Jul 29;36(30):9151–8

STATs and MAPKs: obligate or opportunistic partners in signaling. Ihle JN. **Bioessays** 1996 Feb;18(2):95–8 (13 ref.)

Involvement of calmodulin-dependent protein kinases-I and -IV in long-term potentiation. Tokuda M, et al. **Brain Res** 1997 Apr 25;755(1):162–6

Possible involvement of calmodulin-dependent kinases in Ca(2+)-dependent enhancement of [3H]5-hydroxytryptamine uptake in rat cortex. Yura A, et al. **Brain Res** 1996 Oct 28;738(1):96–102

Rac and Cdc42 induce actin polymerization and G1 cell cycle progression independently of p65PAK and the JNK/SAPK MAP kinase cascade. Lamarche N, et al. **Cell** 1996 Nov 1;87(3):519–29

Mice expressing activated CaMKII lack low frequency LTP and do not form stable place cells in the CA1 region of the hippocampus [see comments] Rotenberg A, et al. **Cell** 1996 Dec 27;87(7):1351–61. Comment in: Cell 1996 Dec 27;87(7):1147–8.

Oxidative stress-induced actin reorganization mediated by the p38 mitogen-activated protein kinase/heat shock protein 27 pathway in vascular endothelial cells. Huot J, et al. **Circ Res** 1997 Mar;80(3):383–92

MAP kinase activation by flow in endothelial cells. Role of beta 1 integrins and tyrosine kinases. Ishida T, et al. **Circ Res** 1996 Aug;79(2):310–6

CaMKII function in the nervous system explored from a genetic perspective. Mayford M, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:219–24 (25 ref.)

MEKKs, GCKs, MLKs, PAKs, TAKs, and tpls: upstream regulators of the c-Jun amino-terminal kinases? Fanger GR, et al. **Curr Opin Genet Dev** 1997 Feb;7(1):67–74 (58 ref.)

Positive feedback between MAP kinase and Mos during Xenopus oocyte maturation. Matten WT, et al. **Dev Biol** 1996 Nov 1;179(2):485–92

Heregulin-stimulated acetylcholine receptor gene expression in muscle: requirement for MAP kinase and evidence for a parallel inhibitory pathway independent of electrical activity. Altiok N, et al. **EMBO J** 1997 Feb 17;16(4):717–25

Site-related specificities of the control by androgenic status of adipogenesis and mitogen-activated protein kinase cascade/c-fos signaling pathways in rat preadipocytes. Lacasa D, et al. **Endocrinology** 1997 Aug;138(8):3181–6

Role of mitogen-activated protein kinase pathway in prostaglandin F2alpha-induced rat puerperal uterine contraction. Ohmichi M, et al. **Endocrinology** 1997 Aug; 138(8):3103–11

Differential activation of T cell cytokine production by the extracellular signal-regulated kinase (ERK) signaling pathway. Egerton M, et al. **Eur J Immunol** 1996 Oct; 26(10):2279–85

Calmodulin-dependent protein kinase II mediates signal transduction in apoptosis. Wright SC, et al. **FASEB J** 1997 Sep;11(11):843–9

Drosophila Jun kinase regulates expression of decapentaplegic via the ETS-domain protein Aop and the AP-1 transcription factor DJun during dorsal closure. Riesgo-Escovar JR, et al. **Genes Dev** 1997 Jul 1; 11(13):1717–27

Apoptosis signaling pathway in T cells is composed of ICE/Ced-3 family proteases and MAP kinase kinase 6b. Huang S, et al. **Immunity** 1997 Jun;6(6):739–49

Reduced virulence of Candida albicans MKC1 mutants: a role for mitogen-activated protein kinase in pathogenesis. Diez-Orejas R, et al. **Infect Immun** 1997 Feb;65(2):833–7

Signaling from G protein-coupled receptors to the c-jun promoter involves the MEF2 transcription factor. Evidence for a novel c-jun amino-terminal kinase-independent pathway. Coso OA, et al. **J Biol Chem** 1997 Aug 15;272(33):20691–7

Mitogen-activated protein kinase and cyclin B/Cdc2 phosphorylate Xenopus nuclear factor 7 (xnf7) in extracts from mature oocytes. Implications for regulation of xnf7 subcellular localization. El-Hodiri HM, et al. **J Biol Chem** 1997 Aug 15;272(33):20463–70

Nerve growth factor-mediated activation of the mitogen-activated protein (MAP) kinase cascade involves a signaling complex containing B-Raf and HSP90. Jaiswal RK, et al. **J Biol Chem** 1996 Sep 27;271(39):23626–9

Suppression of nerve growth factor-induced neuronal differentiation of PC12 cells. N-acetylcysteine uncouples the signal transduction from ras to the mitogen-activated protein kinase cascade. Kamata H, et al. **J Biol Chem** 1996 Dec 20;271(51):33018–25

Apoptosis induced by withdrawal of trophic factors is mediated by p38 mitogen-activated protein kinase. Kummer JL, et al. **J Biol Chem** 1997 Aug 15; 272(33):20490–4

The p38/reactivating kinase mitogen-activated protein kinase cascade mediates the activation of the transcription factor insulin upstream factor 1 and insulin gene transcription by high glucose in pancreatic beta-cells. Macfarlane WM, et al. **J Biol Chem** 1997 Aug 15;272(33):20936–44

Jun N-terminal kinase mediates activation of skeletal muscle glycogen synthase by insulin in vivo. Moxham CM, et al. **J Biol Chem** 1996 Nov 29;271(48):30765–73

Insulin-like growth factor 1 inhibits apoptosis using the phosphatidylinositol 3'-kinase and mitogen-activated protein kinase pathways. Párrizas M, et al. **J Biol Chem** 1997 Jan 3;272(1):154–61

Signal transduction pathways involved in the mitogenic activity of pleiotrophin. Implication of mitogen-activated protein kinase and phosphoinositide 3-kinase pathways. Souttou B, et al. **J Biol Chem** 1997 Aug 1;272(31):19588–93

p38-2, a novel mitogen-activated protein kinase with distinct properties. Stein B, et al. **J Biol Chem** 1997 Aug 1; 272(31):19509–17

Regulation of urokinase-type plasminogen activator expression by an ERK1-dependent signaling pathway in a squamous cell carcinoma cell line. Lengyel E, et al. **J Cell Biochem** 1996 Jun 1;61(3):430–43

MAP kinase is required for the spindle assembly checkpoint but is dispensable for the normal M phase entry and exit in Xenopus egg cell cycle extracts. Takenaka K, et al. **J Cell Biol** 1997 Mar 10;136(5):1091–7

CALMODULIN-DEPENDENT PROTEIN KINASES

A role for mitogen-activated protein kinase in the spindle assembly checkpoint in XTC cells. Wang XM, et al. **J Cell Biol** 1997 Apr 21;137(2):433-43

Dual role of protein kinase C in the regulation of cPLA2-mediated arachidonic acid release by P2U receptors in MDCK-D1 cells: involvement of MAP kinase-dependent and -independent pathways. Xing M, et al. **J Clin Invest** 1997 Feb 15;99(4):805-14

The mitogen-activated protein kinases system (MAP kinase cascade): its role in skin signal transduction. A review. Geilen CC, et al. **J Dermatol Sci** 1996 Sep;12(3):255-62 (44 ref.)

Convergence of Schiff base costimulatory signaling and TCR signaling at the level of mitogen-activated protein kinase ERK2. Chen H, et al. **J Immunol** 1997 Sep 1;159(5):2274-81

CD16 cross-linking induces both secretory and extracellular signal-regulated kinase (ERK)-dependent cytosolic phospholipase A2 (PLA2) activity in human natural killer cells: involvement of ERK, but not PLA2, in CD16-triggered granule exocytosis. Milella M, et al. **J Immunol** 1997 Apr 1;158(7):3148-54

TNF initiates E-selectin transcription in human endothelial cells through parallel TRAF-NF-kappa B and TRAF-RAC/CDC42-JNK-c-Jun/ATF2 pathways. Min W, et al. **J Immunol** 1997 Oct 1;159(7):3508-18

Fc gamma receptor cross-linking activates p42, p38, and JNK/SAPK mitogen-activated protein kinases in murine macrophages: role for p42MAPK in Fc gamma receptor-stimulated TNF-alpha synthesis. Rose DM, et al. **J Immunol** 1997 Apr 1,158(7):3433-8

Distinct synaptic loci of Ca2+/calmodulin-dependent protein kinase II necessary for long-term potentiation and depression. Stanton PK, et al. **J Neurophysiol** 1996 Sep; 76(3):2097-101

Action potential-dependent regulation of gene expression: temporal specificity in ca2+, cAMP-responsive element binding proteins, and mitogen-activated protein kinase signaling. Fields RD, et al. **J Neurosci** 1997 Oct 1; 17(19):7252-66

Regulation of neuromodulatory actions of angiotensin II in the brain neurons by the Ras-dependent mitogen-activated protein kinase pathway. Yang H, et al. **J Neurosci** 1996 Jul 1;16(13):4047-58

Involvement of MAP kinase in angiotensin II-induced phosphorylation and intracellular targeting of neuronal AT1 receptors. Yang H, et al. **J Neurosci** 1997 Mar 1; 17(5):1660-9

Role of calmodulin-dependent protein kinase II in the acute stimulation of aldosterone production. Pezzi V, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):417-24

Phosphorylation within the transactivation domain of adenovirus E1A protein by mitogen-activated protein kinase regulates expression of early region 4. Whalen SG, et al. **J Virol** 1997 May;71(5):3545-53

The pathway connecting m2 receptors to the nucleus involves small GTP-binding proteins acting on divergent MAP kinase cascades. Gutkind JS, et al. **Life Sci** 1997; 60(13-14):999-1006 (19 ref.)

Ca(2+)/calmodulin-dependent kinase is essential for both growth and nuclear division in Aspergillus nidulans. Dayton JS, et al. **Mol Biol Cell** 1996 Oct;7(10):1511-9

Mitogen-activated protein kinase/extracellular signal-regulated kinase 2 regulates cytoskeletal organization and chemotaxis via catalytic and microtubule-specific interactions. Reszka AA, et al. **Mol Biol Cell** 1997 Jul;8(7):1219-32

Mcs4 mitotic catastrophe suppressor regulates the fission yeast cell cycle through the Wik1-Wis1-Spc1 kinase cascade. Shiozaki K, et al. **Mol Biol Cell** 1997 Mar; 8(3):409-19

Mitogen-activated and cyclin-dependent protein kinases selectively and differentially modulate transcriptional enhancement by the glucocorticoid receptor. Krstic MD, et al. **Mol Cell Biol** 1997 Jul;17(7):3947-54

Signaling through mitogen-activated protein kinase and Rac/Rho does not duplicate the effects of activated Ras on skeletal myogenesis. Ramocki MB, et al. **Mol Cell Biol** 1997 Jul;17(7):3547-55

Differential regulation of the mitogen-activated protein and stress-activated protein kinase cascades by adrenergic agonists in quiescent and regenerating adult rat hepatocytes. Spector MS, et al. **Mol Cell Biol** 1997 Jul; 17(7):3556-65

Stabilization of the B-type natriuretic peptide mRNA in cardiac myocytes by alpha-adrenergic receptor activation: potential roles for protein kinase C and mitogen-activated protein kinase. Hanford DS, et al. **Mol Endocrinol** 1996 Dec;10(12):1719-27

Alpha1D-adrenergic receptors and mitogen-activated protein kinase mediate increased protein synthesis by arterial smooth muscle. Xin X, et al. **Mol Pharmacol** 1997 May;51(5):764-75

2-Methoxyestradiol, an endogenous estrogen metabolite, induces apoptosis in endothelial cells and inhibits angiogenesis: possible role for stress-activated protein kinase signaling pathway and Fas expression. Yue TL, et al. **Mol Pharmacol** 1997 Jun;51(6):951-62

Mutation in the phosphorylation sites of MAP kinase blocks learning-related internalization of apCAM in Aplysia sensory neurons [see comments] Bailey CH, et al. **Neuron** 1997 Jun;18(6):913-24. Comment in: Neuron 1997 Jun;18(6):839-42.

A kinase to remember: dual roles for MAP kinase in long-term memory [comment] Kornhauser JM, et al. **Neuron** 1997 Jun;18(6):839-42 (23 ref.). Comment on: Neuron 1997 Jun;18(6):913-24.

The involvement of calmodulin and Ca2+/calmodulin-dependent protein kinase II in the circadian rhythms controlled by the suprachiasmatic nucleus. Fukushima T, et al. **Neurosci Lett** 1997 May 9; 227(1):45-8

A role of Ca2+/calmodulin-dependent protein kinase II in the induction of long-term potentiation in hippocampal CA1 area. Miyamoto E, et al. **Neurosci Res** 1996 Jan; 24(2):117-22 (34 ref.)

Characterization of factor-independent variants derived from TF-1 hematopoietic progenitor cells: the role of the Raf/MAP kinase pathway in the anti-apoptotic effect of GM-CSF. Chao JR, et al. **Oncogene** 1997 Feb 13; 14(6):721-8

EGF induced SOS phosphorylation in PC12 cells involves P90 RSK-2. Douville E, et al. **Oncogene** 1997 Jul 24; 15(4):373-83

Regulation of 92 kDa type IV collagenase expression by the jun aminoterminal kinase- and the extracellular signal-regulated kinase-dependent signaling cascades. Gum R, et al. **Oncogene** 1997 Mar 27;14(12):1481-93

DAP-kinase loss of expression in various carcinoma and B-cell lymphoma cell lines: possible implications for role as tumor suppressor gene. Kissil JL, et al. **Oncogene** 1997 Jul 24;15(4):403-7

N-Shc: a neural-specific adapter molecule that mediates signaling from neurotrophin/Trk to Ras/MAPK pathway. Nakamura T, et al. **Oncogene** 1996 Sep 19;13(6):1111-21

The activity of the Ets transcription factor PEA3 is regulated by two distinct MAPK cascades. O'Hagan RC, et al. **Oncogene** 1996 Sep 19;13(6):1323-33

Urea-inducible Egr-1 transcription in renal inner medullary collecting duct (mIMCD3) cells is mediated by extracellular signal-regulated kinase activation. Cohen DM. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11242-7

Stress signaling in plants: a mitogen-activated protein kinase pathway is activated by cold and drought. Jonak C, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11274-9

Control of retinotectal axon arbor growth by postsynaptic CaMKII. Zou DJ, et al. **Prog Brain Res** 1996;108:303-12 (44 ref.)

New knockout mice point to molecular basis of memory [news] Roush W. **Science** 1997 Jan 3;275(5296):32-3

[Function of Raf/MAP kinase cascade in the regulation of cellular proliferation and differentiation] Nishida Y. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1673-9 (38 ref.) **(Jpn)**

[Functions of MAP kinase in cell cycle regulation] Takenaka K, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1658-65 (61 ref.) **(Jpn)**

RADIATION EFFECTS

Dose rate and mode of exposure are key factors in JNK activation by UV irradiation. Adler V, et al. **Carcinogenesis** 1996 Sep;17(9):2073-6

Impaired jun-NH2-terminal kinase activation by ultraviolet irradiation in fibroblasts of patients with Cockayne syndrome complementation group B. Dhar V, et al. **Cell Growth Differ** 1996 Jun;7(6):841-6

Activation of c-Jun-NH2-kinase by UV irradiation is dependent on p21ras. Adler V, et al. **J Biol Chem** 1996 Sep 20;271(38):23304-9

UV irradiation-induced apoptosis leads to activation of a 36-kDa myelin basic protein kinase in HL-60 cells. Lu ML, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):8977-82

SECRETION

Effects of 17 beta-estradiol and progesterone on mitogen-activated protein kinase expression and activity in rat uterine smooth muscle. Ruzycky AL. **Eur J Pharmacol** 1996 Apr 11;300(3):247-54

ULTRASTRUCTURE

Phosphorylation-sensitive secondary structure in a synthetic peptide corresponding to the activation loop of MAP kinase. Tokmakov AA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):243-7

CALORIC INTAKE see **ENERGY INTAKE**

CALORIC TESTS

3D analysis of human locomotion before and after caloric stimulation. Kubo T, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):143-8

ABR findings, electrocochleograms and caloric tests in vertebrobasilar ischemic rats. Nario K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:63-6

Relationship of the head impulse test and head-shake nystagmus in reference to caloric testing. Harvey SA, et al. **Am J Otol** 1997 Mar;18(2):207-13

The test-retest variability of the caloric test: a comparison of a modified air irrigation with the conventional water technique. Munro KJ, et al. **Br J Audiol** 1996 Oct; 30(5):303-6

Effects of caloric vestibular stimulation on prepositus hypoglossi neurons in rats. Nishiike S, et al. **Eur Arch Otorhinolaryngol** 1996;253(1-2):52-6

Study of labyrinthine function in children using the caloric test: our results. Melagrana A, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):1-8

Effects of caloric vestibular stimulation on parietal and temporal blood flow in human brain: a consecutive technetium-99m-HMPAO spect study. Takeda N, et al. **J Vestib Res** 1996 Mar-Apr;6(2):127-34

[Visual suppression test] Takemori S. **Nippon Rinsho** 1997 Mar;55 Suppl 1:435-8 (9 ref.) **(Jpn)**

METHODS

[Stimulating conditions of cold air caloric test] Mano H, et al. **Rinsho Byori** 1997 Mar;45(3):271-6 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Improvement of hemispatial neglect with cold-water calorics: an electrophysiological test of the arousal hypothesis of neglect. Storrie-Baker HJ, et al. **J Int Neuropsychol Soc** 1997 Jul;3(4):394-402

CALORIMETRY

High energy phosphates and direct calorimetry as predictive parameters for metabolic recovery of the rat liver following ischemia. Bach F, et al. **Acta Anaesthesiol Scand** 1996 Sep; 40(8 Pt 1):940-7

Titration calorimetric analysis of AcylCoA recognition by myristoylCoA:protein N-myristoyltransferase. Bhatnagar RS, et al. **Biochemistry** 1997 Jun 3;36(22):6700-8

Possible origin of differences between van't Hoff and calorimetric enthalpy estimates. Chaires JB. **Biophys Chem** 1997 Feb 28;64(1-3):15-23

Titration calorimetry of anesthetic-protein interaction: negative enthalpy of binding and anesthetic potency. Ueda I, et al. **Biophys J** 1997 Apr;72(4):1812-7

Sensing the heat: the application of isothermal titration calorimetry to thermodynamic studies of biomolecular interactions. Ladbury JE, et al. **Chem Biol** 1996 Oct; 3(10):791-801 (38 ref.)

Microcalorimetric and biochemical investigations of thermogenesis and metabolic pathways in human white adipocytes. Böttcher H, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):874-81

Angströms and calories. Janin J. **Structure** 1997 Apr 15; 5(4):473-9 (41 ref.)

INSTRUMENTATION

[Water calorimetry measurements in a 85 MeV clinical proton beam] Palmans H, et al. **Bull Cancer Radiother** 1996;83 Suppl:176s-8s

METHODS

Use of polyvinyl alcohol to stabilize binding of sulfated glycosaminoglycans to dimethylmethylene blue. Groves PJ, et al. **Anal Biochem** 1997 Feb 15;245(2):247-8

A respirometer with improved sensitivity for ready biodegradation testing. Hales SG, et al. **Chemosphere** 1996 Oct;33(7):1247-59

A study of the optimum bacteriostatic action of a synthetic medicine on bacteria using a microcalorimetric method. Liu Y, et al. **Chin J Biotechnol** 1996;12(1):61-5

A new microcatheter enables microcalorimetric assessment of thermogenesis after stimulation in cell cultures. Böttcher H, et al. **J Biochem Biophys Methods** 1996 Jul 10; 32(3):191-4

Quantitative characterization of adsorption isotherms using isothermal microcalorimetry. Pudipeddi M, et al. **J Pharm Sci** 1996 Apr;85(4):381-6

Calorimetry of whole yeast cells. Ashby LJ, et al. **Methods Mol Biol** 1996;53:367-82 (14 ref.)

Antibody characterization by isothermal titration calorimetry. Livingstone JR. **Nature** 1996 Dec 5; 384(6608):491-2 (11 ref.)

Photothermal beam deflection calorimetry in solution photochemistry: recent progress and future prospects. Falvey DE. **Photochem Photobiol** 1997 Jan;65(1):4-9 (34 ref.)

[A rapid method of energy metabolism assessment in the human body using thermovision technology] Gumener PI, et al. **Vopr Pitan** 1997;(1):13-6 (Eng. Abstr.) **(Rus)**

CALORIMETRY, DIFFERENTIAL SCANNING

Effects of nucleotides on the denaturation of F actin: a differential scanning calorimetry and FTIR spectroscopy study. Bombardier H, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):798-803

Differential scanning microcalorimetry indicates that human defensin, HNP-2, interacts specifically with biomembrane mimetic systems. Lohner K, et al. **Biochemistry** 1997 Feb 11;36(6):1525-31

[Effect of radiation on the structure of model and natural biomembranes using differential scanning calorimetry] Prister BS, et al. **Ukr Biokhim Zh** 1996 Nov-Dec; 68(6):76-80 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

A new ultrasensitive scanning calorimeter. Plotnikov VV, et al. **Anal Biochem** 1997 Aug 1;250(2):237–44

METHODS

DSC studies on bovine serum albumin denaturation. Effects of ionic strength and SDS concentration. Giancola C, et al. **Int J Biol Macromol** 1997 Jun;20(3):193–204

Differential scanning calorimetric studies on bovine serum albumin. IV. Effect of anionic surfactants with various lengths of hydrocarbon chain. Yamasaki M, et al. **Int J Biol Macromol** 1996 Dec;19(4):241–6

Application of differential scanning calorimetry and high performance liquid chromatography to determine the effects of mixture composition and preparation during the evaluation of niclosamide–excipient compatibility. Malan CE, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):549–57

Application of differential scanning calorimetry and X-ray powder diffraction to the solid–state study of metoclopramide. Pabón CV, et al. **J Pharm Biomed Anal** 1996 Oct;15(1):131–8

Use of subambient differential scanning calorimetry to monitor the frozen–state behavior of blends of excipients for freeze–drying. Martini A, et al. **PDA J Pharm Sci Technol** 1997 Mar–Apr;51(2):62–7

CALORIMETRY, INDIRECT

Comparison of indirect calorimetry and thermodilution cardiac output measurement in children. Capderou A, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1930–4

Indirect calorimetry: variability of consecutive baseline determinations of carbohydrate and fat utilization from gas exchange measurements. Gasic S, et al. **Horm Metab Res** 1997 Jan;29(1):12–5

Resting metabolic rate and diet–induced thermogenesis in restrained and unrestrained eaters. Platte P, et al. **Int J Eat Disord** 1996 Jul;20(1):33–41

Accuracy of 30–minute indirect calorimetry studies in predicting 24–hour energy expenditure in mechanically ventilated, critically ill patients. Smyrnios NA, et al. **JPEN J Parenter Enteral Nutr** 1997 May–Jun;21(3):168–74

Indirect calorimetry in critically ill patients: clinical applications and practical advice. Brandi LS, et al. **Nutrition** 1997 Apr;13(4):349–58 (71 ref.)

INSTRUMENTATION

Comparison of face mask, head hood, and canopy for breath sampling in flow–through indirect calorimetry to measure oxygen consumption and carbon dioxide production of preterm infants < 1500 grams. Bauer K, et al. **Pediatr Res** 1997 Jan;41(1):139–44

METHODS

Indirect calorimetry during treadmill walking—a study of two methods. Ohrström M, et al. **Clin Physiol** 1997 May; 17(3):237–45

Technical and methodologic considerations for performance of indirect calorimetry in ventilated and nonventilated preterm infants. Thureen PJ, et al. **Crit Care Med** 1997 Jan;25(1):171–80

STANDARDS

Analysis of the accuracy of continuous thermodilution cardiac output measurement. Comparison with intermittent thermodilution and Fick cardiac output measurement. Jacquet L, et al. **Intensive Care Med** 1996 Oct;22(10):1125–9

Validation of a 5–minute steady state indirect calorimetry protocol for resting energy expenditure in critically ill patients. Frankenfield DC, et al. **J Am Coll Nutr** 1996 Aug; 15(4):397–402

CALORIMETRY, RESPIRATION see **CALORIMETRY, INDIRECT**

CALOVO VIRUS see **BUNYAMWERA GROUP VIRUSES**

CALPACTIN I see **ANNEXIN II**

CALPACTIN II see **ANNEXIN I**

CALPACTINS see **ANNEXINS**

CALPAIN

Calpain, an upstream regulator of thymocyte apoptosis. Squier MK, et al. **J Immunol** 1997 Apr 15;158(8):3690–7

AGONISTS

Regional distribution and time–course of calpain activation following kainate–induced seizure activity in adult rat brain. Bi X, et al. **Brain Res** 1996 Jul 8;726(1–2):98–108

ANALYSIS

Differential intracellular distribution and activities of mu– and m–calpains during the differentiation of human myogenic cells in culture. Moraczewski J, et al. **C R Acad Sci III** 1996 Aug;319(8):681–6

Calpain and cathepsins in the skeletal muscle of inflammatory myopathies. Kumamoto T, et al. **Eur Neurol** 1997; 37(3):176–81

An immunocytochemical study of calpain II in the hippocampus of rats injected with kainate. Ong WY, et al. **Exp Brain Res** 1997 Jan;113(1):117–29

Involvement of calpain in postmortem proteolysis in the rat brain. Sorimachi Y, et al. **Forensic Sci Int** 1996 Aug 15; 81(2–3):165–74

Identification of mu–, m–calpains and calpastatin and capture of mu–calpain activation in endothelial cells. Fujitani K, et al. **J Cell Biochem** 1997 Aug 1;66(2):197–209

ANTAGONISTS & INHIBITORS

Alpha–mercaptoacrylic acid derivatives as novel selective calpain inhibitors. Wang KK, et al. **Adv Exp Med Biol** 1996; 389:95–101 (20 ref.)

Development and therapeutic potential of calpain inhibitors. Wang KK, et al. **Adv Pharmacol** 1997;37:117–52 (232 ref.)

Mechanism of growth inhibition by calpain inhibitor in MCF–7 cells. Shiba E, et al. **Anticancer Res** 1997 May–Jun; 17(3C):1919–23

Calpain inhibitors and serine protease inhibitors can produce apoptosis in HL–60 cells. Lu Q, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):175–81

Attenuation of TGF–beta–induced apoptosis in primary cultures of hepatocytes by calpain inhibitors. Gressner AM, et al. **Biochem Biophys Res Commun** 1997 Feb 13; 231(2):457–62

Specific increase in amyloid beta–protein 42 secretion ratio by calpain inhibition. Yamazaki T, et al. **Biochemistry** 1997 Jul 8;36(27):8377–83

Proteolytic degradation of high molecular weight kininogen in acute thrombotic thrombocytopenic purpura. Pavord S, et al. **Br J Haematol** 1997 Jun;97(4):762–7

Effect of calpain inhibitor I, and inhibitor of the proteolysis of I kappa B, on the circulatory failure and multiple organ dysfunction caused by endotoxin in the rat. Ruetten H, et al. **Br J Pharmacol** 1997 Jun;121(4):695–704

A new mechanism of methylprednisolone and other corticosteroids action demonstrated in vitro: inhibition of a proteinase (calpain) prevents myelin and cytoskeletal protein degradation. Banik NL, et al. **Brain Res** 1997 Feb 14;748(1–2):205–10

Translational suppression of calpain I reduces NMDA–induced spectrin proteolysis and pathophysiology in cultured hippocampal slices. Bednarski E, et al. **Brain Res** 1995 Oct 2;694(1–2):147–57

MDL–28170, a membrane–permeant calpain inhibitor, attenuates stunning and PKC epsilon proteolysis in reperfused ferret hearts. Urthaler F, et al. **Cardiovasc Res** 1997 Jul;35(1):60–7

Protease inhibitors in mouse skeletal muscle: tissue–associated components of serum inhibitors and calpastatin. Fumagalli L, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jun; 42(4):535–46

p–Benzoquinone, a reactive metabolite of benzene, prevents the processing of pre–interleukins–1 alpha and –1 beta to active cytokines by inhibition of the processing enzymes, calpain, and interleukin–1 beta converting enzyme. Kalf GF, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1251–6

Modulation of rat brain calpastatin efficiency by post–translational modifications. Salamino F, et al. **FEBS Lett** 1997 Aug 4;412(3):433–8

Calpain as proposed target for neuroprotective treatment of brain ischemia. Zalewska T. **Folia Neuropathol** 1996; 34(3):121–7 (44 ref.)

The calpain–calpastatin system in rheumatoid arthritis. Ménard HA, et al. **Immunol Today** 1996 Dec;17(12):545–7 (36 ref.)

Novel peptidyl alpha–keto amide inhibitors of calpains and other cysteine proteases. Li Z, et al. **J Med Chem** 1996 Sep 27;39(20):4089–98

Effects of ICE–like protease and calpain inhibitors on neuronal apoptosis. Nath R, et al. **Neuroreport** 1996 Dec 20;8(1):249–55

Blockade of calpain proteolytic activity rescues neurons from glutamate excitotoxicity. Rami A, et al. **Neurosci Res** 1997 Jan;27(1):93–7

Inhibition of the growth of WI–38 fibroblasts by benzyloxycarbonyl–Leu–Leu–Tyr diazomethyl ketone: evidence that cleavage of p53 by a calpain–like protease is necessary for G1 to S–phase transition. Zhang W, et al. **Oncogene** 1997 Jan 23;14(3):255–63

BIOSYNTHESIS

Euglycemic hyperinsulinemia and hyperaminoacidemia decrease skeletal muscle ubiquitin mRNA in goats. Larbaud D, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E505–12

Immunolocalization of cytoplasmic and myelin mcalpain in transfected Schwann cells: II. Effect of withdrawal of growth factors. Chakrabarti AK, et al. **J Neurosci Res** 1997 Mar 15;47(6):609–16

Calpain activation and not oxidative damage mediates L–2–chloropropionic acid–induced cerebellar granule cell necrosis. Widdowson PS, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):248–55

BLOOD

Erythrocytic calpain–calpastatin system in Alzheimer's disease. Soldati L, et al. **Aging (Milano)** 1996 Apr;8(2):106–8

Calcium–binding properties of human erythrocyte calpain. Michetti M, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):721–6

The calpain–calpastatin system in obsessive–compulsive disorder. Mundo E, et al. **Biol Psychiatry** 1997 Aug 1; 42(3):228–9

Distinct substrate specificities and functional roles for the 78– and 76–kDa forms of mu–calpain in human platelets. Schoenwaelder SM, et al. **J Biol Chem** 1997 Oct 3; 272(40):24876–84

CHEMISTRY

Isolation and identification of a proteinase from calf thymus that cleaves poly(ADP–ribose) polymerase and histone H1. Buki KG, et al. **Biochim Biophys Acta** 1997 Mar 7; 1338(1):100–6

Active site–directed antibodies identify calpain II as an early–appearing and pervasive component of neurofibrillary pathology in Alzheimer's disease. Grynspan F, et al. **Brain Res** 1997 Jul 25;763(2):145–58

Structure of a calpain Ca(2+)–binding domain reveals a novel EF–hand and Ca(2+)–induced conformational changes [see comments] Blanchard H, et al. **Nat Struct Biol** 1997 Jul;4(7):532–8. Comment in: Nat Struct Biol 1997 Jul;4(7):514–6.

EF–hands embrace [news; comment] Kretsinger RH. **Nat Struct Biol** 1997 Jul;4(7):514–6. Comment on: Nat Struct Biol 1997 Jul;4(7):532–8. Comment on: Nat Struct Biol 1997 Jul;4(7):539–47.

Crystal structure of calcium bound domain VI of calpain at 1.9 A resolution and its role in enzyme assembly, regulation, and inhibitor binding [see comments] Lin GD, et al. **Nat Struct Biol** 1997 Jul;4(7):539–47. Comment in: Nat Struct Biol 1997 Jul;4(7):514–6.

Ca(2+)–binding domain VI of rat calpain is a homodimer in solution: hydrodynamic, crystallization and preliminary X–ray diffraction studies. Blanchard H, et al. **Protein Sci** 1996 Mar;5(3):535–7

DEFICIENCY

Absence of calpain 3 in a form of limb–girdle muscular dystrophy (LGMD2A). Spencer MJ, et al. **J Neurol Sci** 1997 Mar 10;146(2):173–8

DRUG EFFECTS

The calcium–activated protease calpain I and ischemia–induced neurodegeneration. Siman R, et al. **Adv Neurol** 1996;71:167–74; discussion 174–5

Immunolocalization of cytoplasmic and myelin mcalpain in transfected Schwann cells: I. Effect of treatment with growth factors. Neuberger T, et al. **J Neurosci Res** 1997 Mar 1;47(5):521–30

GENETICS

Multiple independent molecular etiology for limb–girdle muscular dystrophy type 2A patients from various geographical origins. Richard I, et al. **Am J Hum Genet** 1997 May;60(5):1128–38

Primary sequences of rat mu–calpain large and small subunits are, respectively, moderately and highly similar to those of human. Sorimachi H, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1–2):37–41

Highly conserved structure in the promoter region of the gene for muscle–specific calpain, p94. Sorimachi H, et al. **Biol Chem** 1996 Dec;377(12):859–64

Rapid method for cloning a Ca(2+)–dependent metalloprotease from a gram–positive bacterium in Escherichia coli. Kohl A, et al. **Biotechniques** 1997 Jan; 22(1):58–60

Evidence for implication of muscle–specific calpain (p94) in myofibrillar integrity. Poussard S, et al. **Cell Growth Differ** 1996 Nov;7(11):1461–9

The tra–3 sex determination gene of Caenorhabditis elegans encodes a member of the calpain regulatory protease family. Barnes TM, et al. **EMBO J** 1996 Sep 2; 15(17):4477–84

mRNA levels of the calpain system in longissimus muscle of young pigs during prolonged feeding of a protein–free diet. van den Hemel–Grooten HN, et al. **J Anim Sci** 1997 Apr;75(4):968–74

Rapid communication: a novel DNA polymorphism of the bovine calpain gene detected by PCR–RFLP analysis. Zhang HM, et al. **J Anim Sci** 1996 Jun;74(6):1441

Regional differences in gene expression for calcium activated neutral proteases (calpains) and their endogenous inhibitor calpastatin in mouse brain and spinal cord. Li J, et al. **J Neurobiol** 1996 Jun;30(2):177–91

Chromosomal localization of the porcine skeletal muscle calpain gene. Briley GP, et al. **Mamm Genome** 1996 Mar; 7(3):226–8

Identification of muscle–specific calpain and beta–sarcoglycan genes in progressive autosomal recessive muscular dystrophies. Beckmann JS, et al. **Neuromuscul Disord** 1996 Dec;6(6):455–62

Prenatal diagnosis of limb–girdle muscular dystrophy type 2A. Restagno G, et al. **Neuromuscul Disord** 1996 May; 6(3):173–6

IMMUNOLOGY

Immunological analysis of two calpain–like Ca2+–dependent proteinases from lobster striated muscles: relationship to

mammalian and Drosophila calpains. Beyette JR, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):232–8

Active site-directed antibodies identify calpain II as an early-appearing and pervasive component of neurofibrillary pathology in Alzheimer's disease. Grynspan F, et al. **Brain Res** 1997 Jul 25;763(2):145–58

Immunoreactivities of m-calpain, calpastatin, nitric oxide synthase, myelin basic protein and dynamin II in baker's yeast, wheat germ and lobster tail muscle. Kuo WN, et al. **Cytobios** 1996;87(351):251–63

Calpain is the target antigen of a Th1 clone that transfers protective immunity against Schistosoma mansoni. Jankovic D, et al. **J Immunol** 1996 Jul 15;157(2):806–14

ISOLATION & PURIFICATION

Purification of active calpain by affinity chromatography on an immobilized peptide inhibitor. Anagli J, et al. **Eur J Biochem** 1996 Nov 1;241(3):948–54

METABOLISM

Activity of mu- and m-calpain in regenerating fast and slow twitch skeletal muscles. Moraczewski J, et al. **Acta Biochim Pol** 1996;43(4):693–700

Structure and physiological functions of ubiquitous and tissue-specific calpain species. Muscle-specific calpain, p94, interacts with connectin/titin. Sorimachi H, et al. **Adv Biophys** 1996;33:101–22 (89 ref.)

A continuous method for measuring calpain activity. Jiang ST, et al. **Anal Biochem** 1997 Jan 15;244(2):233–38

Muscle-specific calpain, p94, interacts with the extreme C-terminal region of connectin, a unique region flanked by two immunoglobulin C2 motifs. Kinbara K, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):99–107

NMDA and HIV-1 coat protein, GP120, produce necrotic but not apoptotic cell death in human CHP100 neuroblastoma cultures via a mechanism involving calpain. Corasaniti MT, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):299–304

Evidence for participation of a calpain-like cysteine protease in cell cycle progression through late G1 phase. Mellgren RL. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):555–8

Modulation of the calpain autoproteolysis by calpastatin and phospholipids. Melloni E, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):193–7

Cytoplasmic processing of human profilaggrin by active mu-calpain. Yamazaki M, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):652–6

Calpain subunits remain associated during catalysis. Zhang W, et al. **Biochem Biophys Res Commun** 1996 Oct 23; 227(3):891–6

Interaction of aspartic acid-104 and proline-287 with the active site of m-calpain. Arthur JS, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):535–41

Autolysis parallels activation of mu-calpain. Baki A, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):897–901

Non-erythroid alpha-spectrin breakdown by calpain and interleukin 1 beta-converting-enzyme-like protease(s) in apoptotic cells: contributory roles of both protease families in neuronal apoptosis. Nath R, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):683–90

Decreased susceptibility to calpains of v-FosFBR but not of v-FosFBJ or v-JunASV17 retroviral proteins compared with their cellular counterparts. Steff AM, et al. **Biochem J** 1997 May 1;323 (Pt 3):685–92

Site-directed mutagenesis of alpha II spectrin at codon 1175 modulates its mu-calpain susceptibility. Stabach PR, et al. **Biochemistry** 1997 Jan 7;36(1):57–65

Isolation and identification of a proteinase from calf thymus that cleaves poly(ADP-ribose) polymerase and histone H1. Buki KG, et al. **Biochim Biophys Acta** 1997 Mar 7; 1338(1):100–6

Cleavage of caldesmon and calponin by calpain: substrate recognition is not dependent on calmodulin binding domains. Croall DE, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):276–84

Increased calpain content and progressive degradation of neurofilament protein in spinal cord injury. Banik NL, et al. **Brain Res** 1997 Mar 28;752(1–2):301–6

Differential intracellular distribution and activities of mu- and m-calpains during the differentiation of human myogenic cells in culture. Moraczewski J, et al. **C R Acad Sci III** 1996 Aug;319(8):681–6

Extra-lysosomal proteolysis and expression of calpains and calpastatin in cultured thyroid cells. Karlsson JO, et al. **Cell Biol Int** 1997 Mar;21(3):167–74

Processing of the gap junction protein connexin50 in the ocular lens is accomplished by calpain. Lin JS, et al. **Eur J Cell Biol** 1997 Jun;73(2):141–9

Transient brain ischaemia provokes Ca2+, PIP2 and calpain responses prior to delayed neuronal death in monkeys. Yamashima T, et al. **Eur J Neurosci** 1996 Sep;8(9):1932–44

Myoblast fusion requires fibronectin degradation by exteriorized m-calpain. Dourdin N, et al. **Exp Cell Res** 1997 Sep 15;235(2):385–94

The calpain-calpastatin system and cellular proliferation and differentiation in rodent osteoblastic cells. Murray SS, et al. **Exp Cell Res** 1997 Jun 15;233(2):297–309

Activation of calpain in lens: a review and proposed mechanism. Azuma M, et al. **Exp Eye Res** 1997 Apr; 64(4):529–38

Changes in calpain II mRNA in young rat lens during maturation and cataract formation. Ma H, et al. **Exp Eye Res** 1997 Mar;64(3):437–45

On the involvement of calpains in the degradation of the tumor suppressor protein p53. Gonen H, et al. **FEBS Lett** 1997 Apr 7;406(1–2):17–22

Inhibitory and antiadhesive properties of human kininogens. Colman RW. **Immunopharmacology** 1996 May;32(1–3):9–18 (24 ref.)

Autolysis, Ca2+ requirement, and heterodimer stability in m-calpain. Elce JS, et al. **J Biol Chem** 1997 Apr 25; 272(17):11268–75

Oxidation inhibits substrate proteolysis by calpain I but not autolysis. Guttmann RP, et al. **J Biol Chem** 1997 Jan 17; 272(3):2005–12

Inositol polyphosphate 4-phosphatase is inactivated by calpain-mediated proteolysis in stimulated human platelets. Norris FA, et al. **J Biol Chem** 1997 Apr 25;272(17):10987–9

Calpain cleavage of focal adhesion proteins regulates the cytoskeletal attachment of integrin alphaIIbbeta3 (platelet glycoprotein IIb/IIIa) and the cellular retraction of fibrin clots. Schoenwaelder SM, et al. **J Biol Chem** 1997 Jan 17; 272(3):1694–702

The calpain cascade. Mu-calpain activates m-calpain. Tompa P, et al. **J Biol Chem** 1996 Dec 27;271(52):33161–4

Calpain activation in shear-induced platelet aggregation. Fujitani K, et al. **J Cell Biochem** 1997 Jul 1;66(1):54–64

Identification of mu-, m-calpains and calpastatin and capture of mu-calpain activation in endothelial cells. Fujitani K, et al. **J Cell Biochem** 1997 Aug 1;66(2):197–209

Calpain II expression is increased by changes in mechanical loading of muscle in vivo. Spencer MJ, et al. **J Cell Biochem** 1997 Jan;64(1):55–66

Calpain: a cytosolic proteinase active at the membranes. Molinari M, et al. **J Membr Biol** 1997 Mar 1;156(1):1–8 (118 ref.)

Changes in brain protease activity in aging. Benuck M, et al. **J Neurochem** 1996 Nov;67(5):2019–29

Calcium-activated neutral protease activity is decreased in PC12 cells after ethanol exposure. DePetrillo PB. **J Neurochem** 1997 May;68(5):1863–9

Neuronal nitric oxide synthase and calmodulin-dependent protein kinase IIalpha undergo neurotoxin-induced proteolysis. Hajimohammadreza I, et al. **J Neurochem** 1997 Sep;69(3):1006–13

Role of calpain- and interleukin-1 beta converting enzyme-like proteases in the beta-amyloid-induced death of rat hippocampal neurons in culture. Jordán J, et al. **J Neurochem** 1997 Apr;68(4):1612–21

mu-calpain activation and calpain-mediated cytoskeletal proteolysis following traumatic brain injury. Kampfl A, et al. **J Neurochem** 1996 Oct;67(4):1575–83

Ceramide selectively decreases tau levels in differentiated PC12 cells thrcugh modulation of calpain I. Xie H, et al. **J Neurochem** 1997 Sep;69(3):1020–30

Prolonged calpain-mediated spectrin breakdown occurs regionally following experimental brain injury in the rat. Saatman KE, et al. **J Neuropathol Exp Neurol** 1996 Jul; 55(7):850–60

Mutual protection of microtubule-associated protein 2 (MAP2) and cyclic AMP-dependent protein kinase II against mu-calpain. Alexa A, et al. **J Neurosci Res** 1996 Jun 1;44(5):438–45

Calpains and calpastatin in SH-SY5Y neuroblastoma cells during retinoic acid-induced differentiation and neurite outgrowth: comparison with the human brain calpain system. Grynspan F, et al. **J Neurosci Res** 1997 May 1; 48(3):181–91

Restriction of microM-calcium-requiring calpain activation to the plasma membrane in human neuroblastoma cells: evidence for regionalized influence of a calpain activator protein. Shea TB. **J Neurosci Res** 1997 Jun 15;48(6):543–50

Mechanisms of calpain proteolysis following traumatic brain injury: implications for pathology and therapy: implications for pathology and therapy: a review and update. Kampfl A, et al. **J Neurotrauma** 1997 Mar;14(3):121–34 (136 ref.)

Immunohistochemical study of calpain-mediated breakdown products to alpha-spectrin following controlled cortical impact injury in the rat. Newcomb JK, et al. **J Neurotrauma** 1997 Jun;14(6):369–83

Calcitonin decreases corticosterone-induced skeletal muscle calpain activity. Higuchi K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):491–6

Modulation of hypoxia-induced calpain activity in rat renal proximal tubules. Edelstein CL, et al. **Kidney Int** 1996 Oct; 50(4):1150–7

Influence of protein nutrition on calpain activity of mouse kidney: modulation by calpastatin. Goicoechea SM, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):95–9

Proteolytic cleavage of human p53 by calpain: a potential regulator of protein stability. Kubbutat MH, et al. **Mol Cell Biol** 1997 Jan;17(1):460–8

Proteolysis by calpains: a possible contribution to degradation of p53. Pariat M, et al. **Mol Cell Biol** 1997 May; 17(5):2806–15

Changes in calpain during meiosis in the rat egg. Malcov M, et al. **Mol Reprod Dev** 1997 Sep;48(1):119–26

Structure of a calpain Ca(2+)-binding domain reveals a novel EF-hand and Ca(2+)-induced conformational changes [see comments] Blanchard H, et al. **Nat Struct Biol** 1997 Jul;4(7):532–8. Comment in: Nat Struct Biol 1997 Jul;4(7):514–6.

EF-hands embrace [news; comment] Kretsinger RH. **Nat Struct Biol** 1997 Jul;4(7):514–6. Comment on: Nat Struct Biol 1997 Jul;4(7):532–8. Comment on: Nat Struct Biol 1997 Jul;4(7):539–47.

Crystal structure of calcium bound domain VI of calpain at 1.9 A resolution and its role in enzyme assembly, regulation, and inhibitor binding [see comments] Lin GD, et al. **Nat Struct Biol** 1997 Jul;4(7):539–47. Comment in: Nat Struct Biol 1997 Jul;4(7):514–6.

Role of calpain in spinal cord injury: increased calpain immunoreactivity in rat spinal cord after impact trauma. Li Z, et al. **Neurochem Res** 1996 Apr;21(4):441–8

Increased M-calpain expression in the mesencephalon of patients with Parkinson's disease but not in other neurodegenerative disorders involving the mesencephalon: a role in nerve cell death? Mouatt-Prigent A, et al. **Neuroscience** 1996 Aug;73(4):979–87

A calpain inhibitor attenuates cortical cytoskeletal protein loss after experimental traumatic brain injury in the rat. Posmantur R, et al. **Neuroscience** 1997 Apr;77(3):875–88

Ca2(+)-dependent and Ca2(+)-independent proteinase contents in the skeletal muscle in septic rats. Ahmad S, et al. **Shock** 1996 Apr;5(4):247–50

Procoagulant activity and active calpain in platelet-derived microparticles. Pasquet JM, et al. **Thromb Res** 1996 Jun 15;82(6):509–22

Enhanced liver calpain protease activity is a risk factor for dysfunction of human liver allografts. Aguilar HI, et al. **Transplantation** 1997 Feb 27;63(4):612–4

PHARMACOLOGY

Calpain contributes to silica-induced I kappa B-alpha degradation and nuclear factor-kappa B activation. Chen F, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):383–8

Crystallins from rat lens are especially susceptible to calpain-induced light scattering compared to other species. Shearer TR, et al. **Curr Eye Res** 1996 Aug;15(8):860–8

Characterization of calpain-mediated proteolysis of GluR1 subunits of alpha-amino-3-hydroxy-5-methylisoxazole-4-propionate receptors in rat brain. Bi X, et al. **J Neurochem** 1997 Apr; 68(4):1484–94

Immunohistochemical study of calpain-mediated alpha-crystallin proteolysis in the UPL rat hereditary cataract. Tomohiro M, et al. **Jpn J Ophthalmol** 1997 May-Jun;41(3):121–9

Calpain activity promotes the sealing of severed giant axons. Godell CM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4751–6

PHYSIOLOGY

Function of calpains: possible involvement in myoblast fusion. Hayashi M, et al. **Adv Exp Med Biol** 1996; 389:149–54

Cytoskeletal architecture in mouse lung epithelial cells is regulated by protein-kinase C-alpha and calpain II. Dwyer-Nield LD, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L526–34

Expression in Escherichia coli, phosphorylation with cAMP-dependent protein kinase and proteolysis by calpain of a 71-kDa domain of human endothelial actin binding protein. Jay D, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):555–8

Role of calcium-activated neutral protease (calpain) with diet and exercise. Belcastro AN, et al. **Can J Appl Physiol** 1996 Oct;21(5):328–46 (51 ref.)

Calpains are involved in phosphatidylinositol 3',4'-bisphosphate synthesis dependent on the alpha IIb beta 3 integrin engagement in thrombin-stimulated platelets. Montsarrat N, et al. **FEBS Lett** 1997 Mar 3; 404(1):23–6

Calpain as proposed target for neuroprotective treatment of brain ischemia. Zalewska T. **Folia Neuropathol** 1996; 34(3):121–7 (44 ref.)

Proteolysis of ankyrin and Na+/K(+)-ATPase in postmortem rat brain: is calpain involved? Harada K, et al. **Forensic Sci Int** 1997 Apr 18;86(1–2):77–85

Calpain activation in plasma membrane bleb formation during tert-butyl hydroperoxide-induced rat hepatocyte injury [published erratum appears in Gastroenterology 1996 Nov;111(5):1402] Miyoshi H, et al. **Gastroenterology** 1996 Jun;110(6):1897–904

The N-terminal moiety of CDC25(Mm), a GDP/GTP exchange factor of Ras proteins, controls the activity of the catalytic domain. Modulation by calmodulin and calpain. Baouz S, et al. **J Biol Chem** 1997 Mar 7; 272(10):6671–6

Proteolysis of platelet cortactin by calpain. Huang C, et al. **J Biol Chem** 1997 Aug 1;272(31):19248–52

Mechanisms of suppression of inducible nitric-oxide synthase (iNOS) expression in interferon (IFN)-gamma-stimulated RAW 264.7 cells by dexamethasone. Evidence for glucocorticoid-induced degradation of iNOS protein by calpain as a key step in post-transcriptional regulation. Walker G, et al. **J Biol Chem** 1997 Jun 27;272(26):16679–87

Calpain regulation of cytoskeletal signaling complexes in von Willebrand factor-stimulated platelets. Distinct roles for glycoprotein Ib-V-IX and glycoprotein IIb-IIIa (integrin alphaIIbbeta3) in von Willebrand factor-induced signal transduction. Yuan Y, et al. **J Biol Chem** 1997 Aug 29; 272(35):21847–54

Calpain activation contributes to dendritic remodeling after brief excitotoxic injury in vitro. Faddis BT, et al. **J Neurosci** 1997 Feb 1;17(3):951–9

m-Calpain activation/depletion is associated with androgen-induced reduction of protein kinase C and proliferation of male accessory sex organ smooth muscle cells. Gebrosky N, et al. **J Urol** 1997 Feb;157(2):662–8

Regulation of the calpain-calpastatin system by membranes (review). Kawasaki H, et al. **Mol Membr Biol** 1996 Oct-Dec;13(4):217–24 (74 ref.)

Acute quadriplegic myopathy: analysis of myosin isoforms and evidence for calpain-mediated proteolysis. Showalter CJ, et al. **Muscle Nerve** 1997 Mar;20(3):316–22

The C-terminal domain of glutamate receptor subunit 1 is a target for calpain-mediated proteolysis. Bi X, et al. **Neuroscience** 1996 Aug;73(4):903–6

In vitro precipitation of rat lens crystallins by calpain I--a calpain requiring low amounts of calcium for activation. Shearer TR, et al. **Ophthalmic Res** 1996;28 Suppl 2:109–14

Calpain is a mediator of preservation-reperfusion injury in rat liver transplantation. Kohli V, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9354–9

The role of the calcium-dependent enzymes nitric oxide synthase and calpain in hypoxia-induced proximal tubule injury. Edelstein CL, et al. **Ren Fail** 1996 May;18(3):501–11 (73 ref.)

Correlation of ischemia/reperfusion or partial outlet obstruction-induced spectrin proteolysis by calpain with contractile dysfunction in rabbit bladder. Zhao Y, et al. **Urology** 1997 Feb;49(2):293–300

CALPHOBINDIN I see **ANNEXIN V**

CALPHOBINDIN II see **ANNEXIN VI**

CALSEQUESTRIN

ANALYSIS

Differential distribution of calcium stores in paramecium cells. Occurrence of a subplasmalemmal store with a calsequestrin-like protein. Plattner H, et al. **Eur J Cell Biol** 1997 Apr;72(4):297–306

CHEMISTRY

Protons induce calsequestrin conformational changes. Hidalgo C, et al. **Biophys J** 1996 Oct;71(4):2130–7

DEFICIENCY

A drug inhibits the mitochondrial protease inducing calmitine deficiency in skeletal muscle of patients with Duchenne's muscular dystrophy and dy/dy dystrophic mice. Lucas-Heron B. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):559–61

GENETICS

Chimeric calsequestrin and its targeting to the junctional sarcoplasmic reticulum of skeletal muscle. Nori A, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1420–8

METABOLISM

Chimeric calsequestrin and its targeting to the junctional sarcoplasmic reticulum of skeletal muscle. Nori A, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1420–8

Biochemical characterization of calsequestrin-binding 30-kDa protein in sarcoplasmic reticulum of skeletal muscle. Kagari T, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):700–6

Alterations of expression and distribution of the Ca(2+)-storing proteins in endo/sarcoplasmic reticulum during differentiation of rat cardiomyocytes. Imanaka-Yoshida K, et al. **J Mol Cell Cardiol** 1996 Mar; 28(3):553–62

PHYSIOLOGY

Triadin, a linker for calsequestrin and the ryanodine receptor. Guo W, et al. **Soc Gen Physiol Ser** 1996;51:19–28 (28 ref.)

CALSPECTIN see **CALMODULIN-BINDING PROTEINS**

CALVARIA see **SKULL**

CALYMMATOBACTERIUM

GROWTH & DEVELOPMENT

Culture of Calymmatobacterium granulomatis. Kharsany AB, et al. **Clin Infect Dis** 1996 Feb;22(2):391

Growth and cultural characteristics of Calymmatobacterium granulomatis—the aetiological agent of granuloma inguinale (Donovanosis). Kharsany AB, et al. **J Med Microbiol** 1997 Jul;46(7):579–85

CAMBENDAZOLE

THERAPEUTIC USE

Benzimidazole resistance in cyathostomes in horses in the Ukraine. Borgsteede FH, et al. **Vet Parasitol** 1997 Jan; 68(1-2):113–7

CAMELIDS, NEW WORLD

Polioencephalomalacia in two alpacas. Beck C, et al. **Aust Vet J** 1996 Nov;74(5):350–2

Sporodesmin toxicosis in an alpaca. Coulton MA, et al. **Aust Vet J** 1997 Feb;75(2):136–7

Hypertrophic osteopathy in an alpaca. Curtis C, et al. **Aust Vet J** 1997 Jan;75(1):61–2

Cryptococcal meningitis in an alpaca. Goodchild LM, et al. **Aust Vet J** 1996 Dec;74(6):428–30

Tick paralysis and hepatic lipidosis in a llama. Jonsson NN, et al. **Aust Vet J** 1997 Apr;75(4):250–3

Endocrine diagnosis of cryptorchidism in a llama. Perkins NR, et al. **Aust Vet J** 1996 Oct;74(4):275–7

Meningoencephalitis and brain abscessation due to Escherichia coli in a 2 week old alpaca cria. Tsur I, et al. **Aust Vet J** 1996 Dec;74(6):437–8

Anaplastic sarcoma of the mandible in a llama. Malone E, et al. **Can Vet J** 1996 Jul;37(7):426–8

Multifocal polyostotic aneurysmal bone cysts in a llama. Anderson DE, et al. **J Am Vet Med Assoc** 1997 Mar 15; 210(6):808–10

Peritonitis associated with passage of the placenta into the abdominal cavity in a llama. Bedford SJ, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1914–6

Additional cause of mastitis in a llama [letter; comment] Bezek D, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):748 . Comment on: J Am Vet Med Assoc 1996 Oct 15;209(8):1457–63.

Tooth root abscesses in New World camelids: 23 cases (1972–1994). Cebra ML, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):819–22

Ocular diseases of llamas: 194 cases (1980–1993). Gionfriddo JR, et al. **J Am Vet Med Assoc** 1997 Jun 15;210(12):1784–7

X-chromosome monosomy in an infertile female llama. Hinrichs K, et al. **J Am Vet Med Assoc** 1997 May 15; 210(10):1503–4

Evaluation of udder health and mastitis in llamas [see comments] Rowan LL, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1457–63. Comment in: J Am Vet Med Assoc 1997 Mar 15;210(6):748.

Evaluation of vitamin D status of llamas and alpacas with hypophosphatemic rickets. Van Saun RJ, et al. **J Am Vet Med Assoc** 1996 Sep 15;209(6):1128–33

Diagnosis of oleander poisoning in livestock. Galey FD, et al. **J Vet Diagn Invest** 1996 Jul;8(3):358–64

Intraosseous hemangiosarcoma with metastasis in a three-month-old llama. Hamir AN, et al. **J Vet Diagn Invest** 1997 Apr;9(2):210–3

Gastric squamous cell carcinoma in three llamas. Sartin EA, et al. **J Vet Diagn Invest** 1997 Jan;9(1):103–6

Husbandry and diseases of camelids. Fowler ME. **Rev Sci Tech** 1996 Mar;15(1):155–69 (18 ref.)

Paratuberculosis in small ruminants, deer, and South American camelids. Stehman SM. **Vet Clin North Am Food Anim Pract** 1996 Jul;12(2):441–55 (56 ref.)

Suspected nutritional deficiency causing anaemia in llamas (Lama glama). Andrews AH, et al. **Vet Rec** 1997 Feb 8; 140(6):153–4

[Pregnancy in New World camelids] Gauly M, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jan;104(1):15–7 (Eng. Abstr.) **(Ger)**

ABNORMALITIES

Fascia lata autograft for treatment of congenital cranial cruciate ligament deficiency in a llama. Anderson DE, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):811–3

BLOOD

Fetal and maternal blood oxygen affinity: a comparative study in llamas and sheep. Moraga F, et al. **Comp Biochem Physiol A Physiol** 1996 Oct;115(2):111–5

EMBRYOLOGY

Early pregnancy diagnosis in alpaca (Lama pacos) and llama (Lama glama) by ultrasound. Parraguez VH, et al. **Anim Reprod Sci** 1997 May;47(1-2):113–21

GENETICS

Fifteen polymorphic dinucleotide microsatellites in llamas and alpacas. Lang KD, et al. **Anim Genet** 1996 Aug; 27(4):293

METABOLISM

Pharmacokinetics of gentamicin in llamas. Dowling PM, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):161–3

MICROBIOLOGY

An Ehrlichia strain from a llama (Lama glama) and Llama-associated ticks (Ixodes pacificus). Barlough JE, et al. **J Clin Microbiol** 1997 Apr;35(4):1005–7

PARASITOLOGY

Acute and subacute Fasciolosis of alpacas (Lama pacos) and treatment with triclabendazole. Puente GL. **Trop Anim Health Prod** 1997 Feb;29(1):31–2

Fasciola hepatica in semi-captive vicuñas (Vicugna vicugna) in north west Argentina. Cafrune MM, et al. **Vet Rec** 1996 Jul 27;139(4):97

PHYSIOLOGY

Cardiopulmonary effects of propofol infusion in llamas. Duke T, et al. **Am J Vet Res** 1997 Feb;58(2):153–6

Fertility of the male alpaca: effect of daily consecutive breeding. Bravo PW, et al. **Anim Reprod Sci** 1997 Apr; 46(3-4):305–12

Superovulation in llamas (Lama glama) with pFSH and equine chorionic gonadotrophin used individually or in combination. Correa JE, et al. **Anim Reprod Sci** 1997 Apr; 46(3-4):289–96

Seasonal effects on gestation length and birth weight in alpacas. Davis GH, et al. **Anim Reprod Sci** 1997 Apr; 46(3-4):297–303

Early pregnancy diagnosis in alpaca (Lama pacos) and llama (Lama glama) by ultrasound. Parraguez VH, et al. **Anim Reprod Sci** 1997 May;47(1-2):113–21

Effect of repeated collection on semen characteristics of alpacas. Bravo PW, et al. **Biol Reprod** 1997 Sep;57(3):520–4

Induction of parturition in alpacas and subsequent survival of neonates. Bravo PW, et al. **J Am Vet Med Assoc** 1996 Nov 15;209(10):1760–2

[Reproductive physiology in New World camelids. Review] Gauly M. **Tierarztl Prax** 1997 Jan;25(1):74–9 (41 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Surgical correction of anorectal atresia and rectovaginal fistula in an alpaca cria. Carraro DB, et al. **Aust Vet J** 1996 Nov;74(5):352–4

URINE

Comparison of methods for sodium and potassium determination in llama urine. Christopher MM, et al. **Am J Vet Res** 1996 Jan;57(1):25–30

VIROLOGY

[Seroprevalence of viral infections in llamas (Lama glama) in the Republic of Argentina] Puntel M. **Rev Argent Microbiol** 1997 Jan-Mar;29(1):38–46 (Eng. Abstr.) **(Spa)**

CAMELLIA see **TEA**

CAMELS

Preliminary comparative studies on complement fixation, dot enzyme immunoassay, and western blotting for the detection of antibodies to Mycoplasma mycoides subspecies mycoides SC in Nigerian camel (Camelus dromedarius). Egwu GO, et al. **Acta Vet Hung** 1997;45(2):111–8

Cervical spinal injuries caused by collision of cars with camels. all-Sebai MW, et al. **Injury** 1997 Apr;28(3):191–4

Mineral content of camel milk and colostrum. Gorban AM, et al. **J Dairy Res** 1997 Aug;64(3):471–4

Oestrus ovis (sheep nasal fly) infesting the eyes and the nose of a camel keeper family. Fekry AA, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):493–6

The distribution of total, free, short-chain acyl and long-chain acyl carnitine in ocular tissues of the camel (Camelus dromedarius). Alhomida AS, et al. **J Ocul Pharmacol Ther** 1997 Aug;13(4):381–7

The nature of the inhibition of camel retina acetylcholinesterase (EC 3.1.1.7) activity by tetrahydroaminoacridine. al-Jafari AA. **J Ocul Pharmacol Ther** 1996 Winter;12(4):503–14

Ciliate protozoa in the forestomach of the dromedary camel, (Camelus dromedarius), in Egypt, with description of a new species. Selim HM, et al. **J Vet Med Sci** 1996 Sep; 58(9):833–7

Comparative pharmacokinetics of paracetamol (acetaminophen) and its sulphate and glucuronide metabolites in desert camels and goats. Ali BH, et al. **J Vet Pharmacol Ther** 1996 Jun;19(3):238–44

Echinococcus granulosus antigen B and seroreactivity in natural ovine hydatidosis. Ibrahem MM, et al. **Res Vet Sci** 1996 Sep;61(2):102–6

Mastitis in Camelus dromedarius and the somatic cell content of camels' milk. Obied AI, et al. **Res Vet Sci** 1996 Jul; 61(1):55–8

Husbandry and diseases of camelids. Fowler ME. **Rev Sci Tech** 1996 Mar;15(1):155–69 (18 ref.)

Corynebacterium pseudotuberculosis infection and lymphadenitis (taloa or mala) in the camel. Afzai M, et al. **Trop Anim Health Prod** 1996 May;28(2):158–62

Actinobacillus lignieresi infection in camels on the Sokoto plains, Nigeria. Daneji AI, et al. **Trop Anim Health Prod** 1996 Nov;28(4):315–6

Rabies in a camel—a case report. Kumar A, et al. **Trop Anim Health Prod** 1997 Feb;29(1):34

Evaluation of various diagnostic techniques for Trypanosoma evansi infections in naturally infected camels. Pathak KM, et al. **Vet Parasitol** 1997 Apr;69(1-2):49–54

First compartment cannulation of the dromedary camel. Manefield JW, et al. **Vet Res** 1997;28(2):191–4

Milk N-acetyl-beta-D-glucosaminidase and serum albumin as indicators of subclinical mastitis in the camel. Abdurahman OA. **Zentralbl Veterinarmed A** 1995 Dec; 42(10):643–7

CAMELS

[Preliminary study of the safety and immunogenicity of the attenuated VD47/25 strain of camelpoxvirus] Nguyen-Ba-Vy, et al. **Rev Elev Med Vet Pays Trop** 1996; 49(3):189-94 (Eng. Abstr.) **(Fre)**

[Ancient Chinese camel medicine] von den Driesch A. **Schweiz Arch Tierheilkd** 1997;139(1):24-8 **(Ger)**

[Traditional camel medicine in China (see comments)] Franke H. **Sudhoffs Arch Z Wissenschaftsgesch** 1997;81(1):84-98. Comment in: Sudhoffs Arch Z Wissenschaftsgesch 1997 ;81(1):99-104. **(Ger)**

[Veterinary medicine comment on camel medicine in Fan-mu tsuan yen-fang (comment)] von den Driesch A. **Sudhoffs Arch Z Wissenschaftsgesch** 1997;81(1):99-104 (Eng. Abstr.). Comment on: Sudhoffs Arch Z Wissenschaftsgesch 1997 ;81(1):84-98. **(Ger)**

ANATOMY & HISTOLOGY

The coronary arteries of the dromedary camel (Camelus dromedarius). Taha AA, et al. **Anat Histol Embryol** 1996 Dec;25(4):295-9

Encapsulated sensory receptors within intraorbital skeletal muscles of a camel. Abuel-Atta AA, et al. **Anat Rec** 1997 Feb;247(2):189-98

BLOOD

Comparative aspects of glucose tolerance in camels, sheep, and ponies. Elmahdi B, et al. **Comp Biochem Physiol A Physiol** 1997 Sep;118(1):147-51

Tocopherols in camel's plasma and tissues. al-Senaidy AM. **Int J Vitam Nutr Res** 1996;66(3):210-6

The bioavailability of febantel in dehydrated camels. Ben-Zvi Z, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):288-94

Respiratory burst activity of phagocytic cells isolated from the mammary glands and blood of camels (Camelus bactrianus). Cooray R, et al. **Zentralbl Veterinarmed [B]** 1997 Mar;44(1):29-37

EMBRYOLOGY

Implantation and early placentation in the one-humped camel (Camelus dromedarius). Skidmore JA, et al. **Placenta** 1996 May;17(4):253-62

IMMUNOLOGY

Immunoglobulins of camel (Camelus dromedarius) colostrum. Azwai SM, et al. **J Comp Pathol** 1996 Apr; 114(3):273-82

Single antibody domains as small recognition units: design and in vitro antigen selection of camelized, human VH domains with improved protein stability. Davies J, et al. **Protein Eng** 1996 Jun;9(6):531-7

METABOLISM

Pharmacokinetics of phenylbutazone in camels. Wasfi IA, et al. **Am J Vet Res** 1997 Jun;58(6):636-40

Total, free, short-chain and long-chain acyl carnitine levels in Arabian camel milk (Camelus dromedarius). Alhomida AS. **Ann Nutr Metab** 1996;40(4):221-6

Pharmacokinetic considerations in the camel (Camelus dromedarius): a review. Ali BH, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Sep;115(1):1-9 (61 ref.)

High-performance liquid chromatographic determination of imidazole dipeptides, histidine, 1-methylhistidine and 3-methylhistidine in equine and camel muscle and individual muscle fibres. Dunnett M, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):47-55

Phenylbutazone pharmacokinetics and bioavailability in the dromedary camel (Camelus dromedarius). Kadir A, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):54-60

Pattern of distribution of neuropeptides in the camel lacrimal gland. Adeghate E. **Neuropeptides** 1996 Dec;30(6):566-71

Patterns of hormone secretion throughout pregnancy in the one-humped camel (Camelus dromedarius). Skidmore JA, et al. **Reprod Fertil Dev** 1996;8(5):863-9

Water restriction and bone metabolism in camels. Ben Goumi M, et al. **Reprod Nutr Dev** 1996;36(5):545-54

Pharmacokinetics of ivermectin in the camel (Camelus dromedarius). Oukessou M, et al. **Vet Rec** 1996 Oct 26; 139(17):424-5

MICROBIOLOGY

Isolation of Streptococcus equi subspecies equi (strangles agent) from an Ethiopian camel. Yigezu LM, et al. **Vet Rec** 1997 Jun 7;140(23):608

PARASITOLOGY

Onchocerca fasciata: histochemical demonstration of succinate and NADH dehydrogenase. Omar MS, et al. **J Helminthol** 1996 Mar;70(1):47-51

Comparative efficacy of three anthelmintics against mixed gastrointestinal nematode infections in camels. Mukhwana EJ, et al. **Trop Anim Health Prod** 1997 May;29(2):99-101

An assessment of the efficacy of deltamethrin with HCH for the treatment of sarcoptic mange in camels. Teame G. **Trop Anim Health Prod** 1997 Feb;29(1):33-4

Changes in classical pathway complement activity in dromedary camels experimentally infected with Trypanosoma evansi. Ouma JO, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1-2):135-40

Camel tick (Acari:Ixodidae) control with pour-on application of flumethrin. el-Azazy OM. **Vet Parasitol** 1996 Dec 31; 67(3-4):281-4

Adaptation to arid environment: Haemonchus longistipes in dromedaries of Saharo-Sahelian areas of Mauritania. Jacquiet P, et al. **Vet Parasitol** 1996 Nov 15;66(3-4):193-204

PHYSIOLOGY

Immunohistochemical identification of pancreatic hormones, neuropeptides and cytoskeletal proteins in pancreas of the camel (Camelus dromedarius). Adeghate E. **J Morphol** 1997 Feb;231(2):185-93

Innervation of the pancreas of the one-humped camel (Camelus dromedarius) by neuropeptide-Y, galanin, calcitonin-gene-related-peptide, atrial natriuretic peptide and cholecystokinin. Adeghate E, et al. **Neuropeptides** 1996 Oct;30(5):420-4

Studies on the age of puberty of male camels (Camelus dromedaries) in Saudi Arabia. Abdel Rahim SE. **Vet J** 1997 Jul;154(1):79-83

Respiratory burst activity of phagocytic cells isolated from the mammary glands and blood of camels (Camelus bactrianus). Cooray R, et al. **Zentralbl Veterinarmed [B]** 1997 Mar;44(1):29-37

VIROLOGY

In vivo and in vitro characterization of two camelpoxvirus isolates with decreased virulence. Otterbein CK, et al. **Rev Elev Med Vet Pays Trop** 1996;49(2):114-20

Comparison of camelpox viruses isolated in Dubai. Pfeffer M, et al. **Vet Microbiol** 1996 Mar;49(1-2):135-46

CAMP-DEPENDENT PROTEIN KINASES see **CYCLIC AMP-DEPENDENT PROTEIN KINASES**

CAMP PHOSPHODIESTERASE see **3',5'-CYCLIC-NUCLEOTIDE PHOSPHODIESTERASE**

CAMP RECEPTORS see **RECEPTORS, CYCLIC AMP**

CAMPHOR

ANALOGS & DERIVATIVES

Mobility of norbornane-type substrates and water accessibility in cytochrome P-450cam. Schulze H, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):77-92

Mexoryl SX protects against solar-simulated UVR-induced photocarcinogenesis in mice. Fourtanier A. **Photochem Photobiol** 1996 Oct;64(4):688-93

Binding free energy calculations for P450cam-substrate complexes. Paulsen MD, et al. **Protein Eng** 1996 Jul; 9(7):567-71

[Use of fast-acting adaptogens and symptomatic means during evacuation of trauma victims by air transportation] Grechko AT, et al. **Aviakosm Ekolog Med** 1997;31(2):47-9 **(Rus)**

ANALYSIS

Validation of the assay method for camphor and menthol in a herbal drug preparation. Karuza L, et al. **J Pharm Biomed Anal** 1996 Dec;15(3):419-22

CHEMISTRY

Structural changes in cytochrome P-450cam effected by the binding of the enantiomers (1R)-camphor and (1S)-camphor. Schulze H, et al. **Biochemistry** 1996 Nov 12;35(45):14127-38

Mobility of norbornane-type substrates and water accessibility in cytochrome P-450cam. Schulze H, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):77-92

METABOLISM

Origin of the photoacoustic signal in cytochrome P-450cam: role of the Arg186-Asp251-Lys178 bifurcated salt bridge. Di Primo C, et al. **Biochemistry** 1997 Jan 7;36(1):112-8

PHARMACOLOGY

Overproduction of three genes leads to camphor resistance and chromosome condensation in Escherichia coli. Hu KH, et al. **Genetics** 1996 Aug;143(4):1521-32

Unfolding of the bacterial nucleoid both in vivo and in vitro as a result of exposure to camphor. Harrington EW, et al. **J Bacteriol** 1997 Apr;179(7):2435-9

POISONING

Camphor ingestion for abortion (case report). Rabl W, et al. **Forensic Sci Int** 1997 Sep 19;89(1-2):137-40

Unusual cause of seizure. Gouin S, et al. **Pediatr Emerg Care** 1996 Aug;12(4):298-300 (13 ref.)

Campho-Phenique ingestion: an intentional overdose. Lahoud CA, et al. **South Med J** 1997 Jun;90(6):647-8 (11 ref.)

STANDARDS

[dl-Camphor Reference Standard (Control 951) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):125-7 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Tiger Balm as a treatment of tension headache. A clinical trial in general practice. Schattner P, et al. **Aust Fam Physician** 1996 Feb;25(2):216, 218, 220 passim

TOXICITY

Reproductive toxicity studies of D-camphor in rats and rabbits. Leuschner J. **Arzneimittelforschung** 1997 Feb; 47(2):124-8

CAMPHOR 5-MONOOXYGENASE

CHEMISTRY

Role of the polarity of the heme environment for the CO stretch modes in cytochrome P-450cam-CO. Jung C, et al. **Biochemistry** 1996 Nov 26;35(47):15088-94

Probing the heme iron coordination structure of pressure-induced cytochrome P420cam. Martinis SA, et al. **Biochemistry** 1996 Nov 19;35(46):14530-6

Comparative Fourier transform infrared studies of the secondary structure and the CO heme ligand environment in cytochrome P-450cam and cytochrome P-420cam. Mouro C, et al. **Biochemistry** 1997 Jul 1;36(26):8125-34

Structural changes in cytochrome P-450cam effected by the binding of the enantiomers (1R)-camphor and (1S)-camphor. Schulze H, et al. **Biochemistry** 1996 Nov 12;35(45):14127-38

Mobility of norbornane-type substrates and water accessibility in cytochrome P-450cam. Schulze H, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):77-92

A structure-based model for cytochrome P450cam-putidaredoxin interactions. Pochapsky TC, et al. **Biochimie** 1996;78(8-9):723-33

NMR studies of recombinant cytochrome P450cam mutants. Wakasugi K, et al. **Biochimie** 1996;78(8-9):763-70

1H-NMR study of diamagnetic cytochrome P450cam: assignment of heme resonances and substrate dependance of one cysteinate beta proton. Mouro C, et al. **FEBS Lett** 1997 Sep 8;414(2):203-8

Substrate docking algorithms and the prediction of substrate specificity. De Voss JJ, et al. **Methods Enzymol** 1996; 272:336-47

Binding free energy calculations for P450cam-substrate complexes. Paulsen MD, et al. **Protein Eng** 1996 Jul; 9(7):567-71

Molecular modelling of CYP1A subfamily members based on an alignment with CYP102: rationalization of CYP1A substrate specificity in terms of active site amino acid residues. Lewis DF, et al. **Xenobiotica** 1996 Jul;26(7):723-53

GENETICS

NMR studies of recombinant cytochrome P450cam mutants. Wakasugi K, et al. **Biochimie** 1996;78(8-9):763-70

IMMUNOLOGY

Epitope mapping of cytochrome P450cam (CYP101). Kolesanova EF, et al. **Arch Biochem Biophys** 1997 May 15;341(2):229-37

Antigenic mapping of bacterial and animal cytochromes P-450. Kolesanova EF, et al. **Biochimie** 1996; 78(8-9):752-62

METABOLISM

Tetralin as a substrate for camphor (cytochrome P450) 5-monooxygenase. Grayson DA, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):239-47

Reduced oxy intermediate observed in D251N cytochrome P450cam. Benson DE, et al. **Biochemistry** 1997 Apr 29; 36(17):5104-7

Mobility of norbornane-type substrates and water accessibility in cytochrome P-450cam. Schulze H, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):77-92

Rational approach to improving reductive catalysis by cytochrome P450cam. Manchester JI, et al. **Biochimie** 1996; 78(8-9):714-22 (58 ref.)

A structure-based model for cytochrome P450cam-putidaredoxin interactions. Pochapsky TC, et al. **Biochimie** 1996;78(8-9):723-33

1H-NMR study of diamagnetic cytochrome P450cam: assignment of heme resonances and substrate dependance of one cysteinate beta proton. Mouro C, et al. **FEBS Lett** 1997 Sep 8;414(2):203-8

The catalytic activity of cytochrome P450cam towards styrene oxidation is increased by site-specific mutagenesis. Nickerson DP, et al. **FEBS Lett** 1997 Mar 24;405(2):153-6

Probing the interactions of putidaredoxin with redox partners in camphor P450 5-monooxygenase by mutagenesis of surface residues. Holden M, et al. **J Biol Chem** 1997 Aug 29;272(35):21720-5

Putidaredoxin reductase-putidaredoxin-cytochrome p450cam triple fusion protein. Construction of a self-sufficient Escherichia coli catalytic system. Sibbesen O, et al. **J Biol Chem** 1996 Sep 13;271(37):22462-9

Substrate docking algorithms and the prediction of substrate specificity. De Voss JJ, et al. **Methods Enzymol** 1996; 272:336-47

Binding free energy calculations for P450cam-substrate complexes. Paulsen MD, et al. **Protein Eng** 1996 Jul; 9(7):567-71

CAMPIMETRY see PERIMETRY

CAMPING

A week in the country: a model respite program. Miller SL, et al. **AIDS Educ Prev** 1996 Apr;8(2):176–86

Insulin requirements and metabolic control in children with diabetes mellitus attending a summer camp. Braatvedt GD, et al. **Diabet Med** 1997 Mar;14(3):258–61

Summer camps for diabetic children: an experience in Campania, Italy. Misuraca A, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1–2):91–6

Evaluation of a summer camp for adolescents with eating disorders [letter] Tonkin RS. **J Adolesc Health** 1997 Jun; 20(6):412–3

The burn camp experience: variables that influence the enhancement of self-esteem. Biggs KS, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):93–8; discussion 92–3

Childhood burns in camping and outdoor cooking accidents: a focus for prevention. Sheridan RL, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):369–71

Effects of Outward Bound Experience as an adjunct to inpatient PTSD treatment of war veterans. Hyer L, et al. **J Clin Psychol** 1996 May;52(3):263–78

Establishing camps as clinical sites. Praeger SG. **J Nurs Educ** 1997 May;36(5):236–7

An asthma day camp. Meng A. **MCN Am J Matern Child Nurs** 1997 May–Jun;22(3):135–41

The challenge of evaluating a child bereavement programme. Stokes J, et al. **Palliat Med** 1997 May;11(3):179–90 (32 ref.)

Varicella exposure at a summer pulmonary camp [letter] Graff GR, et al. **Pediatrics** 1997 Jul;100(1):159

A residential summer camp for children with vertically transmitted HIV/AIDS: a six-year experience at the Hole in the Wall Gang Camp. Pearson HA, et al. **Pediatrics** 1997 Oct;100(4):709–13

Illness and injuries at summer camp. Key JD. **South Med J** 1997 May;90(5):489–92

Health care service at a camp for the developmentally disabled: a four year experience at Wisconsin Badger Camp. Olk DG. **Wis Med J** 1996 Aug;95(8):565–9

PSYCHOLOGY

"You can try or you can just give up": the impact of perceived control and coping style on childhood homesickness. Thurber CA, et al. **Dev Psychol** 1997 May;33(3):508–17

STATISTICS & NUMERICAL DATA

[An outbreak of Sonne dysentery in a children's health-promotion camp] Solodovnikov IuP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):122–3 **(Rus)**

CAMPTOTHECIN

Camptothecin. Discovery to clinic. Wall ME, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:1–12 (28 ref.)

Camptothecin and taxol: from discovery to clinic. Wall ME, et al. **J Ethnopharmacol** 1996 Apr;51(1–3):239–53; discussion 253–4

ADMINISTRATION & DOSAGE

Topoisomerase I inhibitors: the relevance of prolonged exposure for present clinical development. Gerrits CJ, et al. **Br J Cancer** 1997;76(7):952–62 (135 ref.)

Influence of route of administration on [3H]-camptothecin distribution and tumor uptake in CASE-bearing nude mice: whole-body autoradiographic studies. Ahmed AE, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):122–30

Local delivery of chemotherapy and concurrent external beam radiotherapy prolongs survival in metastatic brain tumor models. Ewend MG, et al. **Cancer Res** 1996 Nov 15;56(22):5217–23

Abrogation of an S-phase checkpoint and potentiation of camptothecin cytotoxicity by 7-hydroxystaurosporine (UCN-01) in human cancer cell lines, possibly influenced by p53 function. Shao RG, et al. **Cancer Res** 1997 Sep 15;57(18):4029–35

The suitability of selected new anticancer agents for infusional therapy and the effects of others on infusional therapy practices. Rowinsky EK. **J Infus Chemother** 1995 Fall;5(4):173–8 (60 ref.)

Targeted disruption of the mouse topoisomerase I gene by camptothecin selection. Morham SG, et al. **Mol Cell Biol** 1996 Dec;16(12):6804–9

ADVERSE EFFECTS

Efficacy of camptothecin in progressive multifocal leucoencephalopathy [letter; comment] O'Reilly S. **Lancet** 1997 Jul 26;350(9073):291. Comment on: Lancet 1997 May 10;349(9062):1366.

ANALOGS & DERIVATIVES

Preclinical and clinical development of camptothecins. Costin D, et al. **Adv Pharmacol** 1994;29B:51–72 (120 ref.)

A phase II study of topotecan in patients with recurrent head and neck cancer. Identification of an active new agent. Robert F, et al. **Am J Clin Oncol** 1997 Jun;20(3):298–302

Topotecan approved for cancer chemotherapy [news] **Am J Health Syst Pharm** 1996 Aug 1;53(15):1763–4

Fluorescence detection of the anticancer drug topotecan in plasma and whole blood by two-photon excitation. Burke TG, et al. **Anal Biochem** 1996 Nov 15;242(2):266–70

CPT-11. The European experience. Armand JP, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:282–91 (34 ref.)

Topoisomerase I inhibition by the camptothecin analog GI147211C. From the laboratory to the clinic. Besterman JM. **Ann N Y Acad Sci** 1996 Dec 13;803:202–9 (13 ref.)

Preclinical antitumor activity and pharmacokinetics of irinotecan (CPT-11) in tumor-bearing mice. Bissery MC, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:173–80 (35 ref.)

Clinical studies of topotecan. Broom C. **Ann N Y Acad Sci** 1996 Dec 13;803:264–71 (41 ref.)

Clinical pharmacology and pharmacodynamics of irinotecan. A review. Chabot GG. **Ann N Y Acad Sci** 1996 Dec 13; 803:164–72 (53 ref.)

Induction of apoptosis in malignant and camptothecin-resistant human cells. Chatterjee D, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:143–56

Trials of 9-amino-20(S)-camptothecin in Boston. Eder JP, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:247–55

Treatment of central nervous system xenografts with camptothecins. Friedman HS, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:210–2

Cytotoxic efficacy with combinations of topoisomerase I and topoisomerase II inhibitors in sensitive and multidrug-resistant L1210 mouse leukemia cells. Grabowski D, et al. **Ann N Y Acad Sci** 1996 Dec 13; 803:306–7

Schedule-dependent efficacy of camptothecins in models of human cancer. Houghton PJ, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:188–201

Factors affecting topotecan sensitivity in human leukemia samples. Kaufmann SH, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:128–42 (44 ref.)

Radiation enhancement by 9-aminocamptothecin. Evidence for improved therapeutic ratio with a multiple dose schedule. Kirichenko AV, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:312–4

Pharmacokinetic and pharmacodynamic studies of 9-aminocamptothecin in vitro against human cancer cells. Li M, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:315–7

Camptothecin and its analogs. An overview of their potential in cancer therapeutics. Muggia FM, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:213–23 (71 ref.)

Phase I clinical and pharmacological studies of 20-(S)-camptothecin and 20-(S)-9-nitrocamptothecin as anticancer agents. Natelson EA, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:224–30

9-Aminocamptothecin and beyond. Preclinical and clinical studies. Potmesil M, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:231–46 (48 ref.)

The current status of irinotecan (CPT-11) in the United States. Rothenberg ML. **Ann N Y Acad Sci** 1996 Dec 13; 803:272–81 (18 ref.)

Clinical trials of irinotecan hydrochloride (CPT, campto injection, topotecin injection) in Japan. Saijo N. **Ann N Y Acad Sci** 1996 Dec 13;803:292–305 (39 ref.)

Synthesis of CPT-11 (irinotecan hydrochloride trihydrate). Sawada S, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:13–28

Clinical pharmacology of 9-aminocamptothecin. Takimoto CH, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:324–6

Induction of apoptosis by camptothecin and topotecan. Traganos F, et al. **Ann N Y Acad Sci** 1996 Dec 13; 803:101–10

Topoisomerase-I inhibitors in the management of colon cancer. Willson JK. **Ann N Y Acad Sci** 1996 Dec 13; 803:256–63 (46 ref.)

Rationale for the dosage and schedule of CPT-11 (irinotecan) selected for phase II studies, as determined by European phase I studies. Armand JP, et al. **Ann Oncol** 1996 Oct; 7(8):837–42

Experience with independent radiological review during a topotecan trial in ovarian cancer. Gwyther S, et al. **Ann Oncol** 1997 May;8(5):463–8

A comparison of locoregional depot and systemic preparations of 9-aminocamptothecin for treatment of liver metastases in a rat tumor model: superior antitumor activity of sustained-release preparation. Dookeran KA, et al. **Ann Surg Oncol** 1997 Jun;4(4):355–60

Experimental antitumor activity and pharmacokinetics of the camptothecin analog irinotecan (CPT-11) in mice. Bissery MC, et al. **Anticancer Drugs** 1996 Jun;7(4):437–60

A phase II trial of topotecan in patients with previously untreated pancreatic cancer. O'Reilly S, et al. **Anticancer Drugs** 1996 Jun;7(4):410–4

Effect of CPT-11 in combination with other anticancer agents in lung cancer cells. Pei XH, et al. **Anticancer Drugs** 1997 Mar;8(3):231–7

Modulation of melphalan cytotoxic activity in human melanoma cell lines. Supino R, et al. **Anticancer Drugs** 1996 Jul;7(5):604–12

Efficacy of oral irinotecan against neuroblastoma xenografts. Thompson J, et al. **Anticancer Drugs** 1997 Apr;8(4):313–22

Induction of tumor necrosis factor by a camptothecin derivative, irinotecan, in mice and human mononuclear cells. Goto S, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):2507–11

Interferon-alpha potentiates the antiproliferative activity of CPT-11 against human colon cancer xenografts in nude mice. Kobayashi I, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):2677–80

Cytotoxicity of CPT-11 against a Taxol-resistant cell line. Matsuoka H, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):467–71

Topotecan inhibits human immunodeficiency virus type 1 infection through a topoisomerase-independent mechanism in a cell line with altered topoisomerase I. Zhang JL, et al. **Antimicrob Agents Chemother** 1997 May;41(5):977–81

Stimulation of interleukin-1beta-converting enzyme activity during growth inhibition by CPT-11 in the human myeloid leukemia cell line K562. Shibata Y, et al. **Biochem Mol Med** 1996 Feb;57(1):25–30

Conversion of irinotecan (CPT-11) to its active metabolite, 7-ethyl-10-hydroxycamptothecin (SN-38), by human liver carboxylesterase. Rivory LP, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1103–11

Simultaneous determination of the lactone and carboxylate forms of 7-ethyl-10-hydroxycamptothecin (SN-38), the active metabolite of irinotecan (CPT-11), in rat plasma by high performance liquid chromatography. Kaneda N, et al. **Biol Pharm Bull** 1997 Jul;20(7):815–9

Topotecan, a topoisomerase I inhibitor, is active in the treatment of myelodysplastic syndrome and chronic myelomonocytic leukemia. Beran M, et al. **Blood** 1996 Oct 1;88(7):2473–9

Altered formation of topotecan-stabilized topoisomerase I-DNA adducts in human leukemia cells. Kaufmann SH, et al. **Blood** 1997 Mar 15;89(6):2098–104

The bioavailability of oral GI147211 (GG211), a new topoisomerase I inhibitor. Gerrits CJ, et al. **Br J Cancer** 1997;76(7):946–51

Topoisomerase I inhibitors: the relevance of prolonged exposure for present clinical development. Gerrits CJ, et al. **Br J Cancer** 1997;76(7):952–62 (135 ref.)

Cytotoxic activity of topotecan in human tumour cell lines and primary cultures of human tumour cells from patients. Jonsson E, et al. **Br J Cancer** 1997;76(2):211–9

Influence of low pH on cytotoxicity of paclitaxel, mitoxantrone and topotecan. Vukovic V, et al. **Br J Cancer** 1997;75(8):1167–72

The significance of the sequence of administration of topotecan and etoposide. Bonner JA, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):109–12

Differential toxicity of camptothecin, topotecan and 9-aminocamptothecin to human, canine, and murine myeloid progenitors (CFU-GM) in vitro. Erickson-Miller CL, et al. **Cancer Chemother Pharmacol** 1997;39(5):467–72

Modulation of glucuronidation of SN-38, the active metabolite of irinotecan, by valproic acid and phenobarbital. Gupta E, et al. **Cancer Chemother Pharmacol** 1997;39(5):440–4

Therapeutic efficacy of the topoisomerase I inhibitor 7-ethyl-10-(4-[1-piperidino]-1-piperidino)-carbonyloxy-camptothecin against pediatric and adult central nervous system tumor xenografts. Hare CB, et al. **Cancer Chemother Pharmacol** 1997;39(3):187–91

Differential cytotoxicity of clinically important camptothecin derivatives in P-glycoprotein-overexpressing cell lines. Hoki Y, et al. **Cancer Chemother Pharmacol** 1997; 40(5):433–8

Induction of apoptosis in multi-drug resistant (MDR) human glioblastoma cells by SN-38, a metabolite of the camptothecin derivative CPT-11. Nakatsu S, et al. **Cancer Chemother Pharmacol** 1997;39(5):417–23

A lymphoma cell line resistant to 4-piperidinopiperidine was less sensitive to CPT-11. Onishi Y, et al. **Cancer Chemother Pharmacol** 1997;39(6):473–8

Isolation and structural confirmation of N-desmethyl topotecan, a metabolite of topotecan. Rosing H, et al. **Cancer Chemother Pharmacol** 1997;39(6):498–504

Disposition of irinotecan and SN-38 following oral and intravenous irinotecan dosing in mice. Stewart CF, et al. **Cancer Chemother Pharmacol** 1997;40(3):259–65

Salivary drug monitoring of irinotecan and its active metabolite in cancer patients. Takahashi T, et al. **Cancer Chemother Pharmacol** 1997;40(5):449–52

Phase II trial of topotecan in malignant melanoma. Kraut EH, et al. **Cancer Invest** 1997;15(4):318–20

Interferon potentiates antiproliferative activity of CPT-11 against human colon cancer xenografts. Ohwada S, et al. **Cancer Lett** 1996 Dec 20;110(1–2):149–54

Mammalian DNA topoisomerase I mediates the enhancement of radiation cytotoxicity by camptothecin derivatives. Chen AY, et al. **Cancer Res** 1997 Apr 15;57(8):1529–36

Multiplicity of biliary excretion mechanisms for irinotecan, CPT-11, and its metabolites in rats. Chu XY, et al. **Cancer Res** 1997 May 15;57(10):1934–8

Potentiation of murine MCa-4 carcinoma radioresponse by 9-amino-20(S)-camptothecin. Kirichenko AV, et al. **Cancer Res** 1997 May 15;57(10):1929–33

Factors affecting topotecan-induced programmed cell death: adhesion protects cells from apoptosis and impairs cleavage of poly(ADP-ribose)polymerase. Whitacre CM, et al. **Cancer Res** 1997 Jun 1;57(11):2157–63

Irinotecan (CPT-11): a brief overview. Rivory LP. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov; 23(10–11):1000–4 (29 ref.)

Clinical pharmacokinetics of topotecan. Herben VM, et al. **Clin Pharmacokinet** 1996 Aug;31(2):85–102 (71 ref.)

Irinotecan (CPT-11): pharmacology and clinical applications. Masuda N, et al. **Crit Rev Oncol Hematol** 1996 Sep; 24(1):3–26 (114 ref.)

The clinical status of irinotecan (CPT-11), a novel water soluble camptothecin analogue: 1996. O'Reilly S, et al. **Crit Rev Oncol Hematol** 1996 Sep;24(1):47-70 (206 ref.)

Effects of topoisomerase I inhibition on the expression of topoisomerase II alpha measured with fluorescence image cytometry. Nicklee T, et al. **Cytometry** 1996 Nov 1; 25(3):205-10

Irinotecan. A review of its pharmacological properties and clinical efficacy in the management of advanced colorectal cancer. Wiseman LR, et al. **Drugs** 1996 Oct;52(4):606-23 (66 ref.)

Characterisation and clinical management of CPT-11 (irinotecan)-induced adverse events: the European perspective. Bleiberg H, et al. **Eur J Cancer** 1996;32A Suppl 3:S18-23 (11 ref.)

Current status of colorectal cancer: CPT-11 (irinotecan), a therapeutic innovation. Cunningham D. **Eur J Cancer** 1996; 32A Suppl 3:S1-8 (39 ref.)

Efficacy of CPT-11 (irinotecan) as a single agent in metastatic colorectal cancer. Shimada Y, et al. **Eur J Cancer** 1996;32A Suppl 3:S13-7 (27 ref.)

Future directions for clinical research with CPT-11 (irinotecan). von Hoff D. **Eur J Cancer** 1996;32A Suppl 3:S9-12 (20 ref.)

Antitumor effect of CPT-11, a camptothecin derivative, on human testicular tumor xenografts in nude mice. Miki T, et al. **Eur Urol** 1997;31(1):92-6

Sequential operation of ceramide synthesis and ICE cascade in CPT-11-initiated apoptotic death signaling. Suzuki A, et al. **Exp Cell Res** 1997 May 25;233(1):41-7

Topotecan in platinum- and paclitaxel-resistant ovarian cancer. Swisher EM, et al. **Gynecol Oncol** 1997 Sep; 66(3):480-6

Overcoming CPT-11 resistance by using a biscoclaurine alkaloid, cepharanthine, to modulate plasma trans-membrane potential. Aogi K, et al. **Int J Cancer** 1997 Jul 17;72(2):295-300

CPT-11 in human colon-cancer cell lines and xenografts: characterization of cellular sensitivity determinants. Jansen WJ, et al. **Int J Cancer** 1997 Jan 27;70(3):335-40

DX-8951f, a water-soluble camptothecin analog, exhibits potent antitumor activity against a human lung cancer cell line and its SN-38-resistant variant. Joto N, et al. **Int J Cancer** 1997 Aug 7;72(4):680-6

Results of a trial with topotecan dose escalation and concurrent thoracic radiation therapy for locally advanced, inoperable nonsmall cell lung cancer. Graham MV, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1215-20

Radiation lethality enhancement with 9-aminocamptothecin: comparison to other topoisomerase I inhibitors. Lamond JP, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1; 36(2):369-76 (38 ref.)

Concentration and timing dependence of lethality enhancement between topotecan, a topoisomerase I inhibitor, and ionizing radiation. Lamond JP, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):361-8

Phase II trial of topotecan in advanced or metastatic adenocarcinoma of the pancreas. Scher RM, et al. **Invest New Drugs** 1996;13(4):347-54

Evaluation of topotecan in patients with recurrent for metastatic squamous cell carcinoma of the head and neck. A phase II Southwest Oncology Group study. Smith RE, et al. **Invest New Drugs** 1996;14(4):403-7

Reversed-phase high-performance liquid chromatography method for the simultaneous quantitation of the lactone and carboxylate forms of the novel natural product anticancer agent 10-hydroxycamptothecin in biological fluids and tissues. Li YF, et al. **J Chromatogr B Biomed Appl** 1996 Nov 15;686(2):257-65

Determination of the lactone and lactone plus carboxylate forms of 9-aminocamptothecin in human plasma by sensitive high-performance liquid chromatography with fluorescence detection. Loos WJ, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):435-41

Sensitive high-performance liquid chromatographic fluorescence assay for the quantitation of topotecan (SKF 104864-A) and its lactone ring-opened product (hydroxy acid) in human plasma and urine. Loos WJ, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):309-15

Topotecan, a new active drug in the second-line treatment of small-cell lung cancer: a phase II study in patients with refractory and sensitive disease. The European Organization for Research and Treatment of Cancer Early Clinical Studies Group and New Drug Development Office, and the Lung Cancer Cooperative Group. Ardizzoni A, et al. **J Clin Oncol** 1997 May;15(5):2090-6

Pharmacokinetics and pharmacodynamics of irinotecan during a phase II clinical trial in colorectal cancer. Pharmacology and Molecular Mechanisms Group of the European Organization for Research and Treatment of Cancer. Canal P, et al. **J Clin Oncol** 1996 Oct; 14(10):2688-95

Phase II and pharmacologic study of topotecan administered as a 21-day continuous infusion to patients with colorectal cancer. Creemers GJ, et al. **J Clin Oncol** 1996 Sep; 14(9):2540-5

Phase I and pharmacologic study of oral topotecan administered twice daily for 21 days to adult patients with solid tumors. Creemers GJ, et al. **J Clin Oncol** 1997 Mar; 15(3):1087-93

Topotecan, an active drug in the second-line treatment of epithelial ovarian cancer: results of a large European phase II study [see comments] Creemers GJ, et al. **J Clin Oncol** 1996 Dec;14(12):3056-61. Comment in: J Clin Oncol 1996 Dec;14(12):3053-5.

Pharmacokinetic and pharmacodynamic evaluation of the topoisomerase inhibitor irinotecan in cancer patients. Gupta E, et al. **J Clin Oncol** 1997 Apr;15(4):1502-10

Topotecan today [editorial; comment] Lynch T. **J Clin Oncol** 1996 Dec;14(12):3053-5. Comment on: J Clin Oncol 1996 Dec;14(12):3056-61. Comment on: J Clin Oncol 1996 Dec;14(12):3062-73. Comment on: J Clin Oncol 1996 Dec;14(12):3074-84.

High dose-intensity of irinotecan administered every 3 weeks in advanced cancer patients: a feasibility study. Merrouche Y, et al. **J Clin Oncol** 1997 Mar;15(3):1080-6

Phase I and pharmacologic study of topotecan in patients with impaired renal function [see comments] O'Reilly S, et al. **J Clin Oncol** 1996 Dec;14(12):3062-73. Comment in: J Clin Oncol 1996 Dec;14(12):3053-5.

Phase II trial of 9-aminocamptothecin administered as a 72-hour continuous infusion in metastatic colorectal carcinoma. Pazdur R, et al. **J Clin Oncol** 1997 Aug; 15(8):2905-9

Treatment of patients with small-cell lung cancer refractory to etoposide and cisplatin with the topoisomerase I poison topotecan. Perez-Soler R, et al. **J Clin Oncol** 1996 Oct; 14(10):2785-90

Phase II trial of irinotecan in patients with metastatic colorectal carcinoma. Pitot HC, et al. **J Clin Oncol** 1997 Aug;15(8):2910-9

Phase II study of irinotecan in the treatment of advanced colorectal cancer in chemotherapy-naive patients and patients pretreated with fluorouracil-based chemotherapy. Rougier P, et al. **J Clin Oncol** 1997 Jan;15(1):251-60

Pharmacodynamics and pharmacokinetics of a 72-hour infusion of 9-aminocamptothecin in adult cancer patients. Takimoto CH, et al. **J Clin Oncol** 1997 Apr;15(4):1492-501

Topotecan versus paclitaxel for the treatment of recurrent epithelial ovarian cancer [see comments] ten Bokkel Huinink W, et al. **J Clin Oncol** 1997 Jun;15(6):2183-93. Comment in: J Clin Oncol 1997 Jun;15(6):2177-80.

Phase II study of irinotecan in prior chemotherapy-treated squamous cell carcinoma of the cervix. Verschraegen CF, et al. **J Clin Oncol** 1997 Feb;15(2):625-31

MM3(96) parameterization for camptothecin analogs: an ab initio and molecular mechanics study. Carrigan SW, et al. **J Comput Aided Mol Des** 1997 Jan;11(1):61-70

Comparative molecular field analysis and molecular modeling studies of 20-(S)-camptothecin analogs as inhibitors of DNA topoisomerase I and anticancer/antitumor agents. Carrigan SW, et al. **J Comput Aided Mol Des** 1997 Jan; 11(1):71-8

The suitability of selected new anticancer agents for infusional therapy and the effects of others on infusional therapy practices. Rowinsky EK. **J Infus Chemother** 1995 Fall;5(4):173-8 (60 ref.)

CPT-11: the European clinical development. Terret C, et al. **J Infus Chemother** 1996 Summer;6(3):152-7 (44 ref.)

Camptothecin and minor-groove binder hybrid molecules: synthesis, inhibition of topoisomerase I, and anticancer cytotoxicity in vitro. Zhao R, et al. **J Med Chem** 1997 Jan 17;40(2):216-25

Phase I trial and pharmacokinetic (PK) and pharmacodynamics (PD) study of topotecan using a five-day course in children with refractory solid tumors: a pediatric oncology group study. Tubergen DG, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):352-61

The impact of column temperature in the high performance liquid chromatographic analysis of topotecan in rat and dog plasma. Rosing H, et al. **J Pharm Biomed Anal** 1996 Nov;15(2):279-86

Determination of GI147211 in human blood by HPLC with fluorescence detection. Selinger K, et al. **J Pharm Biomed Anal** 1995 Nov;13(12):1521-30

Multispecific organic anion transporter is responsible for the biliary excretion of the camptothecin derivative irinotecan and its metabolites in rats. Chu XY, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):304-14

No alteration in DNA topoisomerase I gene related to CPT-11 resistance in human lung cancer. Ohashi N, et al. **Jpn J Cancer Res** 1996 Dec;87(12):1280-7

Effect of CPT-11 on lipid peroxide level in mouse tissues. Sadzuka Y, et al. **Jpn J Cancer Res** 1997 May;88(5):512-6

Enhancement of tumor radio-response by irinotecan in human lung tumor xenografts. Tamura K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):218-23

Efficacy of camptothecin in progressive multifocal leucoencephalopathy [letter; comment] O'Reilly S. **Lancet** 1997 Jul 26;350(9073):291. Comment on: Lancet 1997 May 10;349(9062):1366.

Irinotecan for metastatic colorectal cancer. **Med Lett Drugs Ther** 1997 Jan 17;39(992):8

Topotecan hydrochloride for metastatic ovarian cancer. **Med Lett Drugs Ther** 1996 Oct 25;38(986):96-7

Antitumor effect of CPT-11, a new derivative of camptothecin, against human prostate cancer (PC-3) in vitro and prostate rat tumor (AT-3) in vivo. Lievano G, et al. **Methods Find Exp Clin Pharmacol** 1996 Dec; 18(10):659-62

The transformation of irinotecan (CPT-11) to its active metabolite SN-38 by human liver microsomes. Differential hydrolysis for the lactone and carboxylate forms. Haaz MC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):257-62

Liposomal encapsulation increases the activity of the topoisomerase I inhibitor topotecan. Subramanian D, et al. **Oncol Res** 1995;7(9):461-9

Irinotecan shown to be effective against colorectal cancer [news] **Oncology (Huntingt)** 1996 Mar;10(3):417-21

Topotecan demonstrates significant activity in small-cell lung cancer [news] **Oncology (Huntingt)** 1996 Mar;10(3):422-3

Topotecan's potency linked to presence of albumin [news] **Oncology (Huntingt)** 1996 Feb;10(2):254

Topotecan demonstrates significant activity in recurrent small-cell lung cancer [news] **Oncology (Huntingt)** 1996 Jan;10(1):111

Hycamtin achieves promising results in study of patients with leukemia [news] **Oncology (Huntingt)** 1996 Dec;10(12):1860

Clinical trials at the medicine branch of the NCI-part 2. Cheson BD, et al. **Oncology (Huntingt)** 1995 Jun;9(6):506, 509-10

Identification and characterization of the sulfate precipitate in GI147211C IV formulation. Tong WQ, et al. **PDA J Pharm Sci Technol** 1996 Sep-Oct;50(5):326-9

Glucuronidation of SN-38, the active metabolite of irinotecan, by human hepatic microsomes. Haaz MC, et al. **Pharmacol Toxicol** 1997 Feb;80(2):91-6

SN-38, a metabolite of the camptothecin derivative CPT-11, potentiates the cytotoxic effect of radiation in human colon adenocarcinoma cells grown as spheroids. Omura M, et al. **Radiother Oncol** 1997 May;43(2):197-201

An overview of the clinical pharmacology of topotecan. Dennis MJ, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 5):S5-12-S5-18 (34 ref.)

New options for the treatment of advanced ovarian cancer. Dunton CJ. **Semin Oncol** 1997 Feb;24(1 Suppl 5):S5-2-S5-11 (65 ref.)

Topotecan: an important new drug in the management of ovarian cancer. Markman M. **Semin Oncol** 1997 Feb;24(1 Suppl 5):S5-1

Topotecan and the treatment of recurrent ovarian cancer: is there a role for granulocyte colony-stimulating factor? Saltz L, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 5):S5-26-S5-30 (24 ref.)

Efficacy and safety of topotecan in the treatment of advanced ovarian carcinoma. ten Bokkel Huinink W, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 5):S5-19-S5-25 (25 ref.)

CPT-11 (irinotecan) in the treatment of colorectal cancer: a new mechanism of action for additional activity. Bleiberg H. **Tumori** 1997 Jan-Feb;83(1 Suppl):S85-6 (13 ref.)

[Topotecan--a new principle of effectiveness in oncology. 4th Salzburg Symposium on Quality of Life. 15-17 December 1995] **Geburtshilfe Frauenheilkd** 1996 Jun;56(6 Suppl):1-6 **(Ger)**

[Topoisomerase I inhibitor with potential radiosensitizing effect] Sauer R, et al. **Strahlenther Onkol** 1997 Mar; 173(3):125-30 (39 ref.) (Eng. Abstr.) **(Ger)**

[New drugs. Topoisomerase inhibitors] Gutzler F. **Zentralbl Gynakol** 1996;118(10):579 **(Ger)**

[A case of recurrent advanced colon cancer treated with CPT-11 for second-line chemotherapy] Kawabe S, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1315-9 (Eng. Abstr.) **(Jpn)**

[DNA topoisomerases targeting anticancer agents and mechanism for acquirement of drug resistance] Furukawa M, et al. **Nippon Rinsho** 1997 May;55(5):1096-102 (20 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Chemistry of the camptothecins in the bloodstream. Drug stabilization and optimization of activity. Burke TG. **Ann N Y Acad Sci** 1996 Dec 13;803:29-31

Simple and versatile high-performance liquid chromatographic method for the simultaneous quantitation of the lactone and carboxylate forms of camptothecin anticancer drugs. Warner DL, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):161-71

CHEMICAL SYNTHESIS

Failure in DNA elongation predicts sensitivity to camptothecin in the colon cell lines of the NCI Anticancer Drug Screen. Goldwasser F, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:308-9

CHEMISTRY

Structure-activity relation in camptothecin antitumor drugs: why a detailed molecular characterisation of their lactone and carboxylate forms by Raman and SERS spectroscopies? Chourpa I, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):349-60

Interactions of lactone, carboxylate and self-aggregated forms of camptothecin with human and bovine serum albumins. Fleury F, et al. **FEBS Lett** 1997 Apr 7; 406(1-2):151-6

METABOLISM

DNA topoisomerase I changes the mode of interaction between camptothecin drugs and DNA as probed by UV-resonance Raman spectroscopy. Feofanov AV, et al. **FEBS Lett** 1996 Nov 4;396(2-3):289-92

Camptothecin-binding site in human serum albumin and protein transformations induced by drug binding. Fleury F, et al. **FEBS Lett** 1997 Jul 14;411(2-3):215-20

Sustained harvest of camptothecin from the leaves of Camptotheca acuminata. Vincent RM, et al. **J Nat Prod** 1997 Jun;60(6):618–9

PHARMACOKINETICS

Pharmacokinetics of camptothecins administered orally. Liehr JG, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:157–63 (19 ref.)

Influence of route of administration on [3H]–camptothecin distribution and tumor uptake in CASE–bearing nude mice: whole–body autoradiographic studies. Ahmed AE, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):122–30

PHARMACOLOGY

Drug resistance mechanisms of topoisomerase I drugs. Andoh T, et al. **Adv Pharmacol** 1994;29B:93–103 (40 ref.)

Mechanisms of topoisomerase I inhibition by anticancer drugs. Pommier Y, et al. **Adv Pharmacol** 1994;29B:73–92 (120 ref.)

The Camptothecins: From Discovery to the Patient. Proceedings of a conference. Bethesda, Maryland, February 7–10, 1996. **Ann N Y Acad Sci** 1996 Dec 13; 803:1–335

The effect of camptothecin on topoisomerase I catalysis. Christiansen K, et al. **Ann N Y Acad Sci** 1996 Dec 13; 803:50–9

The cell cycle effects of camptothecin. Darzynkiewicz Z, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:93–100 (30 ref.)

Identification of topoisomerase I mutations affecting both DNA cleavage and interaction with camptothecin. Li XG, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:111–27

Mechanism of action of camptothecin. Liu LF, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:44–9 (14 ref.)

Camptothecin resistance related to drug–induced down–regulation of topoisomerase I and to steps occurring after the formation of protein–linked DNA breaks. Murren JR, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:74–92 (64 ref.)

Cellular resistance to camptothecins. Pommier Y, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:60–73 (126 ref.)

Lowered phosphorylation of topoisomerase I is a direct reason for reduced sensitivity of L5178Y–S cells to camptothecin. Staron K, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:321–3

Induction of apoptosis by camptothecin and topotecan. Traganos F, et al. **Ann N Y Acad Sci** 1996 Dec 13; 803:101–10

Camptothecin exhibits selective cytotoxicity towards human breast carcinoma as compared to normal bovine endothelial cells in vitro. Clements MK, et al. **Anticancer Drugs** 1996 Nov;7(8):851–7

Interactions between taxol and camptothecin. Debernardis D, et al. **Anticancer Drugs** 1996 Jul;7(5):531–4

Differences in the topoisomerase I cleavage complexes formed by camptothecin and wakayin, a DNA–intercalating marine natural product. Kokoshka JM, et al. **Anticancer Drugs** 1996 Sep;7(7):758–65

Enhancement of UV–A–induced cytotoxicity to cancer cell lines by camptothecin. Kojima S, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):241–6

Involvement of amino acids 361 to 364 of human topoisomerase I in camptothecin resistance and enzyme catalysis. Li XG, et al. **Biochem Pharmacol** 1997 Apr 4; 53(7):1019–27

pH–dependent regulation of camptothecin–induced cytotoxicity and cleavable complex formation by the antimalarial agent chloroquine. Sorensen M, et al. **Biochem Pharmacol** 1997 Aug 1;54(3):373–80

Induction of apoptosis within T lymphoblastoid cells by a topoisomerase I inhibitor. Johnson N, et al. **Biochem Soc Trans** 1997 May;25(2):240S

The human cell multiprotein DNA replication complex (MRC): the effect of camptothecin on its ability to support in vitro DNA synthesis. Coll JM, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):97–102

Differential cytotoxicity of clinically important camptothecin derivatives in P–glycoprotein–overexpressing cell lines. Hoki Y, et al. **Cancer Chemother Pharmacol** 1997; 40(5):433–8

Mammalian DNA topoisomerase I mediates the enhancement of radiation cytotoxicity by camptothecin derivatives. Chen AY, et al. **Cancer Res** 1997 Apr 15;57(8):1529–36

Correlations between S and G2 arrest and the cytotoxicity of camptothecin in human colon carcinoma cells. Goldwasser F, et al. **Cancer Res** 1996 Oct 1;56(19):4430–7

Identification of mutations at DNA topoisomerase I responsible for camptothecin resistance. Wang LF, et al. **Cancer Res** 1997 Apr 15;57(8):1516–22

Down–regulation of DNA replication in extracts of camptothecin–treated cells: activation of an S–phase checkpoint? Wang Y, et al. **Cancer Res** 1997 May 1; 57(9):1654–9

Image cytometry of early nuclear events during apoptosis induced by camptothecin in HL–60 leukemic cells. Palissot V, et al. **Cytometry** 1996 Dec 1;25(4):341–8

Anti–BrdUrd labeling of newly synthesized DNA in HL–60 cells triggered to apoptosis. Zamai L, et al. **Cytometry** 1996 Dec 1;25(4):324–32

Glucose–regulated stresses induce resistance to camptothecin in human cancer cells. Tomida A, et al. **Int J Cancer** 1996 Nov 4;68(3):391–6

Sequence of treatment is important in the modification of camptothecin induced cell killing by hyperthermia. Ng CE, et al. **Int J Hyperthermia** 1996 Sep–Oct;12(5):663–78; discussion 679–80

Ubiquitin–dependent destruction of topoisomerase I is stimulated by the antitumor drug camptothecin. Desai SD, et al. **J Biol Chem** 1997 Sep 26;272(39):24159–64

Selective induction of apoptosis in Hep 3B cells by topoisomerase I inhibitors: evidence for a protease–dependent pathway that does not activate cysteine protease P32. Adjei PN, et al. **J Clin Invest** 1996 Dec 1; 98(11):2588–96

G1/S cell cycle blockers and inhibitors of cyclin–dependent kinases suppress camptothecin–induced neuronal apoptosis. Park DS, et al. **J Neurosci** 1997 Feb 15;17(4):1256–70

Camptothecin–induced apoptosis in p53–null human leukemia HL60 cells and their isolated nuclei: effects of the protease inhibitors Z–VAD–fmk and dichloroisocoumarin suggest an involvement of both caspases and serine proteases. Shimizu T, et al. **Leukemia** 1997 Aug;11(8):1238–44

Acquired camptothecin resistance of human breast cancer MCF–7/C4 cells with normal topoisomerase I and elevated DNA repair. Fujimori A, et al. **Mol Pharmacol** 1996 Dec; 50(6):1472–8

Novel 7–alkyl methylenedioxy–camptothecin derivatives exhibit increased cytotoxicity and induce persistent cleavable complexes both with purified mammalian topoisomerase I and in human colon carcinoma SW620 cells. Valenti M, et al. **Mol Pharmacol** 1997 Jul;52(1):82–7

Cisplatin, camptothecin, and taxol sensitivities of cells with p53–associated multidrug resistance. Vasey PA, et al. **Mol Pharmacol** 1996 Dec;50(6):1536–40

Protein tyrosine phosphatase–dependent activation of beta–globin and delta–aminolevulinic acid synthase genes in the camptothecin–induced IW32 erythroleukemia cell differentiation. Wang MC, et al. **Mol Pharmacol** 1997 Apr; 51(4):558–66

Silencing and selective methylation of the normal topoisomerase I gene in camptothecin–resistant CEM/C2 human leukemia cells. Fujimori A, et al. **Oncol Res** 1996; 8(7–8):295–301

Differential GADD45, p21CIP1/WAF1, MCL–1 and topoisomerase II gene induction and secondary DNA fragmentation after camptothecin–induced DNA damage in two mutant p53 human colon cancer cell lines. Goldwasser F, et al. **Oncol Res** 1996;8(7–8):317–23

Modulation of the effect of camptothecin in x–irradiated L5178Y–R and L5178Y–S cells by benzamide. Grądzka I, et al. **Radiat Environ Biophys** 1996 Aug;35(3):185–91

[Camptothecin and derivatives: a new class of antitumor agents] Torck M, et al. **J Pharm Belg** 1996 Jul–Aug; 51(4):200–7 (82 ref.) (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Design of topoisomerase inhibitors to overcome MDR1–mediated drug resistance. Chen AY, et al. **Adv Pharmacol** 1994;29B:245–56 (30 ref.)

Protocols for the treatment of human tumor xenografts with camptothecins. Giovanella BC, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:181–7 (15 ref.)

Camptothecin and its analogs. An overview of their potential in cancer therapeutics. Muggia FM, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:213–23 (71 ref.)

Phase I clinical and pharmacological studies of 20–(S)–camptothecin and 20–(S)–9–nitrocamptothecin as anticancer agents. Natelson EA, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:224–30

Implications for the use of topoisomerase I inhibitors in treatment of patients with systemic sclerosis. Rudnicka L, et al. **Ann N Y Acad Sci** 1996 Dec 13;803:318–20

Enhancement of the antitumor effect of gamma–ray irradiation in combination with camptothecin against human colorectal adenocarcinoma. Wang DS, et al. **Biol Pharm Bull** 1996 Mar;19(3):354–9

Discrepancy between the initial DNA damage and cell survival after camptothecin treatment in two murine lymphoma L5178Y sublines. Grądzka I, et al. **Cell Biochem Funct** 1996 Sep;14(3):163–71

Efficacy of camptothecin in progressive multifocal leucoencephalopathy [letter] [see comments] Vollmer–Haase J, et al. **Lancet** 1997 May 10;349(9062):1366 . Comment in: Lancet 1997 Jul 26;350(9073):291.

[New drugs. Topoisomerase inhibitors] Gutzler F. **Zentralbl Gynakol** 1996;118(10):579 **(Ger)**

TOXICITY

Apoptosis of androgen–independent mammary and prostate cell lines induced by topoisomerase inhibitors: common pathway of gene regulation. Furuya Y, et al. **Anticancer Res** 1997 May–Jun;17(3C):2089–93

Differential toxicity of camptothecin, topotecan and 9–aminocamptothecin to human, canine, and murine myeloid progenitors (CFU–GM) in vitro. Erickson–Miller CL, et al. **Cancer Chemother Pharmacol** 1997;39(5):467–72

Apoptosis–resistant phenotype selected by alternating exposure to camptothecin and etoposide. Kubota M, et al. **Exp Cell Res** 1997 Aug 25;235(1):138–44

Camptothecin sensitivity is mediated by the pleiotropic drug resistance network in yeast. Reid RJ, et al. **J Biol Chem** 1997 May 2;272(18):12091–9

Mechanisms of cell killing by drugs that trap covalent complexes between DNA topoisomerases and DNA. Nitiss JL, et al. **Mol Pharmacol** 1996 Nov;50(5):1095–102

CAMPYLOBACTER

CHEMISTRY

Purification and characterization of Campylobacter rectus surface layer proteins. Nitta H, et al. **Infect Immun** 1997 Feb;65(2):478–83

CLASSIFICATION

Diversity of Campylobacter species and its impact on patients infected with human immunodeficiency virus [editorial; comment] Quinn TC. **Clin Infect Dis** 1997 Jun;24(6):1114–7 . Comment on: Clin Infect Dis 1997 Jun;24(6):1107–13.

RAPD analysis of environmental, food and clinical isolates of Campylobacter spp. Hilton AC, et al. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):119–24

Genotypic diversity of Campylobacter lari isolated from mussels and oysters in The Netherlands. Endtz HP, et al. **Int J Food Microbiol** 1997 Jan;34(1):79–88

A probability matrix for the identification of campylobacters, helicobacters and allied taxa. On SL, et al. **J Appl Bacteriol** 1996 Oct;81(4):425–32

Phenotypic and ribosomal RNA characterization of Arcobacter species isolated from porcine aborted fetuses. Schroeder–Tucker L, et al. **J Vet Diagn Invest** 1996 Apr; 8(2):186–95

Biotyping of Campylobacter strains isolated in Lagos, Nigeria using the modified Preston biotype. Smith SI, et al. **Z Naturforsch [C]** 1997 Mar–Apr;52(3–4):259–63

DRUG EFFECTS

Quinolone resistance and Campylobacter species [letter] Bowler IC, et al. **J Antimicrob Chemother** 1996 Aug; 38(2):315

Quinolone resistance and Campylobacter spp. Piddock LJ. **J Antimicrob Chemother** 1995 Dec;36(6):891–8 (41 ref.)

Simultaneous identification of campylobacters and prediction of quinolone resistance by comparative sequence analysis. Husmann M, et al. **J Clin Microbiol** 1997 Sep; 35(9):2398–400

Disc susceptibility testing for thermomphilic campylobacters. Huysmans MB, et al. **Pathology** 1997 May;29(2):209–16

[The antibiotic susceptibility of Campylobacter strains isolated in Moldova. The possibilities for estimation and the results] Sicinschi L. **Bacteriol Virusol Parazitol Epidemiol** 1996 Jul–Dec; 41(3–4):123–9 (Eng. Abstr.) **(Rum)**

ENZYMOLOGY

Pyruvate metabolism in Campylobacter spp. Mendz GL, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):291–302

GENETICS

RAPD analysis of environmental, food and clinical isolates of Campylobacter spp. Hilton AC, et al. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):119–24

Pulsed–field gel electrophoresis indicates genotypic heterogeneity among Campylobacter upsaliensis strains. Bourke B, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):57–61

Characterization of Campylobacter upsaliensis fur and its localization in a highly conserved region of the Campylobacter genome. Bourke B, et al. **Gene** 1996 Dec 12;183(1–2):219–24

A genetic locus involved in iron utilization unique to some Campylobacter strains. Guerry P, et al. **J Bacteriol** 1997 Jun;179(12):3997–4002

A molecular scheme based on 23S rRNA gene polymorphisms for rapid identification of Campylobacter and Arcobacter species. Hurtado A, et al. **J Clin Microbiol** 1997 Sep;35(9):2401–4

Simultaneous identification of campylobacters and prediction of quinolone resistance by comparative sequence analysis. Husmann M, et al. **J Clin Microbiol** 1997 Sep; 35(9):2398–400

Molecular discrimination between Campylobacter jejuni, Campylobacter coli, Campylobacter lari and Campylobacter upsaliensis by polymerase chain reaction based on a novel putative GTPase gene. van Doorn LJ, et al. **Mol Cell Probes** 1997 Jun;11(3):177–85

GROWTH & DEVELOPMENT

Relationship between aerobic bacteria, salmonellae and Campylobacter on broiler carcasses. Cason JA, et al. **Poult Sci** 1997 Jul;76(7):1037–41

IMMUNOLOGY

Anti–bacterial antibodies in Behçet's disease [letter] Iannone F, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):451–2

Immunological detection of lipopolysaccharide antigens of thermophilic campylobacters captured on polymyxin–coated polyester cloth. Gomi K, et al. **Immunol Invest** 1996 May;25(3):177–83

False–positive legionella titres in routine clinical serology testing detected by absorption with campylobacter: implications for the serological diagnosis of legionnaires' disease. Boswell TC, et al. **J Infect** 1996 Jan;32(1):23–6

CAMPYLOBACTER

ISOLATION & PURIFICATION

Campylobacter spp. and Salmonella spp. in black-headed gulls (Larus ridibundus). Sixl W, et al. **Cent Eur J Public Health** 1997 Mar;5(1):24–6

Identification methods for campylobacters, helicobacters, and related organisms. On SL. **Clin Microbiol Rev** 1996 Jul; 9(3):405–22 (198 ref.)

Isolation of Campylobacter species from Zambian patients with acute diarrhoea. Luo NP, et al. **East Afr Med J** 1996 Jun;73(6):395–6

Campylobacter incidence on a chicken farm and the spread of Campylobacter during the slaughter process. Berndtson E, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):35–47

Characterization of monoclonal antibodies for the rapid detection of foodborne campylobacters. Lu P, et al. **Int J Food Microbiol** 1997 Jun 17;37(1):87–91

Prevalence of thermophilic Campylobacter and Arcobacter butzleri in food of animal origin. Zanetti F, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):315–21

A novel polymerase chain reaction assay for the detection and speciation of thermophilic Campylobacter spp. Jackson CJ, et al. **J Appl Bacteriol** 1996 Nov;81(5):467–73

A molecular scheme based on 23S rRNA gene polymorphisms for rapid identification of Campylobacter and Arcobacter species. Hurtado A, et al. **J Clin Microbiol** 1997 Sep;35(9):2401–4

Isolation of Campylobacter concisus from feces of children with and without diarrhea. Van Etterijck R, et al. **J Clin Microbiol** 1996 Sep;34(9):2304–6

Detection of enterotoxigenic Escherichia coli, Shigella and Campylobacter spp. by multiplex PCR assay. Oyofo BA, et al. **J Diarrhoeal Dis Res** 1996 Sep;14(3):207–10

Phenotypic and ribosomal RNA characterization of Arcobacter species isolated from porcine aborted fetuses. Schroeder-Tucker L, et al. **J Vet Diagn Invest** 1996 Apr; 8(2):186–95

Proliferative enteropathy of rabbits: the intracellular Campylobacter-like organism is closely related to Lawsonia intracellularis. Hotchkiss CE, et al. **Lab Anim Sci** 1996 Dec;46(6):623–7

Hemolytic-uremic syndrome associated with acute Campylobacter upsaliensis gastroenteritis [letter] Carter JE, et al. **Nephron** 1996;74(2):489

Rapid identification by PCR of the genus Campylobacter and of five Campylobacter species enteropathogenic for man and animals. Linton D, et al. **Res Microbiol** 1996 Nov-Dec;147(9):707–18

A simple and inexpensive method to generate a microaerophilic atmosphere for the isolation of Campylobacter sp. Hernández F. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):241–2

Carriage of the classical thermotolerant Campylobacters in healthy domestic animals from eastern Peru. Tresierra-Ayala A, et al. **Rev Inst Med Trop Sao Paulo** 1995 Nov-Dec;37(6):537–9

Aetiology of acute diarrhoea in hospitalized children in Hong Kong. Biswas R, et al. **Trop Med Int Health** 1996 Oct; 1(5):679–83

Erythromycin resistance of Campylobacter isolates from pigs [letter; comment] Davies P, et al. **Vet Rec** 1996 Sep 7; 139(10):244. Comment on: Vet Rec 1996 Mar 30;138(13):306–7.

Campylobacter and Salmonella contaminating fresh chicken meat. Geilhausen B, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):241–5

Rapid and sensitive detection of Campylobacter spp. from chicken using the polymerase chain reaction. Oyofo BA, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):480–5

Occurrence of thermotolerant Campylobacter species in domestic and wild monkeys from Peru. Tresierra-Ayala A, et al. **Zentralbl Veterinarmed [B]** 1997 Mar;44(1):61–4

[Occurrence of Campylobacter spp among food handlers in hospital kitchens in urban areas of the southern region of Brazil] Tosin I, et al. **Rev Saude Publica** 1995 Dec; 29(6):472–7 (Eng. Abstr.) **(Por)**

[Isolation of Campylobacter sputorum biovar sputorum from a bed sore (letter)] Josebe Unzaga M, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):43 **(Spa)**

[Isolation of thermotolerant species of Campylobacter from 2 populations of chickens bred in confinement and at liberty] Tresierra-Ayala A, et al. **Rev Saude Publica** 1995 Oct;29(5):389–92 (Eng. Abstr.) **(Spa)**

METABOLISM

Toxin production by Campylobacter spp. Wassenaar TM. **Clin Microbiol Rev** 1997 Jul;10(3):466–76

Hydrophobic characterization of thermophilic Campylobacter species and adhesion to INT 407 cell membranes and fibronectin. Moser I, et al. **Microb Pathog** 1997 Mar;22(3):155–64

PATHOGENICITY

An environmentally regulated pilus-like appendage involved in Campylobacter pathogenesis. Dolg P, et al. **Mol Microbiol** 1996 May;20(4):885–94

In vitro demonstration of the invasive ability of Campylobacters. Tay ST, et al. **Zentralbl Bakteriol** 1996 Mar;283(3):306–13

[The cytopathogenic activity of Campylobacter isolated from different sources] Kirik DL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan-Feb;(1):20–2 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Adherence to lipids and intestinal mucin by a recently recognized human pathogen, Campylobacter upsaliensis. Sylvester FA, et al. **Infect Immun** 1996 Oct;64(10):4060–6

Contribution of IL-1 beta to the enhancement of Campylobacter rectus lipopolysaccharide-stimulated PGE2 production in old gingival fibroblasts in vitro. Takiguchi H, et al. **Mech Ageing Dev** 1997 Oct;98(1):75–90

CAMPYLOBACTER COLI

[The role of the "milk" factor in the transmission of Campylobacter infection] Kirik DL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):30–3 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

The serotype distribution of Campylobacter jejuni and C. coli isolated from patients with diarrhoea and controls at Tikur Anbassa Hospital, Addis Ababa, Ethiopia. Asrat DA, et al. **Epidemiol Infect** 1997 Apr;118(2):91–5

Application of the Mast resistotyping scheme to Campylobacter jejuni and C. coli. Owen RJ, et al. **J Med Microbiol** 1997 Jan;46(1):34–8

DRUG EFFECTS

Antimicrobial susceptibilities of Campylobacter jejuni and Campylobacter coli to 12 beta-lactam agents and combinations with beta-lactamase inhibitors. Tajada P, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1924–5

Comparison of disc diffusion and agar dilution methods for antibiotic susceptibility testing of Campylobacter jejuni subsp. jejuni and Campylobacter coli. Gaudreau C, et al. **J Antimicrob Chemother** 1997 Jun;39(6):707–12

GENETICS

A combined polymerase chain reaction and restriction endonuclease enzyme assay for discriminating between Campylobacter coli and Campylobacter jejuni. Comi G, et al. **FEMS Immunol Med Microbiol** 1996 Nov;16(1):45–9

Molecular characterization of pldA, the structural gene for a phospholipase A from Campylobacter coli, and its contribution to cell-associated hemolysis. Grant KA, et al. **Infect Immun** 1997 Apr;65(4):1172–80

The flgE gene of Campylobacter coli is under the control of the alternative sigma factor sigma54. Kinsella N, et al. **J Bacteriol** 1997 Aug;179(15):4647–53

Integration of heterologous plasmid DNA into multiple sites on the genome of Campylobacter coli following natural transformation. Richardson PT, et al. **J Bacteriol** 1997 Mar; 179(5):1809–12

Specific identification of the enteropathogens Campylobacter jejuni and Campylobacter coli by using a PCR test based on the ceuE gene encoding a putative virulence determinant. Gonzalez I, et al. **J Clin Microbiol** 1997 Mar; 35(3):759–63

Differentiation of Campylobacter jejuni and Campylobacter coli by polymerase chain reaction. Harmon KM, et al. **Mol Cell Probes** 1997 Jun;11(3):195–200

Identification and characterization of genes required for post-translational modification of Campylobacter coli VC167 flagellin. Guerry P, et al. **Mol Microbiol** 1996 Jan; 19(2):369–78

PCR-mediated DNA fingerprinting of atypical campylobacter strains isolated from surface and drinking water. Jacob J, et al. **Zentralbl Bakteriol** 1996 Sep; 285(1):106–12

IMMUNOLOGY

Campylobacter-host cell interactions. Wooldridge KG, et al. **Trends Microbiol** 1997 Mar;5(3):96–102 (46 ref.)

ISOLATION & PURIFICATION

Development of a rapid and specific colony-lift immunoassay for detection and enumeration of Campylobacter jejuni, C. coli, and C. lari. Rice BE, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):669–77

A combined polymerase chain reaction and restriction endonuclease enzyme assay for discriminating between Campylobacter coli and Campylobacter jejuni. Comi G, et al. **FEMS Immunol Med Microbiol** 1996 Nov;16(1):45–9

A novel polymerase chain reaction assay for the detection and speciation of thermophilic Campylobacter spp. Jackson CJ, et al. **J Appl Bacteriol** 1996 Nov;81(5):467–73

Restriction endonuclease analysis, DNA relatedness and phenotypic characterization of Campylobacter jejuni and Camp. coli isolates involved in food-borne disease. Jiménez A, et al. **J Appl Microbiol** 1997 Jun;82(6):713–21

Indwelling device-related bacteremia caused by serum-susceptible Campylobacter coli. Hsueh PR, et al. **J Clin Microbiol** 1997 Aug;35(8):2178–80

METABOLISM

Characterization of a post-translational modification of Campylobacter flagellin: identification of a sero-specific glycosyl moiety. Doig P, et al. **Mol Microbiol** 1996 Jan; 19(2):379–87

PATHOGENICITY

Enterotoxigenic capacity of Campylobacter coli strains isolated from humans and bovines. Tresierra-Ayala A, et al. **Mem Inst Oswaldo Cruz** 1996 Sep-Oct;91(5):619–20

Pathogenesis of enteric infection by Campylobacter. Ketley JM. **Microbiology** 1997 Jan;143 (Pt 1):5–21 (80 ref.)

CAMPYLOBACTER FETUS

Infective endocarditis caused by Campylobacter fetus after allogeneic tooth transplantation: a case report. Abe K, et al. **Br J Oral Maxillofac Surg** 1996 Jun;34(3):230–4

Infected subdural effusion associated with resolving subdural hematoma--case report. Aoki N, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):637–9

Campylobacter fetus subsp. fetus cholecystitis in a patient with advanced hepatocellular carcinoma. Takatsu M, et al. **Scand J Infect Dis** 1997;29(2):197–8

[Campylobacter fetus meningitis in adults] Wilhelm JM, et al. **Presse Med** 1996 Oct 5;25(29):1331–2 (Eng. Abstr.) **(Fre)**

[A study of 30 patients with bacteremia due to Campylobacter spp.] Font C, et al. **Med Clin (Barc)** 1997 Mar 8;108(9):336–40 (Eng. Abstr.) **(Spa)**

[Spontaneous bacterial peritonitis from Campylobacter fetus] Rodríguez Ramos C, et al. **Rev Esp Enferm Dig** 1997 Jun; 89(6):481–3 (Eng. Abstr.) **(Spa)**

CHEMISTRY

The O-specific polysaccharide chain of Campylobacter fetus serotype A lipopolysaccharide is a partially O-acetylated 1,3-linked alpha-D-mannan. Senchenkova SN, et al. **Eur J Biochem** 1997 May 1;245(3):637–41

Electrophoretic and immunoblot analysis of Campylobacter fetus lipopolysaccharides. Brooks BW, et al. **Vet Microbiol** 1996 Jul;51(1–2):105–14

CLASSIFICATION

DNA fingerprinting of Campylobacter fetus using cloned constructs of ribosomal RNA and surface array protein genes. Denes AS, et al. **Vet Microbiol** 1997 Feb; 54(2):185–93

GENETICS

Cloning and nucleotide sequence of the gyrA gene from Campylobacter fetus subsp. fetus ATCC 27374 and characterization of ciprofloxacin-resistant laboratory and clinical isolates. Taylor DE, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):665–71

A deletion in the sapA homologue cluster is responsible for the loss of the S-layer in Campylobacter fetus strain TK. Fujita M, et al. **Arch Microbiol** 1997 Apr;167(4):196–201

Nested DNA inversion as a paradigm of programmed gene rearrangement. Dworkin J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):985–90

Epidemiologic application of pulsed-field gel electrophoresis to an outbreak of Campylobacter fetus meningitis in a neonatal intensive care unit. Morooka T, et al. **Scand J Infect Dis** 1996;28(3):269–70

DNA fingerprinting of Campylobacter fetus using cloned constructs of ribosomal RNA and surface array protein genes. Denes AS, et al. **Vet Microbiol** 1997 Feb; 54(2):185–93

ISOLATION & PURIFICATION

Campylobacter fetus-associated aneurysms: report of a case involving the popliteal artery and review of the literature. Montero A, et al. **Clin Infect Dis** 1997 May;24(5):1019–21 (9 ref.)

[Bacteremia caused by Campylobacter fetus secondary to rectal biopsy (letter)] Arnal J, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):227–8 **(Spa)**

METABOLISM

Biological characterization of Campylobacter fetus lipopolysaccharides. Moran AP, et al. **FEMS Immunol Med Microbiol** 1996 Aug;15(1):43–50

Characterization of a post-translational modification of Campylobacter flagellin: identification of a sero-specific glycosyl moiety. Doig P, et al. **Mol Microbiol** 1996 Jan; 19(2):379–87

CAMPYLOBACTER INFECTIONS

Campylobacter enteritis among children in north-west Ethiopia: a 1-year prospective study. Gedlu E, et al. **Ann Trop Paediatr** 1996 Sep;16(3):207–12

Infective endocarditis caused by Campylobacter fetus after allogeneic tooth transplantation: a case report. Abe K, et al. **Br J Oral Maxillofac Surg** 1996 Jun;34(3):230–4

Murine intranasal challenge model for the study of Campylobacter pathogenesis and immunity. Baqar S, et al. **Infect Immun** 1996 Dec;64(12):4933–9

First the chicken, then the egg; the heartburn came later. Williams A. **Med Health R I** 1997 May;80(5):163–5

Campylobacter bacteremia in children. Reed RP, et al. **Pediatr Infect Dis J** 1996 Apr;15(4):345–8

[Campylobacter fetus meningitis in adults] Wilhelm JM, et al. **Presse Med** 1996 Oct 5;25(29):1331–2 (Eng. Abstr.) **(Fre)**

[Campylobacter jejuni infections (editorial)] Reina Prieto J. **Rev Clin Esp** 1996 Jan;196(1):1–3 **(Spa)**

CLASSIFICATION

Repetitive and arbitrary primer DNA sequences in PCR–mediated fingerprinting of outbreak and sporadic isolates of Campylobacter jejuni. Iriarte MP, et al. **FEMS Immunol Med Microbiol** 1996 Aug;15(1):17–22

COMPLICATIONS

Prevalence of gastrointestinal symptoms six months after bacterial gastroenteritis and risk factors for development of the irritable bowel syndrome: postal survey of patients [see comments] Neal KR, et al. **BMJ** 1997 Mar 15; 314(7083):779–82. Comment in: BMJ 1997 Jun 28;314(7098):1902; discussion 1903. Comment in: BMJ 1997 Jun 28;314(7098):1902–3. Comment in: BMJ 1997 Jun 28;314(7098):1903.

Stimulation of peripheral blood lymphocytes with Campylobacter jejuni generates a gammadelta T cell response in patients with Guillain–Barrésyndrome. Ben–Smith A, et al. **Clin Exp Immunol** 1997 Jul; 109(1):121–6

An unusual case of refractory Campylobacter jejuni infection in a patient with X–linked agammaglobulinemia: successful combined therapy with maternal plasma and ciprofloxacin. Autenrieth IB, et al. **Clin Infect Dis** 1996 Sep;23(3):526–31

Fatal septic shock with multiple organ failure due to Campylobacter jejuni. Meyrieux V, et al. **Clin Infect Dis** 1996 Jan;22(1):183–4

The immunopathology of Guillain–Barré syndrome. Saida K. **Curr Opin Neurol** 1996 Oct;9(5):329–33 (37 ref.)

Campylobacter jejuni peritonitis in a patient with liver cirrhosis. Vermeij CG, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1219–21 (9 ref.)

Infectious ileocecitis caused by Yersinia, Campylobacter, and Salmonella: clinical, radiological and US findings. Puylaert JB, et al. **Eur Radiol** 1997;7(1):3–9 (42 ref.)

Current concepts in Guillain–Barré syndrome. Franco DA, et al. **Nebr Med J** 1996 Dec;81(12):406–11 (53 ref.)

Hemolytic–uremic syndrome associated with acute Campylobacter upsaliensis gastroenteritis [letter] Carter JE, et al. **Nephron** 1996;74(2):489

Multifocal motor neuropathy with conduction block after Campylobacter jejuni enteritis [letter; comment] Abbruzzese M, et al. **Neurology** 1997 Feb;48(2):544. Comment on: Neurology 1996 Feb;46(2):562–3.

Motor nerve terminal degeneration provides a potential mechanism for rapid recovery in acute motor axonal neuropathy after Campylobacter infection [see comments] Ho TW, et al. **Neurology** 1997 Mar;48(3):717–24. Comment in: Neurology 1997 Mar;48(3):695–700.

Campylobacter sepsis in human immunodeficiency virus–infected children. The Madrid HIV Pediatric Infection Collaborative Study Group. Ruiz–Contreras J, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):251–3

[Hemolytic–uremic syndrome and Campylobacter jejuni enteritis (letter)] Lacaille A, et al. **Presse Med** 1996 Oct 5;25(29):1349 **(Fre)**

[Guillain–Barré syndrome of axonal type, Campylobacter jejuni infection and anti–ganglioside GM1 antibodies] Attarian S, et al. **Rev Neurol (Paris)** 1997 Apr;153(3):205–8 (12 ref.) (Eng. Abstr.) **(Fre)**

[A case of Guillain–Barré syndrome after the travel in southeast Asia––isolation of Campylobacter jejuni PEN 5 serotype] Koide T, et al. **Rinsho Shinkeigaku** 1997 Jan; 37(1):41–3 (Eng. Abstr.) **(Jpn)**

[Guillain–Barré syndrome and infection] Saida T, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1378–9 (10 ref.) **(Jpn)**

[Colonic ulcers caused by Campylobacter jejuni in a patient with HIV infection (letter)] Eres N, et al. **Enferm Infecc Microbiol Clin** 1996 May;14(5):331 **(Spa)**

DIAGNOSIS

Campylobacter fetus–associated aneurysms: report of a case involving the popliteal artery and review of the literature. Montero A, et al. **Clin Infect Dis** 1997 May;24(5):1019–21 (9 ref.)

DNA fingerprinting of Campylobacter fetus using cloned constructs of ribosomal RNA and surface array protein genes. Denes AS, et al. **Vet Microbiol** 1997 Feb; 54(2):185–93

[A study of 30 patients with bacteremia due to Campylobacter spp.] Font C, et al. **Med Clin (Barc)** 1997 Mar 8;108(9):336–40 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Rifabutin prevents campylobacter infection in patients with AIDS [letter; comment] Pulik M, et al. **Clin Infect Dis** 1996 Nov;23(5):1197–8. Comment on: Clin Infect Dis 1996 Apr;22 Suppl 1:S61–6; discussion S66–9.

Quinolone resistance and Campylobacter spp. Piddock LJ. **J Antimicrob Chemother** 1995 Dec;36(6):891–8 (41 ref.)

ECONOMICS

The cost of campylobacteriosis in New Zealand in 1995. Withington SG, et al. **N Z Med J** 1997 Jun 27; 110(1046):222–4

EPIDEMIOLOGY

Prevalence of Campylobacter–associated diarrhea among patients infected with human immunodeficiency virus [see comments] Snijders F, et al. **Clin Infect Dis** 1997 Jun; 24(6):1107–13. Comment in: Clin Infect Dis 1997 Jun;24(6):1114–7.

A prolonged outbreak of Campylobacter infection at a training facility. Kirk M, et al. **Commun Dis Intell** 1997 Mar 6;21(5):57–61

Outbreaks of campylobacter infection: rare events for a common pathogen. Pebody RG, et al. **Commun Dis Rep CDR Rev** 1997 Mar 7;7(3):R33–7 (29 ref.)

Outbreak of campylobacter enteritis in a residential school associated with bird pecked bottle tops. Stuart J, et al. **Commun Dis Rep CDR Rev** 1997 Mar 7;7(3):R38–40

A milk–borne campylobacter outbreak following an educational farm visit. Evans MR, et al. **Epidemiol Infect** 1996 Dec;117(3):457–62

Outbreaks of food poisoning in adults due to Escherichia coli O111 and campylobacter associated with coach trips to northern France. Wight JP, et al. **Epidemiol Infect** 1997 Aug;119(1):9–14

Infection with ciprofloxacin–resistant Campylobacter jejuni in travellers returning from Asia [letter] Slavin MA, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):348–50

Campylobacter jejuni gastroenteritis in Turkish children. Uysal G, et al. **Infection** 1997 May–Jun;25(3):159–62

Assessment of the dose–response relationship of Campylobacter jejuni. Medema GJ, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):101–11

Trends in reported Campylobacter, Salmonella and Shigella infections, Kansas City, Missouri. Hoff GL, et al. **Mo Med** 1996 Jul;93(7):361–6

Zoonosis control. **Wkly Epidemiol Rec** 1996 Nov 8; 71(45):337–9 **(Eng, Fre)**

[Water–borne campylobacter infection––probably caused by pink–footed geese. Two outbreaks in Nord–Trndelag, Stjrtdal in 1994 and Verdal in 1995] Varslot M, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3366–9 (Eng. Abstr.) **(Nor)**

[Current parameters of the epidemiological process in campylobacteriosis] Kirik DL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):29–32 (Eng. Abstr.) **(Rus)**

[Campylobacter jejuni infections in a prison population coinfected with the human immunodeficiency virus] Fernández–Martín JI, et al. **Rev Clin Esp** 1996 Jan; 196(1):16–20 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Diversity of Campylobacter species and its impact on patients infected with human immunodeficiency virus [editorial; comment] Quinn TC. **Clin Infect Dis** 1997 Jun;24(6):1114–7 . Comment on: Clin Infect Dis 1997 Jun;24(6):1107–13.

Epidemiological study on risk factors and risk reducing measures for campylobacter infections in Dutch broiler flocks. van de Giessen AW, et al. **Epidemiol Infect** 1996 Oct;117(2):245–50

A mixed foodborne outbreak with Salmonella heidelberg and Campylobacter jejuni in a nursing home. Layton MC, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):115–21

Fatal Campylobacter jejuni infection in a patient splenectomised for thalassaemia. Jackson N, et al. **J Clin Pathol** 1997 May;50(5):436–7

Pathogenesis of enteric infection by Campylobacter. Ketley JM. **Microbiology** 1997 Jan;143 (Pt 1):5–21 (80 ref.)

An outbreak of Escherichia coli 0157 and campylobacteriosis associated with contamination of a drinking water supply. Jones IG, et al. **Public Health** 1996 Sep;110(5):277–82

[Campylobacter jejuni septicemia with cutaneous sites in a patient with human immunodeficiency virus infection (letter)] Malbec D, et al. **Rev Med Interne** 1997;18(3):257–8 **(Fre)**

[Bacteremia caused by Campylobacter fetus secondary to rectal biopsy (letter)] Arnal J, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):227–8 **(Spa)**

GENETICS

Repetitive and arbitrary primer DNA sequences in PCR–mediated fingerprinting of outbreak and sporadic isolates of Campylobacter jejuni. Iriarte MP, et al. **FEMS Immunol Med Microbiol** 1996 Aug;15(1):17–22

PCR–based restriction fragment length polymorphism (RFLP) analysis and serotyping of Campylobacter jejuni isolates from diarrheic patients in China and Japan. Nishimura M, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):133–8

CheY–mediated modulation of Campylobacter jejuni virulence. Yao R, et al. **Mol Microbiol** 1997 Mar; 23(5):1021–31

IMMUNOLOGY

PCR–based restriction fragment length polymorphism (RFLP) analysis and serotyping of Campylobacter jejuni isolates from diarrheic patients in China and Japan. Nishimura M, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):133–8

IgM anti–GM1 antibodies in the Guillain–Barré syndrome: a serological predictor of the clinical course. Bech E, et al. **J Neuroimmunol** 1997 Jan;72(1):59–66

Antibody to GalNAc–GD1a and GalNAc–GM1b in Guillain–Barré syndrome subsequent to Campylobacter jejuni enteritis. Yuki N, et al. **J Neuroimmunol** 1996 Dec; 71(1–2):155–61

Acute motor axonal neuropathy with high titer IgG and IgA anti–GD1a antibodies following Campylobacter enteritis. Lugaresi A, et al. **J Neurol Sci** 1997 Apr 15;147(2):193–200

MICROBIOLOGY

Campylobacter 0:41 isolation in Guillain–Barré syndrome. Goddard EA, et al. **Arch Dis Child** 1997 Jun;76(6):526–8

Isolation of Campylobacter species from Zambian patients with acute diarrhoea. Luo NP, et al. **East Afr Med J** 1996 Jun;73(6):395–6

The serotype distribution of Campylobacter jejuni and C. coli isolated from patients with diarrhoea and controls at Tikur Anbassa Hospital, Addis Ababa, Ethiopia. Asrat DA, et al. **Epidemiol Infect** 1997 Apr;118(2):91–5

Genotype analysis of human blood isolates of Campylobacter jejuni in England and Wales. Jackson CJ, et al. **Epidemiol Infect** 1997 Apr;118(2):81–9

The application of genotyping techniques to the epidemiological analysis of Campylobacter jejuni. Jackson CJ, et al. **Epidemiol Infect** 1996 Oct;117(2):233–44

Evidence for recombination in the flagellin locus of Campylobacter jejuni: implications for the flagellin gene typing scheme. Harrington CS, et al. **J Clin Microbiol** 1997 Sep;35(9):2386–92

Indwelling device–related bacteremia caused by serum–susceptible Campylobacter coli. Hsueh PR, et al. **J Clin Microbiol** 1997 Aug;35(8):2178–80

CheY–mediated modulation of Campylobacter jejuni virulence. Yao R, et al. **Mol Microbiol** 1997 Mar; 23(5):1021–31

Detection of Campylobacter jejuni/C.coli infection in patients with Guillain–Barré syndrome by serology and culture. Hariharan H, et al. **New Microbiol** 1996 Jul; 19(3):267–71

Incompleteness of statutory notification of bacterial gastro–intestinal infection. Barrett P, et al. **Public Health** 1997 May;111(3):183–5

Campylobacter fetus subsp. fetus cholecystitis in a patient with advanced hepatocellular carcinoma. Takatsu M, et al. **Scand J Infect Dis** 1997;29(2):197–8

Transient Campylobacter bacteremia in a healthy child. Smally AJ, et al. **South Med J** 1996 Nov;89(11):1123–4

Biotyping of Campylobacter strains isolated in Lagos, Nigeria using the modified Preston biotype. Smith SI, et al. **Z Naturforsch [C]** 1997 Mar–Apr;52(3–4):259–63

[Campylobacter infections in pregnancy] Corel LJ, et al. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2517–9 (Eng. Abstr.) **(Dut)**

[Isolation of Campylobacter sputorum biovar sputorum from a bed sore (letter)] Josebe Unzaga M, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):43 **(Spa)**

[Infection of ascitic fluid by campylobacter jejuni in cirrhotic patients (letter)] Pinel Julián LM, et al. **Rev Esp Enferm Dig** 1997 Jun;89(6):489–90 **(Spa)**

[Spontaneous bacterial peritonitis from Campylobacter fetus] Rodríguez Ramos C, et al. **Rev Esp Enferm Dig** 1997 Jun; 89(6):481–3 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Oral administration of antibodies as prophylaxis and therapy in Campylobacter jejuni–infected chickens. Tsubokura K, et al. **Clin Exp Immunol** 1997 Jun;108(3):451–5

Epidemiological study on risk factors and risk reducing measures for campylobacter infections in Dutch broiler flocks. van de Giessen AW, et al. **Epidemiol Infect** 1996 Oct;117(2):245–50

Prevention is best against foodborne illness [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):316

[Campylobacter infection in pregnancy––maternal and perinatal complications] Bar–David J, et al. **Harefuah** 1996 May 1;130(9):609–12 (40 ref.) **(Heb)**

SURGERY

Infected subdural effusion associated with resolving subdural hematoma––case report. Aoki N, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):637–9

TRANSMISSION

Food– and milk–borne zoonotic infections. Humphrey TJ. **J Med Microbiol** 1997 Jan;46(1):11–3, 28–33 (228 ref.)

[The role of the "milk" factor in the transmission of Campylobacter infection] Kirik DL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):30–3 (Eng. Abstr.) **(Rus)**

VETERINARY

Microbial ecology of Campylobacter jejuni in a United Kingdom chicken supply chain: intermittent common source, vertical transmission, and amplification by flock propagation. Pearson AD, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4614–20

Immunisation of chickens to reduce intestinal colonisation with Campylobacter jejuni. Widders PR, et al. **Br Poult Sci** 1996 Sep;37(4):765–78

Campylobacter incidence on a chicken farm and the spread

CAMPYLOBACTER INFECTIONS

of Campylobacter during the slaughter process. Berndtson E, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):35–47

Phenotypic and ribosomal RNA characterization of Arcobacter species isolated from porcine aborted fetuses. Schroeder–Tucker L, et al. **J Vet Diagn Invest** 1996 Apr; 8(2):186–95

Proliferative enteropathy of rabbits: the intracellular Campylobacter–like organism is closely related to Lawsonia intracellularis. Hotchkiss CE, et al. **Lab Anim Sci** 1996 Dec;46(6):623–7

Campylobacter jejuni seasonal recovery observations of retail market broilers. Willis WL, et al. **Poult Sci** 1997 Feb; 76(2):314–7

Diagnosing emerging bacterial infections: salmonellosis, campylobacteriosis, clostridial toxicosis, and helicobacteriosis. McDonough PL, et al. **Semin Vet Med Surg (Small Anim)** 1996 Aug;11(3):187–97 (32 ref.)

Electrophoretic and immunoblot analysis of Campylobacter fetus lipopolysaccharides. Brooks BW, et al. **Vet Microbiol** 1996 Jul;51(1–2):105–14

DNA fingerprinting of Campylobacter fetus using cloned constructs of ribosomal RNA and surface array protein genes. Denes AS, et al. **Vet Microbiol** 1997 Feb; 54(2):185–93

Intracellular Campylobacter–like organisms associated with rectal prolapse and proliferative enteroproctitis in emus (Dromaius novaehollandiae). Lemarchand TX, et al. **Vet Pathol** 1997 Mar;34(2):152–6

Erythromycin resistance of Campylobacter isolates from pigs [letter; comment] Davies P, et al. **Vet Rec** 1996 Sep 7; 139(10):244. Comment on: Vet Rec 1996 Mar 30;138(13):306–7.

Histological and bacteriological evaluation of digital dermatitis in cattle, with special reference to spirochaetes and Campylobacter faecalis. Döpfer D, et al. **Vet Rec** 1997 Jun 14;140(24):620–3

Prevalence of bacterial enteropathogens in pet dogs in Trinidad. Adesiyun AA, et al. **Zentralbl Veterinarmed [B]** 1997 Mar;44(1):19–27

Occurrence of thermotolerant Campylobacter species in domestic and wild monkeys from Peru. Tresierra–Ayala A, et al. **Zentralbl Veterinarmed [B]** 1997 Mar;44(1):61–4

CAMPYLOBACTER JEJUNI

An unusual case of refractory Campylobacter jejuni infection in a patient with X–linked agammaglobulinemia: successful combined therapy with maternal plasma and ciprofloxacin. Autenrieth IB, et al. **Clin Infect Dis** 1996 Sep;23(3):526–31

Fatal septic shock with multiple organ failure due to Campylobacter jejuni. Meyrieux V, et al. **Clin Infect Dis** 1996 Jan;22(1):183–4

Campylobacter jejuni peritonitis in a patient with liver cirrhosis. Vermeij CG, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1219–21 (9 ref.)

A mixed foodborne outbreak with Salmonella heidelberg and Campylobacter jejuni in a nursing home. Layton MC, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):115–21

Murine intranasal challenge model for the study of Campylobacter pathogenesis and immunity. Baqar S, et al. **Infect Immun** 1996 Dec;64(12):4933–9

Campylobacter jejuni gastroenteritis in Turkish children. Uysal G, et al. **Infection** 1997 May–Jun;25(3):159–62

Assessment of the dose–response relationship of Campylobacter jejuni. Medema GJ, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):101–11

Fatal Campylobacter jejuni infection in a patient splenectomised for thalassaemia. Jackson N, et al. **J Clin Pathol** 1997 May;50(5):436–7

First the chicken, then the egg; the heartburn came later. Williams A. **Med Health R I** 1997 May;80(5):163–5

Campylobacter bacteremia in children. Reed RP, et al. **Pediatr Infect Dis J** 1996 Apr;15(4):345–8

Campylobacter sepsis in human immunodeficiency virus–infected children. The Madrid HIV Pediatric Infection Collaborative Study Group. Ruiz–Contreras J, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):251–3

Campylobacter jejuni seasonal recovery observations of retail market broilers. Willis WL, et al. **Poult Sci** 1997 Feb; 76(2):314–7

An outbreak of Escherichia coli 0157 and campylobacteriosis associated with contamination of a drinking water supply. Jones IG, et al. **Public Health** 1996 Sep;110(5):277–82

[Hemolytic–uremic syndrome and Campylobacter jejuni enteritis (letter)] Lacaille A, et al. **Presse Med** 1996 Oct 5;25(29):1349 **(Fre)**

[Campylobacter jejuni septicemia with cutaneous sites in a patient with human immunodeficiency virus infection (letter)] Malbec D, et al. **Rev Med Interne** 1997;18(3):257–8 **(Fre)**

[Guillain–Barré syndrome of axonal type, Campylobacter jejuni infection and anti–ganglioside GM1 antibodies] Attarian S, et al. **Rev Neurol (Paris)** 1997 Apr;153(3):205–8 (12 ref.) (Eng. Abstr.) **(Fre)**

[Guillain–Barré syndrome and infection] Saida T, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1378–9 (10 ref.) **(Jpn)**

[Pathogenesis of Guillain–Barré syndrome and Fisher's syndrome: molecular mimicry between antecedent infectious agents and components of nerve tissues] Yuki N. **Rinsho Shinkeigaku** 1995 Dec;35(12):1373–5 (10 ref.) (Eng. Abstr.) **(Jpn)**

[The role of the "milk" factor in the transmission of Campylobacter infection] Kirik DL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):30–3 (Eng. Abstr.) **(Rus)**

[Colonic ulcers caused by Campylobacter jejuni in a patient with HIV infection (letter)] Eres N, et al. **Enferm Infecc Microbiol Clin** 1996 May;14(5):331 **(Spa)**

[A study of 30 patients with bacteremia due to Campylobacter spp.] Font C, et al. **Med Clin (Barc)** 1997 Mar 8;108(9):336–40 (Eng. Abstr.) **(Spa)**

[Campylobacter jejuni infections in a prison population coinfected with the human immunodeficiency virus] Fernández–Martín JI, et al. **Rev Clin Esp** 1996 Jan; 196(1):16–20 (Eng. Abstr.) **(Spa)**

[Campylobacter jejuni infections (editorial)] Reina Prieto J. **Rev Clin Esp** 1996 Jan;196(1):1–3 **(Spa)**

[Infection of ascitic fluid by campylobacter jejuni in cirrhotic patients (letter)] Pinel Julián LM, et al. **Rev Esp Enferm Dig** 1997 Jun;89(6):489–90 **(Spa)**

CHEMISTRY

The Campylobacter jejuni porin trimers pack into different lattice types when reconstituted in the presence of lipid. Zhuang J, et al. **Eur J Biochem** 1997 Mar 1;244(2):575–9

A rapid, colourimetric assay for cytotoxin activity in Campylobacter jejuni. Coote JG, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):65–70

Outer membrane characteristics of Campylobacter jejuni grown in chickens. Chart H, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):469–72

Primary structure analysis and adhesion studies on the major outer membrane protein of Campylobacter jejuni. Schröder W, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):141–7

Heat–stable serotyping antigens expressed by strains of Campylobacter jejuni are probably capsular and not long–chain lipopolysaccharide. Chart H, et al. **J Appl Bacteriol** 1996 Dec;81(6):635–40

CLASSIFICATION

Association of Campylobacter jejuni serotype with antiganglioside antibody in Guillain–Barré syndrome and Fisher's syndrome. Yuki N, et al. **Ann Neurol** 1997 Jul; 42(1):28–33

Comparison of polymerase chain reaction and pulsed–field gel electrophoresis for the epidemiological typing of Campylobacter jejuni. Shi ZY, et al. **Diagn Microbiol Infect Dis** 1996 Nov–Dec;26(3–4):103–8

The serotype distribution of Campylobacter jejuni and C. coli isolated from patients with diarrhoea and controls at Tikur Anbassa Hospital, Addis Ababa, Ethiopia. Asrat DA, et al. **Epidemiol Infect** 1997 Apr;118(2):91–5

The application of genotyping techniques to the epidemiological analysis of Campylobacter jejuni. Jackson CJ, et al. **Epidemiol Infect** 1996 Oct;117(2):233–44

Experimental studies on the infectivity of non–culturable forms of Campylobacter spp. in chicks and mice. van de Giessen AW, et al. **Epidemiol Infect** 1996 Dec; 117(3):463–70

Heat–stable serotyping antigens expressed by strains of Campylobacter jejuni are probably capsular and not long–chain lipopolysaccharide. Chart H, et al. **J Appl Bacteriol** 1996 Dec;81(6):635–40

Evidence for recombination in the flagellin locus of Campylobacter jejuni: implications for the flagellin gene typing scheme. Harrington CS, et al. **J Clin Microbiol** 1997 Sep;35(9):2386–92

Lineages within Campylobacter jejuni defined by numerical analysis of pulsed–field gel electrophoretic DNA profiles. Gibson J, et al. **J Med Microbiol** 1997 Feb;46(2):157–63

Application of the Mast resistotyping scheme to Campylobacter jejuni and C. coli. Owen RJ, et al. **J Med Microbiol** 1997 Jan;46(1):34–8

DRUG EFFECTS

Antibiotic resistance of Campylobacter jejuni with reference to plasmid profiles of clinical and chicken isolates. Lękowska–Kochaniak A, et al. **Acta Microbiol Pol** 1996; 45(3–4):249–59

Antimicrobial susceptibilities of Campylobacter jejuni and Campylobacter coli to 12 beta–lactam agents and combinations with beta–lactamase inhibitors. Tajada P, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1924–5

Infection with ciprofloxacin–resistant Campylobacter jejuni in travellers returning from Asia [letter] Slavin MA, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):348–50

Comparison of disc diffusion and agar dilution methods for antibiotic susceptibility testing of Campylobacter jejuni subsp. jejuni and Campylobacter coli. Gaudreau C, et al. **J Antimicrob Chemother** 1997 Jun;39(6):707–12

Sequential development of resistance to fluoroquinolones and erythromycin in an isolate of Campylobacter jejuni. Burnens AP, et al. **Zentralbl Bakteriol** 1996 Mar; 283(3):314–21

[Evolution of susceptibilities of Campylobacter jejuni isolated from diarrhoeal cases to fluoroquinolones in Tokyo] Tadano K, et al. **Kansenshogaku Zasshi** 1996 Dec; 70(12):1227–33 (Eng. Abstr.) **(Jpn)**

[The E test and quinolone–resistant Campylobacter jejuni] Cogollos R, et al. **Enferm Infecc Microbiol Clin** 1995 Dec; 13(10):587–91 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Identification of a functional homolog of the Escherichia coli and Salmonella typhimurium cysM gene encoding O–acetylserine sulfhydrylase B in Campylobacter jejuni. Garvis SG, et al. **Gene** 1997 Jan 31;185(1):63–7

The aroA gene of Campylobacter jejuni. Wösten MM, et al. **Gene** 1996 Nov 28;181(1–2):109–12

GENETICS

Complete nucleotide sequence of the Campylobacter jejuni 72Dz asd gene. Pawelec D, et al. **Acta Microbiol Pol** 1996; 45(3–4):299–304

Characterization of Campylobacter jejuni asd gene cloned in Escherichia coli. Raczyńska–Pawelec A, et al. **Acta Microbiol Pol** 1995;44(3–4):227–41

Cloning, sequencing, and expression of a Campylobacter jejuni periplasmic binding protein (P29) involved in histidine transport. Garvis SG, et al. **Adv Exp Med Biol** 1997;412:263–4

Genotype analysis of human blood isolates of Campylobacter jejuni in England and Wales. Jackson CJ, et al. **Epidemiol Infect** 1997 Apr;118(2):81–9

A combined polymerase chain reaction and restriction endonuclease enzyme assay for discriminating between Campylobacter coli and Campylobacter jejuni. Comi G, et al. **FEMS Immunol Med Microbiol** 1996 Nov;16(1):45–9

Repetitive and arbitrary primer DNA sequences in PCR–mediated fingerprinting of outbreak and sporadic isolates of Campylobacter jejuni. Iriarte MP, et al. **FEMS Immunol Med Microbiol** 1996 Aug;15(1):17–22

Transcription of the Campylobacter jejuni cell division gene ftsA. Griffiths PL, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):83–7

Expanded genomic map of Campylobacter jejuni UA580 and localization of 23S ribosomal rRNA genes by I–CeuI restriction endonuclease digestion. Newnham E, et al. **FEMS Microbiol Lett** 1996 Sep 1;142(2–3):223–9

PCR–based restriction fragment length polymorphism (RFLP) analysis and serotyping of Campylobacter jejuni isolates from diarrheic patients in China and Japan. Nishimura M, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):133–8

Identification of a functional homolog of the Escherichia coli and Salmonella typhimurium cysM gene encoding O–acetylserine sulfhydrylase B in Campylobacter jejuni. Garvis SG, et al. **Gene** 1997 Jan 31;185(1):63–7

Specific identification of the enteropathogens Campylobacter jejuni and Campylobacter coli by using a PCR test based on the ceuE gene encoding a putative virulence determinant. Gonzalez I, et al. **J Clin Microbiol** 1997 Mar; 35(3):759–63

Evidence for recombination in the flagellin locus of Campylobacter jejuni: implications for the flagellin gene typing scheme. Harrington CS, et al. **J Clin Microbiol** 1997 Sep;35(9):2386–92

Overproduction of Campylobacter ferritin in Escherichia coli and induction of paracrystalline inclusion by ferrous compound. Wai SN, et al. **Microbiol Immunol** 1997; 41(6):461–7

Differentiation of Campylobacter jejuni and Campylobacter coli by polymerase chain reaction. Harmon KM, et al. **Mol Cell Probes** 1997 Jun;11(3):195–200

Identification and molecular cloning of a gene encoding a fibronectin–binding protein (CadF) from Campylobacter jejuni. Konkel ME, et al. **Mol Microbiol** 1997 Jun; 24(5):953–63

CheY–mediated modulation of Campylobacter jejuni virulence. Yao R, et al. **Mol Microbiol** 1997 Mar; 23(5):1021–31

Flagellin gene profiling of Campylobacter jejuni heat–stable serotype 1 and 4 complex. Santesteban E, et al. **Res Microbiol** 1996 Oct;147(8):641–9

PCR–mediated DNA fingerprinting of atypical campylobacter strains isolated from surface and drinking water. Jacob J, et al. **Zentralbl Bakteriol** 1996 Sep; 285(1):106–12

GROWTH & DEVELOPMENT

Detection of the coccoid form of Campylobacter jejuni with the use of polymerase chain reaction. Korsak D, et al. **Acta Microbiol Pol** 1996;45(3–4):305–8

Outer membrane characteristics of Campylobacter jejuni grown in chickens. Chart H, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):469–72

Changes with growth rate in the membrane lipid composition of and amino acid utilization by continuous cultures of Campylobacter jejuni. Leach S, et al. **J Appl Microbiol** 1997 May;82(5):631–40

Resuscitation of 'non–culturable' cells from aged cultures of Campylobacter jejuni. Bovill RA, et al. **Microbiology** 1997 May;143 (Pt 5):1575–81

IMMUNOLOGY

Stimulation of peripheral blood lymphocytes with Campylobacter jejuni generates a gammadelta T cell response in patients with Guillain–Barrésyndrome. Ben–Smith A, et al. **Clin Exp Immunol** 1997 Jul; 109(1):121–6

Oral administration of antibodies as prophylaxis and therapy in Campylobacter jejuni–infected chickens. Tsubokura K,

et al. **Clin Exp Immunol** 1997 Jun;108(3):451–5
PCR-based restriction fragment length polymorphism (RFLP) analysis and serotyping of Campylobacter jejuni isolates from diarrheic patients in China and Japan. Nishimura M, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):133–8
Cross-reactive antibodies against gangliosides and Campylobacter jejuni lipopolysaccharides in patients with Guillain–Barré or Miller Fisher syndrome. Jacobs BC, et al. **J Infect Dis** 1997 Mar;175(3):729–33
IgM anti-GM1 antibodies in the Guillain–Barré syndrome: a serological predictor of the clinical course. Bech E, et al. **J Neuroimmunol** 1997 Jan;72(1):59–66
Reactivity of serum IgG anti-GM1 ganglioside antibodies with the lipopolysaccharide fractions of Campylobacter jejuni isolates from patients with Guillain–Barre syndrome (GBS). Gregson NA, et al. **J Neuroimmunol** 1997 Mar; 73(1–2):28–36
Acute motor axonal neuropathy with high titer IgG and IgA anti-GD1a antibodies following Campylobacter enteritis. Lugaresi A, et al. **J Neurol Sci** 1997 Apr 15;147(2):193–200
Campylobacter-host cell interactions. Wooldridge KG, et al. **Trends Microbiol** 1997 Mar;5(3):96–102 (46 ref.)

ISOLATION & PURIFICATION

Use of an arbitrarily primed PCR product in the development of a Campylobacter jejuni-specific PCR. Day WA Jr, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1019–23
Microbial ecology of Campylobacter jejuni in a United Kingdom chicken supply chain: intermittent common source, vertical transmission, and amplification by flock propagation. Pearson AD, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4614–20
Campylobacter 0:41 isolation in Guillain–Barré syndrome. Goddard EA, et al. **Arch Dis Child** 1997 Jun;76(6):526–8
Immunisation of chickens to reduce intestinal colonisation with Campylobacter jejuni. Widders PR, et al. **Br Poult Sci** 1996 Sep;37(4):765–78
Development of a rapid and specific colony-lift immunoassay for detection and enumeration of Campylobacter jejuni, C. coli, and C. lari. Rice BE, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):669–77
Serendipitous detection of persistent Campylobacter jejuni subspecies jejuni bacteremia in a patient undergoing bone marrow transplantation. Schuster M, et al. **Clin Infect Dis** 1997 Jun;24(6):1270
A prolonged outbreak of Campylobacter infection at a training facility. Kirk M, et al. **Commun Dis Intell** 1997 Mar 6;21(5):57–61
Outbreak of campylobacter enteritis in a residential school associated with bird pecked bottle tops. Stuart J, et al. **Commun Dis Rep CDR Rev** 1997 Mar 7;7(3):R38–40
A milk-borne campylobacter outbreak following an educational farm visit. Evans MR, et al. **Epidemiol Infect** 1996 Dec;117(3):457–62
A combined polymerase chain reaction and restriction endonuclease enzyme assay for discriminating between Campylobacter coli and Campylobacter jejuni. Comi G, et al. **FEMS Immunol Med Microbiol** 1996 Nov;16(1):45–9
Rapid identification of Campylobacter jejuni strains by polymerase chain reaction & their restriction fragment length polymorphism analysis. Mahendru M, et al. **Indian J Med Res** 1997 Jan;105:9–14
Evaluation of the NASBA nucleic acid amplification system for assessment of the viability of Campylobacter jejuni. Uyttendaele M, et al. **Int J Food Microbiol** 1997 Jun 17; 37(1):13–20
A novel polymerase chain reaction assay for the detection and speciation of thermophilic Campylobacter spp. Jackson CJ, et al. **J Appl Bacteriol** 1996 Nov;81(5):467–73
Microtitre plate riboprobe system for detection of ultrasonicated Campylobacter jejuni genomic DNA. Lamoureux M, et al. **J Appl Bacteriol** 1996 Dec; 81(6):626–34
Restriction endonuclease analysis, DNA relatedness and phenotypic characterization of Campylobacter jejuni and Camp. coli isolates involved in food-borne disease. Jiménez A, et al. **J Appl Microbiol** 1997 Jun;82(6):713–21
Reactivity of serum IgG anti-GM1 ganglioside antibodies with the lipopolysaccharide fractions of Campylobacter jejuni isolates from patients with Guillain–Barre syndrome (GBS). Gregson NA, et al. **J Neuroimmunol** 1997 Mar; 73(1–2):28–36
Direct detection of Campylobacter jejuni in chicken cecal contents by PCR. Chuma T, et al. **J Vet Med Sci** 1997 Jan;59(1):85–7
Current concepts in Guillain–Barré syndrome. Franco DA, et al. **Nebr Med J** 1996 Dec;81(12):406–11 (53 ref.)
Detection of Campylobacter jejuni/C.coli infection in patients with Guillain–Barré syndrome by serology and culture. Hariharan H, et al. **New Microbiol** 1996 Jul; 19(3):267–71
[A case of Guillain–Barré syndrome after the travel in southeast Asia—isolation of Campylobacter jejuni PEN 5 serotype] Koide T, et al. **Rinsho Shinkeigaku** 1997 Jan; 37(1):41–3 (Eng. Abstr.) **(Jpn)**

METABOLISM

Induction of anti-GM1 ganglioside antibodies by Campylobacter jejuni lipopolysaccharides. Wirguin I, et al. **J Neuroimmunol** 1997 Sep;78(1–2):138–42
Characterization of a post-translational modification of Campylobacter flagellin: identification of a sero-specific glycosyl moiety. Doig P, et al. **Mol Microbiol** 1996 Jan; 19(2):379–87
Construction of a ferritin-deficient mutant of Campylobacter jejuni: contribution of ferritin to iron storage and protection against oxidative stress. Wai SN, et al. **Mol Microbiol** 1996 Jun;20(6):1127–34

PATHOGENICITY

Experimental studies on the infectivity of non-culturable forms of Campylobacter spp. in chicks and mice. van de Giessen AW, et al. **Epidemiol Infect** 1996 Dec; 117(3):463–70
Adherence, invasion and cytotoxin assay of Campylobacter jejuni in HeLa and HEp-2 cells. Prasad KN, et al. **J Diarrhoeal Dis Res** 1996 Dec;14(4):255–9
Host signal transduction and endocytosis of Campylobacter jejuni. Wooldridge KG, et al. **Microb Pathog** 1996 Oct; 21(4):299–305
Pathogenesis of enteric infection by Campylobacter. Ketley JM. **Microbiology** 1997 Jan;143 (Pt 1):5–21 (80 ref.)
CheY-mediated modulation of Campylobacter jejuni virulence. Yao R, et al. **Mol Microbiol** 1997 Mar; 23(5):1021–31
In vitro permeation of human chorioamniotic membranes by Campylobacter jejuni. Diker KS, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):518–24

PHYSIOLOGY

[Intervention of Campylobacter jejuni subsp. jejuni flagella in the adhesion to cellular cultures: bacteriological and immunological evidence] Fernández H, et al. **Rev Med Chil** 1996 Sep;124(9):1029–35 (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Electron microscopy of the major outer membrane protein of Campylobacter jejuni. Amako K, et al. **Microbiol Immunol** 1996;40(10):749–54

CAMPYLOBACTER PYLORI see **HELICOBACTER PYLORI**

CAMURATI-ENGELMANN SYNDROME see **DIAPHYSEAL DYSPLASIA, PROGRESSIVE**

CANARIES

Canary finches (Serinus canaria) as an avian infection model for Lyme borreliosis. Olsen B, et al. **Microb Pathog** 1996 Jun;20(6):319–24
Left syringeal dominance in testosterone-treated female canaries. Hartley RS, et al. **Neurobiol Learn Mem** 1997 May;67(3):248–53

GENETICS

[Continuous proliferation of supporting cells and indications for hair cell differentiation in the inner ear of adult song birds with genetic cochlear hearing loss] Gleich O, et al. **HNO** 1996 Jun;44(6):307–12 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Cross-protection test of an avian poxvirus isolated from houbara bustards. Ostrowski S, et al. **Avian Dis** 1996 Oct-Dec;40(4):762–9

MICROBIOLOGY

Toxoplasmosis in canaries in Great Britain. Gibbens JC, et al. **Vet Rec** 1997 Apr 5;140(14):370–1

PARASITOLOGY

Skeletal muscle ultrastructural pathology in Serinus canarius infected with Plasmodium cathemerium. Carmona M, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):87–91

PHYSIOLOGY

Ependymal/subependymal zone cells of postnatal and adult songbird brain generate both neurons and nonneuronal siblings in vitro and in vivo. Goldman SA, et al. **J Neurobiol** 1996 Aug;30(4):505–20
Photoperiod regulation of neuron death in the adult canary. Kirn JR, et al. **J Neurobiol** 1997 Sep;33(3):223–31

CANARYPOX VIRUS see **AVIPOXVIRUS**

CANAVAN DISEASE

DIAGNOSIS

Histopathology of an infantile-onset spongiform leukoencephalopathy with a discrepantly mild clinical course. van der Knaap MS, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):206–12
Cystic leukoencephalopathy in a megalencephalic child: clinical and magnetic resonance imaging/magnetic resonance spectroscopy findings. Mejaski-Bosnjak V, et al. **Pediatr Neurol** 1997 May;16(4):347–50

GENETICS

Leukoencephalopathy, megalencephaly, and mild clinical course. A recently individualized familial leukodystrophy. Report on five new cases. Goutières F, et al. **J Child Neurol** 1996 Nov;11(6):439–44

METABOLISM

Quantitative measurements with localized 1H MR spectroscopy in children with Canavan's disease. Wittsack HJ, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):889–93

PATHOLOGY

Histopathology of an infantile-onset spongiform leukoencephalopathy with a discrepantly mild clinical course. van der Knaap MS, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):206–12
Clinical and magnetic resonance imaging features of L-2-hydroxyglutaric acidemia: report of three cases in comparison with Canavan disease. Topçu M, et al. **J Child Neurol** 1996 Sep;11(5):373–7

CANAVAN-VAN BOGAERT-BERTRAND DISEASE see **CANAVAN DISEASE**

CANAVANINE

METABOLISM

The biochemical basis for L-canavanine tolerance by the tobacco budworm Heliothis virescens (Noctuidae). Melangeli C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2255–60

PHARMACOLOGY

L-canavanine improves organ function and tissue adenosine triphosphate levels in rodent endotoxemia. Liaudet L, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1643–8
L-canavanine and dexamethasone attenuate endotoxin-induced suppression of ischaemia-reperfusion arrhythmias. Iskit AB, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):183–90
Effects of L-canavanine, an inhibitor of inducible nitric oxide synthase, on endotoxin mediated shock in rats. Fatehi-Hassanabad Z, et al. **Shock** 1996 Sep;6(3):194–200

THERAPEUTIC USE

L-canavanine, an inhibitor of inducible nitric oxide synthase, improves venous return in endotoxemic rats. Fishman D, et al. **Crit Care Med** 1997 Mar;25(3):469–75

TOXICITY

Effects of the naturally occurring arginine analogues indospicine and canavanine on nitric oxide mediated functions in aortic endothelium and peritoneal macrophages. Pass MA, et al. **Nat Toxins** 1996;4(3):135–40
The biochemical basis for L-canavanine tolerance by the tobacco budworm Heliothis virescens (Noctuidae). Melangeli C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2255–60

CANCER see **NEOPLASMS**

CANCER-ASSOCIATED CARBOHYDRATE ANTIGENS see **ANTIGENS, TUMOR-ASSOCIATED, CARBOHYDRATE**

CANCER CARE FACILITIES

see related
ONCOLOGY SERVICE, HOSPITAL

Cancer units are implementing changes from generic to specialist practice [letter] Haward RA, et al. **BMJ** 1997 Mar 1;314(7081):677
Tertiary cancer services. Psychiatric and psychological liaison should be included [letter; comment] Paul M. **BMJ** 1996 Nov 23;313(7068):1329; discussion 1329–30. Comment on: BMJ 1996 Aug 10;313(7053):347–9.
Tertiary cancer services. Use of "population served" distorted findings [letter; comment] Tennison B, et al. **BMJ** 1996 Nov 23;313(7068):1329; discussion 1329–30. Comment on: BMJ 1996 Aug 10;313(7053):347–9.
Hospital-related differences in breast cancer management. Analysis of an unselected population-based series of 1353 radically operated patients. Raabe NK, et al. **Breast Cancer Res Treat** 1997 May;43(3):225–35
The National Cancer Data Base report on completeness of American Joint Committee on Cancer staging in United States cancer facilities. The American College of Surgeons Commission on Cancer and the American Cancer Society. Fleming ID, et al. **Cancer** 1996 Oct 1;78(7):1498–504 (10 ref.)
A home page on the Internet for the Vancouver Island Cancer Centre, British Columbia Cancer Agency. Barnett JB, et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):390–2
Colorectal cancer at the National Cancer Center Hospital: a prospective from the UK [letter] Thomas MG. **Jpn J Clin Oncol** 1996 Dec;26(6):488–9
Pediatric hematology/oncology in Russia. Durnov L, et al. **Pediatr Hematol Oncol** 1997 Mar-Apr;14(2):103–7 (8 ref.)

CANCER CARE FACILITIES

Center for Paediatric Haematology and Oncology, University of Trondheim, Trondheim, Norway. Moe PJ. **Pediatr Hematol Oncol** 1997 Mar-Apr;14(2):101-2

Epidemiology of infections in the adult medical intensive care unit of a cancer hospital. Berghmans T, et al. **Support Care Cancer** 1997 May;5(3):234-40

[A visit to the St. Christopher Hospice in London and the Marie Curie Center in Liverpool (letter)] Jurjec S, et al. **Lijec Vjesn** 1996 Sep;118(9):210-2 **(Scr)**

ECONOMICS

Economic analysis of a randomized clinical trial to compare filgrastim-mobilized peripheral-blood progenitor-cell transplantation and autologous bone marrow transplantation in patients with Hodgkin's and non-Hodgkin's lymphoma. Smith TJ, et al. **J Clin Oncol** 1997 Jan;15(1):5-10

HISTORY

The Howard University Cancer Center: a quarter century of excellence in cancer care and research (1972 to 1997). Williams R, et al. **J Natl Med Assoc** 1997 Jun;89(6):421-3

The Centre Léon Bérard Cancer Center. Philip T. **Pediatr Hematol Oncol** 1996 Nov-Dec;13(6):477-86

ORGANIZATION & ADMINISTRATION

Organization of radiotherapy and cancer care in Sweden. **Acta Oncol** 1996;35 Suppl 6:34-6

Continued inadequacies in data sources for the evaluation of cancer services. Smith SJ, et al. **Br J Cancer** 1997; 75(1):131-3

Changing patterns in cancer service provision [letter; comment] Edwards S. **Br J Hosp Med** 1997 Feb 5-18; 57(3):111. Comment on: Br J Hosp Med 1997 Feb 5-18;57(3):67-8.

Gynaecological cancer services: time for change [letter; comment] Cullimore J. **Br J Obstet Gynaecol** 1997 Aug; 104(8):974. Comment on: Br J Obstet Gynaecol 1997 Feb;104(2):123-6.

Gynaecological cancer services: time for change [comment] [see comments] Kitchener HC. **Br J Obstet Gynaecol** 1997 Feb;104(2):123-6. Comment on: Br J Obstet Gynaecol 1997 Feb;104(2):140-4. Comment in: Br J Obstet Gynaecol 1997 Jul;104(7):869. Comment in: Br J Obstet Gynaecol 1997 Aug;104(8):974.

Employers ... General Motors [news] **Hosp Health Netw** 1997 Jan 20;71(2):13

Organized chaos. Appleby C. **Hosp Health Netw** 1997 Jul 20;71(14):50-2

The king of cancer. Rice TT. **Hosp Health Netw** 1997 Mar 5;71(5):34, 36, 38

Infrastructure for radiotherapy in The Netherlands: development from 1970 to 2010. van Daal WA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):411-5

Does a centralized radiotherapy system provide adequate access to care? Mackillop WJ, et al. **J Clin Oncol** 1997 Mar;15(3):1261-71

Administrative and technical support of ambulatory infusional cancer chemotherapy (ICC). Moore C, et al. **J Infus Chemother** 1996 Fall;6(4):161-3 (6 ref.)

Pediatric Oncology Center of the Catholic University of Rome, Italy. Mastrangelo R. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):5-9

The multidisciplinary melanoma center. Sagebiel RW. **Surg Clin North Am** 1996 Dec;76(6):1433-9 (6 ref.)

STANDARDS

Multidisciplinary breast cancer clinics. Do they work? Gabel M, et al. **Cancer** 1997 Jun 15;79(12):2380-4

An outcomes management program in gynecologic oncology. Morris M, et al. **Obstet Gynecol** 1997 Apr;89(4):485-92

[Management control and operative outcome of the Radio Institute "O. Alberti." Management of oncologic follow-up] Micheletti E, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):267-72 (Eng. Abstr.) **(Ita)**

TRENDS

The effects of changing patterns in service provision on the management of cancer [editorial] [see comments] Nettel JP. **Br J Hosp Med** 1997 Feb 5-18;57(3):67-8. Comment in: Br J Hosp Med 1997 Feb 5-18;57(3):111.

CANCER CARE UNITS see **ONCOLOGY SERVICE, HOSPITAL**

CANCER GENES see **ONCOGENES**

CANCER STAGING see **NEOPLASM STAGING**

CANCER SYNDROMES, HEREDITARY see **NEOPLASTIC SYNDROMES, HEREDITARY**

CANCER VACCINES

Immune monitoring of cancer vaccines. Report on a workshop held at the 9th NCI-EORTC Symposium on New Drugs in Cancer Therapy. Sznol M, et al. **Ann Oncol** 1996 Sep;7(7):667-70

Sensitizing T-lymphocytes for adoptive immunotherapy by vaccination with wild-type or cytokine gene-transduced melanoma. Lipshy KA, et al. **Ann Surg Oncol** 1997 Jun; 4(4):334-41

Vaccine strategies in non-Hodgkin's lymphomas. Brissinck J, et al. **Baillieres Clin Haematol** 1996 Dec;9(4):799-817 (89 ref.)

DNA vaccination as cancer immunotherapy. Zhu D, et al. **Biochem Soc Trans** 1997 May;25(2):743-7

Maturation of cancer vaccines. A meeting report on 'Cancer Vaccines 1996,' sponsored by the Cancer Research Institute, held October 7-9, 1996. Pardoll D. **Biochim Biophys Acta** 1997 Apr 18;1332(2):R33-6

A Phase I clinical trial of immunotherapy with interferon-gamma gene-modified autologous melanoma cells: monitoring the humoral immune response. Abdel-Wahab Z, et al. **Cancer** 1997 Aug 1;80(3):401-12

Genetically modified tumour vaccines carrying inserted genes for immunoregulatory molecules. Bubeník J. **Folia Biol (Praha)** 1996;42(6):295-304 (114 ref.)

Cytokine-based gene therapy of human tumors. An overview. Parmiani G, et al. **Folia Biol (Praha)** 1996; 42(6):305-9 (21 ref.)

Recombinant interleukin-2 acts as an adjuvant and helps to increase the efficacy of tumour vaccines. Vondrys P, et al. **Folia Biol (Praha)** 1997;43(1):39-40

Gene therapy for prostate cancer. Hrouda D, et al. **Gene Ther** 1996 Oct;3(10):845-52 (87 ref.)

Regression of tumors in mice vaccinated with professional antigen-presenting cells pulsed with tumor extracts. Nair SK, et al. **Int J Cancer** 1997 Mar 17;70(6):706-15

Immunization with a mouse mammary tumour virus envelope protein epitope protects against tumour formation without inhibition of the virus infection. Astori M, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1935-9

Efficient retrovirus-mediated cytokine-gene transduction of primary-cultured human glioma cells for tumor vaccination therapy. Wakimoto H, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):296-305

Augmentation with serum thymic factor of suppressive effects on retroviral tumor development in hosts immune to v-onc product. Miyauchi M, et al. **Leukemia** 1997 Apr; 11 Suppl 3:213-5

Peptide-based bovine leukemia virus (BLV) vaccine that induces BLV-Env specific Th-1 type immunity. Ohishi K, et al. **Leukemia** 1997 Apr;11 Suppl 3:223-6

Considerations for the clinical development of cytokine gene-transduced tumor cell vaccines. Jaffee EM, et al. **Methods** 1997 Jun;12(2):143-53 (50 ref.)

Purification of heat shock protein-peptide complexes for use in vaccination against cancers and intracellular pathogens. Srivastava PK. **Methods** 1997 Jun;12(2):165-71 (24 ref.)

Human tumour antigens recognized by T cells: new perspectives for anti-cancer vaccines? Coulie PG. **Mol Med Today** 1997 Jun;3(6):261-8 (39 ref.)

Cancer vaccines: challenges and potential solutions. Hellström KE, et al. **Mol Med Today** 1997 Jul;3(7):286-90

Cancer vaccines. Hickling J. **Mol Med Today** 1997 Apr; 3(4):144-5

The best cytokine for the job [letter; comment] Levitsky HI. **Nat Med** 1997 Feb;3(2):126. Comment on: Nat Med 1996 Oct;2(10):1090-5.

Canada wins biotech boost of cancer vaccine project [news] Spurgeon D. **Nature** 1997 Jul 17;388(6639):214

Subcutaneous vaccination with irradiated, cytokine-producing tumor cells stimulates CD8+ cell-mediated immunity against tumors located in the "immunologically privileged" central nervous system. Sampson JH, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10399-404

Effect of active immunization against luteinizing hormone-releasing hormone on the androgen-sensitive Dunning R3327-PAP and androgen-independent Dunning R3327-AT2.1 prostate cancer sublines. Fuerst J, et al. **Prostate** 1997 Jul 1;32(2):77-84

Antigen-specific agents in development. Sznol M, et al. **Semin Oncol** 1997 Apr;24(2):173-86 (120 ref.)

The effectiveness of active specific immunotherapy using interferon-gamma-gene-transduced tumor cells in a murine tumor model. Moriguchi Y, et al. **Surg Today** 1997; 27(6):571-3

[Gene therapy of malignant tumors. Prospects of cytokine gene transfer vaccines] Bubeník J. **Cas Lek Cesk** 1997 Jan 8;136(1):17-21 (49 ref.) (Eng. Abstr.) **(Cze)**

ADMINISTRATION & DOSAGE

Immune response to polyvalent melanoma cell vaccine in AJCC stage III melanoma: an immunologic survival model. Jones RC, et al. **Ann Surg Oncol** 1996 Sep;3(5):437-45

Results of a phase I trial of a recombinant vaccinia virus that expresses carcinoembryonic antigen in patients with advanced colorectal cancer. McAneny D, et al. **Ann Surg Oncol** 1996 Sep;3(5):495-500

Promising lung cancer vaccine [news] **Environ Health Perspect** 1996 Nov;104(11):1147-8

Characterization of anti-tumor immunity derived from the inoculation of myeloma cells secreting the fusion protein RM4/IFN-tau. Qi Y, et al. **Hum Antibodies Hybridomas** 1996;7(1):21-6

Dendritic cells transduced with an adenoviral vector encoding a model tumor-associated antigen for tumor vaccination. Wan Y, et al. **Hum Gene Ther** 1997 Jul 20; 8(11):1355-63

Enhanced immune priming with spatial distribution of paracrine cytokine vaccines. Jaffee EM, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):176-83

Route of immunization and the therapeutic impact of recombinant anticancer vaccines. Irvine KR, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):390-2 (9 ref.)

Modulation of specific active immunization against murine melanoma using recombinant cytokines. Stidham KR, et al. **Surg Oncol** 1996 Oct-Dec;5(5-6):221-9

CHEMICAL SYNTHESIS

Total synthesis of the potential anticancer vaccine KH-1 adenocarcinoma antigen [published erratum appears in Nature 1997 Jul 10;388(6638):210] Deshpande PP, et al. **Nature** 1997 May 8;387(6629):164-6

CHEMISTRY

Preparation of a multiple antigen glycopeptide (MAG) carrying the Tn antigen. A possible approach to a synthetic carbohydrate vaccine. Bay S, et al. **J Pept Res** 1997 Jun; 49(6):620-5

Cell-free tumor antigen peptide-based cancer vaccines. Schmidt W, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3262-7

GENETICS

Generation of effective cancer vaccines genetically engineered to secrete cytokines using adenovirus-enhanced transferrinfection (AVET). Schmidt W, et al. **Gene** 1997 Apr 29;190(1):211-6

Rapid production of interleukin-2-secreting tumor cells by herpes simplex virus-mediated gene transfer: implications for autologous vaccine production. Tung C, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2217-24

Influence of gene-modified (IL-7, IL-4, and B7) tumor cell vaccines on tumor antigen presentation. Cayeux S, et al. **J Immunol** 1997 Mar 15;158(6):2834-41

IMMUNOLOGY

HER-2/neu protein: a target for antigen-specific immunotherapy of human cancer. Disis ML, et al. **Adv Cancer Res** 1997;71:343-71 (105 ref.)

Tumor cells transfected with B7-1 and interleukin-12 cDNA induce protective immunity. Chen PW, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:325-7

IL-12-engineered dendritic cells serve as effective tumor vaccine adjuvants in vivo. Zitvogel L, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:284-93

Recognition of tumor-associated antigens by T-lymphocytes: perspectives for peptide-based vaccines. Cerottini JC, et al. **Ann Oncol** 1996 Apr;7(4):339-42 (52 ref.)

Cellular cancer vaccine induces delayed-type hypersensitivity reaction and augments antibody response to tumor-associated carbohydrate antigens (sialyl Le(a), sialyl Le(x), GD3 and GM2) better than soluble lysate cancer vaccine. Ravindranath MH, et al. **Anticancer Drugs** 1997 Mar;8(3):217-24

Modulation of the immunostimulating effect of autologous tumor vaccine by anti-TGF-beta antibody and interferon-alpha on murine MBT-2 bladder cancer. Tzai TS, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1073-8

Immunogenicity increase of autologous tumor cell vaccines by virus infection and attachment of bispecific antibodies. Haas C, et al. **Cancer Immunol Immunother** 1996 Nov; 43(3):190-4 (41 ref.)

Interleukin-2 secretion by KHT sarcoma cells leads to loss of their vaccine potential. Hsu SC, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):117-24

Tumor cell reactivity mediated by IgM antibodies in sera from melanoma patients vaccinated with GM2 ganglioside covalently linked to KLH is increased by IgG antibodies. Livingston P, et al. **Cancer Immunol Immunother** 1997 Jan; 43(6):324-30

Variant mouse lymphoma cells with modified response to interferon demonstrate enhanced immunogenicity. Mador N, et al. **Cancer Immunol Immunother** 1997 Jul;44(5):249-56

Immunogenicity of membrane-bound gangliosides in viable whole-cell vaccines. Ravindranath MH, et al. **Cancer Invest** 1997;15(5):491-9 (72 ref.)

Reduced efficacy of allogeneic versus syngeneic fibroblasts modified to secrete cytokines as a tumor vaccine adjuvant. Aruga A, et al. **Cancer Res** 1997 Aug 1;57(15):3230-7

Protective immunity induced by tumor vaccines requires interaction between CD40 and its ligand, CD154. Mackey MF, et al. **Cancer Res** 1997 Jul 1;57(13):2569-74

Induction of antitumor immunity by an anti-idiotype antibody mimicking carcinoembryonic antigen. Pervin S, et al. **Cancer Res** 1997 Feb 15;57(4):728-34

Tumour cell vaccines that secrete interleukin-2 (IL-2) and interferon gamma (IFN gamma) are recognised by T cells while resisting destruction by natural killer (NK) cells. Zier KS, et al. **Eur J Cancer** 1996 Jul;32A(8):1408-12

Lack of correlation between rejection of tumor cells co-expressing interleukin-2 and B7.1 and vaccine efficiency. Cayeux S, et al. **Eur J Immunol** 1997 Jul; 27(7):1657-62

Antigen-presenting cells pulsed with unfractionated tumor-derived peptides are potent tumor vaccines. Nair SK, et al. **Eur J Immunol** 1997 Mar;27(3):589-97

The defined attenuated Listeria monocytogenes delta mp12

mutant is an effective oral vaccine carrier to trigger a long-lasting immune response against a mouse fibrosarcoma. Paglia P, et al. **Eur J Immunol** 1997 Jun; 27(6):1570–5

Tumor cells expressing a recall antigen are powerful cancer vaccines. Schweighoffer T. **Eur J Immunol** 1996 Nov; 26(11):2559–64

Processing of tumor tissues for vaccination with autologous tumor cells. Lahn M, et al. **Eur Surg Res** 1997;29(4):292–302

Depletion of naive T cells of the peripheral lymph nodes abrogates systemic antitumor protection conferred by IL-2 secreting cancer vaccines. Schweighoffer T, et al. **Gene Ther** 1996 Sep;3(9):819–24

Comparison of IL-2- and IL-4-transfected B16-F10 cells with a novel oil-microemulsion adjuvant for B16-F10 whole cell tumour vaccine. Souberbielle BE, et al. **Gene Ther** 1996 Oct;3(10):853–8

Low doses of 105AD7 cancer vaccine preferentially stimulate anti-tumor T-cell immunity. Durrant LG, et al. **Hybridoma** 1997 Feb;16(1):23–6

Production of a single-chain fragment of the murine anti-idiotypic antibody ACA125 as phage-displayed and soluble antibody by recombinant phage antibody technique. Schlebusch H, et al. **Hybridoma** 1997 Feb;16(1):47–52

Immunological responses to the tumor-associated antigen CA125 in patients with advanced ovarian cancer induced by the murine monoclonal anti-idiotype vaccine ACA125. Wagner U, et al. **Hybridoma** 1997 Feb;16(1):33–40

Vaccines for control of fertility and hormone-dependent cancers. Talwar GP. **Immunol Cell Biol** 1997 Apr; 75(2):184–9

Natural anti-Gal antibody as a universal augmenter of autologous tumor vaccine immunogenicity. Galili U, et al. **Immunol Today** 1997 Jun;18(6):281–5 (58 ref.)

Cytokines, tumour-cell death and immunogenicity: a question of choice. Musiani P, et al. **Immunol Today** 1997 Jan; 18(1):32–6 (38 ref.)

T-cell receptor CDR3 size distribution analysis to evaluate specific T-cell response to cancer vaccines. Farace F, et al. **Int J Cancer** 1997 Jun 11;71(6):972–7

Development of cancer vaccine by tumor rejection antigens. Itoh K, et al. **Int Rev Immunol** 1997;14(2-3):153–71 (29 ref.)

Clonal expansion of T lymphocytes in human melanoma metastases after treatment with a hapten-modified autologous tumor vaccine. Sensi M, et al. **J Clin Invest** 1997 Feb 15;99(4):710–7

Rejection of a nonimmunogenic melanoma by vaccination with natural melanoma peptides on engineered antigen-presenting cells. Bellone M, et al. **J Immunol** 1997 Jan 15;158(2):783–9

Influence of gene-modified (IL-7, IL-4, and B7) tumor cell vaccines on tumor antigen presentation. Cayeux S, et al. **J Immunol** 1997 Mar 15;158(6):2834–41

Immunotherapy of experimental metastases by vaccination with interleukin gene-transduced adenocarcinoma cells sharing tumor-associated antigens. Comparison between IL-12 and IL-2 gene-transduced tumor cell vaccines. Rodolfo M, et al. **J Immunol** 1996 Dec 15;157(12):5536–42

DNA vaccines against lymphoma: promotion of anti-idiotypic antibody responses induced by single chain Fv genes by fusion to tetanus toxin fragment C. Spellerberg MB, et al. **J Immunol** 1997 Aug 15;159(4):1885–92

Effective immunization against neuroblastoma using double-transduced tumor cells secreting GM-CSF and interferon-gamma. Bausero MA, et al. **J Immunother Emphasis Tumor Immunol** 1996 Mar; 19(2):113–24

Enhanced immune priming with spatial distribution of paracrine cytokine vaccines. Jaffee EM, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):176–83

Differences in frequency distribution of HLA-A2 subtypes between North American and Italian white melanoma patients: relevance for epitope specific vaccination protocols. Player MA, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):357–63

Systemic and local paracrine cytokine therapies using transduced tumor cells are synergistic in treating intracranial tumors. Thompson RC, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):405–13

Human papillomavirus variants: implications for natural history studies and vaccine development efforts [editorial; comment] Hildesheim A. **J Natl Cancer Inst** 1997 Jun 4; 89(11):752–3. Comment on: J Natl Cancer Inst 1997 Jun 4;89(11):796–802.

A genetically modified allogeneic cellular vaccine generates MHC class I-restricted cytotoxic responses against tumor-associated antigens and protects against CNS tumors in vivo. Ashley DM, et al. **J Neuroimmunol** 1997 Sep; 78(1-2):34–46

Specific serological response by active immunization with GD3-bearing liposomes. Massó O, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1114–20

Chaperoning tumour antigens into the immune system [news] Featherstone C. **Lancet** 1996 Nov 23;348(9039):1438

Induction of antigen-specific tumor immunity by genetic and cellular vaccines against MAGE: enhanced tumor protection by coexpression of granulocyte-macrophage colony-stimulating factor and B7-1. Büeler H, et al. **Mol Med** 1996 Sep;2(5):545–55

Antigen expression by dendritic cells correlates with the therapeutic effectiveness of a model recombinant poxvirus tumor vaccine. Bronte V, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3183–8

Vaccination with syngeneic, lymphoma-derived immunoglobulin idiotype combined with granulocyte/macrophage colony-stimulating factor primes mice for a protective T-cell response. Kwak LW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10972–7

Papillomavirus-like particles and HPV vaccine development. Schiller JT, et al. **Semin Cancer Biol** 1996 Dec;7(6):373–82 (65 ref.)

Tumor antigens and tumor vaccines: peptides as immunogens. Slingluff CL Jr. **Semin Surg Oncol** 1996 Nov-Dec; 12(6):446–53 (89 ref.)

Bone marrow-derived dendritic cells serve as potent adjuvants for peptide-based antitumor vaccines. Mayordomo JI, et al. **Stem Cells** 1997;15(2):94–103 (59 ref.)

Immunodominance deters the response to other tumor antigens thereby favoring escape: prevention by vaccination with tumor variants selected with cloned cytolytic T cells in vitro. Van Waes C, et al. **Tissue Antigens** 1996 May;47(5):399–407

Construction and characterisation of a recombinant vaccinia virus expressing human papillomavirus proteins for immunotherapy of cervical cancer. Boursnell ME, et al. **Vaccine** 1996 Nov;14(16):1485–94

Highly attenuated modified vaccinia virus Ankara (MVA) as an effective recombinant vector: a murine tumor model. Carroll MW, et al. **Vaccine** 1997 Mar;15(4):387–94

Diversified prime and boost protocols using recombinant vaccinia virus and recombinant non-replicating avian pox virus to enhance T-cell immunity and antitumor responses. Hodge JW, et al. **Vaccine** 1997 Apr-May;15(6-7):759–68

[Cytotoxic T-lymphocytes and the recognition of tumor antigens--an approach to "preventive tumor vaccination?"] Peiper M, et al. **Zentralbl Chir** 1997;122(3):141–8 (50 ref.) (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Recombinant Listeria monocytogenes cancer vaccines. Paterson Y, et al. **Curr Opin Immunol** 1996 Oct;8(5):664–9

The new vaccines: building viruses that elicit antitumor immunity. Restifo NP. **Curr Opin Immunol** 1996 Oct; 8(5):658–63 (54 ref.)

PHARMACOLOGY

Anti-idiotype cancer vaccines: past and future. Herlyn D, et al. **Cancer Immunol Immunother** 1996 Oct;43(2):65–76 (105 ref.)

Antitumor activity and immunotherapeutic properties of Flt3-ligand in a murine breast cancer model. Chen K, et al. **Cancer Res** 1997 Aug 15;57(16):3511–6

Peptide-based cancer vaccines. Melief CJ, et al. **Curr Opin Immunol** 1996 Oct;8(5):651–7 (66 ref.)

Human papillomavirus vaccines for cervical cancer. Tindle RW. **Curr Opin Immunol** 1996 Oct;8(5):643–50 (63 ref.)

Active specific immunotherapy of pulmonary metastasis with vaccinia melanoma oncolysate prepared from granulocyte/macrophage-colony-stimulating-factor-gene-encoded vaccinia virus. Ju DW, et al. **J Cancer Res Clin Oncol** 1996;122(12):716–22

Human papillomavirus variants: implications for natural history studies and vaccine development efforts [editorial; comment] Hildesheim A. **J Natl Cancer Inst** 1997 Jun 4; 89(11):752–3. Comment on: J Natl Cancer Inst 1997 Jun 4;89(11):796–802.

RADIATION EFFECTS

Effect of irradiation on cytokine production, MHC antigen expression, and vaccine potential of interleukin-2 and interferon-gamma gene-modified melanoma cells. Abdel-Wahab Z, et al. **Cell Immunol** 1996 Aug 1; 171(2):246–54

STANDARDS

Tumor-cell number and viability as quality and efficacy parameters of autologous virus-modified cancer vaccines in patients with breast or ovarian cancer [published erratum appears in J Clin Oncol 1997 Jul;15(7):2763] Ahlert T, et al. **J Clin Oncol** 1997 Apr;15(4):1354–66

THERAPEUTIC USE

Tumor-specific idiotype vaccines in the treatment of patients with B-cell lymphoma--long-term results of a clinical trial. Hsu FJ, et al. **Blood** 1997 May 1;89(9):3129–35

Recombinant vaccinia expressing interleukin-2 for cancer gene therapy. Qin H, et al. **Cancer Gene Ther** 1996 May-Jun;3(3):163–7

Making the most of mucin: a novel target for tumor immunotherapy. Barratt-Boyes SM. **Cancer Immunol Immunother** 1996 Nov;43(3):142–51 (65 ref.)

Immunogenicity increase of autologous tumor cell vaccines by virus infection and attachment of bispecific antibodies. Haas C, et al. **Cancer Immunol Immunother** 1996 Nov; 43(3):190–4 (41 ref.)

Carcinoembryonic antigen as a target for cancer vaccines. Hodge JW. **Cancer Immunol Immunother** 1996 Nov; 43(3):127–34 (32 ref.)

Carbohydrate antigens as targets for active specific immunotherapy. Ragupathi G. **Cancer Immunol Immunother** 1996 Nov;43(3):152–7 (61 ref.)

Active specific immunotherapy with hapten-modified autologous melanoma cell vaccine. Sato T. **Cancer Immunol Immunother** 1996 Nov;43(3):174–9

Trioma-based vaccination against B-cell lymphoma confers long-lasting tumor immunity. Mocikat R, et al. **Cancer Res** 1997 Jun 15;57(12):2346–9

A naturally occurring mutant human epidermal growth factor receptor as a target for peptide vaccine immunotherapy of tumors. Moscatello DK, et al. **Cancer Res** 1997 Apr 15;57(8):1419–24

Bioactivity of autologous irradiated renal cell carcinoma vaccines generated by ex vivo granulocyte-macrophage colony-stimulating factor gene transfer. Simons JW, et al. **Cancer Res** 1997 Apr 15;57(8):1537–46

Use of vaccines in treatment of malignant melanoma. Bystryn JC, et al. **Clin Dermatol** 1996 Jul-Aug;14(4):337–41 (13 ref.)

Current status of melanoma vaccines. Kuhn CA, et al. **Dermatol Surg** 1997 Aug;23(8):649–54; discussion 654–5 (33 ref.)

Phase Ia trial of a polynucleotide anti-tumor immunization to human carcinoembryonic antigen in patients with metastatic colorectal cancer. Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, Alabama. **Hum Gene Ther** 1996 Apr 10; 7(6):755–72

Phase I/IB study of immunization with autologous tumor cells transfected with the GM-CSF gene by particle-mediated transfer in patients with melanoma or sarcoma. Mahvi DM, et al. **Hum Gene Ther** 1997 May 1; 8(7):875–91

Breast cancer immunotherapy: current status and future prospects. Apostolopoulos V, et al. **Immunol Cell Biol** 1996 Oct;74(5):457–64 (41 ref.)

Cancer vaccines based on the identification of genes encoding cancer regression antigens. Rosenberg SA. **Immunol Today** 1997 Apr;18(4):175–82 (59 ref.)

B7-1-transfected tumor vaccine counteracts chemotherapy-induced immunosuppression and prolongs the survival of rats bearing highly metastatic osteosarcoma cells. Hayakawa M, et al. **Int J Cancer** 1997 Jun 11; 71(6):1091–102

A phase-I clinical study of autologous tumor cells plus interleukin-2-gene-transfected allogeneic fibroblasts as a vaccine in patients with cancer. Veelken H, et al. **Int J Cancer** 1997 Jan 27;70(3):269–77

An HTLV-I/II vaccine: from animal models to clinical trials? de Thé G, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S191–8 (48 ref.)

Autologous hapten-modified melanoma vaccine as postsurgical adjuvant treatment after resection of nodal metastases. Berd D, et al. **J Clin Oncol** 1997 Jun; 15(6):2359–70

Active specific immunotherapy of metastatic melanoma with an antiidiotype vaccine: a phase I/II trial of I-Mel-2 plus SAF-m. Quan WD Jr, et al. **J Clin Oncol** 1997 May; 15(5):2103–10

Adoptive immunotherapy as an in vivo model to explore antitumor mechanisms induced by a recombinant anticancer vaccine. Abrams SI, et al. **J Immunother** 1997 Jan;20(1):48–59

Therapeutic antitumor response after immunization with an admixture of recombinant vaccinia viruses expressing a modified MUC1 gene and the murine T-cell costimulatory molecule B7. Akagi J, et al. **J Immunother** 1997 Jan; 20(1):38–47

A phase I randomized study of subcutaneous adjuvant IL-2 in combination with an autologous tumor vaccine in patients with advanced renal cell carcinoma. Fenton RG, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):364–74

Enhancing the effect of THERATOPE STn-KLH cancer vaccine in patients with metastatic breast cancer by pretreatment with low-dose intravenous cyclophosphamide. MacLean GD, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jul; 19(4):309–16

Antibodies against mucin-associated sialyl-Tn epitopes correlate with survival of metastatic adenocarcinoma patients undergoing active specific immunotherapy with synthetic STn vaccine. MacLean GD, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jan; 19(1):59–68

Induction of tumor-specific cytotoxic T lymphocytes by immunization with autologous tumor cells and interleukin-2 gene transfected fibroblasts. Mackensen A, et al. **J Mol Med** 1997 Apr;75(4):290–6

Phase I study to the immunotherapy of metastatic malignant melanoma by a cancer vaccine consisting of autologous cancer cells transfected with the human IL-2 gene. Stingl G, et al. **J Mol Med** 1997 Apr;75(4):297–9

Update on active specific immunotherapy with melanoma vaccines. Conforti AM, et al. **J Surg Oncol** 1997 Sep; 66(1):55–64 (93 ref.)

Anti-idiotypic monoclonal antibodies as therapeutic vaccines [letter; comment] Ferrone S. **Melanoma Res** 1996 Apr; 6(2):179. Comment on: Melanoma Res 1996 Feb;6(1):5–10.

Allogeneic murine melanoma cell vaccine: a model for the

CANCER VACCINES

development of human allogeneic cancer vaccine. Knight BC, et al. **Melanoma Res** 1996 Aug;6(4):299–306
Effective tumor vaccines generated by in vitro modification of tumor cells with cytokines and bispecific monoclonal antibodies. Guo YJ, et al. **Nat Med** 1997 Apr;3(4):451–5
Clinical Trials Referral Resource. Trials using tumor vaccines. Cheson BD, et al. **Oncology (Huntingt)** 1997 Jan; 11(1):81–2, 84, 90
Melanoma–associated tumor antigens and their clinical relevance to immunotherapy. Gattoni–Celli S, et al. **Semin Oncol** 1996 Dec;23(6):754–8 (39 ref.)
Active specific immunization in the treatment of patients with melanoma. Mastrangelo MJ, et al. **Semin Oncol** 1996 Dec; 23(6):773–81 (57 ref.)
[Adoptive immunotherapy for pancreatic cancer, using MUC1 specific CTL] Masaki Y, et al. **Gan To Kagaku Ryoho** 1996 Oct;23(12):1679–80 (3 ref.) (Eng. Abstr.) **(Jpn)**
[Probability of vaccine therapy for pancreas cancer] Takahashi M, et al. **Gan To Kagaku Ryoho** 1996 Oct; 23(12):1676–8 (Eng. Abstr.) **(Jpn)**

CANCRUM ORIS see **NOMA**

CANDICIDIN

ADMINISTRATION & DOSAGE

[The antifungal and immunomodulating lymphotropic therapy of candidiasis of the oral mucosa] Shumskil AV, et al. **Stomatologiia (Mosk)** 1996;75(4):17–9 (Eng. Abstr.) **(Rus)**

CANDIDA

Dysregulation of the polymorphonuclear leukocyte–Candida spp. interaction in HIV–positive patients. Wenisch C, et al. **AIDS** 1996 Aug;10(9):983–7
Urokinase in the treatment of bacteremia and candidemia in patients with right atrial catheters. Jones GR, et al. **Am J Infect Control** 1996 Jun;24(3):160–6
Long–term suppressive therapy for fungal endocarditis [letter; comment] Baddour LM. **Clin Infect Dis** 1996 Dec; 23(6):1338–40. Comment on: Clin Infect Dis 1996 Feb;22(2):348–54.
Rising incidence of Candida parapsilosis fungemia in patients with hematologic malignancies: clinical aspects, predisposing factors, and differential pathogenicity of the causative strains. Girmenia C, et al. **Clin Infect Dis** 1996 Sep;23(3):506–14
Candida–related changes and ASCUS: a potential trap! Miguel NL Jr, et al. **Diagn Cytopathol** 1997 Jan;16(1):83–6
High–level expression of a sweet protein, monellin, in the food yeast Candida utilis. Kondo K, et al. **Nat Biotechnol** 1997 May;15(5):453–7

CHEMISTRY

Structure of a cell wall mannan from the pathogenic yeast, Candida catenulata: assignment of 1H nuclear magnetic resonance chemical shifts of the inner alpha–1,6–linked mannose residues substituted by a side chain. Kobayashi H, et al. **Arch Biochem Biophys** 1997 May 1;341(1):70–4
Structure and antigenicity of the mannans of Candida famata and Candida saitoana: comparative study with the mannan of Candida guilliermondii. Shibata N, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):49–58
Phospholipid profiles in the oral yeast Candida. Abdi M, et al. **Arch Oral Biol** 1996 Jun;41(6):517–22
Demonstration of the presence of alpha–1,6–branched side chains in the mannan of Candida stellatoidea. Shibata N, et al. **Eur J Biochem** 1997 Jun 1;246(2):477–85
NMR assignment of the galactomannan of Candida lipolytica. Ikuta K, et al. **FEBS Lett** 1997 Sep 8;414(2):338–42
Cell lipids of the Candida lipolytica yeast grown on methanol. Rupčić J, et al. **J Chromatogr A** 1996 Nov 29;755(1):75–80
Membrane phospholipids in temperature adaptation of Candida utilis: alterations in fatty acid chain length and unsaturation. Suutari M, et al. **J Lipid Res** 1997 Apr; 38(4):790–4

CLASSIFICATION

Candida novakii, sp. nov. a new anamorphic yeast species of ascomycetous affinity. Péter G, et al. **Antonie Van Leeuwenhoek** 1997 May;71(4):375–8
The epidemiology of hematogenous candidiasis caused by different Candida species [see comments] Abi–Said D, et al. **Clin Infect Dis** 1997 Jun;24(6):1122–8. Comment in: Clin Infect Dis 1997 Jun;24(6):1129–30.
Molecular typing for investigating an outbreak of Candida krusei. Noskin GA, et al. **Diagn Microbiol Infect Dis** 1996 Nov–Dec;26(3–4):117–23
Variations in DNA subtype and antifungal susceptibility among clinical isolates of Candida tropicalis. Zhang J, et al. **Diagn Microbiol Infect Dis** 1997 Mar;27(3):63–7
Comparison of three commercial media for direct identification and discrimination of Candida species in clinical specimens. Freydière AM, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):464–7
Prevalence and antifungal susceptibility of vaginal yeasts in outpatients attending a gynecological center in Ancona, Italy. Arzeni D, et al. **Eur J Epidemiol** 1997 Jun; 13(4):447–50
Use of electrophoretic karyotyping in the evaluation of Candida infections in a neonatal intensive–care unit. Vazquez JA, et al. **Infect Control Hosp Epidemiol** 1997 Jan; 18(1):32–7
Clinical isolates of Candida guilliermondii include Candida fermentati. San Millán RM, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):385–93
Candida aquaetextoris sp. nov., a new species of yeast occurring in sludge from a textile industry wastewater treatment plant in Tuscany, Italy. Vallini G, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):336–40
Species–specific identification of Candida krusei by hybridization with the CkF1,2 DNA probe. Carlotti A, et al. **J Clin Microbiol** 1996 Jul;34(7):1726–31
Evaluation of the Microbial Identification System for identification of clinically isolated yeasts. Crist AE Jr, et al. **J Clin Microbiol** 1996 Oct;34(10):2408–10
Evaluation of pulsed–field gel electrophoresis as a typing system for Candida rugosa: comparison of karyotype and restriction fragment length polymorphisms. Dib JC, et al. **J Clin Microbiol** 1996 Jun;34(6):1494–6
Evaluation of CHROMagar Candida plates [letter; comment] Freydiere AM. **J Clin Microbiol** 1996 Aug;34(8):2048. Comment on: J Clin Microbiol 1996 Jan;34(1):58–61.
Comparison of the new API Candida system to the ID 32C system for identification of clinically important yeast species. Fricker–Hidalgo H, et al. **J Clin Microbiol** 1996 Jul;34(7):1846–8
Identification of clinically important ascomycetous yeasts based on nucleotide divergence in the 5' end of the large–subunit (26S) ribosomal DNA gene. Kurtzman CP, et al. **J Clin Microbiol** 1997 May;35(5):1216–23
Screening protocol for Torulopsis (Candida) glabrata. Land G, et al. **J Clin Microbiol** 1996 Sep;34(9):2300–3
Species differentiation by internally transcribed spacer PCR and HhaI digestion of fluconazole–resistant Candida krusei, Candida inconspicua, and Candida norvegensis strains. Nho S, et al. **J Clin Microbiol** 1997 Apr;35(4):1036–9
Candida and Torulopsis: a blinded evaluation of use of pseudohypha formation as basis for identification of medically important yeasts. Odds FC, et al. **J Clin Microbiol** 1997 Jan;35(1):313–6
Identification of Candida species by randomly amplified polymorphic DNA fingerprinting of colony lysates. Steffan P, et al. **J Clin Microbiol** 1997 Aug;35(8):2031–9
Taxonomic position of clinical isolates of Candida famata. Nishikawa A, et al. **J Med Vet Mycol** 1996 Nov–Dec; 34(6):411–9
Atypical strains of Candida albicans recovered from AIDS patients. Pujol C, et al. **J Med Vet Mycol** 1997 Mar–Apr; 35(2):115–21
Random amplified polymorphic DNA analysis of culture collection strains of Candida species. Zeng S, et al. **J Med Vet Mycol** 1996 Jul–Aug;34(4):293–7
Prevalence of Candida species in hospital–acquired urinary tract infections in a neonatal intensive care unit. Phillips JR, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):190–4
[The identification of species of the genus Candida] Shopova E, et al. **Akush Ginekol (Sofiia)** 1996;35(1–2):36–7 (Eng. Abstr.) **(Bul)**
[Clinical aspects and prognosis of candidemia, a 6–year retrospective study] Bregenzer T, et al. **Schweiz Med Wochenschr** 1996 Oct 26;126(43):1829–33 (Eng. Abstr.) **(Ger)**

CYTOLOGY

Similes and metaphors I: A nature walk through benign gynecologic cytology. Koizumi JH. **Diagn Cytopathol** 1996 Aug;15(2):161–6
Assessment of viability of yeast by flow cytometry using Light Green as vital dye exclusion. Alvarado–Aleman FJ, et al. **Rev Latinoam Microbiol** 1996 Jan–Mar;38(1):25–30

DRUG EFFECTS

Mechanisms of resistance to azole antifungals. Marichal P, et al. **Acta Biochim Pol** 1995;42(4):509–16 (57 ref.)
Itraconazole cyclodextrin solution: the role of in vitro susceptibility testing in predicting successful treatment of HIV–related fluconazole–resistant and fluconazole–susceptible oral candidosis. Cartledge JD, et al. **AIDS** 1997 Feb;11(2):163–8
In vitro activity of Cinnamomum zeylanicum against azole resistant and sensitive Candida species and a pilot study of cinnamon for oral candidiasis. Quale JM, et al. **Am J Chin Med** 1996;24(2):103–9
In vitro susceptibility of clinical yeast isolates to fluconazole and terconazole. Cooper CR Jr, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1626–31
Inhibitory effects of seven organosulphur compounds on clinical isolates of Candida species in vitro. Shah DT, et al. **Ann Clin Lab Sci** 1997 Jul–Aug;27(4):282–6
In vitro studies of two triazole antifungal agents (voriconazole [UK–109,496] and fluconazole) against Candida species. Barry AL, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1948–9
Voriconazole (UK–109,496) inhibits the growth and alters the morphology of fluconazole–susceptible and –resistant Candida species. Belanger P, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1840–2
In vitro activity of fluvastatin, a cholesterol–lowering agent, and synergy with flucanazole and itraconazole against Candida species and Cryptococcus neoformans. Chin NX, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):850–2
Correlation between rhodamine 123 accumulation and azole sensitivity in Candida species: possible role for drug efflux in drug resistance. Clark FS, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):419–25
In vitro studies of activities of the antifungal triazoles SCH56592 and itraconazole against Candida albicans, Cryptococcus neoformans, and other pathogenic yeasts. Galgiani JN, et al. **Antimicrob Agents Chemother** 1997 Jan; 41(1):180–3
Enhanced oxidative killing of azole–resistant Candida glabrata strains with ERG11 deletion. Kan VL, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1717–9
Response to fluconazole by 23 patients with human immunodeficiency virus infection and oral candidiasis: pharmacological and mycological factors. Lacassin F, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1961–3
Antifungal drug susceptibilities of oral Candida dubliniensis isolates from human immunodeficiency virus (HIV)–infected and non–HIV–infected subjects and generation of stable fluconazole–resistant derivatives in vitro. Moran GP, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):617–23
Susceptibilities of Candida spp. to antifungal agents visualized by two–dimensional scatterplots of relative growth. Odds FC, et al. **Antimicrob Agents Chemother** 1996 Mar; 40(3):588–94
Evaluation of a flow cytofluorometric method for rapid determination of amphotericin B susceptibility of yeast isolates. Peyron F, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1537–40
Activity of a new triazole, Sch 56592, compared with those of four other antifungal agents tested against clinical isolates of Candida spp. and Saccharomyces cerevisiae. Pfaller MA, et al. **Antimicrob Agents Chemother** 1997 Feb; 41(2):233–5
Candida norvegensis: a fluconazole–resistant species. Sandven P, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1375–6
In vitro activity of a new echinocandin, LY303366, compared with those of amphotericin B and fluconazole against clinical yeast isolates. Uzun O, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1156–7
In vitro activity of a new pneumocandin antifungal, L–743,872, against azole–susceptible and –resistant Candida species. Vazquez JA, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1612–4
Reduced accumulation of drug in Candida krusei accounts for itraconazole resistance. Venkateswarlu K, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2443–6
In vitro activity of BMS–181184 compared with those of fluconazole and amphotericin B against various candida spp. Wardle HM, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2229–31
T–8581, a new orally and parenterally active triazole antifungal agent: in vitro and in vivo evaluations. Yotsuji A, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):30–4
The effect of formaldehyde on the growth of Candida diddensii 74–10 and Candida tropicalis R–70. Katranushkova C, et al. **Appl Biochem Biotechnol** 1997 Apr; 66(1):31–7
Susceptibility of Helicobacter pylori and Candida spp. to the east African plant Terminalia spinosa. Fabry W, et al. **Arzneimittelforschung** 1996 May;46(5):539–40
In vitro synergistic activity of ketoconazole with valproic acid against Candida species. Krajewska–Kułak E, et al. **Arzneimittelforschung** 1996 Sep;46(9):934–6
Effects of pH on the toxicity of cadmium, copper, lead and zinc to Folsomia candida Willem, 1902 (Collembola) in a standard laboratory test system. Sandifer RD, et al. **Chemosphere** 1996 Dec;33(12):2475–86
Candida inconspicua, a fluconazole–resistant pathogen in patients infected with human immunodeficiency virus. Baily GG, et al. **Clin Infect Dis** 1997 Jul;25(1):161–3
Strain variation and antifungal susceptibility among bloodstream isolates of Candida species from 21 different medical institutions. Pfaller MA, et al. **Clin Infect Dis** 1995 Dec;21(6):1507–9
Emergence of resistance to amphotericin B during therapy for Candida glabrata infection in an immunocompetent host. Sterling TR, et al. **Clin Infect Dis** 1996 Jul;23(1):187–8
Making antifungal susceptibility testing a clinically useful tool [editorial; comment] Sugar AM. **Clin Infect Dis** 1997 Feb; 24(2):248–9. Comment on: Clin Infect Dis 1997 Feb;24(2):235–47.
DNA macrorestriction profiles and antifungal susceptibility of Candida (Torulopsis) glabrata. Cormican MG, et al. **Diagn Microbiol Infect Dis** 1996 Jun;25(2):83–7
Antifungal dynamics of LY 303366, an investigational echinocandin B analog, against Candida ssp. Ernst ME, et al. **Diagn Microbiol Infect Dis** 1996 Nov–Dec; 26(3–4):125–31
Rapid detection of susceptibility to fluconazole in Candida species by a bioluminescence assay of intracellular ATP. Kretschmar M, et al. **Diagn Microbiol Infect Dis** 1996 Jul; 25(3):117–21
Cross–resistance phenotypes of fluconazole–resistant Candida species: results with 655 clinical isolates with different methods. Stevens DA, et al. **Diagn Microbiol Infect Dis** 1996 Nov–Dec;26(3–4):145–8

Variations in DNA subtype and antifungal susceptibility among clinical isolates of Candida tropicalis. Zhang J, et al. **Diagn Microbiol Infect Dis** 1997 Mar;27(3):63–7

In vitro susceptibility of 115 isolates of Candida to amphotericin B, fluconazole and itraconazole. Mallié M, et al. **Drugs Exp Clin Res** 1996;22(6):301–7

When should Candida isolates be tested for susceptibility to azole antifungal agents? [editorial] Bille J. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):281–2

Palmitoyl carnitine, a lysophospholipase–transacylase inhibitor, prevents Candida adherence in vitro. Prakobphol A, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):89–94

Role of lipids in ethanol tolerance of Candida lambica. el Dein MM. **Indian J Exp Biol** 1997 Jan;35(1):89–91

Antifungal susceptibility pattern of non–albicans Candida species & distribution of species isolated from Candidaemia cases over a 5 year period. Chakrabarti A, et al. **Indian J Med Res** 1996 Aug;104:171–6

In–vitro susceptibility pattern of Candida lusitaniae and evaluation of the Etest method. Favel A, et al. **J Antimicrob Chemother** 1997 May;39(5):591–6

Amphotericin B resistance testing of Candida spp.: a comparison of methods. Law D, et al. **J Antimicrob Chemother** 1997 Jul;40(1):109–12

In–vitro activity of D0870, a new triazole antifungal drug, in comparison with fluconazole and itraconazole against Aspergillus fumigatus and Candida krusei. Venkateswarlu K, et al. **J Antimicrob Chemother** 1997 Jun;39(6):731–6

Fluconazole disk diffusion procedure for determining susceptibility of Candida species. Barry AL, et al. **J Clin Microbiol** 1996 Sep;34(9):2154–7

Strain variation among and antifungal susceptibilities of isolates of Candida krusei. Berrouane YF, et al. **J Clin Microbiol** 1996 Jul;34(7):1856–8

Lot–to–lot variability of antibiotic medium 3 used for testing susceptibility of Candida isolates to amphotericin B. Lozano–Chiu M, et al. **J Clin Microbiol** 1997 Jan; 35(1):270–2

Multisite reproducibility of the Etest MIC method for antifungal susceptibility testing of yeast isolates. Pfaller MA, et al. **J Clin Microbiol** 1996 Jul;34(7):1691–3

Semisynthetic derivatives of purpuromycin as potential topical agents for vaginal infections. Trani A, et al. **J Med Chem** 1997 Mar 14;40(6):967–71

In vitro growth–inhibitory activity of pneumocandins L–733,560 and L–743,872 against putatively amphotericin B– and fluconazole–resistant Candida isolates: influence of assay conditions. Nelson PW, et al. **J Med Vet Mycol** 1997 Jul–Aug;35(4):285–7

Inhibition and interaction of cytochrome P450 of Candida krusei with azole antifungal drugs. Venkateswarlu K, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):19–25

Antibiotic activity of strains of the genus Arthrinium on bacteria and yeasts. Larrondo J, et al. **Microbios** 1997; 89(360–361):163–70

Synergy of human neutrophils with fluconazole in killing Candida species. Brummer E, et al. **Mycopathologia** 1996; 134(3):115–20

Susceptibility testing of bacteria and fungi. Report from "the Norwegian Working Group on Antibiotics". Bergan T, et al. **Scand J Infect Dis Suppl** 1997;103:1–36

[Methods for the determination of the sensitivity of Candida strains to fluconazole: focus of a micromethod and correlation with 2 other techniques] Goutaland C, et al. **Pathol Biol (Paris)** 1996 Oct;44(8):724–8 (Eng. Abstr.) **(Fre)**

[Fluconazole and itraconazole susceptibility testing with clinical yeast isolates and algae of the genus Prototheca by means of the Etest] Blaschke–Hellmessen R. **Mycoses** 1996;39 Suppl 2:39–43 (Eng. Abstr.) **(Ger)**

[Comparison of three antifungal susceptibility testing methods for the in vitro testing of Candida isolates from patients with HIV infection] Ruhnke M, et al. **Mycoses** 1996;39 Suppl 2:47–50 (Eng. Abstr.) **(Ger)**

[Susceptibility testing of yeasts against fluconazole: comparison of the Etest method with microdilution and agar dilution] Schmalreck AF, et al. **Mycoses** 1996;39 Suppl 2:31–8 (Eng. Abstr.) **(Ger)**

[In vitro susceptibility testing of Candida species against fluconazole using the microdilution test with Alamar Blue] Schröder G, et al. **Mycoses** 1996;39 Suppl 2:17–21 (Eng. Abstr.) **(Ger)**

[Controversies in the standardization of susceptibility testing on yeasts to azole antimycotics] Tintelnot K, et al. **Mycoses** 1996;39 Suppl 2:22–6 (Eng. Abstr.) **(Ger)**

[Determination of in vitro synergy when amphotericin B is combined with various antimicrobial agents against yeasts by using a colorimetric microdilution checkerboard] Yamane N, et al. **Rinsho Byori** 1997 Jul;45(7):689–95 (Eng. Abstr.) **(Jpn)**

[Multisite evaluation of a colorimetric broth microdilution antifungal susceptibility testing] Yamane N, et al. **Rinsho Byori** 1997 Feb;45(2):190–9 (Eng. Abstr.) **(Jpn)**

[In vitro susceptibility to antifungal agents of Candida strains isolated from patients with various diseases of the respiratory tract] Batura–Gabryel H, et al. **Pneumonol Alergol Pol** 1997;65(5–6):355–9 (Eng. Abstr.) **(Pol)**

ENZYMOLOGY

Production, characterization, and molecular modeling of lipases for esterification. Jääskeläinen S, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:129–38

Substrate specificity and kinetics of Candida rugosa lipase in organic media. Janssen AE, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:257–61

Conformational changes of different isolipases from Candida rugosa in liquid interfaces and after their contact with low–water–content media. Otero C, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:324–7

The effect of water activity on modified lipase during esterification. Salleh AB, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:328–31

Enhancing the stereoselectivity and activity of Candida species lipase in organic solvent by noncovalent enzyme modification. Yang H, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:358–63

Changes in the starvation response through covalent cell attachment. Jirku V. **Antonie Van Leeuwenhoek** 1997 May; 71(4):369–73

Purification and properties of methyl formate synthase, a mitochondrial alcohol dehydrogenase, participating in formaldehyde oxidation in methylotrophic yeasts. Murdanoto AP, et al. **Appl Environ Microbiol** 1997 May; 63(5):1715–20

Isolation and characterization of novel long–chain acyl–CoA thioesterase/carboxylesterase isoenzymes from Candida rugosa. Diczfalusy MA, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):104–12

NAD(P)H–dependent aldose reductase from the xylose–assimilating yeast Candida tenuis. Isolation, characterization and biochemical properties of the enzyme. Neuhauser W, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):683–92

Comparative kinetic characterization of catalases from Candida boidinii yeast and bovine liver. Metelitza DI, et al. **Biochemistry (Mosc)** 1997 Apr;62(4):377–85

Probing the substrate specificity for lipases. II. Kinetic and modeling studies on the molecular recognition of 2–arylpropionic esters by Candida rugosa and Rhizomucor miehei lipases. Botta M, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):302–10

Immunoelectron microscopic observation of the behaviors of peroxisomal enzymes inducibly synthesized in an n–alkane–utilizable yeast cell, Candida tropicalis. Kamasawa N, et al. **Cell Struct Funct** 1996 Apr; 21(2):117–22

Oleyl oleate synthesis by immobilized lipase from Candida sp.1619. Zhang J, et al. **Chin J Biotechnol** 1995;11(4):243–51

Derepression of gene expression mediated by the 5' upstream region of the isocitrate lyase gene of Candida tropicalis is controlled by two distinct regulatory pathways in Saccharomyces cerevisiae. Umemura K, et al. **Eur J Biochem** 1997 Feb 1;243(3):748–52

Modification of amino groups in Candida utilis uricase with naphthoquinone disulfonic acid in relation to the enzymic activity. Yoshida K, et al. **FEBS Lett** 1981 Nov 2; 134(1):50–2

Induction of aldose reductase and xylitol dehydrogenase activities in Candida tenuis CBS 4435. Kern M, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):31–7

The glycolytic function of hexokinases is not required for catabolite repression in Candida utilis. Espinel AE, et al. **Folia Microbiol (Praha)** 1996;41(1):88–9

Aryl monooxygenase: a detoxifying enzyme from Candida pulcherrima MCMY2. Dey S. **Indian J Biochem Biophys** 1996 Dec;33(6):523–6

Individual expression of Candida tropicalis peroxisomal and mitochondrial carnitine acetyltransferase–encoding genes and subcellular localization of the products in Saccharomyces cerevisiae. Kawachi H, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):731–5

Cloning, sequence analysis, and expression in Escherichia coli of the gene encoding the Candida utilis urate oxidase (uricase). Koyama Y, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):969–73

Characterization of beta–1,2–mannosyltransferase in Candida guilliermondii and its utilization in the synthesis of novel oligosaccharides. Suzuki A, et al. **J Biol Chem** 1997 Jul 4;272(27):16822–8

In vitro proteinase and phospholipase activity and pathogenicity of Candida species. Mitrovic S, et al. **J Chemother** 1995 Nov;7 Suppl 4:43–5

New class of poly(vinyl alcohol) polymers as column–chromatography stationary phases for Candida rugosa lipase isoforms separation. Battinelli L, et al. **J Chromatogr A** 1996 Nov 8;753(1):47–55

Inhibition and interaction of cytochrome P450 of Candida krusei with azole antifungal drugs. Venkateswarlu K, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):19–25

Acid proteinase secreted by Candida tropicalis: functional analysis of preproregion cleavages in C. tropicalis and Saccharomyces cerevisiae. Togni G, et al. **Microbiology** 1996 Mar;142 (Pt 3):493–503

Studies on hyaluronidase, chondroitin sulphatase, proteinase and phospholipase secreted by Candida species. Shimizu MT, et al. **Mycoses** 1996 May–Jun;39(5–6):161–7

4 Pro–R hydrogen of NADPH was abstracted for enzymatic hydride transfer by N–ethylmaleimide–reductase of Yarrowia lipolytica. Mizugaki M, et al. **Tohoku J Exp Med** 1997 Apr;181(4):447–57

Seroreactivities of proteinases of Candida albicans, C. tropicalis, and C. parapsilosis in sera from various Candida species–infected mice. Lee KH, et al. **Yonsei Med J** 1997 Jun;38(3):178–86

GENETICS

Transcriptional regulation of peroxisomal glyoxylate cycle enzymes of an n–alkane–assimilating yeast, Candida tropicalis. Atomi H, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:684–6

Enhanced oxidative killing of azole–resistant Candida glabrata strains with ERG11 deletion. Kan VL, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1717–9

Characterization of the intron–containing citrate synthase gene from the alkanotrophic yeast Candida tropicalis: cloning and expression in Saccharomyces cerevisiae. Ueda M, et al. **Arch Microbiol** 1997 Jul;168(1):8–15

Analysis of carbon source–regulated gene expression by the upstream region of the Candida tropicalis malate synthase gene in Saccharomyces cerevisiae. Umemura K, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):80–8

Codon reassignment in Candida species: an evolutionary conundrum. Tuite MF, et al. **Biochimie** 1996; 78(11–12):993–9 (35 ref.)

A specialized nucleosome modulates transcription factor access to a C. glabrata metal responsive promoter. Zhu Z, et al. **Cell** 1996 Nov 1;87(3):459–70

Strain variation and antifungal susceptibility among bloodstream isolates of Candida species from 21 different medical institutions. Pfaller MA, et al. **Clin Infect Dis** 1995 Dec;21(6):1507–9

A novel repeat sequence (CKRS–1) containing a tandemly repeated sub–element (kre) accounts for differences between Candida krusei strains fingerprinted with the probe CkF1,2. Carlotti A, et al. **Curr Genet** 1997 Mar;31(3):255–63

Structural analysis of a Candida glabrata centromere and its functional homology to the Saccharomyces cerevisiae centromere. Kitada K, et al. **Curr Genet** 1997 Feb; 31(2):122–7

Expression and secretion of the Candida wickerhamii extracellular beta–glucosidase gene, bglB, in Saccharomyces cerevisiae. Skory CD, et al. **Curr Genet** 1996 Nov;30(5):417–22

Protein quality—a determinant of the intracellular fate of membrane–bound cytochromes P450 in yeast. Zimmer T, et al. **DNA Cell Biol** 1997 Apr;16(4):501–14

The 'polysemous' codon—a codon with multiple amino acid assignment caused by dual specificity of tRNA identity. Suzuki T, et al. **EMBO J** 1997 Mar 3;16(5):1122–34

Derepression of gene expression mediated by the 5' upstream region of the isocitrate lyase gene of Candida tropicalis is controlled by two distinct regulatory pathways in Saccharomyces cerevisiae. Umemura K, et al. **Eur J Biochem** 1997 Feb 1;243(3):748–52

Genetic speciation of Candida isolates by arbitrarily primed polymerase chain reaction. Liu D, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):23–6

A novel group I intron in Candida dubliniensis is homologous to a Candida albicans intron. Boucher H, et al. **Gene** 1996 Nov 21;180(1–2):189–96

Nucleotide sequence of the gene coding for SEC14p in Candida (torulopsis) glabrata. Dundon W, et al. **Gene** 1997 Jul 1;193(1):115–8

Isolation of a Candida glabrata centromere and its use in construction of plasmid vectors. Kitada K, et al. **Gene** 1996 Oct 10;175(1–2):105–8

Disruption of the SNF1 gene abolishes trehalose utilization in the pathogenic yeast Candida glabrata. Petter R, et al. **Infect Immun** 1996 Dec;64(12):5269–73

Evidence that part of a centromeric DNA region induces pseudohyphal growth in a dimorphic yeast, Candida maltosa. Nakazawa T, et al. **J Bacteriol** 1997 Aug; 179(16):5030–6

Regulation of the formate dehydrogenase gene, FDH1, in the methylotrophic yeast Candida boidinii and growth characteristics of an FDH1–disrupted strain on methanol, methylamine, and choline. Sakai Y, et al. **J Bacteriol** 1997 Jul;179(14):4480–5

Strain variation among and antifungal susceptibilities of isolates of Candida krusei. Berrouane YF, et al. **J Clin Microbiol** 1996 Jul;34(7):1856–8

Species–specific identification of Candida krusei by hybridization with the CkF1,2 DNA probe. Carlotti A, et al. **J Clin Microbiol** 1996 Jul;34(7):1726–31

Rapid identification and fingerprinting of Candida krusei by PCR–based amplification of the species–specific repetitive polymorphic sequence CKRS–1. Carlotti A, et al. **J Clin Microbiol** 1997 Jun;35(6):1337–43

Evaluation of pulsed–field gel electrophoresis as a typing system for Candida rugosa: comparison of karyotype and restriction fragment length polymorphisms. Dib JC, et al. **J Clin Microbiol** 1996 Jun;34(6):1494–6

Development of two species–specific fingerprinting probes for broad computer–assisted epidemiological studies of Candida tropicalis. Joly S, et al. **J Clin Microbiol** 1996 Dec; 34(12):3063–71

Identification of various medically important Candida species in clinical specimens by PCR–restriction enzyme analysis. Morace G, et al. **J Clin Microbiol** 1997 Mar;35(3):667–72

DNA fingerprinting of Candida rugosa via repetitive sequence–based PCR. Redkar RJ, et al. **J Clin Microbiol** 1996 Jul;34(7):1677–81

Correlation of SfiI macrorestriction endonuclease fingerprint analysis of Candida parapsilosis isolates with source of isolation. Pontieri E, et al. **J Med Microbiol** 1996 Sep;

45(3):173–8
Adenine auxotrophic heterozygosity in Candida krusei. Cao B, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):33–6
CUG codons in Candida spp.. Jukes TH, et al. **J Mol Evol** 1996 Feb;42(2):321–2
Specific detection of Candida albicans and Candida tropicalis by fluorescent in situ hybridization with an 18S rRNA–targeted oligonucleotide probe. Lischewski A, et al. **Microbiology** 1996 Oct;142 (Pt 10):2731–40
Cytochromes P450 of the sophorose lipid–producing yeast Candida apicola: heterogeneity and polymerase chain reaction–mediated cloning of two genes. Lottermoser K, et al. **Yeast** 1996 May;12(6):565–75
Galactose–inducible expression systems in Candida maltosa using promoters of newly–isolated GAL1 and GAL10 genes. Park SM, et al. **Yeast** 1997 Jan;13(1):21–9
CtCdc55p and CtHa13p: two putative regulatory proteins from Candida tropicalis with long acidic domains. Rodriguez PL, et al. **Yeast** 1996 Oct;12(13):1321–9
Seroreactivities of proteinases of Candida albicans, C. tropicalis, and C. parapsilosis in sera from various Candida species–infected mice. Lee KH, et al. **Yonsei Med J** 1997 Jun;38(3):178–86
[Phenotype and genotype analysis of Torulopsis glabrata isolated from nosocomial infections] Eloy O, et al. **Ann Biol Clin (Paris)** 1997 Jul–Aug;55(4):323–6 (Eng. Abstr.) **(Fre)**
[The cloning and expression of the beta–galactosidase gene of Candida pseudotropicalis yeasts in Escherichia coli cells] Tretiak KA, et al. **Mikrobiol Z** 1997 Jan–Feb;59(1):11–7 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Inhibitory effects of seven organosulphur compounds on clinical isolates of Candida species in vitro. Shah DT, et al. **Ann Clin Lab Sci** 1997 Jul–Aug;27(4):282–6
Isolation of Candida species on media with and without added fluconazole reveals high variability in relative growth susceptibility phenotypes. Schoofs A, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1625–35
Microbiostatic activity of human plasma and its relation to zinc and iron availability. Clohessy PA, et al. **Biochem Soc Trans** 1996 May;24(2):311S
Evaluation of growth characteristics on blood agar and eosin methylene blue agar for the identification of Candida (Torulopsis) glabrata. Bale MJ, et al. **Diagn Microbiol Infect Dis** 1997 Jun;28(2):65–7
A simple synthetic liquid medium for development of yeast and mycelial form of pathogenic species of Candida. Prakash P, et al. **Indian J Pathol Microbiol** 1997 Jan; 40(1):55–8
Growth of yeasts in milk and associated changes to milk composition. Roostita R, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):205–19
Comparison of the Petrifilm dry rehydratable film and conventional culture methods for enumeration of yeasts and molds in foods: collaborative study. Knight MT, et al. **J AOAC Int** 1997 Jul–Aug;80(4):806–23
Evidence that part of a centromeric DNA region induces pseudohyphal growth in a dimorphic yeast, Candida maltosa. Nakazawa T, et al. **J Bacteriol** 1997 Aug; 179(16):5030–6
Inhibition of growth of fungi pathogenic to man by Stenotrophomonas maltophilia. Kerr JR. **J Med Microbiol** 1996 Nov;45(5):380–2
Implantation of Candida albicans and other Candida species in the oral cavity of rats. Totti MA, et al. **J Oral Pathol Med** 1996 Jul;25(6):308–10
Upstream parameters affecting the cell growth and xylitol production by Candida guilliermondii FTI 20037. Silva SS, et al. **Z Naturforsch [C]** 1997 May–Jun;52(5–6):359–63

IMMUNOLOGY

Structure and antigenicity of the mannans of Candida famata and Candida saitoana: comparative study with the mannan of Candida guilliermondii. Shibata N, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):49–58
A new method of antibiotyping yeasts for subspecies discrimination and distribution in human clinical specimens. Quindós G, et al. **Eur J Epidemiol** 1996 Feb;12(1):55–62
Identification of the antigenic determinants of factors 8, 9, and 34 of genus Candida. Kobayashi H, et al. **FEBS Lett** 1996 Oct 21;395(2–3):109–12
Tumor necrosis factor (TNF) induction from monocyte/macrophages by Candida species. Aybay C, et al. **Immunobiology** 1996;196(4):363–74
Anti–candidial activity of natural killer (NK) and lymphokine activated killer (LAK) lymphocytes in vitro. Gülay Z, et al. **Immunobiology** 1996 Jul;195(2):220–30
Synergy of human neutrophils with fluconazole in killing Candida species. Brummer E, et al. **Mycopathologia** 1996; 134(3):115–20
[Case of allergic bronchopulmonary mycosis with positive result of intradermal candida test] Yuasa K. **Jpn J Antibiot** 1997 Jan;50(1):58–60; discussion 61, 75–6 **(Jpn)**

ISOLATION & PURIFICATION

Efficiency of PAPNET in detecting infectious organisms in cervicovaginal smears. Ashfaq R, et al. **Acta Cytol** 1996 Sep–Oct;40(5):885–8
Clinical review of nasal allergy due to fungus. Kim Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:105–7
Candidiasis: the emergence of a novel species, Candida dubliniensis [editorial] Coleman DC, et al. **AIDS** 1997 Apr; 11(5):557–67 (96 ref.)
Significance of the isolation of Candida species from respiratory samples in critically ill, non–neutropenic patients. An immediate postmortem histologic study. el–Ebiary M, et al. **Am J Respir Crit Care Med** 1997 Aug; 156(2 Pt 1):583–90
Anaerobes and fungi in chronic suppurative otitis media. Ibekwe AO, et al. **Ann Otol Rhinol Laryngol** 1997 Aug; 106(8):649–52
Bilateral Candida parapsilosis endophthalmitis. Wong VK, et al. **Arch Ophthalmol** 1997 May;115(5):670–2
A population–based study of salivary lysozyme concentrations and candidal counts. Yeh CK, et al. **Arch Oral Biol** 1997 Jan;42(1):25–31
Failure of systemic empirical treatment with amphotericin B to prevent candidemia in neutropenic patients with cancer. Blumberg EA, et al. **Clin Infect Dis** 1996 Mar; 22(3):462–6
Torulopsis (Candida) glabrata: a new pathogen found in spinal epidural abscess. Bonomo RA, et al. **Clin Infect Dis** 1996 Mar;22(3):588–9
Isolation of Candida norvegensis from clinical specimens: four case reports. Hood SV, et al. **Clin Infect Dis** 1996 Nov;23(5):1185–7
Evaluation of CHROMagar Candida medium for the isolation and presumptive identification of species of Candida of clinical importance. Bernal S, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):201–4
Mixed oropharyngeal candidiasis due to Candida albicans and non–albicans Candida strains in HIV–infected patients. Dronda F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun; 15(6):446–52
Use of specialised isolation media for recognition and identification of Candida dubliniensis isolates from HIV–infected patients. Schoofs A, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):296–300
Secular trends in the epidemiology of nosocomial fungal infections at a teaching hospital in Taiwan, 1981 to 1993. Chen YC, et al. **Infect Control Hosp Epidemiol** 1997 May; 18(5):369–75
Pathogens responsible for concurrent sinusitis and pneumonia in intensive care unit patients [letter] Bert F, et al. **Infection** 1996 Jan–Feb;24(1):52–3
Bacterial flora of the nasal cavity in laryngectomized patients. Cvetnić V, et al. **Infection** 1996 Jan–Feb;24(1):26–8
Fungal endocarditis––a report on seven cases and a brief review. Hogevik H, et al. **Infection** 1996 Jan–Feb; 24(1):17–21 (40 ref.)
Funguria in cancer patients: analysis of risk factors, clinical presentation and outcome in 50 patients. Oravcova E, et al. **Infection** 1996 Jul–Aug;24(4):319–23
Clinical isolates of Candida guilliermondii include Candida fermentati. San Millán RM, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):385–93
Techniques for investigation of an apparent outbreak of infections with Candida glabrata. Arif S, et al. **J Clin Microbiol** 1996 Sep;34(9):2205–9
Detection and identification of fungal pathogens in blood by using molecular probes. Einsele H, et al. **J Clin Microbiol** 1997 Jun;35(6):1353–60
Evaluation of latex reagents for rapid identification of Candida albicans and C. krusei colonies. Freydiere AM, et al. **J Clin Microbiol** 1997 Apr;35(4):877–80
Assessment of detection of Candida mannoproteinemia as a method to differentiate central venous catheter–related candidemia from invasive disease. Girmenia C, et al. **J Clin Microbiol** 1997 Apr;35(4):903–6
Frequency, intensity, species, and strains of oral Candida vary as a function of host age. Kleinegger CL, et al. **J Clin Microbiol** 1996 Sep;34(9):2246–54
Identification of various medically important Candida species in clinical specimens by PCR–restriction enzyme analysis. Morace G, et al. **J Clin Microbiol** 1997 Mar;35(3):667–72
Rapid identification of Candida species in blood cultures by a clinically useful PCR method. Shin JH, et al. **J Clin Microbiol** 1997 Jun;35(6):1454–9
Widespread geographic distribution of oral Candida dubliniensis strains in human immunodeficiency virus–infected individuals. Sullivan D, et al. **J Clin Microbiol** 1997 Apr;35(4):960–4
Rapid identification of Candida species by DNA fingerprinting with PCR. Thanos M, et al. **J Clin Microbiol** 1996 Mar;34(3):615–21
Use of CHROMagar Candida for genital specimens in the diagnostic laboratory. Houang ET, et al. **J Clin Pathol** 1997 Jul;50(7):563–5
Colonization and infection associated with Malassezia and Candida species in a neonatal unit. Shattuck KE, et al. **J Hosp Infect** 1996 Oct;34(2):123–9
Eight–year surveillance of non–albicans Candida spp. in an oncology department prior to and after fluconazole had been introduced into antifungal prophylaxis. Kunova A, et al. **Microb Drug Resist** 1997 Fall;3(3):283–7
Isolation of fungi from onychomycosis–suspected nails by two methods: clipping and drilling. Heikkilä H. **Mycoses** 1996 Nov–Dec;39(11–12):479–82
Retrospective analysis of yeast colonization and infections in paediatric bone marrow transplant recipients. Hoppe JE, et al. **Mycoses** 1997 Jan–Feb;40(1–2):47–54
Candida parapsilosis bloodstream infections in neonatal intensive care unit patients: epidemiologic and laboratory confirmation of a common source outbreak. Welbel SF, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):998–1002
Mycological aspects of gastrointestinal microflora. Bernhardt H, et al. **Scand J Gastroenterol Suppl** 1997;222:102–6
Neonatal Torulopsis glabrata fungemia. Reich JD, et al. **South Med J** 1997 Feb;90(2):246–8 (15 ref.)
[Candida in the ecological system of the orointestinal tract] Bernhardt H. **Mycoses** 1996;39 Suppl 1:44–7 (12 ref.) (Eng. Abstr.) **(Ger)**
[Itraconazole suspension in the treatment of HIV–infected patients with fluconazole–resistant oropharyngeal candidiasis and esophagitis] Eichel M, et al. **Mycoses** 1996; 39 Suppl 1:102–6 (Eng. Abstr.) **(Ger)**
[Mycophobia––a new disease?] Seebacher C. **Mycoses** 1996; 39 Suppl 1:30–2 (Eng. Abstr.) **(Ger)**
[Analysis of selected parameters of cell–mediated immune response in palatine tonsils in Candida invasions] Jaskółowska A. **Otolaryngol Pol** 1996;50(2):221–4 **(Pol)**
[Role of fungi belonging to the genus Candida in the etiology of nonspecific pulmonary diseases] Bahukova TA, et al. **Antibiot Khimioter** 1996 Jun;41(6):44–8 (Eng. Abstr.) **(Rus)**
[Disseminated candidiasis and endophthalmitis caused by Candida tropicalis (letter)] Gratacós J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):451 **(Spa)**
[Usefulness of fresh wet mount examination in the diagnosis of vaginal candidiasis] Casanova Roman G, et al. **Ginecol Obstet Mex** 1997 Mar;65:87–91 (Eng. Abstr.) **(Spa)**

METABOLISM

Reduced accumulation of drug in Candida krusei accounts for itraconazole resistance. Venkateswarlu K, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2443–6
Mechanism of glucose and maltose transport in plasma–membrane vesicles from the yeast Candida utilis. van den Broek PJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):487–95
Role of PM–ATPase, amino acid transport and free amino acid pool in the salt stress of, Candida membranefaciens [corrected and republished article originally printed in Biochem Mol Biol Int 1996 Mar;38(3): 635–43] Khaware RK, et al. **Biochem Mol Biol Int** 1996 May;39(2):421–9
Tryptanthrins: a novel class of agonists of the aryl hydrocarbon receptor. Schrenk D, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):165–71
Utilization of acetonitrile and other aliphatic nitriles by a Candida famata strain. Linardi VR, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):67–71
The glycolytic function of hexokinases is not required for catabolite repression in Candida utilis. Espinel AE, et al. **Folia Microbiol (Praha)** 1996;41(1):88–9
Catabolic activity, energy state and transport of organic acids in Candida utilis at different osmotic pressures. Páca J, et al. **Folia Microbiol (Praha)** 1996;41(1):118–9
A simple synthetic liquid medium for development of yeast and mycelial form of pathogenic species of Candida. Prakash P, et al. **Indian J Pathol Microbiol** 1997 Jan; 40(1):55–8
Enhanced excretion of intermediates of aromatic amino acid catabolism during chlorophenol degradation due to nutrient limitation in the yeast Candida maltosa. Hammer E, et al. **J Basic Microbiol** 1996;36(4):239–43
Identification of a putative mitochondrial telomere–binding protein of the yeast Candida parapsilosis. Tomáska L, et al. **J Biol Chem** 1997 Jan 31;272(5):3049–56
Reconstitution of lactate proton symport activity in plasma membrane vesicles from the yeast Candida utilis. Gerós H, et al. **Yeast** 1996 Sep 30;12(12):1263–72

PATHOGENICITY

Candida adherence to human epithelial cells with regard to its pathogenicity. Mitrovic S, et al. **J Chemother** 1995 Nov; 7 Suppl 4:18–20
Studies on hyaluronidase, chondroitin sulphatase, proteinase and phospholipase secreted by Candida species. Shimizu MT, et al. **Mycoses** 1996 May–Jun;39(5–6):161–7
[Effectiveness of medical treatment of endocarditis due to Candida in premature newborns] García Cantó E, et al. **An Esp Pediatr** 1997 Mar;46(3):277–9 **(Spa)**

PHYSIOLOGY

Risk factors for colonization of salivary lactobacilli and Candida in children. Ollila P, et al. **Acta Odontol Scand** 1997 Jan;55(1):9–13
Experimental evidences for a role of subinhibitory concentrations of rilopirox, nystatin and fluconazole on adherence of Candida spp. to vaginal epithelial cells. Braga PC, et al. **Chemotherapy** 1996 Jul–Aug;42(4):259–65
Stress proteins and stress tolerance in an Antarctic, psychrophilic yeast, Candida psychrophila. Deegenaars ML, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):191–6
Antifungal susceptibility pattern of non–albicans Candida species & distribution of species isolated from Candidaemia cases over a 5 year period. Chakrabarti A, et al. **Indian J Med Res** 1996 Aug;104:171–6
The effect of oral commensal bacteria on candidal adhesion

to human buccal epithelial cells in vitro. Nair RG, et al. **J Med Microbiol** 1996 Sep;45(3):179–85

Adhesion of different Candida spp. to plastic: XTT formazan determinations. Hawser S. **J Med Vet Mycol** 1996 Nov–Dec;34(6):407–10

Comparative physiology of salt tolerance in Candida tropicalis and Saccharomyces cerevisiae. García MJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1125–31

Adhesion of yeast isolated from fish gut to crude intestinal mucus of rainbow trout, Salmo gairdneri. Vázquez-Juárez R, et al. **Mol Mar Biol Biotechnol** 1997 Mar;6(1):64–71

RADIATION EFFECTS

The role of membrane-bound porphyrin-type compound as endogenous sensitizer in photodynamic damage to yeast plasma membranes. Fraikin GYa, et al. **J Photochem Photobiol B** 1996 Jul;34(2–3):129–35

ULTRASTRUCTURE

Immunoelectron microscopic observation of the behaviors of peroxisomal enzymes inducibly synthesized in an n-alkane-utilizable yeast cell, Candida tropicalis. Kamasawa N, et al. **Cell Struct Funct** 1996 Apr; 21(2):117–22

CANDIDA ALBICANS

Ingestion of yogurt containing Lactobacillus acidophilus compared with pasteurized yogurt as prophylaxis for recurrent candidal vaginitis and bacterial vaginosis. Shalev E, et al. **Arch Fam Med** 1996 Nov–Dec;5(10):593–6

Clearances of Candida albicans-derived alpha- and beta-linked mannose residues in sera from patients with candidiasis. Poulain D, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):16–20

Transfer of a gene encoding the anticandidal protein histatin 3 to salivary glands. O'Connell BC, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2255–61

Intravenous injection of Candida-derived mannan results in elevated tumor necrosis factor alpha levels in serum. Garner RE, et al. **Infect Immun** 1996 Nov;64(11):4561–6

Interaction of Candida albicans, macrophages and fluconazole: in vitro and ex vivo observations. Tullio V, et al. **J Chemother** 1996 Dec;8(6):438–44

Candida albicans stress mannoprotein, SMP200, enhances tumour necrosis factor secretion in the murine macrophage cell line ANA-1. Pitzurra L, et al. **J Med Vet Mycol** 1996 Jun–Jul;34(3):219–22

Candida albicans arthritis one year after successful treatment of fungemia in a healthy infant. Swanson H, et al. **J Pediatr** 1996 Nov;129(5):688–94 (37 ref.)

Infection of a pancreatic pseudocyst due to Candida albicans. Foust RT. **South Med J** 1996 Nov;89(11):1104–7

Macrophage inhibitory factor-A3 derived from Mycobacterium avium serovar 2 inhibits candidacidal activity of murine peritoneal macrophages. Hines ME 2nd, et al. **Vet Microbiol** 1996 Dec;53(3–4):295–302

[Acute heart failure in a patient with a metal mitral prosthesis] Alvarez Blanco P, et al. **Rev Clin Esp** 1996 Jul; 196(7):469–70 **(Spa)**

CHEMISTRY

Study of supramolecular structures released from the cell wall of Candida albicans by ethylenediamine treatment. Mormeneo S, et al. **Arch Microbiol** 1996 Nov;166(5):327–35

Ultrastructural and biochemical studies on Candida albicans after prolonged incubation in sea water. Gorga F, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):167–72

Amended structure of side chains in a cell wall mannan from Candida albicans serotype A strain grown in yeast extract-Sabouraud liquid medium under acidic conditions: detection of the branched side chains corresponding to antigenic factor 4. Kobayashi H, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):235–42

Comparison between Wako-WB003 and Fungitec G tests for detection of (1-->3)-beta-D-glucan in systemic mycosis. Hossain MA, et al. **J Clin Lab Anal** 1997; 11(2):73–7

Soluble (1-->3)-beta-D-glucan purified from Candida albicans: biologic effects and distribution in blood and organs in rabbits. Yoshida M, et al. **J Lab Clin Med** 1996 Jul;128(1):103–14

Common and form-specific cell wall antigens of Candida albicans as released by chemical and enzymatic treatments. López-Ribot JL, et al. **Mycopathologia** 1996;134(1):13–20

Complex interaction between different proteinaceous components within the cell-wall structure of Candida albicans. Lopez-Ribot JL, et al. **Mycopathologia** 1995 Nov; 132(2):87–93

Expression of a reporter gene interrupted by the Candida albicans group I intron is inhibited by base analogs. Mercure S, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):431–7

[Preparation of beta-1,3-glucan synthase and its application to the screening of antifungal antibiotics] Zheng D, et al. **Wei Sheng Wu Hsueh Pao** 1996 Feb;36(1):73–5 (Eng. Abstr.) **(Chi)**

CLASSIFICATION

Biotypes of oral Candida albicans isolates in a Tanzanian child population. Matee MI, et al. **APMIS** 1996 Sep; 104(9):623–8

Use of polymorphic short and clustered coding-region microsatellites to distinguish strains of Candida albicans. Field D, et al. **FEMS Immunol Med Microbiol** 1996 Sep; 15(2–3):73–9

Microsatellite polymorphism in the promoter sequence of the elongation factor 3 gene of Candida albicans as the basis for a typing system. Bretagne S, et al. **J Clin Microbiol** 1997 Jul;35(7):1777–80

Comparison of the MUREX C. albicans, Albicans-Sure, and BactiCard Candida test kits with the germ tube test for presumptive identification of Candida albicans. Crist AE Jr, et al. **J Clin Microbiol** 1996 Oct;34(10):2616–8

Candida albicans serotype analysis by flow cytometry. Mercure S, et al. **J Clin Microbiol** 1996 Sep;34(9):2106–12

Parity among the randomly amplified polymorphic DNA method, multilocus enzyme electrophoresis, and Southern blot hybridization with the moderately repetitive DNA probe Ca3 for fingerprinting Candida albicans. Pujol C, et al. **J Clin Microbiol** 1997 Sep;35(9):2348–58

Rapid susceptibility testing of fungi by flow cytometry using vital staining. Wenisch C, et al. **J Clin Microbiol** 1997 Jan; 35(1):5–10

Atypical strains of Candida albicans recovered from AIDS patients. Pujol C, et al. **J Med Vet Mycol** 1997 Mar–Apr; 35(2):115–21

Candida biotypes in patients with oral leukoplakia and lichen planus. Candida biotypes in leukoplakia and lichen planus. Lipperheide V, et al. **Mycopathologia** 1996;134(2):75–82

Increased prevalence of oral Candida albicans serotype B in homosexual men: a comparative and longitudinal study in HIV-infected and HIV-negative patients. Torssander J, et al. **Mycoses** 1996 Sep–Oct;39(9–10):353–6

Are Candida albicans natural populations subdivided? Tibayrenc M. **Trends Microbiol** 1997 Jul;5(7):253–4; discussion 254–7

[The possibilities for using combined methods in typing Candida albicans for establishing epidemiological relationships] Degteva GK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb; (1):27–30 (Eng. Abstr.) **(Rus)**

CYTOLOGY

UCSF gene discover opens new window on mechanism of yeast infection [news] **Compr Ther** 1997 Sep;23(9):621–2

Analysis of the cell cycle in the budding yeast Candida albicans by positioning of chromosomes by fluorescence in situ hybridization (FISH) with repetitive sequences. Chibana H, et al. **Genes Cells** 1996 Aug;1(8):727–40

Candida albicans adherence to a human oesophageal cell line. Enache E, et al. **Microbiology** 1996 Oct;142 (Pt 10):2741–6

A human in vitro granuloma model using heat killed Candida albicans cells immobilized on plastic culture wells. Heinemann DE, et al. **Scand J Immunol** 1997 Jun; 45(6):596–604

Control of filament formation in Candida albicans by the transcriptional repressor TUP1 [see comments] Braun BR, et al. **Science** 1997 Jul 4;277(5322):105–9. Comment in: Science 1997 Jul 4;277(5322):52–3.

Which came first, the hypha or the yeast? [comment] Magee PT. **Science** 1997 Jul 4;277(5322):52–3. Comment on: Science 1997 Jul 4;277(5322):105–9.

DRUG EFFECTS

Multiple drug resistance in Candida albicans. Prasad R, et al. **Acta Biochim Pol** 1995;42(4):497–504 (44 ref.)

DNA topoisomerase inhibitors as antifungal agents. Shen LL, et al. **Adv Pharmacol** 1994;29B:227–44 (45 ref.)

Oral transmission of Candida albicans between partners in HIV-infected couples could contribute to dissemination of fluconazole-resistant isolates. Dromer F, et al. **AIDS** 1997 Jul 15;11(9):1095–101

Relationship between fluconazole dosage regimens and the emergence of fluconazole-resistant Candida albicans. Goetz MB. **AIDS** 1996 Mar;10(3):335–6

Oropharyngeal yeast flora and fluconazole resistance in HIV-infected patients receiving long-term continuous versus intermittent fluconazole therapy. Heald AE, et al. **AIDS** 1996 Mar;10(3):263–8

Antifungal activity of plant extracts against Candida albicans. Perez C, et al. **Am J Chin Med** 1997;25(2):181–4

The effect of estradiol on Candida albicans growth. Gujjar PR, et al. **Ann Clin Lab Sci** 1997 Mar–Apr;27(2):151–6

Inhibitory effects of seven organosulphur compounds on clinical isolates of Candida species in vitro. Shah DT, et al. **Ann Clin Lab Sci** 1997 Jul–Aug;27(4):282–6

Submicellar complexes may initiate the fungicidal effects of cationic amphiphilic compounds on Candida albicans. Ahlström B, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):544–50

Microdilution antifungal susceptibility testing of Candida albicans and Cryptococcus neoformans with and without agitation: an eight-center collaborative study. Anaissie EJ, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2387–91

Variation in fluconazole efficacy for Candida albicans strains sequentially isolated from oral cavities of patients with AIDS in an experimental murine candidiasis model. Barchiesi F, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1317–20

In vitro activities of terbinafine in combination with fluconazole and itraconazole against isolates of Candida albicans with reduced susceptibility to azoles. Barchiesi F, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1812–4

Reversible fluconazole resistance in Candida albicans: a potential in vitro model. Calvet HM, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):535–9

New model of oropharyngeal and gastrointestinal colonization by Candida albicans in CD4+ T-cell-deficient mice for evaluation of antifungal agents. Flattery AM, et al. **Antimicrob Agents Chemother** 1996 Jul; 40(7):1604–9

Antifungal pharmacodynamic characteristics of fluconazole and amphotericin B tested against Candida albicans. Klepser ME, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1392–5

Response to fluconazole by 23 patients with human immunodeficiency virus infection and oral candidiasis: pharmacological and mycological factors. Lacassin F, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1961–3

In vitro activities of semisynthetic pneumocandin L-733,560 against fluconazole-resistant and -susceptible Candida albicans isolates. Martinez-Suarez JV, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1277–9

Effect of granulocyte colony-stimulating factor on the candidacidal activity of polymorphonuclear neutrophils and their collaboration with fluconazole. Natarajan U, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1575–8

Isolation and characterization of fluconazole- and amphotericin B-resistant Candida albicans from blood of two patients with leukemia. Nolte FS, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):196–9

Comparison of a spectrophotometric microdilution method with RPMI-2% glucose with the National Committee for Clinical Laboratory Standards reference macrodilution method M27-P for in vitro susceptibility testing of amphotericin B, flucytosine, and fluconazole against Candida albicans. Rodríguez-Tudela JL, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):1998–2003

In vitro activities of voriconazole (UK-109,496) against fluconazole-susceptible and -resistant Candida albicans isolates from oral cavities of patients with human immunodeficiency virus infection. Ruhnke M, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):575–7

Effects of cyclophosphamide and ceftriaxone on gastrointestinal colonization of mice by Candida albicans. Samonis G, et al. **Antimicrob Agents Chemother** 1996 Sep; 40(9):2221–3

Susceptibilities of Candida albicans multidrug transporter mutants to various antifungal agents and other metabolic inhibitors. Sanglard D, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2300–5

Effect of fluconazole on viability of Candida albicans over extended periods of time. Sohnle PG, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2622–5

Comparative resistance of Candida albicans clinical isolates to fluconazole and itraconazole in vitro and in vivo in a murine model. Valentin A, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1342–5

In vitro interaction between amphotericin B and azoles in Candida albicans. Vazquez JA, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2511–6

Comparison of D0870, a new triazole antifungal agent, to fluconazole for inhibition of Candida albicans cytochrome P-450 by using in vitro assays. Venkateswarlu K, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1382–6

Evaluation of renal toxicity and antifungal activity of free and liposomal amphotericin B following a single intravenous dose to diabetic rats with systemic candidiasis. Wasan KM, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1806–10

The presence of an R467K amino acid substitution and loss of allelic variation correlate with an azole-resistant lanosterol 14alpha demethylase in Candida albicans. White TC. **Antimicrob Agents Chemother** 1997 Jul;41(7):1488–94

Effect of nonylphenol on growth of Neurospora crassa and Candida albicans. Karley AJ, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1312–7

Effect of d-fenfluramine on the local immune response to the opportunistic microbial pathogen Candida albicans. Mathews HL, et al. **Behav Brain Res** 1996;73(1–2):369–74

The mechanism of calprotectin's candidastatic activity appears to involve zinc chelation. Clohessy PA, et al. **Biochem Soc Trans** 1996 May;24(2):309S

Selective peptidic and peptidomimetic inhibitors of Candida albicans myristoylCoA: protein N-myristoyltransferase: a new approach to antifungal therapy. Sikorski JA, et al. **Biopolymers** 1997;43(1):43–71 (58 ref.)

Characterization of a lipopeptide-resistant strain of Candida albicans. Frost DJ, et al. **Can J Microbiol** 1997 Feb; 43(2):122–8

Reassessment of the effect of glucagon and nucleotides on Candida albicans germ tube formation. Zelada A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):567–76

Optically active antifungal azoles. VI. Synthesis and antifungal activity of N-[(1R,2R)-2-(2,4-difluorophenyl)-2-hydroxy-1-methyl-3-(1H-1,2,4-triazo l-1- yl)propyl]-N'-(4-substituted phenyl)-3(2H,4H)-1,2,4-triazolones and 5(1H,4H)-tetrazolones. Kitazaki T, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):314–27

Antifungal and immunoadjuvant properties of fluconazole in mice immunosuppressed with morphine. Di Francesco

P, et al. **Chemotherapy** 1997 May-Jun;43(3):198-203
Influence of human serum on the postantifungal effect of four antifungal agents on Candida albicans. Mínguez F, et al. **Chemotherapy** 1996 Jul-Aug;42(4):273-9
Effects of systemic fluconazole therapy on in vitro adhesion of Candida albicans to buccal epithelial cells and changes of the cell surface proteins of the epithelial cells. Wu S, et al. **Chin Med Sci J** 1996 Mar;11(1):45-8
Patterns of fluconazole susceptibility in isolates from human immunodeficiency virus-infected patients with oropharyngeal candidiasis due to Candida albicans. Laguna F, et al. **Clin Infect Dis** 1997 Feb;24(2):124-30
EEC/COLIPA in vitro photoirritancy program: results of the first stage of validation. Spielmann H, et al. **Curr Probl Dermatol** 1995;23:256-64 (9 ref.)
Effect of Lamisil and azole antifungals in experimental nail infection. Richardson MD. **Dermatology** 1997;194 Suppl 1:27-31
Evaluation of the E test for fluconazole susceptibility testing of Candida albicans isolates from oropharyngeal candidiasis. Dannaoui E, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):228-32
Variable antifungal susceptibility of wild-type Candida albicans phenotypes from neutropenic hosts. Velegraki A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov; 15(11):854-60
Resistance to fluconazole and cross-resistance to amphotericin B in Candida albicans from AIDS patients caused by defective sterol delta5,6-desaturation. Kelly SL, et al. **FEBS Lett** 1997 Jan 2;400(1):80-2
Augmented inhibition of growth of Candida albicans by neutrophils in the presence of lactoferrin. Okutomi T, et al. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):105-12
Reduced intracellular accumulation of azole antifungal results in resistance in Candida albicans isolate NCPF 3363. Lamb DC, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):189-93
Differential inhibition of Candida albicans CYP51 with azole antifungal stereoisomers. Lamb DC, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):25-30
Molecular analysis of cyp51 from fluconazole-resistant Candida albicans strains. Löffler J, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):263-8
Candidacidal activity of human salivary histatin recombinant variants produced by site-directed mutagenesis. Driscoll J, et al. **Gene** 1996 Oct 24;177(1-2):29-34
Changes in the cellular composition of Candida albicans resistant to miconazole. Sharma S, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):420-4
The effect of areca nut on salivary and selected oral microorganisms. de Miranda CM, et al. **Int Dent J** 1996 Aug;46(4):350-6
The effect of chitinase inhibitors, cyclo(Arg-Pro) against cell separation of Saccharomyces cerevisiae and the morphological change of Candida albicans. Izumida H, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):829-31
Antifungal antibiotic benanomicin A increases susceptibility of Candida albicans to phagocytosis by murine macrophages. Watabe H, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1221-5
Anti-candidal activity of mupirocin-evidence for uptake via an amino acid transport system [letter] De Wet PM, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1107-8
In-vitro activity of purpuromycin and MDL 63,604 against microorganisms that cause vaginitis and vaginosis. Goldstein BP, et al. **J Antimicrob Chemother** 1995 Dec; 36(6):1061-5
The effects of antifungal agents on the morphogenetic transformation by Candida albicans in vitro. Hawser S, et al. **J Antimicrob Chemother** 1996 Oct;38(4):579-87
Spectrophotometric determination of the morphogenetic transformation by synchronous Candida albicans: effects of antifungal agents. Hawser S, et al. **J Antimicrob Chemother** 1996 Jul;38(1):67-73
ZD0870 treatment of murine candidiasis caused by fluconazole resistant isolates of Candida albicans. Najvar LK, et al. **J Antimicrob Chemother** 1996 Oct;38(4):671-7
In-vitro and in-vivo evaluation of a new amphotericin B emulsion-based delivery system. Tabosa Do Egito ES, et al. **J Antimicrob Chemother** 1996 Sep;38(3):485-97
Interactions of liposomal amphotericin B with extracellular and intracellular Candida albicans. van Etten EW, et al. **J Antimicrob Chemother** 1995 Dec;36(6):961-74
Novel antifungal agents which inhibit lanosterol 14alpha-demethylase in Candida albicans CCH442. Zakula D, et al. **J Antimicrob Chemother** 1997 Feb;39(2):261-4
Susceptibility of Candida albicans pretreated with ketoconazole and 5-fluorocytosine to fungicidal activity of leukocytes and serum. Chiu ML, et al. **J Chemother** 1995 Nov;7 Suppl 4:21-2
Influence of human serum on the postantifungal effect induced by therapeutic concentrations of ketoconazole and 5-fluorocytosine. Lima JE, et al. **J Chemother** 1995 Nov; 7 Suppl 4:38-9
In vitro inhibitory activity of citreoviridin against HIV-1 and an HIV-associated opportunist: Candida albicans. Vieta I, et al. **J Chemother** 1996 Oct;8(5):351-7
Genetic dissimilarity of two fluconazole-resistant Candida albicans strains causing meningitis and oral candidiasis in the same AIDS patient. Berenguer J, et al. **J Clin Microbiol** 1996 Jun;34(6):1542-5
Rapid susceptibility testing of Candida albicans by flow cytometry. Kirk SM, et al. **J Clin Microbiol** 1997 Feb; 35(2):358-63
Comparative evaluation of macrodilution and chromogenic agar screening for determining fluconazole susceptibility of Candida albicans. Patterson TF, et al. **J Clin Microbiol** 1996 Dec;34(12):3237-9
Rapid flow cytometric susceptibility testing of Candida albicans. Ramani R, et al. **J Clin Microbiol** 1997 Sep; 35(9):2320-4
Comparative evaluation of three antifungal susceptibility test methods for Candida albicans isolates and correlation with response to fluconazole therapy. Ruhnke M, et al. **J Clin Microbiol** 1996 Dec;34(12):3208-11
Effects of incubation time and buffer concentration on in vitro activities of antifungal agents against Candida albicans. Tornatore MA, et al. **J Clin Microbiol** 1997 Jun; 35(6):1473-6
Preliminary antimicrobial screening of four South African Asteraceae species. Salie F, et al. **J Ethnopharmacol** 1996 May;52(1):27-33
Anticandidal activity of Santolina chamaecyparissus volatile oil. Suresh B, et al. **J Ethnopharmacol** 1997 Jan;55(2):151-9
Identification of an amphotericin B resistant strain of Candida albicans using a rapid 3H-glucose incorporation microassay. Sweeney JF, et al. **J Infect** 1996 Nov; 33(3):221-6
Role of extended culture time on synergy of fluconazole and human monocyte-derived macrophages in clearing Candida albicans. Gujral S, et al. **J Infect Dis** 1996 Oct; 174(4):888-90
Role of macrophages in the candidacidal activity of liposomal amphotericin B. Mehta RT, et al. **J Infect Dis** 1997 Jan; 175(1):214-7
Antileukoprotease: an endogenous protein in the innate mucosal defense against fungi. Tomee JF, et al. **J Infect Dis** 1997 Sep;176(3):740-7
Fluconazole therapy of oropharyngeal candidiasis in a patient with multiple endocrine failure does not correlate with Candida albicans susceptibility to fluconazole in vitro. Field EA, et al. **J Med Vet Mycol** 1996 Jun-Jul;34(3):205-8
Role of antifungal drug resistance in the pathogenesis of recurrent vulvovaginal candidiasis. Lynch ME, et al. **J Med Vet Mycol** 1996 Sep-Oct;34(5):337-9
The in vitro adhesion of Candida albicans to buccal epithelial cells (BEC) from diabetic and non-diabetic individuals after in vivo and in vitro application of nystatin. Darwazeh AM, et al. **J Oral Pathol Med** 1997 May;26(5):233-6
Antifungal effect of zeolite-incorporated tissue conditioner against Candida albicans growth and/or acid production. Nikawa H, et al. **J Oral Rehabil** 1997 May;24(5):350-7
Antimicrobial activity of electrochemical silver ions in nonionic surfactant solutions and in model dispersions. Scalzo M, et al. **J Pharm Pharmacol** 1996 Jan;48(1):60-3
Resistance to fluconazole and amphotericin in Candida albicans from AIDS patients [letter] Kelly SL, et al. **Lancet** 1996 Nov 30;348(9040):1523-4
Cooperative anti-Candida effects of lactoferrin or its peptides in combination with azole antifungal agents. Wakabayashi H, et al. **Microbiol Immunol** 1996;40(11):821-5
In vitro activity of fluconazole on Candida albicans. Abecia LC, et al. **Microbiologia** 1996 Dec;12(4):613-20
N-myristoylation of Arf proteins in Candida albicans: an in vivo assay for evaluating antifungal inhibitors of myristoyl-CoA: protein N-myristoyltransferase. Lodge JK, et al. **Microbiology** 1997 Feb;143 (Pt 2):357-66
A disc plate assay for characterization of the effect of interaction between polyenes and azoles on growth of Candida albicans CA12. Cao B, et al. **Microbios** 1996; 87(352):161-7
Killer factor interference in mixed opportunistic yeast cultures. Conti S, et al. **Mycopathologia** 1996;135(1):1-8
Inhibition of yeast-to-mycelium conversion of Candida albicans by conjugated styryl ketones. Manavathu E, et al. **Mycopathologia** 1996;135(2):79-83
Adhesion of Candida albicans to epithelial cells—effect of nikkomycin. Segal E, et al. **Mycoses** 1997 Jan-Feb; 40(1-2):33-9
Use of a microtiter plate assay to detect the rate of killing of adherent Candida albicans by antifungal agents. Hamers AD, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):44-9
Postantifungal effect and effects of low concentrations of amphotericin B and fluconazole on previously treated Candida albicans. Mínguez F, et al. **Scand J Infect Dis** 1996; 28(5):503-6
[The comparative characteristics of the effect of immunomodulators on the indices of body nonspecific protection and on the structure of the populations of the causative agents in mixed infections] Shatalova EV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan-Feb;(1):54-8 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Targeting the fungal plasma membrane proton pump. Monk BC, et al. **Acta Biochim Pol** 1995;42(4):481-96
Allergenicity of acid protease secreted by Candida albicans. Akiyama K, et al. **Allergy** 1996 Dec;51(12):887-92
Purification and characterization of protein kinase CK2 from Candida albicans: evidence for the presence of two distinct regulatory subunits beta and beta'. Walz K, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):347-54
Molecular cloning and expression of the Candida albicans TOP2 gene allows study of fungal DNA topoisomerase II inhibitors in yeast. Keller BA, et al. **Biochem J** 1997 May 15;324 (Pt 1):329-39
D-arabinose dehydrogenase and biosynthesis of erythroascorbic acid in Candida albicans. Kim ST, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):1-8
Functional complementation between transmembrane loops of Saccharomyces cerevisiae and Candida albicans plasma membrane H(+)-ATPases. Mason AB, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):181-90
Virulence and hyphal formation of Candida albicans require the Ste20p-like protein kinase CaCla4p. Leberer E, et al. **Curr Biol** 1997 Aug 1;7(8):539-46
Identification of an Fe(III)-dihydroxyphenylalanine site in recombinant phosphomannose isomerase from Candida albicans. Smith JJ, et al. **Eur J Biochem** 1997 Mar 1; 244(2):325-33
Characterization of alpha-1,6-mannosyltransferase responsible for the synthesis of branched side chains in Candida albicans mannan. Suzuki A, et al. **Eur J Biochem** 1996 Aug 15;240(1):37-44
Biogenesis of Candida albicans Can1 permease expressed in Saccharomyces cerevisiae. Matijèková A, et al. **FEBS Lett** 1997 May 12;408(1):89-93
Comparison of responses of DNA topoisomerase I from Candida albicans and human cells to four new agents which stimulate topoisomerase-dependent DNA nicking. Fostel J, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):105-11
Partial purification of (1,3)-beta-glucan synthase from Candida albicans. Frost D, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):255-61
Simultaneous carriage of Candida albicans strains from HIV-infected patients with oral candidiasis: multilocus enzyme electrophoresis analysis. Reynes J, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):269-73
Identification of the gene encoding DNA topoisomerase I from Candida albicans. Taylor A, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):113-21
Cloning and expression of squalene epoxidase from the pathogenic yeast Candida albicans. Favre B, et al. **Gene** 1997 Apr 11;189(1):119-26
A novel MAP-kinase kinase from Candida albicans. Singh P, et al. **Gene** 1997 Apr 29;190(1):99-104
Evidence for degradation of gastrointestinal mucin by Candida albicans secretory aspartyl proteinase. Colina AR, et al. **Infect Immun** 1996 Nov;64(11):4514-9
The glycolytic enzyme glyceraldehyde-3-phosphate dehydrogenase of Candida albicans is a surface antigen. Gil-Navarro I, et al. **J Bacteriol** 1997 Aug;179(16):4992-9
Cloning of the Candida albicans homolog of Saccharomyces cerevisiae GSC1/FKS1 and its involvement in beta-1,3-glucan synthesis. Mio T, et al. **J Bacteriol** 1997 Jul;179(13):4096-105
The mutation T315A in Candida albicans sterol 14alpha-demethylase causes reduced enzyme activity and fluconazole resistance through reduced affinity. Lamb DC, et al. **J Biol Chem** 1997 Feb 28;272(9):5682-8
Identification of Glu-330 as the catalytic nucleophile of Candida albicans exo-beta-(1,3)-glucanase. Mackenzie LF, et al. **J Biol Chem** 1997 Feb 7;272(6):3161-7
Scanning alanine mutagenesis and de-peptidization of a Candida albicans myristoyl-CoA:protein N-myristoyltransferase octapeptide substrate reveals three elements critical for molecular recognition. McWherter CA, et al. **J Biol Chem** 1997 May 2;272(18):11874-80
Comparison of rapid testing methods for enzyme production with the germ tube method for presumptive identification of Candida albicans. Heelan JS, et al. **J Clin Microbiol** 1996 Nov;34(11):2847-9
Design and synthesis of novel imidazole-substituted dipeptide amides as potent and selective inhibitors of Candida albicans myristoylCoA:protein N-myristoyltransferase and identification of related tripeptide inhibitors with mechanism-based antifungal activity. Devadas B, et al. **J Med Chem** 1997 Aug 1;40(16):2609-25
Conformationally constrained [p-(omega-aminoalkyl)phenacetyl]-L-seryl-L-lysyl dipeptide amides as potent peptidomimetic inhibitors of Candida albicans and human myristoyl-CoA:protein N-myristoyl transferase. Nagarajan SR, et al. **J Med Chem** 1997 May 9;40(10):1422-38
Development of a method to detect secretory mucinolytic activity from Candida albicans. Colina AR, et al. **J Med Vet Mycol** 1996 Nov-Dec;34(6):401-6
Functional reconstitution of a purified proline permease from Candida albicans: interaction with the antifungal cispentacin. Jethwaney D, et al. **Microbiology** 1997 Feb;143 (Pt 2):397-404
Candida albicans has a cell-associated ferric-reductase activity which is regulated in response to levels of iron and copper. Morrissey JA, et al. **Microbiology** 1996 Mar; 142 (Pt 3):485-92
Analysis of secreted aspartic proteinases from Candida albicans: purification and characterization of individual Sap1, Sap2 and Sap3 isoenzymes. Smolenski G, et al. **Microbiology** 1997 Feb;143 (Pt 2):349-56
Detection of extracellular phospholipase activity in Candida albicans and Rhodotorula rubra. Mayser P, et al. **Mycopathologia** 1996;135(3):149-55
Fluorometric determination of acid proteinase activity in vulvovaginal candidosis. Kiliç N, et al. **Mycoses** 1996 Sep-Oct;39(9-10):347-51

Evidence for arylamine N-acetyltransferase activity in the fungi Candida albicans. Fang SH, et al. **Toxicol Lett** 1997 Jul 21;92(2):109–16

The Candida albicans PKC1 gene encodes a protein kinase C homolog necessary for cellular integrity but not dimorphism. Paravicini G, et al. **Yeast** 1996 Jun 30; 12(8):741–56

GENETICS

Molecular epidemiology of mucosal candidiasis in HIV-positive women. Dahl KM, et al.
AIDS Res Hum Retroviruses 1997 Apr 10;13(6):485–91

Multiple efflux mechanisms are involved in Candida albicans fluconazole resistance. Albertson GD, et al.
Antimicrob Agents Chemother 1996 Dec;40(12):2835–41

Susceptibilities of Candida albicans multidrug transporter mutants to various antifungal agents and other metabolic inhibitors. Sanglard D, et al.
Antimicrob Agents Chemother 1996 Oct;40(10):2300–5

Increased mRNA levels of ERG16, CDR, and MDR1 correlate with increases in azole resistance in Candida albicans isolates from a patient infected with human immunodeficiency virus. White TC.
Antimicrob Agents Chemother 1997 Jul;41(7):1482–7

Characterization of a lipopeptide-resistant strain of Candida albicans. Frost DJ, et al. **Can J Microbiol** 1997 Feb; 43(2):122–8

Nonfilamentous C. albicans mutants are avirulent. Lo HJ, et al. **Cell** 1997 Sep 5;90(5):939–49

UCSF gene discover opens new window on mechanism of yeast infection [news] **Compr Ther** 1997 Sep;23(9):621–2

Characterization of the Saccharomyces cerevisiae FCY1 gene encoding cytosine deaminase and its homologue FCA1 of Candida albicans. Erbs P, et al. **Curr Genet** 1997 Jan; 31(1):1–6

Transfer RNA structural change is a key element in the reassignment of the CUG codon in Candida albicans. Santos MA, et al. **EMBO J** 1996 Sep 16;15(18):5060–8

Efg1p, an essential regulator of morphogenesis of the human pathogen Candida albicans, is a member of a conserved class of bHLH proteins regulating morphogenetic processes in fungi. Stoldt VR, et al. **EMBO J** 1997 Apr 15; 16(8):1982–91

Use of polymorphic short and clustered coding-region microsatellites to distinguish strains of Candida albicans. Field D, et al. **FEMS Immunol Med Microbiol** 1996 Sep; 15(2–3):73–9

Molecular mechanisms of azole resistance in fungi. Joseph-Horne T, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):141–9 (33 ref.)

Molecular cloning and characterization of a Candida albicans gene (EFB1) coding for the elongation factor EF-1 beta. Maneu V, et al. **FEMS Microbiol Lett** 1996 Dec 1; 145(2):157–62

Temperature-related expression of the vacuolar aspartic proteinase (APR1) gene and beta-N-acetylglucosaminidase (HEX1) gene during Candida albicans morphogenesis. Niimi M, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):247–54

Simultaneous carriage of Candida albicans strains from HIV-infected patients with oral candidiasis: multilocus enzyme electrophoresis analysis. Reynes J, et al.
FEMS Microbiol Lett 1996 Apr 1;137(2–3):269–73

Identification of the gene encoding DNA topoisomerase I from Candida albicans. Taylor A, et al.
FEMS Microbiol Lett 1996 May 1;138(2–3):113–21

Properties of Candida albicans CAN1 permease expressed in Saccharomyces cerevisiae. Matějčková A, et al.
Folia Microbiol (Praha) 1996;41(1):107–9

A Candida albicans genome project: cosmid contigs, physical mapping, and gene isolation. Tait E, et al.
Fungal Genet Biol 1997 Jun;21(3):308–14

A novel group I intron in Candida dubliniensis is homologous to a Candida albicans intron. Boucher H, et al. **Gene** 1996 Nov 21;180(1–2):189–96

Isolation and characterization of a gene encoding alpha-tubulin from Candida albicans. Daly S, et al.
Gene 1997 Mar 18;187(2):151–8

Cloning and expression of squalene epoxidase from the pathogenic yeast Candida albicans. Favre B, et al. **Gene** 1997 Apr 11;189(1):119–26

Sequence and promoter regulation of the PCK1 gene encoding phosphoenolpyruvate carboxykinase of the fungal pathogen Candida albicans. Leuker CE, et al. **Gene** 1997 Jun 19;192(2):235–40

Isolation and molecular characterisation of the POL3 gene from Candida albicans. Nolan T, et al. **Gene** 1996 Dec 12; 183(1–2):159–65

DLH1 is a functional Candida albicans homologue of the meiosis-specific gene DMC1. Diener AC, et al.
Genetics 1996 Jun;143(2):769–76

Reduced virulence of Candida albicans MKC1 mutants: a role for mitogen-activated protein kinase in pathogenesis. Diez-Orejas R, et al. **Infect Immun** 1997 Feb;65(2):833–7

Avirulence of Candida albicans FAS2 mutants in a mouse model of systemic candidiasis. Zhao XJ, et al.
Infect Immun 1997 Feb;65(2):829–32

The Candida albicans HYR1 gene, which is activated in response to hyphal development, belongs to a gene family encoding yeast cell wall proteins. Bailey DA, et al.
J Bacteriol 1996 Sep;178(18):5353–60

Overexpression of a cloned IMP dehydrogenase gene of Candida albicans confers resistance to the specific inhibitor mycophenolic acid. Köhler GA, et al. **J Bacteriol** 1997 Apr;179(7):2331–8

Isolation of the Candida albicans homologs of Saccharomyces cerevisiae KRE6 and SKN1: expression and physiological function. Mio T, et al. **J Bacteriol** 1997 Apr;179(7):2363–72

The mitogen-activated protein kinase homolog HOG1 gene controls glycerol accumulation in the pathogenic fungus Candida albicans. San José C, et al. **J Bacteriol** 1996 Oct; 178(19):5850–2

Cloning and characterization of CSP37, a novel gene encoding a putative membrane protein of Candida albicans. Sentandreu M, et al. **J Bacteriol** 1997 Aug;179(15):4654–63

The WH11 gene of Candida albicans is regulated in two distinct developmental programs through the same transcription activation sequences. Srikantha T, et al.
J Bacteriol 1997 Jun;179(12):3837–44

AP1-mediated multidrug resistance in Saccharomyces cerevisiae requires FLR1 encoding a transporter of the major facilitator superfamily. Alarco AM, et al.
J Biol Chem 1997 Aug 1;272(31):19304–13

Evaluation of an optimized system for random amplified polymorphic DNA (RAPD)-analysis for genotypic mapping of Candida albicans strains. Holmberg K, et al.
J Clin Lab Anal 1996;10(2):59–69

Genetic dissimilarity of two fluconazole-resistant Candida albicans strains causing meningitis and oral candidiasis in the same AIDS patient. Berenguer J, et al.
J Clin Microbiol 1996 Jun;34(6):1542–5

Comparative analysis of genetic variability among Candida albicans isolates from different geographic locales by three genotypic methods. Clemons KV, et al.
J Clin Microbiol 1997 Jun;35(6):1332–6

Variations in fluconazole susceptibility and DNA subtyping of multiple Candida albicans colonies from patients with AIDS and oral candidiasis suffering one or more episodes of infection. Redding SW, et al. **J Clin Microbiol** 1997 Jul; 35(7):1761–5

Molecular cloning of a Rho family, CDC42Ca gene from Candida albicans and its mRNA expression changes during morphogenesis. Mirbod F, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):173–9

Molecular cloning of a gene encoding translation initiation factor (TIF) from Candida albicans. Mirbod F, et al.
J Med Vet Mycol 1996 Nov-Dec;34(6):393–400

New evidence that Candida albicans possesses additional ATP-binding cassette MDR-like genes: implications for antifungal azole resistance. Walsh TJ, et al.
J Med Vet Mycol 1997 Mar-Apr;35(2):133–7

A Candida albicans gene expressed in Saccharomyces cerevisiae results in a distinct pattern of mRNA processing. Iborra A, et al. **Microbiologia** 1996 Sep;12(3):443–8

3-phosphoglycerate kinase: a glycolytic enzyme protein present in the cell wall of Candida albicans. Alloush HM, et al. **Microbiology** 1997 Feb;143 (Pt 2):321–30

Yeast-enhanced green fluorescent protein (yEGFP)a reporter of gene expression in Candida albicans. Cormack BP, et al. **Microbiology** 1997 Feb;143 (Pt 2):303–11

Cloning and characterization of a gene (LIP1) which encodes a lipase from the pathogenic yeast Candida albicans. Fu Y, et al. **Microbiology** 1997 Feb;143 (Pt 2):331–40

A DNA-binding protein from Candida albicans that binds to the RPG box of Saccharomyces cerevisiae and the telomeric repeat sequence of C. albicans. Ishii N, et al.
Microbiology 1997 Feb;143 (Pt 2):417–27

Biochemical and genetic characterization of Rbf1p, a putative transcription factor of Candida albicans. Ishii N, et al.
Microbiology 1997 Feb;143 (Pt 2):429–35

The topoisomerase I gene from Candida albicans. Jiang W, et al. **Microbiology** 1997 Feb;143 (Pt 2):377–86

Specific detection of Candida albicans and Candida tropicalis by fluorescent in situ hybridization with an 18S rRNA-targeted oligonucleotide probe. Lischewski A, et al. **Microbiology** 1996 Oct;142 (Pt 10):2731–40

An oligopeptide transport gene from Candida albicans. Lubkowitz MA, et al. **Microbiology** 1997 Feb;143 (Pt 2):387–96

WO-2, a stable aneuploid derivative of Candida albicans strain WO-1, can switch from white to opaque and form hyphae. Magee BB, et al. **Microbiology** 1997 Feb;143 (Pt 2):289–95

Cloning, analysis and one-step disruption of the ARG5,6 gene of Candida albicans. Negredo A, et al.
Microbiology 1997 Feb;143 (Pt 2):297–302

Variation in assimilating functions occurs in spontaneous Candida albicans mutants having chromosomal alterations. Rustchenko EP, et al. **Microbiology** 1997 May;143 (Pt 5):1765–78

Cloning of Candida albicans genes conferring resistance to azole antifungal agents: characterization of CDR2, a new multidrug ABC transporter gene. Sanglard D, et al.
Microbiology 1997 Feb;143 (Pt 2):405–16

Phenotype in Candida albicans of a disruption of the BGL2 gene encoding a 1,3-beta-glucosyltransferase. Sarthy AV, et al. **Microbiology** 1997 Feb;143 (Pt 2):367–76

Gene regulation during high-frequency switching in Candida albicans. Soll DR. **Microbiology** 1997 Feb;143 (Pt 2):279–88 (60 ref.)

Isolation of the mRNA-capping enzyme and ferric-reductase-related genes from Candida albicans. Yamada-Okabe T, et al. **Microbiology** 1996 Sep;142 (Pt 9):2515–23

Requirement for the Candida albicans FAS2 gene for infection in a rat model of oropharyngeal candidiasis. Zhao XJ, et al. **Microbiology** 1996 Sep;142 (Pt 9):2509–14

PHR2 of Candida albicans encodes a functional homolog of the pH-regulated gene PHR1 with an inverted pattern of pH-dependent expression. Mühlschlegel FA, et al.
Mol Cell Biol 1997 Oct;17(10):5960–7

Strain-relatedness among different populations of the pathogenic yeast Candida albicans analyzed by DNA-based typing methods. Tanaka K.
Nagoya J Med Sci 1997 Mar;60(1–2):1–14 (55 ref.)

Molecular markers reveal that population structure of the human pathogen Candida albicans exhibits both clonality and recombination. Gräser Y, et al.
Proc Natl Acad Sci U S A 1996 Oct 29;93(22):12473–7

Candida albicans strains heterozygous and homozygous for mutations in mitogen-activated protein kinase signaling components have defects in hyphal development. Köhler JR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13223–8

Molecular typing of Candida albicans strains isolated from nosocomial candidemia. Branchini ML, et al.
Rev Inst Med Trop Sao Paulo 1995 Nov-Dec;37(6):483–7

Funding sequencing efforts [letter; comment] Bond E, et al. **Science** 1997 Feb 21;275(5303):1051–2. Comment on: Science 1996 Oct 25;274(5287):546, 563–7.

Control of filament formation in Candida albicans by the transcriptional repressor TUP1 [see comments] Braun BR, et al. **Science** 1997 Jul 4;277(5322):105–9. Comment in: Science 1997 Jul 4;277(5322):52–3.

Which came first, the hypha or the yeast? [comment] Magee PT. **Science** 1997 Jul 4;277(5322):52–3. Comment on: Science 1997 Jul 4;277(5322):105–9.

Are Candida albicans natural populations subdivided? Tibayrenc M. **Trends Microbiol** 1997 Jul;5(7):253–4; discussion 254–7

A Candida albicans gene encoding a DNA ligase. Andaluz E, et al. **Yeast** 1996 Jul;12(9):893–8

Molecular cloning of a Candida albicans gene (SSB1) coding for a protein related to the Hsp70 family. Maneu V, et al. **Yeast** 1997 Jun 15;13(7):677–81

Cloning of Candida albicans SEC14 gene homologue coding for a putative essential function. Monteoliva L, et al.
Yeast 1996 Sep 15;12(11):1097–105

Isolation and characterization of the Candida albicans PFY1 gene for profilin. Ostrander DB, et al. **Yeast** 1997 Jul; 13(9):871–80

The Candida albicans PKC1 gene encodes a protein kinase C homolog necessary for cellular integrity but not dimorphism. Paravicini G, et al. **Yeast** 1996 Jun 30; 12(8):741–56

Understanding Candida albicans at the molecular level. Pla J, et al. **Yeast** 1996 Dec;12(16):1677–702 (318 ref.)

Sequence analysis of the Candida albicans ADE2 gene and physical separation of the two functionally distinct domains of the phosphoribosylaminoimidazole carboxylase.
Schmuke JJ, et al. **Yeast** 1997 Jun 30;13(8):769–76

Review: the Cct eukaryotic chaperonin subunits of Saccharomyces cerevisiae and other yeasts. Stoldt V, et al. **Yeast** 1996 May;12(6):523–9 (36 ref.)

Sequence analysis of Candida albicans phosphoribosyl-aminoimidazole carboxylase (ADE2) gene. Tsang WK, et al. **Yeast** 1997 Jun 15;13(7):673–6

[Candida infections: new epidemiologic markers] Bastide JM.
Rev Med Interne 1996;17 Suppl 3:346s–348s **(Fre)**

GROWTH & DEVELOPMENT

The effect of estradiol on Candida albicans growth. Gujjar PR, et al. **Ann Clin Lab Sci** 1997 Mar-Apr;27(2):151–6

Inhibitory effects of seven organosulphur compounds on clinical isolates of Candida species in vitro. Shah DT, et al. **Ann Clin Lab Sci** 1997 Jul-Aug;27(4):282–6

Hemoglobin is utilized by Candida albicans in the hyphal form but not yeast form. Tanaka WT, et al.
Biochem Biophys Res Commun 1997 Mar 17;232(2):350–3

Anti Candida activity of induced transferrin in mice immunized with inactivated Candida albicans. Watanabe T, et al. **Biol Pharm Bull** 1997 Jun;20(6):637–40

Microbial adhesion to ionogenic PHEMA, PU and PP implants. Kiremitci-Gumusderelioglu M, et al.
Biomaterials 1996 Feb;17(4):443–9

The yeast to hyphal transition following hematogenous candidiasis induces shock and organ injury independent of circulating tumor necrosis factor-alpha. Matuschak GM, et al. **Crit Care Med** 1997 Jan;25(1):111–20

Augmented inhibition of growth of Candida albicans by neutrophils in the presence of lactoferrin. Okutomi T, et al. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):105–12

Defibrotide augments the anticandidial activity of NK cells. Turhan A, et al. **Gen Pharmacol** 1997 May;28(5):733–5

The involvement of nitric oxide in the anti-Candida albicans activity of rat neutrophils. Fierro IM, et al.
Immunology 1996 Oct;89(2):295–300

Inhibition of Candida albicans growth by calprotectin in the absence of direct contact with the organisms. Sohnle PG, et al. **J Infect Dis** 1996 Dec;174(6):1369–72

Neutrophil depletion increases susceptibility to systemic and vaginal candidiasis in mice, and reveals differences between brain and kidney in mechanisms of host resistance. Fulurija A, et al. **Microbiology** 1996 Dec;142 (Pt 12):3487–96

Metabolism of inositol 1,4,5-trisphosphate in Candida albicans: significance as a precursor of inositol

polyphosphates and in signal transduction during the dimorphic transition from yeast cells to germ tubes. Gadd GM, et al. **Microbiology** 1997 Feb;143 (Pt 2):437–48

Utility of Albicans ID plate for rapid identification of Candida albicans in clinical samples. Rapid identification of Candida albicans. Contreras I, et al. **Mycopathologia** 1996;136(1):17–20

Glucose influence on germ tube production in Candida albicans. Vidotto V, et al. **Mycopathologia** 1996; 133(3):143–7

Influence of fructose on Candida albicans germ tube production. Vidotto V, et al. **Mycopathologia** 1996; 135(2):85–8

Growth patterns of Candida albicans in relation to radicular dentin. Sen BH, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Jul;84(1):68–73

Antimicrobial activity and biocompatibility of polyurethane and silicone catheters containing low concentrations of silver: a new perspective in prevention of polymer-associated foreign-body-infections. Böswald M, et al. **Zentralbl Bakteriol** 1995 Dec;283(2):187–200

IMMUNOLOGY

Allergenicity of acid protease secreted by Candida albicans. Akiyama K, et al. **Allergy** 1996 Dec;51(12):887–92

Anti-Candida albicans IgE and IgG subclasses in sera of patients with allergic bronchopulmonary aspergillosis (ABPA). Roig E, et al. **Allergy** 1997 Apr;52(4):394–403

Reduced proliferative responses of peripheral blood mononuclear cells specifically to Candida albicans antigen in patients with atopic dermatitis—comparison with their normal reactivity to bacterial superantigens. Tanaka M, et al. **Arch Dermatol Res** 1996 Aug;288(9):495–9

Differential effects of granulocyte/macrophage colony-stimulating factor (GM-CSF) in enhancing macrophage resistance to Legionella pneumophila vs Candida albicans. Yamamoto Y, et al. **Cell Immunol** 1997 Feb 25;176(1):75–81

Differential humoral response against alpha- and beta-linked mannose residues associated with tissue invasion by Candida albicans. Jouault T, et al.
Clin Diagn Lab Immunol 1997 May;4(3):328–33

Evidence for the presence of immunoglobulin E antibodies specific to the cell wall phosphomannoproteins of Candida albicans in patients with allergies. Kanbe T, et al.
Clin Diagn Lab Immunol 1996 Nov;3(6):645–50

Monoclonal yeast killer toxin-like candidacidal anti-idiotypic antibodies. Polonelli L, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):142–6

A comparison of the development of antibody responses to the polysaccharide antigen (Candida albicans mannan) in atopic and healthy infants and children. Nermes M, et al. **Clin Exp Allergy** 1996 Feb;26(2):164–70

Effect of beta-endorphin on adherence, chemotaxis and phagocytosis of Candida Albicans by peritoneal macrophages. Ortega E, et al.
Comp Immunol Microbiol Infect Dis 1996 Sep;19(4):267–74

Immunohistochemistry with monoclonal antibody against Candida albicans mannan antigen demonstrates cutaneous Candida granulomas as evidence of Candida sepsis in an immunosuppressed host. Breier F, et al. **Dermatology** 1997; 194(3):293–6

Temperature-dependent surface expression of the beta-2-integrin analogue of Candida albicans and its role in adhesion to the human endothelium. Würzner R, et al. **Exp Clin Immunogenet** 1996;13(3–4):161–72

Impaired systemic immunity and frequent infection in patients with Candida antigen after hepatectomy. Shirabe K, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):199–204

Protective role of antimannan and anti-aspartyl proteinase antibodies in an experimental model of Candida albicans vaginitis in rats. De Bernardis F, et al. **Infect Immun** 1997 Aug;65(8):3399–405

Gamma interferon protects endothelial cells from damage by Candida albicans by inhibiting endothelial cell phagocytosis. Fratti RA, et al. **Infect Immun** 1996 Nov; 64(11):4714–8

Monocyte chemoattractant protein 1 and interleukin-8 production in mononuclear cells stimulated by oral microorganisms. Jiang Y, et al. **Infect Immun** 1996 Nov; 64(11):4450–5

Ubiquitin-like epitopes associated with Candida albicans cell surface receptors. Sepulveda P, et al. **Infect Immun** 1996 Oct;64(10):4406–8

Involvement of mannose receptor in cytokine interleukin-1beta (IL-1beta), IL-6, and granulocyte-macrophage colony-stimulating factor responses, but not in chemokine macrophage inflammatory protein 1beta (MIP-1beta), MIP-2, and KC responses, caused by attachment of Candida albicans to macrophages. Yamamoto Y, et al. **Infect Immun** 1997 Mar;65(3):1077–82

Mannan-specific immunoglobulin G antibodies in normal human serum mediate classical pathway initiation of C3 binding to Candida albicans. Zhang MX, et al.
Infect Immun 1997 Sep;65(9):3822–7

Macrophage-mediated candidacidal activity is augmented by exposure to eosinophil peroxidase: a paradigm for eosinophil-macrophage interaction. Lefkowitz DL, et al. **Inflammation** 1997 Apr;21(2):159–72

Mannoproteins from Candida albicans elicit a Th-type-1 cytokine profile in human Candida specific long-term T cell cultures. La Sala A, et al.
J Biol Regul Homeost Agents 1996 Jan–Mar;10(1):8–12

Reactivity of Candida albicans germ tubes with salivary secretory IgA. Pontón J, et al. **J Dent Res** 1996 Dec; 75(12):1979–85

B cell-independent selection of memory T cells after mucosal immunization with Candida albicans. Jones-Carson J, et al. **J Immunol** 1997 May 1;158(9):4328–35

Induction of protective Th1 responses to Candida albicans by antifungal therapy alone or in combination with an interleukin-4 antagonist. Cenci E, et al. **J Infect Dis** 1997 Jul;176(1):217–26

Vaginal-associated immunity in women with recurrent vulvovaginal candidiasis: evidence for vaginal Th1-type responses following intravaginal challenge with Candida antigen. Fidel PL Jr, et al. **J Infect Dis** 1997 Sep; 176(3):728–39

Assessment of a mouse model of neutropenia and the effect of an anti-candidiasis monoclonal antibody in these animals. Han Y, et al. **J Infect Dis** 1997 May;175(5):1169–75

Granulocyte colony-stimulating factor administered in vivo augments neutrophil-mediated activity against opportunistic fungal pathogens. Liles WC, et al.
J Infect Dis 1997 Apr;175(4):1012–5

Iron overload alters innate and T helper cell responses to Candida albicans in mice. Mencacci A, et al.
J Infect Dis 1997 Jun;175(6):1467–76

Production of IL-6 and TNF-alpha by the macrophage-like cell line RAW 264.7 after treatment with a cell wall extract of Candida albicans. Vazquez N, et al.
J Interferon Cytokine Res 1996 Jun;16(6):465–70

Infection by Candida albicans inhibits apoptosis of human monocytes and monocytic U937 cells. Heidenreich S, et al. **J Leukoc Biol** 1996 Dec;60(6):737–43

Release of Candida albicans yeast antigens upon interaction with human neutrophils in vitro. Ashley C, et al.
J Med Microbiol 1997 Sep;46(9):747–55

Kinetics of anti-mannan antibodies useful in confirming invasive candidiasis in immunocompromised patients. van Deventer AJ, et al. **Microbiol Immunol** 1996;40(2):125–31

The highly immunogenic enolase and Hsp70p are adventitious Candida albicans cell wall proteins. Eroles P, et al. **Microbiology** 1997 Feb;143 (Pt 2):313–20

Re-expression by Candida albicans germ tubes of antigens lost during subculture of blastospores. Hernando FL, et al. **Mycopathologia** 1996;134(1):1–6

Activated CD8+ T cells are involved in elimination of Candida albicans from the livers of mice. Kretschmar M, et al. **Mycoses** 1997 Jan–Feb;40(1–2):41–6

Local and systemic immune response to inactivated Candida albicans in mice. Scaringi L, et al. **Nat Immun** 1995 Sep; 14(5–6):234–49

Neutrophils and the adaptive immune response to Candida albicans. Romani L, et al. **Res Immunol** 1996 Oct–Dec; 147(8–9):512–8 (43 ref.)

[Diagnosis of delayed type hypersensitivity to Candida albicans. Evaluation of lymphocyte activation by flow cytometry (171 observations)] Brunet JL, et al.
Allerg Immunol (Paris) 1997 Jun;29(6):160–4 (Eng. Abstr.) **(Fre)**

[Chronic eosinophilic pneumonia associated with allergy to candida and with changes in bronchoalveolar lavage fluid] Nakagawa A, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 May; 35(5):530–5 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Chemoprophylaxis of fungal deterioration of the Provox silicone tracheoesophageal prosthesis in postlaryngectomy patients. van Weissenbruch R, et al.
Ann Otol Rhinol Laryngol 1997 Apr;106(4):329–37

Candida albicans infection of bilateral polyurethane-coated silicone gel breast implants. Niazi ZB, et al.
Ann Plast Surg 1996 Jul;37(1):91–3

Failure of systemic empirical treatment with amphotericin B to prevent candidemia in neutropenic patients with cancer. Blumberg EA, et al. **Clin Infect Dis** 1996 Mar; 22(3):462–6

Vaginal colonization or infection with Candida albicans in human immunodeficiency virus-infected women during pregnancy and during the postpartum period. Women and Infants Transmission Study Group. Burns DN, et al.
Clin Infect Dis 1997 Feb;24(2):201–10

Epidemiology and ecology of onychomycosis. Summerbell RC. **Dermatology** 1997;194 Suppl 1:32–6 (12 ref.)

Evaluation of CHROMagar Candida medium for the isolation and presumptive identification of species of Candida of clinical importance. Bernal S, et al.
Diagn Microbiol Infect Dis 1996 Apr;24(4):201–4

Comparison of the Murex Candida albicans CA50 test with germ tube production for identification of C. albicans. Fenn JP, et al. **Diagn Microbiol Infect Dis** 1996 Jan;24(1):31–5

Semiquantitative polymerase chain reaction enzyme immunoassay for diagnosis of disseminated candidiasis. Burnie JP, et al. **Eur J Clin Microbiol Infect Dis** 1997 May; 16(5):346–50

Bilateral endogenous Candida endophthalmitis and chorioretinitis following toxic megacolon [letter] Henderson T, et al. **Eye** 1996;10 (Pt 6):755–7

Microorganisms in vaginal fluid from women in prolonged pregnancy. Goffeng AR, et al. **Gynecol Obstet Invest** 1997; 44(1):16–20

Fungal endocarditis--a report on seven cases and a brief review. Hogevik H, et al. **Infection** 1996 Jan–Feb; 24(1):17–21 (40 ref.)

Funguria in cancer patients: analysis of risk factors, clinical presentation and outcome in 50 patients. Oravcova E, et al. **Infection** 1996 Jul–Aug;24(4):319–23

Fluconazole in Candida albicans sepsis during pregnancy: case report and review of the literature. Wiesinger EC, et al. **Infection** 1996 May–Jun;24(3):263–6

Comparison of four molecular typing methods for evaluating genetic diversity among Candida albicans isolates from human immunodeficiency virus-positive patients with oral candidiasis. Díaz-Guerra TM, et al. **J Clin Microbiol** 1997 Apr;35(4):856–61

Comparison of rapid testing methods for enzyme production with the germ tube method for presumptive identification of Candida albicans. Heelan JS, et al. **J Clin Microbiol** 1996 Nov;34(11):2847–9

A single strain of Candida albicans associated with separate episodes of fungemia and meningitis. Porter SD, et al.
J Clin Microbiol 1996 Jul;34(7):1813–4

Evaluation of bichro-latex albicans, a new method for rapid identification of Candida albicans. Quindos G, et al.
J Clin Microbiol 1997 May;35(5):1263–5

Mucosal lesions in severe combined immunodeficiency syndrome. Messner AH, et al. **J Otolaryngol** 1996 Jun; 25(3):200–2

Utility of Albicans ID plate for rapid identification of Candida albicans in clinical samples. Rapid identification of Candida albicans. Contreras I, et al. **Mycopathologia** 1996;136(1):17–20

Fluorometric determination of acid proteinase activity in vulvovaginal candidosis. Kiliç N, et al. **Mycoses** 1996 Sep–Oct;39(9–10):347–51

Detection of Candida albicans DNA with a yeast-specific primer system by polymerase chain reaction. Wildfeuer A, et al. **Mycoses** 1996 Sep–Oct;39(9–10):341–6

[The clinical course of fungal urinary tract infection in neonates] Ratajczak B, et al. **Pediatr Pol** 1996 Apr; 71(4):331–7 (Eng. Abstr.) **(Pol)**

[Malignant angular cheilitis] Seoane J, et al.
Acta Otorrinolaringol Esp 1996 Jul–Aug;47(4):325–7 (Eng. Abstr.) **(Spa)**

METABOLISM

Inhibitors of Candida albicans adhesion to prevent candidiasis. Segal E. **Adv Exp Med Biol** 1996;408:197–206 (25 ref.)

Differential profiles of soluble proteins during the initiation of morphogenesis in Candida albicans. Niimi M, et al.
Arch Microbiol 1996 Oct;166(4):260–8

Hemoglobin is utilized by Candida albicans in the hyphal form but not yeast form. Tanaka WT, et al.
Biochem Biophys Res Commun 1997 Mar 17;232(2):350–3

Expression and quantification of the iC3b-binding protein in different Candida albicans strains and their morphological stages. Bujdáková H, et al.
FEMS Immunol Med Microbiol 1997 Jul;18(3):147–52

Thermotolerance and trehalose accumulation induced by heat shock in yeast cells of Candida albicans. Argüelles JC.
FEMS Microbiol Lett 1997 Jan 1;146(1):65–71

Reduced intracellular accumulation of azole antifungal results in resistance in Candida albicans isolate NCPF 3363. Lamb DC, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):189–93

Changes in the cellular composition of Candida albicans resistant to miconazole. Sharma S, et al.
Indian J Biochem Biophys 1996 Oct;33(5):420–4

Candida albicans binding to the oral bacterium Streptococcus gordonii involves multiple adhesin-receptor interactions. Holmes AR, et al. **Infect Immun** 1996 Nov;64(11):4680–5

Isolation and composition of inositolphosphorylceramide-type sphingolipids of hyphal forms of Candida albicans. Wells GB, et al. **J Bacteriol** 1996 Nov;178(21):6223–6

Human immunodeficiency virus type 1 gp41 binds to Candida albicans via complement C3-like regions. Würzner R, et al. **J Infect Dis** 1997 Aug;176(2):492–8

Cloning and characterization of a cDNA coding for Candida albicans polyubiquitin [published erratum appears in J Med Vet Mycol 1996 Nov–Dec;34(6):434] Sepulveda P, et al. **J Med Vet Mycol** 1996 Sep–Oct;34(5):315–22

Metabolism of inositol 1,4,5-trisphosphate in Candida albicans: significance as a precursor of inositol polyphosphates and in signal transduction during the dimorphic transition from yeast cells to germ tubes. Gadd GM, et al. **Microbiology** 1997 Feb;143 (Pt 2):437–48

Identification of salivary basic proline-rich proteins as receptors for Candida albicans adhesion. O'Sullivan JM, et al. **Microbiology** 1997 Feb;143 (Pt 2):341–8

Changes in cell morphology and carnitine acetyltransferase activity in Candida albicans following growth on lipids and serum and after in vivo incubation in mice. Sheridan R, et al. **Microbiology** 1996 Nov;142 (Pt 11):3171–80

[Comparative analysis of metabolites of Candida albicans and other clinically important fungi using gas chromatography] Pozdorovkina VV, et al. **Antibiot Khimioter** 1996 May; 41(5):39–45 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Ingestion of Candida albicans down-regulates mannose receptor expression on rat macrophages. Shepherd VL, et

al. **Arch Biochem Biophys** 1997 Aug 15;344(2):350–6
Nonfilamentous C. albicans mutants are avirulent. Lo HJ, et al. **Cell** 1997 Sep 5;90(5):939–49
Differential humoral response against alpha- and beta-linked mannose residues associated with tissue invasion by Candida albicans. Jouault T, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):328–33
Spondylodiskitis due to Candida albicans: report of two patients who were successfully treated with fluconazole and review of the literature. Hennequin C, et al. **Clin Infect Dis** 1996 Jul;23(1):176–8 (18 ref.)
The yeast to hyphal transition following hematogenous candidiasis induces shock and organ injury independent of circulating tumor necrosis factor–alpha. Matuschak GM, et al. **Crit Care Med** 1997 Jan;25(1):111–20
Virulence and hyphal formation of Candida albicans require the Ste20p-like protein kinase CaCla4p. Leberer E, et al. **Curr Biol** 1997 Aug 1;7(8):539–46
Degradation of human subendothelial extracellular matrix by proteinase-secreting Candida albicans. Morschhäuser J, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):349–55
Activation of cytokine genes during primary and anamnestic immune response to inactivated c. albicans. Rosati E, et al. **Immunology** 1996 Sep;89(1):142–51
Reduced virulence of Candida albicans MKC1 mutants: a role for mitogen-activated protein kinase in pathogenesis. Diez-Orejas R, et al. **Infect Immun** 1997 Feb;65(2):833–7
Disruption of each of the secreted aspartyl proteinase genes SAP1, SAP2, and SAP3 of Candida albicans attenuates virulence. Hube B, et al. **Infect Immun** 1997 Sep; 65(9):3529–38
A triple deletion of the secreted aspartyl proteinase genes SAP4, SAP5, and SAP6 of Candida albicans causes attenuated virulence. Sanglard D, et al. **Infect Immun** 1997 Sep;65(9):3539–46
Avirulence of Candida albicans FAS2 mutants in a mouse model of systemic candidiasis. Zhao XJ, et al. **Infect Immun** 1997 Feb;65(2):829–32
Reactivity of Candida albicans germ tubes with salivary secretory IgA. Pontón J, et al. **J Dent Res** 1996 Dec; 75(12):1979–85
Candida albicans and Escherichia coli are synergistic pathogens during experimental microbial peritonitis. Klaerner HG, et al. **J Surg Res** 1997 Jul 1;70(2):161–5
The topoisomerase I gene from Candida albicans. Jiang W, et al. **Microbiology** 1997 Feb;143 (Pt 2):377–86
Requirement for the Candida albicans FAS2 gene for infection in a rat model of oropharyngeal candidiasis. Zhao XJ, et al. **Microbiology** 1996 Sep;142 (Pt 9):2509–14
Comparative virulence of Candida albicans strains in CFW1 mice and Sprague-Dawley rats. Schmidt A, et al. **Mycoses** 1996 May-Jun;39(5–6):157–60
An integrin-like protein in Candida albicans: implications for pathogenesis. Hostetter MK. **Trends Microbiol** 1996 Jun; 4(6):242–6
[Pathogenicity of fungi in the intestines--current status of the discussion] Scheurlen M. **Fortschr Med** 1996 Sep 20; 114(26):319–21 (20 ref.) (Eng. Abstr.) **(Ger)**
[Obstructive renal insufficiency due to Candida. Fluconazole as a valid alternative to classical therapy] Diez-Delgado Rubio J, et al. **An Esp Pediatr** 1997 Mar;46(3):296–8 **(Spa)**

PHYSIOLOGY

Adherence of Candida albicans strains isolated from AIDS patients. Comparison with pathogenic yeasts isolated from patients without HIV infection. Pereiro M Jr, et al. **Br J Dermatol** 1997 Jul;137(1):76–80
Effect of thermal injury on the adherence of Candida albicans to murine splenic tissue. Neely AN, et al. **Infect Immun** 1997 Aug;65(8):3493–5
Migration of the fungal pathogen Candida albicans across endothelial monolayers. Zink S, et al. **Infect Immun** 1996 Dec;64(12):5085–91
Candida albicans induces the release of inflammatory mediators from human peripheral blood monocytes. Castro M, et al. **Inflammation** 1996 Feb;20(1):107–22
Candida albicans induces selective expansion of human T lymphocytes expressing the T-cell receptor variable region V beta 5.1. Walsh P, et al. **J Dermatol Sci** 1996 Jun; 12(2):140–6
Epithelial adherence of Candida albicans is enhanced by passage through rat small intestine. Nath G, et al. **J Diarrhoeal Dis Res** 1996 Dec;14(4):286–8
Induction of human immunodeficiency virus type 1 expression in monocytic cells by Cryptococcus neoformans and Candida albicans. Harrison TS, et al. **J Infect Dis** 1997 Aug;176(2):485–91
Membrane changes associated with the early stages of apoptosis in HEp-2 cells decrease susceptibility to adherence by Candida albicans. Cotter G, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):219–24
Molecular bases of adhesion of Candida albicans. Fukazawa Y, et al. **J Med Vet Mycol** 1997 Mar-Apr;35(2):87–99 (106 ref.)
Effects of salivary or serum pellicles on the Candida albicans growth and biofilm formation on soft lining materials in vitro. Nikawa H, et al. **J Oral Rehabil** 1997 Aug; 24(8):594–604
Frequency distribution of Candida albicans blastospores adhered to mucosal epithelial cells in-vitro. Gorman SP, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1315–9
Retention of Candida albicans on acrylic resin and silicone of different surface topography. Verran J, et al. **J Prosthet Dent** 1997 May;77(5):535–9
Adherence of Candida albicans to experimental denture soft lining materials. Waters MG, et al. **J Prosthet Dent** 1997 Mar;77(3):306–12
Incubation temperatures affect adherence to plastic of Candida albicans by changing the cellular surface hydrophobicity. Blanco MT, et al. **Microbios** 1997; 89(358):23–8
Pulmonary clearance of Candida albicans: effect of exposure to native and metal-coated fly ash. Bajpai R, et al. **Mycopathologia** 1996;135(2):103–8
The morphology of Candida albicans in two different Earle base media in the presence of tunicamycin. Vespa MN, et al. **Mycoses** 1996 Jul-Aug;39(7–8):271–7
Observation on the nucleic acids in the chlamydospores of Candida albicans. Vidotto V, et al. **New Microbiol** 1996 Oct;19(4):327–34
Candida albicans strains heterozygous and homozygous for mutations in mitogen-activated protein kinase signaling components have defects in hyphal development. Köhler JR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13223–8
Signal transduction through homologs of the Ste20p and Ste7p protein kinases can trigger hyphal formation in the pathogenic fungus Candida albicans. Leberer E, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13217–22
Gastrointestinal translocation as a possible source of candidemia in an AIDS patient. Colombo AL, et al. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):197–200

ULTRASTRUCTURE

Ultrastructural and biochemical studies on Candida albicans after prolonged incubation in sea water. Gorga F, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):167–72
Scanning electron microscopy of the development of structured aerial mycelia and satellite colonies of phenotypically switched Candida albicans. Radford DR, et al. **J Med Microbiol** 1997 Apr;46(4):326–32
Ultrastructural alterations of Candida albicans induced by a new imidazole antimycotic omoconazole nitrate. Nishiyama Y, et al. **Microbiol Immunol** 1997;41(5):395–402
High resolution X-ray micrography of live Candida albicans using laser plasma pulsed point X-ray sources. Rajyaguru JM, et al. **Microbiology** 1997 Mar;143 (Pt 3):733–8
Changes in cell morphology and carnitine acetyltransferase activity in Candida albicans following growth on lipids and serum and after in vivo incubation in mice. Sheridan R, et al. **Microbiology** 1996 Nov;142 (Pt 11):3171–80
The morphology of Candida albicans in two different Earle base media in the presence of tunicamycin. Vespa MN, et al. **Mycoses** 1996 Jul-Aug;39(7–8):271–7
Morphotypes of Candida albicans and their associations with underlying diseases and source of samples. Riviera L, et al. **New Microbiol** 1996 Oct;19(4):335–43

CANDIDIASIS

Update on invasive candidiasis. Rodriguez LJ, et al. **Adv Pharmacol** 1997;37:349–400 (462 ref.)
Fungal vaginitis caused by nonalbicans species [letter] Chaim W. **Am J Obstet Gynecol** 1997 Aug;177(2):485–6
Candida pericarditis: clinical profile and treatment. Rabinovici R, et al. **Ann Thorac Surg** 1997 Apr;63(4):1200–4 (31 ref.)
Images in cardiovascular medicine. Fungal mass on the tricuspid valve. Mathew J, et al. **Circulation** 1996 Oct 15; 94(8):2040
Fungal endocarditis in premature infants: case report and review. Mayayo E, et al. **Clin Infect Dis** 1996 Feb; 22(2):366–8 (16 ref.)
Candida prosthetic valve endocarditis: prospective study of six cases and review of the literature. Nguyen MH, et al. **Clin Infect Dis** 1996 Feb;22(2):262–7 (21 ref.)
Chronic paronychia and onycholysis: a thirteen-year experience. Daniel CR 3rd, et al. **Cutis** 1996 Dec; 58(6):397–401
Yeast infections. Hay RJ. **Dermatol Clin** 1996 Jan; 14(1):113–24 (33 ref.)
Candida albicans mycotic abdominal aortic aneurysm. Barry MC, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):237–9
Candida albicans: is it associated with nipple pain in lactating women? Amir LH, et al. **Gynecol Obstet Invest** 1996; 41(1):30–4
Right atrial mass due to fungal endocarditis in an infant. Kothari SS, et al. **Indian Pediatr** 1996 Jul;33(7):593–5
Increasing threat of fungemia in Japan [editorial; comment] Kohno S. **Intern Med** 1996 Sep;35(9):675–6. Comment on: Intern Med 1996 Sep;35(9):707–11.
Neonatal systemic candidiasis. McDonnell M, et al. **J Paediatr Child Health** 1995 Dec;31(6):490–2 (20 ref.)
Transient achalasia-like esophageal motility disorder after candida esophagitis in a boy with chronic granulomatous disease. Bode CP, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):320–3
Candida albicans infection of prosthetic joints. Cardinal E, et al. **Orthopedics** 1996 Mar;19(3):247–51 (34 ref.)
Peripheral thrombophlebitis caused by Candida. Friedland IR. **Pediatr Infect Dis J** 1996 Apr;15(4):375–7
Invasive candidiasis in infants weighing more than 2500 grams at birth admitted to a neonatal intensive care unit. Rabalais GP, et al. **Pediatr Infect Dis J** 1996 Apr; 15(4):348–52
Complications associated with the use of the Swan neck presternal catheter: a case report [letter] Warchol S, et al. **Perit Dial Int** 1997 May-Jun;17(3):309
Esophageal candidiasis in HIV-negative patients. Ortuño Cortés JA, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):503–10 **(Eng, Spa)**
Candida albicans osteomyelitis in a liver transplant recipient: a case report and review of the literature. Jonnalagadda S, et al. **Transplantation** 1996 Oct 27;62(8):1182–4 (19 ref.)
[Mycethemia: an analysis of 56 cases] Zhang H, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):132–4 (Eng. Abstr.) **(Chi)**
[Sepsis caused by Candida in the neonatal period] Padovani EM, et al. **Pediatr Med Chir** 1997 Mar-Apr;19(2):83–8 (Eng. Abstr.) **(Ita)**
[Vertebral osteomyelitis by Prevotella melaninogenica, Candida albicans and Mycobacterium tuberculosis in a intravenous drug addict (letter)] Salavert M, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):117–9 **(Spa)**
[Esophageal candidiasis in patients without cellular immunity changes. Report of 7 cases] Alemán C, et al. **Rev Clin Esp** 1996 Jun;196(6):375–7 (Eng. Abstr.) **(Spa)**
[The problems of Candida infection in the HIV-positive patient] Arrizabalaga Aguirreazaldegui J, et al. **Rev Clin Esp** 1997 Apr;197 Suppl 1:44–8 (44 ref.) **(Spa)**

BLOOD

Microbiostatic activity of human plasma and its relation to zinc and iron availability. Clohessy PA, et al. **Biochem Soc Trans** 1996 May;24(2):311S
Hospital-acquired candidaemia: experience from a developing country. al Soub H, et al. **J Hosp Infect** 1997 Feb;35(2):141–7
Role of buffy coat examination in the diagnosis of neonatal candidemia. Reddy TC, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):718–20

COMPLICATIONS

Erythema annulare centrifugum and intestinal Candida albicans infection--coincidence or connection? [letter] Schmid MH, et al. **Acta Derm Venereol** 1997 Jan;77(1):93–4
Intrauterine candidiasis in a twin pregnancy after myomectomy, in vitro fertilization and embryo transfer. Donders GG, et al. **Arch Gynecol Obstet** 1997;259(4):201–4
Isolated subcutaneous candidal abscess and HIV disease [letter] Manfredi R, et al. **Br J Dermatol** 1997 Apr; 136(4):647–9
Bilateral fungal bezoars in the renal pelvis. Patel B, et al. **Br J Urol** 1996 Oct;78(4):651–2
Xanthogranulomatous cholecystitis due to invasive Candida albicans in a patient with AIDS. Brown H, et al. **Clin Infect Dis** 1996 Jan;22(1):186–7
Pulmonary mycetoma due to Candida albicans: case report and review. Shelly MA, et al. **Clin Infect Dis** 1996 Jan; 22(1):133–5 (16 ref.)
Fluconazole-resistant Candida parapsilosis fungemia in a patient with AIDS. Tumbarello M, et al. **Clin Infect Dis** 1996 Jan;22(1):179–80
Biofilm formation in infectious crystalline keratopathy due to Candida albicans. Elder MJ, et al. **Cornea** 1996 May; 15(3):301–4
The yeast to hyphal transition following hematogenous candidiasis induces shock and organ injury independent of circulating tumor necrosis factor–alpha. Matuschak GM, et al. **Crit Care Med** 1997 Jan;25(1):111–20
Candida endophthalmitis in non-neutropenic critically ill patients [see comments] Nolla-Salas J, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):503–6. Comment in: Eur J Clin Microbiol Infect Dis 1997 Mar;16(3):256–7.
Recovery from pulmonary mucormycosis and candidiasis in diabetic ketoacidosis. Passi GR, et al. **Indian Pediatr** 1996 Dec;33(12):1047–50
Candida tropicalis arthritis in a patient with acute myeloid leukemia successfully treated with fluconazole: case report and review of the literature. Weers-Pothoff G, et al. **Infection** 1997 Mar-Apr;25(2):109–11 (25 ref.)
An unusual presentation of tracheoesophageal fistula [letter] Serrano N, et al. **Intensive Care Med** 1996 Jul;22(7):717–8
Postinflammatory hydrocephalus and intracranial mass lesion from Candida in an immunocompetent child. Mason TB 2nd, et al. **J Child Neurol** 1996 Jul;11(4):336–41
Diagnosis of invasive candidiasis in neutropenic children with cancer by determination of D-arabinitol/L-arabinitol ratios in urine. Christensson B, et al. **J Clin Microbiol** 1997 Mar; 35(3):636–40
Invasive candidiasis of a late presentation laryngeal chondroradionecrosis. Hollis LJ, et al. **J Laryngol Otol** 1996 Aug;110(8):789–92
Candida infection following severe trauma exacerbates Th2 cytokines and increases mortality. Mack VE, et al. **J Surg Res** 1997 May;69(2):399–407
Multiple hepatic hemorrhagic mycotic pseudoaneurysms treated with embolization. Tharp RW, et al. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):876–8
Minimally differentiated acute myeloid leukemia, AML-M0, terminated in candidial fungemia [clinical conference] Okamoto S, et al. **Keio J Med** 1996 Dec;45(4):336–44
Mixed infection by Staphylococcus and Candida, and

Wegener's granulomatosis. Valenti S, et al. **Monaldi Arch Chest Dis** 1996 Oct;51(5):387–90

Candida arthritis complicating long term total parenteral nutrition. Murphy O, et al. **Pediatr Infect Dis J** 1997 Mar; 16(3):329

Neonatal renal failure due to obstructive candidal bezoars. Hari P, et al. **Pediatr Nephrol** 1997 Aug;11(4):497–8

[Candida pyelonephritis (letter)] Kernbaum S, et al. **Ann Fr Anesth Reanim** 1996;15(5):691–2 **(Fre)**

[Coping with opportunistic mycoses in patients with collagen diseases] Kono S. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1889–94 (5 ref.) **(Jpn)**

[Two cases of Candida endocarditis associated with abdominal disease] Hamada Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):33–7 (Eng. Abstr.) **(Jpn)**

[Acute renal insufficiency during Candida albicans candidiasis in a 2–month old infant] Filipowicz J, et al. **Przegl Lek** 1997;54(1):73–5 (Eng. Abstr.) **(Pol)**

[Recurrent ARDS in varicella pneumonia complicated by disseminated candidiasis in a pregnant woman] Prieto Valderrey F, et al. **An Med Interna** 1996 Oct;13(10):491–3 (Eng. Abstr.) **(Spa)**

CONGENITAL

Congenital candidiasis. Khambadkone SM, et al. **Indian Pediatr** 1996 Jun;33(6):512–6

[Thrombopenia induced by amphotericin B in an extremely premature infant with congenital candidiasis (letter)] Baud O, et al. **Arch Pediatr** 1996 Aug;3(8):831–2 **(Fre)**

DIAGNOSIS

Disseminated miliary cerebral candidiasis. Lai PH, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1303–6

Candida splenic abscess in the absence of obvious immunodeficiency. Kapur A, et al. **Am J Gastroenterol** 1997 Mar;92(3):509–12 (29 ref.)

The coexistence of primary esophageal lymphoma and Candida glabrata esophagitis presenting as dysphagia and odynophagia in a patient with acquired immunodeficiency syndrome. Marnejon T, et al. **Am J Gastroenterol** 1997 Feb; 92(2):354–6 (10 ref.)

Radiological case of the month. Candida meningitis in a low–birth–weight infant. DeJonge MH. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):845–6

Fungal infections in critically ill patients [editorial] Lipman J, et al. **BMJ** 1997 Aug 2;315(7103):266–7

Enhanced IgE response to Candida albicans in postoperative invasive candidiasis. Savolainen J, et al. **Clin Exp Allergy** 1996 Apr;26(4):452–60

Immunohistochemistry with monoclonal antibody against Candida albicans mannan antigen demonstrates cutaneous Candida granulomas as evidence of Candida sepsis in an immunosuppressed host. Breier F, et al. **Dermatology** 1997; 194(3):293–6

Evaluation of CHROMagar Candida medium for the isolation and presumptive identification of species of Candida of clinical importance. Bernal S, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):201–4

Semiquantitative polymerase chain reaction enzyme immunoassay for diagnosis of disseminated candidiasis. Burnie JP, et al. **Eur J Clin Microbiol Infect Dis** 1997 May; 16(5):346–50

Intraocular candidiasis in candidemic patients [letter; comment] Donahue SP, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):256–7. Comment on: Eur J Clin Microbiol Infect Dis 1996 Jun;15(6):503–6.

Results of culture form colonoscopically obtained specimens for bacteria and fungi in HIV–infected patients with diarrhea. Beaugerie L, et al. **Gastrointest Endosc** 1996 Dec; 44(6):663–6

Study of fungi associated with bronchopulmonary disorders. Gupta BK, et al. **Indian J Med Sci** 1996 Sep;50(9):333–6

Multifocal osteoarthritis due to Candida albicans in a neonate: serum level monitoring of liposomal amphotericin B and literature review. Evdoridou J, et al. **Infection** 1997 Mar–Apr;25(2):112–6 (29 ref.)

Candida (Torulopsis glabrata) liver abscesses eight years after orthotopic liver transplantation. Annunziata GM, et al. **J Clin Gastroenterol** 1997 Apr;24(3):176–9

Comparison between Wako–WB003 and Fungitec G tests for detection of (1–>3)–beta–D–glucan in systemic mycosis. Hossain MA, et al. **J Clin Lab Anal** 1997; 11(2):73–7

Laboratory implementation of a rapid three–stain technique for detection of microorganisms from lower respiratory specimens. Maymind M, et al. **J Clin Lab Anal** 1996; 10(2):104–9

Diagnosis of invasive candidiasis in neutropenic children with cancer by determination of D–arabinitol/L–arabinitol ratios in urine. Christensson B, et al. **J Clin Microbiol** 1997 Mar; 35(3):636–40

Diagnosis of disseminated candidiasis by measurement of urine D–arabinitol/L–arabinitol ratio. Lehtonen L, et al. **J Clin Microbiol** 1996 Sep;34(9):2175–9

Enolase antigen, mannan antigen, Cand–Tec antigen, and beta–glucan in patients with candidemia. Mitsutake K, et al. **J Clin Microbiol** 1996 Aug;34(8):1918–21

Rapid identification of Candida species in blood cultures by a clinically useful PCR method. Shin JH, et al. **J Clin Microbiol** 1997 Jun;35(6):1454–9

Pruritic papular eruptions and candidiasis due to HIV infection. Uchigasaki S, et al. **J Dermatol** 1996 Aug; 23(8):572–6

Hospital–acquired candida and aspergillus pneumonia—diagnostic approaches and clinical findings. von Eiff M, et al. **J Hosp Infect** 1996 Jan;32(1):17–28

Dark ring sign: finding in patients with fungal liver lesions and transfusional hemosiderosis undergoing treatment with antifungal antibiotics. Kelekis NL, et al. **Magn Reson Imaging** 1996;14(6):615–8

63–year–old woman with fever and right flank pain. Porrata LF, et al. **Mayo Clin Proc** 1996 Oct;71(10):1011–4

Clinical and laboratory diagnosis of invasive candida infection in neutropenic patients. Kalin M, et al. **Med Oncol** 1996 Dec;13(4):223–31 (85 ref.)

Utility of Albicans ID plate for rapid identification of Candida albicans in clinical samples. Rapid identification of Candida albicans. Contreras I, et al. **Mycopathologia** 1996;136(1):17–20

Characterization of specific anti–Candida IgM, IgA and IgE: diagnostic value in deep–seated infections. Aubert D, et al. **Mycoses** 1996 May–Jun;39(5–6):169–76

Detection of Candida albicans DNA with a yeast–specific primer system by polymerase chain reaction. Wildfeuer A, et al. **Mycoses** 1996 Sep–Oct;39(9–10):341–6

MRI of pituitary abscess: two cases and review of the literature. Wolansky LJ, et al. **Neuroradiology** 1997 Jul; 39(7):499–503 (35 ref.)

Chronic Candida albicans otitis media in children with immunodeficiency. McDonald JA, et al. **Pediatr Infect Dis J** 1997 May;16(5):529–31

Retroperitoneal fungal abscess presenting as superior mesenteric artery syndrome. Siddiqui MN, et al. **Postgrad Med J** 1996 Jul;72(849):433–4

Invasive Candida norvegensis infection in immunocompromised patients. Nielsen H, et al. **Scand J Infect Dis** 1996;28(3):311–2

Severe candida cystitis with perforation of the urinary bladder. Aanestad O, et al. **Scand J Urol Nephrol** 1997 Jun; 31(3):311–2

Candidal renal papillary necrosis: report of a case and review. Chiew YF. **Singapore Med J** 1996 Feb;37(1):119–21 (14 ref.)

Candida osteomyelitis and disc space infection of the lumbar spine. Munk PL, et al. **Skeletal Radiol** 1997 Jan;26(1):42–6 (17 ref.)

Gallbladder and biliary tract candidiasis. Diebel LN, et al. **Surgery** 1996 Oct;120(4):760–4; discussion 764–5

Procalcitonin: a new marker for differential diagnosis of acute rejection and bacterial infection in heart transplantation. Staehler M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):584–5

[A direct microscopic preparation of the gastric aspirate is an aid in the diagnosis of congenital neonatal infection] Shopova E. **Akush Ginekol (Sofiia)** 1996;35(3):17–9 (Eng. Abstr.) **(Bul)**

[Mycophobia—a new disease?] Seebacher C. **Mycoses** 1996; 39 Suppl 1:30–2 (Eng. Abstr.) **(Ger)**

[Fungi in feces, fungi in the intestines—therapeutic consequences?] Rösch W. **Versicherungsmedizin** 1996 Dec 1;48(6):215–7 (4 ref.) (Eng. Abstr.) **(Ger)**

[Case of allergic bronchopulmonary mycosis with positive result of intradermal candida test] Yuasa K. **Jpn J Antibiot** 1997 Jan;50(1):58–60; discussion 61, 75–6 **(Jpn)**

[Intracranial fungal granuloma with CSF space dissemination: a case report] Zheng L, et al. **No Shinkei Geka** 1996 Apr; 24(4):389–92 (Eng. Abstr.) **(Jpn)**

[Immunodiagnosis and blood biochemical diagnosis of visceral candidiasis and the cutoff limits of positive] Kume H, et al. **Rinsho Byori** 1996 Jun;44(6):505–11 (21 ref.) (Eng. Abstr.) **(Jpn)**

[The antigen (CANDTEC antigen) detected by CAND TEC test for diagnosis of candidiasis] Mitsuya M, et al. **Rinsho Byori** 1996 Jun;44(6):512–7 (Eng. Abstr.) **(Jpn)**

[Specific infections of the kidney] Hirose T. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):254–7 (6 ref.) **(Jpn)**

[Utility of Fluoroplate Candida for the rapid identification of Candida albicans] Quindós G, et al. **Enferm Infecc Microbiol Clin** 1996 Dec;14(10):586–9 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Orally administered amphotericin B in the treatment of oral candidiasis in HIV–infected patients caused by azole–resistant Candida albicans [letter] Nguyen MT, et al. **AIDS** 1996 Dec;10(14):1745–7

Renal tolerance with the use of intralipid–amphotericin B in low–birth–weight neonates. Friedlich PS, et al. **Am J Perinatol** 1997 Aug;14(7):377–83

Timing of treatment for nonneutropenic patients colonized with Candida. Solomkin JS. **Am J Surg** 1996 Dec; 172(6A):44S–48S (62 ref.)

Amphotericin B–associated hypertension. Le Y, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):765–7

Is there a therapeutic or pharmacokinetic rationale for amphotericin B dosing in systemic Candida infections? Nagata MP, et al. **Ann Pharmacother** 1996 Jul–Aug; 30(7–8):811–8 (58 ref.)

Comparison of fluconazole and amphotericin B for treatment of experimental Candida albicans endocarditis in rabbits. Chemlal K, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):263–6

Efficacy of D0870 treatment of experimental Candida vaginitis. Fidel PL Jr, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1455–9

Treatment of murine disseminated candidiasis with L–743,872. Graybill JR, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1775–7

Bleomycin therapy of experimental disseminated candidiasis in mice. Graybill JR, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):816–8

Efficacy of ER–30346, a novel oral triazole antifungal agent, in experimental models of aspergillosis, candidiasis, and cryptococcosis. Hata K, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2243–7

Efficacy of continuous flucytosine infusion against Candida lusitaniae in experimental hematogenous murine candidiasis. Karyotakis NC, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2907–8

Isolation and characterization of fluconazole– and amphotericin B–resistant Candida albicans from blood of two patients with leukemia. Nolte FS, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):196–9

Combination therapy with amphotericin B and fluconazole against invasive candidiasis in neutropenic–mouse and infective–endocarditis rabbit models. Sanati H, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1345–8

Evaluation of renal toxicity and antifungal activity of free and liposomal amphotericin B following a single intravenous dose to diabetic rats with systemic candidiasis. Wasan KM, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1806–10

Effects of amphotericin B incorporated into liposomes and in lipid suspensions in the treatment of murine candidiasis. Kretschmar M, et al. **Arzneimittelforschung** 1996 Jul; 46(7):711–5

Fungal infections in patients undergoing bone marrow transplantation: an approach to a rational management protocol. Castagnola E, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:97–106 (41 ref.)

Onychomycosis due to Scopulariopsis brevicaulis: clinical features and response to systemic antifungals. Tosti A, et al. **Br J Dermatol** 1996 Nov;135(5):799–802

Comparison of itraconazole and ketoconazole in HIV–positive patients with oropharyngeal or esophageal candidiasis.Human Immunodeficiency Virus Itraconazole Ketoconazole Project Group. de Repentigny L, et al. **Chemotherapy** 1996 Sep–Oct;42(5):374–83

Fluconazole versus amphotericin B in the treatment of esophageal candidiasis in cancer patients. Lake DE, et al. **Chemotherapy** 1996 Jul–Aug;42(4):308–14

Fluconazole vs itraconazole–flucytosine association in the treatment of esophageal candidiasis in AIDS patients. A double–blind, multicenter placebo–controlled study. The Candida Esophagitis Multicenter Italian Study (CEMIS) Group. Barbaro G, et al. **Chest** 1996 Dec;110(6):1507–14

Management of invasive candidal infections: results of a prospective, randomized, multicenter study of fluconazole versus amphotericin B and review of the literature. Anaissie EJ, et al. **Clin Infect Dis** 1996 Nov;23(5):964–72 (31 ref.)

Failure of systemic empirical treatment with amphotericin B to prevent candidemia in neutropenic patients with cancer. Blumberg EA, et al. **Clin Infect Dis** 1996 Mar; 22(3):462–6

International Conference for the Development of a Consensus on the Management and Prevention of Severe Candidal Infections [see comments] Edwards JE Jr, et al. **Clin Infect Dis** 1997 Jul;25(1):43–59 (89 ref.). Comment in: Clin Infect Dis 1997 Jul;25(1):60–2.

Successful treatment of fungal prosthetic valve endocarditis: case report and review [see comments] Gilbert HM, et al. **Clin Infect Dis** 1996 Feb;22(2):348–54 (52 ref.). Comment in: Clin Infect Dis 1996 Dec;23(6):1338–40.

Can we agree on the treatment of candidiasis? [editorial; comment] Graybill JR. **Clin Infect Dis** 1997 Jul;25(1):60–2 . Comment on: Clin Infect Dis 1997 Jul;25(1):43–59.

Fluconazole monotherapy for candidal meningitis in a premature infant. Gürses N, et al. **Clin Infect Dis** 1996 Sep; 23(3):645–6

Oral azoles versus bladder irrigation with amphotericin B for the treatment of fungal urinary tract infections [letter; comment] [see comments] Johnson JR. **Clin Infect Dis** 1996 Aug;23(2):416. Comment on: Clin Infect Dis 1996 Jan;22(1):30–5. Comment in: Clin Infect Dis 1997 Jun;24(6):1284–5.

Resistance to fluconazole and amphotericin B in a patient with AIDS who was being treated for candidal esophagitis. Le TP, et al. **Clin Infect Dis** 1996 Sep;23(3):649–50

Development of interpretive breakpoints for antifungal susceptibility testing: conceptual framework and analysis of in vitro–in vivo correlation data for fluconazole, itraconazole, and candida infections. Subcommittee on Antifungal Susceptibility Testing of the National Committee for Clinical Laboratory Standards [see comments] Rex JH, et al. **Clin Infect Dis** 1997 Feb; 24(2):235–47 (123 ref.). Comment in: Clin Infect Dis 1997 Feb;24(2):248–9.

Treatment of Torulopsis glabrata vaginitis: retrospective review of boric acid therapy. Sobel JD, et al. **Clin Infect Dis** 1997 Apr;24(4):649–52

Emergence of resistance to amphotericin B during therapy

for Candida glabrata infection in an immunocompetent host. Sterling TR, et al. **Clin Infect Dis** 1996 Jul;23(1):187–8

Ultra-long amphotericin B therapy for hepatosplenic candidiasis complicating acute promyelocytic leukaemia [letter] Lai ST, et al. **Clin Lab Haematol** 1996 Mar; 18(1):62–3

Nystatin prophylaxis [letter; comment] Dubé MP, et al. **Clin Microbiol Rev** 1997 Apr;10(2):368. Comment on: Clin Microbiol Rev 1996 Oct;9(4):499–511.

Candida albicans keratitis treated successfully with itraconazole. Klotz SA, et al. **Cornea** 1996 Jan;15(1):102–4

Topical fluconazole therapy of Candida keratitis. Panda A, et al. **Cornea** 1996 Jul;15(4):373–5

Administration of amphotericin B in lipid emulsion [letter; comment] Devlin J, et al. **Crit Care Med** 1997 May; 25(5):892; discussion 893–4. Comment on: Crit Care Med 1996 Aug;24(8):1311–5.

Administration of amphotericin B in lipid emulsion [letter; comment] O'Neil MG, et al. **Crit Care Med** 1997 May; 25(5):892–3; discussion 893–4. Comment on: Crit Care Med 1996 Aug;24(8):1311–5.

Candida: a review of clinical experience with Lamisil. Zaias N. **Dermatology** 1997;194 Suppl 1:10–3 (5 ref.)

Lichen planus esophagitis with secondary candidiasis: successful combination treatment with ketoconazole and a corticosteroid. Ali A, et al. **Endoscopy** 1996 Jun;28(5):460

Azole resistance in Candida. Denning DW, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):261–80 (163 ref.)

Selection of Candida glabrata strains with reduced susceptibility to azoles in four liver transplant patients with invasive candidiasis. Fortún J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):314–8

Multicenter randomized trial of fluconazole versus amphotericin B for treatment of candidemia in non-neutropenic patients. Canadian Candidemia Study Group. Phillips P, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):337–45

Fluconazole treatment of candidal infections caused by non-albicans Candida species. van 't Wout JW. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):238–42

Antifungal agents in neonatal systemic candidiasis [letter] van den Anker JN. **Eur J Pediatr** 1997 Aug;156(8):666

Fluconazole versus itraconazole for candida esophagitis in acquired immunodeficiency syndrome. Candida Esophagitis. Barbaro G, et al. **Gastroenterology** 1996 Nov; 111(5):1169–77

Fluconazole in the management of neonatal systemic candidiasis. Narang A, et al. **Indian Pediatr** 1996 Oct; 33(10):823–6

A randomized study comparing fluconazole with amphotericin B/5-flucytosine for the treatment of systemic Candida infections in intensive care patients. Abele-Horn M, et al. **Infection** 1996 Nov–Dec;24(6):426–32

Multifocal osteoarthritis due to Candida albicans in a neonate: serum level monitoring of liposomal amphotericin B and literature review. Evdoridou J, et al. **Infection** 1997 Mar–Apr;25(2):112–6 (29 ref.)

Candida tropicalis arthritis in a patient with acute myeloid leukemia successfully treated with fluconazole: case report and review of the literature. Weers-Pothoff G, et al. **Infection** 1997 Mar–Apr;25(2):109–11 (25 ref.)

Fluconazole in Candida albicans sepsis during pregnancy: case report and review of the literature. Wiesinger EC, et al. **Infection** 1996 May–Jun;24(3):263–6

Benzydamine inhibits the release of tumor necrosis factor-alpha and monocyte chemotactic protein-1 by Candida albicans-stimulated human peripheral blood cells. Sironi M, et al. **Int J Clin Lab Res** 1997;27(2):118–22

Rationalizing prescribing for oral and oesophageal candidiasis. Taylor CB, et al. **Int J STD AIDS** 1996 Oct; 7(6):452

Candidemia in non-neutropenic critically ill patients: analysis of prognostic factors and assessment of systemic antifungal therapy. Study Group of Fungal Infection in the ICU. Nolla-Salas J, et al. **Intensive Care Med** 1997 Jan; 23(1):23–30

Treatment of Candida nail infection with terbinafine. Segal R, et al. **J Am Acad Dermatol** 1996 Dec;35(6):958–61

In-vivo activity and tolerance of conventional formulation versus fat emulsion formulation of amphotericin B in experimental disseminated candidiasis in neutropenic rabbits. Chavanet P, et al. **J Antimicrob Chemother** 1997 Mar;39(3):427–30

Candida infections in the surgical intensive care unit [letter] Fass RJ, et al. **J Antimicrob Chemother** 1996 Nov; 38(5):915–6

The value of a single amphotericin B bladder washout in candiduria. Fong IW. **J Antimicrob Chemother** 1995 Dec; 36(6):1067–71

Effect of pentoxifylline on the course of systemic Candida albicans infection in mice. Louie A, et al. **J Antimicrob Chemother** 1996 May;37(5):943–54

ZD0870 treatment of murine candidiasis caused by fluconazole resistant isolates of Candida albicans. Najvar LK, et al. **J Antimicrob Chemother** 1996 Oct;38(4):671–7

Fluconazole therapy for postoperative Candida infections and in coccidioidomycosis. Thadepalli H, et al. **J Chemother** 1995 Nov;7 Suppl 4:193–5

Antimicrobial evaluation of some plants used in Mexican traditional medicine for the treatment of infectious diseases. Navarro V, et al. **J Ethnopharmacol** 1996 Sep;53(3):143–7

In situ management and molecular analysis of candidaemia related to a totally implantable vascular access in a cystic fibrosis patient. Bonacorsi SP, et al. **J Infect** 1996 Jul; 33(1):49–51

Induction of protective Th1 responses to Candida albicans by antifungal therapy alone or in combination with an interleukin-4 antagonist. Cenci E, et al. **J Infect Dis** 1997 Jul;176(1):217–26

A randomized, double-blind comparison of itraconazole oral solution and fluconazole tablets in the treatment of esophageal candidiasis. Wilcox CM, et al. **J Infect Dis** 1997 Jul;176(1):227–32

Fluconazole therapy of oropharyngeal candidiasis in a patient with multiple endocrine failure does not correlate with Candida albicans susceptibility to fluconazole in vitro. Field EA, et al. **J Med Vet Mycol** 1996 Jun–Jul;34(3):205–8

Discrepancy between in vitro and in vivo antifungal activity of albendazole. Hardin TC, et al. **J Med Vet Mycol** 1997 May–Jun;35(3):153–8

Plasma and tissue concentrations of fluconazole and their correlation to breakpoints. Pittrow L, et al. **Mycoses** 1997 Jan–Feb;40(1–2):25–32 (42 ref.)

A new pharmaceutical concept for the treatment of oropharyngeal and oesophageal candidosis with fluconazole. Wildfeuer A, et al. **Mycoses** 1996 Sep–Oct; 39(9–10):357–60

Successful therapy of Candida albicans arthritis with a sequential intravenous amphotericin B and oral fluconazole regimen. Barson WJ, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1119–22 (42 ref.)

The fluconazole era: management of hematogenously disseminated candidiasis in the nonneutropenic patient. Kramer KM, et al. **Pharmacotherapy** 1997 May–Jun; 17(3):538–48 (44 ref.)

Candida peritonitis treated with liposomal amphotericin B [letter] Ng SY, et al. **Postgrad Med J** 1996 Oct; 72(852):636–7

Fatal outcome of disseminated candidosis after allogeneic bone marrow transplantation under treatment with liposomal and conventional amphotericin-B. A report of 4 cases with determination of the Mic values. Krüger W, et al. **Scand J Infect Dis** 1996;28(3):313–6

Neonatal Torulopsis glabrata fungemia. Reich JD, et al. **South Med J** 1997 Feb;90(2):246–8 (15 ref.)

Single-organism model of host defense against infection: a novel immunotoxicologic approach to evaluate immunomodulatory drugs [see comments] Herzyk DJ, et al. **Toxicol Pathol** 1997 Jul–Aug;25(4):351–62. Comment in: Toxicol Pathol 1997 Jul–Aug;25(4):419–20.

Update on antifungal resistance. Klepser ME, et al. **Trends Microbiol** 1997 Sep;5(9):372–5 (51 ref.)

[A multiple center clinical trial on fluconazole for deep-seated fungal infections] Liang D, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):823–6 (Eng. Abstr.) **(Chi)**

[Systematic therapy of vaginal mycoses. Three quarters of women are affected] **Gynakologe** 1994 Jun;27(3 Suppl):1–4 **(Ger)**

[Clinical fluconazole and itraconazole resistance of oro-gastrointestinal candidiasis in a patient with AIDS] Tebbe B, et al. **Hautarzt** 1996 Feb;47(2):136–9 (Eng. Abstr.) **(Ger)**

[Cyanotic Raynaud phenomenon as a side effect of Amphotericin B] Zernikow B, et al. **Klin Padiatr** 1996 Mar–Apr;208(2):53–5 (Eng. Abstr.) **(Ger)**

[Itraconazole suspension in the treatment of HIV-infected patients with fluconazole-resistant oropharyngeal candidiasis and esophagitis] Eichel M, et al. **Mycoses** 1996; 39 Suppl 1:102–6 (Eng. Abstr.) **(Ger)**

[Plasma and tissue concentrations of fluconazole: discussion of the breakpoint problem] Pittrow L, et al. **Mycoses** 1996; 39 Suppl 2:58–65 (44 ref.) (Eng. Abstr.) **(Ger)**

[A new pharmaceutical concept for the therapy of oropharyngeal and esophageal candidiasis with fluconazole] Wildfeuer A, et al. **Mycoses** 1996;39 Suppl 1:123–6 (Eng. Abstr.) **(Ger)**

[The efficacy of the eubiotic bifacide when used in the combined antibacterial therapy of newborn infants with infectious-inflammatory diseases] Kushnareva MV, et al. **Antibiot Khimioter** 1996;41(11):28–32 (Eng. Abstr.) **(Rus)**

[Use of Diflucan in the treatment of chronic and recurrent candidosis with involvement of the esophagus] Barantsevich EP, et al. **Klin Med (Mosk)** 1996;74(5):55–7 (Eng. Abstr.) **(Rus)**

[The comparative characteristics of the effect of immunomodulators on the indices of body nonspecific protection and on the structure of the populations of the causative agents in mixed infections] Shatalova EV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):54–8 (Eng. Abstr.) **(Rus)**

[Liposomal amphotericin B in the treatment of systemic fungal infection in the neonate. The results of one case] Baquero Artigao F, et al. **An Esp Pediatr** 1996 Aug; 45(2):209–12 **(Spa)**

[Systemic candidiasis in heroin addicts: therapeutic considerations (letter; comment)] Márquez de Prado Urquia M, et al. **An Med Interna** 1997 Mar;14(3):155–6. Comment on: An Med Interna 1994 Nov;11(11):537–40. **(Spa)**

[Curative treatment with fluconazole in 5 cases of invasive candidiasis] Martinez-Marcos FJ, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):541–4 (Eng. Abstr.) **(Spa)**

[Emergency of fluconazole-resistant infections by Candida krusei and Candida glabrata in neutropenic patients (letter)] Piemonte P, et al. **Rev Med Chil** 1996 Sep;124(9):1149 **(Spa)**

[Fluconazole in treatment of urinary candidiasis. Experience with 24 patients] Thompson L, et al. **Rev Med Chil** 1995 Dec;123(12):1505–9 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Role of aspartic proteases in disseminated Candida albicans infection in mice. Fallon K, et al. **Infect Immun** 1997 Feb; 65(2):551–6

Seroreactivities of proteinases of Candida albicans, C. tropicalis, and C. parapsilosis in sera from various Candida species-infected mice. Lee KH, et al. **Yonsei Med J** 1997 Jun;38(3):178–86

EPIDEMIOLOGY

Candida parapsilopsis fungemias in bone marrow transplant recipients: implications for azole prophylactic therapy [letter; comment] López-Jiménez J, et al. **Blood** 1997 May 1;89(9):3491–2. Comment on: Blood 1996 Jan 15;87(2):838–9.

Hepatosplenic candidiasis in patients with acute leukemia: incidence and prognostic implications. Anttila VJ, et al. **Clin Infect Dis** 1997 Mar;24(3):375–80

Nosocomial Candida. Epidemiology, transmission, and prevention. Wright WL, et al. **Infect Dis Clin North Am** 1997 Jun;11(2):411–25 (67 ref.)

Candidemia in non-neutropenic critically ill patients: analysis of prognostic factors and assessment of systemic antifungal therapy. Study Group of Fungal Infection in the ICU. Nolla-Salas J, et al. **Intensive Care Med** 1997 Jan; 23(1):23–30

Pancreatic transplantation after thirty years: still room for improvement [editorial; comment] Bartlett ST. **J Am Coll Surg** 1996 Oct;183(4):408–10. Comment on: J Am Coll Surg 1996 Oct;183(4):307–16.

Intra-abdominal fungal infections after pancreatic transplantation: incidence, treatment, and outcome [see comments] Benedetti E, et al. **J Am Coll Surg** 1996 Oct; 183(4):307–16. Comment in: J Am Coll Surg 1996 Oct;183(4):408–10.

Techniques for investigation of an apparent outbreak of infections with Candida glabrata. Arif S, et al. **J Clin Microbiol** 1996 Sep;34(9):2205–9

Diarrhoea associated with Candida spp.: incidence and seasonal variation. Chaudhury A, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):110–2

Nursery outbreak of neonatal fungal arthritis treated with fluconazole. Merchant RH, et al. **J Trop Pediatr** 1997 Apr; 43(2):106–8

Candidiasis in cancer patients. Zai S, et al. **JPMA J Pak Med Assoc** 1997 Jul;47(7):191–2

Retrospective analysis of yeast colonization and infections in paediatric bone marrow transplant recipients. Hoppe JE, et al. **Mycoses** 1997 Jan–Feb;40(1–2):47–54

Prevalence of Candida species in hospital-acquired urinary tract infections in a neonatal intensive care unit. Phillips JR, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):190–4

Candida parapsilosis bloodstream infections in neonatal intensive care unit patients: epidemiologic and laboratory confirmation of a common source outbreak. Welbel SF, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):998–1002

Candidemia in acute leukemia patients. Ribeiro P, et al. **Support Care Cancer** 1997 May;5(3):249–51

Infectious complications after the use of double J ureteral stents. Eschwège P, et al. **Transplant Proc** 1996 Oct; 28(5):2833

[The possibilities for using combined methods in typing Candida albicans for establishing epidemiological relationships] Degteva GK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb; (1):27–30 (Eng. Abstr.) **(Rus)**

[An outbreak of nosocomial candidiasis in a hematology ward] Liubimova AV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):23–6 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Candida arthritis after total knee arthroplasty—a case of successful treatment without prosthesis removal. Fukasawa N, et al. **Acta Orthop Scand** 1997 Jun;68(3):306–7

Deep Candida infection in children with leukaemia: clinical presentations, diagnosis and outcome. Klingspor L, et al. **Acta Paediatr** 1997 Jan;86(1):30–6

Fatal fungemia resulting from an infected transjugular intrahepatic portosystemic shunt stent. Schiano TD, et al. **Am J Gastroenterol** 1997 Apr;92(4):709–10 (9 ref.)

Peritoneal and pleural infection following placement of an internal biliary stent for a large bile leak. Weiss K, et al. **Am J Gastroenterol** 1997 Feb;92(2):347–8 (9 ref.)

Candida tropicalis multifocal endophthalmitis as the only initial manifestation of pacemaker endocarditis. Shmuely H, et al. **Am J Ophthalmol** 1997 Apr;123(4):559–60

Bilateral Candida parapsilosis endophthalmitis. Wong VK, et al. **Arch Ophthalmol** 1997 May;115(5):670–2

Candida glabrata chorioamnionitis following in vitro fertilization and embryo transfer. Sfameni SF, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):88–91

Deep Candida infection in children receiving allogeneic bone

marrow transplants: incidence, risk factors and diagnosis. Klingspor L, et al. **Bone Marrow Transplant** 1996 Jun; 17(6):1043–9

Left ventricular assist device infection is associated with increased mortality but is not a contraindication to transplantation. Herrmann M, et al. **Circulation** 1997 Feb 18;95(4):814–7

Rising incidence of Candida parapsilosis fungemia in patients with hematologic malignancies: clinical aspects, predisposing factors, and differential pathogenicity of the causative strains. Girmenia C, et al. **Clin Infect Dis** 1996 Sep;23(3):506–14

Spondylodiskitis due to Candida albicans: report of two patients who were successfully treated with fluconazole and review of the literature. Hennequin C, et al. **Clin Infect Dis** 1996 Jul;23(1):176–8 (18 ref.)

Breakthrough candidemia in neutropenic patients. Nucci M, et al. **Clin Infect Dis** 1997 Feb;24(2):275–6

Chronic meningitis caused by Candida albicans in a liver transplant recipient: usefulness of the polymerase chain reaction for diagnosis and for monitoring treatment. Ralph ED, et al. **Clin Infect Dis** 1996 Jul;23(1):191–2

Editorial response: catheters and candidemia. Rex JH. **Clin Infect Dis** 1996 Mar;22(3):467–70

Infectious crystalline keratopathy caused by Candida parapsilosis. Rhem MN, et al. **Cornea** 1996 Sep;15(5):543–5

Candida cholecystitis as an unusual complication of endoscopic retrograde cholangiography. Takano H, et al. **Endoscopy** 1996 Nov;28(9):790–1

Systemic candidiasis in cardiac surgery patients. Michalopoulos A, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):728–31

Fetal Candida infection associated with an intrauterine contraceptive device. Marelli G, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1–2):209–12

Early onset systemic Candida infection in extremely preterm neonates. Melville C, et al. **Eur J Pediatr** 1996 Oct; 155(10):904–6

Juvenile diabetes mellitus masquerading as disseminated candidiasis [letter] Krishnan J, et al. **Indian Pediatr** 1997 Mar;34(3):257–8

Reduced virulence of Candida albicans MKC1 mutants: a role for mitogen-activated protein kinase in pathogenesis. Diez-Orejas R, et al. **Infect Immun** 1997 Feb;65(2):833–7

Hyperlipoproteinemia enhances susceptibility to acute disseminated Candida albicans infection in low-density-lipoprotein-receptor-deficient mice. Netea MG, et al. **Infect Immun** 1997 Jul;65(7):2663–7

Avirulence of Candida albicans FAS2 mutants in a mouse model of systemic candidiasis. Zhao XJ, et al. **Infect Immun** 1997 Feb;65(2):829–32

Candida overgrowth after treatment of duodenal ulcer. A comparison of cimetidine, famotidine, and omeprazole. Goenka MK, et al. **J Clin Gastroenterol** 1996 Jul;23(1):7–10

Infective dyspepsia in a heart transplant recipient. Huwez FU, et al. **J Gastroenterol** 1996 Dec;31(6):848–50

Mycotic aortic aneurysms after orthotopic heart transplantation: a three-case report and review of the literature. Knosalla C, et al. **J Heart Lung Transplant** 1996 Aug;15(8):827–39 (27 ref.)

From the Centers for Disease Control and Prevention. Candida albicans endocarditis with a contaminated aortic valve allograft—California, 1996. **JAMA** 1997 Apr 23–30; 277(16):1271–2

Candida albicans endocarditis associated with a contaminated aortic valve allograft—California, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Mar 28;46(12):261–3

Role of Candida in indirect pathogenesis of antibiotic associated diarrhoea in infants. Ponnuvel KM, et al. **Mycopathologia** 1996;135(3):145–7

Microbial keratitis in patients infected with the human immunodeficiency virus. Hemady RK. **Ophthalmology** 1995 Jul;102(7):1026–30

Posthysteroscopy Candida glabrata peritonitis in a patient on CAPD [letter] Maruyama H, et al. **Perit Dial Int** 1997 Jul–Aug;17(4):404–5

Post-traumatic costochondritis caused by Candida albicans. Aetiology, diagnosis and treatment. Heckenkamp J, et al. **Scand Cardiovasc J** 1997;31(3):165–7 (12 ref.)

Fungemia in cancer patients undergoing chemotherapy versus surgery: risk factors, etiology and outcome. Kralovicova K, et al. **Scand J Infect Dis** 1997;29(3):301–4

Risk factors of invasive Candida and non-Candida fungal infections after liver transplantation. Patel R, et al. **Transplantation** 1996 Oct 15;62(7):926–34

Preterm birth and intraamniotic infection with Candida albicans in a woman with previous cervical conization. Ginzel A, et al. **Zentralbl Gynakol** 1997;119(6):284–5

[Bilateral candida endophthalmitis in 2 i. v. drug-dependent patients with oral L-methadone substitution] Möller M, et al. **Klin Monatsbl Augenheilkd** 1997 Jul;211(1):53–6 (Eng. Abstr.) **(Ger)**

[Candidiasis of the stomach in endocrine disorders] Antonov VB, et al. **Klin Med (Mosk)** 1996;74(2):49–50 **(Rus)**

GENETICS

UCSF gene discover opens new window on mechanism of yeast infection [news] **Compr Ther** 1997 Sep;23(9):621–2

Evidence that two independent host genes influence the severity of tissue damage and susceptibility to acute pyelonephritis in murine systemic candidiasis. Ashman RB, et al. **Microb Pathog** 1997 Mar;22(3):187–92

IMMUNOLOGY

Neutrophils producing interleukin-10 antagonize the effect of interleukin-12 in mice with candidiasis. Mencacci A, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:394–6

Preserved neutrophil response to Candida albicans stimulation in AIDS patients with candida esophagitis. Jensen T, et al. **APMIS** 1996 Jul–Aug;104(7–8):591–7

Effect of d-fenfluramine on the local immune response to the opportunistic microbial pathogen Candida albicans. Mathews HL, et al. **Behav Brain Res** 1996;73(1–2):369–74

Candida antigen titre dilution and death after injury. Rosemurgy AS 2nd, et al. **Br J Surg** 1997 Jun;84(6):771–4

Biological role of Th cell subsets in candidiasis. Romani L, et al. **Chem Immunol** 1996;63:115–37 (124 ref.)

Perioperative variation in phagocytic activity against Candida albicans measured by a flow-cytometric assay in cardiovascular-surgery patients. Tran TL, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):447–51

Enhanced IgE response to Candida albicans in postoperative invasive candidiasis. Savolainen J, et al. **Clin Exp Allergy** 1996 Apr;26(4):452–60

A glucocorticoid antagonist, mifepristone affects anti-Candida activity of murine neutrophils in the presence of prednisolone in vitro and experimental candidiasis of prednisolone-treated mice in vivo. Abe S, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):311–6

Early inflammatory responses to Candida albicans infection in inbred and complement-deficient mice. Fulurija A, et al. **FEMS Immunol Med Microbiol** 1996 Jun;14(2–3):83–94

Importance of beta2-microglobulin in murine resistance to mucosal and systemic candidiasis. Balish E, et al. **Infect Immun** 1996 Dec;64(12):5092–7

CD4+ T-helper-cell responses in mice with low-level Candida albicans infection. Mencacci A, et al. **Infect Immun** 1996 Dec;64(12):4907–14

Gamma interferon is not essential in host defense against disseminated candidiasis in mice. Qian Q, et al. **Infect Immun** 1997 May;65(5):1748–53

Candida endocarditis in a child with hyperimmunoglobulinemia E syndrome. Yates AB, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):770–2

Anti-infectious state induced by chronic experimental infection with Enterococcus faecium. Monari C, et al. **J Chemother** 1995 Nov;7 Suppl 4:93–5

B cell-independent selection of memory T cells after mucosal immunization with Candida albicans. Jones-Carson J, et al. **J Immunol** 1997 May 1;158(9):4328–35

An immunoregulatory role for neutrophils in CD4+ T helper subset selection in mice with candidiasis. Romani L, et al. **J Immunol** 1997 Mar 1;158(5):2356–62

Neutrophil production of IL-12 and IL-10 in candidiasis and efficacy of IL-12 therapy in neutropenic mice. Romani L, et al. **J Immunol** 1997 Jun 1;158(11):5349–56

Early T cell unresponsiveness in mice with candidiasis and reversal by IL-2: effect on T helper cell development. Spaccapelo R, et al. **J Immunol** 1997 Mar 1;158(5):2294–302

Assessment of a mouse model of neutropenia and the effect of an anti-candidiasis monoclonal antibody in these animals. Han Y, et al. **J Infect Dis** 1997 May;175(5):1169–75

Iron overload alters innate and T helper cell responses to Candida albicans in mice. Mencacci A, et al. **J Infect Dis** 1997 Jun;175(6):1467–76

Phagocytosis of viable Candida albicans by alveolar macrophages: lack of opsonin function of surfactant protein A. Rosseau S, et al. **J Infect Dis** 1997 Feb;175(2):421–8

Infection by Candida albicans inhibits apoptosis of human monocytes and monocytic U937 cells. Heidenreich S, et al. **J Leukoc Biol** 1996 Dec;60(6):737–43

Increased tissue resistance in the nude mouse against Candida albicans without altering strain-dependent differences in susceptibility. Fulurija A, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):197–203

Susceptibility of mice to bacterial and fungal infections after intragastric administration of ebselen. Nozawa R, et al. **J Pharm Pharmacol** 1996 Jan;48(1):64–7

Prophylactic effect of Enterococcus faecalis FK-23 preparation on experimental candidiasis in mice. Satonaka K, et al. **Microbiol Immunol** 1996;40(3):217–22

Kinetics of anti-mannan antibodies useful in confirming invasive candidiasis in immunocompromised patients. van Deventer AJ, et al. **Microbiol Immunol** 1996;40(2):125–31

Macrophages in resistance to candidiasis. Vázquez-Torres A, et al. **Microbiol Mol Biol Rev** 1997 Jun;61(2):170–92 (278 ref.)

Neutrophil depletion increases susceptibility to systemic and vaginal candidiasis in mice, and reveals differences between brain and kidney in mechanisms of host resistance. Fulurija A, et al. **Microbiology** 1996 Dec;142 (Pt 12):3487–96

Characterization of specific anti-Candida IgM, IgA and IgE: diagnostic value in deep-seated infections. Aubert D, et al. **Mycoses** 1996 May-Jun;39(5–6):169–76

Activated CD8+ T cells are involved in elimination of Candida albicans from the livers of mice. Kretschmar M, et al. **Mycoses** 1997 Jan-Feb;40(1–2):41–6

Chronic Candida albicans otitis media in children with immunodeficiency. McDonald JA, et al. **Pediatr Infect Dis J** 1997 May;16(5):529–31

Local and systemic host defense mechanisms against Candida: immunopathology of candidal infections. Maródi L. **Pediatr Infect Dis J** 1997 Aug;16(8):795–801 (80 ref.)

IL12 in Candida albicans infections. Romani L, et al. **Res Immunol** 1995 Sep-Oct;146(7–8):532–8 (31 ref.)

Neutrophils and the adaptive immune response to Candida albicans. Romani L, et al. **Res Immunol** 1996 Oct-Dec; 147(8–9):512–8 (43 ref.)

Pre- and post-therapy blood lymphocyte levels in IgE-negative urticaria, associated with several parasitic or fungal diseases. Voiculescu C, et al. **Roum Arch Microbiol Immunol** 1996 Apr-Jun;55(2):107–17

Single-organism model of host defense against infection: a novel immunotoxicologic approach to evaluate immunomodulatory drugs [see comments] Herzyk DJ, et al. **Toxicol Pathol** 1997 Jul–Aug;25(4):351–62. Comment in: Toxicol Pathol 1997 Jul–Aug;25(4):419–20.

[The characteristics of the immune status of patients with infectious endocarditis] Vorob'eva AM, et al. **Klin Khir** 1995;(2):25–6 **(Rus)**

METABOLISM

Acute-phase proteins in perinatal human plasma. Liberatori S, et al. **Electrophoresis** 1997 Mar-Apr;18(3–4):520–6

Effect of nordihydroguaretic acid and fluconazole on the LTC4/PGE2 ratio in the kidney of mice damaged by Candida albicans. Kuştimur S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):281–3

MICROBIOLOGY

Molecular epidemiology of mucosal candidiasis in HIV-positive women. Dahl KM, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10;13(6):485–91

Incidence and risk of developing fungal prosthetic valve endocarditis after nosocomial candidemia. Nasser RM, et al. **Am J Med** 1997 Jul;103(1):25–32

The epidemiology of hematogenous candidiasis caused by different Candida species [see comments] Abi-Said D, et al. **Clin Infect Dis** 1997 Jun;24(6):1122–8. Comment in: Clin Infect Dis 1997 Jun;24(6):1129–30.

Candida inconspicua, a fluconazole-resistant pathogen in patients infected with human immunodeficiency virus. Baily GG, et al. **Clin Infect Dis** 1997 Jul;25(1):161–3

Torulopsis (Candida) glabrata: a new pathogen found in spinal epidural abscess. Bonomo RA, et al. **Clin Infect Dis** 1996 Mar;22(3):588–9

Isolation of Candida norvegensis from clinical specimens: four case reports. Hood SV, et al. **Clin Infect Dis** 1996 Nov;23(5):1185–7

Cutaneous mucormycosis of the thoracic wall. Hurlé A, et al. **Clin Infect Dis** 1996 Feb;22(2):373–4

Strain variation and antifungal susceptibility among bloodstream isolates of Candida species from 21 different medical institutions. Pfaller MA, et al. **Clin Infect Dis** 1995 Dec;21(6):1507–9

The yeast to hyphal transition following hematogenous candidiasis induces shock and organ injury independent of circulating tumor necrosis factor-alpha. Matuschak GM, et al. **Crit Care Med** 1997 Jan;25(1):111–20

Molecular typing for investigating an outbreak of Candida krusei. Noskin GA, et al. **Diagn Microbiol Infect Dis** 1996 Nov-Dec;26(3–4):117–23

Clearances of Candida albicans-derived alpha- and beta-linked mannose residues in sera from patients with candidiasis. Poulain D, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):16–20

Use of specialised isolation media for recognition and identification of Candida dubliniensis isolates from HIV-infected patients. Schoofs A, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):296–300

Antifungal susceptibility pattern of non-albicans Candida species & distribution of species isolated from Candidaemia cases over a 5 year period. Chakrabarti A, et al. **Indian J Med Res** 1996 Aug;104:171–6

Use of electrophoretic karyotyping in the evaluation of Candida infections in a neonatal intensive-care unit. Vazquez JA, et al. **Infect Control Hosp Epidemiol** 1997 Jan; 18(1):32–7

Reduced virulence of Candida albicans MKC1 mutants: a role for mitogen-activated protein kinase in pathogenesis. Diez-Orejas R, et al. **Infect Immun** 1997 Feb;65(2):833–7

Role of aspartic proteases in disseminated Candida albicans infection in mice. Fallon K, et al. **Infect Immun** 1997 Feb; 65(2):551–6

Avirulence of Candida albicans FAS2 mutants in a mouse model of systemic candidiasis. Zhao XJ, et al. **Infect Immun** 1997 Feb;65(2):829–32

Migration of the fungal pathogen Candida albicans across endothelial monolayers. Zink S, et al. **Infect Immun** 1996 Dec;64(12):5085–91

Funguria in cancer patients: analysis of risk factors, clinical presentation and outcome in 50 patients. Oravcova E, et al. **Infection** 1996 Jul–Aug;24(4):319–23

Changes in clinical features of fungemia in a Japanese University Hospital over a 12-year period [see comments] Mizushima Y, et al. **Intern Med** 1996 Sep;35(9):707–11. Comment in: Intern Med 1996 Sep;35(9):675–6.

Comparative analysis of genetic variability among Candida albicans isolates from different geographic locales by three genotypic methods. Clemons KV, et al. **J Clin Microbiol** 1997 Jun;35(6):1332–6

Assessment of detection of Candida mannoproteinemia as a method to differentiate central venous catheter-related candidemia from invasive disease. Girmenia C, et al. **J Clin Microbiol** 1997 Apr;35(4):903–6

A single strain of Candida albicans associated with separate episodes of fungemia and meningitis. Porter SD, et al. **J Clin Microbiol** 1996 Jul;34(7):1813–4

Increasing fungal isolation from clinical specimens: experience in a university hospital over a decade. Weinberger M, et al. **J Hosp Infect** 1997 Mar;35(3):185–95

Changing pattern of Candida species in a bone marrow transplant patient. Fotedar R, et al. **J Infect** 1996 May; 32(3):243–5

Candida chorioamnionitis: a report of two cases. Berry DL, et al. **J Matern Fetal Med** 1997 May–Jun;6(3):151–4

Taxonomic position of clinical isolates of Candida famata. Nishikawa A, et al. **J Med Vet Mycol** 1996 Nov–Dec; 34(6):411–9

Atypical strains of Candida albicans recovered from AIDS patients. Pujol C, et al. **J Med Vet Mycol** 1997 Mar–Apr; 35(2):115–21

Candida albicans and Escherichia coli are synergistic pathogens during experimental microbial peritonitis. Klaerner HG, et al. **J Surg Res** 1997 Jul 1;70(2):161–5

Gastrointestinal translocation as a possible source of candidemia in an AIDS patient. Colombo AL, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):197–200

Infection of a pancreatic pseudocyst due to Candida albicans. Foust RT. **South Med J** 1996 Nov;89(11):1104–7

[Pathogenicity of fungi in the intestines—current status of the discussion] Scheurlen M. **Fortschr Med** 1996 Sep 20; 114(26):319–21 (20 ref.) (Eng. Abstr.) **(Ger)**

[Comparison of three antifungal susceptibility testing methods for the in vitro testing of Candida isolates from patients with HIV infection] Ruhnke M, et al. **Mycoses** 1996;39 Suppl 2:47–50 (Eng. Abstr.) **(Ger)**

[Clinical aspects and prognosis of candidemia, a 6-year retrospective study] Bregenzer T, et al. **Schweiz Med Wochenschr** 1996 Oct 26;126(43):1829–33 (Eng. Abstr.) **(Ger)**

[Disseminated candidiasis and endophthalmitis caused by Candida tropicalis (letter)] Gratacós J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):451 **(Spa)**

[Acute heart failure in a patient with a metal mitral prosthesis] Alvarez Blanco P, et al. **Rev Clin Esp** 1996 Jul; 196(7):469–70 **(Spa)**

MORTALITY

Mortality associated with systemic candidiasis in children. Pacheco-Ríos A, et al. **Arch Med Res** 1997 Summer; 28(2):229–32

Candidemia in intensive care unit patients: risk factors for mortality. Voss A, et al. **Infection** 1997 Jan–Feb;25(1):8–11

Fatal outcome of disseminated candidosis after allogeneic bone marrow transplantation under treatment with liposomal and conventional amphotericin-B. A report of 4 cases with determination of the Mic values. Krüger W, et al. **Scand J Infect Dis** 1996;28(3):313–6

Analysis of multiple failure time data from an AIDS clinical trial. Finkelstein DM, et al. **Stat Med** 1997 Apr 30; 16(8):951–61

PATHOLOGY

Primary Candida albicans empyema associated with epidural hematomas in craniocervical junction. Duffner F, et al. **Clin Neuropathol** 1997 May–Jun;16(3):143–6

Candida-related changes and ASCUS: a potential trap! Miguel NL Jr, et al. **Diagn Cytopathol** 1997 Jan;16(1):83–6

Candida abscess of the thyroid in a patient with acute lymphocytic leukemia. Da as N, et al. **Eur J Med Res** 1997 Aug 28;2(8):365–6

Fatal diffuse invasive gastrointestinal candidiasis masking as ileus after bone marrow transplantation. DiBaise JK, et al. **J Clin Gastroenterol** 1997 Apr;24(3):165–8

Evidence that two independent host genes influence the severity of tissue damage and susceptibility to acute pyelonephritis in murine systemic candidiasis. Ashman RB, et al. **Microb Pathog** 1997 Mar;22(3):187–92

Experimental study of ascending Candida albicans pyelonephritis focusing on the hyphal form and oxidant injury. Nishikawa T, et al. **Urol Int** 1997;58(3):131–6

PHYSIOPATHOLOGY

Comparative virulence of Candida albicans strains in CFW1 mice and Sprague–Dawley rats. Schmidt A, et al. **Mycoses** 1996 May–Jun;39(5–6):157–60

Studies on hyaluronidase, chondroitin sulphatase, proteinase and phospholipase secreted by Candida species. Shimizu MT, et al. **Mycoses** 1996 May–Jun;39(5–6):161–7

Signal transduction through homologs of the Ste20p and Ste7p protein kinases can trigger hyphal formation in the pathogenic fungus Candida albicans. Leberer E, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13217–22

[Clinical pictures of orointestinal candidiasis. Fiction or reality?] Knoke M. **Mycoses** 1996;39 Suppl 1:40–3 (22 ref.) (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

A prospective randomized control study of oral nystatin prophylaxis for Candida peritonitis complicating continuous ambulatory peritoneal dialysis. Lo WK, et al. **Am J Kidney Dis** 1996 Oct;28(4):549–52

Comparison of fluconazole and amphotericin B in prophylaxis of experimental Candida endocarditis caused by non-C. albicans strains. Bayer AS, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):494–6

Comparative resistance of Candida albicans clinical isolates to fluconazole and itraconazole in vitro and in vivo in a murine model. Valentin A, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1342–5

Augmentation of host defence against bacterial and fungal infections of mice pretreated with the non-pathogenic Escherichia coli strain Nissle 1917. Hockertz S. **Arzneimittelforschung** 1997 Jun;47(6):793–6

Anti Candida activity of induced transferrin in mice immunized with inactivated Candida albicans. Watanabe T, et al. **Biol Pharm Bull** 1997 Jun;20(6):637–40

Long-term suppressive therapy for fungal endocarditis [letter; comment] Baddour LM. **Clin Infect Dis** 1996 Dec; 23(6):1338–40. Comment on: Clin Infect Dis 1996 Feb;22(2):348–54.

International Conference for the Development of a Consensus on the Management and Prevention of Severe Candidal Infections [see comments] Edwards JE Jr, et al. **Clin Infect Dis** 1997 Jul;25(1):43–59 (89 ref.). Comment in: Clin Infect Dis 1997 Jul;25(1):60–2.

The contribution of fluconazole to the changing epidemiology of invasive candidal infections [editorial; comment] White MH. **Clin Infect Dis** 1997 Jun; 24(6):1129–30. Comment on: Clin Infect Dis 1997 Jun;24(6):1122–6.

A protective role of platelet-activating factor in murine candidiasis. Im SY, et al. **Infect Immun** 1997 Apr; 65(4):1321–6

TNF receptors in murine Candida albicans infection: evidence for an important role of TNF receptor p55 in antifungal defense. Steinshamn S, et al. **J Immunol** 1996 Sep 1;157(5):2155–9

Fatal Candida tropicalis fungaemia in a leukaemic patient receiving fluconazole prophylaxis. Barnes AJ, et al. **J Infect** 1996 Jul;33(1):43–5

Prophylactic effect of Enterococcus faecalis FK-23 preparation on experimental candidiasis in mice. Satonaka K, et al. **Microbiol Immunol** 1996;40(3):217–22

Clinical use of oral nystatin in the prevention of systemic candidosis in patients at particular risk. Schäfer-Korting M, et al. **Mycoses** 1996 Sep–Oct;39(9–10):329–39 (35 ref.)

Significant reduction in the number of fungal infections after lung-, heart-lung, and heart transplantation using aerosolized amphotericin B prophylaxis. Reichenspurner H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):627–8

Antibodies against Candida: potential therapeutics? Matthews R, et al. **Trends Microbiol** 1996 Sep;4(9):354–8 (41 ref.)

Liposomes containing Candida albicans ribosomes as a prophylactic vaccine against disseminated candidiasis in mice. Eckstein M, et al. **Vaccine** 1997 Feb;15(2):220–4

[Effect of orally administered polyene antimycotics on the intestinal colonization with yeasts: possibilities and limitations] Blaschke-Hellmessen R, et al. **Mycoses** 1996; 39 Suppl 1:33–9 (17 ref.) (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Postinflammatory hydrocephalus and intracranial mass lesion from Candida in an immunocompetent child. Mason TB 2nd, et al. **J Child Neurol** 1996 Jul;11(4):336–41

Radiological features of fungal typhlitis complicating acute lymphoblastic leukaemia. Kamal M, et al. **Pediatr Radiol** 1997 Jan;27(1):18–9

Imaging in candidiasis. Samuels BI, et al. **Semin Roentgenol** 1996 Jan;31(1):76–82 (38 ref.)

RADIONUCLIDE IMAGING

In-111 labeled leukocyte scintigraphy of infected prosthesis with Candida parapsilosis in a patient without predisposing risk factors. Kinuya S, et al. **Clin Nucl Med** 1996 Nov; 21(11):885–6

RADIOTHERAPY

[The efficacy of high-intensity laser irradiation in the combined treatment of patients with esophageal candidiasis] Preobrazhenskiĭ VN, et al. **Ter Arkh** 1996;68(2):23–4 (Eng. Abstr.) **(Rus)**

SURGERY

Bilateral splenorenal bypass and axillofemoral graft for management of juxtarenal mycotic aneurysm. Marty-Ané C, et al. **Cardiovasc Surg** 1996 Jun;4(3):331–4

Late failure of surgical treatment for bioprosthetic valve endocarditis due to Candida tropicalis. Mansur AJ, et al. **Clin Infect Dis** 1996 Feb;22(2):380–1

Candida infection of a silicone metacarpophalangeal arthroplasty. Dunkley AB, et al. **J Hand Surg [Br]** 1997 Jun;22(3):423–4

Surgical management of catheter tip thrombus: surgical therapy for right atrial thrombus and fungal endocarditis (Candida tropicalis) complicating paediatric sickle-cell disease. Hollingsed MJ, et al. **Perfusion** 1997 May; 12(3):197–201

[A case of successfully treated fungal tricuspid infective endocarditis with repeated pulmonary embolism] Yoshimura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):998–1002 (Eng. Abstr.) **(Jpn)**

THERAPY

Infection of a total knee arthroplasty by Candida parapsilosis. A case report of successful treatment by joint reimplantation with a literature review. Hennessy MJ. **Am J Knee Surg** 1996 Summer;9(3):133–6 (15 ref.)

Oral fluconazole compared with bladder irrigation with amphotericin B for treatment of fungal urinary tract infections in elderly patients [see comments] Jacobs LG, et al. **Clin Infect Dis** 1996 Jan;22(1):30–5. Comment in: Clin Infect Dis 1996 Aug;23(2):416.

Granulocyte colony-stimulating factor-primed leukocyte transfusions in candida tropicalis fungemia in neutropenic patients. Di Mario A, et al. **Haematologica** 1997 May–Jun; 82(3):362–3

Early T cell unresponsiveness in mice with candidiasis and reversal by IL-2: effect on T helper cell development. Spaccapelo R, et al. **J Immunol** 1997 Mar 1;158(5):2294–302

Vitrectomy and systemic fluconazole for treatment of endogenous fungal endophthalmitis. Christmas NJ, et al. **Ophthalmic Surg Lasers** 1996 Dec;27(12):1012–8

Treatment outcomes in a 10-year study of endogenous fungal endophthalmitis. Essman TF, et al. **Ophthalmic Surg Lasers** 1997 Mar;28(3):185–94

[Candida esophageal stenosis in an HIV+ patient. Diagnostic imaging and palliative treatment with balloon catheter] Diotallevi P, et al. **Radiol Med (Torino)** 1996 Jul–Aug; 92(1–2):159–61 **(Ita)**

[Management of obstructive renal candidiasis. Report of a clinical case] Alvarez Kindelán J, et al. **Actas Urol Esp** 1997 Mar;21(3):290–2 (Eng. Abstr.) **(Spa)**

TRANSMISSION

Bacterial colonization and yeast carriage on the hands of nurses [letter] Findik D, et al. **J Hosp Infect** 1996 Nov; 34(3):235–7

Molecular typing of Candida albicans strains isolated from nosocomial candidemia. Branchini ML, et al. **Rev Inst Med Trop Sao Paulo** 1995 Nov–Dec;37(6):483–7

[Maternofetal disseminated candidiasis and high-grade prematurity] Baud O, et al. **Arch Pediatr** 1997 Apr; 4(4):331–4 (Eng. Abstr.) **(Fre)**

ULTRASONOGRAPHY

Candida albicans infected superior vena cava thrombosis detected by transesophageal echocardiography and successfully treated by surgical removal [letter] Van der Vorst M, et al. **Intensive Care Med** 1996 Sep;22(9):997–8

URINE

The value of a single amphotericin B bladder washout in candiduria. Fong IW. **J Antimicrob Chemother** 1995 Dec; 36(6):1067–71

CANDIDIASIS, CHRONIC MUCOCUTANEOUS

HIV-related skin diseases [letter; comment] Zeldis JB. **Lancet** 1996 Nov 30;348(9040):1511–2. Comment on: Lancet 1996 Sep 7;348(9028):659–63.

COMPLICATIONS

Proximal subungual Candida onychomycosis. An unusual manifestation of chronic mucocutaneous candidosis. Baran R. **Br J Dermatol** 1997 Aug;137(2):286–8

Oral squamous cell carcinoma in a young person with candidosis endocrinopathy syndrome: a case report. Firth NA, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):42–4

DRUG THERAPY

Reduced intracellular accumulation of azole antifungal results in resistance in Candida albicans isolate NCPF 3363. Lamb DC, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):189–93

Itraconazole in the treatment of two young brothers with chronic mucocutaneous candidiasis. Tosti A, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):146–8

GENETICS

Chronic mucocutaneous candidosis associated with hypothyroidism: a distinct syndrome? Coleman R, et al. **Br J Dermatol** 1997 Jan;136(1):24–9

IMMUNOLOGY

Production of T-helper cell subsets and cytokines by lymphocytes from patients with chronic mucocutaneous candidiasis. Kobrynski LJ, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):740–5

PREVENTION & CONTROL

Electronic compliance assessment of antifungal prophylaxis for human immunodeficiency virus-infected women. Geletko SM, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1338–41

THERAPY

Transfer factor in chronic mucocutaneous candidiasis. Masi M, et al. **Biotherapy** 1996;9(1–3):97–103

Successful allogeneic bone marrow transplantation in severe

chronic mucocutaneous candidiasis syndrome. Hoh MC, et al. **Bone Marrow Transplant** 1996 Oct;18(4):797–800

CANDIDIASIS, CUTANEOUS

DIAGNOSIS

Punctate pustules in the groin crease. Levine N. **Geriatrics** 1997 Feb;52(2):30

Candida folliculitis mimicking tinea barbae. Kapdağli H, et al. **Int J Dermatol** 1997 Apr;36(4):295–7

[Candida folliculitis: superficial dermatitis or septicemia?] Piérard GE, et al. **Rev Med Liege** 1996 Sep;51(9):565 **(Fre)**

DRUG THERAPY

Open label trial of the efficacy and tolerability of Lamisil (Terbinafine) 500 mg once daily in the treatment of onychomycosis due to candida. Zaidi Z, et al. **JPMA J Pak Med Assoc** 1996 Nov;46(11):258–60

ETIOLOGY

Myeloperoxidase deficiency manifesting as pustular candidal dermatitis. Nguyen C, et al. **Clin Infect Dis** 1997 Feb; 24(2):258–60

Toxic sock syndrome. Mueller KK, et al. **Cutis** 1996 Nov; 58(5):337–8

PREVENTION & CONTROL

Mannose receptors are implicated in the Candida albicans killing activity of epidermal cells [letter] Dobozy A, et al. **Acta Microbiol Immunol Hung** 1996;43(1):93–5

CANDIDIASIS, ORAL

Candidiasis: the emergence of a novel species, Candida dubliniensis [editorial] Coleman DC, et al. **AIDS** 1997 Apr; 11(5):557–67 (96 ref.)

Oropharyngeal candidosis in the older patient. Shay K, et al. **J Am Geriatr Soc** 1997 Jul;45(7):863–70 (70 ref.)

CLASSIFICATION

A proposal for reclassification of oral candidosis [editorial] Axéll T, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):111–2

COMPLICATIONS

Oral transmission of Candida albicans between partners in HIV–infected couples could contribute to dissemination of fluconazole–resistant isolates. Dromer F, et al. **AIDS** 1997 Jul 15;11(9):1095–101

Simultaneous carriage of Candida albicans strains from HIV–infected patients with oral candidiasis: multilocus enzyme electrophoresis analysis. Reynes J, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):269–73

Improving the prognostic value of CD4+ count using IgA and clinical signs in HIV–seropositive i.v. drug users. Montella F, et al. **Infection** 1997 Mar–Apr;25(2):117–20

Genetic dissimilarity of two fluconazole–resistant Candida albicans strains causing meningitis and oral candidiasis in the same AIDS patient. Berenguer J, et al. **J Clin Microbiol** 1996 Jun;34(6):1542–5

[Fungal infections in 100 patients subjected to heart transplantation] Uip DE, et al. **Arq Bras Cardiol** 1996 Feb; 66(2):65–7 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Asymptomatic oral carriage of Candida albicans in patients with HIV infection. Fong IW, et al. **Clin Invest Med** 1997 Apr;20(2):85–93

Locally invasive oral candidiasis mimicking zygomycosis in a patient with diabetic ketoacidosis. Cox DT, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):70–3

Thrush and septic shock in a two–month–old. Fogarty L. **Pediatr Infect Dis J** 1996 Jun;15(6):553–4, 559–60

[A case from practice (369). 1. Acute gastroenteritis. 2. Oral candidiasis] Tietz A. **Schweiz Rundsch Med Prax** 1996 Dec 17;85(51–52):1663–5 **(Ger)**

[HIV infection and opportunistic pathology: the etiopathogenetic considerations and clinico–diagnostic aspects in candidiasis of the oral mucosa] Spadari F, et al. **Minerva Stomatol** 1996 Mar;45(3):81–99 (100 ref.) (Eng. Abstr.) **(Ita)**

[Candidiasis of the oropharyngeal mucosa. The clinical and epidemiological aspects in a group of HIV–positive and AIDS patients] Zambellini Artini M, et al. **Minerva Stomatol** 1996 Dec;45(12):549–61 (60 ref.) (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Itraconazole cyclodextrin solution: the role of in vitro susceptibility testing in predicting successful treatment of HIV–related fluconazole–resistant and fluconazole–susceptible oral candidosis. Cartledge JD, et al. **AIDS** 1997 Feb;11(2):163–8

Relationship between fluconazole dosage regimens and the emergence of fluconazole–resistant Candida albicans. Goetz MB. **AIDS** 1996 Mar;10(3):335–6

Oropharyngeal yeast flora and fluconazole resistance in HIV–infected patients receiving long–term continuous versus intermittent fluconazole therapy. Heald AE, et al. **AIDS** 1996 Mar;10(3):263–8

Itraconazole cyclodextrin solution for fluconazole–refractory oropharyngeal candidiasis in AIDS: correlation of clinical response with in vitro susceptibility. Phillips P, et al. **AIDS** 1996 Oct;10(12):1369–76

In vitro activity of Cinnamomum zeylanicum against azole resistant and sensitive Candida species and a pilot study of cinnamon for oral candidiasis. Quale JM, et al. **Am J Chin Med** 1996;24(2):103–9

Fluconazole suspension for oropharyngeal candidiasis unresponsive to tablets [letter] Martins MD, et al. **Ann Intern Med** 1997 Feb 15;126(4):332–3

Azole resistance in yeasts [letter] Craig JM, et al. **Ann Pharmacother** 1997 Feb;31(2):255

Variation in fluconazole efficacy for Candida albicans strains sequentially isolated from oral cavities of patients with AIDS in an experimental murine candidiasis model. Barchiesi F, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1317–20

Response to fluconazole by 23 patients with human immunodeficiency virus infection and oral candidiasis: pharmacological and mycological factors. Lacassin F, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1961–3

Treating oral candidiasis: potentially fatal [letter] Evans J, et al. **Br Dent J** 1997 Jun 28;182(12):452

Nystatin pastilles and suspension in the treatment of oral candidosis. Millns B, et al. **Br Dent J** 1996 Sep 21; 181(6):209–11

Treating oral candidiasis: potentially fatal [letter] Pemberton M, et al. **Br Dent J** 1997 Aug 9;183(3):87

Comparison of itraconazole and ketoconazole in HIV–positive patients with oropharyngeal or esophageal candidiasis.Human Immunodeficiency Virus Itraconazole Ketoconazole Project Group. de Repentigny L, et al. **Chemotherapy** 1996 Sep–Oct;42(5):374–83

Patterns of fluconazole susceptibility in isolates from human immunodeficiency virus–infected patients with oropharyngeal candidiasis due to Candida albicans. Laguna F, et al. **Clin Infect Dis** 1997 Feb;24(2):124–30

Infection due to fluconazole–resistant Candida in patients with AIDS: prevalence and microbiology. Maenza JR, et al. **Clin Infect Dis** 1997 Jan;24(1):28–34

Oropharyngeal candidiasis in patients with AIDS: randomized comparison of fluconazole versus nystatin oral suspensions. Pons V, et al. **Clin Infect Dis** 1997 Jun; 24(6):1204–7

Itraconazole oral solution versus clotrimazole troches for the treatment of oropharyngeal candidiasis in immunocompromised patients. Murray PA, et al. **Clin Ther** 1997 May–Jun;19(3):471–80

Evaluation of the E test for fluconazole susceptibility testing of Candida albicans isolates from oropharyngeal candidiasis. Dannaoui E, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):228–32

Randomized comparison of two nystatin oral gels with miconazole oral gel for treatment of oral thrush in infants. Antimycotics Study Group. Hoppe JE, et al. **Infection** 1996 Mar–Apr;24(2):136–9

Rationalizing prescribing for oral and oesophageal candidiasis. Taylor CB, et al. **Int J STD AIDS** 1996 Oct; 7(6):452

Clinical response to ketoconazole of HIV–related oral candidosis is predicted by Odds' relative growth method of susceptibility testing. Cartledge JD, et al. **J Antimicrob Chemother** 1997 Jul;40(1):117–9

Analysis of the risk factors associated with the emergence of azole resistant oral candidosis in the course of HIV infection. Tumbarello M, et al. **J Antimicrob Chemother** 1996 Oct;38(4):691–9

Fluconazole versus itraconazole in therapy of oropharyngeal candidiasis in cancer patients: a prospective comparative randomized trial. Studena V, et al. **J Chemother** 1995 Nov; 7 Suppl 4:204–5

Detection and significance of fluconazole resistance in oropharyngeal candidiasis in human immunodeficiency virus–infected patients. Revankar SG, et al. **J Infect Dis** 1996 Oct;174(4):821–7

Itraconazole for treatment of oral candidosis in pediatric cancer patients. Aanpreung P, et al. **J Med Assoc Thai** 1997 Jun;80(6):358–62

Topical thymopentin therapy in HIV positive patients with recurrent oral candidiasis: a pilot study. Coppola S, et al. **New Microbiol** 1996 Oct;19(4):351–5

Ketoconazole resistant oral candidiasis in HIV–infected patients [letter] Diz Dios P, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jul;84(1):3–4

Clinical characteristics and management responses in 85 HIV–infected patients with oral candidiasis. Silverman S Jr, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Oct;82(4):402–7

The successful treatment of oral candidiasis (thrush) in a pediatric patient using itraconazole [letter] Crutchfield CE 3rd, et al. **Pediatr Dermatol** 1997 May–Jun;14(3):246

Treatment of oropharyngeal candidiasis in immunocompetent infants: a randomized multicenter study of miconazole gel vs. nystatin suspension. The Antifungals Study Group. Hoppe JE. **Pediatr Infect Dis J** 1997 Mar;16(3):288–93

[Clinical fluconazole and itraconazole resistance of oro–gastrointestinal candidiasis in a patient with AIDS] Tebbe B, et al. **Hautarzt** 1996 Feb;47(2):136–9 (Eng. Abstr.) **(Ger)**

[Itraconazole suspension in the treatment of HIV–infected patients with fluconazole–resistant oropharyngeal candidiasis and esophagitis] Eichel M, et al. **Mycoses** 1996; 39 Suppl 1:102–6 (Eng. Abstr.) **(Ger)**

[New developments in the treatment of oral candidal infection] Baglyk TV, et al. **Lik Sprava** 1996 Mar–Apr; (3–4):143–5 (Eng. Abstr.) **(Rus)**

[The antifungal and immunomodulating lymphotropic therapy of candidiasis of the oral mucosa] Shumskiĭ AV, et al. **Stomatologiia (Mosk)** 1996;75(4):17–9 (Eng. Abstr.) **(Rus)**

[Oral amphotericin B inefficacy in the treatment of fluconazole++ resistant oropharyngeal candidiasis in HIV–positive patients (letter)] Laguna F, et al. **Rev Clin Esp** 1996 Dec;196(12):878–9 **(Spa)**

EPIDEMIOLOGY

Infection due to fluconazole–resistant Candida in patients with AIDS: prevalence and microbiology. Maenza JR, et al. **Clin Infect Dis** 1997 Jan;24(1):28–34

Association between carriage of oral yeasts, malnutrition and HIV–1 infection among Tanzanian children aged 18 months to 5 years. Scheutz F, et al. **Community Dent Oral Epidemiol** 1997 Jun;25(3):193–8

Widespread geographic distribution of oral Candida dubliniensis strains in human immunodeficiency virus–infected individuals. Sullivan D, et al. **J Clin Microbiol** 1997 Apr;35(4):960–4

Increased prevalence of oral Candida albicans serotype B in homosexual men: a comparative and longitudinal study in HIV–infected and HIV–negative patients. Torssander J, et al. **Mycoses** 1996 Sep–Oct;39(9–10):353–6

[Multifactor analysis of predisposing factors of oral candidosis in adults] Xu Y, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan;31(1):40–1 (Eng. Abstr.) **(Chi)**

[Candida infections: new epidemiologic markers] Bastide JM. **Rev Med Interne** 1996;17 Suppl 3:346s–348s **(Fre)**

ETIOLOGY

Development of oral lesions in human immunodeficiency virus–infected transfusion recipients and hemophiliacs. Hilton JF, et al. **Am J Epidemiol** 1997 Jan 15;145(2):164–74

Cheilo–candidosis in an adult. Napier SS, et al. **Br Dent J** 1996 Nov 9;181(9):336–8

Oral histoplasmosis associated with candidiasis in HIV–infected patients: a report of two cases. Nittayananta W, et al. **Br Dent J** 1997 Apr 26;182(8):309–12

Mixed oropharyngeal candidiasis due to Candida albicans and non–albicans Candida strains in HIV–infected patients. Dronda F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun; 15(6):446–52

Oral manifestations in a patient with idiopathic CD4+ lymphocytopenia. Reichart PA, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):290–2

Adverse reactions in the oral mucosa associated with anterior composite restorations. Blomgren J, et al. **J Oral Pathol Med** 1996 Jul;25(6):311–3

Implantation of Candida albicans and other Candida species in the oral cavity of rats. Totti MA, et al. **J Oral Pathol Med** 1996 Jul;25(6):308–10

Donor site complications of hard palate mucosal grafting. Kim JW, et al. **Ophthal Plast Reconstr Surg** 1997 Mar; 13(1):36–9

Candidal colonization and oral candidiasis in patients undergoing oral and pharyngeal radiation therapy. Ramirez–Amador V, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):149–53

[HIV infection and opportunistic pathology: the etiopathogenetic considerations and clinico–diagnostic aspects in candidiasis of the oral mucosa] Spadari F, et al. **Minerva Stomatol** 1996 Mar;45(3):81–99 (100 ref.) (Eng. Abstr.) **(Ita)**

[Oral candidiasis following radiotherapy for neoplasms of the oromaxillofacial area] Tartaro GP, et al. **Minerva Stomatol** 1996 Oct;45(10):451–4 (9 ref.) (Eng. Abstr.) **(Ita)**

GENETICS

Requirement for the Candida albicans FAS2 gene for infection in a rat model of oropharyngeal candidiasis. Zhao XJ, et al. **Microbiology** 1996 Sep;142 (Pt 9):2509–14

IMMUNOLOGY

Characterisation of the inflammatory cell infiltrate in chronic hyperplastic candidosis of the oral mucosa. Williams DW, et al. **J Oral Pathol Med** 1997 Feb;26(2):83–9

Oral pathoses caused by Candida albicans during chemotherapy: update on development mechanisms. Bunetel L, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Aug;82(2):161–5 (59 ref.)

MICROBIOLOGY

Oropharyngeal yeast flora and fluconazole resistance in HIV-infected patients receiving long-term continuous versus intermittent fluconazole therapy. Heald AE, et al. **AIDS** 1996 Mar;10(3):263-8

Antifungal drug susceptibilities of oral Candida dubliniensis isolates from human immunodeficiency virus (HIV)-infected and non-HIV-infected subjects and generation of stable fluconazole-resistant derivatives in vitro. Moran GP, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):617-23

In vitro activities of voriconazole (UK-109,496) against fluconazole-susceptible and -resistant Candida albicans isolates from oral cavities of patients with human immunodeficiency virus infection. Ruhnke M, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):575-7

Simultaneous carriage of Candida albicans strains from HIV-infected patients with oral candidiasis: multilocus enzyme electrophoresis analysis. Reynes J, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):269-73

Genetic dissimilarity of two fluconazole-resistant Candida albicans strains causing meningitis and oral candidiasis in the same AIDS patient. Berenguer J, et al. **J Clin Microbiol** 1996 Jun;34(6):1542-5

Comparison of four molecular typing methods for evaluating genetic diversity among Candida albicans isolates from human immunodeficiency virus-positive patients with oral candidiasis. Díaz-Guerra TM, et al. **J Clin Microbiol** 1997 Apr;35(4):856-61

Variations in fluconazole susceptibility and DNA subtyping of multiple Candida albicans colonies from patients with AIDS and oral candidiasis suffering one or more episodes of infection. Redding SW, et al. **J Clin Microbiol** 1997 Jul; 35(7):1761-5

Increased prevalence of oral Candida albicans serotype B in homosexual men: a comparative and longitudinal study in HIV-infected and HIV-negative patients. Torssander J, et al. **Mycoses** 1996 Sep-Oct;39(9-10):353-6

PATHOLOGY

Effects of systemic fluconazole therapy on in vitro adhesion of Candida albicans to buccal epithelial cells and changes of the cell surface proteins of the epithelial cells. Wu S, et al. **Chin Med Sci J** 1996 Mar;11(1):45-8

Prognostic value of oral candidosis and hairy leukoplakia in 111 Mexican HIV-infected patients. Ramírez-Amador VA, et al. **J Oral Pathol Med** 1996 May;25(5):206-11

Exfoliative cheilitis (EC) in AIDS: association with Candida infection. Reichart PA, et al. **J Oral Pathol Med** 1997 Jul; 26(6):290-3

Median rhomboid glossitis and a "kissing" lesion of the palate [letter; comment] Brown RS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):472-3. Comment on: Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Apr;81(4):379-80.

Growth patterns of Candida albicans in relation to radicular dentin. Sen BH, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jul;84(1):68-73

PHYSIOPATHOLOGY

Clinical profile and risk factors for oral candidosis in sick newborns. Gupta P, et al. **Indian Pediatr** 1996 Apr; 33(4):299-303

Oral candidiasis in HIV infection: predictive value and comparison of findings in injecting drug users and homosexual men. Phelan JA, et al. **J Oral Pathol Med** 1997 May;26(5):237-43

[Clinical pictures of orointestinal candidiasis. Fiction or reality?] Knoke M. **Mycoses** 1996;39 Suppl 1:40-3 (22 ref.) (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Weekly fluconazole for the prevention of mucosal candidiasis in women with HIV infection. A randomized, double-blind, placebo-controlled trial. Terry Beirn Community Programs for Clinical Research on AIDS. Schuman P, et al. **Ann Intern Med** 1997 May 1; 126(9):689-96

TRANSMISSION

Oral transmission of Candida albicans between partners in HIV-infected couples could contribute to dissemination of fluconazole-resistant isolates. Dromer F, et al. **AIDS** 1997 Jul 15;11(9):1095-101

VIROLOGY

Detection and analysis of human papillomavirus 16 and 18 homologous DNA sequences in oral lesions. Wen S, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):307-11

Oral carriage of Candida albicans in murine AIDS. Deslauriers N, et al. **Infect Immun** 1997 Feb;65(2):661-7

CANDIDIASIS, VULVOVAGINAL

["It's probably fungi". Take vulvovaginal yeast infection seriously with correct diagnosis and consistent treatment] Sjöberg I. **Lakartidningen** 1996 Oct 23;93(43):3793-5 (17 ref.) **(Swe)**

BLOOD

Association of recurrent vaginal candidiasis and secretory ABO and Lewis phenotype. Chaim W, et al. **J Infect Dis** 1997 Sep;176(3):828-30

DIAGNOSIS

Use of CHROMagar Candida for genital specimens in the diagnostic laboratory. Houang ET, et al. **J Clin Pathol** 1997 Jul;50(7):563-5

Fluorometric determination of acid proteinase activity in vulvovaginal candidosis. Kiliç N, et al. **Mycoses** 1996 Sep-Oct;39(9-10):347-51

Use of a lactoferrin assay in the differential diagnosis of female genital tract infections and implications for the pathophysiology of bacterial vaginosis. Rein MF, et al. **Sex Transm Dis** 1996 Nov-Dec;23(6):517-21

[Usefulness of fresh wet mount examination in the diagnosis of vaginal candidiasis] Casanova Roman G, et al. **Ginecol Obstet Mex** 1997 Mar;65:87-91 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Fluconazole treatment for vulvovaginal candidiasis during pregnancy [letter] Campomori A, et al. **Ann Pharmacother** 1997 Jan;31(1):118-9

Once-daily fluocinonide-bifonazole combination for the treatment of vulvar itching and vulvovaginal candidiasis. Preliminary study. Kaplan B, et al. **Clin Exp Obstet Gynecol** 1996;23(3):173-6

Single-dose systemic oral fluconazole for the treatment of vaginal candidiasis. Kaplan B, et al. **Int J Gynaecol Obstet** 1997 Jun;57(3):281-6

Anticandidal activity of Santolina chamaecyparissus volatile oil. Suresh B, et al. **J Ethnopharmacol** 1997 Jan;55(2):151-9

Role of antifungal drug resistance in the pathogenesis of recurrent vulvovaginal candidiasis. Lynch ME, et al. **J Med Vet Mycol** 1996 Sep-Oct;34(5):337-9

Therapeutic potential of antiidiotypic single chain antibodies with yeast killer toxin activity [see comments] Magliani W, et al. **Nat Biotechnol** 1997 Feb;15(2):155-8. Comment in: Nat Biotechnol 1997 Feb;15(2):123-4.

[The treatment of acute mycotic colpitis with ciclopiroxolamine in patients using oral contraceptives] Damianov L, et al. **Akush Ginekol (Sofiia)** 1997;36(1):32-3 (Eng. Abstr.) **(Bul)**

[The treatment of vaginal candidiasis during pregnancy with a single dose of clotrimazole] Dukovski A. **Akush Ginekol (Sofiia)** 1996;35(4):46-8 (Eng. Abstr.) **(Bul)**

[Review of the latest treatments of vulvovaginal mycoses: role of fenticonazole nitrate (Lomexin) in their treatment] Cohen J. **Contracept Fertil Sex** 1997 May;25(5):396-403 (35 ref.) (Eng. Abstr.) **(Fre)**

[Prerequisites for effective therapy of chronic recurrent vaginal candidiasis] Kunzelmann V, et al. **Mycoses** 1996; 39 Suppl 1:65-72 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Immune compromise and prevalence of Candida vulvovaginitis in human immunodeficiency virus-infected women. Duerr A, et al. **Obstet Gynecol** 1997 Aug; 90(2):252-6

ETIOLOGY

The impact of contraceptive methods on the onset of symptomatic vulvovaginal candidiasis within the menstrual cycle. Nelson AL. **Am J Obstet Gynecol** 1997 Jun; 176(6):1376-80

Vaginal colonization or infection with Candida albicans in human immunodeficiency virus-infected women during pregnancy and during the postpartum period. Women and Infants Transmission Study Group. Burns DN, et al. **Clin Infect Dis** 1997 Feb;24(2):201-10

Recurrent vulvovaginal candidiasis associated with long-term tamoxifen treatment in postmenopausal women. Sobel JD, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):704-6

IMMUNOLOGY

Immunopathogenesis of recurrent vulvovaginal candidiasis. Fidel PL Jr, et al. **Clin Microbiol Rev** 1996 Jul;9(3):335-48 (117 ref.)

Use of cellular depletion analysis to examine circulation of immune effector function between the vagina and the periphery. Fidel PL Jr, et al. **Infect Immun** 1997 Sep; 65(9):3939-43

In vitro decrease of rat-derived Pneumocystis carinii attachment induced by human natural yeast killer toxin-like antiidiotypic candidacidal antibodies. Séguy N, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):27S

Vaginal-associated immunity in women with recurrent vulvovaginal candidiasis: evidence for vaginal Th1-type responses following intravaginal challenge with Candida antigen. Fidel PL Jr, et al. **J Infect Dis** 1997 Sep; 176(3):728-39

Immunological investigations in vaginal mycoses. Mendling W, et al. **Mycoses** 1996 May-Jun;39(5-6):177-83

[Immunopathogenesis of recurrent vulvovaginal candidiasis] Fidel PL Jr, et al. **Contracept Fertil Sex** 1996 Jan; 24(1):33-40 (0 ref.) **(Fre)**

MICROBIOLOGY

Prevalence and antifungal susceptibility of vaginal yeasts in outpatients attending a gynecological center in Ancona, Italy. Arzeni D, et al. **Eur J Epidemiol** 1997 Jun; 13(4):447-50

Vaginal microbiology of women with acute recurrent vulvovaginal candidiasis. Sobel JD, et al. **J Clin Microbiol** 1996 Oct;34(10):2497-9

Role of antifungal drug resistance in the pathogenesis of recurrent vulvovaginal candidiasis. Lynch ME, et al. **J Med Vet Mycol** 1996 Sep-Oct;34(5):337-9

PHYSIOPATHOLOGY

The impact of contraceptive methods on the onset of symptomatic vulvovaginal candidiasis within the menstrual cycle. Nelson AL. **Am J Obstet Gynecol** 1997 Jun; 176(6):1376-80

PREVENTION & CONTROL

Weekly fluconazole for the prevention of mucosal candidiasis in women with HIV infection. A randomized, double-blind, placebo-controlled trial. Terry Beirn Community Programs for Clinical Research on AIDS. Schuman P, et al. **Ann Intern Med** 1997 May 1; 126(9):689-96

Prevention of recurrent vaginal candidiasis with weekly terconazole cream. Stein GE, et al. **Ann Pharmacother** 1996 Oct;30(10):1080-3

Protective role of antimannan and anti-aspartyl proteinase antibodies in an experimental model of Candida albicans vaginitis in rats. De Bernardis F, et al. **Infect Immun** 1997 Aug;65(8):3399-405

Hydrogen peroxide-producing lactobacilli and acquisition of vaginal infections. Hawes SE, et al. **J Infect Dis** 1996 Nov; 174(5):1058-63

Managing recurrent vulvovaginal candidiasis. Intermittent prevention with itraconazole. Spinillo A, et al. **J Reprod Med** 1997 Feb;42(2):83-7

TRANSMISSION

Risk factors for vulvovaginal candidiasis: a case-control study among university students. Geiger AM, et al. **Epidemiology** 1996 Mar;7(2):182-7

CANDY

The effect of a chocolate bar supplementation on moderate exercise recovery of recreational runners. Chen JD, et al. **Biomed Environ Sci** 1996 Sep;9(2-3):247-55

Oral cancer in South Asia [letter] Trivedy C, et al. **Br Dent J** 1997 Mar 22;182(6):206

Acquisition of pharyngeal gonorrhoea via sweets passed by mouth [letter] David LM. **Genitourin Med** 1997 Apr; 73(2):146

ADVERSE EFFECTS

Low fat dietitians [letter; comment] Stillman-Lowe C. **Br Dent J** 1996 Dec 7-21;181(11-12):399. Comment on: Br Dent J 1996 Aug 10;181(3):88.

[Chronic rhinitis, or the consequences of gluttony] Nicolie B, et al. **Allerg Immunol (Paris)** 1997 Jan;29(1):22-3 **(Fre)**

POISONING

[Pseudohyperaldosteronism secondary to licorice poisoning associated with hemorrhagic gastritis] Cataldo F, et al. **Pediatr Med Chir** 1997 May-Jun;19(3):219-21 (10 ref.) (Eng. Abstr.) **(Ita)**

CANES

Long-cane modification for carpal tunnel syndrome: a case report. Aquilante K, et al. **J Am Optom Assoc** 1996 Jun; 67(6):316-8

Influences of cane length on the stability of stroke patients. Lu CL, et al. **J Rehabil Res Dev** 1997 Jan;34(1):91-100

Comparison of hiking stick use on lateral stability while balancing with and without a load. Jacobson BH, et al. **Percept Mot Skills** 1997 Aug;85(1):347-50

Effects of assistive devices on cardiorespiratory demands in older adults [see comments] Foley MP, et al. **Phys Ther** 1996 Dec;76(12):1313-9. Comment in: Phys Ther 1997 May;77(5):561, 563.

HISTORY

Staffs as walking aids in ancient Egypt and Palestine. Loebl WY, et al. **J R Soc Med** 1997 Aug;90(8):450-4

CANINE ADENOVIRUSES see **ADENOVIRUSES, CANINE**

CANINE CORONAVIRUS see **CORONAVIRUS, CANINE**

CANINE DISTEMPER see **DISTEMPER**

CANINE DISTEMPER VIRUS see **DISTEMPER VIRUS, CANINE**

CANINE GUIDANCE see **DENTAL OCCLUSION**

CANINE HERPESVIRUS 1

CANINE HERPESVIRUS 1 see **HERPESVIRUS 1, CANID**

CANINE HIP DYSPLASIA see **HIP DYSPLASIA, CANINE**

CANINE PARVOVIRUS see **PARVOVIRUS, CANINE**

CANINE TOOTH see **CUSPID**

CANINE TRACHEOBRONCHITIS VIRUS see **HERPESVIRUS 1, CANID**

CANKER SORE see **STOMATITIS, APHTHOUS**

CANNABIDIOL

ANALYSIS

Testing human hair for Cannabis. III. rapid screening procedure for the simultaneous identification of delta 9-tetrahydrocannabinol, cannabinol, and cannabidiol. Cirimele V, et al. **J Anal Toxicol** 1996 Jan-Feb;20(1):13-6

CANNABINOIDS

see related

HALLUCINOGENS

Molecular cloning of two cannabinoid type 1-like receptor genes from the puffer fish Fugu rubripes. Yamaguchi F, et al. **Genomics** 1996 Aug 1;35(3):603-5

Endogenous cannabinoid ligands--chemical and biological studies. Mechoulam R, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):45-9 (23 ref.)

Physical and genetic localization of the bovine cannabinoid receptor (CNR1) gene to bovine chromosome 9. Pfister-Genskow M, et al. **Mamm Genome** 1997 Apr; 8(4):301-2

delta9-Tetrahydrocannabinol excites rat VTA dopamine neurons through activation of cannabinoid CB1 but not opioid receptors. French ED. **Neurosci Lett** 1997 May 2; 226(3):159-62

Mortality within the first 2 years in infants exposed to cocaine, opiate, or cannabinoid during gestation. Ostrea EM Jr, et al. **Pediatrics** 1997 Jul;100(1):79-83

ADVERSE EFFECTS

An evaluation of the history of a marijuana withdrawal syndrome in a large population. Wiesbeck GA, et al. **Addiction** 1996 Oct;91(10):1469-78

Cannabis and the brain [see comments] Castle DJ, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):179-83 (28 ref.). Comment in: Aust N Z J Psychiatry 1997 Apr;31(2):304-5.

Drug induced psychosis [letter; comment] Allebeck P, et al. **Br J Psychiatry** 1996 Jul;169(1):114-5. Comment on: Br J Psychiatry 1996 Feb;168(2):135-8.

A community survey of adverse effects of cannabis use. Thomas H. **Drug Alcohol Depend** 1996 Nov;42(3):201-7

Towards a cannabinoid hypothesis of schizophrenia: cognitive impairments due to dysregulation of the endogenous cannabinoid system. Emrich HM, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):803-7

AGONISTS

Local pressure application of cannabinoid agonists increases spontaneous activity of rat substantia nigra pars reticulata neurons without affecting response to iontophoretically-applied GABA. Tersigni TJ, et al. **Brain Res** 1996 Sep 16;733(2):184-92

The analgesic effects of R(+)-WIN 55,212-2 mesylate, a high affinity cannabinoid agonist, in a rat model of neuropathic pain. Herzberg U, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):157-60

Stabilizing neuromuscular contacts increases motoneuron survival after neonatal nerve injury in rats. Harding DI, et al. **Neuroscience** 1996 Feb;70(3):799-805

ANALYSIS

Isolation and measurement of the endogenous cannabinoid receptor agonist, anandamide, in brain and peripheral tissues of human and rat. Felder CC, et al. **FEBS Lett** 1996 Sep 16;393(2-3):231-5

Monoclonal antibody based enzyme immunoassay for marihuana (cannabinoid) compounds. Tanaka H, et al. **J Immunoassay** 1996 Nov;17(4):321-42

A second endogenous cannabinoid that modulates long-term potentiation. Stella N, et al. **Nature** 1997 Aug 21; 388(6644):773-8

A preliminary study of the analysis of Cannabis by supercritical fluid chromatography with atmospheric pressure chemical ionisation mass spectroscopic detection. Bäckström B, et al. **Sci Justice** 1997 Apr-Jun;37(2):91-7

ANTAGONISTS & INHIBITORS

Inhibition of hippocampal acetylcholine release by cannabinoids: reversal by SR 141716A. Gessa GL, et al. **Eur J Pharmacol** 1997 May 26;327(1):R1-2

AM630 antagonism of cannabinoid-stimulated [35S]GTP gamma S binding in the mouse brain. Hosohata Y, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):R1-3

SR 141716A, a cannabinoid receptor antagonist, produces hyperalgesia in untreated mice. Richardson JD, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):R3-4

SR141716A antagonizes the disruptive effects of cannabinoid ligands on learning in rats. Brodkin J, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1526-32

Characterisation of the rat cerebella CB1 receptor using SR141716A, a central cannabinoid receptor antagonist. Hirst RA, et al. **Neurosci Lett** 1996 Dec 13;220(2):101-4

The selective cannabinoid antagonist SR 141716A blocks cannabinoid-induced antinociception in rats. Lichtman AH, et al. **Pharmacol Biochem Behav** 1997 May-Jun; 57(1-2):7-12

BIOSYNTHESIS

Potential biosynthetic connections between the two cannabimimetic eicosanoids, anandamide and 2-arachidonoyl-glycerol, in mouse neuroblastoma cells. Di Marzo V, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):281-8

Cannabinoid receptors CB1 and CB2: a characterization of expression and adenylate cyclase modulation within the immune system. Schatz AR, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):278-87

BLOOD

A reliable method for the detection, confirmation, and quantitation of cannabinoids in blood. Goodall CR, et al. **J Anal Toxicol** 1995 Oct;19(6):419-26

CHEMICAL SYNTHESIS

Structure-activity relationships defining the ACD-tricyclic cannabinoids: cannabinoid receptor binding and analgesic activity. Melvin LS, et al. **Drug Des Discov** 1995 Nov; 13(2):155-66

CHEMISTRY

Structure-activity relationships of cannabinoids: a joint CoMFA and pseudoreceptor modelling study. Schmetzer S, et al. **J Comput Aided Mol Des** 1997 May;11(3):278-92

Unsaturated side chain beta-11-hydroxyhexahydrocannabinol analogs. Busch-Petersen J, et al. **J Med Chem** 1996 Sep 13; 39(19):3790-6

IMMUNOLOGY

Monoclonal antibody based enzyme immunoassay for marihuana (cannabinoid) compounds. Tanaka H, et al. **J Immunoassay** 1996 Nov;17(4):321-42

METABOLISM

Endogenous cannabinoid ligands. Mechoulam R, et al. **Adv Exp Med Biol** 1996;402:95-101 (30 ref.)

Fatty acid sulfonyl fluorides inhibit anandamide metabolism and bind to the cannabinoid receptor. Deutsch DG, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):217-21

Reversible hydrolysis and synthesis of anandamide demonstrated by recombinant rat fatty-acid amide hydrolase. Kurahashi Y, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):512-5

An endogenous cannabinoid as an endothelium-derived vasorelaxant. Randall MD, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):114-20

A fluorescence displacement assay for the measurement of arachidonoyl ethanolamide (anandamide) and oleoyl amide (octadecenoamide) hydrolysis. Thumser AE, et al. **Biochem Pharmacol** 1997 Feb 7;53(3):433-5

Activation of brain-type cannabinoid receptors interferes with preimplantation mouse embryo development. Yang ZM, et al. **Biol Reprod** 1996 Oct;55(4):756-61

Anandamide, a natural ligand for the peripheral cannabinoid receptor is a novel synergistic growth factor for hematopoietic cells. Valk P, et al. **Blood** 1997 Aug 15; 90(4):1448-57

Ontogenetic development of the response to anandamide and delta 9-tetrahydrocannabinol in mice. Fride E, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):131-4

A selective inverse agonist for central cannabinoid receptor inhibits mitogen-activated protein kinase activation stimulated by insulin or insulin-like growth factor 1. Evidence for a new model of receptor/ligand interactions. Bouaboula M, et al. **J Biol Chem** 1997 Aug 29; 272(35):22330-9

Anandamide--a new look on fatty acid ethanolamides. Berdyshev EV, et al. **J Lipid Mediat Cell Signal** 1996 Dec; 15(1):49-67 (105 ref.)

Membrane localization of N-acylphosphatidylethanolamine in central neurons: studies with exogenous phospholipases. Cadas H, et al. **J Lipid Mediat Cell Signal** 1996 Sep; 14(1-3):63-70

Occurrence and biosynthesis of endogenous cannabinoid precursor, N-arachidonoyl phosphatidylethanolamine, in rat brain. Cadas H, et al. **J Neurosci** 1997 Feb 15; 17(4):1226-42

Evaluation of binding in a transfected cell line expressing a peripheral cannabinoid receptor (CB2): identification of cannabinoid receptor subtype selective ligands. Showalter VM, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):989-99

Topography and thermotropic properties of cannabinoids in brain sphingomyelin bilayers. Mavromoustakos T, et al. **Life Sci** 1996;59(23):1969-79

Endogenous cannabinoids as an aversive or counter-rewarding system in the rat. Sañudo-Peña MC, et al. **Neurosci Lett** 1997 Feb 21;223(2):125-8

Inhibitors of anandamide breakdown. Deutsch DG, et al. **NIDA Res Monogr** 1997;173:65-84 (39 ref.)

Cannabinoid receptor genes. Onaivi ES, et al. **Prog Neurobiol** 1996 Mar-Apr;48(4-5):275-305 (117 ref.)

Cerebrodiene, arachidonyl-ethanolamide, and hybrid structures: potential for interaction with brain cannabinoid receptors. Boring DL, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):207-10

Functional role of high-affinity anandamide transport, as revealed by selective inhibition. Beltramo M, et al. **Science** 1997 Aug 22;277(5329):1094-7

PHARMACOKINETICS

Biosynthesis, uptake, and degradation of anandamide and palmitoylethanolamide in leukocytes. Bisogno T, et al. **J Biol Chem** 1997 Feb 7;272(6):3315-23

The biodisposition and metabolism of anandamide in mice. Willoughby KA, et al. **J Pharmacol Exp Ther** 1997 Jul; 282(1):243-7

PHARMACOLOGY

Cannabis: pharmacology and toxicology in animals and humans. Adams IB, et al. **Addiction** 1996 Nov; 91(11):1585-614 (265 ref.)

Cannabinoids and interleukin-6 enhance the response to NMDA in developing CNS neurons. Gruol DL, et al. **Adv Exp Med Biol** 1996;402:111-7

Immune regulation by cannabinoid compounds through the inhibition of the cyclic AMP signaling cascade and altered gene expression. Kaminski NE. **Biochem Pharmacol** 1996 Oct 25;52(8):1133-40 (61 ref.)

Failure of cannabinoid compounds to stimulate estrogen receptors. Ruh MF, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):35-41

Inhibition of anandamide amidase activity in mouse brain microsomes by cannabinoids. Watanabe K, et al. **Biol Pharm Bull** 1996 Aug;19(8):1109-11

Physiological and behavioural effects of the endogenous cannabinoid, arachidonylethanolamide (anandamide), in the rat. Stein EA, et al. **Br J Pharmacol** 1996 Sep;119(1):107-14

Morphine- and anandamide-stimulated nitric oxide production inhibits presynaptic dopamine release. Stefano GB, et al. **Brain Res** 1997 Jul 18;763(1):63-8

Chronic treatment with a synthetic cannabinoid CP-55,940 alters G-protein expression in the rat central nervous system. Rubino T, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):191-7

Characterization of anandamide-induced tolerance: comparison to delta 9-THC-induced interactions with dynorphinergic systems. Welch SP. **Drug Alcohol Depend** 1997 Apr 14;45(1-2):39-45

Modulation of neurotransmission by cannabinoids in the basal ganglia. Glass M, et al. **Eur J Neurosci** 1997 Feb; 9(2):199-203 (75 ref.)

Examination of the effect of the cannabinoid receptor agonist, CP 55,940, on electrically evoked transmitter release from rat brain slices. Gifford AN, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):187-92

Cannabinoid modulation of rat pup ultrasonic vocalizations. McGregor IS, et al. **Eur J Pharmacol** 1996 Oct 10; 313(1-2):43-9

Electrophysiological effects of a cannabinoid on neural activity in the globus pallidus. Miller AS, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):29-35

(R)-methanandamide, but not anandamide, substitutes for delta 9-THC in a drug-discrimination procedure. Burkey RT, et al. **Exp Clin Psychopharmacol** 1997 Aug; 5(3):195-202

Mechanism of the hypotensive action of anandamide in anesthetized rats. Varga K, et al. **Hypertension** 1996 Oct; 28(4):682-6

Molecular neurobiology of the cannabinoid receptor. Abood ME, et al. **Int Rev Neurobiol** 1996;39:197-221 (97 ref.)

Anandamide--a new look on fatty acid ethanolamides. Berdyshev EV, et al. **J Lipid Mediat Cell Signal** 1996 Dec; 15(1):49-67 (105 ref.)

Influence of cannabinoids on electrically evoked dopamine release and cyclic AMP generation in the rat striatum. Cadogan AK, et al. **J Neurochem** 1997 Sep;69(3):1131-7

Role of the subthalamic nucleus in cannabinoid actions in the substantia nigra of the rat. Sañudo-Peña MC, et al. **J Neurophysiol** 1997 Mar;77(3):1635-8

Effects of chronic treatment with delta9-tetrahydrocannabinol on cannabinoid-stimulated [35S]GTPgammaS autoradiography in rat brain. Sim LJ, et al. **J Neurosci** 1996 Dec 15;16(24):8057-66

Cannabinoid-induced hypotension and bradycardia in rats mediated by CB1-like cannabinoid receptors. Lake KD, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1030-7

Involvement of dynorphin B in the antinociceptive effects of the cannabinoid CP55,940 in the spinal cord. Pugh G Jr, et al. **J Pharmacol Exp Ther** 1997 May;281(2):730-7

Anandamide may mediate sleep induction [letter] Mechoulam R, et al. **Nature** 1997 Sep 4;389(6646):25-6

Nonclassical and endogenous cannabinoids: effects on the ordering of brain membranes. Bloom AS, et al.

Neurochem Res 1997 May;22(5):563–8
Cannabinoid receptors: pharmacology, second messenger systems and endogenous ligands. **NIDA Res Monogr** 1994; 140:55–60
Drugs of abuse and immunosuppression.
NIDA Res Monogr 1994;140:89–93
Evidence against cannabinoid receptor involvement in intraocular pressure effects of cannabinoids in rabbits. Hodges LC, et al. **Ophthalmic Res** 1997;29(1):1–5
Changes in rat spleen cannabinoid receptors after chronic CP–55,940: an autoradiographic study. Massi P, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):73–8

THERAPEUTIC USE

The perceived effects of smoked cannabis on patients with multiple sclerosis. Consroe P, et al. **Eur Neurol** 1997; 38(1):44–8

TOXICITY

Developmental aspects of anandamide: ontogeny of response and prenatal exposure. Fride E, et al.
Psychoneuroendocrinology 1996 Feb;21(2):157–72

URINE

Screening for drugs of abuse (II): Cannabinoids, lysergic acid diethylamide, buprenorphine, methadone, barbiturates, benzodiazepines and other drugs. Simpson D, et al.
Ann Clin Biochem 1997 Sep;34 (Pt 5):460–510 (408 ref.)
A positive cannabinoids workplace drug test following the ingestion of commercially available hemp seed oil. Struempler RE, et al. **J Anal Toxicol** 1997 Jul–Aug; 21(4):283–5

CANNABINOL

ANALYSIS

Testing human hair for Cannabis. III. rapid screening procedure for the simultaneous identification of delta 9–tetrahydrocannabinol, cannabinol, and cannabidiol. Cirimele V, et al. **J Anal Toxicol** 1996 Jan–Feb;20(1):13–6

HISTORY

Todd's achievement [letter; comment] Mechoulam R.
Nature 1997 Apr 24;386(6627):755. Comment on: Nature 1997 Feb 6;385(6616):492.

TOXICITY

Psychoactive cannabinoids increase mortality and alter acute phase cytokine responses in mice sublethally infected with Legionella pneumophila. Smith MS, et al.
Proc Soc Exp Biol Med 1997 Jan;214(1):69–75

CANNABIS

see related
CANNABINOIDS
MARIJUANA ABUSE
MARIJUANA SMOKING

Medical marijuana and its use by the immunocompromised. McPartland JM, et al. **Altern Ther Health Med** 1997 May; 3(3):39–45 (101 ref.)
Characteristics of pregnant substance abusers in two cities in the northeast. Bendersky M, et al.
Am J Drug Alcohol Abuse 1996 Aug;22(3):349–62
Generalizability of the type A/type B distinction across different psychoactive substances. Feingold A, et al.
Am J Drug Alcohol Abuse 1996 Aug;22(3):449–62
California, Arizona laws permit medical use of marijuana [news] Landis NT. **Am J Health Syst Pharm** 1997 Jan 15; 54(2):126, 128, 132
Medicinal applications of delta–9–tetrahydrocannabinol and marijuana. Voth EA, et al. **Ann Intern Med** 1997 May 15; 126(10):791–8 (92 ref.)
Prolonged marijuana–like dysphoria after subcutaneous sumatriptan [letter] Bakshi R, et al. **Ann Pharmacother** 1996 Jun;30(6):683
Cannabis. Robson P. **Arch Dis Child** 1997 Aug;77(2):164–6 (30 ref.)
Cannabis use [letter] Boettcher B. **Aust N Z J Psychiatry** 1996 Dec;30(6):877
Doctors penalised for prescribing cannabis [news] Charatan FB. **BMJ** 1997 Jan 11;314(7074):92
Two more US states approve of cannabis [news] MacReady N. **BMJ** 1996 Nov 16;313(7067):1224
Medicinal marijuana provided at cost price [news] Sheldon T. **BMJ** 1997 Aug 30;315(7107):504
Preoperative marijuana inhalation—an airway concern. Mallat A, et al. **Can J Anaesth** 1996 Jul;43(7):691–3
Marijuana: current federal law remains in effect. Boufford JI, et al. **Conn Med** 1997 Apr;61(4):229–30
Marijuana–controlled substance? [letter] Boufford JI, et al. **Del Med J** 1997 Mar;69(3):141–2
Comparing assessments of DSM–IV substance dependence disorders using CIDI–SAM and SCAN [published erratum appears in Drug Alcohol Depend 1996 Nov;42(3):217–9] Compton WM, et al. **Drug Alcohol Depend** 1996 Jul; 41(3):179–87
Prison doctors beware!. Winceslaus J. **Genitourin Med** 1997 Apr;73(2):121
A positive THC urinalysis from hemp (Cannabis) seed oil [letter] Callaway JC, et al. **J Anal Toxicol** 1997 Jul–Aug; 21(4):319–20
A positive cannabinoids workplace drug test following the ingestion of commercially available hemp seed oil. Struempler RE, et al. **J Anal Toxicol** 1997 Jul–Aug; 21(4):283–5
Recent developments in the pharmacotherapy of substance abuse. O'Brien CP. **J Consult Clin Psychol** 1996 Aug; 64(4):677–86 (57 ref.)
Cancer problems lead list for potential medical marijuana research studies [news] Smigel K. **J Natl Cancer Inst** 1997 Sep 3;89(17):1255
Cannabis cookies: a cause of coma. Boros CA, et al.
J Paediatr Child Health 1996 Apr;32(2):194–5
'Decent research and closure' needed on medical marijuana, says head of NIH panel [news] Voelker R. **JAMA** 1997 Sep 10;278(10):802
NIH panel says more study is needed to assess marijuana's medicinal use [news] Voelker R. **JAMA** 1997 Mar 19; 277(11):867–8
New marijuana laws in 2 states prompt caution [news] Voelker R. **JAMA** 1996 Dec 11;276(22):1786–7
Reefer madness—the federal response to California's medical–marijuana law. Annas GJ. **N Engl J Med** 1997 Aug 7;337(6):435–9
Medicinal marijuana? [letter; comment] Domino L.
N Engl J Med 1997 Apr 17;336(16):1185; discussion 1186–7 . Comment on: N Engl J Med 1997 Jan 30;336(5):366–7.
Medicinal marijuana [letter] Dorizzi RM. **N Engl J Med** 1997 Apr 17;336(16):1185; discussion 1186–7
Medicinal marijuana? [letter; comment] DuPont RL.
N Engl J Med 1997 Apr 17;336(16):1184; discussion 1186–7 . Comment on: N Engl J Med 1997 Jan 30;336(5):366–7.
Medicinal marijuana? [letter; comment] Grant D.
N Engl J Med 1997 Apr 17;336(16):1185; discussion 1186–7 . Comment on: N Engl J Med 1997 Jan 30;336(5):366–7.
Medicinal marijuana? [letter] Hensel WA. **N Engl J Med** 1997 Apr 17;336(16):1184–5; discussion 1186–7
Medicinal marijuana? [letter] Kanof PD. **N Engl J Med** 1997 Apr 17;336(16):1184; discussion 1186–7
Federal foolishness and marijuana [editorial] [see comments] Kassirer JP. **N Engl J Med** 1997 Jan 30;336(5):366–7. Comment in: N Engl J Med 1997 Apr 17;336(16):1184; discussion 1186–7. Comment in: N Engl J Med 1997 Apr 17;336(16):1185; discussion 1186–7.
Medicinal marijuana? [letter] Taub A. **N Engl J Med** 1997 Apr 17;336(16):1185; discussion 1186–7
Marijuana as a medicine [letter; comment] Burstein S.
Nature 1997 Mar 27;386(6623):320. Comment on: Nature 1997 Feb 27;385(6619):756.
Mellow mood fosters marijuana research [news] Lehrman S. **Nature** 1997 Feb 6;385(6616):475
Acceptance of marijuana therapy prompts call for more research [news] Lehrman S. **Nature** 1996 Nov 14; 384(6605):95
Make marijuana research easier, panel urges NIH [news] Lehrman S. **Nature** 1997 Aug 14;388(6643):613
Marijuana research gets backing at NIH [news] [see comments] Wadman M. **Nature** 1997 Feb 27;385(6619):756 . Comment in: Nature 1997 Mar 27;386(6623):320.
Behavioral outcomes in preschool and school–age children exposed prenatally to marijuana: a review and speculative interpretation. Fried PA. **NIDA Res Monogr** 1996; 164:242–60 (50 ref.)
Traffic and illegal production of drugs in rural America. O'Dea PJ, et al. **NIDA Res Monogr** 1997;168:79–89
Elevated plasma norepinephrine after in utero exposure to cocaine and marijuana. Mirochnick M, et al. **Pediatrics** 1997 Apr;99(4):555–9
Comparative effects of alcohol and marijuana on mood, memory, and performance. Heishman SJ, et al.
Pharmacol Biochem Behav 1997 Sep;58(1):93–101
Stroke and transient ischaemic attacks in association with substance abuse in a young man. Lawson TM, et al.
Postgrad Med J 1996 Nov;72(853):692–3
Marijuana addiction [letter; comment] Grinspoon L, et al. **Science** 1997 Aug 8;277(5327):749; discussion 750–2. Comment on: Science 1997 Jun 27;276(5321):2048–50. Comment on: Science 1997 Jun 27;276(5321):2050–4.
Interpreting Dutch cannabis policy: reasoning by analogy in the legalization debate. MacCoun R, et al. **Science** 1997 Oct 3;278(5335):47–52
Marijuana addiction [letter] McGregor IS. **Science** 1997 Aug 8;277(5327):749–50; discussion 750–2
Marijuana: harder than thought? [news; comment] Wickelgren I. **Science** 1997 Jun 27;276(5321):1967–8. Comment on: Science 1997 Jun 27;276(5321):2048–50. Comment on: Science 1997 Jun 27;276(5321):2050–4.
Report on the prevalence of drug/alcohol abuse and dependence in chronic pain patients (CPPs) [letter] Fishbain DA. **Subst Use Misuse** 1996 Jun;31(8):945–6
[Cannabis poisoning after eating salad] Meier H, et al.
Schweiz Med Wochenschr 1997 Feb 8;127(6):214–8 (Eng. Abstr.) **(Ger)**
[Hashish in pharmacies? (editorial)] Remschmidt H.
Z Kinder Jugenpsychiatr 1997 May;25(2):71–2 **(Ger)**

CHEMISTRY

Structural features of the pectic polysaccharides isolated from retted hemp bast fibres. Vignon MR, et al.
Carbohydr Res 1996 Dec 24;296:249–60
Are choice and self–administration of marijuana related to delta 9–THC content? Kelly TH, et al.
Exp Clin Psychopharmacol 1997 Feb;5(1):74–82
Testing human hair for Cannabis. III. rapid screening procedure for the simultaneous identification of delta 9–tetrahydrocannabinol, cannabinol, and cannabidiol. Cirimele V, et al. **J Anal Toxicol** 1996 Jan–Feb;20(1):13–6
Hair testing for cannabis in Spain and France: is there a difference in consumption? Jurado C, et al.
J Anal Toxicol 1996 Mar–Apr;20(2):111–5
The volatile oil composition of fresh and air–dried buds of Cannabis sativa. Ross SA, et al. **J Nat Prod** 1996 Jan; 59(1):49–51
A preliminary study of the analysis of Cannabis by supercritical fluid chromatography with atmospheric pressure chemical ionisation mass spectroscopic detection. Bäckström B, et al. **Sci Justice** 1997 Apr–Jun;37(2):91–7

GENETICS

Ribosomal DNA analysis as a tool for the identification of Cannabis sativa L. specimens of forensic interest. Siniscalco Gigliano G, et al. **Sci Justice** 1997 Jul–Sep;37(3):171–4

IMMUNOLOGY

Monoclonal antibody based enzyme immunoassay for marihuana (cannabinoid) compounds. Tanaka H, et al.
J Immunoassay 1996 Nov;17(4):321–42
Medicinal marijuana? [letter] Tashkin DP, et al.
N Engl J Med 1997 Apr 17;336(16):1186; discussion 1186–7

METABOLISM

An indoor air quality–pharmacokinetic simulation of passive inhalation of marijuana smoke and the resultant buildup of 11–nor–delta–9–tetrahydrocannabinol–9–carboxylic acid in urine. Giardino NJ. **J Forensic Sci** 1997 Mar;42(2):323–5
Neuropsychological correlates of urine toxicology results. Easton C, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Aug; 20(6):969–82

ULTRASTRUCTURE

Plastid development in disc cells of glandular trichomes of Cannabis (Cannabaceae). Kim ES, et al. **Mol Cells** 1997 Jun 30;7(3):352–9

CANNABIS ABUSE see **MARIJUANA ABUSE**

CANNABIS SMOKING see **MARIJUANA SMOKING**

CANNIBALISM

Cannibalism and kuru [letter] [see comments] Goodfield J. **Nature** 1997 Jun 26;387(6636):841. Comment in: Nature 1997 Sep 4;389(6646):11.
Gourmet cannibalism in New Guinea tribe [letter; comment] Rhodes R. **Nature** 1997 Sep 4;389(6646):11. Comment on: Nature 1997 Jun 26;387(6636):841.
The influence of protein level in the diet on cannibalism and quality of plumage of layers. Ambrosen T, et al.
Poult Sci 1997 Apr;76(4):559–63
Cannibalism can be beneficial even when its mean yield is less than one. Henson SM. **Theor Popul Biol** 1997 Apr; 51(2):109–17 (18 ref.)

HISTORY

Evidence of cannibalism? [letter] Bullock PY. **Science** 1997 Sep 19;277(5333):1745–6
Archaeologists rediscover cannibals [news] Gibbons A.
Science 1997 Aug 1;277(5326):635–7
Evidence of cannibalism? [letter] Jones MH. **Science** 1997 Sep 19;277(5333):1746

CANNULATION see **CATHETERIZATION**

CANRENOATE POTASSIUM

PHARMACOLOGY

Effect of intravenously applied canrenoate on ampullar endolymphatic potential. Yura K, et al.
Acta Otolaryngol (Stockh) 1995 Sep;115(5):648–52
Effects of canrenoate potassium, an aldosterone antagonist on portal hemodynamics in patients with compensated liver cirrhosis. Koda M, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):887–92
Increase in the basal tone of guinea pig thoracic aorta induced by ouabain is inhibited by spironolactone canrenone and potassium canrenoate. Sorrentino R, et al.
J Cardiovasc Pharmacol 1996 Oct;28(4):519–25

CANRENOIC ACID see **CANRENOATE POTASSIUM**

CANRENONE

PHARMACOLOGY

Increase in the basal tone of guinea pig thoracic aorta induced by ouabain is inhibited by spironolactone canrenone and potassium canrenoate. Sorrentino R, et al.
J Cardiovasc Pharmacol 1996 Oct;28(4):519–25

CANTHARIDES

CANTHARIDES see **CANTHARIDIN**

CANTHARIDIN

ANALOGS & DERIVATIVES

The effects of cantharidin analogues on xanthine oxidase. Tsauer W, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2095–8

METABOLISM

Protein phosphatase in neuroblastoma cells: [3H]cantharidin binding site in relation to cytotoxicity. Laidley CW, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1152–8

PHARMACOLOGY

The effects of cantharidin analogues on xanthine oxidase. Tsauer W, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2095–8

The effect of the protein phosphatases inhibitor cantharidin on beta–adrenoceptor–mediated vasorelaxation. Knapp J, et al. **Br J Pharmacol** 1997 Feb;120(3):421–8

Effects of cantharidin on force of contraction and phosphatase activity in nonfailing and failing human hearts. Linck B, et al. **Br J Pharmacol** 1996 Oct;119(3):545–50

Inhibitors of protein kinases and phosphatases alter root morphology and disorganize cortical microtubules. Baskin TI, et al. **Plant Physiol** 1997 Feb;113(2):493–502

POISONING

Mortality in chickens associated with blister beetle consumption. Penrith ML, et al. **J S Afr Vet Assoc** 1996 Jun;67(2):97–9

Renal and neuromuscular respiratory failure—is this a syndrome associated with cantharidin poisoning? Zouvanis M, et al. **S Afr Med J** 1994 Nov;84(11 Suppl):814–6

TOXICITY

Effects of cantharidin and a phorbol ester on bud formation in Hydra vulgaris. Perez F. **Int J Dev Biol** 1996;Suppl 1:273S

CANTHAXANTHIN

ADMINISTRATION & DOSAGE

Retinoid and carotenoid angiogenesis: a possible explanation for enhanced oral carcinogenesis. Schwartz JL, et al. **Nutr Cancer** 1997;27(2):192–9

ADVERSE EFFECTS

Canthaxanthine retinopathy. Bloomenstein MR, et al. **J Am Optom Assoc** 1996 Nov;67(11):690–2

METABOLISM

4–oxo–retinoic acid is generated from its precursor canthaxanthin and enhances gap junctional communication in 10T1/2 cells. Stahl W, et al. **Adv Exp Med Biol** 1996; 387:121–8

PHARMACOLOGY

Effect of beta–carotene, canthaxanthin, or lutein on lymphocyte proliferation (in vitro) of newly hatched chicks. Haq A, et al. **Avian Dis** 1996 Oct–Dec;40(4):823–7

Ah receptor–dependent CYP1A induction by two carotenoids, canthaxanthin and beta–apo–8'–carotenal, with no affinity for the TCDD binding site. Gradelet S, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):307–15

The carotenoids beta–carotene, canthaxanthin and zeaxanthin inhibit macrophage–mediated LDL oxidation. Carpenter KL, et al. **FEBS Lett** 1997 Jan 20;401(2–3):262–6

No evidence for an inhibitory effect of beta–carotene or of canthaxanthin on the initiation of liver preneoplastic foci by diethylnitrosamine in the rat. Astorg P, et al. **Nutr Cancer** 1996;25(1):27–34

Effect of beta–carotene, canthaxanthin, lutein, and vitamin E on neonatal immunity of chicks when supplemented in the broiler breeder diets. Haq AU, et al. **Poult Sci** 1996 Sep;75(9):1092–7

THERAPEUTIC USE

Suppression of mouse skin papilloma by canthaxanthin and beta–carotene in vivo: possibility of the regression of tumorigenesis by carotenoids without conversion to retinoic acid. Katsumura N, et al. **Nutr Cancer** 1996; 26(2):203–8

TOXICITY

Occurrence of birefringent retinal inclusions in cynomolgus monkeys after high doses of canthaxanthin. Goralczyk R, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):741–52

CAOUTCHOUC see **RUBBER**

CAPD see **PERITONEAL DIALYSIS, CONTINUOUS AMBULATORY**

CAPGRAS SYNDROME

CLASSIFICATION

The "delirium" of delusional misidentification: implications for the classification of delusional misidentification syndromes [letter] Silva JA, et al. **Can J Psychiatry** 1997 Aug;42(6):665

DIAGNOSIS

Capgras syndrome and erotomanic type delusional disorder [letter; comment] Stip E, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):299. Comment on: Aust N Z J Psychiatry 1995 Mar;29(1):63–8.

Misidentifications. Burns A. **Int Psychogeriatr** 1996;8 Suppl 3:393–7; discussion 423–4

[A case of Capgras syndrome with illusion of intermetamorphosis (letter)] Chabrol H, et al. **Encephale** 1996 Sep–Oct;22(5):391 **(Fre)**

ETIOLOGY

[Capgras syndrome: comments (letter)] Duverger P. **Can J Psychiatry** 1996 Dec;41(10):667–9 **(Fre)**

HISTORY

[Capgras syndrome: evolution of the hypotheses] Debruille JB, et al. **Can J Psychiatry** 1996 Apr;41(3):181–7 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

What neurological syndromes can tell us about human nature: some lessons from phantom limbs, capgras syndrome, and anosognosia. Ramachandran VS. **Cold Spring Harb Symp Quant Biol** 1996;61:115–34 (70 ref.)

Reduced autonomic responses to faces in Capgras delusion. Ellis HD, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22; 264(1384):1085–92

Capgras syndrome: a novel probe for understanding the neural representation of the identity and familiarity of persons. Hirstein W, et al. **Proc R Soc Lond B Biol Sci** 1997 Mar 22;264(1380):437–44

PSYCHOLOGY

The antichrist delusion as a delusional misidentification syndrome of the self [letter] Silva JA, et al. **Can J Psychiatry** 1997 Feb;42(1):90

The relation of Cotard's syndrome to delusional misidentification. Silva JA, et al. **Isr J Psychiatry Relat Sci** 1996;33(3):188–93

To be or not to be at home? A neuropsychological approach to delusion for place. Sellal F, et al. **J Clin Exp Neuropsychol** 1996 Apr;18(2):234–48

Homo–erotomania for a delusional parent: erotomania with Capgras and Fregoli syndromes in a young male with learning difficulties. Mann J, et al. **J Intellect Disabil Res** 1996 Jun;40 (Pt 3):275–8

Can we learn from the clinically significant face processing deficits, prosopagnosia and Capgras delusion? Wacholtz E. **Neuropsychol Rev** 1996 Dec;6(4):203–57 (182 ref.)

Reduced autonomic responses to faces in Capgras delusion. Ellis HD, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22; 264(1384):1085–92

Capgras syndrome: a novel probe for understanding the neural representation of the identity and familiarity of persons. Hirstein W, et al. **Proc R Soc Lond B Biol Sci** 1997 Mar 22;264(1380):437–44

Delusional misidentification in autobiographical narrative. Pourgourides C, et al. **Psychopathology** 1997;30(1):20–4

[Capgras syndrome: open perspectives for cognitive neuropsychology] Debruille JB, et al. **Can J Psychiatry** 1996 May;41(4):245–50 (37 ref.) (Eng. Abstr.) **(Fre)**

CAPILLARIA

Intestinal capillariasis in neolithic inhabitants of Chalain (Jura, France) [letter] Bouchet F. **Lancet** 1997 Jan 25; 349(9047):256

Anthelmintic efficacy of ivermectin against Syngamus trachea and Capillaria spp. in pheasant. Lamka J, et al. **Vet Med (Praha)** 1997 Jun;42(6):157–60

[Third case of human hepatic capillariasis in Mexico] González Barranco D, et al. **Rev Invest Clin** 1996 Jul–Aug; 48(4):301–5 (Eng. Abstr.) **(Spa)**

METABOLISM

Experimental study of the reversibility of sinusoidal capillarization. Mori T, et al. **Alcohol Alcohol** 1994;29 Suppl 1:67–74

PHYSIOLOGY

Enterobius, trichuris, capillaria, and hookworm including ancylostoma caninum. Grencis RK, et al. **Gastroenterol Clin North Am** 1996 Sep;25(3):579–97 (90 ref.)

CAPILLARIA HEPATICA see **CAPILLARIA**

CAPILLARIES

The adequacy of capillary specimens for determining whole blood lead. Johnson NH, et al. **Ann Clin Lab Sci** 1997 May–Jun;27(3):179–84

Stromal fibroblasts are required for PC–3 human prostate cancer cells to produce capillary–like formation of endothelial cells in a three–dimensional co–culture system. Janvier R, et al. **Anticancer Res** 1997 May–Jun; 17(3A):1551–7

Biological variation of lipids and lipoproteins in fingerstick blood. Kafonek SD, et al. **Clin Chem** 1996 Dec; 42(12):2002–7

Screening children exposed to lead: an assessment of the capillary blood lead fingerstick test. Parsons PJ, et al. **Clin Chem** 1997 Feb;43(2):302–11

Ketone body ratios of capillary blood compared with that of arterial blood [letter] Sakumoto H, et al. **Clin Chim Acta** 1996 Apr 30;248(2):205–7

Capillary plasma neutrophil elastase alpha–1–proteinase inhibitor as infection parameter in neonates. Jensen JG, et al. **Scand J Clin Lab Invest** 1996 Feb;56(1):37–40

[Microvessel count and vascular endothelial growth factor in renal cell carcinoma] Sasaki R. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1032–40 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Capillary–venous malformation in the labia majora in a 12–year–old girl. Kempinaire A, et al. **Dermatology** 1997; 194(4):405–7

Nailfold capillary abnormality and pulmonary hypertension in systemic sclerosis. Ohtsuka T, et al. **Int J Dermatol** 1997 Feb;36(2):116–22

ANATOMY & HISTOLOGY

Capillary architecture in the skeletal muscles in the rat hind limb. Takahara Y, et al. **Acta Med Okayama** 1996 Aug; 50(4):211–8

The capillarity of the subendocardium of left ventricle in rats reared at a low temperature for many generations. Gao M, et al. **Acta Physiol Scand** 1997 May;160(1):67–70

A novel method to demonstrate capillary geometry and perfusion patterns in rat brain from the same histological section. Batra S, et al. **Adv Exp Med Biol** 1996;388:77–83

Three–dimensional modeling of renal glomerular capillary networks. Kaczmarek E, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):93–101

Analysis of pressurized resistance vessel diameter changes with a low cost digital image processing device. Fischer JG, et al. **Comput Methods Programs Biomed** 1996 Jun; 50(1):23–30

Capillary network morphology and capillary flow. Groom AC, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct; 15(5):223–30

Active and passive determinants of capillary density: a historical perspective. Johnson PC. **Int J Microcirc Clin Exp** 1995 Sep–Oct;15(5):218–22

Effects of particle concentration on the partitioning of suspensions at small divergent bifurcations. Ditchfield R, et al. **J Biomech Eng** 1996 Aug;118(3):287–94

Differences in capillary supply between human oro–facial, masticatory and limb muscles. Stål P, et al. **J Muscle Res Cell Motil** 1996 Apr;17(2):183–97

Magnetic resonance susceptibility contrast induced by capillaries: a numerical comparison of two models. Lo Bue F, et al. **MAGMA** 1997 Mar;5(1):39–44

Does hypercapillarization influence the branching pattern of terminal villi in the human placenta at high altitude? Ali KZ, et al. **Placenta** 1996 Nov;17(8):677–82

CHEMISTRY

A laser microprobe mass analysis of trace elements in brain mineralizations and capillaries in Fahr's disease. Bouras C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):351–7

Postnatal distribution of Glut1 glucose transporter and relative capillary density in blood–brain barrier structures and circumventricular organs during development. Zeller K, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):200–8

Agrin accumulates in the brain microvascular basal lamina during development of the blood–brain barrier. Barber AJ, et al. **Dev Dyn** 1997 Jan;208(1):62–74

CYTOLOGY

Human brain pericytes differentially regulate expression of procoagulant enzyme complexes comprising the extrinsic pathway of blood coagulation. Bouchard BA, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):1–9

Control of angiogenesis by the pericyte: molecular mechanisms and significance. Hirschi KK, et al. **EXS** 1997; 79:419–28 (46 ref.)

Identification of a subpopulation of human renal microvascular endothelial cells with capacity to form capillary–like cord and tube structures. Martin M, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):261–9

Mechanisms and implications of capillary endothelial swelling and luminal narrowing in low–flow ischemias. Mazzoni MC, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct; 15(5):265–70

Oxygen– and pressure–dependent functional capillary density

in rabbit tenuissimus muscle. Slaaf DW, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct;15(5):271–5

Studies of Plasmodium falciparum cytoadherence using immortalized human brain capillary endothelial cells. Prudhomme JG, et al. **Int J Parasitol** 1996 Jun;26(6):647–55

Effect of CO2 on intracellular pH and contraction of retinal capillary pericytes. Chen Q, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):643–51

Suppression of CO2–induced relaxation of bovine retinal pericytes by angiotensin II. Matsugi T, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):652–7

Primary culture and characterization of microvascular endothelial cells from Macaca monkey retina. Yan Q, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2185–94

Regional differentiation of the blood–epididymis barrier in stallion (Equus caballus). López ML, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):353–63

Lumen formation and other angiogenic activities of cultured capillary endothelial cells are inhibited by thrombospondin–1. Tolsma SS, et al. **Microvasc Res** 1997 Jul;54(1):13–26

Glaucoma, capillaries and pericytes. 2. Identification and characterization of retinal pericytes in culture. Anderson DR, et al. **Ophthalmologica** 1996;210(5):263–8

Pericyte loss and microaneurysm formation in PDGF–B–deficient mice. Lindahl P, et al. **Science** 1997 Jul 11;277(5323):242–5

DRUG EFFECTS

Effect of vasoactive drugs on muscle fibre types and capillaries. Torres SH, et al. **Acta Cient Venez** 1994; 45(3):199–206

The effect of linomide on the migration and the proliferation of capillary endothelial cells elicited by vascular endothelial growth factor. Parenti A, et al. **Br J Pharmacol** 1996 Oct; 119(4):619–21

Ultrastructural analysis of pulmonary capillaries after mutein VI rhTNF–alpha administration into Morris hepatoma. Sulkowska M, et al. **Folia Histochem Cytobiol** 1997; 35(2):83–4

The effect of acetylcholine on finger capillary pressure and capillary flow in healthy volunteers. Morris SJ, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):307–13

Endothelial and smooth muscle pharmacology of pre– and post–capillary microcirculation: correlation with plasma extravasation. D'Orléans–Juste P, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):31–7

Vasoactive effect of cyclosporine on the rat peribiliary capillary plexus: relationship with cholestasis and hyperbilirubinemia. Nakache R, et al. **Transplant Proc** 1997 Sep;29(6):2662–3

EMBRYOLOGY

Lingual papillae of the growing rat as a model of vasculogenesis. Okada S, et al. **Anat Rec** 1997 Feb; 247(2):253–60

Myocardial microvasculature in fetuses and neonates of rat. Stereological study. Villar VC, et al. **Ital J Anat Embryol** 1995 Oct–Dec;100(4):211–8

Microvessels of the chick chorioallantoic membrane uniformly restrict albumin extravasation during angiogenesis and endothelial cytodifferentiation. Cruz A, et al. **Tissue Cell** 1997 Jun;29(3):277–81

GROWTH & DEVELOPMENT

Lingual papillae of the growing rat as a model of vasculogenesis. Okada S, et al. **Anat Rec** 1997 Feb; 247(2):253–60

Cell autonomous functions of the receptor tyrosine kinase TIE in a late phase of angiogenic capillary growth and endothelial cell survival during murine development. Partanen J, et al. **Development** 1996 Oct;122(10):3013–21

Ultrastructural and morphometric aspects of ageing in the retinal capillaries of rats. Schellini SA, et al. **J Submicrosc Cytol Pathol** 1997 Apr;29(2):275–80

Can capillaries increase in length without any increase in the number of endothelial cells? Bonakdar MP, et al. **Med Hypotheses** 1996 Nov;47(5):383–8

The configuration of fibrin clots determines capillary morphogenesis and endothelial cell migration. Nehls V, et al. **Microvasc Res** 1996 May;51(3):347–64

Implementation of intussusceptive microvascular growth in the chicken chorioallantoic membrane (CAM): 1. pillar formation by folding of the capillary wall. Patan S, et al. **Microvasc Res** 1996 Jan;51(1):80–98

IMMUNOLOGY

Distribution of von Willebrand factor in capillary endothelial cells of rat lungs with pulmonary fibrosis. Kasper M, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):283–8

Comparison of capillary blood versus venous blood samples in the assessment of immunity to measles. Novello F, et al. **J Virol Methods** 1996 Sep;61(1–2):73–7

Antibody–mediated rejection of human renal allografts: an electron microscopic study of peritubular capillaries. Lajoie G. **Ultrastruct Pathol** 1997 May–Jun;21(3):235–42

INJURIES

Circulating intercellular adhesion molecule 1 in rheumatoid arthritis—relationship to systemic vasculitis and microvascular injury in nailfold capillary microscopy. Kuryliszyn–Moskal A, et al. **Clin Rheumatol** 1996 Jul; 15(4):367–73

METABOLISM

Pulmonary surfactant migrates into the alveolar capillaries of newborn rats: an immunoelectron microscopic study. Wasowicz M, et al. **Acta Anat (Basel)** 1996;156(1):11–21

Nonlinear model for capillary–tissue oxygen transport and metabolism. Li Z, et al. **Ann Biomed Eng** 1997 Jul–Aug; 25(4):604–19

Differential effects of endotoxin and cytokines on prostaglandin E2 formation in cerebral microvessels and brain parenchyma: implications for the pathogenesis of fever. Bishai I, et al. **Cytokine** 1996 May;8(5):371–6

Expression of receptors for native and chemically modified low–density lipoproteins in brain microvessels. Lucarelli M, et al. **FEBS Lett** 1997 Jan 13;401(1):53–8

The effect of separate red blood cells on capillary tissue oxygenation calculated with a numerical model. Bos C, et al. **IMA J Math Appl Med Biol** 1996 Dec;13(4):259–74

Transcapillary escape rate of albumin in humans during exercise–induced hypervolemia. Haskell A, et al. **J Appl Physiol** 1997 Aug;83(2):407–13

Endurance exercise training decreases capillary basement membrane width in older nondiabetic and diabetic adults. Williamson JR, et al. **J Appl Physiol** 1996 Mar;80(3):747–53

Glucose transporter GLUT1 in human brain microvessels revealed by ultrastructural immunocytochemistry. Virgintino D, et al. **J Submicrosc Cytol Pathol** 1997 Jul; 29(3):365–70

Glaucoma, capillaries and pericytes. 3. Peptide hormone binding and influence on pericytes. Ferrari–Dileo G, et al. **Ophthalmologica** 1996;210(5):269–75

Glaucoma, capillaries and pericytes. 4. Beta–adrenergic activation of cultured retinal pericytes. Zschauer AO, et al. **Ophthalmologica** 1996;210(5):276–9

Regulation of brain capillary endothelial thrombomodulin mRNA expression. Tran ND, et al. **Stroke** 1996 Dec; 27(12):2304–10; discussion 2310–1

[A mathematical model of O2 transport by erythrocytes in capillaries] Kisliakov Iulia. **Biofizika** 1996 May–Jun; 41(3):681–5 (Eng. Abstr.) **(Rus)**

[Reactivity of capillaries and pyramidal neurons in rat cerebral cortex during acute reduction of blood flow] Dirlam GG. **Biull Eksp Biol Med** 1994 May;117(5):558–60 **(Rus)**

PATHOLOGY

Clinical histochemical and immunohistochemical investigation of the capillary basal membrane in chronic venous insufficiency. Peschen M, et al. **Acta Derm Venereol** 1996 Nov;76(6):433–6

Immunohistochemical studies on clustered pericapillary bodies in the spinal cord of post–poliomyelitis patients. Ikemoto A, et al. **Acta Neuropathol (Berl)** 1996 Aug; 92(2):164–9

Persistent microvasculopathy in chronic eosinophilia–myalgia syndrome. Smith SA. **Adv Exp Med Biol** 1996;398:359–64

Relationship of polymorphonuclear leukocytes to capillary dropout in the human diabetic choroid. Lutty GA, et al. **Am J Pathol** 1997 Sep;151(3):707–14

Detection of scleroderma with capillaroscopic abnormalities of nailfolds. Maeda M, et al. **Int J Dermatol** 1996 Dec; 35(12):857–61

Microvascular pathology in the skeletal muscle paraneoplastic phenomenon. Finol HJ, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):329–34

A case of membranous nephropathy exacerbated after the use of hair dye [letter] Aburaya J. **Nephron** 1996; 74(2):449–51

Ultrastructural analysis of pulmonary capillaries in the course of experimental lung emphysema. Sulkowski S, et al. **Pol J Pathol** 1996;47(3):135–40

Breast cancer increases initiation of angiogenesis without accelerating neovessel growth rate. Watson JC, et al. **Surgery** 1997 Aug;122(2):508–13; discussion 513–4

Expression of platelet–derived growth factor in the development of cardiac allograft vasculopathy in the rat. Lemström K, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1045–6

Antibody–mediated rejection of human renal allografts: an electron microscopic study of peritubular capillaries. Lajoie G. **Ultrastruct Pathol** 1997 May–Jun;21(3):235–42

PHYSIOLOGY

Transcapillary ultrafiltration and peritoneal equilibration test in pediatric patients. Kaku Y, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):476–82

The effect of capillary blood flow on the oxygen release into rat heart tissue: model calculations with point–like sources representing the erythrocytes. Bos C, et al. **Adv Exp Med Biol** 1996;388:177–83

Erythrocyte flux in capillary networks during maturation: implications for oxygen delivery. Berg BR, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2263–73

Low–dose prostacyclin has potent capillary permeability–reducing effect in cat skeletal muscle in vivo. Möller AD, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H200–7

Cumulative conducted vasodilation within a single arteriole and the maximum conducted response. Rivers RJ. **Am J Physiol** 1997 Jul;273(1 Pt 2):H310–6

Flow–independent heterogeneity of brain capillary plasma perfusion after blood exchange with a Newtonian fluid. Vogel J, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1833–7

Capillary refilling time in newborn babies: normal values. Strozik KS, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 May;76(3):F193–6

Hindered transport of macromolecules in isolated glomeruli. I. Diffusion across intact and cell–free capillaries. Edwards A, et al. **Biophys J** 1997 Jan;72(1):204–13

A new measurement of tissue capillarity: the capillary–to–fibre perimeter exchange index. Hepple RT. **Can J Appl Physiol** 1997 Feb;22(1):11–22 (40 ref.)

Precapillary servo control of blood pressure and postcapillary adjustment of flow to tissue metabolic status. A new paradigm for local perfusion regulation. Groebe K. **Circulation** 1996 Oct 15;94(8):1876–85

Pulmonary capillary pressure. Clinical implications. Levy MM. **Crit Care Clin** 1996 Oct;12(4):819–39 (47 ref.)

A relationship between apoptosis and flow during programmed capillary regression is revealed by vital analysis. Meeson A, et al. **Development** 1996 Dec; 122(12):3929–38

Regulation of capillary formation by laminin and other components of the extracellular matrix. Grant DS, et al. **EXS** 1997;79:317–33 (64 ref.)

Control of angiogenesis by the pericyte: molecular mechanisms and significance. Hirschi KK, et al. **EXS** 1997; 79:419–28 (46 ref.)

Functional capillary density: an indicator of tissue perfusion? Nolte D, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct; 15(5):244–9

Leukocytes in capillary flow. Schmid–Schönbein GW, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct;15(5):255–64

Red blood cell mechanics and functional capillary density. Secomb TW, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct; 15(5):250–254

Flow behavior of erythrocytes in microvessels and glass capillaries: effects of erythrocyte deformation and erythrocyte aggregation. Suzuki Y, et al. **Int J Microcirc Clin Exp** 1996 Jul–Aug;16(4):187–94

Capillary flow impairment and functional capillary density. Tsai AG, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct; 15(5):238–43

Capillary–to–fiber surface ratio in rat fast–twitch hindlimb muscles after chronic electrical stimulation. Mathieu–Costello O, et al. **J Appl Physiol** 1996 Mar; 80(3):904–9

Pulmonary capillary diameters and recruitment characteristics in subpleural and interior networks. Short AC, et al. **J Appl Physiol** 1996 May;80(5):1568–73

Pulmonary capillary pressure during exercise in horses. Sinha AK, et al. **J Appl Physiol** 1996 May;80(5):1792–8

Endothelial cell differentiation into capillary structures by copolymer surfaces with phenylboronic acid groups. Aoki T, et al. **J Biomater Sci Polym Ed** 1995;7(7):539–50

Effects of particle concentration on the partitioning of suspensions at small divergent bifurcations. Ditchfield R, et al. **J Biomech Eng** 1996 Aug;118(3):287–94

Motion of red blood cells in capillaries with variable cross–sections. Secomb TW, et al. **J Biomech Eng** 1996 Nov;118(4):538–44

Brain capillary perfusion during sleep. Zoccoli G, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1312–8

In vivo angiogenic activity and hypoxia induction of heterodimers of placenta growth factor/vascular endothelial growth factor. Cao Y, et al. **J Clin Invest** 1996 Dec 1;98(11):2507–11

Biochemical characteristics of a primary blood–brain barrier cell culture system as a function of the activity of the proteases used in tissue disaggregation. Ng KY, et al. **J Neurosci Methods** 1996 Sep;68(1):49–53

Hyperpolarization of isolated capillaries from guinea–pig heart induced by K+ channel openers and glucose deprivation. Langheinrich U, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):397–408

Expression of capillary basement membrane components during sequential phases of wound angiogenesis. Sephel GC, et al. **Matrix Biol** 1996 Sep;15(4):263–79

The role of mechanical stresses in microvascular remodeling. Skalak TC, et al. **Microcirculation** 1996 Jun;3(2):143–65 (198 ref.)

Reconsidering the effect of local plasma convection in a classical model of oxygen transport in capillaries. Bos C, et al. **Microvasc Res** 1996 Jan;51(1):39–50

Capillary density in skeletal muscle of Wistar rats as a function of muscle weight and body weight. Browning J, et al. **Microvasc Res** 1996 Nov;52(3):281–7

Heterogeneous autoregulation of cerebrocortical capillary flow: evidence for functional thoroughfare channels? Hudetz AG, et al. **Microvasc Res** 1996 Jan;51(1):131–6

Capillary blood cell velocity in human skin capillaries located perpendicularly to the skin surface: measured by a new laser Doppler anemometer. Stücker M, et al. **Microvasc Res** 1996 Sep;52(2):188–92

The control of microvascular permeability and blood pressure by neutral endopeptidase. Lu B, et al. **Nat Med** 1997 Aug;3(8):904–7

Glaucoma, capillaries and pericytes. 5. Preliminary evidence that carbon dioxide relaxes pericyte contractile tone.

CAPILLARIES

Anderson DR, et al. **Ophthalmologica** 1996;210(5):280–4
Glaucoma, capillaries and pericytes. 1. Blood flow regulation. Anderson DR. **Ophthalmologica** 1996;210(5):257–62 (82 ref.)
Quantitating the capillary supply and the response to resistance training in older men. Hepple RT, et al. **Pflugers Arch** 1997 Jan;433(3):238–44
A massage for the journey: keeping leukocytes soft and silent [comment] von Andrian UH. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4825–7 (22 ref.). Comment on: Proc Natl Acad Sci U S A 1997 May 13;94(10):5338–43.
[Nailfold capillaroscopy in the study of microcirculation in childhood] Baserga M, et al. **Minerva Pediatr** 1996 Jul–Aug;48(7–8):297–301 (Eng. Abstr.) **(Ita)**
[Arterialization of the capillary network in the left ventricular subendocardium in young rats subjected to exercise training] Gao M. **Hokkaido Igaku Zasshi** 1997 Mar; 72(2):225–34 (Eng. Abstr.) **(Jpn)**
[Longitudinal gradient of oxygen tension inside cerebral cortex capillaries] Vovenko EP, et al. **Dokl Akad Nauk** 1997 Mar;353(1):121–3 **(Rus)**

PHYSIOPATHOLOGY

Upregulation of substance P receptors in angiogenesis associated with chronic airway inflammation in rats. Baluk P, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L565–71
Effects of leukocyte capillary plugging in skeletal muscle ischemia–reperfusion injury. Harris AG, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2653–60
Effects of hemorrhagic hypotension on cerebral blood flow and perfused capillaries in newborn pigs. Anwar M, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):157–62
Decreased heterogeneity of capillary plasma flow in the rat whisker–barrel cortex during functional hyperemia. Vogel J, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1300–6
Contribution of capillary endothelium to cor pulmonale development in experimental lung emphysema. Sulkowski S, et al. **J Submicrosc Cytol Pathol** 1997 Apr;29(2):257–63
Perifoveal capillary network in patients with acute central retinal vein occlusion. Remky A, et al. **Ophthalmology** 1997 Jan;104(1):33–7
Chronic hypoxia affects capillary density and geometry in pigeon pectoralis muscle. Mathieu-Costello O, et al. **Respir Physiol** 1997 Jul;109(1):39–52
Angiodysplasia, haemostasis and capillaries. A hypothesis [letter] O'Brien JR. **Thromb Res** 1996 Dec 1;84(5):385–7
[Capillaroscopy in patients with chronic alcoholic pancreatitis] Teixeira GP, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 May–Jun; 51(3):81–4 (Eng. Abstr.) **(Por)**

RADIATION EFFECTS

[Effect of laser radiation on rats uterine capillaries during folliculin injections] Chertok VM, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):718–20 **(Rus)**

ULTRASONOGRAPHY

A high–frequency continuous–wave Doppler ultrasound system for the detection of blood flow in the microcirculation. Christopher DA, et al. **Ultrasound Med Biol** 1996;22(9):1191–203

ULTRASTRUCTURE

Immunohistochemical studies on clustered pericapillary bodies in the spinal cord of post–poliomyelitis patients. Ikemoto A, et al. **Acta Neuropathol (Berl)** 1996 Aug; 92(2):164–9
Ultrastructural changes of blood capillaries in patients with microvascular angina, hypertrophic cardiomyopathy, and dilated cardiomyopathy. Suzuki H, et al. **Am J Cardiovasc Pathol** 1995;5(1):19–26
Morphology of capillary–like structures in a three–dimensional aorta/collagen gel culture. Akita M, et al. **Anat Anz** 1997 Apr;179(2):127–36
Formation of new capillary–like tubes in a three–dimensional in vitro model (aorta/collagen gel). Akita M, et al. **Anat Anz** 1997 Apr;179(2):137–47
Morphometry of capillaries in three zones of rabbit lungs fixed by vascular perfusion. Ciurea D, et al. **Anat Rec** 1996 Feb;244(2):182–92
Fine three–dimensional structure of pericytes in the vocal fold mucosa. Sato K, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):490–4
A codiffusing system as a novel model for capillary wall charge selectivity. Smit MF, et al. **Biophys Chem** 1996 Nov 29;62(1–3):73–80
Capillaries in the lamina propria of human seminiferous tubules are partly fenestrated. Ergün S, et al. **Cell Tissue Res** 1996 Oct;286(1):93–102
Exercise and dietary cholesterol alter rat myocardial capillary ultrastructure. Cosmas AC, et al. **Eur J Appl Physiol** 1997; 75(1):62–7
Morphological adaptation of capillary network in compensatory hypertrophied rat plantaris muscle. Kano Y, et al. **Eur J Appl Physiol** 1997;75(2):97–101
Appearance of the capillary endothelial glycocalyx in chronically stimulated rat skeletal muscles in relation to angiogenesis. Brown MD, et al. **Exp Physiol** 1996 Nov; 81(6):1043–6
The vasculature of the peripheral portion of the human eighth cranial nerve. Matsunaga T, et al. **Hear Res** 1996 Nov 1; 101(1–2):119–31
Repeatability of intravital capillaroscopic measurement of capillary density. Lamah M, et al. **Int J Microcirc Clin Exp** 1996 Jan–Feb;16(1):23–9
Capillary ultrastructure and functional capillary density. Mathieu–Costello O, et al. **Int J Microcirc Clin Exp** 1995 Sep–Oct;15(5):231–7
Ultrastructural changes of lung capillary endothelium in response to botulinum C2 toxin. Ermert L, et al. **J Appl Physiol** 1997 Feb;82(2):382–8
Morphological changes of capillaries associated with muscle–fiber atrophy in the extensor digitorum longus muscle of aged rats. Desaki J, et al. **J Electron Microsc (Tokyo)** 1996 Oct;45(5):364–71
Microvascular disturbances in the colonic mucosa in antibiotic–associated haemorrhagic colitis: involvement of platelet aggregation. Yonei Y, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):681–5
Evidence of a tubular system for transendothelial transport in arterial capillaries of the rete mirabile. Bendayan M, et al. **J Histochem Cytochem** 1997 Oct;45(10):1365–78
Openings in frog microvascular endothelium induced by high intravascular pressures. Neal CR, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):39–52
Casting methods of scanning electron microscopy applied to hemal lymph nodes in rats. Castenholz A, et al. **Lymphology** 1996 Sep;29(3):95–105
Morphologic sites for regulating blood flow in the exocrine pancreas. Aharinejad S, et al. **Microsc Res Tech** 1997 Jun 1–15;37(5–6):434–49
Muscle capillarization: morphological and morphometrical analyses of biopsy samples. Lexell J. **Muscle Nerve Suppl** 1997;5:S110–2 (21 ref.)
Electron–microscopic peritubular capillary lesion is a specific and useful diagnostic indicator for chronic rejection of renal allografts showing less specific morphologic lesions in the cyclosporine era. Morozumi K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):89–92
Specificity of intertubular capillary changes: comparative ultrastructural studies in renal allografts and native kidneys. Drachenberg CB, et al. **Ultrastruct Pathol** 1997 May–Jun; 21(3):227–33
Endothelial injury of capillaries in the stria vascularis of guinea pigs treated with cisplatin and gentamicin. Kohn S, et al. **Ultrastruct Pathol** 1997 May–Jun;21(3):289–99
[Microangioarchitecture of the mucosa of the antrum pyloricum in rabbit] Jackowiak H. **Anat Histol Embryol** 1996 Sep;25(3):155–9 (Eng. Abstr.) **(Ger)**
[Panoramic nailfold capillary microscopy and its application in rheumatic diseases] da Silva LS, et al. **Rev Assoc Med Bras** 1997 Jan–Mar;43(1):69–73 (27 ref.) **(Por)**

CAPILLARIES, LYMPHATIC see **LYMPHATIC SYSTEM**

CAPILLARITY

Lateral forces acting between particles in liquid films or lipid membranes. Kralchevsky PA. **Adv Biophys** 1997;34:25–39 (74 ref.)

CAPILLARY ENDOTHELIUM see **ENDOTHELIUM, VASCULAR**

CAPILLARY LEAK SYNDROME

see related
MULTIPLE ORGAN FAILURE
[Systemic capillary leak syndrome] Sala–Mateus C, et al. **An Med Interna** 1997 May;14(5):247–9 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Acute renal failure, compartment syndrome, and systemic capillary leak syndrome complicating carbon monoxide poisoning. Abdul–Ghaffar NU, et al. **J Toxicol Clin Toxicol** 1996;34(6):713–9

ETIOLOGY

Mitoxantrone extravasation and tissue necrosis [letter] Levin M, et al. **Am J Health Syst Pharm** 1996 May 15;53(10):1192, 1194
Risk factors for capillary leakage syndrome after bone marrow transplantation. Nürnberger W, et al. **Ann Hematol** 1997 May;74(5):221–4
Marrow engraftment and clinical manifestations of capillary leak syndrome. Cahill RA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):177–84
Generation of the complement activation product C5a precedes interleukin–2–induced capillary leakage syndrome. Nurnberger W, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jan; 19(1):45–9
Pulmonary capillary leak syndrome associated with the use of intravenous cyclosporin. Hussein MM, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2342–3
Induction mechanism of small intestinal lesions caused by intravenous injection of endotoxin in rats. Shindo M, et al. **Surg Today** 1996;26(8):610–7

IMMUNOLOGY

Idiopathic capillary leak syndrome: evidence of CD8–positive lymphocytes surrounding damaged endothelial cells. Cicardi M, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):417–9
[Blockade of platelet endothelial cell adhesion molecule–1 (PECAM–1, CD31) prevents endotoxin–induced microvascular leak syndrome in striated muscle of the BALB/c mouse] Nolte D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:639–42 (Eng. Abstr.) **(Ger)**

METABOLISM

Leakage of protein into lungs of preterm ventilated rabbits is correlated with activation of clotting, complement, and polymorphonuclear leukocytes in plasma. Brus F, et al. **Pediatr Res** 1996 Jun;39(6):958–65

PATHOLOGY

Idiopathic capillary leak syndrome: evidence of CD8–positive lymphocytes surrounding damaged endothelial cells. Cicardi M, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):417–9
The role of active inducible nitric oxide synthase expression in the pathogenesis of capillary leak syndrome resulting from interleukin–2 therapy in mice. Orucevic A, et al. **Lab Invest** 1997 Jan;76(1):53–65

PHYSIOPATHOLOGY

Involvement of tachykinin NK1 and NK2 receptors in substance P–induced microvascular leakage hypersensitivity and airway hyperresponsiveness in guinea–pigs. Boichot E, et al. **Eur Respir J** 1996 Jul; 9(7):1445–50

PREVENTION & CONTROL

Role of the 5–HT receptor in neurogenic inflammation in Fisher 344 rat airways. Germonpré PR, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):249–55

THERAPY

Bouhaja et al., Intensive Care Med (1994) 20:307–308 [letter; comment] Bascom JU. **Intensive Care Med** 1996 Dec; 22(12):1464–5. Comment on: Intensive Care Med 1994;20(4):307–8.

CAPILLARY PERMEABILITY

see related
CAPILLARY LEAK SYNDROME
Correlation between enhanced vascular permeability, up–regulation of cellular adhesion molecules and monocyte adhesion to the endothelium in the retina during the development of fatal murine cerebral malaria. Ma N, et al. **Am J Pathol** 1996 Nov;149(5):1745–62
Protein osmotic pressure gradients and microvascular reflection coefficients. Drake RE, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H997–1002
Substance P and bradykinin stimulate plasma extravasation in the mouse gastrointestinal tract and pancreas. Figini M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G785–93
Neutrophil enhancement of reperfusion–induced capillary fluid filtration associated with hypercholesterolemia. Harris NR, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1755–61
Reperfusion–induced leukocyte adhesion and vascular protein leakage in normal and hypercholesterolemic rats. Kurose I, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H854–60
Ischemia–reperfusion lung injury: contribution of ischemia, neutrophils, and hydrostatic pressure. Lu YT, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L46–54
Vinculin phosphorylation and barrier failure of coronary endothelial monolayers under energy depletion. Muhs A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H608–17
Plasmalemmal vesicles function as transcytotic carriers for small proteins in the continuous endothelium. Predescu SA, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H937–49
Assessment of protein permeability in normal human systemic circulation. Shanholtz C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1049–57
Plasma ANP levels and protein extravasation during graded expansion with equilibrated whole blood. Tucker VL. **Am J Physiol** 1996 Sep;271(3 Pt 2):R601–9
Hydraulic and diffusional permeabilities of isolated outer medullary descending vasa recta from the rat. Turner MR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H392–400
Pulmonary epithelial cell injury and alveolar–capillary permeability in berylliosis. Inoue Y, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):109–15
Differential permeability of blood microvasculatures in various sympathetic ganglia of rodents. Chau YP, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):259–69
Horseradish peroxidase permeation from the capillaries of the stria vascularis after inoculation of endotoxin into the middle ear. Watanabe K, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):394–8
Permeability of the gingival tissues to IgM during an experimental gingivitis study in man. Griffiths GS, et al. **Arch Oral Biol** 1997 Feb;42(2):129–36
Endothelial permeability for macromolecules. Mechanistic

aspects of pathophysiological modulation. van Hinsbergh WM. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1018–23 (61 ref.)

Activation of complement and neutrophils increases vascular permeability during air embolism. Huang KL, et al. **Aviat Space Environ Med** 1997 Apr;68(4):300–5

CT measurements of capillary permeability within nodal masses: a potential technique for assessing the activity of lymphoma. Miles KA, et al. **Br J Radiol** 1997 Jan;70:74–9

Intercellular adhesion molecule–1 (ICAM–1) upregulation in human brain tumors as an expression of increased blood–brain barrier permeability. Lossinsky AS, et al. **Brain Pathol** 1995 Oct;5(4):339–44

Metabolic and permeability changes caused by thiamine deficiency in immortalized rat brain microvessel endothelial cells. Romero IA, et al. **Brain Res** 1997 May 9; 756(1–2):133–40

Increased hepatocyte permeability surface area product for 86Rb with increase in blood flow. Goresky CA, et al. **Circ Res** 1997 May;80(5):645–54

Permeability of myocardial capillaries to hydrophilic drugs: the paracellular pathway. Morgan DJ. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov;23(10–11):975–9 (32 ref.)

Pulmonary vascular permeability after cardiopulmonary bypass and its relationship to oxidative stress. Messent M, et al. **Crit Care Med** 1997 Mar;25(3):425–9

Whole body capillary exchange of albumin. Alterations in diabetic microangiopathy. Bent–Hansen L. **Dan Med Bull** 1997 Feb;44(1):40–55 (164 ref.)

Heparin–induced structural modifications and oxidative cleavage of human serum albumin in the absence and presence of glucose—implications for transcapillary leakage of albumin in hyperglycaemia. Finotti P, et al. **Eur J Biochem** 1997 Aug 1;247(3):1000–8

Capillary filtration coefficient and urinary albumin leak at altitude. Lewis DM, et al. **Eur J Clin Invest** 1997 Jan; 27(1):64–8

Blood–ocular barrier damage: use of contrast–enhanced MRI. Manfré L, et al. **Eur Radiol** 1997;7(1):110–4

Blood–brain barrier permeability to ebiratide and TNF in acute spinal cord injury. Pan W, et al. **Exp Neurol** 1997 Aug;146(2):367–73

Cerebral microvascular permeability and CSF pH in anaesthetized rats. Wolff CB, et al. **Exp Physiol** 1995 Nov; 80(6):1053–5

Inward and outward permeability of the blood–retinal barrier in experimental myopia. Yoshida A, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S239–42

Improved reproducibility of the 'large–window' method of assessing transcapillary and interstitial fluorescein diffusion in the skin in healthy subjects and in subjects with insulin–dependent diabetes mellitus. Jager J, et al. **Int J Microcirc Clin Exp** 1997 May–Jun;17(3):150–8

Hyperventilation enhances transcapillary diffusion of sodium fluorescein. Steurer J, et al. **Int J Microcirc Clin Exp** 1996 Sep–Oct;16(5):266–70

Bedside measurement of pulmonary capillary permeability in patients with acute lung injury. What have we learned? [editorial] Rocker GM. **Intensive Care Med** 1996 Jul; 22(7):619–21 (19 ref.)

Systemic capillary leak syndrome associated with multiple myeloma of IgG kappa type. Hiraoka E, et al. **Intern Med** 1995 Dec;34(12):1220–4

Role for anions in pulmonary endothelial permeability. Griffin MP. **J Appl Physiol** 1997 Aug;83(2):615–22

Transcapillary escape rate of albumin in humans during exercise–induced hypervolemia. Haskell A, et al. **J Appl Physiol** 1997 Aug;83(2):407–13

Endothelial adherens junctions: implications in the control of vascular permeability and angiogenesis. Dejana E. **J Clin Invest** 1996 Nov 1;98(9):1949–53 (32 ref.)

Mechanism of dexamethasone suppression of brain tumor–associated vascular permeability in rats. Involvement of the glucocorticoid receptor and vascular permeability factor. Heiss JD, et al. **J Clin Invest** 1996 Sep 15;98(6):1400–8

Barrier effects of hyperosmolar signaling in microvascular endothelium of rat lung. Ragette R, et al. **J Clin Invest** 1997 Aug 1;100(3):685–92

Evidence of a tubular system for transendothelial transport in arterial capillaries of the rete mirabile. Bendayan M, et al. **J Histochem Cytochem** 1997 Oct;45(10):1365–78

Difficulties in interpreting optic disc fluorescein leakage in Leber's hereditary optic neuropathy [letter; comment] Sanders MD, et al. **J Neuroophthalmol** 1997 Jun;17(2):143 . Comment on: J Neuroophthalmol 1996 Sep;16(3):178–81.

Peripapillary fluorescein leakage in 11778 Leber's optic neuropathy [see comments] Yen MY, et al. **J Neuroophthalmol** 1996 Sep;16(3):178–81. Comment in: J Neuroophthalmol 1997 Jun;17(2):143.

Cold–injury of the cerebral cortex: immunolocalization of cellular proteins and blood–brain barrier permeability studies. Nag S. **J Neuropathol Exp Neurol** 1996 Aug; 55(8):880–8

Changes in local microvascular permeability and in the effect of intervention with 21–aminosteroid (Tirilazad) in a new experimental model of focal cortical injury in the rat. Mathew P, et al. **J Neurotrauma** 1996 Aug;13(8):465–72

Capillary leakage of a macromolecular MRI agent, carboxymethyldextran–Gd–DTPA, in the liver: pharmacokinetics and imaging implications. Siauve N, et al. **Magn Reson Imaging** 1996;14(4):381–90

A MRI spatial mapping technique for microvascular permeability and tissue blood volume based on macromolecular contrast agent distribution. Demsar F, et al. **Magn Reson Med** 1997 Feb;37(2):236–42

Quantitative magnetic resonance imaging of capillary water permeability and regional blood volume with an intravascular MR contrast agent. Schwarzbauer C, et al. **Magn Reson Med** 1997 May;37(5):769–77

Protein tyrosine phosphorylation modulates microvessel permeability in frog mesentery. Adamson RH. **Microcirculation** 1996 Jun;3(2):245–7 (13 ref.)

Vascular permeability in the peripheral autonomic and somatic nervous systems: controversial aspects and comparisons with the blood–brain barrier. Kiernan JA. **Microsc Res Tech** 1996 Oct 1;35(2):122–36 (239 ref.)

Vessel wall heparan sulfate and transcapillary passage of albumin in experimental diabetes in the rat. van den Born J, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:27–31

Control of vasogenic edema in a brain tumor model: comparison between dexamethasone and superoxide dismutase. Shoshan Y, et al. **Neurosurgery** 1996 Dec; 39(6):1206–13; discussion 1213–4

Nitric oxide is a mediator of neurogenic vascular exudation in the nose. Lane AP, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):294–300

Changes in capillary permeability during severe experimental acute pancreatitis in rats. André EA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):184–8

Alterations in endothelial barrier permeability in multiple organs during overactivation of macrophages in rats. Deng X, et al. **Shock** 1996 Aug;6(2):126–33

Microvessels of the chick chorioallantoic membrane uniformly restrict albumin extravasation during angiogenesis and endothelial cytodifferentiation. Cruz A, et al. **Tissue Cell** 1997 Jun;29(3):277–81

[The mechanisms of ET–1–induced lung edema] Hu N, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):694–6 (Eng. Abstr.) **(Chi)**

[Transvascular fluid exchange disturbed by capillary injuries] Lugrin D, et al. **Ann Fr Anesth Reanim** 1996;15(4):436–46 (Eng. Abstr.) **(Fre)**

[Selective permeability of the glomerular filtration barrier in man] Petitjean P, et al. **Nephrologie** 1996;17(2):113–6 (9 ref.) (Eng. Abstr.) **(Fre)**

[Airway hyperresponsiveness and airway mucosal permeability] Ikeda H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:37–41 (Eng. Abstr.) **(Jpn)**

[Increase in pulmonary vascular permeability caused by increased expression of Mac–1 on the surface of polymorphonuclear leukocytes] Tanita T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr; 35(4):396–401 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Effects of an intratumoral injection of human recombinant tumor necrosis factor–alpha on cerebrovascular permeability and leukocytic infiltration in a rat glioma model. Wright JL, et al. **Acta Neuropathol (Berl)** 1997 Jan; 93(1):78–86

Drug–induced alteration of endothelial permeability in the rat aorta. Potential consequences on the vessel wall. Plante GE, et al. **Adv Exp Med Biol** 1996;416:249–53

Epimer–specific actions of hepoxilins A3 and B3 on PAF– and bradykinin–evoked vascular permeability in the rat skin in vivo. Wang MM, et al. **Adv Exp Med Biol** 1996; 416:239–41

Effects of vasodilators on peritoneal solute and fluid transport in rat peritoneal dialysis. Kumano K, et al. **Adv Perit Dial** 1996;12:27–32

Effects of bicarbonate dialysis solution on peritoneal transport in rats. Suzuki K, et al. **Adv Perit Dial** 1996; 12:24–6

Ethanol–induced leukocyte adherence and albumin leakage in rat mesenteric venules: role of CD18/intercellular adhesion molecule–1. Takaishi M, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):347A–349A

Vascular endothelial growth factor regulates angiogenesis and vascular permeability in Kaposi's sarcoma. Cornali E, et al. **Am J Pathol** 1996 Dec;149(6):1851–69

C–reactive protein inhibits increased pulmonary vascular permeability induced by fMLP in isolated rabbit lungs. Abernathy VJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H507–13

Vascular endothelial growth factor increases hydraulic conductivity of isolated perfused microvessels. Bates DO, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2520–8

Vascular endothelial growth factor increases microvascular permeability via a Ca(2+)–dependent pathway. Bates DO, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H687–94

Mechanisms underlying enhanced capillary filtration induced by platelet–activating factor. Harris NR, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H127–33

Effect of nitric oxide synthase inhibitors on endothelial [Ca2+]i and microvessel permeability. He P, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H176–85

Effect of nitric oxide synthase inhibitors on basal microvessel permeability and endothelial cell [Ca2+]i. He P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H747–55

Low–dose prostacyclin has potent capillary permeability–reducing effect in cat skeletal muscle in vivo. Möller AD, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H200–7

Neuropeptide Y reduces macromolecule permeability of coronary endothelial monolayers. Noll T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1878–83

VEGF effect on vascular permeability is mediated by synthesis of platelet–activating factor. Sirois MG, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2746–56

Vascular endothelial growth factor affects permeability of brain microvessel endothelial cells in vitro. Wang W, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1973–80

Salmeterol reduces early– and late–phase plasma leakage and leukocyte adhesion in rat airways. Bolton PB, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1428–35

Impact of arachidonic versus eicosapentaenoic acid on exotonin–induced lung vascular leakage: relation to 4–series versus 5–series leukotriene generation. Grimminger F, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):513–9

Nitroglycerin does not alter pulmonary vascular permeability in isolated rabbit lungs. Thompson JS, et al. **Anesth Analg** 1997 Feb;84(2):359–62

Inhaled nitric oxide pretreatment but not posttreatment attenuates ischemia–reperfusion–induced pulmonary microvascular leak. Chetham PM, et al. **Anesthesiology** 1997 Apr;86(4):895–902

Influence of lidocaine on endotoxin–induced leukocyte–endothelial cell adhesion and macromolecular leakage in vivo. Schmidt W, et al. **Anesthesiology** 1997 Sep; 87(3):617–24

Effects of oral administration of purified micronized flavonoid fraction on increased microvascular permeability induced by various agents and on ischemia/reperfusion in the hamster cheek pouch. Bouskela E, et al. **Angiology** 1997 May;48(5):391–9

Effects of platelet activating factor on vascular permeability of the middle ear mucosa. Rhee CK, et al. **Ann Otol Rhinol Laryngol** 1997 Jul;106(7 Pt 1):604–7

Modification of the blood–brain barrier permeability by vinorelbine: effect of intracarotid infusion compared with intravenous infusion. Mouchard–Delmas C, et al. **Anticancer Drugs** 1996 Feb;7(2):213–9

Effects of novel and conventional anti–cancer agents on human endothelial permeability: influence of tumour secreted factors. Watts ME, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):71–5

In vivo effect of alpha 1–acid glycoprotein on experimentally enhanced capillary permeability in guinea–pig skin. Muchitsch EM, et al. **Arch Int Pharmacodyn Ther** 1996 May–Jun;331(3):313–21

Pentoxifylline preloading reduces endothelial injury and permeability in cardiopulmonary bypass. Tsang GM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M429–34

Dibutyryl cAMP prevents increased vascular permeability caused by air embolism in isolated rat lungs. Hsu K, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):802–6

An in vitro model for toxin–mediated vascular leak syndrome: ricin toxin A chain increases the permeability of human endothelial cell monolayers. Lindstrom AL, et al. **Blood** 1997 Sep 15;90(6):2323–34

Bradykinin and changes in microvascular permeability in the hamster cheek pouch: role of nitric oxide. Félétou M, et al. **Br J Pharmacol** 1996 Jul;118(6):1371–6

Contribution of adrenal hormones to nicotine–induced inhibition of synovial plasma extravasation in the rat. Miao FJ, et al. **Br J Pharmacol** 1997 Jan;120(2):298–304

Age–related effects of interleukin–1 beta on polymorphonuclear neutrophil–dependent increases in blood–brain barrier permeability in rats. Anthony DC, et al. **Brain** 1997 Mar;120 (Pt 3):435–44

Microvascular leakage in mouse pial venules induced by bradykinin. Yong T, et al. **Brain Inj** 1996 May;10(5):385–93

Recombinant neutral endopeptidase decreases oedema in the skin of burned guinea–pigs. Neely AN, et al. **Burns** 1996 Nov;22(7):520–3

Increased microvascular permeability induced by prolonged interleukin–2 administration is attenuated by the oxygen–free–radical scavenger dimethylthiourea. Gutman M, et al. **Cancer Immunol Immunother** 1996 Dec;43(4):240–4

A chimeric Lym–1/interleukin 2 fusion protein for increasing tumor vascular permeability and enhancing antibody uptake. Hu P, et al. **Cancer Res** 1996 Nov 1; 56(21):4998–5004

L–arginine does not reverse impaired agonist–induced increases in macromolecular efflux during diabetes mellitus. Mayhan WG. **Cardiovasc Res** 1997 Apr;34(1):215–22

The different effect of salbutamol and aminophylline on platelet activating factor–induced plasma exudation into guinea pig tracheal wall and lumen. Liu CY, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):211–6

Exogenous oxidized low–density lipoprotein injures and alters the barrier function of endothelium in rats in vivo. Rangaswamy S, et al. **Circ Res** 1997 Jan;80(1):37–44

Lipoprotein lipase increases lipoprotein binding to the artery wall and increases endothelial layer permeability by formation of lipolysis products. Rutledge JC, et al. **Circ Res** 1997 Jun;80(6):819–28

High potassium diets reduce endothelial permeability in stroke–prone spontaneously hypertensive rats. Ishimitsu T, et al. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):241–5

Effect of detergent combined with large tidal volume ventilation on alveolocapillary permeability. Taskar V, et

al. **Clin Physiol** 1996 Mar;16(2):103–14

Effects of eicosapentaenoic and gamma–linolenic acid on lung permeability and alveolar macrophage eicosanoid synthesis in endotoxic rats. Mancuso P, et al. **Crit Care Med** 1997 Mar;25(3):523–32

Effects of a purified micronized flavonoid fraction on capillary filtration in diabetic patients. Valensi PE, et al. **Diabet Med** 1996 Oct;13(10):882–8

Bradykinin–induced airway microvascular leakage is potentiated by enalaprilat but not by phosphoramidon. Klitzman D, et al. **Enzyme Protein** 1994–95;48(4):191–6

Microinjection technique for pharmacological evaluation of microvascular permeability in human skin. Herrig I, et al. **Eur J Clin Pharmacol** 1996;49(5):365–9

SR 140333 prevents potentiation by citric acid of plasma exudation induced by histamine in airways. Biyah K, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):325–8

Investigation of 6–hydroxydopamine–induced plasma extravasation in rat skin. Cambridge H, et al. **Eur J Pharmacol** 1996 Apr 22;301(1–3):151–7

Tolerance to lipopolysaccharide–induced increase in vascular permeability in mouse skin. Fujii E, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):129–34

Role of tachykinin and bradykinin receptors and mast cells in gaseous formaldehyde–induced airway microvascular leakage in rats. Ito K, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):291–8

The effect of inhaled K+ channel openers on bronchoconstriction and airway microvascular leakage in anaesthetised guinea pigs. Kidney JC, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):81–7

L–733,060, a novel tachykinin NK1 receptor antagonist; effects in [Ca2+]i mobilisation, cardiovascular and dural extravasation assays. Seabrook GR, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):129–35

Role of endogenous nitric oxide in airway microvascular leakage induced by inflammatory mediators [see comments] Kageyama N, et al. **Eur Respir J** 1997 Jan;10(1):13–9. Comment in: Eur Respir J 1997 Jan;10(1):4–5.

Modulation of retinal endothelial barrier in an in vitro model of the retinal microvasculature. Haselton FR, et al. **Exp Eye Res** 1996 Aug;63(2):211–22

Cadmium–induced alterations in blood–brain barrier permeability and its possible correlation with decreased microvessel antioxidant potential in rat. Shukla A, et al. **Hum Exp Toxicol** 1996 May;15(5):400–5

Role of pertussis toxin A subunit in neutrophil migration and vascular permeability. Brito GA, et al. **Infect Immun** 1997 Mar;65(3):1114–8

Involvement of tachykinin receptors in oedema formation and plasma extravasation induced by substance P, neurokinin A, and neurokinin B in mouse ear. Inoue H, et al. **Inflamm Res** 1996 Jul;45(7):316–23

The effects of NK1 receptor antagonists (FK224 and FK888) on agonist– and antigen–induced nasal microvascular leakage in guinea pigs. Shirasaki H, et al. **Inflamm Res** 1997 Jan;46(1):28–31

Microvascular permeability of the isolated rat heart to various solutes in well–oxygenated and hypoxic conditions. al–Haboubi HA, et al. **Int J Microcirc Clin Exp** 1996 Nov–Dec;16(6):291–301

Prostacyclin counteracts the increase in capillary permeability induced by tumour necrosis factor–alpha. Jahr J, et al. **Intensive Care Med** 1996 Dec;22(12):1453–60

Effect of high glucose on permeability of retinal capillary endothelium in vitro. Gillies MC, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):635–42

Experimental evaluation of the vascular effects and transport of an iodinated macromolecular contrast medium. Manduteanu I, et al. **Invest Radiol** 1997 Aug;32(8):447–52

Interleukin–2 increases transcapillary diffusion of sodium fluorescein in human skin. Costanzo U, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):81–6

A novel anti–inflammatory peptide inhibits endothelial cell cytoskeletal rearrangement, nitric oxide synthase translocation, and paracellular permeability increases. Wang Q, et al. **J Cell Physiol** 1997 Aug;172(2):171–82

Natural honey prevents ethanol–induced increased vascular permeability changes in the rat stomach. Mobarok Ali AT, et al. **J Ethnopharmacol** 1997 Feb;55(3):231–8

Lysophosphatidic acid increases tight junction permeability in cultured brain endothelial cells. Schulze C, et al. **J Neurochem** 1997 Mar;68(3):991–1000

Differential effects of transforming growth factor–beta 1 on interleukin–1–induced cellular inflammation and vascular permeability in the rabbit retina. Cuff CA, et al. **J Neuroimmunol** 1996 Oct;70(1):21–8

Preventive effects of unsei–in and oren–gedoku–to, Chinese traditional medicines, against rat paw oedema and abdominal constriction in mice. Wang LM, et al. **J Pharm Pharmacol** 1996 Mar;48(3):327–31

Differing effects of histamine and serotonin on microvascular permeability in anaesthetized rats. Michel CC, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):657–62

Epinephrine increases the selective permeability of epidurally administered [3H]–D–mannitol and [14C]–carboxyl–inulin across the blood–spinal cord barrier. Naidu KA, et al. **J Spinal Cord Med** 1996 Jul;19(3):176–82

Effect of Y–24180, a platelet–activating factor–receptor antagonist, on the antigen–induced airway microvascular leakage in guinea pigs. Iwahisa Y, et al. **Jpn J Pharmacol** 1996 Nov;72(3):209–15

Characterization of dextran sulfate–induced guinea pig tracheal plasma extravasation. Morimoto H, et al. **Jpn J Pharmacol** 1996 Nov;72(3):217–21

Effect of S–ethylisothiourea, a putative inhibitor of inducible nitric oxide synthase, on mouse skin vascular permeability. Muraki T, et al. **Jpn J Pharmacol** 1996 Mar;70(3):269–71

Direct effects of platelet–activating factor on glomerular capillary permeability. Sharma R, et al. **Kidney Blood Press Res** 1997;20(1):25–30

Calcium channel blockade reduces noise–induced vascular permeability in cochlear stria vascularis. Goldwyn BG, et al. **Laryngoscope** 1997 Aug;107(8):1112–6

Oxidative stress during platelet–activating factor–induced microvascular dysfunction. Kurose I, et al. **Microcirculation** 1996 Dec;3(4):401–10

Synergistic interactions between neuropeptide and histamine on the capillary permeability in rat skin: evaluation by reflectance spectrophotometry. Kakizoe E, et al. **Microvasc Res** 1997 Jul;54(1):27–34

Plasma leakage induced in postcapillary venules by the major cysteine–proteinase from Trypanosoma cruzi and its modulation by H1–blocker mepyramine. Svensjö E, et al. **Microvasc Res** 1997 Jul;54(1):93–7

Influence of several peptidase inhibitors on the pro–inflammatory effects of substance P, capsaicin and collagenase. Damas J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):662–9

The effect of the selective PAF antagonist CIS–19 on PAF– and antigen–induced bronchoconstriction, microvascular leakage and bronchial hyperreactivity in guinea–pigs. Lin CH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):210–6

Inhibition of hind–paw edema and cutaneous vascular plasma extravasation by 2–chloro–3–methoxycarbonylpropionamido–1,4–naphthoquinone (PP1D1) in mice. Wang JP, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):779–84

The influence of oxygen free radicals on the permeability of the monolayer of cultured brain endothelial cells. Imaizumi S, et al. **Neurochem Int** 1996 Aug;29(2):205–11

Differential effects of 5–HT1B/1D receptor agonists on neurogenic dural plasma extravasation and vasodilation in anaesthetized rats. Shepherd SL, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):525–33

Interleukin (IL)–6 as a pancreas carcinoma–derived vascular permeability regulator in vitro. Omi M, et al. **Pathol Res Pract** 1996 Nov;192(11):1107–12

Effects of inhaled nitric oxide on pulmonary edema and lung neutrophil accumulation in severe experimental hyaline membrane disease. Kinsella JP, et al. **Pediatr Res** 1997 Apr; 41(4 Pt 1):457–63

Effects of carbazochrome sodium sulfonate (AC–17) on oleic acid–induced lung injury. Moriuchi H, et al. **Pharmacol Toxicol** 1995 Sep;77(3):238–40

Time–dependent vascular regression and permeability changes in established human tumor xenografts induced by an anti–vascular endothelial growth factor/vascular permeability factor antibody. Yuan F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14765–70

Antihypertensive drugs and endothelial cell function. Lehoux S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):65–70

Comparison of polysucrose 15000, 51Cr–labelled ethylenediaminetetraacetic acid, and 14C–mannitol as markers of intestinal permeability in man. Oman H, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1172–7

[Pharmacological action of siwei shaoyao decoction] Fang Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr; 21(4):238–40 inside backcover (Eng. Abstr.) **(Chi)**

[Effect of sodium cromoglycate on airway vascular leakage caused by hypertonic saline in the rat trachea] Yamawaki I, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Sep; 34(9):973–7 (Eng. Abstr.) **(Jpn)**

[Effect of erythropoietin on protein permeability of rats abdominal aortic wall] Timoshenko TE, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):614–6 **(Rus)**

[The effect of electrostimulation of the hypothalamic mamillary nuclei on the vascular permeability of the skin in intact and capsaicin–pretreated rats] Tolochko ZS, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):1–5 (Eng. Abstr.) **(Rus)**

[A change in the permeability of eye microvasculature during damage to the hypothalamic nuclei in intact and rats and rats pretreated with capsaicin] Tolochko ZS, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):18–20 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Chronic ethanol consumption enhances endotoxin induced hepatic sinusoidal leukocyte adhesion. Ohki E, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):350A–355A

[Anti–C5a suppresses post–traumatic permeability damage of the lung after severe burn trauma] Schmid E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:631–4 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Quantification of liver capillary permeability using a macromolecular contrast agent for magnetic resonance imaging. Clément O, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S342–3

Spatial mapping of microvascular permeability and tissue blood volume using magnetic resonance imaging. Demsar F, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S344–6

Ultrastructural investigation of the vascular transport of an iodinated macromolecular contrast medium. Manduteanu I, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S353–5

Time and dose dependency of radiation–induced changes in tumor microvascular characteristics using contrast–enhanced magnetic resonance imaging: impact on the delivery of chemotherapeutic agents. Schmidt HC, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S347–8

Effect of transient focal ischemia on blood–brain barrier permeability in the rat: correlation to cell injury. Albayrak S, et al. **Acta Neuropathol (Berl)** 1997 Aug;94(2):158–63

The changes of skin and mesenteric microvascular permeability in adaptation to hypoxia in rats. Dubina MV, et al. **Adv Exp Med Biol** 1996;388:363–6

Computerized urea kinetic modeling to prescribe and monitor delivered Kt/V (pKt/V, dKt/V) in peritoneal dialysis. Fresenius Randomized Dialysis Prescriptions and Clinical Outcome Study (RDP/CO). Gotch FA, et al. **Adv Perit Dial** 1996;12:43–5

Correlation between effective peritoneal blood flow, blood pressure, and peritoneal transfer rates. Grzegorzewska AE, et al. **Adv Perit Dial** 1996;12:19–23

Plasminogen activator inhibitor–1 and peritoneal transport in peritoneal dialysis patients. Wadhwa NK, et al. **Adv Perit Dial** 1996;12:33–8

Discrepancy between solute transport rate and drain volume in CAPD patients with ascites. Yoon SN, et al. **Adv Perit Dial** 1996;12:39–42

Endothelin–1 myocardial clearance, production, and effect on capillary permeability in vivo. Dupuis J, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1239–45

Ca2+ entry through conductive pathway modulates receptor–mediated increase in microvessel permeability. He P, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2377–87

Functional antagonism between cAMP and cGMP on permeability of coronary endothelial monolayers. Hempel A, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1264–71

Glucosylation of small GTP–binding Rho proteins disrupts endothelial barrier function. Hippenstiel S, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L38–43

Dual role of cGMP in modulation of macromolecule permeability of aortic endothelial cells. Hölschermann H, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H91–8

Rapid mast cell activation causes leukocyte–dependent and –independent permeability alterations. Kubes P, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2438–46

Protein kinase C modulates microvascular permeability through nitric oxide synthase. Ramírez MM, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1702–5

Regulation of microvascular filtration in the myocardium by interstitial fluid pressure. Stewart RH, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1465–9

VEGF induces NO–dependent hyperpermeability in coronary venules. Wu HM, et al. **Am J Physiol** 1996 Dec; 271(6 Pt 2):H2735–9

Changes in vascular permeability and deciduoma formation during the peri–implantation period of the rat in response to exogenous gonadotropins. Kramer B. **Anat Rec** 1997 Jan;247(1):20–4

Efficient numerical methods for nonlinear–facilitated transport and exchange in a blood–tissue exchange unit. Poulain CA, et al. **Ann Biomed Eng** 1997 May–Jun; 25(3):547–64

Effect of lesion of the hypothalamic mamillary nuclei on skin blood vessel permeability in normal and capsaicin–pretreated rats. Tolochko ZS, et al. **Brain Res** 1997 Mar 28;752(1–2):324–6

Mechanisms of increased endothelial permeability. Lum H, et al. **Can J Physiol Pharmacol** 1996 Jul;74(7):787–800 (80 ref.)

Consequences of alteration in capillary permeability. Plante GE, et al. **Can J Physiol Pharmacol** 1996 Jul;74(7):824–33 (65 ref.)

Effect of amino acid based dialysate on peritoneal blood flow and permeability in stable CAPD patients: a potential role for nitric oxide? Douma CE, et al. **Clin Nephrol** 1996 May; 45(5):295–302

Endothelial function. General considerations. Haller H. **Drugs** 1997;53 Suppl 1:1–10 (78 ref.)

Nitric oxide and microvascular permeability: a continuing dilemma [editorial; comment] Kubes P. **Eur Respir J** 1997 Jan;10(1):4–5. Comment on: Eur Respir J 1997 Jan;10(1):13–9.

Starling: the formulation of his hypothesis of microvascular fluid exchange and its significance after 100 years. Michel CC. **Exp Physiol** 1997 Jan;82(1):1–30 (73 ref.)

Osmotic water permeability of capillaries from the isolated spiral ligament: new in–vitro techniques for the study of vascular permeability and diameter. Wangemann P, et al. **Hear Res** 1996 May;95(1–2):49–56

Evidence against an increase in capillary permeability in subjects exposed to high altitude. Kleger GR, et al. **J Appl Physiol** 1996 Nov;81(5):1917–23

Vagal branches involved in inhibition of bradykinin–induced synovial plasma extravasation by intrathecal nicotine and noxious stimulation in the rat. Miao FJ, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):473–81

Openings in frog microvascular endothelium induced by high intravascular pressures. Neal CR, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):39–52

Tissue protein washout in sheep lung lymph. Drake RE, et al. **Lymphology** 1996 Sep;29(3):112–7

Perfusion of single tumor microvessels: application to vascular permeability measurement. Lichtenbeld HC, et al. **Microcirculation** 1996 Dec;3(4):349–57

A shear stress component to the modulation of capillary hydraulic conductivity (Lp). Williams DA. **Microcirculation** 1996 Jun;3(2):229–32

Microvessel mural cell secretions modulate endothelial monolayer permeability. Morel NM, et al. **Microvasc Res** 1997 Mar;53(2):197–200

Electron microscopic demonstrations of filamentous molecular sieve plugs in capillary fenestrae. Rostgaard J, et al. **Microvasc Res** 1997 Jan;53(1):1–13

The control of microvascular permeability and blood pressure by neutral endopeptidase. Lu B, et al. **Nat Med** 1997 Aug;3(8):904–7

MRI mapping of microvascular permeability and tissue blood volume. Demsar F, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R263–4

Endothelial dysfunction in diabetes mellitus. Chakir M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):45–51

Endothelial permeability under physiological and pathological conditions. Tedgui A. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):27–9 (22 ref.)

Extravasation, lamina propria flooding and lumenal entry of bulk plasma exudate in mucosal defence, inflammation and repair. Persson CG, et al. **Pulm Pharmacol** 1996 Jun; 9(3):129–39 (69 ref.)

Pathophysiology of hydrops fetalis. Apkon M. **Semin Perinatol** 1995 Dec;19(6):437–46 (44 ref.)

Methods for studying microvascular barrier function in ischemia–reperfusion injury. Tucker VL, et al. **Shock** 1997 Jul;8(1):8–15 (48 ref.)

Postlaminectomy adhesion of the cauda equina. Changes of postoperative vascular permeability of the equina in rats. Nakano M, et al. **Spine** 1997 May 15;22(10):1105–14

[Reduced capillary blood flow is not related to increased ion permeability of the colon in acute pancreatitis] Hotz HG, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:413–5 (Eng. Abstr.) **(Ger)**

[Development of instrumental and technical measurement aspects for clinical capillary microscopy] Gasser P, et al. **Z Rheumatol** 1996 Jul–Aug;55(4):260–6 (30 ref.) (Eng. Abstr.) **(Ger)**

[Postischemic changes in the permeability of coronary microcirculation and ventricular remodeling] Barsotti A, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):57–65 **(Ita)**

[Ultrastructural organization of the hemato–C–cellular interactions in the thyroid gland of 4–week–old rats desympathectomized with guanethidine] Krasnoperov RA, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):678–81 **(Rus)**

[Coronary repermeabilization in acute myocardial infarction (editorial)] Martínez Martínez JA. **Medicina (B Aires)** 1995; 55(6):721–4 **(Spa)**

RADIATION EFFECTS

Modulation of the blood–aqueous barrier by light exposure in patients with uveitis. Cuzzani O, et al. **Can J Ophthalmol** 1997 Jun;32(4):244–9

Cellular and secretory mechanisms related to delayed radiation–induced microvessel dysfunction in the spinal cord of rats. Siegal T, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):649–59

CAPILLARY RESISTANCE

DRUG EFFECTS

[Morphologic effect of adrenaline and insulin on bone capillaries after receptor blockade. Functional transmission electron microscopy analysis] Döhler JR, et al. **Langenbecks Arch Chir** 1997;382(3):164–6 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

The resistance to flow of individual human neutrophils in glass capillary tubes with diameters between 4.65 and 7.75 microns. Shao JY, et al. **Microcirculation** 1997 Mar; 4(1):61–74

[Autoregulation in ischemia of the optic nerve in the human] Titzé P, et al. **Klin Monatsbl Augenheilkd** 1997 May; 210(5):308–9 (Eng. Abstr.) **(Fre)**

[Cap image—a new kind of computer–assisted video image analysis system for dynamic capillary microscopy] Klyscz T, et al. **Biomed Tech (Berl)** 1997 Jun;42(6):168–75 (Eng. Abstr.) **(Ger)**

[Development of instrumental and technical measurement aspects for clinical capillary microscopy] Gasser P, et al. **Z Rheumatol** 1996 Jul–Aug;55(4):260–6 (30 ref.) (Eng. Abstr.) **(Ger)**

CAPITAL EXPENDITURES

CLASSIFICATION

Make vs. buy. Decision checklist. Bolinger J. **Hosp Health Netw** 1997 May 20;71(10):62, 64

CAPITAL FINANCING

The private finance initiative [editorial; comment] Boyle S. **BMJ** 1997 Apr 26;314(7089):1214–5. Comment on: BMJ 1997 Apr 26;314(7089):1266–71.

What happens when the private sector plans hospital services for the NHS: three case studies under the private finance initiative. NHS Consultants' Association, Radical Statics Health Group, and the NHS Support Federation [see comments] Pollock AM, et al. **BMJ** 1997 Apr 26; 314(7089):1266–71. Comment in: BMJ 1997 Apr 26;314(7089):1214–5. Comment in: BMJ 1997 May 31;314(7094):1619–20. Comment in: BMJ 1997 May 31;314(7094):1620; discussion 1621. Comment in: BMJ 1997 May 31;314(7094):1620–1. Comment in: BMJ 1997 May 31;314(7094):1621.

Finance ... bad tidings for hospitals in Philadelphia and Pittsburgh [news] **Hosp Health Netw** 1997 Aug 5;71(15):12

The managerial revolution: medicine as a business. Nichol D. **Med Educ** 1995;29 Suppl 1:41–3

Community–based health insurance [letter; comment] Tang SL. **World Health Forum** 1997;18(1):63–4. Comment on: World Health Forum 1996;17(1):58–62.

LEGISLATION & JURISPRUDENCE

Crisis in our midst [see comments] Coates J, et al. **Can Vet J** 1997 Feb;38(2):75–7. Comment in: Can Vet J 1997 May;38(5):261. **(Eng, Fre)**

United we stand, divided we fall! [editorial; comment] Hare D. **Can Vet J** 1997 Feb;38(2):69–70. Comment on: Can Vet J 1997 Feb;38(2):75–7. **(Eng, Fre)**

Taking the provider–driven company public: a primer on business and legal issues. Becker S, et al. **J Health Care Finance** 1996 Summer;22(4):71–80

METHODS

Capital: who's got it? How to get it! Blecher MB. **Hosp Health Netw** 1997 Jun 20;71(12):38–40, 42, 44 passim

ORGANIZATION & ADMINISTRATION

Investing in the twenty–first century hospital. Manning DL. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):108–11

A framework for the management of intellectual capital in the health care industry. Grantham CE, et al. **J Health Care Finance** 1997 Spring;23(3):1–19 (52 ref.)

STANDARDS

A framework for evaluating capital structure. Sterns JB, et al. **J Health Care Finance** 1995 Winter;22(2):80–5

STATISTICS & NUMERICAL DATA

Assessing the characteristics of hospital bond defaults. McCue MJ, et al. **Med Care** 1996 Nov;34(11):1121–34

TRENDS

Capital spending. Loan program on borrowed time? Meyer HR. **Hosp Health Netw** 1997 Aug 5;71(15):61–2

CAPITAL PUNISHMENT

Adolescents' attitudes toward the death penalty. Lester D, et al. **Adolescence** 1997 Summer;32(126):447–9

Physician participation in capital punishment: evaluating competence of condemned prisoners; treating condemned prisoners to restore competence. Council on Ethical and Judicial Affairs, American Medical Association. **Tex Med** 1997 Feb;93(2):50–2

LEGISLATION & JURISPRUDENCE

Medical ethics and the executing process in the United States of America. Michalos C. **Med Law** 1997;16(1):125–68

People with mental retardation are dying, legally [published erratum appears in Ment Retard 1997 Apr;35(2):92] Keyes D, et al. **Ment Retard** 1997 Feb;35(1):59–63

CAPITALISM see POLITICAL SYSTEMS

CAPITATION FEE

Impact of capitation on free–standing dialysis facilities: can you survive? McMurray SD, et al. **Am J Kidney Dis** 1997 Oct;30(4):542–8

The evolution of physician credentialing into managed care selective contracting. Blum JD. **Am J Law Med** 1996; 22(2–3):173–203 (0 ref.)

Estimation of capitation expense for specialty services. Ward ME. **Ann Thorac Surg** 1996 Nov;62(5 Suppl):S26–30; discussion S31–2

Physician payment policies: impacts and implications. Rice T. **Annu Rev Public Health** 1997;18:549–65 (32 ref.)

Fatal flaw of Stanton's doomsday Rx [letter; comment] Rehder PA. **Arch Dermatol** 1996 Oct;132(10):1247. Comment on: Arch Dermatol 1996 Apr;132(4):387–9.

The good, the bad, and the ugly [letter] Davidson TM. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):115

Pediatric carve outs. The use of disease–specific conditions as risk adjusters in capitated payment systems. Andrews JS, et al. **Arch Pediatr Adolesc Med** 1997 Mar;151(3):236–42

The tyranny of capitation. Health care in the belly of the beast. Danto LA. **Arch Surg** 1997 Jun;132(6):579–85

An assessment of capitation in the General Dental Service Contract. 1. The level of caries and its treatment in regularly attending children and adolescents. Holloway PJ, et al. **Br Dent J** 1997 Jun 14;182(11):418–23

An assessment of capitation in the General Dental Service contract 2. Patterns of treatment provided to regularly attending patients. Mellor AC, et al. **Br Dent J** 1997 Jun 28;182(12):460–4

A new primary care rostering and capitation system in Norway: lessons for Canada? Ostbye T, et al. **CMAJ** 1997 Jul 1;157(1):45–50

Family physician perception of economic incentives for the provision of office procedures. Leider PJ, et al. **Fam Med** 1997 May;29(5):318–20

"The PACE Evaluation": two responses [letter; comment] Coulam RF, et al. **Gerontologist** 1996 Feb;36(1):7; discussion 8–9. Comment on: Gerontologist 1995 Jun;35(3):349–59.

Physician earnings at risk: an examination of capitated contracts. Simon CJ, et al. **Health Aff (Millwood)** 1997 May–Jun;16(3):120–6

Strategic options in capital budgeting and program selection under fee–for–service and managed care. Magiera FT, et al. **Health Care Manage Rev** 1996 Fall;21(4):7–17

What really happens when capitation arrives? Strategies for successful integration into anesthesia practices. Dritz RA. **Int Anesthesiol Clin** 1995 Fall;33(4):151–62

Partial capitation of Medicaid services [letter; comment] Saver BG. **J Fam Pract** 1996 Sep;43(3):222–3. Comment on: J Fam Pract 1996 Apr;42(4):362–8.

Primary care physicians and capitated reimbursement. Experience, attitudes, and predictors. Cykert S, et al. **J Gen Intern Med** 1997 Mar;12(3):192–4

Capitation, disease management, and physician liability. Frenkel M. **J Health Care Finance** 1997 Spring;23(3):87–90 (0 ref.)

Mental health costs, other public costs, and family burden among mental health clients in capitated integrated service agencies. Chandler D, et al. **J Ment Health Adm** 1997 Spring;24(2):178–88

Capitation in dentistry and appropriate dental care. Friedman JW. **J Public Health Dent** 1996 Fall;56(6):306–8

Risk–adjustment methods based on health status and functional status [letter; comment] Allman RM. **JAMA** 1997 Feb 19;277(7):530–1. Comment on: JAMA 1996 Oct 23–30;276(16):1316–21.

Aggressive medical care at the end of life. Does capitated reimbursement encourage the right care for the wrong reason? [editorial; comment] Curtis JR, et al. **JAMA** 1997 Sep 24;278(12):1025–6. Comment on: JAMA 1997 Sep 24;278(12):1001–7.

Taking health status into account when setting capitation rates: a comparison of risk–adjustment methods [see comments] Fowles JB, et al. **JAMA** 1996 Oct 23–30; 276(16):1316–21. Comment in: JAMA 1997 Feb 19;277(7):530–1.

Quality assurance in capitated physician groups. Where is the emphasis? Kerr EA, et al. **JAMA** 1996 Oct 16; 276(15):1236–9

Primary care physicians' satisfaction with quality of care in California capitated medical groups. Kerr EA, et al. **JAMA** 1997 Jul 23–30;278(4):308–12

The Oregon capitation initiative: lessons and warnings, from the forefront of the backlash. Wynia MK. **JAMA** 1996 Nov 6;276(17):1441–4

Role of specialty care for chronic diseases: a report from an ad hoc committee of the American College of Rheumatology. Committee of the American College of Rheumatology Council on Health Care Research [published erratum appears in Mayo Clin Proc 1997 Feb;72(2):192] **Mayo Clin Proc** 1996 Dec;71(12):1179–81

Physicians should expose capitation as the flawed system it is [letter; comment] Dodd MJ. **Md Med J** 1997 Apr; 46(4):170. Comment on: Md Med J 1997 Jan;46(1):13.

Capitation: a moral issue in the managed care paradigm [see comments] Seigel MS, et al. **Md Med J** 1997 Jan;46(1):13 . Comment in: Md Med J 1997 Apr;46(4):170. Comment in: Md Med J 1997 Apr;46(4):170–1.

Capitation can be beneficial to providers and patients [letter; comment] Weiss MD. **Md Med J** 1997 Apr;46(4):170–1. Comment on: Md Med J 1997 Jan;46(1):13.

Medicaid capitation. Bouffard K. **Mich Med** 1996 Dec; 95(12):20–6

Capitation rates. A survival primer for capitated environment—Part 1. Cawley K. **Mich Med** 1996 Sep; 95(9):30–2

From PSP to capitation. Ford AM. **Mich Med** 1996 Dec; 95(12):30–3

An income–based approach for evaluating the financial components of capitated managed care contracts. Hanebutt GR. **Mo Med** 1997 Jan;94(1):12–4

Preparing a per–member–per–month capitated bid to a managed care plan. White GM. **Mo Med** 1996 Mar; 93(3):116–8

Quality of health care. Part 5: Payment by capitation and

the quality of care [see comments] Berwick DM. **N Engl J Med** 1996 Oct 17;335(16):1227–31. Comment in: N Engl J Med 1997 Mar 13;336(11):805; discussion 807.
Series on the quality of health care [letter; comment] Greenwald MS. **N Engl J Med** 1997 Mar 13;336(11):805; discussion 807. Comment on: N Engl J Med 1996 Oct 17;335(16):1227–31.
Effect of conversion from a fee–for–service plan to a capitation reimbursement system on a circumscribed outpatient radiology practice of 20,000 persons. Kangarloo H, et al. **Radiology** 1996 Oct;201(1):79–84
Per capita remuneration of private practitioners performing state hospital services [letter] de Villiers VP. **S Afr Med J** 1996 Oct;86(10):1296
How can vascular surgery survive capitated care? Rutherford RB. **Semin Vasc Surg** 1997 Jun;10(2):106–12

LEGISLATION & JURISPRUDENCE

The fraud and abuse statute in an evolving health care marketplace: life in the health care speakeasy. Blumstein JF. **Am J Law Med** 1996;22(2–3):205–31 (0 ref.)
Provider sponsored organizations and provider service networks––rationale and regulation. Hirshfeld EB. **Am J Law Med** 1996;22(2–3):263–300 (0 ref.)
'To dream the impossible dream...' [editorial] Meskin LH. **J Am Dent Assoc** 1996 Nov;127(11):1568, 1570, 1572
Capitation: the legal implications of using capitation to affect physician decision–making processes. Ruskin A. **J Contemp Health Law Policy** 1997 Spring;13(2):391–421 (169 ref.)
Client outcomes in two model capitated integrated service agencies. Chandler D, et al. **Psychiatr Serv** 1996 Feb; 47(2):175–80

ORGANIZATION & ADMINISTRATION

The future role of managed care and capitation in worker's compensation. Hashimoto DM. **Am J Law Med** 1996; 22(2–3):233–61 (0 ref.)
Procedural protections for patients in capitated health plans. Kinney ED. **Am J Law Med** 1996;22(2–3):301–30 (0 ref.)
Capitation, advances in medical technology, and the advent of a new era in medical ethics. Malinowski MJ. **Am J Law Med** 1996;22(2–3):331–60 (0 ref.)
Foreward: The promise and problems of capitation. Miller FH. **Am J Law Med** 1996;22(2–3):167–72
Insurance regulation of providers that bear risk. Overbay A, et al. **Am J Law Med** 1996;22(2–3):361–87 (0 ref.)

STANDARDS

Capitated care is ethical. Durfee DA. **Arch Ophthalmol** 1997 Sep;115(9):1194–5
Capitated care is unethical. Packer S. **Arch Ophthalmol** 1997 Sep;115(9):1195–6

TRENDS

Medical groups in California: managing care under capitation. Trauner JB, et al. **Health Aff (Millwood)** 1996 Spring;15(1):159–70
Commentary on capitation. Wiggins SF. **J Health Care Finance** 1996 Summer;22(4):10–4
Incompatibility of capitation and government grant–in–aid programs. Ford WE. **Psychiatr Serv** 1996 Aug;47(8):795–6, 801
Advantages of working in a capitated mental health system. Godschalx S. **Psychiatr Serv** 1996 May;47(5):477–8

CAPNOCYTOPHAGA

Man's best friend: life threatening sepsis after minor dog bite [see comments] Mellor DJ, et al. **BMJ** 1997 Jan 11; 314(7074):129–30. Comment in: BMJ 1997 Jan 11;314(7074):88–90.
Vertebral osteomyelitis due to Capnocytophaga species in immunocompetent patients: report of two cases and review. Duong M, et al. **Clin Infect Dis** 1996 Jun;22(6):1099–101 (15 ref.)
Diagnosis: Capnocytophaga canimorsus septicemia. Mossad SB, et al. **Clin Infect Dis** 1997 Feb;24(2):123, 267
Liver abscess caused by Capnocytophaga species. Weber G, et al. **Clin Infect Dis** 1997 Jul;25(1):152–3
Capnocytophaga canimorsus infections in human: review of the literature and cases report. Lion C, et al. **Eur J Epidemiol** 1996 Oct;12(5):521–33 (83 ref.)
Beware of the dog! [letter; comment] Bhandari S. **Nephrol Dial Transplant** 1997 Mar;12(3):620–1. Comment on: Nephrol Dial Transplant 1996 Sep;11(9):1839–40.
Capnocytophaga chorioamnionitis after oral sex. Hansen LM, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):731
Capnocytophaga canimorsus endophthalmitis. Zimmer–Galler IE, et al. **Retina** 1996;16(2):163–4
Vertebral osteomyelitis due to Capnocytophaga. Piroth C, et al. **Rev Rhum Engl Ed** 1995 Dec;62(11):798–801

CLASSIFICATION

Differentiation of human Capnocytophaga species by multilocus enzyme electrophoretic analysis and serotyping of immunoglobulin A1 proteases. Frandsen EV, et al. **Microbiology** 1996 Feb;142 (Pt 2):441–8

DRUG EFFECTS

Sensitivity of periodontal pathogens to the bactericidal activity of synthetic protegrins, antibiotic peptides derived from porcine leukocytes. Miyasaki KT, et al. **J Dent Res** 1997 Aug;76(8):1453–9

ENZYMOLOGY

Differentiation of human Capnocytophaga species by multilocus enzyme electrophoretic analysis and serotyping of immunoglobulin A1 proteases. Frandsen EV, et al. **Microbiology** 1996 Feb;142 (Pt 2):441–8

GENETICS

Novel FNR homologues identified in four representative oral facultative anaerobes: Capnocytophaga ochracea, Capnocytophaga sputigena, Haemophilus aphrophilus, and Actinobacillus actinomycetemcomitans. Hattori T, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):213–20

IMMUNOLOGY

Inhibition of Prevotella and Capnocytophaga immunoglobulin A1 proteases by human serum. Frandsen EV, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):458–64

ISOLATION & PURIFICATION

Capnocytophaga canimorsus sepsis complicated by myocardial infarction in two patients with normal coronary arteries. Ehrbar HU, et al. **Clin Infect Dis** 1996 Aug; 23(2):335–6
Capnocytophaga meningitis in a cancer patient. Kim JO, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):636–7 (11 ref.)

PATHOGENICITY

Capnocytophaga canimorsus septicemia in Denmark, 1982–1995: review of 39 cases. Pers C, et al. **Clin Infect Dis** 1996 Jul;23(1):71–5 (49 ref.)
Beware of the dog! A syndrome resembling thrombotic thrombocytopenic purpura associated with Capnocytophaga canimorsus septicaemia [see comments] Finn M, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1839–40. Comment in: Nephrol Dial Transplant 1997 Mar;12(3):620–1.

CAPNOGRAPHY

The detection of carbon dioxide embolism during laparoscopy in pigs: a comparison of transesophageal Doppler and end–tidal carbon dioxide monitoring. Mann C, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):281–6
Capnography during jet ventilation for laryngoscopy. Gottschalk A, et al. **Anesth Analg** 1997 Jul;85(1):155–9
Noninvasive monitoring of carbon dioxide during respiratory failure in toddlers and infants: end–tidal versus transcutaneous carbon dioxide. Tobias JD, et al. **Anesth Analg** 1997 Jul;85(1):55–8
Capnography during fiberoptic bronchoscopy to verify tracheal intubation. Wolf LH, et al. **Anesth Analg** 1997 Sep; 85(3):701–3
Utility of the expiratory capnogram in the assessment of bronchospasm. Yaron M, et al. **Ann Emerg Med** 1996 Oct; 28(4):403–7
Can prolonged expiration manoeuvres improve the prediction of arterial PCO2 from end–tidal PCO2? Tavernier B, et al. **Br J Anaesth** 1997 May;78(5):536–40
Noninvasive capnometry monitoring for respiratory status during pediatric seizures. Abramo TJ, et al. **Crit Care Med** 1997 Jul;25(7):1242–6
Physiologically based indices of volumetric capnography in patients receiving mechanical ventilation. Romero PV, et al. **Eur Respir J** 1997 Jun;10(6):1309–15
Capnography for monitoring non–intubated spontaneously breathing patients in an emergency room setting. Egleston CV, et al. **J Accid Emerg Med** 1997 Jul;14(4):222–4
Removal of retained air during cardiac surgery with transesophageal echocardiography and capnography. Hoka S, et al. **J Clin Anesth** 1997 Sep;9(6):457–61
Capnography and ventilatory assessment during ambulatory dentoalveolar surgery. Bennett J, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):921–5;discussion 925–6
End–tidal carbon dioxide and outcome of out–of–hospital cardiac arrest. Levine RL, et al. **N Engl J Med** 1997 Jul 31;337(5):301–6
The value of end–tidal CO2 monitoring when comparing three methods of conscious sedation for children undergoing painful procedures in the emergency department. Hart LS, et al. **Pediatr Emerg Care** 1997 Jun; 13(3):189–93
Carbon monoxide and bilirubin production in neonates. Stevenson DK, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):252–4
[Intraoperative monitoring of respiratory function] Suwa K. **Masui** 1996 Dec;45 Suppl:S187–91 (2 ref.) **(Jpn)**

INSTRUMENTATION

A portable quantitative capnometer in test. Petroianu GA, et al. **Am J Emerg Med** 1996 Oct;14(6):586–7
A simple method for the continuous noninvasive estimate of cardiac output using the Maxima breathing system. A pilot study. Miller DM, et al. **Anaesth Intensive Care** 1997 Feb;25(1):23–8
Cost–benefit analysis study contains serious deficiencies [letter; comment] Derrick SJ. **Anesth Analg** 1996 Nov; 83(5):1132–3. Comment on: Anesth Analg 1996 Mar;82(3):506–10.
Analysis of a straight–line capnographic waveform [letter] Hussain S, et al. **Anesth Analg** 1997 Aug;85(2):465
Prolonged "phantom" square wave capnograph tracing after patient disconnection or extubation. Potential hazard associated with the Siemens Servo 900c ventilator. Ginosar Y, et al. **Anesthesiology** 1997 Mar;86(3):729–35
An unusual capnogram [letter] Gozal Y, et al. **Anesthesiology** 1997 Aug;87(2):453–4
A choking hazard during nasal end–tidal CO2 monitoring [letter] Pan PH. **Anesthesiology** 1997 Aug;87(2):451
Vitalert 3200 Capnometer alarm [letter] Lang S. **Can J Anaesth** 1996 Sep;43(9):985–6
Prevention of occlusion of sampling tubes in side–steam capnographs [letter] Shankar KB, et al. **Can J Anaesth** 1997 Apr;44(4):453
Cardiogenic oscillations may be masked by the breathing system configuration. Haridas RP, et al. **J Clin Monit** 1997 Jul;13(4):269–72
Carbon dioxide monitors, exhaled gas. Nobel JJ. **Pediatr Emerg Care** 1996 Jun;12(3):239–40
[Simultaneous measurements of end–expiratory and transcutaneous carbon dioxide partial pressure in ventilated premature and newborn infants] Arsowa S, et al. **Klin Padiatr** 1997 Mar–Apr;209(2):47–53 (Eng. Abstr.) **(Ger)**

METHODS

Continuous gastric tonometry as a monitor of intestinal perfusion [letter] Shaw AD, et al. **Anaesthesia** 1997 Jul; 52(7):709–10
Continuous assessment of gastric intramucosal PCO2 and pH in hemorrhagic shock using capnometric recirculating gas tonometry. Guzman JA, et al. **Crit Care Med** 1997 Mar; 25(3):533–7
Use of capnography to detect hypercapnic episodes during weaning from mechanical ventilation. Saura P, et al. **Intensive Care Med** 1996 May;22(5):374–81
Measurement of pulmonary CO2 elimination must exclude inspired CO2 measured at the capnometer sampling site. Breen PH, et al. **J Clin Monit** 1996 May;12(3):231–6
Assessment of errors when expiratory condensate PCO2 is used as a proxy for mixed expired PCO2 during mechanical ventilation. Imanaka H, et al. **J Clin Monit** 1997 Jul; 13(4):215–22
Noninvasive capnometry in a pediatric population with respiratory emergencies. Abramo TJ, et al. **Pediatr Emerg Care** 1996 Aug;12(4):252–4

CAPPING, IMMUNOLOGIC see **IMMUNOLOGIC CAPPING**

CAPPING, RECEPTOR see **RECEPTOR AGGREGATION**

CAPRIC ACIDS see **DECANOIC ACIDS**

CAPRINE ARTHRITIS–ENCEPHALITIS VIRUS see **ARTHRITIS–ENCEPHALITIS VIRUS, CAPRINE**

CAPRINES see **GOATS**

CAPRIPOXVIRUS

IMMUNOLOGY

Identification and characterization of differentiating soluble antigens of sheep and goat poxviruses. Rao TV, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):259–62

CAPROATES

Effect of alpha–ketoisocaproate and leucine on the in vivo oxidation of glutamate and glutamine in the rat brain. Zielke HR, et al. **Neurochem Res** 1997 Sep;22(9):1159–64

CAPROLACTAM

ANALOGS & DERIVATIVES

The Lichtenstein open tension–free inguinal hernia repair using a new prosthetic mesh–Bulgarian irresorbable ampoxen. Velitchkov NG, et al. **Int Surg** 1996 Apr–Jun; 81(2):205–9
Improved blood compatibility of drawn polyamide sheets. Tanaka H, et al. **J Biomater Sci Polym Ed** 1996;8(3):211–24
[Primary abdominal parietorrhaphy and the cure of eventrations with the relon monofilament suture (N.I. 2402/76)] Constantinoiu S, et al. **Chirurgia (Bucur)** 1997 Mar–Apr;92(2):115–9 (Eng. Abstr.) **(Rum)**

CHEMICAL SYNTHESIS

Synthesis and anticonvulsant activities of 3,3–dialkyl– and 3–alkyl–3–benzyl–2–piperidinones (delta–valerolactams) and hexahydro–2H–azepin–2–ones (epsilon–caprolactams). Reddy PA, et al. **J Med Chem** 1997 Jan 3;40(1):44–9

CAPRYLATES

METABOLISM

Production of high levels of 8:0 and 10:0 fatty acids in transgenic canola by overexpression of Ch FatB2, a thioesterase cDNA from Cuphea hookeriana. Dehesh K, et al. **Plant J** 1996 Feb;9(2):167-72

PHARMACOKINETICS

Transport, metabolism and distribution space of octanoate in the perfused rat liver. Ferraresi-Filho O, et al. **Cell Biochem Funct** 1997 Jun;15(2):69-80

PHARMACOLOGY

Effect of polyol fatty acid esters on diclofenac permeation through rat skin. Takahashi K, et al. **Biol Pharm Bull** 1996 Jun;19(6):893-6

[Ethyl 4-methyloctanoate, major component of male pherome in Oryctes rhinoceros (L.) (Coleoptera, Dynastidae)] Morin JP, et al. **C R Acad Sci III** 1996 Jul; 319(7):595-602 (Eng. Abstr.) **(Fre)**

CAPSAICIN

Vanilloid receptor loss is independent of the messenger plasticity that follows systemic resiniferatoxin administration. Farkas-Szallasi T, et al. **Brain Res** 1996 May 6;719(1-2):213-8

Perceived irritation during ingestion of capsaicin or piperine: comparison of trigeminal and non-trigeminal areas. Rentmeister-Bryant H, et al. **Chem Senses** 1997 Jun; 22(3):257-66

Chilli, capsaicin and the stomach. Kang JY. **Clin Sci (Colch)** 1996 Sep;91(3):252-4 (25 ref.)

The effect of Ketamine on stimulation of primary and secondary hyperalgesic areas induced by capsaicin--a double-blind, placebo-controlled, human experimental study [published erratum appears in Pain 1996 Dec;68(2-3):439] Andersen OK, et al. **Pain** 1996 Jul; 66(1):51-62

Blockade of calcium channels can prevent the onset of secondary hyperalgesia and allodynia induced by intradermal injection of capsaicin in rats. Sluka KA. **Pain** 1997 Jun;71(2):157-64

The effects of G-protein and protein kinase inhibitors on the behavioral responses of rats to intradermal injection of capsaicin. Sluka KA, et al. **Pain** 1997 Jun;71(2):165-78

Vanilloid receptors: new insights enhance potential as a therapeutic target. Szallasi A, et al. **Pain** 1996 Dec; 68(2-3):195-208 (172 ref.)

[Gastroprotective effect of an antacid coating agent in rats. Role of endogenous prostaglandins, capsaicin-sensitive afferents neurons and nitric oxide] Ramaholimihaso F, et al. **Gastroenterol Clin Biol** 1997;21(5):370-6 (Eng. Abstr.) **(Fre)**

ADMINISTRATION & DOSAGE

Effects of topical application of capsaicin to human skin: a comparison of effects evaluated by visual assessment, sensation registration, skin blood flow and cutaneous impedance measurements. Magnusson BM, et al. **Acta Derm Venereol** 1996 Mar;76(2):129-32

The effect of topical capsaicin on substance P immunoreactivity: a clinical trial and immunohistochemical analysis [letter; comment] Munn SE, et al. **Acta Derm Venereol** 1997 Mar;77(2):158-9. Comment on: Acta Derm Venereol 1996 Mar;76(2):161.

Acute and neonatal capsaicin treatment inhibit jejunal amino acid absorption through a Na+-dependent mechanism. Barada KA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G815-21

Phase III placebo-controlled trial of capsaicin cream in the management of surgical neuropathic pain in cancer patients. Ellison N, et al. **J Clin Oncol** 1997 Aug;15(8):2974-80

Capsaicin in diet does not affect glycogen contents in the liver and skeletal muscle of rats before and after exercise. Matsuo T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Jun; 42(3):249-56

Intravesical capsaicin in neurologic impaired patients with detrusor hyperreflexia. Das A, et al. **J Spinal Cord Med** 1996 Jul;19(3):190-3

MEN 11,420, a peptide tachykinin NK2 receptor antagonist, reduces motor responses induced by the intravesical administration of capsaicin in vivo. Lecci A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):182-8

Effect of capsaicin on airway responsiveness to hypertonic saline challenge in asthmatic and non-asthmatic children. Chang AB, et al. **Pediatr Pulmonol** 1997 Jun;23(6):412-6

[Structural changes in the tissues of white rats after capsaicin administration] Vorob'eva NF, et al. **Morfologiia** 1997; 111(2):59-63 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Capsaicin and cajun claw syndrome [letter] Dooley DP, et al. **Am Fam Physician** 1996 Nov 1;54(6):1890

Peripherally administrated morphine attenuates capsaicin-induced mechanical hypersensitivity in humans. Kinnman E, et al. **Anesth Analg** 1997 Mar;84(3):595-9

Oleoresin capsicum (Cap-Stun) toxicity from aerosol exposure. Watson WA, et al. **Ann Pharmacother** 1996 Jul-Aug;30(7-8):733-5

No release of histamine and substance P in capsaicin-induced neurogenic inflammation in intact human skin in vivo: a microdialysis study. Petersen LJ, et al. **Clin Exp Allergy** 1997 Aug;27(8):957-65

Dose-dependent protective effect of BPC 157 on capsaicin-induced rhinitis in rats. Kalogjera L, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S9-11

The acoustic properties of capsaicin-induced cough in healthy subjects. Doherty MJ, et al. **Eur Respir J** 1997 Jan;10(1):202-7

Female gender as a determinant of cough threshold to inhaled capsaicin. Fujimura M, et al. **Eur Respir J** 1996 Aug; 9(8):1624-6

Differential effects of noxious conditioning stimulation of the cheek by capsaicin on human sensory and inhibitory masseter reflex responses evoked by tooth pulp stimulation. Kemppainen P, et al. **J Dent Res** 1997 Sep;76(9):1561-8

Secondary hyperalgesia to mechanical but not heat stimuli following a capsaicin injection in hairy skin. Ali Z, et al. **Pain** 1996 Dec;68(2-3):401-11

Cough threshold for capsaicin increases by azelastine in patients with cough-variant asthma. Shioya T, et al. **Pulm Pharmacol** 1996 Feb;9(1):59-62

ANALOGS & DERIVATIVES

Tachykinin-independent effects of capsaicin on smooth muscle in human isolated bronchi. Ellis JL, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):751-5

Capsinolol: the first beta-adrenoceptor blocker with an associated calcitonin gene-related peptide releasing activity in the heart. Chen IJ, et al. **Br J Pharmacol** 1996 Sep; 119(1):7-14

Capsazepine block of voltage-activated calcium channels in adult rat dorsal root ganglion neurones in culture. Docherty RJ, et al. **Br J Pharmacol** 1997 Aug;121(7):1461-7

Enhancement of rat trigeminal ganglion neuron responses to piperine in a low-pH environment and block by capsazepine. Martenson ME, et al. **Brain Res** 1997 Jun 27; 761(1):71-6

Effects of the capsaicin analogue resiniferatoxin on spinal nociceptive mechanisms in the rat: behavioral, electrophysiological and in situ hybridization studies. Xu XJ, et al. **Brain Res** 1997 Mar 28;752(1-2):52-60

Determination of a new non-narcotic analgesic, DA-5018, in plasma, urine and bile by high-performance liquid chromatography. Shim HJ, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):422-6

The selective capsaicin antagonist capsazepine abolishes the antinociceptive action of eugenol and guaiacol. Ohkubo T, et al. **J Dent Res** 1997 Apr;76(4):848-51

Analogues of capsaicin with agonist activity as novel analgesic agents: structure-activity studies. 4. Potent, orally active analgesics. Wrigglesworth R, et al. **J Med Chem** 1996 Dec 6;39(25):4942-51

The responses of rat trigeminal ganglion neurons to capsaicin and two nonpungent vanilloid receptor agonists, olvanil and glyceryl nonamide. Liu L, et al. **J Neurosci** 1997 Jun 1;17(11):4101-11

Pharmacological characterization of the vanilloid receptor in the rat isolated vas deferens. Wardle KA, et al. **J Pharm Pharmacol** 1996 Mar;48(3):285-91

Percutaneous absorption of vanilloids: in vivo and in vitro studies. Kasting GB, et al. **J Pharm Sci** 1997 Jan;86(1):142-6

Glyceryl nonivamide: a capsaicin derivative with cardiac calcitonin gene-related peptide releasing, K+ channel opening and vasorelaxant properties. Lo YC, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):253-60

Euphorbium: modern research on its active principle, resiniferatoxin, revives an ancient medicine. Appendino G, et al. **Life Sci** 1997;60(10):681-96 (87 ref.)

Capsazepine, a vanilloid receptor antagonist, inhibits nicotinic acetylcholine receptors in rat trigeminal ganglia. Liu L, et al. **Neurosci Lett** 1997 May 30;228(1):29-32

Glyceryl nonivamide, a nonpungent analogue of capsaicin, enhances substance P release and renal function in rats. Lo YC, et al. **Pharmacology** 1997 Mar;54(3):127-34

Modulation of cough and airway sensory fibres. Fox AJ. **Pulm Pharmacol** 1996 Oct-Dec;9(5-6):335-42

Stability, blood partition, and protein binding of DA-5018, a new nonnarcotic analgesic. Shim HJ, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan;91(1):97-108

ANALYSIS

Evaluation of the quality of Nigerian chillies for pharmaceutical formulations. Gbolade AA, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):545-8

ANTAGONISTS & INHIBITORS

Complete recovery by nerve growth factor of neuropeptide content and function in capsaicin-impaired sensory neurons. Donnerer J, et al. **Brain Res** 1996 Nov 25; 741(1-2):103-8

Inhibitors of G-proteins and protein kinases reduce the sensitization to mechanical stimulation and the desensitization to heat of spinothalamic tract neurons induced by intradermal injection of capsaicin in the primate. Sluka KA, et al. **Exp Brain Res** 1997 Jun; 115(1):15-24

The selective capsaicin antagonist capsazepine abolishes the antinociceptive action of eugenol and guaiacol. Ohkubo T, et al. **J Dent Res** 1997 Apr;76(4):848-51

Blockade of capsaicin-induced reduction of GABA-immunoreactivity by spantide in cat spinal superficial dorsal horn. Wei F, et al. **Neuroscience** 1996 Mar;71(1):277-83

DIAGNOSTIC USE

Capsaicin cough receptor sensitivity test in children. Chang AB, et al. **Eur Respir J** 1996 Nov;9(11):2220-3

Characterisation of capsaicin-induced mechanical hyperalgesia as a marker for altered nociceptive processing in patients with rheumatoid arthritis. Morris VH, et al. **Pain** 1997 Jun;71(2):179-86

METABOLISM

Effect of truncal vagotomy and capsaicin on mast cells and IgA-positive plasma cells in rat jejunal mucosa. Gottwald T, et al. **Neurogastroenterol Motil** 1997 Mar;9(1):25-32

PHARMACOLOGY

Sub-population of capsaicin sensitive primary afferent neurons in thoracic, lumbar and sacral dorsal root ganglion in young rats revealed by stimulated cobalt uptake. Kulik A, et al. **Acta Biol Hung** 1996;47(1-4):251-9

Neuropeptide- and capsaicin-induced histamine release in skin monitored with the microdialysis technique. Huttunen M, et al. **Acta Derm Venereol** 1996 May;76(3):205-9

Effect of endolymphatic hydrops on capsaicin-evoked increase in cochlear blood flow. Vass Z, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):754-8

Effects of hCGRP 8-37 and the NK1-receptor antagonist SR 140.333 on capsaicin-evoked vasodilation in the pig nasal mucosa in vivo. Rinder J, et al. **Acta Physiol Scand** 1996 Feb;156(2):115-22

Enhanced fluid intake by rats after capsaicin treatment. Curtis KS, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R704-9

Pancreatic secretion stimulated by CCK is not mediated by capsaicin-sensitive vagal afferent pathway in awake rats. Guan D, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G881-6

Stimulation of intestinal apolipoprotein A-IV by lipid is independent of capsaicin-sensitive afferent signals. Kalogeris TJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R981-90

Capsaicin-induced release of VIP-like immunoreactivity: modulation by enzyme inhibitors. Leme AS, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L506-11

Capsaicin attenuates feeding suppression but not reinforcement by intestinal nutrients. Lucas F, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1059-64

Involvement of capsaicin-sensitive nerves in regulating the hormone and glucose metabolic response to endotoxin. Morgan AE, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E328-35

Endogenous CCK disrupts the MMC pattern via capsaicin-sensitive vagal afferent fibers in the rat. Rodríguez-Membrilla A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G100-5

Somatosensory influences on renal sympathetic nerve activity in anesthetized Wistar and hypertensive rats. Zhang T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R982-90

Tachykinin-independent effects of capsaicin on smooth muscle in human isolated bronchi. Ellis JL, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):751-5

Capsaicin's effect on rat nasal mucosa substance P release: experimental basis for vasomotor rhinitis treatment. Kuhn FA, et al. **Am J Rhinol** 1997 Jul-Aug;11(4):313-6

Capsaicin-evoked mechanical allodynia and hyperalgesia cross nerve territories. Evidence for a central mechanism. Sang CN, et al. **Anesthesiology** 1996 Sep;85(3):491-6

Capsaicin-evoked mechanical allodynia and hyperalgesia cross-nerve territories [letter] Vandam LD. **Anesthesiology** 1997 Aug;87(2):452

Effects of orally administered capsaicin, the principal component of capsicum fruits, on the in vitro metabolism of the tobacco-specific nitrosamine NNK in hamster lung and liver microsomes. Zhang Z, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1093-8

A 33.5-kDa heat- and protease-resistant NADH oxidase inhibited by capsaicin from sera of cancer patients. Chueh PJ, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):38-47

NADH oxidase activity from sera altered by capsaicin is widely distributed among cancer patients. Morré DJ, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):224-30

Isolation and identification of a protein with capsaicin-inhibited NADH oxidase activity from culture media conditioned by growth of HeLa cells. Wilkinson F, et al. **Arch Biochem Biophys** 1996 Dec 15;336(2):275-82

Effect of capsaicin treatment or inferior alveolar nerve resection on dentine formation and calcitonin gene-related peptide- and substance P-immunoreactive nerve fibres in rat molar pulp. Jacobsen EB, et al. **Arch Oral Biol** 1996 Dec;41(12):1121-31

The effects of repeated dermal application of capsaicin to the human skin on pain and vasodilatation induced by intradermal injection of acid and hypertonic solutions. Del Bianco E, et al. **Br J Clin Pharmacol** 1996 Jan;41(1):1-6

Substance P and capsaicin-induced mechanical hyperalgesia in the rat knee joint; the involvement of bradykinin B1 and B2 receptors. Davis AJ, et al. **Br J Pharmacol** 1996 Aug;118(8):2206-12

Effect of capsaicin and analogues on potassium and calcium currents and vanilloid receptors in Xenopus embryo spinal neurones. Kuenzi FM, et al. **Br J Pharmacol** 1996 Sep; 119(1):81–90

Release of beta–endorphin immunoreactivity into ventriculo–cisternal perfusate by lumbar intrathecal capsaicin in the rat. Bach FW, et al. **Brain Res** 1995 Dec 1;701(1–2):192–200

Capsaicin–resistant vagal afferent fibers in the rat gastrointestinal tract: anatomical identification and functional integrity. Berthoud HR, et al. **Brain Res** 1997 Jan 23;746(1–2):195–206

Corticotropin–releasing factor and systemic capsaicin–sensitive afferents are involved in abdominal surgery–induced Fos expression in the paraventricular nucleus of the hypothalamus. Bonaz B, et al. **Brain Res** 1997 Feb 14;748(1–2):12–20

Central projections and entries of capsaicin–sensitive muscle afferents. Della Torre G, et al. **Brain Res** 1996 Mar 25; 713(1–2):223–31

Capsaicin–sensitive afferents mediate chronic cold, but not mechanical, allodynia–like behavior in spinally injured rats. Hao JX, et al. **Brain Res** 1996 May 25;722(1–2):177–80

Excitatory effects of algesic compounds on neuronal processes in murine dorsal root ganglion cell culture. Noda K, et al. **Brain Res** 1997 Mar 21;751(2):348–51

The differential contribution of capsaicin–sensitive afferents to behavioral and cardiovascular measures of brief and persistent nociception and to Fos expression in the formalin test. Peterson MA, et al. **Brain Res** 1997 Apr 25;755(1):9–16

Vanilloid (capsaicin) receptors in the rat: distribution in the brain, regional differences in the spinal cord, axonal transport to the periphery, and depletion by systemic vanilloid treatment. Szallasi A, et al. **Brain Res** 1995 Dec 12;703(1–2):175–83

Effect of lesion of the hypothalamic mamillary nuclei on skin blood vessel permeability in normal and capsaicin–pretreated rats. Tolochko ZS, et al. **Brain Res** 1997 Mar 28;752(1–2):324–6

Low but not high rate noxious radiant skin heating evokes a capsaicin–sensitive increase in spinal cord dorsal horn release of substance P. Zachariou V, et al. **Brain Res** 1997 Mar 28;752(1–2):143–50

Systemic capsaicin pretreatment fails to block the decrease in food–motivated behavior induced by lipopolysaccharide and interleukin–1beta. Bret–Dibat JL, et al. **Brain Res Bull** 1997;42(6):443–9

Neonatal capsaicin treatment alters the metabolic activity of subcortical somatosensory structures of developing rats in response to whisker stimulation. Wu CC. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):295–8

Calcitonin gene–related peptide is released from capsaicin–sensitive nerve fibres and induces vasodilatation of human cerebral arteries concomitant with activation of adenylyl cyclase [see comments] Jansen–Olesen I, et al. **Cephalalgia** 1996 Aug;16(5):310–6. Comment in: Cephalalgia 1996 Aug;16(5):287.

Capsaicin modifies responses of rat chorda tympani nerve fibers to NaCl. Osada K, et al. **Chem Senses** 1997 Jun; 22(3):249–55

Effect of capsaicin inhalation on methacholine responsiveness in normal subjects. Fujimura M, et al. **Clin Auton Res** 1996 Feb;6(1):45–8

Role of capsaicin–sensitive sensory nerves in gastroprotection against acid–independent and acid–dependent ulcerogens. Brzozowski T, et al. **Digestion** 1996 Nov–Dec;57(6):424–32

Involvement of capsaicin–sensitive sensory nerves in gastric adaptive relaxation in isolated guinea–pig stomachs. Uno H, et al. **Digestion** 1997;58(3):232–9

A comparison of morphological effects on the rabbit nasal and sinus mucosa after surgical denervation and topical capsaicin application. Norlander T, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):205–13

Capsaicin inhibits plasma membrane NADH oxidase and growth of human and mouse melanoma lines. Morré DJ, et al. **Eur J Cancer** 1996 Oct;32A(11):1995–2003

Effect of capsaicin and resiniferatoxin on gastrointestinal blood flow in rats. Abdel Salam OM, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):127–36

Capsaicin preferentially affects small–diameter acutely isolated rat dorsal root ganglion cell bodies. Del Mar LP, et al. **Exp Brain Res** 1996 Sep;111(1):30–4

Capsaicin as an inhibitor of the growth of the gastric pathogen Helicobacter pylori. Jones NL, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):223–7

Involvement of a CCK–dependent capsaicin–sensitive afferent pathway in the inhibitory effect of pinaverium bromide on the colonic motor response to eating in rats. Fioramonti J, et al. **Fundam Clin Pharmacol** 1997; 11(3):231–6

Tachykinin antagonist FK224 inhibits neurokinin A–, substance P– and capsaicin–induced human bronchial contraction. Honda I, et al. **Fundam Clin Pharmacol** 1997; 11(3):260–6

Rectal distention–induced colonic net water secretion in rats involves tachykinins, capsaicin sensory, and vagus nerves. Eutamene H, et al. **Gastroenterology** 1997 May; 112(5):1595–602

Influence of capsaicin–sensitive afferent neurons and nitric oxide (NO) on cerulein–induced pancreatitis in rats. Dembinski A, et al. **Int J Pancreatol** 1996 Jun;19(3):179–89

Convulsions and death induced in rats by Tween 80 are prevented by capsaicin. Dib B, et al. **Int J Tissue React** 1996;18(1):27–31

H2O2 increases sheep tracheal blood flow, permeability, and vascular response to luminal capsaicin. Wells UM, et al. **J Appl Physiol** 1997 Feb;82(2):621–31

Capsaicin–sensitive A delta fibers in cat tooth pulp. Ikeda H, et al. **J Dent Res** 1997 Jul;76(7):1341–9

Capsaicin inhibits detrusor contractility but not the micturition reflex in capsaicin–desensitized rats. Kuo HC. **J Formos Med Assoc** 1997 Sep;96(9):691–6

Capsaicin (8–methyl–N–vanillyl–6–nonenamide) is a potent inhibitor of nuclear transcription factor–kappa B activation by diverse agents. Singh S, et al. **J Immunol** 1996 Nov 15;157(10):4412–20

Responses of rat spinal dorsal horn neurons to intracutaneous microinjection of histamine, capsaicin, and other irritants. Carstens E. **J Neurophysiol** 1997 May;77(5):2499–514

Lactoseries carbohydrate antigen, Gal beta 1–4GlcNAc–R, is expressed by a subpopulation of capsaicin–sensitive rat sensory neurons. Del Mar LP, et al. **J Neurophysiol** 1996 Oct;76(4):2192–9

Neuroplastic effects of neonatal capsaicin on neurons in adult rat trigeminal nucleus principalis and subnucleus oralis. Kwan CL, et al. **J Neurophysiol** 1996 Jan;75(1):298–310

Similarities and differences in the currents activated by capsaicin, piperine, and zingerone in rat trigeminal ganglion cells. Liu L, et al. **J Neurophysiol** 1996 Sep;76(3):1858–69

Capsaicin–induced rapid receptive field reorganization in cuneate neurons. Pettit MJ, et al. **J Neurophysiol** 1996 Mar; 75(3):1117–25

5HT4 receptors couple positively to tetrodotoxin–insensitive sodium channels in a subpopulation of capsaicin–sensitive rat sensory neurons. Cardenas CG, et al. **J Neurosci** 1997 Oct 1;17(19):7181–9

The role of calcium in the desensitization of capsaicin responses in rat dorsal root ganglion neurons. Koplas PA, et al. **J Neurosci** 1997 May 15;17(10):3525–37

The responses of rat trigeminal ganglion neurons to capsaicin and two nonpungent vanilloid receptor agonists, olvanil and glyceryl nonamide. Liu L, et al. **J Neurosci** 1997 Jun 1;17(11):4101–11

Collateral sprouting of uninjured primary afferent A–fibers into the superficial dorsal horn of the adult rat spinal cord after topical capsaicin treatment to the sciatic nerve. Mannion RJ, et al. **J Neurosci** 1996 Aug 15;16(16):5189–95

Tumor necrosis factor enhances the capsaicin sensitivity of rat sensory neurons. Nicol GD, et al. **J Neurosci** 1997 Feb 1;17(3):975–82

Capsaicin activates a nonselective cation channel in cultured neonatal rat dorsal root ganglion neurons. Oh U, et al. **J Neurosci** 1996 Mar 1;16(5):1659–67

Pharmacological characterization of the vanilloid receptor in the rat isolated vas deferens. Wardle KA, et al. **J Pharm Pharmacol** 1996 Mar;48(3):285–91

Sympathetic neurotransmission in isolated rat atria after sensory–motor denervation by neonatal treatment with capsaicin. Rubino A, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):671–5

Fractional Ca2+ currents through capsaicin– and proton–activated ion channels in rat dorsal root ganglion neurones. Zeilhofer HU, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):67–78

The indomethacin–induced gastric mucosal damage in rats. Effect of gastric acid, acid inhibition, capsaicin–type agents and prostacyclin. Abdel Salam OM, et al. **J Physiol Paris** 1997 Feb;91(1):7–19

Role of nitric oxide in the pancreatic vascular and metabolic responses associated with activation of capsaicin–sensitive neurons. Pawlik WW, et al. **J Physiol Pharmacol** 1996 Dec; 47(4):601–9

Laryngeal constriction produced by capsaicin in the cat. Szereda–Przestaszewska M, et al. **J Physiol Pharmacol** 1996 Jun;47(2):351–60

A single capsaicin injection partially depletes neuropeptides but does not ameliorate inflammation severity in established feline antigen induced arthritis. Marshall KW, et al. **J Rheumatol** 1997 Sep;24(9):1765–8

Desensitization of bladder sensory fibers by intravesical capsaicin has long lasting clinical and urodynamic effects in patients with hyperactive or hypersensitive bladder dysfunction. Cruz F, et al. **J Urol** 1997 Feb;157(2):585–9

Cardiopulmonary responses to capsaicin instillation to the laryngeal lumen and their reflex mechanisms in rats. Hishida N, et al. **J Vet Med Sci** 1996 Aug;58(8):761–7

Capsaicin–induced calcitonin gene–related peptide release from isolated rat stomach measured with a new chemiluminescent enzyme immunoassay. Inaba N, et al. **Jpn J Pharmacol** 1996 Nov;72(3):223–9

Role of capsaicin–sensitive sensory neurons and nitric oxide in the protective effect of lansoprazole, a proton pump inhibitor, on the gastric mucosa in rats. Murakami I, et al. **Jpn J Pharmacol** 1996 Oct;72(2):137–47

Presence of an acidic glycoprotein in the serum of arthritic rats: modulation by capsaicin and curcumin. Joe B, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):125–34

The inhibitory modulation of guinea–pig intestinal peristalsis caused by capsaicin involves calcitonin gene–related peptide and nitric oxide. Bartho L, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):102–9

The role of substance P in myocardial dysfunction during ischemia and reperfusion. Chiao H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):400–7

Influence of several peptidase inhibitors on the pro–inflammatory effects of substance P, capsaicin and collagenase. Damas J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):662–9

Stimulation of bladder activity by volume, L–dopa and capsaicin in normal conscious rats—effects of spinal alpha 1–adrenoceptor blockade. Ishizuka O, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):787–93

Involvement of nitric oxide in spinally mediated capsaicin– and glutamate–induced behavioural responses in the mouse. Sakurada T, et al. **Neurochem Int** 1996 Sep;29(3):271–8

Neonatal capsaicin treatment abolishes formalin–induced spinal PGE2 release. Hua XY, et al. **Neuroreport** 1997 Jul 7;8(9–10):2325–9

Trigeminovascular stimulation in conscious rats. Kemper RH, et al. **Neuroreport** 1997 Mar 24;8(5):1123–6

Effect of capsaicin on substance P and nerve growth factor in adjuvant arthritic rats. Garrett NE, et al. **Neurosci Lett** 1997 Jul 11;230(1):5–8

Influence of inflammation or disconnection from peripheral target tissue on the capsaicin sensitivity of rat dorsal root ganglion sensory neurones. Hu–Tsai M, et al. **Neurosci Lett** 1996 Jan 19;203(2):119–22

Neonatal capsaicin attenuates mechanical nociception in the rat. Khasar SG, et al. **Neurosci Lett** 1996 Feb 23; 205(2):141–3

Coexpression of heat–evoked and capsaicin–evoked inward currents in acutely dissociated rat dorsal root ganglion neurons. Kirschstein T, et al. **Neurosci Lett** 1997 Aug 1; 231(1):33–6

Low pH facilitates capsaicin responses in isolated sensory neurons of the rat. Kress M, et al. **Neurosci Lett** 1996 Jun 14;211(1):5–8

Plasma extravasation and neuropeptide release in human skin as measured by intradermal microdialysis. Schmelz M, et al. **Neurosci Lett** 1997 Jul 18;230(2):117–20

Activation of chemosensitive neurons in the ventrolateral medulla by capsaicin in cats. Seller H, et al. **Neurosci Lett** 1997 May 2;226(3):195–8

Pituitary adenylate cyclase activating polypeptide innervation of the rat female reproductive tract and the associated paracervical ganglia: effect of capsaicin. Fahrenkrug J, et al. **Neuroscience** 1996 Aug;73(4):1049–60

Systemic capsaicin in the adult rat differentially affects gene expression for neuropeptides and neurotrophin receptors in primary sensory neurons. Kashiba H, et al. **Neuroscience** 1997 Jan;76(1):299–312

Localization of bradykinin–like immunoreactivity in the rat spinal cord: effects of capsaicin, melittin, dorsal rhizotomy and peripheral axotomy. Lopes P, et al. **Neuroscience** 1997 May;78(2):481–97

Multiple capsaicin–evoked currents in isolated rat sensory neurons. Petersen M, et al. **Neuroscience** 1996 Nov; 75(2):495–505

Responses of adult human dorsal root ganglion neurons in culture to capsaicin and low pH. Baumann TK, et al. **Pain** 1996 Apr;65(1):31–8

Capsaicin and carbon dioxide act by distinct mechanisms on sensory nerve terminals in the cat cornea. Chen X, et al. **Pain** 1997 Mar;70(1):23–9

Desensitization follows excitation of bladder primary afferents by intravesical capsaicin, as shown by c–fos activation in the rat spinal cord. Cruz F, et al. **Pain** 1996 Mar;64(3):553–7

Independent effects of ischaemia and noradrenaline on thermal hyperalgesia in capsaicin–treated skin. Drummond PD. **Pain** 1996 Sep;67(1):129–33

Enhanced withdrawal responses to heat and mechanical stimuli following intraplantar injection of capsaicin in rats. Gilchrist HD, et al. **Pain** 1996 Sep;67(1):179–88

Inhibition of substance P release from spinal cord tissue after pretreatment with capsaicin does not mediate the antinociceptive effect of capsaicin in adult mice. Goettl VM, et al. **Pain** 1997 Jul;71(3):271–8

Rapid recovery from capsaicin desensitization during recurrent stimulation. Green BG. **Pain** 1996 Dec; 68(2–3):245–53

Peripheral alpha–adrenoreceptors are involved in the development of capsaicin induced ongoing and stimulus evoked pain in humans. Kinnman E, et al. **Pain** 1997 Jan; 69(1–2):79–85

A model of transient hyperalgesia in the behaving monkey induced by topical application of capsaicin. Kupers RC, et al. **Pain** 1997 Aug;72(1–2):269–75

Capsaicin activated currents in rat dorsal root ganglion cells. Liu L, et al. **Pain** 1996 Jan;64(1):191–5

Inhibition of calcineurin inhibits the desensitization of capsaicin–evoked currents in cultured dorsal root ganglion neurones from adult rats. Docherty RJ, et al. **Pflugers Arch** 1996 Apr;431(6):828–37

Studies on the effect of intragastric capsaicin on gastric ulcer and on the prostacyclin–induced cytoprotection in rats. Abdel Salam OM, et al. **Pharmacol Res** 1995 Oct; 32(4):209–15

Capsaicin–, resiniferatoxin–, and lactic acid–evoked vascular effects in the pig nasal mucosa in vivo with reference to characterization of the vanilloid receptor. Rinder J, et al. **Pharmacol Toxicol** 1996 May;78(5):327–35

Adaptation to capsaicin within and across days. McBurney DH, et al. **Physiol Behav** 1997 Feb;61(2):181-90

Capsaicin or feeding with red peppers during gestation changes the thermonociceptive response of rat offspring. Pellicer F, et al. **Physiol Behav** 1996 Aug;60(2):435-8

Desensitization to oral zingerone irritation: effects of stimulus parameters. Prescott J, et al. **Physiol Behav** 1996 Dec; 60(6):1473-80

Capsaicin-sensitive nerves and endurance exercise in the rat. Trudeau F, et al. **Physiol Behav** 1996 Feb;59(2):355-9

Comparative study of the effects of capsaicin on the contractility of normal and spinal cord injured human bladders. Kuo HC.
Proc Natl Sci Counc Repub China B 1997 Jan;21(1):13-9

Capsaicin-sensitive sensory nerve terminals with local and systemic efferent functions: facts and scopes of an unorthodox neuroregulatory mechanism. Szolcsányi J.
Prog Brain Res 1996;113:343-59 (132 ref.)

Mechanisms and modulation of capsaicin activity on airway afferent nerves. Fox AJ. **Pulm Pharmacol** 1995 Aug-Oct; 8(4-5):207-15 (64 ref.)

Modulation of cough and airway sensory fibres. Fox AJ. **Pulm Pharmacol** 1996 Oct-Dec;9(5-6):335-42

The role of capsaicin-sensitive C-fibre afferent nerves in the cough reflex. Karlsson JA. **Pulm Pharmacol** 1996 Oct-Dec; 9(5-6):315-21

Inhalation cough challenge in the investigation of the cough reflex and antitussives. Morice AH. **Pulm Pharmacol** 1996 Oct-Dec;9(5-6):281-4 (25 ref.)

Capsaicin-evoked release of pituitary adenylate cyclase activating peptide (PACAP) and calcitonin gene-related peptide (CGRP) from rat spinal cord in vivo. Zhang Y, et al. **Regul Pept** 1997 Mar 26;69(2):83-7

Sensory receptor activation by mediators of defense reflexes in guinea-pig lungs. Bergren DR. **Respir Physiol** 1997 Jun; 108(3):195-204

Morphological determinants of peripheral lung mechanical changes induced by capsaicin. Dolhnikoff M, et al.
Respir Physiol 1997 Apr;108(1):63-72

Tachykinins do not cause plasma leakage in the rabbit trachea. Matheson MJ, et al. **Respir Physiol** 1997 May; 108(2):165-70

Role of vagal lung C-fibres in the cardiorespiratory effects of capsaicin in monkeys. Ravi K, et al. **Respir Physiol** 1996 Nov;106(2):137-51

Capsaicin, a structural analog of tyrosine, inhibits the aminoacylation of tRNA(Tyr). Cochereau C, et al.
Toxicol Appl Pharmacol 1996 Nov;141(1):133-7

Effects of capsaicin on detrusor contractility of rats: an in vivo and isolated whole bladder study. Kuo HC.
Urol Int 1996;57(1):51-7

[Effects of some physical and chemical factors on CGRP release from mesenteric arterial bed] Wu ZX, et al.
Sheng Li Hsueh Pao 1995 Dec;47(6):573-9 (Eng. Abstr.) **(Chi)**

[Capsaicin-induced corneal epithelial changes in rats] Kawakami J, et al. **Nippon Ganka Gakkai Zasshi** 1996 Sep; 100(9):653-9 (Eng. Abstr.) **(Jpn)**

[The effect of electrostimulation of the hypothalamic mamillary nuclei on the vascular permeability of the skin in intact and capsaicin-pretreated rats] Tolochko ZS, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):1-5 (Eng. Abstr.) **(Rus)**

[A change in the permeability of eye microvasculature during damage to the hypothalamic nuclei in intact and rats and rats pretreated with capsaicin] Tolochko ZS, et al.
Patol Fiziol Eksp Ter 1997 Jul-Sep;(3):18-20 (Eng. Abstr.) **(Rus)**

[Reaction of cells of subcutaneous connective tissue to the activation and blockade of the peptidergic system] Vorob'eva NF, et al. **Patol Fiziol Eksp Ter** 1997 Jan-Mar; (1):21-3 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Treatment of lichen simplex chronicus with topical capsaicin cream [letter; comment] [see comments] Kantor GR, et al. **Acta Derm Venereol** 1996 Mar;76(2):161. Comment on: Acta Derm Venereol 1992 Nov;72(6):463. Comment in: Acta Derm Venereol 1997 Mar;77(2):158-9.

The use of capsaicin in herpes zoster ophthalmicus neuralgia. Frucht-Pery J, et al. **Acta Ophthalmol Scand** 1997 Jun; 75(3):311-3

Local treatment of nasal polyposis with capsaicin: preliminary findings. Filiaci F, et al.
Allergol Immunopathol (Madr) 1996 Jan-Feb;24(1):13-8

Comment: capsaicin for pain relief in Guillain-Barré syndrome [letter; comment] Jacknowitz AI.
Ann Pharmacother 1997 Apr;31(4):500. Comment on: Ann Pharmacother 1996 Feb;30(2):173-80.

Treatment of PUVA itch with capsaicin [letter] Kirby B, et al. **Br J Dermatol** 1997 Jul;137(1):152

Intranasal capsaicin is efficacious in non-allergic, non-infectious perennial rhinitis. A placebo-controlled study. Blom HM, et al. **Clin Exp Allergy** 1997 Jul; 27(7):796-801

Peppers and pain. The promise of capsaicin. Fusco BM, et al. **Drugs** 1997 Jun;53(6):909-14 (37 ref.)

Differential effect of codeine on coughs caused by mechanical stimulation of two different sites in the airway of guinea pigs. Takahama K, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):93-7

Effect of capsaicin and cimetidine on the healing of acetic acid induced gastric ulceration in the rat. Kang JY, et al. **Gut** 1996 Jun;38(6):832-6

Capsaicin--an effective topical treatment in pain. Markovits E, et al. **Int J Dermatol** 1997 Jun;36(6):401-4 (24 ref.)

Topical capsaicin selectively attenuates heat pain and A delta fiber-mediated laser-evoked potentials. Beydoun A, et al. **Pain** 1996 May-Jun;65(2-3):189-96

Antinociception induced by civamide, an orally active capsaicin analogue. Hua XY, et al. **Pain** 1997 Jul; 71(3):313-22

Vanilloid receptors: new insights enhance potential as a therapeutic target. Szallasi A, et al. **Pain** 1996 Dec; 68(2-3):195-208 (172 ref.)

TOXICITY

Calcitonin gene-related peptide in viscerosensitive response to colorectal distension in rats. Plourde V, et al.
Am J Physiol 1997 Jul;273(1 Pt 1):G191-6

The stimulation of capsaicin-sensitive neurones in a vanilloid receptor-mediated fashion by pungent terpenoids possessing an unsaturated 1,4-dialdehyde moiety. Szallasi A, et al. **Br J Pharmacol** 1996 Sep;119(2):283-90

Effects of capsaicin on chemically-induced two-stage mouse skin carcinogenesis. Park KK, et al. **Cancer Lett** 1997 Mar 19;114(1-2):183-4

Influence of the neurotoxin capsaicin on rat pancreatic islets in culture, and on the pancreatic islet blood flow of rats. Carlsson PO, et al. **Eur J Pharmacol** 1996 Sep 19; 312(1):75-81

Airway responses to capsaicin in guinea pigs: role of NK-1 and NK-2 neurokinin receptors. Vieira JE, et al.
Exp Lung Res 1997 Jan-Feb;23(1):85-99

Nitric oxide mediates capsaicin-induced increase in cochlear blood flow. Vass Z, et al. **Hear Res** 1996 Oct; 100(1-2):114-9

Acute oral toxicity of capsaicin in mice and rats. Saito A, et al. **J Toxicol Sci** 1996 Aug;21(3):195-200

Tyrosine prevents capsaicin-induced protein synthesis inhibition in cultured cells. Cochereau C, et al.
Toxicology 1997 Feb 28;117(2-3):133-9

CAPSICUM

Accumulation and clearance of capsanthin in blood plasma after the ingestion of paprika juice in men. Oshima S, et al. **J Nutr** 1997 Aug;127(8):1475-9

Effects of red-pepper diet on the energy metabolism in men. Yoshioka M, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec; 41(6):647-56

Dietary red pepper ingestion increases carbohydrate oxidation at rest and during exercise in runners. Lim K, et al. **Med Sci Sports Exerc** 1997 Mar;29(3):355-61

ADVERSE EFFECTS

Capsaicin and cajun claw syndrome [letter] Dooley DP, et al. **Am Fam Physician** 1996 Nov 1;54(6):1890

Oleoresin capsicum (Cap-Stun) toxicity from aerosol exposure. Watson WA, et al. **Ann Pharmacother** 1996 Jul-Aug;30(7-8):733-5

Sensitization to pepper (Capsicum annuum) in a latex-allergic patient. Gallo R, et al. **Contact Dermatitis** 1997 Jul; 37(1):36-7

CHEMISTRY

Primary structure and specificity of a serine proteinase inhibitor from paprika (Capsicum annuum) seeds. Antcheva N, et al. **Biochim Biophys Acta** 1996 Nov 14;1298(1):95-101

Isocratic non-aqueous reversed-phase high-performance liquid chromatographic separation of capsanthin and capsorubin in red peppers (Capsicum annuum L.), paprika and oleoresin. Weissenberg M, et al. **J Chromatogr A** 1997 Jan 3;757(1-2):89-95

Influence of sundrying on the chemical composition, aflatoxin content and fungal counts of two pepper varieties--Capsicum annum and Capsicum frutescens. Adegoke GO, et al. **Plant Foods Hum Nutr** 1996 Feb; 49(2):113-7

Chemical and elemental comparison of two formulations of oleoresin capsicum. Haas JS, et al. **Sci Justice** 1997 Jan-Mar;37(1):15-24

[Bioassay of rainbow trout (Oncorhynchus mykiss) pigmentation using ancho chili (Capsicum annuum) extracts] Carter JV, et al. **Arch Latinoam Nutr** 1994 Dec; 44(4):252-5 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Bell pepper fruit fatty acid hydroperoxide lyase is a cytochrome P450 (CYP74B). Matsui K, et al.
FEBS Lett 1996 Sep 23;394(1):21-4

Isolation and characterization of a gene encoding endo-beta-1,4-glucanase from pepper (Capsicum annuum L.). Harpster MH, et al. **Plant Mol Biol** 1997 Jan; 33(1):47-59

GENETICS

The coat protein is required for the elicitation of the Capsicum L2 gene-mediated resistance against the tobamoviruses. de la Cruz A, et al.
Mol Plant Microbe Interact 1997 Jan;10(1):107-13

Molecular cloning and expression of the hot pepper ERabp1 gene encoding auxin-binding protein. Choi SY.
Plant Mol Biol 1996 Dec;32(5):995-7

Isolation and characterization of a gene encoding endo-beta-1,4-glucanase from pepper (Capsicum annuum L.). Harpster MH, et al. **Plant Mol Biol** 1997 Jan; 33(1):47-59

Fruit-specific expression of a defensin-type gene family in bell pepper. Upregulation during ripening and upon wounding. Meyer B, et al. **Plant Physiol** 1996 Oct; 112(2):615-22

MICROBIOLOGY

Two separate regions in the genome of the tobacco etch virus contain determinants of the wilting response of Tabasco pepper. Chu M, et al.
Mol Plant Microbe Interact 1997 May;10(4):472-80

Influence of sundrying on the chemical composition, aflatoxin content and fungal counts of two pepper varieties--Capsicum annum and Capsicum frutescens. Adegoke GO, et al. **Plant Foods Hum Nutr** 1996 Feb; 49(2):113-7

PHYSIOLOGY

Characterization and gene expression of an annexin during fruit development in Capsicum annuum. Proust J, et al.
FEBS Lett 1996 Apr 1;383(3):208-12

VIROLOGY

The coat protein is required for the elicitation of the Capsicum L2 gene-mediated resistance against the tobamoviruses. de la Cruz A, et al.
Mol Plant Microbe Interact 1997 Jan;10(1):107-13

CAPSID

ADMINISTRATION & DOSAGE

A single dose immunization with rabbit haemorrhagic disease virus major capsid protein produced in Saccharomyces cerevisiae induces protection. Boga JA, et al.
J Gen Virol 1997 Sep;78 (Pt 9):2315-8

ANALYSIS

Evidence and prevention of HIV-1 nucleocapsid protein adsorption onto fluorescence quartz cells. Vuilleumier C, et al. **Anal Biochem** 1997 Jan 1;244(1):183-5

Comparative amino acid sequence analysis of the outer capsid protein VP4 from four lapine rotavirus strains reveals identity with genotype P[14] human rotaviruses. Ciarlet M, et al. **Arch Virol** 1997;142(5):1059-69

Membrane location of spin-labeled M13 major coat protein mutants determined by paramagnetic relaxation agents. Stopar D, et al. **Biochemistry** 1997 Jul 8;36(27):8261-8

Immunohistochemical detection of the Epstein-Barr virus-encoded latent membrane protein 2A in Hodgkin's disease and infectious mononucleosis. Niedobitek G, et al.
Blood 1997 Aug 15;90(4):1664-72

The structure of coxsackievirus B3. Muckelbauer JK, et al.
Curr Top Microbiol Immunol 1997;223:191-208 (55 ref.)

Detection of potato mop-top virus capsid readthrough protein in virus particles. Cowan GH, et al.
J Gen Virol 1997 Jul;78 (Pt 7):1779-83

Identification of canine calicivirus capsid protein and its immunoreactivity in western blotting. San Gabriel MC, et al. **J Vet Med Sci** 1997 Feb;59(2):97-101

Detection of human papillomavirus L1 protein in condylomata acuminata from various anatomical sites. Wools K, et al. **Sex Transm Dis** 1994 Mar-Apr;21(2):103-6

Sequence close to the N-terminus of L2 protein is displayed on the surface of bovine papillomavirus type 1 virions. Liu WJ, et al. **Virology** 1997 Jan 20;227(2):474-83

BIOSYNTHESIS

The M(r) 43K major capsid protein of rice ragged stunt oryzavirus is a post-translationally processed product of a M(r) 67,348 polypeptide encoded by genome segment 8. Upadhyaya NM, et al. **Arch Virol** 1996;141(9):1689-701

Strong sequence conservation of African swine fever virus p72 protein provides the molecular basis for its antigenic stability. Yu M, et al. **Arch Virol** 1996;141(9):1795-802

Self-assembly of in vitro-translated human papillomavirus type 16 L1 capsid protein into virus-like particles and antigenic reactivity of the protein. Iyengar S, et al.
Clin Diagn Lab Immunol 1996 Nov;3(6):733-9

Formation of bacteriophage MS2 infectious units in a cell-free translation system. Katanaev VL, et al.
FEBS Lett 1996 Nov 18;397(2-3):143-8

Production of human papillomavirus type 45 virus-like particles in insect cells using a recombinant baculovirus. Touzé A, et al. **FEMS Microbiol Lett** 1996 Jul 15; 141(1):111-6

Identification of a 24 kDa protein expressed by chicken anaemia virus. Douglas AJ, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1557-62

Chimeric coxsackie B3 virus genomes that express hybrid coxsackievirus-poliovirus 2B proteins: functional dissection of structural domains involved in RNA replication. van Kuppeveld FJ, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1833-40

Studies of coat protein-mediated resistance to tobacco mosaic

tobamovirus: correlation between assembly of mutant coat proteins and resistance. Bendahmane M, et al. **J Virol** 1997 Oct;71(10):7942–50

Biochemical characterization of a smaller form of recombinant Norwalk virus capsids assembled in insect cells. White LJ, et al. **J Virol** 1997 Oct;71(10):8066–72

A suboptimal 5' splice site is a cis-acting determinant of nuclear export of polyomavirus late mRNAs. Huang Y, et al. **Mol Cell Biol** 1996 Nov;16(11):6046–54

The nucleotide sequence of the coat protein gene and 3' untranslated region of azuki bean mosaic potyvirus, a member of the bean common mosaic virus subgroup. Collmer CW, et al. **Mol Plant Microbe Interact** 1996 Nov; 9(8):758–61

Expression patterns of vascular-specific promoters RolC and Sh in transgenic potatoes and their use in engineering PLRV-resistant plants. Graham MW, et al. **Plant Mol Biol** 1997 Mar;33(4):729–35

Apoptin induces apoptosis in human transformed and malignant cells but not in normal cells. Danen-Van Oorschot AA, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5843–7

The in vitro biosynthesis of an authentic protein. Zinder ND. **Trends Biochem Sci** 1997 Aug;22(8):318–20 (15 ref.)

The VP4 and VP7 of bovine rotavirus VMRI are antigenically and genetically closely related to P-type 5, G-type 6 strains. Mummidi S, et al. **Vet Microbiol** 1996 Aug;51(3–4):241–55

Carboxyl terminus of bovine papillomavirus type-1 L1 protein is not required for capsid formation. Paintsil J, et al. **Virology** 1996 Sep 1;223(1):238–44

BLOOD

Dot immunoperoxidase assay for detection of parvovirus B19 antigens in serum samples. Gentilomi G, et al. **J Clin Microbiol** 1997 Jun;35(6):1575–8

[The use of syntheiic peptides for detection of antibodies against foot-and-mouth disease virus in the blood from convalescent animals] Petrov VN, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul–Sep;(3):27–31 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Alfalfa mosaic virus strains T6 and 425 differ in their capsid protein. Subr Z, et al. **Acta Virol** 1996 Jun;40(3):147–9

Mutational analysis of two zinc finger motifs in HIV type 1 nucleocapsid proteins: effects on proteolytic processing of Gag precursors and particle formation. Mizuno A, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):793–800

Inhibition of multiple phases of human immunodeficiency virus type 1 replication by a dithiane compound that attacks the conserved zinc fingers of retroviral nucleocapsid proteins. Rice WG, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):419–26

The human immunodeficiency virus type 1 (HIV-1) nucleocapsid protein zinc ejection activity of disulfide benzamides and benzisothiazolones: correlation with anti-HIV and virucidal activities. Tummino PJ, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):394–400

Conformational preferences of a peptide corresponding to the major antigenic determinant of foot-and-mouth disease virus: implications for peptide-vaccine approaches. de Prat-Gay G. **Arch Biochem Biophys** 1997 May 15; 341(2):360–9

Human calicivirus genogroup II capsid sequence diversity revealed by analyses of the prototype Snow Mountain agent. Hardy ME, et al. **Arch Virol** 1997;142(7):1469–79

G3P2 rotaviruses causing diarrhoeal disease in neonates differ in VP4, VP7 and NSP4 sequence from G3P2 strains causing asymptomatic neonatal infection. Kirkwood CD, et al. **Arch Virol** 1996;141(9):1661–76

Hydropathic characteristics of adenovirus hexons. Li QG, et al. **Arch Virol** 1997;142(7):1307–22

Strong sequence conservation of African swine fever virus p72 protein provides the molecular basis for its antigenic stability. Yu M, et al. **Arch Virol** 1996;141(9):1795–802

Sequence comparisons of the variable VP2 region of eight infectious bursal disease virus isolates. Dormitorio TV, et al. **Avian Dis** 1997 Jan–Mar;41(1):36–44

Development of a novel drug-delivery system using bacteriophage MS2 capsids. Wu M, et al. **Biochem Soc Trans** 1996 Aug;24(3):413S

The folded conformation of phage P22 coat protein is affected by amino acid substitutions that lead to a cold-sensitive phenotype. Fong DG, et al. **Biochemistry** 1997 Apr 1;36(13):3971–80

Backbone dynamics of the major coat protein of bacteriophage M13 in detergent micelles by 15N nuclear magnetic resonance relaxation measurements using the model-free approach and reduced spectral density mapping. Papavoine CH, et al. **Biochemistry** 1997 Apr 1; 36(13):4015–26

Local dynamics of the M13 major coat protein in different membrane-mimicking systems. Stopar D, et al. **Biochemistry** 1996 Dec 3;35(48):15467–73

In situ aggregational state of M13 bacteriophage major coat protein in sodium cholate and lipid bilayers. Stopar D, et al. **Biochemistry** 1997 Oct 7;36(40):12268–75

Conventional and saturation-transfer EPR of spin-labeled mutant bacteriophage M13 coat protein in phospholipid bilayers. Wolkers WF, et al. **Biochim Biophys Acta** 1997 Jul 5;1327(1):5–16

Construction, exploitation and evolution of a new peptide library displayed at high density by fusion to the major coat protein of filamentous phage. Iannolo G, et al. **Biol Chem** 1997 Jun;378(6):517–21

Interaction with phospholipid mono- and bilayers of HAV-VP3 (102–121) sequence by using spectroscopic techniques. Garcia M, et al. **Biomed Chromatogr** 1997 Mar–Apr;11(2):121–3

Molecular modeling of the RNA binding N-terminal part of cowpea chlorotic mottle virus coat protein in solution with phosphate ions. van der Spoel D, et al. **Biophys J** 1996 Dec;71(6):2920–32

Structural comparison between retro-inverso and parent peptides: molecular basis for the biological activity of a retro-inverso analogue of the immunodominant fragment of VP1 coat protein from foot-and-mouth disease virus. Carver JA, et al. **Biopolymers** 1997 Apr 15;41(5):569–90

Potential of chimaeric plant virus particles as novel, stable vaccines. Xu F, et al. **Dev Biol Stand** 1996;87:201–5

Characterization of intermediates in the oxidation of zinc fingers in human immunodeficiency virus type 1 nucleocapsid protein P7. Hathout Y, et al. **Drug Metab Dispos** 1996 Dec;24(12):1395–400

A plant viral coat protein RNA binding consensus sequence contains a crucial arginine [published erratum appears in EMBO J 1996 Dec 16;15(24):7188–9] Ansel-McKinney P, et al. **EMBO J** 1996 Sep 16;15(18):5077–84

Structural analysis of membrane-bound retrovirus capsid proteins. Barklis E, et al. **EMBO J** 1997 Mar 17; 16(6):1199–213

Mutagenesis of a stacking contact in the MS2 coat protein-RNA complex. LeCuyer KA, et al. **EMBO J** 1996 Dec 16;15(24):6847–53

Adenovirus 3 penton dodecahedron exhibits structural changes of the base on fibre binding. Schoehn G, et al. **EMBO J** 1996 Dec 16;15(24):6841–6

High-resolution structure of a polyomavirus VP1-oligosaccharide complex: implications for assembly and receptor binding. Stehle T, et al. **EMBO J** 1997 Aug 15;16(16):5139–48

Targeting of adenovirus penton base to new receptors through replacement of its RGD motif with other receptor-specific peptide motifs. Wickham TJ, et al. **Gene Ther** 1995 Dec;2(10):750–6

A cyclic disulfide peptide reproduces in solution the main structural features of a native antigenic site of foot-and-mouth disease virus. Haack T, et al. **Int J Biol Macromol** 1997 Jun;20(3):209–19

No tRNA3Lys unwinding in a complex with HIV NCp7. Gregoire CJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25143–8

NMR studies on the flexibility of the poliovirus C3 linear epitope inserted into different sites of the maltose-binding protein. Lecroisey A, et al. **J Biol Chem** 1997 Jan 3; 272(1):362–8

Cell-surface interactions of echovirus 22. Pulli T, et al. **J Biol Chem** 1997 Aug 22;272(34):21176–80

Deletion mapping of functional domains in the rotavirus capsid protein VP6. Affranchino JL, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1949–55

Identification of a 24 kDa protein expressed by chicken anaemia virus. Douglas AJ, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1557–62

Capsid sequence diversity in small round structured viruses from recent UK outbreaks of gastroenteritis. Green SM, et al. **J Med Virol** 1997 May;52(1):14–9

fd coat protein structure in membrane environments: structural dynamics of the loop between the hydrophobic trans-membrane helix and the amphipathic in-plane helix. Almeida FC, et al. **J Mol Biol** 1997 Jul 18;270(3):481–95

Structural analysis of Sindbis virus capsid mutants involving assembly and catalysis [published erratum appears in J Mol Biol 1997 Feb 28;266(3):633–4] Choi HK, et al. **J Mol Biol** 1996 Sep 20;262(2):151–67

Modeling supra-molecular helices: extension of the molecular surface recognition algorithm and application to the protein coat of the tobacco mosaic virus. Eisenstein M, et al. **J Mol Biol** 1997 Feb 14;266(1):135–43

Analysis of phage MS2 coat protein mutants expressed from a reconstituted phagemid reveals that proline 78 is essential for viral infectivity. Hill HR, et al. **J Mol Biol** 1997 Feb 14;266(1):1–7

NMR structure of the principal neutralizing determinant of HIV-1 displayed in filamentous bacteriophage coat protein. Jelinek R, et al. **J Mol Biol** 1997 Mar 7;266(4):649–55

Bacteriophage P22 scaffolding protein forms oligomers in solution. Parker MH, et al. **J Mol Biol** 1997 May 9; 268(3):655–65

The crystal structure of bacteriophage GA and a comparison of bacteriophages belonging to the major groups of Escherichia coli leviviruses. Tars K, et al. **J Mol Biol** 1997 Sep 5;271(5):759–73

The three-dimensional structures of two complexes between recombinant MS2 capsids and RNA operator fragments reveal sequence-specific protein-RNA interactions. Valegård K, et al. **J Mol Biol** 1997 Aug 1;270(5):724–38

Canine parvovirus capsid structure, analyzed at 2.9 A resolution. Xie Q, et al. **J Mol Biol** 1996 Dec 6; 264(3):497–520

The effect of Theiler's murine encephalomyelitis virus (TMEV) VP1 carboxyl region on the virus-induced central nervous system disease [published erratum appears in J Neurovirol 1995 Dec;1(5–6):411] Senkowski A, et al. **J Neurovirol** 1995 Mar;1(1):101–10

Structural analysis of A-protein of cucumber green mottle mosaic virus and tobacco mosaic virus by synchrotron small-angle X-ray scattering. Sano Y, et al. **J Protein Chem** 1997 Feb;16(2):151–9

Multiple conformational states of the bacteriophage T4 capsid surface lattice induced when expansion occurs without prior cleavage. Kocsis E, et al. **J Struct Biol** 1997 Feb; 118(1):73–82

Carboxy-terminal cleavage of the human foamy virus Gag precursor molecule is an essential step in the viral life cycle. Enssle J, et al. **J Virol** 1997 Oct;71(10):7312–7

Structure-based rationale for the rescue of systemic movement of brome mosaic virus by spontaneous second-site mutations in the coat protein gene. Flasinski S, et al. **J Virol** 1997 Mar;71(3):2500–4

Role of VP2 amino acid 141 in tropism of Theiler's virus within the central nervous system. Jarousse N, et al. **J Virol** 1996 Nov;70(11):8213–7

The structure of alfalfa mosaic virus capsid protein assembled as a T=1 icosahedral particle at 4.0-A resolution. Kumar A, et al. **J Virol** 1997 Oct;71(10):7911–6

Protein architecture of avian reovirus S1133 and identification of the cell attachment protein. Martínez-Costas J, et al. **J Virol** 1997 Jan;71(1):59–64

The carboxy-terminal two-thirds of the cowpea chlorotic mottle bromovirus capsid protein is incapable of virion formation yet supports systemic movement. Schneider WL, et al. **J Virol** 1997 Jun;71(6):4862–5

Biochemical characterization of a smaller form of recombinant Norwalk virus capsids assembled in insect cells. White LJ, et al. **J Virol** 1997 Oct;71(10):8066–72

Fault lines in the HIV core? [editorial] **Nat Struct Biol** 1997 Feb;4(2):85–6

Structural studies of poliovirus mutants that overcome receptor defects. Wien MW, et al. **Nat Struct Biol** 1997 Aug;4(8):666–74

Structure of a viral procapsid with molecular scaffolding. Dokland T, et al. **Nature** 1997 Sep 18;389(6648):308–13

The pentamer channel stiffening model for drug action on human rhinovirus HRV-1A. Vaidehi N, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2466–71

Localization of the C terminus of the assembly domain of hepatitis B virus capsid protein: implications for morphogenesis and organization of encapsidated RNA. Zlotnick A, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9556–61

Crystal structure of the coat protein from the GA bacteriophage: model of the unassembled dimer. Ni CZ, et al. **Protein Sci** 1996 Dec;5(12):2485–93

Structure and dynamics of the M13 coat signal sequence in membranes by multidimensional high-resolution and solid-state NMR spectroscopy. Bechinger B. **Proteins** 1997 Apr;27(4):481–92

Use of the multiple copy simultaneous search (MCSS) method to design a new class of picornavirus capsid binding drugs. Joseph-McCarthy D, et al. **Proteins** 1997 Sep; 29(1):32–58

Shuffling of structural elements in filamentous bacteriophages. Kishchenko G, et al. **Proteins** 1997 Mar; 27(3):405–9

Perturbations in the surface structure of A22 Iraq foot-and-mouth disease virus accompanying coupled changes in host cell specificity and antigenicity. Curry S, et al. **Structure** 1996 Feb 15;4(2):135–45

The structure of simian virus 40 refined at 3.1 A resolution. Stehle T, et al. **Structure** 1996 Feb 15;4(2):165–82

Crystal structures of murine polyomavirus in complex with straight-chain and branched-chain sialyloligosaccharide receptor fragments. Stehle T, et al. **Structure** 1996 Feb 15; 4(2):183–94

Structure determination of simian virus 40 and murine polyomavirus by a combination of 30-fold and 5-fold electron-density averaging. Yan Y, et al. **Structure** 1996 Feb 15;4(2):157–64

Human rhinovirus 3 at 3.0 A resolution. Zhao R, et al. **Structure** 1996 Oct 15;4(10):1205–20

Structure of the herpes simplex virus capsid: peptide A862-H880 of the major capsid protein is displayed on the rim of the capsomer protrusions. Spencer JV, et al. **Virology** 1997 Feb 17;228(2):229–35

Capsid protein composition of reference strains and wild isolates of human astroviruses. Belliot G, et al. **Virus Res** 1997 May;49(1):49–57

Sequence analysis of equine adenovirus 2 hexon and 23K proteinase genes indicates a phylogenetic origin distinct from equine adenovirus 1. Reubel GH, et al. **Virus Res** 1997 Jul;50(1):41–56

CLASSIFICATION

Bovine rotavirus strain 678 possesses VP4 of serotype P7[5] specificity. Nakagomi T, et al. **Arch Virol** 1997; 142(6):1255–62

VP4 and VP7 typing using monoclonal antibodies. Coulson BS. **Arch Virol Suppl** 1996;12:113–8 (23 ref.)

Classification of rotavirus VP4 and VP7 serotypes. Hoshino Y, et al. **Arch Virol Suppl** 1996;12:99–111

Comparison of polymerase chain reaction and monoclonal antibodies for G-typing of group A bovine rotavirus directly from fecal material. Hussein HA, et al. **Vet Microbiol** 1996 Jul;51(1–2):11–7

Bovine rotavirus 993/83 shows a third subtype of avian VP7 protein. Rohwedder A, et al. **Virus Genes** 1997;14(2):147–51

DRUG EFFECTS

A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'-dithiobisbenzamides. Domagala JM, et al. **Bioorg Med Chem** 1997 Mar; 5(3):569–79

Biophysical characterization of zinc ejection from HIV nucleocapsid protein by anti-HIV 2,2'-dithiobis[benzamides] and benzisothiazolones. Loo JA, et al. **J Med Chem** 1996 Oct 11;39(21):4313–20

Azodicarbonamide inhibits HIV-1 replication by targeting the nucleocapsid protein. Rice WG, et al. **Nat Med** 1997 Mar;3(3):341–5

GENETICS

Sequence analysis of VP7 gene of two Nigerian rotavirus strains. Adah MI, et al. **Acta Virol** 1996 Sep;40(4):187–93

Type 2 poliovirus recombinants isolated from vaccine-associated cases and from healthy contacts in Brazil. Friedrich F, et al. **Acta Virol** 1996 Feb;40(1):27–33

Sequence analysis of VP7 gene of a bovine rotavirus with G6 subtype. Mummidi S, et al. **Adv Exp Med Biol** 1997; 412:93–4

Wild-type and mutant HIV type 1 nucleocapsid proteins increase the proportion of long cDNA transcripts by viral reverse transcriptase. Drummond JE, et al. **AIDS Res Hum Retroviruses** 1997 May 1;13(7):533–43

Selection of rotavirus VP7 gene in the genetic background of simian rotavirus SA11: implications for rotavirus reassortant vaccine development. Kobayashi N, et al. **Antiviral Res** 1996 Jul;31(3):185–90

Genomic classification of fish nodaviruses by molecular phylogenetic analysis of the coat protein gene. Nishizawa T, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1633–6

Sequence of the avian adenovirus FAV 1 (CELO) DNA encoding the hexon-associated protein pVI and hexon. Akopian TA, et al. **Arch Virol** 1996;141(9):1759–65

The characterization of VP7 (G type) and VP4 (P type) genes of bovine group A rotaviruses from field samples using RT-PCR and RFLP analysis. Chang KO, et al. **Arch Virol** 1996;141(9):1727–39

Identification and transcriptional analysis of pseudorabies virus UL6 to UL12 genes. Dijkstra JM, et al. **Arch Virol** 1997;142(1):17–35

Divergence of VP7 genes of G1 rotaviruses isolated from infants vaccinated with reassortant rhesus rotaviruses. Jin Q, et al. **Arch Virol** 1996;141(11):2057–76

Genetic content of a 20.9 kb segment of human herpesvirus 6B strain Z29 spanning the homologs of human herpesvirus 6A genes U40–57 and containing the origin of DNA replication. Lindquester GJ, et al. **Arch Virol** 1997; 142(1):103–23

The coat protein gene of grapevine leafroll associated closterovirus-3: cloning, nucleotide sequencing and expression in transgenic plants. Ling KS, et al. **Arch Virol** 1997;142(6):1101–16

Identification, cloning and sequence analysis of the equine adenovirus 1 hexon gene. Reubel GH, et al. **Arch Virol** 1997;142(6):1193–212

Deletion analysis of a translational enhancer upstream from the coat protein open reading frame of potato virus S. Turner R, et al. **Arch Virol** 1997;142(1):167–75

Genetic variation in the VP7 gene of human rotavirus serotype 3 (G3 type) isolated in China and Japan. Wen L, et al. **Arch Virol** 1997;142(7):1481–9

Identification of the minimal replicase and the minimal promoter of (–)-strand synthesis, functional in rotavirus RNA replication in vitro. Wentz MJ, et al. **Arch Virol Suppl** 1996;12:59–67

Molecular identification of infectious bursal disease virus strains. Jackwood DJ, et al. **Avian Dis** 1997 Jan–Mar; 41(1):97–104

Cloning, expression and purification of the coat protein of encephalitis virus (DIEV) infecting Dicentrarchus labrax. Sideris DC. **Biochem Mol Biol Int** 1997 Jun;42(2):409–17

Sequence analysis of the capsid gene of feline calicivirus strain F65. Glenn MA, et al. **Biochem Soc Trans** 1996 Aug; 24(3):414S

Nucleotide sequences from the capsid and pre-protein regions of dengue viruses from VietNam. Nguyen NH, et al. **Biochem Soc Trans** 1997 Feb;25(1):54S

Construction, exploitation and evolution of a new peptide library displayed at high density by fusion to the major coat protein of filamentous phage. Iannolo G, et al. **Biol Chem** 1997 Jun;378(6):517–21

Increased stability of phage T7g10 mRNA is mediated by either a 5'- or a 3'-terminal stem-loop structure. Mertens N, et al. **Biol Chem** 1996 Dec;377(12):811–7

Molecular characterization of coat protein genes of serologically distinct isolates of potato virus Y necrotic strain. Dhar AK, et al. **Can J Microbiol** 1997 Jul; 43(7):677–83

The cloning, sequence analysis, and expression in E. coli of coat protein gene of grapevine fanleaf virus Gh. Guan H, et al. **Chin J Biotechnol** 1996;12(2):73–9

Sequence of the VP7 gene of an atypical human rotavirus: evidence for genetic and antigenic drift. Palombo EA, et al. **DNA Seq** 1997;7(5):307–11

Expression of natural and synthetic genes encoding herpes simplex virus 1 protease in Escherichia coli and purification of the protein. Apeler H, et al. **Eur J Biochem** 1997 Aug 1;247(3):890–5

Peptide display on functional tailspike protein of bacteriophage P22. Carbonell X, et al. **Gene** 1996 Oct 17; 176(1–2):225–9

Cloning and nucleotide sequence of the major capsid proteins of Lactobacillus bacteriophage phi gle. Kakikawa M, et al. **Gene** 1996 Oct 10;175(1–2):157–65

Characterization of a domain of the genome of BmNPV containing a functional gene for a small capsid protein and harboring deletions eliminating three open reading frames that are present in AcNPV. Lu M, et al. **Gene** 1997 Jan 31;185(1):69–75

Use of reverse transcription-polymerase chain reaction for cloning of coat protein-encoding genes of cymbidium mosaic virus. Srifah P, et al. **Gene** 1996 Nov 7;179(1):105–7

Periplasmic expression of part of the major rotavirus capsid protein VP7 containing all the three antigenic regions in Escherichia coli. Wang L, et al. **Gene** 1996 Oct 24; 177(1–2):155–62

In vitro assembly of SV40 virions and pseudovirions: vector development for gene therapy. Sandalon Z, et al. **Hum Gene Ther** 1997 May 1;8(7):843–9

RNA phage Q beta coat protein as a carrier for foreign epitopes. Kozlovska TM, et al. **Intervirology** 1996; 39(1–2):9–15 (19 ref.)

Detection of group B rotaviruses in fecal samples from diarrheic calves and adult cows and characterization of their VP7 genes. Chang KO, et al. **J Clin Microbiol** 1997 Aug;35(8):2107–10

Expression and self-assembly of recombinant capsid protein from the antigenically distinct Hawaii human calicivirus. Green KY, et al. **J Clin Microbiol** 1997 Jul;35(7):1909–14

Molecular analysis of outer capsid glycoprotein (VP7) genes from two isolates of human group C rotavirus with different genome electropherotypes. Kuzuya M, et al. **J Clin Microbiol** 1996 Dec;34(12):3185–9

Analysis of the sequence diversity of the P1, HC, P3, NIb and CP genomic regions of several yam mosaic potyvirus isolates: implications for the intraspecies molecular diversity of potyviruses. Aleman-Verdaguer ME, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1253–64

Molecular epidemiology of type 1 polioviruses from Africa. Chezzi C, et al. **J Gen Virol** 1997 May;78 (Pt 5):1017–24

Similarity in genome organization between Molluscum contagiosum virus (MCV) and vaccinia virus (VV): identification of MCV homologues of the VV genes for protein kinase 2, structural protein VP8, RNA polymerase 35 kDa subunit and 3beta-hydroxysteroid dehydrogenase. Douglass NJ, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3113–20

Genetic diversity of human parvovirus B19: sequence analysis of the VP1/VP2 gene from multiple isolates. Erdman DD, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2767–74

Beet soil-borne virus RNA 2: similarities and dissimilarities to the coat protein gene-carrying RNAs of other furoviruses. Koenig R, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):469–77

Cloning, sequence analysis and expression of the major outer capsid protein gene of an aquareovirus. Lupiani B, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1379–83

Comparison of the coat protein genes of five fish nodaviruses, the causative agents of viral nervous necrosis in marine fish. Nishizawa T, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1563–9

Point mutations in the coat protein of cucumber mosaic virus affect symptom expression and virion accumulation in tobacco. Suzuki M, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1791–9

Genetic analysis of wild-type poliovirus importation into The Netherlands (1979–1995). Mulders MN, et al. **J Infect Dis** 1997 Sep;176(3):617–24

Capsid sequence diversity in small round structured viruses from recent UK outbreaks of gastroenteritis. Green SM, et al. **J Med Virol** 1997 May;52(1):14–9

Rapid evolution of translational control mechanisms in RNA genomes. Klovins J, et al. **J Mol Biol** 1997 Jan 31; 265(4):372–84

The low processivity of T7 RNA polymerase over the initially transcribed sequence can limit productive initiation in vivo. Lopez PJ, et al. **J Mol Biol** 1997 May 30; 269(1):41–51

Novel mutants in the 5'upstream region of the portal protein gene 20 overcome a gp40-dependent prohead assembly block in bacteriophage T4. Yap NL, et al. **J Mol Biol** 1996 Nov 8;263(4):539–50

Capsid protein VP1 deletions in JC virus from two AIDS patients with progressive multifocal leukoencephalopathy. Stoner GL, et al. **J Neurovirol** 1995 Jun;1(2):189–94

Characterization of the products of the U(L)43 gene of herpes simplex virus 1: potential implications for regulation of gene expression by antisense transcription. Carter KL, et al. **J Virol** 1996 Nov;70(11):7663–8

Structure-based rationale for the rescue of systemic movement of brome mosaic virus by spontaneous second-site mutations in the coat protein gene. Flasinski S, et al. **J Virol** 1997 Mar;71(3):2500–4

Human cytomegalovirus (HCMV) smallest capsid protein identified as product of short open reading frame located between HCMV UL48 and UL49. Gibson W, et al. **J Virol** 1996 Aug;70(8):5680–3

Molecular characterization of replication-competent variants of adenovirus vectors and genome modifications to prevent their occurrence. Hehir KM, et al. **J Virol** 1996 Dec; 70(12):8459–67

Identification of domains in canine parvovirus VP2 essential for the assembly of virus-like particles. Hurtado A, et al. **J Virol** 1996 Aug;70(8):5422–9

A mutation in the puff region of VP2 attenuates the myocarditic phenotype of an infectious cDNA of the Woodruff variant of coxsackievirus B3. Knowlton KU, et al. **J Virol** 1996 Nov;70(11):7811–8

Rhodanine resistance and dependence of echovirus 12: a possible consequence of capsid flexibility. Kraus W, et al. **J Virol** 1997 Feb;71(2):1697–702

Expression of the human papillomavirus type 11 L1 capsid protein in Escherichia coli: characterization of protein domains involved in DNA binding and capsid assembly. Li M, et al. **J Virol** 1997 Apr;71(4):2988–95

Characterization of the minute virus of mice P38 core promoter elements. Lorson C, et al. **J Virol** 1997 Sep; 71(9):6568–75

The product of the adenovirus intermediate gene IX is a transcriptional activator. Lutz P, et al. **J Virol** 1997 Jul; 71(7):5102–9

Characterization of an ATPase activity in reovirus cores and its genetic association with core-shell protein lambda1. Noble S, et al. **J Virol** 1997 Mar;71(3):2182–91

Assembly of herpes simplex virus capsids using the human cytomegalovirus scaffold protein: critical role of the C terminus. Oien NL, et al. **J Virol** 1997 Feb;71(2):1281–91

Selective targeting of human cells by a chimeric adenovirus vector containing a modified fiber protein. Stevenson SC, et al. **J Virol** 1997 Jun;71(6):4782–90

Linkage between reovirus-induced apoptosis and inhibition of cellular DNA synthesis: role of the S1 and M2 genes. Tyler KL, et al. **J Virol** 1996 Nov;70(11):7984–91

Analysis of recombinant adeno-associated virus packaging and requirements for rep and cap gene products. Vincent KA, et al. **J Virol** 1997 Mar;71(3):1897–905

Reovirus variants selected during persistent infections of L cells contain mutations in the viral S1 and S4 genes and are altered in viral disassembly. Wetzel JD, et al. **J Virol** 1997 Feb;71(2):1362–9

Use of non-radioactive probes for VP4 typing of human rotaviruses. Gorrell RJ, et al. **J Virol Methods** 1996 Sep; 61(1–2):59–64

Detection of stylet-borne and circulative potato viruses in aphids by duplex reverse transcription polymerase chain reaction [published erratum appears in J Virol Methods 1996 Jul;60(2):183] Singh RP, et al. **J Virol Methods** 1996 May;59(1–2):189–96

Characterization of the double-stranded RNA genome segment S3 of avian reovirus. Yin HS, et al. **J Virol Methods** 1997 Aug;67(1):93–101

Identification of a competitive translation determinant in the 3' untranslated region of alfalfa mosaic virus coat protein mRNA. Hann LE, et al. **Mol Cell Biol** 1997 Apr; 17(4):2005–13

Coat protein gene and 3'-noncoding region of a new Korean isolate of cymbidium mosaic virus. Youn HS, et al. **Mol Cells** 1997 Feb 28;7(1):34–9

Mutations of the coat protein gene of bacteriophage lambda that overcome the necessity for the Fl gene; the EFi domain. Murialdo H, et al. **Mol Microbiol** 1997 Apr; 24(2):341–53

The coat protein is required for the elicitation of the Capsicum L2 gene-mediated resistance against the tobamoviruses. de la Cruz A, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):107–13

Adenovirus dodecahedron, a new vector for human gene transfer [see comments] Fender P, et al. **Nat Biotechnol** 1997 Jan;15(1):52–6. Comment in: Nat Biotechnol 1997 Jan;15(1):17.

Direct genetic selection of two classes of R17/MS2 coat proteins with altered capsid assembly properties and expanded RNA-binding activities. Wang S, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1649–57

Invasion of minor veins of tobacco leaves inoculated with tobacco mosaic virus mutants defective in phloem-dependent movement. Ding X, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11155–60

PCR-based detection and typing of human adenoviruses in clinical samples. Pring-Akerblom P, et al. **Res Virol** 1997 May-Jun;148(3):225–31

Hexon sequence of adenovirus type 7 and comparison with other serotypes of subgenus B. Pring-Akerblom P, et al. **Res Virol** 1995 Nov-Dec;146(6):383–388

Characterization of enzootic nasal tumor virus capsid antigen. Rosati S, et al. **Vet Microbiol** 1996 Dec;53(3–4):261–9

A major rearrangement of the VP6 gene of a strain of rotavirus provides replication advantage. Xu Z, et al. **Vet Microbiol** 1996 Oct;52(3–4):235–47

Amino acid substitutions in the CA protein of Moloney murine leukemia virus that block early events in infection. Alin K, et al. **Virology** 1996 Aug 15;222(2):339–51

Fiber genes of adenoviruses with tropism for the eye and the genital tract. Arnberg N, et al. **Virology** 1997 Jan 6; 227(1):239–44

Molecular characterization of the segment 2 gene of epizootic hemorrhagic disease virus serotype 2: gene sequence and genetic diversity. Cheney IW, et al. **Virology** 1996 Oct 15; 224(2):555–60

CAPSID

Adenovirus serotype evolution is driven by illegitimate recombination in the hypervariable regions of the hexon protein. Crawford-Miksza LK, et al. **Virology** 1996 Oct 15;224(2):357-67

Effects of coat protein mutations and reduced movement protein expression on infection spread by cowpea chlorotic mottle virus and its hybrid derivatives. De Jong W, et al. **Virology** 1997 May 26;232(1):167-73

Secondary structure model of the coat protein gene of turnip yellow mosaic virus RNA: long, C-rich, single-stranded regions. Hellendoorn K, et al. **Virology** 1996 Oct 1; 224(1):43-54

Mutations that alter a conserved element upstream of the potato virus X triple block and coat protein genes affect subgenomic RNA accumulation. Kim KH, et al. **Virology** 1997 May 26;232(1):187-97

Single amino acid changes in the murine leukemia virus capsid protein gene define the target of Fv1 resistance. Kozak CA, et al. **Virology** 1996 Nov 15;225(2):300-5

Association of a baculovirus-encoded protein with the capsid basal region. Russell RLQ, et al. **Virology** 1997 Jan 6; 227(1):142-52

Regulation of a geminivirus coat protein promoter by AL2 protein (TrAP): evidence for activation and derepression mechanisms. Sunter G, et al. **Virology** 1997 Jun 9; 232(2):269-80

A member of the immunoglobulin superfamily in bacteriophage T4. Bateman A, et al. **Virus Genes** 1997; 14(2):163-5

Comparison of the nucleotide sequence of the coat protein open reading frame of nine isolates of wheat streak mosaic rymovirus. Chenault KD, et al. **Virus Genes** 1996; 13(3):187-8

Sequence and phylogenetic analysis of the VP7 gene of a bovine rotavirus with G6 subtype [letter] Mummidi S, et al. **Virus Genes** 1996;12(3):203-4

Bovine rotavirus 993/83 shows a third subtype of avian VP7 protein. Rohwedder A, et al. **Virus Genes** 1997;14(2):147-51

The VP3 gene of human group C rotavirus. Samarbaf-Zadeh AR, et al. **Virus Genes** 1996;13(2):169-73

Microheterogeneity of p60 capsid protein and the encoding gene among contemporary isolates of rabbit hemorrhagic disease virus. Viaplana E, et al. **Virus Genes** 1996; 12(2):189-92

Sequence analysis of wheat and oat furovirus capsid protein genes suggests that oat golden stripe virus is a strain of soil-borne wheat mosaic virus. Chen J, et al. **Virus Res** 1996 Apr;41(2):179-83

Evidence for the assignment of two strains of SPLV to the genus Potyvirus based on coat protein and 3' non-coding region sequence data. Colinet D, et al. **Virus Res** 1997 May; 49(1):91-100

Comparative sequence analysis and expression of the M6 gene, encoding the outer capsid protein VP5, of African horsesickness virus serotype nine. du Plessis M, et al. **Virus Res** 1997 Jan;47(1):41-9

Sequence analysis of the VP6 gene in group A turkey and chicken rotaviruses. Ito H, et al. **Virus Res** 1997 Jan; 47(1):79-83

Nucleotide sequence of the coat protein genes of citrus mosaic virus. Iwanami T, et al. **Virus Res** 1996 Jun; 42(1-2):181-6

Analysis of sequence and pathogenic properties of two variants of encephalomyocarditis virus differing in a single amino acid in VP1. Nelsen-Salz B, et al. **Virus Res** 1996 Apr;41(2):109-22

Characterisation of Wongorr virus, an Australian orbivirus. Parkes H, et al. **Virus Res** 1996 Oct;44(2):111-22

Phylogenetic comparison of the serotype-specific VP2 protein of bluetongue and related orbiviruses. Pritchard LI, et al. **Virus Res** 1995 Dec;39(2-3):207-20

Sequence analysis of equine adenovirus 2 hexon and 23K proteinase genes indicates a phylogenetic origin distinct from equine adenovirus 1. Reubel GH, et al. **Virus Res** 1997 Jul;50(1):41-56

Identification and characterization of penton base and pVIII protein of egg drop syndrome virus. Rohn K, et al. **Virus Res** 1997 Jan;47(1):59-65

Serological and molecular analysis of serotype O foot-and-mouth disease virus isolated from disease outbreaks in India during 1987-91. Singh M, et al. **Virus Res** 1996 Jul;43(1):45-55

Molecular cloning and sequence analysis of the penton base genes of type II avian adenoviruses. Suresh M, et al. **Virus Res** 1995 Dec;39(2-3):289-97

IMMUNOLOGY

Intertype specific epitopes on the hexons of adenovirus types 1, 2, 5 and 6. Adám E, et al. **Acta Microbiol Immunol Hung** 1996;43(1):75-82

Detection of JC virus by anti-VP1 immunohistochemistry in brains with progressive multifocal leukoencephalopathy. Jochum W, et al. **Acta Neuropathol (Berl)** 1997 Sep; 94(3):226-31

Diagnostic importance of heterophile antibodies and immunoglobulins IgA, IgE, IgM and low-avidity IgG against Epstein-Barr virus capsid antigen in children. Votava M, et al. **Acta Virol** 1996 Apr;40(2):99-101

Maternal immunization of pregnant cattle with recombinant VP8* protein of bovine rotavirus elicits neutralizing antibodies to multiple serotypes. Colostral neutralizing antibody by rotavirus VP8*. Yoo D, et al. **Adv Exp Med Biol** 1997;412:405-11

Phage-displayed Fab fragments against anti-human interleukin-2 receptor alpha. Detection of antigen-bound phages with anti-cpIII monoclonal antibodies. Raivio E, et al. **APMIS** 1997 Feb;105(2):108-14

Characterization of adenovirus hexons by their epitope composition. Adám E, et al. **Arch Virol** 1996; 141(10):1891-907

Mapping of antigenic sites on the major inner capsid protein of avian rotavirus using an Escherichia coli expression system. Ito H, et al. **Arch Virol** 1996;141(11):2129-38

Neutralization of rotavirus and recognition of immunologically important epitopes on VP4 and VP7 by human IgA. Johansen K, et al. **Arch Virol** 1997; 142(7):1491-8

Epitope mapping of capsid proteins VP2 and VP3 of infectious bursal disease virus. Yamaguchi T, et al. **Arch Virol** 1996;141(8):1493-507

DNA vaccines against rotavirus infections. Herrmann JE, et al. **Arch Virol Suppl** 1996;12:207-15

Evaluation of filamentous bacteriophage as immunogens in Atlantic salmon. Coull JJ, et al. **Biochem Soc Trans** 1996 May;24(2):255S

Differential reactivity of a monoclonal antibody directed to the membrane protein of porcine reproductive and respiratory syndrome virus. Magar R, et al. **Can J Vet Res** 1997 Jan;61(1):69-71

Expression, characterization, and immunoreactivities of a soluble hepatitis E virus putative capsid protein species expressed in insect cells. Zhang Y, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):423-8

Mimicry of viral epitopes with retro-inverso peptides of increased stability. Benkirane N, et al. **Dev Biol Stand** 1996; 87:283-91

Humoral immune response to the capsid components of recombinant adenoviruses: routes of immunization modulate virus-induced Ig subclass shifts. Gahéry-Ségard H, et al. **Eur J Immunol** 1997 Mar;27(3):653-9

The effect of space flight on monoclonal antibody synthesis in a hybridoma mouse cell line. Smiley SA, et al. **Exp Cell Res** 1997 Feb 1;230(2):411-4

Converging antigenic structure of a recombinant viral peptide displayed on different frameworks of carrier proteins. Carbonell X, et al. **FEBS Lett** 1996 Nov 18;397(2-3):169-72

Overcoming the crypticity of a viral T cell determinant by insertion into a chimeric bacterial protein. Lo-Man R, et al. **Int Immunol** 1996 Aug;8(8):1245-55

A cyclic disulfide peptide reproduces in solution the main structural features of a native antigenic site of foot-and-mouth disease virus. Haack T, et al. **Int J Biol Macromol** 1997 Jun;20(3):209-19

Serological diagnosis of hantavirus infections by an enzyme-linked immunosorbent assay based on detection of immunoglobulin G and M responses to recombinant nucleocapsid proteins of five viral serotypes. Elgh F, et al. **J Clin Microbiol** 1997 May;35(5):1122-30

Immune response to hepatitis A virus capsid proteins after infection [published erratum appears in J Clin Microbiol 1996 Jun;34(6):1601] Wang CH, et al. **J Clin Microbiol** 1996 Mar;34(3):707-13

A study of the cellular immune response to enteroviruses in humans: identification of cross-reactive T cell epitopes on the structural proteins of enteroviruses. Cello J, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2097-108

Mapping of the target antigens of the rotavirus-specific cytotoxic T cell response. Heath RR, et al. **J Gen Virol** 1997 May;78 (Pt 5):1065-75

Expression of muscovy duck parvovirus capsid proteins (VP2 and VP3) in a baculovirus expression system and demonstration of immunity induced by the recombinant proteins. Le Gall-Reculé G, et al. **J Gen Virol** 1996 Sep; 77 (Pt 9):2159-63

Recombinant baculovirus-synthesized African horsesickness virus (AHSV) outer-capsid protein VP2 provides protection against virulent AHSV challenge. Roy P, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2053-7

Mapping of antigenic sites involved in neutralization on the capsid protein of feline calicivirus. Tohya Y, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):303-5

A monoclonal antibody against intact human papillomavirus type 16 capsids blocks the serological reactivity of most human sera. Wang Z, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2209-15

Modulation of the antigenic reactivity of the citrus tristeza virus coat protein. Nikolaeva OV, et al. **J Immunol Methods** 1997 Aug 7;206(1-2):97-105

The natural history of human papillomavirus type 16 capsid antibodies among a cohort of university women. Carter JJ, et al. **J Infect Dis** 1996 Nov;174(5):927-36

Detection of serum antibodies to a Kaposi's sarcoma-associated herpesvirus-specific peptide. Davis DA, et al. **J Infect Dis** 1997 May;175(5):1071-9

Heterotypic protection following oral immunization with live heterologous rotaviruses in a mouse model. Feng N, et al. **J Infect Dis** 1997 Feb;175(2):330-41

Seroprevalence of human papillomavirus types 6 and 16 capsid antibodies in homosexual men. Hagensee ME, et al. **J Infect Dis** 1997 Sep;176(3):625-31

Analysis of the systemic and intrathecal humoral immune response in progressive multifocal leukoencephalopathy. Weber T, et al. **J Infect Dis** 1997 Jul;176(1):250-4

Seroepidemiological study of Epstein-Barr virus infection in Bangladesh. Haque T, et al. **J Med Virol** 1996 Jan; 48(1):17-21

Construction of four double gene substitution human x bovine rotavirus reassortant vaccine candidates: each bears two outer capsid human rotavirus genes, one encoding P serotype 1A and the other encoding G serotype 1, 2, 3, or 4 specificity. Hoshino Y, et al. **J Med Virol** 1997 Apr; 51(4):319-25

Follow-up study of clinical and immunological findings in patients presenting with acute parvovirus B19 infection. Kerr JR, et al. **J Med Virol** 1996 Jan;48(1):68-75

Detection of antibodies against viral capsid proteins of human herpesvirus 8 in AIDS-associated Kaposi's sarcoma. André S, et al. **J Mol Med** 1997 Feb;75(2):145-52

Comparative interaction kinetics of two recombinant Fabs and of the corresponding antibodies directed to the coat protein of tobacco mosaic virus. Chatellier J, et al. **J Mol Recognit** 1996 Jan-Feb;9(1):39-51

Identification of canine calicivirus capsid protein and its immunoreactivity in western blotting. San Gabriel MC, et al. **J Vet Med Sci** 1997 Feb;59(2):97-101

Identification of a T-helper cell epitope on the rotavirus VP6 protein. Baños DM, et al. **J Virol** 1997 Jan;71(1):419-26

Expression of Aleutian mink disease parvovirus capsid proteins in defined segments: localization of immunoreactive sites and neutralizing epitopes to specific regions. Bloom ME, et al. **J Virol** 1997 Jan;71(1):705-14

Brain-infiltrating cytolytic T lymphocytes specific for Theiler's virus recognize H2Db molecules complexed with a viral VP2 peptide lacking a consensus anchor residue. Borson ND, et al. **J Virol** 1997 Jul;71(7):5244-50

Theiler's virus and Mengo virus induce cross-reactive cytotoxic T lymphocytes restricted to the same immunodominant VP2 epitope in C57BL/6 mice. Dethlefs S, et al. **J Virol** 1997 Jul;71(7):5361-5

Immunogenicity of an aphthovirus chimera of the glycoprotein of vesicular stomatitis virus. Grigera PR, et al. **J Virol** 1996 Dec;70(12):8492-501

Identification, expression, and immunogenicity of Kaposi's sarcoma-associated herpesvirus-encoded small viral capsid antigen. Lin SF, et al. **J Virol** 1997 Apr;71(4):3069-76

Two 21-kilodalton components of the Epstein-Barr virus capsid antigen complex and their relationship to ZEBRA-associated protein p21 (ZAP21). Serio TR, et al. **J Virol** 1996 Nov;70(11):8047-54

A large-scale evaluation of peptide vaccines against foot-and-mouth disease: lack of solid protection in cattle and isolation of escape mutants. Taboga O, et al. **J Virol** 1997 Apr;71(4):2606-14

Major linear antibody epitopes and capsid proteins differentially induce protective immunity against Theiler's virus-induced demyelinating disease. Yahikozawa H, et al. **J Virol** 1997 Apr;71(4):3105-13

Production of the antigen and the antibody of the JC virus major capsid protein VP1. Chang D, et al. **J Virol Methods** 1996 May;59(1-2):177-87

Biotin-labeled antigen: a novel approach for detection of Puumala virus-specific IgM. Ivanov A, et al. **J Virol Methods** 1996 Oct;62(1):87-92

Application of linker-ligation-PCR for construction of phage display epitope libraries. Nagesha HS, et al. **J Virol Methods** 1996 Jul;60(2):147-54

Detection of IgG antibody to Epstein-Barr virus viral capsid antigen in saliva by antibody capture radioimmunoassay. Vyse AJ, et al. **J Virol Methods** 1997 Jan;63(1-2):93-101

Antibodies to human papillomavirus 16, 18, 58, and 6b major capsid proteins among Japanese females. Matsumoto K, et al. **Jpn J Cancer Res** 1997 Apr;88(4):369-75

Antibody against synthetic multiple antigen peptides (MAP) of JC virus capsid protein (VP1) without cross reaction to BK virus: a diagnostic tool for progressive multifocal leukoencephalopathy. Aoki N, et al. **Neurosci Lett** 1996 Feb 23;205(2):111-4

Expression of single-chain antibody fragments (scFv) specific for beet necrotic yellow vein virus coat protein or 25 kDa protein in Escherichia coli and Nicotiana benthamiana. Fecker LF, et al. **Plant Mol Biol** 1996 Dec;32(5):979-86

Phage display of intact domains at high copy number: a system based on SOC, the small outer capsid protein of bacteriophage T4. Ren ZJ, et al. **Protein Sci** 1996 Sep; 5(9):1833-43

Recombinant fibre proteins of human adenoviruses Ad9, Ad15 and Ad19: localization of the haemagglutination properties and the type-specific determinant. Eiz B, et al. **Res Virol** 1997 Jan-Feb;148(1):5-10

Synthetic vaccine against foot-and-mouth disease based on a palmitoyl derivative of the VP1 protein 135-159 fragment of the A22 virus strain. Volpina OM, et al. **Vaccine** 1996 Oct;14(14):1375-80

A complex neutralization domain of bluetongue virus serotype 17 defines a virulence-associated marker. Bernard KA, et al. **Viral Immunol** 1996;9(2):97-106

A peptide encoding a B-cell epitope from the N-terminus of the capsid protein L2 of bovine papillomavirus-4 prevents disease. Campo MS, et al. **Virology** 1997 Aug 4; 234(2):261-6

Particle bombardment-mediated DNA vaccination with rotavirus VP6 induces high levels of serum rotavirus IgG but fails to protect mice against challenge. Choi AH, et al. **Virology** 1997 May 26;232(1):129-38

Characterization of an overlapping CD8+ and CD4+ T-cell epitope on rubella capsid protein. Ou D, et al. **Virology**

1997 Sep 1;235(2):286–92
A neutralization site of DA strain of Theiler's murine encephalomyelitis virus important for disease phenotype. Sato S, et al. **Virology** 1996 Dec 15;226(2):327–37
Structure of Broadhaven virus by cryoelectron microscopy: correlation of structural and antigenic properties of Broadhaven virus and bluetongue virus outer capsid proteins. Schoehn G, et al. **Virology** 1997 Sep 1; 235(2):191–200
A member of the immunoglobulin superfamily in bacteriophage T4. Bateman A, et al. **Virus Genes** 1997; 14(2):163–5
Expression of the major inner capsid protein of the epizootic haemorrhagic disease virus in baculovirus and potential diagnostic use. Nagesha HS, et al. **Virus Res** 1996 Aug; 43(2):163–9
[The TRAF family protein-mediated B cell proliferation signal and the mechanism of LMP1-induced B cell transformation] Inoue J. **Nippon Rinsho** 1997 Feb; 55(2):299–304 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Regulation of apoptosis by the latent infection membrane protein 1 of Epstein-Barr virus] Kawanishi M. **Nippon Rinsho** 1997 Feb;55(2):305–10 (20 ref.) (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Properties of the coat protein of a new tobacco mosaic virus coat protein ts-mutant. Dobrov EN, et al. **J Protein Chem** 1997 Jan;16(1):27–36
Efficient production of JC virus in SVG cells and the use of purified viral antigens for analysis of specific humoral and cellular immune response. Frye S, et al. **J Virol Methods** 1997 Jan;63(1–2):81–92

METABOLISM

Evidence that virion-associated VP1 of avibirnaviruses contains viral RNA sequences. Kibenge FS, et al. **Arch Virol** 1997;142(6):1227–36
Efficient RGD-independent entry process of coxsackievirus A9. Roivainen M, et al. **Arch Virol** 1996;141(10):1909–19
Rotavirus structure: interactions between the structural proteins. Shaw AL, et al. **Arch Virol Suppl** 1996;12:21–7
Cloning, expression and purification of the coat protein of encephalitis virus (DIEV) infecting Dicentrarchus labrax. Sideris DC. **Biochem Mol Biol Int** 1997 Jun;42(2):409–17
Interactions between coat and scaffolding proteins of phage P22 are altered in vitro by amino acid substitutions in coat protein that cause a cold-sensitive phenotype. Teschke CM, et al. **Biochemistry** 1996 Nov 26;35(47):14831–40
Molecular modeling of the RNA binding N-terminal part of cowpea chlorotic mottle virus coat protein in solution with phosphate ions. van der Spoel D, et al. **Biophys J** 1996 Dec;71(6):2920–32
Absconding with the chaperone: essential cyclophilin-Gag interaction in HIV-1 virions. Luban J. **Cell** 1996 Dec 27; 87(7):1157–9
Negatively charged amino acid residues play an active role in orienting the Sec-independent Pf3 coat protein in the Escherichia coli inner membrane. Kiefer D, et al. **EMBO J** 1997 May 1;16(9):2197–204
Direct activation of protein phosphatase-2A0 by HIV-1 encoded protein complex NCp7:vpr. Tung HY, et al. **FEBS Lett** 1997 Jan 20;401(2–3):197–201
A recombinant, arginine-glycine-aspartic acid (RGD) motif from foot-and-mouth disease virus binds mammalian cells through vitronectin and, to a lower extent, fibronectin receptors. Villaverde A, et al. **Gene** 1996 Nov 21; 180(1–2):101–6
Targeting of adenovirus penton base to new receptors through replacement of its RGD motif with other receptor-specific peptide motifs. Wickham TJ, et al. **Gene Ther** 1995 Dec;2(10):750–6
A one-hybrid system for detecting RNA-protein interactions. Wilhelm JE, et al. **Genes Cells** 1996 Mar; 1(3):317–23
Cleavage site mapping and substrate-specificity of Leishmaniavirus 2-1 capsid endoribonuclease activity. MacBeth KJ, et al. **J Biochem (Tokyo)** 1997 Jul; 122(1):193–200
Characterization of the nucleoside triphosphate phosphohydrolase and helicase activities of the reovirus lambda1 protein. Bisaillon M, et al. **J Biol Chem** 1997 Jul 18;272(29):18298–303
No tRNA3Lys unwinding in a complex with HIV NCp7. Gregoire CJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25143–8
The RNA-binding site of bacteriophage Qbeta coat protein. Lim F, et al. **J Biol Chem** 1996 Dec 13;271(50):31839–45
Dimerization and activation of the herpes simplex virus type 1 protease. Schmidt U, et al. **J Biol Chem** 1997 Mar 21; 272(12):7732–5
Microtubule-mediated transport of incoming herpes simplex virus 1 capsids to the nucleus. Sodeik B, et al. **J Cell Biol** 1997 Mar 10;136(5):1007–21
Deletion mapping of functional domains in the rotavirus capsid protein VP6. Affranchino JL, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1949–55
Mixed-subunit capsids can be assembled in vitro with coat protein subunits from two cucumoviruses. Chen B, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):971–3
Characterization of epitopes on zucchini yellow mosaic potyvirus coat protein permits studies on the interactions between strains. Desbiez C, et al. **J Gen Virol** 1997 Aug; 78 (Pt 8):2073–6
Maize streak virus coat protein binds single- and double-stranded DNA in vitro. Liu H, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1265–70
Multiple interactions control the intracellular localization of the herpes simplex virus type 1 capsid proteins. Rixon FJ, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2251–60
Processing and intracellular localization of the herpes simplex virus type 1 proteinase. Stevenson AJ, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):671–5
Obstruction of HIV-1 particle release by interferon-alpha occurs before viral protease processing and is independent of envelope glycoprotein. Babé LM, et al. **J Interferon Cytokine Res** 1997 May;17(5):287–93
Zinc ejection as a new rationale for the use of cystamine and related disulfide-containing antiviral agents in the treatment of AIDS. McDonnell NB, et al. **J Med Chem** 1997 Jun 20;40(13):1969–76
Molecular recognition in the HIV-1 capsid/cyclophilin A complex. Yoo S, et al. **J Mol Biol** 1997 Jun 27;269(5):780–95
Cyclophilin A-induced alterations of human immunodeficiency virus type 1 CA protein in vitro. Agresta BE, et al. **J Virol** 1997 Sep;71(9):6921–7
Mutations in reovirus outer-capsid protein sigma3 selected during persistent infections of L cells confer resistance to protease inhibitor E64. Baer GS, et al. **J Virol** 1997 Jul; 71(7):4921–8
Virus-specific interaction between the human cytomegalovirus major capsid protein and the C terminus of the assembly protein precursor. Beaudet-Miller M, et al. **J Virol** 1996 Nov;70(11):8081–8
Mutations in the N-terminal domain of human immunodeficiency virus type 1 nucleocapsid protein affect virion core structure and proviral DNA synthesis. Berthoux L, et al. **J Virol** 1997 Sep;71(9):6973–81
The product of the UL12.5 gene of herpes simplex virus type 1 is a capsid-associated nuclease. Bronstein JC, et al. **J Virol** 1997 Apr;71(4):3039–47
Involvement of the endoplasmic reticulum in the assembly and envelopment of African swine fever virus. Cobbold C, et al. **J Virol** 1996 Dec;70(12):8382–90
Two proline residues are essential in the calcium-binding activity of rotavirus VP7 outer capsid protein. Gajardo R, et al. **J Virol** 1997 Mar;71(3):2211–6
Cytomegalovirus "missing" capsid protein identified as heat-aggregable product of human cytomegalovirus UL46. Gibson W, et al. **J Virol** 1996 Nov;70(11):7454–61
Domains required for assembly of adenovirus type 2 fiber trimers. Hong JS, et al. **J Virol** 1996 Oct;70(10):7071–8
In vitro genetic selection analysis of alfalfa mosaic virus coat protein binding to 3'-terminal AUGC repeats in the viral RNAs. Houser-Scott F, et al. **J Virol** 1997 Mar; 71(3):2310–9
Functional and structural analysis of the sialic acid-binding domain of rotaviruses. Iša P, et al. **J Virol** 1997 Sep; 71(9):6749–56
Characterization of synthetic foot-and-mouth disease virus provirions separates acid-mediated disassembly from infectivity. Knipe T, et al. **J Virol** 1997 Apr;71(4):2851–6
Human immunodeficiency virus Type 1 nucleocapsid protein (NCp7) directs specific initiation of minus-strand DNA synthesis primed by human tRNA(Lys3) in vitro: studies of viral RNA molecules mutated in regions that flank the primer binding site. Li X, et al. **J Virol** 1996 Aug; 70(8):4996–5004
A role for two hairpin structures as a core RNA encapsidation signal in murine leukemia virus virions. Mougel M, et al. **J Virol** 1997 Oct;71(10):8061–5
Self-association of herpes simplex virus type 1 ICP35 is via coiled-coil interactions and promotes stable interaction with the major capsid protein. Pelletier A, et al. **J Virol** 1997 Jul;71(7):5197–208
Inactivation of murine leukemia virus by compounds that react with the zinc finger in the viral nucleocapsid protein. Rein A, et al. **J Virol** 1996 Aug;70(8):4966–72
A hypervariable region in VP1 of chicken infectious anemia virus mediates rate of spread and cell tropism in tissue culture. Renshaw RW, et al. **J Virol** 1996 Dec; 70(12):8872–8
The concentration of Ca2+ that solubilizes outer capsid proteins from rotavirus particles is dependent on the strain. Ruiz MC, et al. **J Virol** 1996 Aug;70(8):4877–83
Human immunodeficiency virus type 1 capsid formation in reticulocyte lysates. Spearman P, et al. **J Virol** 1996 Nov; 70(11):8187–94
Bluetongue virus VP6 protein binds ATP and exhibits an RNA-dependent ATPase function and a helicase activity that catalyze the unwinding of double-stranded RNA substrates. Stäuber N, et al. **J Virol** 1997 Oct;71(10):7220–6
Viral determinants of rotavirus pathogenicity in pigs: production of reassortants by asynchronous coinfection. Tauscher GI, et al. **J Virol** 1997 Jan;71(1):853–7
The loss of outer capsid protein P2 results in nontransmissibility by the insect vector of rice dwarf phytoreovirus. Tomaru M, et al. **J Virol** 1997 Oct; 71(10):8019–23
Attachment and entry of recombinant Norwalk virus capsids to cultured human and animal cell lines. White LJ, et al. **J Virol** 1996 Oct;70(10):6589–97
Human cytomegalovirus capsid assembly protein precursor (pUL80.5) interacts with itself and with the major capsid protein (pUL86) through two different domains. Wood LJ, et al. **J Virol** 1997 Jan;71(1):179–90
Human immunodeficiency virus type 1 nucleocapsid protein reduces reverse transcriptase pausing at a secondary structure near the murine leukemia virus polypurine tract. Wu W, et al. **J Virol** 1996 Oct;70(10):7132–42
A hydrophobic heptad repeat of the core protein of woodchuck hepatitis virus is required for capsid assembly. Yu M, et al. **J Virol** 1996 Oct;70(10):7085–91
Role of the coat protein-RNA interaction in the life cycle of bacteriophage MS2. Peabody DS. **Mol Gen Genet** 1997 Apr 28;254(4):358–64
MS2 coat protein mutants which bind Qbeta RNA. Spingola M, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2808–15
Mutations in HIV reverse transcriptase which alter RNase H activity and decrease strand transfer efficiency are suppressed by HIV nucleocapsid protein. Cameron CE, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6700–5
Boundary of pRNA functional domains and minimum pRNA sequence requirement for specific connector binding and DNA packaging of phage phi29. Garver K, et al. **RNA** 1997 Sep;3(9):1068–79
Aromatic interactions define the binding of the alphavirus spike to its nucleocapsid. Skoging U, et al. **Structure** 1996 May 15;4(5):519–29
A specific RNA structural motif mediates high affinity binding by the HIV-1 nucleocapsid protein (NCp7). Allen P, et al. **Virology** 1996 Nov 15;225(2):306–15
Experimental confirmation of a hepatitis B virus (HBV) epsilon-like bulge-and-loop structure in avian HBV RNA encapsidation signals. Beck J, et al. **Virology** 1997 Jan 20; 227(2):500–4
The N-terminal part of bacteriophage P2 capsid protein is essential for postassembly maturation of P2 and P4 capsids. Bjerve K, et al. **Virology** 1996 Oct 15;224(2):568–72
A specific interaction between coat protein and helper component correlates with aphid transmission of a potyvirus. Blanc S, et al. **Virology** 1997 Apr 28;231(1):141–7
Expression, assembly, and proteolytic processing of Helminthosporium victoriae 190S totivirus capsid protein in insect cells. Huang S, et al. **Virology** 1997 Jul 21; 234(1):130–7
Methyltransferase activity of the insect orbivirus JKT-7400: photoaffinity labeling of a minor virion protein, VP4, with S-adenosylmethionine. Liao HJ, et al. **Virology** 1997 Sep 1;235(2):235–40
Carboxylate interactions involved in the disassembly of tobacco mosaic tobamovirus. Lu B, et al. **Virology** 1996 Nov 1;225(1):11–20
A conserved internal hydrophobic domain mediates the stable membrane integration of the dengue virus capsid protein. Markoff L, et al. **Virology** 1997 Jun 23;233(1):105–17
NP:P and NP:V interactions of the paramyxovirus simian virus 5 examined using a novel protein:protein capture assay. Randall RE, et al. **Virology** 1996 Oct 1;224(1):121–9
Proteolytic processing of Chlorella virus CVK2 capsid proteins. Songsri P, et al. **Virology** 1997 Jan 6;227(1):252–4
Concurrent suppression of virus replication and rescue of movement-defective virus in transgenic plants expressing the coat protein of potato virus X. Spillane C, et al. **Virology** 1997 Sep 15;236(1):76–84
Characterization of a calcium binding domain in the VP1 protein of the avian polyomavirus, budgerigar fledgling disease virus. Rodgers RE, et al. **Virus Res** 1996 Oct; 44(2):123–35
Assembly of the reovirus outer capsid requires mu 1/sigma 3 interactions which are prevented by misfolded sigma 3 protein in temperature-sensitive mutant tsG453. Shing M, et al. **Virus Res** 1996 Dec;46(1–2):19–29

PHARMACOLOGY

HIV-1 nucleocapsid protein and replication protein A influence the strand displacement DNA synthesis of lentiviral reverse transcriptase [letter] Amacker M, et al. **AIDS** 1997 Mar 15;11(4):534–6
NCp7 activates HIV-1Lai RNA dimerization by converting a transient loop-loop complex into a stable dimer. Muriaux D, et al. **J Biol Chem** 1996 Dec 27;271(52):33686–92

PHYSIOLOGY

Semliki Forest virus capsid protein inhibits the initiation of translation by upregulating the double-stranded RNA-activated protein kinase (PKR). Favre D, et al. **Biosci Rep** 1996 Dec;16(6):485–511
Intracellular transport of retroviral capsid components. Kräusslich HG, et al. **Curr Top Microbiol Immunol** 1996; 214:25–63 (179 ref.)
A multistep, ATP-dependent pathway for assembly of human immunodeficiency virus capsids in a cell-free system. Lingappa JR, et al. **J Cell Biol** 1997 Feb 10;136(3):567–81
Lack of high affinity fiber receptor activity explains the resistance of ciliated airway epithelia to adenovirus infection. Zabner J, et al. **J Clin Invest** 1997 Sep 1; 100(5):1144–9
Self-assembly of the JC virus major capsid protein, VP1, expressed in insect cells. Chang D, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1435–9
Solubilized and cleaved VP7, the outer glycoprotein of rotavirus, induces permeabilization of cell membrane vesicles. Charpilienne A, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1367–71

CAPSID

The 25 amino acid residues at the carboxy terminus of the herpes simplex virus type 1 UL26.5 protein are required for the formation of the capsid shell around the scaffold. Kennard J, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1611–21

Efficient herpes simplex virus type 1 (HSV-1) capsid formation directed by the varicella-zoster virus scaffolding protein requires the carboxy-terminal sequences from the HSV-1 homologue. Preston VG, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1633–46

Evidence for heterologous encapsidation of potato spindle tuber viroid in particles of potato leafroll virus. Querci M, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1207–11

Tropic determinant for canine parvovirus and feline panleukopenia virus functions through the capsid protein VP2. Spitzer AL, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):925–8

Assembly of adeno-associated virus type 2 capsids in vitro. Steinbach S, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1453–62

Adenovirus-receptor interaction with human lymphocytes. Mentel R, et al. **J Med Virol** 1997 Mar;51(3):252–7

Possible roles of HIV-1 nucleocapsid protein in the specificity of proviral DNA synthesis and in its variability. Lapadat-Tapolsky M, et al. **J Mol Biol** 1997 May 2; 268(2):250–60

Human immunodeficiency virus type 1 nucleocapsid protein specifically stimulates Mg2+-dependent DNA integration in vitro. Carteau S, et al. **J Virol** 1997 Aug;71(8):6225–9

Virus-like particle-induced fusion from without in tissue culture cells: role of outer-layer proteins VP4 and VP7. Gilbert JM, et al. **J Virol** 1997 Jun;71(6):4555–63

Polyomavirus major capsid protein VP1 is capable of packaging cellular DNA when expressed in the baculovirus system. Gillock ET, et al. **J Virol** 1997 Apr;71(4):2857–65

Effect of mutations in the nucleocapsid protein (NCp7) upon Pr160(gag-pol) and tRNA(Lys) incorporation into human immunodeficiency virus type 1. Huang Y, et al. **J Virol** 1997 Jun;71(6):4378–84

DNA encapsidation by viruslike particles assembled in insect cells from the major capsid protein VP1 of B-lymphotropic papovavirus. Pawlita M, et al. **J Virol** 1996 Nov; 70(11):7517–26

The N-terminal region of the luteovirus readthrough domain determines virus binding to Buchnera GroEL and is essential for virus persistence in the aphid. van den Heuvel JF, et al. **J Virol** 1997 Oct;71(10):7258–65

Rotavirus contains integrin ligand sequences and a disintegrin-like domain that are implicated in virus entry into cells. Coulson BS, et al.
Proc Natl Acad Sci U S A 1997 May 13;94(10):5389–94

Propagation of an attenuated virus by design: engineering a novel receptor for a noninfectious foot-and-mouth disease virus. Rieder E, et al.
Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10428–33

Identification of a protein binding site on the surface of the alphavirus nucleocapsid and its implication in virus assembly. Lee S, et al. **Structure** 1996 May 15;4(5):531–41

Isolation of a gp20-complex and its role in in vitro assembly of both prohead and core of bacteriophage T4. Kato H, et al. **Virology** 1997 Jan 20;227(2):400–8

The herpes simplex virus type 1 UL6 protein is essential for cleavage and packaging but not for genomic inversion. Lamberti C, et al. **Virology** 1996 Dec 15;226(2):403–7

In vivo and in vitro evidence for an anti-Rho activity induced by the phage P4 polarity suppressor protein Psu. Linderoth NA, et al. **Virology** 1997 Jan 6;227(1):131–41

The role of AV2 ("precoat") and coat protein in viral replication and movement in tomato leaf curl geminivirus. Padidam M, et al. **Virology** 1996 Oct 15;224(2):390–404

Carboxyl terminus of bovine papillomavirus type-1 L1 protein is not required for capsid formation. Paintsil J, et al. **Virology** ;996 Sep 1;223(1):238–44

Molecular studies on bromovirus capsid protein. II. Functional analysis of the amino-terminal arginine-rich motif and its role in encapsidation, movement, and pathology. Rao AL, et al. **Virology** 1996 Dec 15; 226(2):294–305

Molecular studies on bromovirus capsid protein. III. Analysis of cell-to-cell movement competence of coat protein defective variants of cowpea chlorotic mottle virus. Rao AL. **Virology** 1997 Jun 9;232(2):385–95

A cucumber necrosis virus variant deficient in fungal transmissibility contains an altered coat protein shell domain. Robbins MA, et al. **Virology** 1997 Jul 21; 234(1):138–46

Preferential translation of reovirus mRNA by a sigma3-dependent mechanism. Schmechel S, et al.
Virology 1997 May 26;232(1):62–73

Molecular studies on bromovirus capsid protein. I. Characterization of cell-to-cell movement-defective RNA3 variants of brome mosaic virus. Schmitz I, et al. **Virology** 1996 Dec 15;226(2):281–93

Capsid proteins of cowpea mosaic virus transiently expressed in protoplasts form virus-like particles. Wellink J, et al. **Virology** 1996 Oct 1;224(1):352–5

P2 protein encoded by genome segment S2 of rice dwarf phytoreovirus is essential for virus infection. Yan J, et al. **Virology** 1996 Oct 15;224(2):539–41

Cell attachment and mouse virulence of echovirus 9 correlate with an RGD motif in the capsid protein VP1. Zimmermann H, et al. **Virology** 1997 Jun 23;233(1):149–56

ULTRASTRUCTURE

Rotavirus structure: interactions between the structural proteins. Shaw AL, et al. **Arch Virol Suppl** 1996;12:21–7

Crystal structure of human cyclophilin A bound to the amino-terminal domain of HIV-1 capsid. Gamble TR, et al. **Cell** 1996 Dec 27;87(7):1285–94

The bacteriophage phi29 head-tail connector imaged at high resolution with the atomic force microscope in buffer solution. Müller DJ, et al. **EMBO J** 1997 May 15; 16(10):2547–53

The making and breaking of symmetry in virus capsid assembly: glimpses of capsid biology from cryoelectron microscopy. Steven AC, et al. **FASEB J** 1997 Aug; 11(10):733–42 (75 ref.)

Quasi-equivalent viruses: a paradigm for protein assemblies. Johnson JE, et al. **J Mol Biol** 1997 Jun 27;269(5):665–75 (35 ref.)

Assembly of the herpes simplex virus capsid: characterization of intermediates observed during cell-free capsid formation. Newcomb WW, et al. **J Mol Biol** 1996 Nov 1;263(3):432–46

The herpes simplex virus procapsid: structure, conformational changes upon maturation, and roles of the triplex proteins VP19c and VP23 in assembly. Trus BL, et al. **J Mol Biol** 1996 Nov 1;263(3):447–62

Structure of ribgrass mosaic virus at 2.9 A resolution: evolution and taxonomy of tobamoviruses. Wang H, et al. **J Mol Biol** 1997 Jun 27;269(5):769–79

The interaction of DNA with bacteriophage phi 29 connector: a study by AFM and TEM. Valle M, et al. **J Struct Biol** 1996 May-Jun;116(3):390–8

The structure of alfalfa mosaic virus capsid protein assembled as a T=1 icosahedral particle at 4.0-A resolution. Kumar A, et al. **J Virol** 1997 Oct;71(10):7911–6

Three-dimensional structural analysis of recombinant rotavirus-like particles with intact and amino-terminal-deleted VP2: implications for the architecture of the VP2 capsid layer. Lawton JA, et al. **J Virol** 1997 Oct;71(10):7353–60

Novel structural features of bovine papillomavirus capsid revealed by a three-dimensional reconstruction to 9 A resolution. Trus BL, et al. **Nat Struct Biol** 1997 May; 4(5):413–20

Visualization of a 4-helix bundle in the hepatitis B virus capsid by cryo-electron microscopy [see comments] Conway JF, et al. **Nature** 1997 Mar 6;386(6620):91–4. Comment in: Nature 1997 Mar 6;385(6620):26–7.

Cryo-electron microscopy studies of empty capsids of human parvovirus B19 complexed with its cellular receptor. Chipman PR, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7502–6

The refined structure of human rhinovirus 16 at 2.15 A resolution: implications for the viral life cycle. Hadfield AT, et al. **Structure** 1997 Mar 15;5(3):427–41

The structure of aquareovirus shows how the different geometries of the two layers of the capsid are reconciled to provide symmetrical interactions and stabilization. Shaw AL, et al. **Structure** 1996 Aug 15;4(8):957–67

The NS2 polypeptide of parvovirus MVM is required for capsid assembly in murine cells. Cotmore SF, et al.
Virology 1997 May 12;231(2):267–80

Scaffolding mutants identifying domains required for P22 procapsid assembly and maturation. Greene B, et al.
Virology 1996 Nov 1;225(1):82–96

Structure of Broadhaven virus by cryoelectron microscopy: correlation of structural and antigenic properties of Broadhaven virus and bluetongue virus outer capsid proteins. Schoehn G, et al. **Virology** 1997 Sep 1; 235(2):191–200

CAPSID PROTEINS see **CAPSID**

CAPSULES

Effect of the alginate composition on the biocompatibility of alginate-polylysine microcapsules. De Vos P, et al.
Biomaterials 1997 Feb;18(3):273–8

Quantitative method for the evaluation of biomicrocapsule resistance to mechanical stress. Leblond FA, et al.
Biomaterials 1996 Nov;17(21):2097–102

Application of a novel B cell line MIN6 to a mesh-reinforced polyvinyl alcohol hydrogel tube and three-layer agarose microcapsules: an in vitro study. Hayashi H, et al.
Cell Transplant 1996 Sep-Oct;5(5 Suppl 1):S65–9

Immobilization of rat hepatocytes on multiporous microcarriers with larger pores and their metabolic activity. Kino Y, et al. **Cell Transplant** 1996 Sep-Oct;5(5 Suppl 1):S35–7

A newly developed three-layer agarose microcapsule for a promising biohybrid artificial pancreas: rat to mouse xenotransplantation. Tun T, et al. **Cell Transplant** 1996 Sep-Oct;5(5 Suppl 1):S59–63

Formation of positively charged microcapsules based on chitosan-lecithin interactions. Magdassi S, et al.
J Microencapsul 1997 Mar-Apr;14(2):189–95

Variation of droplet sizes during the formation of microcapsules from emulsions. Ovez B, et al.
J Microencapsul 1997 Jul-Aug;14(4):489–99

Investigations into the relationship between drug properties, filling, and the release of drugs from hard gelatin capsules using multivariate statistical analysis. Hogan J, et al.
Pharm Res 1996 Jun;13(6):944–9

Microencapsulation for cell implants into the central nervous system: the importance of alginate viscosity and related factors. Chen ZP, et al. **Stereotact Funct Neurosurg** 1996; 66(1-3):141–6

15-Deoxyspergualin attenuates pericapsular cellular infiltration and prolongs survival of alginate-poly-L-lysine-alginate microencapsulated islets. Hsu BR, et al. **Transplant Proc** 1997 Jun;29(4):2158–60

Microencapsulation of neonatal porcine islets: long-term reversal of diabetes in nude mice and in vitro protection from human complement mediated cytolysis. Korbutt GS, et al. **Transplant Proc** 1997 Jun;29(4):2128

Development of biocompatible barium alginate microcapsules. Petruzzo P, et al. **Transplant Proc** 1997 Jun; 29(4):2129–30

Microdialysis for in vivo evaluation of permeability of immunoisolation devices. Rafael E, et al.
Transplant Proc 1997 Jun;29(4):2134–5

Permeability characteristics of microencapsulated pancreatic islets. Woods EJ, et al. **Transplant Proc** 1997 Jun;29(4):2148

[Amitogenic alginate--the key to first clinical use of the microencapsulation technology] Hasse C, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:755–9 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Esophageal tattoo from ingested capsule [letter] Curtiss JR. **Gastrointest Endosc** 1997 Jan;45(1):111

An unusual case of steatorrhoea [letter] [see comments] Biswas K, et al. **Lancet** 1997 Apr 12;349(9058):1106. Comment in: Lancet 1997 Jun 21;349(9068):1839.

ANALYSIS

Analytical challenges in the development of modified-release oral solid dosage forms. A review. Bowker MJ. **Analyst** 1996 Oct;121(10):91R–100R (106 ref.)

Liquid chromatographic determination of thalidomide in tablets, capsules, and raw materials. Reepmeyer JC, et al.
J AOAC Int 1997 Jul-Aug;80(4):767–73

Determination of moisture in hard gelatin capsules using near-infrared spectroscopy: applications to at-line process control of pharmaceutics. Berntsson O, et al.
J Pharm Biomed Anal 1997 Apr;15(7):895–900

CHEMISTRY

Evaluation of microcapsule permeability via inverse size exclusion chromatography. Briššová M, et al.
Anal Biochem 1996 Nov 1;242(1):104–11

Preparation and evaluation of a time-controlled release capsule made of ethylcellulose for colon delivery of drugs [letter; comment] Jones SP. **J Drug Target** 1996;3(6):477–8 . Comment on: J Drug Target 1995;3(2):83–9.

Determination of the physical state of drug in microcapsule and microsphere formulations. Dash AK.
J Microencapsul 1997 Jan-Feb;14(1):101–12

Chitosan/calcium alginate microcapsules for intestinal delivery of nitrofurantoin. Hari PR, et al.
J Microencapsul 1996 May-Jun;13(3):319–29

Effect of formulation and processing factors on the characteristics of biodegradable microcapsules of zidovudine. Mandal TK, et al. **J Microencapsul** 1996 Sep-Oct;13(5):545–57

Preparation and characterization of a complex microencapsulated diet for striped bass Morone saxatilis larvae. Ozkizilcik S, et al. **J Microencapsul** 1996 May-Jun; 13(3):331–43

Solvent and plasticizer influences on ethylcellulose-microcapsules. Palomo ME, et al.
J Microencapsul 1996 May-Jun;13(3):307–18

Determination of extent of formaldehyde-induced crosslinking in hard gelatin capsules by near-infrared spectrophotometry. Gold TB, et al. **Pharm Res** 1997 Aug; 14(8):1046–50

ISOLATION & PURIFICATION

Preparation of biodegradable microcapsules containing zidovudine (AZT) using solvent evaporation technique. Mandal TK, et al. **J Microencapsul** 1996 May-Jun; 13(3):257–67

METABOLISM

A rapid qualitative method to assess in vitro immunobarrier competence of pancreatic islets containing alginate/polyaminoacidic microcapsules. Calafiore R, et al.
Acta Diabetol 1996 Jul;33(2):150–3

Simultaneous in vivo visualization and localization of solid oral dosage forms in the rat gastrointestinal tract by magnetic resonance imaging (MRI). Christmann V, et al.
Pharm Res 1997 Aug;14(8):1066–72

PHARMACOKINETICS

Effect of food intake on the delivery of fluorescein as a model drug in colon delivery capsule after oral administration to beagle dogs. Matsuda K, et al. **J Drug Target** 1996; 4(2):59–67

CAPSULITIS, ADHESIVE see **BURSITIS**

CAPTAN

ANALOGS & DERIVATIVES

Enhancing effects of captafol on the development of GST-P-positive liver cell foci in a medium-term bioassay, and protection by L-cysteine of the enhancement in rats. Kim HC, et al. **Cancer Lett** 1997 Jan 1;111(1-2):15-20

CAPTOPRIL

ADMINISTRATION & DOSAGE

A case of renin-producing juxtaglomerular tumor: effect of ACE inhibitor or angiotensin II receptor antagonist. Kashiwabara H, et al. **Blood Press** 1997 May;6(3):147-53

Noncontinuous use of angiotensin converting enzyme inhibitors in the treatment of experimental bone marrow transplant nephropathy. Moulder JE, et al. **Bone Marrow Transplant** 1997 Apr;19(7):729-35

An equivalence study of the safety and efficacy of a fixed-dose combination of perindopril with indapamide versus fixed-dose combinations of captopril with hydrochlorothiazide and enalapril with hydrochlorothiazide in the treatment of hypertension. Luccioni R, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1847-51

Dielectric and thermodynamic properties of biodegradable poly(D,L-lactide-co-glycolide) and the effect on the micro-encapsulation and release of captopril. Schartel B, et al. **J Microencapsul** 1997 Jul-Aug;14(4):475-88

Age-related decline in thirst and sodium appetite in rats related to kininase II inhibition. Rowland NE, et al. **Regul Pept** 1996 Oct 22;66(3):163-7

[The effects of cardioplegia and reperfusional blood containing captopril on myocardial ultrastructure alterations after cardiac arrest] Guo X, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):733-7 (Eng. Abstr.) **(Chi)**

[Adm stration of captopril (aceten++, ++ /okhardt"++) in hypertension and congestive heart failure] Balakhonova NP, et al. **Klin Med (Mosk)** 1997; 75(1):42-3 **(Rus)**

ADVERSE EFFECTS

Late-onset life-threatening angioedema and upper airway obstruction caused by angiotensin-converting enzyme inhibitor: report of a case. Weng PK, et al. **Ear Nose Throat J** 1997 Jun;76(6):404-7

[Pathohistologic and ultrastructural features of drug-induced membranous glomerulonephritis] Pospishil' IuA. **Arkh Patol** 1996 Sep-Oct;58(5):52-6 (Eng. Abstr.) **(Rus)**

[Angioedema and taking captopril (letter)] Råfola Crestani A, et al. **Aten Primaria** 1997 Mar 31;19(5):275-6 **(Spa)**

[Lichenioid reaction induced by captopril (letter)] Revenga Arranz F, et al. **Rev Clin Esp** 1996 Jun;196(6):412 **(Spa)**

ANALOGS & DERIVATIVES

Intestinal absorption of captopril and two thioester analogs in rats and dogs. Morrison RA, et al. **Biopharm Drug Dispos** 1997 Jan;18(1):25-39

A paradoxical increase in circulating ACE (angiotensin converting enzyme) activity after long-term administration of alacepril (ACE inhibitor). Nishida S, et al. **Horm Metab Res** 1997 Mar;29(3):153-4

Effect of alacepril on 24-hour blood pressure in elderly hypertensive patients. Kohara K, et al. **Int J Clin Pharmacol Ther** 1996 Sep;34(9):380-3

Hypoglycemia associated with the administration of angiotensin-converting enzyme inhibitor in a patient with diabetes mellitus [letter] Sakaguchi H, et al. **Intern Med** 1997 Jan;36(1):77

The effects of atenolol and zofenopril on plasma atrial natriuretic peptide are due to their interactions with target organ damage of essential hypertensive patients. Elijovich F, et al. **J Hum Hypertens** 1997 May;11(5):313-9

A comparison of the hypotensive and hypoglycaemic actions of an angiotensin converting enzyme inhibitor, an AT1a antagonist and troglitazone. Chen S, et al. **J Hypertens** 1996 Nov;14(11):1325-30

Free radical scavenging properties of alacepril metabolites and lisinopril. Noda Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):125-36

[ACE inhibitors with SH groups have no effect of ATP-dependent K channels--a dissertation] Köppel H, et al. **Acta Med Austriaca** 1996;23(3):109-12 (Eng. Abstr.) **(Ger)**

ANALYSIS

Determination of captopril and its disulphides in whole human blood and urine by high-performance liquid chromatography with ultraviolet detection and precolumn derivatization. Sypniewski S, et al. **J Chromatogr A** 1996 Apr 5;729(1-2):335-40

Chemiluminescence flow-injection analysis of captopril applying a sensitized rhodamine 6G method. Zhang ZD, et al. **J Pharm Biomed Anal** 1996 Jun;14(8-10):939-45

BLOOD

HPLC determination of captopril in human plasma and its pharmacokinetic study. Li K, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):237-9

Determination of captopril in plasma by high-performance liquid chromatography for pharmacokinetic studies. Arroyo C, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):339-44

Application of 2-halopyridinium salts as ultraviolet derivatization reagents and solid-phase extraction for determination of captopril in human plasma by high-performance liquid chromatography. Bald E, et al. **J Chromatogr B Biomed Appl** 1996 Jun 7;681(2):283-9

Bioanalysis of captopril: two sensitive high-performance liquid chromatographic methods with pre- or postcolumn fluorescent labeling. Kok RJ, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):181-9

Determination of captopril in human serum by high performance liquid chromatography using solid-phase extraction. Bahmaei M, et al. **J Pharm Biomed Anal** 1997 May;15(8):1181-6

Determination of captopril in human blood by an enzyme-linked immunosorbent assay. Jehanli AM, et al. **J Pharm Pharmacol** 1996 Sep;48(9):914-7

CHEMISTRY

Stability of baclofen, captopril, diltiazem hydrochloride, dipyridamole, and flecainide acetate in extemporaneously compounded oral liquids. Allen LV Jr, et al. **Am J Health Syst Pharm** 1996 Sep 15;53(18):2179-84

The antioxidant properties of captopril. Dobrucki R, et al. **Pharmazie** 1996 Dec;51(12):992

[Pharmaceutical technology of Tensiomin] Fekete P. **Acta Pharm Hung** 1997 Jul;67(4):113-21 (Eng. Abstr.) **(Hun)**

DIAGNOSTIC USE

Preliminary assessment of captopril sonography in screening for renal artery stenosis. Gottlieb RH, et al. **Acad Radiol** 1996 Jan;3(1):57-62

The captopril test in children with renovascular and renal hypertension. Fossali E, et al. **Acta Paediatr** 1996 Sep; 85(9):1129-31

Diagnosis of renovascular hypertension by echo-Doppler velocimetry. Fuse S, et al. **Acta Paediatr Jpn** 1996 Aug; 38(4):370-3

What role, if any, does nuclear medicine play in the evaluation of nonhypertensive renal artery stenosis? Lamkhi LM, et al. **AJR Am J Roentgenol** 1997 Jun; 168(6):1615-6

Captopril renal scintigraphy in renovascular hypertension. Khairullah QT, et al. **Am Fam Physician** 1997 May 1; 55(6):2240-4 (19 ref.)

Variable kidney position mimicking renal artery branch stenosis in a Tc-99m-DTPA captopril scintigraphy. Demirçali AE, et al. **Ann Nucl Med** 1996 May;10(2):237-9

Differences between 99mTc-DTPA and 99mTc-MAG3 captopril renographies in renovascular hypertension. Itoh K, et al. **Ann Nucl Med** 1996 May;10(2):251-5

The place of renal scintigraphy in the diagnosis of renal artery stenosis. Fifteen years of clinical experience. van Jaarsveld BC, et al. **Arch Intern Med** 1997 Jun 9;157(11):1226-34

Diagnosis of renal artery branch stenosis using captopril intervention scintirenography. Prakash R, et al. **Australas Radiol** 1996 Aug;40(3):213-7

Renovascular hypertension due to Takayasu's arteritis demonstrated by Tc-99m ethylenedicysteine captopril scintigraphy. Uğur O, et al. **Clin Nucl Med** 1996 Sep; 21(9):714-6

Steady-state captopril renography: continuous monitoring of the captopril-induced increase in 99mTc-MAG3 mean parenchymal transit time in renovascular hypertension. Esper IE, et al. **Eur J Nucl Med** 1997 Jul;24(7):739-44

Bartter's syndrome: renal scintigraphic appearance after captopril administration. Dondi M, et al. **J Nucl Med** 1996 Oct;37(10):1688-90

Interpretation of captopril transplant renography using a feed forward neural network. Hamilton D, et al. **J Nucl Med** 1996 Oct;37(10):1649-52

Captopril renography in the detection of RVH [letter; comment] Muller-Suur R. **J Nucl Med** 1997 May; 38(5):827-8. Comment on: J Nucl Med 1995 Dec;36(12):2192-5.

Baseline and postcaptopril renal blood flow measurements in hypertensives suspected of renal artery stenosis. Schreij G, et al. **J Nucl Med** 1996 Oct;37(10):1652-5

Diagnosis of renovascular hypertension: are i.v. digital subtraction angiography and the excretory urograms really outdated compared to captopril renography? [letter] Fournier A, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):1186-7

Effects of corticotropin-releasing hormone on ACTH, cortisol and 13, 14-dihydro-15-keto prostaglandin E2 in patients with diabetes insipidus before and after captopril treatment. Zacharieva S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jun; 54(6):433-7

Distal vessel atherosclerosis as a cause for false-positive renal scintigraphy. Cristol L, et al. **Ren Fail** 1996 Nov; 18(6):923-30

The use of captopril testing in the selection of patients for renal artery repair. Duschek S, et al. **Semin Vasc Surg** 1996 Sep;9(3):182-7 (26 ref.)

[Captopril test] Tomimoto S, et al. **Nippon Rinsho** 1997 Apr; 55 Suppl 2:329-32 (9 ref.) **(Jpn)**

ECONOMICS

An economic analysis of captopril in the treatment of diabetic nephropathy. The Collaborative Study Group. Rodby RA, et al. **Diabetes Care** 1996 Oct;19(10):1051-61

Economic aspects of treatment with captopril for patients with asymptomatic left ventricular dysfunction in The Netherlands [see comments] Michel BC, et al. **Eur Heart J** 1996 May;17(5):731-40. Comment in: Eur Heart J 1996 May;17(5):648-50. Comment in: Eur Heart J 1997 Jan;18(1):165.

Economic aspects of captopril treatment [letter; comment] Tsevat J, et al. **Eur Heart J** 1997 Jan;18(1):165. Comment on: Eur Heart J 1996 May;17(5):731-40.

[Economical treatment of heart failure (editorial; comment)] Sonntag F. **Med Klin** 1996 Feb 15;91(2):111. Comment on: Med Klin 1996 Feb 15;91(2):112-8. **(Ger)**

[Cost effectiveness of captopril after myocardial infarct; comment] Szucs T, et al. **Med Klin** 1996 Feb 15;91(2):112-8 (Eng. Abstr.). Comment on: Med Klin 1996 Feb 15;91(2):111. **(Ger)**

METABOLISM

Kinetic analysis of the covalent binding of captopril to human serum albumin. Narazaki R, et al. **J Pharm Sci** 1997 Feb; 86(2):215-9

Captopril methylation in human liver and kidney: interindividual variability. Ferroni MA, et al. **Xenobiotica** 1996 Aug;26(8):877-82

PHARMACOKINETICS

Intestinal absorption of captopril and two thioester analogs in rats and dogs. Morrison RA, et al. **Biopharm Drug Dispos** 1997 Jan;18(1):25-39

Pharmacokinetic-pharmacodynamic modelling for captopril in healthy anaesthetized piglets. Pereira CM, et al. **Biopharm Drug Dispos** 1996 Jul;17(5):365-72

Dielectric and thermodynamic properties of biodegradable poly(D,L-lactide-co-glycolide) and the effect on the micro-encapsulation and release of captopril. Schartel B, et al. **J Microencapsul** 1997 Jul-Aug;14(4):475-88

[Bioanalytic examination and pharmacokinetics of captopril. Bioequivalence studies of different captopril-containing Tensiomin preparations] Klebovich I, et al. **Acta Pharm Hung** 1997 Jul;67(4):123-35 (Eng. Abstr.) **(Hun)**

PHARMACOLOGY

Influence of captopril on some haemostatic parameters in rats with ongoing process of venous thrombosis. Pawlak R, et al. **Acta Physiol Hung** 1996;84(3):327-8

Converting enzyme inhibition and renal function of conscious uninephrectomized rats [correction of enzyme] MacLaughlin M, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(3):203-8

Angiotensin-converting enzyme inhibitors in preventing remodeling and development of heart failure after acute myocardial infarction: results of the German multicenter study of the effects of captopril on cardiopulmonary exercise parameters (ECCE). Kleber FX, et al. **Am J Cardiol** 1997 Aug 4;80(3A):162A-167A

Modulation of G-protein expression by the angiotensin converting enzyme inhibitor captopril in hearts from spontaneously hypertensive rats. Relationship with adenylyl cyclase. Pandey SK, et al. **Am J Hypertens** 1996 Aug;9(8):833-7

Enalapril and captopril enhance antioxidant defenses in mouse tissues. de Cavanagh EM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R514-8

Captopril prevents vascular and fibrotic changes but not cardiac hypertrophy in aortic-banded rats. Regan CP, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H905-13

Captopril suppresses interstitial fibrin deposition in coxsackievirus B3 myocarditis. Takada H, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H211-9

Long-term captopril treatment restores natriuresis after carotid baroreceptor activation in the SHR. Valentin JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R70-9

Impairment of endothelium-dependent relaxation of rabbit aortas by cigarette smoke extract--role of free radicals and attenuation by captopril. Ota Y, et al. **Atherosclerosis** 1997 Jun;131(2):195-202

Captopril reverses high glucose-induced effects on LLC-PK1 cells partly by enhancing facilitative glucose transporter messenger RNA expressions. Yang ML, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):511-9

Captopril does not blunt the sympathoadrenal response to cigarette smoking in normotensive humans. Ottesen MM, et al. **Blood Press** 1997 Jan;6(1):29-34

Gut mucosal perfusion in infants undergoing cardiopulmonary bypass: effect of preoperative captopril. Booker PD, et al. **Br J Anaesth** 1997 Jul;79(1):14-8

Captopril has no significant scavenging antioxidant activity in human plasma in vitro or in vivo [letter] Benzie IF, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):209-10

Effect of captopril on prostacyclin and nitric oxide formation in healthy human subjects: interaction with low dose acetylsalicylic acid. Böger RH, et al.

Br J Clin Pharmacol 1996 Dec;42(6):721–7
Captopril has no significant scavenging antioxidant activity in human plasma in vitro or in vivo. Lapenna D, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):451–6
Comparison of angiotensin II type 1 receptor blockade and angiotensin–converting enzyme inhibition in pregnant sheep during late gestation. Forhead AJ, et al. **Br J Pharmacol** 1996 Sep;119(2):393–401
Effects of captopril, losartan, and nifedipine on cell hypertrophy of cultured vascular smooth muscle from hypertensive Ren–2 transgenic rats. Peiró C, et al. **Br J Pharmacol** 1997 Aug;121(7):1438–44
Distribution of Fos-immunoreactivity in rat brain following a dipsogenic dose of captopril and effects of angiotensin receptor blockade. McKinley MJ, et al. **Brain Res** 1997 Jan 30;747(1):43–51
Captopril modulates hormone receptor concentration and inhibits proliferation of human mammary ductal carcinoma cells in culture. Small W Jr, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):217–24
Anti–free radical mechanisms in captopril protection against reperfusion injury in isolated rat hearts. Anderson B, et al. **Can J Cardiol** 1996 Oct;12(10):1099–104
Effects of the angiotensin converting enzyme (ACE) inhibitor, captopril, on the cardiovascular, endocrine, and renal responses to furosemide in conscious lambs. de Wildt SN, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):263–70
Cocaine–stimulated endothelin–1 release is decreased by angiotensin–converting enzyme inhibitors in cultured endothelial cells. Hendricks-Munoz KD, et al. **Cardiovasc Res** 1996 Jan;31(1):117–23
Effects of renin inhibition compared to angiotensin converting enzyme inhibition in conscious dogs with pacing–induced heart failure. Shannon RP, et al. **Cardiovasc Res** 1997 Jun;34(3):464–72
Structural alterations of resistance vessels of spontaneously hypertensive rats and protective effects of captopril. Chen Y, et al. **Chin Med J (Engl)** 1996 Nov;109(11):873–6
Differential effects of captopril and nitrates on muscle sympathetic nerve activity in volunteers. Noll G, et al. **Circulation** 1997 May 6;95(9):2286–92
Effects of early captopril treatment and its removal on plasma angiotensin converting enzyme (ACE) activity and arginine vasopressin in hypertensive rats (SHR) and normotensive rats (WKY). Zhang L, et al. **Clin Exp Hypertens** 1996 Feb; 18(2):201–26 (51 ref.)
Renal functional reserve in pigs: renal haemodynamics, renal tubular function and salt and water homeostatic hormones during amino acid and dopamine stimulation. Poulsen EU, et al. **Clin Physiol** 1997 Jan;17(1):57–69
Captopril–induced changes in effective renal plasma flow in hypertensive renal transplant recipients. Sud K, et al. **Clin Transplant** 1996 Aug;10(4):337–40
Effects of ACE inhibition on spontaneous and insulin–stimulated endothelin–1 secretion: in vitro and in vivo studies. Desideri G, et al. **Diabetes** 1997 Jan;46(1):81–6
Effects of the antihypertensive drug captopril on human salivary secretion rate and composition. Nederfors T, et al. **Eur J Oral Sci** 1995 Dec;103(6):351–4
Nifedipine, losartan and captopril effects on hyperplasia of vascular smooth muscle from Ren–2 transgenic rats. Peiró C, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):257–65
Cellular protective action of angiotensin converting enzyme inhibitors. Tepel M, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:61–3
Antioxidant and prooxidant properties of captopril and enalapril. Bartosz M, et al. **Free Radic Biol Med** 1997; 23(5):729–35
The copper complex of captopril is not a superoxide dismutase mimic. Artefacts in DMPO spin trapping. Bartosz M, et al. **Free Radic Res** 1996 May;24(5):391–6
Captopril increases renin release stimulated by furosemide and hypotension in isolated perfused guinea pig kidneys. Mokuda O, et al. **Horm Metab Res** 1996 May;28(5):227–9
Angiotensin converting enzyme inhibitors suppress production of tumor necrosis factor–alpha in vitro and in vivo. Fukuzawa M, et al. **Immunopharmacology** 1997 Apr; 36(1):49–55
Lack of contribution of circulatory kinin elevated by captopril to induce hypotension in normotensive and hypertensive rats. Majima M, et al. **Immunopharmacology** 1996 Jun;33(1–3):291–3
Effect of cadmium and captopril on serum angiotensin converting enzyme activity in rats. Puri VN. **Indian Heart J** 1997 May–Jun;49(3):297–9
Role of tachykinins in enhancement of bradykinin–induced bronchoconstriction by captopril. Arakawa M, et al. **Inflamm Res** 1996 Feb;45(2):75–82
Effects of afterload–reducing drugs on pathogenesis of antioxidant changes and congestive heart failure in rats. Khaper N, et al. **J Am Coll Cardiol** 1997 Mar 15; 29(4):856–61
Captopril potentiates the myocardial infarct size–limiting effect of ischemic preconditioning through bradykinin B2 receptor activation. Miki T, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1616–22
Angiotensin–converting enzyme inhibitors potentiate preconditioning through bradykinin B2 receptor activation in human heart. Morris SD, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1599–606
Captopril reverses high–glucose–induced growth effects on LLC–PK1 cells partly by decreasing transforming growth factor–beta receptor protein expressions. Guh JY, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1207–15
Effects of renal denervation on cardiovascular and renal responses to ACE inhibition in conscious lambs. Smith FG, et al. **J Appl Physiol** 1997 Aug;83(2):414–9
The in vitro effects of captopril on the levels of lipid peroxidation and glutathione of erythrocytes in type II diabetes. Altuntaş Y, et al. **J Basic Clin Physiol Pharmacol** 1995;6(3–4):281–8
Early pharmacologic intervention may prevent the deterioration in endothelial function after experimental myocardial infarction in rats: effects of ibopamine and captopril. Buikema H, et al. **J Card Fail** 1997 Jun; 3(2):125–32
Early captopril treatment reduces plasma endothelin concentrations in the acute and subacute phases of myocardial infarction: a pilot study. Di Pasquale P, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):202–8
Low–dose but not high–dose captopril increases parasympathetic activity in patients with heart failure. Kamen PW, et al. **J Cardiovasc Pharmacol** 1997 Jul; 30(1):7–11
Captopril and norepinephrine–induced hypertrophy and haemodynamics in rats. Laycock SK, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):667–72
Effect of captopril and losartan on blood pressure and accumulation of LDL and fibrinogen by aortic wall and other tissues in normotensive and hypertensive rats. Medina R, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):125–9
Renal and depressor activity of C–natriuretic peptide in conscious monkeys: effects of enzyme inhibitors. Seymour AA, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):397–401
Effects of captopril and propranolol on cognitive function and cerebral blood flow in aged hypertensive rats. Skinner MH, et al. **J Gerontol A Biol Sci Med Sci** 1996 Nov; 51(6):B454–60
The correction of autonomic dysfunction in cirrhosis by captopril. Dillon JF, et al. **J Hepatol** 1997 Feb;26(2):331–5
Effect of captopril on intracellular free calcium ([Ca2+]i) of thymocytes in spontaneously hypertensive rats. Xie L, et al. **J Hum Hypertens** 1996 Jun;10(6):425–7
Captopril and stress–induced hypertension in the borderline hypertensive rat. Coste SC, et al. **J Hypertens** 1995 Dec; 13(12 Pt 1):1391–98
Blockade of the renin–angiotensin system in heart failure in conscious dogs. Murakami M, et al. **J Hypertens** 1995 Dec; 13(12 Pt 1):1405–12
Almost complete protection from [Met5]–enkephalin–Arg6–Gly7–Leu8 (Met–enk–RGL) hydrolysis in membrane preparations by the combination of amastatin, captopril and phosphoramidon. Hiranuma T, et al. **J Pharmacol Exp Ther** 1997 May;281(2):769–74
Blood pressure and age–dependent changes of endothelium–dependent tension oscillations in different strains of spontaneously hypertensive rats. Shimamura K, et al. **J Smooth Muscle Res** 1996 Aug;32(4):145–54
Fluctuation of zinc, copper, magnesium and calcium concentrations in guinea pig tissues after administration of captopril (SQ 14225). Kotsaki–Kovatsi VP, et al. **J Trace Elem Med Biol** 1997 Apr;11(1):32–6
Protective effect of the angiotensin–converting enzyme inhibitor captopril on postischemic myocardial damage in perfused rat heart. Takeda H, et al. **Jpn Circ J** 1997 Aug; 61(8):687–94
Captopril preserves function and ultrastructure in experimental radiation nephropathy. Cohen EP, et al. **Lab Invest** 1996 Sep;75(3):349–60
Effect of angiotensin–converting enzyme inhibition on Na+/H(+)–exchange and Ca(2+)–efflux in human erythrocytes. Lijnen P, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar;19(2):125–8
Substrate dependence of angiotensin I–converting enzyme inhibition: captopril displays a partial selectivity for inhibition of N–acetyl–seryl–aspartyl–lysyl–proline hydrolysis compared with that of angiotensin I. Michaud A, et al. **Mol Pharmacol** 1997 Jun;51(6):1070–6
Effect of alpha–adrenergic blockers, ACE inhibitors, and calcium channel antagonists on renal function in hypertensive non–insulin–dependent diabetic patients. Giordano M, et al. **Nephron** 1996;72(3):447–53
Renal hemodynamic changes induced by captopril and angiotensin–converting enzyme gene polymorphism. Mizuiri S, et al. **Nephron** 1997;75(3):310–4
Effects of captopril and Icatibant on bradykinin (BK) and des [Arg9] BK in carrageenan–induced edema. Decarie A, et al. **Peptides** 1996;17(6):1009–15
Effects of captopril on responses to bradykinin in the hindquarters vascular bed of the rat. Nossaman BD, et al. **Peptides** 1997;18(4):491–4
Captopril alters schedule induced polydipsia, urination, and defecation in rats. Bowers RL, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):353–9
Effects of myocardial infarction and captopril therapy on anxiety–related behaviors in the rat. Prickaerts J, et al. **Physiol Behav** 1996 Jul;60(1):43–50
Antagonism of the renin–angiotensin system and water deprivation–induced NaCl intake in rats. Sato MA, et al. **Physiol Behav** 1996 Oct;60(4):1099–104
Captopril prevents NO–deficient hypertension and left ventricular hypertrophy without affecting nitric oxide synthase activity in rats. Bernátová I, et al. **Physiol Res** 1996;45(4):311–6
Influence of captopril on the serotonin–induced vasopressor effect in tail artery isolated from two–kidney, one–clip renal hypertensive rats. Morelowska–Spierzak D, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):417–22
Captopril prevents the oxidative damage to proteins after renal ischemia reperfusion injury: role of endothelin–1. Günal O, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jan; 56(1):23–7
Enhanced psychophysiological signs of attention after angiotensin–converting enzyme inhibition by captopril. Derad I, et al. **Psychophysiology** 1996 May;33(3):295–301
Angiotensin converting enzyme inhibitor captopril does not prevent acute gastrointestinal radiation damage in the rat. Moulder JE, et al. **Radiat Oncol Investig** 1997;5(2):50–3
Free radical scavenging properties of alacepril metabolites and lisinopril. Noda Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):125–36
Endothelin release is augmented with captopril in rat ischemia–reperfusion injury of the liver. Güllüoğlu BM, et al. **Res Exp Med (Berl)** 1996;196(4):227–33
Metabolic effects of the combination of furosemide and captopril in rat. López R, et al. **Rev Esp Fisiol** 1996 Jun; 52(2):89–94
PGE2 production after angiotensin–converting enzyme inhibition. Johnsen SA, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):81–8
Renal hemodynamic response to ureteral obstruction during converting enzyme inhibition. Frøkiaer J, et al. **Urol Res** 1996;24(4):217–27
[A research of acute hemodynamics and hormonal changes of intravenous captopril in patients with cor pulmonale and pulmonary hypertension] Tang B, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):303–5, 319 (Eng. Abstr.) **(Chi)**
[Reduction of incidence of ischemia–reperfusion induced ventricular fibrillation by captopril] Zhang M, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):559–64 (Eng. Abstr.) **(Chi)**
[ACE inhibitors with SH groups have no effect of ATP–dependent K channels––a dissertation] Köppel H, et al. **Acta Med Austriaca** 1996;23(3):109–12 (Eng. Abstr.) **(Ger)**
[Effects of captopril on the male reproductive organs and various semen parameters of rabbits] Köhler–Samouilidis G, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jun; 110(6):201–5 (Eng. Abstr.) **(Ger)**
[Effects pf captopril and D–penicillamine on kinins–mediated and chronic inflammation] Gáspár R, et al. **Acta Pharm Hung** 1996 Jul;66(4):171–6 (Eng. Abstr.) **(Hun)**
[A comparison of the effect of Capoten (captopril) and ramipril on the circadian profile of the arterial pressure and peripheral hemodynamics in patients with hypertension combined with diabetes mellitus] Filatova EV, et al. **Ter Arkh** 1996;68(5):67–70 (Eng. Abstr.) **(Rus)**
[Effect of captopril on angiotensin–converting enzyme activity and animal behavior in the "open field" test] Vernigora AN, et al. **Vopr Med Khim** 1996 Jan–Mar; 42(1):34–8 (Eng. Abstr.) **(Rus)**
[The effect of captopril on the development of adriamycin nephropathy in rats with spontaneous arterial hypertension] Jovanović D, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:47–9 (Eng. Abstr.) **(Scc)**
[Hemodynamic effects of oral captopril in patients with critical aortic stenosis] Martínez Sánchez C, et al. **Arch Inst Cardiol Mex** 1996 Jul–Aug;66(4):322–30 (Eng. Abstr.) **(Spa)**

POISONING

Captopril hepatotoxicity in a case of renal crisis due to systemic sclerosis. Deira JL, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1717–8

THERAPEUTIC USE

Evaluation of treatment for congestive heart failure in patients aged 60 years and older using generic measures of health status (SF–36 and COOP charts). Jenkinson C, et al. **Age Ageing** 1997 Jan;26(1):7–13
Metabolic effects of long–term treatments with nifedipine–retard and captopril in young hypertensive patients. Masuo K, et al. **Am J Hypertens** 1997 Jun; 10(6):600–10
Effects of UP269–6, a new angiotensin II receptor antagonist, and captopril on the progression of rat diabetic nephropathy. Villa E, et al. **Am J Hypertens** 1997 Mar; 10(3):275–81
Responses to acute myocardial stress and prior drug therapy on plasma levels of antioxidants and oxidants and the proposed role of interventions on molecular adaptations. Singh RB, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:517–20
Captopril in cardioplegia and reperfusion: protective effects on the ischemic heart. Gurevitch J, et al. **Ann Thorac Surg** 1997 Mar;63(3):627–33
The role of nitric oxide in radiation nephropathy. Cohen EP, et al. **Arch Physiol Biochem** 1996;104(2):200–6
Effects of efonidipine, nicardipine and captopril on proteinuria in aged spontaneously hypertensive rats. Shudo C, et al. **Arzneimittelforschung** 1996 Sep;46(9):852–4
Low dose of ACE–inhibitor enhances sodium excretion in volume expanded patients with borderline hypertension.

Borghi C, et al. **Blood Press** 1996 Mar;5(2):105–12

Effect of angiotensin–converting enzyme inhibition on infarct collagen deposition and remodelling during healing after transmural canine myocardial infarction. Jugdutt BI, et al. **Can J Cardiol** 1997 Jul;13(7):657–68

Captopril does not acutely modulate plasma endothelin–1 concentration in human congestive heart failure. Grenier O, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):561–5

Lisinopril in the treatment of congestive heart failure in elderly patients: comparison versus captopril. Morisco C, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):63–9

Wall stress–induced arrhythmias in the working rat heart as left ventricular hypertrophy regresses during captopril treatment. Dalton GR, et al. **Cardiovasc Res** 1997 Mar; 33(3):561–72

A three year clinical review of the impact of angiotensin converting enzyme inhibitors on the intra hospital mortality of congestive heart failure in Nigerians. Adewole AD, et al. **Cent Afr J Med** 1996 Aug;42(8):253–5

Beneficial effects of captopril on prognosis in patients with acute myocardial infarction. Shanghai Secondary Prevention of Acute Myocardial Infarction Study Group. Shen W, et al. **Chin Med J (Engl)** 1996 Aug;109(8):588–91

Abnormal left ventricular systolic and diastolic functional response to isometric exercise in idiopathic dilated cardiomyopathy: beneficial effect of captopril. Shen W, et al. **Chin Med Sci J** 1995 Dec;10(4):232–6

Regression of left ventricular hypertrophy with captopril restores normal ventricular action potential duration, dispersion of refractoriness, and vulnerability to inducible ventricular fibrillation. Rials SJ, et al. **Circulation** 1997 Aug 19;96(4):1330–6

Sustained hemodynamic efficacy of therapy tailored to reduce filling pressures in survivors with advanced heart failure. Steimle AE, et al. **Circulation** 1997 Aug 19; 96(4):1165–72

The effect of an angiotensin converting enzyme inhibitor on skin microvascular hyperaemia in microalbuminuric insulin–dependent diabetes mellitus. Yosipovitch G, et al. **Diabet Med** 1997 Mar;14(3):235–41

Spurious ketonuria due to captopril and other free sulfhydryl drugs [letter] Csako G, et al. **Diabetes Care** 1996 Jun; 19(6):673–4

An economic analysis of captopril in the treatment of diabetic nephropathy. The Collaborative Study Group. Rodby RA, et al. **Diabetes Care** 1996 Oct;19(10):1051–61

Effect of nifedipine, captopril and prazosin on secretory function of pancreatic beta–cells in hypertensive patients with type–2 (non–insulin–dependent) diabetes and in hypertensive non–diabetics. Jasik M, et al. **Diabetes Res Clin Pract** 1996 Jun;33(1):59–66

Hypertension in Diabetes Study IV. Therapeutic requirements to maintain tight blood pressure control [published erratum appears in Diabetologia 1997 Mar;40(3):366] **Diabetologia** 1996 Dec;39(12):1554–61

Effects of captopril on ventricular arrhythmias in the early and late phase of suspected acute myocardial infarction. Randomized, placebo–controlled substudy of ISIS–4. Budaj A, et al. **Eur Heart J** 1996 Oct;17(10):1506–10

Economic aspects of treatment with captopril after MI [editorial; comment] [see comments] Davie AP, et al. **Eur Heart J** 1996 May;17(5):648–50. Comment on: Eur Heart J 1996 May;17(5):731–40. Comment in: Eur Heart J 1997 Jan;18(1):165.

More favourable haemodynamic effects from metoprolol than from captopril in patients with dilated cardiomyopathy. Jansson K, et al. **Eur Heart J** 1997 Jul;18(7):1115–21

Captopril adjuvant therapy to beta–blockers and nitrates improves post–myocardial infarction left ventricular performance. Kyriakidis M, et al. **Eur Heart J** 1996 Jun; 17(6):864–73

Economic aspects of treatment with captopril for patients with asymptomatic left ventricular dysfunction in The Netherlands [see comments] Michel BC, et al. **Eur Heart J** 1996 May;17(5):731–40. Comment in: Eur Heart J 1996 May;17(5):648–50. Comment in: Eur Heart J 1997 Jan;18(1):165.

Sensitivity to ischemia of chronically infarcted rat hearts; effects of long–term captopril treatment. Kalkman EA, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):121–8

Combined sympathetic suppression and angiotensin–converting enzyme inhibition in congestive heart failure. Manolis AJ, et al. **Hypertension** 1997 Jan;29(1 Pt 2):525–30

Effects of captopril and ticlopidine, alone or in combination, in hypertensive patients with intermittent claudication. Novo S, et al. **Int Angiol** 1996 Jun;15(2):169–74

Comparison of captopril–thiazide and enalapril–thiazide combinations in the management of mild to moderate black hypertensive patients: how important is diuretic dose and duration of action of the ACE–inhibitor? Skoularigis J, et al. **Int J Clin Pharmacol Ther** 1996 Jun;34(6):263–8

The diagnosis of renovascular hypertension with technetium–99m–ethylenedicysteine captopril scintigraphy. Ugur O, et al. **Invest Radiol** 1996 Aug;31(8):497–501

Beta–adrenergic blocking agents or angiotensin–converting enzyme inhibitors, or both, for postinfarction patients with left ventricular dysfunction [editorial] O'Rourke RA. **J Am Coll Cardiol** 1997 Feb;29(2):237–9

Long–term anti–ischemic effects of angiotensin–converting enzyme inhibition in patients after myocardial infarction. The Captopril and Thrombolysis Study (CATS) Investigators. van den Heuvel AF, et al. **J Am Coll Cardiol** 1997 Aug;30(2):400–5

Additive beneficial effects of beta–blockers to angiotensin–converting enzyme inhibitors in the Survival and Ventricular Enlargement (SAVE) Study. SAVE Investigators. Vantrimpont P, et al. **J Am Coll Cardiol** 1997 Feb;29(2):229–36

Contrasting effects of calcium channel blockade versus converting enzyme inhibition on proteinuria in African Americans with non–insulin–dependent diabetes mellitus and nephropathy. Guasch A, et al. **J Am Soc Nephrol** 1997 May;8(5):793–8

Nifedipine, captopril, metoprolol and nifedipine with metoprolol in hypertensive crisis in non–intensive care setting. Karnik ND, et al. **J Assoc Physicians India** 1996 Jul;44(7):480–2

Hypotensive mechanisms of captopril––a counter–view [letter] Lazar AI. **J Assoc Physicians India** 1996 Oct; 44(10):753

Vasodilation by urapidil in the treatment of chronic congestive heart failure in addition to angiotensin–converting enzyme inhibitors is not beneficial: results of a placebo–controlled, double–blind study. Dorszewski A, et al. **J Card Fail** 1997 Jun;3(2):91–6

Indapamide is as effective as captopril in the control of microalbuminuria in diabetes. Molyneaux LM, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):424–7

Moexipril versus captopril in patients with mild to moderate hypertension. Stimpel M, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):769–73

Comparison of enalapril to captopril by 24–hour ambulatory blood pressure monitoring. Bental T, et al. **J Clin Pharmacol** 1997 Jun;37(6):514–9

Arterial stiffness, hydrochlorothiazide and converting enzyme inhibition in essential hypertension. Bénétos A, et al. **J Hum Hypertens** 1996 Feb;10(2):77–82

High–altitude pulmonary hypertension: effects of captopril on pulmonary and systemic arterial pressures. Niazova ZA, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S141–2

Quality of life in normotensives compared to hypertensive men treated with isradipine or methyldopa as monotherapy or in combination with captopril: the LOMIR–MCT–IL study. Yodfat Y, et al. **J Hum Hypertens** 1996 Feb; 10(2):117–22

Effects of captopril related to increased levels of prostacyclin and angiotensin–(1–7) in essential hypertension [see comments] Luque M, et al. **J Hypertens** 1996 Jun; 14(6):799–805. Comment in: J Hypertens 1996 Nov;14(11):1380–1.

Effects of captopril related to increased levels of prostacyclin and angiotensin–(1–7) in essential hypertension [letter; comment] Reneland R, et al. **J Hypertens** 1996 Nov; 14(11):1380–1. Comment on: J Hypertens 1996 Jun;14(6):799–805.

Endothelial dysfunction in spontaneously hypertensive rats: consequences of chronic treatment with losartan or captopril. Rodrigo E, et al. **J Hypertens** 1997 Jun; 15(6):613–8

Successful brief captopril treatment in experimental radiation nephropathy. Cohen EP, et al. **J Lab Clin Med** 1997 May; 129(5):536–47

The effect of angiotensin converting enzyme inhibition and angiotensin II receptor antagonism on obstructed rat bladder. Palmer LS, et al. **J Urol** 1997 Sep;158(3 Pt 2):1100–4

Captopril reduced plasminogen activator inhibitor activity in patients with acute myocardial infarction. Moriyama Y, et al. **Jpn Circ J** 1997 Apr;61(4):308–14

Protective effect of captopril on ischemic myocardium. Yanagishita T, et al. **Jpn Circ J** 1997 Feb;61(2):161–9

Losartan versus captopril in elderly patients with heart failure [letter; comment] Ball SG. **Lancet** 1997 May 17; 349(9063):1474; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Fournier A, et al. **Lancet** 1997 May 17; 349(9063):1473–4; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Jensen BV, et al. **Lancet** 1997 May 17; 349(9063):1473; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Randomised trial of losartan versus captopril in patients over 65 with heart failure (Evaluation of Losartan in the Elderly Study, ELITE) [see comments] Pitt B, et al. **Lancet** 1997 Mar 15;349(9054):747–52. Comment in: Lancet 1997 May 17;349(9063):1473; discussion 1475. Comment in: Lancet 1997 May 17;349(9063):1473–4; discussion 1475. Comment in: Lancet 1997 May 17;349(9063):1474; discussion 1475. Comment in: ACP J Club 1997 Sep–Oct;127(2):29.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Sechi LA, et al. **Lancet** 1997 May 17; 349(9063):1474; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Inhibition of angiogenesis in Kaposi's sarcoma by captopril [letter] Vogt B, et al. **Lancet** 1997 Apr 19;349(9059):1148

ACE inhibitors captopril and enalapril induce regression of left ventricular hypertrophy in hypertensive patients with chronic renal failure. Dyadyk AI, et al. **Nephrol Dial Transplant** 1997 May;12(5):945–51

Diabetic nephropathy and pregnancy: the effect of ACE inhibitors prior to pregnancy on fetomaternal outcome. Hod M, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2328–33

Captopril augments antitumor activity of cyclophosphamide in mice. Kowalski J, et al. **Pol J Pharmacol** 1996 May–Jun; 48(3):281–5

Effects of thiorphan, bestatin and captopril on the Lewis lung carcinoma metastases in mice. Kowalski J, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):423–7

Effects of captopril on renal functions, renal and portal hemodynamics in patients with cirrhosis. Tsai YT, et al. **Proc Natl Sci Counc Repub China B** 1996 Apr;20(2):44–50

The role of blood pressure and aldosterone in the production of hemorrhagic stroke in captopril–treated hypertensive rats. MacLeod AB, et al. **Stroke** 1997 Sep;28(9):1821–8; discussion 1829

Captopril (an inhibitor of angiotensin converting enzyme) inhibits obstructive changes in the neonatal rabbit bladder. Cheng EY, et al. **Urology** 1997 Sep;50(3):465–71

[Economic evaluation of the contribution of captopril in the treatment of diabetic nephropathy:a cost–benefit approach] Le Pen C, et al. **Nephrologie** 1996;17(6):321–6 (10 ref.) (Eng. Abstr.) **(Fre)**

[Comparative effects of captopril and atenolol on lipid metabolism in hypertensive hypercholesterolemic patients treated with pravastatin. A multicenter controlled trial] Witchitz S, et al. **Presse Med** 1996 Dec 21;25(40):2013–6 (Eng. Abstr.) **(Fre)**

[The value of renal angioscintigraphy with captopril administration in renovascular hypertension] Barreto dos Santos A, et al. **Rev Med Liege** 1996 Oct;51(10):627–31 **(Fre)**

[The effectiveness and tolerance of ramipril in comparison to captopril for heart failure in dogs] Hofmann S, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 May;103(5):159–63 (Eng. Abstr.) **(Ger)**

[The hypertensive type II diabetic patient treated with captopril in free general practice (Austrian Safety Study). An indications study] Stanek B, et al. **Wien Med Wochenschr** 1997;147(11):267–74 (Eng. Abstr.) **(Ger)**

[Use of captopril in therapeutic combinations] Alföldi S. **Acta Pharm Hung** 1997 Jul;67(4):149–53 (18 ref.) (Eng. Abstr.) **(Hun)**

[Captopril treatment of hypertension] Farsang C. **Acta Pharm Hung** 1997 Jul;67(4):141–8 (21 ref.) (Eng. Abstr.) **(Hun)**

[Captopril in the treatment of heart failure] Kékes E. **Acta Pharm Hung** 1997 Jul;67(4):155–63 (21 ref.) (Eng. Abstr.) **(Hun)**

[The effect of captopril therapy on the degree of microalbuminuria in diabetic children and adolescents with incipient nephropathy] Barkai L, et al. **Orv Hetil** 1996 Nov 17;137(46):2565–8 (35 ref.) (Eng. Abstr.) **(Hun)**

[Is the reduction of the plasma levels of endothelin in the acute and sub–acute stage of myocardial infarct one of the beneficial effects of early treatment with ace inhibitors?] Di Pasquale P, et al. **G Ital Cardiol** 1996 Jun;26(6):673–80 (Eng. Abstr.) **(Ita)**

[Influence of angiotensin I converting enzyme inhibitors on selected parameters of zinc metabolism] Peczkowska M. **Pol Arch Med Wewn** 1996 Jul;96(1):32–8 (Eng. Abstr.) **(Pol)**

[When does the treatment with captopril show a better improvement in physical performance in patients with heart failure?] Canesin MF, et al. **Arq Bras Cardiol** 1996 Aug; 67(2):77–80 (Eng. Abstr.) **(Por)**

[Comparative effects of captopril and chlorthalidone on glucose tolerance and insulin levels essential hypertensives] Zanella MT, et al. **Arq Bras Cardiol** 1996 Jul;67(1):47–52 (Eng. Abstr.) **(Por)**

[The efficacy of Capoten in different clinical courses of acute myocardial infarct] Mikashinovich ZI, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):39–44 **(Rus)**

[The clinical efficacy of Korinfar–retard in combination with Cordanum, triampur and Capoten in patients with arterial hypertension] Kukes VG, et al. **Klin Med (Mosk)** 1996; 74(2):20–3 (Eng. Abstr.) **(Rus)**

[The effect of angiotensin–converting enzyme inhibitors on left ventricular hypertrophy in patients with chronic glomerulonephritis and pronounced kidney failure] Diadyk AI, et al. **Ter Arkh** 1997;69(6):24–7 (Eng. Abstr.) **(Rus)**

[The Multicenter Captopril and the Quality of Life Study: the effect of antihypertensive agents from the basic groups on the quality of life of patients in different populations. The working group of the Multicenter Captopril and the Quality of Life Study] Metelitsa VI, et al. **Ter Arkh** 1996; 68(4):29–36 (Eng. Abstr.) **(Rus)**

[Reperfusion arrhythmias in valvular patients undergoing extracorporeal surgery and pretreated with captopril] Ruiz–Ros JA, et al. **Rev Esp Cardiol** 1997 Jul;50(7):491–7 (Eng. Abstr.) **(Spa)**

[A comparative study of the hemodynamic and antioxidant effects of Capoten and prazosin in patients with refractory heart failure] Sabadyshyn RO, et al. **Lik Sprava** 1997 Mar–Apr;(2):72–6 (Eng. Abstr.) **(Ukr)**

[The effect of the angiotensin–converting enzyme inhibitor Capoten on the volume–regulation indices of patients with stage–II hypertension] Vladkovs'kyĭ IK, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):113–7 (Eng. Abstr.) **(Ukr)**

CAR SEATS see **INFANT EQUIPMENT**

CARASSIUS AURATUS

CARASSIUS AURATUS see **GOLDFISH**

CARASSIUS CARASSIUS see **CARP**

CARBACHOL

ADVERSE EFFECTS

Effects of acetylcholine and carbachol on bovine corneal endothelial cells in vitro. Yee RW, et al. **J Cataract Refract Surg** 1996 Jun;22(5):591–6

AGONISTS

S-albuterol exacerbates calcium responses to carbachol in airway smooth muscle cells. Yamaguchi H, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):47–55

ANALOGS & DERIVATIVES

Analogues of carbacholine: synthesis and relationship between structure and affinity for muscarinic and nicotinic acetylcholine receptors. Søkilde B, et al. **Arch Pharm (Weinheim)** 1996 Feb;329(2):95–104

ANTAGONISTS & INHIBITORS

Antagonism of striatal muscarinic receptors inhibiting dopamine D1 receptor-stimulated adenylyl cyclase activity by cholinoceptor antagonist used to treat Parkinson's disease. Olianas MC, et al. **Br J Pharmacol** 1996 Jun; 118(4):827–8

Mutual inhibitory effects between dopamine and carbachol on the excitatory synaptic transmission in the rat neostriatum. Hsu KS, et al. **J Neurosci Res** 1996 Oct 1; 46(1):34–41

SK & F 96365 inhibits carbachol-induced phosphoinositide turnover in human neuroblastoma SH-SY5Y and rat cerebellar granule cells. Lin WW, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):53–8

Inhibition by NMDA of carbachol-stimulated inositol tetrakisphosphate accumulation in rat brain cortical slices. Myles ME, et al. **Neuropharmacology** 1996 Apr; 35(4):415–21

CHEMISTRY

Conformational analysis of acetylcholine and related choline esters. Frydenvang K, et al. **Acta Crystallogr B** 1996 Feb 1;52 (Pt 1):184–93

METABOLISM

Interaction of serotonergic excitatory drive to hypoglossal motoneurons with carbachol-induced, REM sleep-like atonia. Kubin L, et al. **Sleep** 1996 Apr;19(3):187–95

PHARMACOLOGY

Effect of changes in transmural pressure on contraction frequency of the isolated right atrium of the rabbit. Bolter CP. **Acta Physiol Scand** 1996 Jan;156(1):45–50

Assessment of receptor reserve during cholinergically induced intestinal secretion in rat jejunum in vitro. Przyborski SA, et al. **Acta Physiol Scand** 1996 Dec; 158(4):377–9

beta 1-and beta 2-adrenergic receptors exhibit differing susceptibility to muscarinic accentuated antagonism. Aprigliano O, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2726–35

Carbachol, but not forskolin, increases mucosal-to-serosal transport of intact protein in rat ileum in vitro. Bijlsma PB, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G147–55

Beta-blockade reduces effects of adenosine and carbachol by transregulation of inhibitory receptors and Gi proteins. Borst MM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1672–9

ARF-independent inhibition of the carbachol-induced contractions by brefeldin A in intestinal smooth muscle. Loirand G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C816–21

CCK, carbachol, and bombesin activate distinct PLC-beta isoenzymes via Gq/11 in rat pancreatic acinar membranes. Piiper A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G135–40

Chronic carbachol pretreatment decreases adenylyl cyclase activity in airway smooth muscle. Schears G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L640–7

Transient activation of K+ channels by carbachol in bovine pigmented ciliary body epithelial cells. Stelling JW, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C203–9

Involvement of G proteins in the effect of carbachol and cholecystokinin in rat pancreatic islets. Verspohl EJ, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E65–72

Caffeine- and carbachol-induced Cl- and cation currents in single opossum esophageal circular muscle cells. Wang Q, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1725–34

Dissociation of negative inotropic effect of carbachol from changes in cAMP and PKA in perfused rat hearts. Zhang JZ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H404–9

Modulation of cyclic AMP and inositol phosphate production in rat prostatic cultures by VIP/PACAP, ATP, and carbachol: role in prostatic proliferation. Guijarro LG, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:723–8

Kainic acid versus carbachol induced emotional-defensive response in the cat. Eckersdorf B, et al. **Behav Brain Res** 1996 May;77(1-2):201–10

Cytosolic Ca2+ gradients in pancreatic islet-cells stimulated by glucose and carbachol. Martín F, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):465–8

Modulation of muscarinic receptor-stimulated phosphoinositide breakdown by sulfhydryl group modification is a general response in different rat brain regions and depends on the stage of brain development. Balduini W, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):427–32

Effects of carbamylcholine and pyridostigmine on mitochondrial-bound hexokinase in skeletal muscle and heart. Glass-Marmor L, et al. **Biochem Mol Med** 1996 Feb; 57(1):67–70

Effect of K+-induced depolarization on carbachol-stimulated inositol tetrakisphosphate accumulation in rat cerebrocortical slices. Myles ME, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):19–24

Modulation of carbachol-induced [Ca2+]i oscillations by Ca2+ influx in single intestinal smooth muscle cells. Komori S, et al. **Br J Pharmacol** 1996 Sep;119(2):245–52

Cellular mechanisms underlying carbachol-induced oscillations of calcium-dependent membrane current in smooth muscle cells from mouse anococcygeus. Wayman CP, et al. **Br J Pharmacol** 1997 Aug;121(7):1301–8

Muscarinic receptors mediate carbachol-induced phase shifts of circadian activity rhythms in Syrian hamsters. Bina KG, et al. **Brain Res** 1996 Dec 16;743(1-2):202–11

Involvement of endogenous opioids and ATP-sensitive potassium channels in the mediation of carbachol-induced antinociception at the spinal level: a behavioral study in rats. Kang Y, et al. **Brain Res** 1997 Jul 4;761(2):342–6

State-dependent phenomena in cat masseter motoneurons. Kohlmeier KA, et al. **Brain Res** 1996 May 25;722(1-2):30–8

Role of cholinergic inputs to the medial preoptic area in regulation of sleep-wakefulness and body temperature in freely moving rats. Mallick BN, et al. **Brain Res** 1997 Mar 7;750(1-2):311–7

Muscarinic control of amyloid precursor protein secretion in rat cerebral cortex and cerebellum. Pittel Z, et al. **Brain Res** 1996 Dec 2;742(1-2):299–304

Carbachol stimulates c-fos expression and proliferation in oligodendrocyte progenitors. Cohen RI, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):193–201

Effect of a non-peptide angiotensin receptor antagonist on water intake caused by centrally administered carbachol in the rat. Reis LC, et al. **Braz J Med Biol Res** 1996 Feb; 29(2):245–7

Droperidol inhibits tracheal contraction induced by serotonin, histamine or carbachol in guinea pigs. Sato T, et al. **Can J Anaesth** 1996 Feb;43(2):172–8

Evidence for muscarinic 3 receptor mediated ion transport in HT29 cells studied by X-ray microanalysis. Zhang W, et al. **Cell Struct Funct** 1997 Jun;22(3):379–85

Secretagogue-induced apocrine secretion in the Harderian gland of the rat. Gesase AP, et al. **Cell Tissue Res** 1996 Sep;285(3):501–7

Exocytosis in the antral gastrin cells of mouse, rat, and guinea pig after stimulation by carbamylcholine. Oomori Y, et al. **Cell Tissue Res** 1997 Sep;289(3):463–72

Effects of carbachol and catecholamines on ultrastructure and intracellular calcium-ion dynamics of acinar and myoepithelial cells of lacrimal glands. Satoh Y, et al. **Cell Tissue Res** 1997 Sep;289(3):473–85

S-albuterol exacerbates calcium responses to carbachol in airway smooth muscle cells. Yamaguchi H, et al. **Clin Rev Allergy Immunol** 1996 Spring;14(1):47–55

Cholinergic stimulation of lactoferrin and epidermal growth factor secretion by the human lacrimal gland [see comments] Yoshino K, et al. **Cornea** 1996 Nov;15(6):617–21 . Comment in: Cornea 1997 Jul;16(4):501–2.

Effect of carbachol on vascular and luminal release of immunoreactive gastrin from isolated perfused rat duodenum. Fujimiya M, et al. **Dig Dis Sci** 1997 Mar; 42(3):634–9

Cytoplasmic Ca2+ in glucagon-producing pancreatic alpha-cells exposed to carbachol and agents affecting Na+ fluxes. Berts A, et al. **Endocrine** 1997 Feb;6(1):79–83

Competitive NMDA receptor antagonists do not block cholinergic kindling with carbachol. Saucier D, et al. **Epilepsy Res** 1996 May;24(1):9–18

Loss of endothelium-mediated vascular relaxation as a response to various clamping pressures. Gersak B, et al. **Eur J Cardiothorac Surg** 1996;10(8):684–9

Carbamoylcholine regulation of polyphosphoinositide synthesis and hydrolysis in cultured, dispersed, digitonin-permeabilized mouse pancreatic islet cells. Kardasz AM, et al. **Eur J Endocrinol** 1997 May; 136(5):539–45

Cholinergic modulation of the action potential in rat hippocampal neurons. Figenschou A, et al. **Eur J Neurosci** 1996 Jan;8(1):211–9

Critical role for M3 muscarinic receptors in paradoxical sleep generation in the cat. Sakai K, et al. **Eur J Neurosci** 1997 Mar;9(3):415–23

Differential effects of acetylcholine on neuronal activity and interactions in the auditory cortex of the guinea-pig. Shulz DE, et al. **Eur J Neurosci** 1997 Feb;9(2):396–409

Functional partial agonism at cloned human muscarinic acetylcholine receptors. Bräuner-Osborne H, et al. **Eur J Pharmacol** 1996 Oct 10;313(1-2):145–50

Effects of phorbol ester on carbachol-induced contraction in bovine ciliary muscle: possible involvement of protein kinase C. Daniele E, et al. **Eur J Pharmacol** 1997 Jul 9; 330(2-3):247–56

Parasympathetic inhibition of pineal indole metabolism by prejunctional modulation of noradrenaline release. Drijfhout WJ, et al. **Eur J Pharmacol** 1996 Jul 18; 308(2):117–24

High carbachol increases the electrically induced [Ca2+]i transient in the single isolated ventricular myocyte of rats. Wang HX, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):91–9

Desynchronized (REM) sleep inhibition induced by carbachol microinjections into the nucleus basalis of Meynert is mediated by the glutamatergic system. Manfridi A, et al. **Exp Brain Res** 1996 Apr;109(1):174–8

Muscarinic receptors and insulin concentration in the rat pancreas after chronic alcohol intake and cholinergic stimulation. Laine VJ, et al. **Exp Toxicol Pathol** 1996 Jan; 48(1):77–9

Effects of carbamylcholine and pyridostigmine on cytoskeleton-bound and cytosolic phosphofructokinase and ATP levels in different rat tissues. Glass-Marmor L, et al. **Gen Pharmacol** 1996 Oct;27(7):1241–6

Inhibitory effect of caffeine on the response to carbachol in rat pancreatic acini. Grosflis K, et al. **Gen Pharmacol** 1996 Sep;27(6):1041–6

Modulation of Ca(2+)-activated K+ current by isoprenaline, carbachol, and phorbol ester in cultured (and fresh) rat aortic vascular smooth muscle cells. Satoh H. **Gen Pharmacol** 1996 Mar;27(2):319–24

Effects of acetylcholine, carbachol, and mannitol on rabbit corneal endothelial function as assessed by corneal deturgescence. Akiyama R, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jun;235(6):384–7

Differences in cholinergic responses from outer hair cells of rat and guinea pig. Chen C, et al. **Hear Res** 1996 Sep 1;98(1-2):9–17

Different responsiveness to nitric oxide-cyclic guanosine monophosphate pathway in cholinergic and tachykinergic contractions of the rabbit iris sphincter muscle. Chuman H, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1719–25

Gs and Gq/11 couple vasoactive intestinal peptide and cholinergic stimulation to lacrimal secretion. Meneray MA, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1261–70

Airway wall dimensions during carbachol-induced bronchoconstriction in rabbits. Sasaki F, et al. **J Appl Physiol** 1996 Oct;81(4):1578–83

Participation of the autonomic nervous system in lipolysis induced by intraventricular injection of carbachol in the pigeon. de Mello DM, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1-2):83–6

Evidence of systemic neuropeptide Y release after carbachol administration into the posterior hypothalamic nucleus. Martin JR. **J Cardiovasc Pharmacol** 1996 Sep;28(3):447–57

Mechanisms of the cardiovascular response to posterior hypothalamic nucleus administration of carbachol. Martin JR. **J Cardiovasc Pharmacol** 1996 Jun;27(6):891–900

The chloride conductance of tight junctions of rat ileum can be increased by cAMP but not by carbachol. Bijlsma PB, et al. **J Membr Biol** 1997 May 15;157(2):127–37

A9 fibroblasts transfected with the m3 muscarinic receptor clone express a Ca2+ channel activated by carbachol, GTP and GDP. Singer-Lahat D, et al. **J Membr Biol** 1997 Sep 1;159(1):21–8

Immunolocalization of lacrimal gland PKC isoforms. Effect of phorbol esters and cholinergic agonists on their cellular distribution. Zoukhri D, et al. **J Membr Biol** 1997 May 15;157(2):169–75

Implication of Ca(2+)-dependent protein tyrosine phosphorylation in carbachol-induced phospholipase D activation in rat pheochromocytoma PC12 cells. Ito Y, et al. **J Neurochem** 1997 Jan;68(1):419–25

Phorbol esters but not the cholinergic agonists oxotremorine-M and carbachol increase release of the amyloid precursor protein in cultured rat cortical neurons. Mills J, et al. **J Neurochem** 1996 Oct;67(4):1511–8

Role of Egr-1 in cholinergic stimulation of phenylethanolamine N-methyltransferase promoter. Morita K, et al. **J Neurochem** 1996 Oct;67(4):1344–51

M3 muscarinic receptor-mediated enhancement of NMDA-evoked adenosine release in rat cortical slices in vitro. Semba K, et al. **J Neurochem** 1997 Sep;69(3):1066–72

Human meningiomas possess muscarinic acetylcholine receptors: stimulation of phosphatidylinositol turnover by carbachol. Adams EF, et al. **J Neurooncol** 1997 Mar; 32(1):1–6

Activation of the protein phosphatase calcineurin during carbachol exposure decreases the extent of recovery from end-plate desensitization. Hardwick JC, et al. **J Neurophysiol** 1996 Dec;76(6):3609–16

Ionic mechanisms of muscarinic depolarization in entorhinal cortex layer II neurons. Klink R, et al. **J Neurophysiol** 1997 Apr;77(4):1829–43

Cholinergic stimulation of AP-1 and NF kappa B transcription factors is differentially sensitive to oxidative stress in SH-SY5Y neuroblastoma: relationship to phosphoinositide hydrolysis. Li X, et al. **J Neurosci** 1996 Oct 1;16(19):5914–22

Muscarinic modulation of spike backpropagation in the apical dendrites of hippocampal CA1 pyramidal neurons. Tsubokawa H, et al. **J Neurosci** 1997 Aug 1;17(15):5782–91

Mutual inhibitory effects between dopamine and carbachol on the excitatory synaptic transmission in the rat

neostriatum. Hsu KS, et al. **J Neurosci Res** 1996 Oct 1; 46(1):34–41

[3H]inositol polyphosphate metabolism in muscarinic cholinoceptor-stimulated airways smooth muscle: accumulation of [3H]inositol 4,5 bisphosphate via a lithium-sensitive inositol polyphosphate 1-phosphatase. Lynch BJ, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):974–82

Regulation of [Ca++]i in human neuroblastoma (SH-SY5Y) cells expressing recombinant rat angiotensin1A receptors by angiotensin II and carbachol. McDonald RL, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1257–63

Sensitivity differences to 5-HT and carbachol in subsections of the isolated rat stomach fundus strip: an improved preparation. Riazi-Farzad B, et al. **J Pharmacol Toxicol Methods** 1996 Aug;35(4):217–21

Carbachol-induced [Ca2+]i oscillations in single smooth muscle cells of guinea-pig ileum. Kohda M, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):315–28

Role of Rho proteins in carbachol-induced contractions in intact and permeabilized guinea-pig intestinal smooth muscle. Otto B, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):317–29

Mediation by nitric oxide of the carbachol-induced corticosterone secretion in rats. Bugajski J, et al. **J Physiol Pharmacol** 1997 Jun;48(2):277–84

Influence of oestrogens on muscarinic receptor density and contractile response in the guinea-pig uterus. Matucci R, et al. **J Reprod Fertil** 1996 Jul;107(2):153–60

Carbachol but not acetylcholine inhibits contraction by the protein kinase C-dependent and -independent pathways in the smooth muscle of guinea pig taenia caeci. Mitsui-Saito M, et al. **Jpn J Pharmacol** 1996 Sep;72(1):23–8

Muscarinic acetylcholine receptors on rat thymocytes: their possible involvement in DNA fragmentation. Yamada T, et al. **Jpn J Pharmacol** 1997 Apr;73(4):311–6

Role of calcium ions in the potentiation by isoproterenol of carbachol-induced ionic currents and secretion activity in rat salivary glands. Hirono C, et al. **Jpn J Physiol** 1997; 47 Suppl 1:S60–1

Simultaneous effects of carbachol on intracellular Na+ activity, action potential, and twitch tension in guinea-pig cardiac ventricular papillary muscles. Yang JM, et al. **Jpn J Physiol** 1996 Jun;46(3):225–30

Cholinergic-induced production of reactive oxygen species in human neuroblastoma cells. Naarala J, et al. **Life Sci** 1997;60(21):1905–14

The effect of ovariectomy on the contractile response of the rat isolated detrusor muscle and urethra. Palea S, et al. **Life Sci** 1997;61(1):PL21–6

Dissociated insulinotropic sensitivity to glucose and carbachol in high-fat diet-induced insulin resistance in C57BL/6J mice. Ahrén B, et al. **Metabolism** 1997 Jan; 46(1):97–106

A myristoylated pseudosubstrate peptide inhibitor of protein kinase C: effects on glucose- and carbachol-induced insulin secretion. Harris TE, et al. **Mol Cell Endocrinol** 1996 Aug 9;121(2):133–41

Pharmacology of muscarinic receptor subtypes constitutively activated by G proteins. Burstein ES, et al. **Mol Pharmacol** 1997 Feb;51(2):312–9

Pituitary adenylate cyclase-activating peptide, carbachol, and glucose stimulate insulin release in the absence of an increase in intracellular Ca2+. Komatsu M, et al. **Mol Pharmacol** 1996 Oct;50(4):1047–54

Irreversible agonist and antagonist properties of isothiocyanatobenzyl imidazoline in albino rabbit iris muscles. Ishikawa H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug-Sep; 354(3):362–8

Cholecystokinin-JMV-180 and pilocarpine are potent inhibitors of cholecystokinin and carbachol actions on guinea pig pancreatic acinar cells. Sjödin L, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):631–7

Effect of prenatal treatment with methylazoxymethanol on carbachol-, norepinephrine- and glutamate-stimulated phosphoinositide metabolism in the neonatal, young, and adult offspring. Balduini W, et al. **Neurochem Res** 1995 Oct;20(10):1211–16

Effects of NMDA on carbachol-stimulated phosphatidylinositol resynthesis in rat brain cortical slices. Lee HM, et al. **Neurochem Res** 1997 May;22(5):607–14

Effect of cholinergic stimulation on free intracellular Ca2+ concentration in human lymphocytes. Laskowska-Bozek H, et al. **Neuroimmunomodulation** 1996 Jul-Aug;3(4):247–53

Characterization of phospholipase D activation by muscarinic receptors in human neuroblastoma SH-SY5Y cells. Boyano-Adánez MC, et al. **Neuropharmacology** 1997 Mar; 36(3):295–304

Prolonged enhancement of REM sleep produced by carbachol microinjection into the amygdala. Calvo JM, et al. **Neuroreport** 1996 Jan 31;7(2):577–80

Carbachol inhibits basal and forskolin-evoked adult rat striatal acetylcholine release. Login IS. **Neuroreport** 1997 May 27;8(8):1863–6

Carbachol mimics effects of sensory input on tyrosine phosphorylation in cortex. Rosenblum K, et al. **Neuroreport** 1996 May 31;7(8):1401–4

Acetylcholine and carbachol prevent muscle depolarization in denervated rat diaphragm. Urazaev AK, et al. **Neuroreport** 1997 Jan 20;8(2):403–6

Carbachol stimulates inositol phosphate formation in rat thalamus slices through muscarinic M3-receptor activation. de la Vega MT, et al. **Neurosci Lett** 1996 Jul 26; 213(1):29–32

M3 muscarinic receptors mediate cholinergic excitation of the spontaneous activity of subthalamic neurons in the rat. Flores G, et al. **Neurosci Lett** 1996 Jan 26;203(3):203–6

Carbachol induces inward current in rat neostriatal neurons through a G-protein-coupled mechanism. Hsu KS, et al. **Neurosci Lett** 1997 Mar 14;224(2):79–82

Excitatory effects induced by carbachol on bursting neurons of the rat subiculum. Kawasaki H, et al. **Neurosci Lett** 1996 Nov 15;219(1):1–4

Involvement of M2 receptor in an enhancement of long-term potentiation by carbachol in Schaffer collateral-CA1 synapses of hippocampal slices. Shimoshige Y, et al. **Neurosci Res** 1997 Feb;27(2):175–80

Carbachol induces inward current in neostriatal neurons through M1-like muscarinic receptors. Hsu KS, et al. **Neuroscience** 1996 Aug;73(3):751–60

Strychnine blocks inhibitory postsynaptic potentials elicited in masseter motoneurons by sensory stimuli during carbachol-induced motor atonia. Kohlmeier KA, et al. **Neuroscience** 1997 Jun;78(4):1195–202

Rhythmic firing of medial septum non-cholinergic neurons. Serafin M, et al. **Neuroscience** 1996 Dec;75(3):671–5

Inhibitory effect of phorbol 12,13 dibutyrate on carbachol-activated nonselective cationic current in guinea-pig gastric myocytes. Ahn SC, et al. **Pflugers Arch** 1997 Aug;434(4):505–7

Differential stimulation of intestinal mucin secretion by cholera toxin and carbachol. Epple HJ, et al. **Pflugers Arch** 1997 Mar;433(5):638–47

Effects of myosin light chain kinase inhibitors on carbachol-activated nonselective cationic current in guinea-pig gastric myocytes. Kim YC, et al. **Pflugers Arch** 1997 Aug;434(4):346–53

Activation of non-selective cation conductance by carbachol in freshly isolated bovine ciliary muscle cells. Takai Y, et al. **Pflugers Arch** 1997 Apr;433(6):705–12

Effect of uncoupling NO/cGMP pathways on carbachol- and CCK-stimulated Ca2+ entry and amylase secretion from the rat pancreas. Yoshida H, et al. **Pflugers Arch** 1997 May;434(1):25–37

Time-dependent effects of cholinergic stimulation on beta cell responsiveness. Zawalich WS, et al. **Pflugers Arch** 1996 Aug;432(4):589–96

Comparison of the behavioural effects of infusion of carbachol and acetylcholinesterase into the rat substantia nigra. Hawkins CA, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):67–80

Muscarinic receptor activated Ca2+ channels in non-excitable cells. Singer-Lahat D, et al. **Prog Brain Res** 1996;109:195–9

Comparative evaluation of impulse oscillometry and a monofrequency forced oscillation technique in clinically healthy calves undergoing bronchochallenges. Reinhold P, et al. **Res Vet Sci** 1996 Nov;61(3):206–13

The inhibitory effect of fluoride on carbachol-induced bovine bronchial contraction. Zhao W, et al. **Respir Physiol** 1997 May;108(2):171–9

Interaction of serotonergic excitatory drive to hypoglossal motoneurons with carbachol-induced, REM sleep-like atonia. Kubin L, et al. **Sleep** 1996 Apr;19(3):187–95

Activation of muscarinic receptors stimulates GABA release in the rat globus pallidus. Kayadjanian N, et al. **Synapse** 1997 Jun;26(2):131–9

Carbachol-induced bladder mast cell activation: augmentation by estradiol and implications for interstitial cystitis. Spanos C, et al. **Urology** 1996 Nov;48(5):809–16

Ileal inhibition and modulation of carbachol-stimulated proximal small intestinal motor functions in humans. Gröger G, et al. **Z Gastroenterol** 1996 Dec;34(12):791–4

[Mutually potentiating effect of joint action of carbacholine and histamine on secretion and the isoenzyme spectrum of pepsin from frog gastric mucosa cells] Tairov MM, et al. **Biokhimiia** 1996 Sep;61(9):1617–26 (Eng. Abstr.) **(Rus)**

[The effect of carbacholine and noradrenaline on intertissue connections during the reparative process] Grabovoĭ AN. **Lik Sprava** 1996 Oct-Dec;(10-12):104–7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Prevention of urinary retention after general surgery: a controlled trial of carbachol/diazepam versus alfusozine. Burger DH, et al. **J Am Coll Surg** 1997 Sep;185(3):234–6

CARBADOX

THERAPEUTIC USE

Quinoxaline-2-carboxylic acid (QCA) in swine liver and muscle. Rutalj M, et al. **Food Addit Contam** 1996 Nov-Dec; 13(8):879–82

CARBAMATES

Increasing the sensitivity of 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate amino acid analysis: a simple solution. Crimmins DL, et al. **Anal Biochem** 1997 Jan 15;244(2):407–10

High-resolution reversed-phase high-performance liquid chromatography analysis of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate. Weiss T, et al. **Anal Biochem** 1997 May 1; 247(2):294–304

High performance liquid chromatography enantioseparation of chiral pharmaceuticals using tris(chloro-methylphenylcarbamate)s of cellulose. Chankvetadze B, et al. **J Pharm Biomed Anal** 1996 Jun; 14(8-10):1295–303

Comparison of different insecticides and fabrics for anti-mosquito bednets and curtains. Curtis CF, et al. **Med Vet Entomol** 1996 Jan;10(1):1–11

ADVERSE EFFECTS

Iodopropynyl butylcarbamate: a new contact allergen. Bryld LE, et al. **Contact Dermatitis** 1997 Mar;36(3):156–8

Contact allergy and exposure patterns to thiurams and carbamates in consecutive patients. Knudsen BB, et al. **Contact Dermatitis** 1996 Aug;35(2):97–9

ANALYSIS

Estimation of anthelmintic compound 81/470 in cow's milk by high-performance liquid chromatography: method development and validation. Nagaraja NV, et al. **J Pharm Biomed Anal** 1997 May;15(8):1175–80

BLOOD

Determination of the anticancer agent CI-980 in plasma by achiral liquid chromatography on a Pirkle-type stationary phase. Markoglou N, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):493–7

Determination of BMS-186318 in dog, rat and monkey plasma by liquid chromatography-ionspray mass spectrometry. Jemal M, et al. **J Pharm Biomed Anal** 1995 Dec;14(1-2):43–8

Development of HPLC plasma assays for CAM 4515 and CAM 4750, two new nonpeptide tachykinin antagonists, and application to bioavailability studies. Van Noord T, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1709–16

CHEMICAL SYNTHESIS

Synthesis and cytotoxic studies of 5-O-(beta-glucopyranosyl)-2-nitrobenzyl caged L-leucyl-L-leucine methyl ester with increased solubility in PBS containing 1% DMSO. Sakauchi H, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):211–5

Development of a novel thiol reagent for probing ion channel structure: studies in a model system. Foong LY, et al. **Biochemistry** 1997 Feb 11;36(6):1343–8

Design, synthesis, and biological activity of anti-angiogenic hypoxic cell radiosensitizer haloacetylcarbamoyl-2-nitroimidazoles. Hori H, et al. **Bioorg Med Chem** 1997 Mar;5(3):591–9

A new time-dependent reversible inhibitor of monoamine oxidase. Williams CH, et al. **J Enzyme Inhib** 1996; 10(3):159–65

Potent HIV protease inhibitors containing a novel (hydroxyethyl)amide isostere. Beaulieu PL, et al. **J Med Chem** 1997 Jul 4;40(14):2164–76

Synthesis and selective monoamine oxidase B-inhibiting properties of 1-methyl-1,2,3,6-tetrahydropyrid-4-yl carbamate derivatives: potential prodrugs of (R)- and (S)-nordeprenyl. Flaherty P, et al. **J Med Chem** 1996 Nov 22;39(24):4756–61

Arylcarbamate derivatives of 1-piperidineethanol as potent ligands for 5-HT4 receptors. Soulier JL, et al. **J Med Chem** 1997 May 23;40(11):1755–61

CHEMISTRY

The influence of glycerol, propylene glycol and sorbitol on surface tension, partition coefficient and diffusion of pyrrolidinoethylester of 3-heptyloxy phenylcarbamic acid (drug XX Z). Vitková Z, et al. **Acta Pol Pharm** 1995 Nov-Dec;52(6):483–5

Preparation of silica gel-bonded amylose through enzyme-catalyzed polymerization and chiral recognition ability of its phenylcarbamate derivative in HPLC. Enomoto N, et al. **Anal Chem** 1996 Sep 1;68(17):2798–804

Molecular recognition by cholesterol esterase of active site ligands: structure-reactivity effects for inhibition by aryl carbamates and subsequent carbamylenzyme turnover. Feaster SR, et al. **Biochemistry** 1996 Dec 24; 35(51):16723–34

New carbamate supports for the preparation of 3'-amino-modified oligonucleotides. Aviñó A, et al. **Bioorg Med Chem** 1996 Oct;4(10):1649–58

Polyamine analysis using N-hydroxysuccinimidyl-6-aminoquinoyl carbamate for pre-column derivatization. Merali S, et al. **J Chromatogr B Biomed Appl** 1996 Jan 26;675(2):321–6

ISOLATION & PURIFICATION

HPLC separation of enantiomers of carbisocaine. Study of local anaesthetics, part 138. Cižmárik J, et al. **Pharmazie** 1997 May;52(5):402–3

CARBAMATES

METABOLISM

Enhanced soil biodegradation of prosulfocarb herbicide in barley crop. Rouchaud J, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):752–7

PHARMACOKINETICS

Cellular transport of CI–980. Hook KE, et al. **Invest New Drugs** 1996;14(4):341–7

Development of HPLC plasma assays for CAM 4515 and CAM 4750, two new nonpeptide tachykinin antagonists, and application to bioavailability studies. Van Noord T, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1709–16

Determination of analytical form of system weighting function. Durisová M, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul–Aug; 18(6):407–12

PHARMACOLOGY

SDZ ENA 713 facilitates central cholinergic function and ameliorates spatial memory impairment in rats. Ohara T, et al. **Behav Brain Res** 1997 Feb;83(1–2):229–33

Inhibitory effect of 4–(2, 6–dichlorophenyl)–1, 2, 5–thiadiazol–3–yl–N–methyl, N–ethylcarbamate on replication of human immunodeficiency virus type 1 and the mechanism of action. Ijichi K, et al. **Biochem Mol Biol Int** 1996 May;39(1):41–52

Molecular recognition by cholesterol esterase of active site ligands: structure–reactivity effects for inhibition by aryl carbamates and subsequent carbamylenzyme turnover. Feaster SR, et al. **Biochemistry** 1996 Dec 24; 35(51):16723–34

3N–methylbiphenylsulfonylurea and –carbamate substituted imidazo[4,5–b]pyridines. Potent antagonists of the ANG II AT1 receptors. Heitsch H, et al. **Bioorg Med Chem** 1997 Apr;5(4):673–8

Pharmacological evaluation of IQM–95,333, a highly selective CCKA receptor antagonist with anxiolytic–like activity in animal models. Ballaz S, et al. **Br J Pharmacol** 1997 Jun;121(4):759–67

Electrophysiological effects of CI–980, a tubulin binding agent, on guinea–pig papillary muscles. Pérez O, et al. **Br J Pharmacol** 1997 Jan;120(2):187–92

Ameliorating effects of SDZ ENA 713 on age–associated decreases in learning performance and brain choline acetyltransferase activity in rats. Ohara T, et al. **Brain Res Bull** 1997;43(1):39–42

The effects of D–23129, a new experimental anticonvulsant drug, on neurotransmitter amino acids in the rat hippocampus in vitro. Kapetanovic IM, et al. **Epilepsy Res** 1995 Nov;22(3):167–73

D–23129: a new anticonvulsant with a broad spectrum activity in animal models of epileptic seizures. Rostock A, et al. **Epilepsy Res** 1996 Apr;23(3):211–23

Effect of pentacaine and its derivatives on the contractile responses of smooth muscle in the guinea–pig stomach. Mai MP, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):305–12

D–23129: a potent anticonvulsant in the amygdala kindling model of complex partial seizures. Tober C, et al. **Eur J Pharmacol** 1996 May 15;303(3):163–9

Synthesis and local anesthetic activity—lipophilicity relationships for a homological series of phenylcarbamic acid esters. Note II. Gregáň F, et al. **Farmaco** 1996 Oct; 51(10):669–72

Effects of fenoxycarb on the secretory activity of the prothoracic glands in the fifth instar of the silkworm, Bombyx mori. Dedos SG, et al. **Gen Comp Endocrinol** 1996 Nov;104(2):213–24

Activity of juvenile hormone and juvenile hormone analogues on the growth of Trypanosoma cruzi. Stoka AM. **J Steroid Biochem Mol Biol** 1996 Dec;59(5–6):495–500

The effect of dithiocarbamates on neurotoxic action of 1–methyl–4–phenyl–1,2,3,6 tetrahydropyridine (MPTP) and on mitochondrial respiration chain. Bachurin SO, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):897–903

Clinical Trials. Referral resource Clinical trials using CI–980 (mivobulin isethionate). Wright J, et al. **Oncology (Huntingt)** 1997 May;11(5):643–4

Dissociation between the potency and reversibility of the insulinotropic action of two meglitinide analogues. Jijakli H, et al. **Pharmacol Res** 1996 Sep–Oct;34(3–4):105–8

Repaglinide preserves nutrient–stimulated biosynthetic activity in rat pancreatic islets. Viñambres C, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):83–5

NNC–19–1228 and NNC 22–0031, novel neuroleptics with a "mesolimbic–selective" behavioral profile. Nielsen EB, et al. **Psychopharmacology (Berl)** 1997 Jan;129(2):168–78

Cardiovascular collapse through non–cholinergic mechanism after intravenous injection of N–methylcarbamate insecticide in rabbits. Futagawa H, et al. **Toxicology** 1997 Feb 28;117(2–3):163–70

LF 08–0299 protects murine recipients of minor antigen disparate donor bone marrow from lethal graft–versus–host disease. Bruley–Rosset M, et al. **Transplant Proc** 1996 Dec; 28(6):3114–6

Tolerance in a rat cardiac allograft model after short–term treatment with LF 08–0299. Absence of clonal deletion and evidence of CD4+ suppressor cells. Andoins C, et al. **Transplantation** 1996 Dec 15;62(11):1543–9

In vitro glucuronidation of D–23129, a new anticonvulsant, by human liver microsomes and liver slices. McNeilly PJ, et al. **Xenobiotica** 1997 May;27(5):431–41

POISONING

Cardiac manifestations of acute carbamate and organophosphate poisoning. Saadeh AM, et al. **Heart** 1997 May;77(5):461–4

[Carbamate and organophosphate poisoning] Peduto VA, et al. **Minerva Anestesiol** 1996 Jan–Feb;62(1–2):33–54 (116 ref.) (Eng. Abstr.) **(Ita)**

THERAPEUTIC USE

Phase I trial and pharmacokinetics of the tubulin inhibitor 1069C85—a synthetic agent binding at the colchicine site designed to overcome multidrug resistance. Judson I, et al. **Br J Cancer** 1997;75(4):608–13

Modulation of insulin secretion in non–insulin–dependent diabetes mellitus by two novel oral hypoglycaemic agents, NN623 and A4166. Kikuchi M. **Diabet Med** 1996 Sep;13(9 Suppl 6):S151–5 (15 ref.)

Both CD45RC+ and negative CD4+ suppressor cells are present in the rat cardiac allograft LF 08–0299–induced tolerance model. Andoins C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1282–4

TOXICITY

Bioavailability and effect of pirimicarb on Daphnia magna in a laboratory freshwater/sediment system. Kusk KO. **Arch Environ Contam Toxicol** 1996 Aug;31(2):252–5

Studies on the mechanisms of tumorigenesis induced by polyetherurethanes in rats: leachable and biodegradable oligomers involving the diphenyl carbamate structure acted as an initiator on the transformation of Balb 3T3 cells. Tsuchiya T, et al. **J Biomed Mater Res** 1996 Jul; 31(3):299–303

Pharmacological activity and safety profile of P10358, a novel, orally active acetylcholinesterase inhibitor for Alzheimer's disease. Smith CP, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):710–20

In vivo chromosomal aberrations in bone marrow cells of rats treated with Marshal. Topaktaş M, et al. **Mutat Res** 1996 Dec 20;371(3–4):259–64

Inhibition of neurotoxic esterase in vitro by novel carbamates. Randall JC, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):173–8

CARBAMAZEPINE

Is carbamazepine a potential drug of abuse? Sullivan G, et al. **J Psychopharmacol (Oxf)** 1997;11(1):93–4

ADMINISTRATION & DOSAGE

Cerebellar ataxia in upper limbs triggered by addition of carbamazepine to lithium treatment. Manto MU, et al. **Acta Neurol Belg** 1996 Dec;96(4):316–7

In vitro dissolution profile comparison and IVIVR. Carbamazepine case. Sathe P, et al. **Adv Exp Med Biol** 1997;423:31–42

High doses of carbamazepine for refractory partial epilepsy. Borges Pereira C, et al. **Arq Neuropsiquiatr** 1996 Mar; 54(1):42–6

Adjunctive carbamazepine or lithium carbonate in therapy–resistant chronic schizophrenia [letter] Simhandl C, et al. **Can J Psychiatry** 1996 Jun;41(5):317

Carbamazepine levels in the hair of patients under long–term treatment: a preliminary study. Tsatsakis AM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):187–95

Intravenous carbamazepine: comparison of different parenteral formulations in a mouse model of convulsive status epilepticus. Löscher W, et al. **Epilepsia** 1997 Jan; 38(1):106–13

The effects of antiepileptic drugs on serum zinc and copper levels in children. Sözüer DT, et al. **J Basic Clin Physiol Pharmacol** 1995;6(3–4):265–9

Assessment of combined treatment in partial seizures by means of the N–1 design. Valdizán JR, et al. **J Child Neurol** 1996 Nov;11(6):492–4

Dosing strategies and time course of response to antimanic drugs. Bowden CL. **J Clin Psychiatry** 1996;57 Suppl 13:4–9; discussion 10–2 (44 ref.)

Cellulose acetate butyrate microparticles for controlled release of carbamazepine. Arnaud P, et al. **J Microencapsul** 1996 Jul–Aug;13(4):407–17

Neonatal diagnosis of Schwartz–Jampel syndrome with dramatic response to carbamazepine. Squires LA, et al. **Pediatr Neurol** 1996 Sep;15(2):172–4

ADVERSE EFFECTS

A quantitative study of daytime sleepiness induced by carbamazepine and add–on vigabatrin in epileptic patients. Bonanni E, et al. **Acta Neurol Scand** 1997 Apr;95(4):193–6

Motor impairments in children with epilepsy treated with carbamazepine. Braathen G, et al. **Acta Paediatr** 1997 Apr; 86(4):372–6

Mononucleosis–like illness as a manifestation of carbamazepine–induced anticonvulsant hypersensitivity syndrome. Maquiera E, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):87–8

Findings in children exposed in utero to phenytoin and carbamazepine monotherapy: independent effects of epilepsy and medications. Nulman I, et al. **Am J Med Genet** 1997 Jan 10;68(1):18–24

Outcome of children born to epileptic mothers treated with carbamazepine during pregnancy. Ornoy A, et al. **Arch Dis Child** 1996 Dec;75(6):517–20

Cerebellar atrophy decreases the threshold of carbamazepine toxicity in patients with chronic focal epilepsy. Specht U, et al. **Arch Neurol** 1997 Apr;54(4):427–31

Acute psychosis associated with abrupt withdrawal of carbamazepine following intoxication. Darbar D, et al. **Br J Clin Pract** 1996 Sep;50(6):350–1

Carbamazepine–related ejaculatory failure. Leris AC, et al. **Br J Urol** 1997 Mar;79(3):485

Pure red cell aplasia during carbamazepine monotherapy. Tagawa T, et al. **Brain Dev** 1997 Jun;19(4):300–2

Significantly higher plasma haloperidol level during cotreatment with carbamazepine may herald cardiac change [see comments] Iwahashi K. **Clin Neuropharmacol** 1996 Jun;19(3):267–70. Comment in: Clin Neuropharmacol 1997 Apr;20(2):179.

Carbamazepine–induced drug rashes: diagnostic value of patch tests depends on clinico–pathologic presentation. Puig L, et al. **Contact Dermatitis** 1996 Jun;34(6):435–7

Allergy to carbamazepine: parallel in vivo and in vitro detection. Troost RJ, et al. **Epilepsia** 1996 Nov; 37(11):1093–9

Carbamazepine and PIP–syndrome in temporal lobe epilepsy. Schmitz B, et al. **Epilepsy Res** 1995 Nov;22(3):215–20

Carbamazepine–phenprocoumon interaction. Böttcher T, et al. **Eur Neurol** 1997;38(2):132–3

Side effects from increased doses of carbamazepine on neuropsychological and posturographic parameters of humans. Delcker A, et al. **Eur Neuropsychopharmacol** 1997 Aug;7(3):213–8

The effect of chronic carbamazepine, valproic acid and phenytoin medication on the periodontal condition of epileptic children and adolescents. Galas–Zgorzalewicz B, et al. **Funct Neurol** 1996 Jul–Aug;11(4):187–93

Clinical case report: multiple idiosyncratic adverse effects of antiepileptic drugs in trisomy 9p. Gigli GL, et al. **Int J Neurosci** 1996 Nov;87(3–4):181–9

Cognitive performances in newly referred patients with temporal lobe epilepsy: comparison with normal subjects in basal condition and after treatment with controlled–release carbamazepine. Gigli GL, et al. **Int J Neurosci** 1996 Nov;88(1–2):97–107

Fixed drug eruption to three anticonvulsant drugs: an unusual case of polysensitivity. Chan HL, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):259

Carbamazepine induced sino–atrial block in a young adult [letter] Parihar PS, et al. **J Assoc Physicians India** 1996 Jun;44(6):431–2

Cutaneous eruptions as part of the "anticonvulsant hypersensitivity syndrome" [letter; comment] Knowles SR, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):263–4. Comment on: J Clin Psychopharmacol 1994 Dec;14(6):408–13.

Case 26–1996: hypersensitivity to carbamazepine [letter] Pichler WJ, et al. **N Engl J Med** 1997 Jan 30;336(5):377

Carbamazepine and fatal eosinophilic myocarditis [letter] Salzman MB, et al. **N Engl J Med** 1997 Mar 20; 336(12):878–9

Carbamazepine–associated acute tubulointerstitial nephritis. Eijgenraam JW, et al. **Neth J Med** 1997 Jan;50(1):25–8

Risk of serious cutaneous disorders after initiation of use of phenytoin, carbamazepine, or sodium valproate: a record linkage study. Tennis P, et al. **Neurology** 1997 Aug; 49(2):542–6

Carbamazepine–induced sinus node dysfunction. Johnson CD, et al. **P R Health Sci J** 1997 Mar;16(1):45–9 (37 ref.)

Carbamazepine–induced lymphadenopathy mimicking Ki–1 (CD30+) T–cell lymphoma. Yeo W, et al. **Pathology** 1997 Feb;29(1):64–6

Exfoliative dermatitis due to immunologically confirmed carbamazepine hypersensitivity. Troost RJ, et al. **Pediatr Dermatol** 1996 Jul–Aug;13(4):316–20

A possible case of carbamazepine induced pancreatitis. Forte A, et al. **Riv Eur Sci Med Farmacol** 1996 Sep–Dec; 18(5–6):187–9

Weight gain with valproate or carbamazepine—a reappraisal. Easter D, et al. **Seizure** 1997 Apr;6(2):121–5

Fetal malformations in an epileptic pregnant woman treated with carbamazepine. Ceci O, et al. **Zentralbl Gynakol** 1996; 118(3):169–71

[Anticonvulsive hypersensitivity syndrome (letter)] Stein J, et al. **Dtsch Med Wochenschr** 1997 Mar 7;122(10):314–5 **(Ger)**

[Changes in the blood picture with combination carbamazepine, perazine and antibiotic treatment] Volkmann GS, et al. **Psychiatr Prax** 1996 Nov;23(6):304–5 **(Ger)**

[Severe bradyarrythmia induced by tricyclic antidepressants in an elderly patient] Lebre AT, et al. **Rev Assoc Med Bras** 1995 Jul–Aug;41(4):271–3 (Eng. Abstr.) **(Por)**

[The effect of bemitil on the parameters of lipid peroxidation and nitrogen metabolism in epilepsy in children] Mikhallov IB, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):20–2 (Eng. Abstr.) **(Rus)**

[Pacemaker in bradycardias is sometimes not necessary. Seponation of carbamazepine should be considered] Kennebäck G. **Lakartidningen** 1997 Mar 12;94(11):947–8 (9 ref.) **(Swe)**

ANALOGS & DERIVATIVES

Fluctuations of 10-hydroxy-carbazepine during the day in epileptic patients. May TW, et al. **Acta Neurol Scand** 1996 Jun;93(6):393-7

Acute in vitro neuromuscular effects of carbamazepine and carbamazepine-10,11-epoxide. Nguyen A, et al. **Anesth Analg** 1997 Apr;84(4):886-90

Simultaneous determination of carbamazepine and carbamazepine 10,11-epoxide by using microcolumn HPLC: study of pharmacokinetics of carbamazepine in a volunteer. Alexishvili MM, et al. **Biomed Chromatogr** 1997 Jan-Feb;11(1):36-41

The distribution of 10-hydroxy carbazepine in blood compartments. Jung H, et al. **Biopharm Drug Dispos** 1997 Jan;18(1):17-23

Comparative effects of carbamazepine and carbamazepine-10,11-epoxide on hepatic cytochromes P450 in the rat. Panesar SK, et al. **Drug Metab Dispos** 1996 Jun;24(6):619-27

Pharmacokinetics of oxcarbazepine and carbamazepine in human placenta. Pienimäki P, et al. **Epilepsia** 1997 Mar; 38(3):309-16

A double-blind controlled clinical trial of oxcarbazepine versus phenytoin in adults with previously untreated epilepsy. Bill PA, et al. **Epilepsy Res** 1997 Jun;27(3):195-204

A double-blind controlled clinical trial: oxcarbazepine versus sodium valproate in adults with newly diagnosed epilepsy. Christe W, et al. **Epilepsy Res** 1997 Mar;26(3):451-60

A double-blind controlled clinical trial of oxcarbazepine versus phenytoin in children and adolescents with epilepsy. Guerreiro MM, et al. **Epilepsy Res** 1997 Jun;27(3):205-13

Metabolites and DNA-binding of carbamazepine and oxcarbazepine in vitro by rat liver microsomes. Castrén K, et al. **Hum Exp Toxicol** 1996 Jul;15(7):577-82

High-speed liquid chromatographic method for the monitoring of carbamazepine and its active metabolite, carbamazepine-10,11-epoxide, in human plasma. Chollet D, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30; 683(2):237-43

Improved detection and determination of carbamazepine and oxcarbazepine and their metabolites by high-performance liquid chromatography. Pienimäki P, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):97-105

Lack of influence of histopathological changes on carbamazepine and carbamazepine-10, 11-epoxide concentrations in the brain cortex of epileptic patients [published erratum appears in J Neurol Sci 1997 Apr 15;147(2):223-4] Schnabel R, et al. **J Neurol Sci** 1996 Sep 15;141(1-2):87-94

Teratogenicity of carbamazepine-10, 11-epoxide and oxcarbazepine in the SWV mouse. Bennett GD, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1237-42

Interindividual and interspecies variation in hepatic microsomal epoxide hydrolase activity: studies with cis-stilbene oxide, carbamazepine 10, 11-epoxide and naphthalene. Kitteringham NR, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1018-27

Pharmacokinetics of oxcarbazepine in the dog. Schicht S, et al. **J Vet Pharmacol Ther** 1996 Feb;19(1):27-31

Effect of carbamazepine, oxcarbazepine and lamotrigine on the increase in extracellular glutamate elicited by veratridine in rat cortex and striatum. Waldmeier PC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):164-72

A field potential analysis on the effects of lamotrigine, GP 47779, and felbamate in neocortical slices. Calabresi P, et al. **Neurology** 1996 Aug;47(2):557-62

Substituting carbamazepine with oxcarbazepine increases citalopram levels. A report on two cases. Leinonen E, et al. **Pharmacopsychiatry** 1996 Jul;29(4):156-8

Basic haematological parameters, serum gamma-glutamyl-transferase activity, and erythrocyte folate and serum vitamin B12 levels during carbamazepine and oxcarbazepine therapy. Isojärvi JI, et al. **Seizure** 1997 Jun;6(3):207-11

In vitro embryotoxicity of carbamazepine and carbamazepine-10, 11-epoxide. Hansen DK, et al. **Teratology** 1996 Jul;54(1):45-51

Optimized high-performance liquid chromatographic method for determination of lamotrigine in serum with concomitant determination of phenytoin, carbamazepine, and carbamazepine epoxide. Lensmeyer GL, et al. **Ther Drug Monit** 1997 Jun;19(3):292-300

Relationships between carbamazepine-diol, carbamazepine-epoxide, and carbamazepine total and free steady-state concentrations in epileptic patients: the influence of age, sex, and comedication. Svinarov DA, et al. **Ther Drug Monit** 1996 Dec;18(6):660-5

Carbamazepine: detection of another metabolite in serum, 9 hydroxymethyl-10-carbamoyl acridan. Wad N, et al. **Ther Drug Monit** 1997 Jun;19(3):314-7

ANALYSIS

Simultaneous determination of carbamazepine and carbamazepine 10,11-epoxide by using microcolumn HPLC: study of pharmacokinetics of carbamazepine in a volunteer. Alexishvili MM, et al. **Biomed Chromatogr** 1997 Jan-Feb;11(1):36-41

High-performance liquid chromatographic determination of carbamazepine and metabolites in human hair. Saris LA, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11; 691(2):409-15

Simultaneous determination of phenytoin and carbamazepine in human hair by high-performance liquid chromatography. Mei Z, et al. **Ther Drug Monit** 1997 Feb; 19(1):92-4

BLOOD

The effects of long-term anticonvulsive treatment on serum lipid profile. Yalçin E, et al. **Acta Paediatr Jpn** 1997 Jun; 39(3):342-5

Neuronal complexity loss in temporal lobe epilepsy: effects of carbamazepine on the dynamics of the epileptogenic focus. Lehnertz K, et al. **Electroencephalogr Clin Neurophysiol** 1997 Sep; 103(3):376-80

Effect of stiripentol on carbamazepine plasma concentration and metabolism in epileptic children. Tran A, et al. **Eur J Clin Pharmacol** 1996;50(6):497-500

High-speed liquid chromatographic method for the monitoring of carbamazepine and its active metabolite, carbamazepine-10,11-epoxide, in human plasma. Chollet D, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30; 683(2):237-43

Improved detection and determination of carbamazepine and oxcarbazepine and their metabolites by high-performance liquid chromatography. Pienimäki P, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):97-105

Simultaneous determination of carbamazepine and its metabolites in plasma from carbon tetrachloride-intoxicated rats using a new reversed-phase chromatographic column of 2-microns porous microspherical silica gel. Tanaka E. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):155-60

Displacement of valproic acid and carbamazepine from protein binding in normal and uremic sera by tolmetin, ibuprofen, and naproxen: presence of inhibitor in uremic serum that blocks valproic acid-naproxen interactions. Dasgupta A, et al. **Ther Drug Monit** 1996 Jun;18(3):284-7

Optimized high-performance liquid chromatographic method for determination of lamotrigine in serum with concomitant determination of phenytoin, carbamazepine, and carbamazepine epoxide. Lensmeyer GL, et al. **Ther Drug Monit** 1997 Jun;19(3):292-300

Relationships between carbamazepine-diol, carbamazepine-epoxide, and carbamazepine total and free steady-state concentrations in epileptic patients: the influence of age, sex, and comedication. Svinarov DA, et al. **Ther Drug Monit** 1996 Dec;18(6):660-5

[Correlation of carbamazepine levels in blood with clinical poisoning states, evaluated with the help of the APACHE II system and the Matthew coma scale] Feldman R, et al. **Przegl Lek** 1997;54(6):410-5 (Eng. Abstr.) **(Pol)**

CHEMISTRY

X-ray characterization of the triclinic polymorph of carbamazepine [letter] Ceolin R, et al. **J Pharm Sci** 1997 Sep;86(9):1062-5

Drug dissolution into micellar solutions: development of a convective diffusion model and comparison to the film equilibrium model with application to surfactant-facilitated dissolution of carbamazepine. Crison JR, et al. **J Pharm Sci** 1996 Sep;85(9):1005-11

Dissolution media for in vitro testing of water-insoluble drugs: effect of surfactant purity and electrolyte on in vitro dissolution of carbamazepine in aqueous solutions of sodium lauryl sulfate. Crison JR, et al. **J Pharm Sci** 1997 Mar; 86(3):384-8

Characterization of dihydrates prepared from carbamazepine polymorphs. McMahon LE, et al. **J Pharm Sci** 1996 Oct; 85(10):1064-9

METABOLISM

Characterization of carbamazepine metabolism in a mouse model of carbamazepine teratogenicity. Amore BM, et al. **Drug Metab Dispos** 1997 Aug;25(8):953-62

Protein-reactive metabolites of carbamazepine in mouse liver microsomes. Lillibridge JH, et al. **Drug Metab Dispos** 1996 May;24(5):509-14

Metabolites and DNA-binding of carbamazepine and oxcarbazepine in vitro by rat liver microsomes. Castrén K, et al. **Hum Exp Toxicol** 1996 Jul;15(7):577-82

PHARMACOKINETICS

In vitro dissolution profile comparison and IVIVR. Carbamazepine case. Sathe P, et al. **Adv Exp Med Biol** 1997;423:31-42

Comparative study of bioavailability and clinical efficacy of carbamazepine in epileptic patients. Silpakit O, et al. **Ann Pharmacother** 1997 May;31(5):548-52

Carbamazepine and L-type calcium channel inhibitors: a binding assay study. Ngan ET, et al. **Biol Psychiatry** 1996 Jun 1;39(11):979-81

Simultaneous determination of carbamazepine and carbamazepine 10,11-epoxide by using microcolumn HPLC: study of pharmacokinetics of carbamazepine in a volunteer. Alexishvili MM, et al. **Biomed Chromatogr** 1997 Jan-Feb;11(1):36-41

Steady state pharmacokinetics of carbamazepine-phenobarbital interaction in patients with epilepsy. Sennoune S, et al. **Biopharm Drug Dispos** 1996 Mar;17(2):155-64

The mechanism of the carbamazepine-valproate interaction in humans. Bernus I, et al. **Br J Clin Pharmacol** 1997 Jul; 44(1):21-7

Carbamazepine levels in the hair of patients under long-term treatment: a preliminary study. Tsatsakis AM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):187-95

Clinically significant pharmacokinetic drug interactions with carbamazepine. An update. Spina E, et al. **Clin Pharmacokinet** 1996 Sep;31(3):198-214 (214 ref.)

Mutual interaction between remacemide hydrochloride and carbamazepine: two drugs with active metabolites. Leach JP, et al. **Epilepsia** 1996 Nov;37(11):1100-6

Pharmacokinetics of oxcarbazepine and carbamazepine in human placenta. Pienimäki P, et al. **Epilepsia** 1997 Mar; 38(3):309-16

Dose-dependent metabolism of carbamazepine in humans. Bernus I, et al. **Epilepsy Res** 1996 Jul;24(3):163-72

Pharmacokinetics of carbamazepine derived from a new tablet formulation. Popović J, et al. **Eur J Drug Metab Pharmacokinet** 1995 Oct-Dec; 20(4):297-300

Hair analysis as a potential index of therapeutic compliance in the treatment of epilepsy. Williams J, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):113-22

Detection of carbamazepine drug interaction by multiple peak approach screening using routine clinical pharmacokinetic data. Yukawa E, et al. **J Clin Pharmacol** 1996 Aug;36(8):752-9

Intravenous and oral pharmacokinetic evaluation of a 2-hydroxypropyl-beta-cyclodextrin-based formulation of carbamazepine in the dog: comparison with commercially available tablets and suspensions. Brewster ME, et al. **J Pharm Sci** 1997 Mar;86(3):335-9

Clinical pharmacokinetics of carbamazepine and valproate in children and adolescents with epilepsy. Galas-Zgorzalewicz B, et al. **Neurol Neurochir Pol** 1996; 30 Suppl 2:49-54

Carbamazepine population pharmacokinetics in children: mixed-effect models. Delgado Iribarnegaray MF, et al. **Ther Drug Monit** 1997 Apr;19(2):132-9

[Pharmacokinetic variations in anticonvulsants in Mexican epileptic women during different stages of the postpartum period] Belmont-Gomez A, et al. **Ginecol Obstet Mex** 1997 May;65:163-6 (Eng. Abstr.) **(Spa)**

PHARMACOLOGY

Acute in vitro neuromuscular effects of carbamazepine and carbamazepine-10,11-epoxide. Nguyen A, et al. **Anesth Analg** 1997 Apr;84(4):886-90

Combined valproate or carbamazepine and electroconvulsive therapy. Zarate CA Jr, et al. **Ann Clin Psychiatry** 1997 Mar;9(1):19-25

Carbamazepine inhibits the potentiation by adenosine analogues of agonist induced inositolphosphate formation in hippocampal astrocyte cultures. Biber K, et al. **Biol Psychiatry** 1996 Oct 1;40(7):563-7

Chronic carbamazepine therapy does not influence mivacurium-induced neuromuscular block. Spacek A, et al. **Br J Anaesth** 1996 Oct;77(4):500-2

Comparative effects of carbamazepine and carbamazepine-10,11-epoxide on hepatic cytochromes P450 in the rat. Panesar SK, et al. **Drug Metab Dispos** 1996 Jun;24(6):619-27

Effects of carbamazepine on cortical excitatory and inhibitory phenomena: a study with paired transcranial magnetic stimulation. Schulze-Bonhage A, et al. **Electroencephalogr Clin Neurophysiol** 1996 Sep; 99(3):267-73

Biphasic effects of carbamazepine on the dopaminergic system in rat striatum and hippocampus. Okada M, et al. **Epilepsy Res** 1997 Sep;28(2):143-53

Anticonvulsant drug effects on spontaneous thalamocortical rhythms in vitro: phenytoin, carbamazepine, and phenobarbital. Zhang YF, et al. **Epilepsy Res** 1996 Feb; 23(1):55-70

Interaction between carbamazepine and bromperidol. Otani K, et al. **Eur J Clin Pharmacol** 1997;52(3):219-22

Selective liver enzyme induction by carbamazepine and phenytoin in Chinese epileptics. Tomlinson B, et al. **Eur J Clin Pharmacol** 1996;50(5):411-5

Serum lipids in epileptic children treated with carbamazepine and valproate. Sözüer DT, et al. **Eur J Pediatr** 1997 Jul; 156(7):565-7

Carbamazepine exerts anti-inflammatory effects in the rat. Bianchi M, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):71-4

Carbamazepine normalizes the altered behavioral and neurochemical response to stress in benzodiazepine-withdrawn rats. Martijena ID, et al. **Eur J Pharmacol** 1997 Jul 9;330(2-3):101-8

Determination of the effects of caffeine and carbamazepine on striatal dopamine release by in vivo microdialysis. Okada M, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):181-8

Mood stabilizers have differential effects on endogenous ADP ribosylation in C6 glioma cells. Young LT, et al. **Eur J Pharmacol** 1996 Aug 8;309(2):215-8

Lithium compared to valproic acid and carbamazepine in the treatment of mania: a statistical meta-analysis. Emilien G, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):245-52

Altered protein phosphorylation in the rat brain following chronic lithium and carbamazepine treatments. Jensen JB, et al. **Eur Neuropsychopharmacol** 1997 Aug;7(3):173-9

Effects of carbamazepine on membrane properties of rat sensory spinal ganglion cells in vitro. Schirrmacher K, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):501–7

Carbamazepine affects neutrophil function through an action on peripheral benzodiazepine receptors. Caldiroli E, et al. **Immunopharmacol Immunotoxicol** 1997 Aug;19(3):367–82

Immunodepression induced by carbamazepine administration is mediated by CD 8+ spleen T cells. Andrade-Mena CE. **Int J Tissue React** 1996;18(2–3):81–5

Myristoylated alanine-rich C kinase substrate (MARCKS): a molecular target for the therapeutic action of mood stabilizers in the brain? Lenox RH, et al. **J Clin Psychiatry** 1996;57 Suppl 13:23–31; discussion 32–3

Regulation of signal transduction pathways by mood-stabilizing agents: implications for the delayed onset of therapeutic efficacy. Manji HK, et al. **J Clin Psychiatry** 1996;57 Suppl 13:34–46; discussion 47–8 (109 ref.)

Attenuation of cyclic AMP production by carbamazepine. Chen G, et al. **J Neurochem** 1996 Nov;67(5):2079–86

Lack of influence of histopathological changes on carbamazepine and carbamazepine-10, 11-epoxide concentrations in the brain cortex of epileptic patients [published erratum appears in J Neurol Sci 1997 Apr 15;147(2):223–4] Schnabel R, et al. **J Neurol Sci** 1996 Sep 15;141(1–2):87–94

Carbamazepine inhibition of neuronal Na+ currents: quantitative distinction from phenytoin and possible therapeutic implications. Kuo CC, et al. **Mol Pharmacol** 1997 Jun;51(6):1077–83

Effect of carbamazepine, oxcarbazepine and lamotrigine on the increase in extracellular glutamate elicited by veratridine in rat cortex and striatum. Waldmeier PC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):164–72

Effects of carbamazepine and sodium valproate on 5-HT-induced calcium increase in individual C6 rat glioma cells. Yamaji T, et al. **Neuropsychobiology** 1996;34(1):22–5

Effects of lithium and carbamazepine on thyroid hormone metabolism in rat brain. Baumgartner A, et al. **Neuropsychopharmacology** 1997 Jan;16(1):25–41

Inflammation reveals inhibition of noxious responses of rat spinal neurones by carbamazepine. Chapman V, et al. **Neuroreport** 1997 Apr 14;8(6):1399–404

Anticonvulsant doses of carbamazepine increase hippocampal extracellular serotonin in genetically epilepsy-prone rats: dose response relationships. Dailey JW, et al. **Neurosci Lett** 1997 May 9;227(1):13–6

Phenytoin and carbamazepine: differential inhibition of sodium currents in small cells from adult rat dorsal root ganglia. Rush AM, et al. **Neurosci Lett** 1997 Apr 25; 226(2):95–8

Effects of carbamazepine treatment on pain threshold values and brain serotonin levels in rats. Pinelli A, et al. **Pharmacology** 1997 Mar;54(3):113–7

Effect of carbamazepine on the pharmacokinetics of promazine. Syrek M, et al. **Pol J Pharmacol** 1996 Nov-Dec; 48(6):601–8

The effects of antiepileptic drugs on cognition in normal volunteers. Akaho R. **Psychiatry Clin Neurosci** 1996 Apr; 50(2):61–9

[Effects of carbamazepine and zonisamide on acetylcholine levels in rat striatum] Mizuno K. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Feb; 17(1):17–23 (Eng. Abstr.) **(Jpn)**

[Effect of phenytoin and carbamazepine on evoked potentials in patients with newly diagnosed epilepsy. Part II. Brainstem auditory evoked potentials] Rysz A, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):971–9 (Eng. Abstr.) **(Pol)**

[Effect of phenytoin and carbamazepine on evoked potentials in patients with newly diagnosed epilepsy. Part I. Visual evoked potentials] Rysz A, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):961–9 (Eng. Abstr.) **(Pol)**

[Antiepileptic drugs: mechanism of action] Mercadé Cerdá JM. **Neurologia** 1996 Dec;11 Suppl 4:93–9 (31 ref.) (Eng. Abstr.) **(Spa)**

POISONING

Carbamazepine poisoning in adolescent suicide attempters. Effectiveness of multiple-dose activated charcoal in enhancing carbamazepine elimination. Montoya-Cabrera MA, et al. **Arch Med Res** 1996 Winter;27(4):485–9

[Correlation of carbamazepine levels in blood with clinical poisoning states, evaluated with the help of the APACHE II system and the Matthew coma scale] Feldman R, et al. **Przegl Lek** 1997;54(6):410–5 (Eng. Abstr.) **(Pol)**

THERAPEUTIC USE

Plasma tryptophan levels in children with epilepsy before and after antiepileptic treatment. Milovanovic DD, et al. **Adv Exp Med Biol** 1996;398:103–6

A double-blind, placebo-controlled pilot study of carbamazepine for the treatment of alcohol dependence. Mueller TI, et al. **Alcohol Clin Exp Res** 1997 Feb; 21(1):86–92

Comparative study of bioavailability and clinical efficacy of carbamazepine in epileptic patients. Silpakit O, et al. **Ann Pharmacother** 1997 May;31(5):548–52

Treatment of Koro and panic attacks after stroke. Dantendorfer K, et al. **Anxiety** 1996;2(1):53–5

Lithium therapy in the treatment of manic-depressive illness. Present status and future perspectives. A critical review. Emilien G, et al. **Arch Int Pharmacodyn Ther** 1995 Nov-Dec;330(3):251–78 (137 ref.)

Nortriptyline-fluphenazine vs. carbamazepine in the symptomatic treatment of diabetic neuropathy. Gómez-Pérez FJ, et al. **Arch Med Res** 1996 Winter; 27(4):525–9

Early treatment of a single generalized tonic-clonic seizure to prevent recurrence. Gilad R, et al. **Arch Neurol** 1996 Nov;53(11):1149–52

Cerebellar atrophy decreases the threshold of carbamazepine toxicity in patients with chronic focal epilepsy. Specht U, et al. **Arch Neurol** 1997 Apr;54(4):427–31

Treatment of bipolar depression with carbamazepine: results of an open study. Dilsaver SC, et al. **Biol Psychiatry** 1996 Nov 1;40(9):935–7

National Institute of Mental Health Workshop Report on the Treatment of Bipolar Disorder. Prien RF, et al. **Biol Psychiatry** 1996 Aug 1;40(3):215–20

Carbamazepine treatment induces the CYP3A4 catalysed sulphoxidation of omeprazole, but has no or less effect on hydroxylation via CYP2C19. Bertilsson L, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):186–9

Double dummy comparison between once and twice daily dosing with modified-release carbamazepine in epileptic patients. McKee PJ, et al. **Br J Clin Pharmacol** 1993 Sep; 36(3):257–61

The diagnosis and treatment of mania in the elderly. McDonald WM, et al. **Bull Menninger Clin** 1996 Spring; 60(2):174–96 (136 ref.)

Response to Iwashashi: "significantly higher plasma haloperidol level during cotreatment with carbamazepine may herald cardiac change" [letter; comment] Zuiderwijk PB, et al. **Clin Neuropharmacol** 1997 Apr;20(2):179. Comment on: Clin Neuropharmacol 1996 Jun;19(3):267–70.

A randomized double-blind study of carbamazepine in the treatment of cocaine abuse. Halikas JA, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):89–105

Nocturnal sleep and daytime somnolence in untreated patients with temporal lobe epilepsy: changes after treatment with controlled-release carbamazepine. Gigli GL, et al. **Epilepsia** 1997 Jun;38(6):696–701

Effects of high-dose antiepileptic drugs on event-related potentials in epileptic children. Enoki H, et al. **Epilepsy Res** 1996 Sep;25(1):59–64

Vigabatrin and carbamazepine have different efficacies in the prevention of status epilepticus induced neuronal damage in the hippocampus and amygdala. Pitkänen A, et al. **Epilepsy Res** 1996 May;24(1):29–45

A randomised open multicentre comparative trial of lamotrigine and carbamazepine as monotherapy in patients with newly diagnosed or recurrent epilepsy. Reunanen M, et al. **Epilepsy Res** 1996 Mar;23(2):149–55

Vigabatrin vs. carbamazepine monotherapy in newly diagnosed focal epilepsy: a randomized response conditional cross-over study. Tanganelli P, et al. **Epilepsy Res** 1996 Nov;25(3):257–62

Lithium vs carbamazepine in the maintenance treatment of schizoaffective disorder: a randomised study. Greil W, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(1):42–50

Cognitive performances in newly referred patients with temporal lobe epilepsy: comparison with normal subjects in basal condition and after treatment with controlled-release carbamazepine. Gigli GL, et al. **Int J Neurosci** 1996 Nov;88(1–2):97–107

Lithium versus carbamazepine in the maintenance treatment of bipolar disorders--a randomised study. Greil W, et al. **J Affect Disord** 1997 Apr;43(2):151–61

Carbamazepine in aggressive children with conduct disorder: a double-blind and placebo-controlled study. Cueva JE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Apr; 35(4):480–90

Carbamazepine use in children and adolescents with features of attention-deficit hyperactivity disorder: a meta-analysis. Silva RR, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):352–8

Carbamazepine trial for Lesch-Nyhan self-mutilation. Roach ES, et al. **J Child Neurol** 1996 Nov;11(6):476–8

Treatment of neonatal seizures with carbamazepine. Singh B, et al. **J Child Neurol** 1996 Sep;11(5):378–82

Health-economic implications of the onset of action of antimanic agents. Keck PE Jr, et al. **J Clin Psychiatry** 1996; 57 Suppl 13:13–8; discussion 19–22 (53 ref.)

Myristoylated alanine-rich C kinase substrate (MARCKS): a molecular target for the therapeutic action of mood stabilizers in the brain? Lenox RH, et al. **J Clin Psychiatry** 1996;57 Suppl 13:23–31; discussion 32–3

Resolution of palinopsia with carbamazepine [letter] Silva JA, et al. **J Clin Psychiatry** 1997 Jan;58(1):30

Differential effect of carbamazepine and valproate monotherapy on plasma levels of oestrone sulphate and dehydroepiandrosterone sulphate in male epileptic patients. Geisler J, et al. **J Endocrinol** 1997 May;153(2):307–12

The use of anticonvulsants in posttraumatic stress disorder: case study and overview. Ford N. **J Trauma Stress** 1996 Oct;9(4):857–63

Resistance to rocuronium in an epileptic patient on long-term carbamazepine therapy--a case report. Baraka A, et al. **Middle East J Anesthesiol** 1996 Oct;13(6):561–4

Accidental success with carbamazepine for psoriatic erythroderma [letter] Smith KJ, et al. **N Engl J Med** 1996 Dec 26;335(26):1999–2000

Exquisite sensitivity of paroxysmal kinesigenic choreoathetosis to carbamazepine [see comments] Wein T, et al. **Neurology** 1996 Oct;47(4):1104–6. Comment in: Neurology 1997 Aug;49(2):642.

Carbamazepine and myoclonus in SSPE subacute sclerosing panencephalitis. Hayashi T, et al. **Pediatr Neurol** 1996 May; 14(4):346

Intracerebroventricular pertussis toxin enhances sensitivity to chemical convulsants and decreases the protective efficacy of carbamazepine in mice. Korolkiewicz R, et al. **Pharmacol Res** 1996 Mar;33(3):211–5

Substituting carbamazepine with oxcarbazepine increases citalopram levels. A report on two cases. Leinonen E, et al. **Pharmacopsychiatry** 1996 Jul;29(4):156–8

Polypharmacy in bipolar I disorder. Solomon DA, et al. **Psychopharmacol Bull** 1996;32(4):579–87 (45 ref.)

The place of anticonvulsant therapy in bipolar illness. Post RM, et al. **Psychopharmacology (Berl)** 1996 Nov; 128(2):115–29 (160 ref.)

Basic haematological parameters, serum gamma-glutamyl-transferase activity, and erythrocyte folate and serum vitamin B12 levels during carbamazepine and oxcarbazepine therapy. Isojärvi JI, et al. **Seizure** 1997 Jun;6(3):207–11

Carbamazepine as a treatment for cataplexy. Vaughn BV, et al. **Sleep** 1996 Feb;19(2):101–3

[Successful carbamazepine therapy of 2 cases of music hallucinations] Gertz HJ, et al. **Nervenarzt** 1996 May; 67(5):387–9 (Eng. Abstr.) **(Ger)**

[Benzodiazepine withdrawal with carbamazepine] Kaendler SH, et al. **Nervenarzt** 1996 May;67(5):381–6 (Eng. Abstr.) **(Ger)**

[Trigeminal neuralgia and other facial pain--diagnosis and therapy] Siegfried J. **Ther Umsch** 1997 Feb;54(2):83–6 (Eng. Abstr.) **(Ger)**

[Open randomized comparative trial of sodium valproate and carbamazepine in adult onset epilepsy] Czapiński P, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):419–26 (Eng. Abstr.) **(Pol)**

[Effect of phenytoin and carbamazepine on evoked potentials in patients with newly diagnosed epilepsy. Part II. Brainstem auditory evoked potentials] Rysz A, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):971–9 (Eng. Abstr.) **(Pol)**

[Effect of phenytoin and carbamazepine on evoked potentials in patients with newly diagnosed epilepsy. Part I. Visual evoked potentials] Rysz A, et al. **Neurol Neurochir Pol** 1996 Nov-Dec;30(6):961–9 (Eng. Abstr.) **(Pol)**

[The effect of lamotrigine and carbamazepine on the development of the audiogenic seizure reaction in rats of the Krushinskiĭ-Molodkina strain] Fedotova IB, et al. **Eksp Klin Farmakol** 1996 Nov-Dec;59(6):6–9 (Eng. Abstr.) **(Rus)**

[The diagnosis and treatment of partial epilepsy in childhood and adolescence] Martínez Bermejo Z, et al. **Neurologia** 1996 Dec;11 Suppl 4:58–71 (178 ref.) (Eng. Abstr.) **(Spa)**

[Treatment of neurological complications: cerebral edema and epileptic seizures] Vivancos Mora J. **Neurologia** 1995 Dec;10 Suppl 2:23–9 (67 ref.) (Eng. Abstr.) **(Spa)**

[Neonatal seizures: the beginning and interruption of the treatment] Koenigsberger MR, et al. **Rev Neurol** 1997 May; 25(141):706–8 (28 ref.) (Eng. Abstr.) **(Spa)**

[The treatment of atypical manias with finlepsin-retard] Dziub HK, et al. **Lik Sprava** 1996 Jan-Feb;(1–2):146–8 (Eng. Abstr.) **(Ukr)**

TOXICITY

Carbamazepine induction of apoptosis in cultured cerebellar neurons: effects of N-methyl-D-aspartate, aurintricarboxylic acid and cycloheximide. Gao XM, et al. **Brain Res** 1995 Dec 12;703(1–2):63–71

The use of transgenic cell lines for evaluating toxic metabolites of carbamazepine. Valentine CR, et al. **Cell Biol Toxicol** 1996 Jun;12(3):155–65

In vitro embryotoxicity of carbamazepine and carbamazepine-10, 11-epoxide. Hansen DK, et al. **Teratology** 1996 Jul;54(1):45–51

URINE

Characterization of the metabolites of carbamazepine in patient urine by liquid chromatography/mass spectrometry. Maggs JL, et al. **Drug Metab Dispos** 1997 Mar;25(3):275–80

CARBAMAZINE see **DIETHYLCARBAMAZINE**

CARBAMOYLASPARTIC DEHYDRASE see **DIHYDROOROTASE**

CARBAMYL PHOSPHATE

METABOLISM

Carbamylation of erythrocyte membrane proteins: an in vitro and in vivo study. Trepanier DJ, et al. **Clin Biochem** 1996 Aug;29(4):347–55

Carbamylation of erythrocyte membrane aminophospholipids: an in vitro and in vivo study. Trepanier DJ, et al. **Clin Biochem** 1996 Aug;29(4):333–45

CARBAMYL PHOSPHATE SYNTHASE (AMMONIA)

BLOOD

Enzyme-linked immunosorbent assay of carbamoylphosphate synthetase I: plasma enzyme in rat experimental hepatitis and its clearance. Ozaki M, et al. **Enzyme Protein** 1994-95; 48(4):213-21

DEFICIENCY

Focal glycogenosis of the liver in disorders of ureagenesis: its occurrence and diagnostic significance. Badizadegan K, et al. **Hepatology** 1997 Aug;26(2):365-73

GENETICS

Role for the Rana catesbeiana homologue of C/EBP alpha in the reprogramming of gene expression in the liver of metamorphosing tadpoles. Chen Y, et al. **Dev Genet** 1997; 20(2):152-62

Long-chain fatty acids suppress the induction of urea cycle enzyme genes by glucocorticoid action. Tomomura M, et al. **FEBS Lett** 1996 Dec 16;399(3):310-2

The upstream regulatory region of the carbamoyl-phosphate synthetase I gene controls its tissue-specific, developmental, and hormonal regulation in vivo. Christoffels VM, et al. **J Biol Chem** 1996 Dec 6; 271(49):31243-50

Phylogenetic analysis of carbamoylphosphate synthetase genes: complex evolutionary history includes an internal duplication within a gene which can root the tree of life. Lawson FS, et al. **Mol Biol Evol** 1996 Sep;13(7):970-7

METABOLISM

Trapping an activated conformation of mammalian carbamyl-phosphate synthetase. Guy HI, et al. **J Biol Chem** 1997 Aug 8;272(32):19906-12

CARBAMYL PHOSPHATE SYNTHASE (GLUTAMINE)

CHEMISTRY

Comparison of the functional differences for the homologous residues within the carboxy phosphate and carbamate domains of carbamoyl phosphate synthetase. Javid-Majd F, et al. **Biochemistry** 1996 Nov 12;35(45):14362-9

Role of conserved residues within the carboxy phosphate domain of carbamoyl phosphate synthetase. Stapleton MA, et al. **Biochemistry** 1996 Nov 12;35(45):14352-61

Structure of carbamoyl phosphate synthetase: a journey of 96 A from substrate to product. Thoden JB, et al. **Biochemistry** 1997 May 27;36(21):6305-16

Identification of critical amino acid residues of Saccharomyces cerevisiae carbamoyl-phosphate synthetase: definition of the ATP site involved in carboxy-phosphate formation. Zheng W, et al. **Biochim Biophys Acta** 1997 Aug 15;1341(1):35-48

Site-directed substitution of Ser1406 of hamster CAD with glutamic acid alters allosteric regulation of carbamyl phosphate synthetase II. Banerjei LC, et al. **Somat Cell Mol Genet** 1997 Jan;23(1):37-49

GENETICS

Arginine biosynthesis and regulation in Lactobacillus plantarum: the carA gene and the argCJBDF cluster are divergently transcribed. Bringel F, et al. **J Bacteriol** 1997 Apr;179(8):2697-706

Inhibition of Plasmodium falciparum proliferation in vitro by ribozymes. Flores MV, et al. **J Biol Chem** 1997 Jul 4; 272(27):16940-5

Expression of carbamoyl-phosphate synthetase III mRNA during the early stages of development and in muscle of adult rainbow trout (Oncorhynchus mykiss). Korte JJ, et al. **J Biol Chem** 1997 Mar 7;272(10):6270-7

The promoter region of the carbamoyl-phosphate synthetase III gene of Squalus acanthias. Hong J, et al. **J Mol Evol** 1996 Dec;43(6):602-9

Phylogenetic analysis of carbamoylphosphate synthetase genes: complex evolutionary history includes an internal duplication within a gene which can root the tree of life. Lawson FS, et al. **Mol Biol Evol** 1996 Sep;13(7):970-7

Myc versus USF: discrimination at the cad gene is determined by core promoter elements. Boyd KE, et al. **Mol Cell Biol** 1997 May;17(5):2529-37

Multiple mechanisms of N-phosphonacetyl-L-aspartate resistance in human cell lines: carbamyl-P synthetase/aspartate transcarbamylase/dihydro-orotase gene amplification is frequent only when chromosome 2 is rearranged. Smith KA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1816-21

METABOLISM

Identification of critical amino acid residues of Saccharomyces cerevisiae carbamoyl-phosphate synthetase: definition of the ATP site involved in carboxy-phosphate formation. Zheng W, et al. **Biochim Biophys Acta** 1997 Aug 15;1341(1):35-48

Trapping an activated conformation of mammalian carbamyl-phosphate synthetase. Guy HI, et al. **J Biol Chem** 1997 Aug 8;272(32):19906-12

Activation by fusion of the glutaminase and synthetase subunits of Escherichia coli carbamyl-phosphate synthetase. Guy HI, et al. **J Biol Chem** 1997 Aug 8; 272(32):19913-8

The promoter region of the carbamoyl-phosphate synthetase III gene of Squalus acanthias. Hong J, et al. **J Mol Evol** 1996 Dec;43(6):602-9

CARBAMYLCHOLINE see **CARBACHOL**

CARBANILIDES

PHARMACOLOGY

Irgasan DP 300 (5-chloro-2-(2,4-dichlorophenoxy)-phenol) induces cytochrome P450s and inhibits haem biosynthesis in rat hepatocytes cultured on Matrigel. Jinno H, et al. **Xenobiotica** 1997 Jul;27(7):681-92

CARBAPENEMS

Increasing incidence of carbapenem-resistant Pseudomonas aeruginosa bacteraemia in a cancer centre over a seven-year period [letter] Spanik S, et al. **J Hosp Infect** 1997 Mar;35(3):250-1

Challenges in the management of serious infections in pediatric patients. Adam D. **Pediatr Infect Dis J** 1996 Aug; 15(8):729-32 (23 ref.)

ADMINISTRATION & DOSAGE

Antimicrobial effects of continuous versus intermittent administration of carbapenem antibiotics in an in vitro dynamic model. Keil S, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1215-9

ADVERSE EFFECTS

Neurotoxicity of carbapenem antibacterials. Norrby SR. **Drug Saf** 1996 Aug;15(2):87-90 (33 ref.)

ANALYSIS

High-performance liquid chromatographic separation of beta-methyl ADC-13 enolphosphate diphenyl ester and its alpha-methyl diastereomer. Wang T. **J Chromatogr A** 1997 Feb 21;762(1-2):327-33

Determination of a new carbapenem derivative, DA-1131, in plasma and urine by high-performance liquid chromatography. Kim SH, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):95-9

Liquid chromatographic analysis of penem antibiotic FCE22101 in biological fluids with a liquid-liquid extraction procedure. Matsuoka M, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):273-9

BIOSYNTHESIS

Analysis of bacterial carbapenem antibiotic production genes reveals a novel beta-lactam biosynthesis pathway. McGowan SJ, et al. **Mol Microbiol** 1996 Nov;22(3):415-26

BLOOD

High-performance liquid chromatographic assay for meropenem in serum. Elkhaïli H, et al. **J Chromatogr B Biomed Appl** 1996 Nov 8;686(1):19-26

CHEMICAL SYNTHESIS

Synthesis and antibacterial activity of 1-beta-methylcarbapenem having a 1,3-diazabicyclo[3.3.0]octan-4-one moiety. Nam KH, et al. **Arch Pharm (Weinheim)** 1996 Oct;329(10):443-6

Synthesis and biological properties of a new series of anti-MRSA beta-lactams; 2-(thiazol-2-ylthio)carbapenems. Shinagawa H, et al. **Bioorg Med Chem** 1997 Mar;5(3):601-21

Novel C-2 substituted carbapenem derivatives. Part I. Synthesis and biological activity of non-aromatic heterocyclic derivatives. Burton G, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1258-65

Novel C-2 substituted carbapenem derivatives. Part II. Synthesis and structure-activity relationships of isoxazolin-2-yl, isoxazolidin-2-yl and 2-pyrazolin-2-yl carbapenems generated using 1,3-dipolar cycloaddition chemistry. Burton G, et al. **J Antibiot (Tokyo)** 1996 Dec; 49(12):1266-74

Synthesis and structure-activity relationships of a novel oral carbapenem, CS-834. Miyauchi M, et al. **J Antibiot (Tokyo)** 1997 May;50(5):429-39

Stereospecific synthesis of a 1 beta-methylcarbapenem intermediate. Oda K, et al. **J Antibiot (Tokyo)** 1997 May; 50(5):446-8

Novel C-2 substituted carbapenem derivatives. Part III. Synthesis and biological activity of 2-(functionalised ethenyl, oxyiminomethyl and alpha-[hydroxy]benzyl)-carbapenems. Clear NJ, et al. **Jpn J Antibiot** 1997 Mar;50(3):237-45

CHEMISTRY

Studies on the synthesis and structure-activity relationships of 2-(2-functionalized pyrrolidin-4-ylthio)-1 beta-methylcarbapenems. Lee HW, et al. **Chem Pharm Bull (Tokyo)** 1996 Dec;44(12):2326-30

Structure-activity relationships of carbapenem compounds to anti-Haemophilus influenzae activity and affinity for penicillin-binding proteins. Effect of 1 beta-methyl group and C-2 side chain. Kanazawa K, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):162-8

Synthesis and structure-activity relationships of a novel oral carbapenem, CS-834. Miyauchi M, et al. **J Antibiot (Tokyo)** 1997 May;50(5):429-39

METABOLISM

Carbapenem-hydrolyzing beta-lactamases. Rasmussen BA, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):223-32 (88 ref.)

Biochemical characterization of the carbapenem-hydrolyzing beta-lactamase AsbM1 from Aeromonas sobria AER 14M: a member of a novel subgroup of metallo-beta-lactamases. Yang Y, et al. **FEMS Microbiol Lett** 1996 Apr 1; 137(2-3):193-200

Affinities of BO-2727 for bacterial penicillin-binding proteins and morphological change of gram-negative rods. Hashizume T, et al. **J Antibiot (Tokyo)** 1997 Feb; 50(2):139-42

Acquired carbapenemases. Livermore DM. **J Antimicrob Chemother** 1997 Jun;39(6):673-6 (32 ref.)

Comparative stability of carbapenem and penem antibiotics to human recombinant dehydropeptidase-I [letter] Mori M, et al. **J Antimicrob Chemother** 1996 May;37(5):1034-6

Diffusion of carbapenems through the outer membrane of enterobacteriaceae and correlation of their activities with their periplasmic concentrations. Cornaglia G, et al. **Microb Drug Resist** 1996 Summer;2(2):273-6

A disulfide bridge near the active site of carbapenem-hydrolyzing class A beta-lactamases might explain their unusual substrate profile. Raquet X, et al. **Proteins** 1997 Jan;27(1):47-58

PHARMACOKINETICS

Pharmacokinetics of L-749,345, a long-acting carbapenem antibiotic, in primates. Sundelof JG, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1743-8

Determination of a new carbapenem derivative, DA-1131, in plasma and urine by high-performance liquid chromatography. Kim SH, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):95-9

Pharmacokinetic determinants of carbapenem therapy in neonates and children. Blumer JL. **Pediatr Infect Dis J** 1996 Aug;15(8):733-7 (24 ref.)

Determination of a new carbapenem antibiotic, DA-1131, in rat plasma, urine, and bile by column-switching high-performance liquid chromatography. Lee ED, et al. **Res Commun Mol Pathol Pharmacol** 1996 Nov;94(2):171-80

PHARMACOLOGY

Bacterial resistance to carbapenems. Livermore DM. **Adv Exp Med Biol** 1995;390:25-47 (80 ref.)

Imipenem resistance in Klebsiella pneumoniae is associated with the combination of ACT-1, a plasmid-mediated AmpC beta-lactamase, and the foss of an outer membrane protein. Bradford PA, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):563-9

Comparative in vitro activities of carbapenem L-749,345 and other antimicrobials against multiresistant gram-negative clinical pathogens. Jacoby G, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1830-1

In vitro and in vivo antibacterial activities of ER-35786, a new antipseudomonal carbapenem. Ohba F, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):298-307

Antimicrobial activity of DU-6681a, a parent compound of novel oral carbapenem DZ-2640. Tanaka M, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1260-8

Differential release of smooth-type lipopolysaccharide from Pseudomonas aeruginosa treated with carbapenem antibiotics and its relation to production of tumor necrosis factor alpha and nitric oxide. Yokochi T, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2410-2

Synthesis and antibacterial activity of 1-beta-methylcarbapenem having a 1,3-diazabicyclo[3.3.0]octan-4-one moiety. Nam KH, et al. **Arch Pharm (Weinheim)** 1996 Oct;329(10):443-6

Comparison of postantibiotic effects of imipenem and netilmicin alone and in combination against Pseudomonas aeruginosa. Hoštacká A. **Arzneimittelforschung** 1997 Aug; 47(8):965-7

Novel C-2 substituted carbapenem derivatives. Part II. Synthesis and structure-activity relationships of isoxazolin-2-yl, isoxazolidin-2-yl and 2-pyrazolin-2-yl carbapenems generated using 1,3-dipolar cycloaddition chemistry. Burton G, et al. **J Antibiot (Tokyo)** 1996 Dec; 49(12):1266-74

Novel C-2 substituted carbapenem derivatives. Part I. Synthesis and biological activity of non-aromatic heterocyclic derivatives. Burton G, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1258-65

Structure-activity relationships of carbapenem compounds to anti-Haemophilus influenzae activity and affinity for penicillin-binding proteins. Effect of 1 beta-methyl group and C-2 side chain. Kanazawa K, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):162-8

In vitro and in vivo evaluation of BO-2727 against imipenem-

CARBAPENEMS

and/or meropenem-resistant Pseudomonas aeruginosa. Shibata K, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):135–8

Structure-activity relationship of 1 beta-methyl-carbapenem to its antibacterial activity: effect of the C-2 side chain and the 1 beta-methyl group. Sunagawa M, et al. **J Antibiot (Tokyo)** 1996 Nov;49(11):1175–8

Carbapenem resistance in Pseudomonas aeruginosa from cystic fibrosis patients. Ballestero S, et al. **J Antimicrob Chemother** 1996 Jul;38(1):39–45

In-vitro interactions of DX-8739, a new carbapenem, meropenem and imipenem with amikacin against multiresistant Pseudomonas aeruginosa. Giamarellos-Bourboulis EJ, et al. **J Antimicrob Chemother** 1996 Aug;38(2):287–91

Susceptibility testing of Stenotrophomonas maltophilia to carbapenems. Howe RA, et al. **J Antimicrob Chemother** 1997 Jul;40(1):13–7

Evaluation of high-level carbapenem resistance in atypical Serratia marcescens by a comparison with its revertants. Marumo K, et al. **J Antimicrob Chemother** 1996 Jul; 38(1):47–58

Sensitivities to four carbapenems of bacteria isolated from patients with refractory complicated urinary tract infections and the detection of carbapenemase-producing Pseudomonas aeruginosa [letter] Matsumoto T, et al. **J Antimicrob Chemother** 1996 Aug;38(2):322–4

Imipenem and cephem resistant Pseudomonas aeruginosa carrying plasmids coding for class B beta-lactamase. Minami S, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):433–44

In-vitro activity of carbapenem antibiotics against beta-lactam susceptible and resistant strains of Burkholderia pseudomallei. Smith MD, et al. **J Antimicrob Chemother** 1996 Mar;37(3):611–5

The in-vitro activity of faropenem, a novel oral penem. Woodcock JM, et al. **J Antimicrob Chemother** 1997 Jan; 39(1):35–43

In vitro postantibiotic effect of imipenem and enoxacin alone and in combination against Pseudomonas aeruginosa. Hoštacká A. **Pharmazie** 1997 Jul;52(7):544–6

[Combination effect between panipenem and vancomycin on highly methicillin-resistant Staphylococcus aureus] Fukuoka T, et al. **Jpn J Antibiot** 1997 Apr;50(4):411–9 (Eng. Abstr.) **(Jpn)**

[In vitro susceptibility testing of 446 clinical isolates of gram-positive bacteria to new quinolones, carbapenems and cephalosporins] Cereda RF, et al. **Rev Assoc Med Bras** 1996 Jul-Sep;42(3):130–4 (Eng. Abstr.) **(Por)**

THERAPEUTIC USE

Meta-analysis of the clinical outcome of carbapenem monotherapy in the adjunctive treatment of intra-abdominal infections. Chang DC, et al. **Am J Surg** 1997 Sep;174(3):284–90

Dose finding study on the efficacy and safety of ritipenem in complicated urinary tract infections. Bischoff W, et al. **J Chemother** 1995 Nov;7 Suppl 4:165–7

Empiric antibiotic monotherapy with carbapenems in febrile neutropenia: a review. Cometta A, et al. **J Chemother** 1996 Oct;8(5):375–81 (27 ref.)

Empirical treatment of fever in neutropenic children: the role of the carbapenems. International Antimicrobial Therapy Cooperative Group of the European Organisation for Research and Treatment of Cancer and the Gimema Infection Program. Cometta A, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):744–8 (37 ref.)

Use of carbapenems and other antibiotics for pulmonary infections in patients with cystic fibrosis. Høiby N, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):738–43 (80 ref.)

[Comparative study on the efficacy of ritipenem acoxil and cefotiam hexetil in chronic lower respiratory tract infections by the double-blind method] Saito A, et al. **Jpn J Antibiot** 1996 Mar;49(3):219–49 (Eng. Abstr.) **(Jpn)**

[Meropenem] Shatunov SM, et al. **Antibiot Khimioter** 1996 Jun;41(6):49–61 (114 ref.) **(Rus)**

TOXICITY

[Neurotoxicity of carbapenem compounds and other beta-lactam antibiotics] Sunagawa M, et al. **Jpn J Antibiot** 1996 Jan;49(1):1–16 (54 ref.) (Eng. Abstr.) **(Jpn)**

CARBARYL

ANALYSIS

Correlation of environmental carbaryl measurements with serum and urinary 1-naphthol measurements in a farmer applicator and his family. Shealy DB, et al. **Environ Health Perspect** 1997 May;105(5):510–3

Simultaneous quantification of insecticides including carbaryl in drinking water by gas chromatography using dual electron-capture and nitrogen-phosphorus detection. Oh-Shin YS, et al. **J Chromatogr A** 1997 May 9; 769(2):285–91

ISOLATION & PURIFICATION

Carbaryl washoff from soybean plants. Willis GH, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):239–43

PHARMACOKINETICS

Sorption of carbaryl (1-napthyl N-methyl carbamate) by soil. Jana TK, et al. **Bull Environ Contam Toxicol** 1997 Jul; 59(1):65–71

Influence of moderate haemodilution with fluosol or normal saline on carbaryl disposition in Sprague-Dawley rats. Shrewsbury RP, et al. **J Pharm Pharmacol** 1997 Mar; 49(3):236–40

The influence of diethyl-m-toluamide (DEET) on the percutaneous absorption of permethrin and carbaryl. Baynes RE, et al. **Toxicol Appl Pharmacol** 1997 Jun; 144(2):332–9

PHARMACOLOGY

Effect of sevin on kinetic parameters of camel retina acetylcholinesterase. Kamal MA. **Biochem Mol Biol Int** 1997 Jun;42(2):235–46

Carbaryl induces CYP1A1 gene expression in HepG2 and HaCaT cells but is not a ligand of the human hepatic Ah receptor. Ledirac N, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):177–82

TOXICITY

Effect of carbaryl on tissue composition, maturation, and breeding potential of Cirrhina mrigala (Ham.). Kaur K, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):480–6

Electron microscopic perspectives of gill pathology induced by 1-naphthyl-N-methylcarbamate in the goldfish (Carassius auratus Linnaeus). Pfeiffer CJ, et al. **Histol Histopathol** 1997 Jul;12(3):645–53

Spermatotoxic effects of carbaryl in rats. Pant N, et al. **Hum Exp Toxicol** 1996 Sep;15(9):736–8

CARBAZOLES

Characterization of pulmonary and myocardial beta-adrenoceptors with S-1'-[fluorine-18]fluorocarazolol. Visser TI, et al. **J Nucl Med** 1997 Feb;38(2):169–74

ADMINISTRATION & DOSAGE

Beneficial effects of intravenous and oral carvedilol treatment in acute myocardial infarction. A placebo-controlled, randomized trial. Basu S, et al. **Circulation** 1997 Jul 1; 96(1):183–91

Analgesia in cats [letter] Balmer T, et al. **Vet Rec** 1997 Apr 19;140(16):435

ADVERSE EFFECTS

Stevens-Johnson syndrome associated with carvedilol therapy. Kowalski BJ, et al. **Am J Cardiol** 1997 Sep 1; 80(5):669–70

Nonselective beta-adrenergic blockade with carvedilol does not hinder the benefits of exercise training in patients with congestive heart failure. Demopoulos L, et al. **Circulation** 1997 Apr 1;95(7):1764–7

ANALYSIS

A radioactive binding assay for inhibitors of trkA kinase. Knight E Jr, et al. **Anal Biochem** 1997 May 1;247(2):376–81

Simultaneous determination of a new anticancer agent (NB-506) and its active metabolite in human plasma and urine by high-performance liquid chromatography with ultraviolet detection. Takenaga N, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):111–7

BLOOD

Comparison of the Hummel-Dreyer method in high-performance liquid chromatography and capillary electrophoresis conditions for study of the interaction of (RS)-, (R)- and (S)-carvedilol with isolated plasma proteins. Oravcova J, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):349–57

Quantification of the beta-adrenoceptor ligand S-1'-[18F]fluorocarazolol in plasma of humans, rats and sheep. van Waarde A, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):253–60

CHEMICAL SYNTHESIS

Synthesis and antimicrobial activity of benzo[a]dihydrocarbazole and benzotetrahydrocyclohept[1,2-b]indole derivatives. Macchia M, et al. **Farmaco** 1996 Jan;51(1):75–8

Antimicrobial activity of 5,6-dihydrobenzo-[a]-carbazoles. Part II. Segall A, et al. **Farmaco** 1996 Jul;51(7):513–6

Fused pyrrolo[2,3-c]carbazol-6-ones: novel immunostimulants that enhance human interferon-gamma activity. Hudkins RL, et al. **J Med Chem** 1997 Sep 12; 40(19):2994–6

Neurotrophic 3,9-bis[(alkylthio)methyl]-and-bis(alkoxymethyl)-K-252a derivatives. Kaneko M, et al. **J Med Chem** 1997 Jun 6; 40(12):1863–9

CHEMISTRY

Carvedilol-liposome interaction: evidence for strong association with the hydrophobic region of the lipid bilayers. Cheng HY, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):20–8

Synthesis, characterization, and mutagenicity of nitrated 7H-dibenzo[c,g]carbazole and its phenolic derivatives. Xue W, et al. **Chem Res Toxicol** 1997 Apr;10(4):432–8

Scavenging of hypochlorous acid by carvedilol and ebselen in vitro. Aruoma OI. **Gen Pharmacol** 1997 Feb;28(2):269–72

Neurotrophic 3,9-bis[(alkylthio)methyl]-and-bis(alkoxymethyl)-K-252a derivatives. Kaneko M, et al. **J Med Chem** 1997 Jun 6; 40(12):1863–9

Structure-activity relationships in a series of substituted indolocarbazoles: topoisomerase I and protein kinase C inhibition and antitumoral and antimicrobial properties. Pereira ER, et al. **J Med Chem** 1996 Oct 25;39(22):4471–7

(S,S)- and (S,R)-1'-[18F]fluorocarazolol, ligands for the visualization of pulmonary beta-adrenergic receptors with PET. Elsinga PH, et al. **Nucl Med Biol** 1996 Feb; 23(2):159–67

DIAGNOSTIC USE

Imaging beta-adrenoceptors in the human brain with (S)-1'-[18F]fluorocarazolol. van Waarde A, et al. **J Nucl Med** 1997 Jun;38(6):934–9

METABOLISM

Interactions of procarcinogenic heterocyclic amines and indolocarbazoles with the dioxin receptor. Kleman M, et al. **Biol Chem** 1996 Nov;377(11):741–62 (270 ref.)

Carvedilol and its metabolites suppress endothelin-1 production in human endothelial cell culture. Saijonmaa O, et al. **Blood Press** 1997 Jan;6(1):24–8

Synthesis of depurinating DNA adducts formed by one-electron oxidation of 7H-dibenzo[c,g]carbazole and identification of these adducts after activation with rat liver microsomes. Chen L, et al. **Chem Res Toxicol** 1997 Feb; 10(2):225–33

The staurosporine producing strain Streptomyces longisporoflavus produces metabolites related to K-252a. Proposal for biosynthetic intermediates of K-252a. Cai Y, et al. **J Antibiot (Tokyo)** 1996 Oct;49(10):1060–2

Cloning of genes involved in carbazole degradation of Pseudomonas sp. strain CA10: nucleotide sequences of genes and characterization of meta-cleavage enzymes and hydrolase. Sato SI, et al. **J Bacteriol** 1997 Aug; 179(15):4841–9

Identification and characterization of genes encoding carbazole 1,9a-dioxygenase in Pseudomonas sp. strain CA10. Sato SI, et al. **J Bacteriol** 1997 Aug;179(15):4850–8

Molecular dynamics simulations of the bis-intercalated complexes of ditercalinium and Flexi-Di with the hexanucleotide d(GCGCGC)2: theoretical analysis of the interaction and rationale for the sequence binding specificity. de Pascual-Teresa B, et al. **J Med Chem** 1996 Nov 22;39(24):4810–24

The failure of substrate pKa to influence the microsomal formation of amides from N-benzylamines: the microsomal metabolism of N-benzyl pyrrolidine, N-benzyl carbazole and N-acetyl-N-benzyl-4-methylaniline. Ulgen M, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1320–6

Pharmacogenetics and heart failure: a convergence with carvedilol [editorial] Meadowcroft AM, et al. **Pharmacotherapy** 1997 Jul-Aug;17(4):637–9

PHARMACOKINETICS

Pharmacokinetics and metabolism of the new thromboxane A2 receptor antagonist ramatroban in animals. 1st communication: absorption, concentrations in plasma, metabolism, and excretion after single administration to rats and dogs. Boberg M, et al. **Arzneimittelforschung** 1997 Aug; 47(8):928–38

Pharmacokinetics and metabolism of the new thromboxane A2 receptor antagonist ramatroban in animals. 2nd communication: distribution to organs and tissues in male, female and pregnant rats, and characteristics of protein binding in plasma. Steinke W, et al. **Arzneimittelforschung** 1997 Aug;47(8):939–48

In vitro identification of the human cytochrome P450 enzymes involved in the metabolism of R(+)- and S(-)-carvedilol. Oldham HG, et al. **Drug Metab Dispos** 1997 Aug;25(8):970–7

Binding measurements of indolocarbazole derivatives to immobilised human serum albumin by high-performance liquid chromatography. Ashton DS, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):194–8

PHARMACOLOGY

Effect of carprofen on sulfated glycosaminoglycan metabolism, protein synthesis, and prostaglandin release by cultured osteoarthritic canine chondrocytes. Benton HP, et al. **Am J Vet Res** 1997 Mar;58(3):286–92

Atypical isoforms of pKc and insulin secretion from pancreatic beta-cells: evidence using Gö 6976 and Ro 31-8220 as Pkc inhibitors. Harris TE, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):672–6

Gö 6976: an inhibitor of Ca2+/DAG-dependent protein kinase C isoforms in islets of Langerhans. Harris TE, et al. **Biochem Soc Trans** 1997 Feb;25(1):118S

Carvedilol and its metabolites suppress endothelin-1 production in human endothelial cell culture. Saijonmaa O, et al. **Blood Press** 1997 Jan;6(1):24–8

Effects of sigma ligands on the nociceptin/orphanin FQ

receptor co-expressed with the G-protein-activated K+ channel in Xenopus oocytes. Kobayashi T, et al. **Br J Pharmacol** 1997 Mar;120(6):986-7

The sigma ligand rimcazole activates noradrenergic neurons projecting to the paraventricular nucleus and increases corticosterone secretion in rats. Eaton MJ, et al. **Brain Res** 1996 Sep 16;733(2):162-6

Effects of sigma ligands on the ability of rimcazole to inhibit PCP hsp70 induction. Sharp JW, et al. **Brain Res Bull** 1996; 39(6):359-66

Pharmacology of carvedilol: rationale for use in hypertension, coronary artery disease, and congestive heart failure. Ruffolo RR Jr, et al. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:247-56 (77 ref.)

Effects of chronic treatment with carvedilol on abnormalities of endothelium-dependent relaxation and structure of endothelium in resistance arteries of SHRSP. Sasaki F, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S329-30

Carvedilol. A reappraisal of its pharmacological properties and therapeutic use in cardiovascular disorders. Dunn CJ, et al. **Drugs** 1997 Jul;54(1):161-85 (179 ref.)

Effects of carvedilol and atenolol on arterial pulse curves (plethysmography) and finger temperature after hand cooling. Klemsdal TO, et al. **Eur J Clin Pharmacol** 1996; 50(6):483-9

Carvedilol improves function and reduces infarct size in the feline myocardium by protecting against lethal reperfusion injury. Brunvand H, et al. **Eur J Pharmacol** 1996 Oct 24; 314(1-2):99-107

The sigma receptor ligand rimcazole alters secretion of prolactin and alpha-melanocyte stimulating hormone by dopaminergic and non-dopaminergic mechanisms. Eaton MJ, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):171-7

Radioligand binding affinity and biological activity of the enantiomers of a chiral melatonin analogue. Sugden D, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):239-43

A novel HSP70 gene of Schizosaccharomyces pombe that confers K-252a resistance. Usui T, et al. **Gene** 1997 Apr 11;189(1):43-7

CEP-751 inhibits TRK receptor tyrosine kinase activity in vitro OFF exhibits anti-tumor activity. Camoratto AM, et al. **Int J Cancer** 1997 Aug 7;72(4):673-9

Left ventricular remodeling with carvedilol in patients with congestive heart failure due to ischemic heart disease. Australia-New Zealand Heart Failure Research Collaborative Group. Doughty RN, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1060-6

Anti-proliferative effect of the kinase inhibitor K252a on human prostatic carcinoma cell lines. Delsite R, et al. **J Androl** 1996 Sep-Oct;17(5):481-90

Comparison of the cardiovascular effects of the novel 5-HT(1B/1D) receptor agonist, SB 209509 (VML251), and sumatriptan in dogs. Parsons AA, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):136-41

Effect of an ectokinase inhibitor, K252b, on degranulation and Ca2+ signals of RBL-2H3 cells and human basophils. Teshima R, et al. **J Immunol** 1997 Jul 15;159(2):964-9

Fused pyrrolo[2,3-c]carbazol-6-ones: novel immunostimulants that enhance human interferon-gamma activity. Hudkins RL, et al. **J Med Chem** 1997 Sep 12; 40(19):2994-6

Neurotrophic 3,9-bis[(alkylthio)methyl]-and-bis(alkoxymethyl)-K-252a derivatives. Kaneko M, et al. **J Med Chem** 1997 Jun 6; 40(12):1863-9

Concentration-dependent stimulation and inhibition of growth cone behavior and neurite elongation by protein kinase inhibitors KT5926 and K-252a. Oberstar JV, et al. **J Neurobiol** 1997 Aug;33(2):161-71

K-252b potentiation of neurotrophin-3 is trkA specific in cells lacking p75NTR. Maroney AC, et al. **J Neurochem** 1997 Jan;68(1):88-94

Inhibition of glial cell line-derived neurotrophic factor induced intracellular activity by K-252b on dopaminergic neurons. Pong K, et al. **J Neurochem** 1997 Sep;69(3):986-94

Involvement of protein kinase C in nerve growth factor- and K-252a-stimulated calcium uptake into PC12 cells. Dickens G, et al. **J Neurosci Res** 1997 Feb 1;47(3):271-6

Chronic carvedilol reduces mortality and renal damage in hypertensive stroke-prone rats. Barone FC, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):948-55

Carvedilol retards sudden loss of contraction during early regional myocardial ischemia in feline hearts. Brunvand H, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):363-8

Effects of chronic treatment with carvedilol on smooth muscle tone and endothelium-dependent relaxation of aorta in stroke-prone spontaneously hypertensive rats. Sunano S, et al. **J Smooth Muscle Res** 1997 Feb;33(1):23-35

Influence of carprofen on minimum alveolar concentration of halothane in dogs. Alibhai HI, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):320-1

Inhibition of human immunodeficiency virus type 1 replication in vitro by a novel combination of anti-Tat single-chain intrabodies and NF-kappa B antagonists. Mhashilkar AM, et al. **J Virol** 1997 Sep;71(9):6486-94

Induction of polyploidization in the human erythroleukemia cell line (HEL) by protein kinase inhibitor (K252a) and the phorbol-ester TPA. Yokoe H, et al. **Leuk Lymphoma** 1997 Apr;25(3-4):333-43

Mutagenicity of nitro- and amino-substituted carbazoles in Salmonella typhimurium. III. Methylated derivatives of 9H-carbazole. André V, et al. **Mutat Res** 1997 Mar 17; 389(2-3):247-60

Simultaneous measurement of [3H]noradrenaline release and neurogenic contraction under identical conditions, to determine the prejunctional inhibitory effects of SKF 99101H and BRL 56905 in dog saphenous vein. Medhurst AD, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr;355(4):475-82

Effects of the antidepressant pirlindole and its dehydro-derivative on the activity of monoamine oxidase-A and on GABAA receptors. Medvedev AE, et al. **Neurochem Res** 1996 Dec;21(12):1521-6

5-HT1E receptor agonists inhibit neurogenic dural inflammation in guinea pigs. Johnson KW, et al. **Neuroreport** 1997 Jul 7;8(9-10):2237-40

Thromboxane A2 antagonist inhibits leukotriene D4-induced smooth muscle contraction in guinea-pig lung parenchyma, but not in trachea. Aizawa H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):437-40

Involvement of thromboxane A2 in bronchial hyperresponsiveness of asthma. Kanazawa Asthma Research Group. Fujimura M, et al. **Pulm Pharmacol** 1995 Dec;8(6):251-7

[A comparative pharmacological study of the serotoninergic antidepressants tetrindole and fluoxetin] Andreeva NI, et al. **Eksp Klin Farmakol** 1996 Jul-Aug;59(4):5-7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

A double-blind randomized placebo-controlled study of the efficacy and safety of pirlindole, a reversible monoamine oxidase A inhibitor, in the treatment of depression. De Wilde JE, et al. **Acta Psychiatr Scand** 1996 Dec; 94(6):404-10

Effects of carvedilol on systolic and diastolic left ventricular performance in idiopathic dilated cardiomyopathy or ischemic cardiomyopathy [letter; comment] Lee YC. **Am J Cardiol** 1997 Apr 1;79(7):1001. Comment on: Am J Cardiol 1996 Oct 1;78(7):779-84.

Effects of carvedilol on systolic and diastolic left ventricular performance in idiopathic dilated cardiomyopathy or ischemic cardiomyopathy [see comments] Quaife RA, et al. **Am J Cardiol** 1996 Oct 1;78(7):779-84. Comment in: Am J Cardiol 1997 Apr 1;79(7):1001.

Metabolic and cardiovascular effects of carvedilol and atenolol in non-insulin-dependent diabetes mellitus and hypertension. A randomized, controlled trial. Giugliano D, et al. **Ann Intern Med** 1997 Jun 15;126(12):955-9

Effects of the alpha-/beta-blocking agent carvedilol on hepatic and systemic hemodynamics in patients with cirrhosis and portal hypertension. Sekiyama T, et al. **Arzneimittelforschung** 1997 Apr;47(4):353-5

Second- and third-generation beta-blocking drugs in chronic heart failure. Bristow MR, et al. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:291-6

Comparison of the hemodynamic effects of metoprolol and carvedilol in hypertensive patients. Weber K, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):113-7

Carvedilol produces dose-related improvements in left ventricular function and survival in subjects with chronic heart failure. MOCHA Investigators [comment] Bristow MR, et al. **Circulation** 1996 Dec 1;94(11):2807-16. Comment on: Circulation 1996 Dec 1;94(11):2793-9. Comment on: Circulation 1996 Dec 1;94(11):2800-6. Comment on: Circulation 1996 Dec 1;94(11):2807-16.

Carvedilol inhibits clinical progression in patients with mild symptoms of heart failure. US Carvedilol Heart Failure Study Group. Colucci WS, et al. **Circulation** 1996 Dec 1; 94(11):2800-6

Comparative hemodynamic, left ventricular functional, and antiadrenergic effects of chronic treatment with metoprolol versus carvedilol in the failing heart. Gilbert EM, et al. **Circulation** 1996 Dec 1;94(11):2817-25

Double-blind, placebo-controlled study of the effects of carvedilol in patients with moderate to severe heart failure. The PRECISE Trial. Prospective Randomized Evaluation of Carvedilol on Symptoms and Exercise. Packer M, et al. **Circulation** 1996 Dec 1;94(11):2793-9

Carvedilol [Coreg]. Kukin M. **Compr Ther** 1997 Sep; 23(9):617-20 (13 ref.)

Carvedilol. A reappraisal of its pharmacological properties and therapeutic use in cardiovascular disorders. Dunn CJ, et al. **Drugs** 1997 Jul;54(1):161-85 (179 ref.)

The association between cardiac events and myocardial ischaemia following thrombolysis in acute myocardial infarction and the impact of carvedilol. Basu S, et al. **Eur Heart J** 1996 Dec;17 Suppl F:43-7

Slowing the progression of heart failure [editorial] Cohn JN. **Eur Heart J** 1996 Nov;17(11):1609-11

Carvedilol versus verapamil in chronic stable angina: a multicentre trial. Hauf-Zachariou U, et al. **Eur J Clin Pharmacol** 1997;52(2):95-100

Metabolic effects of carvedilol in hypertensive patients. Lithell H, et al. **Eur J Clin Pharmacol** 1997;52(1):13-7

A hydroxylated analog of the beta-adrenoceptor antagonist, carvedilol, affords exceptional antioxidant protection to postischemic rat hearts. Kramer JH, et al. **Free Radic Biol Med** 1996;21(6):813-25

Intractable recurrent ventricular tachycardia in dilated cardiomyopathy controlled by a vasodilating beta blocker. Wright DJ, et al. **Heart** 1997 Jun;77(6):581-2

Use of carprofen for the treatment of pain and inflammation in dogs. Fox SM, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1493-8 (60 ref.)

Effect of thromboxane A2-receptor antagonist on bradykinin-induced bronchoconstriction in asthma. Rajakulasingam K, et al. **J Appl Physiol** 1996 Jun; 80(6):1973-7

Carvedilol protects against lethal reperfusion injury through antiadrenergic mechanisms. Brunvand H, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):409-17

Coronary artery disease and antioxidants--is there a role for carvedilol? Landray MJ, et al. **J Clin Pharm Ther** 1997 Feb;22(1):3-5 (26 ref.)

Acute haemodynamic changes after oral carvedilol, a vasodilating beta-blocker, in patients with cirrhosis. Forrest EH, et al. **J Hepatol** 1996 Dec;25(6):909-15

Carprofen as an analgesic for postoperative pain in cats: dose titration and assessment of efficacy in comparison to pethidine hydrochloride. Lascelles BD, et al. **J Small Anim Pract** 1995 Dec;36(12):535-41

Randomised, placebo-controlled trial of carvedilol in patients with congestive heart failure due to ischaemic heart disease. Australia/New Zealand Heart Failure Research Collaborative Group [see comments] **Lancet** 1997 Feb 8; 349(9049):375-80. Comment in: ACP J Club 1997 Jul-Aug;127(1):3.

Carvedilol for heart failure. **Med Lett Drugs Ther** 1997 Sep 26;39(1010):89-91

Carvedilol in patients with chronic heart failure [letter; comment] Moyé LA, et al. **N Engl J Med** 1996 Oct 24; 335(17):1318; discussion 1319-20. Comment on: N Engl J Med 1996 May 23;334(21):1349-55.

Carvedilol in patients with chronic heart failure [letter; comment] von Olshausen K, et al. **N Engl J Med** 1996 Oct 24;335(17):1318-9; discussion 1319-20. Comment on: N Engl J Med 1996 May 23;334(21):1349-55.

Carvedilol inhibits aortic lipid deposition in the hypercholesterolemic rat. Feuerstein GZ, et al. **Pharmacology** 1997 Jan;54(1):24-32

Beta-blockade in heart failure: a potential role. Kwasniewski R, et al. **S D J Med** 1997 Jan;50(1):25-6

[Carvedilol] Antepohl W, et al. **Dtsch Med Wochenschr** 1997 Jun 20;122(25-26):833-4 **(Ger)**

[Therapy with beta blockers in heart failure. Recent studies of carvedilol] Böhm M, et al. **Fortschr Med** 1996 May 10; 114(13):167-8 (0 ref.) **(Ger)**

[Beta blocker for therapy of heart failure. Decreased mortality and fewer clinic admissions (news)] Pickl S. **Fortschr Med** 1997 Apr 20;115(11):22 **(Ger)**

[Beta blockers in heart failure (editorial)] Heinzl S. **Med Monatsschr Pharm** 1996 Feb;19(2):37 **(Ger)**

[Value of beta-blocker therapy in treatment of coronary heart disease and sudden cardiac death with special reference to carvedilol] Zehender M, et al. **Z Kardiol** 1996;85 Suppl 7:23-9 (36 ref.) (Eng. Abstr.) **(Ger)**

[The effects of mid- and long-term administration (3-4 years) of carvedilol in patients with idiopathic dilated cardiomyopathy] Metra M, et al. **Cardiologia** 1997 May; 42(5):503-12 (Eng. Abstr.) **(Ita)**

[Thromboxane A2 receptor antagonist in asthma therapy] Endo S, et al. **Nippon Rinsho** 1996 Nov;54(11):3045-8 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The Russian antidepressant tetrindole] Mashkovskiĭ MD, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(4):93-5 **(Rus)**

[Carvedilol and heart failure: new findings (editorial)] Cosín Aguilar J. **Rev Esp Cardiol** 1996 Feb;49(2):85-7 **(Spa)**

TOXICITY

K252a and staurosporine microbial alkaloid toxins as prototype of neurotropic drugs. Lazarovici P, et al. **Adv Exp Med Biol** 1996;391:367-77 (32 ref.)

DNA adduct formation in primary mouse embryo cells induced by 7H-dibenzo[c,g]carbazole and its organ-specific carcinogenic derivatives. Gábelová A, et al. **Environ Mol Mutagen** 1997;30(1):56-64

Tissue-specific differences in adduct formation by hepatocarcinogenic and sarcomatogenic derivatives of 7H-dibenzo[c,g]carbazole in mouse parenchymal and nonparenchymal liver cells. Périn-Roussel O, et al. **Environ Mol Mutagen** 1997;29(4):346-56

Developmental toxicity of clarified slurry oil, syntower bottoms, and distillate aromatic extract administered as a single oral dose to pregnant rats. Feuston MH, et al. **J Toxicol Environ Health** 1996 Sep;49(1):45-66

Developmental toxicity study in rats exposed dermally to clarified slurry oil for a limited period of gestation. Feuston MH, et al. **J Toxicol Environ Health** 1996 Oct 11; 49(2):207-20

URINE

[Enantioselectivity in the excretion of glucuronides of carprofen in man, dogs and horses] Delatour P, et al. **Bull Acad Natl Med** 1996 Oct;180(7):1565-72 (Eng. Abstr.) **(Fre)**

CARBENICILLIN

METABOLISM

Stereoselective binding of carbenicillin epimers to human serum albumin. Itoh T, et al. **Chirality** 1996;8(2):201-6

CARBENICILLIN

PHARMACOLOGY

Transferable resistance to specific antibiotics in nosocomial strains of Pseudomonas aeruginosa from two teaching hospitals. Blahová J, et al. **J Chemother** 1996 Dec; 8(6):420–4

CARBENOXALONE see **CARBENOXOLONE**

CARBENOXOLONE

PHARMACOLOGY

Prenatal glucocorticoid exposure leads to offspring hyperglycaemia in the rat: studies with the 11 beta-hydroxysteroid dehydrogenase inhibitor carbenoxolone. Lindsay RS, et al. **Diabetologia** 1996 Nov; 39(11):1299–305

Effects of licorice derivatives on vascular smooth muscle function. Brem AS, et al. **Life Sci** 1997;60(3):207–14

In vivo and in vitro effects of carbenoxolone on glucocorticoid receptor binding and glucocorticoid activity. Soro A, et al. **Steroids** 1997 Apr;62(4):388–94

THERAPEUTIC USE

Pseudohypoaldosteronism due to renal and multisystem resistance to mineralocorticoids respond differently to carbenoxolone. Hanukoglu A, et al. **J Steroid Biochem Mol Biol** 1997 Jan;60(1–2):105–12

CARBIDOPA

ADMINISTRATION & DOSAGE

Familial akathisia and depression treated with nefazodone [letter] Simpson JS. **Can J Psychiatry** 1996 Oct; 41(8):539–40

Comparison of immediate-release and controlled release carbidopa/levodopa in Parkinson's disease. A multicenter 5-year study. The CR First Study Group. Block G, et al. **Eur Neurol** 1997;37(1):23–7

Hydrocephalic parkinsonism due to Paget's disease of bone: dramatic improvement following ventriculoperitoneal shunt and temporary levodopa/carbidopa therapy. Ikeda K, et al. **Mov Disord** 1997 Mar;12(2):241–2

Early morning akinesia in Parkinson's disease: effect of standard carbidopa/levodopa and sustained-release carbidopa/levodopa. Pahwa R, et al. **Neurology** 1996 Apr; 46(4):1059–62

Liquid levodopa/carbidopa produces significant improvement in motor function without dyskinesia exacerbation. Pappert EJ, et al. **Neurology** 1996 Dec; 47(6):1493–5

[The effect of low doses of nakom on the hormonal secretion of the hypothalamo-hypophyseal-adrenal system in patients with infantile cerebral palsy] Brin IL, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):51–4 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Henoch-Schönlein syndrome induced by carbidopa/levodopa [letter] Niedermaier G, et al. **Lancet** 1997 Apr 12;349(9058):1071–2

Levodopa in pregnancy [letter; comment] Nomoto M, et al. **Mov Disord** 1997 Mar;12(2):261. Comment on: Mov Disord 1995 Jan;10(1):115.

Augmentation of the restless legs syndrome with carbidopa/levodopa. Allen RP, et al. **Sleep** 1996 Apr; 19(3):205–13

BLOOD

[The effect of controlled release of DOPA and carbidopa on clinical response and plasma pharmacokinetics of DOPA in parkinsonian patients] García de Yébenes J, et al. **Neurologia** 1997 Apr;12(4):145–56 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Stability of levodopa/carbidopa solutions [letter] Cedarbaum JM. **Mov Disord** 1997 Jul;12(4):625

The stability of carbidopa in solution. Pappert EJ, et al. **Mov Disord** 1997 Jul;12(4):608–10

PHARMACOKINETICS

Controlled release levodopa/carbidopa 25/100 (Sinemet CR 25/100): pharmacokinetics and clinical efficacy in untreated parkinsonian patients. Hammerstad JP, et al. **Clin Neuropharmacol** 1994 Oct;17(5):429–34

Circadian phase dependent pharmacokinetics of L-dopa, its main metabolites (3-OMD, HVA, DOPAC) and carbidopa in rats. Andre MH, et al. **Fundam Clin Pharmacol** 1996; 10(4):350–5

Pharmacokinetic comparison of Sinemet and Atamet (generic carbidopa/levodopa): a single-dose study. Pahwa R, et al. **Mov Disord** 1996 Jul;11(4):427–30

PHARMACOLOGY

Controlled release levodopa/carbidopa 25/100 (Sinemet CR 25/100): pharmacokinetics and clinical efficacy in untreated parkinsonian patients. Hammerstad JP, et al. **Clin Neuropharmacol** 1994 Oct;17(5):429–34

Comparison of the effects on urinary sodium excretion of indomethacin and of carbidopa in normal volunteers given an intravenous saline infusion. Stokes GS, et al. **Clin Sci (Colch)** 1997 Apr;92(4):409–14

Somatic delivery of catecholamines in the striatum attenuate parkinsonian symptoms and widen the therapeutic window of oral sinemet in rats. Lindner MD, et al. **Exp Neurol** 1997 May;145(1):130–40

Effects of carbidopa and of intravenous saline infusion into normal and hypertensive subjects on urinary free and conjugated dopamine. Stokes GS, et al. **J Hypertens** 1997 Jul;15(7):761–8

Protective effect of carbidopa on hydroxyl radical generation in the rat striatum by dopamine. Obata T, et al. **Neurosci Lett** 1996 Dec 27;221(1):13–6

[The effect of controlled release of DOPA and carbidopa on clinical response and plasma pharmacokinetics of DOPA in parkinsonian patients] García de Yébenes J, et al. **Neurologia** 1997 Apr;12(4):145–56 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Carbidopa/levodopa in the treatment of neuroleptic malignant syndrome [letter] Shoop SA, et al. **Ann Pharmacother** 1997 Jan;31(1):119

The combined use of amantadine and l-dopa/carbidopa in the treatment of chronic brain injury. Kraus MF, et al. **Brain Inj** 1997 Jun;11(6):455–60

Validation of a rodent model of Parkinson's Disease: evidence of a therapeutic window for oral Sinemet. Lindner MD, et al. **Brain Res Bull** 1996;39(6):367–72

Different effects of levodopa and apomorphine on blink reflex recovery cycle in essential blepharospasm. Napolitano A, et al. **Eur Neurol** 1997;38(2):119–22

International (NL-UK) double-blind study of Sinemet CR and standard Sinemet (25/100) in 170 patients with fluctuating Parkinson's disease. Wolters EC, et al. **J Neurol** 1996 Mar;243(3):235–40

Comparison of utilization of Sinemet and Parkinson's disease mortality as surrogate indicators of Parkinson's disease in the United States. Lanska DJ. **J Neurol Sci** 1997 Jan; 145(1):105–8

Pergolide and carbidopa/levodopa treatment of the restless legs syndrome and periodic leg movements in sleep in a consecutive series of patients. Earley CJ, et al. **Sleep** 1996 Dec;19(10):801–10

[Clinical experience in switching patients from standard levodopa to a controlled-release levodopa] Leiva Santana C, et al. **Neurologia** 1996 Jan;11(1):1–9 (Eng. Abstr.) **(Spa)**

TOXICITY

Glial cell line-derived neurotrophic factor-levodopa interactions and reduction of side effects in parkinsonian monkeys. Miyoshi Y, et al. **Ann Neurol** 1997 Aug; 42(2):208–14

CARBIMAZOLE

ADMINISTRATION & DOSAGE

A comparison of 20 or 40 mg per day of carbimazole in the initial treatment of hyperthyroidism [published erratum appears in Clin Endocrinol (Oxf) 1997 Feb;46(2):240] Page SR, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):511–6

ADVERSE EFFECTS

[Sialadenitis caused by carbimazole (letter)] Gaudouen Y, et al. **Ann Med Interne (Paris)** 1996;147(6):462–4 **(Fre)**

THERAPEUTIC USE

Experience with carbimazole in the treatment of the hyperthyroidism of Graves' disease in Nigerian patients. Modebe O. **Afr J Med Med Sci** 1995 Dec;24(4):347–51

Graves disease associated with autoimmune thrombocytopenic purpura. Hofbauer LC, et al. **Arch Intern Med** 1997 May 12;157(9):1033–6

Consensus statement on management of hypothyroidism and hyperthyroidism. Long term treatment is not safe in elderly patients with toxic nodular hyperthyroidism [letter; comment] Takács IK, et al. **BMJ** 1996 Dec 7; 313(7070):1487. Comment on: BMJ 1996 Aug 31;313(7056):539–44.

Prediction of remission in Graves' disease treated with long-term carbimazole therapy: evaluation of technetium-99m thyroid uptake and TSH concentrations as prognostic indicators. Prakash R. **Eur J Nucl Med** 1996 Feb;23(2):118–22

Propranolol as an adjunct therapy for hyperthyroid tremor. Henderson JM, et al. **Eur Neurol** 1997;37(3):182–5

Dyspnoea, lung function & respiratory muscle pressures in patients with Graves' disease. Guleria R, et al. **Indian J Med Res** 1996 Nov;104:299–303

Apathetic thyrotoxicosis [letter] Cunningham C, et al. **Ir Med J** 1997 Jun-Jul;90(4):155

[Treatment of amiodarone-induced hyperthyroidism by carbimazole with maintenance of amiodarone] Talard P, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1301–3 (Eng. Abstr.) **(Fre)**

[Space occupying lesion in the anterior mediastinum in a patient with Basedow disease and previously diagnosed osteosarcoma] Lohwasser S, et al. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1070–4 (Eng. Abstr.) **(Ger)**

CARBOCAINE see **MEPIVACAINE**

CARBOCHROMEN see **CHROMONAR**

CARBOCROMEN see **CHROMONAR**

CARBOCYANINES

Cyanine dyes with high absorption cross section as donor chromophores in energy transfer primers. Hung SC, et al. **Anal Biochem** 1996 Dec 1;243(1):15–27

Diffusion membrane potential in liposomes: setting by ion gradients, absolute calibration and monitoring of fast changes by spectral shifts of diS-C3(3) fluorescence maximum. Vecer J, et al. **Biochim Biophys Acta** 1997 Apr 26;1325(2):155–64

The fluorescent dye 3, 3' dihexyloxacarbocyanine iodide selectively stains the midpiece and apical region of the heads of murid rodent spermatozoa. Breed WG, et al. **Biotech Histochem** 1995 Nov;70(6):294–6

Quantification of tumour cell-endothelial cell attachment by 1,1'-dioctadecyl-3,3,3',3'-tetramethylindocarbocyanine (DiI). Hiscox S, et al. **Cancer Lett** 1997 Jan 30;112(2):209–17

Improved single laser measurement of two cellular antigens and DNA-ploidy by the combined use of propidium iodide and TO-PRO-3 iodide. Corver WE, et al. **Cytometry** 1997 Aug 1;28(4):329–36

JC-1, but not DiOC6(3) or rhodamine 123, is a reliable fluorescent probe to assess delta psi changes in intact cells: implications for studies on mitochondrial functionality during apoptosis. Salvioli S, et al. **FEBS Lett** 1997 Jul 7; 411(1):77–82

Afferent and efferent connections of the habenula in the rainbow trout (Oncorhynchus mykiss): an indocarbocyanine dye (DiI) study. Yañez J, et al. **J Comp Neurol** 1996 Sep 2;372(4):529–43

A procedure for in situ hybridization combined with retrograde labeling of neurons: application to the study of cell adhesion molecule expression in DiI-labeled rat pyramidal neurons. Fujimori KE, et al. **J Histochem Cytochem** 1997 Mar;45(3):455–9

Toluidine blue-O is a Nissl bright-field counterstain for lipophilic fluorescent tracers Di-ASP, DiI and DiO. Chelvanayagam DK, et al. **J Neurosci Methods** 1997 Mar; 72(1):49–55

A reliable and sensitive method for fluorescent photoconversion. Singleton CD, et al. **J Neurosci Methods** 1996 Jan;64(1):47–54

The human fetal retinal nerve fiber layer and optic nerve head: a DiI and DiA tracing study. FitzGibbon T. **Vis Neurosci** 1997 May-Jun;14(3):433–47

CHEMISTRY

A method for enhancing the sensitivity and stability of stains-all for phosphoproteins separated in sodium dodecyl sulfate-polyacrylamide gels. Myers JM, et al. **Anal Biochem** 1996 Sep 5;240(2):300–2

Voltage-dependent translocation of R18 and DiI across lipid bilayers leads to fluorescence changes. Melikyan GB, et al. **Biophys J** 1996 Nov;71(5):2680–91

Allo-7: a new fluorescent tandem dye for use in flow cytometry. Beavis AJ, et al. **Cytometry** 1996 Aug 1; 24(4):390–5

Observation of single-cell fluorescence spectra in laser flow cytometry. Gauci MR, et al. **Cytometry** 1996 Dec 1; 25(4):388–93

Cy7PE and Cy7APC: bright new probes for immunofluorescence. Roederer M, et al. **Cytometry** 1996 Jul 1;24(3):191–7

Signal amplification in the detection of single-copy DNA and RNA by enzyme-catalyzed deposition (CARD) of the novel fluorescent reporter substrate Cy3.29-tyramide. Schmidt BF, et al. **J Histochem Cytochem** 1997 Mar; 45(3):365–73

Stability, specificity and fluorescence brightness of multiply-labeled fluorescent DNA probes. Randolph JB, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2923–9

DIAGNOSTIC USE

Use of the novel carbocyanine tracer fast-DiI for investigating upper respiratory tract cranial nerves in prenatal rats. Friedland DR, et al. **Lab Anim Sci** 1996 Apr; 46(2):220–5

METABOLISM

DiOC2(3) is not a substrate for multidrug resistance protein (MRP)-mediated drug efflux. Minderman H, et al. **Cytometry** 1996 Sep 1;25(1):14–20

Molecular mechanism controlling the incorporation of fluorescent nucleotides into DNA by PCR. Zhu Z, et al. **Cytometry** 1997 Jul 1;28(3):206–11

Functional assay of multidrug resistant cells using JC-1, a carbocyanine fluorescent probe. Kühnel JM, et al. **Leukemia** 1997 Jul;11(7):1147–55

CARBOCYSTEINE

ADMINISTRATION & DOSAGE

[Inhalation and peroral mucolytic therapy in mucoviscidosis in children] Uglitskikh AK, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep-Oct;(5):15-8 (Eng. Abstr.) **(Rus)**

ANALOGS & DERIVATIVES

S-carbocysteine-lysine salt monohydrate and cAMP cause non-additive activation of the cystic fibrosis transmembrane regulator channel in human respiratory epithelium. Meyer G, et al. **FEBS Lett** 1997 Mar 3; 404(1):11-4

Prevention of acute exacerbations of chronic obstructive bronchitis with carbocysteine lysine salt monohydrate: a multicenter, double-blind, placebo-controlled trial. Allegra L, et al. **Respiration** 1996;63(3):174-80

BLOOD

Quantification of S-carboxymethyl-(R)-cysteine in human plasma by high-performance ion-exchange liquid chromatography/atmospheric pressure ionization mass spectrometry. Anacardio R, et al. **J Mass Spectrom** 1997 Apr;32(4):388-94

PHARMACOLOGY

Effects of S-CMC on the cisplatin toxicity in rats. Değirmenci I, et al. **Urol Int** 1996;57(2):99-103

THERAPEUTIC USE

Otitis media with effusion and S-carboxymethylcysteine and/or its lysine salt: a critical overview. Pignataro O, et al. **Int J Pediatr Otorhinolaryngol** 1996 May;35(3):231-41

CARBODIIMIDES

New biotinylating reagent utilizing carbodiimide function. Masuda G, et al. **Nucleic Acids Symp Ser** 1995;(34):69-70

CHEMISTRY

Evaluation of carbodiimides using a competition method. Izdebski J, et al. **J Pept Sci** 1997 Mar-Apr;3(2):141-4

[Interaction between globular proteins and water-soluble carbodiimides] Valuev IL, et al. **Prikl Biokhim Mikrobiol** 1997 Mar-Apr;33(2):180-2 (Eng. Abstr.) **(Rus)**

CARBOFURAN

CHEMISTRY

Adsorption mechanisms of carbofuran on silica: structure, kinetics, and solubility influence. Mear AM, et al. **Ecotoxicol Environ Saf** 1996 Nov;35(2):163-73

METABOLISM

Plasmid-mediated mineralization of carbofuran by Sphingomonas sp. strain CF06. Feng X, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1332-7

Mineralization, volatilization, and degradation of carbofuran in soil samples from Kenya. Lalah JO, et al. **Bull Environ Contam Toxicol** 1996 Jan;56(1):37-41

PHARMACOLOGY

Antagonism produced by hypertonic nutrient solutions on the depressive effect of carbofuran on isolated guinea pig atria. Nascimento DC, et al. **Pharmacol Res** 1996 Apr-May; 33(4-5):251-4

POISONING

Winter poisoning of coyotes and raptors with Furadan-laced carcass baits. Allen GT, et al. **J Wildl Dis** 1996 Apr; 32(2):385-9

Poisoning of bald eagles and red-tailed hawks by carbofuran and fensulfothion in the Fraser Delta of British Columbia, Canada. Elliott JE, et al. **J Wildl Dis** 1996 Jul;32(3):486-91

Pesticide poisoning of animals of wild fauna. Antoniou V, et al. **Vet Hum Toxicol** 1996 Jun;38(3):212-3

TOXICITY

Impact of carbofuran in the oocyte maturation of catfish, Heteropenustes fossilis (Bloch). Chatterjee S, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):426-30

Behavioral effects of waterborne carbofuran in goldfish. Saglio P, et al. **Arch Environ Contam Toxicol** 1996 Aug; 31(2):232-8

In utero and lactational exposure of carbofuran to rats: effect on testes and sperm. Pant N, et al. **Hum Exp Toxicol** 1997 May;16(5):267-72

CARBOHYDRATE ANTIGENS, TUMOR-ASSOCIATED see **ANTIGENS, TUMOR-ASSOCIATED, CARBOHYDRATE**

CARBOHYDRATE CONFORMATION

Conformational study of asialo-GM1 (GA1) ganglioside. Park HJ, et al. **Biopolymers** 1997;42(1):19-35

Biotechnology of protein and polysaccharide gels. Tombs MP. **Biotechnol Genet Eng Rev** 1997;14:337-63 (62 ref.)

A mathematical model of sialylation of N-linked oligosaccharides in the trans-Golgi network. Monica TJ, et al. **Glycobiology** 1997 Jun;7(4):515-21

Determination of the absolute configuration of sugar residues using gas chromatography. Method with potential for elimination of references. Lindqvist L, et al. **J Chromatogr A** 1997 May 9;769(2):253-61

Characterization of the carbohydrate structures of apolipoprotein H through concanavalin A affinity chromatography. Gambino R, et al. **J Lipid Mediat Cell Signal** 1997 May;16(1):11-21

CARBOHYDRATE-DEFICIENT GLYCOPROTEIN SYNDROME

Carbohydrate-deficient glycoprotein syndrome. Krasnewich D, et al. **Adv Pediatr** 1997;44:109-40 (63 ref.)

Carbohydrate-deficient glycoprotein syndrome: hidden treasures [editorial; comment] Gahl WA. **J Lab Clin Med** 1997 Apr;129(4):394-5. Comment on: J Lab Clin Med 1997 Apr;129(4):412-21.

BLOOD

Oral ingestion of mannose elevates blood mannose levels: a first step toward a potential therapy for carbohydrate-deficient glycoprotein syndrome type I. Alton G, et al. **Biochem Mol Med** 1997 Apr;60(2):127-33

Complex functional and structural coagulation abnormalities in the carbohydrate-deficient glycoprotein syndrome type I. Stibler H, et al. **Blood Coagul Fibrinolysis** 1996 Mar; 7(2):118-26

Haemostatic studies in carbohydrate-deficient glycoprotein syndrome type I. Fiumara A, et al. **Thromb Haemost** 1996 Oct;76(4):502-4

COMPLICATIONS

Evolution of ophthalmic and electrophysiological findings in identical twin sisters with the carbohydrate deficient glycoprotein syndrome type 1 over a period of 14 years. Casteels I, et al. **Br J Ophthalmol** 1996 Oct;80(10):900-2

Olivopontocerebellar atrophy leading to recognition of carbohydrate-deficient glycoprotein syndrome type I. Pavone L, et al. **J Neurol** 1996 Oct;243(10):700-5

DIAGNOSIS

Familial Dandy-Walker variant in CDG syndrome [letter; comment] Fiumara A, et al. **Am J Med Genet** 1996 May 17;63(2):412-3. Comment on: Am J Med Genet 1994 Oct 1;52(4):406-15.

Diagnostic value of Western blotting in carbohydrate-deficient glycoprotein syndrome. Seta N, et al. **Clin Chim Acta** 1996 Oct 29;254(2):131-40

Apolipoprotein J deficiency in types I and IV carbohydrate-deficient glycoprotein syndrome (glycanosis CDG) [letter] Heyne K, et al. **Eur J Pediatr** 1997 Mar; 156(3):247-8

Hyperglycinaemia in a child with carbohydrate-deficient glycoprotein syndrome type I. Subhedar NV, et al. **J Inherit Metab Dis** 1996;19(6):796-7

Congenital nephrotic syndrome: a novel phenotype of type I carbohydrate-deficient glycoprotein syndrome. van der Knaap MS, et al. **J Inherit Metab Dis** 1996;19(6):787-91

Carbohydrate deficient glycoprotein (CDG) syndrome type I. Jaeken J, et al. **J Med Genet** 1997 Jan;34(1):73-6

[Jaeken's (CDG) syndrome in two sisters] Midro AT, et al. **Pediatr Pol** 1996 Jul;71(7):621-8 (Eng. Abstr.) **(Pol)**

DIET THERAPY

Oral ingestion of mannose elevates blood mannose levels: a first step toward a potential therapy for carbohydrate-deficient glycoprotein syndrome type I. Alton G, et al. **Biochem Mol Med** 1997 Apr;60(2):127-33

GENETICS

Mutations in the MGAT2 gene controlling complex N-glycan synthesis cause carbohydrate-deficient glycoprotein syndrome type II, an autosomal recessive disease with defective brain development. Tan J, et al. **Am J Hum Genet** 1996 Oct;59(4):810-7

Comparison of PMM1 with the phosphomannomutases expressed in rat liver and in human cells. Pirard M, et al. **FEBS Lett** 1997 Jul 14;411(2-3):251-4

Fine mapping of the gene for carbohydrate-deficient glycoprotein syndrome, type I (CDG1): linkage disequilibrium and founder effect in Scandinavian families. Bjursell C, et al. **Genomics** 1997 Feb 1;39(3):247-53

Evidence for genetic heterogeneity in the carbohydrate-deficient glycoprotein syndrome type I (CDG1). Matthijs G, et al. **Genomics** 1996 Aug 1; 35(3):597-9

Mutations in PMMM2, a phosphomannomutase gene on chromosome 16p13, in carbohydrate-deficient glycoprotein type I syndrome (Jaeken syndrome) [published erratum appears in Nat Genet 1997 Jul;16(3):316] Matthijs G, et al. **Nat Genet** 1997 May;16(1):88-92

METABOLISM

Abnormal metabolism of mannose in families with carbohydrate-deficient glycoprotein syndrome type 1. Panneerselvam K, et al. **Biochem Mol Med** 1997 Aug; 61(2):161-7

The identification of abnormal glycoforms of serum transferrin in carbohydrate deficient glycoprotein syndrome type I by capillary zone electrophoresis. Iourin O, et al. **Glycoconj J** 1996 Dec;13(6):1031-42

A partial deficiency of dehydrodolichol reduction is a cause of carbohydrate-deficient glycoprotein syndrome type I. Ohkura T, et al. **J Biol Chem** 1997 Mar 14;272(11):6868-75

Microheterogeneity of serum glycoproteins and their liver precursors in patients with carbohydrate-deficient glycoprotein syndrome type I: apparent deficiencies in clusterin and serum amyloid P [see comments] Henry H, et al. **J Lab Clin Med** 1997 Apr;129(4):412-21. Comment in: J Lab Clin Med 1997 Apr;129(4):394-5.

[Metabolic disorders in patients with primary carbohydrate deficient glycoprotein syndrome] Zwierz K, et al. **Postepy Hig Med Dosw** 1997;51(2):205-26 (79 ref.) (Eng. Abstr.) **(Pol)**

PATHOLOGY

Olivopontocerebellar atrophy in carbohydrate-deficient glycoprotein syndrome. Horoupian D. **Pediatr Pathol Lab Med** 1995 Jan-Feb;15(1):175-9

CARBOHYDRATE DEHYDROGENASES

ANALYSIS

Localization of cellobiose dehydrogenase in cellulose-grown cultures of Phanerochaete chrysosporium. Igarashi K, et al. **Fungal Genet Biol** 1997 Apr;21(2):214-22

BIOSYNTHESIS

Tissue-specific accumulation of MURB, a protein encoded by MuDR, the autonomous regulator of the Mutator transposable element family. Donlin MJ, et al. **Plant Cell** 1995 Dec;7(12):1989-2000

Overproduction and one-step purification of Escherichia coli UDP-N-acetylglucosamine enolpyruvyl reductase. Tayeh MA, et al. **Protein Expr Purif** 1995 Dec;6(6):757-62

CHEMISTRY

Structural and mechanistic aspects of a new family of dehydrogenases, the beta-hydroxyacid dehydrogenases. Hawes JW, et al. **Adv Exp Med Biol** 1997;414:395-402 (7 ref.)

Resonance Raman spectroscopic studies of cellobiose dehydrogenase from Phanerochaete chrysosporium. Cohen JD, et al. **Arch Biochem Biophys** 1997 May 15;341(2):321-8

Spectroscopic properties of Escherichia coli UDP-N-acetylenolpyruvylglucosamine reductase. Axley MJ, et al. **Biochemistry** 1997 Jan 28;36(4):812-22

X-ray crystal structures of the S229A mutant and wild-type MurB in the presence of the substrate enolpyruvyl-UDP-N-acetylglucosamine at 1.8-A resolution. Benson TE, et al. **Biochemistry** 1997 Jan 28; 36(4):806-11

Localizing the NADP+ binding site on the MurB enzyme by NMR [letter] Farmer BT 2nd, et al. **Nat Struct Biol** 1996 Dec;3(12):995-7

The structure of the substrate-free form of MurB, an essential enzyme for the synthesis of bacterial cell walls. Benson TE, et al. **Structure** 1996 Jan 15;4(1):47-54

GENETICS

Cloning of a cDNA encoding cellobiose dehydrogenase, a hemoflavoenzyme from Phanerochaete chrysosporium. Li B, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1329-35

Cellobiose dehydrogenase from Phanerochaete chrysosporium is encoded by two allelic variants. Li B, et al. **Appl Environ Microbiol** 1997 Feb;63(2):796-9

Cloning of genes coding for L-sorbose and L-sorbosone dehydrogenases from Gluconobacter oxydans and microbial production of 2-keto-L-gulonate, a precursor of L-ascorbic acid, in a recombinant G. oxydans strain. Saito Y, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):454-60

Cloning, sequencing and expression of rat liver 3-phosphoglycerate dehydrogenase. Achouri Y, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):365-70

Overexpression of the GDP-mannose dehydrogenase gene from Pseudomonas aeruginosa. Tatnell PJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):405S

Kinetic characterization of wild-type and S229A mutant MurB: evidence for the role of Ser 229 as a general acid. Benson TE, et al. **Biochemistry** 1997 Jan 28;36(4):796-805

X-ray crystal structures of the S229A mutant and wild-type MurB in the presence of the substrate enolpyruvyl-UDP-N-acetylglucosamine at 1.8-A resolution. Benson TE, et al. **Biochemistry** 1997 Jan 28; 36(4):806-11

Glucose stimulates alginate production and algD transcription in Pseudomonas aeruginosa. Ma JF, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):217-21

Cloning and characterization of the Streptomyces peucetius

CARBOHYDRATE DEHYDROGENASES

dnmZUV genes encoding three enzymes required for biosynthesis of the daunorubicin precursor thymidine diphospho-L-daunosamine. Otten SL, et al. **J Bacteriol** 1997 Jul;179(13):4446-50

Characterization of the alginate biosynthetic gene cluster in Pseudomonas syringae pv. syringae. Peñaloza-Vázquez A, et al. **J Bacteriol** 1997 Jul;179(14):4464-72

Identification of a fourth gene involved in dTDP-rhamnose synthesis in Streptococcus mutans. Tsukioka Y, et al. **J Bacteriol** 1997 Jul;179(13):4411-4

Developmental regulation of the alpha-glycerophosphate shuttle in porcine myocardium. Scholz TD, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1605-13

Isolation of an IHF-deficient mutant of a Pseudomonas aeruginosa mucoid isolate and evaluation of the role of IHF in algD gene expression. Delic-Attree I, et al. **Microbiology** 1996 Oct;142 (Pt 10):2785-93

Identification and characterization of AlgZ, an AlgT-dependent DNA-binding protein required for Pseudomonas aeruginosa algD transcription. Baynham PJ, et al. **Mol Microbiol** 1996 Oct;22(1):97-108

Cloning, sequence and mutagenesis of the structural gene of Pseudomonas aeruginosa CysB, which can activate algD transcription. Delic-Attree I, et al. **Mol Microbiol** 1997 Jun;24(6):1275-84

Genetic analysis of the transcriptional arrangement of Azotobacter vinelandii alginate biosynthetic genes: identification of two independent promoters. Lloret L, et al. **Mol Microbiol** 1996 Aug;21(3):449-57

ISOLATION & PURIFICATION

Pyranose 2-dehydrogenase, a novel sugar oxidoreductase from the basidiomycete fungus Agaricus bisporus. Volc J, et al. **Arch Microbiol** 1997 Feb-Mar;167(2-3):119-25

Overproduction and one-step purification of Escherichia coli UDP-N-acetylglucosamine enolpyruvyl reductase. Tayeh MA, et al. **Protein Expr Purif** 1995 Dec;6(6):757-62

METABOLISM

Structural and mechanistic aspects of a new family of dehydrogenases, the beta-hydroxyacid dehydrogenases. Hawes JW, et al. **Adv Exp Med Biol** 1997;414:395-402 (7 ref.)

Pyranose 2-dehydrogenase, a novel sugar oxidoreductase from the basidiomycete fungus Agaricus bisporus. Volc J, et al. **Arch Microbiol** 1997 Feb-Mar;167(2-3):119-25

The stereospecificity of hydrogen transfer to NAD(P)+ catalyzed by lactol dehydrogenases. Mostad SB, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):681-6

Studies of cellulose binding by cellobiose dehydrogenase and a comparison with cellobiohydrolase 1. Henriksson G, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):833-8

Kinetic characterization of wild-type and S229A mutant MurB: evidence for the role of Ser 229 as a general acid. Benson TE, et al. **Biochemistry** 1997 Jan 28;36(4):796-805

The mechanism of velocity modulated allosteric regulation in D-3-phosphoglycerate dehydrogenase. Site-directed mutagenesis of effector binding site residues. Al-Rabiee R, et al. **J Biol Chem** 1996 Sep 20;271(38):23235-8

Characterization of NADP+ binding to perdeuterated MurB: backbone atom NMR assignments and chemical-shift changes. Constantine KL, et al. **J Mol Biol** 1997 Apr 18;267(5):1223-46

Preliminary investigations of an amperometric oligosaccharide dehydrogenase-based electrode for the detection of glucose and some other low molecular weight saccharides. Ruzgas T, et al. **J Mol Recognit** 1996 Sep-Dec; 9(5-6):480-4

CARBOHYDRATE ISOMERASES

ANALYSIS

Enzymatic synthesis of UDP-galactofuranose and an assay for UDP-galactopyranose mutase based on high-performance liquid chromatography. Lee R, et al. **Anal Biochem** 1996 Nov 1;242(1):1-7

ANTAGONISTS & INHIBITORS

Electron paramagnetic resonance of D-xylose isomerase: evidence for metal ion movement induced by binding of cyclic substrates and inhibitors. Bogumil R, et al. **Biochemistry** 1997 Mar 4;36(9):2345-52

CHEMISTRY

The tentative (alpha/beta)8-barrel in the pathway of beta-carotene biosynthesis: lycopene cyclase has an amino acid sequence similar to that of xylose isomerase [letter] Janeček S. **Biochem J** 1996 Nov 1;319 (Pt 3):1005-6

Electron paramagnetic resonance of D-xylose isomerase: evidence for metal ion movement induced by binding of cyclic substrates and inhibitors. Bogumil R, et al. **Biochemistry** 1997 Mar 4;36(9):2345-52

Crystal structure at 2.0 A resolution of phosphoribosyl anthranilate isomerase from the hyperthermophile Thermotoga maritima: possible determinants of protein stability. Hennig M, et al. **Biochemistry** 1997 May 20; 36(20):6009-16

Crystallization and preliminary X-ray diffraction studies of N-acyl-D-glucosamine 2-epimerase from porcine kidney. Maru I, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):481-2

Phosphoribosyl anthranilate isomerase from Thermotoga maritima is an extremely stable and active homodimer. Sterner R, et al. **Protein Sci** 1996 Oct;5(10):2000-8

Exploring the interaction between D-xylose isomerase and D-xylose by free energy calculation. Hu H, et al. **Proteins** 1996 Oct;26(2):157-66

GENETICS

Cloning and expression of the gene for xylose isomerase from Thermus flavus AT62 in Escherichia coli. Park BC, et al. **Appl Biochem Biotechnol** 1997 Jan;62(1):15-27

Ethanolic fermentation of xylose with Saccharomyces cerevisiae harboring the Thermus thermophilus xylA gene, which expresses an active xylose (glucose) isomerase. Walfridsson M, et al. **Appl Environ Microbiol** 1996 Dec; 62(12):4648-51

Organization of the XYL genes in a thermophilic Bacillus species. Liao WX, et al. **Biochem Mol Biol Int** 1996 Aug; 39(5):1049-62

Cloning and characterization of the first two genes of the non-oxidative part of the Saccharomyces cerevisiae pentose-phosphate pathway. Miosga T, et al. **Curr Genet** 1996 Nov;30(5):404-9

Molecular cloning and expression of the glucose/xylose isomerase gene from Streptomyces sp. NCIM 2730 in Escherichia coli. Bhosale SH, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):95-100

The rfaD locus: a region of rearrangement in Vibrio cholerae O139. Vimont S, et al. **Gene** 1997 Jan 31;185(1):43-7

Role of the Escherichia coli O157:H7 O side chain in adherence and analysis of an rfb locus. Bilge SS, et al. **Infect Immun** 1996 Nov;64(11):4795-801

Identification of the ADP-L-glycero-D-manno-heptose-6-epimerase (rfaD) and heptosyltransferase II (rfaF) biosynthesis genes from nontypeable Haemophilus influenzae 2019. Nichols WA, et al. **Infect Immun** 1997 Apr;65(4):1377-86

Cloning and characterization of the Streptomyces peucetius dnmZUV genes encoding three enzymes required for biosynthesis of the daunorubicin precursor thymidine diphospho-L-daunosamine. Otten SL, et al. **J Bacteriol** 1997 Jul;179(13):4446-50

A new Azotobacter vinelandii mannuronan C-5-epimerase gene (algG) is part of an alg gene cluster physically organized in a manner similar to that in Pseudomonas aeruginosa. Rehm BH, et al. **J Bacteriol** 1996 Oct; 178(20):5884-9

The trpF nucleotide sequence and its promoter analysis in Pseudomonas aeruginosa. Murata T. **Microbiol Immunol** 1996;40(2):107-14

Involvement of the ribulosephosphate epimerase gene in the dnaA and dnaR functions for initiation of chromosome replication in Escherichia coli. Sakakibara Y. **Mol Microbiol** 1997 May;24(4):793-801

Regulation of expression, genetic organization and substrate specificity of xylose uptake in Bacillus megaterium. Schmiedel D, et al. **Mol Microbiol** 1997 Mar;23(5):1053-62

Evidence for the existence of a sheep and a goat line of Teladorsagia circumcincta (Nematoda). Gasnier N, et al. **Parasitol Res** 1996;82(6):546-50

[Promoter activity detection and transcription initiation site determination of the D-xylose isomerase gene of Streptomyces diastaticus strain No.7 M1033] Hang J, et al. **I Chuan Hsueh Pao** 1995;22(3):239-44 (Eng. Abstr.) **(Chi)**

ISOLATION & PURIFICATION

Purification and characterization of encystment-induced glucosamine 6-phosphate isomerase in Giardia. Steimle PA, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):149-53

METABOLISM

High fructose syrups: evaluation of a new glucose isomerase from Streptomyces sp. Gusek TW, et al. **Adv Exp Med Biol** 1997;415:17-25

Purification and cloning of a thermostable xylose (glucose) isomerase with an acidic pH optimum from Thermoanaerobacterium strain JW/SL-YS 489. Liu SY, et al. **J Bacteriol** 1996 Oct;178(20):5938-45

A bifunctional enzyme catalyzes the first two steps in N-acetylneuraminic acid biosynthesis of rat liver. Purification and characterization of UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase. Hinderlich S, et al. **J Biol Chem** 1997 Sep 26;272(39):24313-8

A bifunctional enzyme catalyzes the first two steps in N-acetylneuraminic acid biosynthesis of rat liver. Molecular cloning and functional expression of UDP-N-acetyl-glucosamine 2-epimerase/N-acetylmannosamine kinase. Stäsche R, et al. **J Biol Chem** 1997 Sep 26;272(39):24319-24

Biosynthesis of riboflavin: 3,4-dihydroxy-2-butanone-4-phosphate synthase. Richter G, et al. **Methods Enzymol** 1997;280:374-82

Overexpression of D-myo-inositol-3-phosphate synthase leads to elevated levels of inositol in Arabidopsis. Smart CC, et al. **Plant Mol Biol** 1997 Mar;33(5):811-20

The evolution of sugar isomerases. Banerjee S, et al. **Protein Eng** 1995 Dec;8(12):1189-95

Role of electrostatics at the catalytic metal binding site in xylose isomerase action: Ca(2+)-inhibition and metal competence in the double mutant D254E/D256E. Fuxreiter M, et al. **Proteins** 1997 Jun;28(2):183-93

The reaction pathway of the isomerization of D-xylose catalyzed by the enzyme D-xylose isomerase: a theoretical study. Hu H, et al. **Proteins** 1997 Apr;27(4):545-55

CARBOHYDRATE LINKAGE see **CARBOHYDRATE CONFORMATION**

CARBOHYDRATE METABOLISM, INBORN ERRORS

Disorders of gluconeogenesis. van den Berghe G. **J Inherit Metab Dis** 1996;19(4):470-7 (26 ref.)

Disaccharide digestion and maldigestion. Gudmand-Høyer E, et al. **Scand J Gastroenterol Suppl** 1996;216:111-21 (63 ref.)

COMPLICATIONS

"Sweetening the pot" [letter; comment] Lloyd-Still JD, et al. **J Pediatr** 1997 Mar;130(3):503-4. Comment on: J Pediatr 1996 Jun;128(6):753-6.

ENZYMOLOGY

Autosomal recessive phosphorylase kinase deficiency in liver, caused by mutations in the gene encoding the beta subunit (PHKB). van den Berg IE, et al. **Am J Hum Genet** 1997 Sep;61(3):539-46

Adenylosuccinate lyase deficiency and disorders of saccharide metabolism; experience with combined screening test [letter] [published erratum appears in Clin Chim Acta 1996 Nov 15;255(1):89] Valik D, et al. **Clin Chim Acta** 1996 May 30;249(1-2):197-200

IMMUNOLOGY

Antibodies to lactoferrin--a possible link between cow's milk intolerance and autoimmune disease. Brock JH, et al. **Biochem Soc Trans** 1997 May;25(2):317S

METABOLISM

In vivo oxidation of [13C]galactose in patients with galactose-1-phosphate uridyltransferase deficiency. Berry GT, et al. **Biochem Mol Med** 1995 Dec;56(2):158-65

Inherited disorders of glycoprotein synthesis: cell biological insights. McDowell G, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):145-57 (89 ref.)

CARBOHYDRATE OXIDOREDUCTASES see **CARBOHYDRATE DEHYDROGENASES**

CARBOHYDRATE SEQUENCE

1H NMR analysis of novel sialylated and fucosylated lactose-based oligosaccharides having linear GlcNAc(beta 1-6) Gal and Neu5Ac(alpha 2-6) GlcNAc sequences. Bailey D, et al. **Carbohydr Res** 1997 May 19;300(4):289-300

Carbohydrate sequence analysis by electrospray ionization-mass spectrometry. Reinhold VN, et al. **Methods Enzymol** 1996;271:377-402 (26 ref.)

Oligosaccharide sequencing technology. Rudd PM, et al. **Nature** 1997 Jul 10;388(6638):205-7 (27 ref.)

CARBOHYDRATES

see related
DIETARY CARBOHYDRATES

Nomenclature of carbohydrates (recommendations 1996). McNaught AD. **Adv Carbohydr Chem Biochem** 1997; 52:43-177

Carbohydrates and glycoconjugates. **Curr Opin Struct Biol** 1996 Oct;6(5):725-32

Design and synthesis of carbohydrate-based inhibitors of protein-carbohydrate interactions. von Itzstein M, et al. **Curr Opin Struct Biol** 1996 Oct;6(5):703-9 (44 ref.)

IUPAC-IUBMB Joint Commission on Biochemical Nomenclature (JCBN) and Nomenclature Committee of IUBMB (NC-IUBMB). Newsletter 1996. Liébecq C. **Eur J Biochem** 1997 Jul 15;247(2):733-9

Second electronic glycoscience conference [letter] Wilson I. **Glycoconj J** 1996 Jun;13(3):vi-vii

Modular organization of carbohydrate recognition domains in animal lectins. Kishore U, et al. **Matrix Biol** 1997 Mar; 15(8-9):583-92 (63 ref.)

Effect of CHO ingestion on exercise metabolism and performance in different ambient temperatures. Febbraio MA, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1380-7

Effects of caffeine- and sugar-free beverages on psychomotor performance. Meliska CJ, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):912-4

Making a fitting choice: common aspects of sugar-binding sites in plant and animal lectins. Drickamer K. **Structure** 1997 Apr 15;5(4):465-8 (30 ref.)

[Adhesion molecules and carbohydrates in cancer metastasis] Kawaguchi T. **Rinsho Byori** 1996 Dec;44(12):1138-46 (26 ref.) (Eng. Abstr.) **(Jpn)**

[Saccharide sensing using a boronic-acid probe] Takeuchi M, et al. **Tanpakushitsu Kakusan Koso** 1996 Dec; 41(16):2584-92 (19 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Reduction of extraneural scarring by ADCON-T/N after surgical intervention. Petersen J, et al. **Neurosurgery** 1996 May;38(5):976–83; discussion 983–4

Pre-stress carbohydrate solution prevents fatal outcome after hemorrhage in 24-hour food-deprived rats. Nettelbladt CG, et al. **Nutrition** 1996 Oct;12(10):696–9

ADVERSE EFFECTS

Hypercapnic respiratory acidosis precipitated by hypercaloric carbohydrate infusion in resolving septic acute respiratory distress syndrome: a case report. Jih KS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov; 58(5):359–65

ANALYSIS

Carbohydrate composition of stereociliary glycocalyx of the utricle of guinea pig inner ear. Suzuki H, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):12–6

Periodate treatment of Anisakis simplex allergens. Moneo I, et al. **Allergy** 1997 May;52(5):565–9

Carbohydrate chromatography: towards yoctomole sensitivity. Davies MJ, et al. **Biomed Chromatogr** 1996 Nov–Dec;10(6):285–9 (45 ref.)

Molecular recognition of saccharides using synthesized glycated surface active reagents. Hanai T, et al. **Biomed Chromatogr** 1996 Jan–Feb;10(1):25–8

The carbohydrate moiety of factor V modulates inactivation by activated protein C. Fernández JA, et al. **Blood** 1997 Jun 15;89(12):4348–54

Acidogenic potential and total salivary carbohydrate content of expectorants following the consumption of some cereal-based foods and fruits. Pollard MA, et al. **Caries Res** 1996;30(2):132–7

Analysis of the distribution of glycoconjugates in the digestive gland of the bivalve mollusc Mytilus galloprovincialis by conventional and lectin histochemistry. Robledo Y, et al. **Cell Tissue Res** 1997 Jun;288(3):591–602

Recent advances in capillary electrophoresis of carbohydrates. El Rassi Z, et al. **Electrophoresis** 1996 Feb; 17(2):275–301 (122 ref.)

Identification of lectin binding sites in the rat brain. Zambenedetti P, et al. **Glycoconj J** 1996 Jun;13(3):341–6

Histochemical study of expression of lectin-reactive carbohydrate epitopes and glycoligand-binding sites in normal human appendix vermiformis, colonic mucosa, acute appendicitis and colonic adenoma. Brinck U, et al. **Histol Histopathol** 1996 Oct;11(4):919–30

Sugar residues content and distribution in atrophic and hyperplastic postmenopausal human endometrium: lectin histochemistry. Gheri G, et al. **Histol Histopathol** 1996 Oct; 11(4):861–7

Lectin histochemistry of the submandibular and sublingual salivary glands in rats. Hirshberg A, et al. **Histol Histopathol** 1996 Oct;11(4):999–1005

Identification of surface coat carbohydrates in Blastocystis hominis by lectin probes. Lanuza MD, et al. **Int J Parasitol** 1996 May;26(5):527–32

Detection of added beet sugar in concentrated and single strength fruit juices by deuterium nuclear magnetic resonance (SNIF-NMR method): collaborative study. Martin GG, et al. **J AOAC Int** 1996 Jul–Aug;79(4):917–28

Structures of the sugar chains of recombinant macrophage colony-stimulating factor produced in Chinese hamster ovary cells. Ushida Y, et al. **J Biochem (Tokyo)** 1997 Jul; 122(1):148–56

Simultaneous determination of soluble sugars and organic acids as their trimethylsilyl derivatives in apricot fruits by gas-liquid chromatography. Bartolozzi F, et al. **J Chromatogr A** 1997 Jan 10;758(1):99–107

Determination of carbohydrates by high-performance capillary electrophoresis with indirect absorbance detection. Lee YH, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):87–97

Datura stramonium lectin staining of glial associated extracellular material in insect brains. Hähnlein I, et al. **J Comp Neurol** 1996 Dec 9;376(2):175–87

Polysulfated carbohydrates analyzed as ion-paired complexes with basic peptides and proteins using electrospray negative ionization mass spectrometry. Siegel MM, et al. **J Mass Spectrom** 1997 Jul;32(7):760–72

Detection of sugar residues in rabbit embryo teeth with lectin-horseradish peroxidase conjugate: II. A light microscopal study. Lemus D, et al. **J Morphol** 1997 Feb; 231(2):175–84

Analysis of ibuprofen metabolites by semi-microcolumn liquid chromatography with ultraviolet absorption and pulsed amperometric detectors. Kimura T, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1521–6

A carbohydrate antigen of Clonorchis sinensis recognized by a species-specific monoclonal antibody. Yong TS, et al. **Korean J Parasitol** 1996 Dec;34(4):279–81

Detection in liquid chromatography. Szulc M, et al. **Methods Enzymol** 1996;270:175–200

The six N-linked carbohydrates of the lutropin/choriogonadotropin receptor are not absolutely required for correct folding, cell surface expression, hormone binding, or signal transduction. Davis DP, et al. **Mol Endocrinol** 1997 May;11(5):550–62

Internal carbohydrate complexity of the oligosaccharide chains of recombinant human follicle stimulating hormone (Puregon, Org 32489): a comparison with Metrodin and Metrodin-HP. Harris SD, et al. **Mol Hum Reprod** 1996 Oct;2(10):807–11

How to find, identify and quantitate the sugars on proteins. Gooley AA, et al. **Nature** 1997 Feb 6;385(6616):557–9

Complex carbohydrates in shell precursor globules of the vitellarium and at the eggshell of Hymenolepis microstoma (Cestoda). Schmidt J. **Parasitol Res** 1996;82(2):157–64

Surface charge and surface carbohydrates of Cyptobia salmositica virulent and avirulent forms and of C. bullocki (Kinetoplastida: Cryptobiidae). Vommaro RC, et al. **Parasitol Res** 1997;83(7):698–705

Content of starch and sugars and in vitro digestion of starch by alpha-amylase in five minor millets. Krishnakumari S, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):327–33

Variations in pigment and carbohydrate content of gallbladder bile affect accurate quantitation of total protein when using the fluorescamine method. Ginanni Corradini S, et al. **Scand J Gastroenterol** 1997 Apr;32(4):340–9

[The lipid and carbohydrate components of mycobacteria and the methods for their determination] Gizatulina NM. **Probl Tuberk** 1996;(4):59–62 (42 ref.) **(Rus)**

BIOSYNTHESIS

Human T lymphocytes and hematopoietic cell lines express CD24-associated carbohydrate epitopes in the absence of CD24 mRNA or protein. Williams LA, et al. **Blood** 1996 Oct 15;88(8):3048–55

Persistent correlation between expression of a sulfated carbohydrate antigen and adrenergic differentiation in cultures of quail trunk neural crest cells. Hennig AK, et al. **Differentiation** 1995 Dec;59(5):299–306

Lectin binding reveals divergent carbohydrate expression in human and mouse Peyer's patches. Sharma R, et al. **Histochem Cell Biol** 1996 Jun;105(6):459–65

Carbohydrate and LPG expression in Leishmania viannia subgenus. Muskus C, et al. **J Parasitol** 1997 Aug;83(4):671–8

BLOOD

Hormone-metabolic status in moderately smoking breast cancer patients. Berstein LM, et al. **Acta Oncol** 1997; 36(2):137–40

Digestive and metabolic effects of potato and maize fibres in human subjects. Cherbut C, et al. **Br J Nutr** 1997 Jan; 77(1):33–46

Growth hormone action is blunted by acidosis in experimental uremia or acid load. Maniar S, et al. **Clin Nephrol** 1996 Jul;46(1):72–6

Carbohydrate and lipid metabolism in endogenous hypercortisolism: shared features with metabolic syndrome X and NIDDM. Friedman TC, et al. **Endocr J** 1996 Dec; 43(6):645–55

Cardiac and extracardiac complications in infants of diabetic mothers and their relation to parameters of carbohydrate metabolism. Oberhoffer R, et al. **Eur J Pediatr** 1997 Apr; 156(4):262–5

Carbohydrate ingestion improves endurance performance during a 1 h simulated cycling time trial. el-Sayed MS, et al. **J Sports Sci** 1997 Apr;15(2):223–30

Nadolol-glibenclamide interaction: relevance to carbohydrate metabolism in hyperglycaemic rats. Abdel Aziz AH, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):11–5

[Biochemical changes in tuberculosis patients with different somatic types] Malkova MV. **Probl Tuberk** 1997;(3):53–6 (Eng. Abstr.) **(Rus)**

[The characteristics of disorders in carbohydrate metabolism and insulin and C-peptide secretion in patients with chronic glomerulonephritis in developing chronic kidney failure] Trusov VV, et al. **Ter Arkh** 1996;68(6):21–4 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Carbohydrate natural products as a scaffolding for the preparation of potential neuraminidase inhibitors. Maione AM, et al. **Arch Pharm (Weinheim)** 1997 Jan–Feb; 330(1–2):17–20

Chemical and chemo-enzymatic synthesis of the alpha-Neu p5Ac-(2-->6)-beta-D-GalpNAc-(1-->4)-beta-D-GlcpNAc-(1-->2)-alpha-D-Manp element that is part of N-linked carbohydrate chains of human lutropin. van Seeventer PB, et al. **Carbohydr Res** 1997 May 12;300(2):127–38

CHEMISTRY

Chemoenzymatic synthesis: application to the study of carbohydrate recognition. Wong CH. **Acta Chem Scand** 1996 Mar;50(3):211–8 (26 ref.)

Maurice Stacey 1907–1994. Finch P, et al. **Adv Carbohydr Chem Biochem** 1997;52:1–41

Analysis of pyridylaminated O-linked sugar chains by two-dimensional sugar mapping. Kuraya N, et al. **Anal Biochem** 1996 Jan 15;233(2):205–11

Preparation of pyridylaminated O-linked sugar chains from glycoproteins blotted on a polyvinylidene difluoride membrane and application to human granulocyte colony-stimulating factor. Oh-eda M, et al. **Anal Biochem** 1996 May 1;236(2):369–71

Preparation of neoglycolipids with a definite sugar chain moiety from glycoproteins. Ozaki Y, et al. **Anal Biochem** 1996 Oct 15;241(2):151–5

Quantitative determination of amino acid levels in neutral and glucosamine-containing carbohydrate polymers. Palace GP, et al. **Anal Biochem** 1997 Jan 15;244(2):393–403

Capillary electrophoresis of carboxylated carbohydrates. III. Selective precolumn derivatization of glycosaminoglycan disaccharides with 7-aminonaphthalene-1,3-disulfonic acid fluorescing tag for ultrasensitive laser-induced fluorescence detection. el Rassi Z, et al. **Anal Biochem** 1997 Jan 15; 244(2):283–90

Role of carbohydrate structures in the binding of beta1-latency-associated peptide to ligands. Yang Y, et al. **Biochemistry** 1997 Sep 30;36(39):11923–32

Simple preparation of nanoparticles coated with carbohydrate-carrying polymers. Cho CS, et al. **Biomaterials** 1997 Feb;18(4):323–6

Strength in numbers: non-natural polyvalent carbohydrate derivatives. Kiessling LL, et al. **Chem Biol** 1996 Feb; 3(2):71–7

Comparative study of carbohydrate portion of gastrointestinal mucins using enzyme-linked lectin-binding assay (ELLA). Ohara S, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Feb; 116(2):167–72

The coming of age for oligosaccharide ligands and databases for saccharide structures [editorial] Feizi T, et al. **Curr Opin Struct Biol** 1996 Oct;6(5):659–62 (14 ref.)

Workshop to establish databases of carbohydrate spectra [news] **Glycobiology** 1996 Jul;6(5):vii–x

Workshop to establish databases of carbohydrate spectra [letter] Albersheim P, et al. **Glycoconj J** 1996 Aug;13(4):i–iii

Complete 1H NMR assignments of synthetic glycopeptides from the carbohydrate-protein linkage region of serglycins. Curto EV, et al. **Glycoconj J** 1996 Aug;13(4):599–607

Ceramide-1-phosphate sugars: new types of glycophospholipids. Martin TJ, et al. **Glycoconj J** 1996 Aug;13(4):547–53

Carbohydrate-protein interaction studies by laser photo CIDNP NMR methods. Siebert HC, et al. **Glycoconj J** 1997 Jun;14(4):531–4

Phosphorous carbohydrates on chimeric CD22, CD44 and CD62L. Jönsson G, et al. **Immunol Lett** 1996 Aug; 52(1):31–5

Structures of the sugar chains of recombinant macrophage colony-stimulating factor produced in Chinese hamster ovary cells. Ushida Y, et al. **J Biochem (Tokyo)** 1997 Jul; 122(1):148–56

Determination of the absolute configuration of sugar residues using gas chromatography. Method with potential for elimination of references. Lindqvist L, et al. **J Chromatogr A** 1997 May 9;769(2):253–61

Determination of carbohydrates by high-performance capillary electrophoresis with indirect absorbance detection. Lee YH, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):87–97

Does matrix-assisted laser desorption/ionization mass spectrometry allow analysis of carbohydrate heterogeneity in glycoproteins? A study of natural human interferon-gamma. Mørtz E, et al. **J Mass Spectrom** 1996 Oct;31(10):1109–18

Intestinal absorption of sugar-coupled somatostatin analogs. Fricker G, et al. **J Pharm Sci** 1996 Nov;85(11):1211–4

Inhibitory effect of sugars and polyols on the metal-catalyzed oxidation of human relaxin. Li S, et al. **J Pharm Sci** 1996 Aug;85(8):868–72

Effects of reducing sugars on the chemical stability of human relaxin in the lyophilized state. Li S, et al. **J Pharm Sci** 1996 Aug;85(8):873–7

The analysis of fluorophore-labeled carbohydrates by polyacrylamide gel electrophoresis. Jackson P. **Mol Biotechnol** 1996 Apr;5(2):101–23 (180 ref.)

Effects of sugars and polymers on crystallization of poly(ethylene glycol) in frozen solutions: phase separation between incompatible polymers. Izutsu K, et al. **Pharm Res** 1996 Sep;13(9):1393–400

Functions for MHC class I carbohydrates inside and outside the cell. Parham P. **Trends Biochem Sci** 1996 Nov; 21(11):427–33 (54 ref.)

C-H...O hydrogen bonding in biology. Wahl MC, et al. **Trends Biochem Sci** 1997 Mar;22(3):97–102 (35 ref.)

Lectin-carbohydrate interaction in the immune system. Ni Y, et al. **Vet Immunol Immunopathol** 1996 Dec; 55(1–3):205–23 (135 ref.)

[Structural studies of carbohydrate lipopolysaccharide sections in Hafnia alvei] Katzenellenbogen E. **Postepy Hig Med Dosw** 1996;50(5):431–45 (Eng. Abstr.) **(Pol)**

[The interaction of peripheral blood leukocytes with alpha1-acid glycoprotein, its carbohydrate chains and neoglycoconjugates] Shiian SD, et al. **Gematol Transfuziol** 1996 Mar–Apr;41(2):24–9 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

International Union of Pure and Applied Chemistry and International Union of Biochemistry and Molecular Biology. Joint Commission on Biochemical Nomenclature. Nomenclature of carbohydrates. McNaught AD. **Carbohydr Res** 1997 Jan 2;297(1):1–92

DIAGNOSTIC USE

First Cuban symposium on carbohydrates as vaccines,

diagnostics and therapeutics [letter] Cremata JA. **Glycoconj J** 1995 Dec;12(6):iv–v

GENETICS

Mutants of human choriogonadotropin lacking N-glycosyl chains in the alpha-subunit. 1. Mechanism for the differential action of the N-linked carbohydrates. Purohit S, et al. **Biochemistry** 1997 Oct 7;36(40):12355–63

Carbohydrate regulation of hepatic gene expression. Evidence against a role for the upstream stimulatory factor. Kaytor EN, et al. **J Biol Chem** 1997 Mar 14;272(11):7525–31

IMMUNOLOGY

Periodate treatment of Anisakis simplex allergens. Moneo I, et al. **Allergy** 1997 May;52(5):565–9

Carbohydrate recognition by Mycoplasma pneumoniae and pathologic consequences. Feizi T, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S133–6 (34 ref.)

Alterations of Tamm-Horsfall protein immunoreactivity after partial desialylation and deglycosylation. Grabska T, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):241–8

Inhibitory effects of thymus-independent type 2 antigens on MHC class II-restricted antigen presentation: comparative analysis of carbohydrate structures and the antigen presenting cell. González-Fernández M, et al. **Cell Immunol** 1997 Feb 25;176(1):1–13

First Cuban symposium on carbohydrates as vaccines, diagnostics and therapeutics [letter] Cremata JA. **Glycoconj J** 1995 Dec;12(6):iv–v

Poor biologic activity of cross-reactive IgE directed to carbohydrate determinants of glycoproteins. van der Veen MJ, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):327–34

Use of monoclonal antibodies for weak affinity chromatography. Ohlson S, et al. **J Chromatogr A** 1997 Jan 17;758(2):199–208

Detection of antibody to C-carbohydrate of group A streptococci with enzyme-treated whole bacterial cells as antigen for ELISA. Thakur A, et al. **J Med Microbiol** 1996 Sep;45(3):214–8

Dual action of a carbohydrate epitope on afferent and efferent axons in cortical development. Henke-Fahle S, et al. **J Neurosci** 1996 Jul 1;16(13):4195–206

Cross-reactive carbohydrate determinants. Aalberse RC, et al. **Monogr Allergy** 1996;32:78–83 (29 ref.)

Carbohydrates on the surface of Echinococcus granulosus protoscoleces are immunodominant in mice. Míguez M, et al. **Parasite Immunol** 1996 Nov;18(11):559–69

Carbohydrate epitopes on Haemonchus contortus antigens. Schallig HD, et al. **Parasitol Res** 1996;82(1):38–42

Lectin-carbohydrate interaction in the immune system. Ni Y, et al. **Vet Immunol Immunopathol** 1996 Dec; 55(1-3):205–23 (135 ref.)

[Carbohydrate cell adhesion molecules] Kannagi R. **Rinsho Byori** 1996 Sep;Suppl 102:49–59 (35 ref.) **(Jpn)**

ISOLATION & PURIFICATION

TLC separation of some common sugars on silica gel plates impregnated with transition metal ions. Bhushan R, et al. **Biomed Chromatogr** 1997 Jan-Feb;11(1):59–60

The influence of buffer composition on separation efficiency and resolution in capillary electrophoresis of 8-aminonaphthalene-1,3,6-trisulfonic acid labeled monosaccharides and complex carbohydrates. Klockow A, et al. **Electrophoresis** 1996 Jan;17(1):110–9

METABOLISM

Sugars and nucleotides and the biosynthesis of thiamine. David S, et al. **Adv Carbohydr Chem Biochem** 1997; 52:267–309 (84 ref.)

Carbohydrate-lectin interactions in infectious disease. Sharon N. **Adv Exp Med Biol** 1996;408:1–8 (20 ref.)

Total and exogenous carbohydrate oxidation in obese prepubertal children. Rueda-Maza CM, et al. **Am J Clin Nutr** 1996 Dec;64(6):844–9

Hypertension and abnormalities of carbohydrate metabolism possible role of the sympathetic nervous system. Sechi LA, et al. **Am J Hypertens** 1997 Jun;10(6):678–82

Fatty acid oxidation is directly regulated by carbohydrate metabolism during exercise. Coyle EF, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E268–75

Changes in cerebral blood flow and carbohydrate metabolism during acute hyperketonemia. Hasselbalch SG, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E746–51

Glycogen: a carbohydrate source for GLUT-1 glycosylation during glucose deprivation of 3T3-L1 adipocytes. McMahon RJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E640–5

C-peptide does not alter carbohydrate metabolism in isolated mouse muscle. Shashkin PN, et al. **Am J Physiol** 1997 Feb; 272(2 Pt 1):E245–7

Fat and carbohydrate metabolism during exercise in elderly and young subjects. Sial S, et al. **Am J Physiol** 1996 Dec; 271(6 Pt 1):E983–9

Alterations in carbohydrate metabolism in dogs with nonhematopoietic malignancies. Ogilvie GK, et al. **Am J Vet Res** 1997 Mar;58(3):277–81

Lipid-carbohydrate interactions in post-absorptive non-insulin-dependent diabetic patients. Rigalleau V, et al. **Ann Nutr Metab** 1997;41(2):108–17

Structural basis of lectin-carbohydrate recognition. Weis WI, et al. **Annu Rev Biochem** 1996;65:441–73 (84 ref.)

Regulation of carbohydrate and fat metabolism during and after exercise. Holloszy JO, et al. **Annu Rev Nutr** 1996; 16:121–38 (87 ref.)

Metabolic engineering of sugar catabolism in lactic acid bacteria. de Vos WM. **Antonie Van Leeuwenhoek** 1996 Oct; 70(2-4):223–42 (132 ref.)

Analysis of biomass cellulose in simultaneous saccharification and fermentation processes. Chung YC, et al. **Appl Biochem Biotechnol** 1997 Jun;66(3):249–62

Growth and energetics of Leuconostoc mesenteroides NRRL B-1299 during metabolism of various sugars and their consequences for dextransucrase production. Dols M, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2159–65

Influence of invertase activity and glycerol synthesis and retention on fermentation of media with a high sugar concentration by Saccharomyces cerevisiae. Myers DK, et al. **Appl Environ Microbiol** 1997 Jan;63(1):145–50

Third trimester fetal growth and measures of carbohydrate and lipid metabolism in umbilical venous blood at term. Spencer JA, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jan;76(1):F21–5

Alcohol-associated diabetes mellitus. A review of the impact of alcohol consumption on carbohydrate metabolism. Greenhouse L, et al. **Arch Fam Med** 1996 Apr;5(4):229–33 (29 ref.)

Environmental and physiological factors affecting the succinate product ratio during carbohydrate fermentation by Actinobacillus sp. 130Z. Van der Werf MJ, et al. **Arch Microbiol** 1997 Jun;167(6):332–42

Effects of sub-chronic exposure to SO2 on lipid and carbohydrate metabolism in rats. Lovati MR, et al. **Arch Toxicol** 1996;70(3-4):164–73

Effect of various amounts of folic acid added to rat food on food intake and some parameters of carbohydrate metabolism. Prusiewicz-Witaszek U, et al. **Arch Vet Pol** 1994;34(3-4):261–6

Defects of insulin action on fatty acid and carbohydrate metabolism in familial combined hyperlipidemia. Aitman TJ, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr; 17(4):748–54

The metabolic profile of glucose tolerant women who have had large for gestational age babies. Moses R, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):177–80

The role of substrates in the regulation of protein metabolism. Tessari P, et al. **Baillieres Clin Endocrinol Metab** 1996 Oct; 10(4):511–32 (125 ref.)

Subunit of glycosylation-inhibiting factor is an abundant protein that binds to certain glycoproteins and sugars. Galat A, et al. **Biochem Biophys Res Commun** 1997 Aug 8; 237(1):46–51

Carbohydrate handling in the hind leg muscle of exercising rats. Adán C, et al. **Biochem Mol Biol Int** 1997 Apr; 41(4):735–51

Determination of sugar specificity of jackfruit lectin by a simple sugar-lectin binding assay using microtiter plate. Wetprasit N, et al. **Biochem Mol Biol Int** 1997 Jun; 42(2):399–408

Products of aldose reductase catalysed reduction of aldosuloses ("osones"). Walton DJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):458S

Thermodynamics of carbohydrate binding to galectin-1 from Chinese hamster ovary cells and two mutants. A comparison with four galactose-specific plant lectins. Gupta D, et al. **Biochemistry** 1996 Dec 3;35(48):15236–43

Mutants of human choriogonadotropin lacking N-glycosyl chains in the alpha-subunit. 1. Mechanism for the differential action of the N-linked carbohydrates. Purohit S, et al. **Biochemistry** 1997 Oct 7;36(40):12355–63

L-selectin-carbohydrate interactions: relevant modifications of the Lewis x trisaccharide. Sanders WJ, et al. **Biochemistry** 1996 Nov 26;35(47):14862–7

Substrate specificity of acetylxylan esterase from Schizophyllum commune: mode of action on acetylated carbohydrates. Biely P, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):209–22

Metabolism of glycosyl ureides by human intestinal brush border enzymes. Ruemmele FM, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):275–80

Multiple fucosyltransferases and their carbohydrate ligands are involved in spermatogenic cell-Sertoli cell adhesion in vitro in rats. Raychoudhury SS, et al. **Biol Reprod** 1997 May;56(5):1268–73

Influence of intraperitoneal injection of three types of hydrogel beads on expression of carbohydrate-binding sites in spleen macrophages. Smetana K Jr, et al. **Biomaterials** 1996 Dec;17(24):2335–41

Unexpected carbohydrate cross-binding by Escherichia coli heat-labile enterotoxin. Recognition of human and rabbit target cell glycoconjugates in comparison with cholera toxin. Karlsson KA, et al. **Bioorg Med Chem** 1996 Nov; 4(11):1919–28

Salt sensitivity and insulin resistance: Is there a link? Sharma AM, et al. **Blood Press Suppl** 1996;1:59–63 (33 ref.)

Maintenance of villus height and crypt depth, and enhancement of disaccharide digestion and monosaccharide absorption, in piglets fed on cows' whole milk after weaning. Pluske JR, et al. **Br J Nutr** 1996 Sep;76(3):409–22

Territorial aggression, body weight, carbohydrate metabolism and testosterone levels of wild rats maintained in laboratory colonies. Lucion AB, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1657–62

In vitro study of the effect of miglitol on carbohydrate digestion and intestinal metabolism in normal and non-insulin-dependent diabetic rats. Tormo MA, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1196–203

Regulation of myocardial carbohydrate metabolism under normal and ischaemic conditions. Potential for pharmacological interventions. Stanley WC, et al. **Cardiovasc Res** 1997 Feb;33(2):243–57 (184 ref.)

Effect of sucrose intake on numbers of bacteria in plaque expressing extracellular carbohydrate metabolizing enzymes. Mikkelsen L. **Caries Res** 1996;30(1):65–70

The hydrostatic and hydrodynamic volumes of polyols in aqueous solutions and their sweet taste. Lopez Chavez A, et al. **Chem Senses** 1997 Apr;22(2):149–61

Chainelling of deoxyribose moiety of exogenous DNA into carbohydrate metabolism: role of deoxyriboaldolase. Sgarrella F, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):253–7

Orally administered gossypol has no effect on eight hamster erythrocytic enzymes. González-Garza MT, et al. **Contraception** 1995 Dec;52(6):377–9

Carbohydrate recognition systems: functional triads in cell-cell interactions. Crocker PR, et al. **Curr Opin Struct Biol** 1996 Oct;6(5):679–91 (98 ref.)

Blood metabolite and catecholamine responses to prolonged exercise following either acute plasma volume expansion or short-term training. Helyar R, et al. **Eur J Appl Physiol** 1997;75(3):268–73

Role of decreased carbohydrate oxidation on slower rises in ventilation with increasing exercise intensity after training. MacRae HS, et al. **Eur J Appl Physiol** 1995; 71(6):523–9

Metabolic and performance adaptations to interval training in endurance-trained cyclists. Westgarth-Taylor C, et al. **Eur J Appl Physiol** 1997;75(4):298–304

Differential requirement of the yeast sugar kinases for sugar sensing in establishing the catabolite-repressed state. De Winde JH, et al. **Eur J Biochem** 1996 Oct 15;241(2):633–43

Animal lectins. Gabius HJ. **Eur J Biochem** 1997 Feb 1; 243(3):543–76 (500 ref.)

Chronic colchicine treatment does not impair glucose tolerance in familial Mediterranean fever patients. Burstein R, et al. **Eur J Clin Pharmacol** 1997;52(1):27–30

Studies by site-directed mutagenesis of the carbohydrate-binding properties of a bark lectin from Robinia pseudoacacia. Nishiguchi M, et al. **FEBS Lett** 1997 Feb 24;403(3):294–8

The regulatory effect of fermentable sugar levels on the production of leukotoxin by Actinobacillus actinomycetemcomitans. Mizoguchi K, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):161–6

The phosphoenolpyruvate:sugar phosphotransferase system of oral streptococci and its role in the control of sugar metabolism. Vadeboncoeur C, et al. **FEMS Microbiol Rev** 1997 Feb;19(3):187–207 (107 ref.)

Isolation of carbohydrate metabolic clones from cultured astrocytes. Vergé V, et al. **Glia** 1996 Nov;18(3):244–54

Transporters of nucleotide sugars, nucleotide sulfate and ATP in the Golgi apparatus membrane: where next? Hirschberg CB. **Glycobiology** 1997 Mar;7(2):169–71 (40 ref.)

Evolution of a family of receptors containing multiple C-type carbohydrate-recognition domains [letter] Taylor ME. **Glycobiology** 1997 Apr;7(3):v–viii (14 ref.)

Isolation of a novel plant lectin with an unusual specificity from Calystegia sepium. Peumans WJ, et al. **Glycoconj J** 1997 Feb;14(2):259–65

Purification and carbohydrate-binding specificity of Agrocybe cylindracea lectin. Yagi F, et al. **Glycoconj J** 1997 Feb;14(2):281–8

Indirect calorimetry: variability of consecutive baseline determinations of carbohydrate and fat utilization from gas exchange measurements. Gasic S, et al. **Horm Metab Res** 1997 Jan;29(1):12–5

Insulin and insulin-like growth factor in normal and pathological cardiovascular physiology [clinical conference] Sowers JR. **Hypertension** 1997 Mar;29(3):691–9 (157 ref.)

Carbohydrate induced modulation of cell membrane. V : ESR characterization of molecular mobility in lipid bilayer of human neutrophil plasma membrane. Hajela K, et al. **Indian J Exp Biol** 1996 Jun;34(6):513–6

Molecular mechanisms of the interaction between sperm and the zona pellucida in mammals: studies on the pig. Töpfer-Petersen E, et al. **Int J Androl** 1995 Dec;18 Suppl 2:20–6 (56 ref.)

Growth of yeasts in milk and associated changes to milk composition. Roostita R, et al. **Int J Food Microbiol** 1996 Aug;31(1-3):205–19

Carbohydrate handling in exercising muscle of obese Zucker rats. Ardévol A, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):239–49

Energy and macronutrient balances for humans in a whole body metabolic chamber without control of preceding diet and activity level. White MD, et al. **Int J Obes Relat Metab Disord** 1997 Feb;21(2):135–40

The effects of pre-exercise starch ingestion on endurance performance. Goodpaster BH, et al. **Int J Sports Med** 1996 Jul;17(5):366–72

Changes in the surface carbohydrate composition and

exposure of anionic groups caused by beta-lactam antibiotics in streptococci. Figueiredo AM, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1031-6

Effect of endogenous carbohydrate availability on oral medium-chain triglyceride oxidation during prolonged exercise. Jeukendrup AE, et al. **J Appl Physiol** 1996 Mar; 80(3):949-54

A methyl-accepting protein involved in multiple-sugar chemotaxis by Cellulomonas gelida. Hsing W, et al. **J Bacteriol** 1996 Sep;178(17):5153-8

Carbohydrate-binding properties of the hemolytic lectin CEL-III from the holothuroidea Cucumaria echinata as analyzed using carbohydrate-coated microplate. Hatakeyama T, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):63-7

Fluorescence spectrometry in studies of carbohydrate-protein interactions. Lee YC. **J Biochem (Tokyo)** 1997 May;121(5):818-25 (66 ref.)

Synthetic glycogels for affinity electrophoresis: a facile and efficient method for investigating sugar-lectin interaction. Ohmae M, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):367-71

Five transmembrane helices form the sugar pathway through the Na+/glucose cotransporter. Panayotova-Heiermann M, et al. **J Biol Chem** 1997 Aug 15;272(33):20324-7

Carbohydrate-carbohydrate interactions in adhesion. Spillmann D, et al. **J Cell Biochem** 1996 Jun 15;61(4):562-8 (44 ref.)

Metabolic effects of antihypertensive drugs. Suter PM, et al. **J Hypertens Suppl** 1995 Dec;13(4):S11-7 (74 ref.)

Modeling facilitative sugar transporters: transitions between single and double ligand occupancy of multiconformational channel models explain anomalous kinetics. Hernández JA, et al. **J Membr Biol** 1996 Jan;149(1):57-69

Analyses of carbohydrate recognition by legume lectins: size of the combining site loops and their primary specificity. Sharma V, et al. **J Mol Biol** 1997 Mar 28;267(2):433-45

Stimulation of carbohydrate metabolism reduces hypothermia-induced calcium load in fatty acid-perfused rat hearts. Aasum E, et al. **J Mol Cell Cardiol** 1997 Feb; 29(2):527-34

Further metabolic studies of indole and sugar derivatives using the staurosporine producer Streptomyces staurosporeus. Yang SW, et al. **J Nat Prod** 1997 Mar; 60(3):230-5

Lectins implicate specific carbohydrate domains in electric field stimulated nerve growth and guidance. Stewart R, et al. **J Neurobiol** 1996 Jul;30(3):425-37

Fecal short-chain fatty acids in patients with diarrhea-predominant irritable bowel syndrome: in vitro studies of carbohydrate fermentation. Treem WR, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):280-6

Histochemical study of the influence of transplanted teeth with periodontal ligament of the binding of peanut agglutinin in rat dorsal skin. Abe Y, et al. **J Periodontal Res** 1997 Feb;32(2):249-55

Improvement of intestinal absorption of leucine enkephalin by sugar coupling and peptidase inhibitors. Mizuma T, et al. **J Pharm Sci** 1996 Aug;85(8):854-7

Role of oxygen in the zonation of carbohydrate metabolism and gene expression in liver. Jungermann K, et al. **Kidney Int** 1997 Feb;51(2):402-12

The effects of hormone replacement therapy on carbohydrate metabolism and cardiovascular risk factors in surgically postmenopausal cynomolgus monkeys. Wagner JD, et al. **Metabolism** 1996 Oct;45(10):1254-62

Effects of various types of stress on the metabolism of reserve carbohydrates in Saccharomyces cerevisiae: genetic evidence for a stress-induced recycling of glycogen and trehalose. Parrou JL, et al. **Microbiology** 1997 Jun;143 (Pt 6):1891-900

Measurements of fatty acid and carbohydrate metabolism in the isolated working rat heart. Lopaschuk GD, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):137-47

Carbohydrates and fertilization: an overview. Benoff S. **Mol Hum Reprod** 1997 Jul;3(7):599-637 (525 ref.)

Regulation of competence development and sugar utilization in Haemophilus influenzae Rd by a phosphoenolpyruvate:fructose phosphotransferase system. Macfadyen LP, et al. **Mol Microbiol** 1996 Sep;21(5):941-52

Egg jelly layers of Xenopus laevis are unique in ultrastructure and sugar distribution. Bonnell BS, et al. **Mol Reprod Dev** 1996 Jun;44(2):212-20

Carbohydrate three-carbon metabolism of adipose tissue during surgery [see comments] Felländer G, et al. **Nutrition** 1996 Sep;12(9):589-94. Comment in: Nutrition 1996 Sep;12(9):640.

Carbohydrate metabolism in children receiving growth hormone for 5 years. Chronic renal insufficiency compared with growth hormone deficiency, Turner syndrome, and idiopathic short stature. Genentech Collaborative Group. Saenger P, et al. **Pediatr Nephrol** 1996 Jun;10(3):261-3

Regulation of intestinal sugar transport. Ferraris RP, et al. **Physiol Rev** 1997 Jan;77(1):257-302 (299 ref.)

Sugar digestion efficiencies of Gurney's sugarbirds, malachite sunbirds, and black sunbirds. Downs CT. **Physiol Zool** 1997 Jan-Feb;70(1):93-9

Effect of coconut palm wine (Toddy) on carbohydrate metabolism in pregnant rats and fetuses. Lal JJ, et al. **Plant Foods Hum Nutr** 1997;50(1):71-9

Comparison of two methods for determining in vitro intestinal absorption of nutrients using rats fed different diets. Singh J, et al. **Plant Foods Hum Nutr** 1996 Apr; 49(3):235-40

The C-type lectin domains of lecticans, a family of aggregating chondroitin sulfate proteoglycans, bind tenascin-R by protein-protein interactions independent of carbohydrate moiety. Aspberg A, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10116-21

Role of aromatic amino acids in carbohydrate binding of plant lectins: laser photo chemically induced dynamic nuclear polarization study of hevein domain-containing lectins. Siebert HC, et al. **Proteins** 1997 Jun;28(2):268-84

Influence of the nature of carbohydrate intake on the absorption chronology of reducing sugars and volatile fatty acids in the pig. Rérat A. **Reprod Nutr Dev** 1996;36(1):3-19

Regulation of carbon metabolism in bacteria. Proceedings of the 14th Forum in Microbiology. **Res Microbiol** 1996 Jul-Sep;147(6-7):439-587

Coordination of carbon and nitrogen metabolism. Charbit A. **Res Microbiol** 1996 Jul-Sep;147(6-7):513-8 (30 ref.)

CcpA and HPr(ser-P): mediators of catabolite repression in Bacillus subtilis. Chauvaux S. **Res Microbiol** 1996 Jul-Sep; 147(6-7):518-22 (20 ref.)

Catabolite repression control in the Pseudomonads. Collier DN, et al. **Res Microbiol** 1996 Jul-Sep;147(6-7):551-61 (41 ref.)

Cyclic AMP and catabolite repression. Crasnier M. **Res Microbiol** 1996 Jul-Sep;147(6-7):479-82 (30 ref.)

Carbohydrate control of gene expression in higher plants. Graham IA. **Res Microbiol** 1996 Jul-Sep;147(6-7):572-80 (85 ref.)

Reverse catabolite repression and the regulation of CO2 fixation in Rhodobacter and related bacteria. Inui M, et al. **Res Microbiol** 1996 Jul-Sep;147(6-7):562-6 (32 ref.)

Life in mucus: sugar metabolism in Haemophilus influenzae. Macfadyen LP, et al. **Res Microbiol** 1996 Jul-Sep; 147(6-7):541-51 (49 ref.)

Carbon metabolism and its regulation in Streptomyces and other high GC gram-positive bacteria. Paulsen IT. **Res Microbiol** 1996 Jul-Sep;147(6-7):535-41 (42 ref.)

Cra and the control of carbon flux via metabolic pathways. Ramseier TM. **Res Microbiol** 1996 Jul-Sep;147(6-7):489-93 (17 ref.)

The fructose diphosphate/phosphate regulation of carbohydrate metabolism in low G + C gram-positive anaerobes. Russell JB, et al. **Res Microbiol** 1996 Jul-Sep; 147(6-7):528-35 (82 ref.)

Inducer exclusion and the regulation of sugar transport. Saier MH Jr, et al. **Res Microbiol** 1996 Jul-Sep;147(6-7):482-9 (55 ref.)

Regulatory interactions controlling carbon metabolism: an overview. Saier MH Jr. **Res Microbiol** 1996 Jul-Sep; 147(6-7):439-47 (36 ref.)

Catabolite repression: a story without end. Ullmann A. **Res Microbiol** 1996 Jul-Sep;147(6-7):455-8 (24 ref.)

Some puzzles about carbon catabolite repression in yeast. Wills C. **Res Microbiol** 1996 Jul-Sep;147(6-7):566-72 (39 ref.)

Regulation of carbohydrate transport in Lactococcus and Lactobacillus. Ye J. **Res Microbiol** 1996 Jul-Sep; 147(6-7):523-7 (31 ref.)

Multivalent binding of toxin A from Clostridium difficile to carbohydrate receptors. Wolfhagen MJ, et al. **Toxicon** 1994 Jan;32(1):129-32

Transporters of nucleotide sugars, nucleotide sulfate and ATP in the Golgi apparatus. Abeijon C, et al. **Trends Biochem Sci** 1997 Jun;22(6):203-7 (30 ref.)

[Role of the liver in carbohydrate homeostasis: a re-reading of the works of Claude Bernard] Lefebvre P, et al. **Journ Annu Diabetol Hotel Dieu** 1996;:1-9 **(Fre)**

[Relationship between some parameters of carbohydrate metabolism, proteinuria and glomerular filtration rate in patients with primary glomerulonephritis] Biedunkiewicz B, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):208-14 (Eng. Abstr.) **(Pol)**

[The interrelationship of changes in carbohydrate-energy metabolism and potassium homeostasis in children with diffuse suppurative peritonitis] Kurek VV, et al. **Anesteziol Reanimatol** 1995 Nov-Dec;(6):23-6 (Eng. Abstr.) **(Rus)**

[Changes in indices of carbohydrate metabolism in suspended rats] Potapov PP, et al. **Aviakosm Ekolog Med** 1996; 30(2):30-2 (Eng. Abstr.) **(Rus)**

[Carbohydrate-carbohydrate interaction] Bovin NV. **Biokhimiia** 1996 Jun;61(6):968-83 (36 ref.) (Eng. Abstr.) **(Rus)**

[Features of hormonal regulation of carbohydrate and lipid metabolism in people trained for conditions of immersion hypothermia] Povazhenko AA, et al. **Fiziol Cheloveka** 1997 Jan-Feb;23(1):66-9 **(Rus)**

[Age-related characteristics of the changes in the activity of the enzymes that implement cavity and membrane carbohydrate hydrolysis in stress] Rakhimova KR, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):89-94 (Eng. Abstr.) **(Rus)**

[Carbohydrate hydrolysis and absorption in the human small intestine in aging] Valenkevich LN, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):111-6 (Eng. Abstr.) **(Rus)**

[Effect of cold stress on the contractile activity, carbohydrate and energy metabolism in the isolated rat heart] Lishmanov IuB, et al. **Patol Fiziol Eksp Ter** 1997 Jan-Mar;(1):28-31 (Eng. Abstr.) **(Rus)**

[Stimulation of growth and spore formation of Bacillus subtilis by optimization of carbohydrate nutrition during submerged cultivation] Osadchaia AI, et al. **Prikl Biokhim Mikrobiol** 1997 May-Jun;33(3):321-4 (Eng. Abstr.) **(Rus)**

[Purification of lectin from Paris quadrifolia L. and comparison of its carbohydrate-binding specificity with other lectins of the Liliaceae family] Antoniuk VO. **Ukr Biokhim Zh** 1996 Nov-Dec;68(6):86-91 (Eng. Abstr.) **(Rus)**

[Oral hormonal contraceptives and carbohydrate metabolism] Rubio-Lotvin B. **Ginecol Obstet Mex** 1996 May;64:198-200 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Kinetic separation and characterization of three sugar transport modes in Caco-2 cells. Bissonnette P, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G833-43

A high cholesterol diet blocks the effect of calcium channel blockers on the uptake of sugars in rabbit intestine. Hyson DH, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):57-64

Interpreting dual-sugar absorption studies in critically ill patients: what are the implications of apparent increases in intestinal permeability to hydrophilic solutes? [editorial; comment] Fink MP. **Intensive Care Med** 1997 May; 23(5):489-92. Comment on: Intensive Care Med 1997 May;23(5):510-6.

Gastrointestinal permeability following cardiopulmonary bypass: a randomised study comparing the effects of dopamine and dopexamine [see comments] Sinclair DG, et al. **Intensive Care Med** 1997 May;23(5):510-6. Comment in: Intensive Care Med 1997 May;23(5):489-92.

Intestinal permeability and function in dogs with small intestinal bacterial overgrowth. Rutgers HC, et al. **J Small Anim Pract** 1996 Sep;37(9):428-34

Intestinal permeability in exocrine pancreatic insufficiency due to cystic fibrosis or chronic pancreatitis. van Elburg RM, et al. **Pediatr Res** 1996 Jun;39(6):985-91

[Digestion and absorption mechanism of carbohydrates and proteins in intestines] Takeda E, et al. **Nippon Naika Gakkai Zasshi** 1996 Jul 10;85(7):1029-33 (5 ref.) **(Jpn)**

PHARMACOLOGY

Carbohydrate supplementation affects blood granulocyte and monocyte trafficking but not function after 2.5 h or running. Nieman DC, et al. **Am J Clin Nutr** 1997 Jul; 66(1):153-9

Carbohydrate-mediated regulation of matrix metalloproteinase-2 activation in normal human fibroblasts and fibrosarcoma cells. Gervasi DC, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):530-8

Effects of nutrient HCO3- and Cl- on potential difference responses to nutrient Na+ changes in secreting and inhibited states of frog stomach. Schwartz M, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):58-64

Effect of added carbohydrates on membrane phase behavior and survival of dried Lactobacillus plantarum. Linders LJ, et al. **Cryobiology** 1997 Aug;35(1):31-40

A varicella vaccine stable at 5 degrees C. Fanget B, et al. **Dev Biol Stand** 1996;87:167-71

Carbohydrate protection of enzyme structure and function against guanidinium chloride treatment depends on the nature of carbohydrate and enzyme. Sola-Penna M, et al. **Eur J Biochem** 1997 Aug 15;248(1):24-9

Salicylic acid-independent induction of pathogenesis-related protein transcripts by sugars is dependent on leaf developmental stage. Herbers K, et al. **FEBS Lett** 1996 Nov 18;397(2-3):239-44

The influence of a high carbohydrate intake during recovery from prolonged, constant-pace running. Fallowfield JL, et al. **Int J Sport Nutr** 1997 Mar;7(1):10-25

Polyanion inhibitors of human immunodeficiency virus and other viruses. 6. Micelle-like anti-HIV polyanionic compounds based on a carbohydrate core. Leydet A, et al. **J Med Chem** 1997 Jan 31;40(3):350-6

The effect of glucose and other sugars on the efferent activity of the sympathetic nerves innervating the fatty tissue. Niijima A. **Jpn J Physiol** 1997;47 Suppl 1:S40-2

Regulation of rubratoxin-B biosynthesis: assessment of role of gamma-irradiation, pH and carbohydrates. Aziz NH, et al. **Microbios** 1997;89(358):47-54

Modifications made to culture medium by bovine oviduct epithelial cells: changes to carbohydrates stimulate bovine embryo development. Edwards LJ, et al. **Mol Reprod Dev** 1997 Feb;46(2):146-54

The role of carbohydrates in biologically active natural products. Weymouth-Wilson AC. **Nat Prod Rep** 1997 Apr; 14(2):99-110 (111 ref.)

Relative effects of carbohydrates and protein on satiety -- a review of methodology. Reid M, et al. **Neurosci Biobehav Rev** 1997 May;21(3):295-308 (83 ref.)

Reduction of extraneural scarring by ADCON-T/N after surgical intervention. Petersen J, et al. **Neurosurgery** 1996 May;38(5):976-83; discussion 983-4

Role of extrinsic innervation in carbohydrate-induced ileal modulation of pancreatic secretion and upper gut function. Sarr MG, et al. **Pancreas** 1997 Mar;14(2):166-73

Prior exposure to palatable solutions enhances the effects of naltrexone on food intake in rats. Kanarek RB, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):377-81

[Studies on Rehmanniae radix. III. The relation between

changes of constituents and improvable effects on hemorheology with the processing of roots of Rehmannia glutinosa] Kubo M, et al. **Yakugaku Zasshi** 1996 Feb; 116(2):158–68 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Appetite regulation by carbohydrate: role of blood glucose and gastrointestinal hormones. Lavin JH, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E209–14

Role of carbohydrates in the attachment of equine spermatozoa to uterine tubal (oviductal) epithelial cells in vitro [see comments] Dobrinski I, et al. **Am J Vet Res** 1996 Nov;57(11):1635–9. Comment in: Am J Vet Res 1997 Jan;58(1):4.

Mammalian fertilization: a carbohydrate–mediated event. Tulsiani DR, et al. **Biol Reprod** 1997 Sep;57(3):487–94 (110 ref.)

The role of polysialic acid and other carbohydrate polymers in neural structural plasticity. Fryer HJ, et al. **Curr Opin Neurobiol** 1996 Feb;6(1):113–8 (49 ref.)

The role of carbohydrate residues in mammalian fertilization. Shalgi R, et al. **Histol Histopathol** 1997 Jul;12(3):813–22 (105 ref.)

Galectins: a family of animal lectins that decipher glycocodes. Kasai K, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):1–8 (57 ref.)

Adaptation of proteases and carbohydrates of saprophytic, phytopathogenic and entomopathogenic fungi to the requirements of their ecological niches. St Leger RJ, et al. **Microbiology** 1997 Jun;143 (Pt 6):1983–92

The role of carbohydrate in sperm–ZP3 adhesion. Chapman NR, et al. **Mol Hum Reprod** 1996 Oct;2(10):767–74 (74 ref.)

RADIATION EFFECTS

Where are the sugar radicals in irradiated DNA? Close DM. **Radiat Res** 1997 Jun;147(6):663–73

SECRETION

Effect of NG–nitro–L–arginine methyl ester, the nitric oxide synthase inhibitor, on duodenal alkaline secretion and mepirizole–induced duodenal lesions in rats. Takeuchi K, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S66–72

THERAPEUTIC USE

Development of anti–adhesion carbohydrate drugs for clinical use. Zopf D, et al. **Adv Exp Med Biol** 1996;408:35–8 (7 ref.)

First Cuban symposium on carbohydrates as vaccines, diagnostics and therapeutics [letter] Cremata JA. **Glycoconj J** 1995 Dec;12(6):iv–v

The carbohydrate–based drug industry. Persidis A. **Nat Biotechnol** 1997 May;15(5):479–80

URINE

[Development of methods for gas chromatographic measurement of sugars and organic acids in the urine of patients with diabetes mellitus] Chepurnoĭ IP, et al. **Klin Lab Diagn** 1996 May–Jun;(3):48–50 **(Rus)**

CARBOHYDRATES, DIETARY see **DIETARY CARBOHYDRATES**

CARBOLINES

Inhibition of monoamine oxidase A by beta–carboline derivatives. Kim H, et al. **Arch Biochem Biophys** 1997 Jan 1;337(1):137–42

ADMINISTRATION & DOSAGE

Intestinal mutagenicity of two carcinogenic food mutagens in transgenic mice: 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine and amino(alpha)carboline. Zhang XB, et al. **Carcinogenesis** 1996 Oct;17(10):2259–65

Cardiovascular effects of beta–carbolines in conscious rats. Wible JH, et al. **Hypertens Res** 1996 Sep;19(3):161–70

Human exposure to mutagenic/carcinogenic heterocyclic amines and comutagenic beta–carbolines. Wakabayashi K, et al. **Mutat Res** 1997 May 12;376(1–2):253–9

ANALYSIS

Formation and determination of aldehyde–addition products of tryptophan. Meyer K, et al. **Adv Exp Med Biol** 1996; 398:711–7

High–performance liquid chromatography–electrospray ionisation–tandem mass spectrometry for the analysis of 1,2,3,4–tetrahydro–beta–carboline derivatives. Gutsche B, et al. **J Chromatogr A** 1997 Apr 11;767(1–2):101–6

Presence of tetrahydro–beta–carboline–3–carboxylic acids in foods by gas chromatography–mass spectrometry as their N–methoxycarbonyl methyl ester derivatives. Herraiz T, et al. **J Chromatogr A** 1997 Mar 28;765(2):265–77

Endogenous alkaloids in man. XXVI. Determination of the dopaminergic neurotoxin 1–trichloromethyl–1,2,3,4–tetrahydro–beta–carboline (TaClo) in biological samples using gas chromatography with selected ion monitoring. Bringmann G, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):337–48

ANTAGONISTS & INHIBITORS

Clozapine reverses the spatial working memory deficits induced by FG7142 in monkeys. Murphy BL, et al. **Neuropsychopharmacology** 1997 Jun;16(6):433–7

BLOOD

Plasma levels of the beta–carbolines harman and norharman in Parkinson's disease. Kuhn W, et al. **Acta Neurol Scand** 1995 Dec;92(6):451–4

Determination of alosetron in human plasma or serum by high–performance liquid chromatography with robotic sample preparation. Lloyd TL, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):261–7

Plasma harman and norharman in Parkinson's disease. Kuhn W, et al. **J Neural Transm Suppl** 1995;46:291–5

CEREBROSPINAL FLUID

Elevated levels of harman and norharman in cerebrospinal fluid of parkinsonian patients. Kuhn W, et al. **J Neural Transm** 1996;103(12):1435–40

CHEMICAL SYNTHESIS

4–Aryl–1–piperazinylalkyl derivatives of 1,2,3,4–tetrahydro–beta–carboline ring system. Synthesis and preliminary in vivo studies. Cegła MT, et al. **Pharmazie** 1996 Dec;51(12):932–6

CHEMISTRY

Chemistry and biological activity of a tryptamine and beta–carboline series of bases. Begum S, et al. **Arzneimittelforschung** 1996 Dec;46(12):1163–8

Lead discovery of inhibitors of the dihydrofolate reductase domain of Plasmodium falciparum dihydrofolate reductase–thymidylate synthase. Toyoda T, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):515–9

Antiviral and tumor cell antiproliferative SAR studies on tetracyclic eudistomins. II. van Maarseveen JH, et al. **Bioorg Med Chem** 1997 May;5(5):955–70

Partition coefficients of indoles and betacarbolines. Guardado P, et al. **J Pharm Sci** 1997 Jan;86(1):106–9

ISOLATION & PURIFICATION

Pyridindolols K1 and K2, new alkaloids from Streptomyces sp. K93–0711. Kim YP, et al. **Jpn J Antibiot** 1997 Mar; 50(3):189–93

METABOLISM

Putative oxidative metabolites of 1–methyl–6–hydroxy–1,2,3,4–tetrahydro–beta–carboline of potential relevance to the addictive and neurodegenerative consequences of ethanol abuse. Wrona MZ, et al. **Alcohol** 1997 May–Jun;14(3):213–23

Characterization of the major DNA adduct formed by the food mutagen 2–amino–3–methyl–9H–pyrido[2,3–b]indole (MeAalphaC) in primary rat hepatocytes. Pfau W, et al. **Carcinogenesis** 1996 Dec;17(12):2727–32

Age–related accumulation of 1–methyl–1,2,3,4–tetrahydro–beta–carboline–3– carboxylic acid in human lens. Manabe S, et al. **Exp Eye Res** 1996 Aug;63(2):179–86

Autoradiographic localization of [3H]–pinoline binding sites in mouse tissues. Pähkla R, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul–Aug; 18(6):359–66

Simultaneous monitoring of dopamine, its metabolites and trans–isomer of atypical neuroleptic drug carbidine concentrations in striatal dialysates of conscious rats. Gainetdinov RR, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Feb; 20(2):291–305

PHARMACOKINETICS

A comparative study of tissue distribution and excretion among three substances implicated in eosinophilia–myalgia syndrome. Adachi J, et al. **Adv Exp Med Biol** 1996; 398:365–70

Transport of an antihypoxic drug stobadine across the blood–brain barrier in rat striatum and its influence on catecholamine–oxidative current: a voltammetric study under normal and anoxic/ischaemic conditions. Pavlásek J, et al. **Physiol Res** 1996;45(3):193–204

PHARMACOLOGY

Effects of 9–methyl–7–bromoeudistomin D (MBED), a powerful Ca2+ releaser, on smooth muscles of the guinea pig. Imaizumi Y, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:546–9

Primate displacement activities as an ethopharmacological model of anxiety. Schino G, et al. **Anxiety** 1996;2(4):186–91

Chemistry and biological activity of a tryptamine and beta–carboline series of bases. Begum S, et al. **Arzneimittelforschung** 1996 Dec;46(12):1163–8

A central cholinergic link in the cardiovascular effects of the benzodiazepine receptor partial inverse agonist FG 7142. Berntson GG, et al. **Behav Brain Res** 1996 Jan; 74(1–2):91–103

Activation by beta–carbolines of G–proteins in HL–60 membranes and the bovine retinal G–protein transducin in a receptor–independent manner. Klinker JF, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1621–6

Antiviral and tumor cell antiproliferative SAR studies on tetracyclic eudistomins. II. van Maarseveen JH, et al. **Bioorg Med Chem** 1997 May;5(5):955–70

Effect of a pharmacological stressor on glutamate efflux in the prefrontal cortex. Karreman M, et al. **Brain Res** 1996 Apr 15;716(1–2):180–2

Flumazenil but not FG7142 reverses the decrease in pentobarbital sleep caused by activation of central noradrenergic systems in mice. Matsumoto K, et al. **Brain Res** 1997 Apr 18;754(1–2):325–8

Neuroprotection by the pyridoindole stobadine: a minireview. Stolc S, et al. **Brain Res Bull** 1997;42(5):335–40 (55 ref.)

Down–regulation of benzodiazepine receptors by ethyl beta–carboline–3–carboxylate in cerebrocortical neurons. Katsura M, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):71–7

Differences in dopamine efflux induced by MPP+ and beta–carbolinium in the striatum of conscious rats. Matsubara K, et al. **Eur J Pharmacol** 1996 Nov 14; 315(2):145–51

Treatment with an antisense oligodeoxynucleotide to the GABAA receptor gamma 2 subunit increases convulsive threshold for beta–CCM, a benzodiazepine "inverse agonist', in rats. Zhao TJ, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):61–6

Effect of long–term administration of stobadine to rats on selective variables of spontaneous behaviour of their offspring. Dubovický M, et al. **Gen Physiol Biophys** 1996 Apr;15(2):181–6

Effect of long–term administration of stobadine on exploratory behaviour and on striatal levels of dopamine and serotonin in rats and their offspring. Dubovický M, et al. **J Appl Toxicol** 1997 Jan–Feb;17(1):63–70

Blockade of FG 7142–induced increased dopamine utilization by the glycine/NMDA receptor antagonist (+)–HA 966. Horger BA, et al. **J Neurochem** 1996 May;66(5):1959–62

Long–term studies on anticonvulsant tolerance and withdrawal characteristics of benzodiazepine receptor ligands in different seizure models in mice. I. Comparison of diazepam, clonazepam, clobazam and abecarnil. Löscher W, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):561–72

The effects of flumazenil, Ro 15–4513 and beta–CCM on the behaviour of control and stressed mice in the plus–maze test. Pokk P, et al. **J Physiol Pharmacol** 1997 Jun; 48(2):253–61

Effect of beta–carboline–3–carboxoylate–t–butyl ester on ventilatory control. Greenberg HE, et al. **Life Sci** 1997; 60(7):485–92

Aggravation of DMCM–induced seizure by nitric oxide synthase inhibitors in mice. Tsuda M, et al. **Life Sci** 1997; 60(23):PL339–43

Stobadine pretreatment enhances glutathione peroxidase activity in the heart of irradiated mice. Kováciková Z, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):241–3

Antimutagenic effect of resveratrol against Trp–P–1. Uenobe F, et al. **Mutat Res** 1997 Feb 3;373(2):197–200

Food–derived heterocyclic amines potentiate the mutagenicity of a drinking water mutagen 3–chloro–4–(dichloromethyl)–5–hydroxy–2(5H)–furanone (MX). Watanabe–Akanuma M, et al. **Mutat Res** 1997 Jul 3;377(2):225–9

Abecarnil, a beta–carboline derivative, does not exhibit anticonvulsant tolerance or withdrawal effects in mice. Natolino F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):612–7

Chronic treatment with diazepam or abecarnil differently affects the expression of GABAA receptor subunit mRNAs in the rat cortex. Holt RA, et al. **Neuropharmacology** 1996; 35(9–10):1457–63

Effect of phenylethanolamine N–methyltransferase inhibitor, CGS19281A, on the alpha–2–adrenoceptor function in the hypothalamus of rats in comparison with SKF29661, SKF64139 and yohimbine. Atobe M, et al. **Neuropsychobiology** 1996;34(2):82–9

Beta–carbolines induce apoptotic death of cerebellar granule neurones in culture. Malgrange B, et al. **Neuroreport** 1996 Nov 25;7(18):3041–5

Interactions of Ginkgo biloba extract (EGb 761), diazepam and ethyl beta–carboline–3–carboxylate on social behavior of the rat. Chermat R, et al. **Pharmacol Biochem Behav** 1997 Feb;56(2):333–9

Blockade of behavioral effects of bretazenil by flumazenil and ZK 93,426 in pigeons. Witkin JM, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):1–7

Behavioural effects of pinoline in the rat forced swimming, open field and elevated plus–maze tests. Pähkla R, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):73–8

The pyridoindole antioxidant stobadine prevents alloxan–induced lipid peroxidation by inhibiting its propagation. Stefek M, et al. **Pharmacol Toxicol** 1996 Feb; 78(2):77–81

Effects of beta–CCE on retention of aversively– and appetitively–motivated tasks in rats. Wichlinski LJ, et al. **Physiol Behav** 1996 Oct;60(4):1121–4

Effect of stobadine on gastric mucosal injury after ischaemia/reperfusion. Mojžiš J, et al. **Physiol Res** 1996; 45(5):399–403

Transport of an antihypoxic drug stobadine across the blood–brain barrier in rat striatum and its influence on

catecholamine–oxidative current: a voltammetric study under normal and anoxic/ischaemic conditions. Pavlásek J, et al. **Physiol Res** 1996;45(3):193–204

Alprazolam dependence prevented by substituting with the beta–carboline abecarnil. Pinna G, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2719–23

Effects of methyl beta–carboline–3–carboxylate on memory impairments induced by chronic alcohol consumption in mice. Borde N, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Nov; 20(8):1377–87

Simultaneous monitoring of dopamine, its metabolites and trans–isomer of atypical neuroleptic drug carbidine concentrations in striatal dialysates of conscious rats. Gainetdinov RR, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Feb; 20(2):291–305

Non–psychostimulant drugs of abuse and anxiogenic drugs activate with differential selectivity dopamine transmission in the nucleus accumbens and in the medial prefrontal cortex of the rat [published erratum appears in Psychopharmacology (Berl) 1996 Oct;127(3):289–90] Bassareo V, et al. **Psychopharmacology (Berl)** 1996 Apr; 124(4):293–9

The effects of a benzodiazepine receptor antagonist beta–carboline ZK–93426 on scopolamine–induced impairment on attention, memory and psychomotor skills. Duka T, et al. **Psychopharmacology (Berl)** 1996 Feb; 123(4):361–73

Psychomotor effects of the anxiolytic abecarnil: a comparison with lorazepam. Hege SG, et al. **Psychopharmacology (Berl)** 1997 May;131(2):101–7

Behavioral reactivity to aversive stimuli in a transgenic mouse model of impaired glucocorticoid (type II) receptor function: effects of diazepam and FG–7142. Rochford J, et al. **Psychopharmacology (Berl)** 1997 Jul;132(2):145–52

The cardiovascular startle response: anxiety and the benzodiazepine receptor complex. Berntson GG, et al. **Psychophysiology** 1997 May;34(3):348–57

Stimulation of cortical acetylcholine efflux by FG 7142 measured with repeated microdialysis sampling. Moore H, et al. **Synapse** 1995 Dec;21(4):324–31

[A study of the effects of antidepressants on the GABAA receptor and its complex based on the drug actions on the power–spectral changes of rat hippocampal EEG induced by GABA antagonists and inverse agonists] Matsubara M, et al. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Apr; 17(2):75–83 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Protective effect of stobadine on isoproterenol premedicated rabbits. Guzy J, et al. **Pharmazie** 1997 May;52(5):408

A double–blind comparison of abecarnil and diazepam in the treatment of uncomplicated alcohol withdrawal. Anton RF, et al. **Psychopharmacology (Berl)** 1997 May; 131(2):123–9

TOXICITY

Induction of aberrant crypt foci in C57BL/6N mice by 2–amino–9H–pyrido[2,3–b]indole (A alphaC) and 2–amino–3,8–dimethylimidazo[4,5–f]quinoxaline (MeIQx). Okonogi H, et al. **Cancer Lett** 1997 Jan 1;111(1–2):105–9

Agreement of mutational characteristics of heterocyclic amines in lacI of the Big Blue mouse with those in tumor related genes in rodents. Okonogi H, et al. **Carcinogenesis** 1997 Apr;18(4):745–8

Embryotoxic effects of B–193 in mouse. Anasiewicz A. **Folia Morphol (Warsz)** 1996;55(4):200–1

The TaClo concept: 1–trichloromethyl–1,2,3,4–tetrahydro–beta–carboline (TaClo), a new toxin for dopaminergic neurons. Bringmann G, et al. **J Neural Transm Suppl** 1995;46:235–44 (25 ref.)

TaClo as a neurotoxic lead: improved synthesis, stereochemical analysis, and inhibition of the mitochondrial respiratory chain. Bringmann G, et al. **J Neural Transm Suppl** 1995;46:245–54 (19 ref.)

Biochemical lesions of the nigrostriatal system by TaClo (1–trichloromethyl–1,2,3,4–tetrahydro–beta–carboline) and derivatives. Grote C, et al. **J Neural Transm Suppl** 1995; 46:275–81

The halogenated tetrahydro–beta–carboline "TaClo": a progressively–acting neurotoxin. Heim C, et al. **J Neural Transm Suppl** 1997;50:107–11

1–Trichloromethyl–1,2,3,4–tetrahydro–beta–carboline, a new inhibitor of complex I. Janetzky B, et al. **J Neural Transm Suppl** 1995;46:265–73

Studies of the potentially endogenous toxin TaClo (1–trichloromethyl–1,2,3,4–tetrahydro–beta–carboline) in neuronal and glial cell cultures. Rausch WD, et al. **J Neural Transm Suppl** 1995;46:255–63

Long–term behavioural effects of TaClo (1–trichloromethyl–1,2,3,4–tetrahydro–beta–carboline) after subchronic treatment in rats. Sontag KH, et al. **J Neural Transm Suppl** 1995;46:283–9

In vivo mutagenicity and DNA adduct levels of heterocyclic amines in Muta mice and c–myc/lacZ double transgenic mice. Davis CD, et al. **Mutat Res** 1996 Sep 23; 356(2):287–96

Pancreatic DNA adducts formed in vitro and in vivo by the food mutagens 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine (PhIP) and 2–amino–3–methyl–9H–pyrido[2,3–b]indole (MeA alphaC). Pfau W, et al. **Mutat Res** 1997 Aug 1; 378(1–2):13–22

Antimutagenic activity of extracts from Japanese eggplant. Yoshikawa K, et al. **Mutat Res** 1996 Nov 4;371(1–2):65–71

Binding of pinoline on the 5–hydroxytryptamine transporter: competitive interaction with [3H] citalopram. Pähkla R, et al. **Pharmacol Toxicol** 1997 Mar;80(3):122–6

Toxicity of Palicourea marcgravii: combined effects of fluoroacetate, N–methyltyramine and 2–methyltetrahydro–beta–carboline. Kemmerling W. **Z Naturforsch [C]** 1996 Jan–Feb;51(1–2):59–64

URINE

Urinary excretion of tetrahydro–beta–carbolines relating to ingestion of alcoholic beverages. Tsuchiya H, et al. **Alcohol Alcohol** 1996 Mar;31(2):197–203

Formaldehyde–derived tetrahydroisoquinolines and tetrahydro–beta–carbolines in human urine. Musshoff F, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30; 683(2):163–76

CARBOMONOXYHEMOGLOBIN see **CARBOXYHEMOGLOBIN**

CARBON

Modelling of initial events and chemical behaviour of species induced in DNA units by Auger electrons from 125I, 123I and carbon. Pomplun E, et al. **Acta Oncol** 1996;35(7):857–62

Elemental carbon–based method for occupational monitoring of particulate diesel exhaust: methodology and exposure issues. Birch ME, et al. **Analyst** 1996 Sep;121(9):1183–90

Experimental study of mechanical properties of composite carbon screws. Błażewicz S, et al. **Biomaterials** 1997 Mar; 18(5):437–9

Biological applications of fullerenes. Jensen AW, et al. **Bioorg Med Chem** 1996 Jun;4(6):767–79 (70 ref.)

A new type of hydrophilic carbon paste electrodes for biosensor manufacturing: binder paste electrodes. Parellada J, et al. **Biosens Bioelectron** 1997;12(4):267–75

The use of carbon fibre material in radiographic cassettes: estimation of the dose and contrast advantages. Dance DR, et al. **Br J Radiol** 1997 Apr;70:383–90

Coronary implantation of silicone–carbide–coated Palmaz–Schatz stents in patients with high risk of stent thrombosis without oral anticoagulation. Ozbek C, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):71–8

Wear in carbon fiber–reinforced polyethylene (poly–two) knee prostheses. Busanelli L, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):263–7 **(Eng, Ita)**

Fusion rate after posterior lumbar interbody fusion with carbon fiber implant: 1–year follow–up of 51 patients. Tullberg T, et al. **Eur Spine J** 1996;5(3):178–82

Carbon black. **IARC Monogr Eval Carcinog Risks Hum** 1996; 65:149–262 (255 ref.)

Evaluation of an activated carbon felt passive sampler in monitoring organic vapors. Byeon SH, et al. **Ind Health** 1997 Jul;35(3):404–14

Platelet interaction with pyrolytic carbon heart–valve leaflets. Goodman SL, et al. **J Biomed Mater Res** 1996 Oct;32(2):249–58

Promotion and control of selective adhesion and proliferation of endothelial cells on polymer surface by carbon deposition. Kaibara M, et al. **J Biomed Mater Res** 1996 Jul;31(3):429–35

The On–X [letter; comment] Bokros J. **J Heart Valve Dis** 1997 Jan;6(1):101. Comment on: J Heart Valve Dis 1996 Nov;5(6):572–3.

Pyrolytic carbons in mechanical heart valves [editorial] Haubold A, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S1

In vivo comparison of hemocompatibility of materials used in mechanical heart valves. Yang Y, et al. **J Heart Valve Dis** 1996 Sep;5(5):532–7

Measurement of brain tissue oxygen at a carbon past electrode can serve as an index of increases in regional cerebral blood flow. Lowry JP, et al. **J Neurosci Methods** 1997 Feb; 71(2):177–82

A novel carbon fiber bundle microelectrode and modified brain slice chamber for recording long–term multiunit activity from brain slices. Tcheng TK, et al. **J Neurosci Methods** 1996 Nov;69(2):163–9

An in vitro evaluation of a carbon fiber–based post and core system. Sidoli GE, et al. **J Prosthet Dent** 1997 Jul;78(1):5–9

Reconstruction of the anterior cruciate ligament with carbon fibres: unsatisfactory results after 8 years. Mäkisalo SE, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(3):132–6

Transformation of microalgae using silicon carbide whiskers. Dunahay TG, et al. **Methods Mol Biol** 1997;62:503–9

Electrophysiological improvement after co–implantation of carbon filaments and fetal tissue in the contused rat spinal cord. Liu LS, et al. **Neurosci Lett** 1995 Nov 24; 200(3):199–202

Activated pyrolytic carbon tip pacing leads: an alternative to steroid–eluting pacing leads? Masini M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1832–5

Pneumoconiosis in carbon black workers [published erratum appears in Sangyo Ika Daigaku Zasshi 1996 Dec 1;18(4):307] Szozda R. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):223–8 (29 ref.)

[Restoration of external auditory canal by filling mastoid cavity with carbon pellet] Song C, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1996;31(1):33–5 (Eng. Abstr.) **(Chi)**

[Value of carbon in the thrombogenicity of cardiovascular prostheses] Babatasi G, et al. **Ann Cardiol Angeiol (Paris)** 1997 Jan;46(1):7–14 (Eng. Abstr.) **(Fre)**

[Wear behavior of coupled aluminum oxide ceramics–carbon fiber bond as hip acetabulum inlay in a simulated trial] Scheller G, et al. **Biomed Tech (Berl)** 1996 Dec; 41(12):338–40 (Eng. Abstr.) **(Ger)**

[Tribological properties of carbon fiber–reinforced plastic. Experimental and clinical results] Früh HJ, et al. **Orthopade** 1997 Feb;26(2):152–9 (Eng. Abstr.) **(Ger)**

[Biological effect of carbon beams on cultured human cells] Ka WJ, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug;56(9):669–73 (Eng. Abstr.) **(Jpn)**

[Mutation induction by heavy ion beams and X–rays: analysis with cultured cell line] Toya K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep; 56(11):736–40 (Eng. Abstr.) **(Jpn)**

[Replacement of cervical vertebrae by carbon implants] Iumashev GS, et al. **Khirurgiia (Mosk)** 1996;(2):84–5 (Eng. Abstr.) **(Rus)**

[Experimental and morphological results of using carbon foam in the formation of the locomotor stump after enucleation] Gundarova RA, et al. **Vestn Oftalmol** 1997 Jan–Feb;113(1):13–6 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Effects of oral adsorbent AST–120 concurrent with a low–protein diet on the progression of chronic renal failure. Owada A, et al. **Am J Nephrol** 1996;16(2):124–7

Mechanism and treatment of peritoneal carcinomatosis: intraperitoneal chemotherapy with mitomycin C bound to carbon particles. Takahashi T, et al. **Cancer Treat Res** 1996; 81:185–92

Synergetic effect of low protein diet combined with oral adsorbent on the progression of chronic renal failure [letter] Takahashi S, et al. **Nephron** 1996;72(3):490–1

Carbon black (N220): a possible role in poison management. Orisakwe OE, et al. **Tokai J Exp Clin Med** 1995 Jul; 20(2):67–70

ADVERSE EFFECTS

Case–control study of exposure to carbon black in the occupational setting and risk of lung cancer. Parent ME, et al. **Am J Ind Med** 1996 Sep;30(3):285–92

Carbon–fibre–induced airborne irritant contact dermatitis. Eedy DJ. **Contact Dermatitis** 1996 Dec;35(6):362–3

Contact dermatitis in a chimney sweep. Jenkinson HA. **Contact Dermatitis** 1997 Jul;37(1):35

Relevant differences in pathogenicity of nuisance dusts; model investigations on samples of silicon carbide dusts. Bruch J, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):477–80

Postoperative carbon pigment granuloma: a report of eight cases involving the ovary [published erratum appears in Hum Pathol 1997 Jan;28(1):116] Tatum ET, et al. **Hum Pathol** 1996 Oct;27(10):1008–11

"Lung cancer due to diesel soot particles in ambient air?" by W. Stöber and U. Abel [editorial; comment] Kentner M, et al. **Int Arch Occup Environ Health** 1996;68 Suppl:S1–2. Comment on: Int Arch Occup Environ Health 1996;68 Suppl:S3–61.

Effects on the lung function of exposure to carbon black dusts. Results of a study carried out on 677 members of staff of the DEGUSSA factory in Kalscheuren/Germany. Küpper HU, et al. **Int Arch Occup Environ Health** 1996; 68(6):478–83

Lung cancer due to diesel soot particles in ambient air? A critical appraisal of epidemiological studies addressing this question [see comments] Stöber W, et al. **Int Arch Occup Environ Health** 1996;68 Suppl:S3–61 (292 ref.). Comment in: Int Arch Occup Environ Health 1996;68 Suppl:S1–2.

Mortality in carbon black workers in the United States. Robertson JM, et al. **J Occup Environ Med** 1996 Jun; 38(6):569–70

Induction of mesothelioma after intrapleural inoculation of F344 rats with silicon carbide whiskers or continuous ceramic filaments. Johnson NF, et al. **Occup Environ Med** 1996 Dec;53(12):813–6

Showdown over clean air science [news] Kaiser J. **Science** 1997 Jul 25;277(5325):466–9

[Optic neuritis due to massive exposure to soot (letter)] Cattaneo G, et al. **Med Lav** 1996 Sep–Oct;87(5):438–40 **(Ita)**

ANALYSIS

Stable carbon and nitrogen isotopic composition of diet and hair of Gidra–speaking Papuans [published erratum appears in Am J Phys Anthropol 1996 Aug;100(4):611] Yoshinaga J, et al. **Am J Phys Anthropol** 1996 May;100(1):23–34

Occupational exposure to carbon black in its manufacture: data from 1987 to 1992. Gardiner K, et al. **Ann Occup Hyg** 1996 Feb;40(1):65–77

Carbon mineralization potential of soils amended with sludge from olive processing. Riffaldi R, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):30–7

Influence of storage on sediment characteristics and of drying sediment on sorption coefficients of organic contaminants. Sijm RT, et al. **Bull Environ Contam Toxicol** 1997 Jun;

58(6):961–8
Pitfalls and outcomes from accelerated wear testing of mechanical heart valves. Campbell A, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S124–32; discussion 144–8
Material properties, biocompatibility, and wear resistance of the Medtronic pyrolytic carbon. Leuer LH, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S105–9; discussion 110
Total organic carbon method for aspirin cleaning validation. Holmes AJ, et al. **PDA J Pharm Sci Technol** 1997 Jul–Aug; 51(4):149–52
Physicochemical quality of drinking and hot waters in Finnish buildings originated from groundwater or surface water plants. Zacheus OM, et al. **Sci Total Environ** 1997 Sep 19;204(1):1–10
Measurements of 12C/13C, 14N/15N, and 32S/34S ratios in comet Hale–Bopp (C/1995 O1). Jewitt DC, et al. **Science** 1997 Oct 3;278(5335):90–3
Release of carbon granules from cigarettes with charcoal filters. Pauly JL, et al. **Tob Control** 1997 Spring;6(1):33–40
[Silicon carbide, occupational exposure, proposed MAC values] Woźniak H, et al. **Med Pr** 1997;48(2):129–37 (Eng. Abstr.) **(Pol)**

CHEMISTRY

Tracing gluconeogenesis with deuterated water: measurement of low deuterium enrichments on carbons 6 and 2 of glucose. Hazey JW, et al. **Anal Biochem** 1997 May 15;248(1):158–67
Accurate determination of 13C enrichments in nonprotonated carbon atoms of isotopically enriched amino acids by 1H nuclear magnetic resonance. Wendisch VF, et al. **Anal Biochem** 1997 Feb 15;245(2):196–202
In vivo brain glucose measurements: differential normal pulse voltammetry with enzyme-modified carbon fiber microelectrodes. Netchiporouk LI, et al. **Anal Chem** 1996 Dec 15;68(24):4358–64
Ozone degradation of residual carbon in biological samples using microwave irradiation. Jiang W, et al. **Analyst** 1997 Mar;122(3):211–5
A carbon–skeleton walk: a novel double rearrangement of glutaryl–CoA catalyzed by the human methylmalonyl–CoA mutase. Padmakumar R, et al. **Biofactors** 1995–96;5(2):83–6
Detection of hydroxyl and carbon–centred radicals by EPR spectroscopy after ischaemia and reperfusion of the rat kidney. Kadkhodaee M, et al. **Free Radic Res** 1996 Jul; 25(1):31–42
Application of porous carbon for solid–phase extraction of dicarboxyimide fungicide residues from wines in combination with high–resolution capillary gas chromatography and gas chromatography–mass spectrometry. Matisová E, et al. **J Chromatogr A** 1996 Nov 22;754(1–2):445–54
Solid–phase extraction of polar pesticides from environmental water samples on graphitized carbon and Empore–activated carbon disks and on–line coupling to octadecyl–bonded silica analytical columns. Slobodník J, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):227–38
Comparison of octadecylsilica and graphitized carbon black as materials for solid–phase extraction of fungicide and insecticide residues from fruit and vegetables. Torres CM, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):127–37
Voltammetric determination of imipramine hydrochloride and amitriptyline hydrochloride using a polymer–modified carbon paste electrode. Biryol I, et al. **J Pharm Biomed Anal** 1996 Dec;15(3):371–81
Anodic voltammetry of fluphenazine at different solid electrodes. Sentürk Z, et al. **J Pharm Biomed Anal** 1996 Dec;15(3):365–70
RNA–catalysed carbon–carbon bond formation. Tarasow TM, et al. **Nature** 1997 Sep 4;389(6646):54–7
Comment to Daura, X., et al., Proteins 25:89–103, 1996 [editorial; comment] Aqvist J. **Proteins** 1997 Jun;28(2):143 . Comment on: Proteins 1996 May;25(1):89–103.
Space carbon: neutral pathways? [comment] Heath JR, et al. **Science** 1996 Nov 29;274(5292):1480–1. Comment on: Science 1996 Nov 29;274(5292):1508–11.
A combined experimental and theoretical study on the formation of interstellar C3H isomers [see comments] Kaiser RI, et al. **Science** 1996 Nov 29;274(5292):1508–11. Comment in: Science 1996 Nov 29;274(5292):1480–1.
Spectrophotometric studies of complexation of C60 with aromatic hydrocarbons. Sibley SP, et al. **Spectrochim Acta A Mol Biomol Spectrosc** 1997 May; 53A(5):679–84

DIAGNOSTIC USE

Exudation into the nasal cavity of carbon particles injected into nasal polyps. Watanabe K, et al. **Rhinology** 1996 Jun; 34(2):105–9

METABOLISM

Carbon source utilization and isoenzyme analysis as taxonomic aids for toxigenic Neosartorya species and their relatives. Varga J, et al. **Acta Microbiol Immunol Hung** 1997;44(1):1–11
Investigation of the carbon– and sulfur–oxidizing capabilities of microorganisms by active–site modeling. Holland HL. **Adv Appl Microbiol** 1997;44:125–65 (90 ref.)
Role of cytosolic serine hydroxymethyltransferase in one–carbon metabolism in Neurospora crassa. Jeong SS, et al. **Arch Biochem Biophys** 1996 Nov 15;335(2):333–41
Induction and carbon catabolite repression in the biosynthesis of beta–amylase by Bacillus megaterium B6. Ray RR, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):223–30
Evidence that cobalt–carbon bond homolysis is coupled to hydrogen atom abstraction from substrate in methylmalonyl–CoA mutase. Padmakumar R, et al. **Biochemistry** 1997 Mar 25;36(12):3713–8
Disturbances of one–carbon metabolism in neuropsychiatric disorders: a review. Smythies JR, et al. **Biol Psychiatry** 1997 Jan 15;41(2):230–3 (35 ref.)
Phagocytosis of chemically modified carbon materials. Czajkowska B, et al. **Biomaterials** 1997 Jan;18(1):69–74
Impact of lead and sewage sludge on soil microbial biomass and carbon and nitrogen mineralization. Dar GH. **Bull Environ Contam Toxicol** 1997 Feb;58(2):234–40
Analysis of mutations in the creA gene involved in carbon catabolite repression in Aspergillus nidulans. Shroff RA, et al. **Can J Microbiol** 1996 Sep;42(9):950–9
Analysis of carbon metabolism in cultured cerebellar and cortical astrocytes. Martin M, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Jul;43(5):631–43
Carbon regulation of the cuticle–degrading enzyme PR1 from Metarhizium anisopliae may involve a trans–acting DNA–binding protein CRR1, a functional equivalent of the Aspergillus nidulans CREA protein. Screen S, et al. **Curr Genet** 1997 Jun;31(6):511–8
Integration of amino acid and carbon intermediary metabolism: studies with uniformly labeled tracers and mass isotopomer analysis. Reeds PJ, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S50–8
Effect of carbon source on the expression of celA1, a cellulase–encoding gene from Streptomyces halstedii JM8. Fernández–Abalos JM, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):97–103
Analysis of CcpA mutations defective in carbon catabolite repression in Bacillus megaterium. Kraus A, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):221–6
Carbon repression in Aspergilli. Ruijter GJ, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):103–14 (51 ref.)
Aryl beta–galactosidase from Sclerotium rolfsii: physiological and biochemical studies. Bhosale JH, et al. **Hindustan Antibiot Bull** 1995 Feb–Nov;37(1–4):25–36
A carbon–limited medium for growth and sporulation of Bacillus thuringiensis var. kurstaki. Liu WM, et al. **Hindustan Antibiot Bull** 1995 Feb–Nov;37(1–4):1–8
Characterization of the resistance of pyrolytic carbon to abrasive wear. Vitale E, et al. **Int J Artif Organs** 1995 Dec; 18(12):777–85
Net carbon flux across subcutaneous adipose tissue after a standard meal in normal–weight and insulin–resistant obese subjects. Frayn KN, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):795–800
Effects of sigmaS and the transcriptional activator AppY on induction of the Escherichia coli hya and cbdAB–appA operons in response to carbon and phosphate starvation. Atlung T, et al. **J Bacteriol** 1997 Apr;179(7):2141–6
Carbon source regulation of PIS1 gene expression in Saccharomyces cerevisiae involves the MCM1 gene and the two–component regulatory gene, SLN1. Anderson MS, et al. **J Biol Chem** 1996 Oct 25;271(43):26596–601
Isolation of a carbon source–regulated gene from Ustilago maydis. Bottin A, et al. **Mol Gen Genet** 1996 Dec 13; 253(3):342–52
Uptake of inorganic carbon in the cyanobacterium Synechocystis PCC6803: physiological and genetic evidence for a high–affinity uptake system [see comments] Bëdu S, et al. **Mol Microbiol** 1995 Nov;18(3):559–68. Comment in: Mol Microbiol 1997 Apr;24(1):229–30.
HatA and HatR, implicated in the regulation of inorganic carbon uptake process in Synechocystis PCC6803, may contain WD domains [letter] Bédu S, et al. **Mol Microbiol** 1997 Apr;24(1):230
HatA and HatR, implicated in the uptake of inorganic carbon in Synechocystis PCC6803, contain WD40 domains [letter; comment] Dagnall BH, et al. **Mol Microbiol** 1997 Apr; 24(1):229–30. Comment on: Mol Microbiol 1995 Nov;18(3):559–68.
A newly identified gene cluster in Aspergillus nidulans comprises five novel genes localized in the alc region that are controlled both by the specific transactivator AlcR and the general carbon–catabolite repressor CreA. Fillinger S, et al. **Mol Microbiol** 1996 May;20(3):475–88
The bld mutants of Streptomyces coelicolor are defective in the regulation of carbon utilization, morphogenesis and cell—cell signalling. Pope MK, et al. **Mol Microbiol** 1996 Feb;19(4):747–56
Essential roles of core starvation–stress response loci in carbon–starvation–inducible cross–resistance and hydrogen peroxide–inducible adaptive resistance to oxidative challenge in Salmonella typhimurium. Seymour RL, et al. **Mol Microbiol** 1996 May;20(3):497–505
The Bacillus subtilis crh gene encodes a HPr–like protein involved in carbon catabolite repression. Galinier A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8439–44
Production of chitinase from shellfish waste by Pseudomonas aeruginosa K–187. Wang SL, et al. **Proc Natl Sci Counc Repub China B** 1997 Apr;21(2):71–8

PHARMACOKINETICS

Pharmacokinetics of a water–soluble fullerene in rats. Rajagopalan P, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2262–5
Adsorption of inhalational anesthetics and hydrochlorofluorocarbons on activated carbons as a biological model. Tanada S, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):231–5
The phagocytosis activity during conventional and laparoscopic operations in the rat. A preliminary study. Gutt CN, et al. **Surg Endosc** 1997 Sep;11(9):899–901

PHARMACOLOGY

Alveolar macrophages stimulated with titanium dioxide, chrysotile asbestos, and residual oil fly ash upregulate the PDGF receptor–alpha on lung fibroblasts through an IL–1beta–dependent mechanism. Lindroos PM, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):283–92
Photodynamic inactivation of enveloped viruses by buckminsterfullerene. Käsermann F, et al. **Antiviral Res** 1997 Mar;34(1):65–70
Asymmetrical distribution of cardiolipin in yeast inner mitochondrial membrane triggered by carbon catabolite repression. Gallet PF, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):627–34
Human monocytes stimulation by particles of hydroxyapatite, silicon carbide and diamond: in vitro studies of new prosthesis coatings. Nordsletten L, et al. **Biomaterials** 1996 Aug;17(15):1521–7
Comparison of immunological effects of Fullerene C60 and raw soot from Fullerene production on alveolar macrophages and macrophage like cells in vitro. Baierl T, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):508–11
Polyhydroxylated C60, fullerenol, a novel free–radical trapper, prevented hydrogen peroxide– and cumene hydroperoxide–elicited changes in rat hippocampus in–vitro. Tsai MC, et al. **J Pharm Pharmacol** 1997 Apr; 49(4):438–45
Quenching of nitric oxide by an oral carbonaceous adsorbent. Iwamoto N, et al. **Jpn J Pharmacol** 1997 Jun;74(2):213–6
Accumulation of indoxyl–beta–D–glucuronide in uremic serum: suppression of its production by oral sorbent and efficient removal by hemodialysis. Niwa T, et al. **Nephron** 1996;74(1):72–8
Buckminsterfullerenol free radical scavengers reduce excitotoxic and apoptotic death of cultured cortical neurons. Dugan LL, et al. **Neurobiol Dis** 1996 Apr; 3(2):129–35
Induction of prostaglandin H synthase 2 in human airway epithelial cells exposed to residual oil fly ash. Samet JM, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):159–68
Influence of carbon particles on superoxide and hydrogen peroxide radical release during the killing of Mycobacterium bovis by alveolar macrophages. Attwood EM, et al. **Tuber Lung Dis** 1996 Oct;77(5):462–7
[Study of the biological activity of the water–soluble fullerene complexes] Pukhova IaI, et al. **Dokl Akad Nauk** 1997 Jul;355(2):269–72 **(Rus)**

PHYSIOLOGY

Effect of carbon source on localized adherence of enteropathogenic Escherichia coli. Vanmaele RP, et al. **Infect Immun** 1997 Apr;65(4):1408–13

STANDARDS

Wear assessment in bileaflet heart valves. Arru P, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S133–43; discussion 144–8 (26 ref.)
Mechanical performance of pyrolytic carbon in prosthetic heart valve applications. Cao H. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S32–49 (58 ref.)
Mechanical cardiac valve prostheses: wear characteristics and magnitudes in three bileaflet valves. Elizondo DR, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S115–23; discussion 144–8
Pyrolytic carbon indentation crack morphology. Ely JL, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S65–71
Finite element analysis of indentation tests on pyrolytic carbon. Gilpin CB, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S72–8
Effect of repetitive impact on the mechanical strength of pyrolytic carbon. Kepner J, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S50–8
An initial investigation into the wear and damage within the pivots of three types of bileaflet mechanical heart valves. King MJ, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S111–4; discussion 144–8
Fatigue of isotropic pyrolytic carbon used in mechanical heart valves. Ma L, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S59–64
Structural failure of pyrolytic carbon heart valves. Richard G, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S79–85 (11 ref.)
Fatigue and fracture of pyrolytic carbon: a damage– tolerant approach to structural integrity and life prediction in "ceramic" heart valve prostheses. Ritchie RO. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S9–31 (60 ref.)
Structural integrity assessment of heart valve prostheses: a damage tolerance analysis of the CarboMedics Prosthetic Heart Valve. Ryder JK, et al. **J Heart Valve Dis** 1996 Jun;

5 Suppl 1:S86–96 (32 ref.)

THERAPEUTIC USE

Carborundum, a bulk similar to dietary fibers but chemically inert, does not decrease colon carcinogenesis. Corpet DE, et al. **Cancer Lett** 1997 Mar 19;114(1–2):35–8

Effect of oral adsorbent on the progression of diabetic nephropathy [letter] Okada K, et al. **Nephron** 1997; 76(4):489–90

TOXICITY

Toxicity in vitro of some silicon carbides and silicon nitrides: whiskers and powders. Svensson I, et al. **Am J Ind Med** 1997 Mar;31(3):335–43

Effects of particle exposure and particle–elicited inflammatory cells on mutation in rat alveolar epithelial cells. Driscoll KE, et al. **Carcinogenesis** 1997 Feb; 18(2):423–30

Mutagenicity of the fullerene C60–generated singlet oxygen dependent formation of lipid peroxides. Sera N, et al. **Carcinogenesis** 1996 Oct;17(10):2163–9

Metal and sulfate composition of residual oil fly ash determines airway hyperreactivity and lung injury in rats. Gavett SH, et al. **Environ Res** 1997 Feb;72(2):162–72

Eosinophilic lung inflammation in particulate–induced lung injury: technical consideration in isolating RNA for gene expression studies. Kodavanti UP, et al. **Exp Lung Res** 1996 Sep–Oct;22(5):541–54

Novel harmful effects of [60]fullerene on mouse embryos in vitro and in vivo. Tsuchiya T, et al. **FEBS Lett** 1996 Sep 9;393(1):139–45

Reduction of the ex vivo production of tumor necrosis factor alpha by alveolar phagocytes after administration of coal fly ash and copper smelter dust. Broeckaert F, et al. **J Toxicol Environ Health** 1997 Jun 6;51(2):189–202

Soluble transition metals mediate residual oil fly ash induced acute lung injury. Dreher KL, et al. **J Toxicol Environ Health** 1997 Feb 21;50(3):285–305

Lung cancer rates in carbon–black workers are discordant with predictions from rat bioassay data. Valberg PA, et al. **Regul Toxicol Pharmacol** 1996 Oct;24(2 Pt 1):155–70 (67 ref.)

The carcinogenic potency of carbon particles with and without PAH after repeated intratracheal administration in the rat. Dasenbrock C, et al. **Toxicol Lett** 1996 Nov; 88(1–3):15–21

Inhalation of acid coated carbon black particles impairs alveolar macrophage phagocytosis. Jakab GJ, et al. **Toxicol Lett** 1996 Nov;88(1–3):243–8

Diesel exhaust particles and carbon black have adjuvant activity on the local lymph node response and systemic IgE production to ovalbumin. Løvik M, et al. **Toxicology** 1997 Aug 15;121(2):165–78

[Determination of the genotoxicity of fullerene C60 and fullerol using the method of somatic mosaics on cells of Drosophila melanogaster wing and SOS–chromotest] Zakharenko LP, et al. **Genetika** 1997 Mar;33(3):405–9 (Eng. Abstr.) **(Rus)**

URINE

Urinary excretion of ethylenethiourea in five volunteers on a controlled diet (multicentric study). Aprea C, et al. **Sci Total Environ** 1997 Sep 6;203(2):167–79

CARBON DIOXIDE

see related
CAPNOGRAPHY
HYPERCAPNIA
HYPOCAPNIA

Periocular skin reshaping by CO2 laser coagulation. Trelles MA, et al. **Aesthetic Plast Surg** 1996 Jul–Aug;20(4):327–31

Cone size after carbon dioxide conization [letter] Raio L, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):493

Mechanical versus CO2 laser occlusion of the posterior semicircular canal in humans. Antonelli PJ, et al. **Am J Otol** 1996 May;17(3):416–20

CO2 laser excision of lupus pernio of the face. Stack BC Jr, et al. **Am J Otolaryngol** 1996 Jul–Aug;17(4):260–3

Obstruction due to retained carbon dioxide absorber canister wrapping [letter; comment] Ransom ES, et al. **Anesth Analg** 1997 Mar;84(3):703. Comment on: Anesth Analg 1996 Aug;83(2):425–6.

Re: UltraPulse carbon dioxide laser with computer pattern generator for facial cosmetic surgery and resurfacing [letter; comment] Shakespeare PG, et al. **Ann Plast Surg** 1997 May;38(5):547–50. Comment on: Ann Plast Surg 1996 May;36(5):522–9.

Carbon dioxide laser transconjunctival lower lid blepharoplasty complications. Trelles MA, et al. **Ann Plast Surg** 1996 Nov;37(5):465–8

Hypersensitivity to carbon dioxide as a disease–specific trait marker. Coryell W. **Biol Psychiatry** 1997 Feb 1; 41(3):259–63

Air or CO2 as an insufflation agent for double contrast barium enema [letter; comment] Matson MB, et al. **Clin Radiol** 1996 Oct;51(10):741–2. Comment on: Clin Radiol 1995 Aug;50(8):558–61. Comment on: Clin Radiol 1996 May;51(5):382.

A cleaner bill of health [news] Black H. **Environ Health Perspect** 1996 May;104(5):488–90

Ventilatory response to exercise and to carbon dioxide in patients with heart failure. Andreas S, et al. **Eur Heart J** 1996 May;17(5):750–5

Dead space and slope indices from the expiratory carbon dioxide tension–volume curve. Kars AH, et al. **Eur Respir J** 1997 Aug;10(8):1829–36

Effects of exercise and CO2 inhalation on intersubject variability in ventilatory and heart rate responses to progressive hypoxia. Sato F, et al. **Eur Respir J** 1996 May; 9(5):960–7

The effect of nitrous oxide and carbon dioxide pneumoperitoneum on operative and postoperative pain during laparoscopic sterilization under local anesthesia. Lipscomb GH, et al. **J Am Assoc Gynecol Laparosc** 1994 Nov;2(1):57–60

Efficacy of carbon dioxide, 1–octen–3–ol, and lactic acid in modified Fay–Prince traps as compared to man–landing catch of Aedes aegypti. Canyon DV, et al. **J Am Mosq Control Assoc** 1997 Mar;13(1):66–70

Ventilatory stability to transient CO2 disturbances in hyperoxia and normoxia in awake humans. Lai J, et al. **J Appl Physiol** 1997 Aug;83(2):466–76

In situ derivatisation and extraction of volatile fatty acids entrapped on anion–exchange resin from aqueous solutions and urine as a test matrix using pentafluorobenzyl bromide in supercritical carbon dioxide. Cummins MT, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):11–9

Fluvoxamine attenuates panic induced by 35% CO2 challenge. Pols HJ, et al. **J Clin Psychiatry** 1996 Nov; 57(11):539–42

Extraction of pharmaceuticals using pressurised carbon dioxide. Dean JR, et al. **J Pharm Biomed Anal** 1997 Apr; 15(7):875–86 (42 ref.)

Mosquito responses to carbon dioxide in a west African Sudan savanna village. Costantini C, et al. **Med Vet Entomol** 1996 Jul;10(3):220–7

Responses of mosquitoes of the Anopheles farauti complex to 1–octen–3–ol and light in combination with carbon dioxide in northern Queensland, Australia. van den Hurk AF, et al. **Med Vet Entomol** 1997 Apr;11(2):177–80

Effects of population and affluence on CO2 emissions. Dietz T, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):175–9

Carbon dioxide induced panic attack in panic disorder in Japan. Sasaki I, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1145–57

The relationship between airway carbon dioxide excretion and cardiac output during cardiopulmonary resuscitation. Blumenthal SR, et al. **Resuscitation** 1997 Jun;34(3):263–70

The influence of laparotomy and laparoscopy on tumor growth in a rat model. Jacobi CA, et al. **Surg Endosc** 1997 Jun;11(6):618–21

[Comparison of hemodynamic and ventilatory effects of pneumoperitoneum using carbon dioxide or abdominal suspension during laparoscopic cholecystectomy] Demers P, et al. **Ann Chir** 1996;50(8):593–600 (Eng. Abstr.) **(Fre)**

[Carbon dioxide embolism during hysteroscopy followed by transient blindness] Ghimouz A, et al. **Ann Fr Anesth Reanim** 1996;15(2):192–5 (20 ref.) (Eng. Abstr.) **(Fre)**

[Fulminant air embolism in arthroscopy of the shoulder joint using CO2] Bauereis C, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Dec; 31(10):654–7 (Eng. Abstr.) **(Ger)**

[Uninterrupted gas supply for gas insufflation equipment] Dey U. **Biomed Tech (Berl)** 1997 Apr;42(4):97–8 **(Ger)**

[Effect of CO2 pneumoperitoneum on intraperitoneal tumor growth in the animal model] Köster S, et al. **Geburtshilfe Frauenheilkd** 1996 Sep;56(9):458–61 (Eng. Abstr.) **(Ger)**

[Effect of laparotomy and laparoscopy with CO2 or helium on bacterial translocation in the rat model] Jacobi CA, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:247–51 (Eng. Abstr.) **(Ger)**

[Effects of intraperitoneal CO2 administration on intraperitoneal metastasis] Schaeff B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:345–9 **(Ger)**

[Laparoscopic cholecystectomy—effect of position changes and CO2 pneumoperitoneum on hemodynamic, respiratory and endocrinologic parameters] Berg K, et al. **Zentralbl Chir** 1997;122(5):395–404 (Eng. Abstr.) **(Ger)**

[Safety evaluation of self–contained–self–rescures—carbon dioxide absorption of SCSRs under heavy work load] Takahashi M, et al. **Sangyo Eiseigaku Zasshi** 1996 Jul; 38(4):149–55 (Eng. Abstr.) **(Jpn)**

[The application of microspot micromanipulators in carbon dioxide laser surgery of laryngeal cancer] Szmeja Z, et al. **Otolaryngol Pol** 1995;49(6):598–601 (Eng. Abstr.) **(Pol)**

[Effects of heterogeneity of gas channels on carbon dioxide output of membrane oxygenators] Vishnevskiĭ ME, et al. **Med Tekh** 1996 Sep–Oct;(5):24–8 (Eng. Abstr.) **(Rus)**

[Treatment of chronic snoring with CO2 laser] Del Cañizo Alvarez A. **Acta Otorrinolaringol Esp** 1997 Mar;48(2):121–5 (Eng. Abstr.) **(Spa)**

[Anesthesia for laparoscopic cholecystectomy with CO2: comparison of hemodynamic and ventilatory behavior using 2 different anesthetic techniques (letter; comment)] Sabaté A, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul; 43(6):227–8. Comment on: Rev Esp Anestesiol Reanim 1996 Jan;43(1):12–6. **(Spa)**

[Carbon dioxide embolism in laparoscopic cholecystectomy. Early diagnosis reduces the risk of fatal complication] Jilcke P, et al. **Lakartidningen** 1996 Nov 20;93(47):4279–80 **(Swe)**

ADMINISTRATION & DOSAGE

Comparison of carbogen inhalation and intravenous heparin infusion therapies in idiopathic sudden sensorineural hearing loss. Rahko T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:86–7

A comparison of the pathophysiologic effects of carbon dioxide, nitrous oxide, and helium pneumoperitoneum on intracranial pressure. Schöb OM, et al. **Am J Surg** 1996 Sep;172(3):248–53

Massive subcutaneous emphysema and severe hypercarbia in a patient during endoscopic transcervical parathyroidectomy using carbon dioxide insufflation. Gottlieb A, et al. **Anesth Analg** 1997 May;84(5):1154–6

Effect of carbon dioxide–enriched water and fresh water on the cutaneous microcirculation and oxygen tension in the skin of the foot. Hartmann BR, et al. **Angiology** 1997 Apr; 48(4):337–43

Sudden deafness: a comparison of anticoagulant therapy and carbogen inhalation therapy. Kallinen J, et al. **Ann Otol Rhinol Laryngol** 1997 Jan;106(1):22–6

A study of mixing conditions during nitric oxide administration using simultaneous fast response chemiluminescence and capnography. Foubert L, et al. **Br J Anaesth** 1997 Apr;78(4):436–8

The response to carbogen breathing in experimental tumour models monitored by gradient–recalled echo magnetic resonance imaging. Robinson SP, et al. **Br J Cancer** 1997; 75(7):1000–6

Short communication: a technique for delivering carbogen with high dose rate intraluminal brachytherapy in carcinoma of the oesophagus; early results and toxicity. Hoskin PJ, et al. **Br J Radiol** 1996 Nov;69(827):1049–51

Mild temperature hyperthermia combined with carbogen breathing increases tumor partial pressure of oxygen (pO2) and radiosensitivity. Griffin RJ, et al. **Cancer Res** 1996 Dec 15;56(24):5590–3

Mitral valve replacement via a right mini–thoracotomy in the dog: use of carbon dioxide to reduce intracardiac air. Peters WS, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1067–73

The effect of inhalation of different mixtures of O2 and CO2 on ocular fundus pulsations. Schmetterer L, et al. **Exp Eye Res** 1996 Oct;63(4):351–5

Theoretical interactions between ventilator settings and proximal deadspace ventilation during tracheal gas insufflation. Hotchkiss JR Jr, et al. **Intensive Care Med** 1996 Oct;22(10):1112–9

Comparison of carbon dioxide with continuous–flow technique for office hysteroscopy. Goldfarb HA. **J Am Assoc Gynecol Laparosc** 1996 Aug;3(4):571–4

Risk of contamination from laparoscopic carbon dioxide insufflators. Couper GW, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):231–2

Retroperitoneal and intraperitoneal CO2 insufflation have markedly different cardiovascular effects. Giebler RM, et al. **J Surg Res** 1997 Mar;68(2):153–60

Humane and practical implications of using carbon dioxide mixed with oxygen for anesthesia or euthanasia of rats. Danneman PJ, et al. **Lab Anim Sci** 1997 Aug;47(4):376–85

Hyperbaric oxygen improves tumor radiation response significantly more than carbogen/nicotinamide. Brizel DM, et al. **Radiat Res** 1997 Jun;147(6):715–20

The potential for improving radiotherapy outcome by improving the oxygen supply to solid tumours. Denekamp J, et al. **Strahlenther Onkol** 1996 Nov;172 Suppl 2:22–3

ARCON. Rojas A. **Strahlenther Onkol** 1996 Nov;172 Suppl 2:34–5

Erroneous CO2 pressure readings in a morbidly obese patient [letter] Stalter KD. **Surg Endosc** 1997 Sep;11(9):970

Laparoscopic hypothermia: heat loss from insufflation gas flow. Huntington TR, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):153–5

Cerebral oxygen metabolism measured by near–infrared laser spectroscopy during laparoscopic cholecystectomy with CO2 insufflation. Kitajima T, et al. **Surg Laparosc Endosc** 1996 Jun;6(3):210–2

Welfare implications of gas stunning pigs: 3. The time to loss of somatosensory evoked potentials and spontaneous electrocorticogram of pigs during exposure to gases. Raj AB, et al. **Vet J** 1997 May;153(3):329–39

ADVERSE EFFECTS

Carbon dioxide embolism during laser endometrial ablation. Kelly M, et al. **Anaesthesia** 1997 Jan;52(1):65–7

Intraabdominal carbon dioxide insufflation in the pregnant ewe. Uterine blood flow, intraamniotic pressure, and cardiopulmonary effects. Cruz AM, et al. **Anesthesiology** 1996 Dec;85(6):1395–402

The effect of moderately increased CO2 concentration on perception of coherent motion. Yang Y, et al. **Aviat Space Environ Med** 1997 Mar;68(3):187–91

Fearful responding to repeated CO2 inhalation: a preliminary investigation. Beck JG, et al. **Behav Res Ther** 1996 Aug; 34(8):609–20

Anxiety sensitivity, suffocation fear, trait anxiety, and

breath-holding duration as predictors of response to carbon dioxide challenge. Eke M, et al. **Behav Res Ther** 1996 Aug; 34(8):603–7

Respiratory effects of CO2 pneumoperitoneum during transperitoneal laparoscopic urological surgery. Matsuda T, et al. **Eur Urol** 1996;30(4):484–9

Integration in human eye irritation. Hempel-Jorgensen A, et al. **Int Arch Occup Environ Health** 1997;69(4):289–94

Effects of carbon dioxide pneumoperitoneum in pigs with impaired pulmonary function. Dörsam J, et al. **J Endourol** 1997 Jun;11(3):185–9

Does laparoscopy adversely affect gas exchange and pulmonary mechanics in the newborn? An experimental study. Rubin SZ, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S69–73

Reducing the deleterious effects of intrauterine CO2 during fetoscopic surgery. Saiki Y, et al. **J Surg Res** 1997 Apr; 69(1):51–4

CO2 digital subtraction angiography: potential complications and their prevention. Caridi JG, et al. **J Vasc Interv Radiol** 1997 May-Jun;8(3):383–91 (33 ref.)

Livedo reticularis, rhabdomyolysis, massive intestinal infarction, and death after carbon dioxide arteriography. Rundback JH, et al. **J Vasc Surg** 1997 Aug;26(2):337–40 (13 ref.)

Apnea testing [letter; comment] Jeret JS. **Neurology** 1996 Apr;46(4):1192–3. Comment on: Neurology 1995 May;45(5):966–9.

Tolerance to nicotinamide and carbogen with radiation therapy for glioblastoma [letter; comment] Horsman MR. **Radiother Oncol** 1997 Apr;43(1):109–10. Comment on: Radiother Oncol 1996 Sep;40(3):245–7.

Tolerance of nicotinamide and carbogen with radiation therapy for glioblastoma [see comments] Pickles T, et al. **Radiother Oncol** 1996 Sep;40(3):245–7. Comment in: Radiother Oncol 1997 Apr;43(1):109–10. Comment in: Radiother Oncol 1997 Jun;43(3):324.

Rebreathing of exhaled gases: importance as a mechanism for the causal association between prone sleep and sudden infant death syndrome. Kemp JS. **Sleep** 1996 Dec;19(10 Suppl):S263–6

Aversive reactions of turkeys to argon, carbon dioxide and a mixture of carbon dioxide and argon. Raj AB. **Vet Rec** 1996 Jun 15;138(24):592–3

[Body temperature variations during laparoscopic cholecystectomies (see comments)] Castillo V, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):201–3 (Eng. Abstr.). Comment in: Rev Esp Anestesiol Reanim 1997 Jan;44(1):41. **(Spa)**

[Pulmonary embolism caused by CO2 (letter; comment)] Ferrando-Jordá A, et al. **Rev Esp Anestesiol Reanim** 1996 May;43(5):188. Comment on: Rev Esp Anestesiol Reanim 1995 Jun-Jul;42(6):222–32. **(Spa)**

[Intraperitoneal insufflation of CO2 and body temperature (letter; comment)] Figueredo-Gaspari E. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):41. Comment on: Rev Esp Anestesiol Reanim 1996 Jun-Jul;43(6):201–3. **(Spa)**

[Severe hypercapnia of sudden, late appearance during a laparoscopic cholecystectomy (letter)] Laglera S, et al. **Rev Esp Anestesiol Reanim** 1996 Jan;43(1):44–5 **(Spa)**

[A case of PetCO2 increase in laparoscopic surgery: CO2 embolism? (letter)] Rubio CJ, et al. **Rev Esp Anestesiol Reanim** 1996 May;43(5):188–9 **(Spa)**

ANALYSIS

Continuous end-tidal carbon dioxide monitoring during normofrequent jet-ventilation. Bach LF, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1238–41

PCO2 electrodes at the surface of the kidney detect ischaemia. Tønnessen TI, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):510–9

Physiologic response of end-tidal carbon dioxide concentration to paced and induced tachycardias in human beings: basis for design of an automatic external physiologic defibrillator. Cohen TJ, et al. **Am Heart J** 1997 Mar; 133(3):375–7

Ventilatory effects of the single-breath CO2 test, compared with eructation, in cattle. Rollin F, et al. **Am J Vet Res** 1997 Mar;58(3):310–6

A simple method for frequent monitoring of gastric carbon dioxide. Corke CF, et al. **Anaesth Intensive Care** 1996 Oct; 24(5):590–3

End-tidal carbon dioxide measurement and breathing system filters. Hardman JG, et al. **Anaesthesia** 1997 Jul;52(7):646–8

The paradox of the StatCap carbon dioxide indicator. An experimental evaluation of rebreathing. Kapoor V, et al. **Anaesthesia** 1996 Sep;51(9):846–8

Comparison of end-tidal and arterial carbon dioxide in infants using laryngeal mask airway and endotracheal tube. Chhibber AK, et al. **Anesth Analg** 1997 Jan;84(1):51–3

Continuous intramucosal PCO2 measurement: is it actually necessary? [letter; comment] Tatara T. **Anesth Analg** 1997 Jan;84(1):235–6. Comment on: Anesth Analg 1996 Jul;83(1):6–11.

Monitoring gastric mucosal carbon dioxide pressure using gas tonometry: in vitro and in vivo validation studies. Creteur J, et al. **Anesthesiology** 1997 Sep;87(3):504–10

The effect of clonidine on cerebral blood flow velocity, carbon dioxide cerebral vasoreactivity, and response to increased arterial pressure in human volunteers. Lee HW, et al. **Anesthesiology** 1997 Sep;87(3):553–8

Bymixer provides on-line calibration of measurement of CO2 volume exhaled per breath. Breen PH, et al. **Ann Biomed Eng** 1997 Jan-Feb;25(1):164–71

False-positive end-tidal CO2 [letter; comment] Maleck W, et al. **Ann Emerg Med** 1997 Jul;30(1):116–7. Comment on: Ann Emerg Med 1996 Oct;28(4):458–9.

False-positive end-tidal CO2 [letter] [see comments] Montauk L, et al. **Ann Emerg Med** 1996 Oct;28(4):458–9 . Comment in: Ann Emerg Med 1997 Jul;30(1):116–7.

Dependence of middle ear gas composition on pulmonary ventilation. Mover-Lev H, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):314–9

Single ion gas chromatographic/mass spectroscopic quantitative analysis of environmental CO2 in agoraphobic environments. Cox S, et al. **Anxiety** 1994-95;1(6):275–7

Carbon dioxide sampling error due to leaking O-ring? [letter] Fletcher JE, et al. **Can J Anaesth** 1996 Aug;43(8):880

A simple method with no additional cost for monitoring ETCO2 using a standard nasal cannulae [letter] Tsui BC. **Can J Anaesth** 1997 Jul;44(7):787–8

Detection of distal renal tubular acidosis by urinary blood PCO2 gradient in patients with rheumatoid arthritis [letter] Rosemffet MG, et al. **Clin Exp Rheumatol** 1996 May-Jun; 14(3):351–2

Recovery of 13CO2 and 14CO2 in human bicarbonate studies: a critical review with original data. Leijssen DP, et al. **Clin Sci (Colch)** 1996 Dec;91(6):665–77

Tonometry. A review of clinical studies. Taylor DE, et al. **Crit Care Clin** 1996 Oct;12(4):1007–18 (46 ref.)

Noninvasive determination of cardiac output in a model of acute lung injury. Arnold JH, et al. **Crit Care Med** 1997 May;25(5):864–8

Noninvasive determination of cardiac output using single breath CO2 analysis. Arnold JH, et al. **Crit Care Med** 1996 Oct;24(10):1701–5

Continuous assessment of gastric intramucosal PCO2 and pH in hemorrhagic shock using capnometric recirculating gas tonometry. Guzman JA, et al. **Crit Care Med** 1997 Mar; 25(3):533–7

Continuous measurement of gut luminal PCO2 in the rat: responses to transient episodes of graded aortic hypotension [see comments] Morgan TJ, et al. **Crit Care Med** 1997 Sep; 25(9):1575–8. Comment in: Crit Care Med 1997 Sep;25(9):1458–9.

Significant reduction in minute ventilation and peak inspiratory pressures with arteriovenous CO2 removal during severe respiratory failure. Tao W, et al. **Crit Care Med** 1997 Apr;25(4):689–95

The 13C-mixed triglyceride breath test in healthy adults: determinants of the 13CO2 response. Kalivianakis M, et al. **Eur J Clin Invest** 1997 May;27(5):434–42

Transcutaneous and arterial carbon dioxide tension during intermittent umbilical cord occlusion in fetal sheep. Bergmans MG, et al. **Gynecol Obstet Invest** 1997; 43(3):150–4

Validation of air tonometric measurement of gastric regional concentrations of CO2 in critically ill septic patients. Heinonen PO, et al. **Intensive Care Med** 1997 May; 23(5):524–9

Advantage of buffered solutions or automated capnometry in air-filled balloons for use in gastric tonometry. Temmesfeld-Wollbrück B, et al. **Intensive Care Med** 1997 Apr;23(4):423–7

Methods for detecting local intestinal ischemic anaerobic metabolic acidosis by PCO2. Rozenfeld RA, et al. **J Appl Physiol** 1996 Oct;81(4):1834–42

Sources of variation in measurements of carbon dioxide levels inside incubators. Boone WR, et al. **J Assist Reprod Genet** 1996 Aug;13(7):606–8

End-tidal PCO2 monitoring via nasal cannulae in pediatric patients: accuracy and sources of error. Friesen RH, et al. **J Clin Monit** 1996 Mar;12(2):155–9

Assessment of errors when expiratory condensate PCO2 is used as a proxy for mixed expired PCO2 during mechanical ventilation. Imanaka H, et al. **J Clin Monit** 1997 Jul; 13(4):215–22

In vitro evaluation of intragastric PCO2 measurement by air tonometry. Kolkman JJ, et al. **J Clin Monit** 1997 Mar; 13(2):115–9

Esophageal-tracheal Combitube, colorimetric carbon dioxide detection, and the esophageal detector device [letter; comment] Maleck WH, et al. **J Clin Monit** 1996 Mar; 12(2):203. Comment on: J Clin Monit 1995 Sep;11(5):311–6.

Poor in vivo reproducibility of gastric intramucosal pH determined by saline-filled balloon tonometry. Oud L, et al. **J Crit Care** 1996 Sep;11(3):144–50

Mt. Cimone Observatory: baseline station for the measurement of gaseous substances and radioactive tracers in the atmosphere. Bonasoni P, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2-3):239–44

High end tidal CO2 association with blood pressure response to sodium loading in older adults. Anderson DE, et al. **J Hypertens** 1996 Sep;14(9):1073–9

Intraoperative end-tidal carbon dioxide levels and derived calculations correlated with outcome in trauma patients. Wilson RF, et al. **J Trauma** 1996 Oct;41(4):606–11

Intravenous nitrate vasodilators and exhaled nitric oxide [letter] Marczin N, et al. **Lancet** 1997 Jun 14;349(9067):1742

Arterial to end-tidal CO2 gradient as an indicator of silent pulmonary embolism [letter] Taniguchi S, et al. **Lancet** 1996 Nov 23;348(9039):1451

Arterial to end-tidal CO2 gradient as an adjunct to unmasking silent pulmonary embolism [letter] Taniguchi S, et al. **Lancet** 1996 Dec 21-28;348(9043):1733

Measurement of total carbon dioxide production by means of D2O18. 1955 [classical article] [see comments] Lifson N, et al. **Obes Res** 1997 Jan;5(1):78–84. Comment in: Obes Res 1997 Jan;5(1):71–7.

Apparatus for endtidal carbon dioxide measurement for neonatal anaesthesia [letter] Goldsmith AL, et al. **Paediatr Anaesth** 1996;6(1):80

Noninvasive capnometry in a pediatric population with respiratory emergencies. Abramo TJ, et al. **Pediatr Emerg Care** 1996 Aug;12(4):252–4

Initial end-tidal CO2 is markedly elevated during cardiopulmonary resuscitation after asphyxial cardiac arrest. Berg RA, et al. **Pediatr Emerg Care** 1996 Aug; 12(4):245–8

Alterations of end-tidal carbon dioxide during the intrahospital transport of children. Tobias JD, et al. **Pediatr Emerg Care** 1996 Aug;12(4):249–51

Subcutaneous oxygen and carbon dioxide tensions during head-up tilt-induced central hypovolaemia in humans. Larsen PN, et al. **Scand J Clin Lab Invest** 1996 Feb; 56(1):17–24

Organics and other molecules in the surfaces of Callisto and Ganymede. McCord TB, et al. **Science** 1997 Oct 10; 278(5336):271–5

Effect of PCO2 changes induced by head-upright tilt on transcranial Doppler recordings. Cencetti S, et al. **Stroke** 1997 Jun;28(6):1195–7

Pulmonary function values in Friesian and double-muscled calves during acute poikilocapnic hypoxia. Rollin F, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):79–90

[End-tidal CO2 measurement in anesthetic gases. An important global measurement in emergency medicine: theoretical background, indications and overview of available, transportable measurement systems] Brambrink AM. **Anaesthesist** 1997 Jul;46(7):604–12 (21 ref.) (Eng. Abstr.) **(Ger)**

[Semiquantitative capnometry--helpful in verification of tube position in trauma patients?] Helm M, et al. **Unfallchirurg** 1996 Jan;99(1):11–6 (Eng. Abstr.) **(Ger)**

[Is the orthopedically correct lifting technique rational from a cardiopulmonary and metabolic viewpoint?] Fromme A, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar-Apr;135(2):157–61 (Eng. Abstr.) **(Ger)**

[Quality of indoor air in nursery schools with different building characteristics] Leoni E, et al. **Ann Ig** 1997 Mar-Apr;9(2):133–42 **(Ita)**

[Usefulness of NODSS (nasal/oral discriminate sampling system) in end-tidal carbon dioxide gas monitoring] Imai K, et al. **Masui** 1996 Jul;45(7):837–41 (Eng. Abstr.) **(Jpn)**

[A new colorimetric CO2 indicator Colibri] Nishiyama T, et al. **Masui** 1996 Jun;45(6):763–5 (Eng. Abstr.) **(Jpn)**

[Methodological study of 13C-urea breath test for detection of Helicobacter pylori infection] Ohara S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):530–6 (Eng. Abstr.) **(Jpn)**

[The contents of the stomach was full of 13CO2 gas in patients with Helicobacter pylori after oral administration of 13C-urea] Urita Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):229 **(Jpn)**

[Rapid method of the determination of carbon dioxide in the air of premises] Karelin ON, et al. **Gig Sanit** 1996 Jul-Aug; (4):56 **(Rus)**

[Capnography in the detection of partial extubation (letter)] Ortiz JR, et al. **Rev Esp Anestesiol Reanim** 1996 Jan; 43(1):45–6 **(Spa)**

ANTAGONISTS & INHIBITORS

Suppression of CO2-induced relaxation of bovine retinal pericytes by angiotensin II. Matsugi T, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):652–7

BLOOD

Biological basis for PCO2 as a detector of ischemia. Tønnessen TI. **Acta Anaesthesiol Scand** 1997 Jun; 41(6):659–69 (79 ref.)

Brain tissue pO2 in relation to cerebral perfusion pressure, TCD findings and TCD-CO2-reactivity after severe head injury. Dings J, et al. **Acta Neurochir (Wien)** 1996; 138(4):425–34

Arterio-jugular differences of oxygen (AVDO2) for bedside assessment of CO2-reactivity and autoregulation in the acute phase of severe head injury. Sahuquillo J, et al. **Acta Neurochir (Wien)** 1996;138(4):435–44

Periventricular leukomalacia associated with hypocarbia. Kubota M, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):57–60

Dynamic sensitivity of carotid chemoreceptors to CO2 in the newborn lamb. Calder N, et al. **Adv Exp Med Biol** 1996;410:391–6

Determination of the PCO2-dependent component of the H+ concentration in venous and arterial blood plasma. Mochizuki M. **Adv Exp Med Biol** 1997;411:55–64

[Base excess] and [strong ion difference] during O2-CO2 exchange. Schlichtig R. **Adv Exp Med Biol** 1997;411:97–102

Prolegomena. Chemoreception upstream of transmitters. Torrance RW. **Adv Exp Med Biol** 1996;410:13–38 (49 ref.)

Identification of the anaerobic threshold using double product in patients with coronary artery disease. Brubaker

PH, et al. **Am J Cardiol** 1997 Feb 1;79(3):360–2

The magnitude of metabolic acidosis is dependent on differences in bicarbonate assays [see comments] Bray SH, et al. **Am J Kidney Dis** 1996 Nov;28(5):700–3. Comment in: Am J Kidney Dis 1997 Jun;29(6):983–4.

Differences in total carbon dioxide results are not due to different assay techniques [letter; comment] Parry DM, et al. **Am J Kidney Dis** 1997 Jun;29(6):983–4. Comment on: Am J Kidney Dis 1996 Nov;28(5):700–3.

Modulation of myogenic responsiveness by CO2 in rat diaphragmatic arterioles: role of the endothelium. Nagi MM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1419–25

Catechol changes in the rat rostral ventrolateral medulla following changes in systemic CO2. Rentero N, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R947–55

Tracheal gas insufflation is a useful adjunct in permissive hypercapnic management of acute respiratory distress syndrome. Barnett CC, et al. **Am J Surg** 1996 Nov; 172(5):518–21; discussion 521–2

Ventilatory and arterial blood gas tension adjustments to strenuous exercise in standardbreds. Art T, et al. **Am J Vet Res** 1995 Oct;56(10):1332–7

Cerebrospinal fluid acid–base status during normocapnia and acute hypercapnia in equine neonates. Geiser DR, et al. **Am J Vet Res** 1996 Oct;57(10):1483–7

Effects of sample handling on total carbon dioxide concentrations in canine and feline serum and blood. James KM, et al. **Am J Vet Res** 1997 Apr;58(4):343–7

Unusually low PaCO2 as a sign of pulmonary embolism in acute severe asthma? [letter] Clarke RC, et al. **Anaesth Intensive Care** 1996 Oct;24(5):617–8

Gastric tonometry and prediction of outcome in the critically ill. Arterial to intramucosal pH gradient and carbon dioxide gradient. Gomersall CD, et al. **Anaesthesia** 1997 Jul; 52(7):619–23

PaCO2 and apnoea testing for brain stem death [letter] [see comments] Visram A, et al. **Anaesthesia** 1997 Jan;52(1):87 . Comment in: Anaesthesia 1997 May;52(5):503.

Noninvasive monitoring of carbon dioxide during respiratory failure in toddlers and infants: end–tidal versus transcutaneous carbon dioxide. Tobias JD, et al. **Anesth Analg** 1997 Jul;85(1):55–8

The serum anion gap. Has the reference interval really fallen? Roberts WL, et al. **Arch Pathol Lab Med** 1997 Jun; 121(6):568–72

Changes in brain pH, PO2, PCO2, cerebral blood flow, and blood gases induced by a hyperosmolar oxyreplete hemosubstitute during cardiopulmonary bypass. Briceño JC, et al. **ASAIO J** 1997 Jan–Feb;43(1):13–8

Determination of low blood flow limits for arteriovenous carbon dioxide removal. Brunston RL Jr, et al. **ASAIO J** 1996 Sep–Oct;42(5):M845–9

Physiological and psychological effects associated with high carbon dioxide levels in healthy men. Maresh CM, et al. **Aviat Space Environ Med** 1997 Jan;68(1):41–5

Blood gas physiology. Pizzullo L. **Biomed Instrum Technol** 1997 May–Jun;31(3):290–4

Intravascular carbon dioxide monitoring using micro–flow colorimetry. Cooney CG, et al. **Biosens Bioelectron** 1997; 12(1):11–7

Can prolonged expiration manoeuvres improve the prediction of arterial PCO2 from end–tidal PCO2? Tavernier B, et al. **Br J Anaesth** 1997 May;78(5):536–40

Blood acidification in the swimbladder: mechanisms and metabolic pathways. Pelster B. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1133–8

Inhalation injury treated with extracorporeal CO2 elimination. Kornberger E, et al. **Burns** 1997 Jun; 23(4):354–9

Arterial to end–tidal carbon dioxide differences during neurosurgical procedures [letter] Isert PR. **Can J Anaesth** 1996 Feb;43(2):196–7

Respiratory mechanics and arterial blood gases during and after laparoscopic cholecystectomy. Iwasaka H, et al. **Can J Anaesth** 1996 Feb;43(2):129–33

Cerebrovascular CO2 reactivity in elderly and younger adult patients during sevoflurane anaesthesia. Nishiyama T, et al. **Can J Anaesth** 1997 Feb;44(2):160–4

Misleading end–tidal CO2 tensions. Wahba RW, et al. **Can J Anaesth** 1996 Aug;43(8):862–6 (23 ref.)

Hypoxic ventilatory response and breathlessness following hypocapnic and isocapnic hyperventilation. Chin K, et al. **Chest** 1997 Jul;112(1):154–63

Arterial blood gas changes during breath–holding from functional residual capacity. Sasse SA, et al. **Chest** 1996 Oct;110(4):958–64

Prediction of normal values for lactate threshold estimated by gas exchange in men and women. Davis JA, et al. **Eur J Appl Physiol** 1997;76(2):157–64

Prolonged enteral fast with parenteral nutrition decreases PCO2 and flow volume in portal vein: its association with bile secretion. Iwata T, et al. **Eur Surg Res** 1996; 28(2):146–53

Transcutaneous and arterial carbon dioxide tension at various conditions of fetal stress in lambs. Bergmans MG, et al. **Gynecol Obstet Invest** 1997;43(1):1–5

Transcutaneous and arterial carbon dioxide tension during intermittent umbilical cord occlusion in fetal sheep. Bergmans MG, et al. **Gynecol Obstet Invest** 1997; 43(3):150–4

Cord lactate, pH, and blood gases from healthy neonates. Shirey T, et al. **Gynecol Obstet Invest** 1996;41(1):15–9

Umbilical artery blood gases in healthy term newborn infants. Dudenhausen JW, et al. **Int J Gynaecol Obstet** 1997 Jun; 57(3):251–8

Type of solution and PCO2 measurement errors during tonometry. Kolkman JJ, et al. **Intensive Care Med** 1997 Jun;23(6):658–63

Changes in the arterial PCO2 during a single night's sleep in patients with obstructive sleep apnea. Chin K, et al. **Intern Med** 1997 Jul;36(7):454–60

Air hunger induced by acute increase in PCO2 adapts to chronic elevation of PCO2 in ventilated humans. Bloch–Salisbury E, et al. **J Appl Physiol** 1996 Aug; 81(2):949–56

Combined heart rate and activity improve estimates of oxygen consumption and carbon dioxide production rates. Moon JK, et al. **J Appl Physiol** 1996 Oct;81(4):1754–61

Differences between estimates and measured PaCO2 during rest and exercise in older subjects. Williams JS, et al. **J Appl Physiol** 1997 Jul;83(1):312–6

Arterial–venous PCO2 gradient in early postoperative hours following myocardial revascularization. Cavaliere F, et al. **J Cardiovasc Surg (Torino)** 1996 Oct;37(5):499–503

Permissive hypercapnia with high–frequency oscillatory ventilation and one–lung isolation for intraoperative management of lung resection in a patient with multiple bronchopleural fistulae. Tietjen CS, et al. **J Clin Anesth** 1997 Feb;9(1):69–73

Accuracy of measurement of an extremely high PCO2 [letter] Tsuji K, et al. **J Clin Monit** 1996 Mar;12(2):205–6

Tissue–arterial PCO2 difference is a better marker of ischemia than intramural pH (pHi) or arterial pH–pHi difference. Schlichtig R, et al. **J Crit Care** 1996 Jun;11(2):51–6

Oxygen and carbon dioxide transport in vertebrate erythrocytes: an evolutionary change in the role of membrane transport. Nikinmaa M. **J Exp Biol** 1997 Jan;200 (Pt 2):369–80 (118 ref.)

Simulated hibernation of sea turtles in the laboratory: I. Feeding, breathing frequency, blood pH, and blood gases. Moon DY, et al. **J Exp Zool** 1997 Aug 15;278(6):372–80

Changes in arterial blood PO2, PCO2, and pH during deep hypothermic circulatory arrest in adults. Kim TS, et al. **J Korean Med Sci** 1997 Jun;12(3):199–203

Application of transcut..neous blood carbon dioxide monitoring to the magnetic resonance imaging of rat. Yamamoto T, et al. **J Med Eng Technol** 1996 Jul–Oct; 20(4–5):164–8

Cerebral arteriovenous PCO2 difference and early global cerebral ischemia in a patient with acute severe head injury. Chieregato A, et al. **J Neurosurg Anesthesiol** 1997 Jul; 9(3):256–62

Effects of normo– and hypocapnic nitrous–oxide–inhalation on cerebral blood flow velocity in patients with brain tumors. Hörmann C, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):141–5

The use of hyperventilation in the acute management of severe traumatic brain injury. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):699–703 (35 ref.)

Can blood gas values predict pulmonary hypoplasia in antenatally diagnosed congenital diaphragmatic hernia? Germain JF, et al. **J Pediatr Surg** 1996 Dec;31(12):1634–9

Skin blood flow influences the transcutaneous PCO2 (tc PCO2) during stress in the guinea pig. Braems GA, et al. **J Perinat Med** 1996;24(2):155–61

Development of carotid chemoreceptor dynamic and steady–state sensitivity to CO2 in the newborn lamb. Calder NA, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):187–94

Influence of CO2 tension on hepatic hemodynamics during portal arterialization. Katagiri Y, et al. **J Surg Res** 1996 Feb 15;61(1):39–43

Effect of independent changes in mixed–venous PCO2 or PO2 on cardiac output in anesthetized sheep. Shanley CJ, et al. **J Surg Res** 1997 Aug;71(2):107–16

Routine blood–gas analysis and gastric tonometry: a reappraisal [letter] Rhodes A, et al. **Lancet** 1997 Aug 9; 350(9075):413

Venous–arterial PCO2 and pH gradients in acutely ill postsurgical patients. Brandi LS, et al. **Minerva Anestesiol** 1995 Sep;61(9):345–50

Measurement of nitric oxide in the rat cerebral cortex during hypercapnoea. Harada M, et al. **Neuroreport** 1997 Mar 3; 8(4):999–1002

Transcutaneous carbon dioxide measurement after craniotomy in spontaneously breathing patients. Drummond KJ, et al. **Neurosurgery** 1997 Aug;41(2):361–5; discussion 365–7

Brain tissue gases and pH during arteriovenous malformation resection. Hoffman WE, et al. **Neurosurgery** 1997 Feb; 40(2):294–300; discussion 300–1

Changes in carbon dioxide tension and oxygen saturation during deep sedation for paediatric cardiac catheterization. Friesen RH, et al. **Paediatr Anaesth** 1996;6(1):15–20

Seizure susceptibility during recovery from hypercapnia in neonatal dogs. Yoshioka H, et al. **Pediatr Neurol** 1996 Jul; 15(1):36–40

End–tidal estimates of arterial PCO2 for cardiac output measurement by CO2 rebreathing: a study in patients with cystic fibrosis and healthy controls. Pianosi P, et al. **Pediatr Pulmonol** 1996 Sep;22(3):154–60

Psychophysiological assessment of respiratory function in panic disorder: evidence for a hyperventilation subtype. Hegel MT, et al. **Psychosom Med** 1997 May–Jun; 59(3):224–30

Effects of changes in ventilation on respiratory discomfort during isocapnic exercise. Oku Y, et al. **Respir Physiol** 1996 Jul;104(2–3):107–14

The effect of exercise on the development of respiratory depression during sustained isocapnic hypoxia in humans. Pandit JJ, et al. **Respiration** 1997;64(1):86–95

Changes in arterial and transcutaneous oxygen and carbon dioxide tensions during and after voluntary hyperventilation. Steurer J, et al. **Respiration** 1997; 64(3):200–5

Blood gases and hypothermia: some theoretical and practical considerations. Kofstad J. **Scand J Clin Lab Invest Suppl** 1996;224:21–6 (8 ref.)

The relationship between Apgar score and umbilical arterial blood gas values in newborns. Energin M, et al. **Turk J Pediatr** 1996 Oct–Dec;38(4):447–57

[Accuracy of measurement and overestimation of CO2 of two capnometers intended for potential use in emergency medicine] Biedler A, et al. **Anaesthesist** 1996 Oct; 45(10):957–64 (Eng. Abstr.) **(Ger)**

[The effect of nitroglycerin on cerebrovascular circulation, cerebrovascular CO2–reactivity and blood flow rate in basal cerebral arteries] Weyland A, et al. **Anaesthesist** 1996 Nov;45(11):1037–44 (Eng. Abstr.) **(Ger)**

[Effect of endoscopic surgery techniques in children on ventilation] Schäfer R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):343–7 (Eng. Abstr.) **(Ger)**

[Evaluating physical fitness after unilateral lung transplantation with ergometry and blood gas analysis] Wuthe H, et al. **Pneumologie** 1996 Nov;50(11):773–8 (Eng. Abstr.) **(Ger)**

[Modification of cardiopulmonary performance parameters in patients with obstructive sleep apnea treated with nCPAP therapy] Konermann M, et al. **Wien Med Wochenschr** 1996;146(13–14):340–3 (Eng. Abstr.) **(Ger)**

[Prostagrandin E1–induced hypotension well maintains cerebral circulation and carbon dioxide reactivity in non–neurosurgical patients under sevoflurane–anesthesia] Hotta K, et al. **Masui** 1997 Feb;46(2):193–8 (Eng. Abstr.) **(Jpn)**

[The differences of the cerebral and spinal vessels in sensitivity to PaCO2 and vasoconstrictors] Iida H, et al. **Masui** 1997 Jan;46(1):2–9 (Eng. Abstr.) **(Jpn)**

[Effects of prostacyclin (PGI2) on pial vessel diameter and carbon–dioxide reactivity in cats] Nagahata T, et al. **Masui** 1996 Feb;45(2):194–9 (Eng. Abstr.) **(Jpn)**

[Arterial–venous carbon dioxide tension difference after hypothermic cardiopulmonary bypass] Utoh J, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):679–81 (Eng. Abstr.) **(Jpn)**

[The changes of blood gas analysis values and platelet aggregability on acute phase in the experimental model of pulmonary embolism prepared by sephadex G–75 (SG–75) injection] Yasugahira H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):747–54 (Eng. Abstr.) **(Jpn)**

[Catheterization of the superior bulb of the internal jugular vein and its identification based on blood gas analysis in heart surgery patients] Mierbekov EM, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):38–40 (Eng. Abstr.) **(Rus)**

[The loss of sensitivity of the respiratory system to carbon dioxide during activation of GABAergic brain structures] Tarakanov IA. **Biull Eksp Biol Med** 1997 Apr; 123(4):385–90 **(Rus)**

[New evidence for the inhibitory action of CO2 on generation of superoxide anion radicals by phagocytes in various tissues. (Mechanism of bio– and eco–effects of CO2)] Kogan AKh, et al. **Dokl Akad Nauk** 1996 May;348(3):413–6 **(Rus)**

[Gas exchange and gas transport in deeply cooled rats during slow and rapid warming using artificial pulmonary ventilation] Chuĭkin AE, et al. **Fiziol Zh Im I M Sechenova** 1996 May–Jun;82(5–6):77–86 (Eng. Abstr.) **(Rus)**

[The blood gas–transport function in patients with iron–deficiency anemia under measured physical loading] Ivanov AO, et al. **Patol Fiziol Eksp Ter** 1997 Apr–Jun; (2):37–9 **(Rus)**

[Detection of microbubbles formed in the blood/CO2 interphase during decompression in barometric conditions similar to laparoscopy] Muchada R, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):314–7 (Eng. Abstr.) **(Spa)**

[Influence of cardiac or respiratory pathology in the gasometric evolution during laparoscopic cholecystectomy] Vila C, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):310–3 (Eng. Abstr.) **(Spa)**

CEREBROSPINAL FLUID

Cerebrospinal fluid acid–base status during normocapnia and acute hypercapnia in equine neonates. Geiser DR, et al. **Am J Vet Res** 1996 Oct;57(10):1483–7

Carbon dioxide and oxygen partial pressure measurements in the cerebrospinal fluid in a conventional blood gas analyzer: analysis of bias and precision. Venkatesh B, et al. **J Neurol Sci** 1997 Mar 20;147(1):5–8

CARBON DIOXIDE

CHEMISTRY

Comparison of supercritical CHF3 and CO2 for extraction of sulfonamides from various food matrices. Combs MT, et al. **Anal Chem** 1996 Dec 15;68(24):4507–11

High carboxyhemoglobin concentrations occur in swine during desflurane anesthesia in the presence of partially dried carbon dioxide absorbents [see comments] Frink EJ Jr, et al. **Anesthesiology** 1997 Aug;87(2):308–16. Comment in: Anesthesiology 1997 Aug;87(2):202–3.

Reduction in the incidence of carbon monoxide exposures in humans undergoing general anesthesia [see comments] Woehlck HJ, et al. **Anesthesiology** 1997 Aug;87(2):228–34 . Comment in: Anesthesiology 1997 Aug;87(2):202–3.

Catalytic antibodies: the rerouting of chemical reactions. Towards electrophilic aromatic substitution by carbon dioxide. Yli-Kauhaluoma JT, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:26–31

Inhibition of peroxynitrite-mediated oxidation of glutathione by carbon dioxide. Zhang H, et al.
Arch Biochem Biophys 1997 Mar 1;339(1):183–9

Carbon dioxide: physiological catalyst for peroxynitrite-mediated cellular damage or cellular protectant? Lymar SV, et al. **Chem Res Toxicol** 1996 Jul-Aug;9(5):845–50 (40 ref.)

Comparison of supercritical CHF3 and CO2 and methanol-modified CHF3 and CO2 for extraction of sulfonamides from chicken liver. Ashraf-Khorassani M, et al. **J AOAC Int** 1996 Sep–Oct;79(5):1043–9

Preparation of liposomes encapsulating water-soluble compounds using supercritical carbon dioxide. Frederiksen L, et al. **J Pharm Sci** 1997 Aug;86(8):921–8

Pharmaceutical processing with supercritical carbon dioxide. Subramaniam B, et al. **J Pharm Sci** 1997 Aug;86(8):885–90

CONTRAINDICATIONS

Gasless laparoscopy—useless or useful? Hill DJ, et al.
J Am Assoc Gynecol Laparosc 1994 May;1(3):265–8

DIAGNOSTIC USE

1996 AUR Memorial Award. Densitometric analysis of eccentric vascular stenoses: comparison of CO2 and iodinated contrast media. Black CM, et al. **Acad Radiol** 1996 Dec;3(12):985–93

Susceptibility contrast imaging of CO2-induced changes in the blood volume of the human brain. Rostrup E, et al. **Acta Radiol** 1996 Sep;37(5):813–22

CO2 provocation of panic: symptomatic and manometric evaluation in patients with noncardiac chest pain [published erratum appears in Am J Gastroenterol 1997 Jul;92(7):1244] Stollman NH, et al. **Am J Gastroenterol** 1997 May; 92(5):839–42

Response to hyperventilation and 5.5% CO2 inhalation of subjects with types of specific phobia, panic disorder, or no mental disorder. Antony MM, et al.
Am J Psychiatry 1997 Aug;154(8):1089–95

CO2 challenge in nonclinical subjects [letter; comment] Perna G, et al. **Am J Psychiatry** 1997 Jun;154(6):886–7. Comment on: Am J Psychiatry 1996 Jun;153(6):823–5.

The practical use of carbon dioxide-induced anxiety in the diagnosis and care of patients with panic disorder. Ware MR, et al. **Ann Clin Psychiatry** 1996 Dec;8(4):199–202

Alprazolam premedication and 35% carbon dioxide vulnerability in panic patients. Pols H, et al.
Biol Psychiatry 1996 Nov 1;40(9):913–7

Heart rate, breathing, and subjective responses of a limited-symptom panic patient to 35% carbon dioxide challenge [letter] Bakal D, et al. **Can J Psychiatry** 1996 Dec;41(10):669–70

Chronic cluster headache: provocation with carbon dioxide breathing and nitroglycerin. Hannerz J, et al. **Headache** 1996 Mar;36(3):174–7

Evaluation of effect of treatment for invasive bladder cancer by ultrasonography with intra-arterial infusion of carbon dioxide microbubbles. Akimoto T, et al. **Invest Radiol** 1997 Jul;32(7):396–400

Modification of 35% carbon dioxide hypersensitivity across one week of treatment with clomipramine and fluvoxamine: a double-blind, randomized, placebo-controlled study. Perna G, et al. **J Clin Psychopharmacol** 1997 Jun; 17(3):173–8

The characteristics and frequency of augmented breaths during CO2-induced hyperpnoea of newborn infants. Cohen G, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):551–7

CO2 digital subtraction angiography: potential complications and their prevention. Caridi JG, et al.
J Vasc Interv Radiol 1997 May-Jun;8(3):383–91 (33 ref.)

Apnea testing [letter; comment] Jeret JS. **Neurology** 1996 Apr;46(4):1192–3. Comment on: Neurology 1995 May;45(5):966–9.

Clinical evaluation of near-infrared spectroscopy for testing cerebrovascular reactivity in patients with carotid artery disease. Smielewski P, et al. **Stroke** 1997 Feb;28(2):331–8

[Evaluation of carboxy-angiography in the study of arteriopathy of the lower limbs] Rolland Y, et al.
J Radiol 1997 Jan;78(1):41–7 (Eng. Abstr.) **(Fre)**

[Digital subtraction angiography with carbon dioxide using a new gas dosage system] Schmitz-Rode T, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jul;167(1):71–8 (Eng. Abstr.) **(Ger)**

[The diagnosis of intra-abdominal hemorrhages with CO2 as the contrast medium] Textor HJ, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jan;166(1):51–3 (Eng. Abstr.) **(Ger)**

[Carbon dioxide (CO2) as contrast medium for the new installation and follow-up of a TIPS] Wilhelm K, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Mar;166(3):238–42 (Eng. Abstr.) **(Ger)**

[Cerebral perfusion and oxygen metabolism in Parkinson's disease: positron emission tomographic study using oxygen-15-labeled CO2 and O2] Tanaka M, et al.
Nippon Rinsho 1997 Jan;55(1):218–21 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Hypercapnic stimulation and ventilation response in the syndrome of sleep obstructive apnea. Comparison of reinhalation and steady state (published erratum appears in Arch Bronconeumol 1996 Nov;32(9):452)] Soto Campos JG, et al. **Arch Bronconeumol** 1996 Aug-Sep;32(7):341–7 (Eng. Abstr.) **(Spa)**

METABOLISM

Continuous measurement of tissue oxygen and carbon dioxide gas tensions in dog liver in ischemia/reperfusion. Urakami A, et al. **Acta Med Okayama** 1996 Dec;50(6):285–92

Negative slope of exhaled CO2 profile: implications for ventilation heterogeneity during partial liquid ventilation. Mates EA, et al. **Adv Exp Med Biol** 1996;388:585–97

Bicarbonate and CO2 transport across the skin of the leopard frog, Rana pipiens: effect of PGF2alpha. Candia OA, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R640–7

Carbonic anhydrase facilitates CO2 and NH3 transport across the sarcolemma of trout white muscle. Henry RP, et al.
Am J Physiol 1997 Jun;272(6 Pt 2):R1754–61

Continuous measurement of 13C16O2 production from [13C]pyruvate by intact liver mitochondria: effect of HCO3-. Ono Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C98–106

Mechanism of the acceleration of CO2 production from pyruvate in liver mitochondria by HCO3-. Taguchi Y, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C92–100

Comparison of end-tidal PCO2 and average alveolar expired PCO2 during positive end-expiratory pressure [letter; comment] Fletcher R. **Anesth Analg** 1997 Jun;84(6):1393–5 . Comment on: Anesth Analg 1996 Feb;82(2):368–73.

Biodiversity and unity in biochemistry. Thauer R.
Antonie Van Leeuwenhoek 1997 Feb;71(1–2):21–32 (112 ref.)

Prediction of blood lactate accumulation from excess CO2 output during constant exercise. Hirakoba K, et al.
Appl Human Sci 1996 Sep;15(5):205–10

Kinetics of mixed venous CO2 pressure in incremental-load exercise. Yano T. **Appl Human Sci** 1997 Jan;16(1):15–8

Peroxynitrite reaction with carbon dioxide/bicarbonate: kinetics and influence on peroxynitrite-mediated oxidations. Denicola A, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):49–58

Identification of cbbBc as an additional distal gene of the chromosomal cbb CO2 fixation operon from Ralstonia eutropha. Bömmer D, et al. **Arch Microbiol** 1996 Oct; 166(4):245–51

Autotrophic carbon dioxide fixation in Acidianus brierleyi. Ishii M, et al. **Arch Microbiol** 1996 Dec;166(6):368–71

Ribulose-1,5-bisphosphate carboxylase/oxygenase from thermophilic red algae with a strong specificity for CO2 fixation. Uemura K, et al.
Biochem Biophys Res Commun 1997 Apr 17;233(2):568–71

Carbon dioxide catalysis of the reaction of peroxynitrite with ethyl acetoacetate: an example of aliphatic nitration by peroxynitrite. Uppu RM, et al.
Biochem Biophys Res Commun 1996 Dec 24;229(3):764–9

Plant polyketide synthases leading to stilbenoids have a domain catalyzing malonyl-CoA:CO2 exchange, malonyl-CoA decarboxylation, and covalent enzyme modification and a site for chain lengthening. Preisig-Müller R, et al. **Biochemistry** 1997 Jul 8; 36(27):8349–58

Quantitative evaluation of the role of a putative CO2-scavenging entity in the cyanobacterial CO2-concentrating mechanism. Fridlyand L, et al.
Biosystems 1996;37(3):229–38

Dynamic aspects of oxygen consumption and carbon dioxide production in swine. van Milgen J, et al. **Br J Nutr** 1997 Sep;78(3):397–410

CO interact with intracellular [H+] with and without CO2-HCO3- in the cat carotid chemosensory discharge. Osanai S, et al. **Brain Res** 1997 Aug 1;764(1–2):221–4

The interaction between O2 and CO2 movements during aerobic exercise in fish. Brauner CJ.
Braz J Med Biol Res 1995 Nov-Dec;28(11–12):1185–9

Assimilation of oxalate, acetate, and CO2 by Oxalobacter formigenes. Cornick NA, et al. **Can J Microbiol** 1996 Nov; 42(11):1081–6

Plants, CO2 and photosynthesis in the 21st century. Griffin KL, et al. **Chem Biol** 1996 Apr;3(4):245–54 (61 ref.)

The ISO Headspace CO2 Biodegradation Test. Battersby NS.
Chemosphere 1997 Apr;34(8):1813–22

Effect of acupuncture on cardiopulmonary function. Lin JG, et al. **Chin Med J (Engl)** 1996 Jun;109(6):482–5

Does the administration of carbicarb lead acutely to back-titration of non-bicarbonate buffers? Kamel KS.
Clin Nephrol 1996 Aug;46(2):112–6

Influence of dietary fiber consumption on oxidative metabolism and anaplerotic flux in isolated rat colonocytes. Marsman KE, et al. **Comp Biochem Physiol A Physiol** 1996 Sep;115(1):81–9

Brain parenchyma PO2, PCO2, and pH during and after hypoxic, ischemic brain insult in dogs. McKinley BA, et al. **Crit Care Med** 1996 Nov;24(11):1858–68

Gastric PCO2 tonometry is independent of carbonic anhydrase inhibition. Kolkman JJ, et al. **Dig Dis Sci** 1997 Jan;42(1):99–102

Kinetics of VO2 and VCO2 in the horse and comparison of five methods for determination of maximum oxygen uptake [see comments] Rose RJ, et al.
Equine Vet J Suppl 1990 Jun;(9):39–42. Comment in: Equine Vet J Suppl 1990 Jun;(9):5–6.

Maximal breath-holding time and immediate tissue CO2 storage capacity during head-out immersion in humans. Chang LP, et al. **Eur J Appl Physiol** 1996;73(3–4):210–8

Factors which alter the relationship between ventilation and carbon dioxide production during exercise in normal subjects. Clark AL, et al. **Eur J Appl Physiol** 1996; 73(1–2):144–8

Exercise and the oxidation and storage of glucose, maize-syrup solids and sucrose determined from breath 13CO2. Leese GP, et al. **Eur J Appl Physiol** 1996; 72(4):349–56

Fetal and maternal transcutaneous PCO2 levels during labour and the influence of epidural analgesia. Bergmans MG, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug; 67(2):127–32

A novel system to measure labelled CO2 and HCO3- fluxes across epithelia: corneal epithelium as model tissue. Candia OA. **Exp Eye Res** 1996 Aug;63(2):137–49

The catalytic role of carbon dioxide in the decomposition of peroxynitrite. Pryor WA, et al. **Free Radic Biol Med** 1997;23(2):331–8

pH heterogeneity in skeletal muscle extracellular fluid. Sjöberg F, et al. **Int J Microcirc Clin Exp** 1996 Jul-Aug; 16(4):180–6

Gastric tonometry: does it work? [editorial] Russell JA.
Intensive Care Med 1997 Jan;23(1):3–6

Comparison of gastric air tonometry with standard saline tonometry. Tzelepis G, et al. **Intensive Care Med** 1996 Nov; 22(11):1239–43

Breath-to-breath relationships between respiratory cycle variables in humans at fixed end-tidal PCO2 and PO2. Busso T, et al. **J Appl Physiol** 1996 Nov;81(5):2287–96

CO2 transport in normovolemic anemia: complete compensation and stability of blood CO2 tensions. Deem S, et al. **J Appl Physiol** 1997 Jul;83(1):240–6

Alveolar Pco2 and Po2 of high-altitude natives living at sea level. León-Velarde F, et al. **J Appl Physiol** 1996 Oct; 81(4):1605–9

Statistical properties of breath-to-breath variations in ventilation at constant PETCO2 and PETO2 in humans. Liang PJ, et al. **J Appl Physiol** 1996 Nov;81(5):2274–86

Esophageal PCO2 as a monitor of perfusion failure during hemorrhagic shock. Sato Y, et al. **J Appl Physiol** 1997 Feb; 82(2):558–62

Association of chest wall motion and tidal volume responses during CO2 rebreathing. Yan S, et al. **J Appl Physiol** 1996 Oct;81(4):1528–34

Screening toxic effects of volatile organic compounds using Drosophila melanogaster. Wasserkort R, et al.
J Appl Toxicol 1997 Mar-Apr;17(2):119–25

Analysis of the cbbXYZ operon in Rhodobacter sphaeroides. Gibson JL, et al. **J Bacteriol** 1997 Feb;179(3):663–9

Regulation of CO2 assimilation in Ralstonia eutropha: premature transcription termination within the cbb operon. Schäferjohann J, et al. **J Bacteriol** 1996 Dec;178(23):6714–9

Assessment of cerebral blood flow and CO2 reactivity after controlled cortical impact by perfusion magnetic resonance imaging using arterial spin-labeling in rats. Forbes ML, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):865–74

Brain tissue response to CO2 in patients with arteriovenous malformation. Hoffman WE, et al.
J Cereb Blood Flow Metab 1996 Nov;16(6):1383–6

Carbon dioxide homeostasis during transperitoneal or extraperitoneal laparoscopic pelvic lymphadenectomy: a real-time intraoperative comparison. Glascock JM, et al.
J Endourol 1996 Aug;10(4):319–23

CO2 release patterns in Drosophila melanogaster: the effect of selection for desiccation resistance. Williams AE, et al.
J Exp Biol 1997 Feb;200 (Pt 3):615–24

Regulation of Staphylococcus aureus capsular polysaccharide type 5: CO2 inhibition in vitro and in vivo. Herbert S, et al. **J Infect Dis** 1997 Aug;176(2):431–8

Evaluation of 13CO2 breath tests for the detection of fructose malabsorption. Hoekstra JH, et al. **J Lab Clin Med** 1996 Mar;127(3):303–9

Partitioning of CO2 production between glucose and lactate in excised sympathetic ganglia, with implications for brain. Larrabee MG. **J Neurochem** 1996 Oct;67(4):1726–34

End-tidal carbon dioxide for monitoring primary closure of gastroschisis. Puffinbarger NK, et al. **J Pediatr Surg** 1996 Feb;31(2):280–2

Interstitial PCO2 and pH, and their role as chemostimulants in the isolated respiratory network of neonatal rats. Voipio J, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):527–42

The effect of low-dose acetazolamide on the ventilatory CO2 response curve in the anaesthetized cat. Wagenaar M, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):227–37

End-tidal carbon dioxide detectors--are they useful in children? Bhende MS. **J Postgrad Med** 1994 Apr-Jun;

40(2):78–82 (51 ref.)
Estimation of CO2 production in enterally fed preterm infants using an isotope dilution stable tracer technique. Kien CL, et al. **JPEN J Parenter Enteral Nutr** 1996 Nov–Dec; 20(6):389–93
Ultrafast rotation and trapping of carbon monoxide dissociated from myoglobin. Lim M, et al. **Nat Struct Biol** 1997 Mar;4(3):209–14
Ketorolac does not depress ventilation in children [letter] Hamunen K, et al. **Paediatr Anaesth** 1996;6(1):79
Comparison of face mask, head hood, and canopy for breath sampling in flow-through indirect calorimetry to measure oxygen consumption and carbon dioxide production of preterm infants < 1500 grams. Bauer K, et al. **Pediatr Res** 1997 Jan;41(1):139–44
Effect of carbon dioxide on cerebral metabolism during hypoxia–ischemia in the immature rat. Vannucci RC, et al. **Pediatr Res** 1997 Jul;42(1):24–9
Thermally-induced changes in the metabolism of the eye of the crayfish Paranephrops planifrons: respiration and substrate utilization at three distinct temperatures. Taylor PR, et al. **Physiol Behav** 1997 Apr;61(4):613–8
Respiratory, acid–base, and metabolic responses of the Christmas Island blue crab, Cardisoma hirtipes (Dana), during simulated environmental conditions. Dela-Cruz J, et al. **Physiol Zool** 1997 Jan–Feb;70(1):100–15
Validation of the doubly labeled water method in bald eagles (Haliaeetus leucocephalus) and a comparison of two equations for the calculation of energy expenditure. Dykstra CR, et al. **Physiol Zool** 1997 Jan–Feb;70(1):19–26
Regulation, unique gene organization, and unusual primary structure of carbon fixation genes from a marine phycoerythrin–containing cyanobacterium. Watson GM, et al. **Plant Mol Biol** 1996 Dec;32(6):1103–15
A low-CO2-inducible gene encoding an alanine: alpha-ketoglutarate aminotransferase in Chlamydomonas reinhardtii. Chen ZY, et al. **Plant Physiol** 1996 Oct; 112(2):677–84
Convergence of the abscisic acid, CO2, and extracellular calcium signal transduction pathways in stomatal guard cells. Webb AA, et al. **Plant Physiol** 1997 Aug; 114(4):1557–60
A global two component signal transduction system that integrates the control of photosynthesis, carbon dioxide assimilation, and nitrogen fixation. Joshi HM, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14515–20
Enhancement of glycolysis and CO2 formation from glycerol by hydroxyl radical scavengers in rat hepatocytes. Gerber E, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct; 94(1):63–71
Oxidation of Tris and formaldehyde to CO2 by neutrophil oxidants. Zaki S, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):79–87
Reverse catabolite repression and the regulation of CO2 fixation in Rhodobacter and related bacteria. Inui M, et al. **Res Microbiol** 1996 Jul–Sep;147(6–7):562–6 (32 ref.)
Effect of haemoglobin oxygenation on Bohr proton release and CO2 excretion in the rainbow trout. Brauner CJ, et al. **Respir Physiol** 1996 Oct;106(1):65–70
Laryngeal CO2 receptors: influence of systemic PCO2 and carbonic anhydrase inhibition. Coates EL, et al. **Respir Physiol** 1996 Apr–May;104(1):53–61
Hemodynamic effects of active compression–decompression after prolonged CPR. Malzer R, et al. **Resuscitation** 1996 Jun;31(3):243–53

PHARMACOKINETICS

Epinephrine increases the selective permeability of epidurally administered [3H]-D-mannitol and [14C]-carboxyl-inulin across the blood–spinal cord barrier. Naidu KA, et al. **J Spinal Cord Med** 1996 Jul;19(3):176–82
Fetal chemoreception: a developing story. Teitel DF. **Reprod Fertil Dev** 1996;8(3):471–82 (121 ref.)

PHARMACOLOGY

CO(2) and indomethacin vasoreactivity in patients with head injury. Dahl B, et al. **Acta Neurochir (Wien)** 1996; 138(3):265–73
Regional heterogeneity and differential vulnerability of cerebral and spinal vascular CO2–responsiveness during graded haemorrhagic hypotension. Komjáti K, et al. **Acta Physiol Hung** 1996;84(3):229–49
Lung distension and carbon dioxide affect pulmonary nitric oxide formation in the anaesthetized rabbit. Strömberg S, et al. **Acta Physiol Scand** 1997 Jan;159(1):59–67
Modifications of carotid body CO2 chemosensitivity in vitro. Kumar P, et al. **Adv Exp Med Biol** 1996;410:203–10
Effects of hypercapnia on steady state, phenylephrine-induced tension in isolated rings of rat pulmonary artery. Sweeney M, et al. **Adv Exp Med Biol** 1996;410:463–9
Effect of carbon dioxide on autonomic cardiovascular responses to systemic hypoxia in conscious rats. Hirakawa H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R747–54
CO2–sensitive olfactory and pulmonary receptor modulation of episodic breathing in bullfrogs. Kinkead R, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R134–44
Intra- and submembrane particle densities during CO2 stimulation of H+ secretion in turtle bladder. Kohn OF, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F491–7
Effects of extracellular pH, PCO2, and HCO3- on intracellular pH in isolated rat taste buds. Lyall V, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C1008–19
Intracellular pH response to hypercapnia in neurons from chemosensitive areas of the medulla. Ritucci NA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R433–41
Effects of inspiratory muscle unloading on the response of respiratory motor output to CO2. Georgopoulos D, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2000–9
Respiratory response to CO2 during pressure-support ventilation in conscious normal humans. Georgopoulos D, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):146–54
The determinants of respiratory rate during mechanical ventilation. Tobert DG, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):485–92
Mechanism of decreased in vitro murine macrophage cytokine release after exposure to carbon dioxide: relevance to laparoscopic surgery. West MA, et al. **Ann Surg** 1997 Aug;226(2):179–90
Carbon dioxide enhancement of peroxynitrite–mediated protein tyrosine nitration. Gow A, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):42–8
Carbon dioxide modulation of hydroxylation and nitration of phenol by peroxynitrite. Lemercier JN, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):160–70
Entamoeba invadens differentiation and Entamoeba histolytica cyst–like formation induced by CO2. Morales–Vallarta M, et al. **Arch Med Res** 1997;28 Spec No:150–1
Effects of pneumoperitoneum with carbon dioxide, argon, or helium on hemodynamic and respiratory function. Junghans T, et al. **Arch Surg** 1997 Mar;132(3):272–8
The control of oxygen affinity in the three human embryonic haemoglobins by respiration linked metabolites. Hofmann OM, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):553–66
Positive charges of the initial C–terminus domain of Cx32 inhibit gap junction gating sensitivity to CO2. Wang XG, et al. **Biophys J** 1997 Aug;73(2):798–806
Effects of CO2 on excitatory transmission apparently caused by changes in intracellular pH in the rat hippocampal slice. Lee J, et al. **Brain Res** 1996 Jan 15;706(2):210–6
NH3- and CO2–induced suppression of taste nerve responses in clawed toads and eels. Yoshii K, et al. **Brain Res** 1997 May 23;757(2):202–8
The ventilatory response to hypoxia below the carbon dioxide threshold. Rapanos T, et al. **Can J Appl Physiol** 1997 Feb;22(1):23–36
Carbon dioxide, an important messenger molecule for small cell lung cancer. Merryman JI, et al. **Chest** 1997 Sep; 112(3):779–84
Effects of intracoronary carbon dioxide on left ventricular function in swine. Lambert CR, et al. **Clin Cardiol** 1996 Jun;19(6):461–5
The effect of carbon dioxide on oxygen–induced retinopathy in the neonatal rat. Holmes JM, et al. **Curr Eye Res** 1997 Jul;16(7):725–32
Effects of the medium HCO3-/CO2 buffer system on differentiation and intermediary metabolism properties of rabbit proximal tubule cells in primary culture. Monteil C, et al. **Epithelial Cell Biol** 1995;4(3):131–9
The effect of a rise in body temperature on the central–chemoreflex ventilatory response to carbon dioxide. Baker JF, et al. **Eur J Appl Physiol** 1996; 72(5–6):537–41
Effect of upper airway cooling and CO2 on diaphragm and geniohyoid muscle activity in the rat. O'Halloran KD, et al. **Eur Respir J** 1996 Nov;9(11):2323–7
Field sampling of the tick Amblyomma variegatum (Acari: Ixodidae) on pastures in Guadeloupe; attraction of CO2 and/or tick pheromones and conditions of use. Barré N, et al. **Exp Appl Acarol** 1997 Feb;21(2):95–108
Effects of carbon dioxide/bicarbonate on induction of DNA single–strand breaks and formation of 8–nitroguanine, 8–oxoguanine and base–propenal mediated by peroxynitrite. Yermilov V, et al. **FEBS Lett** 1996 Dec 9; 399(1–2):67–70
Estimation of chemoreflex loop gain using pseudorandom binary CO2 stimulation. Ghazanshahi SD, et al. **IEEE Trans Biomed Eng** 1997 May;44(5):357–66
Effects of carbon dioxide on the fate of Listeria monocytogenes, of aerobic bacteria and on the development of spoilage in minimally processed fresh endive. Carlin F, et al. **Int J Food Microbiol** 1996 Sep; 32(1–2):159–72
Effect of modified atmosphere packaging on the TVB/TMA–producing microflora of cod fillets. Debevere J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):221–9
Predictive modeling of the growth of Listeria monocytogenes in CO2 environments. Farber JM, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):133–44
Predictive model of the effect of CO2, pH, temperature and NaCl on the growth of Listeria monocytogenes. Fernández PS, et al. **Int J Food Microbiol** 1997 Jun 17;37(1):37–45
Predictive modelling of Escherichia coli O157:H7: inclusion of carbon dioxide as a fourth factor in a pre–existing model. Sutherland JP, et al. **Int J Food Microbiol** 1997 Jul 22; 37(2–3):113–20
Preparation and validation of a growth model for Bacillus cereus: the effects of temperature, pH, sodium chloride and carbon dioxide. Sutherland JP, et al. **Int J Food Microbiol** 1996 Jul;30(3):359–72
Effect of CO2 on intracellular pH and contraction of retinal capillary pericytes. Chen Q, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):643–51
Ventilatory response to exercise in subjects breathing CO2 or HeO2. Babb TG. **J Appl Physiol** 1997 Mar;82(3):746–54
Postnatal maturation of peripheral chemoreceptor ventilatory response to O2 and CO2 in newborn lambs [published errata appear in J Appl Physiol 1996 Nov;81(5):1861 and 1996 Dec;81(6):2766] Canet E, et al. **J Appl Physiol** 1996 Jun;80(6):1928–33
Effects of inspired gas on sleep–related apnea in the rat. Christon J, et al. **J Appl Physiol** 1996 Jun;80(6):2102–7
Effects of inhaled CO2 and added dead space on idiopathic central sleep apnea. Xie A, et al. **J Appl Physiol** 1997 Mar; 82(3):918–26
Trigeminally–mediated alteration of cardiorespiratory rhythms during nasal application of carbon dioxide in the rat. Yavari P, et al. **J Auton Nerv Syst** 1996 Nov 6; 61(2):195–200
Effect of CO2 on Vth nerve inhibition of respiration in isolated rat nervous system. Tarasiuk A, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul–Dec;5(3–4):239–52
Acetazolamide and CO2: acute effects on cerebral and retrobulbar hemodynamics. Harris A, et al. **J Glaucoma** 1996 Feb;5(1):39–45
Alleviation of the temperature–sensitive paralytic phenotype of shibire(ts) mutants in Drosophila by sub–anesthetic concentrations of carbon dioxide. Krishnan KS, et al. **J Neurogenet** 1996 Sep;10(4):221–38
A comparison of the hemodynamic and ventilatory effects of abdominal insufflation with helium and carbon dioxide in young swine. Liem TK, et al. **J Pediatr Surg** 1996 Feb; 31(2):297–300
Inhibitory mechanism of CO2 inhalation on slowly adapting pulmonary stretch receptors in the anesthetized rabbit. Matsumoto S, et al. **J Pharmacol Exp Ther** 1996 Oct; 279(1):402–9
Chemosensitive medullary neurones in the brainstem--spinal cord preparation of the neonatal rat. Kawai A, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):277–92
Effect of CO2 on the metabolic and ventilatory responses to ambient temperature in conscious adult and newborn rats. Saiki C, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):261–9
Effects of halothane, alpha–chloralose, and pCO2 on injury volume and CSF beta–endorphin levels in focal cerebral ischemia. Browning JL, et al. **Mol Chem Neuropathol** 1997 May;31(1):29–42
Comparison of vasodilatory effect of carbon dioxide inhalation and intravenous acetazolamide on brain vasculature using positron emission tomography. Gambhir S, et al. **Neurol Res** 1997 Apr;19(2):139–44
Viable cultured neurons in ambient carbon dioxide and hibernation storage for a month. Brewer GJ, et al. **Neuroreport** 1996 Jun 17;7(9):1509–12
Direct isolation of ultra–late (C–fibre) evoked brain potentials by CO2 laser stimulation of tiny cutaneous surface areas in man. Bragard D, et al. **Neurosci Lett** 1996 May 10; 209(2):81–4
Cell–cell coupling between CO2–excited neurons in the dorsal medulla oblongata. Huang RQ, et al. **Neuroscience** 1997 Sep;80(1):41–57
Carbon dioxide regulates the tonic activity of locus coeruleus neurons by modulating a proton– and polyamine–sensitive inward rectifier potassium current. Pineda J, et al. **Neuroscience** 1997 Apr;77(3):723–43
Glaucoma, capillaries and pericytes. 5. Preliminary evidence that carbon dioxide relaxes pericyte contractile tone. Anderson DR, et al. **Ophthalmologica** 1996;210(5):280–4
Capsaicin and carbon dioxide act by distinct mechanisms on sensory nerve terminals in the cat cornea. Chen X, et al. **Pain** 1997 Mar;70(1):23–9
Right–hemisphere preponderance of responses to painful CO2 stimulation of the human nasal mucosa. Hari R, et al. **Pain** 1997 Aug;72(1–2):145–51
The effect of temperature on the ventilatory response to carbon dioxide in the neonatal rat. Malcolm GA, et al. **Pediatr Res** 1996 Sep;40(3):504–7
Effect of sinus denervation and vagotomy on c–fos expression in the nucleus tractus solitarius after exposure to CO2 Jansen AH, et al. **Pflugers Arch** 1996 Apr;431(6):876–81
The 35% CO2 challenge test in patients with social phobia. Caldirola D, et al. **Psychiatry Res** 1997 Jun 16;71(1):41–8
Effect of carbogen breathing on tumour microregional blood flow in humans. Powell ME, et al. **Radiother Oncol** 1996 Dec;41(3):225–31
Transient perfusion and radiosensitizing effect after nicotinamide, carbogen, and perflubron emulsion administration. Thomas CD, et al. **Radiother Oncol** 1996 Jun;39(3):235–41
Ventilation and respiratory mechanics during exercise in younger subjects breathing CO2 or HeO2. Babb TG. **Respir Physiol** 1997 Jul;109(1):15–28
Dynamic response characteristics of CO2–induced air hunger. Banzett RB. **Respir Physiol** 1996 Aug; 105(1–2):47–55
CO2–induced c–fos expression in the CNS catecholaminergic neurons. Haxhiu MA, et al. **Respir Physiol** 1996 Aug; 105(1–2):35–45
Carbon dioxide respiratory response during positive inspiratory pressure in COPD patients. Heyer L, et al. **Respir Physiol** 1997 Jul;109(1):29–37
CO2 response for the brain stem artery blood flow velocity in man. Hida W, et al. **Respir Physiol** 1996 Apr–May;

104(1):71-5
Ventilatory responses to CO2: constant fraction vs. constant inflow administration. Niizeki K, et al. **Respir Physiol** 1996 Jul;104(2-3):91-106
Modulation by "central" PCO2 of the response to carotid body stimulation in man. Roberts CA, et al. **Respir Physiol** 1995 Dec;102(2-3):149-61
Transitional effects of inspired CO2 on lung mechanics in anesthetized rabbits. Romero PV, et al. **Respir Physiol** 1996 Oct;106(1):57-63
Development of respiratory chemoreflexes to hypoxia and CO2 in unanaesthetized kittens. Watanabe T, et al. **Respir Physiol** 1996 Dec;106(3):247-54
Bilateral increase in CO2 reactivity after unilateral carotid endarterectomy. Visser GH, et al. **Stroke** 1997 May; 28(5):899-905
Alterations in hemodynamics and left ventricular contractility during carbon dioxide pneumoperitoneum. Marathe US, et al. **Surg Endosc** 1996 Oct;10(10):974-8
Effects of CO2 insufflation on bacterial growth in rats with Escherichia coli-induced experimental peritonitis. Sare M, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):38-41
Pneumoperitoneum with carbon dioxide stimulates growth of malignant colonic cells. Jacobi CA, et al. **Surgery** 1997 Jan;121(1):72-8
Cardiopulmonary effects of using carbon dioxide for laparoscopic surgery in dogs. Duke T, et al. **Vet Surg** 1996 Jan-Feb;25(1):77-82
[The effect of CO2 and apnea on cochlear and middle ear blood flow in guinea pigs] Yamamoto J, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jan;100(1):36-44 (Eng. Abstr.) **(Jpn)**
[The effect of CO2 on conduction blocking in nerve fibers by trimecaine and anestezin] Mangusheva NA, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):14-5 (Eng. Abstr.) **(Rus)**
[The effect of CO2 on the blocking of excitation conduction by local anesthetics in feline A-delta and C fibers] Mangusheva NA, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):15-9 (Eng. Abstr.) **(Rus)**
[Carbon dioxide--a universal inhibitor of the generation of active oxygen forms by cells (deciphering one enigma of evolution)] Kogan AKh, et al. **Izv Akad Nauk Ser Biol** 1997 Mar-Apr;(2):204-17 (Eng. Abstr.) **(Rus)**
[Ability of carbon dioxide to inhibit generation of superoxide anion radical in cells and its biomedical role] Kogan AKh, et al. **Vopr Med Khim** 1996 Jul-Sep;42(3):193-202 (Eng. Abstr.) **(Rus)**
[Carbon dioxide inhibits the generation of active forms of oxygen in human and animal cells and the significance of the phenomenon in biology and medicine] Boljevič S, et al. **Vojnosanit Pregl** 1996 Jul-Aug;53(4):261-74 (Eng. Abstr.) **(Scr)**

PHYSIOLOGY

Ventilatory effects of laparoscopic cholecystectomy. Bures E, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):566-73
The role of carotid body CO2 during ventilatory acclimatization to hypoxia in the goat. Dwinell MR, et al. **Adv Exp Med Biol** 1996;410:387-90
CO2 regulation of virulence genes in enteropathogenic Escherichia coli. Haigh RD, et al. **Adv Exp Med Biol** 1997; 412:253-6
Intracellular acidosis potentiates carotid chemoreceptor responses to hypoxia in the absence of CO2-HCO3-. Iturriaga R. **Adv Exp Med Biol** 1996;410:211-6 (20 ref.)
Intrapulmonary shunt during one-lung anaesthesia [letter] Dingley J, et al. **Anaesthesia** 1997 Jun;52(6):613
Influences of morphine on the ventilatory response to isocapnic hypoxia. Berkenbosch A, et al. **Anesthesiology** 1997 Jun;86(6):1342-9
Fuzzy logic control of mechanical ventilation during anaesthesia. Schäublin J, et al. **Br J Anaesth** 1996 Nov; 77(5):636-41
T2*-weighted magnetic resonance imaging of cerebrovascular reactivity in rat reversible focal cerebral ischemia. Ono Y, et al. **Brain Res** 1997 Jan 9;744(2):207-15
The role of CO2/pH chemoreceptors in ventilatory control. Milsom WK. **Braz J Med Biol Res** 1995 Nov-Dec; 28(11-12):1147-60 (113 ref.)
Coordination between palatal and laryngeal muscle activities in response to rebreathing and lung inflation. Koizumi H, et al. **Cleft Palate Craniofac J** 1996 Nov;33(6):459-62
Assessment of the CO2 response by means of non diffusible contrast media and angio-CT in patients with cluster headache. Bartolini A, et al. **Comput Med Imaging Graph** 1996 May-Jun;20(3):171-82
Physiological model of CO2 output during incremental exercise. Yano T. **Ergonomics** 1997 May;40(5):522-30
An evaluation of exercise cardiac output using the CO2 rebreathing extrapolation technique. Rogers GG, et al. **Eur J Appl Physiol** 1997;75(5):431-4
Ventilation/carbon dioxide production ratio in early exercise predicts poor functional capacity in congestive heart failure. Milani RV, et al. **Heart** 1996 Nov;76(5):393-6
Eucapnic hypoxia lowers human cold thermoregulatory response thresholds and accelerates core cooling. Johnston CE, et al. **J Appl Physiol** 1996 Feb;80(2):422-9
Effects of sustained and repetitive isocapnic hypoxia on ventilation and genioglossal and diaphragmatic EMGs. McEvoy RD, et al. **J Appl Physiol** 1996 Aug;81(2):866-75
RET proto-oncogene is important for the development of respiratory CO2 sensitivity. Burton MD, et al. **J Auton Nerv Syst** 1997 Apr 14;63(3):137-43
Nonlinearity identified by neural network models in Pco2 control system in humans. Fukuoka Y, et al. **Med Biol Eng Comput** 1997 Jan;35(1):33-9
The equilibrium CO2 rebreathing method does not affect resting or exercise blood pressure. Turner MJ, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):921-5
Carbon dioxide accumulation in cots [letter] Holborow PL. **N Z Med J** 1997 Jun 13;110(1045):217
How does experimental pulmonary embolism decrease CO2 elimination? Breen PH, et al. **Respir Physiol** 1996 Sep; 105(3):217-24
The effect of hypoxia on the ventilatory response to carbon dioxide in man. Mohan R, et al. **Respir Physiol** 1997 May; 108(2):101-15
Self-control of level of mechanical ventilation to minimize CO2 induced air hunger. Shea SA, et al. **Respir Physiol** 1996 Feb;103(2):113-25
Identification of posttraumatic ischemia and hyperperfusion by determination of the effect of induced arterial hypertension on carbon dioxide reactivity. Steiger HJ, et al. **Stroke** 1996 Nov;27(11):2048-51
Breathing pattern and carbon dioxide retention in severe chronic obstructive pulmonary disease. Gorini M, et al. **Thorax** 1996 Jul;51(7):677-83
[Semi-quantitative diagnosis of the degree of emphysema from CO2 expirograms] Smidt U. **Pneumologie** 1997 Jan; 51(1):55-9 (Eng. Abstr.) **(Ger)**

POISONING

[Tracheotomy in carbon monoxide poisoning] Bobrov VM. **Vestn Otorinolaringol** 1997;(4):48 **(Rus)**

THERAPEUTIC USE

ARCON--current status: summary of a workshop on preclinical and clinical studies. Denekamp J, et al. **Acta Oncol** 1997;36(5):517-25 (0 ref.)
Carbogen and nicotinamide in the treatment of bladder cancer with radical radiotherapy. Hoskin PJ, et al. **Br J Cancer** 1997;76(2):260-3
Conservative management of vaginal intraepithelial neoplasia (VAIN) by laser CO2. Diakomanolis E, et al. **Eur J Gynaecol Oncol** 1996;17(5):389-92
Effect of CO2 pneumoperitoneum on bacteremia in experimental peritonitis. Ozgüç H, et al. **Eur Surg Res** 1996; 28(2):124-9
Prospective comparison of helium versus carbon dioxide pneumoperitoneum. Neuberger TJ, et al. **Gastrointest Endosc** 1996 Jan;43(1):38-41
Carbogen and nicotinamide combined with unconventional radiotherapy in glioblastoma multiforme: a new modality treatment. Fatigante L, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):499-504
Carbon dioxide laser vaporization for genital wart. Chaisilwattana P, et al. **J Med Assoc Thai** 1996 Dec; 79(12):749-54
Efficacy of anterior chamber paracentesis and Carbogen in treating acute nonarteritic central retinal artery occlusion. Atebara NH, et al. **Ophthalmology** 1995 Dec; 102(12):2029-34; discussion 2034-5
Radiosensitizing effect of nicotinamide and carbogen combined in fractionated pions or x-rays in SCCVII tumors. Ohizumi Y, et al. **Radiat Med** 1995 Nov-Dec; 13(6):291-5
Effects of carbogen plus fractionated irradiation on KHT tumor oxygenation. Fenton BM. **Radiother Oncol** 1997 Aug;44(2):183-90
Accelerated radiotherapy with carbogen and nicotinamide (ARCON) in high grade malignant gliomas [letter; comment] Lambin P, et al. **Radiother Oncol** 1997 Jun; 43(3):324. Comment on: Radiother Oncol 1996 Sep;40(3):245-7.
Postoperative drowsiness and emetic sequelae correlate to total amount of carbon dioxide used during laparoscopic cholecystectomy. Koivusalo AM, et al. **Surg Endosc** 1997 Jan;11(1):42-4
[The treatment of gonarthrosis by local vacuum compression in combination with carbon dioxide (a clinical and rheovasothermmal assessment)] Kosoverov EO, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):132-4 **(Rus)**
[Dry air-gas baths as a method of pathogenetic therapy in hypertension at the sanatorium stage] Kliachkin LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov-Dec; (6):3-5 **(Rus)**

TOXICITY

Carcase and meat quality in broilers either killed with a gas mixture or stunned with an electric current under commercial processing conditions. Raj AB, et al. **Br Poult Sci** 1997 May;38(2):169-74
Effect of the method of killing, interval between killing and neck cutting and blood vessels cut on blood loss in broilers. Raj AB, et al. **Br Poult Sci** 1997 May;38(2):190-4
Evaluation of lethality estimates for combustion gases in military scenarios. Smith SM, et al. **Toxicology** 1996 Dec 31;115(1-3):157-65

CARBON DIOXIDE PARTIAL PRESSURE DETERMINATION, TRANSCUTANEOUS see **BLOOD GAS MONITORING, TRANSCUTANEOUS**

CARBON DIOXIDE SNOW see **DRY ICE**

CARBON DISULFIDE

ADVERSE EFFECTS

Carbon disulfide induced polyneuropathy: sural nerve pathology, electrophysiology, and clinical correlation. Chu CC, et al. **Acta Neurol Scand** 1996 Oct;94(4):258-63
Urinary homovanillic acid and vanillylmandelic acid in workers exposed to carbon disulfide. Yang XF, et al. **Am J Ind Med** 1996 Mar;29(3):269-74
Carbon disulphide. IV. Cardiovascular function in workers in the viscose industry. Drexler H, et al. **Int Arch Occup Environ Health** 1996;69(1):27-32
Effects of exposure to carbon disulfide (CS2) on electrocardiographic features of ischemic heart disease among viscose rayon factory workers. Kuo HW, et al. **Int Arch Occup Environ Health** 1997;70(1):61-6
Neurotoxicity of long-term low-level exposure to carbon disulphide: results of questionnaire, clinical neurological examination and neuropsychological testing. Reinhardt F, et al. **Int Arch Occup Environ Health** 1997;69(5):332-8
[The influence of chronic exposure to carbon disulfide on metabolism of catecholamines and serotonin in women] Kuligowski D. **Ann Acad Med Stetin** 1996;42:139-56 (Eng. Abstr.) **(Pol)**
[Neurologic diagnosis and certification in persons chronically exposed to certain organic solvents in light of personal cases] Sińczuk-Walczak H. **Med Pr** 1995;46(6):557-61 (Eng. Abstr.) **(Pol)**

ANALYSIS

Quantitative determination of isothiocyanates, dithiocarbamates, carbon disulfide, and related thiocarbonyl compounds by cyclocondensation with 1,2-benzenedithiol. Zhang Y, et al. **Anal Biochem** 1996 Aug 1;239(2):160-7

CHEMISTRY

The measurement of 2-thiothiazolidine-4-carboxylic acid as an index of the in vivo release of CS2 by dithiocarbamates. Johnson DJ, et al. **Chem Res Toxicol** 1996 Jul-Aug; 9(5):910-6
Reaction of ephedrines with carbon disulphide [letter] King LA. **J Chromatogr B Biomed Appl** 1996 Nov 15;686(2):301

METABOLISM

Reduction of thiocyanate, cyanate, and carbon disulfide by nitrogenase: kinetic characterization and EPR spectroscopic analysis. Rasche ME, et al. **Biochemistry** 1997 Jul 15;36(28):8574-85
Synthesis of 2-thiothiazolidine-4-carboxylic acid and its chromatography in rat and human urine. Cox C, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):85-90

PHARMACOLOGY

Acrylamide and carbon disulfide treatments increase the rate of rat brain tubulin polymerization. Gupta RP, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):223-37
CS2-mediated cross-linking of erythrocyte spectrin and neurofilament protein: dose response and temporal relationship to the formation of axonal swellings. Valentine WM, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):95-105

POISONING

Chronic carbon disulfide encephalopathy. Huang CC, et al. **Eur Neurol** 1996;36(6):364-8
A mortality study of workers with reported chronic occupational carbon disulfide poisoning. Pepłońska B, et al. **Int J Occup Med Environ Health** 1996;9(4):291-9

TOXICITY

Alterations in the neutral proteinase activities of central and peripheral nervous systems of acrylamide-, carbon disulfide-, or 2,5-hexanedione-treated rats. Gupta RP, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):53-66
A benchmark concentration for carbon disulfide: analysis of the NIOSH carbon disulfide exposure database. Price B, et al. **Regul Toxicol Pharmacol** 1996 Oct;24(2 Pt 1):171-6

CARBON ISOTOPES

Experimental approaches to the study of beta-carotene metabolism: potential of a 13C tracer approach to modeling beta-carotene kinetics in humans. Swanson JE, et al. **Adv Food Nutr Res** 1996;40:55-79 (66 ref.)
delta 13C analysis of cholesterol preserved in archaeological bones and teeth. Stott AW, et al. **Anal Chem** 1996 Dec 15;68(24):4402-8
Quantitation of metabolic compartmentation in hyperammonemic brain by natural abundance 13C-NMR detection of 13C-15N coupling patterns and isotopic shifts. Lapidot A, et al. **Eur J Biochem** 1997 Feb 1;243(3):597-604
Breath tests: concepts, applications and limitations. Rating D, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S18-23 (9 ref.)
Carbon isotope effects on the fructose-1,6-bisphosphate aldolase reaction, origin for non-statistical 13C distributions in carbohydrates. Gleixner G, et al.

J Biol Chem 1997 Feb 28;272(9):5382-7
Pulse schemes for the measurement of 3JC'C gamma and 3JNC gamma scalar couplings in 15N,13C uniformly labeled proteins. Konrat R, et al. **J Biomol NMR** 1997 Jun; 9(4):409-22
Improved labeling strategy for 13C relaxation measurements of methyl groups in proteins. Lee AL, et al.
J Biomol NMR 1997 Jun;9(4):437-40
Gas chromatography-atomic emission detection for the measurement of isotopes. Application to bioequivalence studies. Elbast W, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):115-22
Acetyl-L-carnitine flux to lipids in cells estimated using isotopomer spectral analysis. Lligona-Trulla L, et al.
J Lipid Res 1997 Jul;38(7):1454-62
Distribution and disappearance of the radiolabeled carbon derived from L-arginine and taurine in the mouse. Lubec B, et al. **Life Sci** 1997;60(26):2373-81
The 13C isotope and nuclear magnetic resonance: unique tools for the study of brain metabolism. Mason GF, et al. **Metab Brain Dis** 1996 Dec;11(4):283-313 (85 ref.)
Carbon isotope evidence for early life [letter; comment] Eiler JM, et al. **Nature** 1997 Apr 17;386(6626):665. Comment on: Nature 1996 Nov 7;384(6604):55-9.
Improved large scale culture of Methylophilus methylotrophus for 13C/15N labeling and random fractional deuteration of ribonucleotides. Batey RT, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4836-7

CARBON MONOXIDE

Keep the blood red...the right way [editorial; comment] Kharasch ED. **Anesthesiology** 1997 Aug;87(2):202-3. Comment on: Anesthesiology 1997 Aug;87(2):228-34. Comment on: Anesthesiology 1997 Aug;87(2):308-16.
Molecular orbital models of ring expansion mechanisms in the silica-carbon monoxide system. West JK, et al.
J Biomed Mater Res 1997 Aug;36(2):209-15
[Gaseous monoxides as an endogenous modulator of organ function--application of multifunctional digital microfluorography] Suematsu M, et al.
Tanpakushitsu Kakusan Koso 1997 May;42(7 Suppl):1075-9 (10 ref.) **(Jpn)**

ADVERSE EFFECTS

Association between ambient carbon monoxide levels and hospitalizations for congestive heart failure in the elderly in 10 Canadian cities. Burnett RT, et al. **Epidemiology** 1997 Mar;8(2):162-7
Neural circulatory responses to carbon monoxide in healthy humans. Hausberg M, et al. **Hypertension** 1997 May; 29(5):1114-8
Estimation of CO exposure of road construction workers in tunnel. Kamei M, et al. **Ind Health** 1997;35(1):119-25
Methodologic considerations in the interpretation of postmortem carboxyhemoglobin concentrations. Levine B, et al. **Toxicology** 1996 Dec 31;115(1-3):129-34
Influence of CO2 pneumoperitoneum on systemic and peritoneal cell-mediated immunity. Evrard S, et al.
World J Surg 1997 May;21(4):353-6; discussion 357
[Parkinson syndrome after CO poisoning. Unexpected late manifestation and favorable prognosis] Garrels L, et al. **Nervenarzt** 1996 Aug;67(8):682-5 (Eng. Abstr.) **(Ger)**

ANALYSIS

Carbon monoxide hazards in rural Alaskan homes. Howell J, et al. **Alaska Med** 1997 Jan-Mar;39(1):8-11
Carbon monoxide within circle systems. Harrison N, et al. **Anaesthesia** 1996 Nov;51(11):1037-40
Effect of menthol cigarettes on biochemical markers of smoke exposure among black and white smokers. Clark PI, et al. **Chest** 1996 Nov;110(5):1194-8
Toxic gas exposures in ice arenas. Pribyl CR, et al.
Clin J Sport Med 1996 Oct;6(4):232-6
Effects of grades and other loads on on-road emissions of hydrocarbons and carbon monoxide. Cicero-Fernández P, et al. **J Air Waste Manag Assoc** 1997 Aug;47(8):898-904
An analysis of Michigan and California CO remote sensing measurements. Stephens RD, et al.
J Air Waste Manag Assoc 1997 May;47(5):601-7
The response of anesthetic agent monitors to trifluoromethane warns of the presence of carbon monoxide from anesthetic breakdown. Woehlck HJ, et al.
J Clin Monit 1997 May;13(3):149-55
Exposure of commuters to carbon monoxide in Mexico City II. Comparison of in-vehicle and fixed-site concentrations. Fernandez-Bremauntz AA, et al.
J Expo Anal Environ Epidemiol 1995 Oct-Dec;5(4):497-510
Long-term trends in United States highway emissions, ambient concentrations, and in-vehicle exposure to carbon monoxide in traffic. Flachsbart PG.
J Expo Anal Environ Epidemiol 1995 Oct-Dec;5(4):473-95 (51 ref.)
Smoking in pregnancy, exhaled carbon monoxide, and birth weight. Secker-Walker RH, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):648-53
Simultaneous measurement of total hemoglobin and its derivatives in blood using CO-oximeters: analytical principles; their application in selecting analytical wavelengths and reference methods; a comparison of the results of the choices made. Brunelle JA, et al.
Scand J Clin Lab Invest Suppl 1996;224:47-69 (34 ref.)
Physical characterization of incense aerosols. Mannix RC, et al. **Sci Total Environ** 1996 Dec 20;193(2):149-58
[Carbon monoxide exposure in automobile garages: evaluation of mechanics] Gourdeau P, et al.
Can J Public Health 1995 Nov-Dec;86(6):414-7 (Eng. Abstr.) **(Fre)**
[Measuring pulmonary CO2 elimination--studies with the lung model using various mixed gases] Gehring H, et al. **Biomed Tech (Berl)** 1996 Nov;41(11):324-30 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

Endogenous carbon monoxide suppression stimulates bile acid-dependent biliary transport in perfused rat liver. Sano T, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1268-75

BLOOD

Interference of methylene blue with CO-Oximetry of hemoglobin derivatives. Gourlain H, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):1078-80
Carbon monoxide levels in cell saver salvaged blood exposed to electrocautery during lumbar spine surgery. Slucky AV, et al. **J Spinal Disord** 1996 Oct;9(5):404-8
[The measurement of pulmonary diffusing capacity for carbon monoxide] Ishibashi M, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:27-30 (6 ref.) **(Jpn)**

CHEMICAL SYNTHESIS

Rehydration of desiccated Baralyme prevents carbon monoxide formation from desflurane in an anesthesia machine. Baxter PJ, et al. **Anesthesiology** 1997 May; 86(5):1061-5

CHEMISTRY

Role of the polarity of the heme environment for the CO stretch modes in cytochrome P-450cam-CO. Jung C, et al. **Biochemistry** 1996 Nov 26;35(47):15088-94
Comparative Fourier transform infrared studies of the secondary structure and the CO heme ligand environment in cytochrome P-450cam and cytochrome P-420cam. Mouro C, et al. **Biochemistry** 1997 Jul 1;36(26):8125-34
Initial trajectory of carbon monoxide after photodissociation from myoglobin at cryogenic temperatures. Teng TY, et al. **Biochemistry** 1997 Oct 7;36(40):12087-100
Heme-CO binding to tryptophan-containing calmodulin mutants. Leclerc L'Hostis E, et al.
Biochim Biophys Acta 1996 Oct 11;1313(3):209-16
Functional heterogeneity of the alpha and beta subunits in the association reaction between hemoglobin and carbon monoxide. Perrella M, et al. **Biophys Chem** 1996 Oct 30; 61(2-3):169-76
The role of entropy in the discrimination between CO and O2 in myoglobin. Filiaci M, et al. **Eur Biophys J** 1997; 26(3):209-14
Interactions of 77Se and 13CO with nickel in the active site of active F420-nonreducing hydrogenase from Methanococcus voltae. Sorgenfrei O, et al.
J Biol Chem 1996 Sep 27;271(39):23799-806
Biological activation of hydrogen [letter] Happe RP, et al. **Nature** 1997 Jan 9;385(6612):126
Activated acetic acid by carbon fixation on (Fe,Ni)S under primordial conditions [see comments] Huber C, et al.
Science 1997 Apr 11;276(5310):245-7. Comment in: Science 1997 Apr 11;276(5310):222.
[Degradation of halothane, enflurane, and isoflurane by dry soda lime to give carbon monoxide] Strauss JM, et al.
Anaesthesist 1996 Sep;45(9):798-801 (Eng. Abstr.) **(Ger)**
[Production of carbon monoxide in soda lime (letter) (see comments)] Ponz L. **Rev Esp Anestesiol Reanim** 1996 Jan; 43(1):42. Comment in: Rev Esp Anestesiol Reanim 1996 Aug;Sep;43(7):261-2. **(Spa)**
[Quantification of dehydration of soda lime in clinical circumstances] Soro-Domingo M, et al.
Rev Esp Anestesiol Reanim 1997 May;44(5):186-90 (Eng. Abstr.) **(Spa)**

METABOLISM

Carbon monoxide and carotid body chemoreception. Overholt JL, et al. **Adv Exp Med Biol** 1996;410:341-4
Carbon monoxide excretion, not oxygen secretion? Torrance RW. **Adv Exp Med Biol** 1996;410:335-9 (11 ref.)
Cocaine effects on digital blood flow and diffusing capacity for carbon monoxide among chronic cocaine users. Sullivan JT, et al. **Am J Med** 1997 Mar;102(3):232-8
cAMP induces heme oxygenase-1 gene expression and carbon monoxide production in vascular smooth muscle. Durante W, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H317-23
Adjustment of DLCO for hemoglobin concentration. Marrades RM, et al. **Am J Respir Crit Care Med** 1997 Jan; 155(1):236-41
A novel heme protein that acts as a carbon monoxide-dependent transcriptional activator in Rhodospirillum rubrum. Aono S, et al.
Biochem Biophys Res Commun 1996 Nov 21;228(3):752-6
New physiological importance of two classic residual products: carbon monoxide and bilirubin. Marilena G.
Biochem Mol Med 1997 Aug;61(2):136-42 (43 ref.)
Differential interaction of erythromycin with cytochromes P450 3A1/2 in the endoplasmic reticulum: a CO flash photolysis study. Koley AP, et al. **Biochemistry** 1997 Mar 18;36(11):3237-41
Evidence that carbon monoxide is an obligatory intermediate in anaerobic acetyl-CoA synthesis. Menon S, et al.
Biochemistry 1996 Sep 17;35(37):12119-25
Mechanism of carbon monoxide oxidation by the carbon monoxide dehydrogenase/acetyl-CoA synthase from Clostridium thermoaceticum: kinetic characterization of the intermediates. Seravalli J, et al. **Biochemistry** 1997 Sep 16; 36(37):11241-51
Dynamics of carbon monoxide binding with cytochromes P-450. Tétreau C, et al. **Biochemistry** 1997 Aug 19; 36(33):10262-75
Cytochrome P450 conformation and substrate interactions as probed by CO binding kinetics [published erratum appears in Biochimie 1997;79(1):20] Koley AP, et al.
Biochimie 1996;78(8-9):706-13
Carbon monoxide binding to cytochrome P450BM-3: evidence for a substrate-dependent conformational change. McLean MA, et al. **Biochimie** 1996;78(8-9):700-5
Photoperturbation of the heme a3-CuB binuclear center of cytochrome c oxidase CO complex observed by Fourier transform infrared spectroscopy. Park S, et al.
Biophys J 1996 Aug;71(2):1036-47
Carbon monoxide formation in the ductus arteriosus in the lamb: implications for the regulation of muscle tone. Coceani F, et al. **Br J Pharmacol** 1997 Feb;120(4):599-608
A sensitive microassay reveals marked regional differences in the capacity of rat brain to generate carbon monoxide. Laitinen JT, et al. **Brain Res** 1995 Oct 2;694(1-2):246-52
CO interact with intracellular [H+] with and without CO2-HCO3- in the cat carotid chemosensory discharge. Osanai S, et al. **Brain Res** 1997 Aug 1;764(1-2):221-4
Zinc protoporphyrin IX, an inhibitor of the enzyme that produces carbon monoxide, blocks spinal nociceptive transmission evoked by formalin injection in the rat. Yamamoto T, et al. **Brain Res** 1995 Dec 18;704(2):256-62
Carbon monoxide formation in the guinea pig hippocampus: ontogeny and effect of in vitro ethanol exposure. Cook MN, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1-2):283-6
Evidence that carbon monoxide stimulates prostaglandin endoperoxide synthase activity in rat hypothalamic explants and in primary cultures of rat hypothalamic astrocytes. Mancuso C, et al. **Brain Res Mol Brain Res** 1997 May; 45(2):294-300
Gaseous monoxides: a new class of microvascular regulator in the liver. Suematsu M, et al. **Cardiovasc Res** 1996 Oct; 32(4):679-86 (60 ref.)
The single-breath diffusing capacity for carbon monoxide in obstructive sleep apnea and obesity. Collard P, et al. **Chest** 1996 Nov;110(5):1189-93
Carbon monoxide and general anesthesia [letter] [see comments] Hampson NB, et al. **Chest** 1996 Nov;110(5):1375 . Comment in: Chest 1996 Feb;109(2):592.
Nitric oxide induces heme oxygenase-1 gene expression and carbon monoxide production in vascular smooth muscle cells. Durante W, et al. **Circ Res** 1997 Apr;80(4):557-64
Transfer of carbon monoxide during an inspiratory pause procedure in mechanically ventilated pigs. te Nijenhuis FC, et al. **Clin Physiol** 1996 Nov;16(6):621-32
A carbon monoxide irreducible form of cytochrome c oxidase and other unusual properties of the "monomeric" shark enzyme. Holm DE, et al.
Comp Biochem Physiol B Biochem Mol Biol 1996 Aug; 114(4):345-52
Sensitizing soluble guanylyl cyclase to become a highly CO-sensitive enzyme. Friebe A, et al. **EMBO J** 1996 Dec 16;15(24):6863-8
Toxic waste or hormone? Carbon monoxide as a regulator of sinusoidal tone. Weisiger RA, et al. **Hepatology** 1996 Nov;24(5):1319-21
Comparison of single breath and steady state methods for measurement of lung transfer factor for CO in normal subjects and smokers. Mahajan KK, et al.
Indian J Physiol Pharmacol 1996 Jul;40(3):267-70
Rate of uptake of CO by hemoglobin in pig erythrocytes as a function of PO2. Te Nijenhuis FC, et al.
J Appl Physiol 1996 Oct;81(4):1544-9
A flash-photolysis study of the reactions of a caa3-type cytochrome oxidase with dioxygen and carbon monoxide. Hirota S, et al. **J Bioenerg Biomembr** 1996 Dec; 28(6):495-501
Proton-linked subunit kinetic heterogeneity for carbon monoxide binding to hemoglobin from Chelidonichthys kumu. Coletta M, et al. **J Biol Chem** 1996 Nov 22; 271(47):29859-64
Expression, purification, and properties of recombinant barley (Hordeum sp.) hemoglobin. Optical spectra and reactions with gaseous ligands. Duff SM, et al.
J Biol Chem 1997 Jul 4;272(27):16746-52
Kinetics of CO ligation with nitric-oxide synthase by flash photolysis and stopped-flow spectrophotometry. Scheele JS, et al. **J Biol Chem** 1997 May 9;272(19):12523-8
The binding of carbon monoxide and nitric oxide to leghaemoglobin in comparison with other haemoglobins. Harutyunyan EH, et al. **J Mol Biol** 1996 Nov 22; 264(1):152-61
Gaseous second messengers in vertebrate olfaction. Broillet MC, et al. **J Neurobiol** 1996 May;30(1):49-57 (65 ref.)
Oscillations and gaseous oxides in invertebrate olfaction.

Gelperin A, et al. **J Neurobiol** 1996 May;30(1):110–22 (119 ref.)
The regulation of heme turnover and carbon monoxide biosynthesis in cultured primary rat olfactory receptor neurons. Ingi T, et al. **J Neurosci** 1996 Sep 15;16(18):5621–8
Identification of a long-lasting form of odor adaptation that depends on the carbon Monoxide/cGMP second-messenger system. Zufall F, et al. **J Neurosci** 1997 Apr 15;17(8):2703–12
Heme oxygenase-dependent carbon monoxide production is a hepatic adaptive response to sepsis. Downard PJ, et al. **J Surg Res** 1997 Jul 15;71(1):7–12
Quantitative measurement of human tissue hepatic blood volume by C15O inhalation with positron-emission tomography. Taniguchi H, et al. **Liver** 1996 Aug; 16(4):258–62
Carbon monoxide and nitric oxide homology: differential modulation of heme oxygenases in brain and detection of protein and activity. Maines M. **Methods Enzymol** 1996; 268:473–88
Soil microorganisms as controllers of atmospheric trace gases (H2, CO, CH4, OCS, N2O, and NO). Conrad R. **Microbiol Rev** 1996 Dec;60(4):609–40 (602 ref.)
Haldane and indifferent gases: O2 secretion or CO excretion? Torrance RW. **Respir Physiol** 1996 Nov;106(2):109–13
Fast-action flicks draw chemists' rave reviews [news] Service R. **Science** 1997 Jun 27;276(5321):1986–7
End-expiratory carbon monoxide levels as an estimate of passive smoking exposure aboard a nuclear-powered submarine [see comments] Seufert KT, et al. **South Med J** 1996 Dec;89(12):1181–3. Comment in: South Med J 1997 Aug;90(8):863.
Pitfalls using metalloporphyrins in carbon monoxide research. Grundemar L, et al. **Trends Pharmacol Sci** 1997 Jun;18(6):193–5 (35 ref.)
[Carbon monoxide can be generated from halogenated anesthetics in connection with dry soda line] Jørgensen BC. **Ugeskr Laeger** 1997 Jan 20;159(4):445–7 **(Dan)**
[Organ specific expression pattern of a carbon monoxide generating stress protein (hemoxygenase-1/heatshock protein 32) following hemorrhagic shock] Bauer M, et al. **Anaesthesist** 1997 Apr;46(4):339–42 (Eng. Abstr.) **(Ger)**
[Nitric oxide and carbon monoxide--a new generation of neuronal messengers] Gazit V, et al. **Harefuah** 1996 Jun 16;130(12):854–8 (15 ref.) **(Heb)**
[Carbon monoxide: an essential modulator of blood vessel tone] Netzer D, et al. **Harefuah** 1997 Apr 1;132(7):494–9 (20 ref.) **(Heb)**
[Nitric oxide and carbon monoxide--a new class of signal molecules] Markov KhM. **Usp Fiziol Nauk** 1996 Oct-Dec; 27(4):30–43 (107 ref.) (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Effects of mode of inhalation of carbon monoxide and of normobaric oxygen administration on carbon monoxide elimination from the blood. Levasseur L, et al. **Hum Exp Toxicol** 1996 Nov;15(11):898–903
Elimination of CO from the body: an experimental study on the rabbit. Wazawa H, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):258–62
Effect of long-term ethanol pretreatment on the metabolism of dichloromethane to carbon monoxide in rats. Wirkner K, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):83–8
[Measurement of carbon monoxide transfer factor using the apnea method] Roche N. **Rev Mal Respir** 1996 Dec; 13(6):607–8 **(Fre)**

PHARMACOLOGY

Effect of hypoxia and carbon monoxide on muscle oxygenation during exercise. Maehara K, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):229–35
Carbon monoxide-induced relaxation of the ductus arteriosus in the lamb: evidence against the prime role of guanylyl cyclase. Coceani F, et al. **Br J Pharmacol** 1996 Aug; 118(7):1689–96
Carbon monoxide-induced vasorelaxation and the underlying mechanisms. Wang R, et al. **Br J Pharmacol** 1997 Jul; 121(5):927–34
Carbon monoxide-induced relaxation and distribution of haem oxygenase isoenzymes in the pig urethra and lower oesophagogastric junction. Werkström V, et al. **Br J Pharmacol** 1997 Jan;120(2):312–8
Regulation of cyclic GMP levels in the rat frontal cortex in vivo: effects of exogenous carbon monoxide and phosphodiesterase inhibition. Laitinen KS, et al. **Brain Res** 1997 May 2;755(2):272–8
Oxytocin release is inhibited by the generation of carbon monoxide from the rat hypothalamus--further evidence for carbon monoxide as a neuromodulator. Kostoglou-Athanassiou I, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):301–6
Nitric oxide/carbon monoxide. A molecular switch for myocardial preservation during ischemia. Maulik N, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II398–406
Role of carbon monoxide in heme-induced vasodilation. Kozma F, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):R1–2
Low-dose carbon monoxide does not reduce vasoconstriction in isolated rat lungs. Cantrell JM, et al. **Exp Lung Res** 1996 Jan-Feb;22(1):21–32
Predominant role of peripheral chemoreceptors in the termination of apnea in maturing newborn lambs. Delacourt C, et al. **J Appl Physiol** 1996 Mar;80(3):892–8
Effects of carbon monoxide on the brain may be mediated by nitric oxide. Meilin S, et al. **J Appl Physiol** 1996 Sep; 81(3):1078–83
Characterization of the region encoding the CO-induced hydrogenase of Rhodospirillum rubrum. Fox JD, et al. **J Bacteriol** 1996 Nov;178(21):6200–8
The chemical modification of KCa channels by carbon monoxide in vascular smooth muscle cells. Wang R, et al. **J Biol Chem** 1997 Mar 28;272(13):8222–6
Regulation of cyclic nucleotide-gated channels and membrane excitability in olfactory receptor cells by carbon monoxide. Leinders-Zufall T, et al. **J Neurophysiol** 1995 Oct;74(4):1498–508
Nitric oxide but not carbon monoxide is involved in spatial learning of mice. Toyoda M, et al. **Jpn J Pharmacol** 1996 Jul;71(3):205–11
Localization of nitric oxide synthase and haemoxygenase, and functional effects of nitric oxide and carbon monoxide in the pig and human intravesical ureter. Iselin CE, et al. **Neurourol Urodyn** 1997;16(3):209–27
In vivo carbon monoxide exposure and hypoxic hypoxia stimulate immediate early gene expression. Gess B, et al. **Pflugers Arch** 1997 Sep;434(5):568–74

POISONING see CARBON MONOXIDE POISONING

TOXICITY

Presence of antibodies to heat stress proteins and its possible significance in workers exposed to high temperature and carbon monoxide. Wu TC, et al. **Biomed Environ Sci** 1996 Dec;9(4):370–9
Carbon monoxide and the embryo. Robkin MA. **Int J Dev Biol** 1997 Apr;41(2):283–9 (36 ref.)
Prenatal exposure to carbon monoxide and vascular responsiveness of rat resistance vessels. Montagnani M, et al. **Life Sci** 1996;59(18):1553–61
The direct effect of carbon monoxide on KCa channels in vascular smooth muscle cells. Wang R, et al. **Pflugers Arch** 1997 Jul;434(3):285–91
The effect of carbon monoxide on oxygen metabolism in the brains of awake sheep. Langston P, et al. **Toxicology** 1996 Dec 18;114(3):223–32
Evaluation of lethality estimates for combustion gases in military scenarios. Smith SM, et al. **Toxicology** 1996 Dec 31;115(1–3):157–65
[Toxicity of carbon monoxide on the central nervous system: special reference to amnesia] Nabeshima T. **J Toxicol Sci** 1996 May;21(2):App 59–74 (75 ref.) **(Jpn)**

CARBON MONOXIDE POISONING

Carbon monoxide hazards in rural Alaskan homes. Howell J, et al. **Alaska Med** 1997 Jan-Mar;39(1):8–11
Changes in the DNA profile caused by toxic substances? [letter; comment] Schneider PM. **Forensic Sci Int** 1997 Apr 18;86(1–2):145–50. Comment on: Forensic Sci Int 1996 Apr 23;78(3):169–78.
Sumatriptan relieves migrainelike headaches associated with carbon monoxide exposure. Lipton RB, et al. **Headache** 1997 Jun;37(6):392–5 (39 ref.)
Catalytic converter and suicide risk revisited. Roberts KM, et al. **Med Sci Law** 1997 Apr;37(2):178
Extended donor criteria: use of cardiac allografts after carbon monoxide poisoning. Koerner MM, et al. **Transplantation** 1997 May 15;63(9):1358–60
A model for acute carbon monoxide poisoning in conscious rats. Jiang J, et al. **Undersea Hyperb Med** 1996 Jun; 23(2):99–106
[Through the eye of the needle; fragments from a diary in carbon monoxide poisoning] Drent M. **Ned Tijdschr Geneeskd** 1996 Dec 21;140(51):2577–80 **(Dut)**
[Carbon monoxide poisoning] Wattel F, et al. **Presse Med** 1996 Oct 19;25(31):1425–9 (23 ref.) (Eng. Abstr.) **(Fre)**
[Chronic CO poisoning. Use of generator gas during the second world war and recent research] Tvedt B, et al. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2454–7 (38 ref.) (Eng. Abstr.) **(Nor)**
[Hyperbaric oxygenation in inhalation poisoning with substances with varying mechanisms of action (styrene, toluene and carbon monoxide] Fertikova TE, et al. **Patol Fiziol Eksp Ter** 1997 Jul-Sep;(3):20–3 (Eng. Abstr.) **(Rus)**
[Carbon monoxide poisoning (editorial)] Rubio Barbón S, et al. **Med Clin (Barc)** 1997 May 24;108(20):776–8 **(Spa)**

COMPLICATIONS

Encephalopathy and peripheral neuropathy following carbon monoxide poisoning from a propane-fueled vehicle. Kelafant GA. **Am J Ind Med** 1996 Dec;30(6):765–8
Charge association in a neonate exposed in utero to carbon monoxide. Courtens W, et al. **Birth Defects Orig Artic Ser** 1996;30(1):407–12
Acute renal failure, compartment syndrome, and systemic capillary leak syndrome complicating carbon monoxide poisoning. Abdul-Ghaffar NU, et al. **J Toxicol Clin Toxicol** 1996;34(6):713–9
Carbon monoxide poisoning as an epigenetic factor for Leber's hereditary optic neuropathy. Hwang JM, et al. **Korean J Ophthalmol** 1996 Dec;10(2):122–3
MRI appearances consistent with haemorrhagic infarction as an early manifestation of carbon monoxide poisoning. Bianco F, et al. **Neuroradiology** 1996 May;38 Suppl 1:S70–2
MRI of cerebellar white matter damage due to carbon monoxide poisoning: case report. Mascalchi M, et al. **Neuroradiology** 1996 May;38 Suppl 1:S73–4
Use of liver allografts from carbon monoxide poisoned cadaveric donors. Verran D, et al. **Transplantation** 1996 Nov 27;62(10):1514–5
[Cutaneous necrosis of the extremities during carbon monoxide poisoning] del Giudice P, et al. **Ann Dermatol Venereol** 1995;122(11–12):780–2 (Eng. Abstr.) **(Fre)**
[What is your diagnosis? Carbon monoxide poisoning] Brugières P. **J Neuroradiol** 1996 Dec;23(4):210, 251 **(Fre)**
[Dementia syndrome of recent appearance...] Zenone T, et al. **Rev Med Interne** 1997;18 Suppl 3:308s–310s **(Fre)**
[Parkinson syndrome after CO poisoning. Unexpected late manifestation and favorable prognosis] Garrels L, et al. **Nervenarzt** 1996 Aug;67(8):682–5 (Eng. Abstr.) **(Ger)**
[Hypoxic brain damage after carbon monoxide poisoning. Visual agnosia, reduced initiative and memory and delayed sequelae] Tvedt B, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):3005–8 (Eng. Abstr.) **(Nor)**
[Analysis of neuropsychological disorders in toxic brain damage resulting from carbon monoxide poisoning] Kazalska T, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:115–21 (Eng. Abstr.) **(Pol)**

DIAGNOSIS

The skeletonized body: suicidal inhalation of motorbike exhaust. Busuttil A, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):50–5
Carboxyhemoglobin after blood storage [letter] Díaz JE, et al. **Ann Emerg Med** 1997 Aug;30(2):239–40
Pitfalls in diagnosis and management of carbon monoxide poisoning. Roy B, et al. **J Accid Emerg Med** 1996 Jan; 13(1):62–3
[Unrecognized carbon monoxide poisoning--the importance of subsequent studies in death with undetermined cause] Nowak R. **Versicherungsmedizin** 1996 Feb 1;48(1):6–8 (Eng. Abstr.) **(Ger)**
[MR imaging of carbon monoxide intoxication: evaluation of 13 cases to discuss the relation between MR findings and clinical course] Matsushita H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):948–54 (Eng. Abstr.) **(Jpn)**
[Carbon monoxide poisoning (letter; comment)] Dueñas Laita A, et al. **Aten Primaria** 1997 Jun 15;20(1):60–2. Comment on: Aten Primaria 1997 Feb 15;19(2):89–91. **(Spa)**

DRUG THERAPY

U-50488H, a selective kappa-opioid receptor agonist, improves carbon monoxide-induced delayed amnesia in mice. Hiramatsu M, et al. **Eur J Pharmacol** 1996 Nov 14; 315(2):119–25

EPIDEMIOLOGY

Epidemic carbon monoxide poisoning following a winter storm [see comments] Houck PM, et al. **J Emerg Med** 1997 Jul-Aug;15(4):469–73. Comment in: J Emerg Med 1997 Jul-Aug;15(4):531–2.
Carbon monoxide poisoning during ice storms: a tale of two cities [see comments] Wrenn K, et al. **J Emerg Med** 1997 Jul-Aug;15(4):465–7. Comment in: J Emerg Med 1997 Jul-Aug;15(4):531–2.
The risk of carbon monoxide poisoning after prolonged laparoscopic surgery [letter; comment] Ott DE. **Obstet Gynecol** 1997 Feb;89(2):320. Comment on: Obstet Gynecol 1996 Nov;88(5):771–4.
[Accidents caused by gas equipment and carbon monoxide poisoning in dwellings of the Lombardy region in the period October 1955–April 1996] Carreri V, et al. **Ann Ig** 1996 Sep-Oct;8(5):579–91 (Eng. Abstr.) **(Ita)**
[Carboxyhemoglobin levels and risk factors of carbon monoxide poisoning in children; (see comments)] Vázquez P, et al. **Med Clin (Barc)** 1997 Jan 11;108(1):1–3 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Jan 11;108(1):16–8. **(Spa)**

ETIOLOGY

Carbon monoxide poisoning from gasoline-powered engines: risk perception among Midwest flood victims [letter] Greife AL, et al. **Am J Public Health** 1997 Mar;87(3):466–7
Epidemic of accidental carbon monoxide poisonings caused by snow-obstructed exhaust systems. Rao R, et al. **Ann Emerg Med** 1997 Feb;29(2):290–2
Effects of mode of inhalation of carbon monoxide and of normobaric oxygen administration on carbon monoxide elimination from the blood. Levasseur L, et al. **Hum Exp Toxicol** 1996 Nov;15(11):898–903
From the Centers for Disease Control and Prevention. Deaths from motor-vehicle-related unintentional carbon monoxide poisoning--Colorado, 1996, New Mexico, 1980–1995, and United States, 1979–1992. **JAMA** 1996 Dec 25;276(24):1942–3
Deaths from motor-vehicle-related unintentional carbon monoxide poisoning--Colorado, 1996, New Mexico,

1980–1995, and United States, 1979–1992.
MMWR Morb Mortal Wkly Rep 1996 Nov 29; 45(47):1029–32

The risk of carbon monoxide poisoning after prolonged laparoscopic surgery [see comments] Nezhat C, et al.
Obstet Gynecol 1996 Nov;88(5):771–4. Comment in: Obstet Gynecol 1997 Feb;89(2):320.

[Chronic carbon monoxide poisoning. From smoking to accidental poisoning (letter)] Lagrue G, et al.
Presse Med 1997 Feb 1;26(2):77 **(Fre)**

[Children and smoke: an unequal battle (editorial; comment)] Nogué Xarau S. **Med Clin (Barc)** 1997 Jan 11;108(1):16–8 . Comment on: Med Clin (Barc) 1997 Jan 11;108(1):1–3. **(Spa)**

METABOLISM

Hydroxyl radical production in the brain after CO hypoxia in rats. Piantadosi CA, et al. **Free Radic Biol Med** 1995 Mar;18(3):603–9

Production of hydroxyl radical in the hippocampus after CO hypoxia or hypoxic hypoxia in the rat. Piantadosi CA, et al. **Free Radic Biol Med** 1997;22(4):725–32

Ventilatory and metabolic responses to ambient hypoxia or hypercapnia in rats exposed to CO hypoxia. Gautier H, et al. **J Appl Physiol** 1997 Jul;83(1):253–61

Release of glutathione from erythrocytes and other markers of oxidative stress in carbon monoxide poisoning. Thom SR, et al. **J Appl Physiol** 1997 May;82(5):1424–32

NGFI-B, c-fos, and c-jun mRNA expression in mouse brain after acute carbon monoxide intoxication. Tang YP, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):771–80

MORTALITY

Simultaneous death of twins. An environmental hazard or SIDS? Ramos V, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):75–8 (22 ref.)

Unusual presentation of death due to carbon monoxide poisoning. A report of two cases. Ruszkiewicz A, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):181–4

PATHOLOGY

Apoptosis and delayed neuronal damage after carbon monoxide poisoning in the rat. Piantadosi CA, et al. **Exp Neurol** 1997 Sep;147(1):103–14

The utility of volatile hydrocarbon analysis in cases of carbon monoxide poisoning. Morinaga M, et al.
Int J Legal Med 1996;109(2):75–9

[Dual accidental carbon monoxide poisoning] Theuerkauf I, et al. **Arch Kriminol** 1997 Mar–Apr;199(3–4):109–14 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Disturbance of central vision after carbon monoxide poisoning. Fine RD, et al. **Aust N Z J Ophthalmol** 1996 May;24(2):137–41

Ventilatory and metabolic responses to ambient hypoxia or hypercapnia in rats exposed to CO hypoxia. Gautier H, et al. **J Appl Physiol** 1997 Jul;83(1):253–61

PREVENTION & CONTROL

Reduction in the incidence of carbon monoxide exposures in humans undergoing general anesthesia [see comments] Woehlck HJ, et al. **Anesthesiology** 1997 Aug;87(2):228–34 . Comment in: Anesthesiology 1997 Aug;87(2):202–3.

NMDA receptor-blocker ketamine protects during acute carbon monoxide poisoning, while calcium channel-blocker verapamil does not. Penney DG, et al. **J Appl Toxicol** 1996 Jul–Aug;16(4):297–304

Winter storms and great imitators [editorial; comment] Sternbach G, et al. **J Emerg Med** 1997 Jul–Aug;15(4):531–2 . Comment on: J Emerg Med 1997 Jul–Aug;15(4):465–7. Comment on: J Emerg Med 1997 Jul–Aug;15(4):469–73.

Car exhaust suicide [editorial] Rosenman SJ. **Med J Aust** 1997 Mar 17;166(6):288–9

Effects of dynorphin A (1–13) on carbon monoxide–induced delayed amnesia in mice. Hiramatsu M, et al.
Pharmacol Biochem Behav 1997 Jan;56(1):73–9

Cochlear protection from carbon monoxide exposure by free radical blockers in the guinea pig. Fechter LD, et al.
Toxicol Appl Pharmacol 1997 Jan;142(1):47–55

[Carbon monoxide exposure in automobile garages: evaluation of mechanics] Gourdeau P, et al.
Can J Public Health 1995 Nov–Dec;86(6):414–7 (Eng. Abstr.) **(Fre)**

[Carbon monoxide poisoning: a pending subject for physicians and users (see comments)] Alins J, et al.
Aten Primaria 1997 Feb 15;19(2):89–91 (Eng. Abstr.). Comment in: Aten Primaria 1997 Jun 15;20(1):60–2. **(Spa)**

[Production of carbon monoxide in soda lime (letter) (see comments)] Ponz L. **Rev Esp Anestesiol Reanim** 1996 Jan; 43(1):42. Comment in: Rev Esp Anestesiol Reanim 1996 Aug;Sep;43(7):261–2. **(Spa)**

PSYCHOLOGY

Effects of dynorphin A (1–13) on carbon monoxide–induced delayed amnesia in mice. Hiramatsu M, et al.
Pharmacol Biochem Behav 1997 Jan;56(1):73–9

RADIONUCLIDE IMAGING

Isotope brain scanning with Tc-HMPAO: a predictor of outcome in carbon monoxide poisoning? Turner M, et al.
J Accid Emerg Med 1997 May;14(3):139–41

THERAPY

Severe carbon monoxide poisoning in the pediatric patient: a case report. Brown DB, et al.
Aviat Space Environ Med 1996 Mar;67(3):262–5

Treatment of carbon monoxide poisoning with hyperbaric oxygen. Hsu LH, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1996 Dec; 58(6):407–13

Emergency department management of house fire burns and carbon monoxide poisoning in children. Walker AR.
Curr Opin Pediatr 1996 Jun;8(3):239–42 (12 ref.)

Effects of mode of inhalation of carbon monoxide and of normobaric oxygen administration on carbon monoxide elimination from the blood. Levasseur L, et al.
Hum Exp Toxicol 1996 Nov;15(11):898–903

Pitfalls in diagnosis and management of carbon monoxide poisoning. Roy B, et al. **J Accid Emerg Med** 1996 Jan; 13(1):62–3

Hyperbaric oxygen treatment during pregnancy in acute carbon monoxide poisoning. A case report. Silverman RK, et al. **J Reprod Med** 1997 May;42(5):309–11

Hyperbaric-oxygen therapy [letter; comment] Geiderman JM, et al. **N Engl J Med** 1996 Nov 28;335(22):1684; discussion 1685–6. Comment on: N Engl J Med 1996 Jun 20;334(25):1642–8.

Carbon monoxide poisoning [letter; comment] Hardern RD, et al. **Postgrad Med J** 1997 Mar;73(857):189. Comment on: Postgrad Med J 1996 Aug;72(850):470–3.

Central nervous system oxygen toxicity during hyperbaric treatment of patients with carbon monoxide poisoning. Hampson NB, et al. **Undersea Hyperb Med** 1996 Dec; 23(4):215–9

Normobaric and hyperbaric oxygen treatment of acute carbon monoxide poisoning in rats. Jiang J, et al.
Undersea Hyperb Med 1997 Jun;24(2):107–16

[Carbon monoxide poisoning: current aspects] Mathieu D, et al. **Bull Acad Natl Med** 1996 May;180(5):965–71; discussion 972–3 (12 ref.) (Eng. Abstr.) **(Fre)**

[Hyperbaric oxygen for carbon monoxide poisoning] Abramovich A, et al. **Harefuah** 1997 Jan 1;132(1):21–4, 71 (Eng. Abstr.) **(Heb)**

CARBON RADIOISOTOPES

Evaluation of the brain uptake properties of [1-11C]labeled hexanoate in anesthetized cats by means of positron emission tomography. Sakiyama Y, et al.
Ann Nucl Med 1996 Aug;10(3):361–6

Radiosynthesis of [11C]brofaromine, a potential tracer for imaging monoamine oxidase A. Ametamey SM, et al.
Nucl Med Biol 1996 Apr;23(3):229–34

Synthesis and preliminary evaluation of [11C]-(-)-phenylephrine as a functional heart neuronal PET agent. Del Rosario RB, et al. **Nucl Med Biol** 1996 Jul;23(5):611–6

Opioid receptor imaging and displacement studies with [6-O-[11C] methyl]buprenorphine in baboon brain. Galynker I, et al. **Nucl Med Biol** 1996 Apr;23(3):325–31

Evaluation of [11C]RTI-121 as a selective radioligand for PET studies of the dopamine transporter. Hume SP, et al. **Nucl Med Biol** 1996 Apr;23(3):377–84

A simple synthesis of [11C]dihydrotetrabenazine (DTBZ). Jewett DM, et al. **Nucl Med Biol** 1997 Feb;24(2):197–9

Characterization of the radioactive metabolites of the 5-HT1A receptor radioligand, [O-methyl-11C]WAY-100635, in monkey and human plasma by HPLC: comparison of the behaviour of an identified radioactive metabolite with parent radioligand in monkey using PET. Osman S, et al. **Nucl Med Biol** 1996 Jul;23(5):627–34

Feasibility of labeled alpha-acetamido-aminoisobutyric acid as new tracer compound for kinetic labeling of neutral amino acid transport: preparation of alpha-(N-[1-11C]acetyl)- and alpha-(N-[1-14C]acetyl)-aminoisobutyric acid. Prenant C, et al. **Nucl Med Biol** 1996 Apr;23(3):359–63

A distribution study of 11C platelet-activating factor (PAF) analogs in normal and tumor-bearing mice. Sasaki T, et al. **Nucl Med Biol** 1996 Apr;23(3):309–14

Synthesis of [11C-methyl]-alpha-aminoisobutyric acid (AIB). Schmall B, et al. **Nucl Med Biol** 1996 Apr; 23(3):263–6

ANALYSIS

Imaging of radiocarbon-labelled tracer molecules in neural tissue using accelerator mass spectrometry. Hedges RE, et al. **Nature** 1996 Oct 31;383(6603):823–6

CHEMISTRY

Carbon-11 labelling of the antitumour agent N-[2-(dimethylamino)ethyl]acridine-4-carboxamide (DACA) and determination of plasma metabolites in man. Brady F, et al. **Appl Radiat Isot** 1997 Apr;48(4):487–92

Development of [11C]L-159,884: a radiolabelled, nonpeptide angiotensin II antagonist that is useful for angiotensin II, AT1 receptor imaging. Hamill TG, et al.
Appl Radiat Isot 1996 Feb;47(2):211–8

Replacing 14C with stable isotopes in drug metabolism studies. Abramson FP, et al. **Drug Metab Dispos** 1996 Jul; 24(7):697–701

Synthesis of carbon-11- and fluorine-18-labeled 1-methyl-4-piperidyl-4'-fluorobenzoate and their biodistribution in mice. Bormans G, et al.
Nucl Med Biol 1996 May;23(4):513–7

A high-yield and simplified procedure for the synthesis of alpha-[11C]methyl-L-tryptophan. Chakraborty PK, et al. **Nucl Med Biol** 1996 Nov;23(8):1005–8

Synthesis of [1-11C], [2-11C], [1-11C](2H3) and [2-11C](2H3)acetate for in vivo studies of myocardium using PET. Kihlberg T, et al. **Nucl Med Biol** 1994 Nov; 21(8):1067–72

Synthesis of fatty acids specifically labelled with 11C in various positions, including 2H substitution, for in vivo studies of myocardium using PET. Kihlberg T, et al.
Nucl Med Biol 1994 Nov;21(8):1053–65

Synthesis of [11C]dapoxetine.HCl, a serotonin re-uptake inhibitor: biodistribution in rat and preliminary PET imaging in the monkey. Livni E, et al. **Nucl Med Biol** 1994 May;21(4):669–75

Synthesis of the enantiomers of [N-methyl-11C]PK 11195 and comparison of their behaviours as radioligands for PK binding sites in rats. Shah F, et al. **Nucl Med Biol** 1994 May;21(4):573–81

Improved synthesis of beta-CIT and [11C]beta-CIT labeled at nitrogen or oxygen positions. Zheng QH, et al.
Nucl Med Biol 1996 Nov;23(8):981–6

DIAGNOSTIC USE

Clinical positron emission tomography for brain tumors: comparison of fludeoxyglucose F 18 and L-methyl-11C-methionine. Ogawa T, et al.
AJNR Am J Neuroradiol 1996 Feb;17(2):345–53

Lansoprazole and ranitidine affect the accuracy of the 14C-urea breath test by a pH-dependent mechanism. Chey WD, et al. **Am J Gastroenterol** 1997 Mar;92(3):446–50

PET study of competition between intravenous cocaine and [11C]raclopride at dopamine receptors in human subjects [see comments] Schlaepfer TE, et al. **Am J Psychiatry** 1997 Sep;154(9):1209–13. Comment in: Am J Psychiatry 1997 Sep;154(9):1195–7.

Serotonergic modulation of dopamine measured with [11C]raclopride and PET in normal human subjects. Smith GS, et al. **Am J Psychiatry** 1997 Apr;154(4):490–6

Carbon-11 labeled ethionine and propionine as tumor detecting agents. Ishiwata K, et al. **Ann Nucl Med** 1997 May;11(2):115–22

Carbon-11 labelling of the antitumour agent N-[2-(dimethylamino)ethyl]acridine-4-carboxamide (DACA) and determination of plasma metabolites in man. Brady F, et al. **Appl Radiat Isot** 1997 Apr;48(4):487–92

Synthesis and autoradiographic localization of the dopamine D-1 agonists [11C]SKF 75670 and [11C]SKF 82957 as potential PET radioligands. DaSilva JN, et al.
Appl Radiat Isot 1996 Mar;47(3):279–84

Improvement in specificity of [14C]d-xylose breath test for bacterial overgrowth. Lewis SJ, et al. **Dig Dis Sci** 1997 Aug;42(8):1587–92

In vitro and in vivo characterisation of nor-beta-CIT: a potential radioligand for visualisation of the serotonin transporter in the brain. Bergström KA, et al.
Eur J Nucl Med 1997 Jun;24(6):596–601

Assessing neuroreceptor occupancy by continuous infusion of carbon-11 labeled radioligands. Kao PF, et al.
Eur J Nucl Med 1996 Feb;23(2):141–4

Use of carbon-11 nicotine in PET studies [letter; comment] Lundqvist H, et al. **Eur J Nucl Med** 1997 Jul;24(7):825–6 . Comment on: Eur J Nucl Med 1996 Aug;23(8):1012–4.

PET for diagnosis of malignant lymphoma of the scalp: comparison of [11C]methyl-L-methionine and [18F]fluoro-2-deoxyglucose. Tsuyuguchi N, et al.
J Comput Assist Tomogr 1997 Jul–Aug;21(4):590–3 (16 ref.)

Measurement of bile acid synthesis by three different methods in hypertriglyceridemic and control subjects. Duane WC.
J Lipid Res 1997 Jan;38(1):183–8

Methodological validation and clinical usefulness of carbon-14-urea breath test for documentation of presence and eradication of Helicobacter pylori infection. Desroches JJ, et al. **J Nucl Med** 1997 Jul;38(7):1141–5

Regional methionine and glucose uptake in high-grade gliomas: a comparative study on PET-guided stereotactic biopsy. Goldman S, et al. **J Nucl Med** 1997 Sep; 38(9):1459–62

PET imaging of brain tumor with [methyl-11C]choline. Hara T, et al. **J Nucl Med** 1997 Jun;38(6):842–7

PET with L-[1-carbon-11]-tyrosine to visualize tumors and measure protein synthesis rates. Kole AC, et al.
J Nucl Med 1997 Feb;38(2):191–5

Standardized uptake value and quantification of metabolism for breast cancer imaging with FDG and L-[1-11C]tyrosine PET. Kole AC, et al. **J Nucl Med** 1997 May;38(5):692–6

3-[123I]iodo-alpha-methyltyrosine and [methyl-11C]-L-methionine uptake in cerebral gliomas: a comparative study using SPECT and PET. Langen KJ, et al. **J Nucl Med** 1997 Apr;38(4):517–22

Comparative PET imaging of experimental tumors with bromine-76-labeled antibodies,

fluorine-18-fluorodeoxyglucose and carbon-11-methionine. Lövqvist A, et al. **J Nucl Med** 1997 Jul;38(7):1029-35

Effects of active chronic cocaine use on cardiac sympathetic neuronal function assessed by carbon-11-hydroxyephedrine. Melon PG, et al. **J Nucl Med** 1997 Mar;38(3):451-6

Myocardial kinetics of carbon-11-epinephrine in the isolated working rat heart. Nguyen NT, et al. **J Nucl Med** 1997 May;38(5):780-5

Radiation absorbed dose estimates for [1-carbon-11]-glucose in adults: the effects of hyperinsulinemia. Powers WJ. **J Nucl Med** 1996 Oct;37(10):1668-72

Imaging of the pancreas and related diseases with PET carbon-11-acetate. Shreve PD, et al. **J Nucl Med** 1997 Aug;38(8):1305-10

A kinetic model for cardiac PET with [1-carbon-11]-acetate. van den Hoff J, et al. **J Nucl Med** 1996 Mar;37(3):521-9

Carbon-14-urea breath test: a cautionary note [letter] Warwick T. **J Nucl Med** 1996 Nov;37(11):1916

A computational strategy for the deconvolution of NMR spectra with multiplet structures and constraints: analysis of overlapping 13C-2H multiplets of 13C enriched metabolites from cell suspensions incubated in deuterated media. Laatikainen R, et al. **Magn Reson Med** 1996 Sep; 36(3):359-65

14C-urea breath test: a useful non-invasive test in the diagnosis of Helicobacter pylori infection. Goh KL, et al. **Med J Malaysia** 1995 Sep;50(3):208-11

11C-flumazenil PET, volumetric MRI, and quantitative pathology in mesial temporal lobe epilepsy. Koepp MJ, et al. **Neurology** 1997 Sep;49(3):764-73

Carbon-11-labeled estrogens as potential imaging agents for breast tumors. Dence CS, et al. **Nucl Med Biol** 1996 May; 23(4):491-6

11C- and 76Br-labelled NNC 22-0010, selective dopamine D1 receptor radioligands for PET. Foged C, et al. **Nucl Med Biol** 1996 Aug;23(6):837-44

Positron emission tomography (PET) with 11C-5-hydroxytryptophan (5-HTP) in patients with metastatic hormone-refractory prostatic adenocarcinoma. Kälkner KM, et al. **Nucl Med Biol** 1997 May;24(4):319-25

[1-11C]octanoate as a potential PET tracer for studying glial functions: PET evaluation in rats and cats. Kuge Y, et al. **Nucl Med Biol** 1996 Nov;23(8):1009-12

Synthesis of [11C]dapoxetine.HCl, a serotonin re-uptake inhibitor: biodistribution in rat and preliminary PET imaging in the monkey. Livni E, et al. **Nucl Med Biol** 1994 May;21(4):669-75

[11C]metaraminol, a false neurotransmitter: preparation, metabolite studies and positron emission tomography examination in monkey. Någren K, et al. **Nucl Med Biol** 1996 Apr;23(3):221-7

Synthesis and in vivo distribution of no-carrier-added N(omega)-Nitro-L-arginine [11C]methyl ester, a nitric oxide synthase inhibitor. Roeda D, et al. **Nucl Med Biol** 1996 May;23(4):509-12

Synthesis of the enantiomers of [N-methyl-11C]PK 11195 and comparison of their behaviours as radioligands for PK binding sites in rats. Shah F, et al. **Nucl Med Biol** 1994 May;21(4):573-81

In vivo biodistribution of [N-11C-methyl]KF 17837 using 3-D-PET: evaluation as a ligand for the study of adenosine A2A receptors. Stone-Elander S, et al. **Nucl Med Biol** 1997 Feb;24(2):187-91

Positron emission tomography study of human prostatic adenocarcinoma using carbon-11 putrescine. Wang GJ, et al. **Nucl Med Biol** 1994 Jan;21(1):77-82

Validation of a technique for the preparation of individual patient doses of 14C-urea. Clarkson A, et al. **Nucl Med Commun** 1997 Jan;18(1):57-9

An attempt to visualize baboon brain nicotinic receptors with N-[11C]ABT-418 and N-[11C]methyl-cytisine. Valette H, et al. **Nucl Med Commun** 1997 Feb;18(2):164-8

Estimation of fat absorption with the 13C-trioctanoin breath test after pancreatoduodenectomy or pancreatic head resection. Miyakawa S, et al. **World J Surg** 1996 Oct; 20(8):1024-8; discussion 1028-9

13C-starch breath test--comparative clinical evaluation of an indirect pancreatic function test. Löser C, et al. **Z Gastroenterol** 1997 Mar;35(3):187-94

[Regional distribution of the muscarinic cholinergic receptor in the human brain studied with 11C-benztropine and PET using an anatomical standardization technique] Ono S, et al. **Kaku Igaku** 1996 Jul;33(7):721-7 (Eng. Abstr.) **(Jpn)**

[An improved automated synthesis and in vivo evaluation of PET radioligand for serotonin re-uptake sites: [11C]McN5652X] Sasaki M, et al. **Kaku Igaku** 1996 Dec; 33(12):1319-27 (Eng. Abstr.) **(Jpn)**

[Muscarinic cholinergic receptor imaging of parkinsonian brain using 11C-NMPB and PET] Asahina M, et al. **Nippon Rinsho** 1997 Jan;55(1):233-7 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Striatal dopamine D2 receptor in Parkinson disease and its related disorders assessed by C-11 NMSP and PET] Momose T, et al. **Nippon Rinsho** 1997 Jan;55(1):227-32 (4 ref.) (Eng. Abstr.) **(Jpn)**

[Methodological study of 13C-urea breath test for detection of Helicobacter pylori infection] Ohara S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):530-6 (Eng. Abstr.) **(Jpn)**

[Positron emission tomographic evaluation for frontal hypertrophic cranial pachymeningitis using 11C-methyl-L-methionine] Takahashi M, et al. **No Shinkei Geka** 1996 Mar;24(3):287-93 (27 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

Efficacy of intra-arterial norcantharidin in suppressing tumour 14C-labelled glucose oxidative metabolism in rat Morris hepatoma. Mack P, et al. **HPB Surg** 1996; 10(2):65-72

Design and evaluation of radioactive acetylcholine analogs for mapping brain acetylcholinesterase (AchE) in vivo. Irie T, et al. **Nucl Med Biol** 1994 Aug;21(6):801-8

PHARMACOKINETICS

A brain uptake study of [1-(11)C]hexanoate in the mouse: the effect of hypoxia, starvation and substrate competition. Ishiwata K, et al. **Ann Nucl Med** 1996 May;10(2):265-70

Circulatory kinetics of intravenously injected 238Pu(IV) citrate and 14C-CaNa3-DTPA in mice: comparison with rat, dog, and reference man. Durbin PW, et al. **Health Phys** 1997 Feb;72(2):222-35

Simplifying the dosimetry of carbon-11-labeled radiopharmaceuticals. Wrobel MC, et al. **J Nucl Med** 1997 Apr;38(4):654-60

High performance liquid chromatography of carbon-11 labeled thymidine and its major catabolites for clinical PET studies. Conti PS, et al. **Nucl Med Biol** 1994 Nov; 21(8):1045-51

The distribution of [11C]cocaine in normal and cocaine-sensitization mice. Mizugaki M, et al. **Nucl Med Biol** 1994 Aug;21(6):793-9

Carbon-11 labelled ketamine-synthesis, distribution in mice and PET studies in baboons. Shiue CY, et al. **Nucl Med Biol** 1997 Feb;24(2):145-50

In vivo biodistribution of [N-11C-methyl]KF 17837 using 3-D-PET: evaluation as a ligand for the study of adenosine A2A receptors. Stone-Elander S, et al. **Nucl Med Biol** 1997 Feb;24(2):187-91

PHARMACOLOGY

[Kinetics of sialylation of Neisseria gonorrhoeae by radiolabelled cytidine 5'monophospho-N-acetyl neuraminic acid] Goldner M, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):249-53 (Eng. Abstr.) **(Fre)**

CARBON TETRACHLORIDE

A potential experimental model for the study of osteopenia in CCl4 liver cirrhotic rats. Muguerza B, et al. **Rev Esp Fisiol** 1996 Jun;52(2):113-9

ADMINISTRATION & DOSAGE

A pharmacokinetic model describing pulsatile uptake of orally-administered carbon tetrachloride. Semino G, et al. **Toxicology** 1997 Feb 14;117(1):25-33

[Plasma kallikrein clearance by the liver in experimental cirrhosis] de Toledo CF, et al. **Rev Assoc Med Bras** 1995 Nov-Dec;41(6):367-72 (Eng. Abstr.) **(Por)**

ANALOGS & DERIVATIVES

DNA bases attack by reactive metabolites produced during carbon tetrachloride biotransformation and promotion of liver microsomal lipid peroxidation. Castro GD, et al. **Res Commun Mol Pathol Pharmacol** 1997 Mar;95(3):253-8

ANTAGONISTS & INHIBITORS

Schisandrin B protects against carbon tetrachloride toxicity by enhancing the mitochondrial glutathione redox status in mouse liver. Ip SP, et al. **Free Radic Biol Med** 1996; 21(5):709-12

Isoflurane enhances dechlorination of carbon tetrachloride in guinea-pig liver microsomes. Fujii K, et al. **J Appl Toxicol** 1996 May-Jun;16(3):249-53

Stimulated tissue repair prevents lethality in isopropanol-induced potentiation of carbon tetrachloride hepatotoxicity. Rao PS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):235-44

The prevention of CCl4-induced liver necrosis in mice by naturally occurring methylenedioxybenzenes. Zhao ZS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):411-21

METABOLISM

Thiol oxidation and cytochrome P450-dependent metabolism of CCl4 triggers Ca2+ release from liver microsomes. Stoyanovsky DA, et al. **Biochemistry** 1996 Dec 10; 35(49):15839-45

Cytochrome P4502E1- and cytochrome P4502B1/2B2-catalyzed carbon tetrachloride metabolism: effects on signal transduction as demonstrated by altered immediate-early (c-Fos and c-Jun) gene expression and nuclear AP-1 and NF-kappa B transcription factor levels. Gruebele A, et al. **Drug Metab Dispos** 1996 Jan;24(1):15-22

Isoflurane enhances dechlorination of carbon tetrachloride in guinea-pig liver microsomes. Fujii K, et al. **J Appl Toxicol** 1996 May-Jun;16(3):249-53

Carbon tetrachloride: genetic effects and other modes of action. McGregor D, et al. **Mutat Res** 1996 Dec; 366(3):181-95 (113 ref.)

Covalent binding of carbon tetrachloride reactive metabolites to liver microsomal and nuclear lipid and phospholipid classes from Sprague Dawley and osborne Mendel male rats. Fanelli SL, et al. **Teratog Carcinog Mutagen** 1995; 15(4):155-66

Stimulatory effect of anesthetics on dechlorination of carbon tetrachloride in guinea-pig liver microsomes. Fujii K. **Toxicology** 1996 Dec 2;114(2):147-53

PHARMACOKINETICS

Physiologically based pharmacokinetic/pharmacodynamic modeling of the toxicologic interaction between carbon tetrachloride and Kepone. el-Masri HA, et al. **Arch Toxicol** 1996;70(11):704-13

Effect of Emulphor, an emulsifier, on the pharmacokinetics and hepatotoxicity of oral carbon tetrachloride in the rat. Sanzgiri UY, et al. **Fundam Appl Toxicol** 1997 Mar; 36(1):54-61

Fatal accidental ingestion of carbon tetrachloride: a postmortem distribution study. Tombolini A, et al. **J Forensic Sci** 1996 Jan;41(1):166-8

DNA bases attack by reactive metabolites produced during carbon tetrachloride biotransformation and promotion of liver microsomal lipid peroxidation. Castro GD, et al. **Res Commun Mol Pathol Pharmacol** 1997 Mar;95(3):253-8

Physiologically based pharmacokinetic estimated metabolic constants and hepatotoxicity of carbon tetrachloride after methanol pretreatment in rats. Evans MV, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):245-53

Uptake, distribution, and elimination of carbon tetrachloride in rat tissues following inhalation and ingestion exposures. Sanzgiri UY, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):120-9

A pharmacokinetic model describing pulsatile uptake of orally-administered carbon tetrachloride. Semino G, et al. **Toxicology** 1997 Feb 14;117(1):25-33

PHARMACOLOGY

Stimulation of prostaglandin synthesis in cultured liver cells by CCl4. Johnston DE, et al. **Hepatology** 1996 Sep; 24(3):677-84

Activatory effect of regucalcin on hepatic plasma membrane (Ca(2+)-Mg2+)-ATPase is impaired by liver injury with carbon tetrachloride administration in rats. Takahashi H, et al. **Mol Cell Biochem** 1996 May 10;158(1):9-16

A molecular dynamics study of the effect of carbon tetrachloride on enzyme structure and dynamics: subtilisin. Zheng YJ, et al. **Protein Eng** 1996 Jun;9(6):485-92

POISONING see CARBON TETRACHLORIDE POISONING

TOXICITY

Evaluation of blood lipid peroxidation parameters in carbon tetrachloride (CCl4) toxicity in sheep. Vajdovich P, et al. **Acta Vet Hung** 1995;43(4):423-9

Hepatic ultrasonographic findings in experimental carbon tetrachloride intoxication of the dog. Vörös K, et al. **Acta Vet Hung** 1997;45(2):137-50

Preventive effect of oren-gedoku-to (huanglian-jie-du-tang) extract on progression of carbon tetrachloride-induced acute liver injury in rats. Ohta Y, et al. **Am J Chin Med** 1997;25(1):57-68

Histopathological evaluation on the effect of red propolis on liver damage induced by CCl4 in rats. Merino N, et al. **Arch Med Res** 1996 Autumn;27(3):285-9

Physiologically based pharmacokinetic/pharmacodynamic modeling of the toxicologic interaction between carbon tetrachloride and Kepone. el-Masri HA, et al. **Arch Toxicol** 1996;70(11):704-13

Biochemical and morphological characterization of carbon tetrachloride-induced lung fibrosis in rats. Pääkkö P, et al. **Arch Toxicol** 1996;70(9):540-52

Enhanced liver injury in acatalasemic mice following exposure to carbon tetrachloride. Wang DH, et al. **Arch Toxicol** 1996;70(3-4):189-94

The crucial antioxidant action of schisandrin B in protecting against carbon tetrachloride hepatotoxicity in mice: a comparative study with butylated hydroxytoluene. Ip SP, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1687-93

Methylenedioxy group as determinant of schisandrin in enhancing hepatic mitochondrial glutathione in carbon tetrachloride-intoxicated mice. Ip SP, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):317-9

Effect of ginsenoside Rb1 on rat liver phosphoproteins induced by carbon tetrachloride. Park HJ, et al. **Biol Pharm Bull** 1996 Jun;19(6):834-8

Cellular antioxidant defense by a ubiquinol-regenerating system coupled with cytosolic NADPH-dependent ubiquinone reductase: protective effect against carbon tetrachloride-induced hepatotoxicity in the rat. Takahashi T, et al. **Biol Pharm Bull** 1996 Aug;19(8):1005-12

Effects of carbon tetrachloride administration on initiation of liver cell foci by the non-hepatocarcinogens N-methyl-N'-nitro-N-nitrosoguanidine (MNNG) and benzo(a)pyrene (B(a)P). Kobayashi K, et al. **Cancer Lett** 1997 Sep 16;118(1):55-60

p53-independent induction of p21WAF1/CIP1 expression in pericentral hepatocytes following carbon tetrachloride intoxication. Serfas MS, et al. **Cell Growth Differ** 1997 Sep; 8(9):951-61

Immunotoxic effects of carbon tetrachloride--the effect on morphology and function of the immune system in mice. Jírová D, et al. **Cent Eur J Public Health** 1996 Feb; 4(1):16–20

Involvement of polyamines in the protection of taurine against the cytotoxicity of hydrazine or carbon tetrachloride in isolated rat hepatocytes. Wu C, et al. **Chem Biol Interact** 1997 Mar 14;103(3):213–24

The protective effect of aqueous propolis extract on isolated rat hepatocytes against carbon tetrachloride toxicity. Mahran LG, et al. **Drugs Exp Clin Res** 1996;22(6):309–16

Effect of colchiceine and ursodeoxycholic acid on hepatocyte and erythrocyte membranes and liver histology in experimentally induced carbon tetrachloride cirrhosis in rats. Nava-Ocampo AA, et al. **Eur J Clin Invest** 1997 Jan; 27(1):77–84

Antioxidant action of a new flavonic derivative in acute carbon tetrachloride intoxication. Paduraru I, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jan–Mar;21(1):1–6

Histopathological sequence of hepatic and renal lesions in rats after cessation of the repeated administration of CCl4. Ogata S, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):493–9

Continuous hepatocyte growth factor supply prevents lipopolysaccharide–induced liver injury in rats. Kaido T, et al. **FEBS Lett** 1997 Jul 14;411(2–3):378–82

Schisandrin B protects against carbon tetrachloride toxicity by enhancing the mitochondrial glutathione redox status in mouse liver. Ip SP, et al. **Free Radic Biol Med** 1996; 21(5):709–12

Dichloromethane potentiation of carbon tetrachloride hepatotoxicity in rats. Kim YC. **Fundam Appl Toxicol** 1997 Jan;35(1):138–41

Alpha–glutathione s–transferase (alpha–GST) release, an early indicator of carbon tetrachloride hepatotoxicity in the rat. Clarke H, et al. **Hum Exp Toxicol** 1997 Mar; 16(3):154–7

Enhancement of lipid peroxidation in the liver of mice exposed to magnetic fields. Watanabe Y, et al. **Ind Health** 1997 Apr;35(2):285–90

In vivo effect of diosmin on carrageenan and CCl4–induced lipid peroxidation in rat liver microsomes. Melin AM, et al. **J Biochem Toxicol** 1996;11(1):27–32

Simultaneous determination of eight lipid peroxidation degradation products in urine of rats treated with carbon tetrachloride using gas chromatography with electron–capture detection. De Zwart LL, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):277–87

Simultaneous determination of plasma phenytoin and its primary hydroxylated metabolites in carbon tetrachloride–intoxicated rats by high–performance liquid chromatography. Tanaka E, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):147–51

Protective effect of Rhinax, a herbal formulation, against CCl4–induced liver injury and survival in rats. Dhuley JN, et al. **J Ethnopharmacol** 1997 Apr;56(2):159–64

Prolonged decrease in hepatic connexin32 in chronic liver injury induced by carbon tetrachloride in rats. Nakata Y, et al. **J Hepatol** 1996 Oct;25(4):529–37

Effect of dosing vehicle on the hepatotoxicity of CCl4 and nephrotoxicity of CHCl3 in rats. Raymond P, et al. **J Toxicol Environ Health** 1997 Aug 8;51(5):463–76

Ketone potentiation of haloalkane–induced hepatotoxicity: CCl4 and ketone treatment on hepatic membrane integrity. Raymond P, et al. **J Toxicol Environ Health** 1996 Oct 25; 49(3):285–300

Gene expression in liver after toxic injury: analysis of heat shock response and oxidative stress–inducible genes. Schiaffonati L, et al. **Liver** 1997 Aug;17(4):183–91

Carbon tetrachloride: genetic effects and other modes of action. McGregor D, et al. **Mutat Res** 1996 Dec; 366(3):181–95 (113 ref.)

The effect of nicotine and its interaction with carbon tetrachloride in the rat liver. Yuen ST, et al. **Pharmacol Toxicol** 1995 Sep;77(3):225–30

Preventive effect of lithospermate B from Salvia miltiorhiza on experimental hepatitis induced by carbon tetrachloride or D–galactosamine/lipopolysaccharide. Hase K, et al. **Planta Med** 1997 Feb;63(1):22–6

Antihepatotoxic activity of icariin, a major constituent of Epimedium koreanum. Lee MK, et al. **Planta Med** 1995 Dec;61(6):523–6

Prostanoids and free radicals in Cl4C–induced hepatotoxicity in rats: effect of astilbin. Closa D, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):331–4

The cytoprotective effect of iloprost against carbon tetrachloride induced necrosis in rat liver. Bozkurt S, et al. **Res Commun Mol Pathol Pharmacol** 1997 Mar; 95(3):343–6

Response of endogenous reduced glutathione through hepatic glutathione redox cycle to enhancement of hepatic lipid peroxidation with the development of acute liver injury in mice intoxicated with carbon tetrachloride. Nishida K, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug; 93(2):198–218

Attenuation of disrupted hepatic active oxygen metabolism with the recovery of acute liver injury in rats intoxicated with carbon tetrachloride. Ohta Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb; 95(2):191–207

The role of inflammatory cells and cytochrome P450 in the potentiation of CCl4–induced liver injury by a single dose of retinol. Badger DA, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):507–19

Physiologically based pharmacokinetic estimated metabolic constants and hepatotoxicity of carbon tetrachloride after methanol pretreatment in rats. Evans MV, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):245–53

Induction of liver–associated transforming growth factor beta 1 (TGF–beta 1) mRNA expression by carbon tetrachloride leads to the inhibition of T helper 2 cell–associated lymphokines. Jeon YJ, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):27–35

Stimulated tissue repair prevents lethality in isopropanol–induced potentiation of carbon tetrachloride hepatotoxicity. Rao PS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):235–44

Dose– and route–dependent alterations in metabolism and toxicity of chemical compounds in ethanol–treated rats: difference between highly (chloroform) and poorly (carbon tetrachloride) metabolized hepatotoxic compounds. Wang PY, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):13–21

The prevention of CCl4–induced liver necrosis in mice by naturally occurring methylenedioxybenzenes. Zhao ZS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):411–21

Cholesteryl hemisuccinate treatment protects rodents from the toxic effects of acetaminophen, adriamycin, carbon tetrachloride, chloroform and galactosamine. Fariss MW, et al. **Toxicol Lett** 1997 Feb 7;90(2–3):133–44

alpha–Tocopheryl hemisuccinate administration increases rat liver subcellular alpha–tocopherol levels and protects against carbon tetrachloride–induced hepatotoxicity. Tirmenstein MA, et al. **Toxicol Lett** 1997 Jun 16;92(1):67–77

Gadolinium chloride reduces cytochrome P450: relevance to chemical–induced hepatotoxicity. Badger DA, et al. **Toxicology** 1997 Aug 15;121(2):143–53

Tissue injury and repair as parallel and opposing responses to CCl4 hepatotoxicity: a novel dose–response. Rao PS, et al. **Toxicology** 1997 Mar 28;118(2–3):181–93

CARBON TETRACHLORIDE POISONING

[Carbon tetrachloride poisoning] Ochoa Gómez FJ, et al. **An Med Interna** 1996 Aug;13(8):393–4 (Eng. Abstr.) **(Spa)**

BLOOD

[Binding ability of rat serum albumin during tetrachloromethane intoxication and administration of anti–oxidants, anti–hypoia agents, and actoprotectors] Dubovaia TK, et al. **Biull Eksp Biol Med** 1996 Dec; 122(12):635–7 **(Rus)**

DRUG THERAPY

Comparative effects of colchicine and silymarin on CCl4–chronic liver damage in rats. Favari L, et al. **Arch Med Res** 1997 Spring;28(1):11–7

Polyenylphosphatidylcholine attenuates non–alcoholic hepatic fibrosis and accelerates its regression. Ma X, et al. **J Hepatol** 1996 May;24(5):604–13

Effect of colchicine and trimethylcolchicinic acid on CCl4–induced cirrhosis in the rat. Cedillo A, et al. **Pharmacol Toxicol** 1996 Nov;79(5):241–6

[Changes in the morphofunctional status of the liver in rats with acute tetrachloromethane poisoning and their correction with antihypoxants, antioxidants and actoprotectors] Dubovaia TK, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):51–4 (Eng. Abstr.) **(Rus)**

[The effect of nicotinamide, methionine and alpha–tocopherol on the liver conjugating and mono–oxygenase systems and on lipid peroxidation in hepatosis–hepatitis in rats] Legon'kova LF, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):68–71 (Eng. Abstr.) **(Rus)**

[Metabolic reactions of the liver in carbon tetrachloride intoxication and their correction by plant antioxidants] Rak manin IuV, et al. **Gig Sanit** 1997 Jan–Feb;(1):30–2 **(Rus)**

[Chromatin–protective action of the biologically active preparation BTK–8L in tetrachloromethane and chlorophos poisoning] Levitskiĭ EL, et al. **Ukr Biokhim Zh** 1996 Sep–Oct;68(5):76–84 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Regulation of inducible nitric oxide synthase and nitric oxide during hepatic injury and fibrogenesis. Rockey DC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G124–30

Effects of starvation, diabetes and carbon tetrachloride intoxication on rat kidney cortex and liver pyruvate carboxylase levels. Salto R, et al. **Arch Physiol Biochem** 1996 Dec;104(7):845–50

ETIOLOGY

[The pathogenesis, clinical picture and treatment of poisonings by organic solvents, derivatives of chlorinated hydrocarbons (trichloroethylene, carbon tetrachloride)] Sidorin GI, et al. **Med Tr Prom Ekol** 1997;(3):8–11 (Eng. Abstr.) **(Rus)**

GENETICS

Expression of TA1, a rat oncofetal cDNA with homology to transport–associated genes, in carbon–tetrachloride–induced liver injury. Shultz VD, et al. **Pathobiology** 1997;65(1):14–25

METABOLISM

Macrophages modulate liver cell function via tryptophan metabolites. Nagamura Y, et al. **Adv Exp Med Biol** 1996; 398:381–6

Depression of liver microsomal glucose 6–phosphatase activity in carbon tetrachloride–poisoned rats. Potential synergistic effects of lipid peroxidation and of covalent binding of haloalkane–derived free radicals to cellular components in the process. González Padrón A, et al. **Free Radic Biol Med** 1996;21(1):81–7

Selective enhancement of lipid peroxidation in plasma membrane in two experimental models of liver regeneration: partial hepatectomy and acute CC14 administration. Aguilar–Delfín I, et al. **Hepatology** 1996 Sep;24(3):657–62

Fatal accidental ingestion of carbon tetrachloride: a postmortem distribution study. Tombolini A, et al. **J Forensic Sci** 1996 Jan;41(1):166–8

Potentiation of carbon tetrachloride–induced liver damage by dibutylyl–3',5'–cyclic AMP in unstarved rats. Irita K, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):658–61

Independent regulation of JNK/p38 mitogen–activated protein kinases by metabolic oxidative stress in the liver. Mendelson KG, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12908–13

Changes in the ability of ATP synthesis in the mitochondrial membrane in the rat liver injured by carbon tetrachloride. Seya K, et al. **Tohoku J Exp Med** 1996 Apr;178(4):425–30

[Expression of the specific estrogen–binding protein in the liver of the androgenized mature female rats during liver regeneration after CCl4 intoxication] Shchelkunova TA, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):28–31 **(Rus)**

[Metabolic reactions of the liver in carbon tetrachloride intoxication and their correction by plant antioxidants] Rak manin IuV, et al. **Gig Sanit** 1997 Jan–Feb;(1):30–2 **(Rus)**

PATHOLOGY

Histopathological evaluation on the effect of red propolis on liver damage induced by CCl4 in rats. Merino N, et al. **Arch Med Res** 1996 Autumn;27(3):285–9

Expansion of transplanted hepatocytes during liver regeneration. Yazigi NA, et al. **Transplantation** 1997 Sep 27;64(6):816–20

[The cellular mechanisms of the regeneration of the cirrhotic liver in rats. I. The correlation of the processes of cellular proliferation, polyploidization and hypertrophy after the cessation of chronic exposure to carbon tetrachloride] Sakuta GA, et al. **Tsitologiia** 1996;38(11):1158–70 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Studies on the effect of ursodesoxycholic acid on rats with acute carbontetrachloride injury. Kulcsár–Gergely J, et al. **Arzneimittelforschung** 1997 May;47(5):659–61

NO as an indicator of portal hemodynamics and the role of iNOS in increased NO production in CCl4–induced liver cirrhosis. Mizumoto M, et al. **J Surg Res** 1997 Jul 1; 70(2):124–33

[Role of lipid peroxidation in the mechanism of proliferation of hepatic fibrous tissue in experimental chronic hepatitis] Vengerovskiĭ AI, et al. **Patol Fiziol Eksp Ter** 1996 Apr–Jun; (2):37–9 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Hepatoprotective effect of Hovenia dulcis THUNB. on experimental liver injuries induced by carbon tetrachloride or D–galactosamine/lipopolysaccharide. Hase K, et al. **Biol Pharm Bull** 1997 Apr;20(4):381–5

Protective effects of red ginseng saponins against carbon tetrachloride–induced hepatotoxicity in Sprague Dawley rats. Jeong TC, et al. **Planta Med** 1997 Apr;63(2):136–40

CARBONACEOUS CHONDRITES see **METEOROIDS**

CARBONATE DEHYDRATASE

ANALYSIS

Carbonic anhydrase and cardiac pH regulation. Vandenberg JI, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1838–46

The potential role of fecal carbonic anhydrase II in screening for colorectal cancer. Yokoyama S, et al. **Am Surg** 1997 Mar;63(3):243–6; discussion 246–7

Functional wave time–lag focusing matrix–assisted laser desorption/ionization in a linear time–of–flight mass spectrometer: improved mass accuracy. Whittal RM, et al. **Anal Chem** 1997 Jun 1;69(11):2147–53

An immunocytochemical study of the carbonic anhydrase I isoenzyme in human oral Merkel cells. Christie KN, et al. **Arch Oral Biol** 1996 Aug–Sep;41(8–9):901–4

Membrane–associated carbonic anhydrase IV in skeletal muscle: subcellular localization. Decker B, et al. **Histochem Cell Biol** 1996 Oct;106(4):405–11

Histochemical localization of carbonic anhydrase in the

trachea of the guinea pig. Okamura H, et al. **Histochem Cell Biol** 1996 Aug;106(2):257–60

Enzyme-histochemical localization of carbonic anhydrase in the inner ear of the guinea pig and several improvements of the technique. Okamura HO, et al. **Histochem Cell Biol** 1996 Oct;106(4):425–30

Chromatographic and electrophoretic methods related to the carbonic anhydrase isozymes. Bergenhem N. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1–2):289–305 (121 ref.)

Carbonic anhydrase isoenzymes I, II, III, and IV are present in human esophageal epithelium. Christie KN, et al. **J Histochem Cytochem** 1997 Jan;45(1):35–40

Axial distribution of band 3–positive intercalated cells in the collecting duct of control and ammonium chloride–loaded rabbits. Verlander JW, et al. **Kidney Int Suppl** 1996 Dec; 57:S137–47

Expression of carbonic anhydrase II mRNA and protein in oligodendrocytes during toxic demyelination in the young adult mouse. Tansey FA, et al. **Neurochem Res** 1996 Apr; 21(4):411–6

ANTAGONISTS & INHIBITORS see CARBONIC ANHYDRASE INHIBITORS

BIOSYNTHESIS

Isosorbide nitrates, nitroglycerin, and sodium nitroprusside induce vasodilation concomitantly with inhibition of carbonic anhydrase I in erythrocytes. Puscas I, et al. **Am J Hypertens** 1997 Jan;10(1):124–8

Expression of carbonic anhydrase IV mRNA in rabbit kidney: stimulation by metabolic acidosis. Winkler CA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F551–60

Expression of carbonic anhydrase isozymes (CA–I, CA–II, CA–III) during postnatal development of the rat gastrointestinal tract. Igarashi S, et al. **Anat Anz** 1996 Aug; 178(4):369–73

Expression of carbonic anhydrase isozyme III in the ciliary processes and lens. Jampel HD, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):539–43

A carbonic anhydrase gene is induced in the nodule primordium and its cell–specific expression is controlled by the presence of Rhizobium during development. Coba de la Peña T, et al. **Plant J** 1997 Mar;11(3):407–20

Discovery of an algal mitochondrial carbonic anhydrase: molecular cloning and characterization of a low–CO2–induced polypeptide in Chlamydomonas reinhardtii. Eriksson M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):12031–4

BLOOD

Norepinephrine–mediated hypoxic stimulation of embryonic red cell carbonic anhydrase and 2,3–DPG synthesis. Dragon S, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R982–9

Adenosine causes cAMP–dependent activation of chick embryo red cell carbonic anhydrase and 2,3–DPG synthesis. Glombitza S, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R973–81

Human erythrocyte CAI and CAII isoenzymes in hypoxemic and anemic fetuses. Akbar SA, et al. **Clin Biochem** 1996 Feb;29(1):57–62

Effects of thyroid hormone on erythrocyte carbonic anhydrase–I and zinc concentrations in vivo and in vitro: clinical usefulness of carbonic anhydrase–I and zinc concentrations in erythrocytes. Yoshida K. **Tohoku J Exp Med** 1996 Apr;178(4):345–56 (33 ref.)

CEREBROSPINAL FLUID

Carbonic anhydrase II in the cerebrospinal fluid: its value as a disease marker. Parkkila AK, et al. **Eur J Clin Invest** 1997 May;27(5):392–7

CHEMISTRY

Representing primary electrophoretic data in the 1/time domain: comparison to representations in the time domain. Mammen M, et al. **Anal Chem** 1997 Jun 1;69(11):2165–70 (16 ref.)

Carbonic anhydrase IV: purification of a secretory form of the recombinant human enzyme and identification of the positions and importance of its disulfide bonds. Waheed A, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):432–8

Formation of local native–like tertiary structures in the slow refolding reaction of human carbonic anhydrase II as monitored by circular dichroism on tryptophan mutants. Andersson D, et al. **Biochemistry** 1997 Apr 15; 36(15):4623–30

Catalysis and inhibition of human carbonic anhydrase IV. Baird TT Jr, et al. **Biochemistry** 1997 Mar 4;36(9):2669–78

The sulfhydryl groups of Cys 269 and Cys 272 are critical for the oligomeric state of chloroplast carbonic anhydrase from Pisum sativum. Björkbacka H, et al. **Biochemistry** 1997 Apr 8;36(14):4287–94

Carbonic anhydrase activators: X–ray crystallographic and spectroscopic investigations for the interaction of isozymes I and II with histamine. Briganti F, et al. **Biochemistry** 1997 Aug 26;36(34):10384–92

Disruption of the active site solvent network in carbonic anhydrase II decreases the efficiency of proton transfer. Jackman JE, et al. **Biochemistry** 1996 Dec 24; 35(51):16421–8

Tertiary structure formation at specific tryptophan side chains in the refolding of human carbonic anhydrase II. Jonasson P, et al. **Biochemistry** 1997 Apr 29;36(17):5142–8

X–ray crystallographic studies of alanine–65 variants of carbonic anhydrase II reveal the structural basis of compromised proton transfer in catalysis. Scolnick LR, et al. **Biochemistry** 1996 Dec 24;35(51):16429–34

Adsorption to silica nanoparticles of human carbonic anhydrase II and truncated forms induce a molten–globule–like structure. Billsten P, et al. **FEBS Lett** 1997 Jan 27;402(1):67–72

Amino acid sequence homology between N– and C–terminal halves of a carbonic anhydrase in Porphyridium purpureum, as deduced from the cloned cDNA. Mitsuhashi S, et al. **J Biol Chem** 1996 Nov 8;271(45):28703–9

Molten–globule state of carbonic anhydrase binds to the chaperone–like alpha–crystallin. Rajaraman K, et al. **J Biol Chem** 1996 Nov 1;271(44):27595–600

Sequential assignment of 1H, 13C and 15N resonances of human carbonic anhydrase I by triple–resonance NMR techniques and extensive amino acid–specific 15N–labeling. Sethson I, et al. **J Biomol NMR** 1996 Dec;8(4):417–28

Characterizing the use of perdeuteration in NMR studies of large proteins: 13C, 15N and 1H assignments of human carbonic anhydrase II. Venters RA, et al. **J Mol Biol** 1996 Dec 20;264(5):1101–16

Fit to be tied [news] Mansfield ML. **Nat Struct Biol** 1997 Mar;4(3):166–7

Discovery of an algal mitochondrial carbonic anhydrase: molecular cloning and characterization of a low–CO2–induced polypeptide in Chlamydomonas reinhardtii. Eriksson M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):12031–4

Virtual combinatorial libraries: dynamic generation of molecular and supramolecular diversity by self–assembly [published erratum appears in Proc Natl Acad Sci U S A 1997 Jul 22;94(15):8272] Huc I, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2106–10

Crystal structure of the secretory form of membrane–associated human carbonic anhydrase IV at 2.8–A resolution. Stams T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13589–94

Gly–63–>Gln substitution adjacent to His–64 in rodent carbonic anhydrase IVs largely explains their reduced activity. Tamai S, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13647–52

Structure of His94–>Asp carbonic anhydrase II in a new crystalline form reveals a partially occupied zinc binding site. Ippolito JA, et al. **Protein Eng** 1995 Oct;8(10):975–80

A comparative CD study of carbonic anhydrase isoenzymes with different number of tryptophans: impact on calculation of secondary structure content. Borén K, et al. **Protein Sci** 1996 Dec;5(12):2479–84

Control of aggregation in protein refolding: the temperature–leap tactic. Xie Y, et al. **Protein Sci** 1996 Mar; 5(3):517–23

[Three–stage equilibrium unfolding of small globular proteins by denaturing agents. I. Carboanhydrase B] Uverskiĭ VN, et al. **Mol Biol (Mosk)** 1996 Sep–Oct;30(5):1124–34 **(Rus)**

DEFICIENCY

Expression of carbonic anhydrase IV in carbonic anhydrase II–deficient mice. Brion LP, et al. **Am J Physiol** 1997 Aug; 273(2 Pt 2):F234–45

Carbonic anhydrase II (CA II) deficiency in Maghrebian patients: evidence for founder effect and genomic recombination at the CA II locus. Fathallah DM, et al. **Hum Genet** 1997 May;99(5):634–7

A point mutation in exon 3 (His 107–>Tyr) in two unrelated Japanese patients with carbonic anhydrase II deficiency with central nervous system involvement. Soda H, et al. **Hum Genet** 1996 Apr;97(4):435–7

Seven novel mutations in carbonic anhydrase II deficiency syndrome identified by SSCP and direct sequencing analysis. Hu PY, et al. **Hum Mutat** 1997;9(5):383–7

[Carbonic anhydrase II deficiency] Ohtomo Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):601–4 (10 ref.) **(Jpn)**

DRUG EFFECTS

Carbonic anhydrase activators. XV. A kinetic study of the interaction of bovine isozyme II with pyrazoles, bis– and tris–azolyl–methanes. Supuran CT, et al. **Biol Pharm Bull** 1996 Nov;19(11):1417–22

GENETICS

Expression of carbonic anhydrase IV mRNA in rabbit kidney: stimulation by metabolic acidosis. Winkler CA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F551–60

Expression of carbonic anhydrase II (CA II) promoter–reporter fusion genes in multiple tissues of transgenic mice does not replicate normal patterns of expression indicating complexity of CA II regulation in vivo. Erickson RP, et al. **Biochem Genet** 1995 Dec; 33(11–12):421–37

Molecular cloning of the mouse gene coding for carbonic anhydrase IV. Tamai S, et al. **Biochem Genet** 1996 Feb; 34(1–2):31–43

Formation of local native–like tertiary structures in the slow refolding reaction of human carbonic anhydrase II as monitored by circular dichroism on tryptophan mutants. Andersson D, et al. **Biochemistry** 1997 Apr 15; 36(15):4623–30

Skeletal muscle contraction modulates carbonic anhydrase phenotype in adult mouse dorsal root ganglion neurons. Mayeux V, et al. **Brain Res** 1995 Oct 2;694(1–2):191–9

Carbonic anhydrase II and carbonic anhydrase–related protein in the cerebellar cortex of normal and lurcher mice. Nógrádi A, et al. **Brain Res Dev Brain Res** 1997 Jan 2; 98(1):91–101

The complete sequence, expression in Escherichia coli, purification and some properties of carbonic anhydrase from Neisseria gonorrhoeae. Chiricâ LC, et al. **Eur J Biochem** 1997 Mar 15;244(3):755–60

Carbonic anhydrase IX, MN/CA IX: analysis of stomach complementary DNA sequence and expression in human and rat alimentary tracts. Pastoreková S, et al. **Gastroenterology** 1997 Feb;112(2):398–408

Characterization of the rat carbonic anhydrase II gene structure: sequence analysis of the 5' flanking region and 3' UTR. McGowan MH, et al. **Gene** 1997 Feb 28; 186(2):181–8

Carbonic anhydrase II (CA II) deficiency in Maghrebian patients: evidence for founder effect and genomic recombination at the CA II locus. Fathallah DM, et al. **Hum Genet** 1997 May;99(5):634–7

A point mutation in exon 3 (His 107–>Tyr) in two unrelated Japanese patients with carbonic anhydrase II deficiency with central nervous system involvement. Soda H, et al. **Hum Genet** 1996 Apr;97(4):435–7

Identification and characterization of a gene encoding a vertebrate–type carbonic anhydrase in cyanobacteria. Soltes–Rak E, et al. **J Bacteriol** 1997 Feb;179(3):769–74

Differential expression of the carbonic anhydrase genes for CA VII (Car7) and CA–RP VIII (Car8) in mouse brain. Lakkis MM, et al. **J Histochem Cytochem** 1997 May; 45(5):657–62

Isolation and characterization of a carbonic anhydrase homologue from the zebrafish (Danio rerio). Peterson RE, et al. **J Mol Evol** 1997 Apr;44(4):432–9

Localization of the mitochondrial carbonic anhydrase V gene, Car5, on mouse chromosome 8. Lakkis MM, et al. **Mamm Genome** 1997 Mar;8(3):225–6

Alterations in the mRNA levels of two metabolic enzymes in rat skeletal muscle during stretch–induced hypertrophy and disuse atrophy. Brownson C, et al. **Pflugers Arch** 1996 Apr;431(6):990–2

Circadian expression of the carbonic anhydrase gene, Cah1, in Chlamydomonas reinhardtii. Fujiwara S, et al. **Plant Mol Biol** 1996 Nov;32(4):745–9

Molecular cloning and biochemical characterization of carbonic anhydrase from Populus tremula x tremuloides. Larsson S, et al. **Plant Mol Biol** 1997 Jul;34(4):583–92

Human carbonic anhydrase IV: in vitro activation and purification of disulfide–bonded enzyme following expression in Escherichia coli. Waheed A, et al. **Protein Expr Purif** 1997 Mar;9(2):279–87

IMMUNOLOGY

Endometriosis: identification by carbonic anhydrase autoantibodies and clinical features. Brinton DA, et al. **Ann Clin Lab Sci** 1996 Sep–Oct;26(5):409–20

Carbonic anhydrase and primary chronic pancreatitis [letter; comment] Cavallini G, et al. **Gastroenterology** 1997 Mar; 112(3):1054–6. Comment on: Gastroenterology 1996 May;110(5):1579–86.

Antibodies to carbonic anhydrase in autoimmune cholangiopathy [letter; comment] Muratori P, et al. **Gastroenterology** 1997 Mar;112(3):1053–4. Comment on: Gastroenterology 1995 Jun;108(6):1802–9.

ISOLATION & PURIFICATION

The complete sequence, expression in Escherichia coli, purification and some properties of carbonic anhydrase from Neisseria gonorrhoeae. Chiricâ LC, et al. **Eur J Biochem** 1997 Mar 15;244(3):755–60

Human carbonic anhydrase IV: in vitro activation and purification of disulfide–bonded enzyme following expression in Escherichia coli. Waheed A, et al. **Protein Expr Purif** 1997 Mar;9(2):279–87

METABOLISM

Localisation of carbonic anhydrase in the sperm storing regions of the domestic hen oviduct. Holm L, et al. **Acta Anat (Basel)** 1996;156(4):253–60

Expression of carbonic anhydrase IV in carbonic anhydrase II–deficient mice. Brion LP, et al. **Am J Physiol** 1997 Aug; 273(2 Pt 2):F234–45

Carbonic anhydrase II expression pattern in mouse embryonic and fetal heart. Vuillemin M, et al. **Anat Embryol (Berl)** 1997 Mar;195(3):267–77

Decreased carbonic anhydrase III levels in the liver of the mouse mutant 'toxic milk' (tx) due to copper accumulation. Grimes A, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):341–6

Disruption of the active site solvent network in carbonic anhydrase II decreases the efficiency of proton transfer. Jackman JE, et al. **Biochemistry** 1996 Dec 24; 35(51):16421–8

Cloning, sequencing, and recombinant expression of the porcine inhibitor of carbonic anhydrase: a novel member of the transferrin family. Wuebbens MW, et al.

Biochemistry 1997 Apr 8;36(14):4327–36
GroEL reversibly binds to, and causes rapid inactivation of, human carbonic anhydrase II at high temperatures. Persson M, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):191–8
Identification of nasal epithelial cells with carbonic anhydrase activity. Okamura H, et al. **Brain Res** 1996 Jul 29; 728(2):263–6
Evidence for the involvement of carbonic anhydrase and urease in calcium carbonate formation in the gravity-sensing organ of Aplysia californica. Pedrozo HA, et al. **Calcif Tissue Int** 1997 Sep;61(3):247–55
Effect of carbonic anhydrase inhibition and acetoacetate on anaplerotic pyruvate carboxylase activity in cultured rat astrocytes. Hazen SA, et al. **Dev Neurosci** 1997;19(2):162–71
GroEL provides a folding pathway with lower apparent activation energy compared to spontaneous refolding of human carbonic anhydrase II. Persson M, et al. **FEBS Lett** 1997 Jul 7;411(1):43–7
Carbonic anhydrase IX, MN/CA IX: analysis of stomach complementary DNA sequence and expression in human and rat alimentary tracts. Pastoreková S, et al. **Gastroenterology** 1997 Feb;112(2):398–408
Carbonic anhydrase activity is increased in retinal pigmented epithelium and choriocapillaris of RCS rats. Eichhorn M, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Apr; 234(4):258–63
Membrane-bound carbonic anhydrase IV is expressed in the luminal plasma membrane of the human gallbladder epithelium. Parkkila S, et al. **Hepatology** 1996 Nov; 24(5):1104–8
Redistribution of carbonic anhydrase VI expression from ducts to acini during development of ovine parotid and submandibular glands. Penschow JD, et al. **Histochem Cell Biol** 1997 May;107(5):417–22
Membrane-associated carbonic anhydrase in cultured rabbit nonpigmented ciliary epithelium. Wu Q, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):2093–102
Selection of carbonic anhydrase variants displayed on phage. Aromatic residues in zinc binding site enhance metal affinity and equilibration kinetics. Hunt JA, et al. **J Biol Chem** 1997 Aug 15;272(33):20364–72
Catalytic properties of murine carbonic anhydrase IV. Hurt JD, et al. **J Biol Chem** 1997 May 23;272(21):13512–8
Molten-globule state of carbonic anhydrase binds to the chaperone-like alpha-crystallin. Rajaraman K, et al. **J Biol Chem** 1996 Nov 1;271(44):27595–600
Total body zinc depletion and its relationship to the development of hyperprolactinemia in chronic renal insufficiency. Caticha O, et al. **J Endocrinol Invest** 1996 Jul-Aug;19(7):441–8
Novel aromatic/heterocyclic sulfonamides and their metal complexes as inhibitors of carbonic anhydrase isozymes I, II and IV. Supuran CT, et al. **J Enzyme Inhib** 1997 Apr; 12(1):37–51
In-vitro interaction of artemisinin with intact human erythrocytes, erythrocyte ghosts, haemoglobin and carbonic anhydrase. Bakhshi HB, et al. **J Pharm Pharmacol** 1997 Feb;49(2):223–6
Membrane-bound carbonic anhydrase activity in the rat corneal endothelium and retina. Terashima H, et al. **Jpn J Ophthalmol** 1996;40(2):142–53
Carbonic anhydrase activity in different placenta types: a comparative study of pig, horse, cow, mink, rat, and human. Ridderstråle Y, et al. **Microsc Res Tech** 1997 Jul 1-15;38(1-2):115–24
Intracellular carbonic anhydrase is essential to photosynthesis in Chlamydomonas reinhardtii at atmospheric levels of CO2. Demonstration via genomic complementation of the high-CO2-requiring mutant ca-1. Funke RP, et al. **Plant Physiol** 1997 May;114(1):237–44
Virtual combinatorial libraries: dynamic generation of molecular and supramolecular diversity by self-assembly [published erratum appears in Proc Natl Acad Sci U S A 1997 Jul 22;94(15):8272] Huc I, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2106–10
Gly-63-->Gln substitution adjacent to His-64 in rodent carbonic anhydrase IVs largely explains their reduced activity. Tamai S, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13647–52
Is cyanate a carbonic anhydrase substrate? Supuran CT, et al. **Proteins** 1997 Feb;27(2):272–8
Potential role of endothelial carbonic anhydrase in dehydration of plasma bicarbonate. Klocke RA. **Trans Am Clin Climatol Assoc** 1996;108:44–57; discussion 57–8
[Observation on activity of carbonic anhydrase in the vestibule of guinea pigs] Wang T, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1996;31(1):24–5 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Addition of carbonic anhydrase augments extracellular pH buffering in rat cerebral cortex. Huang W, et al. **J Neurophysiol** 1995 Oct;74(4):1806–9

PHYSIOLOGY

Carbonic anhydrase facilitates CO2 and NH3 transport across the sarcolemma of trout white muscle. Henry RP, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1754–61
Acid/base transport in a model of the proximal tubule brush border: impact of carbonic anhydrase. Krahn TA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F344–55
Carbonic anhydrase and the heart. Swenson ER. **Cardiologia** 1997 May;42(5):453–62 (97 ref.)
Salivary carbonic anhydrase protects gastroesophageal mucosa from acid injury. Parkkila S, et al. **Dig Dis Sci** 1997 May;42(5):1013–9
Increased susceptibility of brain slices from carbonic anhydrase II-deficient mice to low [Mg2+]O-induced seizures. Velíšek L, et al. **Neurosci Lett** 1996 Apr 5; 207(3):143–6
Early postnatal muscle contractile activity regulates the carbonic anhydrase phenotype of proprioceptive neurons in young and mature mice: evidence for a critical period in development. Mayeux V, et al. **Neuroscience** 1996 Apr; 71(3):787–95
Physiological characterization of pulmonary carbonic anhydrase in the turtle. Stabenau EK, et al. **Respir Physiol** 1996 Jul;104(2-3):187–96
[Targeting of type IV carbonic anhydrases in Capan-1 human pancreatic duct cells is concomitant of the polarization] Mairal A, et al. **Gastroenterol Clin Biol** 1996;20(6-7):581–90 (Eng. Abstr.) **(Fre)**

CARBONATE DEHYDRATASE INHIBITORS see **CARBONIC ANHYDRASE INHIBITORS**

CARBONATE DEHYDRATASE ISOENZYMES see **CARBONATE DEHYDRATASE**

CARBONATED BEVERAGES

Carbonated beverage consumption and bone mineral density among older women: the Rancho Bernardo Study. Kim SH, et al. **Am J Public Health** 1997 Feb;87(2):276–9
The effects of soft drinks on etched and sealed enamel. Steffen JM. **Angle Orthod** 1996;66(6):449–56
Soft drink logos on baby bottles: do they influence what is fed to children? Siener K, et al. **ASDC J Dent Child** 1997 Jan-Feb;64(1):55–60
Effect of carbonated water on gastric emptying and intragastric meal distribution. Pouderoux P, et al. **Dig Dis Sci** 1997 Jan;42(1):34–9
Effects of caffeine- and sugar-free beverages on psychomotor performance. Meliska CJ, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):912–4
[The secondary prevention of hypertension with carbonated mineral waters] Iubitskaia NS, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov-Dec;(6):5–7 (Eng. Abstr.) **(Rus)**

ANALYSIS

Caffeine content of fountain and private-label store brand carbonated beverages. Grand AN, et al. **J Am Diet Assoc** 1997 Feb;97(2):179–82
[Determination of benzoic acid in nonalcoholic carbonated soft drinks using the HPLC method] Rodziewicz L, et al. **Rocz Panstw Zakl Hig** 1996;47(4):411–4 (Eng. Abstr.) **(Pol)**

CARBONATES

Substitution of carbonate by acetate buffer for IgG coating in sandwich ELISA. Cuvelier A, et al. **J Immunoassay** 1996 Nov;17(4):371–82
Martian 'microbes' cover their tracks [news] Kerr RA. **Science** 1997 Apr 4;276(5309):30–1

ADMINISTRATION & DOSAGE

Does the administration of carbicarb lead acutely to back-titration of non-bicarbonate buffers? Kamel KS. **Clin Nephrol** 1996 Aug;46(2):112–6
[The effect of carbonate mineral water on the water-electrolyte metabolic status in experimental nephrocalcinosis] Gvozdenko TA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May-Jun; (3):32–5 (Eng. Abstr.) **(Rus)**
[The combined use of mud applications and the drinking of carbonate mineral water in patients with gastric and duodenal peptic ulcer] Mekhtiev PS, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan-Feb;(1):16–9 **(Rus)**

ANALYSIS

Behavior of carbonate and magnesium ions in the initial crystallites at the early developmental stages of the rat calvaria. Kakei M, et al. **Anat Anz** 1997 Aug;179(4):311–6
Mineral changes in a mouse model of osteogenesis imperfecta detected by Fourier transform infrared microscopy. Camacho NP, et al. **Connect Tissue Res** 1996; 35(1-4):259–65
Strontianite in coral skeletal aragonite. Greegor RB, et al. **Science** 1997 Mar 7;275(5305):1452–4

CHEMICAL SYNTHESIS

Synthesis and study of thiocarbonate derivatives of choline as potential inhibitors of acetylcholinesterase. Boyle NA, et al. **J Med Chem** 1997 Sep 12;40(19):3009–13

CHEMISTRY

Thermal properties and physical ageing behaviour of tyrosine-derived polycarbonates. Tangpasuthadol V, et al. **Biomaterials** 1996 Feb;17(4):463–8
Preparing mixed cellulose ester or polycarbonate membrane filter replicas for transmission electron microscopy. Gorycki MA. **Biotech Histochem** 1995 Nov;70(6):297–301
Dental fluorosis and the use of a high fluoride-containing trona tenderizer (magadi). Mabelya L, et al. **Community Dent Oral Epidemiol** 1997 Apr;25(2):170–6
Carbonate interferences by ion chromatographic determination of anions in mineral waters. Novič M, et al. **J Chromatogr A** 1997 Mar 14;764(2):249–56
Magnesium-containing carbonate apatites. Mayer I, et al. **J Inorg Biochem** 1997 Apr;66(1):1–6
Petrological evidence for shock melting of carbonates in the martian meteorite ALH84001. Scott ER, et al. **Nature** 1997 May 22;387(6631):377–9
Evaluating the evidence for past life on Mars [letter; comment] Anders E. **Science** 1996 Dec 20; 274(5295):2119–21; discussion 2122–5. Comment on: Science 1996 Aug 16;273(5277):924–30.
Paleomagnetic evidence of a low-temperature origin of carbonate in the Martian meteorite ALH84001. Kirschvink JL, et al. **Science** 1997 Mar 14;275(5306):1629–33
Low-temperature carbonate concretions in the Martian meteorite ALH84001: evidence from stable isotopes and mineralogy. Valley JW, et al. **Science** 1997 Mar 14; 275(5306):1633–8

PHARMACOKINETICS

Biodistribution of cyclic carbonate of ioxilan: a radiopaque particulate macrophage imaging agent. Li C, et al. **Acad Radiol** 1996 Jun;3(6):500–6
The kinetics of initial gastrointestinal absorption of an aluminium-containing antacid (Tisacid) in patients with various stages of chronic renal insufficiency [letter] Sárszegi Z, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):372–3

PHARMACOLOGY

Interaction of an aluminum-magnesium containing antacid and gastric mucus: possible contribution to the cytoprotective function of antacids. Grübel P, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):139–45
Influence of alkaline buffers on cytoplasmic pH in myocardial cells exposed to metabolic acidosis. Li YC, et al. **Resuscitation** 1996 Jul;32(1):33–44

THERAPEUTIC USE

[The secondary prevention of hypertension with carbonated mineral waters] Iubitskaia NS, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov-Dec;(6):5–7 (Eng. Abstr.) **(Rus)**

TOXICITY

Development of biodegradable ioxilan carbonate particles for contrast enhancement of the liver in computed tomography scanning: toxicity assessment. Li C, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S227–8
[The response reaction of the body to exposure to arsenous carbonate water in an experiment] Antoniuk MV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul-Aug;(4):24–6 (Eng. Abstr.) **(Rus)**

CARBONIC ACID

ANALYSIS

[Changes in the content of fats, neutral sterols, bile acids and carbonic acids with short chain in the feces from patients with chronic pancreatitis] Nakamura T, et al. **Klin Med (Mosk)** 1996;74(4):35–7 **(Rus)**

CARBONIC ANHYDRASE see **CARBONATE DEHYDRATASE**

CARBONIC ANHYDRASE INHIBITORS

see related
DIURETICS

ADMINISTRATION & DOSAGE

Isosorbide nitrates, nitroglycerin, and sodium nitroprusside induce vasodilation concomitantly with inhibition of carbonic anhydrase I in erythrocytes. Puscas I, et al. **Am J Hypertens** 1997 Jan;10(1):124–8
Comparison of topical timolol gel to oral acetazolamide in the prophylaxis of viscoelastic-induced ocular hypertension after penetrating keratoplasty. Kanellopoulos AJ, et al. **Cornea** 1997 Jan;16(1):12–5
A comparison of dorzolamide and timolol in patients with pseudoexfoliation and glaucoma or ocular hypertension. Heijl A, et al. **Ophthalmology** 1997 Jan;104(1):137–42
[Effectiveness of dorzolamide as added therapy in glaucoma patients with maximum tolerated drug therapy. A pilot study] Denk PO, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):360–4 (Eng. Abstr.) **(Ger)**
[Local carbonic anhydrase inhibitor dorzolamide: development and properties] Pfeiffer N. **Ophthalmologe** 1996 Feb;93(1):103–18 (9 ref.) **(Ger)**

[L-dopa/benserazide during pregnancy in a patient with juvenile parkinsonism] Arai H, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):264–5 (Eng. Abstr.) **(Jpn)**

[Carbonic anhydrase inhibitors with topical action in the treatment of glaucomatous diseases. A preliminary note] Gafencu O, et al. **Oftalmologia** 1997;41(1):66–8 (Eng. Abstr.) **(Rum)**

[The hypotensive action and side effects of the carboanhydrase inhibitor dorzolamide hydrochloride] Egorov AE. **Vestn Oftalmol** 1996 Apr–Jun;112(2):3–4 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Stevens-Johnson syndrome induced by methazolamide treatment. Shirato S, et al. **Arch Ophthalmol** 1997 Apr; 115(4):550–3

Stevens-Johnson syndrome associated with methazolamide treatment reported in two Japanese-American women. Flach AJ, et al. **Ophthalmology** 1995 Nov;102(11):1677–80

Methazolamide-induced delirium. Cyr M, et al. **Pharmacotherapy** 1997 Mar–Apr;17(2):387–9

BLOOD

Low level determination of dorzolamide and its de-ethylated metabolite in human plasma by liquid chromatography with atmospheric pressure chemical ionization tandem mass spectrometry. Constanzer ML, et al. **J Pharm Biomed Anal** 1997 Apr;15(7):1001–8

CHEMICAL SYNTHESIS

Synthesis and investigation of inhibition effects of new carbonic anhydrase inhibitors. Arslan O, et al. **Bioorg Med Chem** 1997 Mar;5(3):515–8

Synthesis and characterization of metal(II)-8-quinolinsulfonamidato (sa-) complexes (M = Co, Ni, Cu, and Zn). Crystal structure of [Zn(sa)2(NH3)]NH3 complex. Carbonic anhydrase inhibitory properties. Sumalan SL, et al. **J Inorg Biochem** 1996 Apr;62(1):31–9

CHEMISTRY

Catalysis and inhibition of human carbonic anhydrase IV. Baird TT Jr, et al. **Biochemistry** 1997 Mar 4;36(9):2669–78

Cloning, sequencing, and recombinant expression of the porcine inhibitor of carbonic anhydrase: a novel member of the transferrin family. Wuebbens MW, et al. **Biochemistry** 1997 Apr 8;36(14):4327–36

The polymorphic drug substances of the European pharmacopoeia. Part 9. Physicochemical properties and crystal structure of acetazolamide crystal forms. Griesser UJ, et al. **J Pharm Sci** 1997 Mar;86(3):352–8

Virtual combinatorial libraries: dynamic generation of molecular and supramolecular diversity by self-assembly [published erratum appears in Proc Natl Acad Sci U S A 1997 Jul 22;94(15):8272] Huc I, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2106–10

CONTRAINDICATIONS

Three rules of thumb [letter] Newcomb RD. **J Am Optom Assoc** 1996 Nov;67(11):645, 706

DIAGNOSTIC USE

Acetazolamide affects performance on the Nagel II anomaloscope. Leys MJ, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S193–7

PHARMACOKINETICS

Nonlinear dorzolamide pharmacokinetics in rats: concentration-dependent erythrocyte distribution and drug-metabolite displacement interaction. Wong BK, et al. **Drug Metab Dispos** 1996 Jun;24(6):659–63

Ocular absorption, blood levels, and excretion of dorzolamide, a topically active carbonic anhydrase inhibitor. Maren TH, et al. **J Ocul Pharmacol Ther** 1997 Feb;13(1):23–30

Penetration into the anterior chamber via the conjunctival/scleral pathway. Schoenwald RD, et al. **J Ocul Pharmacol Ther** 1997 Feb;13(1):41–59

PHARMACOLOGY

Effects of dorzolamide hydrochloride 2% on the retinal circulation. Grunwald JE, et al. **Acta Ophthalmol Scand** 1997 Jun;75(3):236–8

Comparison of dorzolamide and acetazolamide as suppressors of aqueous humor flow in humans. Maus TL, et al. **Arch Ophthalmol** 1997 Jan;115(1):45–9

Effect of carbonic anhydrase inhibition and acetoacetate on anaplerotic pyruvate carboxylase activity in cultured rat astrocytes. Hazen SA, et al. **Dev Neurosci** 1997;19(2):162–71

Gastric PCO2 tonometry is independent of carbonic anhydrase inhibition. Kolkman JJ, et al. **Dig Dis Sci** 1997 Jan;42(1):99–102

Dorzolamide. A review of its pharmacology and therapeutic potential in the management of glaucoma and ocular hypertension. Balfour JA, et al. **Drugs Aging** 1997 May; 10(5):384–403 (81 ref.)

Central chemoreception in the region of the ventral respiratory group in the rat. Nattie EE, et al. **J Appl Physiol** 1996 Nov;81(5):1987–95

Novel aromatic/heterocyclic sulfonamides and their metal complexes as inhibitors of carbonic anhydrase isozymes I, II and IV. Supuran CT, et al. **J Enzyme Inhib** 1997 Apr; 12(1):37–51

Acetazolamide and CO2: acute effects on cerebral and retrobulbar hemodynamics. Harris A, et al. **J Glaucoma** 1996 Feb;5(1):39–45

The preclinical pharmacology of dorzolamide hydrochloride, a topical carbonic anhydrase inhibitor. Sugrue MF. **J Ocul Pharmacol Ther** 1996 Fall;12(3):363–76 (41 ref.)

Carbonic anhydrase activators. 3: structure-activity correlations for a series of isozyme II activators. Clare BW, et al. **J Pharm Sci** 1994 Jun;83(6):768–73

Renal and cerebrospinal fluid formation pharmacology of a high molecular weight carbonic anhydrase inhibitor. Maren TH, et al. **J Pharmacol Exp Ther** 1997 Jan; 280(1):98–104

Continuous intraocular pressure measurement by telemetry in alpha-chymotrypsin-induced glaucoma model in the rabbit: effects of timolol, dorzolamide, and epinephrine. Percicot CL, et al. **J Pharmacol Toxicol Methods** 1996 Dec; 36(4):223–8

Brain pH responses to acetazolamide and hypercapnia in cats. Kohshi K, et al. **Neurol Med Chir (Tokyo)** 1997 Apr; 37(4):313–8; discussion 318–9

Effect of acetazolamide and melittin on polarization of the frog gastric mucosa proton pump. Carrasquer G, et al. **Proc Soc Exp Biol Med** 1996 Dec;213(3):258–61

Laryngeal CO2 receptors: influence of systemic PCO2 and carbonic anhydrase inhibition. Coates EL, et al. **Respir Physiol** 1996 Apr–May;104(1):53–61

Dissociation of vasoreactivity to acetazolamide and hypercapnia. Comparative study in patients with chronic occlusive major cerebral artery disease. Kazumata K, et al. **Stroke** 1996 Nov;27(11):2052–8

THERAPEUTIC USE

Surgical vs medical management of chronic open-angle glaucoma. Stewart WC, et al. **Am J Ophthalmol** 1996 Dec; 122(6):767–74

A clinical trial of MK-507, Trusopt, for raised intraocular pressure—the Australian experience. Gillies WE, et al. **Aust N Z J Ophthalmol** 1996 May;24(2):111–5

The efficacy of dorzolamide, a topical carbonic anhydrase inhibitor, in combination with timolol in the treatment of patients with open-angle glaucoma and ocular hypertension. Hartenbaum D. **Clin Ther** 1996 May–Jun; 18(3):460–5

New medical therapies for glaucoma. Drake MV. **Int Ophthalmol Clin** 1996 Spring;36(2):53–60 (29 ref.)

A treatment for tardive dyskinesia and some other extrapyramidal symptoms. Cowen MA, et al. **J Clin Psychopharmacol** 1997 Jun;17(3):190–3

Trusopt, a topical carbonic anhydrase inhibitor. Donohue EK, et al. **J Glaucoma** 1996 Feb;5(1):68–74 (79 ref.)

Acetazolamide treatment of CME in patients with uveitis [letter; comment] Flach A. **Ophthalmology** 1996 Nov; 103(11):1715–6; discussion 1716–7. Comment on: Ophthalmology 1996 Jul;103(7):1054–62; discussion 1062–3.

Acetazolamide treatment of CME in patients with uveitis [letter; comment] Rho D. **Ophthalmology** 1996 Nov; 103(11):1717; discussion 1717–8. Comment on: Ophthalmology 1996 Jul;103(7):1054–62; discussion 1062–3.

Additive ocular hypotensive effect of latanoprost and acetazolamide. A short-term study in patients with elevated intraocular pressure. Rulo AH, et al. **Ophthalmology** 1997 Sep;104(9):1503–7

Efficacy of dorzolamide hydrochloride in the management of chronic cystoid macular edema in patients with retinitis pigmentosa. Grover S, et al. **Retina** 1997;17(3):222–31

[Glaucoma. Current problems. Continuing education courses at the Ophthalmologic Clinic of the Eppendorf University Hospital, 9 December 1995] **Klin Monatsbl Augenheilkd** 1996 Feb;208(2 Suppl):1–4 **(Ger)**

[Topical carbonic anhydrase inhibitors for glaucoma] Geyer O, et al. **Harefuah** 1996 May 15;130(10):705–7 (20 ref.) **(Heb)**

[Efficacy of acetazolamide treatment of patients with hypercapnia and superimposed metabolic alkalosis] Prieto de Paula JM, et al. **Rev Clin Esp** 1997 Apr;197(4):237–40 (Eng. Abstr.) **(Spa)**

CARBONIC ANHYDRASE ISOENZYMES see **CARBONATE DEHYDRATASE**

CARBONIC ANHYDRIDE see **CARBON DIOXIDE**

CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE

ANALOGS & DERIVATIVES

Carbonyl cyanide phenylhydrazones as probes of the anionic activator site of the human erythrocyte glutathione adduct transport ATPase. DeLuca DC, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):182–6

A two-gene ABC-type transport system that extrudes Na+ in Bacillus subtilis is induced by ethanol or protonophore. Cheng J, et al. **Mol Microbiol** 1997 Mar;23(6):1107–20

METABOLISM

Role of metal ion free valinomycin-carbonyl cyanide m-chlorophenylhydrazone complex in the enhancement of the rates of gramicidin facilitated net H+, Li+ and Na+ transport across phospholipid vesicular membrane. Prabhananda BS, et al. **Biochim Biophys Acta** 1997 Jan 14; 1323(1):137–44

PHARMACOLOGY

Effect of carbonyl cyanide m-chlorophenylhydrazone (CCCP) on the dimerization of lipoprotein lipase. Park JW, et al. **Biochim Biophys Acta** 1997 Jan 21;1344(2):132–8

Effects of carbonylcyanide-m-chlorophenylhydrazone (CCCP) and acetate on Escherichia coli O157:H7 and K-12: uncoupling versus anion accumulation. Diez-Gonzalez F, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):71–6

CARBONYL CYANIDE META-CHLOROPHENYL HYDRAZONE see **CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE**

CARBONYL CYANIDE P-TRIFLUOROMETHOXYPHENYLHYDRAZONE

PHARMACOLOGY

A mitochondrial uncoupler increases KCa currents but decreases KV currents in pulmonary artery myocytes. Yuan XJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C321–31

IF1 function in situ in uncoupler-challenged ischemic rabbit, rat, and pigeon hearts. Rouslin W, et al. **J Biol Chem** 1996 Sep 27;271(39):23638–41

CARBONYL CYANIDE PARA-TRIFLUOROMETHOXYPHENYLHYDRAZONE see **CARBONYL CYANIDE P-TRIFLUOROMETHOXYPHENYLHYDRAZONE**

CARBOPLATIN

ADMINISTRATION & DOSAGE

Phase I study of chemotherapy with carboplatin, epirubicin, and escalating dose of VP-16 with G-CSF support in extensive small cell lung cancer. Gridelli C, et al. **Am J Clin Oncol** 1996 Dec;19(6):589–91

Successful treatment with ranimustine and carboplatin for recurrent intraocular retinoblastoma with vitreous seeding. Ishii E, et al. **Am J Clin Oncol** 1996 Dec;19(6):562–5

Phase II trial of dose intensification with cisplatin and carboplatin plus vindesine in patients with inoperable non-small cell lung cancer. Nakanishi Y, et al. **Am J Clin Oncol** 1997 Aug;20(4):393–7

Intravenous carboplatin for recurrent gliomas. A dose-escalating phase II trial. Prados MD, et al. **Am J Clin Oncol** 1996 Dec;19(6):609–12

Carboplatin in the combination chemotherapy of non-seminomatous germ cell tumours [editorial] Horwich A, et al. **Ann Oncol** 1996 Dec;7(10):989–91

Antitumor effect of carboplatin combined with radiation on tumors in mice. Aratani Y, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2535–8

Carboplatin dosing based on measurement of renal function--experience at the Peter MacCallum Cancer Institute. Millward MJ, et al. **Aust N Z J Med** 1996 Jun; 26(3):372–9

A clinical and pharmacokinetic study of the combination of carboplatin and paclitaxel for epithelial ovarian cancer. Siddiqui N, et al. **Br J Cancer** 1997;75(2):287–94

A phase I report of paclitaxel dose escalation combined with a fixed dose of carboplatin in the treatment of head and neck carcinoma. Dunphy FR, et al. **Cancer** 1997 May 15; 79(10):2016–23

A sequential Bayesian algorithm for dose individualisation of carboplatin. Duffull SB, et al. **Cancer Chemother Pharmacol** 1997;39(4):317–26

A Bayesian dosing method for carboplatin given by continuous infusion for 120 h. Guillet P, et al. **Cancer Chemother Pharmacol** 1997;40(2):143–9

Interstitial delivery of carboplatin via biodegradable polymers is effective against experimental glioma in the rat. Olivi A, et al. **Cancer Chemother Pharmacol** 1996; 39(1-2):90–6

Local delivery of chemotherapy and concurrent external beam radiotherapy prolongs survival in metastatic brain tumor models. Ewend MG, et al. **Cancer Res** 1996 Nov 15;56(22):5217–23

Effect of carboplatin based combination chemotherapy on ovarian cancer. Feng Y, et al. **Chin Med J (Engl)** 1996 May;109(5):349–52

Superselective cisplatin (CDDP)-carboplatin (CBDCA) combined infusion for head and neck cancers. Imai S, et al. **Eur J Radiol** 1995 Dec 15;21(2):94–9

Intraperitoneal carboplatin with or without interferon-alpha in advanced ovarian cancer patients with minimal residual disease at second look: a prospective randomized trial of 111 patients. G.O.N.O. Gruppo Oncologic Nord Ovest. Bruzzone M, et al. **Gynecol Oncol** 1997 Jun;65(3):499–505

Dosage individualization of carboplatin and etoposide based

on pharmacokinetic investigations. Jaehde U. **Int J Clin Pharmacol Ther** 1997 Feb;35(2):76–8 (19 ref.)

Phase I study of paclitaxel on a 3-hour schedule followed by carboplatin in untreated patients with stage IV non-small cell lung cancer. Rowinsky EK, et al. **Invest New Drugs** 1997;15(2):129–38

Pharmacokinetic and phase I trial of intraperitoneal carboplatin and cyclosporine in refractory ovarian cancer patients. Chambers SK, et al. **J Clin Oncol** 1997 May; 15(5):1945–52

Selecting patients with cisplatin-resistant germ cell tumors for high-dose chemotherapy [editorial; comment] Motzer RJ. **J Clin Oncol** 1996 Oct;14(10):2625–6. Comment on: J Clin Oncol 1996 Oct;14(10):2631–7. Comment on: J Clin Oncol 1996 Oct;14(10):2638–45.

Pharmacokinetic study of carboplatin given on a 5-day intravenous schedule. Ando Y, et al. **Jpn J Cancer Res** 1997 May;88(5):517–21

Radiosensitization with low-dose carboplatin enhances pain palliation in radioisotope therapy with strontium-89. Sciuto R, et al. **Nucl Med Commun** 1996 Sep;17(9):799–804

Paclitaxel and carboplatin in metastatic non-small cell lung cancer: preliminary results of a phase I study. Belani CP, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):19–21

Carboplatin plus paclitaxel in the first-line treatment of advanced ovarian cancer: preliminary results of a phase I study. Lhommé C, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):48–54

Preliminary results of a phase I/II clinical trial of paclitaxel and carboplatin in non-small cell lung cancer. Natale RB. **Semin Oncol** 1996 Oct;23(5 Suppl 12):2–6

Paclitaxel with carboplatin for the treatment of ovarian cancer. Neijt JP, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):2–4 (12 ref.)

Paclitaxel and carboplatin for advanced breast cancer. Perez EA, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):41–5 (38 ref.)

Etoposide phosphate infusion with therapeutic drug monitoring in combination with carboplatin dosed by area under the curve: a cancer research campaign phase I/II committee study. Porter D, et al. **Semin Oncol** 1996 Dec; 23(6 Suppl 13):34–44

[Dose individualization for carboplatin in cancer chemotherapy] Oudard S, et al. **Bull Cancer** 1997 Jun; 84(6):675–7 (Eng. Abstr.) **(Fre)**

[Optimizing the dosage (editorial)] Heinzl S. **Med Monatsschr Pharm** 1997 Jan;20(1):1 **(Ger)**

[Trial of radiation and cisplatin, carboplatin combination chemotherapy for advanced cancer (W-platinum chemoradiotherapy] Kato M, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):723–7 (Eng. Abstr.) **(Jpn)**

[Clinical effect of intra-arterial carboplatin-combined chemotherapy for advanced uterine cervical cancer and increased tissue platinum levels with Lipo PGE1 administration before chemotherapy] Takeda S, et al. **Gan To Kagaku Ryoho** 1996 Oct;23(12):1697–703 (Eng. Abstr.) **(Jpn)**

[Two cases of adenosquamous cell carcinoma of advanced cervical cancer treated by carboplatin-based chemotherapy with peripheral blood stem cell autotransplant] Takeda S, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):1013–7 (Eng. Abstr.) **(Jpn)**

[Intraperitoneal administration of carboplatin loaded alpha-tricalcium phosphate (alpha-TCP) particles in rats bearing abdominal carcinomatosis] Ueda T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1512–5 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Administration of Ethyol (amifostine) to a child with medulloblastoma to ameliorate hematological toxicity of high dose carboplatin. Borsi JD, et al. **Anticancer Drugs** 1996 Jan;7(1):121–6

Efficacy of carboplatin plus primary prophylactic filgrastim (granulocyte colony stimulating factor) in relapsed ovarian cancer: a study of the Gynecologic Oncology Group of the Comprehensive Cancer Center Limburg. Wils JA, et al. **Anticancer Drugs** 1997 Jun;8(5):432–5

Arterial occlusion in patients with peripheral vascular disease treated with platinum-based regimens for lung cancer. Mathews J, et al. **Cancer Chemother Pharmacol** 1997; 40(1):19–22

Clinical effects of amifostine (Ethyol) in patients treated with carboplatin. Budd GT, et al. **Eur J Cancer** 1996;32A Suppl 4:S43–5 (8 ref.)

Control of carboplatin-induced emesis with a fixed low dose of granisetron (0.5 mg) plus dexamethasone. Markman M, et al. **Gynecol Oncol** 1996 Mar;60(3):435–7

Low-dose intravenous ondansetron (8 mg) plus dexamethasone: an effective regimen for the control of carboplatin-induced emesis. Markman M, et al. **J Cancer Res Clin Oncol** 1997;123(4):224–6

A randomised, double-blind, parallel-group study to compare the efficacy and safety of ondansetron (GR38032F) plus dexamethasone with metoclopramide plus dexamethasone in the prophylaxis of nausea and emesis induced by carboplatin chemotherapy. du Bois A, et al. **Oncology** 1997 Jan-Feb;54(1):7–14

The relationship between parameters of serotonin metabolism and emetogenic potential of platinum-based chemotherapy regimens. du Bois A, et al. **Support Care Cancer** 1997 May; 5(3):212–8

Carboplatin-induced immune hemolytic anemia. Marani TM, et al. **Transfusion** 1996 Nov-Dec;36(11-12):1016–8

[A case report of tongue cancer presenting with SSD type brain embolism induced by chemotherapy with CBDCA and 5-FU] Itoh H, et al. **Gan To Kagaku Ryoho** 1997 Mar; 24(5):597–9 (Eng. Abstr.) **(Jpn)**

ANALOGS & DERIVATIVES

Zeniplatin in advanced malignant melanoma and renal cancer: phase II studies with unexpected nephrotoxicity. Aamdal S, et al. **Cancer Chemother Pharmacol** 1997; 40(5):439–43

ANTAGONISTS & INHIBITORS

Antagonistic effect of amphotericin B on carboplatin antitumor activity in human osteosarcoma xenografts. Crnalic S, et al. **Anticancer Drugs** 1996 Jun;7(4):489–92

CHEMISTRY

Stability study of carboplatin in aqueous solution and under illumination by high performance liquid chromatography. Carballar R, et al. **Biomed Chromatogr** 1997 Mar-Apr; 11(2):119–20

IMMUNOLOGY

A modified, prolonged desensitization protocol in carboplatin allergy. Goldberg A, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):841–3

METABOLISM

Unlocking the blood-brain barrier: a role for RMP-7 in brain tumor therapy. Elliott PJ, et al. **Exp Neurol** 1996 Oct; 141(2):214–24

Formation of platinum-DNA adducts in pediatric patients receiving carboplatin. Tonda ME, et al. **Pharmacotherapy** 1996 Jul-Aug;16(4):631–7

PHARMACOKINETICS

How to predict carboplatin clearance from standard morphological and biological characteristics in obese patients. Bénézet S, et al. **Ann Oncol** 1997 Jun;8(6):607–9

Penetration of chemotherapy into vitreous is increased by cryotherapy and cyclosporine in rabbits. Wilson TW, et al. **Arch Ophthalmol** 1996 Nov;114(11):1390–5

Amifostine (Ethyol): pharmacokinetic and pharmacodynamic effects in vivo. van der Vijgh WJ, et al. **Eur J Cancer** 1996;32A Suppl 4:S26–30 (21 ref.)

Controlled modulation of BBB permeability using the bradykinin agonist, RMP-7. Bartus RT, et al. **Exp Neurol** 1996 Nov;142(1):14–28

Dosage individualization of carboplatin and etoposide based on pharmacokinetic investigations. Jaehde U. **Int J Clin Pharmacol Ther** 1997 Feb;35(2):76–8 (19 ref.)

Re: prediction of carboplatin clearance from standard morphological and biological patient characteristics [letter; comment] [see comments] Fujiwara Y, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):260–2. Comment on: J Natl Cancer Inst 1995 Apr 19;87(8):573–80. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):968–70.

Re: prediction of carboplatin clearance from standard morphological and biological patient characteristics [letter; comment] Minami H, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):968–70. Comment on: J Natl Cancer Inst 1997 Feb 5;89(3):260–2.

Steroids decrease uptake of carboplatin in rat gliomas—uptake improved by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **J Neurooncol** 1997 Sep;34(2):131–8

Pharmacokinetic study of carboplatin given on a 5-day intravenous schedule. Ando Y, et al. **Jpn J Cancer Res** 1997 May;88(5):517–21

Pharmacokinetics of carboplatin and etoposide in a haemodialysis patient with Merkel-cell carcinoma. Suzuki S, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):137–40

Enhanced tumor uptake of carboplatin and survival in glioma-bearing rats by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **Neurosurgery** 1996 Jul;39(1):125–33; discussion 133–4

PHARMACOLOGY

The effect of intermittent-release intraperitoneal chemotherapy on wound healing. Hopkins MP, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):819–23; discussion 823–5

Oxaliplatin, tetraplatin, cisplatin, and carboplatin: spectrum of activity in drug-resistant cell lines and in the cell lines of the National Cancer Institute's Anticancer Drug Screen panel. Rixe O, et al. **Biochem Pharmacol** 1996 Dec 24; 52(12):1855–65

Influence of single and multiple doses of amifostine on the efficacy and the pharmacokinetics of carboplatin in mice. Korst AE, et al. **Br J Cancer** 1997;75(10):1439–46

Aphidicolin markedly increases the platinum sensitivity of cells from primary ovarian tumours. Sargent JM, et al. **Br J Cancer** 1996 Dec;74(11):1730–3

In vitro phase II comparison of the cytotoxicity of a novel platinum analog, nedaplatin (254-S), with that of cisplatin and carboplatin against fresh, human ovarian cancers. Alberts DS, et al. **Cancer Chemother Pharmacol** 1997; 39(6):493–7

Digitonin enhances the efficacy of carboplatin in liver tumour after intra-arterial administration. Lindnér PG, et al. **Cancer Chemother Pharmacol** 1997;40(5):444–8

Potentiation of cisplatin and carboplatin cytotoxicity by amphotericin B in different human ovarian carcinoma and malignant peritoneal mesothelioma cells. Poulain L, et al. **Cancer Chemother Pharmacol** 1997;40(5):385–90

Interleukin-1alpha synergistic in vivo enhancement of cyclophosphamide- and carboplatin-mediated antitumor activity. Yu WD, et al. **Cancer Immunol Immunother** 1997 Aug;44(6):316–22

Determination of the target volume of HeLa cells treated with platinum-195 m radiolabeled cis-diammine(1, 1-cyclobutane-dicarboxylato)-platinum(II); comparison with cis- and trans-diamminedichloroplatinums(II). Akaboshi M, et al. **Nucl Med Biol** 1994 Oct;21(7):953–8

Effect of carboplatin on rat spermatogenesis. Fuse H, et al. **Urol Int** 1996;56(4):219–23

THERAPEUTIC USE

A randomized trial of five versus eight courses of cisplatin or carboplatin in advanced epithelial ovarian carcinoma. A North Thames Ovary Group Study. Lambert HE, et al. **Ann Oncol** 1997 Apr;8(4):327–33

Enhancement of warfarin response in a patient receiving etoposide and carboplatin chemotherapy. Le AT, et al. **Ann Pharmacother** 1997 Sep;31(9):1006–8

Remission of advanced uterine leiomyosarcoma with pulmonary metastases with carboplatin and paclitaxel. Kudelka AP, et al. **Anticancer Drugs** 1996 Nov;7(8):885–9

Optimal duration of whole body hyperthermia when combined with cis-diaminne-1,1-cychlobutane dicarboxylate platinum (II) (carboplatin). Kaneko T, et al. **Anticancer Res** 1997 May-Jun;17(3C):1897–901

Chemotherapy plus local treatment in the management of intraocular retinoblastoma. Murphree AL, et al. **Arch Ophthalmol** 1996 Nov;114(11):1348–56

Local carboplatin and radiation therapy in the treatment of murine transgenic retinoblastoma. Murray TG, et al. **Arch Ophthalmol** 1996 Nov;114(11):1385–9

Randomized trial of carboplatin plus amifostine versus carboplatin alone in patients with advanced solid tumors. Budd GT, et al. **Cancer** 1997 Sep 15;80(6):1134–40

A phase II study of carboplatin as a treatment for children with acute leukemia recurring in bone marrow: a report of the Children's Cancer Group. Ettinger LJ, et al. **Cancer** 1997 Jul 15;80(2):311–6

Lack of carboplatin activity in malignant lymphomas [letter] Balzarotti M, et al. **Eur J Cancer** 1996 Dec;32A(13):2370–1

Remission with carboplatin of paclitaxel resistant primary peritoneal papillary serous carcinoma: case report. Herrada J, et al. **Eur J Gynaecol Oncol** 1997;18(1):39–41

Phase II study: adjuvant single-agent carboplatin therapy for clinical stage I seminoma. Krege S, et al. **Eur Urol** 1997;31(4):405–7

Continued chemosensitivity to cisplatin/carboplatin in ovarian carcinoma despite treatment with multiple prior platinum-based regimens. Markman M, et al. **Gynecol Oncol** 1997 Jun;65(3):434–6

Carboplatin as a radiation sensitizer in locally advanced cervical cancer: a pilot study. Muderspach LI, et al. **Gynecol Oncol** 1997 May;65(2):336–42

Chemotherapy plus sequential hormonal therapy for advanced and recurrent endometrial carcinoma: a phase II study. Pinelli DM, et al. **Gynecol Oncol** 1996 Mar; 60(3):462–7

Simultaneous combination therapy of carboplatin and radiation for patients with carcinoma of the esophagus. Ohno S, et al. **Hepatogastroenterology** 1997 Jan-Feb; 44(13):181–6

Concurrent daily carboplatin and accelerated hyperfractionated thoracic radiotherapy in locally advanced nonsmall cell lung cancer. Kunitoh H, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):103–9

Phase I-II trial of concomitant continuous carboplatin (CBDCA) infusion and radiotherapy in advanced nonsmall cell lung cancer with evaluation for surgery: final report. Trodella L, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):93–101

First-line protracted venous infusion fluorouracil with CisDDP or carboplatin in advanced colorectal cancer. Garcia-Giralt E, et al. **J Infus Chemother** 1996 Summer; 6(3):149–51

Prognostic factors for response to chemotherapy containing platinum derivatives in patients with unresectable non-small cell lung cancer. (NSCLC). Borges M, et al. **Lung Cancer** 1996 Dec;16(1):21–33

Carboplatin as radiosensitizer in non-small cell lung cancer after cisplatin containing chemotherapy. A phase I study of a groupe francais de pneumo-cancerologie (G.F.P.C.). Thomas P, et al. **Lung Cancer** 1997 Aug;18(1):71–81

A phase II study of carboplatin in nasopharyngeal carcinoma. Chi KH, et al. **Oncology** 1997 May-Jun;54(3):203–7

Carboplatin as an anticancer agent for transcatheter arterial chemoembolization in patients with hepatocellular carcinoma. Yamashita F, et al. **Oncology** 1997 Jan-Feb; 54(1):28–33

Treatment of intraocular retinoblastoma with carboplatin and etoposide chemotherapy. Greenwald MJ, et al. **Ophthalmology** 1996 Dec;103(12):1989–97

CARBOPLATIN

Contemporary chemotherapy issues for children with brainstem gliomas. Allen JC, et al. **Pediatr Neurosurg** 1996; 24(2):98–102

Comparison of carboplatin/etoposide/vincristine with cisplatin/etoposide as combination chemotherapy for small cell lung cancer. Kumagai M, et al.
Tokai J Exp Clin Med 1995 Dec;20(4–6):209–14

[A combined radiochemotherapy trial for non-small cell lung cancers: initial results] Livartowski A, et al.
Cancer Radiother 1997;1(2):170–3 (Eng. Abstr.) **(Fre)**

[High-dose carboplatin superselective intraarterial chemotherapy in advanced head and neck cancer] Benazzo M, et al. **Acta Otorhinolaryngol Ital** 1996 Feb;16(1):30–4 (Eng. Abstr.) **(Ita)**

TOXICITY

Hematologic and systemic toxicoses associated with carboplatin administration in cats. Hahn KA, et al.
Am J Vet Res 1997 Jun;58(6):677–9

Interstitial delivery of carboplatin via biodegradable polymers is effective against experimental glioma in the rat. Olivi A, et al. **Cancer Chemother Pharmacol** 1996; 39(1–2):90–6

Dose response and time course of carboplatin-induced micronucleated polychromatic erythrocytes in the cat: implications for combination carboplatin chemotherapy. Hahn KA, et al. **Chemotherapy** 1997 Jul–Aug;43(4):282–7

Norepinephrine protects mice from acute lethal doses of carboplatin. Maestroni GJ, et al. **Exp Hematol** 1997 Jun; 25(6):491–4

Evoked-potential thresholds and cubic distortion product otoacoustic emissions in the chinchilla following carboplatin treatment and noise exposure. Jock BM, et al. **Hear Res** 1996 Jul;96(1–2):179–90

Selective inner hair cell loss does not alter distortion product otoacoustic emissions. Trautwein P, et al. **Hear Res** 1996 Jul;96(1–2):71–82

Effects of interleukin-11 on carboplatin-induced thrombocytopenia in rats and in combination with stem cell factor. Yonemura Y, et al. **Int J Hematol** 1997 Jun; 65(4):397–404

Protective effect of recombinant human leukemia inhibitory factor against thrombocytopenia in carboplatin-treated mice. Akiyama Y, et al. **Jpn J Cancer Res** 1997 Jun; 88(6):584–9

Carboplatin-induced micronuclei formation in non-neuronal cells of rat foetal dorsal root ganglia cultured in vitro and comparison with another anticancer drug—cisplatin. Jirsová K, et al. **Sb Lek** 1996;97(3):331–42

CARBOPROST

ADMINISTRATION & DOSAGE

A comparative study of the efficacy and safety of synthetic prostaglandin E2 derivative and 15-methyl prostaglandin F2 alpha in the termination of midtrimester pregnancy. Biswas A, et al. **J Indian Med Assoc** 1996 Aug;94(8):292–3

[A phase III multicentre study on medical termination of early pregnancy with two regimens of mifepristone followed by PG05] Sang G, et al.
Chung Hua I Hsueh Tsa Chih 1996 May;76(5):325–30 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

A randomized controlled study of prostaglandin 15-methyl F2 alpha compared with syntometrine for prophylactic use in the third stage of labour. Chua S, et al.
Aust N Z J Obstet Gynaecol 1995 Nov;35(4):413–6

CARBOXIN

PHARMACOLOGY

Highly potent oxathiin carboxanilide derivatives with efficacy against nonnucleoside reverse transcriptase inhibitor-resistant human immunodeficiency virus isolates. Buckheit RW Jr, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):831–7

CARBOXY-LYASES

ANALYSIS

Simple high-performance liquid chromatographic method for assaying cysteinesulfinic acid decarboxylase activity in rat tissue. Ide T. **J Chromatogr B Biomed Appl** 1997 Jul 4; 694(2):325–32

ANTAGONISTS & INHIBITORS

Pharmacodynamics of benserazide assessed by its effects on endogenous and exogenous levodopa pharmacokinetics. Dingemanse J, et al. **Br J Clin Pharmacol** 1997 Jul; 44(1):41–8

BIOSYNTHESIS

Molecular characterization of an inducible p-coumaric acid decarboxylase from Lactobacillus plantarum: gene cloning, transcriptional analysis, overexpression in Escherichia coli, purification, and characterization. Cavin JF, et al.
Appl Environ Microbiol 1997 May;63(5):1939–44

Chaperonin-mediated assembly of wild-type and mutant subunits of human propionyl-CoA carboxylase expressed in Escherichia coli. Kelson TL, et al. **Hum Mol Genet** 1996 Mar;5(3):331–7

Inducible overexpression of oat arginine decarboxylase in transgenic tobacco plants. Masgrau C, et al. **Plant J** 1997 Mar;11(3):465–73

Expression of arginine decarboxylase in seedlings of indica rice (Oryza sativa L.) cultivars as affected by salinity stress. Chattopadhyay MK, et al. **Plant Mol Biol** 1997 Jun; 34(3):477–83

BLOOD

Phospholipid metabolism of serine in Plasmodium-infected erythrocytes involves phosphatidylserine and direct serine decarboxylation. Elabbadi N, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):435–45

CHEMISTRY

Subunit structure of L-aspartate beta-decarboxylase from Alcaligenes faecalis. Bowers WF, et al. **Biochemistry** 1970 Jun 23;9(13):2620–5

DEFICIENCY

A new case of malonyl coenzyme A decarboxylase deficiency presenting with cardiomyopathy. Yano S, et al.
Eur J Pediatr 1997 May;156(5):382–3

Magnetic resonance imaging and spectroscopy of the brain in propionic acidemia: clinical and biochemical considerations. Bergman AJ, et al. **Pediatr Res** 1996 Sep; 40(3):404–9 (30 ref.)

GENETICS

Cloning and characterization of a locus encoding an indolepyruvate decarboxylase involved in indole-3-acetic acid synthesis in Erwinia herbicola. Brandl MT, et al.
Appl Environ Microbiol 1996 Nov;62(11):4121–8

Molecular characterization of an inducible p-coumaric acid decarboxylase from Lactobacillus plantarum: gene cloning, transcriptional analysis, overexpression in Escherichia coli, purification, and characterization. Cavin JF, et al.
Appl Environ Microbiol 1997 May;63(5):1939–44

Sequence analysis of the gene encoding a novel L-2,4-diaminobutyrate decarboxylase of Acinetobacter baumannii: similarity to the group II amino acid decarboxylases. Ikai H, et al. **Arch Microbiol** 1996 Aug; 166(2):128–31

Effect of chelating agents and respiratory inhibitors on regulation of the cadA gene in Escherichia coli. Reams SG, et al. **Arch Microbiol** 1997 Apr;167(4):209–16

Overexpression of cysteine sulfinic acid decarboxylase stimulated by hepatocarcinogenesis results in autoantibody production in rats. Kishimoto T, et al. **Cancer Res** 1996 Nov 15;56(22):5230–7

Sequence of a gene cluster from Malonomonas rubra encoding components of the malonate decarboxylase Na+ pump and evidence for their function. Berg M, et al.
Eur J Biochem 1997 Apr 1;245(1):103–15

Sequence of a gene cluster from Klebsiella pneumoniae encoding malonate decarboxylase and expression of the enzyme in Escherichia coli. Hoenke S, et al.
Eur J Biochem 1997 Jun 1;246(2):530–8

Genomic organization of purK and purE in Brevibacterium ammoniagenes ATCC 6872: purE locus provides a clue for genomic evolution. Chung SO, et al.
FEMS Microbiol Lett 1996 Apr 1;137(2–3):265–8

Cloning and sequencing of the gene encoding alpha-acetolactate decarboxylase from Leuconostoc oenos. Garmyn D, et al. **FEMS Microbiol Lett** 1996 Dec 15; 145(3):445–50

Identification and sequence analysis of Sulfolobus solfataricus purE and purK genes. Sørensen IS, et al.
FEMS Microbiol Lett 1997 Sep 15;154(2):173–80

Chaperonin-mediated assembly of wild-type and mutant subunits of human propionyl-CoA carboxylase expressed in Escherichia coli. Kelson TL, et al. **Hum Mol Genet** 1996 Mar;5(3):331–7

Regulation of yeast phospholipid biosynthetic genes in phosphatidylserine decarboxylase mutants. Griač P.
J Bacteriol 1997 Sep;179(18):5843–8

Characterization of a second lysine decarboxylase isolated from Escherichia coli. Kikuchi Y, et al. **J Bacteriol** 1997 Jul;179(14):4486–92

The Escherichia coli flagellar transcriptional activator flhD regulates cell division through induction of the acid response gene cadA. Prüss BM, et al. **J Bacteriol** 1997 Jun; 179(11):3818–21

Propionyl-CoA carboxylase from Streptomyces coelicolor A3(2): cloning of the gene encoding the biotin-containing subunit. Bramwell H, et al. **Microbiology** 1996 Mar;142 (Pt 3):649–55

Role of NRF-1 in bidirectional transcription of the human GPAT-AIRC purine biosynthesis locus. Chen S, et al.
Nucleic Acids Res 1997 May 1;25(9):1809–16

Sequence analysis of the Candida albicans ADE2 gene and physical separation of the two functionally distinct domains of the phosphoribosylaminoimidazole carboxylase.
Schmuke JJ, et al. **Yeast** 1997 Jun 30;13(8):769–76

Sequence analysis of Candida albicans phosphoribosyl-aminoimidazole carboxylase (ADE2) gene.
Tsang WK, et al. **Yeast** 1997 Jun 15;13(7):673–6

ISOLATION & PURIFICATION

Purification and properties of alpha-amino-beta-carboxymuconate-epsilon-semialdehyde decarboxylase (ACMSD), key enzyme of niacin synthesis from tryptophan, from hog kidney. Egashira Y, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Jun; 42(3):173–83

Isolation and comparative analysis of diaminopimelate decarboxylase from Streptococcus bovis and Bacillus subtilis. Kalcheva EO, et al.
Mol Gen Mikrobiol Virusol 1997;(1):34–7

Purification and characterization of acetone carboxylase from Xanthobacter strain Py2. Sluis MK, et al.
Proc Natl Acad Sci U S A 1997 Aug 5;94(16):8456–61

METABOLISM

Cloning and characterization of a locus encoding an indolepyruvate decarboxylase involved in indole-3-acetic acid synthesis in Erwinia herbicola. Brandl MT, et al.
Appl Environ Microbiol 1996 Nov;62(11):4121–8

Overexpression of arginine decarboxylase in transgenic plants. Burtin D, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):331–7

Post-translational processing of the phosphatidylserine decarboxylase gene product in Chinese hamster ovary cells. Kuge O, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):33–8

Occurrence of a novel L-2,4-diaminobutyrate decarboxylase activity in some species of Enterobacteriaceae, and purification and characterization of the enzymes of Enterobacter aerogenes and Serratia marcescens. Yamamoto S, et al. **Biol Pharm Bull** 1996 Oct; 19(10):1298–303

Biosynthesis of prothrombin: intracellular localization of the vitamin K-dependent carboxylase and the sites of gamma-carboxylation. Bristol JA, et al. **Blood** 1996 Oct 1;88(7):2585–93

Cellular localisation by immunolabelling and transmission electron microscopy of oxaloacetate decarboxylase or its individual subunits synthesised in Escherichia coli. Di Berardino M, et al. **FEMS Microbiol Lett** 1996 Feb 1; 136(1):31–7

An oxaloacetate decarboxylase homologue protein influences the intracellular survival of Legionella pneumophila. Jain B, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):273–9

The Saccharomyces cerevisiae mevalonate diphosphate decarboxylase is essential for viability, and a single Leu-to-Pro mutation in a conserved sequence leads to thermosensitivity. Bergès T, et al. **J Bacteriol** 1997 Aug; 179(15):4664–70

Protein phosphorylation and taurine biosynthesis in vivo and in vitro. Tang XW, et al. **J Neurosci** 1997 Sep 15; 17(18):6947–51

Studies on the biosynthesis of bialaphos. Biochemical mechanism of C-P bond formation: discovery of phosphonopyruvate decarboxylase which catalyzes the formation of phosphonoacetaldehyde from phosphonopyruvate. Nakashita H, et al. **Jpn J Antibiot** 1997 Mar;50(3):212–9

Phosphatidylserine decarboxylases: pyruvoyl-dependent enzymes from bacteria to mammals. Dowhan W.
Methods Enzymol 1997;280:81–8

Internal pH crisis, lysine decarboxylase and the acid tolerance response of Salmonella typhimurium. Park YK, et al.
Mol Microbiol 1996 May;20(3):605–11

Specificity of cysteine sulfinate decarboxylase (CSD) for sulfur-containing amino-acids. Do KQ, et al.
Neurochem Int 1996 Apr;28(4):363–71

Immunocytochemical localization of cysteine sulfinate decarboxylase in astrocytes in the cerebellum and hippocampus: a quantitative double immunofluorescence study with glial fibrillary acidic protein and S-100 protein. Reymond I, et al. **Neuroscience** 1996 Nov;75(2):619–33

CARBOXYBENZYL PENICILLIN see **CARBENICILLIN**

CARBOXYCELLULOSE see **CELLULOSE, OXIDIZED**

CARBOXYDISMUTASE see **RIBULOSEBIPHOSPHATE CARBOXYLASE**

1-CARBOXYGLUTAMIC ACID

Regulation and regulatory role of gamma-carboxyglutamic acid containing clotting factors. Kalafatis M, et al.
Crit Rev Eukaryot Gene Expr 1996;6(1):87–101 (80 ref.)

The entire gamma-carboxyglutamic acid- and helical stack-domains of human coagulation factor IX are required for optimal binding to its endothelial cell receptor. Prorok M, et al. **Int J Pept Protein Res** 1996 Sep;48(3):281–5

Primary structure and tissue distribution of two novel proline-rich gamma-carboxyglutamic acid proteins. Kulman JD, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9058–62

Properties of a recombinant chimeric protein in which the gamma-carboxyglutamic acid and helical stack domains of human anticoagulant protein C are replaced by those of human coagulation factor VII. Geng JP, et al.
Thromb Haemost 1997 May;77(5):926–33

ANALYSIS

Requirement of gamma-carboxyglutamic acid residues for the biological activity of Gas6: contribution of endogenous Gas6 to the proliferation of vascular smooth muscle cells. Nakano T, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):387-92

BIOSYNTHESIS

Identification of a vitamin K-dependent carboxylase in the venom duct of a Conus snail. Stanley TB, et al. **FEBS Lett** 1997 Apr 21;407(1):85-8

CHEMISTRY

Refinement of the NMR solution structure of the gamma-carboxyglutamic acid domain of coagulation factor IX using molecular dynamics simulation with initial Ca2+ positions determined by a genetic algorithm. Li L, et al. **Biochemistry** 1997 Feb 25;36(8):2132-8

Three-dimensional structure of a gamma-carboxyglutamic acid-containing conotoxin, conantokin G, from the marine snail Conus geographus: the metal-free conformer. Rigby AC, et al. **Biochemistry** 1997 Jun 10;36(23):6906-14

Role of modified glutamic acid in the helical structure of conantokin-T. Lin CH, et al. **FEBS Lett** 1997 Apr 28; 407(2):243-8

Computational studies of human prothrombin fragment 1, the Gla domain of factor IX and several biological interesting mutants. Li L, et al. **Haemostasis** 1996;26 Suppl 1:54-9

Influence of the gamma-carboxyglutamic acid-rich domain and hydrophobic stack of factor VIIa on tissue factor binding. Persson E. **Haemostasis** 1996;26 Suppl 1:31-4

A theoretical model for the Gla-TSR-EGF-1 region of the anticoagulant cofactor protein S: from biostructural pathology to species-specific cofactor activity. Villoutreix BO, et al. **J Comput Aided Mol Des** 1997 May;11(3):293-304

gamma-Carboxyglutamic acids 36 and 40 do not contribute to human factor IX function. Gillis S, et al. **Protein Sci** 1997 Jan;6(1):185-96

METABOLISM

Highly conserved residue arginine-15 is required for the Ca2+-dependent properties of the gamma-carboxyglutamic acid domain of human anticoagulation protein C and activated protein C. Thariath A, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):309-15

The propeptide of the vitamin K-dependent carboxylase substrate accelerates formation of the gamma-glutamyl carbanion intermediate. Li S, et al. **Biochemistry** 1997 May 27;36(21):6384-90

URINE

Changes in serum osteocalcin, plasma phylloquinone, and urinary gamma-carboxyglutamic acid in response to altered intakes of dietary phylloquinone in human subjects [see comments] Sokoll LJ, et al. **Am J Clin Nutr** 1997 Mar; 65(3):779-84. Comment in: Am J Clin Nutr 1997 Mar;65(3):883-4.

Nutritional vitamin K-intake and urinary gamma-carboxyglutamate excretion in the rat. Craciun AM, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):44-50

CARBOXYHEMOGLOBIN

ANALYSIS

Carboxyhemoglobin concentrations during desflurane and isoflurane closed-circuit anesthesia. Hendrickx JF, et al. **Acta Anaesthesiol Belg** 1996;47(2):67-72

Carboxyhemoglobin levels in a series of automobile fires. Death due to crash or fire? Wirthwein DP, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):117-23

Chlorodibromomethane metabolism to bromide and carbon monoxide in rats. Pankow D, et al. **Arch Toxicol** 1997; 71(4):203-10

Maternal smoking and fetal carboxyhaemoglobin and blood gas levels [letter; comment] Vreman HJ, et al. **Br J Obstet Gynaecol** 1996 Nov;103(11):1171-2. Comment on: Br J Obstet Gynaecol 1996 Jan;103(1):78-82.

Evaluation of post-mortem oxymetry with reference to the causes of death. Maeda H, et al. **Forensic Sci Int** 1997 Jun 23;87(3):201-10

Evaluation of post-mortem oxymetry in fire victims. Maeda H, et al. **Forensic Sci Int** 1996 Aug 15;81(2-3):201-9

Estimation of carboxyhemoglobin concentrations in thermo-coagulated blood on a CO-oximeter system: an experimental study. Oritani S, et al. **Forensic Sci Int** 1996 Dec 27;83(3):211-8

Methylene chloride, carboxyhemoglobin and cardiac risk [letter; comment] Kales SN. **J Occup Environ Med** 1997 Jan;39(1):11-2. Comment on: J Occup Environ Med 1996 Apr;38(4):367-71.

Carboxyhemoglobin levels in methylene chloride-exposed employees [see comments] Soden KJ, et al. **J Occup Environ Med** 1996 Apr;38(4):367-71. Comment in: J Occup Environ Med 1997 Jan;39(1):11-2.

Effects of different exposure times to tobacco smoke intoxication on carboxyhemoglobin and hepatic enzymate activities in mice. Attolini L, et al. **J Pharmacol Toxicol Methods** 1996 Aug;35(4):211-5

Carbon monoxide levels in cell saver salvaged blood exposed to electrocautery during lumbar spine surgery. Slucky AV, et al. **J Spinal Disord** 1996 Oct;9(5):404-8

Carboxyhemoglobin blood concentrations in suicides by fire. Betz P, et al. **Med Sci Law** 1996 Oct;36(4):313-6

Plasmatic ions influence the oxyhemoglobin dissociation curve of patients with chronic obstructive lung disease. Clerbaux T, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):259-64

Rhesus isoimmunization: increased hemolysis during early infancy. Hayde M, et al. **Pediatr Res** 1997 May;41(5):716-21

Methodologic considerations in the interpretation of postmortem carboxyhemoglobin concentrations. Levine B, et al. **Toxicology** 1996 Dec 31;115(1-3):129-34

[The preservability of carboxyhemoglobin in cadaveric blood] Dobroriz AM, et al. **Sud Med Ekspert** 1997 Jul-Sep; 40(3):23 (Eng. Abstr.) **(Rus)**

[Carboxyhemoglobin levels and risk factors of carbon monoxide poisoning in children; (see comments)] Vázquez P, et al. **Med Clin (Barc)** 1997 Jan 11;108(1):1-3 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Jan 11;108(1):16-8. **(Spa)**

CHEMISTRY

The formation of a crosslinked carboxyhemoglobin membrane at an organic-aqueous interface. Eisman JM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May;24(3):185-96

Nanosecond step-scan FTIR spectroscopy of hemoglobin: ligand recombination and protein conformational changes. Hu X, et al. **Biochemistry** 1996 Oct 8;35(40):13001-5

Time-resolved fluorescence of hemoglobin species. Gryczynski Z, et al. **Biophys Chem** 1997 Feb 28; 64(1-3):81-91

Solubility of sickle hemoglobin measured by a kinetic micromethod. Liao D, et al. **Biophys J** 1996 May; 70(5):2442-7

DRUG EFFECTS

Assessing the relevance of rodent data on chemical interactions for health risk assessment purposes: a case study with dichloromethane-toluene mixture. Pelekis M, et al. **Regul Toxicol Pharmacol** 1997 Feb;25(1):79-86

METABOLISM

Carboxyhaemoglobin-corrected oxygen saturation [letter; comment] Caranza R. **Anaesthesia** 1996 Sep;51(9):894. Comment on: Anaesthesia 1996 Apr;51(4):324-6.

High carboxyhemoglobin concentrations occur in swine during desflurane anesthesia in the presence of partially dried carbon dioxide absorbents [see comments] Frink EJ Jr, et al. **Anesthesiology** 1997 Aug;87(2):308-16. Comment in: Anesthesiology 1997 Aug;87(2):202-3.

Carboxyhemoglobin after blood storage [letter] Díaz JE, et al. **Ann Emerg Med** 1997 Aug;30(2):239-40

Effect of a single administration of benzene, toluene or m-xylene on carboxyhaemoglobin elevation and metabolism of dichloromethane in rats. Kim SK, et al. **J Appl Toxicol** 1996 Sep-Oct;16(5):437-44

[Stability and extinction curve of carboxyhemoglobin in preserved blood (letter)] Bascuñana J, et al. **Arch Bronconeumol** 1996 Jan;32(1):50 **(Spa)**

PHARMACOKINETICS

Elimination of CO from the body: an experimental study on the rabbit. Wazawa H, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):258-62

CARBOXYL (ACID) PROTEINASES see **ASPARTIC PROTEINASES**

CARBOXYLASE DEFICIENCY, MULTIPLE see **MULTIPLE CARBOXYLASE DEFICIENCY**

CARBOXYLESTERASES see **CARBOXYLIC ESTER HYDROLASES**

CARBOXYLIC ACIDS

Use of fumonisin B1 to test the intercellular transfer of sphingosine. Inooka S, et al. **Cell Signal** 1996 Sep; 8(6):449-52

ADVERSE EFFECTS

1,2,3-Trithiane-5-carboxylic acid, a first contact allergen from Asparagus officinalis (Liliaceae). Hausen BM, et al. **Am J Contact Dermat** 1996 Mar;7(1):41-6 (32 ref.)

Astringent subqualities in acids. Thomas CJ, et al. **Chem Senses** 1995 Dec;20(6):593-600

Evaluation of human skin irritation by carboxylic acids, alcohols, esters and aldehydes, with nitrocellulose-replica method and closed patch testing. Sato A, et al. **Contact Dermatitis** 1996 Jan;34(1):12-6

ANALYSIS

Determination of carboxylic acid salts in pharmaceuticals by high-performance liquid chromatography after pre-column fluorogenic labelling. Gatti R, et al. **Biomed Chromatogr** 1996 Jan-Feb;10(1):19-24

1-(5-Dimethylamino-1-naphthalenesulphonyl)-(S)-3-aminopyrrolidine (DNS-Apy) as a fluorescence chiral labelling reagent for carboxylic acid enantiomers. al-Kindy S, et al. **Biomed Chromatogr** 1997 May-Jun;11(3):137-42

Fate of fumonisins B1 and B2 in steeped corn kernels. Canela R, et al. **Food Addit Contam** 1996 Jul;13(5):511-7

The natural occurrence of fumonisins in Brazilian corn kernels. Hirooka EY, et al. **Food Addit Contam** 1996 Feb-Mar;13(2):173-83

European intercomparison study for the determination of the fumonisins content in two maize materials. Visconti A, et al. **Food Addit Contam** 1996 Nov-Dec;13(8):909-27

Occurrence of fumonisins and aflatoxins in corn from Thailand. Yoshizawa T, et al. **Food Addit Contam** 1996 Feb-Mar;13(2):163-8

Fumonisin levels in Uruguayan corn products. Piñeiro MS, et al. **J AOAC Int** 1997 Jul-Aug;80(4):825-8

Simultaneous determination of soluble sugars and organic acids as their trimethylsilyl derivatives in apricot fruits by gas-liquid chromatography. Bartolozzi F, et al. **J Chromatogr A** 1997 Jan 10;758(1):99-107

Determination of short-chain aliphatic, oxo- and hydroxy-acids in drinking water at low microgram per liter concentrations. Peldszus S, et al. **J Chromatogr A** 1996 Feb 2;723(1):27-34

2-(5-hydrazinocarbonyl-2-oxazolyl)-5,6-dimethoxybenzothiazole as a precolumn fluorescence derivatization reagent for carboxylic acids in high-performance liquid chromatography and its application to the assay of fatty acids in human serum. Saito M, et al. **J Chromatogr B Biomed Appl** 1995 Dec 15; 674(2):167-75

An oxazine reagent for derivatization of carboxylic acid analytes suitable for liquid chromatographic detection using visible diode laser-induced fluorescence. Rahavendran SV, et al. **J Pharm Biomed Anal** 1996 Oct;15(1):83-98

Fumonisin exposure to Kansans through consumption of corn-based market foods. Rumbeiha WK, et al. **Vet Hum Toxicol** 1997 Aug;39(4):220-5

[Investigation and evaluation of fumonisin contamination of native and imported cereals] Meister U, et al. **Z Lebensm Unters Forsch** 1996 Dec;203(6):528-33 (Eng. Abstr.) **(Ger)**

[Comparison of several fluorescence HPLC methods for fumonisin analysis] Akiyama H, et al. **Eisei Shikenjo Hokoku** 1994;(112):112-7 (Eng. Abstr.) **(Jpn)**

BLOOD

Simultaneous determination of the lactone and carboxylate forms of 7-ethyl-10-hydroxycamptothecin (SN-38), the active metabolite of irinotecan (CPT-11), in rat plasma by high performance liquid chromatography. Kaneda N, et al. **Biol Pharm Bull** 1997 Jul;20(7):815-9

Determination of the lactone and lactone plus carboxylate forms of 9-aminocamptothecin in human plasma by sensitive high-performance liquid chromatography with fluorescence detection. Loos WJ, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):435-41

Simple and versatile high-performance liquid chromatographic method for the simultaneous quantitation of the lactone and carboxylate forms of camptothecin anticancer drugs. Warner DL, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):161-71

CHEMICAL SYNTHESIS

Activity of 2-azaspiro[4.5]decane-6-carboxylates as GABA-uptake inhibitors. Fleischhacker W, et al. **Arch Pharm (Weinheim)** 1996 Mar;329(3):149-54

Cardiovascular effects of some 2-substituted triazolo[1,5-a]pyrimidin-7(4H)one-6-carboxylic acid ethyl esters. El-Tahir KE, et al. **Boll Chim Farm** 1995 Dec; 134(11):604-8

Synthesis of two analogues of the Sda determinant. Replacement of the sialic acid residue by a sulfate or a carboxymethyl group. van Seeventer PB, et al. **Carbohydr Res** 1997 Apr 21;299(3):171-9

Synthesis of [[(benzenesulfonamido)alkyl]phenyl]alkanoic acid derivatives containing pyridyl or imidazolyl groups and their thromboxane A2 receptor antagonistic and thromboxane A2 synthase inhibitory activities. Sakurai S, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1510-20

Synthesis, biological evaluation, and structure-activity relationships of 3-acylindole-2-carboxylic acids as inhibitors of the cytosolic phospholipase A2. Lehr M. **J Med Chem** 1997 Aug 15;40(17):2694-705

Synthesis, characterization and biodistribution of new 99mTc oxo and nitrido complexes with bi- and tetradendate unsaturated NS and N2S2 Schiff bases derived from 2-aminocyclopentene-1-dithiocarboxylic acid as potential heart imaging agents. Coulais Y, et al. **Nucl Med Biol** 1994 Feb;21(2):263-8

Synthesis, structures and biological activity of some 4-amino-3-cinnolinecarboxylic acid derivatives. Part 2. Stańczak A, et al. **Pharmazie** 1997 Feb;52(2):91-7

Synthesis and pharmacological properties of 2,4-disubstituted 5-amino-6-pyrimidinecarboxylic acid derivatives. Part III. Jasztold-Howorko R, et al. **Pol J Pharmacol** 1995 Sep-Oct; 47(5):435-40

CHEMISTRY

5,8-Dimethoxy-1-naphthoic acid and methyl 5,8-dimethoxy-1-naphthoate. Blackburn AC, et al. **Acta Crystallogr C** 1997 Aug 15;53 (Pt 8):1077-80

Anthracene-1-carboxylic acid. Fitzgerald LJ, et al. **Acta Crystallogr C** 1997 Aug 15;53 (Pt 8):1080-2

Molecular models for the stereochemical structures of fumonisin B1 and B2. Beier RC, et al. **Arch Environ Contam Toxicol** 1997 Jul;33(1):1-8

Structure-activity relation in camptothecin antitumor drugs: why a detailed molecular characterisation of their lactone and carboxylate forms by Raman and SERS spectroscopies? Chourpa I, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):349-60

Ultraviolet and fluorescence derivatization reagents for carboxylic acids suitable for high performance liquid chromatography: a review. Mukherjee PS, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):193-204 (114 ref.)

4-(N-hydrazinoformylmethyl-N-methyl)-amino-7-N, N-dimethylaminosulphonyl-2,1,3-benzoxadiazole (DBD-CO-Hz) as a precolumn fluorescence derivatization reagent for carboxylic acids in high-performance liquid chromatography. Santa T, et al. **Biomed Chromatogr** 1996 Jul-Aug;10(4):183-5

Further branching of valproate-related carboxylic acids reduces the teratogenic activity, but not the anticonvulsant effect. Bojic U, et al. **Chem Res Toxicol** 1996 Jul-Aug; 9(5):866-70

Interactions of lactone, carboxylate and self-aggregated forms of camptothecin with human and bovine serum albumins. Fleury F, et al. **FEBS Lett** 1997 Apr 7; 406(1-2):151-6

Fate of fumonisins B1 and B2 in steeped corn kernels. Canela R, et al. **Food Addit Contam** 1996 Jul;13(5):511-7

Effect of monomer composition on proton dissociation of weak polyacids. Paoletti S, et al. **Glycoconj J** 1997 Jun; 14(4):513-7

Catalytic role of the alpha-carboxylate of the Glu residue of glutathione in glutathione S-transferases. Zheng YJ, et al. **J Biomol Struct Dyn** 1996 Oct;14(2):231-3

Selectivity, differential mobility and resolution as parameters to optimize capillary electrophoretic separation. Dolník V. **J Chromatogr A** 1996 Sep 13;744(1-2):115-21

Synthesis, characterization, cytotoxic, and DNA binding studies of some platinum (II) complexes of 1,2-diamine and alpha-diimine with 2-pyridinecarboxylate anion. Paul AK, et al. **J Inorg Biochem** 1996 Feb 15;61(3):179-96

Molecular association of normal alkanoic acids with their thallium(I) salts: a new homologous series of fatty acid metal soaps. Fernández-García M, et al. **J Lipid Res** 1997 Feb;38(2):361-72

Aqueous dissociation constants of bile pigments and sparingly soluble carboxylic acids by 13C NMR in aqueous dimethyl sulfoxide: effects of hydrogen bonding. Trull FR, et al. **J Lipid Res** 1997 Jun;38(6):1178-88

Selective inhibitors of monoamine oxidase. 4. SAR of tricyclic N-methylcarboxamides and congeners binding at the tricyclics' hydrophilic binding site. Harfenist M, et al. **J Med Chem** 1997 Aug 1;40(16):2466-73

Hypoglycemic activity of a series of alpha-alkylthio and alpha-alkoxy carboxylic acids related to ciglitazone. Hulin B, et al. **J Med Chem** 1996 Sep 27;39(20):3897-907

Antipsoriatic anthrones with modulated redox properties. 4. Synthesis and biological activity of novel 9,10-dihydro-1,8-dihydroxy-9-oxo-2-anthracenecarboxylic and -hydroxamic acids. Müller K, et al. **J Med Chem** 1997 Aug 15;40(17):2780-7

Identification of a new series of fumonisins containing 3-hydroxypyridine. Musser SM, et al. **J Nat Prod** 1996 Oct;59(10):970-2

Binding of cyclodextrins to alicyclic and aromatic substrates: complex formation of alpha-, beta-, and gamma-cyclodextrins with substituted cyclohexanecarboxylic acids and phenylalkanoic acids. Gadre A, et al. **J Pharm Sci** 1997 Feb;86(2):236-43

Direct interaction between amino- and carboxyl-terminal domains of cyclic nucleotide-gated channels. Gordon SE, et al. **Neuron** 1997 Aug;19(2):431-41

Effects of polyaminocarboxylate metal chelators on iron-thiolate induced oxidation of methionine- and histidine-containing peptides. Zhao F, et al. **Pharm Res** 1996 Jun;13(6):931-8

Carboxyfullerenes as neuroprotective agents. Dugan LL, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9434-9

Fibrin polymerisation. Evidence for a secondary polymerisation site on the carboxy terminal end of the AA chain using a human fibrin specific murine monoclonal antibody. Gaffney PJ, et al. **Ukr Biokhim Zh** 1996 Jul-Aug; 68(4):43-4

ISOLATION & PURIFICATION

Separation of 18 6-aminoquinolyl-carbamyl-amino acids by ion-pair chromatography. Shindo N, et al. **Anal Biochem** 1997 Jun 15;249(1):79-82

Enantioselective separation of chiral arylcarboxylic acids on an immobilized human serum albumin chiral stationary phase. Andrisano V, et al. **Chirality** 1997;9(2):178-83

Isolation and characterization of two new type C fumonisins produced by Fusarium oxysporum. Seo JA, et al. **J Nat Prod** 1996 Nov;59(11):1003-5

METABOLISM

Reductive dehalogenation of halocarboxylic acids by the phototrophic genera Rhodospirillum and Rhodopseudomonas. McGrath JE, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3333-5

The effect of lactobacilli inoculation on organic acid levels in the mucosal film and the small intestine contents in gnotobiotic pigs. Bomba A, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov-Dec; 109(11-12):428-30

The enolase superfamily: a general strategy for enzyme-catalyzed abstraction of the alpha-protons of carboxylic acids. Babbitt PC, et al. **Biochemistry** 1996 Dec 24;35(51):16489-501

Carboxylate ions are strong allosteric ligands for the HisB10 sites of the R-state insulin hexamer. Huang ST, et al. **Biochemistry** 1997 Aug 12;36(32):9878-88

DNA binding specificity of MunI restriction endonuclease is controlled by pH and calcium ions: involvement of active site carboxylate residues. Lagunavicius A, et al. **Biochemistry** 1997 Sep 16;36(37):11093-9

Oocyte and zygote ketoaldehyde utilisation. Legge M. **Biochim Biophys Acta** 1997 Feb 4;1355(2):99-101

Influence of vitamin D and retinoids on the gammacarboxylation of osteocalcin in human osteosarcoma MG63 cells. Szulc P, et al. **Bone** 1996 Dec;19(6):615-20

Comparison of in vitro carnitine and glycine conjugation with branched-side chain and cyclic side chain carboxylic acids in rats. Kanazu T, et al. **Drug Metab Dispos** 1997 Feb;25(2):149-53

cDNA cloning, recombinant expression, and site-directed mutagenesis of bovine liver carnitine octanoyltransferase--Arg505 binds the carboxylate group of carnitine. Cronin CN. **Eur J Biochem** 1997 Aug 1; 247(3):1029-37

Comparison between concentrations of racemic mefloquine, its separate enantiomers and the carboxylic acid metabolite in whole blood serum and plasma. Hellgren U, et al. **Eur J Clin Pharmacol** 1996;51(2):171-3

Interaction of salicylate and ibuprofen with the carboxylic acid: CoA ligases from bovine liver mitochondria. Vessey DA, et al. **J Biochem Toxicol** 1996;11(2):73-8

Serum undercarboxylated osteocalcin and the risk of hip fracture [editorial; comment] Seibel MJ, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):717-8. Comment on: J Clin Endocrinol Metab 1997 Mar;82(3):719-24.

Undercarboxylated osteocalcin measured with a specific immunoassay predicts hip fracture in elderly women: the EPIDOS Study [see comments] Vergnaud P, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):719-24. Comment in: J Clin Endocrinol Metab 1997 Mar;82(3):717-8.

Novel method for coupling of poly(ethyleneglycol) to carboxylic acid moieties of proteins. Kynclova E, et al. **J Mol Recognit** 1996 Sep-Dec;9(5-6):644-51

Adaptation of rate of organic acid production of hindgut bacteria to chronic intake of galactooligosaccharide in the rat. Kikuchi-Hayakawa H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Jun;43(3):357-68

The effect of surfactants on the rate of decarboxylation of p-aminosalicylic acid in acidic aqueous solutions. Plamondon JE, et al. **J Pharm Sci** 1997 Feb;86(2):205-8

Bacterial production of transdihydroxycyclohexadiene carboxylates by metabolic pathway engineering. Müller R, et al. **Microbiology** 1996 Apr;142 (Pt 4):1005-12

Carrier-mediated transport of monocarboxylic acids in primary cultured epithelial cells from rabbit oral mucosa. Utoguchi N, et al. **Pharm Res** 1997 Mar;14(3):320-4

Carboxylate interactions involved in the disassembly of tobacco mosaic tobamovirus. Lu B, et al. **Virology** 1996 Nov 1;225(1):11-20

PHARMACOKINETICS

Weak organic acid uptake in rat renal tubules in vitro: stimulation by pent-4-enoic acid. Ostretsova IB, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):1-6

Disposition of 14C-derived residues in tissues of pigs fed radiolabelled fumonisin B1. Prelusky DB, et al. **Food Addit Contam** 1996 Feb-Mar;13(2):155-62

PHARMACOLOGY

Activity of 2-azaspiro[4.5]decane-6-carboxylates as GABA-uptake inhibitors. Fleischhacker W, et al. **Arch Pharm (Weinheim)** 1996 Mar;329(3):149-54

Inhibition of a medium chain acyl-CoA synthetase involved in glycine conjugation by carboxylic acids. Kasuya F, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1643-6

Monocarboxylic acids enhance the anesthetic action of procaine by decreasing intracellular pH. Katsuki H, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):273-82

Characterization of the pharmacological profile of the potent LTB4 antagonist CP-105,696 on murine LTB4 receptors in vitro. Showell HJ, et al. **Br J Pharmacol** 1996 Mar; 117(6):1127-32

Astringent subqualities in acids. Thomas CJ, et al. **Chem Senses** 1995 Dec;20(6):593-600

Antidepressant-like effects of 1-aminocyclopropanecarboxylic acid and D-cycloserine in an animal model of depression. Papp M, et al. **Eur J Pharmacol** 1996 Dec 5;316(2-3):145-51

Effect of fumonisin B1 on the levels and fatty acid composition of selected lipids in rat liver in vivo. Gelderblom WC, et al. **Food Chem Toxicol** 1997 Jul; 35(7):647-56

The influence of organic acids on the proliferation of human peripheral lymphocytes activated by concanavalin A and pokeweed mitogen. Santos KD, et al. **Int J Immunopharmacol** 1996 Dec;18(12):761-9

Elevation of ceramide within distal neurites inhibits neurite growth in cultured rat sympathetic neurons. de Chaves EIP, et al. **J Biol Chem** 1997 Jan 31;272(5):3028-35

The role of sphingolipids in the maintenance of fibroblast morphology. The inhibition of protrusional activity, cell spreading, and cytokinesis induced by fumonisin B1 can be reversed by ganglioside GM3. Meivar-Levy I, et al. **J Biol Chem** 1997 Jan 17;272(3):1558-64

Fumonisin B1-induced sphingolipid depletion inhibits vitamin uptake via the glycosylphosphatidylinositol-anchored folate receptor. Stevens VL, et al. **J Biol Chem** 1997 Jul 18;272(29):18020-5

Mycotoxin fumonisin B1 stimulates nitric oxide production in a murine macrophage cell line. Rotter BA, et al. **Nat Toxins** 1996;4(6):291-4

Absence of a synergistic effect between fumonisin B1 and N-nitrosomethylbenzylamine in the induction of oesophageal papillomas in the rat. Wild CP, et al. **Nat Toxins** 1997;5(3):126-31

Carboxyfullerenes as neuroprotective agents. Dugan LL, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9434-9

[Changes in membrane permeability under the action of the naphthenic hydrocarbons in naphthalan] Musaev AV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May-Jun; (3):39-42 (Eng. Abstr.) **(Rus)**

POISONING

A foodborne disease outbreak due to the consumption of moldy sorghum and maize containing fumonisin mycotoxins. Bhat RV, et al. **J Toxicol Clin Toxicol** 1997; 35(3):249-55

RADIATION EFFECTS

Stability of fumonisins at different storage periods and temperatures in gamma-irradiated maize. Visconti A, et al. **Food Addit Contam** 1996 Nov-Dec;13(8):929-38

TOXICITY

Effects of dietary fumonisin B1-containing culture material, deoxynivalenol-contaminated wheat, or their combination on growing barrows. Harvey RB, et al. **Am J Vet Res** 1996 Dec;57(12):1790-4

Effects of dietary exposure to fumonisins from Fusarium moniliforme culture material (M-1325) on the reproductive performance of female mink. Powell DC, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):286-92

The individual and combined effects of the Fusarium mycotoxins moniliformin and fumonisin B1 in turkeys. Bermudez AJ, et al. **Avian Dis** 1997 Apr-Jun;41(2):304-11

Fumonisin mycotoxicosis in broilers: plasma proteins and coagulation modifications. Espada Y, et al. **Avian Dis** 1997 Jan-Mar;41(1):73-9

The cancer-promoting potential of fumonisin B1 in rat liver using diethylnitrosamine as a cancer initiator. Gelderblom WC, et al. **Cancer Lett** 1996 Dec 3;109(1-2):101-8

Alterations of the glutathione redox cycle status in fumonisin B1-treated pig kidney cells. Kang YJ, et al. **J Biochem Toxicol** 1996;11(3):121-6

Rapid method to determine sphinganine/sphingosine in human and animal urine as a biomarker for fumonisin exposure. Solfrizzo M, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):87-93

Chronic consumption of fumonisins derived from Fusarium moniliforme culture material: clinical and pathologic effects in swine. Guzman RE, et al. **J Vet Diagn Invest** 1997 Apr; 9(2):216-8

Genotoxic effects of three Fusarium mycotoxins, fumonisin B1, moniliformin and vomitoxin in bacteria and in primary cultures of rat hepatocytes. Knasmüller S, et al. **Mutat Res** 1997 Jun 13;391(1-2):39-48

Effects of fumonisin B1 treatment on blood-brain barrier transfer in developing rats. Kwon OS, et al. **Neurotoxicol Teratol** 1997 Mar-Apr;19(2):151-5

Prenatal fumonisin (FB1) treatment in rats results in minimal maternal or offspring toxicity. Ferguson SA, et al. **Neurotoxicology** 1997;18(2):561-9

Fumonisin B1 in developing rats alters brain sphinganine levels and myelination. Kwon OS, et al. **Neurotoxicology** 1997;18(2):571-79

Individual and combined effects of fumonisin B1 present in Fusarium moniliforme culture material and diacetoxyscirpenol or ochratoxin A in turkey poults. Kubena LF, et al. **Poult Sci** 1997 Feb;76(2):256-64

Effects of feeding Fusarium moniliforme culture material, containing known levels of fumonisin B1, in the young turkey poult. Ledoux DR, et al. **Poult Sci** 1996 Dec; 75(12):1472-8

Developmental toxicity of carboxylic acids to Xenopus embryos: a quantitative structure-activity relationship and computer-automated structure evaluation. Dawson DA, et al. **Teratog Carcinog Mutagen** 1996;16(2):109-24

URINE

GC-MS profiling of urinary organic acids evaluated as a quantitative method. Duez P, et al. **Clin Chem** 1996 Oct; 42(10):1609-15

Sample preparation with an automated robotic workstation

for organic acid analysis by gas chromatography-mass spectrometry. Bengtsson IM, et al.
J Chromatogr B Biomed Appl 1996 Oct 11;685(1):1-7
Effects of hypoxia on urinary organic acid and hypoxanthine excretion in fetal sheep. Walker V, et al. **Pediatr Res** 1996 Aug;40(2):309-18

CARBOXYLIC ESTER HYDROLASES

ANALYSIS

Neuropathy target esterase (NTE): molecular characterisation and cellular localisation. Glynn P.
Arch Toxicol Suppl 1997;19:325-9 (10 ref.)
Identification and isolation of a 155-kDa protein with neuropathy target esterase activity. Mackay CE, et al.
Fundam Appl Toxicol 1996 Mar;30(1):23-30
Nonspecific esterase activity in astrocytes of the goldfish brain. Pepperell C, et al. **J Histochem Cytochem** 1996 Oct; 44(10):1195-203
Comparison of retinyl ester hydrolase activities in bovine liver and retinal pigment epithelium. Mata NL, et al.
J Lipid Res 1996 Sep;37(9):1947-52
Leukocyte esterase dipstick as a rapid screening test for vaginitis and cervicitis. Chacko MR, et al.
J Pediatr Adolesc Gynecol 1996 Nov;9(4):185-9
A continuous fluorimetric method to monitor the enzymatic hydrolysis of medicinal esters. Salvi A, et al.
J Pharm Biomed Anal 1996 Nov;15(2):149-55
Esterase D (ESD, EC 3.1.1.1) polymorphism in hemolysates and bloodstains. I. Usefulness of selected methods of ESD phenotyping. Pepiński W, et al.
Rocz Akad Med Bialymst 1995;40(2):293-300
Esterase D (ESD EC 3.1.1.1) polymorphism in hemolysates and bloodstains. II. Comparison of ESD stability in dried bloodstains in relation to the temperature of storage and the type and character of substrate. Pepiński W, et al.
Rocz Akad Med Bialymst 1995;40(2):301-7
An automatable microassay for phenyl valerate esterase activities sensitive to organophosphorus compounds. Escudero MA, et al. **Toxicol Lett** 1996 Dec 31;89(3):241-7

ANTAGONISTS & INHIBITORS

Bovine chromaffin cells as in vitro model for the study of non-cholinergic toxic effects of organophosphorus compounds. Sogorb MA, et al. **Arch Toxicol Suppl** 1997; 19:347-55
Chiral preference of cutinase in the reaction with phosphonate inhibitors. Mannesse ML, et al.
Biochem Soc Trans 1997 Feb;25(1):165-70
Inhibition of chicken liver carboxylesterase by activated carbonyls and carbonyl hydrates. Berndt MC, et al.
Biochim Biophys Acta 1996 Dec 5;1298(2):159-66
Tissue-specific effects of chlorpyrifos on carboxylesterase and cholinesterase activity in adult rats: an in vitro and in vivo comparison. Chanda SM, et al.
Fundam Appl Toxicol 1997 Aug;38(2):148-57
Potentiation of organophosphorus-induced delayed neurotoxicity following phenyl saligenin phosphate exposures in 2-, 5-, and 8-week-old chickens. Harp P, et al. **Fundam Appl Toxicol** 1997 May;37(1):64-70
Interspecies differences in enzymes reacting with organophosphates and their inhibition by paraoxon in vitro. Kaliste-Korhonen E, et al. **Hum Exp Toxicol** 1996 Dec; 15(12):972-8
The effects of multiple low doses of organophosphates on target enzymes in brain and diaphragm in the mouse. Williams FM, et al. **Hum Exp Toxicol** 1997 Feb;16(2):67-71
The effect of high and low dosages of paraoxon in beta-naphthoflavone-treated rats. Watson AM, et al.
J Biochem Toxicol 1996;11(6):263-8
Studies on the inhibition of pancreatic and carboxylester lipases by protamine. Tsujita T, et al. **J Lipid Res** 1996 Jul;37(7):1481-7
Self-reported exposure to neurotoxic chemical combinations in the Gulf War. A cross-sectional epidemiologic study [see comments] Haley RW, et al. **JAMA** 1997 Jan 15; 277(3):231-7. Comment in: JAMA 1997 Jan 15;277(3):259-61. Comment in: JAMA 1997 Aug 6;278(5):384; discussion 385-7. Comment in: JAMA 1997 Aug 6;278(5):385; discussion 385-7. Comment in: JAMA 1997 Aug 6;278(5):385-7.
Structure-activity relationships for substrates and inhibitors of mammalian liver microsomal carboxylesterases. Huang TL, et al. **Pharm Res** 1996 Oct;13(10):1495-500
Inhibition of neurotoxic esterase in vitro by novel carbamates. Randall JC, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):173-8
Actions of two highly potent organophosphorus neuropathy target esterase inhibitors in mammalian cell lines. Li W, et al. **Toxicol Lett** 1997 Jul 21;92(2):123-30

BIOSYNTHESIS

Differentiation-dependent expression of a human carboxylesterase in monocytic cells and transcription factor binding to the promoter. Langmann T, et al.
Biochem Biophys Res Commun 1997 Jan 3;230(1):215-9
A major bioactive component of plant cell walls, ferulic acid, influences feruloyl esterase production in Aspergillus niger. Faulds CB, et al. **Biochem Soc Trans** 1996 Aug;24(3):386S
Differences in the induction of carboxylesterase RL4 in rat liver microsomes by various perfluorinated fatty acids, metabolically inert derivatives of fatty acids. Derbel M, et al. **Biol Pharm Bull** 1996 May;19(5):765-7
Cloning and expression of the cutinase A gene of Botrytis cinerea. van der Vlugt-Bergmans CJ, et al.
Mol Plant Microbe Interact 1997 Jan;10(1):21-9
Cutinase A of Botrytis cinerea is expressed, but not essential, during penetration of gerbera and tomato. van Kan JA, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):30-8
Characterization and cloning of cutinase from Ascochyta rabiei. Tenhaken R, et al. **Z Naturforsch [C]** 1997 Mar-Apr; 52(3-4):197-208

BLOOD

Interspecies variation of "B" esterases in birds: the influence of size and feeding habits. Fossi MC, et al.
Arch Environ Contam Toxicol 1996 Nov;31(4):525-32
Purification and characterization of juvenile hormone esterase from hemolymph of the Colorado potato beetle. Vermunt AM, et al. **Arch Insect Biochem Physiol** 1997; 35(3):261-77
Serum pilocarpine esterase activity and response to oral pilocarpine. Aromdee C, et al. **Biochem Mol Med** 1996 Oct; 59(1):57-61
Variation in serum arylesterase, beta-glucuronidase, cathepsin L and plasminogen activators during pregnancy. Carpintero A, et al. **Clin Chim Acta** 1996 Nov 29; 255(2):153-64
Lymphocyte esterases and hydroxylases in neurotoxicology. Fournier L, et al. **Vet Hum Toxicol** 1996 Jun;38(3):190-5

CHEMISTRY

On the stability of a tumour cell surface protease after exposure to 6N HCl. Steven FS, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):891-3
Lung "surfactant convertase" is a member of the carboxylesterase family. Krishnasamy S, et al.
Biochem Biophys Res Commun 1997 Jun 9;235(1):180-4
Pectin methyl esterase from Aspergillus aculeatus: expression cloning in yeast and characterization of the recombinant enzyme. Christgau S, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):705-12
New catalytic roles for serine esterases: a 19F-NMR study of the interaction of 3,3,3-trifluoro-2,2-dihydroxy-1-phenyl-1-propanone with chicken liver carboxylesterase. Bowles MR, et al.
Biochim Biophys Acta 1996 Dec 5;1298(2):167-79
Size of the catalytically active unit of rat hepatic carboxylester lipase in the presence and absence of bile salt. Harrison EH, et al. **Biochim Biophys Acta** 1997 Aug 16;1347(2-3):177-82
Synthesis and inhibitory properties of a thiomethylmercuric sialic acid with application to the X-ray structure determination of 9-O-acetylsialic acid esterase from influenza C virus. Fitz W, et al. **Bioorg Med Chem** 1996 Aug;4(8):1349-53
Purification and characterization of rat liver microsomal fatty acid ethyl and 2-chloroethyl ester synthase and their relationship with carboxylesterase (pI 6.1). Kaphalia BS, et al. **Chem Res Toxicol** 1997 Feb;10(2):211-8
Crystal structure at 1.2 A resolution and active site mapping of Escherichia coli peptidyl-tRNA hydrolase. Schmitt E, et al. **EMBO J** 1997 Aug 1;16(15):4760-9
Determination of the active sites serine of the poly (3-hydroxybutyrate) depolymerases of Pseudomonas lemoignei (PhaZ5) and of Alcaligenes faecalis. Shinohe T, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):103-9
Adsorption kinetics of bacterial PHB depolymerase on the surface of polyhydroxyalkanoate films. Kasuya K, et al. **Int J Biol Macromol** 1996 Jul;19(1):35-40
Atomic resolution (1.0 A) crystal structure of Fusarium solani cutinase: stereochemical analysis. Longhi S, et al.
J Mol Biol 1997 May 16;268(4):779-99
Modification of tomato and Aspergillus niger pectinesterases with diethyl pyrocarbonate. Markovič O, et al.
J Protein Chem 1996 Feb;15(2):127-30
Cloning and expression of the cutinase A gene of Botrytis cinerea. van der Vlugt-Bergmans CJ, et al.
Mol Plant Microbe Interact 1997 Jan;10(1):21-9
Molecular cloning of the cDNA encoding a murine sialic acid-specific 9-O-acetylesterase and RNA expression in cells of hematopoietic and non-hematopoietic origin. Stoddart A, et al. **Nucleic Acids Res** 1996 Oct 15; 24(20):4003-8
Crystal structure of cutinase covalently inhibited by a triglyceride analogue. Longhi S, et al. **Protein Sci** 1997 Feb;6(2):275-86
Dynamics of Fusarium solani cutinase investigated through structural comparison among different crystal forms of its variants. Longhi S, et al. **Proteins** 1996 Dec;26(4):442-58
Crystallization and preliminary X-ray analysis of Escherichia coli peptidyl-tRNA hydrolase. Schmitt E, et al.
Proteins 1997 May;28(1):135-6
Characterization and cloning of cutinase from Ascochyta rabiei. Tenhaken R, et al. **Z Naturforsch [C]** 1997 Mar-Apr; 52(3-4):197-208

DRUG EFFECTS

[A comparative study of the cholinesterase and carboxylesterase sensitivities of mammals and arthropods to new phenyl and glycidyl esters of dialkyl thiophosphoric acid] Brestkin AP, et al. **Zh Evol Biokhim Fiziol** 1996 Jul-Aug;32(4):377-83 (Eng. Abstr.) **(Rus)**

GENETICS

Molecular cloning and characterization of a novel putative carboxylesterase, present in human intestine and liver. Schwer H, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):117-20
Co-amplification explains linkage disequilibrium of two mosquito esterase genes in insecticide-resistant Culex quinquefasciatus. Vaughan A, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):359-65
Cloning of poly(3-hydroxybutyrate) depolymerase from a marine bacterium, Alcaligenes faecalis AE122, and characterization of its gene product. Kita K, et al.
Biochim Biophys Acta 1997 May 2;1352(1):113-22
Structural organization and characterization of the promoter region of a human carboxylesterase gene. Langmann T, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):65-74
Modulation of gene expression in the embryonic digestive tract of C. elegans. Fukushige T, et al. **Dev Biol** 1996 Sep 15;178(2):276-88
Identification, sequencing and mutagenesis of the gene for a D-carbamoylase from Agrobacterium radiobacter. Buson A, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):55-62
Cloning of a gene encoding cinnamoyl ester hydrolase from the ruminal bacterium Butyrivibrio fibrisolvens E14 by a novel method. Dalrymple BP, et al.
FEMS Microbiol Lett 1996 Oct 1;143(2-3):115-20
Taxonomic identification of Streptomyces exfoliatus K10 and characterization of its poly(3-hydroxybutyrate) depolymerase gene. Klingbeil B, et al.
FEMS Microbiol Lett 1996 Sep 1;142(2-3):215-21
Cloning and sequencing of the gene encoding tannase and a structural study of the tannase subunit from Aspergillus oryzae [published erratum appears in Gene 1997 Feb 20;186(1):153] Hatamoto O, et al. **Gene** 1996 Oct 10; 175(1-2):215-21
Esterase polymorphism in insecticide susceptible populations of the mosquito Culex pipiens. Raymond M, et al.
Genet Res 1996 Feb;67(1):19-26
Mapping three classical isozyme loci in tetrahymena: meiotic linkage of EstA to the ChxA linkage group. Allen SL, et al. **Genetics** 1996 Dec;144(4):1489-96
The genetic mapping and gene structure of mouse paraoxonase/arylesterase. Sorenson RC, et al. **Genomics** 1995 Dec 10;30(3):431-8
Coamplification of esterase A and B genes as a single unit in Culex pipiens mosquitoes. Rooker S, et al. **Heredity** 1996 Nov;77 (Pt 5):555-61
cDNA cloning, baculovirus-expression and kinetic properties of the esterase, E3, involved in organophosphorus resistance in Lucilia cuprina. Newcomb RD, et al.
Insect Biochem Mol Biol 1997 Jan;27(1):15-25
Purification of an extracellular D-(-)-3-hydroxybutyrate oligomer hydrolase from Pseudomonas sp. strain A1 and cloning and sequencing of its gene. Zhang K, et al.
J Bacteriol 1997 Jan;179(1):72-7
Cloning of cutinase transcription factor 1, a transactivating protein containing Cys6Zn2 binuclear cluster DNA-binding motif. Li D, et al. **J Biol Chem** 1997 May 9;272(19):12462-7
Expression of a Butyrivibrio fibrisolvens E14 gene (cinB) encoding an enzyme with cinnamoyl ester hydrolase activity is negatively regulated by the product of an adjacent gene (cinR). Dalrymple BP, et al.
Microbiology 1997 Apr;143 (Pt 4):1203-10
Promoter sequences of two homologous pectin esterase genes from Chinese cabbage (Brassica campestris L. ssp. pekinensis) and pollen-specific expression of the GUS gene driven by a promoter in tobacco plants. Kim HU, et al.
Mol Cells 1997 Feb 28;7(1):21-7
Effect of disruption of a cutinase gene (cutA) on virulence and tissue specificity of Fusarium solani f. sp. cucurbitae race 2 toward Cucurbita maxima and C. moschata. Crowhurst RN, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):355-68
Pectinmethylesterase isoforms from Vigna radiata hypocotyl cell walls: kinetic properties and molecular cloning of a cDNA encoding the most alkaline isoform. Bordenave M, et al. **Plant Mol Biol** 1996 Aug;31(5):1039-49
Characterization of pectinases and pectin methylesterase cDNAs in pods of green beans (Phaseolus vulgaris L.). Ebbelaar ME, et al. **Plant Mol Biol** 1996 Sep;31(6):1141-51
A single amino acid substitution converts a carboxylesterase to an organophosphorus hydrolase and confers insecticide resistance on a blowfly. Newcomb RD, et al.
Proc Natl Acad Sci U S A 1997 Jul 8;94(14):7464-8
Divergent and conserved features in the spatial expression of the Drosophila pseudoobscura esterase-5B gene and the esterase-6 gene of Drosophila melanogaster. Tamarina NA, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7735-41

ISOLATION & PURIFICATION

Characterization of Listeria monocytogenes isolates by esterase electrophoresis. Harvey J, et al.
Appl Environ Microbiol 1996 Apr;62(4):1461-6
Isolation and characterization of novel long-chain acyl-CoA thioesterase/carboxylesterase isoenzymes from Candida rugosa. Diczfalusy MA, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):104-12

Purification and characterization of guinea-pig liver microsomal deacetylase involved in the deacetylation of the O-glucoside of N-hydroxyacetanilide.
Suzuki-Kurasaki M, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):155-61

Purification and characterization of pranlukast hydrolase from rat liver microsomes: the hydrolase is identical to carboxylesterase pI 6.2. Luan L, et al. **Biol Pharm Bull** 1997 Jan;20(1):71-5

Purification and characterization of the esterases involved in aflatoxin biosynthesis in Aspergillus parasiticus. Kusumoto K, et al. **Can J Microbiol** 1996 Aug;42(8):804-10

Purification and characterization of an Aspergillus oryzae-produced carboxylesterase that catalyzes O-deacetylation of a fully acetylated O-glucoside of N-phenylacetohydroxamic acid. Yoshioka T, et al.
Eur J Biochem 1997 Aug 15;248(1):58-62

Identification and isolation of a 155-kDa protein with neuropathy target esterase activity. Mackay CE, et al.
Fundam Appl Toxicol 1996 Mar;30(1):23-30

Purification of an extracellular D-(-)-3-hydroxybutyrate oligomer hydrolase from Pseudomonas sp. strain A1 and cloning and sequencing of its gene. Zhang K, et al.
J Bacteriol 1997 Jan;179(1):72-7

Purification and characterization of a neutral, bile salt-independent retinyl ester hydrolase from rat liver microsomes. Relationship To rat carboxylesterase ES-2. Sun G, et al. **J Biol Chem** 1997 Sep 26;272(39):24488-93

Purification and characterization of human heart fatty acid ethyl ester synthase/carboxylesterase. Bora PS, et al.
J Mol Cell Cardiol 1997 Jan;29(1):425

Characterization of the guanidinobenzoatase in the epididymal fluids of the mouse. Barksdale ZL, et al.
Mol Reprod Dev 1997 Jun;47(2):204-9

Partial purification and characterization of an esterase from Fusarium sporotrichioides. Park JJ, et al. **Nat Toxins** 1996; 4(3):108-16

Crystallization and preliminary X-ray analysis of Escherichia coli peptidyl-tRNA hydrolase. Schmitt E, et al.
Proteins 1997 May;28(1):135-6

Partial purification and characterization of methyl-p-hydroxyphenyllactate esterase in rat uterine cytosol. Maybruck WM, et al. **Steroids** 1997 Mar; 62(3):321-30

METABOLISM

Production and application of tannin acyl hydrolase: state of the art. Lekha PK, et al. **Adv Appl Microbiol** 1997; 44:215-60 (150 ref.)

A spectrophotometric assay for the enzymatic demethoxylation of pectins and the determination of pectinesterase activity. Mangos TJ, et al. **Anal Biochem** 1997 Jan 15;244(2):357-66

Kinetic studies of Fusarium solani cutinase in a gas/solid system. Lamare S, et al. **Ann N Y Acad Sci** 1996 Oct 12; 799:563-8

Optical resolution of pantolactone by a novel fungal enzyme, lactonohydrolase. Shimizu S, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:650-8

Immobilization of a recombinant cutinase by entrapment and by covalent binding. Kinetic and stability studies. Gonçalves AP, et al. **Appl Biochem Biotechnol** 1996 Sep; 60(3):217-28

An Aspergillus niger esterase (ferulic acid esterase III) and a recombinant Pseudomonas fluorescens subsp. cellulosa esterase (Xy1D) release a 5-5' ferulic dehydrodimer (diferulic acid) from barley and wheat cell walls. Bartolomé B, et al. **Appl Environ Microbiol** 1997 Jan;63(1):208-12

Mechanistic studies of the degradation of juvenile hormone esterase in Manduca sexta. Bonning BC, et al.
Arch Insect Biochem Physiol 1997;34(3):275-86

The thioesterase I of Escherichia coli has arylesterase activity and shows stereospecificity for protease substrates. Lee YL, et al. **Biochem Biophys Res Commun** 1997 Feb 13; 231(2):452-6

Biochemical characterization of juvenile hormone esterases from lines selected for high or low enzyme activity in Gryllus assimilis. Zera AJ, et al. **Biochem Genet** 1996 Dec; 34(11-12):421-35

Pectin methyl esterase from Aspergillus aculeatus: expression cloning in yeast and characterization of the recombinant enzyme. Christgau S, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):705-12

Purification and characterization of guinea-pig liver microsomal deacetylase involved in the deacetylation of the O-glucoside of N-hydroxyacetanilide.
Suzuki-Kurasaki M, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):155-61

Multiple retinoids alter liver bile salt-independent retinyl ester-hydrolase activity, serum vitamin A and serum retinol-binding protein of rats. Ritter SJ, et al.
Biochim Biophys Acta 1996 Dec 6;1291(3):228-36

Chromogenic lactate-leukocyte esterase substrates. Johnson GM, et al. **Bioconjug Chem** 1997 Jan-Feb;8(1):76-80

Involvement of a novel mouse hepatic microsomal esterase, ES46.5K, in the hydrolysis of phthalate esters. Kayano Y, et al. **Biol Pharm Bull** 1997 Jul;20(7):749-51

Selection of sputum specimens for microbiological examination. Hughes C, et al. **Br J Biomed Sci** 1996 Dec; 53(4):254-6

Action of cutinase at the triolein-water interface. Characterisation of interfacial effects during lipid hydrolysis using the oil-drop tensiometer as a tool to study lipase kinetics. Flipsen JA, et al. **Chem Phys Lipids** 1996 Dec 20;84(2):105-15

Methyl phenylalkanoates as substrates to probe the active sites of esterases. Kroon PA, et al. **Eur J Biochem** 1997 Aug 15;248(1):245-51

Purification and characterization of an Aspergillus oryzae-produced carboxylesterase that catalyzes O-deacetylation of a fully acetylated O-glucoside of N-phenylacetohydroxamic acid. Yoshioka T, et al.
Eur J Biochem 1997 Aug 15;248(1):58-62

Carboxylestrase activity in the carrot seed and seedling. Melati MR, et al. **Eur J Histochem** 1996;40(2):159-66

Poly(3-hydroxybutyrate) depolymerases bind to their substrate by a C-terminal located substrate binding site. Behrends A, et al. **FEMS Microbiol Lett** 1996 Oct 1; 143(2-3):191-4

Polycaprolactone depolymerase produced by the bacterium Alcaligenes faecalis. Oda Y, et al.
FEMS Microbiol Lett 1997 Jul 15;152(2):339-43

Determination of the active sites serine of the poly (3-hydroxybutyrate) depolymerases of Pseudomonas lemoignei (PhaZ5) and of Alcaligenes faecalis. Shinohe T, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):103-9

A comparative analysis of juvenile hormone metabolyzing enzymes in two species of Drosophila during development. Khlebodarova TM, et al. **Insect Biochem Mol Biol** 1996 Sep-Oct;26(8-9):829-35

Bovine chromaffin cells in culture show carboxylesterase activities sensitive to organophosphorus compounds. Sogorb MA, et al. **Int J Biochem Cell Biol** 1996 Sep; 28(9):983-9

Intracellular depolymerase and polyhydroxyoctanoate granule integrity in Pseudomonas oleovorans. Foster LJ, et al. **Int J Biol Macromol** 1996 Oct;19(3):177-83

Intracellular depolymerase functionality and location in Pseudomonas oleovorans inclusions containing polyhydroxyoctanoate. Stuart ES, et al.
Int J Biol Macromol 1996 Oct;19(3):171-6

CPT-11 in human colon-cancer cell lines and xenografts: characterization of cellular sensitivity determinants. Jansen WJ, et al. **Int J Cancer** 1997 Jan 27;70(3):335-40

Determination of decarbamoyl saxitoxin and its analogues in shellfish by prechromatographic oxidation and liquid chromatography with fluorescence detection. Lawrence JF, et al. **J AOAC Int** 1996 Sep-Oct;79(5):1111-5

Isolation, analysis, and expression of two genes from Thermoanaerobacterium sp. strain JW/SL YS485: a beta-xylosidase and a novel acetyl xylan esterase with cephalosporin C deacetylase activity. Lorenz WW, et al. **J Bacteriol** 1997 Sep;179(17):5436-41

Co-expression with BCR induces activation of the FES tyrosine kinase and phosphorylation of specific N-terminal BCR tyrosine residues. Li J, et al. **J Biol Chem** 1996 Dec 20;271(51):32930-6

Purification and cloning of a broad substrate specificity human liver carboxylesterase that catalyzes the hydrolysis of cocaine and heroin. Pindel EV, et al. **J Biol Chem** 1997 Jun 6;272(23):14769-75

Heterologous expression, isolation, and characterization of versicolorin B synthase from Aspergillus parasiticus. A key enzyme in the aflatoxin B1 biosynthetic pathway. Silva JC, et al. **J Biol Chem** 1997 Jan 10;272(2):804-13

Purification and characterization of a neutral, bile salt-independent retinyl ester hydrolase from rat liver microsomes. Relationship To rat carboxylesterase ES-2. Sun G, et al. **J Biol Chem** 1997 Sep 26;272(39):24488-93

Interaction of tissue plasminogen activator inhibitor with cell surface guanidinobenzoatase and urokinase plasminogen activator. Anees M. **J Enzyme Inhib** 1996;10(4):281-8

Inactivation of inhibitors by the receptor-destroying enzyme of influenza C virus. Höfling K, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):567-70

Chromatographic discrimination of soluble neuropathy target esterase isoenzymes and related phenyl valerate esterases from chicken brain, spinal cord, and sciatic nerve. Escudero MA, et al. **J Neurochem** 1997 May;68(5):2170-6

Lecithin:retinol acyltransferase and retinyl ester hydrolase activities are differentially regulated by retinoids and have distinct distributions between hepatocyte and nonparenchymal cell fractions of rat liver. Matsuura T, et al. **J Nutr** 1997 Feb;127(2):218-24

Fluorimetric determination of tissue distribution and differences between the activity of aspirin esterases I and II in mice and rats. Benedito MA. **J Pharm Pharmacol** 1997 Mar;49(3):273-6

Gender-specific differences in activity and protein levels of cocaine carboxylesterase in rat tissues. Zhang J, et al.
Life Sci 1996;59(14):1175-84

Human liver cocaine carboxylesterases. Bosron WF, et al.
NIDA Res Monogr 1997;173:27-34 (22 ref.)

Structure-activity relationships for substrates and inhibitors of mammalian liver microsomal carboxylesterases. Huang TL, et al. **Pharm Res** 1996 Oct;13(10):1495-500

Characterization and functional expression of a ubiquitously expressed tomato pectin methylesterase. Gaffe J, et al.
Plant Physiol 1997 Aug;114(4):1547-56

Disruption of lysosomal targeting is associated with insecticidal potency of juvenile hormone esterase. Bonning BC, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6007-12

Amniotic fluid leukocytes and leukocyte esterase activity in parturients delivered by caesarean section. Keski-Nisula L, et al. **Scand J Infect Dis** 1997;29(3):291-6

Partial purification and characterization of methyl-p-hydroxyphenyllactate esterase in rat uterine cytosol. Maybruck WM, et al. **Steroids** 1997 Mar; 62(3):321-30

Relative potencies of the four stereoisomers of isomalathion for inhibition of hen brain acetylcholinesterase and neurotoxic esterase in vitro. Jianmongkol S, et al.
Toxicol Appl Pharmacol 1996 Aug;139(2):342-8

Structure-activity relationships in the hydrolysis of acrylate and methacrylate esters by carboxylesterase in vitro. McCarthy TJ, et al. **Toxicology** 1997 Jan 15;116(1-3):153-8

Effect of fasciculin on hydrolysis of neutral and choline esters by butyrylcholinesterase, cobra venom and chicken acetylcholinesterases. Durán R, et al. **Toxicon** 1996 Aug; 34(8):959-63

[Localization and activity of some hydrolases in larvae of tapeworms Neogryporhynchus cheilancristrotus and Triaenophorus nodulosus parasitizing fish] Niemczuk W, et al. **Wiad Parazytol** 1996;42(4):415-20 (Eng. Abstr.)
(Pol)

PHARMACOLOGY

Conversion of irinotecan (CPT-11) to its active metabolite, 7-ethyl-10-hydroxycamptothecin (SN-38), by human liver carboxylesterase. Rivory LP, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1103-11

Dansyl fluoride, a fluorescent inhibitor for the location of tumour cells in human tissues. Anees M, et al.
J Enzyme Inhib 1996;10(3):195-201

Location of tumour cells in colon tissue by Texas red labelled pentosan polysulphate, an inhibitor of a cell surface protease. Anees M. **J Enzyme Inhib** 1996;10(3):203-14

PHYSIOLOGY

Galactolipase and chilling sensitivity of plants. Kaniuga Z. **Acta Biochim Pol** 1997;44(1):21-35 (81 ref.)

Cumulus cell dispersal from murine oocytes by an epididymal guanidinobenzoatase. Pedoto SY, et al. **J Exp Zool** 1997 Oct 1;279(2):185-8

Metabolism of cocaine and heroin is catalyzed by the same human liver carboxylesterases. Kamendulis LM, et al.
J Pharmacol Exp Ther 1996 Nov;279(2):713-7

SECRETION

Mediator release is altered in immunotherapy-treated patients: a 4-year study. Dokic D, et al. **Allergy** 1996 Nov; 51(11):796-803

TOXICITY

Safety evaluation of tannase enzyme preparation derived from Aspergillus oryzae. Lane RW, et al.
Food Chem Toxicol 1997 Feb;35(2):207-12

URINE

Clinical application of basic arginine amidase in human male urine. Matsuda Y, et al. **Biol Pharm Bull** 1996 Aug; 19(8):1083-5

CARBOXYMETHYL CELLULOSE see **CARBOXYMETHYLCELLULOSE**

CARBOXYMETHYLCELLULOSE

Effect of chromium salts on invertase immobilization onto carboxymethyl-cellulose-gelatine carrier system. Emregül E, et al. **Biomaterials** 1996 Jul;17(14):1423-7

The role of Seprafilm bioresorbable membrane in adhesion prevention. Beck DE. **Eur J Surg Suppl** 1997;(577):49-55

Prevention of postoperative abdominal adhesions by a sodium hyaluronate-based bioresorbable membrane: a prospective, randomized, double-blind multicenter study [see comments] Becker JM, et al. **J Am Coll Surg** 1996 Oct; 183(4):297-306. Comment in: J Am Coll Surg 1996 Oct;183(4):406-7.

Carboxymethylcellulose-sodium based transdermal drug delivery system for propranolol. Krishna R, et al.
J Pharm Pharmacol 1996 Apr;48(4):367-70

ADMINISTRATION & DOSAGE

Cellulose derivatives and intestinal absorption of water and electrolytes: potential role in oral rehydration solutions. Wapnir RA, et al. **Proc Soc Exp Biol Med** 1997 Jul; 215(3):275-80

ANALOGS & DERIVATIVES

Poly ICLC enhances the antimalarial activity of chloroquine against multidrug-resistant Plasmodium yoelii nigeriensis in mice. Awasthi A, et al. **J Interferon Cytokine Res** 1997 Jul;17(7):419-23

Killing of Leishmania donovani amastigotes by poly ICLC in hamsters. Bhakuni V, et al.
J Interferon Cytokine Res 1996 Apr;16(4):321-5

CHEMISTRY

In-vitro studies of enteric coated diclofenac sodium-carboxymethylcellulose microspheres. Arica B, et al. **J Microencapsul** 1996 Nov-Dec;13(6):689-99

[Comparative assessment of carboxymethylcellulose sorption properties with respect to hemin and globin] Nekliudov AD, et al. **Prikl Biokhim Mikrobiol** 1996 May–Jun; 32(3):290–3 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Comparison of carboxymethylcellulose vs. hydroxypropyl methylcellulose as a gonioscopic fluid. Nguyen TP, et al. **Optom Vis Sci** 1996 Jul;73(7):466–72

METABOLISM

CMC–liquefying enzyme, a low molecular mass initial cellulose–decomposing cellulase responsible for fragmentation from Streptomyces sp. LX. Li X, et al. **J Appl Microbiol** 1997 Jul;83(1):59–66

Pesticide and model drug release from carboxymethylceullose microspheres. Darvari R, et al. **J Microencapsul** 1996 Jan–Feb;13(1):9–24

PHARMACOLOGY

Dietary carboxymethylcellulose with high instead of low viscosity reduces macronutrient digestion in broiler chickens. Smits CH, et al. **J Nutr** 1997 Mar;127(3):483–7

Prevention of postoperative pericardial adhesions using tissue–protective solutions. Seeger JM, et al. **J Surg Res** 1997 Feb 15;68(1):63–6

THERAPEUTIC USE

Utilization of the serosal scarification model of postoperative intestinal adhesion formation to investigate potential adhesion–preventing substances in the rabbit. Singer ER, et al. **Can J Vet Res** 1996 Oct;60(4):305–11

Effects of physical barriers in prevention of adhesions: an incisional hernia model in rats. Alponat A, et al. **J Surg Res** 1997 Mar;68(2):126–32

CARBOXYMETHYLCYSTEINE see **CARBOCYSTEINE**

CARBOXYPEPTIDASE N see **LYSINE CARBOXYPEPTIDASE**

CARBOXYPEPTIDASE TRANSPEPTIDASE see **MURAMOYLPENTAPEPTIDE CARBOXYPEPTIDASE**

CARBOXYPEPTIDASES

Bacterial DD–transpeptidases and penicillin. Jamin M, et al. **Essays Biochem** 1995;29:1–24 (37 ref.)

ANTAGONISTS & INHIBITORS

Lactacystin, a specific inhibitor of the proteasome, inhibits human platelet lysosomal cathepsin A–like enzyme. Ostrowska H, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):729–32

Gem–dialkyl succinic acids: a novel class of inhibitors for carboxypeptidases. Asante–Appiah E, et al. **Biochemistry** 1997 Jul 22;36(29):8710–5

Inhibition of carboxypeptidase A by excess zinc: analysis of the structural determinants by X–ray crystallography. Gomez–Ortiz M, et al. **FEBS Lett** 1997 Jan 6;400(3):336–40

Regulation of cytoplasmic tubulin carboxypeptidase activity in vitro by cations and sulfhydryl–modifying compounds. Webster DR, et al. **J Cell Biochem** 1996 Mar 1;60(3):424–36

Piperastatin A, a new selective serine carboxypeptidase inhibitor produced by actinomycete. I. Taxonomy, production, isolation and biological activities. Murakami S, et al. **J Enzyme Inhib** 1996;10(2):93–103

Piperastatin A, a new selective serine carboxypeptidase inhibitor produced by actinomycete. II. Physico–chemical properties and structure determination. Murakami S, et al. **J Enzyme Inhib** 1996;10(2):105–14

Piperastatin B: a new selective serine carboxypeptidase inhibitor from Streptomyces lavendofoliae MJ908–WF13. Murakami S, et al. **J Enzyme Inhib** 1996 Aug;11(1):51–66

Peptidase inhibitor–induced antidiuresis mediated through angiotensin and opioid receptors in the rat hypothalamus. Tsushima H, et al. **Jpn J Pharmacol** 1996 May;71(1):61–71

Inhibition of human platelet cathepsin A by non–steroidal anti–inflammatory drugs—in vitro study. Ostrowska H. **Pol J Pharmacol** 1996 Jan–Feb;48(1):113–6

On the sensitivity of MD trajectories to changes in water–protein interaction parameters: the potato carboxypeptidase inhibitor in water as a test case for the GROMOS force field [see comments] Daura X, et al. **Proteins** 1996 May;25(1):89–103. Comment in: Proteins 1997 Jun;28(2):143.

BIOSYNTHESIS

The biosynthetic processing and secretion of endogenous carboxypeptidase H in mouse pituitary cells. Mains RE, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:10–8; discussion 18–9 (51 ref.)

Molecular cloning of Aplysia neuronal cDNAs that encode carboxypeptidases related to mammalian prohormone processing enzymes. Fan X, et al. **DNA Cell Biol** 1996 Nov; 15(11):937–45

Cloning and expression of human carboxypeptidase Z, a novel metallocarboxypeptidase. Song L, et al. **J Biol Chem** 1997 Apr 18;272(16):10543–50

Secretory granule proteases in rat mast cells. Cloning of 10 different serine proteases and a carboxypeptidase A from various rat mast cell populations. Lützelschwab C, et al. **J Exp Med** 1997 Jan 6;185(1):13–29

Decreased expression of carboxypeptidase E protein is correlated to estrogen–induction of rat pituitary tumors. Gregg D, et al. **Mol Cell Endocrinol** 1996 Mar 25; 117(2):219–25

BLOOD

Preoperative differential diagnosis of benign and malignant pancreatic lesions—the value of pancreatic secretory trypsin inhibitor, procarboxypeptidase B, CA19–9 and CEA. Cerwenka H, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1117–21

Serum procarboxypeptidase B, amylase and lipase in chronic renal failure. Chen CC, et al. **J Gastroenterol Hepatol** 1996 May;11(5):496–9

Cathepsin A–like activity in thrombin–activated human platelets. Substrate specificity, pH dependence, and inhibitory profile. Ostrowska H. **Thromb Res** 1997 Jun 1; 86(5):393–404

CHEMISTRY

C–terminal incorporation of fluorogenic and affinity labels using wild–type and mutagenized carboxypeptidase Y. Stennicke HR, et al. **Anal Biochem** 1997 May 15; 248(1):141–8

Analysis of the interactions between an enzyme and multiple inhibitors using combination plots. Asante–Appiah E, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):17–26

The pro region is not required for the expression or intracellular routeing of carboxypeptidase E. Song L, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):265–71

Structure and dynamics of the metal site of cadmium–substituted carboxypeptidase A in solution and crystalline states and under steady–state peptide hydrolysis. Bauer R, et al. **Biochemistry** 1997 Sep 23;36(38):11514–24

Substrates with charged P1 residues are efficiently hydrolyzed by serine carboxypeptidases when S3–P1 interactions are facilitated. Olesen K, et al. **Biochemistry** 1997 Oct 7;36(40):12235–41

Crystal structure of Kex1deltap, a prohormone–processing carboxypeptidase from Saccharomyces cerevisiae,. Shilton BH, et al. **Biochemistry** 1997 Jul 22;36(29):9002–12

Structure of membrane glutamate carboxypeptidase. Rawlings ND, et al. **Biochim Biophys Acta** 1997 May 23; 1339(2):247–52

Dipeptidyl–peptidase II is related to lysosomal Pro–X carboxypeptidase. Rawlings ND, et al. **Biochim Biophys Acta** 1996 Nov 14;1298(1):1–3

Bound ligand motion in crystalline carboxypeptidase A. Zhang H, et al. **Biophys J** 1997 Jan;72(1):363–72

Molecular cloning of Aplysia neuronal cDNAs that encode carboxypeptidases related to mammalian prohormone processing enzymes. Fan X, et al. **DNA Cell Biol** 1996 Nov; 15(11):937–45

A brain protein (P30) that immunoreacts with a polyclonal anti–pancreatic carboxypeptidase A antibody shows properties that are shared with tubulin carboxypeptidase. Weizetfel JC, et al. **Mol Cell Biochem** 1997 May; 170(1–2):139–46

The active site of carboxypeptidase Taq possesses the active–site motif His–Glu–X–X–His of zinc–dependent endopeptidases and aminopeptidases. Lee SH, et al. **Protein Eng** 1996 Jun;9(6):467–9

DEFICIENCY

Effect of carboxypeptidase E deficiency on progastrin processing and gastrin messenger ribonucleic acid expression in mice with the fat mutation. Udupi V, et al. **Endocrinology** 1997 May;138(5):1959–63

Cathepsin A deficiency in galactosialidosis: studies of patients and carriers in 16 families. Kleijer WJ, et al. **Pediatr Res** 1996 Jun;39(6):1067–71

GENETICS

Defining the role of Sxa1 during pheromone adaptation in Schizosaccharomyces pombe. Hughes M, et al. **Biochem Soc Trans** 1996 Aug;24(3):502S

Identification of the promoters for the human and murine protective protein/cathepsin A genes. Rottier RJ, et al. **DNA Cell Biol** 1997 May;16(5):599–610

Cloning and sequence analysis of cDNA encoding rat carboxypeptidase D. Xin X, et al. **DNA Cell Biol** 1997 Jul; 16(7):897–909

Expression of PC3, carboxypeptidase E and enkephalin in human monocyte–derived macrophages as a tool for genetic studies. LaMendola J, et al. **FEBS Lett** 1997 Mar 3;404(1):19–22

The gene for human carboxypeptidase U (CPU)—a proposed novel regulator of plasminogen activation—maps to 13q14.11. Vanhoof G, et al. **Genomics** 1996 Dec 15; 38(3):454–5

Molecular and biochemical analysis of protective protein/cathepsin A mutations: correlation with clinical severity in galactosialidosis [published erratum appears in Hum Mol Genet 1997 Jan;6(1):146] Zhou XY, et al. **Hum Mol Genet** 1996 Dec;5(12):1977–87

Cloning and analysis of the locus for mosquito vitellogenic carboxypeptidase. Deitsch KW, et al. **Insect Mol Biol** 1993; 2(4):205–13

Vacuolar protein sorting in fission yeast: cloning, biosynthesis, transport, and processing of carboxypeptidase Y from Schizosaccharomyces pombe. Tabuchi M, et al. **J Bacteriol** 1997 Jul;179(13):4179–89

Carboxypeptidase E activity is deficient in mice with the fat mutation. Effect on peptide processing. Fricker LD, et al. **J Biol Chem** 1996 Nov 29;271(48):30619–24

Toward antibody–directed enzyme prodrug therapy with the T268G mutant of human carboxypeptidase A1 and novel in vivo stable prodrugs of methotrexate. Smith GK, et al. **J Biol Chem** 1997 Jun 20;272(25):15804–16

Intracellular misrouting and abnormal secretion of adrenocorticotropin and growth hormone in cpefat mice associated with a carboxypeptidase E mutation. Shen FS, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5314–9

IMMUNOLOGY

Use of a resonant mirror biosensor to characterize the interaction of carboxypeptidase A with an elicited monoclonal antibody. Hall DR, et al. **Anal Biochem** 1997 Jan 1;244(1):152–60

Cloning of candidate autoantigen carboxypeptidase H from a human islet library: sequence identity with human brain CPH. Alcalde L, et al. **J Autoimmun** 1996 Aug;9(4):525–8

ISOLATION & PURIFICATION

Purification of Sxa2, a carboxypeptidase involved in pheromone recovery in fission yeast. Ladds G, et al. **Biochem Soc Trans** 1996 Aug;24(3):504S

A brain protein (P30) that immunoreacts with a polyclonal anti–pancreatic carboxypeptidase A antibody shows properties that are shared with tubulin carboxypeptidase. Weizetfel JC, et al. **Mol Cell Biochem** 1997 May; 170(1–2):139–46

METABOLISM

Cathepsin A activity of normal bovine ocular tissues and pathological human intraocular fluids. Obuchowska I, et al. **Acta Biochim Pol** 1996;43(4):687–92

Neuropeptide processing enzymes of the carotid body. Biochemical and immunological characterization of carboxypeptidase activity. Kumar GK. **Adv Exp Med Biol** 1996;410:319–23

Arazoformyl peptide surrogates as spectrophotometric kinetic assay substrates for carboxypeptidase A. Mock WL, et al. **Anal Biochem** 1996 Aug 1;239(2):218–22

The role of Sxa1 in pheromone recovery in Schizosaccharomyces pombe. Hughes M, et al. **Biochem Soc Trans** 1997 May;25(2):229S

Sxa2, a carboxypeptidase that degrades extracellular pheromone in fission yeast. Ladds G, et al. **Biochem Soc Trans** 1997 May;25(2):228S

Characterisation of Sxa2, a carboxypeptidase involved in pheromone recovery in fission yeast. Ladds G, et al. **Biochem Soc Trans** 1996 May;24(2):210S

Structure and dynamics of the metal site of cadmium–substituted carboxypeptidase A in solution and crystalline states and under steady–state peptide hydrolysis. Bauer R, et al. **Biochemistry** 1997 Sep 23;36(38):11514–24

Comparative modeling of substrate binding in the S1' subsite of serine carboxypeptidases from yeast, wheat, and human. Elsliger MA, et al. **Biochemistry** 1996 Nov 26; 35(47):14899–909

Pancreatic procarboxypeptidases: oligomeric structures and activation processes revisited. Ventura S, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):161–5 (31 ref.)

Properties of analogues of an intermediate in the process of mechanism–based inactivation of carboxypeptidase A. Ghosh SS, et al. **Bioorg Med Chem** 1996 Sep;4(9):1487–92

Cholecystokinin (CCK) levels are greatly reduced in the brains but not the duodenums of Cpe(fat)/Cpe(fat) mice: a regional difference in the involvement of carboxypeptidase E (Cpe) in pro–CCK processing. Cain BM, et al. **Endocrinology** 1997 Sep;138(9):4034–7

Exchange of regions of the carboxypeptidase Y propeptide. Sequence specificity and function in folding in vivo. Ramos C, et al. **Eur J Biochem** 1996 Nov 15;242(1):29–35

Characterization of Aplysia carboxypeptidase E. Juvvadi S, et al. **FEBS Lett** 1997 May 19;408(2):195–200

Degradation of bradykinin in human urine by carboxypeptidase Y–like exopeptidase and neutral endopeptidase and their inhibition by ebelactone B and phosphoramidon. Saito M, et al. **Int J Tissue React** 1995; 17(5–6):181–90

Vacuolar protein sorting in fission yeast: cloning, biosynthesis, transport, and processing of carboxypeptidase Y from Schizosaccharomyces pombe. Tabuchi M, et al. **J Bacteriol** 1997 Jul;179(13):4179–89

Association of N–acetylgalactosamine–6–sulfate sulfatase with the multienzyme lysosomal complex of beta–galactosidase, cathepsin A, and neuraminidase. Possible implication for intralysosomal catabolism of keratan sulfate. Pshezhetsky AV, et al. **J Biol Chem** 1996 Nov 8;271(45):28359–65

Tissue distribution and characterization of soluble and membrane–bound forms of metallocarboxypeptidase D. Song L, et al. **J Biol Chem** 1996 Nov 15;271(46):28884–9

Thrombin–mediated activation of factor XI results in a thrombin–activatable fibrinolysis inhibitor–dependent inhibition of fibrinolysis. Von dem Borne PA, et al.

CARBOXYPEPTIDASES

J Clin Invest 1997 May 15;99(10):2323–7

D–Phe complexes of zinc and cobalt carboxypeptidase A. Larsen KS, et al. **J Inorg Biochem** 1996 Nov 15; 64(3):149–62

Effect of immobilization on the penicillin binding and reactivity properties of DD–peptidase from Streptomyces R61. Eng GY, et al. **J Mol Recognit** 1996 Sep–Dec; 9(5–6):706–14

Identification of a membrane–bound carboxypeptidase as the mammalian homolog of duck gp180, a hepatitis B virus–binding protein. McGwire GB, et al. **Life Sci** 1997; 60(10):715–24

The association of tubulin carboxypeptidase activity with microtubules in brain extracts is modulated by phosphorylation/dephosphorylation processes. Sironi JJ, et al. **Mol Cell Biochem** 1997 May;170(1–2):9–16

The sxa2–dependent inactivation of the P–factor mating pheromone in the fission yeast Schizosaccharomyces pombe. Ladds G, et al. **Mol Microbiol** 1996 Apr;20(1):35–42

Carboxypeptidase e: a surprise player in protein sorting [news] Kling J. **Nat Biotechnol** 1997 Feb;15(2):128–9

A novel [125I]iodinated carboxypeptidase A substrate detects a metallopeptidase activity distinct from carboxypeptidase A in brain. Normant E, et al. **Neuropeptides** 1996 Feb; 30(1):13–7

Tomato (Lycopersicon esculentum cv. pik–red) leaf carboxypeptidase: identification, N–terminal sequence, stress–regulation, and specific localization in the paraveinal mesophyll vacuoles. Mehta RA, et al. **Plant Cell Physiol** 1996 Sep;37(6):806–15

A point mutation leads to altered product specificity in beta–lactamase catalysis. Lewis ER, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):443–7

N–Glycosylation affects endoplasmic reticulum degradation of a mutated derivative of carboxypeptidase yscY in yeast. Knop M, et al. **Yeast** 1996 Sep 30;12(12):1229–38

[Activity of basic arginine– and lysine–residue cleaving carboxypeptidase in rats of various ages] Vernigora AN, et al. **Biokhimiia** 1996 Oct;61(10):1848–56 (Eng. Abstr.) **(Rus)**

[Effect of glucocorticoids on activity of soluble and membrane–bound forms of carboxypeptidase H in vivo] Vernigora AN, et al. **Ukr Biokhim Zh** 1995 Nov–Dec; 67(6):93–7 (Eng. Abstr.) **(Rus)**

[Effect of ethanol, diazepam, and reserpine on the activity of angiotensin–converting enzyme and carboxypeptidase in normal state and during stress] Vernigora AN, et al. **Vopr Med Khim** 1996 Apr–Jun;42(2):127–30 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

On the mechanism of the antifibrinolytic activity of plasma carboxypeptidase B. Sakharov DV, et al. **J Biol Chem** 1997 May 30;272(22):14477–82

PHYSIOLOGY

Defining the role of Sxa1 during pheromone adaptation in Schizosaccharomyces pombe. Hughes M, et al. **Biochem Soc Trans** 1996 Aug;24(3):502S

Coagulation–dependent inhibition of fibrinolysis: role of carboxypeptidase–U and the premature lysis of clots from hemophilic plasma. Broze GJ Jr, et al. **Blood** 1996 Nov 15;88(10):3815–23

Carboxypeptidase E is a regulated secretory pathway sorting receptor: genetic obliteration leads to endocrine disorders in Cpe(fat) mice. Cool DR, et al. **Cell** 1997 Jan 10; 88(1):73–83

Thrombin, thrombomodulin and TAFI in the molecular link between coagulation and fibrinolysis. Nesheim M, et al. **Thromb Haemost** 1997 Jul;78(1):386–91 (50 ref.)

Characterization and glutamyl preferring carboxypeptidase function of prostate specific membrane antigen: a novel folate hydrolase. Heston WD. **Urology** 1997 Mar;49(3A Suppl):104–12

THERAPEUTIC USE

Carboxypeptidase–G2, thymidine, and leucovorin rescue in cancer patients with methotrexate–induced renal dysfunction. Widemann BC, et al. **J Clin Oncol** 1997 May; 15(5):2125–34

CARBUNCLE

see related
FURUNCULOSIS

COMPLICATIONS

[A comprehensive method for the early detection and differential diagnosis of the intracranial complications of suppurative diseases of the face and neck] Chevardov NI, et al. **Stomatologiia (Mosk)** 1996;Spec No:89–90 **(Rus)**

DIAGNOSIS

Picture of the month. Folliculitis, furunculosis, and carbuncles. Eley CD, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):625–6

MICROBIOLOGY

A case of carbuncle caused by a catalase–negative strain of staphylococcus aureus. Lee N, et al. **Diagn Microbiol Infect Dis** 1996 Apr;24(4):221–3

CARCINOEMBRYONIC ANTIGEN

Human carcinoembryonic antigen and biliary glycoprotein can serve as mouse hepatitis virus receptors. Chen DS, et al. **J Virol** 1997 Feb;71(2):1688–91

ANALYSIS

CA–125 and carcinoembryonic antigen assay vs. cytodiagnostic experience in the classification of benign ovarian cysts. Pinto MM, et al. **Acta Cytol** 1997 Sep–Oct; 41(5):1456–62

Ki–ras mutations and the carcinoembryonic antigen level in fine needle aspirates of the pancreas. Pinto MM, et al. **Acta Cytol** 1997 Mar–Apr;41(2):427–34 (26 ref.)

pCEA canalicular immunostaining in fine needle aspiration biopsy diagnosis of hepatocellular carcinoma. Wee A, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1147–55

Cytokeratins, CEA, and mucin histochemistry in the diagnosis and characterization of extramammary Paget's disease. Battles OE, et al. **Am J Clin Pathol** 1997 Jul; 108(1):6–12

Expression of p53 and CEA in atypical adenomatous hyperplasia of the lung [letter; comment] Pueblitz S, et al. **Am J Surg Pathol** 1997 Jul;21(7):867–8. Comment on: Am J Surg Pathol 1996 May;20(5):553–62.

Docetaxel enhances the expression of E–cadherin and carcinoembryonic antigen (CEA) on human colon cancer cell lines in vitro. Eckert K, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):7–12

Slope analysis of CA19–9 and CEA for predicting recurrence in colorectal cancer patients. Nakayama T, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1379–82

Detection of occult liver metastases in colorectal cancer by measurement of biliary carcinoembryonic antigen. Novell F, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2743–6

Independent prognostic value of preoperative serum markers CA 242, specific tissue polypeptide antigen and human chorionic gonadotrophin beta, but not of carcinoembryonic antigen or tissue polypeptide antigen in colorectal cancer. Carpelan–Holmström M, et al. **Br J Cancer** 1996 Sep; 74(6):925–9

Value of CA 15.3 in breast cancer and comparison with CEA and TPA: a study of specificity in disease–free follow–up patients and sensitivity in patients at diagnosis of the first metastasis. Vizcarra E, et al. **Breast Cancer Res Treat** 1996; 37(3):209–16

Devazepide (L–364718) inhibits growth and increases expression of tumor markers in HT29–S–B6 cells. Forgue–Lafitte ME, et al. **C R Acad Sci III** 1996 Dec; 319(12):1133–8

Some "tried and true" treatments challenged during Royal College meeting. Harrison P. **Can Med Assoc J** 1996 Dec 15;155(12):1725–7

Presence of elevated carcinoembryonic antigen on absorbent disks applied to nipple area of breast carcinoma patients. Imayama S, et al. **Cancer** 1996 Sep 15;78(6):1229–34

Breast carcinoma detection with a combination of radiolabeled monoclonal antibodies. Promising results from immunohistochemistry studies. Mangili F, et al. **Cancer** 1996 Dec 1;78(11):2334–9

Comparative studies of CAM 123–6 and carcinoembryonic antigen for the serological detection of pulmonary adenocarcinoma. Kohno N, et al. **Cancer Detect Prev** 1997; 21(2):124–8

Elevated level of carcinoembryonic antigen in nonmalignant pleural effusions. Garcia–Pachon E, et al. **Chest** 1997 Mar; 111(3):643–7

CA–125 in fine–needle aspirates of solid tumors: comparison with cytologic diagnosis and carcinoembryonic antigen (CEA) assay. Pinto MM, et al. **Diagn Cytopathol** 1996 Mar; 14(2):121–5

The usefulness of carcinoembryonic antigen in postoperative colorectal cancer patients [letter; comment] Nelson RL. **Dis Colon Rectum** 1997 Jul;40(7):866–7. Comment on: Dis Colon Rectum 1997 Feb;40(2):145–9.

Establishment and evaluation of a new chemiluminescent enzyme immunoassay for carcinoembryonic antigen adapted to the fully automated ACCESS system. Matsushita H, et al. **Eur J Clin Chem Clin Biochem** 1996 Oct;34(10):829–35

Detection of occult liver metastases by measurement of biliary carcinoembryonic antigen concentrations. Paul MA, et al. **Eur J Surg** 1996 Jun;162(6):483–8

CEA, CA 15–3 and CYFRA 21–1 in serum and pleural fluid of patients with pleural effusions. Romero S, et al. **Eur Respir J** 1996 Jan;9(1):17–23

Indicative value of carcinoembryonic antigen (CEA) for liver recurrence following curative resection of stage II and III gastric cancer. Ikeda Y, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1281–7

Endocervical tubal metaplasia and adenocarcinoma in situ: role of immunohistochemistry for carcinoembryonic antigen and vimentin in differential diagnosis. Marques T, et al. **Histopathology** 1996 Jun;28(6):549–50

Effect of hyperthermia on proliferation and deviation of carcinoembryonic antigen and squamous cell carcinoma–related antigen of human esophageal carcinoma cells in culture. Saito M, et al. **Hum Cell** 1996 Mar;9(1):63–8

CA 19.9, CA 242 and CEA in the diagnosis and follow–up of pancreatic cancer. Banfi G, et al. **Int J Biol Markers** 1996 Apr–Jun;11(2):77–81

Detection of gastric mucins (M1 antigens) in cyst fluid for the diagnosis of cystic lesions of the pancreas. Hammel PR, et al. **Int J Cancer** 1997 Jun 20;74(3):286–90

Molecular detection of circulating solid carcinoma cells in the peripheral blood: the concept of early systemic disease. Mori M, et al. **Int J Cancer** 1996 Dec 11;68(6):739–43

Decreased expression of biliary glycoprotein in hepatocellular carcinomas. Tanaka K, et al. **Int J Cancer** 1997 Feb 20;74(1):15–9

New scoring system using tumor markers in diagnosing patients with moderate pericardial effusions. Koh KK, et al. **Int J Cardiol** 1997 Aug 29;61(1):5–13

Carcinoembryonic antigen: its role in malignant extraintestinal neoplasms. Galbiati E, et al. **J Chemother** 1997 Apr;9(2):125–6

Ultrastructural localization of carcinoembryonic antigen (CEA) glycoproteins and epithelial membrane antigen (EMA) in normal and neoplastic sweat glands. Metze D, et al. **J Cutan Pathol** 1996 Dec;23(6):518–29

Mucinous biliary cystadenoma with mesenchymal stroma: expressions of CA 19–9 and carcinoembryonic antigen in serum and cystic fluid. Lee JH, et al. **J Gastroenterol** 1996 Oct;31(5):732–6 (22 ref.)

Variables influencing tumor dosimetry in radioimmunotherapy of CEA–expressing cancers with anti–CEA and antimucin monoclonal antibodies. Behr TM, et al. **J Nucl Med** 1997 Mar;38(3):409–18

Pharmacokinetics and experimental PET imaging of a bromine–76–labeled monoclonal anti–CEA antibody. Lövqvist A, et al. **J Nucl Med** 1997 Mar;38(3):395–401

Detection of carcinoembryonic antigen–expressing free tumor cells in peritoneal washes from patients with gastric carcinoma by polymerase chain reaction. Nakanishi H, et al. **Jpn J Cancer Res** 1997 Jul;88(7):687–92

Cytokeratins 7 and 20 and carcinoembryonic antigen in ovarian and colonic carcinoma. Berezowski K, et al. **Mod Pathol** 1996 Apr;9(4):426–9

Carcionoembryonic antigen and immunoglobulin IgE in coeliac disease, food allergy and dudenal ulcer disease in children. Romańczuk W, et al. **Rocz Akad Med Bialymst** 1995;40(3):655–61

[An immunohistochemical study of intestinal mucinous antigens and CEA in ovarian epithelial tumors] Liu A, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1995 Dec; 24(6):366–8 (Eng. Abstr.) **(Chi)**

[Matured mediastinal teratoma with high levels of tumor markers in cystic fluid] Ono Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1359–63 (Eng. Abstr.) **(Jpn)**

[Difference in expression of epithelial adhesion molecules between primary and metastatic lesions in small–cell lung cancer] Yoshida H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1077–83 (Eng. Abstr.) **(Jpn)**

[A case of mature retroperitoneal teratoma producing CEA] Iwai T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Jul; 93(7):491–5 (16 ref.) **(Jpn)**

[The level of embryonic antigens in the blood serum and cerebrospinal fluid of neuro–oncological patients] Rudenko VA, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul–Sep;(3):32–5 (Eng. Abstr.) **(Rus)**

[Tumor markers in medullary thyroid carcinoma. Biochemical and immunohistochemical study (letter)] López–Guzmán A, et al. **An Med Interna** 1996 Jul; 13(7):358–9 **(Spa)**

[The usefulness of determining carcinoembryonic antigen in the bile for the prognosis of the development of hepatic metastases following the resection of colorectal cancer (letter)] de Andrés García B, et al. **Med Clin (Barc)** 1997 Mar 15;108(10):396 **(Spa)**

[Immunogammagraphy with anti–CEA and anti–TAG–72 monoclonal antibodies in the diagnosis of colorectal carcinoma (see comments)] Muxí Pradas MA, et al. **Med Clin (Barc)** 1996 Nov 9;107(16):601–7 (Eng. Abstr.) . Comment in: Med Clin (Barc) 1996 Nov 9;107(16):617–9. **(Spa)**

[Carcinoembryonic antigen, CEA, in colorectal cancer. An insensitive marker which may be excluded from follow–ups] Wählby L. **Lakartidningen** 1997 Apr 30; 94(18):1716–8 (34 ref.) **(Swe)**

BIOSYNTHESIS

Dysregulation of carcinoembryonic antigen group members CGM2, CD66a (biliary glycoprotein), and nonspecific cross–reacting antigen in colorectal carcinomas. Comparative analysis by northern blot and in situ hybridization. Nollau P, et al. **Am J Pathol** 1997 Aug; 151(2):521–30

Induction of carcinoembryonic antigen expression in a three–dimensional culture system. Jessup JM, et al. **In Vitro Cell Dev Biol Anim** 1997 May;33(5):352–7

Cell–surface levels of human carcinoembryonic antigen are inversely correlated with colonocyte differentiation in colon carcinogenesis. Ilantzis C, et al. **Lab Invest** 1997 May; 76(5):703–16

Preparation and characterization of two human carcinoembryonic antigen family proteins of neutrophils, CD66b and c, in silkworm larvae. Yamanaka T, et al. **Protein Expr Purif** 1996 Jun;7(4):438–46

BLOOD

CEA, CA 19-9, and CA-50 in monitoring gastric carcinoma. Pectasides D, et al. **Am J Clin Oncol** 1997 Aug;20(4):348-53

Ultrasensitive heterogeneous immunoassay using photothermal deflection spectroscopy. 2. Quantitation of ultratrace carcinoembryonic antigen in human sera. Kimura H, et al. **Anal Chem** 1996 Sep 1;68(17):3063-7

Tumour markers in uraemia: carbohydrate antigen CA 72-4, carcinoembryonic antigen and carbohydrate antigen CA 19-9. Fernández-Fernández L, et al. **Ann Clin Biochem** 1996 Nov;33 (Pt 6):563-4

Resectable lung metastases from colorectal cancer: look at the serum CEA level! [letter; comment] Girard P, et al. **Ann Thorac Surg** 1996 Dec;62(6):1888-9. Comment on: Ann Thorac Surg 1992 May;53(5):780-5; discussion 785-6.

The evaluation of combined scintimammography and tumor markers in breast cancer patients. Mangkharak J, et al. **Anticancer Res** 1997 May-Jun;17(3B):1611-4

Evaluation of the IMMULITE BR-MA and CEA assays and comparison with immunoradiometric assays for CA15-3 and CEA in breast cancer. Murray A, et al. **Anticancer Res** 1997 May-Jun;17(3C):1945-9

A comparative study of serum alpha-beta A immunoreactive inhibin and tumor-associated antigens CA125 and CEA in ovarian cancer. Phocas I, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3827-31

CYFRA 21-1 is not superior to SCC antigen and CEA in head and neck squamous cell cancer. Wollenberg B, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3117-24

Serum carcinoembryonic antigen concentration doubling time correlates with tumor biology and life expectancy in patients with recurrent gastrointestinal carcinoma. Korenaga D, et al. **Arch Surg** 1997 Feb;132(2):188-94

Cellular fibronectin concentration in the plasma of patients with malignant and benign diseases: a comparison with CA 19-9 and CEA. Haglund C, et al. **Br J Cancer** 1997; 76(6):777-83

Utility of C-erbB-2 in tissue and in serum in the early diagnosis of recurrence in breast cancer patients: comparison with carcinoembryonic antigen and CA 15.3. Molina R, et al. **Br J Cancer** 1996 Oct;74(7):1126-31

Analysis of the early postoperative serum carcinoembryonic antigen time-course as a prognostic tool for bronchogenic carcinoma. Yoshimasu T, et al. **Cancer** 1997 Apr 15; 79(8):1533-40

Clinical evaluation of potential usefulness of CEA, CA 15-3, and MCA in follow-up of breast cancer patients. Jezersek B, et al. **Cancer Lett** 1996 Dec 20;110(1-2):137-44

Utility of CA 15-3 and CEA in monitoring breast cancer patients with bone metastases: special emphasis on "spiking" phenomena. Yasasever V, et al. **Clin Biochem** 1997 Feb; 30(1):53-6

Value of carcinoembryonic antigen monitoring in curative surgery for recurrent colorectal carcinoma [see comments] Lucha PA Jr, et al. **Dis Colon Rectum** 1997 Feb;40(2):145-9 . Comment in: Dis Colon Rectum 1997 Jul;40(7):866-7.

High dose hook effect and sample carryover in carcinoembryonic antigen assay performed on the Boehringer-Mannheim ES-300 automated immunoassay system [letter] Devine PL. **Eur J Clin Chem Clin Biochem** 1996 Jul;34(7):573-4

Within-subject variation of carcinoembryonic antigen in colorectal cancer -- application of reference of change values and individual reference ranges to patient follow-up. Mora J, et al. **Eur J Clin Chem Clin Biochem** 1997 Jun; 35(6):453-7

Tumour marker detection in oesophageal carcinoma. Mealy K, et al. **Eur J Surg Oncol** 1996 Oct;22(5):505-7

Prognostic significance of pretreatment squamous cell carcinoma antigen and carcinoembryonic antigen in squamous cell carcinoma of the uterine cervix. Bae SN, et al. **Gynecol Oncol** 1997 Mar;64(3):418-24

Preoperative differential diagnosis of benign and malignant pancreatic lesions--the value of pancreatic secretory trypsin inhibitor, procarboxypeptidase B, CA19-9 and CEA. Cerwenka H, et al. **Hepatogastroenterology** 1997 Jul-Aug;44(16):1117-21

Preoperative CEA and TAG-72 serum levels as prognostic indicators in resectable gastric carcinoma. González A, et al. **Int J Biol Markers** 1996 Jul-Sep;11(3):165-71

Pulmonary carcinoembryonic antigen (CEA) production in patients with end-stage lung diseases submitted to lung transplantation [letter] Ruffini E, et al. **Int J Biol Markers** 1997 Jan-Mar;12(1):44-5

Evaluation of serum carcinoembryonic antigen monitoring in the follow-up of colorectal cancer patients with metastatic lymph nodes and a normal preoperative serum level. Tobaruela E, et al. **Int J Biol Markers** 1997 Jan-Mar; 12(1):18-21

Receiver operating characteristic (ROC) curve analysis of the tumor markers CEA, CA 19-9 and CA 72-4 in gastric cancer. Fernández-Fernández L, et al. **Int Surg** 1996 Oct-Dec;81(4):400-2

The role of acute-phase reactant proteins, carcinoembryonic antigen and CA 19-9 as a marker in the preoperative staging of colorectal cancer: a prospective clinical study. Yüceyar S, et al. **Int Surg** 1996 Apr-Jun;81(2):136-9

Preoperative carcinoembryonic antigen predicts outcomes in node-negative colon cancer patients: a multivariate analysis of 572 patients. Harrison LE, et al. **J Am Coll Surg** 1997 Jul;185(1):55-9

The miniscule benefit of serial carcinoembryonic antigen monitoring after effective curative treatment for primary colorectal cancer. Wolf RF, et al. **J Am Coll Surg** 1997 Jul;185(1):60-4

Guidelines for the use of carcinoembryonic antigen in colorectal cancer [letter; comment] Atkins CD. **J Clin Oncol** 1997 Feb;15(2):863-4. Comment on: J Clin Oncol 1996 Oct;14(10):2843-77.

Mucinous cystadenoma of the appendix with raised serum carcinoembryonic antigen concentration: clinical and pathological features. Shimizu T, et al. **J Clin Pathol** 1997 Jul;50(7):613-4

Elevation of carcinoembryonic antigen and CA-125 in a patient with multivisceral tuberculosis. Mansour M, et al. **J Natl Med Assoc** 1997 Feb;89(2):142-3

Serum levels of squamous cell carcinoma antigen and carcinoembryonic antigen as tumor markers of vulvar cancer. Yamawaki T, et al. **J Obstet Gynaecol Res** 1996 Aug;22(4):341-6

A study of the effects of bowel preparation on CEA levels in patients undergoing surveillance colonoscopy. So JB, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):105-6

Serum tumor marker CYFRA 21-1 in the diagnostics of squamous cell lung cancer--comparison with CEA. Beržinec P, et al. **Neoplasma** 1996;43(3):159-61

Carcino-embryonic antigen--no help with the differential diagnosis. Cobben-Beld EG, et al. **Neth J Med** 1996 Mar; 48(3):96-9

Comparison of cytokeratin fragment 19 (CYFRA 21-1), tissue polypeptide antigen (TPA) and carcinoembryonic antigen (CEA) as tumour markers in bronchogenic carcinoma. Huang MS, et al. **Respir Med** 1997 Mar; 91(3):135-42

Evaluation of response to chemotherapy in patients affected with non-small cell lung cancer by means of three tumour markers elaborated by discriminant analysis. Paone G, et al. **Respir Med** 1997 Jul;91(6):361-7

Association between preoperative plasma CEA levels and the prognosis of gastric cancer following curative resection. Tumor Marker Committee, Japanese Foundation for Multidisciplinary Treatment of Cancer, Tokyo, Japan. Sakamoto J, et al. **Surg Oncol** 1996 Jun;5(3):133-9

Influence of neoadjuvant chemotherapy on serum tumor markers CA 15-3, MCA, CEA, TPS and TPA in breast cancer patients with operable disease. Bottini A, et al. **Tumour Biol** 1997;18(5):301-10

Significance of postoperative serum level of carcinoembryonic antigen (CEA) and actual half life of CEA in colorectal cancer patients. Choi JS, et al. **Yonsei Med J** 1997 Feb;38(1):1-7

[After-care of colorectal carcinoma--value of tumor markers] Köhne CH, et al. **Internist (Berl)** 1997 Apr; 38(4):363-5 **(Ger)**

[Adenocarcinoma of the bladder producing carcinoembryonic antigen and carbohydrate antigen 19-9: report of a case] Iwaki H, et al. **Hinyokika Kiyo** 1997 May; 43(5):355-8 (Eng. Abstr.) **(Jpn)**

[A case of CEA and CA19-9 producing recurrent transitional cell carcinoma in an Indiana pouch after total cystectomy] Miyoshi Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):961-4 (Eng. Abstr.) **(Jpn)**

[A case of renal cell carcinoma with an extremely high serum carcinoembryonic antigen level] Tanaka K, et al. **Hinyokika Kiyo** 1996 May;42(5):365-7 (Eng. Abstr.) **(Jpn)**

[A case of lung adenocarcinoma: detection and resection of the metastatic lesion was managed effectively by serum CEA level] Hiyoshi H, et al. **Kyobu Geka** 1996 Sep; 49(10):873-5 (Eng. Abstr.) **(Jpn)**

[Carcinoembryonic antigen and neutrophils in healthy smokers] Kashiwabara K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb;35(2):154-9 (Eng. Abstr.) **(Jpn)**

[A high CEA level in a case of Cronkhite-Canada syndrome, showing decrease by prednisolone treatment] Fukazawa M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):543-8 (18 ref.) **(Jpn)**

[Ca-19-9, carcinoembryonic antigen, and alpha-fetoprotein in the serum of nononcological patients and their clinical significance] Skvortsov SV, et al. **Biull Eksp Biol Med** 1997 May;123(5):566-9 **(Rus)**

[Value of serologic markers in the management of colorectal cancer (editorial)] Wainstein RC, et al. **Acta Gastroenterol Latinoam** 1995;25(5):309-10 **(Spa)**

CHEMISTRY

Site-directed mutagenesis within an ectoplasmic ATPase consensus sequence abrogates the cell aggregating properties of the rat liver canalicular bile acid transporter/ecto-ATPase/cell CAM 105 and carcinoembryonic antigen. Sippel CJ, et al. **J Biol Chem** 1996 Dec 20;271(51):33095-104

DIAGNOSTIC USE

Cancer imaging with radiolabeled antibodies: new advances with technetium-99m-labeled monoclonal antibody Fab' fragments, especially CEA-Scan and prospects for therapy. Goldenberg DM, et al. **J Nucl Med Technol** 1997 Mar; 25(1):18-23; quiz 34 (46 ref.)

[Carcinoembryonic antigen] Blanchon F. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S30-1 (6 ref.) **(Fre)**

[Value of tumor markers for screening and diagnosis (except prognostic and surveillance values) in primary bronchial cancers] Grivaux M. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S15-9 (41 ref.) **(Fre)**

[Value of serial tumor markers for the detection of recurrences] Quoix E. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S27-9 (32 ref.) **(Fre)**

[Which tumor markers should be used in primary bronchial cancers?] Schuller MP, et al. **Rev Mal Respir** 1997 Apr; 14 Suppl 3:S9-14 (29 ref.) **(Fre)**

[Value of tumor markers in surveillance of primary bronchial cancers and to evaluate therapy] Sculier JP. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S23-6 (29 ref.) **(Fre)**

[Value of serial tumor markers for determining the prognosis and predicting treatment response and survival] Souquet PJ. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S20-2 (23 ref.) **(Fre)**

[CAA 19-9 and carcinoembryonic antigen in gallbladder cancer] de Aretxabala X, et al. **Rev Med Chil** 1996 Jan; 124(1):11-20 (Eng. Abstr.) **(Spa)**

GENETICS

The 3' untranslated region of the carcinoembryonic antigen gene plays a minimal role in the regulation of gene expression. Bordonaro M, et al. **Cell Growth Differ** 1997 Mar;8(3):353-60

Radical differences in functions of closely related members of the human carcinoembryonic antigen gene family. Rojas M, et al. **Cell Growth Differ** 1996 May;7(5):655-62

Tumor-specific gene expression in carcinoembryonic antigen--producing gastric cancer cells using adenovirus vectors. Lan KH, et al. **Gastroenterology** 1996 Nov; 111(5):1241-51

Selected strategies to augment polynucleotide immunization. Conry RM, et al. **Gene Ther** 1996 Jan;3(1):67-74

Enhancement of radiolabeled antibody binding and tumor localization through adenoviral transduction of the human carcinoembryonic antigen gene. Raben D, et al. **Gene Ther** 1996 Jul;3(7):567-80

Decreased sensitivity of carcinoembryonic antigen cDNA-transfected cells to adriamycin. Kawaharata H, et al. **Int J Cancer** 1997 Jul 17;72(2):377-82

Influence of spatial configuration on the expression of carcinoembryonic antigen and mucin antigens in human bladder cancer. LaRue H, et al. **Int J Cancer** 1997 Jun 11;71(6):986-92

Expression of transgenic carcinoembryonic antigen (CEA) in tumor-prone mice: an animal model for CEA-directed tumor immunotherapy. Thompson JA, et al. **Int J Cancer** 1997 Jul 3;72(1):197-202

Adoptive immunotherapy as an in vivo model to explore antitumor mechanisms induced by a recombinant anticancer vaccine. Abrams SI, et al. **J Immunother** 1997 Jan;20(1):48-59

Drug-induced changes of carcinoembryonic antigen expression in human cancer cells: effect of 5-fluorouracil. Prete SP, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1574-81

Identification of carcinoembryonic antigen mRNA in circulating peripheral blood of pancreatic carcinoma and gastric carcinoma patients. Funaki NO, et al. **Life Sci** 1996; 59(25-26):2187-99

IMMUNOLOGY

Studies of breast cancer imaging with radiolabeled antibodies to carcinoembryonic antigen. Immunomedics Breast Cancer Study Group. Goldenberg DM, et al. **Acta Med Austriaca** 1997;24(2):55-9

Results of a phase I trial of a recombinant vaccinia virus that expresses carcinoembryonic antigen in patients with advanced colorectal cancer. McAneny D, et al. **Ann Surg Oncol** 1996 Sep;3(5):495-500

A mouse/human-chimeric bispecific antibody reactive with human carcinoembryonic antigen-expressing cells and human T-lymphocytes. Kuwahara M, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2661-7

Development of a streptavidin-anti-carcinoembryonic antigen antibody, radiolabeled biotin pretargeting method for radioimmunotherapy of colorectal cancer. Reagent development. Karacay H, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):585-94

Development of a streptavidin-anti-carcinoembryonic antigen antibody, radiolabeled biotin pretargeting method for radioimmunotherapy of colorectal cancer. Studies in a human colon cancer xenograft model. Sharkey RM, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):595-604

Preparation, characterisation and tumour targeting of cross-linked divalent and trivalent anti-tumour Fab' fragments. Casey JL, et al. **Br J Cancer** 1996 Nov; 74(9):1397-405

Strategies for the development of recombinant vaccines for the immunotherapy of breast cancer. Schlom J, et al. **Breast Cancer Res Treat** 1996;38(1):27-39 (36 ref.)

Phase I/II trial of combined 131I anti-CEA monoclonal antibody and hyperthermia in patients with advanced colorectal adenocarcinoma. Mittal BB, et al. **Cancer** 1996 Nov 1;78(9):1861-70

Analysis of specific accumulation of radiolabeled anti-carcinoembryonic antigen monoclonal antibody CEA 102 in colorectal cancer using computed radiography. Watanabe T, et al. **Cancer Detect Prev** 1997;21(4):346-54

Carcinoembryonic antigen as a target for cancer vaccines. Hodge JW. **Cancer Immunol Immunother** 1996 Nov; 43(3):127–34 (32 ref.)
Induction of antitumor immunity by an anti–idiotype antibody mimicking carcinoembryonic antigen. Pervin S, et al. **Cancer Res** 1997 Feb 15;57(4):728–34
Cytokine targeting in tumors using a bispecific antibody directed against carcinoembryonic antigen and tumor necrosis factor alpha. Robert B, et al. **Cancer Res** 1996 Oct 15;56(20):4758–65
Novel flow cytometric analysis of the progress and route of internalization of a monoclonal anti–carcinoembryonic antigen (CEA) antibody. Ford CH, et al. **Cytometry** 1996 Mar 1;23(3):228–40
Phase I study of recombinant CEA vaccinia virus vaccine with post vaccination CEA peptide challenge. Cole DJ, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1381–94
Identification of potential HLA–A *0201 restricted CTL epitopes derived from the epithelial cell adhesion molecule (Ep–CAM) and the carcinoembryonic antigen (CEA). Ras E, et al. **Hum Immunol** 1997 Mar;53(1):81–9
Relationship between ZCE 025 blood clearance and liver accumulation in patients with colorectal cancer. Slater JB, et al. **Immunopharmacology** 1996 Nov;35(2):111–8
Comparative targeting of human colon–carcinoma multicell spheroids using one– and two–step (bispecific antibody) techniques. Devys A, et al. **Int J Cancer** 1996 Sep 17; 67(6):883–91
Targeting immunotherapy using the avidin–biotin system for a human colon adenocarcinoma in vitro. Nakaki M, et al. **J Int Med Res** 1997 Jan–Feb;25(1):14–23
Phase I/II clinical radioimmunotherapy with an iodine–131–labeled anti–carcinoembryonic antigen murine monoclonal antibody IgG. Behr TM, et al. **J Nucl Med** 1997 Jun;38(6):858–70
Comparison of copper–67– and iodine–125–labeled anti–CEA monoclonal antibody biodistribution in patients with colorectal tumors. Delaloye AB, et al. **J Nucl Med** 1997 Jun;38(6):847–53
Imaging of recurrent intestinal carcinoma with indium–111–labeled anti–carcinoembryonic antigen monoclonal antibody CEA102. Nakada K, et al. **Jpn J Cancer Res** 1997 Jun;88(6):605–13
A freeze dried kit formulation for the preparation of 99mTc–EHDP–MoAb–IOR CEA1 complex. Ferro–Flores G, et al. **Nucl Med Biol** 1994 Oct;21(7):1013–6
Tumor–specific accumulation of 125I–labeled mouse–human chimeric anti–CEA antibody in a xenografted human cancer model demonstrated by whole–body autoradiography and immunostaining. Haruno M, et al. **Nucl Med Biol** 1996 Aug;23(6):821–6
Radioimmunoscintigraphy using technetium–99m–labeled parental mouse and mouse–human chimeric antibodies to carcinoembryonic antigen in athymic nude mice bearing tumor. Karube Y, et al. **Nucl Med Biol** 1996 Aug; 23(6):753–9
Pre–clinical and clinical studies of two new bifunctional chelating agents for immunoscintigraphy with 111In–anti–CEA monoclonal antibody. Faivre–Chauvet A, et al. **Nucl Med Commun** 1996 Sep;17(9):781–9
The induction of cytotoxicity by a bispecific antibody against CEA positive cell line, in vitro. Hideshima T, et al. **Surg Today** 1996;26(2):83–8
Diversified prime and boost protocols using recombinant vaccinia virus and recombinant non–replicating avian pox virus to enhance T–cell immunity and antitumor responses. Hodge JW, et al. **Vaccine** 1997 Apr–May;15(6–7):759–68
[Probe–guided surgery of colorectal carcinoma] Lechner P. **Acta Med Austriaca** 1997;24(2):68–72 (Eng. Abstr.) **(Ger)**
[Clinical relevance of immunoscintigraphy with 99mTc–labelled anti–CEA antigen–binding fragments in the follow–up of patients with colorectal carcinoma. Assessment of surgical resectability with a combination of conventional imaging methods] Behr TM, et al. **Dtsch Med Wochenschr** 1997 Apr 11;122(15):463–70 (Eng. Abstr.) **(Ger)**
[Diagnosis of local recurrence of colorectal cancer, using PET and immunoscintigraphy by means of 131I or 111In anti–CEA monoclonal antibody] Ito K, et al. **Nippon Geka Gakkai Zasshi** 1997 Mar;98(3):373–9 (Eng. Abstr.) **(Jpn)**
[New approaches in evaluating the antitumor immune response in breast cancer] Glushkov AN, et al. **Vopr Onkol** 1996;42(6):33–6 (Eng. Abstr.) **(Rus)**

METABOLISM

Regulation of carcinoembryonic antigen expression in human colon carcinoma cells by the organ microenvironment. Kitadai Y, et al. **Am J Pathol** 1996 Oct;149(4):1157–66
Expression of tumor–related antigens Lewis(a) Lewis(b), X, Y, Span–1 and CEA in relation to differentiation and prognosis in rectal adenocarcinomas. Sun XF, et al. **APMIS** 1996 Nov;104(11):784–8
Processing of carcinoembryonic antigen by Kupffer cells: recognition of a penta–peptide sequence. Gangopadhyay A, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):151–7
Accumulation of NCC–CO–411 monoclonal antibody in human colorectal adenocarcinoma through binding of the released carcinoembryonic antigen in nude mice. Wang DS, et al. **Biol Pharm Bull** 1996 Jul;19(7):915–21
ADP–ribosylation of serum proteins: evaluation as a potential tumor marker. Albeniz IU, et al. **Cancer Lett** 1996 Nov 29;108(2):239–45
CD66 carcinoembryonic antigens mediate interactions between Opa–expressing Neisseria gonorrhoeae and human polymorphonuclear phagocytes. Gray–Owen SD, et al. **EMBO J** 1997 Jun;16(12):3435–45
Carcino–embryonic antigen in monitoring the growth of human colon adenocarcinoma tumour cells SK–CO–1 and HT–29 in vitro and in nude mice. Sölétormos G, et al. **Eur J Cancer** 1997 Jan;33(1):108–14
Identification of carcinoembryonic antigen–producing cells circulating in the blood of patients with colorectal carcinoma by reverse transcriptase polymerase chain reaction. Jonas S, et al. **Gut** 1996 Nov;39(5):717–21
Immunohistochemical localisation of carcinoembryonic antigen (CEA) in malignant epithelial ovarian tumours using monoclonal antibodies. Gogate N, et al. **Indian J Pathol Microbiol** 1995 Apr;38(2):199–201
Several carcinoembryonic antigens (CD66) serve as receptors for gonococcal opacity proteins. Chen T, et al. **J Exp Med** 1997 May 5;185(9):1557–64
Alpha–fetoprotein, carcinoembryonic antigen, and carbohydrate antigen 19–9–producing gallbladder cancer. Ono T, et al. **J Gastroenterol** 1996 Oct;31(5):742–6 (14 ref.)
Differential distribution of galactosylceramide, H antigen, and carcinoembryonic antigen in rhesus macaque digestive mucosa. Butor C, et al. **J Histochem Cytochem** 1996 Sep; 44(9):1021–31
Heterogeneous expression of carcinoembryonic antigen in the normal colon and upregulation in active ulcerative colitis. Smithson JE, et al. **J Pathol** 1996 Oct;180(2):146–51
Immunohistochemical staining for Ki–67 antigen, carcinoembryonic antigen, and p53 in the differential diagnosis of glandular lesions of the cervix. Cina SJ, et al. **Mod Pathol** 1997 Mar;10(3):176–80
Immunoelectron microscopic demonstration of regulated pathway for calcitonin and constitutive pathway for carcinoembryonic antigen in the same cells of human medullary carcinomas of thyroid glands. Osamura RY, et al. **Mod Pathol** 1997 Jan;10(1):7–11
Thyroid radiation doses during radioimmunotherapy of CEA–expressing tumours with 131I–labelled monoclonal antibodies. Behr TM, et al. **Nucl Med Commun** 1996 Sep; 17(9):767–80
Association of biliary glycoprotein with protein tyrosine phosphatase SHP–1 in malignant colon epithelial cells. Beauchemin N, et al. **Oncogene** 1997 Feb 20;14(7):783–90
Direct in vivo measurement of targeted binding in a human tumor xenograft. Berk DA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1785–90
CGM1a antigen of neutrophils, a receptor of gonococcal opacity proteins. Chen T, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14851–6
Comparison by carcinoembryonic antigen doubling time of hepatic injection and infusion for unresectable hepatic metastasis from colorectal cancer. Ichikawa W, et al. **Surg Oncol** 1995;4(5):271–6
Spike glycoprotein–mediated fusion in biliary glycoprotein–independent cell–associated spread of mouse hepatitis virus infection. Nash TC, et al. **Virology** 1996 Sep 1;223(1):68–78
[Diagnostic utility of carcinoembryonic antigen, neuron–specific enolase and squamous cell carcinoma antigen in malignant pleural effusion] Sánchez de Cos Escuin J, et al. **An Med Interna** 1996 Aug;13(8):369–73 (Eng. Abstr.) **(Spa)**

PHARMACOLOGY

Carcinoembryonic antigen induces signal transduction in Kupffer cells. Gangopadhyay A, et al. **Cancer Lett** 1997 Sep 16;118(1):1–6
Carcinoembryonic antigen induces cytokine expression in Kuppfer cells: implications for hepatic metastasis from colorectal cancer. Gangopadhyay A, et al. **Cancer Res** 1996 Oct 15;56(20):4805–10

PHYSIOLOGY

Expression of transduced carcinoembryonic antigen gene in human rhabdomyosarcoma inhibits metastasis. Landuzzi L, et al. **Cancer Res** 1996 Oct 1;56(19):4503–8
Adhesive function of carcinoembryonic antigen in the liver metastasis of KM–12c colon carcinoma cell line. Kim JC, et al. **Dis Colon Rectum** 1997 Aug;40(8):946–53
Differential recognition of members of the carcinoembryonic antigen family by Opa variants of Neisseria gonorrhoeae. Bos MP, et al. **Infect Immun** 1997 Jun;65(6):2353–61
The carcinoembryonic antigen (CEA) modulates effector–target cell interaction by binding to activated lymphocytes. Kammerer R, et al. **Int J Cancer** 1996 Nov 15;68(4):457–63
Carcinoembryonic antigen, a human tumor marker, cooperates with Myc and Bcl–2 in cellular transformation. Screaton RA, et al. **J Cell Biol** 1997 May 19;137(4):939–52

THERAPEUTIC USE

Phase Ia trial of a polynucleotide anti–tumor immunization to human carcinoembryonic antigen in patients with metastatic colorectal cancer. Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, Alabama. **Hum Gene Ther** 1996 Apr 10; 7(6):755–72

CARCINOGEN MARKERS see **TUMOR MARKERS, BIOLOGICAL**

CARCINOGENICITY TESTS

see related
MUTAGENICITY TESTS

The relative susceptibility of animals and humans to the carcinogenic hazard posed by exposure to 2,3,7,8–TCDD: an analysis using standard and internal measures of dose. Hays SM, et al. **Chemosphere** 1997 Mar–Apr; 34(5–7):1507–22
The 2nd NIEHS Predictive–Toxicology Evaluation Experiment: 30 chemical carcinogenicity bioassays. **Environ Health Perspect** 1996 Oct;104 Suppl 5:999–1112
Prediction of rodent carcinogenicity for 30 chemicals. Ashby J. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1101–4
Prediction of rodent carcinogenicity of further 30 chemicals bioassayed by the U.S. National Toxicology Program. Benigni R, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1041–4
The NIEHS Predictive–Toxicology Evaluation Project. Bristol DW, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1001–10
Multicomponent criteria for predicting carcinogenicity: dataset of 30 NTP chemicals. Huff J, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1105–12
A RASH analysis of National Toxicology Program data: predictions for 30 compounds to be tested in rodent carcinogenesis experiments. Jones TD, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1017–30
Use of the Syrian hamster embryo cell transformation assay for carcinogenicity prediction of chemicals currently being tested by the National Toxicology Program in rodent bioassays. Kerckaert GA, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1075–84
Prediction of rodent carcinogenicity bioassays from molecular structure using inductive logic programming. King RD, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1031–40
Carcinogenicity predictions for a group of 30 chemicals undergoing rodent cancer bioassays based on rules derived from subchronic organ toxicities. Lee Y, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1059–63
COMPACT and molecular structure in toxicity assessment: a prospective evaluation of 30 chemicals currently being tested for rodent carcinogenicity by the NCI/NTP. Lewis DF, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1011–6
Prediction of rodent carcinogenicity using the DEREK system for 30 chemicals currently being tested by the National Toxicology Program. The DEREK Collaborative Group. Marchant CA. **Environ Health Perspect** 1996 Oct; 104 Suppl 5:1065–73
Prediction of the rodent carcinogenicity of organic compounds from their chemical structures using the FALS method. Moriguchi I, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1051–8
Current cytogenetic methods for detecting exposure and effects of mutagens and carcinogens. Natarajan AT, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:445–8 (24 ref.)
A mechanism–mediated model for carcinogenicity: model content and prediction of the outcome of rodent carcinogenicity bioassays currently being conducted on 25 organic chemicals. Purdy R. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1085–94
Predictions for the outcome of rodent carcinogenicity bioassays: identification of trans–species carcinogens and noncarcinogens. Tennant RW, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1095–100
Prediction of the carcinogenicity of a second group of organic chemicals undergoing carcinogenicity testing. Zhang YP, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1045–50
Genetic toxicity and carcinogenicity studies of Kathon [letter; comment] Longacre SL, et al. **Environ Mol Mutagen** 1997;29(3):331–3. Comment on: Environ Mol Mutagen 1996;28(2):127–32.
RITA—registry of industrial toxicology animal–data—guides for organ sampling and trimming procedures in rats. Bahnemann R, et al. **Exp Toxicol Pathol** 1995 Sep; 47(4):247–66
Results of current intraperitoneal carcinogenicity studies with mineral and vitreous fibres. Roller M, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):3–12
Perinatal lung carcinogenesis in mice: in vivo and in vitro correlation. Turusov VS, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):244–6
Rapid carcinogenicity testing system with transgenic mice harboring human prototype c–HRAS gene. Yamamoto S, et al. **Lab Anim Sci** 1997 Apr;47(2):121–6
Future approaches to genetic toxicology risk assessment. Elespuru RK. **Mutat Res** 1996 Sep;365(1–3):191–204 (100 ref.)
Risk assessment and the use of information on underlying biologic mechanisms: a perspective. Rhomberg L. **Mutat Res** 1996 Sep;365(1–3):175–89 (49 ref.)
Methods for predicting carcinogenic hazards: new opportunities coming from recent developments in molecular oncology and SAR studies. Taningher M, et al. **Mutat Res** 1997 Jun 13;391(1–2):3–32 (204 ref.)

Challenge to the simple paradigm that 'carcinogens' are 'mutagens' and to the in vitro and in vivo assays used to test the paradigm. Trosko JE. **Mutat Res** 1997 Feb 3; 373(2):245–9 (44 ref.)
Fat rats and carcinogenesis screening. Festing MF. **Nature** 1997 Jul 24;388(6640):321–2
Fat (and thin) rats distort results [letter] Turturro A, et al. **Nature** 1997 Sep 25;389(6649):326
On the correlation coefficient between the TD50 and the MTD. Razzaghi M, et al. **Risk Anal** 1996 Feb;16(1):107–13
Global tests for analysis of multiple tumour data from animal carcinogenicity experiments. Chen JJ. **Stat Med** 1996 Jun 15;15(11):1217–25
A critical appraisal of the value of the mouse cancer bioassay in safety assessment. Alden CL, et al. **Toxicol Pathol** 1996 Nov–Dec;24(6):722–5 (18 ref.)
FDA points-to-consider documents: the need for dietary control for the reduction of experimental variability within animal assays and the use of dietary restriction to achieve dietary control. Allaben WT, et al. **Toxicol Pathol** 1996 Nov–Dec;24(6):776–81
Cell transformation assays as predictors of carcinogenic potential [letter] Ashby J. **Toxicol Pathol** 1997 May–Jun; 25(3):334–5
Selected lesions of dioxin in laboratory rodents. Mann PC. **Toxicol Pathol** 1997 Jan–Feb;25(1):72–9 (25 ref.)
The contribution of the mouse in hazard identification studies. Maronpot RR, et al. **Toxicol Pathol** 1996 Nov–Dec; 24(6):726–31 (17 ref.)
Diet: the neglected variable in chemical safety evaluations. Newberne PM, et al. **Toxicol Pathol** 1996 Nov–Dec; 24(6):746–56 (32 ref.)
Rationale for the use of dietary control in toxicity studies—B6C3F1 mouse. Turturro A, et al. **Toxicol Pathol** 1996 Nov–Dec;24(6):769–75 (49 ref.)
Rat or mouse cancer bioassay—or none of the above? [editorial] Ward JM. **Toxicol Pathol** 1996 Nov–Dec; 24(6):734–5

METHODS

A modified method of carcinogenesis induction in the DMBA hamster cheek pouch model of squamous neoplasia. Heller B, et al. **Am J Surg** 1996 Dec;172(6):678–80
Use of historical controls in time-adjusted trend tests for carcinogenicity. Ibrahim JG, et al. **Biometrics** 1996 Dec; 52(4):1478–85
Benzo[c]phenanthrene is activated to DNA-binding diol epoxides in the human mammary carcinoma cell line MCF-7 but only limited activation occurs in mouse skin. Einolf HJ, et al. **Carcinogenesis** 1996 Oct;17(10):2237–44
Short-term carcinogenicity testing of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) and 2-amino-3-methylimidazo[4,5-f]quinoline (IQ) in E(mu)-pim-1 transgenic mice. Sørensen IK, et al. **Carcinogenesis** 1996 Oct;17(10):2221–7
Cancer risk assessment: historical perspectives, current issues, and future directions. Velazquez SF, et al. **Drug Chem Toxicol** 1996 Aug;19(3):161–85 (106 ref.)
Comparison of 17 methods of predicting the carcinogenicity of 30 chemicals [letter] Ashby J. **Environ Health Perspect** 1997 May;105(5):466–7
Principles for the selection of doses in chronic rodent bioassays. ILSI Risk Science Working Group on Dose Selection. Foran JA. **Environ Health Perspect** 1997 Jan; 105(1):18–20
Monte Carlo results for the 3-poly test for animal carcinogenicity experiments. Tan WY, et al. **Environ Health Perspect** 1996 Aug;104(8):872–7
Predicting rodent carcinogenicity from mutagenic potency measured in the Ames Salmonella assay. Fetterman BA, et al. **Environ Mol Mutagen** 1997;29(3):312–22 (23 ref.)
New diet (NTP-2000) for rats in the National Toxicology Program toxicity and carcinogenicity studies. Rao GN. **Fundam Appl Toxicol** 1996 Jul;32(1):102–8
Alternatives to the 2-species bioassay for the identification of potential human carcinogens. Ashby J. **Hum Exp Toxicol** 1996 Mar;15(3):183–202 (67 ref.)
Initiation-promotion model for assessment of carcinogenicity: medium-term liver bioassay in rats for rapid detection of carcinogenic agents. Imaida K, et al. **J Toxicol Sci** 1996 Dec;21(5):483–7 (38 ref.)
Assessment of carcinogenicity using transgenic animals. Mitsumori K, et al. **J Toxicol Sci** 1996 Dec;21(5):479–82 (6 ref.)
Case study of carcinogenicity by initiation-promotion model. Mutai M, et al. **J Toxicol Sci** 1996 Dec;21(5):489–92 (6 ref.)
The low pH Syrian hamster embryo (SHE) cell transformation assay: a revitalized role in carcinogen prediction. Aardema MJ, et al. **Mutat Res** 1996 Sep 21; 356(1):5–9 (16 ref.)
The first US National Toxicology Program exercise on the prediction of rodent carcinogenicity: definitive results. Benigni R. **Mutat Res** 1997 Aug;387(1):35–45
Comparison of the standard and reduced pH Syrian hamster embryo (SHE) cell in vitro transformation assays in predicting the carcinogenic potential of chemicals. Isfort RJ, et al. **Mutat Res** 1996 Sep 21;356(1):11–63 (262 ref.)
Application of in vitro cell transformation assays to predict the carcinogenic potential of chemicals. Isfort RJ, et al. **Mutat Res** 1996 Sep;365(1–3):161–73 (84 ref.)
A comprehensive protocol for conducting the Syrian hamster embryo cell transformation assay at pH 6.70. Kerckaert GA, et al. **Mutat Res** 1996 Sep 21;356(1):65–84
The pH 6.7 Syrian hamster embryo cell transformation assay for assessing the carcinogenic potential of chemicals. LeBoeuf RA, et al. **Mutat Res** 1996 Sep 21;356(1):85–127 (105 ref.)
Evaluation of transgenic mouse bioassays for identifying carcinogens and noncarcinogens. Tennant RW, et al. **Mutat Res** 1996 Sep;365(1–3):119–27 (36 ref.)
Role of disrupted gap junctional intercellular communication in detection and characterization of carcinogens. Yamasaki H. **Mutat Res** 1996 Sep;365(1–3):91–105 (107 ref.)
Use of the Syrian hamster embryo (SHE) cell transformation assay for predicting the carcinogenic potential of chemicals. Introduction. Yamasaki H. **Mutat Res** 1996 Sep 21; 356(1):1–3
Preliminary experimental findings using intraperitoneal assays to determine carcinogenic potential of man made mineral fibres: relevance to recent proposals for classification testing [letter; comment] Pott F, et al. **Occup Environ Med** 1996 Oct;53(10):718–9. Comment on: Occup Environ Med 1995 Oct;52(10):700–1.
T25: a simplified carcinogenic potency index: description of the system and study of correlations between carcinogenic potency and species/site specificity and mutagenicity. Dybing E, et al. **Pharmacol Toxicol** 1997 Jun;80(6):272–9
Chronic inhalation toxicity and carcinogenicity testing of respirable fibrous particles. Workshop report. Vu V, et al. **Regul Toxicol Pharmacol** 1996 Dec;24(3):202–12 (5 ref.)
Continuing development of fish species as additional experimental models in cancer research. Couch JA. **Toxicol Pathol** 1996 Sep–Oct;24(5):602
Minisymposium on emerging methods in cancer hazard identification. Dragan Y. **Toxicol Pathol** 1997 Mar–Apr; 25(2):238
Two-year and lifetime toxicity and carcinogenicity studies of ozone in B6C3F1 mice. Herbert RA, et al. **Toxicol Pathol** 1996 Sep–Oct;24(5):539–48
The effects of diet, ad libitum overfeeding, and moderate dietary restriction on the rodent bioassay: the uncontrolled variable in safety assessment. Keenan KP, et al. **Toxicol Pathol** 1996 Nov–Dec;24(6):757–68 (49 ref.)
Safety assessment of pharmaceuticals: examples of inadequate assessments and a mechanistic approach to assuring adequate assessment. Williams GM. **Toxicol Pathol** 1997 Jan–Feb;25(1):32–8 (63 ref.)

STANDARDS

Purpose and guidelines for toxicokinetic studies within the National Toxicology Program. Buchanan JR, et al. **Environ Health Perspect** 1997 May;105(5):468–71 (4 ref.)
Testing for carcinogenicity of pharmaceuticals. Usui T, et al. **J Toxicol Sci** 1996 Dec;21(5):475–8 (3 ref.)

STATISTICS & NUMERICAL DATA

Body weight-tumor incidence correlations in long-term rodent carcinogenicity studies. Haseman JK, et al. **Toxicol Pathol** 1997 May–Jun;25(3):256–63

TRENDS

Identifying potential human carcinogens—the role of genetically altered rodents. Ashby J. **Toxicol Pathol** 1997 Mar–Apr;25(2):241–3 (3 ref.)
Continuing development of fish species as additional experimental models in cancer research. Couch JA. **Toxicol Pathol** 1996 Sep–Oct;24(5):602
Minisymposium on emerging methods in cancer hazard identification. Dragan Y. **Toxicol Pathol** 1997 Mar–Apr; 25(2):238
Evolving picture of carcinogenicity evaluation within the Food and Drug Administration. Schwetz B. **Toxicol Pathol** 1997 Mar–Apr;25(2):239
Identifying carcinogens—a strategy for use of abbreviated models. Tennant R. **Toxicol Pathol** 1997 Mar–Apr; 25(2):240–1
Emerging issues in mouse liver carcinogenesis. Ward JM, et al. **Toxicol Pathol** 1996 Jan–Feb;24(1):129–37 (87 ref.)

CARCINOGENS

see related
ANTICARCINOGENIC AGENTS
COCARCINOGENESIS
MUTAGENS
ONCOGENIC VIRUSES

Chromium as an industrial carcinogen: Part I. Mancuso TF. **Am J Ind Med** 1997 Feb;31(2):129–39
Lung mesothelial cell and fibroblast responses to pleural and alveolar macrophage supernatants and to lavage fluids from crocidolite-exposed rats. Adamson IY, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):650–6
Regulatory implications: U.S. Environmental Protection Agency. Fenner-Crisp PA. **Ann N Y Acad Sci** 1996 Dec 27;804:636–40
Hepatocarcinogenesis of peroxisome proliferators. Rao MS, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:573–87 (142 ref.)
Food safety regulation: reforming the Delaney Clause. Merrill RA. **Annu Rev Public Health** 1997;18:313–40 (70 ref.)
The inhibitory effect of selenium on induction of tetraploidy by dimethylarsinic acid in Chinese hamster cells. Ueda H, et al. **Anticancer Res** 1997 May–Jun;17(3C):1939–43
An assessment of the tumorigenic properties of a Hudson County soil sample heavily contaminated with hexavalent chromium. Snyder CA, et al. **Arch Environ Health** 1997 May–Jun;52(3):220–6
Changes of expressions of phosphotyrosine phosphatases in rat hepatocellular carcinoma induced by 3'-methyl-4-dimethylamino-azobenzene. Saito S, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):406–12
The effects of 50 Hz magnetic field exposure on dimethylbenz(alpha)anthracene induced thymic lymphoma/leukemia in mice. Shen YH, et al. **Bioelectromagnetics** 1997;18(5):360–4
Indomethacin is a potent inhibitor of pristane and plastic disc induced plasmacytomagenesis in a hypersusceptible BALB/c congenic strain. Potter M, et al. **Blood** 1997 Jul 1;90(1):260–9
Meat intake, heterocyclic amines, and risk of breast cancer: a case-control study in Uruguay. De Stefani E, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):573–81
Predictive value of molecular dosimetry: individual versus group effects of oltipraz on aflatoxin-albumin adducts and risk of liver cancer. Kensler TW, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):603–10
K-ras codon 12 and 61 point mutations in bromodeoxyuridine- and N-nitrosomethylurea-induced rat renal mesenchymal tumors. Calvert RJ, et al. **Cancer Lett** 1996 Dec 3;109(1–2):1–7
Synthesis and bioassay of 4-ipomeanol analogs as potential chemopreventive agents against 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK)-induced tumorigenicity in A/J mice. Desai D, et al. **Cancer Lett** 1996 Nov 29;108(2):263–70
Potentiation of aflatoxin B1-induced hepatocarcinogenesis in the rat by pretreatment with buthionine sulfoximine. Hiruma S, et al. **Cancer Lett** 1997 Feb 26;113(1–2):103–9
Enhancement by neurotensin of hepatocarcinogenesis by N-nitrosomorpholine in Sprague-Dawley rats. Nakaizumi A, et al. **Cancer Lett** 1996 Dec 20;110(1–2):57–61
Lack of involvement of p53 gene mutations in N-methyl-N-nitrosourea-induced bladder tumor progression in N-butyl-N-(4-hydroxybutyl)nitrosamine-treated rats and no suppression by indomethacin. Ozaki M, et al. **Cancer Lett** 1997 May 19;115(2):249–55
Absence of p53 gene mutations in rat colon carcinomas induced through the synergistic interaction between methylazoxymethanol and X-irradiation. Shivapurkar N, et al. **Cancer Lett** 1997 Feb 26;113(1–2):9–16
Colon carcinogenesis in shrews by intrarectal infusion of N-methyl-N-nitrosourea. Yang J, et al. **Cancer Lett** 1996 Dec 20;110(1–2):105–12
Dichlorodiphenyltrichloroethane serum levels and breast cancer risk: a case-control study from Mexico. López-Carrillo L, et al. **Cancer Res** 1997 Sep 1; 57(17):3728–32
Malignant transformation of human prostate epithelial cells by N-nitroso-N-methylurea. Rhim JS, et al. **Cancer Res** 1997 Feb 15;57(4):576–80
Methylnitrosourea-induced tumorigenesis in MGMT gene knockout mice. Sakumi K, et al. **Cancer Res** 1997 Jun 15; 57(12):2415–8
Characterization of early pulmonary hyperproliferation and tumor progression and their inhibition by black tea in a 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone-induced lung tumorigenesis model with A/J mice. Yang G, et al. **Cancer Res** 1997 May 15;57(10):1889–94
Medroxyprogesterone acetate accelerates the development and increases the incidence of mouse mammary tumors induced by dimethylbenzanthracene. Aldaz CM, et al. **Carcinogenesis** 1996 Sep;17(9):2069–72
Mutational spectra: from model systems to cancer-related genes. Dogliotti E. **Carcinogenesis** 1996 Oct;17(10):2113–8 (48 ref.)
Organ specific, protocol dependent modulation of 7,12-dimethylbenz[a]anthracene carcinogenesis in rainbow trout (Oncorhynchus mykiss) by dietary ellagic acid. Harttig U, et al. **Carcinogenesis** 1996 Nov;17(11):2403–9
Enhancement by indole-3-carbinol of liver and thyroid gland neoplastic development in a rat medium-term multiorgan carcinogenesis model. Kim DJ, et al. **Carcinogenesis** 1997 Feb;18(2):377–81
Synergistic suppression of azoxymethane-induced foci of colonic aberrant crypts by the combination of beta-carotene and perilla oil in rats. Komaki C, et al. **Carcinogenesis** 1996 Sep;17(9):1897–901
Use of E mu-PIM-1 transgenic mice short-term in vivo carcinogenicity testing: lymphoma induction by benzo[a]pyrene, but not by TPA. Kroese ED, et al. **Carcinogenesis** 1997 May;18(5):975–80
Changes in protein kinase C alpha, delta and in nuclear beta isoform expression in tumour and lung metastatic nodules induced by diethylnitrosamine in the rat. La Porta CA, et al. **Carcinogenesis** 1997 Apr;18(4):715–9
Loss of tumor-promoting activity of unleaded gasoline in N-nitrosodiethylamine-initiated ovariectomized B6C3F1 mouse liver. Moser GJ, et al. **Carcinogenesis** 1997 May; 18(5):1075–83
Inhibition of gap junctional intercellular communication by barbiturates in long-term primary cultured rat hepatocytes is correlated with liver tumour promoting activity. Ren P, et al. **Carcinogenesis** 1996 Oct;17(10):2119–24

Intestinal mutagenicity of two carcinogenic food mutagens in transgenic mice: 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and amino(alpha)carboline. Zhang XB, et al. **Carcinogenesis** 1996 Oct;17(10):2259-65

The protein kinase inhibitor SB203580 uncouples PMA-induced differentiation of HL-60 cells from phosphorylation of Hsp27. Schultz H, et al. **Cell Stress Chaperones** 1997 Mar;2(1):41-9

Crotonaldehyde: a carcinogenic and mutagenic air, water and food pollutant. Eder E, et al. **Cent Eur J Public Health** 1996;4 Suppl:21-2

Antisense regulation of oncogenes in human cancer. Mukhopadhyay T, et al. **Crit Rev Oncog** 1996;7(3-4):151-90 (251 ref.)

Effect of dietary nucleotides on degree of fibrosis and steatosis induced by oral intake of thioacetamide. Torres MI, et al. **Dig Dis Sci** 1997 Jun;42(6):1322-8

Coal tar therapy. Is it carcinogenic? van Schooten FJ, et al. **Drug Saf** 1996 Dec;15(6):374-7

New rules for methylene chloride [news] **Environ Health Perspect** 1996 Dec;104(12):1270

Mechanism-based toxicology in cancer risk assessment: implications for research, regulation, and legislation. Lucier GW. **Environ Health Perspect** 1996 Jan;104(1):84-8

Proceedings of the 13th annual ECP symposium. N-nitroso compounds in human cancer: current status and future trends. London, England, 16-17 October 1995. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:1-163

Urinary metabolite profile of PAH as a potential mirror of the genetic disposition for cancer. Grimmer G, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):421-7

Gas chromatographic procedures for determination of ethanol in postmortem blood using t-butanol and methyl ethyl ketone as internal standards [see comments] O'Neal CL, et al. **Forensic Sci Int** 1996 Nov 11;83(1):31-8. Comment in: Forensic Sci Int 1997 Apr 18;86(1-2):139-43.

Tumors of the bladder, kidney, and intestine of F344 rats and liver of B6C3F1 mice administered o-nitroanisole in feed. Irwin RD, et al. **Fundam Appl Toxicol** 1996 Mar; 30(1):1-12

Cell proliferation in N-nitrosodiethylamine (DEN)-treated rat liver parenchyma correlated with tumor development. Miyazaki T, et al. **Hepatogastroenterology** 1996 May-Jun; 43(9):756-63

Human and experimental toxicology [comment] Greim H. **Hum Exp Toxicol** 1997 Apr;16(4):189. Comment on: Hum Exp Toxicol 1996 Sep;15(9):702-35.

Commentary: the use of maximum tolerated dose in rodent carcinogenicity bioassays and its relevance to human risk assessment. Savolainen K. **Hum Exp Toxicol** 1997 Apr; 16(4):190-2

Carbon black. **IARC Monogr Eval Carcinog Risks Hum** 1996; 65:149-262 (255 ref.)

2-Chloronitrobenzene, 3-chloronitrobenzene and 4-chloronitrobenzene. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:263-96 (102 ref.)

3,7-Dinitrofluoranthene and 3,9-dinitrofluoranthene. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:297-307 (19 ref.)

2,4-Dinitrotoluene, 2,6-dinitrotoluene and 3,5-dinitrotoluene. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:309-368 (170 ref.)

Printing processes and printing inks. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:33-147 (272 ref.)

Printing processes and printing inks, carbon black and some nitro compounds. Lyon, France, 10-17 October 1995. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:33-495

2-Nitroanisole. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:369-80 (28 ref.)

Nitrobenzene. **IARC Monogr Eval Carcinog Risks Hum** 1996; 65:381-408 (102 ref.)

2-Nitrotoluene, 3-nitrotoluene and 4-nitrotoluene. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:409-35 (68 ref.)

Tetranitromethane. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:437-48 (38 ref.)

2,4,6-Trinitrotoluene. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:449-75 (105 ref.)

Musk ambrette and musk xylene. **IARC Monogr Eval Carcinog Risks Hum** 1996;65:477-95 (68 ref.)

Estazolam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:105-14 (26 ref.)

Oxazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:115-42 (102 ref.)

Prazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:143-55 (44 ref.)

Ripazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:157-60 (3 ref.)

Temazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:161-73 (53 ref.)

Phenytoin. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:175-237 (306 ref.)

Droloxifene. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:241-51 (33 ref.)

Tamoxifen. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:253-365 (408 ref.)

Some pharmaceutical drugs. Lyon, France, 13-20 February 1996. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:35-445

Toremifene. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:367-87 (68 ref.)

Diazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:37-96 (255 ref.)

Clofibrate. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:391-426 (136 ref.)

Gemfibrozil. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:427-44 (75 ref.)

Doxefazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:97-104 (12 ref.)

Tetrachloroethylene. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:159-221 (272 ref.)

1,2,3-Trichloropropane. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:223-44 (68 ref.)

Chloral and chloral hydrate. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:245-69 (119 ref.)

Dichloroacetic acid. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:271-90 (85 ref.)

Trichloroacetic acid. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:291-314 (136 ref.)

1-Chloro-2-methylpropene. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:315-24 (27 ref.)

3-Chloro-2-methylpropene. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:325-33 (27 ref.)

Dry cleaning, some chlorinated solvents and other industrial chemicals. Lyon, France, 7-14 February 1995. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:33-477

Dry cleaning. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:33-71 (119 ref.)

Acrolein. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:337-72 (187 ref.)

Crotonaldehyde. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:373-91 (102 ref.)

Furan. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:393-407 (61 ref.)

Furfural. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:409-29 (78 ref.)

Benzofuran. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:431-41 (62 ref.)

Vinyl acetate. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:443-65 (85 ref.)

Vinyl fluoride. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:467-75 (37 ref.)

Trichloroethylene. **IARC Monogr Eval Carcinog Risks Hum** 1995;63:75-158 (374 ref.)

Effects of Lentinus edodes, Grifola frondosa and Pleurotus ostreatus administration on cancer outbreak, and activities of macrophages and lymphocytes in mice treated with a carcinogen, N-butyl-N-butanolnitrosoamine. Kurashige S, et al. **Immunopharmacol Immunotoxicol** 1997 May; 19(2):175-83

Effect of age on the induction of endometrial lesions by a single intra-uterine administration of N-ethyl-N'-nitro-N-nitrosoguanidine in F344 rats. Kitamura T, et al. **In Vivo** 1995 Sep-Oct;9(5):489-94

Symptoms, lung and liver function, blood counts, and genotoxic effects in coastal tanker crews. Nilsson R, et al. **Int Arch Occup Environ Health** 1997;69(6):392-8

Update of cancer surveillance of veterans in Massachusetts, USA [letter] Clapp RW. **Int J Epidemiol** 1997 Jun; 26(3):679-81

Evaluation of the dermal carcinogenic potential of re-refined base stocks using the modified Ames assay, PAC analysis and the 32P-postlabeling assay for DNA adduct induction. Dickson JR, et al. **J Appl Toxicol** 1997 Mar-Apr; 17(2):113-7

Carcinogenicity of glycidol in F344 rats and B6C3F1 mice. Irwin RD, et al. **J Appl Toxicol** 1996 May-Jun;16(3):201-9

Studies on tumor-promoting activity of polyethylene: inhibitory activity of metabolic cooperation on polyethylene surfaces is markedly decreased by surface modification with collagen but not with RGDS peptide. Nakaoka R, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):391-7

Age- and dose-dependent transplacental carcinogenesis by N-nitrosoethylurea in Syrian golden hamsters. Diwan BA, et al. **J Cancer Res Clin Oncol** 1996;122(11):643-52

32P-Postlabeling high-performance liquid chromatographic improvements to characterize DNA adduct stereoisomers from benzo[a]pyrene and benzo[c]phenanthrene, and to separate DNA adducts from 7,12-dimethylbenz[a]anthracene. Zeisig M, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):341-50

Progesterone regulated expression of flavin-containing monooxygenase 5 by the B-isoform of progesterone receptors: implications for tamoxifen carcinogenicity. Miller MM, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):2956-61

Proceedings of the biennial meeting of the World Institute of Ecology and Cancer and the European Institute of Ecology and Cancer. Bursa, Turkey, October 6-8, 1995. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):59-301

Socioeconomic status and lung cancer incidence in men in The Netherlands: is there a role for occupational exposure? van Loon AJ, et al. **J Epidemiol Community Health** 1997 Feb;51(1):24-9

Monitoring of aromatic amine exposures in workers at a chemical plant with known bladder cancer excess [letter; comment] Freudenthal RI, et al. **J Natl Cancer Inst** 1997 May 21;89(10):734; discussion 735-6. Comment on: J Natl Cancer Inst 1996 Aug 7;88(15):1046-52.

New criteria established for assessing human carcinogens [news] Holzman P. **J Natl Cancer Inst** 1996 Dec 4; 88(23):1713-4

Effects of diet on urinary bladder carcinogenesis and cancer prevention. Cohen SM, et al. **J Nutr** 1997 May;127(5 Suppl):826S-829S (21 ref.)

Thorotrast and the liver--revisited. Srinivasan R, et al. **J Toxicol Clin Toxicol** 1997;35(2):199-202

Overexpression of integrin-associated protein (CD47) in rat kidney treated with a renal carcinogen, ferric nitrilotriacetate. Nishiyama Y, et al. **Jpn J Cancer Res** 1997 Feb;88(2):120-8

Sporadic and Thorotrast-induced angiosarcomas of the liver manifest frequent and multiple point mutations in K-ras-2. Przygodzki RM, et al. **Lab Invest** 1997 Jan;76(1):153-9

Quantitative immunohistochemical determination of 8-hydroxy-2'-deoxyguanosine by a monoclonal antibody N45.1: its application to ferric nitrilotriacetate-induced renal carcinogenesis model. Toyokuni S, et al. **Lab Invest** 1997 Mar;76(3):365-74

Mutagen in cigarettes and foggy air [letter] [see comments] Middleton G. **Lancet** 1996 Dec 21-28;348(9043):1744. Comment in: Lancet 1997 Mar 1;349(9052):652.

Report on the workshop entitled: "Modeling chemically induced leukemia--implications for benzene risk assessment". Smith MT, et al. **Leuk Res** 1997 May; 21(5):361-74

Occupational exposures and haematological abnormalities among ordnance factory workers: a case control study. West RR, et al. **Leuk Res** 1997 Jul;21(7):675-80

Glutathione S transferase theta 1 gene defects in myelodysplastic syndromes and their correlation with karyotype and exposure to potential carcinogens. Preudhomme C, et al. **Leukemia** 1997 Sep;11(9):1580-2

A carcinogenesis model describing mutational events at the DNA adduct level. Zheng O, et al. **Math Biosci** 1997 Aug; 144(1):23-44

Is cancer promotion associated with dysfunction in co-operation between differentiated cells? Kozma L, et al. **Med Hypotheses** 1996 Jul;47(1):65-8

Deleterious effects of prostaglandin E2 in oesophageal carcinogenesis. Morgan G. **Med Hypotheses** 1997 Feb; 48(2):177-81 (10 ref.)

Altered glucocorticoid receptor expression and function during mouse skin carcinogenesis. Budunova IV, et al. **Mol Carcinog** 1997 Mar;18(3):177-85

Chromosomal and genetic alterations of 7,12-dimethylbenz[a]anthracene-induced melanoma from TP-ras transgenic mice. Gause PR, et al. **Mol Carcinog** 1997 Sep;20(1):78-87

Comparison of chemical carcinogen skin tumor induction efficacy in inbred, mutant, and hybrid strains of mice: morphologic variations of induced tumors and absence of a papillomavirus cocarcinogen. Sundberg JP, et al. **Mol Carcinog** 1997 Sep;20(1):19-32

Decreases in phorbol ester-induced papilloma development in v-Ha-ras transgenic TG.AC mice during reduced gene dosage of bcl-2. Trempus CS, et al. **Mol Carcinog** 1997 Sep;20(1):68-77

Sixth International Conference on Carcinogenic/Mutagenic N-Substituted Aryl Compounds. Monterey, California, November 4-8, 1995. Proceedings. **Mutat Res** 1997 May 12;376(1-2):1-272

Carcinogenicity of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) in the rat. Ito N, et al. **Mutat Res** 1997 May 12; 376(1-2):107-14

Arsenic: a paradoxical human carcinogen. Jager JW, et al. **Mutat Res** 1997 Jun;386(3):181-4 (0 ref.)

Mutagenicity, carcinogenicity and teratogenicity of antimony compounds. Léonard A, et al. **Mutat Res** 1996 Oct; 366(1):1-8 (61 ref.)

Carbon tetrachloride: genetic effects and other modes of action. McGregor D, et al. **Mutat Res** 1996 Dec; 366(3):181-95 (113 ref.)

Exposure assessment of heterocyclic amines (HCAs) in epidemiologic studies. Sinha R, et al. **Mutat Res** 1997 May 12;376(1-2):195-202

Overview of carcinogenic heterocyclic amines. Sugimura T. **Mutat Res** 1997 May 12;376(1-2):211-9 (62 ref.)

Canada and France fall out over the risks of asbestos [news] Butler D, et al. **Nature** 1997 Jan 30;385(6615):379

Effects of dietary fat content on the metabolism of NNK and on DNA methylation induced by NNK. el-Bayoumy K, et al. **Nutr Cancer** 1996;26(1):1-10

Zinc deprivation promotes progression of 1,2-dimethylhydrazine-induced colon tumors but reduces malignant invasion in mice. Carter JW, et al. **Nutr Cancer** 1997;27(3):217-21

Interaction of dietary fat with a vegetables-fruit mixture on 1,2-dimethylhydrazine-induced colorectal cancer in rats.

Rijnkels JM, et al. **Nutr Cancer** 1997;27(3):261–6

The effect of lactulose on DNA damage induced by DMH in the colon of human flora-associated rats. Rowland IR, et al. **Nutr Cancer** 1996;26(1):37–47

Comparison of pure inositol hexaphosphate and high-bran diet in the prevention of DMBA-induced rat mammary carcinogenesis. Vucenik I, et al. **Nutr Cancer** 1997; 28(1):7–13

Inhibitory effect of sarcophytol A on pancreatic carcinogenesis after initiation by N-nitrosobis(2-oxypropyl)amine in Syrian hamsters. Yokomatsu H, et al. **Pancreas** 1996 Aug;13(2):154–9

Overexpression of human glutathione S-transferase pi protects NIH 3T3 cells against (+/-)anti BPDE cytotoxicity but not tumor formation. Boucher DM, et al. **Pathobiology** 1995;63(4):197–203

Factors affecting the formation and yield of heterocyclic amines. Skog K, et al. **Princess Takamatsu Symp** 1995; 23:9–19 (23 ref.)

History, present and future, of heterocyclic amines, cooked food mutagens. Sugimura T. **Princess Takamatsu Symp** 1995;23:214–31 (88 ref.)

Effect of interleukin 12 on tumor induction by 3-methylcholanthrene. Noguchi Y, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11798–801

Tlag1, a novel murine tumor susceptibility gene that regulates MNU-induced thymic lymphoma development. Richie ER, et al. **Prog Clin Biol Res** 1996;395:23–32 (17 ref.)

Chemical mechanisms of formation of DNA-carcinogen adducts, elucidation of potential of adducts for mutagenicity, and mechanisms of polymerase fidelity and mutation in the presence of adducts. Guengerich FP, et al. **Recent Results Cancer Res** 1997;143:49–63 (52 ref.)

Analysis of genetic factors and molecular mechanisms in the development of hereditary and carcinogen-induced tumors of Xiphophorus. Schartl A, et al. **Recent Results Cancer Res** 1997;143:225–35 (24 ref.)

Cancer risk assessment for crystalline silica to implement California's hot spots act. Collins JF, et al. **Scand J Work Environ Health** 1995;21 Suppl 2:99–103 (35 ref.)

Future research needs in the silica, silicosis and cancer field. Goldsmith DF, et al. **Scand J Work Environ Health** 1995; 21 Suppl 2:115–7 (32 ref.)

Evaluation of crystalline silica as a threshold carcinogen. Klein AK, et al. **Scand J Work Environ Health** 1995;21 Suppl 2:95–8 (40 ref.)

Genotoxicity and carcinogenicity of ozone. Victorin K. **Scand J Work Environ Health** 1996;22 Suppl 3:42–51 (81 ref.)

Biology of lung cancer. Works CR, et al. **Semin Oncol Nurs** 1996 Nov;12(4):276–84 (90 ref.)

SV40 and adenovirus may act as cocarcinogens by downregulating glutathione S-transferase expression. Sompayrac L. **Virology** 1997 Jun 23;233(1):130–5

[Development of the occupational carcinogen legislation in the European Community] Soulat JM, et al. **Bull Cancer** 1997 Feb;84(2):199–205 (Eng. Abstr.) **(Fre)**

[Genotoxicity of urban air particulate matter] Clonfero E. **Med Lav** 1997 Jan–Feb;88(1):13–23 (81 ref.) (Eng. Abstr.) **(Ita)**

[An in vivo DNA adduct database for carcinogens: O6-alkylguanine, O4-alkylthymine and 8-hydroxyguanine] Morimoto K, et al. **Eisei Shikenjo Hokoku** 1994;(112):17–26 (Eng. Abstr.) **(Jpn)**

[(-)-Epigallocatechin gallate, the main constituent of Japanese green tea, inhibits tumor promotion of okadaic acid] Yoshizawa S. **Fukuoka Igaku Zasshi** 1996 Oct; 87(10):215–21 (Eng. Abstr.) **(Jpn)**

[A case of hepatocellular carcinoma related with exposure to vinyl chloride monomers] Makita O, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):215–9 **(Jpn)**

ADMINISTRATION & DOSAGE

Detection of DNA-reactive metabolites in serum and their tissue distribution in mice exposed to multiple doses of carcinogen mixtures: role in human biomonitoring. Arif JM, et al. **Carcinogenesis** 1996 Oct;17(10):2213–9

Induction of mammary cancer and lymphoma by multiple, low oral doses of 7,12-dimethylbenz[a]anthracene in SENCAR mice. Qing WG, et al. **Carcinogenesis** 1997 Mar; 18(3):553–9

Frequency of Ha-ras-1 gene mutations inversely correlated with furan dose in mouse liver tumors. Johansson E, et al. **Mol Carcinog** 1997 Apr;18(4):199–205

Aromatic amine DNA adduct formation in chronically-exposed mice: considerations for human comparison. Poirier MC, et al. **Mutat Res** 1997 May 12; 376(1-2):177–84

Nicotine regulates smoking patterns. Djordjevic MV, et al. **Prev Med** 1997 Jul–Aug;26(4):435–40

So carcinogens have thresholds: how do we decide what exposure levels should be considered safe? Wilson JD. **Risk Anal** 1997 Feb;17(1):1–3

Dose-related increase in liver heme catabolism during rabbit aflatoxicosis. Guerre P, et al. **Toxicol Lett** 1997 Jul 21; 92(2):101–8

[Digestive enzyme activity in growing rats consuming nitrates against a background og protein insufficiency] Timofeeva NM, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):82–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Diethylstilbestrol and risk of fatal breast cancer in a prospective cohort of US women. Calle EE, et al. **Am J Epidemiol** 1996 Oct 1;144(7):645–52

Lung cancer and asbestos exposure: asbestosis is not necessary. Egilman D, et al. **Am J Ind Med** 1996 Oct; 30(4):398–406 (55 ref.)

Toxic torts: are they poisoning the scientific literature? [comment] Enterline PE. **Am J Ind Med** 1996 Jul; 30(1):121–2. Comment on: Am J Ind Med 1995 Apr;27(4):593–606.

Commentary on "fibrous glass and lung cancer" [letter; comment] Hesterberg TW, et al. **Am J Ind Med** 1996 Jul; 30(1):111–2, discussion 113–20. Comment on: Am J Ind Med 1994 Oct;26(4):559–84.

Commentary on "Fibrous glass and lung cancer" [letter; comment] McConnell EE. **Am J Ind Med** 1996 Jul; 30(1):109–10, discussion 113–20. Comment on: Am J Ind Med 1994 Oct;26(4):559–84.

Epidemiology of fibrous glass and lung cancer [letter; comment] Weiss W. **Am J Ind Med** 1996 Jul;30(1):105–8, discussion 113–20. Comment on: Am J Ind Med 1994 Oct;26(4):559–84.

Bracken fern-induced bladder tumors in guinea pigs. A model for human neoplasia [letter; comment] Brasileiro Filho G, et al. **Am J Pathol** 1996 Oct;149(4):1417–8. Comment on: Am J Pathol 1995 Sep;147(3):858–68.

Molecular epidemiology of bladder cancer. Vineis P, et al. **Ann Ist Super Sanita** 1996;32(1):21–7 (39 ref.)

Characterization of cellular response to silicone implants in rats: implications for foreign-body carcinogenesis. James SJ, et al. **Biomaterials** 1997 May;18(9):667–75

Cyclosporin A and multiple fibroadenomas of the breast. Baildam AD, et al. **Br J Surg** 1996 Dec;83(12):1755–7

Molecular biomarkers for aflatoxins: from adducts to gene mutations to human liver cancer. Groopman JD, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):203–9 (40 ref.)

Interplay between heterocyclic amines in cooked meat and metabolic phenotype in the etiology of colon cancer. Vineis P, et al. **Cancer Causes Control** 1996 Jul;7(4):479–86 (53 ref.)

Dietary nitrosodimethylamine and the risk of lung cancer: a case-control study from Uruguay. De Stefani E, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):679–82

Determination of albumin and hemoglobin adducts in workers exposed to styrene and styrene oxide. Yeowell-O'Connell K, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):205–15

The challenge posed by endocrine-disrupting chemicals. Ashby J, et al. **Environ Health Perspect** 1997 Feb; 105(2):164–9 (44 ref.)

Hepatocellular carcinoma p53 G > T transversions at codon 249: the fingerprint of aflatoxin exposure? Lasky T, et al. **Environ Health Perspect** 1997 Apr;105(4):392–7 (48 ref.)

Is DDT use a public health problem in Mexico? [see comments] López-Carrillo L, et al. **Environ Health Perspect** 1996 Jun;104(6):584–8. Comment in: Environ Health Perspect 1997 Jan;105(1):14–5.

Polycyclic aromatic hydrocarbons and cancer in man. Mastrangelo G, et al. **Environ Health Perspect** 1996 Nov; 104(11):1166–70 (33 ref.)

MTBE toxicity [letter] Mehlman MA. **Environ Health Perspect** 1996 Aug;104(8):808

Calculation of cancer risk [letter] Walker B. **Environ Health Perspect** 1997 Jan;105(1):15–6

Molecular epidemiology of lung and breast cancer. Ambrosone CB, et al. **Eur J Cancer Prev** 1996 Oct; 5(5):391–2 (6 ref.)

Epidemiology relating N-nitroso compounds to human cancer. Caygill CP. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:125–30 (37 ref.)

DNA damage studies related to the assessment of the role of N-nitroso compounds in human cancer. Kyrtopoulos SA, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:109–14 (47 ref.)

Nitrosamines and human cancer: introduction and overview. Magee PN. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:7–10 (33 ref.)

N-nitroso compounds, their relevance to human cancer and further prospects for prevention. Reed PI. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:137–47 (75 ref.)

Haemoglobin adducts of N-nitroso compounds. Richter E. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:115–9 (32 ref.)

Tobacco-specific nitrosamines. Spiegelhalder B, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:33–8 (38 ref.)

Biomarkers, low-dose carcinogenesis and dietary exposures. Vineis P. **Eur J Cancer Prev** 1997 Apr;6(2):147–51 (28 ref.)

Malignant hepatic tumours associated with previous exposure to Thorotrast: four cases. Lee FI, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1121–4 (22 ref.)

Evaluation of the aetiological role of dietary salt exposure in gastric and other cancers in humans. Cohen AJ, et al. **Food Chem Toxicol** 1997 Feb;35(2):271–93 (161 ref.)

Implementation of EPA Revised Cancer Assessment Guidelines: Incorporation of Mechanistic and Pharmacokinetic Data. Page NP, et al. **Fundam Appl Toxicol** 1997 May;37(1):16–36

Role of the pituitary in tumor promotion with ethinyl estradiol in rat liver. Hallstrom IP, et al. **Hepatology** 1996 Oct;24(4):849–54

Gender bender. Schwarz LR, et al. **Hum Exp Toxicol** 1995 Dec;14(12):993–4

More on genetic predisposition. Strange RC. **Hum Exp Toxicol** 1995 Dec;14(12):992–3

Some silicates. **IARC Monogr Eval Carcinog Risks Hum** 1997; 68:243–333 (244 ref.)

Coal dust. **IARC Monogr Eval Carcinog Risks Hum** 1997; 68:337–406 (221 ref.)

para-Aramid fibrils. **IARC Monogr Eval Carcinog Risks Hum** 1997;68:409–39 (68 ref.)

Silica. **IARC Monogr Eval Carcinog Risks Hum** 1997; 68:41–242 (539 ref.)

Mixed fibrous and non-fibrous dust exposures and interactions between agents in fibre carcinogenesis. Davis JM. **IARC Sci Publ** 1996;(140):127–35 (62 ref.)

Short-term animal studies for detecting inflammation, fibrosis and pre-neoplastic changes induced by fibres. Donaldson K. **IARC Sci Publ** 1996;(140):97–106 (54 ref.)

Effects of fibres on cell proliferation, cell activation and gene expression. Driscoll KE. **IARC Sci Publ** 1996;(140):73–96 (110 ref.)

Use of physico-chemical and cell-free assays to evaluate the potential carcinogenicity of fibres. Fubini B. **IARC Sci Publ** 1996;(140):35–54 (90 ref.)

Use of in-vitro genotoxicity and cell transformation assays to evaluate the potential carcinogenicity of fibres. Jaurand MC. **IARC Sci Publ** 1996;(140):55–72 (107 ref.)

Mechanisms of mineral fibre carcinogenesis. Kane AB. **IARC Sci Publ** 1996;(140):11–34 (138 ref.)

Evaluation and use of animal models to assess mechanisms of fibre carcinogenicity. Oberdörster G. **IARC Sci Publ** 1996;(140):107–25 (80 ref.)

Enhancement of natural killer cell activity and T and B cell function by buffered vitamin C in patients exposed to toxic chemicals: the role of protein kinase-C. Heuser G, et al. **Immunopharmacol Immunotoxicol** 1997 Aug;19(3):291–312

Nitrosamines, alcohol, and gastrointestinal tract cancer: recent epidemiology and experimentation. Chhabra SK, et al. **In Vivo** 1996 May–Jun;10(3):265–84 (221 ref.)

Respiratory effects of occupational exposure to asbestos. Mukhtar MS, et al. **Indian J Physiol Pharmacol** 1996 Jan; 40(1):98–102

Occupational exposure to polycyclic aromatic hydrocarbons in a graphite-electrode producing plant: biological monitoring of 1-hydroxypyrene and monohydroxylated metabolites of phenanthrene. Angerer J, et al. **Int Arch Occup Environ Health** 1997;69(5):323–31

Increase in CD57 + CD16-lymphocytes in workers exposed to benzidine and beta-naphthylamine: assessment of natural killer cell subpopulations. Tanigawa T, et al. **Int Arch Occup Environ Health** 1996;69(1):69–72

Retrospective assessment of occupational exposure to chemicals in community-based studies: validity and repeatability of industrial hygiene panel ratings. Benke G, et al. **Int J Epidemiol** 1997 Jun;26(3):635–42

Nitric oxide (NO) synthase activity in the lung and NO synthesis in alveolar macrophages of rats increased on exposure to asbestos. Iguchi H, et al. **J Appl Toxicol** 1996 Jul–Aug;16(4):309–15

Nitrate as an environmental carcinogen. Cannons A. **J Fla Med Assoc** 1996 Mar;83(3):197–9 (27 ref.)

Re: Risk factors for lung cancer and for intervention effects in CARET, the Beta-Carotene and Retinol Efficacy trial [letter; comment] Challem JJ. **J Natl Cancer Inst** 1997 Feb 19;89(4):325–6. Comment on: J Natl Cancer Inst 1996 Nov 6;88(21):1550–9.

Recovery from 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone-induced immunosuppression in A/J mice by treatment with nonsteroidal anti-inflammatory drugs. Rioux N, et al. **J Natl Cancer Inst** 1997 Jun 18;89(12):874–80

Is beryllium carcinogenic in humans? Beryllium Industry Scientific Advisory Committee [see comments] **J Occup Environ Med** 1997 Mar;39(3):205–8. Comment in: J Occup Environ Med 1997 Mar;39(3):203–4.

Exposure to aromatic amines and ras and c-erbB-2 overexpression in bladder cancer. Novara R, et al. **J Occup Environ Med** 1996 Apr;38(4):390–3

Sequential expression of placental glutathione S-transferase (GST-P) during DMBA-induced hamster buccal pouch squamous cell carcinogenesis. Chen YK, et al. **J Oral Pathol Med** 1996 Aug;25(7):388–94

Scanning electron microscopy of dimethylbenzanthracene (DMBA)-treated hamster cheek pouch. McMillan MD, et al. **J Oral Pathol Med** 1996 Jan;25(1):14–9

Chronic myeloid leukaemia and occupational exposure to benzene in a Royal Navy submariner. Dean MR. **J R Nav Med Serv** 1996 Spring;82(1):28–33

Relationships between smoking habits, smoking-associated hematological changes, and urinary benzene metabolites. Haufroid V, et al. **J Toxicol Environ Health** 1997 Sep; 52(1):1–17

Angiosarcoma of the liver in Great Britain in proximity to vinyl chloride sites. Elliott P, et al. **Occup Environ Med** 1997 Jan;54(1):14–8

Surveillance of nasal and bladder cancer to locate sources of exposure to occupational carcinogens. Teschke K, et al. **Occup Environ Med** 1997 Jun;54(6):443–51

Evidence at molecular level supports link between environmental estrogens and breast cancer [news] **Oncology (Huntingt)** 1997 Sep;11(9):1383

Toxicology and pharmacology of the chemical warfare agent

sulfur mustard. Dacre JC, et al. **Pharmacol Rev** 1996 Jun; 48(2):289–326 (347 ref.)

Cancer risk in relation to radioactivity in tobacco. Kilthau GF. **Radiol Technol** 1996 Jan–Feb;67(3):217–22 (53 ref.)

Cancer risk assessment at the crossroads: the need to turn to a biological approach. Clayson DB, et al. **Regul Toxicol Pharmacol** 1996 Aug;24(1 Pt 1):45–59 (112 ref.)

Biologically bounded risk assessment for receptor–mediated nongenotoxic carcinogens. Gastel JA, et al. **Regul Toxicol Pharmacol** 1995 Dec;22(3):273–82

Precision of benchmark dose estimates for continuous (nonquantal) measurements of toxic effects. Gaylor DW, et al. **Regul Toxicol Pharmacol** 1996 Aug;24(1 Pt 1):19–23

An empirical examination of factors influencing prediction of carcinogenic hazard across species. Gray GM, et al. **Regul Toxicol Pharmacol** 1995 Dec;22(3):283–91

Speciation in health risk assessments of metals: evaluation of effects associated with forms present in the environment. Hughes K, et al. **Regul Toxicol Pharmacol** 1995 Dec; 22(3):213–20

Approach to health risk determination for metals and their compounds under the Canadian Environmental Protection Act. Meek ME, et al. **Regul Toxicol Pharmacol** 1995 Dec; 22(3):206–12

Toxicological significance of DNA adducts: summary of discussions with an expert panel. Nestmann ER, et al. **Regul Toxicol Pharmacol** 1996 Aug;24(1 Pt 1):9–18 (49 ref.)

Environmental pollution in central and eastern European countries: a basis for cancer epidemiology. Jedrychowski W, et al. **Rev Environ Health** 1997 Jan–Mar;12(1):1–23 (18 ref.)

Evaluation of false positive and false negative outcomes in NTP long–term rodent carcinogenicity studies. Haseman JK, et al. **Risk Anal** 1996 Dec;16(6):813–20

Determination of leukemogenic benzene exposure concentrations: refined analyses of the Pliofilm cohort. Schnatter AR, et al. **Risk Anal** 1996 Dec;16(6):833–40

Renal cell carcinoma associated with cyclophosphamide therapy for Wegener's granulomatosis. Odeh M. **Scand J Rheumatol** 1996;25(6):391–3

Epidemiology and the identification of metals as human carcinogens. Duffus JH. **Sci Prog** 1996;79 (Pt 4):311–26 (36 ref.)

Exploratory analysis as a sequel to suspected increased rate of cancer in a small residential or workplace community. Chen R. **Stat Med** 1996 Apr 15–May 15;15(7–9):807–16

Fish consumption and other characteristics of reproductive–aged Michigan anglers––a potential population for studying the effects of consumption of Great Lakes fish on reproductive health. Courval JM, et al. **Toxicol Ind Health** 1996 May–Aug;12(3–4):347–59

Strategic elements of ATSDR's Great Lakes Human Health Effects Research Program. DeRosa CT, et al. **Toxicol Ind Health** 1996 May–Aug;12(3–4):315–25

Dangerous and cancer–causing properties of products and chemicals in the oil–refining and petrochemical industry––Part XXII: Health hazards from exposure to gasoline containing methyl tertiary butyl ether: study of New Jersey residents. Mehlman MA. **Toxicol Ind Health** 1996 Sep–Oct;12(5):613–27 (56 ref.)

ATSDR evaluation of health effects of chemicals. IV. Polycyclic aromatic hydrocarbons (PAHs): understanding a complex problem. Mumtaz MM, et al. **Toxicol Ind Health** 1996 Nov–Dec;12(6):742–971 (1200 ref.)

HPRT mutant frequencies and detection of large deletions by multiplex–PCR in human lymphocytes of vinyl chloride exposed and non–exposed populations. Hüttner E, et al. **Toxicol Lett** 1996 Nov;88(1–3):175–83

The contribution of the mouse in hazard identification studies. Maronpot RR, et al. **Toxicol Pathol** 1996 Nov–Dec; 24(6):726–31 (17 ref.)

[Molecular biology of tobacco smoke associated neoplasia] Zojer N, et al. **Wien Klin Wochenschr** 1996;108(18):574–81 (79 ref.) (Eng. Abstr.) **(Ger)**

[Protection from carcinogenic agents in work environments: considerations on Title VII of Legislative Decree 626/94] Mucci N, et al. **Ann Ig** 1996 May–Jun;8(3):385–94 (Eng. Abstr.) **(Ita)**

[The INSERM report "The effects on health of the main asbestos exposures" and the decision to ban asbestos in France] Merler E. **Epidemiol Prev** 1997 Jan–Mar;21(1):10–3 **(Ita)**

[Clinical study of occupational uroepithelial cancer] Hamasaki T, et al. **Sangyo Ika Daigaku Zasshi** 1996 Dec 1;18(4):247–59 (Eng. Abstr.) **(Jpn)**

[Oncoproteins and anti–oncoproteins in blood serum as biomarkers of early health effects induced by occupational and environmental carcinogens] Lutz W, et al. **Med Pr** 1996;47(5):511–8 (29 ref.) (Eng. Abstr.) **(Pol)**

[Procedure for complex toxico–genetical investigations] Revazova IA, et al. **Vestn Ross Akad Med Nauk** 1997; (7):18–24 (Eng. Abstr.) **(Rus)**

[Carcinogenesis and ontogenesis: chief trends and results of investigations] Anisimov VN. **Vopr Onkol** 1997;43(1):88–94 (35 ref.) (Eng. Abstr.) **(Rus)**

[Investigation of immune response in rubber workers at high risk for cancer] Belokhvostova AT, et al. **Vopr Onkol** 1996; 42(5):72–5 (Eng. Abstr.) **(Rus)**

[Trends and perspectives in environmental oncology] Khudoleĭ VV, et al. **Vopr Onkol** 1997;43(1):116–9 (14 ref.) (Eng. Abstr.) **(Rus)**

[Study of environmental pollution with carcinogens and methods of predicting individual sensitivity] Likhachev AI. **Vopr Onkol** 1997;43(1):111–5 **(Rus)**

[Estimate of mortality from occupational cancer and of carcinogen exposure in the workplace in Spain in the 90's] García Gómez M, et al. **Gac Sanit** 1996 May–Jun; 10(54):143–51 (Eng. Abstr.) **(Spa)**

ANALYSIS

Uptake of polycyclic aromatic hydrocarbons among trainers in a fire–fighting training facility. Feunekes FD, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):23–8

Chromium as an industrial carcinogen: Part II. Chromium in human tissues [published erratum appears in Am J Ind Med 1997 May;31(5):669] Mancuso TF. **Am J Ind Med** 1997 Feb;31(2):140–7

Biomonitoring of epichlorohydrin by hemoglobin adducts. Landin HH, et al. **Anal Biochem** 1996 Aug 15;240(1):1–6

Biomarkers in hydrolysed urine, plasma and erythrocytes among workers exposed to thermal degradation products from toluene diisocyanate foam. Lind P, et al. **Analyst** 1997 Jan;122(1):51–6

Determination of aflatoxin B1–DNA adduct in rat liver by enzyme immunoassay. Vidyasagar T, et al. **Analyst** 1997 Jun;122(6):609–13

N–nitroso compounds in the ambient air of metal factories using metal–working fluids. Fadlallah S, et al. **Bull Environ Contam Toxicol** 1996 Dec;57(6):867–74 (22 ref.)

Analysis of metals in blue crabs, Callinectes sapidus, from two Connecticut estuaries. Jop KM, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):311–7

Use of an improved method for analysis of urinary aflatoxin M1 in a survey of mainland China and Taiwan. Cheng Z, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul; 6(7):523–9

Immunoperoxidase quantitation of 4–aminobiphenyl– and polycyclic aromatic hydrocarbon–DNA adducts in exfoliated oral and urothelial cells of smokers and nonsmokers. Hsu TM, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar;6(3):193–9

Metabolites of a tobacco–specific nitrosamine, 4–(methylnitrosamino)– 1–(3–pyridyl)–1–butanone (NNK), in the urine of smokeless tobacco users: relationship between urinary biomarkers and oral leukoplakia. Kresty LA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul; 5(7):521–5

Cytochrome P4501A2: enzyme induction and genetic control in determining 4–aminobiphenyl–hemoglobin adduct levels. Landi MT, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):693–8

Aflatoxin–albumin adducts: a basis for comparative carcinogenesis between animals and humans. Wild CP, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):179–89

Skin carcinogenicity of condensed asphalt roofing fumes and their fractions following dermal application to mice. Sivak A, et al. **Cancer Lett** 1997 Jul 15;117(1):113–23

32–P–HPLC analysis of DNA adducts formed in vitro and in vivo by 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine and 2–amino–3,4,8–trimethyl–3H–imidazo[4,5–f]quinoxaline, utilizing an improved adduct enrichment procedure. Wohlin P, et al. **Chem Res Toxicol** 1996 Sep;9(6):1050–6

1,3 Butadiene and environmental tobacco smoke [letter; comment] Coggins CR. **Circulation** 1997 Jan 7;95(1):275–6 . Comment on: Circulation 1996 Feb 1;93(3):552–7.

DNA adducts in human tissues: biomarkers of exposure to carcinogens in tobacco smoke. Phillips DH. **Environ Health Perspect** 1996 May;104 Suppl 3:453–8 (55 ref.)

Talc and amosite/crocidolite preferentially deposited in the lungs of nonoccupational female lung cancer cases in urban areas of Japan. Yamada H, et al. **Environ Health Perspect** 1997 May;105(5):504–8

Risk estimation in coke–oven workers by determining some biomarkers of carcinogen exposure. Popp W, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):440–2

Ethyl carbamate levels resulting from azodicarbonamide use in bread. Cañas BJ, et al. **Food Addit Contam** 1997 Jan; 14(1):89–94

Migration studies from paper and board food packaging materials. Part 2. Survey for residues of dialkylamino benzophenone UV–cure ink photoinitiators. Castle L, et al. **Food Addit Contam** 1997 Jan;14(1):45–52

The effect of azodicarbonamide concentrations on ethyl carbamate concentrations in bread and toast. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):95–100

The contribution of azodicarbonamide to ethyl carbamate formation in bread and beer. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):101–8

Occurrence of aflatoxin M1 in milk and dairy products commercialized in Campinas, Brazil. de Sylos CM, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):169–72

An intercomparison of methods for the determination of ochratoxin A in pig kidney. Entwisle AC, et al. **Food Addit Contam** 1997 Apr;14(3):223–36

Determination of benzo[a]pyrene in lipid–soluble liquid smoke (LSLS) by HPLC–FL. García Falcón MS, et al. **Food Addit Contam** 1996 Oct;13(7):863–70

The natural occurrence of fumonisins in Brazilian corn kernels. Hirooka EY, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):173–83

Immunochemical assessment of aflatoxin M1 in milk powder consumed by infants in São Paulo, Brazil. Oliveira CA, et al. **Food Addit Contam** 1997 Jan;14(1):7–10

The incidence and distribution of ochratoxin A in western Canadian swine. Ominski KH, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):185–98

Survey of ochratoxin A in UK retail coffees. Patel S, et al. **Food Addit Contam** 1997 Apr;14(3):217–22

Aflatoxin M1 occurrence in samples of Grana Padano cheese. Peitri A, et al. **Food Addit Contam** 1997 May–Jun; 14(4):341–4

Benzo(a)pyrene in Brazilian vegetable oils. Pupin AM, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):639–45

Screening of European coffee final products for occurrence of ochratoxin A (OTA). v.d. Stegen G, et al. **Food Addit Contam** 1997 Apr;14(3):211–6

Ochratoxin A in wheat: certification of two reference materials. Wood GM, et al. **Food Addit Contam** 1997 Apr; 14(3):237–48

Effect of commercial marinades on the mutagenic activity, sensory quality and amount of heterocyclic amines in chicken grilled under different conditions. Tikkanen LM, et al. **Food Chem Toxicol** 1996 Aug;34(8):725–30

Chromatographic characterization of hemoglobin benzo[a]pyrene–7,8–diol–9,10–epoxide adducts. Myers SR, et al. **Fundam Appl Toxicol** 1996 Jan;29(1):94–101

Carcinogens in food: priorities for regulatory action. McDonald AL, et al. **Hum Exp Toxicol** 1996 Sep; 15(9):739–46

Rapid detection of chemical carcinogens by measuring RNA released from microsomes in post–mitochondrial supernatant. Dhanda JS, et al. **Indian J Exp Biol** 1996 Jun; 34(6):597–9

Biological monitoring of vehicle mechanics and other workers exposed to low concentrations of benzene. Hotz P, et al. **Int Arch Occup Environ Health** 1997;70(1):29–40

Determination of dichlorobenzidine–hemoglobin adducts by GC/MS–NCI. Joppich–Kuhn R, et al. **Int Arch Occup Environ Health** 1997;69(4):240–6

Comparison of three methods for determining aflatoxins in melon seeds. DiProssimo VP, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1330–5

N–nitrosodibenzylamine in boneless hams processed in elastic rubber nettings. Fiddler W, et al. **J AOAC Int** 1997 Mar–Apr;80(2):353–8

Supercritical fluid extraction of volatile N–nitrosamines in fried bacon and its drippings: method comparison. Fiddler W, et al. **J AOAC Int** 1996 Jul–Aug;79(4):895–901

Determination of aflatoxin B1 in pistachio kernels and shells. Scholten JM, et al. **J AOAC Int** 1996 Nov–Dec; 79(6):1360–4

Mycotoxins transmitted into beer from contaminated grains during brewing. Scott PM. **J AOAC Int** 1996 Jul–Aug; 79(4):875–82 (85 ref.)

Aflatoxin B1 in common Egyptian foods. Selim MI, et al. **J AOAC Int** 1996 Sep–Oct;79(5):1124–9

Determination of ethylenethiourea in food commodities by a two–step derivatization method and gas chromatography with electron–capture and nitrogen–phosphorus detection. Dubey JK, et al. **J Chromatogr A** 1997 Mar 21;765(1):31–8

Selective determination of volatile N–nitrosamines by derivatization with diethyl chlorothiophosphate and gas chromatography with flame photometric detection. Kataoka H, et al. **J Chromatogr A** 1996 Feb 2;723(1):93–9

Methods for the determination of mutagenic heterocyclic amines and their applications in environmental analysis. Kataoka H. **J Chromatogr A** 1997 Jul 11;774(1–2):121–42 (159 ref.)

Analysis of foods for heterocyclic aromatic amine carcinogens by solid–phase extraction and high–performance liquid chromatography. Knize MG, et al. **J Chromatogr A** 1997 Feb 28;763(1–2):179–85

Determination of polycyclic aromatic hydrocarbons in edible oils and fats by on–line donor–acceptor complex chromatography and high–performance liquid chromatography with fluorescence detection. van Stijn F, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):263–73

Identification of tobacco–specific carcinogen in the cervical mucus of smokers and nonsmokers. Prokopczyk B, et al. **J Natl Cancer Inst** 1997 Jun 18;89(12):868–73

The changing cigarette, 1950–1995. Hoffmann D, et al. **J Toxicol Environ Health** 1997 Mar;50(4):307–64 (176 ref.)

Heavy cigarette smokers show higher mutagenicity in urine. Mure K, et al. **Mutat Res** 1997 Jan 3;373(1):107–11

Microcystin levels during 1992–95 for Lakes Sagami and Tsukui–Japan. Tsuji K, et al. **Nat Toxins** 1996;4(4):189–94

Identification and estimation of microcystins in freshwater mussels. Watanabe MF, et al. **Nat Toxins** 1997;5(1):31–5

Occurrence of nitrate, nitrite and volatile nitrosamines in certain feedstuffs and animal products. Ologhobo AD, et al. **Nutr Health** 1996;11(2):109–14

Assessment of exposure to polycyclic aromatic hydrocarbons in engine rooms by measurement of urinary 1–hydroxypyrene. Moen BE, et al. **Occup Environ Med** 1996 Oct;53(10):692–6

Ingestion of herring leads to absorption of pristane in humans [letter] Sjögren B, et al. **Occup Environ Med** 1997 Jan; 54(1):66

p21ras in carcinogenesis. de Vries JE, et al. **Pathol Res Pract** 1996 Jul;192(7):658–68 (138 ref.)

Quantitative determination of heterocyclic amines in food products. Gross GA, et al. **Princess Takamatsu Symp** 1995;

23:20–9 (23 ref.)
Cytochrome P-450 and acetyltransferase expression as biomarkers of carcinogen-DNA adduct levels and human cancer susceptibility. Badawi AF, et al. **Prog Clin Biol Res** 1996;395:109–40 (123 ref.)
Concordance between rats and mice in bioassays for carcinogenesis. Freedman DA, et al. **Regul Toxicol Pharmacol** 1996 Jun;23(3):225–32 (35 ref.)
Asbestos exposure of building maintenance personnel. Mlynarek S, et al. **Regul Toxicol Pharmacol** 1996 Jun; 23(3):213–24
Methods for routine biological monitoring of carcinogenic PAH-mixtures. Jongeneelen FJ. **Sci Total Environ** 1997 Jun 20;199(1–2):141–9 (57 ref.)
Minisymposium on emerging methods in cancer hazard identification. Dragan Y. **Toxicol Pathol** 1997 Mar–Apr; 25(2):238
Diet: the neglected variable in chemical safety evaluations. Newberne PM, et al. **Toxicol Pathol** 1996 Nov–Dec; 24(6):746–56 (32 ref.)
Food and Drug Administration workshop on indirect mechanisms of carcinogenesis. Poirier LA. **Toxicol Pathol** 1996 Sep–Oct;24(5):659–61
Identifying carcinogens--a strategy for use of abbreviated models. Tennant R. **Toxicol Pathol** 1997 Mar–Apr; 25(2):240–1
[Occupational exposure to n-nitrosamine in the production of automobile tires] Rogaczewska T, et al. **Med Pr** 1996; 47(6):569–75 (Eng. Abstr.) **(Pol)**
[A quantitative evaluation of risk associated with occupational inhalation exposure to polycyclic aromatic hydrocarbons in Polish production plants] Szymczak W. **Med Pr** 1996;47(6):547–57 (Eng. Abstr.) **(Pol)**
[Methods of extrapolating risk from from high to low doses and their effect on determining MAC values] Szymczak W. **Med Pr** 1996;47(5):501–9 (Eng. Abstr.) **(Pol)**

ANTAGONISTS & INHIBITORS

Complete inhibition of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone-induced rat lung tumorigenesis and favorable modification of biomarkers by phenethyl isothiocyanate. Hecht SS, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):645–52
Flavonoids (apigenin, tangeretin) counteract tumor promoter-induced inhibition of intercellular communication of rat liver epithelial cells. Chaumontet C, et al. **Cancer Lett** 1997 Mar 19;114(1–2):207–10
Quassinoids as inhibitors of Epstein-Barr virus early antigen activation. Kubota K, et al. **Cancer Lett** 1997 Feb 26; 113(1–2):165–8
Experimental evidence for cancer preventive elements in foods. Wargovich MJ. **Cancer Lett** 1997 Mar 19; 114(1–2):11–7 (63 ref.)
Inhibition of WY-14,643 induced hepatic lesion growth in mice by rotenone. Isenberg JS, et al. **Carcinogenesis** 1997 Aug;18(8):1511–9
Antimutagenesis and anticancer effects. Bronzetti G, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):59–64 (28 ref.)
Inhibitory effects of Chinese ant extract (CAE) on nephrotoxicity induced by ferric-nitrilotriacetate (Fe-NTA) in Wistar rats. Ma Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):169–78
[The effect of prenatal diethylstilbestrol treatment on 1,2-dimethylhydrazine-induced carcinogenesis in C3HA female mice] Morozova OV, et al. **Vopr Onkol** 1997; 43(3):321–3 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Synthesis, characterization, and immunochemical detection of O6-(carboxymethyl)-2'-deoxyguanosine: a DNA adduct formed by nitrosated glycine derivatives. Harrison KL, et al. **Chem Res Toxicol** 1997 Jun;10(6):652–9
Synthesis and quantification of DNA adducts of 4,4'-methylenedianiline. Schütze D, et al. **Chem Res Toxicol** 1996 Oct–Nov;9(7):1103–12
Synthesis and biochemical characterization of N1-, N2-, and N7-guanosine adducts of butadiene monoxide. Selzer RR, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):126–32
Synthetic routes to the food carcinogen 2 amino-3,8-dimethylimidazo[4,5-f]quinoxaline (8-MeIQx) and related compounds. Grivas S. **Princess Takamatsu Symp** 1995;23:1–8 (27 ref.)

CHEMISTRY

Heterocyclic N-acetoxyarylamines, models for the putative ultimate carcinogens of aromatic amines: 2-acetoxyamino-5-phenylpyridine and 2-acetoxyaminopyridine. Ojala WH, et al. **Acta Crystallogr C** 1997 May 15;53 (Pt 5):634–7
The reductive conversion of the carcinogen chromium (VI) and its role in the formation of DNA lesions. Kortenkamp A, et al. **Ann Clin Lab Sci** 1996 Mar–Apr;26(2):160–75
Correlations between topological resonance energy of methyl-substituted benz[c]acridines, benzo[a]phenothiazines and chrysenes, and their carcinogenic or antitumor activities. Kurihara T, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2757–65
One-electron reduction of chromium(VI) by alpha-lipoic acid and related hydroxyl radical generation, dG hydroxylation and nuclear transcription factor-kappaB activation. Chen F, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):165–72
Chemical modification of deoxycytidine at different sites yields adducts of different stabilities: characterization of N3- and O2-deoxycytidine and N3-deoxyuridine adducts of butadiene monoxide. Selzer RR, et al. **Arch Biochem Biophys** 1997 Jul 1;343(1):63–72
The carcinogenicity of diethylstilbestrol: structural evidence for a non-genotoxic mechanism. Cunningham A, et al. **Arch Toxicol** 1996;70(6):356–61
7-Sulfooxymethylbenz[a]anthracene is an ultimate electrophilic and carcinogenic form of 7-hydroxymethylbenz[a]anthracene. Flesher JW, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):712–6
Synthesis of Cr(IV)-GSH, its identification and its free hydroxyl radical generation: a model compound for Cr(VI) carcinogenicity. Liu KJ, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):54–8
Bay-region distortions in a methanol adduct of a bay-region diol epoxide of the carcinogen 5-methylchrysene. Afshar CE, et al. **Carcinogenesis** 1996 Nov;17(11):2507–11
Formation of the mutagenic/carcinogenic imidazoquinoxaline-type heterocyclic amines through the unstable free radical Maillard intermediates and its inhibition by phenolic antioxidants. Kato T, et al. **Carcinogenesis** 1996 Nov;17(11):2469–76
Site-specific adducts derived from the binding of anti-5-methylchrysene diol epoxide enantiomers to DNA: synthesis and characteristics. Xu R, et al. **Carcinogenesis** 1996 Sep;17(9):2035–42
Reaction of adenine with 6-hydroxyestrogen 6-sulfates: model compounds to demonstrate carcinogenesis by estrogen. Itoh S, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep; 44(9):1754–7
Relationship between the 13C-NMR chemical shift and the carcinogenic activity of benz[a]anthracenes. Sakamoto Y, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):424–8
The effect of fluoro substituents on reactivity of 7-methylbenz[a]anthracene diol epoxides. Baer-Dubowska W, et al. **Chem Res Toxicol** 1996 Jun;9(4):722–8
NMR solution structures of stereoisomeric covalent polycyclic aromatic carcinogen-DNA adduct: principles, patterns, and diversity. Geacintov NE, et al. **Chem Res Toxicol** 1997 Feb;10(2):111–46 (165 ref.)
Characterization of DNA adducts formed by cyclopenta[cd]pyrene epoxide. Hsu CH, et al. **Chem Res Toxicol** 1997 Feb;10(2):248–53
Conformational studies of stereoisomeric tetrols derived from syn- and anti-dibenzo[a,l]pyrene diol epoxides. Jankowiak R, et al. **Chem Res Toxicol** 1997 Jun;10(6):677–86
Liquid chromatography--electrospray ionization mass spectrometric detection of an ethenodeoxyguanosine adduct and its hemiaminal precursors in DNA reacted with alpha-acetoxy-N-nitrosopiperidine and cis-4-Oxo-2-pentenal. Liu Z, et al. **Chem Res Toxicol** 1996 Jun;9(4):774–80
Synthesis and structure determination of the adducts formed by electrochemical oxidation of 1,2,3,4-Tetrahydro-7,12-dimethylbenz[a]anthracene in the presence of deoxyribonucleosides or adenine. Mulder PP, et al. **Chem Res Toxicol** 1996 Dec;9(8):1264–77
Synthesis and biochemical characterization of N1-, N2-, and N7-guanosine adducts of butadiene monoxide. Selzer RR, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):126–32
Oxidative transformation of 2-hydroxyestrone. Stability and reactivity of 2,3-estrone quinone and its relationship to estrogen carcinogenicity. Tabakovic K, et al. **Chem Res Toxicol** 1996 Jul–Aug;9(5):860–5
Questions about grilling [news] **Environ Health Perspect** 1996 Jun;104(6):596–7
Structure/activity relationships of polyfunctional diterpenes of the tigliane type. A pharmacophore model for protein-kinase-C activators based on structure/activity studies and molecular modeling of the tumor promoters 12-O-tetradecanoylphorbol 13-acetate and 3-O-tetradecanoylingenol. Krauter G, et al. **Eur J Biochem** 1996 Dec 1;242(2):417–27
Visualization of a covalent intermediate between microsomal epoxide hydrolase, but not cholesterol epoxide hydrolase, and their substrates. Müller F, et al. **Eur J Biochem** 1997 Apr 15;245(2):490–6
Highlights of the International Conference on Food Factors (ICoFF): chemistry and cancer prevention Hamamatsu, Japan, 10–15 December 1995. Bueno-de-Mesquita HB. **Eur J Cancer Prev** 1996 Jun;5(3):209–15
Mutagenic activation of N-nitrosobis(2-oxopropyl)amine by pancreatic juice and assessment of its ductal tumorigenicity following intraductal administration in dogs. Kamano T, et al. **Int J Pancreatol** 1996 Aug;20(1):51–7
Development of neural network simulator for structure--activity correlation of molecules (NECO). Prediction of endo/exo substitution of norbornane derivatives and of carcinogenic activity of PAHs from 13C-NMR shifts. Isu Y, et al. **J Chem Inf Comput Sci** 1996 Mar–Apr;36(2):286–93
Improved high-performance liquid chromatography analysis of 32P-postlabeled 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-DNA adducts using in-line precolumn purification. Mauthe RJ, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26; 679(1–2):91–101
Study of the biotransformation of a potential benzo[c]fluorene antineoplastic using high-performance liquid chromatography with high-speed-scanning ultraviolet detection. Nobilis M, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):143–51
Hydroxypropyl cyclodextrins: potential synergism with carcinogens [see comments] Horský J, et al. **J Pharm Sci** 1996 Jan;85(1):96–100. Comment in: J Pharm Sci 1996 Jul;85(7):789–90. Comment in: J Pharm Sci 1997 Mar;86(3):402–4.
QSARS of mutagens and carcinogens: two case studies illustrating problems in the construction of models for noncongeneric chemicals. Benigni R, et al. **Mutat Res** 1996 Nov 4;371(1–2):29–46
Relationship between adduct formation, rates of excision repair and the cytotoxic and mutagenic effects of structurally-related polycyclic aromatic carcinogens. McGregor WG, et al. **Mutat Res** 1997 May 12; 376(1–2):143–52
DNA adduct formation by hormonal steroids in vitro. Seraj MJ, et al. **Mutat Res** 1996 Aug;370(1):49–59
Polarographic reduction of some triphenylmethane dyes and their potential carcinogenic activity. Vachálková A, et al. **Neoplasma** 1996;43(2):113–7
Polarographic behavior of kojic acid and its derivatives, determination of potential carcinogenicity and correlation of these properties with their other attributes. Vachálková A, et al. **Neoplasma** 1996;43(4):265–9
Carcinogenicity testing and the evaluation of regulatory requirements for pharmaceuticals. Contrera JF, et al. **Regul Toxicol Pharmacol** 1997 Apr;25(2):130–45
[Specifics of interaction between benz(a)pyrene and dibenzo(a,l)pyrene with DNA of various mouse tissues] Likhachev AI, et al. **Vopr Onkol** 1996;42(5):76–9 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Effect of discounting certain tumor types/sites on evaluations of carcinogenicity in laboratory animals. Karstadt M, et al. **Am J Ind Med** 1997 May;31(5):485–94
Classification of MMMF [letter] Brown RC, et al. **Ann Occup Hyg** 1996 Feb;40(1):115–7
BRC criteria revised [news] **Environ Health Perspect** 1996 Aug;104(8):824
Examples of MAK values and carcinogenicity classification for mixtures. Reuter U, et al. **Food Chem Toxicol** 1996 Nov-Dec;34(11–12):1167–8
Epidemiology of occupational carcinogens and mutagens. Ruder AM. **Occup Med** 1996 Jul–Sep;11(3):487–512 (103 ref.)
A perspective on carcinogen risk assessment. Toxicology Forum, Washington DC, February 19, 1996. Moolenaar RJ. **Regul Toxicol Pharmacol** 1996 Jun;23(3):241–3
[Classification of pesticides according to carcinogenicity to man] Turusov VS, et al. **Vopr Onkol** 1997;43(3):299–303 (Eng. Abstr.) **(Rus)**

ECONOMICS

Is DDT use a public health problem in Mexico? [see comments] López-Carrillo L, et al. **Environ Health Perspect** 1996 Jun;104(6):584–8. Comment in: Environ Health Perspect 1997 Jan;105(1):14–5.

HISTORY

Magic, menace, myth and malice [editorial; comment] Liddell FD. **Ann Occup Hyg** 1997 Jan;41(1):3–12. Comment on: Ann Occup Hyg 1997 Jan;41(1):13–36.
Environmental mutagens and the fundamental concept of the cause of human cancer (1997 Japan Prize). Toyoshima K. **Jpn J Cancer Res** 1997 Apr;88(4):inside front cover
A perspective on the history and significance of carcinogenic and mutagenic N-substituted aryl compounds in human health. Weisburger JH. **Mutat Res** 1997 May 12; 376(1–2):261–6
[Scientific and practical aspects of the study of the carcinogenicity of chemical substances] Pliss GB. **Vopr Onkol** 1997;43(1):107–10 **(Rus)**

ISOLATION & PURIFICATION

A short-column technique for concentrating mutagens/carcinogens having polycyclic structures. Hayatsu H, et al. **Anal Biochem** 1996 Mar 15;235(2):185–90
Seasonal variations in microcystin contents of Danish cyanobacteria. Henriksen P, et al. **Nat Toxins** 1997; 5(3):99–106
Detection of diarrhoetic shellfish toxins in mussels from Italy by ionspray liquid chromatography-mass spectrometry. Draisci R, et al. **Toxicon** 1995 Dec;33(12):1591–603

METABOLISM

Estrogen metabolites as bioreactive modulators of tumor initiators and promoters. Bradlow L, et al. **Adv Exp Med Biol** 1996;387:285–96 (52 ref.)
Species differences in metabolism of 1,3-butadiene. Henderson RF. **Adv Exp Med Biol** 1996;387:371–6 (14 ref.)
Metabolism of aflatoxin B1 by human hepatocytes in primary culture. Langouet S, et al. **Adv Exp Med Biol** 1996; 387:439–42
Linking the metabolism of hydroquinone to its nephrotoxicity and nephrocarcinogenicity. Lau SS, et al. **Adv Exp Med Biol** 1996;387:267–73
Mechanisms of nitrosamine bioactivation and carcinogenesis.

Yang CS, et al. **Adv Exp Med Biol** 1996;387:385–94 (40 ref.)

Workers exposed to thermal degradation products of TDI- and MDI-based polyurethane: biomonitoring of 2,4-TDA, 2,6-TDA, and 4,4'-MDA in hydrolyzed urine and plasma. Dalene M, et al. **Am Ind Hyg Assoc J** 1997 Aug; 58(8):587–91

Effects of orally administered capsaicin, the principal component of capsicum fruits, on the in vitro metabolism of the tobacco-specific nitrosamine NNK in hamster lung and liver microsomes. Zhang Z, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1093–8

Mechanism of differential catalytic efficiency of two polymorphic forms of human glutathione S-transferase P1–1 in the glutathione conjugation of carcinogenic diol epoxide of chrysene. Hu X, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):32–8

Differential catalytic efficiency and enantioselectivity of murine glutathione S-transferase isoenzymes in the glutathione conjugation of carcinogenic anti-diol epoxides of chrysene and benzo(g)chrysene. Hu X, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):318–24

Effects of caloric restriction on expression of testicular cytochrome P450 enzymes associated with the metabolic activation of carcinogens. Seng JE, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):42–52

The role of CYP2E1 and 2B1 in metabolic activation of benzene derivatives. Gut I, et al. **Arch Toxicol** 1996; 71(1–2):45–56

Active site architecture of polymorphic forms of human glutathione S-transferase P1–1 accounts for their enantioselectivity and disparate activity in the glutathione conjugation of 7beta,8alpha-dihydroxy-9alpha,10alpha-oxy-7,8,9,10-tetrahydrobenzo(a)pyrene. Hu X, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):424–8

The catalytic activity of the endoplasmic reticulum-resident protein microsomal epoxide hydrolase towards carcinogens is retained on inversion of its membrane topology. Friedberg T, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):131–6

Critical parameters for adduct formation of the carcinogen (+)-anti-benzo[a]pyrene-7,8-dihydrodiol 9,10-epoxide with oligonucleotides. Funk M, et al. **Bioconjug Chem** 1997 May–Jun;8(3):310–7

Interactions of procarcinogenic heterocyclic amines and indolocarbazoles with the dioxin receptor. Kleman M, et al. **Biol Chem** 1996 Nov;377(11):741–62 (270 ref.)

Further metabolism of 2-formylaminofluorene, a metabolite of 2-aminofluorene, in rats. Ueda O, et al. **Biol Pharm Bull** 1996 Feb;19(2):330–3

Chemoprevention of carcinogen-DNA binding: the relative role of different oxygenated substituents on 4-methylcoumarins in the inhibition of aflatoxin B1-DNA binding in vitro. Raj HG, et al. **Bioorg Med Chem** 1996 Dec;4(12):2225–8

Tumor promoter-like activity of the molluscicidal latex of 'Crown-of-Thorns' (Euphorbia milii var. hislopii) in the V79 metabolic cooperation assay. Cruz CM, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1519–23

Purification and characterization of the esterases involved in aflatoxin biosynthesis in Aspergillus parasiticus. Kusumoto K, et al. **Can J Microbiol** 1996 Aug;42(8):804–10

Chemical carcinogenesis, mutagenesis, and teratogenesis. O'Brien PJ, et al. **Can J Physiol Pharmacol** 1996 May; 74(5):565–71

Analysis of human urine for pyridine-N-oxide metabolites of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a tobacco-specific lung carcinogen. Carmella SG, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):113–20

Effects of multiple risk factors for hepatocellular carcinoma on formation of aflatoxin B1-DNA adducts. Yu MW, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):613–9

Hydroxylation of carbon atoms of the alkyl chain of symmetrical N-nitrosodialkylamines by rat liver microsomes. Bellec G, et al. **Cancer Lett** 1996 Nov 29; 108(2):171–8

N-nitroso compounds induce changes in carcinogen-metabolizing enzymes. Sheweita SA, et al. **Cancer Lett** 1996 Sep 10;106(2):243–9

Experimental evidence for cancer preventive elements in foods. Wargovich MJ. **Cancer Lett** 1997 Mar 19; 114(1–2):11–7 (63 ref.)

Evidence for an important role of DNA pyridyloxobutylation in rat lung carcinogenesis by 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone: effects of dose and phenethyl isothiocyanate. Staretz ME, et al. **Cancer Res** 1997 Jan 15;57(2):259–66

Site-specific modification of the human N-ras proto-oncogene with each diol epoxide metabolite of benzo[a]pyrene and thermal denaturation studies of the adducted duplexes. Chaturvedi S, et al. **Carcinogenesis** 1996 Dec;17(12):2747–52

Excretion of DNA adducts of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and 2-amino-3,4,8-trimethylimidazo[4,5-f]quinoxaline, PhIP-dG, PhIP-DNA and DiMeIQx-DNA from the rat. Frandsen H. **Carcinogenesis** 1997 Aug;18(8):1555–60

Metabolism of carcinogenic heterocyclic and aromatic amines by recombinant human cytochrome P450 enzymes. Hammons GJ, et al. **Carcinogenesis** 1997 Apr;18(4):851–4

32P-postlabelling/HPLC assay reveals an enantioselective adduct formation in N7 guanine residues in vivo after 1,3-butadiene inhalation exposure. Koivisto P, et al. **Carcinogenesis** 1997 Feb;18(2):439–43

32P-postlabelling analysis of isomeric 7-alkylguanine adducts of styrene oxide. Kumar R, et al. **Carcinogenesis** 1997 Feb; 18(2):407–14

Copper-mediated DNA damage by metabolites of p-dichlorobenzene. Oikawa S, et al. **Carcinogenesis** 1996 Dec;17(12):2733–9

Minor products of reaction of DNA with alpha-acetoxytamoxifen. Osborne MR, et al. **Carcinogenesis** 1997 Mar;18(3):539–43

Cytochrome P450 species involved in the metabolism of quinoline. Reigh G, et al. **Carcinogenesis** 1996 Sep; 17(9):1989–96

Opium and oesophageal cancer: effect of morphine and opium on the metabolism of N-nitrosodimethylamine and N-nitrosodiethylamine in the rat. Ribeiro Pinto LF, et al. **Carcinogenesis** 1997 Feb;18(2):365–9

Estrogen-nucleic acid adducts: guanine is major site for interaction between 3,4-estrone quinone and COIII gene. Roy D, et al. **Carcinogenesis** 1997 Jun;18(6):1247–9

Effects of phenobarbital and 3-methylcholanthrene induction on the formation of three glucuronide metabolites of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, NNK. Murphy SE, et al. **Chem Biol Interact** 1997 Mar 14; 103(3):153–66

Inter-individual variability in the oxidation of 1,2-dibromoethane: use of heterologously expressed human cytochrome P450 and human liver microsomes. Wormhoudt LW, et al. **Chem Biol Interact** 1996 Sep 6; 101(3):175–92

Detection and identification of metabolites of microcystins formed in vivo in mouse and rat livers. Kondo F, et al. **Chem Res Toxicol** 1996 Dec;9(8):1355–9

Stereochemical aspects of 1,3-butadiene metabolism and toxicity in rat and mouse liver microsomes and freshly isolated rat hepatocytes. Nieusma JL, et al. **Chem Res Toxicol** 1997 Apr;10(4):450–6

Oxidative DNA damage induced by activation of polychlorinated biphenyls (PCBs): implications for PCB-induced oxidative stress in breast cancer. Oakley GG, et al. **Chem Res Toxicol** 1996 Dec;9(8):1285–92

Stereoselective activation of dibenzo[a,l]pyrene and its trans-11,12-dihydrodiol to fjord region 11,12-diol 13,14-epoxides in a human mammary carcinoma MCF-7 cell-mediated V79 cell mutation assay. Ralston SL, et al. **Chem Res Toxicol** 1997 Jun;10(6):687–93

Aromatic hydrocarbon quinone-mediated reactive oxygen species production on hepatic microsomes of the flounder (Platichthys flesus L.). Lemaire P, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):131–9

Uptake and efflux of polycyclic aromatic hydrocarbons by Tetrahymena pyriformis: evidence for a resistance mechanism. Bamdad M, et al. **Cytometry** 1997 Jun 1; 28(2):170–5

Co-oxidative metabolism of 4-aminobiphenyl by lipoxygenase from soybean and human term placenta. Datta K, et al. **Drug Metab Dispos** 1997 Feb;25(2):196–205

3-Hydroxymethylcholanthrene: metabolic formation from 3-methylcholanthrene and stereoselective metabolism by rat liver microsomes. Shou M, et al. **Drug Metab Dispos** 1996 May;24(5):595–601

Comparative metabolism of the tobacco-related carcinogens benzo[a]pyrene, 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol, and N'-nitrosonornicotine in human hepatic microsomes. Staretz ME, et al. **Drug Metab Dispos** 1997 Feb;25(2):154–62

Quantitative structure-activity relationships in substrates, inducers, and inhibitors of cytochrome P4501 (CYP1). Lewis DF. **Drug Metab Rev** 1997 Aug;29(3):589–650 (64 ref.)

Transplacental transfer of environmental genotoxins--polycyclic aromatic hydrocarbon-albumin in nonsmoking women. Autrup H, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:625–7

Involvement of cytochrome P450, glutathione S-transferase, and epoxide hydrolase in the metabolism of aflatoxin B1 and relevance to risk of human liver cancer. Guengerich FP, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:557–62

Biological monitoring of workers exposed to N-nitrosodiethanolamine in the metal industry. Monarca S, et al. **Environ Health Perspect** 1996 Jan;104(1):78–82

Cytogenetic markers of susceptibility: influence of polymorphic carcinogen-metabolizing enzymes. Norppa H. **Environ Health Perspect** 1997 Jun;105 Suppl 4:829–35 (53 ref.)

Dual role of oestrogens as hormones and pro-carcinogens: tumour initiation by metabolic activation of oestrogens. Liehr JG. **Eur J Cancer Prev** 1997 Feb;6(1):3–10 (75 ref.)

Metabolites of 4-(N-methylnitrosamino)-1-(3-pyridyl)-1-butanone in urine of smokers [published erratum appears in Eur J Cancer Prev 1997 Feb;6(1):99] Meger M, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:121–4

Sulfation and sulfotransferases 4: bioactivation of mutagens via sulfation. Glatt H. **FASEB J** 1997 Apr;11(5):314–21 (41 ref.)

Co-production of aflatoxins and cyclopiazonic acid in isolates of Aspergillus flavus. Gqaleni N, et al. **Food Addit Contam** 1996 Aug-Sep;13(6):677–85

The effects of milling and processing on wheat contaminated with ochratoxin A. Osborne BG, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):141–53

Influence of carcinogen binding by lactic acid-producing bacteria on tissue distribution and in vivo mutagenicity of dietary carcinogens. Bolognani F, et al. **Food Chem Toxicol** 1997 Jun;35(6):535–45

Potential nitrosamine formation and its prevention during biological denitrification of red beet juice. Kolb E, et al. **Food Chem Toxicol** 1997 Feb;35(2):219–24

Differential induction of carcinogen metabolizing enzymes in a transgenic mouse model of fulminant hepatitis. Chemin I, et al. **Hepatology** 1996 Sep;24(3):649–56

Use of carcinogen-DNA and carcinogen-protein adduct biomarkers for cohort selection and as modifiable end points in chemoprevention trials. Kensler TW, et al. **IARC Sci Publ** 1996;(139):237–48 (70 ref.)

Reduced toxicity and enhanced antitumor efficacy of betacyclodextrin plumbagin inclusion complex in mice bearing Ehrlich ascites carcinoma. Singh UV, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):171–5

Differential tolerance to DNA polymerization by HIV-1 reverse transcriptase on N6 adenine C10R and C10S benzo[a]pyrene-7,8-dihydrodiol 9,10-epoxide-adducted templates. Chary P, et al. **J Biol Chem** 1997 Feb 28; 272(9):5805–13

Carcinogen-DNA and protein adducts: biomarkers for cohort selection and modifiable endpoints in chemoprevention trials. Kensler TW, et al. **J Cell Biochem Suppl** 1996;25:85–91 (30 ref.)

Identification and quantitative determination of 3-chloro-2-hydroxypropylmercapturic acid and alpha-chlorohydrin in urine of rats treated with epichlorohydrin. De Rooij BM, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):241–50

Effects of inducers and inhibitors on the microsomal metabolism of styrene to styrene oxide in mice. Carlson GP. **J Toxicol Environ Health** 1997 Aug 8;51(5):477–88

Plasmid-encoded genes specifying aniline oxidation from Acinetobacter sp. strain YAA. Fujii T, et al. **Microbiology** 1997 Jan;143 (Pt 1):93–9

ATP-dependent transport of aflatoxin B1 and its glutathione conjugates by the product of the multidrug resistance protein (MRP) gene. Loe DW, et al. **Mol Pharmacol** 1997 Jun;51(6):1034–41

Characterization of enzyme activities and cofactors involved in bioactivation and bioinactivation of chemical carcinogens in the tester strains Escherichia coli K12 MX100 and Salmonella typhimurium LT2 TA100. Kranendonk M, et al. **Mutagenesis** 1997 Jul;12(4):245–54

Naturally occurring diallyl disulfide inhibits the formation of carcinogenic heterocyclic aromatic amines in boiled pork juice. Tsai SJ, et al. **Mutagenesis** 1996 May;11(3):235–40

Immunochemical, 32P-postlabeling, and GC/MS detection of 4-aminobiphenyl-DNA adducts in human peripheral lung in relation to metabolic activation pathways involving pulmonary N-oxidation, conjugation, and peroxidation. Culp SJ, et al. **Mutat Res** 1997 Aug 1;378(1–2):97–112

Role of acetyltransferases in the metabolism and carcinogenicity of aromatic amines. King CM, et al. **Mutat Res** 1997 May 12;376(1–2):123–8 (23 ref.)

Arylamine activating sulfotransferase in liver. Nagata K, et al. **Mutat Res** 1997 May 12;376(1–2):267–72

DNA adducts of heterocyclic amines: formation, removal and inhibition by dietary components. Schut HA, et al. **Mutat Res** 1997 May 12;376(1–2):185–94

The role of xenobiotic metabolizing enzymes in arylamine toxicity and carcinogenesis: functional and localization studies. Windmill KF, et al. **Mutat Res** 1997 May 12; 376(1–2):153–60 (44 ref.)

In vitro microsome-mediated aflatoxin B1-DNA binding and its inhibition by cytosol of various organs of the hamster and quail. Kono M, et al. **Mycopathologia** 1995 Nov; 132(2):117–9

S-allyl cysteine inhibits nitrosomorpholine formation and bioactivation. Dion ME, et al. **Nutr Cancer** 1997;28(1):1–6

Biomarkers of exposure to low concentrations of benzene: a field assessment [letter; comment] Johnson ES. **Occup Environ Med** 1997 Jan;54(1):68. Comment on: Occup Environ Med 1996 May;53(5):328–33.

Saccharin mechanistic data and risk assessment: urine composition, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996; 71(1–2):225–52 (172 ref.)

The changing cigarette. Hoffmann D, et al. **Prev Med** 1997 Jul–Aug;26(4):427–34 (57 ref.)

Metabolism of the food carcinogen 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) in the rat and other rodents. Alexander J, et al. **Princess Takamatsu Symp** 1995;23:113–22 (35 ref.)

Mechanisms of cytochrome P450 1A2-mediated formation of N-hydroxy arylamines and heterocyclic amines and their reaction with guanyl residues. Guengerich FP, et al. **Princess Takamatsu Symp** 1995;23:78–84 (32 ref.)

Metabolic activation and DNA adduct detection of PhIP in dogs, rats, and humans in relation to urinary bladder and colon carcinogenesis. Kadlubar F, et al. **Princess Takamatsu Symp** 1995;23:207–13

Function and localization of cytochromes P450 involved in the metabolic activation of food-derived heterocyclic amines. McKinnon RA, et al. **Princess Takamatsu Symp** 1995;23:145–53

Superoxide radical generation from heterocyclic amines. Maeda H, et al. **Princess Takamatsu Symp** 1995;23:103–12 (27 ref.)

Activation and effects of the food-derived heterocyclic amines in extrahepatic tissues. Overvik E, et al. **Princess Takamatsu Symp** 1995;23:123–33 (50 ref.)

Metabolic processing and disposition of 2-amino-3-methylimidazo[4,5-f] quinoline (IQ), 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline (MeIQx), and 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) in nonhuman primates. Snyderwine EG, et al. **Princess Takamatsu Symp** 1995;23:69–77

MeIQx (2-amino-3,8-dimethylimidazo [4,5-f]quinoxaline): metabolism in humans and urinary metabolites in human populations. Tannenbaum SR, et al. **Princess Takamatsu Symp** 1995;23:197–206

Metabolism of heterocyclic aromatic amines and strategies of human biomonitoring. Turesky RJ, et al. **Princess Takamatsu Symp** 1995;23:59–68 (30 ref.)

Assessment of the DNA adduction and pharmacokinetics of PhIP and MeIOx in rodents at doses approximating human exposure using the technique of accelerator mass spectrometry (AMS) and 32P-postlabeling. Turteltaub KW, et al. **Princess Takamatsu Symp** 1995;23:93–102 (30 ref.)

Activation and detoxication of carcinogenic arylamines by sulfation. Yamazoe Y, et al. **Princess Takamatsu Symp** 1995; 23:154–62 (47 ref.)

Cellular strategies for accommodating replication-hindering adducts in DNA: control by the SOS response in Escherichia coli. Koffel-Schwartz N, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7805–10

Vinyl chloride loss during laboratory holding time. Soule R, et al. **Regul Toxicol Pharmacol** 1996 Jun;23(3):209–12

The role of carcinogen-metabolizing enzyme polymorphisms in cancer susceptibility. Gonzalez FJ. **Reprod Toxicol** 1997 Mar-Jun;11(2–3):397–412 (205 ref.)

Direct interaction between crystalline silica and DNA – a proposed model for silica carcinogenesis. Daniel LN, et al. **Scand J Work Environ Health** 1995;21 Suppl 2:22–6

Reference values of urinary ethylenethiourea in four regions of Italy (multicentric study). Aprea C, et al. **Sci Total Environ** 1996 Nov 29;192(1):83–93

Isolation of a bacterium that reductively dechlorinates tetrachloroethene to ethene [see comments] Maymó-Gatell X, et al. **Science** 1997 Jun 6;276(5318):1568–71. Comment in: Science 1997 Jun 6;276(5318):1521–2.

Cloning, sequencing, and recombinant expression of NAT1, NAT2, and NAT3 derived from the C3H/HeJ (rapid) and A/HeJ (slow) acetylator inbred mouse: functional characterization of the activation and deactivation of aromatic amine carcinogens. Fretland AJ, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):360–6

In vivo aflatoxin B1 metabolism and hepatic DNA adduction in zebrafish (Danio rerio). Troxel CM, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):213–20

Reduction of benzene metabolism and toxicity in mice that lack CYP2E1 expression. Valentine JL, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):205–13

Dietary restriction modulated carcinogen-DNA adduct formation and the carcinogen-induced DNA strand breaks. Chou MW, et al. **Toxicol Lett** 1997 Jun 16;92(1):21–30

Differential reactivities of the mono- and di-epoxide of 1,3-butadiene. Bolt HM, et al. **Toxicology** 1996 Oct 28; 113(1–3):294–6

Biological formation of the 1,3-butadiene DNA adducts 7-N-(2-hydroxy-3-buten-1-yl)guanine, 7-N-(1-hydroxy-3-buten-2-yl)guanine and 7-N-(2,3,4-trihydroxy-butyl)guanine. Bolt HM, et al. **Toxicology** 1996 Oct 28;113(1–3):328–30

Hepatic and pulmonary glutathione conjugation of 1,2:3,4-diepoxybutane in human, rat, and mouse in vitro. Boogaard PJ, et al. **Toxicology** 1996 Oct 28;113(1–3):297–9

Biochemistry of 1,3-butadiene metabolism and its relevance to 1,3-butadiene-induced carcinogenicity. Elfarra AA, et al. **Toxicology** 1996 Oct 28;113(1–3):23–30

Metabolism of 1,3-butadiene: species differences. Henderson RF, et al. **Toxicology** 1996 Oct 28;113(1–3):17–22 (18 ref.)

Liquid chromatography/electrospray ionization tandem mass spectroscopy (LC/ESI MS/MS) analysis of 1,2-epoxybutene adducts of purine deoxynucleosides. Kambouris SJ, et al. **Toxicology** 1996 Oct 28;113(1–3):331–5

32P-postlabeling of 1,3-butadiene and 4-vinyl-1-cyclohexene metabolite-DNA adducts: in vitro and in vivo applications. Mabon N, et al. **Toxicology** 1996 Oct 28;113(1–3):341–4

1,3-Butadiene metabolism by lung airways isolated from mice and rats. Seaton MJ, et al. **Toxicology** 1996 Oct 28; 113(1–3):314–7

Gender and species differences in the metabolism of 1,3-butadiene to butadiene monoepoxide and butadiene diepoxide in rodents following low-level inhalation exposures. Thornton-Manning JR, et al. **Toxicology** 1996 Oct 28;113(1–3):322–5

Metabolic activation of pyrrolizidine alkaloids by human, rat and avocado microsomes. Couet CE, et al. **Toxicon** 1996 Sep;34(9):1058–61

Mass spectrometric screening method for microcystins in cyanobacteria. Harada K, et al. **Toxicon** 1996 Jun; 34(6):701–10

Aflatoxin B1 epoxidation catalysed by partially purified human liver lipoxygenase. Roy SK, et al. **Xenobiotica** 1997 Feb;27(2):231–41

[The effect of selenium on the formation of carcinogenic N-nitrosamines] Deriagina VP, et al. **Vopr Pitan** 1996; (3):31–3 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Hepatic epoxide concentrations during biotransformation of 1,2- and 1,4-dichlorobenzene: the use of in vitro and in vivo metabolism, kinetics and PB-PK modeling. Hissink E, et al. **Adv Exp Med Biol** 1996;387:129–33

Kinetic analysis of the activation of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone by heterologously expressed human P450 enzymes and the effect of P450-specific chemical inhibitors on this activation in human liver microsomes. Patten CJ, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):127–38

Mutagenic activation of urinary bladder carcinogens by CYP4B1 and the presence of CYP4B1 in bladder mucosa. Imaoka S, et al. **Biochem Pharmacol** 1997 Sep 15; 54(6):677–83

Temporal variation in chlorinated hydrocarbons in healthy women. Gammon MD, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):327–32

Reduced aliquot size for a plasma organochlorine assay for use in epidemiological studies. Laden F, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):333–8

Effects of indole-3-carbinol on the metabolism of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in smokers. Taioli E, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):517–22

Mechanism of enhancement of esophageal tumorigenesis by 6-phenylhexyl isothiocyanate [published erratum appears in Cancer Lett 1997 Jun 3;116(1):117] Morse MA, et al. **Cancer Lett** 1997 Jan 15;112(1):119–25

Metabolic activation of benzo[g]chrysene in the human mammary carcinoma cell line MCF-7. Agarwal R, et al. **Cancer Res** 1997 Feb 1;57(3):415–9

Inhibitory effects of naturally occurring coumarins on the metabolic activation of benzo[a]pyrene and 7,12-dimethylbenz[a]anthracene in cultured mouse keratinocytes. Cai Y, et al. **Carcinogenesis** 1997 Jan; 18(1):215–22

Biotransformation of aflatoxin B1 in human lung. Donnelly PJ, et al. **Carcinogenesis** 1996 Nov;17(11):2487–94

Effect of ovariectomy on the in vitro and in vivo activation of carcinogenic N-2-fluorenylhydroxamic acids by rat mammary gland and liver. Ritter CL, et al. **Carcinogenesis** 1996 Nov;17(11):2411–8

Metabolic activation of the potent carcinogen dibenzo[a,l]pyrene by human recombinant cytochromes P450, lung and liver microsomes. Shou M, et al. **Carcinogenesis** 1996 Nov;17(11):2429–33

Kinetics and metabolism of 1,4-dichlorobenzene in male Wistar rats: no evidence for quinone metabolites. Hissink AM, et al. **Chem Biol Interact** 1997 Jan 24;103(1):17–33

Disposition of butadiene epoxides in Sprague-Dawley rats. Valentine JL, et al. **Chem Biol Interact** 1997 May 2; 104(2–3):103–15

Role of cytochrome P450 enzyme induction in the metabolic activation of benzo[c]phenanthrene in human cell lines and mouse epidermis. Einolf HJ, et al. **Chem Res Toxicol** 1997 May;10(5):609–17

Characterization of urinary metabolites from Sprague-Dawley rats and B6C3F1 mice exposed to [1,2,3,4-13C]butadiene. Nauhaus SK, et al. **Chem Res Toxicol** 1996 Jun;9(4):764–73

Activation and inactivation of carcinogenic dihaloalkanes and other compounds by glutathione S-transferase 5-5 in Salmonella typhimurium tester strain NM5004. Shimada T, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):333–40

Exposure to and activation of dietary heterocyclic amines in humans. Lynch AM, et al. **Crit Rev Oncol Hematol** 1995 Nov;21(1–3):19–31 (124 ref.)

Human cytochrome P4502B6: interindividual hepatic expression, substrate specificity, and role in procarcinogen activation. Code EL, et al. **Drug Metab Dispos** 1997 Aug; 25(8):985–93

Controlled modulation of BBB permeability using the bradykinin agonist, RMP-7. Bartus RT, et al. **Exp Neurol** 1996 Nov;142(1):14–28

Influence of carcinogen binding by lactic acid-producing bacteria on tissue distribution and in vivo mutagenicity of dietary carcinogens. Bolognani F, et al. **Food Chem Toxicol** 1997 Jun;35(6):535–45

Percutaneous penetration of N-nitroso-N-methyldodecylamine through human skin in vitro: application from cosmetic vehicles. Walters KA, et al. **Food Chem Toxicol** 1997 Jul;35(7):705–12

Small-intestinal absorption of cadmium and the significance of mucosal metallothionein. Elsenhans B, et al. **Hum Exp Toxicol** 1997 Aug;16(8):429–34 (28 ref.)

Blocking the endogenous formation of N-nitroso compounds and related carcinogens. Bartsch H, et al. **IARC Sci Publ** 1996;(139):189–201 (82 ref.)

Effect of environmental conditions on the penetration of benzene through human skin. Nakai JS, et al. **J Toxicol Environ Health** 1997 Aug 8;51(5):447–62

Binding of Cd to metallothionein in the placenta of Cd-treated mouse. Itoh N, et al. **J Toxicol Sci** 1996 Feb; 21(1):19–27

Specificity of cDNA-expressed human and rodent cytochrome P450s in the oxidative metabolism of the potent carcinogen 7,12-dimethylbenz[a]anthracene. Shou M, et al. **Mol Carcinog** 1996 Dec;17(4):241–9

ATP-dependent transport of aflatoxin B1 and its glutathione conjugates by the product of the multidrug resistance protein (MRP) gene. Loe DW, et al. **Mol Pharmacol** 1997 Jun;51(6):1034–41

N-nitrosodiethylamine mechanistic data and risk assessment: bioactivation, DNA-adduct formation, mutagenicity, and tumor initiation. Verna L, et al. **Pharmacol Ther** 1996; 71(1–2):57–81 (96 ref.)

Benzidine mechanistic data and risk assessment: species- and organ-specific metabolic activation. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):107–26 (146 ref.)

Case studies for statistical analysis of toxicokinetic data. Igarashi T, et al. **Regul Toxicol Pharmacol** 1996 Jun; 23(3):193–208 (11 ref.)

Formation of glutathione adducts and 2-aminofluorene from 2-nitrosofluorene in postimplantation rat conceptuses in vitro. Berberian RM, et al. **Reprod Toxicol** 1996 Jul-Aug; 10(4):273–84

Pharmacokinetics and metabolism of vinyl fluoride in vivo and in vitro. Cantoreggi S, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):130–9

Species and strain differences in the hepatic cytochrome P450-mediated biotransformation of 1,4-dichlorobenzene. Hissink AM, et al. **Toxicol Appl Pharmacol** 1997 Jul; 145(1):1–9

Pharmacokinetics of ochratoxin A and its metabolites in rats. Li S, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):82–90

Toxicokinetics and disposition of inorganic mercury and cadmium in channel catfish after intravascular administration. Schultz IR, et al. **Toxicol Appl Pharmacol** 1996 Sep;140(1):39–50

Nasal cytochrome P450 2A: identification, regional localization, and metabolic activity toward hexamethylphosphoramide, a known nasal carcinogen. Thornton-Manning JR, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):22–30

Metabolism of butadiene by mice, rats, and humans: a comparison of physiologically based toxicokinetic model predictions and experimental data. Bond JA, et al. **Toxicology** 1996 Oct 28;113(1–3):48–54

A physiological toxicokinetic model for 1,3-butadiene in rodents and man: blood concentrations of 1,3-butadiene, its metabolically formed epoxides, and of haemoglobin adducts--relevance of glutathione depletion. Csanády GA, et al. **Toxicology** 1996 Oct 28;113(1–3):300–5

Metabolism of 1,3-butadiene: inhalation pharmacokinetics and tissue dosimetry of butadiene epoxides in rats and mice. Himmelstein MW, et al. **Toxicology** 1996 Oct 28; 113(1–3):306–9

PBPK model for butadiene metabolism to epoxides: quantitative species differences in metabolism. Johanson G, et al. **Toxicology** 1996 Oct 28;113(1–3):40–7

Effects of the structure of a toxicokinetic model of butadiene inhalation exposure on computed production of carcinogenic intermediates. Kohn MC, et al. **Toxicology** 1996 Oct 28;113(1–3):31–9

Pharmacokinetic model describing the disposition of butadiene and styrene in mice. Leavens TL, et al. **Toxicology** 1996 Oct 28;113(1–3):310–3

Physiologically based pharmacokinetic modeling of blood and tissue epoxide measurements for butadiene. Sweeney LM, et al. **Toxicology** 1996 Oct 28;113(1–3):318–21

Further studies on the urinary metabolites of 2,4-dinitrotoluene and 2,6-dinitrotoluene in the male Wistar rat. Mori MA, et al. **Xenobiotica** 1996 Jan; 26(1):79–88

PHARMACOLOGY

Asbestos causes translocation of p65 protein and increases NF-kappa B DNA binding activity in rat lung epithelial and pleural mesothelial cells. Janssen YM, et al. **Am J Pathol** 1997 Aug;151(2):389–401

Novel cell imaging techniques show induction of apoptosis and proliferation in mesothelial cells by asbestos. Goldberg JL, et al. **Am J Respir Cell Mol Biol** 1997 Sep;17(3):265–71

Hepatocarcinogenesis of peroxisome proliferators. Rao MS, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:573–87 (142 ref.)

Inhibition instead of enhancement of lipid peroxidation by pretreatment with the carcinogenic peroxisome proliferator nafenopin in rat liver exposed to a high single dose of corn oil. Huber WW, et al. **Arch Toxicol** 1997;71(9):575–81

Evidence that human class Theta glutathione S-transferase T1-1 can catalyse the activation of dichloromethane, a liver and lung carcinogen in the mouse. Comparison of the tissue distribution of GST T1-1 with that of classes Alpha, Mu and Pi GST in human. Sherratt PJ, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):837–46

Activation of protein kinase C subtypes alpha, gamma, delta, epsilon, zeta, and eta by tumor-promoting and nontumor-promoting agents. Geiges D, et al. **Biochem Pharmacol** 1997 Mar 21;53(6):865–75

Evidence against peroxisome proliferation-induced hepatic oxidative damage. Soliman MS, et al. **Biochem Pharmacol** 1997 May 9;53(9):1369–74

Downregulation of intracellular cyclic AMP levels by tumour promoting agents. Morrow DM, et al. **Biochem Soc Trans** 1997 Feb;25(1):148S

DNA modifying agents as tools for studying chromatin structure. Millard JT. **Biochimie** 1996;78(10):803–16 (174 ref.)

Replication of DNA containing cisplatin lesions and its mutagenic consequences. Pillaire MJ, et al. **Biochimie** 1995; 77(10):803–7 (41 ref.)

Involvement of nitric oxide synthesis in hepatic perturbations induced in rats by a necrogenic dose of thioacetamide. Díez–Fernández C, et al. **Br J Pharmacol** 1997 Jun; 121(4):820–6

Mitochondrial and cytosolic rhodanese from liver of DAB–treated mice. III. Inhibition kinetic studies. Vazquez E, et al. **Cancer Biochem Biophys** 1997 Jun;15(4):285–93

Multienzyme–mediated stable and transient multidrug resistance and collateral sensitivity induced by xenobiotics. Rekha GK, et al. **Cancer Chemother Pharmacol** 1997; 40(3):215–24

Effect of 2–chloro–4–methylthiobutanoic acid in a rapid bioassay for gastric carcinogens. Furihata C, et al. **Cancer Lett** 1996 Nov 12;108(1):129–35

Dose–related increases in quantitative values for altered hepatocytic foci and cytochrome P–450 levels in the livers of rats exposed to phenobarbital in a medium–term bioassay. Hagiwara A, et al. **Cancer Lett** 1996 Dec 20; 110(1–2):155–62

Oxidative stress to DNA, protein, and antioxidant enzymes (superoxide dismutase and catalase) in rats treated with benzo(a)pyrene. Kim KB, et al. **Cancer Lett** 1997 Feb 26; 113(1–2):205–12

Promotion by mixtures of dichloroacetic acid and trichloroacetic acid of N–methyl–N–nitrosourea–initiated cancer in the liver of female B6C3F1 mice. Pereira MA, et al. **Cancer Lett** 1997 May 1;115(1):15–23

A comparative study on the effect of MNU on human lymphocyte cultures in vitro evaluated by O6–mdG formation, micronuclei and sister chromatid exchanges induction. Stephanou G, et al. **Cancer Lett** 1996 Dec 3; 109(1–2):109–14

Coordinated expression of matrilysin during TPA–induced apoptosis of LNCaP cells: two parallel processes affected by TPA. Sundareshan P, et al. **Cancer Lett** 1997 Feb 26; 113(1–2):17–24

The pleiotropic effect of TPA on in vitro invasion/migration of glioma and melanoma cell lines. Szaniawska B, et al. **Cancer Lett** 1996 Oct 22;107(2):205–9

Defects in p21WAF1/CIP1, Rb, and c–myc signaling in phorbol ester–resistant cancer cells. Blagosklonny MV, et al. **Cancer Res** 1997 Jan 15;57(2):320–5

Tamoxifen–induced DNA adducts in endometrial samples from breast cancer patients. Hemminki K, et al. **Cancer Res** 1996 Oct 1;56(19):4374–7

Apoptosis resistance increases with metastatic potential in cells of the human LNCaP prostate carcinoma line. McConkey DJ, et al. **Cancer Res** 1996 Dec 15;56(24):5594–9

Selective up–regulation of protein kinase C eta in phorbol ester–sensitive versus –resistant EL4 mouse thymoma cells. Resnick MS, et al. **Cancer Res** 1997 Jun 1;57(11):2209–15

Galanin, neurotensin, and phorbol esters rapidly stimulate activation of mitogen–activated protein kinase in small cell lung cancer cells. Seufferlein T, et al. **Cancer Res** 1996 Dec 15;56(24):5758–64

Vitamin E inhibits apoptosis, DNA modification, and cancer incidence induced by iron–mediated peroxidation in Wistar rat kidney. Zhang D, et al. **Cancer Res** 1997 Jun 15; 57(12):2410–4

Patterns of 8–hydroxydeoxyguanosine formation in DNA and indications of oxidative stress in rat and human pleural mesothelial cells after exposure to crocidolite asbestos. Fung H, et al. **Carcinogenesis** 1997 Apr;18(4):825–32

Fpg protein releases a ring–opened N–7 guanine adduct from DNA that has been modified by sulfur mustard. Li Q, et al. **Carcinogenesis** 1997 May;18(5):1035–8

PDGF AA as mediator in nicotine–dependent carcinogenesis. Rakowicz–Szulczynska EM, et al. **Carcinogenesis** 1996 Sep;17(9):1813–8

Kupffer cells are causally responsible for the mitogenic effect of peroxisome proliferators. Rose ML, et al. **Carcinogenesis** 1997 Aug;18(8):1453–6

Alkylation of cellular macromolecules and target specificity of carcinogenic nitrosodialkylamines: metabolic activation by cytochromes P450 2B1 and 2E1. Shu L, et al. **Carcinogenesis** 1997 Apr;18(4):801–10

Carcinogenic polycyclic aromatic hydrocarbons increase intracellular Ca2+ and cell proliferation in primary human mammary epithelial cells. Tannheimer SL, et al. **Carcinogenesis** 1997 Jun;18(6):1177–82

Posttranslational regulation of Lck and a p36–38 protein by activators of protein kinase C: differential effects of the tumor promoter, PMA, and the non–tumor–promoter, bryostatin. Galron D, et al. **Cell Immunol** 1997 Jun 15; 178(2):141–51

Failure of carcinogen–altered dendritic cells to initiate T cell proliferation is associated with reduced IL–1 beta secretion. Ragg SJ, et al. **Cell Immunol** 1997 May 25;178(1):17–23

Tax–independent stimulation of human T–cell leukemia virus type–I expression and differential effects on its infectivity by subtoxic and toxic doses of 3–methylcholanthrene. Revazova T, et al. **Cell Mol Biol Res** 1995;41(5):377–85

Cell proliferation and nuclear abnormalities are increased and apoptosis is decreased in the epidermis of the p53 null mouse after topical application of benzo[a]pyrene. Miller ML, et al. **Cell Prolif** 1996 Oct;29(10):561–76

Apoptosis induced by methylazoxymethanol in developing rat cerebellum: organization of the cell nucleus and its relationship to DNA and rRNA degradation. Lafarga M, et al. **Cell Tissue Res** 1997 Jul;289(1):25–38

The ability to alter the gap junction protein expression outside GST–P positive foci in liver of rats was associated to the tumour promotion potency of different polychlorinated biphenyls. Bager Y, et al. **Chem Biol Interact** 1997 Mar 14;103(3):199–212

Mechanistic studies of the inhibition of MutT dGTPase by the carcinogenic metal Ni(II). Porter DW, et al. **Chem Res Toxicol** 1996 Dec;9(8):1375–81

Human NAD(P)H:quinone oxidoreductase induction in human hepatoma cells after exposure to industrial acrylates, phenolics, and metals. Winner EJ, et al. **Drug Metab Dispos** 1997 Feb;25(2):175–81

Low molecular weight proteins secreted by peritoneal macrophages obtained from 2,3,7,8–tetrabromodibenzo–p–dioxin–treated NMRI mice. Schlatterer K, et al. **Electrophoresis** 1997 Jan;18(1):136–41

The tumor promoter arsenite stimulates AP–1 activity by inhibiting a JNK phosphatase. Cavigelli M, et al. **EMBO J** 1996 Nov 15;15(22):6269–79

12–O–tetradecanoylphorbol–13–acetate inhibits aminophospholipid translocase activity and modifies the lateral motions of fluorescent phospholipid analogs in the plasma membrane of bovine aortic endothelial cells. Julien M, et al. **Exp Cell Res** 1997 Jul 10;234(1):125–31

Cyclosporin A rescues thymocytes from apoptosis induced by very low concentrations of thapsigargin: effects on mitochondrial function. Waring P, et al. **Exp Cell Res** 1996 Sep 15;227(2):264–76

Evidence for prothrombin production and thrombin expression by phorbol ester–treated THP–1 cells. Giuntoli DL, et al. **Exp Mol Pathol** 1997 Feb;64(1):53–62

Sensitivity of a hamster lung cell line to direct and indirect acting carcinogens. Hilger I, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):532–4

Induction of a wide range of C(2–12) aldehydes and C(7–12) acyloins in the kidney of Wistar rats after treatment with a renal carcinogen, ferric nitrilotriacetate. Toyokuni S, et al. **Free Radic Biol Med** 1997;22(6):1019–27

The in vivo effect of the tumor promoter 12–O–tetradecanoylphorbol–13–acetate on N–methyl–N–nitrosourea–induced apoptosis in mouse hair follicles. Hai H, et al. **Fundam Appl Toxicol** 1997 Feb; 35(2):177–81

Prostaglandin production and ovulation during exposure of amphibian ovarian follicles to gonadotropin or phorbol ester in vitro. Chang KJ, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):257–66

Dietary heterocyclic amines as potential human carcinogens: experimental data from nonhuman primates. Thorgeirsson UP, et al. **In Vivo** 1996 Mar–Apr;10(2):145–52

Lack of carcinogenesis superfluous by the back mushroom Agaricus bisporus in mice: different feeding regimen. Toth B, et al. **In Vivo** 1997 May–Jun;11(3):227–31

Elevation in diacylglycerol level and activation of protein kinase C in liver of mice administered with carcinogenic dose of 1,2–dimethylhydrazine. Sharma KK, et al. **Indian J Exp Biol** 1995 Jan;33(1):51–3

Benzoyl peroxide modulates gene expression by epigenetic mechanism in mouse epidermal JB6 cells. Singh N, et al. **Indian J Exp Biol** 1996 Jul;34(7):647–51

Nicotine does not modulate IL–4 and interferon–gamma release from peripheral blood mononuclear cells and T cell clones activated by phorbol myristate acetate and calcium ionophore. Le Cam L, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):372–5

Oxidative stress mediates monocrotaline–induced alterations in tenascin expression in pulmonary artery endothelial cells. Aziz SM, et al. **Int J Biochem Cell Biol** 1997 May; 29(5):775–87

Possible involvement of protein kinase C–epsilon in phorbol ester–induced growth inhibition of human lymphoblastic cells. Mihalik R, et al. **Int J Biochem Cell Biol** 1996 Aug; 28(8):925–33

Alteration of intercellular communication in a human urothelial carcinoma cell–line by tumor–promoting agents. Morimoto S. **Int J Urol** 1996 May;3(3):212–7

Cultured rat mesothelial cells generate hydrogen peroxide: a new player in peritoneal defense? Shostak A, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2371–8

Glutathione and related enzymes in rat liver treated with methyl nitrosourea. Cengiz M, et al. **J Basic Clin Physiol Pharmacol** 1996;7(4):341–5

Lead nitrate inhibits the induction of CYP1A mRNAs by aromatic amines but not by aryl hydrocarbons in the rat liver. Degawa M, et al. **J Biochem (Tokyo)** 1996 Sep; 120(3):547–51

Induction of cyclooxygenase–2 expression by peroxisome proliferators and non–tetradecanoylphorbol 12,13–myristate–type tumor promoters in immortalized mouse liver cells. Ledwith BJ, et al. **J Biol Chem** 1997 Feb 7;272(6):3707–14

Transcriptional regulation by triiodothyronine of the UDP–glucuronosyltransferase family 1 gene complex in rat liver. Comparison with induction by 3–methylcholanthrene. Masmoudi T, et al. **J Biol Chem** 1997 Jul 4;272(27):17171–5

Peroxisome proliferators activate extracellular signal–regulated kinases in immortalized mouse liver cells. Rokos CL, et al. **J Biol Chem** 1997 May 16;272(20):13452–7

Expression of the tumor necrosis factor alpha gene and early response genes by nodularin, a liver tumor promoter, in primary cultured rat hepatocytes. Sueoka E, et al. **J Cancer Res Clin Oncol** 1997;123(8):413–9

Calphostin C induces tyrosine dephosphorylation/inactivation of protein kinase FA/GSK–3 alpha in a pathway independent of tumor promoter phorbol ester–mediated down–regulation of protein kinase C. Lee SC, et al. **J Cell Biochem** 1996 Jan; 60(1):121–9

Different size limitations for increased transepithelial paracellular solute flux across phorbol ester and tumor necrosis factor–treated epithelial cell sheets. Mullin JM, et al. **J Cell Physiol** 1997 May;171(2):226–33

Presence of a novel hamster oral papillomavirus in dysplastic lesions of hamster lingual mucosa induced by application of dimethylbenzanthracene and excisional wounding: molecular cloning and complete nucleotide sequence. Iwasaki T, et al. **J Gen Virol** 1997 May;78 (Pt 5):1087–93

Phorbol myristate acetate stimulates the dimerization of CD44 involving a cysteine in the transmembrane domain. Liu D, et al. **J Immunol** 1997 Sep 15;159(6):2702–11

Dexamethasone potently enhances phorbol ester–induced IL–1beta gene expression and nuclear factor NF–kappaB activation. Wang Y, et al. **J Immunol** 1997 Jul 15; 159(2):534–7

Analysis of the ability of 12–O–tetradecanoylphorbol–13–acetate to induce epidermal hyperplasia, transforming growth factor–alpha, and skin tumor promotion in wa–1 mice. Kiguchi K, et al. **J Invest Dermatol** 1997 May;108(5):784–91

Immunolocalization of lacrimal gland PKC isoforms. Effect of phorbol esters and cholinergic agonists on their cellular distribution. Zoukhri D, et al. **J Membr Biol** 1997 May 15;157(2):169–75

Intermediate filament proteins in TPA–treated skeletal muscle cells in culture. Mermelstein C dos S, et al. **J Muscle Res Cell Motil** 1996 Apr;17(2):199–206

Computer–assisted microscope characterization of BCNU–induced modifications in the collective behavior of 12 human brain cancer cell lines. Camby I, et al. **J Neurooncol** 1996 Apr;28(1):1–11

Properties of ryanodine receptors in cultured cerebellar granule neurons: effects of hexachlorocyclohexane isomers and calcium. Rosa R, et al. **J Neurosci Res** 1997 Jan 1; 47(1):27–33

Diet and carcinogen alter the fecal microbial populations of rats. Maciorowski KG, et al. **J Nutr** 1997 Mar; 127(3):449–57

Commentary on "hydroxypropyl cyclodextrins: potential synergism with carcinogens" [letter; comment] Nash RA. **J Pharm Sci** 1996 Jul;85(7):789–90. Comment on: J Pharm Sci 1996 Jan;85(1):96–100.

Inverse regulation of oestrogen receptor and epidermal growth factor receptor gene expression in MCF–7 breast cancer cells treated with phorbol ester. Lee CS, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):267–75

Carcinogen–induced de novo methylation in c–myc exon I. Okada G, et al. **Jpn J Med Sci Biol** 1996 Oct–Dec; 49(5–6):209–18

Activation of phorbol ester responsive form of protein kinase C zeta in association with Ca(2+)–induced differentiation of primary cultured mouse epidermal cells. Nishikawa K, et al. **Jpn J Pharmacol** 1997 Feb;73(2):171–4

Phosphorylation of cAMP responsive element binding protein after treatment of mesangial cells with high glucose plus TGF beta or PMA. Kreisberg JI, et al. **Kidney Int** 1996 Sep;50(3):805–10

Conjugated linoleic acid modulation of phorbol ester–induced events in murine keratinocytes. Liu KL, et al. **Lipids** 1997 Jul;32(7):725–30

Colcemid alters S phase and other parameters in skin during chronic exposure to benzo(a)pyrene. Miller ML, et al. **Microsc Res Tech** 1996 Nov 1;35(4):307–13

Induction of HSP70 gene expression by modulation of Ca(+2) ion and cellular p53 protein by curcumin in colorectal carcinoma cells. Chen YC, et al. **Mol Carcinog** 1996 Dec;17(4):224–34

DDT mimicks estradiol stimulation of breast cancer cells to enter the cell cycle. Dees C, et al. **Mol Carcinog** 1997 Feb; 18(2):107–14

A dominant negative mutant of jun blocking 12–O–tetradecanoylphorbol–13–acetate–induced invasion in mouse keratinocytes. Dong Z, et al. **Mol Carcinog** 1997 Jul;19(3):204–12

Effect of 12–O–tetradecanoylphorbol–13–acetate on inhibition of expression of keratin 1 mRNA in mouse keratinocytes mimicked by 12(S)–hydroxyeicosatetraenoic acid. Hagerman RA, et al. **Mol Carcinog** 1997 Jul; 19(3):157–64

Multifactor regulation of prostaglandin H synthase–2 in murine keratinocytes. Maldve RE, et al. **Mol Carcinog** 1996 Dec;17(4):207–16

Activation of AP–1 by okadaic acid in mouse keratinocytes associated with hyperphosphorylation of c–jun. Peng J, et al. **Mol Carcinog** 1997 Jan;18(1):37–43

Effect of phorbol 12, 13–dibutyrate on ligand binding, enzyme activity and translocation of protein kinase C isoforms in the alpha T3–1 gonadotrope–derived cell line. Johnson MS, et al. **Mol Cell Biochem** 1996 Dec 6; 165(1):65–75

Phorbol ester regulation of the gonadotropin–releasing hormone (GnRH) gene in GnRH–secreting cell lines: a molecular basis for species differences. Zakaria M, et al.

Mol Endocrinol 1996 Oct;10(10):1282–91

CI solvent yellow 14 shows activity in the bone marrow micronucleus assay in both the rat and mouse. Elliott BM, et al. **Mutagenesis** 1997 Jul;12(4):255–8

The low pH Syrian hamster embryo (SHE) cell transformation assay: a revitalized role in carcinogen prediction. Aardema MJ, et al. **Mutat Res** 1996 Sep 21; 356(1):5–9 (16 ref.)

Induction or suppression of SV40 amplification by genotoxic carcinogens, non-genotoxic carcinogens or tumor promoters. Fahrig R, et al. **Mutat Res** 1996 Sep 23; 356(2):217–24

Comparison of the standard and reduced pH Syrian hamster embryo (SHE) cell in vitro transformation assays in predicting the carcinogenic potential of chemicals. Isfort RJ, et al. **Mutat Res** 1996 Sep 21;356(1):11–63 (262 ref.)

A comprehensive protocol for conducting the Syrian hamster embryo cell transformation assay at pH 6.70. Kerckaert GA, et al. **Mutat Res** 1996 Sep 21;356(1):65–84

The pH 6.7 Syrian hamster embryo cell transformation assay for assessing the carcinogenic potential of chemicals. LeBoeuf RA, et al. **Mutat Res** 1996 Sep 21;356(1):85–127 (105 ref.)

The potential of organ specific toxicity for predicting rodent carcinogenicity. Lee Y, et al. **Mutat Res** 1996 Oct 28; 358(1):37–62

Induction of oh8Gua glycosylase in rat kidneys by potassium bromate (KBrO3), a renal oxidative carcinogen. Lee YS, et al. **Mutat Res** 1996 Dec 2;364(3):227–33

Detection of mutagenicity in Ames test using a metalloporphyrin/oxidant model system for cytochrome P450 [see comments] Okochi E, et al. **Mutat Res** 1997 Jan 3;373(1):99–105. Comment in: Mutat Res 1997 Jul 3;377(2):287, 289.

Relevance of different biological assays in assessing initiating and promoting properties of polycyclic aromatic hydrocarbons with respect to carcinogenic potency. Sjögren M, et al. **Mutat Res** 1996 Oct 28;358(1):97–112

Benzene-, catechol-, hydroquinone- and phenol-induced cell transformation, gene mutations, chromosome aberrations, aneuploidy, sister chromatid exchanges and unscheduled DNA synthesis in Syrian hamster embryo cells. Tsutsui T, et al. **Mutat Res** 1997 Jan 3;373(1):113–23

Role of disrupted gap junctional intercellular communication in detection and characterization of carcinogens. Yamasaki H. **Mutat Res** 1996 Sep;365(1–3):91–105 (107 ref.)

Absence of a synergistic effect between fumonisin B1 and N-nitrosomethylbenzylamine in the induction of oesophageal papillomas in the rat. Wild CP, et al. **Nat Toxins** 1997;5(3):126–31

In vitro and in vivo studies of murine sarcoma cells after prolonged treatment with promoting phorbol ester TPA. Janik P, et al. **Neoplasma** 1997;44(1):25–9

Additive effects of basic fibroblast growth factor and phorbol ester on beta-amyloid precursor protein expression and secretion. Ringheim GE, et al. **Neurochem Int** 1997 Apr-May;30(4–5):475–81

Phorbol ester and forskolin suppress the presynaptic inhibitory action of group-II metabotropic glutamate receptor at rat hippocampal mossy fibre synapse. Kamiya H, et al. **Neuroscience** 1997 Sep;80(1):89–94

The sensitivity of human fibroblasts to N-acetoxy-2-acetylaminofluorene is determined by the extent of transcription-coupled repair, and/or their capability to counteract RNA synthesis inhibition. van Oosterwijk MF, et al. **Nucleic Acids Res** 1996 Dec 1; 24(23):4653–9

Relationship among colonocyte proliferation, differentiation, and apoptosis as a function of diet and carcinogen. Hong MY, et al. **Nutr Cancer** 1997;28(1):20–9

The effect of lactulose on DNA damage induced by DMH in the colon of human flora-associated rats. Rowland IR, et al. **Nutr Cancer** 1996;26(1):37–47

Diet and carcinogen alter luminal butyrate concentration and intracellular pH in isolated rat colonocytes. Zoran DL, et al. **Nutr Cancer** 1997;27(3):222–30

Activation of erbB2 and c-src in phorbol ester-treated mouse epidermis: possible role in mouse skin tumor promotion. Xian W, et al. **Oncogene** 1997 Mar 27;14(12):1435–44

Effect of a tobacco-related nitrosamine on intercellular communication in human urothelial cells: a possible factor in smoking-related bladder carcinogenesis. Lyng FM, et al. **Oncol Res** 1996;8(9):371–8

Hepatocellular regeneration: key to thioacetamide autoprotection. Mangipudy RS, et al. **Pharmacol Toxicol** 1995 Sep;77(3):182–8

Developmental models of brain dysfunctions induced by targeted cellular ablations with methylazoxymethanol. Cattabeni F, et al. **Physiol Rev** 1997 Jan;77(1):199–215 (145 ref.)

Stimulation of phosphatidylcholine turnover by beta-phorbol ester and diacylglycerol in the primordial human placenta: the suggested role of phospholipase D activation. Tóth M. **Placenta** 1997 Jul-Aug;18(5–6):411–9

Induction of cytochrome P4501A isozymes by heterocyclic amines and other food-derived compounds. Kleman MI, et al. **Princess Takamatsu Symp** 1995;23:163–71 (37 ref.)

Carcinogens induce reversion of the mouse pink-eyed unstable mutation. Schiestl RH, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4576–81

Validation issues for the use of transgenic mouse mutation assays in risk assessment. Gorelick NJ. **Prog Clin Biol Res** 1996;395:81–108 (85 ref.)

Induction of frameshift mutations at hotspot sequences by carcinogen adducts. Burnouf D, et al. **Recent Results Cancer Res** 1997;143:1–20 (42 ref.)

Effects of different subchronic treatments with lindane on some brush border enzymes in rat jejunum. Moreno MJ, et al. **Rev Esp Fisiol** 1996 Mar;52(1):37–44

A rat model of pancreatic ductal adenocarcinoma: targeting chemical carcinogens. Rivera JA, et al. **Surgery** 1997 Jul; 122(1):82–90

Arsenite efflux is inhibited by verapamil, cyclosporin A, and GSH-depleting agents in arsenite-resistant Chinese hamster ovary cells. Huang RN, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):17–22

Papillomaviruses and potential copathogens. DiPaolo JA, et al. **Toxicol Lett** 1996 Nov;88(1–3):1–7 (25 ref.)

Promoting effect of monosodium aspartate, but not glycine, on renal pelvis and urinary bladder carcinogenesis in rat induced by N-butyl-N-(4-hydroxybutyl)nitrosamine. Kitamura M, et al. **Toxicol Pathol** 1996 Sep-Oct; 24(5):573–9

Concepts of cell death and application to carcinogenesis. Schulte-Hermann R, et al. **Toxicol Pathol** 1997 Jan-Feb; 25(1):89–93 (36 ref.)

Interstitial stroma and carcinogenesis: ultrastructural observations in the rat bladder treated with N-butyl-N-(4-hydroxybutyl)nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(3):177–81

The effect of aflatoxin B1 on the expression of early response genes and transforming growth factor-alpha in CCl4 induced rat liver injury. Hong SW, et al. **Yonsei Med J** 1997 Jun;38(3):167–77

Dissimilar activation patterns of the carcinogen dimethylhydrazine (DMH) on intracellular polyamine metabolism in various organs. Löser C, et al. **Z Gastroenterol** 1996 Dec;34(12):801–8

[Minisatellite instability induced by okadaic acid] Kaneko S. **Kokubyo Gakkai Zasshi** 1997 Mar;64(1):12–23 (Eng. Abstr.) **(Jpn)**

[Modulation with phorbol myristate acetate and staurosporine of interleukin 2- induced proliferation and nonspecific cytotoxicity of rat lymphocytes] Anisimov AG, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):394–8 **(Rus)**

[The diverse effects of the combined action of cadmium chloride and ionizing radiation on the content of metallothioneins in mouse bone marrow and liver] Koterov AN, et al. **Radiats Biol Radioecol** 1997 Mar-Apr; 37(2):196–201 (Eng. Abstr.) **(Rus)**

[The micronucleus test in human exfoliative cells as a method for studying the action of mutagens/carcinogens] Nersesian AK. **Tsitol Genet** 1996 Sep-Oct;30(5):91–6 (46 ref.) (Eng. Abstr.) **(Rus)**

[Effect of chrysotile-asbestos and zeolites dust on generations of reactive oxygen species by alveolar macrophages and granulocytes] Gusev VA, et al. **Vopr Med Khim** 1997 May-Jun;43(3):148–52 (Eng. Abstr.) **(Rus)**

STANDARDS

U.S. Environmental Protection Agency guidelines for carcinogen risk assessment: past and future. Wiltse J, et al. **Mutat Res** 1996 Sep;365(1–3):3–15 (41 ref.)

THERAPEUTIC USE

Chemicals associated with decreases in the incidence of mononuclear cell leukemia in the Fischer rat [published erratum appears in Toxicol Pathol 1996 Sep-Oct;24(5):618] Elwell MR, et al. **Toxicol Pathol** 1996 Mar-Apr; 24(2):238–45

TOXICITY

Linking the metabolism of hydroquinone to its nephrotoxicity and nephrocarcinogenicity. Lau SS, et al. **Adv Exp Med Biol** 1996;387:267–73

Benzene-induced bone marrow cell depression caused by inhibition of the conversion of pre-interleukins-1alpha and -1beta to active cytokines by hydroquinone, a biological reactive metabolite of benzene. Niculescu R, et al. **Adv Exp Med Biol** 1996;387:329–37 (30 ref.)

Mechanistic studies of benzene toxicity — implications for risk assessment. Smith MT. **Adv Exp Med Biol** 1996; 387:259–66 (47 ref.)

Mechanisms of nitrosamine bioactivation and carcinogenesis. Yang CS, et al. **Adv Exp Med Biol** 1996;387:385–94 (40 ref.)

DES awareness and exposure: the 1994 California Behavioral Risk Factor Survey. Wingard DL, et al. **Am J Prev Med** 1996 Sep-Oct;12(5):437–41

Interaction of carcinogenic metal compounds with deoxyribonucleic acid repair processes. Hartwig A, et al. **Ann Clin Lab Sci** 1996 Jan-Feb;26(1):31–8

Effects of 1,4-phenylenebis(methylene)selenocyanate, phenethyl isothiocyanate, indole-3-carbinol, and d-limonene individually and in combination on the tumorigenicity of the tobacco-specific nitrosamine 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in A/J mouse lung. el-Bayoumy K, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2709–12

Relationship between resonance energy and carcinogenicity of azaarenes. Kerim A, et al. **Anticancer Res** 1997 Mar-Apr; 17(2A):1011–8

Correlations between topological resonance energy of methyl-substituted benz[c]acridines, benzo[a]phenothiazines and chrysenes, and their carcinogenic or antitumor activities. Kurihara T, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2757–65

Effect of tamoxifen on 1,2-dimethylhydrazine-HCl-induced colon carcinogenesis in rats. Ziv Y, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):803–10

Photoinduced toxicity of fluoranthene to seven marine benthic crustaceans. Boese BL, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):389–93

Characterization of the H4IIE rat hepatoma cell bioassay for evaluation of environmental samples containing polynuclear aromatic hydrocarbons (PAHs). Willett KL, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):442–8

Assessment of exposure to inorganic arsenic, a human carcinogen, due to the consumption of seafood. Buchet JP, et al. **Arch Toxicol** 1996;70(11):773–8

The carcinogenicity of diethylstilbestrol: structural evidence for a non-genotoxic mechanism. Cunningham A, et al. **Arch Toxicol** 1996;70(6):356–61

Induction of micronuclei with ochratoxin A in ovine seminal vesicle cell cultures. Degen GH, et al. **Arch Toxicol** 1997; 71(6):365–71

N7-(2-hydroxyethylthioethyl)-guanine: a novel urinary metabolite following exposure to sulphur mustard [letter] Fidder A, et al. **Arch Toxicol** 1996;70(12):854–5

The GST T1 and CYP2E1 genotypes are possible factors causing vinyl chloride induced abnormal liver function. Huang CY, et al. **Arch Toxicol** 1997;71(8):482–8

Hemoglobin and DNA adduct formation in Fischer-344 rats exposed to 2,4- and 2,6-toluene diamine. Wilson PM, et al. **Arch Toxicol** 1996;70(10):591–8

Interactions of TCDD with signal transduction and neoplastic development in c-myc transgenic and TGF-alpha transgenic mice. Schrenk D, et al. **Arch Toxicol Suppl** 1997;19:367–75

Lymphoma induction by heterocyclic amines in E mu-pim-1 transgenic mice. Sørensen IK, et al. **Arch Toxicol Suppl** 1997;19:377–86

6-sulfooxymethylbenzo[a]pyrene is an ultimate electrophilic and carcinogenic form of the intermediary metabolite 6-hydroxymethylbenzo[a]pyrene. Flesher JW, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):554–8

7-Sulfooxymethyl-12-methylbenz[a]anthracene is an exceptionally reactive electrophilic mutagen and ultimate carcinogen. Flesher JW, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):144–8

1-Sulfooxymethylpyrene is an electrophilic mutagen and ultimate carcinogen of 1-methyl- and 1-hydroxymethylpyrene. Horn J, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):105–9

Discordant expression of the cyclin-dependent kinases and cyclins in rat liver following acute administration of the hepatocarcinogen [4-chloro-6-(2,3-xylidino)-2-pyrimidinylthio] acetic acid (WY14,643). Rininger JA, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1749–55

3,4,3',4'-tetrachlorobiphenyl acts as an oestrogen and can promote breast tumour growth. Nesaretnam K, et al. **Biochem Soc Trans** 1996 Aug;24(3):361S

Augmentation by phthalimides of phorbol ester-induced expression of tumor necrosis factor alpha message. Azuma A, et al. **Biol Pharm Bull** 1996 Jul;19(7):1001–3

Modification of the carcinogenic potency of quinoline, a hepatocarcinogen, by fluorine atom substitution: evaluation of carcinogenicity by a medium-term assay. Saeki K, et al. **Biol Pharm Bull** 1997 Jan;20(1):40–3

Calcium-cadmium interaction on sugar absorption across the rabbit jejunum. Mesonero JE, et al. **Biol Trace Elem Res** 1996 Feb;51(2):149–59

Effects of a hepato-protective agent and a hepato-secreting chelator on cadmium-induced nephrotoxicity in Syrian hamsters. Shibasaki T, et al. **Biol Trace Elem Res** 1996 Apr; 52(1):1–9

Fasting/refeeding enhances the development of mammary tumors induced by methylnitrosourea in the rat. Chiara M, et al. **Boll Soc Ital Biol Sper** 1996 Jul-Aug;72(7–8):211–6

Heterocyclic amines: evaluation of their role in diet associated human cancer. Gooderham NJ, et al. **Br J Clin Pharmacol** 1996 Jul;42(1):91–8 (56 ref.)

Morphological changes in the basement membrane during progression from non-invasive to invasive rat bladder cancer induced by N-butyl-N-(4-hydoxybutyl) nitrosamine. Zhang XH, et al. **Br J Urol** 1997 Mar; 79(3):378–82

Effects of dehydroepiandrosterone and other sex steroid hormones on mammary carcinogenesis by direct injection of 7,12-dimethylbenz(a) anthracene (DMBA) in hyperprolactinemic female rats. Kohama T, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):105–15

Cadmium-induced changes in the histology of kidneys in common carp, Cyprinus carpio (Cyprinidae). Singhal RN, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):456–62

Parathyroid hormone versus phorbol ester stimulation of activator protein-1 gene family members in rat osteosarcoma cells. Koe RC, et al. **Calcif Tissue Int** 1997 Jul;61(1):52–8

The 1995 Pharmacological Society of Canada Merck Frosst Award. Cellular and molecular targets in pulmonary chemical carcinogenesis: studies with aflatoxin B1. Massey TE. **Can J Physiol Pharmacol** 1996 Jun;74(6):621–8 (58 ref.)

p53 mutations in head and neck squamous cell carcinomas

from Sudanese snuff (toombak) users. Lazarus P, et al. **Cancer Detect Prev** 1996;20(4):270–8

Further development of a multifactor potency scheme for chemical carcinogens. Nesnow S. **Cancer Detect Prev** 1995; 19(6):465–71

Mutagenic potential of peripheral blood leukocytes: in vivo exposure to the carcinogen 7,12–dimethylbenz[a]anthracene, and the tumor promoter 12–O–tetradecanoylphorbol acetate followed by in vitro co–culture with AS52 cells. Ariza ME, et al. **Cancer Lett** 1996 Aug 23;106(1):9–16

Chemopreventive effect of chlorophyllin on mutagenicity and cytotoxicity of 6–sulfooxymethylbenzo[a]pyrene. Cho YS, et al. **Cancer Lett** 1996 Oct 22;107(2):223–8

In vitro mutagenicity of the plasmacytomagenic agent pristane (2,6,10,14–tetramethylpentadecane). Felix K, et al. **Cancer Lett** 1997 Feb 26;113(1–2):71–6

Effects of low dose mixtures of four N–nitroso compounds on hepatic foci development in the rat. Futakuchi M, et al. **Cancer Lett** 1996 Sep 10;106(2):263–9

Effects of diet and ethanol treatment on azoxymethane–induced liver and gastrointestinal neoplasia of male rats. Hakkak R, et al. **Cancer Lett** 1996 Oct 22; 107(2):257–64

Mammary carcinogenicity of diol epoxide metabolites of benzo[j]fluoranthene in female CD rats. Hecht SS, et al. **Cancer Lett** 1996 Sep 10;106(2):251–5

Potential preventive effects of Chelidonium majis L. (Papaveraceae) herb extract on glandular stomach tumor development in rats treated with N–methyl–N'–nitro–N nitrosoguanidine (MNNG) and hypertonic sodium chloride. Kim DJ, et al. **Cancer Lett** 1997 Jan 30; 112(2):203–8

A study of tobacco carcinogenesis, LIII: carcinogenicity of N'–nitrosonornicotine (NNN) and 4–(methylnitrosamino)–1–(3–pyridyl)–1–butanone (NNK) in mink (Mustela vison). Koppang N, et al. **Cancer Lett** 1997 Jan 1;111(1–2):167–71

The role of aberrant crypt foci induced by the two heterocyclic amines 2–amino–3–methyl–imidazo[4,5–f]quinoline (IQ) and 2–amino–1–methyl–6–phenyl–imidazo[4,5–b]pyridine (PhIP) in the development of colon cancer in mice. Kristiansen E. **Cancer Lett** 1996 Dec 20;110(1–2):187–92

Pulse treatment with the tumor promoter TPA delays the onset of desensitization response and prolongs the inhibitory effect on gap junctional intercellular communication of a rat liver epithelial cell line WB F–344. Madhukar BV, et al. **Cancer Lett** 1996 Aug 23; 106(1):117–23

Carcinogenicity tests of methyl–n–amylnitrosamine (MNAN) administered to newborn and adult rats and hamsters and adult mice and of 2–oxo–MNAN administered to adult rats. Mirvish SS, et al. **Cancer Lett** 1996 Oct 22;107(2):171–7

Induction of aberrant crypt foci in C57BL/6N mice by 2–amino–9H–pyrido[2,3–b]indole (A alphaC) and 2–amino–3,8–dimethylimidazo[4,5–f]quinoxaline (MeIQx). Okonogi H, et al. **Cancer Lett** 1997 Jan 1;111(1–2):105–9

Mutational specificity of the syn 1,2–dihydrodiol 3,4–epoxide of 5–methylchrysene. Page JE, et al. **Cancer Lett** 1996 Dec 20;110(1–2):249–52

Inhibition of aflatoxin B1–induced initiation of hepatocarcinogenesis in the rat by green tea. Qin G, et al. **Cancer Lett** 1997 Jan 30;112(2):149–54

Protective effect of food additives on aflatoxin–induced mutagenicity and hepatocarcinogenicity. Soni KB, et al. **Cancer Lett** 1997 May 19;115(2):129–33

Inhibition by amiloride of experimental carcinogenesis induced by azaserine in rat pancreas. Tatsuta M, et al. **Cancer Lett** 1996 Aug 23;106(1):23–8

Chloroform–induced cytotoxicity and regenerative cell proliferation in the kidneys and liver of BDF1 mice. Templin MV, et al. **Cancer Lett** 1996 Nov 29;108(2):225–31

Expression of structure–specific recognition protein mRNA in fetal kidney and Fe–nitrilotriacetate–induced renal carcinoma in the rat. Xiang YY, et al. **Cancer Lett** 1996 Sep 10;106(2):271–8

Oxidative DNA damage and apoptosis induced by benzene metabolites. Hiraku Y, et al. **Cancer Res** 1996 Nov 15; 56(22):5172–8

Alterations in H–ras1 promoter conformation during N–nitroso–N–methylurea–induced mammary carcinogenesis and pregnancy. Jin Z, et al. **Cancer Res** 1996 Nov 1;56(21):4927–35

Sulindac sulfone inhibits azoxymethane–induced colon carcinogenesis in rats without reducing prostaglandin levels. Piazza GA, et al. **Cancer Res** 1997 Jul 15; 57(14):2909–15

Genotoxicity of aflatoxin B1: evidence for a recombination–mediated mechanism in Saccharomyces cerevisiae [published erratum appears in Cancer Res 1997 Feb 15;57(4):793] Sengstag C, et al. **Cancer Res** 1996 Dec 1;56(23):5457–65

The prostate: a target for carcinogenicity of 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine (PhIP) derived from cooked foods. Shirai T, et al. **Cancer Res** 1997 Jan 15;57(2):195–8

Analysis of 7–methylbenz[a]anthracene–DNA adducts formed in SENCAR mouse epidermis by 32P–postlabeling. Baer–Dubowska W, et al. **Carcinogenesis** 1997 Mar; 18(3):523–9

Iron promotes DEN initiated GST–P foci in rat liver. Carthew P, et al. **Carcinogenesis** 1997 Mar;18(3):599–603

Comments on 'DNA–protein crosslinks, a biomarker of exposure to formaldehyde—in vitro and in vivo studies' by Shaham et al [letter] Casanova M, et al. **Carcinogenesis** 1996 Sep;17(9):2097–101

Inhibition of lung tumourigenesis by sulindac: comparison of two experimental protocols. Castonguay A, et al. **Carcinogenesis** 1997 Mar;18(3):491–6

Bifidobacterium longum and lactulose suppress azoxymethane–induced colonic aberrant crypt foci in rats. Challa A, et al. **Carcinogenesis** 1997 Mar;18(3):517–21

Detection of 8–oxo–2'–deoxyguanosine, a marker of oxidative DNA damage, in culture medium from human mesothelial cells exposed to crocidolite asbestos. Chen Q, et al. **Carcinogenesis** 1996 Nov;17(11):2525–7

Methylation status of DNA cytosine during the course of induction of liver cancer in hamsters by hydrazine sulfate. FitzGerald BE, et al. **Carcinogenesis** 1996 Dec; 17(12):2703–9

Cell proliferation and esophageal carcinogenesis in the zinc–deficient rat. Fong LY, et al. **Carcinogenesis** 1996 Sep; 17(9):1841–8

Effects of the carcinogen, acrylonitrile, on forestomach cell proliferation and apoptosis in the rat: comparison with methacrylonitrile. Ghanayem BI, et al. **Carcinogenesis** 1997 Apr;18(4):675–80

Porphyrin–mediated photosensitization has a weak tumor promoting activity in mouse skin: possible role of in situ–generated reactive oxygen species. Giri U, et al. **Carcinogenesis** 1996 Sep;17(9):2023–8

Association of tumor development with increased cellular proliferation and transgene overexpression, but not c–Ha–ras mutations, in v–Ha–ras transgenic Tg.AC mice. Hansen LA, et al. **Carcinogenesis** 1996 Sep;17(9):1825–33

Inhibitory effects of 6–phenylhexyl isothiocyanate on 4–(methylnitrosamino)–1–(3–pyridyl)–1–butanone metabolic activation and lung tumorigenesis in rats. Hecht SS, et al. **Carcinogenesis** 1996 Sep;17(9):2061–7

Effect of cell proliferation on initiation of aflatoxin B1–induced enzyme altered hepatic foci in rats and hamsters. Hiruma S, et al. **Carcinogenesis** 1996 Nov; 17(11):2495–9

Inhibitory effects of topical application of low doses of curcumin on 12–O–tetradecanoylphorbol–13–acetate–induced tumor promotion and oxidized DNA bases in mouse epidermis. Huang MT, et al. **Carcinogenesis** 1997 Jan;18(1):83–8

Chemoprevention of radiation–induced mammary tumors in rats by bezafibrate administered together with diethylstilbestrol as a promoter. Inano H, et al. **Carcinogenesis** 1996 Dec;17(12):2641–6

Long crocidolite asbestos fibers cause polyploidy by sterically blocking cytokinesis. Jensen CG, et al. **Carcinogenesis** 1996 Sep;17(9):2013–21

TGF–alpha sustains clonal expansion by promoter–dependent, chemically initiated rat hepatocytes. Kaufmann WK, et al. **Carcinogenesis** 1997 Jul;18(7):1381–7

Iron–induced apoptosis in mouse renal proximal tubules after an injection of a renal carcinogen, iron–nitrilotriacetate. Kawabata T, et al. **Carcinogenesis** 1997 Jul;18(7):1389–94

Ki–ras mutations are an early event and correlate with tumor stage in transplacentally–induced murine lung tumors. Leone–Kabler S, et al. **Carcinogenesis** 1997 Jun; 18(6):1163–8

Methyl tertiary butyl ether lacks tumor–promoting activity in N–nitrosodiethylamine–initiated B6C3F1 female mouse liver. Moser GJ, et al. **Carcinogenesis** 1996 Dec; 17(12):2753–61

Decreased hepatocyte growth factor level by Wy–14,643, non–genotoxic hepatocarcinogen in F–344 rats. Motoki Y, et al. **Carcinogenesis** 1997 Jul;18(7):1303–9

Cx32 gene mutation in a chemically induced rat liver tumour. Omori Y, et al. **Carcinogenesis** 1996 Sep;17(9):2077–80

Asbestos promotes morphological transformation and elevates expression of a gene family invariably induced by tumor promoters in C3H/10T1/2 cells. Parfett CL, et al. **Carcinogenesis** 1996 Dec;17(12):2719–26

Chemical carcinogens and antigens contribute to cutaneous tumor promotion by depleting epidermal Langerhans cells. Qu M, et al. **Carcinogenesis** 1997 Jun;18(6):1277–9

Susceptibility of 129/SvEv mice in two–stage carcinogenesis protocols to 12–O–tetradecanoylphorbol–13–acetate promotion. Reiners JJ Jr, et al. **Carcinogenesis** 1997 Mar; 18(3):593–7

Absence of mutations in the p53 tumor suppressor gene in woodchuck hepatocellular carcinomas associated with hepadnavirus infection and intake of aflatoxin B1. Rivkina M, et al. **Carcinogenesis** 1996 Dec;17(12):2689–94

Gene expression and cellular sources of inducible nitric oxide synthase during tumor promotion. Robertson FM, et al. **Carcinogenesis** 1996 Sep;17(9):2053–9

Estrogen–nucleic acid adducts: guanine is major site for interaction between 3,4–estrone quinone and COIII gene. Roy D, et al. **Carcinogenesis** 1997 Jun;18(6):1247–9

Genetics of chemical carcinogenesis—III. Tissue–specificity of the genes controlling susceptibility and resistance to skin carcinogenesis in the mouse. Saran A, et al. **Carcinogenesis** 1996 Nov;17(11):2463–8

Short–term carcinogenicity testing of 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine (PhIP) and 2–amino–3–methylimidazo[4,5–f]quinoline (IQ) in E(mu)–pim–1 transgenic mice. Sørensen IK, et al. **Carcinogenesis** 1996 Oct;17(10):2221–7

Suppression of azoxymethane–induced rat colon carcinoma development by a fish oil component, docosahexaenoic acid (DHA). Takahashi M, et al. **Carcinogenesis** 1997 Jul; 18(7):1337–42

Modulation of N–methyl–N–amylnitrosamine–induced rat oesophageal tumourigenesis by dietary feeding of diosmin and hesperidin, both alone and in combination. Tanaka T, et al. **Carcinogenesis** 1997 Apr;18(4):761–9

Chemopreventive agents–induced regression of azoxymethane–induced aberrant crypt foci with the recovery of hexosaminidase activity. Tao L, et al. **Carcinogenesis** 1997 Jul;18(7):1415–8

Decreased connexin32 and a characteristic enzyme phenotype in clofibrate–induced preneoplastic lesions not shared with spontaneously occurring lesions in the rat liver. Tsuda H, et al. **Carcinogenesis** 1996 Nov;17(11):2441–8

Intensity of multigenerational carcinogenesis from diethylstilbestrol in mice. Walker BE, et al. **Carcinogenesis** 1997 Apr;18(4):791–3

Promoting effects of dimethylarsinic acid on N–butyl–N–(4–hydroxybutyl)nitrosamine–induced urinary bladder carcinogenesis in rats. Wanibuchi H, et al. **Carcinogenesis** 1996 Nov;17(11):2435–9

Increased 8–hydroxyguanine levels in DNA and its repair activity in rat kidney after administration of a renal carcinogen, ferric nitrilotriacetate. Yamaguchi R, et al. **Carcinogenesis** 1996 Nov;17(11):2419–22

Rapid induction of more malignant tumors by various genotoxic carcinogens in transgenic mice harboring a human prototype c–Ha–ras gene than in control non–transgenic mice. Yamamoto S, et al. **Carcinogenesis** 1996 Nov;17(11):2455–61

Changes in methyl–sensitive restriction sites of liver DNA from hamsters chronically exposed to hydrazine sulfate. Zheng H, et al. **Carcinogenesis** 1996 Dec;17(12):2711–7

Lack of evidence for the involvement of formaldehyde in the hepatocarcinogenicity of methyl tertiary–butyl ether in CD–1 mice. Casanova M, et al. **Chem Biol Interact** 1997 Jul 11;105(2):131–43

Impairment of respiration and oxidative phosphorylation by redox cyclers 2–nitrosofluorene and menadione. Klöhn PC, et al. **Chem Biol Interact** 1997 Aug 29;106(1):15–28

Relationship between the 13C–NMR chemical shift and the carcinogenic activity of benz[a]anthracenes. Sakamoto Y, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):424–8

Expanded analysis of benzo[a]pyrene–DNA adducts formed in vitro and in mouse skin: their significance in tumor initiation. Chen L, et al. **Chem Res Toxicol** 1996 Jul–Aug; 9(5):897–903

An evaluation of the roles of metabolic denitrosation and alpha–hydroxylation in the hepatotoxicity of N–Nitrosodimethylamine. Lee VM, et al. **Chem Res Toxicol** 1996 Dec;9(8):1319–24

Evidence that nitric oxide enhances cadmium toxicity by displacing the metal from metallothionein. Misra RR, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):326–32

Characterization of sulfur mustard induced structural modifications in human hemoglobin by liquid chromatography—tandem mass spectrometry. Noort D, et al. **Chem Res Toxicol** 1996 Jun;9(4):781–7

Oxidative DNA damage induced by activation of polychlorinated biphenyls (PCBs): implications for PCB–induced oxidative stress in breast cancer. Oakley GG, et al. **Chem Res Toxicol** 1996 Dec;9(8):1285–92

N–Nitrosobenzylmethylamine is activated to a DNA benzylating agent in rats. Peterson LA. **Chem Res Toxicol** 1997 Jan;10(1):19–26

Effect of cadmium and selenium on the antioxidant defense system in rat kidneys. Stajn A, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):167–72

The Syrian hamster embryo (SHE) cell transformation system: a biologically relevant in vitro model—with carcinogen predicting capabilities—of in vivo multistage neoplastic transformation. Isfort RJ, et al. **Crit Rev Oncog** 1995;6(3–6):251–60 (88 ref.)

Toxicology and epidemiology of 1,3–butadiene. Himmelstein MW, et al. **Crit Rev Toxicol** 1997 Jan;27(1):1–108 (239 ref.)

A review of the chronic toxicity, carcinogenicity, and possible mechanisms of action of inorganic acid mists in animals. Swenberg JA, et al. **Crit Rev Toxicol** 1997 May; 27(3):253–9 (28 ref.)

Carcinogenesis: basic principles. Couch DB. **Drug Chem Toxicol** 1996 Aug;19(3):133–48 (54 ref.)

Induction of coagulation effects by Wyeth–14,643 in Crl:CD BR rats. Hurtt ME, et al. **Drug Chem Toxicol** 1997 Feb–May;20(1–2):1–10

Biologically based cancer modeling. Luebeck EG, et al. **Drug Chem Toxicol** 1996 Aug;19(3):221–43 (55 ref.)

Evaluation of the developmental toxicity of benzo[alpha]pyrene and 2–acetylaminofluorene using Xenopus: modes of biotransformation. Stover Group. Propst TL, et al. **Drug Chem Toxicol** 1997 Feb–May; 20(1–2):45–61

Cancer risk assessment: historical perspectives, current issues, and future directions. Velazquez SF, et al. **Drug Chem Toxicol** 1996 Aug;19(3):161–85 (106 ref.)

Mitogenic actions of peroxidase proliferators: involvement of protein kinase C and tumor necrosis factor alpha. Bojes HK, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):235–60 (71 ref.)

Use of the lethal body burden in the evaluation of mixture toxicity. van Wezel AP, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):236–41

Effect of dehydroepiandrosterone on bone mass, serum lipids, and dimethylbenz(a)anthracene-induced mammary carcinoma in the rat. Luo S, et al. **Endocrinology** 1997 Aug; 138(8):3387–94

The 2nd NIEHS Predictive-Toxicology Evaluation Experiment: 30 chemical carcinogenicity bioassays. **Environ Health Perspect** 1996 Oct;104 Suppl 5:999–1112

New NTP bioassay results [news] **Environ Health Perspect** 1997 Mar;105(3):282

Benzene '95. Proceedings of an international conference on the toxicity, carcinogenesis, and epidemiology of benzene. Piscataway, New Jersey, June 17–20, 1995. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1121–441

A known human carcinogen [news] **Environ Health Perspect** 1997 Jun;105(6):576–7

Alpha 2 mu-globulin nephropathy in white ravens [letter] [see comments] Ashby J. **Environ Health Perspect** 1996 Dec;104(12):1264–7. Comment in: Environ Health Perspect 1997 Apr;105(4):362–3.

Prediction of rodent carcinogenicity for 30 chemicals. Ashby J. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1101–4

Prediction of rodent carcinogenicity of further 30 chemicals bioassayed by the U.S. National Toxicology Program. Benigni R, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1041–4

The NIEHS Predictive-Toxicology Evaluation Project. Bristol DW, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1001–10

Distinction of mutagenic carcinogens from a mutagenic noncarcinogen in the big blue transgenic mouse [see comments] Cunningham ML, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:683–6. Comment in: Environ Health Perspect 1997 Feb;105(2):163.

Carcinogenic potential of benzene and toluene when evaluated using cyclin-dependent kinase activation and p53-DNA binding. Dees C, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1289–92

Mutagenic carcinogens and noncarcinogens in transgenic mice [letter; comment] Günzel P, et al. **Environ Health Perspect** 1997 Feb;105(2):163. Comment on: Environ Health Perspect 1996 May;104 Suppl 3:683–6.

During development, 17alpha-estradiol is a potent estrogen and carcinogen. Hajek RA, et al. **Environ Health Perspect** 1997 Apr;105 Suppl 3:577–81

Induction of granulocytic differentiation in a mouse model by benzene and hydroquinone. Hazel BA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1257–64

Approaches to chemoprevention of lung cancer based on carcinogens in tobacco smoke. Hecht SS. **Environ Health Perspect** 1997 Jun;105 Suppl 4:955–63 (87 ref.)

Magnesium inhibits nickel-induced genotoxicity and formation of reactive oxygen. Hong YC, et al. **Environ Health Perspect** 1997 Jul;105(7):744–8

Multicomponent criteria for predicting carcinogenicity: dataset of 30 NTP chemicals. Huff J, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1105–12

A RASH analysis of National Toxicology Program data: predictions for 30 compounds to be tested in rodent carcinogenesis experiments. Jones TD, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1017–30

Use of the Syrian hamster embryo cell transformation assay for carcinogenicity prediction of chemicals currently being tested by the National Toxicology Program in rodent bioassays. Kerckaert GA, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1075–84

Prediction of rodent carcinogenicity bioassays from molecular structure using inductive logic programming. King RD, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1031–40

Carcinogenicity predictions for a group of 30 chemicals undergoing rodent cancer bioassays based on rules derived from subchronic organ toxicities. Lee Y, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1059–63

COMPACT and molecular structure in toxicity assessment: a prospective evaluation of 30 chemicals currently being tested for rodent carcinogenicity by the NCI/NTP. Lewis DF, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1011–6

The effect of 60-Hz magnetic fields on co-promotion of chemically induced skin tumors on SENCAR mice: a discussion of three studies. McLean JR, et al. **Environ Health Perspect** 1997 Jan;105(1):94–6

Prediction of rodent carcinogenicity using the DEREK system for 30 chemicals currently being tested by the National Toxicology Program. The DEREK Collaborative Group. Marchant CA. **Environ Health Perspect** 1996 Oct; 104 Suppl 5:1065–73

Prediction of the rodent carcinogenicity of organic compounds from their chemical structures using the FALS method. Moriguchi I, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1051–8

A mechanism-mediated model for carcinogenicity: model content and prediction of the outcome of rodent carcinogenicity bioassays currently being conducted on 25 organic chemicals. Purdy R. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1085–94

The mechanism of benzene-induced leukemia: a hypothesis and speculations on the causes of leukemia. Smith MT. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1219–25 (63 ref.)

Predictions for the outcome of rodent carcinogenicity bioassays: identification of trans-species carcinogens and noncarcinogens. Tennant RW, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1095–100

Increase in the 8-hydroxyguanine repair activity in the rat kidney after the administration of a renal carcinogen, ferric nitrilotriacetate. Yamaguchi R, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:651–3

Anomalous nonidentity between Salmonella genotoxicants and rodent carcinogens: nongenotoxic carcinogens and genotoxic noncarcinogens. Yoshikawa K. **Environ Health Perspect** 1996 Jan;104(1):40–6 (80 ref.)

Prediction of the carcinogenicity of a second group of organic chemicals undergoing carcinogenicity testing. Zhang YP, et al. **Environ Health Perspect** 1996 Oct;104 Suppl 5:1045–50

DNA adduct formation in primary mouse embryo cells induced by 7H-dibenzo[c,g]carbazole and its organ-specific carcinogenic derivatives. Gábelová A, et al. **Environ Mol Mutagen** 1997;30(1):56–64

Exposure of organ cultures from human tracheal epithelium to chemical carcinogens and subsequent long-term co-cultivation with autologous isotopic fibroblasts. Haas I, et al. **Eur Arch Otorhinolaryngol** 1996;253(7):405–10

The ability of two cooked food mutagens to induce aberrant crypt foci in mice. Kristiansen E, et al. **Eur J Cancer Prev** 1997 Feb;6(1):53–7

Mitogen-activated lymphocytes: a good model for characterising lung CYP1A1 inducibility. Jacquet M, et al. **Eur J Epidemiol** 1997 Feb;13(2):177–83

The effects of benzene and other leukaemogenic agents on haematopoietic stem and progenitor cell differentiation. Irons RD, et al. **Eur J Haematol Suppl** 1996;60:119–24 (40 ref.)

Differentiating agents modulate topoisomerase I activity in U-937 promonocytic cells. Shayo CC, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):129–33

Differential diagnosis of malignant tumours in the abdominal cavity of rats after intraperitoneal injection of crocidolite or benzo[a]pyrene. Friemann J, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):13–7

Significance of cell type specific formation and elimination of DNA-adducts in respiratory tissues of hamster and rat induced by alkylating chemical carcinogens. Seiler F, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):544–7

Cytogenetic results from a chronic feeding study of MeIQx in mice. Breneman JW, et al. **Food Chem Toxicol** 1996 Aug; 34(8):717–24

Enhancement of hepatocarcinogenesis by combined administration of food-derived heterocyclic amines at low doses in the rat. Hasegawa R, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1097–101

Potential carcinogenicity of foundry fumes: a comparative in vivo–in vitro study. Humfrey CD, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1103–11

Effects of pesticide mixtures at the acceptable daily intake levels on rat carcinogenesis. Ito N, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1091–6

Toxic equivalence factors, problems and limitations. Neumann HG. **Food Chem Toxicol** 1996 Nov–Dec; 34(11–12):1045–51 (29 ref.)

Carcinogenicity study of beta-cyclodextrin in F344 rats. Toyoda K, et al. **Food Chem Toxicol** 1997 Mar–Apr; 35(3–4):331–6

Some current approaches for studying combination toxicology in chemical mixtures. Yang RS. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1037–44 (56 ref.)

Iron-induced carcinogenesis: the role of redox regulation. Toyokuni S. **Free Radic Biol Med** 1996;20(4):553–66 (178 ref.)

Oncogenicity testing of 2-ethylhexanol in Fischer 344 rats and B6C3F1 mice. Astill BD, et al. **Fundam Appl Toxicol** 1996 May;31(1):29–41

A transplacental carcinogenicity bioassay in CD-1 mice with zidovudine. Ayers KM, et al. **Fundam Appl Toxicol** 1997 Aug;38(2):195–8

Isopropanol vapor inhalation oncogenicity study in Fischer 344 rats and CD-1 mice. Burleigh-Flayer H, et al. **Fundam Appl Toxicol** 1997 Apr;36(2):95–111

Inflammatory response of mouse skin exposed to the very potent carcinogen dibenzo[a,l]pyrene: a model for tumor promotion. Casale GP, et al. **Fundam Appl Toxicol** 1997 Mar;36(1):71–8

Carcinogenicity of the anticancer topoisomerase inhibitor, amsacrine, in Wistar rats. Graziano MJ, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):53–65

Use of the Syrian hamster embryo cell transformation assay for determining the carcinogenic potential of heavy metal compounds. Kerckaert GA, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):67–72

Oxidative stress in the splenotoxicity of aniline. Khan MF, et al. **Fundam Appl Toxicol** 1997 Jan;35(1):22–30

Mesothelial cell proliferation and biopersistence of wollastonite and crocidolite asbestos fibers. Macdonald JL, et al. **Fundam Appl Toxicol** 1997 Aug;38(2):173–83

Comparative short-term effects of methyl tertiary butyl ether and unleaded gasoline vapor in female B6C3F1 mice. Moser GJ, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):173–83

Comparison of the enhancing effects of dehydroepiandrosterone with the structural analog 16 alpha-fluoro-5-androsten-17-one on aflatoxin B1 hepatocarcinogenesis in rainbow trout. Orner GA, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):132–40

Carcinogenic activity of dichloroacetic acid and trichloroacetic acid in the liver of female B6C3F1 mice. Pereira MA. **Fundam Appl Toxicol** 1996 Jun;31(2):192–9

Chloroform in drinking water prevents hepatic cell proliferation induced by chloroform administered by gavage in corn oil to mice. Pereira MA, et al. **Fundam Appl Toxicol** 1997 May;37(1):82–7

A 90-day chloroform inhalation study in F-344 rats: profile of toxicity and relevance to cancer studies. Templin MV, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):109–25

Two-dimensional electrophoretic analysis of compartment-specific hepatic protein charge modification induced by thioacetamide exposure in rats. Witzmann FA, et al. **Fundam Appl Toxicol** 1996 May;31(1):124–32

A dominant negative effect of eth-1r, a mutant allele of the Neurospora crassa S-adenosylmethionine synthetase-encoding gene conferring resistance to the methionine toxic analogue ethionine. Barra JL, et al. **Genetics** 1996 Dec;144(4):1455–62

Evaluation of the potential carcinogenicity and genetic toxicity to humans of the herbicide acetochlor [see comments] Ashby J, et al. **Hum Exp Toxicol** 1996 Sep; 15(9):702–35. Comment in: Hum Exp Toxicol 1997 Apr;16(4):186–7. Comment in: Hum Exp Toxicol 1997 Apr;16(4):188. Comment in: Hum Exp Toxicol 1997 Apr;16(4):189.

The linearized multistage model and the future of quantitative risk assessment. Crump KS. **Hum Exp Toxicol** 1996 Oct; 15(10):787–98 (50 ref.)

Commentary on the publication: Evaluation of the potential carcinogenicity and genetic toxicity to humans of the herbicide acetochlor [comment] Dirheimer G. **Hum Exp Toxicol** 1997 Apr;16(4):188. Comment on: Hum Exp Toxicol 1996 Sep;15(9):702–35.

Acute or grave accentuation. Farmer P. **Hum Exp Toxicol** 1996 Dec;15(12):984–5 (5 ref.)

The effect of sulphur mustard on glutathione levels in rat lung slices and the influence of treatment with arylthiols and cysteine esters. Langford AM, et al. **Hum Exp Toxicol** 1996 Aug;15(8):619–24

The preclinical toxicological evaluation of sumatriptan. Owen K, et al. **Hum Exp Toxicol** 1995 Dec;14(12):959–73

TUNEL--morituri te salutant. Quantitative in situ image analysis of apoptosis in well and poorly differentiated tumors from rat liver. Roberts RA. **Hum Exp Toxicol** 1996 May;15(5):457–8

Benzene metabolites enhance reactive oxygen species generation in HL60 human leukemia cells. Shen Y, et al. **Hum Exp Toxicol** 1996 May;15(5):422–7

DNA strand breaks and poly (ADP-ribose) polymerase activation induced by crystalline nickel subsulfide in MRC-5 lung fibroblast cells. Zhuang ZX, et al. **Hum Exp Toxicol** 1996 Nov;15(11):891–7

Consensus report. International Agency for Research on Cancer. Mechanisms of fibre carcinogenesis. **IARC Sci Publ** 1996;(140):1–9 (2 ref.)

Regulation of glutathione S-transferases and aldehyde reductase by chemoprotectors: studies of mechanisms responsible for inducible resistance to aflatoxin B1. Hayes JD, et al. **IARC Sci Publ** 1996;(139):175–87 (75 ref.)

Variation in the response of T cells to concanavalin A after in vitro exposure to benzo[A]pyrene and 2-aminofluorene. Lee M, et al. **Immunopharmacol Immunotoxicol** 1996 May; 18(2):309–21

In vitro effects of MOCA and dapsone on rat hepatic and splenic immune cells. Kelso JM, et al. **Immunopharmacology** 1997 Jan;35(3):183–93

Tumorigenesis of rat mammary epithelial cells by N-nitroso-N-methylurea in an in vitro system: characterization of the microtumors. Laduca JR, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr;32(4):204–10

Primary human and rat hepatocytes in genotoxicity assessment. Martelli A. **In Vivo** 1997 Mar–Apr;11(2):189–93

Effect of different vitamin A status on carcinogen-induced DNA damage and repair enzymes in rats. Webster RP, et al. **In Vivo** 1996 Jan–Feb;10(1):113–8

Insights into the mechanism of action of benzoyl peroxide as a tumor promoter. Rudra N, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):109–15

Differentiation of respiratory epithelium: the effects of retinoic acid and carcinogens on the expression of mucociliary vs. squamous phenotype. Bhattacharyya SN, et al. **Inflammation** 1997 Apr;21(2):133–43

The use of toxicologic data in mechanistic risk assessment: 1,3-butadiene as a case study. Bond JA, et al. **Int Arch Occup Environ Health** 1996;68(6):415–20 (34 ref.)

WT1 contributes to leukemogenesis: expression patterns in 7,12-dimethylbenz[a]anthracene (DMBA)-induced leukemia. Osaka M, et al. **Int J Cancer** 1997 Aug 7; 72(4):696–9

Enhancement by ethyl alcohol of experimental hepatocarcinogenesis induced by N-nitrosomorpholine. Tatsuta M, et al. **Int J Cancer** 1997 Jun 11;71(6):1045–8

Short-term and subchronic repeated exposure studies with 5-ethylidene-2-norbornene vapor in the rat. Ballantyne B, et al. **J Appl Toxicol** 1997 Jul–Aug;17(4):197–210

Comparative acute toxicity and primary irritancy of the ethylidene and vinyl isomers of norbornene. Ballantyne B,

et al. **J Appl Toxicol** 1997 Jul-Aug;17(4):211-21
Oncogenicity studies of inhaled methyl tertiary-butyl ether (MTBE) in CD-1 mice and F-344 rats. Bird MG, et al. **J Appl Toxicol** 1997 May;17 Suppl 1:S45-55
Vinylcyclohexene dioxide. Dhillon S, et al. **J Appl Toxicol** 1996 Sep-Oct;16(5):465-8 (34 ref.)
Assessment of the in vivo mutagenic potential of methyl tertiary-butyl ether. McKee RH, et al. **J Appl Toxicol** 1997 May;17 Suppl 1:S31-6
Millimeter wave-induced vibrational modes in DNA as a possible alternative to animal tests to probe for carcinogenic mutations. Woolard DL, et al. **J Appl Toxicol** 1997 Jul-Aug;17(4):243-6
Preliminary characterization of phospholipid adducts formed by [14C]-CHCl3 reactive intermediates in hepatocyte suspensions. Guastadisegni C, et al. **J Biochem Toxicol** 1996;11(1):21-5
Alteration of energy-linked functions in rat hepatic mitochondria following aflatoxin B1 administration. Sajan MP, et al. **J Biochem Toxicol** 1996;11(5):235-41
Carcinogenicity of CoCrMo (F-75) implants in the rat. Bouchard PR, et al. **J Biomed Mater Res** 1996 Sep; 32(1):37-44
Studies on the mechanisms of tumorigenesis induced by polyetherurethanes in rats: leachable and biodegradable oligomers involving the diphenyl carbamate structure acted as an initiator on the transformation of Balb 3T3 cells. Tsuchiya T, et al. **J Biomed Mater Res** 1996 Jul; 31(3):299-303
Epstein-Barr virus in synergy with tumor-promoter-induced malignant transformation of immortalized human epithelial cells. Li BM, et al. **J Cancer Res Clin Oncol** 1997; 123(8):441-6
Effect of ethanol on esophageal cell proliferation and the development of N-methyl-N'-nitro-N-nitrosoguanidine induced-esophageal carcinoma in shrews. Shikata N, et al. **J Cancer Res Clin Oncol** 1996;122(10):613-8
Development of neural network simulator for structure--activity correlation of molecules (NECO). Prediction of endo/exo substitution of norbornane derivatives and of carcinogenic activity of PAHs from 13C-NMR shifts. Isu Y, et al. **J Chem Inf Comput Sci** 1996 Mar-Apr;36(2):286-93
Comments on fluoxetine in carcinogenicity [letter; comment] Hoffman WP, et al. **J Clin Psychopharmacol** 1996 Aug; 16(4):335-9. Comment on: J Clin Psychopharmacol 1995 Feb;15(1):84-5.
Loss of high-molecular-weight proteins in liver microsomes of rats treated with hepatocarcinogens. Khongwir BS, et al. **J Environ Pathol Toxicol Oncol** 1997;16(1):27-31
Risk assessment of complex mixtures: some considerations on polycyclic aromatic hydrocarbons in urban areas. Zapponi GA, et al. **J Environ Pathol Toxicol Oncol** 1997; 16(2-3):209-14 (29 ref.)
Effect of vitamin E and beta-carotene on DNA strand breakage induced by tobacco-specific nitrosamines and stimulated human phagocytes. Weitberg AB, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):11-4
Laboratory studies on silica induced toxicity and relationship to carcinogenicity. Rabovsky J. **J Expo Anal Environ Epidemiol** 1997 Jul-Sep;7(3):267-78 (51 ref.)
Cytotoxicity and multinucleate giant cell formation in Chinese hamster lung fibroblast caused by crocidolite and chrysotile. Hong YC, et al. **J Korean Med Sci** 1997 Apr; 12(2):99-104
Demyelination induced by protein kinase C-activating tumor promoters in aggregating brain cell cultures. Pouly S, et al. **J Neurosci Res** 1997 Jul 15;49(2):121-32
Food restriction reduces aflatoxin B1 (AFB1)-DNA adduct formation, AFB1-glutathione conjugation, and DNA damage in AFB1-treated male F344 rats and B6C3F1 mice. Chou MW, et al. **J Nutr** 1997 Feb;127(2):210-7
Administration of anti-asialo GM1 serum increases aberrant crypt foci induced by 1,2-dimethylhydrazine in the large bowel of rats. Ishizuka S, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Dec;42(6):603-8
Accidental intoxication with methylene dianiline p,p'-diaminodiphenylmethane: acute liver damage after presumed ecstasy consumption. Tillmann HL, et al. **J Toxicol Clin Toxicol** 1997;35(1):35-40
In vitro effects of large and small glass fibers on rat alveolar macrophages. Castranova V, et al. **J Toxicol Environ Health** 1996 Nov;49(4):357-69
Comparative assessment of DNA adduct formation, Salmonella mutagenicity, and chromosome aberration assays as short-term tests for DNA damage. Choi MJ, et al. **J Toxicol Environ Health** 1996 Oct 25;49(3):271-84
Comparative toxicity of polychlorinated biphenyls to Japanese quail (Coturnix c. japonica) and American kestrels (Falco sparverius). Elliott JE, et al. **J Toxicol Environ Health** 1997 May;51(1):57-75
In vivo accumulation of iron on crocidolite is associated with decrements in oxidant generation by the fiber. Ghio AJ, et al. **J Toxicol Environ Health** 1997 Feb 7;50(2):125-42
Enhancing effects of phenobarbital and 3-methylcholanthrene on GST-P-positive liver cell foci development in a new medium-term rat liver bioassay using D-galactosamine. Kim HC, et al. **J Toxicol Environ Health** 1997 Apr 11;50(5):519-28
Oxidation of erythrocyte protein and lipid, and hemolysis in rabbit red blood cells treated with benzo[a]pyrene or adriamycin. Lee SK, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):557-69
Polycyclic aromatic hydrocarbon-DNA adducts in beluga whales from the Arctic. Mathieu A, et al. **J Toxicol Environ Health** 1997 May;51(1):1-4
Effect of dosing vehicle on the hepatotoxicity of CCl4 and nephrotoxicity of CHCl3 in rats. Raymond P, et al. **J Toxicol Environ Health** 1997 Aug 8;51(5):463-76
Effects of methyl substitutions on benz[a]anthracene derivatives-induced immunosuppression. Saas P, et al. **J Toxicol Environ Health** 1996 Nov;49(4):371-87
Differential carcinogenicity of benzo[a]pyrene in male and female CD-1 mouse lung. Sharma R, et al. **J Toxicol Environ Health** 1997 Sep;52(1):45-62
Effects of glutathione depletion on cadmium-induced metallothionein synthesis, cytotoxicity, and proto-oncogene expression in cultured rat myoblasts. Shimizu M, et al. **J Toxicol Environ Health** 1997 Aug 29; 51(6):609-21
Seventy-eight-week dietary carcinogenicity study of (+/-)-4-diethylamino-1,1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate (NS-21), a novel drug for urinary frequency and incontinence, in mice. Hatch RC, et al. **J Toxicol Sci** 1997 Apr;22 Suppl 1:275-87
Two-year dietary carcinogenicity study of (+/-)-4-diethylamino-1, 1-dimethylbut-2-yn-1-yl 2-cyclohexyl-2-hydroxy-2-phenylacetate monohydrochloride monohydrate (NS-21), a novel drug for urinary frequency and incontinence, in rats. Hatch RC, et al. **J Toxicol Sci** 1997 Apr;22 Suppl 1:289-306
Initiation-promotion model for assessment of carcinogenicity: medium-term liver bioassay in rats for rapid detection of carcinogenic agents. Imaida K, et al. **J Toxicol Sci** 1996 Dec;21(5):483-7 (38 ref.)
Delayed toxicity associated with morphological changes in animal experiments. Imaida K. **J Toxicol Sci** 1996 Feb; 21(1):97-103
Lack of inhibitory effect of benzyl isothiocyanate on 2-amino-1-methyl-6-phenylimidazo [4,5-b]pyridine (PhIP)-induced mammary carcinogenesis in rats. Ino N, et al. **J Toxicol Sci** 1996 Aug;21(3):189-94
Case study of carcinogenicity by initiation-promotion model. Mutai M, et al. **J Toxicol Sci** 1996 Dec;21(5):489-92 (6 ref.)
Testing for carcinogenicity of pharmaceuticals. Usui T, et al. **J Toxicol Sci** 1996 Dec;21(5):475-8 (3 ref.)
Measurement of replicative DNA synthesis (RDS) by a 5-bromo-2'-deoxyuridine (BrdU) labeling technique for detection of hepatocyte proliferation. Miyagawa M, et al. **J Vet Med Sci** 1997 Jan;59(1):45-9
Analysis of synergism in hepatocarcinogenesis based on preneoplastic foci induction by 10 heterocyclic amines in the rat. Hasegawa R, et al. **Jpn J Cancer Res** 1996 Nov; 87(11):1125-33
Dose-dependent induction of mammary carcinomas in female Sprague-Dawley rats with 2-amino-1-methyl-6-phenylimidazol[4,5-b]pyridine. Imaida K, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1116-20
Quantitative trait loci associated with promoting effects of sodium L-ascorbate on two-stage bladder carcinogenesis in rats. Kamoto T, et al. **Jpn J Cancer Res** 1997 Jul; 88(7):633-8
Genetic controls of susceptibility and resistance to 4-nitroquinoline 1-oxide-induced tongue carcinomas in rats. Kitano M, et al. **Jpn J Cancer Res** 1996 Nov; 87(11):1097-101
Strain differences in sensitivity to the promoting effect of sodium L-ascorbate in a two-stage rat urinary bladder carcinogenesis model. Murai T, et al. **Jpn J Cancer Res** 1997 Mar;88(3):245-53
Establishment and characterization of three androgen-independent, metastatic carcinoma cell lines from 3,2'-dimethyl-4-aminobiphenyl-induced prostatic tumors in F344 rats. Nakanishi H, et al. **Jpn J Cancer Res** 1996 Dec;87(12):1218-26
Efficient method for rapid induction of aberrant crypt foci in rats with 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine. Ochiai M, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1029-33
Promoting effect of unilateral nephrectomy on urinary bladder carcinogenesis in rats. Saikawa S, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1121-4
Prevention by 2-mercaptoethane sulfonate and N-acetylcysteine of renal oxidative damage in rats treated with ferric nitrilotriacetate. Umemura T, et al. **Jpn J Cancer Res** 1996 Sep;87(9):882-6
Dose-dependent induction of both pepsinogen-altered pyloric glands and adenocarcinomas in the glandular stomach of C3H mice treated with N-methyl-N-nitrosourea. Yamamoto M, et al. **Jpn J Cancer Res** 1997 Mar;88(3):238-44
Phorbol 12-myristate 13-acetate (PMA)-induced oxyradical production in rheumatoid synovial cells. Tanabe T, et al. **Jpn J Pharmacol** 1997 Apr;73(4):347-51
Of rodents, humankind, and cholesterol. Lindenmayer JM. **Med Health R I** 1996 Apr;79(4):148-50
Eleventh Aspen Cancer Conference: mechanisms of toxicity and carcinogenesis. **Mol Carcinog** 1997 May;19(1):1-7
Accelerated onset of uterine tumors in transgenic mice with aberrant expression of the estrogen receptor after neonatal exposure to diethylstilbestrol. Couse JF, et al. **Mol Carcinog** 1997 Aug;19(4):236-42
Spontaneous liver tumors and benzo[a]pyrene-induced lymphomas in XPA-deficient mice. de Vries A, et al. **Mol Carcinog** 1997 May;19(1):46-53
Potentiation of diethylstilbestrol-induced alterations in the female mouse reproductive tract by transforming growth factor-alpha transgene expression. Gray K, et al. **Mol Carcinog** 1996 Nov;17(3):163-73
Ki-ras and p53 mutations are early and late events, respectively, in urethane-induced pulmonary carcinogenesis in A/J mice. Horio Y, et al. **Mol Carcinog** 1996 Dec;17(4):217-23
Mutation spectra analysis suggests that N-(2-chloroethyl)-N'-cyclohexyl-N-nitrosourea-induced lesions are subject to transcription-coupled repair in Escherichia coli. Iannone R, et al. **Mol Carcinog** 1997 May; 19(1):39-45
Evidence that mirex promotes a unique population of epidermal cells that cannot be distinguished by their mutant Ha-ras genotype. Kim TW, et al. **Mol Carcinog** 1997 Sep; 20(1):115-24
The molecular mechanism of aflatoxin B1-induced liver cancer: is mitotic recombination involved? Sengstag C. **Mol Carcinog** 1997 Jul;19(3):147-52 (22 ref.)
Consistent allelic loss on mouse chromosome 7 distal to tyrosinase in 4-nitroquinoline-1-oxide-induced oral cavity tumors with loss of heterozygosity at Ha-ras-1. Yuan B, et al. **Mol Carcinog** 1997 May;19(1):8-16
Discordant hepatic expression of the cell division control enzyme p34cdc2 kinase, proliferating cell nuclear antigen, p53 tumor suppressor protein, and p21Waf1 cyclin-dependent kinase inhibitory protein after WY14,643 ([4-chloro-6-(2,3-xylidino)-2-pyrimidinylthio]acetic acid) dosing to rats. Ma X, et al. **Mol Pharmacol** 1997 Jan; 51(1):69-78
Sodium phenobarbital-enhanced mutation frequency in the liver DNA of lacZ transgenic mice treated with diethylnitrosamine. Okada N, et al. **Mutagenesis** 1997 May; 12(3):179-84
Tissue distribution of DNA adducts in rats treated by intramammillary injection with dibenzo[a,l]pyrene, 7,12-dimethylbenz[a]anthracene and benzo[a]pyrene. Arif JM, et al. **Mutat Res** 1997 Aug 1;378(1-2):31-9
QSARS of mutagens and carcinogens: two case studies illustrating problems in the construction of models for noncongeneric chemicals. Benigni R, et al. **Mutat Res** 1996 Nov 4;371(1-2):29-46
Role of increased DNA replication in the carcinogenic risk of nonmutagenic chemical carcinogens. Cunningham ML. **Mutat Res** 1996 Sep;365(1-3):59-69 (59 ref.)
Health risks of heterocyclic amines. Felton JS, et al. **Mutat Res** 1997 May 12;376(1-2):37-41 (25 ref.)
Effects of Salmonella assay negative and positive carcinogens on intrachromosomal recombination in G1-arrested yeast cells. Galli A, et al. **Mutat Res** 1996 Oct 1;370(3-4):209-21
DNA methylation, heterochromatin and epigenetic carcinogens. Klein CB, et al. **Mutat Res** 1997 Apr; 386(2):163-80 (161 ref.)
Use of Salmonella typhimurium TA 98, YG 1024 and YG 1021 and deconjugating enzymes for evaluating the mutagenicity from smokers' urine. Kuenemann-Migeot C, et al. **Mutat Res** 1997 May 23;390(3):283-91
Dichotomous relationship between DNA reactivity and the induction of sister chromatid exchanges in vivo and in vitro. Labbauf A, et al. **Mutat Res** 1997 Jun 9;377(1):37-52
Mutagenicity, carcinogenicity and teratogenicity of thallium compounds. Léonard A, et al. **Mutat Res** 1997 Aug; 387(1):47-53 (56 ref.)
Structural and mechanistic bases for the induction of mitotic chromosomal loss and duplication ('malsegregation') in the yeast Saccharomyces cerevisiae: relevance to human carcinogenesis and developmental toxicology. Liu M, et al. **Mutat Res** 1997 Mar 21;374(2):209-31
Evaluation of the rodent micronucleus assay in the screening of IARC carcinogens (groups 1, 2A and 2B) the summary report of the 6th collaborative study by CSGMT/JEMS MMS. Collaborative Study of the Micronucleus Group Test. Mammalian Mutagenicity Study Group [published erratum appears in Mutat Res 1997 Jul 14;391(3):259-67] Morita T, et al. **Mutat Res** 1997 Feb 28;389(1):3-122 (153 ref.)
Detection of rodent liver carcinogen genotoxicity by the alkaline single-cell gel electrophoresis (Comet) assay in multiple mouse organs (liver, lung, spleen, kidney, and bone marrow). Sasaki YF, et al. **Mutat Res** 1997 Jul 14; 391(3):201-14
Methods for predicting carcinogenic hazards: new opportunities coming from recent developments in molecular oncology and SAR studies. Taninghер M, et al. **Mutat Res** 1997 Jun 13;391(1-2):3-32 (204 ref.)
Tea polyphenols as inhibitors of mutagenicity of major classes of carcinogens. Weisburger JH, et al. **Mutat Res** 1996 Nov 4;371(1-2):57-63
Possible carcinogenic potential of dimethylarsinic acid as assessed in rat in vivo models: a review. Yamamoto S, et al. **Mutat Res** 1997 Jun;386(3):353-61 (42 ref.)
Simultaneous occurrence of diarrhetic and paralytic shellfish poisoning toxins in Spanish mussels in 1993. Gago-Martinez A, et al. **Nat Toxins** 1996;4(2):72-9
Mechanism of bracken fern carcinogenesis: evidence for H-ras activation via initial adenine alkylation by ptaquiloside. Prakash AS, et al. **Nat Toxins** 1996;4(5):221-7

Influence of perinatal ochratoxin A exposure on the immune system in mice. Thuvander A, et al. **Nat Toxins** 1996; 4(4):174–80

Polarographic behavior of kojic acid and its derivatives, determination of potential carcinogenicity and correlation of these properties with their other attributes. Vachálková A, et al. **Neoplasma** 1996;43(4):265–9

Polarographic reduction of some triphenylmethane dyes and their potential carcinogenic activity. Vachálková A, et al. **Neoplasma** 1996;43(2):113–7

Functional effects of methylazoxymethanol–induced cerebellar hypoplasia in rats. Ferguson SA, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):529–37

Alterations in DNA and cell membranes in an initiation process of carcinogenesis by N–nitrosourea. Yano K, et al. **Nucleic Acids Symp Ser** 1995;(34):239–40

Lack of tumor–promoting effects of flavonoids: studies on rat liver preneoplastic foci and on in vivo and in vitro gap junctional intercellular communication. Chaumontet C, et al. **Nutr Cancer** 1996;26(3):251–63

Increased expression of c–fos, c–jun and LRF–1 is not required for in vivo priming of hepatocytes by the mitogen TCPOBOP. Columbano A, et al. **Oncogene** 1997 Feb 20; 14(7):857–63

Modulation of (+/–)–anti–BPDE mediated p53 accumulation by inhibitors of protein kinase C and poly(ADP–ribose) polymerase. Venkatachalam S, et al. **Oncogene** 1997 Feb 20;14(7):801–9

Suppression of the acquisition of conditioned avoidance behavior in the rat by 3–methylcholanthrene. Konstandi M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):637–41

The use of mechanistic data in the risk assessments of ten chemicals: an introduction to the chemical–specific reviews. International Expert Panel on Carcinogen Risk Assessment. **Pharmacol Ther** 1996;71(1–2):1–5 (7 ref.)

Formaldehyde mechanistic data and risk assessment: endogenous protection from DNA adduct formation. Conaway CC, et al. **Pharmacol Ther** 1996;71(1–2):29–55 (177 ref.)

2–Acetylaminofluorene mechanistic data and risk assessment: DNA reactivity, enhanced cell proliferation and tumor initiation. Verna L, et al. **Pharmacol Ther** 1996; 71(1–2):83–105 (107 ref.)

N–nitrosodiethylamine mechanistic data and risk assessment: bioactivation, DNA–adduct formation, mutagenicity, and tumor initiation. Verna L, et al. **Pharmacol Ther** 1996; 71(1–2):57–81 (96 ref.)

Vinyl chloride mechanistic data and risk assessment: DNA reactivity and cross–species quantitative risk extrapolation. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):7–28 (135 ref.)

Saccharin mechanistic data and risk assessment: urine composition, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996; 71(1–2):225–52 (172 ref.)

Butylated hydroxyanisole mechanistic data and risk assessment: conditional species–specific cytotoxicity, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):137–51 (101 ref.)

Phenobarbital mechanistic data and risk assessment: enzyme induction, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996; 71(1–2):153–91 (214 ref.)

2,3,7,8–Tetrachlorodibenzo–p–dioxin mechanistic data and risk assessment: gene regulation, cytotoxicity, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):193–223 (167 ref.)

Benzidine mechanistic data and risk assessment: species– and organ–specific metabolic activation. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):107–26 (146 ref.)

d–limonene mechanistic data and risk assessment: absolute species–specific cytotoxicity, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):127–36 (44 ref.)

Chrysotile inhibits glutathione–dependent protection against the onset of lipid peroxidation in rat lung microsomes. Arif JM, et al. **Pharmacol Toxicol** 1996 Oct;79(4):205–10

Effect of a lignan–enriched extract of Schisandra chinensis on aflatoxin B1 and cadmium chloride–induced hepatotoxicity in rats. Ip SP, et al. **Pharmacol Toxicol** 1996 Jun;78(6):413–6

Characterization of 1–hydroxypyrene as a novel marker substrate of 3–methylcholanthrene–inducible phenol UDP–glucuronosyltransferase(s). Luukkanen L, et al. **Pharmacol Toxicol** 1997 Mar;80(3):152–8

Uptake of 7,12–dimethylbenz(a)anthracene and benzo(a)pyrene in melanin–containing tissues. Roberto A, et al. **Pharmacol Toxicol** 1996 Aug;79(2):92–9

Distribution of glutathione S–transferase isoforms in rat liver after induction by beta–naphthoflavone or 3–methylcholanthrene. Sippel H, et al. **Pharmacol Toxicol** 1996 Aug;79(2):80–6

Activation–secretion coupling in 10P2 murine mast cells challenged with IgE–antigen, ionophore A23187, thapsigargin and phorbol ester. Heiman AS, et al. **Pharmacology** 1997 Mar;54(3):153–61

Interrelationship of photocarcinogenicity, photomutagenicity and phototoxicity. Loveday KS. **Photochem Photobiol** 1996 Apr;63(4):369–72 (26 ref.)

Studies on the carcinogenic and myocardial effects of 2–amino–3–methylimidazo [4,5–f] quinoline (IQ) in nonhuman primates. Adamson RH, et al. **Princess Takamatsu Symp** 1995;23:260–7

Laparoscopy as a means of monitoring liver tumor induction in nonhuman primates. Dalgard DW, et al. **Princess Takamatsu Symp** 1995;23:268–73

Heterocyclic amine mutagenicity/carcinogenicity: influence of repair, metabolism, and structure. Felton JS, et al. **Princess Takamatsu Symp** 1995;23:50–8 (25 ref.)

Enhancement of rat liver cell foci development by combined treatment with heterocyclic amines at low doses. Ito N, et al. **Princess Takamatsu Symp** 1995;23:251–9

Carcinogenicity of 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine (PhIP) in rats: dose–response studies. Shirai T, et al. **Princess Takamatsu Symp** 1995;23:232–9

Histopathology of IQ–induced hepatocarcinogenesis in nonhuman primates. Thorgeirsson UP, et al. **Princess Takamatsu Symp** 1995;23:274–80

Genetic alterations in HCA–induced tumors. Ushijima T, et al. **Princess Takamatsu Symp** 1995;23:281–91

Dietary modulation of the carcinogenicity of the heterocyclic amines. Weisburger JH, et al. **Princess Takamatsu Symp** 1995;23:240–50

An intercalation inhibitor altering the target selectivity of DNA damaging agents: synthesis of site–specific aflatoxin B1 adducts in a p53 mutational hotspot. Kobertz WR, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9579–84

Signature p53 mutation at DNA cross–linking sites in 8–methoxypsoralen and ultraviolet A (PUVA)–induced murine skin cancers. Nataraj AJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7961–5

Chronic, topical exposure to benzo[a]pyrene induces relatively high steady–state levels of DNA adducts in target tissues and alters kinetics of adduct loss. Talaska G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7789–93

Genetic separation of tumor growth and hemorrhagic phenotypes in an estrogen–induced tumor. Wendell DL, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8112–6

Mechanisms of DES carcinogenicity: effects of the TGF alpha transgene. Gray K, et al. **Prog Clin Biol Res** 1997; 396:217–31

Genotoxic and chronic toxic effects in the carcinogenicity of aromatic amines. Bitsch A, et al. **Recent Results Cancer Res** 1997;143:209–23

Assessment of the tumor–initiating potential of alpha, beta–unsaturated carbonyl compounds by 32P postlabeling quantification of DNA adducts in vivo. Eder E, et al. **Recent Results Cancer Res** 1997;143:65–75

Poly(ADP–ribosyl)ation and nuclear matrix/intermediate filament proteins in renal carcinogenesis. Vamvakas S, et al. **Recent Results Cancer Res** 1997;143:195–208 (60 ref.)

Two–dimensional polyacrylamide gel electrophoresis of cancer–associated proteins. Wirth PJ, et al. **Recent Results Cancer Res** 1997;143:145–60

Trichloroethylene cancer risk: simplified calculation of PBPK–based MCLs for cytotoxic end points. Bogen KT, et al. **Regul Toxicol Pharmacol** 1997 Feb;25(1):26–42 (121 ref.)

Atmospheric and potable water exposures to methyl tert–butyl ether (MTBE). Brown SL. **Regul Toxicol Pharmacol** 1997 Jun;25(3):256–76

On the oral carcinogenicity of cadmium. Collins JF, et al. **Regul Toxicol Pharmacol** 1996 Jun;23(3):298–9 (7 ref.)

Potential health risks related to carcinogens in the atmospheric environment in India. Gurjar BR, et al. **Regul Toxicol Pharmacol** 1996 Oct;24(2 Pt 1):141–8

Chronic toxicity and carcinogenicity study of erythritol in rats. Lina BA, et al. **Regul Toxicol Pharmacol** 1996 Oct; 24(2 Pt 2):S264–79

The predictive value of animal data in human cancer risk assessment. Meijers JM, et al. **Regul Toxicol Pharmacol** 1997 Apr;25(2):94–102

Thresholds in chemical carcinogenesis. Purchase IF, et al. **Regul Toxicol Pharmacol** 1995 Dec;22(3):199–205

An alternative approach to the analysis of animal carcinogenicity studies. Stallard N, et al. **Regul Toxicol Pharmacol** 1996 Jun;23(3):244–8

Evaluation of alternative methods for establishing safe levels of occupational exposure to vinyl halides. Storm JE, et al. **Regul Toxicol Pharmacol** 1997 Jun;25(3):240–55

The utility of two rodent species in carcinogenic risk assessment of pharmaceuticals in Europe. Van Oosterhout JP, et al. **Regul Toxicol Pharmacol** 1997 Feb;25(1):6–17

Thyroid function and thyroid tumors in toxaphene–treated rats. Waritz RS, et al. **Regul Toxicol Pharmacol** 1996 Oct; 24(2 Pt 1):184–92

Cytotoxicity, zinc protection, and stress protein induction in rat proximal tubule cells exposed to cadmium chloride in primary cell culture. Liu J, et al. **Ren Fail** 1996 Nov; 18(6):867–82

DNA strand breaks in testicular cells from humans and rats following in vitro exposure to 1,2–dibromo–3–chloropropane (DBCP). Bjørge C, et al. **Reprod Toxicol** 1996 Jan–Feb;10(1):51–9

Urinary creatine as a potential marker of testicular damage: effect of vasectomy. Draper RP, et al. **Reprod Toxicol** 1996 Jan–Feb;10(1):79–85

Effect of neonatal exposure to DES in Fas and Bcl–2 expression in the adult mouse vagina and approach to the DES syndrome. Suzuki A, et al. **Reprod Toxicol** 1996 Nov–Dec;10(6):465–70

Temporal alterations of endothelial–vasodilator functions in lung injury induced by monocrotaline. Yamaguchi K, et al. **Respir Physiol** 1997 Jan;107(1):47–58

Plausible upper bounds: are their sums plausible? Cogliano VJ. **Risk Anal** 1997 Feb;17(1):77–84

Comparison of contact site cancer potency across dose routes: case study with epichlorohydrin. Ginsberg GL, et al. **Risk Anal** 1996 Oct;16(5):667–81

On the correlation coefficient between the TD50 and the MTD. Razzaghi M, et al. **Risk Anal** 1996 Feb;16(1):107–13

So carcinogens have thresholds: how do we decide what exposure levels should be considered safe? Wilson JD. **Risk Anal** 1997 Feb;17(1):1–3

Health risk assessment of an industrial site contaminated with polycyclic aromatic hydrocarbons using CalTOX, an environmental fate/exposure model. Loranger S, et al. **SAR QSAR Environ Res** 1997;6(1–2):81–104

MCA sarcomas induced in scid mice are more immunogenic than MCA sarcomas induced in congenic, immunocompetent mice. Engel AM, et al. **Scand J Immunol** 1997 May;45(5):463–70

Levels of chromosomal damage in hepatocytes of wild rats living within the area of a waste disposal plant. Eckl PM, et al. **Sci Total Environ** 1997 Mar 20;196(2):141–9

A new concept for risk assessment of the hazards of non–genotoxic chemicals—electronmicroscopic studies of the cell surface. Evidence for the action of lipophilic chemicals on the Ca2+ signaling system. Gartzke J, et al. **Sci Total Environ** 1997 Jun 20;199(1–2):213–26

Preferential formation of benzo[a]pyrene adducts at lung cancer mutational hotspots in P53. Denissenko MF, et al. **Science** 1996 Oct 18;274(5286):430–2

Exposure to methylene chloride [letter; comment] Norman WC 3rd. **Science** 1996 Oct 18;274(5286):327. Comment on: Science 1996 May 24;272(5265):1083–4.

Analysis of cytogenetic effects and DNA adduct formation induced by safrole in Chinese hamster lung cells. Daimon H, et al. **Teratog Carcinog Mutagen** 1997;17(1):7–18

Absence of promoting potential of bracken fern (Pteridium aquilinum) in rat urinary bladder carcinogenesis induced by N–butyl–N–(4–hydroxybutyl)–nitrosamine and uracil. de Oliveira ML, et al. **Teratog Carcinog Mutagen** 1995; 15(4):191–9

Lack of promoting activity of four pesticides on induction of preneoplastic liver cell foci in rats. Kato T, et al. **Teratog Carcinog Mutagen** 1995;15(5):251–7

1,2–Dimethylhydrazine carcinogenesis in C3HA and CBA female mice prenatally treated with diethylstilbestrol. Turusov VS, et al. **Teratog Carcinog Mutagen** 1997; 17(1):19–28

Cadmium, gene regulation, and cellular signalling in mammalian cells. Beyersmann D, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):247–61 (137 ref.)

Spontaneous p53 mutation in murine mesothelial cells: increased sensitivity to DNA damage induced by asbestos and ionizing radiation. Cistulli CA, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):264–71

Human T cells are highly sensitive to suppression of mitogenesis by polycyclic aromatic hydrocarbons and this effect is differentially reversed by alpha–naphthoflavone. Davila DR, et al. **Toxicol Appl Pharmacol** 1996 Aug; 139(2):333–41

Hepatic ploidy, nuclearity, and distribution of DNA synthesis: a comparison of nongenotoxic hepatocarcinogens with noncarcinogenic liver mitogens. Hasmall SC, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):287–93

Furan–mediated uncoupling of hepatic oxidative phosphorylation in Fischer–344 rats: an early event in cell death. Mugford CA, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):1–11

Ascorbic acid protects guinea pigs from acute aflatoxin toxicity. Netke SP, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):429–35

Mechanisms for the pancreatic oncogenic effects of the peroxisome proliferator Wyeth–14,643. Obourn JD, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):425–36

Carcinogenicity assessment of selected nickel compounds. Oller AR, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):152–66 (120 ref.)

Modulation of N–methyl–N'–nitro–nitrosoguanidine multiorgan carcinogenesis by dehydroepiandrosterone in rainbow trout. Orner GA, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):548–54

Induction of hsp 70 in HepG2 cells in response to hepatotoxicants. Salminen WF Jr, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):117–23

Enhanced expression of bax in small preantral follicles during 4–vinylcyclohexene diepoxide–induced ovotoxicity in the rat. Springer LN, et al. **Toxicol Appl Pharmacol** 1996 Aug; 139(2):402–10

Involvement of apoptosis in 4–vinylcyclohexene diepoxide–induced ovotoxicity in rats. Springer LN, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):394–401

Biological model of ED01 hepatocarcinogenesis. Travis CC, et al. **Toxicol Appl Pharmacol** 1996 Sep;140(1):19–29

Chronic, topical administration of 4–aminobiphenyl induces tissue–specific DNA adducts in mice. Underwood PM, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):325–31

Reduction of benzene metabolism and toxicity in mice that lack CYP2E1 expression. Valentine JL, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):205–13

The effects of continuous testosterone exposure on spontaneous and cadmium–induced tumors in the male Fischer (F344/NCr) rat: loss of testicular response. Waalkes

MP, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):40–6

The Great Lakes: a historical overview. Hicks HE. **Toxicol Ind Health** 1996 May–Aug;12(3–4):303–13 (30 ref.)

Particles, inflammation and respiratory tract carcinogenesis. Borm PJ, et al. **Toxicol Lett** 1996 Nov;88(1–3):109–13 (16 ref.)

Carcinogenicity study of outdoor airborne particulate matter in newborn male NMRI mice. Heussen GA, et al. **Toxicol Lett** 1996 Nov;88(1–3):23–8

Acute hematopoietic toxicity of aniline in rats. Khan MF, et al. **Toxicol Lett** 1997 Jun 16;92(1):31–7

Transport of reactive metabolites of procarcinogens between different liver cell types, as demonstrated by the single cell microgel electrophoresis assay. Kuchenmeister F, et al. **Toxicol Lett** 1996 Nov;88(1–3):29–34

Induction of the rat hepatic cytosolic arylamine oxidase by a series of polychlorinated biphenyls: association with the Ah locus. Marczylo T, et al. **Toxicol Lett** 1997 Jul 21; 92(2):81–91

Metabolic and genotoxic interactions of 2–aminofluorene and 2,4–diaminotoluene. Pan YH, et al. **Toxicol Lett** 1997 Mar 14;91(1):73–82

Alterations in epidermal growth factor binding to hepatic membranes following dietary exposure of rats to known hepatocarcinogens. Ringer DP, et al. **Toxicol Lett** 1997 Mar 14;91(1):7–12

An ultrastructural evaluation of acute 1–nitronaphthalene induced hepatic and pulmonary toxicity in the rat. Sauer JM, et al. **Toxicol Lett** 1997 Jan 15;90(1):19–27

Differential effect of peroxisome proliferators on rat glutathione S–transferase isoenzymes. Voskoboinik I, et al. **Toxicol Lett** 1996 Oct;87(2–3):147–55

Pulmonary effects in rats inhaling size–separated chrysotile asbestos fibres or p–aramid fibrils: differences in cellular proliferative responses. Warheit DB, et al. **Toxicol Lett** 1996 Nov;88(1–3):287–92

Hepatocytes from metallothionein–I and II knock–out mice are sensitive to cadmium– and tert–butylhydroperoxide–induced cytotoxicity. Zheng H, et al. **Toxicol Lett** 1996 Oct;87(2–3):139–45

A critical appraisal of the value of the mouse cancer bioassay in safety assessment. Alden CL, et al. **Toxicol Pathol** 1996 Nov–Dec;24(6):722–5 (18 ref.)

Aberrant crypt foci: new insights into the early events of colon carcinogenesis induced by genotoxic and nongenotoxic carcinogens [editorial] Bertram TA. **Toxicol Pathol** 1996 Nov–Dec;24(6):782–3

Experimental chemical carcinogenesis in fish. Bunton TE. **Toxicol Pathol** 1996 Sep–Oct;24(5):603–18 (217 ref.)

Relationship of hydroquinone–associated rat renal tumors with spontaneous chronic progressive nephropathy. Hard GC, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):132–43

Dose–dependent amplification by L–ascorbic acid of NaHCO3 promotion of rat urinary bladder carcinogenesis. Iwata H, et al. **Toxicol Pathol** 1997 May–Jun;25(3):284–90

Overexpression of cytochrome P–450 isoforms involved in aflatoxin B1 bioactivation in human liver with cirrhosis and hepatitis. Kirby GM, et al. **Toxicol Pathol** 1996 Jul–Aug;24(4):458–67

Promoting effect of monosodium aspartate, but not glycine, on renal pelvis and urinary bladder carcinogenesis in rat induced by N–butyl–N–(4–hydroxybutyl)nitrosamine. Kitamura M, et al. **Toxicol Pathol** 1996 Sep–Oct; 24(5):573–9

Increased nuclear ploidy, not cell proliferation, is sustained in the peroxisome proliferator–treated rat liver. Lalwani ND, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):165–76

Problems in consideration of rodent hepatocarcinogenesis for regulatory purposes. Moch RW, et al. **Toxicol Pathol** 1996 Jan–Feb;24(1):138–45 (28 ref.)

A brief review of formaldehyde carcinogenesis in relation to rat nasal pathology and human health risk assessment. Morgan KT. **Toxicol Pathol** 1997 May–Jun;25(3):291–307 (142 ref.)

Quantitation of multistage carcinogenesis in rat liver. Pitot HC, et al. **Toxicol Pathol** 1996 Jan–Feb;24(1):119–28 (56 ref.)

Food and Drug Administration workshop on indirect mechanisms of carcinogenesis. Poirier LA. **Toxicol Pathol** 1996 Sep–Oct;24(5):659–61

Concepts of cell death and application to carcinogenesis. Schulte–Hermann R, et al. **Toxicol Pathol** 1997 Jan–Feb; 25(1):89–93 (36 ref.)

Biliary proliferation and adaptation in furan–induced rat liver injury and carcinogenesis. Sirica AE. **Toxicol Pathol** 1996 Jan–Feb;24(1):90–9 (52 ref.)

Can so–called nongenotoxic hepatocarcinogens induce mouse liver nodules that are not neoplasms? [editorial] Ward JM. **Toxicol Pathol** 1996 Jul–Aug;24(4):505

Aberrant crypt foci in the colonic mucosa of rats treated with a genotoxic and nongenotoxic colon carcinogen. Whiteley LO, et al. **Toxicol Pathol** 1996 Nov–Dec; 24(6):681–9

Butadiene epidemiology: a summary of results and outstanding issues. Acquavella JF. **Toxicology** 1996 Oct 28;113(1–3):148–56 (30 ref.)

Male–mediated F1 effects in mice exposed to 1,3–butadiene. Anderson D, et al. **Toxicology** 1996 Oct 28;113(1–3):120–7

Butadiene and isoprene: future studies and implications. Bolt HM. **Toxicology** 1996 Oct 28;113(1–3):356–60

Risk assessment of butadiene for the Existing Substances Regulation (ESR) in the European Union. Brooke IM. **Toxicology** 1996 Oct 28;113(1–3):226–30

Reduction of ochratoxin A toxicity by heat–induced epimerization. In vitro effects of ochratoxins on embryonic chick meningeal and other cell cultures. Bruinink A, et al. **Toxicology** 1997 Mar 28;118(2–3):205–10

Review of risk assessments on 1,3–butadiene (1985–1991). Cagen SZ, et al. **Toxicology** 1996 Oct 28;113(1–3):215–20 (17 ref.)

Diaminonaphthalenes and related aminocompounds: mutagenicity, CYP1A induction and interaction with the Ah receptor. Cheung YL, et al. **Toxicology** 1997 Mar 28; 118(2–3):115–27

Review of reproductive and developmental toxicity of 1,3–butadiene. Christian MS. **Toxicology** 1996 Oct 28; 113(1–3):137–43 (26 ref.)

A follow–up study of synthetic rubber workers. Delzell E, et al. **Toxicology** 1996 Oct 28;113(1–3):182–9

Mortality update of butadiene production workers. Divine BJ, et al. **Toxicology** 1996 Oct 28;113(1–3):169–81

Species difference in the ovarian toxicity of 1,3–butadiene epoxides in B6C3F1 mice and Sprague–Dawley rats. Doerr JK, et al. **Toxicology** 1996 Oct 28;113(1–3):128–36

Modulation of cytochrome P450 by 5,5'–bis–trifluoromethyl–2,2'–dichlorobiphenyl, a unique environmental contaminant. Drahushuk AT, et al. **Toxicology** 1997 Jul 11;120(3):197–205

Effects of benzene on splenic, thymic, and femoral lymphocytes in mice. Farris GM, et al. **Toxicology** 1997 Mar 28;118(2–3):137–48

Risk assessment of butadiene in ambient air; the approach used in the UK. Fielder RJ. **Toxicology** 1996 Oct 28; 113(1–3):221–5

Furan–induced liver cell proliferation and apoptosis in female B6C3F1 mice. Fransson–Steen R, et al. **Toxicology** 1997 Mar 28;118(2–3):195–204

Effect of thiols on cadmium–induced expression of metallothionein and other oxidant stress genes in rat lung epithelial cells. Gong Q, et al. **Toxicology** 1997 May 16; 119(3):179–91

Dose–response relationship for rat liver DNA damage caused by 1,2–dimethylhydrazine. Kitchin KT, et al. **Toxicology** 1996 Dec 2;114(2):113–24

Future research needs for non–cancer and cancer effects among populations exposed to 1,3–butadiene. Koppikar AM. **Toxicology** 1996 Oct 28;113(1–3):203–9 (43 ref.)

Molecular modelling of CYP2E1 enzymes from rat, mouse and man: an explanation for species differences in butadiene metabolism and potential carcinogenicity, and rationalization of CYP2E substrate specificity. Lewis DF, et al. **Toxicology** 1997 Mar 28;118(2–3):93–113

Leukemia and cumulative exposure to butadiene, styrene and benzene among workers in the synthetic rubber industry. Macaluso M, et al. **Toxicology** 1996 Oct 28; 113(1–3):190–202

Changes in high molecular weight DNA fragmentation following human blood exposure to styrene–7,8–oxide. Marczynski B, et al. **Toxicology** 1997 Jun 27;120(2):111–7

Urinary taurine as a non–invasive marker of aflatoxin B1–induced hepatotoxicity: success and failure. Maxuitenko YY, et al. **Toxicology** 1997 Mar 28;118(2–3):159–69

Inhalation toxicity and carcinogenicity of isoprene in rats and mice: comparisons with 1,3–butadiene. Melnick RL, et al. **Toxicology** 1996 Oct 28;113(1–3):247–52 (22 ref.)

Lack of correlation between the inducibility of metallothionein mRNA and metallothionein protein in cadmium–exposed rodents. Misra RR, et al. **Toxicology** 1997 Feb 28;117(2–3):99–109

Butadiene inhalation accelerates arteriosclerotic plaque development in cockerels. Penn A, et al. **Toxicology** 1996 Oct 28;113(1–3):351–4

Suppression of Kupffer cell function prevents cadmium induced hepatocellular necrosis in the male Sprague–Dawley rat. Sauer JM, et al. **Toxicology** 1997 Aug 15;121(2):155–64

Modulation of taurine levels in the rat liver alters methylene dianiline hepatotoxicity. Seabra V, et al. **Toxicology** 1997 Oct 19;122(3):193–204

Using PBPK modeling and comprehensive realism methodology for the quantitative cancer risk assessment of butadiene. Sielken RL Jr, et al. **Toxicology** 1996 Oct 28;113(1–3):231–7

Assessment of exposure to butadiene in the process industry. Sorsa M, et al. **Toxicology** 1996 Oct 28;113(1–3):77–83

Mortality study of workers employed in 1,3–butadiene production units identified from a large chemical workers cohort. Ward EM, et al. **Toxicology** 1996 Oct 28; 113(1–3):157–68

Aplysiatoxin and debromoaplysiatoxin as the causative agents of a red alga Gracilaria coronopifolia poisoning in Hawaii. Nagai H, et al. **Toxicon** 1996 Jul;34(7):753–61

A protein phosphatase 2A inhibition assay for a fast and sensitive assessment of okadaic acid contamination in mussels. Tubaro A, et al. **Toxicon** 1996 Jul;34(7):743–52

Localization of zinc and metallothionein in the rat bladder epithelium during carcinogenesis induced by N–butyl–N–(4–hydroxybutyl) nitrosamine. Zhang XH, et al. **Urol Res** 1996;24(5):279–83

Hematological alterations in rats from xylene and benzene. d'Azevedo PA, et al. **Vet Hum Toxicol** 1996 Oct; 38(5):340–4

Immunosuppressant activity of aflatoxin ingestion in rabbits measured by response to Mycobacterium bovis antigen I. Cell mediated immune response measured by skin test reaction. Dimitri RA, et al. **Vet Hum Toxicol** 1996 Oct; 38(5):333–6

Immunomodulative effects of aflatoxins and selenium on human peripheral blood lymphocytes. Methenitou G, et al. **Vet Hum Toxicol** 1996 Aug;38(4):274–7

Genotoxicity studies of quercetin and shikimate in vivo in the bone marrow of mice and gastric mucosal cells of rats. Ngomuo AJ, et al. **Vet Hum Toxicol** 1996 Jun;38(3):176–80

[The genotoxicity and carcinogenic potential of gastrofenzin] Mirkova E. **Eksp Med Morfol** 1994;32(3–4):57–68 (Eng. Abstr.) **(Bul)**

[Effect of n–nitrosodimethylamine (NDMA) on activity of selected enzymes in blood serum of the rat] Roszczenko A, et al. **Med Pr** 1996;47(1):49–53 (Eng. Abstr.) **(Pol)**

[Organ cytotoxicity of selected polycyclic aromatic hydrocarbons in mice] Izdebska–Szymona K, et al. **Rocz Panstw Zakl Hig** 1997;48(1):13–21 (Eng. Abstr.) **(Pol)**

[Induction by benz(a)pyrene of squamous cell metaplasia of the respiratory epithelium in organ cultures: importance of the route of administration of the carcinogen and genetic susceptibility of the animals] Kolesnichenko TS, et al. **Arkh Patol** 1996 Jul–Aug;58(4):56–61 (Eng. Abstr.) **(Rus)**

[The possible carcinogenic action of a protein concentrate from Saccharomyces yeasts grown on molasses] Pliss MB, et al. **Lik Sprava** 1996 Oct–Dec;(10–12):107–11 (Eng. Abstr.) **(Rus)**

[Changes in the state of monooxygenase system and lipid peroxidation under the effects of carcinogenic dust] Kuz'mina LP, et al. **Med Tr Prom Ekol** 1997;(4):15–8 (Eng. Abstr.) **(Rus)**

[Use of micronucleus tests for screening mutagens and carcinogens] Sycheva LP, et al. **Vestn Ross Akad Med Nauk** 1997;(7):14–8 (Eng. Abstr.) **(Rus)**

[Changes in the energy metabolism in the kidneys of white rats in the dynamics of acute sodium nitrate poisoning] Kostenko VO. **Fiziol Zh** 1995 Sep–Dec;41(5–6):91–6 (Eng. Abstr.) **(Ukr)**

CARCINOGENS, ENVIRONMENTAL

Proceedings of an American Chemical Society Symposium on Fumonisins in Food. Anaheim, California, April 2–7, 1995. **Adv Exp Med Biol** 1996;392:1–399

Fumonisins: history, world–wide occurrence and impact. Marasas WF. **Adv Exp Med Biol** 1996;392:1–17 (118 ref.)

Reduction of risks associated with fumonisin contamination in corn. Park DL, et al. **Adv Exp Med Biol** 1996;392:335–44

Mutagenesis in the P53 gene. Pfeifer GP, et al. **Biochim Biophys Acta** 1997 Aug 8;1333(1):M1–8 (55 ref.)

Avoided and avoidable risks of cancer. Tomatis L, et al. **Carcinogenesis** 1997 Jan;18(1):97–105 (91 ref.)

Modulation of DNA binding in vivo by specific humoral immunological response: a novel host factor in environmental carcinogenesis? Verdina A, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:679–82

Fate of fumonisins B1 and B2 in steeped corn kernels. Canela R, et al. **Food Addit Contam** 1996 Jul;13(5):511–7

Radon daughter deposition on surfaces carrying alternating electric fields. Mayya YS, et al. **Int J Radiat Biol** 1997 Jan;71(1):69–74

Cancer risk assessment for crystalline silica. Collins JF, et al. **J Expo Anal Environ Epidemiol** 1997 Jul–Sep; 7(3):359–65

The regulation of crystalline silica: an industry perspective. Elzea JM. **J Expo Anal Environ Epidemiol** 1997 Jul–Sep; 7(3):377–84

Criteria for conducting quantitative risk assessments for silica. Goldsmith DF, et al. **J Expo Anal Environ Epidemiol** 1997 Jul–Sep;7(3):367–75

Epidemiology of human aflatoxin exposures and their relationship to liver cancer. Groopman JD, et al. **Prog Clin Biol Res** 1996;395:211–22

[The carcinogenetic role of environmental exposure to pipe smoke—report from the Hungarian reform era] Kiss L. **Orv Hetil** 1996 Mar 24;137(12):643–4 **(Hun)**

ADVERSE EFFECTS

AACR/IARC meeting on carcinogenesis from environmental pollution: assessment of human risk and strategies for prevention. 6–9 October 1996, Budapest, Hungary. American Association for Cancer Research. International Agency for Research on Cancer. Jones S, et al. **Ann Oncol** 1997 Feb;8(2):137–8

Infectious agents and environmental factors in lymphoid malignancies. Toren A, et al. **Blood Rev** 1996 Jun; 10(2):89–94 (63 ref.)

An investigation of multiple biomarkers among workers exposed to styrene and styrene–7,8–oxide. Rappaport SM, et al. **Cancer Res** 1996 Dec 1;56(23):5410–6

The role of individual susceptibility in cancer burden related to environmental exposure. Bartsch H, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:569–77 (99 ref.)

Role of transcription–coupled DNA repair in susceptibility to environmental carcinogenesis. Hanawalt PC. **Environ Health Perspect** 1996 May;104 Suppl 3:547–51 (40 ref.)

Molecular epidemiology in environmental carcinogenesis.

Perera FP, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:441-3 (14 ref.)
Use of genetic toxicology data in U.S. EPA risk assessment: the mercury study report as an example. Schoeny R. **Environ Health Perspect** 1996 May;104 Suppl 3:663-73
Carcinogenicity of food mutagens. Sugimura T, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:429-33 (48 ref.)
Environmental exposure to N-nitroso compounds (NNOC) and precursors: an overview. Bartsch H, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:11-7 (54 ref.)
Radon and cancer. Bochicchio F. **Eur J Cancer Prev** 1996 Oct;5(5):383-4 (12 ref.)
N-nitroso compounds in cosmetics, household commodities and cutting fluids. Eisenbrand G, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:41-6 (31 ref.)
Cancer risk in the work place, including asbestos. Nicholson WJ. **Eur J Cancer Prev** 1996 Oct;5(5):393-6 (5 ref.)
Environmental exposure to N-nitroso compounds and their precursors. van Maanen JM, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:29-31 (22 ref.)
Water chlorination: essential process or cancer hazard? Bull RJ, et al. **Fundam Appl Toxicol** 1995 Dec;28(2):155-66
Quantification of FISH-painted chromosome aberrations after domestic radon exposure. Bauchinger M, et al. **Int J Radiat Biol** 1996 Dec;70(6):657-63
Environmental pollution and carcinogenic risk. Karaer F. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):105-13 (15 ref.)
Environment, cancer, and molecular epidemiology: air pollution. Moran EM. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):97-104 (81 ref.)
Evidence for silica's neoplastic risk among workers and derivation of cancer risk assessment. Goldsmith DF. **J Expo Anal Environ Epidemiol** 1997 Jul-Sep;7(3):291-301 (46 ref.)
Multistep carcinogenesis of breast cancer and tumour heterogeneity. Beckmann MW, et al. **J Mol Med** 1997 Jun; 75(6):429-39 (150 ref.)
Carcinogenicity of the drinking water mutagen 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone in the rat [see comments] Komulainen H, et al. **J Natl Cancer Inst** 1997 Jun 18;89(12):848-56. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):832-3.
Re: indoor radon exposure and risk of lung cancer: a nested case-control study in Finland [letter; comment] Lagarde F, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):584-5. Comment on: J Natl Cancer Inst 1996 Jul 17;88(14):966-72.
Water chlorination, 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX), and potential cancer risk [editorial; comment] Melnick RL, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):832-3. Comment on: J Natl Cancer Inst 1997 Jun 18;89(12):848-56.
An updated meta-analysis of formaldehyde exposure and upper respiratory tract cancers. Collins JJ, et al. **J Occup Environ Med** 1997 Jul;39(7):639-51
Cancer mortality in a Chinese population exposed to hexavalent chromium in water. Zhang JD, et al. **J Occup Environ Med** 1997 Apr;39(4):315-9
The radiological hazards of plutonium. Barnaby F. **Med Confl Surviv** 1997 Jul-Sep;13(3):195-206; discussion 207-8 (18 ref.)
Unraveling the mysteries of environmental medicine. Moore MP. **Minn Med** 1997 Jan;80(1):12-20
Possible role of indoor environment and coal combustion emission in lung carcinogenesis in Fuyuan County, China. Nakanishi Y, et al. **Neoplasma** 1997;44(1):69-72
No increased DNA damage in peripheral lymphocytes of sewage workers as evaluated by alkaline single cell gel electrophoresis. Friis L, et al. **Occup Environ Med** 1997 Jul;54(7):494-8
Risk of lung cancer among masons in Iceland. Rafnsson V, et al. **Occup Environ Med** 1997 Mar;54(3):184-8
Genotoxicity of environmental agents in human mammary epithelial cells: a trigger for human breast cancer. Eldridge SR, et al. **Prog Clin Biol Res** 1997;396:125-31 (35 ref.)
Radiation and breast cancer risk. Land CE. **Prog Clin Biol Res** 1997;396:115-24 (27 ref.)
Defining etiologic heterogeneity in breast cancer using genetic biomarkers. Rebbeck TR, et al. **Prog Clin Biol Res** 1997;396:53-61 (20 ref.)
Organochlorine exposure and risk for breast cancer. Safe SH, et al. **Prog Clin Biol Res** 1997;396:133-45 (63 ref.)
Radon and breast cancer [letter; comment] Neuberger JS, et al. **Risk Anal** 1996 Dec;16(6):729-30. Comment on: Risk Anal 1996 Feb;16(1):1-2.
Lung cancer incidence among an Icelandic cohort exposed to diatomaceous earth and cristobalite. Rafnsson V, et al. **Scand J Work Environ Health** 1997 Jun;23(3):187-92
Low-level radiation [letter] Stöhrer G. **Science** 1996 Nov 29;274(5292):1450
Cancer risk in an arsenic-contaminated area of Chile. Rivara MI, et al. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):321-38
[Passive smoking and carcinogenic risk to the lung] Trédaniel J. **Bull Acad Natl Med** 1997 Apr;181(4):736-42 (18 ref.) **(Fre)**
[Squamous epithelial carcinoma of the tongue after occupational exposure to chromium VI compounds] Tisch M, et al. **Laryngorhinootologie** 1996 Aug;75(8):455-8 (Eng. Abstr.) **(Ger)**
[Molecular epidemiology--methods and goals] Zaridze DG. **Arkh Patol** 1996 May-Jun;58(3):45-9 (Eng. Abstr.) **(Rus)**
[Carcinogenic effects of radon in humans (literature review)] Averkina NA. **Med Tr Prom Ekol** 1996;(9):32-6 (20 ref.) (Eng. Abstr.) **(Rus)**

ANALYSIS

Fumonisins Veratox. A new rapid quantitative ELISA for determination of fumonisin in food and feed. Abouzied MM, et al. **Adv Exp Med Biol** 1996;392:135-44
Distribution of fumonisins in food and feed products prepared from contaminated corn. Bennett GA, et al. **Adv Exp Med Biol** 1996;392:317-22
Occurrence of Fusarium and fumonisins on food grains and in foods. Bullerman LB. **Adv Exp Med Biol** 1996;392:27-38 (31 ref.)
Immunochemical methods for fumonisins. Chu FS. **Adv Exp Med Biol** 1996;392:122-33 (68 ref.)
Analysis of fumonisin B1 in corn by capillary electrophoresis. Maragos CM, et al. **Adv Exp Med Biol** 1996;392:105-12
Effect of processing on fumonisin content of corn. Murphy PA, et al. **Adv Exp Med Biol** 1996;392:323-34 (21 ref.)
Quantitation and identification of fumonisins by liquid chromatography/mass spectrometry. Musser SM. **Adv Exp Med Biol** 1996;392:65-74
Occurrence of fumonisins in the U.S. food supply. Pohland AE. **Adv Exp Med Biol** 1996;392:19-26 (34 ref.)
Occurrence and fate of fumonisins in beef. Smith JS, et al. **Adv Exp Med Biol** 1996;392:39-55
Determination of underivatized fumonisin B1 and related compounds by HPLC. Wilkes JG, et al. **Adv Exp Med Biol** 1996;392:93-103
Concentration and size distribution of airborne hexavalent chromium in electroplating factories. Kuo HW, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):29-32
Production of a high-affinity monoclonal antibody specific for 7-(benzo[alpha]pyren-6-yl) guanine and its application in a competitive enzyme-linked immunosorbent assay. Casale GP, et al. **Chem Res Toxicol** 1996 Sep;9(6):1037-43
Carcinogens in food [news] **Environ Health Perspect** 1996 Jul;104(7):685
Monitoring human exposure to 2-hydroxyethylating carcinogens. Farmer PB, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:449-52
Environmental exposures to N-nitroso compounds and precursors: general review of methods and current status. Challis BC. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:19-26 (75 ref.)
Determination of hydrolysed fumonisin B1 in alkali-processed corn foods. Scott PM, et al. **Food Addit Contam** 1996 Oct;13(7):823-32
European intercomparison study for the determination of the fumonisins content in two maize materials. Visconti A, et al. **Food Addit Contam** 1996 Nov-Dec;13(8):909-27
Occurrence of fumonisins and aflatoxins in corn from Thailand. Yoshizawa T, et al. **Food Addit Contam** 1996 Feb-Mar;13(2):163-8
Occupational exposure to Cr(VI): comparison between chromium levels in lymphocytes, erythrocytes, and urine. Lukanova A, et al. **Int Arch Occup Environ Health** 1996; 69(1):39-44
Airborne hexavalent chromium in southwestern Ontario. Bell RW, et al. **J Air Waste Manag Assoc** 1997 Aug;47(8):905-10
Fumonisin levels in Uruguayan corn products. Piñeiro MS, et al. **J AOAC Int** 1997 Jul-Aug;80(4):825-8
Systemic uptake of chromium in human volunteers following dermal contact with hexavalent chromium (22 mg/L). Corbett GE, et al. **J Expo Anal Environ Epidemiol** 1997 Apr-Jun;7(2):179-89
Factors affecting use of CR-39 surface monitor technology to estimate past exposure to indoor radon. Mahaffey JA, et al. **J Expo Anal Environ Epidemiol** 1996 Oct-Dec; 6(4):425-37
Fumonisin exposure to Kansans through consumption of corn-based market foods. Rumbeiha WK, et al. **Vet Hum Toxicol** 1997 Aug;39(4):220-5
[Investigation and evaluation of fumonisin contamination of native and imported cereals] Meister U, et al. **Z Lebensm Unters Forsch** 1996 Dec;203(6):528-33 (Eng. Abstr.) **(Ger)**
[Comparison of several fluorescence HPLC methods for fumonisin analysis] Akiyama H, et al. **Eisei Shikenjo Hokoku** 1994;(112):112-7 (Eng. Abstr.) **(Jpn)**
[A set of devices for monitoring radon and thoron in various media] Kotliarov AA, et al. **Med Tekh** 1997 Jan-Feb; (1):25-7 (Eng. Abstr.) **(Rus)**

CHEMISTRY

NMR structural studies of fumonisin B1 and related compounds from Fusarium moniliforme. Blackwell BA, et al. **Adv Exp Med Biol** 1996;392:75-91 (35 ref.)
Commentary on "Hydroxypropyl cyclodextrins: potential synergism with carcinogens" [letter; comment] Van Cauteren H, et al. **J Pharm Sci** 1997 Mar;86(3):402-4. Comment on: J Pharm Sci 1996 Jan;85(1):96-100.

CLASSIFICATION

The NIEHS Predictive-Toxicology Evaluation Project: the need to distinguish informed uncertainty from ignorant equivocation [letter] Ashby J. **Environ Health Perspect** 1997 Jul;105(7):688
The changing risk assessments for crystalline silica. Goldsmith DF, et al. **J Expo Anal Environ Epidemiol** 1997 Jul-Sep;7(3):265-6

ISOLATION & PURIFICATION

Isolation and purification of fumonisin B1 and B2 from rice culture. Meredith FI, et al. **Adv Exp Med Biol** 1996; 392:113-22

METABOLISM

Solution structure of the minor conformer of a DNA duplex containing a dG mismatch opposite a benzo[a]pyrene diol epoxide/dA adduct: glycosidic rotation from syn to anti at the modified deoxyadenosine. Schwartz JL, et al. **Biochemistry** 1997 Sep 16;36(37):11069-76
Fumonisin B1 production by Fusarium proliferatum strain M5991 in a modified Myro liquid medium. Dantzer WR, et al. **Nat Toxins** 1996;4(4):168-73

PHARMACOKINETICS

Estimates of the chromium(VI) reducing capacity in human body compartments as a mechanism for attenuating its potential toxicity and carcinogenicity. De Flora S, et al. **Carcinogenesis** 1997 Mar;18(3):531-7
Disposition of 14C-derived residues in tissues of pigs fed radiolabelled fumonisin B1. Prelusky DB, et al. **Food Addit Contam** 1996 Feb-Mar;13(2):155-62
Ingestion of chromium(VI) in drinking water by human volunteers: absorption, distribution, and excretion of single and repeated doses. Kerger BD, et al. **J Toxicol Environ Health** 1997 Jan;50(1):67-95
Observation of steady state in blood and urine following human ingestion of hexavalent chromium in drinking water. Paustenbach DJ, et al. **J Toxicol Environ Health** 1996 Dec 6;49(5):453-61

PHARMACOLOGY

The mycotoxin fumonisin induces apoptosis in cultured human cells and in livers and kidneys of rats. Tolleson WH, et al. **Adv Exp Med Biol** 1996;392:237-50
Activation of mitogen-activated protein kinase by the carcinogenic mycotoxin fumonisin B1. Wattenberg EV, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):622-7
Effect of fumonisin B1 on the levels and fatty acid composition of selected lipids in rat liver in vivo. Gelderblom WC, et al. **Food Chem Toxicol** 1997 Jul; 35(7):647-56
Conformational effects in the p53 protein of mutations induced during chemical carcinogenesis: molecular dynamic and immunologic analyses. Brandt-Rauf PW, et al. **J Protein Chem** 1996 May;15(4):367-75
A study on carcinogenesis of endogenous nitrite and nitrosamine, and prevention of cancer. Huang YG, et al. **Mutat Res** 1996 Oct 28;358(1):7-14

POISONING

A foodborne disease outbreak due to the consumption of moldy sorghum and maize containing fumonisin mycotoxins. Bhat RV, et al. **J Toxicol Clin Toxicol** 1997; 35(3):249-55

RADIATION EFFECTS

Stability of fumonisins at different storage periods and temperatures in gamma-irradiated maize. Visconti A, et al. **Food Addit Contam** 1996 Nov-Dec;13(8):929-38

STANDARDS

IARC reevaluates silica and related substances. Wilbourn JD, et al. **Environ Health Perspect** 1997 Jul;105(7):756-9

TOXICITY

Hepatotoxicity and -carcinogenicity of the fumonisins in rats. A review regarding mechanistic implications for establishing risk in humans. Gelderblom WC, et al. **Adv Exp Med Biol** 1996;392:279-96 (62 ref.)
Fumonisin toxicity and metabolism studies at the USDA. Fumonisin toxicity and metabolism. Norred WP, et al. **Adv Exp Med Biol** 1996;392:225-36 (73 ref.)
Formation of free radicals from steroid hormones: possible significance in environmental carcinogenesis. Kodama M, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):439-44
Effects of dietary exposure to fumonisins from Fusarium moniliforme culture material (M-1325) on the reproductive performance of female mink. Powell DC, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):286-92
Decreased sensitivity to adriamycin in cadmium-resistant human lung carcinoma A549 cells. Hatcher EL, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):747-54
The cancer-promoting potential of fumonisin B1 in rat liver using diethylnitrosamine as a cancer initiator. Gelderblom WC, et al. **Cancer Lett** 1996 Dec 3;109(1-2):101-8
Genotoxicity of human mammary lipid. Martin FL, et al. **Cancer Res** 1996 Dec 1;56(23):5342-6
The carcinogenicity of environmental tobacco smoke. Witschi H, et al. **Carcinogenesis** 1997 Mar;18(3):575-86
DNA adduct formation in the human nasal mucosa as a biomarker of exposure to environmental mutagens and carcinogens. Flato S, et al. **Environ Health Perspect** 1996

May;104 Suppl 3:471–3

Interaction between dose and susceptibility to environmental cancer: a short review. Hietanen E, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:749–54 (70 ref.)

Human exposure to carcinogenic heterocyclic amines and their mutational fingerprints in experimental animals. Nagao M, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:497–501 (31 ref.)

Topics in cancer risk assessment. Olin SS, et al. **Environ Health Perspect** 1997 Feb;105 Suppl 1:117–26 (142 ref.)

Environmental effects and aquatic organisms: investigations of molecular mechanisms of carcinogenesis. Van Beneden RJ. **Environ Health Perspect** 1997 Apr;105 Suppl 3:669–74 (64 ref.)

Breast cancer risk and environmental exposures. Wolff MS, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:891–6 (76 ref.)

Lack of transforming activity of fumonisin B1 in BALB/3T3 A31–1–1 mouse embryo cells. Sheu CW, et al. **Food Chem Toxicol** 1996 Aug;34(8):751–3

Molecular epidemiology: low–dose carcinogens and genetic susceptibility. Vineis P. **Int J Cancer** 1997 Mar 28;71(1):1–3 (18 ref.)

Hodgkin's disease in association with hexavalent chromium exposure. Bick RL, et al. **Int J Hematol** 1996 Oct; 64(3–4):257–62

Alterations of the glutathione redox cycle status in fumonisin B1–treated pig kidney cells. Kang YJ, et al. **J Biochem Toxicol** 1996;11(3):121–6

Ochratoxin a: a new environmental factor which is toxic for the kidney? [editorial] Simon P, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2389–91

Effects of fumonisin B1 treatment on blood–brain barrier transfer in developing rats. Kwon OS, et al. **Neurotoxicol Teratol** 1997 Mar–Apr;19(2):151–5

Fumonisins, mycotoxins of increasing importance: their nature and their effects. Dutton MF. **Pharmacol Ther** 1996; 70(2):137–61 (400 ref.)

Effects of feeding Fusarium moniliforme culture material, containing known levels of fumonisin B1, in the young turkey poult. Ledoux DR, et al. **Poult Sci** 1996 Dec; 75(12):1472–8

Induction of cytochrome P4501A1 and P4504A1 activities and peroxisomal proliferation by fumonisin B1. Martinez–Larrañaga MR, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):185–94

Fumonisin B1 induces protein kinase C translocation via direct interaction with diacylglycerol binding site. Yeung JM, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):178–84

Clastogenicity and mutagenicity of hexavalent chromium in lacZ transgenic mice. Itoh S, et al. **Toxicol Lett** 1997 May 16;91(3):229–33

The presence and phytotoxicity of fumonisins and AAL–toxin in Alternaria alternata [published erratum appears in Toxicon 1996 Apr;34(4):503] Abbas HK, et al. **Toxicon** 1996 Jan;34(1):133–6

Disruption of sphingolipid metabolism in non–human primates consuming diets of fumonisin–containing Fusarium moniliforme culture material. Shephard GS, et al. **Toxicon** 1996 May;34(5):527–34

Effects of fusarium moniliforme isolates on tissue and serum sphingolipid concentrations in horses. Goel S, et al. **Vet Hum Toxicol** 1996 Aug;38(4):265–70

Immunoprophylactic intervention in chemical toxicity and carcinogenicity. Silbart LK, et al. **Vet Hum Toxicol** 1997 Feb;39(1):37–43 (72 ref.)

[Natural toxin series: (2) A sphingosine–like mycotoxin, fumonisin] Ueno Y, et al. **J Toxicol Sci** 1996 Feb;21(1 Appendix):27–39 (78 ref.) **(Jpn)**

CARCINOID see **CARCINOID TUMOR**

CARCINOID, GOBLET CELL see **CARCINOID TUMOR**

CARCINOID HEART DISEASE

A unique heart disease associated with a unique cancer: carcinoid heart disease. Roberts WC. **Am J Cardiol** 1997 Jul 15;80(2):251–6 (30 ref.)

COMPLICATIONS

Regression of metastatic carcinoid tumor after valvular surgery for carcinoid heart disease. Rayson D, et al. **Cancer** 1997 Feb 1;79(3):605–11

Carcinoid heart disease with severe hypoxia due to interatrial shunt through patent foramen ovale. Boglioli LR, et al. **Tex Heart Inst J** 1997;24(2):125–8

PATHOLOGY

Regression of metastatic carcinoid tumor after valvular surgery for carcinoid heart disease. Rayson D, et al. **Cancer** 1997 Feb 1;79(3):605–11

Nonvalvular myocardial involvement in metastatic carcinoid disease. Davis G, et al. **Postgrad Med J** 1996 Dec; 72(854):751–2

SURGERY

Successful tricuspid valve replacement and pulmonary valvulotomy for carcinoid heart disease. Defraigne JO, et al. **Acta Chir Belg** 1996 Jul–Aug;96(4):170–6 (46 ref.)

Tricuspid and pulmonary valve replacement in carcinoid heart disease: two case reports and a review of the literature. Konstantinov IE, et al. **J Heart Valve Dis** 1997 Mar;6(2):193–7 (35 ref.)

CARCINOID TUMOR

Carcinoid tumors of the ampulla of Vater. Walton GF, et al. **Am Surg** 1997 Apr;63(4):302–4

Giant carcinoid tumor of the lung. Sheppard BB, et al. **Ann Thorac Surg** 1997 Mar;63(3):851–2 (7 ref.)

Concurrent colonic adenocarcinoma and two ileal carcinoids in a 72–year–old male. Tse V, et al. **Aust N Z J Surg** 1997 Oct;67(10):739–41 (10 ref.)

An analysis of 8305 cases of carcinoid tumors. Modlin IM, et al. **Cancer** 1997 Feb 15;79(4):813–29

Recent advances in diagnosis and therapy of neuroendocrine tumors of the gastrointestinal tract. Pelley RJ, et al. **Curr Opin Oncol** 1997 Jan;9(1):68–74 (74 ref.)

Gastrointestinal carcinoid tumors: current management strategies. Memon MA, et al. **Dis Colon Rectum** 1997 Sep; 40(9):1101–18 (180 ref.)

Carcinoid disease: review of the literature. Neary PC, et al. **Dis Colon Rectum** 1997 Mar;40(3):349–62 (182 ref.)

Carcinoid tumours. Janmohamed S, et al. **Postgrad Med J** 1997 Apr;73(858):207–14 (39 ref.)

Primary carcinoid of the kidney. Sahin A, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):325–7 (9 ref.)

Carcinoid tumors: development of our knowledge. Creutzfeldt W. **World J Surg** 1996 Feb;20(2):126–31 (68 ref.)

Carcinoid tumors—introduction. Rothmund M. **World J Surg** 1996 Feb;20(2):125

[Carcinoids of the gastrointestinal tract] von Bubnoff AC, et al. **Dtsch Med Wochenschr** 1997 Jul 11;122(28–29):901–7 (67 ref.) **(Ger)**

[Personal experience in the treatment of intestinal carcinoids] Inzaghi A, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):25–31 (Eng. Abstr.) **(Ita)**

[Diagnosis and treatment of gastrointestinal carcinoid. Report of a clinical case with duodenal site] Pastore C, et al. **Minerva Chir** 1997 Mar;52(3):283–7 (Eng. Abstr.) **(Ita)**

[Neuroendocrine pancreatic tumor with no argentaffin cells: report of a case] Galasso C, et al. **Radiol Med (Torino)** 1996 Jul–Aug;92(1–2):152–4 **(Ita)**

[Primary testicular carcinoid tumor with teratoma: a case report] Takagi Y, et al. **Hinyokika Kiyo** 1997 Feb; 43(2):157–9 (Eng. Abstr.) **(Jpn)**

[Carcinoid tumor] Mishina N, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):15–7 (8 ref.) **(Jpn)**

[Primary multiple carcinoids of the small intestine] Krasnokutskii IA. **Klin Med (Mosk)** 1996;74(8):68–9 **(Rus)**

[Treatment of liver metastasis of endocrine tumors of the pancreas] Orozco Zepeda H. **Rev Gastroenterol Mex** 1997 Jan–Mar;62(1):50–6 (28 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

High serum levels of the thyrotropin–releasing hormone–like peptide pyroglutamyl–glutamyl–prolineamide in patients with carcinoid tumors. Klootwijk W, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2816–20

The use of chromogranin, synaptophysin and islet amyloid polypeptide as markers for neuroendocrine tumours. Stridsberg M. **Ups J Med Sci** 1995;100(3):169–99 (186 ref.)

CLASSIFICATION

Gastrointestinal carcinoids—aspects of diagnosis and classification. Nilsson O. **APMIS** 1996 Jul–Aug; 104(7–8):481–92 (53 ref.)

Terminology of endocrine tumors of the uterine cervix: results of a workshop sponsored by the College of American Pathologists and the National Cancer Institute. Albores–Saavedra J, et al. **Arch Pathol Lab Med** 1997 Jan; 121(1):34–9 (32 ref.)

[Carcinoid tumor—a questionable entity? (editorial)] Arnold R. **Chirurg** 1997 Feb;68(2):132–5 **(Ger)**

COMPLICATIONS

Carcinoid of the ampulla of Vater presenting as acute pancreatitis. Mergener K, et al. **Am J Gastroenterol** 1996 Nov;91(11):2426–7

Acquired intralobar bronchopulmonary sequestration secondary to occluding endobronchial carcinoid tumor. Eustace S, et al. **Clin Imaging** 1996 Jul–Sep;20(3):178–80

Colonic variceal bleeding in a patient with mesenteric venous obstruction due to an ileal carcinoid tumour. Miao YM, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1133–5 (13 ref.)

A 62 year old diabetic with weight loss and lung lesions. Wilkinson IB, et al. **Eur Respir J** 1997 Mar;10(3):740–3

Shift from CRH to ACTH production in a thymic carcinoid with Cushing's syndrome. Ozawa Y, et al. **Horm Res** 1996; 45(6):264–8

Spontaneous appendicocutaneous fistula. Jagdish S, et al. **Indian J Gastroenterol** 1996 Jan;15(1):31

Carcinoid tumor presenting as acute abdomen due to hemoperitoneum. Rungta U, et al. **Indian J Gastroenterol** 1995 Oct;14(4):147–8

Primary trabecular carcinoid tumor of the ovary [letter] Ren JH, et al. **Int J Gynaecol Obstet** 1996 Feb;52(2):195–6

Octreotide and ketoconazole for persistent ectopic ACTH Cushing's disease due to mediastinal carcinoid. Parthiban A, et al. **J Assoc Physicians India** 1995 Feb;43(2):140

Primary biliary cirrhosis and gastric carcinoid: a rare association? Mörk H, et al. **J Clin Gastroenterol** 1997 Jun; 24(4):270–3

Carcinoid tumors and sarcoidosis—does a link exist? Levy NT, et al. **Mayo Clin Proc** 1997 Feb;72(2):112–6

Pulmonary tumourlets and microcarcinoids in bronchiectasis. Canessa PA, et al. **Monaldi Arch Chest Dis** 1997 Apr; 52(2):138–9

Ectopic acromegaly. Platts JK, et al. **Postgrad Med J** 1997 Jun;73(860):349–51

Ectopic Cushing's syndrome in a young female with atypical [corrected] bronchial carcinoid tumour [published erratum appears in Singapore Med J 1997 Feb;38(2):53] Loh KC, et al. **Singapore Med J** 1997 Jan;38(1):29–31

[Edema caused by retroperitoneal and tricuspid fibrosis with sclerodermatous cutaneous involvement disclosing carcinoid tumor. Apropos of a case and review of the literature] Morand JJ, et al. **Rev Med Interne** 1997; 18(5):388–95 (61 ref.) (Eng. Abstr.) **(Fre)**

[Carcinoid tumor in Meckel's diverticulum: case presentation and review of the literature] Sutter PM, et al. **Schweiz Med Wochenschr Suppl** 1997;89:20S–24S (37 ref.) (Eng. Abstr.) **(Ger)**

[Intestinal occlusion caused by cecal carcinoid] Barone G, et al. **Ann Ital Chir** 1996 Mar–Apr;67(2):271–5; discussion 275–6 (Eng. Abstr.) **(Ita)**

[A case of multiple gastric carcinoid tumors associated with type A gastritis, diabetes insipidus and Hashimoto's disease] Fuse K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr; 94(4):261–7 **(Jpn)**

[Chronic atrophic gastritis, hypergastinemia and gastric carcinoid tumor] Castellote J, et al. **Rev Esp Enferm Dig** 1997 Jun;89(6):485–7 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

A primary carcinoid tumor of the kidney: a case report and review of the literature. Kurl S, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):464–7 (24 ref.)

Primary mixed trabecular and insular carcinoid tumor of the ovary: a case report. Müngen E, et al. **Acta Obstet Gynecol Scand** 1997 Mar;76(3):279–81

Sertraline, a selective serotonin reuptake inhibitor, unmasking carcinoid syndrome. Noyer CM, et al. **Am J Gastroenterol** 1997 Aug;92(8):1387–8

A case report of a large thymic carcinoid. Chan KY, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):584–6

Gastrointestinal carcinoids—aspects of diagnosis and classification. Nilsson O. **APMIS** 1996 Jul–Aug; 104(7–8):481–92 (53 ref.)

Carcinoid tumor in the appendix in a patient with acquired immunodeficiency syndrome [letter] Warner D, et al. **Arch Intern Med** 1997 Sep 22;157(17):2016

Carcinoid tumours. Tiensuu Janson EM, et al. **Baillieres Clin Gastroenterol** 1996 Dec;10(4):589–601 (40 ref.)

Primary extrahepatic bile duct carcinoids. Belli G, et al. **HPB Surg** 1996;9(2):101–5 (15 ref.)

Carcinoid tumor of the common bile duct. Kopelman D, et al. **HPB Surg** 1996;10(1):41–3

Carcinoid of the ampulla of Vater: dealing with a medical curiosity. Archimandritis A, et al. **J Clin Gastroenterol** 1996 Sep;23(2):159–60

Thoracic and abdominal SPECT–CT image fusion without external markers in endocrine carcinomas. The Group of Thyroid Tumoral Pathology of Champagne–Ardenne. Pérault C, et al. **J Nucl Med** 1997 Aug;38(8):1234–42

A 44–year–old woman with diarrhoea and double vision [see comments] Arruda WO, et al. **Lancet** 1997 Jun 28; 349(9069):1882. Comment in: Lancet 1997 Jul 26;350(9073):298.

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 9–1997. A 39–year–old woman with pernicious anemia and a gastric mass [clinical conference] **N Engl J Med** 1997 Mar 20;336(12):861–7

Use of calcium provocative test in the diagnosis of gastroenteropancreatic endocrine tumors. Vezzadini C, et al. **Panminerva Med** 1996 Dec;38(4):255–8 (14 ref.)

Endocrine carcinoma of the kidney. Gurley SD, et al. **Ultrastruct Pathol** 1997 May–Jun;21(3):307–10

Clinical manifestations of carcinoid disease. Bax ND, et al. **World J Surg** 1996 Feb;20(2):142–6 (33 ref.)

Carcinoid tumors: imaging procedures and interventional radiology. Wallace S, et al. **World J Surg** 1996 Feb; 20(2):147–56 (73 ref.)

[Carcinoma–associated retinopathy in breast carcinoma and carcinoid tumor] Holz FG, et al. **Ophthalmologe** 1997 May; 94(5):337–42 (Eng. Abstr.) **(Ger)**

[Liver metastasis from carcinoid: diagnostic imaging] De Santis M, et al. **Radiol Med (Torino)** 1996 Nov;92(5):594–9 (Eng. Abstr.) **(Ita)**

[A 42–year–old woman with cardiac tumor and tamponade] Nakayama M, et al. **J Cardiol** 1996 Dec;28(6):355–6 **(Jpn)**

[Peripheral carcinoid tumor of the lung presenting as a solitary mass shadow on a chest roentgenogram and diagnosed by CT–guided percutaneous needle biopsy]

Kakemizu N, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 Apr;35(4):432–6 (Eng. Abstr.) **(Jpn)**
[Bronchial carcinoid—recurrence after six years. Bronchoscopy and computerized tomography assessment] Gąsiorek D, et al. **Pneumonol Alergol Pol** 1996; 64(5–6):331–4 (Eng. Abstr.) **(Pol)**
[Bronchial carcinoid] Jassem E, et al.
Pneumonol Alergol Pol 1997;65(5–6):406–10 (28 ref.) **(Pol)**
[Appendicular carcinoid. The diagnostic and treatment problems] Ticmeanu F, et al. **Chirurgia (Bucur)** 1996 Mar–Apr;45(2):91–2 (Eng. Abstr.) **(Rum)**
[A case of carcinoid of the pancreas] Budiak VA, et al.
Lik Sprava 1996 Mar–Apr;(3–4):166–7 (6 ref.) **(Rus)**
[Carcinoids of the large intestine] Petrov VP.
Vestn Khir Im I I Grek 1996;(1):38–40 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Octreotide therapy in carcinoid disease. Bax ND, et al.
Anticancer Drugs 1996 Jan;7 Suppl 1:17–22 (35 ref.)
Long-term results of continuous treatment with recombinant interferon-alpha in patients with metastatic carcinoid tumors—an antiangiogenic effect? Dirix LY, et al.
Anticancer Drugs 1996 Feb;7(2):175–81
Incidence and morbidity of cholelithiasis in patients receiving chronic octreotide for metastatic carcinoid and malignant islet cell tumors. Trendle MC, et al. **Cancer** 1997 Feb 15; 79(4):830–4
The role of surgery in patients with advanced midgut carcinoid tumours. Ahlman H. **Digestion** 1996;57 Suppl 1:86–7
Medical treatment of metastasizing carcinoid tumors. Arnold R. **World J Surg** 1996 Feb;20(2):203–7 (43 ref.)

EPIDEMIOLOGY

A 40-year analysis of 265 gastric carcinoids. Modlin IM, et al. **Am J Gastroenterol** 1997 Apr;92(4):633–8
Increasing incidence of adenocarcinomas and carcinoid tumors of the small intestine in adults. Severson RK, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):81–4
Epidemiology of carcinoid tumours in central Italy. Crocetti E, et al. **Eur J Epidemiol** 1997 Apr;13(3):357–9
An 18-year follow-up of primary hepatic carcinoid with carcinoid syndrome. Mehta DC, et al.
J Clin Gastroenterol 1996 Jul;23(1):60–2 (22 ref.)

ETIOLOGY

Pernicious anemia and gastric carcinoid tumor: case report and review. Sculco D, et al. **Am J Gastroenterol** 1997 Aug; 92(8):1378–80 (57 ref.)
Histidine decarboxylase expression and histamine metabolism in gastric oxyntic mucosa during hypergastrinemia and carcinoid tumor formation. Kölby L, et al.
Endocrinology 1996 Oct;137(10):4435–42
Horseshoe kidney is associated with an increased relative risk of primary renal carcinoid tumor. Krishnan B, et al. **J Urol** 1997 Jun;157(6):2059–66 (42 ref.)
Gastric carcinoid tumors associated with chronic hypergastrinemia in a patient with Zollinger-Ellison syndrome. Berger MW, et al. **Radiology** 1996 Nov; 201(2):371–3

GENETICS

The presence of K-12 ras mutations in duodenal adenocarcinomas and the absence of ras mutations in other small bowel adenocarcinomas and carcinoid tumors. Younes N, et al. **Cancer** 1997 May 1;79(9):1804–8
Neuroendocrine tumors of the lung. Pathology and molecular biology. Vuitch F, et al. **Chest Surg Clin N Am** 1997 Feb; 7(1):21–47 (79 ref.)
The multiple endocrine neoplasia type I gene locus is involved in the pathogenesis of type II gastric carcinoids. Debelenko LV, et al. **Gastroenterology** 1997 Sep; 113(3):773–81
Carcinoid tumors of the lung and family history of cancer. Perkins P, et al. **J Clin Epidemiol** 1997 Jun;50(6):705–9
Similar rectal carcinoid tumors of two siblings with curative endoscopic snare resection. Maroy B.
J Clin Gastroenterol 1997 Mar;24(2):124–5

IMMUNOLOGY

S-100 protein positive (sustentacular) cells in pulmonary carcinoid tumorlets: a quantitative study of 24 cases. Rešl M, et al. **Pathol Res Pract** 1996 May;192(5):414–7

METABOLISM

Differential retinoblastoma protein expression in neuroendocrine tumors of the lung. Potential diagnostic implications. Cagle PT, et al. **Am J Pathol** 1997 Feb; 150(2):393–400
Immunohistochemical expression of transforming growth factor alpha and epidermal growth factor receptor in gastrointestinal carcinoids. Krishnamurthy S, et al.
Am J Surg Pathol 1997 Mar;21(3):327–33
Endocrine cell carcinoma (carcinoid tumour) of the gallbladder producing pancreatic polypeptide and somatostatin [letter] Heymann MF, et al. **Histopathology** 1997 Jun;30(6):606–7
Carcinoid tumor of the common bile duct producing gastrin and serotonin. Hao L, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):63–5
Secretory patterns of tryptophan metabolites in midgut carcinoid tumor cells. Westberg G, et al.
Neurochem Res 1997 Aug;22(8):977–83
Mucin-producing adenocarcinoma of the lung, with special reference to goblet cell type adenocarcinoma: immunohistochemical observation and Ki-ras gene mutation. Maeshima A, et al. **Pathol Int** 1997 Jul; 47(7):454–60
Effects of gastrin on the histamine-secretory and proliferative activity of cultured carcinoid cells derived from the stomach of the rodent Mastomys natalensis. Takeno S, et al. **Pathol Int** 1997 Feb–Mar;47(2–3):95–102
p53 and proliferating cell nuclear antigen in endocrine tumors of pancreas and intestinal carcinoids. Tomita T.
Pathology 1997 May;29(2):147–53
Immunoreactive tachykinins in 24-h collections of urine from patients with carcinoid tumours: characterization and correlation with plasma concentrations. Bergstrom M, et al. **Scand J Clin Lab Invest** 1995 Dec;55(8):679–89
Immunohistochemical localization of acidic fibroblast growth factor in normal human enterochromaffin cells and related gastrointestinal tumours. La Rosa S, et al.
Virchows Arch 1997 Feb;430(2):117–24

MORTALITY

Carcinoid tumors: analysis of prognostic factors and survival in 301 patients from a referral center. Janson ET, et al. **Ann Oncol** 1997 Jul;8(7):685–90
Carcinoid tumors of the rectum: effect of size, histopathology, and surgical treatment on metastasis free survival. Koura AN, et al. **Cancer** 1997 Apr 1;79(7):1294–8

PATHOLOGY

Bronchiolitis obliterans due to neuroendocrine hyperplasia: high-resolution CT—pathologic correlation. Brown MJ, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1561–2
Pretreatment characteristics of carcinoid tumors of the lung which predict aggressive behavior. Perkins P, et al.
Am J Clin Oncol 1997 Jun;20(3):285–8
Carcinoid tumor and inflammatory bowel disease: a study of eleven cases and review of the literature. Greenstein AJ, et al. **Am J Gastroenterol** 1997 Apr;92(4):682–5 (37 ref.)
Goblet cell carcinoid arising in a mature teratoma of the mediastinum. Lancaster KJ, et al. **Am J Surg Pathol** 1997 Jan;21(1):109–13
Metastatic neuroendocrine tumors to the thyroid gland mimicking medullary carcinoma: a pathologic and immunohistochemical study of six cases. Matias-Guiu X, et al. **Am J Surg Pathol** 1997 Jul;21(7):754–62
Effect of 6-diazo-5-oxo-L-norleucine (DON) on human carcinoid tumor cell aggregates. Wu F, et al.
Anticancer Res 1997 Jul–Aug;17(4A):2363–7
Carcinoids of the jejunum and ileum: an immunohistochemical and clinicopathologic study of 167 cases. Burke AP, et al. **Cancer** 1997 Mar 15;79(6):1086–93
Atypical carcinoid of the esophagus: a case report and review of the literature. Lindberg GM, et al. **Cancer** 1997 Apr 15;79(8):1476–81 (21 ref.)
Peritoneal carcinomatosis in patients with digestive endocrine tumors. Vasseur B, et al. **Cancer** 1996 Oct 15;78(8):1686–92
Carcinoid tumors of the gastrointestinal tract in Chinese of Taiwan: an analysis of fifty cases. Weng YJ, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1996 Oct;58(4):254–8
Spindle-cell thymic carcinoid occurring in multiple endocrine neoplasia I: fine-needle aspiration findings in a case. Dusenbery D. **Diagn Cytopathol** 1996 Dec; 15(5):439–41
Widespread intraabdominal carcinoid tumor presenting as an umbilical metastasis: diagnosis by fine-needle aspiration [letter] Grunewald B, et al. **Diagn Cytopathol** 1996 Dec; 15(5):457–8
Malignant pleural effusions due to adeno-endocrine-cell carcinoma of the appendix: a case report. Kobayashi TK, et al. **Diagn Cytopathol** 1997 Jun;16(6):522–5
Somatostatin receptor regulation of gastric carcinoid tumours. Tang LH, et al. **Digestion** 1996;57 Suppl 1:11–4 (30 ref.)
Carcinoid tumour of the oesophagus: a rare oesophageal cancer. Gupta NM, et al. **Eur J Surg** 1996 Oct; 162(10):841–4 (17 ref.)
Duodenal carcinoid tumour with psammoma bodies: a rare cause of haematemesis. Rämö OJ, et al. **Eur J Surg** 1997 Mar;163(3):227–30
The role of transforming growth factor alpha in the enterochromaffin-like cell tumor autonomy in an African rodent mastomys. Tang LH, et al. **Gastroenterology** 1996 Nov;111(5):1212–23
Dual carcinoid/epithelial neoplasia of the appendix. Carr NJ, et al. **Histopathology** 1995 Dec;27(6):557–62
Nuclear pleomorphism in typical carcinoid tumours of the lung: problems in frozen section interpretation. Sheppard MN. **Histopathology** 1997 May;30(5):478–80
Collision tumour of the ampulla of Vater: carcinoid and adenocarcinoma. Williams IM, et al. **HPB Surg** 1997; 10(4):241–4
Bilateral Krukenberg tumors due to appendiceal mucinous carcinoid. Klein EA, et al. **Int J Gynecol Pathol** 1996 Jan; 15(1):85–8
Carcinoid tumor of the gall bladder. Nishigami T, et al.
Intern Med 1996 Dec;35(12):953–6
Five primary synchronous neoplasms of the gastrointestinal tract. Mitchell ME, et al. **J Clin Gastroenterol** 1996 Dec; 23(4):284–8
Primary ovarian carcinoid tumor. Chou YY, et al.
J Formos Med Assoc 1996 Feb;95(2):148–52
Carcinoid tumors of the lung: immuno- and ligandohistochemistry, analysis of integrated optical density, syntactic structure analysis, clinical data, and prognosis of patients treated surgically. Kayser K, et al.
J Surg Oncol 1996 Oct;63(2):99–106
Clinicopathologic studies of thymic carcinoids in multiple endocrine neoplasia type 1. Teh BT, et al.
Medicine (Baltimore) 1997 Jan;76(1):21–9
Neuroendocrine (carcinoid) tumor of the mandible: a case report and review of the literature. Coleman H, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Jan;81(1):74–8 (14 ref.)
Primary carcinoid tumor of the kidney with special reference to its histogenesis. Takeshima Y, et al. **Pathol Int** 1996 Nov; 46(11):894–900 (37 ref.)
Carcinoid tumor as a part of mature teratoma of the testis. Czopek J, et al. **Pol J Pathol** 1996;47(2):91–3
An unusual rectal polyp. Bhandarkar DS, et al.
Postgrad Med J 1997 May;73(859):313–4
Carcinoid tumor with uterine location. Case report. Lazăr E, et al. **Rom J Morphol Embryol** 1996 Jan–Jun; 42(1–2):89–94
Basal chromogranin A and gastrin concentrations in circulation correlate to endocrine cell proliferation in type-A gastritis. Borch K, et al. **Scand J Gastroenterol** 1997 Mar;32(3):198–202
Gastrointestinal endocrine cancers and nodal metastasis: biologic significance and therapeutic implications. Peplinski GR, et al. **Surg Oncol Clin N Am** 1996 Jan;5(1):159–71 (101 ref.)
Carcinoids of the rectum: an evaluation of 1271 reported cases. Soga J. **Surg Today** 1997;27(2):112–9 (16 ref.)
Somatostatin receptor regulation of gastric enterochromaffin-like cell transformation to gastric carcinoid. Borin JF, et al. **Surgery** 1996 Dec;120(6):1026–32
Atypical carcinoid tumor of the larynx: an immunohistochemical, ultrastructural, and flow cytometric analysis. McCluggage WG, et al. **Ultrastruct Pathol** 1997 Sep–Oct;21(5):431–8
Malignant carcinoid tumor and synchronous malignant extraadrenal paraganglioma. Covelli MA, et al.
W V Med J 1997 May–Jun;93(3):126–9
Pulmonary and thymic carcinoid tumors. Dusmet ME, et al. **World J Surg** 1996 Feb;20(2):189–95 (59 ref.)
Pathology and nomenclature of human gastrointestinal neuroendocrine (carcinoid) tumors and related lesions. Klöppel G, et al. **World J Surg** 1996 Feb;20(2):132–41 (88 ref.)
Gastric carcinoids and neuroendocrine carcinomas: pathogenesis, pathology, and behavior. Rindi G, et al.
World J Surg 1996 Feb;20(2):168–72
[Satellite cells in pulmonary carcinoid tumorlets and carcinoids] Rešl M, et al. **Cesk Patol** 1996 Aug;32(3):97–100 (Eng. Abstr.) **(Cze)**
[A case report of primary renal carcinoid tumor] Kubota Y, et al. **Hinyokika Kiyo** 1996 Sep;42(9):671–5 (14 ref.) (Eng. Abstr.) **(Jpn)**
[Recurrent thymic carcinoid tumor with multiple endocrine neoplasia syndrome--a case report] Kanno R, et al.
Nippon Kyobu Geka Gakkai Zasshi 1997 Feb;45(2):213–9 (Eng. Abstr.) **(Jpn)**
[Carcinoid tumors of the lung] Kharchenko VP, et al.
Arkh Patol 1996 Jul–Aug;58(4):48–56 (Eng. Abstr.) **(Rus)**
[Gastric collision tumor with osseous metaplasia] Camuñas Mohinelo FA, et al. **Rev Esp Enferm Dig** 1997 Apr; 89(4):317–9 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Electrophysiological properties of human carcinoid cells of the gut. Glassmeier G, et al. **Gastroenterology** 1997 Jul; 113(1):90–100

RADIOGRAPHY

Right iliac fossa pain. Law EM, et al. **Acad Radiol** 1997 Aug; 4(8):608–11
Bronchiolitis obliterans due to neuroendocrine hyperplasia: high-resolution CT—pathologic correlation. Brown MJ, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1561–2
Unilateral lung hyperinflation in a patient with chronic cough. Rosenkranz S, et al. **Chest** 1997 Apr;111(4):1117–9
Abdominal carcinoid tumor. Zapletal J, et al.
J Belge Radiol 1996 Dec;79(6):287

RADIONUCLIDE IMAGING

Single photon emission computerized tomography increases the sensitivity of indium-111-pentetreotide scintigraphy in detecting abdominal carcinoids. Schillaci O, et al.
Anticancer Res 1997 May–Jun;17(3B):1753–6
Tc-99m MIBI uptake in a bronchial carcinoid tumor. Arbab AS, et al. **Clin Nucl Med** 1996 Dec;21(12):1005–6
Incidental appendix carcinoid. Value of somatostatin receptor

imaging. Hoegerle S, et al. **Clin Nucl Med** 1997 Jul; 22(7):467–9

Gallbladder visualization at twenty-four hours with octreotide scintigraphy. Potential false-positive finding. Kipper MS, et al. **Clin Nucl Med** 1997 Apr;22(4):253–4

In-111 labeled octreotide imaging of a primary carcinoid lesion undetected by conventional imaging studies in a patient with "chronic pancreatitis". Kummar S, et al. **Clin Nucl Med** 1996 Aug;21(8):634–7

Combined diagnostic imaging with 131I-metaiodobenzylguanidine and 111In-pentetreotide in carcinoid tumours. Taal BG, et al. **Eur J Cancer** 1996 Oct; 32A(11):1924–32

Use of In-111 pentetreotide scintigraphy in the diagnosis of a midgut carcinoid causing Cushing's syndrome. Segu VB, et al. **Eur J Endocrinol** 1997 Jul;137(1):79–83

Successful and unsuccessful approaches to imaging carcinoids: comparison of a radiolabelled tryptophan hydroxylase inhibitor with a tracer of biogenic amine uptake and storage, and a somatostatin analogue. Macfarlane D, et al. **Eur J Nucl Med** 1996 Feb;23(2):131–40

Comparison of somatostatin analogue and metaiodobenzylguanidine scintigraphy for the detection of carcinoid tumours. Nocaudie-Calzada M, et al. **Eur J Nucl Med** 1996 Nov;23(11):1448–54

In vitro and in vivo studies of three radiolabelled somatostatin analogues: 123I-octreotide (OCT), 123I-Tyr-3-OCT and 111In-DTPA-D-Phe-1-OCT. Virgolini I, et al. **Eur J Nucl Med** 1996 Oct;23(10):1388–99

Diagnosis of ectopic ACTH production from a bronchial carcinoid by imaging with octreotide scintigraphy. Kristoffersson A, et al. **Eur J Surg** 1996 Jun;162(6):515–8

The value of somatostatin-receptor scintigraphy in newly diagnosed endocrine gastroenteropancreatic tumors. Kisker O, et al. **J Am Coll Surg** 1997 May;184(5):487–92

Imaging of bronchial carcinoid tumors associated to Cushing syndrome with 111In-Octreoscan scintigraphy and immunoscintigraphy with anti-chromogranin monoclonal antibodies. Report of two cases. Carretta A, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):191–4

Adenocarcinoid of the liver arising within an area of hamartoma with predominant bile duct component. Papadogiannakis N, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):145–51

Localization and postoperative follow-up of a bronchial carcinoid tumor causing Cushing's syndrome by 111In-DTPA labelled octreotide scintigraphy. Fernandez-Fernandez F, et al. **J Endocrinol Invest** 1997 Jun;20(6):327–30

Internalization of indium-111 into human neuroendocrine tumor cells after incubation with indium-111-DTPA-D-Phe1-octreotide. Andersson P, et al. **J Nucl Med** 1996 Dec;37(12):2002–6

Characterizing an ectopic secreting carcinoid with indium-111-DTPA-D-Phe-pentetreotide. Briganti V, et al. **J Nucl Med** 1997 May;38(5):711–4

False-negative fluorine-18-FDG PET in metastatic carcinoid. Jadvar H, et al. **J Nucl Med** 1997 Sep; 38(9):1382–3

Vasoactive intestinal peptide and somatostatin receptor scintigraphy for differential diagnosis of hepatic carcinoid metastasis. Kurtaran A, et al. **J Nucl Med** 1997 Jun; 38(6):880–1

Clinical impact of somatostatin receptor scintigraphy in the management of patients with neuroendocrine gastroenteropancreatic tumors. Lebtahi R, et al. **J Nucl Med** 1997 Jun;38(6):853–8

Radiolabeled somatostatin analog scintigraphy in medullary thyroid carcinoma and carcinoid tumor. Rufini V, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):140–4

Evaluation of somatostatin-receptor scintigraphy for detecting neuroendocrine tumors. Meko JB, et al. **Surgery** 1996 Dec;120(6):975–83; discussion 983–4

Value of somatostatin receptor scintigraphy for preoperative localization of carcinoids. Kisker O, et al. **World J Surg** 1996 Feb;20(2):162–7

Somatostatin receptor scintigraphy in patients with carcinoid tumors. Kwekkeboom DJ, et al. **World J Surg** 1996 Feb; 20(2):157–61

[Thymic carcinoid tumor causing paraneoplastic Cushing syndrome. Diagnostic value of double-labelled tomoscintigraphy] Matejka G, et al. **Presse Med** 1996 Sep 14;25(26):1201–2 (Eng. Abstr.) **(Fre)**

[111IN-octreotide and 123I-MIBG scintigraphy in the diagnosis of small intestinal carcinoid tumors--results of a comparative investigation] Dresel S, et al. **Nuklearmedizin** 1996 Apr;35(2):53–8 (Eng. Abstr.) **(Ger)**

[Somatostatin receptor scintigraphy. Methodology, indications, results] Eising EG, et al. **Radiologe** 1996 Jan; 36(1):81–8 (33 ref.) (Eng. Abstr.) **(Ger)**

[Liver metastasis and nuclear medicine (letter)] Centi Colella AC. **Radiol Med (Torino)** 1997 Mar;93(3):321 **(Ita)**

SECONDARY

Metastatic carcinoid tumor imaged with CT and a radiolabeled somatostatin analog: a case report. Lobrano MB, et al. **Am J Gastroenterol** 1997 Mar;92(3):513–5

Long-term results of continuous treatment with recombinant interferon-alpha in patients with metastatic carcinoid tumors--an antiangiogenic effect? Dirix LY, et al. **Anticancer Drugs** 1996 Feb;7(2):175–81

Images in cardiovascular medicine. Carcinoid heart disease. Gaos CM, et al. **Circulation** 1997 Mar 4;95(5):1346

Intracardiac metastases from neuroendocrine tumours. Drake WM, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):517–22

In-111 labeled octreotide imaging of a primary carcinoid lesion undetected by conventional imaging studies in a patient with "chronic pancreatitis". Kummar S, et al. **Clin Nucl Med** 1996 Aug;21(8):634–7

Liver metastases of digestive endocrine tumours: natural history and response to medical treatment. Skinazi F, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):673–8

Metastatic cutaneous carcinoid. McCracken GA, et al. **J Am Acad Dermatol** 1996 Dec;35(6):997–8

Atypical carcinoid of larynx: presentation with scalp metastases. Ereño C, et al. **J Laryngol Otol** 1997 Jan; 111(1):89–91

Acute liver necrosis induced by iodine-131-MIBG in the treatment of metastatic carcinoid tumors. Bongers V, et al. **J Nucl Med** 1997 Jul;38(7):1024–6

False-negative fluorine-18-FDG PET in metastatic carcinoid. Jadvar H, et al. **J Nucl Med** 1997 Sep; 38(9):1382–3

Vasoactive intestinal peptide and somatostatin receptor scintigraphy for differential diagnosis of hepatic carcinoid metastasis. Kurtaran A, et al. **J Nucl Med** 1997 Jun; 38(6):880–1

Carcinoid tumors of the orbit: a dilemma of diagnosis and treatment. El-Toukhy E, et al. **Ophthal Plast Reconstr Surg** 1996 Dec;12(4):279–83

Nonvalvular myocardial involvement in metastatic carcinoid disease. Davis G, et al. **Postgrad Med J** 1996 Dec; 72(854):751–2

Cryosurgical debulking of unresectable liver metastases for palliation of carcinoid syndrome. Johnson LB, et al. **Surgery** 1997 Apr;121(4):468–70

Treatment of liver metastases of carcinoid tumors. Ahlman H, et al. **World J Surg** 1996 Feb;20(2):196–202 (58 ref.)

Medical treatment of metastasizing carcinoid tumors. Arnold R. **World J Surg** 1996 Feb;20(2):203–7 (43 ref.)

Progression of metastases and symptom improvement from laparotomy in midgut carcinoid tumors. Makridis C, et al. **World J Surg** 1996 Sep;20(7):900–6; discussion 907

[Liver metastasis and nuclear medicine (letter)] Centi Colella AC. **Radiol Med (Torino)** 1997 Mar;93(3):321 **(Ita)**

[Liver metastasis from carcinoid: diagnostic imaging] De Santis M, et al. **Radiol Med (Torino)** 1996 Nov;92(5):594–9 (Eng. Abstr.) **(Ita)**

[Minute carcinoid tumor in the rectum with liver metastasis] Okumura Y, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:307–12 (Eng. Abstr.) **(Jpn)**

[An unusual course of carcinoid tumor] Boguslavskaia MI, et al. **Klin Med (Mosk)** 1996;74(7):59–60 **(Rus)**

[Therapy of metastasizing carcinoid tumor] Kiňová S, et al. **Bratisl Lek Listy** 1996 Dec;97(12):713–6 (Eng. Abstr.) **(Slo)**

SECRETION

Pathophysiology and clinical aspects of the ectopic GH-releasing hormone syndrome. Losa M, et al. **Clin Endocrinol (Oxf)** 1997 Aug;47(2):123–35 (93 ref.)

Intractable hypercalcaemia due to parathyroid hormone-related peptide secretion by a carcinoid tumour. Mantzoros CS, et al. **Clin Endocrinol (Oxf)** 1997 Mar; 46(3):373–5

Characterizing an ectopic secreting carcinoid with indium-111-DTPA-D-Phe-pentetreotide. Briganti V, et al. **J Nucl Med** 1997 May;38(5):711–4

Bronchopulmonary carcinoid tumors associated with Cushing's syndrome: a more aggressive variant of typical carcinoid. Shrager JB, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):367–75

Secretory patterns of tryptophan metabolites in midgut carcinoid tumor cells. Westberg G, et al. **Neurochem Res** 1997 Aug;22(8):977–83

[A malignant serotonin-producing carcinoid of the pancreas] Gubergrits NB, et al. **Lik Sprava** 1995 Mar-Apr;(3-4):174–7 (Eng. Abstr.) **(Rus)**

[A case report. Bronchial ACTH producing carcinoid] Bergmark V, et al. **Lakartidningen** 1997 Mar 12; 94(11):964–6 **(Swe)**

SURGERY

Liver transplantation in metastatic carcinoid tumour. Coperchini ML, et al. **Aust N Z J Med** 1996 Oct; 26(5):702–4 (7 ref.)

The role of surgery in patients with advanced midgut carcinoid tumours. Ahlman H. **Digestion** 1996;57 Suppl 1:86–7

More effective endoscopic resection with a two-channel colonoscope for carcinoid tumors of the rectum. Iishi H, et al. **Dis Colon Rectum** 1996 Dec;39(12):1438–9

Effectiveness of local endoscopic resection of rectal carcinoid tumors. Higaki S, et al. **Endoscopy** 1997 Mar;29(3):171–5

Endoscopic resection of rectal carcinoid tumors using aspiration lumpectomy. Imada-Shirakata Y, et al. **Endoscopy** 1997 Jan;29(1):34–8

Endosonography-guided endoscopic resection of duodenal carcinoid tumor. Nishimori I, et al. **Endoscopy** 1997 Mar; 29(3):214–7

Carcinoid tumors of the duodenum: report of three cases treated by endoscopic resection. Yamamoto C, et al. **Endoscopy** 1997 Mar;29(3):218–21

Carcinoid tumor of the common bile duct. Kopelman D, et al. **HPB Surg** 1996;10(1):41–3

Octreotide and ketoconazole for persistent ectopic ACTH Cushing's disease due to mediastinal carcinoid. Parthiban A, et al. **J Assoc Physicians India** 1995 Feb;43(2):140

Carcinoid tumour of the lung. Shah R, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):187–9

Multiple gastric carcinoid tumors: endoscopic management. González Ramírez A, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):75–7

Video-assisted thoracoscopic pneumonectomy for bronchial carcinoid tumor in a 14-year-old girl. Craig SR, et al. **J Pediatr Surg** 1996 Dec;31(12):1724–6

Video-assisted thoracoscopic pneumonectomy for bronchial carcinoid tumor in a 14-year-old girl [letter] Weissberg D. **J Pediatr Surg** 1997 Jul;32(7):1135

Lobectomy by video-assisted thoracic surgery for a hilar bronchial carcinoid tumor. Watanabe M, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):476–9 (6 ref.)

Treatment of liver metastases of carcinoid tumors. Ahlman H, et al. **World J Surg** 1996 Feb;20(2):196–202 (58 ref.)

Management of carcinoid tumors of the stomach, duodenum, and pancreas. Akerström G. **World J Surg** 1996 Feb; 20(2):173–82 (128 ref.)

Value of somatostatin receptor scintigraphy for preoperative localization of carcinoids. Kisker O, et al. **World J Surg** 1996 Feb;20(2):162–7

Surgical management for carcinoid tumors of small bowel, appendix, colon, and rectum. Stinner B, et al. **World J Surg** 1996 Feb;20(2):183–8 (26 ref.)

Survival of patients with disseminated midgut carcinoid tumors after aggressive tumor reduction. Wängberg B, et al. **World J Surg** 1996 Sep;20(7):892–9; discussion 899

[A case of carcinoid of the large intestine with an atypical course and rare location] Damianov N, et al. **Khirurgiia (Sofiia)** 1996;49(2):57–8 **(Bul)**

[Carcinoid tumors and neuroendocrine carcinomas of the stomach. Prognosis and therapeutic management. Study of 6 cases] Moreaux J, et al. **Ann Chir** 1997;51(2):121–9 (Eng. Abstr.) **(Fre)**

[Excision of small carcinoid tumor of the stomach under laparoscopy: value of combined intraoperative gastroscopy (letter)] Christophe M, et al. **Gastroenterol Clin Biol** 1996; 20(8-9):704–5 **(Fre)**

[Surgical therapy of neuroendocrine tumors of the thymus] Cupisti K, et al. **Chirurg** 1997 Feb;68(2):136–40 (Eng. Abstr.) **(Ger)**

[Therapy of carcinoids of the stomach] Becker HD, et al. **Langenbecks Arch Chir** 1996;381(1):18–22 (34 ref.) (Eng. Abstr.) **(Ger)**

[Bronchopulmonary carcinoids: surgical therapy and prognosis] Huwer H, et al. **Pneumologie** 1996 Nov; 50(11):786–9 (Eng. Abstr.) **(Ger)**

[Mycotic aortic aneurysm after appendectomy] Rhomberg M, et al. **Vasa** 1996;25(1):90–3 (Eng. Abstr.) **(Ger)**

[Intestinal carcinoid. A propos of a case] Bajardi G, et al. **Minerva Chir** 1996 Dec;51(12):1117–20 (Eng. Abstr.) **(Ita)**

[A case of primary hepatic carcinoid. A report of its surgical resolution] Cianchi F, et al. **Minerva Chir** 1997 Apr; 52(4):433–7 (14 ref.) (Eng. Abstr.) **(Ita)**

[Multifocal carcinoid of the stomach] Poletti EM, et al. **Minerva Chir** 1996 May;51(5):341–6 (Eng. Abstr.) **(Ita)**

[Carcinoids in emergency surgery] Scarabelli R, et al. **Minerva Chir** 1996 Dec;51(12):1039–42 (Eng. Abstr.) **(Ita)**

[Thymic carcinoid: a case report of complete surgical resection using internal mammary artery (IMA) retractor] Jinno T, et al. **Kyobu Geka** 1997 Jun;50(6):515–9 (Eng. Abstr.) **(Jpn)**

[A case report of thymic carcinoid] Nakanishi K, et al. **Kyobu Geka** 1997 Mar;50(3):247–50 (Eng. Abstr.) **(Jpn)**

[A case of carcinoid tumor of left superior trunk treated by sleeve upper lobectomy] Sode Y, et al. **Kyobu Geka** 1996 Aug;49(9):780–2 (Eng. Abstr.) **(Jpn)**

[Recurrent thymic carcinoid tumor with multiple endocrine neoplasia syndrome--a case report] Kanno R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):213–9 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of carcinoid bronchial tumor] Drogset JO, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10; 117(15):2177–8 (Eng. Abstr.) **(Nor)**

[Nonepithelial tumors of the stomach] Petrov VP, et al. **Khirurgiia (Mosk)** 1997;(3):25–8 (Eng. Abstr.) **(Rus)**

[Endoscopic laser destruction of gastric carcinoid] Romanov VA, et al. **Khirurgiia (Mosk)** 1996;(2):121–2 **(Rus)**

[Role of endoscopic laser surgery in the surgical treatment of bronchial tumors] Grubnik VV, et al. **Klin Khir** 1996; (10):3–5 **(Rus)**

[The surgical treatment of patients with tumors of the pancreas and pancreatoduodenal area] Shalimov AA, et al. **Klin Khir** 1996;(9):3–6 **(Rus)**

THERAPY

Gut neuroendocrine tumors. Warner RR. **Curr Ther Endocrinol Metab** 1997;6:606–14 (4 ref.)

Liver metastases of digestive endocrine tumours: natural history and response to medical treatment. Skinazi F, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):673–8

[Treatment of carcinoid tumors of the digestive tract] Votte A, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1031–42 (122 ref.) **(Fre)**

[Therapy of metastasizing carcinoid tumor] Kiňová S, et al. **Bratisl Lek Listy** 1996 Dec;97(12):713–6 (Eng. Abstr.) **(Slo)**

ULTRASONOGRAPHY

Endoscopic ultrasound for rectal carcinoid tumors [letter] Bhutani MS. **Am J Gastroenterol** 1996 Dec;91(12):2651

Images in cardiovascular medicine. Carcinoid heart disease. Gaos CM, et al. **Circulation** 1997 Mar 4;95(5):1346

[Ultrasonographic study of rectal carcinoid tumors] Nomura M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov; 93(11):797–805 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Sex steroid receptor expression in 'carcinoid' tumours of the breast. Birsak CA, et al. **Breast Cancer Res Treat** 1996; 40(3):243–9

VETERINARY

Three cases of carcinoid in the equine nasal cavity and maxillary sinuses: histologic and immunohistochemical features. van Maanen C, et al. **Vet Pathol** 1996 Jan; 33(1):92–5

CARCINOMA

Advanced laryngeal cancer T3–T4 in Sweden: a retrospective study 1986–1990. Survival and locoregional control related to treatment. Finizia C, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):906–12

"In vivo" and "in vitro" antitumoral action of Larrea divaricata Cav. Anesini C, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(1):33–40

Adrenal carcinoma. Wrenn K. **Am J Med** 1996 Nov; 101(5):565

Tumour fragment in the airway detected by intraoperative fibreoptic examination. Sakura S, et al. **Anaesth Intensive Care** 1996 Apr;24(2):265–6

Leptomeningeal carcinomatosis. Presenting features and prognostic factors [see comments] Balm M, et al. **Arch Neurol** 1996 Jul;53(7):626–32. Comment in: Arch Neurol 1996 Jan;54(1):16–7.

Increased numbers of long-term culture-initiating cells in the apheresis product of patients randomized to receive increasing doses of stem cell factor administered in combination with chemotherapy and a standard dose of granulocyte colony-stimulating factor. Weaver A, et al. **Blood** 1996 Nov 1;88(9):3323–8

The National Cancer Data Base report on early stage invasive vulvar carcinoma. The American College of Surgeons Commission on Cancer and the American Cancer Society. Creasman WT, et al. **Cancer** 1997 Aug 1;80(3):505–13

The National Cancer Data Base report on carcinoma of the anus. Myerson RJ, et al. **Cancer** 1997 Aug 15;80(4):805–15

Pituitary carcinoma: a clinicopathologic study of 15 cases. Pernicone PJ, et al. **Cancer** 1997 Feb 15;79(4):804–12

Response of community pharmacists to potential oral carcinoma. Leonard MS, et al. **J Am Pharm Assoc (Wash)** 1996 Mar;NS36(3):203–5

Supraglottic laryngeal or base of tongue cancer involving vallecula. Ampil FL, et al. **J La State Med Soc** 1996 Oct; 148(10):435–9

Establishment of xenografts and cell lines from well-differentiated human thyroid carcinoma. Lin JD, et al. **J Surg Oncol** 1996 Oct;63(2):112–8

Epithelial ovarian carcinoma [see comments] Kristensen GB, et al. **Lancet** 1997 Jan 11;349(9045):113–7 (76 ref.). Comment in: Lancet 1997 Mar 22;349(9055):878.

Pancreatic carcinoma. Rosewicz S, et al. **Lancet** 1997 Feb 15;349(9050):485–9 (86 ref.)

Prostatic tumor implantation in the nude mouse via a perineal approach. Garzotto M, et al. **Prostate** 1997 Sep 15; 33(1):60–3

Functioning parathyroid carcinoma: clinicopathologic features and rational treatment. Obara T, et al. **Semin Surg Oncol** 1997 Mar–Apr;13(2):134–41 (65 ref.)

Carcinoma of the colon in children. Buyukpamukcu M, et al. **Turk J Pediatr** 1996 Jan–Mar;38(1):51–8

[Urinary bladder tumors. Report of the Danish Bladder-cancer Committee 1993] **Ugeskr Laeger** 1997;159 Suppl 1:1–14 **(Dan)**

[A case of anaplastic carcinoma of the thyroid. Clinico-pathological and therapeutic aspects and review of the literature] Martino G, et al. **G Chir** 1996 Oct; 17(10):515–22 (Eng. Abstr.) **(Ita)**

[Brain metastases in patients with malignant ovarian epithelial tumors] Gabriele A, et al. **Minerva Ginecol** 1996 Oct; 48(10):415–21 (Eng. Abstr.) **(Ita)**

[Adrenal cortex neoplasms in children: diagnostic and therapeutic difficulties] Caldarella A, et al. **Pathologica** 1996 Jun;88(3):175–80 (Eng. Abstr.) **(Ita)**

[Post-cystectomy pelvic recurrence (clinical conference)] Jiménez Cruz JF, et al. **Actas Urol Esp** 1996 Jun;20(6):593–6 **(Spa)**

[Primary cancer of the gallbladder] Diaz JA, et al. **Rev Gastroenterol Peru** 1996 May–Aug;16(2):142–7 (Eng. Abstr.) **(Spa)**

BLOOD

Is heparin the ideal anticoagulant in patients with a high plasma leukocyte elastase level? [letter; comment] Suzuki S, et al. **Blood Coagul Fibrinolysis** 1996 Apr;7(3):363–4. Comment on: Blood Coagul Fibrinolysis 1995 Sep;6(6):527–30.

A quantitative reverse transcriptase polymerase chain reaction-based assay to detect carcinoma cells in peripheral blood. Helfrich W, et al. **Br J Cancer** 1997;76(1):29–35

Detection of epidermal growth factor receptor in the serum of gastric carcinoma patients. Choi JH, et al. **Cancer** 1997 May 15;79(10):1879–83

Prostate carcinoma staging. Clinical utility of bone alkaline phosphatase in addition to prostate specific antigen. Morote J, et al. **Cancer** 1996 Dec 1;78(11):2374–8

Pyridinium crosslinks in the monitoring of patients with bone metastases from carcinoma of the breast. Walne AJ, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):30–4

Plasma dehydroepiandrosterone sulfate levels in patients with hyperfunctioning and non-hyperfunctioning adrenal tumors before and after adrenal surgery. Tóth M, et al. **Eur J Endocrinol** 1997 Mar;136(3):290–5

Preoperative value of CA 125 as a reflection of tumor grade in epithelial ovarian cancer. But I, et al. **Gynecol Oncol** 1996 Nov;63(2):166–72

Detection of squamous-cell carcinoma antigen-expressing tumour cells in blood by reverse transcriptase-polymerase chain reaction in cancer of the uterine cervix. Stenman J, et al. **Int J Cancer** 1997 Feb 20;74(1):75–80

Clinical usefulness of serum cytokeratin 19 fragment as a tumor marker for lung cancer. Maeda Y, et al. **Intern Med** 1996 Oct;35(10):764–71

Phase II trial of oral altretamine for relapsed ovarian carcinoma: evaluation of defining response by serum CA125. Rustin GJ, et al. **J Clin Oncol** 1997 Jan;15(1):172–6

Immunomagnetic techniques for the enrichment and detection of isolated breast carcinoma cells in bone marrow and peripheral blood. Naume B, et al. **J Hematother** 1997 Apr;6(2):103–14

Neuroendocrine differentiation in carcinomas of the prostate: do neuroendocrine serum markers reflect immunohistochemical findings? Angelsen A, et al. **Prostate** 1997 Jan 1;30(1):1–6

PSA-based screening for prostate cancer in asymptomatic younger males: pilot study in blood donors. Reissigl A, et al. **Prostate** 1997 Jan 1;30(1):20–5

von Willebrand factor antigen in blood plasma of patients with urinary bladder carcinoma. Ziętek Z, et al. **Thromb Res** 1996 Sep 1;83(5):399–402

Endogenously labeled thyroid hormones (131I-T3/T4) in sera of patients with differentiated thyroid carcinoma. Lukinac L, et al. **Thyroid** 1996 Jun;6(3):201–6

[PSA screening and the incidence of prostatic carcinoma] Niesel T, et al. **Strahlenther Onkol** 1996 Oct;172(10):582–3 **(Ger)**

BLOOD SUPPLY

Quantification of vascular density and of lumen and vessel morphology in endometrial carcinoma. Evaluation of their relation to serum levels of tissue polypeptide-specific antigen and CA-125. Willemse F, et al. **Anal Quant Cytol Histol** 1997 Feb;19(1):1–7

Angiogenesis in endometrial carcinoma. Kaku T, et al. **Cancer** 1997 Aug 15;80(4):741–7

Incidence of extramural venous invasion in colorectal carcinoma: findings with a new technique. Dirschmid K, et al. **Hum Pathol** 1996 Nov;27(11):1227–30

Increase in immunoreactivity for endothelin-1 in blood vessels of rat liver metastases: experimental sarcoma and carcinoma. Loesch A, et al. **J Anat** 1997 Aug;191 (Pt 2):291–9

Microvessel count: an indicator of poor outcome in medullary thyroid carcinoma but not in other types of thyroid carcinoma. Fontanini G, et al. **Mod Pathol** 1996 Jun;9(6):636–41

Low vascular density indicates poor response to radiotherapy in small glottic carcinomas. Jenssen N, et al. **Pathol Res Pract** 1996 Nov;192(11):1090–4

Vascular density is a predictor of cancer-specific survival in prostatic carcinoma. Lissbrant IF, et al. **Prostate** 1997 Sep 15;33(1):38–45

CEREBROSPINAL FLUID

Central nervous system Hodgkin's disease relapsing with eosinophilic pleocytosis. Hauke RJ, et al. **Leuk Lymphoma** 1996 Mar;21(1–2):173–5

CHEMICALLY INDUCED

d-Limonene inhibits N-nitrosobis(2-oxopropyl)amine induced hamster pancreatic carcinogenesis. Nakaizumi A, et al. **Cancer Lett** 1997 Jul 15;117(1):99–103

Chronic toxicity and carcinogenicity studies of 2-methylnaphthalene in B6C3F1 mice. Murata Y, et al. **Fundam Appl Toxicol** 1997 Mar;36(1):90–3

Estrogen replacement therapy and risk of epithelial ovarian cancer. Risch HA. **Gynecol Oncol** 1996 Nov;63(2):254–7

Ovarian cancer after successful ovulation induction: a case report. Hull ME, et al. **J Reprod Med** 1996 Jan;41(1):52–4 (16 ref.)

[Possible etiologic role of occupational exposure to arsenic anhydride in a case of bladder carcinoma] La Paglia G, et al. **G Ital Med Lav Ergon** 1996 Jan–May;18(1–3):97–100 (Eng. Abstr.) **(Ita)**

CHEMISTRY

Malignant chondroid syringoma: immunohistopathology. Metzler G, et al. **Am J Dermatopathol** 1996 Feb;18(1):83–9

Epitope-mapped monoclonal antibodies as tools for functional and morphological analyses of the human urokinase receptor in tumor tissue. Luther T, et al. **Am J Pathol** 1997 Apr;150(4):1231–44

Epithelial-myoepithelial carcinoma of the salivary glands: a clinico-pathologic, immunohistochemical and DNA flow cytometric study of three cases. Tralongo V, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):761–8

Estrogen and progesterone receptors in endometrial cancer. Clinicopathological correlations and prognostic significance. Nyholm HC. **APMIS Suppl** 1996;65:5–33 (186 ref.)

Immunohistochemically detected HER-2/neu-expression and prognosis in endometrial carcinoma. Backe J, et al. **Arch Gynecol Obstet** 1997;259(4):189–95

Lovastatin effects on human breast carcinoma cells. differential toxicity of an adriamycin-resistant derivative and influence on selenocysteine tRNAS. Diamond AM, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):345–55

p53 protein accumulation and p53 gene mutation in esophageal carcinoma. A molecular and immunohistochemical study with clinicopathologic correlations. Coggi G, et al. **Cancer** 1997 Feb 1;79(3):425–32

Expression of adrenocorticotrophic hormone receptor mRNA in human adrenocortical neoplasms: correlation with P450scc expression. Reincke M, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):619–26

Distribution of estrogen receptor heterogeneity in growing MCF-7 cells measured by quantitative microscopy. Palmari J, et al. **Cytometry** 1997 Jan 1;27(1):26–35

c-erb B-2 and p53 expression in breast cancer fine needle aspirates. Tiniakos DG, et al. **Cytopathology** 1996 Jun; 7(3):178–86

c-erbB-2 expression in FNAB smears and matched surgical specimens of breast cancer. Troncone G, et al. **Diagn Cytopathol** 1996 Mar;14(2):135–9

Elevated expression of retinoic acid receptor-alpha (RAR alpha) in estrogen-receptor-positive breast carcinomas as detected by immunohistochemistry. Han QX, et al. **Diagn Mol Pathol** 1997 Feb;6(1):42–8

Lactadherin (formerly BA46), a membrane-associated glycoprotein expressed in human milk and breast carcinomas, promotes Arg-Gly-Asp (RGD)-dependent cell adhesion. Taylor MR, et al. **DNA Cell Biol** 1997 Jul; 16(7):861–9

Cathepsin D content in malignant tumours of corpus uteri [letter] Osmak M, et al. **Eur J Cancer** 1997 Apr; 33(4):699–700

Fibrolamellar carcinoma of the liver: composition of the extracellular matrix and expression of cell-matrix and cell-cell adhesion molecules. Scoazec JY, et al. **Hepatology** 1996 Nov;24(5):1128–36

Cytokeratin demonstration in thick breast tissue slices. Davies JD, et al. **Histochem J** 1997 May;29(5):409–12

Immunolocalization of oestrogen and progesterone receptors in prostatic hyperplasia and carcinoma. Hiramatsu M, et al. **Histopathology** 1996 Feb;28(2):163–8

Hyalinizing trabecular carcinoma of thyroid gland. McCluggage WG, et al. **Histopathology** 1996 Apr; 28(4):357–62

Mucin carbohydrate antigens (T, Tn, and sialyl-Tn) in human ovarian carcinomas: relationship with histopathology and prognosis. Ghazizadeh M, et al. **Hum Pathol** 1997 Aug; 28(8):960–6

Mucinous tumors of the vermiform appendix and ovary, and pseudomyxoma peritonei: histogenetic implications of cytokeratin 7 expression. Guerrieri C, et al. **Hum Pathol** 1997 Sep;28(9):1039–45

Expression of cyclin D1 and c-Ki-ras gene product in human epithelial ovarian tumors. Hung WC, et al. **Hum Pathol** 1996 Dec;27(12):1324–8

The predictive power of semiquantitative immunohistochemical assessment of p53 and c-erb B-2 in lymph node-negative breast cancer. O'Malley FP, et al. **Hum Pathol** 1996 Sep;27(9):955–63

Immunohistochemical detection of p21waf1/cip1/sdi1 and p53 proteins in formalin-fixed, paraffin-embedded tissue sections of colorectal carcinoma. Sasaki K, et al. **Hum Pathol** 1996 Sep;27(9):912–6

E-cadherin gene alterations are rare events in thyroid tumors. Soares P, et al. **Int J Cancer** 1997 Jan 6;70(1):32–8

p53 immunoreactivity in non-melanoma skin cancer from immunosuppressed and immunocompetent individuals: a comparative study of 246 tumours. Khorshid SM, et al. **J Cutan Pathol** 1996 Jun;23(3):229–33

Vla and alpha 6 beta 4 integrin expression in neuroendocrine carcinomas of the skin (their xenografts on nude mice and a corresponding primary culture). Perrin C, et al. **J Cutan Pathol** 1996 Jun;23(3):223–8

Lack of relationship between the expression of Hsp27 heat shock estrogen receptor-associated protein and estrogen receptor or progesterone receptor status in male breast carcinoma. Muñoz de Toro MM, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5–6):277–84

Cell-surface levels of human carcinoembryonic antigen are inversely correlated with colonocyte differentiation in colon carcinogenesis. Ilantzis C, et al. **Lab Invest** 1997 May; 76(5):703–16

Comparison of two monoclonal antibodies for the detection

of estrogen receptors in primary breast carcinomas. Nedergaard L, et al. **Pathol Res Pract** 1996 Oct; 192(10):983–8

Immunohistochemical pattern of Bcl-2- and PTHrP-positive cells in primary, in recurrent and in carcinoma in pleomorphic adenomas. Sunardhi-Widyaputra S, et al. **Pathol Res Pract** 1995 Dec;191(12):1186–91

The androgen receptor in prostate cancer. Trapman J, et al. **Pathol Res Pract** 1996 Jul;192(7):752–60 (79 ref.)

Immortalized and tumorigenic adult human prostatic epithelial cell lines: characteristics and applications Part 2. Tumorigenic cell lines. Webber MM, et al. **Prostate** 1997 Jan 1;30(1):58–64 (46 ref.)

Molecular characterization of cellular proteins from colorectal tumors. Szymczyk P, et al. **Tumori** 1996 Jul–Aug;82(4):376–81

Immunocytochemical and immunoelectron microscopical analysis of BCL2 expression in thyroid oxyphilic tumors. Lombardi L, et al. **Ultrastruct Pathol** 1997 Jan–Feb; 21(1):33–9

[A comparative study of hormone receptors in breast cancer with quantitative immunocytochemistry and biochemistry] Marcot I, et al. **Bull Cancer** 1997 Jun;84(6):613–8 (27 ref.) (Eng. Abstr.) **(Fre)**

CLASSIFICATION

The terminology of "Carcinoma cell leukemia"—is an alternative needed? [letter; comment] Sivakumaran M. **Blood** 1997 Jul 1;90(1):472. Comment on: Blood 1996 Sep 15;88(6):2355–7.

An enhanced prognostic system for clinically localized carcinoma of the prostate [published erratum appears in Cancer 1997 Jul 15;80(2):350] Pisansky TM, et al. **Cancer** 1997 Jun 1;79(11):2154–61

Carcinoma of the endometrium: do the nuclear grade and DNA ploidy provide more prognostic information than do the FIGO and WHO classifications? Nordström B, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):191–201

[The postoperative T classification (pT) of primary vocal cord carcinomas and its significance for clinical classification (cT)] Becker A. **Strahlenther Onkol** 1997 May;173(5):292–3 **(Ger)**

[Epithelial tumors of the thymus gland] Sarkisov DS, et al. **Arkh Patol** 1996 Jul–Aug;58(4):8–15 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Use of computerized morphometric analyses of endometrial hyperplasias in the prediction of coexistent cancer. Dunton CJ, et al. **Am J Obstet Gynecol** 1996 May;174(5):1518–21

Perforated colorectal carcinomas. Mandava N, et al. **Am J Surg** 1996 Sep;172(3):236–8

Primary hyperparathyroidism due to parathyroid carcinoma. Mendoza V, et al. **Arch Med Res** 1997 Summer;28(2):303–6

Adrenal carcinoma and hypertension presenting with catatonic stupor. Steinberg P. **Aust N Z J Psychiatry** 1996 Feb;30(1):146–9

Autoimmune paraneoplastic cerebellar degeneration in ovarian carcinoma patients treated with plasmapheresis and immunoglobulin. A case report. David YB, et al. **Cancer** 1996 Nov 15;78(10):2153–6

Management of malignant esophagotracheal fistulas with airway stenting and double stenting [see comments] Freitag L, et al. **Chest** 1996 Nov;110(5):1155–60. Comment in: Chest 1996 Nov;110(5):1133–5.

Cushing's syndrome secondary to ectopic ACTH secretion from a primary ovarian carcinoma. Ball SG, et al. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):775–8

Radiotherapy for extreme hypertrophic pulmonary osteoarthropathy associated with malignancy. Yeo W, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):195–7

Carcinoma of the right side of the colon and celiac disease. Casserly I, et al. **Dig Dis Sci** 1997 Apr;42(4):862–4 (16 ref.)

Elevated serum transforming growth factor beta 1 level in primary lung cancer patients with finger clubbing. Hirakata Y, et al. **Eur J Clin Invest** 1996 Sep;26(9):820–3

Perforated colonic carcinoma presenting as epididymo-orchitis and Fournier's gangrene. Gould SW, et al. **Eur J Surg Oncol** 1997 Aug;23(4):367–8

Nodular intra-abdominal panniculitis: an accompaniment of colorectal carcinoma and diverticular disease. Bak M. **Histopathology** 1996 Jul;29(1):21–7

Anaplastic thyroid carcinoma presenting as a pharyngeal mass with ball-valve type obstruction of the larynx. Lee WC, et al. **J Laryngol Otol** 1996 Nov;110(11):1078–80

Undifferentiated carcinoma of the nasopharynx and leukemoid reaction: report of case with literature review. Saussez S, et al. **J Laryngol Otol** 1997 Jan;111(1):66–9 (12 ref.)

Hemoperitoneum due to carcinomatosis in the liver of a CAPD patient. Fine A, et al. **Perit Dial Int** 1996 Mar–Apr; 16(2):181–3

Ptosis in an elderly man. Yusuf SW, et al. **Postgrad Med J** 1997 Jan;73(855):55–7

Hard to swallow (Bernard Collinsworth, 12/11/11–). Goldblatt D, et al. **Semin Neurol** 1996 Dec;16(4):387–8

Carcinoma gallbladder: atypical presentations and unusual associations. Haribhakti SP, et al. **Trop Gastroenterol** 1997 Jan–Mar;18(1):32–4

[Metastatic spinal cord compression in patients with lung cancer] Bach F, et al. **Ugeskr Laeger** 1996 Sep 30; 158(40):5606–10 (Eng. Abstr.) **(Dan)**

[Intense and rapidly progressive dyspnea] Leleu O, et al. **Rev Mal Respir** 1997 Apr;14(2):151–3 **(Fre)**

[The effective therapy of the hot flashes during hormone withdrawal treatment in patients with advanced prostatic carcinoma] Kliesch S, et al. **Dtsch Med Wochenschr** 1997 Jul 25;122(30):940–5 (64 ref.) **(Ger)**

[Lymphedema after breast carcinoma. A study of 5868 cases] Schünemann H, et al. **Dtsch Med Wochenschr** 1997 Apr 25;122(17):536–41 (Eng. Abstr.) **(Ger)**

[The acute toxicity of the simultaneous radiochemotherapy of rectal carcinoma] Rödel C, et al. **Strahlenther Onkol** 1997 Aug;173(8):415–21 (Eng. Abstr.) **(Ger)**

[An oropharyngeal–esophageal scintigraphic study of deglutition] Galli J, et al. **Acta Otorhinolaryngol Ital** 1996 Oct;16(5):412–9 (Eng. Abstr.) **(Ita)**

[Sarcoidosis and prostatic carcinoma (letter)] Ros E, et al. **An Med Interna** 1996 Feb;13(2):95–6 **(Spa)**

[Syncope associated with glossopharyngeal neuralgia and parapharyngeal tumor] Rumoroso JR, et al. **Rev Esp Cardiol** 1996 Sep;49(9):704–6 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Is magnetic resonance imaging the method of choice in the diagnosis of recurrent rectal carcinoma [editorial; comment] Krestin GP. **Abdom Imaging** 1997 May–Jun; 22(3):343–5. Comment on: Abdom Imaging 1997 May–Jun;22(3):338–42.

MRI of recurrent rectosigmoid carcinoma [see comments] Markus J, et al. **Abdom Imaging** 1997 May–Jun;22(3):338–42 . Comment in: Abdom Imaging 1997 May–Jun;22(3):343–5.

Epithelial–myoepithelial carcinoma of the parotid gland. Silvers AR, et al. **AJNR Am J Neuroradiol** 1996 Mar; 17(3):560–2

Radiology in invasive cervical cancer. Hricak H, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1101–8 (66 ref.)

Clinical value of CA 15-3, mucin-like carcinoma-associated antigen, tumor polypeptide antigen, and carcinoembryonic antigen in monitoring early breast cancer patients. Pectasides D, et al. **Am J Clin Oncol** 1996 Oct;19(5):459–64

Proliferating cell nuclear antigen and MIB-1. An alternative to classic prognostic indicators in renal cell carcinomas? Haitel A, et al. **Am J Clin Pathol** 1997 Feb;107(2):229–35

Adequate tissue sampling of prostate core needle biopsies. Renshaw AA. **Am J Clin Pathol** 1997 Jan;107(1):26–9

Safety of esophagoscopy in the irradiated esophagus. Wax MK, et al. **Ann Otol Rhinol Laryngol** 1997 Apr; 106(4):297–300

Surgical biopsy findings in patients with atypical hyperplasia diagnosed by stereotaxic core needle biopsy. Tocino I, et al. **Ann Surg Oncol** 1996 Sep;3(5):483–8

Tumor marker concentrations in normal and malignant tissues of colorectal cancer patients and their prognostic relevance. Gebauer G, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2731–4

Detection of occult liver metastases in colorectal cancer by measurement of biliary carcinoembryonic antigen. Novell F, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2743–6

p53 protein expression as prognostic factor in human pancreatic cancer. Sato Y, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2779–88

Adrenal carcinoma presenting as Conn's syndrome [letter] Taylor W, et al. **Aust N Z J Med** 1997 Apr;27(2):201–2

Prognostic factors in gastric carcinoma [letter; comment] Carneiro F, et al. **Br J Cancer** 1997;76(2):278. Comment on: Br J Cancer 1996 Sep;74(5):766–72.

CAM 17.1—a new diagnostic marker in pancreatic cancer. Gansauge F, et al. **Br J Cancer** 1996 Dec;74(12):1997–2002

p53 and Rb1 protein expression: are they prognostically useful in colorectal cancer? Poller DN, et al. **Br J Cancer** 1997;75(1):87–93

Ultrasound assessment of residual abnormalities following primary chemotherapy for breast cancer. Seymour MT, et al. **Br J Cancer** 1997;76(3):371–6

Dynamic MR imaging of invasive breast cancer: correlation with tumour grade and other histological factors. Mussurakis S, et al. **Br J Radiol** 1997 May;70(833):446–51

MRI of breast cancer: influence of chemotherapy on sensitivity. Rieber A, et al. **Br J Radiol** 1997 May; 70(833):452–8

Sporadic ampullary hamartoma simulating cancer. Moyana TN, et al. **Can J Surg** 1997 Jun;40(3):227–30

Prognostic factors for thyroid carcinoma. A population-based study of 15,698 cases from the Surveillance, Epidemiology and End Results (SEER) program 1973–1991. Gilliland FD, et al. **Cancer** 1997 Feb 1;79(3):564–73

Detection of prostate carcinoma using prostate specific antigen, its density, and the density of the transition zone in Japanese men with intermediate serum prostate specific antigen concentrations. Gohji K, et al. **Cancer** 1997 May 15;79(10):1969–76

A strong prognostic variable in endometrial carcinoma: flow cytometric S-phase fraction. Kaleli S, et al. **Cancer** 1997 Mar 1;79(5):944–51

Survival of women ages 40–49 years with breast carcinoma according to method of detection. McPherson CP, et al. **Cancer** 1997 May 15;79(10):1923–32

Characterization of the DD23 tumor-associated antigen for bladder cancer detection and recurrence monitoring. Marker Network for Bladder Cancer. Bonner RB, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):971–8

Overexpression of cyclin D1 in human pancreatic carcinoma is associated with poor prognosis. Gansauge S, et al. **Cancer Res** 1997 May 1;57(9):1634–7

Diagnosis of prostate cancer: comparison of serum prostate specific antigen, digital rectal examination and transrectal ultrasonography. Tsui KH, et al. **Chang Keng I Hsueh** 1997 Mar;20(1):23–8

Oncogenes and growth factor receptors as diagnostic and prognostic markers in precancers and cancers of the oral mucosa. Burkhardt A. **Curr Top Pathol** 1996;90:223–39 (136 ref.)

Localization of p53 and proliferating cell nuclear antigen in fine-needle aspirates of benign and primary malignant tumors of the human breast: an immunocytochemical study using supersensitive monoclonal antibodies and the biotin-streptavidin-amplified method. Alexiev BA. **Diagn Cytopathol** 1996 Nov;15(4):277–81

Cytokeratins 20 and 7 in the differential diagnosis of metastatic carcinoma in cytologic specimens. Sack MJ, et al. **Diagn Cytopathol** 1997 Feb;16(2):132–6

Cytopathology of retrograde renal pelvis brush specimens: an analysis of 40 cases with emphasis on collecting duct carcinoma and low-intermediate grade transitional cell carcinoma. Zaman SS, et al. **Diagn Cytopathol** 1996 Nov; 15(4):312–21

High-sensitivity detection of minimal residual breast carcinoma using the polymerase chain reaction and primers for cytokeratin 19. Moscinski LC, et al. **Diagn Mol Pathol** 1996 Sep;5(3):173–80

Cecal ischemia mimicking carcinoma [letter; comment] Rodríguez-Sanjuán JC, et al. **Dis Colon Rectum** 1997 Jul; 40(7):867–8. Comment on: Dis Colon Rectum 1996 Sep;39(9):1026–30.

Eccrine porocarcinoma. Whitt P, et al. **Ear Nose Throat J** 1996 Aug;75(8):536–8

Detection and localization of early laryngeal cancer with laser-induced fluorescence: preliminary report. Zargi M, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S113–6

The impact of prostate-specific antigen, its density and the Gleason score in the prediction of extracapsular disease in prostate carcinoma. Akdaş A, et al. **Eur Urol** 1997; 31(3):311–6

Clinical prognostic criteria for later diagnosis of prostate carcinoma in patients with initial isolated prostatic intraepithelial neoplasia. Zlotta AR, et al. **Eur Urol** 1996; 30(2):249–55 (30 ref.)

Spontaneous rupture of an internal carotid artery aneurysm diagnosed as a peritonsillar abscess, a tonsillar and epipharyngeal carcinoma with metastasis. Karov I. **Folia Med (Plovdiv)** 1996;38(2):65–7

Clinical importance and prognostic value of the image-DNA-cytometry for patients with gastric cancer. Stratmann H, et al. **Gen Diagn Pathol** 1996 Oct; 142(2):97–100

Isolated tumor cells in the bone marrow: value of a new diagnostic method in the TNM-staging of solid tumors. Werner M, et al. **Gen Diagn Pathol** 1996 Jun;142(1):1–6 (53 ref.)

Comparison of three faecal occult blood tests in the detection of colorectal neoplasia. Hope RL, et al. **Gut** 1996 Nov; 39(5):722–5

Diagnostic accuracy of stereotactic core biopsy in a mammographic breast cancer screening programme. Dahlstrom JE, et al. **Histopathology** 1996 May;28(5):421–7

Bcl-2 and p53 expression in node-negative breast carcinoma: a study with long-term follow-up. Barbareschi M, et al. **Hum Pathol** 1996 Nov;27(11):1149–55

Morphological and biological characteristics of mammogram-detected invasive breast cancer. Moezzi M, et al. **Hum Pathol** 1996 Sep;27(9):944–8

Value of Ki-67 immunostaining in preoperative biopsies of carcinomas of the lung. Viberti L, et al. **Hum Pathol** 1997 Feb;28(2):189–92

Proliferating cell nuclear antigen immunostaining in breast carcinoma and its relationship to clinical and pathological variables. Agarwal S, et al. **Indian J Pathol Microbiol** 1997 Jan;40(1):11–6

Osteoclastoma like giant cell tumour of the thyroid—a variant of undifferentiated carcinoma—a case report. Patil SP, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):169–70

The important prognostic value of Ki-67 expression as determined by image analysis in breast cancer. Pietiläinen T, et al. **J Cancer Res Clin Oncol** 1996;122(11):687–92

Limitations of reverse-transcriptase polymerase chain reaction analyses for detection of micrometastatic epithelial cancer cells in bone marrow. Zippelius A, et al. **J Clin Oncol** 1997 Jul;15(7):2701–8

Immediate assessment of fine needle aspiration cytology of lung. Stewart CJ, et al. **J Clin Pathol** 1996 Oct; 49(10):839–43

Dynamic MRI using a surface coil in chronic cholecystitis and gallbladder carcinoma: radiologic and histopathologic correlation. Demachi H, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):643–51

MRI for staging of gastric carcinoma: first results of an experimental prospective study. Düx M, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):66–72

Endometrial carcinoma: dynamic MRI with turbo-FLASH technique. Joja I, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):878–87

Value of MR mammography in the detection and exclusion of recurrent breast carcinoma. Rieber A, et al.

J Comput Assist Tomogr 1997 Sep–Oct;21(5):780–4
Spindle cell hemangioendothelioma: a case presentation and literature review of a rare lower extremity tumor. Patel SV, et al. **J Foot Ankle Surg** 1996 Jul–Aug;35(4):309–11 (8 ref.)
Nasopharyngeal carcinoma: clinical trends. Indudharan R, et al. **J Laryngol Otol** 1997 Aug;111(8):724–9
Differences in diagnostic criteria for gastric carcinoma between Japanese and western pathologists [see comments] Schlemper RJ, et al. **Lancet** 1997 Jun 14;349(9067):1725–9 . Comment in: Lancet 1997 Jun 14;349(9067):1711–2.
19–year–old man with headache and confusion. Razmi RM, et al. **Mayo Clin Proc** 1997 Apr;72(4):373–6
Recommendations for the reporting of resected large intestinal carcinomas. Association of Directors of Anatomic and Surgical Pathology [see comments] **Mod Pathol** 1996 Jan;9(1):73–6. Comment in: Mod Pathol 1996 Dec;9(12):1177–8.
Choroid plexus carcinoma: a report of two cases and review of the literature. Geerts Y, et al. **Neuropediatrics** 1996 Jun; 27(3):143–8 (65 ref.)
Thyroid cancers. II. Medullary, anaplastic, lymphoma, sarcoma, squamous cell. Austin JR, et al.
Otolaryngol Clin North Am 1996 Aug;29(4):611–27 (86 ref.)
Diagnostic pitfalls in the cytological interpretation of breast cancer. Greenberg M. **Pathology** 1996 May;28(2):113–21 (41 ref.)
Neuroendocrine differentiation in carcinomas of the prostate: do neuroendocrine serum markers reflect immunohistochemical findings? Angelsen A, et al.
Prostate 1997 Jan 1;30(1):1–6
PSA–based screening for prostate cancer in asymptomatic younger males: pilot study in blood donors. Reissigl A, et al. **Prostate** 1997 Jan 1;30(1):20–5
Detection of recurrent nasopharyngeal carcinoma: MR imaging versus CT. Chong VF, et al. **Radiology** 1997 Feb; 202(2):463–70
Sinonasal undifferentiated carcinoma: CT and MR imaging of an uncommon neoplasm of the nasal cavity. Phillips CD, et al. **Radiology** 1997 Feb;202(2):477–80
Diagnosis and surgical treatment of pancreatic carcinoma. Puchalski Z, et al. **Rocz Akad Med Bialymst** 1996; 41(2):210–7
Ovarian epithelial borderline tumor and carcinoma in young women. Morimura Y, et al. **Tohoku J Exp Med** 1996 Dec; 180(4):319–26
DNA ploidy and MYC DNA amplification in ovarian carcinomas. Correlation with p53 and bcl–2 expression, proliferative activity and prognosis. Diebold J, et al.
Virchows Arch 1996 Nov;429(4–5):221–7
Differential reactivity of HBME–1 and CD15 antibodies in benign and malignant thyroid tumours. Preferential reactivity with malignant tumours. Miettinen M, et al.
Virchows Arch 1996 Nov;429(4–5):213–9
[Laparoscopy and laparoscopic echography in the diagnosis and staging of gastrointestinal carcinomas] Krüstev N, et al. **Khirurgiia (Sofiia)** 1996;49(2):39–42 (Eng. Abstr.) **(Bul)**
[Interleukin–6 and acute phase reactants in the diagnosis of ovarian carcinoma] Svoboda B, et al. **Ceska Gynekol** 1996 Aug;61(4):234–9 (Eng. Abstr.) **(Cze)**
[Undifferentiated carcinoma of the rhinopharynx: an immunohistochemical study of adhesion molecules] de Vincentiis M, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996; 117(3):215–7 (Eng. Abstr.) **(Fre)**
[The synchronous occurrence of acute myeloid leukemia and kidney carcinoma] Bohle W, et al.
Dtsch Med Wochenschr 1997 Jun 6;122(23):743–6 (15 ref.) (Eng. Abstr.) **(Ger)**
[The status of diagnosis of Barrett esophagus. An analysis of 1000 histologically diagnosed cases (see comments)] Grunewald M, et al. **Dtsch Med Wochenschr** 1997 Apr 4; 122(14):427–31 (Eng. Abstr.). Comment in: Dtsch Med Wochenschr 1997 Apr 4;122(14):425–6. **(Ger)**
[The prostate–specific antigen in the early recognition of prostate carcinoma] Wolff JM, et al.
Dtsch Med Wochenschr 1996 Nov 29;121(48):1508–14 (63 ref.) **(Ger)**
[Magnetic resonance tomography and endosonography in the preoperative staging of advanced rectal carcinomas after hyperthermoradiochemotherapy] Schröder RJ, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Mar;166(3):199–205 (Eng. Abstr.) **(Ger)**
[The differentiation of adrenal gland tumors: an improvement in accuracy by a combination of fat–sensitive, T2–weighted and contrast–enhanced MR sequences] Zimmermann GG, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Aug;167(2):153–9 (Eng. Abstr.) **(Ger)**
[Hip pain] Lehmann S, et al. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):261–3 **(Ger)**
[Clinical aspects and preoperative diagnosis in differentiated thyroid gland carcinoma] Mann K, et al. **Zentralbl Chir** 1997;122(4):246–51 (41 ref.) (Eng. Abstr.) **(Ger)**
[Panendoscopy in the research of multiple malignant synchronous occult tumors in patients with cancer of the upper aero–digestive tract] Ferri T, et al.
Acta Otorhinolaryngol Ital 1996 Feb;16(1):47–51 (Eng. Abstr.) **(Ita)**
[Effectiveness and monitoring of breast cancer screening programs] Paci E, et al. **Epidemiol Prev** 1995 Dec; 19(65):310–7 (Eng. Abstr.) **(Ita)**
[Parsimony and secondary cancer prevention (editorial)] Segnan N. **Epidemiol Prev** 1995 Dec;19(65):293–6 **(Ita)**
[Nonpalpable lesions of breast carcinoma in elderly patients] Caruso U, et al. **Minerva Chir** 1997 May;52(5):619–24 (23 ref.) (Eng. Abstr.) **(Ita)**
[Stomach neoplasm with pulmonary dissemination—diagnostic difficulties] Jassem E, et al.
Pneumonol Alergol Pol 1996;64(5–6):335–9 (Eng. Abstr.) **(Pol)**
[Kidney cancer: the basic symptoms taking into account the histological form] Tomusiak TL, et al. **Klin Khir** 1994; (12):10–2 (Eng. Abstr.) **(Rus)**
[Diagnostic and prognostic significance of oncogenes in pulmonary carcinoma] Andelić G, et al.
Vojnosanit Pregl 1996 Sep–Oct;53(5):393–7 (44 ref.) **(Scr)**
[The early diagnosis of prostate cancer in a selected population. The usefulness of PSAD, PSAD ad. and age–adjusted PSA in patients with a PSA between 4–10 ngr./ml.] Allepuz Losa CA, et al. **Actas Urol Esp** 1997 Apr;21(4):344–53 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Cytologic assessment before and after intraperitoneal hyperthermic chemotherapy for peritoneal carcinomatosis. Loggie BW, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1154–8
Design of topoisomerase inhibitors to overcome MDR1–mediated drug resistance. Chen AY, et al.
Adv Pharmacol 1994;29B:245–56 (30 ref.)
Allergic contact dermatitis from mitomycin C. Gomez Torrijos E, et al. **Allergy** 1997 Jun;52(6):687
Commentary on "Adequacy of chemotherapy prior to cytoreductive surgery in testicular carcinoma" by B. J. Kennedy, Jane L. Torkelson, and Elwin E. Fraley in this issue pp. 541–545 [editorial; comment] Kagan AR.
Am J Clin Oncol 1996 Dec;19(6):636. Comment on: Am J Clin Oncol 1996 Dec;19(6):541–5.
Adequacy of chemotherapy prior to cytoreductive surgery in testicular carcinoma [see comments] Kennedy BJ, et al.
Am J Clin Oncol 1996 Dec;19(6):541–5. Comment in: Am J Clin Oncol 1996 Dec;19(6):636.
Preliminary report of outpatient weekly adjuvant chemotherapy for high–risk nasopharyngeal carcinoma. Lin JC, et al. **Am J Clin Oncol** 1996 Dec;19(6):624–7
Pilot study of concurrent chemotherapy and radiotherapy for stage IV nasopharyngeal cancer. Lin JC, et al.
Am J Clin Oncol 1997 Feb;20(1):6–10
Paclitaxel as salvage therapy in advanced pretreated ovarian cancer: a phase II study. Nardi M, et al.
Am J Clin Oncol 1997 Jun;20(3):230–2
CEA, CA 19–9, and CA–50 in monitoring gastric carcinoma. Pectasides D, et al. **Am J Clin Oncol** 1997 Aug;20(4):348–53
5–Fluorouracil, epirubicin, and mitomycin C versus 5–fluorouracil, epirubicin, mitomycin C, and leucovorin in advanced gastric carcinoma. A randomized trial. Tsavaris NB, et al. **Am J Clin Oncol** 1996 Oct;19(5):517–21
Infusional chemotherapy combined with recombinant human granulocyte colony stimulating factor: advantages and limitations. Weiss AJ, et al. **Am J Clin Oncol** 1997 Feb; 20(1):63–8 (30 ref.)
Combined concomitant boost radiotherapy and chemotherapy in stage III–IV head and neck carcinomas: a comparison of toxicity and treatment results with those observed after radiotherapy alone. Allal AS, et al.
Ann Oncol 1997 Jul;8(7):681–4
Single agent activity of oxaliplatin in heavily pretreated advanced epithelial ovarian cancer. Chollet P, et al.
Ann Oncol 1996 Dec;7(10):1065–70
Phase I/II study of the combination of carboplatin and paclitaxel as first–line chemotherapy in patients with advanced epithelial ovarian cancer. du Bois A, et al.
Ann Oncol 1997 Apr;8(4):355–61
Glutathione S–transferase activity in epithelial ovarian cancer: association with response to chemotherapy and disease outcome [see comments] Ferrandina G, et al.
Ann Oncol 1997 Apr;8(4):343–50. Comment in: Ann Oncol 1997 Apr;8(4):314–5.
A randomized trial of five versus eight courses of cisplatin or carboplatin in advanced epithelial ovarian carcinoma. A North Thames Ovary Group Study. Lambert HE, et al. **Ann Oncol** 1997 Apr;8(4):327–33
Synthesis and anti–cancer activity of 2,6–disubstituted N–methylpiperidine derivatives and their N–oxides. Henderson ND, et al. **Anticancer Drug Des** 1996 Sep; 11(6):421–38
Treatment of residual metastases with Na[trans–RuCl4 (DMSO)Im] and ruthenium uptake by tumor cells. Bergamo A, et al. **Anticancer Drugs** 1996 Aug;7(6):697–702
A phase I trial of 5–fluorouracil, leucovorin and interferon–alpha 2b administered by 24 h infusion in metastatic colorectal carcinoma. Cascinu S, et al.
Anticancer Drugs 1996 Jul;7(5):520–4
Messenger RNA expression of resistance proteins and related factors in human ovarian carcinoma cell lines resistant to doxorubicin, taxol and cisplatin. Masanek U, et al.
Anticancer Drugs 1997 Feb;8(2):189–98
Effect of S9788 on the efficiency of doxorubicin in vivo and in vitro in medullary thyroid carcinoma xenograft. Massart C, et al. **Anticancer Drugs** 1996 May;7(3):321–30
Chemosensitivity of anaplastic thyroid carcinoma and poorly differentiated thyroid carcinoma. Asakawa H, et al.
Anticancer Res 1997 Jul–Aug;17(4A):2757–62
Paracetamol counteracts docosahexaenoic acid–induced growth inhibition of A–427 lung carcinoma cells and enhances tumor cell proliferation in vitro. Schønberg SA, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2443–8
Pharmacological effects of 5–fluorouracil microspheres on peritoneal carcinomatosis in animals. Hagiwara A, et al.
Br J Cancer 1996 Nov;74(9):1392–6
A clinical and pharmacokinetic study of the combination of carboplatin and paclitaxel for epithelial ovarian cancer. Siddiqui N, et al. **Br J Cancer** 1997;75(2):287–94
MRI of breast cancer: influence of chemotherapy on sensitivity. Rieber A, et al. **Br J Radiol** 1997 May; 70(833):452–8
Five–day infusion fluorouracil plus vinorelbine i.v. in metastatic pretreated breast cancer patients. Zambetti M, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):255–60
Radical chemoradiotherapy for elderly patients with bladder carcinoma invading muscle. Arias F, et al. **Cancer** 1997 Jul 1;80(1):115–20
Progesterone induces apoptosis and up–regulation of p53 expression in human ovarian carcinoma cell lines. Bu SZ, et al. **Cancer** 1997 May 15;79(10):1944–50
A phase III trial comparing anastrozole (1 and 10 milligrams), a potent and selective aromatase inhibitor, with megestrol acetate in postmenopausal women with advanced breast carcinoma. Arimidex Study Group. Buzdar AU, et al.
Cancer 1997 Feb 15;79(4):730–9
A phase I report of paclitaxel dose escalation combined with a fixed dose of carboplatin in the treatment of head and neck carcinoma. Dunphy FR, et al. **Cancer** 1997 May 15; 79(10):2016–23
Luteinizing hormone–releasing hormone agonist triptorelin in combination with cytotoxic chemotherapy in patients with advanced ovarian carcinoma. A prospective double blind randomized trial. Decapeptyl Ovarian Cancer Study Group. Emons G, et al. **Cancer** 1996 Oct 1;78(7):1452–60
Uracil and tegafur modulated with leucovorin: an effective regimen with low toxicity for the treatment of colorectal carcinoma in the elderly. Oncopaz Cooperative Group. Feliu J, et al. **Cancer** 1997 May 15;79(10):1884–9
Improved mortality rate of gastric carcinoma patients with peritoneal carcinomatosis treated with intraperitoneal hyperthermic chemoperfusion combined with surgery. Fujimoto S, et al. **Cancer** 1997 Mar 1;79(5):884–91
Treatment of advanced adenocarcinomas of the exocrine pancreas and the gallbladder with 5–fluorouracil, high dose levofolinic acid and oral hydroxyurea on a weekly schedule. Results of a multicenter study of the Southern Italy Oncology Group (G.O.I.M.). Gebbia V, et al.
Cancer 1996 Sep 15;78(6):1300–7
Mitoxantrone, 5–fluorouracil, and high dose leucovorin (NFL) versus intravenous cyclophosphamide, methotrexate, and 5–fluorouracil (CMF) in first–line chemotherapy for patients with metastatic breast carcinoma: a randomized phase II trial. Hainsworth JD, et al. **Cancer** 1997 Feb 15;79(4):740–8
Nasopharyngeal carcinoma in childhood and adolescence: concept and preliminary results of the cooperative GPOH study NPC–91. Gesellschaft für Pädiatrische Onkologie und Hämatologie. Mertens R, et al. **Cancer** 1997 Sep 1; 80(5):951–9
Enhanced induction of apoptosis of human gastric carcinoma cells after preoperative treatment with 5–fluorouracil. Sugamura K, et al. **Cancer** 1997 Jan 1;79(1):12–7
Phase II study of pyrazoloacridine in patients with advanced colorectal carcinoma. Zalupski MM, et al.
Cancer Chemother Pharmacol 1997;40(3):225–7
The role of chemotherapy in the management of celomic epithelial carcinoma of the ovary. Thigpen T, et al.
Cancer Invest 1997;15(3):277–87 (36 ref.)
Antitumor and radiosensitizing effects of (E)–2'–deoxy–2'–(fluoromethylene) cytidine, a novel inhibitor of ribonucleoside diphosphate reductase, on human colon carcinoma xenografts in nude mice. Sun LQ, et al. **Cancer Res** 1997 Sep 15;57(18):4023–8
Effect of carboplatin based combination chemotherapy on ovarian cancer. Feng Y, et al. **Chin Med J (Engl)** 1996 May;109(5):349–52
Dose dependent in vivo inhibition of human colorectal cancer (LoVo) by the gastrin receptor antagonist, CI–988. Romani R, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):438–40
Pathological assessment in patients receiving primary medical therapy for breast cancer [editorial] Trott PA.
Cytopathology 1996 Apr;7(2):75–7 (16 ref.)
Historical control bias: adjuvant chemotherapy in esophageal cancer. Bhansali MS, et al. **Dis Esophagus** 1997 Jan; 10(1):51–4
Enhanced effectiveness of photodynamic therapy with laser light fractionation in patients with esophageal cancer. Messmann H, et al. **Endoscopy** 1997 May;29(4):275–80
Bone mineral density in patients receiving suppressive doses of thyroxine for differentiated thyroid carcinoma. Görres G, et al. **Eur J Nucl Med** 1996 Jun;23(6):690–2
Subcutaneous metastasis from an ovarian carcinoma disappeared following tamoxifen therapy. Flam F, et al.
Eur J Obstet Gynecol Reprod Biol 1996 Feb;64(2):225–6
Neoadjuvant intra–arterial polychemotherapy of locally advanced rectal cancer. Braun EM, et al.
Eur J Surg Oncol 1997 Jun;23(3):228–32
Enhanced in vitro cytotoxicity of idarubicin compared to epirubicin and doxorubicin in rat prostate carcinoma cells. Siegsmund MJ, et al. **Eur Urol** 1997;31(3):365–70

Effect of low-dose oral etoposide on serum CA-125 in patients with advanced epithelial ovarian cancer. de Jong RS, et al. **Gynecol Oncol** 1997 Aug;66(2):197-201

A phase 2 study with epirubicin as second-line treatment of patients with advanced epithelial ovarian cancer. Havsteen H, et al. **Gynecol Oncol** 1996 Nov;63(2):210-5

"MECCA": a developmental, dose-intensive, non-cross-resistant platinum-based chemotherapy for advanced ovarian cancer. Hoskins PJ, et al. **Gynecol Oncol** 1996 Dec;63(3):345-51

Long-term follow-up of gonadotrophin-releasing hormone analog treatment for recurrent endometrial cancer. Jeyarajah AR, et al. **Gynecol Oncol** 1996 Oct;63(1):47-52

Cisplatin/5-fluorouracil treatment of recurrent cervical carcinoma: a phase II study with long-term follow-up. Kaern J, et al. **Gynecol Oncol** 1996 Mar;60(3):387-92

Chemotherapy plus sequential hormonal therapy for advanced and recurrent endometrial carcinoma: a phase II study. Pinelli DM, et al. **Gynecol Oncol** 1996 Mar; 60(3):462-7

Hydroxyurea, 5-fluorouracil infusion, and cisplatin adjunct to radiation therapy in cervical carcinoma: a phase I-II trial of the Gynecologic Oncology Group. Stehman FB, et al. **Gynecol Oncol** 1997 Aug;66(2):262-7

Palliative treatment with low-dose continuous infusion 5-fluorouracil in recurrent and/or metastatic undifferentiated nasopharyngeal carcinoma type. Fandi A, et al. **Head Neck** 1997 Jan;19(1):41-7

The effects of chemotherapy on breast cancer tissue in locally advanced breast cancer [see comments] Aktepe F, et al. **Histopathology** 1996 Jul;29(1):63-7. Comment in: Histopathology 1997 Apr;30(4):397-8.

PEG-hemoglobin: effects on tumor oxygenation and response to chemotherapy. Teicher BA, et al. **In Vivo** 1997 Jul-Aug;11(4):301-11

Intra-tumoral application of a heregulin-exotoxin-a fusion protein causes rapid tumor regression without adverse systemic or local effects. Groner B, et al. **Int J Cancer** 1997 Mar 17;70(6):682-7

Leukemia inhibitory factor induces apoptosis and proliferation of human carcinoma cells through different oncogene pathways. Kamohara H, et al. **Int J Cancer** 1997 Aug 7;72(4):687-95

Sensitization by interleukin-1alpha of carboplatinum anti-tumor activity against human ovarian (NIH:OVCAR-3) carcinoma cells in vitro and in vivo. Wang Z, et al. **Int J Cancer** 1996 Nov 27;68(5):583-7

Characteristics of androgen-independent growth of androgen-responsive Shionogi carcinoma 115 cells. Tomioka S, et al. **Int J Urol** 1996 Jul;3(4):286-91

Cyproterone acetate monotherapy in advanced prostatic carcinoma. Kayigil O, et al. **Int Urol Nephrol** 1997; 29(2):213-20

Adjuvant therapy for resectable colorectal carcinoma with 5-fluorouracil portal vein infusion. Cremona F, et al. **J Chemother** 1997 Apr;9(2):140-1

Antineoplastic activity of taxol against human anaplastic thyroid carcinoma cell lines in vitro and in vivo. Ain KB, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3650-3

Establishment of anaplastic thyroid carcinoma cell lines useful for analysis of chemosensitivity and carcinogenesis. Asakawa H, et al. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3547-52

Phase I dose escalation of paclitaxel in patients with advanced ovarian cancer receiving cisplatin: rapid development of neurotoxicity is dose-limiting. Gordon AN, et al. **J Clin Oncol** 1997 May;15(5):1965-73

Carcinoma of unknown primary site: treatment with 1-hour paclitaxel, carboplatin, and extended-schedule etoposide. Hainsworth JD, et al. **J Clin Oncol** 1997 Jun;15(6):2385-93

High-dose chemotherapy with hematopoietic rescue in patients with stage III to IV ovarian cancer: long-term results [see comments] Legros M, et al. **J Clin Oncol** 1997 Apr;15(4):1302-8. Comment in: J Clin Oncol 1997 Apr;15(4):1291-3.

Phase II trial of oral altretamine for relapsed ovarian carcinoma: evaluation of defining response by serum CA125. Rustin GJ, et al. **J Clin Oncol** 1997 Jan;15(1):172-6

Dose-intensity in ovarian carcinoma: hold, enough? [editorial; comment] Thigpen JT. **J Clin Oncol** 1997 Apr; 15(4):1291-3. Comment on: J Clin Oncol 1997 Apr;15(4):1302-8. Comment on: J Clin Oncol 1997 Apr;15(4):1309-17.

Randomized trial comparing epirubicin, cisplatin, and fluorouracil versus fluorouracil, doxorubicin, and methotrexate in advanced esophagogastric cancer. Webb A, et al. **J Clin Oncol** 1997 Jan;15(1):261-7

The role of somatostatin analogues in complete antiandrogen treatment in patients with prostatic carcinoma. Vainas G, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):119-26

Combined infusional chemotherapy and radiation for esophageal carcinoma: a review. Chauveinc L, et al. **J Infus Chemother** 1995 Fall;5(4):215-7 (25 ref.)

Neoadjuvant chemotherapy with continuous infusion of cisplatin and 5-fluorouracil, with or without leucovorin, for locally advanced nasopharyngeal carcinoma. Fonseca E, et al. **J Infus Chemother** 1996 Fall;6(4):217-20

Enantioselective synthesis and antiproliferative properties of an ilmofosine analog, 2'-(trimethylammonio)ethyl 3-(hexadecyloxy)-2-(methoxymethyl)propyl phosphate, on epithelial cancer cell growth. Bittman R, et al. **J Med Chem** 1997 Apr 25;40(9):1391-5

Regression of established tumors expressing P-glycoprotein by combinations of adriamycin, cyclosporin derivatives, and MRK-16 antibodies. Watanabe T, et al. **J Natl Cancer Inst** 1997 Apr 2;89(7):512-8

Vinorelbine neurotoxicity: clinical and neurophysiological findings in 23 patients. Pace A, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):409-11

Large Shionogi tumors lose their responsiveness to flutamide treatment. Chen C, et al. **J Steroid Biochem Mol Biol** 1996 Aug;58(5-6):489-94

In vitro effects and localisation of the photosensitizers m-THPC and m-THPC MD on carcinoma cells of the human breast (MCF-7) and Chinese hamster fibroblasts (V-79). Hornung R, et al. **Lasers Surg Med** 1997; 20(4):443-50

Inhibition of pancreatic cancer growth by the dietary isoprenoids farnesol and geraniol. Burke YD, et al. **Lipids** 1997 Feb;32(2):151-6

Combined radiation and chemotherapy for advanced undifferentiated nasopharyngeal carcinoma in children. Strojan P, et al. **Med Pediatr Oncol** 1997 May;28(5):366-9

Intraperitoneal cisplatin plus intravenous cyclophosphamide versus intravenous cisplatin plus intravenous cyclophosphamide for stage III ovarian cancer [see comments] Alberts DS, et al. **N Engl J Med** 1996 Dec 26;335(26):1950-5. Comment in: N Engl J Med 1997 Jun 5;336(23):1674; discussion 1675. Comment in: N Engl J Med 1997 Jun 5;336(23):1675.

Retinoic acid treated P19 embryonal carcinoma cells differentiate into oligodendrocytes capable of myelination. Staines WA, et al. **Neuroscience** 1996 Apr;71(3):845-53

Predictors of bone mineral loss in patients with ovarian cancer treated with anticancer agents. Douchi T, et al. **Obstet Gynecol** 1997 Jul;90(1):12-5

Progestin treatment of atypical hyperplasia and well-differentiated carcinoma of the endometrium in women under age 40. Randall TC, et al. **Obstet Gynecol** 1997 Sep;90(3):434-40

Inhibitory action of reveromycin A on TGF-alpha-dependent growth of ovarian carcinoma BG-1 in vitro and in vivo. Takahashi H, et al. **Oncol Res** 1997; 9(1):7-11

A phase II study of carboplatin in nasopharyngeal carcinoma. Chi KH, et al. **Oncology** 1997 May-Jun;54(3):203-7

Paclitaxel plus ifosfamide in advanced ovarian cancer: a multicenter phase II study. Miglietta L, et al. **Oncology** 1997 Mar-Apr;54(2):102-7

Phase II study of UFT plus leucovorin in colorectal cancer. Pazdur R. **Oncology** 1997;54 Suppl 1:19-23

Experimental and clinical efficacy of 2', 2'-difluorodeoxycytidine (gemcitabine) against renal cell carcinoma. Rohde D, et al. **Oncology** 1996 Nov-Dec; 53(6):476-81

A randomized trial of cisplatin, vinblastine, and bleomycin versus cyclophosphamide, aclacinomycin, and cisplatin in epithelial ovarian cancer. Tokuhashi Y, et al. **Oncology** 1997 Jul-Aug;54(4):281-6

Intensive chemotherapy plus recombinant human granulocyte-colony stimulating factor support for distant metastatic nasopharyngeal carcinoma. A preliminary report. Wang CH, et al. **Oncology** 1997 Jan-Feb;54(1):34-7

Effects of the calciotrophic peptides calcitonin and parathyroid hormone on prostate cancer growth and chemotaxis. Ritchie CK, et al. **Prostate** 1997 Feb 15; 30(3):183-7

Single-agent paclitaxel as first-line treatment of metastatic breast cancer: the British experience. Davidson NG. **Semin Oncol** 1996 Oct;23(5 Suppl 11):6-10

Practical aspects of photodynamic therapy for superficial bladder carcinoma. Manyak MJ. **Tech Urol** 1995 Summer; 1(2):84-93 (25 ref.)

Cytotoxicity, accumulation, and efflux of cisplatin and its metabolites in human ovarian carcinoma cells. Shirazi FH, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):211-8

[The treatment of prostatic carcinoma with cyproterone acetate] Tsvetkov M, et al. **Khirurgiia (Sofiia)** 1996; 49(1):12-5 (Eng. Abstr.) **(Bul)**

[Evaluation of tumoral and lymph node response to neoadjuvant chemotherapy in undifferentiated nasopharyngeal carcinoma] Frikha M, et al. **Bull Cancer** 1997 Mar;84(3):273-6 (Eng. Abstr.) **(Fre)**

[Dose intensification of adjuvant chemotherapy in high-risk non-metastatic breast cancer: a critical review] Ganem G. **Bull Cancer** 1997 Jan;84(1):97-105 (84 ref.) (Eng. Abstr.) **(Fre)**

[Apropos of two recently published randomized trials of induction chemotherapy in nasopharyngeal and piriform sinus carcinoma] de Crevoisier R, et al. **Bull Cancer Radiother** 1996;83(3):174-6 **(Fre)**

[Supportive treatment with megestrol acetate during radio(chemo)therapy in patients with tumors in the head-neck area. A randomized study] Fietkau R, et al. **Strahlenther Onkol** 1996 Mar;172(3):162-8 (Eng. Abstr.) **(Ger)**

[Tuberculoid caseating necrosis of cervical lymph nodes. Ultrasound after radiochemotherapy of undifferentiated nasopharyngeal carcinoma] Friedrich RE, et al. **Ultraschall Med** 1996 Oct;17(5):253-6 (Eng. Abstr.) **(Ger)**

[Combination of irinotecan hydrochloride (CPT-11) and cisplatin as a new regimen for patients with advanced ovarian cancer] Sugiyama T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Sep;48(9):827-34 (Eng. Abstr.) **(Jpn)**

[Androgenic blockade in metastasizing prostatic carcinoma (letter; comment)] Tveter KJ. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1187. Comment on: Tidsskr Nor Laegeforen 1997 Jan 30;117(3):381-3. **(Nor)**

[The chemotherapy of metastases of unknown origin] Shparyk IaV, et al. **Lik Sprava** 1996 Jan-Feb;(1-2):45-52 (51 ref.) **(Ukr)**

[The antitumor action of antibiotics produced by Streptomyces globisporus 1912 studied in a model of Guérin's carcinoma in rats] Polishchuk LV, et al. **Mikrobiol Z** 1996 Mar-Apr;58(2):55-8 (Eng. Abstr.) **(Ukr)**

ENZYMOLOGY

Heterophilic antibodies produce spuriously elevated concentrations of the MB isoenzyme of creatine kinase in a selected patient population. Sosolik RC, et al. **Am J Clin Pathol** 1997 May;107(5):506-10

Telomerase activation in cervical cancer. Anderson S, et al. **Am J Pathol** 1997 Jul;151(1):25-31

Expression of mitogen-activated protein kinase phosphatase-1 in the early phases of human epithelial carcinogenesis. Loda M, et al. **Am J Pathol** 1996 Nov; 149(5):1553-64

Overexpression of focal adhesion kinase (p125FAK) in human colorectal carcinoma liver metastases: independence from c-src or c-yes activation. Han NM, et al. **Ann Surg Oncol** 1997 Apr-May;4(3):264-8

Increased thymidine kinase and thymidylate synthase activities in human epithelial ovarian carcinoma. Look KY, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2353-6

Proliferation-associated regulation of telomerase activity in human endometrium and its potential implication in early cancer diagnosis. Saito T, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):610-4

Human colon carcinoma cells synthesize and secrete alpha 1-proteinase inhibitor. Keppler D, et al. **Biol Chem Hoppe Seyler** 1996 May;377(5):301-11

Phosphoglycerate mutase, 2,3-bisphosphoglycerate phosphatase and enolase activity and isoenzymes in lung, colon and liver carcinomas. Durany N, et al. **Br J Cancer** 1997;75(7):969-77

Prognostic value of creatine kinase BB isoenzyme in epithelial ovarian carcinoma. Zarghami N, et al. **Can J Oncol** 1995 Sep;5(3):401-7

High level of urokinase-type plasminogen activator is a new prognostic marker in patients with gastric carcinoma. Cho JY, et al. **Cancer** 1997 Mar 1;79(5):878-83

Telomerase expression in respiratory epithelium during the multistage pathogenesis of lung carcinomas. Yashima K, et al. **Cancer Res** 1997 Jun 15;57(12):2373-7

Reductive activation of doxorubicin by xanthine dehydrogenase from EMT6 mouse mammary carcinoma tumors. Yee SB, et al. **Chem Biol Interact** 1997 May 2; 104(2-3):87-101

Telomerase activation in in vitro and in vivo cervical carcinogenesis. Zheng PS, et al. **Gynecol Oncol** 1997 Aug; 66(2):222-6

Immunohistochemical detection of a fatty acid synthase (OA-519) as a predictor of progression of prostate cancer. Shurbaji MS, et al. **Hum Pathol** 1996 Sep;27(9):917-21

Dual over-expression pattern of membrane-type metalloproteinase-1 in cancer and stromal cells in human gastrointestinal carcinoma revealed by in situ hybridization and immunoelectron microscopy. Ohtani H, et al. **Int J Cancer** 1996 Nov 27;68(5):565-70

Membrane-type matrix metalloproteinase expression and matrix metalloproteinase-2 activation in primary human ovarian epithelial carcinoma cells. Fishman DA, et al. **Invasion Metastasis** 1996;16(3):150-9

Telomerase activity in benign and malignant epithelial ovarian tumors. Wan M, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):437-41

Optimization of a classical aromatase activity assay and application in normal, adenomatous and malignant breast parenchyma. Dikkeschei LD, et al. **J Steroid Biochem Mol Biol** 1996 Nov;59(3-4):305-13

Mitogen-activated protein kinase and mitogen-activated kinase phosphatase-1 expression in the Noble rat model of sex hormone-induced prostatic dysplasia and carcinoma. Leav I, et al. **Lab Invest** 1996 Sep;75(3):361-70

Lung cancer risk in relation to mephenytoin hydroxylation activity. Benhamou S, et al. **Pharmacogenetics** 1997 Apr; 7(2):157-9

[An immunohistological study on expression of glutathione S-transferase pi (form) in human endometrial carcinoma] Satoh T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb;48(2):133-8 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

A consecutive series of patients with laryngeal carcinoma treated by primary irradiation. Greisen O, et al. **Acta Oncol** 1997;36(3):279-82

Malignant nasopharyngeal tumours in Iceland. Johannsson J, et al. **Acta Oncol** 1997;36(3):291-4

Colorectal carcinoma in different age groups: a population-based investigation. Fante R, et al. **Am J Gastroenterol** 1997 Sep;92(9):1505-9

Racial variation in lung cancer. Groeger AM, et al.

Anticancer Res 1997 Jul-Aug;17(4A):2843-8

Human papilloma virus 16-18 infection and cervical cancer in Mexico: a case-control study. Hernández-Avila M, et al. **Arch Med Res** 1997 Summer;28(2):265-71

Limited education as a risk factor in cervical cancer. Corral F, et al. **Bull Pan Am Health Organ** 1996 Dec;30(4):322-9

Lung carcinoma trends by histologic type in Vaud and Neuchâtel, Switzerland, 1974-1994. Levi F, et al. **Cancer** 1997 Mar 1;79(5):906-14

Trends in the stage specific incidence of prostate carcinoma in the Detroit metropolitan area, 1973-1994. Schwartz KL, et al. **Cancer** 1996 Sep 15;78(6):1260-6

Annual changes in colorectal carcinoma incidence in Japan. Analysis of survey data on incidence in Aomori Prefecture. Tamura K, et al. **Cancer** 1996 Sep 15;78(6):1187-94

A population-based study of endometrial cancer and familial risk in younger women. Cancer and Steroid Hormone Study Group. Gruber SB, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):411-7

Environmental and familial risk factors in relation to the colorectal adenoma--carcinoma sequence: results of a case-control study in Burgundy (France). Faivre J, et al. **Eur J Cancer Prev** 1997 Apr;6(2):127-31

Cancer of the colon and rectum in the first three decades of life. Shahrudin MD, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):441-4

Risk of cancer in migrants and their descendants in Israel: II. Carcinomas and germ-cell tumours. Parkin DM, et al. **Int J Cancer** 1997 Mar 17;70(6):654-60

A retrospective analysis of thyroid cancer. Ertürk E, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):245-9

Do Japanese statistics on gastric carcinoma need to be revised? [comment] Sakamoto J, et al. **Lancet** 1997 Jun 14; 349(9067):1711-2. Comment on: Lancet 1997 Jun 14;349(9067):1725-9.

Incidental eradication of Helicobacter pylori by antibiotics given for unrelated conditions and declining incidence of gastric carcinoma [letter; comment] Simini B. **Lancet** 1996 Nov 16;348(9038):1390-1. Comment on: Lancet 1997 Jan 4;349(9044):59.

Risk of leukaemia, carcinoma, and myelofibrosis in 32P- or chemotherapy-treated patients with polycythaemia vera: a prospective analysis of 682 cases. The "French Cooperative Group for the Study of Polycythaemias". Najean Y, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:111-9 (42 ref.)

Carcinoma of the lung after heart transplantation. Goldstein DJ, et al. **Transplantation** 1996 Sep 27;62(6):772-5 (18 ref.)

Epidemiologic and clinical evaluation of thyroid cancer in children from the Gomel region (Belarus). Antonelli A, et al. **World J Surg** 1996 Sep;20(7):867-71

[Carcinoma of the uterus] Bouda J. **Ceska Gynekol** 1996 Aug; 61(4):270-2 **(Cze)**

[Incidence and treatment of prostatic carcinoma in the region of the Comprehensive Cancer Center Amsterdam, 1989-1994 (see comments)] Visser O, et al. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2627-31 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Mar 8;141(10):495. **(Dut)**

[Symptoms, tumor stage and primary treatment in patients with colorectal carcinoma] Mezger J, et al. **Dtsch Med Wochenschr** 1997 May 30;122(22):703-8 (Eng. Abstr.) **(Ger)**

[Life style and occupational risk factors in bladder carcinoma] Bento MJ, et al. **Acta Med Port** 1997 Jan;10(1):39-45 (Eng. Abstr.) **(Por)**

[Differentiated carcinoma of the thyroid gland in an area of endemic goiter. Clinical study and prognostic correlation] Mato A, et al. **An Med Interna** 1996 Nov; 13(11):537-40 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

The National Cancer Data Base report on malignant epithelial ovarian carcinoma in African-American women. Parham G, et al. **Cancer** 1997 Aug 15;80(4):816-26

Lymphoepithelial carcinoma of salivary glands. Abdulla AK, et al. **Head Neck** 1996 Nov-Dec;18(6):577-81 (23 ref.)

ETIOLOGY

Bcl-2 expression in colorectal tumors: evidence of different pathways in sporadic and ulcerative-colitis-associated carcinomas. Ilyas M, et al. **Am J Pathol** 1996 Nov; 149(5):1719-26

Pathogenesis of breast carcinoma. Immunohistochemical study. Zółtowska A. **Arch Immunol Ther Exp (Warsz)** 1997; 45(1):101-8

Validity of self-reported hysterectomy and tubal sterilisation. The Survey of Women's Health Study Group. Green A, et al. **Aust N Z J Public Health** 1997 Jun;21(3):337-40

Susceptibility to endometrial cancer: influence of allelism at p53, glutathione S-transferase (GSTM1 and GSTT1) and cytochrome P-450 (CYP1A1) loci. Esteller M, et al. **Br J Cancer** 1997;75(9):1385-8

A case-control study of risk factors of nasopharyngeal carcinoma. Chen DL, et al. **Cancer Lett** 1997 Jul 15; 117(1):17-22

Carcinogenesis induced by UVA (365-nm) radiation: the dose-time dependence of tumor formation in hairless mice. de Laat A, et al. **Carcinogenesis** 1997 May;18(5):1013-20

What is the risk factor for metachronous colorectal carcinoma? Yamazaki T, et al. **Dis Colon Rectum** 1997 Aug; 40(8):935-8

Tamoxifen in postmenopausal women a safety perspective. Robinson E, et al. **Drugs Aging** 1996 May;8(5):329-37 (46 ref.)

Do cathepsins play a role in the biological behavior of gastric carcinoma? [letter; comment] David L, et al. **Hum Pathol** 1996 Sep;27(9):997-8. Comment on: Hum Pathol 1996 Feb;27(2):184-90.

Role of redchilli (Capsaicin) in the formation of colonic carcinoma. Chitra S, et al. **Indian J Pathol Microbiol** 1997 Jan;40(1):21-5

Esophageal carcinogenesis in the rat: zinc deficiency and alcohol effects on tumor induction. Newberne PM, et al. **Pathobiology** 1997;65(1):39-45

Spindle cell carcinoma of the tongue in a long-term survivor of childhood acute lymphoblastic leukemia. Shaw MP, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):79-83 (16 ref.)

Lung cancer in relation to exposure to silica dust, silicosis and uranium production in South African gold miners. Hnizdo E, et al. **Thorax** 1997 Mar;52(3):271-5

The Min mouse: a genetic model for intestinal carcinogenesis. Thompson MB. **Toxicol Pathol** 1997 May-Jun;25(3):329-32 (31 ref.)

[Influence factors in etiology of epithelial ovarian cancer] Zhang G, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Jun;31(6):357-60 (Eng. Abstr.) **(Chi)**

[Vasculitis with digital ischemic necrosis preceding diagnosis of malignancy] Gajewski P, et al. **Pol Arch Med Wewn** 1995 Oct;94(4):364-6 **(Pol)**

[Cancer from an ulcer or ulcerative stomach cancer? (a review of the literature and the authors' own observations)] Sadchikov VD, et al. **Lik Sprava** 1997 Mar-Apr;(2):137-41 (38 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

Human papillomavirus infection and TP53 gene mutation in primary cervical carcinoma. Kim JW, et al. **Acta Oncol** 1997;36(3):295-300

Expression of the MAGE-1, -2, -3, -4, and -6 genes in non-squamous cell carcinoma lesions of the head and neck. Lee KD, et al. **Acta Otolaryngol (Stockh)** 1996 Jul; 116(4):633-9

The step-by-step development of epithelial cancer: from phenotype to genotype. Farber E. **Adv Cancer Res** 1996; 70:21-48 (162 ref.)

Pleomorphic (giant and spindle cell) carcinoma is genetically distinct from adenocarcinoma and squamous cell carcinoma by K-ras-2 and p53 analysis. Przygodzki RM, et al. **Am J Clin Pathol** 1996 Oct;106(4):487-92

Expression of urokinase-type plasminogen activator, stromelysin 1, stromelysin 3, and matrilysin genes in lung carcinomas. Bolon I, et al. **Am J Pathol** 1997 May; 150(5):1619-29

Analysis of estrogen receptor messenger RNA in breast carcinomas from archival specimens is predictive of tumor biology. Carmeci C, et al. **Am J Pathol** 1997 May; 150(5):1563-70

Correlation of metastasis-related gene expression with metastatic potential in human prostate carcinoma cells implanted in nude mice using an in situ messenger RNA hybridization technique. Greene GF, et al. **Am J Pathol** 1997 May;150(5):1571-82

Fluorescence in situ hybridization evaluation of chromosome deletion patterns in prostate cancer. Huang SF, et al. **Am J Pathol** 1996 Nov;149(5):1565-73

Multiparametric in situ mRNA hybridization analysis to predict disease recurrence in patients with colon carcinoma. Kitadai Y, et al. **Am J Pathol** 1996 Nov;149(5):1541-51

Analysis of chromosome 17p13 (p53 locus) alterations in gastric carcinoma cells by dual-color fluorescence in situ hybridization. Kobayashi M, et al. **Am J Pathol** 1996 Nov; 149(5):1575-84

Different patterns of DNA alterations detected by restriction landmark genomic scanning in heterogeneous prostate carcinomas. Konishi N, et al. **Am J Pathol** 1997 Jan; 150(1):305-14

Transforming growth factor-beta receptor type 2 mutations and microsatellite instability in sporadic colorectal adenomas and carcinomas. Samowitz WS, et al. **Am J Pathol** 1997 Jul;151(1):33-5

p53 and K-ras mutational genotyping in pulmonary carcinosarcoma, spindle cell carcinoma, and pulmonary blastoma: implications for histogenesis. Holst VA, et al. **Am J Surg Pathol** 1997 Jul;21(7):801-11

Genotypic alterations in benign and malignant salivary gland tumors: histogenetic and clinical implications. el-Naggar AK, et al. **Am J Surg Pathol** 1997 Jun;21(6):691-7

Options of flow cytometric three-colour DNA measurements to quantitate EGFR in subpopulations of human bladder cancer. Brockhoff G, et al. **Anal Cell Pathol** 1996 Jun; 11(1):55-70

Topographic genotyping of colorectal carcinoma: from a molecular carcinogenesis model to clinical relevance. Pricolo VE, et al. **Ann Surg Oncol** 1997 Apr-May; 4(3):269-78 (89 ref.)

Genomic instability and poor prognosis associated with abnormal TP53 in breast carcinomas. Molecular and immunohistochemical analysis. Valgardsdottir R, et al. **APMIS** 1997 Feb;105(2):121-30

Study of C-polymorphisms of chromosomes 1, 9 and 16 in lymphocytes of patients with laryngeal carcinoma. Milàn C, et al. **Boll Soc Ital Biol Sper** 1996 Jul-Aug; 72(7-8):187-94

Cytogenetic comparisons of synchronous carcinomas and polyps in patients with colorectal cancer. Bardi G, et al. **Br J Cancer** 1997;76(6):765-9

DNA amplifications at 20q13 and MDM2 define distinct subsets of evolved breast and ovarian tumours. Courjal F, et al. **Br J Cancer** 1996 Dec;74(12):1984-9

Genomic alterations in nasopharyngeal carcinoma: loss of heterozygosity and Epstein-Barr virus infection. Mutirangura A, et al. **Br J Cancer** 1997;76(6):770-6

A detailed analysis of the role of K-ras gene mutation in the progression of colorectal adenoma. Ohnishi T, et al. **Br J Cancer** 1997;75(3):341-7

Evidence of gene deletion of p21 (WAF1/CIP1), a cyclin-dependent protein kinase inhibitor, in thyroid carcinomas. Shi Y, et al. **Br J Cancer** 1996 Nov; 74(9):1336-41

Loss of heterozygosity at the 5,10-methylenetetrahydrofolate reductase locus in human ovarian carcinomas. Viel A, et al. **Br J Cancer** 1997;75(8):1105-10

Muir-Torre syndrome: clinical features and molecular genetic analysis. Esche C, et al. **Br J Dermatol** 1997 Jun; 136(6):913-7

Technical approach for the study of the genetic evolution of breast cancer from paraffin-embedded tissue sections. Chen T, et al. **Breast Cancer Res Treat** 1996;39(2):177-85

BRCA2 hereditary breast cancer pathophenotype. Marcus JN, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):275-7

Immunohistochemically detected p53 and HER-2/neu expression and nuclear DNA content in familial epithelial ovarian carcinomas. Auranen A, et al. **Cancer** 1997 Jun 1;79(11):2147-53

p53 protein accumulation and p53 gene mutation in esophageal carcinoma. A molecular and immunohistochemical study with clinicopathologic correlations. Coggi G, et al. **Cancer** 1997 Feb 1;79(3):425-32

Near tetraploid prostate carcinoma. Methodologic and prognostic aspects. Forsslund G, et al. **Cancer** 1996 Oct 15;78(8):1748-55

Identification of allelic losses in benign, borderline, and invasive epithelial ovarian tumors and correlation with clinical outcome. Saretzki G, et al. **Cancer** 1997 Oct 1; 80(7):1241-9

Evidence of clonal divergence in colorectal carcinoma. Tollenaar RA, et al. **Cancer** 1997 Apr 1;79(7):1304-14

Activation of the K-ras oncogene in colorectal neoplasms is associated with decreased apoptosis. Ward RL, et al. **Cancer** 1997 Mar 15;79(6):1106-13

p53 mutations and occupational exposures in a surgical series of lung cancers. Harty LC, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec; 5(12):997-1003

Karyotypic analysis of 32 malignant epithelial ovarian tumors. Deger RB, et al. **Cancer Genet Cytogenet** 1997 Jul 15;96(2):166-73

Pigmented choroid plexus carcinoma: a cytogenetic and ultrastructural study. Dobin SM, et al. **Cancer Genet Cytogenet** 1997 Jul 1;96(1):37-41

Colorectal carcinogenesis: from chromosomal evolution pathways to molecular pathogenesis. Remvikos Y, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):63-73

p53 codon 72 polymorphism in nasopharyngeal carcinoma [letter] Yung WC, et al. **Cancer Genet Cytogenet** 1997 Feb; 93(2):181-2

Lack of a point mutation of human DNA topoisomerase II in multidrug-resistant anaplastic thyroid carcinoma cell lines. Satake S, et al. **Cancer Lett** 1997 Jun 3;116(1):33-9

Low-level c-myc amplification in human colonic carcinoma cell lines and tumors: a frequent, p53-independent mutation associated with improved outcome in a randomized multi-institutional trial. Augenlicht LH, et al. **Cancer Res** 1997 May 1;57(9):1769-75

High resolution analysis of chromosome 3p alterations in cervical carcinoma. Larson AA, et al. **Cancer Res** 1997 Sep 15;57(18):4082-90

Growth inhibition of human breast cancer cells by 1,25-dihydroxyvitamin D3 is accompanied by induction of apolipoprotein D expression. López-Boado YS, et al. **Cancer Res** 1997 Sep 15;57(18):4091-7

Differential loss of heterozygosity in the region of the Cowden locus within 10q22-23 in follicular thyroid adenomas and carcinomas. Marsh DJ, et al. **Cancer Res** 1997 Feb 1;57(3):500-3

Ovarian cancer genomic instability correlates with p53 frameshift mutations. Sood AK, et al. **Cancer Res** 1997 Mar 15;57(6):1047-9

Oncostatin M-mediated transcriptional suppression of the c-myc gene in breast cancer cells. Spence MJ, et al. **Cancer Res** 1997 Jun 1;57(11):2223-8

Mutations in PTEN are frequent in endometrial carcinoma but rare in other common gynecological malignancies. Tashiro H, et al. **Cancer Res** 1997 Sep 15;57(18):3935-40

The TSG101 tumor susceptibility gene is located in chromosome 11 band p15 and is mutated in human breast cancer. Li L, et al. **Cell** 1997 Jan 10;88(1):143-54

Esophagin cDNA cloning and characterization: a tissue-specific member of the small proline-rich protein family that is not expressed in esophageal tumors. Abraham JM, et al. **Cell Growth Differ** 1996 Jul;7(7):855-60

Gap junction genes Cx26 and Cx43 individually suppress the cancer phenotype of human mammary carcinoma cells and

restore differentiation potential. Hirschi KK, et al. **Cell Growth Differ** 1996 Jul;7(7):861–70

Genomic alterations in human prostate carcinoma cell lines by two–dimensional gel analysis. Konishi N, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Dec;42(8):1129–35

Heterogeneity of nuclear DNA pattern and its relationship with cell cycle activity parameters in multinodular goitre [see comments] Francia G, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):649–54. Comment in: Clin Endocrinol (Oxf) 1997 Jun;46(6):655.

Hyperproliferation and aneuploidy in multinodular goitre and thyroid follicular neoplasia: causal or incidental relationship?[comment] Jasani B. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):655. Comment on: Clin Endocrinol (Oxf) 1997 Jun;46(6):649–54.

Expression of c–ets–1 mRNA is associated with an invasive, EMT–derived phenotype in breast carcinoma cell lines. Gilles C, et al. **Clin Exp Metastasis** 1997 Sep;15(5):519–26

Cancer proneness of linear porokeratosis may be explained by allelic loss. Happle R. **Dermatology** 1997;195(1):20–5 (73 ref.)

Allelic imbalance and microsatellite instability in resected Duke's D colorectal cancer. Kochhar R, et al. **Diagn Mol Pathol** 1997 Apr;6(2):78–84

High–sensitivity detection of minimal residual breast carcinoma using the polymerase chain reaction and primers for cytokeratin 19. Moscinski LC, et al. **Diagn Mol Pathol** 1996 Sep;5(3):173–80

Genomic sequencing of DPC4 in the analysis of familial pancreatic carcinoma. Moskaluk CA, et al. **Diagn Mol Pathol** 1997 Apr;6(2):85–90

Variations in c–erbB–2 proto–oncogene status in breast cancer tumors as detected by two different cDNA probes. Pegoraro RJ, et al. **Diagn Mol Pathol** 1996 Sep;5(3):181–6

Sequence analysis of a 685–kb genomic region on chromosome 3p22–p21.3 that is homozygously deleted in a lung carcinoma cell line. Ishikawa S, et al. **DNA Res** 1997 Feb 28;4(1):35–43

In vitro studies of liposome–mediated gene transfer into head and neck cancer cell lines. Wollenberg B, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S130–2

Analysis of the Rb gene and cyclin–dependent kinase 4 inhibitor genes (p16INK4 and p15INK4B) in human ovarian carcinoma cell lines. Yaginuma Y, et al. **Exp Cell Res** 1997 Jun 15;233(2):233–9

Is the development of adenoma and carcinoma in proximal colon related to apolipoprotein E phenotype? [see comments] Kervinen K, et al. **Gastroenterology** 1996 Jun; 110(6):1785–90. Comment in: Gastroenterology 1996 Jun;110(6):2006–9.

Ki–ras mutations in stool and whole–gut lavage fluid [letter; comment] Potter MA, et al. **Gastroenterology** 1997 Apr; 112(4):1427–8. Comment on: Gastroenterology 1996 May;110(5):1346–53.

A transforming growth factor beta 1 receptor type II mutation in ulcerative colitis–associated neoplasms [see comments] Souza RF, et al. **Gastroenterology** 1997 Jan; 112(1):40–5. Comment in: Gastroenterology 1997 Jan;112(1):297–302.

Clinical importance and prognostic value of the image–DNA–cytometry for patients with gastric cancer. Stratmann H, et al. **Gen Diagn Pathol** 1996 Oct; 142(2):97–100

Mutational analysis of MLH1 and MSH2 in 25 prospectively–acquired RER+ endometrial cancers. Kowalski LD, et al. **Genes Chromosomes Cancer** 1997 Mar; 18(3):219–27

Overexpression of Stra13, a novel retinoic acid–inducible gene of the basic helix–loop–helix family, inhibits mesodermal and promotes neuronal differentiation of P19 cells. Boudjelal M, et al. **Genes Dev** 1997 Aug 15; 11(16):2052–65

MUC1 gene polymorphism and gastric cancer—an epidemiological study. Carvalho F, et al. **Glycoconj J** 1997 Jan;14(1):107–11

The relationship between borderline ovarian tumors and epithelial ovarian carcinoma: epidemiologic, pathologic, and molecular aspects. Link CJ Jr, et al. **Gynecol Oncol** 1996 Mar;60(3):347–54 (64 ref.)

Poor correlation with loss of heterozygosity on chromosome 17p and p53 mutations in ovarian cancers. Sakamoto T, et al. **Gynecol Oncol** 1996 Nov;63(2):173–9

Early occurrence and prognostic significance of p53 alteration in primary carcinoma of the fallopian tube. Zheng W, et al. **Gynecol Oncol** 1997 Jan;64(1):38–48

Down regulation of bcl–2 by p53 in nasopharyngeal carcinoma and lack of detection of its specific t(14;18) chromosomal translocation in fixed tissues. Harn HJ, et al. **Histopathology** 1996 Apr;28(4):317–23

Comparison of chromosome 1 aneusomy detected by interphase cytogenetics and DNA ploidy in carcinoma of the breast. Harrison MM, et al. **Histopathology** 1997 Mar; 30(3):221–6

Genetic pathways in colorectal cancer. Ilyas M, et al. **Histopathology** 1996 May;28(5):389–99 (114 ref.)

A novel gene therapy strategy for elimination of prostate carcinoma cells from human bone marrow. Kim M, et al. **Hum Gene Ther** 1997 Jan 20;8(2):157–70

Spindle cell carcinoma of the larynx: review of 26 cases including DNA content and immunohistochemistry. Lewis JE, et al. **Hum Pathol** 1997 Jun;28(6):664–73

Concordance between p53 protein overexpression and gene mutation in a large series of common human carcinomas. Soong R, et al. **Hum Pathol** 1996 Oct;27(10):1050–5

Mutations associated with carcinomas arising from pleomorphic adenomas of the salivary glands. Yamamoto Y, et al. **Hum Pathol** 1996 Aug;27(8):782–6

Transcriptional regulation of the TGF–beta 2 gene in choriocarcinoma cells and breast carcinoma cells: differential utilization of Cis–regulatory elements. Kingsley–Kallesen M, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):294–301

Deletion of chromosome 11p15, p12, q22, q23–24 loci in human prostate cancer. Dahiya R, et al. **Int J Cancer** 1997 Jul 17;72(2):283–8

Ectopic expression of target genes may represent an inherent limitation of RT–PCR assays used for micrometastasis detection: studies on the epithelial glycoprotein gene EGP–2. de Graaf H, et al. **Int J Cancer** 1997 Jul 3; 72(1):191–6

Inactivation of p16/CDKN2 and p15/MTS2 genes in different histological types and clinical stages of primary ovarian tumors. Ichikawa Y, et al. **Int J Cancer** 1996 Dec 20;69(6):466–70

Over–expression of bcl–xL gene in human gastric adenomas and carcinomas. Kondo S, et al. **Int J Cancer** 1996 Dec 11;68(6):727–30

Genomic deletion and p53 inactivation in cervical carcinoma. Ku WH, et al. **Int J Cancer** 1997 Jul 17;72(2):270–6

MLN64 exhibits homology with the steroidogenic acute regulatory protein (STAR) and is over–expressed in human breast carcinomas. Moog–Lutz C, et al. **Int J Cancer** 1997 Apr 10;71(2):183–91

Rare mutations and no hypermethylation at the CDKN2A locus in epithelial ovarian tumours. Shih YC, et al. **Int J Cancer** 1997 Mar 4;70(5):508–11

Allelotype profiles of local recurrences and distant metastases from colorectal–cancer patients. Thorstensen L, et al. **Int J Cancer** 1996 Dec 20;69(6):452–6

Adrenocorticotropin–independent macronodular adrenocortical hyperplasia associated with multiple colon adenomas/carcinomas which showed a point mutation in the APC gene [see comments] Yamakita N, et al. **Intern Med** 1997 Aug;36(8):536–42. Comment in: Intern Med 1997 Aug;36(8):533–4.

p53 gene mutations and expression of p53 and mdm2 proteins in invasive breast carcinoma. A comparative analysis with clinico–pathological factors. Günther T, et al. **J Cancer Res Clin Oncol** 1997;123(7):388–94

Establishment of anaplastic thyroid carcinoma cell lines useful for analysis of chemosensitivity and carcinogenesis. Asakawa H, et al. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3547–52

Familial nonmedullary thyroid carcinoma—the case for genetic susceptibility [editorial] Fagin JA. **J Clin Endocrinol Metab** 1997 Feb;82(2):342–4 (35 ref.)

ret/PTC–1, –2, and –3 oncogene rearrangements in human thyroid carcinomas: implications for metastatic potential? [letter; comment] Mayr B, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1306–7. Comment on: J Clin Endocrinol Metab 1996 Sep;81(9):3360–5.

Deletion of the adrenocorticotropin receptor gene in human adrenocortical tumors: implications for tumorigenesis. Reincke M, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):3054–8

Detection of an activating mutation of the thyrotropin receptor in a case of an autonomously hyperfunctioning thyroid insular carcinoma. Russo D, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):735–8

Amplification of the parathyroid hormone–related peptide gene in a colonic carcinoma. Sidler B, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2841–7

Studies on the hypomethylation of c–myc, c–Ha–ras oncogenes and histopathological changes in human gastric carcinoma. Fang JY, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1079–82

Eradication of murine bladder carcinoma by intratumor injection of a bicistronic adenoviral vector carrying cDNAs for the IL–12 heterodimer and its inhibition by the IL–12 p40 subunit homodimer. Chen L, et al. **J Immunol** 1997 Jul 1;159(1):351–9

Microscopic benign and invasive malignant neoplasms and a cancer–prone phenotype in prophylactic oophorectomies [see comments] Salazar H, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1810–20. Comment in: J Natl Cancer Inst 1996 Dec 18;88(24):1790–1.

Relationship between lifetime ovulatory cycles and overexpression of mutant p53 in epithelial ovarian cancer [see comments] Schildkraut JM, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):932–8. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):906–7.

Cyclin D1 and retinoblastoma gene expression in human breast carcinoma: correlation with tumour proliferation and oestrogen receptor status. Jares P, et al. **J Pathol** 1997 Jun; 182(2):160–6

p16 overexpression: a potential early indicator of transformation in ovarian carcinoma. Shigemasa K, et al. **J Soc Gynecol Investig** 1997 Mar–Apr;4(2):95–102

Effects of intermittent androgen suppression on the stem cell composition and the expression of the TRPM–2 (clusterin) gene in the Shionogi carcinoma. Akakura K, et al. **J Steroid Biochem Mol Biol** 1996 Dec;59(5–6):501–11

An analysis of tamoxifen–stimulated human carcinomas for mutations in the AF–2 region of the estrogen receptor. Bilimoria MM, et al. **J Steroid Biochem Mol Biol** 1996 Aug; 58(5–6):479–88

DNA index by image analysis in advanced endometrial carcinoma. Geisler JP, et al. **J Surg Oncol** 1996 Oct; 63(2):91–4

Is carcinoma breast a different disease in Pakistani population? Ahmed R, et al. **JPMA J Pak Med Assoc** 1997 Apr;47(4):114–6

Rare occurrence of ras and p53 gene mutations in mouse stomach tumors induced by N–methyl–N–nitrosourea. Furihata C, et al. **Jpn J Cancer Res** 1997 Apr;88(4):363–8

Alternative splicing of the FHIT gene in colorectal cancers. Hibi K, et al. **Jpn J Cancer Res** 1997 Apr;88(4):385–8

Inactivation of the E–cadherin gene in primary gastric carcinomas and gastric carcinoma cell lines. Tamura G, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1153–9

p53 in drug resistance in ovarian cancer [letter; comment] Lavarino C, et al. **Lancet** 1997 May 24;349(9064):1556. Comment on: Lancet 1997 Mar 15;349(9054):744–5.

bcl–2 expression and the development of endometrial carcinoma. Chhieng DC, et al. **Mod Pathol** 1996 Apr; 9(4):402–6

ras and p53 genes in male breast cancer. Dawson PJ, et al. **Mod Pathol** 1996 Apr;9(4):367–70

p16 (CDKN2/cyclin–dependent kinase–4 inhibitor/multiple tumor suppressor–1) gene is not altered in uterine cervical carcinomas or cell lines. Hirama T, et al. **Mod Pathol** 1996 Jan;9(1):26–31

Cyclin D1 gene expression in human cervical neoplasia. Nichols GE, et al. **Mod Pathol** 1996 Apr;9(4):418–25

DCC genetic alterations and expression in endometrial carcinoma. Ronnett BM, et al. **Mod Pathol** 1997 Jan; 10(1):38–46

A rapid and nonisotopic method for the screening and sequencing of p53 gene mutations in formalin–fixed, paraffin–embedded tumors. Soong R, et al. **Mod Pathol** 1997 Mar;10(3):252–8

Induction of mammary gland hyperplasia and carcinomas in transgenic mice expressing human cyclin E. Bortner DM, et al. **Mol Cell Biol** 1997 Jan;17(1):453–9

Breast cancer susceptibility genes. Bethwaite P, et al. **N Z Med J** 1996 Sep 13;109(1029):327–8

A new form of RET rearrangement in thyroid carcinomas of children after the Chernobyl reactor accident. Klugbauer S, et al. **Oncogene** 1996 Sep 5;13(5):1099–1102

Carcinoma cell lines become sensitive to DNA–damaging agents by the expression of the adenovirus E1A gene. Sánchez–Prieto R, et al. **Oncogene** 1996 Sep 5; 13(5):1083–92

Altered expression of Erg and Ets–2 transcription factors is associated with genetic changes at 21q22.2–22.3 in immortal and cervical carcinoma cell lines. Simpson S, et al. **Oncogene** 1997 May 8;14(18):2149–57

Amplification, increased dosage and in situ expression of the telomerase RNA gene in human cancer. Soder AI, et al. **Oncogene** 1997 Mar 6;14(9):1013–21

Comparative expression of the LINE–1 p40 protein in human breast carcinomas and normal breast tissues. Asch HL, et al. **Oncol Res** 1996;8(6):239–47

Haplotypes of human leukocyte antigens among patients with nasopharyngeal cancer in Greece. Daniilidis M, et al. **Oncology** 1997 May–Jun;54(3):185–92

ras gene mutations in human endometrial carcinoma. Varras MN, et al. **Oncology** 1996 Nov–Dec;53(6):505–10

Feasibility of archival non–buffered formalin–fixed and paraffin–embedded tissues for PCR amplification: an analysis of resected gastric carcinoma. Inoue T, et al. **Pathol Int** 1996 Dec;46(12):997–1004

APC, K–ras codon 12 mutations and p53 gene expression in carcinoma and adenoma of the gall–bladder suggest two genetic pathways in gall–bladder carcinogenesis. Itoi T, et al. **Pathol Int** 1996 May;46(5):333–40

Genetic mechanisms of estrogen–independence in breast cancer. Dorssers LC, et al. **Pathol Res Pract** 1996 Jul; 192(7):743–51 (117 ref.)

Endometrial carcinomas—flow cytometric DNA content and S–phase values. Jacobsen M, et al. **Pathol Res Pract** 1997; 193(4):283–90

Detection of ras oncogene point mutations and simultaneous proliferative fraction estimation in gallbladder cancer. Saetta A, et al. **Pathol Res Pract** 1996 Jun;192(6):532–40

Profilin gene expression and regulation in a temperature–sensitive breast cancer cell line: tsFT101. Cao Y, et al. **Pflugers Arch** 1997 Aug;434(4):341–5

Increased frequency of a null–allele for NAD(P)H: quinone oxidoreductase in patients with urological malignancies. Schulz WA, et al. **Pharmacogenetics** 1997 Jun;7(3):235–9

Retinoids and secosteroids induce gene expression in human colorectal carcinoma–derived cells but the macroscopic–scale effects remain unpredictable. Waliszewska MK, et al. **Pol J Pathol** 1997;48(1):15–24

Suppression of tumorigenicity by the wild–type tuberous sclerosis 2 (Tsc2) gene and its C–terminal region. Jin F, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9154–9

Transgenic rescue from embryonic lethality and renal carcinogenesis in the Eker rat model by introduction of a wild–type Tsc2 gene. Kobayashi T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3990–3

Identification of ERF–1 as a member of the AP2 transcription factor family. McPherson LA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4342–7

Mouse mammary tumor virus/v–Ha–ras transgene–induced

mammary tumors exhibit strain-specific allelic loss on mouse chromosome 4. Radany EH, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8664-9

A frequent mutation/polymorphism in tumor suppressor gene INK4B (MTS-2) in papillary and medullary thyroid cancer. Goretzki PE, et al. **Surgery** 1996 Dec;120(6):1081-8

The Min mouse: a genetic model for intestinal carcinogenesis. Thompson MB. **Toxicol Pathol** 1997 May-Jun;25(3):329-32 (31 ref.)

The cancers of man and woman. Kamb A, et al. **Trends Genet** 1996 May;12(5):198

Detection of Tn, sialosyl-Tn and T antigens in hereditary nonpolyposis colorectal cancer. Giuffrè G, et al. **Virchows Arch** 1996 Dec;429(6):345-52

Expression of the PIP/GCDFP-15 gene and survival in breast cancer. Hähnel R, et al. **Virchows Arch** 1996 Dec; 429(6):365-9

[Candidate genes for the familial forms of breast and ovarian carcinomas (BRCA)] Markov A. **Mol Med (Sofia)** 1996; 1(1):17-20 (19 ref.) **(Bul)**

[p53 status in breast carcinomas and the effect of adjuvant radio- and chemotherapies] Richter C, et al. **Strahlenther Onkol** 1997 Jan;173(1):50-1 **(Ger)**

[Oncogenes and oncosuppressor role in head and neck carcinomas] Pastore A, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):31-8 (92 ref.) **(Ita)**

[Cyclin D, CDK4 and p16 expression in colorectal cancer] Ikeda K, et al. **Nippon Rinsho** 1996 Apr;54(4):1054-9 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The expression of nuclear proliferation antigen in oropharyngeal carcinoma] Caminero Cueva MJ, et al. **Acta Otorrinolaringol Esp** 1996 Sep-Oct;47(5):377-82 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Increased natural killer cells in fluids. A new, sensitive means of detecting carcinoma. Green LK, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1240-5

Regulation of carcinoembryonic antigen expression in human colon carcinoma cells by the organ microenvironment. Kitadai Y, et al. **Am J Pathol** 1996 Oct;149(4):1157-66

Epitope-mapped monoclonal antibodies as tools for functional and morphological analyses of the human urokinase receptor in tumor tissue. Luther T, et al. **Am J Pathol** 1997 Apr;150(4):1231-44

Dysregulation of carcinoembryonic antigen group members CGM2, CD66a (biliary glycoprotein), and nonspecific cross-reacting antigen in colorectal carcinomas. Comparative analysis by northern blot and in situ hybridization. Nollau P, et al. **Am J Pathol** 1997 Aug; 151(2):521-30

Scatter factor protein levels in human breast cancers: clinicopathological and biological correlations. Yao Y, et al. **Am J Pathol** 1996 Nov;149(5):1707-17

Anti-RNP antibody in a child with undifferentiated carcinoma and no evidence of mixed connective tissue disease. Foster HE, et al. **Br J Rheumatol** 1997 Feb; 36(2):289-91

Circulating antibodies against p53 protein in patients with ovarian carcinoma. Correlation with clinicopathologic features and survival. Angelopoulou K, et al. **Cancer** 1996 Nov 15;78(10):2146-52

The cytokine microenvironment of human colon carcinoma. Lymphocyte expression of tumor necrosis factor-alpha and interleukin-4 predicts improved survival. Barth RJ Jr, et al. **Cancer** 1996 Sep 15;78(6):1168-78

Human ex vivo carcinoma cells produce transforming growth factor beta and thereby can inhibit lymphocyte functions in vitro. Vánky F, et al. **Cancer Immunol Immunother** 1997 Jan;43(6):317-23

CD97: a dedifferentiation marker in human thyroid carcinomas. Aust G, et al. **Cancer Res** 1997 May 1; 57(9):1798-806

Integration of high-risk human papillomavirus DNA is linked to the down-regulation of class I human leukocyte antigens by steroid hormones in cervical tumor cells. Bartholomew JS, et al. **Cancer Res** 1997 Mar 1;57(5):937-42

Localization of p53 and proliferating cell nuclear antigen in fine-needle aspirates of benign and primary malignant tumors of the human breast: an immunocytochemical study using supersensitive monoclonal antibodies and the biotin-streptavidin-amplified method. Alexiev BA. **Diagn Cytopathol** 1996 Nov;15(4):277-81

Signals from lymphocytes in colon cancer [comment] Kiessling R. **Gut** 1997 Jan;40(1):153-4. Comment on: Gut 1997 Jan;40(1):113-9.

Effects of irradiation on the expression of surface antigens in human ovarian cancer. Santin AD, et al. **Gynecol Oncol** 1996 Mar;60(3):468-74

High frequency of altered HLA class I phenotypes in invasive breast carcinomas. Cabrera T, et al. **Hum Immunol** 1996 Oct;50(2):127-34

Generation and application of monoclonal antibody to human pancreatic carcinoma. Yuan S, et al. **Hybridoma** 1996 Aug; 15(4):289-93

Immunosuppressive activity of sera from patients with colorectal and gynecological carcinomas as evaluated by impaired IFN-gamma, IL-1 alpha and TNF-alpha production of human peripheral mononuclear cells. Muster-Bloy R, et al. **Immunobiology** 1996;196(4):356-62

Immunoreactivities of polyclonal and monoclonal anti-T and anti-Tn antibodies with human carcinoma cells, grown in vitro and in a xenograft model. Avichezer D, et al. **Int J Cancer** 1997 Jul 3;72(1):119-27

P-glycoprotein-mediated multidrug resistance and lymphokine-activated killer cell susceptibility in ovarian carcinoma. Savas B, et al. **J Clin Immunol** 1996 Nov; 16(6):348-57

Human colorectal cancer (CRC) antigen CO17-1A/GA733 encoded by adenovirus inhibits growth of established CRC cells in mice. Li W, et al. **J Immunol** 1997 Jul 15; 159(2):763-9

Targeting of natural killer cells to mammary carcinoma via naturally occurring tumor cell-bound iC3b and beta-glucan-primed CR3 (CD11b/CD18). Vetvicka V, et al. **J Immunol** 1997 Jul 15;159(2):599-605

Immunopharmacology and cytokine production of a low-dose schedule of intraperitoneally administered human recombinant interleukin-2 in patients with advanced epithelial ovarian carcinoma. Freedman RS, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):443-51

The biologic effects of C225, a chimeric monoclonal antibody to the EGFR, on human prostate carcinoma. Prewett M, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):419-27

Immune reactions induced by interleukin-2 transfected colorectal cancer cells in vitro: predominant induction of lymphokine-activated killer cells. Lindauer M, et al. **J Mol Med** 1996 Jan;74(1):43-9

Breast cancer-associated antigen, DF3/MUC1, induces apoptosis of activated human T cells. Gimmi CD, et al. **Nat Med** 1996 Dec;2(12):1367-70

Tumor-specific autologous cytotoxic T lymphocytes from tissue sections [letter] Liu SQ, et al. **Nat Med** 1996 Dec; 2(12):1283

Setback to immunotherapy strategies of breast cancer. Naresh KN. **Natl Med J India** 1997 May-Jun;10(3):128-9

Haplotypes of human leukocyte antigens among patients with nasopharyngeal cancer in Greece. Daniilidis M, et al. **Oncology** 1997 May-Jun;54(3):185-92

CYFRA 21-1: an indicator of survival and therapeutic effect in lung cancer. Takei Y, et al. **Oncology** 1997 Jan-Feb; 54(1):43-7

Comparison of integrin alpha chain expression in benign and malignant salivary gland tumors. Franchi A, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):588-95

Comparison of two monoclonal antibodies for the detection of estrogen receptors in primary breast carcinomas. Nedergaard L, et al. **Pathol Res Pract** 1996 Oct; 192(10):983-8

Abnormalities in type IV collagen immunoreactivity in human laryngeal cancers. Lee CS, et al. **Pathology** 1996 May;28(2):135-8

Carbohydrate recognition on MUC1-expressing targets enhances cytotoxicity of a T cell subpopulation. Böhm CM, et al. **Scand J Immunol** 1997 Jul;46(1):27-34

Detection of Tn, sialosyl-Tn and T antigens in hereditary nonpolyposis colorectal cancer. Giuffrè G, et al. **Virchows Arch** 1996 Dec;429(6):345-52

[Prognostic value of CA 125 initial half-life measured during first-line chemotherapy in 62 patients with epithelial ovarian cancer stage III or IV] Riedinger JM, et al. **Bull Cancer** 1996 Aug;83(8):654-63 (Eng. Abstr.) **(Fre)**

[Value of Epstein-Barr virus serology during radiotherapy of undifferentiated carcinoma of the nasopharynx (letter)] Yomi J, et al. **Bull Cancer Radiother** 1996;83(3):168-9 **(Fre)**

[Identification of a tumor antigen associated to the estrogen receptor in axillary lymph nodes of breast cancer patients] Laguens G, et al. **Medicina (B Aires)** 1996;56(3):269-72 (Eng. Abstr.) **(Spa)**

METABOLISM

The activities and subcellular localization of cathepsin B and cysteine proteinase inhibitors in human ovarian carcinoma. Haczyńska H, et al. **Acta Biochim Pol** 1997;44(1):113-20

Simultaneous expression of the ras p21 and p53 proteins in human endometrial carcinomas. Mitурski R, et al. **Acta Histochem** 1996 Nov;98(4):411-8

Frequency of expression of prostate-specific antigen mRNA in lung tumors. Zarghami N, et al. **Am J Clin Pathol** 1997 Aug;108(2):184-90

Gi protein activation of gonadotropin-releasing hormone-mediated protein dephosphorylation in human endometrial carcinoma. Imai A, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):371-6

A human colon carcinoma cell line exhibits adhesive interactions with P-selectin under fluid flow via a PSGL-1-independent mechanism. Goetz DJ, et al. **Am J Pathol** 1996 Nov;149(5):1661-73

Differential expression of laminin 5 (alpha 3 beta 3 gamma 2) by human malignant and normal prostate. Hao J, et al. **Am J Pathol** 1996 Oct;149(4):1341-9

Bcl-2 expression in colorectal tumors: evidence of different pathways in sporadic and ulcerative-colitis-associated carcinomas. Ilyas M, et al. **Am J Pathol** 1996 Nov; 149(5):1719-26

Transforming growth factor-beta, transforming growth factor-beta receptor II, and p27Kip1 expression in nontumorous and neoplastic human pituitaries. Jin L, et al. **Am J Pathol** 1997 Aug;151(2):509-19

Multiparametric in situ mRNA hybridization analysis to predict disease recurrence in patients with colon carcinoma. Kitadai Y, et al. **Am J Pathol** 1996 Nov;149(5):1541-51

Connexin expression and intercellular communication in two- and three-dimensional in vitro cultures of human bladder carcinoma. Knuechel R, et al. **Am J Pathol** 1996 Oct; 149(4):1321-32

Expression and functional analysis of voltage-activated Na+ channels in human prostate cancer cell lines and their contribution to invasion in vitro. Laniado ME, et al. **Am J Pathol** 1997 Apr;150(4):1213-21

Quantitative assessment of the leukocyte infiltrate in ovarian cancer and its relationship to the expression of C-C chemokines. Negus RP, et al. **Am J Pathol** 1997 May; 150(5):1723-34

Expression of P-cadherin identifies prostate-specific-antigen-negative cells in epithelial tissues of male sexual accessory organs and in prostatic carcinomas. Implications for prostate cancer biology. Soler AP, et al. **Am J Pathol** 1997 Aug;151(2):471-8

Analysis of anomalous CD44 gene expression in human breast, bladder, and colon cancer and correlation of observed mRNA and protein isoforms. Woodman AC, et al. **Am J Pathol** 1996 Nov;149(5):1519-30

Differential expression of cytokeratin mRNA and protein in normal prostate, prostatic intraepithelial neoplasia, and invasive carcinoma. Yang Y, et al. **Am J Pathol** 1997 Feb; 150(2):693-704

Cyclocreatine transport and cytotoxicity in rat glioma and human ovarian carcinoma cells: 31P-NMR spectroscopy. Schiffenbauer YS, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C160-9

A new prognostic strategy for gastric carcinoma: mRNA expression of tumor growth-related factors in endoscopic biopsy specimens. Nakamura M, et al. **Ann Surg** 1997 Jul; 226(1):35-42

Immunocytochemical detection of prostate specific antigen expression in human breast carcinoma cells. Bodey B, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2577-81

P21/waf1 protein expression in nasopharyngeal carcinoma. Comparative study with PCNA, p53 and MDM-2 protein expression. Kouvidou C, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2615-9

Interaction of oligodeoxynucleotides with mammalian cells. Hawley P, et al. **Antisense Nucleic Acid Drug Dev** 1996 Fall;6(3):185-95

Lectin staining of renal cell tumours with special emphasis on oncocytomas. Engel U, et al. **APMIS** 1996 Dec; 104(12):933-7

Expression of bone morphogenetic proteins of human neoplastic epithelial cells. Hatakeyama S, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):497-505

Expression of cyclin D1 correlates with malignancy in human ovarian tumours. Barbieri F, et al. **Br J Cancer** 1997; 75(9):1263-8

Expression of the multidrug resistance-associated protein (MRP) gene in colorectal carcinomas. Fillpits M, et al. **Br J Cancer** 1997;75(2):208-12

Analysis of polypeptide expression in benign and malignant human breast lesions: down-regulation of cytokeratins. Franzén B, et al. **Br J Cancer** 1996 Nov;74(10):1632-8

Transplantable rat thyroid cancer cell line FRTC transformed with muramyl dipeptide. Iitaka M, et al. **Br J Cancer** 1997;75(1):40-6

Influence of a haematoporphyrin derivative on the protoporphyrin IX synthesis and photodynamic effect after 5-aminolaevulinic acid sensitization in human colon carcinoma cells. Messmann H, et al. **Br J Cancer** 1997; 76(7):878-83

Fibroblast growth factor 2 in breast cancer: occurrence and prognostic significance. Yiangou C, et al. **Br J Cancer** 1997; 75(1):28-33

Tubulin from paclitaxel-resistant cells as a probe for novel antimicrotubule agents. Sackett DL, et al. **Cancer Chemother Pharmacol** 1997;40(3):228-32

Correlation between biomarkers of omega-3 fatty acid consumption and questionnaire data in African American and Caucasian United States males with and without prostatic carcinoma. Godley PA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):115-9

Role of tissue antioxidant defence in thyroid cancers. Sadani GR, et al. **Cancer Lett** 1996 Dec 3;109(1-2):231-5

Neurofilament heavy chain-like messenger RNA and protein are present in benign prostate and down-regulated in prostatic carcinoma. Schleicher RL, et al. **Cancer Res** 1997 Aug 15;57(16):3532-6

Depletion of hepatocyte nuclear estrogen receptor expression is associated with promotion of tamoxifen induced GST-P foci to tumours in rat liver. Carthew P, et al. **Carcinogenesis** 1997 May;18(5):1109-12

Benzo[c]phenanthrene is activated to DNA-binding diol epoxides in the human mammary carcinoma cell line MCF-7 but only limited activation occurs in mouse skin. Einolf HJ, et al. **Carcinogenesis** 1996 Oct;17(10):2237-44

Synergistic antitumour activity of vitamins C and K3 against human prostate carcinoma cell lines. Venugopal M, et al. **Cell Biol Int** 1996 Dec;20(12):787-97

Growth inhibition by phospholipase C inhibitor peptides of colorectal carcinoma cells derived from familial adenomatous polyposis. Homma MK, et al. **Cell Growth Differ** 1996 Mar;7(3):281-8

A role for insulin-like growth factor binding protein 5 in the antiproliferative action of the antiestrogen ICI 182780.

Huynh H, et al. **Cell Growth Differ** 1996 Nov;7(11):1501–6

Bcl-2 expression regulates sodium butyrate-induced apoptosis in human MCF-7 breast cancer cells. Mandal M, et al. **Cell Growth Differ** 1996 Mar;7(3):311–8

Endocytosis of gastrin in cancer cells expressing gastrin/CCK-B receptor. Tarasova NI, et al. **Cell Tissue Res** 1997 Feb;287(2):325–33

Stereoselective activation of dibenzo[a,l]pyrene and its trans-11,12-dihydrodiol to fjord region 11,12-diol 13,14-epoxides in a human mammary carcinoma MCF-7 cell-mediated V79 cell mutation assay. Ralston SL, et al. **Chem Res Toxicol** 1997 Jun;10(6):687–93

A soluble interleukin 6 receptor isolated from conditioned medium of human breast cancer cells is encoded by a differentially spliced mRNA. Oh JW, et al. **Cytokine** 1996 May;8(5):401–9

Elevated expression of retinoic acid receptor-alpha (RAR alpha) in estrogen-receptor-positive breast carcinomas as detected by immunohistochemistry. Han QX, et al. **Diagn Mol Pathol** 1997 Feb;6(1):42–8

Regulation of estrogen receptor concentration and activity by an erbB/HER ligand in breast carcinoma cell lines. Saceda M, et al. **Endocrinology** 1996 Oct;137(10):4322–30

Expression of the 67 kD laminin receptor in human ovarian carcinomas as defined by a monoclonal antibody, MLuC5. van den Brûle FA, et al. **Eur J Cancer** 1996 Aug; 32A(9):1598–602

ACTH-producing carcinoma of the pituitary with haematogenic metastases. Garrão AF, et al. **Eur J Endocrinol** 1997 Aug;137(2):176–80

Coordinate expression of insulin-like growth factor II (IGF-II) and IGF-II/mannose-6-phosphate receptor mRNA and stable expression of IGF-I receptor mRNA during differentiation of human colon carcinoma cells (Caco-2). Hoeflich A, et al. **Eur J Endocrinol** 1996 Jul; 135(1):49–59

Insulin-like growth factor receptors in normal and tumorous adult human adrenocortical glands. Weber MM, et al. **Eur J Endocrinol** 1997 Mar;136(3):296–303

Novel complementation cell lines derived from human lung carcinoma A549 cells support the growth of E1-deleted adenovirus vectors. Imler JL, et al. **Gene Ther** 1996 Jan; 3(1):75–84

Colorectal adenoma-carcinoma sequence [letter; comment] Khosraviani K. **Gut** 1996 Aug;39(2):342. Comment on: Gut 1996 Feb;38(2):254–9.

T cell receptor-zeta and granzyme B expression in mononuclear cell infiltrates in normal colon mucosa and colon carcinoma [see comments] Mulder WM, et al. **Gut** 1997 Jan;40(1):113–9. Comment in: Gut 1997 Jan;40(1):153–4.

bcl-2 expression in endometrial hyperplasia and carcinoma. Niemann TH, et al. **Gynecol Oncol** 1996 Dec;63(3):318–22

Presence of oncogenic HPV DNAs in cervical carcinoma tissues and pelvic lymph nodes associating with proliferating cell nuclear antigen expression. Park JS, et al. **Gynecol Oncol** 1996 Mar;60(3):418–23

Estrogen receptor immunocytochemistry in endometrial carcinoma: a prognostic marker for survival. Pertschuk LP, et al. **Gynecol Oncol** 1996 Oct;63(1):28–33

Elevated nm23 protein expression is correlated with diminished progression-free survival in patients with epithelial ovarian carcinoma. Srivatsa PJ, et al. **Gynecol Oncol** 1996 Mar;60(3):363–72

Immunohistochemical localization of Mcl-1 and bcl-2 proteins in thymic epithelial tumours. Chen FF, et al. **Histopathology** 1996 Dec;29(6):541–7

Immunohistochemical detection of O-acetylated sialomucins in intestinal metaplasia and carcinoma of the stomach. Mullen PJ, et al. **Histopathology** 1995 Aug;27(2):161–7

Expression of the CD40 antigen on normal endothelial cells and in benign and malignant tumours of vascular origin. Pammer J, et al. **Histopathology** 1996 Dec;29(6):517–24

Cytoplasmic c-erbB2 and survival in Dukes' B colorectal carcinoma [letter] Tannapfel A, et al. **Histopathology** 1995 Aug;27(2):199–201

Immunostaining of the von Hippel-Lindau gene product in normal and neoplastic human tissues. Corless CL, et al. **Hum Pathol** 1997 Apr;28(4):459–64

Expression of cadherins in benign, borderline, and malignant ovarian epithelial tumors: a clinicopathologic study of 60 cases. Daraï E, et al. **Hum Pathol** 1997 Aug;28(8):922–8

Increased expression of fatty acid synthase (OA-519) in ovarian neoplasms predicts shorter survival. Gansler TS, et al. **Hum Pathol** 1997 Jun;28(6):686–92

Expression of alpha(v)beta3 integrin is less frequent in ovarian epithelial tumors of low malignant potential in contrast to ovarian carcinomas. Liapis H, et al. **Hum Pathol** 1997 Apr;28(4):443–9

Analysis of bcl-2 expression in normal, inflamed, dysplastic nasopharyngeal epithelia, and nasopharyngeal carcinoma: association with p53 expression. Sheu LF, et al. **Hum Pathol** 1997 May;28(5):556–62

Concordance between p53 protein overexpression and gene mutation in a large series of common human carcinomas. Soong R, et al. **Hum Pathol** 1996 Oct;27(10):1050–5

Expression of cytokeratin messenger RNA versus protein in the normal mammary gland and in breast cancer. Su L, et al. **Hum Pathol** 1996 Aug;27(8):800–6

Significance of the expression of proliferation-associated nucleolar antigen p120 in human colorectal tumors. Ueki T, et al. **Hum Pathol** 1997 Jan;28(1):74–9

Relationship between ZCE 025 blood clearance and liver accumulation in patients with colorectal cancer. Slater JB, et al. **Immunopharmacology** 1996 Nov;35(2):111–8

Phosphorylation of A 27-kDa protein correlates with survival of protein-synthesis-inhibited MCF-7 cells. Geier A, et al. **In Vitro Cell Dev Biol Anim** 1997 Feb;33(2):129–36

Bauhinia purpurea and Pisum sativum lectin binding in human breast. Sarker AB, et al. **Indian J Pathol Microbiol** 1995 Jul;38(3):261–5

High levels of stromelysin-3 correlate with poor prognosis in patients with breast carcinoma. Chenard MP, et al. **Int J Cancer** 1996 Dec 20;69(6):448–51

Expression of tenascin in invasion border of early breast cancer correlates with higher risk of distant metastasis. Jahkola T, et al. **Int J Cancer** 1996 Dec 20;69(6):445–7

Expression of pS2 protein in endometrial carcinomas: correlation with clinicopathologic features and sex steroid receptor status. Koshiyama M, et al. **Int J Cancer** 1997 Jun 20;74(3):237–44

Low O-acetylation of sialyl-Le(x) contributes to its overexpression in colon carcinoma metastases. Mann B, et al. **Int J Cancer** 1997 Jul 17;72(2):258–64

Analysis of MT1-MMP and MMP2 expression in human gastric cancers. Mori M, et al. **Int J Cancer** 1997 Jun 20; 74(3):316–21

Colon carcinoma glycoproteins carrying alpha 2,6-linked sialic acid reactive with Sambucus nigra agglutinin are not constitutively expressed in normal human colon mucosa and are distinct from sialyl-Tn antigen. Murayama T, et al. **Int J Cancer** 1997 Mar 4;70(5):575–81

Inhibition of interleukin-1 type I receptor expression in human cell-lines by an antisense phosphorothioate oligodeoxynucleotide. Miraglia L, et al. **Int J Immunopharmacol** 1996 Apr;18(4):227–40

The production of colony-stimulating factors by thyroid carcinoma is associated with marked neutrophilia and eosinophilia. Nakada T, et al. **Intern Med** 1996 Oct; 35(10):815–20

E-cadherin mRNA expression in breast carcinomas correlates with overall and disease-free survival. Guriec N, et al. **Invasion Metastasis** 1996;16(1):19–26

Alteration of the sphingomyelin/ceramide pathway is associated with resistance of human breast carcinoma MCF7 cells to tumor necrosis factor-alpha-mediated cytotoxicity. Cai Z, et al. **J Biol Chem** 1997 Mar 14; 272(11):6918–26

Overexpression of cyclin B1 in human colorectal cancers. Wang A, et al. **J Cancer Res Clin Oncol** 1997;123(2):124–7

Aromatase and steroid receptors in gynecomastia and male breast carcinoma: an immunohistochemical study. Sasano H, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3063–7

MIB-1 proliferative activity in invasive breast cancer measured by image analysis [see comments] Querzoli P, et al. **J Clin Pathol** 1996 Nov;49(11):926–30. Comment in: J Clin Pathol 1996 Nov;49(11):868–9.

Liposome longevity and stability in circulation: effects on the in vivo delivery to tumors and therapeutic efficacy of encapsulated anthracyclines. Gabizon A, et al. **J Drug Target** 1996;3(5):391–8

HPMA copolymer-anticancer drug-OV-TL16 antibody conjugates. 1. influence of the method of synthesis on the binding affinity to OVCAR-3 ovarian carcinoma cells in vitro. Omelyanenko V, et al. **J Drug Target** 1996; 3(5):357–73

Gamma scintigraphy of the biodistribution of 123I-labelled N-(2-hydroxypropyl)methacrylamide copolymer-doxorubicin conjugates in mice with transplanted melanoma and mammary carcinoma. Pimm MV, et al. **J Drug Target** 1996;3(5):375–83

Gamma scintigraphy of a 123I-labelled N-(2-hydroxypropyl)methacrylamide copolymer-doxorubicin conjugate containing galactosamine following intravenous administration to nude mice bearing hepatic human colon carcinoma. Pimm MV, et al. **J Drug Target** 1996;3(5):385–90

Low frequency of ErbB-2 proto-oncogene overexpression in human leukocyte antigen-A2-positive breast cancer patients. Nisticò P, et al. **J Natl Cancer Inst** 1997 Feb 19; 89(4):319–21

Expression of human intestinal trefoil factor in malignant cells and its regulation by oestrogen in breast cancer cells. May FE, et al. **J Pathol** 1997 Aug;182(4):404–13

Vitamin D receptor expression is required for growth modulation by 1 alpha,25-dihydroxyvitamin D3 in the human prostatic carcinoma cell line ALVA-31. Hedlund TE, et al. **J Steroid Biochem Mol Biol** 1996 Jun; 58(3):277–88

Triiodothyronine mimics the effects of estrogen in breast cancer cell lines. Nogueira CR, et al. **J Steroid Biochem Mol Biol** 1996 Nov;59(3-4):271–9

Intratumour amount of sex steroids in elderly breast cancer patients. An approach to the biological characterization of mammary tumours in the elderly. Secreto G, et al. **J Steroid Biochem Mol Biol** 1996 Aug;58(5-6):557–61

Estrogen receptor, growth factor receptor and protooncogene protein activities and possible signal transduction crosstalk in estrogen dependent and independent breast cancer cell lines. Mohamood AS, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):1–17

Expression of 32-kDa laminin-binding protein mRNA in colon cancer tissues. Pei DP, et al. **J Surg Res** 1996 Feb 15;61(1):120–6

Inactivation of the E-cadherin gene in primary gastric carcinomas and gastric carcinoma cell lines. Tamura G, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1153–9

Matrix metalloproteinase-2 and tissue inhibitor of metalloproteinase-2 expression and synthetic matrix metalloproteinase-2 inhibitor binding in ovarian carcinomas and tumor cell lines. Afzal S, et al. **Lab Invest** 1996 Feb;74(2):406–21

The human bladder carcinoma cell line 5637 constitutively secretes functional cytokines. Quentmeier H, et al. **Leuk Res** 1997 Apr;21(4):343–50

Spermine-directed immunosuppression of cervical carcinoma cell sensitivity to a majority of lymphokine-activated killer lymphocyte cytotoxicity. Evans CH, et al. **Nat Immun** 1995;14(3):157–63

p53 re-expression inhibits proliferation and restores differentiation of human thyroid anaplastic carcinoma cells. Moretti F, et al. **Oncogene** 1997 Feb 13;14(6):729–40

Transgenic mice carrying the human KRAS oncogene under the control of a thyroglobulin promoter: KRAS expression in thyroids analyzed by in situ hybridization. Chiappetta G, et al. **Oncol Res** 1996;8(2):85–93

Immunohistochemical detection of proliferating cell nuclear antigen and p53 expression in carcinoma of the extrahepatic bile duct. Suto T, et al. **Oncology** 1997 Sep-Oct; 54(5):407–13

Expression of the antiapoptotic protein bcl-2 is not dependent on the tumor suppressor p53 protein in Indian breast carcinoma. Kesari AL, et al. **Pathobiology** 1997; 65(2):108–12

Regular immunohistochemical localization of endothelin-1 and endothelin-B receptor in normal, hyperplastic and neoplastic human adrenocortical cells. Hiraki H, et al. **Pathol Int** 1997 Feb-Mar;47(2-3):117–25

Differences in c-fos gene product expression in cancers of the gall-bladder and biliary tract. Lee CS. **Pathol Int** 1996 Oct;46(10):771–6

Spindle cell carcinoma of the breast: a case report and an immunohistochemical study including p53 and Ki-67 expression. Nakayama Y, et al. **Pathol Int** 1997 Jun; 47(6):404–11

c-myc, c-erbB-1 and c-erbB-2 expressions in urothelial carcinoma. Onodera T, et al. **Pathol Int** 1997 Apr; 47(4):209–16

Different expression of Bcl-2 protein in gastric adenomas and carcinomas. Uesugi H, et al. **Pathol Int** 1996 Apr; 46(4):274–80

p53 expression patterns in colorectal adenomas and early carcinomas: a special reference to depressed adenoma and non-polypoid carcinoma. Yao T, et al. **Pathol Int** 1996 Dec; 46(12):962–7

p53 in a thyroid follicular carcinoma with foci of poorly differentiated and anaplastic carcinoma. Matias-Guiu X, et al. **Pathol Res Pract** 1996 Dec;192(12):1242–9; discussion 1250–1

Endotoxin tolerance impairs a pertussis-toxin-sensitive G-protein regulating tumour necrosis factor release by macrophages from tumour-bearing rats. Altavilla D, et al. **Pharmacol Res** 1996 Mar;33(3):203–9

Immunohistochemical demonstration of fibrin II in gastric cancer tissue. Wojtukiewicz MZ, et al. **Pol J Pharmacol** 1996 Mar-Apr;48(2):229–32

Immunohistochemical analysis of beta-tubulin isotypes in human prostate carcinoma and benign prostatic hypertrophy. Ranganathan S, et al. **Prostate** 1997 Mar 1; 30(4):263–8

Location of prostate-specific membrane antigen in the LNCaP prostate carcinoma cell line. Troyer JK, et al. **Prostate** 1997 Mar 1;30(4):232–42

The differentiating agent phenylacetate increases prostate-specific antigen production by prostate cancer cells. Walls R, et al. **Prostate** 1996 Sep;29(3):177–82

Analysis of glycosylation of prostate-specific membrane antigen derived from LNCaP cells, prostatic carcinoma tumors, and serum from prostate cancer patients. Holmes EH, et al. **Prostate Suppl** 1996;7:25–9

In vitro determination of toxicity, binding, retention, subcellular distribution and biological efficacy of the boron neutron capture agent DAC-1. Tilly N, et al. **Radiother Oncol** 1996 Jan;38(1):41–50

Alpha-fetoprotein-producing carcinoma of the colon: report of a case. Kurihara K, et al. **Surg Today** 1997;27(5):453–6

Presence of atypical laminin on the surface of mouse Lewis lung carcinoma cells. Abe K, et al. **Tohoku J Exp Med** 1996 Sep;180(1):33–44

Expression of Ki-67 by monoclonal antibody MIB-1 in carcinoma of the middle and lower bile duct. Yamada Y, et al. **Tohoku J Exp Med** 1995 Dec;177(4):375–7

Expression of E-cadherin and alpha- and beta-catenin mRNAs in uterine cervical cancers. Fujimoto J, et al. **Tumour Biol** 1997;18(4):206–12

Efficacy of low-molecular-weight heparin and unfractionated heparin to prevent adhesion of human prostate and bladder carcinoma and melanoma cells to bovine endothelial monolayers. An in vitro study and review of the literature. Lersch C, et al. **Urol Int** 1996; 56(4):230–3

Coexpression of p53 and c-erbB-2 proteins is associated with histological type, tumour stage, and cell proliferation in malignant salivary gland tumours. Kamio N. **Virchows Arch** 1996 May;428(2):75–83

[Synthesis and phosphorylation of gastric proteins in cells

of human gastric carcinoma] Karakin EI, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):676–81 **(Rus)**

MICROBIOLOGY

Interferon-beta and -gamma, but not tumor necrosis factor-alpha, demonstrate immunoregulatory effects on carcinoma cell lines infected with human papillomavirus. Bornstein J, et al. **Cancer** 1997 Mar 1;79(5):924–34

Immunolocalization of cell-wall-deficient forms of Mycobacterium tuberculosis complex in sarcoidosis and in sinus histiocytosis of lymph nodes draining carcinoma. Alavi HA, et al. **Histol Histopathol** 1996 Jul;11(3):683–94

Studies on the relationship between adhesive activity and haemagglutination by Helicobacter pylori. Osaki T, et al. **J Med Microbiol** 1997 Feb;46(2):117–21

MORTALITY

Prognostic value of creatine kinase BB isoenzyme in epithelial ovarian carcinoma. Zarghami N, et al. **Can J Oncol** 1995 Sep;5(3):401–7

Long-term survival after hepatic cryosurgery versus surgical resection for metastatic colorectal carcinoma: a critical review of the literature. Tandan VR, et al. **Can J Surg** 1997 Jun;40(3):175–81 (23 ref.)

Disease-specific survival and locoregional control in tonsillar carcinoma. Mak-Kregar S, et al. **Clin Otolaryngol** 1996 Dec;21(6):550–6

Younger age as a bad prognostic factor in patients with carcinoma of the cervix. Delaloye JF, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Feb;64(2):201–5

Poorly differentiated carcinoma and poorly differentiated adenocarcinoma of unknown origin: favorable subsets of patients with unknown-primary carcinoma? Lenzi R, et al. **J Clin Oncol** 1997 May;15(5):2056–66

Randomised study of screening for colorectal cancer with faecal-occult-blood test [see comments] Kronborg O, et al. **Lancet** 1996 Nov 30;348(9040):1467–71. Comment in: Lancet 1997 Feb 1;349(9048):356; discussion 358. Comment in: Lancet 1997 Feb 1;349(9048):356–7; discussion 358. Comment in: Lancet 1997 Feb 1;349(9048):357; discussion 358. Comment in: Lancet 1997 Feb 1;349(9048):357–8. Comment in: ACP J Club 1997 May-Jun;126(3):62–3.

Microvessel count: an indicator of poor outcome in medullary thyroid carcinoma but not in other types of thyroid carcinoma. Fontanini G, et al. **Mod Pathol** 1996 Jun;9(6):636–41

Expression of the PIP/GCDFP-15 gene and survival in breast cancer. Hähnel R, et al. **Virchows Arch** 1996 Dec; 429(6):365–9

[The factors determining survivorship in patients with colorectal carcinoma complicated by obstructive ileus of the large intestine] Stoianov Kh, et al. **Khirurgiia (Sofiia)** 1996;49(2):17–20 (Eng. Abstr.) **(Bul)**

[Survival in ovarian cancer treated in a gynecological department of a central hospital] Dragsted NO, et al. **Ugeskr Laeger** 1997 May 12;159(20):3003–9 (Eng. Abstr.) **(Dan)**

[Better prognosis in epithelial ovarian cancer] Högberg T, et al. **Lakartidningen** 1997 Jan 8;94(1-2):28–31 **(Swe)**

NURSING

Transoral resection of spinal cord tumors and posterior cervical spine stabilization. Walton PG, et al. **AORN J** 1997 Jan;65(1):48–50, 52–9, 62–8; quiz 69–74 (45 ref.)

PATHOLOGY

Cytologic grading of fine needle aspirates of breast carcinoma by private practice pathologists. Cajulis RS, et al. **Acta Cytol** 1997 Mar-Apr;41(2):313–20

Imprint cytology of nasopharyngeal biopsies. Chao TY, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1221–6

Salivary duct carcinoma of the parotid gland. Report of a case with cytologic and immunocytochemical findings on fine needle aspiration biopsy. Colecchia M, et al. **Acta Cytol** 1997 Mar-Apr;41(2):593–7

Metastases to the breast from extramammary neoplasms. A report of six cases with diagnosis by fine needle aspiration cytology. Domanski HA. **Acta Cytol** 1996 Nov-Dec; 40(6):1293–300

The problematic interpretation of foamy cells in breast fine needle aspirates. A report of two cases. Gottschalk-Sabag S, et al. **Acta Cytol** 1997 Mar-Apr;41(2):561–4

Cytologic study of ascites and the endometrium in ovarian carcinoma. Clinical significance. Hirasawa T, et al. **Acta Cytol** 1997 Sep-Oct;41(5):1451–5

Fine needle aspiration cytology of anaplastic carcinoma with osteoclastlike giant cells of the thyroid. A case report. Lee JS, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1309–12

Cytohistologic correlation in malignant peritoneal washings. Analysis of 75 malignant fluids. Mulvany N. **Acta Cytol** 1996 Nov-Dec;40(6):1231–9

Chemotherapy- and radiotherapy-induced cytologic alterations in the sputum of patients with inoperable lung carcinoma. Role in follow-up. Oztek I, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1265–71

Rhabdoid cells in peritoneal fluid. A case report. Stastny JF, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1289–92

Anaplastic thyroid carcinoma in fine needle aspirates. Us-Krašovec M, et al. **Acta Cytol** 1996 Sep-Oct; 40(5):953–8

Body-fundic intestinal type early gastric cancer (EGC): mucopeptic cells (immature cells) expansion in Helicobacter pylori (HP) positive patients [letter] Testino G, et al. **Acta Gastroenterol Belg** 1996 Oct-Dec;59(4):258

Tissue polypeptide-specific antigen (TPS) as tumour marker in epithelial ovarian cancer. Blokkebak-Poulsen J, et al. **Acta Oncol** 1997;36(4):433–5

Ki-67, p53, Er-receptors, ploidy and S-phase as prognostic factors in T1 node negative breast cancer. Railo M, et al. **Acta Oncol** 1997;36(4):369–74

Hyalinizing trabecular adenoma of thyroid masquerading as thyroid carcinoma. Savaş MC, et al. **Acta Oncol** 1997; 36(4):436–7

Correlation of transforming growth factor alpha and epidermal growth factor receptor in oropharyngeal carcinomas. Bergler W, et al. **Acta Otolaryngol (Stockh)** 1996 May;116(3):486–9

Preoperative staging of rectal carcinoma using double-contrast MR imaging. Technical aspects and early clinical experiences. Wallengren NO, et al. **Acta Radiol** 1996 Sep;37(5):791–8

Maxillary nerve involvement in nasopharyngeal carcinoma. Chong VF, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1309–12

Accuracy of staging rectal tumors with contrast-enhanced transrectal MR imaging. Vogl TJ, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1427–34

Age and race as prognostic factors in endometrial carcinoma. Aziz H, et al. **Am J Clin Oncol** 1996 Dec;19(6):595–600

Quantitative immunocytochemical assays on frozen sections of p53: correlation to the follow-up of patients with breast carcinomas. Charpin C, et al. **Am J Clin Pathol** 1996 Nov; 106(5):640–6

Cytologic findings in thyroid nodules after 131I treatment of hyperthyroidism. Granter SR, et al. **Am J Clin Pathol** 1997 Jan;107(1):20–5

Solitary fibrous tumor of the soft tissue. An immunohistochemical and ultrastructural study. Hasegawa T, et al. **Am J Clin Pathol** 1996 Sep;106(3):325–31

Malignant chondroid syringoma: immunohistopathology. Metzler G, et al. **Am J Dermatopathol** 1996 Feb;18(1):83–9

Epidermotropically metastatic breast carcinomas. Rare histopathologic variants mimicking melanoma and Paget's disease. Requena L, et al. **Am J Dermatopathol** 1996 Aug; 18(4):385–95

Sinonasal undifferentiated carcinoma: a 10-year experience. Righi PD, et al. **Am J Otolaryngol** 1996 May-Jun; 17(3):167–71

Analysis of estrogen receptor messenger RNA in breast carcinomas from archival specimens is predictive of tumor biology. Carmeci C, et al. **Am J Pathol** 1997 May; 150(5):1563–70

Different patterns of DNA alterations detected by restriction landmark genomic scanning in heterogeneous prostate carcinomas. Konishi N, et al. **Am J Pathol** 1997 Jan; 150(1):305–14

Expression and functional analysis of voltage-activated Na+ channels in human prostate cancer cell lines and their contribution to invasion in vitro. Laniado ME, et al. **Am J Pathol** 1997 Apr;150(4):1213–21

Expression of mitogen-activated protein kinase phosphatase-1 in the early phases of human epithelial carcinogenesis. Loda M, et al. **Am J Pathol** 1996 Nov; 149(5):1553–64

Inhibition of colon carcinoma cell lung colony formation by a soluble form of E-selectin. Mannori G, et al. **Am J Pathol** 1997 Jul;151(1):233–43

Quantitative assessment of the leukocyte infiltrate in ovarian cancer and its relationship to the expression of C-C chemokines. Negus RP, et al. **Am J Pathol** 1997 May; 150(5):1723–34

Identification of dysplasia in human colonic aberrant crypt foci. Siu IM, et al. **Am J Pathol** 1997 May;150(5):1805–13

Effect of extended sleep deprivation on tumor growth in rats. Bergmann BM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1460–4

Encapsulated columnar-cell neoplasms of the thyroid. A report of four cases suggesting a favorable prognosis. Evans HL. **Am J Surg Pathol** 1996 Oct;20(10):1205–11

"Proximal-type" epithelioid sarcoma, a distinctive aggressive neoplasm showing rhabdoid features. Clinicopathologic, immunohistochemical, and ultrastructural study of a series. Guillou L, et al. **Am J Surg Pathol** 1997 Feb;21(2):130–46 (70 ref.)

Genotypic alterations in benign and malignant salivary gland tumors: histogenetic and clinical implications. el-Naggar AK, et al. **Am J Surg Pathol** 1997 Jun;21(6):691–7

Options of flow cytometric three-colour DNA measurements to quantitate EGFR in subpopulations of human bladder cancer. Brockhoff G, et al. **Anal Cell Pathol** 1996 Jun; 11(1):55–70

Effect of ultrafast Papanicolaou staining on nuclear and textural features in breast cancer cytology. Einstein AJ, et al. **Anal Quant Cytol Histol** 1997 Aug;19(4):361–7

Comparison of histologic and cytologic specimens of urothelial carcinoma with image analysis. Implications for grading. Forte JD, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):158–66

The abundant presence of Söderström bodies in cytology smears of fine-needle aspirates contributes to distinguishing high-grade non-Hodgkin's lymphoma from carcinoma and sarcoma. Bangerter M, et al. **Ann Hematol** 1997 Apr; 74(4):175–8

Isolated granulocytic sarcoma of the breast [letter] Doval DC, et al. **Ann Oncol** 1996 Apr;7(4):424–5

Anaplastic carcinoma of the thyroid. Sweeney PJ, et al. **Ann Oncol** 1996 Sep;7(7):739–44 (37 ref.)

The additive antiproliferative effect of all-trans retinoic acid and interferon-alpha2a on human cervical carcinoma cell lines is not associated with increased expression of retinoid receptors. Wahlberg P, et al. **Anticancer Drugs** 1997 Jun; 8(5):522–8

The usefulness of technetium-99m-MIBI scintimammography in diagnosis of breast cancer: using surgical histopathologic diagnosis as the gold standard. Chen SL, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1695–8

Reduced expression of molecules of the cadherin/catenin complex in the transition from colorectal adenoma to carcinoma. Hao X, et al. **Anticancer Res** 1997 May-Jun; 17(3C):2241–7

Epithelial-myoepithelial carcinoma of the salivary glands: a clinico-pathologic, immunohistochemical and DNA flow cytometric study of three cases. Tralongo V, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):761–8

Genomic instability and poor prognosis associated with abnormal TP53 in breast carcinomas. Molecular and immunohistochemical analysis. Valgardsdottir R, et al. **APMIS** 1997 Feb;105(2):121–30

Estrogen and progesterone receptors in endometrial cancer. Clinicopathological correlations and prognostic significance. Nyholm HC. **APMIS Suppl** 1996;65:5–33 (186 ref.)

Pathogenesis of breast carcinoma. Immunohistochemical study. Zóltowska A. **Arch Immunol Ther Exp (Warsz)** 1997; 45(1):101–8

Invasive spindle cell carcinoma of the conjunctiva. Slusker-Shternfeld I, et al. **Arch Ophthalmol** 1997 Feb; 115(2):288–9

Validity of clinic biopsy specimens in classifying histopathologic characteristics of recurrent nasopharyngeal carcinoma. Brown JJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):950–5

Stereotactic core needle biopsy and the workup of mammographic breast lesions. Devia A, et al. **Arch Surg** 1997 May;132(5):512–5; discussion 515–7

A case report of occult thyroglossal duct carcinoma. Ikeda M, et al. **Auris Nasus Larynx** 1996;23:143–6

Regulation of androgen receptor (AR) and prostate specific antigen (PSA) expression in the androgen-responsive human prostate LNCaP cells by ethanolic extracts of the Chinese herbal preparation, PC-SPES. Hsieh T, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):535–44

Exposure to strong static magnetic field slows the growth of human cancer cells in vitro. Raylman RR, et al. **Bioelectromagnetics** 1996;17(5):358–63

Plateau-phase cultures: an experimental model for identifying drugs which are bioactivated within the microenvironment of solid tumours. Phillips RM, et al. **Br J Cancer** 1997; 75(2):196–201

Five newly established oesophageal carcinoma cell lines: phenotypic and immunological characterization. Rockett JC, et al. **Br J Cancer** 1997;75(2):258–63

Histopathology and growth rate of interval breast carcinoma. Characterization of different subgroups. Brekelmans CT, et al. **Cancer** 1996 Sep 15;78(6):1220–8

High and low risk prostate carcinoma determined by histologic grade and proliferative activity. Chiusa L, et al. **Cancer** 1997 May 15;79(10):1956–63

Retropharyngeal lymphadenopathy in patients with nasopharyngeal carcinoma: a computed tomography-based study. Chua DT, et al. **Cancer** 1997 Mar 1;79(5):869–77

Insular thyroid carcinoma in adolescents: a potentially lethal endocrine malignancy. Hassoun AA, et al. **Cancer** 1997 Mar 1;79(5):1044–8

Coabnormal expression of cyclin D1 and p53 protein in human uterine endometrial carcinomas. Nikaido T, et al. **Cancer** 1996 Sep 15;78(6):1248–53

Histologic characteristics of breast cancers with occult lymph node metastases detected by keratin 19 mRNA reverse transcriptase-polymerase chain reaction. Noguchi S, et al. **Cancer** 1996 Sep 15;78(6):1235–40

Cancer cell morphology at the invasive front and expression of cell adhesion-related carbohydrate in the primary lesion of patients with colorectal carcinoma with liver metastasis. Ono M, et al. **Cancer** 1996 Sep 15;78(6):1179–86

Vascular endothelial growth factor expression in early stage ovarian carcinoma. Paley PJ, et al. **Cancer** 1997 Jul 1; 80(1):98–106

Undifferentiated carcinoma of the major salivary glands. Sheen TS, et al. **Cancer** 1997 Aug 1;80(3):357–63

Cervical specimens collected in liquid buffer are suitable for both cytologic screening and ancillary human papillomavirus testing. Sherman ME, et al. **Cancer** 1997 Apr 25;81(2):89–97

The prognosis of resected lung carcinoma associated with atypical adenomatous hyperplasia: a comparison of the prognosis of well-differentiated adenocarcinoma associated with atypical adenomatous hyperplasia and intrapulmonary metastasis. Suzuki K, et al. **Cancer** 1997 Apr 15;79(8):1521–6

Prognostic significance of DNA ploidy and proliferation in 309 colorectal carcinomas as determined by two-color multiparametric DNA flow cytometry. Zarbo RJ, et al. **Cancer** 1997 Jun 1;79(11):2073–86

The presence of human papillomavirus-16/-18 E6, p53, and Bcl-2 protein in cervicovaginal smears from patients with invasive cervical cancer. Pillai MR, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):329-35

Characterization of chromosome changes in two human prostatic carcinoma cell lines (PC-3 and DU145) using chromosome painting and comparative genomic hybridization. Bernardino J, et al. **Cancer Genet Cytogenet** 1997 Jul 15;96(2):123-8

Initial surgical management of advanced epithelial ovarian cancer. Benjamin I, et al. **Cancer Invest** 1997;15(3):270-6 (35 ref.)

Inducible antisense inhibition of erbB-2 expression reduces anchorage independent growth of ovarian carcinoma cells. Pegues JC, et al. **Cancer Lett** 1997 Jul 15;117(1):73-9

Inhibition of human breast cancer metastasis in nude mice by synthetic glycoamines. Glinsky GV, et al. **Cancer Res** 1996 Dec 1;56(23):5319-24

Correlations between S and G2 arrest and the cytotoxicity of camptothecin in human colon carcinoma cells. Goldwasser F, et al. **Cancer Res** 1996 Oct 1;56(19):4430-7

Dominant nature of the resistance to Fas- and tumor necrosis factor-alpha-mediated apoptosis in human prostatic carcinoma cell lines. Rokhlin OW, et al. **Cancer Res** 1997 Sep 15;57(18):3941-3

Thyroid cancer: differentiated carcinoma. Harmer CL, et al. **Cancer Treat Rev** 1996 May;22(3):161-77 (42 ref.)

Alpha 2 beta 1 integrin is required for the collagen and FGF-1 induced cell dispersion in a rat bladder carcinoma cell line. Vallés AM, et al. **Cell Adhes Commun** 1996 Sep; 4(3):187-99

Induction of a less aggressive breast cancer phenotype by protein kinase C-alpha and -beta overexpression. Manni A, et al. **Cell Growth Differ** 1996 Sep;7(9):1187-98

Overexpression of transforming growth factor beta type I receptor abolishes malignant phenotype of a rat bladder carcinoma cell line. Okamoto M, et al. **Cell Growth Differ** 1997 Aug;8(8):921-6

Sarcomatoid carcinoma of the small intestine: a case report. Lai GC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jun;59(6):377-81

Poorly differentiated "insular" carcinoma of the thyroid: a case report. Yang HJ, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jul;58(1):45-9

Quantitative and qualitative differences in growth, invasion and lung colonization of an anaplastic and a papillary human thyroid cancer cell line in vitro and in vivo [published erratum appears in Clin Exp Metastasis 1997 Jan;15(1):76] Boghaert ER, et al. **Clin Exp Metastasis** 1996 Oct;14(5):440-50

Expression of c-ets-1 mRNA is associated with an invasive, EMT-derived phenotype in breast carcinoma cell lines. Gilles C, et al. **Clin Exp Metastasis** 1997 Sep;15(5):519-26

EGF receptor signaling enhances in vivo invasiveness of DU-145 human prostate carcinoma cells. Turner T, et al. **Clin Exp Metastasis** 1996 Sep;14(4):409-18

Leptomeningeal carcinomatosis presenting as progressive multineuritis: clinical, pathologic, and MRI study. Galassi G, et al. **Clin Neuropathol** 1996 May-Jun;15(3):159-62

Metastasizing extraneural tumors along the CSF pathway. Lee JY, et al. **Clin Neuropathol** 1997 May-Jun;16(3):117-21 (15 ref.)

N-staging of nasopharyngeal carcinoma: discrepancy between UICC/AJCC and Ho systems. Union Internationale Contre le Cancer. American Joint Committee for Cancer. Lee AW, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):155-9

Primary epithelial tumors of salivary glands--histogenesis, histomorphological and immunohistochemical implications--diagnosis and clinical management. Shrestha P, et al. **Crit Rev Oncol Hematol** 1996 Jul;23(3):239-60 (281 ref.)

Cell cycle changes associated with formation of Pt-DNA adducts in human ovarian carcinoma cells with different cisplatin sensitivity. Vaisman A, et al. **Cytometry** 1997 Jan 1;27(1):54-64

Salivary epithelial-myoepithelial carcinoma: report of a case misinterpreted as pleomorphic adenoma on fine needle aspiration (FNA). Stewart CJ, et al. **Cytopathology** 1997 Jun;8(3):203-9

c-erb B-2 and p53 expression in breast cancer fine needle aspirates. Tiniakos DG, et al. **Cytopathology** 1996 Jun; 7(3):178-86

Pathological assessment in patients receiving primary medical therapy for breast cancer [editorial] Trott PA. **Cytopathology** 1996 Apr;7(2):75-7 (16 ref.)

Nuclear pseudoinclusions in a case of parotid mucoepidermoid carcinoma. Davila RM. **Diagn Cytopathol** 1996 Feb;14(1):72-4

Fine-needle aspiration biopsy of salivary duct carcinoma: report of five cases. Fýrat P, et al. **Diagn Cytopathol** 1997 Jun;16(6):526-30

Immunocytochemical staining of smears and corresponding cell blocks from serous effusions: a follow-up and comparative investigation. Jensen ML, et al. **Diagn Cytopathol** 1996 Jul;15(1):33-6

c-erbB-2 expression in FNAB smears and matched surgical specimens of breast cancer. Troncone G, et al. **Diagn Cytopathol** 1996 Mar;14(2):135-9

Epithelial-myoepithelial cell carcinoma of the parotid gland: a case report and comparison of cytologic features with other stromal, epithelial, and myoepithelial cell containing lesions of the salivary glands. Wax T, et al. **Diagn Cytopathol** 1996 Jun;14(4):298-304

Cytopathology of retrograde renal pelvis brush specimens: an analysis of 40 cases with emphasis on collecting duct carcinoma and low-intermediate grade transitional cell carcinoma. Zaman SS, et al. **Diagn Cytopathol** 1996 Nov; 15(4):312-21

Formation of spheroid structures in a human colon carcinoma cell line involves a complex series of intercellular rearrangements. Lincz LF, et al. **Differentiation** 1997 May; 61(4):261-74

Abnormalities of epithelial apoptosis in multistep colorectal neoplasia demonstrated by terminal deoxyuridine nick end labeling. Moss SF, et al. **Dig Dis Sci** 1996 Nov; 41(11):2238-47

Is there a dysplasia-carcinoma sequence in rat gastric remnant? Schwab GP, et al. **Dig Dis Sci** 1997 Mar; 42(3):608-15

Coexpression of Bcl-2, c-Myc, and p53 oncoproteins as prognostic discriminants in patients with colorectal carcinoma. Bhatavdekar JM, et al. **Dis Colon Rectum** 1997 Jul;40(7):785-90

The effects of growth factors associated with osteoblasts on prostate carcinoma proliferation and chemotaxis: implications for the development of metastatic disease. Ritchie CK, et al. **Endocrinology** 1997 Mar;138(3):1145-50

Differential growth regulation by all-trans retinoic acid is determined by protein kinase C alpha in human pancreatic carcinoma cells. Rosewicz S, et al. **Endocrinology** 1996 Aug;137(8):3340-7

Retropharyngeal lymphadenopathy in nasopharyngeal carcinoma. Chong VF, et al. **Eur J Radiol** 1995 Dec 15; 21(2):100-5

Neoadjuvant intra-arterial polychemotherapy of locally advanced rectal cancer. Braun EM, et al. **Eur J Surg Oncol** 1997 Jun;23(3):228-32

Eccrine porocarcinoma with intracerebral extension. Sigal R, et al. **Eur Radiol** 1997;7(4):573-5

In vitro modulation of implantation and intraepithelial expansion of bladder tumor cells by epidermal growth factor. Bindels EM, et al. **Exp Cell Res** 1997 Sep 15; 235(2):395-402

Retinoic acid inhibition of cell cycle progression in MCF-7 human breast cancer cells. Zhu WY, et al. **Exp Cell Res** 1997 Aug 1;234(2):293-9

Choroid plexus carcinoma. Case report. Kroh H, et al. **Folia Neuropathol** 1996;34(1):25-30

Retinoic acid receptor beta regulates growth and differentiation in human pancreatic carcinoma cells. Kaiser A, et al. **Gastroenterology** 1997 Sep;113(3):920-9

High expression of a Lewis(x)-related epitope in gastric carcinomas indicates metastatic potential and poor prognosis. Mayer B, et al. **Gastroenterology** 1996 Dec; 111(6):1433-46

The clinical utility of endoscopic ultrasound-guided fine-needle aspiration in the diagnosis and staging of pancreatic carcinoma. Chang KJ, et al. **Gastrointest Endosc** 1997 May;45(5):387-93

Endoscopic and clinicopathologic evaluation of four cases of minute flat invasive colorectal carcinoma. Kanamori T, et al. **Gastrointest Endosc** 1996 Jul;44(1):75-9

Endoscopic and pathologic features of Epstein-Barr virus-associated gastric carcinoma. Yanai H, et al. **Gastrointest Endosc** 1997 Mar;45(3):236-42

The problem of "flat" colonic adenoma. Kudo S, et al. **Gastrointest Endosc Clin N Am** 1997 Jan;7(1):87-98 (28 ref.)

Isolated tumor cells in the bone marrow: value of a new diagnostic method in the TNM-staging of solid tumors. Werner M, et al. **Gen Diagn Pathol** 1996 Jun;142(1):1-6 (53 ref.)

Preoperative value of CA 125 as a reflection of tumor grade in epithelial ovarian cancer. But I, et al. **Gynecol Oncol** 1996 Nov;63(2):166-72

Growth inhibition of human cervical cancer cells with the recombinant adenovirus p53 in vitro. Hamada K, et al. **Gynecol Oncol** 1996 Mar;60(3):373-9

Undifferentiated carcinoma of the broad ligament in a 28-year-old woman--a case report and results of immunohistochemical and electron-microscopic studies. Kobayashi Y, et al. **Gynecol Oncol** 1996 Dec;63(3):382-7

The relationship between borderline ovarian tumors and epithelial ovarian carcinoma: epidemiologic, pathologic, and molecular aspects. Link CJ Jr, et al. **Gynecol Oncol** 1996 Mar;60(3):347-54 (64 ref.)

The effect of postsurgical therapy on stage III endometrial carcinoma. Schorge JO, et al. **Gynecol Oncol** 1996 Oct; 63(1):34-9

Parametrial involvement in endometrial carcinomas: its incidence and correlation with other histological parameters. Yura Y, et al. **Gynecol Oncol** 1996 Oct; 63(1):114-9

Clinicopathological characteristics of stage 1 gastric cancer: comparison of macroscopic and microscopic findings. Baba H, et al. **Hepatogastroenterology** 1997 Mar-Apr; 44(14):554-8

Overexpression of p53 is associated with growth pattern and prognosis in advanced gastric cancer. Ichiyoshi Y, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):546-53

Relationship of p53 and c-erbB-2 expression to histopathological features, Helicobacter pylori infection and prognosis in gastric cancer. Shun CT, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):604-9

Nuclear image analysis of immunohistochemically stained cells in breast carcinomas. Haroske G, et al. **Histochem Cell Biol** 1996 Jun;105(6):479-85

Eosinophils and human cancer. Samoszuk M. **Histol Histopathol** 1997 Jul;12(3):807-12 (61 ref.)

The effects of chemotherapy on breast cancer tissue in locally advanced breast cancer [see comments] Aktepe F, et al. **Histopathology** 1996 Jul;29(1):63-7. Comment in: Histopathology 1997 Apr;30(4):397-8.

Pathology of R4 spiculated lesions in the breast screening programme. Douglas-Jones AG, et al. **Histopathology** 1997 Mar;30(3):214-20

Ovarian atypical endometriosis: its close association with malignant epithelial tumours. Fukunaga M, et al. **Histopathology** 1997 Mar;30(3):249-55

Breast cancer: two micrometastatic variants in the axilla that differ in prognosis. Hartveit F, et al. **Histopathology** 1996 Mar;28(3):241-6

Immunolocalization of oestrogen and progesterone receptors in prostatic hyperplasia and carcinoma. Hiramatsu M, et al. **Histopathology** 1996 Feb;28(2):163-8

An Epstein-Barr virus positive undifferentiated carcinoma in the lacrimal sac. Leung SY, et al. **Histopathology** 1996 Jan;28(1):71-5

Hyalinizing trabecular carcinoma of thyroid gland. McCluggage WG, et al. **Histopathology** 1996 Apr; 28(4):357-62

Spindle cell non-argyrophil carcinoma of the breast with neuroendocrine differentiation. Paties C, et al. **Histopathology** 1996 Nov;29(5):471-3

Spindle and giant cell carcinoma of the colon. Serio G, et al. **Histopathology** 1997 Apr;30(4):383-5

Spindle cell carcinoma of the larynx: review of 26 cases including DNA content and immunohistochemistry. Lewis JE, et al. **Hum Pathol** 1997 Jun;28(6):664-73

Morphological and biological characteristics of mammogram-detected invasive breast cancer. Moezzi M, et al. **Hum Pathol** 1996 Sep;27(9):944-8

The predictive power of semiquantitative immunohistochemical assessment of p53 and c-erb B-2 in lymph node-negative breast cancer. O'Malley FP, et al. **Hum Pathol** 1996 Sep;27(9):955-63

Microsatellite alterations indicating monoclonality in atypical hyperplasias associated with breast cancer. Rosenberg CL, et al. **Hum Pathol** 1997 Feb;28(2):214-9

Immunohistochemical detection of p21waf1/cip1/sdi1 and p53 proteins in formalin-fixed, paraffin-embedded tissue sections of colorectal carcinoma. Sasaki K, et al. **Hum Pathol** 1996 Sep;27(9):912-6

Epithelial-myoepithelial carcinoma of the lung: immunohistochemical and ultrastructural observations and review of the literature. Wilson RW, et al. **Hum Pathol** 1997 May;28(5):631-5 (32 ref.)

Endothelial and macrophage upregulation of urokinase receptor expression in human renal cell carcinoma. Xu Y, et al. **Hum Pathol** 1997 Feb;28(2):206-13

Growth kinetics of colorectal adenoma-carcinoma sequence: an immunohistochemical study of proliferating cell nuclear antigen expression. Yang HB, et al. **Hum Pathol** 1996 Oct; 27(10):1071-6

Intramural carcinomas of the uterine corpus: a clinicopathological study. Kuwashima Y, et al. **In Vivo** 1997 May-Jun;11(3):253-60

Histologic differences between flat tubular colorectal neoplasias in Japan and Sweden. Rubio C, et al. **In Vivo** 1997 Jan-Feb;11(1):93-4

Cytology. A valuable tool in prognostication of carcinoma breast. Singh UR, et al. **Indian J Cancer** 1996 Dec; 33(4):187-91

Metastatic carcinoma involving the testes. Sharma MC, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):293-6 (5 ref.)

Leukemia inhibitory factor induces apoptosis and proliferation of human carcinoma cells through different oncogene pathways. Kamohara H, et al. **Int J Cancer** 1997 Aug 7;72(4):687-95

Establishment and characterization of 12 uterine cervical-carcinoma cell lines: common sequence variation in the E7 gene of HPV-16-positive cell lines. Ku JL, et al. **Int J Cancer** 1997 Jul 17;72(2):313-20

Characterization of a xenograft model of human ovarian carcinoma which produces intraperitoneal carcinomatosis and metastases in mice. Molpus KL, et al. **Int J Cancer** 1996 Nov 27;68(5):588-95

Microglial cells induce cytotoxic effects toward colon carcinoma cells: measurement of tumor cytotoxicity with a gamma-glutamyl transpeptidase assay. Murata J, et al. **Int J Cancer** 1997 Jan 17;70(2):169-74

Low frequency of apoptosis in Epstein-Barr virus-associated gastric carcinoma with lymphoid stroma. Ohfuji S, et al. **Int J Cancer** 1996 Dec 11;68(6):710-5

Effect of transfected interleukin-6 in non-tumorigenic and tumorigenic rat urothelial cell lines. Okamoto M, et al. **Int J Cancer** 1996 Nov 27;68(5):616-21

Rapid induction of apoptosis in human C33A cervical carcinoma cells by the synthetic retinoid 6-[3-(1-adamantyl)hydroxyphenyl]-2-naphtalene carboxylic acid (CD437). Oridate N, et al. **Int J Cancer** 1997 Feb 7;70(4):484-7

Adhesion of HT-29 colon carcinoma cells to E-selectin results in increased tyrosine phosphorylation and decreased activity of c-src. Soltesz SA, et al. **Int J Cancer** 1997 May 16;71(4):645-53

Inhibition of growth and enhancement of differentiation of colorectal carcinoma cell lines by MAb MR6 and IL-4. Al-Tubuly AA, et al. **Int J Cancer** 1997 May 16; 71(4):605-11

Carcinoma of the endometrium: do the nuclear grade and DNA ploidy provide more prognostic information than do the FIGO and WHO classifications? Nordström B, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):191-201

Cancer of the nasal cavity and paranasal sinuses: a new staging system. Carinci F, et al. **Int J Oral Maxillofac Surg** 1996 Feb;25(1):34-9

Analysis of prognostic factors in stage IIB-IVA cervical carcinoma treated with radiation therapy: value of computed tomography. Ogino I, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1071-7

Characteristics of androgen-independent growth of androgen-responsive Shionogi carcinoma 115 cells. Tomioka S, et al. **Int J Urol** 1996 Jul;3(4):286-91

Is laparotomy for staging early ovarian cancer an absolute necessity? Possover M, et al. **J Am Assoc Gynecol Laparosc** 1995 May;2(3):285-8

Metaplastic breast carcinoma. Smith DM, et al. **J Am Osteopath Assoc** 1996 Jul;96(7):419-21

Identification of an autocrine mechanism for regulating cell-cycle progression in murine keratinocytes. Curtin GM, et al. **J Cancer Res Clin Oncol** 1997;123(2):71-81

A new cell line from human undifferentiated carcinoma of the ovary: establishment and characterization. Kim JW, et al. **J Cancer Res Clin Oncol** 1997;123(2):82-90

Invasive potentials of gastric carcinoma cell lines: role of alpha 2 and alpha 6 integrins in invasion. Koike N, et al. **J Cancer Res Clin Oncol** 1997;123(6):310-6

Role of milky spots as selective implantation sites for malignant cells in peritoneal dissemination in mice. Tsujimoto H, et al. **J Cancer Res Clin Oncol** 1996; 122(10):590-5

Biology of colorectal and gastric cancer cell lines. Park JG, et al. **J Cell Biochem Suppl** 1996;24:131-41 (26 ref.)

Growth stimulation of colorectal carcinoma cells via the c-kit receptor is inhibited by TGF-beta 1. Bellone G, et al. **J Cell Physiol** 1997 Jul;172(1):1-11

Clinicopathologic features of submucosal carcinoma of the stomach. Hanazaki K, et al. **J Clin Gastroenterol** 1997 Apr; 24(3):150-5

Natural history and prognosis of untreated stage I epithelial ovarian carcinoma [see comments] Ahmed FY, et al. **J Clin Oncol** 1996 Nov;14(11):2968-75. Comment in: J Clin Oncol 1997 Feb;15(2):864-5.

Systematic surgical staging: stage I ovarian cancer [letter; comment] Piver MS. **J Clin Oncol** 1997 Feb;15(2):864-5. Comment on: J Clin Oncol 1996 Nov;14(11):2968-75.

A comparison of pathological methods of measuring lung cancer volume. Binks S, et al. **J Clin Pathol** 1996 Aug; 49(8):654-6

Parathyroid carcinoma and primary autoimmune hypothyroidism in an elderly woman. Loviselli A, et al. **J Endocrinol Invest** 1997 Feb;20(2):82-5

Topographic distribution of laryngeal cancer. Basut O, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):231-2

A retrospective analysis of thyroid cancer. Ertürk E, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):245-9

A comparison of the clinical usefulness of CA 19-9 and CA 50 in the diagnosis and monitoring of gastrointestinal cancers. Kokocińska D, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):283-7

Breast carcinoma in Pakistani women. Usmani K, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):251-3

Studies on the hypomethylation of c-myc, c-Ha-ras oncogenes and histopathological changes in human gastric carcinoma. Fang JY, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1079-82

Immunomagnetic techniques for the enrichment and detection of isolated breast carcinoma cells in bone marrow and peripheral blood. Naume B, et al. **J Hematother** 1997 Apr;6(2):103-14

Differential expression of CD66a (BGP), a cell adhesion molecule of the carcinoembryonic antigen family, in benign, premalignant, and malignant lesions of the human mammary gland. Riethdorf L, et al. **J Histochem Cytochem** 1997 Jul;45(7):957-63

Immunohistochemical characteristics of colorectal carcinoma with DNA replication errors. Kim H, et al. **J Korean Med Sci** 1996 Apr;11(2):137-43

Poorly differentiated ("insular") carcinoma of the thyroid gland--two cases report. Paik SS, et al. **J Korean Med Sci** 1997 Feb;12(1):70-4

Microscopic benign and invasive malignant neoplasms and a cancer-prone phenotype in prophylactic oophorectomies [see comments] Salazar H, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1810-20. Comment in: J Natl Cancer Inst 1996 Dec 18;88(24):1790-1.

Calcified brain metastases from lung carcinoma [letter] Cacho J, et al. **J Neurol** 1996 Jun;243(6):487-8

Undifferentiated carcinoma arising in oncocytic Schneiderian (cylindrical cell) papilloma. Yang YJ, et al. **J Oral Maxillofac Surg** 1997 Mar;55(3):289-94

Epithelial-myoepithelial carcinoma of the palate. Kusama K, et al. **J Oral Pathol Med** 1996 Sep;25(8):463-6

Effects of 1,25 dihydroxyvitamin D3 and its analogues on induction of apoptosis in breast cancer cells. James SY, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):395-401

1,25-Dihydroxyvitamin D3 induces morphological and biochemical markers of apoptosis in MCF-7 breast cancer cells. Simboli-Campbell M, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):367-76

DNA-containing cytoplasmic bridges in a human breast cancer cell line, MX-1: morphological markers of a highly mobile cell type? Wolf KW, et al. **J Submicrosc Cytol Pathol** 1996 Jul;28(3):369-73

Histologic trends in thyroid cancer 1969-1993: a clinico-pathologic analysis of the relative proportion of anaplastic carcinoma of the thyroid. Agrawal S, et al. **J Surg Oncol** 1996 Dec;63(4):251-5

DNA index by image analysis in advanced endometrial carcinoma. Geisler JP, et al. **J Surg Oncol** 1996 Oct; 63(2):91-4

Suppression of pancreatic cancer by the dominant negative ras mutant, N116Y. Shichinohe T, et al. **J Surg Res** 1996 Dec;66(2):125-30

Is carcinoma breast a different disease in Pakistani population? Ahmed R, et al. **JPMA J Pak Med Assoc** 1997 Apr;47(4):114-6

Prognostic factors in stage-I breast cancer: a retrospective study. Parveen S, et al. **JPMA J Pak Med Assoc** 1997 Apr; 47(4):117-8

Immunoreaction at 43 kDa with anti-ubiquitin antibody in breast neoplasms. Iwaya K, et al. **Jpn J Cancer Res** 1997 Mar;88(3):273-80

Spindle cell carcinoma of the breast. Maemura M, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):46-50

Langerhans' cell histiocytosis with thyroid involvement masquerading as thyroid carcinoma. Wang WS, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):180-4 (17 ref.)

Differences in diagnostic criteria for gastric carcinoma between Japanese and western pathologists [see comments] Schlemper RJ, et al. **Lancet** 1997 Jun 14;349(9067):1725-9 . Comment in: Lancet 1997 Jun 14;349(9067):1711-2.

Sentinel-node biopsy to avoid axillary dissection in breast cancer with clinically negative lymph-nodes. Veronesi U, et al. **Lancet** 1997 Jun 28;349(9069):1864-7

Delphian lymph node in laryngeal carcinoma: a whole organ study. Thaler ER, et al. **Laryngoscope** 1997 Mar; 107(3):332-4

Prostatic carcinoma. Diagnostic pathology and prognosis. Renshaw AA. **Magn Reson Imaging Clin N Am** 1996 Aug; 4(3):439-48 (108 ref.)

Recommendations for the reporting of breast carcinoma. Association of Directors of Anatomic and Surgical Pathology. **Mod Pathol** 1996 Jan;9(1):77-81

bcl-2 expression and the development of endometrial carcinoma. Chhieng DC, et al. **Mod Pathol** 1996 Apr; 9(4):402-6

ras and p53 genes in male breast cancer. Dawson PJ, et al. **Mod Pathol** 1996 Apr;9(4):367-70

Cyclin D1 gene expression in human cervical neoplasia. Nichols GE, et al. **Mod Pathol** 1996 Apr;9(4):418-25

Histologic variants of adenocarcinoma and other carcinomas of prostate: pathologic criteria and clinical significance. Randolph TL, et al. **Mod Pathol** 1997 Jun;10(6):612-29 (133 ref.)

Retinoic acid signaling cascade in differentiating murine epidermal keratinocytes: alterations in papilloma- and carcinoma-derived cell lines. Vettermann O, et al. **Mol Carcinog** 1997 Sep;20(1):58-67

Expression of wild-type alpha-catenin protein in cells with a mutant alpha-catenin gene restores both growth regulation and tumor suppressor activities. Bullions LC, et al. **Mol Cell Biol** 1997 Aug;17(8):4501-8

Protective role of p21(Waf1/Cip1) against prostaglandin A2-mediated apoptosis of human colorectal carcinoma cells. Gorospe M, et al. **Mol Cell Biol** 1996 Dec; 16(12):6654-60

Decreased growth rate and tumour formation of human anaplastic thyroid carcinoma cells transfected with a human thyrotropin receptor cDNA in NMRI nude mice treated with propylthiouracil. Gustavsson B, et al. **Mol Cell Endocrinol** 1996 Aug 9;121(2):143-51

Thyroid nodules and the detection of thyroid cancer. Haber RS. **Mt Sinai J Med** 1996 Jan;63(1):10-5 (13 ref.)

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 32-1996. A 44-year-old woman with a long history of intermittent hypercalcemia, a new neck mass, and hypercalcemic crisis [clinical conference] **N Engl J Med** 1996 Oct 17;335(16):1213-20

Thymosin beta 15: a novel regulator of tumor cell motility upregulated in metastatic prostate cancer [see comments] Bao L, et al. **Nat Med** 1996 Dec;2(12):1322-8. Comment in: Nat Med 1996 Dec;2(12):1305-6.

Correlation of computed tomography with second-look laparotomy in ovarian carcinoma. Sandhu M, et al. **Natl Med J India** 1996 Jan-Feb;9(1):13-6

Intramedullary spinal cord and brain metastases from thyroid carcinoma detected 11 years after initial diagnosis--case report. Honma Y, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):593-7

p53 re-expression inhibits proliferation and restores differentiation of human thyroid anaplastic carcinoma cells. Moretti F, et al. **Oncogene** 1997 Feb 13;14(6):729-40

Ultrastructural and phenotypic characterization of CABA I, a new human ovarian cancer cell line. Dolo V, et al. **Oncol Res** 1997;9(3):129-38

Undifferentiated nasopharyngeal carcinoma: pattern of failure--experience at the Johannesburg Hospital (1989-1994). Stein ME, et al. **Oncology** 1997 Jul-Aug; 54(4):348-9

Spindle cell carcinoma of the larynx and hypopharynx. Olsen KD, et al. **Otolaryngol Head Neck Surg** 1997 Jan; 116(1):47-52

Expression of the antiapoptotic protein bcl-2 is not dependent on the tumor suppressor p53 protein in Indian breast carcinoma. Kesari AL, et al. **Pathobiology** 1997; 65(2):108-12

Role of steroid hormone and growth factor receptors and proto-oncogenes in the behavior of human mammary epithelial cancer cells in vitro. Saxena S, et al. **Pathobiology** 1997;65(2):75-82

Concurrent interfollicular Hodgkin's disease and metastatic breast carcinoma in lymph nodes. Allal AS, et al. **Pathol Int** 1996 Oct;46(10):787-90

Sarcomatoid carcinoma of the small intestine: histologic, immunohistochemical and ultrastructural features of three cases and its differential diagnosis. Fukuda T, et al. **Pathol Int** 1996 Sep;46(9):682-8

Malignant fibrous histiocytoma of the esophagus. Naganuma H, et al. **Pathol Int** 1996 Jun;46(6):462-6

Spindle cell carcinoma of the breast: a case report and an immunohistochemical study including p53 and Ki-67 expression. Nakayama Y, et al. **Pathol Int** 1997 Jun; 47(6):404-11

p53 and Ki-67 immunoreactivity and nuclear morphometry of 'carcinoma-in-adenoma' and adenoma of the gall-bladder [corrected and republished in Pathol Int 1996 Nov;46(11):908-17] Takei K, et al. **Pathol Int** 1996 Jun; 46(6):426-35

p53 and Ki-67 immunoreactivity and nuclear morphometry of 'carcinoma-in-adenoma' and adenoma of the gall-bladder [corrected and republished article originally printed in Pathol Int 1996 Jun; 46(6):426-35] Takei K, et al. **Pathol Int** 1996 Nov;46(11):908-17

Multilocular lymphoepithelial cyst in the thyroid accompanied with a minute thyroid carcinoma. Wtanabe I, et al. **Pathol Int** 1995 Dec;45(12):965-70

Aggressive thyroid carcinoma with predominant cribriform growth pattern. Case report. Akslen LA, et al. **Pathol Res Pract** 1996 Nov;192(11):1129-33; discussion 1134

Disease-free survival of node-positive breast cancer patients. Improved prognostication by cytometrical parameters. Aubele M, et al. **Pathol Res Pract** 1995 Oct;191(10):982-90

Volume estimation of multicellular colon carcinoma spheroids using Cavalieri's principle. Bauer J, et al. **Pathol Res Pract** 1995 Dec;191(12):1192-7

Histopathology of the frozen prostate. The microscopic bases of prostatic carcinoma cryoablation. Falconieri G, et al. **Pathol Res Pract** 1996 Jun;192(6):579-87

Sarcomatoid transitional cell carcinoma of the renal pelvis. A report of five cases with clinical, pathological, immunohistochemical and DNA ploidy analysis. Lopez-Beltran A, et al. **Pathol Res Pract** 1996 Dec; 192(12):1218-24 (27 ref.)

Neutral and acid mucins and eosinophil and argyrophil crystalloids in carcinoma and atypical adenomatous hyperplasia of the prostate. Luna-Moré S, et al. **Pathol Res Pract** 1997;193(4):291-8

Role of stromal myofibroblasts infiltrating colon cancer in tumor invasion. Martin M, et al. **Pathol Res Pract** 1996 Jul;192(7):712-7 (47 ref.)

Gallbladder carcinoma: a video image analysis of AgNOR distribution and its relation to tumour stage and grade. Muscara M, et al. **Pathol Res Pract** 1996 May;192(5):407-13

Carcinoma in basal cell adenoma of the parotid gland. Nagao T, et al. **Pathol Res Pract** 1997;193(3):171-8

Human papilloma virus and P53 overexpression in carcinomas of the uterine cervix, lower uterine segment and endometrium. Hachisuga T, et al. **Pathology** 1996 Jan; 28(1):28-31

Test and teach. Number Eighty. Diagnosis: Malignant eccrine poroma of scalp. Ng WK. **Pathology** 1996 Jan; 28(1):39, 89

Bilateral primary seminal vesicle carcinoma. Ormsby AH, et al. **Pathology** 1996 May;28(2):196-200

Fine needle aspiration cytology in male breast carcinoma. Slavin JL, et al. **Pathology** 1996 May;28(2):122-4

Two case reports of breast carcinoma associated with prolactinoma. Strungs I, et al. **Pathology** 1997 Aug; 29(3):320-3 (29 ref.)

Primary thymic carcinomas. Moran CA, et al. **Pathology (Phila)** 1996;4(1):141-53 (33 ref.)

Retinoids and secosteroids induce gene expression in human colorectal carcinoma-derived cells but the macroscopic-scale effects remain unpredictable. Waliszewska MK, et al. **Pol J Pathol** 1997;48(1):15-24

Molecular aspects of the loss of cell adhesion and gain of invasiveness in carcinomas. Birchmeier W. **Princess Takamatsu Symp** 1994;24:214-32 (113 ref.)

Implication of scatter/growth factors in tumor progression. Boyer B, et al. **Princess Takamatsu Symp** 1994;24:233-42 (16 ref.)

Wild-type p53 triggers a rapid senescence program in human tumor cells lacking functional p53. Sugrue MM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9648-53

Silver-binding nucleolar organizer regions in hepatolithiasis and bile duct cancer. Ker CG. **Proc Natl Sci Counc Repub China B** 1997 Apr;21(2):43-8

Immortalized and tumorigenic adult human prostatic epithelial cell lines: characteristics and applications Part

2. Tumorigenic cell lines. Webber MM, et al. **Prostate** 1997 Jan 1;30(1):58–64 (46 ref.)

Primary carcinomas of the urethra. Amin MB, et al. **Semin Diagn Pathol** 1997 May;14(2):147–60 (55 ref.)

Carcinoma of the urinary bladder: a review of its diverse morphology. Eble JN, et al. **Semin Diagn Pathol** 1997 May; 14(2):98–108 (108 ref.)

Clear cell tumors of the salivary glands, jaws, and oral mucosa. Maiorano E, et al. **Semin Diagn Pathol** 1997 Aug; 14(3):203–12 (80 ref.)

Pathology of parathyroid tumors. Grimelius L, et al. **Semin Surg Oncol** 1997 Mar–Apr;13(2):142–54 (62 ref.)

Neuroendocrine differentiation in non–neuroendocrine thyroid carcinoma. Kargi A, et al. **Thyroid** 1996 Jun; 6(3):207–10

Familial nonmedullary thyroid carcinoma: a meta–review of case series. Loh KC. **Thyroid** 1997 Feb;7(1):107–13

Ovarian epithelial borderline tumor and carcinoma in young women. Morimura Y, et al. **Tohoku J Exp Med** 1996 Dec; 180(4):319–26

Determination of growth fraction index in mammary carcinoma using MIB–1 monoclonal antibody: estimation of whole tumor proliferative potential using biopsy specimens. Oda K, et al. **Tokai J Exp Clin Med** 1995 Jul; 20(2):81–8

Poorly differentiated carcinoma of the parotid gland in a six–week–old Sprague–Dawley rat. Tsunenari I, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):225–8

Tumoricidal activity of antiseptics with assessment of cell viability in mice with severe combined immunodeficiency. Basha G, et al. **Tumour Biol** 1997;18(4):213–8

Myoepithelial carcinoma arising in a benign myoepithelioma: immunohistochemical, ultrastructural, and flow–cytometrical study. Bombí JA, et al. **Ultrastruct Pathol** 1996 Mar–Apr;20(2):145–54 (24 ref.)

[The relationship between simple and atypical endometrial hyperplasia and endometrial carcinoma] Borisov I, et al. **Akush Ginekol (Sofiia)** 1996;35(4):18–20 (Eng. Abstr.) **(Bul)**

[The importance of histological verification in the conservative surgery of breast cancer] Marinova L, et al. **Khirurgiia (Sofiia)** 1996;49(4):42–5 (Eng. Abstr.) **(Bul)**

[A breast nodule in a 5–year–old girl] Michenet P, et al. **Ann Pathol** 1996;16(3):217–8 **(Fre)**

[Is hemithyroidectomy as standard intervention of suspicious puncture cytology justified?] Friedrich J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:189–91 (Eng. Abstr.) **(Ger)**

[The staging of rectal tumors with endorectal study technics: the demonstration of a possible source of error] Gossmann A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):96–8 (7 ref.) **(Ger)**

[Lymph node staging in cervix carcinomas: the results of high–resolution magnetic resonance tomography (MRT) with a phased–array body coil] Heuck A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):210–4 (Eng. Abstr.) **(Ger)**

[Absence of herpesvirus saimiri STPC oncogene in salivary gland tumors and epithelial thymus tumors] Gattenlöhner S, et al. **Verh Dtsch Ges Pathol** 1996;80:312–7 (Eng. Abstr.) **(Ger)**

[Biological bases of the colorectal adenoma–carcinoma sequence (editorial)] Stella S, et al. **G Chir** 1996 Oct; 17(10):473–6 **(Ita)**

[Carcinoma of the endometrium: a neoplasm on the increase. Its staging and treatment: a proposed protocol] Baiocchi G, et al. **Minerva Ginecol** 1997 Jan–Feb;49(1–2):1–5 (Eng. Abstr.) **(Ita)**

[Myoepithelial–epithelial carcinoma of the parotid: cyto–histological description of a case] Zocchi M, et al. **Pathologica** 1995 Oct;87(5):534–38 (Eng. Abstr.) **(Ita)**

[The point of view of otolaryngologist and head and neck surgeon on thyroid diseases] Betkowski A, et al. **Otolaryngol Pol** 1995;49(6):574–82 (Eng. Abstr.) **(Pol)**

[Carcinoma of the soft palate] Hassmann–Poznańska E, et al. **Otolaryngol Pol** 1996;50(5):485–9 (Eng. Abstr.) **(Pol)**

[The clinical significance of metastatic cancer of the larynx to the Delphi node] Modrzejewski M, et al. **Otolaryngol Pol** 1996;50(2):156–61 (Eng. Abstr.) **(Pol)**

[Multiple primaries in head and neck malignant neoplasms] Osuch–Wójcikiewicz E, et al. **Otolaryngol Pol** 1996; 50(6):587–91 (Eng. Abstr.) **(Pol)**

[Dependence of the features of distant metastases and prognosis of stomach cancer on the histologic type of the primary tumor and the volume of regional lymph node metastases] Iushkov PV. **Arkh Patol** 1996 Jul–Aug; 58(4):36–8 (Eng. Abstr.) **(Rus)**

[Metachronous cancer of the gastro–intestinal tract with signs of endocrine–cell differentiation] Turbin DA, et al. **Arkh Patol** 1996 Jul–Aug;58(4):28–32 (Eng. Abstr.) **(Rus)**

[The clinico–morphological characteristics, diagnosis and treatment of early stomach cancer] Simonov NN, et al. **Vestn Khir Im I I Grek** 1997;156(1):28–31 (Eng. Abstr.) **(Rus)**

[Parapharyngeal carcinoma of the larynx: current clinical and pathological aspects and reports of a clinical case] Mariño Espuelas J, et al. **Acta Otorrinolaringol Esp** 1997 Apr; 48(3):232–5 (Eng. Abstr.) **(Spa)**

[Sarcomatoid renal carcinoma] Martinez Jabaloyas JM, et al. **Actas Urol Esp** 1996 Oct;20(9):800–5 (Eng. Abstr.) **(Spa)**

[Granular cell bronchial myoblastoma associated with carcinoma (letter)] Atorrasagasti NM, et al. **Arch Bronconeumol** 1996 Jan;32(1):50–1 **(Spa)**

[Cytohistological agreement of fine–needle transthoracic lung puncture–aspiration (FNTLPA) in malignant lesions] Hernández Borge J, et al. **Arch Bronconeumol** 1997 May; 33(5):225–9 (Eng. Abstr.) **(Spa)**

[Glassy cell carcinoma of the uterine cervix] Dorfman S, et al. **Rev Med Panama** 1996 Jan–May;21(1–2):71–5 (Eng. Abstr.) **(Spa)**

[Carcinomatosis of the choroid plexus: clinical case and necropsy findings] Leiva C, et al. **Rev Neurol** 1997 Jul; 25(143):1072–5 (Eng. Abstr.) **(Spa)**

[The nature of the metastasis in different histological forms of kidney cancer] Lytvynets' IeA, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):157–8 (Eng. Abstr.) **(Ukr)**

PHYSIOPATHOLOGY

Epithelial–mesenchymal transitions in cancer progression. Birchmeier C, et al. **Acta Anat (Basel)** 1996;156(3):217–26 (102 ref.)

Immunohistochemical study suggesting a complementary role of kallikreins hK2 and hK3 (prostate–specific antigen) in the functional analysis of human prostate tumors. Tremblay RR, et al. **Am J Pathol** 1997 Feb;150(2):455–9

Experimentally induced changes in the endocytic traffic of P–glycoprotein alter drug resistance of cancer cells. Kim H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C687–702

Adrenocortical neoplasms: role of prognostic markers MIB–1, P53, and RB. Vargas MP, et al. **Am J Surg Pathol** 1997 May;21(5):556–62

p53 status does not affect sensitivity of human ovarian cancer cell lines to paclitaxel. Debernardis D, et al. **Cancer Res** 1997 Mar 1;57(5):870–4

Changes in gap junctional intercellular communication in mouse skin carcinogenesis. Holden PR, et al. **Carcinogenesis** 1997 Jan;18(1):15–21

Retinoids inhibit adhesion to laminin in human pancreatic carcinoma cells via the alpha 6 beta 1–integrin receptor. Rosewicz S, et al. **Gastroenterology** 1997 Feb;112(2):532–42

Does the disease state influence the responsiveness of human airways studied in vitro? Armour CL, et al. **J Appl Physiol** 1996 Jun;80(6):2211–6

Major DNA fragmentation is a late event in apoptosis. Collins JA, et al. **J Histochem Cytochem** 1997 Jul;45(7):923–34

Regression of established tumors expressing P–glycoprotein by combinations of adriamycin, cyclosporin derivatives, and MRK–16 antibodies. Watanabe T, et al. **J Natl Cancer Inst** 1997 Apr 2;89(7):512–8

Retinoic acid signaling cascade in differentiating murine epidermal keratinocytes: alterations in papilloma– and carcinoma–derived cell lines. Vettermann O, et al. **Mol Carcinog** 1997 Sep;20(1):58–67

Chloride: an anaplastic anion? [see comments] Richerson GB. **Neuroreport** 1996 Apr 10;7(5):969–70. Comment in: Neuroreport 1996 Apr 10;7(5):1020–4.

Profilin gene expression and regulation in a temperature–sensitive breast cancer cell line: tsFT101. Cao Y, et al. **Pflugers Arch** 1997 Aug;434(4):341–5

Invasive carcinomas dismantle surrounding stroma induced to express the nuclear factor c–ets–1. Stehelin D. **Princess Takamatsu Symp** 1994;24:171–86 (48 ref.)

Effects of the calciotrophic peptides calcitonin and parathyroid hormone on prostate cancer growth and chemotaxis. Ritchie CK, et al. **Prostate** 1997 Feb 15; 30(3):183–7

Prognostic criteria in nonfunctioning pancreatic endocrine tumours. La Rosa S, et al. **Virchows Arch** 1996 Dec; 429(6):323–33

PREVENTION & CONTROL

Food and phytochemicals, magic bullets and measurement error: a commentary [comment] Potter JD. **Am J Epidemiol** 1996 Dec 1;144(11):1026–7. Comment on: Am J Epidemiol 1995 Dec 1;144(11):1005–14. Comment on: Am J Epidemiol 1996 Dec 1;144(11):1015–25.

Prevention of thyroid neoplasm recurrence with Triac and levothyroxine [letter] Pujol P, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):121–2

Chemoprevention of respiratory tract cancer. Khuri FR, et al. **Hematol Oncol Clin North Am** 1997 Jun;11(3):387–408 (72 ref.)

UK cervical cancer screening programme: setting a research agenda. Davies C, et al. **J Med Screen** 1994 Oct;1(4):249–54

Construction and characterisation of a recombinant vaccinia virus expressing human papillomavirus proteins for immunotherapy of cervical cancer. Boursnell ME, et al. **Vaccine** 1996 Nov;14(16):1485–94

[Parsimony and secondary cancer prevention (editorial)] Segnan N. **Epidemiol Prev** 1995 Dec;19(65):293–6 **(Ita)**

RADIOGRAPHY

Small depressed neoplasms of the large bowel: radiographic visualization and clinical significance. Fujiya M, et al. **Abdom Imaging** 1997 May–Jun;22(3):325–31

Metaplastic carcinoma of the breast: mammographic appearance with pathologic correlation. Patterson SK, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):709–12

Lesion detection in breast carcinoma. Mortier M, et al. **J Belge Radiol** 1997 Apr;80(2):85–8 (13 ref.)

Intratumoral necrosis of lung carcinoma: a potential diagnostic pitfall in incremental dynamic computed tomography analysis of solitary pulmonary nodules? Yamashita K, et al. **J Thorac Imaging** 1997 Jul;12(3):181–7

The radiologic appearance of lung cancer. O'Donovan PB. **Oncology (Huntingt)** 1997 Sep;11(9):1387–402; discussion 1402–4 (47 ref.)

RADIONUCLIDE IMAGING

Value of 99m–Tc MIBI and 99m–Tc(V) DMSA scintigraphy in evaluation of breast mass lesions. Ambrus E, et al. **Anticancer Res** 1997 May–Jun;17(3B):1599–605

The usefulness of technetium–99m–MIBI scintimammography in diagnosis of breast cancer: using surgical histopathologic diagnosis as the gold standard. Chen SL, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1695–8

The role of Compton background and breast compression on cancer detection in scintimammography. Pani R, et al. **Anticancer Res** 1997 May–Jun;17(3B):1645–9

Role of MIBI breast scintigraphy in evaluation of palpable breast lesions. Lam WW, et al. **Br J Radiol** 1996 Dec; 69(828):1152–8

Quantitative analysis of In–111 satumomab pendetide immunoscintigraphy. An aid to visual interpretation of images in patients with suspected carcinomatosis. Neal CE, et al. **Clin Nucl Med** 1996 Aug;21(8):638–42

A comparative study of technetium–99m sestamibi and technetium–99m tetrofosmin single–photon tomography in the detection of nasopharyngeal carcinoma. Kostakoglu L, et al. **Eur J Nucl Med** 1997 Jun;24(6):621–8

Thallium–201 single–photon emission tomography in the treatment follow–up of nasopharyngeal carcinoma. Togawa T, et al. **Eur J Nucl Med** 1997 Mar;24(3):305–11

Fluorine–18 fluoromisonidazole tumour to muscle retention ratio for the detection of hypoxia in nasopharyngeal carcinoma. Yeh SH, et al. **Eur J Nucl Med** 1996 Oct; 23(10):1378–83

Technetium–99m–sestamibi uptake in axillary lymph node metastases in breast cancer patients. Perre CI, et al. **Eur J Surg Oncol** 1997 Apr;23(2):142–4

Parathyroid carcinoma with metastatic calcification identified by technetium–99m methylene diphosphonate scintigraphy. Aso Y, et al. **Intern Med** 1996 May;35(5):392–5

Technetium–99m–MIBI scintigraphy of thyroid nodules in an endemic goiter area. Kresnik E, et al. **J Nucl Med** 1997 Jan;38(1):62–5

Sandostatin labeled with 99mTc: in vitro stability, in vivo validity and comparison with 111In–DTPA–octreotide. Kolan H, et al. **Pept Res** 1996 May–Jun;9(3):144–50

Reduced beta adrenoceptor density in vivo in human lung tumours: a preliminary study with positron emission tomography. Qing F, et al. **Thorax** 1996 Jul;51(7):727–32

[Influence on extratumoral organ activities of tumor–affinity samarium–153 preparations] Schomäcker K, et al. **Nuklearmedizin** 1997 Mar;36(2):47–51 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

Localised bullous pemphigoid following radiotherapy [letter] Cliff S, et al. **Acta Derm Venereol** 1996 Jul;76(4):330–1 (15 ref.)

Postoperative irradiation of laryngeal carcinoma––the prognostic value of tumour–free surgical margins. Naudé J, et al. **Acta Oncol** 1997;36(3):273–7

Radiation–induced temporal lobe necrosis [letter] Chong VE, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):784–5

Lung carcinoma–M0. Patterns and results of radiotherapy of all patients referred to one department. Abadir R, et al. **Am J Clin Oncol** 1996 Oct;19(5):512–6

Pilot study of concurrent chemotherapy and radiotherapy for stage IV nasopharyngeal cancer. Lin JC, et al. **Am J Clin Oncol** 1997 Feb;20(1):6–10

Patient profile and survival in 270 computer tomography–staged patients with nasopharyngeal cancer treated at the Singapore General Hospital. Fong KW, et al. **Ann Acad Med Singapore** 1996 May;25(3):341–6

Ocular neuromyotonia––an unusual ocular motility complication after radiation therapy for nasopharyngeal carcinoma. Fu ER. **Ann Acad Med Singapore** 1995 Nov; 24(6):895–7

The role of radiotherapy in endometrial carcinoma. Grigsby PW. **Ann Acad Med Singapore** 1996 May;25(3):437–40 (20 ref.)

Radiotherapy in the management of thyroid cancer. Harmer CL. **Ann Acad Med Singapore** 1996 May;25(3):413–9 (28 ref.)

Hypoxic sensitizer and cytotoxin for head and neck cancer. Lee DJ, et al. **Ann Acad Med Singapore** 1996 May; 25(3):397–404 (42 ref.)

Organ preservation approaches with radiation therapy in muscle–invasive bladder carcinoma. Liu MC, et al. **Ann Acad Med Singapore** 1996 May;25(3):441–7 (58 ref.)

Is there a place for whole abdominal radiotherapy in the management of ovarian cancer? Morton GC, et al. **Ann Acad Med Singapore** 1996 May;25(3):429–36 (68 ref.)

Altered fractionated radiation therapy for head and neck carcinomas––A Massachusetts General Hospital experience. Wang CC. **Ann Acad Med Singapore** 1996 May; 25(3):335–40 (21 ref.)

Combined concomitant boost radiotherapy and chemotherapy in stage III–IV head and neck carcinomas:

a comparison of toxicity and treatment results with those observed after radiotherapy alone. Allal AS, et al. **Ann Oncol** 1997 Jul;8(7):681–4

Morbidity of combined therapy for the treatment of supraglottic carcinoma: supraglottic laryngectomy and radiotherapy. Steiniger JR, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):151–8

Safety of esophagoscopy in the irradiated esophagus. Wax MK, et al. **Ann Otol Rhinol Laryngol** 1997 Apr; 106(4):297–300

Results of surgical salvage of locoregional recurrence of carcinoma of the tongue after radiotherapy failure. Yuen AP, et al. **Ann Otol Rhinol Laryngol** 1997 Sep;106(9):779–82

Serum soluble interleukin 2 receptor alpha and soluble CD8 levels in patients with gynecological malignancies undergoing radiotherapy. Frydecka I, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2–3):123–6

Plaque radiotherapy for the management of uveal metastasis. Shields CL, et al. **Arch Ophthalmol** 1997 Feb;115(2):203–9

A 10-year longitudinal study of tubal function in patients with nasopharyngeal carcinoma after irradiation. Young YH, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep; 123(9):945–8

Radical chemoradiotherapy for elderly patients with bladder carcinoma invading muscle. Arias F, et al. **Cancer** 1997 Jul 1;80(1):115–20

Delayed/salvage radiation therapy in patients with elevated prostate specific antigen levels after radical prostatectomy. A long term follow-up. Medini E, et al. **Cancer** 1996 Sep 15;78(6):1254–9

Prospective randomized clinical trial to evaluate the optimal dose of 131I for remnant ablation in patients with differentiated thyroid carcinoma [letter; comment] Taube A, et al. **Cancer** 1997 Jan 1;79(1):190–1. Comment on: Cancer 1996 Jun 15;77(12):2574–80.

A linear quadratic analysis of gynaecological brachytherapy. Dodds D, et al. **Clin Oncol (R Coll Radiol)** 1996;8(2):90–6

Factors affecting acute skin toxicity in patients having breast irradiation after conservative surgery: a prospective study of treatment practice at the Royal Marsden Hospital. Fernando IN, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(4):226–33

A retrospective study of the role of intracavitary brachytherapy and prognostic factors determining local tumour control after primary radical radiotherapy in 903 non-disseminated nasopharyngeal carcinoma patients. Teo PM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):160–6

Endometrial carcinoma: adjuvant locoregional therapy. Thomas R, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):140–5 (51 ref.)

Enhanced effectiveness of photodynamic therapy with laser light fractionation in patients with esophageal cancer. Messmann H, et al. **Endoscopy** 1997 May;29(4):275–80

Quantitative analysis of voice quality in early glottic laryngeal carcinomas treated with radiotherapy. Dagli AS, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):78–80

A comparative study of undifferentiated nasopharyngeal carcinoma treated with radiotherapy or combined treatment with zorubicin–cisplatin and radiotherapy. Pendjer I, et al. **Eur Arch Otorhinolaryngol Suppl** 1997; 1:S127–9

Multifractionated high-dose-rate brachytherapy with concomitant daily teletherapy for cervical cancer. Han I, et al. **Gynecol Oncol** 1996 Oct;63(1):71–7

Effects of irradiation on the expression of surface antigens in human ovarian cancer. Santin AD, et al. **Gynecol Oncol** 1996 Mar;60(3):468–74

Hydroxyurea, 5-fluorouracil infusion, and cisplatin adjunct to radiation therapy in cervical carcinoma: a phase I–II trial of the Gynecologic Oncology Group. Stehman FB, et al. **Gynecol Oncol** 1997 Aug;66(2):262–7

Angiosarcomas of the breast developing post radiotherapy. Parham DM, et al. **Histopathology** 1997 Aug;31(2):189–95

Hprt- mutation spectrum in a closely related pair of human bladder tumour cell lines after gamma-irradiation at different dose-rates. Edwards SM, et al. **Int J Radiat Biol** 1997 Feb;71(2):177–84

Definitive radiotherapy for early glottic carcinoma: prognostic factors and implications for treatment. Burke LS, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1; 38(1):37–42

Clinical science and patient care: lessons from cooperative randomized clinical trials [editorial; comment] Cox JD. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):273–4. Comment on: Int J Radiat Oncol Biol Phys 1997 Sep 1;39(2):275–81.

Adjuvant radiation for vulvar carcinoma: improved local control. Faul CM, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):381–9

Analysis of prognostic factors in stage IIB–IVA cervical carcinoma treated with radiation therapy: value of computed tomography. Ogino I, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1071–7

Management of thyroid carcinoma with radioactive 131I [see comments] Paryani SB, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):83–6. Comment in: Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):263–5.

Carcinoma of the nasopharynx treated by radiotherapy alone: determinants of local and regional control [see comments] Sanguineti G, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):985–96. Comment in: Int J Radiat Oncol Biol Phys 1997 Mar 15;37(5):973–4.

Tumor control probability of nasopharyngeal carcinoma: a comparison of different mathematical models. Wu PM, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):913–20

Case report: primary cystic keratinizing squamous cell carcinoma of the liver in a patient with treated nasopharyngeal carcinoma. Chou YY, et al. **J Gastroenterol Hepatol** 1997 Mar;12(3):229–32

Combined infusional chemotherapy and radiation for esophageal carcinoma: a review. Chauveinc L, et al. **J Infus Chemother** 1995 Fall;5(4):215–7 (25 ref.)

Intracavitary irradiation of nasopharyngeal carcinoma using Ir-192 in Foley's catheter. Pattaranutaporn P, et al. **J Med Assoc Thai** 1996 Jan;79(1):31–5

Biological dosimetry in patients treated with iodine-131 for differentiated thyroid carcinoma. M'Kacher R, et al. **J Nucl Med** 1996 Nov;37(11):1860–4

Midline shield for radiation therapy of carcinoma of the uterine cervix: should it be "midline" or "individualized". Datta NR, et al. **Med Dosim** 1997 Summer;22(2):139–45

Combined radiation and chemotherapy for advanced undifferentiated nasopharyngeal carcinoma in children. Strojan P, et al. **Med Pediatr Oncol** 1997 May;28(5):366–9

Intraoperative radiation therapy and chemotherapy for huge choroid plexus carcinoma in an infant--case report. Kumabe T, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):179–84

Definitive radiation management for carcinoma of the glottic larynx. Moose BD, et al. **Otolaryngol Clin North Am** 1997 Feb;30(1):131–43 (66 ref.)

Low vascular density indicates poor response to radiotherapy in small glottic carcinomas. Jenssen N, et al. **Pathol Res Pract** 1996 Nov;192(11):1090–4

Influence of immediate post-therapy bone scintigraphy in the assessment of response to therapy in a case of nasopharyngeal carcinoma. Kostakoglu L, et al. **Radiat Med** 1996 Sep–Oct;14(5):279–81

External radiation therapy of prostatic carcinoma and its relationship to hormonal therapy. Takada C, et al. **Radiat Med** 1995 Nov–Dec;13(6):297–300

Dosimetry of intracavitary applications in carcinoma of the cervix: rectal dose analysis. Deshpande DD, et al. **Radiother Oncol** 1997 Feb;42(2):163–6

Identification of intermediate-risk prostate cancer patients treated with radiotherapy suitable for neoadjuvant hormone studies. Duchesne GM, et al. **Radiother Oncol** 1996 Jan;38(1):7–12

Carcinoma of the cervix: analysis of complications after primary external beam radiation and Ir-192 HDR brachytherapy. Kapp KS, et al. **Radiother Oncol** 1997 Feb; 42(2):143–53

Evaluation of late morbidity in patients with carcinoma of the uterine cervix following a dose rate change. Rodrigus P, et al. **Radiother Oncol** 1997 Feb;42(2):137–41

Intracavitary brachytherapy for carcinoma of the esophagus. Micaily B, et al. **Semin Surg Oncol** 1997 May–Jun; 13(3):185–9 (31 ref.)

Radiation therapy for early glottic carcinoma (T1N0M0). The final results of prospective randomized study concerning radiation field. Chatani M, et al. **Strahlenther Onkol** 1996 Mar;172(3):169–72

Brachytherapy for prostate cancer: real-time three-dimensional interactive seed implantation. Stone NN, et al. **Tech Urol** 1995 Summer;1(2):72–80

Iridium 192 high-dose-rate brachytherapy--a useful alternative therapy for localized prostate cancer? Paul R, et al. **World J Urol** 1997;15(4):252–6

[Patients with early stages of endometrial cancer should be spared adjuvant radiotherapy. Danish Endometrial Cancer Group] Poulsen HK, et al. **Ugeskr Laeger** 1997 May 26; 159(22):3403–7 (Eng. Abstr.) **(Dan)**

[In cervical carcinoma pelvic tumor control improves the cure rate. Can the benefit of irradiation without a randomized study be proved?] Bahnsen J. **Strahlenther Onkol** 1997 Aug;173(8):432–3 **(Ger)**

[The different depths of inguinal lymph nodes and their importance in the planning of the irradiation of vulvar carcinoma] Bahnsen J. **Strahlenther Onkol** 1996 Mar; 172(3):175–6 **(Ger)**

[Supportive treatment with megestrol acetate during radio(chemo)therapy in patients with tumors in the head-neck area. A randomized study] Fietkau R, et al. **Strahlenther Onkol** 1996 Mar;172(3):162–8 (Eng. Abstr.) **(Ger)**

[The development of radiotherapy in cervical carcinoma at the University Clinic of Rostock] Schwarz R. **Strahlenther Onkol** 1997 Jan;173(1):18–22 (Eng. Abstr.) **(Ger)**

[Planned 3-dimensional low-volume conformal irradiation of a local prostatic carcinoma] Wachter S, et al. **Strahlenther Onkol** 1997 May;173(5):253–60 (Eng. Abstr.) **(Ger)**

[The conformal radiotherapy of localized prostatic carcinoma: acute tolerance and early efficacy] Zierhut D, et al. **Strahlenther Onkol** 1997 Feb;173(2):98–105 (Eng. Abstr.) **(Ger)**

[Tuberculoid caseating necrosis of cervical lymph nodes. Ultrasound after radiochemotherapy of undifferentiated nasopharyngeal carcinoma] Friedrich RE, et al. **Ultraschall Med** 1996 Oct;17(5):253–6 (Eng. Abstr.) **(Ger)**

[Radiation treatment in the carcinoma of paranasal sinuses and nasal cavity] Antonello M, et al. **Acta Otorhinolaryngol Ital** 1996 Aug;16(4):347–54 (Eng. Abstr.) **(Ita)**

[Endocavitary radiotherapy of distal rectal tumors] Tanum G, et al. **Tidsskr Nor Laegeforen** 1997 Feb 20;117(5):654–6 (Eng. Abstr.) **(Nor)**

SECONDARY

Peritoneal carcinomatosis. Ricke J, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):235–6

Esophageal carcinoma metastatic to the retina. Diagnosis of a case by cytologic examination of intraocular vitreous washings. Cangiarella JF, et al. **Acta Cytol** 1996 Sep–Oct; 40(5):995–8

Metastases to the breast from extramammary neoplasms. A report of six cases with diagnosis by fine needle aspiration cytology. Domanski HA. **Acta Cytol** 1996 Nov–Dec; 40(6):1293–300

Sebaceous carcinoma of the eyelid with metastasis to the parotid region: diagnosis by fine needle aspiration cytology [letter] Mandreker S, et al. **Acta Cytol** 1997 Sep–Oct; 41(5):1636–7

Penile metastases from bladder carcinoma [letter] Filosa G, et al. **Acta Derm Venereol** 1996 May;76(3):250–1

Multiple calcified brain metastases revealing a lung carcinoma. Duval L, et al. **Acta Neurol Belg** 1996 Dec; 96(4):312–5

Frequency of unexpected multifocal metastasis in patients with acute spinal cord compression. Evaluation by low-field MR imaging in cancer patients. Heldmann U, et al. **Acta Radiol** 1997 May;38(3):372–5

Metaplastic carcinoma of the breast: mammographic appearance with pathologic correlation. Patterson SK, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):709–12

Epidermotropically metastatic breast carcinomas. Rare histopathologic variants mimicking melanoma and Paget's disease. Requena L, et al. **Am J Dermatopathol** 1996 Aug; 18(4):385–95

Hepatic resection of liver metastases from gastric carcinoma. Miyazaki M, et al. **Am J Gastroenterol** 1997 Mar; 92(3):490–3

Metastatic carcinoma of the temporal bone. Streitmann MJ, et al. **Am J Otol** 1996 Sep;17(5):780–3

Metastasis to the parotid gland: is a radical surgical approach justified? Jecker P, et al. **Am J Otolaryngol** 1996 Mar–Apr; 17(2):102–5

Correlation of metastasis-related gene expression with metastatic potential in human prostate carcinoma cells implanted in nude mice using an in situ messenger RNA hybridization technique. Greene GF, et al. **Am J Pathol** 1997 May;150(5):1571–82

Enhancement of gene therapy specificity for diffuse colon carcinoma liver metastases with recombinant herpes simplex virus. Carroll NM, et al. **Ann Surg** 1996 Sep; 224(3):323–9; discussion 329–30

Salvage neck dissection for cervical recurrence of nasopharyngeal carcinoma. Yen KL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):725–9

Experimental study on the role of osteoclasts and free radicals in the mandibular invasion of VX2 carcinoma in Japanese white rabbits. Fujimiya K, et al. **Bone** 1997 Mar; 20(3):245–50

Predictors of axillary lymph node metastases in patients with T1 breast carcinoma [see comments] Barth A, et al. **Cancer** 1997 May 15;79(10):1918–22. Comment in: Cancer 1997 May 15;79(10):1856–64.

Use of primary breast carcinoma characteristics to predict lymph node metastases [editorial; comment] [published erratum appears in Cancer 1997 Jun 15;79(12):2482] Cady B. **Cancer** 1997 May 15;79(10):1856–61; discussion 1862–4 . Comment on: Cancer 1997 May 15;79(10):1918–22.

Risk factors for distant metastases from carcinoma of the parotid gland. Gallo O, et al. **Cancer** 1997 Sep 1; 80(5):844–51

Prostate carcinoma staging. Clinical utility of bone alkaline phosphatase in addition to prostate specific antigen. Morote J, et al. **Cancer** 1996 Dec 1;78(11):2374–8

Histologic characteristics of breast cancers with occult lymph node metastases detected by keratin 19 mRNA reverse transcriptase-polymerase chain reaction. Noguchi S, et al. **Cancer** 1996 Sep 15;78(6):1235–40

Induction of fibroblast gelatinase B expression by direct contact with cell lines derived from primary tumor but not from metastases. Segain JP, et al. **Cancer Res** 1996 Dec 1;56(23):5506–12

Strategies for treatment of occult carcinomas of the endobronchus [editorial; comment] Speiser BL. **Chest** 1997 May;111(5):1158–61. Comment on: Chest 1997 May;111(5):1417–23.

Blood vessels in liver metastases from both sarcoma and carcinoma lack perivascular innervation and smooth muscle cells. Ashraf S, et al. **Clin Exp Metastasis** 1997 Sep; 15(5):484–98

Kupffer cells and pit cells are not effective in the defense against experimentally induced colon carcinoma metastasis in rat liver. Griffini P, et al. **Clin Exp Metastasis** 1996 Sep; 14(4):367–80

Metastasizing extraneural tumors along the CSF pathway. Lee JY, et al. **Clin Neuropathol** 1997 May–Jun;16(3):117–21 (15 ref.)

Pyridinium crosslinks in the monitoring of patients with bone metastases from carcinoma of the breast. Walne AJ, et al.

Clin Oncol (R Coll Radiol) 1997;9(1):30–4

Non-squamous malignancy in lymph nodes: the occult primary. Jones AS, et al. **Clin Otolaryngol** 1993 Aug; 18(4):311–6

Epithelial differentiation and the control of metastasis in carcinomas. Birchmeier W, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):117–35 (163 ref.)

Poorly differentiated carcinoma (insular carcinoma) of the thyroid diagnosed by fine needle aspiration (FNA). Pereira EM, et al. **Cytopathology** 1996 Feb;7(1):61–5

Incidence and patterns of recurrence following curative resection for colorectal carcinoma. Obrand DI, et al. **Dis Colon Rectum** 1997 Jan;40(1):15–24

Selective chemoembolization in the management of hepatic metastases in refractory colorectal carcinoma: a phase II trial. Sanz-Altamira PM, et al. **Dis Colon Rectum** 1997 Jul; 40(7):770–5

The effects of growth factors associated with osteoblasts on prostate carcinoma proliferation and chemotaxis: implications for the development of metastatic disease. Ritchie CK, et al. **Endocrinology** 1997 Mar;138(3):1145–50

Surgical treatment strategy for thyroid gland carcinoma nodal metastases. Betka J, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S169–74

ACTH-producing carcinoma of the pituitary with haematogenic metastases. Garrão AF, et al. **Eur J Endocrinol** 1997 Aug;137(2):176–80

Subcutaneous metastasis from an ovarian carcinoma disappeared following tamoxifen therapy. Flam F, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Feb;64(2):225–6

Identification of carcinoembryonic antigen-producing cells circulating in the blood of patients with colorectal carcinoma by reverse transcriptase polymerase chain reaction. Jonas S, et al. **Gut** 1996 Nov;39(5):717–21

Successful treatment of brain metastases from ovarian cancer using gamma-knife radiosurgery. Kawana K, et al. **Gynecol Oncol** 1997 May;65(2):357–9

Palliative treatment with low-dose continuous infusion 5-fluorouracil in recurrent and/or metastatic undifferentiated nasopharyngeal carcinoma type. Fandi A, et al. **Head Neck** 1997 Jan;19(1):41–7

Value of resection of pulmonary metastases in head and neck cancer patients. Wedman J, et al. **Head Neck** 1996 Jul–Aug; 18(4):311–6

Metastatic potential of colorectal adenoma containing carcinoma determined by pre-operative assessment of morphology. Orita H, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):452–7

Cutaneous metastases from anaplastic thyroid carcinoma. Taniguchi S, et al. **Int J Dermatol** 1996 Aug;35(8):574–5

Correlation of pretherapy prostate cancer characteristics with seminal vesicle invasion in radical prostatectomy specimens. Pisansky TM, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):585–91

Aldosterone-producing adrenocortical carcinoma metastases found seven years after adrenalectomy. Sakai N, et al. **Int J Urol** 1997 Jan;4(1):79–82

A case of testicular metastasis from carcinoma of the prostate. D'Amico A, et al. **Int Urol Nephrol** 1995;27(5):593–6 (23 ref.)

Thyroid carcinoma metastatic to the skin: a cutaneous manifestation of a widely disseminated malignancy. Dahl PR, et al. **J Am Acad Dermatol** 1997 Apr;36(4):531–7 (40 ref.)

Role of milky spots as selective implantation sites for malignant cells in peritoneal dissemination in mice. Tsujimoto H, et al. **J Cancer Res Clin Oncol** 1996; 122(10):590–5

Carcinoma of unknown primary site: treatment with 1-hour paclitaxel, carboplatin, and extended-schedule etoposide. Hainsworth JD, et al. **J Clin Oncol** 1997 Jun;15(6):2385–93

Limitations of reverse-transcriptase polymerase chain reaction analyses for detection of micrometastatic epithelial cancer cells in bone marrow. Zippelius A, et al. **J Clin Oncol** 1997 Jul;15(7):2701–8

Laparoscopic diagnosis of malignant retroperitoneal fibrosis. Kava BR, et al. **J Endourol** 1996 Dec;10(6):535–8

A practical approach to ultrasound of cervical lymph nodes. Ahuja A, et al. **J Laryngol Otol** 1997 Mar;111(3):245–56

"Miliary" metastatic tumors in the brain. Case report. Bhushan C. **J Neurosurg** 1997 Mar;86(3):564–6

Consistent hepatic metastasis of human colorectal cancer in severe combined immunodeficient mice. Bumpers HL, et al. **J Surg Res** 1996 Feb 15;61(1):282–8

Successful radical surgery for an undifferentiated gallbladder carcinoma with lymph node metastases to the mesocolon. Ota T, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):484–7

Cerebral metastasis of parathyroid carcinoma. Yamamoto T, et al. **Neurol Med Chir (Tokyo)** 1996 Feb;36(2):96–8

Recurrent ovarian tumor with low malignant potential and cardiac metastasis. Basil JB, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):854–6

Delineation of antigenic pathways of ethionine-induced liver cancer in the rat. Hixson DC, et al. **Pathobiology** 1996; 64(2):79–90

Disease-free survival of node-positive breast cancer patients. Improved prognostication by cytometrical parameters. Aubele M, et al. **Pathol Res Pract** 1995 Oct;191(10):982–90

US case of the day. Skeletal metastasis from poorly differentiated carcinoma of unknown origin. Cooke KS, et al. **Radiographics** 1997 Mar–Apr;17(2):542–4

Single-agent paclitaxel as first-line treatment of metastatic breast cancer: the British experience. Davidson NG. **Semin Oncol** 1996 Oct;23(5 Suppl 11):6–10

Colorectal cancer and peritoneal carcinomatosis. Cintron JR, et al. **Semin Surg Oncol** 1996 Jul–Aug;12(4):267–78 (17 ref.)

Management of pulmonary metastases from colorectal cancer. Vigneswaran WT. **Semin Surg Oncol** 1996 Jul–Aug; 12(4):264–6 (19 ref.)

Local and regional recurrence of carcinoma of the colon and rectum: II. Factors relating to operative technique. Lee YT. **Surg Oncol** 1996 Feb;5(1):1–13 (71 ref.)

Gastric cancer with carcinoma erysipeloides caused by spontaneous thoracic duct rupture: report of a case. Yamamura Y, et al. **Surg Today** 1997;27(2):166–8

Successful combined resection of carcinoma of the esophagus and adrenal metastasis: report of a case. Yoshizumi Y, et al. **Surg Today** 1997;27(4):330–3

Adenoviral infection of thyroid cells: a rationale for gene therapy for metastatic thyroid carcinoma. Zeiger MA, et al. **Surgery** 1996 Dec;120(6):921–5

Salivary duct carcinoma metastasizing to the small bowel. Krušlin B, et al. **Tumori** 1996 Sep–Oct;82(5):502–4

Brain metastases in well-differentiated carcinoma of the thyroid. Samuel AM, et al. **Tumori** 1997 Mar–Apr; 83(2):608–10

General pattern of lymph node metastasis in early gastric carcinoma. Namieno T, et al. **World J Surg** 1996 Oct; 20(8):996–1000

[Pseudosarcomatous muscular metastasis, complication of bronchial carcinoma (letter)] Peyrade F, et al. **Presse Med** 1997 Feb 1;26(2):76 **(Fre)**

[A rare case of metastasis of urinary bladder carcinoma in the pisiform bone. A case report] Bauer P, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):154–7 (Eng. Abstr.) **(Ger)**

[A case from practice (372). Brain metastasis of a highly-malignant undifferentiated carcinoma in unknown primary tumor] Brüderlin M. **Schweiz Rundsch Med Prax** 1997 Jan 7;86(1–2):26–8 **(Ger)**

[Surgical treatment and result for metastatic pulmonary tumor: comparison between sarcoma and carcinoma] Nakamura H, et al. **Kyobu Geka** 1997 Mar;50(3):181–5; discussion 185–7 (Eng. Abstr.) **(Jpn)**

[Stomach neoplasm with pulmonary dissemination--diagnostic difficulties] Jassem E, et al. **Pneumonol Alergol Pol** 1996;64(5–6):335–9 (Eng. Abstr.) **(Pol)**

[Evaluation of the usefulness of palpation and Daniel's biopsy for detection of metastasis to supraclavicular and scalene lymph nodes in patients with lung neoplasms] Ziora D, et al. **Pneumonol Alergol Pol** 1996;64(7–8):437–43 (Eng. Abstr.) **(Pol)**

[Detection of primary tumor in cervical lymph node metastases of unknown origin] Pardal Refoyo JL. **Acta Otorrinolaringol Esp** 1996 Nov–Dec;47(6):465–70 (Eng. Abstr.) **(Spa)**

[Variability of pulmonary carcinomatous lymphangitis (letter)] Sánchez Varilla JM, et al. **An Med Interna** 1995 Sep;12(9):462 **(Spa)**

[Deafness from leptomeningeal metastasis] Hernández-Ramos FJ, et al. **Neurologia** 1996 Nov;11(9):344 **(Spa)**

[Miliary metastases to the brain (letter) (see comments)] Beltrán I, et al. **Rev Neurol** 1996 Mar;24(127):352–3. Comment in: Rev Neurol 1996 Oct;24(134):1305–6. **(Spa)**

SECRETION

Presence of elevated carcinoembryonic antigen on absorbent disks applied to nipple area of breast carcinoma patients. Imayama S, et al. **Cancer** 1996 Sep 15;78(6):1229–34

Aldosterone-producing adrenocortical carcinoma metastases found seven years after adrenalectomy. Sakai N, et al. **Int J Urol** 1997 Jan;4(1):79–82

[An adrenal carcinoma producing androgens, estrogens and cortisol] De Pablos Velasco PL, et al. **An Med Interna** 1997 Apr;14(4):190–2 (12 ref.) (Eng. Abstr.) **(Spa)**

[Testosterone-producing adrenal carcinoma: report of 2 cases] Hidalgo MS, et al. **Rev Med Chil** 1996 Sep; 124(9):1111–5 (Eng. Abstr.) **(Spa)**

SURGERY

Postoperative irradiation of laryngeal carcinoma--the prognostic value of tumour-free surgical margins. Naudé J, et al. **Acta Oncol** 1997;36(3):273–7

Commentary on "Adequacy of chemotherapy prior to cytoreductive surgery in testicular carcinoma" by B. J. Kennedy, Jane L. Torkelson, and Elwin E. Fraley in this issue pp. 541–545 [editorial; comment] Kagan AR. **Am J Clin Oncol** 1996 Dec;19(6):636. Comment on: Am J Clin Oncol 1996 Dec;19(6):541–5.

Adequacy of chemotherapy prior to cytoreductive surgery in testicular carcinoma [see comments] Kennedy BJ, et al. **Am J Clin Oncol** 1996 Dec;19(6):541–5. Comment in: Am J Clin Oncol 1996 Dec;19(6):636.

Surgical results of perforated gastric carcinoma: an analysis of 155 Japanese patients. Adachi Y, et al. **Am J Gastroenterol** 1997 Mar;92(3):516–8

Metastasis to the parotid gland: is a radical surgical approach justified? Jecker P, et al. **Am J Otolaryngol** 1996 Mar–Apr; 17(2):102–5

More than 20 years second-look surgery in advanced epithelial ovarian cancer: what did we learn? [editorial; comment] van der Burg ME. **Ann Oncol** 1997 Jul;8(7):627–9 . Comment on: Ann Oncol 1997 Jul;8(7):643–8.

Morbidity of combined therapy for the treatment of supraglottic carcinoma: supraglottic laryngectomy and radiotherapy. Steiniger JR, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):151–8

Results of surgical salvage of locoregional recurrence of carcinoma of the tongue after radiotherapy failure. Yuen AP, et al. **Ann Otol Rhinol Laryngol** 1997 Sep;106(9):779–82

Transoral resection of spinal cord tumors and posterior cervical spine stabilization. Walton PG, et al. **AORN J** 1997 Jan;65(1):48–50, 52–9, 62–8; quiz 69–74 (45 ref.)

Salvage surgery for recurrent nasopharyngeal carcinoma. Hsu MM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Mar;123(3):305–9

Salvage neck dissection for cervical recurrence of nasopharyngeal carcinoma. Yen KL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):725–9

Pancreatoduodenectomy (Whipple resection) with resection of hepatic metastases for carcinoma of the exocrine pancreas [letter] Howard JM. **Arch Surg** 1997 Sep; 132(9):1044

Ileostomy dysfunction with adjuvant chemoradiation for rectal carcinoma requiring in-hospital management: a cause for concern. Chen FC, et al. **Aust N Z J Surg** 1996 Sep; 66(9):641–2

Results of local excision for rectal carcinoma. Obrand DI, et al. **Can J Surg** 1996 Dec;39(6):463–8

Breast preservation in stage I and II carcinoma of the breast. The University of Chicago experience. Heimann R, et al. **Cancer** 1996 Oct 15;78(8):1722–30

The role of lymph node dissection in the treatment of gallbladder carcinoma. Shimada H, et al. **Cancer** 1997 Mar 1;79(5):892–9

Cryosurgery as a treatment for prostate carcinoma: results and complications. Wong WS, et al. **Cancer** 1997 Mar 1; 79(5):963–74

Initial surgical management of advanced epithelial ovarian cancer. Benjamin I, et al. **Cancer Invest** 1997;15(3):270–6 (35 ref.)

Endometrial carcinoma: adjuvant locoregional therapy. Thomas R, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):140–5 (51 ref.)

Morbidity and mortality following laparoscopic-assisted right hemicolectomy for cancer. Bokey EL, et al. **Dis Colon Rectum** 1996 Oct;39(10 Suppl):S24–8

Prospective comparison of open vs. laparoscopic colon surgery for carcinoma. Five-year results. Franklin ME Jr, et al. **Dis Colon Rectum** 1996 Oct;39(10 Suppl):S35–46

Incidence and patterns of recurrence following curative resection for colorectal carcinoma. Obrand DI, et al. **Dis Colon Rectum** 1997 Jan;40(1):15–24

Transanal endoscopic microsurgery. Initial registry results. Smith LE, et al. **Dis Colon Rectum** 1996 Oct;39(10 Suppl):S79–84

One-stage retrograde approach to Nd:YAG laser palliation of esophageal carcinoma. Mitty RD, et al. **Endoscopy** 1996 May;28(4):350–5

Plasma dehydroepiandrosterone sulfate levels in patients with hyperfunctioning and non-hyperfunctioning adrenal tumors before and after adrenal surgery. Tóth M, et al. **Eur J Endocrinol** 1997 Mar;136(3):290–5

Successful treatment of brain metastases from ovarian cancer using gamma-knife radiosurgery. Kawana K, et al. **Gynecol Oncol** 1997 May;65(2):357–9

The effect of postsurgical therapy on stage III endometrial carcinoma. Schorge JO, et al. **Gynecol Oncol** 1996 Oct; 63(1):34–9

Value of resection of pulmonary metastases in head and neck cancer patients. Wedman J, et al. **Head Neck** 1996 Jul–Aug; 18(4):311–6

Appleby operation for carcinoma of the body and tail of the pancreas. Kimura W, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):387–93 (20 ref.)

Extended right trisegmentectomy for hilar bile duct carcinoma. Noie T, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):998–1001

Pancreaticoduodenectomy for gallbladder cancer with peripancreatic nodal metastases. Shirai Y, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):376–7

Is axillary lymph node dissection necessary in routine management of breast cancer? No. Cady B. **Important Adv Oncol** 1996;:251–65 (119 ref.)

Is axillary lymph node dissection necessary in the routine management of breast cancer? Yes. Moore MP, et al. **Important Adv Oncol** 1996;:245–50 (53 ref.)

Preliminary prospective observations on the laparoscopic management of endometrial carcinoma using the two-stage approach to aortic lymphadenectomy. Kadar N. **J Am Assoc Gynecol Laparosc** 1997 Aug;4(4):443–8

Gastrectomy with combined resection of other organs for carcinoma of the stomach with invasion to adjacent organs: clinical efficacy in a retrospective study. Kodama I, et al. **J Am Coll Surg** 1997 Jan;184(1):16–22

Surgical treatment of Borrmann type IV gastric carcinoma: relevance of lymphadenectomy in improving survival [see comments] Kodera Y, et al. **J Am Coll Surg** 1996 Nov; 183(5):480–5. Comment in: J Am Coll Surg 1997 Aug;185(2):200–1.

Long-term results of operation for carcinoma of the stomach in T1/T2 stages: critical evaluation of the concept of early carcinoma of the stomach [letter] Roukos D, et al. **J Am Coll Surg** 1997 Jan;184(1):99–101

Local recurrence after operative treatment of rectal carcinoma: a strategy for change. Søreide O, et al. **J Am Coll Surg** 1997 Jan;184(1):84–92 (77 ref.)

Systematic surgical staging: stage I ovarian cancer [letter; comment] Piver MS. **J Clin Oncol** 1997 Feb;15(2):864–5. Comment on: J Clin Oncol 1996 Nov;14(11):2968–75.

Results of reconstruction with free forearm flap following laryngopharyngo-oesophageal resection. Akin I, et al. **J Laryngol Otol** 1997 Jan;111(1):48–53

Oesophagogastrectomy for carcinoma in patients under 50 years of age. Adam DJ, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):371–3

Gastric stump carcinoma after partial gastrectomy for benign gastric lesion: what is feasible as standard surgical treatment? Kodera Y, et al. **J Surg Oncol** 1996 Oct; 63(2):119–24

Successful radical surgery for an undifferentiated gallbladder carcinoma with lymph node metastases to the mesocolon. Ota T, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):484–7

Recommendations for the reporting of resected large intestinal carcinomas. Association of Directors of Anatomic and Surgical Pathology [see comments] **Mod Pathol** 1996 Jan;9(1):73–6. Comment in: Mod Pathol 1996 Dec;9(12):1177–8.

Recommendations for the reporting of breast carcinoma. Association of Directors of Anatomic and Surgical Pathology. **Mod Pathol** 1996 Jan;9(1):77–81

Intraoperative radiation therapy and chemotherapy for huge choroid plexus carcinoma in an infant—case report. Kumabe T, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):179–84

A trend toward more conservative surgery in gynecologic oncology. Menczer J. **Obstet Gynecol Surv** 1996 Oct; 51(10):628–36 (143 ref.)

Colorectal cancer surgical practice guidelines. Colorectal Cancer Practice Guideline Committee. Cohen AM, et al. **Oncology (Huntingt)** 1997 Jul;11(7):1051–7

Gastric cancer surgical practice guidelines. Gastric Cancer Practice Guideline Committee. Evans DB, et al. **Oncology (Huntingt)** 1997 Jul;11(7):1067–72

Esophageal cancer surgical practice guidelines. Esophageal Cancer Practice Guideline Committee. Ginsberg R, et al. **Oncology (Huntingt)** 1997 Jul;11(7):1059–62, 1065

The drainage of cerebrospinal fluid into the lymphatic system of the neck in humans. Caversaccio M, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May-Jun; 58(3):164–6

Speech rehabilitation after treatment of laryngeal carcinoma. Blalock D. **Otolaryngol Clin North Am** 1997 Apr; 30(2):179–88 (20 ref.)

Organ preservation therapy for advanced-stage laryngeal carcinoma. Hoffman HT, et al. **Otolaryngol Clin North Am** 1997 Feb;30(1):113–30 (41 ref.)

Management of advanced-stage laryngeal cancer. Levine PA, et al. **Otolaryngol Clin North Am** 1997 Feb; 30(1):101–12 (24 ref.)

Maxillectomy. McGuirt WF. **Otolaryngol Clin North Am** 1995 Dec;28(6):1175–89 (31 ref.)

Open surgical management of early glottic carcinoma. Osguthorpe JD, et al. **Otolaryngol Clin North Am** 1997 Feb;30(1):87–99 (42 ref.)

Histopathology of the frozen prostate. The microscopic bases of prostatic carcinoma cryoablation. Falconieri G, et al. **Pathol Res Pract** 1996 Jun;192(6):579–87

Quality of life in gastric cancer prior to gastrectomy. Svedlund J, et al. **Qual Life Res** 1996 Apr;5(2):255–64

Laser ablation-induced changes in the prostate: findings at endorectal MR imaging with histologic correlation. Böni RA, et al. **Radiology** 1997 Jan;202(1):232–6

Management of microcalcifications that develop at the lumpectomy site after breast-conserving therapy. Vora SA, et al. **Radiology** 1997 Jun;203(3):667–71

Hard to swallow (Bernard Collinsworth, 12/11/11–). Goldblatt D, et al. **Semin Neurol** 1996 Dec;16(4):387–8

Preliminary application of Gamma Knife in the treatment of nasopharyngeal carcinoma. Dong RH, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:201–7

Covered metal stent for tumor obstruction of efferent loop recurrence after gastrectomy. Cheung HY, et al. **Surg Endosc** 1997 Sep;11(9):936–8

Local and regional recurrence of carcinoma of the colon and rectum: II. Factors relating to operative technique. Lee YT. **Surg Oncol** 1996 Feb;5(1):1–13 (71 ref.)

Axillary lymphadenectomy—just how radical should it be? Rageth JC, et al. **Surg Oncol** 1996 Feb;5(1):37–41

Laparoscopic-assisted colectomy with lymph node dissection for invasive carcinoma of the colon. Konishi F, et al. **Surg Today** 1996;26(11):882–9

Evaluating the rational extent of dissection in radical esophagectomy for invasive carcinoma of the thoracic esophagus. Nishimaki T, et al. **Surg Today** 1997;27(1):3–8

Successful combined resection of carcinoma of the esophagus and adrenal metastasis: report of a case. Yoshizumi Y, et al. **Surg Today** 1997;27(4):330–3

Clinically silent pancreatic glucagonomas discovered in resected specimens by immunohistochemistry. Hashimoto M, et al. **Surgery** 1997 Sep;122(3):632–3

Clinicopathologic study for the assessment of resection for ampullary carcinoma. Böttger TC, et al. **World J Surg** 1997 May;21(4):379–83

[Stomach carcinoma—the current trends in its surgical treatment] Damianov N. **Khirurgiia (Sofiia)** 1996;49(2):51–6 (0 ref.) **(Bul)**

[A rational treatment of stage I epithelial ovarian cancer] Wang W, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Jul;31(7):387–9 (Eng. Abstr.) **(Chi)**

[Surgical treatment of renal carcinoma with tumor thrombus extending into the right heart atrium] Morávek P, et al. **Rozhl Chir** 1996 Dec;75(12):603–6 (Eng. Abstr.) **(Cze)**

[Axillary lymph node dissection in clinically occult breast cancer] Le Bouëdec G, et al. **Bull Cancer** 1996 Jul; 83(7):581–8 (50 ref.) (Eng. Abstr.) **(Fre)**

[Super radical surgery of advanced ovarian cancers (stages III and IV)] Michel G, et al. **Contracept Fertil Sex** 1997 Jun;25(6):V–XI **(Fre)**

[Urethral recurrence after cysto-prostatectomy for bladder tumor] Robert M, et al. **Prog Urol** 1996 Aug-Sep; 6(4):558–63 (Eng. Abstr.) **(Fre)**

[Epithelioma of the penis treated with surgery. Study Group on Urogenital Tumors of the National Federation of the Centers for Cancer Control] Rozan R, et al. **Prog Urol** 1996 Dec;6(6):926–35 (Eng. Abstr.) **(Fre)**

[Small-cell sarcoma of the esophagus as a fourth malignancy. Its palliative therapy with argon gas coagulation] Glaser J, et al. **Dtsch Med Wochenschr** 1997 Aug 22; 122(34–35):1037–40 (8 ref.) (Eng. Abstr.) **(Ger)**

[The laser treatment of rectal carcinoma] Riedl S. **Dtsch Med Wochenschr** 1997 Jan 24;122(4):105 **(Ger)**

[Long-term results of organ preserving therapy in ovarian carcinoma] Meier W, et al. **Zentralbl Gynakol** 1996; 118(10):545–8 (Eng. Abstr.) **(Ger)**

[Differentiated carcinoma in autonomously functioning thyroid nodule: case report] Ducci M, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3):281–5 (Eng. Abstr.) **(Ita)**

[Iatrogenic lesion of the thoracic duct in the neck. Presentation of a case] Mascioli P, et al. **Ann Ital Chir** 1996 Jul–Aug;67(4):549–52 (Eng. Abstr.) **(Ita)**

[An application of mini-invasive surface surgery: the thyroid] Mattioli FP, et al. **Ann Ital Chir** 1996 Jul–Aug;67(4):535–6 (Eng. Abstr.) **(Ita)**

[Differentiated cancer of the thyroid: our experience] Santini L, et al. **Ann Ital Chir** 1996 Jul–Aug;67(4):489–93 (Eng. Abstr.) **(Ita)**

[Radical transcoccygeal prostatectomy] Rigatti P, et al. **Chir Ital** 1996;48(5):9–20 (Eng. Abstr.) **(Ita)**

[The surgery of breast carcinoma. 10 years of activity] Badellino F, et al. **Minerva Chir** 1997 May;52(5):531–48 (Eng. Abstr.) **(Ita)**

[Pulsating tumor of the sternum: enlarged exeresis and reconstruction with marlex-methylmethacrylate prosthesis] Di Fabio D, et al. **Minerva Chir** 1996 May;51(5):359–63 (Eng. Abstr.) **(Ita)**

[Cancer of the gallbladder] Nardi M, et al. **Minerva Chir** 1997 May;52(5):583–7 (Eng. Abstr.) **(Ita)**

[Surgical treatment and result for metastatic pulmonary tumor: comparison between sarcoma and carcinoma] Nakamura H, et al. **Kyobu Geka** 1997 Mar;50(3):181–5; discussion 185–7 (Eng. Abstr.) **(Jpn)**

[The point of view of otolaryngologist and head and neck surgeon on thyroid diseases] Betkowski A, et al. **Otolaryngol Pol** 1995;49(6):574–82 (Eng. Abstr.) **(Pol)**

[The clinical significance of metastatic cancer of the larynx to the Delphi node] Modrzejewski M, et al. **Otolaryngol Pol** 1996;50(2):156–61 (Eng. Abstr.) **(Pol)**

[The reasons for failures of laryngeal cancer surgeries] Semczuk B, et al. **Otolaryngol Pol** 1996;50(2):139–44 (Eng. Abstr.) **(Pol)**

[The surgical treatment of patients with bladder cancer in middle and old age] Tkachuk VN, et al. **Urol Nefrol (Mosk)** 1997 Jan-Feb;(1):23–5 (Eng. Abstr.) **(Rus)**

[The surgical treatment of poorly differentiated lung cancer] Shnitko SN. **Vestn Khir Im I I Grek** 1996;(1):105–7 (41 ref.) **(Rus)**

[Partial vertical surgery in the treatment of glottic carcinoma. Our experience in the course of 30 years] Martínez T, et al. **Acta Otorrinolaringol Esp** 1996 May-Jun;47(3):227–31 (Eng. Abstr.) **(Spa)**

[Functional surgery versus radical surgery in carcinoma of the hypopharynx] Menaches Guardiola MI, et al. **Acta Otorrinolaringol Esp** 1996 Jul–Aug;47(4):301–5 (Eng. Abstr.) **(Spa)**

[Calearo horizontal glottectomy in bilateral glottic cancer] Rodríguez Adrados F. **Acta Otorrinolaringol Esp** 1997 Apr; 48(3):204–8 (Eng. Abstr.) **(Spa)**

[Vertical partial laryngectomies: our experience] Guallart Doménech F, et al. **An Otorrinolaringol Ibero Am** 1996; 23(5):469–78 (Eng. Abstr.) **(Spa)**

THERAPY

Multidisciplinary management controversies in laryngeal cancer. Goh C, et al. **Ann Acad Med Singapore** 1996 May; 25(3):405–12 (54 ref.)

Anaplastic carcinoma of the thyroid. Sweeney PJ, et al. **Ann Oncol** 1996 Sep;7(7):739–44 (37 ref.)

Enhancement of gene therapy specificity for diffuse colon carcinoma liver metastases with recombinant herpes simplex virus. Carroll NM, et al. **Ann Surg** 1996 Sep; 224(3):323–9; discussion 329–30

Photodynamic anticancer agent merocyanine540 inhibits cell growth by apoptosis. Chen YC, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2781–8

Adenovirus-mediated gene therapy of gastric carcinoma using cancer-specific gene expression in vivo. Tanaka T, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):775–9

Effect of CD34+ selection and various schedules of stem cell reinfusion and granulocyte colony-stimulating factor priming on hematopoietic recovery after high-dose chemotherapy for breast cancer. Somlo G, et al. **Blood** 1997 Mar 1;89(5):1521–8

Anaphylaxis during autologous peripheral blood progenitor cell infusion. Essayan DM, et al. **Bone Marrow Transplant** 1997 Apr;19(7):749–52

Carbogen and nicotinamide in the treatment of bladder cancer with radical radiotherapy. Hoskin PJ, et al. **Br J Cancer** 1997;76(2):260–3

Biostatistical modeling using traditional variables and genetic biomarkers for predicting the risk of prostate carcinoma recurrence after radical prostatectomy. Bauer JJ, et al. **Cancer** 1997 Mar 1;79(5):952–62

Improved mortality rate of gastric carcinoma patients with peritoneal carcinomatosis treated with intraperitoneal hyperthermic chemoperfusion combined with surgery. Fujimoto S, et al. **Cancer** 1997 Mar 1;79(5):884–91

A phase III randomized study of interleukin-2 lymphokine-activated killer cell immunotherapy combined with chemotherapy or radiotherapy after curative or noncurative resection of primary lung carcinoma. Kimura H, et al. **Cancer** 1997 Jul 1;80(1):42–9

Quality of life and treatment outcomes: prostate carcinoma patients' perspectives after prostatectomy or radiation therapy. Shrader-Bogen CL, et al. **Cancer** 1997 May 15; 79(10):1977–86

The role of high-dose chemotherapy with hematopoietic stem cell support in the treatment of patients with epithelial ovarian carcinoma. Hussein AM. **Cancer Invest** 1997; 15(3):288–95 (50 ref.)

Efficacy of hyperthermia and polyunsaturated fatty acids on experimental carcinoma. Kokura S, et al. **Cancer Res** 1997 Jun 1;57(11):2200–2

A pilot study of cryochemotherapy for hepatic metastases from colorectal cancer. Rodríguez-Bigas MA, et al. **Cryobiology** 1996 Dec;33(6):600–6

Differentiated thyroid carcinoma. Hershman JM, et al. **Curr Ther Endocrinol Metab** 1997;6:122–6 (14 ref.)

Salvage intraperitoneal therapy of advanced epithelial ovarian cancer: impact of retroperitoneal nodal disease. Barakat RR, et al. **Eur J Gynaecol Oncol** 1997;18(3):161–3

The success of TNF alpha in isolated limb perfusion for irresectable extremity soft tissue sarcomas, melanoma and carcinomas: observations in patients and preclinical perfusion models. Eggermont AM. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1357–70 (74 ref.)

Anaerobic bacteria as a delivery system for cancer gene therapy: in vitro activation of 5-fluorocytosine by genetically engineered clostridia [published erratum appears in Gene Ther 1996 Aug;3(8):741] Fox ME, et al. **Gene Ther** 1996 Feb;3(2):173–8

Patients' preferences for therapy in advanced epithelial ovarian cancer: development, testing, and application of a bedside decision instrument [see comments] Elit LM, et al. **Gynecol Oncol** 1996 Sep;62(3):329–35. Comment in: Gynecol Oncol 1996 Sep;62(3):327–8.

The in vivo interaction between flavone acetic acid and hyperthermia. Horsman MR, et al. **Int J Hyperthermia** 1996 Nov-Dec;12(6):779–89

A new microwave applicator with integrated cooling system for intracavitary hyperthermia of vaginal carcinoma. Roos D, et al. **Int J Hyperthermia** 1996 Nov-Dec;12(6):743–56

Simulation studies promote technological development of radiofrequency phased array hyperthermia. Wust P, et al. **Int J Hyperthermia** 1996 Jul-Aug;12(4):477–94

Immunohistochemical study of tumor-infiltrating lymphocytes before and after intravesical bacillus Calmette-Guérin treatment for superficial bladder cancer. Honda S, et al. **Int J Urol** 1997 Jan;4(1):68–73

High-dose chemotherapy with peripheral blood stem-cell transplantation for hormone-refractory advanced carcinoma of the prostate: experience of two cases. Nishiyama T, et al. **Int J Urol** 1996 Jul;3(4):320–3

Total incontinence secondary to sphincter destruction after prostate cryotherapy for recurrent prostatic carcinoma. Watanabe T, et al. **Int J Urol** 1996 Jul;3(4):324–5

High-dose chemotherapy with autologous transplantation for persistent/relapsed ovarian cancer: a multivariate analysis of survival for 100 consecutively treated patients [see comments] Stiff PJ, et al. **J Clin Oncol** 1997 Apr; 15(4):1309–17. Comment in: J Clin Oncol 1997 Apr;15(4):1291–3.

Intraperitoneal adoptive immunotherapy of ovarian carcinoma with tumor-infiltrating lymphocytes and low-dose recombinant interleukin-2: a pilot trial. Freedman RS, et al. **J Immunother** 1994 Oct;16(3):198–210

Phase II trials of high-dose interleukin-2 and lymphokine-activated killer cells in advanced breast carcinoma and carcinoma of the lung, ovary, and pancreas and other tumors. Sparano JA, et al. **J Immunother** 1994 Oct;16(3):216–23

Phase I study of a recombinant adenovirus-mediated gene transfer in lung cancer patients. Tursz T, et al.

J Natl Cancer Inst 1996 Dec 18;88(24):1857–63

Carcinoma cell lines become sensitive to DNA–damaging agents by the expression of the adenovirus E1A gene. Sánchez–Prieto R, et al. **Oncogene** 1996 Sep 5; 13(5):1083–92

Antitumor activities of combined treatment with a novel immunomodulator, (2S,3S,4R)–1–O–(alpha–D–Galactopyranosyl)–2–(N–Hexacosanoylamino)–1,3,4 – octadecanetriol (KRN7000), and radiotherapy in tumor–bearing mice. Motoki K, et al. **Oncol Res** 1996;8(4):155–62

An evaluation of postoperative follow–up tests in colon cancer patients treated for cure. Peethambaram P, et al. **Oncology** 1997 Jul–Aug;54(4):287–92

Endobronchial techniques in lung cancer. Options for nonsurgical care. Midthun DE. **Postgrad Med** 1997 Mar; 101(3):169–72, 177–8

Possible bone–preserving capacity of high–dose intramuscular depot estrogen as compared to orchidectomy in the treatment of patients with prostatic carcinoma. Carlström K, et al. **Prostate** 1997 May 15;31(3):193–7

Diagnosis and surgical treatment of pancreatic carcinoma. Puchalski Z, et al. **Rocz Akad Med Bialymst** 1996; 41(2):210–7

Adenoviral infection of thyroid cells: a rationale for gene therapy for metastatic thyroid carcinoma. Zeiger MA, et al. **Surgery** 1996 Dec;120(6):921–5

[Clinical study on effect of combined treatment of fuchunpian with radiotherapy on nasopharyngeal carcinoma] Han JQ, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Dec;15(12):710–2 (Eng. Abstr.) **(Chi)**

[Possibilities and trends in the comprehensive treatment of malignant ovarian epithelial tumors] Rob L, et al. **Ceska Gynekol** 1996 Jun;61(3):183–90 **(Cze)**

[Results of treatment of non–melanoma skin cancer in a dermatologic practice. A prospective study] Veien SK, et al. **Ugeskr Laeger** 1996 Dec 9;158(50):7213–5 (Eng. Abstr.) **(Dan)**

[Incidence and treatment of prostatic carcinoma in the region of the Comprehensive Cancer Center Amsterdam, 1989–1994 (see comments)] Visser O, et al. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2627–31 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Mar 8;141(10):495. **(Dut)**

[Peritoneal carcinosis treated by complete excision and immediate postoperative intra–peritoneal chemotherapy. Phase II study in 54 patients] Elias D, et al. **Gastroenterol Clin Biol** 1997;21(3):181–7 (Eng. Abstr.) **(Fre)**

[Low–risk thyroid carcinoma—therapy, follow–up and prognosis] Sophocleous S, et al. **Nuklearmedizin** 1997 Apr; 36(3):93–102 (Eng. Abstr.) **(Ger)**

[Ulcerated carcinoma of the breast in an elderly woman. An unusual clinical case report] Di Vita G, et al. **G Chir** 1997 Jan–Feb;18(1–2):31–5 (Eng. Abstr.) **(Ita)**

ULTRASONOGRAPHY

Diagnosis of portal venous invasion by pancreatobiliary carcinoma: value of endoscopic ultrasonography. Sugiyama M, et al. **Abdom Imaging** 1997 Jul–Aug;22(4):434–8

Incidentally discovered adrenal mass (incidentaloma): investigation and management of 208 patients. Kasperlik–Zeluska AA, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):29–37

High–resolution sonography of breast carcinoma. Rizzatto G, et al. **Eur J Radiol** 1997 Jan;24(1):11–9 (21 ref.)

Endoscopic detection of early esophageal cancer in a high–risk population: does Lugol staining improve videoendoscopy? Meyer V, et al. **Gastrointest Endosc** 1997 Jun;45(6):480–4

Interobserver variability in endoscopic ultrasonography: a prospective evaluation. Roubein LD, et al. **Gastrointest Endosc** 1996 Nov;44(5):573–7

Screening by ultrasonography for endometrial carcinoma in postmenopausal breast cancer patients under adjuvant tamoxifen. Cecchini S, et al. **Gynecol Oncol** 1996 Mar; 60(3):409–11

The role of laparoscopy and ultrasonography in pancreatic head carcinoma. Beger HG, et al. **HPB Surg** 1997; 10(3):186–8 (2 ref.)

The value of endorectal ultrasound in the assessment of adenomas, T1– and T2–carcinomas. Sailer M, et al. **Int J Colorectal Dis** 1997;12(4):214–9

Electronic portal imaging device detection of radioopaque markers for the evaluation of prostate position during megavoltage irradiation: a clinical study. Vigneault E, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):205–12

The lady seen for evaluation of left flank pain and a 'small left kidney'. Enia G, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1755–6

US case of the day. Skeletal metastasis from poorly differentiated carcinoma of unknown origin. Cooke KS, et al. **Radiographics** 1997 Mar–Apr;17(2):542–4

Use of transrectal ultrasound and biopsy in the detection of prostate cancer. Selzman AA, et al. **Tech Urol** 1995 Winter; 1(4):209–16 (56 ref.)

[The ultrasonic diagnosis of endometrial pathological.processes in the postmenopause] Georgiev DB, et al. **Akush Ginekol (Sofiia)** 1997;36(1):21–3 (29 ref.) (Eng. Abstr.) **(Bul)**

[Diagnosis and therapy of thyroid carcinoma] Hölting T, et al. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1077–80 **(Ger)**

[Echotomography and color–Doppler in the diagnosis of thyroid carcinoma] Messina G, et al. **Ann Ital Med Int** 1996 Oct–Dec;11(4):263–7 (38 ref.) (Eng. Abstr.) **(Ita)**

[Diagnosis of superficial–type early carcinoma of the gallbladder by endoscopic ultrasonography—comparison with ultrasonography] Kimura K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Jul;93(7):462–9 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Histomorphological characteristics of non–metastatic lymph nodes in patients with head and neck cancer according to their site in the neck. Klimek T, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):336–40

Formation of spheroid structures in a human colon carcinoma cell line involves a complex series of intercellular rearrangements. Lincz LF, et al. **Differentiation** 1997 May; 61(4):261–74

Nucleolar organizer regions in glottic carcinomas: comparison of DNA cytofluorometry and clinicopathological analysis. Yamamoto Y, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):499–503

Liarozole potentiates the all–trans–retinoic acid–induced structural remodelling in human breast carcinoma MCF–7 cells in vitro. Van heusden J, et al. **Eur J Cell Biol** 1996 Sep;71(1):89–98

"Osteoclast–like' giant cells in a feline mammary carcinoma [letter] De Vico G, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):153–5

Subcellular organelle analysis applying confocal laser scanning microscopy to the steroid–producing epithelial ovarian tumor: a technical note [letter] Yasuda M, et al. **Pathol Int** 1997 May;47(5):336–8

Myoepithelial carcinoma arising in a benign myoepithelioma: immunohistochemical, ultrastructural, and flow–cytometrical study. Bombí JA, et al. **Ultrastruct Pathol** 1996 Mar–Apr;20(2):145–54 (24 ref.)

Immunocytochemical and immunoelectron microscopical analysis of BCL2 expression in thyroid oxyphilic tumors. Lombardi L, et al. **Ultrastruct Pathol** 1997 Jan–Feb; 21(1):33–9

Ultrastructure of streptozotocin–induced renal tumours in mice. Delahunt B, et al. **Virchows Arch** 1997 Feb; 430(2):173–80

VETERINARY

Anaplastic sarcoma of the mandible in a llama. Malone E, et al. **Can Vet J** 1996 Jul;37(7):426–8

Tumours of the mammary gland. Fernandez PL, et al. **IARC Sci Publ** 1996;(126):45–58 (29 ref.)

Tumours of the urinary bladder, renal pelvis, ureter and urethra. Fukushima S, et al. **IARC Sci Publ** 1996; (126):243–59 (39 ref.)

Tumours of the lower respiratory tract. Mohr U, et al. **IARC Sci Publ** 1996;(126):189–222 (162 ref.)

Tumours of the pancreas. Pour PM, et al. **IARC Sci Publ** 1996;(126):149–73 (29 ref.)

Tumours of the female genital system. Ribas JL, et al. **IARC Sci Publ** 1996;(126):281–305 (118 ref.)

Tumours of the nasal cavity. Schuller HM. **IARC Sci Publ** 1996;(126):175–87 (28 ref.)

"Osteoclast–like' giant cells in a feline mammary carcinoma [letter] De Vico G, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):153–5

Production of granulocyte colony stimulating factor and granulocyte macrophage colony stimulating factor by carcinomas in a dog and a cat with paraneoplastic leukocytosis [letter; comment] Padrid P, et al. **J Vet Intern Med** 1997 Mar–Apr;11(2):95. Comment on: J Vet Intern Med 1996 Nov–Dec;10(6):405–8.

Poorly differentiated carcinoma of the parotid gland in a six–week–old Sprague–Dawley rat. Tsunenari I, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):225–8

Adrenal cortical carcinoma in a free–ranging mouflon (Ovis musimon). Marco–Sánchez I, et al. **Vet Rec** 1996 Sep 7; 139(10):236–7

Meningeal carcinomatosis in a dog. Pumarola M, et al. **Vet Rec** 1996 May 25;138(21):523–4

VIROLOGY

Human papillomavirus infection and TP53 gene mutation in primary cervical carcinoma. Kim JW, et al. **Acta Oncol** 1997;36(3):295–300

The mechanism of Epstein–Barr virus infection in nasopharyngeal carcinoma cells. Lin CT, et al. **Am J Pathol** 1997 May;150(5):1745–56

The oncogenic potential of eleven avian adenovirus strains. Dhillon AS, et al. **Avian Dis** 1997 Jan–Mar;41(1):247–51

Differences in serological IgA responses to recombinant baculovirus–derived human papillomavirus E2 protein in the natural history of cervical neoplasia. Rocha–Zavaleta L, et al. **Br J Cancer** 1997;75(8):1144–50

The rabbit viral skin papillomas and carcinomas: a model for the immunogenetics of HPV–associated carcinogenesis. Breitburd F, et al. **Clin Dermatol** 1997 Mar–Apr; 15(2):237–47 (111 ref.)

Epstein–Barr virus latent and replicative gene expression in gastric carcinoma. Selves J, et al. **Histopathology** 1996 Feb; 28(2):121–7

Absence of EBV genome in lymphoepithelioma–like carcinomas of the larynx. Tardío JC, et al. **Histopathology** 1997 Feb;30(2):126–8

Increasing evidence that Epstein–Barr virus may be involved in the pathogenesis of undifferentiated carcinoma of the salivary glands [letter] Gallo O. **Hum Pathol** 1996 Dec; 27(12):1381

Lymphoepithelioma–like carcinoma of the thyroid gland: lack of evidence of association with Epstein–Barr virus. Shek TW, et al. **Hum Pathol** 1996 Aug;27(8):851–3

Functional characterization of naturally occurring mutants of human papillomavirus type 16 with large deletions in the non–coding region [letter] Grassmann K, et al. **Int J Cancer** 1996 Oct 9;68(2):265–9

Epstein–Barr virus–associated gastric carcinoma. Adachi Y, et al. **J Clin Gastroenterol** 1996 Oct;23(3):207–10 (24 ref.)

Use of multiple PCR primer sets for optimal detection of human papillomavirus. Karlsen F, et al. **J Clin Microbiol** 1996 Sep;34(9):2095–100

Serological and T–helper cell responses to human papillomavirus type 16 L1 in women with cervical dysplasia or cervical carcinoma and in healthy controls. Luxton JC, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):917–23

The effect of ganciclovir on herpes simplex virus–mediated oncolysis. Carroll NM, et al. **J Surg Res** 1997 May; 69(2):413–7

Clonal versus polyclonal Epstein–Barr virus infection in nasopharyngeal carcinoma cell lines. Lin CT, et al. **Lab Invest** 1997 Jun;76(6):793–8

A comparison of early (E7) and late (L1) primer–mediated amplification of papillomaviral DNA in cervical neoplasia. Tate JE, et al. **Mol Cell Probes** 1996 Oct;10(5):347–51

Epstein–Barr virus infection and the pathogenesis of nasopharyngeal carcinoma: viral gene expression, tumour cell phenotype, and the role of the lymphoid stroma. Niedobitek G, et al. **Semin Cancer Biol** 1996 Aug; 7(4):165–74 (92 ref.)

Epstein–Barr virus (EBV) infection in salivary gland tumors: lytic EBV infection in nonmalignant epithelial cells surrounded by EBV–positive T–lymphoma cells. Wen S, et al. **Virology** 1997 Jan 20;227(2):484–7

[The presence of Human Papillomavirus (HPV) in microinvasive in situ spinocellular carcinoma of the oral cavity. Preliminary report] Mignogna MD, et al. **Minerva Stomatol** 1997 Jun;46(6):287–91 (Eng. Abstr.) **(Ita)**

CARCINOMA 256, WALKER

DRUG THERAPY

Effects of betamipron on cisplatin nephrotoxicity and its pharmacokinetics in rats. Tokunaga J, et al. **Biol Pharm Bull** 1997 Apr;20(4):386–91

In vitro and in vivo effects of tetrakisphosphonates on bone resorption, tumor osteolysis, ectopic calcification, and macrophages. Van Gelder JM, et al. **J Pharm Sci** 1997 Mar;86(3):283–9

[Effects of adjuvant hyaluronidase in tumors refractory to chemotherapy. Review of the literature and pharmacokinetics of cisplatin after regional administration in animals and humans] Civalleri D, et al. **G Chir** 1997 Apr;18(4):175–81 (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

Immunodetection of rat Walker 256 tumour mitochondrial carnitine palmitoyltransferase I and II: evidence for the control of CPT II expression by insulin. Colquhoun A, et al. **Biochem Mol Biol Int** 1996 Feb;38(1):171–4

GENETICS

Intratumoral pharmacokinetics and in vivo gene expression of naked plasmid DNA and its cationic liposome complexes after direct gene transfer. Nomura T, et al. **Cancer Res** 1997 Jul 1;57(13):2681–6

METABOLISM

Reduced renal sodium excretion in Walker–256 tumor–bearing rats. Rettori O, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):111–8

Impairment of insulin secretion in pancreatic islets isolated from Walker 256 tumor–bearing rats. el Razi Neto S, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C804–9

Studies on the lipid metabolism of Walker 256 tumour–bearing rats during the development of cancer cachexia. Seelaender MC, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):1037–47

Pharmacokinetic analysis of drug disposition after intratumoral injection in a tissue–isolated tumor perfusion system. Saikawa A, et al. **Pharm Res** 1996 Oct; 13(10):1438–44

PATHOLOGY

Low concentrations of the phosphatase inhibitor okadaic acid stop tumor cell locomotion. Niggli V, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):99–108

Suppression of polarity, locomotion and F–actin levels of Walker carcinosarcoma cells by the inhibitor CI–959. von Tscharner Biino N, et al. **Life Sci** 1997;61(2):137–45

RADIONUCLIDE IMAGING

[Effect of glucose–insulin infusion on thallium–201 chloride

tumor imaging] Nishiyama Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):274–5 (Eng. Abstr.) **(Jpn)**

THERAPY

[Cancer gene therapy by direct intratumoral injection: gene expression and intratumoral pharmacokinetics of plasmid DNA] Nomura T, et al. **Gan To Kagaku Ryoho** 1997 Feb; 24(4):483–8 (6 ref.) (Eng. Abstr.) **(Jpn)**

CARCINOMA, ACINAR CELL

Acinic cell carcinoma of the parotid in children. Jones AO, et al. **Australas Radiol** 1997 Feb;41(1):44–8

[Malignant acinar-endocrine cell tumor of the pancreas] Cosić M, et al. **Vojnosanit Pregl** 1996 Mar–Apr;53(2):145–8 **(Scr)**

BLOOD

[Increase of serum alpha-fetoprotein in a patient with acinar cell carcinoma of the pancreas (letter)] Balian A, et al. **Gastroenterol Clin Biol** 1997;21(3):231–2 **(Fre)**

CHEMISTRY

Proliferating patterns of salivary gland adenocarcinomas with the use of PCNA labeling. Zhao M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2693–8

Immunohistochemical study of acinic cell carcinoma of minor salivary gland. Crivelini MM, et al. **Oral Oncol** 1997 May; 33(3):204–8

COMPLICATIONS

Upper airway obstruction secondary to acinic cell carcinoma of the trachea. Use of Nd:YAG laser. Ansari MA, et al. **Chest** 1996 Oct;110(4):1120–2

DIAGNOSIS

Microglandular carcinoma of the pancreas [letter; comment] Klimstra DS, et al. **Am J Clin Pathol** 1997 Jun;107(6):711–3 . Comment on: Am J Clin Pathol 1996 Jun;105(6):727–32.

Cytologic diagnosis of acinic-cell carcinoma of salivary glands. Nagel H, et al. **Diagn Cytopathol** 1997 May; 16(5):402–12

Acinic cell Carcinoma of the parotid gland: CT and MRI. Sakai O, et al. **Neuroradiology** 1996 Oct;38(7):675–9

DRUG THERAPY

[A patient with pancreatic acinar cell carcinoma, effectively treated by the infusion chemotherapy through hepatic artery using 5-FU, CDDP and MMC] Sakon M, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1614–6 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

An immunohistochemical analysis of anti-amylase antibody reactivity in acinic cell adenocarcinoma. Childers EL, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jun;81(6):691–4

GENETICS

Atypical adenomatous hyperplasia of the prostate: a critical review. Grignon DJ, et al. **Eur Urol** 1996;30(2):206–11 (57 ref.)

METABOLISM

Endocytosis of gastrin in cancer cells expressing gastrin/CCK-B receptor. Tarasova NI, et al. **Cell Tissue Res** 1997 Feb;287(2):325–33

PATHOLOGY

Functioning pancreatic acinar cell carcinoma: immunohistochemical and ultrastructural analyses. Kuerer H, et al. **Am J Clin Oncol** 1997 Feb;20(1):101–7

Microadenocarcinoma of the pancreas—morphologic pattern or pathologic entity? A reevaluation of the original series. Lonardo F, et al. **Am J Surg Pathol** 1996 Nov; 20(11):1385–93

Salivary gland double tumor: synchronous ipsilateral pleomorphic adenoma and acinic cell carcinoma of the parotid gland. Misselevich I, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):226–9

Comparative cytologic features of pancreatic acinar cell carcinoma and islet cell tumor. Labate AM, et al. **Diagn Cytopathol** 1997 Feb;16(2):112–6

Potential utility of p53 immunopositivity in differentiation of adenocarcinomas from reactive epithelial atypias of the lung. Cagle PT, et al. **Hum Pathol** 1996 Nov; 27(11):1198–203

Dedifferentiated acinic cell carcinoma of the parotid gland: a distinct rarely described entity. Henley JD, et al. **Hum Pathol** 1997 Jul;28(7):869–73

Well-differentiated acinic cell carcinoma of salivary glands associated with lymphoid stroma. Michal M, et al. **Hum Pathol** 1997 May;28(5):595–600

Mixed acinar-endocrine carcinoma of the pancreas—a case report. Cho KJ, et al. **J Korean Med Sci** 1996 Apr; 11(2):188–92

Tumour growth fraction and apoptosis in salivary gland acinic cell carcinomas. Prognostic implications of Ki-67 and bcl-2 expression and of in situ end labelling (TUNEL). Hellquist HB, et al. **J Pathol** 1997 Mar;181(3):323–9

Acinic cell-like carcinoma of the breast. Roncaroli F, et al. **Virchows Arch** 1996 Sep;429(1):69–74

SECONDARY

Fat necrosis with features of erythema nodosum in a patient with metastatic pancreatic carcinoma. Durden FM, et al. **Int J Dermatol** 1996 Jan;35(1):39–41

Metastatic acinic cell carcinoma of the parotid presenting as a colonic polyp. Gerdis M, et al. **J Clin Gastroenterol** 1996 Jan;22(1):72–4

ULTRASTRUCTURE

Helioid inclusions in dedifferentiated acinic cell carcinoma of the parotid gland. Nunes JF, et al. **Ultrastruct Pathol** 1996 Sep–Oct;20(5):443–9

CARCINOMA, ADENOID CYSTIC

Adenoid cystic carcinoma of Bartholin's gland [letter] Morita Y, et al. **Int J Gynaecol Obstet** 1996 Sep;54(3):279–80

Adenoid cystic carcinoma of the cervix in a young patient. Dixit S, et al. **J Postgrad Med** 1994 Apr–Jun;40(2):94–5 (11 ref.)

Adenoid cystic carcinoma of the trachea. A report of 2 cases. Sur RK, et al. **S Afr J Surg** 1996 Nov;34(4):191–2 (8 ref.)

[Cystic adenoid carcinoma of the prostate. Report of a case] Osorio Acosta V, et al. **Arch Esp Urol** 1997 Jan–Feb; 50(1):67–71 (17 ref.) (Eng. Abstr.) **(Spa)**

CHEMISTRY

Proliferating patterns of salivary gland adenocarcinomas with the use of PCNA labeling. Zhao M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2693–8

DIAGNOSIS

Eccrine spiradenoma mimicking adenoid cystic carcinoma on fine needle aspiration. A case report. Kolda TF, et al. **Acta Cytol** 1997 May–Jun;41(3):852–8

Greater superficial petrosal nerve: anatomy and MR findings in perineural tumor spread. Ginsberg LE, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):389–93

Imaging quiz case 1. Adenoid cystic carcinoma. Ptachewich Y, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep; 123(9):1010, 1012–3

Dermal cylindroma and eccrine spiradenoma. Lee MW, et al. **Australas J Dermatol** 1996 Feb;37(1):48–9

Adenoid cystic carcinoma of the external auditory canal: correlation between histological features and MRI appearances. Aikawa H, et al. **Br J Radiol** 1997 May; 70(833):530–2

Adenoid cystic carcinoma of the breast: utility of immunocytochemical study with collagen IV on fine-needle aspiration. Quinodoz IS, et al. **Diagn Cytopathol** 1997 May;16(5):442–5

Poorly-differentiated adenoid cystic carcinoma: cytologic appearance in fine-needle aspirates of distant metastases. Yu GH, et al. **Diagn Cytopathol** 1996 Nov;15(4):296–300 (27 ref.)

Occult perineural tumor infiltration of the trigeminal nerve. Diagnostic considerations. ten Hove MW, et al. **J Neuroophthalmol** 1997 Sep;17(3):170–7

Ki-67 as a prognostic marker in adenoid cystic carcinoma assessed with the monoclonal antibody MIB1 in paraffin sections. Nordgård S, et al. **Laryngoscope** 1997 Apr; 107(4):531–6

[Carinal, adenoid, cystic carcinoma mimicking bronchial asthma] Weizman Y, et al. **Harefuah** 1996 Aug; 131(3–4):90–2, 143 (Eng. Abstr.) **(Heb)**

[Fine needle biopsy in the preoperative diagnosis of parotid tumors] Berrone S, et al. **Minerva Stomatol** 1995 Nov; 44(11):515–9 (Eng. Abstr.) **(Ita)**

[Very rare case of adenoid cystic carcinoma of the hypopharynx] Sugihara E, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):883–5 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Phase II study on mitoxantrone in adenoid cystic carcinomas of the head and neck. EORTC Head and Neck Cancer Cooperative Group. Verweij J, et al. **Ann Oncol** 1996 Oct; 7(8):867–9

A woman with a balanced autosomal translocation who received chemotherapy while pregnant. Kim WY, et al. **Med Health R I** 1996 Nov;79(11):396–9

Cisplatin and 5-fluorouracil for symptom control in advanced salivary adenoid cystic carcinoma. Hill ME, et al. **Oral Oncol** 1997 Jul;33(4):275–8

EPIDEMIOLOGY

Malignant salivary gland tumours in Sweden 1960–1989—an epidemiological study. Ostman J, et al. **Oral Oncol** 1997 May;33(3):169–76

GENETICS

Multiple facial cylindromas in twins [letter] Cucurell M, et al. **Acta Derm Venereol** 1996 Jul;76(4):333–4

Observations by chromosome banding, FISH and immunohistochemistry in an adenoid cystic carcinoma with del(17)(p13) as the sole deviation. Röijer E, et al. **Virchows Arch** 1997 Apr;430(4):339–42

IMMUNOLOGY

[Illness stage and IgA-anti-Fab/F(ab')2 autoantibody activity in serum of patients with malignant head-neck tumors] Lorenz KJ, et al. **Laryngorhinootologie** 1996 Dec; 75(12):764–8 (Eng. Abstr.) **(Ger)**

METABOLISM

Extracellular matrices expression in invasion area of adenoid cystic carcinoma of salivary glands. Shintani S, et al. **Cancer Lett** 1997 Jun 3;116(1):9–14

p53 oncoprotein accumulation in adenoid cystic carcinoma of parotid and palatine salivary glands. Zhu QR, et al. **Pathology** 1997 May;29(2):154–8

MORTALITY

Twenty two year survival after incomplete resection of advanced adenoid cystic bronchogenic carcinoma. Schoenfeld N, et al. **Eur Respir J** 1996 Jul;9(7):1560–1

[Adenoid cystic carcinoma in patients in the ENT Department of the K. Marcinkowski University of Medical Sciences in Poznan in years 1980–1995] Szmeja Z, et al. **Otolaryngol Pol** 1996;50(4):363–71 (Eng. Abstr.) **(Pol)**

PATHOLOGY

Fine needle aspiration of pleomorphic adenoma and adenoid cystic carcinoma of salivary gland origin. Kapadia SB, et al. **Acta Cytol** 1997 Mar–Apr;41(2):487–92

Differential diagnosis of adenoid cystic carcinoma from pleomorphic adenoma of the salivary gland on fine needle aspiration cytology. Lee SS, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1246–52

Cytologic features of primary adenoid cystic carcinoma of the uterine cervix. A case report. Ravinsky E, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1304–8

Well-differentiated malignant cylindroma [letter; comment] Sangüeza OP. **Am J Dermatopathol** 1996 Feb;18(1):107–9 . Comment on: Am J Dermatopathol 1995 Apr;17(2):169–73.

Adenoid cystic carcinoma developing in the nasal orbit. Shields JA, et al. **Am J Ophthalmol** 1997 Mar;123(3):398–9

Observer variability in histological malignancy grading of adenoid cystic carcinomas. Therkildsen MH, et al. **APMIS** 1997 Jul;105(7):559–65

Fine needle aspiration (FNA) cytology of adenoid cystic carcinoma and adenomyoepithelioma of breast: two lesions rich in myoepithelial cells. McCluggage WG, et al. **Cytopathology** 1997 Feb;8(1):31–9

Exfoliative cytology of tracheobronchial adenoid cystic carcinoma. Chen KT. **Diagn Cytopathol** 1996 Aug; 15(2):132–5

Fine-needle aspiration biopsy of adenoid cystic carcinoma of the breast: a case report. Culubret M, et al. **Diagn Cytopathol** 1996 Dec;15(5):431–4

Fine-needle aspiration cytodiagnosis of adenoid cystic carcinoma of the breast. Gupta RK, et al. **Diagn Cytopathol** 1996 Jun;14(4):328–30

Fine-needle sampling of salivary gland lesions. III. Cytologic and histologic correlation of 75 cases of adenoid cystic carcinoma: review and experience at the Institut Curie with emphasis on cytologic pitfalls. Klijanienko J, et al. **Diagn Cytopathol** 1997 Jul;17(1):36–41

Poorly-differentiated adenoid cystic carcinoma: cytologic appearance in fine-needle aspirates of distant metastases. Yu GH, et al. **Diagn Cytopathol** 1996 Nov;15(4):296–300 (27 ref.)

Loss of heterozygosity and microsatellite alterations in p53 and RB genes in adenoid cystic carcinoma of the salivary glands. Yamamoto Y, et al. **Hum Pathol** 1996 Nov; 27(11):1204–10

Adenoid cystic carcinoma of the submandibular gland with symptomatic ovarian metastases. Longacre TA, et al. **Int J Gynecol Pathol** 1996 Oct;15(4):349–55

Selection of adenoid cystic carcinoma cell clone highly metastatic to the lung: an experimental study. Guan XF, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):116–9

Adenoid cystic carcinoma arising in the intrapulmonary bronchus. Azukari K, et al. **Intern Med** 1996 May; 35(5):407–9

Multiple malignant cylindromas of skin in association with basal cell adenocarcinoma with adenoid cystic features of minor salivary gland. Antonescu CR, et al. **J Cutan Pathol** 1997 Aug;24(7):449–53

A nevoid plaque with histological changes of trichoepithelioma and cylindroma in Brooke-Spiegler syndrome. An immunohistochemical study with cytokeratins. Schirren CG, et al. **J Cutan Pathol** 1995 Dec; 22(6):563–9

Septal, widely infiltrative and clinically occult adenoid cystic carcinoma of the parotid gland. Coup A, et al. **J Laryngol Otol** 1997 May;111(5):491–2

Adenoid cystic carcinoma of the sublingual salivary gland in a 16-year-old female—report of a case and review of the literature. McFall MR, et al. **J Laryngol Otol** 1997 May; 111(5):485–8 (20 ref.)

Pseudocyst formation by adenoid cystic carcinoma cells in

collagen gel culture and in SCID mice. Munakata R, et al. **J Oral Pathol Med** 1996 Sep;25(8):441–8

Nasopharyngeal adenoid cystic carcinoma: five new cases and a literature review. Wang CC, et al. **J Otolaryngol** 1996 Dec;25(6):399–403

Adenoid cystic ovarian carcinoma compared with other adenoid cystic carcinomas of the female genital tract. Feczko JD, et al. **Mod Pathol** 1996 Apr;9(4):413–7

Thymic basaloid carcinoma: a case report and review of the literature. Iezzoni JC, et al. **Mod Pathol** 1996 Jan;9(1):21–5 (10 ref.)

Glandular tumors of the lacrimal sac. Their histopathologic patterns and possible origins. Pe'er J, et al. **Ophthalmology** 1996 Oct;103(10):1601–5

Adenoid cystic carcinomas of the lacrimal gland in childhood and adolescence. Tellado MV, et al. **Ophthalmology** 1997 Oct;104(10):1622–5

Tumors arising in the palpebral lobe of the lacrimal gland. Vangveeravong S, et al. **Ophthalmology** 1996 Oct; 103(10):1606–12 (38 ref.)

Adenomyoepithelioma of the breast with exaggerated proliferation of epithelial cells: report of a case. Nomura K, et al. **Pathol Int** 1996 Dec;46(12):1011–4

Stromal melanocytosis of an adenoid cystic carcinoma arising from the palatal minor salivary gland. Takeda Y. **Pathol Int** 1996 Jun;46(6):467–70 (19 ref.)

Test and teach. Number eighty two. Diagnosis: Adenomyoepithlioma of the breast. Lukin LJ, et al. **Pathology** 1997 Feb;29(1):41, 88

A case report of adenoid cystic carcinoma of the nasopharynx with aggressive systemic bone metastases. Takahashi T, et al. **Radiat Med** 1995 Nov–Dec;13(6):301–3

Adenoid cystic carcinoma of the esophagus: report of a case. Kitada H, et al. **Surg Today** 1997;27(3):238–42

Adenoid cystic carcinoma of the esophagus: report of a case and review of the Japanese literature. Morisaki Y, et al. **Surg Today** 1996;26(12):1006–9 (15 ref.)

A hybrid carcinoma: adenoid cystic carcinoma and salivary duct carcinoma of the salivary gland. An immunohistochemical study. Kamio N, et al. **Virchows Arch** 1997 Jun;430(6):495–500

Adenomyoepithelioma of the breast--its diagnostic problems and histogenesis. Choi JS, et al. **Yonsei Med J** 1996 Aug; 37(4):284–9

[Adenoid basal carcinoma and adenoid cystic carcinoma of the uterine cervix] Lefrancq T, et al. **Ann Pathol** 1997 Jul; 17(3):196–9 (Eng. Abstr.) **(Fre)**

[Intra-mandibular location of a adenoid cystic carcinoma. Review of the literature] Tarayre F, et al. **Rev Stomatol Chir Maxillofac** 1996;97(4):221–4 (13 ref.) (Eng. Abstr.) **(Fre)**

[The problem of lymph nodes in malignant epithelial tumors of the parotid gland] Pastore A, et al. **Acta Otorhinolaryngol Ital** 1995 Apr;15(2):87–90 (Eng. Abstr.) **(Ita)**

[Rare association of a mixed tumor of the skin with a carcinoma of low grade malignancy. Clinical case] Riboni V, et al. **Minerva Chir** 1996 Jul–Aug;51(7–8):617–20 (Eng. Abstr.) **(Ita)**

[Adenoid cystic carcinoma of the larynx, trachea and thyroid] Gryczyński M, et al. **Otolaryngol Pol** 1995;49(5):475–9 (Eng. Abstr.) **(Pol)**

RADIOGRAPHY

Unusual appearance of an intracranial metastatic adenoid cystic carcinoma: comedo-necrosis showed very hyperdense nodules on CT scans. Lee SH, et al. **Eur J Radiol** 1997 Jul;25(1):41–3

RADIOTHERAPY

European results in neutron therapy of malignant salivary gland tumors. Krüll A, et al. **Bull Cancer Radiother** 1996; 83 Suppl:125–9s (44 ref.)

Neutron radiotherapy for adenoid cystic carcinoma of minor salivary glands. Douglas JG, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):87–93

Does additional brachytherapy improve the effect of external irradiation? A prospective, randomized study in central lung tumors. Huber RM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):533–40

Adenoid cystic carcinoma of the airway: thirty-two-year experience. Maziak DE, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1522–31; discussion 1531–2

SECONDARY

Selection of adenoid cystic carcinoma cell clone highly metastatic to the lung: an experimental study. Guan XF, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):116–9

Neuro-ophthalmologic manifestations of adenoid cystic carcinoma. Lee AG, et al. **J Neuroophthalmol** 1997 Sep; 17(3):183–8

Cisplatin and 5-fluorouracil for symptom control in advanced salivary adenoid cystic carcinoma. Hill ME, et al. **Oral Oncol** 1997 Jul;33(4):275–8

A case report of adenoid cystic carcinoma of the nasopharynx with aggressive systemic bone metastases. Takahashi T, et al. **Radiat Med** 1995 Nov–Dec;13(6):301–3

Massive pleural effusion as isolated manifestation of metastatic spread of salivary adenoid cystic carcinoma. Torre W, et al. **Respir Med** 1997 Mar;91(3):169–70

SURGERY

Infratemporal fossa surgery for malignant diseases. Iannetti G, et al. **Acta Neurochir (Wien)** 1996;138(6):658–71; discussion 671

Tracheal tumors. Mathisen DJ. **Chest Surg Clin N Am** 1996 Nov;6(4):875–98 (16 ref.)

Primary cutaneous adenoid cystic carcinoma [letter] Irvine AD, et al. **Clin Exp Dermatol** 1996 May;21(3):249–50

Adenoid cystic carcinoma of the airway: thirty-two-year experience. Maziak DE, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1522–31; discussion 1531–2

THERAPY

Adenoid cystic carcinoma of the salivary glands: a review of 10 years. Sur RK, et al. **Laryngoscope** 1997 Sep; 107(9):1276–80 (9 ref.)

[Cystic adenoid carcinomas (cylindromas) and olfactory esthesio-neuromas of the nasal cavities and paranasal sinuses. Experience of the ORL Group of the National Federation of Cancer Centers] Schwaab G, et al. **Neurochirurgie** 1997;43(2):118–20 (Eng. Abstr.) **(Fre)**

ULTRASTRUCTURE

Prognostic significance of nucleolar organizer regions in adenoid cystic carcinomas of the head and neck. Xie X, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun; 123(6):615–20

VIROLOGY

Detection of integrated high risk human papillomavirus in adenoid cystic carcinoma of the uterine cervix. Grayson W, et al. **J Clin Pathol** 1996 Oct;49(10):805–9

CARCINOMA, ADENOSQUAMOUS

Adenosquamous carcinoma of the pancreas. Makiyama K, et al. **J Gastroenterol** 1995 Dec;30(6):798–802 (18 ref.)

Adenosquamous carcinoma of the penis. Mašera A, et al. **J Urol** 1997 Jun;157(6):2261

BLOOD

Prognostic value of preoperative squamous cell carcinoma antigen level in patients surgically treated for cervical carcinoma. Bolger BS, et al. **Gynecol Oncol** 1997 May; 65(2):309–13

A primary adenosquamous carcinoma of the liver with an elevated level of serum squamous cell carcinoma related antigen. Yamamoto K, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):658–62

COMPLICATIONS

Pseudoachalasia: a report of two cases with comments on possible causes and diagnosis. Campos CT, et al. **Dis Esophagus** 1997 Jul;10(3):220–4

DIAGNOSIS

Adenosquamous carcinoma of the facial bones, skull base, and calvaria: CT and MR manifestations. Som PM, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):173–5

Adenosquamous carcinoma of the bile duct: cytologic features of brush specimens from two cases. Hughes JH, et al. **Diagn Cytopathol** 1996 Nov;15(4):322–4

DRUG THERAPY

Oestrogen increases S-phase fraction and oestrogen and progesterone receptors in human cervical cancer in vivo. Bhattacharya D, et al. **Br J Cancer** 1997;75(4):554–8

Induction of cyclin-dependent kinase inhibitor, p21WAF1, by treatment with 3,4-dihydro-6-[4-(3,4)-dimethoxybenzoyl)-1-piperazinyl]-2(1H)-quinoline (vesnarinone) in a human salivary cancer cell line with mutant p53 gene. Sato M, et al. **Cancer Lett** 1997 Jan 30;112(2):181–9

ETHNOLOGY

Impact of ethnicity on the incidence of high-risk endometrial carcinoma. Plaxe SC, et al. **Gynecol Oncol** 1997 Apr; 65(1):8–12

GENETICS

Correlation between human papillomavirus positivity and p53 gene overexpression in adenocarcinoma of the uterine cervix. Uchiyama M, et al. **Gynecol Oncol** 1997 Apr; 65(1):23–9

Rectal adenosquamous carcinoma and carcinoma stomach in two family members. Misra V, et al. **Indian J Gastroenterol** 1997 Apr;16(2):66–7

Microsatellite instability in cervical and endometrial carcinomas. Helland A, et al. **Int J Cancer** 1997 Mar 4; 70(5):499–501

Detection of low-fraction K-ras mutations in primary lung tumors using a sensitive method. Keohavong P, et al. **Int J Cancer** 1997 Apr 22;74(2):162–70

IMMUNOLOGY

Infiltration by immunocompetent cells in early stage invasive carcinoma of the uterine cervix: a prognostic study. Bethwaite PB, et al. **Pathology** 1996 Nov;28(4):321–7

METABOLISM

Induction of cyclin-dependent kinase inhibitor, p21WAF1, by treatment with 3,4-dihydro-6-[4-(3,4)-dimethoxybenzoyl)-1-piperazinyl]-2(1H)-quinoline (vesnarinone) in a human salivary cancer cell line with mutant p53 gene. Sato M, et al. **Cancer Lett** 1997 Jan 30;112(2):181–9

MN antigen expression in normal, preneoplastic, and neoplastic esophagus: a clinicopathological study of a new cancer-associated biomarker. Turner JR, et al. **Hum Pathol** 1997 Jun;28(6):740–4

[Increase of cellular fibrinolysis in human lung cancer cell line by radiation: relationship between urokinase-type plasminogen activator (uPA) and metastasis and invasion] Itoh YH, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep;56(11):747–9 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Rapidly progressive cervical cancer: the Connecticut experience. Schwartz PE, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 2):1105–9

Posterior urethral valves associated with posterior urethral and bladder stones. Siddiqui KH, et al. **Br J Urol** 1996 Oct;78(4):644–5

Adenosquamous carcinoma of the liver: clinicopathologic characteristics and cytokeratin profile. Maeda T, et al. **Cancer** 1997 Aug 1;80(3):364–71

Fine-needle aspiration of low grade adenosquamous carcinoma of the breast. Krigman HR, et al. **Diagn Cytopathol** 1996 Jun;14(4):321–4

Composite tumor of the esophagus with tripartite differentiation. Nishimaki T, et al. **Dig Dis Sci** 1997 May; 42(5):1041–6

Prognostic significance of serum tumour markers in carcinoma of the cervix. Ngan HY, et al. **Eur J Gynaecol Oncol** 1996;17(6):512–7

Primary adenosquamous carcinoma of the colon. Tsuchiya A, et al. **Fukushima J Med Sci** 1995 Dec;41(2):135–9

Advanced endometrial cancer detected at 7 months after childbirth. Kodama J, et al. **Gynecol Oncol** 1997 Mar; 64(3):501–6 (12 ref.)

An analysis of cell type in patients with surgically staged stage IB carcinoma of the cervix: a Gynecologic Oncology Group study. Look KY, et al. **Gynecol Oncol** 1996 Dec; 63(3):304–11

Prognostic value of peritoneal cytology in patients with carcinoma of the uterine cervix. Takeshima N, et al. **Gynecol Oncol** 1997 Jan;64(1):136–40

Adenosquamous carcinoma with different morphologic and histologic components arising from the intrahepatic bile duct: report of a case. Ochiai T, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):663–6

A study of the value and prognostic significance of mucin staining in squamous cell carcinoma of the uterine cervix. Langlois NE, et al. **Histopathology** 1996 Feb;28(2):175–8

Metaplastic breast carcinoma. Smith DM, et al. **J Am Osteopath Assoc** 1996 Jul;96(7):419–21

Effect of suramin on squamous differentiation and apoptosis in three human non-small-cell lung cancer cell lines. Lokshin A, et al. **J Cell Biochem Suppl** 1996;24:186–97

Adenosquamous carcinoma of the stomach associated with separate early gastric cancer (type IIc). Toyota N, et al. **J Gastroenterol** 1996 Feb;31(1):105–8 (18 ref.)

Adenosquamous carcinoma arising in a mucinous cystadenoma of the pancreas. Campman SC, et al. **J Surg Oncol** 1997 Feb;64(2):159–62

Low-grade adenosquamous carcinoma of the breast: a case report with cytologic findings and review of the literature. Shizawa S, et al. **Pathol Int** 1997 Apr;47(4):264–7 (19 ref.)

Expression of basic fibroblast growth factor (FGF-2)-associated with tumour proliferation in human pancreatic carcinoma. Yamazaki K, et al. **Virchows Arch** 1997 Aug;431(2):95–101

[Objective histological grading of squamous and adenosquamous lung cancer] Ladekarl M, et al. **Ugeskr Laeger** 1996 Sep 30;158(40):5611–5 (Eng. Abstr.) **(Dan)**

[A clinicopathological study of adenosquamous carcinoma of the lung] Mukaida T, et al. **Kyobu Geka** 1996 Nov; 49(12):975–9; discussion 979–81 (Eng. Abstr.) **(Jpn)**

[Increase of cellular fibrinolysis in human lung cancer cell line by radiation: relationship between urokinase-type plasminogen activator (uPA) and metastasis and invasion] Itoh YH, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep;56(11):747–9 (Eng. Abstr.) **(Jpn)**

[Analysis of small peripheral lung cancer diagnosed by open lung or thoracoscopic biopsy] Nomori H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):146–8 (Eng. Abstr.) **(Jpn)**

[A case of adenosquamous carcinoma of the esophagus, having signet ring cell carcinoma and mucinous adenocarcinoma in the component of well differentiated adenocarcinoma] Tomimatsu H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep;93(9):644–9 (18 ref.) **(Jpn)**

RADIONUCLIDE IMAGING

Intense Ga-67 uptake in adenosquamous carcinoma of the pancreas. Kuji I, et al. **Ann Nucl Med** 1997 Feb;11(1):41–3

False-positive thallium uptake in the chest for recurrent lung carcinoma. Kempf JS, et al. **Clin Nucl Med** 1996 Nov; 21(11):884

RADIOTHERAPY

Prognostic factors in endometrial carcinoma: risk groups and adjuvant radiotherapy. García-Doménech RV, et al. **Eur J Gynaecol Oncol** 1997;18(3):164-70

SECONDARY

Choroidal metastasis of mixed carcinoma of the parotid gland. Pinilla I, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Aug;235(8):541-3

A clinical and pathologic study on para-aortic lymph node metastasis in endometrial carcinoma. Hirahatake K, et al. **J Surg Oncol** 1997 Jun;65(2):82-7

Pulmonary metastasis to the nasal tip. Gal TJ, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):139

[Adenosquamous cell carcinoma of the lung with multiple cystic metastases in the liver] Mizuguchi M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar; 35(3):306-10 (Eng. Abstr.) **(Jpn)**

SURGERY

Modified type IV-V radical hysterectomy with systematic pelvic and aortic lymphadenectomy in the treatment of patients with stage III cervical carcinoma. Feasibility, technique, and clinical results. Benedetti-Panici P, et al. **Cancer** 1996 Dec 1;78(11):2359-65

Adenosquamous carcinoma of the colon and rectum. Petrelli NJ, et al. **Dis Colon Rectum** 1996 Nov;39(11):1265-8

Hepatopancreatoduodenectomy in advanced carcinoma gall bladder. Kumar R, et al. **Indian J Gastroenterol** 1996 Apr; 15(2):68-9

[Tumor dissemination after thoracoscopic resection of malignant pulmonary coin lesions] Buhr J, et al. **Chirurg** 1996 Jan;67(1):81-5 (Eng. Abstr.) **(Ger)**

THERAPY

Treatment of node-positive endometrial cancer with complete node dissection, chemotherapy and radiation therapy. Onda T, et al. **Br J Cancer** 1997;75(12):1836-41

[Two cases of adenosquamous cell carcinoma of advanced cervical cancer treated by carboplatin-based chemotherapy with peripheral blood stem cell autotransplant] Takeda S, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):1013-7 (Eng. Abstr.) **(Jpn)**

VIROLOGY

Human papillomavirus type 18 DNA sequences in adenocarcinoma and adenosquamous carcinoma of the uterine cervix. Teshima H, et al. **Arch Gynecol Obstet** 1997; 259(4):169-77

Type of human papillomavirus is related to clinical features of cervical carcinoma. Nakagawa S, et al. **Cancer** 1996 Nov 1;78(9):1935-41

Human papillomavirus detection in adenocarcinoma and adenosquamous carcinoma of the uterine cervix in Taiwan. Tseng HH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan;57(1):47-53

CARCINOMA, ADRENAL CORTICAL

[Adrenocortical carcinoma. Current approaches in diagnosis and treatment] Sapienza P, et al. **Ann Ital Chir** 1995 Sep-Oct;66(5):651-63 (123 ref.) (Eng. Abstr.) **(Ita)**

BLOOD

Erythropoietin-producing adrenocortical carcinoma. Oka T, et al. **Urol Int** 1996;56(4):246-9

CHEMISTRY

Autocrine-paracrine role of endothelin-1 in the regulation of aldosterone synthase expression and intracellular Ca2+ in human adrenocortical carcinoma NCI-H295 cells. Rossi GP, et al. **Endocrinology** 1997 Oct;138(10):4421-6

COMPLICATIONS

A case of Cushing's syndrome due to adrenocortical carcinoma with recurrence 19 months after laparoscopic adrenalectomy. Ushiyama T, et al. **J Urol** 1997 Jun; 157(6):2239

DIAGNOSIS

Prevalence of adrenal carcinoma among incidentally discovered adrenal masses. A retrospective study from 1989 to 1994. Gruppo Piemontese Incidentalomi Surrenalici. Terzolo M, et al. **Arch Surg** 1997 Aug;132(8):914-9

Clinical characteristics of small functioning adrenocortical tumors in children. Michalkiewicz EL, et al. **Med Pediatr Oncol** 1997 Mar;28(3):175-8

Index of suspicion. Case 3. Diagnosis: Cushing syndrome. Babl FE, et al. **Pediatr Rev** 1996 Aug;17(8):291, 293-4

Correction to a previously published case: recurrence of invasive adrenocortical tumor after excision of atypical adenoma. Outwater EK, et al. **Radiology** 1997 Feb; 202(2):531-2

DRUG THERAPY

Impact of adjuvant mitotane on the clinical course of patients with adrenocortical cancer. Two years later [letter] Kasperlik-Załuska AA, et al. **Cancer** 1996 Oct 1; 78(7):1520-1

EPIDEMIOLOGY

Prevalence of adrenal carcinoma among incidentally discovered adrenal masses. A retrospective study from 1989 to 1994. Gruppo Piemontese Incidentalomi Surrenalici. Terzolo M, et al. **Arch Surg** 1997 Aug;132(8):914-9

GENETICS

DAX1 gene expression upregulated by steroidogenic factor 1 in an adrenocortical carcinoma cell line. Vilain E, et al. **Biochem Mol Med** 1997 Jun;61(1):1-8

Rapid diagnosis of germline p53 mutation using the enzyme mismatch cleavage method. Giunta C, et al. **Diagn Mol Pathol** 1996 Dec;5(4):265-70

METABOLISM

Expression of p53 in adrenocortical tumours: clinicopathological correlations. McNicol AM, et al. **J Pathol** 1997 Feb;181(2):146-52

PATHOLOGY

Adrenal cortical carcinoma with a liver metastasis in a child. Report of a case with fine needle aspiration findings and image analysis of nuclear DNA. Moroz K, et al. **Acta Cytol** 1997 Mar-Apr;41(2):569-76

Cytomorphology of adrenocortical carcinoma and comparison with renal cell carcinoma. Sharma S, et al. **Acta Cytol** 1997 Mar-Apr;41(2):385-92

Image cytometric DNA analysis of adrenocortical neoplasms as a prognostic parameter: a clinico-pathologic study of 13 patients. Lü X, et al. **Anal Cell Pathol** 1996 Oct; 12(1):1-11

SURGERY

Adrenal cortical carcinoma associated with venous tumour thrombus extension. Figueroa AJ, et al. **Br J Urol** 1997 Sep;80(3):397-400

VETERINARY

Ultrasonographic diagnosis of an adrenocortical carcinoma in a dog. Liste F, et al. **Vet Rec** 1997 Mar 29;140(13):339-41

CARCINOMA, ALVEOLAR see **ADENOCARCINOMA, BRONCHIOLO-ALVEOLAR**

CARCINOMA, ANAPLASTIC see **CARCINOMA**

CARCINOMA, BASAL CELL

New types of cancer after basal-cell cancer [letter; comment] Stewart GM. **Ann Intern Med** 1997 Jul 1;127(1):87; discussion 87-8. Comment on: Ann Intern Med 1996 Nov 15;125(10):815-21.

Etiology and pathogenesis of basal cell carcinoma. Miller SJ. **Clin Dermatol** 1995 Nov-Dec;13(6):527-36 (185 ref.)

Basal cell carcinoma of the scrotum. Schleicher SM, et al. **Cutis** 1997 Mar;59(3):116

Vulvar basal cell carcinoma. Miller ES, et al. **Dermatol Surg** 1997 Mar;23(3):207-9

Basal-cell carcinoma as predictor for other cancers. Goldberg LH. **Lancet** 1997 Mar 8;349(9053):664-5

Basal cell carcinoma in the groin of a black patient with femoral vessel invasion and a second primary malignancy. Beckenstein MS, et al. **Plast Reconstr Surg** 1996 Oct; 98(5):872-5

BLOOD SUPPLY

Differences in tumor microvessel density between squamous cell carcinomas and basal cell carcinomas may relate to their different biologic behavior. Weninger W, et al. **J Cutan Pathol** 1997 Jul;24(6):364-9

CHEMICALLY INDUCED

Chemical exposures, medical history, and risk of squamous and basal cell carcinoma of the skin. Gallagher RP, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):419-24

CHEMISTRY

Perianal basal cell carcinoma: a comparative histologic, immunohistochemical, and flow cystometric study with basaloid carcinoma of the anus. Alvarez-Cañas MC, et al. **Am J Dermatopathol** 1996 Aug;18(4):371-9

Immunohistochemical study of primary and recurrent basal cell and metatypical carcinomas of the skin. Kazantseva IA, et al. **Am J Dermatopathol** 1996 Feb;18(1):35-42

Differential expression of alpha 1(IV), alpha 2(IV), alpha 5(IV) and alpha 6(IV) collagen chains in the basement membrane of basal cell carcinoma. Tanaka K, et al. **Histochem J** 1997 Jul;29(7):563-70

COMPLICATIONS

New types of cancer after basal-cell cancer [letter; comment] Shimm DS. **Ann Intern Med** 1997 Jul 1;127(1):87; discussion 87-8. Comment on: Ann Intern Med 1996 Nov 15;125(10):815-21.

Profound anaemia secondary to an ulcerated basal cell carcinoma [letter] Higgins J, et al. **Clin Exp Dermatol** 1996 Sep;21(5):389-90

Two cases of basal cell carcinoma arising in seborrheic keratosis. Akasaka T, et al. **J Dermatol** 1997 May; 24(5):322-7

DIAGNOSIS

A giant solitary molluscum contagiosum, resembling nodular basal cell carcinoma, in a renal transplant recipient [letter] Taşkapan O, et al. **Acta Derm Venereol** 1996 May; 76(3):247-8

Diagnosis of nonmelanoma skin cancer. Brodland DG. **Clin Dermatol** 1995 Nov-Dec;13(6):551-7 (6 ref.)

Plaque variant of trichoblastic fibroma [letter] Betti R, et al. **Clin Exp Dermatol** 1996 May;21(3):250-1

Basal cell carcinoma in a teenage boy. Koch SE, et al. **Clin Pediatr (Phila)** 1997 Feb;36(2):113-4

Malignant primary skin tumors in children. Sasson M, et al. **Curr Opin Pediatr** 1996 Aug;8(4):372-7 (34 ref.)

Cytological features of pigmented basal cell carcinoma--a potential diagnostic pitfall. Calder CJ, et al. **Cytopathology** 1996 Apr;7(2):132-5

The use of antidesmoglein stains in Mohs micrographic surgery. A potential aid for the differentiation of basal cell carcinoma from horizontal sections of the hair follicle and folliculocentric basaloid proliferation. Krunic AL, et al. **Dermatol Surg** 1997 Jun;23(6):463-8

Adenoid basal carcinoma of the cervix: a potential pitfall in cervicovaginal cytology. Powers CN, et al. **Diagn Cytopathol** 1996 Mar;14(2):172-7

Chronic varicella zoster infection mimicking a basal cell carcinoma in an AIDS patient. Tsao H, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):831-3

Occult perineural tumor infiltration of the trigeminal nerve. Diagnostic considerations. ten Hove MW, et al. **J Neuroophthalmol** 1997 Sep;17(3):170-7

Nonmelanoma skin cancer. Katz MH. **Md Med J** 1997 May-Jun;46(5):239-42 (20 ref.)

Did Leonardo da Vinci have a BCC? [letter] Gapp GL, et al. **Med J Aust** 1996 Dec 2-16;165(11-12):681-2

Statistical evaluation of epiluminescence microscopy criteria in the differential diagnosis of malignant melanoma and pigmented basal cell carcinoma. Püspök-Schwarz M, et al. **Melanoma Res** 1997 Aug;7(4):307-11

Deep cerebral invasion by basal cell carcinoma of the scalp. Parizel PM, et al. **Neuroradiology** 1996 Aug;38(6):575-7

Basal and squamous cell carcinomas. What every primary care physician should know. Marghoob AA. **Postgrad Med** 1997 Aug;102(2):139-42, 146, 152-4 passim (20 ref.)

[Malignant skin neoplasms] Karapetian RM, et al. **Ter Arkh** 1995;67(12):72-3 **(Rus)**

DRUG THERAPY

Local recurrence of basal cell carcinoma and cisplatinum containing chemotherapy. Moeholt K, et al. **Acta Oncol** 1997;36(1):87

Platinum-based cytotoxic therapy in basal cell carcinoma--a review of the literature. Moeholt K, et al. **Acta Oncol** 1996; 35(6):677-82 (33 ref.)

Radiation therapy and chemotherapy in the conservative treatment of carcinoma of the anal canal: survival and late morbidity in a series of 25 patients. Gabriele AM, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):653-6

Treatment of superficial basal cell carcinomas using topically applied delta-aminolaevulinic acid and a filtered xenon lamp. Wennberg AM, et al. **Arch Dermatol Res** 1996 Sep; 288(10):561-4

Nonsurgical treatment of basal cell carcinomas with intralesional 5-fluorouracil/epinephrine injectable gel. Miller BH, et al. **J Am Acad Dermatol** 1997 Jan;36(1):72-7

ENZYMOLOGY

Overexpression of protein kinase C-alpha and -beta isozymes by stromal dendritic cells in basal and squamous cell carcinoma. Reynolds NJ, et al. **Br J Dermatol** 1997 May; 136(5):666-73

Gene expression of matrix metalloproteinase-1 (interstitial collagenase) and matrix metalloproteinase-3 (stromelysin-1) in basal cell carcinoma by in situ hybridization using chondroitin ABC lyase. Tsukifuji R, et al. **Histochem J** 1997 May;29(5):401-7

EPIDEMIOLOGY

Risk for subsequent cancer after diagnosis of basal-cell carcinoma. A population-based, epidemiologic study [see comments] Frisch M, et al. **Ann Intern Med** 1996 Nov 15; 125(10):815-21. Comment in: Ann Intern Med 1996 Nov 15;125(10):852-4. Comment in: Ann Intern Med 1997 Jul 1;127(1):87; discussion 87-8.

Basal-cell carcinoma of the skin: a harbinger of cutaneous and noncutaneous multiple primary cancer [editorial; comment] Schottenfeld D. **Ann Intern Med** 1996 Nov 15; 125(10):852-4. Comment on: Ann Intern Med 1996 Nov 15;125(10):815-21.

Epidemiology of nonmelanoma skin cancer: a review. Corona

R. **Ann Ist Super Sanita** 1996;32(1):37–42 (60 ref.)
Differences in age and body site distribution of the histological subtypes of basal cell carcinoma. A possible indicator of differing causes. McCormack CJ, et al. **Arch Dermatol** 1997 May;133(5):593–6
Non-Hodgkin's lymphomas, chronic lymphocytic leukaemias and skin cancers. Levi F, et al. **Br J Cancer** 1996 Dec; 74(11):1847–50
Truncal site and detoxifying enzyme polymorphisms significantly reduce time to presentation of further primary cutaneous basal cell carcinoma. Lear JT, et al. **Carcinogenesis** 1997 Aug;18(8):1499–503
Melanoma epidemiology [see comments] Berwick M, et al. **Curr Opin Oncol** 1997 Mar;9(2):178–82 (55 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):175–7.
Epidemiologic data on vulvar cancer: comparison of hospital with population-based data. van der Velden J, et al. **Gynecol Oncol** 1996 Sep;62(3):379–83
Basal cell carcinoma in Qatar. Mahmoud SF, et al. **Int J Dermatol** 1996 Oct;35(10):704–6
Truncal tumor site is associated with high risk of multiple basal cell carcinoma and is influenced by glutathione S-transferase, GSTT1, and cytochrome P450, CYP1A1 genotypes, and their interaction. Lear JT, et al. **J Invest Dermatol** 1997 Apr;108(4):519–22
Skin cancer trends at Wilford Hall Medical Center. LeVasseur JG, et al. **Mil Med** 1997 Jul;162(7):459–62

ETIOLOGY

Basal cell carcinoma arising in a fistula-in-ano. Kulaylat MN, et al. **Am Surg** 1996 Dec;62(12):1000–2 (26 ref.)
Three cases of multiple basal cell carcinoma arising in port-wine stains previously treated with thorium X [letter] Shah M, et al. **Br J Dermatol** 1996 Nov;135(5):861–2
Basal cell carcinoma developing on a burn scar. Koga Y, et al. **Burns** 1997 Feb;23(1):75–7 (11 ref.)
The role of UVA in the aetiology of non-melanoma skin cancer. de Laat JM, et al. **Cancer Surv** 1996;26:173–91 (109 ref.)
The development of a Marjolin's cancer in a human immunodeficiency virus-positive hemophilic man and review of the literature. Rahimizadeh A, et al. **Dermatol Surg** 1997 Jul;23(7):560–3 (40 ref.)
Risk of basal cell and squamous cell skin cancers after ionizing radiation therapy. For The Skin Cancer Prevention Study Group. Karagas MR, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1848–53
Re: relationship between sunlight exposure and a key genetic alteration in basal cell carcinoma [letter] Lear JT, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):454–5
Therapy with orally administered methoxsalen and ultraviolet A radiation during childhood increases the risk of basal cell carcinoma. The PUVA Follow-up Study. Stern RS, et al. **J Pediatr** 1996 Dec;129(6):915–7 (8 ref.)
Risk factors for basal cell carcinoma in the UK: case-control study in 806 patients. Lear JT, et al. **J R Soc Med** 1997 Jul;90(7):371–4
Basal cell carcinoma in a girl after cobalt irradiation to the cranium for acute lymphoblastic leukemia: case report and literature review. Garcia-Silva J, et al. **Pediatr Dermatol** 1996 Jan-Feb;13(1):54–7 (13 ref.)
Linear basal cell carcinomas: report of multiple sequential tumors localized to a radiotherapy port and review of the literature. Chopra KF, et al. **Tex Med** 1997 Jul;93(7):57–9 (10 ref.)

GENETICS

Basal cell carcinoma occurring in multiple familial trichoepithelioma: detection of loss of heterozygosity in chromosome 9q [letter] Harada H, et al. **Arch Dermatol** 1997 May;133(5):666–7
bcl-2 vs p53 protein expression and apoptotic rate in human nonmelanoma skin cancers. Wikonkal NM, et al. **Arch Dermatol** 1997 May;133(5):599–602
Apoptosis identified with DNA fragmentation in basal cell carcinomas. Mori O, et al. **Arch Dermatol Res** 1996 May; 288(5–6):258–61
p53 mutations and chromosome instability in basal cell carcinomas developed at an early or late age. D'Errico M, et al. **Cancer Res** 1997 Feb 15;57(4):747–52
The reciprocal translocation t(9;16)(q22;p13) is a primary chromosome abnormality in basal cell carcinomas. Jin Y, et al. **Cancer Res** 1997 Feb 1;57(3):404–6
Molecular genetics of human non-melanoma skin cancer. Quinn AG. **Cancer Surv** 1996;26:89–114
Multiple cutaneous basal cell carcinomas: glutathione S-transferase (GSTM1, GSTT1) and cytochrome P450 (CYP2D6, CYP1A1) polymorphisms influence tumour numbers and accrual. Lear JT, et al. **Carcinogenesis** 1996 Sep;17(9):1891–6
Clinical-basic science connection [editorial] Miller SJ. **Dermatol Surg** 1997 Jul;23(7):515–6
Developmental genes and cancer: role of patched in basal cell carcinoma of the skin. Gailani MR, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1103–9 (98 ref.)
Rare syndrome yields important piece of gene puzzle [news] Keoun B. **J Natl Cancer Inst** 1996 Nov 6;88(21):1516–8
Radiosensitivity of blood lymphocytes from basocellular carcinoma patients, as detected by the micronucleus assay. Ochi-Lohmann TH, et al. **Mutat Res** 1996 Oct 25; 357(1–2):97–106
Basal cell carcinomas in mice overexpressing sonic hedgehog. Oro AE, et al. **Science** 1997 May 2;276(5313):817–21

HISTORY

Historical aspects of nonmelanoma skin cancer. Jackson R, et al. **Clin Dermatol** 1995 Nov-Dec;13(6):517–25

IMMUNOLOGY

CD40 expression in epidermal tumors. Viac J, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):569–72
What of the clinical significance of the cryoimmune response? [letter; comment] Ablin RJ. **Dermatol Surg** 1997 Jun; 23(6):499–500. Comment on: Dermatol Surg 1996 Oct;22(10):854–8.
Immune-associated cells in basal cell carcinomas of skin. Deng JS, et al. **J Cutan Pathol** 1996 Apr;23(2):140–6
Proliferating cell nuclear antigen (PCNA); prognostic value in the clinical recurrence of primary basal cell carcinoma. Toth DP, et al. **J Dermatol Sci** 1996 Jan;11(1):36–40
Relation between HLA antigens and skin cancer in renal transplant recipients in Queensland, Australia. Bouwes Bavinck JN, et al. **J Invest Dermatol** 1997 May; 108(5):708–11

METABOLISM

Bcl-2 overexpression in basaloid proliferations overlying dermatofibromas and basal cell carcinomas. Rossen K, et al. **APMIS** 1997 Jan;105(1):35–40
Topical application of a first porphycene dye for photodynamic therapy--penetration studies in human perilesional skin and basal cell carcinoma. Karrer S, et al. **Arch Dermatol Res** 1997 Feb;289(3):132–7
The expression of cytokines by an established basal cell carcinoma cell line (BCC-1/KMC) compared with cultured normal keratinocytes. Yen HT, et al. **Arch Dermatol Res** 1996 Mar;288(3):157–61
Altered expression of the hemidesmosome-anchoring filament complex proteins in basal cell carcinoma: possible role in the origin of peritumoral lacunae. Bahadoran P, et al. **Br J Dermatol** 1997 Jan;136(1):35–42
Metallothionein expression in basaloid proliferations overlying dermatofibromas and in basal cell carcinomas. Rossen K, et al. **Br J Dermatol** 1997 Jan;136(1):30–4
Pharmacokinetic studies on 5-aminolevulinic acid-induced protoporphyrin IX accumulation in tumours and normal tissues. Heyerdahl H, et al. **Cancer Lett** 1997 Jan 30; 112(2):225–31
Human patched (PTCH) mRNA is overexpressed consistently in tumor cells of both familial and sporadic basal cell carcinoma. Undén AB, et al. **Cancer Res** 1997 Jun 15;57(12):2336–40
Epidermal fatty-acid-binding protein in psoriasis, basal and squamous cell carcinomas: an immunohistological study. Masouyé I, et al. **Dermatology** 1996;192(3):208–13
Dysregulated expression of transforming growth factor beta and its type-I and type-II receptors in basal-cell carcinoma. Furue M, et al. **Int J Cancer** 1997 May 16; 71(4):505–9
p53 tumor suppressor gene protein expression in premalignant and malignant skin lesions of kidney transplant recipients. Gibson GE, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):924–31
Expression of retinoic acid receptor proteins in basal cell carcinomas: an immunohistochemical analysis. Kamradt J, et al. **J Histochem Cytochem** 1996 Dec;44(12):1415–20
Stromelysin-3 mRNA associated with myofibroblasts is overexpressed in aggressive basal cell carcinoma and in dermatofibroma but not in dermatofibrosarcoma. Undén AB, et al. **J Invest Dermatol** 1996 Aug;107(2):147–53

MORTALITY

Prognostic factors and outcome in craniofacial surgery for malignant cutaneous tumors involving the anterior skull base. Dias FL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):738–42

PATHOLOGY

Syringocystadenoma papilliferum, basal cell carcinoma and trichilemmoma arising from nevus sebaceus of Jadassohn [letter] Yoon DH, et al. **Acta Derm Venereol** 1997 May; 77(3):242–3
Perianal basal cell carcinoma: a comparative histologic, immunohistochemical, and flow cytometric study with basaloid carcinoma of the anus. Alvarez-Cañas MC, et al. **Am J Dermatopathol** 1996 Aug;18(4):371–9
Malignant melanoma in situ colonizing basal cell carcinoma. A simulator of invasive melanoma. Burkhalter A, et al. **Am J Dermatopathol** 1997 Jun;19(3):303–7
Basal cell carcinoma arising in association with desmoplastic trichilemmoma. Crowson AN, et al. **Am J Dermatopathol** 1996 Feb;18(1):43–8
Immunohistochemical study of primary and recurrent basal cell and metatypical carcinomas of the skin. Kazantseva IA, et al. **Am J Dermatopathol** 1996 Feb;18(1):35–42
Trichoblastoma and basal cell carcinoma are neoplasms with follicular differentiation sharing the same profile of cytokeratin intermediate filaments. Schirren CG, et al. **Am J Dermatopathol** 1997 Aug;19(4):341–50
Human sunlight-induced basal-cell-carcinoma-associated dendritic cells are deficient in T cell co-stimulatory molecules and are impaired as antigen-presenting cells. Nestle FO, et al. **Am J Pathol** 1997 Feb;150(2):641–51
Basal cell and squamous cell carcinomas. Clinico-histological features. Annessi G, et al. **Ann Ist Super Sanita** 1996; 32(1):29–36 (28 ref.)
Nodular basal cell carcinoma in vivo vs in vitro. Establishment of pure cell cultures, cytomorphologic characteristics, ultrastructure, immunophenotype, biosynthetic activities, and generation of antisera. Grando SA, et al. **Arch Dermatol** 1996 Oct;132(10):1185–93
Differences in age and body site distribution of the histological subtypes of basal cell carcinoma. A possible indicator of differing causes. McCormack CJ, et al. **Arch Dermatol** 1997 May;133(5):593–6
Apoptosis identified with DNA fragmentation in basal cell carcinomas. Mori O, et al. **Arch Dermatol Res** 1996 May; 288(5–6):258–61
Neurotropic cutaneous tumors of the head and neck. Osguthorpe JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):871–6
Prognostic factors in carcinoma of the external auditory canal. Testa JR, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):720–4
Basal cell carcinoma. A common skin tumour. Clearihan L. **Aust Fam Physician** 1996 Feb;25(2):248–9
Histology of basal cell carcinoma. Maloney ME. **Clin Dermatol** 1995 Nov-Dec;13(6):545–9 (26 ref.)
Comparative aspects of nonmelanoma skin cancer. Walder EJ. **Clin Dermatol** 1995 Nov-Dec;13(6):569–78 (21 ref.)
Penile basal cell carcinoma with eccrine differentiation. Chang YT, et al. **Clin Exp Dermatol** 1995 Nov;20(6):487–9 (20 ref.)
Giant polypoid basal cell carcinoma. McElroy J, et al. **Cutis** 1996 Oct;58(4):289–92 (25 ref.)
Cytological features of pigmented basal cell carcinoma--a potential diagnostic pitfall. Calder CJ, et al. **Cytopathology** 1996 Apr;7(2):132–5
Basal cell carcinoma involving the lacrimal canaliculus. A documented mechanism of tumor spread. Fosko SW, et al. **Dermatol Surg** 1997 Mar;23(3):203–6
Perineural and neural involvement in skin cancers. Terashi H, et al. **Dermatol Surg** 1997 Apr;23(4):259–64; discussion 264–5
Carcinoma of the mammary crease simulating rodent ulcer basal cell carcinoma. Report of a case with immunohistochemical analysis [letter] Vazquez-López F, et al. **Dermatol Surg** 1997 Jun;23(6):494–5
Transforming growth factor-beta and bcl-2 distribution patterns distinguish trichoepithelioma from basal cell carcinoma. Verhaegh ME, et al. **Dermatol Surg** 1997 Aug; 23(8):695–700
Collision of primary malignant neoplasms on the skin: the connection between malignant melanoma and basal cell carcinoma. Piérard GE, et al. **Dermatology** 1997; 194(4):378–9
Adenoid basal carcinoma of the cervix: a potential pitfall in cervicovaginal cytology. Powers CN, et al. **Diagn Cytopathol** 1996 Mar;14(2):172–7
Basal cell carcinoma metastatic to the salivary glands: differential diagnosis in fine-needle aspiration cytology. Stanley MW, et al. **Diagn Cytopathol** 1997 Mar;16(3):247–52
Cellular proliferation characteristics of basal cell carcinoma: relationship to clinical subtype and histopathology. Horlock NM, et al. **Eur J Surg Oncol** 1997 Jun;23(3):247–52
Malignant melanoma metastasising to a basal cell carcinoma. Cowley GP, et al. **Histopathology** 1996 Nov;29(5):469–70
Basal cell carcinoma of the prostate [letter] Hasan N, et al. **Histopathology** 1996 Jun;28(6):571
Clear cell basal carcinoma: an unusual variant [letter; comment] Reck A, et al. **Histopathology** 1996 Oct; 29(4):390–1. Comment on: Histopathology 1990 Nov;17(5):401–5.
Basal cell carcinomas of covered and unusual sites of the body. Betti R, et al. **Int J Dermatol** 1997 Jul;36(7):503–5
Liposarcoma associated with fever and reversible hepatic dysfunction. Kiyosawa T, et al. **Int J Dermatol** 1997 Feb; 36(2):132–4
Diagnostic value of cytology in basal cell and squamous cell carcinomas [letter] Oram Y, et al. **Int J Dermatol** 1997 Feb; 36(2):156–7
Immunohistochemical nuclear staining for p53, PCNA, and Ki-67 in different histologic variants of basal cell carcinoma. Barrett TL, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):430–7
Correlation of histologic subtypes of primary basal cell carcinoma and number of Mohs stages required to achieve a tumor-free plane. Orengo IF, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):395–7
Trichoepithelioma with an adjacent basal cell carcinoma, transformation or collision? Wallace ML, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):343–5 (10 ref.)
Increased proportion of aggressive-growth basal cell carcinoma in the Veterans Affairs population of Palo Alto, California. Wrone DA, et al. **J Am Acad Dermatol** 1996 Dec;35(6):907–10
Proliferation indexes--a comparison between cutaneous basal and squamous cell carcinomas [letter; comment] Maiolino P, et al. **J Clin Pathol** 1997 Apr;50(4):355. Comment on: J Clin Pathol 1996 Jul;49(7):549–51.
Infundibulocystic basaloid neoplasm. de Eusebio E, et al. **J Cutan Pathol** 1996 Apr;23(2):147–50
Immune-associated cells in basal cell carcinomas of skin.

Deng JS, et al. **J Cutan Pathol** 1996 Apr;23(2):140–6

Merkel cells are absent in basal cell carcinomas but frequently found in trichoblastomas. An immunohistochemical study. Schulz T, et al. **J Cutan Pathol** 1997 Jan;24(1):14–24

Giant basal cell carcinomas: report of four cases and considerations. Betti R, et al. **J Dermatol** 1997 May; 24(5):317–21

Expression of E-cadherin in skin carcinomas. Tada H, et al. **J Dermatol** 1996 Feb;23(2):104–10

Non-melanoma skin cancer: a case-control study on risk factors and protective measures. Suárez-Varela MM, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):255–61

Characteristics of incompletely excised basal cell carcinomas of the skin. Rippey JJ, et al. **Med J Aust** 1997 Jun 2; 166(11):581–3

Thymic basaloid carcinoma: a case report and review of the literature. Iezzoni JC, et al. **Mod Pathol** 1996 Jan;9(1):21–5 (10 ref.)

Induction of basal cell carcinoma features in transgenic human skin expressing Sonic Hedgehog. Fan H, et al. **Nat Med** 1997 Jul;3(7):788–92

The role of cytology in the diagnosis of periocular basal cell carcinomas. Barton K, et al. **Ophthal Plast Reconstr Surg** 1996 Sep;12(3):190–4; discussion 195

Skin: MR imaging findings at middle field strength. Hawnaur JM, et al. **Radiology** 1996 Dec;201(3):868–72

Prognostic factors for cutaneous squamous cell and basal cell carcinoma. Determinants of risk of recurrence, metastasis, and development of subsequent skin cancers. Barksdale SK, et al. **Surg Oncol Clin N Am** 1997 Jul;6(3):625–38 (53 ref.)

Granular cell basal cell carcinoma of the skin. Report of a case with immunocytochemical positivity for lysozyme. Boscaino A, et al. **Tumori** 1997 May-Jun;83(3):712–4

Factor XIIIa-positive dendrocytes and proliferative activity of cutaneous cancers. Piérard-Franchimont C, et al. **Virchows Arch** 1996 Sep;429(1):43–8

[Tumor of the follicular infundibulum. Study of determining follicular differentiation] Schirren CG, et al. **Pathologe** 1996 Nov;17(6):440–5 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

[Changes in the optical characteristics of the skin of patients with basal cell carcinoma] Zhuravel' VG. **Vopr Onkol** 1997; 43(2):151–3 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Non-melanoma skin cancer: a case-control study on risk factors and protective measures. Suárez-Varela MM, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):255–61

Effects of selenium supplementation for cancer prevention in patients with carcinoma of the skin. A randomized controlled trial. Nutritional Prevention of Cancer Study Group [see comments] [published erratum appears in JAMA 1997 May 21;277(19):1520] Clark LC, et al. **JAMA** 1996 Dec 25;276(24):1957–63. Comment in: JAMA 1996 Dec 25;276(24):1984–5. Comment in: JAMA 1997 Mar 19;277(11):880; discussion 881. Comment in: JAMA 1997 Mar 19;277(11):880–1; discussion 881.

[Screening for cutaneous carcinoma] Beani JC. **Bull Cancer** 1996 Sep;83(9):755–7 (Eng. Abstr.) **(Fre)**

RADIOTHERAPY

Radiation therapy and chemotherapy in the conservative treatment of carcinoma of the anal canal: survival and late morbidity in a series of 25 patients. Gabriele AM, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):653–6

The benefit of postoperative radiotherapy in metastatic basal cell carcinoma. Christie DR. **Aust N Z J Surg** 1997 Jul; 67(7):491–3

Extensive basal cell carcinoma treated with the mould radiotherapy technique. Leung JT. **Australas Radiol** 1997 Feb;41(1):20–1

Basal cell carcinoma of the face: surgery or radiotherapy? Results of a randomized study. Avril MF, et al. **Br J Cancer** 1997;76(1):100–6

Conservative treatment by irradiation of epidermoid carcinomas of the anal margin. Peiffert D, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):57–66

Radionuclide therapy of skin cancers and Bowen's disease using a specially designed skin patch. Lee JD, et al. **J Nucl Med** 1997 May;38(5):697–702

Osteomyelitis occurring in the zygomatic bone. Anderson PJ, et al. **J R Coll Surg Edinb** 1997 Jun;42(3):196–7

High-dose radiation-induced meningiomas in elderly. Salvati M, et al. **Neurosurg Rev** 1996;19(2):81–3

Lead contact lens for crystalline lens shielding in electron therapy for eyelid tumors. Kishi K, et al. **Radiat Med** 1996 Mar-Apr;14(2):107–9

[Treatment of eyelid carcinomas of 2 cmm or less by contact radiotherapy] Buatois F, et al. **J Fr Ophtalmol** 1996; 19(6-7):405–9 (Eng. Abstr.) **(Fre)**

REHABILITATION

Basal cell carcinomas cause little handicap. Blackford S, et al. **Qual Life Res** 1996 Apr;5(2):191–4

SECONDARY

The benefit of postoperative radiotherapy in metastatic basal cell carcinoma. Christie DR. **Aust N Z J Surg** 1997 Jul; 67(7):491–3

Basal cell carcinomas in the lung of a patient with naevoid basal cell carcinoma syndrome: metastatic or primary? [letter] Ramón-Faba P, et al. **Br J Dermatol** 1997 Aug; 137(2):313–4

Chest wall resection and reconstruction for metastatic basal cell carcinoma. Cunnick GH, et al. **Eur J Surg Oncol** 1997 Apr;23(2):189–90

SURGERY

Resection of bilateral orbital and cranial base basal cell carcinoma with preservation of vision. Behmand RA, et al. **Ann Plast Surg** 1996 Jun;36(6):637–40

False aneurysm of the superficial temporal artery: a surgical complication. Giele H, et al. **Ann Plast Surg** 1996 Feb; 36(2):219–20

Submental artery island flap for reconstruction of the lower and mid face. Yilmaz M, et al. **Ann Plast Surg** 1997 Jul; 39(1):30–5

Basal cell carcinoma of the face: surgery or radiotherapy? Results of a randomized study. Avril MF, et al. **Br J Cancer** 1997;76(1):100–6

A prospective study of Mohs' micrographic surgery in two English centres. Julian CG, et al. **Br J Dermatol** 1997 Apr; 136(4):515–8

Five-year results of curettage-cryosurgery of selected large primary basal cell carcinomas on the nose: an alternative treatment in a geographical area underserved by Mohs' surgery. Nordin P, et al. **Br J Dermatol** 1997 Feb; 136(2):180–3

The free 'V': a bipennate free flap for double eyelid resurfacing based on the second dorsal metacarpal artery. Yap LH, et al. **Br J Plast Surg** 1997 Jun;50(4):280–3

Principles of reconstruction following excision of nonmelanoma skin cancer. Fazio MJ, et al. **Clin Dermatol** 1995 Nov-Dec;13(6):601–16 (29 ref.)

Mohs micrographic surgery for nonmelanoma skin cancer. Telfer NR. **Clin Dermatol** 1995 Nov-Dec;13(6):593–600 (54 ref.)

What of the clinical significance of the cryoimmune response? [letter; comment] Ablin RJ. **Dermatol Surg** 1997 Jun; 23(6):499–500. Comment on: Dermatol Surg 1996 Oct;22(10):854–8.

Nitrous oxide cryosurgery applied to skin cancers [letter] Boullie MC. **Dermatol Surg** 1997 Aug;23(8):714–6

Hairline reconstruction utilizing modified winged V-plastic hair-bearing flaps and focal anastomotic line excisions. Field LM. **Dermatol Surg** 1996 Nov;22(11):937–40

Fractional cryosurgery. A new technique for basal cell carcinoma of the eyelids and periorbital area. Gonçalves JC. **Dermatol Surg** 1997 Jun;23(6):475–81 (26 ref.)

Peritumoral B cell infiltrate associated with chronic lymphocytic leukemia obscuring margin evaluation during Mohs micrographic surgery [letter] Humphreys TR, et al. **Dermatol Surg** 1996 Oct;22(10):894–6 (21 ref.)

Repair of central upper lip (philtral) surgical defects with island pedicle flaps. Kaufman AJ, et al. **Dermatol Surg** 1996 Dec;22(12):1003–7

Frontonasal flap for reconstruction of complete alar defects. Kurata S, et al. **Dermatol Surg** 1996 Oct;22(10):850–2

Cryosurgery in the treatment of basal cell carcinoma. Assessment of one and two freeze-thaw cycle schedules [see comments] Mallon E, et al. **Dermatol Surg** 1996 Oct; 22(10):854–8. Comment in: Dermatol Surg 1997 Jun;23(6):499–500.

Does inflammation contribute to the eradication of basal cell carcinoma following curettage and electrodesiccation? Spencer JM, et al. **Dermatol Surg** 1997 Aug;23(8):625–30; discussion 630–1

Leaving the eyelid to its own devices. Wohlrab TM, et al. **Ger J Ophthalmol** 1996 Jul;5(4):246–9

Cutaneous nasal malignancies: is primary reconstruction safe? Evans GR, et al. **Head Neck** 1997 May;19(3):182–7

Recurrent basal cell carcinoma treated with cryosurgery. Kuflik EG, et al. **J Am Acad Dermatol** 1997 Jul;37(1):82–4

Long-term follow-up of cryosurgery of basal cell carcinoma of the eyelid. Lindgren G, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):742–6

Surgery and laser therapy. Lawrence CM. **J R Coll Physicians Lond** 1997 Jul-Aug;31(4):369–73 (25 ref.)

Zigzag V-Y advancement flap for medial canthal defect after tumor excision. Lai CS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jan; 12(1):36–42

Mohs micrographic surgery for the treatment of difficult skin cancers. Skouge JW. **Md Med J** 1997 May-Jun;46(5):231–7 (42 ref.)

Primary intracranial metatypical basal cell carcinoma: case report. Gall C, et al. **Neurosurgery** 1997 Jul;41(1):279–81; discussion 281–2

Early division of the conjunctival pedicle in modified Hughes repair of the lower eyelid. McNab AA. **Ophthalmic Surg Lasers** 1996 Jun;27(6):422–4

Management of eyelid sebaceous carcinomas. Dogru M, et al. **Ophthalmologica** 1997;211(1):40–3

Laser microsurgery for superficial T1-T2 basal cell carcinoma of the eyelid margins. Bandieramonte G, et al. **Ophthalmology** 1997 Jul;104(7):1179–84

Sun protection and sunscreen use after surgical treatment of basal cell carcinoma. Harth Y, et al. **Photodermatol Photoimmunol Photomed** 1995 Aug; 11(4):140–2

Reconstruction of the localized eyebrow defect. Cedars MG. **Plast Reconstr Surg** 1997 Sep;100(3):685–9

Temporal bipedicled scalp flap: zone of necrosis by accidental rupture of one pedicle [letter] Giraldo F, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1317–9

A trilobed flap for reconstruction of nasal skin defects. Iida N, et al. **Plast Reconstr Surg** 1997 Sep;100(4):991–5

The V-Y advancement myotarsocutaneous flap for upper eyelid reconstruction. Okada E, et al. **Plast Reconstr Surg** 1997 Sep;100(4):996–8

A new flap for nasal tip reconstruction. Wheatley MJ, et al. **Plast Reconstr Surg** 1997 Jan;99(1):220–4

The enhancement of wound healing with human skin allograft. Spence RJ, et al. **Surg Clin North Am** 1997 Jun; 77(3):731–45

[Mohs' method of micrographic surgery as treatment for recurrent basal cell carcinoma] van Baardwijk AA, et al. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):524–9 (Eng. Abstr.) **(Dut)**

[Two-stage excision of extensive cutaneous carcinoma of the face. A retrospective study of 80 patients] Arfi C, et al. **Ann Dermatol Venereol** 1995;122(11-12):764–8 (Eng. Abstr.) **(Fre)**

[Defect coverage with a bilobed flap with reference to special aspects regarding the nose] Umbricht RE, et al. **Handchir Mikrochir Plast Chir** 1996 Jul;28(4):210–4 (Eng. Abstr.) **(Ger)**

[Secondary wound healing with reference to anatomic subunits in operations of the mid-facial area] Skaria A, et al. **Hautarzt** 1997 Feb;48(2):110–2 (Eng. Abstr.) **(Ger)**

[Squamous cell carcinoma and basal cell carcinoma] Suzuki T, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):16–22 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Curettage and cryosurgery of epithelial skin cancer. Good 5-year results in the treatment of nose and ear cancer] Nordin P. **Lakartidningen** 1996 Sep 18;93(38):3241–3 (Eng. Abstr.) **(Swe)**

[Choices in the management of epithelial cancer of the skin] Skoog V. **Lakartidningen** 1996 Sep 18;93(38):3225 **(Swe)**

THERAPY

Cryotherapy of nonmelanoma skin cancer. August PJ. **Clin Dermatol** 1995 Nov-Dec;13(6):589–92 (14 ref.)

Comparison of treatment modalities for basal cell carcinoma. Rowe DE. **Clin Dermatol** 1995 Nov-Dec;13(6):617–20 (15 ref.)

[Treatment of basocellular carcinoma] Karadaglić D. **Vojnosanit Pregl** 1996 Mar-Apr;53(2):137–40 (20 ref.) **(Scr)**

ULTRASTRUCTURE

Morphometric study of nucleolar organiser regions in ameloblastoma and basal cell carcinoma. Rosa LE, et al. **Oral Oncol** 1997 May;33(3):209–14

VIROLOGY

Human herpesvirus 8 sequences are not detected in epithelial tumors from patients receiving transplants [letter] Lebbé C, et al. **Arch Dermatol** 1997 Jan;133(1):111

CARCINOMA, BASAL CELL, PIGMENTED see **CARCINOMA, BASAL CELL**

CARCINOMA, BASOSQUAMOUS

CHEMISTRY

Immunohistochemical study of primary and recurrent basal cell and metatypical carcinomas of the skin. Kazantseva IA, et al. **Am J Dermatopathol** 1996 Feb;18(1):35–42

The immunohistochemical characteristics of the basosquamous cell carcinoma. Jones MS, et al. **Dermatol Surg** 1997 Mar;23(3):181–4

DIAGNOSIS

Basaloid squamous cell carcinoma of the esophagus: diagnosis and prognosis. Sarbia M, et al. **Cancer** 1997 May 15; 79(10):1871–8

PATHOLOGY

Immunohistochemical study of primary and recurrent basal cell and metatypical carcinomas of the skin. Kazantseva IA, et al. **Am J Dermatopathol** 1996 Feb;18(1):35–42

Fine-needle aspiration biopsy diagnosis of primary bronchial basaloid-squamous carcinoma [letter] Mooney EE, et al. **Diagn Cytopathol** 1997 Feb;16(2):187–8

Basaloid-squamous carcinoma. A distinct histopathological entity. Singh ZN, et al. **Indian J Cancer** 1996 Jun; 33(2):86–91 (19 ref.)

Basaloid squamous cell carcinoma of the maxilla. Wedenberg C, et al. **Oral Oncol** 1997 Mar;33(2):141–4

[Basaloid squamous cell carcinoma of the larynx: report of a new case] Santamaría Mifsut R, et al. **Acta Otorrinolaringol Esp** 1996 May-Jun;47(3):243–5 (Eng. Abstr.) **(Spa)**

SECONDARY

Basaloid squamous cell carcinoma of the esophagus metastatic to the gingiva: a case report. Ide F, et al.

CARCINOMA, BASOSQUAMOUS

Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 May;83(5):584–7 (22 ref.)

CARCINOMA, BRONCHIAL see **CARCINOMA, BRONCHOGENIC**

CARCINOMA, BRONCHIOLAR see **ADENOCARCINOMA, BRONCHIOLO-ALVEOLAR**

CARCINOMA, BRONCHIOLO-ALVEOLAR see **ADENOCARCINOMA, BRONCHIOLO-ALVEOLAR**

CARCINOMA, BRONCHOGENIC

Lung cancer [editorial] Lillington GA, et al. **Curr Opin Pulm Med** 1997 Jul;3(4):243–6 (24 ref.)

Intrathoracic neoplasms other than bronchogenic carcinoma. Yoneda KY, et al. **Curr Opin Pulm Med** 1997 Jul; 3(4):257–64 (76 ref.)

Carcinoma of the bronchus in the Yorkshire region of England 1976–1990: trends since 1984. Connolly CK, et al. **Eur Respir J** 1997 Feb;10(2):397–403

Bronchogenic carcinoma in young adults. Bhattacharya K, et al. **J Indian Med Assoc** 1996 Jan;94(1):18–20

[Paraneoplastic nephrotic syndrome and bronchogenic carcinoma (letter; comment)] Navarro JF, et al. **Arch Bronconeumol** 1996 Nov;32(9):493. Comment on: Arch Bronconeumol 1996 Jan;32(1):52–3. **(Spa)**

BLOOD

Arachidonic acid activation of monocyte and neutrophil reactive oxygen in lung cancer patients undergoing pulmonary resection. Leaver HA, et al. **Biologicals** 1996 Dec;24(4):319–24

Analysis of the early postoperative serum carcinoembryonic antigen time-course as a prognostic tool for bronchogenic carcinoma. Yoshimasu T, et al. **Cancer** 1997 Apr 15; 79(8):1533–40

CHEMISTRY

Immunohistochemical and molecular evaluation of the mdm-2 gene product in bronchogenic carcinoma. Gorgoulis VG, et al. **Mod Pathol** 1996 May;9(5):544–54

[Prognostic value of flow cytometry in squamous cell bronchogenic cancer. A retrospective study of 61 cases] Jeanfaivre T, et al. **Bull Cancer** 1997 Jun;84(6):597–602 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Neurocardiogenic syncope and Prinzmetal's angina associated with bronchogenic carcinoma. Angelini P, et al. **Chest** 1997 Mar;111(3):819–22

Localized fibrous mesothelioma with bronchogenic carcinoma. Iwase A, et al. **Intern Med** 1996 Oct; 35(10):808–10

Occult lung cancer in patients with bullous emphysema. Venuta F, et al. **Thorax** 1997 Mar;52(3):289–90

Adrenal failure due to metastasis both to the hypothalamic-pituitary area and the adrenals. Trincado P, et al. **Tumori** 1996 Jul-Aug;82(4):401–4

[Malaria attack: a very late relapse due to Plasmodium vivax] Maslin J, et al. **Bull Soc Pathol Exot** 1997;90(1):25–6 (Eng. Abstr.) **(Fre)**

[Anorexia associated with bronchial cancer] Jeanfaivre T, et al. **Rev Mal Respir** 1997 Apr;14(2):113–7 (38 ref.) (Eng. Abstr.) **(Fre)**

[Long-term survival in patient with acquired immunodeficiency syndrome and adenocarcinoma of the lung] Pereira JR, et al. **Rev Assoc Med Bras** 1996 Oct-Dec; 42(4):258–60 (Eng. Abstr.) **(Por)**

[Platypnea and bronchogenic carcinoma (letter)] Medina A, et al. **Med Clin (Barc)** 1997 Apr 26;108(16):639 **(Spa)**

DIAGNOSIS

Experience with flexible fibreoptic bronchoscopy. Jayasundera C. **Ceylon Med J** 1996 Dec;41(4):131–4

Diagnostic tests for lung cancer. Edell ES. **Curr Opin Pulm Med** 1997 Jul;3(4):247–51 (24 ref.)

MR study of N2 disease in lung cancer: contrast-enhanced method using gadolinium-DTPA. Crisci R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):214–7

Comparison of imaging TNM [(i)TNM] and pathological TNM [pTNM] in staging of bronchogenic carcinoma. Gdeedo A, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):224–7

Exercise testing in the preoperative evaluation of patients with bronchogenic carcinoma. Richter Larsen K, et al. **Eur Respir J** 1997 Jul;10(7):1559–65

Unilateral orbital and bilateral ocular involvement in presumed metastatic bronchogenic carcinoma [letter] Gündüz K, et al. **Eye** 1996;10 (Pt 5):635–7

Amylase in bronchial washings as an aid to early diagnosis of bronchogenic carcinoma. Rao S. **J Assoc Physicians India** 1995 Jun;43(6):400

Bronchogenic carcinoma invasion of the chest wall: evaluation with dynamic cine MRI during breathing. Sakai S, et al. **J Comput Assist Tomogr** 1997 Jul-Aug; 21(4):595–600

Bronchogenic carcinoma mimicking paronychia and osteomyelitis in the great toe. Shepherd DM, et al. **J Foot Ankle Surg** 1997 Mar-Apr;36(2):115–9

Accuracy of computed tomography and magnetic resonance imaging in staging bronchogenic carcinoma. Manfredi R, et al. **MAGMA** 1996 Sep-Dec;4(3-4):257–62

Comparison of cytokeratin fragment 19 (CYFRA 21-1), tissue polypeptide antigen (TPA) and carcinoembryonic antigen (CEA) as tumour markers in bronchogenic carcinoma. Huang MS, et al. **Respir Med** 1997 Mar; 91(3):135–42

[Videothoracoscopy in the spreading evaluation of bronchogenic cancers] Santambrogio L, et al. **Cancer Radiother** 1997;1(2):178–80 (Eng. Abstr.) **(Fre)**

[Recommendations concerning the use of serial tumor markers in management of primary bronchial cancers. Society of French Pneumology. Synthesis and recommendations] **Rev Mal Respir** 1997 Apr;14 Suppl 3:S7–9 **(Fre)**

[Carcinoembryonic antigen] Blanchon F. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S30–1 (6 ref.) **(Fre)**

[Value of tumor markers for screening and diagnosis (except prognostic and surveillance values) in primary bronchial cancers] Grivaux M. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S15–9 (41 ref.) **(Fre)**

[Neuron specific enolase] Milleron B. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S36–7 (12 ref.) **(Fre)**

[CYFRA 21-1] Pujol JL. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S31–6 (32 ref.) **(Fre)**

[Value of serial tumor markers for the detection of recurrences] Quoix E. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S27–9 (32 ref.) **(Fre)**

[Which tumor markers should be used in primary bronchial cancers?] Schuller MP, et al. **Rev Mal Respir** 1997 Apr; 14 Suppl 3:S9–14 (29 ref.) **(Fre)**

[Value of serial tumor markers for determining the prognosis and predicting treatment response and survival] Souquet PJ. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S20–2 (23 ref.) **(Fre)**

[Bronchial carcinoma (lung cancer)] Häussinger K, et al. **Pneumologie** 1996 Sep;50 Suppl 2:599–603 (19 ref.) **(Ger)**

[Thoracoscopy: current diagnostic and therapeutic indications] Loddenkemper R, et al. **Pneumologie** 1996 Feb; 50(2):189–201 (130 ref.) **(Ger)**

[Obstructive jaundice as a presentation form of bronchogenic small cell carcinoma] Martín Parra JI, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):299–301 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Urinary excretion of ifosfamide, 4-hydroxyifosfamide, 3- and 2-dechloroethylifosfamide, mesna, and dimesna in patients on fractionated intravenous ifosfamide and concomitant mesna therapy. Kurowski V, et al. **Cancer Chemother Pharmacol** 1997;39(5):431–9

A phase II trial of ilmofosine in non-small cell bronchogenic carcinoma. Woolley PV, et al. **Invest New Drugs** 1996; 14(2):219–22

[Induction chemotherapy followed by concomitant combined radiotherapy and chemotherapy in stage III non-small cell bronchial carcinoma] Bouillet T, et al. **Cancer Radiother** 1997;1(2):121–31 (39 ref.) (Eng. Abstr.) **(Fre)**

[A combined radiochemotherapy trial for non-small cell lung cancers: initial results] Livartowski A, et al. **Cancer Radiother** 1997;1(2):170–3 (Eng. Abstr.) **(Fre)**

[Chemotherapy in elderly patients with bronchogenic cancers] Souquet PJ, et al. **Rev Mal Respir** 1996; 13(4):327–33 (55 ref.) (Eng. Abstr.) **(Fre)**

[Taxol in bronchial carcinoma] Gatzemeier U. **Med Klin** 1996 Dec 15;91 Suppl 2:1–6 (41 ref.) **(Ger)**

[Experiences with fluorescence diagnosis and photodynamic therapy in a multimodality therapy concept of operated, recurrent bronchial carcinoma] Freitag L, et al. **Pneumologie** 1996 Oct;50(10):693–9 (Eng. Abstr.) **(Ger)**

[Improved survival through simultaneous radiochemotherapy versus radiotherapy alone in stage III of non-small-cell bronchial carcinoma] Rübe C. **Strahlenther Onkol** 1997 Apr;173(4):239–40 **(Ger)**

EPIDEMIOLOGY

The molecular epidemiology of lung cancer. Spivack SD, et al. **Crit Rev Toxicol** 1997 Jul;27(4):319–65 (315 ref.)

Primary bronchogenic carcinoma in transplant recipients. Delcambre F, et al. **Transplant Proc** 1996 Oct;28(5):2884–5

[Molecular epidemiology and prevention of bronchopulmonary carcinoma] De Flora S. **Chir Ital** 1995; 47(3):1–12 (49 ref.) (Eng. Abstr.) **(Ita)**

ETIOLOGY

Primary bronchogenic carcinoma in recipients of heart transplants. Taniguchi S, et al. **Transpl Int** 1997;10(4):312–6

GENETICS

Class I major histocompatibility complex antigens and tumor ploidy in breast and bronchogenic carcinomas. Redondo M, et al. **Cancer Detect Prev** 1997;21(1):22–8

Cytogenetic and molecular genetic analysis of tumorigenic human bronchial epithelial cells induced by radon alpha particles. Weaver DA, et al. **Carcinogenesis** 1997 Jun; 18(6):1251–7

Expression of the candidate tumor suppressor gene nm23 in the bronchial system of patients with squamous cell lung cancer. Huwer H, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):206–9

Immunohistochemical and molecular evaluation of the mdm-2 gene product in bronchogenic carcinoma. Gorgoulis VG, et al. **Mod Pathol** 1996 May;9(5):544–54

IMMUNOLOGY

T-cell receptor biases and clonal proliferations in blood and pleural effusions of patients with lung cancer. Duncan SR, et al. **Hum Immunol** 1997 Mar;53(1):39–48

METABOLISM

Cell proliferation, cell loss and expression of bcl-2 and p53 in human pulmonary neoplasms. Kennedy MM, et al. **Br J Cancer** 1997;75(4):545–7

Class I major histocompatibility complex antigens and tumor ploidy in breast and bronchogenic carcinomas. Redondo M, et al. **Cancer Detect Prev** 1997;21(1):22–8

A molecular and immunohistochemical study of the MDM2 protein isoforms and p53 gene product in bronchogenic carcinoma. Gorgoulis VG, et al. **J Pathol** 1996 Oct; 180(2):129–37

Increased alveolar fluid clearance following thoracotomy: report of a case and results of an analysis. Sakuma T, et al. **Surg Today** 1997;27(8):762–5

MICROBIOLOGY

Bacterial colonization of distal airways in healthy subjects and chronic lung disease: a bronchoscopic study. Cabello H, et al. **Eur Respir J** 1997 May;10(5):1137–44

MORTALITY

Pulmonary resection for lung cancer in octogenarians. Pagni S, et al. **Ann Thorac Surg** 1997 Mar;63(3):785–9

Lymph node type as a prognostic factor for survival in T2 N1 M0 non-small cell lung carcinoma. van Velzen E, et al. **Ann Thorac Surg** 1997 May;63(5):1436–40

Long-term survival of patients with lung cancer from a defined geographical area before and after radiological screening. Hillerdal G. **Lung Cancer** 1996 Aug;15(1):21–30

[Evaluation of survival and prognostic factors of 2,000 broncho-pulmonary cancers registered during 10 years in a multidisciplinary oncology department] Moro D, et al. **Bull Cancer** 1997 Feb;84(2):155–61 (37 ref.) (Eng. Abstr.) **(Fre)**

PATHOLOGY

Lymph node type as a prognostic factor for survival in T2 N1 M0 non-small cell lung carcinoma. van Velzen E, et al. **Ann Thorac Surg** 1997 May;63(5):1436–40

Cell proliferation, cell loss and expression of bcl-2 and p53 in human pulmonary neoplasms. Kennedy MM, et al. **Br J Cancer** 1997;75(4):545–7

Is it possible to differentiate malignant mediastinal nodes from benign nodes by size? Reevaluation by CT, transesophageal echocardiography, and nodal specimen. Arita T, et al. **Chest** 1996 Oct;110(4):1004–8

Relevance of training in transbronchial fine-needle aspiration technique. Rodríguez de Castro F, et al. **Chest** 1997 Jan; 111(1):103–5

Effects of histamine and 5-hydroxytryptamine on the growth rate of xenografted human bronchogenic carcinomas. Sheehan PF, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):465–71

The value of parasternal mediastinoscopy in staging bronchial carcinoma. Barendregt WB, et al. **Eur J Cardiothorac Surg** 1995;9(11):655–8

Bronchogenic squamous cell carcinomas with invasion along alveolar walls. Nakanishi K, et al. **Histopathology** 1996 Oct; 29(4):363–8

[Diabetes insipidus revealing pituitary metastasis of bronchial carcinoma] Decanter C, et al. **Ann Endocrinol (Paris)** 1996; 57(5):411–7 (Eng. Abstr.) **(Fre)**

[Lymph node documentation and lymphadenectomy in bronchial carcinomas. Results of a survey in Germany] Passlick B, et al. **Chirurg** 1997 Jun;68(6):601–5 (Eng. Abstr.) **(Ger)**

[Intrapulmonary tumor cell spread and intraoperative pleural lavage as prognostic factors in bronchial carcinoma?] Buhr J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:798–804 (Eng. Abstr.) **(Ger)**

[Expression of plakoglobin in bronchial carcinomas: incidence and significance for disease outcome] Passlick B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:810–3 (Eng. Abstr.) **(Ger)**

[Lymph- and haemangiosis carcinomatosa--an important prognostic factor in non-small-cell bronchial carcinoma (NSCLC)] Schultheis KH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:775–8 (Eng. Abstr.) **(Ger)**

[Intrapulmonary tumor cell dissemination and intraoperative pleural lavage as prognostic factors in bronchial carcinoma] Buhr J, et al. **Zentralbl Chir** 1996;121(2):90–5 (Eng. Abstr.) **(Ger)**

[The importance of mediastinoscopy for accurate lymph node staging] Kelm C, et al. **Zentralbl Chir** 1996;121(2):84–6 (Eng. Abstr.) **(Ger)**

[Lymphadenectomy in bronchial carcinoma: facts and fiction] Schildberg FW, et al. **Zentralbl Chir** 1996;121(2):96–101

(21 ref.) (Eng. Abstr.) **(Ger)**

[Bronchogenic carcinoma located in the aortic window] Saitoh Y, et al. **Kyobu Geka** 1997 Jan;50(1):59–62 (Eng. Abstr.) **(Jpn)**

[Pre-surgical diagnosis of primary bronchogenic carcinoma (editorial; comment] Ramírez J, et al. **Med Clin (Barc)** 1997 Jan 25;108(3):103–4. Comment on: Med Clin (Barc) 1997 Jan 25;108(3):81–6. **(Spa)**

[Reliability of the presurgical anatomopathologic diagnosis in primary bronchogenic carcinoma (see comments)] Soler JJ, et al. **Med Clin (Barc)** 1997 Jan 25;108(3):81–6 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Jan 25;108(3):103–4. **(Spa)**

PHYSIOPATHOLOGY

Lung function and perfusion after bronchial and pulmonary arterial sleeve resection. Khargi K, et al. **Eur J Cardiothorac Surg** 1996;10(9):717–21

PSYCHOLOGY

[Do psychological factors modify survival of cancer patients? II: Results of an empirical study with bronchial carcinoma patients] Faller H, et al. **Psychother Psychosom Med Psychol** 1997 Jun;47(6):206–18 (Eng. Abstr.) **(Ger)**

[Hypothesis of the correlation of personality characteristics and the clinical history of bronchogenic cancer] Beltrami V, et al. **Chir Ital** 1995;47(3):48–51 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Pulmonary parenchymal manifestations surrounding small peripheral masses: pathologic correlation with chest radiographs and diagnostic value. Yang X, et al. **Acad Radiol** 1996 Apr;3(4):308–12

Lung nodule conspicuity using unsharp mask filters with storage–phosphor–based computed radiography. Li F, et al. **Acta Radiol** 1997 Jan;38(1):99–103

The changing presentation of lung adenocarcinoma [letter; comment] Jeanfaivre T, et al. **Chest** 1997 Aug;112(2):573–4 . Comment on: Chest 1996 Dec;110(6):1474–9.

The changing radiographic presentation of bronchogenic carcinoma with reference to cell types [see comments] Quinn D, et al. **Chest** 1996 Dec;110(6):1474–9. Comment in: Chest 1997 Aug;112(2):573–4.

Case in point. Metastatic bronchogenic carcinoma. Stepanek J, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):10

Factors affecting the radiologic appearance of peripheral bronchogenic carcinomas. Sone S, et al. **J Thorac Imaging** 1997 Jul;12(3):159–72 (41 ref.)

Hilar and mediastinal invasion of bronchogenic carcinoma: evaluation by thin–section electron–beam computed tomography. Takahashi M, et al. **J Thorac Imaging** 1997 Jul;12(3):195–9

Long–term survival of patients with lung cancer from a defined geographical area before and after radiological screening. Hillerdal G. **Lung Cancer** 1996 Aug;15(1):21–30

[Spiral computed tomography in the diagnosis and staging of bronchopulmonary carcinoma] Cittadini G Jr, et al. **Chir Ital** 1995;47(3):13–7 (24 ref.) (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Evaluation of adrenal masses in patients with bronchogenic carcinoma using 18F–fluorodeoxyglucose positron emission tomography [see comments] Erasmus JJ, et al. **AJR Am J Roentgenol** 1997 May;168(5):1357–60. Comment in: AJR Am J Roentgenol 1997 May;168(5):1361–2.

Positron emission tomography, bronchogenic carcinoma, and the adrenals [comment] Lamki LM. **AJR Am J Roentgenol** 1997 May;168(5):1361–2. Comment on: AJR Am J Roentgenol 1997 May;168(5):1357–60.

A clinical evaluation of FDG–PET to assess the response in radiation therapy for bronchogenic carcinoma. Ichiya Y, et al. **Ann Nucl Med** 1996 May;10(2):193–200

Hypertrophic osteoarthropathy in staging skeletal scintigraphy for lung cancer. Morgan B, et al. **Clin Radiol** 1996 Oct;51(10):694–7

Characterization of pulmonary nodules and mediastinal staging of bronchogenic carcinoma with F–18 fluorodeoxyglucose positron emission tomography. Hagberg RC, et al. **Eur J Cardiothorac Surg** 1997 Jul; 12(1):92–7

RADIOTHERAPY

A clinical evaluation of FDG–PET to assess the response in radiation therapy for bronchogenic carcinoma. Ichiya Y, et al. **Ann Nucl Med** 1996 May;10(2):193–200

The role of brachytherapy in the treatment and control of central bronchial carcinoma. Macha HN, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):325–8 (23 ref.)

Acute changes in peak expiratory flow rate following palliative radiotherapy for bronchial carcinoma. Hatton MQ, et al. **Radiother Oncol** 1997 Jul;44(1):31–4

[Postoperative radiotherapy in non–small cell lung cancer. Apropos of a series of 374 cases] Baillet F, et al. **Cancer Radiother** 1997;1(2):137–42 (23 ref.) (Eng. Abstr.) **(Fre)**

[Discussion on the role of radiotherapy in non–small cell lung cancer apropos of 137 non–metastatic cases] Dessard–Diana B, et al. **Cancer Radiother** 1997;1(2):154–8 (10 ref.) (Eng. Abstr.) **(Fre)**

[Radiotherapy in locoregional treatment of inoperable non–small cell lung cancer: results from a series of 381 patients] Durdux C, et al. **Cancer Radiother** 1997;1(2):132–6 (19 ref.) (Eng. Abstr.) **(Fre)**

[A combined radiochemotherapy trial for non–small cell lung cancers: initial results] Livartowski A, et al. **Cancer Radiother** 1997;1(2):170–3 (Eng. Abstr.) **(Fre)**

[Radiation tolerance of patients after pneumonectomy for bronchial cancer: role of pulmonary function tests] Mornex F, et al. **Cancer Radiother** 1997;1(2):181–5 (Eng. Abstr.) **(Fre)**

[Outcome of CHART radiotherapy in squamous cell carcinoma of the head and neck and in non–small cell bronchial carcinoma] Baumann M, et al. **Strahlenther Onkol** 1997 Jun;173(6):341–3 **(Ger)**

[Adjuvant whole–brain irradiation in small–cell bronchial carcinoma] Kiricuta IC, et al. **Strahlenther Onkol** 1996 Oct; 172(10):553–8 (33 ref.) (Eng. Abstr.) **(Ger)**

[Improved survival through simultaneous radiochemotherapy versus radiotherapy alone in stage III of non–small–cell bronchial carcinoma] Rübe C. **Strahlenther Onkol** 1997 Apr;173(4):239–40 **(Ger)**

[Does prophylactic whole–brain irradiation in small–cell bronchial carcinoma at the "limited disease" stage improve overall survival?] Rübe C. **Strahlenther Onkol** 1996 Mar; 172(3):176–7 **(Ger)**

[Pneumonitis after radiotherapy of bronchial carcinoma: incidence and influencing factors] Schraube P, et al. **Strahlenther Onkol** 1997 Jul;173(7):369–78 (Eng. Abstr.) **(Ger)**

SECONDARY

Evaluation of adrenal masses in patients with bronchogenic carcinoma using 18F–fluorodeoxyglucose positron emission tomography [see comments] Erasmus JJ, et al. **AJR Am J Roentgenol** 1997 May;168(5):1357–60. Comment in: AJR Am J Roentgenol 1997 May;168(5):1361–2.

Positron emission tomography, bronchogenic carcinoma, and the adrenals [comment] Lamki LM. **AJR Am J Roentgenol** 1997 May;168(5):1361–2. Comment on: AJR Am J Roentgenol 1997 May;168(5):1357–60.

Unilateral orbital and bilateral ocular involvement in presumed metastatic bronchogenic carcinoma [letter] Gündüz K, et al. **Eye** 1996;10 (Pt 5):635–7

Bronchogenic carcinoma mimicking paronychia and osteomyelitis in the great toe. Shepherd DM, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):115–9

Metastases to pineal gland as first symptom of bronchogenic carcinoma: report on an case. Borghi L, et al. **Pathologica** 1996 Apr;88(2):137–8

[Microcytic bronchogenic carcinoma with extrahepatic obstructive icterus] Villena V, et al. **Arch Bronconeumol** 1997 Feb;33(2):99–100 (Eng. Abstr.) **(Spa)**

SURGERY

Early complications in surgical treatment of lung cancer: a prospective, multicenter study. Grupo Cooperativo de Carcinoma Broncogénico de la Sociedad Española de Neumología y Cirugía Torácica. Duque JL, et al. **Ann Thorac Surg** 1997 Apr;63(4):944–50

Pulmonary resection for lung cancer in octogenarians. Pagni S, et al. **Ann Thorac Surg** 1997 Mar;63(3):785–9

Cancer resection on the residual lung after pneumonectomy for bronchogenic carcinoma [see comments] Spaggiari L, et al. **Ann Thorac Surg** 1996 Dec;62(6):1598–602. Comment in: Ann Thorac Surg 1997 Aug;64(2):583–4.

Prediction of post–operative cardiopulmonary function using perfusion scintigraphy in patients with bronchogenic carcinoma. Larsen KR, et al. **Clin Physiol** 1997 May; 17(3):257–67

The value of cervical mediastinoscopy combined with anterior mediastinotomy in the peroperative evaluation of bronchogenic carcinoma of the left upper lobe. Jiao X, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):450–4

Lung function and perfusion after bronchial and pulmonary arterial sleeve resection. Khargi K, et al. **Eur J Cardiothorac Surg** 1996;10(9):717–21

Association of bronchial and pharyngo–laryngeal malignancies. A reappraisal. Massard G, et al. **Eur J Cardiothorac Surg** 1996;10(6):397–402

Morbidity, mortality, and survival after bronchoplastic procedures for lung cancer. Rea F, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):201–5

Quality of life after surgical therapy of bronchogenic carcinoma. Zieren HU, et al. **Eur J Cardiothorac Surg** 1996; 10(4):233–7

Thoracoscopic limited resection of bronchogenic carcinoma in patients over the age of 80. Ishida T, et al. **Int Surg** 1996 Jul–Sep;81(3):237–40

Continued experience with thoracoscopic major pulmonary resection. Walker WS, et al. **Int Surg** 1996 Jul–Sep; 81(3):255–8

Results of surgery for bronchogenic carcinoma located in the aortic window. Saitoh Y, et al. **Lung Cancer** 1997 Aug; 18(1):47–56

Carinal resection for bronchogenic cancer. Dartevelle P, et al. **Semin Thorac Cardiovasc Surg** 1996 Oct;8(4):414–25 (28 ref.)

Bronchoscopic evaluation of bronchial healing after carinal reconstruction. Akamine S, et al. **Surg Today** 1996; 26(6):407–12

[Place of radical surgery in the treatment of non–small cell lung cancer. Apropos of 969 cases] Riquet M, et al. **Cancer Radiother** 1997;1(2):165–9 (Eng. Abstr.) **(Fre)**

[Liberation of neopterin after lung resecting interventions with and without bronchial carcinoma] Gebhard F, et al. **Chirurg** 1996 Jul;67(7):725–9 (Eng. Abstr.) **(Ger)**

[Principles and results of systematic lymph node dissection in surgically treated bronchial carcinoma] Schirren J, et al. **Chirurg** 1996 Sep;67(9):869–76 (35 ref.) (Eng. Abstr.) **(Ger)**

[Radical lung surgery interventions with special reference to lymphadenectomy] Friedel G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:785–9 (Eng. Abstr.) **(Ger)**

[Is surgical therapy of bronchial carcinoma in advanced age justified?] Padberg W, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:847–50 (Eng. Abstr.) **(Ger)**

[Limits of surgery in patients with apparently localized bronchial carcinoma (pT1–3, pN0, M0)] Passlick B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:779–84 (Eng. Abstr.) **(Ger)**

[Radical surgery and lymph node dissection in bronchial carcinoma] Schirren J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:790–7 (8 ref.) (Eng. Abstr.) **(Ger)**

[Quality of life after pneumonectomy for bronchial carcinoma] Fiedler R, et al. **Zentralbl Chir** 1997; 122(5):327–31 (Eng. Abstr.) **(Ger)**

[Lymphadenectomy in surgery of bronchial carcinoma] Gellert K, et al. **Zentralbl Chir** 1996;121(2):87–9 (Eng. Abstr.) **(Ger)**

[Bronchogenic carcinoma located in the aortic window] Saitoh Y, et al. **Kyobu Geka** 1997 Jan;50(1):59–62 (Eng. Abstr.) **(Jpn)**

THERAPY

Management of carcinoma of the superior pulmonary sulcus. Johnson DE, et al. **Oncology (Huntingt)** 1997 Jun; 11(6):781–5; discussion 785–6 (27 ref.)

An Airway Wallstent for the treatment of tracheobronchial malignancies [see comments] Bolliger CT, et al. **Thorax** 1996 Nov;51(11):1127–9. Comment in: Thorax 1997 Jul;52(7):664–5.

[New therapeutic strategies and current research in inoperable locally advanced non small–cell lung cancers (stage IIIB)] Le Cesne A, et al. **Bull Cancer** 1997 Apr; 84(4):413–9 (45 ref.) (Eng. Abstr.) **(Fre)**

[Optimization of combined radiotherapy and chemotherapy in treatment of non–small cell lung carcinoma] Bretel JJ, et al. **Cancer Radiother** 1997;1(2):148–53 (Eng. Abstr.) **(Fre)**

[Concomitant radiochemotherapy in inoperable non–small cell lung cancer] Hennequin C, et al. **Cancer Radiother** 1997;1(2):143–7 (Eng. Abstr.) **(Fre)**

[Concomitant radiochemotherapy for locally advanced bronchial cancers: current results and prospects] Reboul F, et al. **Cancer Radiother** 1997;1(2):113–20 (Eng. Abstr.) **(Fre)**

[Recommendations concerning the use of serial tumor markers in management of primary bronchial cancers. Society of French Pneumology. Synthesis and recommendations] **Rev Mal Respir** 1997 Apr;14 Suppl 3:S7–9 **(Fre)**

[Cellular growth factors in the treatment of bronchogenic cancers] Pujol JL, et al. **Rev Mal Respir** 1996;13(4):335–8 (17 ref.) **(Fre)**

[Value of tumor markers in surveillance of primary bronchial cancers and to evaluate therapy] Sculier JP. **Rev Mal Respir** 1997 Apr;14 Suppl 3:S23–6 (29 ref.) **(Fre)**

[With reference to later intra–/extrathoracic recurrence manifestations also after so–called radical operation: when are (neo–)adjuvant measures indicated?] Drings P. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:805–9 (20 ref.) (Eng. Abstr.) **(Ger)**

[Current status of interdisciplinary therapy of stage III non–small–cell bronchial carcinoma] Manegold C, et al. **Pneumologie** 1996 Oct;50(10):735–41 (52 ref.) **(Ger)**

[Occlusion of an esophagobronchial fistula by implantation of a Montgomery esophageal and a dynamic tracheal stent after failure of conventional endoprosthesis] Alexiou C, et al. **Z Gastroenterol** 1997 Apr;35(4):277–83 (Eng. Abstr.) **(Ger)**

[Preliminary results of the induction treatment in cases of NSCLC (stage III A and B)] Beltrami V. **Chir Ital** 1995; 47(3):39–42 (Eng. Abstr.) **(Ita)**

VIROLOGY

[Point mutation of p53 and detection of human papillomavirus DNA in bronchogenic carcinoma] Zhang X, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):673–5 (Eng. Abstr.) **(Chi)**

CARCINOMA, COLLOID see **ADENOCARCINOMA, MUCINOUS**

CARCINOMA, CRIBRIFORM see **ADENOCARCINOMA**

CARCINOMA, DUCTAL see **CARCINOMA, INFILTRATING DUCT**

CARCINOMA, EHRLICH TUMOR

Mapping of G2/M-phase prevalences of chaperon-encoding transcripts by means of a sensitive differential hybridization approach. Dittmar G, et al. **Cell Biol Int** 1997 Jun; 21(6):383-91

Oxygen-dependent-regulation of Ehrlich ascites tumor cell respiration by nitric oxide. Inai Y, et al. **Cell Struct Funct** 1996 Apr;21(2):151-7

DRUG THERAPY

Synthesis and in vivo antitumor activity of new heterocyclic derivatives of the 1,3,4-thiadiazolium-2-aminide class. Grynberg N, et al. **Anticancer Drugs** 1997 Jan;8(1):88-91

Antineoplastic activities of 2,3,4-chloro-substituted beta-alkylaminopropiophenone derivatives in CF1 mice and in murine and human tumor cells. Huang Y, et al. **Anticancer Drugs** 1996 Jul;7(5):613-20

Antitumor effect of carboplatin combined with radiation on tumors in mice. Aratani Y, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2535-8

Mechanism of hyperthermic potentiation of cisplatin action in cisplatin-sensitive and -resistant tumour cells. Hettinga JV, et al. **Br J Cancer** 1997;75(12):1735-43

Immunotherapy of BALB/c mice bearing Ehrlich ascites tumor with vitamin D-binding protein-derived macrophage activating factor. Yamamoto N, et al. **Cancer Res** 1997 Jun 1;57(11):2187-92

Development of differential cytotoxic compounds containing nitrosourea and benzothiazine nucleus. Nyati MK, et al. **In Vivo** 1997 Jan-Feb;11(1):95-9

Reduced toxicity and enhanced antitumor efficacy of betacyclodextrin plumbagin inclusion complex in mice bearing Ehrlich ascites carcinoma. Singh UV, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):171-5

Liposome longevity and stability in circulation: effects on the in vivo delivery to tumors and therapeutic efficacy of encapsulated anthracyclines. Gabizon A, et al. **J Drug Target** 1996;3(5):391-8

The activity of doxorubicin niosomes against an ovarian cancer cell line and three in vivo mouse tumour models. Uchegbu IF, et al. **J Drug Target** 1996;3(5):399-409

Antitumour activity of mitoxantrone-loaded chitosan microspheres against Ehrlich ascites carcinoma. Jameela SR, et al. **J Pharm Pharmacol** 1996 Jul;48(7):685-8

Evaluation of phthalmustine, a new anticancer compound. II. Tumor inhibitory effect in murine Ehrlich ascites carcinoma and sarcoma-180. Bhattacharya S, et al. **Neoplasma** 1996;43(3):209-13

ENZYMOLOGY

Nicotinamide methyltransferase activity and cell-death in the liver of the mouse bearing Ehrlich ascites tumor. Fujimura S, et al. **Adv Exp Med Biol** 1996;398:507-11

Characterization of the purified cytosolic thymidine kinase from murine ehrlich ascites tumor: interconversion of two different relative molecular weight forms. Tsukifuji-Nabeya R, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):379-88

Submitochondrial localization and membrane topography of Ehrlich ascitic tumour cell glutaminase. Aledo JC, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):173-84

Analysis of phosphofructokinase subunits and isozymes in ascites tumor cells and its original tissue, murine mammary gland. Sánchez-Martínez C, et al. **FEBS Lett** 1997 Jun 2; 409(1):86-90

Endogenous induction of transient oxidant-imbalances in Ehrlich cells as a possible trigger to fast tumor fluid accumulation. Schwartsburd PM, et al. **Med Oncol** 1995 Dec;12(4):203-7

[Effect of Ca2+ ions on the activity of pyruvate dehydrogenase complex in ascites Ehrlich carcinoma cells] Dolgacheva LP, et al. **Biokhimiia** 1996 Aug;61(8):1498-504 (Eng. Abstr.) **(Rus)**

GENETICS

[Molecular mechanisms of biological action of low magnetic fields. I. Stability of chromatin from Ehrlich ascite carcinoma and mouse brain cells to the treatment of DNase 1 under combined action of low constant and alternating low-frequency magnetic fields adjusted to the cyclotron resonance of ions of polar amino acids] Novikov VV, et al. **Biofizika** 1997 May-Jun;42(3):733-7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Early tumor effect on splenic Th lymphocytes in mice. Segura JA, et al. **FEBS Lett** 1997 Sep 1;414(1):1-6

Effect of cyclophosphamide on tumor cell sensitivity to the action of immunological effectors. Culo F, et al. **In Vivo** 1995 Sep-Oct;9(5):439-46

METABOLISM

Protective effect of pantothenic acid and related compounds against permeabilization of Ehrlich ascites tumour cells by digitonin. Slyshenkov VS, et al. **Acta Biochim Pol** 1996; 43(2):407-10

Factors of Ehrlich Ascites Tumor resistance to oxidative stress. Hristov P, et al. **Acta Physiol Pharmacol Bulg** 1995; 21(3):49-55

Non-transferrin-bound iron and tumor cells. Anghileri LJ, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2529-33

Influence of antimalarials chloroquine, quinine, primaquine and mepacrine on the evolution of Ehrlich ascites tumour. Castelli M, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):2673-5

The effect of lethal doses of radiation in vivo on the lipid microviscosity of tumor nuclear membranes. Mal'tseva EL, et al. **Appl Radiat Isot** 1996 Nov-Dec;47(11-12):1683-7

Occlusion of K+ in the Na+/K+/2Cl- cotransporter of Ehrlich ascites tumor cells. Krarup T, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):97-108

A protein inhibitor of hepatic drug metabolizing enzymes from Ehrlich ascites cells. Kamat JP. **Cancer Lett** 1997 Feb 26;113(1-2):1-8

Role of ribonucleotide reductase and deoxynucleotide pools in the oxygen-dependent control of DNA replication in Ehrlich ascites cells. Brischwein K, et al. **Eur J Biochem** 1997 Mar 1;244(2):286-93

Microtubule-active drugs suppress the closure of the permeability transition pore in tumour mitochondria. Evtodienko YV, et al. **FEBS Lett** 1996 Sep 9;393(1):86-8

Noxious effects of oxygen reactive species on energy-coupling processes in Ehrlich ascites tumor mitochondria and the protection by pantothenic acid. Slyshenkov VS, et al. **Free Radic Biol Med** 1996; 20(6):793-800

Metabolism of proteins and glycoproteins in tumour bearing mice treated with Aeromonas L-asparaginase. Benny PJ, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):527-30

In vivo NMR spectroscopic studies on the bioenergetic changes induced by metabolic modulators in Ehrlich ascites tumour cells. Sharma RK, et al. **Indian J Biochem Biophys** 1996 Apr;33(2):122-30

Ehrlich cell plasma membrane redox system is modulated through signal transduction pathways involving cGMP and Ca2+ as second messengers. del Castillo-Olivares A, et al. **J Bioenerg Biomembr** 1995 Dec;27(6):605-11

On the role of calcium in the regulatory volume decrease (RVD) response in Ehrlich mouse ascites tumor cells. Jorgensen NK, et al. **J Membr Biol** 1997 Jun 1; 157(3):281-99

Leukotriene D4-induced Ca2+ mobilization in Ehrlich ascites tumor cells. Pedersen S, et al. **J Membr Biol** 1997 Jan 1;155(1):61-73

Shrinkage-induced activation of the Na+/H+ exchanger in Ehrlich ascites tumor cells: mechanisms involved in the activation and a role for the exchanger in cell volume regulation. Pedersen SF, et al. **J Membr Biol** 1996 Jan; 149(2):141-59

Interaction of aldehydes with glyoxalase I and the status of several aldehyde metabolizing enzymes of Ehrlich ascites carcinoma cells. Biswas S, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):9-16

Tumour effect on arginine/ornithine metabolic relationship in hypertrophic mouse kidney. Manteuffel-Cymborowska M, et al. **Mol Cell Biochem** 1997 Mar;168(1-2):51-7

Selective modulation of non-protein sulfhydryl levels in Ehrlich ascites tumor bearing mice. Włodek LB, et al. **Neoplasma** 1996;43(4):259-63

The short DNA sequences in the cytoplasm of Ehrlich ascites tumor cells are tightly associated with proteins. Hegger R, et al. **Physiol Chem Phys Med NMR** 1995;27(4):321-8

In vitro inhibitory effect of chitosan and its degradation products on energy metabolism in Ehrlich ascites tumour cells (EAT). Gumińska M, et al. **Pol J Pharmacol** 1996 Sep-Oct;48(5):495-501

[Increase in access to SH-groups of membrane proteins in Ehrlich ascites carcinoma cells upon purinergic receptor activation] Rybina VV, et al. **Biofizika** 1997 Mar-Apr; 42(2):455-8 (Eng. Abstr.) **(Rus)**

[The effect of topoisomerase II inhibitor, vepesid, on binding of doxorubicin with DNA in tumor cells sensitive to anthracycline] Bogush TA, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):87-90 **(Rus)**

[In vivo 31P-NMR spectroscopic study of changes in phosphate metabolism in Ehrlich carcinoma after treatment with hydralazine and hyperthermia] Semenova NA, et al. **Dokl Akad Nauk** 1996 Nov;351(3):410-2 **(Rus)**

PATHOLOGY

Glutathione and the rate of cellular proliferation determine tumour cell sensitivity to tumour necrosis factor in vivo. Obrador E, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):183-9

Substance P does not modify mononuclear cell migration into Ehrlich tumor mass. Bonamin LV, et al. **Braz J Med Biol Res** 1996 Mar;29(3):359-62

Inhibition of the proliferation of Ehrlich ascites tumor cells by hydrostatic pressure. Yamaguchi T, et al. **Cancer Biochem Biophys** 1997 Jun;15(4):257-61

On the origin of heterogeneity of lipofuscin fluorophores and their possible interrelations. Schwartsburd PM. **Gerontology** 1995;41 Suppl 2:29-37

Combined effects of epirubicin and tamoxifen on the cell-cycle phases in estrogen-receptor-negative Ehrlich ascites tumor cells. Aydiner A, et al. **J Cancer Res Clin Oncol** 1997;123(2):113-7

Micronucleated cells during the growth of the Ehrlich ascites tumour on spontaneous and by titanocenedichloride-induced conditions. Tarillion P, et al. **Mutat Res** 1997 Mar 17;389(2-3):213-8

Changes in membrane potential induced by local anesthetic bupivacaine on mitochondria within Ehrlich ascites tumor cells. Pulselli R, et al. **Oncol Res** 1996;8(7-8):267-71

DNA cell cycle analysis of K562 and Ehrlich tumor cells by flow cytometry. Radu DL, et al. **Roum Arch Microbiol Immunol** 1996 Jul-Sep;55(3):193-203

[Cooperative effects in the action of weak magnetic fields on the tumor process in vivo] Novikov VV, et al. **Biofizika** 1996 Jul-Aug;41(4):934-8 (Eng. Abstr.) **(Rus)**

[Dependence of tumor metastasis on the pH of tissues in the tumor-host] Abakarova OR. **Biull Eksp Biol Med** 1995 Dec;120(12):613-5 **(Rus)**

[Reduced antitumoral and suppressor activity of nonadherent bone marrow cells during culturing in a mixture with supernatant of Ehrlich tumor] Bel'skiĭ IuP, et al. **Biull Eksp Biol Med** 1994 May;117(5):514-7 **(Rus)**

[Specificity of morphological changes and DNA degradation in the Ehrlich ascite carcinoma cells exposed to various damaging agents] Mosin AF, et al. **Tsitologiia** 1997; 39(2-3):209-17 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Ehrlich ascites tumor cells produce a transforming growth factor-beta (TGFbeta)-like activity but lack receptors with TGFbeta-binding capacity. Elexpuru A, et al. **Mol Cell Biochem** 1997 May;170(1-2):153-62

Protective effect of adenine on DNA synthesis in irradiated Ehrlich ascites tumor cells. Mlejnek P, et al. **Radiat Res** 1997 Apr;147(4):477-83

PREVENTION & CONTROL

Effect of haloperidol on the development of the solid Ehrlich tumor in mice. Kleeb SR, et al. **Life Sci** 1997; 60(4-5):PL69-74

RADIONUCLIDE IMAGING

A kit for the instant preparation of 99Tcm-citrate for tumour and inflammation scintigraphy. Chauhan UP, et al. **Nucl Med Commun** 1996 Nov;17(11):979-85

RADIOTHERAPY

Antitumor effect of carboplatin combined with radiation on tumors in mice. Aratani Y, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2535-8

THERAPY

Thermosensitivity and thermotolerance in the adriamycin-resistant strain of Ehrlich ascites tumor cells. Asaumi J, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):2569-73

ULTRASTRUCTURE

Isolation of nucleoli from ELT cells: a quick new method that preserves morphological integrity and high transcriptional activity. Vandelaer M, et al. **Exp Cell Res** 1996 Oct 10;228(1):125-31

[Ultrastructure and proliferation of Ehrlich carcinoma cells exposed to a continuous infrared laser] Baĭbekov IM, et al. **Biull Eksp Biol Med** 1996 May;121(5):585-8 **(Rus)**

URINE

[Increased excretion of a fluorescing substance in the urine of Ehrlich ascites tumor-bearing mice] Gantner G, et al. **Mikrochim Acta** 1977;(1-2 Pt 2):33-8 **(Ger)**

CARCINOMA, EMBRYONAL

BLOOD

CA19-9: a possible serum marker for embryonal carcinoma. Tsuruta T, et al. **Urol Int** 1997;58(1):20-4

CHEMISTRY

DNA methylation patterns in tumors derived from F9 cells resemble methylation at the blastula stage. Yeivin A, et al. **FEBS Lett** 1996 Oct 14;395(1):11-6

COMPLICATIONS

Hyperthyroidism from an embryonal carcinoma. Gama R, et al. **J R Soc Med** 1997 Aug;90(8):446-7

[Doppler ultrasonography diagnosis of right ventricular outflow tract obstruction caused by mediastinal tumor and its reversibility after treatment] Roldán I, et al. **Rev Esp Cardiol** 1996 Jun;49(6):477-9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

[Pure embryonal carcinoma of the ovary. A review of the literature apropos of a case] Hulewicz G, et al. **Bull Cancer** 1996 Sep;83(9):718-24 (40 ref.) (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Antitumor activity of paclitaxel after failure of high-dose chemotherapy in a patient with late relapse of a non-seminomatous germ cell tumor. Gerl A, et al. **Anticancer Drugs** 1996 Aug;7(6):716-8

Derivation and characterization of retinoid-resistant human

embryonal carcinoma cells. Moasser MM, et al. **Differentiation** 1996 Jul;60(4):251–7

Pneumothorax following induction chemotherapy for a germ cell tumour [letter] Laurencet FM, et al. **Eur J Cancer** 1997 Jan;33(1):169–70

Induction of trk receptors by retinoic acid in a human embryonal carcinoma cell line. Cheung WM, et al. **Neuroreport** 1996 Apr 26;7(6):1204–8

[Two cases of relapse or refractory germ cell tumor who had been treated with combination chemotherapy of cisplatin and carboplatin] Kiyama Y, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1989–92 (Eng. Abstr.) **(Jpn)**

[A case of embryonal carcinoma successfully treated by neoadjuvant chemotherapy: report of a case] Shibata S, et al. **Kyobu Geka** 1996 Oct;49(11):963–5 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Identification of an interleukin–1 beta converting enzyme–like activity that increases upon treatment of P19 cells with retinoic acid as the proteasome. Kobayashi T, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):699–704

GENETICS

Germ cell tumours in a brother and sister. Akyüz C, et al. **Acta Paediatr** 1997 Jun;86(6):668–9

Cytogenetics of pediatric central nervous system tumors. Sainati L, et al. **Cancer Genet Cytogenet** 1996 Oct 1; 91(1):13–27

Mouse embryonal carcinoma cell–somatic cell hybrids as experimental tools for the study of cell differentiation and X chromosome activity. Takagi N. **Cancer Genet Cytogenet** 1997 Jan;93(1):48–55

Isolation of retinoic acid–repressed genes from P19 embryonal carcinoma cells. Nakshatri H, et al. **Gene** 1996 Sep 26;174(1):79–84

Chromosomal abnormalities in sperm from testicular cancer patients before and after chemotherapy. Martin RH, et al. **Hum Genet** 1997 Feb;99(2):214–8

A survey of genes expressed in mouse embryonal carcinoma F9 cells: characterization of expressed sequence tags matching no known genes. Nomura M, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):129–47

Identification of candidate genes induced by retinoic acid in embryonal carcinoma cells. Cheung WM, et al. **J Neurochem** 1997 May;68(5):1882–8

X–chromosome inactivation in hybrid embryonic carcinoma cells upon differentiation. Park JG, et al. **Mol Cells** 1997 Feb 28;7(1):115–9

Familial testicular cancer and developmental anomalies. Ondruš D, et al. **Neoplasma** 1997;44(1):59–61

Constitutive expression of the Wilms tumor suppressor gene WT1 in F9 embryonal carcinoma cells induces apoptotic cell death in response to retinoic acid. Kudoh T, et al. **Oncogene** 1996 Oct 3;13(7):1431–9

[The use of B1–PCR method for studying the genomic polymorphism involved in malignant growth] Aleksandrova SA, et al. **Vopr Onkol** 1996;42(6):48–52 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

HLA class I antigens are expressed by Sertoli cells of intratubular germ cell neoplasia. Braendstrup O. **APMIS** 1996 Jul–Aug;104(7–8):579–82

Involvement of NK1+ CD4– CD8– alphabeta T cells and endogenous IL–4 in non–MHC–restricted rejection of embryonal carcinoma in genetically resistant mice. Nakamura E, et al. **J Immunol** 1997 Jun 1;158(11):5338–48

METABOLISM

Regulation of intracellular Ca2+ in response to muscarinic and glutamate receptor agonists during the differentiation of NTERA2 human embryonal carcinoma cells into neurons. Squires PE, et al. **Eur J Neurosci** 1996 Apr; 8(4):783–93

The amyloid beta–protein of Alzheimer's disease increases acetylcholinesterase expression by increasing intracellular calcium in embryonal carcinoma P19 cells. Sberna G, et al. **J Neurochem** 1997 Sep;69(3):1177–84

Expression of CD30 and CD30 ligand in cultured cell lines from human germ–cell tumors. Pera MF, et al. **Lab Invest** 1997 Apr;76(4):497–504

[Proteins from murine embryonal and germ cells, interacting in vitro with Oct3/4] Tomilin AN, et al. **Dokl Akad Nauk** 1997 Mar;353(2):267–9 **(Rus)**

PATHOLOGY

Induction of mouse embryonal carcinoma cell differentiation and activation of the retinoic acid receptor beta 2 promoter by 1,25–dihydroxyvitamin D3. Müschen M, et al. **Biol Chem** 1996 Nov;377(11):703–10

Differential regulation of the Wilms' tumor gene, WT1, during differentiation of embryonal carcinoma and embryonic stem cells. Scharnhorst V, et al. **Cell Growth Differ** 1997 Feb;8(2):133–43

Multiple intracranial mixed germ cell tumors. Kumabe T, et al. **Childs Nerv Syst** 1997 Mar;13(3):178–81

Specific induction of apoptosis in P19 embryonal carcinoma cells by retinoic acid and BMP2 or BMP4. Glozak MA, et al. **Dev Biol** 1996 Nov 1;179(2):458–70

Embryonal adenoma of the kidney: a report of two cases. Zafar N, et al. **Diagn Cytopathol** 1997 Jan;16(1):42–6

Alternative signaling mechanism of leukemia inhibitory factor responsiveness in a differentiating embryonal carcinoma cell. Takeda T, et al. **Endocrinology** 1997 Jul; 138(7):2689–96

Regulation of intracellular Ca2+ in response to muscarinic and glutamate receptor agonists during the differentiation of NTERA2 human embryonal carcinoma cells into neurons. Squires PE, et al. **Eur J Neurosci** 1996 Apr; 8(4):783–93

Modulation of alpha 6/beta 1 integrin expression during differentiation of F9 murine embryonal carcinoma cells to parietal endoderm. Morini M, et al. **Exp Cell Res** 1997 May 1;232(2):304–12

Role of Csk in neural differentiation of the embryonic carcinoma cell line P19. Takayama Y, et al. **FEBS Lett** 1997 Apr 7;406(1–2):11–6

Endodermal sinus tumor and embryonal carcinoma of the ovary in a 53–year–old woman. Kammerer–Doak D, et al. **Gynecol Oncol** 1996 Oct;63(1):133–7

CD30 expression in seminoma. Hittmair A, et al. **Hum Pathol** 1996 Nov;27(11):1166–71

c–Jun amino–terminal kinase is regulated by Galpha12/Galpha13 and obligate for differentiation of P19 embryonal carcinoma cells by retinoic acid. Jho EH, et al. **J Biol Chem** 1997 Sep 26;272(39):24468–74

Galpha12 and Galpha13 mediate differentiation of P19 mouse embryonal carcinoma cells in response to retinoic acid. Jho EH, et al. **J Biol Chem** 1997 Sep 26;272(39):24461–7

Establishment of three monoclonal antibodies specific for prespermatogonia and intratubular malignant germ cells in humans. Hiraoka N, et al. **Lab Invest** 1997 Mar;76(3):427–38

Altered sensitivity of posttranslationally modified microtubules to methylmercury in differentiating embryonal carcinoma–derived neurons. Graff RD, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):215–24

[Gene program regulating differentiation of embryonal carcinoma cells] Hamada H. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1018–21 (8 ref.) **(Jpn)**

RADIONUCLIDE IMAGING

FDG–PET evaluation of retroperitoneal metastases of testicular cancer before and after chemotherapy. Reinhardt MJ, et al. **J Nucl Med** 1997 Jan;38(1):99–101

SECONDARY

Testicular embryonal cell carcinoma metastasizing to the site of a previously excised cerebellar haemangioblastoma. Chacko AG, et al. **Br J Neurosurg** 1996 Apr;10(2):197–200

FDG–PET evaluation of retroperitoneal metastases of testicular cancer before and after chemotherapy. Reinhardt MJ, et al. **J Nucl Med** 1997 Jan;38(1):99–101

[Embryonic carcinoma associated to teratoma, in a Xikrin indian] Vieira Filho JP, et al. **Rev Assoc Med Bras** 1996 Apr–Jun;42(2):123–6 (Eng. Abstr.) **(Por)**

[Burned–out testicular tumor] Sanz Chinesta S, et al. **Actas Urol Esp** 1996 Jun;20(6):586–90 (Eng. Abstr.) **(Spa)**

SURGERY

Neuroendoscopic management of pineal region tumours. Ferrer E, et al. **Acta Neurochir (Wien)** 1997;139(1):12–20; discussion 20–1

Conservative surgery and quality of life in a young patient with synchronous bilateral embryonal carcinoma. Mearini E, et al. **Eur Urol** 1996;29(1):119–21 (16 ref.)

Extragonadal germ cell tumor followed by metachronous testicular tumor. A case report. Hayashi T, et al. **Urol Int** 1996;57(3):194–6

THERAPY

Did socioeconomic factors influence clinical decisions? Avery JK. **Tenn Med** 1996 Dec;89(12):440–1

[Neuroectodermal differentiation of embryonal carcinoma of the testis] Eichler F, et al. **Bull Cancer** 1997 Jun;84(6):630–3 (Eng. Abstr.) **(Fre)**

[Metallothionein expression as a marker of therapeutic sensitivity in the early stages of testicular cancer] Eid H, et al. **Orv Hetil** 1997 Jan 19;138(3):135–9 (28 ref.) (Eng. Abstr.) **(Hun)**

[Case of embryonal cell carcinoma treated with massive dosages of therapeutic agents together with transplantation of autologous peripheral stem cells] Gokuma T, et al. **Nippon Naika Gakkai Zasshi** 1997 Feb 10;86(2):307–9 **(Jpn)**

CARCINOMA, ENDOMETRIOID

[Endometrioid adenocarcinoma of the prostate: a case report] Makiyama K, et al. **Hinyokika Kiyo** 1997 Feb;43(2):153–6 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

EGFR and steroid receptors in ovarian carcinoma: comparison with prognostic parameters and outcome of patients. Fischer–Colbrie J, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):613–9

COMPLICATIONS

Ovarian carcinoma and digital ischaemia. Maurice PD. **Clin Exp Dermatol** 1996 Sep;21(5):381–2

DIAGNOSIS

Microglandular adenocarcinoma of the endometrium: a form of mucinous adenocarcinoma that may be confused with microglandular hyperplasia of the cervix. Zaloudek C, et al. **Int J Gynecol Pathol** 1997 Jan;16(1):52–9

Cytokeratin immunostaining in differentiating primary ovarian carcinoma from metastatic colonic adenocarcinoma. Loy TS, et al. **Mod Pathol** 1996 Nov; 9(11):1040–4

[Coexistence of endometrioid ovarian tumor and squamous cell carcinoma of the cervix] Pityński K, et al. **Ginekol Pol** 1996 Dec;67(12):629–31 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Phase I and pharmacologic study of paclitaxel administered weekly in patients with relapsed ovarian cancer. Fennelly D, et al. **J Clin Oncol** 1997 Jan;15(1):187–92

[Factors of resistance of ovarian cancer to combined chemotherapy with the use of platinum derivatives] Bliumenberg AG, et al. **Biull Eksp Biol Med** 1996 Dec; 122(12):651–4 **(Rus)**

ENZYMOLOGY

Aromatase cytochrome P450 gene expression in endometrial carcinoma. Sasano H, et al. **Br J Cancer** 1996 Nov; 74(10):1541–4

ETHNOLOGY

Impact of ethnicity on the incidence of high–risk endometrial carcinoma. Plaxe SC, et al. **Gynecol Oncol** 1997 Apr; 65(1):8–12

ETIOLOGY

Endometrial carcinoma after endometrial resection for menorrhagia. Iqbal PK, et al. **Br J Obstet Gynaecol** 1997 Sep;104(9):1097–8

GENETICS

Evidence for divergence of DNA copy number changes in serous, mucinous and endometrioid ovarian carcinomas. Tapper J, et al. **Br J Cancer** 1997;75(12):1782–7

Involvement of chromosome 6 in endometrial cancer. Tibiletti MG, et al. **Br J Cancer** 1997;75(12):1831–5

K–ras point mutations in endometrial carcinoma: effect on outcome is dependent on age of patient. Ito K, et al. **Gynecol Oncol** 1996 Nov;63(2):238–46

Molecular analysis of synchronous uterine and ovarian endometrioid tumors. Emmert–Buck MR, et al. **Int J Gynecol Pathol** 1997 Apr;16(2):143–8

METABOLISM

bcl–2 expression in endometrial hyperplasia and carcinoma. Niemann TH, et al. **Gynecol Oncol** 1996 Dec;63(3):318–22

MORTALITY

The combination of p53 and age predict cancer specific death in advanced stage (FIGO Ic–IV) of endometrial carcinoma of endometrioid type. An immunohistochemical examination of growth fraction: Ki–67, MIB–1 and PC10; suppressor oncogene protein: p53; oncogene protein: p185 and age, hormone treatment, stage, and histologic grade. Nielsen AL, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec;70(1):79–85

Papillary serous and clear cell type lead to poor prognosis of endometrial carcinoma in black women. Matthews RP, et al. **Gynecol Oncol** 1997 May;65(2):206–12

PATHOLOGY

Endometrioid endometrial adenocarcinoma with psammoma bodies. Parkash V, et al. **Am J Surg Pathol** 1997 Apr; 21(4):399–406

Distribution pattern of basal cells detected by cytokeratin 34 beta E12 in primary prostatic duct adenocarcinoma. Samaratunga H, et al. **Am J Surg Pathol** 1997 Apr; 21(4):435–40

Endometroid carcinoma arising with a scar endometriosis. Gücer F, et al. **Eur J Gynaecol Oncol** 1997;18(1):42–3

Endometrioid carcinoma of the fallopian tube: a clinicopathologic analysis of 26 cases. Navani SS, et al. **Gynecol Oncol** 1996 Dec;63(3):371–8

Ductal (endometrioid) adenocarcinoma of the prostate: a clinicopathological study of 16 cases. Millar EK, et al. **Histopathology** 1996 Jul;29(1):11–9

Establishment of eighteen clones of Ishikawa cells. Nishida M, et al. **Hum Cell** 1996 Jun;9(2):109–16

Endometrioid ciliated–cell tumors of the ovary: a report of five cases [published erratum appears in Int J Gynecol Pathol 1996 Oct;15(4):369] Eichhorn JH, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):248–56

Diagnostic and biological determinants in undifferentiated and poorly differentiated ovarian carcinomas. Canzonieri V, et al. **Pathologica** 1995 Oct;87(5):492–7

CARCINOMA, ENDOMETRIOID

PHYSIOPATHOLOGY

Ductal (endometrioid) adenocarcinoma of the prostate: a clinicopathological study of 16 cases. Millar EK, et al. **Histopathology** 1996 Jul;29(1):11–9

RADIOGRAPHY

WART revisited: the treatment of epithelial ovarian cancer by whole abdominal radiotherapy. Hruby G, et al. **Australas Radiol** 1997 Aug;41(3):276–80

Endometrioid cystadenocarcinoma of the ovary. De Breuck Y, et al. **J Belge Radiol** 1996 Aug;79(4):165–6

RADIOTHERAPY

Prognostic factors in endometrial carcinoma: risk groups and adjuvant radiotherapy. García-Doménech RV, et al. **Eur J Gynaecol Oncol** 1997;18(3):164–70

SECONDARY

Obstructive jaundice caused by ampullary metastases of an endometrioid adenocarcinoma. Silva R, et al. **Gastrointest Endosc** 1996 Aug;44(2):195–7

SURGERY

[An enlarged ovary during pregnancy; perform surgery or not?] van Buuren WJ, et al. **Ned Tijdschr Geneeskd** 1996 Oct 19;140(42):2095–8 (Eng. Abstr.) **(Dut)**

THERAPY

Treatment of node-positive endometrial cancer with complete node dissection, chemotherapy and radiation therapy. Onda T, et al. **Br J Cancer** 1997;75(12):1836–41

ULTRASONOGRAPHY

Ruptured malignant ovarian tumor mimicking ruptured ectopic pregnancy. Riley GM, et al. **J Ultrasound Med** 1996 Dec;15(12):871–3

ULTRASTRUCTURE

Changes in the ultrastructure of human cells related to certain biological responses under hyperthermic culture conditions. Iwagami Y. **Hum Cell** 1996 Dec;9(4):353–66

CARCINOMA, EPIDERMOID see **CARCINOMA, SQUAMOUS CELL**

CARCINOMA, GIANT CELL

DIAGNOSIS

Subungual giant cell tumor of the tendon sheath. Abimelec P, et al. **Cutis** 1996 Oct;58(4):273–5 (10 ref.)

GENETICS

Pleomorphic (giant and spindle cell) carcinoma is genetically distinct from adenocarcinoma and squamous cell carcinoma by K-ras-2 and p53 analysis. Przygodzki RM, et al. **Am J Clin Pathol** 1996 Oct;106(4):487–92

PATHOLOGY

"Osteoclastic" giant cell carcinoma of the pancreas. Report of a case with aspiration cytology. Mullick SS, et al. **Acta Cytol** 1996 Sep-Oct;40(5):975–9 (23 ref.)

Giant polypoid basal cell carcinoma. McElroy J, et al. **Cutis** 1996 Oct;58(4):289–92 (25 ref.)

Aspiration cytodiagnosis of a rare carcinoma of breast with bizarre malignant giant cells. Gupta RK. **Diagn Cytopathol** 1996 Jul;15(1):66–9

Spindle and giant cell carcinoma of the colon. Serio G, et al. **Histopathology** 1997 Apr;30(4):383–5

[Exceptional variety of endometrial cancer] Aguilar G U, et al. **Rev Chil Obstet Ginecol** 1995;60(3):219–21 (Eng. Abstr.) **(Spa)**

SECRETION

[Are lung choriocarcinoma and giant cell carcinoma producing chorionic gonadotropins just variants of the same neoplasm?] Słodkowska J, et al. **Pneumonol Alergol Pol** 1996;64(11–12):798–804 (Eng. Abstr.) **(Pol)**

CARCINOMA, GRANULAR CELL see **ADENOCARCINOMA**

CARCINOMA, HEPATOCELLULAR

Trans-activation of cellular genes by hepatitis B virus proteins: a possible mechanism of hepatocarcinogenesis. Caselmann WH. **Adv Virus Res** 1996;47:253–302 (323 ref.)

Increased risk of hepatocellular carcinoma in patients infected with hepatitis C genotype 1b. Zein NN, et al. **Am J Gastroenterol** 1996 Dec;91(12):2560–2

Hepatocellular carcinoma. Lau WY, et al. **Br J Hosp Med** 1997 Feb 5–18;57(3):101–4 (20 ref.)

Changes of phosphatidylcholine-specific phospholipase C in hepatocarcinogenesis and in the proliferation and differentiation of rat liver cancer cells. Wu X, et al. **Cell Biol Int** 1997 Jun;21(6):375–81

Small hepatocellular carcinoma: past, present and future. Tang Z. **Chin Med J (Engl)** 1996 Jan;109(1):21–4 (31 ref.)

Fibrolamellar hepatocellular carcinoma. Case reports and a review of the literature. Saab S, et al. **Dig Dis Sci** 1996 Oct;41(10):1981–5 (40 ref.)

Hepatocellular carcinoma. Manns MP, et al. **Digestion** 1997; 58 Suppl 1:69–75 (111 ref.)

Pathogenesis of primary hepatocellular carcinoma. Curry GW, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):850–5 (120 ref.)

The medical management of hepatocellular carcinoma (HCC) in Japan: a review with implications for HCC seen in the west. Ichida T, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1575–83 (37 ref.)

Hepatocellular carcinoma. Johnson RC. **Hepatogastroenterology** 1997 Jan-Feb;44(13):307–12 (43 ref.)

Hepatitis C and hepatocellular carcinoma. Di Bisceglie AM. **Hepatology** 1997 Sep;26(3 Suppl 1):34S–38S (47 ref.)

Cell lines from non-neoplastic liver and hepatocellular carcinoma tissue from a single patient [letter] Noguchi M, et al. **In Vitro Cell Dev Biol Anim** 1996 Mar;32(3):135–7

Acute hepatic injury after discontinuation of chemotherapy in a patient with non-Hodgkin's lymphoma and chronic hepatitis B virus infection. Haanen JB, et al. **Neth J Med** 1996 Dec;49(6):239–43

Recent developments in screening, diagnosis and surgical treatment of hepatocellular carcinoma. IJzermans JN, et al. **Scand J Gastroenterol Suppl** 1997;223:50–4 (45 ref.)

BLOOD

A case of hepatocellular carcinoma with marked hyperfibrinogenemia. Amemiya N, et al. **Acta Haematol** 1997;97(4):236–8

Serum selenium concentration in patients with liver cirrhosis and hepatocellular carcinoma. Buljevac M, et al. **Acta Med Croatica** 1996;50(1):11–4

High plasma concentrations of nitrite/nitrate in patients with hepatocellular carcinoma. Moriyama A, et al. **Am J Gastroenterol** 1997 Sep;92(9):1520–3

Thyroxine-binding globulin and thyroid hormones after resection of hepatocellular carcinoma. Nagasue N, et al. **Am J Gastroenterol** 1997 Jul;92(7):1187–9

Treatment of hypervascular small hepatocellular carcinoma with ultrasound-guided percutaneous acetic acid injection: comparison with segmental transcatheter arterial embolization. Ohnishi K, et al. **Am J Gastroenterol** 1996 Dec;91(12):2574–9

Implications of serum basic fibroblast growth factor levels in chronic liver diseases and hepatocellular carcinoma. Hsu PI, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2803–9

Mechanism of PAP I gene induction during hepatocarcinogenesis: clinical implications. Dusetti NJ, et al. **Br J Cancer** 1996 Dec;74(11):1767–75

Clinical evaluation of urinary transforming growth factor-beta1 and serum alpha-fetoprotein as tumour markers of hepatocellular carcinoma. Tsai JF, et al. **Br J Cancer** 1997;75(10):1460–6

Semiquantification of circulating hepatocellular carcinoma cells by reverse transcriptase polymerase chain reaction. Wong IH, et al. **Br J Cancer** 1997;76(5):628–33

Intercellular adhesion molecule-1 release from human hepatocellular carcinoma. Hyodo I, et al. **Cancer Detect Prev** 1996;20(4):308–15

Evidence for increased somatic cell mutations in patients with hepatocellular carcinoma. Okada S, et al. **Carcinogenesis** 1997 Feb;18(2):445–9

Lipoprotein (a) serum levels in patients with hepatocarcinoma. Basili S, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):53–60

Serum carbohydrate-deficient transferrin in patients with nonalcoholic liver disease and with hepatocellular carcinoma. Murawaki Y, et al. **Clin Chim Acta** 1997 Mar 18;259(1–2):97–108

Oestradiol and testosterone blood levels in patients with viral cirrhosis and hepatocellular carcinoma. Pignata S, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):283–6

Prognostic significance of Lens culinaris agglutinin A-reactive alpha-fetoprotein in small hepatocellular carcinomas. Yamashita F, et al. **Gastroenterology** 1996 Oct; 111(4):996–1001

The low positive rate of serum alpha-fetoprotein levels in hepatitis C virus antibody-positive patients with hepatocellular carcinoma. Furui J, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):445–9

Circulating intercellular adhesion molecule-1 in patients with hepatocellular carcinoma before and after hepatic resection. Taketomi A, et al. **Hepatogastroenterology** 1997 Mar-Apr; 44(14):477–83

Hematogenous spreading of hepatocellular carcinoma cells: possible participation in recurrence in the liver. Funaki NO, et al. **Hepatology** 1997 Mar;25(3):564–8

Elevated plasma levels of matrix metalloproteinase-9 (92-kd type IV collagenase/gelatinase B) in hepatocellular carcinoma. Hayasaka A, et al. **Hepatology** 1996 Nov; 24(5):1058–62

Lack of specificity of albumin-mRNA-positive cells as a marker of circulating hepatoma cells. Müller C, et al. **Hepatology** 1997 Apr;25(4):896–9

Spontaneous drastic reduction of alpha-fetoprotein in hepatocellular carcinoma. Phadke AY, et al. **Indian J Gastroenterol** 1996 Jul;15(3):111

Serum CA 125 as a marker of hepatocellular carcinoma. Lopez JB, et al. **Int J Biol Markers** 1996 Jul-Sep; 11(3):178–82

Prolonged bleeding time: a new clinical manifestation of hepatocellular carcinoma? Chu CJ, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):563–8

Serum markers for fibrosis and plasma transforming growth factor-beta 1 in patients with hepatocellular carcinoma in comparison with patients with liver cirrhosis. Murawaki Y, et al. **J Gastroenterol Hepatol** 1996 May;11(5):443–50

Microheterogeneity of serum transferrin in the diagnosis of hepatocellular carcinoma. Suzuki Y, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):358–65

Hepatocyte growth factor and acute phase proteins in patients with chronic liver diseases. Shiota G, et al. **J Med** 1995;26(5–6):295–308

Significance of alpha-fetoprotein levels for detection of early recurrence of hepatocellular carcinoma after hepatic resection. Shirabe K, et al. **J Surg Oncol** 1997 Feb; 64(2):143–6

Disposition of epirubicin after intraarterial administration in Lipiodol to patients with hepatocellular carcinoma. Dodds HM, et al. **Ther Drug Monit** 1996 Oct;18(5):537–43

Abnormally high level of antithrombin in a case with hepatocellular carcinoma. Iguchi K, et al. **Thromb Res** 1996 Oct 15;84(2):137–41

Serum alpha-fetoprotein concentrations in urban and rural Southern African blacks with hepatocellular carcinoma. Kew MC, et al. **Trop Gastroenterol** 1995 Oct-Dec; 16(4):11–5

[Low prevalence of ant-hepatitis c virus antibodies in hepatocellular carcinoma in Senegal] Ka MM, et al. **Ann Gastroenterol Hepatol (Paris)** 1996 Nov-Dec; 31(6):329–32 (Eng. Abstr.) **(Fre)**

[Erythropoietin in hepatocellular carcinoma] Malaguarnera M, et al. **Bull Cancer** 1996 Dec;83(12):977–80 (Eng. Abstr.) **(Fre)**

BLOOD SUPPLY

Visualization of tumor vessels in hepatocellular carcinoma. Power Doppler compared with color Doppler and angiography. Hosoki T, et al. **Acta Radiol** 1997 May; 38(3):422–7

The vascular architecture of renal cell carcinoma in fine-needle aspiration biopsies. An aid in its distinction from hepatocellular carcinoma. Weir M, et al. **Cancer** 1997 Feb 25;81(1):45–50

Intrahepatic metastases in hepatocellular carcinoma: the role of the portal vein as an efferent vessel. Mitsunobu M, et al. **Clin Exp Metastasis** 1996 Nov;14(6):520–9

New color Doppler technique for detecting turbulent tumor blood flow: a possible aid to hepatocellular carcinoma diagnosis. Yasuhara K, et al. **J Clin Ultrasound** 1997 May; 25(4):183–8

Significance of tumor vascularity as a predictor of long-term prognosis in patients with small hepatocellular carcinoma treated by percutaneous ethanol injection therapy. Toyoda H, et al. **J Hepatol** 1997 May;26(5):1055–62

Evaluation of blood flow signal in small hepatic nodules by color Doppler ultrasonography. Furuse J, et al. **Jpn J Clin Oncol** 1996 Oct;26(5):335–40

Enhanced CD34 expression of sinusoid-like vascular endothelial cells in hepatocellular carcinoma. Cui S, et al. **Pathol Int** 1996 Oct;46(10):751–6

Hypoxia-inducible factor-1 modulates gene expression in solid tumors and influences both angiogenesis and tumor growth. Maxwell PH, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8104–9

CHEMICALLY INDUCED

Primary hepatocellular carcinoma in workers exposed to vinyl chloride: a report of two cases. Saurin JC, et al. **Cancer** 1997 May 1;79(9):1671–7

Cyproterone acetate: is it hepato- or genotoxic? Rabe T, et al. **Drug Saf** 1996 Jan;14(1):25–38 (60 ref.)

Tamoxifen and secondary tumours. An update. Wilking N, et al. **Drug Saf** 1997 Feb;16(2):104–17 (151 ref.)

Hepatocellular carcinoma p53 G > T transversions at codon 249: the fingerprint of aflatoxin exposure? Lasky T, et al. **Environ Health Perspect** 1997 Apr;105(4):392–7 (48 ref.)

Malignant hepatic tumours associated with previous exposure to Thorotrast: four cases. Lee FI, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1121–4 (22 ref.)

Rifampicin and isoniazid increase acetaminophen and isoniazid cytotoxicity in human HepG2 hepatoma cells. Nicod L, et al. **Hum Exp Toxicol** 1997 Jan;16(1):28–34

Gene transfer and therapy with adenoviral vector in rats with diethylnitrosamine-induced hepatocellular carcinoma. Qian C, et al. **Hum Gene Ther** 1997 Feb 10;8(3):349–58

Role of oral contraceptives in the growth of a multilobular adenoma associated with a hepatocellular carcinoma in a young woman. Perret AG, et al. **J Hepatol** 1996 Dec; 25(6):976–9

Hepatocellular carcinoma in long-term oral contraceptive use. Fiel MI, et al. **Liver** 1996 Dec;16(6):372–6

Mutations of the p53 tumor suppressor gene and ras oncogenes in aflatoxin hepatocarcinogenesis. Shen HM, et al. **Mutat Res** 1996 Oct;366(1):23–44 (167 ref.)

Epidemiology of human aflatoxin exposures and their relationship to liver cancer. Groopman JD, et al. **Prog Clin Biol Res** 1996;395:211–22

Rapid growth of hepatocellular carcinoma after or during interferon treatment of chronic hepatitis C: report of three cases. Onitsuka A, et al. **Surg Today** 1996;26(2):126–30
[A case of hepatocellular carcinoma related with exposure to vinyl chloride monomers] Makita O, et al.
Nippon Shokakibyo Gakkai Zasshi 1997 Mar;94(3):215–9 **(Jpn)**

CHEMISTRY

p53 immunoreaction in hepatocellular carcinoma and its relationship to etiologic factors. A fine needle aspiration study. Ojanguren I, et al. **Acta Cytol** 1996 Nov–Dec; 40(6):1148–53
Characterization of normal and malignant human hepatocytes by Raman microspectroscopy [published erratum appears in Cancer Lett 1997 May 19;115(2):263] Hawi SR, et al. **Cancer Lett** 1996 Dec 20;110(1–2):35–40
Hepsin, a cell surface serine protease identified in hepatoma cells, is overexpressed in ovarian cancer. Tanimoto H, et al. **Cancer Res** 1997 Jul 15;57(14):2884–7
Differential expression of a cDNA clone in human liver versus hepatic cancer—highly homologous to aryl–dialkyl–phosphatase. Wang KK, et al. **Cell Res** 1997 Jun;7(1):79–90
Collagen type III and type IV detection in and around human hepatocellular carcinoma. Gulubova MV.
Gen Diagn Pathol 1997 Feb;142(3–4):155–63
Localization of thrombospondin in hepatocellular carcinoma. Hayashi K, et al. **Hepatology** 1997 Mar;25(3):569–74
Reduced p21(WAF1/CIP1) expression and p53 mutation in hepatocellular carcinomas. Hui AM, et al. **Hepatology** 1997 Mar;25(3):575–9
Immunohistochemical studies on endothelial cell phenotype in hepatocellular carcinoma. Nakamura S, et al.
Hepatology 1997 Aug;26(2):407–15
Hepatic tocopherol content in primary hepatocellular carcinoma and liver metastases. Rocchi E, et al.
Hepatology 1997 Jul;26(1):67–72
Immunohistochemical staining of hepatocellular carcinoma with monoclonal antibody against inhibin. McCluggage WG, et al. **Histopathology** 1997 Jun;30(6):518–22
Correlation of repressed transcription of alpha–tocopherol transfer protein with serum alpha–tocopherol during hepatocarcinogenesis. Wu CG, et al. **Int J Cancer** 1997 May 16;71(4):686–90
Alpha–smooth muscle actin–positive stromal cells in cholangiocarcinomas, hepatocellular carcinomas and metastatic liver carcinomas. Terada T, et al. **J Hepatol** 1996 Jun;24(6):706–12
Measurement of lactate levels in serum and bile using proton nuclear magnetic resonance in patients with hepatobiliary diseases: its utility in detection of malignancies. Nishijima T, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):13–7
Copper concentration in hyperintense hepatocellular carcinomas of Long–Evans cinnamon rats on T1–weighted images. Nakakoshi T, et al. **Magn Reson Imaging** 1997; 15(6):689–91
Growth kinetic study of human hepatocellular carcinoma using proliferating cell nuclear antigen and Lewis Y antigen: their correlation with transforming growth factor–alpha and beta 1. Yamaguchi M, et al. **Oncology** 1997 May–Jun;54(3):245–51
Immunohistochemical expression of p53 protein and proliferating cell nuclear antigen in hepatocellular carcinoma. Nakopoulou L, et al. **Pathol Res Pract** 1995 Dec;191(12):1208–13

CLASSIFICATION

Classification of hepatocellular carcinoma according to hepatocellular and biliary differentiation markers. Clinical and biological implications. Wu PC, et al. **Am J Pathol** 1996 Oct;149(4):1167–75

COMPLICATIONS

Benign and malignant portal vein thrombosis: differentiation by CT characteristics. Tublin ME, et al.
AJR Am J Roentgenol 1997 Mar;168(3):719–23
A prospective study on hepatocellular carcinoma in liver cirrhosis: respective roles of alcohol and hepatitis C virus infection. Miyakawa H, et al. **Alcohol Alcohol** 1994;29 Suppl 1:75–9
Occurrence of hepatocellular carcinoma in a case of hereditary coproporphyria. Andant C, et al.
Am J Gastroenterol 1997 Aug;92(8):1389–90
Hepatocolic fistula and lower GI bleeding in hepatoma. Berkelhammer C, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2625–6
Dermatomyositis, hepatocarcinoma, and hepatitis C: comment on the article by Weidensaul et al [letter] Gomez A, et al. **Arthritis Rheum** 1997 Feb;40(2):394–5
Symptomatic porphyria secondary to hepatocellular carcinoma. Ochiai T, et al. **Br J Dermatol** 1997 Jan; 136(1):129–31
Arteriovenous shunting in hepatocellular carcinoma: its prevalence and clinical significance. Ngan H, et al.
Clin Radiol 1997 Jan;52(1):36–40
Transjugular intrahepatic portasystemic stent shunt in the treatment of variceal bleeding in hepatocellular cancer. Serafini FM, et al. **Dig Dis Sci** 1997 Jan;42(1):59–65
Ruptured hepatocellular carcinoma: an important cause of spontaneous haemoperitoneum in Italy. Vivarelli M, et al.
Eur J Surg 1995 Dec;161(12):881–6
Paraneoplastic hypoglycaemia treated with somatostatin analogue SMS 201–995. Frizelle FA, et al.
Eur J Surg Oncol 1996 Oct;22(5):546–7
Childhood hepatocellular tumors in FAP [letter] Cetta F, et al. **Gastroenterology** 1997 Sep;113(3):1051–2
Efficacy of prophylactic sclerotherapy in patients with hepatocellular carcinoma and varices negative for the red color sign. Miyoshi H, et al. **Gastrointest Endosc** 1997 Jun; 45(6):498–502
A comparison of chemoembolization with conventional chemotherapy and symptomatic treatment in cirrhotic patients with hepatocellular carcinoma. Bayraktar Y, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):681–7
A case of hepatocellular carcinoma in HIV–infected patient. Tanaka T, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):1067–72
Survival after liver transplantation in cirrhotic patients with and without hepatocellular carcinoma: a comparative study. Figueras J, et al. **Hepatology** 1997 Jun;25(6):1485–9
Type IIIb glycogen storage disease associated with end–stage cirrhosis and hepatocellular carcinoma. The Liver Transplant Group. Haagsma EB, et al. **Hepatology** 1997 Mar;25(3):537–40
Hepatoma cast obstructing common bile duct: not always a terminal event [letter] Contractor QQ, et al.
Indian J Gastroenterol 1997 Jul;16(3):121
Hepatitis–C–virus infection and cancer [letter] Ferri C, et al. **Int J Cancer** 1997 Jun 11;71(6):1113–5
Ruptured hepatoma presenting with peritonitis and acute lactic acidosis. Kelly J, et al. **Int J Clin Pract** 1997 Jun; 51(4):258–9
Acquired perforating dermatosis associated with recurrent hepatocellular carcinoma. Lee YS, et al. **Int J Dermatol** 1996 Oct;35(10):743–5
Chronic inflammatory demyelinating polyneuropathy accompanied by hepatocellular carcinoma. Sugai F, et al. **Intern Med** 1997 Jan;36(1):53–5
Frequent loss in chromosome 8p loci in liver cirrhosis accompanying hepatocellular carcinoma. Kishimoto Y, et al. **J Cancer Res Clin Oncol** 1996;122(10):585–9
Endoscopic management of a bronchobiliary fistula. Khandelwal M, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):125–7
Case report: gastrointestinal bleeding from a hepatocellular carcinoma invading the transverse colon. Hashimoto M, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):765–7
Case report: multiple cancers: hepatocellular carcinoma and adenocarcinomas of the common bile duct and the gall–bladder in a woman with primary biliary cirrhosis. Imada J, et al. **J Gastroenterol Hepatol** 1996 Jun; 11(6):546–50
Case Report: haemothorax due to hepatocellular carcinoma rupture successfully controlled by transcatheter arterial embolization. Masumoto A, et al.
J Gastroenterol Hepatol 1997 Feb;12(2):156–8
Hepatocellular carcinoma having progressive dyspnea as clinical presentation. Shuangshoti S. **J Med Assoc Thai** 1996 Nov;79(11):744–8
Mandibular metastatic hepatocellular carcinoma: a case involving severe postbiopsy hemorrhage. Ashar A, et al.
J Oral Maxillofac Surg 1997 Jun;55(6):547–52 (36 ref.)
Intersegmental attenuation difference on CT caused by partial Budd–Chiari syndrome secondary to hepatocellular carcinoma: report of two cases. Takayasu K, et al.
Jpn J Clin Oncol 1997 Jun;27(3):185–8
Portal vein thrombosis in association with factor V Leiden mutation in a patient with hepatocellular carcinoma. Gürgey A, et al. **Med Pediatr Oncol** 1997 Sep;29(3):224–5
Treatment of small hepatocellular carcinoma associated with cirrhosis by percutaneous ethanol injection. A trial with a comparison group. Orlando A, et al.
Scand J Gastroenterol 1997 Jun;32(6):598–603
Efficacy of endoscopic variceal ligation for bleeding esophageal varices in patients with tumor thrombus of the portal vein trunk (Vp3) associated with hepatocellular carcinoma. Kokubu S, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–139–S6–142
Obstructive jaundice secondary to hepatocellular carcinoma. Lau WY, et al. **Surg Oncol** 1995;4(6):303–8
High malignancy of hepatocellular carcinoma in alcoholic patients with hepatitis C virus. Kubo S, et al. **Surgery** 1997 Apr;121(4):425–9
A case of microhepatoma associated with schistosomiasis japonica diagnosed by enhanced ultrasonography after hepatic intraarterial injection of carbon dioxide gas. Mizutani K, et al. **Tokai J Exp Clin Med** 1996 Jun; 21(2):89–96
Prevalence of hepatitis B surface antigen and HCV antibodies in hepatocellular carcinoma cases in Karachi, Pakistan. Abdul Mujeeb S, et al. **Trop Doct** 1997 Jan;27(1):45–6
[Hemobilia disclosing very small hepatocellular carcinoma ruptured into the biliary ducts] Cajot O, et al.
Gastroenterol Clin Biol 1997;21(5):426–9 (19 ref.) (Eng. Abstr.) **(Fre)**
[The superior vena cava occlusion syndrome. A case of neoplastic thrombosis due to hepatocarcinoma and cirrhosis] Zanetti PP, et al. **Minerva Chir** 1997 Apr; 52(4):455–9 (20 ref.) (Eng. Abstr.) **(Ita)**
[Pathogenesis and treatments of glucose intolerance with liver cirrhosis in men—lessons from the clinical cases of Fukuoka City Hospital, Department of Internal Medicine, Fukuoka, Japan] Ohashi M, et al.
Fukuoka Igaku Zasshi 1996 Oct;87(10):222–5 (Eng. Abstr.) **(Jpn)**
[A case of hepatocellular carcinoma complicated with psoas abscess] Tanaka Y, et al. **Kansenshogaku Zasshi** 1997 Feb; 71(2):175–8 (Eng. Abstr.) **(Jpn)**
[An autopsy case of anti–neutrophil cytoplasmic antibodies associated vasculitis accompanied by autoimmune hepatitis and hepatocellular carcinoma] Suwa A, et al.
Nihon Rinsho Meneki Gakkai Kaishi 1997 Apr;20(2):117–25 (Eng. Abstr.) **(Jpn)**
[A case of double cancer, cholangiocellular and hepatocellular carcinoma associated with autoimmune hepatitis] Kanemasa H, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Dec;93(12):915–20 **(Jpn)**
[A case of hepatocellular carcinoma with direct invasion into the pleural cavity presenting as hemorrhage achieved hemostasis with intra–arterial injection of ethanol] Kanou S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct; 93(10):753–7 **(Jpn)**
[Peripheral mononeuropathy as first manifestation of hepatocellular carcinoma (letter)] Peiro R, et al.
An Med Interna 1997 Mar;14(3):157–8 **(Spa)**
[Salmonella D spontaneous peritonitis in a cirrhotic patient with hepatocarcinoma (letter)] Aller R, et al.
Enferm Infecc Microbiol Clin 1996 Nov;14(9):575 **(Spa)**
[Disseminated sporotrichosis in a patient with chronic hepatopathy and hepatocarcinoma: report of a case (letter)] Vasen W, et al. **Enferm Infecc Microbiol Clin** 1996 Oct; 14(8):514–5 **(Spa)**
[Hepatitis C virus infection in a patient with porphyria cutanea tarda and hepatocarcinoma (letter)] Sancho MT, et al. **Rev Clin Esp** 1996 Oct;196(10):725–6 **(Spa)**
[Selective intra–arterial embolization in spontaneous rupture of hepatocarcinoma] Trillo Parejo P, et al.
Rev Esp Enferm Dig 1996 Aug;88(8):569–72 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

MR imaging of hepatocellular carcinomas: effect of Cu and Fe contents on signal intensity. Honda H, et al.
Abdom Imaging 1997 Jan–Feb;22(1):60–6
High–resolution MR imaging evaluation of hepatocellular carcinoma. Ohtomo K, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):182–6
Uptake of mangafodipir trisodium (MnDPDP) by hepatocellular carcinoma: correlation with unenhanced imaging findings and histopathologic features. Chezmar JL, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S413–4
Clinical evaluation of ultrasmall superparamagnetic iron oxide particles for liver imaging. Saini S, et al.
Acad Radiol 1996 Aug;3 Suppl 2:S409–12
Combined hepatocellular–cholangiocarcinoma. Cytologic findings in four cases. Dusenbery D. **Acta Cytol** 1997 May–Jun;41(3):903–9
pCEA canalicular immunostaining in fine needle aspiration biopsy diagnosis of hepatocellular carcinoma. Wee A, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1147–55
Usefulness of indocyanine green injection during ultrasound–guided liver biopsy for the diagnosis of small hepatocellular carcinoma. Kimura Y, et al.
Acta Med Okayama 1996 Oct;50(5):255–9
Vimentin–positive spider–shaped Kupffer cells. A new clue to cytologic diagnosis of primary and metastatic hepatocellular carcinoma by fine–needle aspiration biopsy. Wu HH, et al. **Am J Clin Pathol** 1996 Oct;106(4):517–21
Clinical application of a new monoclonal antibody (19B7) against PIVKA–II in the diagnosis of hepatocellular carcinoma and pancreatobiliary malignancies. Nakao A, et al. **Am J Gastroenterol** 1997 Jun;92(6):1031–4
Hepatocellular carcinoma in primary biliary cirrhosis. Turissini SB, et al. **Am J Gastroenterol** 1997 Apr; 92(4):676–8 (26 ref.)
Cost–effectiveness of screening for detection of small hepatocellular carcinoma in western patients with Child–Pugh class A cirrhosis. Sarasin FP, et al.
Am J Med 1996 Oct;101(4):422–34
A logical approach to hepatocellular carcinoma presenting with jaundice. Lau W, et al. **Ann Surg** 1997 Mar; 225(3):281–5
Imaging: focus on hepatocellular carcinoma and liver transplantation. Redhead DN, et al.
Baillieres Clin Gastroenterol 1995 Dec;9(4):771–90 (66 ref.)
'Hepatoma–specific' alphafetoprotein may permit preclinical diagnosis of malignant change in patients with chronic liver disease. Johnson PJ, et al. **Br J Cancer** 1997;75(2):236–40
Usefulness of iron colloid–enhanced MRI in differentiating experimental hepatocellular carcinoma from hyperplastic nodules in rats: analysis by microautoradiography. Suto Y, et al. **Br J Radiol** 1996 Dec;69(828):1139–44
Hepatoma, paroxysmal dyspnea and diaphragmatic hump. Leow CK, et al. **Can J Surg** 1997 Feb;40(1):12
Des–gamma–carboxy prothrombin and alpha–fetoprotein positive status as a new prognostic indicator after hepatic resection for hepatocellular carcinoma. Shimada M, et al. **Cancer** 1996 Nov 15;78(10):2094–100
Ablation of hepatocellular carcinoma by percutaneous ethanol injection: imaging findings. Becker CD, et al.
Cardiovasc Intervent Radiol 1997 May–Jun;20(3):204–10
Pityriasis rubra pilaris as an initial presentation of hepatocellular carcinoma. Sharma S, et al. **Dermatology**

1997;194(2):166–7

Screening for hepatocellular carcinoma. Haydon GH, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):856–60 (49 ref.)

Tolerability and utility of mangafodipir trisodium injection (MnDPDP) at the dose of 5 mumol/kg body weight in detecting focal liver tumors: results of a phase III trial using an infusion technique. Padovani B, et al. **Eur J Radiol** 1996 Nov;23(3):205–11

Effects of lipiodol retention on MRI signal intensity from hepatocellular carcinoma and surrounding liver treated by chemoembolization. De Santis M, et al. **Eur Radiol** 1997; 7(1):10–6

Enhancement characteristics of liver metastases, hepatocellular carcinomas, and hemangiomas with Gd-EOB-DTPA: preliminary results with dynamic MR imaging. Reimer P, et al. **Eur Radiol** 1997;7(2):275–80

Are all these HCCs incidental? Think again! [letter; comment] Altraif I. **Gastroenterology** 1997 Aug;113(2):730. Comment on: Gastroenterology 1996 Dec;111(6):1587–92.

The usefulness of anti-fucosylated antigen antibody YB-2 for diagnosis of hepatocellular carcinoma. Nakamura J, et al. **Glycoconj J** 1997 Jan;14(1):81–7

Unusual presentation of a small hepatocellular carcinoma: a case report. Lee WC, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):153–5

Early detection of recurrent hepatocellular carcinoma. Nishizaki T, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):508–13

Case of small hepatocellular carcinoma in the caudate lobe detected after interferon caused disappearance of hepatitis C virus. Tamori A, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1079–83

Hepatocellular carcinoma arising in an adenoma: value of QBend 10 immunostaining in diagnosis of liver cell carcinoma [see comments] Scott FR, et al. **Histopathology** 1996 May;28(5):472–4. Comment in: Histopathology 1996 Dec;29(6):593–4.

ICG clearance in assessing cirrhotic patients with hepatocellular carcinoma for major hepatic resection. Kitano S, et al. **HPB Surg** 1997;10(3):182–3 (9 ref.)

Significance of telomerase activity in the diagnosis of small differentiated hepatocellular carcinoma. Nakashio R, et al. **Int J Cancer** 1997 Apr 22;74(2):141–7

Small hepatocellular carcinoma on magnetic resonance imaging. Relation of signal intensity to angiographic and clinicopathologic findings. Honda H, et al. **Invest Radiol** 1997 Mar;32(3):161–8

Detection of hepatocellular cancer during screening of 1125 patients with chronic hepatitis virus infection. Izzo F, et al. **J Chemother** 1997 Apr;9(2):151–2

Detection of hepatocellular carcinoma with a new alpha-fetoprotein antibody imaging kit. Dresel S, et al. **J Clin Oncol** 1997 Jul;15(7):2683–90

Effusion cytology of hepatocellular carcinoma with in situ hybridisation for human albumin. Stephen MR, et al. **J Clin Pathol** 1997 May;50(5):442–4

Usefulness of ED036 kit for measuring serum PIVKA-II levels in small hepatocellular carcinoma. Kuromatsu R, et al. **J Gastroenterol** 1997 Aug;32(4):507–12

Laparoscopic prediction of hepatocellular carcinoma in cirrhosis patients. Kameda Y, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):576–81

Hepatocellular carcinoma in the caudate lobe: early diagnosis and active treatment may result in long-term survival. Lu CL, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):144–8

Detection of hepatocellular carcinoma after interferon therapy for chronic hepatitis C: clinical study of 26 cases. Sugiura N, et al. **J Gastroenterol Hepatol** 1996 Jun; 11(6):535–9

Microheterogeneity of serum transferrin in the diagnosis of hepatocellular carcinoma. Suzuki Y, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):358–65

Predictive value of serum sex hormone binding globulin for the occurrence of hepatocellular carcinoma in male patients with cirrhosis. Ganne-Carrié N, et al. **J Hepatol** 1997 Jan; 26(1):96–102

Imaging in liver disease. Karani J. **J Hepatol** 1996;25 Suppl 1:1–4

Utility of lentil lectin affinity of alpha-fetoprotein in the diagnosis of hepatocellular carcinoma. Wang SS, et al. **J Hepatol** 1996 Aug;25(2):166–71

Malignant lesions of the liver with high signal intensity on T1-weighted MR images. Kelekis NL, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):291–4

Influence of copper on MRI of hepatocellular carcinoma. Matsuzaki K, et al. **J Magn Reson Imaging** 1997 May–Jun; 7(3):478–81

Detection of circulating albumin-mRNA by RT-PCR does not indicate metastasizing hepatocellular carcinoma. Leonhardt U, et al. **Langenbecks Arch Chir** 1997; 382(2):83–6

MR imaging of the liver. Primary malignant neoplasms in the adult. Buetow PC, et al. **Magn Reson Imaging Clin N Am** 1997 May;5(2):289–318 (55 ref.)

Utilization of hepatocyte-specific antibody in the immunocytochemical evaluation of liver tumors. Minervini MI, et al. **Mod Pathol** 1997 Jul;10(7):686–92

Intracranial metastases of hepatocellular carcinoma: CT and MRI. Murakami K, et al. **Neuroradiology** 1996 May;38 Suppl 1:S31–5

Simulation of right atrial cardiac myxoma by silent hepatocellular carcinoma. Giacalone A, et al. **Pathol Res Pract** 1996 Dec;192(12):1270–3; discussion 1274

High-resolution dynamic MR imaging of hepatocellular carcinoma with a phased-array body coil [published erratum appears in Radiographics 1997 May–Jun;17(3):804] Fujita T, et al. **Radiographics** 1997 Mar–Apr;17(2):315–31; discussion 332–5

Dysplastic nodules and hepatocellular carcinoma: thin-section MR imaging of explanted cirrhotic livers with pathologic correlation [see comments] Earls JP, et al. **Radiology** 1996 Oct;201(1):207–14. Comment in: Radiology 1996 Oct;201(1):21–2.

Differentiation of liver hemangiomas from metastases and hepatocellular carcinoma at MR imaging enhanced with blood-pool contrast agent Code-7227. Harisinghani MG, et al. **Radiology** 1997 Mar;202(3):687–91

Urinary transforming growth factor-beta 1 in relation to serum alpha-fetoprotein in hepatocellular carcinoma. Tsai JF, et al. **Scand J Gastroenterol** 1997 Mar;32(3):254–60

A case of microhepatoma associated with schistosomiasis japonica diagnosed by enhanced ultrasonography after hepatic intraarterial injection of carbon dioxide gas. Mizutani K, et al. **Tokai J Exp Clin Med** 1996 Jun; 21(2):89–96

[Laparoscopy and laparoscopic echography in the diagnosis of hepatocellular carcinoma] Krüstev N, et al. **Khirurgiia (Sofiia)** 1996;49(5):31–4 (Eng. Abstr.) **(Bul)**

[Evaluation of the combined assay of alpha-feto protein and gamma-glutamyl transpeptidase isoenzyme II in the diagnosis of primary hepatic carcinoma] Ding S, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):690–2 (Eng. Abstr.) **(Chi)**

[Diagnostic imaging of hepatocellular carcinoma] Vogl TJ, et al. **Dtsch Med Wochenschr** 1997 May 2;122(18):585–8 (13 ref.) **(Ger)**

[Comparison of fast turbo-spin-echo and gradient- and spin-echo sequences as well as echo planar imaging with conventional spin-echo sequences in MRI of focal liver lesions at 1.0 tesla] Jung G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):137–43 (Eng. Abstr.) **(Ger)**

[Diagnosis of hepatocellular carcinoma] Allgaier HP, et al. **Schweiz Med Wochenschr** 1996 Nov 16;126(46):1975–83 (94 ref.) (Eng. Abstr.) **(Ger)**

[Space-occupying lesions in the liver--rational step-wise diagnosis] Brambs HJ. **Schweiz Rundsch Med Prax** 1996 Nov 19;85(47):1518–23 (Eng. Abstr.) **(Ger)**

[Assessment of the therapeutic effectiveness of alcohol administration in hepatocarcinoma: comparison of spiral computerized tomography and Doppler color ultrasonography] Basilico R, et al. **Radiol Med (Torino)** 1996 Jul–Aug;92(1–2):92–6 (Eng. Abstr.) **(Ita)**

[Usefulness of spiral CT in the detection of hypovascular, well-differentiated hepatocellular carcinoma] Fujita M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Mar; 56(4):155–9 (Eng. Abstr.) **(Jpn)**

[Early phase II trial of Gd-BOPTA (E7155) for the MR imaging of liver tumors] Kuwatsuru R, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul; 56(8):555–63 (Eng. Abstr.) **(Jpn)**

[MR imaging of hepatocellular carcinoma following microwave coagulation therapy] Murata K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):940–7 (Eng. Abstr.) **(Jpn)**

[Early discovery of hepatocellular carcinoma] Tanikawa K. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):402–5 (9 ref.) **(Jpn)**

[A case of hepatocellular carcinoma detected by dynamic CT and MRI but not digital subtraction angiography] Omae A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan; 94(1):56–61 **(Jpn)**

[Development of highly sensitive assay for detection of low serum level of PIVKA-II and its clinical usefulness] Sakizono K, et al. **Rinsho Byori** 1996 Sep;44(9):871–6 (Eng. Abstr.) **(Jpn)**

[Ultrasonically guided needle biopsy in malignant focal solid nodules of the liver] de Oliveira e Silva A, et al. **Arq Gastroenterol** 1996 Jul–Sep;33(3):151–7 (Eng. Abstr.) **(Por)**

[Early diagnosis of hepatocellular carcinoma (letter)] Lorenzo Romo I, et al. **Gastroenterol Hepatol** 1996 Aug–Sep;19(7):390 **(Spa)**

[Hepatocellular carcinoma. General aspects of diagnosis and treatment] Manterola C, et al. **Rev Med Chil** 1996 Apr; 124(4):469–79 (44 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Hepatic arteriography in patients with hepatocellular carcinoma under balloon occlusion of a hepatic vein draining the tumor-bearing liver parenchyma: useful for arterial infusion treatment? [letter; comment] Murata S, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1063–4. Comment on: AJR Am J Roentgenol 1995 Dec;165(6):1415–9.

A prospective randomized administration of 5'-deoxy-5-fluorouridine as adjuvant chemotherapy for hepatocellular carcinoma treated with transcatheter arterial chemoembolization. Ikeda K, et al. **Am J Clin Oncol** 1997 Apr;20(2):202–8

A prospective phase II trial to evaluate the efficacy and toxicity of hepatic arterial infusion of ifosfamide in patients with inoperable localized hepatocellular carcinoma. Malik IA, et al. **Am J Clin Oncol** 1997 Jun;20(3):289–92

Treatment of hypervascular small hepatocellular carcinoma with ultrasound-guided percutaneous acetic acid injection: comparison with segmental transcatheter arterial embolization. Ohnishi K, et al. **Am J Gastroenterol** 1996 Dec;91(12):2574–9

A phase II study of raltitrexed ('Tomudex') in patients with hepatocellular carcinoma. Rougier P, et al. **Ann Oncol** 1997 May;8(5):500–2

Treatment of hepatocellular carcinoma: a systematic review of randomized controlled trials. Simonetti RG, et al. **Ann Oncol** 1997 Feb;8(2):117–36 (54 ref.)

Continuous infusional 5-fluorouracil chemotherapy [letter] Olthoff KM, et al. **Ann Surg** 1996 Nov;224(5):686

Drug conjugate of doxorubicin with glutathione is a potent reverser of multidrug resistance in rat hepatoma cells. Asakura T, et al. **Anticancer Drugs** 1997 Feb;8(2):199–203

A pharmacological pilot study: application of an intermittent schedule of oral uracil and ftorafur (UFT) for hepatocellular carcinoma patients. Une Y, et al. **Anticancer Drugs** 1996 Nov;7(8):881–4

Human hepatoma cells rich in P-glycoprotein are sensitive to aclarubicin and resistant to three other anthracyclines. Lehne G, et al. **Br J Cancer** 1996 Dec;74(11):1719–29

A novel chemotherapy for advanced hepatocellular carcinoma with tumor thrombosis of the main trunk of the portal vein. Ando E, et al. **Cancer** 1997 May 15; 79(10):1890–6

Reduction of LAK-sensitivity and changes in antigen expression on hepatoma cells by sodium butyrate. Tada S, et al. **Cancer Biochem Biophys** 1996 Apr;15(3):177–86

Fibrolamellar hepatocellular carcinoma responsive to platinum-based combination chemotherapy. Bower M, et al. **Clin Oncol (R Coll Radiol)** 1996;8(5):331–3

A phase I/II trial of epirubicin and high dose tamoxifen as a potential modulator of multidrug resistance in advanced hepatocellular carcinoma [letter] Raderer M, et al. **Eur J Cancer** 1996 Dec;32A(13):2366–8

Aggressive high-dose intra-hepatic artery chemotherapy for unresectable hepatocellular carcinoma (HCC). Carr BI. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1379 (0 ref.)

Mitoxantrone, 5-FU + folinic acid, mitomycin C for regional chemotherapy of malignant liver tumors. Link KH, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1380 (0 ref.)

A case of hepatocellular carcinoma effectively treated with epirubicin aqueous vesicles in monodispersed iodized poppy-seed oil microdroplets. Higashi S, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1427–30

Postoperative adjuvant locoregional chemotherapy in patients with hepatocellular carcinoma. Izumi R, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1415–20

Chemolipiodolization and prostaglandin E1 administration with use of hepatic arterial infusion port for the treatment of hepatocellular carcinoma and liver cirrhosis. Kakizoe S, et al. **Hepatogastroenterology** 1996 Sep–Oct; 43(11):1377–82

Is postoperative chemotherapy effective for the prevention of recurrence after surgery for hepatocellular carcinoma? Kanmematsu T. **Hepatogastroenterology** 1996 Nov–Dec; 43(12):1404

Postoperative adjuvant chemotherapy after radical hepatic resection for hepatocellular carcinoma (HCC). Kohno H, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1405–9

Multidisciplinary management of hepatocellular carcinoma. Lygidakis NJ, et al. **Hepatogastroenterology** 1997 Jan–Feb; 44(13):268–73

Postoperative adjuvant arterial infusion chemotherapy for patients with hepatocellular carcinoma. Nakashima K, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1410–4

Chemosensitivity in primary liver cancers: evaluation of the correlation between chemosensitivity and clinicopathological factors. Shimada M, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1159–64

Optimal locoregional immunochemotherapy after tumor-mass reduction for advanced hepatocellular carcinoma. Yamamoto M, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):567–77 (35 ref.)

Efficacy of intra-arterial norcantharidin in suppressing tumour 14C-labelled glucose oxidative metabolism in rat Morris hepatoma. Mack P, et al. **HPB Surg** 1996; 10(2):65–72

Long-term results of hepatic artery fluorodeoxyuridine and conformal radiation therapy for primary hepatobiliary cancers. Robertson JM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):325–30

A phase II study of weekly oral methotrexate and zidovudine (AZT) in advanced adenocarcinoma of the pancreas and hepatocellular carcinoma. Miller KD, et al. **Invest New Drugs** 1996;14(2):207–12

Stimulation of apolipoprotein E secretion in human hepatoma Hep G2 cells by a cyclic acylpeptide, N-4909 [letter] Hiramoto S, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):949–52

Drug-induced apoptosis in hepatoma cells is mediated by the CD95 (APO-1/Fas) receptor/ligand system and involves activation of wild-type p53. Müller M, et al. **J Clin Invest** 1997 Feb 1;99(3):403–13

Intra-hepatic arterial drug delivery. Blesing CH, et al. **J Drug Target** 1996;3(5):341–7 (63 ref.)

Effect of arterial administration of a high molecular weight anti-tumor agent, styrene maleic acid neocarzinostatin, for multiple small liver cancer--a pilot study. Ikeda K, et al. **J Gastroenterol** 1997 Aug;32(4):513–20

Malignant lymphoma of the stomach after chemotherapy for hepatocellular carcinoma. Matsuo I, et al. **J Gastroenterol** 1997 Aug;32(4):533–7

Phase II study of megestrol acetate in the treatment of hepatocellular carcinoma. Chao Y, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):277–81

Expression of P-glycoprotein and p53 in advanced hepatocellular carcinoma treated by single agent chemotherapy: clinical correlation. Chou YY, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):569–75

Photosensitization of experimental hepatocellular carcinoma with protoporphyrin synthesized from administered delta-aminolevulinic acid: studies with cultured cells and implanted tumors. Egger NG, et al. **J Hepatol** 1997 Apr; 26(4):913–20

Significance of tumor vascularity as a predictor of long-term prognosis in patients with small hepatocellular carcinoma treated by percutaneous ethanol injection therapy. Toyoda H, et al. **J Hepatol** 1997 May;26(5):1055–62

Combined cis-platinum and alpha interferon therapy of advanced hepatocellular carcinoma. Ji SK, et al. **Korean J Intern Med** 1996 Jan;11(1):58–68

Inhibition of the genotoxic effects of heterocyclic amines in human derived hepatoma cells by dietary bioantimutagens. Sanyal R, et al. **Mutagenesis** 1997 Jul;12(4):297–303

Polyprenoic acid in hepatocellular carcinoma [letter; comment] Decensi A, et al. **N Engl J Med** 1996 Nov 7; 335(19):1461; discussion 1461–2. Comment on: N Engl J Med 1996 Jun 13;334(24):1561–7.

Polyprenoic acid in hepatocellular carcinoma [letter; comment] Yang CH, et al. **N Engl J Med** 1996 Nov 7; 335(19):1460–61; discussion 1461–2. Comment on: N Engl J Med 1996 Jun 13;334(24):1561–7.

Carboplatin as an anticancer agent for transcatheter arterial chemoembolization in patients with hepatocellular carcinoma. Yamashita F, et al. **Oncology** 1997 Jan-Feb; 54(1):28–33

Use of novel beta-L(-)-nucleoside analogues for treatment and prevention of chronic hepatitis B virus infection and hepatocellular carcinoma. Bridges EG, et al. **Prog Liver Dis** 1995;13:231–45 (70 ref.)

Adjuvant chemotherapy with epirubicin and carmofur after radical resection of hepatocellular carcinoma: a prospective randomized study. Ono T, et al. **Semin Oncol** 1997 Apr; 24(2 Suppl 6):S6-18–S6-25

The effect of YNK-01 (an oral prodrug of cytarabine) on hepatocellular carcinoma. Suto T, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6-122–S6-129

Incidence of hepatocellular carcinoma after interferon therapy in patients with chronic hepatitis C. Onodera H, et al. **Tohoku J Exp Med** 1997 Feb;181(2):275–83

Alpha-fetoprotein as a TNF resistance factor for the human hepatocarcinoma cell line HepG2. Semenkova LN, et al. **Tumour Biol** 1997;18(1):30–40

[Tamoxifen and hepatocellular carcinoma: verdict after enthusiasm... (letter)] Barbare JC. **Gastroenterol Clin Biol** 1996;20(6-7):609–10 **(Fre)**

[Effects of intra-hepatic arterial injection of mitoxantrone for hepatocellular carcinoma] Hiraki S, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1415–8 (Eng. Abstr.) **(Jpn)**

[Targeted chemotherapy of hepatocellular carcinoma using Lipiodol as a carrier] Konno T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1392–9 (Eng. Abstr.) **(Jpn)**

[A case of giant hepatocellular carcinoma successfully treated by arterial administration of SMANCS] Yajima Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(10):1325–9 (Eng. Abstr.) **(Jpn)**

[Usefulness of continuous arterial infusion chemotherapy for post operative multiple recurrence and residual hepatocellular carcinoma] Yanagi I, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1419–21 (Eng. Abstr.) **(Jpn)**

[Percutaneous ethanol injection therapy for small hepatocellular carcinoma] Otsuka S. **Nippon Rinsho** 1996 May;54(5):1347–50 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Long-term survival cases of hepatocellular carcinoma with portal tumor thrombus by repeated arterial infusion chemotherapy using implantable port system] Endo T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jun;94(6):413–8 **(Jpn)**

[Glucose intolerance after percutaneous ethanol injection therapy (PEI) in liver cirrhosis patients with hepatocellular carcinoma] Tamano M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):90–5 (Eng. Abstr.) **(Jpn)**

ECONOMICS

Cost-effectiveness of intrainstitutional information exchange in the diagnostic and therapeutic management of hepatocellular carcinoma. Bartolozzi C, et al. **Acad Radiol** 1996 Apr;3 Suppl 1:S77–9

Cost-effectiveness of screening for detection of small hepatocellular carcinoma in western patients with Child-Pugh class A cirrhosis. Sarasin FP, et al. **Am J Med** 1996 Oct;101(4):422–34

ENZYMOLOGY

Cellular distribution of 92-kd type IV collagenase/gelatinase B in human hepatocellular carcinoma. Ashida K, et al. **Am J Pathol** 1996 Dec;149(6):1803–11

Increased MAPK expression and activity in primary human hepatocellular carcinoma. Schmidt CM, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):54–8

Association of insulin-degrading enzyme with a 70 kDa cytosolic protein in hepatoma cells. Authier F, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):149–58

Inhibition of spermidine synthase gene expression by transforming growth factor-beta 1 in hepatoma cells. Nishikawa Y, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):537–43

Ginsenoside-Rg1 positively regulates cyclin E-dependent kinase activity in human hepatoma SK-HEP-1 cells. Lee KY, et al. **Biochem Mol Biol Int** 1996 Jun;39(3):539–46

Relationship between the recurrence of hepatocellular carcinoma (HCC) and serum alanine aminotransferase levels in hepatectomized patients with hepatitis C virus-associated cirrhosis and HCC. Tarao K, et al. **Cancer** 1997 Feb 15;79(4):688–94

Effect of glucosinolate breakdown products on beta-naphthoflavone-induced expression of human cytochrome P450 1A1 via the Ah receptor in Hep G2 cells. Wang H, et al. **Cancer Lett** 1997 Mar 19;114(1-2):121–5

Glutathione S-transferase expression in hepatitis B virus-associated human hepatocellular carcinogenesis. Zhou T, et al. **Cancer Res** 1997 Jul 1;57(13):2749–53

Presence of UDP-D-xylose: beta-D-glucoside alpha-1,3-D-xylosyltransferase involved in the biosynthesis of the Xyl alpha 1-3Glc beta-Ser structure of glycoproteins in the human hepatoma cell line HepG2. Omichi K, et al. **Eur J Biochem** 1997 Apr 1;245(1):143–6

Selective fast degradation of cytochrome P-450 2E1 in serum-deprived hepatoma cells by a mechanism sensitive to inhibitors of vesicular transport. Zhukov A, et al. **Eur J Biochem** 1997 Jul 1;247(1):37–43

Cathepsin D serum mass concentrations in patients with hepatocellular carcinoma and/or liver cirrhosis. Leto G, et al. **Eur J Clin Chem Clin Biochem** 1996 Jul;34(7):555–60

Telomerase activity and telomere length in hepatocellular carcinoma and chronic liver disease. Kojima H, et al. **Gastroenterology** 1997 Feb;112(2):493–500

Relation of enhanced secretion of active matrix metalloproteinases with tumor spread in human hepatocellular carcinoma. Yamamoto H, et al. **Gastroenterology** 1997 Apr;112(4):1290–6

The characteristics of hepatocellular carcinoma with a high level of serum lactic dehydrogenase: a case report. Fujiwara Y, et al. **Hepatogastroenterology** 1997 May-Jun; 44(15):820–3

Difference in gene expression for matrix metalloproteinase-1 between early and advanced hepatocellular carcinomas. Okazaki I, et al. **Hepatology** 1997 Mar;25(3):580–4

Telomerase in hepatocellular carcinogenesis. Ide T, et al. **Hum Cell** 1996 Dec;9(4):283–6 (2 ref.)

Detection of UDP-D-xylose: alpha-D-xyloside alpha 1-->3xylosyltransferase activity in human hepatoma cell line HepG2. Minamida S, et al. **J Biochem (Tokyo)** 1996 Nov;120(5):1002–6

Characterization of insulin-like growth factor binding protein-1 kinases from human hepatoma cells. Ankrapp DP, et al. **J Cell Biochem** 1996 Mar 1;60(3):387–99

Overexpression of human aspartyl(asparaginyl)beta-hydroxylase in hepatocellular carcinoma and cholangiocarcinoma. Lavaissiere L, et al. **J Clin Invest** 1996 Sep 15;98(6):1313–23

In situ detection of matrix metalloproteinase-2 (MMP2) and the metalloproteinase inhibitor TIMP2 transcripts in human primary hepatocellular carcinoma and in liver metastasis. Musso O, et al. **J Hepatol** 1997 Mar;26(3):593–605

Aberrant dipeptidyl peptidase IV (DPP IV/CD26) expression in human hepatocellular carcinoma. Stecca BA, et al. **J Hepatol** 1997 Aug;27(2):337–45

Clinical significance of telomerase activity in hepatocellular carcinoma. Ohta K, et al. **Kobe J Med Sci** 1996 Jun; 42(3):207–17

Expression and inducibility of UDP-glucuronosyltransferases 1-naphthol in human cultured hepatocytes and hepatocarcinoma cell lines. Abid A, et al. **Life Sci** 1997; 60(22):1943–51

A childhood fibrolamellar hepatocellular carcinoma with increased aromatase activity and a near triploid karyotype. Hany MA, et al. **Med Pediatr Oncol** 1997 Feb;28(2):136–8

Activity and characterization of sialyltransferase from serum of normal rats, of rats bearing Zajdela ascitic hepatoma, in normal host liver and in Zajdela hepatoma cells. Ivanov DG, et al. **Neoplasma** 1996;43(3):205–8

Lysosomal cathepsins B and L and Stefin A blood levels in patients with hepatocellular carcinoma and/or liver cirrhosis: potential clinical implications. Leto G, et al. **Oncology** 1997 Jan-Feb;54(1):79–83

Isolation and characterization of HPRT-deficient human hepatoma cells. Porter MB, et al. **Somat Cell Mol Genet** 1996 Jul;22(4):341–8

Bioassay for determining 2,3,7,8-tetrachlorodibenzo-p-dioxin equivalents (TEs) in human hepatoma Hepg2 cells. Wiebel FJ, et al. **Toxicol Lett** 1996 Nov;88(1-3):335–8

Lead may affect glucocorticoid signal transduction in cultured hepatoma cells through inhibition of protein kinase C. Tonner LE, et al. **Toxicology** 1997 Apr 30;119(2):155–66

[The radiobiologic characteristics of DNA polymerase beta in hepatomas] Cai J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):20–2 (Eng. Abstr.) **(Chi)**

[Laminin-dependent growth arrest of human hepatic carcinoma cell line, HuH-7, in association with expression of p21/WAF-1 protein] Arita A, et al. **Nippon Ika Daigaku Zasshi** 1997 Apr;64(2):147–53 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Relative risk for the development of hepatocellular carcinoma in alcoholic patients with cirrhosis: a multiple logistic-regression coefficient analysis. Tsutsumi M, et al. **Alcohol Clin Exp Res** 1996 Jun;20(4):758–62

Primary hepatocellular carcinoma in patients with chronic hepatitis B virus infection. Kiszkis H. **Arch Immunol Ther Exp (Warsz)** 1996;44(5-6):315–23 (50 ref.)

Liver cancer in Taiwan falls after universal hepatitis B vaccination [news] Mayor S. **BMJ** 1997 Jul 5;315(7099):7

Mutual confounding and interactive effects between hepatitis C and hepatitis B viral infections in hepatocellular carcinogenesis: a population-based case-control study in Taiwan. Sun CA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):173–8

Risk of hepatobiliary disease in adults with severe alpha 1-antitrypsin deficiency (PiZZ): is chronic viral hepatitis B or C an additional risk factor for cirrhosis and hepatocellular carcinoma? Elzouki AN, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):989–94

The epidemiology of hepatocellular carcinoma. Johnson PJ. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):845–9 (50 ref.)

Fibrolamellar hepatic carcinoma in an area with a low incidence of primary liver cancer: a retrospective study. Kaczynski J, et al. **Eur J Surg** 1996 May;162(5):367–71

GB virus-C/hepatitis G virus infection in an area endemic for viral hepatitis, chronic liver disease, and liver cancer. Kao JH, et al. **Gastroenterology** 1997 Apr;112(4):1265–70

Hepatocellular carcinoma and african iron overload [letter; comment] Walker AR, et al. **Gut** 1996 Jun;38(6):937–8. Comment on: Gut 1995 Nov;37(5):727–30.

Hepatitis B and C virus infection, alcohol drinking, and hepatocellular carcinoma: a case-control study in Italy. Brescia HCC Study. Donato F, et al. **Hepatology** 1997 Sep; 26(3):579–84

Does hepatitis GB virus-C infection cause hepatocellular carcinoma in black Africans? Lightfoot K, et al. **Hepatology** 1997 Sep;26(3):740–2

Hepatitis viruses, schistosomal infection and liver cancer in Egypt [letter] Bedwani R, et al. **Int J Cancer** 1996 Nov 27;68(5):688–9

Multivariate analysis of risk factors for hepatocellular carcinoma in patients with hepatitis C virus-related liver cirrhosis. Chiba T, et al. **J Gastroenterol** 1996 Aug; 31(4):552–8

The epidemiology of hepatocellular carcinoma in patients with acute intermittent porphyria. Andersson C, et al. **J Intern Med** 1996 Oct;240(4):195–201

Second primary cancers following non-Hodgkin's lymphoma in Japan: increased risk of hepatocellular carcinoma. Tanaka H, et al. **Jpn J Cancer Res** 1997 Jun;88(6):537–42

Universal hepatitis B vaccination in Taiwan and the incidence of hepatocellular carcinoma in children. Taiwan Childhood Hepatoma Study Group [see comments] Chang MH, et al. **N Engl J Med** 1997 Jun 26;336(26):1855–9. Comment in: N Engl J Med 1997 Jun 26;336(26):1906–7.

Hepatocellular carcinoma in children. Moore SW, et al. **Pediatr Surg Int** 1997 Apr;12(4):266–70

Increased risk for hepatocellular carcinoma in NAT2-slow acetylators and CYP2D6-rapid metabolizers. Agúndez JA, et al. **Pharmacogenetics** 1996 Dec;6(6):501–12

Time trends in the incidence of hepatocellular carcinoma in liver cirrhosis. A retrospective necropsy study in a large Romanian town (1973-1992). Acalovschi M, et al. **Rom J Intern Med** 1996 Jan-Jun;34(1-2):85–90

[Etiology and epidemiology of hepatocellular carcinoma] Brodanová M. **Vnitr Lek** 1997 Mar;43(3):157–61 (Eng. Abstr.) **(Cze)**

[Epidemiology of hepatocellular carcinoma in the department of Calvados] Even C, et al. **Gastroenterol Clin Biol** 1997; 21(6-7):450–8 (53 ref.) (Eng. Abstr.) **(Fre)**

ETIOLOGY

The development of hepatocellular carcinoma in cirrhotic and noncirrhotic livers [letter] Morris SA. **Am J Clin Pathol** 1997 Feb;107(2):251

Hepatitis B virus X antigen in the pathogenesis of chronic infections and the development of hepatocellular carcinoma. Feitelson MA, et al. **Am J Pathol** 1997 Apr; 150(4):1141–57 (164 ref.)

Effects of multiple risk factors for hepatocellular carcinoma on formation of aflatoxin B1-DNA adducts. Yu MW, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):613–9

Integrity of p53 in hepatitis B x antigen-positive and -negative hepatocellular carcinomas. Greenblatt MS, et al. **Cancer Res** 1997 Feb 1;57(3):426–32

Synergy between transforming growth factor alpha and hepatitis B virus surface antigen in hepatocellular proliferation and carcinogenesis. Jakubczak JL, et al. **Cancer Res** 1997 Aug 15;57(16):3606–11

p53 mutations, chronic hepatitis B virus infection, and aflatoxin exposure in hepatocellular carcinoma in Taiwan.

Lunn RM, et al. **Cancer Res** 1997 Aug 15;57(16):3471–7

Absence of mutations in the p53 tumor suppressor gene in woodchuck hepatocellular carcinomas associated with hepadnavirus infection and intake of aflatoxin B1. Rivkina M, et al. **Carcinogenesis** 1996 Dec;17(12):2689–94

Alcohol and other chemicals in the development of hepatocellular carcinoma. Farber E. **Clin Lab Med** 1996 Jun;16(2):377–94 (80 ref.)

Attributable risks for hepatocellular carcinoma in northern Italy. Braga C, et al. **Eur J Cancer** 1997 Apr;33(4):629–34

Hepatocellular carcinoma in a non-cirrhotic coal miner with secondary haemochromatosis. De Tomás J, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):633–4

Can interferon prevent hepatocellular carcinoma in hepatitis C virus-induced cirrhosis? Grimm I, et al. **Gastroenterology** 1996 Jun;110(6):2019–21

Adult cirrhotic liver explants: precancerous lesions and undetected small hepatocellular carcinomas [see comments] Mion F, et al. **Gastroenterology** 1996 Dec;111(6):1587–92 . Comment in: Gastroenterology 1997 Aug;113(2):730.

Needle tract implantation of hepatocellular carcinoma after ultrasonically guided needle liver biopsy: a case report. Hamazaki K, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):601–6

A case of hepatocellular carcinoma in normal liver with no evidence of HBV or HCV infection. Tanaka T, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1390–4

Inherent increase of apoptosis in liver tumors: implications for carcinogenesis and tumor regression. Grasl-Kraupp B, et al. **Hepatology** 1997 Apr;25(4):906–12

Increasing evidence that hepatitis B virus X gene protein and p53 protein may interact in the pathogenesis of hepatocellular carcinoma. Kew MC. **Hepatology** 1997 Apr; 25(4):1037–8 (16 ref.)

Abnormal intracellular distribution of O6-alkylguanine-DNA-alkyltransferase in hepatitis B cirrhotic human liver: a potential cofactor in the development of hepatocellular carcinoma. Lee SM, et al. **Hepatology** 1996 Nov;24(5):987–90

Hepatitis C virus genotype 1b and risk of hepatocellular carcinoma [letter] Romeo R, et al. **Hepatology** 1997 Oct; 26(4):1077

Epidemiological factors affecting the severity of hepatitis C virus-related liver disease: a French survey of 6,664 patients. The Study Group for the Prevalence and the Epidemiology of Hepatitis C Virus. Roudot-Thoraval F, et al. **Hepatology** 1997 Aug;26(2):485–90

Presence of antibodies to the hepatitis B surface antigen is associated with an excess risk for hepatocellular carcinoma among non-Asians in Los Angeles County, California [published erratum appears in Hepatology 1997 May;25(5):1298] Yu MC, et al. **Hepatology** 1997 Jan; 25(1):226–8

Hepatitis B and C virus, Clonorchis sinensis for the risk of liver cancer: a case-control study in Pusan, Korea. Shin HR, et al. **Int J Epidemiol** 1996 Oct;25(5):933–40

Sequential occurrence of hepatocellular carcinoma following Waldenström's macroglobulinemia: the pathogenetic role of chronic liver disease. Izumi T, et al. **Intern Med** 1996 May;35(5):416–8

Hepatitis C virus infection as a major risk factor for hepatocellular carcinoma. Caselmann WH, et al. **J Hepatol** 1996;24(2 Suppl):61–6 (65 ref.)

Poor association of GBV-C viremia with hepatocellular carcinoma. Kubo S, et al. **J Hepatol** 1997 Jul;27(1):91–5

Hepatitis B virus transcriptional activators: mechanisms and possible role in oncogenesis. Henkler F F, et al. **J Viral Hepat** 1996 May;3(3):109–21 (129 ref.)

The p53 tumour suppressor gene: a model for molecular epidemiology of human cancer. Soussi T. **Mol Med Today** 1996 Jan;2(1):32–7 (43 ref.)

Hepatocellular carcinoma following neonatal hepatitis. Moore L, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug; 17(4):601–10

Hepatitis B and C viruses in hepatitis B surface antigen negative hepatocellular carcinoma patients. Bréchot C, et al. **Princess Takamatsu Symp** 1995;25:199–209 (57 ref.)

Hepatocellular carcinoma and infections with multiple hepatitis viruses. Brunetto MR, et al. **Princess Takamatsu Symp** 1995;25:61–6

Viral co-factors in liver cancer: lessons from hepatitis B virus. Butel JS, et al. **Princess Takamatsu Symp** 1995; 25:185–98 (70 ref.)

Hepatitis C virus in chronic liver disease and hepatocellular carcinoma in Taiwan. Chen DS. **Princess Takamatsu Symp** 1995;25:27–32 (24 ref.)

Hepatitis C virus infection in black patients with hepatocellular carcinoma in southern Africa. Kew MC. **Princess Takamatsu Symp** 1995;25:33–40 (26 ref.)

Clinical pathoepidemiology of hepatocellular carcinoma in Japan. Kobayashi K, et al. **Princess Takamatsu Symp** 1995; 25:67–74

Molecular and genetic epidemiology of hepatocellular carcinoma: studies in China and Senegal. London WT, et al. **Princess Takamatsu Symp** 1995;25:51–60 (22 ref.)

Association of hepatitis C virus and hepatocellular carcinoma in the United States. Reid AE, et al. **Princess Takamatsu Symp** 1995;25:41–9 (29 ref.)

Hepatocarcinogenesis: hepatitis viruses and altered tumor suppressor gene function. Tabor E. **Princess Takamatsu Symp** 1995;25:151–61 (59 ref.)

Target cell populations in virus-associated hepatocarcinogenesis. Thorgeirsson SS. **Princess Takamatsu Symp** 1995;25:163–70

Pathogenesis of hepatocellular carcinoma: sequential cellular, molecular, and metabolic changes. Bannasch P. **Prog Liver Dis** 1996;14:161–97 (254 ref.)

Influence of associated viral hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy. Ko S, et al. **World J Surg** 1996 Oct;20(8):1082–6

[Etiology and epidemiology of hepatocellular carcinoma] Brodanová M. **Vnitr Lek** 1997 Mar;43(3):157–61 (Eng. Abstr.) **(Cze)**

[Hepatocellular carcinoma in asymptomatic primary biliary cirrhosis] Lucidarme D, et al. **Rev Med Interne** 1996; 17(7):568–70 (19 ref.) (Eng. Abstr.) **(Fre)**

[A case of intrahepatic cholangiocellular carcinoma associated with primary biliary cirrhosis] Dohmen K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):361–5 (19 ref.) **(Jpn)**

[Hepatocellular cancer with a background of liver cirrhosis] Zhuravlev VA, et al. **Klin Med (Mosk)** 1996;74(2):2–5 (53 ref.) **(Rus)**

GENETICS

Preferential loss of heterozygosity of chromosome 7 loci in simian virus 40 t/T antigen-induced mouse hepatocellular carcinomas does not involve H-ras mutations. Casola S, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):221–5

Hepatocellular carcinoma associated with alcoholic liver disease: a clinicopathological study and genetic polymorphism of aldehyde dehydrogenase 2. Ohhira M, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):378A–382A

Gene transfer into hepatoma cell lines via the serpin enzyme complex receptor. Ziady AG, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G545–52

DNA sequences essential for transcription of human phospholipid transfer protein gene in HepG2 cells. Tu AY, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):574–7

Inducible nitric oxide synthase expression and erythropoietin production in human hepatocellular carcinoma cells. Yoshioka K, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):702–6

Inhibition of spermidine synthase gene expression by transforming growth factor-beta 1 in hepatoma cells. Nishikawa Y, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):537–43

Relationship between loss of heterozygosity of tumor suppressor genes and histologic differentiation in hepatocellular carcinoma. Piao Z, et al. **Cancer** 1997 Sep 1;80(5):865–72

Establishment and characterization of two cell lines derived from a single hepatocellular carcinoma containing multiploid DNA distribution. Chiu JH, et al. **Cancer Detect Prev** 1996;20(1):43–51

Progressive telomere shortening and telomerase reactivation during hepatocellular carcinogenesis. Miura N, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):56–62

Decreased expression and rare somatic mutation of the CIP1/WAF1 gene in human hepatocellular carcinoma. Furutani M, et al. **Cancer Lett** 1997 Jan 1;111(1–2):191–7

Highly metastatic hepatocellular carcinomas induced in male F344 rats treated with N-nitrosomorpholine in combination with other hepatocarcinogens show a high incidence of p53 gene mutations along with altered mRNA expression of tumor-related genes. Masui T, et al. **Cancer Lett** 1997 Jan 15;112(1):33–45

Frequent loss of chromosome 8p in hepatitis B virus-positive hepatocellular carcinomas from China. Becker SA, et al. **Cancer Res** 1996 Nov 1;56(21):5092–7

Concerted nonsyntenic allelic losses in hyperploid hepatocellular carcinoma as determined by a high-resolution allelotype. Boige V, et al. **Cancer Res** 1997 May 15;57(10):1986–90

Mutations in the BRCA2 gene in hepatocellular carcinomas. Katagiri T, et al. **Cancer Res** 1996 Oct 15;56(20):4575–7

Enhanced coexpression of thioredoxin and high mobility group protein 1 genes in human hepatocellular carcinoma and the possible association with decreased sensitivity to cisplatin. Kawahara N, et al. **Cancer Res** 1996 Dec 1; 56(23):5330–3

Disrupted IGF2 promoter control by silencing of promoter P1 in human hepatocellular carcinoma. Li X, et al. **Cancer Res** 1997 May 15;57(10):2048–54

Wilms' tumor 1-KTS isoforms induce p53-independent apoptosis that can be partially rescued by expression of the epidermal growth factor receptor or the insulin receptor. Menke AL, et al. **Cancer Res** 1997 Apr 1; 57(7):1353–63

p53 abnormalities in hepatocellular carcinoma from United States patients: analysis of all 11 exons. Kazachkov Y, et al. **Carcinogenesis** 1996 Oct;17(10):2207–12

Focal altered compartmentation of repetitive B2 (Alu-like) sequences in rat liver following hepatocarcinogen exposure. Clawson GA, et al. **Cell Growth Differ** 1996 May; 7(5):635–46

Overexpression of c-myc gene without gene amplification in human hepatocellular carcinoma. Wu B, et al. **Chin Med J (Engl)** 1996 Dec;109(12):922–5

Isolation of 45 exon-like fragments from 8p22-->p21.3, a region that is commonly deleted in hepatocellular, colorectal, and non-small cell lung carcinomas. Chinen K, et al. **Cytogenet Cell Genet** 1996;75(2–3):190–6

Hepatocellular carcinoma p53 G > T transversions at codon 249: the fingerprint of aflatoxin exposure? Lasky T, et al. **Environ Health Perspect** 1997 Apr;105(4):392–7 (48 ref.)

Sodium butyrate inhibits the expression of the human lecithin: cholesterol acyltransferase gene in HepG2 cells by a post-transcriptional mechanism. Skretting G, et al. **FEBS Lett** 1997 Mar 3;404(1):105–10

Serial chromosomal change during the progression of hepatocellular carcinoma. Takahashi K, et al. **Fukuoka Igaku Zasshi** 1996 Feb;87(2):45–50

Recurrent chromosomal abnormalities in hepatocellular carcinoma detected by comparative genomic hybridization. Marchio A, et al. **Genes Chromosomes Cancer** 1997 Jan; 18(1):59–65

Novel susceptibility locus for mouse hepatomas: evidence for a conserved tumor suppressor gene. Zenklusen JC, et al. **Genome Res** 1996 Nov;6(11):1070–6

RsaI polymorphism at the cytochrome P4502E1 locus and risk of hepatocellular carcinoma. Ladero JM, et al. **Gut** 1996 Aug;39(2):330–3

Promoter-independent loss of mRNA and protein of the Rb gene in a human hepatocellular carcinoma. Hada H, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1185–9

Does monoclonality mean malignancy? [letter] Aihara T, et al. **Hepatology** 1996 Dec;24(6):1550

Frequency of mutation and deletion of the tumor suppressor gene CDKN2A (MTS1/p16) in hepatocellular carcinoma from an Australian population. Biden K, et al. **Hepatology** 1997 Mar;25(3):593–7

Germ-line mutations of the p16INK4(MTS1) gene occur in a subset of patients with hepatocellular carcinoma. Chaubert P, et al. **Hepatology** 1997 Jun;25(6):1376–81

Inactivation of p16INK4 in hepatocellular carcinoma. Hui AM, et al. **Hepatology** 1996 Sep;24(3):575–9

Targeted nucleotide exchange in the alkaline phosphatase gene of HuH-7 cells mediated by a chimeric RNA/DNA oligonucleotide. Kren BT, et al. **Hepatology** 1997 Jun; 25(6):1462–8

Target gene modulation in hepatocellular carcinomas by decreased DNA-binding of p53 mutations. Kubicka S, et al. **Hepatology** 1997 Apr;25(4):867–73

Expression of urokinase-type plasminogen activator receptor in hepatocellular carcinoma. Morita Y, et al. **Hepatology** 1997 Apr;25(4):856–61

Lack of specificity of albumin-mRNA-positive cells as a marker of circulating hepatoma cells. Müller C, et al. **Hepatology** 1997 Apr;25(4):896–9

Expression of hepatocyte growth factor and its receptor c-met proto-oncogene in hepatocellular carcinoma. Ueki T, et al. **Hepatology** 1997 Apr;25(4):862–6

Vital factors in liver cancer. Rumsby PC. **Hum Exp Toxicol** 1996 Jun;15(6):539–40

Hepatocellular carcinoma cell type specific interaction of P105 and P98 nuclear factors with laminin B1 and B2 genes. Kedar V, et al. **Indian J Exp Biol** 1996 Oct;34(10):933–8

The E-cadherin gene is silenced by CpG methylation in human hepatocellular carcinomas. Kanai Y, et al. **Int J Cancer** 1997 May 2;71(3):355–9

Mutation of p53 gene in hepatocellular carcinoma cell lines with HBX DNA. Kang MS, et al. **Int J Cancer** 1996 Sep 17;67(6):898–902

Frequent rearrangements at minisatellite loci D1S7 (1p33–35), D7S22 (7q36-ter) and D12S11 (12q24.3-ter) in hepatitis B virus-positive hepatocellular carcinomas from Thai patients. Kaplanski C, et al. **Int J Cancer** 1997 Jul 17;72(2):248–54

Lack of association of cytochrome P450 2E1 genetic polymorphisms with the risk of human hepatocellular carcinoma. Lee HS, et al. **Int J Cancer** 1997 May 29; 71(5):737–40

Analysis of the cellular origin of hepatocellular carcinoma by p53 genotype. He B, et al. **J Cancer Res Clin Oncol** 1996;122(12):763–6

Frequent loss in chromosome 8p loci in liver cirrhosis accompanying hepatocellular carcinoma. Kishimoto Y, et al. **J Cancer Res Clin Oncol** 1996;122(10):585–9

Alterations in the tumor suppressor genes p53, RB, p16/MTS1, and p15/MTS2 in human pancreatic cancer and hepatoma cell lines. Kaino M. **J Gastroenterol** 1997 Feb;32(1):40–6

Construction of retroviral vectors to induce strong hepatoma cell-specific expression of cytokine genes. Cao G, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1053–61

DNA ploidy study of resected hepatocellular carcinoma in cirrhotic liver. Balsells J, et al. **J Hepatol** 1996 Dec; 25(6):854–8

Alteration of DNA ploidy and cell nuclearity in human hepatocellular carcinoma associated with HBV infection. Gramantieri L, et al. **J Hepatol** 1996 Dec;25(6):848–53

Expression ratio of hepatocyte nuclear factor-1 to variant hepatocyte nuclear factor-1 in differentiation of hepatocellular carcinoma and hepatoblastoma. Ninomiya T, et al. **J Hepatol** 1996 Oct;25(4):445–53

Numerical chromosome aberrations in hepatocellular carcinoma detected by fluorescence in situ hybridization. Ohsawa N, et al. **J Hepatol** 1996 Nov;25(5):655–62

Interphase cytogenetic analysis reveals numerical chromosome aberrations in large liver cell dysplasia. Terris B, et al. **J Hepatol** 1997 Aug;27(2):313–9

Re: Excess risk of primary liver cancer in patients with diabetes mellitus [letter; comment] Nelson R, et al.

J Natl Cancer Inst 1997 Feb 19;89(4):327–8. Comment on: J Natl Cancer Inst 1996 Oct 16;88(20):1472–7.

Mutational analysis of the p53 and K–ras genes and allelotype study of the Rb–1 gene for investigating the pathogenesis of combined hapatocellular–cholangiocellular carcinomas. Imai Y, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1056–62

Aberrant DNA methylation on chromosome 16 is an early event in hepatocarcinogenesis. Kanai Y, et al. **Jpn J Cancer Res** 1996 Dec;87(12):1210–7

Haemochromatosis gene mutation in hepatocellular cancer [letter] Willis G, et al. **Lancet** 1997 Aug 23;350(9077):565–6

A childhood fibrolamellar hepatocellular carcinoma with increased aromatase activity and a near triploid karyotype. Hany MA, et al. **Med Pediatr Oncol** 1997 Feb;28(2):136–8

Correspondence re: Chieco P, Van Noorden C. Letter to the editor [in re Rubin EM, Derose PB, Cohen C. Comparative image cytometric DNA ploidy of liver cell dysplasia and hepatocellular carcinoma. Mod Pathol 1994;7:677]. Mod Pathol 1996;9:84–5 [letter; comment] Gschwendtner A, et al. **Mod Pathol** 1997 Jan;10(1):84–5. Comment on: Mod Pathol 1996 Jan;9(1):84–6.

Altered transcriptional regulation of the insulin–like growth factor 2 gene in human hepatocellular carcinoma. Uchida K, et al. **Mol Carcinog** 1997 Apr;18(4):193–8

Detection of aneugenic and clastogenic potential of X–rays, directly and indirectly acting chemicals in human hepatoma (Hep G2) and peripheral blood lymphocytes, using the micronucleus assay and fluorescent in situ hybridization with a DNA centromeric probe. Darroudi F, et al. **Mutagenesis** 1996 Sep;11(5):425–33

Inhibition of the genotoxic effects of heterocyclic amines in human derived hepatoma cells by dietary bioantimutagens. Sanyal R, et al. **Mutagenesis** 1997 Jul;12(4):297–303

Accumulation of genetic alterations in a human hepatoma cell line transfected with hepatitis B virus. Livezey KW, et al. **Mutat Res** 1997 Jul 3;377(2):187–98

Cellular and viral trans–acting factors modulate N–myc2 promoter activity in woodchuck liver tumors. Flajolet M, et al. **Oncogene** 1997 Aug 28;15(9):1103–10

Comprehensive allelotyping of human hepatocellular carcinoma. Nagai H, et al. **Oncogene** 1997 Jun 19; 14(24):2927–33

Loss of the tumor suppressor p53 gene at the liver cirrhosis stage in Japanese patients with hepatocellular carcinoma. Kishimoto Y, et al. **Oncology** 1997 Jul–Aug;54(4):304–10

Nucleolar organizer regions in hepatocellular carcinoma related to the cell cycle, cell proliferation and histologic grade. Nagao T, et al. **Pathol Res Pract** 1995 Oct; 191(10):967–72

Increased risk for hepatocellular carcinoma in NAT2–slow acetylators and CYP2D6–rapid metabolizers. Agúndez JA, et al. **Pharmacogenetics** 1996 Dec;6(6):501–12

CYP2A6 gene polymorphism and risk of liver cancer and cirrhosis. Gullstén H, et al. **Pharmacogenetics** 1997 Jun; 7(3):247–50

An intercalation inhibitor altering the target selectivity of DNA damaging agents: synthesis of site–specific aflatoxin B1 adducts in a p53 mutational hotspot. Kobertz WR, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9579–84

Loss of the gene encoding mannose 6–phosphate/insulin–like growth factor II receptor is an early event in liver carcinogenesis. Yamada T, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10351–5

The alteration of cytokeratin 18 molecule and its mRNA expression during tumor transformation in hepatoma. Liu YH, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jun; 96(3):243–53

Characteristic histologic features of human hepatocellular carcinoma with mutant p53 protein. Okuda T, et al. **World J Surg** 1996 Feb;20(2):215–20

[Analysis of DNA methylation pattern of c–myc oncogene in hepatocellular carcinoma] Xiao W, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):501–4 (Eng. Abstr.) **(Chi)**

[Expression of metastasis suppressor gene nm23 in human hepatocellular carcinoma] Chen X, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):76–8 (Eng. Abstr.) **(Chi)**

[Detection of c–Ki–ras oncogene codon 12 point mutations in lung carcinoma, gastric carcinoma and hepatic carcinoma] Cui Q, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):95–8 (Eng. Abstr.) **(Chi)**

[Genetic alterations associated with hepatocellular carcinoma] Boige V, et al. **Gastroenterol Clin Biol** 1997; 21(1):34–44 (132 ref.) **(Fre)**

[DNA content of the tumor cell. A new prognostic parameter in hepatocellular carcinoma? (published erratum appears in Langenbecks Arch Chir 1996;381(6):348)] Böttger T, et al. **Langenbecks Arch Chir** 1996;381(4):232–6 (Eng. Abstr.) **(Ger)**

[Polymorphism of B1–associated DNA fragments from normal and transform ed murine hepatocytes] Aleksandrova SA, et al. **Tsitologiia** 1997;39(2–3):131–7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Immunohistochemical study of hepatocellular carcinoma–specific aldehyde dehydrogenase. Shibuya A, et al. **Alcohol Alcohol** 1994;29 Suppl 1:119–23

Effects of IFN–gamma, TNF–alpha and EGF on the expression of HLA class I antigen and the proliferation of human hepatocellular carcinoma HepG2 cells. Wang D, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):181–8

Vascular adhesion protein–1 and intercellular adhesion molecule–1 mediate T–cell binding to human hepatocellular carcinoma. Yoong KF, et al. **Biochem Soc Trans** 1997 May; 25(2):257S

A comparison of methods for heat–mediated antigen retrieval for immunoelectron microscopy: demonstration of cytokeratin No. 18 in normal and neoplastic hepatocytes. Xiao JC, et al. **Biotech Histochem** 1996 Nov;71(6):278–85

CD4+ hepatic cancer–specific cytotoxic T lymphocytes in patients with hepatocellular carcinoma. Nakao M, et al. **Cell Immunol** 1997 May 1;177(2):176–81

A wild–type p53 cytotoxic T cell epitope is presented by mouse hepatocarcinoma cells. Lacabanne V, et al. **Eur J Immunol** 1996 Nov;26(11):2635–9

Proliferating cell nuclear antigen and grade of malignancy in small hepatocellular carcinoma––evaluation . in US–guided specimens. Hino N, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):245–50

Immune response to cyclin B1 in hepatocellular carcinoma. Covini G, et al. **Hepatology** 1997 Jan;25(1):75–80

Expression of costimulatory molecules B7–1 (CD80) and B7–2 (CD86) on human hepatocellular carcinoma. Tatsumi T, et al. **Hepatology** 1997 May;25(5):1108–14

Hepatocellular carcinoma arising in an adenoma: value of QBend 10 immunostaining in diagnosis of liver cell carcinoma [see comments] Scott FR, et al. **Histopathology** 1996 May;28(5):472–4. Comment in: Histopathology 1996 Dec;29(6):593–4.

Kupffer cell–mediated cytotoxicity against hepatoma cells occurs through production of nitric oxide and adhesion via ICAM–1/CD18. Saito H, et al. **Int Immunol** 1996 Jul; 8(7):1165–72

Activation of cytotoxic and natural killer T–cell system in patients with hepatocellular carcinoma and cirrhosis. Marafin C, et al. **Ital J Gastroenterol** 1996 Dec;28(9):493–8

Natural killing activities in chronic liver diseases and hepatocellular carcinoma. Ono K, et al. **J Clin Immunol** 1996 Jan;16(1):41–5

Effects of ursodeoxycholic acid and chenodeoxycholic acid on major histocompatibility complex class I gene expression. Hirano F, et al. **J Gastroenterol** 1996 Feb; 31(1):55–60

Diversity of antinuclear antibody responses in hepatocellular carcinoma. Covini G, et al. **J Hepatol** 1997 Jun; 26(6):1255–65

Lymphocyte apoptosis induced by CD95 (APO–1/Fas) ligand–expressing tumor cells––a mechanism of immune evasion? [see comments] Strand S, et al. **Nat Med** 1996 Dec;2(12):1361–6. Comment in: Nat Med 1996 Dec;2(12):1306–7. Comment in: Nat Med 1997 Mar;3(3):253–4.

Cytokeratin profiles and mucin secretion in combined hepatocellular–cholangiocarcinoma. A case report. Hauben E, et al. **Pathol Res Pract** 1996 May;192(5):488–91

Seroprevalence of hepatitis B and C viral markers in patients with primary hepatocellular carcinoma in Singapore. Khin LW, et al. **Singapore Med J** 1996 Oct;37(5):492–6

Induction of apoptosis in a human hepatocellular carcinoma cell line by a neutralizing antibody to transforming growth factor–alpha. Seki S, et al. **Virchows Arch** 1997 Jan; 430(1):29–35

METABOLISM

Metabolic characteristics and enflurane defluorination of cytochrome P450–dependent monooxygenases in human hepatocellular carcinoma. Chen TL, et al. **Acta Anaesthesiol Sin** 1997 Mar;35(1):7–14

Effect of ethanol on glycerolipid and fatty acid metabolism in Hep G2 human–hepatoma cells. Angeletti C, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):57–69

HIP/PAP is an adhesive protein expressed in hepatocarcinoma, normal Paneth, and pancreatic cells. Christa L, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G993–1002

Inducible nitric oxide synthase expression and erythropoietin production in human hepatocellular carcinoma cells. Yoshioka K, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):702–6

Binding of wild–type p53 by topoisomerase II and overexpression of topoisomerase II in human hepatocellular carcinoma. Yuwen H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):194–7

Oxidative phosphorylation and F(O)F(1) ATP synthase activity of human hepatocellular carcinoma. Capuano F, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):1013–22

Reduction of LAK–sensitivity and changes in antigen expression on hepatoma cells by sodium butyrate. Tada S, et al. **Cancer Biochem Biophys** 1996 Apr;15(3):177–86

Epidermal growth factor receptor in human hepatocellular carcinoma. Hamazaki K, et al. **Cancer Detect Prev** 1997; 21(4):355–60

Ascitic pseudouridine discriminates between hepatocarcinoma–derived ascites and cirrhotic ascites. Castaldo G, et al. **Clin Chem** 1996 Nov;42(11):1843–6

Glucocorticoids inhibit oncostatin M–induced phospholipase A2 gene expression in human hepatoma cells. Haselmann J, et al. **Cytokine** 1997 Mar;9(3):199–205

Amplification of BCR protein associated with oncogenesis in human hepatocellular carcinoma. Miyazaki Y, et al. **Dig Dis Sci** 1997 May;42(5):927–37

Insulin stimulates protein synthesis of glycogen synthase in rat hepatoma H4 cells associated with acceleration of translation rate. Fujita N, et al. **Endocr J** 1996 Jun; 43(3):313–20

Evidence for insulin–like growth factor (IGF)–independent transcriptional regulation of IGF binding protein–3 by growth hormone in SKHEP–1 human hepatocarcinoma cells. Gucev ZS, et al. **Endocrinology** 1997 Apr; 138(4):1464–70

Identification of naturally occurring dominant negative mutants of thyroid hormone alpha 1 and beta 1 receptors in a human hepatocellular carcinoma cell line [see comments] Lin KH, et al. **Endocrinology** 1996 Oct; 137(10):4073–81. Comment in: Endocrinology 1996 Oct;137(10):4071–2.

Inhibition of zinc–induced metallothionein mRNA accumulation by gonadotropin–releasing hormone in human hepatocarcinoma cell line HepG2. Pati D, et al. **Eur J Biochem** 1996 Nov 15;242(1):36–40

CD18/ICAM–1–dependent nitric oxide production of Kupffer cells as a cause of mitochondrial dysfunction in hepatoma cells: influence of chronic alcohol feeding. Kurose I, et al. **Free Radic Biol Med** 1997;22(1–2):229–39

Chlorambucil–taurocholate is transported by bile acid carriers expressed in human hepatocellular carcinomas. Kullak–Ublick GA, et al. **Gastroenterology** 1997 Oct; 113(4):1295–305

Differential gene expression of the three natriuretic peptides and natriuretic peptide receptor subtypes in human liver [see comments] Vollmar AM, et al. **Gut** 1997 Jan; 40(1):145–50. Comment in: Gut 1997 Jan;40(1):151–2.

Hepatocellular carcinoma as a rare cause of an excessive increase in alpha–fetoprotein during pregnancy. Entezami M, et al. **Gynecol Oncol** 1996 Sep;62(3):405–7

Influence of blood transfusion on postoperative long–term liver function in patients with hepatocellular carcinoma. Itasaka H, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):465–8

Co–expression and regulation of Met and Ron proto–oncogenes in human hepatocellular carcinoma tissues and cell lines. Chen Q, et al. **Hepatology** 1997 Jul; 26(1):59–66

Target gene modulation in hepatocellular carcinomas by decreased DNA–binding of p53 mutations. Kubicka S, et al. **Hepatology** 1997 Apr;25(4):867–73

Hepatocyte growth factor and c–met expression in Long–Evans Cinnamon rats with spontaneous hepatitis and hepatoma. Nakayama N, et al. **Hepatology** 1996 Sep; 24(3):596–602

Cyclosporine inhibits catabolism of low–density lipoproteins in HepG2 cells by about 25%. Rayyes OA, et al. **Hepatology** 1996 Sep;24(3):613–9

Biological effects of human insulin receptor substrate–1 overexpression in hepatocytes. Tanaka S, et al. **Hepatology** 1997 Sep;26(3):598–604

Inhibition of uptake of transferrin–bound iron by human hepatoma cells by nontransferrin–bound iron. Trinder D, et al. **Hepatology** 1997 Sep;26(3):691–8

Expression of hepatocyte growth factor and its receptor, the c–met proto–oncogene, in hepatocellular carcinoma. Ueki T, et al. **Hepatology** 1997 Mar;25(3):619–23

High frequency of the MAGE–1 gene expression in hepatocellular carcinoma. Yamashita N, et al. **Hepatology** 1996 Dec;24(6):1437–40

Tenascin and type IV collagen expression in liver cell dysplasia and in hepatocellular carcinoma. Zhao M, et al. **Histol Histopathol** 1996 Apr;11(2):323–33

QBend 10 (CD34) in the diagnosis of hepatocellular carcinoma [letter; comment] Ruck P, et al. **Histopathology** 1996 Dec;29(6):593–4. Comment on: Histopathology 1996 May;28(5):472–4.

Efficient adenovirus–mediated ectopic gene expression of human lipoprotein lipase in human hepatic (HepG2) cells. Liu G, et al. **Hum Gene Ther** 1997 Jan 20;8(2):205–14

Expression of vascular endothelial growth factor in normal liver and hepatocellular carcinoma: an immunohistochemical study. Chow NH, et al. **Hum Pathol** 1997 Jun;28(6):698–703

Hepatocellular carcinoma cell type specific interaction of P105 and P98 nuclear factors with laminin B1 and B2 genes. Kedar V, et al. **Indian J Exp Biol** 1996 Oct;34(10):933–8

High expression of heparin–binding EGF–like growth factor in rat hepatocarcinogenesis. Miyoshi E, et al. **Int J Cancer** 1996 Oct 9;68(2):215–8

Inhibition of hepatitis–B–virus core promoter by p53: implications for carcinogenesis in hepatocytes. Uchida T, et al. **Int J Cancer** 1996 Sep 17;67(6):892–7

Association of reduced cell adhesion regulator messenger RNA expression with tumor progression in human hepatocellular carcinoma. Yamamoto H, et al. **Int J Cancer** 1997 Jun 20;74(3):251–4

Perioperative pharmacokinetics of piperacillin during liver transplantation. Bourget P, et al. **Int J Clin Pharmacol Ther** 1996 Dec;34(12):550–4

Hepatoid adenocarcinoma of the endometrium associated with alpha–fetoprotein production. Hoshida Y, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):266–9

Big insulin–like growth factor II–producing hepatocellular carcinoma associated with hypoglycemia. Ishida S, et al. **Intern Med** 1995 Dec;34(12):1201–6

Stimulation of apolipoprotein E secretion in human hepatoma Hep G2 cells by a cyclic acylpeptide, N–4909 [letter]

Hiramoto S, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):949–52

Expression of the integrin alpha5 subunit and its mediated cell adhesion in hepatocellular carcinoma. Yao M, et al. **J Cancer Res Clin Oncol** 1997;123(8):435–40

Overexpression of protein kinase FA/GSK-3 alpha (a proline-directed protein kinase) correlates with human hepatoma dedifferentiation/progression. Yang SD, et al. **J Cell Biochem** 1996 May;61(2):238–45

Transfer of free polymannose-type oligosaccharides from the cytosol to lysosomes in cultured human hepatocellular carcinoma HepG2 cells. Saint-Pol A, et al. **J Cell Biol** 1997 Jan 13;136(1):45–59

Sphingolipid transport to the apical plasma membrane domain in human hepatoma cells is controlled by PKC and PKA activity: a correlation with cell polarity in HepG2 cells. Zegers MMP, et al. **J Cell Biol** 1997 Jul 28; 138(2):307–21

Co-localisation of insulin-like growth factor II and the proliferation marker MIB1 in hepatocellular carcinoma cells. Sohda T, et al. **J Clin Pathol** 1997 Feb;50(2):135–7

Immunohistochemical evidence of insulin-like growth factor II in human small hepatocellular carcinoma with hepatitis C virus infection: relationship to fatty change in carcinoma cells. Sohda T, et al. **J Gastroenterol Hepatol** 1997 Mar; 12(3):224–8

Evidence that "myofibroblast-like" cells are the cellular source of capsular collagen in hepatocellular carcinoma. Ooi LP, et al. **J Hepatol** 1997 Apr;26(4):798–807

Expression of Fas and anti-Fas-mediated apoptosis in human hepatocellular carcinoma cell lines. Yano H, et al. **J Hepatol** 1996 Oct;25(4):454–64

Effect of aflatoxin metabolism and DNA adduct formation on hepatocellular carcinoma among chronic hepatitis B carriers in Taiwan. Yu MW, et al. **J Hepatol** 1997 Aug; 27(2):320–30

Characterization and biologic activities of recombinant rat soluble interleukin-6 receptor. Thibault V, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):973–81

Metabolism of hydroperoxy-phospholipids in human hepatoma HepG2 cells. Bao Y, et al. **J Lipid Res** 1996 Nov;37(11):2351–60

Correlation between serum level of, and tissue positivity for, alpha-fetoprotein in hepatocellular carcinoma. Ogawa A, et al. **J Med** 1996;27(1–2):33–40

7S globulin from soybean is metabolized in human cell cultures by a specific uptake and degradation system. Lovati MR, et al. **J Nutr** 1996 Nov;126(11):2831–42

Woodchuck hepatitis virus X protein is present in chronically infected woodchuck liver and woodchuck hepatocellular carcinomas which are permissive for viral replication. Dandri M, et al. **J Virol** 1996 Aug;70(8):5246–54

Increased expression of insulin-like growth factor 2 in hepatocellular carcinoma is primarily regulated at the transcriptional level. Sohda T, et al. **Lab Invest** 1996 Sep; 75(3):307–11

Expression of transforming growth factor alpha and epidermal growth factor receptor in human hepatocellular carcinoma. Kira S, et al. **Liver** 1997 Aug;17(4):177–82

Lamellar fibrosis in the fibrolamellar variant of hepatocellular carcinoma: a role for transforming growth factor beta. Orsatti G, et al. **Liver** 1997 Jun;17(3):152–6

Heterogeneity in androgen receptor levels and growth response to dihydrotestosterone in sublines derived from human hepatocellular carcinoma line (KYN-1). Yu L, et al. **Liver** 1997 Feb;17(1):35–40

Corticotropin increases the receptor-specific uptake of native low-density lipoprotein (LDL)--but not of oxidized LDL and native or oxidized lipoprotein(a) [Lp(a)]--in HEPG2 cells: no evidence for Lp(a) catabolism via the LDL-receptor. Bartens W, et al. **Metabolism** 1997 Jul; 46(7):726–9

The expression of cytokeratins 7, 19, and 20 in primary and metastatic carcinomas of the liver. Maeda T, et al. **Mod Pathol** 1996 Sep;9(9):901–9

Calcitonin mRNA is produced in liver by two different splicing pathways. Bracq S, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):111–5

Inflammatory cytokines and type I 5'-deiodinase expression in phi1 rat liver cells. Davies PH, et al. **Mol Cell Endocrinol** 1997 May 16;129(2):191–8

Aberrant metabolism of retinoid X receptor proteins in human hepatocellular carcinoma. Matsushima-Nishiwaki R, et al. **Mol Cell Endocrinol** 1996 Aug 9;121(2):179–90

Induction of vascular endothelial growth factor by nitric oxide in human glioblastoma and hepatocellular carcinoma cells. Chin K, et al. **Oncogene** 1997 Jul 24;15(4):437–42

Inverse relationship between P-glycoprotein expression and its proliferative activity in hepatocellular carcinoma. Takanishi K, et al. **Oncology** 1997 May-Jun;54(3):231–7

Enhanced CD34 expression of sinusoid-like vascular endothelial cells in hepatocellular carcinoma. Cui S, et al. **Pathol Int** 1996 Oct;46(10):751–6

Expression of apoptosis, proliferating cell nuclear antigen, and apoptosis-related antigens (bcl-2, c-myc, Fas, Lewis(y) and p53) in human cholangiocarcinomas and hepatocellular carcinomas. Terada T, et al. **Pathol Int** 1996 Oct;46(10):764–70

p53 expression in hepatocellular carcinoma in Greece. Correlation with epidemiological and histopathological data. Skopelitou A, et al. **Pathol Res Pract** 1996 Nov; 192(11):1100–6

Triflavin, an Arg-Gly-Asp-containing peptide, inhibits the adhesion of tumor cells to matrix proteins via binding to multiple integrin receptors expressed on human hepatoma cells. Sheu JR, et al. **Proc Soc Exp Biol Med** 1996 Oct; 213(1):71–9

Low density lipoprotein catabolism is enhanced by the cleaved form of alpha-1-antitrypsin. Janciauskiene S, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):325–35

Female sex hormone receptor status in advanced hepatocellular carcinoma and outcome after surgical resection. Jonas S, et al. **Surgery** 1997 Apr;121(4):456–61

Increased resistance to oxidative stress in transfected cultured cells overexpressing glutathione S-transferase mGSTA4-4. Zimniak L, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):221–9

Cytotoxicity and biotransformation inducing activity of rodent beddings: a global survey using the Hepa-1 assay. Pelkonen KH, et al. **Toxicology** 1997 Sep 26;122(1–2):73–80

[Detection of stromelysin mRNA expression in human hepatocellular carcinoma by in situ hybridization] Fang S, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr; 25(2):73–5 (Eng. Abstr.) **(Chi)**

[A case of IGF-II producing liver hepatocellular carcinoma with hypoglycemia] Inoue R, et al. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1033–5 **(Jpn)**

[Affinity of 3-beta-(2-hydroxyethoxy)-5-alpha-cholest-8(14)-ene-15-one to oxysterol binding protein and its metabolism in HepG2 hepatoma cells] Misharin AIu, et al. **Bioorg Khim** 1997 Apr;23(4):297–303 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Helicobacter hepaticus, a recently recognized bacterial pathogen, associated with chronic hepatitis and hepatocellular neoplasia in laboratory mice. Rice JM. **Emerg Infect Dis** 1995 Oct-Dec;1(4):129–31

Campylobacter fetus subsp. fetus cholecystitis in a patient with advanced hepatocellular carcinoma. Takatsu M, et al. **Scand J Infect Dis** 1997;29(2):197–8

MORTALITY

Better survival in women with resected hepatocellular carcinoma is not related to tumor proliferation or expression of hormone receptors. Ng IO, et al. **Am J Gastroenterol** 1997 Aug;92(8):1355–8

Management of hepatocellular carcinoma: long-term outcome in 2639 cases. Zhou XD, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:9–16 (26 ref.)

Prognosis of hepatocellular carcinoma patients with extrahepatic metastases. Okusaka T, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):251–7

The prognosis of patients with hepatocellular carcinoma of multicentric origin. Okusaka T, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):919–25

Extension of surgical indication for advanced hepatocellular carcinoma: is it possible to prolong life span or improve quality of life? Tanaka A, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1172–81

Cirrhosis, hepatocellular carcinoma, and survival. Craig JR. **Hepatology** 1997 Sep;26(3):798–9

The angiogenesis inhibitor TNP-470 (AGM-1470) improves long-term survival of rats with liver metastasis. Ahmed MH, et al. **J Surg Res** 1996 Jul 15;64(1):35–41

Comparison of clinical features and survival in patients with hepatitis B and C virus-related hepatocellular carcinoma. Tanizaki H, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):67–70

PATHOLOGY

Fine needle aspiration biopsy of hepatocellular carcinoma resembling neuroendocrine tumor. A case report. Piatti B, et al. **Acta Cytol** 1997 Mar-Apr;41(2):583–6

Cytomorphologic and DNA cytometric features of hepatocellular carcinoma in fine needle aspirates. Sampatanukul P, et al. **Acta Cytol** 1997 Mar-Apr; 41(2):435–42

Apoptosis and cytologic differentiation in hepatocellular carcinoma on fine needle aspiration samples. Zeppa P, et al. **Acta Cytol** 1996 Sep-Oct;40(5):861–6

Vimentin-positive spider-shaped Kupffer cells. A new clue to cytologic diagnosis of primary and metastatic hepatocellular carcinoma by fine-needle aspiration biopsy. Wu HH, et al. **Am J Clin Pathol** 1996 Oct;106(4):517–21

Cellular distribution of 92-kd type IV collagenase/gelatinase B in human hepatocellular carcinoma. Ashida K, et al. **Am J Pathol** 1996 Dec;149(6):1803–11

Hepatocellular neoplasms induced by low-number pancreatic islet transplants in streptozotocin diabetic rats. Dombrowski F, et al. **Am J Pathol** 1997 Mar; 150(3):1071–87

Induction of hepatoma cell apoptosis by c-myc requires zinc and occurs in the absence of DNA fragmentation. Xu J, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G60–70

Hepatoid adenocarcinoma of the lung: report of a case of an unusual alpha-fetoprotein-producing lung tumor. Arnould L, et al. **Am J Surg Pathol** 1997 Sep;21(9):1113–8

Cytogenetic analysis of BC2, a new human hepatoma cell line, by fluorescent in situ hybridization. Ingster O, et al. **Ann Genet** 1996;39(3):123–8

Activation of human Kupffer cells by thymostimulin (TP-1) to produce cytotoxicity against human hepatocellular cancer. Balch G, et al. **Ann Surg Oncol** 1997 Mar; 4(2):149–55

A new synthetic lipid A analog, ONO-4007, stimulates the production of tumor necrosis factor-alpha in tumor tissues, resulting in the rejection of transplanted rat hepatoma cells. Kuramitsu Y, et al. **Anticancer Drugs** 1997 Jun;8(5):500–8

Delivery of oligoribonucleotides to human hepatoma cells using cationic lipid particles conjugated to ferric protoporphyrin IX (heme). Takle GB, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):177–85

Yolk sac tumor of the liver combined with hepatocellular carcinoma. Morinaga S, et al. **Arch Pathol Lab Med** 1996 Jul;120(7):687–90 (20 ref.)

Detection of hepatitis C virus RNA sequences in hepatocellular carcinoma and its precursors by microdissection polymerase chain reaction. Saito K, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):400–3

Kinetics of low-density lipoprotein receptor activity in Hep-G2 cells: derivation and validation of a Briggs-Haldane-based kinetic model for evaluating receptor-mediated endocytotic processes in which receptors recycle. Harwood Jr HJ, et al. **Biochem J** 1997 May 1;323 (Pt 3):649–59

Heterogeneity of DNA content in multiple synchronous hepatocellular carcinomas. Hui AM, et al. **Br J Cancer** 1997;76(3):335–9

Semiquantification of circulating hepatocellular carcinoma cells by reverse transcriptase polymerase chain reaction. Wong IH, et al. **Br J Cancer** 1997;76(5):628–33

Surgical treatment of patients with mixed hepatocellular carcinoma and cholangiocarcinoma [letter; comment] Maeda T, et al. **Cancer** 1997 Aug 1;80(3):514–6. Comment on: Cancer 1996 Oct 15;78(8):1671–6.

Flow cytometric DNA analysis of cirrhotic liver cells in patients with hepatocellular carcinoma can provide a new prognostic factor. Ruà S, et al. **Cancer** 1996 Sep 15; 78(6):1195–202

Establishment and characterization of two cell lines derived from a single hepatocellular carcinoma containing multiploid DNA distribution. Chiu JH, et al. **Cancer Detect Prev** 1996;20(1):43–51

Hepatocellular carcinoma in patients from northern Sweden with acute intermittent porphyria: morphology and mutations. Bjersing L, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):393–7

Apoptosis induced by retinoic acid in Hep 3B cells in vitro. Kim DG, et al. **Cancer Lett** 1996 Oct 1;107(1):149–59

Reversing effect of dimethyl-4,4'-dimethoxy-5,6,5', 6'-dimethylenedioxybiphenyl-2,2'-dicarboxylate (DDB) on the phenotypes of human hepatocarcinoma cells line. Liu Z, et al. **Cancer Lett** 1996 Nov 12;108(1):67–72

Norcantharidin inhibits growth of human HepG2 cell-transplanted tumor in nude mice and prolongs host survival. Yang EB, et al. **Cancer Lett** 1997 Jul 15; 117(1):93–8

Oxygen-dependent regulation of energy metabolism in ascites tumor cells by nitric oxide. Nishikawa M, et al. **Cancer Res** 1996 Oct 1;56(19):4535–40

Hepatocellular carcinoma with intraatrial extension. Boiskin I, et al. **Cardiovasc Intervent Radiol** 1997 Jul-Aug; 20(4):324–7

Antitumor activity of thevetoside in vitro. Zhang X, et al. **Chin Med J (Engl)** 1996 Jun;109(6):478–81

Clinicopathological comparison of resectable hepatocellular carcinoma between the young and the elderly patients. Ou LH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jul; 60(1):40–7

Effect of monoclonal antibodies on the entry and development of Plasmodium vivax sporozoite in cultured cells. Luo S, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1995;13(4):284–9

Image cytometric comparison of proliferating cell nuclear antigen and MIB-1 staining in hepatocellular carcinoma and adjacent liver tissue. Wells SJ, et al. **Cytometry** 1996 Sep 15;26(3):198–203

Biliary stricture due to hepatocellular carcinoma: diagnosis by bile duct brushing cytology. Dusenbery D. **Diagn Cytopathol** 1997 Jan;16(1):55–6

FNA biopsy diagnosis of HCC [letter; comment] Kung IT, et al. **Diagn Cytopathol** 1997 Jun;16(6):551. Comment on: Diagn Cytopathol 1995 May;12(3):208–14.

Hepatocellular carcinoma: needle biopsy findings in 74 cases. Salomao DR, et al. **Diagn Cytopathol** 1997 Jan;16(1):8–13

Cytological vs microhistological diagnosis of hepatocellular carcinoma: comparative accuracies in the same fine-needle biopsy specimen. Caturelli E, et al. **Dig Dis Sci** 1996 Dec; 41(12):2326–31

Early detection of recurrent hepatocellular carcinoma by endosonographically guided fine-needle aspiration biopsy. Bogstad J, et al. **Endoscopy** 1997 May;29(4):322–4

Complete regression of established murine hepatocellular carcinoma by in vivo tumor necrosis factor alpha gene transfer [see comments] Cao G, et al. **Gastroenterology** 1997 Feb;112(2):501–10. Comment in: Gastroenterology 1997 Feb;112(2):656–9.

Relation of enhanced secretion of active matrix metalloproteinases with tumor spread in human hepatocellular carcinoma. Yamamoto H, et al. **Gastroenterology** 1997 Apr;112(4):1290–6

Collagen type III and type IV detection in and around human hepatocellular carcinoma. Gulubova MV. **Gen Diagn Pathol** 1997 Feb;142(3–4):155–63

Combined ovarian serous papillary and hepatoid carcinoma. Scurry JP, et al. **Gynecol Oncol** 1996 Oct;63(1):138–42
Small hepatic nodules surrounding hepatocellular carcinoma. Ezaki T, et al. **Hepatogastroenterology** 1996 Sep–Oct; 43(11):1182–4
Histological analysis of hepatocellular carcinoma treated by intraarterial combined immunochemotherapy. Oka M, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):561–6
Hepatoid adenocarcinoma of the stomach: a case report. Sugawara Y, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):995–9
Management of malignant tumor with intracaval extension by selective clamping of IVC. Togo S, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1165–71
Hepatic recurrence of cholangiolocellular carcinoma: report of a case. Yamamoto M, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1046–50
Clinicopathologic features of early hepatocellular carcinoma. Yamasaki T, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):926–31
Small hepatocellular carcinomas in cirrhotic explant livers: identification by macroscopic examination and lipiodol localization. Bhattacharya S, et al. **Hepatology** 1997 Mar; 25(3):613–8
Inherent increase of apoptosis in liver tumors: implications for carcinogenesis and tumor regression. Grasl-Kraupp B, et al. **Hepatology** 1997 Apr;25(4):906–12
Difference in gene expression for matrix metalloproteinase-1 between early and advanced hepatocellular carcinomas. Okazaki I, et al. **Hepatology** 1997 Mar;25(3):580–4
E-cadherin is involved in the intrahepatic metastasis of hepatocellular carcinoma. Osada T, et al. **Hepatology** 1996 Dec;24(6):1460–7
Pathomorphological study of Kupffer cells in hepatocellular carcinoma and hyperplastic nodular lesions in the liver. Tanaka M, et al. **Hepatology** 1996 Oct;24(4):807–12
Partial nodular transformation of liver developing around intrahepatic portal venous emboli of hepatocellular carcinoma. Hoso M, et al. **Histopathology** 1996 Dec; 29(6):580–2
Gastrointestinal hepatoid adenocarcinoma: venous permeation and mimicry of hepatocellular carcinoma, a report of four cases. Ishikura H, et al. **Histopathology** 1997 Jul;31(1):47–54 (28 ref.)
Liver cell atypias: a comparative study in cirrhosis with and without hepatocellular carcinoma. Ojanguren I, et al. **Histopathology** 1997 Feb;30(2):106–12
Small cell carcinoma of the liver: a hitherto unreported variant of hepatocellular carcinoma. Zanconati F, et al. **Histopathology** 1996 Nov;29(5):449–53
Fibrolamellar hepatocellular carcinoma "it is not a ordinary case for Mediterranean countries". Arslan I, et al. **HPB Surg** 1995;9(1):51–3
Are hepatic adenomas premalignant? Nagorney DM. **HPB Surg** 1996;10(1):59–61
Pathologic and radiographic studies of intrahepatic metastasis in hepatocellular carcinoma; the role of efferent vessels. Toyosaka A, et al. **HPB Surg** 1996;10(2):97–103; discussion 103–4
Small cell undifferentiated carcinoma of the colon associated with hepatocellular carcinoma in an immunodeficient patient. Zirkin HJ, et al. **Hum Pathol** 1996 Sep;27(9):992–6
Icterus due to tumor emboli—a rare presentation of hepatoma. Sastry RA, et al. **Indian J Gastroenterol** 1996 Jan;15(1):24–5
Decreased expression of biliary glycoprotein in hepatocellular carcinomas. Tanaka K, et al. **Int J Cancer** 1997 Feb 20;74(1):15–9
Hepatoid adenocarcinoma of the endometrium associated with alpha-fetoprotein production. Hoshida Y, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):266–9
Hepatocellular carcinoma of the intrabiliary growth type. Ikeda Y, et al. **Int Surg** 1997 Jan–Mar;82(1):76–8
Effect of alcohol on tumor growth of hepatocellular carcinoma with type C cirrhosis. Matsuhashi T, et al. **Intern Med** 1996 Jun;35(6):443–8
Rupture of metastatic nodule on the peritoneal surface secondary to hepatocellular carcinoma. Okano J, et al. **Intern Med** 1996 Oct;35(10):783–4
Analysis of the cellular origin of hepatocellular carcinoma by p53 genotype. He B, et al. **J Cancer Res Clin Oncol** 1996;122(12):763–6
Expression of the integrin alpha5 subunit and its mediated cell adhesion in hepatocellular carcinoma. Yao M, et al. **J Cancer Res Clin Oncol** 1997;123(8):435–40
A carboxy-terminal truncated insulin receptor substrate-1 dominant negative protein reverses the human hepatocellular carcinoma malignant phenotype. Tanaka S, et al. **J Clin Invest** 1996 Nov 1;98(9):2100–8
Apoptosis in human hepatocellular carcinoma and in liver cell dysplasia is correlated with p53 protein immunoreactivity. Zhao M, et al. **J Clin Pathol** 1997 May; 50(5):394–400
Hepatocellular carcinoma with sarcomatous change arising in primary biliary cirrhosis. Komada N, et al. **J Gastroenterol** 1997 Feb;32(1):95–101
Autopsy case of colocalized tumors of hepatocellular carcinoma and malignant lymphoma. Shikuwa S, et al. **J Gastroenterol** 1996 Feb;31(1):129–32
Wild-type p53 gene-induced morphological changes and growth suppression in hepatoma cells. Terai S, et al. **J Gastroenterol** 1997 Jun;32(3):330–7
Case report: gastrointestinal bleeding from a hepatocellular carcinoma invading the transverse colon. Hashimoto M, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):765–7
Case report: fibrolamellar hepatocellular carcinoma in a Japanese woman: a case report and review of Japanese cases. Hoshino H, et al. **J Gastroenterol Hepatol** 1996 Jun; 11(6):551–5 (25 ref.)
Clinicopathological study of minimum-sized hepatocellular carcinoma: an approach to the definition of early hepatocellular carcinoma. Kim SR, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):498–508
Proliferative activity in intrahepatic metastasis of hepatocellular carcinoma. Maeda T, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):752–7
A clinicopathological study on combined hepatocellular and cholangiocarcinoma. Taguchi J, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):758–64
Ultrasound-guided biopsy for the diagnosis of hepatocellular carcinoma--a study based on 420 patients [letter; comment] de Sio I, et al. **J Hepatol** 1997 May;26(5):1155–6. Comment on: J Hepatol 1996 Sep;25(3):334–8.
TGF-beta-mediated hepatocellular apoptosis by rat and human hepatoma cells and primary rat hepatocytes. Gressner AM, et al. **J Hepatol** 1997 May;26(5):1079–92
Ultrasound-guided cutting biopsy for the diagnosis of hepatocellular carcinoma--a study based on 420 patients [see comments] Huang GT, et al. **J Hepatol** 1996 Sep; 25(3):334–8. Comment in: J Hepatol 1997 May;26(5):1155–6.
Comparison of clinico-pathological features in hepatitis B virus-associated hepatocellular carcinoma with or without hepatitis D virus superinfection. Huo TI, et al. **J Hepatol** 1996 Oct;25(4):439–44
HCV genotypes in patients with liver disease of different stages and severity. Mangia A, et al. **J Hepatol** 1997 Jun; 26(6):1173–8
Inhibition of growth and induction of TGF-beta 1 in human hepatocellular carcinoma with androgen receptor by cyproterone acetate in male nude mice. Nagasue N, et al. **J Hepatol** 1996 Oct;25(4):554–62
Increased ubiquitin immunoreactivity in hepatocellular carcinomas and precancerous lesions of the liver. Osada T, et al. **J Hepatol** 1997 Jun;26(6):1266–73
Interphase cytogenetic analysis reveals numerical chromosome aberrations in large liver cell dysplasia. Terris B, et al. **J Hepatol** 1997 Aug;27(2):313–9
In hepatocellular carcinoma AgNOR protein expression correlates with tumour mass doubling time. Trerè D, et al. **J Hepatol** 1996 Jan;24(1):60–5
Spontaneous regression of hepatocellular carcinoma. van Halteren HK, et al. **J Hepatol** 1997 Jul;27(1):211–5
A human combined hepatocellular and cholangiocarcinoma cell line (KMCH-2) that shows the features of hepatocellular carcinoma or cholangiocarcinoma under different growth conditions. Yano H, et al. **J Hepatol** 1996 Apr;24(4):413–22
Effects of castration and androgen replacement on tumour growth of human hepatocellular carcinoma in nude mice. Yu L, et al. **J Hepatol** 1996 Sep;25(3):362–9
Hepatocellular carcinoma exhibiting a concentric structure of different histologic grades: evaluation by chondroitin sulfate iron colloid-enhanced MR imaging. Kamba M, et al. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):406–8
7S globulin from soybean is metabolized in human cell cultures by a specific uptake and degradation system. Lovati MR, et al. **J Nutr** 1996 Nov;126(11):2831–42
Extrahepatic bile duct hepatocellular carcinoma without primary hepatic parenchymal lesions--a case report. Cho HG, et al. **Korean J Intern Med** 1996 Jun;11(2):169–74
Stromal and blood vessel wall invasion in well-differentiated hepatocellular carcinoma. Nakano M, et al. **Liver** 1997 Feb; 17(1):41–6
A combined hepatocellular/cholangiocellular carcinoma with sarcomatoid features. Papotti M, et al. **Liver** 1997 Feb; 17(1):47–52
E.M. Rubin, P.B. DeRose, and C. Cohen. Comparative image cytometric DNA ploidy of liver cell dysplasia and hepatocellular carcinoma. Mod Pathol 7:677, 1994 [letter] [see comments] Chieco P, et al. **Mod Pathol** 1996 Jan; 9(1):84–6. Comment in: Mod Pathol 1997 Jan;10(1):84–5.
Percutaneous biopsy of operable liver lesions: is it necessary or advisable? Jourdan JL, et al. **N Z Med J** 1996 Dec 13; 109(1035):469–70
Characteristics of anti-HCV antibody-positive patients with hepatocellular carcinoma on chronic hemodialysis: recommendation of periodic ultrasonography for early detection. Sakai Y, et al. **Nephron** 1996;74(2):386–9
Resistance to p53-mediated growth arrest and apoptosis in Hep 3B hepatoma cells. Friedman SL, et al. **Oncogene** 1997 Jul 3;15(1):63–70
Inverse relationship between P-glycoprotein expression and its proliferative activity in hepatocellular carcinoma. Takanishi K, et al. **Oncology** 1997 May-Jun;54(3):231–7
Growth kinetic study of human hepatocellular carcinoma using proliferating cell nuclear antigen and Lewis Y antigen: their correlation with transforming growth factor-alpha and beta 1. Yamaguchi M, et al. **Oncology** 1997 May-Jun;54(3):245–51
Oncocytic hepatocellular carcinoma with numerous globular hyaline bodies. Fukunaga N, et al. **Pathol Int** 1996 Apr; 46(4):286–91
Regenerative pattern of liver cells in primary biliary cirrhosis, alcoholic cirrhosis, posthepatitic cirrhosis (HBV-related) and hepatocellular carcinoma: comparative analysis by computerized morphometry. Rahman SM, et al. **Pathol Int** 1996 Apr;46(4):267–73
Sarcomatoid hepatocellular carcinoma with osteoclast-like giant cells: case report and immunohistochemical observations. Sasaki A, et al. **Pathol Int** 1997 May; 47(5):318–24 (30 ref.)
Difference in the three-dimensional structure of the sinusoids between hepatocellular carcinoma and cirrhotic liver. Shimizu H, et al. **Pathol Int** 1996 Dec;46(12):992–6
Early hepatocellular carcinoma macroscopically resembling adenomatous hyperplasia: pathological resemblance to carcinoma-in-situ. Wakasa K, et al. **Pathol Int** 1997 Jan; 47(1):54–9
Immunohistochemistry and angiography in adenomatous hyperplasia and small hepatocellular carcinomas. Yamamoto T, et al. **Pathol Int** 1996 May;46(5):364–71
Clinicopathologic study on clear cell hepatocellular carcinoma. Yang SH, et al. **Pathol Int** 1996 Jul;46(7):503–9
Nucleolar organizer regions in hepatocellular carcinoma related to the cell cycle, cell proliferation and histologic grade. Nagao T, et al. **Pathol Res Pract** 1995 Oct; 191(10):967–72
Pathomorphologic comparison of hepatitis C virus-related and hepatitis B virus-related cirrhosis bearing hepatocellular carcinoma. Kojiro M, et al. **Princess Takamatsu Symp** 1995;25:179–84
Hypoxia-inducible factor-1 modulates gene expression in solid tumors and influences both angiogenesis and tumor growth. Maxwell PH, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8104–9
Cellular DNA content and histopathological analysis in hepatocellular carcinoma with multiple nodules. Ichikawa N, et al. **Surg Today** 1997;27(6):483–90
Differentiation of multifocal and multicentric hepatocellular carcinomas by DNA fingerprint analysis: case report. Aihara T, et al. **Surgery** 1997 Jun;121(6):711–4
Cytotoxicity and biotransformation inducing activity of rodent beddings: a global survey using the Hepa-1 assay. Pelkonen KH, et al. **Toxicology** 1997 Sep 26;122(1-2):73–80
Characteristic histologic features of human hepatocellular carcinoma with mutant p53 protein. Okuda T, et al. **World J Surg** 1996 Feb;20(2):215–20
Triton X-100 induces apoptosis in human hepatoma cell lines. Ahn JM, et al. **Yonsei Med J** 1997 Feb;38(1):52–9
[The effect of antisense H-ras on growth and metastasis of a high metastatic tumor model of human hepatoma in nude mice LCI-D20] Liao Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):650–3 (Eng. Abstr.) **(Chi)**
[The internalization of immunotargeting drugs for hepatocellar carcinoma and its significance] Sui Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Nov;76(11):845–7 (Eng. Abstr.) **(Chi)**
[Tumor seeding of the abdominal wall after fine needle aspiration of a hepatocellular carcinoma (letter)] Dangou JM, et al. **Ann Pathol** 1996;16(3):227–8 **(Fre)**
[Prognostic significance of estrogen receptor status in hepatocellular carcinomas] Jonas S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:329–33 (Eng. Abstr.) **(Ger)**
[Clinicopathological study on early recurrent hepatoma and its treatment] Nakanishi K, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:269–72 (Eng. Abstr.) **(Jpn)**
[Chemosensitivity test on hepatocellular carcinoma (HCC) and drug resistance] Ishimura H. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):689–98 (Eng. Abstr.) **(Jpn)**
[Establishment of an estrogen receptor positive 3'-methyl-4-dimethylaminoazobenzene induced hepatoma cell line of rat and investigation of hormonal therapy] Kameda H. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):711–26 (Eng. Abstr.) **(Jpn)**
[Death due to cold of a 63-year-old male associated with hepatocellular carcinoma--bibliographic consideration on alcohol metabolism of the patients with liver dysfunction] Kondo T, et al. **Nippon Hoigaku Zasshi** 1996 Aug; 50(4):276–80 (Eng. Abstr.) **(Jpn)**
[Laminin-dependent growth arrest of human hepatic carcinoma cell line, HuH-7, in association with expression of p21/WAF-1 protein] Arita A, et al. **Nippon Ika Daigaku Zasshi** 1997 Apr;64(2):147–53 (Eng. Abstr.) **(Jpn)**
[A case of liver metastasis from so-called hepatoid adenocarcinoma of stomach with lipiodol accumulation] Ueda H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb; 93(2):120–5 (14 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Factors regulating tumor pressure in hepatocellular carcinoma and implications for tumor spread. Tanaka T, et al. **Hepatology** 1997 Aug;26(2):283–7
Changes in hepatic hemodynamics due to primary liver tumours. Jakab F, et al. **HPB Surg** 1996;9(4):245–8
Alpha feto-protein and albumin in ascitic fluid in hepatocellular carcinoma patients. Sadek A, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):455–64
Contribution of primary cultures of adult human hepatocytes to the pathophysiology of hepatocellular carcinoma. Blanc P, et al. **J Hepatol** 1996 Nov;25(5):663–9

Arteriovenous shunts in patients with hepatic tumors. Ho S, et al. **J Nucl Med** 1997 Aug;38(8):1201–5

PREVENTION & CONTROL

Detection of alpha-fetoprotein and hepatitis-B surface antigen in blood spotted on filter paper: use as a screen for hepatocellular carcinoma in Alaska Natives. Parkinson AJ, et al. **Arctic Med Res** 1996 Jul;55(3):123–8

The long term efficacy of glycyrrhizin in chronic hepatitis C patients. Arase Y, et al. **Cancer** 1997 Apr 15; 79(8):1494–500

Oltipraz chemoprevention trial in Qidong, People's Republic of China: study design and clinical outcomes. Jacobson LP, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr; 6(4):257–65

Prevention of liver cancer and cirrhosis by vaccines. Prince AM. **Clin Lab Med** 1996 Jun;16(2):493–505 (80 ref.)

Vanadium-mediated chemoprotection against chemical hepatocarcinogenesis in rats: haematological and histological characteristics. Bishayee A, et al. **Eur J Cancer Prev** 1997 Feb;6(1):58–70

Can interferon prevent hepatocellular carcinoma in hepatitis C virus-induced cirrhosis? Grimm I, et al. **Gastroenterology** 1996 Jun;110(6):2019–21

Can a vitamin prevent hepatocellular carcinoma? Venook AP. **Hepatology** 1997 Jan;25(1):249–50

Rapid production of interleukin-2-secreting tumor cells by herpes simplex virus-mediated gene transfer: implications for autologous vaccine production. Tung C, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2217–24

Chemoprevention of primary liver cancer. Buiatti E. **IARC Sci Publ** 1996;(136):41–3 (18 ref.)

Risk factors and the effect of interferon therapy in the development of hepatocellular carcinoma: a multivariate analysis in 343 patients. Kuwana K, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):149–55

Effectiveness of interferon alfa on incidence of hepatocellular carcinoma and decompensation in cirrhosis type C. European Concerted Action on Viral Hepatitis (EUROHEP). Fattovich G, et al. **J Hepatol** 1997 Jul; 27(1):201–5

Suppression of human hepatoma in mice through adoptive transfer of immunity to the hepatitis B surface antigen. Ilan Y, et al. **J Hepatol** 1997 Jul;27(1):170–5

Alpha interferon treatment may prevent hepatocellular carcinoma in HCV-related liver cirrhosis. Mazzella G, et al. **J Hepatol** 1996 Feb;24(2):141–7

Prevention of primary liver cancer by immunization [editorial; comment] Zuckerman AJ. **N Engl J Med** 1997 Jun 26;336(26):1906–7. Comment on: N Engl J Med 1997 Jun 26;336(26):1855–9.

Effective tumor vaccines generated by in vitro modification of tumor cells with cytokines and bispecific monoclonal antibodies. Guo YJ, et al. **Nat Med** 1997 Apr;3(4):451–5

Hepatitis B vaccination and hepatocellular carcinoma in Taiwan. Lee CL, et al. **Pediatrics** 1997 Mar;99(3):351–3

Use of novel beta-L(-)-nucleoside analogues for treatment and prevention of chronic hepatitis B virus infection and hepatocellular carcinoma. Bridges EG, et al. **Prog Liver Dis** 1995;13:231–45 (70 ref.)

The current state of the prevention of HBV infection, the carrier state and hepatocellular carcinoma. Blumberg BS. **Res Virol** 1997 Mar-Apr;148(2):91–4

The prevention of cirrhosis and hepatocellular carcinoma. Da Villa G. **Res Virol** 1997 Mar-Apr;148(2):89

[Towards a chemoprevention of hepatocellular carcinoma? (editorial)] Ganne-Carrié N, et al. **Gastroenterol Clin Biol** 1997;21(6-7):447–9 (31 ref.) **(Fre)**

[Early detection of hepatobiliary cancer in mass health screening] Kiyosawa K, et al. **Nippon Rinsho** 1996 May; 54(5):1425–30 (12 ref.) (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Spiral CT for the detection of hepatocellular carcinomas:relative value of arterial- and late-phase scanning. Choi BI, et al. **Abdom Imaging** 1996 Sep–Oct; 21(5):440–4

Lipiodol-CT for hepatocellular carcinoma [editorial; comment] Itai Y. **Abdom Imaging** 1997 May–Jun; 22(3):259–60. Comment on: Abdom Imaging 1997 May–Jun;22(3):253–8.

Demonstration of false-negative findings on CT hepatic angiography. Kanematsu M, et al. **Abdom Imaging** 1997 Jan–Feb;22(1):52–4

Intrahepatic metastatic nodules of hepatocellular carcinoma detected at lipiodol-CT: imaging-pathologic correlation [see comments] Lencioni R, et al. **Abdom Imaging** 1997 May–Jun;22(3):253–8. Comment in: Abdom Imaging 1997 May–Jun;22(3):259–60.

Fine needle aspiration biopsy of hepatocellular carcinoma resembling neuroendocrine tumor. A case report. Piatti B, et al. **Acta Cytol** 1997 Mar-Apr;41(2):583–6

CT arterial portography and CT arteriography with a triple-lumen balloon catheter. Murakami T, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):553–7

Detection of hypervascular nodular hepatocellular carcinomas: value of triphasic helical CT compared with iodized-oil CT. Choi BI, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):219–24

Detection and characterization of hepatic tumors: value of combined helical CT hepatic arteriography and CT during arterial portography. Kanematsu M, et al. **AJR Am J Roentgenol** 1997 May;168(5):1193–8

Hepatic lesion characterization in cirrhosis: significance of arterial hypervascularity on dual-phase helical CT. Lee HM, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):125–30

Helical CT during arterial portography and hepatic arteriography for detecting hypervascular hepatocellular carcinoma. Murakami T, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):131–5

Technical report: coaxial catheter: a new technique for sequential spiral CT during arterial portography and hepatic arteriography. Abe O, et al. **Clin Radiol** 1997 May; 52(5):388–91

Periprosthetic metastatic carcinoma. Pitfalls in the management of two cases initially diagnosed as osteolysis. Schmidt AH, et al. **J Arthroplasty** 1996 Aug;11(5):613–9

Fibrolamellar carcinoma of the liver: unusual endoscopic retrograde cholangiopancreatography appearance. Delcenserie R, et al. **J Clin Gastroenterol** 1996 Jan; 22(1):79–80

Combined hepatocellular and cholangiocarcinoma: correlation between CT findings and clinicopathological features. Fukukura Y, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):52–8

Differential diagnosis of early homogeneously enhancing hepatocellular carcinoma and hemangioma by two-phase CT. Hanafusa K, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):361–8

Hepatocellular carcinoma presenting as extrahepatic mass on computed tomography. Kimura H, et al. **J Gastroenterol** 1997 Apr;32(2):260–3

Nodular hepatocellular carcinomas: detection with arterial-, portal-, and delayed-phase images at spiral CT. Hwang GJ, et al. **Radiology** 1997 Feb;202(2):383–8

Hepatocellular carcinoma: the role of helical biphasic contrast-enhanced CT versus CT during arterial portography. Kanematsu M, et al. **Radiology** 1997 Oct; 205(1):75–80

Changes in contrast enhancement of hepatocellular carcinoma and liver: effect of temporary occlusion of a hepatic vein evaluated with spiral CT. Murata S, et al. **Radiology** 1997 Mar;202(3):715–20

Hepatocellular carcinoma in patients who undergo liver transplantation: sensitivity of CT with iodized oil. Spreafico C, et al. **Radiology** 1997 May;203(2):457–60

[Computerized tomography differentiation of hepatocellular carcinoma and cholangiocellular tumors] Zwicker C, et al. **Aktuelle Radiol** 1997 Mar;7(2):74–8 (Eng. Abstr.) **(Ger)**

[Utility of bolus dynamic CT for the detection of hypervascular malignant hepatic tumors: mainly referring to the comparison with delayed phase contrast-enhanced CT] Matsuda H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Mar; 56(4):167–72 (Eng. Abstr.) **(Jpn)**

[Three-phase dynamic helical CT for hepatocellular carcinoma: optimal scanning protocol] Shimizu T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):621–4 (Eng. Abstr.) **(Jpn)**

[Three-dimensional images of hepatic tumors and hepatic vessels obtained by helical computed tomography] Takeshita K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep; 56(11):744–6 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Prediction of postoperative decompensated liver function by technetium-99m galactosyl-human serum albumin liver scintigraphy in patients with hepatocellular carcinoma complicating chronic liver disease. Kim YK, et al. **Br J Surg** 1997 Jun;84(6):793–6

Tl-201 chloride SPECT imaging of hepatocellular carcinoma. Kempf JS, et al. **Clin Nucl Med** 1996 Dec; 21(12):953–7

Transient liver accumulation of Tc-99m phytate in hepatocellular carcinoma after percutaneous ethanol injection. Shiomi S, et al. **Clin Nucl Med** 1997 Aug; 22(8):550–2

Preoperative determination of the surgical procedure for hepatectomy using technetium-99m-galactosyl human serum albumin (99mTc-GSA) liver scintigraphy. Kwon AH, et al. **Hepatology** 1997 Feb;25(2):426–9

[A case of hepatocellular carcinoma associated with autoimmune hepatitis and increased scintigraphy of liver accumulation] Niki S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):220–4 **(Jpn)**

RADIOTHERAPY

Clinical evaluation of the partition model for estimating radiation doses from yttrium-90 microspheres in the treatment of hepatic cancer. Ho S, et al. **Eur J Nucl Med** 1997 Mar;24(3):293–8

Radiation tolerance of cirrhotic livers in relation to the preserved functional capacity: analysis of patients with hepatocellular carcinoma treated by focused proton beam radiotherapy. Ohara K, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):367–72

Long-term results of hepatic artery fluorodeoxyuridine and conformal radiation therapy for primary hepatobiliary cancers. Robertson JM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):325–30

Clearance of parenchymal tumors following radiotherapy: analysis of hepatocellular carcinomas treated by proton beams. Ohara K, et al. **Radiother Oncol** 1996 Dec; 41(3):233–6

SECONDARY

Lipiodol-CT for hepatocellular carcinoma [editorial; comment] Itai Y. **Abdom Imaging** 1997 May–Jun; 22(3):259–60. Comment on: Abdom Imaging 1997 May–Jun;22(3):253–8.

Intraperitoneal seeding from hepatocellular carcinoma following percutaneous ethanol ablation therapy. Kurl S, et al. **Abdom Imaging** 1997 May–Jun;22(3):261–3

Intrahepatic metastatic nodules of hepatocellular carcinoma detected at lipiodol-CT: imaging-pathologic correlation [see comments] Lencioni R, et al. **Abdom Imaging** 1997 May–Jun;22(3):253–8. Comment in: Abdom Imaging 1997 May–Jun;22(3):259–60.

Abdominal wall tumor seeding at sonographically guided needle-core aspiration biopsy of hepatocellular carcinoma [letter] Kanematsu M, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1198–9

Duodenal bulb involvement from metastasized porta-hepatis lymph node of hepatocellular carcinoma [letter] Kanematsu M, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):280–1

Short communication: the value of embolization therapy in painful osseous metastases from hepatocellular carcinomas; comparative study with radiation therapy. Murakami R, et al. **Br J Radiol** 1996 Nov;69(827):1042–4

Liver-directed therapies for gastrointestinal malignancies. McMurrick PJ, et al. **Curr Opin Oncol** 1997 Jul;9(4):367–72 (34 ref.)

Cytology of hepatocellular carcinoma in serous fluids: a report of three cases. Rosendale BE, et al. **Diagn Cytopathol** 1996 Aug;15(2):127–31

Surgical resection of primary hepatocellular carcinoma extending to adjacent organ(s). Tung WY, et al. **Eur J Surg Oncol** 1996 Oct;22(5):516–20

Adrenal metastasis from hepatocellular carcinoma--report of a case. Kitagawa Y, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1383–6

Periprosthetic metastatic carcinoma. Pitfalls in the management of two cases initially diagnosed as osteolysis. Schmidt AH, et al. **J Arthroplasty** 1996 Aug;11(5):613–9

Hepatocellular carcinoma with metastasis to the pharyngeal lymph nodes. Ciriza C, et al. **J Clin Gastroenterol** 1996 Oct;23(3):243–5

Case report: right-sided periadrenal metastasis supplied by the hepatic artery. Clue to the genesis of pedunculated hepatocellular carcinoma. Iwamoto S, et al. **J Gastroenterol Hepatol** 1997 May;12(5):392–7

Proliferative activity in intrahepatic metastasis of hepatocellular carcinoma. Maeda T, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):752–7

Case report: multiple systemic lymph node metastases from a small hepatocellular carcinoma. Toyoda H, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):959–62

Images in hepatology. Manifestation of hepatocellular carcinoma as osteolytic acrometastasis. Delsmann BM, et al. **J Hepatol** 1997 May;26(5):1154

Mandibular metastatic hepatocellular carcinoma: a case involving severe postbiopsy hemorrhage. Ashar A, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):547–52 (36 ref.)

Hepatocellular carcinoma metastatic to the mandibular ramus and condyle: report of a case and review of the literature. Yoshimura Y, et al. **J Oral Maxillofac Surg** 1997 Mar; 55(3):297–306 (38 ref.)

Hepatocellular carcinomas diagnosed following metastasis to the oral cavity. Report of 2 cases. Llanes F, et al. **J Periodontol** 1996 Jul;67(7):717–9 (7 ref.)

The angiogenesis inhibitor TNP-470 (AGM-1470) improves long-term survival of rats with liver metastasis. Ahmed MH, et al. **J Surg Res** 1996 Jul 15;64(1):35–41

Clinical utility of color Doppler sonography in the differentiation of hepatocellular carcinoma from metastases and hemangioma. Lin ZY, et al. **J Ultrasound Med** 1997 Jan;16(1):51–8

Intracranial metastases of hepatocellular carcinoma: CT and MRI. Murakami K, et al. **Neuroradiology** 1996 May;38 Suppl 1:S31–5

[Extensive metastases in the thoracic wall as an unusual manifestation of malignant hepatoma] Novák K, et al. **Rozhl Chir** 1997 Mar;76(3):133–7 (Eng. Abstr.) **(Cze)**

[Orbital metastasis of hepatocellular carcinoma: efficacy of local radiotherapy (letter)] Asselah T, et al. **Gastroenterol Clin Biol** 1996;20(11):1032–3 **(Fre)**

[PET studies with C-11 ethanol in intratumoral therapy of hepatocellular carcinomas] Dimitrakopoulou-Strauss A, et al. **Radiologe** 1996 Sep;36(9):744–9 (Eng. Abstr.) **(Ger)**

[Omental seeding of hepatocarcinoma: report of a case] Blandino A, et al. **Radiol Med (Torino)** 1997 Apr; 93(4):468–70 **(Ita)**

[A case of solitary sternal metastasis from unknown primary hepatocellular carcinoma] Horita K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):959–64 (Eng. Abstr.) **(Jpn)**

[A case of hepatocellular carcinoma with solitary lymph node metastasis after liver resection] Fujimori Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):300–3 **(Jpn)**

[A case of non-B, non-C, juvenile hepatocellular carcinoma

with brain metastasis] Sato S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):758–62 **(Jpn)**

[Cutaneous angiomatous metastasis of hepatocarcinoma (letter)] García-Patos V, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):183–4 **(Spa)**

SECRETION

The number of identical kringle IV repeats in apolipoprotein(a) affects its processing and secretion by HepG2 cells. Brunner C, et al. **J Biol Chem** 1996 Dec 13; 271(50):32403–10

[Highly metastatic model of human hepatocellular carcinoma established in nude mice using orthotopic organ selection of metastatic variant from patient specimens] Sun F, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):109–12 (Eng. Abstr.) **(Chi)**

SURGERY

Percutaneous microwave coagulation therapy in liver tumors. A 3-year experience. Matsukawa T, et al. **Acta Radiol** 1997 May;38(3):410–5

Hepatic resection for hepatocellular carcinoma. Nonami T, et al. **Am J Surg** 1997 Apr;173(4):288–91

Cryosurgery causes a profound reduction in tumor markers in hepatoma and noncolorectal hepatic metastases. Bilchik AJ, et al. **Am Surg** 1997 Sep;63(9):796–800

Place of cryosurgery in the treatment of malignant liver tumors. Adam R, et al. **Ann Surg** 1997 Jan;225(1):39–8; discussion 48–50

Significant influence of accompanying chronic hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy. Result of multivariate analysis [see comments] Ko S, et al. **Ann Surg** 1996 Nov;224(5):591–5 . Comment in: Ann Surg 1996 Nov;224(5):596–7.

Prospective evaluation of circulating hepatocytes by alpha-fetoprotein mRNA in humans during liver surgery. Lemoine A, et al. **Ann Surg** 1997 Jul;226(1):43–50

Influence of accompanying chronic hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy [editorial; comment] Russell PS. **Ann Surg** 1996 Nov; 224(5):596–7. Comment on: Ann Surg 1996 Nov;224(5):591–5.

Minimally invasive hepatic resection using laparoscopic surgery and minithoracotomy. Sato M, et al. **Arch Surg** 1997 Feb;132(2):206–8

Is cryosurgical ablation appropriate for treating hepatocellular cancer? Wren SM, et al. **Arch Surg** 1997 Jun;132(6):599–603; discussion 603–4

Indications for palliative reduction surgery in advanced hepatocellular carcinoma. The use of a remnant tumor index. Yamamoto K, et al. **Arch Surg** 1997 Feb;132(2):120–3

Evaluation of preoperative hepatic function in patients with hepatocellular carcinoma undergoing hepatectomy. Lau H, et al. **Br J Surg** 1997 Sep;84(9):1255–9

Surgery for biliary obstruction by tumour thrombus in primary liver cancer [see comments] Tantawi B, et al. **Br J Surg** 1996 Nov;83(11):1522–5. Comment in: Br J Surg 1997 Jun;84(6):890.

Recurrence of hepatocellular carcinoma after surgery. Yamamoto J, et al. **Br J Surg** 1996 Sep;83(9):1219–22

Surgical treatment of patients with mixed hepatocellular carcinoma and cholangiocarcinoma [see comments] Nakamura S, et al. **Cancer** 1996 Oct 15;78(8):1671–6. Comment in: Cancer 1997 Aug 1;80(3):514–6.

Des-gamma-carboxy prothrombin and alpha-fetoprotein positive status as a new prognostic indicator after hepatic resection for hepatocellular carcinoma. Shimada M, et al. **Cancer** 1996 Nov 15;78(10):2094–100

Prognostic factors affecting long-term survival after partial hepatectomy for human hepatocellular carcinoma. Chiu ST, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar; 59(3):177–85

Surgical resection of primary hepatocellular carcinoma extending to adjacent organ(s). Tung WY, et al. **Eur J Surg Oncol** 1996 Oct;22(5):516–20

Surgical treatment for hepatocellular carcinoma. Imaoka S, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:134–43

Three decades' experience in surgery of hepatocellular carcinoma. Tang ZY, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:126–33

Surgical resection of hepatocellular carcinoma in cirrhotic patients: prognostic value of preoperative portal pressure. Bruix J, et al. **Gastroenterology** 1996 Oct;111(4):1018–22

Prognosis of recurrent hepatocellular carcinoma: a 10-year surgical experience in Japan. Shimada M, et al. **Gastroenterology** 1996 Sep;111(3):720–6

Laparoscopic microwave coagulation therapy for solitary hepatocellular carcinoma performed under laparoscopic ultrasonography. Ido K, et al. **Gastrointest Endosc** 1997 May;45(5):415–20

Does a long pre-operative hospital stay before hepatectomy improve liver dysfunction in HCC patients with chronic liver disease? Ezaki T, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):472–6

Procedures of simultaneous radical resection indicated for primary synchronous esophageal and liver cancers—from the personal experience of three cases. Goseki N, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1353–9

Minute hepatocellular carcinoma originating in the caudate lobe with a long-term surviving of 9 years 6 months after surgical resection: a case report. Horie Y, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):1062–6

Surgery for hepatocellular carcinoma with tumor thrombus in the right atrium. Iemura J, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):824–5

Early recurrence after surgery of hepatocellular carcinoma. Ikeda Y, et al. **Hepatogastroenterology** 1995 Sep-Oct; 42(5):469–72

Renal function after elective hepatic resection. Matsumata T, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):602–7

Hepatic resection for hepatocellular carcinoma with a tumor thrombus extending to inferior vena cava. Nonami T, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):798–802

Arterial chemoembolization in hepatocellular carcinoma suitable for resective surgery. Portolani N, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1566–74

Chemoembolization and percutaneous ethanol injection for intrahepatic recurrence of hepatocellular carcinoma after hepatic resection. Sato M, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1421–6

Two long-term survivors after microwave coagulation therapy for hepatocellular carcinoma: a case report. Sato M, et al. **Hepatogastroenterology** 1996 Jul-Aug; 43(10):1035–9

A refined method of trans-thoracoabdominal hepatectomy for cirrhotic patients with hepatocellular carcinoma. Shimada M, et al. **Hepatogastroenterology** 1995 Sep-Oct; 42(5):450–3

Indications for, and effectiveness of, a second hepatic resection for recurrent hepatocellular carcinoma. Shuto T, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):932–7

Extension of surgical indication for advanced hepatocellular carcinoma: is it possible to prolong life span or improve quality of life? Tanaka A, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1172–81

Implications of surgical treatment for advanced hepatocellular carcinoma with tumor thrombi in the portal vein. Tanaka A, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):637–43

Laparoscopic hepatic resection: a new and safe procedure by abdominal wall lifting method. Watanabe Y, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):143–7

Surgical results of spontaneously ruptured hepatocellular carcinoma. Yamagata M, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):461–4

Right hepatic lobectomy in elderly patients with hepatocellular carcinoma. Yamamoto K, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):514–8

kan-1 (bile acid CoA:amino acid N-acyltransferase) messenger RNA as a novel predictive indicator for prognosis of hepatocellular carcinoma patients after partial hepatectomy. Furutani M, et al. **Hepatology** 1996 Dec; 24(6):1441–5

Recurrence of hepatocellular carcinoma after surgery: can it be avoided? Kew MC. **Hepatology** 1996 Sep;24(3):741–2

The prediction of risk of recurrence and time to recurrence of hepatocellular carcinoma after orthotopic liver transplantation: a pilot study [see comments] Marsh JW, et al. **Hepatology** 1997 Aug;26(2):444–50. Comment in: Hepatology 1997 Aug;26(2):507–8.

Treatment of fibrolamellar hepatoma with subtotal hepatectomy or transplantation. Pinna AD, et al. **Hepatology** 1997 Oct;26(4):877–83

Can the prognosis of liver transplantation for hepatocellular carcinoma be predicted? [editorial; comment] Ringe B. **Hepatology** 1997 Aug;26(2):507–8. Comment on: Hepatology 1997 Aug;26(2):444–50.

Liver transplantation for hepatocellular carcinoma: the best treatment, but for which patient? Schwartz ME. **Hepatology** 1996 Dec;24(6):1539–41

Significance of liver size in hepatic surgery. Yanaga K, et al. **HPB Surg** 1997;10(4):195–9; discussion 199–200

Hepatocellular carcinoma of the intrabiliary growth type. Ikeda Y, et al. **Int Surg** 1997 Jan-Mar;82(1):76–8

Surgical treatment of hepatocellular carcinoma with biliary tumor thrombi. Mok KT, et al. **Int Surg** 1996 Jul-Sep; 81(3):284–8

Conservative hepatic resection for hepatocellular carcinoma of cirrhotic patients. Sheen PC, et al. **Int Surg** 1996 Jul-Sep; 81(3):280–3

Right side hepatic resection under right thoracoabdominal incision with special reference to a highly anatomical systematized method. Tsugita M, et al. **Int Surg** 1995 Jul-Sep;80(3):242–6

Water jet scalpel for liver resection in hepatocellular carcinoma with or without cirrhosis. Une Y, et al. **Int Surg** 1996 Jan-Mar;81(1):45–8

Resection of the caudate lobe of the liver for primary and recurrent hepatocellular carcinomas [see comments] Nagasue N, et al. **J Am Coll Surg** 1997 Jan;184(1):1–8. Comment in: J Am Coll Surg 1997 Jan;184(1):75–6.

Topical cooling-assisted hepatic segmentectomy for cirrhotic liver with hepatocellular carcinoma. Yamanaka N, et al. **J Am Coll Surg** 1997 Mar;184(3):290–6

Woodchuck hepatitis virus-induced carcinoma as a relevant natural model for therapy of human hepatoma. Gouillat C, et al. **J Hepatol** 1997 Jun;26(6):1324–30

Liver resection or transplantation for hepatocellular carcinoma? Retrospective analysis of 215 patients with cirrhosis. Michel J, et al. **J Hepatol** 1997 Jun;26(6):1274–80

Gasless laparoscopic resection of hepatocellular carcinoma (HCC) in cirrhosis. Intra M, et al. **J Laparoendosc Surg** 1996 Aug;6(4):263–70

Unresectable hepatic tumors in childhood and the role of liver transplantation. Achilleos OA, et al. **J Pediatr Surg** 1996 Nov;31(11):1563–7

Improved staging of liver tumors using laparoscopic intraoperative ultrasound. Barbot DJ, et al. **J Surg Oncol** 1997 Jan;64(1):63–7

Should reimbursement be denied for liver transplantation in patients with hepatocellular carcinoma? [letter] Marsh JW, et al. **JAMA** 1997 Jul 16;278(3):203–5

Technical considerations for fractionated stereotactic radiotherapy of hepatocellular carcinoma. Tokuuye K, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):170–3

More radical surgical excision for hepatocellular cancer? McMaster P. **Lancet** 1996 Dec 14;348(9042):1601–2

Survival after liver transplantation in patients with hepatocellular carcinoma. Iwatsuki S, et al. **Princess Takamatsu Symp** 1995;25:271–6

Surgical treatment of hepatocellular carcinoma. Kosuge T. **Princess Takamatsu Symp** 1995;25:265–70

Liver resection and liver transplantation in hepatocellular carcinoma. Franco D. **Rev Gastroenterol Mex** 1996 Oct-Dec;61(4 Suppl 2):S94

Clinicopathologic factors influencing the long-term prognosis following hepatic resection for large hepatocellular carcinoma more than 10 cm in diameter. Noguchi T, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6-7–S6-13

Results of 90 consecutive hepatectomies for hepatocellular carcinoma: a multivariate analysis of survival. Tani M, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6-1–6

Hepatic tumors in children. Newman KD. **Semin Pediatr Surg** 1997 Feb;6(1):38–41 (30 ref.)

Intraoperative ultrasonography and other techniques for segmental resections. Takayama T, et al. **Surg Oncol Clin N Am** 1996 Apr;5(2):261–9 (16 ref.)

Effect of preoperative portal vein embolization on major hepatectomy for advanced-stage hepatocellular carcinomas in injured livers: a preliminary report. Wakabayashi H, et al. **Surg Today** 1997;27(5):403–10

Hepatocellular carcinoma associated with precirrhotic primary biliary cirrhosis successfully treated by a right hepatic lobectomy: report of a case. Wakai T, et al. **Surg Today** 1996;26(9):723–6 (23 ref.)

Proposal of invasiveness score to predict recurrence and survival after curative hepatic resection for hepatocellular carcinoma. el-Assal ON, et al. **Surgery** 1997 Sep; 122(3):571–7

Liver transplantation for hepatocellular carcinoma: prognostic factors associated long-term survival. Colella G, et al. **Transpl Int** 1996;9 Suppl 1:S109–11

DNA flow cytometry in patients undergoing liver transplantation for hepatocellular carcinoma. Crafa F, et al. **Transpl Int** 1996;9 Suppl 1:S112–4

Orthotopic liver transplantation in presence of hepatocellular carcinoma. Adham M, et al. **Transplant Proc** 1996 Oct; 28(5):2851

Is hepatocellular carcinoma in cirrhosis an actual indication for liver transplantation? Colella G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):492–4

Prognosis of hepatocarcinoma in liver transplantation in cirrhotic patients. Figueras J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):495

Sequential liver transplantation. Furtado A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):467–8

Is transplantation really superior to resection in the treatment of small hepatocellular carcinoma? Otto G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):489–91

Liver transplantation—treatment option for selected liver tumors. McVicar JP. **West J Med** 1996 Feb;164(2):165

High preoperative serum alanine transferase levels: effect on the risk of liver resection in Child grade A cirrhotic patients. Noun R, et al. **World J Surg** 1997 May;21(4):390–4; discussion 395

Role of preoperative transcatheter arterial oily chemoembolization for resectable hepatocellular carcinoma. Uchida M, et al. **World J Surg** 1996 Mar-Apr; 20(3):326–31

[Surgical strategy in pediatric liver malignancies] von Schweinitz D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1091–4 (Eng. Abstr.) **(Ger)**

[Surgical therapy of primary and secondary liver tumors] Broelsch CE, et al. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):91–3 (Eng. Abstr.) **(Ger)**

[Interstitial photocoagulation with laser in the treatment of neoplastic lesions of the liver. Preliminary experience] Cecconi P, et al. **Radiol Med (Torino)** 1996 Jul-Aug; 92(1-2):105–9 **(Ita)**

[A patient with hepatocellular carcinoma originating from the caudate lobe, who underwent hepatectomy following microwave coagulation therapy] Kishimoto S, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1596–9 (Eng. Abstr.) **(Jpn)**

[A case of successful management of advanced cholangiocellular carcinoma by repeated hepatic resection] Nakano H, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1603–6 (Eng. Abstr.) **(Jpn)**

[Evaluation of percutaneous microwave hepatic tumor coagulation therapy (PMTC) under general anesthesia from viewpoint of quality of life (QOL)] Niinobu T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1600–2 (Eng.

Abstr.) **(Jpn)**

[MR imaging of hepatocellular carcinoma following microwave coagulation therapy] Murata K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):940–7 (Eng. Abstr.) **(Jpn)**

[Percutaneous microwave coagulation therapy and endoscopic microwave coagulo-necrotic therapy for small hepatocellular carcinoma] Otsuka S. **Nippon Rinsho** 1996 May;54(5):1343–6 (8 ref.) (Eng. Abstr.) **(Jpn)**

[A resected case of cholangiocellular carcinoma associated with HCV antibody-positive liver cirrhosis] Saitoh S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):131–6 **(Jpn)**

THERAPY

Plain and gadolinium-DTPA-enhanced MR imaging of hepatocellular carcinoma treated with transarterial chemoembolization. Castrucci M, et al. **Abdom Imaging** 1996 Nov–Dec;21(6):488–94

Intraperitoneal seeding from hepatocellular carcinoma following percutaneous ethanol ablation therapy. Kurl S, et al. **Abdom Imaging** 1997 May–Jun;22(3):261–3

Percutaneous ethanol injection therapy: use of a directable needle guide. Ishizaka H, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1563–4

Nonresectional therapies for hepatocellular carcinoma. Liu CL, et al. **Am J Surg** 1997 Apr;173(4):358–65 (100 ref.)

The safety and efficacy of transcatheter arterial chemoembolization in the treatment of patients with hepatocellular carcinoma and main portal vein obstruction. A prospective controlled study. Lee HS, et al. **Cancer** 1997 Jun 1;79(11):2087–94

Risk factors for intrahepatic recurrence of hepatocellular carcinoma in cirrhotic patients treated by percutaneous ethanol injection. Pompili M, et al. **Cancer** 1997 Apr 15; 79(8):1501–8

Structural characteristics of cationic liposomes with potent enhancing effect on retroviral transduction into human hepatoma cells. Kaneko Y, et al. **Cancer Lett** 1996 Oct 22;107(2):211–5

In vivo gene therapy for alpha-fetoprotein-producing hepatocellular carcinoma by adenovirus-mediated transfer of cytosine deaminase gene. Kanai F, et al. **Cancer Res** 1997 Feb 1;57(3):461–5

Ablation of hepatocellular carcinoma by percutaneous ethanol injection: imaging findings. Becker CD, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):204–10

Treatment of hepatocellular carcinoma: a single-center experience. Florio F, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):23–8

Partial splenic embolization for hypersplenism concomitant with or after arterial embolization of hepatocellular carcinoma in 30 patients. Han MJ, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):125–7

Sequential transarterial chemoembolization for unresectable advanced hepatocellular carcinoma. Jaeger HJ, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec;19(6):388–96 (32 ref.)

Left lobe recurrent hepatocellular carcinoma treated with lipiodol-TAE via the left internal mammary artery. Kanetsuki I, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct;20(5):387–9

Long-term palliative treatment of hepatocellular carcinoma extending into the portal vein and bile duct by chemoembolization and metallic stenting. Yoshioka T, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct;20(5):390–3

Liver-directed therapies for gastrointestinal malignancies. McMurrick PJ, et al. **Curr Opin Oncol** 1997 Jul;9(4):367–72 (34 ref.)

Liver-spleen infarcts following transcatheter chemoembolization: a case report and review of the literature on adverse effects. Cohen SE, et al. **Dig Dis Sci** 1997 May;42(5):938–43 (29 ref.)

Unresectable hepatocellular carcinoma in cirrhosis: survival, prognostic factors, and unexpected side effects after transcatheter arterial chemoembolization. Farinati F, et al. **Dig Dis Sci** 1996 Dec;41(12):2332–9

Left brachial approach for transcatheter arterial embolization therapy in patients with hepatocellular carcinoma. Watanabe S, et al. **Dig Dis Sci** 1997 Jan;42(1):47–58

Acute hepatic failure following transcatheter arterial embolization for the treatment of hepatocellular carcinoma. Katsushima S, et al. **Digestion** 1997;58(2):189–95

Intra-arterial chemotherapy followed by chemo-embolisation in unresectable hepatocellular carcinoma. Colleoni M, et al. **Eur J Cancer** 1997 Jan; 33(1):56–60

The management of liver cell cancer. Rasmussen I, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):861–7 (87 ref.)

Arteritis following intra-arterial chemotherapy for liver tumors. Belli L, et al. **Eur Radiol** 1997;7(3):323–6

Long-term results of percutaneous ethanol injection therapy for hepatocellular carcinoma in cirrhosis: a European experience. Lencioni R, et al. **Eur Radiol** 1997;7(4):514–9

Chemoembolization for small hepatocellular carcinoma. Nakamura H, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:144–7

Chemoembolization for hepatocellular carcinoma. Nakamura H. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1390–1 (6 ref.)

Complete regression of established murine hepatocellular carcinoma by in vivo tumor necrosis factor alpha gene transfer [see comments] Cao G, et al. **Gastroenterology** 1997 Feb;112(2):501–10. Comment in: Gastroenterology 1997 Feb;112(2):656–9.

Gene therapy for hepatocellular carcinoma: progress but many stones yet unturned! [editorial; comment] Schuster MJ, et al. **Gastroenterology** 1997 Feb;112(2):656–9 (22 ref.) . Comment on: Gastroenterology 1997 Feb;112(2):501–10.

Gene therapy for hepatocellular carcinoma: long-term remission of primary and metastatic tumors in mice by interleukin-2 gene therapy in vivo. Huang H, et al. **Gene Ther** 1996 Nov;3(11):980–7

Short-term effects of transcatheter arterial chemoembolisation on metabolic activity of the liver of cirrhotic patients with hepatocellular carcinoma. Bianco S, et al. **Gut** 1996 Aug;39(2):325–9

A comparison of chemoembolization with conventional chemotherapy and symptomatic treatment in cirrhotic patients with hepatocellular carcinoma. Bayraktar Y, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):681–7

Transcatheter arterial chemoembolization in cytoreduction of inoperable hepatocarcinomas. Elli M, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):522–4

Multimodal treatment of stage IVa hepatocellular carcinoma. Harada T, et al. **Hepatogastroenterology** 1996 Sep–Oct; 43(11):1154–8

Predictive factors for recurrence after percutaneous ethanol injection for solitary hepatocellular carcinoma. Ishii H, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):938–43

Effect of percutaneous ethanol injection for postoperative recurrence of hepatocellular carcinoma in combination with transcatheter arterial embolization. Ishii H, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):644–50

A successful treatment for hepatocellular carcinoma with atrial tumor thrombus. Kashima Y, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1041–5

Multidisciplinary management of hepatocellular carcinoma. Lygidakis NJ, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1611–9

Treatment of hepatocellular carcinoma. Bruix J. **Hepatology** 1997 Feb;25(2):259–62 (37 ref.)

Restriction of tumoricidal gene therapy to selected hepatocellular carcinoma cells. Gagandeep S, et al. **Hepatology** 1996 Nov;24(5):1317–9

Patterns of recurrence after initial treatment in patients with small hepatocellular carcinoma. Kumada T, et al. **Hepatology** 1997 Jan;25(1):87–92

Treatment of nodular hepatocellular carcinoma larger than 3 cm with ultrasound-guided percutaneous acetic acid injection. Ohnishi K, et al. **Hepatology** 1996 Dec; 24(6):1379–85

Tissue-specific growth suppression and chemosensitivity promotion in human hepatocellular carcinoma cells by retroviral-mediated transfer of the wild-type p53 gene. Xu GW, et al. **Hepatology** 1996 Nov;24(5):1264–8

Can small hepatocellular carcinoma be cured by percutaneous acetic acid injection therapy? Fan ST. **HPB Surg** 1997;10(5):340–1

Gene transfer and therapy with adenoviral vector in rats with diethylnitrosamine-induced hepatocellular carcinoma. Qian C, et al. **Hum Gene Ther** 1997 Feb 10;8(3):349–58

Clinical results of radiofrequency hyperthermia for malignant liver tumors. Nagata Y, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):359–65

Prevention of variceal rebleeding and treatment of liver carcinoma by consecutive transjugular intrahepatic portosystemic shunt and hepatic artery chemoembolization. Nicolini A, et al. **Ital J Gastroenterol** 1996 Jun;28(5):269–71

Safe anesthetic management of patients undergoing a novel method of treating human hepatocellular cancer. Dougherty TB, et al. **J Clin Anesth** 1997 May;9(3):220–7

Transcatheter arterial embolization-induced bilious pleuritis in a patient with hepatocellular carcinoma. Ichikawa T, et al. **J Gastroenterol** 1997 Jun;32(3):405–9

Hepatocellular carcinoma in the caudate lobe: early diagnosis and active treatment may result in long-term survival. Lu CL, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):144–8

Chemoembolization versus chemotherapy in elderly patients with unresectable hepatocellular carcinoma and contrast uptake as prognostic factor. Biselli M, et al. **J Gerontol A Biol Sci Med Sci** 1997 Sep;52(5):M305–9

Analytical study of the clinical response to two distinct adoptive immunotherapies for advanced hepatocellular carcinoma: comparison between LAK cell and CTL therapy. Haruta I, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):218–23

Locoregional techniques in the treatment of hepatic tumors [editorial] Rush BF Jr, et al. **J Surg Oncol** 1997 Apr; 64(4):259–61

Transcatheter arterial chemoembolization in inoperable hepatocellular carcinoma: four-year follow-up. Ngan H, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):419–25

Treatment of hepatocellular carcinoma. Colombo M. **J Viral Hepat** 1997;4 Suppl 1:125–30 (27 ref.)

Basic science focus of third international symposium on liver cancer and hepatitis [news] Skolnick AA. **JAMA** 1996 Nov 13;276(18):1457–8

Clinical usefulness of determining the rate of thermal clearance within heated tumors. Masunaga S, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):428–37

Treatment of unresectable hepatocellular carcinoma: targeted therapies using iodized oil. Bhattacharya S, et al. **Princess Takamatsu Symp** 1995;25:253–64 (63 ref.)

The present status of treatments for hepatocellular carcinoma. Tanikawa K. **Princess Takamatsu Symp** 1995;25:245–52 (13 ref.)

Hepatocellular carcinoma with portal vein tumor thrombus: embolization of arterioportal shunts. Furuse J, et al. **Radiology** 1997 Sep;204(3):787–90

Treatment of small hepatocellular carcinoma associated with cirrhosis by percutaneous ethanol injection. A trial with a comparison group. Orlando A, et al. **Scand J Gastroenterol** 1997 Jun;32(6):598–603

Phase II study of Spherex (degradable starch microspheres) injected into the hepatic artery in conjunction with doxorubicin and cisplatin in the treatment of advanced-stage hepatocellular carcinoma: interim analysis. Carr BI, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–97–S6–99

Hepatocellular carcinoma patients showing long-term complete responses to chemoembolization. Hashimoto T, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–26–S6–28

Zinostatin stimalamer-transcatheter arterial embolization for hepatocellular carcinoma: a comparison with lipiodol-transcatheter arterial embolization. Hirashima N, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–91–S6–96

Prospective and randomized trial of lipiodol-transcatheter arterial chemoembolization for treatment of hepatocellular carcinoma: a comparison of epirubicin and doxorubicin (second cooperative study). The Cooperative Study Group for Liver Cancer Treatment of Japan. Kawai S, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–38–S6–45

Total necrosis of hepatocellular carcinoma with a combination therapy of arterial infusion of chemotherapeutic lipiodol and transcatheter arterial embolization: report of 14 cases. Kenji J, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–71–S6–80

Optimal lipiodol volume in transcatheter arterial chemoembolotherapy for hepatocellular carcinoma: study based on lipiodol accumulation patterns and histopathologic findings. Matsuo N, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–61–S6–70

Combination of transcatheter arterial embolization and percutaneous ethanol injection for hepatocellular carcinoma: comparison of efficacies of doxorubicin and epirubicin in transcatheter arterial embolization. Nakamura S, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–46–S6–49

Antitumor effect of transcatheter oily chemoembolization for hepatocellular carcinoma assessed by computed tomography: role of iodized oil. Oi H, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–56–S6–60

Indication of chemoembolization therapy without gelatin sponge for hepatocellular carcinoma. Suzuki M, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–110–S6–115

Combined therapy with external beam irradiation and hepatic arterial epirubicin infusion through an implanted port for advanced hepatocellular carcinoma. Takizawa K, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–116–S6–121

Appraisal of combination treatment for hepatocellular carcinoma: long-term follow-up and lipiodol-percutaneous ethanol injection therapy. Tateishi H, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–81–S6–90

Evaluation of combined therapy with chemoembolization and ethanol injection for advanced hepatocellular carcinoma. Yamamoto K, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–50–S6–55

Factors associated with survival exceeding 5 years after transcatheter arterial embolization for hepatocellular carcinoma. Yoshioka H, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–29–S6–37

Histological assessment of combined chemoembolization and alcohol infusion for hepatocellular carcinoma in cirrhotic patients. Troisi R, et al. **Transplant Proc** 1997 Aug; 29(5):2412–3

Microwave coagulonecrotic therapy for hepatocellular carcinoma. Yamanaka N, et al. **World J Surg** 1996 Oct; 20(8):1076–81

[Treatment of liver tumors with ethanol injection] Kaláb M. **Vnitr Lek** 1997 Mar;43(3):180–3 (Eng. Abstr.) **(Cze)**

[Gene therapy of primary cancers of the liver: hopes and realities] Ferry N. **Bull Cancer** 1997 Apr;84(4):431–4 (Eng. Abstr.) **(Fre)**

[Is there a place for arterial chemoembolization of the liver in the treatment for hepatocellular carcinoma? (editorial)] Trinchet JC, et al. **Gastroenterol Clin Biol** 1995 Dec; 19(12):967–9 (24 ref.) **(Fre)**

[Percutaneous alcoholization of hepatocellular carcinoma complicated by acute endocarditis on aortic valvulopathy and cerebral abscess (letter)] Vuillemin E, et al. **Gastroenterol Clin Biol** 1997;21(5):441–2 **(Fre)**

[Therapy of primary hepatocellular carcinoma] Jonas S, et al. **Dtsch Med Wochenschr** 1997 May 9;122(19):617–20 (16 ref.) **(Ger)**

[Comparative study on the long-term effect of permanent embolization of hepatic artery with Bletilla striata in patients with primary liver cancer] Feng G, et al. **J Tongji Med Univ** 1996;16(2):111–6 (Eng. Abstr.) **(Ger)**

[Comparison of liver resection with sequential transarterial chemoembolization in stage pT3 or pT4 hepatocellular carcinoma] Hasse F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:208–10 (Eng. Abstr.) **(Ger)**

[Combined transarterial chemoembolization and percutaneous ethanol injection in hepatocellular carcinoma prior to transplantation] Hesse UJ, et al.

Langenbecks Arch Chir Suppl Kongressbd 1997;114:121–5 (Eng. Abstr.) **(Ger)**

[Percutaneous ethanol injection therapy of hepatocellular carcinoma] Reinwald H. **Med Klin** 1996 Nov 15; 91(11):729–34 **(Ger)**

[Percutaneous alcohol instillation therapy (PAI) and chemoembolization in extensive hepatocellular carcinoma] Adamus R, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Feb;166(2):173–5 (10 ref.) **(Ger)**

[Therapy of hepatocellular carcinoma] Allgaier HP, et al. **Schweiz Med Wochenschr** 1996 Nov 16;126(46):1984–94 (106 ref.) (Eng. Abstr.) **(Ger)**

[Nonsurgical therapy of focal liver lesions] Allgaier HP, et al. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):86–90 (40 ref.) (Eng. Abstr.) **(Ger)**

[Imaging-guided therapy of primary tumors of the liver] Fuertes Guirò F, et al. **Minerva Chir** 1996 May;51(5):321–8 (88 ref.) (Eng. Abstr.) **(Ita)**

[Assessment of the therapeutic effectiveness of alcohol administration in hepatocarcinoma: comparison of spiral computerized tomography and Doppler color ultrasonography] Basilico R, et al. **Radiol Med (Torino)** 1996 Jul–Aug;92(1–2):92–6 (Eng. Abstr.) **(Ita)**

[The effect of high-dose intraarterial chemotherapy with percutaneous hepatic venous isolation and charcoal hemoperfusion (HVI.CHP) for unresectable multiple hepatocellular carcinoma--comparison with other therapeutic modalities] Iwasaki T, et al.
Gan To Kagaku Ryoho 1996 Sep;23(11):1426–8 (Eng. Abstr.) **(Jpn)**

[A case of advanced hepatoma cured by repeated percutaneous isolated liver perfusion using hepatic venous isolation and charcoal hemoperfusion] Kitagawa T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1592–5 (Eng. Abstr.) **(Jpn)**

[A case of advanced cholangiocellular carcinoma treated successfully by percutaneous isolated liver perfusion with cisplatin] Maeda I, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1607–9 (Eng. Abstr.) **(Jpn)**

[Efficiency of segmental SMANCS/Lip-TAE for hepatocellular carcinoma--comparative studies in the efficacy of segmental SMANCS/Lip-TAI] Matoba M, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):37–42 (Eng. Abstr.) **(Jpn)**

[The effects of preoperative transcatheter arterial chemoembolization (TAE) for the recurrence of hepatocellular carcinoma (HCC) from the viewpoint of consecutive tumor necrosis effect] Nakanishi K, et al.
Gan To Kagaku Ryoho 1996 Sep;23(11):1412–4 (Eng. Abstr.) **(Jpn)**

[A patient with HCC successfully treated by ethanol injection therapy with etoposide] Sakon M, et al.
Gan To Kagaku Ryoho 1996 Sep;23(11):1585–7 (Eng. Abstr.) **(Jpn)**

[Hepatic resection with "wrapping therapy" for advanced hepatocellular carcinoma uncontrolled by arterial embolization] Sasaki Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1588–91 (Eng. Abstr.) **(Jpn)**

[Role of reservoirs in intraarterial chemotherapy for recurrent hepatocellular carcinoma after hepatectomy] Tomioka N, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1422–5 (Eng. Abstr.) **(Jpn)**

[Balloon-occluded ethanol ablation therapy: (BEAT) for hepatocellular carcinoma] Motohara T, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1997 Jun;57(7):433–5 (Eng. Abstr.) **(Jpn)**

[A case of jejunal malignant lymphoma resulting in perforation 2 years after transcatheter arterial embolization for hepatocellular carcinoma] Yokohama A, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Aug;93(8):578–82 (21 ref.) **(Jpn)**

[Treatment of hepatocarcinoma] Martínez Cerezo FJ, et al. **Rev Esp Enferm Dig** 1996 Oct;88(10):687–94 (64 ref.) **(Spa)**

[Percutaneous treatment of hepatocellular carcinoma] Brú C. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S90–3 **(Spa)**

[Hepatocellular carcinoma. Experience at the Instituto Nacional de Cancerología] Mondragón Sánchez R, et al. **Rev Gastroenterol Mex** 1997 Jan–Mar;62(1):34–40 (Eng. Abstr.) **(Spa)**

[Hepatocellular carcinoma. General aspects of diagnosis and treatment] Manterola C, et al. **Rev Med Chil** 1996 Apr; 124(4):469–79 (44 ref.) (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Color Doppler flow imaging of hepatocellular carcinomas. Comparison with metastatic tumors and hemangiomas by three-step grading for color hues. Lee MG, et al.
Clin Imaging 1996 Jul–Sep;20(3):199–203

Possibility of differentiating small hyperechoic liver tumours using contrast-enhanced colour Doppler ultrasonography: a preliminary study. Tano S, et al. **Clin Radiol** 1997 Jan; 52(1):41–5

Laparoscopic microwave coagulation therapy for solitary hepatocellular carcinoma performed under laparoscopic ultrasonography. Ido K, et al. **Gastrointest Endosc** 1997 May;45(5):415–20

Change in hepatic arterial hemodynamics induced by hepatocellular carcinoma detected with Doppler sonography. Someda H, et al. **J Clin Ultrasound** 1997 Sep; 25(7):359–65

Ultrasound-guided cutting biopsy for the diagnosis of hepatocellular carcinoma--a study based on 420 patients [see comments] Huang GT, et al. **J Hepatol** 1996 Sep; 25(3):334–8. Comment in: J Hepatol 1997 May;26(5):1155–6.

Improved staging of liver tumors using laparoscopic intraoperative ultrasound. Barbot DJ, et al.
J Surg Oncol 1997 Jan;64(1):63–7

Clinical utility of color Doppler sonography in the differentiation of hepatocellular carcinoma from metastases and hemangioma. Lin ZY, et al. **J Ultrasound Med** 1997 Jan;16(1):51–8

Detection of hepatocellular carcinoma in cirrhotic patients: sensitivity of CT and ultrasonography. Shapiro RS, et al. **J Ultrasound Med** 1996 Jul;15(7):497–502; quiz 503–4

Evaluation of blood flow signal in small hepatic nodules by color Doppler ultrasonography. Furuse J, et al.
Jpn J Clin Oncol 1996 Oct;26(5):335–40

Assessment of tumor vascularity in hepatocellular carcinoma: comparison of power Doppler US and color Doppler US. Lencioni R, et al. **Radiology** 1996 Nov;201(2):353–8

Gray scale second harmonic imaging of the liver: a preliminary animal study. Kono Y, et al.
Ultrasound Med Biol 1997;23(5):719–26

[Vascularization patterns in focal liver lesions: comparison of plain and signal-enhanced amplitude-modulated color duplex ultrasonography] Hosten N, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jun;166(6):507–13 (Eng. Abstr.) **(Ger)**

[Ultrasound-guided fine-needle aspiration biopsy of focal liver lesions] Járay B, et al. **Orv Hetil** 1997 Jul 6; 138(27):1731–6 (Eng. Abstr.) **(Hun)**

[Blood flow assessment with Doppler color ultrasonography in primary and secondary tumors of the liver] Giulio GD, et al. **Radiol Med (Torino)** 1997 Mar;93(3):225–9 (Eng. Abstr.) **(Ita)**

ULTRASTRUCTURE

Expression of androgen receptor and its implication in hepatoma cells. Cho H, et al. **Cancer Lett** 1997 May 19; 115(2):135–40

In human hepatocellular carcinoma cells the total membrane surface area of each major organelle is a particular allometric function of the cytoplasmic volume. A morphometric study. De Menezes Y, et al.
J Submicrosc Cytol Pathol 1996 Oct;28(4):573–82

URINE

Clinical evaluation of urinary transforming growth factor-beta1 and serum alpha-fetoprotein as tumour markers of hepatocellular carcinoma. Tsai JF, et al.
Br J Cancer 1997;75(10):1460–6

Elevated urinary transforming growth factor-beta1 level as a tumour marker and predictor of poor survival in cirrhotic hepatocellular carcinoma. Tsai JF, et al. **Br J Cancer** 1997; 76(2):244–50

Clinical relevance of transforming growth factor-beta 1 in the urine of patients with hepatocellular carcinoma. Tsai JF, et al. **Medicine (Baltimore)** 1997 May;76(3):213–26

VETERINARY

Woodchuck p-glycoprotein found in virus-induced hepatocellular carcinomas binds anticancer drugs. Dunn SE, et al. **Cancer Lett** 1996 Dec 20;110(1–2):177–80

Combined hepatocellular carcinoma and cholangiocarcinoma in a mare. Kato M, et al. **J Comp Pathol** 1997 May; 116(4):409–13

Woodchuck hepatitis virus-induced carcinoma as a relevant natural model for therapy of human hepatoma. Gouillat C, et al. **J Hepatol** 1997 Jun;26(6):1324–30

Hepatocellular carcinoma in a squirrel monkey (Saimiri sciureus). Morris TH, et al. **J Med Primatol** 1996 Apr; 25(2):137–9

Immunohistochemical and ultrastructural studies on the sinusoidal lining cells of canine hepatocellular carcinoma. Shiga A, et al. **J Vet Med Sci** 1996 Sep;58(9):909–14

Hepatitis and hepatocellular carcinoma in two prairie dogs (Cynomys ludovicianus). Une Y, et al. **J Vet Med Sci** 1996 Sep;58(9):933–5

Spontaneous hepatocellular carcinoma in Saimiri boliviensis. Borda JT, et al. **Vet Pathol** 1996 Nov;33(6):724–6

Hepatocellular tumours in roe deer in Britain. Munro R, et al. **Vet Rec** 1996 Jun 1;138(22):542–6

[Hepatocellular carcinoma in a lemur (Varecia variegata rubra x variegata)--a case report] Wohlsein P, et al.
DTW Dtsch Tierarztl Wochenschr 1996 May;103(5):180–3 (Eng. Abstr.) **(Ger)**

[Polycythemia caused by liver carcinoma in cattle and sheep] Braun U, et al. **Schweiz Arch Tierheilkd** 1997;139(4):165–71 (Eng. Abstr.) **(Ger)**

VIROLOGY

TAR- and Tat-independent replication of human immunodeficiency virus type 1 in human hepatoma cells. Zhu M, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10; 12(12):1093–101

Prospective study of hepatocellular carcinoma and liver cirrhosis in asymptomatic chronic hepatitis B virus carriers. Yu MW, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1039–47

No relationship between smoking and hepatitis B virus-related hepatocellular carcinoma [letter; comment] Sivri B, et al. **Am J Gastroenterol** 1997 May;92(5):914. Comment on: Am J Gastroenterol 1996 Jun;91(6):1195–203.

Hepatitis C and cancer [letter; comment] Marinella MA, et al. **Ann Intern Med** 1997 Jun 15;126(12):1002–3. Comment on: Ann Intern Med 1996 Oct 15;125(8):658–68.

Hepatitis B and C viruses and primary liver cancer. Brechot C. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):335–73 (237 ref.)

Effect of hepatitis C and B virus infection on risk of hepatocellular carcinoma: a prospective study. Tsai JF, et al. **Br J Cancer** 1997;76(7):968–74

In situ simultaneous detection of hepatitis C virus RNA and hepatitis C virus-related antigens in hepatocellular carcinoma. Sansonno D, et al. **Cancer** 1997 Jul 1;80(1):22–33

Correlation of hepatitis virus serologic status with clinicopathologic features in patients undergoing hepatectomy for hepatocellular carcinoma. Yamanaka N, et al. **Cancer** 1997 Apr 15;79(8):1509–15

Direct detection of hepatitis B virus gene integrated in the Alexander cell using fluorescence in situ polymerase chain reaction. Matsui H, et al. **Cancer Lett** 1997 Jun 24; 116(2):259–64

Hepatitis B and C viruses and hepatocellular carcinoma. Kew MC. **Clin Lab Med** 1996 Jun;16(2):395–406 (73 ref.)

Risk factors and prevention of hepatocellular carcinoma in HCV infection. Benvegnù L, et al. **Dig Dis Sci** 1996 Dec; 41(12 Suppl):49S–55S

The occurrence of hepatitis B and C viruses in Pakistani patients with chronic liver disease and hepatocellular carcinoma. Tong CY, et al. **Epidemiol Infect** 1996 Oct; 117(2):327–32

Hepatitis C virus and hepatocellular carcinoma [editorial] Giacosa A, et al. **Eur J Cancer Prev** 1996 Dec;5(6):423–4 (5 ref.)

The relative roles of hepatitis B and C viruses in the etiology of hepatocellular carcinoma in southern African blacks. Kew MC, et al. **Gastroenterology** 1997 Jan;112(1):184–7

Precore/core mutations of hepatitis B virus in hepatocellular carcinomas developed on noncirrhotic livers. Minami M, et al. **Gastroenterology** 1996 Sep;111(3):691–700

Association between chronic hepatitis C infection and hepatocellular carcinoma in a Scottish population. Haydon GH, et al. **Gut** 1997 Jan;40(1):128–32

Hepatitis C virus 1b, cirrhosis, and hepatocellular carcinoma [editorial; comment] Brechot C. **Hepatology** 1997 Mar; 25(3):772–4. Comment on: Hepatology 1997 Mar;25(3):754–8.

Hepatitis C virus genotypes and risk of hepatocellular carcinoma in cirrhosis: a prospective study [see comments] Bruno S, et al. **Hepatology** 1997 Mar;25(3):754–8. Comment in: Hepatology 1997 Mar;25(3):772–4.

A cytological study of hepatitis B surface antigen localization using orcein staining in hepatocellular carcinoma. Panicker JN, et al. **Indian J Med Res** 1996 Dec;104:374–6

Inhibition of HBsAg secretion from Alexander cell line by Phyllanthus amarus. Jayaram S, et al.
Indian J Pathol Microbiol 1996 Jul;39(3):211–5

Hepatitis C virus 1b is the dominant genotype in HCV-related carcinogenesis: a case-control study. Hatzakis A, et al. **Int J Cancer** 1996 Sep 27;68(1):51–3

Differential prevalence of hepatitis C virus subtypes in healthy blood donors, patients on maintenance hemodialysis, and patients with hepatocellular carcinoma in Surabaya, Indonesia. Soetjipto, et al.
J Clin Microbiol 1996 Dec;34(12):2875–80

Hepatitis C virus genotypes in patients with hepatocellular carcinoma. Akkiz H, et al.
J Environ Pathol Toxicol Oncol 1996;15(2–4):85–8

Mutations in a hydrophilic part of the core gene of hepatitis C virus in patients with hepatocellular carcinoma in China. Shimizu I, et al. **J Gastroenterol** 1997 Feb;32(1):47–55

Case report: development of hepatocellular carcinoma in a patient with chronic hepatitis C infection after a complete and sustained response to interferon-alpha. Hirashima N, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):955–8

Evaluation of hepatitis B and C viral markers: clinical significance in Asian and Caucasian patients with hepatocellular carcinoma in the United States of America. Hwang SJ, et al. **J Gastroenterol Hepatol** 1996 Oct; 11(10):949–54

Relationship between sustained elevation of serum alanine aminotransferase and progression from cirrhosis to hepatocellular carcinoma: comparison in patients with hepatitis B virus- and hepatitis C virus-associated cirrhosis [see comments] Sato A, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):944–8. Comment in: J Gastroenterol Hepatol 1996 Oct;11(10):942–3.

Different clinicopathological features of hepatitis B- and C-related hepatocellular carcinoma [editorial; comment] Shiratori Y. **J Gastroenterol Hepatol** 1996 Oct;11(10):942–3 . Comment on: J Gastroenterol Hepatol 1996 Oct;11(10):944–8.

Immunohistochemical evidence of insulin-like growth factor II in human small hepatocellular carcinoma with hepatitis C virus infection: relationship to fatty change in carcinoma cells. Sohda T, et al. **J Gastroenterol Hepatol** 1997 Mar; 12(3):224–8

Inhibition of the expression of hepatitis A and B viruses (HAV and HBV) proteins by interferon in a human hepatocarcinoma cell line (PLC/PRF/5). Berthillon P, et

al. **J Hepatol** 1996 Jul;25(1):15–9

Persistent expression of hepatitis C virus genome in primary tumor and adrenal metastasis of a hepatocellular carcinoma developed in a non-cirrhotic liver [letter] Herr W, et al. **J Hepatol** 1996 Jul;25(1):122

Hepatitis C virus infection in the development of hepatocellular carcinoma in cirrhosis. Naoumov NV, et al. **J Hepatol** 1997 Aug;27(2):331–6

Identification of hepatitis B virus integration in hepatitis C virus-infected hepatocellular carcinoma tissues. Urashima T, et al. **J Hepatol** 1997 Apr;26(4):771–8

Prevalence and genotype of hepatitis G virus in Chinese professional blood donors and hepatitis patients. Wang HL, et al. **J Infect Dis** 1997 May;175(5):1229–33

Persistence of hepatitis C virus RNA in established human hepatocellular carcinoma cell lines. Tsuboi S, et al. **J Med Virol** 1996 Feb;48(2):133–40

Hepatitis B virus transcriptional activators: mechanisms and possible role in oncogenesis. Henkler F F, et al. **J Viral Hepat** 1996 May;3(3):109–21 (129 ref.)

Relationship between hepatocyte proliferation and hepatitis delta virus replication in neoplastic and non-neoplastic liver tissues. Negro F, et al. **J Viral Hepat** 1997 Mar; 4(2):93–8 (26 ref.)

A t(3;8) chromosomal translocation associated with hepatitis B virus intergration involves the carboxypeptidase N locus. Pineau P, et al. **J Virol** 1996 Oct;70(10):7280–4

Serologically defined genotypes of hepatitis C virus among Japanese patients with chronic hepatitis C. Mizoguchi N, et al. **J Virol Methods** 1996 Apr 26;58(1–2):71–9

Propagation of human astrovirus in the PLC/PRF/5 hepatoma cell line. Taylor MB, et al. **J Virol Methods** 1997 Aug;67(1):13–8

Comparison of clinical features and survival in patients with hepatitis B and C virus-related hepatocellular carcinoma. Tanizaki H, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):67–70

Detection of serum HBV DNA and anti-HCV antibody in HBsAg seronegative patients with hepatocellular carcinoma in Japan. Tokeshi S, et al. **Kansenshogaku Zasshi** 1996 Feb;70(2):103–7

Hepatitis C virus genotypes in Korea and their relationship to clinical outcome in type C chronic liver diseases. Han CJ, et al. **Korean J Intern Med** 1997 Jan;12(1):21–7

Viral loads and E2/NS1 region sequences of hepatitis C virus in hepatocellular carcinoma and surrounding liver. Park CK, et al. **Korean J Intern Med** 1997 Jan;12(1):28–33

Accumulation of genetic alterations in a human hepatoma cell line transfected with hepatitis B virus. Livezey KW, et al. **Mutat Res** 1997 Jul 3;377(2):187–98

Preventing hepatitis B in people in close contact with hepatocellular carcinoma patients. Oberle MW, et al. **Public Health Rep** 1997 Jan–Feb;112(1):63–5

Hepatitis C virus and hepatocellular carcinoma. Colombo M, et al. **Res Virol** 1997 Mar–Apr;148(2):127–34

Minor role of hepatitis B and C virus infection in the etiology of hepatocellular carcinoma in a low-endemic area. Kaczynski J, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):809–13

Hepatitis and cancer: genetic aspects. Olsson R. **Scand J Gastroenterol Suppl** 1996;220:115–20 (53 ref.)

Hepatitis B and C virus and hepatocellular carcinoma. Olubuyide IO, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):38–41

Hepatitis C virus genotypes in patients with hepatocellular carcinoma and cholangiocarcinoma in Thailand. Songsivilai S, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):505–7

Is the DNA repair system involved in hepatitis-B-virus-mediated hepatocellular carcinogenesis? Butel JS, et al. **Trends Microbiol** 1996 Mar;4(3):119–24 (55 ref.)

Hepatitis B virus-induced hepatocellular carcinoma: possible roles for HBx. Cromlish JA. **Trends Microbiol** 1996 Jul; 4(7):270–4 (61 ref.)

[Detection of hepatitis B virus DNA and hepatitis C virus RNA in human hepatocellular carcinoma by polymerase chain reaction] Zhang H, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):70–2 (Eng. Abstr.) **(Chi)**

[Analysis of hepatitis C virus (HCV) genotypes in hepatocellular carcinoma] Shirakawa H. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):677–88 (Eng. Abstr.) **(Jpn)**

[Molecular biology, diagnosis and treatment of hepatocellular carcinoma] Toda G, et al. **Nippon Naika Gakkai Zasshi** 1997 Jan 10;86(1):146–53 (17 ref.) **(Jpn)**

[Detection of GBV-C RNA among non B non C hepatocellular carcinoma patients] Kitamoto M, et al. **Nippon Rinsho** 1997 Mar;55(3):583–6 (6 ref.) (Eng. Abstr.) **(Jpn)**

CARCINOMA, HYPERNEPHROID see **CARCINOMA, RENAL CELL**

CARCINOMA IN SITU

Common questions about ductal carcinoma in situ. Dell DD. **Am J Nurs** 1997 May;97(5):61–3, 65–6

Vaginal intraepithelial neoplasia: risk factors for persistence, recurrence, and invasion and its management. Sillman FH, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):93–9

Ductal carcinoma in situ of the breast. Silverstein MJ. **Br J Surg** 1997 Feb;84(2):145–6

Use of predictors of recurrence to plan therapy for DCIS of the breast. Silverstein MJ, et al. **Oncology (Huntingt)** 1997 Mar;11(3):393–406, 409–10; discussion 413–5 (74 ref.)

[Early cancer--the concept, and its relationship with carcinoma in situ, superficial carcinoma and micro-carcinoma] Tsuchiya E. **Nippon Rinsho** 1996 May; 54(5):1201–6 (18 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Low adrenal androgen output in patients with abnormal laryngeal epithelium. Colquhoun-Flannery W, et al. **Clin Otolaryngol** 1996 Oct;21(5):439–41

Antibody levels against alpha-galactosyl epitopes in sera of patients with squamous intraepithelial lesions and early invasive cervical carcinoma. Tremont-Lukats IW, et al. **Gynecol Oncol** 1997 Feb;64(2):207–12

BLOOD SUPPLY

Assessment of angiogenesis in human cervical lesions. Ravazoula P, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3861–4

Angiogenesis in vulvar intraepithelial neoplasia. Bancher-Todesca D, et al. **Gynecol Oncol** 1997 Mar; 64(3):496–500

Distinct angiogenic patterns are associated with high-grade in situ ductal carcinomas of the breast. Engels K, et al. **J Pathol** 1997 Feb;181(2):207–12

Up-regulation of thymidine phosphorylase expression is associated with a discrete pattern of angiogenesis in ductal carcinomas in situ of the breast. Engels K, et al. **J Pathol** 1997 Aug;182(4):414–20

Angiogenesis and inflammation in ductal carcinoma in situ of the breast. Lee AH, et al. **J Pathol** 1997 Feb;181(2):200–6

Tumor invasion and angiogenesis in early esophageal squamous cell carcinoma. Kuwano H, et al. **J Surg Oncol** 1997 Jul;65(3):188–93

Angiogenesis in squamous cell carcinoma in situ and microinvasive carcinoma of the uterine cervix [see comments] Abulafia O, et al. **Obstet Gynecol** 1996 Dec; 88(6):927–32. Comment in: Obstet Gynecol 1997 Mar;89(3):482–3.

Angiogenesis in squamous cell carcinoma in situ and microinvasive carcinoma of the uterine cervix [letter; comment] Smith-McCune K. **Obstet Gynecol** 1997 Mar; 89(3):482–3. Comment on: Obstet Gynecol 1996 Dec;88(6):927–32.

CHEMISTRY

Differential expression of gp200-MR6 molecule in benign hyperplasia and down-regulation in invasive carcinoma of the breast. al-Tubuly AA, et al. **Br J Cancer** 1996 Oct; 74(7):1005–11

p53 protein expression in ductal carcinoma in situ (DCIS) of the breast. Rajan PB, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):283–90

Overexpression of eukaryotic initiation factor 4E (eIF4E) in breast carcinoma. Li BD, et al. **Cancer** 1997 Jun 15; 79(12):2385–90

The expression of CD44 adhesion molecules on seminoma cells. A new marker for early detection of the tumor [letter; comment] Rajpert-De Meyts E, et al. **Cancer** 1996 Dec 1;78(11):2443–5. Comment on: Cancer 1996 Feb 1;77(3):429–30.

Immunohistochemical detection of oestrogen receptors in ductal carcinoma in situ of the breast. Karayiannakis AJ, et al. **Eur J Surg Oncol** 1996 Dec;22(6):578–82

Immunohistochemical localization of integrins and basement membrane components in colorectal epithelial tumors correlates with their histologic architecture. Ban S, et al. **Gen Diagn Pathol** 1997 Feb;142(3–4):165–73

Platelet-derived growth factor A and B chains and the alpha and beta receptors in prostatic intraepithelial neoplasia. Fudge K, et al. **Prostate** 1996 Nov;29(5):282–6

Immunoreactive p53 and metallothionein expression in duct carcinoma in situ of the breast. No correlation. Douglas-Jones AG, et al. **Virchows Arch** 1997 May; 430(5):373–9

[Estradiol receptors in cervical intraepithelial neoplasia and cervico-uterine cancer] González-Sánchez JL, et al. **Ginecol Obstet Mex** 1996 Oct;64:438–42 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

A critical appraisal of six modern classifications of ductal carcinoma in situ of the breast (DCIS): correlation with grade of associated invasive carcinoma. Douglas-Jones AG, et al. **Histopathology** 1996 Nov;29(5):397–409

Comparison of cytomorphological and architectural heterogeneity in mammographically-detected ductal carcinoma in situ. Harrison M, et al. **Histopathology** 1996 May;28(5):445–50

Relationship of a new histological categorization of ductal carcinoma in situ of the breast with size and the immunohistochemical expression of p53, c-erb B2, bcl-2, and ki-67 [see comments] Mack L, et al. **Hum Pathol** 1997 Aug;28(8):974–9. Comment in: Hum Pathol 1997 Aug;28(8):877–80.

Classification of ductal carcinoma in situ: striving for clinical relevance in the era of breast conserving therapy [editorial; comment] Schnitt SJ, et al. **Hum Pathol** 1997 Aug; 28(8):877–80. Comment on: Hum Pathol 1997 Aug;28(8):967–73. Comment on: Hum Pathol 1997 Aug;28(8):974–9.

Ductal carcinoma in situ of the breast: reproducibility of histological subtype analysis [see comments] Scott MA, et al. **Hum Pathol** 1997 Aug;28(8):967–73. Comment in: Hum Pathol 1997 Aug;28(8):877–80.

Classification of duct carcinoma in situ (DCIS) with a characterization of high grade lesions: defining cohorts for chemoprevention trials. Lagios MD. **J Cell Biochem Suppl** 1996;25:108–11 (21 ref.)

The role of pathology in premalignancy and as a guide for treatment and prognosis in breast cancer. Simpson JF, et al. **Semin Oncol** 1996 Aug;23(4):428–35 (75 ref.)

COMPLICATIONS

Human aberrant crypt foci with carcinoma in situ from a patient with sporadic colon cancer. Konstantakos AK, et al. **Gastroenterology** 1996 Sep;111(3):772–7

Lateral neck abscess caused by Streptococcus bovis in a patient with undiagnosed colon cancer. Goumas PD, et al. **J Laryngol Otol** 1997 Jul;111(7):666–8

Idiopathic CD4+ T-lymphocytopenia and recurrent vulvar intraepithelial neoplasia. Park K, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):712–4

[Multiple clear cell kidney cysts and in situ renal clear cell carcinoma in a case of Hippel-Lindau disease] Bralet MP, et al. **Ann Pathol** 1996;16(3):207–9 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Endoscopic brush cytology of the upper urinary tract. Evaluation of its efficacy and potential limitations in diagnosis. Dodd LG, et al. **Acta Cytol** 1997 Mar–Apr; 41(2):377–84 (45 ref.)

Adrenal androgen-secreting carcinoma in a fertile woman. Falsetti L, et al. **Acta Eur Fertil** 1995 May–Jun;26(3):117–21

Papanicolaou smear sensitivity for adenocarcinoma in situ of the cervix. A study of 34 cases [see comments] Lee KR, et al. **Am J Clin Pathol** 1997 Jan;107(1):30–5. Comment in: Am J Clin Pathol 1997 Jul;108(1):114.

Adequate tissue sampling of prostate core needle biopsies. Renshaw AA. **Am J Clin Pathol** 1997 Jan;107(1):26–9

Cytologic nuclear grading of fine needle cytopunctures of breast carcinoma. Comparison with histologic nuclear grading and image cytometric data. Briffod M, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):114–22

Surgical biopsy findings in patients with atypical hyperplasia diagnosed by stereotaxic core needle biopsy. Tocino I, et al. **Ann Surg Oncol** 1996 Sep;3(5):483–8

Ultrasound in the detection of breast cancer associated with isolated clustered microcalcifications, mammographically identified. Ranieri E, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2831–5

Ductal carcinoma in situ. Part I: Definition and diagnosis. Delaney G, et al. **Aust N Z J Surg** 1997 Feb–Mar; 67(2–3):81–93 (149 ref.)

Breast reduction and carcinoma-in-situ [letter] Villafane O, et al. **Br J Plast Surg** 1996 Oct;49(7):499

Magnetic resonance galactography for a patient with nipple discharge. Yoshimoto M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):87–90

Diagnosis of carcinoma in situ of the pancreas by peroral pancreatoscopy and pancreatoscopic cytology. Uehara H, et al. **Cancer** 1997 Feb 1;79(3):454–61

Peoscopic diagnosis of flat condyloma and penile intraepithelial neoplasia. IV. Urethral reservoir. Kotoulas IG, et al. **Gynecol Obstet Invest** 1996;41(1):55–60

Human papillomavirus DNA detection in cervical specimens by hybrid capture: correlation with cytologic and histologic diagnoses of squamous intraepithelial lesions of the cervix. Hall S, et al. **Gynecol Oncol** 1996 Sep; 62(3):353–9

Limited value of the NKI/C3-antibody for the differential diagnosis of Paget's disease of the nipple and intra-epidermal malignant melanoma. Biesterfeld S, et al. **Histopathology** 1996 Mar;28(3):269–70

Carcinoma in situ involving sclerosing adenosis [letter; comment] Fechner RE. **Histopathology** 1996 Jun;28(6):570 . Comment on: Histopathology 1995 Sep;27(3):269–73.

Endocervical tubal metaplasia and adenocarcinoma in situ: role of immunohistochemistry for carcinoembryonic antigen and vimentin in differential diagnosis. Marques T, et al. **Histopathology** 1996 Jun;28(6):549–50

The role of pre-operative diagnosis in breast cancer. Pinder SE, et al. **Histopathology** 1996 Jun;28(6):563–6

Ductal carcinoma in situ [letter; comment] Rosai J. **Hum Pathol** 1996 Nov;27(11):1247. Comment on: Hum Pathol 1996 Jul;27(7):744.

Detection and enrichment of carcinoma-in-situ cells in semen by an immunomagnetic method using monoclonal antibody M2A. Meng FJ, et al. **Int J Androl** 1996 Dec;19(6):365–70

MR lesion detection in a breast cancer population. Obdeijn IM, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):849–54

Clinical Significance of a cervical cytologic diagnosis of atypical squamous cells of undetermined significance. Favoring a reactive process or low grade squamous intraepithelial lesion. Gonzalez D, et al. **J Reprod Med** 1996 Oct;41(10):719–23

Laser induced autofluorescence diagnosis of bladder tumors:

dependence on the excitation wavelength. Anidjar M, et al. **J Urol** 1996 Nov;156(5):1590–6
Pitfalls in diagnostic cervicovaginal cytology. Sidawy MK, et al. **Monogr Pathol** 1997;(39):1–15 (45 ref.)
Stereotactic breast biopsy of atypical ductal hyperplasia and ductal carcinoma in situ lesions: improved accuracy with directional, vacuum-assisted biopsy. Burbank F. **Radiology** 1997 Mar;202(3):843–7
MR imaging of ductal carcinoma in situ. Orel SG, et al. **Radiology** 1997 Feb;202(2):413–20
Three-dimensional RODEO breast MR imaging of lesions containing ductal carcinoma in situ. Soderstrom CE, et al. **Radiology** 1996 Nov;201(2):427–32
[Burned-out tumor and carcinoma-in-situ of the testis mimicking an extragonadal germ cell tumor: a case report] Kayada K, et al. **Hinyokika Kiyo** 1996 Aug;42(8):613–6 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Successful treatment of recurrent corneal intraepithelial neoplasia with topical mitomycin C. Tseng SH, et al. **Cornea** 1997 Sep;16(5):595–7
Ukrain treatment in carcinoma of the cervix (case report). Kroiss T, et al. **Drugs Exp Clin Res** 1996;22(3–5):255–7
A review of clinical studies of bropirimine immunotherapy of carcinoma in situ of the bladder and upper urinary tract. Sarosdy MF. **Eur Urol** 1997;31 Suppl 1:20–6 (36 ref.)
Treatment of carcinoma in situ of the urinary bladder with bropirimine. Witjes JA. **Eur Urol** 1997;31 Suppl 1:27–30 (16 ref.)
Molecular follow-up of a preinvasive bronchial lesion treated by 13-cis-retinoic acid. Thiberville L, et al. **Hum Pathol** 1997 Jan;28(1):108–10
Topical 5-fluorouracil in treating epithelial neoplasia of the conjunctiva and cornea. Yeatts RP, et al. **Ophthalmology** 1995 Sep;102(9):1338–44
Update on the Dutch Cooperative Trial: mitomycin versus bacillus Calmette-Guérin-Tice versus bacillus Calmette-Guérin RIVM in the treatment of patients with pTA-pT1 papillary carcinoma and carcinoma in situ of the urinary bladder. Dutch South East Cooperative Urological Group. Witjes WP, et al. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):10–6
[Bropirimine (U-54461S) late phase II clinical study for carcinoma in situ of the bladder. Japan Bropirimine Study Group] Akaza H, et al. **Gan To Kagaku Ryoho** 1997 Jan; 24(1):77–85 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Differential expression of telomerase activity in human cervical cancer and cervical intraepithelial neoplasia lesions. Pao CC, et al. **J Clin Oncol** 1997 May;15(5):1932–7
Glutathione S-transferase pi-class as a tumour marker in lingual preneoplastic and neoplastic lesions of rats and humans. Li TJ, et al. **Virchows Arch** 1997 Jul;431(1):37–43

EPIDEMIOLOGY

Stage of breast and cervical cancer diagnosis in disadvantaged neighborhoods: a prevention policy perspective. Breen N, et al. **Am J Prev Med** 1996 Sep–Oct; 12(5):319–26
Risk of contralateral breast cancer among women with carcinoma in situ of the breast. Habel LA, et al. **Ann Surg** 1997 Jan;225(1):69–75
Incidence of invasive cancers following carcinoma in situ of the cervix. Levi F, et al. **Br J Cancer** 1996 Oct; 74(8):1321–3
Limited education as a risk factor in cervical cancer. Corral F, et al. **Bull Pan Am Health Organ** 1996 Dec;30(4):322–9
The association of ethnicity and the incidence of mammary carcinoma in situ in women: 11,436 cases from the California Cancer Registry. Saltzstein SL. **Cancer Detect Prev** 1997;21(4):361–9
Risk factors for in situ breast cancer. Longnecker MP, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):961–5
Trends of in situ carcinoma of the breast in Vaud, Switzerland. Levi F, et al. **Eur J Cancer** 1997 May; 33(6):903–6
Prevalence of contralateral testicular intraepithelial neoplasia in patients with testicular germ cell neoplasms. Dieckmann KP, et al. **J Clin Oncol** 1996 Dec;14(12):3126–32
Trends in squamous cell carcinoma of the vulva: the influence of vulvar intraepithelial neoplasia. Jones RW, et al. **Obstet Gynecol** 1997 Sep;90(3):448–52
Vulvar intraepithelial neoplasia and vulvar cancer. Edwards CL, et al. **Obstet Gynecol Clin North Am** 1996 Jun; 23(2):295–324 (81 ref.)
Ovarian intraepithelial neoplasia and ovarian cancer. Gershenson DM, et al. **Obstet Gynecol Clin North Am** 1996 Jun;23(2):475–543 (314 ref.)
Comparison of the relative incidence of impalpable invasive breast carcinoma and ductal carcinoma in situ in cancers detected in patients older and younger than 50 years of age. Evans WP 3rd, et al. **Radiology** 1997 Aug; 204(2):489–91
[Cervico-uterine cancer and age] Verduzca Rodríguez LA, et al. **Ginecol Obstet Mex** 1997 Apr;65:119–22 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Time trend of female breast carcinoma in situ by race and histology in Connecticut, USA. Zheng T, et al. **Eur J Cancer** 1997 Jan;33(1):96–100

ETIOLOGY

Malignancy arising in seborrheic keratosis: a report of two cases. Yap WM, et al. **Ann Acad Med Singapore** 1997 Mar; 26(2):235–7 (15 ref.)
Multifocal gastric neoplasia after recurrent laser therapy for the watermelon stomach. Bernstein CN, et al. **Can J Gastroenterol** 1997 Jul–Aug;11(5):403–6
Effect of caloric restriction on pre-malignant and malignant stages of mammary carcinogenesis. Zhu Z, et al. **Carcinogenesis** 1997 May;18(5):1007–12
Squamous cell carcinoma in situ arising within clear cell acanthoma. Parsons ME, et al. **Dermatol Surg** 1997 Jun; 23(6):487–8
Fulminant course of a microinvasive vulvar carcinoma in an immunosuppressed woman. Volgger B, et al. **Gynecol Oncol** 1997 Apr;65(1):177–9
Non-melanoma skin tumors occurring on a Japanese psoriatic patient treated with longterm photochemotherapy [letter] Tamada Y, et al. **J Dermatol** 1997 Aug;24(8):552–3
Carcinoma in situ of the penis in a 76-year-old circumcised man. Cold CJ, et al. **J Fam Pract** 1997 Apr;44(4):407–10 (33 ref.)
Comparison of risk factors for ductal carcinoma in situ and invasive breast cancer. Kerlikowske K, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):76–82

GENETICS

Mammography of breast carcinoma in women who have mutations of the breast cancer gene BRCA1: initial experience. Helvie MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1599–602
The differential expression of the HER-2/neu oncogene among high-risk human papillomavirus-infected glandular lesions of the uterine cervix. Roland PY, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):133–8
Analysis of loss of heterozygosity on chromosome 11q13 in atypical ductal hyperplasia and in situ carcinoma of the breast. Chuaqui RF, et al. **Am J Pathol** 1997 Jan; 150(1):297–303
Genetic changes in intraductal breast cancer detected by comparative genomic hybridization. Kuukasjärvi T, et al. **Am J Pathol** 1997 Apr;150(4):1465–71
X inactivation in human testicular tumors. XIST expression and androgen receptor methylation status. Looijenga LH, et al. **Am J Pathol** 1997 Aug;151(2):581–90
Amplification of CCND1 and expression of its protein product, cyclin D1, in ductal carcinoma in situ of the breast. Simpson JF, et al. **Am J Pathol** 1997 Jul;151(1):161–8
Monoclonal origin of vulvar intraepithelial neoplasia and some vulvar hyperplasias. Tate JE, et al. **Am J Pathol** 1997 Jan;150(1):315–22
Abnormal expression of CCND1 and RB1 in resection margin epithelia of lung cancer patients. Betticher DC, et al.. **Br J Cancer** 1997;75(12):1761–8
Microsatellite instability and loss of heterozygosity in mammary carcinoma and its probable precursors. Dillon EK, et al. **Br J Cancer** 1997;76(2):156–62
Mutation of the TP53 gene and allelic imbalance at chromosome 17p13 in ductal carcinoma in situ. Munn KE, et al. **Br J Cancer** 1996 Nov;74(10):1578–85
TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103–9
Cytogenetic abnormalities in an in situ ductal carcinoma and five prophylactically removed breasts from members of a family with hereditary breast cancer. Teixeira MR, et al. **Breast Cancer Res Treat** 1996;38(2):177–82
Alterations of the p53 tumor suppressor gene in carcinoma in situ of the testis. Kuczyk MA, et al. **Cancer** 1996 Nov 1;78(9):1958–66
Microsatellite instability in in situ and invasive sporadic breast cancers of Japanese women. Toyama T, et al. **Cancer Lett** 1996 Nov 29;108(2):205–9
Deletion map of chromosome 16q in ductal carcinoma in situ of the breast: refining a putative tumor suppressor gene region. Chen T, et al. **Cancer Res** 1996 Dec 15; 56(24):5605–9
Genetic progression, histological grade, and allelic loss in ductal carcinoma in situ of the breast. Fujii H, et al. **Cancer Res** 1996 Nov 15;56(22):5260–5
Construction of a representative cDNA library from prostatic intraepithelial neoplasia. Krizman DB, et al. **Cancer Res** 1996 Dec 1;56(23):5380–3
High levels of allele loss at the FHIT and ATM genes in non-comedo ductal carcinoma in situ and grade I tubular invasive breast cancers. Man S, et al. **Cancer Res** 1996 Dec 1;56(23):5484–9
Loss of heterozygosity on chromosome 11q13 in lobular lesions of the breast using tissue microdissection and polymerase chain reaction. Nayar R, et al. **Hum Pathol** 1997 Mar;28(3):277–82
Analysis of clonality by X chromosome inactivation in uterine cervix cancer. Ko HM, et al. **J Korean Med Sci** 1997 Aug;12(4):322–6
ESX: a structurally unique Ets overexpressed early during human breast tumorigenesis. Chang CH, et al. **Oncogene** 1997 Apr 3;14(13):1617–22
Comparative genomic hybridisation of ductal carcinoma in situ of the breast: identification of regions of DNA amplification and deletion in common with invasive breast carcinoma. James LA, et al. **Oncogene** 1997 Mar 6; 14(9):1059–65
Immunohistochemical determination of p53 protein in prostatic cancer and prostatic intraepithelial neoplasms. Yaman O, et al. **Urol Int** 1997;58(4):199–202
Significance of p53 overexpression in urinary bladder transitional cell carcinoma in situ before and after bacillus Calmette-Guérin treatment. Ick K, et al. **Urology** 1997 Apr; 49(4):541–6; discussion 546–7
[Effect of hereditary factors on tolerance for surgical treatment in patients with lung cancer] Spintsyn VA, et al. **Genetika** 1996 May;32(5):691–701 (Eng. Abstr.) **(Rus)**

HISTORY

Summary of effect of intravesical bacillus Calmette-Guerin (BCG) on carcinoma in situ of the bladder (by Harry W. Herr, MD, Carl M. Pinsky, MD, Willet F. Whitmore, Jr, MD, Herbert F. Oettgen, MD, and Myron R. Melamed, MD). 1983. Herr HW, et al. **Semin Urol Oncol** 1997 May; 15(2):80–5

IMMUNOLOGY

Prognostic significance of in situ carcinoma associated with invasive breast carcinoma: a natural experiment in cancer immunology? [letter] Naresh KN, et al. **Cancer** 1997 May 1;79(9):1846–8
Specificity of human cytotoxic T lymphocytes induced by a human papillomavirus type 16 E7-derived peptide. Jochmus I, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1689–95
Alexithymia, immunity and cervical intraepithelial neoplasia: replication. Todarello O, et al. **Psychother Psychosom** 1997; 66(4):208–13

METABOLISM

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103–9
Expression of interleukin-1beta in human breast carcinoma. Jin L, et al. **Cancer** 1997 Aug 1;80(3):421–34
Differential expression of psoriasin messenger RNA between in situ and invasive human breast carcinoma [published erratum appears in Cancer Res 1997 Feb 15;57(4):793] Leygue E, et al. **Cancer Res** 1996 Oct 15;56(20):4606–9
Differential expression of annexin I in human mammary ductal epithelial cells in normal and benign and malignant breast tissues. Ahn SH, et al. **Clin Exp Metastasis** 1997 Mar;15(2):151–6
Induction of membrane-type matrix metalloproteinase 1 (MT1-MMP) expression in human fibroblasts by breast adenocarcinoma cells. Polette M, et al. **Clin Exp Metastasis** 1997 Mar;15(2):157–63
p53 protein expression, cell proliferation and steroid hormone receptors in ductal and lobular in situ carcinomas of the breast. Rudas M, et al. **Eur J Cancer** 1997 Jan;33(1):39–44
Ras p21 protein immunoreactivity and its relationship to p53 expression and prognosis in gallbladder and extrahepatic biliary carcinoma. Lee CS. **Eur J Surg Oncol** 1997 Jun; 23(3):233–7
E-cadherin and integrin cell adhesion molecule expression in invasive and in situ carcinoma of the cervix. Jeffers MD, et al. **Gynecol Oncol** 1997 Mar;64(3):481–6
Epithelial hyperplasia of usual type expresses both S100-alpha and S100-beta in a heterogeneous pattern but ductal carcinoma in situ can express only S100-alpha in a monotonous pattern. Ichihara S, et al. **Histopathology** 1997 Jun;30(6):533–41
Relationship of a new histological categorization of ductal carcinoma in situ of the breast with size and the immunohistochemical expression of p53, c-erb B2, bcl-2, and ki-67 [see comments] Mack L, et al. **Hum Pathol** 1997 Aug;28(8):974–9. Comment in: Hum Pathol 1997 Aug;28(8):877–80.
Investigation of carcinoma in situ cells of testis by quantification of argyrophilic nucleolar organizer region associated proteins (AgNORs). Meng FJ, et al. **J Pathol** 1996 Oct;180(2):206–13
Strong correlation of basement membrane degradation with p53 inactivation and/or MDM2 overexpression in superficial urothelial carcinomas. Ozdemir E, et al. **J Urol** 1997 Jul;158(1):206–11
Expression of PCNA and p53 in esophageal dysplasia and esophageal carcinoma. Murakami S, et al. **Surg Today** 1997; 27(7):593–9
E-cadherin (E-cad) expression in duct carcinoma in situ (DCIS) of the breast. Gupta SK, et al. **Virchows Arch** 1997 Jan;430(1):23–8

PATHOLOGY

Cytology of "significant" breast ductal proliferations. Gangopadhyay M, et al. **Acta Cytol** 1997 Jul–Aug; 41(4):1112–20
"Atypical parakeratosis" cells in cervical carcinoma cytology [letter] Vela Velasquez CT. **Acta Cytol** 1997 Mar–Apr; 41(2):614–6
Bladder washing cytology. Comparison of two analytic methods and two proposed quantitative criteria for

carcinoma in situ. Wachtel MS, et al. **Acta Cytol** 1996 Sep-Oct;40(5):921-8

Quantitative pathology of laryngeal epithelial hyperplastic lesions. Cör A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 527:57-61

Quantitative immunocytochemical assays on frozen sections of p53: correlation to the follow-up of patients with breast carcinomas. Charpin C, et al. **Am J Clin Pathol** 1996 Nov; 106(5):640-6

Intraductal carcinoma associated with invasive carcinoma of the breast. A comparison of the two lesions with implications for intraductal carcinoma classification systems. Goldstein NS, et al. **Am J Clin Pathol** 1996 Sep; 106(3):312-8

Cancerization of small ectatic ducts of the breast by ductal carcinoma in situ cells with apocrine snouts: a lesion associated with tubular carcinoma. Goldstein NS, et al. **Am J Clin Pathol** 1997 May;107(5):561-6

Appropriate follow-up interval for biopsy confirmation of squamous intraepithelial lesions diagnosed by cervical smear cytology. Renshaw AA, et al. **Am J Clin Pathol** 1997 Sep;108(3):275-9

Extensive spread of a squamous cell carcinoma in situ of the esophagus: an unusual case. Aouad K, et al. **Am J Gastroenterol** 1996 Nov;91(11):2421-2

Monoclonal origin of vulvar intraepithelial neoplasia and some vulvar hyperplasias. Tate JE, et al. **Am J Pathol** 1997 Jan;150(1):315-22

Association of breast cancer with the finding of atypical ductal hyperplasia at core breast biopsy. Moore MM, et al. **Ann Surg** 1997 Jun;225(6):726-31; discussion 731-3

Prognostic value of nuclear grading assessed by image cytometry for node negative breast cancer patients. Kimijima I, et al. **Anticancer Res** 1996 Nov-Dec; 16(6C):3949-53

New immunodeficient (nude-scid, beige-scid) mice as excellent recipients of human skin grafts containing intraepidermal neoplasms. Takizawa Y, et al. **Arch Dermatol Res** 1997 Mar;289(4):213-8

Progressive increase of apoptosis in prostatic intraepithelial neoplasia and carcinoma: comparison between in situ end-labeling of fragmented DNA and detection by routine hematoxylin-eosin staining. Drachenberg CB, et al. **Arch Pathol Lab Med** 1997 Jan;121(1):54-8

Re: Adenocarcinoma in situ of the uterine cervix progressing to invasive adenocarcinoma [letter; comment] Chang T, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):132-3 . Comment on: Aust N Z J Obstet Gynaecol 1996 May;36(2):218-20.

Adenocarcinoma in situ of the uterine cervix progressing to invasive adenocarcinoma [see comments] Hocking GR, et al. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):218-20. Comment in: Aust N Z J Obstet Gynaecol 1997 Feb;37(1):132-3.

Mild cervical atypia: a management dilemma. Lim FK, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):437-40

Early-onset breast cancer--histopathological and prognostic considerations. Kollias J, et al. **Br J Cancer** 1997; 75(9):1318-23

Incidence of invasive cancers following carcinoma in situ of the cervix. Levi F, et al. **Br J Cancer** 1996 Oct; 74(8):1321-3

Diffuse intraepithelial sebaceous carcinoma of the conjunctiva [letter] Loeffler KU, et al. **Br J Ophthalmol** 1997 Feb;81(2):168

Bellini duct carcinoma of the kidney. Martínez Barba E, et al. **Br J Urol** 1997 Aug;80(2):342-4

Magnetic resonance galactography for a patient with nipple discharge. Yoshimoto M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):87-90

Pathobiological considerations relating to the treatment of intraductal carcinoma (ductal carcinoma in situ) of the breast [published erratum appears in CA Cancer J Clin 1997 Mar-Apr;47(2):68] Fisher ER. **CA Cancer J Clin** 1997 Jan-Feb;47(1):52-64 (48 ref.)

Diffuse pagetoid squamous cell carcinoma in situ of the esophagus: a case report. Chu P, et al. **Cancer** 1997 May 15;79(10):1865-70

Pathologic findings from the National Surgical Adjuvant Breast Project (NSABP) Protocol B-17. Five-year observations concerning lobular carcinoma in situ. Fisher ER, et al. **Cancer** 1996 Oct 1;78(7):1403-16

Lumpectomy margins and much more [editorial; comment] Fisher ER. **Cancer** 1997 Apr 15;79(8):1453-8; discussion 1459-60. Comment on: Cancer 1997 Apr 15;79(8):1568-73.

The relationship between shaved margin and inked margin status in breast excision specimens [see comments] Guidi AJ, et al. **Cancer** 1997 Apr 15;79(8):1568-73. Comment in: Cancer 1997 Apr 15;79(8):1453-8; discussion 1459-60.

Differences in cell proliferation and prognostic significance of proliferating cell nuclear antigen and Ki-67 antigen immunoreactivity in in situ and invasive carcinomas of the extrahepatic biliary tract. Lee CS. **Cancer** 1996 Nov 1; 78(9):1881-7

Prostatic intraepithelial neoplasia in surgical resections: relationship to coexistent adenocarcinoma and atypical adenomatous hyperplasia of the prostate. Skjørten FJ, et al. **Cancer** 1997 Mar 15;79(6):1172-9

Genetic progression, histological grade, and allelic loss in ductal carcinoma in situ of the breast. Fujii H, et al. **Cancer Res** 1996 Nov 15;56(22):5260-5

Age-stratified incidence of unsuspected mammary carcinoma in women with fibroadenoma. Ricci A Jr, et al. **Conn Med** 1996 Oct;60(10):587-90

Are epithelial cells in fat or connective tissue a reliable indicator of tumor invasion in fine-needle aspiration of the breast? Maygarden SJ, et al. **Diagn Cytopathol** 1997 Feb; 16(2):137-42

Cytologic features of ductal carcinoma in situ. Theocharous C, et al. **Diagn Cytopathol** 1996 Dec;15(5):367-73

Flow cytometry in squamous cell esophageal cancer and precancerous lesions. Chanvitan A, et al. **Dis Esophagus** 1997 Jul;10(3):206-10

Biological characteristics of esophageal squamous cell carcinoma associated with contiguous intraepithelial carcinoma. Ikeguchi M, et al. **Dis Esophagus** 1997 Apr; 10(2):128-33

Early diagnosis of mucosal squamous cell carcinoma of the esophagus: including two interesting cases of superficial spreading-type and multicentric-type squamous cell carcinomas. Kimura H, et al. **Dis Esophagus** 1997 Jul; 10(3):201-5

Enteric type villoglandular papillary adenocarcinoma of the uterine cervix associated with in situ squamous cell carcinoma. Case report and review of the literature. Skopelitou A, et al. **Eur J Gynaecol Oncol** 1996; 17(4):309-14 (42 ref.)

Is vulvoscopy a reliable diagnostic technique for high grade vulvar intraepithelial neoplasia? [letter] Stefanon B, et al. **Eur J Gynaecol Oncol** 1997;18(3):211

Pathologic definition of endoscopic resection specimens [letter; comment] Yarze JC. **Gastrointest Endosc** 1997 Feb; 45(2):216. Comment on: Gastrointest Endosc 1996 Jul;44(1):63-5.

Peoscopic diagnosis of flat condyloma and penile intraepithelial neoplasia. Clinical manifestation. Cardamakis E, et al. **Gynecol Obstet Invest** 1997;43(4):255-60

MIB 1 immunostaining in cervical intraepithelial neoplasia: prognostic significance in mild and moderate lesions. Garzetti GG, et al. **Gynecol Obstet Invest** 1996;42(4):261-6

The association of age and sexual history with the severity of the histological findings in women with cervical intraepithelial neoplasia. Reis FM, et al. **Gynecol Obstet Invest** 1996;42(4):258-60

A mapping of histology and cell proliferation in human bladder cancer: an immunohistochemical study. Igawa M, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):93-7

Choriocarcinoma associated with transitional cell carcinoma in-situ of the ureter. Deodhare S, et al. **Histopathology** 1996 Apr;28(4):363-5

Comparison of cytomorphological and architectural heterogeneity in mammographically-detected ductal carcinoma in situ. Harrison M, et al. **Histopathology** 1996 May;28(5):445-50

Heterogeneity of gonadoblastoma germ cells: similarities with immature germ cells, spermatogonia and testicular carcinoma in situ cells. Jørgensen N, et al. **Histopathology** 1997 Feb;30(2):177-86

Cancerization of phyllodes tumour [letter] Naresh KN. **Histopathology** 1997 Jan;30(1):98-9

Ductal carcinoma in situ of the breast: the clinical significance of histological classification. Quinn CM, et al. **Histopathology** 1997 Feb;30(2):113-9

Breast papillomas with atypical ductal hyperplasia: a clinicopathologic study. Raju U, et al. **Hum Pathol** 1996 Nov;27(11):1231-8

Ductal carcinoma in situ [letter; comment] Rosai J. **Hum Pathol** 1996 Nov;27(11):1247. Comment on: Hum Pathol 1996 Jul;27(7):744.

Ductal carcinoma in situ of the breast: reproducibility of histological subtype analysis [see comments] Scott MA, et al. **Hum Pathol** 1997 Aug;28(8):967-73. Comment in: Hum Pathol 1997 Aug;28(8):877-80.

Altered expression of mdm-2 and its association with p53 protein status, tumor-cell-proliferation rate and prognosis in cervical neoplasia. Dellas A, et al. **Int J Cancer** 1997 Aug 22;74(4):421-5

Evidence for the polyp-cancer sequence in gallbladder cancer. Harbison J, et al. **Ir Med J** 1997 Apr-May;90(3):98

Cytological and architectural heterogeneity in ductal carcinoma in situ of the breast. Quinn CM, et al. **J Clin Pathol** 1997 Jul;50(7):596-9

Primary branchial cleft carcinoma--a case report. Ohri AK, et al. **J Laryngol Otol** 1997 Jan;111(1):80-2

Relationship between the size and margin status of ductal carcinoma in situ of the breast and residual disease [see comments] Cheng L, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1356-60. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1330-1.

Predicting residual disease and local recurrence in patients with ductal carcinoma in situ [editorial; comment] Silverstein MJ. **J Natl Cancer Inst** 1997 Sep 17; 89(18):1330-1. Comment on: J Natl Cancer Inst 1997 Sep 17;89(18):1356-60.

Importance of the transitional zone between the cervical stroma and the parametrium in the treatment of cervical carcinoma. Tabata M, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):111-7

Glottic microinvasive carcinoma: is it different from carcinoma in situ? Nguyen C, et al. **J Otolaryngol** 1996 Aug;25(4):223-6

Computerized scene segmentation for the discrimination of architectural features in ductal proliferative lesions of the breast. Anderson NH, et al. **J Pathol** 1997 Apr; 181(4):374-80

Clinicopathologic analysis of 370 cases of vulvar intraepithelial neoplasia. Italian Study Group on Vulvar Disease. **J Reprod Med** 1996 Sep;41(9):665-70

Clinical Significance of a cervical cytologic diagnosis of atypical squamous cells of undetermined significance. Favoring a reactive process or low grade squamous intraepithelial lesion. Gonzalez D, et al. **J Reprod Med** 1996 Oct;41(10):719-23

Risk factors for recurrent VIN. Role of multifocality and grade of disease. Küppers V, et al. **J Reprod Med** 1997 Mar;42(3):140-4

Tumor invasion and angiogenesis in early esophageal squamous cell carcinoma. Kuwano H, et al. **J Surg Oncol** 1997 Jul;65(3):188-93

Is biopsy of the contralateral testis necessary in patients with germ cell tumors? Herr HW, et al. **J Urol** 1997 Oct; 158(4):1331-4 (29 ref.)

The significance of central pathology review in clinical studies of transitional cell carcinoma in situ [see comments] Sharkey FE, et al. **J Urol** 1997 Jan;157(1):68-70; discussion 70-1. Comment in: J Urol 1997 Jan;157(1):83-4.

Ureteral carcinoma in situ at radical cystectomy: does the margin matter? Silver DA, et al. **J Urol** 1997 Sep;158(3 Pt 1):768-71

Breast-duct endoscopy to study stages of cancerous breast disease. Love SM, et al. **Lancet** 1996 Oct 12; 348(9033):997-9

Invasive potential of carcinoma in situ of the cervix [comment] Morris M. **Lancet** 1997 Apr 5;349(9057):967. Comment on: Lancet 1997 Apr 5;349(9057):978-80.

Acral lentiginous melanoma (including in situ melanoma) arising in association with naevocellular naevi [see comments] Wong TY, et al. **Melanoma Res** 1996 Jun; 6(3):241-6. Comment in: Melanoma Res 1997 Feb;7(1):78.

Cytopathological findings on vaginal Papanicolaou smears after hysterectomy for benign gynecologic disease [see comments] Pearce KF, et al. **N Engl J Med** 1996 Nov 21; 335(21):1559-62. Comment in: N Engl J Med 1996 Nov 21;335(21):1599-600.

Endocervical curettage, cone margins, and residual adenocarcinoma in situ of the cervix. Denehy TR, et al. **Obstet Gynecol** 1997 Jul;90(1):1-6

Vulvar intraepithelial neoplasia and vulvar cancer. Edwards CL, et al. **Obstet Gynecol Clin North Am** 1996 Jun; 23(2):295-324 (81 ref.)

Ovarian intraepithelial neoplasia and ovarian cancer. Gershenson DM, et al. **Obstet Gynecol Clin North Am** 1996 Jun;23(2):475-543 (314 ref.)

Vaginal intraepithelial neoplasia and vaginal cancer. Wharton JT, et al. **Obstet Gynecol Clin North Am** 1996 Jun; 23(2):325-45 (32 ref.)

Immunosuppression and HIV in young patients with ocular surface dysplasia [letter] Karp CL. **Ophthalmology** 1997 Oct;104(10):1531

Late recurrences and the necessity for long-term follow-up in corneal and conjunctival intraepithelial neoplasia. Tabin G, et al. **Ophthalmology** 1997 Mar;104(3):485-92

Small-cell neuroendocrine carcinoma of the uterine cervix associated with micro-invasive squamous cell carcinoma and adenocarcinoma in situ. Toki T, et al. **Pathol Int** 1996 Jul;46(7):520-5

Early hepatocellular carcinoma macroscopically resembling adenomatous hyperplasia: pathological resemblance to carcinoma-in-situ. Wakasa K, et al. **Pathol Int** 1997 Jan; 47(1):54-9

Quantitative study of ductal breast cancer progression. A progression index (P.I.) for premalignant lesions and in situ carcinoma. Mariuzzi GM, et al. **Pathol Res Pract** 1996 May; 192(5):428-36

Phyllodes tumor with lobular carcinoma in situ and liposarcomatous stroma. Padmanabhan V, et al. **Pathology** 1997 May;29(2):224-6

Frequency and clinical significance of transition zone cancer in prostate cancer screening. Reissigl A, et al. **Prostate** 1997 Feb 1;30(2):130-5

Transitional cell carcinoma of the renal pelvis: a retrospective look at CT staging with pathologic correlation. Buckley JA, et al. **Radiology** 1996 Oct;201(1):194-8

Stereotactic core needle biopsy of multiple sites in the breast: efficacy and effect on patient care. Rosenblatt R, et al. **Radiology** 1996 Oct;201(1):67-70

Early squamous cell carcinoma of the lung: CT and pathologic correlation. Saida Y, et al. **Radiology** 1996 Oct; 201(1):61-5

Nasal septal pediculate carcinoma in situ: differential diagnosis. Lourenço EA, et al. **Rev Paul Med** 1996 Jul-Aug;114(4):1216-9

Combined malignant testicular tumor and splenogonadal fusion. A case story. Thomsen BM, et al. **Scand J Urol Nephrol** 1997 Aug;31(4):393-5

Intraepithelial lesions of the urinary bladder with a discussion of the histogenesis of urothelial neoplasia. Amin MB, et al. **Semin Diagn Pathol** 1997 May;14(2):84-97 (57 ref.)

Should the other testis be biopsied? Daugaard G, et al. **Semin Urol Oncol** 1996 Feb;14(1):8-12 (36 ref.)

Pathology and its importance in evaluating outcome in patients with superficial bladder cancer. Huben RP, et al. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):23-9 (23 ref.)

[Leukoplakia of the vocal cords. Diagnosis and treatment] Giovanni A, et al. **Ann Otolaryngol Chir Cervicofac** 1997;

THE PAPER AND INK USED IN THE ORIGINAL PUBLICATION MAY AFFECT THE QUALITY OF THE MICROFORM EDITION.

114(1-2):51-6 **(Fre)**

[Vulvar dermatoses and intra-epithelial neoplasia. Classification, criticism and suggestions] Leibowitch M, et al. **Ann Pathol** 1996 Nov;16(5):334-42 (18 ref.) **(Fre)**

[Adenocarcinoma in situ of the cervix uteri. Cytologic and histologic aspects] Saurel J. **Ann Pathol** 1996 Nov; 16(5):374-80 **(Fre)**

[Role of testicular biopsy in the investigation of a carcinoma in situ] de la Taille A, et al. **Prog Urol** 1997 Apr;7(2):209-14 (27 ref.) (Eng. Abstr.) **(Fre)**

[Prognostic and therapeutic significance of single disseminated tumor cells in lymph nodes in esophageal carcinoma] Izbicki JR, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:781-4 (Eng. Abstr.) **(Ger)**

[Malignant degeneration of juvenile laryngeal papillomatosis?] Schick B, et al. **Laryngorhinootologie** 1997 Mar;76(3):150-4 (Eng. Abstr.) **(Ger)**

[Developmental trends in breast pathology (editorial)] Böcker W. **Pathologe** 1997 Jan;18(1):1-2 **(Ger)**

[Ductal hyperplasia and ductal carcinoma in situ. Definition--classification--differential diagnosis] Böcker W, et al. **Pathologe** 1997 Jan;18(1):3-18 (98 ref.) (Eng. Abstr.) **(Ger)**

[Mastopathy with atypia (mastopathy III) vs. minimal carcinoma in situ (MCIS) (letter)] Prechtel K. **Radiologe** 1996 Sep;36(9):761-2 **(Ger)**

[Prognostic significance of carcinoma in situ and epithelial dysplasia accompanying bladder cancers] Wajiki M. **Nippon Hinyokika Gakkai Zasshi** 1996 Dec;87(12):1269-76 (Eng. Abstr.) **(Jpn)**

[Possibilities of cytologic diagnosis of uterine cervix carcinoma in situ] Novik VI. **Vopr Onkol** 1996;42(5):109-12 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Assessment of hormone dependence of comedo ductal carcinoma in situ of the breast [see comments] Holland PA, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1059-65 . Comment in: J Natl Cancer Inst 1997 Jul 16;89(14):991-3.

PREVENTION & CONTROL

Diagnostic reproducibility of Pap testing in two regions of Mexico: the need for quality control mechanisms. de Ruiz PA, et al. **Bull Pan Am Health Organ** 1996 Dec;30(4):330-8

Recurrence of primary superficial bladder cancer treated with prophylactic intravesical Tokyo 172 bacillus Calmette-Guérin: a long-term follow-up. Shinka T, et al. **Int J Urol** 1997 Mar;4(2):139-43

Anal cytology as a screening tool for anal squamous intraepithelial lesions. Palefsky JM, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Apr 15;14(5):415-22

Reasons for cervical cancer despite extensive screening. Stenkvist B, et al. **J Med Screen** 1996;3(4):204-7

The management of genital condylomas, intraepithelial neoplasia, and vulvodynia. Reid R. **Obstet Gynecol Clin North Am** 1996 Dec;23(4):917-91 (136 ref.)

PSYCHOLOGY

The voice of the breast cancer patient--a lonely cry in the wilderness. Thornton H. **Eur J Cancer** 1997 May; 33(6):825-8

Women's experiences of non-invasive breast cancer: literature review and study report. Webb C, et al. **J Adv Nurs** 1997 Mar;25(3):514-25 (62 ref.)

Alexithymia, immunity and cervical intraepithelial neoplasia: replication. Todarello O, et al. **Psychother Psychosom** 1997; 66(4):208-13

RADIOGRAPHY

Mammography of breast carcinoma in women who have mutations of the breast cancer gene BRCA1: initial experience. Helvie MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1599-602

Mammographic features of local recurrence in women who have undergone breast-conserving therapy for ductal carcinoma in situ. Liberman L, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):489-93

The detection of ductal carcinoma in situ at mammographic screening enables the diagnosis of small, grade 3 invasive tumours. Evans AJ, et al. **Br J Cancer** 1997;75(4):542-4

Mammographic findings of recurrent breast cancer after lumpectomy and radiation therapy: comparison with the primary tumor. Philpotts LE, et al. **Radiology** 1996 Dec; 201(3):767-71

Early squamous cell carcinoma of the lung: CT and pathologic correlation. Saida Y, et al. **Radiology** 1996 Oct; 201(1):61-5

RADIOTHERAPY

Sonographic tailoring of electron beam boost site after lumpectomy and radiation therapy for breast cancer. Birdwell RL, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):39-40

High-dose-rate brachytherapy in the management of high-grade intraepithelial neoplasia of the vagina. MacLeod C, et al. **Gynecol Oncol** 1997 Apr;65(1):74-7

Carcinoma in situ of the glottic larynx: excision or irradiation? Nguyen C, et al. **Head Neck** 1996 May-Jun; 18(3):225-8

Results of conservative surgery and radiation for mammographically detected ductal carcinoma in situ (DCIS). Fowble B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):949-57

Breast irradiation in ductal carcinoma-in-situ [letter] Thornton H. **Lancet** 1997 May 24;349(9064):1555

Lumpectomy with and without radiation for early-stage breast cancer and DCIS. Marks LB, et al. **Oncology (Huntingt)** 1997 Sep;11(9):1361-8, 1371; discussion 1372, 1374 (68 ref.)

[Treatment of eyelid carcinomas of 2 cmm or less by contact radiotherapy] Buatois F, et al. **J Fr Ophtalmol** 1996; 19(6-7):405-9 (Eng. Abstr.) **(Fre)**

SECONDARY

Upper urinary tract involvement in patients with bladder carcinoma in situ (Tis): its impact on management. Solsona E, et al. **Urology** 1997 Mar;49(3):347-52

SURGERY

Phonomicrosurgical treatment of early glottic cancer and carcinoma in situ. Zeitels SM. **Am J Surg** 1996 Dec; 172(6):704-9

Risk associated with unexpected lobular carcinoma in situ [letter] Shiffman MA. **Ann Surg Oncol** 1996 Nov;3(6):590-1

Axillary dissection can be avoided in selected breast cancer patients: analysis of 401 cases. Greco M, et al. **Anticancer Res** 1996 Nov-Dec;16(6C):3913-7

Is loop excision adequate primary management of adenocarcinoma in situ of the cervix? Houghton SJ, et al. **Br J Obstet Gynaecol** 1997 Mar;104(3):325-9

Vulvoperineal reconstruction after excision of anogenital multifocal intraepithelial neoplasia ("MIN"). Thomas SS, et al. **Br J Plast Surg** 1996 Dec;49(8):539-46

The suitable treatment for adenocarcinoma in situ of uterine cervix: a report of four cases. Liu YC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Oct;58(4):294-8

Extracorporeal polypectomy. Aydin A, et al. **Endoscopy** 1997 Jan;29(1):57-8

Ductal carcinoma in situ of the male breast. Analysis of 31 cases [see comments] Cutuli B, et al. **Eur J Cancer** 1997 Jan;33(1):35-8 (44 ref.). Comment in: Eur J Cancer 1997 Jan;33(1):10-1.

Conservative management of vaginal intraepithelial neoplasia (VAIN) by laser CO2. Diakomanolis E, et al. **Eur J Gynaecol Oncol** 1996;17(5):389-92

Vaginal intraepithelial neoplasia (VAIN) following hysterectomy in patients treated for carcinoma in situ of the cervix. Kalogirou D, et al. **Eur J Gynaecol Oncol** 1997; 18(3):188-91

Subcutaneous mastectomy for primary breast cancer and ductal carcinoma in situ. Cheung KL, et al. **Eur J Surg Oncol** 1997 Aug;23(4):343-7

Carcinoma in situ of the glottic larynx: excision or irradiation? Nguyen C, et al. **Head Neck** 1996 May-Jun; 18(3):225-8

Is there a role for cryoablation of the prostate in the management of localized prostate carcinoma? Long JP. **Hematol Oncol Clin North Am** 1996 Jun;10(3):675-90 (55 ref.)

Mainz pouch with appendix-umbilical stoma using catheterizable conduit elongated with continuous cecal segment: a case report. Okada Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):973-5

Results of conservative surgery and radiation for mammographically detected ductal carcinoma in situ (DCIS). Fowble B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):949-57

Doctors strive to minimize DCIS treatment [news] Blume E. **J Natl Cancer Inst** 1997 Aug 6;89(15):1092-5

Relationship between the size and margin status of ductal carcinoma in situ of the breast and residual disease [see comments] Cheng L, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1356-60. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1330-1.

Ureteral carcinoma in situ at radical cystectomy: does the margin matter? Silver DA, et al. **J Urol** 1997 Sep;158(3 Pt 1):768-71

Lumpectomy with and without radiation for early-stage breast cancer and DCIS. Marks LB, et al. **Oncology (Huntingt)** 1997 Sep;11(9):1361-8, 1371; discussion 1372, 1374 (68 ref.)

Lobular carcinoma in situ of the breast. Goldschmidt RA, et al. **Semin Surg Oncol** 1996 Sep-Oct;12(5):314-20 (39 ref.)

Management of ductal carcinoma in situ. Talamonti MS. **Semin Surg Oncol** 1996 Sep-Oct;12(5):300-13 (62 ref.)

Ductal carcinoma in situ. The success of breast conservation therapy: a shared experience of two single institutional nonrandomized prospective studies. Lagios MD, et al. **Surg Oncol Clin N Am** 1997 Apr;6(2):385-92

[Respective role of conservative and radical treatment of breast cancers] Body G, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(4):350-6 (36 ref.) **(Fre)**

[Breast cancers with central localization: conservative treatment by tumorectomy with ablation of the areolar plaque] Multon O, et al. **Presse Med** 1997 Jun 21; 26(21):988-94 (Eng. Abstr.) **(Fre)**

[Carcinoma in situ of the breast--is axillary lymphadenectomy necessary?] Dimpfl Th, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):18-22 (Eng. Abstr.) **(Ger)**

[Standardized pathologic examination of breast excision specimen. Relevance within an interdisciplinary practice protocol for quality management of breast saving therapy] Decker T, et al. **Pathologe** 1997 Jan;18(1):53-9 (Eng. Abstr.) **(Ger)**

[Electrosurgery as treatment of high grade squamous intraepithelial lesions of the cervix] Trejo Solorzano O, et al. **Ginecol Obstet Mex** 1997 Aug;65:332-8 (Eng. Abstr.) **(Spa)**

THERAPY

National treatment trends for ductal carcinoma in situ of the breast. Winchester DJ, et al. **Arch Surg** 1997 Jun; 132(6):660-5

Ductal carcinoma in situ. Part 2: Treatment. Delaney G, et al. **Aust N Z J Surg** 1997 Apr;67(4):157-65 (83 ref.)

Incidence and treatment of ductal carcinoma in situ of the breast [editorial; comment] Silverstein MJ. **Eur J Cancer** 1997 Jan;33(1):10-1. Comment on: Eur J Cancer 1997 Jan;33(1):35-8.

Ductal carcinoma in situ of the breast--current management. Sharma S, et al. **Eur J Surg Oncol** 1997 Jun;23(3):191-7 (103 ref.)

Application of clinical trials to the care of patients with bladder cancer. Hall RR. **Eur Urol** 1997;31 Suppl 1:42-6 (29 ref.)

Intravesical therapy of bladder cancer: an immunotherapy success story. Morales A. **Int J Urol** 1996 Sep;3(5):329-33 (30 ref.)

New clinical trials under way for DCIS [news] Blume E. **J Natl Cancer Inst** 1997 Aug 6;89(15):1094

Ductal carcinoma in situ of the breast: a new model [editorial; comment] Hayes DF. **J Natl Cancer Inst** 1997 Jul 16; 89(14):991-3 (17 ref.). Comment on: J Natl Cancer Inst 1997 Jul 16;89(14):1059-65.

Importance of the transitional zone between the cervical stroma and the parametrium in the treatment of cervical carcinoma. Tabata M, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):111-7

Management of lichen sclerosus and intraepithelial neoplasia of the vulva in the UK. Tidy JA, et al. **J R Soc Med** 1996 Dec;89(12):699-701

Invasive potential of carcinoma in situ of the cervix [comment] Morris M. **Lancet** 1997 Apr 5;349(9057):967. Comment on: Lancet 1997 Apr 5;349(9057):978-80.

The Prostate Cancer Intervention Versus Observation Trial (PIVOT). Wilt TJ, et al. **Oncology (Huntingt)** 1997 Aug; 11(8):1133-9; discussion 1139-40, 1143 (27 ref.)

Lung cancer chemoprevention and management of carcinoma in situ. Karp DD. **Semin Oncol** 1997 Aug; 24(4):402-10 (76 ref.)

Management of lobular carcinoma in situ and ductal carcinoma in situ of the breast. Wood WC. **Semin Oncol** 1996 Aug;23(4):446-52 (50 ref.)

Significance of p53 overexpression in urinary bladder transitional cell carcinoma in situ before and after bacillus Calmette-Guérin treatment. Ick K, et al. **Urology** 1997 Apr; 49(4):541-6; discussion 546-7

Incidence of granulomatous prostatitis and acid-fast bacilli after intravesical BCG therapy. LaFontaine PD, et al. **Urology** 1997 Mar;49(3):363-6

[Predictive factors of local recurrence of in situ intraductal carcinoma. Apropos of 217 cases] Abbes M, et al. **Bull Cancer** 1997 Feb;84(2):135-40 (Eng. Abstr.) **(Fre)**

[Intrarenal bacillus Calmette-Guerin therapy for carcinoma in situ of the upper urinary tract] Okubo K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):386-90 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Voice disorders in benign nodose formations of the vocal cords in vocalists. Their treatment and rehabilitation] Matveeva NV. **Vestn Otorinolaringol** 1996 Nov-Dec; (6):30-2 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Sonographic tailoring of electron beam boost site after lumpectomy and radiation therapy for breast cancer. Birdwell RL, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):39-40

Ultrasound of malignant breast microcalcifications: role in evaluation and guided procedures. Rickard MT. **Australas Radiol** 1996 Feb;40(1):26-31

Abnormal ultrasonic pattern in contralateral testes in patients with unilateral testicular cancer. Lenz S, et al. **World J Urol** 1996;14 Suppl 1:S55-8

[Testicular carcinoma in situ detected by ultrasound in infertile men] Petersen PM, et al. **Ugeskr Laeger** 1997 Jun 16;159(25):3962-3 (Eng. Abstr.) **(Dan)**

ULTRASTRUCTURE

Activity satellite association and polymorphism of Ag stained nucleolus organizer regions (Ag+ NORs) in lymphocytes from women with cervical uterine cancer. Cortés-Gutiérrez EI, et al. **Arch Med Res** 1997 Spring; 28(1):19-23

VETERINARY

Adenomatous polyps and carcinoma in situ of the canine

colon and rectum: 34 cases (1982–1994). Valerius KD, et al. **J Am Anim Hosp Assoc** 1997 Mar–Apr;33(2):156–60

Prostatic intraepithelial neoplasia in dogs with spontaneous prostate cancer. Waters DJ, et al. **Prostate** 1997 Feb 1; 30(2):92–7

VIROLOGY

Human papillomavirus type in anal epithelial lesions is influenced by human immunodeficiency virus. Unger ER, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):820–4

Human papilloma virus in neoplastic and non–neoplastic conditions of the external eye. Karcioglu ZA, et al. **Br J Ophthalmol** 1997 Jul;81(7):595–8

Detection of human papillomavirus infection in squamous tumours of the conjunctiva and lacrimal sac by immunohistochemistry, in situ hybridisation, and polymerase chain reaction. Nakamura Y, et al. **Br J Ophthalmol** 1997 Apr;81(4):308–13

Human papillomavirus–specific serologic response in vulvar neoplasia. Sun Y, et al. **Gynecol Oncol** 1996 Nov; 63(2):200–3

Distinct manifestations of human papillomaviruses in the vagina. Sugase M, et al. **Int J Cancer** 1997 Jul 29; 72(3):412–5

Increased prevalence of vulvovaginal condyloma and vulvar intraepithelial neoplasia in women infected with the human immunodeficiency virus. Chiasson MA, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):690–4

[The presence of Human Papillomavirus (HPV) in microinvasive in situ spinocellular carcinoma of the oral cavity. Preliminary report] Mignogna MD, et al. **Minerva Stomatol** 1997 Jun;46(6):287–91 (Eng. Abstr.) **(Ita)**

[Detection of cancer of the cervix in women with risk of infection with the human immunodeficiency virus (letter)] Antúnez Gálvez JM, et al. **Aten Primaria** 1996 Jun 30; 18(2):97–8 **(Spa)**

CARCINOMA, INFILTRATING DUCT

Common questions about ductal carcinoma in situ. Dell DD. **Am J Nurs** 1997 May;97(5):61–3, 65–6

Ductal carcinoma in situ of the breast. Silverstein MJ. **Br J Surg** 1997 Feb;84(2):145–6

Metachronous contralateral breast cancer as first event of relapse. de la Rochefordière A, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):615–21

Use of predictors of recurrence to plan therapy for DCIS of the breast. Silverstein MJ, et al. **Oncology (Huntingt)** 1997 Mar;11(3):393–406, 409–10; discussion 413–5 (74 ref.)

BLOOD

The serum tumor marker M3/M21 in the follow–up of breast cancer patients. Tempfer C, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3049–52

Lysosomal aspartic and cysteine proteinases serum levels in patients with pancreatic cancer or pancreatitis. Leto G, et al. **Pancreas** 1997 Jan;14(1):22–7

BLOOD SUPPLY

Analysis of the tumor staining obtained by preoperative IV–DSA for breast cancer patients: density and metastasis correlation. Haga S, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):129–35

Vascularity demonstrated by Doppler ultrasound and immunohistochemistry in invasive ductal carcinoma of the breast. Sterns EE, et al. **Breast Cancer Res Treat** 1996; 40(2):197–203

Association of tumor angiogenesis with bone marrow micrometastases in breast cancer patients. Fox SB, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1044–9

Distinct angiogenic patterns are associated with high–grade in situ ductal carcinomas of the breast. Engels K, et al. **J Pathol** 1997 Feb;181(2):207–12

Up–regulation of thymidine phosphorylase expression is associated with a discrete pattern of angiogenesis in ductal carcinomas in situ of the breast. Engels K, et al. **J Pathol** 1997 Aug;182(4):414–20

Angiogenesis and inflammation in ductal carcinoma in situ of the breast. Lee AH, et al. **J Pathol** 1997 Feb;181(2):200–6

Angiogenesis in breast cancer is related to age but not to other prognostic parameters. Marinho A, et al. **Pathol Res Pract** 1997;193(4):267–73

Sonographic blood flow measurements in malignant breast tumors. A potential new prognostic factor. Sohn C, et al. **Surg Endosc** 1997 Sep;11(9):957–60

CHEMICALLY INDUCED

A rat model of pancreatic ductal adenocarcinoma: targeting chemical carcinogens. Rivera JA, et al. **Surgery** 1997 Jul; 122(1):82–90

CHEMISTRY

C–erb B2 oncoprotein expression. Correlation with the Ki–67 labeling index and AgNOR counts in breast carcinoma on fine needle aspiration cytology. Sinha SK, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1217–20

Nuclear DNA content of fine needle aspirates of invasive ductal carcinomas of the breast. Sarker S, et al. **Anal Cell Pathol** 1997;13(1):1–8

EGF–R expression in ductal breast cancer: proliferation and prognostic implications. Bucci B, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):769–74

A sialoglycoprotein (LEA.135) associated with favourable prognosis of patients with lymph node–negative primary breast carcinoma. Imam SA, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3043–8

The prognostic significance of epidermal growth factor receptor (EGFR), C–erbB–2, Ki–67 and PCNA expression in breast cancer. Ioachim E, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3141–7

Expression of CD44 in duct cell carcinomas and in intraductal neoplasms of the pancreas. Satoh K, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):215–9

Expression of E–cadherin and catenins in invasive mammary carcinomas. Zschiesche W, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):561–7

Immunohistochemical study in breast carcinoma. S100–protein positive cells and neuroendocrine differentiation. Zóltowska A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):271–7

pS2 protein: a marker improving prediction of response to neoadjuvant tamoxifen in post–menopausal breast cancer patients. Soubeyran I, et al. **Br J Cancer** 1996 Oct; 74(7):1120–5

Preliminary findings on the expression of thymosin beta–10 in human breast cancer. Verghese–Nikolakaki S, et al. **Br J Cancer** 1996 Nov;74(9):1441–4

p53 protein expression in ductal carcinoma in situ (DCIS) of the breast. Rajan PB, et al. **Breast Cancer Res Treat** 1997 Feb;42(3):283–90

Overexpression of eukaryotic initiation factor 4E (eIF4E) in breast carcinoma. Li BD, et al. **Cancer** 1997 Jun 15; 79(12):2385–90

Gangliosides expressed in human breast cancer. Marquina G, et al. **Cancer Res** 1996 Nov 15;56(22):5165–71

DNA ploidy and pS2 protein expression in breast cancer. Ioakim–Liossi A, et al. **Cytopathology** 1997 Jun;8(3):171–6

Immunostaining of estrogen receptor, progesterone receptor, MIB1 antigen, and c–erbB–2 oncoprotein in cytologic specimens: a simplified method with formalin fixation. Suthipintawong C, et al. **Diagn Cytopathol** 1997 Aug; 17(2):127–33

Comparison of prognostic markers detected by immunohistochemistry in male and female breast carcinomas. Weber–Chappuis K, et al. **Eur J Cancer** 1996 Sep;32A(10):1686–92

Immunohistochemical detection of oestrogen receptors in ductal carcinoma in situ of the breast. Karayiannakis AJ, et al. **Eur J Surg Oncol** 1996 Dec;22(6):578–82

Nuclear grade in invasive ductal breast carcinoma. Comparative study on nuclear grade and morphometric parameters, hormonal receptor status, flow cytometric analysis and lectin histochemistry. Jonjić N, et al. **Gen Diagn Pathol** 1996 Oct;142(2):83–8

Medullary breast carcinoma vs. poorly differentiated ductal carcinoma: an immunohistochemical study with keratin 19 and oestrogen receptor staining. Jensen ML, et al. **Histopathology** 1996 Sep;29(3):241–5

Quantitative computerized image analysis of Tn and T (Thomsen–Friedenreich) epitopes in prognostication of human breast carcinoma. Wang BL, et al. **J Histochem Cytochem** 1997 Oct;45(10):1393–400

Differentiation pathways in primary invasive breast carcinoma as suggested by intermediate filament and biopathological marker expression. Santini D, et al. **J Pathol** 1996 Aug;179(4):386–91

Comparison of quantitative and semiquantitative methods of assessing MIB–1 with the S–phase fraction in breast carcinoma. MacGrogan G, et al. **Mod Pathol** 1997 Aug; 10(8):769–76

Immunoreactive p53 and metallothionein expression in duct carcinoma in situ of the breast. No correlation. Douglas–Jones AG, et al. **Virchows Arch** 1997 May; 430(5):373–9

[Dna synthesis and expression of steroid receptors in cells of human breast carcinoma] Simone G, et al. **Pathologica** 1996 Apr;88(2):111–6 (Eng. Abstr.) **(Ita)**

CLASSIFICATION

Prognosis of radically operated breast carcinoma patients. A retrospective study of 167 consecutive patients with emphasis on histopathological grading, reproducibility and mean nuclear area. Raabe NK, et al. **APMIS** 1997 May; 105(5):363–70

A critical appraisal of six modern classifications of ductal carcinoma in situ of the breast (DCIS): correlation with grade of associated invasive carcinoma. Douglas–Jones AG, et al. **Histopathology** 1996 Nov;29(5):397–409

Relationship of a new histological categorization of ductal carcinoma in situ of the breast with size and the immunohistochemical expression of p53, c–erb B2, bcl–2, and ki–67 [see comments] Mack L, et al. **Hum Pathol** 1997 Aug;28(8):974–9. Comment in: Hum Pathol 1997 Aug;28(8):877–80.

Classification of ductal carcinoma in situ: striving for clinical relevance in the era of breast conserving therapy [editorial; comment] Schnitt SJ, et al. **Hum Pathol** 1997 Aug; 28(8):877–80. Comment on: Hum Pathol 1997 Aug;28(8):967–73. Comment on: Hum Pathol 1997 Aug;28(8):974–9.

Ductal carcinoma in situ of the breast: reproducibility of histological subtype analysis [see comments] Scott MA, et al. **Hum Pathol** 1997 Aug;28(8):967–73. Comment in: Hum Pathol 1997 Aug;28(8):877–80.

Classification of duct carcinoma in situ (DCIS) with a characterization of high grade lesions: defining cohorts for chemoprevention trials. Lagios MD. **J Cell Biochem Suppl** 1996;25:108–11 (21 ref.)

COMPLICATIONS

Granulomatous hepatitis and necrotizing splenitis due to Bartonella henselae in a patient with cancer: case report and review of hepatosplenic manifestations of bartonella infection. Liston TE, et al. **Clin Infect Dis** 1996 Jun; 22(6):951–7 (45 ref.)

Carcinoma of the breast in a sickle cell disease patient: case report. Adebamowo CA, et al. **East Afr Med J** 1996 Jul; 73(7):489–90

Unusual clonal chromosomal evolution in a breast carcinoma and its lymph node metastasis in a patient with Down syndrome. Bernardino J, et al. **Genes Chromosomes Cancer** 1997 Jul;19(3):195–9

Relationship between breast cancer and thyroid disease: relevance of autoimmune thyroid disorders in breast malignancy. Giani C, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):990–4

Headache, vomiting and diplopia. Cantón A, et al. **Postgrad Med J** 1997 Jun;73(860):357–9

DIAGNOSIS

Breast tumor diagnosis in cytologic aspirates using monoclonal antibodies to keratin 8 and 17. Kirjushkina MS, et al. **Acta Cytol** 1997 Mar–Apr;41(2):307–12

Breast cancer diagnosis by fine needle aspiration and excisional biopsy. Recurrence and survival. Taxin A, et al. **Acta Cytol** 1997 Mar–Apr;41(2):302–6

The milk rejection sign: a natural tumor marker. Saber A, et al. **Am Surg** 1996 Dec;62(12):998–9

Cytologic nuclear grading of fine needle cytopunctures of breast carcinoma. Comparison with histologic nuclear grading and image cytometric data. Briffod M, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):114–22

Surgical biopsy findings in patients with atypical hyperplasia diagnosed by stereotaxic core needle biopsy. Tocino I, et al. **Ann Surg Oncol** 1996 Sep;3(5):483–8

Prediction of nodal metastasis and prognosis in breast cancer: a neural model. Naguib RN, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2735–41

Ultrasound in the detection of breast cancer associated with isolated clustered microcalcifications, mammographically identified. Ranieri E, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2831–5

Ductal carcinoma in situ. Part I: Definition and diagnosis. Delaney G, et al. **Aust N Z J Surg** 1997 Feb–Mar; 67(2–3):81–93 (149 ref.)

Breast reduction and carcinoma–in–situ [letter] Villafane O, et al. **Br J Plast Surg** 1996 Oct;49(7):499

Magnetic resonance galactography for a patient with nipple discharge. Yoshimoto M, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):87–90

Breast carcinoma detection with a combination of radiolabeled monoclonal antibodies. Promising results from immunohistochemistry studies. Mangili F, et al. **Cancer** 1996 Dec 1;78(11):2334–9

The role of pre–operative diagnosis in breast cancer. Pinder SE, et al. **Histopathology** 1996 Jun;28(6):563–6

The lectin–binding sites for peanut agglutinin in invasive breast ductal carcinomas and their role as a prognostic factor. Mustac E, et al. **J Cancer Res Clin Oncol** 1996; 122(11):693–7

MRI of histologically confirmed mammary carcinoma: clinical relevance of diagnostic procedures for detection of multifocal or contralateral secondary carcinoma. Rieber A, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):773–9

FBL blood test as a predictive marker of breast cancer in high risk women. Moroz C, et al. **Med Oncol** 1997 Mar; 14(1):39–42

Prognostic value of DNA ploidy in breast cancer stage I–II. Cufer T, et al. **Neoplasma** 1997;44(2):127–32

Pregnancy and offspring after the appearance of breast cancer. Malamos NA, et al. **Oncology** 1996 Nov–Dec; 53(6):471–5

Breast hamartoma with invasive ductal carcinoma. Report of two cases and review of the literature. Anani PA, et al. **Pathol Res Pract** 1996 Dec;192(12):1187–94 (19 ref.)

Internal mammary silicone lymphadenopathy mimicking recurrent breast cancer. Kao CC, et al. **Plast Reconstr Surg** 1997 Jan;99(1):225–9

Stereotactic breast biopsy of atypical ductal hyperplasia and ductal carcinoma in situ lesions: improved accuracy with directional, vacuum–assisted biopsy. Burbank F. **Radiology** 1997 Mar;202(3):843–7

Stereotactic core breast biopsy of a minimal carcinoma complicated by a large hematoma: a management dilemma. Deutch BM, et al. **Radiology** 1997 Feb;202(2):431–3

Pancreatic ductal adenocarcinoma: preoperative assessment with helical CT versus dynamic MR imaging. Ichikawa T, et al. **Radiology** 1997 Mar;202(3):655–62

MR imaging of ductal carcinoma in situ. Orel SG, et al. **Radiology** 1997 Feb;202(2):413–20

Three–dimensional RODEO breast MR imaging of lesions containing ductal carcinoma in situ. Soderstrom CE, et al.

Radiology 1996 Nov;201(2):427–32

Clinics in diagnostic imaging (11). Ductal carcinoma of the breast. Yang WT. **Singapore Med J** 1996 Apr;37(2):206–10

[Significance of diagnosis and prognosis for breast carcinoma with examination of Ag–NORs] Xiong X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):609–10 (Eng. Abstr.) **(Chi)**

[Value of the CA 19–9 tumor marker in differential diagnosis of space–occupying lesions in the head of the pancreas] Böttger T, et al. **Chirurg** 1996 Oct;67(10):1007–11 (Eng. Abstr.) **(Ger)**

[Magnetic resonance mammography—open questions] Kessler M, et al. **Geburtshilfe Frauenheilkd** 1996 Aug; 56(8):M107–15 **(Ger)**

[Carcinoma–associated retinopathy in breast carcinoma and carcinoid tumor] Holz FG, et al. **Ophthalmologe** 1997 May; 94(5):337–42 (Eng. Abstr.) **(Ger)**

[Inflammatory breast carcinoma versus puerperal mastitis. Difficulties in differentiation based on clinical, histological and MRI findings] Unterweger M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):558–60 **(Ger)**

[Paraneoplastic retinopathy in 2 patients with breast carcinoma] Huober J, et al. **Zentralbl Gynakol** 1997; 119(6):278–81 (Eng. Abstr.) **(Ger)**

[Dynamic MR and fat suppression imaging of pancreatic carcinoma] Akaki S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jul;56(8):550–4 (Eng. Abstr.) **(Jpn)**

[The use of high resolution MR imaging for pre–treatment evaluation of breast cancer: detection of intraductal spread] Hiramatsu H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):182–8 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Activity of standard–dose carboplatin, cyclophosphamide, and etoposide in patients with metastatic breast cancer with previous exposure to anthracyclines. Recchia F, et al. **Am J Clin Oncol** 1997 Apr;20(2):166–8

Immediate breast reconstruction in the high–risk adjuvant setting. Wey PD, et al. **Ann Plast Surg** 1997 Apr; 38(4):342–4

Saporin 6 and lonidamine in primary cell cultures from human breast carcinomas: a synergistic effect. Gasperi–Campani A, et al. **Anticancer Drug Des** 1997 Mar; 12(2):91–8

pS2 protein: a marker improving prediction of response to neoadjuvant tamoxifen in post–menopausal breast cancer patients. Soubeyran I, et al. **Br J Cancer** 1996 Oct; 74(7):1120–5

P–glycoprotein: the intermediate end point of drug response to induction chemotherapy in locally advanced breast cancer. Chung HC, et al. **Breast Cancer Res Treat** 1997 Jan;42(1):65–72

Continuous intrathecal perfusion of methotrexate for carcinomatous meningitis with pharmacokinetic studies: two case studies. Petit T, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):189–90

In vitro chemosensitivity of human pancreatic cancer cell lines. Sawabe Y, et al. **Int J Pancreatol** 1996 Dec; 20(3):185–90

Adjuvant chemotherapy for breast cancer in pregnancy: can recommendations be made with confidence. Stevenson J, et al. **Semin Oncol** 1997 Apr;24(2):xxv–xxxvi; discussion xxxvi, xxxix

[Sequential course and prospective management of ifosfamide–induced multi–organ toxicity] Mollenkopf A, et al. **Geburtshilfe Frauenheilkd** 1996 Oct;56(10):525–8 (Eng. Abstr.) **(Ger)**

[A case of unresectable pancreatic cancer successfully treated with continuous venous daily infusion of 5–FU and low–dose CDDP] Seino K, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):1027–30 (Eng. Abstr.) **(Jpn)**

[A case of non–resectable pancreatic cancer surviving more than 4 years by intra–arterial infusion chemotherapy with angiotensin–II] Tsuji Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1617–20 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Telomerase expression in human breast cancer with and without lymph node metastases. Nawaz S, et al. **Am J Clin Pathol** 1997 May;107(5):542–7

Lysyl oxidase gene expression in the stromal reaction to in situ and invasive ductal breast carcinoma. Peyrol S, et al. **Am J Pathol** 1997 Feb;150(2):497–507

Occult deposition of eosinophil peroxidase in a subset of human breast carcinomas. Samoszuk MK, et al. **Am J Pathol** 1996 Mar;148(3):701–6

Differentiation of pancreatic ductal carcinoma cells associated with selective expression of protein kinase C isoforms. Franz MG, et al. **Ann Surg Oncol** 1996 Nov; 3(6):564–9

Immunohistochemical detection of cathepsin D in low grade breast invasive cancer. Lazaris AC, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2651–5

Correlation of two methods for determination of cathepsin D in breast carcinoma (immunohistochemistry and ELISA in cytosol). Razumović JJ, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):117–22

Enhanced expression of PP1 gamma 1, a catalytic subunit isoform of protein phosphatase type 1, in invasive ductal carcinoma of the breast. Sogawa K, et al. **Cancer Lett** 1997 Jan 30;112(2):263–8

Antiproliferative effects of interferon alpha on human pancreatic carcinoma cell lines are associated with differential regulation of protein kinase C isoenzymes. Rosewicz S, et al. **Gut** 1996 Aug;39(2):255–61

Cathepsin D in host stromal cells, but not in tumor cells, is associated with aggressive behavior in node–negative breast cancer [see comments] Nadji M, et al. **Hum Pathol** 1996 Sep;27(9):890–5. Comment in: Hum Pathol 1996 Sep;27(9):869–71.

Semi–quantitative analysis of telomerase in pancreatic ductal adenocarcinoma. Mizumoto K, et al. **J Gastroenterol** 1996 Dec;31(6):894–7

EPIDEMIOLOGY

Risk of contralateral breast cancer among women with carcinoma in situ of the breast. Habel LA, et al. **Ann Surg** 1997 Jan;225(1):69–75

Local recurrence in breast cancer: implications for systemic disease. Curcio LD, et al. **Ann Surg Oncol** 1997 Jan; 4(1):24–7

The National Cancer Data Base report on breast carcinoma characteristics and outcome in relation to age. Winchester DP, et al. **Cancer** 1996 Oct 15;78(8):1838–43

Risk of breast cancer associated with atypical hyperplasia of lobular and ductal types. Marshall LM, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):297–301

Trends of in situ carcinoma of the breast in Vaud, Switzerland. Levi F, et al. **Eur J Cancer** 1997 May; 33(6):903–6

Comparison of the relative incidence of impalpable invasive breast carcinoma and ductal carcinoma in situ in cancers detected in patients older and younger than 50 years of age. Evans WP 3rd, et al. **Radiology** 1997 Aug; 204(2):489–91

ETIOLOGY

Comparison of risk factors for ductal carcinoma in situ and invasive breast cancer. Kerlikowske K, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):76–82

Amplification units and translocation at chromosome 17q and c–erbB–2 overexpression in the pathogenesis of breast cancer. Coene ED, et al. **Virchows Arch** 1997 May; 430(5):365–72

GENETICS

Mammography of breast carcinoma in women who have mutations of the breast cancer gene BRCA1: initial experience. Helvie MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1599–602

A somatic truncating mutation in BRCA2 in a sporadic breast tumor [letter] Weber BH, et al. **Am J Hum Genet** 1996 Oct;59(4):962–4

K–ras and p53 mutations in hamster pancreatic ductal adenocarcinomas and cell lines. Erill N, et al. **Am J Pathol** 1996 Oct;149(4):1333–9

Genetic changes in intraductal breast cancer detected by comparative genomic hybridization. Kuukasjärvi T, et al. **Am J Pathol** 1997 Apr;150(4):1465–71

Lysyl oxidase gene expression in the stromal reaction to in situ and invasive ductal breast carcinoma. Peyrol S, et al. **Am J Pathol** 1997 Feb;150(2):497–507

Amplification of CCND1 and expression of its protein product, cyclin D1, in ductal carcinoma in situ of the breast. Simpson JF, et al. **Am J Pathol** 1997 Jul;151(1):161–8

Heterogeneity of DNA distribution pattern in renal tumours. Nenning H, et al. **Anal Cell Pathol** 1997;14(1):9–17

Expression of the CD44 variant isoforms 6 and 4/5 in breast cancer. Correlation with established prognostic parameters. Regidor PA, et al. **Arch Gynecol Obstet** 1996;258(3):125–35

Loss of heterozygosity at chromosome 6q in preinvasive and early invasive breast carcinomas. Chappell SA, et al. **Br J Cancer** 1997;75(9):1324–9

Localization of a breast cancer tumour–suppressor gene to a 3–cM interval within chromosomal region 16q22. Iida A, et al. **Br J Cancer** 1997;75(2):264–7

Mutation of the TP53 gene and allelic imbalance at chromosome 17p13 in ductal carcinoma in situ. Munn KE, et al. **Br J Cancer** 1996 Nov;74(10):1578–85

High incidence of interleukin 10 mRNA but not interleukin 2 mRNA detected in human breast tumours. Venetsanakos E, et al. **Br J Cancer** 1997;75(12):1826–30

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103–9

S–phase fraction identifies high–risk subgroups among DNA–diploid breast cancers. Romero H, et al. **Breast Cancer Res Treat** 1996;38(3):265–75

Cytogenetic abnormalities in an in situ ductal carcinoma and five prophylactically removed breasts from members of a family with hereditary breast cancer. Teixeira MR, et al. **Breast Cancer Res Treat** 1996;38(2):177–82

Molecular pathology of primary and metastatic ductal pancreatic lesions: analyses of mutations and expression of the p53, mdm–2, and p21/WAF–1 genes in sporadic and familial lesions. Ruggeri BA, et al. **Cancer** 1997 Feb 15; 79(4):700–16

A subgroup of breast carcinomas is cytogenetically characterized by trisomy 12. Adeyinka A, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):119–21

Fluorescence in situ hybridization assessment of chromosome 8 copy number in stage I and stage II infiltrating ductal carcinoma of the breast. Afify A, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):101–5

DNA hypomethylation in breast cancer: an independent parameter of tumor progression? Bernardino J, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):83–9

Comparative study of chromosome aberrations induced with aphidicolin in women affected by breast cancer and cervix uterine cancer. Paz–y–Miño C, et al. **Cancer Genet Cytogenet** 1997 Apr;94(2):120–4

Microsatellite instability in in situ and invasive sporadic breast cancers of Japanese women. Toyama T, et al. **Cancer Lett** 1996 Nov 29;108(2):205–9

Deletion map of chromosome 16q in ductal carcinoma in situ of the breast: refining a putative tumor suppressor gene region. Chen T, et al. **Cancer Res** 1996 Dec 15; 56(24):5605–9

Compartment switching of WNT–2 expression in human breast tumors. Dale TC, et al. **Cancer Res** 1996 Oct 1; 56(19):4320–3

Methylation of the BRCA1 gene in sporadic breast cancer. Dobrovic A, et al. **Cancer Res** 1997 Aug 15;57(16):3347–50

Genetic progression, histological grade, and allelic loss in ductal carcinoma in situ of the breast. Fujii H, et al. **Cancer Res** 1996 Nov 15;56(22):5260–5

Identification of DNA methylation markers for human breast carcinomas using the methylation–sensitive restriction fingerprinting technique. Huang TH, et al. **Cancer Res** 1997 Mar 15;57(6):1030–4

High levels of allele loss at the FHIT and ATM genes in non–comedo ductal carcinoma in situ and grade I tubular invasive breast cancers. Man S, et al. **Cancer Res** 1996 Dec 1;56(23):5484–9

c–erbB–2/neu protein expression, DNA ploidy and S phase in breast cancer. Dittadi R, et al. **Cell Prolif** 1996 Jul; 29(7):403–12

The expression of p53 in patients with coexistent breast carcinoma and malignant melanoma. Barnes N, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):185–6

Sequence analysis of the DNA binding domain of the estrogen receptor gene in ER (+)/PR (–) breast cancer. Mies C, et al. **Diagn Mol Pathol** 1996 Mar;5(1):39–44

Correlation between p53 immunostaining patterns and gene sequence mutations in breast carcinoma. Visscher DW, et al. **Diagn Mol Pathol** 1996 Sep;5(3):187–93

Unusual clonal chromosomal evolution in a breast carcinoma and its lymph node metastasis in a patient with Down syndrome. Bernardino J, et al. **Genes Chromosomes Cancer** 1997 Jul;19(3):195–9

Loss of heterozygosity on chromosome arm 16q in breast cancer metastases. Driouch K, et al. **Genes Chromosomes Cancer** 1997 Jul;19(3):185–91

Patterns of allelic loss on chromosome 17 in sporadic breast carcinomas detected by fluorescent–labeled microsatellite analysis. Niederacher D, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):181–92

Loss of heterozygosity from the short arm of chromosome 8 is associated with invasive behavior in breast cancer. Yaremko ML, et al. **Genes Chromosomes Cancer** 1996 Jul; 16(3):189–95

The use of crude tissue section lysates for PCR assessment of gene copy number with human tumour biopsy samples. Schmitt JF, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):217–30

Intratumoral heterogeneity in primary breast carcinoma: study of concurrent parameters. Dodd LG, et al. **J Surg Oncol** 1997 Apr;64(4):280–7; discussion 287–8

Immunohistochemical detection and gene amplification of cyclin D1 in mammary infiltrating ductal carcinoma. Frierson HF Jr, et al. **Mod Pathol** 1996 Jul;9(7):725–30 (38 ref.)

Variability in loss of constitutional heterozygosity across loci and among individuals: association with candidate genes in ductal breast carcinoma. Rebbeck TR, et al. **Mol Carcinog** 1996 Nov;17(3):117–25

A breast/ovarian cancer patient with germline mutations in both BRCA1 and BRCA2 [letter] Ramus SJ, et al. **Nat Genet** 1997 Jan;15(1):14–5

Expression of cell–cycle regulators p27Kip1 and cyclin E, alone and in combination, correlate with survival in young breast cancer patients [see comments] Porter PL, et al. **Nat Med** 1997 Feb;3(2):222–5. Comment in: Nat Med 1997 Feb;3(2):152–4.

ESX: a structurally unique Ets overexpressed early during human breast tumorigenesis. Chang CH, et al. **Oncogene** 1997 Apr 3;14(13):1617–22

Comparative genomic hybridisation of ductal carcinoma in situ of the breast: identification of regions of DNA amplification and deletion in common with invasive breast carcinoma. James LA, et al. **Oncogene** 1997 Mar 6; 14(9):1059–65

A two–step enriched–nested PCR technique enhances sensitivity for detection of codon 12 K–ras mutations in pancreatic adenocarcinoma. Banerjee SK, et al. **Pancreas** 1997 Jul;15(1):16–24

Loss of heterozygosity in normal tissue adjacent to breast carcinomas. Deng G, et al. **Science** 1996 Dec 20; 274(5295):2057–9

[The expression of bcl–2, P53 and c–erbB–2 onco–proteins

in breast cancer and their clinicopathological significance] Gao L, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):165–8 (Eng. Abstr.) **(Chi)**

[Aneuploidy and proliferative activity in breast cancer (flow-cytometric investigation)] Bychkova NV, et al. **Vopr Onkol** 1997;43(2):171–5 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Characteristics of antigens from an HCG alpha secreting cell line (ElCo) derived from human breast carcinoma in a Native American patient. Pattillo RA, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S246–54

A survivor of breast cancer with immunity to MUC-1 mucin, and lactational mastitis. Jerome KR, et al. **Cancer Immunol Immunother** 1997 Jan;43(6):355–60

Prostate-specific antigen expression in a case of intracystic carcinoma of the breast: characterization of immunoreactive protein and literature surveys. Mannello F, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1448–54 (72 ref.)

Correlation between p53 immunostaining patterns and gene sequence mutations in breast carcinoma. Visscher DW, et al. **Diagn Mol Pathol** 1996 Sep;5(3):187–93

Immunohistochemical detection and gene amplification of cyclin D1 in mammary infiltrating ductal carcinoma. Frierson HF Jr, et al. **Mod Pathol** 1996 Jul;9(7):725–30 (38 ref.)

Immunohistochemical assessment of proliferation rate of breast carcinoma cells using Ki-67, MIB-1 and anti-PCNA monoclonal antibodies. Markiewski M, et al. **Pol J Pathol** 1996;47(4):189–94

Immunohistochemical localization of Bcl-2 and Bax proteins in in situ and invasive duct breast carcinomas. Kapucuoglu N, et al. **Virchows Arch** 1997 Jan;430(1):17–22

METABOLISM

Intermediate filament expression of ductal carcinoma cells in fine needle aspirates of the breast. Heatley M, et al. **Acta Cytol** 1997 May-Jun;41(3):717–20

Expression of pS2 protein and estrogen and progesterone receptor status in breast cancer. Ioakim-Liossi A, et al. **Acta Cytol** 1997 May-Jun;41(3):713–6

p21(Waf1/Cip1) and p53 protein expression in breast cancer. Wakasugi E, et al. **Am J Clin Pathol** 1997 Jun;107(6):684–91

Vascular expression of E-selectin is increased in estrogen-receptor-negative breast cancer: a role for tumor-cell-secreted interleukin-1 alpha. Nguyen M, et al. **Am J Pathol** 1997 Apr;150(4):1307–14

Reciprocal expression of Bcl-2 and p53 in breast ductal carcinoma. Lee WY, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):3007–12

Nuclear accumulation of p53 correlates significantly with clinical features and inversely with the expression of the cyclin-dependent kinase inhibitor p21(WAF1/CIP1) in pancreatic cancer. Harada N, et al. **Br J Cancer** 1997; 76(3):299–305

Fibroblast growth factor 2 in breast cancer: occurrence and prognostic significance. Yiangou C, et al. **Br J Cancer** 1997; 75(1):28–33

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103–9

IGF-II mRNA and protein are expressed in the stroma of invasive breast cancers: an in situ hybridization and immunohistochemistry study. Giani C, et al. **Breast Cancer Res Treat** 1996;41(1):43–50

Clinical significance of bcl-2 gene expression in human breast cancer tissues. Kobayashi S, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):173–81

Proliferating cell nuclear antigen and heat shock protein 70 immunolocalization in invasive ductal breast cancer not otherwise specified. Lazaris ACh, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):43–51

Captopril modulates hormone receptor concentration and inhibits proliferation of human mammary ductal carcinoma cells in culture. Small W Jr, et al. **Breast Cancer Res Treat** 1997 Jul;44(3):217–24

Expression of interleukin-1beta in human breast carcinoma. Jin L, et al. **Cancer** 1997 Aug 1;80(3):421–34

Vimentin and alpha-fetoprotein expression in breast cancer smears: relationship with various prognostic factors. Athanassiadou P, et al. **Cancer Detect Prev** 1997; 21(3):207–12

Differential expression of psoriasin messenger RNA between in situ and invasive human breast carcinoma [published erratum appears in Cancer Res 1997 Feb 15;57(4):793] Leygue E, et al. **Cancer Res** 1996 Oct 15;56(20):4606–9

Ionic signals in T47D human breast cancer cells. Gallagher JD, et al. **Cell Signal** 1996 Jun;8(4):279–84

Differential expression of annexin I in human mammary ductal epithelial cells in normal and benign and malignant breast tissues. Ahn SH, et al. **Clin Exp Metastasis** 1997 Mar;15(2):151–6

Flow cytometric analysis of apoptosis and bcl-2 in primary breast carcinomas: clinical and biological implications. Steck K, et al. **Cytometry** 1996 Jun 1;24(2):116–22

p53 protein expression, cell proliferation and steroid hormone receptors in ductal and lobular in situ carcinomas of the breast. Rudas M, et al. **Eur J Cancer** 1997 Jan;33(1):39–44

Epithelial hyperplasia of usual type expresses both S100-alpha and S100-beta in a heterogeneous pattern but ductal carcinoma in situ can express only S100-alpha in a monotonous pattern. Ichihara S, et al. **Histopathology** 1997 Jun;30(6):533–41

Role of CD44 in nonpalpable T1a and T1b breast cancer. Lyzak JS, et al. **Hum Pathol** 1997 Jul;28(7):772–8

Relationship of a new histological categorization of ductal carcinoma in situ of the breast with size and the immunohistochemical expression of p53, c-erb B2, bcl-2, and ki-67 [see comments] Mack L, et al. **Hum Pathol** 1997 Aug;28(8):974–9. Comment in: Hum Pathol 1997 Aug;28(8):877–80.

Relationship between c-erbB-2 oncoprotein, epidermal growth factor receptor, and estrogen receptor expression in patients with ductal breast carcinoma. Association with tumor phenotypes. Harłozińska A, et al. **In Vivo** 1996 Mar-Apr;10(2):217–22

Assessment of homogeneity in polypeptide expression in breast carcinomas shows widely variable expression in highly malignant tumors. Franzén B, et al. **Int J Cancer** 1996 Oct 21;69(5):408–14

Prognostic role of oestrogen and progesterone receptors in patients with breast cancer: relation to age and lymph node status. Collett K, et al. **J Clin Pathol** 1996 Nov;49(11):920–5

Tumor collagenase stimulatory factor (TCSF) expression and localization in human lung and breast cancers. Polette M, et al. **J Histochem Cytochem** 1997 May;45(5):703–9

Immunohistochemical assay for oestrogen receptors in paraffin wax sections of breast carcinoma using a new monoclonal antibody. Huang A, et al. **J Pathol** 1996 Oct; 180(2):223–7

Expression of MUC apomucins in normal pancreas and pancreatic tumours. Terada T, et al. **J Pathol** 1996 Oct; 180(2):160–5

Co-expression of tenascin and fibronectin in epithelial and stromal cells of benign lesions and ductal carcinomas in the human breast. Yoshida T, et al. **J Pathol** 1997 Aug; 182(4):421–8

p53 tumor suppressor protein and tissue proliferative fraction in infiltrating duct carcinoma. Kesari AL, et al. **J Surg Oncol** 1997 Jul;65(3):159–63

The human breast cell DNA synthesome: its purification from tumor tissue and cell culture. Coll JM, et al. **Oncol Res** 1996;8(10–11):435–47

Different expression of transforming growth factor beta 1 in pancreatic ductal adenocarcinoma and cystic neoplasms. Van Laethem JL, et al. **Pancreas** 1997 Jul;15(1):41–7

Loss of E-cadherin expression associated with lymph node metastases in small breast carcinomas. Hunt NC, et al. **Virchows Arch** 1997 Apr;430(4):285–9

[Breast cancer: comparison between biochemical and immunohistochemical determination of estrogen receptors] Roa JC, et al. **Rev Med Chil** 1996 Mar;124(3):307–12 (Eng. Abstr.) **(Spa)**

MORTALITY

The importance of histologic type on breast cancer survival. Northridge ME, et al. **J Clin Epidemiol** 1997 Mar; 50(3):283–90

Fibrotic focus in invasive ductal carcinoma of the breast: a histopathological prognostic parameter for tumor recurrence and tumor death within three years after the initial operation. Hasebe T, et al. **Jpn J Cancer Res** 1997 Jun;88(6):590–9

Prognostic factors and survival analysis of invasive ductal carcinoma of the breast in Bandung, Indonesia. Hernowo BS, et al. **Kobe J Med Sci** 1995 Aug;41(4):95–112

PATHOLOGY

MIB-1 (Ki-67) immunostaining of breast cancer cells in cytologic smears. Dalquen P, et al. **Acta Cytol** 1997 Mar-Apr;41(2):229–37 (44 ref.)

Fine needle aspiration of breast masses. An analysis of 1,398 patients in a community hospital. Domínguez F, et al. **Acta Cytol** 1997 Mar-Apr;41(2):341–7

Breast cytology. Statistical analysis and cytohistologic correlations. Feichter GE, et al. **Acta Cytol** 1997 Mar-Apr; 41(2):327–32

Cytologic features of ductal and lobular carcinoma in fine needle aspirates of the breast. Greeley CF, et al. **Acta Cytol** 1997 Mar-Apr;41(2):333–40

Cytology of glycogen-rich (clear cell) carcinoma of the breast. A report of two cases. Kern SB, et al. **Acta Cytol** 1997 Mar-Apr;41(2):556–60

A case of inflammatory breast cancer [letter; comment] Ostergaard CA, et al. **Am Fam Physician** 1996 Oct; 54(5):1470, 1473. Comment on: Am Fam Physician 1995 Sep 1;52(3):929–34.

Intraductal carcinoma associated with invasive carcinoma of the breast. A comparison of the two lesions with implications for intraductal carcinoma classification systems. Goldstein NS, et al. **Am J Clin Pathol** 1996 Sep; 106(3):312–8

Cancerization of small ectatic ducts of the breast by ductal carcinoma in situ cells with apocrine snouts: a lesion associated with tubular carcinoma. Goldstein NS, et al. **Am J Clin Pathol** 1997 May;107(5):561–6

Characteristics of antigens from an HCG alpha secreting cell line (ElCo) derived from human breast carcinoma in a Native American patient. Pattillo RA, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S246–54

Microadenocarcinoma of the pancreas--morphologic pattern or pathologic entity? A reevaluation of the original series. Lonardo F, et al. **Am J Surg Pathol** 1996 Nov; 20(11):1385–93

Axillary lymph node metastasis in stage T1a breast cancer: a pathologic review of 82 patients. Whitten TM, et al. **Am Surg** 1997 Feb;63(2):144–9

Nuclear areas in breast cancer: relationship with estrogen and progesterone receptor expression. Maiorana A, et al. **Anal Cell Pathol** 1996 Aug;11(3):199–209

Morphometric determination of AgNORs in breast carcinoma. Correlation with flow cytometry and proliferating cell nuclear antigen. Bellotti M, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):139–44

AgNOR evaluation by image processing methods. Staining modifications and results in 126 invasive ductal breast carcinomas. Giménez-Mas JA, et al. **Anal Quant Cytol Histol** 1996 Feb;18(1):9–18

Cellular sociology of proliferating tumor cells in invasive ductal breast cancer. Haroske G, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):191–8

Association of breast cancer with the finding of atypical ductal hyperplasia at core breast biopsy. Moore MM, et al. **Ann Surg** 1997 Jun;225(6):726–31; discussion 731–3

Comparison of histologic diagnosis between stereotactic core needle biopsy and open surgical biopsy. Bauer RL, et al. **Ann Surg Oncol** 1997 Jun;4(4):316–20

Differentiation of pancreatic ductal carcinoma cells associated with selective expression of protein kinase C isoforms. Franz MG, et al. **Ann Surg Oncol** 1996 Nov; 3(6):564–9

Appropriate management of atypical ductal hyperplasia diagnosed by stereotactic core needle breast biopsy. Gadzala DE, et al. **Ann Surg Oncol** 1997 Jun;4(4):283–6

Heat shock protein 27 overexpression in breast cancer lymph node metastasis. Storm FK, et al. **Ann Surg Oncol** 1996 Nov;3(6):570–3

Thrombomodulin is a new biological and prognostic marker for breast cancer: an immunohistochemical study. Kim SJ, et al. **Anticancer Res** 1997 May-Jun;17(3C):2319–23

Prognostic value of nuclear grading assessed by image cytometry for node negative breast cancer patients. Kimijima I, et al. **Anticancer Res** 1996 Nov-Dec; 16(6C):3949–53

Nucleolar volume in breast carcinomas. Mihailovic D, et al. **Anticancer Res** 1996 Nov-Dec;16(6C):3919–21

Anaplastic carcinoma occurring in association with a mucinous cystic neoplasm of the pancreas. Lane RB Jr, et al. **Arch Pathol Lab Med** 1997 May;121(5):533–5

Osteopontin and p53 expression are associated with tumor progression in a case of synchronous, bilateral, invasive mammary carcinomas. Tuck AB, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):578–84

Histopathology of breast cancer in relation to age. Fisher CJ, et al. **Br J Cancer** 1997;75(4):593–6

Early-onset breast cancer--histopathological and prognostic considerations. Kollias J, et al. **Br J Cancer** 1997; 75(9):1318–23

IGF-II mRNA and protein are expressed in the stroma of invasive breast cancers: an in situ hybridization and immunohistochemistry study. Giani C, et al. **Breast Cancer Res Treat** 1996;41(1):43–50

Analysis of the tumor staining obtained by preoperative IV-DSA for breast cancer patients: density and metastasis correlation. Haga S, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):129–35

Male breast cancer: an 11 year review of 66 patients. McLachlan SA, et al. **Breast Cancer Res Treat** 1996; 40(3):225–30

Invasive ductal carcinoma, fibroadenoma and adjacent breast stroma angiogenesis: an immunohistochemical and morphometrical study. Da Silva ID, et al. **Bull Assoc Anat (Nancy)** 1996 Sep;80(250):17–9

Pathobiological considerations relating to the treatment of intraductal carcinoma (ductal carcinoma in situ) of the breast [published erratum appears in CA Cancer J Clin 1997 Mar-Apr;47(2):68] Fisher ER. **CA Cancer J Clin** 1997 Jan-Feb;47(1):52–64 (48 ref.)

Fine-needle aspiration cytology of pleomorphic lobular carcinoma of the breast. Comparison with the classic type [see comments] Auger M, et al. **Cancer** 1997 Feb 25; 81(1):29–32. Comment in: Cancer 1997 Feb 25;81(1):1–2.

The results of intraoperative consultations in 181 ductal carcinomas in situ of the breast. Cheng L, et al. **Cancer** 1997 Jul 1;80(1):75–9

Lumpectomy margins and much more [editorial; comment] Fisher ER. **Cancer** 1997 Apr 15;79(8):1453–8; discussion 1459–60. Comment on: Cancer 1997 Apr 15;79(8):1568–73.

The relationship between shaved margin and inked margin status in breast excision specimens [see comments] Guidi AJ, et al. **Cancer** 1997 Apr 15;79(8):1568–73. Comment in: Cancer 1997 Apr 15;79(8):1453–8; discussion 1459–60.

Relationship of tumor grade to other pathologic features and to treatment outcome of patients with early stage breast carcinoma treated with breast-conserving therapy. Nixon AJ, et al. **Cancer** 1996 Oct 1;78(7):1426–31

Primary combined malignant melanoma and ductal carcinoma of the breast. A report of two cases. Padmore RF, et al. **Cancer** 1996 Dec 15;78(12):2515–25

Age-related differences in patients with nonpalpable breast carcinomas. Wazer DE, et al. **Cancer** 1996 Oct 1; 78(7):1432–7

Genetic progression, histological grade, and allelic loss in

ductal carcinoma in situ of the breast. Fujii H, et al. **Cancer Res** 1996 Nov 15;56(22):5260–5

Age–stratified incidence of unsuspected mammary carcinoma in women with fibroadenoma. Ricci A Jr, et al. **Conn Med** 1996 Oct;60(10):587–90

Counting mitoses by image processing in Feulgen stained breast cancer sections: the influence of resolution. Beliën JA, et al. **Cytometry** 1997 Jun 1;28(2):135–40

Are epithelial cells in fat or connective tissue a reliable indicator of tumor invasion in fine–needle aspiration of the breast? Maygarden SJ, et al. **Diagn Cytopathol** 1997 Feb; 16(2):137–42

Diagnostic significance of signet ring cells in fine–needle aspirates of the breast. Sethi S, et al. **Diagn Cytopathol** 1997 Feb;16(2):117–21

Fine–needle aspiration cytology of sarcomatoid carcinoma of the breast: a cytologically overlooked neoplasm. Straathof D, et al. **Diagn Cytopathol** 1997 Mar;16(3):242–6

Cytologic features of ductal carcinoma in situ. Theocharous C, et al. **Diagn Cytopathol** 1996 Dec;15(5):367–73

Large core biopsy for diagnostic and prognostic evaluation of invasive breast carcinomas. Di Loreto C, et al. **Eur J Cancer** 1996 Sep;32A(10):1693–700

Nuclear grade in invasive ductal breast carcinoma. Comparative study on nuclear grade and morphometric parameters, hormonal receptor status, flow cytometric analysis and lectin histochemistry. Jonjić N, et al. **Gen Diagn Pathol** 1996 Oct;142(2):83–8

Medullary breast carcinoma vs. poorly differentiated ductal carcinoma: an immunohistochemical study with keratin 19 and oestrogen receptor staining. Jensen ML, et al. **Histopathology** 1996 Sep;29(3):241–5

Ductal carcinoma in situ of the breast: the clinical significance of histological classification. Quinn CM, et al. **Histopathology** 1997 Feb;30(2):113–9

Quantitative image cytometry of infiltrating ductal carcinoma: comparison with prognostic parameters and reproducibility of histological grade. Frierson HF Jr, et al. **Hum Pathol** 1996 Aug;27(8):821–6

Cathepsin D in host stromal cells, but not in tumor cells, is associated with aggressive behavior in node–negative breast cancer [see comments] Nadji M, et al. **Hum Pathol** 1996 Sep;27(9):890–5. Comment in: Hum Pathol 1996 Sep;27(9):869–71.

Breast papillomas with atypical ductal hyperplasia: a clinicopathologic study. Raju U, et al. **Hum Pathol** 1996 Nov;27(11):1231–8

Ductal carcinoma in situ [letter; comment] Rosai J. **Hum Pathol** 1996 Nov;27(11):1247. Comment on: Hum Pathol 1996 Jul;27(7):744.

Ductal carcinoma in situ of the breast: reproducibility of histological subtype analysis [see comments] Scott MA, et al. **Hum Pathol** 1997 Aug;28(8):967–73. Comment in: Hum Pathol 1997 Aug;28(8):877–80.

Cell surface CD44v5 levels correlate with progesterone receptors and a tumor size > 2 cm in infiltrating ductal carcinomas of the breast [letter] Nuñez MI, et al. **Int J Biol Markers** 1996 Oct–Dec;11(4):220–2

Chromosome 1 aneusomy with 1p36 under–representation is related to histologic grade, DNA aneuploidy, high c–erb B–2 and loss of bcl–2 expression in ductal breast carcinoma. Farabegoli F, et al. **Int J Cancer** 1996 Oct 21;69(5):381–5

The value of breast lumpectomy margin assessment as a predictor of residual tumor burden. Wazer DE, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):291–9

Bilateral primary breast cancers: a clinicopathological study of the second primary. Awad AT, et al. **Int Surg** 1996 Jan–Mar;81(1):57–60

Cytological and architectural heterogeneity in ductal carcinoma in situ of the breast. Quinn CM, et al. **J Clin Pathol** 1997 Jul;50(7):596–9

Intraductal papillary adenocarcinoma with mucin hypersecretion and coexistent invasive ductal carcinoma of the pancreas with apparent topographic separation. Miyakawa S, et al. **J Gastroenterol** 1996 Dec;31(6):889–93

Unbiased stereological estimation of the number and volume of nuclei and nuclear size variability in invasive ductal breast carcinomas. Artacho–Pérula E, et al. **J Microsc** 1997 May;186 (Pt 2):133–42

Relationship between the size and margin status of ductal carcinoma in situ of the breast and residual disease [see comments] Cheng L, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1356–60. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1330–1.

Predicting residual disease and local recurrence in patients with ductal carcinoma in situ [editorial; comment] Silverstein MJ. **J Natl Cancer Inst** 1997 Sep 17; 89(18):1330–1. Comment on: J Natl Cancer Inst 1997 Sep 17;89(18):1356–60.

Computerized scene segmentation for the discrimination of architectural features in ductal proliferative lesions of the breast. Anderson NH, et al. **J Pathol** 1997 Apr; 181(4):374–80

Differentiation pathways in primary invasive breast carcinoma as suggested by intermediate filament and biopathological marker expression. Santini D, et al. **J Pathol** 1996 Aug;179(4):386–91

Perineural invasion by ductal adenocarcinoma of the pancreas. Takahashi T, et al. **J Surg Oncol** 1997 Jul; 65(3):164–70

Pituitary adenoma and bilateral male breast cancer: an unusual association. Volm MD, et al. **J Surg Oncol** 1997 Jan;64(1):74–8

Application of image analysis and neural networks to the pathology diagnosis of intraductal proliferative lesions of the breast. Fukushima N, et al. **Jpn J Cancer Res** 1997 Mar;88(3):328–33

Fibrotic focus in invasive ductal carcinoma of the breast: a histopathological prognostic parameter for tumor recurrence and tumor death within three years after the initial operation. Hasebe T, et al. **Jpn J Cancer Res** 1997 Jun;88(6):590–9

Breast–duct endoscopy to study stages of cancerous breast disease. Love SM, et al. **Lancet** 1996 Oct 12; 348(9033):997–9

Metaplastic carcinoma of the breast with melanocytic differentiation. Ruffolo EF, et al. **Mod Pathol** 1997 Jun; 10(6):592–6

Affinity for the insulin–like growth factor–II (IGF–II) receptor inhibits autocrine IGF–II activity in MCF–7 breast cancer cells. Ellis MJ, et al. **Mol Endocrinol** 1996 Mar;10(3):286–97

Histological grade in invasive ductal carcinoma of breast correlates with the proliferative activity evaluated by BrdU: an immunohistochemical study including correlations with p53, c–erbB–2 and estrogen receptor status. Moriki T, et al. **Pathol Int** 1996 Jun;46(6):417–25

Proliferation marker MIB–1 correlates well with proliferative activity evaluated by BrdU in breast cancer: an immunohistochemical study including correlation with PCNA, p53, c–erbB–2 and estrogen receptor status. Moriki T, et al. **Pathol Int** 1996 Dec;46(12):953–61

Quantitative study of ductal breast cancer progression. A progression index (P.I.) for premalignant lesions and in situ carcinoma. Mariuzzi GM, et al. **Pathol Res Pract** 1996 May; 192(5):428–36

Dilated duct pattern at mammography. Huynh PT, et al. **Radiology** 1997 Jul;204(1):137–41

Stereotactic core needle biopsy of multiple sites in the breast: efficacy and effect on patient care. Rosenblatt R, et al. **Radiology** 1996 Oct;201(1):67–70

The role of pathology in premalignancy and as a guide for treatment and prognosis in breast cancer. Simpson JF, et al. **Semin Oncol** 1996 Aug;23(4):428–35 (75 ref.)

The argyrophilic nucleolar organizer region (Ag–NOR) score in invasive ductal carcinoma of the pancreas. Toyota N, et al. **Surg Today** 1997;27(5):414–9

Differentiation of pancreatic carcinoma induced by retinoic acid or sodium butyrate: a morphological and molecular analysis of four cell lines. Egawa N, et al. **Virchows Arch** 1996 Sep;429(1):59–68

Endocrine cells in intraductal papillary–mucinous neoplasms of the pancreas. A histochemical and immunohistochemical study. Terada T, et al. **Virchows Arch** 1997 Jul;431(1):31–6

Expression of basic fibroblast growth factor (FGF–2)–associated with tumour proliferation in human pancreatic carcinoma. Yamazaki K, et al. **Virchows Arch** 1997 Aug;431(2):95–101

Invasive breast carcinoma with granulomatous stromal response. Alujević A, et al. **Zentralbl Gynakol** 1997; 119(7):343–5

[Ductal hyperplasia and ductal carcinoma in situ. Definition—classification—differential diagnosis] Böcker W, et al. **Pathologe** 1997 Jan;18(1):3–18 (98 ref.) (Eng. Abstr.) **(Ger)**

[Developmental trends in breast pathology (editorial)] Böcker W. **Pathologe** 1997 Jan;18(1):1–2 **(Ger)**

[DNA cytometry in breast carcinoma. Review of method and value in assessing prognosis] Sinn HP, et al. **Pathologe** 1997 Jan;18(1):19–26 (81 ref.) (Eng. Abstr.) **(Ger)**

[The mental foramen syndrome] Altay A, et al. **Fogorv Sz** 1997 May;90(5):145–50 (23 ref.) (Eng. Abstr.) **(Hun)**

[Male breast cancer. Histochemical and flow cytometry analysis of 6 cases] Galasso MG, et al. **Pathologica** 1995 Oct;87(5):503–5 (Eng. Abstr.) **(Ita)**

[Metaplastic breast cancer] Volchenko NN, et al. **Arkh Patol** 1996 Jan–Feb;58(1):10–4 (Eng. Abstr.) **(Rus)**

[Aneuploidy and proliferative activity in breast cancer (flow–cytometric investigation)] Bychkova NV, et al. **Vopr Onkol** 1997;43(2):171–5 (Eng. Abstr.) **(Rus)**

[Behavior of cytosolic tissue polypeptide specific antigen in infiltrating ductal carcinoma of the breast classified as a function of percentage of cells in S phase of the cell cycle (letter)] Alvarez A, et al. **Med Clin (Barc)** 1996 Jun 15; 107(3):116 **(Spa)**

[Immunohistochemical analysis of p53 and c–erbB–2 in breast cancer] Castiglioni T, et al. **Medicina (B Aires)** 1995;55(5 Pt 1):415–20 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Assessment of hormone dependence of comedo ductal carcinoma in situ of the breast [see comments] Holland PA, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1059–65 . Comment in: J Natl Cancer Inst 1997 Jul 16;89(14):991–3.

PREVENTION & CONTROL

[Risk factors and breast carcinoma: our experience in a department of senology] Galati G, et al. **G Chir** 1996 Jun–Jul;17(6–7):353–7 (Eng. Abstr.) **(Ita)**

PSYCHOLOGY

The voice of the breast cancer patient—a lonely cry in the wilderness. Thornton H. **Eur J Cancer** 1997 May; 33(6):825–8

Women's experiences of non–invasive breast cancer: literature review and study report. Webb C, et al. **J Adv Nurs** 1997 Mar;25(3):514–25 (62 ref.)

RADIOGRAPHY

Pathologic and mammographic findings predicting the adequacy of tumor excision before breast–conserving therapy. Beron PJ, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1409–14

Mammography of breast carcinoma in women who have mutations of the breast cancer gene BRCA1: initial experience. Helvie MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1599–602

Mammographic features of local recurrence in women who have undergone breast–conserving therapy for ductal carcinoma in situ. Liberman L, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):489–93

The detection of ductal carcinoma in situ at mammographic screening enables the diagnosis of small, grade 3 invasive tumours. Evans AJ, et al. **Br J Cancer** 1997;75(4):542–4

Evaluation of a neural network classifier for pancreatic masses based on CT findings. Ikeda M, et al. **Comput Med Imaging Graph** 1997 May–Jun;21(3):175–83

The value of setup portal films as an estimate of a patient's position throughout fractionated tangential breast irradiation: an on–line study. McGee KP, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):223–8

Breast imaging case of the day. Infiltrating ductal carcinoma, moderately well–differentiated. Hendrix TM, et al. **Radiographics** 1996 Mar;16(2):452–5

Breast imaging case of the day. Recurrent infiltrating ductal carcinoma and radiation–induced dystrophic calcifications. Parker CP, et al. **Radiographics** 1997 Jul–Aug;17(4):1011–3

Dilated duct pattern at mammography. Huynh PT, et al. **Radiology** 1997 Jul;204(1):137–41

Mammographic findings of recurrent breast cancer after lumpectomy and radiation therapy: comparison with the primary tumor. Philpotts LE, et al. **Radiology** 1996 Dec; 201(3):767–71

[Helical CT of the breast: detection of intraductal spread and multicentricity of breast cancer] Uematsu T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb;57(3):85–8 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

99mTc MIBI scintimammography with a high resolution single tube gamma camera: preliminary study. De Vincentis G, et al. **Anticancer Res** 1997 May–Jun;17(3B):1627–30

Scintimammography with technetium–99m tetrofosmin in suspected breast cancer. Schillaci O, et al. **Anticancer Res** 1997 May–Jun;17(3B):1623–6

99mTc–labeled sigma–receptor–binding complex: synthesis, characterization, and specific binding to human ductal breast carcinoma (T47D) cells. John CS, et al. **Bioconjug Chem** 1997 May–Jun;8(3):304–9

Breast carcinoma fortuitously discovered on myocardial perfusion imaging. Gordon L, et al. **Clin Nucl Med** 1996 Apr;21(4):330

Qualitative [18F]FDG positron emission tomography in primary breast cancer: clinical relevance and practicability. Scheidhauer K, et al. **Eur J Nucl Med** 1996 Jun; 23(6):618–23

Comparison of indium–111 octreotide and thallium–201 scintigraphy in patients mammographically suspected of having breast cancer: preliminary results. Vural G, et al. **Eur J Nucl Med** 1997 Mar;24(3):312–5

Standardized uptake value and quantification of metabolism for breast cancer imaging with FDG and L–[1–11C]tyrosine PET. Kole AC, et al. **J Nucl Med** 1997 May;38(5):692–6

Intense uptake of technetium–99m–MDP in primary breast adenocarcinoma with sarcomatoid metaplasia. Pickhardt PJ, et al. **J Nucl Med** 1997 Apr;38(4):528–30

[Detection of multi–focal breast carcinoma using 2[18F] fluoro–deoxy–D–glucose positron emission tomography (FDG–PET)] Scharl A, et al. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):434–7 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

Cytologic findings in a case of postirradiation angiosarcoma of the breast [letter] Layfield LJ, et al. **Acta Cytol** 1997 Mar–Apr;41(2):612–4

Sonographic tailoring of electron beam boost site after lumpectomy and radiation therapy for breast cancer. Birdwell RL, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):39–40

Cellulitis of the breast as a complication of breast–conserving surgery and irradiation. Hughes LL, et al. **Am J Clin Oncol** 1997 Aug;20(4):338–41

Lumpectomy and breast irradiation for breast cancer after radiotherapy for lymphoma. Karasek K, et al. **Am J Clin Oncol** 1996 Oct;19(5):451–4

Lumpectomy and radiation treatment for invasive lobular carcinoma of the breast. Warneke J, et al. **Am J Surg** 1996 Nov;172(5):496–500

Secondary tumours after prophylactic cranial irradiation.

Leung J, et al. **Australas Radiol** 1996 Feb;40(1):43–4

Subclavian artery stenosis presenting as posterior cerebrovascular events after adjuvant radiotherapy for breast cancer. Lewis J, et al.
Clin Oncol (R Coll Radiol) 1997;9(2):122–3

Results of conservative surgery and radiation for mammographically detected ductal carcinoma in situ (DCIS). Fowble B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):949–57

Early-stage bilateral breast cancer treated with breast-conserving surgery and definitive irradiation: the University of Pennsylvania experience. Fung MC, et al.
Int J Radiat Oncol Biol Phys 1997 Jul 15;38(5):959–67

The value of setup portal films as an estimate of a patient's position throughout fractionated tangential breast irradiation: an on-line study. McGee KP, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 1;37(1):223–8

Low-dose-rate brachytherapy as the sole radiation modality in the management of patients with early-stage breast cancer treated with breast-conserving therapy: preliminary results of a pilot trial. Vicini FA, et al.
Int J Radiat Oncol Biol Phys 1997 May 1;38(2):301–10

Role of a 10-Gy boost in the conservative treatment of early breast cancer: results of a randomized clinical trial in Lyon, France. Romestaing P, et al. **J Clin Oncol** 1997 Mar; 15(3):963–8

Breast irradiation in ductal carcinoma-in-situ [letter] Thornton H. **Lancet** 1997 May 24;349(9064):1555

Lumpectomy with and without radiation for early-stage breast cancer and DCIS. Marks LB, et al.
Oncology (Huntingt) 1997 Sep;11(9):1361–8, 1371; discussion 1372, 1374 (68 ref.)

Measurement of the peripheral dose for the tangential breast treatment technique with Co-60 gamma radiation and high energy X-rays. Van der Giessen PH. **Radiother Oncol** 1997 Mar;42(3):257–64

SECONDARY

Carcinoma en cuirasse: uncontrolled local recurrence of breast carcinoma after transverse rectus abdominis myocutaneous flap reconstruction [letter] Wells DC, et al.
AJR Am J Roentgenol 1997 Sep;169(3):914–5

Factors influencing the distribution of metastases and survival in metastatic breast carcinoma. Barişta I, et al.
Am J Clin Oncol 1996 Dec;19(6):569–73

Differential sensitivity of estrogen/progesterone receptors and BRST-2 markers in metastatic ductal and lobular breast carcinoma to the skin. Wallace ML, et al.
Am J Dermatopathol 1996 Jun;18(3):241–7

Solitary breast metastasis to the ampulla and distal common bile duct. Titus AS, et al. **Am Surg** 1997 Jun;63(6):512–5

Pulmonary resection for metastatic breast cancer. Simpson R, et al. **Aust N Z J Surg** 1997 Oct;67(10):717–9

Continuous intrathecal perfusion of methotrexate for carcinomatous meningitis with pharmacokinetic studies: two case studies. Petit T, et al.
Clin Oncol (R Coll Radiol) 1997;9(3):189–90

Tumor size and axillary metastasis, a correlative occurrence in 1244 cases of breast cancer between 1980 and 1995. Shetty MR, et al. **Eur J Surg Oncol** 1997 Apr;23(2):139–41

Loss of heterozygosity on chromosome arm 16q in breast cancer metastases. Driouch K, et al.
Genes Chromosomes Cancer 1997 Jul;19(3):185–91

Association of tumor angiogenesis with bone marrow micrometastases in breast cancer patients. Fox SB, et al.
J Natl Cancer Inst 1997 Jul 16;89(14):1044–9

Ductal carcinoma in situ of the breast: a new model [editorial; comment] Hayes DF. **J Natl Cancer Inst** 1997 Jul 16; 89(14):991–3 (17 ref.). Comment on: J Natl Cancer Inst 1997 Jul 16;89(14):1059–65.

Vulvar metastasis of breast carcinoma. A case report. Curtin WM, et al. **J Reprod Med** 1997 Jan;42(1):61–3

Implication of collagen type I-induced membrane-type 1-matrix metalloproteinase expression and matrix metalloproteinase-2 activation in the metastatic progression of breast carcinoma. Gilles C, et al. **Lab Invest** 1997 May; 76(5):651–60

The role of wide-spectrum cytokeratin staining of the bone marrow cores in patients with ductal carcinoma of the breast. Dunphy CH. **Mod Pathol** 1996 Oct;9(10):955–8

Coronary embolization in a woman with advanced breast cancer [letter] Watzinger N, et al. **N Engl J Med** 1997 Apr 10;336(15):1104–5

Headache, vomiting and diplopia. Cantón A, et al.
Postgrad Med J 1997 Jun;73(860):357–9

Tumor-associated retinal pigment epithelial tears. Leys AM, et al. **Retina** 1997;17(3):258–60 (5 ref.)

[Is lymphangiomatous carcinomatosis a radiological diagnosis?] Hilfiker PR, et al.
Schweiz Rundsch Med Prax 1997 Jan 14;86(3):59–61 **(Ger)**

[Breast carcinoma metastatic to meningioma: review of the literature and description of 2 new cases] Fornelli A, et al. **Pathologica** 1995 Oct;87(5):506–12 (37 ref.) (Eng. Abstr.) **(Ita)**

[A case of choroid metastasis of cancer of the breast with an excellent response to chemotherapy (letter)] Marcos Sánchez F, et al. **An Med Interna** 1996 Nov;13(11):567 **(Spa)**

SECRETION

Nonpalpable breast cancer with nipple discharge: how should it be treated? Ito Y, et al. **Anticancer Res** 1997 Jan-Feb; 17(1B):791–4

SURGERY

Lumpectomy and breast irradiation for breast cancer after radiotherapy for lymphoma. Karasek K, et al.
Am J Clin Oncol 1996 Oct;19(5):451–4

Lumpectomy and radiation treatment for invasive lobular carcinoma of the breast. Warneke J, et al. **Am J Surg** 1996 Nov;172(5):496–500

A method of breast reconstruction with a deepithelialized TRAM flap via the abdominal approach for failed implant salvage in postmastectomy patients. Yager JS, et al.
Ann Plast Surg 1997 Aug;39(2):178–81

Axillary dissection can be avoided in selected breast cancer patients: analysis of 401 cases. Greco M, et al.
Anticancer Res 1996 Nov-Dec;16(6C):3913–7

Nonpalpable breast cancer with nipple discharge: how should it be treated? Ito Y, et al. **Anticancer Res** 1997 Jan-Feb; 17(1B):791–4

Thrombomodulin is a new biological and prognostic marker for breast cancer: an immunohistochemical study. Kim SJ, et al. **Anticancer Res** 1997 May-Jun;17(3C):2319–23

Results of 1001 pancreatic resections for invasive ductal adenocarcinoma of the pancreas. Hirata K, et al.
Arch Surg 1997 Jul;132(7):771–6; discussion 777

Pulmonary resection for metastatic breast cancer. Simpson R, et al. **Aust N Z J Surg** 1997 Oct;67(10):717–9

Pilonidal cyst of the breast. Ferdinand RD, et al.
Br J Surg 1997 Jun;84(6):784

Conservative surgery for infiltrating lobular breast carcinoma. Salvadori B, et al. **Br J Surg** 1997 Jan; 84(1):106–9

The ileocaeco-urethrostomy with multiple transverse taeniamyotomies for bladder replacement: an alternative to detubularized neobladders. Morphological, functional and metabolic results after 9 years' experience. Alcini E, et al. **Br J Urol** 1997 Mar;79(3):333–8

Relationship of tumor grade to other pathologic features and to treatment outcome of patients with early stage breast carcinoma treated with breast-conserving therapy. Nixon AJ, et al. **Cancer** 1996 Oct 1;78(7):1426–31

Menstrual phase and breast cancer surgery: influence on clinical outcome or pitfall of statistical analysis? Tempfer C, et al. **Cancer Lett** 1996 Dec 20;110(1–2):145–8

Ductal carcinoma in situ of the male breast. Analysis of 31 cases [see comments] Cutuli B, et al. **Eur J Cancer** 1997 Jan;33(1):35–8 (44 ref.). Comment in: Eur J Cancer 1997 Jan;33(1):10–1.

Effect of a breast saving procedure on lactation. Wobbes T. **Eur J Surg** 1996 May;162(5):419–20

Subcutaneous mastectomy for primary breast cancer and ductal carcinoma in situ. Cheung KL, et al.
Eur J Surg Oncol 1997 Aug;23(4):343–7

Results of conservative surgery and radiation for mammographically detected ductal carcinoma in situ (DCIS). Fowble B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):949–57

Early-stage bilateral breast cancer treated with breast-conserving surgery and definitive irradiation: the University of Pennsylvania experience. Fung MC, et al.
Int J Radiat Oncol Biol Phys 1997 Jul 15;38(5):959–67

Ductal adenocarcinoma of the body and tail of the pancreas. Sperti C, et al. **J Am Coll Surg** 1997 Sep;185(3):255–9

Therapeutic options and results for the management of minimally invasive carcinoma of the breast: influence of axillary dissection for treatment of T1a and T1b lesions [see comments] White RE, et al. **J Am Coll Surg** 1996 Dec; 183(6):575–82. Comment in: J Am Coll Surg 1997 Jun;184(6):671–3.

Doctors strive to minimize DCIS treatment [news] Blume E. **J Natl Cancer Inst** 1997 Aug 6;89(15):1092–5

Relationship between the size and margin status of ductal carcinoma in situ of the breast and residual disease [see comments] Cheng L, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1356–60. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1330–1.

Case against axillary lymphadenectomy for most patients with infiltrating breast cancer [editorial] Cady B.
J Surg Oncol 1997 Sep;66(1):7–10 (34 ref.)

Lumpectomy with and without radiation for early-stage breast cancer and DCIS. Marks LB, et al.
Oncology (Huntingt) 1997 Sep;11(9):1361–8, 1371; discussion 1372, 1374 (68 ref.)

Management of ductal carcinoma in situ. Talamonti MS.
Semin Surg Oncol 1996 Sep-Oct;12(5):300–13 (62 ref.)

Ductal carcinoma in situ. The success of breast conservation therapy: a shared experience of two single institutional nonrandomized prospective studies. Lagios MD, et al.
Surg Oncol Clin N Am 1997 Apr;6(2):385–92

Histometric analysis of the distal pancreas in pancreatic head cancer. Yamaguchi T, et al. **Surg Today** 1997;27(5):420–8

Second ipsilateral breast cancer after modified radical mastectomy: a case report and review of the literature. Miller LA, et al. **Surgery** 1997 Jan;121(1):109–11 (5 ref.)

Long-term survival in pancreatic cancer: pylorus-preserving versus Whipple pancreatoduodenectomy. Mosca F, et al.
Surgery 1997 Sep;122(3):553–66

Recurrence after resection for ductal adenocarcinoma of the pancreas. Sperti C, et al. **World J Surg** 1997 Feb; 21(2):195–200

[Total pancreatectomy for diffuse and malignant mucinous ductal ectasia of the pancreas. Apropos of 2 cases] Quandalle P, et al. **Ann Chir** 1996;50(10):886–91 (Eng. Abstr.) **(Fre)**

[Respective role of conservative and radical treatment of breast cancers] Body G, et al.
J Gynecol Obstet Biol Reprod (Paris) 1997;26(4):350–6 (36 ref.) **(Fre)**

[Breast cancers with central localization: conservative treatment by tumorectomy with ablation of the areolar plaque] Multon O, et al. **Presse Med** 1997 Jun 21; 26(21):988–94 (Eng. Abstr.) **(Fre)**

[Stewart-Treves syndrome after breast carcinoma] Fink D, et al. **Geburtshilfe Frauenheilkd** 1996 Jan;56(1):58–9 (Eng. Abstr.) **(Ger)**

[Immediate reconstruction of the breast with the free, microvascular "TRAM" flap] Gabka CJ, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:101–4 (Eng. Abstr.) **(Ger)**

[Standardized pathologic examination of breast excision specimen. Relevance within an interdisciplinary practice protocol for quality management of breast saving therapy] Decker T, et al. **Pathologe** 1997 Jan;18(1):53–9 (Eng. Abstr.) **(Ger)**

[Natural history of breast cancer: lobular carcinoma versus ductal carcinoma in our experience] Casolo P, et al.
Ann Ital Chir 1997 Jan-Feb;68(1):43–7; discussion 48 (Eng. Abstr.) **(Ita)**

[Lacking effect of timing of surgery in relation to the menstrual cycle on prognosis of breast cancer in premenopausal women] Mondini G, et al. **G Chir** 1997 Jan-Feb;18(1–2):7–11 (Eng. Abstr.) **(Ita)**

[Surgical treatment of liver metastases of breast carcinoma. Our experience] Anania G, et al. **Minerva Chir** 1997 Mar; 52(3):209–15 (Eng. Abstr.) **(Ita)**

THERAPY

National treatment trends for ductal carcinoma in situ of the breast. Winchester DJ, et al. **Arch Surg** 1997 Jun; 132(6):660–5

Ductal carcinoma in situ. Part 2: Treatment. Delaney G, et al. **Aust N Z J Surg** 1997 Apr;67(4):157–65 (83 ref.)

Male breast cancer: an 11 year review of 66 patients. McLachlan SA, et al. **Breast Cancer Res Treat** 1996; 40(3):225–30

Incidence and treatment of ductal carcinoma in situ of the breast [editorial; comment] Silverstein MJ.
Eur J Cancer 1997 Jan;33(1):10–1. Comment on: Eur J Cancer 1997 Jan;33(1):35–8.

Ductal carcinoma in situ of the breast--current management. Sharma S, et al. **Eur J Surg Oncol** 1997 Jun;23(3):191–7 (103 ref.)

Multimodal therapies in ductal pancreatic cancer. The future. Link KH, et al. **Int J Pancreatol** 1997 Feb;21(1):71–83 (86 ref.)

New clinical trials under way for DCIS [news] Blume E.
J Natl Cancer Inst 1997 Aug 6;89(15):1094

Ductal carcinoma in situ of the breast: a new model [editorial; comment] Hayes DF. **J Natl Cancer Inst** 1997 Jul 16; 89(14):991–3 (17 ref.). Comment on: J Natl Cancer Inst 1997 Jul 16;89(14):1059–65.

Management of lobular carcinoma in situ and ductal carcinoma in situ of the breast. Wood WC.
Semin Oncol 1996 Aug;23(4):446–52 (50 ref.)

[Predictive factors of local recurrence of in situ intraductal carcinoma. Apropos of 217 cases] Abbes M, et al.
Bull Cancer 1997 Feb;84(2):135–40 (Eng. Abstr.) **(Fre)**

[Angiosarcoma of the breast after breast-preserving therapy of invasive ductal carcinoma] Friedrich M, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Aug;165(2):195–7 **(Ger)**

[Combined breast-preserving surgery, chemotherapy and radiotherapy in the treatment of breast carcinoma. Effect of the interval between surgery and the beginning of radiotherapy (published erratum appears in Strahlenther Onkol 1997 Apr;173(4):245)] Willers H, et al.
Strahlenther Onkol 1997 Mar;173(3):148–54 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Sonographic tailoring of electron beam boost site after lumpectomy and radiation therapy for breast cancer. Birdwell RL, et al. **AJR Am J Roentgenol** 1997 Jan; 168(1):39–40

Ultrasound of malignant breast microcalcifications: role in evaluation and guided procedures. Rickard MT.
Australas Radiol 1996 Feb;40(1):26–31

Clinically and mammographically occult invasive ductal carcinoma diagnosed by ultrasound: the focally dilated duct. Yang WT, et al. **Australas Radiol** 1997 Feb;41(1):73–5

Radiological case of the month. Benign simple cyst, benign fibroadenoma & malignant carcinoma of the breast. Anderson NK, et al. **J Ark Med Soc** 1996 Sep;93(4):203–9

Breast imaging case of the day. Infiltrating ductal carcinoma, moderately well-differentiated. Hendrix TM, et al.
Radiographics 1996 Mar;16(2):452–5

Sonographic blood flow measurements in malignant breast tumors. A potential new prognostic factor. Sohn C, et al.
Surg Endosc 1997 Sep;11(9):957–60

Optimized differential diagnosis of breast lesions by combined B-mode and color Doppler sonography [see comments] Schelling M, et al. **Ultrasound Obstet Gynecol** 1997 Jul; 10(1):48–53. Comment in: Ultrasound Obstet Gynecol 1997 Jul;10(1):5–8. Comment in: Ultrasound Obstet Gynecol 1997 Jul;10(1):9–11.

[Potentialities of ultrasound examination in differential diagnosis of benign nodules and breast cancer] Vetshev PS, et al. **Khirurgiia (Mosk)** 1997;(6):15–20 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

[Damage to breast cancer cells after the use of radiotherapy modifiers] Monakhov AG, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):684–6 **(Rus)**

VETERINARY

Papillary ductal adenocarcinoma in the mammary glands of two horses. Reppas GP, et al. **Vet Rec** 1996 May 25; 138(21):518–9

VIROLOGY

Breast cancer in a man with human immunodeficiency virus infection. Widrick P, et al. **Mayo Clin Proc** 1997 Aug; 72(8):761–4 (21 ref.)

CARCINOMA, INTRADUCTAL see **CARCINOMA, INTRADUCTAL, NONINFILTRATING**

CARCINOMA, INTRADUCTAL, NONINFILTRATING

CHEMISTRY

Immunohistochemical detection of oestrogen receptors in ductal carcinoma in situ of the breast. Karayiannakis AJ, et al. **Eur J Surg Oncol** 1996 Dec;22(6):578–82

CLASSIFICATION

Comparison of cytomorphological and architectural heterogeneity in mammographically-detected ductal carcinoma in situ. Harrison M, et al. **Histopathology** 1996 May;28(5):445–50

COMPLICATIONS

Carcinoma of the breast in a sickle cell disease patient: case report. Adebamowo CA, et al. **East Afr Med J** 1996 Jul; 73(7):489–90

DIAGNOSIS

Intraductal papillary-mucinous tumours of the pancreas. Clinical and radiological aspects. De Ronde T, et al. **Acta Gastroenterol Belg** 1996 Jul–Sep;59(3):208–10

CT diagnosis of intraductal papillary neoplasm of the pancreas in comparison with histopathologic findings. Kyokane T, et al. **Int J Pancreatol** 1996 Dec;20(3):163–7

A case of intraductal papillary tumor of pancreas associated with mucinous ductal ectasia. Baek IS, et al. **Korean J Intern Med** 1997 Jan;12(1):100–4 (11 ref.)

Breast imaging case of the day. Multicentric intraductal papillary carcinoma. Tobin CE, et al. **Radiographics** 1996 May;16(3):720–2

GENETICS

Analysis of loss of heterozygosity on chromosome 11q13 in atypical ductal hyperplasia and in situ carcinoma of the breast. Chuaqui RF, et al. **Am J Pathol** 1997 Jan; 150(1):297–303

Genetic changes in intraductal breast cancer detected by comparative genomic hybridization. Kuukasjärvi T, et al. **Am J Pathol** 1997 Apr;150(4):1465–71

Detection of K-ras gene mutations at codon 12 in the pancreatic juice of patients with intraductal papillary mucinous tumors of the pancreas. Kondo H, et al. **Cancer** 1997 Mar 1;79(5):900–5

Intraductal component and BRCA1-associated breast cancer [letter; comment] Jacquemler J, et al. **Lancet** 1996 Oct 19; 348(9034):1098. Comment on: Lancet 1996 Aug 10;348(9024):408.

IMMUNOLOGY

Immunohistochemical localization of Bcl-2 and Bax proteins in in situ and invasive duct breast carcinomas. Kapucuoglu N, et al. **Virchows Arch** 1997 Jan;430(1):17–22

METABOLISM

Expression of tenascin in invasion border of early breast cancer correlates with higher risk of distant metastasis. Jahkola T, et al. **Int J Cancer** 1996 Dec 20;69(6):445–7

E-cadherin (E-cad) expression in duct carcinoma in situ (DCIS) of the breast. Gupta SK, et al. **Virchows Arch** 1997 Jan;430(1):23–8

PATHOLOGY

Fine needle aspiration cytology of cystic hypersecretory carcinoma of the breast. A case report. Kim MK, et al. **Acta Cytol** 1997 May-Jun;41(3):892–6

Solid papillary carcinoma of the breast [letter; comment] Quinn CM, et al. **Am J Surg Pathol** 1997 Feb;21(2):256–8 . Comment on: Am J Surg Pathol 1995 Nov;19(11):1237–44.

Intraluminal crystalloids in breast carcinoma. Immunohistochemical, ultrastructural, and energy-dispersive x-ray element analysis in four cases. Ro JY, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):593–8

Pathobiological considerations relating to the treatment of intraductal carcinoma (ductal carcinoma in situ) of the breast [published erratum appears in CA Cancer J Clin 1997 Mar-Apr;47(2):68] Fisher ER. **CA Cancer J Clin** 1997 Jan-Feb;47(1):52–64 (48 ref.)

Pathology of R4 spiculated lesions in the breast screening programme. Douglas-Jones AG, et al. **Histopathology** 1997 Mar;30(3):214–20

p53 expression in intraductal epithelial hyperplasia, atypical intraductal hyperplasia, and intraductal carcinoma of the breast [letter; comment] Fischler DF, et al. **Histopathology** 1996 Jan;28(1):93–4. Comment on: Histopathology 1995 May;26(5):439–43.

Comparison of cytomorphological and architectural heterogeneity in mammographically-detected ductal carcinoma in situ. Harrison M, et al. **Histopathology** 1996 May;28(5):445–50

Cancerization of phyllodes tumour [letter] Naresh KN. **Histopathology** 1997 Jan;30(1):98–9

Intraductal papillary adenocarcinoma with mucin hypersecretion and coexistent invasive ductal carcinoma of the pancreas with apparent topographic separation. Miyakawa S, et al. **J Gastroenterol** 1996 Dec;31(6):889–93

Endocrine cells in intraductal papillary-mucinous neoplasms of the pancreas. A histochemical and immunohistochemical study. Terada T, et al. **Virchows Arch** 1997 Jul;431(1):31–6

[Intraductal papillary mucinous tumors of the pancreas. Clinical and morphological aspects in 30 patients] Barbe L, et al. **Gastroenterol Clin Biol** 1997;21(4):278–86 (Eng. Abstr.) **(Fre)**

[Intraductal papillary mucinous tumors of the pancreas. An emerging entity? (editorial)] Bernard JP, et al. **Gastroenterol Clin Biol** 1997;21(4):275–7 **(Fre)**

SURGERY

[Immediate reconstruction of the breast with the free, microvascular "TRAM" flap] Gabka CJ, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:101–4 (Eng. Abstr.) **(Ger)**

CARCINOMA, INTRAEPITHELIAL see **CARCINOMA IN SITU**

CARCINOMA, ISLET CELL

Rare pancreatic tumours in children (other than nesidioblastosis). Mammen A, et al. **Aust N Z J Surg** 1997 Oct;67(10):720–1

Gastrointestinal endocrine tumors. Krejs GJ. **Scand J Gastroenterol Suppl** 1996;220:121–3 (20 ref.)

BLOOD

The use of chromogranin, synaptophysin and islet amyloid polypeptide as markers for neuroendocrine tumours. Stridsberg M. **Ups J Med Sci** 1995;100(3):169–99 (186 ref.)

METABOLISM

Expression of peptide receptors in human endocrine tumours of the pancreas. Tang C, et al. **Gut** 1997 Feb;40(2):267–71

PATHOLOGY

Mixed acinar-endocrine carcinoma of the pancreas—a case report. Cho KJ, et al. **J Korean Med Sci** 1996 Apr; 11(2):188–92

RADIOGRAPHY

Delayed enhancement of islet cell carcinoma on dynamic computed tomography: a sign of its malignancy. Koito K, et al. **Abdom Imaging** 1997 May-Jun;22(3):304–6

RADIONUCLIDE IMAGING

Early massive accumulation of In-111 pentetreotide in a metastatic liver tumor of islet cell carcinoma. Tsukamoto E, et al. **Ann Nucl Med** 1996 Aug;10(3):339–42

SECONDARY

Early massive accumulation of In-111 pentetreotide in a metastatic liver tumor of islet cell carcinoma. Tsukamoto E, et al. **Ann Nucl Med** 1996 Aug;10(3):339–42

Canine neuroendocrine tumors of the pancreas: a study using image analysis techniques for the discrimination of metastatic versus nonmetastatic tumors. Minkus G, et al. **Vet Pathol** 1997 Mar;34(2):138–45

SURGERY

Islet cell carcinoma of the pancreas. Lo CY, et al. **World J Surg** 1996 Sep;20(7):878–83; discussion 884

ULTRASONOGRAPHY

Contrast enhanced color Doppler ultrasonography in diagnosis of pancreatic tumor: two case reports. Ueno N, et al. **J Ultrasound Med** 1996 Jul;15(7):527–30

VETERINARY

Resolution of superficial necrolytic dermatitis following excision of a glucagon-secreting pancreatic neoplasm in a dog. Torres SM, et al. **J Am Anim Hosp Assoc** 1997 Jul-Aug;33(4):313–9

Canine neuroendocrine tumors of the pancreas: a study using image analysis techniques for the discrimination of metastatic versus nonmetastatic tumors. Minkus G, et al. **Vet Pathol** 1997 Mar;34(2):138–45

CARCINOMA, LARGE CELL

COMPLICATIONS

Bilateral lower limb oedema due to a distended urinary bladder. Tan HH, et al. **Singapore Med J** 1997 May; 38(5):221–2

DIAGNOSIS

Comparison of the sensitivity of sputum and brush cytology in the diagnosis of lung carcinomas. Sing A, et al. **Acta Cytol** 1997 Mar-Apr;41(2):399–408 (67 ref.)

[Leukemoid hypereosinophilia and false hypoglycemia as presentation form of large-cell carcinoma of the lung (letter)] Tomás Navarro J, et al. **Med Clin (Barc)** 1997 May 17;108(19):758 **(Spa)**

DRUG THERAPY

High-dose tamoxifen reverses drug resistance to cisplatin and etoposide in a patient with advanced large cell carcinoma of lung. Yeh KH, et al. **Anticancer Res** 1997 Mar-Apr; 17(2B):1341–3

[Ethanol injection therapy to the lung cancer] Masaki Y, et al. **Kyobu Geka** 1997 May;50(5):384–8 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Cigarette smoking and large cell carcinoma of the lung. Muscat JE, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):477–80

GENETICS

High levels of gene transduction in human lung tumors following intralesional injection of recombinant adenovirus. Cusack JC, et al. **Cancer Gene Ther** 1996 Jul-Aug; 3(4):245–9

Glutathione S-transferase M1 (GSTM1) and T1 (GSTT1) polymorphisms and lung cancer risk among Northwestern Mediterraneans. To-Figueras J, et al. **Carcinogenesis** 1997 Aug;18(8):1529–33

Neuroendocrine tumors of the lung. Pathology and molecular biology. Vuitch F, et al. **Chest Surg Clin N Am** 1997 Feb; 7(1):21–47 (79 ref.)

METABOLISM

Gene expression of granulocyte colony stimulating factor (G-CSF) in non-small cell lung cancer. Nakamura M, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):573–6

[Double primary lung cancers producing alpha-fetoprotein] Bessho T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2216–20 (11 ref.) (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Large cell carcinoma of the uterine cervix: a clinicopathologic study of 12 cases. Gilks CB, et al. **Am J Surg Pathol** 1997 Aug;21(8):905–14

Clinical-pathologic analysis of 40 patients with large cell neuroendocrine carcinoma of the lung. Dresler CM, et al. **Ann Thorac Surg** 1997 Jan;63(1):180–5

Apoptosis and mitosis as prognostic factors in pathologically staged N1 nonsmall cell lung cancer. Komaki R, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):601–5

Large cell carcinoma of the lung with unilateral hamartoma. Altiner M, et al. **Pathologica** 1996 Aug;88(4):311–2

[Cytohistological agreement of fine-needle transthoracic lung puncture-aspiration (FNTLPA) in malignant lesions] Hernández Borge J, et al. **Arch Bronconeumol** 1997 May; 33(5):225–9 (Eng. Abstr.) **(Spa)**

RADIONUCLIDE IMAGING

Use of 111In-DTPA-octreotide scintigraphy in the diagnosis of neuroendocrine and non-neuroendocrine tumors of the lung. Preliminary results. Oliaro A, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):313–5

SECONDARY

Left atrial metastasis of a large cell carcinoma of the lung in an asymptomatic patient: transesophageal echocardiographic evaluation. Capdeville M, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):492–4

Metastatic large cell lung cancer presenting with numb chin syndrome. Marinella MA. **Respir Med** 1997 Apr; 91(4):235–6

SURGERY

Left pneumonectomy for a second primary tumor after right

CARCINOMA, LARGE CELL

upper lobectomy for superior sulcus tumor. Terzi A, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):155–7

[A successful removal of T4 lung cancer with its left atrial extension using cardiopulmonary bypass] Yamamoto M, et al. **Kyobu Geka** 1997 Feb;50(2):110–3 (Eng. Abstr.) **(Jpn)**

THERAPY

Treatment of 37 patients with anaplastic carcinoma of the thyroid. Kobayashi T, et al. **Head Neck** 1996 Jan–Feb; 18(1):36–41

Treatment of cervical lymph node metastasis from an unknown primary tumor, with a review of the literature. van der Planken HJ, et al. **Strahlenther Onkol** 1997 Mar; 173(3):163–9

CARCINOMA, LEWIS LUNG

BLOOD SUPPLY

Leukocyte adhesion in angiogenic blood vessels. Role of E-selectin, P-selectin, and beta2 integrin in lymphotoxin-mediated leukocyte recruitment in tumor microvessels. Borgström P, et al. **J Clin Invest** 1997 May 1;99(9):2246–53

CHEMISTRY

Influence of lipid diets on the number of metastases and ganglioside content of H59 variant tumors. Coulombe J, et al. **Clin Exp Metastasis** 1997 Jul;15(4):410–7

COMPLICATIONS

Improvement by eicosanoids in cancer cachexia induced by LLC-IL6 transplantation. Ohira T, et al. **J Cancer Res Clin Oncol** 1996;122(12):711–5

DRUG THERAPY

Antitumor activity of S 16020-2 in two orthotopic models of lung cancer. Guilbaud N, et al. **Anticancer Drugs** 1997 Mar;8(3):276–82

In vitro and in vivo cytotoxic effects of nitric oxide on metastatic cells. Hirano S. **Cancer Lett** 1997 May 1; 115(1):57–62

Suppression of metastatic potential of high-metastatic Lewis lung carcinoma cells by vanadate, an inhibitor of tyrosine phosphatase, through inhibiting cell–substrate adhesion. Takenaga K. **Invasion Metastasis** 1996;16(2):97–106

Preclinical studies of the combination of angiogenic inhibitors with cytotoxic agents. Kakeji Y, et al. **Invest New Drugs** 1997;15(1):39–48

Effect of the cytostatic butyric acid pro-drug, pivaloyloxymethyl butyrate, on the tumorigenicity of cancer cells. Aviram A, et al. **J Cancer Res Clin Oncol** 1997;123(5):267–71

Effects of thiorphan, bestatin and captopril on the Lewis lung carcinoma metastases in mice. Kowalski J, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):423–7

[Modulation of the antitumor effect of cyclophosphamide by the recombinant probiotic Subalin] Cherdyntseva NV, et al. **Vopr Onkol** 1997;43(3):313–6 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Inhibition of tumor invasiveness by 1alpha,25-dihydroxyvitamin D3 coupled to a decline in protein kinase A activity and an increase in cytoskeletal organization. Young MR, et al. **Clin Exp Metastasis** 1997 Mar;15(2):102–10

A carbamate analogue of amsacrine with activity against non-cycling cells stimulates topoisomerase II cleavage at DNA sites distinct from those of amsacrine. Baguley BC, et al. **Eur J Cancer** 1997 Feb;33(2):272–9

GENETICS

Beta 4 integrin subunit expression is downregulated in low metastatic carcinoma variants. Cimino L, et al. **Cancer Detect Prev** 1997;21(2):158–66

Expression of antisense RNA to S100A4 gene encoding an S100-related calcium-binding protein suppresses metastatic potential of high-metastatic Lewis lung carcinoma cells. Takenaga K, et al. **Oncogene** 1997 Jan 23;14(3):331–7

IMMUNOLOGY

Polyamine deprivation prevents the development of tumour-induced immune suppression. Chamaillard L, et al. **Br J Cancer** 1997;76(3):365–70

1alpha,25-dihydroxyvitamin D3 activates T cells of tumor bearers through protein phosphatase 2A. Wiers KM, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):97–102

Flow cytometric analysis of in vivo polyamine deprivation in Lewis lung carcinoma (3LL) cells using the monoclonal antibody SPM8-2. Delcros JG, et al. **Cytometry** 1997 Mar 1;27(3):255–61

[The effect of local hyperthermia on NK activity and lung metastasis in mice] Hu Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):582–4 (Eng. Abstr.) **(Chi)**

METABOLISM

Accumulation of hydroxyspermidine in red blood cells, a potential index of tumor proliferation rate. Leveque J, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3745–7

Tumour growth modifies intravascular polyamine transport by plasma lipoproteins in the mouse. Catros-Quemener V, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):30–7

Intratumor distribution of doxorubicin following i.v. administration of drug encapsulated in egg phosphatidylcholine/cholesterol liposomes. Harasym TO, et al. **Cancer Chemother Pharmacol** 1997;40(4):309–17

Macrophage-derived metalloelastase is responsible for the generation of angiostatin in Lewis lung carcinoma. Dong Z, et al. **Cell** 1997 Mar 21;88(6):801–10

Flow cytometric analysis of in vivo polyamine deprivation in Lewis lung carcinoma (3LL) cells using the monoclonal antibody SPM8-2. Delcros JG, et al. **Cytometry** 1997 Mar 1;27(3):255–61

Accumulation of liposomal lipid and encapsulated doxorubicin in murine Lewis lung carcinoma: the lack of beneficial effects by coating liposomes with poly(ethylene glycol). Parr MJ, et al. **J Pharmacol Exp Ther** 1997 Mar; 280(3):1319–27

MICROBIOLOGY

Effect of Escherichia coli L-form cytoplasmic membranes on the interaction between macrophages and Lewis lung carcinoma cells: scanning electron microscopy. Ivanova EH, et al. **FEMS Immunol Med Microbiol** 1997 Jan; 17(1):27–36

PATHOLOGY

Tumour growth modifies intravascular polyamine transport by plasma lipoproteins in the mouse. Catros-Quemener V, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):30–7

Sequential observation of micrometastasis formation by bacterial lacZ gene-tagged Lewis lung carcinoma cells. Kobayashi K, et al. **Cancer Lett** 1997 Jan 30;112(2):191–8

Influence of lipid diets on the number of metastases and ganglioside content of H59 variant tumors. Coulombe J, et al. **Clin Exp Metastasis** 1997 Jul;15(4):410–7

Lewis lung carcinoma and two transplantable sarcomas in mice as experimental therapy models: biological characteristics and cell population kinetics. Gasińska A, et al. **Folia Histochem Cytobiol** 1997;35(3):165–73

RADIOTHERAPY

Lewis lung carcinoma and two transplantable sarcomas in mice as experimental therapy models: biological characteristics and cell population kinetics. Gasińska A, et al. **Folia Histochem Cytobiol** 1997;35(3):165–73

SECONDARY

Blockers of adrenergic neurons and receptors, tumor progression and effects of rotational stress in mice. Perissin L, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3409–13

Sequential observation of micrometastasis formation by bacterial lacZ gene-tagged Lewis lung carcinoma cells. Kobayashi K, et al. **Cancer Lett** 1997 Jan 30;112(2):191–8

Inhibition of carcinoma cell invasion and liver metastases formation by the cysteine proteinase inhibitor E-64. Navab R, et al. **Clin Exp Metastasis** 1997 Mar;15(2):121–9

Inhibition of tumor invasiveness by 1alpha,25-dihydroxyvitamin D3 coupled to a decline in protein kinase A activity and an increase in cytoskeletal organization. Young MR, et al. **Clin Exp Metastasis** 1997 Mar;15(2):102–10

Liver endothelial E-selectin mediates carcinoma cell adhesion and promotes liver metastasis. Brodt P, et al. **Int J Cancer** 1997 May 16;71(4):612–9

Inhibition of murine Lewis lung carcinoma metastases by combined chemotherapy and intranasal THF-gamma 2 immunotherapy. Rashid G, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):324–33

Expression of antisense RNA to S100A4 gene encoding an S100-related calcium-binding protein suppresses metastatic potential of high-metastatic Lewis lung carcinoma cells. Takenaga K, et al. **Oncogene** 1997 Jan 23;14(3):331–7

THERAPY

Adoptive transfer of anti-CD3-activated CD4+ T cells plus cyclophosphamide and liposome-encapsulated interleukin-2 cure murine MC-38 and 3LL tumors and establish tumor-specific immunity. Saxton ML, et al. **Blood** 1997 Apr 1;89(7):2529–36

Genetic immunotherapy of established tumors with adenovirus-murine granulocyte-macrophage colony-stimulating factor. Lee CT, et al. **Hum Gene Ther** 1997 Jan 20;8(2):187–93

The anti-tumoral activity of human glycoprotein HGP.92: a study with the mouse Lewis-lung-tumor cell. Fontan E, et al. **Int J Cancer** 1997 Feb 7;70(4):416–22

Inhibition of murine Lewis lung carcinoma metastases by combined chemotherapy and intranasal THF-gamma 2 immunotherapy. Rashid G, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):324–33

Modulation of specific active immunization against murine melanoma using recombinant cytokines. Stidham KR, et al. **Surg Oncol** 1996 Oct–Dec;5(5–6):221–9

[The effect of local hyperthermia on NK activity and lung metastasis in mice] Hu Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):582–4 (Eng. Abstr.) **(Chi)**

CARCINOMA, LOBULAR

BLOOD

The serum tumor marker M3/M21 in the follow-up of breast cancer patients. Tempfer C, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3049–52

BLOOD SUPPLY

Tumour angiogenesis as a prognostic marker in infiltrating lobular carcinoma of the breast [see comments] Morphopoulos G, et al. **J Pathol** 1996 Sep;180(1):44–9. Comment in: J Pathol 1996 Sep;180(1):6–7.

CHEMICALLY INDUCED

Lobular carcinoma of the male breast associated with the use of cimetidine. San Miguel P, et al. **Virchows Arch** 1997 Mar;430(3):261–3 (26 ref.)

CHEMISTRY

The prognostic significance of epidermal growth factor receptor (EGFR), C-erbB-2, Ki-67 and PCNA expression in breast cancer. Ioachim E, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3141–7

Expression of E-cadherin and catenins in invasive mammary carcinomas. Zschiesche W, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):561–7

Preliminary findings on the expression of thymosin beta-10 in human breast cancer. Verghese-Nikolakaki S, et al. **Br J Cancer** 1996 Nov;74(9):1441–4

Comparison of quantitative and semiquantitative methods of assessing MIB-1 with the S-phase fraction in breast carcinoma. MacGrogan G, et al. **Mod Pathol** 1997 Aug; 10(8):769–76

COMPLICATIONS

[Rapidly progressive ascites (clinical conference)] Hadengue A, et al. **Schweiz Med Wochenschr** 1996 Nov 2; 126(44):1891–7 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Breast cancer diagnosis by fine needle aspiration and excisional biopsy. Recurrence and survival. Taxin A, et al. **Acta Cytol** 1997 Mar–Apr;41(2):302–6

MR imaging in the management before surgery of lobular carcinoma of the breast: correlation with pathology. Rodenko GN, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1415–9

Cytologic nuclear grading of fine needle cytopunctures of breast carcinoma. Comparison with histologic nuclear grading and image cytometric data. Briffod M, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):114–22

Breast carcinoma detection with a combination of radiolabeled monoclonal antibodies. Promising results from immunohistochemistry studies. Mangili F, et al. **Cancer** 1996 Dec 1;78(11):2334–9

Carcinoma in situ involving sclerosing adenosis [letter; comment] Fechner RE. **Histopathology** 1996 Jun;28(6):570 . Comment on: Histopathology 1995 Sep;27(3):269–73.

Prognostic value of DNA ploidy in breast cancer stage I–II. Cufer T, et al. **Neoplasma** 1997;44(2):127–32

Pregnancy and offspring after the appearance of breast cancer. Malamos NA, et al. **Oncology** 1996 Nov–Dec; 53(6):471–5

Male inflammatory breast cancer. Yamamoto T, et al. **Surg Today** 1997;27(7):669–71

[Magnetic resonance mammography—open questions] Kessler M, et al. **Geburtshilfe Frauenheilkd** 1996 Aug; 56(8):M107–15 **(Ger)**

DRUG THERAPY

A durable response to cytarabine in advanced breast cancer. Czaykowski PM, et al. **Clin Oncol (R Coll Radiol)** 1997; 9(3):181–3

ENZYMOLOGY

Telomerase expression in human breast cancer with and without lymph node metastases. Nawaz S, et al. **Am J Clin Pathol** 1997 May;107(5):542–7

Occult deposition of eosinophil peroxidase in a subset of human breast carcinomas. Samoszuk MK, et al. **Am J Pathol** 1996 Mar;148(3):701–6

Correlation of two methods for determination of cathepsin D in breast carcinoma (immunohistochemistry and ELISA in cytosol). Razumović JJ, et al. **Breast Cancer Res Treat** 1997 Apr;43(2):117–22

EPIDEMIOLOGY

Risk of contralateral breast cancer among women with carcinoma in situ of the breast. Habel LA, et al. **Ann Surg** 1997 Jan;225(1):69–75

Risk of breast cancer associated with atypical hyperplasia of lobular and ductal types. Marshall LM, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):297–301

Trends of in situ carcinoma of the breast in Vaud,

Switzerland. Levi F, et al. **Eur J Cancer** 1997 May; 33(6):903–6

GENETICS

Expression of the CD44 variant isoforms 6 and 4/5 in breast cancer. Correlation with established prognostic parameters. Regidor PA, et al. **Arch Gynecol Obstet** 1996;258(3):125–35

Loss of heterozygosity at chromosome 6q in preinvasive and early invasive breast carcinomas. Chappell SA, et al. **Br J Cancer** 1997;75(9):1324–9

High incidence of interleukin 10 mRNA but not interleukin 2 mRNA detected in human breast tumours. Venetsanakos E, et al. **Br J Cancer** 1997;75(12):1826–30

Loss of heterozygosity on chromosome 11q13 in lobular lesions of the breast using tissue microdissection and polymerase chain reaction. Nayar R, et al. **Hum Pathol** 1997 Mar;28(3):277–82

METABOLISM

p53 protein expression, cell proliferation and steroid hormone receptors in ductal and lobular in situ carcinomas of the breast. Rudas M, et al. **Eur J Cancer** 1997 Jan;33(1):39–44

Immunohistochemical assay for oestrogen receptors in paraffin wax sections of breast carcinoma using a new monoclonal antibody. Huang A, et al. **J Pathol** 1996 Oct; 180(2):223–7

[Breast cancer: comparison between biochemical and immunohistochemical determination of estrogen receptors] Roa JC, et al. **Rev Med Chil** 1996 Mar;124(3):307–12 (Eng. Abstr.) **(Spa)**

PATHOLOGY

MIB–1 (Ki–67) immunostaining of breast cancer cells in cytologic smears. Dalquen P, et al. **Acta Cytol** 1997 Mar–Apr;41(2):229–37 (44 ref.)

Fine needle aspiration of breast masses. An analysis of 1,398 patients in a community hospital. Domínguez F, et al. **Acta Cytol** 1997 Mar–Apr;41(2):341–7

Breast cytology. Statistical analysis and cytohistologic correlations. Feichter GE, et al. **Acta Cytol** 1997 Mar–Apr; 41(2):327–32

Cytologic features of ductal and lobular carcinoma in fine needle aspirates of the breast. Greeley CF, et al. **Acta Cytol** 1997 Mar–Apr;41(2):333–40

A comparative study of pure tubular and tubulolobular carcinoma of the breast. Green I, et al. **Am J Surg Pathol** 1997 Jun;21(6):653–7

Bilaterality and recurrence rates for lobular breast cancer: considerations for treatment. Yeatman TJ, et al. **Ann Surg Oncol** 1997 Apr–May;4(3):198–202

Nucleolar volume in breast carcinomas. Mihailovic D, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3919–21

Histopathology of breast cancer in relation to age. Fisher CJ, et al. **Br J Cancer** 1997;75(4):593–6

Fine–needle aspiration cytology of pleomorphic lobular carcinoma of the breast. Comparison with the classic type [see comments] Auger M, et al. **Cancer** 1997 Feb 25; 81(1):29–32. Comment in: Cancer 1997 Feb 25;81(1):1–2.

Pathologic findings from the National Surgical Adjuvant Breast Project (NSABP) Protocol B–17. Five–year observations concerning lobular carcinoma in situ. Fisher ER, et al. **Cancer** 1996 Oct 1;78(7):1403–16

Age–stratified incidence of unsuspected mammary carcinoma in women with fibroadenoma. Ricci A Jr, et al. **Conn Med** 1996 Oct;60(10):587–90

Fine–needle aspiration of well differentiated small–cell duct carcinoma of the breast. Fiorella RM, et al. **Diagn Cytopathol** 1997 Mar;16(3):226–9

Diagnostic significance of signet ring cells in fine–needle aspirates of the breast. Sethi S, et al. **Diagn Cytopathol** 1997 Feb;16(2):117–21

Lymphocytic lobulitis and carcinoma of the breast [letter; comment] Lee AH, et al. **Histopathology** 1996 Jan; 28(1):94–5. Comment on: Histopathology 1995 Jun;26(6):579–80.

Breast cancer metastatic to uterine leiomyoma: a case report. Sugiyama T, et al. **J Obstet Gynaecol** 1995 Aug; 21(4):349–55 (21 ref.)

DNA analysis and S–phase fraction determination by flow cytometric analysis of infiltrating lobular carcinoma of the breast. Frost AR, et al. **Mod Pathol** 1996 Sep;9(9):930–7

Bilateral breast tumors, malignant phyllodes tumor and invasive lobular carcinoma in a 46,XX/46,XY mosaic female with family history of breast cancer. Kasami M, et al. **Pathol Int** 1997 Feb–Mar;47(2–3):147–54

[Pelvic metastases revealing infiltrating lobular carcinoma of the breast (letter)] Julié C, et al. **Ann Pathol** 1997 Mar; 17(1):73–4 **(Fre)**

[Subtyping and prognostic assessment of invasive lobular breast carcinoma] Sinn HP, et al. **Pathologe** 1997 Jan; 18(1):37–44 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Scintimammography with technetium–99m tetrofosmin in suspected breast cancer. Schillaci O, et al. **Anticancer Res** 1997 May–Jun;17(3B):1623–6

RADIOTHERAPY

Lumpectomy and radiation treatment for invasive lobular carcinoma of the breast. Warneke J, et al. **Am J Surg** 1996 Nov;172(5):496–500

[Angiosarcoma of the breast after conservatively operated breast carcinoma––a sequela of adjuvant radiotherapy?] Aydogdu M, et al. **Geburtshilfe Frauenheilkd** 1996 Jan; 56(1):60–2 (Eng. Abstr.) **(Ger)**

SECONDARY

Abdominal metastases of infiltrating lobular breast carcinoma: CT and fluoroscopic imaging findings. Kidney DD, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):156–9

Metastatic lobular carcinoma of the breast diagnosed in cervicovaginal samples. A case report. Mallow DW, et al. **Acta Cytol** 1997 Mar–Apr;41(2):549–55

Metastatic lobular carcinoma of the breast in a cervical–vaginal smear [letter] Vadmal M, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1236–7

Development of syndrome of inappropriate secretion of antidiuretic hormone during progression of metastatic breast cancer. Andersen MK, et al. **Acta Oncol** 1997; 36(5):535–7

Differential sensitivity of estrogen/progesterone receptors and BRST–2 markers in metastatic ductal and lobular breast carcinoma to the skin. Wallace ML, et al. **Am J Dermatopathol** 1996 Jun;18(3):241–7

Bone marrow granulomas in infiltrating lobular breast cancer. Kettle P, et al. **J Clin Pathol** 1997 Feb;50(2):166–8

Coronary embolization in a woman with advanced breast cancer [letter] Watzinger N, et al. **N Engl J Med** 1997 Apr 10;336(15):1104–5

Metastatic breast carcinoma presenting as urinoma. Zunarelli E, et al. **Pathologica** 1995 Dec;87(6):712–4 (8 ref.)

SURGERY

Lumpectomy and radiation treatment for invasive lobular carcinoma of the breast. Warneke J, et al. **Am J Surg** 1996 Nov;172(5):496–500

Risk associated with unexpected lobular carcinoma in situ [letter] Shiffman MA. **Ann Surg Oncol** 1996 Nov;3(6):590–1

Axillary dissection can be avoided in selected breast cancer patients: analysis of 401 cases. Greco M, et al. **Anticancer Res** 1996 Nov–Dec;16(6C):3913–7

Conservative surgery for infiltrating lobular breast carcinoma. Salvadori B, et al. **Br J Surg** 1997 Jan; 84(1):106–9

Menstrual phase and breast cancer surgery: influence on clinical outcome or pitfall of statistical analysis? Tempfer C, et al. **Cancer Lett** 1996 Dec 20;110(1–2):145–8

Therapeutic options and results for the management of minimally invasive carcinoma of the breast: influence of axillary dissection for treatment of T1a and T1b lesions [see comments] White RE, et al. **J Am Coll Surg** 1996 Dec; 183(6):575–82. Comment in: J Am Coll Surg 1997 Jun;184(6):671–3.

Lobular carcinoma in situ of the breast. Goldschmidt RA, et al. **Semin Surg Oncol** 1996 Sep–Oct;12(5):314–20 (39 ref.)

[Standardized pathologic examination of breast excision specimen. Relevance within an interdisciplinary practice protocol for quality management of breast saving therapy] Decl.er T, et al. **Patholoqe** 1997 Jan;18(1):53–9 (Eng. Abstr.) **(Ger)**

[Natural history of breast cancer: lobular carcinoma versus ductal carcinoma in our experience] Casolo P, et al. **Ann Ital Chir** 1997 Jan–Feb;68(1):43–7; discussion 48 (Eng. Abstr.) **(Ita)**

THERAPY

Management of lobular carcinoma in situ and ductal carcinoma in situ of the breast. Wood WC. **Semin Oncol** 1996 Aug;23(4):446–52 (50 ref.)

[Combined breast–preserving surgery, chemotherapy and radiotherapy in the treatment of breast carcinoma. Effect of the interval between surgery and the beginning of radiotherapy (published erratum appears in Strahlenther Onkol 1997 Apr;173(4):245)] Willers H, et al. **Strahlenther Onkol** 1997 Mar;173(3):148–54 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Optimized differential diagnosis of breast lesions by combined B–mode and color Doppler sonography [see comments] Schelling M, et al. **Ultrasound Obstet Gynecol** 1997 Jul; 10(1):48–53. Comment in: Ultrasound Obstet Gynecol 1997 Jul;10(1):5–8. Comment in: Ultrasound Obstet Gynecol 1997 Jul;10(1):9–11.

[Potentialities of ultrasound examination in differential diagnosis of benign nodules and breast cancer] Vetshev PS, et al. **Khirurgiia (Mosk)** 1997;(6):15–20 (Eng. Abstr.) **(Rus)**

CARCINOMA, MEDULLARY

see related
MULTIPLE ENDOCRINE NEOPLASIA TYPE 2A
MULTIPLE ENDOCRINE NEOPLASIA TYPE 2B

Advances and controversies in the diagnosis and management of medullary thyroid carcinoma. Heshmati HM, et al. **Am J Med** 1997 Jul;103(1):60–9 (75 ref.)

BLOOD

Heterogeneity of circulating calcitonin levels: relations with calcitonin biosynthesis in medullary thyroid carcinomas. Guliana JM, et al. **Nucl Med Biol** 1994 Apr;21(3):359–68 (40 ref.)

BLOOD SUPPLY

Microvessel count: an indicator of poor outcome in medullary thyroid carcinoma but not in other types of thyroid carcinoma. Fontanini G, et al. **Mod Pathol** 1996 Jun;9(6):636–41

CHEMISTRY

Molecular analysis of the RET proto–oncogene in patients with sporadic medullary thyroid carcinoma: a novel point mutation in the extracellular cysteine–rich domain. Bugalho MJ, et al. **Eur J Endocrinol** 1997 Apr;136(4):423–6

Immunocytochemical localization of hormones and functional proteins in cultured cells of thyroid medullary carcinoma. Seidel J, et al. **Folia Histochem Cytobiol** 1996; 34 Suppl 1:67–8

Immunocytochemical characterization of two thyroid medullary carcinoma cell lines in vitro. Zabel M, et al. **Histochem J** 1995 Nov;27(11):859–68

Medullary breast carcinoma vs. poorly differentiated ductal carcinoma: an immunohistochemical study with keratin 19 and oestrogen receptor staining. Jensen ML, et al. **Histopathology** 1996 Sep;29(3):241–5

Regulatory peptides and other neuroendocrine markers in medullary carcinoma of the thyroid. Hanna FW, et al. **J Endocrinol** 1997 Feb;152(2):275–81

Sex–steroid hormone receptors in human medullary thyroid carcinoma. Colomer A, et al. **Mod Pathol** 1996 Jan; 9(1):68–72

Mixed medullary–follicular carcinoma of the thyroid. A morphological, immunohistochemical and in situ hybridization analysis of 11 cases. Papotti M, et al. **Virchows Arch** 1997 May;430(5):397–405

[Tumor markers in medullary thyroid carcinoma. Biochemical and immunohistochemical study (letter)] López–Guzmán A, et al. **An Med Interna** 1996 Jul; 13(7):358–9 **(Spa)**

COMPLICATIONS

Interest of routine measurement of serum calcitonin: study in a large series of thyroidectomized patients. The French Medullary Study Group [see comments] Niccoli P, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):338–41. Comment in: J Clin Endocrinol Metab 1997 Feb;82(2):335–7. Comment in: J Clin Endocrinol Metab 1997 Aug;82(3):2755.

Sporadic medullary thyroid carcinoma associated with toxic multinodular goitre. Small PK, et al. **J R Coll Surg Edinb** 1997 Jun;42(3):199–200

Renal medullary carcinoma and sickle cell trait. Friedrichs P, et al. **J Urol** 1997 Apr;157(4):1349

[Syndrome of multiple neoplasia type IIB (MEN IIB): a case report] Alpera Lacruz R, et al. **An Esp Pediatr** 1996 Oct; 45(4):421–4 **(Spa)**

DIAGNOSIS

Renal medulla carcinoma in a white adolescent. Kalyanpur A, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1037–8

Medullary carcinoma of the thyroid misdiagnosed as differentiated thyroid carcinoma. Moody AM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):261–3

Diagnosis of multiple endocrine neoplasia [MEN] 2A, 2B and familial medullary thyroid cancer [FMTC] by multiplex PCR and heteroduplex analyses of RET proto–oncogene mutations. Kambouris M, et al. **Hum Mutat** 1996;8(1):64–70

Omeprazole: calcitonin stimulation test for the diagnosis follow–up and family screening in medullary thyroid carcinoma. Erdoğan MF, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):897–9

Interest of routine measurement of serum calcitonin: study in a large series of thyroidectomized patients. The French Medullary Study Group [see comments] Niccoli P, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):338–41. Comment in: J Clin Endocrinol Metab 1997 Feb;82(2):335–7. Comment in: J Clin Endocrinol Metab 1997 Aug;82(3):2755.

Thoracic and abdominal SPECT–CT image fusion without external markers in endocrine carcinomas. The Group of Thyroid Tumoral Pathology of Champagne–Ardenne. Pérault C, et al. **J Nucl Med** 1997 Aug;38(8):1234–42

Renal medullary carcinoma: a recently described highly aggressive renal tumor in young black patients. Herring JC, et al. **J Urol** 1997 Jun;157(6):2246–7 (2 ref.)

Carcino–embryonic antigen––no help with the differential diagnosis. Cobben–Beld EG, et al. **Neth J Med** 1996 Mar; 48(3):96–9

Thyroid cancers. II. Medullary, anaplastic, lymphoma, sarcoma, squamous cell. Austin JR, et al. **Otolaryngol Clin North Am** 1996 Aug;29(4):611–27 (86 ref.)

Cystic medullary thyroid cancer [letter; comment] Liberatore E, et al. **Surgery** 1996 Nov;120(5):903. Comment on: Surgery 1995 Mar;117(3):356–7.

[Early diagnosis of sporadic medullary cancers of the thyroid: value of systematic assay of calcitonin] Henry JF, et al. **Presse Med** 1996 Nov 2;25(33):1583–8 (Eng. Abstr.) **(Fre)**

[Clinical aspects and preoperative diagnosis in differentiated thyroid gland carcinoma] Mann K, et al. **Zentralbl Chir** 1997;122(4):246–51 (41 ref.) (Eng. Abstr.) **(Ger)**

[Hyperthyroidism and carcinoma of the thyroid gland] Ardito G, et al. **Ann Ital Chir** 1997 Jan–Feb;68(1):23–7; discussion 27–8 (Eng. Abstr.) **(Ita)**

[Medullary carcinoma of the thyroid. A report of 4 clinical cases and a review of the literature] Russo F, et al. **Minerva Chir** 1997 Apr;52(4):475–84 (40 ref.) (Eng. Abstr.) **(Ita)**

[Multiple endocrine neoplasia type 2A. Report of a case with an unusually aggressive outcome] Campusano C, et al. **Rev Med Chil** 1996 Sep;124(9):1100–6 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

The effect of steroids and their complexes with cyclodextrins on secretory activity of cultured thyroid medullary carcinoma cells. Grzeszkowiak J, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:69–70

[Modulation of cisplatin cytotoxicity by amphotericin B in six human cell lines of medullary thyroid cancer] Massart C, et al. **Bull Cancer** 1996 Aug;83(8):619–25 (50 ref.) (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Telomerase expression in human breast cancer with and without lymph node metastases. Nawaz S, et al. **Am J Clin Pathol** 1997 May;107(5):542–7

EPIDEMIOLOGY

A nationwide clinical survey of patients with multiple endocrine neoplasia type 2 and familial medullary thyroid carcinoma in Japan. Iihara M, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):128–34

Medullary thyroid cancer: analyses of survival and prognostic factors and the role of radiation therapy in local control. Brierley J, et al. **Thyroid** 1996 Aug;6(4):305–10

GENETICS

The MEN II syndromes and the role of the ret proto-oncogene. Ponder BA, et al. **Adv Cancer Res** 1996; 70:179–222 (194 ref.)

Prevalence and parental origin of de novo RET mutations in multiple endocrine neoplasia type 2A and familial medullary thyroid carcinoma. Le Groupe d'Etude des Tumeurs a Calcitonine [letter] Schuffenecker I, et al. **Am J Hum Genet** 1997 Jan;60(1):233–7

Familial medullary thyroid carcinoma: not a distinct entity? Genotype–phenotype correlation in a large family. Moers AM, et al. **Am J Med** 1996 Dec;101(6):635–41

Genetic testing and early thyroidectomy for inherited medullary thyroid carcinoma. Lairmore TC, et al. **Ann Med** 1996 Oct;28(5):401–6 (39 ref.)

A novel deletion in the RET proto-oncogene found in sporadic medullary thyroid carcinoma. Alemi M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2619–22

Genetic testing for familial cancer. Consequences of RET proto-oncogene mutation analysis in multiple endocrine neoplasia, type 2. Learoyd DL, et al. **Arch Surg** 1997 Sep; 132(9):1022–5

Biological properties of Ret with cysteine mutations correlate with multiple endocrine neoplasia type 2A, familial medullary thyroid carcinoma, and Hirschsprung's disease phenotype. Ito S, et al. **Cancer Res** 1997 Jul 15; 57(14):2870–2

Multiple endocrine neoplasia type II and familial medullary thyroid carcinoma. Impact of genetic screening on management. Gagel RF. **Cancer Treat Res** 1997;89:421–41 (74 ref.)

Does phaster mean better? [editorial; comment] Angrist M. **Clin Chem** 1997 Mar;43(3):424–6. Comment on: Clin Chem 1997 Mar;43(3):453–7.

Rapid, nonradioactive screening for mutations in exons 10, 11, and 16 of the RET protooncogene associated with inherited medullary thyroid carcinoma [see comments] Siegelman M, et al. **Clin Chem** 1997 Mar;43(3):453–7. Comment in: Clin Chem 1997 Mar;43(3):424–6.

Mutation of RET codon 768 is associated with the FMTC phenotype. Boccia LM, et al. **Clin Genet** 1997 Feb; 51(2):81–5

Application of genetic screening information to the management of medullary thyroid carcinoma and multiple endocrine neoplasia type 2. Wohllk N, et al. **Endocrinol Metab Clin North Am** 1996 Mar;25(1):1–25 (101 ref.)

Application of genetic screening in families with hereditary medullary thyroid carcinoma. Frank-Raue K, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:108–10

Absence of TP53 alterations in pheochromocytomas and medullary thyroid carcinomas. Herfarth KK, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):24–9

RET proto-oncogene mutations in multiple endocrine neoplasia type 2 and medullary thyroid carcinoma. Marsh DJ, et al. **Horm Res** 1997;47(4–6):168–78 (105 ref.)

Identification of a novel somatic mutation in the RET proto-oncogene in a patient with sporadic medullary thyroid carcinoma. Matias-Guiu X, et al. **Hum Mutat** 1997; 9(5):476

Cys 618 Arg mutation in the RET proto-oncogene associated with familial medullary thyroid carcinoma and maternally transmitted Hirschsprung's disease suggesting a role for imprinting. Peretz H, et al. **Hum Mutat** 1997;10(2):155–9

Relevance of RET proto-oncogene mutations in sporadic medullary thyroid carcinoma. Wohllk N, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3740–5

The genetic aspects of medullary thyroid carcinoma: recognition and management. Williamson P, et al. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):443–7

Differential display in primary and metastatic medullary thyroid carcinoma. Musholt TJ, et al. **J Surg Res** 1997 Apr; 69(1):94–100

A novel somatic mutation in the RET proto-oncogene in familial medullary thyroid carcinoma with a germline codon 768 mutation. Miyauchi A, et al. **Jpn J Cancer Res** 1997 Jun;88(6):527–31

Genetic testing in medullary thyroid carcinoma syndromes: mutation types and clinical significance. Heshmati HM, et al. **Mayo Clin Proc** 1997 May;72(5):430–6

A complex nine base pair deletion in RET exon 11 common in sporadic medullary thyroid carcinoma. Alemi M, et al. **Oncogene** 1997 May 1;14(17):2041–5

Novel germline RET proto-oncogene mutations associated with medullary thyroid carcinoma (MTC): mutation analysis in Japanese patients with MTC. Kitamura Y, et al. **Oncogene** 1997 Jun 26;14(25):3103–6

Oncogenic activation of RET by two distinct FMTC mutations affecting the tyrosine kinase domain. Pasini A, et al. **Oncogene** 1997 Jul 24;15(4):393–402

Development of medullary thyroid carcinoma in transgenic mice expressing the RET protooncogene altered by a multiple endocrine neoplasia type 2A mutation. Michiels FM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1; 94(7):3330–5

Medullary carcinoma of the thyroid gland and the MEN 2 syndromes. Skinner MA, et al. **Semin Pediatr Surg** 1997 Aug;6(3):134–40 (35 ref.)

A frequent mutation/polymorphism in tumor suppressor gene INK4B (MTS-2) in papillary and medullary thyroid cancer. Goretzki PE, et al. **Surgery** 1996 Dec;120(6):1081–8

"Cold" single-strand conformational variants for mutation analysis of the RET protooncogene. Musholt PB, et al. **Surgery** 1997 Aug;122(2):363–70; discussion 370–1

The RET proto-oncogene in medullary and papillary thyroid carcinoma. Molecular features, pathophysiology and clinical implications. Komminoth P. **Virchows Arch** 1997 Jul;431(1):1–9 (109 ref.)

[Ret proto-oncogene mutation found in the Czech population and its predictive value for offspring of patients with medullary carcinoma of the thyroid gland] Mazura I, et al. **Vnitr Lek** 1996 Nov;42(11):751–6 (Eng. Abstr.) **(Cze)**

[Mutations of ret-proto-oncogene in thyroid medullary carcinoma] Frank-Raue K, et al. **Dtsch Med Wochenschr** 1997 Feb 7;122(6):143–9 (Eng. Abstr.) **(Ger)**

[Preventive thyroidectomy in hereditary medullary thyroid gland carcinoma] Görtz G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:199–201 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

An immunohistochemical study of leu 7 and PCNA expression in thyroid neoplasms. Fucich LF, et al. **Biotech Histochem** 1996 Nov;71(6):298–303

Immune response against medullary thyroid carcinoma (MTC) induced by parental and/or interleukin-2-secreting MTC cells in a rat model of human familial medullary thyroid carcinoma. Lausson S, et al. **Cancer Immunol Immunother** 1996 Oct;43(2):116–23

METABOLISM

p21(Waf1/Cip1) and p53 protein expression in breast cancer. Wakasugi E, et al. **Am J Clin Pathol** 1997 Jun;107(6):684–91

Effects of glucagon and glucagon-like peptide-1-(7–36) amide on C cells from rat thyroid and medullary thyroid carcinoma CA–77 cell line. Crespel A, et al. **Endocrinology** 1996 Sep;137(9):3674–80

Expression of a calcium-sensing receptor in a human medullary thyroid carcinoma cell line and its contribution to calcitonin secretion. Freichel M, et al. **Endocrinology** 1996 Sep;137(9):3842–8

Matrix metalloproteinases and tissue inhibitors of metalloproteinases in thyroid C-cells and medullary thyroid carcinomas. Tomita T. **Histopathology** 1997 Aug; 31(2):150–6

Expression of the RET proto-oncogene in normal human tissues, pheochromocytomas, and other tumors of neural crest origin. Takaya K, et al. **J Mol Med** 1996 Oct; 74(10):617–21

Somatostatin and somatostatin analogues in medullary thyroid carcinoma. O'Byrne KJ, et al. **Nucl Med Commun** 1996 Sep;17(9):810–6

Expression of the calcitonin gene family in medullary thyroid carcinoma. Schifter S. **Peptides** 1997;18(2):307–17 (151 ref.)

MIB-1 expression in breast carcinomas with medullary features. An immunohistological study including correlations with p53 and bcl-2. Jensen V, et al. **Virchows Arch** 1997 Aug;431(2):125–30

[Breast cancer: comparison between biochemical and immunohistochemical determination of estrogen receptors] Roa JC, et al. **Rev Med Chil** 1996 Mar;124(3):307–12 (Eng. Abstr.) **(Spa)**

MORTALITY

Long-term follow-up of patients with medullary carcinoma of the thyroid. Bergholm U, et al. **Cancer** 1997 Jan 1; 79(1):132–8

Multivariate analysis of prognostic factors in sporadic medullary carcinoma of the thyroid. A retrospective study of 109 consecutive patients. Scopsi L, et al. **Cancer** 1996 Nov 15;78(10):2173–83

[Causes of death in patients with medullary cancer of the thyroid. GETC. Groupe d'Etude des Tumeurs à Calcitonine. Cohen R, et al. **Presse Med** 1996 Nov 30; 25(37):1819–22 (Eng. Abstr.) **(Fre)**

NURSING

Medullary thyroid carcinoma: one component of the inherited disorder multiple endocrine neoplasia type 2A. Giarelli E. **Oncol Nurs Forum** 1997 Jul;24(6):1007–20; quiz 1021–2 (48 ref.)

PATHOLOGY

Expression of c-Myc, TGF-alpha and EGF-receptor in sporadic medullary thyroid carcinoma. Wang W, et al. **Acta Oncol** 1997;36(4):407–11

Poorly differentiated colonic adenocarcinoma, medullary type: clinical, phenotypic, and molecular characteristics. Rüschoff J, et al. **Am J Pathol** 1997 May;150(5):1815–25

Metastatic neuroendocrine tumors to the thyroid gland mimicking medullary carcinoma: a pathologic and immunohistochemical study of six cases. Matias-Guiu X, et al. **Am J Surg Pathol** 1997 Jul;21(7):754–62

Histopathology of breast cancer in relation to age. Fisher CJ, et al. **Br J Cancer** 1997;75(4):593–6

A spectrum of cytomorphologic variations in medullary thyroid carcinoma. Fine-needle aspiration findings in 19 cases. Green I, et al. **Cancer** 1997 Feb 25;81(1):40–4

Histogenesis of thyroid C-cell carcinoma. Harach HR. **Curr Top Pathol** 1997;91:15–20 (61 ref.)

Diagnostic significance of signet ring cells in fine-needle aspirates of the breast. Sethi S, et al. **Diagn Cytopathol** 1997 Feb;16(2):117–21

A monoclonal antibody against rat calcitonin inhibits the growth of a rat medullary thyroid carcinoma cell line in vitro. Zhang R, et al. **Endocrinology** 1997 Apr; 138(4):1697–703

Simultaneous occurrence of a medullary and a papillary thyroid carcinoma in the same patient. Tseleni-Balafouta S, et al. **Gen Diagn Pathol** 1997 Jun;142(5–6):371–4

Characterisation of thyroid medullary carcinoma TT cell line. Zabel M, et al. **Histol Histopathol** 1997 Jan;12(1):283–9 (63 ref.)

Melanin production in medullary thyroid carcinoma. Ben Romdhane K, et al. **Histopathology** 1995 Dec;27(6):569–71

Prognostic comparison of three classifications for medullary carcinomas of the breast. Jensen ML, et al. **Histopathology** 1997 Jun;30(6):523–32

Medullary breast carcinoma vs. poorly differentiated ductal carcinoma: an immunohistochemical study with keratin 19 and oestrogen receptor staining. Jensen ML, et al. **Histopathology** 1996 Sep;29(3):241–5

Polyclonal origin of medullary carcinoma of the thyroid in multiple endocrine neoplasia type 2. Ferraris AM, et al. **Hum Genet** 1997 Feb;99(2):202–5

Thyroid medullary carcinoma occurring laterally in the neck [letter; comment] Harach HR, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):983–4. Comment on: J Clin Endocrinol Metab 1996 May;81(5):1784–6.

Multiple endocrine neoplasia type 2B (mucosal neuroma syndrome, Wagenmann–Froboese syndrome). Morrison PJ, et al. **J Med Genet** 1996 Sep;33(9):779–82 (31 ref.)

Simultaneous medullary carcinoma, occult papillary carcinoma and lymphocytic thyroiditis. Darwish A, et al. **Malays J Pathol** 1995 Dec;17(2):103–7

Mixed medullary–follicular carcinoma of the thyroid gland: a clinicopathologic variant of medullary thyroid carcinoma. Mizukami Y, et al. **Mod Pathol** 1996 Jun;9(6):631–5 (28 ref.)

Asynchronous bilateral medullary carcinoma of the breast. Young JS, et al. **South Med J** 1997 Apr;90(4):423–5 (18 ref.)

Special features of childhood and juvenile thyroid carcinomas. Balázs G, et al. **Surg Today** 1996;26(7):536–40

Prognostic impact of thyroid lymphocytic infiltration in patients with medullary thyroid carcinoma. Scopsi L, et al. **Thyroid** 1996 Dec;6(6):613–7

Mixed medullary-follicular carcinoma of the thyroid. A morphological, immunohistochemical and in situ hybridization analysis of 11 cases. Papotti M, et al. **Virchows Arch** 1997 May;430(5):397–405

[Significance of lymph node metastases of differentiated thyroid gland carcinomas and C-cell carcinomas for prognosis--a meta-analysis] Witte J, et al. **Zentralbl Chir** 1997;122(4):259–65 (Eng. Abstr.) **(Ger)**

[Histologic and immunohistochemical characterization of medullary thyroid carcinoma] Abrosimov Aiu. **Arkh Patol** 1996 Jul–Aug;58(4):43–8 (Eng. Abstr.) **(Rus)**

[Prognosis in breast carcinoma (letter)] Zámečník M. **Cesk Patol** 1997 May;33(2):69 **(Slo)**

[Syndrome of multiple neoplasia type IIB (MEN IIB): a case report] Alpera Lacruz R, et al. **An Esp Pediatr** 1996 Oct;

45(4):421–4 **(Spa)**

[Anaplastic variant of thyroid medullar carcinoma (letter)] Iglesias P, et al. **Med Clin (Barc)** 1997 Sep 6;109(7):276–7 **(Spa)**

[Medullary cancer of the thyroid. Experience at the Hospital de Valdivia] Pérez JA, et al. **Rev Med Chil** 1996 Jun; 124(6):707–14 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Cervical lymph node metastases of medullary thyroid carcinoma: CT findings. Pombo F, et al. **Eur Radiol** 1997; 7(1):99–101

Overdiagnosis of medullary carcinoma: a mammographic–pathologic correlative study. Liberman L, et al. **Radiology** 1996 Nov;201(2):443–6

RADIONUCLIDE IMAGING

Comparison of In–111 pentetreotide, Tc–99m (V)DMSA and I–123 mIBG scintimaging in neural crest tumors. Limouris GS, et al. **Anticancer Res** 1997 May–Jun;17(3B):1589–92

Pentavalent Tc–99m DMSA accumulation in a medullary carcinoma of the thyroid. Hirano T, et al. **Clin Nucl Med** 1997 May;22(5):339–40

Enhanced bilateral somatostatin receptor expression in mediastinal lymph nodes ("chimney sign") in occult metastatic medullary thyroid cancer: a typical site of tumour manifestation? Behr TM, et al. **Eur J Nucl Med** 1997 Feb;24(2):184–91 (20 ref.)

Increased uptake of indium–111 pentetreotide up to 10 years after external thoracic irradiation: report of two cases. Stoffel M, et al. **Eur J Nucl Med** 1996 Jun;23(6):723–6

Comparison of 99mTc(V)–DMSA, 201Tl and 99mTc–MIBI imaging in the follow–up of patients with medullary carcinoma of the thyroid. Ugur O, et al. **Eur J Nucl Med** 1996 Oct;23(10):1367–71

Targeting medullary thyroid carcinomas with bispecific antibodies and bivalent haptens. Results and clinical perspectives. Rouvier E, et al. **Horm Res** 1997; 47(4–6):163–7

Technetium–99m–sestamibi scanning in recurrent medullary thyroid carcinoma. Learoyd DL, et al. **J Nucl Med** 1997 Feb;38(2):227–30

Combined use of 111In–DTPA–D–Phe–1–octreotide (OCT) and 123I–vasoactive intestinal peptide (VIP) in the localization diagnosis of medullary thyroid carcinoma (MTC). Kurtaran A, et al. **Nucl Med Biol** 1996 May; 23(4):503–7

Somatostatin and somatostatin analogues in medullary thyroid carcinoma. O'Byrne KJ, et al. **Nucl Med Commun** 1996 Sep;17(9):810–6

Radiolabeled somatostatin analog scintigraphy in medullary thyroid carcinoma and carcinoid tumor. Rufini V, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):140–4

[Pre– and intraoperative localization of neuroendocrine tumors] Adams S, et al. **Acta Med Austriaca** 1997;24(2):81–6 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

Medullary thyroid cancer: the role of radiotherapy in local control. Fife KM, et al. **Eur J Surg Oncol** 1996 Dec; 22(6):588–91

Bispecific antibody and iodine–131–labeled bivalent hapten dosimetry in patients with medullary thyroid or small–cell lung cancer. Bardiès M, et al. **J Nucl Med** 1996 Nov; 37(11):1853–9

Medullary thyroid cancer: analyses of survival and prognostic factors and the role of radiation therapy in local control. Brierley J, et al. **Thyroid** 1996 Aug;6(4):305–10

SECONDARY

Improved results of cervical reoperation for medullary thyroid carcinoma. Moley JF, et al. **Ann Surg** 1997 Jun; 225(6):734–40; discussion 740–3

The surgical and oncologic significance of the axillary arch during axillary lymphadenectomy. Petrasek AJ, et al. **Can J Surg** 1997 Feb;40(1):44–7

Enhanced bilateral somatostatin receptor expression in mediastinal lymph nodes ("chimney sign") in occult metastatic medullary thyroid cancer: a typical site of tumour manifestation? Behr TM, et al. **Eur J Nucl Med** 1997 Feb;24(2):184–91 (20 ref.)

Technetium–99m–sestamibi scanning in recurrent medullary thyroid carcinoma. Learoyd DL, et al. **J Nucl Med** 1997 Feb;38(2):227–30

Differential display in primary and metastatic medullary thyroid carcinoma. Musholt TJ, et al. **J Surg Res** 1997 Apr; 69(1):94–100

111In–octreotide scintigraphy in metastatic medullary thyroid carcinoma before and after octreotide therapy: in vivo evidence of the possible down–regulation of somatostatin receptors. Ronga G, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):134–6

Early gastric cancer manifested as brain metastasis: report of a case. Nomura T, et al. **Surg Today** 1997;27(4):334–6

[Multiple bone metastasis and bone marrow invasion as an initial manifestation of a medullary thyroid carcinoma (letter)] Guerra Laso JM, et al. **An Med Interna** 1997 May; 14(5):263–4 **(Spa)**

SECRETION

The effect of steroids and their complexes with cyclodextrins on secretory activity of cultured thyroid medullary carcinoma cells. Grzeszkowiak J, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:69–70

Immunoelectron microscopic demonstration of regulated pathway for calcitonin and constitutive pathway for carcinoembryonic antigen in the same cells of human medullary carcinomas of thyroid glands. Osamura RY, et al. **Mod Pathol** 1997 Jan;10(1):7–11

SURGERY

Improved results of cervical reoperation for medullary thyroid carcinoma. Moley JF, et al. **Ann Surg** 1997 Jun; 225(6):734–40; discussion 740–3

Therapeutic options and results for the management of minimally invasive carcinoma of the breast: influence of axillary dissection for treatment of T1a and T1b lesions [see comments] White RE, et al. **J Am Coll Surg** 1996 Dec; 183(6):575–82. Comment in: J Am Coll Surg 1997 Jun;184(6):671–3.

Heterotopic autotransplantation of parathyroid tissue in children undergoing total thyroidectomy. Skinner MA, et al. **J Pediatr Surg** 1997 Mar;32(3):510–3

Treatment of minute medullary thyroid carcinoma in multiple endocrine neoplasia 2A families first diagnosed by DNA analysis of RET proto–oncogene mutations: a case report. Yamashita T, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):42–5

111In–pentetreotide scintigraphy in the post–thyroidectomy follow–up of patients with medullary thyroid carcinoma. Celentano L, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):131–3

[How good is the prognosis in differentiated thyroid gland carcinoma] Ommer A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:192–5 (Eng. Abstr.) **(Ger)**

[Surgical procedure in children with medullary thyroid gland carcinoma with reference to multiple endocrine neoplasia type II] Schäfer K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:202–4 (Eng. Abstr.) **(Ger)**

[Long–term course of medullary thyroid gland carcinoma] Wagner HE, et al. **Swiss Surg** 1996;2(5):181–6 (Eng. Abstr.) **(Ger)**

[Surgical therapy of differentiated thyroid gland carcinoma] Walgenbach S, et al. **Zentralbl Chir** 1997;122(4):252–8 (43 ref.) (Eng. Abstr.) **(Ger)**

[Medullary carcinoma of the thyroid] Francomano F, et al. **G Chir** 1996 Oct;17(10):535–42 (Eng. Abstr.) **(Ita)**

THERAPY

Breast–conserving surgery and adjuvant chemotherapy in pregnancy. Inbar MJ, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):765–7

Immune response against medullary thyroid carcinoma (MTC) induced by parental and/or interleukin–2–secreting MTC cells in a rat model of human familial medullary thyroid carcinoma. Lausson S, et al. **Cancer Immunol Immunother** 1996 Oct;43(2):116–23

Clinical experience of medullary thyroid carcinoma in Chang Gung Memorial Hospital. Ho C, et al. **Chang Keng I Hsueh** 1996 Jun;19(2):142–8

Medullary carcinoma of the thyroid misdiagnosed as differentiated thyroid carcinoma. Moody AM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):261–3

Medullary thyroid carcinoma. Evans DB, et al. **Curr Ther Endocrinol Metab** 1997;6:127–32 (12 ref.)

[Combined breast–preserving surgery, chemotherapy and radiotherapy in the treatment of breast carcinoma. Effect of the interval between surgery and the beginning of radiotherapy (published erratum appears in Strahlenther Onkol 1997 Apr;173(4):245)] Willers H, et al. **Strahlenther Onkol** 1997 Mar;173(3):148–54 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

[Diagnosis and therapy of thyroid carcinoma] Hölting T, et al. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1077–80 **(Ger)**

ULTRASTRUCTURE

Immunoelectron microscopic demonstration of regulated pathway for calcitonin and constitutive pathway for carcinoembryonic antigen in the same cells of human medullary carcinomas of thyroid glands. Osamura RY, et al. **Mod Pathol** 1997 Jan;10(1):7–11

CARCINOMA, MERKEL CELL

A review of Merkel cell carcinoma with emphasis on lymph node disease in the absence of a primary site. Straka JA, et al. **Am J Otolaryngol** 1997 Jan–Feb;18(1):55–65 (106 ref.)

Merkel cell carcinoma of the vulva. Gil–Moreno A, et al. **Gynecol Oncol** 1997 Mar;64(3):526–32 (40 ref.)

Merkel cell carcinoma: report of ten cases with emphasis on clinical course, treatment, and in vitro drug sensitivity. Krasagakis K, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):727–32

Merkel cell tumor in a woman with chronic lymphocytic leukemia. Safadi R, et al. **Leuk Lymphoma** 1996 Feb; 20(5–6):509–11

[Merkel cell carcinoma: primary cutaneous neuroendocrine tumor] Brousse C, et al. **Rev Med Interne** 1996; 17(12):1025–8 (23 ref.) (Eng. Abstr.) **(Fre)**

[Merkel cell tumor] Fónyad G, et al. **Orv Hetil** 1997 Jun 29;138(26):1695–7 (Eng. Abstr.) **(Hun)**

CHEMISTRY

[Immunophenotypic characterization of cutaneous neuroendocrine carcinoma derived from Merkel cells] Pozharisskiĭ KM, et al. **Arkh Patol** 1996 Sep–Oct;58(5):13–8 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Merkel cell carcinoma and multiple Bowen's disease: incidental association or possible relationship to inorganic arsenic exposure? Ohnishi Y, et al. **J Dermatol** 1997 May; 24(5):310–6

DIAGNOSIS

Cytokeratin 20 immunoreactivity distinguishes Merkel cell (primary cutaneous neuroendocrine) carcinomas and salivary gland small cell carcinomas from small cell carcinomas of various sites. Chan JK, et al. **Am J Surg Pathol** 1997 Feb;21(2):226–34

Nine cases of Merkel cell tumour. Bose A. **J R Soc Med** 1997 Aug;90(8):439–42

Uncommon cutaneous neoplasms. Harrington AC, et al. **Md Med J** 1997 May–Jun;46(5):255–62 (48 ref.)

[Merkel cell tumor of the skin] Hauschild A, et al. **Dtsch Med Wochenschr** 1997 Jun 6;122(23):753–6 (25 ref.) **(Ger)**

[Merkel cell carcinoma. A rare differential keratoacanthoma diagnosis] Schwab JA, et al. **HNO** 1997 May;45(5):398–400 (Eng. Abstr.) **(Ger)**

[Neuroendocrine carcinoma of the skin] Licheri S, et al. **Minerva Chir** 1996 Jun;51(6):497–500 (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Somatostatin receptor scintigraphy and therapy of neuroendocrine (APUD) tumors of the head and neck. Kau R, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):345–9

The role of radiation therapy and chemotherapy in the treatment of Merkel cell carcinoma. Fenig E, et al. **Cancer** 1997 Sep 1;80(5):881–5

Pharmacokinetics of carboplatin and etoposide in a haemodialysis patient with Merkel–cell carcinoma. Suzuki S, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):137–40

EPIDEMIOLOGY

The natural history and management of Merkel cell carcinoma of the skin: a review of 22 patients treated at the Royal Marsden Hospital. Savage P, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):164–7

Merkel cell carcinoma in Israel. Brenner B, et al. **Isr J Med Sci** 1996 Dec;32(12):1235–8

ETIOLOGY

Fatal Merkel–cell tumour (cutaneous neuroendocrine carcinoma) complicating renal transplantation. Douds AC, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2346–8

[Post–radiotherapy cutaneous neuro–endocrine carcinoma] Lardy F, et al. **Ann Dermatol Venereol** 1996;123(8):464–7 (Eng. Abstr.) **(Fre)**

[Neuroendocrine Merkel's tumor] Bednarz W, et al. **Przegl Lek** 1996;53(12):874–6 (20 ref.) (Eng. Abstr.) **(Pol)**

GENETICS

Expression of bcl–2 and p53 in Merkel cell carcinoma. An immunohistochemical study. Kennedy MM, et al. **Am J Dermatopathol** 1996 Jun;18(3):273–7

Cytogenetic study of neuroendocrine carcinoma of Merkel cells. Vázquez–Mazariego Y, et al. **Cancer Genet Cytogenet** 1996 Nov;92(1):79–81

Loss of heterozygosity of chromosome 13 in Merkel cell carcinoma. Leonard JH, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):93–7

Deletion mapping of the short arm of chromosome 3 in Merkel cell carcinoma. Leonard JH, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):102–7

Comparative genomic hybridization (CGH) discloses chromosomal and subchromosomal copy number changes in Merkel cell carcinomas. Härle M, et al. **J Cutan Pathol** 1996 Oct;23(5):391–7

p53 abnormalities are rare events in neuroendocrine (Merkel cell) carcinoma of the skin. An immunohistochemical and SSCP analysis. Schmid M, et al. **Virchows Arch** 1997 Mar; 430(3):233–7

METABOLISM

Immunohistochemical detection of cathepsins in Merkel cell carcinomas [letter] Thewes M, et al. **Acta Derm Venereol** 1997 Jul;77(4):328–9

Differences of bcl–2 protein expression between Merkel cells and Merkel cell carcinomas. Moll I, et al. **J Cutan Pathol** 1996 Apr;23(2):109–17

Pharmacokinetics of carboplatin and etoposide in a haemodialysis patient with Merkel–cell carcinoma. Suzuki

CARCINOMA, MERKEL CELL

S, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):137–40

PATHOLOGY

Merkel cell carcinoma diagnosed by fine–needle aspiration. Gottschalk–Sabag S, et al. **Am J Dermatopathol** 1996 Jun; 18(3):269–72

Merkel cell carcinoma: an aggressive malignancy. Pergolizzi J Jr, et al. **Am Surg** 1997 May;63(5):450–4

Merkel cell carcinoma of the skin. Treatment of primary, recurrent and metastatic disease: review of clinical cases. Queirolo P, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2339–42

Merkel cell tumour occurring simultaneously in the upper and lower eyelids. Marshmann WE, et al. **Aust N Z J Ophthalmol** 1996 Nov;24(4):377–80

Spontaneous regression of Merkel cell carcinoma of the skin. Yanguas I, et al. **Br J Dermatol** 1997 Aug;137(2):296–8

Merkel cell carcinoma of the skin. Al–Ghazal SK, et al. **Br J Plast Surg** 1996 Oct;49(7):491–6 (28 ref.)

Another case of spontaneous regression of Merkel cell (neuroendocrine) carcinoma. Connelly TJ, et al. **Dermatol Surg** 1997 Jul;23(7):588–90

Merkel cell carcinoma of the eyelid. Dini M, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):108–12

Merkel cells and Merkel cell carcinoma express the BCL–2 proto–oncogene [corrected and and republished article originally printed in Exp Dermatol 1996 Apr;5(2):102–7] Plettenberg A, et al. **Exp Dermatol** 1996 Jun;5(3):183–8

Intermediate filament aggregates in mitoses of primary cutaneous neuroendocrine (Merkel cell) carcinoma. Alvarez–Gago T, et al. **Histopathology** 1996 Apr; 28(4):349–55 (30 ref.)

Merkel cell carcinoma in Israel. Brenner B, et al. **Isr J Med Sci** 1996 Dec;32(12):1235–8

Differences of bcl–2 protein expression between Merkel cells and Merkel cell carcinomas. Moll I, et al. **J Cutan Pathol** 1996 Apr;23(2):109–17

Merkel cell carcinoma of the auricle. al–Dousary S, et al. **J Otolaryngol** 1996 Dec;25(6):408–11

Merkel cell carcinoma of palatal mucosa in a young adult: immunohistochemical and ultrastructural features. Inoue T, et al. **Oral Oncol** 1997 May;33(3):226–9

RADIOTHERAPY

Merkel cell carcinoma of the skin treated by primary radiotherapy [letter] al–Ghazal SK, et al. **Br J Dermatol** 1997 Apr;136(4):640–1

The role of radiation therapy and chemotherapy in the treatment of Merkel cell carcinoma. Fenig E, et al. **Cancer** 1997 Sep 1;80(5):881–5

SECONDARY

Breast metastases of Merkel cell carcinoma. Schnabel T, et al. **Eur J Cancer** 1996 Aug;32A(9):1617–8

Gingival metastasis of merkel cell carcinoma: a case report. Schmidt–Westhausen A, et al. **J Oral Pathol Med** 1996 Jan;25(1):44–7

[Uncommon tumor and pseudotumor lesions of the submandibular fossa] Vilde F, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(5):285–8 (Eng. Abstr.) **(Fre)**

SURGERY

Merkel cell carcinoma: the use of surgery and radiotherapy for locoregional control. Mistiaen WP, et al. **Acta Chir Belg** 1997 Jan–Feb;97(1):52–4

Merkel cell cancer: is prophylactic lymph node dissection indicated? Victor NS, et al. **Am Surg** 1996 Nov; 62(11):879–82

Selective lymphadenectomy in patients with Merkel cell (cutaneous neuroendocrine) carcinoma. Messina JL, et al. **Ann Surg Oncol** 1997 Jul–Aug;4(5):389–95

Lymphangiectomy and treatment modalities in Merkel cell carcinoma: a report of five new cases. Vandeput JJ, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3887–93 (49 ref.)

Merkel cell carcinoma in the nasal cavity: a case report. Melgarejo–Moreno P, et al. **Rhinology** 1996 Dec; 34(4):247–8

[Merkel cell tumor of the hand in a 104–year–old patient. Case report with review of the literature] Sonak RA, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):43–5 (21 ref.) (Eng. Abstr.) **(Ger)**

THERAPY

Merkel cell carcinoma of the skin. Treatment of primary, recurrent, and metastatic disease: review of clinical cases. Queirolo P, et al. **Anticancer Res** 1997 Jan–Feb; 17(1B):673–7 (22 ref.)

Merkel cell carcinoma of the skin. Treatment of primary, recurrent and metastatic disease: review of clinical cases. Queirolo P, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2339–42

Two cases of Merkel cell carcinoma cured by intratumor injection of natural human tumor necrosis factor. Hata Y, et al. **Plast Reconstr Surg** 1997 Feb;99(2):547–53

CARCINOMA, MUCINOUS see **ADENOCARCINOMA, MUCINOUS**

CARCINOMA, MUCOEPIDERMOID

CHEMICALLY INDUCED

Chemically induced pulmonary mucoepidermoid carcinoma in a female Wistar rat. Nolte T, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):305–8

COMPLICATIONS

Glossopharyngeal neuralgia with tongue carcinoma [letter] Pfendler DF. **Arch Otolaryngol Head Neck Surg** 1997 Jun; 123(6):658

Ataxia telangiectasia and mucoepidermoid carcinoma of the parotid gland: a case report. Hoşal AS, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):79–84

DIAGNOSIS

Cytologic features in fine–needle aspirates from a sclerosing mucoepidermoid thyroid carcinoma with eosinophilia. Bondeson L, et al. **Diagn Cytopathol** 1996 Nov;15(4):301–5

[Bronchial mucoepidermoid carcinoma: apropos of 3 cases] Deschildre A, et al. **Arch Pediatr** 1996 Jul;3(7):689–93 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Radiation therapy and chemotherapy in the conservative treatment of carcinoma of the anal canal: survival and late morbidity in a series of 25 patients. Gabriele AM, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):653–6

ENZYMOLOGY

Over–expression of glutathione S–transferases, DT–diaphorase and an apparently tumour–specific cytosolic class–3 aldehyde dehydrogenase by Warthin tumours and mucoepidermoid carcinomas of the human parotid gland. Sreerama L, et al. **Arch Oral Biol** 1996 Jun; 41(6):597–605

EPIDEMIOLOGY

Malignant salivary gland tumours in Sweden 1960–1989—an epidemiological study. Ostman J, et al. **Oral Oncol** 1997 May;33(3):169–76

Mucoepidermoid carcinoma of the bronchus: a case report and review of the literature. Granata C, et al. **Pediatr Pulmonol** 1997 Mar;23(3):226–32 (46 ref.)

METABOLISM

Effects of lovastatin on the fatty acid desaturation in a human lung mucoepidermoid carcinoma grown in nude mice. de Bravo MG, et al. **Biochem Mol Biol Int** 1996 Apr; 38(5):929–35

PATHOLOGY

Low–grade mucoepidermoid carcinoma on the vermilion border of the lip. Fernández–Figueras MT, et al. **Am J Dermatopathol** 1997 Apr;19(2):197–201

Mucoepidermoid carcinoma of the caruncle. Rodman RC, et al. **Am J Ophthalmol** 1997 Apr;123(4):564–5

Fine–needle sampling of salivary gland lesions. IV. Review of 50 cases of mucoepidermoid carcinoma with histologic correlation. Klijanienko J, et al. **Diagn Cytopathol** 1997 Aug;17(2):92–8 (41 ref.)

Squamous cells in fine–needle aspiration biopsies of salivary gland lesions: potential pitfalls in cytologic diagnosis. Mooney EE, et al. **Diagn Cytopathol** 1996 Dec;15(5):447–52

Prognostic significance of DNA ploidy in mucoepidermoid carcinoma. Gemryd P, et al. **Eur Arch Otorhinolaryngol** 1997;254(4):180–5

Glandular odontogenic cyst: a case report and clinicopathologic analysis of the relationship to central mucoepidermoid carcinoma. Manojlović S, et al. **Head Neck** 1997 May;19(3):227–31

Mucoepidermoid carcinoma and solid cell nests of the thyroid [letter; comment] Cameselle–Teijeiro J. **Hum Pathol** 1996 Aug;27(8):861–3. Comment on: Hum Pathol 1995 Oct;26(10):1099–108.

Sclerosing mucoepidermoid carcinoma with eosinophilia of the thyroid: report of two patients, one with distant metastasis, and review of the literature. Sim SJ, et al. **Hum Pathol** 1997 Sep;28(9):1091–6 (15 ref.)

Mucoepidermoid carcinoma of the conjunctiva of the lower lid—report of a case. Biswas J, et al. **Indian J Ophthalmol** 1996 Dec;44(4):231–3

Ataxia telangiectasia and mucoepidermoid carcinoma of the parotid gland: a case report. Hoşal AS, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):79–84

Mucoepidermoid carcinoma with cutaneous presentation. Yen A, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):340–2 (17 ref.)

Retromolar swelling in a 61–year–old woman [clinical conference] Chafitz ED, et al. **J Oral Maxillofac Surg** 1996 Dec;54(12):1446–50

Red–blue lesion of the hard palate [clinical conference] Manganaro AM, et al. **J Oral Maxillofac Surg** 1997 Feb; 55(2):159–65

Central mucoepidermoid carcinoma of the mandible: report of a case treated 13 years after first radiographic demonstration. Sidoni A, et al. **J Oral Maxillofac Surg** 1996 Oct;54(10):1242–5 (27 ref.)

Unusual presentation of carcinoma of the mandibular gingiva: report of a case. Urade M, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):1007–10

Bilateral mucoepidermoid carcinomas arising in bilateral pre–existing Warthin's tumours of the parotid gland. Seifert G. **Oral Oncol** 1997 Jul;33(4):284–7

Sclerosing mucoepidermoid carcinoma of the parotid. Muller S, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):685–90

Papillary and mucoepidermoid carcinoma of the thyroid with anaplastic transformation: a case report with histologic and immunohistochemical findings that support a provocative histogenetic hypothesis. Cameselle–Teijeiro J, et al. **Pathol Res Pract** 1995 Dec;191(12):1214–21

Mucoepidermoid carcinoma in a salivary duct cyst of the parotid gland. Contribution to the development of tumours in salivary gland cysts. Seifert G. **Pathol Res Pract** 1996 Dec;192(12):1211–7

[Human mucoepidermoid carcinoma MEC–1 cells induced differentiation by HMBA] Chen Y, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan; 31(1):28–30 (Eng. Abstr.) **(Chi)**

[Mucoepidermoid carcinoma and mucoepidermoid cyst of the jaw bones in the same patient. A clinical case and discussion of their histogenesis] Tanda F, et al. **Minerva Stomatol** 1996 Dec;45(12):599–603 (9 ref.) (Eng. Abstr.) **(Ita)**

[Clinico–morphologic characterization of mucoepidermoid carcinoma of the salivary glands] Kulikov LS, et al. **Arkh Patol** 1997 Mar–Apr;59(2):28–32 (Eng. Abstr.) **(Rus)**

[Effect of dietary supplementation with gamma–linolenic acid on the growth of a human lung carcinoma implanted in nude mice] de Bravo MG, et al. **Medicina (B Aires)** 1995; 55(6):670–4 (Eng. Abstr.) **(Spa)**

RADIOTHERAPY

Radiation therapy and chemotherapy in the conservative treatment of carcinoma of the anal canal: survival and late morbidity in a series of 25 patients. Gabriele AM, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):653–6

European results in neutron therapy of malignant salivary gland tumors. Krüll A, et al. **Bull Cancer Radiother** 1996; 83 Suppl:125–9s (44 ref.)

Postoperative radiotherapy for malignant tumors of the parotid gland. Garden AS, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):79–85

[Increased radiosensitivity in demonstrated p53 mutations in oral cavity carcinoma cell lines] Budach W. **Strahlenther Onkol** 1997 May;173(5):290–2 **(Ger)**

SECONDARY

Secondary squamous cell carcinoma of the orbit. Johnson TE, et al. **Arch Ophthalmol** 1997 Jan;115(1):75–8

SURGERY

Mucoepidermoid carcinoma of salivary gland origin: classification, clinical–pathological correlation, treatment results and long–term follow–up in 55 patients. Plambeck K, et al. **J Craniomaxillofac Surg** 1996 Jun;24(3):133–9

[A case of mucoepidermoid carcinoma underwent middle and lower sleeve bi–lobectomies with carinal reconstruction] Nakamura H, et al. **Kyobu Geka** 1996 Jul; 49(7):526–8 (Eng. Abstr.) **(Jpn)**

THERAPY

[Choice of optimum method and analysis of results of the treatment of patients with cancer of the oropharynx] Shuvalov SM. **Klin Khir** 1996;(8):26–7 **(Rus)**

CARCINOMA, NEUROENDOCRINE

BLOOD

[A case of neuroendocrine carcinoma of uterine cervix with the elevated plasma level of serotonin] Akiba Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Oct; 48(10):897–900 **(Jpn)**

CHEMISTRY

[Calcitonin–producing neuroendocrine carcinoma of the larynx: atypical carcinoid tumor] Morales C, et al. **Acta Otorrinolaringol Esp** 1996 Jul–Aug;47(4):333–5 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

Terminology of endocrine tumors of the uterine cervix: results of a workshop sponsored by the College of American Pathologists and the National Cancer Institute. Albores–Saavedra J, et al. **Arch Pathol Lab Med** 1997 Jan; 121(1):34–9 (32 ref.)

COMPLICATIONS

Metastatic pancreatic neuroendocrine carcinoma causing Cushing's syndrome. ACTH secretion by metastases 3 years after resection of nonfunctioning primary cancer. Zhu L, et al. **Int J Pancreatol** 1996 Jun;19(3):205–8

[Imaging of limbic paraneoplastic encephalitis] Rimmelin A,

et al. **J Radiol** 1997 Jan;78(1):73–6 (Eng. Abstr.) **(Fre)**
[Cushing syndrome disclosing bronchial neuroendocrine carcinoma: value of scintigraphy with octreotide] Vallette S, et al. **Rev Med Interne** 1997;18(2):138–43 (14 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Management of nonepidermoid cancer of the larynx. Browne JD. **Otolaryngol Clin North Am** 1997 Apr;30(2):215–29 (42 ref.)
[Calcitonin-producing neuroendocrine carcinoma of the larynx: atypical carcinoid tumor] Morales C, et al. **Acta Otorrinolaringol Esp** 1996 Jul–Aug;47(4):333–5 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Successful treatment of esthesioneuroblastoma and neuroendocrine carcinoma with combined chemotherapy and proton radiation. Results in 9 cases. Bhattacharyya N, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan; 123(1):34–40

ENZYMOLOGY

Primary neuroendocrine carcinoma of the skin expresses tyrosinase mRNA: detection by a specific nested PCR technique. Alegre M, et al. **Dermatology** 1997;194(4):334–7

METABOLISM

Bcl-2 protein expression in lung cancer and close correlation with neuroendocrine differentiation. Jiang SX, et al. **Am J Pathol** 1996 Mar;148(3):837–46
Cell-specific expression of the glucose-dependent insulinotropic polypeptide gene in a mouse neuroendocrine tumor cell line. Boylan MO, et al. **J Biol Chem** 1997 Jul 11;272(28):17438–43

PATHOLOGY

Exfoliative cytology of invasive neuroendocrine small cell carcinoma in a cervical cytologic smear. A case report. Reich O, et al. **Acta Cytol** 1996 Sep–Oct;40(5):980–4
Primary neuroendocrine carcinoma of the skin with an unusual follicular lymphocytic infiltrate of the dermis. Bastian BC, et al. **Am J Dermatopathol** 1996 Dec; 18(6):625–8
Large cell carcinoma of the uterine cervix: a clinicopathologic study of 12 cases. Gilks CB, et al. **Am J Surg Pathol** 1997 Aug;21(8):905–14
Clinical-pathologic analysis of 40 patients with large cell neuroendocrine carcinoma of the lung. Dresler CM, et al. **Ann Thorac Surg** 1997 Jan;63(1):180–5
Another case of spontaneous regression of Merkel cell (neuroendocrine) carcinoma. Connelly TJ, et al. **Dermatol Surg** 1997 Jul;23(7):588–90
Successful treatment of neuroendocrine small cell carcinoma of the cervix metastatic to regional lymph nodes. Kim YB, et al. **Gynecol Oncol** 1996 Sep;62(3):411–4
Neuroendocrine carcinoma of the larynx. Curran AC, et al. **Ir J Med Sci** 1997 Jan–Mar;166(1):44–6
Moderately differentiated neuroendocrine carcinoma (atypical carcinoid) of the larynx. Kasantikul V, et al. **J Med Assoc Thai** 1997 Jun;80(6):396–401
Neuroendocrine carcinoma of the larynx. Hartley C, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):333–5
Primary neuroendocrine carcinoma of the penile urethra. Vadmal MS, et al. **J Urol** 1997 Mar;157(3):956–7
Neuroendocrine differentiation in pancreatic duct carcinoma special emphasis on duct–endocrine cell carcinoma of the pancreas. Kamisawa T, et al. **Pathol Res Pract** 1996 Sep; 192(9):901–8
Retroperitoneal cystic neuroendocrine tumor. A case report. Scapinello A, et al. **Pathologica** 1995 Oct;87(5):544–47
Primary small cell neuroendocrine carcinoma of the kidney. Morgan KG, et al. **Ultrastruct Pathol** 1996 Mar–Apr; 20(2):141–4
Small cell neuroendocrine carcinoma of the ovary. Fukunaga M, et al. **Virchows Arch** 1997 Apr;430(4):343–8
Gastric carcinoids and neuroendocrine carcinomas: pathogenesis, pathology, and behavior. Rindi G, et al. **World J Surg** 1996 Feb;20(2):168–72
[Neuroendocrine tumor of the bladder apropos of a case. Review of the literature] Avances C, et al. **Prog Urol** 1997 Feb;7(1):85–7 (16 ref.) (Eng. Abstr.) **(Fre)**
[Breast cancer with neuroendocrine differentiation] Delektorskaia VV, et al. **Arkh Patol** 1997 Mar–Apr; 59(2):53–7 (Eng. Abstr.) **(Rus)**
[Neuroendocrine carcinoma of the larynx] Pérez Fernández F, et al. **Acta Otorrinolaringol Esp** 1996 Nov–Dec; 47(6):484–6 (Eng. Abstr.) **(Spa)**

RADIONUCLIDE IMAGING

Neuroendocrine carcinomas of the lung and role of 111In-DTPA-octreotide scintigraphy: preliminary results. Oliaro A, et al. **J Cardiovasc Surg (Torino)** 1996 Dec; 37(6):653–6

RADIOTHERAPY

Successful treatment of esthesioneuroblastoma and neuroendocrine carcinoma with combined chemotherapy and proton radiation. Results in 9 cases. Bhattacharyya N, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan; 123(1):34–40

SECONDARY

Metastatic pancreatic neuroendocrine carcinoma causing Cushing's syndrome. ACTH secretion by metastases 3 years after resection of nonfunctioning primary cancer. Zhu L, et al. **Int J Pancreatol** 1996 Jun;19(3):205–8
Well-differentiated pulmonary neuroendocrine carcinoma metastatic to the endometrium: a case report. Jordan CD, et al. **Mod Pathol** 1996 Nov;9(11):1066–70

SURGERY

[Carcinoid tumors and neuroendocrine carcinomas of the stomach. Prognosis and therapeutic management. Study of 6 cases] Moreaux J, et al. **Ann Chir** 1997;51(2):121–9 (Eng. Abstr.) **(Fre)**
[Neuroendocrine cell carcinoma of the urinary bladder: a case report] Mikami K, et al. **Hinyokika Kiyo** 1996 Jul; 42(7):529–31 (Eng. Abstr.) **(Jpn)**

THERAPY

[Neuroendocrine primary cutaneous carcinoma. Therapeutic aspects in 13 patients] Bedane C, et al. **Ann Dermatol Venereol** 1996;123(8):443–6 (Eng. Abstr.) **(Fre)**

ULTRASTRUCTURE

Immunoelectron microscopy for chromogranin A in small cell neuroendocrine carcinoma of lung. Dardick I, et al. **Ultrastruct Pathol** 1996 Jul–Aug;20(4):361–8
Primary small cell neuroendocrine carcinoma of the kidney. Morgan KG, et al. **Ultrastruct Pathol** 1996 Mar–Apr; 20(2):141–4

CARCINOMA, NON-SMALL-CELL LUNG

see related
ADENOCARCINOMA
CARCINOMA, LARGE CELL
CARCINOMA, SMALL CELL
CARCINOMA, SQUAMOUS CELL

Phase II study of vinorelbine/ifosfamide/cisplatin for the treatment of advanced non-small-cell lung cancer. Baldini E, et al. **Ann Oncol** 1996 Sep;7(7):747–9
Randomized study of vinorelbine (VRB) versus vindesine (VDS) in previously untreated stage IIIB or IV non-small-cell lung cancer (NSCLC). The Japan Vinorelbine Lung Cancer Cooperative Study Group. Furuse K, et al. **Ann Oncol** 1996 Oct;7(8):815–20
The multimodality treatment of stage III A/B non-small cell lung cancer. The role of surgery, radiation, and chemotherapy. Lee JD, et al. **Hematol Oncol Clin North Am** 1997 Apr;11(2):279–301 (59 ref.)
Non-small cell lung cancer: clinical value of new biological predictors. Graziano SL. **Lung Cancer** 1997 Jun;17 Suppl 1:S37–58 (118 ref.)
NCCN Non-Small-Cell Lung Cancer Practice Guidelines. The National Comprehensive Cancer Network. Ettinger DS, et al. **Oncology (Huntingt)** 1996 Nov;10(11 Suppl):81–111
Non-small cell lung cancer: an overview of diagnosis, staging, and treatment. Harwood KV. **Semin Oncol Nurs** 1996 Nov;12(4):285–94 (62 ref.)

BLOOD

Chronopharmacology of etoposide given by low dose prolonged infusion in lung cancer patients. Yamamoto N, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):669–72
Diagnostic and prognostic value of Cyfra 21-1 compared with other tumour markers in patients with non-small cell lung cancer: a prospective study of 116 patients. Bréchot JM, et al. **Eur J Cancer** 1997 Mar;33(3):385–91
Elevated plasma levels of urokinase plasminogen activator receptor in non-small cell lung cancer patients. Pappot H, et al. **Eur J Cancer** 1997 May;33(6):867–72
Evaluation of response to chemotherapy in patients affected with non-small cell lung cancer by means of three tumour markers elaborated by discriminant analysis. Paone G, et al. **Respir Med** 1997 Jul;91(6):361–7
Increased levels of serum intercellular adhesion molecule-1 (ICAM-1) in patients with non-small cell lung cancer. Osaki T, et al. **Surg Oncol** 1996 Jun;5(3):107–13
Prognostic significance of plasma D-dimer levels in patients with lung cancer. Taguchi O, et al. **Thorax** 1997 Jun; 52(6):563–5

BLOOD SUPPLY

Platelet-derived endothelial cell growth factor expression correlates with tumour angiogenesis and prognosis in non-small-cell lung cancer. Koukourakis MI, et al. **Br J Cancer** 1997;75(4):477–81

CHEMISTRY

Angiogenic growth factors and their receptors in non-small cell lung carcinomas and their relationships to drug response in vitro. Volm M, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):99–103
Changes in plasminogen activator inhibitor-1 levels in non-small cell lung cancer. Pavey SJ, et al. **Boll Soc Ital Biol Sper** 1996 Nov–Dec;72(11–12):331–40
Cyclin A is associated with an unfavourable outcome in patients with non-small-cell lung carcinomas. Volm M, et al. **Br J Cancer** 1997;75(12):1774–8
The prognostic application of cytokeratin typing of nonsmall cell lung carcinoma. A retrospective study. Cohen R, et al. **Cancer** 1997 Feb 1;79(3):468–73
Prognostic value of basic fibroblast growth factor and its receptor (FGFR-1) in patients with non-small cell lung carcinomas. Volm M, et al. **Eur J Cancer** 1997 Apr; 33(4):691–3
Expression of cell adhesion molecules in lung cancer cell lines. Horn S, et al. **Exp Toxicol Pathol** 1996 Nov; 48(6):535–40
Absence of prognostic significance of bcl-2 immunopositivity in non-small cell lung cancer: analysis of 427 cases. Anton RC, et al. **Hum Pathol** 1997 Sep;28(9):1079–82
GRP receptors are present in non small cell lung cancer cells. Moody TW, et al. **J Cell Biochem Suppl** 1996;24:247–56
Suppression of retinoic acid receptor beta in non-small-cell lung cancer in vivo: implications for lung cancer development [see comments] Xu XC, et al. **J Natl Cancer Inst** 1997 May 7;89(9):624–9. Comment in: J Natl Cancer Inst 1997 May 7;89(9):602–4.
The prognostic value of NCAM, p53 and cyclin D1 in resected non-small cell lung cancer. Kwa HB, et al. **Lung Cancer** 1996 Jun;14(2–3):207–17
Levels of plasminogen activator inhibitor type 1 and urokinase plasminogen activator receptor in non-small cell lung cancer as measured by quantitative ELISA and semiquantitative immunohistochemistry. Pappot H, et al. **Lung Cancer** 1997 Jul;17(2–3):197–209
Surfactant proteins and thyroid transcription factor-1 in pulmonary and breast carcinomas. Bejarano PA, et al. **Mod Pathol** 1996 Apr;9(4):445–52
[Expression of transforming growth factor alpha and p53 in non-small cell lung cancer by immunohistochemical study] Wang H, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar; 18(2):84–7 (Eng. Abstr.) **(Chi)**

CLASSIFICATION

Re: Stage IIIA category of non-small-cell lung cancer: a new proposal [letter; comment] [published erratum appears in J Natl Cancer Inst 1997 Feb 19;89(4):328] Grunenwald D, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):88–9. Comment on: J Natl Cancer Inst 1994 Apr 20;86(8):586–8.

COMPLICATIONS

The use of pamidronate in hypertrophic pulmonary osteoarthropathy (HPOA). Speden D, et al. **Aust N Z J Med** 1997 Jun;27(3):307–10
Anaemia of lung cancer is due to impaired erythroid marrow response to erythropoietin stimulation as well as relative inadequacy of erythropoietin production. Dowlati A, et al. **Br J Haematol** 1997 May;97(2):297–9
Intestinal bleeding in disseminated non-small cell lung cancer. Centeno Cortés C, et al. **Lung Cancer** 1997 Aug; 18(1):101–5
[Extrinsic compression of the pulmonary artery by non-microcytic lung carcinoma] Valls Serral A, et al. **Rev Esp Cardiol** 1997 Mar;50(3):208–10 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Pretreatment evaluation of non-small-cell lung cancer. The American Thoracic Society and The European Respiratory Society. **Am J Respir Crit Care Med** 1997 Jul;156(1):320–32
Non-small cell lung cancer at the extremes of age: impact on diagnosis and treatment. Nugent WC, et al. **Ann Thorac Surg** 1997 Jan;63(1):193–7
Soluble and cell-associated transferrin receptor in lung cancer. Dowlati A, et al. **Br J Cancer** 1997;75(12):1802–6
Validation of an algorithm able to differentiate small-cell lung cancer (SCLC) from non-small-cell lung cancer (NSCLC) patients by means of a tumour marker panel: analysis of the errors. Paone G, et al. **Br J Cancer** 1997; 75(3):448–50
Appropriate diagnostic evaluation. Dresler CM. **Curr Probl Cancer** 1996 May–Jun;20(3):147–56 (21 ref.)
Erythema gyratum repens: another case of a rare disorder but no new insight into pathogenesis. Rojo Sánchez S, et al. **Dermatology** 1996;193(4):336–7
MR study of N2 disease in lung cancer: contrast-enhanced method using gadolinium-DTPA. Crisci R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):214–7
Surgery for non-small cell lung cancer with unsuspected metastasis to ipsilateral mediastinal or subcarinal nodes (N2 disease). De Leyn P, et al. **Eur J Cardiothorac Surg** 1996; 10(8):649–54; discussion 654–5
Comparison of imaging TNM [(i)TNM] and pathological TNM [pTNM] in staging of bronchogenic carcinoma. Gdeedo A, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):224–7
Staging intrathoracic non-small-cell lung cancer. Hanson JA, et al. **Eur Radiol** 1997;7(2):161–72 (167 ref.)
Prognostic markers in resectable non-small cell lung cancer. Strauss GM. **Hematol Oncol Clin North Am** 1997 Jun; 11(3):409–34 (88 ref.)

Granulomatous visceral neuropathy of the colon with non-small cell lung carcinoma. Roberts PF, et al. **Histopathology** 1997 Jun;30(6):588–91

Prognostic value of p53 in non-small cell lung cancer: relationship with proliferating cell nuclear antigen and cigarette smoking. Esposito V, et al. **Hum Pathol** 1997 Feb; 28(2):233–7

A practical prognostic index for inoperable non-small-cell lung cancer. Wigren T, et al. **J Cancer Res Clin Oncol** 1997;123(5):259–66

Immunocytochemical markers in stage I lung cancer: relevance to prognosis. Pastorino U, et al. **J Clin Oncol** 1997 Aug;15(8):2858–65

Usefulness of longitudinal evaluation of Cyfra 21–1 variations in advanced lung cancer monitoring. Hamzaoui A, et al. **Lung Cancer** 1997 Mar;16(2–3):191–202

Actinomycosis, a sheep in wolves' clothes. Neijens V, et al. **Lung Cancer** 1996 Aug;15(1):131–5

Accuracy of computed tomography and magnetic resonance imaging in staging bronchogenic carcinoma. Manfredi R, et al. **MAGMA** 1996 Sep–Dec;4(3–4):257–62

Recent advances in managing non-small-cell lung cancer: 1. Clinical aspects of diagnosis and staging. Irving LB. **Med J Aust** 1997 Jun 2;166 Suppl:S3–6

Evaluation of Cyfra 21–1 as a marker for lung cancer. Najemnik C, et al. **Wien Klin Wochenschr** 1996; 108(15):467–72

[Paraneoplastic IgA nephritis as the initial symptom of bronchial carcinoma] Schütte W, et al. **Pneumologie** 1996 Jul;50(7):494–5 (Eng. Abstr.) **(Ger)**

[Tumor-associated prognostic parameters in non-small-cell bronchial carcinoma] Thomas M. **Pneumologie** 1997 Jul; 51(7):669–77 (117 ref.) **(Ger)**

[Large-cell carcinoma presenting as diffuse thickening of the pleura and resembling malignant mesothelioma] Nakamura H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr; 35(4):451–4 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Suramin in non-small cell lung cancer and advanced breast cancer. Two parallel phase II studies. Mirza MR, et al. **Acta Oncol** 1997;36(2):171–4

Chemotherapy in the treatment of non-small cell lung cancer. Hainsworth JD. **Am Fam Physician** 1997 May 1; 55(6):2265–72 (31 ref.)

Acceptability of patients with brain metastases for clinical trials of chemotherapy for metastatic non-small-cell lung cancer. Ando Y, et al. **Am J Clin Oncol** 1996 Oct; 19(5):478–82

Phase II study of oral doxifluridine in elderly patients with advanced non-small-cell lung cancer. Baldini E, et al. **Am J Clin Oncol** 1996 Dec;19(6):592–4

Cisplatin and vinorelbine followed by radiotherapy in the treatment of stage III–B non-small-cell lung cancer patients. Felip E, et al. **Am J Clin Oncol** 1997 Aug; 20(4):404–6

A phase II study of carboplatin–cisplatin–etoposide combination chemotherapy in advanced non-small-cell lung cancer. Makimoto T, et al. **Am J Clin Oncol** 1997 Feb;20(1):51–4

Combined carboplatin and cisplatin therapy in patients with advanced non-small cell lung cancer. Nakanishi R, et al. **Am J Clin Oncol** 1997 Feb;20(1):31–5

Phase II trial of dose intensification with cisplatin and carboplatin plus vindesine in patients with inoperable non-small cell lung cancer. Nakanishi Y, et al. **Am J Clin Oncol** 1997 Aug;20(4):393–7

Mitomycin lung toxicity. Acute and chronic phases. Okuno SH, et al. **Am J Clin Oncol** 1997 Jun;20(3):282–4

A phase II study of cisplatin, 5-fluorouracil, leucovorin, and etoposide in advanced non-small-cell lung cancer. Rixe O, et al. **Am J Clin Oncol** 1997 Apr;20(2):128–31

Prolonged infusion of etoposide in patients with advanced non-small cell lung cancer. Robert F, et al. **Am J Clin Oncol** 1996 Oct;19(5):483–6

Ifosfamide and vinorelbine as first-line chemotherapy for advanced non-small cell lung carcinoma. Vallejo C, et al. **Am J Clin Oncol** 1996 Dec;19(6):584–8

Adynamic ileus in a patient with non-small-cell lung cancer after treatment with vinorelbine. Liebmann J, et al. **Am J Med** 1996 Dec;101(6):658–9

Chemotherapy in non-small cell lung cancer: a review. Tan EH, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):570–83 (125 ref.)

Phase I study of paclitaxel and oral etoposide in previously untreated non-small-cell and extensive small-cell lung cancer. Boyer MJ, et al. **Ann Oncol** 1997 May;8(5):485–9

A better therapeutic profile for the combination of mitomycin-C, ifosfamide and cisplatin (MIC) in advanced non-small-cell lung cancer: a useful dose-schedule modification. Crinò L, et al. **Ann Oncol** 1997 Jul; 8(7):709–11

Dose-intense therapy with etoposide, ifosfamide, cisplatin, and epirubicin (VIP–E) in 107 consecutive patients with limited- and extensive-stage non-small-cell lung cancer. Fetscher S, et al. **Ann Oncol** 1997 Jan;8(1):57–64

Mitomycin C plus vindesine plus etoposide (MEV) versus mitomycin C plus vindesine plus cisplatin (MVP) in stage IV non-small-cell lung cancer: A phase III multicentre randomised trial. The 'Gruppo Oncologico Centro-Sud-Isole' (G.O.C.S.I.). Gridelli C, et al. **Ann Oncol** 1996 Oct;7(8):821–6

Ifosfamide plus paclitaxel in advanced non-small-cell lung cancer: a phase I study. Hoffman PC, et al. **Ann Oncol** 1996 Mar;7(3):314–6

Phase II trial of the oral platinum complex JM216 in non-small-cell lung cancer: an EORTC early clinical studies group investigation. Judson I, et al. **Ann Oncol** 1997 Jun;8(6):604–6

A prospective randomized phase III study in non-small-cell lung cancer comparing cisplatin, ifosfamide, vinblastine (VIP) versus cisplatin, ifosfamide and etoposide (VIP–16). Hellenic Co-Operative Oncology Group. Kosmidis P, et al. **Ann Oncol** 1996 Jul;7(5):517–20

Paclitaxel and carboplatin in inoperable non-small-cell lung cancer: a phase II study. Kosmidis PA, et al. **Ann Oncol** 1997 Jul;8(7):697–9

Overdosage of vinorelbine in a woman with metastatic non-small-cell lung carcinoma [letter] Lotz JP, et al. **Ann Oncol** 1997 Jul;8(7):714–5

Single-agent gemcitabine versus cisplatin–etoposide: early results of a randomised phase II study in locally advanced or metastatic non-small-cell lung cancer [see comments] Manegold C, et al. **Ann Oncol** 1997 Jun;8(6):525–9. Comment in: Ann Oncol 1997 Jun;8(6):513–4.

Oral ifosfamide/mesna versus intravenous ifosfamide/mesna in non-small-cell lung cancer: a randomized phase II trial of the EORTC lung cancer cooperative group. Manegold C, et al. **Ann Oncol** 1996 Aug;7(6):637–9

A randomized phase II study with two schedules of the novel indoloquinone EO9 in non-small-cell lung cancer: a study of the EORTC Early Clinical Studies Group (ECSG). Pavlidis N, et al. **Ann Oncol** 1996 Jul;7(5):529–31

Phase II study of a closely spaced ifosfamide–cisplatin schedule with the addition of G-CSF in advanced non-small-cell lung cancer and malignant melanoma. Planting AS, et al. **Ann Oncol** 1996 Dec;7(10):1080–2

Phase I study of paclitaxel (Taxol) and ifosfamide in previously untreated patients with advanced non-small-cell lung cancer. A study of the National Cancer Institute of Canada Clinical Trials Group. Shepherd FA, et al. **Ann Oncol** 1996 Mar;7(3):311–3

The increased armament in the battle against non-small-cell lung cancer [editorial; comment] Sørensen JB. **Ann Oncol** 1997 Jun;8(6):513–4. Comment on: Ann Oncol 1997 Jun;8(6):525–9.

Comment: vinorelbine and gemcitabine--new antineoplastic drugs [letter; comment] Guchelaar HJ. **Ann Pharmacother** 1996 Nov;30(11):1343. Comment on: Ann Pharmacother 1996 May;30(5):501–6.

Safety profile of gemcitabine, a novel anticancer agent, in non-small cell lung cancer. Cortes-Funes H, et al. **Anticancer Drugs** 1997 Jul;8(6):582–7

Drug interactions of 5-fluorouracil with either cisplatin or lobaplatin--a new, clinically active platinum analog in established human cancer cell lines. Harstrick A, et al. **Anticancer Drugs** 1997 Apr;8(4):391–5

Pilot phase I–II study on 5-aza-2'-deoxycytidine (Decitabine) in patients with metastatic lung cancer. Momparler RL, et al. **Anticancer Drugs** 1997 Apr; 8(4):358–68

Effect of CPT-11 in combination with other anticancer agents in lung cancer cells. Pei XH, et al. **Anticancer Drugs** 1997 Mar;8(3):231–7

A phase II trial of docetaxel in advanced non-small cell lung cancer. Saarinen A, et al. **Anticancer Drugs** 1996 Nov; 7(8):890–2

Activity of gemcitabine in the treatment of patients with non-small cell lung cancer: a multicenter phase II study. Yokoyama A, et al. **Anticancer Drugs** 1997 Jul;8(6):574–81

Feasibility and toxicity of combination chemotherapy with ifosfamide, vinorelbine, cisplatin versus ifosfamide, vinorelbine in patients with advanced non small cell lung cancer. Mencoboni M, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2795–8

A pilot study with cisplatin, ifosfamide and weekly administration of vinorelbine as an outpatient combination chemotherapy for advanced non small cell lung cancer. Tibaldi C, et al. **Anticancer Res** 1996 Sep–Oct; 16(5B):3213–5

A phase III study of radiotherapy with and without continuous-infusion fluorouracil as palliation for non-small-cell lung cancer. Ball D, et al. **Br J Cancer** 1997; 75(5):690–7

Cisplatin/carboplatin + etoposide + vinorelbine in advanced non-small-cell lung cancer: a multicentre randomised trial. Gruppo Oncologico Campano. Comella P, et al. **Br J Cancer** 1996 Dec;74(11):1805–11

A pilot study of concurrent whole-brain radiotherapy and chemotherapy combined with cisplatin, vindesine and mitomycin in non-small-cell lung cancer with brain metastasis. Furuse K, et al. **Br J Cancer** 1997;75(4):614–8

Modulation of sensitivity to cis-diamminedichloroplatinum (II) by thromboxane A2 receptor antagonists in non-small-cell lung cancer cell lines. Kasahara K, et al. **Br J Cancer** 1996 Nov;74(10):1553–8

Multicentre phase II pharmacological evaluation of rhizoxin. Eortc early clinical studies (ECSG)/pharmacology and molecular mechanisms (PAMM) groups. McLeod HL, et al. **Br J Cancer** 1996 Dec;74(12):1944–8

Gemcitabine. Prendiville J, et al. **Br J Hosp Med** 1997 Apr 16–May 6;57(8):405–9

Phase I/II study of carboplatin and oral etoposide with granulocyte-colony stimulating factor in advanced nonsmall cell lung cancer. Frasci G, et al. **Cancer** 1995 Apr 1;75(7):1578–85

Mitomycin C, vinblastine, and carboplatin regimen in patients with nonsmall cell lung cancer. A phase II trial. Paccagnella A, et al. **Cancer** 1996 Oct 15;78(8):1701–7

p53 mutations do not predict response to paclitaxel/radiation for nonsmall cell lung carcinoma. Safran H, et al. **Cancer** 1996 Sep 15;78(6):1203–10

Phase II study of patients with metastatic nonsmall cell carcinoma of the lung treated with paclitaxel by 3-hour infusion. Tester WJ, et al. **Cancer** 1997 Feb 15;79(4):724–9

Toremifene concentration and multidrug resistance in lung tumors. Liippo K, et al. **Cancer Chemother Pharmacol** 1997; 39(3):212–6

Phase II trial of chloroquinoxaline sulfonamide (CQS) in patients with stage III and IV non-small-cell lung cancer. Miller VA, et al. **Cancer Chemother Pharmacol** 1997; 40(5):415–8

Combination effects of cisplatin, vinorelbine and irinotecan in non-small-cell lung cancer cell lines in vitro. Mogi H, et al. **Cancer Chemother Pharmacol** 1997;39(3):199–204

A phase I study of irinotecan and infusional cisplatin for advanced non-small-cell lung cancer. Mori K, et al. **Cancer Chemother Pharmacol** 1997;39(4):327–32

A phase II study of weekly high-dose cisplatin combined with oral etoposide in advanced non-small-cell lung cancer. Planting A, et al. **Cancer Chemother Pharmacol** 1997;40(4):347–52

High-dose carboplatin plus paclitaxel with granulocyte colony-stimulating factor and peripheral blood stem-cell support in non-small-cell lung cancer. Shea TC. **Cancer Chemother Pharmacol** 1997;40 Suppl:S74–8

A feasibility study of 1-h paclitaxel infusion in patients with solid tumors. Tsavaris N, et al. **Cancer Chemother Pharmacol** 1997;40(4):353–7

Effect of Krestin as adjuvant treatment following radical radiotherapy in non-small cell lung cancer patients. Hayakawa K, et al. **Cancer Detect Prev** 1997;21(1):71–7

Combination of chemotherapy and recombinant interferon-alpha in advanced non-small cell lung cancer. Hastürk S, et al. **Cancer Lett** 1997 Jan 15;112(1):17–22

Significant survival benefit to patients with advanced non-small-cell lung cancer from treatment with clarithromycin. Mikasa K, et al. **Chemotherapy** 1997 Jul–Aug;43(4):288–96

Respiratory failure following vinorelbine tartrate infusion in a patient with non-small cell lung cancer. Kouroukis C, et al. **Chest** 1997 Sep;112(3):846–8

Preoperative chemotherapy for stage IIIA non-small cell lung cancer [see comments] Rosell R, et al. **Curr Opin Oncol** 1997 Mar;9(2):149–55 (48 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):147–8.

Treatment of metastatic non-small cell lung cancer. van Zandwijk N, et al. **Curr Opin Oncol** 1996 Mar;8(2):120–5

Locally advanced non-small cell lung cancer: the "local" issue. Movsas B. **Curr Probl Cancer** 1996 May–Jun; 20(3):197–212 (57 ref.)

Gemcitabine for lung cancer. **Drug Ther Bull** 1996 Sep; 34(9):71–2

Gemcitabine. A review of its pharmacology and clinical potential in non-small cell lung cancer and pancreatic cancer. Noble S, et al. **Drugs** 1997 Sep;54(3):447–72 (119 ref.)

Non-small cell lung cancer: an overview of current management. Dancey J, et al. **Eur J Cancer** 1997 Jan;33 Suppl 1:S2–7 (88 ref.)

The cost-effectiveness of navelbine alone or in combination with cisplatin in comparison to other chemotherapy regimens and best supportive care in stage IV non-small cell lung cancer. Evans WK, et al. **Eur J Cancer** 1996 Dec; 32A(13):2249–55

Pre-operative chemoradiotherapy in non-small cell lung cancer stage III patients. Feasibility, toxicity and long-term results of a phase II study. Favaretto A, et al. **Eur J Cancer** 1996 Nov;32A(12):2064–9

Vinorelbine is well tolerated and active in the treatment of elderly patients with advanced non-small cell lung cancer. A two-stage phase II study. Gridelli C, et al. **Eur J Cancer** 1997 Mar;33(3):392–7

Accelerated split-course (type B) thoracic radiation therapy plus vinorelbine/carboplatin combination chemotherapy in stage III inoperable non-small cell lung cancer. Iaffaioli RV, et al. **Eur J Cancer** 1996 Oct;32A(11):1901–4

A phase I study of irinotecan and infusional cisplatin with recombinant human granulocyte colony-stimulating factor support in the treatment of advanced non-small cell lung cancer. Mori K, et al. **Eur J Cancer** 1997 Mar;33(3):503–5

Combination therapy with gemcitabine in non-small cell lung cancer. Mosconi AM, et al. **Eur J Cancer** 1997 Jan;33 Suppl 1:S14–7 (20 ref.)

Improving quality of life in patients with non-small cell lung cancer: research experience with gemcitabine. Thatcher N, et al. **Eur J Cancer** 1997 Jan;33 Suppl 1:S8–13 (33 ref.)

Vinorelbine treatment of advanced non-small cell lung cancer with special emphasis on elderly patients. Veronesi A, et al. **Eur J Cancer** 1996 Sep;32A(10):1809–11

Hormonal treatment in advanced non-small cell lung cancer: fact or fiction? Vansteenkiste JF, et al. **Eur Respir J** 1996 Aug;9(8):1707–12 (48 ref.)

New drugs for the treatment of lung cancer. The Tokyo Cooperative Oncology Group. Niitani H, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:117–9

Optimizing chemotherapy and radiotherapy in locally advanced non-small cell lung cancer. Arriagada R. **Hematol Oncol Clin North Am** 1997 Jun;11(3):461–72 (37 ref.)

Chemotherapy for advanced non-small cell lung cancer. Herbst RS, et al. **Hematol Oncol Clin North Am** 1997 Jun; 11(3):473–517 (204 ref.)

In vivo effect of pachymatismin, a new marine glycoprotein, on a human non-small-cell lung carcinoma. Zidane M, et al. **In Vivo** 1997 Mar–Apr;11(2):185–8

A phase II trial of radiochemotherapy with daily carboplatin, after induction chemotherapy (carboplatin and etoposide), in locally advanced nonsmall-cell lung cancer: final analysis. Bardet E, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):163–8

A pilot study of protracted low dose cisplatin and etoposide with concurrent thoracic radiotherapy in unresectable stage III nonsmall cell lung cancer. Blanke C, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):111–6

Randomized study of chemotherapy/radiation therapy combinations for favorable patients with locally advanced inoperable nonsmall cell lung cancer: Radiation Therapy Oncology Group (RTOG) 92–04. Komaki R, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):149–55

Concurrent daily carboplatin and accelerated hyperfractionated thoracic radiotherapy in locally advanced nonsmall cell lung cancer. Kunitoh H, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):103–9

Concurrent carboplatin, etoposide and thoracic radiation for poor-risk stage III non-small-cell lung carcinoma: a pilot study. Lau DH, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):157–61

Phase I–II trial of concomitant continuous carboplatin (CBDCA) infusion and radiotherapy in advanced nonsmall cell lung cancer with evaluation for surgery: final report. Trodella L, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):93–101

Phase II study of mitonafide in non-small cell lung cancer (NSCLC). Casado A, et al. **Invest New Drugs** 1996; 14(4):415–7

Phase I trial of intravenous carboplatin added to oral etoposide and oral cyclophosphamide for stage IV non-small cell lung cancer. Grunberg SM, et al. **Invest New Drugs** 1996;13(4):333–5

Phase I study of paclitaxel on a 3-hour schedule followed by carboplatin in untreated patients with stage IV non-small cell lung cancer. Rowinsky EK, et al. **Invest New Drugs** 1997;15(2):129–38

A phase II trial of a differentiating agent (tRA) with cisplatin–VP 16 chemotherapy in advanced non-small cell lung cancer. Thiruvengadam R, et al. **Invest New Drugs** 1996;14(4):395–401

A phase II trial of ilmofosine in non-small cell bronchogenic carcinoma. Woolley PV, et al. **Invest New Drugs** 1996; 14(2):219–22

Correlation of in vitro drug sensitivity testing results with response to chemotherapy and survival: comparison of non-small cell lung cancer and small cell lung cancer. Shaw GL, et al. **J Cell Biochem Suppl** 1996;24:173–85

Chemotherapy of non small cell lung cancer. A prospectively randomized study of cisplatin–etoposide versus cisplatin–mitomycin–vinblastine. Polyzos A, et al. **J Chemother** 1997 Apr;9(2):102–5

Vinorelbine chemotherapy in non small cell lung cancer: experience in elderly patients. Tononi A, et al. **J Chemother** 1997 Aug;9(4):304–8

Weekly gemcitabine with monthly cisplatin: effective chemotherapy for advanced non-small-cell lung cancer. Abratt RP, et al. **J Clin Oncol** 1997 Feb;15(2):744–9

Decision analysis in locally advanced non-small-cell lung cancer: is it useful? [see comments] Brundage MD, et al. **J Clin Oncol** 1997 Mar;15(3):873–83. Comment in: J Clin Oncol 1997 Mar;15(3):870–2.

Randomized trial of vinorelbine compared with fluorouracil plus leucovorin in patients with stage IV non-small-cell lung cancer [see comments] [published erratum appears in J Clin Oncol 1996 Dec;14(12):3175] Crawford J, et al. **J Clin Oncol** 1996 Oct;14(10):2774–84. Comment in: J Clin Oncol 1996 Oct;14(10):2627–30.

Cisplatin–gemcitabine combination in advanced non-small-cell lung cancer: a phase II study. Crinò L, et al. **J Clin Oncol** 1997 Jan;15(1):297–303

Maximum-tolerated dose defined for single-agent gemcitabine: a phase I dose-escalation study in chemotherapy-naive patients with advanced non-small-cell lung cancer. Fossella FV, et al. **J Clin Oncol** 1997 Jan;15(1):310–6

Weekly paclitaxel and cisplatin with concurrent radiotherapy in locally advanced non-small-cell lung cancer: a phase I study. Frasci G, et al. **J Clin Oncol** 1997 Apr; 15(4):1409–17

Paclitaxel by 96-hour continuous infusion in combination with cisplatin: a phase I trial in patients with advanced lung cancer. Georgiadis MS, et al. **J Clin Oncol** 1997 Feb; 15(2):735–43

Phase I study of vinorelbine and ifosfamide in advanced non-small-cell lung cancer. Masters GA, et al. **J Clin Oncol** 1997 Mar;15(3):884–92

Phase I trial of docetaxel and cisplatin in previously untreated patients with advanced non-small-cell lung cancer. Millward MJ, et al. **J Clin Oncol** 1997 Feb;15(2):750–8

Phase II study of irinotecan and etoposide in patients with metastatic non-small-cell lung cancer. Oshita F, et al. **J Clin Oncol** 1997 Jan;15(1):304–9

Gemcitabine versus the combination of cisplatin and etoposide in patients with inoperable non-small-cell lung cancer in a phase II randomized study. Perng RP, et al. **J Clin Oncol** 1997 May;15(5):2097–102

More is better but ... how is best: are milligrams over hours better than grams over minutes? The case of gemcitabine [letter; comment] Pollera CF. **J Clin Oncol** 1997 May; 15(5):2172–4. Comment on: J Clin Oncol 1996 May;14(5):1656–62.

Mutational activation of the K-ras oncogene and the effect of chemotherapy in advanced adenocarcinoma of the lung: a prospective study. Rodenhuis S, et al. **J Clin Oncol** 1997 Jan;15(1):285–91

Decision analysis in non-small-cell lung cancer: not back to the drawing modeling board, back to the bedside [editorial; comment] Smith TJ, et al. **J Clin Oncol** 1997 Mar;15(3):870–2. Comment on: J Clin Oncol 1997 Mar;15(3):873–83.

Intensified carboplatin regimen with GM-CSF support in non-small cell lung cancer (NSCLC). A Hellenic Co-operative Oncology Group Study (HeCOG). Nicolaides C, et al. **J Exp Clin Cancer Res** 1997 Mar; 16(1):91–4

Continuous infusion cisplatin and 5-fluorouracil with bolus vinorelbine in the treatment of advanced nonsmall cell carcinoma of the lung. Beuzeboc P, et al. **J Infus Chemother** 1995 Fall;5(4):193–4

Combined chemoradiation for locally advanced nonsmall cell lung cancer. Dubray B, et al. **J Infus Chemother** 1995 Fall; 5(4):195–6

Interferon-alpha inhibits CFU-GM mobilization following chemotherapy and G-CSF administration. Ballarino P, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):953–6

Dose-escalation study of oral etoposide and carboplatin in patients with advanced lung cancer. Atagi S, et al. **Jpn J Clin Oncol** 1996 Oct;26(5):316–21

Chemotherapy for lung cancer [letter] Papac RJ. **Lancet** 1997 Sep 20;350(9081):888

Prognostic factors for response to chemotherapy containing platinum derivatives in patients with unresectable non-small cell lung cancer. (NSCLC). Borges M, et al. **Lung Cancer** 1996 Dec;16(1):21–33

Multicenter Phase II trial of intermediate dose cisplatin and vinorelbine in inoperable non-small cell lung cancer patients. Bretti S, et al. **Lung Cancer** 1996 Jun; 14(2–3):353–60

Efficacy of platinum-based regimens in non-small cell lung cancer. A negative report from the Cuneo Lung Cancer Study Group. Buccheri G, et al. **Lung Cancer** 1997 Aug; 18(1):57–70

Modified weekly regimen with vinorelbine as a single agent in unresectable non-small cell lung cancer. Carrato A, et al. **Lung Cancer** 1997 Jul;17(2–3):261–9

Partial substitution of cisplatin with carboplatin in combination with etoposide in advanced non-small cell lung cancer (NSCLC): a multicentric randomised phase II trial. Comella P, et al. **Lung Cancer** 1996 Aug; 15(1):103–14

Neoadjuvant therapy for surgically staged IIIA N2 non-small cell lung cancer (NSCLC). Elias AD, et al. **Lung Cancer** 1997 May;17(1):147–61

Phase II study of a one hour paclitaxel infusion in combination with carboplatin for advanced non-small cell lung cancer. Evans WK, et al. **Lung Cancer** 1997 Aug; 18(1):83–94

r-metHuG-CSF support to ifosfamide, cisplatin, etoposide chemotherapy in non-small cell lung cancer. Gautier V, et al. **Lung Cancer** 1996 Jun;14(2–3):343–51

A randomized phase II study of ifosfamide/mesna/cisplatin plus G-CSF or etoposide/cisplatin plus G-CSF in advanced non-small cell lung cancer: a Cancer and Leukemia Group B study. Graziano SL, et al. **Lung Cancer** 1996 Jun;14(2–3):315–29

Intensity of neoadjuvant therapy in resectable non-small cell lung cancer. Green MR, et al. **Lung Cancer** 1997 Jun;17 Suppl 1:S111–9 (14 ref.)

Histopathological grading of response to induction chemotherapy in non-small cell lung cancer: a preliminary study. Milano S, et al. **Lung Cancer** 1996 Sep;15(2):183–7

Vinorelbine and ifosfamide for unresectable non-small cell lung cancer. Morere JF, et al. **Lung Cancer** 1997 Aug; 18(1):95–100

Etoposide (VP-16) and cisplatin at maximum tolerated dose in non-small cell lung carcinoma: a Cancer and Leukemia Group B study. Muscato JJ, et al. **Lung Cancer** 1995 Dec; 13(3):285–94

Hyperfractionated radiotherapy and concomitant cisplatin in stage III non-small cell lung cancer: a phase II study by the AIRO-Lombardia Cooperative Group. Palazzi M, et al. **Lung Cancer** 1996 Aug;15(1):85–91

Ifosfamide combined with toremifene in the treatment of non-small cell lung cancer. Salomaa ER, et al. **Lung Cancer** 1996 Dec;16(1):75–80

Paclitaxel plus hydroxyurea as second line therapy for non-small cell lung cancer. Stewart DJ, et al. **Lung Cancer** 1996 Aug;15(1):115–23

Carboplatin as radiosensitizer in non-small cell lung cancer after cisplatin containing chemotherapy. A phase I study of a groupe francais de pneumo-cancerologie (G.F.P.C.). Thomas P, et al. **Lung Cancer** 1997 Aug;18(1):71–81

Advanced non-small cell lung cancer (ANSCLC): new chemotherapy phase II studies and old faults [letter] Tummarello D, et al. **Lung Cancer** 1996 Nov;15(3):375–6

Combination chemotherapy with vindesine–ifosfamide–cisplatin (VIP) in locally advanced unresectable stage III and in stage IV non-small cell lung cancer: a phase II trial. Vansteenkiste J, et al. **Lung Cancer** 1995 Dec;13(3):295–303

Etoposide and doxorubicin antagonize the in vitro activity of paclitaxel in human non-small cell lung cancer cell lines. Viallet J, et al. **Lung Cancer** 1996 Aug;15(1):93–101

Phase II study of alternating doses of vinorelbine in combination with cisplatin for non-small cell lung cancer (NSCLC): a disappointing experience. Westeel V, et al. **Lung Cancer** 1996 Dec;16(1):61–73

Recent advances in managing non-small-cell lung cancer: 4. Chemotherapy of metastatic cancer. Clarke SJ, et al. **Med J Aust** 1997 Jun 2;166 Suppl:S14–6

The cost-effectiveness of four cisplatin-containing chemotherapy regimens in the treatment of stages III B and IV non-small cell lung cancer: an Italian perspective [letter; comment] Berdeaux G, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):305–6. Comment on: Monaldi Arch Chest Dis 1996 Aug;51(4):279–88.

Intrapleural administration of recombinant interleukin-2 in non-small cell lung cancer with neoplastic pleural effusion. Masotti A, et al. **Monaldi Arch Chest Dis** 1997 Jun; 52(3):225–8

Hyperfractionated radiotherapy combined with simultaneous chemotherapy in inoperable non-small cell lung cancer: a pilot study. Özkök S, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):443–7

The cost-effectiveness of four cisplatin-containing chemotherapy regimens in the treatment of stages III B and IV non-small cell lung cancer: an Italian perspective [see comments] Palmer AJ, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):279–88. Comment in: Monaldi Arch Chest Dis 1997 Jun;52(3):305–6.

Chemotherapy of non-small cell lung cancer. Scagliotti GV, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):287–95 (75 ref.)

Chemotherapy helps patients with advanced non-small cell carcinoma of the lung. Socinski MA, et al. **N C Med J** 1996 Sep–Oct;57(5):281–6 (30 ref.)

Effects of polyethylene glycol-conjugated recombinant human megakaryocyte growth and development factor on platelet counts after chemotherapy for lung cancer [see comments] Fanucchi M, et al. **N Engl J Med** 1997 Feb 6;336(6):404–9. Comment in: N Engl J Med 1997 Feb 6;336(6):434–6.

Novel retinoid-related molecules as apoptosis inducers and effective inhibitors of human lung cancer cells in vivo. Lu XP, et al. **Nat Med** 1997 Jun;3(6):686–90

Chemotherapy for advanced non-small cell lung cancer. Ichinose Y, et al. **Natl Med J India** 1996 Jan–Feb;9(1):24–5

Experience of Oncopaz Cooperative Group with oral fluoropyrimidines in tumors of the stomach, lung, head and neck, and breast. Feliu J, et al. **Oncology** 1997;54 Suppl 1:30–7

Suramin inhibits the growth of non-small-cell lung cancer cells that express the epidermal growth factor receptor. Fujiuchi S, et al. **Oncology** 1997 Mar–Apr;54(2):134–40

Phase II study of 3-hour infusion of paclitaxel in patients with previously untreated stage III and IV non-small cell lung cancer. West Japan Lung Cancer Group. Furuse K, et al. **Oncology** 1997 Jul–Aug;54(4):298–303

Gemcitabine shows promise as combination agent in NSCLC. **Oncology (Huntingt)** 1996 Sep;10(9):1311

Pilot study points to possibly improved survival in NSCLC with simultaneous chemo/RT [news] **Oncology (Huntingt)** 1996 Mar;10(3):416–7

Cisplatin/etoposide vs paclitaxel/cisplatin/G-CSF vs paclitaxel/cisplatin in non-small-cell lung cancer. Bonomi P, et al. **Oncology (Huntingt)** 1997 Apr;11(4 Suppl 3):9–10

Cisplatin/paclitaxel vs cisplatin/teniposide for advanced non-small-cell lung cancer. The EORTC Lung Cancer Cooperative Group. The European Organization for Research and Treatment of Cancer. Giaccone G, et al. **Oncology (Huntingt)** 1997 Apr;11(4 Suppl 3):11–4

Integration of vinorelbine into chemotherapy strategies for non-small-cell lung cancer. Vokes EE. **Oncology (Huntingt)** 1995 Jun;9(6):565–74, 577; discussion 577–8, 581– (106 ref.)

Chemotherapy for advanced lung cancer. When to expect a response. Midthun DE, et al. **Postgrad Med** 1997 Mar; 101(3):187–8, 191–2, 194 passim (20 ref.)

Phase II study of weekly gemcitabine in advanced non-small cell lung cancer. Halme M, et al. **Respir Med** 1997 Aug; 91(7):423–6

Evaluation of response to chemotherapy in patients affected with non-small cell lung cancer by means of three tumour markers elaborated by discriminant analysis. Paone G, et al. **Respir Med** 1997 Jul;91(6):361–7

The Fox Chase Cancer Center and Free University Hospital Investigators' Workshop and Consensus Conference on Paclitaxel. Part 1: Lung Cancer. Puerto Rico, March 12–16, 1997. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–1–S12–162; quiz S12–163–S12–173 (0 ref.)

Weekly gemcitabine and monthly cisplatin for advanced non-small cell lung carcinoma. Abratt RP, et al. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8–18–S8–23

Weekly paclitaxel in patients with advanced lung cancer:

preliminary data from a phase II trial. Akerley W, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-10-S12-13

Phase I/II trial of weekly paclitaxel in patients with advanced lung cancer. Akerley W. Semin Oncol 1996 Dec;23(6 Suppl 16):55-8

Preliminary results of a phase I study of weekly paclitaxel infusion in patients with non-small cell lung cancer. Akerley W 3rd, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):14-8

Paclitaxel and carboplatin in metastatic non-small cell lung cancer: preliminary results of a phase I study. Belani CP, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):19-21

The emerging role of gemcitabine in lung cancer: part I [editorial] Bunn PA Jr. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7-1

The North American experience with paclitaxel combined with cisplatin or carboplatin in lung cancer. Bunn PA Jr. **Semin Oncol** 1996 Dec;23(6 Suppl 16):18-25 (34 ref.)

Combination paclitaxel and platinum in the treatment of lung cancer: US experience. Bunn PA Jr. **Semin Oncol** 1996 Dec;23(6 Suppl 15):9-15 (29 ref.)

A phase I study of gemcitabine and carboplatin in non-small cell lung cancer. Carmichael J, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 10):55-9

Non-small cell lung cancer: slow but definite progress. Carney DN. **Semin Oncol** 1996 Dec;23(6 Suppl 16):5-6

Chemotherapy in the management of patients with inoperable non-small cell lung cancer. Carney DN. **Semin Oncol** 1996 Dec;23(6 Suppl 16):71-5 (59 ref.)

Preliminary analysis of a phase II study of paclitaxel, carboplatin, and hyperfractionated radiation therapy for locally advanced inoperable non-small cell lung cancer. Choy H, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-21-S12-26

Weekly paclitaxel/cisplatin with concurrent radiotherapy in patients with locally advanced non-small cell lung cancer: a phase I study. Comella G, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 12):S12-113-S12-116

Economic value of gemcitabine in non-small cell lung cancer. Copley-Merriman C, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 10):90-8 (15 ref.)

Paclitaxel by either 1-hour or 24-hour infusion in combination with carboplatin in advanced non-small cell lung cancer: preliminary results comparing sequential phase II trials. DeVore RF 3rd, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 12):S12-27-S12-29

The development of docetaxel (Taxotere) in non-small cell lung cancer--docetaxel in new combinations and new schedules: an overview of ongoing and future developments. Donnellan PP, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 14):S14-18-S14-21

Phase II trial of gemcitabine plus cisplatin in non-small cell lung cancer: a Hoosier Oncology Group study. Einhorn LH. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-24-S8-26

An estimate of the cost effectiveness of gemcitabine in stage IV non-small cell lung cancer. Evans WK. **Semin Oncol** 1996 Oct;23(5 Suppl 10):82-9

Management strategies for recurrent non-small cell lung cancer. Fossella FV, et al. **Semin Oncol** 1997 Aug; 24(4):455-62 (54 ref.)

Phase II studies of gemcitabine for non-small cell lung cancer in Japan. Fukuoka M, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7-42-S7-46

A phase II trial of gemcitabine and ifosfamide in non-small cell lung cancer. Gatzemeier U, et al. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-36-S8-38

Single-agent paclitaxel as a 3-hour infusion. Gatzemeier U, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):94-7

Docetaxel (Taxotere) and vinorelbine in the treatment of non-small cell lung cancer. Georgoulias V, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 14):S14-9-S14-14

Docetaxel (Taxotere) and gemcitabine in the treatment of non-small cell lung cancer: preliminary results. Georgoulias V, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 14):S14-22-S14-25

Second-line treatment of advanced non-small cell lung cancer with paclitaxel and gemcitabine: a preliminary report on an active regimen. Georgoulias V, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-61-S12-66

Paclitaxel (1-hour infusion) plus carboplatin in the treatment of advanced non-small cell lung cancer: results of a multicenter phase II trial. Greco FA, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-14-S12-17

One-hour paclitaxel in the treatment of non-small cell lung cancer. Hainsworth JD, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):98-101

Efficacy of single-agent gemcitabine in advanced non-small cell lung cancer: a review. Hansen HH, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7-38-S7-41 (15 ref.)

The role of docetaxel (Taxotere) as a single agent or in combination before local treatment of non-small cell lung cancer. Harper P. **Semin Oncol** 1997 Aug;24(4 Suppl 14):S14-30-S14-32

Paclitaxel plus carboplatin in the treatment of patients with advanced lung cancer: a Vanderbilt University Cancer Center phase II trial (LUN-46). Johnson DH, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):42-6

Paclitaxel and carboplatin in inoperable non-small cell lung cancer. Kosmidis P, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):68-70

Paclitaxel and carboplatin in nonoperable non-small cell lung cancer. Kosmidis P, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):16-8

Paclitaxel (175 mg/m2) plus carboplatin versus paclitaxel (225 mg/m2) plus carboplatin in non-small cell lung cancer: a randomized study. Kosmidis P, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-30-S12-33

The development of docetaxel (Taxotere) in non-small cell lung cancer. Kris MG, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 14):S14-1-S14-4

Paclitaxel (1-hour) and carboplatin (area under the concentration-time curve 7.5) in advanced non-small cell lung cancer: a phase II study of the Fox Chase Cancer Center and its network. Langer CJ, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-81-S12-88

Induction paclitaxel and carboplatin followed by concurrent chemoradiotherapy in patients with unresectable, locally advanced non-small cell lung carcinoma: report of Fox Chase Cancer Center study 94-001. Langer CJ, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-89-S12-95

Combination paclitaxel (1-hour) and carboplatin (AUC 7.5) in advanced non-small cell lung cancer: a phase II study by the Fox Chase Cancer Center Network. Langer CJ, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):35-41

Chemoradiotherapy for poor-risk stage III non-small cell lung cancer. Lau DH, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-110-S12-112

Twice-weekly paclitaxel and radiation for stage III non-small cell lung cancer. Lau DH, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-106-S12-109

Single-agent gemcitabine in non-small cell lung cancer: the French experience. Le Chevalier T, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7-47-S7-49

Single-agent activity of gemcitabine in advanced non-small cell lung cancer. Le Chevalier T. **Semin Oncol** 1996 Oct; 23(5 Suppl 10):36-42 (23 ref.)

Paclitaxel/carboplatin chemotherapy as primary treatment of brain metastases in non-small cell lung cancer: a preliminary report. Lee JS, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 12):S12-52-S12-55

A randomized study of gemcitabine monotherapy versus etoposide/cisplatin in the treatment of locally advanced or metastatic non-small cell lung cancer. Manegold C, et al. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-13-S8-17

Paclitaxel and radiotherapy in the treatment of advanced non-small cell lung cancer. Marangolo M, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):31-4

Combination treatment with docetaxel (Taxotere) and platinum compounds for non-small cell lung cancer. Mattson K, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 14):S14-5-S14-8

Docetaxel (Taxotere) and vinorelbine in the treatment of advanced non-small cell lung cancer: preliminary results of a phase I/II trial. Miller VA. **Semin Oncol** 1997 Aug; 24(4 Suppl 14):S14-15-S14-17

Preliminary results of a phase I/II clinical trial of paclitaxel and carboplatin in non-small cell lung cancer. Natale RB. **Semin Oncol** 1996 Dec;23(6 Suppl 16):51-4

Preliminary results of a phase I/II clinical trial of paclitaxel and carboplatin in non-small cell lung cancer. Natale RB. **Semin Oncol** 1996 Oct;23(5 Suppl 12):2-6

Overview of current and future chemotherapeutic agents in non-small cell lung cancer. Natale RB. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7-29-S7-37 (59 ref.)

A phase II study evaluating the efficacy of carboplatin, etoposide, and paclitaxel with granulocyte colony-stimulating factor in patients with stage IIIB and IV non-small cell lung cancer and extensive small cell lung cancer. Neill HB, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-130-S12-134

Paclitaxel and carboplatin: a phase I study in advanced non-small cell lung cancer. Paccagnella A, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):76-9

Preliminary results of neoadjuvant paclitaxel and carboplatin in the treatment of early stage non-small cell lung cancer. Palackdharry CS, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-34-S12-36

Phase I studies of gemcitabine combined with carboplatin or paclitaxel. Pedersen AG. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7-64-S7-68

Induction paclitaxel/carboplatin in early stage non-small cell lung cancer. Bimodality Lung Oncology Team. Pisters KM, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-41-S12-44

Results of the phase II EORTC study comparing paclitaxel/cisplatin with teniposide/cisplatin in patients with non-small cell lung cancer. EORTC Lung Cancer Cooperative Group. Postmus PE, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):10-3

Chemotherapy for advanced non-small cell lung cancer: past, present, and future. Ramanathan RK, et al. **Semin Oncol** 1997 Aug;24(4):440-54 (132 ref.)

Single-agent paclitaxel in advanced non-small cell lung cancer: single-center phase II study using a 3-hour administration schedule. Ranson MR, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-6-S12-9

A sequence-dependent paclitaxel/etoposide phase II trial in patients with non-small cell lung cancer. Rosell R, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-56-S12-60

Seven-week continuous-infusion paclitaxel plus concurrent radiation therapy for locally advanced non-small cell lung cancer: a phase I study. Rosenthal DI, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-96-S12-100

Paclitaxel (3-hour infusion) followed by carboplatin (24 hours after paclitaxel): a phase II study in advanced non-small cell lung cancer. Roychowdhury DF, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-37-S12-40

Preoperative paclitaxel plus carboplatin for patients with intermediate-risk non-small cell lung cancer. Ruckdeschel JC. **Semin Oncol** 1996 Dec;23(6 Suppl 16):62-7 (65 ref.)

Preliminary results of a dose-finding study of paclitaxel and carboplatin in patients with advanced non-small cell lung cancer. Scagliotti GV, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):80-3

Phase I dose-escalation trial of paclitaxel and ifosfamide in patients with advanced non-small cell lung cancer. Shepherd FA, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):84-90

Phase II trial of gemcitabine and weekly cisplatin for advanced non-small cell lung cancer. Shepherd FA, et al. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-27-S8-30

Final results of the Canadian phase I dose escalation trial of gemcitabine and cisplatin for advanced non-small cell lung cancer. Shepherd FA, et al. **Semin Oncol** 1996 Oct; 23(5 Suppl 10):48-54

Gemcitabine in the treatment of elderly patients with advanced non-small cell lung cancer. Shepherd FA, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7-50-S7-55

Induction therapy with carboplatin/paclitaxel followed by concurrent carboplatin/paclitaxel and dose-escalating conformal radiotherapy in the treatment of locally advanced, unresectable non-small cell lung cancer: preliminary report of a phase I trial. Socinski MA, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-117-S12-122

High-dose therapy with carboplatin and paclitaxel in non-small cell lung cancer. Socinski MA, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-45-S12-51 (51 ref.)

Preliminary results of a phase II study of paclitaxel and cisplatin in patients with non-small cell lung cancer. Sørensen JB, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-18-S12-20

Paclitaxel and carboplatin as neoadjuvant chemotherapy in operable (stage I and II) and locally advanced (stage IIIA-N2) non-small cell lung cancer. Splinter TA. **Semin Oncol** 1996 Dec;23(6 Suppl 16):59-61

Phase I/II study of gemcitabine and cisplatin in the treatment of advanced non-small cell lung cancer: preliminary results. Steward WP, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 10):43-7

Ifosfamide/carboplatin/etoposide/paclitaxel in advanced lung cancer: update and preliminary survival analysis. Strauss GM, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-73-S12-80

Gemcitabine: symptomatic benefit in advanced non-small cell lung cancer. Thatcher N, et al. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-6-S8-12 (37 ref.)

Rationale of a phase III study comparing a standard cisplatin regimen (mitomycin/ifosfamide/cisplatin) with cisplatin and gemcitabine in non-small cell lung cancer. Tonato M, et al. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-31-S8-35

Clinical pharmacology of carboplatin administered in combination with paclitaxel. van Warmerdam LJ, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-97-S2-104

Simultaneous radiochemotherapy with paclitaxel in non-small cell lung cancer: a clinical phase I study. Vogt HG, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):26-30

Paclitaxel/carboplatin plus ifosfamide in non-small cell lung cancer. Vokes EE, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-67-S12-69

Clinical studies of docetaxel (Taxotere) and concomitant chest therapy. Vokes EE, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 14):S14-26-S14-29

Investigations of new drugs in combination with cisplatin in stage III non-small cell lung cancer. Vokes EE, et al. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-42-S8-45 (24 ref.)

Phase II study of paclitaxel and cisplatin in patients with non-small cell lung cancer. von Pawel J, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):47-50

Paclitaxel and cisplatin in patients with non-small cell lung cancer: results of a phase II trial. von Pawel J, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):7-9

Paclitaxel, ifosfamide, and carboplatin for the treatment of stages IIIB and IV non-small cell lung cancer: preliminary results. Zaniboni A, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-70-S12-72

The role of chemotherapy in the treatment of non-small cell carcinoma of the lung. Treat J, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):90-100 (43 ref.)

[A study on treatment of lung cancer by combined therapy of traditional Chinese medicine and chemotherapy] Li JH. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):136-8 (Eng. Abstr.) **(Chi)**

[A phase II multicenter study of gemcitabine in non small cell lung cancers] Le Chevalier T, et al. **Bull Cancer** 1997 Mar;84(3):282-8 (Eng. Abstr.) **(Fre)**

[Induction chemotherapy followed by concomitant combined radiotherapy and chemotherapy in stage III non-small cell bronchial carcinoma] Bouillet T, et al. **Cancer Radiother** 1997;1(2):121-31 (39 ref.) (Eng. Abstr.) **(Fre)**

[Chemotherapy of non-small-cell lung cancers] Le Chevalier T. **Presse Med** 1996 Nov 16;25(35):1699-703 (16 ref.) (Eng. Abstr.) **(Fre)**

[Second line chemotherapy in patients with refractory and resistant non small cell lung cancer] Jacoulet P, et al. **Rev Mal Respir** 1997 Jan;14(1):29-35 (Eng. Abstr.) **(Fre)**

[Chemotherapy in elderly patients with bronchogenic cancers] Souquet PJ, et al. **Rev Mal Respir** 1996; 13(4):327–33 (55 ref.) (Eng. Abstr.) **(Fre)**

[Treatment of broncho-pulmonary cancer using carboplatin/etoposide: survival analysis] Skaventzos I, et al. **Rev Med Liege** 1996 Nov;51(11):718–20 **(Fre)**

[Taxol in bronchial carcinoma] Gatzemeier U. **Med Klin** 1996 Dec 15;91 Suppl 2:1–6 (41 ref.) **(Ger)**

[What is effective in non-small cell lung carcinoma? (news)] **Pneumologie** 1996 Jun;50(6):X **(Ger)**

[Effectiveness and hematotoxicity of paclitaxel monotherapy in patients with advanced non-small cell bronchial carcinoma (NSCLC)] Leutz M, et al. **Pneumologie** 1997 Jan;51(1):62–5 (Eng. Abstr.) **(Ger)**

[Improved survival through simultaneous radiochemotherapy versus radiotherapy alone in stage III of non-small-cell bronchial carcinoma] Rübe C. **Strahlenther Onkol** 1997 Apr;173(4):239–40 **(Ger)**

[Prolonged oral etoposide therapy in advanced stage lung cancer] Bozóky G, et al. **Orv Hetil** 1997 Jul 13; 138(28):1791–5 (31 ref.) (Eng. Abstr.) **(Hun)**

[A study of combination chemotherapy using, 5-FU and CDDP in patients with advanced non-small cell lung cancer] Egusa Y, et al. **Gan To Kagaku Ryoho** 1996 Dec; 23(14):1997–2000 **(Jpn)**

[Phase I study of cisplatin, ifosfamide and CPT11 with granulocyte colony-stimulating factor support in advanced non-small cell lung cancer] Fujita A, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(10):1285–90 (Eng. Abstr.) **(Jpn)**

[Late phase II study of LY188011 (gemcitabine hydrochloride) in patient with non-small-cell lung cancer. Gemcitabine Late Phase II Cooperative Study Group A)] Fukuoka M, et al. **Gan To Kagaku Ryoho** 1996 Nov; 23(13):1825–32 (Eng. Abstr.) **(Jpn)**

[Adjuvant chemotherapy for non-small cell lung cancer] Otake Y, et al. **Gan To Kagaku Ryoho** 1997 Aug; 24(10):1245–51 (Eng. Abstr.) **(Jpn)**

[Phase II study of combination chemotherapy with cisplatin, carboplatin and etoposide (CPVP) in unresectable non-small cell lung cancer: analysis of survival time and prognostic factors] Sakurai M, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):303–8 (Eng. Abstr.) **(Jpn)**

[Administration of oral etoposide for one year as adjuvant chemotherapy for non-small cell lung cancer-side effect] Uchida T, et al. **Gan To Kagaku Ryoho** 1996 Dec; 23(14):1967–70 (Eng. Abstr.) **(Jpn)**

[A late phase II study of LY188011 (Gemcitabine hydrochloride) in patients with non-small-cell lung cancer. Gemcitabine Cooperative Study Group B for Late Phase II] Yokoyama A, et al. **Gan To Kagaku Ryoho** 1996 Oct; 23(12):1681–8 (Eng. Abstr.) **(Jpn)**

[Chemotherapy in non-small cell lung cancer] Shimokata K. **Nippon Geka Gakkai Zasshi** 1997 Jan;98(1):41–5 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Efficacy of neoadjuvant chemotherapy in primary non-small cell lung cancer] Ishihama H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):319–21 **(Jpn)**

[Early phase II study of oral administration of etoposide for 21 consecutive days in patients with non-small-cell lung cancer] Hayasaka S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1367–1371 (Eng. Abstr.) **(Jpn)**

[Effect of timing of granulocyte-colony stimulating factor administration on leukopenia induced by systemic chemotherapy in patients with non-small-cell lung cancer--multi-center randomized crossover study] Katakami N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):520–8 (Eng. Abstr.) **(Jpn)**

[Chemotherapy for non-small cell lung cancer] Shinkai T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:92–8 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Lung cancer: progress in diagnosis and treatment. IV. Related topics: 2. Macrolides as biological response modifiers for the treatment of lung cancer] Mikasa K, et al. **Nippon Naika Gakkai Zasshi** 1997 Jan 10;86(1):100–7 **(Jpn)**

[Early results of chemotherapy in patients with non-small cell lung cancer] Zukowska H, et al. **Pneumonol Alergol Pol** 1996;64(11–12):774–9 (Eng. Abstr.) **(Pol)**

[Long-term oral administration of etoposide in the treatment of patients with advanced non-small-cell carcinoma of the lung. The second phase of a clinical study] Jeremić B, et al. **Srp Arh Celok Lek** 1996 Mar-Apr;124(3–4):65–8 (Eng. Abstr.) **(Scc)**

[Effects, possibilities and limits. Cytostatic therapy of small cell and non-small cell lung cancer] Bergman B. **Lakartidningen** 1997 Apr 30;94(18):1702, 1707–10 (17 ref.) **(Swe)**

ECONOMICS

Cost of combined modality interventions for stage III non-small-cell lung cancer [see comments] Evans WK, et al. **J Clin Oncol** 1997 Sep;15(9):3038–48. Comment in: J Clin Oncol 1997 Sep;15(9):3027–9.

The cost-effectiveness of four cisplatin-containing chemotherapy regimens in the treatment of stages III B and IV non-small cell lung cancer: an Italian perspective [see comments] Palmer AJ, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):279–88. Comment in: Monaldi Arch Chest Dis 1997 Jun;52(3):305–6.

Cost-effectiveness of gemcitabine in stage IV non-small cell lung cancer: an estimate using the Population Health Model lung cancer module. Evans WK. **Semin Oncol** 1997 Apr; 24(2 Suppl 7):S7-56–S7-63

ENZYMOLOGY

Antitumor effects of butyrolactone I, a selective cdc2 kinase inhibitor, on human lung cancer cell lines. Nishio K, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3387–95

Cytochrome P450 2E1 polymorphism as a risk factor for lung cancer: in relation to p53 gene mutation. Oyama T, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):583–7

DT-diaphorase and cytochrome B5 reductase in human lung and breast tumours. Marin A, et al. **Br J Cancer** 1997; 76(7):923–9

alpha-2,3-Sialyltransferase type 3N and alpha-1,3-fucosyltransferase type VII are related to sialyl Lewis(x) synthesis and patient survival from lung carcinoma. Ogawa JI, et al. **Cancer** 1997 May 1; 79(9):1678–85

Carboxypeptidase M. Variable expression in normal human lung and inactivation in lung cancer. Cohen AJ, et al. **Chest** 1997 Jun;111(6 Suppl):149S

Gene mutation analysis and quantitation of DNA topoisomerase I in previously untreated non-small cell lung carcinomas. Takatani H, et al. **Jpn J Cancer Res** 1997 Feb; 88(2):160–5

Prognostic significance of polo-like kinase (PLK) expression in non-small cell lung cancer. Wolf G, et al. **Oncogene** 1997 Feb 6;14(5):543–9

EPIDEMIOLOGY

International differences in epidemiology of lung adenocarcinoma. Charloux A, et al. **Lung Cancer** 1997 Mar; 16(2–3):133–43

Second primary lung cancer in Flanders: frequency, clinical presentation, treatment and prognosis. Van Meerbeeck J, et al. **Lung Cancer** 1996 Nov;15(3):281–95

Lung cancer in patients with HIV-infection. Vyzula R, et al. **Lung Cancer** 1996 Nov;15(3):325–39

ETHNOLOGY

Analysis of L-myc and GSTM1 genotypes in Chinese non-small cell lung carcinoma patients. Ge H, et al. **Lung Cancer** 1996 Nov;15(3):355–66

GENETICS

Non-small cell lung cancer. Morphology and DNA flow cytometry. Desinan L, et al. **Anal Quant Cytol Histol** 1996 Dec;18(6):438–52

Immunohistochemical analysis of nm23-H1 in stage I non-small cell lung cancer: a useful marker in prediction of metastases. Lai WW, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1500–4

The clinical role of MDR1 gene expression in human lung cancer. Oka M, et al. **Anticancer Res** 1997 Jan-Feb; 17(1B):721–4

Cytochrome P450 2E1 polymorphism as a risk factor for lung cancer: in relation to p53 gene mutation. Oyama T, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):583–7

Abnormal expression of CCND1 and RB1 in resection margin epithelia of lung cancer patients. Betticher DC, et al. **Br J Cancer** 1997;75(12):1761–8

Fractional allele loss data indicate distinct genetic populations in the development of non-small-cell lung cancer. Field JK, et al. **Br J Cancer** 1996 Dec;74(12):1968–74

MYCL genotypes and loss of heterozygosity in non-small-cell lung cancer. Fong KM, et al. **Br J Cancer** 1996 Dec;74(12):1975–8

K-ras and p53 mutations are an independent unfavourable prognostic indicator in patients with non-small-cell lung cancer. Fukuyama Y, et al. **Br J Cancer** 1997;75(8):1125–30

p53 gene aberrations in non-small-cell lung carcinomas from a smoking population. Liloglou T, et al. **Br J Cancer** 1997; 75(8):1119–24

Prognostic value of replication errors on chromosomes 2p and 3p in non-small-cell lung cancer. Pifarré A, et al. **Br J Cancer** 1997;75(2):184–9

Codon 12 Ki-ras mutation in non-small-cell lung cancer: comparative evaluation in tumoural and non-tumoural lung. Urban T, et al. **Br J Cancer** 1996 Oct;74(7):1051–5

p53 exon 5 mutations as a prognostic indicator of shortened survival in non-small-cell lung cancer. Vega FJ, et al. **Br J Cancer** 1997;76(1):44–51

Correlation between K-ras gene mutation and prognosis of patients with nonsmall cell lung carcinoma. Cho JY, et al. **Cancer** 1997 Feb 1;79(3):462–7

Cytogenetics of non-small cell lung cancer: simple technique for obtaining high quality chromosomes by fine needle aspirate cultures. Sundareshan TS, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):53–60

Comparative genomic hybridization analysis detects frequent, often high-level, overrepresentation of DNA sequences at 3q, 5p, 7p, and 8q in human non-small cell lung carcinomas. Balsara BR, et al. **Cancer Res** 1997 Jun 1;57(11):2116–20

Molecular analysis of the FHIT gene at 3p14.2 in lung cancer cell lines. Yanagisawa K, et al. **Cancer Res** 1996 Dec 15; 56(24):5579–82

Macrophage colony-stimulating factor gene transduction into human lung cancer cells differentially regulates metastasis formations in various organ microenvironments of natural killer cell-depleted SCID mice. Yano S, et al. **Cancer Res** 1997 Feb 15;57(4):784–90

Distribution of p53 and K-ras mutations in human lung cancer tissues. Gao HG, et al. **Carcinogenesis** 1997 Mar; 18(3):473–8

Influence of a mutation reducing the catalytic activity of the cytochrome P450 CYP2D6 on lung cancer susceptibility. Legrand M, et al. **Carcinogenesis** 1996 Oct; 17(10):2267–9

Infrequent mutations of the transforming growth factor beta-type II receptor gene at chromosome 3p22 in human lung cancers with chromosome 3p deletions. Tani M, et al. **Carcinogenesis** 1997 May;18(5):1119–21

Neuroendocrine tumors of the lung. Pathology and molecular biology. Vuitch F, et al. **Chest Surg Clin N Am** 1997 Feb; 7(1):21–47 (79 ref.)

Isolation of 45 exon-like fragments from 8p22-->p21.3, a region that is commonly deleted in hepatocellular, colorectal, and non-small cell lung carcinomas. Chinen K, et al. **Cytogenet Cell Genet** 1996;75(2–3):190–6

Comparative allelotype of early and advanced stage non-small cell lung carcinomas. Shiseki M, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):71–7

Frequent loss of heterozygosity in early non-small cell lung cancers at chromosome 9p21 proximal to the CDKN2a gene. Mead LJ, et al. **Int J Cancer** 1997 Apr 10;71(2):213–7

Reduced survival in patients with stage-I non-small-cell lung cancer associated with DNA-replication errors. Rosell R, et al. **Int J Cancer** 1997 Jun 20;74(3):330–4

Deletion of three distinct regions on chromosome 13q in human non-small-cell lung cancer. Tamura K, et al. **Int J Cancer** 1997 Feb 20;74(1):45–9

Expression in human lung cancer cell lines of genes of prohormone processing and the neuroendocrine phenotype. Vos MD, et al. **J Cell Biochem Suppl** 1996;24:257–68

Prognostic value of the expression of p53, bcl-2, and bax oncoproteins, and neovascularization in patients with radically resected non-small-cell lung cancer. Apolinario RM, et al. **J Clin Oncol** 1997 Jun;15(6):2456–66

Mutational activation of the K-ras oncogene and the effect of chemotherapy in advanced adenocarcinoma of the lung: a prospective study. Rodenhuis S, et al. **J Clin Oncol** 1997 Jan;15(1):285–91

Detection of k-ras point mutations in codons 12 and 13 in non-small cell lung cancers. Hsu NY, et al. **J Formos Med Assoc** 1996 Oct;95(10):741–5

Retinoic acid receptor expression abnormalities in lung cancer: important clues or major obstacles? [editorial; comment] Minna JD, et al. **J Natl Cancer Inst** 1997 May 7;89(9):602–4 (42 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):624–9.

Loss of heterozygosity at 5q21 in non-small cell lung cancer: a frequent event but without evidence of apc mutation. Cooper CA, et al. **J Pathol** 1996 Sep;180(1):33–7

Alterations of P16 (MTS1) in node-positive non-small cell lung carcinomas. Marchetti A, et al. **J Pathol** 1997 Feb; 181(2):178–82

DNA ploidy and proliferative activity in bcl-2 expressed non-small cell lung cancer. Kim YC, et al. **Korean J Intern Med** 1996 Jun;11(2):101–7

Chromosomal 11 alterations in non-small-cell lung carcinomas in Hong Kong. Chan AS, et al. **Lung Cancer** 1996 Aug;15(1):51–65

Prognostic value of flow cytometric DNA analysis in non-small-cell lung cancer: rationale of sequential processing of frozen and paraffin-embedded tissue. Mugüerza JM, et al. **World J Surg** 1997 Mar-Apr; 21(3):323–9

[A study on p53 gene mutation, protein expression and relationship with clinico-pathological status in large cell carcinoma of the lung] Meng Y, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):212–5 (Eng. Abstr.) **(Chi)**

[Mechanisms and prognostic relevance of c-erbB-2 gene expression in curatively resected non-small-cell bronchial carcinoma] Schneider PM, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:101–7 (Eng. Abstr.) **(Ger)**

[Topographic genomapping of p53 mutations in non-small cell lung cancer using in situ PCR] Ebina M, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):406–11 (9 ref.) (Eng. Abstr.) **(Jpn)**

[p53 alterations and chromosome 17 aberrations in non-small cell lung cancer] Tsuji T, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:263–8 (Eng. Abstr.) **(Jpn)**

[Molecular biological diagnosis of non-small-cell carcinoma of the lung and its application to therapy] Sugio K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):403–5 **(Jpn)**

[Restriction polymorphism of the proto-oncogene c-Ha-ras-1 in patients with multiple primary malignant neoplasms and non-small-cell lung cancer] Gaspar'ian AV, et al. **Genetika** 1997 Jan;33(1):96–100 (Eng. Abstr.) **(Rus)**

[Significance of heterozygosity loss in the long arm of chromosome 5 (5q21) in small cell carcinoma of the lung (see comments)] Sánchez Céspedes M, et al. **Med Clin (Barc)** 1997 May 31;109(1):1–5 (Eng. Abstr.).

Comment in: Med Clin (Barc) 1997 May 31;109(1):16–8. **(Spa)**

IMMUNOLOGY

Autologous tumor killing activity as a prognostic factor in primary resected nonsmall cell carcinoma of the lung. Fujisawa T, et al. **Cancer** 1997 Feb 1;79(3):474–81

Increased immunogenicity of tumors bearing mutant p53 and P1A epitopes after transduction of B7-1 via recombinant adenovirus. Lee CT, et al. **Cancer Gene Ther** 1996 Jul–Aug; 3(4):238–44

HLA-A locus-restricted and tumor-specific CTLs in tumor-infiltrating lymphocytes of patients with non-small cell lung cancer. Seki N, et al. **Cell Immunol** 1997 Feb 1;175(2):101–10

Phenotypic analysis of T lymphocytes isolated from non-small-cell lung cancer. Riemann D, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):38–45

Non-small cell lung cancer-derived soluble mediators and prostaglandin E2 enhance peripheral blood lymphocyte IL-10 transcription and protein production. Huang M, et al. **J Immunol** 1996 Dec 15;157(12):5512–20

Immune mechanisms and tumor dormancy. Stewart TH. **Medicina (B Aires)** 1996;56 Suppl 1:74–82 (37 ref.)

METABOLISM

Differential retinoblastoma protein expression in neuroendocrine tumors of the lung. Potential diagnostic implications. Cagle PT, et al. **Am J Pathol** 1997 Feb; 150(2):393–400

Antioxidant activity in bronchoalveolar lavage fluid from patients with lung cancer. Melloni B, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1706–11

Sialomucin expression is associated with erbB-2 oncoprotein overexpression, early recurrence, and cancer death in non-small-cell lung cancer. Yu CJ, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1419–27

Expression of the human major vault protein LRP in human lung cancer samples and normal lung tissues. Dingemans AM, et al. **Ann Oncol** 1996 Aug;7(6):625–30

Expression of the multidrug resistance-associated protein (MRP) gene in primary non-small-cell lung cancer. Nooter K, et al. **Ann Oncol** 1996 Jan;7(1):75–81

Non-small cell lung cancer: c-erbB-2 overexpression correlates with low angiogenesis and poor prognosis. Giatromanolaki A, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3819–25

Gene expression of granulocyte colony stimulating factor (G-CSF) in non-small cell lung cancer. Nakamura M, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):573–6

Reversible inhibition of IL-8 receptor B mRNA expression and proliferation in non-small cell lung cancer by antisense oligonucleotides. Olbina G, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3525–30

Expression of estrogen and progesterone receptors in non-small-cell lung cancer: immunohistochemical study. Su JM, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3803–6

Prediction of recurrence by quantification of p185neu protein in non-small-cell lung cancer tissue. Diez M, et al. **Br J Cancer** 1997;75(5):684–9

An enhanced and sensitive autocrine stimulation by transforming growth factor-alpha is acquired in the brain metastatic variant of a human non-small-cell lung cancer cell line. Fang K. **Br J Cancer** 1996 Dec;74(11):1776–82

Neoangiogenesis and p53 protein in lung cancer: their prognostic role and their relation with vascular endothelial growth factor (VEGF) expression. Fontanini G, et al. **Br J Cancer** 1997;75(9):1295–301

MDM2 gene amplification and expression in non-small-cell lung cancer: immunohistochemical expression of its protein is a favourable prognostic marker in patients without p53 protein accumulation. Higashiyama M, et al. **Br J Cancer** 1997;75(9):1302–8

Platelet-derived endothelial cell growth factor expression correlates with tumour angiogenesis and prognosis in non-small-cell lung cancer. Koukourakis MI, et al. **Br J Cancer** 1997;75(4):477–81

Overexpression and activation of hepatocyte growth factor/scatter factor in human non-small-cell lung carcinomas. Olivero M, et al. **Br J Cancer** 1996 Dec; 74(12):1862–8

Altered retinoblastoma protein expression in nonsmall cell lung cancer: its synergistic effects with altered ras and p53 protein status on prognosis. Dosaka-Akita H, et al. **Cancer** 1997 Apr 1;79(7):1329–37

Energy balance in nonsmall cell lung carcinoma patients before and after surgical resection of their tumors. Fredrix EW, et al. **Cancer** 1997 Feb 15;79(4):717–23

Prognostic value of the immunohistochemical detection of p16INK4 expression in nonsmall cell lung carcinoma. Taga S, et al. **Cancer** 1997 Aug 1;80(3):389–95

Overexpression of Glut1 and Glut3 in stage I nonsmall cell lung carcinoma is associated with poor survival. Younes M, et al. **Cancer** 1997 Sep 15;80(6):1046–51

Evidence for a functional kit receptor in melanoma, breast, and lung carcinoma cells. DiPaola RS, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):176–82

Glutathione metabolism in patients with non-small cell lung cancers. Blair SL, et al. **Cancer Res** 1997 Jan 1;57(1):152–5

Prognostic role of the cyclin-dependent kinase inhibitor p27 in non-small cell lung cancer. Esposito V, et al. **Cancer Res** 1997 Aug 15;57(16):3381–5

Altered p16INK4 and retinoblastoma protein status in non-small cell lung cancer: potential synergistic effect with altered p53 protein on proliferative activity. Kinoshita I, et al. **Cancer Res** 1996 Dec 15;56(24):5557–62

Differential messenger RNA and protein expression of the receptor for advanced glycosylated end products in normal lung and non-small cell lung carcinoma. Schraml P, et al. **Cancer Res** 1997 Sep 1;57(17):3669–71

Resistance to interleukin 6 in human non-small cell lung carcinoma cell lines: role of receptor components. Ganapathi MK, et al. **Cell Growth Differ** 1996 Jul; 7(7):923–9

Evidence of a retinoid signaling alteration involving the activator protein 1 complex in tumorigenic human bronchial epithelial cells and non-small cell lung cancer cells. Lee HY, et al. **Cell Growth Differ** 1997 Mar; 8(3):283–91

Role of O6-methylguanine-DNA methyltransferase, glutathione transferase M3-3 and glutathione in resistance to carmustine in a human non-small cell lung cancer cell line. Egyházi S, et al. **Eur J Cancer** 1997 Mar;33(3):447–52

Serum and urinary vascular endothelial growth factor levels in non-small cell lung cancer patients [letter] Ferrari G, et al. **Eur J Cancer** 1996 Dec;32A(13):2368–9

A comparison of epidermal growth factor receptor levels and other prognostic parameters in non-small cell lung cancer. Fujino S, et al. **Eur J Cancer** 1996 Nov; 32A(12):2070–4

Prognostic role of cyclin D1 in non small cell lung cancer: an immunohistochemical analysis. Caputi M, et al. **Eur J Histochem** 1997;41(2):133–8

Effects of transforming growth factor-beta 1 and phorbol ester on PAI-1 and PA genes in human lung cells. Jakowlew SB, et al. **Growth Factors** 1997;14(2–3):177–97

Prognostic markers in resectable non-small cell lung cancer. Strauss GM. **Hematol Oncol Clin North Am** 1997 Jun; 11(3):409–34 (88 ref.)

Apoptosis occurs independently of bcl-2 and p53 over-expression in non-small cell lung carcinoma. O'Neill AJ, et al. **Histopathology** 1996 Jul;29(1):45–50

Expression of CD44 standard form and variant isoforms in non-small cell lung carcinomas. Tran TA, et al. **Hum Pathol** 1997 Jul;28(7):809–14

Immunohistochemically detected expression of motility-related protein-1 (MRP-1/CD9) in lung adenocarcinoma and its relation to prognosis. Higashiyama M, et al. **Int J Cancer** 1997 Apr 22;74(2):205–11

Control of proteinase expression by phorbol-ester- and Fos-dependent pathways in human non-small-cell lung-cancer cells. Schuermann M, et al. **Int J Cancer** 1997 Apr 10;71(2):275–83

Overexpression of MUC5 genes is associated with early post-operative metastasis in non-small-cell lung cancer. Yu CJ, et al. **Int J Cancer** 1996 Dec 20;69(6):457–65

Pharmacokinetics of paclitaxel and carboplatin in a dose-escalating and dose-sequencing study in patients with non-small-cell lung cancer. The European Cancer Centre. Huizing MT, et al. **J Clin Oncol** 1997 Jan;15(1):317–29

p53 gene product expression in resected non-small cell carcinoma of the lung, with studies of concurrent cytological preparations and microwave antigen retrieval. Binks S, et al. **J Clin Pathol** 1997 Apr;50(4):320–3

Heparin-binding epidermal growth factor-like growth factor and transforming growth factor-alpha in human non-small cell lung cancers. Chong IW, et al. **J Formos Med Assoc** 1997 Aug;96(8):579–85

Regulation of VIP gene expression in general. Human lung cancer cells in particular. Davidson A, et al. **J Mol Neurosci** 1996 Summer;7(2):99–110 (77 ref.)

Retinoic acid receptor expression abnormalities in lung cancer: important clues or major obstacles? [editorial; comment] Minna JD, et al. **J Natl Cancer Inst** 1997 May 7;89(9):602–4 (42 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):624–9.

Cyclin D1 overexpression in non-small cell lung carcinoma: correlation with Ki67 labelling index and poor cytoplasmic differentiation. Mate JL, et al. **J Pathol** 1996 Dec; 180(4):395–9

Expression of c-met/HGF receptor in human non-small cell lung carcinomas in vitro and in vivo and its prognostic significance. Ichimura E, et al. **Jpn J Cancer Res** 1996 Oct; 87(10):1063–9

Ganglioside expression in lung cancer cell lines. Fuentes R, et al. **Lung Cancer** 1997 Aug;18(1):21–33

Clinical correlates of bombesin-like peptide receptor subtype expression in human lung cancer cells. Toi-Scott M, et al. **Lung Cancer** 1996 Nov;15(3):341–54

High c-erbB-3 protein expression is associated with shorter survival in advanced non-small cell lung carcinomas. Yi ES, et al. **Mod Pathol** 1997 Feb;10(2):142–8

Suramin inhibits the growth of non-small-cell lung cancer cells that express the epidermal growth factor receptor. Fujiuchi S, et al. **Oncology** 1997 Mar-Apr;54(2):134–40

Peptides and growth factors in non-small cell lung cancer. Moody TW. **Peptides** 1996;17(3):545–55 (151 ref.)

Gastrin levels in serum and bronchoalveolar lavage fluid of patients with lung cancer: comparison with patients with chronic obstructive pulmonary disease. Dowlati A, et al. **Thorax** 1996 Dec;51(12):1270–2

Metabolism in patients with small cell lung carcinoma compared with patients with non-small cell lung carcinoma and healthy controls. Staal-van den Brekel AJ, et al. **Thorax** 1997 Apr;52(4):338–41

MORTALITY

Short-term survival after major pulmonary resections for bronchogenic carcinoma. Hendriks J, et al. **Acta Chir Belg** 1996 Nov-Dec;96(6):273–9

Survival and prognostic factors in resected N2 non-small cell lung cancer: a study of 140 cases. Leuven Lung Cancer Group. Vansteenkiste JF, et al. **Ann Thorac Surg** 1997 May; 63(5):1441–50

Lymph node type as a prognostic factor for survival in T2 N1 M0 non-small cell lung carcinoma. van Velzen E, et al. **Ann Thorac Surg** 1997 May;63(5):1436–40

Gender influence on weight-loss pattern and survival of nonsmall cell lung carcinoma patients. Palomares MR, et al. **Cancer** 1996 Nov 15;78(10):2119–26

Association of immunoreactive hepatocyte growth factor with poor survival in resectable non-small cell lung cancer. Siegfried JM, et al. **Cancer Res** 1997 Feb 1;57(3):433–9

Type of lymph node involvement influences survival rates in T1N1M0 non-small cell lung carcinoma. Lymph node involvement by direct extension compared with lobar and hilar node metastases. van Velzen E, et al. **Chest** 1996 Dec; 110(6):1469–73

A longitudinal study of quality of life in advanced non-small cell lung cancer: Cancer and Leukemia Group B (CALGB) 8931 [see comments] Herndon JE 2nd, et al. **Control Clin Trials** 1997 Aug;18(4):286–300. Comment in: Control Clin Trials 1997 Aug;18(4):306–10. Comment in: Control Clin Trials 1997 Aug;18(4):311–7.

Absence of prognostic significance of bcl-2 immunopositivity in non-small cell lung cancer: analysis of 427 cases. Anton RC, et al. **Hum Pathol** 1997 Sep;28(9):1079–82

Reduced survival in patients with stage-I non-small-cell lung cancer associated with DNA-replication errors. Rosell R, et al. **Int J Cancer** 1997 Jun 20;74(3):330–4

Angiogenesis as a prognostic indicator of survival in non-small-cell lung carcinoma: a prospective study. Fontanini G, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):881–6

Recursive partitioning analysis of 1592 patients on four Radiation Therapy Oncology Group studies in inoperable non-small cell lung cancer. Scott C, et al. **Lung Cancer** 1997 Jun;17 Suppl 1:S59–74

Prognostic factors for patients with advanced non-small cell lung cancer: univariate and multivariate analyses including recursive partitioning and amalgamation. Takigawa N, et al. **Lung Cancer** 1996 Aug;15(1):67–77

Timing of radiotherapy in asymptomatic patients with inoperable non-small cell lung cancer: a survival analysis and literature review. Ampil FL, et al. **Radiat Med** 1996 Jul-Aug;14(4):211–4 (19 ref.)

Confirmation of a prognostic index for patients with inoperable non-small cell lung cancer. Wigren T. **Radiother Oncol** 1997 Jul;44(1):9–15

Prognosis in lung cancer: physicians' opinions compared with outcome and a predictive model. Muers MF, et al. **Thorax** 1996 Sep;51(9):894–902

[Evaluation of survival and prognostic factors of 2,000 broncho-pulmonary cancers registered during 10 years in a multidisciplinary oncology department] Moro D, et al. **Bull Cancer** 1997 Feb;84(2):155–61 (37 ref.) (Eng. Abstr.) **(Fre)**

[Molecular biological prognostic markers in lung cancer] Abe S. **Nippon Geka Gakkai Zasshi** 1997 Jan;98(1):2–7 (35 ref.) (Eng. Abstr.) **(Jpn)**

[KAI1/CD82 and ME491/CD63 expression in non-small-cell carcinoma of the lung and prognosis] Adachi M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):398–401 **(Jpn)**

[Postoperative follow-up results of patients with non-small cell lung cancer (stage I) who received autologous blood transfusion] Kikuchi K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):315–6 **(Jpn)**

[Effects of a reduction or deviation of metastasis inhibitory factor MRP-1/CD9 on postoperative follow-up results in patients with lung cancer] O S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):321–3 **(Jpn)**

PATHOLOGY

Cercariform cells for helping distinguish transitional cell carcinoma from non-small cell lung carcinoma in fine needle aspirates. Renshaw AA, et al. **Acta Cytol** 1997 Jul-Aug;41(4):999–1007

Metastatic large-cell lung carcinoma presenting as gastrointestinal hemorrhage. Akahoshi K, et al. **Acta Gastroenterol Belg** 1996 Jul-Sep;59(3):217–9

Interaction with type II estrogen binding sites and antiproliferative activity of tamoxifen and quercetin in human non-small-cell lung cancer. Caltagirone S, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):51–9

Interest of targeting AgNORs measurement in cycling cells: in vivo cell kinetic evaluation of non-small cell lung cancer. Bigras G, et al. **Anal Cell Pathol** 1996 Aug;11(3):183–98

Non-small cell lung cancer. Morphology and DNA flow cytometry. Desinan L, et al. **Anal Quant Cytol Histol** 1996 Dec;18(6):438–52

Endoscopic ultrasonography, fine-needle aspiration biopsy

guided by endoscopic ultrasonography, and computed tomography in the preoperative staging of non-small-cell lung cancer: a comparison study [see comments] Gress FG, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):604–12 . Comment in: Ann Intern Med 1997 Oct 15;127(8 (Pt 1)):643–5.

Tissue is the issue: is endoscopic ultrasonography with or without fine-needle aspiration biopsy in the staging of non-small-cell lung cancer an advance? [editorial; comment] White P Jr, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):643–5. Comment on: Ann Intern Med 1997 Oct 15;127(8 (Pt 1)):604–12.

VIP inhibits the proliferation of small-cell and nonsmall-cell lung carcinoma. Maruno K, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:389–92; discussion 392–3

Mitomycin C plus vindesine plus etoposide (MEV) versus mitomycin C plus vindesine plus cisplatin (MVP) in stage IV non-small-cell lung cancer: A phase III multicentre randomised trial. The 'Gruppo Oncologico Centro-Sud-Isole' (G.O.C.S.I.). Gridelli C, et al. **Ann Oncol** 1996 Oct;7(8):821–6

Blood vessel invasion is a major prognostic factor in resected non-small cell lung cancer. Kessler R, et al. **Ann Thorac Surg** 1996 Nov;62(5):1489–93

Lymph node type as a prognostic factor for survival in T2 N1 M0 non-small cell lung carcinoma. van Velzen E, et al. **Ann Thorac Surg** 1997 May;63(5):1436–40

Reversible inhibition of IL-8 receptor B mRNA expression and proliferation in non-small cell lung cancer by antisense oligonucleotides. Olbina G, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3525–30

Antisense oligonucleotides to p53 tumor suppressor suppress the induction of apoptosis by epidermal growth factor in NCI-H 596 human lung cancer cells. Murayama Y, et al. **Antisense Nucleic Acid Drug Dev** 1997 Apr;7(2):109–14

'Tumour volume' [letter; comment] Clelland CA. **Br J Cancer** 1997;75(3):464. Comment on: Br J Cancer 1996 Aug;74(3):456–9.

Growth inhibition of human lung adenocarcinoma cells by antibodies against epidermal growth factor receptor and by ganglioside GM3: involvement of receptor-directed protein tyrosine phosphatase(s). Suarez Pestana E, et al. **Br J Cancer** 1997;75(2):213–20

Anti-insulin-like growth factor-I activity of a novel polysulphonated distamycin A derivative in human lung cancer cell lines. de Cupis A, et al. **Br J Pharmacol** 1997 Feb;120(3):537–43

Blood vessel and lymphatic vessel invasion in resected nonsmall cell lung carcinoma. Correlation with TNM stage and disease free and overall survival. Bréchot JM, et al. **Cancer** 1996 Nov 15;78(10):2111–8

Apoptosis bcl-2 and p53 expression and their relation to tumour stage in non-small cell lung carcinomas (NSCLC). Kargi HA, et al. **Cancer Lett** 1997 Jun 24;116(2):185–9

Cholera toxin triggers apoptosis in human lung cancer cell lines. Allam M, et al. **Cancer Res** 1997 Jul 1;57(13):2615–8

Cell-substratum interactions mediate oncogene-induced phenotype of lung cancer cells. Barr LF, et al. **Cell Growth Differ** 1996 Sep;7(9):1149–56

Is it possible to differentiate malignant mediastinal nodes from benign nodes by size? Reevaluation by CT, transesophageal echocardiography, and nodal specimen. Arita T, et al. **Chest** 1996 Oct;110(4):1004–8

IIB or not IIB: the current question in staging non-small cell lung cancer. Detterbeck FC, et al. **Chest** 1997 Jul; 112(1):229–34 (40 ref.)

Tumor neutrophil elastase is closely associated with the direct extension of non-small cell lung cancer into the aorta. Yamashita J, et al. **Chest** 1997 Apr;111(4):885–90

Non-small cell lung cancer with testicular metastasis: a case report. Wang WS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jul;58(1):54–7

Ki-67 labeling indices in non-small cell lung cancer: comparison between image cytometry and flow cytometry. Ishikuro A, et al. **Cytometry** 1997 Aug 15;30(4):186–91

Analysis of phosphorylated isoforms of the p53 tumor suppressor protein in human lung carcinoma cells undergoing apoptosis. Maxwell SA, et al. **Electrophoresis** 1996 Nov;17(11):1772–5

Is there a role for video-assisted thoracoscopy in the staging of non-small cell lung cancer? Waller D, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):214–7

Prospective evaluation of computed tomography and mediastinoscopy in mediastinal lymph node staging. Gdeedo A, et al. **Eur Respir J** 1997 Jul;10(7):1547–51

Apoptosis and mitosis as prognostic factors in pathologically staged N1 nonsmall cell lung cancer. Komaki R, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):601–5

Stimulatory effect of reconstituted basement membrane components (matrigel) on the colony formation of a panel of human lung cancer cell lines in soft agar. Yoshida S, et al. **J Cancer Res Clin Oncol** 1997;123(6):301–9

Spectrum of neuroendocrine differentiation in lung cancer cell lines featured by cytomorphology, markers, and their corresponding tumors. Linnoila RI. **J Cell Biochem Suppl** 1996;24:92–106 (66 ref.)

Cell culture methods for the establishment of the NCI series of lung cancer cell lines. Oie HK, et al. **J Cell Biochem Suppl** 1996;24:24–31 (22 ref.)

Monoclonal antibody alpha IR-3 inhibits non-small cell lung cancer growth in vitro and in vivo. Zia F, et al. **J Cell Biochem Suppl** 1996;24:269–75

Interferon-gamma-inducible protein 10 (IP-10) is an angiostatic factor that inhibits human non-small cell lung cancer (NSCLC) tumorigenesis and spontaneous metastases. Arenberg DA, et al. **J Exp Med** 1996 Sep 1; 184(3):981–92

Angiogenesis as a prognostic indicator of survival in non-small-cell lung carcinoma: a prospective study. Fontanini G, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):881–6

Re: Stage IIIA category of non-small-cell lung cancer: a new proposal [letter; comment] [published erratum appears in J Natl Cancer Inst 1997 Feb 19;89(4):328] Grunenwald D, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):88–9. Comment on: J Natl Cancer Inst 1994 Apr 20;86(8):586–8.

Antitumor effect of CGP41251, a new selective protein kinase C inhibitor, on human non-small cell lung cancer cells. Ikegami Y, et al. **Jpn J Pharmacol** 1996 Jan;70(1):65–72

Prognostic value of histology in patients with non-small cell lung cancer. Charloux A, et al. **Lung Cancer** 1997 May; 17(1):123–34

Pretreatment minimal staging and prognostic factors for non-small cell lung cancer. Feld R, et al. **Lung Cancer** 1997 Jun;17 Suppl 1:S3–10 (34 ref.)

Prognostic factors in resected non-small cell lung cancer: an immunohistochemical study of 39 cases. Kwa HB, et al. **Lung Cancer** 1996 Dec;16(1):35–45

Histopathological grading of response to induction chemotherapy in non-small cell lung cancer: a preliminary study. Milano S, et al. **Lung Cancer** 1996 Sep;15(2):183–7

Surfactant proteins and thyroid transcription factor-1 in pulmonary and breast carcinomas. Bejarano PA, et al. **Mod Pathol** 1996 Apr;9(4):445–52

Laminin and cathepsin B as prognostic factors in stage I non-small cell lung cancer: are they useful? Mori M, et al. **Mod Pathol** 1997 Jun;10(6):572–7

Plasma thrombin-antithrombin complexes, latent coagulation disorders and metastatic spread in lung cancer: a longitudinal study. Tricerri A, et al. **Oncology** 1996 Nov-Dec;53(6):455–60

Radical radiotherapy for medically inoperable non-small cell lung cancer in clinical stage I: a retrospective analysis of 149 patients. Morita K, et al. **Radiother Oncol** 1997 Jan; 42(1):31–6

Endocrine cells in tumour-bearing lungs. Sheard JD, et al. **Thorax** 1996 Jul;51(7):721–6

[Expression of plakoglobin in bronchial carcinomas: incidence and significance for disease outcome] Passlick B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:810–3 (Eng. Abstr.) **(Ger)**

[Lymph- and haemangiosis carcinomatosa—an important prognostic factor in non-small-cell bronchial carcinoma (NSCLC)] Schultheis KH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:775–8 (Eng. Abstr.) **(Ger)**

[Prognostic factors in stage I of non-small-cell bronchial carcinoma] Passlick B, et al. **Zentralbl Chir** 1996; 121(10):851–7; discussion 858–60 (62 ref.) (Eng. Abstr.) **(Ger)**

[Surgical therapy of locally advanced non-small cell lung carcinoma] Martelli M, et al. **Chir Ital** 1995;47(3):30–3 (Eng. Abstr.) **(Ita)**

[Analysis of small peripheral lung cancer diagnosed by open lung or thoracoscopic biopsy] Nomori H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):146–8 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Dimensions of symptom distress in women with advanced lung cancer: a factor analysis. Sarna L, et al. **Heart Lung** 1997 Jan-Feb;26(1):23–30

Trading treatment toxicity for survival in locally advanced non-small cell lung cancer. Brundage MD, et al. **J Clin Oncol** 1997 Jan;15(1):330–40

Constructing health state preference values from descriptive quality of life outcomes: mission impossible? Chancellor JV, et al. **Qual Life Res** 1997 Mar;6(2):159–68

Quality of life assessment in chemotherapy trials for non-small cell lung cancer: are theory and practice significantly different? Hopwood P. **Semin Oncol** 1996 Oct; 23(5 Suppl 10):60–4 (24 ref.)

RADIOGRAPHY

Assessment of the accuracy of diagnostic chest CT scanning. Impact on lung cancer management. Cangemi V, et al. **Int Surg** 1996 Jan-Mar;81(1):77–82

Non-small cell lung cancer: nodal staging with FDG PET versus CT with correlative lymph node mapping and sampling. Steinert HC, et al. **Radiology** 1997 Feb; 202(2):441–6

RADIONUCLIDE IMAGING

Sigma-receptor imaging by means of I123-IDAB scintigraphy: clinical application in melanoma and non-small cell lung cancer. Everaert H, et al. **Anticancer Res** 1997 May-Jun;17(3B):1577–82

Staging of non-small-cell lung cancer by whole-body fluorine-18 deoxyglucose positron emission tomography. Bury T, et al. **Eur J Nucl Med** 1996 Feb;23(2):204–6

Staging of the mediastinum: value of positron emission tomography imaging in non-small cell lung cancer. Bury T, et al. **Eur Respir J** 1996 Dec;9(12):2560–4

Decision tree sensitivity analysis for cost-effectiveness of FDG-PET in the staging and management of non-small-cell lung carcinoma [letter; comment] Makler PT Jr. **J Nucl Med** 1997 Jul;38(7):1173–4. Comment on: J Nucl Med 1996 Sep;37(9):1428–36.

Effectively using evidence for decision analysis [letter; comment] Shaw LJ. **J Nucl Med** 1997 Jul;38(7):1172–3. Comment on: J Nucl Med 1996 Sep;37(9):1428–36.

Two-step immunoscintigraphy for non-small-cell lung cancer staging using a bispecific anti-CEA/anti-indium-DTPA antibody and an indium-111-labeled DTPA dimer. Vuillez JP, et al. **J Nucl Med** 1997 Apr;38(4):507–11

Role of positron emission tomography in the staging of lung cancer. Schiepers C. **Lung Cancer** 1997 Jun;17 Suppl 1:S29–35

Non-small cell lung cancer: nodal staging with FDG PET versus CT with correlative lymph node mapping and sampling. Steinert HC, et al. **Radiology** 1997 Feb; 202(2):441–6

Lymph node staging in non-small cell lung cancer: evaluation by [18F]FDG positron emission tomography (PET). Guhlmann A, et al. **Thorax** 1997 May;52(5):438–41

RADIOTHERAPY

Radiation therapy for intrathoracic recurrence of non-small cell lung cancer. Emami B, et al. **Am J Clin Oncol** 1997 Feb;20(1):46–50

Cisplatin and vinorelbine followed by radiotherapy in the treatment of stage III-B non-small-cell lung cancer patients. Felip E, et al. **Am J Clin Oncol** 1997 Aug; 20(4):404–6

Long-term survivors of non-small cell lung cancer after radiation therapy: the significance of histological type. Nakayama Y, et al. **Anticancer Res** 1997 Jul-Aug; 17(4A):2769–73

Radiation treatment of superior sulcus lung carcinoma. Millar J, et al. **Australas Radiol** 1996 Feb;40(1):55–60

A phase III study of radiotherapy with and without continuous-infusion fluorouracil as palliation for non-small-cell lung cancer. Ball D, et al. **Br J Cancer** 1997; 75(5):690–7

A pilot study of concurrent whole-brain radiotherapy and chemotherapy combined with cisplatin, vindesine and mitomycin in non-small-cell lung cancer with brain metastasis. Furuse K, et al. **Br J Cancer** 1997;75(4):614–8

Post-operative radiotherapy in NSCLC [letter; comment] Stewart L, et al. **Br J Cancer** 1997;75(8):1224. Comment on: Br J Cancer 1996 Aug;74(4):495.

Palliative effectiveness of radiation therapy in the treatment of superior vena cava syndrome. Egelmeers A, et al. **Bull Cancer Radiother** 1996;83(3):153–7

The role of palliative thoracic radiotherapy in non-small cell lung cancer. Brundage MD, et al. **Can J Oncol** 1996 Feb; 6 Suppl 1:25–32 (24 ref.)

p53 mutations do not predict response to paclitaxel/radiation for nonsmall cell lung carcinoma. Safran H, et al. **Cancer** 1996 Sep 15;78(6):1203–10

Effect of Krestin as adjuvant treatment following radical radiotherapy in non-small cell lung cancer patients. Hayakawa K, et al. **Cancer Detect Prev** 1997;21(1):71–7

Curative irradiation of limited endobronchial carcinomas with high-dose rate brachytherapy. Results of a pilot study [see comments] Pérol M, et al. **Chest** 1997 May; 111(5):1417–23. Comment in: Chest 1997 May;111(5):1158–61.

Immediate side effects of large fraction radiotherapy. Devereux S, et al. **Clin Oncol (R Coll Radiol)** 1997;9(2):96–9

Randomized trial of two-fraction versus more intensive 13-fraction radiotherapy for patients with inoperable non-small cell lung cancer and good performance status [letter; comment] Lander FA, et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):408. Comment on: Clin Oncol (R Coll Radiol) 1996;8(3):167–75.

Randomized trial of palliative two-fraction versus more intensive 13-fraction radiotherapy for patients with inoperable non-small cell lung cancer and good performance status. Medical Research Council Lung Cancer Working Party [see comments] Macbeth FR, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):167–75. Comment in: Clin Oncol (R Coll Radiol) 1996;8(6):408.

Radiation myelopathy: estimates of risk in 1048 patients in three randomized trials of palliative radiotherapy for non-small cell lung cancer. The Medical Research Council Lung Cancer Working Party. Macbeth FR, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):176–81

Locally advanced non-small cell lung cancer: the "local" issue. Movsas B. **Curr Probl Cancer** 1996 May-Jun; 20(3):197–212 (57 ref.)

Pre-operative chemoradiotherapy in non-small cell lung cancer stage III patients. Feasibility, toxicity and long-term results of a phase II study. Favaretto A, et al. **Eur J Cancer** 1996 Nov;32A(12):2064–9

Comments on A case of radiation myelopathy after 2 x 8.5 Gy for inoperable non-small cell lung cancer, Dardoufas et al., European Journal of Cancer, 31A, Nos 13/14, pp.2418–2419, 1995 [letter; comment] Hocking M. **Eur J Cancer** 1996 Aug;32A(9):1616. Comment on: Eur J Cancer 1995 Dec;31A(13–14):2418–9.

Accelerated split-course (type B) thoracic radiation therapy plus vinorelbine/carboplatin combination chemotherapy in stage III inoperable non-small cell lung cancer. Iaffaioli

RV, et al. **Eur J Cancer** 1996 Oct;32A(11):1901–4

Comments on A case of radiation myelopathy after 2 x 8.5 Gy for inoperable non-small cell lung cancer, Dardoufas et al., European Journal of Cancer, 31A, Nos 13/14, pp. 2418–2419, 1995 [letter; comment] Macbeth F. **Eur J Cancer** 1996 Aug;32A(9):1616–7. Comment on: Eur J Cancer 1995 Dec;31A(13–14):2418–9.

Feasibility of escalating daily doses of cisplatin in combination with accelerated radiotherapy in non-small cell lung cancer. Schuster-Uitterhoeve AL, et al. **Eur J Cancer** 1996 Jul;32A(8):1314–9

IORT for non-small-cell lung cancer: preliminary report of 33 cases. Zeng DW, et al. **Front Radiat Ther Oncol** 1997; 31:138–9

Optimizing chemotherapy and radiotherapy in locally advanced non-small cell lung cancer. Arriagada R. **Hematol Oncol Clin North Am** 1997 Jun;11(3):461–72 (37 ref.)

Palliative radiation therapy for non-small cell lung cancer. Baldini EH. **Hematol Oncol Clin North Am** 1997 Apr; 11(2):303–19 (63 ref.)

A phase II trial of radiochemotherapy with daily carboplatin, after induction chemotherapy (carboplatin and etoposide), in locally advanced nonsmall-cell lung cancer: final analysis. Bardet E, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):163–8

A pilot study of protracted low dose cisplatin and etoposide with concurrent thoracic radiotherapy in unresectable stage III nonsmall cell lung cancer. Blanke C, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):111–6

Does additional brachytherapy improve the effect of external irradiation? A prospective, randomized study in central lung tumors. Huber RM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):533–40

Hyperfractionated radiotherapy alone for clinical stage I nonsmall cell lung cancer. Jeremic B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):521–5

High-dose, hyperfractionated, accelerated radiotherapy using a concurrent boost for the treatment of nonsmall cell lung cancer: unusual toxicity and promising early results [see comments] King SC, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):593–9. Comment in: Int J Radiat Oncol Biol Phys 1996 Oct 1;36(3):753–5.

Randomized study of chemotherapy/radiation therapy combinations for favorable patients with locally advanced inoperable nonsmall cell lung cancer: Radiation Therapy Oncology Group (RTOG) 92–04. Komaki R, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):149–55

Concurrent daily carboplatin and accelerated hyperfractionated thoracic radiotherapy in locally advanced nonsmall cell lung cancer. Kunitoh H, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):103–9

Prognostic factors in the treatment of node-negative nonsmall cell lung carcinoma with radiotherapy alone. Kupelian PA, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):607–13

Concurrent carboplatin, etoposide and thoracic radiation for poor-risk stage III non-small-cell lung carcinoma: a pilot study. Lau DH, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):157–61

A retrospective quality of life analysis using the Lung Cancer Symptom Scale in patients treated with palliative radiotherapy for advanced nonsmall cell lung cancer. Lutz ST, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1; 37(1):117–22

Dose escalation for non-small cell lung cancer using conformal radiation therapy. Robertson JM, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1079–85

Phase I–II trial of concomitant continuous carboplatin (CBDCA) infusion and radiotherapy in advanced nonsmall cell lung cancer with evaluation for surgery: final report. Trodella L, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):93–101

It's about time, or is it volume, fractionation, or technique? [editorial; comment] Turrisi AT 3rd. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):753–5. Comment on: Int J Radiat Oncol Biol Phys 1996 Oct 1;36(3):593–9.

A practical prognostic index for inoperable non-small-cell lung cancer. Wigren T, et al. **J Cancer Res Clin Oncol** 1997;123(5):259–66

Decision analysis in locally advanced non-small-cell lung cancer: is it useful? [see comments] Brundage MD, et al. **J Clin Oncol** 1997 Mar;15(3):873–83. Comment in: J Clin Oncol 1997 Mar;15(3):870–2.

Weekly paclitaxel and cisplatin with concurrent radiotherapy in locally advanced non-small-cell lung cancer: a phase I study. Frasci G, et al. **J Clin Oncol** 1997 Apr; 15(4):1409–17

Decision analysis in non-small-cell lung cancer: not back to the drawing modeling board, back to the bedside [editorial; comment] Smith TJ, et al. **J Clin Oncol** 1997 Mar;15(3):870–2. Comment on: J Clin Oncol 1997 Mar;15(3):873–83.

Combined chemoradiation for locally advanced nonsmall cell lung cancer. Dubray B, et al. **J Infus Chemother** 1995 Fall; 5(4):195–6

Re: Combined-modality therapy for unresectable, stage III non-small-cell lung cancer--caveat emptor or caveat venditor? [letter; comment] Hayman JA, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1866–7. Comment on: J Natl Cancer Inst 1996 Sep 4;88(17):1175–7.

Advantage of a residualizing iodine radiolabel for radioimmunotherapy of xenografts of human non-small-cell carcinoma of the lung. Stein R, et al. **J Nucl Med** 1997 Mar;38(3):391–5

Continuous hyperfractionated accelerated radiotherapy (CHART) versus conventional radiotherapy in non-small-cell lung cancer: a randomised multicentre trial. CHART Steering Committee [see comments] Saunders M, et al. **Lancet** 1997 Jul 19;350(9072):161–5. Comment in: Lancet 1997 Jul 19;350(9072):156–7.

CHART for non-small-cell lung cancer--promises and limitations [comment] Vokes EE. **Lancet** 1997 Jul 19; 350(9072):156–7. Comment on: Lancet 1997 Jul 19;350(9072):161–5.

Continuous hyperfractionated accelerated therapy in non-small-cell lung cancer [letter] Würschmidt F, et al. **Lancet** 1997 Sep 20;350(9081):888

Clinical implication of symptoms in patients with non-small cell lung cancer treated with definitive radiation therapy. Furuta M, et al. **Lung Cancer** 1995 Dec;13(3):275–83

Hyperfractionated radiotherapy and concomitant cisplatin in stage III non-small cell lung cancer: a phase II study by the AIRO-Lombardia Cooperative Group. Palazzi M, et al. **Lung Cancer** 1996 Aug;15(1):85–91

Carboplatin as radiosensitizer in non-small cell lung cancer after cisplatin containing chemotherapy. A phase I study of a groupe francais de pneumo-cancerologie (G.F.P.C.). Thomas P, et al. **Lung Cancer** 1997 Aug;18(1):71–81

Recent advances in managing non-small-cell lung cancer: 3. Radiation therapy. Ball DL, et al. **Med J Aust** 1997 Jun 2;166 Suppl:S11–3

Hyperfractionated radiotherapy combined with simultaneous chemotherapy in inoperable non-small cell lung cancer: a pilot study. Ozkök S, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):443–7

Pilot study points to possibly improved survival in NSCLC with simultaneous chemo/RT [news] **Oncology (Huntingt)** 1996 Mar;10(3):416–7

Timing of radiotherapy in asymptomatic patients with inoperable non-small cell lung cancer: a survival analysis and literature review. Ampil FL, et al. **Radiat Med** 1996 Jul-Aug;14(4):211–4 (19 ref.)

Endobronchial brachytherapy with high-dose-rate remote afterloading for recurrent endobronchial lesions. Delclos ME, et al. **Radiology** 1996 Oct;201(1):279–82

Promising survival with three-dimensional conformal radiation therapy for non-small cell lung cancer. Armstrong J, et al. **Radiother Oncol** 1997 Jul;44(1):17–22

Volume and dose parameters for survival of non-small cell lung cancer patients. Martel MK, et al. **Radiother Oncol** 1997 Jul;44(1):23–9

Radical radiotherapy for medically inoperable non-small cell lung cancer in clinical stage I: a retrospective analysis of 149 patients. Morita K, et al. **Radiother Oncol** 1997 Jan; 42(1):31–6

Limited field irradiation in early stage (T1–2N0) non-small cell lung cancer. Slotman BJ, et al. **Radiother Oncol** 1996 Oct;41(1):41–4

Radiotherapy in the elderly with lung carcinoma: the experience of the Italian "Geriatric Radiation Oncology Group". Gava A, et al. **Rays** 1997 Jan-Mar;22(1 Suppl):61–5

Weekly paclitaxel/cisplatin with concurrent radiotherapy in patients with locally advanced non-small cell lung cancer: a phase I study. Comella G, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 12):S12-113–S12-116

Induction paclitaxel and carboplatin followed by concurrent chemoradiotherapy in patients with unresectable, locally advanced non-small cell lung carcinoma: report of Fox Chase Cancer Center study 94-001. Langer CJ, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-89–S12-95

Chemoradiotherapy for poor-risk stage III non-small cell lung cancer. Lau DH, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-110–S12-112

Twice-weekly paclitaxel and radiation for stage III non-small cell lung cancer. Lau DH, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-106–S12-109

Paclitaxel and radiotherapy in the treatment of advanced non-small cell lung cancer. Marangolo M, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):31–4

Seven-week continuous-infusion paclitaxel plus concurrent radiation therapy for locally advanced non-small cell lung cancer: a phase I study. Rosenthal DI, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-96–S12-100

Induction therapy with carboplatin/paclitaxel followed by concurrent carboplatin/paclitaxel and dose-escalating conformal radiotherapy in the treatment of locally advanced, unresectable non-small cell lung cancer: preliminary report of a phase I trial. Socinski MA, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-117–S12-122

Simultaneous radiochemotherapy with paclitaxel in non-small cell lung cancer: a clinical phase I study. Vogt HG, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 15):26–30

Clinical studies of docetaxel (Taxotere) and concomitant chest therapy. Vokes EE, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 14):S14-26–S14-29

Radiation therapy in the management of patients with unresectable stage IIIA and IIIB non-small cell lung cancer. Wagner H Jr. **Semin Oncol** 1997 Aug;24(4):423–8

The role of radiation therapy in the management of non-small cell lung cancer. Machtay M, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):80–9 (40 ref.)

High-dose radiation therapy for inoperable non-small cell lung cancer without mediastinal involvement (clinical stage N0, N1). Hayakawa K, et al. **Strahlenther Onkol** 1996 Sep; 172(9):489–95

Time course from first symptom to treatment in patients with non-small cell lung cancer referred for radiotherapy: a report by the CHART Steering Committee. Dische S, et al. **Thorax** 1996 Dec;51(12):1262–5

[Three-dimensional radiation therapy. Report of the "2nd International Symposium 3-D Radiation Treatment Planning and Conformal Therapy". 11–13 April 1996, Saint-Louis, Missouri, USA] Touboul E, et al. **Bull Cancer Radiother** 1996;83(3):187–95 **(Fre)**

[Postoperative radiotherapy in non-small cell lung cancer. Apropos of a series of 374 cases] Baillet F, et al. **Cancer Radiother** 1997;1(2):137–42 (23 ref.) (Eng. Abstr.) **(Fre)**

[Optimization of combined radiotherapy and chemotherapy in treatment of non-small cell lung carcinoma] Bretel JJ, et al. **Cancer Radiother** 1997;1(2):148–53 (Eng. Abstr.) **(Fre)**

[Discussion on the role of radiotherapy in non-small cell lung cancer apropos of 137 non-metastatic cases] Dessard-Diana B, et al. **Cancer Radiother** 1997;1(2):154–8 (10 ref.) (Eng. Abstr.) **(Fre)**

[Radiotherapy in locoregional treatment of inoperable non-small cell lung cancer: results from a series of 381 patients] Durdux C, et al. **Cancer Radiother** 1997;1(2):132–6 (19 ref.) (Eng. Abstr.) **(Fre)**

[A combined radiochemotherapy trial for non-small cell lung cancers: initial results] Livartowski A, et al. **Cancer Radiother** 1997;1(2):170–3 (Eng. Abstr.) **(Fre)**

[Outcome of CHART radiotherapy in squamous cell carcinoma of the head and neck and in non-small cell bronchial carcinoma] Baumann M, et al. **Strahlenther Onkol** 1997 Jun;173(6):341–3 **(Ger)**

[Improved survival through simultaneous radiochemotherapy versus radiotherapy alone in stage III of non-small-cell bronchial carcinoma] Rübe C. **Strahlenther Onkol** 1997 Apr;173(4):239–40 **(Ger)**

[Lung cancer--hopelessness in inoperability? A 10-year follow-up] Schwegler N. **Strahlenther Onkol** 1997 Jul; 173(7):352–61 (Eng. Abstr.) **(Ger)**

[Locally advanced non-small cell lung tumors: curative or palliative radiotherapy] Scarpati D, et al. **Chir Ital** 1995; 47(3):34–8 (Eng. Abstr.) **(Ita)**

[Radiotherapy for non-small cell lung cancer] Sumi M, et al. **Nippon Geka Gakkai Zasshi** 1997 Jan;98(1):53–9 (39 ref.) (Eng. Abstr.) **(Jpn)**

[Effect of daily administration of oral etoposide for non-small cell lung cancer treated with concurrent radiation therapy] Ohnishi H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul;57(8):510–4 (Eng. Abstr.) **(Jpn)**

[Recent advances in radiation therapy for non-small cell lung cancer] Morita K. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:103–6 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Use of intraluminal brachytherapy for treatment of patients with non-small cell lung cancer in cases of local failure after teleradiotherapy] Makarewicz R, et al. **Pneumonol Alergol Pol** 1996;64(7–8):444–9 (Eng. Abstr.) **(Pol)**

[High-dose endobronchial brachytherapy in malignant tumors of the lung] Escobar Sacristán J, et al. **Arch Bronconeumol** 1997 Jun;33(6):278–83 (Eng. Abstr.) **(Spa)**

[Radiotherapy of lung cancer. Optimized radiotherapy improves survival] Brodin O. **Lakartidningen** 1997 May 14; 94(20):1881–6 (25 ref.) **(Swe)**

SECONDARY

Surgical resection of brain metastases from lung cancer. Andrews RJ, et al. **Acta Neurochir (Wien)** 1996; 138(4):382–9

Acceptability of patients with brain metastases for clinical trials of chemotherapy for metastatic non-small-cell lung cancer. Ando Y, et al. **Am J Clin Oncol** 1996 Oct; 19(5):478–82

Does resection of adrenal metastases from non-small cell lung cancer improve survival? Luketich JD, et al. **Ann Thorac Surg** 1996 Dec;62(6):1614–6

Micrometastatic tumor cells in the bone marrow of patients with non-small cell lung cancer. Ohgami A, et al. **Ann Thorac Surg** 1997 Aug;64(2):363–7

Skip metastasis to the mediastinal lymph nodes in non-small cell lung cancer. Yoshino I, et al. **Ann Thorac Surg** 1996 Oct;62(4):1021–5

Macrophage colony-stimulating factor gene transduction into human lung cancer cells differentially regulates metastasis formations in various organ microenvironments of natural killer cell-depleted SCID mice. Yano S, et al. **Cancer Res** 1997 Feb 15;57(4):784–90

Long-term survival after bilateral adrenalectomy for metastatic lung cancer: a case report. Urschel JD, et al. **Chest** 1997 Sep;112(3):848–50

Prognosis of ipsilateral intrapulmonary metastases in resected nonsmall cell lung cancer. Fukuse T, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):218–23

Extended operation for non-small cell lung cancer invading great vessels and left atrium. Fukuse T, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):664–9

Fine-needle aspiration of posterior mediastinal lesions guided by radial scanning endosonography. Ikenberry S, et al. **Gastrointest Endosc** 1996 Jun;43(6):605–10

Comparative allelotype of early and advanced stage non-small cell lung carcinomas. Shiseki M, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):71–7

Clinical features of skin metastasis from lung cancer. Hidaka T, et al. **Intern Med** 1996 Jun;35(6):459–62 (13 ref.)

Choroidal metastases resulting from carcinoma of the lung. Abundo RE, et al. **J Am Optom Assoc** 1997 Feb; 68(2):95–108

Alterations of P16 (MTS1) in node-positive non-small cell lung carcinomas. Marchetti A, et al. **J Pathol** 1997 Feb; 181(2):178–82

Kinetic analysis of recurrence and survival after potentially curative resection of nonsmall cell lung cancer. Mitsudomi T, et al. **J Surg Oncol** 1996 Nov;63(3):159–65

Micrometastatic P53-positive cells in the lymph nodes of non-small-cell lung cancer: prognostic significance. Dobashi K, et al. **J Thorac Cardiovasc Surg** 1997 Sep; 114(3):339–46

Mediastinal lymph node metastasis in patients with clinical stage I peripheral non-small-cell lung cancer. Takizawa T, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):248–52

Mediastinal lymph node metastasis in patients with clinical stage I lung cancer [letter] Van Schil PE. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):511–2

Recent advances in managing non-small-cell lung cancer: 4. Chemotherapy of metastatic cancer. Clarke SJ, et al. **Med J Aust** 1997 Jun 2;166 Suppl:S14–6

Solitary brain metastases from non-oat cell lung cancer: clinical and prognostic features. Salvati M, et al. **Neurosurg Rev** 1996;19(4):221–5

Paclitaxel/carboplatin chemotherapy as primary treatment of brain metastases in non-small cell lung cancer: a preliminary report. Lee JS, et al. **Semin Oncol** 1997 Aug; 24(4 Suppl 12):S12-52–S12-55

[Adrenalectomy in metastasis of primary pulmonary carcinoma: an emerging issue] Motta G, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):661–7; discussion 667–8 (Eng. Abstr.) **(Ita)**

SURGERY

Short-term survival after major pulmonary resections for bronchogenic carcinoma. Hendriks J, et al. **Acta Chir Belg** 1996 Nov–Dec;96(6):273–9

The present status of surgery for lung cancer. Lacquet LK. **Acta Chir Belg** 1996 Nov–Dec;96(6):245–51 (15 ref.)

Results of pneumonectomy for non-small cell lung cancer. Mizushima Y, et al. **Acta Oncol** 1997;36(5):493–7

The role of bronchoplasty in the treatment of lung cancer. Sioris T, et al. **Ann Chir Gynaecol** 1997;86(1):31–7

Herbert Sloan Lecture. Extended operations for the treatment of lung cancer. Dartevelle PG. **Ann Thorac Surg** 1997 Jan;63(1):12–9

Lobectomy versus limited resection in T1 N0 lung cancer [letter; comment] Lederle FA. **Ann Thorac Surg** 1996 Oct; 62(4):1249–50. Comment on: Ann Thorac Surg 1995 Sep;60(3):615–22; discussion 622–3.

Does resection of adrenal metastases from non-small cell lung cancer improve survival? Luketich JD, et al. **Ann Thorac Surg** 1996 Dec;62(6):1614–6

Treatment strategy for patients with surgically discovered N2 stage IIIA non-small cell lung cancer. Nakanishi R, et al. **Ann Thorac Surg** 1997 Aug;64(2):342–8

Non-small cell lung cancer at the extremes of age: impact on diagnosis and treatment. Nugent WC, et al. **Ann Thorac Surg** 1997 Jan;63(1):193–7

Surgical results and prognostic factors in early non-small cell lung cancer. Padilla J, et al. **Ann Thorac Surg** 1997 Feb;63(2):324–6

Results of resection of T3 non-small cell lung cancer invading the mediastinum or main bronchus. Pitz CC, et al. **Ann Thorac Surg** 1996 Oct;62(4):1016–20

Postoperative prognosis in patients with non-small cell lung cancer with synchronous ipsilateral intrapulmonary metastasis. Yoshino I, et al. **Ann Thorac Surg** 1997 Sep; 64(3):809–13

'Tumour volume' [letter; comment] Clelland CA. **Br J Cancer** 1997;75(3):464. Comment on: Br J Cancer 1996 Aug;74(3):456–9.

Energy balance in nonsmall cell lung carcinoma patients before and after surgical resection of their tumors. Fredrix EW, et al. **Cancer** 1997 Feb 15;79(4):717–23

Comparison of a genetic algorithm neural network with logistic regression for predicting outcome after surgery for patients with nonsmall cell lung carcinoma. Jefferson MF, et al. **Cancer** 1997 Apr 1;79(7):1338–42

Combined operations for lung volume reduction surgery and lung cancer. McKenna RJ Jr, et al. **Chest** 1996 Oct; 110(4):885–8

En bloc minimal laser resection for T3-chest wall lung cancer in patients with poor pulmonary function. Mineo TC, et al. **Chest** 1996 Oct;110(4):1092–6

Preoperative chemotherapy for stage IIIA non-small cell lung cancer [see comments] Rosell R, et al. **Curr Opin Oncol** 1997 Mar;9(2):149–55 (48 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):147–8.

Surgical approaches in special situations. Goldberg M. **Curr Probl Cancer** 1996 May–Jun;20(3):179–96 (96 ref.)

Surgery for non-small cell lung cancer with unsuspected metastasis to ipsilateral mediastinal or subcarinal nodes (N2 disease). De Leyn P, et al. **Eur J Cardiothorac Surg** 1996; 10(8):649–54; discussion 654–5

Prognosis of ipsilateral intrapulmonary metastases in resected nonsmall cell lung cancer. Fukuse T, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):218–23

Association of bronchial and pharyngo-laryngeal malignancies. A reappraisal. Massard G, et al. **Eur J Cardiothorac Surg** 1996;10(6):397–402

Results of surgical resection in patients over the age of 70 years with non small-cell lung cancer. Morandi U, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):432–9

Morbidity, mortality, and survival after bronchoplastic procedures for lung cancer. Rea F, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):201–5

Prognostic value of T and N in non small cell lung cancer three centimeters or less in diameter. Riquet M, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):440–3; discussion 443–4

Quality of life after surgical therapy of bronchogenic carcinoma. Zieren HU, et al. **Eur J Cardiothorac Surg** 1996; 10(4):233–7

Prognostic significance of thrombocytosis in patients with primary lung cancer. Pedersen LM, et al. **Eur Respir J** 1996 Sep;9(9):1826–30

Thoracoscopic limited resection of bronchogenic carcinoma in patients over the age of 80. Ishida T, et al. **Int Surg** 1996 Jul–Sep;81(3):237–40

Thoracoscopic-assisted pulmonary resection in lung cancer. Proot LM, et al. **Int Surg** 1996 Jul–Sep;81(3):248–51

Treatment of stage IIIB non-small-cell lung cancer with surgery followed by infusion of tumor infiltrating lymphocytes and recombinant interleukin-2: a pilot study. Melioli G, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):224–30

bcl-2 oncoprotein in surgically resected non-small cell lung cancer: possibly favorable prognostic factor in association with low incidence of distant metastasis. Higashiyama M, et al. **J Surg Oncol** 1997 Jan;64(1):48–54

Kinetic analysis of recurrence and survival after potentially curative resection of nonsmall cell lung cancer. Mitsudomi T, et al. **J Surg Oncol** 1996 Nov;63(3):159–65

Intentional limited resection for selected patients with T1 N0 M0 non-small-cell lung cancer: a single-institution study. Kodama K, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):347–53

Wedge resection versus lobectomy for stage I (T1 N0 M0) non-small-cell lung cancer. Landreneau RJ, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):691–8; discussion 698–700

Acute and chronic morbidity differences between muscle-sparing and standard lateral thoracotomies. Landreneau RJ, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1346–50; discussion 1350–1

Resection of lung cancer invading the diaphragm. Weksler B, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):500–1

The limits of surgical resection alone for non-small cell lung cancer. Johnston MR. **Lung Cancer** 1997 Jun;17 Suppl 1:S99–102 (11 ref.)

Results of surgery for bronchogenic carcinoma located in the aortic window. Saitoh Y, et al. **Lung Cancer** 1997 Aug; 18(1):47–56

Recent advances in managing non-small-cell lung cancer: 2. Surgery. McCaughan B. **Med J Aust** 1997 Jun 2;166 Suppl:S7–10

Combined resections of the diaphragm and the liver for a locally advanced non-small-cell lung cancer. Nishioka K, et al. **Respiration** 1996;63(5):314–7

Surgery for early stage non-small cell lung cancer. Feins RH. **Semin Oncol** 1997 Aug;24(4):419–22

Second lung cancers in patients successfully treated for lung cancer. Johnson BE, et al. **Semin Oncol** 1997 Aug; 24(4):492–9 (47 ref.)

The role of surgery in the multimodality management of non-small cell lung cancer. Kaiser LR, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):60–79 (79 ref.)

Video-assisted thoracoscopic lobectomy for treating lung cancer. Kawahara K, et al. **Surg Laparosc Endosc** 1997 Jun; 7(3):219–22

Bronchoplastic resection for non-small-cell lung cancer. Müller C, et al. **Thorac Cardiovasc Surg** 1996 Oct; 44(5):248–51

[Results of resection of a stage IIIA/N2 non-small cell bronchogenic carcinoma] Fiala P, et al. **Rozhl Chir** 1997 Feb;76(2):80–4 (Eng. Abstr.) **(Cze)**

[Place of radical surgery in the treatment of non-small cell lung cancer. Apropos of 969 cases] Riquet M, et al. **Cancer Radiother** 1997;1(2):165–9 (Eng. Abstr.) **(Fre)**

[Endovascular closure of a foramen ovale after a right pneumonectomy] Bombaron P, et al. **Rev Mal Respir** 1997 Apr;14(2):133–5 (Eng. Abstr.) **(Fre)**

[Lung surgery in elderly patients—an increased risk?] Gross T, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:830–3 (Eng. Abstr.) **(Ger)**

[Limits of surgery in patients with apparently localized bronchial carcinoma (pT1–3, pN0, M0)] Passlick B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:779–84 (Eng. Abstr.) **(Ger)**

[Results of surgical therapy of bronchial carcinoma in advanced age] Schneider P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:841–5 (Eng. Abstr.) **(Ger)**

[Adrenalectomy in metastasis of primary pulmonary carcinoma: an emerging issue] Motta G, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):661–7; discussion 667–8 (Eng. Abstr.) **(Ita)**

[Surgical therapy of locally advanced non-small cell lung carcinoma] Martelli M, et al. **Chir Ital** 1995;47(3):30–3 (Eng. Abstr.) **(Ita)**

[Surgical treatment of T4 primary lung cancer] Namikawa S, et al. **Kyobu Geka** 1997 Feb;50(2):90–4 (Eng. Abstr.) **(Jpn)**

[Perioperative care of patients with pulmonary dysfunction—a point of view of thoracic surgeons] Osada H. **Masui** 1996 Dec;45 Suppl:S93–9 **(Jpn)**

[Is lymph node dissection necessary in small, non-small-cell carcinoma of the lung occurring at the peripheral region?] Asamura H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):365–6 **(Jpn)**

[Postoperative follow-up results of patients with non-small cell lung cancer (stage I) who received autologous blood transfusion] Kikuchi K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):315–6 **(Jpn)**

[Advantages and disadvantages of systematically extended lymph node excision at surgery of non-small-cell carcinoma of the lung] Miyamoto H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):361–2 **(Jpn)**

[Possibility for rational mediastinal dissection in non-small-cell carcinoma of the lung] Miyamoto Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):359–60 **(Jpn)**

[Advantages and disadvantages of lymph node dissection in surgery of non-small-cell carcinoma of the lung—with special reference to a study of cases of N0-pathologic N2] Yano T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):363–4 **(Jpn)**

[Significance of preoperative mediastinoscopic examination at lymph node dissection] Yasuda Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):357–9 **(Jpn)**

[Comparison of cases with or without mediastinal lymph node excision in cases with negative findings in mediastinoscopy: evaluation based on prognosis] Yasumitsu T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar; 45(3):356–7 **(Jpn)**

THERAPY

Cisplatin, mitomycin, and vindesine followed by intraoperative and postoperative radiotherapy for stage III non-small cell lung cancer: final results of a phase II study. Aristu J, et al. **Am J Clin Oncol** 1997 Jun;20(3):276–81

Chemotherapy versus best supportive care for advanced non-small-cell lung cancer. Abang AM. **Am J Health Syst Pharm** 1996 Dec 15;53(24):2980–4

Chemotherapy plus radiotherapy compared with radiotherapy alone in the treatment of locally advanced, unresectable, non-small-cell lung cancer. A meta-analysis [published erratum appears in Ann Intern Med 1997 Apr 15;126(8):670] Pritchard RS, et al. **Ann Intern Med** 1996 Nov 1;125(9):723–9

The systemic treatment of non-small-cell lung cancer. Propper D, et al. **Ann Oncol** 1997 Mar;8(3):285–90

Recent advances in the treatment of non-small cell lung cancer. Goss GD, et al. **Anticancer Drugs** 1996 Jun; 7(4):363–85 (226 ref.)

Treatment principles in advanced non-small-cell lung cancer. Scott CL, et al. **Aust N Z J Surg** 1996 Oct; 66(10):688–93 (44 ref.)

Electrochemical treatment of lung cancer. Xin Y, et al. **Bioelectromagnetics** 1997;18(1):8–13

Transfer factor as an adjuvant to non-small cell lung cancer (NSCLC) therapy. Pilotti V, et al. **Biotherapy** 1996; 9(1–3):117–21

Postoperative immunostimulation after complete resection improves survival of patients with stage I nonsmall cell lung carcinoma. Fujisawa T, et al. **Cancer** 1996 Nov 1; 78(9):1892–8

Decline of posttreatment tumor marker levels after therapy of nonsmall cell lung cancer. A useful outcome predictor. Spiridonidis CH, et al. **Cancer** 1995 Apr 1;75(7):1586–93

Phase II study of intensive chemotherapy with carboplatin, ifosfamide and etoposide plus recombinant human granulocyte colony-stimulating factor and sequential radiotherapy in locally advanced, unresectable non-small-cell lung cancer. Scagliotti GV, et al. **Cancer Chemother Pharmacol** 1996;38(6):561–5

Optimization of chemotherapy administration for clinical 41.8 degrees C whole body hyperthermia. Katschinski DM, et al. **Cancer Lett** 1997 May 19;115(2):195–9

Treatment of non-small-cell lung cancer. Hadeed VA, et al. **Compr Ther** 1996 Oct;22(10):641–8 (33 ref.)

Preoperative chemotherapy for stage IIIa non-small cell lung cancer. Fossella FV, et al. **Curr Opin Oncol** 1996 Mar; 8(2):106–11 (41 ref.)

Stage-directed treatment guidelines. Langer C, et al. **Curr Probl Cancer** 1996 May–Jun;20(3):157–78 (99 ref.)

Newer aspects in the diagnosis, treatment, and prevention of non-small cell lung cancer. Part II. Langer CJ, et al. **Curr Probl Cancer** 1996 Jul–Aug;20(4):217–79 (380 ref.)

Phase II trial of intravenous endotoxin in patients with colorectal and non-small cell lung cancer. Otto F, et al. **Eur J Cancer** 1996 Sep;32A(10):1712–8

"Adjuvant" external radiation of the mediastinum in radically resected non-small cell lung cancer. Smolle-Juettner FM, et al. **Eur J Cardiothorac Surg** 1996;10(11):947-50; discussion 951

Survey on the treatment of non-small cell lung cancer (NSCLC) in England and Wales. Crook A, et al. **Eur Respir J** 1997 Jul;10(7):1552-8

Future directions in lung cancer research and therapeutics. Elias AD. **Hematol Oncol Clin North Am** 1997 Jun; 11(3):519-27 (8 ref.)

Modification of tumor suppressor gene expression in non-small cell lung cancer (NSCLC) with a retroviral vector expressing wildtype (normal) p53. Roth JA. **Hum Gene Ther** 1996 May 1;7(7):861-74

Modification of mutant K-ras gene expression in non-small cell lung cancer (NSCLC). Roth JA. **Hum Gene Ther** 1996 May 1;7(7):875-89

Results of a trial with topotecan dose escalation and concurrent thoracic radiation therapy for locally advanced, inoperable nonsmall cell lung cancer. Graham MV, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1215-20

Summary of the proceedings of the United States-Japan lung cancer clinical trials summit. Maui, Hawaii, 24-25 February 1996. Livingston RB, et al. **J Cancer Res Clin Oncol** 1997; 123(8):461-6

Cis/carboplatin + vinorelbine +/- radiotherapy in stage III and IV non small cell lung carcinoma. Tomirotti M, et al. **J Chemother** 1997 Feb;9(1):62-5

Clinical practice guidelines for the treatment of unresectable non-small-cell lung cancer. Adopted on May 16, 1997 by the American Society of Clinical Oncology. **J Clin Oncol** 1997 Aug;15(8):2996-3018

Potential impact on survival of improved tumor downstaging and resection rate by preoperative twice-daily radiation and concurrent chemotherapy in stage IIIA non-small-cell lung cancer. Choi NC, et al. **J Clin Oncol** 1997 Feb; 15(2):712-22

Cost of combined modality interventions for stage III non-small-cell lung cancer [see comments] Evans WK, et al. **J Clin Oncol** 1997 Sep;15(9):3038-48. Comment in: J Clin Oncol 1997 Sep;15(9):3027-9.

Effect of amifostine on toxicities associated with sequential chemotherapy and radiation therapy for unresectable non-small-cell lung cancer: results of a phase II trial. Tannehill SP, et al. **J Clin Oncol** 1997 Aug;15(8):2850-7

Treatment of stage IIIB non-small-cell lung cancer with surgery followed by infusion of tumor infiltrating lymphocytes and recombinant interleukin-2: a pilot study. Melioli G, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):224-30

Recombinant human interferon-beta (rHuIFN-beta) and radiation therapy for inoperable non-small cell lung cancer. Byhardt RW, et al. **J Interferon Cytokine Res** 1996 Nov; 16(11):891-902

Therapeutic options for regionally advanced non-small cell lung cancer. Buccheri G, et al. **Lung Cancer** 1996 Jun; 14(2-3):281-300 (85 ref.)

Survival predictors in advanced non-small cell lung cancer. Hespanhol V, et al. **Lung Cancer** 1995 Dec;13(3):253-67

Post-operative adjuvant therapy for non-small-cell lung cancer. Johnson D, et al. **Lung Cancer** 1997 Jun;17 Suppl 1:S23-5 (0 ref.)

Adjuvant chemotherapy for non-small cell lung cancer. Johnson DH. **Lung Cancer** 1997 Jun;17 Suppl 1:S103-10 (36 ref.)

Concurrent treatments and induction treatments for unresectable tumors. Klastersky J, et al. **Lung Cancer** 1997 Jun;17 Suppl 1:S27-8 (0 ref.)

Induction treatment for resectable non-small-cell lung cancer. Perry MC, et al. **Lung Cancer** 1997 Jun;17 Suppl 1:S15-8 (0 ref.)

Differences in initial treatment patterns and outcomes of lung cancer in the elderly. Smith TJ, et al. **Lung Cancer** 1995 Dec;13(3):235-52

Recent advances in managing non-small-cell lung cancer: 5. Endobronchial palliative therapy. Bowman RV. **Med J Aust** 1997 Jun 2;166 Suppl:S17-20

Clinical problem-solving. When too much is too little [see comments] Morrison RS, et al. **N Engl J Med** 1996 Dec 5;335(23):1755-9. Comment in: N Engl J Med 1997 May 15;336(20):1458; discussion 1459. Comment in: N Engl J Med 1997 May 15;336(20):1458-9; discussion 1459. Comment in: N Engl J Med 1997 May 15;336(20):1459.

Inhibition of intratracheal lung cancer development by systemic delivery of E1A. Chang JY, et al. **Oncogene** 1996 Oct 3;13(7):1405-12

Lung cancer: review of the ECOG experience. Eastern Cooperative Oncology Group. Schiller JH, et al. **Oncology** 1997 Sep-Oct;54(5):353-62 (71 ref.)

Clinical trials referral resource. High priority trials. **Oncology (Huntingt)** 1996 Feb;10(2):226, 229-30

Multidisciplinary approach to potentially curable non-small cell carcinoma of the lung. Greco FA, et al. **Oncology (Huntingt)** 1997 Jan;11(1):27-36; discussion 41, 44, 49 (62 ref.)

Chemoradiotherapy in non-small cell lung cancer: paclitaxel/carboplatin/radiotherapy in regionally advanced disease. Belani CP, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):113-6

Escalating paclitaxel doses combined with carboplatin/etoposide and thoracic radiotherapy as preoperative or definitive treatment for stage III non-small cell lung cancer. Bonomi P, et al. **Semin Oncol** 1996 Dec; 23(6 Suppl 16):102-7

Future directions in therapeutic approaches for small cell lung cancer. Bunn PA Jr. **Semin Oncol** 1996 Dec;23(6 Suppl 16):136-8

Paclitaxel plus carboplatin and concurrent radiation therapy for patients with locally advanced non-small cell lung cancer. Choy H, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):117-9

Weekly paclitaxel with and without concurrent radiation therapy: toxicity, pharmacokinetics, and response. Glantz MJ, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):128-35

Gemcitabine plus radiotherapy for non-small cell lung cancer. Gregor A. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-39-S8-41

Overview of the randomized phase III trials in non-small cell lung cancer in North America. Kelly K. **Semin Oncol** 1997 Jun;24(3 Suppl 8):S8-2-S8-5 (10 ref.)

Phase I/II study of paclitaxel and radiotherapy in non-small cell lung cancer. Marangolo M, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):124-7

Combined modality therapy of non-small cell lung cancer. Ruckdeschel JC. **Semin Oncol** 1997 Aug;24(4):429-39 (110 ref.)

Introduction to the treatment of lung cancer. Splinter TA. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12-1-S12-5 (44 ref.)

Paclitaxel and simultaneous radiation in locally advanced stage IIIA/B non-small cell lung cancer: a clinical phase I study. Vogt HG, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):120-3

Paclitaxel and simultaneous radiation in the treatment of stage IIIA/B non-small cell lung cancer. Wolf M, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):108-12

Clinical trials in lung cancer: nihilism versus enthusiasm. Spiro SG. **Thorax** 1997 Jul;52(7):598-604 (20 ref.)

[Therapy of non-small cell lung cancer] Klášterský J. **Cas Lek Cesk** 1997 Apr 2;136(7):199-204 (38 ref.) (Eng. Abstr.) **(Cze)**

[New therapeutic strategies and current research in inoperable locally advanced non small-cell lung cancers (stage IIIB)] Le Cesne A, et al. **Bull Cancer** 1997 Apr; 84(4):413-9 (45 ref.) (Eng. Abstr.) **(Fre)**

[Concomitant radiochemotherapy in inoperable non-small cell lung cancer] Hennequin C, et al. **Cancer Radiother** 1997;1(2):143-7 (Eng. Abstr.) **(Fre)**

[Biological basis of combined chemo-radiotherapy. Applications to lung cancers] Mornex F, et al. **Cancer Radiother** 1997;1(1):29-41 (70 ref.) (Eng. Abstr.) **(Fre)**

[Neoadjuvant combined therapy in stage IIIA if non-small-cell bronchial cancer] Thomas M, et al. **Dtsch Med Wochenschr** 1997 Aug 15;122(33):993-8 (Eng. Abstr.) **(Ger)**

[With reference to later intra-/extrathoracic recurrence manifestations also after so-called radical operation: when are (neo-)adjuvant measures indicated?] Drings P. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:805-9 (20 ref.) (Eng. Abstr.) **(Ger)**

[Regression grading of neoadjuvant non-small-cell lung carcinoma treatment] Junker K, et al. **Pathologe** 1997 Mar; 18(2):131-40 (Eng. Abstr.) **(Ger)**

[Current status of interdisciplinary therapy of stage III non-small-cell bronchial carcinoma] Manegold C, et al. **Pneumologie** 1996 Oct;50(10):735-41 (52 ref.) **(Ger)**

[Gene therapy with wild-type p53 in lung tumors] Dunst J. **Strahlenther Onkol** 1997 Aug;173(8):431-2 **(Ger)**

[Concurrent radiotherapy and chemotherapy for non-small-cell lung cancer--continuous infusion of low dose cisplatin and 5-FU] Itoh Y, et al. **Gan To Kagaku Ryoho** 1996 Oct;23(12):1721-4 **(Jpn)**

[Lung cancer. A therapeutic challenge] Sörenson S. **Lakartidningen** 1997 Apr 16;94(16):1475-7 **(Swe)**

ULTRASTRUCTURE

Integrity of the 1,25-dihydroxyvitamin D3 receptor in bone, lung, and other cancers. Miller CW, et al. **Mol Carcinog** 1997 Aug;19(4):254-7

CARCINOMA, OAT CELL see **CARCINOMA, SMALL CELL**

CARCINOMA, PAPILLARY

Papillary parathyroid adenoma. A rare occurrence and its importance in differentiation from papillary carcinoma of the thyroid. Ho KJ. **Arch Pathol Lab Med** 1996 Sep; 120(9):883-4

Papillary microcarcinoma of the thyroid gland. Bramley MD, et al. **Br J Surg** 1996 Dec;83(12):1674-83 (93 ref.)

Papillary thyroid cancer in Saudi Arabia. Clinical, pathologic, and management characteristics. al-Nuaim AR, et al. **Clin Nucl Med** 1996 Apr;21(4):307-11

Well differentiated thyroid carcinoma. LiVolsi VA. **Clin Oncol (R Coll Radiol)** 1996;8(5):281-8 (103 ref.)

Differentiated thyroid carcinoma in children and adolescents: a 37-year experience in 85 patients. Dottorini ME, et al. **J Nucl Med** 1997 May;38(5):669-75

Thyroglossal duct carcinoma: report of 12 cases. Heshmati HM, et al. **Mayo Clin Proc** 1997 Apr;72(4):315-9

Superficial bladder cancer: decreasing the risk of recurrence. Grossman HB. **Oncology (Huntingt)** 1996 Nov; 10(11):1617-24; discussion 1624, 1627-8 (59 ref.)

[Interesting development of 4 cases of urothelial carcinoma of the upper urinary tract] Chwajol B, et al. **Rozhl Chir** 1996 Dec;75(12):594-8 (Eng. Abstr.) **(Cze)**

[Differentiated thyroid cancer in Arabs in northern Israel] Zidan J, et al. **Harefuah** 1997 Jan 1;132(1):6-9, 72 (Eng. Abstr.) **(Heb)**

[Thyroid carcinoma. Retrospective analysis of case records of the III. Surgery Department at the Umberto I Clinics in Rome in the years 1990-93] Picchi P, et al. **Minerva Endocrinol** 1996 Dec;21(4):115-21 (Eng. Abstr.) **(Ita)**

[Metastatic cardiac tamponade in a patient with papillary carcinoma of the thyroid (letter)] Puigfel M, et al. **Med Clin (Barc)** 1996 Jun 29;107(5):197-8 **(Spa)**

BLOOD

The predictive value of serum thyroglobulin in the follow-up of differentiated thyroid cancer. Roelants V, et al. **Eur J Nucl Med** 1997 Jul;24(7):722-7

[A case with thyroid carcinoma associated with falsely increased TSH values] Kobayashi K, et al. **Nippon Geka Gakkai Zasshi** 1997 Jan;98(1):68-70 (Eng. Abstr.) **(Jpn)**

BLOOD SUPPLY

[Vascularization of single thyroid nodule as an indicator malignant neoplasm: a study using echo-color-Doppler] Urso M, et al. **Ann Ital Med Int** 1996 Jul-Sep;11(3):175-9 (Eng. Abstr.) **(Ita)**

CHEMISTRY

Expression of laminin in renal-cell carcinomas, renal-cell carcinoma cell lines and xenografts in nude mice. Lohi J, et al. **Int J Cancer** 1996 Nov 4;68(3):364-71

Cytoplasmic biotin-like activity interferes with immunohistochemical analysis of thyroid lesions: a comparison of antigen retrieval methods. Kashima K, et al. **Mod Pathol** 1997 May;10(5):515-9

Intraductal papillary-mucinous neoplasm of the pancreas: a report of five cases with immunohistochemical findings. Kench JG, et al. **Pathology** 1997 Feb;29(1):7-11

CLASSIFICATION

Papillary carcinoma of the thyroid with stromal lymphoid infiltrate [letter; comment] Harach HR, et al. **Am J Surg Pathol** 1997 Jun;21(6):737-9. Comment on: Am J Surg Pathol 1995 Jul;19(7):810-4. Comment on: Am J Surg Pathol 1996 Jun;20(6):695-8.

COMPLICATIONS

Papillary thyroid carcinoma associated with squamous cell carcinoma of the head and neck: significance and treatment [clinical conference] Pitman KT, et al. **Am J Otolaryngol** 1996 May-Jun;17(3):190-6

Autonomous thyroid adenoma, papillary thyroid carcinoma, and ectopic parathyroid adenoma in a patient with primary hyperparathyroidism and a nontoxic multinodular goiter. Kirkwood ID, et al. **Clin Nucl Med** 1997 Jul;22(7):491-3

Primary papillary carcinoma arising in a thyroglossal duct cyst. Martín-Pérez E, et al. **Eur J Surg** 1997 Feb; 163(2):143-5

66-year-old woman with joint pain and urinary frequency. Harrington JL, et al. **Mayo Clin Proc** 1997 Mar;72(3):281-4

Papillary carcinoma arising in a thyroglossal duct cyst. Wigley TL, et al. **Otolaryngol Head Neck Surg** 1997 Mar; 116(3):386-8

Presentation and management of a thyroglossal duct cyst with a papillary carcinoma. Walton BR, et al. **South Med J** 1997 Jul;90(7):758-61 (24 ref.)

Radioiodine treatment of thyroid carcinoma in patients on maintenance hemodialysis. Daumerie C, et al. **Thyroid** 1996 Aug;6(4):301-4

Thyroid papillary carcinoma arising in a branchial cleft cyst. Jadusingh W, et al. **West Indian Med J** 1996 Dec; 45(4):122-4

[Differentiated thyroid cancer revealed by cervical adenopathy] Rodier JF, et al. **Ann Endocrinol (Paris)** 1997; 58(3):268-71 (28 ref.) **(Fre)**

[Paraneoplastic superior vena cava thrombosis disclosing an ovarian tumor] Padovani M, et al. **Rev Mal Respir** 1996 Dec;13(6):598-600 (Eng. Abstr.) **(Fre)**

[Thyroid cancer and Hashimoto's thyroiditis] Reda G, et al. **Minerva Chir** 1997 Jan-Feb;52(1-2):139-41 (12 ref.) (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Tall cell variant of papillary thyroid carcinoma. A cytohistologic correlation. Gamboa-Domínguez A, et al. **Acta Cytol** 1997 May-Jun;41(3):672-6

Clinical presentations and treatment for 74 occult thyroid carcinoma. Comparison with nonoccult thyroid carcinoma in Taiwan. Lin JD, et al. **Am J Clin Oncol** 1996 Oct; 19(5):504-8

Pancreatic mucinous ductal ectasia and intraductal papillary neoplasms. A single malignant clinicopathologic entity. Rivera JA, et al. **Ann Surg** 1997 Jun;225(6):637-44; discussion 644-6

Papillary transitional cell carcinoma arising in a calyceal cyst and masquerading as a renal cyst. Mai KT, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):879–82

Fine needle aspiration cytology of papillary carcinoma thyroid with Hashimoto's thyroiditis—report of two cases. Patil PV, et al. **Indian J Pathol Microbiol** 1997 Apr; 40(2):165–8

Is screening for thyroid carcinoma indicated in familial adenomatous polyposis? The Leeds Castle Polyposis Group. Bülow C, et al. **Int J Colorectal Dis** 1997; 12(4):240–2

Thyroglobulin determination, neck ultrasonography and iodine–131 whole–body scintigraphy in differentiated thyroid carcinoma. Franceschi M, et al. **J Nucl Med** 1996 Mar;37(3):446–51

Choroid plexus carcinoma: a report of two cases and review of the literature. Geerts Y, et al. **Neuropediatrics** 1996 Jun; 27(3):143–8 (65 ref.)

Thyroid cancers. I. Papillary, follicular, and Hürthle cell. Goldman ND, et al. **Otolaryngol Clin North Am** 1996 Aug; 29(4):593–609 (41 ref.)

Insular component as a risk factor of thyroid carcinoma. Sasaki A, et al. **Pathol Int** 1996 Dec;46(12):939–46

Residents' teaching files. Papillary renal cell carcinoma: diagnostic dilemma of a cystic renal mass. Roberts SC 3rd, et al. **Radiographics** 1997 Jul–Aug;17(4):993–8

Differential reactivity of HBME–1 and CD15 antibodies in benign and malignant thyroid tumours. Preferential reactivity with malignant tumours. Miettinen M, et al. **Virchows Arch** 1996 Nov;429(4–5):213–9

[Clinical aspects and preoperative diagnosis in differentiated thyroid gland carcinoma] Mann K, et al. **Zentralbl Chir** 1997;122(4):246–51 (41 ref.) (Eng. Abstr.) **(Ger)**

[Hyperthyroidism and carcinoma of the thyroid gland] Ardito G, et al. **Ann Ital Chir** 1997 Jan–Feb;68(1):23–7; discussion 27–8 (Eng. Abstr.) **(Ita)**

[Solid papillary tumor of the pancreas. A clinical case] Bulligan MG, et al. **Minerva Chir** 1996 Nov;51(11):983–8 (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Treatment of radioiodine–negative bone metastasis from papillary thyroid carcinoma with percutaneous ethanol injection therapy. Nakada K, et al. **Ann Nucl Med** 1996 Nov;10(4):441–4

Urinary bladder cancer in a girl with a slow–acetylator genotype and treated with sulphasalazine. Espin Jaime MT, et al. **Br J Urol** 1997 Jul;80(1):151–2

Altered bioavailability due to changes in the formulation of a commercial preparation of levothyroxine in patients with differentiated thyroid carcinoma. Olveira G, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):707–11

Effects of intravesical instillation of 5–fluorouracil and interferon in patients with recurrent superficial urinary bladder carcinoma. A clinical and pharmacodynamic study. Hugosson J, et al. **Scand J Urol Nephrol** 1997 Aug; 31(4):343–7

[A case of advanced breast cancer receiving combination therapy with 5'–DFUR and MPA with remarkable results] Nishibe M, et al. **Gan To Kagaku Ryoho** 1997 Jul; 24(9):1149–52 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Parental cancer and risk of papillary and follicular thyroid carcinoma. Galanti MR, et al. **Br J Cancer** 1997;75(3):451–6

Risk factors of thyroid cancer among women in Tokai, Japan. Takezaki T, et al. **J Epidemiol** 1996 Sep;6(3):140–7

ETIOLOGY

Reproductive history and cigarette smoking as risk factors for thyroid cancer in women: a population–based case–control study. Galanti MR, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):425–31

Thyroid cancer and the Chernobyl accident. Are long–term and long distance side effects of fall–out radiation greater than estimated? [letter; comment] Cetta F, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):2015–7. Comment on: J Clin Endocrinol Metab 1996 Jan;81(1):6–8. Comment on: J Clin Endocrinol Metab 1996 Jan;81(1);9–14.

[Familial adenomatous polyposis and thyroid cancer] Paraf F, et al. **Gastroenterol Clin Biol** 1997;21(1):74–7 (20 ref.) (Eng. Abstr.) **(Fre)**

[Ionizing irradiation as a risk factor in thyroid cancer. A case report] Pichi Graziani M, et al. **Minerva Chir** 1996 May;51(5):355–8 (Eng. Abstr.) **(Ita)**

GENETICS

Heterogeneity of DNA distribution pattern in renal tumours. Nenning H, et al. **Anal Cell Pathol** 1997;14(1):9–17

Parental cancer and risk of papillary and follicular thyroid carcinoma. Galanti MR, et al. **Br J Cancer** 1997;75(3):451–6

Trisomy 20 in a papillary urothelial carcinoma of the ureter. Grammatico P, et al. **Cancer Genet Cytogenet** 1996 Sep; 90(2):132–4

Cytogenetic and molecular genetic characterization of a chromosome 2 rearrangement in a case of human papillary thyroid carcinoma with radiation history. Lehmann L, et al. **Cancer Genet Cytogenet** 1997 Jul 1;96(1):30–6

Distinct pattern of ret oncogene rearrangements in morphological variants of radiation–induced and sporadic thyroid papillary carcinomas in children. Nikiforov YE, et al. **Cancer Res** 1997 May 1;57(9):1690–4

Rapid detection of specific messenger RNAs in thyroid carcinomas by reverse transcription–PCR with degenerate primers: specific expression of oncofetal fibronectin messenger RNA in papillary carcinoma. Takano T, et al. **Cancer Res** 1997 Sep 1;57(17):3792–7

Absence of G(s)alpha gene mutations in childhood thyroid tumors after Chernobyl in contrast to sporadic adult thyroid neoplasia. Waldmann V, et al. **Cancer Res** 1997 Jun 15;57(12):2358–61

Ret and trk proto–oncogene activation in thyroid papillary carcinomas in French patients from the Champagne–Ardenne region. Delvincourt C, et al. **Clin Biochem** 1996 Jun;29(3):267–71

Chromosome imbalances in papillary renal cell carcinoma and first cytogenetic data of familial cases analyzed by comparative genomic hybridization. Bentz M, et al. **Cytogenet Cell Genet** 1996;75(1):17–21

A novel multicolor hybridization scheme applied to localization of a transcribed sequence (D10S170/H4) and deletion mapping in the thyroid cancer cell line TPC–1. Jossart GH, et al. **Cytogenet Cell Genet** 1996;75(4):254–7

Molecular cloning of the papillary renal cell carcinoma–associated translocation (X;1)(p11;q21) breakpoint. Weterman MA, et al. **Cytogenet Cell Genet** 1996;75(1):2–6

Bellini duct carcinoma. A clinical and in vitro study. Cavazzana AO, et al. **Eur Urol** 1996;30(3):340–4

Comparison of the breakpoint regions of ELE1 and RET genes involved in the generation of RET/PTC3 oncogene in sporadic and in radiation–associated papillary thyroid carcinomas. Bongarzone I, et al. **Genomics** 1997 Jun 1; 42(2):252–9

Targeted oncogenesis in the thyroid of transgenic mice. Feunteun J, et al. **Horm Res** 1997;47(4–6):137–9 (30 ref.)

Protein kinase C alpha and tumorigenesis of the endocrine gland. Prévostel C, et al. **Horm Res** 1997;47(4–6):140–4

The t(X;1)(p11.2;q21.2) translocation in papillary renal cell carcinoma fuses a novel gene PRCC to the TFE3 transcription factor gene. Sidhar SK, et al. **Hum Mol Genet** 1996 Sep;5(9):1333–8

Nuclear overexpression of p53 protein does not correlate with gene mutation in primary peritoneal carcinoma. Marchenko ND, et al. **Hum Pathol** 1997 Sep;28(9):1002–6

Prognostic significance of nuclear DNA content and S–phase fraction by flow cytometry in primary papillary superficial bladder cancer. Tětu B, et al. **Hum Pathol** 1996 Sep; 27(9):922–6

An allelotype of papillary thyroid cancer. Califano JA, et al. **Int J Cancer** 1996 Dec 20;69(6):442–4

Chromosome translocations in thyroid tissues from Belarussian children exposed to radioiodine from the Chernobyl accident, measured by FISH–painting. Lehmann L, et al. **Int J Radiat Biol** 1996 Nov;70(5):513–6

Two families with an autosomal dominant inheritance pattern for papillary carcinoma of the thyroid. Burgess JR, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):345–8

Prevalence, significance, and biological behavior of ret/PTC1 associated papillary thyroid carcinoma [letter; comment] Cetta F. **J Clin Endocrinol Metab** 1997 May; 82(5):1650. Comment on: J Clin Endocrinol Metab 1996 Sep;81(9):3360–5.

p53 gene mutations in radiation–induced thyroid cancer. Fogelfeld L, et al. **J Clin Endocrinol Metab** 1996 Aug; 81(8):3039–44

Imaging features of hereditary papillary renal cancers. Choyke PL, et al. **J Comput Assist Tomogr** 1997 Sep–Oct; 21(5):737–41

Simultaneous chromosome 7 and 17 gain and sex chromosome loss provide evidence that renal metanephric adenoma is related to papillary renal cell carcinoma. Brown JA, et al. **J Urol** 1997 Aug;158(2):370–4

Expression of the RET/PTC fusion gene as a marker for papillary carcinoma in Hashimoto's thyroiditis. Wirtschafter A, et al. **Laryngoscope** 1997 Jan;107(1):95–100

Germline and somatic mutations in the tyrosine kinase domain of the MET proto–oncogene in papillary renal carcinomas. Schmidt L, et al. **Nat Genet** 1997 May; 16(1):68–73

Molecular and biochemical analysis of RET/PTC4, a novel oncogenic rearrangement between RET and ELE1 genes, in a post–Chernobyl papillary thyroid cancer. Fugazzola L, et al. **Oncogene** 1996 Sep 5;13(5):1093–7

Fusion of the transcription factor TFE3 gene to a novel gene, PRCC, in t(X;1)(p11;q21)–positive papillary renal cell carcinomas. Weterman MA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15294–8

Expression of wild–type p53 tumor suppressor gene and its possible involvement in the apoptosis of thyroid tumors. Kikuchi S, et al. **Surg Today** 1997;27(3):226–33

A frequent mutation/polymorphism in tumor suppressor gene INK4B (MTS–2) in papillary and medullary thyroid cancer. Goretzki PE, et al. **Surgery** 1996 Dec;120(6):1081–8

Familial papillary carcinoma of the thyroid. Kraimps JL, et al. **Surgery** 1997 Jun;121(6):715–8

The RET proto–oncogene in medullary and papillary thyroid carcinoma. Molecular features, pathophysiology and clinical implications. Komminoth P. **Virchows Arch** 1997 Jul;431(1):1–9 (109 ref.)

[Expression of protooncogene bcl–2 in thyroid tumors] Zhu J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Nov; 76(11):829–31 (Eng. Abstr.) **(Chi)**

[Gardner syndrome and thyroid gland carcinoma (editorial; comment)] Möslein G. **Langenbecks Arch Chir** 1997; 382(2):59–60. Comment on: Langenbecks Arch Chir 1997 ;382(2):61–3. **(Ger)**

[Gardner syndrome and thyroid gland carcinoma (see comments)] Sailer M, et al. **Langenbecks Arch Chir** 1997; 382(2):61–3 (Eng. Abstr.). Comment in: Langenbecks Arch Chir 1997 ;382(2):59–60. **(Ger)**

[Immunoreactivity of nuclear protein p53 in differentiated thyroid cancers] Dedov II, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):645–7 **(Rus)**

IMMUNOLOGY

Identification of a 35 kD tumor–associated autoantigen in papillary thyroid carcinoma. Lucas SD, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2493–6

An immunohistochemical study of leu 7 and PCNA expression in thyroid neoplasms. Fucich LF, et al. **Biotech Histochem** 1996 Nov;71(6):298–303

Selective expression of CD44 cell–adhesion molecule in thyroid papillary carcinoma fine–needle aspirates. Ross JS, et al. **Diagn Cytopathol** 1996 Jun;14(4):287–91

HLA–DR expression and lymphocytic infiltration in metastatic and non–metastatic papillary carcinoma of the thyroid. Feinmesser M, et al. **Eur J Surg Oncol** 1996 Oct; 22(5):494–501

Tumor–specific deposition of immunoglobulin G and complement in papillary thyroid carcinoma. Lucas SD, et al. **Hum Pathol** 1996 Dec;27(12):1329–35

In situ evidence of neoplastic cell phagocytosis by macrophages in papillary thyroid cancer. Fiumara A, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1615–20

Immune response to papillary thyroid carcinoma [letter; comment] Juhasz F, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4175–6. Comment on: J Clin Endocrinol Metab 1995 Dec;80(12):3419–20. Comment on: J Clin Endocrinol Metab 1995 Dec;80(12):3421–4.

Intercellular adhesion molecule–1 (ICAM–1) immunoreactivity in well–differentiated thyroid papillary carcinomas. Tanda F, et al. **Mod Pathol** 1996 Jan;9(1):53–6

METABOLISM

Human malignant thyroid tumors displayed reduced levels of transforming growth factor beta receptor type II messenger RNA and protein. Lazzereschi D, et al. **Cancer Res** 1997 May 15;57(10):2071–6

Somatostatin receptor scintigraphy in non–medullary thyroid cancer. Postema PT, et al. **Digestion** 1996;57 Suppl 1:36–7

Expression of insulin–like growth factor binding proteins (IGFBPs) in human thyroid papillary cancer tissues. Isozaki O, et al. **Endocr J** 1996 Oct;43 Suppl:S97–8

Simultaneous expression of keratan sulphate epitope (a sulphated poly–N–acetyllactosamine) and blood group ABH antigens in papillary carcinomas of the human thyroid gland. Ito N, et al. **Histochem J** 1996 Sep;28(9):613–23

Proliferating cell nuclear antigen expression in papillary thyroid carcinoma. Ando H, et al. **J Clin Pathol** 1996 Aug; 49(8):657–9

Expression of Met protein in thyroid tumours. Ruco LP, et al. **J Pathol** 1996 Nov;180(3):266–70

Overexpression of p53 in tall cell variants of papillary thyroid carcinoma. Rüter A, et al. **Surgery** 1996 Dec;120(6):1046–50

Desensitization of cyclic adenosine 3,5'–monophosphate response to thyrotropin in normal and primary or metastatic papillary thyroid cancer cells in vitro. Tezelman S, et al. **Surgery** 1996 Dec;120(6):926–33

Bcl–2 and Bax expression in thyroid tumours. An immunohistochemical and western blot analysis. Manetto V, et al. **Virchows Arch** 1997 Feb;430(2):125–30

MORTALITY

Risk group stratification and prognostic factors in papillary carcinoma of thyroid. Shaha AR, et al. **Ann Surg Oncol** 1996 Nov;3(6):534–8

Survival of differentiated thyroid carcinoma studied in 500 patients. Lerch H, et al. **J Clin Oncol** 1997 May; 15(5):2067–75

[Identification and validation of prognostic factors in differentiated thyroid carcinoma] Gómez Arnaiz N, et al. **Med Clin (Barc)** 1997 Jan 18;108(2):45–9 (Eng. Abstr.) **(Spa)**

NURSING

Surgical treatment for thyroid cancer. Moore S, et al. **AORN J** 1997 Apr;65(4):710–2, 714–6, 719–22 passim

PATHOLOGY

Fine needle aspiration cytology of the oxyphil variant of papillary carcinoma of the thyroid. A report of three cases. Doria MI Jr, et al. **Acta Cytol** 1996 Sep–Oct;40(5):1007–11

Cytologic characteristics of pediatric thyroid carcinoma around Chernobyl, Republic of Belarus [letter] Ito M, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1642–4

Multinucleated giant cells in thyroid neoplasms. A cytologic, histologic and immunohistochemical study. Tabbara SO, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1184–8

Cytologic findings in thyroglossal duct carcinoma [see comments] Bardales RH, et al. **Am J Clin Pathol** 1996 Nov; 106(5):615–9 (20 ref.). Comment in: Am J Clin Pathol 1996

Nov;106(5):559–60.
Cytologic findings in thyroid nodules after 131I treatment of hyperthyroidism. Granter SR, et al. **Am J Clin Pathol** 1997 Jan;107(1):20–5
Multinucleate giant cells in papillary thyroid carcinoma. A morphologic and immunohistochemical study. Guiter GE, et al. **Am J Clin Pathol** 1996 Dec;106(6):765–8
Papillary carcinoma associated with black thyroid gland. Onyia JN, et al. **Am J Otolaryngol** 1996 Sep–Oct; 17(5):299–302 (20 ref.)
Solid papillary carcinoma of the breast [letter; comment] Quinn CM, et al. **Am J Surg Pathol** 1997 Feb;21(2):256–8 . Comment on: Am J Surg Pathol 1995 Nov;19(11):1237–44.
True papillary carcinoma of the lung: a distinct clinicopathologic entity. Silver SA, et al. **Am J Surg Pathol** 1997 Jan;21(1):43–51
Papillary urothelial hyperplasia. A precursor to papillary neoplasms. Taylor DC, et al. **Am J Surg Pathol** 1996 Dec; 20(12):1481–8
Cytologic morphometric approach for the prediction of lymph node involvement in papillary thyroid cancer. Nagashima T, et al. **Anal Quant Cytol Histol** 1997 Feb; 19(1):49–54
Preservation of recurrent laryngeal nerve invaded by differentiated thyroid cancer. Nishida T, et al. **Ann Surg** 1997 Jul;226(1):85–91
Relationship between prognostic score and thyrotropin receptor (TSH-R) in papillary thyroid carcinoma: immunohistochemical detection of TSH-R. Tanaka K, et al. **Br J Cancer** 1997;76(5):594–9
Cutaneous metastases from a papillary thyroid carcinoma [letter] Makris A, et al. **Br J Dermatol** 1996 Nov; 135(5):860–1
CD44 immunostaining of thyroid fine-needle aspirates differentiates thyroid papillary carcinoma from other lesions with nuclear grooves and inclusions. Chhieng DC, et al. **Cancer** 1997 Jun 25;81(3):157–62
Quantitative and qualitative differences in growth, invasion and lung colonization of an anaplastic and a papillary human thyroid cancer cell line in vitro and in vivo [published erratum appears in Clin Exp Metastasis 1997 Jan;15(1):76] Boghaert ER, et al. **Clin Exp Metastasis** 1996 Oct;14(5):440–50
Poorly differentiated carcinoma of the thyroid: an aggressive type of tumour arising from thyroid follicular epithelium. Sakamoto A. **Curr Top Pathol** 1997;91:45–50 (22 ref.)
Tall cell variant of papillary thyroid carcinoma: cytologic features and differential diagnostic considerations. Bocklage T, et al. **Diagn Cytopathol** 1997 Jul;17(1):25–9
Papillary tissue fragments as a diagnostic pitfall in fine-needle aspirations of thyroid nodules. Faser CR, et al. **Diagn Cytopathol** 1997 May;16(5):454–9
Fine-needle aspiration of well differentiated small-cell duct carcinoma of the breast. Fiorella RM, et al. **Diagn Cytopathol** 1997 Mar;16(3):226–9
Follicular variant of papillary carcinoma of the thyroid: fine-needle aspirates with histologic correlation. Gallagher J, et al. **Diagn Cytopathol** 1997 Mar;16(3):207–13
Thymoma mimicking thyroid papillary carcinoma: another pitfall in fine-needle aspiration. Oertel YC. **Diagn Cytopathol** 1997 Jul;17(1):61–3
Papillary thyroid microcarcinoma: clinical study and prognosis. Rodriguez JM, et al. **Eur J Surg** 1997 Apr; 163(4):255–9
Findings of computerized nuclear morphometry of papillary thyroid carcinoma in correlation with the age of the patients. Tseleni S, et al. **Gen Diagn Pathol** 1997 Jul; 143(1):23–7
Simultaneous occurrence of a medullary and a papillary thyroid carcinoma in the same patient. Tseleni-Balafouta S, et al. **Gen Diagn Pathol** 1997 Jun;142(5–6):371–4
Malignant struma ovarii. A case report and review of the literature. Berghella V, et al. **Gynecol Obstet Invest** 1997; 43(1):68–72 (20 ref.)
Papillary cystic neoplasm of the pancreas: a description of two clinical cases. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1122–5
Localization of binding sites of Ulex europaeus I, Helix pomatia and Griffonia simplicifolia I-B4 lectins and analysis of their backbone structures by several glycosidases and poly-N-acetyllactosamine-specific lectins in human breast carcinomas. Ito N, et al. **Histochem Cell Biol** 1996 Sep; 106(3):331–9
Langerhans cell histiocytosis of lymph nodes: draining a papillary carcinoma of the thyroid. Safali M, et al. **Histopathology** 1997 Jun;30(6):599–603
The oncocytic variant of papillary carcinoma of the thyroid: a clinicopathologic study of 15 cases. Berho M, et al. **Hum Pathol** 1997 Jan;28(1):47–53
Columnar cell carcinoma of the thyroid: report of three additional cases. Ferreiro JA, et al. **Hum Pathol** 1996 Nov; 27(11):1156–60 (18 ref.)
Papillary thyroid carcinoma in three siblings with familial adenomatous polyposis. Civitelli S, et al. **Int J Colorectal Dis** 1996;11(1):34–7
Skull metastasis with brain invasion from thyroid papillary microcarcinoma. Lin KD, et al. **J Formos Med Assoc** 1997 Apr;96(4):280–2
Papillary ependymoma: its differential diagnosis from choroid plexus papilloma. Park SH, et al. **J Korean Med Sci** 1996 Oct;11(5):415–21
Prognostic features in tall cell papillary carcinoma and insular thyroid carcinoma. van den Brekel MW, et al. **Laryngoscope** 1997 Feb;107(2):254–9
Simultaneous medullary carcinoma, occult papillary carcinoma and lymphocytic thyroiditis. Darwish A, et al. **Malays J Pathol** 1995 Dec;17(2):103–7
Papillary renal cell carcinoma: a clinicopathologic and immunohistochemical study of 105 tumors. Delahunt B, et al. **Mod Pathol** 1997 Jun;10(6):537–44
Occult micropapillary carcinoma associated with benign follicular thyroid disease and unrelated thyroid neoplasms. Fink A, et al. **Mod Pathol** 1996 Aug;9(8):816–20
Intercellular adhesion molecule-1 (ICAM-1) immunoreactivity in well-differentiated thyroid papillary carcinomas. Tanda F, et al. **Mod Pathol** 1996 Jan;9(1):53–6
Clear nuclei of papillary thyroid carcinoma conspicuous in fine-needle aspiration and intraoperative smears processed by ultrafast papanicolaou stain. Yang GC, et al. **Mod Pathol** 1997 Jun;10(6):552–5
Papillary carcinoma of the thyroid originating in a thyroglossal cyst. Report of a case and diagnostic criteria. Kojima Y, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Jul–Aug;58(4):238–41
Oncofetal expression of blood group-related antigen on morules in thyroid carcinoma. Okamoto Y, et al. **Pathol Int** 1996 Nov;46(11):867–73
Papillary and mucoepidermoid carcinoma of the thyroid with anaplastic transformation: a case report with histologic and immunohistochemical findings that support a provocative histogenetic hypothesis. Cameselle-Teijeiro J, et al. **Pathol Res Pract** 1995 Dec;191(12):1214–21
Special features of childhood and juvenile thyroid carcinomas. Balázs G, et al. **Surg Today** 1996;26(7):536–40
Overexpression of p53 in tall cell variants of papillary thyroid carcinoma. Rüter A, et al. **Surgery** 1996 Dec;120(6):1046–50
Primary thyroidlike carcinoma of the kidney. Angell SK, et al. **Urology** 1996 Oct;48(4):632–5
Thyroid papillary carcinoma arising in a branchial cleft cyst. Jadusingh W, et al. **West Indian Med J** 1996 Dec; 45(4):122–4
Tall-cell variant of papillary thyroid cancer: disregarded entity? Rüter A, et al. **World J Surg** 1997 Jan;21(1):15–20; discussion 20–1
[Papillary microcarcinoma] Latapie JL, et al. **Ann Endocrinol (Paris)** 1997;58(3):251–3 (39 ref.) (Eng. Abstr.) **(Fre)**
[Value of scintigraphic explorations by radiomarkers others than iodine radioisotope in differentiated thyroid cancer] Sassolas G, et al. **Ann Endocrinol (Paris)** 1997;58(1):55–63 (Eng. Abstr.) **(Fre)**
[Autonomy and malignancy of thyroid glad tumors. A critical analysis of the literature on the existence of hyperfunctioning follicular and papillary thyroid gland carcinomas] Schröder S, et al. **Pathologe** 1996 Sep; 17(5):349–57 (74 ref.) (Eng. Abstr.) **(Ger)**
[Significance of lymph node metastases of differentiated thyroid gland carcinomas and C-cell carcinomas for prognosis--a meta-analysis] Witte J, et al. **Zentralbl Chir** 1997;122(4):259–65 (Eng. Abstr.) **(Ger)**
[A case of thyroid cancer invading into mediastinum that was in need of resection of both innominate veins for complete cure] Tarao M, et al. **Kyobu Geka** 1997 Jul; 50(7):531–4 (Eng. Abstr.) **(Jpn)**
[A study of papillary renal cell carcinoma. Clinicopathological, immunohistochemical features and its typing] Ono Y, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jun;88(6):587–95 (Eng. Abstr.) **(Jpn)**
[Thyroid nodule in Basedow-Graves disease and thyroid cancer: experience in 6 patients] Piraino P, et al. **Rev Med Chil** 1995 Nov;123(11):1402–8 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Alterations in TNF-alpha signal transduction in resistant human papillary thyroid carcinoma cells. Pang XP, et al. **Thyroid** 1996 Aug;6(4):313–7
[PATHYPRE: Pascal program for the estimation of the individual course of patients with papillary thyroid cancer] Esik O, et al. **Orv Hetil** 1997 Apr 13;138(15):939–42 (Eng. Abstr.) **(Hun)**

PREVENTION & CONTROL

Inhibition of mammary carcinogenesis in rats by parenteral high-dose vitamin E [letter] Omer B, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):972–3

RADIOGRAPHY

Radiological case of the month. Metastatic papillary carcinoma of the thyroid seen as a miliary pattern on chest radiograph. Wallis CE. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):423–4
Papillary carcinoma of the thyroid metastatic to the parapharyngeal space. Sirotnak JJ, et al. **Ear Nose Throat J** 1997 May;76(5):342–4 (9 ref.)
[Herald's lesion with a localization in the bladder. Apropos of a case] Benchekroun A, et al. **J Urol (Paris)** 1996; 102(4):157–60 (Eng. Abstr.) **(Fre)**
[Diagnostic difficulties and value of partial surgery in multiple tumors of the kidney. Apropos of 4 cases] De la Taille A, et al. **J Urol (Paris)** 1996;102(4):139–43 (Eng. Abstr.) **(Fre)**
[Papillary cystic tumor of the pancreas] Merkle E, et al. **Rontgenpraxis** 1996 Feb;49(2):35–6 **(Ger)**

RADIONUCLIDE IMAGING

Double-phase scanning of the thyroid gland with Tc-99m MIBI in a patient with a malignant nodule. A case of tracer redistribution? Alonso O, et al. **Clin Nucl Med** 1997 Jun; 22(6):413–4
Visualization of papillary thyroid carcinoma and its metastatic lymph nodes. Images with Tc-99m pertechnetate, Tl-201, and Tc-99m sestamibi. Alper E, et al. **Clin Nucl Med** 1996 Oct;21(10):815–6
Comparison of F-18 FDG to I-123 and I-131 scans in thyroid carcinoma. Bakheet SM, et al. **Clin Nucl Med** 1997 Jun;22(6):438–9
Unusual false-positive radioiodine whole-body scans in patients with differentiated thyroid carcinoma. Salvatori M, et al. **Clin Nucl Med** 1997 Jun;22(6):380–4
Partial stunning in thyroid remnant after administration of scanning dose followed by 100 mCi I-131 therapy. Yagcloglu H, et al. **Clin Nucl Med** 1996 Apr;21(4):340
Somatostatin receptor scintigraphy in non-medullary thyroid cancer. Postema PT, et al. **Digestion** 1996;57 Suppl 1:36–7
Total-body scintigraphy with thallium-201 and iodine-131 in the follow-up of differentiated thyroid cancer. Carril JM, et al. **J Nucl Med** 1997 May;38(5):686–92
Early changes in fluorine-18-FDG uptake during radiotherapy. Hautzel H, et al. **J Nucl Med** 1997 Sep; 38(9):1384–6
Predicting the efficacy of first iodine-131 treatment in differentiated thyroid carcinoma. Muratet JP, et al. **J Nucl Med** 1997 Sep;38(9):1362–8
Conversion of non-iodine-concentrating differentiated thyroid carcinoma metastases into iodine-concentrating foci after anticancer chemotherapy. Morris JC, et al. **Thyroid** 1997 Feb;7(1):63–6

RADIOTHERAPY

131-I treatment of micronodular pulmonary metastases from papillary thyroid carcinoma. Sisson JC, et al. **Cancer** 1996 Nov 15;78(10):2184–92
Thymus accumulation of I-131 after therapeutic dose for thyroid carcinoma. Muratet JP, et al. **Clin Nucl Med** 1996 Sep;21(9):736–7
Partial stunning in thyroid remnant after administration of scanning dose followed by 100 mCi I-131 therapy. Yagcloglu H, et al. **Clin Nucl Med** 1996 Apr;21(4):340
Tl-201 accumulation in telangiectases secondary to radiation therapy. Yürekli Y, et al. **Clin Nucl Med** 1996 Nov; 21(11):903–4
Prognostic factors in endometrial carcinoma: risk groups and adjuvant radiotherapy. García-Doménech RV, et al. **Eur J Gynaecol Oncol** 1997;18(3):164–70
Characterization and radiosensitivity at high or low dose rate of four cell lines derived from human thyroid tumors. Challeton C, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):163–9
Prognostic value of thyroglobulin after thyroidectomy before ablative radioiodine therapy in thyroid cancer. Grünwald F, et al. **J Nucl Med** 1996 Dec;37(12):1962–4
Early changes in fluorine-18-FDG uptake during radiotherapy. Hautzel H, et al. **J Nucl Med** 1997 Sep; 38(9):1384–6
Radioiodine treatment of thyroid carcinoma in patients on maintenance hemodialysis. Daumerie C, et al. **Thyroid** 1996 Aug;6(4):301–4
Thyroid remnant 131I ablation for papillary and follicular thyroid carcinoma. Mazzaferri EL. **Thyroid** 1997 Apr; 7(2):265–71
The combined effects of high-energy shock waves and ionising radiation on a human bladder cancer cell line. Fickweiler S, et al. **Ultrasound Med Biol** 1996; 22(8):1097–102

SECONDARY

Metastatic pancreatic carcinoma from the thyroid [letter; comment] Shimizu M, et al. **Am J Gastroenterol** 1997 May; 92(5):914–5. Comment on: Am J Gastroenterol 1996 Nov;91(11):2414–7.
Patterns of nodal and distant metastasis based on histologic varieties in differentiated carcinoma of the thyroid. Shaha AR, et al. **Am J Surg** 1996 Dec;172(6):692–4
Radiological case of the month. Metastatic papillary carcinoma of the thyroid seen as a miliary pattern on chest radiograph. Wallis CE. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):423–4
131-I treatment of micronodular pulmonary metastases from papillary thyroid carcinoma. Sisson JC, et al. **Cancer** 1996 Nov 15;78(10):2184–92
Brain metastases in patients with differentiated thyroid carcinoma. Hjiyiannakis P, et al. **Clin Oncol (R Coll Radiol)** 1996;8(5):327–30
Papillary carcinoma of the thyroid metastatic to the parapharyngeal space. Sirotnak JJ, et al. **Ear Nose Throat J** 1997 May;76(5):342–4 (9 ref.)
False-positive iodine-131 whole-body scans due to cholecystitis and sebaceous cyst. Brucker-Davis F, et al. **J Nucl Med** 1996 Oct;37(10):1690–3
Frontal sinus mucocele mimicking a metastasis of papillary thyroid carcinoma. Matheja P, et al. **J Nucl Med** 1997 Jul; 38(7):1022–4
Multiple haemorrhagic brain metastases from papillary

thyroid cancer. Isoda H, et al. **Neuroradiology** 1997 Mar; 39(3):198–202
Calcified brain metastases from ovarian carcinoma. Ricke J, et al. **Neuroradiology** 1996 Jul;38(5):460–1
Factors that predict metastasis of papillary and follicular thyroid cancers in Taiwan. Lin JD, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):475–82
[Cervico-mediastinal recurrences of differentiated thyroid cancers: value of MRI] Cyna-Gorse F, et al. **J Radiol** 1996 Dec;77(12):1195–200 (Eng. Abstr.) **(Fre)**

SURGERY

Well-differentiated thyroid carcinoma. Segal K, et al. **Am J Otolaryngol** 1996 Nov–Dec;17(6):401–6
Surgical complications after total thyroidectomy and resections for differentiated thyroid carcinoma. Sand J, et al. **Ann Chir Gynaecol** 1996;85(4):305–8
Preservation of recurrent laryngeal nerve invaded by differentiated thyroid cancer. Nishida T, et al. **Ann Surg** 1997 Jul;226(1):85–91
Low-risk differentiated thyroid cancer: the need for selective treatment. Shaha AR, et al. **Ann Surg Oncol** 1997 Jun; 4(4):328–33
Surgical treatment for thyroid cancer. Moore S, et al. **AORN J** 1997 Apr;65(4):710–2, 714–6, 719–22 passim
The surgical management of laryngotracheal invasion by well-differentiated papillary thyroid carcinoma. Czaja JM, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):484–90
Surgical strategies in papillary thyroid carcinoma. Gimm O, et al. **Curr Top Pathol** 1997;91:51–64
Anaesthesia and surgical aspects of thyroid swelling: the Ibadan experience. Soyannwo OA, et al. **East Afr Med J** 1995 Oct;72(10):675–7
Diagnosis and treatment of papillary cystic tumor of the pancreas in children. Wünsch LP, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):45–7
Completion thyroidectomy in 131 patients with differentiated thyroid carcinoma. Scheumann GF, et al. **Eur J Surg** 1996 Sep;162(9):677–84
Surgical treatment of papillary and follicular thyroid carcinoma. Lin JD, et al. **Int Surg** 1996 Jan–Mar;81(1):61–6
Thyroid hemiagenesis. Shaha AR, et al. **J Surg Oncol** 1997 Jun;65(2):137–40
Hypothyroidism [letter; comment] Weiss K, et al. **Lancet** 1997 Apr 5;349(9057):1024. Comment on: Lancet 1997 Feb 8;349(9049):413–7.
Postsurgical management of differentiated thyroid carcinoma. Mazzaferri EL, et al. **Otolaryngol Clin North Am** 1996 Aug;29(4):637–62 (115 ref.)
Selective treatment of differentiated thyroid carcinoma. Gemsenjäger E, et al. **World J Surg** 1997 Jun;21(5):546–51; discussion 551–2
Incidence of regional recurrence guiding radicality in differentiated thyroid carcinoma. Simon D, et al. **World J Surg** 1996 Sep;20(7):860–6; discussion 866
Improved survival of patients with papillary thyroid cancer after surgical microdissection. Tisell LE, et al. **World J Surg** 1996 Sep;20(7):854–9
[The results after an organ-preserving operation and total thyroidectomy in differentiated thyroid carcinoma] Mziuad A, et al. **Khirurgiia (Sofiia)** 1996;49(6):33–7 (Eng. Abstr.) **(Bul)**
[Total pancreatectomy after resection of the portal vein for solid and papillary tumor of the pancreas (clinical case)] Avisse C, et al. **Chirurgie** 1996;121(4):266–8 **(Fre)**
[Pancreatectomy for intraductal papillary mucinous tumor of the pancreas] Partensky C, et al. **Gastroenterol Clin Biol** 1996;20(11):938–45 (Eng. Abstr.) **(Fre)**
[Solid pseudopapillary tumors of the pancreas] Siech M, et al. **Chirurg** 1996 Oct;67(10):1012–5 (Eng. Abstr.) **(Ger)**
[Surgical therapy of differentiated thyroid gland carcinoma] Walgenbach S, et al. **Zentralbl Chir** 1997;122(4):252–8 (43 ref.) (Eng. Abstr.) **(Ger)**
[Papillary microcarcinoma of the thyroid] Santini L, et al. **G Chir** 1996 Oct;17(10):488–92 (Eng. Abstr.) **(Ita)**
[A case of thyroid cancer invading into mediastinum that was in need of resection of both innominate veins for complete cure] Tarao M, et al. **Kyobu Geka** 1997 Jul; 50(7):531–4 (Eng. Abstr.) **(Jpn)**
[Thyroid microcarcinoma] Sugino K, et al. **Nippon Rinsho** 1996 May;54(5):1354–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

Papillary thyroid microcarcinoma: clinical study and prognosis. Rodriguez JM, et al. **Eur J Surg** 1997 Apr; 163(4):255–9
Treatment of scan-negative, thyroglobulin-positive metastatic thyroid cancer using radioiodine 131I and recombinant human thyroid stimulating hormone [see comments] Rudavsky AZ, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):11–4. Comment in: J Clin Endocrinol Metab 1997 Jan;82(1):9–10.
Papillary thyroid carcinoma: demographics, treatment, and outcome in eleven pediatric patients treated at a single institution. Kuefer MU, et al. **Med Pediatr Oncol** 1997 Jun; 28(6):433–40

ULTRASONOGRAPHY

[Diagnosis and therapy of thyroid carcinoma] Hölting T, et al. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1077–80 **(Ger)**
[Vascularization of single thyroid nodule as an indicator malignant neoplasm: a study using echo-color-Doppler] Urso M, et al. **Ann Ital Med Int** 1996 Jul–Sep;11(3):175–9 (Eng. Abstr.) **(Ita)**

ULTRASTRUCTURE

Solid papillary carcinoma of breast: an ultrastructural study. Dickersin GR, et al. **Ultrastruct Pathol** 1997 Mar–Apr; 21(2):153–61

URINE

[A tryptophan metabolic disorder in patients with kidney tumors] Zhurkina OV. **Urol Nefrol (Mosk)** 1996 Jul–Aug; (4):14–7 (Eng. Abstr.) **(Rus)**

VETERINARY

Production of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor by carcinomas in a dog and a cat with paraneoplastic leukocytosis [see comments] Sharkey LC, et al. **J Vet Intern Med** 1996 Nov–Dec;10(6):405–8. Comment in: J Vet Intern Med 1997 Mar–Apr;11(2):95.

CARCINOMA, PAPILLARY, FOLLICULAR

Papillary thyroid cancer in Saudi Arabia. Clinical, pathologic, and management characteristics. al-Nuaim AR, et al. **Clin Nucl Med** 1996 Apr;21(4):307–11

COMPLICATIONS

Acromegaly and thyroid carcinoma [letter] Ozgen AG, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):244–5
Carcinoma of the thyroid manifested as hyperthyroidism caused by functional bone metastasis. Ikejiri K, et al. **Clin Nucl Med** 1997 Apr;22(4):227–30
[Acute hyperparathyroidism associated with follicular carcinoma in the thyroid: possible role of juvenile cervical irradiation. Description of a case] Menis ED, et al. **Minerva Endocrinol** 1997 Mar;22(1):19–22 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Outcome of differentiated thyroid cancer diagnosed in pregnant women. Moosa M, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2862–6

EPIDEMIOLOGY

Diet and the risk of papillary and follicular thyroid carcinoma: a population-based case-control study in Sweden and Norway. Galanti MR, et al. **Cancer Causes Control** 1997 Mar;8(2):205–14

GENETICS

[Immunoreactivity of nuclear protein p53 in differentiated thyroid cancers] Dedov II, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):645–7 **(Rus)**

METABOLISM

Somatostatin receptor scintigraphy in non-medullary thyroid cancer. Postema PT, et al. **Digestion** 1996;57 Suppl 1:36–7
Thyroid hormone-producing metastases in differentiated thyroid cancer. Gross JL, et al. **J Endocrinol Invest** 1996 Jan;19(1):21–4
HLA class II expression in well differentiated thyroid carcinoma: correlation with clinicopathological features. Knoll MR, et al. **J Exp Clin Cancer Res** 1997 Jun; 16(2):177–82

PATHOLOGY

Macrofollicular variant of papillary thyroid carcinoma with minor insular component. Albores-Saavedra J, et al. **Cancer** 1997 Sep 15;80(6):1110–6
Follicular variant of papillary carcinoma of the thyroid: to what extent is fine-needle aspiration reliable? Martínez-Parra D, et al. **Diagn Cytopathol** 1996 Jul; 15(1):12–6
Intraoperative touch-imprint cytological diagnosis of follicular variant of papillary thyroid carcinoma [letter] Shen PU, et al. **Diagn Cytopathol** 1997 Jul;17(1):80–3
Diffuse follicular variant of papillary carcinoma of the thyroid. Mizukami Y, et al. **Histopathology** 1995 Dec; 27(6):575–7
Papillary carcinoma of the thyroid: can operative management be based solely on fine-needle aspiration? Chen H, et al. **J Am Coll Surg** 1997 Jun;184(6):605–10
HLA class II expression in well differentiated thyroid carcinoma: correlation with clinicopathological features. Knoll MR, et al. **J Exp Clin Cancer Res** 1997 Jun; 16(2):177–82

RADIONUCLIDE IMAGING

Somatostatin receptor scintigraphy in non-medullary thyroid cancer. Postema PT, et al. **Digestion** 1996;57 Suppl 1:36–7

SECONDARY

Carcinoma of the thyroid manifested as hyperthyroidism caused by functional bone metastasis. Ikejiri K, et al. **Clin Nucl Med** 1997 Apr;22(4):227–30
Metastatic follicular thyroid carcinoma to the paranasal sinuses: a case report and review. Altman KW, et al. **J Laryngol Otol** 1997 Jul;111(7):647–51 (22 ref.)
[Cervico-mediastinal recurrences of differentiated thyroid cancers: value of MRI] Cyna-Gorse F, et al. **J Radiol** 1996 Dec;77(12):1195–200 (Eng. Abstr.) **(Fre)**

SURGERY

Papillary carcinoma of the thyroid: can operative management be based solely on fine-needle aspiration? Chen H, et al. **J Am Coll Surg** 1997 Jun;184(6):605–10
[Nodular goiter and thyroid cancer] Valdina EA. **Vestn Khir Im I I Grek** 1997;156(2):23–6 (Eng. Abstr.) **(Rus)**

THERAPY

Outcome of differentiated thyroid cancer diagnosed in pregnant women. Moosa M, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2862–6

CARCINOMA, PLANOCELLULAR see **CARCINOMA, SQUAMOUS CELL**

CARCINOMA, RENAL CELL

Renal cell carcinoma after therapy for neuroblastoma. Donnelly LF, et al. **AJR Am J Roentgenol** 1996 Oct; 167(4):915–7 (8 ref.)
An association between renal cell carcinoma and lymphoid malignancies: a case series of eight patients [letter] Barişta I. **Cancer** 1997 Sep 1;80(5):1004–5; discussion 1006–7
An association between renal cell carcinoma and lymphoid malignancies: a case series of eight patients [letter] Kurtz JE, et al. **Cancer** 1997 Sep 1;80(5):1005; discussion 1006–7
An association between renal cell carcinoma and lymphoid malignancies. A case series of eight patients. Nishikubo CY, et al. **Cancer** 1996 Dec 1;78(11):2421–6
An association between renal cell carcinoma and lymphoid malignancies: a case series of eight patients [letter] Shah IA, et al. **Cancer** 1997 Sep 1;80(5):1005–7
Renal cell carcinoma. Savage PD. **Curr Opin Oncol** 1996 May;8(3):247–51 (53 ref.)
Renal cell carcinoma. Motzer RJ, et al. **Curr Probl Cancer** 1997 Jul–Aug;21(4):185–232 (254 ref.)
Two synchronous primary tumors of the ovary and kidney: a case report. Balat O, et al. **Eur J Gynaecol Oncol** 1996; 17(4):257–9 (9 ref.)
Renal cell carcinoma--diagnosis and treatment: state of the art. Bono AV, et al. **Eur Urol** 1997;31 Suppl 1:47–55 (46 ref.)
Inhibitory effects of interleukin-4 on human renal cell carcinoma cells in vitro: in combination with interferon-alpha, tumor necrosis factor-alpha or interleukin-2. Cheon J, et al. **Int J Urol** 1996 May; 3(3):196–201
Sarcomatoid variant of renal cell carcinoma. Muzaffar M, et al. **JPMA J Pak Med Assoc** 1997 Apr;47(4):125–6
Role of surgery in patients with metastatic renal cell carcinoma. Flanigan RC. **Semin Urol Oncol** 1996 Nov; 14(4):227–9 (18 ref.)
Renal cell carcinoma: basic biology and clinical behavior. Franklin JR, et al. **Semin Urol Oncol** 1996 Nov;14(4):208–15 (64 ref.)
Primary osteosarcoma of the spermatic cord with synchronous bilateral renal cell carcinoma. Beiswanger JC, et al. **Urology** 1997 Jun;49(6):957–9 (14 ref.)
[Synchronous bilateral renal cell carcinoma] Hernández-Silverio González N, et al. **Actas Urol Esp** 1997 Mar;21(3):260–3 (Eng. Abstr.) **(Spa)**
[Chronic myelomonocytic leukemia and renal carcinoma: a rare association (letter)] Fernández-Escribano M, et al. **Sangre (Barc)** 1997 Feb;42(1):88–9 (5 ref.) **(Spa)**

BLOOD

Plasma nitrate plus nitrite changes during continuous intravenous infusion interleukin 2. Citterio G, et al. **Br J Cancer** 1996 Oct;74(8):1297–301
Soluble ectodomain of c-erbB-2 oncoprotein in relation to tumour stage and grade in human renal cell carcinoma. Rasmuson T, et al. **Br J Cancer** 1997;75(11):1674–7
The eosinophil granule proteins in serum, but not the oxidative metabolism of the blood eosinophils, are increased in cancer. Trulson A, et al. **Br J Haematol** 1997 Aug; 98(2):312–4
False-positive prostatic-specific antigen in the serum of a man with renal cell carcinoma. Geisler E, et al. **Br J Urol** 1997 Feb;79(2):299–300
Serum pyridinoline crosslinks as markers of tumour-induced bone resorption. Nemoto R, et al. **Br J Urol** 1997 Aug; 80(2):274–80
Transforming growth factor beta 1 is significantly elevated in plasma of patients suffering from renal cell carcinoma. Junker U, et al. **Cytokine** 1996 Oct;8(10):794–8
Tissue polypeptide-specific antigen in renal cell carcinoma.

Höbarth K, et al. **Eur Urol** 1996;30(1):89–95

IL-6 is a survival prognostic factor in renal cell carcinoma. Thiounn N, et al. **Immunol Lett** 1997 Jul;58(2):121–4

Evaluation of five glycoprotein tumour markers (CEA, CA-50, CA-19-9, CA-125, CA-15-3) for the prognosis of renal-cell carcinoma. Grankvist K, et al. **Int J Cancer** 1997 Apr 22;74(2):233–6

The usefulness of serum levels of CEA, CA 50, and ferritin in the management of renal cell cancer. Kokocińska D, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):279–81

Serum basic fibroblast growth factor and vascular endothelial growth factor in metastatic renal cell carcinoma treated with interferon alfa-2b [letter] Vermeulen PB, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1316–7

Serological evaluation of soluble CD44 in renal cancer. Kan M, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1191–4

[Sedimentation rate and renal cancer] Iversen OH, et al. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2493–6 (8 ref.) (Eng. Abstr.) **(Nor)**

BLOOD SUPPLY

Prognostic significance of microscopic vascularity for clear cell renal cell carcinoma. Delahunt B, et al. **Br J Urol** 1997 Sep;80(3):401–4

Tubulogenesis by microvascular endothelial cells is mediated by vascular endothelial growth factor (VEGF) in renal cell carcinoma. Nakagawa M, et al. **Br J Urol** 1997 May; 79(5):681–7

Endoglin/CD 105 may not be an optimal tumor endothelial treatment target [letter; comment] Griffioen AW, et al. **Breast Cancer Res Treat** 1996;39(2):239–42. Comment on: Breast Cancer Res Treat 1995;36(2):237–51.

The vascular architecture of renal cell carcinoma in fine-needle aspiration biopsies. An aid in its distinction from hepatocellular carcinoma. Weir M, et al. **Cancer** 1997 Feb 25;81(1):45–50

Surgical approach to tumor thrombus of renal cell carcinoma at the level between hepatic vein and diaphragm. Isaka S, et al. **Int J Urol** 1997 Jan;4(1):13–6

Induction of tubulogenesis of microvascular endothelial cells by basic fibroblast growth factor from human SN12C renal cancer cells. Emoto A, et al. **J Urol** 1997 Feb; 157(2):699–703

[Correlation of neovascularization and vascular endothelial growth factor in human renal cell carcinoma] Sato K, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):389–94 (17 ref.) (Eng. Abstr.) **(Jpn)**

[A case of papillary renal cell carcinoma with abnormal vascularity revealed by pharmacoangiography] Tanomogi H, et al. **Hinyokika Kiyo** 1996 Dec;42(12):957–9 (Eng. Abstr.) **(Jpn)**

[Microvessel count and vascular endothelial growth factor in renal cell carcinoma] Sasaki R. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1032–40 (Eng. Abstr.) **(Jpn)**

CHEMICALLY INDUCED

Preexistence of chronic tubular damage in cases of renal cell cancer after long and high exposure to trichloroethylene [letter] Brüning T, et al. **Arch Toxicol** 1996;70(3–4):259–60

Influence of polymorphisms of GSTM1 and GSTT1 for risk of renal cell cancer in workers with long-term high occupational exposure to trichloroethene. Brüning T, et al. **Arch Toxicol** 1997;71(9):596–9

Formation of catechol estrogen glutathione conjugates and gamma-glutamyl transpeptidase-dependent nephrotoxicity of 17beta-estradiol in the golden Syrian hamster. Butterworth M, et al. **Carcinogenesis** 1997 Mar;18(3):561–7

Renal cell carcinoma associated with cyclophosphamide therapy for Wegener's granulomatosis. Odeh M. **Scand J Rheumatol** 1996;25(6):391–3

CHEMISTRY

Neuroendocrine markers; chromogranin, pancreastatin and serotonin in the management of patients with advanced renal cell carcinoma. Edgren M, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3871–4

Evaluation of p53 protein expression in renal cell carcinoma: comparison of two antibodies. Walsh CJ, et al. **Br J Biomed Sci** 1996 Sep;53(3):179–81

Identification of the MN/CA9 protein as a reliable diagnostic biomarker of clear cell carcinoma of the kidney. Liao SY, et al. **Cancer Res** 1997 Jul 15;57(14):2827–31

Renal cell carcinoma and normal kidney protein expression. Sarto C, et al. **Electrophoresis** 1997 Mar-Apr; 18(3–4):599–604

Expression of laminin in renal-cell carcinomas, renal-cell carcinoma cell lines and xenografts in nude mice. Lohi J, et al. **Int J Cancer** 1996 Nov 4;68(3):364–71

Immunodetection of c-met-oncogene's protein product in renal cell neoplasia. Nakopoulou L, et al. **Pathol Res Pract** 1997;193(4):299–304

Immunohistochemistry of complement response on human renal cell carcinoma biopsies. Magyarlaki T, et al. **Tumori** 1996 Sep-Oct;82(5):473–9

[Fat-soluble vitamins E and A in the tumor tissue and in the blood of patients with renal-cell cancer] Nikiforova NV, et al. **Urol Nefrol (Mosk)** 1996 Nov-Dec;(6):23–7 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Papillary (chromophil) renal cell carcinoma: histomorphologic characteristics and evaluation of conventional pathologic prognostic parameters in 62 cases. Amin MB, et al. **Am J Surg Pathol** 1997 Jun;21(6):621–35

TNM staging of renal cell carcinoma: Workgroup No. 3. Union International Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Guinan P, et al. **Cancer** 1997 Sep 1;80(5):992–3

Classification of renal cell carcinoma: Workgroup No. 1. Union Internationale Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Störkel S, et al. **Cancer** 1997 Sep 1;80(5):987–9

COMPLICATIONS

Bilateral renal cell carcinoma in autosomal dominant polycystic kidney disease. A case report and literature review. Soderdahl DW, et al. **Am J Nephrol** 1997; 17(1):96–9 (24 ref.)

Tuberous sclerosis-associated renal cell carcinoma. Clinical, pathological, and genetic features. Bjornsson J, et al. **Am J Pathol** 1996 Oct;149(4):1201–8

An unusual presentation of renal cell carcinoma with deep vein thrombosis of the calf. Png JC, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):616–8

Recurrent upper gastrointestinal bleeding as an unusual presentation of sarcomatoid renal cell carcinoma. Durazi MH, et al. **Br J Urol** 1997 Feb;79(2):298–9

Spontaneous renal hemorrhage associated with renal tumors. Mydlo JH, et al. **Clin Imaging** 1997 Jul-Aug;21(4):287–9

Nephrotic syndrome due to membranous nephropathy associated with renal cell carcinoma. Nishibara G, et al. **Clin Nephrol** 1996 Jun;45(6):424

The role of interleukin-6 in the induction of hypercalcemia in renal cell carcinoma transplanted into nude mice. Weissglas MG, et al. **Endocrinology** 1997 May; 138(5):1879–85

Ulcerative colitis and renal cell carcinoma [letter; comment] Plaisier PW. **Gut** 1996 Jun;38(6):936. Comment on: Gut 1996 Jan;38(1):148–50.

Role of interleukin-6 in the paraneoplastic inflammatory syndrome associated with renal-cell carcinoma. Blay JY, et al. **Int J Cancer** 1997 Jul 29;72(3):424–30

Pemphigus vulgaris and renal cell carcinoma. Kanwar AJ, et al. **Int J Dermatol** 1996 Oct;35(10):723–4

Nephrotic syndrome, renal failure, and renal malignancy: an unusual tumor-associated glomerulonephritis. Ahmed M, et al. **J Am Soc Nephrol** 1997 May;8(5):848–52

Pulmonary thromboendarterectomy for the treatment of pulmonary embolism caused by renal cell carcinoma. Paw P, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):295–7

Hypercalcemia in patients with metastatic renal cell carcinoma: effect of nephrectomy and metabolic evaluation. Walther MM, et al. **J Urol** 1997 Sep;158(3 Pt 1):733–9

Renal-cell carcinoma [letter; comment] Grateau G, et al. **N Engl J Med** 1997 Mar 13;336(11):809–10; discussion 810–1. Comment on: N Engl J Med 1996 Sep 19;335(12):865–75.

A case of nephrotic syndrome developing during postoperative gamma interferon therapy for renal cell carcinoma. Tashiro M, et al. **Nephron** 1996;73(4):685–8

Embolization as treatment for spinal cord compression from renal cell carcinoma: case report. Kuether TA, et al. **Neurosurgery** 1996 Dec;39(6):1260–2; discussion 1262–3

Renal cell carcinoma with sensorimotor neuropathy. Brechkten J, et al. **Tenn Med** 1997 Mar;90(3):99–100

Local recurrence of renal cell carcinoma causing duodenal-inferior vena caval fistula: case report and review of the literature. Benjamin DS, et al. **Urology** 1996 Oct; 48(4):636–8 (16 ref.)

[Adenocarcinoma of the kidney associated with polycystic kidney treated by conservative surgery (apropos of a case)] el Khader K, et al. **Prog Urol** 1997 Jun;7(3):464–7 (20 ref.) (Eng. Abstr.) **(Fre)**

[Isolated tuberculosis of the liver coincident with renal cell carcinoma] Hlawatsch A, et al. **Aktuelle Radiol** 1997 Mar; 7(2):93–5 (Eng. Abstr.) **(Ger)**

[Hyperdynamic hemodynamics following high-dose interleukin 2-interferon alpha therapy in patients with metastatic renal cell carcinoma. Immunotherapy as a clinical sepsis model?] Finck-Seelen, et al. **Anaesthesist** 1996 Dec;45(12):1171–8 (Eng. Abstr.) **(Ger)**

[Bilateral renal cell carcinoma with extension into the vena cava associated with von Hippel-Lindau disease: a case report and review of the literature] Minamide M, et al. **Hinyokika Kiyo** 1996 May;42(5):361–4 (8 ref.) (Eng. Abstr.) **(Jpn)**

[A case of renal cell carcinoma associated with ossification] Nakamura T, et al. **Hinyokika Kiyo** 1997 Apr;43(4):283–5 (Eng. Abstr.) **(Jpn)**

[Renal angiomyolipoma and renal cell carcinoma associated with tuberous sclerosis: a case report] Sugimoto M, et al. **Hinyokika Kiyo** 1997 Jan;43(1):33–5 (14 ref.) (Eng. Abstr.) **(Jpn)**

[A case of renal cell carcinoma presenting as spontaneous renal rupture] Tsuji H, et al. **Hinyokika Kiyo** 1996 Jul; 42(7):517–20 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Renal cell carcinoma associated with renal artery aneurysm] Yazawa K, et al. **Hinyokika Kiyo** 1997 May;43(5):343–5 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Evidence for association between renal cell carcinomas and renal cystic diseases: nationwide survey in Japan] Hatano T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Dec; 87(12):1297–304 (Eng. Abstr.) **(Jpn)**

[A case of renal cell carcinoma with hyperglycemia] Matsumura T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Nov;87(11):1258–60 (Eng. Abstr.) **(Jpn)**

[Embolism of the small branches of the pulmonary artery in x-ray endovascular occlusion of the renal vessels in cancer] Iurin AG. **Arkh Patol** 1996 Nov-Dec;58(6):62–4 (9 ref.) (Eng. Abstr.) **(Rus)**

DIAGNOSIS

MR imaging evaluation of renal cell carcinoma. Narumi Y, et al. **Abdom Imaging** 1997 Mar-Apr;22(2):216–25

Dynamic contrast-enhanced magnetic resonance imaging of the kidney: comparison of T1-weighted and T2*-weighted sequences. Tsushima Y, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S176–8

Immunocytochemical diagnosis of Bellini duct carcinoma [letter] Arai T, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1241–2

Case records of the Medical College of Virginia, Virginia Commonwealth University Clinicopathologic Conference. A 27-year-old man with hematuria. Edmond M, et al. **Am J Med Sci** 1997 Jan;313(1):58–63

Molecular differential diagnosis of renal cell carcinomas by microsatellite analysis [see comments] Bugert P, et al. **Am J Pathol** 1996 Dec;149(6):2081–8. Comment in: Am J Pathol 1996 Dec;149(6):1791–5.

Molecular differential diagnosis of renal carcinoma: from microscopes to microsatellites [comment] Steiner G, et al. **Am J Pathol** 1996 Dec;149(6):1791–5 (30 ref.). Comment on: Am J Pathol 1996 Dec;149(6):2081–8.

Antimitochondrial antibody (113-1) in the differential diagnosis of granular renal cell tumors. Tickoo SK, et al. **Am J Surg Pathol** 1997 Aug;21(8):922–30

Failure of pre-operative imaging to distinguish renal artery aneurysm from renal cell carcinoma. Padmore D, et al. **Br J Urol** 1996 Nov;78(5):794–5

Incidentally detected renal cell carcinoma: pathological features, survival trends and implications for treatment [see comments] Sweeney JP, et al. **Br J Urol** 1996 Sep; 78(3):351–3. Comment in: Br J Urol 1997 Jan;79(1):149.

Union Internationale Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Workshop on Diagnosis and Prognosis of Renal Cell Carcinoma. Rochester, Minnesota, March 21–22, 1997. **Cancer** 1997 Sep 1;80(5):973–1000

Renal cell carcinoma: current prognostic factors. Union Internationale Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Gelb AB. **Cancer** 1997 Sep 1;80(5):981–6 (68 ref.)

Current prognostic factors--renal cell carcinoma: Workgroup No. 4. Union Internationale Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Srigley JR, et al. **Cancer** 1997 Sep 1;80(5):994–6

Future prognostic factors for renal cell carcinoma: Workgroup No. 5. Union Internationale Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Swanson DA, et al. **Cancer** 1997 Sep 1;80(5):997–8

Cytopathology of retrograde renal pelvis brush specimens: an analysis of 40 cases with emphasis on collecting duct carcinoma and low-intermediate grade transitional cell carcinoma. Zaman SS, et al. **Diagn Cytopathol** 1996 Nov; 15(4):312–21

Cholestatic jaundice as a paraneoplastic manifestation of renal cell carcinoma. Dourakis SP, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):311–4

Correlation between DNA ploidy, proliferation marker Ki-67 and early tumor progression in renal cell carcinoma. A prospective study. Papadopoulos I, et al. **Eur Urol** 1997; 31(1):49–53

Clinical significance of immunohistochemically detectable p53 protein in renal cell carcinoma. Shiina H, et al. **Eur Urol** 1997;31(1):73–80

Genetics as a diagnostic tool in sarcomatoid renal-cell cancer. Dijkhuizen T, et al. **Int J Cancer** 1997 Jul 17; 72(2):265–9

A case of renal cell carcinoma associated with synchronous contralateral renal pelvic cancer and bladder tumor. Ando M, et al. **Int J Urol** 1996 Jul;3(4):310–2 (8 ref.)

Acute cholecystitis or metastatic renal cell carcinoma? a diagnostic dilemma. Finkelstein LH, et al. **J Am Osteopath Assoc** 1996 May;96(5):314–5 (15 ref.)

Atypical internist's tumour. Chattopadhyay D, et al. **J Assoc Physicians India** 1995 Jun;43(6):440

Multilocular renal cell carcinoma. Vandercruysse D, et al. **J Belge Radiol** 1996 Dec;79(6):280

Renal cell carcinoma: preoperative assessment for enucleative surgery with angiography, CT, and MRI. Takahashi S, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):863–70

Rising erythrocyte sedimentation rate during several years before diagnosis can be a predictive factor in 70% of renal cell carcinoma patients. The benefit of knowing subject-based reference values. Iversen OH, et al. **J Intern Med** 1996 Sep;240(3):133–41

Renal cell cancer: incidence of hemorrhage on MR images in patients with chronic renal insufficiency. John G, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):157–60

The role of gamma-glutamyl transpeptidase in the preoperative metastatic evaluation of renal cell carcinoma. Sandock DS, et al. **J Urol** 1997 Mar;157(3):798–9

Specific genetic changes of diagnostic importance in chromophobe renal cell carcinomas. Bugert P, et al. **Lab Invest** 1997 Feb;76(2):203–8

Detection and staging of renal cancer. Choyke PL. **Magn Reson Imaging Clin N Am** 1997 Feb;5(1):29–47 (50 ref.)

Renal cysts and cystic neoplasms. Miller MA, et al. **Magn Reson Imaging Clin N Am** 1997 Feb;5(1):49–66 (29 ref.)

Renal masses: urologic management. Ornstein DK, et al. **Magn Reson Imaging Clin N Am** 1997 Feb;5(1):1–12 (85 ref.)

The kidney: radiologic–pathologic correlation. Wagner BJ. **Magn Reson Imaging Clin N Am** 1997 Feb;5(1):13–28 (42 ref.)

Alpha–fetoprotein–producing renal cell carcinoma with increased activity of N–acetylglucosaminyl–transferase III. Aoyagi Y, et al. **Nephron** 1996;74(2):409–14

Renal cell carcinoma in adolescents. A case report and review of the literature. Fiori E, et al. **Panminerva Med** 1996 Jun;38(2):121–8 (114 ref.)

Unusual fat–containing tumors of the kidney: a diagnostic dilemma. Hélénon O, et al. **Radiographics** 1997 Jan–Feb; 17(1):129–44

Residents' teaching files. Papillary renal cell carcinoma: diagnostic dilemma of a cystic renal mass. Roberts SC 3rd, et al. **Radiographics** 1997 Jul–Aug;17(4):993–8

Imaging work–up: is it renal carcinoma and is it operable? Barbaric ZL. **Semin Urol Oncol** 1996 Nov;14(4):196–202 (31 ref.)

Paraneoplastic manifestations of renal cell carcinoma. Gold PJ, et al. **Semin Urol Oncol** 1996 Nov;14(4):216–22 (46 ref.)

Occasional diagnosis of synchronous renal cell carcinoma during staging of other primary tumors. Piccinini L, et al. **Tumori** 1996 Sep–Oct;82(5):488–90

The utility of video–assisted thoracic surgery in the diagnosis of pulmonary metastases from renal cell carcinoma. Amos AM, et al. **Urology** 1997 Jan;49(1):123–7

Prospective evaluation of fine needle aspiration of small, solid renal masses: accuracy and morbidity. Campbell SC, et al. **Urology** 1997 Jul;50(1):25–9

Preoperative transesophageal echocardiography for assessment of vena caval tumor thrombi: a comparative study with venacavography and magnetic resonance imaging. Glazer A, et al. **Urology** 1997 Jan;49(1):32–4

[Renal cell adenocarcinomas. Report of 64 cases] Trifa M, et al. **Ann Urol (Paris)** 1997;31(3):117–22 (Eng. Abstr.) **(Fre)**

[Magnetic resonance urography. First clinical results] Dörsam J, et al. **Urologe A** 1997 Mar;36(2):173–6 (Eng. Abstr.) **(Ger)**

[Renal cell carcinoma in a horseshoe kidney: a case report] Nishimura K, et al. **Hinyokika Kiyo** 1997 Apr;43(4):279–81 (Eng. Abstr.) **(Jpn)**

[Renal cell carcinoma in acquired cystic disease of kidney (ACDK) manifested by spontaneous renal rupture: a case report] Shiba M, et al. **Hinyokika Kiyo** 1997 Apr; 43(4):287–9 (Eng. Abstr.) **(Jpn)**

[A case of renal cell carcinoma with an extremely high serum carcinoembryonic antigen level] Tanaka K, et al. **Hinyokika Kiyo** 1996 May;42(5):365–7 (Eng. Abstr.) **(Jpn)**

[Bilateral multilocular cystic renal cell carcinoma: a case report] Yamamoto H, et al. **Hinyokika Kiyo** 1996 Jul; 42(7):513–6 (Eng. Abstr.) **(Jpn)**

[A case of erythropoietin–producing renal cell carcinoma proved by immunohistochemistry] Yoshida T, et al. **Hinyokika Kiyo** 1997 May;43(5):339–42 (Eng. Abstr.) **(Jpn)**

[Monoclonal antibody against an urinary protein secreted from the renal tubules—immunohistochemical analysis of renal cell carcinoma] Hamada H, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep;87(9):1120–6 (Eng. Abstr.) **(Jpn)**

[Renal cell carcinoma] Watanabe H, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):484–7 (20 ref.) **(Jpn)**

[An analysis of the prognostic factors in renal–cell carcinoma] Caballero Alcántara J, et al. **Actas Urol Esp** 1997 Apr; 21(4):361–71 (Eng. Abstr.) **(Spa)**

[Renal–cell carcinoma and polycystic disease in an adult] Caballero Alcántara J, et al. **Actas Urol Esp** 1997 Apr; 21(4):410–4 (17 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

A phase II trial of edatrexate in patients with advanced renal cell carcinoma. An Eastern Cooperative Oncology Group study. Dreicer R, et al. **Am J Clin Oncol** 1997 Jun; 20(3):251–3

Interferon alfa–2a tretinoin in patients with metastatic renal cell carcinoma: a pilot study. Paule B, et al. **Am J Health Syst Pharm** 1997 Jan 15;54(2):190–2

Treatment of metastatic renal cell carcinoma with constant–rate floxuridine infusion plus recombinant alpha 2b–interferon. Falcone A, et al. **Ann Oncol** 1996 Aug; 7(6):601–5

Peripheral nerve entrapment: an unusual adverse event with high–dose interleukin–2 therapy [letter] Sikora SS, et al. **Ann Oncol** 1996 Jul;7(5):535–6

Subcutaneous recombinant interleukin–2 (rIL–2) in out–patients with metastatic renal cell carcinoma. Results of a multicenter SCAPP1 trial. Tourani JM, et al. **Ann Oncol** 1996 Jul;7(5):525–8

Chemotherapy with FUDR in the management of metastatic renal cell carcinoma. Aveta P, et al. **Ann Urol (Paris)** 1997; 31(3):159–63

Correlation between clinical response to interleukin 2 and HLA phenotypes in patients with metastatic renal cell carcinoma. Bain C, et al. **Br J Cancer** 1997;75(2):283–6

A phase I clinical trial of imiquimod, an oral interferon inducer, administered daily. Savage P, et al. **Br J Cancer** 1996 Nov;74(9):1482–6

Cyclosporin A as a multidrug–resistant modulator in patients with renal cell carcinoma treated with teniposide. Toffoli G, et al. **Br J Cancer** 1997;75(5):715–21

High–dose toremifene in advanced renal–cell carcinoma. Gershanovich MM, et al. **Cancer Chemother Pharmacol** 1997;39(6):547–51

Outpatient subcutaneous interleukin–2 and interferon–alpha for metastatic renal cell cancer: five–year follow–up of the Cytokine Working Group Study [see comments] Dutcher JP, et al. **Cancer J Sci Am** 1997 May–Jun;3(3):157–62. Comment in: Cancer J Sci Am 1997 May–Jun;3(3):142–3.

Of snails and holy grails... [comment] Yang JC. **Cancer J Sci Am** 1997 May–Jun;3(3):142–3. Comment on: Cancer J Sci Am 1997 May–Jun;3(3):157–62.

EORTC phase II study of daily oral linomide in metastatic renal cell carcinoma patients with good prognostic factors. de Wit R, et al. **Eur J Cancer** 1997 Mar;33(3):493–5

An EORTC phase II study of the efficacy and safety of linomide in the treatment of advanced renal cell carcinoma. Pawinski A, et al. **Eur J Cancer** 1997 Mar;33(3):496–9

Serum levels of interleukins 2, 6 and 8, soluble interleukin–2 receptor and intercellular adhesion molecule–1 during treatment with interleukin–2 plus interferon–alfa. Vuoristo MS, et al. **Immunopharmacol Immunotoxicol** 1996 Aug; 18(3):337–54

Retinoid–interferon therapy of solid tumors. Lippman SM, et al. **Int J Cancer** 1997 Feb 7;70(4):481–3 (27 ref.)

Inhalation of interleukin–2 combined with subcutaneous administration of interferon for the treatment of pulmonary metastases from renal cell carcinoma. Nakamoto T, et al. **Int J Urol** 1997 Jul;4(4):343–8

A phase II trial of amonafide, caracemide, and homoharringtonine in the treatment of patients with advanced renal cell cancer. Witte RS, et al. **Invest New Drugs** 1996;14(4):409–13

Randomized placebo–controlled clinical trial of high–dose interleukin–2 in combination with a soluble p75 tumor necrosis factor receptor immunoglobulin G chimera in patients with advanced melanoma and renal cell carcinoma. Du Bois JS, et al. **J Clin Oncol** 1997 Mar;15(3):1052–62

Phase II trial of recombinant interleukin–1beta in patients with metastatic renal cell carcinoma. Redman BG, et al. **J Immunother** 1994 Oct;16(3):211–5

Immunomodulatory and hematopoietic effects of recombinant human interleukin–6 in patients with advanced renal cell cancer. Schuler M, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):903–10

Individualized use of methadone and opioid rotation in the comprehensive management of cancer pain associated with poor prognostic indicators. Vigano A, et al. **Pain** 1996 Sep; 67(1):115–9

Growth hormone–releasing hormone antagonist MZ–4–71 inhibits in vivo proliferation of Caki–I renal adenocarcinoma. Jungwirth A, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5810–3

Isolated perfusion of the kidney with tumor necrosis factor for localized renal–cell carcinoma. Walther MM, et al. **World J Urol** 1996;14 Suppl 1:S2–7 (49 ref.)

[Subcutaneous administration of interleukin–2 in ambulatory treatment of patients with metastatic renal cancer. Three–year results of the SCAPP I program] Tourani JM, et al. **Bull Cancer** 1997 Apr;84(4):351–6 (Eng. Abstr.) **(Fre)**

[Treatment of advanced kidney cancer using recombinant erythropoietin] Morere JF, et al. **Prog Urol** 1997 Jun; 7(3):399–402 (Eng. Abstr.) **(Fre)**

[A case study of metastatic renal cell carcinoma in lungs showing complete response to continuous subcutaneous injection of interferon alpha and gamma] Kawata N, et al. **Hinyokika Kiyo** 1996 Jul;42(7):509–12 (Eng. Abstr.) **(Jpn)**

[Effect of pamidronate and interferon–alpha on bone and lung metastases and hypercalcemia in a patient with renal cell carcinoma] Kise H, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):879–81 (Eng. Abstr.) **(Jpn)**

[Successful treatment of metastatic renal cell carcinoma with cimetidine—report of two cases] Nagano T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Oct;87(10):1201–4 (Eng. Abstr.) **(Jpn)**

[Hormone therapy of advanced renal cancer with high–dose toremifene (Fareston)] Gershanovich ML, et al. **Vopr Onkol** 1996;42(5):105–9 (Eng. Abstr.) **(Rus)**

[High–dose medroxyprogesterone acetate in the treatment of metastatic carcinoma of renal parenchyma] Popov I, et al. **Srp Arh Celok Lek** 1996 Mar–Apr;124(3–4):73–6 (Eng. Abstr.) **(Scc)**

ENZYMOLOGY

Decreased cyclic inositol phosphohydrolase activity in hamster renal tumors and human renal cell carcinomas. Sekar MC, et al. **Biochem Mol Med** 1995 Dec;56(2):104–7

Activity of the enzymes participating in purine metabolism of cancerous and noncancerous human kidney tissues. Durak I, et al. **Cancer Invest** 1997;15(3):212–6

Activities of superoxide dismutase and glutathione peroxidase enzymes in cancerous and non–cancerous human kidney tissues. Durak I, et al. **Int Urol Nephrol** 1997;29(1):5–11

Serum neuron specific enolase: can it be a tumour marker for renal cell carcinoma? Yaman O, et al. **Int Urol Nephrol** 1996;28(2):207–10

Concentrations of lysosomal cysteine proteases are decreased in renal cell carcinoma compared with normal kidney. Kirschke H, et al. **J Cancer Res Clin Oncol** 1997; 123(7):402–6

Changes in N–acetylglucosaminyltransferase III, IV and V in renal cell carcinoma. Zhu TY, et al. **J Cancer Res Clin Oncol** 1997;123(5):296–9

Correlation between thymidine phosphorylase expression and prognosis in human renal cell carcinoma. Imazano Y, et al. **J Clin Oncol** 1997 Jul;15(7):2570–8

Overexpression of the heme oxygenase gene in renal cell carcinoma. Goodman AI, et al. **Proc Soc Exp Biol Med** 1997 Jan;214(1):54–61

Expression of MT–3 mRNA in human kidney, proximal tubule cell cultures, and renal cell carcinoma. Hoey JG, et al. **Toxicol Lett** 1997 Jul 21;92(2):149–60

Hybridomas reveal shared immunodominant epitopes of gamma–glutamyltransferase isoforms from human kidney and renal cell carcinoma. Fischer P, et al. **Tumour Biol** 1996;17(6):369–77

Elevated concentrations of gamma–enolase in renal cell tumors in rats: similarity to renal cell carcinoma in man. Takashi M, et al. **Urol Res** 1996;24(6):375–9

EPIDEMIOLOGY

The effect of nonresponse on estimation of relative risk in a case–control study. Kreiger N, et al. **Ann Epidemiol** 1997 Apr;7(3):194–9

Nutrition and renal cell cancer. Wolk A, et al. **Cancer Causes Control** 1996 Jan;7(1):5–18 (96 ref.)

Diet and risk of renal cell cancer: a population–based case–control study. Lindblad P, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr;6(4):215–23

Recurrent renal cell carcinoma after 45 years. Tapper H, et al. **Clin Imaging** 1997 Jul–Aug;21(4):273–5

Risk of renal cell carcinoma after kidney transplantation. Kliem V, et al. **Clin Transplant** 1997 Aug;11(4):255–8

Renal cell carcinoma. Long GD. **Curr Opin Oncol** 1997 May; 9(3):301–6 (45 ref.)

Nutrition and other risk factors for renal cell carcinoma in postmenopausal women. Prineas RJ, et al. **Epidemiology** 1997 Jan;8(1):31–6

Renal cell carcinoma of native kidneys: prospective study of 129 renal transplant patients. Doublet JD, et al. **J Urol** 1997 Jul;158(1):42–4

ETIOLOGY

Hypertension, diuretics, and antihypertensive medications as possible risk factors for renal cell cancer. Heath CW Jr, et al. **Am J Epidemiol** 1997 Apr 1;145(7):607–13

Bilateral chromophobe cell renal carcinoma in tuberous sclerosis complex. Hidai H, et al. **Int J Urol** 1997 Jan; 4(1):86–9

Renal cell carcinoma in a giant renal cyst. A case report and review of the literature. Ulker V, et al. **Int Urol Nephrol** 1996;28(2):141–4 (11 ref.)

Epidemiology of renal–cell carcinoma. Tavani A, et al. **J Nephrol** 1997 Mar–Apr;10(2):93–106

Cerebral metastases of an allogenic renal cell carcinoma in a heart recipient without renal cell carcinoma [letter] Meyding–Lamadé U, et al. **J Neurol** 1996 May;243(5):425–7

Diet, obesity and risk for renal cell carcinoma: results from a case control–study in Germany. Boeing H, et al. **Z Ernahrungswiss** 1997 Mar;36(1):3–11

[A case of renal cell carcinoma of the native kidney following cadaveric renal transplantation] Nagano T, et al. **Hinyokika Kiyo** 1996 Nov;42(11):883–5 (Eng. Abstr.) **(Jpn)**

GENETICS

Tuberous sclerosis–associated renal cell carcinoma. Clinical, pathological, and genetic features. Bjornsson J, et al. **Am J Pathol** 1996 Oct;149(4):1201–8

Molecular differential diagnosis of renal carcinoma: from microscopes to microsatellites [comment] Steiner G, et al. **Am J Pathol** 1996 Dec;149(6):1791–5 (30 ref.). Comment on: Am J Pathol 1996 Dec;149(6):2081–8.

Flow–cytometric analysis of the DNA content in paraffin–embedded tissue and in fresh tumour samples obtained from renal cell carcinoma: comparison of DNA ploidy using ethidium bromide and mithramycin. Fischer C, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2575–80

Renal cell carcinomas in trichloroethene (TRI) exposed persons are associated with somatic mutations in the von Hippel–Lindau (VHL) tumour suppressor gene. Brüning T, et al. **Arch Toxicol** 1997;71(5):332–5

Chromophilic renal cell carcinoma: cytomorphological and cytogenetic characterisation of four permanent cell lines. Gerharz CD, et al. **Br J Cancer** 1996 Nov;74(10):1605–14

Inherited renal cell carcinoma. Maher ER. **Br J Urol** 1996 Oct;78(4):542–5 (45 ref.)

Future prognostic factors for renal cell carcinoma: Workgroup No. 5. Union Internationale Contre le Cancer

(UICC) and the American Joint Committee on Cancer (AJCC). Swanson DA, et al. **Cancer** 1997 Sep 1;80(5):997-8

Establishment and characterization of a renal cell carcinoma line from a patient with von Hippel-Lindau syndrome. Morash BA, et al. **Cancer Genet Cytogenet** 1997 Jul 1; 96(1):50-7

Investigation of c-myc and K-ras amplification in renal clear cell adenocarcinoma. Kozma L, et al. **Cancer Lett** 1997 Jan 1;111(1-2):127-31

Genetics of renal tumours. Fleming S. **Cancer Metastasis Rev** 1997 Jun;16(1-2):127-40 (144 ref.)

Comparison of DNA gains and losses in primary renal clear cell carcinomas and metastatic sites: importance of 1q and 3p copy number changes in metastatic events. Gronwald J, et al. **Cancer Res** 1997 Feb 1;57(3):481-7

Loss of imprinting of the insulin-like growth factor II gene in renal cell carcinoma. Nonomura N, et al. **Cancer Res** 1997 Jul 1;57(13):2575-7

HLA-DRB1*0101 and *0405 as protective alleles in Japanese patients with renal cell carcinoma. Ozdemir E, et al. **Cancer Res** 1997 Feb 15;57(4):742-6

Positions of chromosome 3p14.2 fragile sites (FRA3B) within the FHIT gene. Zimonjic DB, et al. **Cancer Res** 1997 Mar 15;57(6):1166-70

Changes in telomere lengths in renal cell carcinomas. Dahse R, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun; 42(4):477-85

Chromosome imbalances in papillary renal cell carcinoma and first cytogenetic data of familial cases analyzed by comparative genomic hybridization. Bentz M, et al. **Cytogenet Cell Genet** 1996;75(1):17-21

Mapping of 29 YAC clones and identification of 3 YACs spanning the translocation t(3;8)(p14.2;q24.1) breakpoint at 8q24.1 in hereditary renal cell carcinoma. Shi G, et al. **Cytogenet Cell Genet** 1996;75(2-3):180-5

Molecular cloning of the papillary renal cell carcinoma-associated translocation (X;1)(p11;q21) breakpoint. Weterman MA, et al. **Cytogenet Cell Genet** 1996;75(1):2-6

Papillary renal cell carcinoma: quantitation of chromosomes 7 and 17 by FISH, analysis of chromosome 3p for LOH, and DNA ploidy. Corless CL, et al. **Diagn Mol Pathol** 1996 Mar;5(1):53-64

The 72nd codon change of p53 in primary renal cell carcinoma was confirmed as a polymorphism among Japanese. Kageyama Y, et al. **Eur Urol** 1997;31(1):81-5

Value of p53 expression, cellular proliferation, and DNA content as prognostic indicators in renal cell carcinoma. Papadopoulos I, et al. **Eur Urol** 1997;32(1):110-7

Correlations of allelic imbalance of chromosome 14 with adverse prognostic parameters in 148 renal cell carcinomas. Béroud C, et al. **Genes Chromosomes Cancer** 1996 Dec; 17(4):215-24

FHIT gene and the FRA3B region are not involved in the genetics of renal cell carcinomas. Bugert P, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):9-15

Significance of chromosome arm 14q loss in nonpapillary renal cell carcinomas. Herbers J, et al. **Genes Chromosomes Cancer** 1997 May;19(1):29-35

Novel mitochondrial DNA deletion found in a renal cell carcinoma. Horton TM, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):95-101

Involvement of multiple loci on chromosome 3 in renal cell cancer development. van den Berg A, et al. **Genes Chromosomes Cancer** 1997 Jun;19(2):59-76 (176 ref.)

Major role for a 3p21 region and lack of involvement of the t(3;8) breakpoint region in the development of renal cell carcinoma suggested by loss of heterozygosity analysis. van den Berg A, et al. **Genes Chromosomes Cancer** 1996 Jan;15(1):64-72

A micro-dissection approach for isolation of NotI linking clones from regions frequently deleted in RCC and SCLC. Alimov AA, et al. **Genet Anal** 1997 Mar;14(1):21-3

Yeast artificial chromosome transfer into human renal carcinoma cells by spheroplast fusion. Jülicher K, et al. **Genomics** 1997 Jul 1;43(1):95-8

Structure of the human receptor tyrosine phosphatase gamma gene (PTPRG) and relation to the familial RCC t(3;8) chromosome translocation. Kastury K, et al. **Genomics** 1996 Mar 1;32(2):225-35

The t(X;1)(p11.2;q21.2) translocation in papillary renal cell carcinoma fuses a novel gene PRCC to the TFE3 transcription factor gene. Sidhar SK, et al. **Hum Mol Genet** 1996 Sep;5(9):1333-8

Cytogenetic findings in renal cell carcinoma. Iqbal MA, et al. **Hum Pathol** 1996 Sep;27(9):949-54

Apoptosis in renal cell carcinoma: detection by in situ end-labeling of fragmented DNA and correlation with other prognostic factors. Todd D, et al. **Hum Pathol** 1996 Oct;27(10):1012-7

B7.1 gene transduction of human renal-cell-carcinoma cell lines restores the proliferative response and cytotoxic function of allogeneic T cells. Bain C, et al. **Int J Cancer** 1996 Sep 17;67(6):769-76

Refining a proximal breakpoint cluster at chromosome 3p11.2 in non-papillary renal cell carcinomas. Bugert P, et al. **Int J Cancer** 1996 Dec 11;68(6):723-6

Chromosomal findings and p53-mutation analysis in chromophilic renal-cell carcinomas. Dijkhuizen T, et al. **Int J Cancer** 1996 Sep 27;68(1):47-50

Involvement of Ras in the expression of glycolipid sulfotransferase in human renal cancer cells. Yabunaka N, et al. **Int J Cancer** 1997 May 16;71(4):620-3

Imaging features of hereditary papillary renal cancers. Choyke PL, et al. **J Comput Assist Tomogr** 1997 Sep-Oct; 21(5):737-41

Mutation of the p53 tumour suppressor gene occurs preferentially in the chromophobe type of renal cell tumour. Contractor H, et al. **J Pathol** 1997 Feb; 181(2):136-9

Renal cell carcinoma in association with tuberous sclerosis in children. Robertson FM, et al. **J Pediatr Surg** 1996 May; 31(5):729-30

Simultaneous chromosome 7 and 17 gain and sex chromosome loss provide evidence that renal metanephric adenoma is related to papillary renal cell carcinoma. Brown JA, et al. **J Urol** 1997 Aug;158(2):370-4

C-met proto-oncogene expression in benign and malignant human renal tissues. Pisters LL, et al. **J Urol** 1997 Sep;158(3 Pt 1):724-8

The significance of Ras guanine nucleotide exchange factor, son of sevenless protein, in renal cell carcinoma cell lines. Shinohara N, et al. **J Urol** 1997 Sep;158(3 Pt 1):908-11

Somatic mutation of the tuberous sclerosis (Tsc2) tumor suppressor gene in chemically induced rat renal carcinoma cell. Urakami S, et al. **J Urol** 1997 Jul;158(1):275-8

Re: Hereditary papillary renal cell carcinoma: clinical studies in 10 families [letter; comment] Zbar B, et al. **J Urol** 1996 Nov;156(5):1781. Comment on: J Urol 1994 Mar;151(3):561-6. Comment on: J Urol 1995 Mar;153(3 Pt 2):907-12.

Overexpression of integrin-associated protein (CD47) in rat kidney treated with a renal carcinogen, ferric nitrilotriacetate. Nishiyama Y, et al. **Jpn J Cancer Res** 1997 Feb;88(2):120-8

Molecular staging of cancer [letter] Baum M, et al. **Lancet** 1997 Sep 27;350(9082):962

Familial non-VHL non-papillary clear-cell renal cancer [letter] Teh BT, et al. **Lancet** 1997 Mar 22;349(9055):848-9

Trisomy 3 in renal cell carcinoma. Renshaw AA, et al. **Mod Pathol** 1997 May;10(5):481-4

Detection of von Hippel-Lindau disease gene mutations in paraffin-embedded sporadic renal cell carcinoma specimens. Zhuang Z, et al. **Mod Pathol** 1996 Aug; 9(8):838-42

Duplication of an approximately 1.5 Mb DNA segment at chromosome 5q22 indicates the locus of a new tumour gene in nonpapillary renal cell carcinomas. Kenck C, et al. **Oncogene** 1997 Mar 6;14(9):1093-8

The FHIT gene is alternatively spliced in normal kidney and renal cell carcinoma. Luan X, et al. **Oncogene** 1997 Jul 3;15(1):79-86

Frequent breakpoints in the region surrounding FRA3B in sporadic renal cell carcinomas. Shridhar V, et al. **Oncogene** 1997 Mar 20;14(11):1269-77

Mutational state of von Hippel-Lindau and adenomatous polyposis coli genes in renal tumors. Suzuki H, et al. **Oncology** 1997 May-Jun;54(3):252-7

Allelic loss on chromosomes 3p, 5q and 17p in renal cell carcinomas. Sugimura J, et al. **Pathol Int** 1997 Feb-Mar; 47(2-3):79-83

Genetic changes in the origin and development of renal cell carcinoma (RCC). Glavač D, et al. **Pflugers Arch** 1996; 431(6 Suppl 2):R193-4

Increased frequency of a null-allele for NAD(P)H: quinone oxidoreductase in patients with urological malignancies. Schulz WA, et al. **Pharmacogenetics** 1997 Jun;7(3):235-9

Fusion of the transcription factor TFE3 gene to a novel gene, PRCC, in t(X;1)(p11;q21)-positive papillary renal cell carcinomas. Weterman MA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15294-8

Proliferating cell nuclear antigen expression in renal cell carcinoma. Prognostic implications. Larsson P, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):445-50

Molecular genetics of renal cell carcinoma. Wagner JR, et al. **Semin Urol Oncol** 1996 Nov;14(4):244-9 (60 ref.)

Cytofluorometric and cytogenetic evaluation of renal cell carcinoma: correlations with the clinical course. Bartoletti R, et al. **Urol Int** 1997;58(1):1-7

Chromophobe cell renal carcinoma: DNA flow cytometry and proliferation status in 9 cases. Gómez-Román JJ, et al. **Urol Int** 1997;58(4):203-7

Cytofluorometric evaluation of nuclear DNA content distribution in renal neoplasms treated by conservative surgery. Selli C, et al. **Urol Int** 1996;57(3):151-7

Detection of loss of heterozygosity in the APC tumor suppressor gene in nonpapillary renal cell carcinoma by microdissection and polymerase chain reaction. Böhm M, et al. **Urol Res** 1997;25(3):161-5

Losses at 3p common deletion sites in subtypes of kidney tumours: histopathological correlations. Hadaczek P, et al. **Virchows Arch** 1996 Sep;429(1):37-42

[Cyto- and molecular genetic studies of renal cell carcinoma with special reference to multifocal carcinoma lesions] Schlichter A, et al. **Urologe A** 1996 Jul;35(4):305-9 (Eng. Abstr.) **(Ger)**

[Prognosis of renal cell carcinoma and detection of numerical chromosome aberration] Uchida K, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:313-9 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Characterisation of gamma delta T cells in renal cell carcinoma patients by polymerase chain reaction analysis of T cell receptor transcripts. Olive C, et al. **Cancer Immunol Immunother** 1997 Mar;44(1):27-34

Th2-like response and antitumor effect of anti-interleukin-4 mAb in mice bearing renal cell carcinoma. Takeuchi T, et al. **Cancer Immunol Immunother** 1997 Jan;43(6):375-81

The prognostic significance of immune changes in patients with renal cancer, melanoma and colorectal cancer, treated with interferon alpha 2b. Tsavaris N, et al. **Cancer Immunol Immunother** 1996 Oct;43(2):94-102

MHC class II antigen-associated invariant chain on renal cell cancer may contribute to the anti-tumor immune response of the host [corrected and republished article originally printed in Cancer Lett 1996 Dec 3;109(1-2):15-21] Saito T, et al. **Cancer Lett** 1997 May 1; 115(1):121-7

MHC class II antigen-associated invariant chain on renal cell cancer may contribute to the anti-tumor immune response of the host [corrected and republished in Cancer Lett 1997 May 1;115(1):121-7] Saito T, et al. **Cancer Lett** 1996 Dec 3;109(1-2):15-21

T-cell receptor zeta-chain expression on tumor-infiltrating lymphocytes from renal cell carcinoma. Cardi G, et al. **Cancer Res** 1997 Aug 15;57(16):3517-9

Endothelial expression of CD40 in renal cell carcinoma. Kluth B, et al. **Cancer Res** 1997 Mar 1;57(5):891-9

An improved circularly permuted interleukin 4-toxin is highly cytotoxic to human renal cell carcinoma cells. Introduction of gamma c chain in RCC cells does not improve sensitivity. Puri RK, et al. **Cell Immunol** 1996 Jul 10;171(1):80-6

Phenotype, cytokine production and cytolytic capacity of fresh (uncultured) tumour-infiltrating T lymphocytes in human renal cell carcinoma. Van den Hove LE, et al. **Clin Exp Immunol** 1997 Sep;109(3):501-9

Prognostic value of Ki-67 expression in renal cell carcinomas. Aaltomaa S, et al. **Eur Urol** 1997;31(3):350-5

Activated gamma/delta T lymphocytes infiltrating renal cell carcinoma. Kowalczyk D, et al. **Immunol Lett** 1996 Oct; 53(1):15-8

Analysis of T-cell immune response in renal cell carcinoma: polarization to type 1-like differentiation pattern, clonal T-cell expansion and tumor-specific cytotoxicity. Angevin E, et al. **Int J Cancer** 1997 Jul 29;72(3):431-40

Renal-cell carcinoma-specific lysis by cytotoxic T-lymphocyte clones isolated from peripheral blood lymphocytes and tumor-infiltrating lymphocytes. Brouwenstijn N, et al. **Int J Cancer** 1996 Oct 9;68(2):177-82

Identification of an enriched CD4+ CD8alpha++ CD8beta+ T-cell subset among tumor-infiltrating lymphocytes in human renal cell carcinoma. Van den Hove LE, et al. **Int J Cancer** 1997 Apr 10;71(2):178-82

Phenotype frequency of human leukocyte antigens in Japanese patients with renal cell carcinoma who responded to interferon-alpha treatment. Onishi T, et al. **Int J Urol** 1996 Nov;3(6):435-40

The in vitro effects of interleukin-12 upon tumor-infiltrating lymphocytes derived from renal cell carcinoma. Steger GG, et al. **J Cancer Res Clin Oncol** 1997;123(6):317-24

Targeting of renal cell carcinoma with iodine-131-labeled chimeric monoclonal antibody G250. Steffens MG, et al. **J Clin Oncol** 1997 Apr;15(4):1529-37

Tumor-induced suppression of T lymphocyte proliferation coincides with inhibition of Jak3 expression and IL-2 receptor signaling: role of soluble products from human renal cell carcinomas. Kolenko V, et al. **J Immunol** 1997 Sep 15;159(6):3057-67

Use of cryopreserved lymphocytes for assessment of the immunological effects of interferon therapy in renal cell carcinoma patients. Sobota V, et al. **J Immunol Methods** 1997 Apr 11;203(1):1-10

Natural immune reactivity-associated therapeutic response in patients with metastatic renal cell carcinoma receiving tumor-infiltrating lymphocytes and interleukin-2-based therapy. Belldegrun A, et al. **J Immunother Emphasis Tumor Immunol** 1996 Mar; 19(2):149-61

Higher susceptibility of erythropoietin-producing renal cell carcinomas to lysis by lymphokine-activated killer cells. Miyajima J, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):399-404

Anti-renal-cell carcinoma chimeric antibody G250 facilitates antibody-dependent cellular cytotoxicity with in vitro and in vivo interleukin-2-activated effectors. Surfus JE, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):184-91

Induction of autologous tumor-specific cytotoxic T-lymphocyte activity against a human renal carcinoma cell line by B7-1 (CD80) costimulation. Wang YC, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jan;19(1):1-8

Can we define the mechanism of antitumor response observed during clinical adoptive immunotherapy? [letter] Merrouche Y, et al. **J Natl Cancer Inst** 1997 Sep 17; 89(18):1380

Anticardiolipin antibody associated with renal carcinoma [letter; comment] Malnick SD, et al. **J Rheumatol** 1995 Oct; 22(10):2007-8. Comment on: J Rheumatol 1994 Nov;21(11):2162-3.

Target-specific activation of mast cells by immunoglobulin E reactive with a renal cell carcinoma-associated antigen. Luiten RM, et al. **Lab Invest** 1996 Feb;74(2):467-75

Soluble CD44 variants in the serum of patients with

urological malignancies. Lein M, et al. **Oncology** 1997 May-Jun;54(3):226-30

Tumor associated antigens in human renal cell carcinoma: MHC restricted recognition by cytotoxic T lymphocytes. Bernhard H, et al. **Tissue Antigens** 1996 Jul;48(1):22-31

The renal cell carcinoma lysis by a specific cytotoxic T cell clone is independent of the Fas/Fas-L cytotoxic pathway. Caignard A, et al. **Tissue Antigens** 1996 Oct;48(4 Pt 1):295-300

Inhibition of lymphocyte proliferative responses by renal cell carcinoma extract. Malinowski K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):839-41

[The role of serum soluble interleukin 2 receptor (sIL-2R) levels in patients with renal cell carcinoma] Akiyama K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Apr; 88(4):473-8 (Eng. Abstr.) **(Jpn)**

[Characterization of tumor infiltrating lymphocytes from patients with renal cell carcinoma--influence of combination therapy with interferon alpha and gamma] Yanagiya H, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Jun;87(6):928-36 (Eng. Abstr.) **(Jpn)**

METABOLISM

Alpha-V/beta-3 and alpha-V/beta-5 integrin distribution in neoplastic kidney. Rabb H, et al. **Am J Nephrol** 1996; 16(5):402-8

Expression of p53 and bcl-2 in primary locally confined renal cell carcinomas: no evidence for prognostic significance. Hofmockel G, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3807-11

Is the expression of multidrug resistance gene product a prognostic indicator for the clinical outcome of patients with renal cancer? Hofmockel G, et al. **Br J Urol** 1997 Jul;80(1):11-7

Differential transfection efficiency rates of the GM-CSF gene into human renal cell carcinoma lines by lipofection. Hernández A, et al. **Cancer Gene Ther** 1997 Jan-Feb; 4(1):59-65

Expression of the tumor-associated gene MN: a potential biomarker for human renal cell carcinoma. McKiernan JM, et al. **Cancer Res** 1997 Jun 15;57(12):2362-5

Cadherin-6, a cell adhesion molecule specifically expressed in the proximal renal tubule and renal cell carcinoma. Paul R, et al. **Cancer Res** 1997 Jul 1;57(13):2741-8

Cell density-dependent regulation of basic fibroblast growth factor expression in human renal cell carcinoma cells. Singh RK, et al. **Cell Growth Differ** 1996 Mar;7(3):397-404

Expression of heat shock protein 72 in renal cell carcinoma: possible role and prognostic implications in cancer patients. Santarosa M, et al. **Eur J Cancer** 1997 May;33(6):873-7

Epidermal growth factor family and renal cell carcinoma: expression and prognostic impact. Hofmockel G, et al. **Eur Urol** 1997;31(4):478-84

A flow cytometric analysis of the expression of adhesion molecules on human renal cell carcinoma cells with different metastatic potentials. Koga H, et al. **Eur Urol** 1997;31(1):86-91

Expression of proliferating cell nuclear antigen and deoxyribonucleic acid value in renal cell carcinoma: correlation with different histopathological parameters and patient survival. Shameem IA, et al. **Eur Urol** 1996; 29(1):78-84

Expression and function of the peptide transporters in escape variants of human renal cell carcinomas. Seliger B, et al. **Exp Hematol** 1997 Jul;25(7):608-14

Expression of type IV collagen alpha1(IV)-alpha6(IV) polypeptides in normal and developing human kidney and in renal cell carcinomas and oncocytomas. Lohi J, et al. **Int J Cancer** 1997 Jul 3;72(1):43-9

Gene expression of TGF-alpha, EGF and IL-6 in cultured renal tubular cells and renal cell carcinoma. Aoyagi T, et al. **Int J Urol** 1996 Sep;3(5):392-6

Higher susceptibility of erythropoietin-producing renal cell carcinomas to lysis by lymphokine-activated killer cells. Miyajima J, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):399-404

Renal cell carcinomas produce IL-6, IL-10, IL-11, and TGF-beta 1 in primary cultures and modulate T lymphocyte blast transformation. Knoefel B, et al. **J Interferon Cytokine Res** 1997 Feb;17(2):95-102

Vascular endothelial growth factor expression is increased in renal cell carcinoma. Nicol D, et al. **J Urol** 1997 Apr; 157(4):1482-6

Expression of globo-series gangliosides in human renal cell carcinoma. Saito S, et al. **Jpn J Cancer Res** 1997 Jul; 88(7):652-9

Acquisition of TGF-beta 1 resistance: an important progression factor in human renal cell carcinoma. Ramp U, et al. **Lab Invest** 1997 May;76(5):739-49

Mutant p53 expression in kidney tubules adjacent to renal cell carcinoma: evidence of a precursor lesion. Lai R, et al. **Mod Pathol** 1996 Jun;9(6):690-5

Altered expression of transforming growth factor-alpha: an early event in renal cell carcinoma development. Everitt JI, et al. **Mol Carcinog** 1997 Jul;19(3):213-9

Preparation and biodistribution of copper-67-labeled porphyrins and porphyrin-A6H immunoconjugates. Bhalgat MK, et al. **Nucl Med Biol** 1997 Feb;24(2):179-85

Comparison of cytogenetics, cytokine secretion, and oncogene expression in primary cultures of renal carcinoma cells. Lahn M, et al. **Oncology** 1997 Sep-Oct;54(5):429-37

Studies of the expression of epidermal growth factor receptor in human renal cell carcinoma: a comparison of immunohistochemical method versus ligand binding assay. Yoshida K, et al. **Oncology** 1997 May-Jun;54(3):220-5

p53 protein expression but not mdm-2 protein expression is associated with rapid tumor cell proliferation and prognosis in renal cell carcinoma. Moch H, et al. **Urol Res** 1997;25 Suppl 1:S25-30

Elevated concentrations of the small stress protein HSP27 in rat renal tumors. Takashi M, et al. **Urol Res** 1997; 25(3):173-7

Progelatinase A mRNA expression in cell lines derived from tumors in patients with metastatic renal cell carcinoma correlates inversely with survival. Walther MM, et al. **Urology** 1997 Aug;50(2):295-301

[Microvessel count and vascular endothelial growth factor in renal cell carcinoma] Sasaki R. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1032-40 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Fine needle aspiration cytology diagnosis of a fungal lesion of the Verticillium species. A case report. Das DK, et al. **Acta Cytol** 1997 Mar-Apr;41(2):577-82

MORTALITY

Prognostic factors for survival in metastatic renal cell carcinoma: retrospective analysis from 109 consecutive patients. Citterio G, et al. **Eur Urol** 1997;31(3):286-91

Pre-operatively determined prognostic factors in metastatic renal cell carcinoma. Miyao N, et al. **Eur Urol** 1997; 31(3):292-6

Multivariate evaluation of prognostic determinants for renal cell carcinomas which are metastatic at initial diagnosis. Takashi M, et al. **Int Urol Nephrol** 1997;29(3):291-300

A population-based analysis of survival and incidental diagnosing of renal cell carcinoma patients in Iceland, 1971-1990. Gudbjartsson T, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):451-5

[Prognosis of renal cell carcinoma coexisting with renal cystic diseases--results of nation-wide survey in Japan] Hatano T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jun;88(6):624-31 (Eng. Abstr.) **(Jpn)**

[Study of the effects of treatment with interferon for the advanced renal cell carcinoma based upon the survival rate] Onishi T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Apr; 88(4):463-72 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Accuracy of fine needle aspiration in distinguishing subtypes of renal cell carcinoma. Renshaw AA, et al. **Acta Cytol** 1997 Jul-Aug;41(4):987-94

Fine needle aspiration of chromophobe renal cell carcinoma. Renshaw AA, et al. **Acta Cytol** 1996 Sep-Oct;40(5):867-72

Cytomorphology of adrenocortical carcinoma and comparison with renal cell carcinoma. Sharma S, et al. **Acta Cytol** 1997 Mar-Apr;41(2):385-92

Reduction of brain metastasis following immunotherapy with interleukin-2 for stage IV renal cell cancer. Citterio G, et al. **Acta Oncol** 1997;36(2):228

Bellini duct carcinoma: a rare variant of renal cell carcinoma. Mattelaer P, et al. **Acta Urol Belg** 1996 Sep;64(3):33-5

Human papillomaviruses are not associated with renal carcinoma. Grce M, et al. **Anticancer Res** 1997 May-Jun; 17(3C):2193-6

Incidence of apoptosis, cell proliferation and P53 expression in renal cell carcinomas. Tannapfel A, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1155-62

Fas/APO-1-mediated apoptosis of human renal cell carcinoma. Nonomura N, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):945-51

Chromophilic renal cell carcinoma: cytomorphological and cytogenetic characterisation of four permanent cell lines. Gerharz CD, et al. **Br J Cancer** 1996 Nov;74(10):1605-14

Cystic lymph node metastasis caused by a Bellini duct carcinoma. Arai T, et al. **Br J Urol** 1997 Jan;79(1):135-6

Micrometastatic adrenal invasion by renal carcinoma in patients undergoing nephrectomy. Li GR, et al. **Br J Urol** 1996 Dec;78(6):826-8

Bellini duct carcinoma of the kidney. Martínez Barba E, et al. **Br J Urol** 1997 Aug;80(2):342-4

Predictive value of serum immunosuppressive acidic protein for staging renal cell carcinoma: comparison with other tumour markers. Masuda H, et al. **Br J Urol** 1997 Jul; 80(1):25-9

Ectopic duplicate megaureter and renal cell carcinoma. Paulus SC, et al. **Br J Urol** 1997 Jan;79(1):130-1

Prognostic relevance of the intrinsic growth deceleration of the first passage xenografts of human renal cell carcinomas. Bassukas ID, et al. **Cancer** 1996 Nov 15;78(10):2170-2

The current state of renal cell carcinoma grading. Union Internationale Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Goldstein NS. **Cancer** 1997 Sep 1;80(5):977-80

Fine-needle aspiration of chromophobe renal cell carcinoma. Analysis of six cases. Granter SR, et al. **Cancer** 1997 Apr 25;81(2):122-8

Cytogenetic, histopathologic, and immunologic studies of multifocal renal cell carcinoma. Junker K, et al. **Cancer** 1997 Mar 1;79(5):975-81

Grading of renal cell carcinoma: Workgroup No. 2. Union Internationale Contre le Cancer and the American Joint Committee on Cancer (AJCC). Medeiros LJ, et al. **Cancer** 1997 Sep 1;80(5):990-1 (0 ref.)

Aggressive variants of chromophobe renal cell carcinoma. Renshaw AA, et al. **Cancer** 1996 Oct 15;78(8):1756-61 (24 ref.)

Identification of constitutive and gamma-interferon- and interleukin 4-regulated proteins in the human renal carcinoma cell line ACHN. Sullivan CM, et al. **Cancer Res** 1997 Mar 15;57(6):1137-43

Intratumoral heterogeneity of S phase transition in solid tumours determined by bromodeoxyuridine labelling and flow cytometry. Baisch H, et al. **Cell Prolif** 1993 Sep; 26(5):439-48

Renal cell carcinoma with renal pelvic extension simulating transitional cell carcinoma: a case report. Chen WC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Aug; 58(2):147-50

An in vitro invasion model for human renal cell carcinoma cell lines mimicking their metastatic abilities. Nakayama Y, et al. **Clin Exp Metastasis** 1996 Oct;14(5):466-74

Pancreatic metastases from renal cell carcinoma in von Hippel-Lindau disease. Chambers TP, et al. **Clin Imaging** 1997 Jan-Feb;21(1):40-2

Sacral chordoma, gas gangrene and bilateral renal cell carcinomas. Harrington KJ, et al. **Clin Oncol (R Coll Radiol)** 1996;8(2):123-4

Metastatic neoplasms of the breast: fine-needle aspiration cytology of two cases. Ferrara G, et al. **Diagn Cytopathol** 1996 Aug;15(2):139-43

Renal collecting duct carcinoma [letter; comment] García-Bonafé M, et al. **Diagn Cytopathol** 1997 Feb; 16(2):180-1. Comment on: Diagn Cytopathol 1994;11(1):74-8.

Multicystic nephroma: report of a case with fine-needle aspiration findings. Hughes JH, et al. **Diagn Cytopathol** 1996 Feb;14(1):60-3 (9 ref.)

Diagnostic significance and possible pitfalls of nuclear grooves in extrathyroid cytology. Ng WK, et al. **Diagn Cytopathol** 1997 Jan;16(1):57-64

Renal clear cell carcinoma appearing as a left neck mass. Boggess MA, et al. **Ear Nose Throat J** 1996 Sep; 75(9):620-22 (13 ref.)

Resection of hypernephromas with vena caval or right atrial tumor extension using extracorporeal circulation and deep hypothermic circulatory arrest: a multidisciplinary approach. Welz A, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):127-32

Computerized nuclear morphometry of renal cell carcinomas. Paraskevakou E, et al. **Gen Diagn Pathol** 1996 Oct; 142(2):101-4

Management of malignant tumor with intracaval extension by selective clamping of IVC. Togo S, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1165-71

Coexistence of renal cell carcinoma and renal angiomyolipoma developing in a kidney: a case report. Tsuboniwa N, et al. **Hinyokika Kiyo** 1997 Feb;43(2):131-5 (30 ref.)

Giant (bizarre) cell variant of renal carcinoma. Chetty R, et al. **Histopathology** 1997 Jun;30(6):585-7

Pigmented renal cell carcinoma: accumulation of abnormal lysosomal granules. Fukuda T, et al. **Histopathology** 1997 Jul;31(1):38-46

Establishment of two human renal cell carcinoma cell lines with different chemosensitivity. Naito S, et al. **Hum Cell** 1996 Jun;9(2):101-8

Hyaline globules in renal cell carcinomas and oncocytomas. Gatalica Z, et al. **Hum Pathol** 1997 Apr;28(4):400-3

Correlation of very late activation integrin and CD44 expression with extrarenal invasion and metastasis of renal cell carcinomas. Gilcrease MZ, et al. **Hum Pathol** 1996 Dec;27(12):1355-60

Cytogenetic findings in renal cell carcinoma. Iqbal MA, et al. **Hum Pathol** 1996 Sep;27(9):949-54

Apoptosis in renal cell carcinoma: detection by in situ end-labeling of fragmented DNA and correlation with other prognostic factors. Todd D, et al. **Hum Pathol** 1996 Oct;27(10):1012-7

Renal cell carcinoma in a child: case report and brief review of literature. Sharma MC, et al. **Indian J Cancer** 1995 Jun; 32(2):85-8 (18 ref.)

Human renal-cell carcinoma tissue contains dendritic cells. Thurnher M, et al. **Int J Cancer** 1996 Sep 27;68(1):1-7

Tetrapeptide DEVD-aldehyde or YVAD-chloromethylketone inhibits Fas/Apo-1(CD95)-mediated apoptosis in renal-cell-cancer cells. Tomita Y, et al. **Int J Cancer** 1996 Sep 27;68(1):132-5

Bilateral chromophobe cell renal carcinoma in tuberous sclerosis complex. Hidai H, et al. **Int J Urol** 1997 Jan; 4(1):86-9

Analysis of histological heterogeneity in renal cell carcinoma: tumor size-related histological change and its prognostic significance. Kanamaru H, et al. **Int J Urol** 1996 Jul; 3(4):256-60

Solitary colonic metastasis of renal cell carcinoma seven years after nephrectomy: a case report. Tokonabe S, et al. **Int J Urol** 1996 Nov;3(6):501-3

An unusual case of Bellini duct carcinoma. Anjum MI, et al. **Int Urol Nephrol** 1996;28(5):695-8 (6 ref.)

Exposure to vinblastine modulates beta 1 integrin expression and in vitro binding to extracellular matrix molecules in

a human renal carcinoma cell line. Duensing S, et al. **Invasion Metastasis** 1996;16(2):65–72

Late solitary pancreatic metastasis from renal cell carcinoma. Paz A, et al. **Isr J Med Sci** 1996 Dec;32(12):1319–21

Renal cell carcinoma of end-stage renal disease: a histopathologic and molecular genetic study. Hughson MD, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2461–8

Correlation between thymidine phosphorylase expression and prognosis in human renal cell carcinoma. Imazano Y, et al. **J Clin Oncol** 1997 Jul;15(7):2570–8

Myxoid renal cell carcinoma: histological, immunocytochemical and ultrastructural study. Birch HA, et al. **J Clin Pathol** 1996 Dec;49(12):1015–7

Extensive intra-abdominal-retroperitoneal fat necrosis in a patient with renal cell carcinoma. Yang MC, et al. **J Formos Med Assoc** 1996 Sep;95(9):719–21

Transferral of extrathoracic donor neoplasm by the cardiac allograft. Sack FU, et al. **J Heart Lung Transplant** 1997 Mar;16(3):298–301

Renal cell carcinoma presenting as a solitary anterior superior mediastinal mass. Mattana J, et al. **J Med** 1996; 27(3–4):205–10

Rapid neurological deterioration in a patient with multiple sclerosis treated with systemic interleukin-2 and interferon-alpha 2b for metastatic renal cell carcinoma [letter] Kinkel RP, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan;62(1):100

Report of 337 patients with renal cell carcinoma emphasizing 110 with stage IV disease and review of the literature. Guinan P, et al. **J Surg Oncol** 1997 Apr;64(4):295–8 (22 ref.)

Role of volume weighted mean nuclear volume for predicting disease outcome in patients with renal cell carcinoma. Fujikawa K, et al. **J Urol** 1997 Apr;157(4):1237–41

The impact of tumor size on clinical outcome in patients with localized renal cell carcinoma treated by radical nephrectomy. Nativ O, et al. **J Urol** 1997 Sep;158(3 Pt 1):729–32

Functional intactness of stimulatory and inhibitory autocrine loops in human renal carcinoma cell lines of the clear cell type. Ramp U, et al. **J Urol** 1997 Jun;157(6):2345–50

Microscopic vascular invasion is the most relevant prognosticator after radical nephrectomy for clinically nonmetastatic renal cell carcinoma. Van Poppel H, et al. **J Urol** 1997 Jul;158(1):45–9

Bellini duct carcinoma: a case report. Natsume O, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):107–10 (18 ref.)

Papillary renal cell carcinoma: a clinicopathologic and immunohistochemical study of 105 tumors. Delahunt B, et al. **Mod Pathol** 1997 Jun;10(6):537–44

Renal-cell carcinoma [letter; comment] Kuopio T, et al. **N Engl J Med** 1997 Mar 13;336(11):810; discussion 810–1 . Comment on: N Engl J Med 1996 Sep 19;335(12):865–75.

Recommendations for the reporting of resected neoplasms of the kidney. Association of Directors of Anatomic and Surgical Pathology. **Pathol Int** 1996 Sep;46(9):704–6

Chromophobe renal cell carcinoma. Pathologic, ultrastructural, immunohistochemical, cytofluorometric and cytogenetic findings. Morell-Quadreny L, et al. **Pathol Res Pract** 1996 Dec;192(12):1275–81; discussion 1282

Renal cell carcinoma metastases. Review of unusual clinical metastases, metastatic modes and patterns and comparison between clinical and autopsy metastatic series. Pagano S, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):165–72

The role of imaging in staging renal adenocarcinoma. Zagoria RJ, et al. **Semin Ultrasound CT MR** 1997 Apr;18(2):91–9 (27 ref.)

Cytoreductive surgery in the management of metastatic renal cell carcinoma: the UCLA experience. Franklin JR, et al. **Semin Urol Oncol** 1996 Nov;14(4):230–6

Natural history of renal cell carcinoma. Paulson DF. **Semin Urol Oncol** 1996 Nov;14(4):203–7 (16 ref.)

Inferior vena caval thrombus associated with double neoplasms of the retroperitoneum and kidney: report of a case. Furugaki K, et al. **Surg Today** 1996;26(8):658–61

Rapid extension of vena caval thrombus. Lash AE, et al. **Tech Urol** 1996 Winter;2(4):207–9

Sarcomatoid renal cell carcinoma with widespread metastases to liver and bones in a kidney transplant recipient. Katai M, et al. **Transplantation** 1997 May 15;63(9):1361–3

Imaging approach to staging of renal cell carcinoma. Bechtold RE, et al. **Urol Clin North Am** 1997 Aug; 24(3):507–22 (60 ref.)

Cell proliferation in renal cell carcinoma--a comparative study of cell kinetic methods. Larsson P, et al. **Urol Res** 1996;24(5):291–5

Recommendations for the reporting of resected neoplasms of the kidney. Association of Directors of Anatomical and Surgical Pathology. Nochomovitz LE, et al. **Virchows Arch** 1996 May;428(2):71–3

Multiple primary tumors: 17 cases of renal-cell carcinoma associated with primary tumors involving different steroid-hormone target tissues. Di Silverio F, et al. **World J Urol** 1997;15(3):203–9

Biology of metastasis and its clinical implications: renal-cell cancer. Ulchaker JC, et al. **World J Urol** 1996;14(3):175–81 (58 ref.)

[Renal cell carcinomas in children. Apropos of two cases] Boman F, et al. **Arch Anat Cytol Pathol** 1996;44(1):29–33 (Eng. Abstr.) **(Fre)**

[CAL 54, a new cell line derived from a human renal carcinoma: characterization and radiosensitivity] Gioanni J, et al. **Bull Cancer** 1996 Jul;83(7):553–8 (Eng. Abstr.) **(Fre)**

[The Fuhrman's grade] Lechevallier E. **Prog Urol** 1996 Dec; 6(6):979–80 **(Fre)**

[Carcinoma-in-carcinoma metastasis. In situ DNA quantification and immunohistochemical diagnosis] Sperb RA, et al. **Pathologe** 1996 Sep;17(5):385–90 (39 ref.) (Eng. Abstr.) **(Ger)**

[Imaging of small renal tumors] Biondetti PR. **Arch Ital Urol Androl** 1997 Apr;69(2):117–22 (Eng. Abstr.) **(Ita)**

[Multifocal renal carcinoma: anatomic-clinical aspects] Chinaglia D, et al. **Arch Ital Urol Androl** 1997 Apr; 69(2):105–7 (Eng. Abstr.) **(Ita)**

[Prognostic factors in organ-confined renal epithelial tumors] Tardanico R, et al. **Arch Ital Urol Androl** 1997 Apr; 69(2):101–4 (Eng. Abstr.) **(Ita)**

[Comparison of flow-cytometry and immunohistochemistry with proliferating monoclonal antibody. Cell nuclear antigen (PCNA) in the study of proliferative kinetics of renal carcinoma] Villari D, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:33–7 (Eng. Abstr.) **(Ita)**

[Unilateral and synchronous occurrence of renal cell carcinoma and ureteral tumor: a case report] Hashiba T, et al. **Hinyokika Kiyo** 1996 Oct;42(10):735–7 (Eng. Abstr.) **(Jpn)**

[Establishment of two renal cancer cell lines] Muraki J, et al. **Hinyokika Kiyo** 1997 Mar;43(3):177–83 (Eng. Abstr.) **(Jpn)**

[Bellini duct carcinoma of the kidney: a case report] Sue Y, et al. **Hinyokika Kiyo** 1997 Mar;43(3):213–6 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Prognostic significance of histopathological findings (including lymphocyte infiltration) in renal cell carcinoma] Tomita K, et al. **Hinyokika Kiyo** 1996 Dec;42(12):925–30 (Eng. Abstr.) **(Jpn)**

[Histopathological prognostic factors in 146 patients with renal cell carcinoma: comparison between incidental and non-incidental cases] Uwatoko N, et al. **Hinyokika Kiyo** 1996 May;42(5):341–5 (Eng. Abstr.) **(Jpn)**

[Prognostic factors in patients with non-metastatic renal cell carcinoma] Inomiya H, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep;87(9):1099–104 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Study of satellite tumor lesions and nucleolar organizer regions in renal cell carcinoma--concerning the propriety of nephron sparing surgery] Kobayashi M. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep;87(9):1071–81 (Eng. Abstr.) **(Jpn)**

[Enhancement of cytotoxic effect of anticancer agents of renal cell carcinoma] Okano M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1041–7 (Eng. Abstr.) **(Jpn)**

[Renal cell carcinoma--clinicopathological characteristics and future aspects] Onishi T. **Nippon Hinyokika Gakkai Zasshi** 1997 Jan;88(1):1–23 (208 ref.) **(Jpn)**

[A study of papillary renal cell carcinoma. Clinicopathological, immunohistochemical features and its typing] Ono Y, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jun;88(6):587–95 (Eng. Abstr.) **(Jpn)**

[Chromophobe renal cell carcinoma] Kuroda N, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):456–8 (16 ref.) **(Jpn)**

[Satellite intrarenal tumor nodules in renal carcinoma. Therapeutic implications] Gutiérrez Baños JL, et al. **Arch Esp Urol** 1996 Jul-Aug;49(6):580–6 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Molecular prognostic factor in renal cell carcinoma. Shimazui T, et al. **Semin Urol Oncol** 1996 Nov;14(4):250–5 (62 ref.)

Tubular PAH transport capacity in human kidney tissue and in renal cell carcinoma: correlation with various clinical and morphological parameters of the tumor. Fleck C, et al. **Urol Res** 1997;25(3):167–71

PREVENTION & CONTROL

Clinical research priorities in renal cell carcinoma: renal cell carcinoma chemoprevention strategies including target populations, proposed agents, and clinical trial designs--Workgroup No. 6. Union Internationale Contre le Cancer (UICC) and the American Joint Committee on Cancer (AJCC). Hanash KA, et al. **Cancer** 1997 Sep 1; 80(5):999–1001 (14 ref.)

Postoperative UFT adjuvant and the risk factors for recurrence in renal cell carcinoma: a long-term follow-up study. Kyushu University Urological Oncology Group. Naito S, et al. **Int J Urol** 1997 Jan;4(1):8–12

RADIOGRAPHY

Cystic renal masses: a reevaluation of the usefulness of the Bosniak classification system. Wilson TE, et al. **Acad Radiol** 1996 Jul;3(7):564–70

Trousseau's syndrome in renal cell carcinoma. Fischer C, et al. **Br J Urol** 1996 Sep;78(3):471–2

Gonadal vein recruitment in renal cell carcinoma: incidence, pathogenesis and clinical significance. Murphy BL, et al. **Clin Radiol** 1996 Nov;51(11):797–800

Cystic renal cell carcinoma: radiological features and clinico-pathological correlation. Ooi GC, et al. **Clin Radiol** 1996 Nov;51(11):791–6

Metastatic renal adenocarcinoma presenting in a breast screening programme. Bowditch MG, et al. **Eur J Surg Oncol** 1996 Dec;22(6):641–3

Renal cell carcinoma of clear type: correlation of CT features with tumor size, architectural patterns, and pathologic staging. Soyer P, et al. **Eur Radiol** 1997;7(2):224–9

Helical and electron beam CT scanning in the evaluation of renal vein involvement in patients with renal cell carcinoma. Welch TJ, et al. **J Comput Assist Tomogr** 1997 May-Jun;21(3):467–71

Fat density in renal cell carcinoma: demonstration with computerized tomography. Henderson RJ, et al. **J Urol** 1997 Apr;157(4):1347–8

RADIONUCLIDE IMAGING

Identification of interleukin-2-induced complete response in metastatic renal cell carcinoma by FDG PET despite radiographic evidence suggesting persistent tumor. Mankoff DA, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1049–50

Renal cell carcinoma detection and systemic therapy with tumour-affine gallium-67 and with yttrium-90 citrate solutions. Shukla SK, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1713–8

Tc-99m HMPAO uptake in renal cell carcinoma metastases. Tsukamoto E, et al. **Clin Nucl Med** 1997 Aug;22(8):569–70

99mTC-MIBI uptake in metastatic renal cell carcinoma [letter; comment] Croasdale IR, et al. **Eur J Nucl Med** 1997 Jan;24(1):88. Comment on: Eur J Nucl Med 1996 Aug;23(8):976–9.

Association of radionuclide bone scan and serum alkaline phosphatase in patients with metastatic renal cell carcinoma. Seaman E, et al. **Urology** 1996 Nov;48(5):692–5

RADIOTHERAPY

Renal cell carcinoma detection and systemic therapy with tumour-affine gallium-67 and with yttrium-90 citrate solutions. Shukla SK, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1713–8

IORT for locally advanced or recurrent renal cell carcinoma. Eble MJ, et al. **Front Radiat Ther Oncol** 1997;31:253–5

External radiation of brain metastases from renal carcinoma: a retrospective study of 119 patients from the M. D. Anderson Cancer Center. Wrónski M, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):753–9

Palliative irradiation for focally symptomatic metastatic renal cell carcinoma: support for dose escalation based on a biological model. DiBiase SJ, et al. **J Urol** 1997 Sep;158(3 Pt 1):746–9

Is post-operative radiation for renal cell carcinoma justified? Aref I, et al. **Radiother Oncol** 1997 May;43(2):155–7

SECONDARY

Ureteral stump metastasis from renal adenocarcinoma: case report and literature review. Leonard AM, et al. **Acta Urol Belg** 1996 Dec;64(4):23–5

Identification of interleukin-2-induced complete response in metastatic renal cell carcinoma by FDG PET despite radiographic evidence suggesting persistent tumor. Mankoff DA, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1049–50

Spontaneous regression of metastatic renal cancer. Case report and literature review. Lokich J. **Am J Clin Oncol** 1997 Aug;20(4):416–8 (34 ref.)

Solitary metastatic tumors to the pancreas: a case report and review of the literature [see comments] Robbins EG 2nd, et al. **Am J Gastroenterol** 1996 Nov;91(11):2414–7 (37 ref.) . Comment in: Am J Gastroenterol 1997 May;92(5):914–5.

Renal cell carcinoma presenting as a masseteric space mass. Gal TJ, et al. **Am J Otolaryngol** 1997 Jul-Aug;18(4):280–2

Surgical management of renal cell carcinoma with inferior vena cava tumor thrombus. Nesbitt JC, et al. **Ann Thorac Surg** 1997 Jun;63(6):1592–600

Chemotherapy with FUDR in the management of metastatic renal cell carcinoma. Aveta P, et al. **Ann Urol (Paris)** 1997; 31(3):159–63

Renal carcinoma with a solitary synchronous contralateral adrenal metastasis: a case report. Sapienza P, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):743–7 (13 ref.)

Renal cell carcinoma with cavitoatrial extension: case report and review of the literature. López Candales A, et al. **Bol Asoc Med P R** 1996 Apr-Jun;88(4–6):42–5 (27 ref.)

Bladder metastasis from renal cell carcinoma. Chinegwundoh FI, et al. **Br J Urol** 1997 Apr;79(4):650–1

Prognostic relevance of intracaval neoplastic extension for patients with renal cell cancer. Kuczyk MA, et al. **Br J Urol** 1997 Jul;80(1):18–24 (27 ref.)

Prognostic factors and surgical treatment of osseous metastases secondary to renal cell carcinoma. Althausen P, et al. **Cancer** 1997 Sep 15;80(6):1103–9

Natural history and therapy of metastatic renal cell carcinoma: the role of interleukin-2. Bukowski RM. **Cancer** 1997 Oct 1;80(7):1198–220 (222 ref.)

Of snails and holy grails... [comment] Yang JC. **Cancer J Sci Am** 1997 May-Jun;3(3):142–3. Comment on: Cancer J Sci Am 1997 May-Jun;3(3):157–62.

Renal cell carcinoma metastatic to the thumb: a case report and review of subungual metastases from all primary sites.

Vine JE, et al. **Clin Exp Dermatol** 1996 Sep;21(5):377–80 (11 ref.)
EORTC phase II study of daily oral linomide in metastatic renal cell carcinoma patients with good prognostic factors. de Wit R, et al. **Eur J Cancer** 1997 Mar;33(3):493–5
An EORTC phase II study of the efficacy and safety of linomide in the treatment of advanced renal cell carcinoma. Pawinski A, et al. **Eur J Cancer** 1997 Mar;33(3):496–9
Lung metastases of renal cell carcinoma: results of surgical resection. Fourquier P, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):17–21
99mTC-MIBI uptake in metastatic renal cell carcinoma [letter; comment] Croasdale IR, et al. **Eur J Nucl Med** 1997 Jan;24(1):88. Comment on: Eur J Nucl Med 1996 Aug;23(8):976–9.
Metastatic renal adenocarcinoma presenting in a breast screening programme. Bowditch MG, et al. **Eur J Surg Oncol** 1996 Dec;22(6):641–3
Late presentation of solitary contralateral adrenal metastasis of renal cell carcinoma. Mesurolle B, et al. **Eur Radiol** 1997; 7(4):557–8
Hepatectomy for metastatic renal cell carcinoma. Fujisaki S, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):817–9
Immunohistochemical differentiation of metastases of renal carcinomas versus other carcinomas with anti-gamma GT monoclonal antibody 138H11. Kaufmann O, et al. **Histopathology** 1997 Jul;31(1):31–7
Isolated late metastasis of a renal cell cancer treated by radical distal pancreatectomy. Barras JP, et al. **HPB Surg** 1996;10(1):51–3; discussion 53–4
Correlation of very late activation integrin and CD44 expression with extrarenal invasion and metastasis of renal cell carcinomas. Gilcrease MZ, et al. **Hum Pathol** 1996 Dec;27(12):1355–60
External radiation of brain metastases from renal carcinoma: a retrospective study of 119 patients from the M. D. Anderson Cancer Center. Wrónski M, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):753–9
Intraluminal tumor of the common bile duct as a metastasis of renal cell carcinoma. Miyagishima T, et al. **Intern Med** 1996 Sep;35(9):720–3
Tonsillar metastasis from a renal cell carcinoma presenting as a quinsy. Green KM, et al. **J Laryngol Otol** 1997 Apr; 111(4):379–80
Painful ophthalmoplegia syndrome secondary to metastatic renal cell carcinoma. Mehelas TJ, et al. **J Neuroophthalmol** 1996 Dec;16(4):289–90
Color Doppler ultrasonographic evaluation of renal cell carcinoma metastasis to the gallbladder. Lombardo FP, et al. **J Ultrasound Med** 1996 Oct;15(10):725–8
Palliative irradiation for focally symptomatic metastatic renal cell carcinoma: support for dose escalation based on a biological model. DiBiase SJ, et al. **J Urol** 1997 Sep;158(3 Pt 1):746–9
Patterns of tumor recurrence and guidelines for followup after nephron sparing surgery for sporadic renal cell carcinoma. Hafez KS, et al. **J Urol** 1997 Jun;157(6):2067–70
Lymphatogenous spread of renal cell carcinoma: an autopsy study. Johnsen JA, et al. **J Urol** 1997 Feb;157(2):450–3
The role of gamma-glutamyl transpeptidase in the preoperative metastatic evaluation of renal cell carcinoma. Sandock DS, et al. **J Urol** 1997 Mar;157(3):798–9
Surgery for metachronous solitary liver metastases of renal cell carcinoma. Stief CG, et al. **J Urol** 1997 Aug; 158(2):375–7
Renal cell carcinoma metastatic to the lung: potential benefit in the combination of biological therapy and surgery. Tanguay S, et al. **J Urol** 1996 Nov;156(5):1586–9
Renal cell carcinoma of the spindle cell type with metastasis to the pancreas: a case report. Zhao B, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):58–61 (34 ref.)
Metastatic renal cell carcinoma in a child: 11-year disease-free survival following surgery. Grant R, et al. **Med Pediatr Oncol** 1997 Mar;28(3):201–4
Choroidal metastases from renal cell carcinoma. Haimovici R, et al. **Ophthalmology** 1997 Jul;104(7):1152–8
Renal carcinoma: bilateral breast metastases in a child. Pursner M, et al. **Pediatr Radiol** 1997 Mar;27(3):242–3
Intracranial metastasis of renal cell carcinoma: MR imaging. Uchino A, et al. **Radiat Med** 1996 Mar–Apr;14(2):71–6
Spontaneous caval tumor thrombus necrosis and regression of pulmonary lesions in renal cell cancer. Bos SD, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):489–92
Contralateral adrenal metastasis in renal cell cancer. Dieckmann KP, et al. **Scand J Urol Nephrol** 1996 Apr; 30(2):139–43 (34 ref.)
Metachronous renal cell carcinoma metastases to spermatic cord and penis. Fallick ML, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):299–300
Renal cell carcinoma metastases. Review of unusual clinical metastases, metastatic modes and patterns and comparison between clinical and autopsy metastatic series. Pagano S, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):165–72
Survival of patients with renal cell carcinoma invading the inferior vena cava. Mattos RM, et al. **Semin Urol Oncol** 1996 Nov;14(4):223–6 (15 ref.)
Metastatic ureteral tumour. Chinegwundoh FI, et al. **Urol Int** 1996;56(1):55–6
Treatment of brain metastases from hypernephroma. Nieder C, et al. **Urol Int** 1996;57(1):17–20
Gallbladder metastasis of renal cell carcinoma. A case report and review of the literature. Sparwasser C, et al. **Urol Int** 1997;58(4):257–8 (8 ref.)
Synchronous and metachronous contralateral adrenal metastases from primary renal cell carcinoma. Stein A, et al. **Urol Int** 1997;58(1):58–60
The utility of video-assisted thoracic surgery in the diagnosis of pulmonary metastases from renal cell carcinoma. Amos AM, et al. **Urology** 1997 Jan;49(1):123–7
Preoperative transesophageal echocardiography for assessment of vena caval tumor thrombi: a comparative study with venacavography and magnetic resonance imaging. Glazer A, et al. **Urology** 1997 Jan;49(1):32–4
Adrenal metastases from renal cell carcinoma: role of ipsilateral adrenalectomy and definition of stage. Sandock DS, et al. **Urology** 1997 Jan;49(1):28–31
Association of radionuclide bone scan and serum alkaline phosphatase in patients with metastatic renal cell carcinoma. Seaman E, et al. **Urology** 1996 Nov;48(5):692–5
Progelatinase A mRNA expression in cell lines derived from tumors in patients with metastatic renal cell carcinoma correlates inversely with survival. Walther MM, et al. **Urology** 1997 Aug;50(2):295–301
A new strategy for management of retroperitoneal tumors with supradiaphragmatic vena caval thrombi. Zaima M, et al. **Urology** 1997 Jun;49(6):948–50
Biology of metastasis and its clinical implications: renal-cell cancer. Ulchaker JC, et al. **World J Urol** 1996;14(3):175–81 (58 ref.)
[Renal cancer presenting as parietal-temporal cerebral metastasis and a persistent fever] Markovic B, et al. **Ann Urol (Paris)** 1997;31(3):155–8 (Eng. Abstr.) **(Fre)**
[Unusual metastasis of hypernephroma in the maxillary sinus] Stieve M, et al. **Laryngorhinootologie** 1997 Jun;76(6):374–8 (Eng. Abstr.) **(Ger)**
[Repetitive immuno-embolization of inoperative liver metastases of renal cell carcinoma. Method characterization and preliminary results] Pomer S, et al. **Urologe A** 1996 Jul;35(4):310–4 (Eng. Abstr.) **(Ger)**
[Brain metastases in renal cell carcinoma. Results of treatment and prognosis] Pomer S, et al. **Urologe A** 1997 Mar; 36(2):117–25 (Eng. Abstr.) **(Ger)**
[Renal cell carcinoma with vena cava involvement. Surgical strategies and results] Staehler G, et al. **Urologe A** 1997 Mar;36(2):109–16 (Eng. Abstr.) **(Ger)**
[A case of renal cell carcinoma with solitary metastasis to the contralateral adrenal gland] Arai G, et al. **Hinyokika Kiyo** 1997 Jan;43(1):29–31 (Eng. Abstr.) **(Jpn)**
[A case study of metastatic renal cell carcinoma in lungs showing complete response to continuous subcutaneous injection of interferon alpha and gamma] Kawata N, et al. **Hinyokika Kiyo** 1996 Jul;42(7):509–12 (Eng. Abstr.) **(Jpn)**
[Effect of pamidronate and interferon-alpha on bone and lung metastases and hypercalcemia in a patient with renal cell carcinoma] Kise H, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):879–81 (Eng. Abstr.) **(Jpn)**
[A case report of renal cell carcinoma with bilateral adrenal metastases] Miyamoto S, et al. **Hinyokika Kiyo** 1997 Feb; 43(2):127–30 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Study on the surgical treatment for pulmonary metastasis from renal cell carcinoma] Hoshi S, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jan;88(1):46–52 (Eng. Abstr.) **(Jpn)**
[Successful treatment of metastatic renal cell carcinoma with cimetidine--report of two cases] Nagano T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Oct;87(10):1201–4 (Eng. Abstr.) **(Jpn)**
[A case report of surgical resection of renal cell carcinoma with intrathoracic metastasis] Nakamura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1800–4 (Eng. Abstr.) **(Jpn)**
[Metastatic lung cancer from renal cell carcinoma effectively treated by bronchial artery embolization] Akiyama J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1459–63 (Eng. Abstr.) **(Jpn)**
[Case of renal cell carcinoma metastasis to the muscles with secondary amyloidosis] Nakajima K, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):130–2 **(Jpn)**
[Gallbladder metastasis from renal cell carcinoma--a report of a case] Uchiyama T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):68–72 (14 ref.) **(Jpn)**
[Metastasis of kidney carcinoma to thyroid gland seventeen years after resection of primary tumor] de Lima MA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul–Aug; 51(4):138–9 (Eng. Abstr.) **(Por)**
[High-dose medroxyprogesterone acetate in the treatment of metastatic carcinoma of renal parenchyma] Popov I, et al. **Srp Arh Celok Lek** 1996 Mar–Apr;124(3–4):73–6 (Eng. Abstr.) **(Scc)**
[A metastatic muscle mass as the first manifestation of renal-cell cancer. A case report and review of the literature] de Portugal Fernández del Rivero T, et al. **An Med Interna** 1997 Apr;14(4):184–6 (20 ref.) (Eng. Abstr.) **(Spa)**

SECRETION

Loss of circadian rhythm in erythropoietin production in a patient with renal erythropoietin secreting neoplasia [letter] Buemi M, et al. **Clin Nephrol** 1997 Feb;47(2):134–5

SURGERY

Massive pulmonary embolus after surgery for renal cell carcinoma extending into the inferior vena cava: a case report. Friedell ML, et al. **Am Surg** 1997 Jun;63(6):516–8
Left-sided approach to renal cell carcinoma tumor thrombus extending into suprahepatic inferior vena cava by resection of the left caudate lobe. Ohwada S, et al. **Angiology** 1997 Jul;48(7):629–35
Surgical management of renal cell carcinoma with inferior vena cava tumor thrombus. Nesbitt JC, et al. **Ann Thorac Surg** 1997 Jun;63(6):1592–600
Conservative surgery for renal cell carcinoma. Terrone C, et al. **Ann Urol (Paris)** 1997;31(3):137–44 (55 ref.)
Enucleation of renal cell carcinoma in an allograft kidney 21 years after transplantation. Park KI, et al. **Br J Urol** 1997 Aug;80(2):339–40
Surgical management of the renal manifestations of von Hippel-Lindau disease: a review of a United Kingdom case series. Persad RA, et al. **Br J Urol** 1997 Sep;80(3):392–6
Prognostic factors and surgical treatment of osseous metastases secondary to renal cell carcinoma. Althausen P, et al. **Cancer** 1997 Sep 15;80(6):1103–9
Resection of hypernephromas with vena caval or right atrial tumor extension using extracorporeal circulation and deep hypothermic circulatory arrest: a multidisciplinary approach. Welz A, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):127–32
Radical nephrectomy for renal cell carcinoma: long-term results and prognostic factors on a series of 328 cases. Giberti C, et al. **Eur Urol** 1997;31(1):40–8
Laparoscopic tumorectomy for renal cell carcinoma in a HIV-positive patient. Puppo P, et al. **Eur Urol** 1997; 31(4):497–8
Hepatectomy for metastatic renal cell carcinoma. Fujisaki S, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):817–9
Balloon catheter-assisted inferior vena cava tumor thrombectomy without thoracotomy. Yanaga K, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):796–7
Isolated late metastasis of a renal cell cancer treated by radical distal pancreatectomy. Barras JP, et al. **HPB Surg** 1996;10(1):51–3; discussion 53–4
Case report of a patient with bilateral renal cell carcinoma successfully maintained on continuous ambulatory peritoneal dialysis after bilateral nephrectomy. Nishida Y, et al. **Int J Artif Organs** 1997 Apr;20(4):213–6
Effect of surgical stress on immune function in patients with urologic cancer. Mizutani Y, et al. **Int J Urol** 1996 Nov; 3(6):426–34
Laparoscopic adrenalectomy for solitary metachronous contralateral adrenal metastasis from renal cell carcinoma. Elashry OM, et al. **J Urol** 1997 Apr;157(4):1217–22 (37 ref.)
Patterns of tumor recurrence and guidelines for followup after nephron sparing surgery for sporadic renal cell carcinoma. Hafez KS, et al. **J Urol** 1997 Jun;157(6):2067–70
The impact of tumor size on clinical outcome in patients with localized renal cell carcinoma treated by radical nephrectomy. Nativ O, et al. **J Urol** 1997 Sep;158(3 Pt 1):729–32
Laparoscopic radical nephrectomy: the Nagoya experience. Ono Y, et al. **J Urol** 1997 Sep;158(3 Pt 1):719–23
Surgery for metachronous solitary liver metastases of renal cell carcinoma. Stief CG, et al. **J Urol** 1997 Aug; 158(2):375–7
Renal cell carcinoma metastatic to the lung: potential benefit in the combination of biological therapy and surgery. Tanguay S, et al. **J Urol** 1996 Nov;156(5):1586–9
Hypercalcemia in patients with metastatic renal cell carcinoma: effect of nephrectomy and metabolic evaluation. Walther MM, et al. **J Urol** 1997 Sep;158(3 Pt 1):733–9
Analysis of prognostic factors for patients with single brain metastasis treated with stereotactic radiosurgery. Fernandez-Vicioso E, et al. **Radiat Oncol Investig** 1997; 5(1):31–7
Surgical enucleation for renal cell carcinoma (RCC). Prognostic significance of tumour stage, grade and DNA ploidy. Di Silverio F, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):123–8
Is routine ipsilateral adrenalectomy during radical nephrectomy harmful for the patient? Hellström PA, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):19–25
Imaging work-up: is it renal carcinoma and is it operable? Barbaric ZL. **Semin Urol Oncol** 1996 Nov;14(4):196–202 (31 ref.)
Nephron-sparing surgery for renal cell carcinoma. Griffin JH, et al. **Tech Urol** 1996 Spring;2(1):43–7 (14 ref.)
Nephron-sparing surgery in a renal allograft. Krishnamurthi V, et al. **Urology** 1997 Jul;50(1):132–4
Partial nephrectomy for pediatric renal cell carcinoma: an unusual case presentation. Manion S, et al. **Urology** 1997 Mar;49(3):465–8 (9 ref.)
Adrenal metastases from renal cell carcinoma: role of ipsilateral adrenalectomy and definition of stage. Sandock DS, et al. **Urology** 1997 Jan;49(1):28–31
[Value of nephron preservation in conservative surgery of renal tumors] Lebret T, et al. **Ann Urol (Paris)** 1997; 31(3):145–9 (Eng. Abstr.) **(Fre)**
[Is surgery useful in kidney cancer with lymph node invasion?] Li GR, et al. **Ann Urol (Paris)** 1997;31(3):151–4 (Eng. Abstr.) **(Fre)**
[Renal cell adenocarcinomas. Report of 64 cases] Trifa M,

et al. **Ann Urol (Paris)** 1997;31(3):117–22 (Eng. Abstr.) **(Fre)**

[Synchronous bilateral renal cell carcinoma. Renal transplantation after nephrectomy] Lobbedez T, et al. **Presse Med** 1997 Feb 1;26(2):66–9 (12 ref.) (Eng. Abstr.) **(Fre)**

[The necessity for perioperative cortisol substitution. Spontaneous and stimulated ACTH and cortisol secretion during unilateral adrenalectomy for renal cell carcinoma] Bischoff P, et al. **Anaesthesist** 1997 Apr;46(4):303–8 (Eng. Abstr.) **(Ger)**

[Status of organ preserving surgery in renal cell carcinoma] Brkovic D, et al. **Urologe A** 1997 Mar;36(2):103–8 (33 ref.) (Eng. Abstr.) **(Ger)**

[Rational diagnosis and surgical therapy of renal cell carcinoma with tumor thrombosis in the vena cava] Piechota HJ, et al. **Urologe A** 1997 Jan;36(1):54–63 (47 ref.) (Eng. Abstr.) **(Ger)**

[The clinical significance of renal cell carcinoma in dialysis dependent patients in comparison with kidney transplant recipients] Wiesel M, et al. **Urologe A** 1997 Mar;36(2):126–9 (Eng. Abstr.) **(Ger)**

[Nephron sparing surgery for renal cell carcinoma] Faris G, et al. **Harefuah** 1996 Nov 15;131(10):438–40 (17 ref.) **(Heb)**

[Conservative surgery of parenchymal renal carcinoma: urologic data from Lombardy] Belussi D, et al. **Arch Ital Urol Androl** 1997 Apr;69(2):87–91 (Eng. Abstr.) **(Ita)**

[Conservative therapy in renal carcinoma: follow-up] Buizza C, et al. **Arch Ital Urol Androl** 1997 Apr;69(2):93–100 (Eng. Abstr.) **(Ita)**

[Conservative therapy of renal parenchymal neoplasia] Cozzoli A, et al. **Arch Ital Urol Androl** 1997 Apr; 69(2):109–15 (Eng. Abstr.) **(Ita)**

[Conservative treatment of renal cell carcinoma: framework, incidence and classification] Del Nero A, et al. **Arch Ital Urol Androl** 1997 Apr;69(2):81–6 (31 ref.) (Eng. Abstr.) **(Ita)**

[A clinical study of renal cell carcinoma with extension into the inferior vena cava] Okuno T, et al. **Hinyokika Kiyo** 1996 Jul;42(7):487–91 (Eng. Abstr.) **(Jpn)**

[Two stage nephron sparing operation for synchronous bilateral renal cell carcinoma: a case report] Uchiyama K, et al. **Hinyokika Kiyo** 1996 Nov;42(11):875–8 (Eng. Abstr.) **(Jpn)**

[A case of inflammatory pseudotumor of the lung with suppressed immune response in the patient with renal cell carcinoma after nephrectomy and administration of interferon] Fukushima M, et al. **Kyobu Geka** 1996 Jul; 49(7):595–8 (Eng. Abstr.) **(Jpn)**

[Anesthetic management of a patient with renal cell carcinoma extending into the right atrium] Tashiro T, et al. **Masui** 1996 Jul;45(7):861–4 (Eng. Abstr.) **(Jpn)**

[Perioperative management of a patient with bilateral renal cell cancer and large vena caval tumor thrombosis] Yokoyama T, et al. **Masui** 1996 Sep;45(9):1149–52 (Eng. Abstr.) **(Jpn)**

[Study on the surgical treatment for pulmonary metastasis from renal cell carcinoma] Hoshi S, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jan;88(1):46–52 (Eng. Abstr.) **(Jpn)**

[A case report of surgical resection of renal cell carcinoma with intrathoracic metastasis] Nakamura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1800–4 (Eng. Abstr.) **(Jpn)**

THERAPY

Reduction of brain metastasis following immunotherapy with interleukin-2 for stage IV renal cell cancer. Citterio G, et al. **Acta Oncol** 1997;36(2):228

Prevention and treatment of renal carcinoma: new genetic strategies. Junien C, et al. **Adv Nephrol Necker Hosp** 1997; 26:81–106 (130 ref.)

Immunotherapy of metastatic renal cell cancer. Goey SH, et al. **Ann Oncol** 1996 Nov;7(9):887–900 (253 ref.)

Can the CD4+/CD8+ ratio predict the outcome of interferon-alpha therapy for renal cell carcinoma? Hernberg M, et al. **Ann Oncol** 1997 Jan;8(1):71–7

Heparin induces rapid and remarkable elevation of hepatocyte growth factor/scatter factor during trans arterial embolization of renal cell carcinoma. Yamazaki H, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1435–7

The influence of interleukin-2 administration on met-enkephalins in patients with renal carcinoma. Braczkowski R, et al. **Biochem Soc Trans** 1997 May; 25(2):164S

A randomised dose escalation study of subcutaneous interleukin 2 with and without levamisole in patients with metastatic renal cell carcinoma or malignant melanoma. Ahmed FY, et al. **Br J Cancer** 1996 Oct;74(7):1109–13

Treatment of metastatic renal cell carcinoma with subcutaneous interleukin 2: evidence for non-renal clearance of cytokines. Banks RE, et al. **Br J Cancer** 1997; 75(12):1842–8

Effectiveness of very low doses of immunotherapy in advanced renal cell cancer. Buzio C, et al. **Br J Cancer** 1997;76(4):541–4

Natural history and therapy of metastatic renal cell carcinoma: the role of interleukin-2. Bukowski RM. **Cancer** 1997 Oct 1;80(7):1198–220 (222 ref.)

A phase II study of interferon alpha and low-dose subcutaneous interleukin-2 in advanced renal cell carcinoma. Piga A, et al. **Cancer Immunol Immunother** 1997 Aug;44(6):348–51

The prognostic significance of immune changes in patients with renal cancer, melanoma and colorectal cancer, treated with interferon alpha 2b. Tsavaris N, et al. **Cancer Immunol Immunother** 1996 Oct;43(2):94–102

Prognostic markers for survival in patients with metastatic renal cell carcinoma treated with interleukin-2. van Bezooijen RL, et al. **Cancer Immunol Immunother** 1996 Dec;43(5):293–8

Bioactivity of autologous irradiated renal cell carcinoma vaccines generated by ex vivo granulocyte-macrophage colony-stimulating factor gene transfer. Simons JW, et al. **Cancer Res** 1997 Apr 15;57(8):1537–46

Suprarenal inferior vena cava filter placement prior to transcatheter arterial embolization (TAE) of a renal cell carcinoma with large renal vein tumor thrombus: prevention of pulmonary tumor emboli after TAE. Hirota S, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr; 20(2):139–41

Clinical practice guidelines: renal cell carcinoma. Bukowski RM, et al. **Cleve Clin J Med** 1997;64 Suppl 1:SI1–44; quiz SI45–7 (291 ref.)

Complete remission of extensive metastatic renal cancer following immunotherapy. Plowman PN, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):176–80

Inferior vena cava filter used for unresectable renal cell carcinoma with tumor thrombi. Gohji K, et al. **Int J Urol** 1996 Nov;3(6):504–7

Application of the interferon minipellet to human renal cell carcinoma in nude mice. Marumo K, et al. **Int J Urol** 1997 Jan;4(1):55–61

Biochemical modulation of 5-fluorouracil with murine interferon-alpha/beta against murine renal cell carcinoma. Marumo K, et al. **Int J Urol** 1997 Mar;4(2):163–8

Adoptive immunotherapy with vaccine-primed lymph node cells secondarily activated with anti-CD3 and interleukin-2. Chang AE, et al. **J Clin Oncol** 1997 Feb; 15(2):796–807

Targeting of renal cell carcinoma with iodine-131-labeled chimeric monoclonal antibody G250. Steffens MG, et al. **J Clin Oncol** 1997 Apr;15(4):1529–37

The usefulness of serum levels of CEA, CA 50, and ferritin in the management of renal cell cancer. Kokocińska D, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):279–81

Use of cryopreserved lymphocytes for assessment of the immunological effects of interferon therapy in renal cell carcinoma patients. Sobota V, et al. **J Immunol Methods** 1997 Apr 11;203(1):1–10

Phase II trial of interleukin-2 and interferon-alpha in patients with renal cell carcinoma: clinical results and immunologic correlates of response. Bukowski RM, et al. **J Immunother** 1997 Jul;20(4):301–11

A prospective randomized evaluation of the prophylactic use of low-dose dopamine in cancer patients receiving interleukin-2. Cormier JN, et al. **J Immunother** 1997 Jul; 20(4):292–300

High-dose regimen of interleukin-2 and interferon-alpha in combination with lymphokine-activated killer cells in patients with metastatic renal cell cancer. Kruit WH, et al. **J Immunother** 1997 Jul;20(4):312–20

Natural immune reactivity-associated therapeutic response in patients with metastatic renal cell carcinoma receiving tumor-infiltrating lymphocytes and interleukin-2-based therapy. Belldegrun A, et al. **J Immunother Emphasis Tumor Immunol** 1996 Mar; 19(2):149–61

A phase I randomized study of subcutaneous adjuvant IL-2 in combination with an autologous tumor vaccine in patients with advanced renal cell carcinoma. Fenton RG, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):364–74

Anti-renal-cell carcinoma chimeric antibody G250 facilitates antibody-dependent cellular cytotoxicity with in vitro and in vivo interleukin-2-activated effectors. Surfus JE, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):184–91

Cellular and molecular analyses of major histocompatibility complex (MHC) restricted and non-MHC-restricted effector cells recognizing renal cell carcinomas: problems and perspectives for immunotherapy. Schendel DJ, et al. **J Mol Med** 1997 Jun;75(6):400–13 (119 ref.)

Immunostimulatory therapy with anti-CD3 monoclonal antibodies and recombinant interleukin-2: heightened in vivo expression of mRNA encoding cytotoxic attack molecules and immunoregulatory cytokines and regression of murine renal cell carcinoma. Asano T, et al. **J Urol** 1997 Jun;157(6):2396–401

Treatment of metastatic renal cell carcinoma with nephrectomy, interleukin-2 and cytokine-primed or CD8(+) selected tumor infiltrating lymphocytes from primary tumor. Figlin RA, et al. **J Urol** 1997 Sep;158(3 Pt 1):740–5

Human renal cancers resistant to IFN's antiproliferative action exhibit sensitivity to IFN's gene-inducing and antiviral actions. Pfeffer LM, et al. **J Urol** 1996 Nov; 156(5):1867–71

Metastatic renal cell carcinoma in a child: 11-year disease-free survival following surgery. Grant R, et al. **Med Pediatr Oncol** 1997 Mar;28(3):201–4

Renal-cell carcinoma [letter; comment] Atkins MB, et al. **N Engl J Med** 1997 Mar 13;336(11):809; discussion 810–1 . Comment on: N Engl J Med 1996 Sep 19;335(12):865–75.

Renal-cell carcinoma [letter; comment] Bosniak MA. **N Engl J Med** 1997 Mar 13;336(11):810; discussion 810–1 . Comment on: N Engl J Med 1996 Sep 19;335(12):865–75.

Immunotherapy and metastic renal cell cancer [letter] Buzio C, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1890

A case of nephrotic syndrome developing during postoperative gamma interferon therapy for renal cell carcinoma. Tashiro M, et al. **Nephron** 1996;73(4):685–8

The role of adoptive immunotherapy in solid cancers. Kruit WH, et al. **Neth J Med** 1997 Feb;50(2):47–68 (270 ref.)

Embolization as treatment for spinal cord compression from renal cell carcinoma: case report. Kuether TA, et al. **Neurosurgery** 1996 Dec;39(6):1260–2; discussion 1262–3

Long-term results of ethanol embolization of renal cell carcinoma. Saitoh H, et al. **Radiat Med** 1997 Mar–Apr; 15(2):99–102

Cytoreductive surgery in the management of metastatic renal cell carcinoma: the UCLA experience. Franklin JR, et al. **Semin Urol Oncol** 1996 Nov;14(4):230–6

Immunotherapy and gene therapy. Gitlitz BJ, et al. **Semin Urol Oncol** 1996 Nov;14(4):237–43 (51 ref.)

Prognostic factors of peripheral blood lymphocyte subsets in patients with renal cell carcinoma. Arima K, et al. **Urol Int** 1996;57(1):5–10

Cyclic interferon alpha treatment in metastatic renal cell carcinoma: results of a phase II study and review of the literature. Hofmockel G, et al. **Urol Int** 1997;58(1):8–12 (34 ref.)

Modulation of platelet-activating factor synthesis by recombinant interferon-alpha in human renal cell carcinoma. Imagawa M, et al. **Urol Int** 1996;57(1):11–6

Treatment of brain metastases from hypernephroma. Nieder C, et al. **Urol Int** 1996;57(1):17–20

Prognostic value of the immunomonitoring of patients with renal cell carcinoma under therapy with IL-2/IFN-alpha-2 in combination with 5-FU. Göhring B, et al. **Urol Res** 1996;24(5):297–303

[Interferon-alpha-induced psoriasis vulgaris] Wölfer LU, et al. **Hautarzt** 1996 Feb;47(2):124–8 (Eng. Abstr.) **(Ger)**

[Immunochemotherapy of metastatic renal cell carcinoma with interleukin 2, interferon-alpha and 5-fluorouracil] Hofmockel G, et al. **Urologe A** 1997 Jan;36(1):45–9 (Eng. Abstr.) **(Ger)**

[Immunotherapy of metastatic renal cell carcinoma. Is clinical use justified in view of outcome, side effects and costs?] Oberneder R, et al. **Urologe A** 1997 Mar;36(2):130–7 (56 ref.) (Eng. Abstr.) **(Ger)**

[Renal cell carcinoma (editorial)] Staehler G. **Urologe A** 1997 Mar;36(2):101–2 **(Ger)**

[Clinical response and survival in metastatic renal carcinoma during subcutaneous administration of interleukin-2 alone. Subcutaneous Il-2 in renal carcinoma] Lissoni P, et al. **Arch Ital Urol Androl** 1997 Feb;69(1):41–7 (Eng. Abstr.) **(Ita)**

[Preoperative subcutaneous immunotherapy with interleukin-2 in renal carcinoma with synchronous metastasis: randomized clinico-biological study. Preoperative use of Il-2 in renal carcinoma] Scardino E, et al. **Arch Ital Urol Androl** 1997 Feb;69(1):49–54 (Eng. Abstr.) **(Ita)**

[Combination therapy with 5-fluorouracil (5-FU), cisplatin (CDDP) and interferon alpha-2B (IFN alpha-2B) for advanced renal cell carcinoma] Fujinami K, et al. **Gan To Kagaku Ryoho** 1996 Oct;23(12):1689–91 (Eng. Abstr.) **(Jpn)**

[Tumor reduction in advanced renal cell carcinoma with tumor thrombus by renal embolization, interferon-alpha and UFT. A case report] Shiomi K, et al. **Hinyokika Kiyo** 1997 Mar;43(3):217–21 (Eng. Abstr.) **(Jpn)**

[Study on anti-tumour effects of interleukin 12 for spontaneously arose murine renal cell carcinoma] Onishi T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Oct; 87(10):1175–82 (Eng. Abstr.) **(Jpn)**

[Characterization of tumor infiltrating lymphocytes from patients with renal cell carcinoma--influence of combination therapy with interferon alpha and gamma] Yanagiya H, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Jun;87(6):928–36 (Eng. Abstr.) **(Jpn)**

[Metastatic lung cancer from renal cell carcinoma effectively treated by bronchial artery embolization] Akiyama J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1459–63 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Sonographic detection of a renal mass in a young adult: a case for radiologic screening of new-onset ureteral colic [letter] Silber SH, et al. **Acad Emerg Med** 1997 Aug; 4(8):831–3

Accuracy of color Doppler sonography in assessing venous thrombus extension in renal cell carcinoma. Habboub HK, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):267–71

Transition from renal cyst to a renal carcinoma detected by ultrasonography. Bowers DL, et al. **Br J Urol** 1997 Sep; 80(3):495–6

Cystic renal cell carcinoma: radiological features and clinico-pathological correlation. Ooi GC, et al. **Clin Radiol** 1996 Nov;51(11):791–6

Characterization of renal angiomyolipoma by scanning acoustic microscopy. Sasaki H, et al. **J Pathol** 1997 Apr;

181(4):455–61
Abdominal sonography in asymptomatic executives: prevalence of pathologic findings, potential benefits, and problems. Spouge AR, et al. **J Ultrasound Med** 1996 Nov; 15(11):763–7; quiz 769–70
Differentiation of renal cell carcinomas from angiomyolipomas by ultrasonic frequency dependent attenuation. Taniguchi N, et al. **J Urol** 1997 Apr; 157(4):1242–5
Ultrasonic tissue characterization of renal cell carcinoma tissue. Sasaki H, et al. **Nephron** 1996;74(1):125–30

ULTRASTRUCTURE

Ultrastructural evaluation of renal cell oncocytomas. Simmons JL, et al. **Ultrastruct Pathol** 1996 Jul–Aug; 20(4):395–7
[Electron microscopic analysis of eosinophilic renal cell carcinoma] Miladinović M, et al. **Srp Arh Celok Lek** 1996; 124 Suppl 1:200–1 (Eng. Abstr.) **(Scc)**

URINE

Evaluation of urinary glycosaminoglycan excretion in patients with renal cell carcinoma. Sarica K, et al. **Eur Urol** 1997;31(1):54–7
[A tryptophan metabolic disorder in patients with kidney tumors] Zhurkina OV. **Urol Nefrol (Mosk)** 1996 Jul–Aug; (4):14–7 (Eng. Abstr.) **(Rus)**

CARCINOMA, RESERVE CELL see **CARCINOMA, SMALL CELL**

CARCINOMA, ROUND CELL see **CARCINOMA, SMALL CELL**

CARCINOMA, SCIRRHOUS see **ADENOCARCINOMA, SCIRRHOUS**

CARCINOMA, SIGNET RING CELL

CHEMISTRY

Signet-ring carcinoma of the prostate. Leong FJ, et al. **Pathol Res Pract** 1996 Dec;192(12):1232–8; discussion 1239–41 (30 ref.)

COMPLICATIONS

Perianal extramammary Paget's disease associated with primary linitis plastica of the rectum: report of a case. Ikoma A, et al. **Surg Today** 1996;26(9):711–4

DIAGNOSIS

Meningeal carcinomatosis as the presenting manifestation of gastric adenocarcinoma. Deeb LS, et al. **Am J Gastroenterol** 1997 Feb;92(2):329–31 (22 ref.)
Gastric cancer during early pregnancy. Two case reports. Scharl A, et al. **Arch Gynecol Obstet** 1996;258(3):151–4
The use of DNA fingerprinting to clarify uncertainties about an endoscopic biopsy specimen that unexpectedly revealed gastric cancer. Fleischer DE, et al. **Gastrointest Endosc** 1997 Mar;45(3):318–9
Signet-ring cell carcinoma of the endometrium: a primary tumor masquerading as a metastasis. Mooney EE, et al. **Int J Gynecol Pathol** 1997 Apr;16(2):169–72

DRUG THERAPY

[Unresectable gastric cancer followed by remarkably effective tumor disappearance and good quality of life for 10 months after CDDP/5'-DFUR combination chemotherapy--a case report] Hoshino K, et al. **Gan To Kagaku Ryoho** 1996 Nov;23(13):1841–5 (Eng. Abstr.) **(Jpn)**
[Arterial infusion chemotherapy for advanced gastric cancer by sequential MTX/5-FU] Kitamura M, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1464–6 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Synchronous signet ring cell carcinoma and squamous cell carcinoma arising in an augmented ileocystoplasty. Case report and review of the literature. Fernandez-Arjona M, et al. **Eur Urol** 1996;29(1):125–8 (14 ref.)
Signet ring cell carcinoma in hyperplastic polyp [letter; comment] Carneiro F, et al. **Scand J Gastroenterol** 1996 Jan;31(1):95–6. Comment on: Scand J Gastroenterol 1995 Jun;30(6):604–8.

GENETICS

[Analysis of microsatellite regions and DNA ploidy pattern in signet ring cell carcinomas of the stomach] Kimura T, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:273–8 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Clonal dominance of human autologous cytotoxic T lymphocytes against gastric carcinoma: molecular stability of the CDR3 structure of the TCR alphabeta gene. Ikeda H, et al. **Int Immunol** 1996 Jan;8(1):75–82

METABOLISM

p53 overexpression and proliferative activity do not correlate with lymph node metastasis in early gastric cancer. Kanai T, et al. **Eur Surg Res** 1997;29(1):35–41
Mucin antigen expression in gastric carcinomas of young and old adults. Sakamoto H, et al. **Hum Pathol** 1997 Sep; 28(9):1056–65

PATHOLOGY

Primary signet ring cell carcinoma of colorectum: an age- and sex-matched controlled study. Tung SY, et al. **Am J Gastroenterol** 1996 Oct;91(10):2195–9
Artifactual signet-ring-like cells in endoscopic biopsy of gastric lymphoma. Arista-Nasr J, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):623–5
Diagnostic significance of signet ring cells in fine-needle aspirates of the breast. Sethi S, et al. **Diagn Cytopathol** 1997 Feb;16(2):117–21
Primary signet-ring cell carcinoma of the urinary bladder. Torenbeek R, et al. **Histopathology** 1996 Jan;28(1):33–40
Locally-confined signet-ring cell carcinoma of the prostate: a case report of a long-term survivor. Yoshimura K, et al. **Int J Urol** 1996 Sep;3(5):406–7
Five primary synchronous neoplasms of the gastrointestinal tract. Mitchell ME, et al. **J Clin Gastroenterol** 1996 Dec; 23(4):284–8
Gastric metastasis of mammary signet ring cell carcinoma--a differential diagnosis with primary gastric signet ring cell carcinoma. Yim H, et al. **J Korean Med Sci** 1997 Jun; 12(3):256–61
Primary adenocarcinoma, signet-ring, and transitional cell carcinoma of the bladder with penile metastasis. Allen RA, et al. **J Natl Med Assoc** 1997 Apr;89(4):253–6
Clinicopathologic study of advanced gastric cancer without serosal invasion in young and old patients. Wang JY, et al. **J Surg Oncol** 1996 Sep;63(1):36–40
Correspondence Re: Suster S. Fletcher DM: Gastrointestinal stromal tumors with prominent signet-ring cell features. Mod Pathol 9:609, 1996 [letter; comment] Schned AR. **Mod Pathol** 1996 Nov;9(11):1089. Comment on: Mod Pathol 1996 Jun;9(6):609–13.
Gastrointestinal stromal tumors with prominent signet-ring cell features [see comments] Suster S, et al. **Mod Pathol** 1996 Jun;9(6):609–13. Comment in: Mod Pathol 1996 Nov;9(11):1089.
Signet ring cell carcinoma of the eccrine sweat glands in the eyelid. Wollensak G, et al. **Ophthalmology** 1996 Nov; 103(11):1788–93 (34 ref.)
A human gall-bladder signet ring cell carcinoma cell line. Nishida T, et al. **Pathol Int** 1997 Jun;47(6):368–76
Primary signet ring cell carcinoma of the bladder: a report on 10 cases. Holmäng S, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):145–8
Intestinalization of gastric signet ring cell carcinomas with progression. Yamachika T, et al. **Virchows Arch** 1997 Aug; 431(2):103–10
[Signet ring cell adenocarcinoma of the colon (signet ring carcinoma): is it really a rare neoplasm?] Bianchi G, et al. **G Chir** 1997 May;18(5):283–5 (Eng. Abstr.) **(Ita)**
[Case of Barrett esophageal neoplasm] Morita H, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):133–5 **(Jpn)**
[A case of adenosquamous carcinoma of the esophagus, having signet ring cell carcinoma and mucinous adenocarcinoma in the component of well differentiated adenocarcinoma] Tomimatsu H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep;93(9):644–9 (18 ref.) **(Jpn)**
[A case of synchronous triple early cancer occurring in the stomach, colon and gallbladder] Yazawa K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jun;94(6):440–4 (12 ref.) **(Jpn)**
[Primary signet ring cell adenocarcinoma of the bladder. Report of 2 cases of bladder plastic linitis] González Minguez C, et al. **Arch Esp Urol** 1996 Jun;49(5):517–20 (27 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

[Conversion from peridural to transdermal opiate analgesia in abdominal tumor pain syndrome] Schuler M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 May; 32(5):322–4 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

Has radiation therapy any role in signet-ring cell breast adenocarcinoma? [letter] Ruiz V, et al. **Eur J Cancer** 1997 May;33(6):977–8

SECONDARY

Cytologic analysis of primary stomach adenocarcinoma metastatic to the uterine cervix. Matsuura Y, et al. **Acta Cytol** 1997 Mar–Apr;41(2):291–4
Metastatic signet-ring cell adenocarcinoma to the urinary bladder. Saba NF, et al. **Acta Oncol** 1997;36(2):219–20
Occult gastric cancer presenting as cor pulmonale resulting from tumor cell microembolism. Cheung TC, et al. **Am J Gastroenterol** 1997 Jun;92(6):1057–9
Metastatic skin cancer; a case with signet ring cell histology. Inoue Y, et al. **Br J Dermatol** 1996 Oct;135(4):634–7
Signet-ring cell carcinoma of the rectum with tonsillar metastasis: a case report. Wang WS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Sep; 58(3):209–12
Skin metastases: an unusual presenting sign of gastric carcinoma. Kostandy G, et al. **J Clin Gastroenterol** 1996 Oct;23(3):236–8
A case of bone marrow recurrence from gastric carcinoma after a nine-year disease-free interval. Noda N, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):472–5
Enlarged extraocular muscles from metastatic signet ring carcinoma. Loes L, et al. **Ophthalmic Surg Lasers** 1996 Jul; 27(7):632–5
[Dens axis fracture, spinal pain and hematemesis] Rexroth G, et al. **Internist (Berl)** 1997 Feb;38(2):160–4 **(Ger)**
[Atypical metastasis of stomach carcinoma] Friedrich T, et al. **Zentralbl Chir** 1997;122(2):117–21 (Eng. Abstr.) **(Ger)**
[Metastatic linitis plastica of the bladder] Signori GB, et al. **Arch Ital Urol Androl** 1997 Feb;69(1):69–72 (18 ref.) (Eng. Abstr.) **(Ita)**
[Bladder metastasis of lung adenocarcinoma] Martín-Marquina Aspiunza A, et al. **Actas Urol Esp** 1997 Apr;21(4):406–8 (6 ref.) (Eng. Abstr.) **(Spa)**

SECRETION

[Mucous-secreting breast cancer] Frank GA, et al. **Arkh Patol** 1997 Jul–Aug;59(4):46–9 (Eng. Abstr.) **(Rus)**

SURGERY

Primary signet-ring cell carcinoma of the colon and rectum. Anthony T, et al. **Ann Surg Oncol** 1996 Jul;3(4):344–8

THERAPY

Peritoneal carcinomatosis with urachal signet-cell adenocarcinoma. Loggie BW, et al. **Urology** 1997 Sep; 50(3):446–8

VIROLOGY

Epstein-Barr virus in gastric carcinoma in Suzhou, China and Osaka, Japan: association with clinico-pathologic factors and HLA-subtype. Qiu K, et al. **Int J Cancer** 1997 Apr 10;71(2):155–8

CARCINOMA, SKIN APPENDAGE

PATHOLOGY

Cutaneous adnexal carcinoma arising within a solitary cylindroma-spiradenoma. Biernat W, et al. **Am J Dermatopathol** 1996 Feb;18(1):77–82
Microcystic adnexal carcinoma with extensive sebaceous differentiation. Pujol RM, et al. **Am J Dermatopathol** 1997 Aug;19(4):358–62
Cutaneous adnexal neoplasms in biopsy specimens processed in the Department of Pathology, University of Malaya. Jayalakshmi P, et al. **Ann Acad Med Singapore** 1996 Jul; 25(4):522–5
Microcystic adnexal carcinoma. Sabhikhi AK, et al. **Int J Dermatol** 1997 Feb;36(2):134–6
Microcystic adnexal carcinoma. Kirkland PM, et al. **J Laryngol Otol** 1997 Jul;111(7):674–5 (5 ref.)
Sclerosing sweat duct carcinoma in the peri-anal skin: a case report. Murata S, et al. **Jpn J Clin Oncol** 1997 Jun; 27(3):197–9

CARCINOMA, SMALL CELL

see related
CARCINOMA, NON-SMALL-CELL LUNG

Extrapulmonary small cell gastric carcinoma. A case report and review of the literature. O'Byrne KJ, et al. **Acta Oncol** 1997;36(1):78–80
Nonconstitutive expression of the gastrin-releasing peptide autocrine growth system in human small cell lung carcinoma NCI-H345 cells. Aguayo SM, et al. **Cell Growth Differ** 1996 May;7(5):563–72
Adjuvant therapy for stage I and II non-small cell lung cancer. Dorr VJ, et al. **Hematol Oncol Clin North Am** 1997 Apr;11(2):267–78 (39 ref.)
Small cell carcinoma of the pleura. A case report. Schinkewitch P, et al. **Lung Cancer** 1996 Dec;16(1):87–94
NCCN Small-Cell Lung Cancer Practice Guidelines. The National Comprehensive Cancer Network. Demetri G, et al. **Oncology (Huntingt)** 1996 Nov;10(11 Suppl):179–94
Small cell carcinoma of the lung: an "updated" overview. Martin VR, et al. **Semin Oncol Nurs** 1996 Nov; 12(4):295–303 (69 ref.)
[Myasthenia gravis as paraneoplastic syndrome in small cell tumor of the bladder] Dominguez Molinero JF, et al. **Actas Urol Esp** 1997 Mar;21(3):268–71 (Eng. Abstr.) **(Spa)**
[Small cell carcinoma of the pancreas (letter)] Abínzano Guillén ML, et al. **Gastroenterol Hepatol** 1997 Jan;20(1):43 **(Spa)**

BLOOD

Pretreatment prognostic factors for survival in small-cell lung cancer: a new prognostic index and validation of three known prognostic indices on 341 patients. Maestu I, et al. **Ann Oncol** 1997 Jun;8(6):547–53
Effects of anthracyclin-based chemotherapy on total plasma

antioxidant capacity in small cell lung cancer patients. Erhola M, et al. **Free Radic Biol Med** 1996;21(3):383–90

Measurement of serum p53 protein in patients with small cell lung cancer and results of its clinicopathological evaluation. Segawa Y, et al. **Lung Cancer** 1997 Mar; 16(2–3):229–38

Serum hepatocyte growth factor/scatter factor levels in small cell lung cancer patients. Takigawa N, et al. **Lung Cancer** 1997 Jul;17(2–3):211–8

Prognostic significance of plasma D–dimer levels in patients with lung cancer. Taguchi O, et al. **Thorax** 1997 Jun; 52(6):563–5

[Case of ectopic ACTH–producing small cell carcinoma of the lung: a reduction in tumor size after chemotherapy in spite of a marked rise in the plasma ACTH level] Yoshino K, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10; 86(4):684–6 **(Jpn)**

CHEMISTRY

Expression of cell adhesion molecules in lung cancer cell lines. Horn S, et al. **Exp Toxicol Pathol** 1996 Nov; 48(6):535–40

Small–cell carcinoma of the endometrium: an immunohistochemical and ultrastructural analysis. Tsujioka H, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):9–16

Expression of bcl–2—protein in small cell lung cancer. Kaiser U, et al. **Lung Cancer** 1996 Aug;15(1):31–40

Cancer–associated retinopathy syndrome: a case of small cell lung cancer expressing recoverin immunoreactivity. Matsubara S, et al. **Lung Cancer** 1996 Jun;14(2–3):265–71

Bcl–2 oncoprotein expression is increased especially in the portion of small cell carcinoma within the combined type of small cell lung cancer. Higashiyama M, et al. **Tumour Biol** 1996;17(6):341–4

[Analysis of nuclear matrix protein in human lung cancer cells] Yamazaki H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):401–2 **(Jpn)**

CLASSIFICATION

Terminology of endocrine tumors of the uterine cervix: results of a workshop sponsored by the College of American Pathologists and the National Cancer Institute. Albores–Saavedra J, et al. **Arch Pathol Lab Med** 1997 Jan; 121(1):34–9 (32 ref.)

COMPLICATIONS

Combined acute aortic thrombosis and metastatic spinal cord compression causing paraplegia in a patient with small–cell lung carcinoma (SCLC) [letter] Mermershtain W, et al. **Ann Oncol** 1996 Mar;7(3):321–2

Small cell carcinoma of the cervix of neuroendocrine origin causing obstructed labour. Perrin L, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):85–7

Anaemia of lung cancer is due to impaired erythroid marrow response to erythropoietin stimulation as well as relative inadequacy of erythropoietin production. Dowlati A, et al. **Br J Haematol** 1997 May;97(2):297–9

Obstructive atelectasis in patients with small cell lung cancer. Incidence and response to treatment. Vaaler AK, et al. **Chest** 1997 Jan;111(1):115–20

Paraneoplastic syndromes associated with small cell lung cancer. Marchioli CC, et al. **Chest Surg Clin N Am** 1997 Feb;7(1):65–80 (99 ref.)

Neuropathic arthropathy caused by paraneoplastic sensory neuropathy. A case report. Aoshima H, et al. **Clin Orthop** 1997 Jun;(339):185–9

Paraneoplastic subacute cutaneous lupus erythematosus: report of a case associated with cancer of the lung. Brenner S, et al. **Dermatology** 1997;194(2):172–4 (12 ref.)

Unusual retinal pigment epitheliopathy and choroidopathy in carcinomatosis: a rare case of cancer–associated retinopathy. Brink H, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jan;235(1):59–61

Small cell carcinoma of the vagina causing Cushing's syndrome by ectopic production and secretion of ACTH: a case report. Colleran KM, et al. **Gynecol Oncol** 1997 Jun; 65(3):526–9

Respiratory distress, weakness, and electrolyte abnormalities [published erratum appears in Hosp Pract (Off Ed) 1997 Feb 15;32(2):following 32] Christopher K, et al. **Hosp Pract (Off Ed)** 1996 Dec 15;31(12):20–2

Superior vena cava obstruction in small–cell lung cancer. Chan RH, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):513–20

Progressive systemic sclerosis associated with primary small cell carcinoma of the stomach. Shikuwa S, et al. **J Gastroenterol** 1997 Aug;32(4):538–42 (14 ref.)

Worsening psoriasis after treatment with G–CSF in a patient with small–cell lung cancer [letter] Feliu J, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1315–6

Cancer–associated retinopathy syndrome: a case of small cell lung cancer expressing recoverin immunoreactivity. Matsubara S, et al. **Lung Cancer** 1996 Jun;14(2–3):265–71

Lung cancer–induced blindness. Thirkill CE. **Lung Cancer** 1996 Jun;14(2–3):253–64 (79 ref.)

A 56–year–old man with progressive dysphagia, dysarthria and ataxia. Wolfsthal SD, et al. **Md Med J** 1996 Nov; 45(11):933–7

Elevated progastrin–releasing peptide(31–98) concentrations in pleural effusions due to small–cell lung carcinoma. Shijubo N, et al. **Respiration** 1996;63(2):106–10

[Paraneoplastic opsoclonus] Nielsen HB, et al. **Ugeskr Laeger** 1997 Mar 17;159(12):1774–5 (Eng. Abstr.) **(Dan)**

[Inappropriate antidiuretic hormone secretion disclosing a second primary lung cancer 5 years after complete remission of a small cell lung carcinoma] Soria JC, et al. **Bull Cancer** 1996 Aug;83(8):605–8 (Eng. Abstr.) **(Fre)**

[Cushing syndrome and small cell carcinoma. Three case reports] de Lamberterie G, et al. **Rev Mal Respir** 1997 Apr; 14(2):145–7 (Eng. Abstr.) **(Fre)**

[Clinical case of the month> Apropos of a case of SIADH of paraneoplastic origin and diagnosed in the psychiatry department] Pirard F, et al. **Rev Med Liege** 1996 Aug; 51(8):500–2 **(Fre)**

[50–year–old patient with rapid ataxia onset, generalized paresthesia and myoclonus] Toepfer M, et al. **Internist (Berl)** 1997 Apr;38(4):355–60 **(Ger)**

[Small–cell lung cancer and subacute sensory neuropathy in a patient positive for the anti–Hu antigen] Okishio K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul; 34(7):816–21 (Eng. Abstr.) **(Jpn)**

[Cushing's syndrome due to small cell lung cancer with ectopic production of adrenocorticotropic and parathyroid hormone] Sato S, et al. **Nippon Ronen Igakkai Zasshi** 1997 Mar;34(3):215–20 (Eng. Abstr.) **(Jpn)**

[Coronary artery vasospasm as a cause of chest pain in a patient with small cell lung cancer] Borowiec B, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 2:228–32 (Eng. Abstr.) **(Pol)**

[Dermatomyositis and small cell tumor of the kidney] Benages Pamies J, et al. **Actas Urol Esp** 1997 Jan; 21(1):67–70 (8 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Malignant melanoma: an uncommon cause of small round cell malignancy in childhood [letter] Chong SM, et al. **Acta Cytol** 1997 Mar–Apr;41(2):609–10

Comparison of the sensitivity of sputum and brush cytology in the diagnosis of lung carcinomas. Sing A, et al. **Acta Cytol** 1997 Mar–Apr;41(2):399–408 (67 ref.)

Diagnostic features on images in primary small cell carcinoma of the pancreas. Namieno T, et al. **Am J Gastroenterol** 1997 Feb;92(2):319–22 (22 ref.)

Cytokeratin 20 immunoreactivity distinguishes Merkel cell (primary cutaneous neuroendocrine) carcinomas and salivary gland small cell carcinomas from small cell carcinomas of various sites. Chan JK, et al. **Am J Surg Pathol** 1997 Feb;21(2):226–34

Pretreatment prognostic factors for survival in small–cell lung cancer: a new prognostic index and validation of three known prognostic indices on 341 patients. Maestu I, et al. **Ann Oncol** 1997 Jun;8(6):547–53

Soluble and cell–associated transferrin receptor in lung cancer. Dowlati A, et al. **Br J Cancer** 1997;75(12):1802–6

Validation of an algorithm able to differentiate small–cell lung cancer (SCLC) from non–small–cell lung cancer (NSCLC) patients by means of a tumour marker panel: analysis of the errors. Paone G, et al. **Br J Cancer** 1997; 75(3):448–50

99Tcm tetrofosmin uptake in mediastinal tumours. Ishibashi M, et al. **Br J Radiol** 1996 Dec;69(828):1134–8

Utility of screening procedures for detecting recurrence of disease after complete response in patients with small cell lung carcinoma. Perez EA, et al. **Cancer** 1997 Aug 15; 80(4):676–80

Practical issues in the management of the patient with small cell lung cancer [published erratum appears in Chest Surg Clin N Am 1997 Aug;7(3):447] Govindan R, et al. **Chest Surg Clin N Am** 1997 Feb;7(1):167–81 (74 ref.)

Differential diagnosis of small cell neuroendocrine carcinoma of the lung. Warren WH, et al. **Chest Surg Clin N Am** 1997 Feb;7(1):49–63 (45 ref.)

Magnetic resonance imaging of intramedullary spinal cord metastases. Markus JB. **Clin Imaging** 1996 Oct–Dec; 20(4):238–42

A patient with seven primary tumors of the upper aerodigestive tract: the process of field cancerization versus distant monoclonal expansion [see comments] Cense HA, et al. **Dis Esophagus** 1997 Apr;10(2):139–42. Comment in: Dis Esophagus 1997 Apr;10(2):143–4.

Detection of bone marrow metastases in small cell lung cancer. Comparison of magnetic resonance imaging with standard methods. Hochstenbag MM, et al. **Eur J Cancer** 1996 May;32A(5):779–82

Small cell carcinoma of esophagus. Vaideeswar P, et al. **Indian J Gastroenterol** 1996 Jul;15(3):108

Immunoassay of neuron–specific enolase (NSE) and serum fragments of cytokeratin 19 (CYFRA 21.1) as tumor markers in small cell lung cancer: clinical evaluation and biological hypothesis. Giovanella L, et al. **Int J Biol Markers** 1997 Jan–Mar;12(1):22–6

Small cell carcinoma of the kidney: case report. Kitamura M, et al. **Int J Urol** 1997 Jul;4(4):422–4 (13 ref.)

Anti–Hu antibody in a patient with Lambert–Eaton myasthenic syndrome and early detection of small cell lung cancer. Tomiyasu K, et al. **Intern Med** 1995 Nov; 34(11):1082–5

Paraneoplastic intestinal pseudo–obstruction, mononeuritis multiplex, and sensory neuropathy/neuronopathy. Simpson DA, et al. **J Am Osteopath Assoc** 1996 Feb;96(2):125–8

Small–cell carcinoma of the lung manifesting as acute hepatic failure [see comments] McGuire BM, et al. **Mayo Clin Proc** 1997 Feb;72(2):133–9 (43 ref.). Comment in: Mayo Clin Proc 1997 Aug;72(8):791.

Small cell carcinoma of the prostate: a case report and review of the literature. Aygun C. **Md Med J** 1997 Aug;46(7):353–6 (28 ref.)

Flow cytometric analysis of tumor DNA profile related to response to treatment and survival in small–cell lung cancer. Virén MM, et al. **Med Oncol** 1997 Mar;14(1):35–8

Images in clinical medicine. Intramedullary spinal cord metastases. Ijaz T, et al. **N Engl J Med** 1997 Mar 13; 336(11):768

The diagnosis and management of small (< or = 3 cm) renal neoplasms: a commentary. Wills JS. **Semin Ultrasound CT MR** 1997 Apr;18(2):75–81 (55 ref.)

Evaluation of Cyfra 21–1 as a marker for lung cancer. Najemnik C, et al. **Wien Klin Wochenschr** 1996; 108(15):467–72

[A case of small cell carcinoma (oat–cell type) of the esophagus] Sano T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):955–8 (Eng. Abstr.) **(Jpn)**

[Small–cell lung cancer and subacute sensory neuropathy in a patient positive for the anti–Hu antigen] Okishio K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul; 34(7):816–21 (Eng. Abstr.) **(Jpn)**

[The value of diagnostic methods used to assess the response to treatment in patients with limited small cell lung carcinoma] Wiatr E, et al. **Pneumonol Alergol Pol** 1997; 65(5–6):311–7 (Eng. Abstr.) **(Pol)**

[Clinical significance of tumor markers CYFRA 21–1 and neuron–specific enolase in lung cancer] Kushlinskiĭ NE, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):98–100 **(Rus)**

[Paraneoplastic myelopathy, probably necrotizing myelopathy: apropos of a case associated with anaplastic small cell carcinoma] Vázquez Almuiña J, et al. **An Med Interna** 1995 Sep;12(9):445–6 (Eng. Abstr.) **(Spa)**

[Neuroendocrine carcinoma of the ampullar region with oat–cell histological features and adenocarcinoma] Fresno MF, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):60–4 (24 ref.) (Eng. Abstr.) **(Spa)**

[Obstructive jaundice as a presentation form of bronchogenic small cell carcinoma] Martín Parra JI, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):299–301 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Growth inhibitory effects of antifolates against an adriamycin–resistant human small cell lung cancer cell line. Matsuo K, et al. **Acta Med Okayama** 1997 Jun;51(3):121–7

Phase I study of chemotherapy with carboplatin, epirubicin, and escalating dose of VP–16 with G–CSF support in extensive small cell lung cancer. Gridelli C, et al. **Am J Clin Oncol** 1996 Dec;19(6):589–91

Phase I trial of etoposide, carboplatin, and GM–CSF in extensive small–cell lung cancer: a Cancer and Leukemia Group B study (CALGB 8832). Luikart SD, et al. **Am J Clin Oncol** 1997 Feb;20(1):24–30

Resolution of superior vena cava obstruction in small cell lung cancer patients treated with chemotherapy. Tan EH, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):812–5

Phase I study of paclitaxel and oral etoposide in previously untreated non–small–cell and extensive small–cell lung cancer. Boyer MJ, et al. **Ann Oncol** 1997 May;8(5):485–9

Dose–intense therapy with etoposide, ifosfamide, cisplatin, and epirubicin (VIP–E) in 100 consecutive patients with limited– and extensive–disease small–cell lung cancer. Fetscher S, et al. **Ann Oncol** 1997 Jan;8(1):49–56

Small–cell carcinoma of the seminal vesicle responding to chemotherapy [letter] Hoppin EC, et al. **Ann Oncol** 1997 May;8(5):503

Superiority of cisplatin or carboplatin in combination with teniposide and vincristine in the induction chemotherapy of small–cell lung cancer. A randomized trial with 5 years follow up. Lassen U, et al. **Ann Oncol** 1996 Apr;7(4):365–71

Dose intensification of chemotherapy and the role of granulocyte colony stimulating factor and granulocyte macrophage colony stimulating factor in small cell lung cancer. Tjan–Heijnen VC, et al. **Anticancer Drugs** 1997 Jul; 8(6):549–64 (125 ref.)

A phase II study of VM–26 plus lonidamine in pretreated small cell lung cancer. Gridelli C, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1277–9

Effects of the new selective protein kinase C inhibitor 4'–N–benzoyl staurosporine on cell cycle distribution and growth inhibition in human small cell lung cancer cells. Ikegami Y, et al. **Arzneimittelforschung** 1996 Feb; 46(2):201–4

Poor recruitment to lung cancer trials [letter] Penson RT, et al. **BMJ** 1997 Mar 29;314(7085):974–5

Sequential high–dose ICE chemotherapy with circulating progenitor cells (CPC) in small cell lung cancer: an EBMT study. Perey L, et al. **Bone Marrow Transplant** 1996 Sep; 18 Suppl 1:S40–3

Treatment intensification which includes high–dose induction improves survival of lung carcinoma patients treated by high–dose chemotherapy with hematopoietic progenitor cell rescue but does not prevent high rate of relapses. Tomeczko J, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S44–7

Phase I study of simultaneous dose escalation and schedule

acceleration of cyclophosphamide–doxorubicin–etoposide using granulocyte colony-stimulating factor with or without antimicrobial prophylaxis in patients with small-cell lung cancer. Ardizzoni A, et al. **Br J Cancer** 1996 Oct;74(7):1141–7

Initial prognostic factors in small-cell lung cancer patients predicting quality of life during chemotherapy. Swiss Group for Clinical Cancer Research (SAKK). Bernhard J, et al. **Br J Cancer** 1996 Nov;74(10):1660–7

CODE chemotherapy with and without granulocyte colony-stimulating factor in small-cell lung cancer. Fukuoka M, et al. **Br J Cancer** 1997;75(2):306–9

Outpatient treatment with epirubicin and oral etoposide in patients with small-cell lung cancer. Gogas H, et al. **Br J Cancer** 1997;76(5):639–42

Mechanism of hyperthermic potentiation of cisplatin action in cisplatin-sensitive and -resistant tumour cells. Hettinga JV, et al. **Br J Cancer** 1997;75(12):1735–43

In vitro cross-resistance and collateral sensitivity in seven resistant small-cell lung cancer cell lines: preclinical identification of suitable drug partners to taxotere, taxol, topotecan and gemcitabin. Jensen PB, et al. **Br J Cancer** 1997;75(6):869–77

Phase II trial of raltitrexed ('Tomudex') in advanced small-cell lung cancer. Woll PJ, et al. **Br J Cancer** 1997; 76(2):264–5

Teniposide (VM-26) as a single drug treatment for patients with extensive small cell lung carcinoma: a Phase II study of the Southwest Oncology Group. Grozea PN, et al. **Cancer** 1997 Sep 15;80(6):1029–33

Toremifene concentration and multidrug resistance in lung tumors. Liippo K, et al. **Cancer Chemother Pharmacol** 1997; 39(3):212–6

Importance of dose and dose intensity in the treatment of small-cell lung cancer. Murray N. **Cancer Chemother Pharmacol** 1997;40 Suppl:S58–63 (18 ref.)

A novel quinoline derivative, MS-209, overcomes drug resistance of human lung cancer cells expressing the multidrug resistance-associated protein (MRP) gene. Narasaki F, et al. **Cancer Chemother Pharmacol** 1997; 40(5):425–32

Dose-intensive chemotherapy in extensive-stage small-cell lung cancer. Negoro S, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S70–3

Chemotherapy for small-cell lung cancer: more is not better. Saka H, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S107–9 (21 ref.)

[D-Arg1,D-Trp5,7,9,Leu11]substance P: a novel potent inhibitor of signal transduction and growth in vitro and in vivo in small cell lung cancer cells. Seckl MJ, et al. **Cancer Res** 1997 Jan 1;57(1):51–4

A pilot phase 2 study of surgical treatment after induction chemotherapy for resectable stage I to IIIA small cell lung cancer. Fujimori K, et al. **Chest** 1997 Apr;111(4):1089–93

The role of chemotherapy in the treatment of small cell lung cancer. Shepherd FA. **Chest Surg Clin N Am** 1997 Feb; 7(1):113–33 (82 ref.)

Standard versus alternating non-cross-resistant chemotherapy in extensive small cell lung cancer: an EORTC Phase III trial. Postmus PE, et al. **Eur J Cancer** 1996 Aug;32A(9):1498–503

Effects of anthracyclin-based chemotherapy on total plasma antioxidant capacity in small cell lung cancer patients. Erhola M, et al. **Free Radic Biol Med** 1996;21(3):383–90

Preclinical studies on the broad-spectrum neuropeptide growth factor antagonist G. Jones DA, et al. **Gen Pharmacol** 1997 Feb;28(2):183–9 (22 ref.)

Advanced-stage small cell carcinoma of the ovary in pregnancy: long-term survival after surgical debulking and multiagent chemotherapy. Tewari K, et al. **Gynecol Oncol** 1997 Sep;66(3):531–4

DX-8951f, a water-soluble camptothecin analog, exhibits potent antitumor activity against a human lung cancer cell line and its SN-38-resistant variant. Joto N, et al. **Int J Cancer** 1997 Aug 7;72(4):680–6

A phase II trial of intravenous vinorelbine in previously untreated patients with extensive small cell lung cancer, a Southwest Oncology Group study. Higano CS, et al. **Invest New Drugs** 1997;15(2):153–6

Phase II study of docetaxel (taxotere) in patients with previously untreated extensive small cell lung cancer. Latreille J, et al. **Invest New Drugs** 1996;13(4):343–5

Correlation of in vitro drug sensitivity testing results with response to chemotherapy and survival: comparison of non-small cell lung cancer and small cell lung cancer. Shaw GL, et al. **J Cell Biochem Suppl** 1996;24:173–85

Ifosfamide, cisplatin and etoposide (ICE) combined chemotherapy with recombinant human granulocyte colony-stimulating factor support in small cell lung cancer. Hastürk S, et al. **J Chemother** 1997 Feb;9(1):66–71

Topotecan, a new active drug in the second-line treatment of small-cell lung cancer: a phase II study in patients with refractory and sensitive disease. The European Organization for Research and Treatment of Cancer Early Clinical Studies Group and New Drug Development Office, and the Lung Cancer Cooperative Group. Ardizzoni A, et al. **J Clin Oncol** 1997 May;15(5):2090–6

Paclitaxel by 96-hour continuous infusion in combination with cisplatin: a phase I trial in patients with advanced lung cancer. Georgiadis MS, et al. **J Clin Oncol** 1997 Feb; 15(2):735–43

Initial versus delayed accelerated hyperfractionated radiation therapy and concurrent chemotherapy in limited small-cell lung cancer: a randomized study. Jeremic B, et al. **J Clin Oncol** 1997 Mar;15(3):893–900

Dose-intensive weekly chemotherapy for treatment of relapsed small-cell lung cancer. Kubota K, et al. **J Clin Oncol** 1997 Jan;15(1):292–6

Treatment of patients with small-cell lung cancer refractory to etoposide and cisplatin with the topoisomerase I poison topotecan. Perez-Soler R, et al. **J Clin Oncol** 1996 Oct; 14(10):2785–90

Dose-intensity of a four-drug chemotherapy regimen with or without recombinant human granulocyte-macrophage colony-stimulating factor in extensive-stage small-cell lung cancer: a multicenter randomized phase III study. Pujol JL, et al. **J Clin Oncol** 1997 May;15(5):2082–9

Randomized study of initial versus late chest irradiation combined with chemotherapy in limited-stage small-cell lung cancer. Aarhus Lung Cancer Group [see comments] Work E, et al. **J Clin Oncol** 1997 Sep;15(9):3030–7. Comment in: J Clin Oncol 1997 Sep;15(9):3027–9.

G-CSF for the prophylaxis of neutropenic fever in patients with small cell lung cancer receiving myelosuppressive antineoplastic chemotherapy: meta-analysis and pharmacoeconomic evaluation. Messori A, et al. **J Clin Pharm Ther** 1996 Apr;21(2):57–63

Five-day oral etoposide treatment for advanced small-cell lung cancer: randomized comparison with intravenous chemotherapy. Souhami RL, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):577–80

Vasospastic angina after chemotherapy by with carboplatin and etoposide in a patient with lung cancer. Yano S, et al. **Jpn Circ J** 1996 Mar;60(3):185–8

Enhancement of tumor radio-response by irinotecan in human lung tumor xenografts. Tamura K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):218–23

Dose-escalation study of oral etoposide and carboplatin in patients with advanced lung cancer. Atagi S, et al. **Jpn J Clin Oncol** 1996 Oct;26(5):316–21

Phase II study of ifosfamide and etoposide chemotherapy for extensive-disease small-cell lung cancer. Chen YM, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):76–9

Second-line chemotherapy for relapsed small cell lung cancer. Ebi N, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):166–9

Small cell carcinoma of the esophagus: a case report. Ohmura Y, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):95–100 (25 ref.)

Brain relapses in chemotherapy-treated small cell lung cancer: a retrospective review of two time-dose regimens of therapeutic brain irradiation. Bach F, et al. **Lung Cancer** 1996 Sep;15(2):171–81

A phase I/II trial of etoposide and cisplatin in extensive small cell lung cancer: a cancer and leukemia group B study. Mitchell EP, et al. **Lung Cancer** 1996 Sep;15(2):215–23

Treatment of small cell lung cancer: the state of the art. Murray N. **Lung Cancer** 1997 Jun;17 Suppl 1:S75–89 (42 ref.)

Phase I/II study of combination chemotherapy with cisplatin, carboplatin and etoposide in small cell lung cancer. Sakurai M, et al. **Lung Cancer** 1996 Sep;15(2):225–32

The limits of chemotherapy dose intensification using granulocyte colony stimulating factor alone in extensive small cell lung cancer. Trillet-Lenoir V, et al. **Lung Cancer** 1996 Jun;14(2–3):331–41

Tallimustine is inactive in patients with previously treated small cell lung cancer. A phase II trial of the National Cancer Institute of Canada Clinical Trials Group [published erratum appears in Lung Cancer 1997 May;17(1):179] Viallet J, et al. **Lung Cancer** 1996 Nov;15(3):367–73

Interferon alpha-2a and combined chemotherapy as first line treatment in SCLC patients: a randomized trial. Zarogoulidis K, et al. **Lung Cancer** 1996 Sep;15(2):197–205

Tolerability and efficacy of GM-CSF [Leucomax] in patients with small cell lung cancer treated with intensive chemotherapy. Walewski J, et al. **Med Oncol** 1996 Dec; 13(4):199–205

Dose intensity phase I/II trial with carboplatin, ifosfamide, etoposide and vincristine combined with filgrastim in patients with small-cell lung cancer. Hanauske AR, et al. **Oncology** 1997 Sep–Oct;54(5):363–70

Topotecan demonstrates significant activity in recurrent small-cell lung cancer [news] **Oncology (Huntingt)** 1996 Jan;10(1):111

Topotecan demonstrates significant activity in small-cell lung cancer [news] **Oncology (Huntingt)** 1996 Mar;10(3):422–3

BW 1023U90: a new GRP receptor antagonist for small-cell lung cancer cells. Moody TW, et al. **Peptides** 1996; 17(8):1337–43

Chemotherapy for advanced lung cancer. When to expect a response. Midthun DE, et al. **Postgrad Med** 1997 Mar; 101(3):187–8, 191–2, 194 passim (20 ref.)

The Fox Chase Cancer Center and Free University Hospital Investigators' Workshop and Consensus Conference on Paclitaxel. Part 1: Lung Cancer. Puerto Rico, March 12–16, 1997. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–1–S12–162; quiz S12–163–S12–173 (0 ref.)

A randomized study of etoposide and carboplatin with or without paclitaxel in the treatment of small cell lung cancer. Birch R, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–135–S12–137

A phase I study of cisplatin, etoposide, and paclitaxel in small cell lung cancer. Bunn PA Jr, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–144–S12–148

The emerging role of gemcitabine in lung cancer: part I [editorial] Bunn PA Jr. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7–1

Overview of chemotherapy for small cell lung cancer. Bunn PA Jr, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 7):S7–69–S7–74 (44 ref.)

Phase I study of cisplatin, etoposide, and paclitaxel in patients with extensive-stage small cell lung cancer: a University of Colorado Cancer Center study. Bunn PA Jr, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):11–5

Current therapy of small cell lung cancer. Bunn PA Jr. **Semin Oncol** 1996 Dec;23(6 Suppl 16):1–4

The North American experience with paclitaxel combined with cisplatin or carboplatin in lung cancer. Bunn PA Jr. **Semin Oncol** 1996 Dec;23(6 Suppl 16):18–25 (34 ref.)

Combination paclitaxel and platinum in the treatment of lung cancer: US experience. Bunn PA Jr. **Semin Oncol** 1996 Dec;23(6 Suppl 15):9–15 (29 ref.)

Paclitaxel and carboplatin in early phase studies: Roswell Park Cancer Institute experience in the subset of patients with lung cancer. Creaven PJ, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–138–S12–143

A pharmacoeconomic evaluation of cisplatin in combination with either etoposide or etoposide phosphate in small cell lung cancer. Doyle JJ, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 13):51–60

Single-agent paclitaxel in the treatment of small cell lung cancer. Ettinger DS. **Semin Oncol** 1996 Dec;23(6 Suppl 16):16–7

Paclitaxel, carboplatin, and oral etoposide: a phase II trial in limited-stage small cell lung cancer. Gatzemeier U, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–149–S12–152

Paclitaxel, carboplatin, and oral etoposide in the treatment of small cell lung cancer. Greco FA, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 16):7–10

Clinical studies with etoposide phosphate. Greco FA, et al. **Semin Oncol** 1996 Dec;23(6 Suppl 13):45–50

Small cell lung cancer in the elderly patient. Johnson DH. **Semin Oncol** 1997 Aug;24(4):484–91 (65 ref.)

A phase II study evaluating the efficacy of carboplatin, etoposide, and paclitaxel with granulocyte colony-stimulating factor in patients with stage IIIB and IV non-small cell lung cancer and extensive small cell lung cancer. Neill HB, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–130–S12–134

Etoposide phosphate infusion with therapeutic drug monitoring in combination with carboplatin dosed by area under the curve: a cancer research campaign phase I/II committee study. Porter D, et al. **Semin Oncol** 1996 Dec; 23(6 Suppl 13):34–44

Gemcitabine and etoposide in small cell lung cancer: phase I and II trials. Rassmann I, et al. **Semin Oncol** 1997 Apr; 24(2 Suppl 7):S7–75–S7–78

Ifosfamide/carboplatin/etoposide/paclitaxel in advanced lung cancer: update and preliminary survival analysis. Strauss GM, et al. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–73–S12–80

Comparison of carboplatin/etoposide/vincristine with cisplatin/etoposide as combination chemotherapy for small cell lung cancer. Kumagai M, et al. **Tokai J Exp Clin Med** 1995 Dec;20(4–6):209–14

[A study on treatment of lung cancer by combined therapy of traditional Chinese medicine and chemotherapy] Li JH. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):136–8 (Eng. Abstr.) **(Chi)**

[Small-cell lung cancer: chemotherapy strategy] Lebeau B. **Presse Med** 1996 Nov 16;25(35):1705–8 (31 ref.) (Eng. Abstr.) **(Fre)**

[Chemotherapy in elderly patients with bronchogenic cancers] Souquet PJ, et al. **Rev Mal Respir** 1996; 13(4):327–33 (55 ref.) (Eng. Abstr.) **(Fre)**

[Treatment of broncho-pulmonary cancer using carboplatin/etoposide: survival analysis] Skaventzos I, et al. **Rev Med Liege** 1996 Nov;51(11):718–20 **(Fre)**

[Topotecan—a new principle of effectiveness in oncology. 4th Salzburg Symposium on Quality of Life. 15–17 December 1995] **Geburtshilfe Frauenheilkd** 1996 Jun;56(6 Suppl):1–6 **(Ger)**

[Taxol in bronchial carcinoma] Gatzemeier U. **Med Klin** 1996 Dec 15;91 Suppl 2:1–6 (41 ref.) **(Ger)**

[A case of small cell lung carcinoma associated with pneumoconiosis who responded well to the over twenty chemotherapy treatments, resulting in prolonged survival] Sassa K, et al. **Gan To Kagaku Ryoho** 1997 Mar; 24(5):609–12 (Eng. Abstr.) **(Jpn)**

[Etoposide in the treatment of small-cell lung cancer] Ueoka H. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1920–4 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Etoposide-induced pneumonitis] Hatakeyama S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb;35(2):210–4 (Eng. Abstr.) **(Jpn)**

[Chemotherapy for small-cell lung cancer] Ueoka H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:87–91 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Chemotherapy versus chemoradiotherapy in patients with limited small cell lung carcinoma] Byszewska D, et al. **Pneumonol Alergol Pol** 1997;65(5–6):318–25 (Eng. Abstr.) **(Pol)**

[Effects, possibilities and limits. Cytostatic therapy of small cell and non-small cell lung cancer] Bergman B. **Lakartidningen** 1997 Apr 30;94(18):1702, 1707–10 (17 ref.) **(Swe)**

CARCINOMA, SMALL CELL

ENZYMOLOGY

Antitumor effects of butyrolactone I, a selective cdc2 kinase inhibitor, on human lung cancer cell lines. Nishio K, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3387-95

Comparative analysis of expression of the proprotein convertases furin, PACE4, PC1 and PC2 in human lung tumours. Mbikay M, et al. **Br J Cancer** 1997;75(10):1509-14

Galanin, neurotensin, and phorbol esters rapidly stimulate activation of mitogen-activated protein kinase in small cell lung cancer cells. Seufferlein T, et al. **Cancer Res** 1996 Dec 15;56(24):5758-64

Inhibition of protein synthesis in small cell lung cancer cells induced by the diphtheria toxin-related fusion protein DAB389 GRP. vanderSpek JC, et al. **Cancer Res** 1997 Jan 15;57(2):290-4

Characterization of the protein kinase C signal transduction pathway in cisplatin-sensitive and -resistant human small cell lung carcinoma cells. Basu A, et al. **Cell Growth Differ** 1996 Nov;7(11):1507-12

Properties of classic protein kinase C in human small cell lung carcinoma NCI-H345 cells. Jones CL, et al. **Cell Growth Differ** 1995 Dec;6(12):1627-34

Carboxypeptidase M. Variable expression in normal human lung and inactivation in lung cancer. Cohen AJ, et al. **Chest** 1997 Jun;111(6 Suppl):149S

A variant alkaline phosphatase detected in a patient with lung cancer. Miyanaga M, et al. **Enzyme Protein** 1996; 49(5-6):313-20

CMP-NeuAc:(NeuAc alpha 2—>8)n (colominic acid) sialyltransferase activity in rat brain and in tumour cells that express polysialic acid on neural cell adhesion molecules. Easton EW, et al. **Glycoconj J** 1995 Dec; 12(6):829-37

Reduced expression of DNA topoisomerase II confers resistance to etoposide (VP-16) in small cell lung cancer cell lines established from a refractory tumor of a patient and by in vitro selection. Andoh T, et al. **Oncol Res** 1996; 8(6):229-38

Serum neuron-specific enolase as a tumor marker in the diagnosis and follow-up of small-cell lung cancer. Pinson P, et al. **Respiration** 1997;64(1):102-7

Do neuron-specific enolase levels discriminate between small-cell lung cancer and mediastinal tumors? Ebert W, et al. **Tumour Biol** 1996;17(6):362-8

EPIDEMIOLOGY

The increasing incidence of lung adenocarcinoma: reality or artefact? A review of the epidemiology of lung adenocarcinoma. Charloux A, et al. **Int J Epidemiol** 1997 Feb;26(1):14-23 (100 ref.)

Glutathione S-transferase mu polymorphism and susceptibility to lung cancer in the Portuguese population. Moreira A, et al. **Teratog Carcinog Mutagen** 1996; 16(5):269-74

[Improvement in the results of surgical therapy associated with increases in the incidence of small cell lung cancer] Koike T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):313-5 **(Jpn)**

[Lung cancer in the Island of Menorca (1990-1993)] Segui Díaz M, et al. **Gac Sanit** 1996 Jul-Aug;10(55):169-73 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Basic science of small cell lung cancer. Williams CL. **Chest Surg Clin N Am** 1997 Feb;7(1):1-19 (140 ref.)

GENETICS

Multidrug-resistant gene expression in small-cell lung cancer. Savaraj N, et al. **Am J Clin Oncol** 1997 Aug; 20(4):398-403

Detection of p53 gene mutations in cytopathology and biopsy specimens from patients with lung cancer. Murakami I, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):1117-23

The clinical role of MDR1 gene expression in human lung cancer. Oka M, et al. **Anticancer Res** 1997 Jan-Feb; 17(1B):721-4

Two COOH-terminal truncated cytoplasmic forms of topoisomerase II alpha in a VP-16-selected lung cancer cell line result from partial gene deletion and alternative splicing. Yu Q, et al. **Biochemistry** 1997 May 13; 36(19):5868-77

Small-cell lung cancer is characterized by a high incidence of deletions on chromosomes 3p, 4q, 5q, 10q, 13q and 17p. Petersen I, et al. **Br J Cancer** 1997;75(1):79-86

Identification of three distinct tumor suppressor loci on the short arm of chromosome 9 in small cell lung cancer. Kim SK, et al. **Cancer Res** 1997 Feb 1;57(3):400-3

Homozygous deletions of human chromosome 3p in lung tumors. Todd S, et al. **Cancer Res** 1997 Apr 1;57(7):1344-52

Molecular analysis of the FHIT gene at 3p14.2 in lung cancer cell lines. Yanagisawa K, et al. **Cancer Res** 1996 Dec 15; 56(24):5579-82

Macrophage colony-stimulating factor gene transduction into human lung cancer cells differentially regulates metastasis formations in various organ microenvironments of natural killer cell-depleted SCID mice. Yano S, et al. **Cancer Res** 1997 Feb 15;57(4):784-90

Influence of a mutation reducing the catalytic activity of the cytochrome P450 CYP2D6 on lung cancer susceptibility. Legrand M, et al. **Carcinogenesis** 1996 Oct; 17(10):2267-9

Infrequent mutations of the transforming growth factor beta-type II receptor gene at chromosome 3p22 in human lung cancers with chromosome 3p deletions. Tani M, et al. **Carcinogenesis** 1997 May;18(5):1119-21

Glutathione S-transferase M1 (GSTM1) and T1 (GSTT1) polymorphisms and lung cancer risk among Northwestern Mediterraneans. To-Figueras J, et al. **Carcinogenesis** 1997 Aug;18(8):1529-33

Induction of apoptosis but not G1 arrest by expression of the wild-type p53 gene in small cell lung carcinoma. Adachi J, et al. **Cell Growth Differ** 1996 Jul;7(7):879-86

Detection of chromosomal aneuploidy by interphase fluorescence in situ hybridization in bronchoscopically gained cells from lung cancer patients. Schenk T, et al. **Chest** 1997 Jun;111(6):1691-6

Neuroendocrine tumors of the lung. Pathology and molecular biology. Vuitch F, et al. **Chest Surg Clin N Am** 1997 Feb; 7(1):21-47 (79 ref.)

Clonality of esophageal carcinomas: genetic and epigenetic events leading to loss of genomic stability [comment] Jankowski JA. **Dis Esophagus** 1997 Apr;10(2):143-4. Comment on: Dis Esophagus 1997 Apr;10(2):139-42.

Breakpoint junction of interstitial homozygous deletion at chromosome 2q33 in a small cell lung carcinoma. Kohno T, et al. **DNA Res** 1996 Dec 31;3(6):421-4

Genetic defects in cancer cells and cancer prone families. Yokota J, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:33-6

Detection of 11q13 amplification as the origin of a homogeneously staining region in small cell lung cancer by chromosome microdissection. Xu J, et al. **Genes Chromosomes Cancer** 1996 Nov;17(3):172-8

A micro-dissection approach for isolation of NotI linking clones from regions frequently deleted in RCC and SCLC. Alimov AA, et al. **Genet Anal** 1997 Mar;14(1):21-3

Identification and mapping of a putative bombesin receptor gene on human chromosome 17q21.3+. Kelavkar U, et al. **Genet Anal** 1996 Oct;13(4):99-103

The human homolog of the rodent immediate early response genes, PC4 and TIS7, resides in the lung cancer tumor suppressor gene region on chromosome 3p21. Latif F, et al. **Hum Genet** 1997 Mar;99(3):334-41

Primary small-cell lung carcinomas and their metastases are characterized by a recurrent pattern of genetic alterations. Schwendel A, et al. **Int J Cancer** 1997 Feb 20;74(1):86-93

HOX genes and cell adhesion molecules in cancers. Alonso Varona A, et al. **Int J Dev Biol** 1996;Suppl 1:309S-310S

MYC family DNA amplification in 126 tumor cell lines from patients with small cell lung cancer. Johnson BE, et al. **J Cell Biochem Suppl** 1996;24:210-7

Expression in human lung cancer cell lines of genes of prohormone processing and the neuroendocrine phenotype. Vos MD, et al. **J Cell Biochem Suppl** 1996;24:257-68

Induction of apoptosis in small-cell lung cancer cells by an antisense oligodeoxynucleotide targeting the Bcl-2 coding sequence [see comments] Ziegler A, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1027-36. Comment in: J Natl Cancer Inst 1997 Jul 16;89(14):988-90.

A nonsense mutation (Arg-196-Term) in exon 6 of the human TP53 gene identified in small cell lung carcinoma. Hayes VM, et al. **Mol Cell Probes** 1996 Oct;10(5):393-5

Mechanism of all-trans-retinoic acid-mediated L-myc gene regulation in small cell lung cancer: Ou X, et al. **Oncogene** 1996 Nov 7;13(9):1893-9

A link between metastasis and resistance to apoptosis of variant small cell lung carcinoma. Shtivelman E. **Oncogene** 1997 May 8;14(18):2167-73

An 80 Kb P1 clone from chromosome 3p21.3 suppresses tumor growth in vivo. Todd MC, et al. **Oncogene** 1996 Dec 5;13(11):2387-96

Frequent inactivation of the transforming growth factor beta type II receptor in small-cell lung carcinoma cells. de Jonge RR, et al. **Oncol Res** 1997;9(2):89-98

Conservation of the Drosophila lateral inhibition pathway in human lung cancer: a hairy-related protein (HES-1) directly represses achaete-scute homolog-1 expression. Chen H, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):5355-60

Loss of the retinoblastoma protein-related p130 protein in small cell lung carcinoma. Helin K, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6933-8

[Cholecystokinin-B/gastrin receptor is a novel molecular probe for human small cell lung cancer] Matsumori Y, et al. **Nippon Rinsho** 1996 Feb;54(2):507-12 (14 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

MR of carcinoma-specific monoclonal antibody conjugated to monocrystalline iron oxide nanoparticles: the potential for noninvasive diagnosis. Remsen LG, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):411-8

Limbic encephalitis and small cell lung cancer. Clinical and immunological features. Alamowitch S, et al. **Brain** 1997 Jun;120 (Pt 6):923-8

Small-cell lung cancer, paraneoplastic cerebellar degeneration and the Lambert-Eaton myasthenic syndrome. Mason WP, et al. **Brain** 1997 Aug;120 (Pt 8):1279-300

Molecular basis for lack of expression of HLA class I antigens in human small-cell lung carcinoma cell lines. Singal DP, et al. **Int J Cancer** 1996 Nov 27;68(5):629-36

Anti-Hu antibodies in patients with small-cell lung cancer: association with complete response to therapy and improved survival. Graus F, et al. **J Clin Oncol** 1997 Aug; 15(8):2866-72

Expression of HuD (a paraneoplastic encephalomyelitis antigen) mRNA in lung cancer. Cho JH, et al. **J Korean Med Sci** 1997 Aug;12(4):305-10

Serum anti-p53 antibodies and prognosis of patients with small-cell lung cancer. Rosenfeld MR, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):381-5

Association of antineural autoantibodies in a patient with paraneoplastic cerebellar syndrome and small cell lung carcinoma [letter] Honnorat J, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):425-6

Paraneoplastic retinopathy: a novel autoantibody reaction associated with small-cell lung carcinoma. Murphy MA, et al. **J Neuroophthalmol** 1997 Jun;17(2):77-83

Anti-MOC-31: a potential addition to the pulmonary adenocarcinoma versus mesothelioma immunohistochemistry panel. Sosolik RC, et al. **Mod Pathol** 1997 Jul;10(7):716-9

Cell surface expression of paraneoplastic encephalomyelitis/sensory neuronopathy-associated Hu antigens in small-cell lung cancers and neuroblastomas. Torà M, et al. **Neurology** 1997 Mar;48(3):735-41

Experimental, cancer-induced retinopathy. Thirkill CE. **Ocul Immunol Inflamm** 1997 Mar;5(1):55-65

METABOLISM

Frequency of expression of prostate-specific antigen mRNA in lung tumors. Zarghami N, et al. **Am J Clin Pathol** 1997 Aug;108(2):184-90

Differential retinoblastoma protein expression in neuroendocrine tumors of the lung. Potential diagnostic implications. Cagle PT, et al. **Am J Pathol** 1997 Feb; 150(2):393-400

Bcl-2 protein expression in lung cancer and close correlation with neuroendocrine differentiation. Jiang SX, et al. **Am J Pathol** 1996 Mar;148(3):837-46

Serum calcitonin in small cell carcinoma of the prostate. Sim SJ, et al. **Ann Clin Lab Sci** 1996 Nov-Dec;26(6):487-95

Expression of the human major vault protein LRP in human lung cancer samples and normal lung tissues. Dingemans AM, et al. **Ann Oncol** 1996 Aug;7(6):625-30

Cholinergic stimulation of human microcytoma cell line H69. Fucile S, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):501-4

Proximal 5'-flanking sequence of the human gamma-glutamylcysteine synthetase heavy subunit gene is involved in cisplatin-induced transcriptional up-regulation in a lung cancer cell line SBC-3. Tomonari A, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):616-21

Expression of a photoreceptor protein, recoverin, as a cancer-associated retinopathy autoantigen in human lung cancer cell lines. Matsubara S, et al. **Br J Cancer** 1996 Nov; 74(9):1419-22

Differential expression of DNA topoisomerase II alpha and -beta in P-gp and MRP-negative VM26, mAMSA and mitoxantrone-resistant sublines of the human SCLC cell line GLC4. Withoff S, et al. **Br J Cancer** 1996 Dec; 74(12):1869-76

Ectopic production and processing of atrial natriuretic peptide in a small cell lung carcinoma cell line and tumor from a patient with hyponatremia. Johnson BE, et al. **Cancer** 1997 Jan 1;79(1):35-44

In vitro effects of a recombinant toxin, mSCF-PE40, targeting c-kit receptors ectopically expressed in small cell lung cancers. Nishida K, et al. **Cancer Lett** 1997 Feb 26; 113(1-2):153-8

Protein kinase C-beta 2 inhibits cycling and decreases c-myc-induced apoptosis in small cell lung cancer cells. Barr LF, et al. **Cell Growth Differ** 1997 Apr;8(4):381-92

Differential expression of the neuroendocrine genes Hel-N1 and HuD in small-cell lung carcinoma: evidence for down-regulation of HuD in the variant phenotype. King PH. **Int J Cancer** 1997 Aug 22;74(4):378-82

Annamycin circumvents resistance mediated by the multidrug resistance-associated protein (MRP) in breast MCF-7 and small-cell lung UMCC-1 cancer cell lines selected for resistance to etoposide. Perez-Soler R, et al. **Int J Cancer** 1997 Mar 28;71(1):35-41

HOX genes and cell adhesion molecules in cancers. Alonso Varona A, et al. **Int J Dev Biol** 1996;Suppl 1:309S-310S

Immunocytochemical expression of tissue specific transcription factor-1 in lung carcinoma. Di Loreto C, et al. **J Clin Pathol** 1997 Jan;50(1):30-2

Regulation of VIP gene expression in general. Human lung cancer cells in particular. Davidson A, et al. **J Mol Neurosci** 1996 Summer;7(2):99-110 (77 ref.)

Localization of small-cell lung cancer xenografts with iodine-125-, indium-111-, and rhenium-188-somatostatin analogs. Hosono M, et al. **Jpn J Cancer Res** 1996 Sep; 87(9):995-1000

Clinical correlates of bombesin-like peptide receptor subtype expression in human lung cancer cells. Toi-Scott M, et al. **Lung Cancer** 1996 Nov;15(3):341-54

Osmotic and non-osmotic regulation of arginine vasopressin (AVP) release, mRNA, and promoter activity in small cell lung carcinoma (SCLC) cells. Kim JK, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):179-86

BW 1023U90: a new GRP receptor antagonist for small-cell lung cancer cells. Moody TW, et al. **Peptides** 1996;

17(8):1337–43

Reduction in receptors for bombesin and epidermal growth factor in xenografts of human small-cell lung cancer after treatment with bombesin antagonist RC-3095. Halmos G, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):956–60

Gastrin levels in serum and bronchoalveolar lavage fluid of patients with lung cancer: comparison with patients with chronic obstructive pulmonary disease. Dowlati A, et al. **Thorax** 1996 Dec;51(12):1270–2

Metabolism in patients with small cell lung carcinoma compared with patients with non-small cell lung carcinoma and healthy controls. Staal-van den Brekel AJ, et al. **Thorax** 1997 Apr;52(4):338–41

[Neurophysins and small-cell pulmonary cancer] Pirard F, et al. **Rev Med Liege** 1997;52(1):22–6 (24 ref.) **(Fre)**

[Difference in expression of epithelial adhesion molecules between primary and metastatic lesions in small-cell lung cancer] Yoshida H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1077–83 (Eng. Abstr.) **(Jpn)**

[The body's antioxidative systems in bronchopulmonary disease] Khyshiktuev BS. **Vestn Ross Akad Med Nauk** 1996; (9):23–7 (Eng. Abstr.) **(Rus)**

MORTALITY

Survival of patients with extensive small-cell lung cancer who have only brain metastases at initial diagnosis. Kochhar R, et al. **Am J Clin Oncol** 1997 Apr;20(2):125–7

Decrease of interleukin-2 secretion is a new independent prognostic factor associated with poor survival in patients with small-cell lung cancer. Fischer JR, et al. **Ann Oncol** 1997 May;8(5):457–61

Prognostic factors and prognostic staging system for small cell lung cancer. Kawahara M, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):158–65

Long-term survival in small cell lung cancer: the case for a standard definition. Medical Research Council Lung Cancer Working Party. Stephens RJ, et al. **Lung Cancer** 1996 Nov;15(3):297–309

[Evaluation of survival and prognostic factors of 2,000 broncho-pulmonary cancers registered during 10 years in a multidisciplinary oncology department] Moro D, et al. **Bull Cancer** 1997 Feb;84(2):155–61 (37 ref.) (Eng. Abstr.) **(Fre)**

[Prolonged survival in a case of small cell lung carcinoma (letter)] Marcos Sanchez F, et al. **An Med Interna** 1996 Feb;13(2):101 **(Spa)**

PATHOLOGY

Primary lymphoma of the endometrium. A report of two cases diagnosed on cervicovaginal smears. Cahill LA, et al. **Acta Cytol** 1997 Mar-Apr;41(2):533–8

Adrenal pheochromocytoma mimicking small cell carcinoma on fine needle aspiration biopsy. A case report. Deodhare S, et al. **Acta Cytol** 1996 Sep-Oct;40(5):1003–6

Exfoliative cytology of invasive neuroendocrine small cell carcinoma in a cervical cytologic smear. A case report. Reich O, et al. **Acta Cytol** 1996 Sep-Oct;40(5):980–4

Small cell anaplastic carcinoma of the prostate: seven new cases, review of the literature, and discussion of a therapeutic strategy. Rubenstein JH, et al. **Am J Clin Oncol** 1997 Aug;20(4):376–80 (27 ref.)

P-selectin-mediated attachment of small cell lung carcinoma to endothelial cells. Pottratz ST, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L918–23

A comparison of flow and image DNA cytometry in prediction of patient prognosis in surgically resected small cell lung cancer. Carey FA, et al. **Anal Cell Pathol** 1996 Dec;12(3):137–43

VIP inhibits the proliferation of small-cell and nonsmall-cell lung carcinoma. Maruno K, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:389–92; discussion 392–3

Effect of serotonin and nicotine on the growth of a human small cell lung cancer xenograft. Pratesi G, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3615–9

Cholinergic stimulation of human microcytoma cell line H69. Fucile S, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):501–4

Small cell neuroendocrine carcinoma of the urinary bladder. A clinicopathologic study with emphasis on cytologic features. Ali SZ, et al. **Cancer** 1997 Jan 15;79(2):356–61

Extrapulmonary small cell carcinoma. Galanis E, et al. **Cancer** 1997 May 1;79(9):1729–36

Cholera toxin triggers apoptosis in human lung cancer cell lines. Allam M, et al. **Cancer Res** 1997 Jul 1;57(13):2615–8

Induction of apoptosis and inhibition of small cell lung cancer growth by the quinoxaline tyrphostins. Krystal GW, et al. **Cancer Res** 1997 Jun 1;57(11):2203–8

Involvement of hydrogen peroxide production in erbstatin-induced apoptosis in human small cell lung carcinoma cells. Simizu S, et al. **Cancer Res** 1996 Nov 1; 56(21):4978–82

Regulation of cadherin-mediated adhesion by the small GTP-binding protein Rho in small cell lung carcinoma cells. Tokman MG, et al. **Cancer Res** 1997 May 1; 57(9):1785–93

Cell-substratum interactions mediate oncogene-induced phenotype of lung cancer cells. Barr LF, et al. **Cell Growth Differ** 1996 Sep;7(9):1149–56

Embryonal rhabdomyosarcoma of the uterine corpus mistaken for small cell carcinoma: a case report. Shu WH, et al. **Chang Keng I Hsueh** 1996 Jun;19(2):181–6

Carbon dioxide, an important messenger molecule for small cell lung cancer. Merryman JI, et al. **Chest** 1997 Sep; 112(3):779–84

Staging of the patient with small cell lung cancer. Darling GE. **Chest Surg Clin N Am** 1997 Feb;7(1):81–94 (54 ref.)

Is there a place for surgery in central small cell lung cancer? Kohman LJ. **Chest Surg Clin N Am** 1997 Feb;7(1):105–12 (36 ref.)

Small cell carcinoma of the cervix. Sheridan E, et al. **Clin Oncol (R Coll Radiol)** 1996;8(2):102–5

Fine-needle aspiration cytology of metastatic small cell carcinoma of the colon: a report of three cases. Silverman JF, et al. **Diagn Cytopathol** 1996 Jul;15(1):54–9

Diagnostic pitfalls in fine-needle aspiration biopsy of the mediastinum. Singh HK, et al. **Diagn Cytopathol** 1997 Aug; 17(2):121–6

Cytology of small cell carcinoma of the urinary bladder. van Hoeven KH, et al. **Diagn Cytopathol** 1996 Jun;14(4):292–7

Composite tumor of the esophagus with tripartite differentiation. Nishimaki T, et al. **Dig Dis Sci** 1997 May; 42(5):1041–6

Evidence for receptor subtype cross-talk in the mitogenic action of serotonin on human small-cell lung carcinoma cells. Vicentini LM, et al. **Eur J Pharmacol** 1996 Dec 30; 318(2–3):497–504

A 100-kDa protein tyrosine phosphorylation is concurrent with beta 1 integrin-mediated morphological differentiation in neuroblastoma and small cell lung cancer cells. Tachibana I, et al. **Exp Cell Res** 1996 Sep 15;227(2):230–9

Small cell carcinoma of the ovary, hypercalcemic type. A case report with immunohistochemical, ultrastructural and cytophotometric analysis and review of the literature. Förster C, et al. **Gen Diagn Pathol** 1997 Jun; 142(5–6):365–70 (16 ref.)

Successful treatment of neuroendocrine small cell carcinoma of the cervix metastatic to regional lymph nodes. Kim YB, et al. **Gynecol Oncol** 1996 Sep;62(3):411–4

Small cell carcinoma of the esophagus combined with superficial esophageal cancer. Fujiwara Y, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1360–9

Small cell carcinoma of the liver: a hitherto unreported variant of hepatocellular carcinoma. Zanconati F, et al. **Histopathology** 1996 Nov;29(5):449–53

An intra-abdominal small round cell neoplasm with features of primitive neuroectodermal and desmoplastic round cell tumor and a EWS/FLI-1 fusion transcript. Katz RL, et al. **Hum Pathol** 1997 Apr;28(4):502–9

Small cell undifferentiated carcinoma of the colon associated with hepatocellular carcinoma in an immunodeficient patient. Zirkin HJ, et al. **Hum Pathol** 1996 Sep;27(9):992–6

Primary small-cell lung carcinomas and their metastases are characterized by a recurrent pattern of genetic alterations. Schwendel A, et al. **Int J Cancer** 1997 Feb 20;74(1):86–93

Stimulatory effect of reconstituted basement membrane components (matrigel) on the colony formation of a panel of human lung cancer cell lines in soft agar. Yoshida S, et al. **J Cancer Res Clin Oncol** 1997;123(6):301–9

Spectrum of neuroendocrine differentiation in lung cancer cell lines featured by cytomorphology, markers, and their corresponding tumors. Linnoila RI. **J Cell Biochem Suppl** 1996;24:92–106 (66 ref.)

Cell culture methods for the establishment of the NCI series of lung cancer cell lines. Oie HK, et al. **J Cell Biochem Suppl** 1996;24:24–31 (22 ref.)

Transferrin dependence of Ga (NO3)3 inhibition of growth in human-derived small cell lung cancer cells. Weiner RE, et al. **J Cell Biochem Suppl** 1996;24:276–87

Synchronous primary neuroendocrine carcinoma and adenocarcinoma in Barrett's esophagus. Saw EC, et al. **J Clin Gastroenterol** 1997 Mar;24(2):116–9

Predominant downgaze ophthalmoparesis in anti-Hu encephalomyelitis [letter; comment] Schiff ND, et al. **J Neuroophthalmol** 1996 Dec;16(4):302–3. Comment on: J Neuroophthalmol 1996 Mar;16(1):44–8.

Apoptosis in operated small cell lung carcinoma is inversely related to tumour necrosis and p53 immunoreactivity. Eerola AK, et al. **J Pathol** 1997 Feb;181(2):172–7

Development and elongation of neurite-like outgrowth on small cell lung cancer cell lines. Tanaka K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):176–83

Brain relapses in chemotherapy-treated small cell lung cancer: a retrospective review of two time-dose regimens of therapeutic brain irradiation. Bach F, et al. **Lung Cancer** 1996 Sep;15(2):171–81

Measurement of serum p53 protein in patients with small cell lung cancer and results of its clinicopathological evaluation. Segawa Y, et al. **Lung Cancer** 1997 Mar; 16(2–3):229–38

Olfactory neuroblastoma and other round cell lesions of the sinonasal region. Devaney K, et al. **Mod Pathol** 1996 Jun; 9(6):658–63

Intra-abdominal desmoplastic small round-cell tumor: expansion of the pathologic profile. Dorsey BV, et al. **Mod Pathol** 1996 Jun;9(6):703–9

Small cell carcinoma of the uterine cervix with syndrome of inappropriate antidiuretic hormone secretion. Ishibashi-Ueda H, et al. **Mod Pathol** 1996 Apr;9(4):397–400

Radiology/pathology conference at UMDNJ. Moubarak IF, et al. **N J Med** 1997 Jun;94(6):35–8; quiz 39–40

Autopsy findings in small cell lung cancer. Jereczek B, et al. **Neoplasma** 1996;43(2):133–7

Plasma thrombin-antithrombin complexes, latent coagulation disorders and metastatic spread in lung cancer: a longitudinal study. Tricerri A, et al. **Oncology** 1996 Nov-Dec;53(6):455–60

Small cell carcinoma arising from the outer urethral orifice: a case report examined by histologic, ultrastructural and immunohistochemical methods. Fukuda T, et al. **Pathol Int** 1997 Jul;47(7):497–501

Small cell carcinoma of the ovary: a case report of large cell variant. Fukunaga M, et al. **Pathol Int** 1997 Apr; 47(4):250–5 (18 ref.)

Clinicopathologic study of 97 cases of small renal cell carcinomas using DNA flow cytometric analyses. Shishikura Y, et al. **Pathol Int** 1996 Dec;46(12):947–52

Small-cell neuroendocrine carcinoma of the uterine cervix associated with micro-invasive squamous cell carcinoma and adenocarcinoma in situ. Toki T, et al. **Pathol Int** 1996 Jul;46(7):520–5

Peripheral lung carcinomas associated with central fibrosis and mixed small cell and other histologic components. Usuda H, et al. **Pathol Int** 1995 Dec;45(12):940–6

Small cell carcinoma of lung simulating pleural mesothelioma. Report of 4 cases with autopsy confirmation. Falconieri G, et al. **Pathol Res Pract** 1995 Nov; 191(11):1147–52 (17 ref.)

Two cases of small cell carcinoma of the prostate. Okada H, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):503–8

Progression from adenocarcinoma to small cell carcinoma of the prostate with normalization of prostate-specific antigen (PSA) levels. Valle J, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):509–12

Endocrine cells in tumour-bearing lungs. Sheard JD, et al. **Thorax** 1996 Jul;51(7):721–6

Primary small cell neuroendocrine carcinoma of the kidney. Morgan KG, et al. **Ultrastruct Pathol** 1996 Mar-Apr; 20(2):141–4

Small cell undifferentiated carcinoma of the pancreas. Ordóñez NG, et al. **Ultrastruct Pathol** 1997 Sep-Oct; 21(5):467–74

Small cell neuroendocrine carcinoma of the ovary. Fukunaga M, et al. **Virchows Arch** 1997 Apr;430(4):343–8

[Discontinuous lymph node metastases ("skipping") in malignant lung tumors] Junker K, et al. **Chirurg** 1997 Jun; 68(6):596–9; discussion 600 (Eng. Abstr.) **(Ger)**

[Neuroendocrine differentiated carcinoma of the uterine cervix] Horn LC, et al. **Zentralbl Gynakol** 1996; 118(12):679–83 (Eng. Abstr.) **(Ger)**

[gamma-Glutamylcysteine synthetase and chemosensitivity] Nishio K, et al. **Gan To Kagaku Ryoho** 1997 Feb; 24(4):418–23 (10 ref.) (Eng. Abstr.) **(Jpn)**

[A PTHrP-producing cell line derived from human small cell lung carcinoma] Iguchi H. **Hum Cell** 1996 Mar; 9(1):75–8 (Eng. Abstr.) **(Jpn)**

[A 63 year-old man with progressive gait disturbance and dysarthria] Nakamura N, et al. **No To Shinkei** 1996 Sep; 48(9):865–75 (Eng. Abstr.) **(Jpn)**

[Small cell lung carcinoma in the form of multiple lung nodules] García Arangüena L, et al. **Arch Bronconeumol** 1997 Jan;33(1):52–4 (Eng. Abstr.) **(Spa)**

[Small cell-sarcomatoid carcinoma of the urinary bladder] Dominguez Iglesias F, et al. **Arch Esp Urol** 1996 Jul-Aug; 49(6):631–5 (15 ref.) (Eng. Abstr.) **(Spa)**

[Undifferentiated small cell carcinoma (oat-cell type) of the colon. Prognostic and therapeutic implications] Acea Nebril B, et al. **Rev Esp Enferm Dig** 1996 Aug;88(8):533–8 (22 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Small cell carcinoma as the cause for a nondiagnostic V/Q lung scan. Veatch MD, et al. **Am J Emerg Med** 1996 Mar; 14(2):183–5

NADPH-oxidase and a hydrogen peroxide-sensitive K+ channel may function as an oxygen sensor complex in airway chemoreceptors and small cell lung carcinoma cell lines. Wang D, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13182–7

PREVENTION & CONTROL

Prophylactic cranial irradiation for patients with small cell lung cancer. An enduring controversy. Wagner H Jr. **Chest Surg Clin N Am** 1997 Feb;7(1):151–66 (53 ref.)

Prophylactic cranial irradiation in small cell lung cancer (SCLC) makes a comeback [editorial] Gregor A. **Clin Oncol (R Coll Radiol)** 1997;9(3):148–9

Prophylactic cranial irradiation in limited stage small cell lung cancer: survival benefit in patients with favourable characteristics. Work E, et al. **Eur J Cancer** 1996 May; 32A(5):772–8

PSYCHOLOGY

Initial prognostic factors in small-cell lung cancer patients predicting quality of life during chemotherapy. Swiss Group for Clinical Cancer Research (SAKK). Bernhard J, et al. **Br J Cancer** 1996 Nov;74(10):1660–7

Sample sizes for randomized trials measuring quality of life in cancer patients. Julious SA, et al. **Qual Life Res** 1997 Mar;6(2):109–17

['We can still treat you'; communication with patients with a small-cell bronchial carcinoma] The BA, et al. **Ned Tijdschr Geneeskd** 1996 Oct 12;140(41):2021–3 **(Dut)**

CARCINOMA, SMALL CELL

RADIOGRAPHY

Primary small-cell carcinoma of the oesophagus with spontaneous oesophageal perforation following chemotherapy. Clark T, et al. **Australas Radiol** 1996 Aug; 40(3):250–3

Imaging of small cell carcinoma of the male urogenital tract. Blunt DM, et al. **Clin Radiol** 1996 Oct;51(10):724–7

Randomized study of initial versus late chest irradiation combined with chemotherapy in limited-stage small-cell lung cancer. Aarhus Lung Cancer Group [see comments] Work E, et al. **J Clin Oncol** 1997 Sep;15(9):3030–7. Comment in: J Clin Oncol 1997 Sep;15(9):3027–9.

Lung cancer in patients with idiopathic pulmonary fibrosis: CT findings. Lee HJ, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):979–82

[Small cell bronchial carcinoma and pleural empyema after pneumonectomy for tuberculosis] Lange W, et al. **Aktuelle Radiol** 1997 May;7(3):154–5 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Small cell carcinoma as the cause for a nondiagnostic V/Q lung scan. Veatch MD, et al. **Am J Emerg Med** 1996 Mar; 14(2):183–5

Ring appearance of Tc-99m MIBI thoracic SPECTs and increased uptake on Tc-99m HMDP thoracic SPECTs in a pulmonary mass of small cell carcinoma. Shih WJ, et al. **Ann Nucl Med** 1996 Nov;10(4):425–8

False-positive results for hepatic hemangioma on Tc-99m RBC SPECT caused by a liver metastasis from small-cell lung carcinoma. Shih WJ, et al. **Clin Nucl Med** 1996 Nov; 21(11):898–9

Somatostatin receptor imaging in small cell lung cancer. Berenger N, et al. **Eur J Cancer** 1996 Jul;32A(8):1429–31

Rapid rise in FDG uptake in an irradiated human tumour xenograft. Furuta M, et al. **Eur J Nucl Med** 1997 Apr; 24(4):435–8

Targeting of small-cell lung cancer using the anti-GD2 ganglioside monoclonal antibody 3F8: a pilot trial. Grant SC, et al. **Eur J Nucl Med** 1996 Feb;23(2):145–9

Localization of small-cell lung cancer xenografts with iodine-125-, indium-111-, and rhenium-188-somatostatin analogs. Hosono M, et al. **Jpn J Cancer Res** 1996 Sep; 87(9):995–1000

Intensification of 111In-DTPA-octreotide scintigraphy by means of pretreatment with cold octreotide in small cell lung cancer. Soresi E, et al. **Lung Cancer** 1997 Jul; 17(2–3):231–8

Visualization of lung cancer with 99Tcm-tetrofosmin imaging: a comparison with 201T1. Takekawa H, et al. **Nucl Med Commun** 1997 Apr;18(4):341–5

111In-DTPA-D-Phe-1-octreotide scintigraphy of small cell lung cancer. Bombardieri E, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):104–7

111In-octreotide scintigraphy in small cell lung cancer. Semprebene A, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):108–10

[Evaluation of 99mTc-MIBI to predict chemotherapeutic response in patients with small cell lung carcinoma] Yamamoto Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):980–1 (Eng. Abstr.) **(Jpn)**

RADIOTHERAPY

Spontaneous retroperitoneal hemorrhage due to adrenal metastasis for non-small cell lung cancer treated by radiation therapy. Berney CR, et al. **Acta Oncol** 1997; 36(1):91–3 (25 ref.)

Radiation treatment of superior sulcus lung carcinoma. Millar J, et al. **Australas Radiol** 1996 Feb;40(1):55–60

Palliative effectiveness of radiation therapy in the treatment of superior vena cava syndrome. Egelmeers A, et al. **Bull Cancer Radiother** 1996;83(3):153–7

Fast neutron therapy of bronchus carcinoma: the pooled results from two European centres. Lessel A. **Bull Cancer Radiother** 1996;83 Suppl:130s–4s

Role of radiotherapy in the treatment of small cell lung carcinoma. Williams TE, et al. **Chest Surg Clin N Am** 1997 Feb;7(1):135–49 (59 ref.)

Cellular radiosensitivity of small-cell lung cancer cell lines. Krarup M, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):191–6

c-Jun NH2-terminal kinase regulation of the apoptotic response of small cell lung cancer cells to ultraviolet radiation. Butterfield L, et al. **J Biol Chem** 1997 Apr 11; 272(15):10110–6

Initial versus delayed accelerated hyperfractionated radiation therapy and concurrent chemotherapy in limited small-cell lung cancer: a randomized study. Jeremic B, et al. **J Clin Oncol** 1997 Mar;15(3):893–900

Bispecific antibody and iodine-131-labeled bivalent hapten dosimetry in patients with medullary thyroid or small-cell lung cancer. Bardiès M, et al. **J Nucl Med** 1996 Nov; 37(11):1853–9

Enhancement of tumor radio-response by irinotecan in human lung tumor xenografts. Tamura K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):218–23

Prophylactic cranial irradiation for small-cell lung cancer [letter; comment] Arriagada R, et al. **Lancet** 1997 Jan 11; 349(9045):138. Comment on: Lancet 1996 Aug 10;348(9024):350.

Thoracic irradiation of limited small cell lung cancer: have we defined optimal dose, time, and fractionation? Wagner H Jr. **Lung Cancer** 1997 Jun;17 Suppl 1:S137–48 (28 ref.)

Indications, results and techniques of radiotherapy in the treatment of small-cell lung cancer. Palazzi M, et al. **Tumori** 1996 Jul–Aug;82(4):345–52

[Adjuvant whole-brain irradiation in small-cell bronchial carcinoma] Kiricuta IC, et al. **Strahlenther Onkol** 1996 Oct; 172(10):553–8 (33 ref.) (Eng. Abstr.) **(Ger)**

[Does prophylactic whole-brain irradiation in small-cell bronchial carcinoma at the "limited disease" stage improve overall survival?] Rübe C. **Strahlenther Onkol** 1996 Mar; 172(3):176–7 **(Ger)**

[Importance of timing for radiation therapy in limited-stage small cell lung cancer] Mizutani Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep; 56(11):726–30 (Eng. Abstr.) **(Jpn)**

[Chemotherapy versus chemoradiotherapy in patients with limited small cell lung carcinoma] Byszewska D, et al. **Pneumonol Alergol Pol** 1997;65(5–6):318–25 (Eng. Abstr.) **(Pol)**

[High-dose endobronchial brachytherapy in malignant tumors of the lung] Escobar Sacristán J, et al. **Arch Bronconeumol** 1997 Jun;33(6):278–83 (Eng. Abstr.) **(Spa)**

[Radiotherapy of lung cancer. Optimized radiotherapy improves survival] Brodin O. **Lakartidningen** 1997 May 14; 94(20):1881–6 (25 ref.) **(Swe)**

SECONDARY

Small cell neuroendocrine carcinoma: cytologic findings in a breast aspirate [letter] Ali SZ, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1237–40

Spontaneous retroperitoneal hemorrhage due to adrenal metastasis for non-small cell lung cancer treated by radiation therapy. Berney CR, et al. **Acta Oncol** 1997; 36(1):91–3 (25 ref.)

Cancer-associated retinopathy: a clinicopathological case report. Boucher MC, et al. **Can J Ophthalmol** 1997 Feb; 32(1):46–9

Utility of screening procedures for detecting recurrence of disease after complete response in patients with small cell lung carcinoma. Perez EA, et al. **Cancer** 1997 Aug 15; 80(4):676–80

Macrophage colony-stimulating factor gene transduction into human lung cancer cells differentially regulates metastasis formations in various organ microenvironments of natural killer cell-depleted SCID mice. Yano S, et al. **Cancer Res** 1997 Feb 15;57(4):784–90

Prophylactic cranial irradiation for patients with small cell lung cancer. An enduring controversy. Wagner H Jr. **Chest Surg Clin N Am** 1997 Feb;7(1):151–66 (53 ref.)

Magnetic resonance imaging of intramedullary spinal cord metastases. Markus JB. **Clin Imaging** 1996 Oct–Dec; 20(4):238–42

False-positive results for hepatic hemangioma on Tc-99m RBC SPECT caused by a liver metastasis from small-cell lung carcinoma. Shih WJ, et al. **Clin Nucl Med** 1996 Nov; 21(11):898–9

Prophylactic cranial irradiation in small cell lung cancer (SCLC) makes a comeback [editorial] Gregor A. **Clin Oncol (R Coll Radiol)** 1997;9(3):148–9

Fine-needle aspiration cytology of metastatic small cell carcinoma of the colon: a report of three cases. Silverman JF, et al. **Diagn Cytopathol** 1996 Jul;15(1):54–9

Detection of bone marrow metastases in small cell lung cancer. Comparison of magnetic resonance imaging with standard methods. Hochstenbag MM, et al. **Eur J Cancer** 1996 May;32A(5):779–82

Prophylactic cranial irradiation in limited stage small cell lung cancer: survival benefit in patients with favourable characteristics. Work E, et al. **Eur J Cancer** 1996 May; 32A(5):772–8

CNS metastases: one's too many. Lekos A, et al. **J Clin Oncol** 1997 Aug;15(8):3019–20

Orthopaedic clinical note. Patella metastases: a case report. Buckley SC, et al. **J R Coll Surg Edinb** 1997 Apr; 42(2):122–3

Small-cell carcinoma of the prostate. Nutting C, et al. **J R Soc Med** 1997 Jun;90(6):340–1

Liver failure due to metastatic small-cell carcinoma of the lung [letter; comment] Galus M. **Mayo Clin Proc** 1997 Aug; 72(8):791. Comment on: Mayo Clin Proc 1997 Feb;72(2):133–9.

Images in clinical medicine. Intramedullary spinal cord metastases. Ijaz T, et al. **N Engl J Med** 1997 Mar 13; 336(11):768

Small cell carcinoma of the lung metastatic to the palatine tonsil. Hisa Y, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):563–4

Prophylactic cranial irradiation in small cell lung cancer: rationale, results, and recommendations. Glantz MJ, et al. **Semin Oncol** 1997 Aug;24(4):477–83 (76 ref.)

[Bone metastasis of bronchial carcinoma to the wrist. Case report] Königsberger H, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):46–9 (Eng. Abstr.) **(Ger)**

[Difference in expression of epithelial adhesion molecules between primary and metastatic lesions in small-cell lung cancer] Yoshida H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1077–83 (Eng. Abstr.) **(Jpn)**

[Small renal cell carcinoma of the prostate with cerebral metastasis] Rivas Alonso A, et al. **Actas Urol Esp** 1996 Jun;20(6):582–5 (Eng. Abstr.) **(Spa)**

[Acute liver failure as presentation form of small cell carcinoma of the lung] Valladares Ayerbes MJ, et al. **An Med Interna** 1997 Mar;14(3):128–30 (Eng. Abstr.) **(Spa)**

SECRETION

A link between metastasis and resistance to apoptosis of variant small cell lung carcinoma. Shtivelman E. **Oncogene** 1997 May 8;14(18):2167–73

SURGERY

A comparison of flow and image DNA cytometry in prediction of patient prognosis in surgically resected small cell lung cancer. Carey FA, et al. **Anal Cell Pathol** 1996 Dec;12(3):137–43

The role of surgery in small-cell lung cancer: a case history. Colder CD, et al. **Ann Oncol** 1996 Mar;7(3):303–9

A pilot phase 2 study of surgical treatment after induction chemotherapy for resectable stage I to IIIA small cell lung cancer. Fujimori K, et al. **Chest** 1997 Apr;111(4):1089–93

Is there a place for surgery in central small cell lung cancer? Kohman LJ. **Chest Surg Clin N Am** 1997 Feb;7(1):105–12 (36 ref.)

Surgical treatment of peripheral small cell lung cancer. Urschel JD. **Chest Surg Clin N Am** 1997 Feb;7(1):95–103 (47 ref.)

Morbidity, mortality, and survival after bronchoplastic procedures for lung cancer. Rea F, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):201–5

Resection rates and postoperative mortality in 7,899 patients with lung cancer. Damhuis RA, et al. **Eur Respir J** 1996 Jan;9(1):7–10

Advanced-stage small cell carcinoma of the ovary in pregnancy: long-term survival after surgical debulking and multiagent chemotherapy. Tewari K, et al. **Gynecol Oncol** 1997 Sep;66(3):531–4

A case of small cell carcinoma of the stomach. Matsui T, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):156–60

Is there a role for surgery in small-cell lung cancer? Urschel JD, et al. **J R Soc Med** 1997 Jul;90(7):387–90 (53 ref.)

Risk of urethral, vaginal and cervical involvement in patients undergoing radical cystectomy for bladder cancer: results of a contemporary cystectomy series from M. D. Anderson Cancer Center. Chen ME, et al. **J Urol** 1997 Jun; 157(6):2120–3 (13 ref.)

Surgery for small cell lung cancer. Deslauriers J. **Lung Cancer** 1997 Jun;17 Suppl 1:S91–8 (39 ref.)

Second lung cancers in patients successfully treated for lung cancer. Johnson BE, et al. **Semin Oncol** 1997 Aug; 24(4):492–9 (47 ref.)

[Small cell carcinoma of the prostate. Apropos of a case] Zrara I, et al. **J Urol (Paris)** 1996;102(4):188–90 (Eng. Abstr.) **(Fre)**

[Multiple synchronous small intestine carcinomas. A rare case observation] Doertenbach JG, et al. **Langenbecks Arch Chir** 1996;381(4):218–20 (Eng. Abstr.) **(Ger)**

[Lung surgery in elderly patients--an increased risk?] Gross T, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:830–3 (Eng. Abstr.) **(Ger)**

[Small cell carcinoma of the esophagus: a case report] Tartaglia F, et al. **Ann Ital Chir** 1997 Jan–Feb;68(1):89–93; discussion 93–4 (Eng. Abstr.) **(Ita)**

[Video-assisted right pneumonectomy for small cell carcinoma] Sugiyama S, et al. **Kyobu Geka** 1996 Sep; 49(10):832–5 (Eng. Abstr.) **(Jpn)**

[Surgical treatment for small cell lung cancer] Ichinose Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:99–102 (11 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

Treatment of small cell lung cancer: a single institutional experience. Soh LT, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):531–5

High-dose chemo-radiotherapy cycles for LD small cell lung cancer patients using G-CSF and blood stem cells. Humblet Y, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S36–9

Sequential high-dose ICE chemotherapy with circulating progenitor cells (CPC) in small cell lung cancer: an EBMT study. Perey L, et al. **Bone Marrow Transplant** 1996 Sep; 18 Suppl 1:S40–3

Treatment intensification which includes high-dose induction improves survival of lung carcinoma patients treated by high-dose chemotherapy with hematopoietic progenitor cell rescue but does not prevent high rate of relapses. Tomeczko J, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S44–7

A novel immunotoxin recognising the epithelial glycoprotein-2 has potent antitumoural activity on chemotherapy-resistant lung cancer. Zimmermann S, et al. **Cancer Immunol Immunother** 1997 Mar;44(1):1–9

Antitumor activity of a monoclonal antibody directed against gastrin-releasing peptide in patients with small cell lung cancer. Kelley MJ, et al. **Chest** 1997 Jul;112(1):256–61

Practical issues in the management of the patient with small cell lung cancer [published erratum appears in Chest Surg Clin N Am 1997 Aug;7(3):447] Govindan R, et al. **Chest Surg Clin N Am** 1997 Feb;7(1):167–81 (74 ref.)

Future directions in the therapy of small cell lung cancer. Perry MC. **Chest Surg Clin N Am** 1997 Feb;7(1):183–94 (56 ref.)

Promising lung cancer vaccine [news] **Environ Health Perspect** 1996 Nov;104(11):1147–8

Adjunctive interferon–alpha–2c in stage IIIB/IV small–cell lung cancer: a phase III trial [published erratum appears in Eur Respir J 1997 Apr;10(4):963] Prior C, et al. **Eur Respir J** 1997 Feb;10(2):392–6

Combined therapy of multidrug–resistant human lung cancer with anti–P–glycoprotein antibody and monocyte chemoattractant protein–1 gene transduction: the possibility of immunological overcoming of multidrug resistance. Nishioka Y, et al. **Int J Cancer** 1997 Apr 10; 71(2):170–7

"Web–like obstruction"—a sign of regional complete remission after concurrent chemoradiotherapy in small cell lung cancer. Hanada T, et al. **Intern Med** 1996 Sep; 35(9):732–5

Summary of the proceedings of the United States–Japan lung cancer clinical trials summit. Maui, Hawaii, 24–25 February 1996. Livingston RB, et al. **J Cancer Res Clin Oncol** 1997; 123(8):461–6

Randomized trial of alternating versus sequential radiotherapy/chemotherapy in limited–disease patients with small–cell lung cancer: a European Organization for Research and Treatment of Cancer Lung Cancer Cooperative Group Study. Gregor A, et al. **J Clin Oncol** 1997 Aug;15(8):2840–9

Immunotoxin therapy of small–cell lung cancer: a phase I study of N901–blocked ricin. Lynch TJ Jr, et al. **J Clin Oncol** 1997 Feb;15(2):723–34

Interferon maintenance therapy for small cell lung cancer: improvement in long–term survival. Mattson K, et al. **J Interferon Cytokine Res** 1997 Feb;17(2):103–5

Induction of apoptosis in small–cell lung cancer cells by an antisense oligodeoxynucleotide targeting the Bcl–2 coding sequence [see comments] Ziegler A, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1027–36. Comment in: J Natl Cancer Inst 1997 Jul 16;89(14):988–90.

Small cell lung cancer. Ihde D, et al. **Lung Cancer** 1997 Jun; 17 Suppl 1:S19–21 (0 ref.)

Lung cancer: review of the ECOG experience. Eastern Cooperative Oncology Group. Schiller JH, et al. **Oncology** 1997 Sep–Oct;54(5):353–62 (71 ref.)

Long survival in small–cell (neuroendocrine) carcinoma of the mediastinum. Takanami I, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3–4):179–80

Current management of small cell lung cancer. Sandler AB. **Semin Oncol** 1997 Aug;24(4):463–76 (71 ref.)

Introduction to the treatment of lung cancer. Splinter TA. **Semin Oncol** 1997 Aug;24(4 Suppl 12):S12–1–S12–5 (44 ref.)

Treatment of small cell lung cancer. Blanke CD, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):101–10 (60 ref.)

The diagnosis and management of small (< or = 3 cm) renal neoplasms: a commentary. Wills JS. **Semin Ultrasound CT MR** 1997 Apr;18(2):75–81 (55 ref.)

Clinical trials in lung cancer: nihilism versus enthusiasm. Spiro SG. **Thorax** 1997 Jul;52(7):598–604 (20 ref.)

[Small cell lung cancer (letter; comment)] Lundstedt C. **Ugeskr Laeger** 1996 Oct 7;158(41):5801–2. Comment on: Ugeskr Laeger 1996 Aug 5;158(32):4517–9. **(Dan)**

[Biological basis of combined chemo–radiotherapy. Applications to lung cancers] Mornex F, et al. **Cancer Radiother** 1997;1(1):29–41 (70 ref.) (Eng. Abstr.) **(Fre)**

[Investigation of chemotherapy combined with peripheral blood stem cell transplantation (PBSCT) both in elderly and in recurred patients with small cell lung cancer] Daido K, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):883–7 **(Jpn)**

[Two cases of small cell carcinoma of the urinary bladder] Imamura M, et al. **Hinyokika Kiyo** 1996 Aug;42(8):595–9 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Therapeutic strategy for small cell lung cancer] Fukuoka M. **Nippon Geka Gakkai Zasshi** 1997 Jan;98(1):46–52 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Small cell lung cancer with acute monocytic leukemia after combined chemotherapy including etoposide] Tamada T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):577–82 (Eng. Abstr.) **(Jpn)**

[A new strategy for treating small cell lung cancer] Ueda R, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34 Suppl:111–4 (7 ref.) (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

The prognostic value of semiquantitative nuclear grading in endometrial carcinomas. Hachisuga T, et al. **Gynecol Oncol** 1997 Apr;65(1):115–20

Small–cell carcinoma of the endometrium: an immunohistochemical and ultrastructural analysis. Tsujioka H, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):9–16

Primary small cell neuroendocrine carcinoma of the kidney. Morgan KG, et al. **Ultrastruct Pathol** 1996 Mar–Apr; 20(2):141–4

VIROLOGY

Detection of group C adenovirus DNA in small–cell lung cancer with the nested polymerase chain reaction. Kuwano K, et al. **J Cancer Res Clin Oncol** 1997;123(7):377–82

CARCINOMA, SMALL CELL LUNG see **CARCINOMA, SMALL CELL**

CARCINOMA, SPINDLE–CELL see **CARCINOMA**

CARCINOMA, SQUAMOUS see **CARCINOMA, SQUAMOUS CELL**

CARCINOMA, SQUAMOUS CELL

Tracking of hypopharyngeal carcinoma over 10 years. Kojima K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:146–50

Therapeutic results in 40 patients with tongue cancer. Okumura K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:142–5

Surgical morbidity of neck dissection after chemoradiotherapy in advanced head and neck cancer. Newman JP, et al. **Ann Otol Rhinol Laryngol** 1997 Feb; 106(2):117–22

Abnormal nails in a patient with severe anemia. Dyskeratosis congenita. Limmer RL, et al. **Arch Dermatol** 1997 Jan; 133(1):97–8, 101

Oral squamous cell carcinoma in association with dental osseointegrated implants. An unusual occurrence. Clapp C, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec; 122(12):1402–3

A new immunocompetent murine model for oral cancer. O'Malley BW Jr, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):20–4

Lymphoepithelial carcinoma of the minor salivary gland. Worley NK, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):638–40

Epidermoid carcinoma of the hand: report of a case. Morales P, et al. **Bol Asoc Med P R** 1996 Jan–Mar;88(1–3):16–9

Etiology and pathogenesis of squamous cell carcinoma. Markey AC. **Clin Dermatol** 1995 Nov–Dec;13(6):537–43 (99 ref.)

A patient with recurrent carcinoma of the larynx with difficult pain and other symptoms [clinical conference] Forbes K, et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):393–6

Panendoscopy as a screening procedure for simultaneous primary tumors in head and neck cancer. Dhooge IJ, et al. **Eur Arch Otorhinolaryngol** 1996;253(6):319–24

Carcinoma of the buccal mucosa: a 30–year analysis at the Medical Center of Louisiana at New Orleans. Govett GS, et al. **J La State Med Soc** 1997 Jun;149(6):182–5

Squamous cell carcinoma of head and neck. Voravud N, et al. **J Med Assoc Thai** 1997 Apr;80(4):207–18 (98 ref.)

A rationale for therapy of the N0 neck. Pillsbury HC 3rd, et al. **Laryngoscope** 1997 Oct;107(10):1294–315 (210 ref.)

Tumor Board Conference from the University of Pittsburgh. Pitman KT, et al. **Oncology (Huntingt)** 1997 Jul; 11(7):1033–9

Prospective, longitudinal quality–of–life study of patients with head and neck cancer: a feasibility study including the EORTC QLQ–C30. Hammerlid E, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):666–73

Case report of primary squamous carcinoma of the rectum. Martinez–Gonzalez MD, et al. **Rev Invest Clin** 1996 Nov–Dec;48(6):453–6

Squamous–cell carcinoma of the lower lip: a retrospective study of 58 patients. dos Santos LR, et al. **Rev Paul Med** 1996 Mar–Apr;114(2):1117–26

[Intestinal metastases of bronchopulmonary cancer. Apropos of a case] Kabwa L, et al. **J Chir (Paris)** 1996 Sep; 133(6):290–3 (14 ref.) (Eng. Abstr.) **(Fre)**

[Primary carcinoma of the female urethra: report of five cases] Touyama H, et al. **Hinyokika Kiyo** 1997 Apr; 43(4):303–5 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of grade 3 superficial bladder cancer] Shinohara M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Jun;87(6):892–9 (Eng. Abstr.) **(Jpn)**

[Renal pelvic tumor (transitional cell carcinoma, squamous cell carcinoma, adenocarcinoma, etc.)] Matsuki K, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):466–70 (15 ref.) **(Jpn)**

[Primary multiple metachronous cancer of the larynx and lung with metastasis to the radius] Klochikin AL, et al. **Vestn Otorinolaringol** 1996 Jul–Aug;(4):51–2 **(Rus)**

[A case of peripheral cancer of the lung] Shlenova LA. **Vestn Rentgenol Radiol** 1997 Mar–Apr;(2):39–40 **(Rus)**

[Epidermoid carcinoma of the penis. Review of 30 cases] Fernández Gómez JM, et al. **Arch Esp Urol** 1997 Apr; 50(3):243–52 (20 ref.) (Eng. Abstr.) **(Spa)**

[Association of esophageal carcinoma and previous upper airways and digestive neoplasm (letter)] de Castro Carpeño J, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):277 **(Spa)**

[KI–1–positive, anaplastic, large–cell lymphoma related to Hodgkin's disease] Veiga M, et al. **Sangre (Barc)** 1997 Feb; 42(1):81–4 (Eng. Abstr.) **(Spa)**

BLOOD

Parathyroid hormone–related protein in an esophageal squamous cell carcinoma with tumor–induced hypercalcemia. Jaïs P, et al. **Am J Gastroenterol** 1997 Feb; 92(2):343–6 (19 ref.)

Cyfra 21–1 in monitoring cervical cancer: a comparison with tissue polypeptide antigen and squamous cell carcinoma antigen. Bonfrer JM, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2329–34

CYFRA 21–1 is not superior to SCC antigen and CEA in head and neck squamous cell cancer. Wollenberg B, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3117–24

Rising serum values of beta–subunit human chorionic gonadotrophin (hCG) in patients with progressive vulvar carcinomas. de Bruijn HW, et al. **Br J Cancer** 1997; 75(8):1217–8

Preoperative CYFRA 21–1 level as a prognostic indicator in resected primary squamous cell lung cancer. Niklinski J, et al. **Br J Cancer** 1996 Sep;74(6):956–60

Risk of squamous cell carcinoma of the skin in relation to plasma selenium, alpha–tocopherol, beta–carotene, and retinol: a nested case–control study. Karagas MR, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jan;6(1):25–9

Retroviral p15E–related serum factors and recurrence of head and neck cancer. Tas MP, et al. **Clin Otolaryngol** 1993 Aug;18(4):324–8

Circulating markers in squamous cell carcinoma of the head and neck: a review. Rassekh CH, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):23–8 (63 ref.)

Tumour marker detection in oesophageal carcinoma. Mealy K, et al. **Eur J Surg Oncol** 1996 Oct;22(5):505–7

Serum levels of cytokeratin 19 fragments in cervical cancer. Nasu K, et al. **Gynecol Obstet Invest** 1996;42(4):267–70

Prognostic significance of pretreatment squamous cell carcinoma antigen and carcinoembryonic antigen in squamous cell carcinoma of the uterine cervix. Bae SN, et al. **Gynecol Oncol** 1997 Mar;64(3):418–24

Prognostic value of preoperative squamous cell carcinoma antigen level in patients surgically treated for cervical carcinoma. Bolger BS, et al. **Gynecol Oncol** 1997 May; 65(2):309–13

Antibody levels against alpha–galactosyl epitopes in sera of patients with squamous intraepithelial lesions and early invasive cervical carcinoma. Tremont–Lukats IW, et al. **Gynecol Oncol** 1997 Feb;64(2):207–12

Detection of MAGE–4 protein in sera of patients with head–and–neck squamous–cell carcinoma. Iwamoto O, et al. **Int J Cancer** 1997 Jan 27;70(3):287–90

Detection of squamous–cell carcinoma antigen–expressing tumour cells in blood by reverse transcriptase–polymerase chain reaction in cancer of the uterine cervix. Stenman J, et al. **Int J Cancer** 1997 Feb 20;74(1):75–80

Prognostic value of hemoglobin concentration in radiotherapy for cancer of supraglottic larynx. Tarnawski R, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15; 38(5):1007–11

Study of a new tumor marker, CYFRA 21–1, in squamous cell carcinoma of the cervix, and comparison with squamous cell carcinoma antigen. Tsai SC, et al. **Neoplasma** 1996;43(1):27–9

Evaluation of TATI and CYFRA 21–1 in patients with head and neck squamous cell carcinoma. Goumas PD, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):106–14

Serum levels of intercellular adhesion molecule–1 in squamous cell carcinoma of the head and neck. Wollenberg B, et al. **Tumour Biol** 1997;18(2):88–94

[Serum dihydrotestosterone versus total testosterone values of patients with laryngeal carcinomas and chronic laryngitis] Kleemann D, et al. **Laryngorhinootologie** 1996 Jun;75(6):351–5 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

Dynamic contrast measurements in rodent model tumors. Kovar DA, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S384–6

Transvaginal color Doppler ultrasound for monitoring the response to neoadjuvant chemotherapy in advanced cervical cancer. Greco P, et al. **Acta Obstet Gynecol Scand** 1997 Feb;76(2):169–72

Coexpression of VEGF and bFGF in human epidermoid lung carcinoma is associated with increased vessel density. Mattern J, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2249–52

Assessment of angiogenesis in human cervical lesions. Ravazoula P, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3861–4

The tumour stroma of oral squamous cell carcinomas show increased vascularity compared with adjacent host tissue. Dunstan S, et al. **Br J Cancer** 1997;75(4):559–65

Oxygen tension and vascular density in human cervix carcinoma. Lyng H, et al. **Br J Cancer** 1996 Nov; 74(10):1559–63

Tumor vascularization, mitotic index, histopathologic grade, and DNA ploidy in the assessment of 114 head and neck squamous cell carcinomas. Klijanienko J, et al. **Cancer** 1995 Apr 1;75(7):1649–56

Tumor vascularity correlates with the prognosis of patients with esophageal squamous cell carcinoma. Tanigawa N, et al. **Cancer** 1997 Jan 15;79(2):220–5

Influence of microvessel density and vascular permeability factor/vascular endothelial growth factor expression on prognosis in vulvar cancer. Obermair A, et al. **Gynecol Oncol** 1996 Nov;63(2):204–9

Tumor angiogenesis in T1 oral cavity squamous cell carcinoma: role in predicting tumor aggressiveness. Gleich LL, et al. **Head Neck** 1996 Jul–Aug;18(4):343–6

Tumor angiogenesis as a prognostic indicator in T2–T4 oral cavity squamous cell carcinoma: a clinical–pathologic correlation. Gleich LL, et al. **Head Neck** 1997 Jul; 19(4):276–80

Tumor perfusion studies using fast magnetic resonance imaging technique in advanced cervical cancer: a new

noninvasive predictive assay. Mayr NA, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):623–33

Differences in tumor microvessel density between squamous cell carcinomas and basal cell carcinomas may relate to their different biologic behavior. Weninger W, et al. **J Cutan Pathol** 1997 Jul;24(6):364–9

Tumor invasion and angiogenesis in early esophageal squamous cell carcinoma. Kuwano H, et al. **J Surg Oncol** 1997 Jul;65(3):188–93

Evaluation of angiogenic inhibitors with an in vivo quantitative angiogenesis method using agarose microencapsulation and mouse hemoglobin enzyme-linked immunosorbent assay. Okada N, et al. **Jpn J Cancer Res** 1996 Sep;87(9):952–7

Inhibition of squamous cell carcinoma angiogenesis by direct interaction of retinoic acid with endothelial cells. Lingen MW, et al. **Lab Invest** 1996 Feb;74(2):476–83

Angiogenesis in squamous cell carcinoma in situ and microinvasive carcinoma of the uterine cervix [see comments] Abulafia O, et al. **Obstet Gynecol** 1996 Dec; 88(6):927–32. Comment in: Obstet Gynecol 1997 Mar;89(3):482–3.

Angiogenesis in squamous cell carcinoma in situ and microinvasive carcinoma of the uterine cervix [letter; comment] Smith-McCune K. **Obstet Gynecol** 1997 Mar; 89(3):482–3. Comment on: Obstet Gynecol 1996 Dec;88(6):927–32.

Angiogenesis and expression of platelet-derived endothelial cell growth factor in oral squamous cell carcinoma. Alcalde RE, et al. **Oncology** 1997 Jul–Aug;54(4):324–8

Tumour blood flow influences combined radiation and doxorubicin treatments. Durand RE, et al. **Radiother Oncol** 1997 Feb;42(2):171–9

Immunohistochemical studies of vascular volume and proliferative activity in squamous cell carcinoma of the esophagus. Koide N, et al. **Surg Today** 1997;27(2):99–106

CHEMICALLY INDUCED

Flare-up of squamous cell carcinoma of the skin following fludarabine therapy for chronic lymphocytic leukemia. Davidovitz Y, et al. **Acta Haematol** 1997;98(1):44–6

A modified method of carcinogenesis induction in the DMBA hamster cheek pouch model of squamous neoplasia. Heller B, et al. **Am J Surg** 1996 Dec;172(6):678–80

Case-control study of oestrogen replacement therapy and risk of cervical cancer. Parazzini F, et al. **BMJ** 1997 Jul 12;315(7100):85–8

A follow-up study of progression from dysplasia to squamous cell carcinoma with immunohistochemical examination of p53 protein overexpression in the bronchi of ex-chromate workers. Satoh Y, et al. **Br J Cancer** 1997;75(5):678–83

Multiple squamous cell carcinomas in a psoriatic patient following high-dose photochemotherapy and cyclosporin treatment: response to long-term acitretin maintenance. van de Kerkhof PC, et al. **Br J Dermatol** 1997 Feb;136(2):275–8

Chemical exposures, medical history, and risk of squamous and basal cell carcinoma of the skin. Gallagher RP, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):419–24

Susceptibility of 129/SvEv mice in two-stage carcinogenesis protocols to 12-O-tetradecanoylphorbol-13-acetate promotion. Reiners JJ Jr, et al. **Carcinogenesis** 1997 Mar; 18(3):593–7

Transforming growth factor beta 1 supports autonomous growth of human papillomavirus-immortalized cervical keratinocytes under conditions promoting squamous differentiation. Woodworth CD, et al. **Cell Growth Differ** 1996 Jun;7(6):811–20

Squamous cell carcinoma of the scrotum. Taniguchi S, et al. **Dermatology** 1996;193(3):253–4

Cystic squamous cell carcinomas in the lungs of Syrian golden hamsters induced by coal oven flue exhaust mixed with pyrolized tar pitch in combination with benzo(a)pyrene. Rittinghausen S, et al. **Exp Toxicol Pathol** 1997 Feb;49(1-2):11–4

Epithelial dysplasia and squamous cell carcinoma of the Wistar rat palatal mucosa: 4NQO model. Nauta JM, et al. **Head Neck** 1996 Sep–Oct;18(5):441–9

Follow your nose. Reed C. **Hum Exp Toxicol** 1996 Nov; 15(11):920–1

Sequential expression of placental glutathione S-transferase (GST-P) during DMBA-induced hamster buccal pouch squamous cell carcinogenesis. Chen YK, et al. **J Oral Pathol Med** 1996 Aug;25(7):388–94

New strains of inbred SENCAR mice with increased susceptibility to induction of papillomas and squamous cell carcinomas in skin. Hennings H, et al. **Mol Carcinog** 1997 Sep;20(1):143–50

Evidence that mirex promotes a unique population of epidermal cells that cannot be distinguished by their mutant Ha-ras genotype. Kim TW, et al. **Mol Carcinog** 1997 Sep; 20(1):115–24

Consistent allelic loss on mouse chromosome 7 distal to tyrosinase in 4-nitroquinoline-1-oxide-induced oral cavity tumors with loss of heterozygosity at Ha-ras-1. Yuan B, et al. **Mol Carcinog** 1997 May;19(1):8–16

Digestive tract neoplasms among employees with past exposure to brominated dioxins [letter; comment] Zober A, et al. **Occup Environ Med** 1997 Jan;54(1):66. Comment on: Occup Environ Med 1996 Dec;53(12):844–6.

Experimental tongue cancer in desalivated rats. Dayan D, et al. **Oral Oncol** 1997 Mar;33(2):105–9

[Squamous epithelial carcinoma of the tongue after occupational exposure to chromium VI compounds] Tisch M, et al. **Laryngorhinootologie** 1996 Aug;75(8):455–8 (Eng. Abstr.) **(Ger)**

[Epidemiology of lung cancer in former poison-gas workers and molecular approaches to lung cancer] Yamakido M. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:8–12 (11 ref.) (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Aspiration cytology of glycogen-rich squamous cell carcinoma: significance of a tigroid smear background [letter] Dusenbery D. **Acta Cytol** 1997 May-Jun; 41(3):941–2

Abnormal desmoglein expression by squamous cell carcinoma cells. Harada H, et al. **Acta Derm Venereol** 1996 Nov; 76(6):417–20

High serum SCC antigen levels in two patients with ovarian cancer. Yamada T, et al. **Acta Obstet Gynecol Scand** 1997 Mar;76(3):283–5

Epidermal growth factor receptor, c-erbB-2 and p53 overexpressions in epithelial hyperplastic lesions of the larynx. Gale N, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 527:105–10

Expression of ER-D5 and EGFr in laryngeal carcinoma and pre-malignant epithelium. Maiorano E, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:95–9

C-erbB-2 [correction of C-erB] in cervical carcinoma [letter; comment] Langlois NE, et al. **Am J Clin Pathol** 1996 Oct; 106(4):556–7. Comment on: Am J Clin Pathol 1995 Dec;104(6):634–42.

A topographic study on the distribution of cisplatin in xenografted tumors on nude mice. Johnsson A, et al. **Anticancer Drugs** 1996 Jan;7(1):70–7

Proliferating cell nuclear antigen (PCNA) and p53 in epithelial dysplasia and squamous cell carcinoma of oral mucosa--a marker for poor tumor differentiation, increasing nuclear atypia and invasiveness? Lan HA, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3059–65

High rate of p53 overexpression in head and neck carcinomas detected with a refined ELISA. Maass JD, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):473–8

Intracellular localization of tenascin in squamous cell carcinoma of oral cavity: an immunohistochemical study. Mori M, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3075–9

Squamoid features and expression of involucrin in primary breast carcinoma associated with high histological grade, tumour cell necrosis and recurrence sites. Tsuda H, et al. **Br J Cancer** 1997;75(10):1519–24

Increased level of c-erbB-2/neu/HER-2 protein in cutaneous squamous cell carcinoma. Ahmed NU, et al. **Br J Dermatol** 1997 Jun;136(6):908–12

Intracellular expression of type VII collagen in squamous cell carcinoma complicating dystrophic epidermolysis bullosa [letter] Kanitakis J, et al. **Br J Dermatol** 1997 Aug; 137(2):310–3

Expression of retinoic acid receptors in normal, dysplastic and malignant oral epithelia. Sherman JA, et al. **Br J Oral Maxillofac Surg** 1997 Aug;35(4):260–6

p53 protein overexpression is common and independent of human papillomavirus infection in squamous cell carcinoma of the vulva. Kagie MJ, et al. **Cancer** 1997 Oct 1; 80(7):1228–33

p53 expression in multicentric squamous cell carcinoma and surrounding squamous epithelium of the upper aerodigestive tract. Immunohistochemical analysis of 95 lesions. Nakanishi Y, et al. **Cancer** 1995 Apr 1;75(7):1657–62

Prognostic value of p53 protein expression in squamous cell carcinoma of the esophagus. Monges GM, et al. **Cancer Detect Prev** 1996;20(1):63–7

AT1 angiotensin II receptor subtype in the human larynx and squamous laryngeal carcinoma. Marsigliante S, et al. **Cancer Lett** 1996 Dec 20;110(1-2):19–27

Identification of cytokeratin subspecies altered in rat experimental esophageal tumors by subtractive cloning. Wang DY, et al. **Cancer Lett** 1996 Nov 12;108(1):119–27

Evaluation of glycogen level in human lung carcinoma tissues by an infrared spectroscopic method. Yano K, et al. **Cancer Lett** 1996 Dec 20;110(1-2):29–34

Use of the comet assay to identify cells sensitive to tirapazamine in multicell spheroids and tumors in mice. Olive PL, et al. **Cancer Res** 1996 Oct 1;56(19):4460–3

Proteome profiling of bladder squamous cell carcinomas: identification of markers that define their degree of differentiation. Ostergaard M, et al. **Cancer Res** 1997 Sep 15;57(18):4111–7

The significance of epidermal growth factor receptor and matrix metalloproteinase-3 in squamous cell carcinoma of the oral cavity. Kusukawa J, et al. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):217–21

Immunohistochemical detection of p53 and c-erbB-2 in oesophageal carcinoma; no correlation with prognosis. Hardwick RH, et al. **Eur J Surg Oncol** 1997 Feb;23(1):30–5

Evaluation of laminin and cytokeratin-10 expression in squamous cell carcinoma of the skin. Osiecka BJ, et al. **Folia Histochem Cytobiol** 1997;35(2):121–2

Prognostic significance of immunohistochemically detected p53 protein expression in stage IIIB squamous cell carcinoma of the uterine cervix treated with radiation therapy alone. Ebara T, et al. **Gynecol Oncol** 1996 Nov; 63(2):216–8

Influence of microvessel density and vascular permeability factor/vascular endothelial growth factor expression on prognosis in vulvar cancer. Obermair A, et al. **Gynecol Oncol** 1996 Nov;63(2):204–9

Polarographic measurement of pO2 in cervix carcinoma. Sundfør K, et al. **Gynecol Oncol** 1997 Feb;64(2):230–6

Aberrant glycosylation based on the neo-expression of poly-N-acetyllactosamine structures in squamous cell carcinomas of the head and neck. Yokota M, et al. **Histochem J** 1997 Jul;29(7):555–62

Purification of a tumoral marker recognized by monoclonal antibody Po66 and associated with human lung squamous cell carcinoma. Brichory F, et al. **Int J Biol Markers** 1996 Jul–Sep;11(3):148–52

ELISA for complexes between urokinase-type plasminogen activator and its receptor in lung cancer tissue extracts. de Witte H, et al. **Int J Cancer** 1997 Jul 29;72(3):416–23

p53 protein overexpression, a frequent observation in squamous cell carcinoma of the vulva and in various synchronous vulvar epithelia, has no value as a prognostic parameter. Kagie MJ, et al. **Int J Gynecol Pathol** 1997 Apr; 16(2):124–30

Predictive value of the flow cytometric PCNA assay (proliferating cell nuclear antigen) in head and neck tumors after accelerated-hyperfractionated radiochemotherapy. Wenz F, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):771–6

p53 expression and cell proliferation as prognostic factors in laryngeal squamous cell carcinoma. Hirvikoski P, et al. **J Clin Oncol** 1997 Sep;15(9):3111–20

Markers of radioresistance in squamous cell carcinomas of the head and neck: a clinicopathologic and immunohistochemical study. Raybaud-Diogène H, et al. **J Clin Oncol** 1997 Mar;15(3):1030–8

Human papillomavirus DNA and antibodies to human papillomaviruses 16 E2, L2, and E7 peptides as predictors of survival in patients with squamous cell cervical cancer. Viladiu P, et al. **J Clin Oncol** 1997 Feb;15(2):610–9

Immunohistochemical detection of p21WAF1/CIP1 and p53 proteins in formalin-fixed paraffin-embedded tissue sections of squamous cell carcinoma of the skin. Matsuta M, et al. **J Dermatol Sci** 1997 Mar;14(3):233–9

Identification of novel cadherins expressed in human melanoma cells. Matsuyoshi N, et al. **J Invest Dermatol** 1997 Jun;108(6):908–13

Keratin 14 and 19 expression in normal, dysplastic and malignant oral epithelia. A study using in situ hybridization and immunohistochemistry. Su L, et al. **J Oral Pathol Med** 1996 Jul;25(6):293–301

Aberrant expression of a hemidesmosomal protein, bullous pemphigoid antigen 2, in human squamous cell carcinoma. Yamada T, et al. **Lab Invest** 1996 Oct;75(4):589–600

Proliferating cell nuclear antigen (PCNA) expression in oral squamous cell carcinoma - an aid to conventional histological grading? Zain RB, et al. **Malays J Pathol** 1995 Jun;17(1):23–30

Expression of E-cadherin, alpha-catenin, beta-catenin and plakoglobin in esophageal carcinomas and its prognostic significance: immunohistochemical analysis of 96 lesions. Nakanishi Y, et al. **Oncology** 1997 Mar–Apr;54(2):158–65

RT-PCR investigation of fibronectin mRNA isoforms in malignant, normal and reactive oral mucosa. Mighell AJ, et al. **Oral Oncol** 1997 May;33(3):155–62

p53 over-expression in laryngeal carcinoma is not predictive of response to radiotherapy. Tan LK, et al. **Oral Oncol** 1997 May;33(3):177–81

Molecular and immunohistochemical study of class I growth factor receptors in squamous cell lung carcinomas. Gorgoulis V, et al. **Pathol Res Pract** 1995 Oct; 191(10):973–81

Expression of proliferation-associated antigens in cervical carcinoma: correlations among indexes. Oka K, et al. **Pathol Res Pract** 1995 Oct;191(10):997–1003

Epidermal growth factor receptor immunoreactivity in human laryngeal squamous cell carcinoma. Lee CS, et al. **Pathology** 1997 Aug;29(3):251–4

An immunohistochemical study of p53 protein in cervical intraepithelial neoplasia and squamous cell carcinoma. Raju GC, et al. **Pathology** 1996 Jan;28(1):17–19

[Prognostic value of flow cytometry in squamous cell bronchogenic cancer. A retrospective study of 61 cases] Jeanfaivre T, et al. **Bull Cancer** 1997 Jun;84(6):597–602 (Eng. Abstr.) **(Fre)**

[Quantitative studies of the kallikrein-prokallikrein system in mixed saliva in oral squamous epithelial carcinoma] Meyer P, et al. **HNO** 1997 Jan;45(1):7–10 (Eng. Abstr.) **(Ger)**

[Cytokeratin and vimentin expression in laryngeal squamous cell carcinoma] Cavicchi O, et al. **Acta Otorhinolaryngol Ital** 1996 Oct;16(5):420–7 (Eng. Abstr.) **(Ita)**

[Analysis of nuclear matrix protein in human lung cancer cells] Yamazaki H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):401–2 **(Jpn)**

[Immunohistochemical study of cytokeratin and vimentin expression in mixed type of adenocarcinoma and squamous cell carcinoma] Yuasa T. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Oct; 48(10):867–74 (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Detection and classification of early squamous cell esophageal cancer. Endo M, et al. **Dis Esophagus** 1997 Jul;

10(3):155–8

COMPLICATIONS

Dermatomyositis and bronchial squamous cell carcinoma: evidence for a true relationship. el Khawand C, et al. **Acta Clin Belg** 1996;51(4):271–4

Micro-invasive squamous cell carcinoma arising in a pre-existing intraventricular epidermoid cyst. Case report and literature review. Bayindir C, et al. **Acta Neurochir (Wien)** 1996;138(8):1008–12

Squamous cell carcinoma associated with verruciform xanthoma of the penis. Takiwaki H, et al. **Am J Dermatopathol** 1996 Oct;18(5):551–4

Squamous cell carcinoma in a thyroglossal duct cyst (TGDC): clinical presentation, diagnosis, and management. Hanna E. **Am J Otolaryngol** 1996 Sep–Oct;17(5):353–7 (9 ref.)

Inverted papilloma associated with squamous cell carcinoma and adenocarcinoma: case report and review of the literature. Kerschner JE, et al. **Am J Otolaryngol** 1996 Jul–Aug;17(4):257–9

Papillary thyroid carcinoma associated with squamous cell carcinoma of the head and neck: significance and treatment [clinical conference] Pitman KT, et al. **Am J Otolaryngol** 1996 May–Jun;17(3):190–6

Simultaneous squamous cell carcinoma of the head and neck and reticuloendothelial malignancies. Stack BC Jr, et al. **Am J Otolaryngol** 1996 May–Jun;17(3):178–83

Fanconi's anaemia and recurrent squamous cell carcinoma of the oral cavity: a case report. Koo WH, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):289–92 (26 ref.)

Endovascular management of hemorrhage in patients with head and neck cancer. Morrissey DD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):15–9

An unusual case of carcinoma polyarthritis with associated vasculitis. Madiedo JM, et al. **Arthritis Rheum** 1997 Apr; 40(4):779–82

Incarcerated procidentia: a rare complication of carcinoma cervix. Kriplani A, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):463–4

Squamous cell carcinoma arising in chronic lymphoedema. Lister RK, et al. **Br J Dermatol** 1997 Mar;136(3):384–7 (19 ref.)

Squamous cell carcinoma of the scalp following a chemical burn and chronic discoid lupus erythematosus [letter] Onayemi O, et al. **Br J Dermatol** 1996 Aug;135(2):342–3

Squamous cell carcinoma arising in a para-urethral cyst. Barua JM, et al. **Br J Urol** 1997 Jul;80(1):158–9

Tumor-induced hypercalcemia and parathyroid hormone-related protein in lung carcinoma. Takai E, et al. **Cancer** 1996 Oct 1;78(7):1384–7

The relationship of human papillomavirus-related cervical tumors to cigarette smoking, oral contraceptive use, and prior herpes simplex virus type 2 infection. Daling JR, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):541–8

Onycholysis associated with carcinoma of the lung [letter] Cliff S, et al. **Clin Exp Dermatol** 1996 May;21(3):244

The under-reporting of skin disease in association with squamous cell carcinoma of the vulva. Zaki I, et al. **Clin Exp Dermatol** 1996 Sep;21(5):334–7

Epidermoid anal cancer in HIV infected patients. Bottomley DM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(5):319–22

Tracheostomy and radiotherapy in the management of laryngeal carcinoma causing airway obstruction. Dawes PJ, et al. **Clin Oncol (R Coll Radiol)** 1997;9(2):115–8

Sweet's syndrome and malignancy: a case associated with multiple oral squamous-cell carcinoma [letter] Giménez-Arnau A, et al. **Dermatology** 1996;193(2):154–5

Epidermolysis bullosa dystrophica of Hallopeau-Siemens and squamous-cell carcinoma: a case report. Van Rengen A, et al. **Dermatology** 1996;192(4):418–9

Multiple fistulas and tracheobronchial stenoses require extensive stenting of the central airways and esophagus in squamous-cell carcinoma. Witt C, et al. **Endoscopy** 1996 May;28(4):381–5

Transcatheter arterial embolization for the control of life-threatening pelvic hemorrhage in a patient with locally advanced cervix carcinoma. Lin YC, et al. **Eur J Gynaecol Oncol** 1996;17(6):480–3 (12 ref.)

Rapidly progressive squamous cell carcinoma of the cervix in a patient with acquired immunodeficiency syndrome: case report. Saccucci P, et al. **Eur J Gynaecol Oncol** 1996; 17(4):306–8

Association of risk factors for cervical cancer and human papilloma viruses in invasive cervical cancer. Uršič-Vrščaj M, et al. **Eur J Gynaecol Oncol** 1996;17(5):368–71

Management of a refractory benign esophageal stricture with a new biodegradable stent. Fry SW, et al. **Gastrointest Endosc** 1997 Feb;45(2):179–82 (12 ref.)

Prior radiation and chemotherapy increase the risk of life-threatening complications after insertion of metallic stents for esophagogastric malignancy [see comments] Kinsman KJ, et al. **Gastrointest Endosc** 1996 Mar; 43(3):196–203. Comment in: Gastrointest Endosc 1996 Mar;43(3):258–60.

A cervical teratoma with invasive squamous cell carcinoma in an HIV-infected patient: a case report. Bell MC, et al. **Gynecol Oncol** 1996 Mar;60(3):475–9

Invasive vulvar carcinoma in two women infected with human immunodeficiency virus. Wright TC, et al. **Gynecol Oncol** 1996 Mar;60(3):500–3

Postoperative aggravation of hypercalcemia-leukocytosis syndrome in a case of squamous cell type cholangiocarcinoma [letter] Aizawa M, et al. **Intern Med** 1997 Mar;36(3):232

Laparoscopic ligation of hypogastric arteries using the Hulka clip to arrest massive vaginal bleeding due to stage IIb cervical carcinoma. Gassibe EF, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb;4(2):259–61

Leukemoid reaction in epidermal squamous cell carcinoma. Kiyosawa T, et al. **J Dermatol** 1996 Aug;23(8):539–44

Thyroid carcinoma causing fatal laryngeal occlusion. Carter N, et al. **J Laryngol Otol** 1996 Dec;110(12):1176–8

Squamous cell carcinoma of the pharynx and larynx presenting as a neck abscess or cellulitis. Lee WC, et al. **J Laryngol Otol** 1996 Sep;110(9):893–5

Prevalence of single and multiple infection with human papillomaviruses in various grades of cervical neoplasia. Chang DY, et al. **J Med Microbiol** 1997 Jan;46(1):54–60

Acute tumor pain in patients with head and neck cancer treated with vinorelbine [letter] Kornek GV, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1593

Effects of bisphosphonate (pamidronate) on bone resorption resulting from metastasis of a squamous cell carcinoma: report of an autopsy case and evaluation of bone resorbing activity in an experimental animal model. Hiraga T, et al. **J Oral Maxillofac Surg** 1996 Nov;54(11):1327–33

Histomorphometric analysis of osteoclastic resorption in bone directly invaded by gingival squamous cell carcinoma. Semba I, et al. **J Oral Pathol Med** 1996 Sep;25(8):429–35

Panurothelial condyloma acuminatum with development of squamous cell carcinoma of the bladder and renal pelvis. Brüske T, et al. **J Urol** 1997 Feb;157(2):620–1

Re: Psoriasis: association with 2 rare cutaneous urological malignancies [letter] Cold CJ, et al. **J Urol** 1997 Oct; 158(4):1527–8

Psoriasis: association with 2 rare cutaneous urological malignancies. Loughlin KR. **J Urol** 1997 Feb;157(2):622–3

Hypercalcemia and carcinoma of the penis. Videtic GM, et al. **Med Pediatr Oncol** 1997 Dec;29(6):576–7

Chorea resulting from paraneoplastic encephalitis. Heckmann JG, et al. **Mov Disord** 1997 May;12(3):464–6

Development of squamous cell carcinoma in hepatitis C virus-associated lichen planus. Porter SR, et al. **Oral Oncol** 1997 Jan;33(1):58–9

Malignant esophageal fistulas and perforations: management with plastic-covered metallic endoprostheses. Morgan RA, et al. **Radiology** 1997 Aug;204(2):527–32

Tuberculous meningitis in patients with nasopharyngeal carcinoma. Tang LM, et al. **Scand J Infect Dis** 1996; 28(2):195–6

Oesophageal squamous cell carcinoma after gastrectomy for benign ulcer disease. Hsu NY, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(1):29–33

[An analysis of ocular manifestations in cases with tumors of accessory nasal sinuses] Wei S, et al. **Chung Hua Yen Ko Tsa Chih** 1995 Jul;31(4):280–1 (Eng. Abstr.) **(Chi)**

[Actinomyces meyeri disseminated actinomycosis disclosing pulmonary carcinoma] Chaumentin G, et al. **Rev Med Interne** 1997 Jul;18(7):563–5 (15 ref.) (Eng. Abstr.) **(Fre)**

[Synchronous bronchial cancers disclosed by Pierre Marie Bamberger syndrome and Schwartz-Bartter syndrome (letter)] Bour-Guichenez G, et al. **Rev Pneumol Clin** 1996; 52(4):263–4 **(Fre)**

[Esophageal carcinoma presenting as fever of unknown origin] Naimer S, et al. **Harefuah** 1997 Mar 2;132(5):333, 383 (Eng. Abstr.) **(Heb)**

[An unusual location of sporotrichosis in a subject with a carcinoma (letter)] Ronchetto F, et al. **Recenti Prog Med** 1997 May;88(5):226–7 **(Ita)**

[Self-expanding nitinol stents for treatment of tracheobronchial and esophageal stenosis caused by lung cancer] Muro K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec; 44(12):2205–11 (Eng. Abstr.) **(Jpn)**

[Esophagobronchial fistula and empyema resulting from esophageal carcinoma] Hippo Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):583–7 (Eng. Abstr.) **(Jpn)**

[Thymic carcinoma associated with pulmonary sarcoidosis] Ohmichi M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):571–6 (Eng. Abstr.) **(Jpn)**

[Implantation of cervix neoplasms in the right heart ventricle as the cause of chronic pulmonary embolism] Chudyba J, et al. **Pneumonol Alergol Pol** 1996;64(7–8):455–61 (Eng. Abstr.) **(Pol)**

[Chylothorax in the course of squamous cell lung cancer] Witt M, et al. **Pneumonol Alergol Pol** 1997;65(5–6):370–3 (Eng. Abstr.) **(Pol)**

[Acute abdomen of urologic origin] Estrada Saiz RV, et al. **Actas Urol Esp** 1996 Jul–Aug;20(7):662–3 (Eng. Abstr.) **(Spa)**

[Symptomatic treatment of a tracheogastric neoplastic fistula with an intragastric autoexpandable prosthesis (letter)] De Tomás Palacios J, et al. **Rev Esp Enferm Dig** 1996 Oct; 88(10):712–3 **(Spa)**

[Subacute combined degeneration of the spinal cord: manifestations of esophageal epidermoid carcinoma] Madrid A, et al. **Rev Neurol** 1997 Jul;25(143):1098–101 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Cervical carcinoma: role of imaging. Yu KK, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):208–15 (50 ref.)

Comparison of the CytoRich system with conventional cervical cytology. Preliminary data on 2,032 cases from a clinical trial site. Bishop JW. **Acta Cytol** 1997 Jan–Feb; 41(1):15–23

Consistency of a double PAPNET scan of cervical smears. Jenny J, et al. **Acta Cytol** 1997 Jan–Feb;41(1):82–7

The ThinPrep Pap test. A review of clinical studies. Linder J, et al. **Acta Cytol** 1997 Jan–Feb;41(1):30–8 (22 ref.)

Comparison of the sensitivity of sputum and brush cytology in the diagnosis of lung carcinomas. Sing A, et al. **Acta Cytol** 1997 Mar–Apr;41(2):399–408 (67 ref.)

Clinical trials of the CytoRich specimen-preparation device for cervical cytology. Preliminary results. Wilbur DC, et al. **Acta Cytol** 1997 Jan–Feb;41(1):24–9

Differential expression of desmosomal glycoproteins in keratoacanthoma and squamous cell carcinoma of the skin: an immunohistochemical aid to diagnosis [published erratum appears in Acta Derm Venereol 1996 Nov;76(6):504] Krunic AL, et al. **Acta Derm Venereol** 1996 Sep;76(5):394–8

High serum SCC antigen levels in two patients with ovarian cancer. Yamada T, et al. **Acta Obstet Gynecol Scand** 1997 Mar;76(3):283–5

The role of FDG-PET in the preoperative assessment of N-staging in head and neck cancer. Benchaou M, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):332–5

Significance of autofluorescence for the optical demarcation of field cancerisation in the upper aerodigestive tract. Fryen A, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):316–9

Syndecan-1: a new prognostic marker in laryngeal cancer. Pulkkinen JO, et al. **Acta Otolaryngol (Stockh)** 1997 Mar; 117(2):312–5

Relationship between head and neck squamous cell carcinomas and fibrinolytic factors. Immunohistological study. Itaya T, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:113–9

Lingual carcinoma. Correlation of MR imaging with histopathological findings. Arakawa A, et al. **Acta Radiol** 1996 Sep;37(5):700–7

Proton MR spectroscopy of squamous cell carcinoma of the extracranial head and neck: in vitro and in vivo studies. Mukherji SK, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul; 18(6):1057–72

Proton MR spectroscopy of squamous cell carcinoma of the upper aerodigestive tract: in vitro characteristics. Mukherji SK, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1485–90

C-erbB-2 [correction of C-erB] in cervical carcinoma [letter; comment] Langlois NE, et al. **Am J Clin Pathol** 1996 Oct; 106(4):556–7. Comment on: Am J Clin Pathol 1995 Dec;104(6):634–42.

Esophageal carcinoma presenting with nephrotic syndrome: association with anti-neutrophil cytoplasmic antibody. Yedidag A, et al. **Am J Gastroenterol** 1997 Feb;92(2):326–8 (20 ref.)

Fluorescence imaging and spectroscopy of 5-aminolevulinic acid induced protoporphyrin IX for the detection of neoplastic lesions in the oral cavity. Leunig A, et al. **Am J Surg** 1996 Dec;172(6):674–7

Validation and clinical application of computer-combined computed tomography and positron emission tomography with 2-[18F]fluoro-2-deoxy-D-glucose head and neck images. Wong WL, et al. **Am J Surg** 1996 Dec; 172(6):628–32

Cystic nodal metastasis in occult tonsil carcinoma--a case report. Soh KB, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):752–4 (16 ref.)

Therapeutic and imaging capacity of tumor-localizing radiosensitive Mn-porphyrin on SCCVII tumor-bearing C3H/He mice. Nakajima S, et al. **Anticancer Drugs** 1997 Apr;8(4):386–90

Women's triage and management preferences for cervical cytologic reports demonstrating atypical squamous cells of undetermined significance and low-grade squamous intraepithelial lesions. Ferris DG, et al. **Arch Fam Med** 1997 Jul–Aug;6(4):348–53

Nuclear matrix proteins as malignant markers in squamous cell carcinoma of the head and neck. McCaffery JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Mar; 123(3):283–8

The utility of cytokeratin profiles for detecting oral cancer using exfoliative cytology. Ogden GR, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):461–6

Squamous cell carcinoma of the perionychium. Kuschner SH, et al. **Bull Hosp Jt Dis** 1997;56(2):111–2

Cardiac metastasis from primary cervical squamous cell carcinoma: three case reports and a review of the literature. Batchelor WB, et al. **Can J Cardiol** 1997 Aug;13(8):767–70

Basaloid squamous cell carcinoma of the esophagus: diagnosis and prognosis. Sarbia M, et al. **Cancer** 1997 May 15; 79(10):1871–8

DNA content and thymidine labeling index correlate with prognosis in squamous cell carcinoma of the larynx. Matturri L, et al. **Cancer Detect Prev** 1997;21(4):319–25

Fluorescence photography as a diagnostic method for oral cancer. Onizawa K, et al. **Cancer Lett** 1996 Nov 12; 108(1):61–6

Images in cardiovascular medicine: complete heart block. Reisinger J, et al. **Circulation** 1997 Aug 19;96(4):1364

Diagnosis of nonmelanoma skin cancer. Brodland DG.

Clin Dermatol 1995 Nov-Dec;13(6):551-7 (6 ref.)
Etiology and pathogenesis of basal cell carcinoma. Miller SJ. **Clin Dermatol** 1995 Nov-Dec;13(6):527-36 (185 ref.)
Predicting mandibular invasion in mouth cancer. Smyth DA, et al. **Clin Otolaryngol** 1996 Jun;21(3):265-8
Early detection and management of esophageal cancer. Margulies C, et al. **Compr Ther** 1996 Sep;22(9):565-78 (98 ref.)
Malignant primary skin tumors in children. Sasson M, et al. **Curr Opin Pediatr** 1996 Aug;8(4):372-7 (34 ref.)
Contribution of transmission electron microscopy to fine-needle aspiration biopsy diagnosis: comparison of cytology and combined cytology and transmission electron microscopy with final histological diagnosis. Quinonez GE, et al. **Diagn Cytopathol** 1996 Nov;15(4):282-7
A patient with seven primary tumors of the upper aerodigestive tract: the process of field cancerization versus distant monoclonal expansion [see comments] Cense HA, et al. **Dis Esophagus** 1997 Apr;10(2):139-42. Comment in: Dis Esophagus 1997 Apr;10(2):143-4.
Anterior laryngeal transglottic carcinoma. Sataloff RT, et al. **Ear Nose Throat J** 1996 Nov;75(11):702
Squamous cell carcinoma of the right vocal fold [published erratum appears in Ear Nose Throat J 1996 Aug;75(8):550] Sataloff RT, et al. **Ear Nose Throat J** 1996 Apr;75(4):192
Circulating markers in squamous cell carcinoma of the head and neck: a review. Rassekh CH, et al.
Eur J Cancer B Oral Oncol 1994 Jan;30B(1):23-8 (63 ref.)
Ectopic vaginal decidualization. An unusual finding that presents problems of differential diagnosis with carcinoma. Castellví Vives J, et al. **Eur J Gynaecol Oncol** 1997; 18(3):183-4 (23 ref.)
Squamous cell carcinoma in mature cystic teratoma in a young woman: a diagnostic and management dilemma. Comerci JT Jr, et al. **Eur J Gynaecol Oncol** 1996; 17(6):501-3 (22 ref.)
Carcinoma of the uterine cervix with myocardial metastasis. Ando K, et al. **Gynecol Oncol** 1997 Apr;65(1):169-72
Human papillomavirus DNA detection in cervical specimens by hybrid capture: correlation with cytologic and histologic diagnoses of squamous intraepithelial lesions of the cervix. Hall S, et al. **Gynecol Oncol** 1996 Sep; 62(3):353-9
Relationship between squamous cell carcinoma antigen levels and tumor volumes in patients with cervical carcinomas undergoing neoadjuvant chemotherapy. Kim BG, et al. **Gynecol Oncol** 1996 Oct;63(1):105-13
Microvessel count is predictive of patients' survival in laryngeal squamous-cell carcinoma [letter] Beatrice F, et al. **Int J Cancer** 1996 Oct 21;69(5):426-7
Multiple pi inful keratoacanthomas. Frank TL, et al.
Int J Dermatol 1996 Sep;35(9):648-50 (24 ref.)
MIB1 growth fraction is not related to prognosis in cervical squamous cell carcinoma treated with radiotherapy. Oka K, et al. **Int J Gynecol Pathol** 1996 Jan;15(1):23-7
Correlation of imaging and clinical features in the assessment of mandibular invasion of oral carcinomas. Kalavrezos ND, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):439-45
Usefulness of fat-suppression magnetic resonance imaging for oral and maxillofacial lesions. Kitagawa Y, et al.
Int J Oral Maxillofac Surg 1996 Dec;25(6):457-62
Multilocular renal cell carcinoma. Vandercruysse D, et al. **J Belge Radiol** 1996 Dec;79(6):280
Examination of p53 alterations and cytokeratin expression in sputa collected from patients prior to histological diagnosis of squamous cell carcinoma. Anderson M, et al. **J Cell Biochem Suppl** 1996;25:185-90
Anal canal cancer diagnosis: usefulness of serum tumor markers. Indinnimeo M, et al. **J Chemother** 1997 Apr; 9(2):121-2
Squamous cell carcinoma arising from lupus vulgaris on an old burn scar: diagnosis by polymerase chain reaction. Hagiwara K, et al. **J Dermatol** 1996 Dec;23(12):883-9 (17 ref.)
Peri-urethral abscess--a rare presentation of urethral carcinoma. Singla SL, et al. **J Indian Med Assoc** 1997 Mar; 95(3):90
Occult perineural tumor infiltration of the trigeminal nerve. Diagnostic considerations. ten Hove MW, et al.
J Neuroophthalmol 1997 Sep;17(3):170-7
A rapid serological detection method for squamous cell carcinoma. Yoshizawa H, et al. **J Obstet Gynaecol Res** 1996 Dec;22(6):575-83
Combination assay for tumor markers in oral squamous cell carcinoma. Kurokawa H, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):964-6
A comparison of segmental and marginal bony resection for oral squamous cell carcinoma involving the mandible. Ord RA, et al. **J Oral Maxillofac Surg** 1997 May;55(5):470-7; discussion 477-8
In vivo photo-detection of chemically induced premalignant lesions and squamous cell carcinoma of the rat palatal mucosa. Nauta JM, et al. **J Photochem Photobiol B** 1997 Jun;39(2):156-66
Outpatient loop electrosurgical excision procedure for cervical intraepithelial neoplasia. Can it replace cold knife conization? Eduardo AM, et al. **J Reprod Med** 1996 Oct; 41(10):729-32
Clinical Significance of a cervical cytologic diagnosis of atypical squamous cells of undetermined significance. Favoring a reactive process or low grade squamous intraepithelial lesion. Gonzalez D, et al. **J Reprod Med** 1996 Oct;41(10):719-23
ASCUS on cervical cytologic smears. Clinical significance. Yang M, et al. **J Reprod Med** 1997 Jun;42(6):329-31
Squamous cell carcinoma of bladder [editorial; comment] Bahnson RR. **J Urol** 1997 Jun;157(6):2115. Comment on: J Urol 1997 Jun;157(6):2109-11. Comment on: J Urol 1997 Jun;157(6):2112-4.
Bowenoid papulosis: a benign lesion of the shaft of the penis misdiagnosed as squamous carcinoma. Su CK, et al.
J Urol 1997 Apr;157(4):1361-2
Contrast-enhanced MRI with gadodiamide injection in rabbit carcinoma models. Yamada K, et al. **J Vet Med Sci** 1996 May;58(5):389-96
A comparison of serum CYFRA 21-1 and SCC Ag in the diagnosis of squamous cell lung carcinoma. Kim YC, et al. **Korean J Intern Med** 1996 Jan;11(1):50-7
Sputum screening by quantitative microscopy: a reexamination of a portion of the National Cancer Institute Cooperative Early Lung Cancer Study. Payne PW, et al. **Mayo Clin Proc** 1997 Aug;72(8):697-704
Nonmelanoma skin cancer. Katz MH. **Md Med J** 1997 May-Jun;46(5):239-42 (20 ref.)
Errors in cervical smears: minimizing the risk of medicolegal consequences. Greening SE. **Monogr Pathol** 1997; (39):16-39 (52 ref.)
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 19-1997. A 57-year-old man with a bloody pericardial effusion [clinical conference] **N Engl J Med** 1997 Jun 19;336(25):1812-9
Serum tumor marker CYFRA 21-1 in the diagnostics of squamous cell lung cancer--comparison with CEA. Beržinec P, et al. **Neoplasma** 1996;43(3):159-61
The utility of toluidine blue application as a diagnostic aid in patients previously treated for upper oropharyngeal carcinoma. Epstein JB, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 May;83(5):537-47
Intraosseous epidermoid cyst in a metacarpal mimicking malignancy. Pagnano MW, et al. **Orthopedics** 1997 Aug; 20(8):719-21
Thyroid cancers. II. Medullary, anaplastic, lymphoma, sarcoma, squamous cell. Austin JR, et al.
Otolaryngol Clin North Am 1996 Aug;29(4):611-27 (86 ref.)
Laryngeal cancer in children and adolescents. McGuirt WF Jr, et al. **Otolaryngol Clin North Am** 1997 Apr;30(2):207-14 (33 ref.)
Head and neck cancer screening among 4611 tobacco users older than forty years. Prout MN, et al.
Otolaryngol Head Neck Surg 1997 Feb;116(2):201-8
Basal and squamous cell carcinomas. What every primary care physician should know. Marghoob AA.
Postgrad Med 1997 Aug;102(2):139-42, 146, 152-4 passim (20 ref.)
Light-induced fluorescence spectroscopy: a potential diagnostic tool for oral neoplasia. Chen CT, et al.
Proc Natl Sci Counc Repub China B 1996 Oct;20(4):123-30
Renal pelvic and ureteral carcinoma with huge hydronephrosis: US, CT, and MR findings. Kanematsu M, et al. **Radiat Med** 1996 Nov-Dec;14(6):321-3
CT and MR imaging of squamous cell carcinoma of the tongue and floor of the mouth. Sigal R, et al.
Radiographics 1996 Jul;16(4):787-810
Esophageal cancer. Clinical and pathologic features. Gore RM. **Radiol Clin North Am** 1997 Mar;35(2):243-63 (131 ref.)
Renal failure, paraproteinemia, and lung squamous cell carcinoma. Safadi R, et al. **Ren Fail** 1997 May;19(3):495-8
Anal carcinoma: a 14 year experience. Gallén M, et al.
Rev Esp Enferm Dig 1997 Jan;89(1):23-8 **(Eng, Spa)**
Squamous cell carcinoma in a Müllerian duct cyst: report of a case. Kato S, et al. **Surg Today** 1996;26(8):645-8
In situ assessment of cell proliferation at the invasive front of oral squamous cell carcinomas. Piffkó J, et al.
Virchows Arch 1996 Nov;429(4-5):229-34
[The detection of laryngeal carcinoma-associated antigens in tissue and serum using three mixed monoclonal antibodies against laryngeal cancer] Chen O, et al.
Chung Hua Erh Pi Yen Hou Ko Tsa Chih 1996;31(1):43-6 (Eng. Abstr.) **(Chi)**
[Pseudo-Still disease and deep neoplasm] Routier G, et al.
Rev Med Interne 1997;18(1):47-9 (4 ref.) (Eng. Abstr.) **(Fre)**
[A rare cause of gynecomastia in a more than 70-year-old man. Case report and differential diagnostic considerations] Schürmeyer TH, et al. **Fortschr Med** 1997 Jul 20; 115(20-21):40-3 (Eng. Abstr.) **(Ger)**
[Short tau inversion recovery fat suppression in T2-weighted turbo spin echo-MRI of malignancies of the mouth and oropharynx] Dreher A, et al. **Laryngorhinootologie** 1996 Feb;75(2):83-7 (Eng. Abstr.) **(Ger)**
[A case of non-smoking female with peripheral small lung squamous cell carcinoma discovered after operation of spontaneous pneumothorax] Kobayashi K, et al.
Kyobu Geka 1997 Jun;50(6):499-502 (Eng. Abstr.) **(Jpn)**
[Investigation of the usefulness of CYFRA 21-1 as a tumor marker in squamous cell carcinomas of the head and neck] Sano K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jul; 100(7):790-7 (Eng. Abstr.) **(Jpn)**
[Detection of human papilloma virus DNA and expression of p53 protein in patients with head and neck cancer] Takano I, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 May; 100(5):524-33 (Eng. Abstr.) **(Jpn)**
[Lung cancer: progress in diagnosis and treatment. I. Diagnosis and physiopathology: 2. On the lung screening system--cytodiagnosis and CT examination] Kakinuma R, et al. **Nippon Naika Gakkai Zasshi** 1997 Jan 10;86(1):10-4 **(Jpn)**
[An immunohistological study on expression of glutathione S-transferase pi (form) in dysplastic and neoplastic human uterine cervix lesions] Satoh T, et al.
Nippon Sanka Fujinka Gakkai Zasshi 1996 Jul;48(7):522-8 (Eng. Abstr.) **(Jpn)**
[The expression of c-myc protein in uterine cervical cancer: a possible prognostic indicator] Wu HJ.
Nippon Sanka Fujinka Gakkai Zasshi 1996 Jul;48(7):515-21 (Eng. Abstr.) **(Jpn)**
[Coexistence of endometrioid ovarian tumor and squamous cell carcinoma of the cervix] Pityński K, et al.
Ginekol Pol 1996 Dec;67(12):629-31 (Eng. Abstr.) **(Pol)**
[Clinical significance of tumor markers CYFRA 21-1 and neuron-specific enolase in lung cancer] Kushlinskii NE, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):98-100 **(Rus)**
[Malignant skin neoplasms] Karapetian RM, et al.
Ter Arkh 1995;67(12):72-3 **(Rus)**
[A case of a combination of multiple myeloma and lung cancer] Osipova MV, et al. **Ter Arkh** 1997;69(6):64-5 **(Rus)**
[Malignant angular cheilitis] Seoane J, et al.
Acta Otorrinolaringol Esp 1996 Jul-Aug;47(4):325-7 (Eng. Abstr.) **(Spa)**
[Computerized tomography in the detection of metastatic cervical lymph nodes] Zapater E, et al.
Acta Otorrinolaringol Esp 1996 Sep-Oct;47(5):383-6 (Eng. Abstr.) **(Spa)**
[Lung carcinoma and chronic lymphocytic leukemia: report of a synchronous diagnosis] Rovira Daudi E, et al.
An Med Interna 1997 Jan;14(1):35-7 (Eng. Abstr.) **(Spa)**
[Inflammatory pseudotumor of the parotid gland] Hellín Meseguer D, et al. **An Otorrinolaringol Ibero Am** 1996; 23(6):631-40 (Eng. Abstr.) **(Spa)**
[Paraneoplastic nephrotic syndrome in epidermoid carcinoma of the lung (letter) (see comments)] Gullón JA, et al.
Arch Bronconeumol 1996 Jan;32(1):52-3. Comment in: Arch Bronconeumol 1996 Nov;32(9):493. **(Spa)**
[Anal epidermoid carcinoma: a rare incidence or a rare diagnosis?] Prieto Reyes M, et al. **Rev Esp Enferm Dig** 1997 Feb;89(2):128-32 (53 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Transarterial infusion of cisplatin and doxorubicin in bladder cancer. Mokarim A, et al. **Acta Oncol** 1997;36(2):175-81
A comparison of the physiological effects of RSU1069 and RB6145 in the SCCVII murine tumour. Wood PJ, et al.
Acta Oncol 1996;35(8):989-94
Squamous cell cancer cell lines: sensitivity to bleomycin and suitability for animal xenograft studies. Jääskelä-Saari HA, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:241-4
Final report of a randomized controlled study with streptococcal preparation OK-432 as a supplementary immunopotentiator for laryngeal cancer. Kimura T, et al.
Acta Otolaryngol Suppl (Stockh) 1996;525:135-41
Combined chemotherapy and radiation therapy in head and neck cancer. Nishiyama K, et al.
Acta Otolaryngol Suppl (Stockh) 1996;524:79-82
Histological effect of intranodal injection of the streptococcal preparation OK-432 for cervical lymph node metastases of malignant head and neck tumors. Suzuki K, et al.
Acta Otolaryngol Suppl (Stockh) 1996;525:125-8
A phase II trial of edatrexate in previously treated squamous cell cervical cancer: a Gynecologic Oncology Group study. Broun ER, et al. **Am J Clin Oncol** 1997 Feb;20(1):78-80
Preoperative simultaneous chemoradiotherapy in locally advanced cancer of the oral cavity and oropharynx. del Campo JM, et al. **Am J Clin Oncol** 1997 Feb;20(1):97-100
Phase II study of cisplatin, 5-fluorouracil, and leucovorin in inoperable squamous cell carcinoma of the esophagus. ONCOPAZ Cooperative Group, Spain. Feliu J, et al.
Am J Clin Oncol 1996 Dec;19(6):577-80
Treatment of squamous cell carcinoma of the esophagus with alternating radiotherapy and chemotherapy (cisplatin, methotrexate, and peplomycin). Kagami Y, et al.
Am J Clin Oncol 1997 Feb;20(1):16-8
Effect of 13-cis-retinoic acid with neoadjuvant chemotherapy in patients with squamous cervical carcinoma. Kim JW, et al. **Am J Clin Oncol** 1996 Oct; 19(5):442-4
Preliminary report of outpatient weekly adjuvant chemotherapy for high-risk nasopharyngeal carcinoma. Lin JC, et al. **Am J Clin Oncol** 1996 Dec;19(6):624-7
Phase II trial of piroxantrone in advanced squamous cell carcinoma of the cervix: a Gynecological Oncology Group study. Lincoln S, et al. **Am J Clin Oncol** 1997 Feb; 20(1):84-5
A phase II trial of 5-fluorouracil and high-dose leucovorin in patients with recurrent squamous cell carcinoma of the cervix: a Gynecologic Oncology Group study. Look KY, et al. **Am J Clin Oncol** 1996 Oct;19(5):439-41
A phase II study of topotecan in patients with recurrent head and neck cancer. Identification of an active new agent. Robert F, et al. **Am J Clin Oncol** 1997 Jun;20(3):298-302
Sequential chemotherapy and radiotherapy for squamous cell esophageal carcinoma. Sharma D, et al.
Am J Clin Oncol 1997 Apr;20(2):151-3
Phase II trial of 13-cis retinoic acid plus interferon-alpha

in advanced squamous cell carcinoma of head and neck, refractory to chemotherapy [letter] Cascinu S, et al. **Ann Oncol** 1996 Jul;7(5):538

Chemotherapy for symptom control in recurrent squamous cell carcinoma of the head and neck [see comments] Constenla DO, et al. **Ann Oncol** 1997 May;8(5):445-9. Comment in: Ann Oncol 1997 May;8(5):417-8.

Chemotherapy of squamous cell carcinoma of head and neck: the future is now. Vokes EE, et al. **Ann Oncol** 1996 Jan; 7(1):15-29 (152 ref.)

Effect of photodynamic therapy on selected laboratory values of patients with nasopharyngeal carcinoma. Lai JP, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):680-2

Photodynamic therapy for esophageal malignancy: a prospective twelve-year study. McCaughan JS Jr, et al. **Ann Thorac Surg** 1996 Oct;62(4):1005-9; discussion 1009-10

Evaluation of Taxol in head and neck squamous carcinoma multicellular tumor spheroids. Griffon-Etienne G, et al. **Anticancer Drugs** 1997 Jan;8(1):48-55

Preliminary report of the activity of docetaxel in advanced or recurrent squamous cell cancer of the cervix. Kudelka AP, et al. **Anticancer Drugs** 1996 Jun;7(4):398-401

Prolonged stabilization of progressive squamous cell cancer of the cervix with interferon-alpha and 13-cis-retinoic acid: report of two cases and review of the literature. Piamsomboon S, et al. **Anticancer Drugs** 1996 Sep; 7(7):800-4 (48 ref.)

Radiation therapy and chemotherapy in the conservative treatment of carcinoma of the anal canal: survival and late morbidity in a series of 25 patients. Gabriele AM, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):653-6

Expression of p53 and apoptosis of tumor cells in locally advanced cervical carcinoma after cisplatin based neoadjuvant chemotherapy. Garzetti GG, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3229-34

Vulvar squamous cell carcinoma cell lines are sensitive to paclitaxel in vitro. Jaakkola M, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):939-43

Treatment of multiple lesions of Bowen disease with isotretinoin and interferon alfa. Efficacy of combination chemotherapy. Gordon KB, et al. **Arch Dermatol** 1997 Jun; 133(6):691-3

Differential apoptotic pattern induced by photodynamic therapy and cisplatin in human squamous cell carcinoma cell line. Matsumoto Y, et al. **Arch Dermatol Res** 1996 Dec; 289(1):52-4

Ototoxic effects of supradose cisplatin with sodium thiosulfate neutralization in patients with head and neck cancer. Madasu R, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):978-81

Photodynamic therapy for early squamous cell carcinomas of the esophagus, bronchi, and mouth with m-tetra (hydroxyphenyl) chlorin. Savary JF, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):162-8

Oestrogen increases S-phase fraction and oestrogen and progesterone receptors in human cervical cancer in vivo. Bhattacharya D, et al. **Br J Cancer** 1997;75(4):554-8

Phase II study of paclitaxel in pretreated patients with locally advanced/metastatic cancer of the bladder and ureter. Papamichael D, et al. **Br J Cancer** 1997;75(4):606-7

Primary metastatic bladder carcinoma during pregnancy. Danisman A, et al. **Br J Urol** 1997 Mar;79(3):489

Photodynamic therapy of bladder cancer cell lines. Datta SN, et al. **Br J Urol** 1997 Sep;80(3):421-6

Phase II study of induction and adjuvant chemotherapy for squamous cell carcinoma of the head and neck. A long-term analysis for the Illinois Cancer Center. Athanasiadis I, et al. **Cancer** 1997 Feb 1;79(3):588-94

Photodynamic therapy using 5-aminolevulinic acid for premalignant and malignant lesions of the oral cavity. Fan KF, et al. **Cancer** 1996 Oct 1;78(7):1374-83

Vinorelbine, cisplatin, and 5-fluorouracil as initial treatment for previously untreated, unresectable squamous cell carcinoma of the head and neck: results of a phase II multicenter study. Gebbia V, et al. **Cancer** 1997 Apr 1; 79(7):1394-400

Effective radiochemotherapy with cisplatin and etoposide for the management of patients with locally inoperable and metastatic esophageal carcinoma. Hejna M, et al. **Cancer** 1996 Oct 15;78(8):1646-50

Evaluation of multimodality treatment of locoregional esophageal carcinoma by Southwest Oncology Group 9060. Poplin EA, et al. **Cancer** 1996 Nov 1;78(9):1851-6

Correlation between computed tomographic density of lymph node metastases and response to cisplatin-based chemotherapy in patients with head and neck squamous cell carcinoma in an area in which betel quid chewing is prevalent. Wang HM, et al. **Cancer** 1996 Nov 1; 78(9):1972-9

Cisplatin pharmacokinetics and pharmacodynamics in patients with squamous-cell carcinoma of the head/neck or esophagus. Johnsson A, et al. **Cancer Chemother Pharmacol** 1996;39(1-2):25-33

Advantages and safety of local treatment with MMC/Beriplast P for cancer tumors. Matsuoka H, et al. **Cancer Chemother Pharmacol** 1996;38(6):508-12

Methotrexate removal during haemodialysis in a patient with advanced laryngeal carcinoma. Thomson AH, et al. **Cancer Chemother Pharmacol** 1996;38(6):566-70

Effect of Krestin as adjuvant treatment following radical radiotherapy in non-small cell lung cancer patients. Hayakawa K, et al. **Cancer Detect Prev** 1997;21(1):71-7

Lack of effect of daily N-acetylcysteine supplementation on mutagen sensitivity. Cloos J, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):941-4

Concurrent chemoradiotherapy for salvage in relapsed squamous cell head and neck cancer. Tan EH, et al. **Cancer Invest** 1997;15(5):422-8

Intensive chemoradiation followed by esophagectomy for squamous cell and adenocarcinoma of the esophagus [see comments] Forastiere AA, et al. **Cancer J Sci Am** 1997 May-Jun;3(3):144-52. Comment in: Cancer J Sci Am 1997 May-Jun;3(3):137-9.

Cisplatin, fluorouracil, and L-leucovorin induction chemotherapy for locally advanced head and neck cancer: the M.D. Anderson Cancer Center experience [see comments] Papadimitrakopoulou VA, et al. **Cancer J Sci Am** 1997 Mar-Apr;3(2):92-9. Comment in: Cancer J Sci Am 1997 Mar-Apr;3(2):73-5.

Induction chemotherapy in the management of squamous cell cancer of the head and neck [comment] Posner MR, et al. **Cancer J Sci Am** 1997 Mar-Apr;3(2):73-5. Comment on: Cancer J Sci Am 1997 Mar-Apr;3(2):92-9.

Paclitaxel enhances in vitro radiosensitivity of squamous carcinoma cell lines of the head and neck. Leonard CE, et al. **Cancer Res** 1996 Nov 15;56(22):5198-204

A novel retinoic acid receptor-selective retinoid, ALRT1550, has potent antitumor activity against human oral squamous carcinoma xenografts in nude mice. Shalinsky DR, et al. **Cancer Res** 1997 Jan 1;57(1):162-8

Chemotherapy in oesophageal cancer. Kok TC. **Cancer Treat Rev** 1997 Mar;23(2):65-85 (188 ref.)

Toxicity of chemotherapy for esophageal carcinoma. Ilson D. **Chest Surg Clin N Am** 1997 Aug;7(3):551-63; discussion 564 (49 ref.)

Exploration for drug therapy in endometrial carcinoma. Zhang X, et al. **Chin Med J (Engl)** 1996 May;109(5):356-60

Carboplatin, 5-fluorouracil and folinic acid: a 48-hour chemotherapy regimen in advanced and recurrent squamous carcinoma of the head and neck. Hatton MQ, et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):380-3

Treatment of head and neck cancer: the role of chemotherapy. Adelstein DJ, et al. **Crit Rev Oncol Hematol** 1996 Oct;24(2):97-116 (215 ref.)

New drug therapy for squamous carcinoma of the head and neck. Murphy BA. **Curr Opin Oncol** 1996 May;8(3):221-6 (61 ref.)

Ukrain treatment in carcinoma of the oesophagus (case report). Vyas JJ, et al. **Drugs Exp Clin Res** 1996; 22(3-5):267-9

Carboplatin and 5-fluorouracil in squamous cell carcinoma of the head and neck previously responding to cisplatin and 5-fluorouracil [letter] Benasso M, et al. **Eur J Cancer** 1997 Feb;33(2):318-9

Enhanced acute toxicity in oropharynx carcinoma treated with radiotherapy and concomitant cisplatin, 5-fluorouracil and mitomycin C. Berger C, et al. **Eur J Cancer** 1996 Sep; 32A(10):1707-11

Randomised phase II study of cisplatin and 5-fluorouracil (5-FU) versus cisplatin alone in advanced squamous cell oesophageal cancer. Bleiberg H, et al. **Eur J Cancer** 1997 Jul;33(8):1216-20

Comparison of induction chemotherapy before radiotherapy with radiotherapy only in patients with locally advanced squamous cell carcinoma of the lung. The Swedish Lung Cancer Study Group. Brodin O, et al. **Eur J Cancer** 1996 Oct;32A(11):1893-900

13-cis-retinoic acid and alpha-interferon in advanced squamous cell cancer of the oesophagus [letter] Kok TC, et al. **Eur J Cancer** 1997 Jan;33(1):165-6

Pre-operative chemotherapy for squamous cell carcinoma of the oesophagus: do histological assessment and p53 overexpression predict chemo-responsiveness? Lam KY, et al. **Eur J Cancer** 1997 Jul;33(8):1221-5

Phase II study of weekly high-dose cisplatin for six cycles in patients with locally advanced squamous cell carcinoma of the head and neck. Planting AS, et al. **Eur J Cancer** 1997 Jan;33(1):61-5

Phase II trial of oxaliplatin (L-OHP) in advanced, recurrent and/or metastatic squamous cell carcinoma of the head and neck [letter] Degardin M, et al. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):278-9

Neoadjuvant and adjuvant chemotherapy in the multidisciplinary treatment of oral cancer stage III or IV. Grau JJ, et al. **Eur J Cancer B Oral Oncol** 1996 Jul; 32B(4):238-41

Weekly cisplatin as neoadjuvant chemotherapy in locally advanced cervical cancer: a well-tolerated alternative. Giardina G, et al. **Eur J Gynaecol Oncol** 1997;18(3):173-6

Remission of recurrent cervical cancer with paclitaxel and carboplatin: a case report and review of literature. Termrungruanglert W, et al. **Eur J Gynaecol Oncol** 1996; 17(6):493-6 (21 ref.)

Indium-111 bleomycin complex for radiochemotherapy of head and neck cancer--dosimetric and biokinetic aspects [published erratum appears in Eur J Nucl Med 1997 Feb;24(2):235] Kairemo KJ, et al. **Eur J Nucl Med** 1996 Jun;23(6):631-8

Photodynamic therapy of oral cancer. A review of basic mechanisms and clinical applications. Nauta JM, et al. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 1)):69-81 (138 ref.)

Superselective cisplatin (CDDP)-carboplatin (CBDCA) combined infusion for head and neck cancers. Imai S, et al. **Eur J Radiol** 1995 Dec 15;21(2):94-9

Up-to-date management of carcinoma of the penis. Pizzocaro G, et al. **Eur Urol** 1997;32(1):5-15 (49 ref.)

The role of chemotherapy in the treatment of head and neck cancer. Inuyama Y, et al. **Gan To Kagaku Ryoho** 1997 May; 24 Suppl 1:52-9 (11 ref.)

Esophageal varices obliterated by photodynamic therapy for coexisting early esophageal carcinoma. Ido K, et al. **Gastrointest Endosc** 1997 May;45(5):420-3 (8 ref.)

Primary radiation, cisplatin, and 5-fluorouracil for advanced squamous carcinoma of the vulva. Cunningham MJ, et al. **Gynecol Oncol** 1997 Aug;66(2):258-61 (19 ref.)

Neoadjuvant chemotherapy in stage IB2 squamous cell carcinoma of the cervix. Serur E, et al. **Gynecol Oncol** 1997 May;65(2):348-56

Neurotoxicity in a phase I trial of continuous infusion cisplatin with hyperfractionated radiotherapy for locally advanced head and neck cancer. Clamon GH, et al. **Head Neck** 1996 May-Jun;18(3):236-41

Combined chemotherapy and radiotherapy versus surgery and postoperative radiotherapy for advanced hypopharyngeal cancer. Zelefsky MJ, et al. **Head Neck** 1996 Sep-Oct;18(5):405-11

Simultaneous combination therapy of carboplatin and radiation for patients with carcinoma of the esophagus. Ohno S, et al. **Hepatogastroenterology** 1997 Jan-Feb; 44(13):181-6

Influence of stage classification, tumor differentiation and mode of invasion against clinical and histopathological effects on low dose sequential methotrexate and 5-fluorouracil administration as neo-adjuvant chemotherapy for oral squamous cell carcinoma. Asaumi J. **In Vivo** 1997 Mar-Apr;11(2):147-51

The effect of high dose vitamin A on the morphology and proliferative activity of xenograft lung and head and neck cancer. Mourad WA, et al. **In Vivo** 1996 May-Jun; 10(3):329-33

Photodynamic therapy: an effective, but non-selective treatment for superficial cancers of the oral cavity. Grant WE, et al. **Int J Cancer** 1997 Jun 11;71(6):937-42

13-cis retinoic acid and interferon-alpha +/- irradiation in the treatment of squamous-cell carcinomas. Hoffmann W, et al. **Int J Cancer** 1997 Feb 7;70(4):475-7

Retinoid-interferon therapy of solid tumors. Lippman SM, et al. **Int J Cancer** 1997 Feb 7;70(4):481-3 (27 ref.)

Combination of alpha-interferon 2a (alpha-IFN 2a) and 13-cis-retinoic acid (13cRA) in recurrent, pre-treated squamous-cell carcinoma of head and neck (SCCHN). Toma S, et al. **Int J Cancer** 1997 Feb 7;70(4):491-3

Photofrin-mediated photodynamic therapy of chemically-induced premalignant lesions and squamous cell carcinoma of the palatal mucosa in rats. Nauta JM, et al. **Int J Oral Maxillofac Surg** 1997 Jun;26(3):223-31

A phase I/II study of external beam radiation, brachytherapy and concurrent chemotherapy in localized cancer of the esophagus (RTOG 92-07): preliminary toxicity report. Gaspar LE, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):593-9

Radiotherapy and concomitant weekly 1-hour infusion of paclitaxel in the treatment of head and neck cancer--results from a Phase I trial. Hoffmann W, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):691-6

Chemotherapy and low-dose radiotherapy in the treatment of HIV-infected patients with carcinoma of the anal canal. Peddada AV, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1101-5

Efficacy of targeted supradose cisplatin and concomitant radiation therapy for advanced head and neck cancer: the Memphis experience. Robbins KT, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):263-71

Postoperative radiotherapy with concurrent cisplatin appears to improve locoregional control of advanced, resectable head and neck cancers: RTOG 88-24. Al-Sarraf M, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):777-82

Phase II trial of trimetrexate in advanced esophageal cancer: a southwest oncology group study. Fleming TR, et al. **Invest New Drugs** 1996;13(4):363-5

Inhibition of the epidermal growth factor receptor tyrosine kinase by PD153035 in human A431 tumors in athymic nude mice. Kunkel MW, et al. **Invest New Drugs** 1996; 13(4):295-302

An ECOG phase II study of amonafide in unresectable or recurrent carcinoma of the head and neck (PB390). Eastern Cooperative Oncology Group. Leaf AN, et al. **Invest New Drugs** 1997;15(2):165-72

13-Cis-retinoic acid and interferon alpha-2a in patients with advanced esophageal cancer: a phase II trial. Slabber CF, et al. **Invest New Drugs** 1996;14(4):391-4

Evaluation of topotecan in patients with recurrent for metastatic squamous cell carcinoma of the head and neck. A phase II Southwest Oncology Group study. Smith RE, et al. **Invest New Drugs** 1996;14(4):403-7

Herbimycin A, a tyrosine kinase inhibitor, impairs hypercalcemia associated with a human squamous cancer producing interleukin-6 in nude mice. Moriyama K, et al. **J Bone Miner Res** 1996 Jul;11(7):905-11

Chemosensitivity of head and neck squamous carcinoma cell lines is not primarily correlated with glutathione level but is modified by glutathione depletion. Bier H, et al. **J Cancer Res Clin Oncol** 1996;122(11):653-8

Bleomycin, epirubicin, carboplatin (BECA) in the treatment of recurrent and/or metastatic squamous cell carcinoma of the head and neck. Adamo V, et al. **J Chemother** 1997

Feb;9(1):72–6
Modulation of cisplatin antitumor activity by short infusional high-dose cytosine arabinoside in advanced pretreated head and neck carcinoma: a phase II study. Jelic S, et al. **J Chemother** 1996 Aug;8(4):304–9
Induction chemotherapy with cisplatin, fluorouracil, and high-dose leucovorin for squamous cell carcinoma of the head and neck: long-term results. Clark JR, et al. **J Clin Oncol** 1997 Sep;15(9):3100–10
Primary chemoradiation therapy with fluorouracil and cisplatin for cancer of the anus: results in 35 consecutive patients. Doci R, et al. **J Clin Oncol** 1996 Dec;14(12):3121–5
Chemotherapy as an adjunct to radiation in the treatment of squamous cell carcinoma of the head and neck: results of the Yale Mitomycin Randomized Trials. Haffty BG, et al. **J Clin Oncol** 1997 Jan;15(1):268–76
Vinorelbine as neoadjuvant chemotherapy in advanced cervical carcinoma. Lacava JA, et al. **J Clin Oncol** 1997 Feb;15(2):604–9
Randomized trial of cisplatin versus cisplatin plus mitolactol versus cisplatin plus ifosfamide in advanced squamous carcinoma of the cervix: a Gynecologic Oncology Group study. Omura GA, et al. **J Clin Oncol** 1997 Jan;15(1):165–71
Phase II study of irinotecan in prior chemotherapy-treated squamous cell carcinoma of the cervix. Verschraegen CF, et al. **J Clin Oncol** 1997 Feb;15(2):625–31
Management of carcinoma anal canal with combination chemotherapy and concurrent radiotherapy. Mishra RC, et al. **J Indian Med Assoc** 1996 Feb;94(2):53–4, 57
Neoadjuvant chemotherapy with continuous infusion of cisplatin and 5-fluorouracil, with or without leucovorin, for locally advanced nasopharyngeal carcinoma. Fonseca E, et al. **J Infus Chemother** 1996 Fall;6(4):217–20
Modulation of human papillomavirus type 16 mRNA in cervical invasive carcinoma patients by interferon-alpha therapy. García-Milián R, et al. **J Interferon Cytokine Res** 1996 Sep;16(9):739–43
Low-dose isotretinoin versus beta-carotene to prevent oral carcinogenesis: long-term follow-up. Papadimitrakopoulou VA, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):257–8
Preoperative simultaneous cisplatin- or carboplatin-based chemotherapy and radiotherapy for squamous cell carcinoma of the oral cavity. Kirita T, et al. **J Surg Oncol** 1996 Dec;63(4):240–8
Preoperative chemotherapy versus surgical therapy alone for squamous cell carcinoma of the esophagus: a prospective randomized trial [see comments] Law S, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):210–7. Comment in: J Thorac Cardiovasc Surg 1997 Aug;114(2):203–4.
Cisplatin, ifosfamide, methotrexate and vinblastine combination chemotherapy for metastatic urothelial cancer. Kyriakakis Z, et al. **J Urol** 1997 Aug;158(2):408–11
Vocal fundamental frequency measures as a reflection of tumor response to chemotherapy in patients with advanced laryngeal cancer. Orlikoff RF, et al. **J Voice** 1997 Mar; 11(1):33–9
Evaluation of angiogenic inhibitors with an in vivo quantitative angiogenesis method using agarose microencapsulation and mouse hemoglobin enzyme-linked immunosorbent assay. Okada N, et al. **Jpn J Cancer Res** 1996 Sep;87(9):952–7
Phase II study of chemoradiotherapy for advanced squamous cell carcinoma of the thoracic esophagus: nine Japanese institutions trial. Ishida K, et al. **Jpn J Clin Oncol** 1996 Oct;26(5):310–5
Epidermoid anal cancer: results from the UKCCCR randomised trial of radiotherapy alone versus radiotherapy, 5-fluorouracil, and mitomycin. UKCCCR Anal Cancer Trial Working Party. UK Co-ordinating Committee on Cancer Research [see comments] **Lancet** 1996 Oct 19; 348(9034):1049–54. Comment in: Lancet 1997 Jan 18;349(9046):205–6.
Combined radiotherapy and chemotherapy for anal cancer. EORTC Radiotherapy and Gastrointestinal Cooperative Groups [letter; comment] Bosset JF, et al. **Lancet** 1997 Jan 18;349(9046):205–6. Comment on: Lancet 1996 Oct 19;348(9034):1049–54.
Differential effects of retinoic acid and N-(4-hydroxyphenyl)retinamide on head and neck squamous cell carcinoma cells. Eicher SA, et al. **Laryngoscope** 1996 Dec;106(12 Pt 1):1471–5
The effects of 13-cis retinoic acid on squamous cell carcinoma proliferation and adhesion to extracellular matrix proteins. Speyer MT, et al. **Laryngoscope** 1997 Jan; 107(1):44–8
KTP laser and neutral red phototherapy of human squamous cell carcinoma. VanderWerf QM, et al. **Laryngoscope** 1997 Mar;107(3):316–20
Optimizing light dosimetry in photodynamic therapy of early stage carcinomas of the esophagus using fluorescence spectroscopy. Braichotte DR, et al. **Lasers Surg Med** 1996; 19(3):340–6
Photodynamic therapy of facial squamous cell carcinoma in cats using a new photosensitizer. Magne ML, et al. **Lasers Surg Med** 1997;20(2):202–9
Photodynamic therapy for early stage squamous cell carcinoma of the lung [see comments] Cortese DA, et al. **Mayo Clin Proc** 1997 Jul;72(7):595–602. Comment in: Mayo Clin Proc 1997 Jul;72(7):688–90.
Photodynamic therapy for early stage central type of lung cancer [editorial; comment] Kato H. **Mayo Clin Proc** 1997 Jul;72(7):688–90. Comment on: Mayo Clin Proc 1997 Jul;72(7):595–602.
Hypercalcemia and carcinoma of the penis. Videtic GM, et al. **Med Pediatr Oncol** 1997 Dec;29(6):576–7
A comparative study of preoperative B-V-M-M chemotherapy and irradiation in advanced squamous cell cancer of the oral cavity. Olasz L, et al. **Neoplasma** 1996; 43(1):51–6
Combined chemotherapy and radiotherapy for esophageal carcinoma in a hemodialyzed patient. Long-term survival. Rebibou JM, et al. **Nephron** 1996;74(3):611–2
Overexpression of metallothionein correlates with chemoresistance to cisplatin and prognosis in esophageal cancer. Hishikawa Y, et al. **Oncology** 1997 Jul-Aug; 54(4):342–7
Paclitaxel administered over 3 h followed by cisplatin in patients with advanced head and neck squamous cell carcinoma: a clinical phase I study. Schilling T, et al. **Oncology** 1997 Mar-Apr;54(2):89–95
Intensive chemotherapy using cisplatin and fluorouracil followed by radiotherapy in advanced head and neck cancer. Zidan J, et al. **Oral Oncol** 1997 Mar;33(2):129–35
In vivo fluence rate effect in photodynamic therapy of early cancers with tetra(m-hydroxyphenyl)chlorin. Blant SA, et al. **Photochem Photobiol** 1996 Dec;64(6):963–8
Inhibition of growth in oral squamous carcinoma cells by cyclopentenone prostaglandins: comparison with chemotherapeutic agents. ElAttar TM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jun; 56(6):461–5
Synergistic cytotoxic effects of ether phospholipid analogues and ionizing radiation in human carcinoma cells. Berkovic D, et al. **Radiother Oncol** 1997 Jun;43(3):293–301
Factors influencing outcome following radio-chemotherapy for oesophageal cancer. The Trans Tasman Radiation Oncology Group (TROG) [see comments] Denham JW, et al. **Radiother Oncol** 1996 Jul;40(1):31–43. Comment in: Radiother Oncol 1997 Jan;42(1):91–2.
Neoadjuvant chemotherapy with cisplatin and 5-fluorouracil in advanced squamous cell carcinoma of the head and neck: a randomized phase III study. Lewin F, et al. **Radiother Oncol** 1997 Apr;43(1):23–8
Paclitaxel in the treatment of patients with upper gastrointestinal carcinomas. Ajani JA, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 12):55–8
A pilot trial of paclitaxel, carboplatin, and concurrent radiotherapy for unresectable squamous cell carcinoma of the head and neck. Conley B, et al. **Semin Oncol** 1997 Feb; 24(1 Suppl 2):S2-78–S2-80
Paclitaxel and carboplatin in recurrent or metastatic head and neck cancer: a phase II study. Fountzilas G, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-65–S2-67
Study of escalating doses of paclitaxel plus cisplatin in patients with inoperable head and neck cancer. Hitt R, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-58–S2-64
Paclitaxel in simultaneous radiochemotherapy of head and neck cancer: preclinical and clinical results. Hoffmann W, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-72–S2-77
Neoadjuvant chemotherapy with cisplatinum/5-fluorouracil/low-dose leucovorin for advanced squamous cell carcinoma of the esophagus. Ide H, et al. **Semin Surg Oncol** 1997 Jul-Aug;13(4):263–9
Neoadjuvant chemotherapy with continuous infusion of cisplatin and fluorouracil in stage II-IV, M0 squamous cell carcinoma of the head and neck. Boni C, et al. **Tumori** 1996 Nov-Dec;82(6):567–72
[Regional and systemic neoadjuvant chemotherapy in locally advanced carcinoma of the cervix uteri] Baichev G, et al. **Akush Ginekol (Sofiia)** 1996;35(4):17–8 (Eng. Abstr.) **(Bul)**
[A transplantable model of human laryngeal squamous carcinoma in nude mice] Ye J, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(5):292–4 (Eng. Abstr.) **(Chi)**
[Prospective study of thromboses of the subclavian vein after setting implantable venous access systems in cervico-facial cancerology] Bonfils P, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(7-8):425–9 (Eng. Abstr.) **(Fre)**
[Photochemotherapy in the treatment of carcinoma of the vocal cords of early stage (Tis, T1)] Delbove H, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(3):155–61 (29 ref.) (Eng. Abstr.) **(Fre)**
[Predictive biological factors of response to radiotherapy and chemotherapy in carcinoma of the upper respiratory and digestive tracts] Bourhis J, et al. **Bull Cancer Radiother** 1996;83(4):308–13 (55 ref.) **(Fre)**
[Apropos of two recently published randomized trials of induction chemotherapy in nasopharyngeal and piriform sinus carcinoma] de Crevoisier R, et al. **Bull Cancer Radiother** 1996;83(3):174–6 **(Fre)**
[Results of adjuvant chemotherapy of operated high risk cervix carcinoma] Dimpfl T, et al. **Geburtshilfe Frauenheilkd** 1996 Oct;56(10):517–9 (Eng. Abstr.) **(Ger)**
[Comparison of induction chemotherapy before radiotherapy and radiotherapy only in patients with locally advanced squamous cell carcinoma of the lung] Heilmann HP. **Strahlenther Onkol** 1997 Jun;173(6):340–1 **(Ger)**
[Downstaging of esophageal carcinoma after preoperative radio- and chemotherapy] Staar S. **Strahlenther Onkol** 1996 Dec;172(12):693–5 **(Ger)**
[Outcome of simultaneous radiochemotherapy of anal carcinoma] Fraunholz IB, et al. **Zentralbl Chir** 1997; 122(1):39–43 (Eng. Abstr.) **(Ger)**
[The anal canal: 2 cycles of radiochemotherapy and boost brachytherapy] Valentini V, et al. **Radiol Med (Torino)** 1997 Apr;93(4):451–6 (38 ref.) (Eng. Abstr.) **(Ita)**
[Combination chemotherapy with 5-FU and CDDP or CDDP analog for head and neck cancer] Fujii M, et al. **Gan To Kagaku Ryoho** 1996 Nov;23(13):1740–6 (Eng. Abstr.) **(Jpn)**
[Pathological evaluation of superselective one-shot intra-arterial infusion chemotherapy for head and neck tumors] Handa T, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1479–81 (Eng. Abstr.) **(Jpn)**
[A case report of tongue cancer presenting with SSD type brain embolism induced by chemotherapy with CBDCA and 5-FU] Itoh H, et al. **Gan To Kagaku Ryoho** 1997 Mar; 24(5):597–9 (Eng. Abstr.) **(Jpn)**
[Evaluation of neo-adjuvant chemotherapy for oral squamous cell carcinoma] Kurokawa H, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1273–8 (Eng. Abstr.) **(Jpn)**
[A case of recurrent squamous cell carcinoma of cervix successfully treated with BOMP] Matsui R, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1985–8 (Eng. Abstr.) **(Jpn)**
[A case of advanced esophageal cancer successfully treated by concurrent use of radiotherapy and low-dose CDDP and continuous infusion of 5-FU] Miyaji N, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):601–4 (Eng. Abstr.) **(Jpn)**
[A case of FIGO stage IV A vulvar cancer successfully treated by neoadjuvant chemotherapy with continuous intra-arterial infusion (cisplatin, 5-fluorouracil)] Narimatsu A, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1161–5 (Eng. Abstr.) **(Jpn)**
[Continuous infusion high-dose leucovorin with cisplatin and 5-fluorouracil for a recurrent oropharynx carcinoma] Nishino H, et al. **Gan To Kagaku Ryoho** 1997 Apr; 24(6):719–21 (Eng. Abstr.) **(Jpn)**
[Combination chemotherapy with nedaplatin, bleomycin and ifosfamide for advanced cervical cancer of the uterus--a preliminary study for phase III clinical study] Noda K, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1285–93 (Eng. Abstr.) **(Jpn)**
[Inhibition of 5-fluorouracil-cisplatin-induced stomatitis by oral cryotherapy: use of an ice-bar containing fibrinolysin and deoxyribonuclease combine (Elase)] Sato A, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1135–9 (Eng. Abstr.) **(Jpn)**
[Induction chemotherapy based on histoculture drug response assay for a patient with advanced thymic cancer--a case report] Tanino H, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):861–4 (Eng. Abstr.) **(Jpn)**
[CPE chemotherapy for tongue carcinoma--clinical effects and side effects] Yamamoto C, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):843–7 (Eng. Abstr.) **(Jpn)**
[A case of primary squamous cell carcinoma of the ureter: biochemical modulation with cisplatin and 5-fluorouracil] Kageyama S, et al. **Hinyokika Kiyo** 1997 Jan;43(1):41–4 (Eng. Abstr.) **(Jpn)**
[Usefulness of MR imaging in evaluating and predicting effect of neoadjuvant chemotherapy on uterine cervical carcinoma] Amano M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):176–81 (Eng. Abstr.) **(Jpn)**
[Studies on serum protein fractions of patients with maxillary sinus cancer undergoing a combination of radiotherapy and chemotherapy: II. Relationship between changes in serum protein fractions and prognosis] Onizuka K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):657–63 (Eng. Abstr.) **(Jpn)**
[Biochemical modulation applied to experimental cancer chemotherapy] Nakamura Y. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Nov;99(11):1694–704 (Eng. Abstr.) **(Jpn)**
[Chemotherapy with low-dose consecutive cisplatin (CDDP) for patients with recurrent and distant metastasis of head and neck cancer] Nishino H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Sep;99(9):1218–22 (Eng. Abstr.) **(Jpn)**
[Sequential chemotherapy and radiotherapy in the treatment of locally advanced carcinoma of the head and neck] Fonseca E, et al. **Acta Otorrinolaringol Esp** 1997 Mar; 48(2):127–32 (Eng. Abstr.) **(Spa)**
[Changes in the nuclear morphometry in oropharyngeal epidermoid carcinoma after induction chemotherapy] Santa Cruz Ruiz S, et al. **Acta Otorrinolaringol Esp** 1997 Mar; 48(2):93–7 (Eng. Abstr.) **(Spa)**
[A combination of radiotherapy and chemotherapy with platidiam and fluorouracil in patients with head and neck cancer] Shparyk IaV, et al. **Lik Sprava** 1996 Mar-Apr; (3-4):153–7 **(Ukr)**
[The chemotherapy of metastases of unknown origin] Shparyk IaV, et al. **Lik Sprava** 1996 Jan-Feb;(1-2):45–52 (51 ref.) **(Ukr)**

ECONOMICS

A cost-benefit analysis of colposcopy for cervical squamous intraepithelial lesions found on Papanicolaou smear [see comments] Chesebro MJ, et al. **Arch Fam Med** 1996

Nov-Dec;5(10):576-81. Comment in: Arch Fam Med 1996 Nov-Dec;5(10):582-4.
Colposcopy for cervical squamous intraepithelial lesions found on Papanicolaou smear [editorial; comment] Reed BD. **Arch Fam Med** 1996 Nov-Dec;5(10):582-4. Comment on: Arch Fam Med 1996 Nov-Dec;5(10):576-81.

ENZYMOLOGY

Alkaline phosphatase of cancerous larynx tissue in comparison with the placental enzyme. Biochemical and histochemical studies. al-Mudamgha ZA, et al. **Acta Oncol** 1997;36(2):213-8
Antisense E1AF transfection restrains oral cancer invasion by reducing matrix metalloproteinase activities. Hida K, et al. **Am J Pathol** 1997 Jun;150(6):2125-32
Expression of collagenase-3 (matrix metalloproteinase-13) in squamous cell carcinomas of the head and neck. Johansson N, et al. **Am J Pathol** 1997 Aug;151(2):499-508
Expression of matrix metalloproteinases and tissue inhibitor of metalloproteinases in head and neck squamous cell carcinoma. Charous SJ, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):271-8
N-acetylation polymorphism in patients with lung cancer and its association with p53 gene mutation. Oyama T, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):577-81
Cytochrome P450 2E1 polymorphism as a risk factor for lung cancer: in relation to p53 gene mutation. Oyama T, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):583-7
Immunolocalizations of human gelatinase (type IV collagenase, MMP-9) and TIMP (tissue inhibitor of metalloproteinases) in normal epidermis and some epidermal tumors. Kobayashi T, et al. **Arch Dermatol Res** 1996 May;288(5-6):239-44
Prognostic value of cathepsins B, H, L, D and their endogenous inhibitors stefins A and B in head and neck carcinoma. Budihna M, et al. **Biol Chem Hoppe Seyler** 1996 Jun;377(6):385-90
Up-regulation of urokinase-type plasminogen activator in squamous cell carcinoma of human larynx. Parolini S, et al. **Br J Cancer** 1996 Oct;74(8):1168-74
Cathepsin B fraction active at physiological pH of 7.5 is of prognostic significance in squamous cell carcinoma of human lung. Werle B, et al. **Br J Cancer** 1997;75(8):1137-43
Effect of subclinical lead intoxication on laryngeal cancer. Kandiloris DC, et al. **Br J Clin Pract** 1997 Mar;51(2):69-70
Cathepsin B and D expression in squamous cell carcinoma. Kawada A, et al. **Br J Dermatol** 1996 Dec;135(6):905-10
Overexpression of protein kinase C-alpha and -beta isozymes by stromal dendritic cells in basal and squamous cell carcinoma. Reynolds NJ, et al. **Br J Dermatol** 1997 May; 136(5):666-73
Increased expression of membrane type 1-matrix metalloproteinase in head and neck carcinoma. Yoshizaki T, et al. **Cancer** 1997 Jan 1;79(1):139-44
Telomerase activity in premalignant and malignant lesions of human oral mucosa. Kannan S, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jun;6(6):413-20
Esophageal cancer and aldehyde dehydrogenase-2 genotypes in Japanese males. Yokoyama A, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):99-102
Invasion and metastasis. Boyd D. **Cancer Metastasis Rev** 1996 Mar;15(1):77-89 (95 ref.)
Detection of telomerase activity in oral rinses from head and neck squamous cell carcinoma patients. Califano J, et al. **Cancer Res** 1996 Dec 15;56(24):5720-2
Telomerase activity in head and neck squamous cell carcinoma and adjacent tissues. Mao L, et al. **Cancer Res** 1996 Dec 15;56(24):5600-4
Retinoids suppress epidermal growth factor-induced transcription of cyclooxygenase-2 in human oral squamous carcinoma cells. Mestre JR, et al. **Cancer Res** 1997 Jul 15; 57(14):2890-5
Elevated activity of cyclin-dependent kinase 6 in human squamous cell carcinoma lines. Timmermann S, et al. **Cell Growth Differ** 1997 Apr;8(4):361-70
Glutathione S-transferase and cytochrome P450 genotypes as risk factors for laryngeal carcinoma. Jahnke V, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S147-9
Overexpression of glutathione S-transferase pi messenger RNA and its relationship to gene amplification in head and neck squamous cell carcinoma. Pavelic ZP, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S144-6
Prognostic value of cathepsins B, D and steffins A and B in laryngeal carcinoma. Smid L, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S150-3
Immunohistochemical and immunoradiometric evaluations of total cathepsin D in human larynx. Marsigliante S, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):51-5
Melanocyte mediated paracrine induction of extracellular matrix degrading proteases in squamous cell carcinoma cells. Borchers AH, et al. **Exp Cell Res** 1997 Feb 25; 231(1):61-5
Transfection and expression of MnSOD cDNA decreases tumor malignancy of human oral squamous carcinoma SCC-25 cells. Liu R, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):585-95
Leucocyte alkaline phosphatase activity in patients with squamous cell carcinoma. Bisht D, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):147-51
Possible contribution of active MMP2 to lymph-node metastasis and secreted cathepsin L to bone invasion of newly established human oral-squamous-cancer cell lines. Kawamata H, et al. **Int J Cancer** 1997 Jan 6;70(1):120-7
CYP1A1, CYP2E1 and GSTM1 polymorphisms are not associated with susceptibility to squamous-cell carcinoma of the esophagus. Morita S, et al. **Int J Cancer** 1997 Apr 10;71(2):192-5
Evaluation of glutathione S-transferase activity in human buccal epithelial dysplasias and squamous cell carcinomas. Chen YK, et al. **Int J Oral Maxillofac Surg** 1997 Jun; 26(3):205-9
Effectiveness of hyperthermia and radiation treatments for patients with esophageal cancer predicted by the succinate dehydrogenase inhibition test. Matsuda H, et al. **Int Surg** 1997 Jan-Mar;82(1):91-3
Inhibition of the epidermal growth factor receptor tyrosine kinase by PD153035 in human A431 tumors in athymic nude mice. Kunkel MW, et al. **Invest New Drugs** 1996; 13(4):295-302
Association of protein kinase FA/GSK-3alpha (a proline-directed kinase and a regulator of protooncogenes) with human cervical carcinoma dedifferentiation/progression. Yang SD, et al. **J Cell Biochem** 1995 Oct;59(2):143-50
Intracellular regulation of 17 beta-hydroxysteroid dehydrogenase type 2 catalytic activity in A431 cells. Blomquist CH, et al. **J Endocrinol** 1997 Jun;153(3):453-64
Inhibitory effects of dietary protocatechuic acid and costunolide on 7,12-dimethylbenz[a]anthracene-induced hamster cheek pouch carcinogenesis. Ohnishi M, et al. **Jpn J Cancer Res** 1997 Feb;88(2):111-9
Fibroblast-directed expression and localization of 92-kDa type IV collagenase along the tumor-stroma interface in an in vitro three-dimensional model of human squamous cell carcinoma. Borchers AH, et al. **Mol Carcinog** 1997 Aug;19(4):258-66
Opposite effect of stable transfection of bioactive transforming growth factor-beta 1 (TGF beta 1) versus exogenous TGF beta 1 treatment on expression of 92-kDa type IV collagenase in mouse skin squamous cell carcinoma CH72 cells. Rundhaug JE, et al. **Mol Carcinog** 1997 Jun; 19(2):122-36
Lysosomal dipeptidyl-peptidases I and II in human squamous cell lung carcinoma and lung parenchyma. Křepela E, et al. **Neoplasma** 1996;43(3):171-8
Immunohistochemical analysis of nucleoside diphosphate kinases in oral squamous cell carcinomas. Otsuki K, et al. **Oncology** 1997 Jan-Feb;54(1):63-8
Immunohistochemical study on the nm23 gene produce (NDP kinase) in oral squamous cell carcinoma. Ohtsuki K, et al. **Oral Oncol** 1997 Jul;33(4):237-9
Glutathione S-transferase pi expression in matched human normal and malignant oral mucosa. Sarkar G, et al. **Oral Oncol** 1997 Mar;33(2):74-81
Glutathione S-transferase pi-class as a tumour marker in lingual preneoplastic and neoplastic lesions of rats and humans. Li TJ, et al. **Virchows Arch** 1997 Jul;431(1):37-43
[Matrix metalloproteinase-2 concentrations in squamous cell carcinoma of the head and neck and its clinical significance] Kawata R, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Feb;99(2):299-305 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

From epithelial dysplasia to squamous carcinoma in the head and neck region: an epidemiological assessment. Bosatra A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:47-8
Epidemiology of laryngeal cancer: results of the Heidelberg case-control study. Maier H, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:160-4
Sinonasal cancer and occupation. Results from the reanalysis of twelve case-control studies. Leclerc A, et al. **Am J Ind Med** 1997 Feb;31(2):153-65
Comprehensive analysis of pharyngeal recurrence of laryngeal carcinoma after total laryngectomy. Yuen AP, et al. **Am J Otolaryngol** 1996 Nov-Dec;17(6):380-5
Recent trends in the epidemiology of esophageal cancer. Comparison of epidermoid- and adenocarcinomas. Moyana TN, et al. **Ann Clin Lab Sci** 1996 Nov-Dec;26(6):480-6
Epidemiology of nonmelanoma skin cancer: a review. Corona R. **Ann Ist Super Sanita** 1996;32(1):37-42 (60 ref.)
Ethnic variations in lung cancer. Groeger AM, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2849-57
Trends in the population-based incidence of squamous cell carcinoma of the skin first diagnosed between 1984 and 1992. Gray DT, et al. **Arch Dermatol** 1997 Jun; 133(6):735-40 (29 ref.)
Cutaneous squamous cell carcinoma in human immunodeficiency virus-infected patients. A study of epidemiologic risk factors, human papillomavirus, and p53 expression. Maurer TA, et al. **Arch Dermatol** 1997 May; 133(5):577-83
Non-melanoma skin cancer and solar keratoses II analytical results of the South Wales Skin Cancer Study. Harvey I, et al. **Br J Cancer** 1996 Oct;74(8):1308-12
Squamous cell carcinoma of the penis and of the cervix, vulva and vagina in spouses: is there any relationship? An epidemiological study from Norway, 1960-92. Iversen T, et al. **Br J Cancer** 1997;76(5):658-60
Non-Hodgkin's lymphomas, chronic lymphocytic leukaemias and skin cancers. Levi F, et al. **Br J Cancer** 1996 Dec; 74(11):1847-50
The relation between cancer incidence among relatives and the occurrence of multiple primary carcinomas following head and neck cancer. Bongers V, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):595-8
Glutathione S-transferase M1 genotypes and the risk of anal cancer: a population-based case-control study. Chen C, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec; 5(12):985-91
Correlates of mutagen sensitivity in patients with upper aerodigestive tract cancer. Spitz MR, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep;6(9):687-92
Epidemiology of squamous cell conjunctival cancer. Sun EC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):73-7
The urban/rural divide in head and neck cancer--the effect of atmospheric pollution. Wake M. **Clin Otolaryngol** 1993 Aug;18(4):298-302
The effects of alcohol and smoking upon the age, anatomic sites and stage in the development of cancer of the oral cavity and oropharynx in females in the south west Netherlands. de Boer MF, et al. **Eur Arch Otorhinolaryngol** 1997;254(4):177-9
Time trends in oesophageal cancer incidence in Côte d'Or (France), 1976-93. Liabeuf A, et al. **Eur J Cancer Prev** 1997 Feb;6(1):24-30
The age-related incidences of oesophageal carcinoma in intellectually disabled individuals in institutes in The Netherlands. Böhmer CJ, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):589-92
Epidemiologic data on vulvar cancer: comparison of hospital with population-based data. van der Velden J, et al. **Gynecol Oncol** 1996 Sep;62(3):379-83
Sexual risk factors for cervical cancer among rural Indian women: a case-control study. Biswas LN, et al. **Int J Epidemiol** 1997 Jun;26(3):491-5
The increasing incidence of lung adenocarcinoma: reality or artefact? A review of the epidemiology of lung adenocarcinoma. Charloux A, et al. **Int J Epidemiol** 1997 Feb;26(1):14-23 (100 ref.)
Cigarette smoking and nasopharyngeal cancer: an analysis of the relationship according to age at starting smoking and age at diagnosis. Zhu K, et al. **J Epidemiol** 1997 Jun; 7(2):107-11
Hypopharyngeal cancer patient care evaluation. Hoffman HT, et al. **Laryngoscope** 1997 Aug;107(8):1005-17
The trends in histological types of lung cancer during 1980-1988, Guangzhou, China. Cha Q, et al. **Lung Cancer** 1997 Jul;17(2-3):219-30
Human papillomavirus infection and cervical cancer in Brazil: a retrospective study. Cavalcanti SM, et al. **Mem Inst Oswaldo Cruz** 1996 Jul-Aug;91(4):433-40
Skin cancer trends at Wilford Hall Medical Center. LeVasseur JG, et al. **Mil Med** 1997 Jul;162(7):459-62
Trends in squamous cell carcinoma of the vulva: the influence of vulvar intraepithelial neoplasia. Jones RW, et al. **Obstet Gynecol** 1997 Sep;90(3):448-52
Applications of molecular epidemiology to head and neck cancer. Hart TC. **Otolaryngol Clin North Am** 1997 Feb; 30(1):21-34 (73 ref.)
Descriptive epidemiology of head and neck squamous cell carcinoma in Puerto Ricans. Almodovar J, et al. **P R Health Sci J** 1996 Dec;15(4):251-5
Impact of filter cigarette smoking on lung cancer histology. Stellman SD, et al. **Prev Med** 1997 Jul-Aug;26(4):451-6
Syphilis and the risk of penis cancer. Frisch M, et al. **Sex Transm Dis** 1996 Nov-Dec;23(6):471-4
Glutathione S-transferase mu polymorphism and susceptibility to lung cancer in the Portuguese population. Moreira A, et al. **Teratog Carcinog Mutagen** 1996; 16(5):269-74
Cutaneous neoplasms and human papillomavirus in renal transplant patients: experience of one center in Mexico. Orozco-Topete R, et al. **Transplant Proc** 1996 Dec; 28(6):3314-6
[The factors determining survivorship in patients with colorectal carcinoma complicated by obstructive ileus of the large intestine] Stoianov Kh, et al. **Khirurgiia (Sofiia)** 1996;49(2):17-20 (Eng. Abstr.) **(Bul)**
[Epidemiology of oropharyngeal carcinoma] Ambrosch P. **HNO** 1996 Jan;44(1):2-3 **(Ger)**
[Screening studies for early detection of carcinomas of the upper aerodigestive tract] Ambrosch P. **HNO** 1996 Nov; 44(11):609-11 **(Ger)**
[Risk of second primary cancer in two-year survivors of small cell lung cancer] Yoshida T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):741-6 (Eng. Abstr.) **(Jpn)**
[Cervical metastasis of squamous cell carcinoma of unknown origin: experience at Hospital de Sant Pau, Barcelona, Spain] Jürgens Mestre A, et al. **Acta Otorrinolaringol Esp** 1996 May-Jun;47(3):233-8 (Eng. Abstr.) **(Spa)**
[Lung cancer in the Island of Menorca (1990-1993)] Segui Diaz M, et al. **Gac Sanit** 1996 Jul-Aug;10(55):169-73 (Eng. Abstr.) **(Spa)**
[Cervico-uterine cancer and age] Verduzca Rodríguez LA, et al. **Ginecol Obstet Mex** 1997 Apr;65:119-22 (Eng. Abstr.) **(Spa)**
[Anal epidermoid carcinoma: a rare incidence or a rare diagnosis?] Prieto Reyes M, et al. **Rev Esp Enferm Dig** 1997 Feb;89(2):128-32 (53 ref.) (Eng. Abstr.) **(Spa)**
[Epidemiology of cervical invasive cancer in the Gerona health area in 1980-1989. Cancer registry of Gerona] Garrido Victoria S, et al. **Rev Esp Salud Publica** 1997 Jan-Feb;71(1):19-26 (Eng. Abstr.) **(Spa)**

CARCINOMA, SQUAMOUS CELL

ETHNOLOGY

Lung carcinoma in African Americans and whites. A population-based study in metropolitan Detroit, Michigan. Schwartz AG, et al. **Cancer** 1997 Jan 1;79(1):45-52

ETIOLOGY

Radiation therapy for squamous cell carcinoma in dystrophic epidermolysis bullosa: case reports and literature review. Bastin KT, et al. **Am J Clin Oncol** 1997 Feb;20(1):55-8 (23 ref.)

Sinonasal cancer and occupational exposure to textile dust. Luce D, et al. **Am J Ind Med** 1997 Sep;32(3):205-10

Radiation-induced tumors of the temporal bone. Lustig LR, et al. **Am J Otol** 1997 Mar;18(2):230-5

Carcinoma of the larynx in patients with gastroesophageal reflux. Freije JE, et al. **Am J Otolaryngol** 1996 Nov-Dec; 17(6):386-90

Malignancy arising in seborrheic keratosis: a report of two cases. Yap WM, et al. **Ann Acad Med Singapore** 1997 Mar; 26(2):235-7 (15 ref.)

Vaginal carcinoma associated with haematocolpos: a case report and review of vaginal adenosis as a precursor lesion. Cook S, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov; 35(4):465-7

Orbital squamous cell carcinoma following retinal detachment surgery. Lee LR, et al.
Aust N Z J Ophthalmol 1997 Feb;25(1):75-7

A review of the aetiology of squamous cell carcinoma of the conjunctiva. Newton R. **Br J Cancer** 1996 Nov; 74(10):1511-3 (25 ref.)

Carcinoma in a pressure sore [letter] Ceuppens A, et al.
Br J Plast Surg 1997 Jul;50(5):382-3

Risk factors for squamous cell carcinoma of the oesophagus [letter; comment] Morgan G. **Br J Surg** 1997 Feb; 84(2):281-2. Comment on: Br J Surg 1996 Sep;83(9):1174-85.

Risk factors for squamous cell carcinoma of the oesophagus [see comments] Ribeiro U Jr, et al. **Br J Surg** 1996 Sep; 83(9):1174-85 (168 ref.). Comment in: Br J Surg 1997 Feb;84(2):281-2.

Squamous cell carcinoma in a patient on clean intermittent self-catheterization. Zaidi SZ, et al. **Br J Urol** 1997 Aug; 80(2):352-3

Postburn scar carcinomas in Kashmiris. Chowdri NA, et al. **Burns** 1996 Sep;22(6):477-82

Risk of squamous cell carcinoma and adenocarcinoma of the lung in relation to lifetime filter cigarette smoking. Stellman SD, et al. **Cancer** 1997 Aug 1;80(3):382-8

Drinking practices and risk of squamous-cell esophageal cancer among Black and White men in the United States. Brown LM, et al. **Cancer Causes Control** 1997 Jul; 8(4):605-9

Molecular and cellular biomarkers for field cancerization and multistep process in head and neck tumorigenesis. Papadimitrakopoulou VA, et al. **Cancer Metastasis Rev** 1996 Mar;15(1):53-76 (237 ref.)

Gender differences in smoking and risk for oral cancer. Muscat JE, et al. **Cancer Res** 1996 Nov 15;56(22):5192-7

Induction of cancer, actinic keratosis, and specific p53 mutations by UVB light in human skin maintained in severe combined immunodeficient mice. Nomura T, et al.
Cancer Res 1997 Jun 1;57(11):2081-4

The role of UVA in the aetiology of non-melanoma skin cancer. de Laat JM, et al. **Cancer Surv** 1996;26:173-91 (109 ref.)

Photoimmunology of non-melanoma skin cancer. Streilein JW. **Cancer Surv** 1996;26:207-17 (40 ref.)

Squamous cell carcinoma arising in lichen planus of the penis during topical cyclosporin therapy [letter] Cox NH.
Clin Exp Dermatol 1996 Jul;21(4):323-4

Pathobiology of vulvar squamous neoplasia. Crum CP, et al. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):63-9 (50 ref.)

Aspects of exposure to UVA tanning sources. Carcinogenic effect in mice and melanogenic effect in man and mice. Bech-Thomsen N. **Dan Med Bull** 1997 Jun;44(3):242-56 (116 ref.)

Squamous cell carcinoma in situ arising within clear cell acanthoma. Parsons ME, et al. **Dermatol Surg** 1997 Jun; 23(6):487-8

The genetic basis of human keratinocyte immortalisation in squamous cell carcinoma development: the role of telomerase reactivation. Parkinson EK, et al.
Eur J Cancer 1997 Apr;33(5):727-34 (81 ref.)

Case-control study of risk factors for cervical squamous cell neoplasia in Denmark. IV: role of smoking habits. Kjaer SK, et al. **Eur J Cancer Prev** 1996 Oct;5(5):359-65

Synchronous signet ring cell carcinoma and squamous cell carcinoma arising in an augmented ileocystoplasty. Case report and review of the literature. Fernandez-Arjona M, et al. **Eur Urol** 1996;29(1):125-8 (14 ref.)

An unusual presentation of vulvar carcinoma: a traumatic aetiology? [letter] Weinberg JM, et al. **Genitourin Med** 1997 Apr;73(2):146

Fulminant course of a microinvasive vulvar carcinoma in an immunosuppressed woman. Volgger B, et al.
Gynecol Oncol 1997 Apr;65(1):177-9

Laryngeal carcinoma in patients without a history of tobacco and alcohol use. Agudelo D, et al. **Head Neck** 1997 May; 19(3):200-4

Lack of serologic evidence for Helicobacter pylori infection in head and neck cancer. Grandis JR, et al. **Head Neck** 1997 May;19(3):216-8

Carcinoma arising in a dentigerous cyst with neck metastasis. Manganaro AM, et al. **Head Neck** 1997 Aug;19(5):436-9

Squamous cell carcinoma of the liver originating from a solitary non-parasitic cyst case report and review of the literature. Weimann A, et al. **HPB Surg** 1996;10(1):45-9 (24 ref.)

Low prevalence of human papillomavirus infection in esophageal squamous cell carcinomas from North America: analysis by a highly sensitive and specific polymerase chain reaction-based approach. Turner JR, et al. **Hum Pathol** 1997 Feb;28(2):174-8

Sexual behaviour and increased anal cancer. Ablin RJ, et al. **Immunol Cell Biol** 1997 Apr;75(2):181-3

Malignancy in chronic osteomyelitis sinus. Report of three cases. Sadat-Ali M, et al. **Indian J Cancer** 1996 Sep; 33(3):139-44

Squamous cell carcinoma of the lower lip in renal-transplant recipients. Report of six cases. de Visscher JG, et al.
Int J Oral Maxillofac Surg 1997 Apr;26(2):120-3

Squamous cell carcinoma of the penis arising from balanitis xerotica obliterans. Giannakopoulos X, et al.
Int Urol Nephrol 1996;28(2):223-7

Actinic keratoses. Callen JP, et al. **J Am Acad Dermatol** 1997 Apr;36(4):650-3 (14 ref.)

Skin necrosis with subsequent formation of squamous cell carcinoma after subcutaneous interferon beta injection. Fruland JE, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):488-9

Oral squamous cell carcinoma: new insights. Jordan RC, et al. **J Can Dent Assoc** 1997 Jul-Aug;63(7):517-8, 521-5 (47 ref.)

Non-melanoma skin tumors occurring on a Japanese psoriatic patient treated with longterm photochemotherapy [letter] Tamada Y, et al. **J Dermatol** 1997 Aug;24(8):552-3

Carcinoma in situ of the penis in a 76-year-old circumcised man. Cold CJ, et al. **J Fam Pract** 1997 Apr;44(4):407-10 (33 ref.)

Case report: primary cystic keratinizing squamous cell carcinoma of the liver in a patient with treated nasopharyngeal carcinoma. Chou YY, et al.
J Gastroenterol Hepatol 1997 Mar;12(3):229-32

Tobacco, alcohol, and socioeconomic status and adenocarcinomas of the esophagus and gastric cardia [see comments] Gammon MD, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1277-84. Comment in: J Natl Cancer Inst 1997 Sep 3;89(17):1247-9.

Squamous cell carcinoma associated with a mandibular staple implant. Moxley JE, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):1020-2 (6 ref.)

Screening cystoscopy and survival of spinal cord injured patients with squamous cell cancer of the bladder [see comments] Navon JD, et al. **J Urol** 1997 Jun;157(6):2109-11 . Comment in: J Urol 1997 Jun;157(6):2115.

Epidermodysplasia verruciformis. Hafeez ZH, et al.
JPMA J Pak Med Assoc 1996 Dec;46(12):282-4

Immunosuppression and risk of non-melanoma skin cancer in renal transplant recipients [letter] Glover MT, et al.
Lancet 1997 Feb 8;349(9049):398

AIDS and the eyes [letter; comment] Newton R. **Lancet** 1996 Oct 5;348(9032):968. Comment on: Lancet 1996 Aug 24;348(9026):525-8.

Squamous cell carcinoma of the foot arising in chronic ulcers in leprosy patients. Soares D, et al. **Lepr Rev** 1996 Dec; 67(4):325-9

Development of squamous cell carcinoma in chronic discoid lupus erythematosus: a report of two patients with anti-Ro/SSA antibodies [letter] Miyagawa S, et al.
Lupus 1996 Dec;5(6):630-2

Delays in malignant tumor development in transgenic mice by forced epidermal keratin 10 expression in mouse skin carcinomas. Santos M, et al. **Mol Carcinog** 1997 Sep; 20(1):3-9

Gingival squamous cell carcinoma in a patient with chronic graft-versus-host disease. Otsubo H, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Aug;84(2):171-4

Proliferative verrucous leukoplakia: a follow-up study of 54 cases. Silverman S Jr, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Aug;84(2):154-7

The etiology and pathogenesis of laryngeal carcinoma. Koufman JA, et al. **Otolaryngol Clin North Am** 1997 Feb; 30(1):1-19 (120 ref.)

Epidermoid carcinoma complicating chronic osteomyelitis of the femur. Blidi M, et al. **Rev Rhum Engl Ed** 1996 Jan; 63(1):62-4 (6 ref.)

Esophageal carcinoma: current controversies. DeMeester TR. **Semin Surg Oncol** 1997 Jul-Aug;13(4):217-33 (93 ref.)

Proliferative activity and p53 protein accumulation correlate with early invasive trend, and apoptosis correlates with differentiation grade in oesophageal squamous cell carcinomas. Ohashi K, et al. **Virchows Arch** 1997 Feb; 430(2):107-15

Pleural epidermoid carcinoma from displaced skin following extrapleural pneumothorax in a patient exposed to asbestos. Sapino A, et al. **Virchows Arch** 1996 Oct;429(2-3):173-6 (10 ref.)

[Metastatic epidermoid carcinoma in idiopathic CD4+ T lymphocytopenia syndrome] Michel JL, et al.
Ann Dermatol Venereol 1996;123(8):478-82 (24 ref.) (Eng. Abstr.) **(Fre)**

[Cancer of the oral cavity in machine workers] Tisch M, et al. **Laryngorhinootologie** 1996 Dec;75(12):759-63 (Eng. Abstr.) **(Ger)**

[Malignant neoplasms and AIDS. Review of the literature and critical considerations on a case of epidermoid carcinoma of the anus] Romito A, et al.
Recenti Prog Med 1997 Jul-Aug;88(7-8):348-55 (48 ref.) (Eng. Abstr.) **(Ita)**

[Bladder cancer in patients with spinal cord injury: report of two cases] Sugimoto K, et al. **Hinyokika Kiyo** 1997 May; 43(5):359-62 (22 ref.) (Eng. Abstr.) **(Jpn)**

[A case of malignant degeneration of the walls of an epithelial coccygeal cyst] Lavreshin PM, et al.
Vestn Khir Im I I Grek 1996;155(5):95 **(Rus)**

GENETICS

Cytologic changes in two cervical carcinoma cell lines after transfection of the wild-type p53 gene. Iwasaka T, et al.
Acta Obstet Gynecol Scand 1996 Oct;75(9):797-803

Identifying genetic changes associated with tumor progression in squamous cell carcinoma. Carey TE, et al.
Acta Otolaryngol Suppl (Stockh) 1997;529:229-32

p53 mutations in human head and neck cancer cell lines. Kiuru A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:237-40

The role of p53 tumor suppressor gene in human head and neck tumorigenesis. Pavelic ZP, et al.
Acta Otolaryngol Suppl (Stockh) 1997;527:21-4 (41 ref.)

The bcl-2 gene status of human head and neck cancer cell lines. Salo A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:233-6

Immunohistochemical vs molecular biology methods. Complementary techniques for effective screening of p53 alterations in head and neck cancer. Calzolari A, et al.
Am J Clin Pathol 1997 Jan;107(1):7-11

Pleomorphic (giant and spindle cell) carcinoma is genetically distinct from adenocarcinoma and squamous cell carcinoma by K-ras-2 and p53 analysis. Przygodzki RM, et al.
Am J Clin Pathol 1996 Oct;106(4):487-92

Genetic predisposition and parameters of malignant progression in K14-HPV16 transgenic mice. Coussens LM, et al. **Am J Pathol** 1996 Dec;149(6):1899-917

Antisense E1AF transfection restrains oral cancer invasion by reducing matrix metalloproteinase activities. Hida K, et al. **Am J Pathol** 1997 Jun;150(6):2125-32

Benign clonal keratinocyte patches with p53 mutations show no genetic link to synchronous squamous cell precancer or cancer in human skin. Ren ZP, et al. **Am J Pathol** 1997 May;150(5):1791-803

Detection of p53 gene mutations in cytopathology and biopsy specimens from patients with lung cancer. Murakami I, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):1117-23

Glutathione S-transferase and cytochrome-P-450 polymorphism as risk factors for squamous cell carcinoma of the larynx. Jahnke V, et al. **Am J Surg** 1996 Dec; 172(6):671-3

The erbB oncogenes as prognostic markers in oral squamous cell carcinomas. Werkmeister R, et al. **Am J Surg** 1996 Dec;172(6):681-3

Late occurrence of K-ras gene mutations in the pathogenesis of squamous cell carcinoma of the lung: analysis in sputum [letter] Zhang Z, et al. **Anal Quant Cytol Histol** 1996 Dec; 18(6):501-2

Prognostic significance of Bcl-2 expression in localized squamous cell carcinoma of the head and neck. Friedman M, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):445-50

p53 overexpression in squamous cell carcinoma of the esophagus. Baron PL, et al. **Ann Surg Oncol** 1997 Jan; 4(1):37-45

Cytochrome P450 2E1 polymorphism as a risk factor for lung cancer: in relation to p53 gene mutation. Oyama T, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):583-7

Expression of MAGE genes in esophageal squamous-cell carcinoma. Quillien V, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):387-91

bcl-2 vs p53 protein expression and apoptotic rate in human nonmelanoma skin cancers. Wikonkal NM, et al.
Arch Dermatol 1997 May;133(5):599-602

Analysis of microsatellite instability and loss of heterozygosity in keratoacanthoma. Peris K, et al.
Arch Dermatol Res 1997 Mar;289(4):185-8

Cancer of the tongue in patients younger than 40 years. A distinct entity? Atula S, et al.
Arch Otolaryngol Head Neck Surg 1996 Dec;122(12):1313-9

p53 mutation as a prognostic marker in advanced laryngeal carcinoma. Department of Veterans Affairs Laryngeal Cancer Cooperative Study Group. Bradford CR, et al.
Arch Otolaryngol Head Neck Surg 1997 Jun;123(6):605-9

Restoration of the G1 checkpoint and the apoptotic pathway mediated by wild-type p53 sensitizes squamous cell carcinoma of the head and neck to radiotherapy. Chang EH, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):507-12

Polysomies of chromosomes 7 and 17 in head and neck squamous cell carcinomas. Choi G, et al.
Arch Otolaryngol Head Neck Surg 1996 Oct;122(10):1062-7

Frequent loss of heterozygosity on chromosome arm 18q in squamous cell carcinomas. Identification of 2 regions of loss--18q11.1-q12.3 and 18q21.1-q23. Jones JW, et al.
Arch Otolaryngol Head Neck Surg 1997 Jun;123(6):610-4

Overexpression of cyclin D1 indicates a poor prognosis in

squamous cell carcinoma of the head and neck. Michalides RJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):497–502

Deletion analysis of the p16/CDKN2 gene in head and neck squamous cell carcinoma using quantitative polymerase chain reaction method. Rawnsley JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):863–7

Absence of p53 mutations in squamous carcinomas of the tongue in nonsmoking and nondrinking patients younger than 40 years. Sorensen DM, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):503–6

Peritumoral angiogenesis in carcinomas of the head and neck. Mikami Y, et al. **Auris Nasus Larynx** 1996;23:57–62

Expression of p34cdc2 protein kinase and p53 in supraglottic carcinomas. Yamamoto Y, et al. **Auris Nasus Larynx** 1996; 23:105–10

Biologic implications of genetic changes in head and neck squamous cell carcinogenesis. Reid CB, et al. **Aust N Z J Surg** 1997 Jul;67(7):410–6 (72 ref.)

Mutations of the INK4a locus in squamous cell carcinomas of human skin. Kubo Y, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):38–41

p53 mutations in squamous cell carcinomas from renal transplant recipients. Bennett MA, et al. **Biochem Soc Trans** 1997 Feb;25(1):342–5

Detection of p53 mutations in oral cancer samples using a sensitive PCR-based method. Steingrimsdottir H, et al. **Biochem Soc Trans** 1997 Feb;25(1):315–8

Familial risks of squamous cell carcinoma of the head and neck: retrospective case-control study. Foulkes WD, et al. **BMJ** 1996 Sep 21;313(7059):716–21

Infrequent microsatellite instability in oesophageal cancers. Muzeau F, et al. **Br J Cancer** 1997;75(9):1336–9 (40 ref.)

Low frequency of allelic loss in skin tumours from immunosuppressed individuals. Rehman I, et al. **Br J Cancer** 1997;76(6):757–9

Involvement of chromosome 6 in endometrial cancer. Tibiletti MG, et al. **Br J Cancer** 1997;75(12):1831–5

The scleroatrophic syndrome of Huriez. Kavanagh GM, et al. **Br J Dermatol** 1997 Jul;137(1):114–8

Decreasing p53 overexpression in sequential, recurrent, oral squamous cell carcinomas. Leung KW, et al. **Br J Oral Maxillofac Surg** 1996 Jun;34(3):225–9

Amplification of cyclin D1 in squamous cell carcinoma of the head and neck and the prognostic value of chromosomal abnormalities and cyclin D1 overexpression. Akervall JA, et al. **Cancer** 1997 Jan 15;79(2):380–9

Molecular and immunohistochemical analysis of the bcl-1/cyclin D1 gene in laryngeal squamous cell carcinomas: correlation of protein expression with lymph node metastases and advanced clinical stage. Fracchiolla NS, et al. **Cancer** 1997 Mar 15;79(6):1114–21

The value of DNA flow cytometry in predicting the development of lymph node metastasis and survival in patients with locally recurrent oral squamous cell carcinoma. Hemmer J, et al. **Cancer** 1997 Jun 15; 79(12):2309–13

Diagnostic and prognostic value of nucleolar organizer regions in normal epithelium, dysplasia, and squamous cell carcinoma of the oral cavity. Xie X, et al. **Cancer** 1997 Jun 1;79(11):2200–8

p53 mutations in head and neck squamous cell carcinomas from Sudanese snuff (toombak) users. Lazarus P, et al. **Cancer Detect Prev** 1996;20(4):270–8

A possible role for human papillomaviruses and c-myc, c-Ha-ras, and p53 gene alterations in malignant cutaneous lesions from renal transplant recipients. Pelisson I, et al. **Cancer Detect Prev** 1996;20(1):20–30

Increased expression of the cyclin D1 gene in Barrett's esophagus. Arber N, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):457–9

p53 mutations in head and neck cancer: new data and evaluation of mutational spectra. Olshan AF, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):499–504

p53 alterations but no human papillomavirus infection in preinvasive and advanced squamous esophageal cancer in Italy. Rugge M, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar;6(3):171–6

The expression of common fragile sites and genetic predisposition to squamous cell lung cancers. Egeli U, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):153–8

Comparison of DNA flow cytometry and fluorescence in situ hybridization with a set of 10 chromosome-specific DNA probes in four head and neck carcinomas. Hemmer J, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):35–8

Chromosomal changes observed in immortalized human keratinocytes transformed by ionizing radiation. Hukku B, et al. **Cancer Genet Cytogenet** 1997 Feb;93(2):125–39

Comparative study of chromosome aberrations induced with aphidicolin in women affected by breast cancer and cervix uterine cancer. Paz-y-Miño C, et al. **Cancer Genet Cytogenet** 1997 Apr;94(2):120–4

Molecular cytogenetic analysis of five newly established cervical cancer cell lines using G banding and fluorescence in situ hybridization. Thein AT, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):28–36

T cell receptor V alpha and V beta gene usage by tumour-infiltrating lymphocytes in oral squamous cell carcinoma. Mouri T, et al. **Cancer Immunol Immunother** 1996 Sep;43(1):10–8

p16 tumor suppressor gene mutations in Chinese esophageal carcinomas in Hong Kong. Chan WC, et al. **Cancer Lett** 1997 May 19;115(2):201–6

Induction of invasive squamous cell carcinomas in the forestomach of (C3H x MSM)F1, MSM, and C3H mice by N-methyl-N-nitrosourea and mutational analysis of the H-ras and p53 genes. Masui T, et al. **Cancer Lett** 1997 Jan 1;111(1-2):97–104

Frequent loss of heterozygosity of chromosome 3 short arm detected by PCR-based microsatellite polymorphisms in cervical squamous cell carcinoma. Wong YF, et al. **Cancer Lett** 1997 May 19;115(2):161–4

Molecular staging of head and neck squamous carcinoma. Brennan JA, et al. **Cancer Metastasis Rev** 1996 Mar; 15(1):3–10 (46 ref.)

The clinical application of DNA content and kinetic parameters in the treatment of patients with squamous cell carcinomas of the head and neck. Ensley JF. **Cancer Metastasis Rev** 1996 Mar;15(1):133–41 (40 ref.)

Molecular and cellular biomarkers for field cancerization and multistep process in head and neck tumorigenesis. Papadimitrakopoulou VA, et al. **Cancer Metastasis Rev** 1996 Mar;15(1):53–76 (237 ref.)

Relative susceptibilities of XPA knockout mice and their heterozygous and wild-type littermates to UVB-induced skin cancer. Berg RJ, et al. **Cancer Res** 1997 Feb 15; 57(4):581–4

Distinct patterns of chromosomal alterations in high- and low-grade head and neck squamous cell carcinomas. Bockmühl U, et al. **Cancer Res** 1996 Dec 1;56(23):5325–9

Amplification of the genes BCHE and SLC2A2 in 40% of squamous cell carcinoma of the lung. Brass N, et al. **Cancer Res** 1997 Jun 1;57(11):2290–4

Localization and characterization of a chromosome 11 tumor suppressor gene using organotypic raft cultures. Gioeli D, et al. **Cancer Res** 1997 Mar 15;57(6):1157–65

Up-regulation of vascular endothelial growth factor/vascular permeability factor in mouse skin carcinogenesis correlates with malignant progression state and activated H-ras expression levels. Larcher F, et al. **Cancer Res** 1996 Dec 1;56(23):5391–6

p53 mutations in squamous cell carcinoma of the head and neck predominate in a subgroup of former and present smokers with a low frequency of genetic instability. Liloglou T, et al. **Cancer Res** 1997 Sep 15;57(18):4070–4

Frequent abnormalities of FHIT, a candidate tumor suppressor gene, in head and neck cancer cell lines. Mao L, et al. **Cancer Res** 1996 Nov 15;56(22):5128–31

Patterns of chromosomal imbalances in adenocarcinoma and squamous cell carcinoma of the lung. Petersen I, et al. **Cancer Res** 1997 Jun 15;57(12):2331–5

Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck. Shridhar R, et al. **Cancer Res** 1996 Dec 15;56(24):5576–8

Regulation of CD44v6-containing isoforms during proliferation of normal and malignant epithelial cells. Soukka T, et al. **Cancer Res** 1997 Jun 1;57(11):2281–9

Identification of a novel region of homozygous deletion on chromosome 9p in squamous cell carcinoma of the lung: the location of a putative tumor suppressor gene. Wiest JS, et al. **Cancer Res** 1997 Jan 1;57(1):1–6

Deletions of chromosome 3p are frequent and early events in the pathogenesis of uterine cervical carcinoma. Wistuba II, et al. **Cancer Res** 1997 Aug 1;57(15):3154–8

DNA damage and repair in melanoma and non-melanoma skin cancer. Camplejohn RS. **Cancer Surv** 1996;26:193–206 (46 ref.)

Molecular genetics of human non-melanoma skin cancer. Quinn AG. **Cancer Surv** 1996;26:89–114

Processing of three different types of DNA damage in cell lines of a cutaneous squamous cell carcinoma progression model. Diem C, et al. **Carcinogenesis** 1997 Apr;18(4):657–62

The role of UV-B light in skin carcinogenesis through the analysis of p53 mutations in squamous cell carcinomas of hairless mice. Dumaz N, et al. **Carcinogenesis** 1997 May; 18(5):897–904

p53 mutations in lung tumours: relationship to gender and lung DNA adduct levels. Kure EH, et al. **Carcinogenesis** 1996 Oct;17(10):2201–5

Glutathione S-transferase M1 (GSTM1) and T1 (GSTT1) polymorphisms and lung cancer risk among Northwestern Mediterraneans. To-Figueras J, et al. **Carcinogenesis** 1997 Aug;18(8):1529–33

Transfer of chromosome 18 into human head and neck squamous carcinoma cells: evidence for tumor suppression by Smad4/DPC4. Reiss M, et al. **Cell Growth Differ** 1997 Apr;8(4):407–15

Assessment of micronucleus induction in murine SCCVII cells treated with various anticancer agents. Jeremic B, et al. **Chemotherapy** 1996 Jul-Aug;42(4):266–72

Detection of chromosomal aneuploidy by interphase fluorescence in situ hybridization in bronchoscopically gained cells from lung cancer patients. Schenk T, et al. **Chest** 1997 Jun;111(6):1691–6

Simultaneous detection of genetic and immunological markers in non-small cell lung cancer: prediction of metastatic potential of tumor. Zborovskaya I, et al. **Clin Exp Metastasis** 1996 Nov;14(6):490–500

Clinical and molecular aspects of squamous cell carcinoma of the head and neck in the nonsmoker and nondrinker. Koch WM, et al. **Curr Opin Oncol** 1997 May;9(3):257–61 (17 ref.)

Biomarkers in head and neck carcinoma. Oh Y, et al. **Curr Opin Oncol** 1997 May;9(3):247–56 (109 ref.)

Flow cytometric measurement of DNA content in human solid tumors: a comparison with cytogenetics. Rapi S, et al. **Cytometry** 1996 Sep 15;26(3):192–7

Tumor suppressor p53 gene mutation in squamous cell carcinoma of the larynx. Sarkar FH, et al. **Diagn Mol Pathol** 1996 Sep;5(3):201–5

Clonality of esophageal carcinomas: genetic and epigenetic events leading to loss of genomic stability [comment] Jankowski JA. **Dis Esophagus** 1997 Apr;10(2):143–4. Comment on: Dis Esophagus 1997 Apr;10(2):139–42.

Cytokeratin 18 expression in squamous cell carcinoma of the head and neck. Balm AJ, et al. **Eur Arch Otorhinolaryngol** 1996;253(4-5):227–33

Alteration of p53 gene structure and function in laryngeal squamous cell cancer. Golusinski W, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S133–7

In vitro studies of liposome-mediated gene transfer into head and neck cancer cell lines. Wollenberg B, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S130–2

Loss of heterozygosity at the DCC gene locus is not crucial for the acquisition of metastatic potential in oesophageal squamous cell carcinoma. Maesawa C, et al. **Eur J Cancer** 1996 May;32A(5):896–8

Response to radiotherapy of human uterine cervix carcinoma is not correlated with rearrangements of the Ha-ras-1 and/or c-myc genes. Polischouk AG, et al. **Eur J Cancer** 1997 May;33(6):942–9

Amplification of ERBB oncogenes in squamous cell carcinomas of the head and neck. Rodrigo JP, et al. **Eur J Cancer** 1996 Oct;32A(11):2004–10

SSCP pattern indicative for p53 mutation is related to advanced stage and high-grade of tongue cancer. Atula S, et al. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):222–9

Mutagen sensitivity: enhanced risk assessment of squamous cell carcinoma. Cloos J, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):367–72 (78 ref.)

Discordance of p53 status in matched primary tumours and metastases in head and neck squamous cell carcinoma patients. Kropveld A, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):388–93

Expression of the candidate tumor suppressor gene nm23 in the bronchial system of patients with squamous cell lung cancer. Huwer H, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):206–9

Invasive squamous cell carcinoma of the cervix: is HLA-DQ a disease marker in Jewish patients? Amar A, et al. **Eur J Immunogenet** 1993 Oct;20(5):327–33

Expression of c-erbB-2 protein in keratinocytes of oral mucosal lichen planus and subsequent squamous cell carcinoma. Kilpi A, et al. **Eur J Oral Sci** 1996 Jun; 104(3):278–84

Analysis of the p53 gene mutations in patients with multiple primary cancers of the oesophagus. Mayama T, et al. **Eur J Surg Oncol** 1997 Aug;23(4):298–303

Abnormal c-myc oncogene DNA methylation in human bladder cancer: possible role in tumor progression. Sardi I, et al. **Eur Urol** 1997;31(2):224–30

Argyrophilic nucleolar organizer regions, bromodeoxyuridine labelling index and DNA ploidy in squamous cell carcinoma of the uterine cervix. Gasińska A, et al. **Folia Histochem Cytobiol** 1996;34(2):95–101

Centromeric breakage as a major cause of cytogenetic abnormalities in oral squamous cell carcinoma. Hermsen MA, et al. **Genes Chromosomes Cancer** 1996 Jan;15(1):1–9

Advanced-stage cervical carcinomas are defined by a recurrent pattern of chromosomal aberrations revealing high genetic instability and a consistent gain of chromosome arm 3q. Heselmeyer K, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):233–40

Evidence for multiple tumor suppressor genes on chromosome arm 8p in supraglottic laryngeal cancer. Sunwoo JB, et al. **Genes Chromosomes Cancer** 1996 Jul; 16(3):164–9

Two regions of homozygosity on chromosome 3p in squamous cell carcinoma of the head and neck: comparison with cytogenetic analysis. Buchhagen DL, et al. **Head Neck** 1996 Nov-Dec;18(6):529–37

Cyclin D1 abnormalities and tobacco exposure in head and neck squamous cell carcinoma. Davidson BJ, et al. **Head Neck** 1996 Nov-Dec;18(6):512–21

Loss of heterozygosity studies in squamous cell carcinomas of the head and neck. Ransom DT, et al. **Head Neck** 1996 May-Jun;18(3):248–53

Biomarkers of squamous cell carcinoma of the head and neck. Kim J, et al. **Histol Histopathol** 1997 Jan;12(1):205–18 (259 ref.)

Amplification and expression of the cyclin D1 gene in anal and esophageal squamous cell carcinomas. Sheyn I, et al. **Hum Pathol** 1997 Mar;28(3):270–6

Preferential expression of novel MUC1 tumor antigen isoforms in human epithelial tumors and their tumor-potentiating function. Baruch A, et al. **Int J Cancer** 1997 May 29;71(5):741–9

DNA-damage processing in blood lymphocytes of head-and-neck-squamous-cell-carcinoma patients is dependent on tumor site. Cloos J, et al. **Int J Cancer** 1996 Sep 27;68(1):26–9

High expression of MAGE-3 protein in squamous-cell lung carcinoma [letter] Fischer C, et al. **Int J Cancer** 1997 Jun 11;71(6):1119–21

Microsatellite instability in cervical and endometrial carcinomas. Helland A, et al. **Int J Cancer** 1997 Mar 4; 70(5):499–501

Detection of low-fraction K-ras mutations in primary lung tumors using a sensitive method. Keohavong P, et al. **Int J Cancer** 1997 Apr 22;74(2):162–70

Prevalence and predictive value of p53 mutation in patients with oesophageal squamous cell carcinomas: a prospective clinico-pathological study and survival analysis of 70 patients. Lam KY, et al. **Int J Cancer** 1997 Apr 22; 74(2):212–9

Interphase karyotypic analysis of chromosomes 11, 17 and X in invasive squamous-cell carcinoma of the cervix: morphological correlation with HPV infection. Southern SA, et al. **Int J Cancer** 1997 Mar 4;70(5):502–7

Prevalence of p53 mutations and protein expression in esophageal cancers in southern Thailand. Suwiwat S, et al. **Int J Cancer** 1997 Jul 3;72(1):23–6

Multiple types of aberrations in the p16 (INK4a) and the p15(INK4b) genes in 30 esophageal squamous-cell-carcinoma cell lines. Tanaka H, et al. **Int J Cancer** 1997 Feb 7;70(4):437–42

DNA ploidy and protein synthesis in squamous cell carcinoma cell lines of the head and neck. Görögh T, et al. **J Cancer Res Clin Oncol** 1997;123(1):39–44

p53 gene mutation analysis in porokeratosis and porokeratosis-associated squamous cell carcinoma. Ninomiya Y, et al. **J Dermatol Sci** 1997 Mar;14(3):173–8

Human collagenase-3 is expressed in malignant squamous epithelium of the skin. Airola K, et al. **J Invest Dermatol** 1997 Aug;109(2):225–31

p53 mutation in squamous cell carcinomas from psoriasis patients treated with psoralen + UVA (PUVA). Nataraj AJ, et al. **J Invest Dermatol** 1997 Aug;109(2):238–43

Analysis of clonality by X chromosome inactivation in uterine cervix cancer. Ko HM, et al. **J Korean Med Sci** 1997 Aug;12(4):322–6

Mean nuclear area and chromosomal DNA content of squamous cell carcinomas of the oral cavity using computerized image analysis. Sarker SK, et al. **J Laryngol Otol** 1997 Feb;111(2):141–4

Nuclear DNA content using computerized image cytometry of squamous cell carcinomas of the head and neck. Sarker SK, et al. **J Laryngol Otol** 1997 Jan;111(1):43–7

Genetic instabilities of chromosome 9, 17 and accumulation of p53 overexpression during multistage tumorigesis in head and neck cancer. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S104–12

p53 mutation and locoregional treatment failure in head and neck squamous cell carcinoma. Koch WM, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1580–6

Chromosome 8 allelic loss and the outcome of patients with squamous cell carcinoma of the supraglottic larynx. Scholnick SB, et al. **J Natl Cancer Inst** 1996 Nov 20; 88(22):1676–82

The molecular biology of oral carcinogenesis: toward a tumor progression model. Todd R, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):613–23; discussion 623–5 (96 ref.)

Enhancement of calcyclin gene RNA expression in squamous cell carcinoma of the oral mucosa, but not in benign lesions. Berta GN, et al. **J Oral Pathol Med** 1997 May;26(5):206–10

MTS1 gene mutations in archival oral squamous cell carcinomas. Dawson CD, et al. **J Oral Pathol Med** 1996 Nov;25(10):541–6

Loss of heterozygosity of APC and MCC genes in oral squamous cell carcinomas in Taiwan. Huang JS, et al. **J Oral Pathol Med** 1997 Aug;26(7):322–6

Alterations of p16/CDKN2, p53 and ras genes in oral squamous cell carcinomas and premalignant lesions. Matsuda H, et al. **J Oral Pathol Med** 1996 May;25(5):232–8

p53 gene mutations and HPV infection in primary head and neck squamous cell carcinomas do not correlate with overall survival: a long-term follow-up study. Riethdorf S, et al. **J Oral Pathol Med** 1997 Aug;26(7):315–21

Alterations of tumor suppressor genes and the H-ras oncogene in oral squamous cell carcinoma. Sakata K. **J Oral Pathol Med** 1996 Jul;25(6):302–7

Deletion of the p53 gene in a patient with aggressive burn scar carcinoma. Harland DL, et al. **J Trauma** 1997 Jan; 42(1):104–7

Clonal heterogeneity in human esophageal squamous cell carcinomas on DNA analysis. Hori H, et al. **Jpn J Cancer Res** 1996 Sep;87(9):923–9

Comparison of DNA copy numbers in original oral squamous cell carcinomas and corresponding cell lines by comparative genomic hybridization. Komiyama T, et al. **Jpn J Cancer Res** 1997 May;88(5):476–83

MAD-related genes on 18q21.1, Smad2 and Smad4, are altered infrequently in esophageal squamous cell carcinoma. Maesawa C, et al. **Jpn J Cancer Res** 1997 Apr; 88(4):340–3

No evidence of mutation in the human PTC gene, responsible for nevoid basal cell carcinoma syndrome, in human primary squamous cell carcinomas of the esophagus and lung. Suzuki K, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):225–8

The loss of heterozygosity in retinoblastoma and p53 suppressor genes as a prognostic indicator for head and neck cancer. Gleich LL, et al. **Laryngoscope** 1996 Nov; 106(11):1378–81

Heterogeneity of squamous cell carcinomas of the head and neck--analysis of tumor biologic factors and proliferation rates. Jacob R, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1170–5

Genetic susceptibility to head and neck cancer: interaction between nutrition and mutagen sensitivity. Schantz SP, et al. **Laryngoscope** 1997 Jun;107(6):765–81

Mutation of p53 in squamous cell cancer of the head and neck: relationship to tumor cell proliferation. Wood NB, et al. **Laryngoscope** 1997 Jun;107(6):827–33

p53-independent expression of p21waf1/cip1 in preinvasive and invasive squamous neoplasms of the uterine cervix. Werness BA, et al. **Mod Pathol** 1997 Jun;10(6):578–84

Functional characterization in vivo of mutant p53 molecules derived from squamous cell carcinomas of the head and neck. Cardinali M, et al. **Mol Carcinog** 1997 Feb;18(2):78–88

New strains of inbred SENCAR mice with increased susceptibility to induction of papillomas and squamous cell carcinomas in skin. Hennings H, et al. **Mol Carcinog** 1997 Sep;20(1):143–50

Altered expression of insulin-like growth factor I and its receptor during multistage carcinogenesis in mouse skin. Rho O, et al. **Mol Carcinog** 1996 Oct;17(2):62–9

Uncoordinated regulation of mRNA expression of the three isoforms of transforming growth factor-beta in the mouse skin carcinogenesis model. Rundhaug JE, et al. **Mol Carcinog** 1997 Feb;18(2):115–26

Functional characterization of p53 molecules expressed in human squamous cell carcinomas of the head and neck. Yeudall WA, et al. **Mol Carcinog** 1997 Feb;18(2):89–96

Consistent allelic loss on mouse chromosome 7 distal to tyrosinase in 4-nitroquinoline-1-oxide-induced oral cavity tumors with loss of heterozygosity at Ha-ras-1. Yuan B, et al. **Mol Carcinog** 1997 May;19(1):8–16

p53 gene mutations, and CYP1A1 and GSTM1 genotypes in pulmonary squamous cell carcinomas. Ohshima S, et al. **Mol Pathol** 1997 Apr;50(2):108–10

Detection of subpopulations resistant to DNA-damaging agents in spheroids and murine tumours. Olive PL, et al. **Mutat Res** 1997 Apr 29;375(2):157–65

Infrequency of BRCA2 alterations in head and neck squamous cell carcinoma. Kirkpatrick H, et al. **Oncogene** 1997 May 8;14(18):2189–93

Involvement of c-JUN in the regulation of terminal differentiation genes in normal and malignant keratinocytes. Lohman FP, et al. **Oncogene** 1997 Apr 3;14(13):1623–7

Evidence for the inactivation of multiple replicative lifespan genes in immortal human squamous cell carcinoma keratinocytes. Loughran O, et al. **Oncogene** 1997 Apr 24; 14(16):1955–64

Alterations of the p16 gene in head and neck cancer: frequency and association with p53, PRAD-1 and HPV. Olshan AF, et al. **Oncogene** 1997 Feb 20;14(7):811–8

Deletion mapping of chromosome 4 in head and neck squamous cell carcinoma. Pershouse MA, et al. **Oncogene** 1997 Jan 23;14(3):369–73

Field cancerisation and polyclonal p53 mutation in the upper aero-digestive tract. Waridel F, et al. **Oncogene** 1997 Jan 16;14(2):163–9

A region within murine chromosome 7F4, syntenic to the human 11q13 amplicon, is frequently amplified in 4NQO-induced oral cavity tumors. Yuan B, et al. **Oncogene** 1997 Sep 4;15(10):1161–70

Loss of heterozygosity on murine chromosome 6 in two-stage carcinogenesis: evidence for a conserved tumor suppressor gene. Zenklusen JC, et al. **Oncogene** 1997 Jan 9;14(1):109–14

All-trans retinoic acid induced gene expression and growth inhibition in head and neck cancer cell lines. Cooper MP, et al. **Oral Oncol** 1997 Jul;33(4):270–4

Correlation between p53 mutation and cyclin D1 amplification in had and neck squamous cell carcinoma. Mineta H, et al. **Oral Oncol** 1997 Jan;33(1):42–6

Identification of seven differentially displayed transcripts in human primary and matched metastatic head and neck squamous cell carcinoma cell lines: implications in metastasis and/or radiation response. Patel S, et al. **Oral Oncol** 1997 May;33(3):197–203

Mutated and wild-type p53 expression and HPV integration in proliferative verrucous leukoplakia and oral squamous cell carcinoma. Gopalakrishnan R, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):471–7

DNA ploidy analysis of squamous cell carcinomas of the oral and maxillofacial region: clinical and pathologic correlations. Melchiorri C, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):308–14

Applications of molecular epidemiology to head and neck cancer. Hart TC. **Otolaryngol Clin North Am** 1997 Feb; 30(1):21–34 (73 ref.)

Gene expression in skin tumors induced in hairless mice by chronic exposure to ultraviolet B irradiation. Sato H, et al. **Photochem Photobiol** 1997 May;65(5):908–14

Genetic susceptibility to tumor progression in mouse skin carcinogenesis. Stern MC, et al. **Prog Clin Biol Res** 1996; 395:47–55 (19 ref.)

Determination and drug modification assessed by micronucleus frequency assay of potentially lethal damage repair in quiescent cell populations within murine solid tumors. Masunaga S, et al. **Radiat Med** 1997 Jan-Feb; 15(1):37–43

Early genetic and functional events in the pathogenesis of oral cancer. Prime SS, et al. **Radiat Oncol Investig** 1997; 5(3):93–6 (19 ref.)

Expression of glutathione S-transferase activity and glutathione content in squamous cell carcinoma of bladder associated with schistosomiasis in a population in Egypt. Ghazaly GE, et al. **Scand J Urol Nephrol** 1997 Feb; 31(1):43–7

HLA DQ-DR haplotype and susceptibility to cervical carcinoma: indications of increased risk for development of cervical carcinoma in individuals infected with HPV 18. Allen M, et al. **Tissue Antigens** 1996 Jul;48(1):32–7

Deoxyribonucleic acid flow cytometry of squamous cell carcinoma of the penis. Hoofnagle RF Jr, et al. **W V Med J** 1996 Sep-Oct;92(5):271–3

[The relationship between the high inducibility genotype of CYP450IA1 and lung cancer susceptibility] Pi J, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1996 Feb; 19(1):33–6 (Eng. Abstr.) **(Chi)**

[Expression of p53 gene protein in squamous cell carcinoma and precancerous lesion of vulva] Su B, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):651–3 (Eng. Abstr.) **(Chi)**

[Quantitative analysis of oncogene ras P21 expression in oral precancerous lesion and squamous cell carcinoma] Liu X, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):225–8 **(Chi)**

[Study of heterogeneity in DNA ploidy and its clinical-pathological significance in esophageal squamous cell carcinoma] Yuan Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):159–61 (Eng. Abstr.) **(Chi)**

[Detection of c-Ki-ras oncogene codon 12 point mutations in lung carcinoma, gastric carcinoma and hepatic carcinoma] Cui Q, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):95–8 (Eng. Abstr.) **(Chi)**

[Carcinogenic mechanisms of multiple genes in cervical carcinoma] Huang G, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):5–9 (Eng. Abstr.) **(Chi)**

[Expression and prognostic significance of HLA-class I and II antigens, ICAM-1 and costimulatory molecule B7 in esophageal carcinoma] Stoecklein NH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:785–8 (Eng. Abstr.) **(Ger)**

[Genetic screening of head-neck carcinomas using comparative genomic hybridization (CGH)] Bockmühl U, et al. **Laryngorhinootologie** 1996 Jul;75(7):408–14 (Eng. Abstr.) **(Ger)**

[Allele losses in squamous cell carcinomas of the larynx] Bockmühl U, et al. **Laryngorhinootologie** 1996 Jan; 75(1):48–62 (Eng. Abstr.) **(Ger)**

[Reproducibility of nonradioactive DDRT-PCR method for detection of gene expression in squamous epithelial carcinoma cells of the upper aerodigestive tract] Görögh T, et al. **Laryngorhinootologie** 1997 Jan;76(1):42–5 (Eng. Abstr.) **(Ger)**

[Incidence of point mutations in Ki-ras codon 12 and 13 in squamous epithelial carcinomas of the head-neck region] Rathcke IO, et al. **Laryngorhinootologie** 1996 Aug; 75(8):465–70 (Eng. Abstr.) **(Ger)**

[Detection of differentially expressed genes in head-neck carcinomas] Werner JA, et al. **Laryngorhinootologie** 1997 May;76(5):300–7 (Eng. Abstr.) **(Ger)**

[Receptor mediated gene transfer in squamous epithelial carcinoma of the head-neck area] Wollenberg B, et al. **Laryngorhinootologie** 1997 Jul;76(7):411–4 (Eng. Abstr.) **(Ger)**

[Predictive and prognostic significance of PCNA, p53, bcl-2 and intratumor vessel density in radiochemotherapy of advanced head and neck tumors] Grabenbauer GG. **Strahlenther Onkol** 1997 Mar;173(3):174–5 **(Ger)**

[Detection of human papillomavirus gene sequences in laryngeal tumors and premalignant changes by polymerase chain reaction] Czeglédy J, et al. **Orv Hetil** 1997 Jul 27; 138(30):1891–5 (28 ref.) (Eng. Abstr.) **(Hun)**

[The DNA ploidy in squamous cell carcinomas of the head and neck with particular reference to prognosis] Boiocchi M, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):27–30 (17 ref.) **(Ita)**

[Oncogenes and tumor suppressor genes in head and neck squamous cell carcinomas] Maestro R, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):21–6 (56 ref.) **(Ita)**

[Squamous carcinoma of the gallbladder. Anatomo-clinical study of a case with reference to oncogene expression] Botto Micca F, et al. **Pathologica** 1997 Feb;89(1):77–80 (Eng. Abstr.) **(Ita)**

[Detectability and diagnostic criteria of p53 gene mutations in human oral squamous cell carcinoma using yeast functional assay] Kashiwazaki H. **Hokkaido Igaku Zasshi** 1997 Mar;72(2):211–24 (Eng. Abstr.) **(Jpn)**

[Aberrations of the p 53 gene in roentgenographically occult squamous cell carcinoma of the lung] Endoh C, et al. **Kyobu Geka** 1996 Nov;49(12):990–3 (Eng. Abstr.) **(Jpn)**

[Combined fluorescence in situ hybridization and cytofluorometric analysis of numerical chromosomal aberrations in squamous cell carcinomas of the tongue] Nakai S. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul; 99(7):1026–35 (Eng. Abstr.) **(Jpn)**

[Detailed deletion map of chromosomal arm 9q in esophageal

squamous cell carcinoma] Miura K, et al. **Nippon Rinsho** 1996 Apr;54(4):986–91 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Genetic events during development of esophageal squamous cell carcinoma] Sasaki H, et al. **Nippon Rinsho** 1996 Apr; 54(4):1060–5 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of the p16INK4, p15INK4B genes abnormality and the amplification of cyclin D1 gene in esophageal cancer] Takamura H, et al. **Nippon Rinsho** 1996 Apr;54(4):1043–8 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Interaction between Epstein–Barr virus (EBV) gene expression and antibodies to EBV in nasopharyngeal carcinomas] Furukawa M, et al. **Rinsho Byori** 1996 Sep; 44(9):832–7 (Eng. Abstr.) **(Jpn)**

[Effect of hereditary factors on tolerance for surgical treatment in patients with lung cancer] Spintsyn VA, et al. **Genetika** 1996 May;32(5):691–701 (Eng. Abstr.) **(Rus)**

[Role pf genetic and other biomarkers in the prognostication of postoperative course in patients with lung cancer] Tsybikova EB, et al. **Vestn Ross Akad Med Nauk** 1996; (12):3–7 (Eng. Abstr.) **(Rus)**

[The relation between human papilloma virus and cellular DNA content in epidermoid carcinoma of the head and neck] Rodrigo Tapia JP, et al. **Acta Otorrinolaringol Esp** 1996 Sep–Oct;47(5):343–7 (Eng. Abstr.) **(Spa)**

[Epidermoid carcinoma of the cervix uteri: molecular abnormalities of p53 and rb genes] Wistuba I, et al. **Rev Med Chil** 1996 May;124(5):553–60 (Eng. Abstr.) **(Spa)**

HISTORY

Historical aspects of nonmelanoma skin cancer. Jackson R, et al. **Clin Dermatol** 1995 Nov–Dec;13(6):517–25

IMMUNOLOGY

Presence of the T-cell activation marker OX–40 on tumor infiltrating lymphocytes and draining lymph node cells from patients with melanoma and head and neck cancers. Vetto JT, et al. **Am J Surg** 1997 Sep;174(3):258–65

Interleukin–10 as a possible mediator of immunosuppressive effect in patients with squamous cell carcinoma of the head and neck. Avradopoulos K, et al. **Ann Surg Oncol** 1997 Mar;4(2):184–90

CD40 expression in epidermal tumors. Viac J, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):569–72

Anti–p53 antibodies in serum of smokers and head and neck cancer patients. Wollenberg B, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):413–8

Is favorable prognosis of squamous cell carcinoma of the skin due to efficient immune surveillance? [editorial; comment] Smolle J, et al. **Arch Dermatol** 1997 May; 133(5):645–6. Comment on: Arch Dermatol 1997 May;133(5):585–90.

Inhibition of lymphocyte function by head and neck carcinoma cell line soluble factors. Bailet JW, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):855–62

HLA class I alterations in head and neck squamous cell carcinoma. Murray AK, et al. **Biochem Soc Trans** 1997 May;25(2):266S

Enhanced polymer one–step staining for proliferating cell nuclear antigen in squamous cell carcinoma of the tongue. Sano K, et al. **Biotech Histochem** 1996 Nov;71(6):273–7

An immunohistochemical study of altered immunomodulatory molecule expression in head and neck squamous cell carcinoma. Vora AR, et al. **Br J Cancer** 1997;76(7):836–44

Possible involvement of tumour–derived interleukin–6 in dermatomyositis associated with cervical squamous cell carcinoma [letter] Nakamura S, et al. **Br J Dermatol** 1997 Mar;136(3):475–6

Functional expression of CD11a on CD8+ cells is suppressed in regional lymph nodes with cancer involvement in patients with gastrointestinal carcinoma. Shinkal H, et al. **Cancer** 1996 Oct 15;78(8):1677–85

Establishment of internal–image anti–idiotype monoclonal antibodies to a human antibody to lung cancer. Saito H, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):83–7

p53 serum antibodies as prognostic indicator in head and neck cancer. Werner JA, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):112–6

Prognostic utility of serum alpha–N–acetylgalactosaminidase and immunosuppression resulted from deglycosylation of serum Gc protein in oral cancer patients. Yamamoto N, et al. **Cancer Res** 1997 Jan 15;57(2):295–9

Interactions between autologous CD4+ and CD8+ T lymphocytes and human squamous cell carcinoma of the head and neck. Okada K, et al. **Cell Immunol** 1997 Apr 10;177(1):35–48

HLA–A locus–restricted and tumor–specific CTLs in tumor–infiltrating lymphocytes of patients with non–small cell lung cancer. Seki N, et al. **Cell Immunol** 1997 Feb 1;175(2):101–10

The role of apoptosis in antibody–dependent cell–mediated cytotoxicity against monolayers of human squamous cell carcinoma of the head and neck targets. Sung MW, et al. **Cell Immunol** 1996 Jul 10;171(1):20–9

Serological responses to human papillomavirus type 6 and 16 virus–like particles in patients with cervical neoplastic lesions. Sasagawa T, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):403–10

Simultaneous detection of genetic and immunological markers in non–small cell lung cancer: prediction of metastatic potential of tumor. Zborovskaya I, et al. **Clin Exp Metastasis** 1996 Nov;14(6):490–500

The effects of thymostimulin on immunological function in patients with head and neck cancer. Kerrebijn JD, et al. **Clin Otolaryngol** 1996 Oct;21(5):455–62

Squamous cell carcinoma antigen levels in patients with different stages of laryngeal cancer. Namyslowski G, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S154–6

CD2 related immunoregulation in oral cancer. Balaram P, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):43–6

Invasive squamous cell carcinoma of the cervix: is HLA–DQ a disease marker in Jewish patients? Amar A, et al. **Eur J Immunogenet** 1993 Oct;20(5):327–33

Identification of human skin from a tissue fragment by detection of squamous cell carcinoma–related antigen using an enzyme immunoassay. Kitao T, et al. **Forensic Sci Int** 1996 Dec 2;83(2):81–6

Assignment of the squamous cell carcinoma antigen locus (SCC) to 18q21 by in situ hybridization. Kuwano A, et al. **Genomics** 1995 Dec 10;30(3):626

Relationship between squamous cell carcinoma antigen levels and tumor volumes in patients with cervical carcinomas undergoing neoadjuvant chemotherapy. Kim BG, et al. **Gynecol Oncol** 1996 Oct;63(1):105–13

Thymostimulin enhancement of T–cell infiltration into head and neck squamous cell carcinoma. Kerrebijn JD, et al. **Head Neck** 1996 Jul–Aug;18(4):335–42

Translation initiation factor eIF–4gamma is encoded by an amplified gene and induces an immune response in squamous cell lung carcinoma. Brass N, et al. **Hum Mol Genet** 1997 Jan;6(1):33–9

Tumor–associated eosinophilic infiltrate of cervical cancer is indicative for a less effective immune response. van Driel WJ, et al. **Hum Pathol** 1996 Sep;27(9):904–11

A CASP–8 mutation recognized by cytolytic T lymphocytes on a human head and neck carcinoma. Mandruzzato S, et al. **J Exp Med** 1997 Aug 29;186(5):785–93

Regional immunosuppression in esophageal squamous cancer: evidence from functional studies with matched lymph nodes. O'Sullivan GC, et al. **J Immunol** 1996 Nov 15; 157(10):4717–20

Relation between HLA antigens and skin cancer in renal transplant recipients in Queensland, Australia. Bouwes Bavinck JN, et al. **J Invest Dermatol** 1997 May; 108(5):708–11

Changes in the expression of alpha v integrins in oral squamous cell carcinomas. Jones J, et al. **J Oral Pathol Med** 1997 Feb;26(2):63–8

Cytotoxicity of histocompatibility leukocyte antigen–DR8–restricted CD4 killer T cells against human autologous squamous cell carcinoma. Miyazaki A, et al. **Jpn J Cancer Res** 1997 Feb;88(2):191–7

Transplantation analyses of the immunogenicity of epidermal tumors generated in murine skin two–stage carcinogenesis protocols. Reiners JJ Jr, et al. **Mol Carcinog** 1997 Sep; 20(1):48–57

Beta 2–microglobulin and HLA–DR expression in relation to the presence of Epstein–Barr virus in nasopharyngeal carcinomas. Kouvidou C, et al. **Pathobiology** 1995; 63(6):320–7

Abnormal expression of galactosyl(alpha 1–>3) galactose epitopes in squamous cells of the uterine cervix infected by human papillomavirus. Tremont–Lukats IW, et al. **Pathobiology** 1996;64(5):239–46

Expression of mucin antigens and Lewis X–related antigens in carcinomas and dysplasia of the pharynx and larynx. Itoh T, et al. **Pathol Int** 1996 Sep;46(9):646–55

Infiltration by immunocompetent cells in early stage invasive carcinoma of the uterine cervix: a prognostic study. Bethwaite PB, et al. **Pathology** 1996 Nov;28(4):321–7

Proliferating cell nuclear antigen (PCNA) expression in laryngeal squamous cell carcinomas. An immunohistochemical study. Kram A, et al. **Pol J Pathol** 1996;47(4):183–7

A testicular antigen aberrantly expressed in human cancers detected by autologous antibody screening. Chen YT, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1914–8

Spontaneous human squamous cell carcinomas are killed by a human cytotoxic T lymphocyte clone recognizing a wild–type p53–derived peptide. Röpke M, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14704–7

Tonsillar carcinoma in the early postoperative course following heart transplantation. Gummert JF, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):355–7

[Determination of red–cell immunology in patients with laryngeal carcinoma] Sun Y, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(6):351–3 (Eng. Abstr.) **(Chi)**

[A study of HIA–DR antigen expression in nasopharyngeal carcinoma and its relation with clinical pathology and prognosis] Liu B, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):162–4 (Eng. Abstr.) **(Chi)**

[Monoclonal antibodies against squamous epithelial carcinomas of the upper aerodigestive tract] Görögh T, et al. **Laryngorhinootologie** 1996 Nov;75(11):677–81 (Eng. Abstr.) **(Ger)**

[Illness stage and IgA–anti–Fab/F(ab')2 autoantibody activity in serum of patients with malignant head–neck tumors] Lorenz KJ, et al. **Laryngorhinootologie** 1996 Dec; 75(12):764–8 (Eng. Abstr.) **(Ger)**

[Antibody formation to cellular p53 protein in patients with squamous cell carcinomas of the upper respiratory and digestive system] Maass JD, et al. **Laryngorhinootologie** 1996 Jan;75(1):53–6 (Eng. Abstr.) **(Ger)**

[Significance of p53, PCNA and Ki–67 in the prognosis of squamous cell carcinoma of the oral cavity] Sommer T, et al. **Laryngorhinootologie** 1997 Mar;76(3):189–96 (Eng. Abstr.) **(Ger)**

[Human squamous cell carcinoma regression antigen] Ito K, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec; 18(6):616–9 (7 ref.) **(Jpn)**

[Interaction between Epstein–Barr virus (EBV) gene expression and antibodies to EBV in nasopharyngeal carcinomas] Furukawa M, et al. **Rinsho Byori** 1996 Sep; 44(9):832–7 (Eng. Abstr.) **(Jpn)**

[Evaluation of SCC antigen in patients with advanced cervix cancer treated with radiation] Roszak A, et al. **Ginekol Pol** 1996 Sep;67(9):457–9 (Eng. Abstr.) **(Pol)**

[An attempt of immunological monitoring of patients with laryngeal carcinoma by flow cytometry] Zeromski J, et al. **Otolaryngol Pol** 1996;50(4):356–62 (Eng. Abstr.) **(Pol)**

METABOLISM

The effect of tumor size on necrosis and polarographically measured pO2. Milross CG, et al. **Acta Oncol** 1997; 36(2):183–9

Kinetics of [methyl–11C]thymidine in patients with squamous cell carcinoma of the head and neck. van Eijkeren ME, et al. **Acta Oncol** 1996;35(6):737–41

Final report of a randomized controlled study with streptococcal preparation OK–432 as a supplementary immunopotentiator for laryngeal cancer. Kimura T, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:135–41

Differential expression of the monocyte chemoattractant protein–1 gene in human papillomavirus–16–infected squamous intraepithelial lesions and squamous cell carcinomas of the cervix uteri. Riethdorf L, et al. **Am J Pathol** 1996 Nov;149(5):1469–76

Correlated expression of matrix metalloproteinases and ets family transcription factor E1A–F in invasive oral squamous–cell–carcinoma–derived cell lines. Shindoh M, et al. **Am J Pathol** 1996 Mar;148(3):693–700

Differentiation–associated overexpression of the cyclin–dependent kinase inhibitor p21waf–1 in human cutaneous squamous cell carcinoma. Tron VA, et al. **Am J Pathol** 1996 Oct;149(4):1139–46

Production of cytokeratin 19 fragment by human squamous lung cancer cell lines. Satoh H, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):597–604

Decreased expression of transforming growth factor beta receptors on head and neck squamous cell carcinoma tumor cells. Eisma RJ, et al. **Am J Surg** 1996 Dec;172(6):641–5

Metoclopramide as a modulator of cisplatin: effects on pharmacokinetcs and cisplatin–DNA adducts in tumor and normal tissue. Johnsson A, et al. **Anticancer Drugs** 1996 Jun;7(4):483–8

p53, WAF1/CIP1 and mdm2 expression in skin lesions associated with human papillomavirus and human immunodeficiency virus. Arany I, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1281–5

p53 overexpression and human papillomavirus (HPV) infection in oesophageal squamous cell carcinomas derived from a high–incidence area in China. Chang F, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):709–15

Gene expression of granulocyte colony stimulating factor (G–CSF) in non–small cell lung cancer. Nakamura M, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):573–6

Involvement of Sonic hedgehog in the cell growth of LK–2 cells, human lung squamous carcinoma cells. Fujita E, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):658–64

Requirement for epidermal growth factor receptor tyrosine kinase and for 12–lipoxygenase activity in the expression of 12–lipoxygenase in human epidermoid carcinoma cells. Hagmann W, et al. **Biochem Pharmacol** 1997 Apr 4; 53(7):937–42

Cathepsin D in laryngeal carcinoma. preliminary report. Resta L, et al. **Boll Soc Ital Biol Sper** 1995 Sep–Oct; 71(9–10):257–61

Expression of the E–cadherin–catenin cell adhesion complex in primary squamous cell carcinomas of the head and neck and their nodal metastases. Andrews NA, et al. **Br J Cancer** 1997;75(10):1474–80

Retinoid metabolism and all–trans retinoic acid–induced growth inhibition in head and neck squamous cell carcinoma cell lines. Braakhuis BJ, et al. **Br J Cancer** 1997; 76(2):189–97

Fas receptor is expressed in human lung squamous cell carcinomas, whereas bcl–2 and apoptosis are not pronounced: a preliminary report. Hellquist HB, et al. **Br J Cancer** 1997;76(2):175–9

Oxygen tension and vascular density in human cervix carcinoma. Lyng H, et al. **Br J Cancer** 1996 Nov; 74(10):1559–63

Extranodal connective tissue invasion and the expression of desmosomal glycoprotein 1 in squamous cell carcinoma of the oesophagus. Natsugoe S, et al. **Br J Cancer** 1997; 75(6):892–7

Altered distribution and synthesis of laminin–5 (kalinin) in oral lichen planus, epithelial dysplasias and squamous cell carcinomas. Kainulainen T, et al. **Br J Dermatol** 1997 Mar;

136(3):331–6
Proliferation markers Ki67 and PCNA in cutaneous squamous cell carcinomas: lack of prognostic value [letter] Kanitakis J, et al. **Br J Dermatol** 1997 Apr;136(4):643–4
Decreased E-cadherin expression is associated with haematogenous recurrence and poor prognosis in patients with squamous cell carcinoma of the oesophagus. Tamura S, et al. **Br J Surg** 1996 Nov;83(11):1608–14
Expression of bcl-2 and p53 oncoproteins in schistosomiasis-associated transitional and squamous cell carcinoma of urinary bladder. Chaudhary KS, et al. **Br J Urol** 1997 Jan;79(1):78–84
Vascular endothelial growth factor expression in primary esophageal squamous cell carcinoma. Association with angiogenesis and tumor progression. Inoue K, et al. **Cancer** 1997 Jan 15;79(2):206–13
Expression of bcl-2 protein in esophageal squamous cell carcinomas and its association with lymph node metastasis. Ohbu M, et al. **Cancer** 1997 Apr 1;79(7):1287–93
CYFRA 21-1 is a useful marker for esophageal squamous cell carcinoma. Yamamoto K, et al. **Cancer** 1997 May 1; 79(9):1647–55
Cisplatin pharmacokinetics and pharmacodynamics in patients with squamous-cell carcinoma of the head/neck or esophagus. Johnsson A, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):25–33
Biokinetics of indium-111-bieomycin complex in head and neck cancer--implementations for radiochemotherapy. Kairemo KJ, et al. **Cancer Detect Prev** 1997;21(1):83–90
Characterization of a high-affinity monoclonal antibody specific for CD44v6 as candidate for immunotherapy of squamous cell carcinomas. Heider KH, et al. **Cancer Immunol Immunother** 1996 Dec;43(4):245–53
Rapid elimination of mouse/human chimeric monoclonal antibodies in nude mice. van Gog FB, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):103–11
Protein phosphatase-2A association with microtubules and its role in restricting the invasiveness of human head and neck squamous cell carcinoma cells. Meisinger J, et al. **Cancer Lett** 1997 Jan 1;111(1–2):87–95
G1 phase accumulation induced by UCN-01 is associated with dephosphorylation of Rb and CDK2 proteins as well as induction of CDK inhibitor p21/Cip1/WAF1/Sdi1 in p53-mutated human epidermoid carcinoma A431 cells. Akiyama T, et al. **Cancer Res** 1997 Apr 15;57(8):1495–501
Prognostic role of the cyclin-dependent kinase inhibitor p27 in non-small cell lung cancer. Esposito V, et al. **Cancer Res** 1997 Aug 15;57(16):3381–5
Change in ascorbate radical production in an irradiated experimental tumor with increased tumor size. Isoda H, et al. **Cancer Res** 1996 Dec 15;56(24):5741–4
Regulation of CD44v6-containing isoforms during proliferation of normal and malignant epithelial cells. Soukka T, et al. **Cancer Res** 1997 Jun 1;57(11):2281–9
Increased expression of the P27KIP1 protein in human esophageal cancer cell lines that over-express cyclin D1. Doki Y, et al. **Carcinogenesis** 1997 Jun;18(6):1139–48
Retinoic acid and IFN inhibition of cell proliferation is associated with apoptosis in squamous carcinoma cell lines: role of IRF-1 and TGase II-dependent pathways. Giandomenico V, et al. **Cell Growth Differ** 1997 Jan; 8(1):91–100
Modification of growth and tumorigenicity in epidermal cell lines by DNA-mediated gene transfer of M(r) 27,000 heat shock protein (hsp27). Kindas-Mügge I, et al. **Cell Growth Differ** 1996 Sep;7(9):1167–74
p53-binding proteins in squamous cell carcinoma and normal human keratinocytes. Kumar MG, et al. **Cell Growth Differ** 1995 Dec;6(12):1601–8
Comparison of mathematical formulas used for estimation of DNA synthesis time of bromodeoxyuridine-labelled cell populations with different proliferative characteristics. Johansson MC, et al. **Cell Prolif** 1996 Oct;29(10):525–38
Expression of p53 gene in oral squamous cell carcinoma and its relation with clinical and pathological parameters and prognosis of patients. Mao C, et al. **Chin Med Sci J** 1995 Dec;10(4):199–203
Adhesion properties, intermediate filaments and malignant behaviour of head and neck squamous cell carcinoma cells in vitro. Tomson AM, et al. **Clin Exp Metastasis** 1996 Nov; 14(6):501–11
MIB-1 and involucrin expression in laryngeal squamous carcinoma: the relationship to host and tumour factors and survival. Roland NJ, et al. **Clin Otolaryngol** 1996 Oct; 21(5):429–38
Epidermal fatty-acid-binding protein in psoriasis, basal and squamous cell carcinomas: an immunohistological study. Masouyé I, et al. **Dermatology** 1996;192(3):208–13
A midregion parathyroid hormone-related peptide mobilizes cytosolic calcium and stimulates formation of inositol trisphosphate in a squamous carcinoma cell line. Orloff JJ, et al. **Endocrinology** 1996 Dec;137(12):5376–85
Differential expression of bcl-2 and bax in squamous cell carcinomas of the oral cavity. Jordan RC, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):394–400
Absence of retinoblastoma gene product in human primary oral cavity carcinomas. Pavelic ZP, et al. **Eur J Cancer B Oral Oncol** 1996 Sep;32B(5):347–51
Cytokeratin expression in squamous cell carcinomas of the tongue and alveolar mucosa. Vaidya MM, et al. **Eur J Cancer B Oral Oncol** 1996 Sep;32B(5):333–6
Altered parathyroid hormone-related protein secretion and mRNA expression in squamous carcinoma cells in vitro. Gröne A, et al. **Eur J Endocrinol** 1996 Oct;135(4):498–505
Is the binding of the lectin Helix pomatia agglutinin (HPA) of prognostic relevance in tumours of the upper aerodigestive tract? Schumacher DU, et al. **Eur J Surg Oncol** 1996 Dec;22(6):618–20
Regulation of parathyroid hormone-related protein secretion and mRNA expression in normal human keratinocytes and a squamous carcinoma cell line. Weckmann MT, et al. **Exp Cell Res** 1997 Apr 10;232(1):79–89
Cytokeratins and the evaluation of tumor differentiation in squamous lesions of the uterine cervix. Nair SA, et al. **Gen Diagn Pathol** 1997 Jul;143(1):15–22
Abnormal expression and mutation of p53 in cervical cancer--a study at protein, RNA and DNA levels. Ngan HY, et al. **Genitourin Med** 1997 Feb;73(1):54–8
Epidermal growth factor receptor in vulvar malignancies and its relationship to metastasis and patient survival. Johnson GA, et al. **Gynecol Oncol** 1997 Jun;65(3):425–9
Serum levels of soluble intercellular adhesion molecule-1 (ICAM-1) and the expression of ICAM-1 mRNA in uterine cervical cancer. Nasu K, et al. **Gynecol Oncol** 1997 May;65(2):304–8
Granulocyte colony stimulating factor-producing tongue carcinoma. Horii A, et al. **Head Neck** 1997 Jul;19(4):351–6
Expression of p53 protein in glandular differentiation admixed with squamous cell carcinoma of the esophagus. Kuwano H, et al. **Hepatogastroenterology** 1997 Jan-Feb; 44(13):170–4
Biomarkers of squamous cell carcinoma of the head and neck. Kim J, et al. **Histol Histopathol** 1997 Jan;12(1):205–18 (259 ref.)
p53 protein expression in laryngeal squamous cell carcinomas bearing wild-type and mutated p53 gene. Pruneri G, et al. **Histopathology** 1996 Jun;28(6):513–9
Keratin expression in anal carcinoma: an immunohistochemical study. Williams GR, et al. **Histopathology** 1997 May;30(5):443–50
MN antigen expression in normal, preneoplastic, and neoplastic esophagus: a clinicopathological study of a new cancer-associated biomarker. Turner JR, et al. **Hum Pathol** 1997 Jun;28(6):740–4
PCNA--a cell proliferation marker in vocal cord cancer. Part II: Recurrence in malignant laryngeal lesions. Broich G, et al. **In Vivo** 1996 Mar-Apr;10(2):175–8
Immunohistochemical detection of p53 in non-malignant and malignant oral lesions associated with snuff dipping in the Sudan and Sweden. Ibrahim SO, et al. **Int J Cancer** 1996 Dec 11;68(6):749–53
Expression of cytoplasmic retinoic acid-binding proteins and nuclear receptors in squamous-cell carcinomas in vitro. Kley J, et al. **Int J Cancer** 1997 Feb 7;70(4):478–80
Human tenascin-C: identification of a novel type III repeat in oral cancer and of novel splice variants in normal, malignant and reactive oral mucosae. Mighell AJ, et al. **Int J Cancer** 1997 Jul 17;72(2):236–40
Heparan sulfate proteoglycan expression in human lung-cancer cells. Nackaerts K, et al. **Int J Cancer** 1997 Jun 20;74(3):335–45
Stromal fibroblasts influence oral squamous-cell carcinoma cell interactions with tenascin-C. Ramos DM, et al. **Int J Cancer** 1997 Jul 17;72(2):369–76
Differences in the pharmacokinetics of 13-cis retinoic acid in cancer patients. Waladkhani AR, et al. **Int J Cancer** 1997 Feb 7;70(4):494–5
Bioluminescence imaging of metabolites in a human tumour xenograft after treatment with hyperthermia and/or the radiosensitizer pimonidazole. Tamulevicius P, et al. **Int J Hyperthermia** 1997 Mar-Apr;13(2):235–45
Tumor type and vascularity: important variables in infusional brachytherapy with colloidal 32P. Nguyen H, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):481–7
The redistribution of cortactin into cell-matrix contact sites in human carcinoma cells with 11q13 amplification is associated with both overexpression and post-translational modification. van Damme H, et al. **J Biol Chem** 1997 Mar 14;272(11):7374–80
DNA ploidy and protein synthesis in squamous cell carcinoma cell lines of the head and neck. Görögh T, et al. **J Cancer Res Clin Oncol** 1997;123(1):39–44
Cyclin D1, p53, mdm2, and Ki67 protein expression in preneoplastic lesions of the larynx. Capaccio P, et al. **J Chemother** 1997 Apr;9(2):113–4
p53 overexpression and mutation, chemoresistance and patient survival in oral and maxillofacial squamous cell carcinoma. Cutilli T, et al. **J Chemother** 1997 Apr; 9(2):123–4
Bcl-2 expression is related to poor differentiation and advanced clinical stage in laryngeal squamous cell carcinoma. Pignataro L, et al. **J Chemother** 1997 Apr; 9(2):115–6
Ectopic production of intact parathyroid hormone by a squamous cell lung carcinoma in vivo and in vitro. Nielsen PK, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3793–6
p53 protein expression in malignant, pre-malignant and non-malignant lesions of the lip. Crosthwaite N, et al. **J Clin Pathol** 1996 Aug;49(8):648–53
Less expression of cyclin E in cutaneous squamous cell carcinomas than in benign and premalignant keratinocytic lesions. Bito T, et al. **J Cutan Pathol** 1997 May;24(5):305–8
Keratoacanthoma and squamous cell carcinoma: study of PCNA and Le(Y) expression. Tsuji T. **J Cutan Pathol** 1997 Aug;24(7):409–15
Interleukin-1 and lipopolysaccharide enhance intercellular adhesion molecule-1 expression in cell lines of human squamous cell carcinoma. Fujisawa H, et al. **J Dermatol Sci** 1997 Feb;14(2):109–14
The overexpression of p53 and proliferative activity in precancerous and cancerous lesions of oral squamous epithelium. Ichikawa M, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):141–6
Cyclin D1 protein expression is related to clinical progression in laryngeal squamous cell carcinomas. Capaccio P, et al. **J Laryngol Otol** 1997 Jul;111(7):622–6
p53 and bcl-2 expression and argyrophilic nucleolar organizer regions in patients with malignant maxillary sinus tumours. Nakashima T, et al. **J Laryngol Otol** 1997 Jan; 111(1):38–42
Changes in the expression of alpha v integrins in oral squamous cell carcinomas. Jones J, et al. **J Oral Pathol Med** 1997 Feb;26(2):63–8
Expression of p53 in oesophageal squamous epithelium from surgical specimens resected for squamous cell carcinoma of the oesophagus, with special reference to uninvolved mucosa. Mandard AM, et al. **J Pathol** 1997 Feb; 181(2):153–7
Overexpression of p53 in normal oral mucosa of oral cancer patients does not necessarily predict further malignant disease. Ogden GR, et al. **J Pathol** 1997 Jun;182(2):180–4
Down-regulation of bcl-2 expression is closely related to squamous differentiation and progesterone therapy in endometrial carcinomas. Saegusa M, et al. **J Pathol** 1997 Aug;182(4):429–36
Measurements by fluorescence microscopy of the time-dependent distribution of meso-tetra-hydroxyphenylchlorin in healthy tissues and chemically induced "early" squamous cell carcinoma of the Syrian hamster cheek pouch. Andrejevic S, et al. **J Photochem Photobiol B** 1996 Nov;36(2):143–51
p53 protein immunoexpression in esophageal squamous cell carcinoma and adjacent epithelium. Chaves P, et al. **J Surg Oncol** 1997 May;65(1):3–9
Correlated expression of glutathione S-transferase-pi and c-Jun or other oncogene products in human squamous cell carcinomas of the head and neck: relevance to relapse after radiation therapy. Miura K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):143–51
Quantitative analysis of cyclin D1 messenger RNA expression in head and neck squamous cell carcinomas. Monden N, et al. **Jpn J Cancer Res** 1997 Jul;88(7):660–8
Intracellular diacylglycerol: a mitogenic second messenger proposable as marker of transformation in squamous cell carcinoma of the lung. Casamassima F, et al. **Lung Cancer** 1996 Sep;15(2):161–70
Is thrombomodulin useful as a tumor marker of a lung cancer? Tamura A, et al. **Lung Cancer** 1996 Sep;15(2):189–95
MDM-2 oncoprotein overexpression in laryngeal squamous cell carcinoma: association with wild-type p53 accumulation. Pruneri G, et al. **Mod Pathol** 1997 Aug; 10(8):785–92
Importance of glycolipid synthesis for butyric acid-induced sensitization to shiga toxin and intracellular sorting of toxin in A431 cells. Sandvig K, et al. **Mol Biol Cell** 1996 Sep; 7(9):1391–404
Perturbation in connexin 43 and connexin 26 gap-junction expression in mouse skin hyperplasia and neoplasia. Sawey MJ, et al. **Mol Carcinog** 1996 Oct;17(2):49–61
Expression of a novel mRNA in human head and neck squamous cell carcinoma cells. Werner JA, et al. **Mol Pathol** 1997 Apr;50(2):82–6
Functional consequences of reduced retinoic acid receptor gamma expression in a human squamous cell carcinoma line. Monzon RI, et al. **Mol Pharmacol** 1997 Mar; 51(3):377–82
Influence of hypoxia on tracer accumulation in squamous-cell carcinoma: in vitro evaluation for PET imaging. Minn H, et al. **Nucl Med Biol** 1996 Nov; 23(8):941–6
Clonal variation of p53 expression and proliferative phenotype in A253 squamous carcinoma cells. Galbraith SC, et al. **Oncol Res** 1996;8(9):353–61
p53 In biopsies of oral squamous cell carcinoma. A comparative study with a malignancy grading system. De Araújo VC, et al. **Oral Oncol** 1997 Jan;33(1):5–9
Correlation of lectin binding with lymph node metastasis in oral cancers. Remani P, et al. **Oral Oncol** 1997 Jan; 33(1):19–22
Transforming growth factor-alpha overexpression in proliferative verrucous leukoplakia and oral squamous cell carcinoma: an immunohistochemical study. Kannan R, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):69–74
Suppressive factor or factors derived from head and neck squamous cell carcinoma induce apoptosis in activated lymphocytes. Billings KR, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):458–65
Lung squamous cell carcinoma producing both parathyroid hormone-related peptide and granulocyte colony stimulating factor. Furihata M, et al. **Pathol Int** 1996 May; 46(5):376–9
Expression of Phaseolus vulgaris leukoagglutinin-binding oligosaccharides in oral squamous cell carcinoma: possible association with the metastatic potential. Tanda N, et al. **Pathol Int** 1996 Sep;46(9):639–45

Cytokeratin expression in preneoplastic lesions and early squamous cell carcinoma of the bronchi. Fisseler-Eckhoff A, et al. **Pathol Res Pract** 1996 Jun;192(6):552–9

Distribution of aluminum phthalocyanine disulfonate in an oral squamous cell carcinoma model. In vivo fluorescence imaging compared with ex vivo analytical methods. Witjes MJ, et al. **Photochem Photobiol** 1997 Apr;65(4):685–93

Prostaglandin E2-protein kinase A signaling and protein phosphatases-1 and -2A regulate human head and neck squamous cell carcinoma motility, adherence, and cytoskeletal organization. Lozano Y, et al. **Prostaglandins** 1996 Jan;51(1):35–48

Enhancement of prostaglandin E2 production by epidermal growth factor requires the coordinate activation of cytosolic phospholipase A2 and cyclooxygenase 2 in human squamous carcinoma A431 cells. Sato T, et al. **Prostaglandins** 1997 May;53(5):355–69

Carbon-13 magnetic resonance spectroscopy of glucose metabolism in SCC-VII tumors. Furusawa M, et al. **Radiat Med** 1997 May-Jun;15(3):149–53

Pharmacokinetics and radiosensitizing effect of PR-350. Hirokawa K, et al. **Radiat Med** 1997 Jan-Feb;15(1):45–9

Preferential cytoplasmic localization of p34cdc2 in recurrent human squamous cell carcinoma after radiotherapy. Cohen-Jonathan E, et al. **Radiat Res** 1997 Mar; 147(3):277–83

Immunohistochemical expression of bcl-2 protein in squamous cell carcinoma and basaloid carcinoma of the esophagus. Koide N, et al. **Surg Today** 1997;27(8):685–91

Evaluation of the prognostic significance of nm23/NDP kinase and cathepsin D in anal carcinomas. An immunohistochemical study. Holm R, et al. **Virchows Arch** 1996 May;428(2):85–9

Expression of the cyclin dependent kinase inhibitor p21WAF1/CIP1 in oesophageal squamous cell carcinomas. Ohashi K, et al. **Virchows Arch** 1997 May;430(5):389–95

[Expression of P53 protein in laryngeal carcinoma and its clinical significance] Wang D, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(6):354–6 (Eng. Abstr.) **(Chi)**

[Intratumor pO2, S-phase fraction and p53 status in cervix carcinomas] Hänsgen G, et al. **Strahlenther Onkol** 1997 Jul; 173(7):385–7 (Eng. Abstr.) **(Ger)**

[Glycohistochemical analysis of apoptotic bodies in eyelid tumor] Uehara F, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jul;101(7):611–6 (Eng. Abstr.) **(Jpn)**

[Double primary lung cancers producing alpha-fetoprotein] Bessho T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2216–20 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Case of G-CSF producing gallbladder neoplasm] Nakajima Y, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10; 85(11):1931–3 **(Jpn)**

MICROBIOLOGY

Adherence of Aeromonas caviae to human cell lines Hep-2 and Caco-2. Thornley JP, et al. **J Med Microbiol** 1996 Dec;45(6):445–51

MORTALITY

Search for prognostic factors in head and neck cancer. Kraxner H, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 527:145–9

A retrospective comparison of treatment outcome in the posterior and anterior tongue. Nason RW, et al. **Am J Surg** 1996 Dec;172(6):665–70

Prognostic factors and outcome in craniofacial surgery for malignant cutaneous tumors involving the anterior skull base. Dias FL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):738–42

Prognostic value of histologic findings in neck dissections for squamous cell carcinoma. Pinsolle J, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):145–8

An audit of the women who died during 1994 from cancer of the cervix in Victoria, Australia. Mitchell H, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):73–6

Cervical cancer in New South Wales women: five-year survival, 1972 to 1991. Taylor R, et al. **Aust N Z J Public Health** 1996 Aug;20(4):413–20

Deaths due to squamous cell carcinoma in Australia: is there a case for a public health intervention? Rosenblatt L, et al. **Australas J Dermatol** 1996 Feb;37(1):26–9

Morphometric evaluation of argyrophilic nucleolar organizer region is useful in predicting long-term survival in squamous cell carcinoma of the lung. Antonangelo L, et al. **Chest** 1997 Jan;111(1):110–4

Prognostic significance of lymph node metastasis in surgical resection of esophageal cancer. Sun K, et al. **Chin Med J (Engl)** 1996 Jan;109(1):89–92

Long-term survival and symptom palliation in small primary bronchial carcinomas following treatment with intraluminal radiotherapy alone. Gollins SW, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):239–46

Disease-specific survival and locoregional control in tonsillar carcinoma. Mak-Kregar S, et al. **Clin Otolaryngol** 1996 Dec;21(6):550–6

Prognostic differences between early squamous-cell and adenocarcinoma of the esophagus. Hölscher AH, et al. **Dis Esophagus** 1997 Jul;10(3):179–84 (52 ref.)

A multivariate analysis of clinical and morphological prognostic factors in squamous cell carcinoma of the vulva. Smyczek-Gargya B, et al. **Gynecol Obstet Invest** 1997; 43(4):261–7

Prognostic value of vascular endothelial growth factor and its receptor Flt-1 in squamous cell lung cancer. Volm M, et al. **Int J Cancer** 1997 Feb 20;74(1):64–8

Hyperthermia combined with chemotherapy and irradiation for the prolongation of the postoperative prognosis in the patients with esophageal carcinoma invading neighbouring structures. Nozoe T, et al. **Int Surg** 1996 Jan-Mar; 81(1):21–6

Does TANIS (T And N Integer Score) help predict survival? Hall SF, et al. **J Otolaryngol** 1997 Feb;26(1):8–12

Prognostic factors affecting outcome in lower gingival carcinoma. Overholt SM, et al. **Laryngoscope** 1996 Nov; 106(11):1335–9

Appraisal of ten-year survival following esophagectomy for carcinoma of the esophagus with emphasis on quality of life. Baba M, et al. **World J Surg** 1997 Mar-Apr;21(3):282–5; discussion 286

[Metastatic cervical adenopathies of unknown primary site. Long-term course] Percodani J, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(4):212–8 (23 ref.) (Eng. Abstr.) **(Fre)**

[Prognostic factors of lateral wall oropharyngeal squamous cell carcinoma--retrospective study of 79 patients] Nigauri T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Sep; 99(9):1190–9 (Eng. Abstr.) **(Jpn)**

NURSING

Surgical treatment for intranasal squamous cell carcinoma. McEwen DR, et al. **AORN J** 1996 Jan;63(1):163–75; quiz 176, 179, 181–2 (15 ref.)

Tongue reconstruction procedures for treatment of cancer. Truelson JM, et al. **AORN J** 1997 Mar;65(3):528, 531–4, 537 passim

Elastic net secures facial dressing comfortably. Myers JS, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1484

PARASITOLOGY

Trichinosis associated with carcinoma of the tongue: case report. Cheung LK, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jul;84(1):32–4

PATHOLOGY

Anesthesia of a patient with an obstructing tracheal mass: a new way to manage the airway. Licker M, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):84–6

Negative cervical smears before CIN 3/carcinoma. Reevaluation with the PAPNET Testing System. Doornewaard H, et al. **Acta Cytol** 1997 Jan-Feb;41(1):74–8

Aspiration cytology of glycogen-rich squamous cell carcinoma: significance of a tigroid smear background [letter] Dusenbery D. **Acta Cytol** 1997 May-Jun; 41(3):941–2

Fine needle aspiration cytodiagnosis of primary and metastatic squamous cell carcinoma of the breast. Gupta RK. **Acta Cytol** 1997 May-Jun;41(3):692–6

Frequency of tumor diathesis in smears from women with squamous cell carcinoma of the cervix. Rushing L, et al. **Acta Cytol** 1997 May-Jun;41(3):781–5

Fine needle aspiration biopsy findings in lymphoepithelial carcinoma of salivary gland. Safneck JR, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1023–30

Comparative nuclear morphometric analysis of aggressive and non-aggressive squamous cell carcinomas of the skin. Narvaez D, et al. **Acta Derm Venereol** 1997 Mar;77(2):115–7

Micro-invasive squamous cell carcinoma arising in a pre-existing intraventricular epidermoid cyst. Case report and literature review. Bayindir C, et al. **Acta Neurochir (Wien)** 1996;138(8):1008–12

Malignant change in an intradiploic epidermoid cyst. Hoeffel C, et al. **Acta Neurol Belg** 1997 Mar;97(1):45–9

The effect of tumor size on necrosis and polarographically measured pO2. Milross CG, et al. **Acta Oncol** 1997; 36(2):183–9

The role of FDG-PET in the preoperative assessment of N-staging in head and neck cancer. Benchaou M, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):332–5

Immunohistochemical and quantitative changes in salivary EGF, amylase and haptocorrin following radiotherapy for oral cancer. Christensen ME, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):137–43

Significance of adhesion molecules as biological prognostic factor in locally advanced laryngeal squamous cell carcinomas. Cortesina G, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):350–2

IL-1 and TNF-alpha but no IL-2 expression is found in squamous cell carcinomas of the head and neck by RT-PCR. Knerer B, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):132–6

Lectin binding characteristics of squamous cell carcinomas of the head and neck. Lalwani AK, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):125–31

Presence of human papillomavirus in squamous cell laryngeal carcinomas. A study of thirty-nine cases using polymerase chain reaction and in situ hybridization. Lie ES, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):900–5

Prognostic factors for head and neck tumor recurrence. Magnano M, et al. **Acta Otolaryngol (Stockh)** 1995 Nov; 115(6):833–8

Hyperplastic lesions of the larynx. Experience of the Barcelona group. Cardesa A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:43–6

Potential biomarkers in predicting progression of epithelial hyperplastic lesions of the larynx. Gallo O, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:30–8

Molecular biopathology of metaplastic, dysplastic, and neoplastic laryngeal epithelium. Resta L, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:39–42

From epithelial dysplasia to squamous carcinoma of the head and neck region: evolutive and prognostic histopathological markers. Silvestri F, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:49–51

Stroboscopic observation of the larynx after radiation in patients with T1 glottic carcinoma. Tsunoda K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:165–6

Sentinel transoral hemorrhage from a pseudoaneurysm of the internal maxillary artery: a complication of CT-guided biopsy of the masticator space. Walker AT, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):377–81

Stromal invasion by carcinoma of the cervix: assessment with dynamic MR imaging. Seki H, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1579–85

Recurrent cervical squamous cell carcinoma presenting with cardiac tamponade [letter; comment] Lam KY. **Am J Cardiovasc Pathol** 1995;5(1):95. Comment on: Am J Cardiovasc Pathol 1992;4(1):69–72.

Cytologic findings in thyroglossal duct carcinoma [see comments] Bardales RH, et al. **Am J Clin Pathol** 1996 Nov; 106(5):615–9 (20 ref.). Comment in: Am J Clin Pathol 1996 Nov;106(5):559–60.

Histologic processing of microbiopsies from cervical smears is diagnostically useful in selected cases. Mravunac M, et al. **Am J Clin Pathol** 1997 Aug;108(2):191–6

Appropriate follow-up interval for biopsy confirmation of squamous intraepithelial lesions diagnosed by cervical smear cytology. Renshaw AA, et al. **Am J Clin Pathol** 1997 Sep;108(3):275–9

Squamous carcinoma of the nasal vestibule: an analysis of five cases and literature review. Taxy JB. **Am J Clin Pathol** 1997 Jun;107(6):698–703 (10 ref.)

Absence of Epstein-Barr virus in lymphoepitheliomalike carcinoma of the skin. Polymerase chain reaction evidence and review of five cases. Gillum PS, et al. **Am J Dermatopathol** 1996 Oct;18(5):478–82

Syringofibrocarcinoma versus squamous cell carcinoma involving syringofibroadenoma: is there a malignant counterpart of Mascaro's syringofibroadenoma? González-Serva A, et al. **Am J Dermatopathol** 1997 Feb; 19(1):58–65

Prognostic significance of Ki-67 and p53 immunoreactivity in cutaneous squamous cell carcinomas. Mansoor A, et al. **Am J Dermatopathol** 1996 Aug;18(4):351–7

Lymphoepithelioma-like carcinoma of the skin. Shek TW, et al. **Am J Dermatopathol** 1996 Dec;18(6):637–44

Squamous cell carcinoma associated with verruciform xanthoma of the penis. Takiwaki H, et al. **Am J Dermatopathol** 1996 Oct;18(5):551–4

Extensive spread of a squamous cell carcinoma in situ of the esophagus: an unusual case. Aouad K, et al. **Am J Gastroenterol** 1996 Nov;91(11):2421–2

Squamous cell carcinoma of the pancreas. Serafini F, et al. **Am J Gastroenterol** 1996 Dec;91(12):2621–2

Rapidly progressive cervical cancer: the Connecticut experience. Schwartz PE, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 2):1105–9

Invasion patterns of advanced temporal bone malignancies. Leonetti JP, et al. **Am J Otol** 1996 May;17(3):438–42

Radiation-induced tumors of the temporal bone. Lustig LR, et al. **Am J Otol** 1997 Mar;18(2):230–5

Four synchronous malignancies of the upper aerodigestive tract--management of an unusual case. Hao SP. **Am J Otolaryngol** 1996 May-Jun;17(3):207–9

Role of arachidonic acid metabolites in tumor growth inhibition by nonsteroidal antiinflammatory drugs. Scioscia KA, et al. **Am J Otolaryngol** 1997 Jan-Feb;18(1):1–8

Genetic predisposition and parameters of malignant progression in K14-HPV16 transgenic mice. Coussens LM, et al. **Am J Pathol** 1996 Dec;149(6):1899–917

Clinicopathological features of superficial squamous cell carcinoma of the esophagus. Tachibana M, et al. **Am J Surg** 1997 Jul;174(1):49–53

Argyrophilic nucleolar organizer regions staining is useful in predicting recurrence-free interval in oral tongue and floor of mouth squamous cell carcinoma. Teixeira G, et al. **Am J Surg** 1996 Dec;172(6):684–8

Papillary squamotransitional cell carcinoma of the cervix: a report of 32 cases. Koenig C, et al. **Am J Surg Pathol** 1997 Aug;21(8):915–21

Effects of radiotherapy on oral epithelium. Quantitative cytology using light and scanning electron microscopy. Soames JV, et al. **Anal Quant Cytol Histol** 1995 Dec; 17(6):389–96

Proliferating cell nuclear antigen (PCNA) expression in pseudoepitheliomatous hyperplasia, keratoacanthoma and squamous cell carcinoma of the skin. Li J, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):526–30

Basal cell and squamous cell carcinomas. Clinico-histological features. Annessi G, et al. **Ann Ist Super Sanita** 1996; 32(1):29–36 (28 ref.)

Expression of matrix metalloproteinases and tissue inhibitor of metalloproteinases in head and neck squamous cell carcinoma. Charous SJ, et al.

Ann Otol Rhinol Laryngol 1997 Apr;106(4):271–8
Clinicopathological consultation. Lymphoepithelial carcinoma of the larynx hypopharynx, and trachea. Ferlito A, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):437–44 (111 ref.)
Squamous neoplastic component in unconventional squamous cell carcinomas of the larynx. Ferlito A, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):926–32 (34 ref.)
Squamous cell carcinoma of the breast: a clinical approach. Stevenson JT, et al. **Ann Surg Oncol** 1996 Jul;3(4):367–74
"Sneeze of a cancer from the lung": sternumentum carcinomae pulmonariae. Hornick PI, et al. **Ann Thorac Surg** 1997 Apr; 63(4):1174–5
Coexpression of VEGF and bFGF in human epidermoid lung carcinoma is associated with increased vessel density. Mattern J, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2249–52
Characterization of two newly established cell lines derived from squamous cell carcinomas of the oesophagus. Sarbia M, et al. **Anticancer Res** 1997 May–Jun;17(3C):2185–92
Lymphoepithelial–like intrathyroidal thymic carcinoma with foci of squamous differentiation. Case report. Attaran SY, et al. **APMIS** 1996 Jun;104(6):419–23
Primary T–cell lymphoma of the breast with lymphoepithelial lesion. A case report. Vasei M, et al. **APMIS** 1997 Jun;105(6):445–8
Analysis of tumor–infiltrating lymphocytes in cutaneous squamous cell carcinoma. Haeffner AC, et al. **Arch Dermatol** 1997 May;133(5):585–90
Neurotropic cutaneous tumors of the head and neck. Osguthorpe JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):871–6
Prognostic factors in carcinoma of the external auditory canal. Testa JR, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):720–4
Pretherapeutic staging of hypopharyngeal carcinoma. Clinical findings, computed tomography, and magnetic resonance imaging compared with histopathologic evaluation. Zbären P, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):908–13
Analysis of DNA ploidy using fresh frozen tissues of head and neck squamous cell carcinomas. Arai Y, et al. **Auris Nasus Larynx** 1997 Apr;24(2):193–8
Peritumoral angiogenesis in carcinomas of the head and neck. Mikami Y, et al. **Auris Nasus Larynx** 1996;23:57–62
Prognostic value of nucleolar organizer regions in supraglottic carcinoma. Yamamoto Y, et al. **Auris Nasus Larynx** 1997;24(1):85–90
Disorders of male genitalia. Clearihan L. **Aust Fam Physician** 1996 Apr;25(4):584–5
Pigmented squamous cell carcinoma with dendritic melanocytes. Kossard S, et al. **Australas J Dermatol** 1997 Aug;38(3):145–7 (16 ref.)
Histological correlates of metastasis in primary invasive squamous cell carcinoma of the lip. Saywell MS, et al. **Australas J Dermatol** 1996 Nov;37(4):193–5
Involvement of Sonic hedgehog in the cell growth of LK–2 cells, human lung squamous carcinoma cells. Fujita E, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):658–64
ATP– and EGF–stimulated phosphatidulinositol synthesis by two different pathways, phospholipase D and diacylglycerol kinase, in A–431 epidermoid carcinoma cells. Hosoi K, et al. **Biochem Cell Biol** 1996;74(2):197–209
Interferon alpha2 recombinant and epidermal growth factor modulate proliferation and hypusine synthesis in human epidermoid cancer KB cells. Caraglia M, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):737–41
Induction of apoptosis by ubenimex (Bestatin) in human non–small–cell lung cancer cell lines. Ezawa K, et al. **Biomed Pharmacother** 1996;50(6–7):283–9
Expression of the E–cadherin–catenin cell adhesion complex in primary squamous cell carcinomas of the head and neck and their nodal metastases. Andrews NA, et al. **Br J Cancer** 1997;75(10):1474–80
Reduction of hypoxic cells in solid tumours induced by mild hyperthermia: special reference to differences in changes in the hypoxic fraction between total and quiescent cell populations. Masunaga S, et al. **Br J Cancer** 1997; 76(5):588–93
Prognostic value of histobiological factors (malignancy grading and AgNOR content) assessed at the invasive tumour front of oral squamous cell carcinomas. Piffkò J, et al. **Br J Cancer** 1997;75(10):1543–6
The prognostic significance of tumour cell proliferation in squamous cell carcinomas of the oesophagus. Sarbia M, et al. **Br J Cancer** 1996 Oct;74(7):1012–6
A follow–up study of progression from dysplasia to squamous cell carcinoma with immunohistochemical examination of p53 protein overexpression in the bronchi of ex–chromate workers. Satoh Y, et al. **Br J Cancer** 1997;75(5):678–83
Squamoid features and expression of involucrin in primary breast carcinoma associated with high histological grade, tumour cell necrosis and recurrence sites. Tsuda H, et al. **Br J Cancer** 1997;75(10):1519–24
Oesophagogastrectomy for iatrogenic perforation of oesophageal and cardia carcinoma. Adam DJ, et al. **Br J Surg** 1996 Oct;83(10):1429–32
Carcinoma of the penis—appraisal of a modified tumour–staging system. Heyns CF, et al. **Br J Urol** 1997 Aug;80(2):307–12
Desmoplastic squamous cell carcinoma of skin and vermilion surface: a highly malignant subtype of skin cancer. Breuninger H, et al. **Cancer** 1997 Mar 1;79(5):915–9
Diffuse pagetoid squamous cell carcinoma in situ of the esophagus: a case report. Chu P, et al. **Cancer** 1997 May 15;79(10):1865–70
Metastatic cutaneous squamous cell carcinoma derived from actinic keratosis. Dinehart SM, et al. **Cancer** 1997 Mar 1; 79(5):920–3
Quantitative immunohistochemical analysis of transforming growth factor–alpha and epidermal growth factor receptor in patients with squamous cell carcinoma of the head and neck. Grandis JR, et al. **Cancer** 1996 Sep 15;78(6):1284–92
Multivariate analysis of occult lymph node metastasis as a prognostic indicator for patients with squamous cell carcinoma of the oral cavity. Hiratsuka H, et al. **Cancer** 1997 Aug 1;80(3):351–6
Surgical pathologic factors that predict recurrence in stage IB and IIA cervical carcinoma patients with negative pelvic lymph nodes. Samlal RA, et al. **Cancer** 1997 Oct 1;80(7):1234–40
Correlation between computed tomographic density of lymph node metastases and response to cisplatin–based chemotherapy in patients with head and neck squamous cell carcinoma in an area in which betel quid chewing is prevalent. Wang HM, et al. **Cancer** 1996 Nov 1; 78(9):1972–9
Progressive dysregulation of proliferation during cervical carcinogenesis as measured by MPM–2 antibody staining. Hu W, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep; 6(9):711–8
Relation between HPV–16 serology and clinico–pathological data in cervical carcinoma patients: prognostic value of anti–E6 and/or anti–E7 antibodies. Baay MF, et al. **Cancer Immunol Immunother** 1997 Jun;44(4):211–5
Regulation of proliferation of UM–SCV–1A and UM–SCV–6 vulvar carcinoma cells by cytokines. Vihko KK, et al. **Cancer Immunol Immunother** 1997 Jan;43(6):368–74
Effect of dexamethasone on invasion of human squamous cell carcinoma cells into collagen gel. Hayashido Y, et al. **Cancer Lett** 1996 Nov 12;108(1):81–6
Establishment of a human squamous cell carcinoma cell line of the upper aero–digestive tract. Mulherkar R, et al. **Cancer Lett** 1997 Sep 16;118(1):115–21
Invasion and metastasis. Boyd D. **Cancer Metastasis Rev** 1996 Mar;15(1):77–89 (95 ref.)
Molecular staging of head and neck squamous carcinoma. Brennan JA, et al. **Cancer Metastasis Rev** 1996 Mar; 15(1):3–10 (46 ref.)
Cell, tissue and organ culture as in vitro models to study the biology of squamous cell carcinomas of the head and neck. Sacks PG. **Cancer Metastasis Rev** 1996 Mar; 15(1):27–51 (272 ref.)
Evidence that loss of chromosome 18q is associated with tumor progression. Frank CJ, et al. **Cancer Res** 1997 Mar 1;57(5):824–7
Effect of PD 098059, a specific inhibitor of mitogen–activated protein kinase kinase, on urokinase expression and in vitro invasion. Simon C, et al. **Cancer Res** 1996 Dec 1; 56(23):5369–74
Altered gap junctional intercellular communication in neoplastic rat esophageal epithelial cells. Garber SA, et al. **Carcinogenesis** 1997 Jun;18(6):1149–53
Restricted expression and function of laminin 1–binding integrins in normal and malignant oral mucosal keratinocytes. Zhang K, et al. **Cell Adhes Commun** 1996 Sep;4(3):159–74
Retinoic acid and IFN inhibition of cell proliferation is associated with apoptosis in squamous carcinoma cell lines: role of IRF–1 and TGase II–dependent pathways. Giandomenico V, et al. **Cell Growth Differ** 1997 Jan; 8(1):91–100
Sensitivity to transforming growth factor beta 1–induced growth arrest is common in human squamous cell carcinoma cell lines: c–MYC down–regulation and p21waf1 induction are important early events. Malliri A, et al. **Cell Growth Differ** 1996 Oct;7(10):1291–304
Squamous cell carcinoma of the ampulla of Vater: a case report. Chen CM, et al. **Chang Keng I Hsueh** 1996 Sep; 19(3):253–7
Morphometric evaluation of argyrophilic nucleolar organizer region is useful in predicting long–term survival in squamous cell carcinoma of the lung. Antonangelo L, et al. **Chest** 1997 Jan;111(1):110–4
Primary lymphoepithelioma–like carcinoma of the lung in a child. Report of an Epstein–Barr virus–related neoplasm. Curcio LD, et al. **Chest** 1997 Jan;111(1):250–1
Squamous cell carcinoma of esophagus with diffuse mucin–secreting component: a clinicopathologic study. Hsu CY, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 May; 59(5):275–82
Histopathology of cutaneous squamous cell carcinoma. Maguire B, et al. **Clin Dermatol** 1995 Nov–Dec; 13(6):559–68 (75 ref.)
Comparative aspects of nonmelanoma skin cancer. Walder EJ. **Clin Dermatol** 1995 Nov–Dec;13(6):569–78 (21 ref.)
Metastatic variants derived following in vivo tumor progression of an in vitro transformed squamous cell carcinoma line acquire a differential growth advantage requiring tumor–host interaction. Chen Z, et al. **Clin Exp Metastasis** 1997 Sep;15(5):527–37
Adhesion properties, intermediate filaments and malignant behaviour of head and neck squamous cell carcinoma cells in vitro. Tomson AM, et al. **Clin Exp Metastasis** 1996 Nov; 14(6):501–11
Staging of nasopharyngeal carcinoma: evaluation of N–staging by Ho and UICC/AJCC systems. Union Internationale Contre le Cancer. American Joint Committee for Cancer. Lee AW, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):146–54
Mandibular invasion in patients with oral and oropharyngeal squamous carcinoma. Jones AS, et al. **Clin Otolaryngol** 1997 Jun;22(3):239–45
An immunohistochemical analysis of p53 protein expression in pre–malignant and malignant tissues of the oral cavity. Rowley H, et al. **Clin Otolaryngol** 1997 Feb;22(1):23–9
Predicting mandibular invasion in mouth cancer. Smyth DA, et al. **Clin Otolaryngol** 1996 Jun;21(3):265–8
Review of the screening history of Alberta women with invasive cervical cancer. Stuart GC, et al. **CMAJ** 1997 Sep 1;157(5):513–9
Correlation of endoscopic cytology and histology in oesophageal cancer: results in Porto Alegre, RS—Brazil. Frantz MA, et al. **Cytopathology** 1996 Feb;7(1):38–53
Perineural and neural involvement in skin cancers. Terashi H, et al. **Dermatol Surg** 1997 Apr;23(4):259–64; discussion 264–5
Malignant melanoma and squamous cell carcinoma forming one tumour on a burn scar. Akiyama M, et al. **Dermatology** 1997;194(2):157–61
Squamous cell carcinoma arising in a verrucous epidermal nevus. Ichikawa T, et al. **Dermatology** 1996;193(2):135–8 (18 ref.)
Proliferating tricholemmal cyst should always be considered as a low–grade carcinoma [letter] Noto G, et al. **Dermatology** 1997;194(4):374–5 (16 ref.)
Proliferating tricholemmal cyst: a possible pitfall in cytological diagnosis. Biernat W, et al. **Diagn Cytopathol** 1996 Jul;15(1):73–5
Cytodiagnosis of pure primary squamous–cell carcinoma of the breast by fine–needle aspiration cytology. Gupta RK, et al. **Diagn Cytopathol** 1997 Sep;17(3):197–9
Atypical squamous cells of undetermined significance qualified: a follow–up study. Kline MJ, et al. **Diagn Cytopathol** 1996 Jun;14(4):380–4
Squamous cells in fine–needle aspiration biopsies of salivary gland lesions: potential pitfalls in cytologic diagnosis. Mooney EE, et al. **Diagn Cytopathol** 1996 Dec;15(5):447–52
Cytologic Diagnosis of "CASTLE" of thyroid gland: report of a case with histologic correlation. Ng WK, et al. **Diagn Cytopathol** 1996 Sep;15(3):224–7 (20 ref.)
False–negative diagnosis in fine–needle aspirations of squamous–cell carcinoma of head and neck. Pisharodi LR. **Diagn Cytopathol** 1997 Jul;17(1):70–3
Atypical reparative change on cervical/vaginal smears may be associated with dysplasia. Rimm DL, et al. **Diagn Cytopathol** 1996 Jun;14(4):374–9
Evaluation of the 5–year review of negative cervical smears in patients with high grade squamous intraepithelial lesions. Tabbara SO, et al. **Diagn Cytopathol** 1996 Jul;15(1):7–10; discussion 10–1
Flow cytometry in squamous cell esophageal cancer and precancerous lesions. Chanvitan A, et al. **Dis Esophagus** 1997 Jul;10(3):206–10
Prognostic differences between early squamous–cell and adenocarcinoma of the esophagus. Hölscher AH, et al. **Dis Esophagus** 1997 Jul;10(3):179–84 (52 ref.)
Biological characteristics of esophageal squamous cell carcinoma associated with contiguous intraepithelial carcinoma. Ikeguchi M, et al. **Dis Esophagus** 1997 Apr; 10(2):128–33
Early diagnosis of mucosal squamous cell carcinoma of the esophagus: including two interesting cases of superficial spreading–type and multicentric–type squamous cell carcinomas. Kimura H, et al. **Dis Esophagus** 1997 Jul; 10(3):201–5
Synchronous and metachronous carcinomas of the esophagus and head and neck. Natsugoe S, et al. **Dis Esophagus** 1997 Apr;10(2):134–8
Invasive squamous cell carcinoma of the limbus: case report. Olasode BJ, et al. **East Afr Med J** 1996 Sep;73(9):627–8
Basaloid squamous cell carcinoma of the larynx. Akyol MU, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):485–7
In vitro effects of high–energy pulsed ultrasound on human squamous cell carcinoma cells. Iro H, et al. **Eur Arch Otorhinolaryngol** 1996;253(1–2):11–6
Antiproliferative effects of the biologically active metabolite of vitamin D3 (1,25 [OH]2 D3) on head and neck squamous cell carcinoma cell lines. Kornfehl J, et al. **Eur Arch Otorhinolaryngol** 1996;253(6):341–4
The significance of pre–epiglottic space invasion in supraglottic laryngeal carcinomas. Dursun G, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S110–2
Determination of radiosensitivity in established and primary squamous cell carcinoma cultures using the micronucleus assay. Champion AR, et al. **Eur J Cancer** 1997 Mar; 33(3):453–62
Autopsy findings in patients with head and neck squamous cell cancer and their therapeutic relevance. Slootweg PJ, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):413–5
Studies on tumor proliferation using monoclonal antibody, Ki 67 and expression of p53 in cancer of the uterine cervix. Bar JK, et al. **Eur J Gynaecol Oncol** 1996;17(5):378–80
Ki–67 expression in vulvar carcinoma. Preliminary results.

Marchetti M, et al. **Eur J Gynaecol Oncol** 1996;17(5):361–4
Prognostic significance of serum tumour markers in carcinoma of the cervix. Ngan HY, et al. **Eur J Gynaecol Oncol** 1996;17(6):512–7
Postoperative management of patients with stage Ib endometrial carcinoma. Sainz de la Cuesta R, et al. **Eur J Gynaecol Oncol** 1996;17(5):338–41
Enteric type villoglandular papillary adenocarcinoma of the uterine cervix associated with in situ squamous cell carcinoma. Case report and review of the literature. Skopelitou A, et al. **Eur J Gynaecol Oncol** 1996; 17(4):309–14 (42 ref.)
Oesophageal cancer coexisting with colorectal lesions. Kuwano H, et al. **Eur J Surg** 1996 Oct;162(10):797–800
Fibroblasts can modulate the phenotype of malignant epithelial cells in vitro. Atula S, et al. **Exp Cell Res** 1997 Aug 25;235(1):180–7
Ultraviolet rays induced expression of lectins on the surface of a squamous carcinoma keratinocyte cell line. Condaminet B, et al. **Exp Cell Res** 1997 May 1; 232(2):216–24
Early ultraviolet B–induced G1 arrest and suppression of the malignant phenotype by wild–type p53 in human squamous cell carcinoma cells. Courtois SJ, et al. **Exp Cell Res** 1997 May 25;233(1):135–44
Cytoskeletal and morphological changes associated with the specific suppression of the epidermal growth factor receptor tyrosine kinase activity in A431 human epidermoid carcinoma. Nelson JM, et al. **Exp Cell Res** 1997 Jun 15; 233(2):383–90
Argyrophilic nucleolar organizer regions, bromodeoxyuridine labelling index and DNA ploidy in squamous cell carcinoma of the uterine cervix. Gasińska A, et al. **Folia Histochem Cytobiol** 1996;34(2):95–101
A multivariate analysis of clinical and morphological prognostic factors in squamous cell carcinoma of the vulva. Smyczek–Gargya B, et al. **Gynecol Obstet Invest** 1997; 43(4):261–7
Lymph node metastases and prognosis in patients with stage IA2 cervical cancer. Buckley SL, et al. **Gynecol Oncol** 1996 Oct;63(1):4–9
An analysis of cell type in patients with surgically staged stage IB carcinoma of the cervix: a Gynecologic Oncology Group study. Look KY, et al. **Gynecol Oncol** 1996 Dec; 63(3):304–11
Improvement of clinical staging in cervical cancer with serum squamous cell carcinoma antigen and CA 125 determinations. Massuger LF, et al. **Gynecol Oncol** 1997 Mar;64(3):473–6
Pretreatment transperitoneal laparoscopic staging pelvic and paraaortic lymphadenectomy in large (> or = 5 cm) stage IB2 cervical carcinoma: report of a pilot study. Recio FO, et al. **Gynecol Oncol** 1996 Dec;63(3):333–6
Squamous metaplasia of the endometrium associated with HPV 6 and 11. Sherwood JB, et al. **Gynecol Oncol** 1997 Jul;66(1):141–5
Prognostic value of peritoneal cytology in patients with carcinoma of the uterine cervix. Takeshima N, et al. **Gynecol Oncol** 1997 Jan;64(1):136–40
Invasive vulvar carcinoma in two women infected with human immunodeficiency virus. Wright TC, et al. **Gynecol Oncol** 1996 Mar;60(3):500–3
Prognostic importance of surgical margins in advanced laryngeal squamous carcinoma. Bradford CR, et al. **Head Neck** 1996 Jan–Feb;18(1):11–6
Proliferation of epithelia of noninvolved mucosa in patients with head and neck cancer. Kotelnikov VM, et al. **Head Neck** 1996 Nov–Dec;18(6):522–8
Frequency and therapeutic implications of "skip metastases" in the neck from squamous carcinoma of the oral tongue [letter; comment] Manni JJ. **Head Neck** 1997 Aug; 19(5):445–6. Comment on: Head Neck 1997 Jan;19(1):14–9.
p53 immunostaining and image cytometry DNA analysis in precancerous and cancerous squamous epithelial lesions of the larynx. Munck–Wikland E, et al. **Head Neck** 1997 Mar; 19(2):107–15
Nucleolar organizer regions and prognosis in glottic squamous cell carcinoma. Xie X, et al. **Head Neck** 1997 Jan;19(1):20–6
Small cell carcinoma of the esophagus combined with superficial esophageal cancer. Fujiwara Y, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1360–9
A novel immunohistochemical technique for the detection of human oral carcinomas transplanted in nude mice using mouse monoclonal antibodies. Kawasaki M, et al. **Histochem Cell Biol** 1997 Mar;107(3):177–82
The alveolar type II cell is a pluripotential stem cell in the genesis of human adenocarcinomas and squamous cell carcinomas. Ten Have–Opbroek AA, et al. **Histol Histopathol** 1997 Apr;12(2):319–36
An evaluation of the role of nuclear cytoplasmic ratios and nuclear volume densities as diagnostic indicators in metaplastic, dysplastic and neoplastic lesions of the human cheek. White FH, et al. **Histol Histopathol** 1997 Jan; 12(1):69–77
Occurrence of multiple lymphoepithelioma–like carcinomas and MALT–type lymphoma in the stomach: detection of EBV in carcinomas but not in lymphoma. Greiner A, et al. **Histopathology** 1996 Jul;29(1):51–6
Lymphoepithelioma–like salivary gland carcinoma in Taiwan: a clinicopathological study of nine cases demonstrating a strong association with Epstein–Barr virus. Kuo T, et al. **Histopathology** 1997 Jul;31(1):75–82 (22 ref.)
A study of the value and prognostic significance of mucin staining in squamous cell carcinoma of the uterine cervix. Langlois NE, et al. **Histopathology** 1996 Feb;28(2):175–8
Bronchogenic squamous cell carcinomas with invasion along alveolar walls. Nakanishi K, et al. **Histopathology** 1996 Oct; 29(4):363–8
Expression of cytokeratins typical for ductal and squamous differentiation in the human stomach: an immunohistochemical study of normal foveolar epithelium, Helicobacter pylori gastritis and intestinal metaplasia. Schwerer MJ, et al. **Histopathology** 1996 Aug;29(2):131–7
Placental site nodule of the uterine cervix. Van Dorpe J, et al. **Histopathology** 1996 Oct;29(4):379–82
Squamoid eccrine ductal carcinoma. Wong TY, et al. **Histopathology** 1997 Mar;30(3):288–93
Quantitation of proliferation–associated markers Ag–NOR and Ki–67 does not contribute to the prediction of lymph node metastases in squamous cell carcinoma of the vulva. Emanuels AG, et al. **Hum Pathol** 1996 Aug;27(8):807–11
Lymphoepithelial carcinoma of the larynx and hypopharynx: study of eight cases with relationship to Epstein–Barr virus and p53 gene alterations, and review of the literature. MacMillan C, et al. **Hum Pathol** 1996 Nov;27(11):1172–9 (44 ref.)
Tumor–associated eosinophilic infiltrate of cervical cancer is indicative for a less effective immune response. van Driel WJ, et al. **Hum Pathol** 1996 Sep;27(9):904–11
Three–dimensional endothelial–tumor epithelial cell interactions in human cervical cancers. Chopra V, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun;33(6):432–42
Cytogenetic analyses of a murine carcinoma cell line and six metastatic derivatives with different degrees of radioresistability. Jamasbi RJ, et al. **In Vitro Cell Dev Biol Anim** 1997 Feb;33(2):137–44
Reconstituted basement membrane (Matrigel): a useful semisolid medium for growth of tumor cell colonies [letter] Oridate N, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr; 32(4):192–3
Carcinoma penis in a young boy. A case report. Hemal AK, et al. **Indian J Cancer** 1996 Jun;33(2):108–10 (7 ref.)
Rhabdoid phenotype in squamous carcinoma. A report of two cases. Pai SA, et al. **Indian J Cancer** 1996 Sep; 33(3):161–4
Collision tumor with three components at esophagogastric junction. Pai SA, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):116
Altered expression of mdm–2 and its association with p53 protein status, tumor–cell–proliferation rate and prognosis in cervical neoplasia. Dellas A, et al. **Int J Cancer** 1997 Aug 22;74(4):421–5
Aberrant p21(CIP1/WAF1) protein accumulation in head–and–neck cancer. Erber R, et al. **Int J Cancer** 1997 Aug 22;74(4):383–9
All–trans, 13–cis and 9–cis retinoic acids induce a fully reversible growth inhibition in HNSCC cell lines: implications for in vivo retinoic acid use. Giannini F, et al. **Int J Cancer** 1997 Jan 17;70(2):194–200
Differential expression of multidrug resistance gene product, P–glycoprotein, in normal, dysplastic and malignant oral mucosa in India. Jain V, et al. **Int J Cancer** 1997 Feb 20; 74(1):128–33
Growth inhibition and apoptotic cell death in uterine cervical carcinoma cells induced by 5–fluorouracil. Ueda M, et al. **Int J Cancer** 1997 May 16;71(4):668–74
Prognostic value of vascular endothelial growth factor and its receptor Flt–1 in squamous cell lung cancer. Volm M, et al. **Int J Cancer** 1997 Feb 20;74(1):64–8
Increased recurrence and metastasis in patients whose primary head and neck squamous cell carcinomas secreted granulocyte–macrophage colony–stimulating factor and contained CD34+ natural suppressor cells. Young MR, et al. **Int J Cancer** 1997 Feb 20;74(1):69–74
Diagnostic value of cytology in basal cell and squamous cell carcinomas [letter] Oram Y, et al. **Int J Dermatol** 1997 Feb; 36(2):156–7
Microcystic adnexal carcinoma. Sabhikhi AK, et al. **Int J Dermatol** 1997 Feb;36(2):134–6
ACOG criteria set. Atypical squamous cells of undetermined significance (ASCUS). American College of Obstetricians and Gynecologists Committee on Quality Assessment. **Int J Gynaecol Obstet** 1996 Feb;52(2):215–6
Cytokine, cell adhesion receptor, and tumor suppressor gene expression in vulvar squamous carcinoma: correlation with prominent fibromyxoid stromal response. Ambros RA, et al. **Int J Gynecol Pathol** 1996 Oct;15(4):320–5
Oral squamous cell carcinoma in a young person with candidosis endocrinopathy syndrome: a case report. Firth NA, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):42–4
Correlation of imaging and clinical features in the assessment of mandibular invasion of oral carcinomas. Kalavrezos ND, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):439–45
Down–regulated expression of CD44 variant 6 in oral squamous cell carcinomas and its relationship to regional lymph node metastasis. Kunishi M, et al. **Int J Oral Maxillofac Surg** 1997 Aug;26(4):280–3
Oncologic aspects of vermilionectomy in microinvasive squamous cell carcinoma of the lower lip. van der Wal JE, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):446–8
Proliferation and hypoxia in human squamous cell carcinoma of the cervix: first report of combined immunohistochemical assays. Kennedy AS, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):897–905
Apoptosis and mitosis as prognostic factors in pathologically staged N1 nonsmall cell lung cancer. Komaki R, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):601–5
Tumor size evaluated by pelvic examination compared with 3–D quantitative analysis in the prediction of outcome for cervical cancer. Mayr NA, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):395–404
Predictive value of potential doubling time in head and neck cancer patients treated by conventional radiotherapy. Zackrisson B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):677–83
Prognostic significance of S–phase fraction detected by antithymidine antibodies in epidermoid cervix carcinomas. Zamulaeva IA, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):685–8
"Collision phenomenon" of prostate and bladder cancers in lymph node metastases. Gohji K, et al. **Int J Urol** 1997 Mar;4(2):222–4
Metastatic tumours of the hand. A case report. Saglike Y, et al. **Int Orthop** 1996;20(2):123–4
Primary squamous cell carcinoma of the ureter presenting with urinoma. A case report. Toktaş G, et al. **Int Urol Nephrol** 1997;29(2):163–5
Primary lung cancer associated with diffuse granulomatous lesions in the pulmonary parenchyma. Segawa Y, et al. **Intern Med** 1996 Sep;35(9):728–31
Radiologic assessment of intranodal vascularity in head and neck squamous cell carcinoma. Correlation with histologic vascular density. Lamer S, et al. **Invest Radiol** 1996 Nov; 31(11):673–9
Metastatic squamous cell carcinoma arising in Bowen's disease of the palm. González–Pérez R, et al. **J Am Acad Dermatol** 1997 Apr;36(4):635–6
High rate of malignant transformation in hyperkeratotic actinic keratoses. Suchniak JM, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):392–4
Laryngeal tuberculosis masquerading as carcinoma. Lightfoot SA. **J Am Board Fam Pract** 1997 Sep–Oct; 10(5):374–6
Management of patients with atypical squamous cells of undetermined significance (ASCUS) on Papanicolaou smears. Terry RR. **J Am Osteopath Assoc** 1996 Aug; 96(8):465–8 (17 ref.)
The high affinity heparin–binding domain and the V region of fibronectin mediate invasion of human oral squamous cell carcinoma cells in vitro. Kapila YL, et al. **J Biol Chem** 1997 Jul 25;272(30):18932–8
Cancer of the gingiva, buccal mucosa, and palate. McGaw WT, et al. **J Can Dent Assoc** 1996 Feb;62(2):146–50 (29 ref.)
Carcinoma arising within epiphrenic diverticula. A report of two cases and review of the literature. Schultz SC, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):649–51
Effect of suramin on squamous differentiation and apoptosis in three human non–small–cell lung cancer cell lines. Lokshin A, et al. **J Cell Biochem Suppl** 1996;24:186–97
Expression of N–cadherin by human squamous carcinoma cells induces a scattered fibroblastic phenotype with disrupted cell–cell adhesion. Islam S, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1643–54
Surgical treatment of invasive carcinoma of the vulva: two different techniques. Iodice F, et al. **J Chemother** 1997 Apr; 9(2):131–2
p53 expression and cell proliferation as prognostic factors in laryngeal squamous cell carcinoma. Hirvikoski P, et al. **J Clin Oncol** 1997 Sep;15(9):3111–20
Use of flow cytometry in the analysis of stage III squamous cell carcinoma of the oesophagus and its association with MIB–1. Lam KY, et al. **J Clin Pathol** 1996 Dec; 49(12):975–8
Proliferation indexes––a comparison between cutaneous basal and squamous cell carcinomas [letter; comment] Maiolino P, et al. **J Clin Pathol** 1997 Apr;50(4):355. Comment on: J Clin Pathol 1996 Jul;49(7):549–51.
Immunohistochemical detection of P53 overexpression in paraffin wax–embedded squamous cell carcinomas of cattle, horses, cats and dogs. Teifke JP, et al. **J Comp Pathol** 1996 Feb;114(2):205–10
Quintuple cancers: report of a case with triple cancers in the head and neck. Martin–Granizo R, et al. **J Craniomaxillofac Surg** 1997 Jun;25(3):153–7 (34 ref.)
Trisomy 7 in keratoacanthoma and squamous cell carcinoma detected by fluorescence in–situ hybridization. Cheville JC, et al. **J Cutan Pathol** 1995 Dec;22(6):546–50
Bowenoid epidermotropic metastatic squamous cell carcinoma. Ihm CW, et al. **J Cutan Pathol** 1996 Oct; 23(5):479–84
Eccrine syringofibroadenoma surrounding a squamous cell carcinoma: a case report. Lele SM, et al. **J Cutan Pathol** 1997 Mar;24(3):193–6
Clear–cell atypical fibroxanthoma: an uncommon histopathologic variant of atypical fibroxanthoma. Requena L, et al. **J Cutan Pathol** 1997 Mar;24(3):176–82 (34 ref.)
Lymphoepithelioma–like carcinoma of the skin. Ko T, et al. **J Dermatol** 1997 Feb;24(2):104–9
Immunohistochemical detection of Ki–67 in epithelial skin tumors in formalin–fixed paraffin–embedded tissue sections using a new monoclonal antibody (MIB–1). Matsuta M, et al. **J Dermatol** 1996 Mar;23(3):147–52
Expression of E–cadherin in skin carcinomas. Tada H, et al. **J Dermatol** 1996 Feb;23(2):104–10

A unique case of squamous cell carcinoma showing adenocarcinomatous features with focal apocrine differentiation. Yamamoto O, et al. **J Dermatol** 1997 Apr; 24(4):249–54

Comparison of migration and invasiveness of epithelial tumor and melanoma cells in vitro. Wach F, et al. **J Dermatol Sci** 1996 Jun;12(2):118–26

Non–melanoma skin cancer: a case–control study on risk factors and protective measures. Suárez–Varela MM, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):255–61

The overexpression of p53 and proliferative activity in precancerous and cancerous lesions of oral squamous epithelium. Ichikawa M, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):141–6

Myeloid differentiation treatment to diminish the presence of immune–suppressive CD34+ cells within human head and neck squamous cell carcinomas. Young MR, et al. **J Immunol** 1997 Jul 15;159(2):990–6

Tumor implantation along abdominal trocar site after pelviscopic removal of malignant ovarian tumor––a case report. Chu HS, et al. **J Korean Med Sci** 1996 Oct; 11(5):440–3

Carcinoma ex pleomorphic adenoma of the palate––a case report. Kim KM, et al. **J Korean Med Sci** 1997 Feb; 12(1):63–6

Squamous cell carcinomas of the head and neck: descriptive analysis of 1293 cases. Kurtulmaz SY, et al. **J Laryngol Otol** 1997 Jun;111(6):531–5

Cervical lymph node metastatic patterns of squamous carcinomas in the upper aerodigestive tract. Li XM, et al. **J Laryngol Otol** 1996 Oct;110(10):937–41

Primary branchial cleft carcinoma––a case report. Ohri AK, et al. **J Laryngol Otol** 1997 Jan;111(1):80–2

Histopathologic prognostic factors in early stage cervical carcinoma. Benda JA. **J Natl Cancer Inst Monogr** 1996; (21):27–34 (56 ref.)

Is there a radiobiologic basis for improving the treatment of advanced stage cervical cancer? Lindegaard JC, et al. **J Natl Cancer Inst Monogr** 1996;(21):105–12 (91 ref.)

New air–fluid levels in bullous lung disease: a reevaluation. Richardson MS, et al. **J Natl Med Assoc** 1996 Mar; 88(3):185–7 (19 ref.)

Accuracy of frozen sections in assessing margins in oral cancer resection. Ord RA, et al. **J Oral Maxillofac Surg** 1997 Jul;55(7):663–9; discussion 669–71

Unaltered strong immunohistochemical expression of CD44–v6 and –v5 isoforms during development and progression of oral squamous cell carcinomas. Piffkò J, et al. **J Oral Pathol Med** 1996 Oct;25(9):502–6

An immunohistochemical study of thrombomodulin in oral squamous cell carcinoma and its association with invasive and metastatic potential. Tabata M, et al. **J Oral Pathol Med** 1997 Jul;26(6):258–64

Oral squamous cell carcinoma following treatment of acute lymphoblastic leukaemia. van der Waal RI, et al. **J Oral Pathol Med** 1997 Feb;26(2):98–9

Value of rigid bronchoscopy and cytodiagnosis of bronchial washings in detecting bronchial carcinoma in the presence of a carcinoma of the upper aerodigestive tract. Dhooge I, et al. **J Otolaryngol** 1996 Aug;25(4):219–22

Does N stage predict survival? Hall SF, et al. **J Otolaryngol** 1996 Oct;25(5):296–9

Standardized AgNOR analysis of the invasive tumour front in oral squamous cell carcinomas. Piffkò J, et al. **J Pathol** 1997 Aug;182(4):450–6

Squamous cell carcinoma of the gingiva with an atypical appearance. Wallace ML, et al. **J Periodontol** 1996 Nov; 67(11):1245–8

Clinical Significance of a cervical cytologic diagnosis of atypical squamous cells of undetermined significance. Favoring a reactive process or low grade squamous intraepithelial lesion. Gonzalez D, et al. **J Reprod Med** 1996 Oct;41(10):719–23

Tumor invasion and angiogenesis in early esophageal squamous cell carcinoma. Kuwano H, et al. **J Surg Oncol** 1997 Jul;65(3):188–93

Advanced cutaneous squamous cell carcinoma of the trunk and extremity: analysis of prognostic factors. North JH Jr, et al. **J Surg Oncol** 1997 Mar;64(3):212–7

Squamous cell carcinoma of the renal pelvis with inferior vena caval extension. Kibel AS, et al. **J Urol** 1996 Oct; 156(4):1436

Primary squamous cell carcinoma of the testis. Shih DF, et al. **J Urol** 1996 Nov;156(5):1772 (2 ref.)

Primary human fibroblasts induce diverse tumor invasiveness: involvement of HGF as an important paracrine factor. Iwazawa T, et al. **Jpn J Cancer Res** 1996 Nov; 87(11):1134–42

Suppressed apoptotic induction in esophageal squamous cell carcinomas expressing extensive p53 protein. Hamada M, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):398–404

Molecular–pathological analysis of a patient with three synchronous squamous cell carcinomas in the aerodigestive tract. Hayashi T, et al. **Jpn J Clin Oncol** 1996 Oct; 26(5):368–73

Prognostic significance of proliferating cell nuclear antigen (PCNA) in squamous cell carcinoma of the esophagus. Kinugasa S, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):405–10

Superior orbital fissure syndrome caused by intraorbital spread of a cutaneous squamous cell carcinoma and not detected on computed tomography and magnetic resonance imaging. de Keizer RJ, et al. **Jpn J Ophthalmol** 1997 Mar–Apr;41(2):104–10

Squamous–cell cancer in Verneuil's disease (hidradenitis suppurativa) [letter] Malaguarnera M, et al. **Lancet** 1996 Nov 23;348(9039):1449

Efficacy of transcutaneous computed tomography––guided fine needle aspiration biopsy in patients with laryngeal squamous cell carcinoma, probable failed radiation therapy, and negative transmucosal biopsies. Citardi MJ, et al. **Laryngoscope** 1996 Oct;106(10):1244–7

Prognostic indicators for squamous cell carcinoma of the oral cavity: a clinicopathologic correlation. Gluckman JL, et al. **Laryngoscope** 1997 Sep;107(9):1239–44

Heterogeneity of squamous cell carcinomas of the head and neck––analysis of tumor biologic factors and proliferation rates. Jacob R, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1170–5

Expression of the opioid growth factor, [Met5]–enkephalin, and the zeta opioid receptor in head and neck squamous cell carcinoma. Levin RJ, et al. **Laryngoscope** 1997 Mar; 107(3):335–9

Clinical and flow cytometric prognostic factors in surgically treated squamous cell lung cancer. Kolodziejski L, et al. **Lung Cancer** 1997 Mar;16(2–3):173–82

Lung squamous cell carcinoma presenting with brain metastases in an HIV–positive patient. Kosmopoulou O, et al. **Lung Cancer** 1996 Sep;15(2):245–9

Standardized demonstration of silver–stained nucleolar organizer regions–associated proteins in archival oral squamous cell carcinomas and adjacent non–neoplastic mucosa. Piffkò J, et al. **Mod Pathol** 1997 Feb;10(2):98–104

Evaluation of PAPNET testing as an ancillary tool to clarify the status of the "atypical" cervical smear. Sherman ME, et al. **Mod Pathol** 1997 Jun;10(6):564–71

Enhanced sensitivity to tumor growth and development in multistage skin carcinogenesis by transforming growth factor–alpha–induced epidermal growth factor receptor activation but not p53 inactivation. Shibata MA, et al. **Mol Carcinog** 1997 Mar;18(3):160–70

The radiosensitizing effects of hypoxic cell sensitizer on SCCVII tumors in mice evaluated by highly accurate colony formation assay assisted by microcomputer. Ono K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Dec; 56(14):1066–70

Squamous cell carcinoma arising from mature cystic teratoma of the ovary: a clinicopathologic analysis. Kikkawa F, et al. **Obstet Gynecol** 1997 Jun;89(6):1017–22

Epstein–Barr virus latent membrane protein does not inhibit differentiation and induces tumorigenicity of human epithelial cells. Nicholson LJ, et al. **Oncogene** 1997 Jul 17; 15(3):275–83

Inhibition of epidermal growth factor receptor gene expression and function decreases proliferation of head and neck squamous carcinoma but not normal mucosal epithelial cells. Rubin Grandis J, et al. **Oncogene** 1997 Jul 24;15(4):409–16

Radiation–induced proliferation of the human A431 squamous carcinoma cells is dependent on EGFR tyrosine phosphorylation. Schmidt–Ullrich RK, et al. **Oncogene** 1997 Sep 4;15(10):1191–7

Inhibition by 5–fluorouracil of ERCC1 and gamma–glutamylcysteine synthetase messenger RNA expression in a cisplatin–resistant HST–1 human squamous carcinoma cell line. Fujishima H, et al. **Oncol Res** 1997; 9(4):167–72

Clonal variation of p53 expression and proliferative phenotype in A253 squamous carcinoma cells. Galbraith SC, et al. **Oncol Res** 1996;8(9):353–61

Correlation between the lymphocytic infiltration of tumors and the proliferative activity of cancer cells from surgically treated esophageal carcinoma. Ikeguchi M, et al. **Oncology** 1997 Jul–Aug;54(4):311–7

All–trans retinoic acid induced gene expression and growth inhibition in head and neck cancer cell lines. Cooper MP, et al. **Oral Oncol** 1997 Jul;33(4):270–4

p53 In biopsies of oral squamous cell carcinoma. A comparative study with a malignancy grading system. De Araújo VC, et al. **Oral Oncol** 1997 Jan;33(1):5–9

Malignant potential of oral lichen planus; a follow–up study of 326 patients. Markopoulos AK, et al. **Oral Oncol** 1997 Jul;33(4):263–9

Tumour–associated tissue eosinophilia in head and neck squamous–cell carcinoma. Deron P, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May–Jun; 58(3):167–70

Diagnostic and prognostic value of nucleolar organizer regions in squamous–cell carcinomas of the maxillary sinus. Yamamoto Y, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Mar–Apr; 58(2):93–8

Histopathology and pathologic prognostic indicators. Cappellari JO. **Otolaryngol Clin North Am** 1997 Apr; 30(2):251–68 (95 ref.)

Squamous cell carcinomas of the head and neck cultured in floating collagen gels: 1. The maintenance of stromal and epithelial elements in vitro without fibroblast overgrowth. Burford–Mason AP, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):213–22

Perineural spread of facial squamous cell carcinoma to the vestibulocochlear nerve. Murofushi T, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):392–4

Squamous cell carcinoma of the pancreas accompanied by mucinous cystadenocarcinoma: a case report of an unusual association [letter] Kubota K, et al. **Pancreas** 1997 Jan; 14(1):99–101

Nemaline bodies of skeletal muscle fibers of the neck in a case of pharyngeal cancer. Kimura M, et al. **Pathol Int** 1997 Apr;47(4):256–9

A case of sarcomatoid carcinoma of the thymus. Nishimura M, et al. **Pathol Int** 1997 Apr;47(4):260–3 (11 ref.)

Synchronous and metachronous multicentric squamous cell carcinomas in the upper aerodigestive tract. Shan L, et al. **Pathol Int** 1997 Jan;47(1):68–72

Small–cell neuroendocrine carcinoma of the uterine cervix associated with micro–invasive squamous cell carcinoma and adenocarcinoma in situ. Toki T, et al. **Pathol Int** 1996 Jul;46(7):520–5

Critical commentary [comment] Colby TV, et al. **Pathol Res Pract** 1995 Nov;191(11):1175–7. Comment on: Pathol Res Pract 1995 Nov;191(11):1170–4.

Cytokeratin expression in preneoplastic lesions and early squamous cell carcinoma of the bronchi. Fisseler–Eckhoff A, et al. **Pathol Res Pract** 1996 Jun;192(6):552–9

Squamous carcinoma of the epiglottis with sebaceous differentiation. Report of a case. Baiocco R, et al. **Pathologica** 1995 Oct;87(5):531–33

Squamous cell carcinoma of the distal urethra in a patient with congenital hypospadias. Dodd M, et al. **Pathology** 1996 Jan;28(1):96–7

Association of hypercalcemia, PTHrP expression and disease progression in a woman with primary squamous cell carcinoma of the breast. Pillay P, et al. **Pathology** 1997 Aug;29(3):317–9

Esophageal cancer. Clinical and pathologic features. Gore RM. **Radiol Clin North Am** 1997 Mar;35(2):243–63 (131 ref.)

Early squamous cell carcinoma of the lung: CT and pathologic correlation. Saida Y, et al. **Radiology** 1996 Oct; 201(1):61–5

Staging of esophageal carcinoma in vitro with 4.7–T MR imaging. Yamada I, et al. **Radiology** 1997 Aug;204(2):521–6

In vivo cell kinetics in elderly patients affected by squamous cell carcinoma of the head and neck. Corvò R, et al. **Rays** 1997 Jan–Mar;22(1 Suppl):69–72

Growth and transformation of human oral epithelium in vitro. Grafström RC, et al. **Recent Results Cancer Res** 1997; 143:275–306 (159 ref.)

HPV–16–positive anal and penile carcinomas in a young man––anogenital 'field effect' in the immunosuppressed male? Frisch M, et al. **Scand J Infect Dis** 1996;28(6):629–32

Multiple but different urothelial tumours in one side of a urinary tract. Shokeir AA, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):199–201

Squamous cell carcinoma of the prostate. Uchibayashi T, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):223–4 (6 ref.)

Neoadjuvant chemotherapy with cisplatinum/5–fluorouracil/low–dose leucovorin for advanced squamous cell carcinoma of the esophagus. Ide H, et al. **Semin Surg Oncol** 1997 Jul–Aug;13(4):263–9

Squamous cell carcinoma arising in an unhealed wound in Crohn's disease. Sarani B, et al. **South Med J** 1997 Sep; 90(9):940–2

Intramedullary spinal cord metastasis: report of three cases and review of the literature. Connolly ES Jr, et al. **Surg Neurol** 1996 Oct;46(4):329–37; discussion 337–8

Orthotopic engraftment of human lung tumours in SCID mice for the study of metastasis. Cuenca RE, et al. **Surg Oncol** 1996 Apr;5(2):85–91

Prognostic factors for cutaneous squamous cell and basal cell carcinoma. Determinants of risk of recurrence, metastasis, and development of subsequent skin cancers. Barksdale SK, et al. **Surg Oncol Clin N Am** 1997 Jul;6(3):625–38 (53 ref.)

Cervical lymphatics and squamous cell carcinoma of the head and neck: biologic significance and therapeutic considerations. Carlson GW. **Surg Oncol Clin N Am** 1996 Jan;5(1):65–77 (67 ref.)

Anal squamous cell cancer nodal metastases: prognostic significance and therapeutic considerations. Cohen AM, et al. **Surg Oncol Clin N Am** 1996 Jan;5(1):203–10

Immunohistochemical studies of vascular volume and proliferative activity in squamous cell carcinoma of the esophagus. Koide N, et al. **Surg Today** 1997;27(2):99–106

Oral squamous cell carcinoma in ad libitum–fed and food–restricted Brown–Norway rats. Thurman JD, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):217–24

Biopsy of nonpalpable cervical lymph nodes: selection criteria for ultrasound–guided biopsy in patients with head and neck squamous cell carcinoma. Kruyt RH, et al. **Ultrasound Med Biol** 1996;22(4):413–9

Factor XIIIa–positive dendrocytes and proliferative activity of cutaneous cancers. Piérard–Franchimont C, et al. **Virchows Arch** 1996 Sep;429(1):43–8

Human urinary bladder–carcinoma cells are non–osteoinductive. Włodarski KH, et al. **World J Urol** 1996;14 Suppl 1:S16–20

[Reversion of malignant phenotypes of human lung squamous carcinoma cells by ornithine decarboxylase antisense RNA] Guan J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar; 18(2):81–3 (Eng. Abstr.) **(Chi)**

[The proliferative activity of laryngeal carcinoma and its relationship to histological malignancy and prognosis] Zhang Q, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(5):305–7 (Eng. Abstr.) **(Chi)**

[777 cases of the primary conjunctival neoplasms] Feng G, et al. **Yen Ko Hsueh Pao** 1995 Dec;11(4):211-5 (Eng. Abstr.) **(Chi)**

[Is involvement of the clitoris in epidermoid carcinoma of the vulva an adverse prognostic sign?] Masák L, et al. **Ceska Gynekol** 1996 Oct;61(5):299-301 (Eng. Abstr.) **(Cze)**

[Objective histological grading of squamous and adenosquamous lung cancer] Ladekarl M, et al. **Ugeskr Laeger** 1996 Sep 30;158(40):5611-5 (Eng. Abstr.) **(Dan)**

[Squamous cell carcinoma in neuropathic plantar ulcers in leprosy: another example of Marjolin's ulcer] Schoeman BJ. **S Afr Med J** 1996 Aug;86(8):966-9 (Eng. Abstr.) **(Dut)**

[Apropos of a case of epidermoid carcinoma metastasizing into the digital pulp] Horn GF. **Ann Chir Plast Esthet** 1996 Jun;41(3):308-10 (Eng. Abstr.) **(Fre)**

[Carcinoma of the oral cavity in adults less than 30 years of age] Duroux S, et al. **Rev Stomatol Chir Maxillofac** 1996; 97(4):225-8 (Eng. Abstr.) **(Fre)**

[Discontinuous lymph node metastases ("skipping") in malignant lung tumors] Junker K, et al. **Chirurg** 1997 Jun; 68(6):596-9; discussion 600 (Eng. Abstr.) **(Ger)**

[Endosonographic diagnosis in preoperative radiotherapy of locally advanced rectal carcinoma] Kuntz C, et al. **Chirurg** 1997 Jan;68(1):57-62 (Eng. Abstr.) **(Ger)**

[Development of squamous cell carcinoma in chronic anal eczema and therapeutic consequences] Sommer B, et al. **Hautarzt** 1996 Nov;47(11):850-3 (Eng. Abstr.) **(Ger)**

[Panendoscopy. Reliable routine method for staging squamous epithelial carcinomas of the upper aerodigestive tract?] Baumann I, et al. **HNO** 1996 Sep;44(9):489-91 **(Ger)**

[The significance of the nucleolus organizer region antigen for the differentiation of laryngeal dysplasias and laryngeal carcinoma] Martin H, et al. **HNO** 1996 Jan;44(1):22-6 (Eng. Abstr.) **(Ger)**

[Prognostic and therapeutic significance of single disseminated tumor cells in lymph nodes in esophageal carcinoma] Izbicki JR, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:781-4 (Eng. Abstr.) **(Ger)**

[Effects of chronic alcohol drinking on mouth mucosa. A morphometric study] Born IA, et al. **Laryngorhinootologie** 1996 Dec;75(12):754-8 (Eng. Abstr.) **(Ger)**

[Expression of cellular antigen of hypopharyngeal carcinoma in different culture conditions] Haas I, et al. **Laryngorhinootologie** 1996 Sep;75(9):543-7 (Eng. Abstr.) **(Ger)**

[Photodynamic diagnosis of neoplasms of the mouth cavity after local administration of 5-aminolevulinic acid] Leunig A, et al. **Laryngorhinootologie** 1996 Aug;75(8):459-64 (Eng. Abstr.) **(Ger)**

[Systematic analysis of cervical lymph node metastasis of larynx and hypopharynx carcinomas--a clinical computerized tomography study with special reference to extension of the primary tumor] Pfreundner L, et al. **Laryngorhinootologie** 1996 Oct;75(10):602-10 (Eng. Abstr.) **(Ger)**

[Malignant degeneration of juvenile laryngeal papillomatosis?] Schick B, et al. **Laryngorhinootologie** 1997 Mar;76(3):150-4 (Eng. Abstr.) **(Ger)**

[Indications for and accuracy of biopsy diagnosis in head-neck surgery] Fischer HP, et al. **Pathologe** 1997 Jan; 18(1):101-7 **(Ger)**

[Lymphoepithelioma-like lung carcinomas] Wöckel W, et al. **Pathologe** 1997 Mar;18(2):147-52 (15 ref.) (Eng. Abstr.) **(Ger)**

[Intratumor pO2, S-phase fraction and p53 status in cervix carcinomas] Hänsgen G, et al. **Strahlenther Onkol** 1997 Jul; 173(7):385-7 (Eng. Abstr.) **(Ger)**

[Case of the month] Buchmann P. **Ther Umsch** 1997 Apr; 54(4):209-10 **(Ger)**

[Neuroendocrine differentiated carcinoma of the uterine cervix] Horn LC, et al. **Zentralbl Gynakol** 1996; 118(12):679-83 (Eng. Abstr.) **(Ger)**

[Primary carcinoma of Bartholin's glands with HPV 18 detection] Schwarzlos G, et al. **Zentralbl Gynakol** 1997; 119(3):133-5 (17 ref.) (Eng. Abstr.) **(Ger)**

[Steroid hormone receptors in squamous cell carcinoma of the head and neck] Budai B, et al. **Orv Hetil** 1997 Mar 23;138(12):723-7 (Eng. Abstr.) **(Hun)**

[Laryngeal cancer and angiogenesis] Beatrice F, et al. **Acta Otorhinolaryngol Ital** 1996 Aug;16(4):355-62 (Eng. Abstr.) **(Ita)**

[Cytokeratin and vimentin expression in laryngeal squamous cell carcinoma] Cavicchi O, et al. **Acta Otorhinolaryngol Ital** 1996 Oct;16(5):420-7 (Eng. Abstr.) **(Ita)**

[Carcinoma of the penis: anatomo-pathologic features] Tardanico R. **Arch Ital Urol Androl** 1996 Jun;68(3):137-9 (Eng. Abstr.) **(Ita)**

[Association of a granular-cell tumor with an epidermoid carcinoma of the esophagus] Perego P, et al. **Pathologica** 1995 Oct;87(5):551-3 (Eng. Abstr.) **(Ita)**

[Pathological evaluation of superselective one-shot intra-arterial infusion chemotherapy for head and neck tumors] Handa T, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1479-81 (Eng. Abstr.) **(Jpn)**

[Growth suppression of squamous cell carcinoma cell lines by PKCs--possible application to gene therapy] Fujii M. **Kokubyo Gakkai Zasshi** 1997 Mar;64(1):52-66 (Eng. Abstr.) **(Jpn)**

[Usefulness of MR imaging in evaluating and predicting effect of neoadjuvant chemotherapy on uterine cervical carcinoma] Amano M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):176-81 (Eng. Abstr.) **(Jpn)**

[Biological effect of carbon beams on cultured human cells] Ka WJ, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug;56(9):669-73 (Eng. Abstr.) **(Jpn)**

[High-resolution CT of epidermoid carcinoma in peripheral lung fields: radiologic-pathologic correlation] Sakai F, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):917-23 (Eng. Abstr.) **(Jpn)**

[Biological behavior of hypopharyngeal carcinoma] Zhou LX. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jan;100(1):59-67 (Eng. Abstr.) **(Jpn)**

[Analysis of small peripheral lung cancer diagnosed by open lung or thoracoscopic biopsy] Nomori H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):146-8 (Eng. Abstr.) **(Jpn)**

[Growth of squamous cells lung cancer between alveolar basement membrane and alveolar epithelium] Kawabata Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):878-84 (Eng. Abstr.) **(Jpn)**

[Prognostic value of metastases to lymph nodes of the neck planoepithelial carcinoma of the oral cavity] Myśliwiec L, et al. **Otolaryngol Pol** 1996;50(1):52-7 (Eng. Abstr.) **(Pol)**

[The influence of the Co-60 therapy on the hearing in laryngeal cancers] Namysłowski G, et al. **Otolaryngol Pol** 1996;50(3):286-90 (Eng. Abstr.) **(Pol)**

[Prognostic factors in radiotherapy of supraglottic cancer] Składowski K, et al. **Otolaryngol Pol** 1996;50(6):579-86 (Eng. Abstr.) **(Pol)**

[A rare case of carcinoma cuniculatum within the nasal cavity and paranasal sinuses] Szmeja Z, et al. **Otolaryngol Pol** 1996;50(3):325-8 (Eng. Abstr.) **(Pol)**

[Estimation of aromatic DNA adduct levels in laryngeal tumors in relation to cancer staging] Szyfter W, et al. **Otolaryngol Pol** 1995;49(5):410-7 (Eng. Abstr.) **(Pol)**

[Metaplastic breast cancer] Volchenko NN, et al. **Arkh Patol** 1996 Jan-Feb;58(1):10-4 (Eng. Abstr.) **(Rus)**

[Cell proliferation in migrating colonies of epidermoid carcinoma A-431 cells in culture] Samarova AV, et al. **Ontogenez** 1997 Jul-Aug;28(4):288-92 (Eng. Abstr.) **(Rus)**

[The clinico-morphological characteristics, diagnosis and treatment of early stomach cancer] Simonov NN, et al. **Vestn Khir Im I I Grek** 1997;156(1):28-31 (Eng. Abstr.) **(Rus)**

[Adenosquamous carcinoma of te larynx. A case report] Gallardo A, et al. **Acta Otorrinolaringol Esp** 1997 Apr; 48(3):243-5 (Eng. Abstr.) **(Spa)**

[Changes in the nuclear morphometry in oropharyngeal epidermoid carcinoma after induction chemotherapy] Santa Cruz Ruiz S, et al. **Acta Otorrinolaringol Esp** 1997 Mar; 48(2):93-7 (Eng. Abstr.) **(Spa)**

[Magnetic resonance and metastatic neck adenopathies. Usefulness of the technique for cervical staging] Mompó Romero L, et al. **An Otorrinolaringol Ibero Am** 1997; 24(2):113-21 (Eng. Abstr.) **(Spa)**

[Cytohistological agreement of fine-needle transthoracic lung puncture-aspiration (FNTLPA) in malignant lesions] Hernández Borge J, et al. **Arch Bronconeumol** 1997 May; 33(5):225-9 (Eng. Abstr.) **(Spa)**

[Proliferating cell nuclear antigen in cervical cancer and precursor lesions] Wistuba I, et al. **Rev Med Chil** 1995 Sep; 123(9):1077-83 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Peripheral serotonergic mechanisms in the cardiovascular system of epidermoid lung cancer patients. Filipowski T, et al. **Acta Physiol Hung** 1996;84(3):285-6

Increased acetaldehyde production by mouthwashings from patients with oral cavity, laryngeal, or pharyngeal cancer. Jokelainen K, et al. **Alcohol Clin Exp Res** 1996 Oct; 20(7):1206-10

The role of syndecan-1 in malignancies. Inki P, et al. **Ann Med** 1996 Feb;28(1):63-7 (32 ref.)

Baroreflex dysfunction after nasopharyngectomy and bilateral carotid isolation. Lee HT, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr;123(4):434-7

Reduction of hypoxic cells in solid tumours induced by mild hyperthermia: special reference to differences in changes in the hypoxic fraction between total and quiescent cell populations. Masunaga S, et al. **Br J Cancer** 1997; 76(5):588-93

Changes in gap junctional intercellular communication in mouse skin carcinogenesis. Holden PR, et al. **Carcinogenesis** 1997 Jan;18(1):15-21

Transfection of beta 4 integrin subunit into a neoplastic keratinocyte line fails to restore terminal differentiation capacity or influence proliferation. Jones J, et al. **Cell Adhes Commun** 1996 Nov;4(4-5):307-16

Swallowing and pharyngeal function in postoperative pharyngeal cancer patients. Martini DV, et al. **Ear Nose Throat J** 1997 Jul;76(7):450-3, 456

Characteristics of patients with vulvar cancer: an analysis of 94 patients. Edwards CL, et al. **Eur J Gynaecol Oncol** 1996;17(5):351-3

Ki-67 expression in vulvar carcinoma. Preliminary results. Marchetti M, et al. **Eur J Gynaecol Oncol** 1996;17(5):361-4

Tumor angiogenesis. Petruzzelli GJ. **Head Neck** 1996 May-Jun;18(3):283-91 (49 ref.)

Prognostic factors in carcinoma of the vulva: a clinicopathologic and DNA flow cytometric study. Drew PA, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):235-41

Proliferation and hypoxia in human squamous cell carcinoma of the cervix: first report of combined immunohistochemical assays. Kennedy AS, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):897-905

Deleterious effects of prostaglandin E2 in oesophageal carcinogenesis. Morgan G. **Med Hypotheses** 1997 Feb; 48(2):177-81 (10 ref.)

PREVENTION & CONTROL

Cervical cancer screening in Japan. A case-control study. Sato S, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1103-6

Inhibition by streptococcal immunopotentiator OK432 of lymph-node metastasis in hamster cheek-pouch carcinoma with enhancement of tumour necrosis factor-alpha and interleukin-6 in serum. Nakajima J, et al. **Arch Oral Biol** 1996 May;41(5):513-6

Retinoic acid and N-(4-hydroxy-phenyl) retinamide suppress growth of esophageal squamous carcinoma cell lines. Muller A, et al. **Cancer Lett** 1997 Feb 26;113(1-2):95-101

Chemoprevention of 4-nitroquinoline 1-oxide-induced oral carcinogenesis in rats by flavonoids diosmin and hesperidin, each alone and in combination. Tanaka T, et al. **Cancer Res** 1997 Jan 15;57(2):246-52

1,4-phenylenebis(methylene)selenocyanate exerts exceptional chemopreventive activity in rat tongue carcinogenesis. Tanaka T, et al. **Cancer Res** 1997 Sep 1;57(17):3644-8

Protection against induction of mouse skin papillomas with low and high risk of conversion to malignancy by green tea polyphenols. Katiyar SK, et al. **Carcinogenesis** 1997 Mar;18(3):497-502

Outcomes of a placebo run-in period in a head and neck cancer chemoprevention trial. Hudmon KS, et al. **Control Clin Trials** 1997 Jun;18(3):228-40

Double blind randomized trial on occult blood bead (OBB) and gastroscopy-pathology screening for gastro-oesophageal cancer. Qin DX, et al. **Eur J Cancer Prev** 1997 Apr;6(2):158-61

Prophylactic chemoradiation of inguinofemoral lymph nodes in patients with locally extensive vulvar cancer. Leiserowitz GS, et al. **Gynecol Oncol** 1997 Sep;66(3):509-14

Anal cytology as a screening tool for anal squamous intraepithelial lesions. Palefsky JM, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Apr 15;14(5):415-22

Current status of retinoids in chemoprevention of oral squamous cell carcinoma: an overview. Conley BA, et al. **J Craniomaxillofac Surg** 1996 Dec;24(6):339-45 (56 ref.)

Non-melanoma skin cancer: a case-control study on risk factors and protective measures. Suárez-Varela MM, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):255-61

Reasons for cervical cancer despite extensive screening. Stenkvist B, et al. **J Med Screen** 1996;3(4):204-7

Low-dose isotretinoin versus beta-carotene to prevent oral carcinogenesis: long-term follow-up. Papadimitrakopoulou VA, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):257-8

Effects of selenium supplementation for cancer prevention in patients with carcinoma of the skin. A randomized controlled trial. Nutritional Prevention of Cancer Study Group [see comments] [published erratum appears in JAMA 1997 May 21;277(19):1520] Clark LC, et al. **JAMA** 1996 Dec 25;276(24):1957-63. Comment in: JAMA 1996 Dec 25;276(24):1984-5. Comment in: JAMA 1997 Mar 19;277(11):880; discussion 881. Comment in: JAMA 1997 Mar 19;277(11):880-1; discussion 881.

Inhibitory effects of dietary protocatechuic acid and costunolide on 7,12-dimethylbenz[a]anthracene-induced hamster cheek pouch carcinogenesis. Ohnishi M, et al. **Jpn J Cancer Res** 1997 Feb;88(2):111-9

Detecting, diagnosing, and preventing oral cancer. Shugars DC, et al. **Nurse Pract** 1997 Jun;22(6):105, 109-10, 113-5 passim (20 ref.)

[Screening for cutaneous carcinoma] Beani JC. **Bull Cancer** 1996 Sep;83(9):755-7 (Eng. Abstr.) **(Fre)**

[Detection of early cancer by lung cancer screening] Saito Y, et al. **Nippon Rinsho** 1996 May;54(5):1410-4 (13 ref.) (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Life stress and risk of precancerous cervical lesions: a pretest directed by the life stress model. Lovejoy NC, et al. **Oncol Nurs Forum** 1997 Jan-Feb;24(1):63-70

RADIOGRAPHY

Esophageal carcinoma [editorial; comment] Thompson WM. **Abdom Imaging** 1997 Mar-Apr;22(2):138-42. Comment on: Abdom Imaging 1997 Mar-Apr;22(2):132-7.

Thin-section oblique CT with 25 degrees cranially tilted images. Evaluation of pulmonary tumors adjacent to the interlobar fissures. Uchisako H, et al. **Acta Radiol** 1997 Mar; 38(2):246-9

Carcinoma of the esophagus and esophagogastric junction: sensitivity of radiographic diagnosis. Levine MS, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1423-6

The impact of routine CT of the chest on the diagnosis and

management of newly diagnosed squamous cell carcinoma of the head and neck. Reiner B, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):667–71

The value of computed tomography scan versus an explorative surgical approach for removal of squamous cell carcinoma of the posterior pharyngeal wall. van den Hoogen FJ, et al. **Am J Surg** 1996 Dec;172(6):701–3

Image interpretation in CT of laryngeal carcinoma: a study on intra- and interobserver reproducibility. Hermans R, et al. **Eur Radiol** 1997;7(7):1086–90

Neovaginal malignant melanoma following surgery and radiation for vulvar squamous cell carcinoma. Lara PN Jr, et al. **Gynecol Oncol** 1997 Jun;65(3):520–2 (18 ref.)

Significance of routine annual esophagram for early detection of carcinoma of the esophagus. Ohno S, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):539–45

CT findings of laryngeal tuberculosis: comparison to laryngeal carcinoma. Kim MD, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):29–34

Lung cancer in patients with idiopathic pulmonary fibrosis: CT findings. Lee HJ, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):979–82

CT surveillance of the thorax in patients with squamous cell carcinoma of the head and neck: a preliminary experience. Mercader VP, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):412–7

Utility of low-dose helical CT as a second step after plain chest radiography for mass screening for lung cancer. Mori K, et al. **J Thorac Imaging** 1997 Jul;12(3):173–80

Early squamous cell carcinoma of the lung: CT and pathologic correlation. Saida Y, et al. **Radiology** 1996 Oct; 201(1):61–5

[Value of the esophagogram in preoperative assessment of esophageal carcinoma] Hackländer T, et al. **Aktuelle Radiol** 1997 Jan;7(1):35–40 (Eng. Abstr.) **(Ger)**

[Aberrations of the p 53 gene in roentgenographically occult squamous cell carcinoma of the lung] Endoh C, et al. **Kyobu Geka** 1996 Nov;49(12):990–3 (Eng. Abstr.) **(Jpn)**

[A case of right upper lobe carcinoma with lung torsion changed in position] Ido K, et al. **Nippon Geka Gakkai Zasshi** 1996 Oct;97(10):932–5 (Eng. Abstr.) **(Jpn)**

[High-resolution CT of epidermoid carcinoma in peripheral lung fields: radiologic-pathologic correlation] Sakai F, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Nov; 56(13):917–23 (Eng. Abstr.) **(Jpn)**

[Cavitary lung cancer with a fungus ball-like shadow] Sugimoto M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Nov; 34(11):1289–93 (Eng. Abstr.) **(Jpn)**

[The use of x-ray microanalysis and transmission microscopy in studies of the chemical composition and ultrastructure of the microregions of precancerous tissues of the larynx] Pilch J, et al. **Otolaryngol Pol** 1996;50(5):471–8 (Eng. Abstr.) **(Pol)**

RADIONUCLIDE IMAGING

In vivo study of a technetium labelled anti-EGFr MoAB. Scopinaro F, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1761–5

The use of positron emission tomography in the evaluation of orofacial malignancy and disease. Hemingway R, et al. **Br Dent J** 1996 Oct 5;181(7):250–3

Metastatic thymic carcinoma demonstrated by radionuclide bone scan. Becker CP, et al. **Clin Nucl Med** 1996 Jul; 21(7):583–4

Esophageal cancer detection with Tc-99m tetrofosmin SPECT. Watanabe N, et al. **Clin Nucl Med** 1997 Jun; 22(6):431–3

Mandibular invasion diagnosed by SPECT. Curran AJ, et al. **Clin Otolaryngol** 1996 Dec;21(6):542–5

A prospective study of PET-FDG imaging for the assessment of head and neck squamous cell carcinoma. Wong WL, et al. **Clin Otolaryngol** 1997 Jun;22(3):209–14

A comparative study of technetium-99m sestamibi and technetium-99m tetrofosmin single-photon tomography in the detection of nasopharyngeal carcinoma. Kostakoglu L, et al. **Eur J Nucl Med** 1997 Jun;24(6):621–8

Use of 111In-DTPA-octreotide scintigraphy in the diagnosis of neuroendocrine and non-neuroendocrine tumors of the lung. Preliminary results. Oliaro A, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):313–5

Improvement of radiation treatment planning in squamous-cell head and neck cancer by immuno-SPECT. Adamietz IA, et al. **J Nucl Med** 1996 Dec;37(12):1942–6

Influence of hypoxia on tracer accumulation in squamous-cell carcinoma: in vitro evaluation for PET imaging. Minn H, et al. **Nucl Med Biol** 1996 Nov; 23(8):941–6

Visualization of lung cancer with 99Tcm-tetrofosmin imaging: a comparison with 201T1. Takekawa H, et al. **Nucl Med Commun** 1997 Apr;18(4):341–5

[Myocardial metastasis in the right ventricle from uterine cervical carcinoma with high 67Ga-citrate accumulation: a case report] Ando K, et al. **Kaku Igaku** 1996 Sep; 33(9):1011–4 (Eng. Abstr.) **(Jpn)**

RADIOTHERAPY

Reappearance of cancer of the cervix 19 years after radiotherapy. Ampil F, et al. **Acta Obstet Gynecol Scand** 1997 Jul;76(6):605–6

Brachytherapy of squamous cell carcinoma of the nasal vestibule. Evensen JF, et al. **Acta Oncol** 1996;35 Suppl 8:87–92

Results of radiotherapy for T1 carcinoma of the glottis by fractions of 2.3 Gy per day. Plataniotis GA, et al. **Acta Oncol** 1997;36(3):342–3

Radical radiotherapy versus brachytherapy plus surgery in carcinoma of the cervix 2A and 2B—long-term results from a randomized study 1968–1980. Sundfør K, et al. **Acta Oncol** 1996;35 Suppl 8:99–107

Immunohistochemical and quantitative changes in salivary EGF, amylase and haptocorrin following radiotherapy for oral cancer. Christensen ME, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):137–43

Increased radiosensitivity is associated with p53 mutations in cell lines derived from oral cavity carcinoma. Pekkola-Heino K, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):341–4

Combined chemotherapy and radiation therapy in head and neck cancer. Nishiyama K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;524:79–82

Stroboscopic observation of the larynx after radiation in patients with T1 glottic carcinoma. Tsunoda K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:165–6

Radiation therapy for squamous cell carcinoma in dystrophic epidermolysis bullosa: case reports and literature review. Bastin KT, et al. **Am J Clin Oncol** 1997 Feb;20(1):55–8 (23 ref.)

Preoperative simultaneous chemoradiotherapy in locally advanced cancer of the oral cavity and oropharynx. del Campo JM, et al. **Am J Clin Oncol** 1997 Feb;20(1):97–100

Neck failure in T2N0 squamous cell carcinoma of the true vocal cords: the Fox Chase experience and review of the literature. Fein DA, et al. **Am J Clin Oncol** 1997 Apr; 20(2):154–7 (17 ref.)

Phase I–II study of combined 5-fluorouracil and cisplatin chemotherapy and altered fractionation radiotherapy for advanced squamous cell carcinoma of the cervix. Fishman A, et al. **Am J Clin Oncol** 1997 Aug;20(4):342–7

Treatment of squamous cell carcinoma of the esophagus with alternating radiotherapy and chemotherapy (cisplatin, methotrexate, and peplomycin). Kagami Y, et al. **Am J Clin Oncol** 1997 Feb;20(1):16–8

Local tumor control in radiation therapy of cancers in the head and neck. Levendag PC, et al. **Am J Clin Oncol** 1996 Oct;19(5):469–77

Can prophylactic application of immunoglobulin decrease radiotherapy-induced oral mucositis? Mose S, et al. **Am J Clin Oncol** 1997 Aug;20(4):407–11

Sequential chemotherapy and radiotherapy for squamous cell esophageal carcinoma. Sharma D, et al. **Am J Clin Oncol** 1997 Apr;20(2):151–3

Squamous cell carcinoma in a thyroglossal duct cyst (TGDC): clinical presentation, diagnosis, and management. Hanna E. **Am J Otolaryngol** 1996 Sep–Oct;17(5):353–7 (9 ref.)

Multimodality treatment of squamous cell carcinoma complicating pilonidal disease. Kulaylat MN, et al. **Am Surg** 1996 Nov;62(11):922–9 (59 ref.)

Anal canal cancer: current treatment and results. Cummings BJ. **Ann Acad Med Singapore** 1996 May;25(3):460–7 (45 ref.)

Radical radiotherapy for carcinoma of the uterine cervix using high dose rate brachytherapy—a preliminary report. Khoo-Tan HS, et al. **Ann Acad Med Singapore** 1996 May; 25(3):367–70

Interstitial iodine 125 in advanced recurrent squamous cell carcinoma of the head and neck with follow-up evaluation of carotid artery by ultrasound. Chen KY, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):955–61

Radiotherapy in early glottic carcinoma. Kanonier G, et al. **Ann Otol Rhinol Laryngol** 1996 Oct;105(10):759–63

Therapeutic and imaging capacity of tumor-localizing radiosensitive Mn-porphyrin on SCCVII tumor-bearing C3H/He mice. Nakajima S, et al. **Anticancer Drugs** 1997 Apr;8(4):386–90

Radiation therapy and chemotherapy in the conservative treatment of carcinoma of the anal canal: survival and late morbidity in a series of 25 patients. Gabriele AM, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):653–6

Para-aortic lymph node recurrence in patients with cervical cancer treated with postoperative irradiation to the pelvis. Takahashi M, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2265–8

Comparison of the long-term results of brachytherapy for T1–2N0 oral tongue cancer treated with Ir-192 and Ra-226. Yamazaki H, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2819–22

Results of definitive radiotherapy in T1 and T2 glottic carcinoma: Institute of Rotary Cancer Hospital experience. Mohanti BK, et al. **Australas Radiol** 1996 Aug;40(3):287–90

Comparative role of three-dimensional radiotherapy planning and inhomogeneity corrections in carcinoma of the tongue. Rakshak M, et al. **Australas Radiol** 1997 May;41(2):143–7

High dose rate brachytherapy before external beam irradiation in inoperable oesophageal cancer. Taal BG, et al. **Br J Cancer** 1996 Nov;74(9):1452–7

Modification of the response of a quiescent cell population within a murine solid tumour to boron neutron capture irradiation: studies with nicotinamide and hyperthermia. Masunaga S, et al. **Br J Radiol** 1997 Apr;70:391–8

The Saudi experience with neutron therapy in locally advanced head and neck cancers. Flores AD, et al. **Bull Cancer Radiother** 1996;83 Suppl:106s–9s

Fast neutron therapy of bronchus carcinoma: the pooled results from two European centres. Lessel A. **Bull Cancer Radiother** 1996;83 Suppl:130s–4s

Prognostic significance of clinical factors and p53 expression in patients with glottic carcinoma treated with radiation therapy. Kokoska MS, et al. **Cancer** 1996 Oct 15; 78(8):1693–700

Evaluation of multimodality treatment of locoregional esophageal carcinoma by Southwest Oncology Group 9060. Poplin EA, et al. **Cancer** 1996 Nov 1;78(9):1851–6

Radiotherapeutic management of cervical carcinoma that complicates pregnancy. Sood AK, et al. **Cancer** 1997 Sep 15;80(6):1073–8

Effect of Krestin as adjuvant treatment following radical radiotherapy in non-small cell lung cancer patients. Hayakawa K, et al. **Cancer Detect Prev** 1997;21(1):71–7

Concurrent chemoradiotherapy for salvage in relapsed squamous cell head and neck cancer. Tan EH, et al. **Cancer Invest** 1997;15(5):422–8

Intensive chemoradiation followed by esophagectomy for squamous cell and adenocarcinoma of the esophagus [see comments] Forastiere AA, et al. **Cancer J Sci Am** 1997 May–Jun;3(3):144–52. Comment in: Cancer J Sci Am 1997 May–Jun;3(3):137–9.

Inhibition of Raf-1 protein kinase by antisense phosphorothioate oligodeoxyribonucleotide is associated with sensitization of human laryngeal squamous carcinoma cells to gamma radiation. Soldatenkov VA, et al. **Cancer J Sci Am** 1997 Jan–Feb;3(1):13–20

Role of accelerated fractionated irradiation for supraglottic carcinoma: assessment of results. Wang CC, et al. **Cancer J Sci Am** 1997 Mar–Apr;3(2):88–91

In vitro evaluation of Taxol combined with radiations in human squamous cell carcinoma spheroids. Griffon-Etienne G, et al. **Cancer Lett** 1996 Dec 3; 109(1–2):23–32

Paclitaxel enhances in vitro radiosensitivity of squamous carcinoma cell lines of the head and neck. Leonard CE, et al. **Cancer Res** 1996 Nov 15;56(22):5198–204

Long-term survival and symptom palliation in small primary bronchial carcinomas following treatment with intraluminal radiotherapy alone. Gollins SW, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):239–46

A modelled comparison of the effects of using different ways to compensate for missed treatment days in radiotherapy. Hendry JH, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(5):297–307

Squamous cell carcinoma of the lip: the role of electron treatment. Sykes AJ, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(6):384–6

The treatment of recurrence following fast neutron therapy for head and neck malignancy. Asgarali S, et al. **Clin Otolaryngol** 1996 Jun;21(3):274–7

Status of accelerated fractionation radiotherapy in head and neck squamous cell carcinomas. Bourhis J, et al. **Curr Opin Oncol** 1997 May;9(3):262–6 (50 ref.)

Squamous cell carcinoma of the true vocal cord: outcome following definitive external beam radiation therapy. Rudoler SB, et al. **Del Med J** 1997 Mar;69(3):153–4

Carcinoma of the esophagus treated with radical chemoradiation 19 years after irradiation for recurrent breast cancer. MacLeod C, et al. **Dis Esophagus** 1997 Apr; 10(2):145–8

Enhanced acute toxicity in oropharynx carcinoma treated with radiotherapy and concomitant cisplatin, 5-fluorouracil and mitomycin C. Berger C, et al. **Eur J Cancer** 1996 Sep; 32A(10):1707–11

Comparison of induction chemotherapy before radiotherapy with radiotherapy only in patients with locally advanced squamous cell carcinoma of the lung. The Swedish Lung Cancer Study Group. Brodin O, et al. **Eur J Cancer** 1996 Oct;32A(11):1893–900

Enhanced radioresponse of paclitaxel-sensitive and -resistant tumours in vivo. Milross CG, et al. **Eur J Cancer** 1997 Jul;33(8):1299–308

Response to radiotherapy of human uterine cervix carcinoma is not correlated with rearrangements of the Ha-ras-1 and/or c-myc genes. Polischouk AG, et al. **Eur J Cancer** 1997 May;33(6):942–9

Postoperative management of patients with stage Ib endometrial carcinoma. Sainz de la Cuesta R, et al. **Eur J Gynaecol Oncol** 1996;17(5):338–41

Outcomes of radiotherapy and combined modality treatment of cervical cancer in patients under 35. Vishnevskaya EE, et al. **Eur J Gynaecol Oncol** 1996;17(5):400–2

Indium-111 bleomycin complex for radiochemotherapy of head and neck cancer—dosimetric and biokinetic aspects [published erratum appears in Eur J Nucl Med 1997 Feb;24(2):235] Kairemo KJ, et al. **Eur J Nucl Med** 1996 Jun;23(6):631–8

Post-operative brachytherapy: a prognostic factor for local control in epidermoid carcinomas of the mouth floor. Lapeyre M, et al. **Eur J Surg Oncol** 1997 Jun;23(3):243–6

Post-operative radiotherapy in carcinoma of buccal mucosa, a prospective randomized trial. Mishra RC, et al. **Eur J Surg Oncol** 1996 Oct;22(5):502–4

Primary radiation, cisplatin, and 5-fluorouracil for advanced squamous carcinoma of the vulva. Cunningham MJ, et al. **Gynecol Oncol** 1997 Aug;66(2):258–61 (19 ref.)

Prophylactic chemoradiation of inguinofemoral lymph nodes

in patients with locally extensive vulvar cancer. Leiserowitz GS, et al. **Gynecol Oncol** 1997 Sep;66(3):509–14

Free gastro-omental flap reconstruction of the complex, irradiated pharyngeal wound. Carlson GW, et al. **Head Neck** 1997 Jan;19(1):68–71 (11 ref.)

Neurotoxicity in a phase I trial of continuous infusion cisplatin with hyperfractionated radiotherapy for locally advanced head and neck cancer. Clamon GH, et al. **Head Neck** 1996 May–Jun;18(3):236–41

Early squamous cell carcinoma of the hypopharynx: outcomes of treatment with radiation alone to the primary disease. Garden AS, et al. **Head Neck** 1996 Jul–Aug; 18(4):317–22

Detailed quality of life assessment in patients treated with primary radiotherapy for squamous cell cancer of the base of the tongue. Harrison LB, et al. **Head Neck** 1997 May; 19(3):169–75

The impact of temporary iodine-125 interstitial implant boost in the primary management of squamous cell carcinoma of the oropharynx. Horwitz EM, et al. **Head Neck** 1997 May;19(3):219–26

Salvage surgery after radiotherapy failure in T1–T2 squamous cell carcinoma of the glottic larynx. McLaughlin MP, et al. **Head Neck** 1996 May–Jun;18(3):229–35

Radiotherapy for squamous cell carcinoma of the supraglottic larynx: an alternative to surgery. Mendenhall WM, et al. **Head Neck** 1996 Jan–Feb;18(1):24–35

Prognostic determinants in supraglottic carcinoma: univariate and Cox regression analysis. Nicolai P, et al. **Head Neck** 1997 Jul;19(4):323–34

Combined chemotherapy and radiotherapy versus surgery and postoperative radiotherapy for advanced hypopharyngeal cancer. Zelefsky MJ, et al. **Head Neck** 1996 Sep–Oct;18(5):405–11

Simultaneous combination therapy of carboplatin and radiation for patients with carcinoma of the esophagus. Ohno S, et al. **Hepatogastroenterology** 1997 Jan–Feb; 44(13):181–6

Transferrin-liposome-mediated p53 sensitization of squamous cell carcinoma of the head and neck to radiation in vitro. Xu L, et al. **Hum Gene Ther** 1997 Mar 1;8(4):467–75

Assessment of chlorpromazine as radiation sensitizer and protector. Huilgol NG, et al. **Indian J Cancer** 1996 Dec; 33(4):195–200

Cell kinetics and tumor regression during radiotherapy in head and neck squamous-cell carcinomas. Corvò R, et al. **Int J Cancer** 1996 Oct 9;68(2):151–5

13-cis retinoic acid and interferon-alpha +/- irradiation in the treatment of squamous-cell carcinomas. Hoffmann W, et al. **Int J Cancer** 1997 Feb 7;70(4):475–7

Radiation therapy duration influences overall survival in patients with cervical carcinoma. Delaloye JF, et al. **Int J Gynaecol Obstet** 1997 Jun;57(3):295–303

The outcome of radiation therapy in elderly patients with advanced cervical cancer. Minagawa Y, et al. **Int J Gynaecol Obstet** 1997 Sep;58(3):305–9

Uptake and retention of nitroimidazole-carboranes designed for boron neutron capture therapy in experimental murine tumours: detection by 11B magnetic resonance spectroscopy. Wood PJ, et al. **Int J Radiat Biol** 1996 Nov; 70(5):587–92

Feasibility and outcome of a progressively accelerated concomitant boost radiotherapy schedule for head and neck carcinomas. Allal AS, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):685–9

A simple, inexpensive applicator for irradiation of localized areas of the vagina with intracavitary brachytherapy. Amdur RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):965–9

Accelerated radiation therapy for locally advanced squamous cell carcinomas of the oral cavity and oropharynx selected according to tumor cell kinetics—a phase II multicenter study. Antognoni P, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1137–45

Carcinoma of the intact uterine cervix treated with radiotherapy alone: a French cooperative study: update and multivariate analysis of prognostics factors. Barillot I, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15; 38(5):969–78

Tumor hypoxia adversely affects the prognosis of carcinoma of the head and neck. Brizel DM, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):285–9

The impact of surgical margin status and use of an interstitial implant on T1, T2 oral tongue cancers after surgery. Chao KS, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1; 36(5):1039–43

Enhanced control by radiotherapy of cervical lymph node metastases arising from nasopharyngeal carcinoma compared with nodal metastases from other head and neck squamous cell carcinomas. Chow E, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):149–54

Are recommendations from carcinoma of the cervix Patterns of Care Studies (PCS) in the United States of America (USA) applicable to centers in developing countries? Craighead PS, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):803–10

Results of a European randomized trial of Etanidazole combined with radiotherapy in head and neck carcinomas [see comments] Eschwège F, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):275–81. Comment in: Int J Radiat Oncol Biol Phys 1997 Sep 1;39(2):273–4.

Hyperfractionated external radiation therapy in stage IIIB carcinoma of uterine cervix: a prospective pilot study. Faria SL, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1; 38(1):137–42

Fractionation and glottic carcinoma [editorial; comment] Fowler JF. **Int J Radiat Oncol Biol Phys** 1997 Aug 1; 39(1):1–2. Comment on: Int J Radiat Oncol Biol Phys 1997 Aug 1;39(1):115–26.

American Brachytherapy Society (ABS) consensus guidelines for brachytherapy of esophageal cancer. Clinical Research Committee, American Brachytherapy Society, Philadelphia, PA. Gaspar LE, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):127–32

A phase I/II study of external beam radiation, brachytherapy and concurrent chemotherapy in localized cancer of the esophagus (RTOG 92–07): preliminary toxicity report. Gaspar LE, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):593–9

Concomitant boost radiotherapy for squamous carcinoma of the tonsillar fossa. Gwozdz JT, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):127–35

Radiotherapy and concomitant weekly 1-hour infusion of paclitaxel in the treatment of head and neck cancer--results from a Phase I trial. Hoffmann W, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):691–6

Does additional brachytherapy improve the effect of external irradiation? A prospective, randomized study in central lung tumors. Huber RM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):533–40

Efficacy and safety of granulocyte macrophage-colony stimulating factor (GM-CSF) on the frequency and severity of radiation mucositis in patients with head and neck carcinoma. Kannan V, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1005–10

A pilot study of concomitant boost accelerated superfractionated radiotherapy for stage III cancer of the uterine cervix. Kavanagh BD, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):561–8

Cervical lymph node metastasis from an unknown primary: is a tonsillectomy necessary? Lapeyre M, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):291–6

Influence of fraction size, total dose, and overall time on local control of T1–T2 glottic carcinoma [see comments] Le QT, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1; 39(1):115–26. Comment in: Int J Radiat Oncol Biol Phys 1997 Aug 1;39(1):1–2.

Reirradiation for recurrent nasopharyngeal carcinoma: factors affecting the therapeutic ratio and ways for improvement. Lee AW, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):43–52

Long-term regional control after radiation therapy and neck dissection for base of tongue carcinoma. Lee HJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):995–1000

Fractionated high-dose-rate and pulsed-dose-rate brachytherapy: first clinical experience in squamous cell carcinoma of the tonsillar fossa and soft palate. Levendag PC, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):497–506

External beam radiation therapy for squamous cell carcinoma of the soft palate. Medini E, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):507–11

Radiation therapy in early carcinoma of the glottic larynx T1N0M0. Medini E, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1211–3

Quality of life outcomes after primary radiotherapy for squamous cell carcinoma of the base of tongue. Moore GJ, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):351–4

Can pretreatment computed tomography predict local control in T3 squamous cell carcinoma of the glottic larynx treated with definitive radiotherapy? Pameijer FA, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1011–21

An analysis of factors influencing the outcome of postoperative irradiation for squamous cell carcinoma of the oral cavity. Parsons JT, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):137–48

Is prophylactic neck irradiation indicated in patients with squamous cell carcinoma of the maxillary sinus? Paulino AC, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1; 39(2):283–9 (25 ref.)

Chemotherapy and low-dose radiotherapy in the treatment of HIV-infected patients with carcinoma of the anal canal. Peddada AV, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1101–5

Conservative treatment by irradiation of epidermoid cancers of the anal canal: prognostic factors of tumoral control and complications. Peiffert D, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):313–24

Conservative treatment by irradiation of epidermoid carcinomas of the anal margin. Peiffert D, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):57–66

Salvage brachytherapy of posterior pharyngeal wall squamous cell carcinoma in a previously irradiated area. Pommier P, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):53–8

Metastatic carcinoma in the cervical lymph nodes from an unknown primary site: results of bilateral neck plus mucosal irradiation vs. ipsilateral neck irradiation. Reddy SP, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):797–802

Efficacy of postoperative radiation therapy for recurrent squamous cell carcinoma of the head and neck. Regine WF, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1; 39(2):297–302

Efficacy of targeted supradose cisplatin and concomitant radiation therapy for advanced head and neck cancer: the Memphis experience. Robbins KT, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):263–71

Effect of radiation and paclitaxel on p53 expression in murine tumors sensitive or resistant to apoptosis induction. Saito Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):623–31

Postoperative radiotherapy for head and neck squamous cell carcinomas: feasibility of a biphasic accelerated treatment schedule. Sanguineti G, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1147–53

Carcinoma of the nasopharynx treated by radiotherapy alone: determinants of local and regional control [see comments] Sanguineti G, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):985–96. Comment in: Int J Radiat Oncol Biol Phys 1997 Mar 15;37(5):973–4.

Treatment results and prognostic factors in 101 men treated for squamous carcinoma of the penis. Sarin R, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):713–22

Postoperative radiotherapy with concurrent cisplatin appears to improve locoregional control of advanced, resectable head and neck cancers: RTOG 88–24. Al-Sarraf M, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):777–82

Hyperfractionated radiotherapy of human tumors: overview of the randomized clinical trials. Stuschke M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):259–67

Prognostic value of hemoglobin concentration in radiotherapy for cancer of supraglottic larynx. Tarnawski R, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15; 38(5):1007–11

Magnetic resonance imaging in the treatment planning of radiation therapy in carcinoma of the cervix treated with the four-field pelvic technique. Thomas L, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):827–32

"Permanent iodine-125 (I-125) boost after teletherapy in primary cancers of the nasopharynx is safe and highly effective: long-term results" [letter] Vikram B. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):1140

A quantitative assessment of standard vs. customized midline shield construction for invasive cervical carcinoma. Wolfson AH, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):237–42

Reevaluation of postoperative radiotherapy for thoracic esophageal carcinoma. Yamamoto M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):75–8

Impact of radiation therapy fraction size on local control of early glottic carcinoma. Yu E, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):587–91

Predictive value of potential doubling time in head and neck cancer patients treated by conventional radiotherapy. Zackrisson B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):677–83

Primary chemoradiation therapy with fluorouracil and cisplatin for cancer of the anus: results in 35 consecutive patients. Doci R, et al. **J Clin Oncol** 1996 Dec;14(12):3121–5

Chemotherapy as an adjunct to radiation in the treatment of squamous cell carcinoma of the head and neck: results of the Yale Mitomycin Randomized Trials. Haffty BG, et al. **J Clin Oncol** 1997 Jan;15(1):268–76

Definitive radiotherapy for T3 squamous cell carcinoma of the glottic larynx. Mendenhall WM, et al. **J Clin Oncol** 1997 Jun;15(6):2394–402

Markers of radioresistance in squamous cell carcinomas of the head and neck: a clinicopathologic and immunohistochemical study. Raybaud-Diogène H, et al. **J Clin Oncol** 1997 Mar;15(3):1030–8

Endosteal implants in the irradiated lower jaw. Watzinger F, et al. **J Craniomaxillofac Surg** 1996 Aug;24(4):237–44

Parotid sparing study in head and neck cancer patients receiving bilateral radiation therapy: one-year results. Ship JA, et al. **J Dent Res** 1997 Mar;76(3):807–13

Management of carcinoma anal canal with combination chemotherapy and concurrent radiotherapy. Mishra RC, et al. **J Indian Med Assoc** 1996 Feb;94(2):53–4, 57

Intracavitary irradiation of nasopharyngeal carcinoma using Ir-192 in Foley's catheter. Pattaranutaporn P, et al. **J Med Assoc Thai** 1996 Jan;79(1):31–5

Adjuvant surgery after radiotherapy. Eifel PJ. **J Natl Cancer Inst Monogr** 1996;(21):85–8 (28 ref.)

Is there a radiobiologic basis for improving the treatment of advanced stage cervical cancer? Lindegaard JC, et al. **J Natl Cancer Inst Monogr** 1996;(21):105–12 (91 ref.)

Improvement of radiation treatment planning in squamous-cell head and neck cancer by immuno-SPECT. Adamietz IA, et al. **J Nucl Med** 1996 Dec;37(12):1942–6

Radionuclide therapy of skin cancers and Bowen's disease using a specially designed skin patch. Lee JD, et al. **J Nucl Med** 1997 May;38(5):697–702

Preoperative simultaneous cisplatin- or carboplatin-based chemotherapy and radiotherapy for squamous cell carcinoma of the oral cavity. Kirita T, et al. **J Surg Oncol** 1996 Dec;63(4):240–8

Phase II study of chemoradiotherapy for advanced squamous cell carcinoma of the thoracic esophagus: nine Japanese institutions trial. Ishida K, et al. **Jpn J Clin Oncol** 1996 Oct;26(5):310–5

Epidermoid anal cancer: results from the UKCCCR randomised trial of radiotherapy alone versus radiotherapy, 5-fluorouracil, and mitomycin. UKCCCR Anal Cancer Trial Working Party. UK Co-ordinating Committee on Cancer Research [see comments] **Lancet** 1996 Oct 19;

348(9034):1049–54. Comment in: Lancet 1997 Jan 18;349(9046):205–6.

Combined radiotherapy and chemotherapy for anal cancer. EORTC Radiotherapy and Gastrointestinal Cooperative Groups [letter; comment] Bosset JF, et al. **Lancet** 1997 Jan 18;349(9046):205–6. Comment on: Lancet 1996 Oct 19;348(9034):1049–54.

The effect of overall treatment time of radiation therapy on local control of T1–stage squamous cell carcinoma of the glottis. Hayakawa K, et al. **Laryngoscope** 1996 Dec;106(12 Pt 1):1545–7

A comparative study of preoperative B–V–M–M chemotherapy and irradiation in advanced squamous cell cancer of the oral cavity. Olasz L, et al. **Neoplasma** 1996; 43(1):51–6

Combined chemotherapy and radiotherapy for esophageal carcinoma in a hemodialyzed patient. Long–term survival. Rebibou JM, et al. **Nephron** 1996;74(3):611–2

Esophageal intramural pseudodiverticulosis with esophageal cancer improved by target rotation irradiation: case report. Naoi Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul;57(8):526–7

p53 mediated sensitization of squamous cell carcinoma of the head and neck to radiotherapy. Pirollo KF, et al. **Oncogene** 1997 Apr 10;14(14):1735–46

p53 over–expression in laryngeal carcinoma is not predictive of response to radiotherapy. Tan LK, et al. **Oral Oncol** 1997 May;33(3):177–81

Intensive chemotherapy using cisplatin and fluorouracil followed by radiotherapy in advanced head and neck cancer. Zidan J, et al. **Oral Oncol** 1997 Mar;33(2):129–35

Radiotherapy for carcinoma of the supraglottis. Mendenhall WM, et al. **Otolaryngol Clin North Am** 1997 Feb; 30(1):145–61 (35 ref.)

Speech outcomes after laryngeal cancer management. Simpson CB, et al. **Otolaryngol Clin North Am** 1997 Apr; 30(2):189–205 (71 ref.)

Pharmacokinetics and radiosensitizing effect of PR–350. Hirokawa K, et al. **Radiat Med** 1997 Jan–Feb;15(1):45–9

Radiotherapy of T1 and T2 glottic cancer: analysis of anterior commissure involvement. Hirota S, et al. **Radiat Med** 1996 Nov–Dec;14(6):297–302

Radiosensitizing effect of nicotinamide and carbogen combined in fractionated pions or x–rays in SCCVII tumors. Ohizumi Y, et al. **Radiat Med** 1995 Nov–Dec; 13(6):291–5

Radiotherapy under informed consent report of a long–term survivor of advanced esophageal cancer. Okazaki A, et al. **Radiat Med** 1996 Mar–Apr;14(2):103–6

Enhancement of radiation–induced regrowth delay by gemcitabine in a human tumor xenograft model. Joschko MA, et al. **Radiat Oncol Investig** 1997;5(2):62–71

Locally advanced head and neck cancer: combined chemotherapy and radical radiation therapy for organ and function preservation (interim report). Cheung AY, et al. **Radiology** 1997 Jul;204(1):207–10

Anemia is associated with lower local–regional control and survival after radiation therapy for head and neck cancer: a prospective study. Dubray B, et al. **Radiology** 1996 Nov; 201(2):553–8

Repair capacity and kinetics for human mucosa and epithelial tumors in the head and neck: clinical data on the effect of changing the time interval between multiple fractions per day in radiotherapy. Bentzen SM, et al. **Radiother Oncol** 1996 Feb;38(2):89–101 (40 ref.)

Synergistic cytotoxic effects of ether phospholipid analogues and ionizing radiation in human carcinoma cells. Berkovic D, et al. **Radiother Oncol** 1997 Jun;43(3):293–301

Serial cytological assay of micronucleus induction: a new tool to predict human cancer radiosensitivity. Bhattathiri VN, et al. **Radiother Oncol** 1996 Nov;41(2):139–42

Prognostic factors of local control after radiotherapy in T1 glottic and supraglottic carcinoma of the larynx. Carl J, et al. **Radiother Oncol** 1996 Jun;39(3):229–33

European historical note of intraoperative radiation therapy (IORT): a case report from 1905 [letter] Casas F, et al. **Radiother Oncol** 1997 Jun;43(3):323–4

Factors influencing outcome following radio–chemotherapy for oesophageal cancer. The Trans Tasman Radiation Oncology Group (TROG) [see comments] Denham JW, et al. **Radiother Oncol** 1996 Jul;40(1):31–43. Comment in: Radiother Oncol 1997 Jan;42(1):91–2.

Adverse effect of treatment gaps in the outcome of radiotherapy for laryngeal cancer. Duncan W, et al. **Radiother Oncol** 1996 Dec;41(3):203–7

Quality assurance of interstitial brachytherapy technique in lip cancer: comparison of actual performance with the Paris System recommendations. Farrús B, et al. **Radiother Oncol** 1996 Feb;38(2):145–51

Carcinoma of the cervical stump: retrospective analysis of 77 cases. Hannoun–Lévi JM, et al. **Radiother Oncol** 1997 May;43(2):147–53

Importance of overall treatment time for the outcome of radiotherapy of advanced head and neck carcinoma: dependency on tumor differentiation. Hansen O, et al. **Radiother Oncol** 1997 Apr;43(1):47–51

A randomised trial of accelerated versus conventional radiotherapy in head and neck cancer. Jackson SM, et al. **Radiother Oncol** 1997 Apr;43(1):39–46

Radiation therapy alone or with concurrent low–dose daily either cisplatin or carboplatin in locally advanced unresectable squamous cell carcinoma of the head and neck: a prospective randomized trial. Jeremic B, et al. **Radiother Oncol** 1997 Apr;43(1):29–37

Radiotherapy for primary squamous cell carcinoma of the trachea. Jeremic B, et al. **Radiother Oncol** 1996 Nov; 41(2):135–8

Randomized clinical trial on accelerated 7 days per week fractionation in radiotherapy for head and neck cancer. Preliminary report on acute toxicity. Maciejewski B, et al. **Radiother Oncol** 1996 Aug;40(2):137–45

Pilot study of intraoperative high dose rate brachytherapy for head and neck cancer. Nag S, et al. **Radiother Oncol** 1996 Nov;41(2):125–30

Radiation therapy for T1,2 glottic carcinoma: impact of overall treatment time on local control. Nishimura Y, et al. **Radiother Oncol** 1996 Sep;40(3):225–32

Pretreatment oxygenation predicts radiation response in advanced squamous cell carcinoma of the head and neck. Nordsmark M, et al. **Radiother Oncol** 1996 Oct;41(1):31–9

Late radiotherapeutic morbidity in patients with carcinoma of the uterine cervix: the application of the French–Italian glossary. Rodrigus P, et al. **Radiother Oncol** 1996 Aug; 40(2):153–7

Radical external beam radiotherapy for 333 squamous carcinomas of the oral cavity––evaluation of late morbidity and a watch policy for the clinically negative neck. Turner SL, et al. **Radiother Oncol** 1996 Oct;41(1):21–9

A pilot trial of paclitaxel, carboplatin, and concurrent radiotherapy for unresectable squamous cell carcinoma of the head and neck. Conley B, et al. **Semin Oncol** 1997 Feb; 24(1 Suppl 2):S2–78–S2–80

Paclitaxel in simultaneous radiochemotherapy of head and neck cancer: preclinical and clinical results. Hoffmann W, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2–72–S2–77

Applications of brachytherapy in head and neck cancer. Harrison LB. **Semin Surg Oncol** 1997 May–Jun; 13(3):177–84 (25 ref.)

Brachytherapy for cancer of the female urethra. Micaily B, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):208–14 (29 ref.)

Management for stage II glottic carcinoma: radiation therapy or surgery. Chatani M, et al. **Strahlenther Onkol** 1996 Dec; 172(12):664–8

High–dose rate intracavitary irradiation for carcinoma of the uterine cervix. The adverse effect of treatment prolongation. Chatani M, et al. **Strahlenther Onkol** 1997 Jul;173(7):379–84

Squamous cell carcinoma of the anal margin treated with radiotherapy. Mendenhall WM, et al. **Surg Oncol** 1996 Feb; 5(1):29–35 (20 ref.)

[Psychiatric disorders and somatic diseases (letter; comment)] Bremer GJ. **Ned Tijdschr Geneeskd** 1997 Mar 29; 141(13):650. Comment on: Ned Tijdschr Geneeskd 1997 Feb 1;141(5):247–9. **(Dut)**

[Predictive biological factors of response to radiotherapy and chemotherapy in carcinoma of the upper respiratory and digestive tracts] Bourhis J, et al. **Bull Cancer Radiother** 1996;83(4):308–13 (55 ref.) **(Fre)**

[Exclusive radiotherapy in 250 cases of stage I–II cancers of the supraglottic larynx] Glinski B, et al. **Bull Cancer Radiother** 1996;83(3):177–9 (Eng. Abstr.) **(Fre)**

[Hyperfractionated and accelerated radiotherapy in head and neck cancers: results of the EORTC trials and impact on clinical practice] Horiot JC, et al. **Bull Cancer Radiother** 1996;83(4):314–20 **(Fre)**

[Apropos of failure of exclusive high dose rate interstitial brachytherapy in squamous cell carcinoma of the mobile tongue (letter)] Mazeron JJ, et al. **Bull Cancer Radiother** 1996;83(3):172–3 **(Fre)**

[Hyperfractionated reirradiation after salvage surgery in cervico–facial carcinoma. Result of a pilot study in 14 patients] Benchalal M, et al. **Cancer Radiother** 1997; 1(1):68–73 (53 ref.) (Eng. Abstr.) **(Fre)**

[Treatment of eyelid carcinomas of 2 cmm or less by contact radiotherapy] Buatois F, et al. **J Fr Ophtalmol** 1996; 19(6–7):405–9 (Eng. Abstr.) **(Fre)**

[Peroperative radiotherapy in the conservative treatment of infiltrating bladder cancers] Hulewicz G, et al. **Prog Urol** 1997 Apr;7(2):229–34 (Eng. Abstr.) **(Fre)**

[Accelerated hyperfractionated simultaneous radiochemotherapy in advanced head–neck carcinomas in comparison: split course and concomitant boost concept] Dietz A, et al. **Laryngorhinootologie** 1996 Dec; 75(12):745–53 (Eng. Abstr.) **(Ger)**

[Tissue oxygen partial pressure in human head–neck carcinomas during primary radio–chemotherapy] Jund R, et al. **Laryngorhinootologie** 1996 Jan;75(1):43–7 (Eng. Abstr.) **(Ger)**

[Intra–arterial cisplatin and sequential radiotherapy. Long–term follow–up] Scheel JV, et al. **Laryngorhinootologie** 1996 Jan;75(1):38–42 (Eng. Abstr.) **(Ger)**

[Outcome of CHART radiotherapy in squamous cell carcinoma of the head and neck and in non–small cell bronchial carcinoma] Baumann M, et al. **Strahlenther Onkol** 1997 Jun;173(6):341–3 **(Ger)**

[Increased radiosensitivity in demonstrated p53 mutations in oral cavity carcinoma cell lines] Budach W. **Strahlenther Onkol** 1997 May;173(5):290–2 **(Ger)**

[Comparison of induction chemotherapy before radiotherapy and radiotherapy only in patients with locally advanced squamous cell carcinoma of the lung] Heilmann HP. **Strahlenther Onkol** 1997 Jun;173(6):340–1 **(Ger)**

[Therapy pf cervical lymph node metastases of unknown primary tumor] Kirschner MJ, et al. **Strahlenther Onkol** 1997 Jul;173(7):362–8 (Eng. Abstr.) **(Ger)**

[Primary radiotherapy of laryngeal carcinoma. An analysis of the therapeutic results and of the the relapse behavior in 283 patients] Rübe C, et al. **Strahlenther Onkol** 1997 Feb;173(2):83–90 (Eng. Abstr.) **(Ger)**

[The results of primary radiotherapy in vaginal carcinoma] Schäfer U, et al. **Strahlenther Onkol** 1997 May; 173(5):272–80 (Eng. Abstr.) **(Ger)**

[Downstaging of esophageal carcinoma after preoperative radio– and chemotherapy] Staar S. **Strahlenther Onkol** 1996 Dec;172(12):693–5 **(Ger)**

[Outcome of simultaneous radiochemotherapy of anal carcinoma] Fraunholz IB, et al. **Zentralbl Chir** 1997; 122(1):39–43 (Eng. Abstr.) **(Ger)**

[Radical radiotherapy in T2N0 glottic laryngeal carcinomas] Bonetti B, et al. **Acta Otorhinolaryngol Ital** 1996 Oct; 16(5):428–32 (Eng. Abstr.) **(Ita)**

[External radiotherapy in early stage squamous cell carcinoma of the supraglottic larynx. Report of 28 cases] Caliceti U, et al. **Acta Otorhinolaryngol Ital** 1996 Feb; 16(1):35–9 (28 ref.) (Eng. Abstr.) **(Ita)**

[Carcinoma of the penis: radiotherapy] Bertoni F. **Arch Ital Urol Androl** 1996 Jun;68(3):173–6; discussion 177–82 (Eng. Abstr.) **(Ita)**

[The anal canal: 2 cycles of radiochemotherapy and boost brachytherapy] Valentini V, et al. **Radiol Med (Torino)** 1997 Apr;93(4):451–6 (38 ref.) (Eng. Abstr.) **(Ita)**

[Trial of radiation and cisplatin, carboplatin combination chemotherapy for advanced cancer (W–platinum chemoradiotherapy] Kato M, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):723–7 (Eng. Abstr.) **(Jpn)**

[A case of advanced esophageal cancer successfully treated by concurrent use of radiotherapy and low–dose CDDP and continuous infusion of 5–FU] Miyaji N, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):601–4 (Eng. Abstr.) **(Jpn)**

[Long–term results of short–course preoperative radiotherapy and radical cystectomy for bladder cancer] Hirabayashi N. **Nippon Hinyokika Gakkai Zasshi** 1997 May; 88(5):528–34 (Eng. Abstr.) **(Jpn)**

[Tumor seeding to the neck through percutaneous applicators of interstitial high–dose–rate brachytherapy for cancer of the tongue: a case report] Nishimura T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):281–2 (Eng. Abstr.) **(Jpn)**

[Endobronchial brachytherapy with high dose rate 192Ir afterloading technique using a new applicator] Nomoto Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan; 56(1):42–7 (Eng. Abstr.) **(Jpn)**

[Radiation therapy for squamous cell carcinoma of uterine cervix using high dose rate intracavitary irradiation] Ogawa Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25;54(12):1155–64 (Eng. Abstr.) **(Jpn)**

[Studies on serum protein fractions of patients with maxillary sinus cancer undergoing a combination of radiotherapy and chemotherapy: II. Relationship between changes in serum protein fractions and prognosis] Onizuka K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):657–63 (Eng. Abstr.) **(Jpn)**

[Radiation therapy for uterine cervix cancer: importance of evaluation of pre–treatment tumor size with MR imaging] Sasaoka M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul;57(8):505–9 (Eng. Abstr.) **(Jpn)**

[Thymic carcinoma effectively treated by preoperative concurrent chemo–radiotherapy] Akiyama Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Sep; 34(9):1030–4 (Eng. Abstr.) **(Jpn)**

[Evaluation of SCC antigen in patients with advanced cervix cancer treated with radiation] Roszak A, et al. **Ginekol Pol** 1996 Sep;67(9):457–9 (Eng. Abstr.) **(Pol)**

[The evaluation of radiotherapy in the treatment of epidermoid carcinoma of the oral cavity] Kowalik S, et al. **Otolaryngol Pol** 1996;50(1):46–51 (27 ref.) (Eng. Abstr.) **(Pol)**

[The influence of the Co–60 therapy on the hearing in laryngeal cancers] Namysłowski G, et al. **Otolaryngol Pol** 1996;50(3):286–90 (Eng. Abstr.) **(Pol)**

[Prognostic factors in radiotherapy of supraglottic cancer] Składowski K, et al. **Otolaryngol Pol** 1996;50(6):579–86 (Eng. Abstr.) **(Pol)**

[Radiation therapy in glottic laryngeal carcinoma stage. I. Results and analysis of prognostic factors] Skołyszewski J, et al. **Otolaryngol Pol** 1996;50(3):243–7 (Eng. Abstr.) **(Pol)**

[A retrospective assessment of spinocellular carcinomas of the lip treated by roentgenotherapy (corrected and republished article originally printed in Acta Med Port 1997 Jan;10(1):47–51)] Borrego M, et al. **Acta Med Port** 1997 May;10(5):367–71 (Eng. Abstr.) **(Por)**

[A retrospective assessment of spinocellular carcinomas of the lip treated by roentgenotherapy (corrected and republished in Acta Med Port 1997 May;10(5):367–71)] Borrego M, et al. **Acta Med Port** 1997 Jan;10(1):47–51 (Eng. Abstr.) **(Por)**

[Sequential chemotherapy and radiotherapy in the treatment of locally advanced carcinoma of the head and neck] Fonseca E, et al. **Acta Otorrinolaringol Esp** 1997 Mar;

48(2):127–32 (Eng. Abstr.) **(Spa)**

[High-dose endobronchial brachytherapy in malignant tumors of the lung] Escobar Sacristán J, et al. **Arch Bronconeumol** 1997 Jun;33(6):278–83 (Eng. Abstr.) **(Spa)**

[A combination of radiotherapy and chemotherapy with platidiam and fluorouracil in patients with head and neck cancer] Shparyk IaV, et al. **Lik Sprava** 1996 Mar–Apr; (3–4):153–7 **(Ukr)**

SECONDARY

Fine needle aspiration cytodiagnosis of primary and metastatic squamous cell carcinoma of the breast. Gupta RK. **Acta Cytol** 1997 May–Jun;41(3):692–6

The evaluation and treatment of the neck in carcinoma of the oral cavity. Atula T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:223–5

Bronchopulmonary changes after laryngeal cancer treatment—differentiation between metastatic laryngeal and second primary cancer. Rott T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:167–9

Metastasis of squamous cell carcinoma of the conjunctiva: case report and review of the literature. Bhattacharyya N, et al. **Am J Otolaryngol** 1997 May–Jun;18(3):217–9 (6 ref.)

The extent of neck disease after regional failure during observation of the N0 neck. Andersen PE, et al. **Am J Surg** 1996 Dec;172(6):689–91

Supraspinal accessory lymph node metastases in supraomohyoid neck dissection. Kraus DH, et al. **Am J Surg** 1996 Dec;172(6):646–9

Supraomohyoid neck dissection. Spiro RH, et al. **Am J Surg** 1996 Dec;172(6):650–3

Metastatic head and neck cancer to the percutaneous endoscopic gastrostomy exit site: a case report and review of the literature. Schneider AM, et al. **Am Surg** 1997 Jun; 63(6):481–6 (11 ref.)

An audit of one surgeon's experience of oral squamous cell carcinoma using a computerised malignancy database [letter; comment] Watkinson JC. **Ann R Coll Surg Engl** 1996 Sep;78(5):479–80. Comment on: Ann R Coll Surg Engl 1996 Mar;78(2):154.

Increased NM23: MTS1 ratio inversely correlated with metastasis behaviour in human lung squamous cell carcinoma. Hsu JW, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):407–11

Secondary squamous cell carcinoma of the orbit. Johnson TE, et al. **Arch Ophthalmol** 1997 Jan;115(1):75–8

Inhibition by streptococcal immunopotentiator OK432 of lymph-node metastasis in hamster cheek-pouch carcinoma with enhancement of tumour necrosis factor-alpha and interleukin-6 in serum. Nakajima J, et al. **Arch Oral Biol** 1996 May;41(5):513–6

An unusual metastasis to the thumb in a laryngectomized tracheoesophageal speaker. Lewin JS, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):1007–9

Massive groin node metastasis as presenting sign of squamous cell carcinoma of the fallopian tube. Cormio G, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):102–3

Port-site recurrence after thoracoscopic resection of oesophageal cancer. Dixit AS, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):148–9

Extranodal connective tissue invasion and the expression of desmosomal glycoprotein 1 in squamous cell carcinoma of the oesophagus. Natsugoe S, et al. **Br J Cancer** 1997; 75(6):892–7

Orbital metastasis from carcinoma of cervix [letter] Lee HM, et al. **Br J Ophthalmol** 1997 Apr;81(4):330–1

Testicular teratoma with malignant transformation, presenting as squamous cell carcinoma with metastatic localization in the penile corpus cavernosum. Cimic J, et al. **Br J Urol** 1997 Jan;79(1):142–3

Ocular metastasis as the initial presentation of esophageal carcinoma. McDonald JW, et al. **Can J Ophthalmol** 1997 Feb;32(1):50–2

Human squamous carcinoma cell invasion in organ-cultured skin. Varani J, et al. **Cancer Lett** 1997 Jan 1;111(1–2):51–7

HLA class I-restricted and tumor-specific cytotoxic T lymphocytes from metastatic lymph nodes of esophageal cancers. Toh U, et al. **Cell Immunol** 1997 May 1; 177(2):137–43

A 60-year-old man with a malignant tumor of the upper airway and unexplained respiratory failure. Ewald FW Jr, et al. **Chest** 1997 Jan;111(1):239–41

Images in cardiovascular medicine: complete heart block. Reisinger J, et al. **Circulation** 1997 Aug 19;96(4):1364

Metastatic variants derived following in vivo tumor progression of an in vitro transformed squamous cell carcinoma line acquire a differential growth advantage requiring tumor-host interaction. Chen Z, et al. **Clin Exp Metastasis** 1997 Sep;15(5):527–37

Metastatic thymic carcinoma demonstrated by radionuclide bone scan. Becker CP, et al. **Clin Nucl Med** 1996 Jul; 21(7):583–4

Cutaneous squamous cell carcinoma metastatic to the parotid gland in a transplant patient. Christiansen TN, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):561–3 (23 ref.)

Squamous cell carcinoma of the lung metastatic to the pancreas: diagnosis by fine-needle aspiration biopsy [letter] Mockli GC, et al. **Diagn Cytopathol** 1997 Mar;16(3):287–8

Extent of resection and lymphadenectomy in early squamous cell esophageal cancer. Nabeya K, et al. **Dis Esophagus** 1997 Jul;10(3):159–61 (28 ref.)

Ultrasonographic detection of lymph-node metastases in superficial carcinoma of the esophagus. Natsugoe S, et al. **Endoscopy** 1996 Oct;28(8):674–9

Detection of MET oncogene/hepatocyte growth factor receptor in lymph node metastases from head and neck squamous cell carcinomas. Galeazzi E, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S138–43

Intramedullary spinal cord metastasis from carcinoma of the lung: detection by positron emission tomography [letter] Jayasundera MV, et al. **Eur J Cancer** 1997 Mar;33(3):508–9

Discordance of p53 status in matched primary tumours and metastases in head and neck squamous cell carcinoma patients. Kropveld A, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):388–93

Autopsy findings in patients with head and neck squamous cell cancer and their therapeutic relevance. Slootweg PJ, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):413–5

Rapidly progressive squamous cell carcinoma of the cervix in a patient with acquired immunodeficiency syndrome: case report. Saccucci P, et al. **Eur J Gynaecol Oncol** 1996; 17(4):306–8

Solitary breast metastasis as the first sign of a squamous cell carcinoma of the cervix: imaging findings. Kelkar PS, et al. **Eur J Radiol** 1997 Feb;24(2):159–62

Bilateral secondary renal neoplasm mimicking renal abscesses. de La Taille A, et al. **Eur Urol** 1997;31(2):249–50

Spontaneous metastasizing squamous cell carcinoma of the oesophagus in a Sprague Dawley rat. Deschl U, et al. **Exp Toxicol Pathol** 1997 Feb;49(1–2):123–7 (10 ref.)

Carcinoma of the uterine cervix with myocardial metastasis. Ando K, et al. **Gynecol Oncol** 1997 Apr;65(1):169–72

An umbilical metastasis after laparoscopy for squamous cell carcinoma of the cervix. Naumann RW, et al. **Gynecol Oncol** 1997 Mar;64(3):507–9

Cervical carcinoma metastatic to the brain. Robinson JB, et al. **Gynecol Oncol** 1997 Aug;66(2):324–6 (32 ref.)

Identification of high-risk groups among node-positive patients with stage IB and IIA cervical carcinoma. Samlal RA, et al. **Gynecol Oncol** 1997 Mar;64(3):463–7 (31 ref.)

Development of distant metastasis after treatment of advanced-stage head and neck cancer. Alvi A, et al. **Head Neck** 1997 Sep;19(6):500–5

Frequency and therapeutic implications of "skip metastases" in the neck from squamous carcinoma of the oral tongue [see comments] Byers RM, et al. **Head Neck** 1997 Jan; 19(1):14–9. Comment in: Head Neck 1997 Aug;19(5):445–6.

Depth of invasion as a predictive factor for cervical lymph node metastasis in tongue carcinoma. Fukano H, et al. **Head Neck** 1997 May;19(3):205–10 (14 ref.)

Preservation of function by radiotherapy of small primary carcinomas preceded by neck dissection for extensive nodal metastases of the head and neck. Verschuur HP, et al. **Head Neck** 1996 May–Jun;18(3):277–82

Unsuspected carcinoma of the gall bladder: case report of trocar-site metastasis following laparoscopic cholecystectomy. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):990–3

Brain metastasis as first presentation on carcinoma of the esophagus—a case report. Biswal BM, et al. **Indian J Med Sci** 1995 Sep;49(9):210–1

Possible contribution of active MMP2 to lymph-node metastasis and secreted cathepsin L to bone invasion of newly established human oral-squamous-cancer cell lines. Kawamata H, et al. **Int J Cancer** 1997 Jan 6;70(1):120–7

Ovarian metastasis from cervical carcinoma. Wu HS, et al. **Int J Gynaecol Obstet** 1997 May;57(2):173–8

Clinical and histopathologic characteristics of tongue and gingiva carcinomas with occult and clinically evident cervical lymph-node metastasis. Osaki T, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):274–8

Pathologic fracture of the mandible caused by intraosseous metastasis of oesophageal squamous cell carcinoma: a case report. Plath T, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):282–4

Detailed topography of cervical lymph-note metastases from oral squamous cell carcinoma. Woolgar JA. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):3–9

Enhanced control by radiotherapy of cervical lymph node metastases arising from nasopharyngeal carcinoma compared with nodal metastases from other head and neck squamous cell carcinomas. Chow E, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):149–54

Metastatic carcinoma in the cervical lymph nodes from an unknown primary site: results of bilateral neck plus mucosal irradiation vs. ipsilateral neck irradiation. Reddy SP, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):797–802

Keratinization and necrosis. Morphologic aspects of lymphatic metastases in ultrasound. Mäurer J, et al. **Invest Radiol** 1996 Sep;31(9):545–9

Prognostic value of thoracic recurrent nerve nodal involvement in esophageal squamous cell carcinoma. Malassagne B, et al. **J Am Coll Surg** 1997 Sep;185(3):244–9

Chest wall metastasis after percutaneous fine-needle aspiration biopsy. Sing RF, et al. **J Am Osteopath Assoc** 1996 Sep;96(9):546–7

Color Doppler findings of secondary carcinoma of the tunica vaginalis testis. Draghi F, et al. **J Clin Ultrasound** 1996 Mar–Apr;24(3):141–4

Squamous cell carcinoma of the renal pelvis with metastasis in a dog. Dagli ML, et al. **J Comp Pathol** 1997 May; 116(4):397–402

CT surveillance of the thorax in patients with squamous cell carcinoma of the head and neck: a preliminary experience. Mercader VP, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):412–7

Detection of latero-cervical metastases from oral cancer. Maremonti P, et al. **J Craniomaxillofac Surg** 1997 Jun; 25(3):149–52

Metastases to the hand from carcinoma of the lower alveolus. Viswanathan PN, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):544–6

Phase II trial of interferon-alpha in locally recurrent or metastatic squamous cell carcinoma of the head and neck: immunological and clinical correlates. Vlock DR, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):433–42

Multiple cutaneous metastases from laryngeal carcinoma. Bhandarkar P, et al. **J Laryngol Otol** 1997 Jul;111(7):654–5

Simultaneous occurrence of metastatic tonsillar squamous cell carcinoma and angioimmunoblastic T-cell lymphoma in a cervical lymph node. Habermann W, et al. **J Laryngol Otol** 1997 Jun;111(6):580–2

Spontaneous internal jugular vein thrombosis and recurrent laryngeal nerve palsy: a rare simultaneous presentation of an occult malignant neoplasm. Kalan A, et al. **J Laryngol Otol** 1996 Dec;110(12):1166–8

Distant metastases in terminal head and neck cancer patients. Talmi YP, et al. **J Laryngol Otol** 1997 May;111(5):454–8

Acrokeratosis paraneoplastica: Bazex syndrome. Wareing MJ, et al. **J Laryngol Otol** 1996 Sep;110(9):899–900

An unusual case of laryngeal carcinoma metastasizing to the small intestine. Yoshihara T, et al. **J Laryngol Otol** 1997 Jun;111(6):575–7 (15 ref.)

Iron oxide-enhanced MR lymphography: the evaluation of cervical lymph node metastases in head and neck cancer. Anzai Y, et al. **J Magn Reson Imaging** 1997 Jan–Feb; 7(1):75–81 (41 ref.)

Symmetrical cerebral metastasis presenting with bilateral upper extremity weakness. Wilck EJ, et al. **J Neuroimaging** 1996 Oct;6(4):254–6

Effects of bisphosphonate (pamidronate) on bone resorption resulting from metastasis of a squamous cell carcinoma: report of an autopsy case and evaluation of bone resorbing activity in an experimental animal model. Hiraga T, et al. **J Oral Maxillofac Surg** 1996 Nov;54(11):1327–33

Esophageal carcinoma metastatic centrally to the mandible: a case report with implication of cell proliferating marker Ki-67. Koyama T, et al. **J Oral Maxillofac Surg** 1997 Jun; 55(6):640–5 (16 ref.)

Cutaneous lymphangitis carcinomatosa: a rare primary manifestation of malignancy. Keohane SG, et al. **J R Soc Med** 1996 Oct;89(10):582–3

Carcinoma of the tongue: pathological considerations in management of the neck. Woolgar JA. **J R Soc Med** 1996 Nov;89(11):611–5

Proliferative activity of esophageal carcinomas and their lymph node metastases: comparison using argyrophilic nucleolar organizer region staining. Yano K, et al. **J Surg Oncol** 1997 Aug;65(4):274–9

Metastases from metastatis: a careful examination [see comments] Langenfeld J, et al. **N J Med** 1996 May; 93(5):37–40 (18 ref.). Comment in: N J Med 1996 Jul;93(7):10.

MRI of nasopharyngeal carcinoma metastatic to the cerebellopontine angle. Gouliamos AD, et al. **Neuroradiology** 1996 May;38(4):375–7

Unusual complications at iliac crest bone graft donor site: experience with two cases. Porchet F, et al. **Neurosurgery** 1996 Oct;39(4):856–9

Perineural spread of cutaneous squamous cell carcinoma via the orbit. Clinical features and outcome in 21 cases. McNab AA, et al. **Ophthalmology** 1997 Sep;104(9):1457–62

Identification of seven differentially displayed transcripts in human primary and matched metastatic head and neck squamous cell carcinoma cell lines: implications in metastasis and/or radiation response. Patel S, et al. **Oral Oncol** 1997 May;33(3):197–203

Correlation of lectin binding with lymph node metastasis in oral cancers. Remani P, et al. **Oral Oncol** 1997 Jan; 33(1):19–22

Laryngeal carcinoma nodal metastases and their management. Schuller DE, et al. **Otolaryngol Clin North Am** 1997 Apr;30(2):167–77 (34 ref.)

Squamous cell carcinoma of the pancreas with gastric metastasis. Case report. Bringel RW, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):195–7

Carinal resection and reconstruction for recurrent lung cancer. Kawahara K, et al. **Surg Today** 1997;27(2):163–5

Small intestinal metastasis from esophageal carcinoma associated with small intestinal obstruction: report of a case. Yamada T, et al. **Surg Today** 1996;26(10):800–2

An updated report of a case of lung cancer resected using cardiopulmonary bypass. Horita K, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):100–1

Brain metastases from cervical carcinoma. Cormio G, et al. **Tumori** 1996 Jul–Aug;82(4):394–6

[Ovarian metastasis in uterine cervical cancer: analysis of 17 cases] Ma S, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 May;31(5):305–7 (Eng. Abstr.) **(Chi)**

[Pseudocystic metastases of carcinoma of the uterine cervix mimicking polycystic liver disease] Estermann F, et al. **Gastroenterol Clin Biol** 1996;20(12):1125–8 (Eng. Abstr.) **(Fre)**

[Colonic metastases from carcinoma of the piriform sinus (letter)] Petit R, et al. **Gastroenterol Clin Biol** 1995 Dec; 19(12):1074–5 **(Fre)**

[Gastric metastasis of epidermoid cancer of the trachea (letter)] Wohlschies E, et al. **Rev Pneumol Clin** 1996; 52(4):265–6 **(Fre)**

[Ophthalmoplegia. Ophthalmoplegia in sphenoid sinus metastasis of a laryngeal carcinoma] Keiner S, et al. **HNO** 1997 Apr;45(4):238–9 **(Ger)**

[Intramedullary spinal metastasis of bronchial carcinoma coincident with intramedullary spinal angioma] Dietl RH, et al. **Zentralbl Neurochir** 1996;57(1):25–9 (Eng. Abstr.) **(Ger)**

[Treatment of lymphatic metastasis of squamous cell carcinoma of the penis: experience at the National Tumor Institute of Milan] Pizzocaro G, et al. **Arch Ital Urol Androl** 1996 Jun;68(3):169–72 (Eng. Abstr.) **(Ita)**

[Muscle metastasis in a patient with epidermoid carcinoma of the lung] Romano L, et al. **Radiol Med (Torino)** 1997 Mar;93(3):294–5 (11 ref.) **(Ita)**

[Metastatic tumor to the penis from lung and pancreas cancer: report of two cases] Danno S, et al. **Hinyokika Kiyo** 1997 Jan;43(1):61–3 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Metastatic renal tumor originating from esophageal cancer: report of 2 cases] Miyoshi Y, et al. **Hinyokika Kiyo** 1997 May;43(5):347–50 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Myocardial metastasis in the right ventricle from uterine cervical carcinoma with high 67Ga-citrate accumulation: a case report] Ando K, et al. **Kaku Igaku** 1996 Sep; 33(9):1011–4 (Eng. Abstr.) **(Jpn)**

[Chemotherapy with low-dose consecutive cisplatin (CDDP) for patients with recurrent and distant metastasis of head and neck cancer] Nishino H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Sep;99(9):1218–22 (Eng. Abstr.) **(Jpn)**

[A case of survival for 50 months after resection of cerebellar metastasis of squamous cell lung carcinoma] Nomori H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug; 44(8):1172–4 (Eng. Abstr.) **(Jpn)**

[Squamous cell carcinoma of unknown origin affecting mediastinal lymph nodes] Yodonawa S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1364–8 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Tumoral collision: cancer metastases within a second neoplasm] Artazkoz del Toro JJ, et al. **An Otorrinolaringol Ibero Am** 1996;23(5):525–32 (Eng. Abstr.) **(Spa)**

[Epidermoid carcinoma with extensive bone metastasis and normal scintigraphy (letter)] Haro M, et al. **Arch Bronconeumol** 1997 Mar;33(3):158 **(Spa)**

[Epidermoid carcinoma originating from a mature cystic ovarian teratoma. Report of two cases and review of the literature] Pérez Sanchez VM, et al. **Ginecol Obstet Mex** 1997 Jul;65:296–9 (11 ref.) (Eng. Abstr.) **(Spa)**

SECRETION

Malignant hypercalcemia induced by a parathyroid hormone-related protein secreted by a cutaneous squamous cell carcinoma [letter] Reynaud-Mendel B, et al. **Arch Dermatol** 1997 Jan;133(1):113

Altered parathyroid hormone-related protein secretion and mRNA expression in squamous carcinoma cells in vitro. Gröne A, et al. **Eur J Endocrinol** 1996 Oct;135(4):498–505

Differential transforming growth factor-beta secretion in adenocarcinoma and squamous cell carcinoma of the uterine cervix. Santin AD, et al. **Gynecol Oncol** 1997 Mar; 64(3):477–80

SURGERY

Infratemporal fossa surgery for malignant diseases. Iannetti G, et al. **Acta Neurochir (Wien)** 1996;138(6):658–71; discussion 671

Radical radiotherapy versus brachytherapy plus surgery in carcinoma of the cervix 2A and 2B—long-term results from a randomized study 1968–1980. Sundfør K, et al. **Acta Oncol** 1996;35 Suppl 8:99–107

Squamous cell carcinoma of the oral cavity: the results of the surgical and non-surgical therapeutic modalities in a consecutive series of 156 patients treated in Copenhagen county. Charabi S, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:226–8

T1–T2–T3 glottic tumors: fifteen years experience with CO2 laser. Motta G, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 527:155–9

Mobile tongue reconstruction with the free dorsalis pedis flap. Takeichi Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:30–4

Surgical treatment of oral cavity carcinomas. Moenir M. **Adv Otorhinolaryngol** 1997;51:103–11

Conservative conization for microinvasive carcinoma of the cervix. Tseng CJ, et al. **Am J Obstet Gynecol** 1997 May; 176(5):1009–10

The medially based myocutaneous upper eyelid flap for lateral nasal defect reconstruction. Maniglia AJ, et al. **Am J Otolaryngol** 1996 Mar-Apr;17(2):118–21

Conservation surgery for recurrent carcinoma of the glottic larynx. Lydiatt WM, et al. **Am J Surg** 1996 Dec; 172(6):662–4

A retrospective comparison of treatment outcome in the posterior and anterior tongue. Nason RW, et al. **Am J Surg** 1996 Dec;172(6):665–70

Selective neck dissection and the management of the node-positive neck. Traynor SJ, et al. **Am J Surg** 1996 Dec;172(6):654–7

The value of computed tomography scan versus an explorative surgical approach for removal of squamous cell carcinoma of the posterior pharyngeal wall. van den Hoogen FJ, et al. **Am J Surg** 1996 Dec;172(6):701–3

Risk factors of tracheostomal recurrence after laryngectomy for laryngeal carcinoma. Yuen AP, et al. **Am J Surg** 1996 Sep;172(3):263–6

Palliative gastric transposition following pharyngolaryngoesophagectomy. Azurin DJ, et al. **Am Surg** 1997 May;63(5):410–3

Multimodality treatment of squamous cell carcinoma complicating pilonidal disease. Kulaylat MN, et al. **Am Surg** 1996 Nov;62(11):922–9 (59 ref.)

Cricohyoidoepiglottopexy for glottic carcinoma with fixation or impaired motion of the true vocal cord: 5-year oncologic results with 112 patients. Chevalier D, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):364–9

Role of suprahyoid neck dissection in the treatment of squamous cell carcinoma of the lower lip. Koç C, et al. **Ann Otol Rhinol Laryngol** 1997 Sep;106(9):787–9

Functional outcome and prognosis factors after supracricoid partial laryngectomy with cricohyoidopexy. Naudo P, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):291–6

A combined reverse temporalis muscle flap and pericranial flap for reconstruction of an anterior cranial base defect: a case report. Atabey A, et al. **Ann Plast Surg** 1997 Aug; 39(2):190–2

Squamous cell carcinoma in perineal inflammatory disease. Gur E, et al. **Ann Plast Surg** 1997 Jun;38(6):653–7

Reconstruction of pelvic exenterative wounds with transpelvic rectus abdominis flaps: a case series. Jain AK, et al. **Ann Plast Surg** 1997 Feb;38(2):115–22; discussion 122–3

Functional reconstruction of total lower lip defects with a radial forearm free flap combined with a depressor anguli oris muscle transfer. Kushima H, et al. **Ann Plast Surg** 1997 Aug;39(2):182–5

Free composite graft for lip reconstruction after tumor excision. Terashi H, et al. **Ann Plast Surg** 1996 Jun; 36(6):582–5

Submental artery island flap for reconstruction of the lower and mid face. Yilmaz M, et al. **Ann Plast Surg** 1997 Jul; 39(1):30–5

Double skin paddle fibular flap for a through-and-through oromandibular defect. Yuen JC, et al. **Ann Plast Surg** 1996 Jul;37(1):111–5

Comparison of hand-sewn and stapled esophagogastric anastomosis after esophageal resection for cancer: a prospective randomized controlled trial. Law S, et al. **Ann Surg** 1997 Aug;226(2):169–73

Esophagectomy for cancer in the patient aged 70 years and older [see comments] Jougon JB, et al. **Ann Thorac Surg** 1997 May;63(5):1423–7. Comment in: Ann Thorac Surg 1997 May;63(5):1225–6.

One hundred video-assisted thoracic surgical simultaneously stapled lobectomies without rib spreading. Lewis RJ, et al. **Ann Thorac Surg** 1997 May;63(5):1415–21; discussion 1421–2

Pulmonary resection after pneumonectomy [letter; comment] Lewis RJ, et al. **Ann Thorac Surg** 1997 Aug;64(2):583–4. Comment on: Ann Thorac Surg 1996 Dec;62(6):1598–602.

Esophageal resection for cancer of the esophagus: long-term function and quality of life. McLarty AJ, et al. **Ann Thorac Surg** 1997 Jun;63(6):1568–72

Surgical treatment for intranasal squamous cell carcinoma. McEwen DR, et al. **AORN J** 1996 Jan;63(1):163–75; quiz 176, 179, 181–2 (15 ref.)

Tongue reconstruction procedures for treatment of cancer. Truelson JM, et al. **AORN J** 1997 Mar;65(3):528, 531–4, 537 passim

Lateral arm microvascular flap in head and neck reconstruction. Civantos FJ Jr, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):830–6

Surgical salvage after radiotherapy for advanced laryngopharyngeal carcinoma. Davidson J, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr;123(4):420–4

Adjunctive intraoperative photodynamic therapy and microvascular anastomoses [letter; comment] Dilkes M, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):888 . Comment on: Arch Otolaryngol Head Neck Surg 1996 Nov;122(11):1261–5.

Baroreflex dysfunction after nasopharyngectomy and bilateral carotid isolation. Lee HT, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr;123(4):434–7

Factors involved in long- and short-term mandibular plate exposure. Nicholson RE, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):217–22

Effectiveness of selective neck dissection for management of the clinically negative neck. Pitman KT, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):917–22

Internal jugular vein thrombosis after functional and selective neck dissection. Quraishi HA, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):969–73

Management of bilateral glottic tumors. Reino AJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):465–73

Intraoperative mapping of sensate flaps. Electrophysiologic techniques and neurosomal boundaries. Rhee JS, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):823–9

Synchronous lingual granular cell tumor and squamous carcinoma. A case report and review of the literature. Said-al-Naief N, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):543–7 (48 ref.)

The abductor digiti minimi flap: a case report and review. Bloom RJ, et al. **Aust N Z J Surg** 1997 Aug;67(8):582–3

Port-site recurrence after thoracoscopic resection of oesophageal cancer. Dixit AS, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):148–9

Squamous cell carcinomatous change in a posterior fossa epidermoid: case report with a review of the literature. Mohanty A, et al. **Br J Neurosurg** 1996 Oct;10(5):493–5 (20 ref.)

Anterior segment ischaemia after excision of conjunctival squamous cell carcinoma [letter] al-Hemidan AI, et al. **Br J Ophthalmol** 1997 Jun;81(6):516–7

Upper gastrointestinal bleeding following major maxillofacial surgery [letter] Newman L. **Br J Oral Maxillofac Surg** 1997 Jun;35(3):223–4

Ferguson-Smith syndrome: the importance of long term follow-up. Chakrabarty KH, et al. **Br J Plast Surg** 1996 Oct;49(7):497–8

Micrographic surgery for subungual squamous cell carcinoma. de Berker DA, et al. **Br J Plast Surg** 1996 Sep; 49(6):414–9

Gustatory sweating in a free flap. Dunaway DJ, et al. **Br J Plast Surg** 1996 Oct;49(7):471–2

Free arterialised venous forearm flaps for intraoral reconstruction. Klein C, et al. **Br J Plast Surg** 1997 Apr; 50(3):166–71

Mucosal prelaminated flaps for physiological reconstruction of intraoral defects after tumour resection. Rath T, et al. **Br J Plast Surg** 1997 Jul;50(5):303–7

Parallel self-expanding covered metal stents in the trachea and oesophagus for the palliation of complex high tracheo-oesophageal fistula. Ellul JP, et al. **Br J Surg** 1996 Dec;83(12):1767–8

Selective approach to the treatment of oesophageal cancer. Junginger T, et al. **Br J Surg** 1996 Oct;83(10):1473–7

Surgical treatment for carcinoma of the oesophagus in Chinese language publications. Li H, et al. **Br J Surg** 1997 Jun;84(6):855–7

First clinical experience with fundus rotation gastroplasty as a substitute for the oesophagus. Schilling M, et al. **Br J Surg** 1997 Jan;84(1):126–8

Long-term follow-up of men undergoing modified inguinal lymphadenectomy for carcinoma of the penis. Colberg JW, et al. **Br J Urol** 1997 Jan;79(1):54–7

Squamous cell carcinoma of the perionychium. Kuschner SH, et al. **Bull Hosp Jt Dis** 1997;56(2):111–2

Modified type IV–V radical hysterectomy with systematic pelvic and aortic lymphadenectomy in the treatment of patients with stage III cervical carcinoma. Feasibility, technique, and clinical results. Benedetti-Panici P, et al. **Cancer** 1996 Dec 1;78(11):2359–65

Video-assisted lobectomy in the elderly. Asamura H, et al. **Chest** 1997 Apr;111(4):1101–5

Tracheal tumors. Mathisen DJ. **Chest Surg Clin N Am** 1996 Nov;6(4):875–98 (16 ref.)

Principles of reconstruction following excision of nonmelanoma skin cancer. Fazio MJ, et al. **Clin Dermatol** 1995 Nov–Dec;13(6):601–16 (29 ref.)

Mohs micrographic surgery for nonmelanoma skin cancer. Telfer NR. **Clin Dermatol** 1995 Nov–Dec;13(6):593–600 (54 ref.)

Tumours of the posterior pharyngeal wall: the use of the platysma flap. Alvarez JC, et al. **Clin Otolaryngol** 1997 Jun; 22(3):246–50

Free jejunal graft reconstruction after total pharyngolaryngeal resection for hypopharyngeal cancer. Chevalier D, et al. **Clin Otolaryngol** 1997 Feb;22(1):41–3

Exfoliated malignant cells in glove and instrument washings following head and neck surgery. Curran AJ, et al. **Clin Otolaryngol** 1996 Jun;21(3):281–3

Management of the thyroid gland with laryngectomy for cT3 glottic carcinomas. Fagan JJ, et al. **Clin Otolaryngol** 1997 Feb;22(1):7–12

Nitrous oxide cryosurgery applied to skin cancers [letter] Boullie MC. **Dermatol Surg** 1997 Aug;23(8):714–6

Cryosurgical treatment of professional chronic radiodermatitis. Conejo-Mir JS, et al. **Dermatol Surg** 1997 Jun;23(6):483–6

Squamous cell carcinoma arising in osteomyelitis and chronic wounds. Treatment with Mohs micrographic surgery vs amputation. Kirsner RS, et al. **Dermatol Surg** 1996 Dec; 22(12):1015–8

Prognosis of early squamous cell carcinoma of the esophagus after surgical therapy. Bonavina L, et al. **Dis Esophagus** 1997 Jul;10(3):162–4

Extent of resection and lymphadenectomy in early squamous cell esophageal cancer. Nabeya K, et al. **Dis Esophagus** 1997 Jul;10(3):159–61 (28 ref.)

Swallowing and pharyngeal function in postoperative pharyngeal cancer patients. Martini DV, et al. **Ear Nose Throat J** 1997 Jul;76(7):450–3, 456

Endoscopic snare mucosectomy in the esophagus without any additional equipment: a simple technique for resection of flat early cancer. Soehendra N, et al. **Endoscopy** 1997 Jun;29(5):380–3

Endoscopic mucosectomy of the esophagus with a

"shark-tooth" polypectomy snare. Szántó I, et al. **Endoscopy** 1996 Nov;28(9):782

Selective neck dissection in the management of squamous cell carcinoma of the upper digestive tract. Ambrosch P, et al. **Eur Arch Otorhinolaryngol** 1996;253(6):329–35

Significance of tubal resection in surgical treatment of middle ear carcinoma. Mohri M, et al. **Eur Arch Otorhinolaryngol** 1997;254(4):208–11

CO2 laser in the diagnosis and treatment of early cancer of the vocal fold. Remacle M, et al. **Eur Arch Otorhinolaryngol** 1997;254(4):169–76

Functional utility and oncologic safety of near-total laryngectomy with tracheopharyngeal speech shunt in a Third World oncologic center. Shenoy AM, et al. **Eur Arch Otorhinolaryngol** 1997;254(3):128–32

Major glossectomy: end results of 106 cases. Magrin J, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):407–12

Surgical therapy of esophageal carcinoma: the influence of surgical approach and esophageal resection on cardiopulmonary function. Jacobi CA, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):32–7

Resectional surgery in carcinoma of the oesophagus and cardia: what influences long-term survival? Sharpe DA, et al. **Eur J Cardiothorac Surg** 1996;10(5):359–63; discussion 363–4

Induction therapy for clinical T4 oesophageal carcinoma; a plea for continued surgical exploration. Van Raemdonck D, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):828–37

Outcomes of radiotherapy and combined modality treatment of cervical cancer in patients under 35. Vishnevskaya EE, et al. **Eur J Gynaecol Oncol** 1996;17(5):400–2

The effect of preoperative high dose methylprednisolone in attenuating the metabolic response after oesophageal resection. Takeda S, et al. **Eur J Surg** 1997 Jul;163(7):511–7

Post-operative brachytherapy: a prognostic factor for local control in epidermoid carcinomas of the mouth floor. Lapeyre M, et al. **Eur J Surg Oncol** 1997 Jun;23(3):243–6

Resection rates and postoperative mortality in 7,899 patients with lung cancer. Damhuis RA, et al. **Eur Respir J** 1996 Jan;9(1):7–10

Surgical treatment of invasive penile cancer--the Heidelberg experience from 1968 to 1994. Brkovic D, et al. **Eur Urol** 1997;31(3):339–42

Female urethra-sparing cystectomy and orthotopic bladder replacement. Jarolím L, et al. **Eur Urol** 1997;31(2):173–7

Up-to-date management of carcinoma of the penis. Pizzocaro G, et al. **Eur Urol** 1997;32(1):5–15 (49 ref.)

Posterior exenteration through groin incision in a patient with stage III vulvar carcinoma. Rasmussen CC, et al. **Gynecol Oncol** 1997 Aug;66(2):331–4

Pretreatment transperitoneal laparoscopic staging pelvic and paraaortic lymphadenectomy in large (> or = 5 cm) stage IB2 cervical carcinoma: report of a pilot study. Recio FO, et al. **Gynecol Oncol** 1996 Dec;63(3):333–6

Cervical carcinoma metastatic to the brain. Robinson JB, et al. **Gynecol Oncol** 1997 Aug;66(2):324–6 (32 ref.)

Neoadjuvant chemotherapy in stage IB2 squamous cell carcinoma of the cervix. Serur E, et al. **Gynecol Oncol** 1997 May;65(2):348–56

Reconstruction of partial laryngopharyngectomy defects. Anthony JP, et al. **Head Neck** 1997 Sep;19(6):541–4

Mucoepidermoid carcinoma in a 10-year-old girl. April MM, et al. **Head Neck** 1997 Aug;19(5):431–5

Prognostic importance of surgical margins in advanced laryngeal squamous carcinoma. Bradford CR, et al. **Head Neck** 1996 Jan-Feb;18(1):11–6

Cutaneous nasal malignancies: is primary reconstruction safe? Evans GR, et al. **Head Neck** 1997 May;19(3):182–7

Combined-modality therapy for squamous carcinoma of the buccal mucosa: treatment results and prognostic factors. Fang FM, et al. **Head Neck** 1997 Sep;19(6):506–12

Are head and neck specific quality of life measures necessary? Gliklich RE, et al. **Head Neck** 1997 Sep;19(6):474–80

Squamous cell carcinoma of the floor of mouth: a 20-year review. Hicks WL Jr, et al. **Head Neck** 1997 Aug; 19(5):400–5

Whole salivary flow rates following submandibular gland resection. Jacob RF, et al. **Head Neck** 1996 May-Jun; 18(3):242–7

Supracricoid hemilaryngopharyngectomy conversion to Pearson's near-total laryngectomy: a case report. Laccourreye O, et al. **Head Neck** 1997 May;19(3):232–4

Prevention of stomal recurrence. León X, et al. **Head Neck** 1996 Jan-Feb;18(1):54–9

Posterior pharyngeal carcinoma resection with larynx preservation and radial forearm free flap reconstruction: a preliminary report. Lydiatt WM, et al. **Head Neck** 1996 Nov-Dec;18(6):501–5

Combined surgery and postoperative radiotherapy for carcinoma of the base of radiotherapy for carcinoma of the base of tongue: analysis of treatment outcome and prognostic value of margin status. Machtay M, et al. **Head Neck** 1997 Sep;19(6):494–9

Salvage surgery after radiotherapy failure in T1-T2 squamous cell carcinoma of the glottic larynx. McLaughlin MP, et al. **Head Neck** 1996 May-Jun;18(3):229–35

Frequency and therapeutic implications of "skip metastases" in the neck from squamous carcinoma of the oral tongue [letter; comment] Manni JJ. **Head Neck** 1997 Aug; 19(5):445–6. Comment on: Head Neck 1997 Jan;19(1):14–9.

Preservation of the larynx after resection of a carcinoma of the posterior wall of the hypopharynx: versatility of a free flap patch graft. Nakatsuka T, et al. **Head Neck** 1997 Mar; 19(2):137–42 (18 ref.)

Partial laryngectomy in the treatment of radiation-failure of early glottic carcinoma. Nibu K, et al. **Head Neck** 1997 Mar;19(2):116–20

Prognostic determinants in supraglottic carcinoma: univariate and Cox regression analysis. Nicolai P, et al. **Head Neck** 1997 Jul;19(4):323–34

Expanded application of selective neck dissection with regard to nodal status. Pellitteri PK, et al. **Head Neck** 1997 Jul; 19(4):260–5

Anterior ischemic optic neuropathy following neck dissection. Strome SE, et al. **Head Neck** 1997 Mar; 19(2):148–52 (12 ref.)

Assessment of malnutrition parameters in head and neck cancer and their relation to postoperative complications. van Bokhorst-de van der Schueren MA, et al. **Head Neck** 1997 Aug;19(5):419–25

Preservation of function by radiotherapy of small primary carcinomas preceded by neck dissection for extensive nodal metastases of the head and neck. Verschuur HP, et al. **Head Neck** 1996 May-Jun;18(3):277–82

Rehabilitation of a midface defect with reconstructive surgery and facial prosthetics: a case report. Lemon JC, et al. **Int J Oral Maxillofac Implants** 1996 Jan-Feb; 11(1):101–105

Oncologic aspects of vermilionectomy in microinvasive squamous cell carcinoma of the lower lip. van der Wal JE, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):446–8

Long-term regional control after radiation therapy and neck dissection for base of tongue carcinoma. Lee HJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):995–1000

Reevaluation of postoperative radiotherapy for thoracic esophageal carcinoma. Yamamoto M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):75–8

Delayed cervical anastomosis of the esophagus for esophageal carcinoma. Gurski RR, et al. **Int Surg** 1997 Jan-Mar;82(1):56–9

Surgical staging of invasive squamous cell carcinoma of the vulva. Analysis of treatment and survival. Origoni M, et al. **Int Surg** 1996 Jan-Mar;81(1):67–70

Surgical treatment of invasive carcinoma of the vulva: two different techniques. Iodice F, et al. **J Chemother** 1997 Apr; 9(2):131–2

Conization of the uterine cervix: two different surgical techniques. Iodice F, et al. **J Chemother** 1997 Apr; 9(2):133–4

Subungual lipoma, squamous carcinoma of the nail bed, and secondary chronic infection. Failla JM. **J Hand Surg [Am]** 1996 May;21(3):512–4

The use of selective lymphadenectomy in squamous cell carcinoma of the wrist: a case report. Stadelmann WK, et al. **J Hand Surg [Am]** 1997 Jul;22(4):726–31

Supraglottic laryngectomy--series report and analysis of results. Adamopoulos G, et al. **J Laryngol Otol** 1997 Aug; 111(8):730–4

Tracheoesophageal speech following transmucosal pharyngeal myotomy with the potassium-titanyl-phosphate laser. Halvorson DJ, et al. **J Laryngol Otol** 1997 Jul;111(7):659–62

Vocal function following laser and conventional surgery of small malignant vocal fold tumours. Keilmann A, et al. **J Laryngol Otol** 1996 Dec;110(12):1138–41

The syndrome of inappropriate secretion of antidiuretic hormone (SIADH) as a consequence of neck dissection. Mesko TW, et al. **J Laryngol Otol** 1997 May;111(5):449–53

Laparoscopically assisted total laryngopharyngoesophagectomy with gastric transposition. Montgomery P, et al. **J Laryngol Otol** 1996 Nov; 110(11):1072–4

Adjuvant surgery after radiotherapy. Eifel PJ. **J Natl Cancer Inst Monogr** 1996;(21):85–8 (28 ref.)

Extracranial-intracranial high-flow bypass using the radial artery between the vertebral and middle cerebral arteries. Technical note. Hadeishi H, et al. **J Neurosurg** 1996 Nov; 85(5):976–9

Accuracy of frozen sections in assessing margins in oral cancer resection. Ord RA, et al. **J Oral Maxillofac Surg** 1997 Jul;55(7):663–9; discussion 669–71

A comparison of segmental and marginal bony resection for oral squamous cell carcinoma involving the mandible. Ord RA, et al. **J Oral Maxillofac Surg** 1997 May;55(5):470–7; discussion 477–8

Lower lip cancer: Mohs micrographic surgery and reconstruction as a multidisciplinary effort. Zide MF, et al. **J Oral Maxillofac Surg** 1997 Aug;55(8):818–25; discussion 825–6

Myocutaneous flaps in patients with head and neck cancer retain their immunological capacities in an activated functional state. Kornfehl J, et al. **J Oral Pathol Med** 1997 Jan;26(1):29–35

Objective evaluation of function of the lower lip reconstructed with a myocutaneous advancement flap. Yoshida H, et al. **J Oral Rehabil** 1996 Feb;23(2):143–6

Treatment outcome of squamous cell carcinoma of the oral tongue. Gujrathi D, et al. **J Otolaryngol** 1996 Jun; 25(3):145–9

The surgical and prosthetic treatment of a central epidermoid carcinoma of the mandible: a clinical report. Nielsen A, et al. **J Prosthet Dent** 1995 Nov;74(5):446–8

The use of the CO2 laser for airway maintenance in obstructive supraglottic carcinoma. Leontsinis TG, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):414–5

Microsurgical reconstruction during the early puerperium. Iglesias M, et al. **J Reconstr Microsurg** 1996 May; 12(4):211–3

Surgical salvage of failed esophageal reconstruction attempted with gastric pedicle. Yamamoto Y, et al. **J Reconstr Microsurg** 1997 May;13(4):285–9

Outpatient loop electrosurgical excision procedure for cervical intraepithelial neoplasia. Can it replace cold knife conization? Eduardo AM, et al. **J Reprod Med** 1996 Oct; 41(10):729–32

Intrathoracic anastomosis after oesophageal resection for cancer. Agrawal S, et al. **J Surg Oncol** 1996 Sep;63(1):52–6

Tumor spread and outcome of treatment in primary esophageal small cell carcinoma. Nishimaki T, et al. **J Surg Oncol** 1997 Feb;64(2):130–4

Advanced cutaneous squamous cell carcinoma of the trunk and extremity: analysis of prognostic factors. North JH Jr, et al. **J Surg Oncol** 1997 Mar;64(3):212–7

A randomized trial of surgery with and without chemotherapy for localized squamous carcinoma of the thoracic esophagus: the Japan Clinical Oncology Group Study [see comments] Ando N, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):205–9. Comment in: J Thorac Cardiovasc Surg 1997 Aug;114(2):203–4.

Esophagogastrectomy for carcinoma of the esophagus and cardia: a comparison of findings and results after standard resection in three consecutive eight-year intervals with improved staging criteria. Ellis FH Jr, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):836–46; discussion 846–8

Editorial on combined therapy for squamous cell carcinoma of the esophagus [editorial; comment] Skinner DB. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):203–4. Comment on: J Thorac Cardiovasc Surg 1997 Aug;114(2):205–9. Comment on: J Thorac Cardiovasc Surg 1997 Aug;114(2):210–7.

Risk of urethral, vaginal and cervical involvement in patients undergoing radical cystectomy for bladder cancer: results of a contemporary cystectomy series from M. D. Anderson Cancer Center. Chen ME, et al. **J Urol** 1997 Jun; 157(6):2120–3 (13 ref.)

Prognostic factors in carcinoma of the penis: multivariate analysis of 145 patients treated with amputation and lymphadenectomy. Lopes A, et al. **J Urol** 1996 Nov; 156(5):1637–42

Platysma myocutaneous flap reconstruction. Bartal N, et al. **Laryngoscope** 1997 Feb;107(2):287–8

Supracricoid laryngectomy with cricohyoidopexy (CHP) in the treatment of laryngeal cancer: a functional and oncologic experience. de Vincentiis M, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1108–14

Experience with segmental reconstruction of the radiated mandible with alloplastic prostheses. Greene D, et al. **Laryngoscope** 1997 Aug;107(8):1018–23

Temporal bone carcinoma: contemporary perspectives in the skull base surgical era. Pensak ML, et al. **Laryngoscope** 1996 Oct;106(10):1234–7

Survival, function, and quality of life after total glossectomy. Ruhl CM, et al. **Laryngoscope** 1997 Oct;107(10):1316–21

One-stage reconstruction of partial laryngopharyngeal defects. Schuller DE, et al. **Laryngoscope** 1997 Feb; 107(2):247–53

Potential success of near-total laryngectomy despite postoperative radiation therapy. Terris DJ, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1152–6

Planned early neck dissection before radiation for persistent neck nodes after induction chemotherapy. Thomas GR, et al. **Laryngoscope** 1997 Aug;107(8):1129–37

Clinical and flow cytometric prognostic factors in surgically treated squamous cell lung cancer. Kolodziejski L, et al. **Lung Cancer** 1997 Mar;16(2-3):173–82

Long-term survival of surgical cases of lung cancer. Wada H, et al. **Lung Cancer** 1995 Dec;13(3):269–74

Mohs micrographic surgery for the treatment of difficult skin cancers. Skouge JW. **Md Med J** 1997 May-Jun;46(5):231–7 (42 ref.)

Hemifacial dismasking flap for anterior skull base tumor--technical note. Kyutoku S, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):666–9; discussion 669–70

Anterior transcranial (craniofacial) resection of tumors of the paranasal sinuses: surgical technique and results [letter; comment] Kaye AH. **Neurosurgery** 1997 Jan;40(1):219; discussion 219–20. Comment on: Neurosurgery 1996 Mar;38(3):471–9; discussion 479–80.

A trend toward more conservative surgery in gynecologic oncology. Menczer J. **Obstet Gynecol Surv** 1996 Oct; 51(10):628–36 (143 ref.)

Speech outcomes after laryngeal cancer management. Simpson CB, et al. **Otolaryngol Clin North Am** 1997 Apr; 30(2):189–205 (71 ref.)

Superior thyroid artery arising from the common carotid artery. Akyol MU, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):701

Combined surgery and radiation therapy for squamous cell carcinoma of the hypopharynx. Kraus DH, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):637–41

Extended temporal bone resection for squamous cell carcinoma. Moffat DA, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):617–23

Stoma recurrence after laryngectomy [letter; comment] Onerci TM. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):702–3. Comment on: Otolaryngol Head Neck Surg 1996 Apr;114(4):569–75.

Platysma myocutaneous flap: use for intraoral reconstruction. Özçelik T, et al. **Otolaryngol Head Neck Surg** 1997 Apr; 116(4):493–6

Management of persistent chylothorax. Postma GN, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):268–70

The necessity for aggressive treatment with Marjolin's ulcers of the scalp [letter] Aköz T, et al. **Plast Reconstr Surg** 1997 Sep;100(3):805–6

Further experiences with the sternocleidomastoid myocutaneous flap: a clinical appraisal of 31 cases. Ariyan S. **Plast Reconstr Surg** 1997 Jan;99(1):61–9

Functional reconstruction of the upper eyelid after excision of squamous cell carcinoma in xeroderma pigmentosum. Breier F, et al. **Plast Reconstr Surg** 1997 May;99(6):1730–3

European historical note of intraoperative radiation therapy (IORT): a case report from 1905 [letter] Casas F, et al. **Radiother Oncol** 1997 Jun;43(3):323–4

The value of therapeutic planning and the degree of experience of the surgical team on the results of cancer treatment of the larynx and hypopharynx. de Carvalho MB, et al. **Rev Paul Med** 1995 Sep–Oct;113(5):983–6

Pedicled temporoparietal galeal myofascial flap for orbital and cheek lining following radical maxillectomy. Hussain A, et al. **Rhinology** 1996 Dec;34(4):227–31

The palliative treatment of bronchial carcinoma with lasertherapy and stent. Batori M, et al. **Riv Eur Sci Med Farmacol** 1996 Jan–Feb;18(1):29–32

A flap to monitor a temporoparietal fascial flap. Case report. Ueda K, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep;30(3):235–7

Ivor Lewis procedure for epidermoid carcinoma of the esophagus. A series of 264 patients. Lozac'h P, et al. **Semin Surg Oncol** 1997 Jul–Aug;13(4):238–44

Thoracoscopic esophagectomy: are there benefits? Peracchia A, et al. **Semin Surg Oncol** 1997 Jul–Aug;13(4):259–62

Transhiatal esophagectomy for esophageal cancer. Pinotti HW, et al. **Semin Surg Oncol** 1997 Jul–Aug;13(4):253–8 (38 ref.)

Preliminary application of Gamma Knife in the treatment of nasopharyngeal carcinoma. Dong RH, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:201–7

Management for stage II glottic carcinoma: radiation therapy or surgery. Chatani M, et al. **Strahlenther Onkol** 1996 Dec; 172(12):664–8

Radical thoracoscopic esophagectomy for cancer. Dexter SP, et al. **Surg Endosc** 1996 Feb;10(2):147–51

Total removal of a primary intracranial squamous cell carcinoma invading the brain stem. Ogata N, et al. **Surg Neurol** 1996 Nov;46(5):477–80

Carinal resection and reconstruction for recurrent lung cancer. Kawahara K, et al. **Surg Today** 1997;27(2):163–5

Is video-assisted thoracoscopic surgery suitable for resection of primary lung cancer? Iwasaki A, et al. **Thorac Cardiovasc Surg** 1997 Feb;45(1):13–5

Sleeve lobectomy for lung carcinoma in a patient with muscular dystrophy. Okada M, et al. **Thorac Cardiovasc Surg** 1996 Oct;44(5):264–5

Left pneumonectomy for a second primary tumor after right upper lobectomy for superior sulcus tumor. Terzi A, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):155–7

Pattern of recurrence after extended radical esophagectomy with three-field lymph node dissection for squamous cell carcinoma in the thoracic esophagus. Bhansali MS, et al. **World J Surg** 1997 Mar–Apr;21(3):275–81

[A comparative study of cervical and thoracic anastomoses after esophagectomy for esophageal carcinoma] Chen J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):131–3 (Eng. Abstr.) **(Chi)**

[Prognostic factors affecting the results of surgical treatment of cervical cancer] Lou H, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):64–6 (Eng. Abstr.) **(Chi)**

[Supra-aortic arch esophagogastrostomy through esophageal bed in treating patients with middle and lower esophageal carcinoma] Yang L, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):37–40 (Eng. Abstr.) **(Chi)**

[Prognosis of hypopharyngeal and esophageal cancers treated with different surgical procedures] Zhou W, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(5):308–10 (Eng. Abstr.) **(Chi)**

[Clinical study of the tongue reconstruction with the free gracilis myocutanious flap] Zhang Z, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):198–200, 255 (Eng. Abstr.) **(Chi)**

[Tumoral proliferations in chronic plantar ulcers: how to treat?] Grauwin MY, et al. **Acta Leprol** 1996;10(2):101–4 (Eng. Abstr.) **(Fre)**

[Two-stage excision of extensive cutaneous carcinoma of the face. A retrospective study of 80 patients] Arfi C, et al. **Ann Dermatol Venereol** 1995;122(11–12):764–8 (Eng. Abstr.) **(Fre)**

[Reconstruction with free jejunal graft after total circular pharyngolaryngectomy. 73 cases] Julieron M, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(5):269–75 (Eng. Abstr.) **(Fre)**

[Horizontal supraglottic laryngectomy. Technique, indications, oncologic results and early functional results. Apropos of 87 cases] Maurice N, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(4):203–11 (Eng. Abstr.) **(Fre)**

[Recurrence after surgical treatment of epidermoid cancers of the esophagus. Therapeutic approach in 19 patients] Seitz JF, et al. **Gastroenterol Clin Biol** 1997;21(4):287–92 (Eng. Abstr.) **(Fre)**

[Management of cervical cancers in Yaounde. 111 cases] Yomi J, et al. **Med Trop (Mars)** 1996;56(2):159–62 (Eng. Abstr.) **(Fre)**

[Peroperative radiotherapy in the conservative treatment of infiltrating bladder cancers] Hulewicz G, et al. **Prog Urol** 1997 Apr;7(2):229–34 (Eng. Abstr.) **(Fre)**

[Tumor embolism with fatal cerebral infarct in pneumonectomy. Case report and review of the literature] Zürcher M, et al. **Chirurg** 1996 Sep;67(9):959–62 (37 ref.) (Eng. Abstr.) **(Ger)**

[Teleangiectasia haemorrhagica hereditaria. Surgical therapy of malignant skin tumors (Osler-Weber-Rendu disease] Breuninger H, et al. **Hautarzt** 1997 Jul;48(7):496–9 (Eng. Abstr.) **(Ger)**

[Significance of sternocleidomastoid muscle resection in radical neck dissection] Jaehne M, et al. **HNO** 1996 Dec; 44(12):661–5 (Eng. Abstr.) **(Ger)**

[Reconstruction in head and neck area with microvascular forearm flap and pectoralis major flap in Bulgaria. Experiences and results] Natschev I, et al. **HNO** 1996 Nov; 44(11):612–5 (Eng. Abstr.) **(Ger)**

[Neurovascular infrahyoid muscle fascia flap for tongue and pharynx reconstruction. Postoperative histologic long-term follow-up] Sommer TC, et al. **HNO** 1996 Jan;44(1):14–8 (Eng. Abstr.) **(Ger)**

[Acoustic voice analysis. On documentation of voice rehabilitation after laser surgery laryngeal carcinoma resection] Zwirner P, et al. **HNO** 1996 Sep;44(9):514–20 (Eng. Abstr.) **(Ger)**

[Cervical anastomotic stenosis after gastric tube reconstruction in esophageal carcinoma. Evaluation of a patient sample 1989–1995] Bruns CJ, et al. **Langenbecks Arch Chir** 1997;382(3):145–8 (Eng. Abstr.) **(Ger)**

[Removal of the small intestine in autologous jejunum transplantation for reconstruction of the mouth cavity is a secondary intervention with few complications] Zacherl J, et al. **Langenbecks Arch Chir** 1997;382(1):55–8 (Eng. Abstr.) **(Ger)**

[Micro-laser surgery in nasopharyngeal tumors with steel reflector. Report of experiences with an improved technique] Heher W. **Laryngorhinootologie** 1996 Nov; 75(11):700–2 (Eng. Abstr.) **(Ger)**

[Treatment and follow-up of patients with squamous epithelial carcinoma of the penis] Lümmen G, et al. **Urologe A** 1997 Mar;36(2):157–61 (Eng. Abstr.) **(Ger)**

[Transthoracic-transabdominal resection of esophageal carcinoma] Schröder H, et al. **Zentralbl Chir** 1997; 122(3):165–9; discussion 170 (Eng. Abstr.) **(Ger)**

[Effectiveness of radical therapy in vulvar carcinoma. An analysis of 148 cases] Bokhman JV, et al. **Zentralbl Gynakol** 1997;119(4):166–72 (Eng. Abstr.) **(Ger)**

[Pelvic exenteration: effects of surgical method on quality of life] Hawighorst-Knapstein S, et al. **Zentralbl Gynakol** 1997;119(4):160–5 (Eng. Abstr.) **(Ger)**

[Value of laparoscopic pelvic lymph node excision in inguinal vulvar carcinoma metastasis] Kamprath S, et al. **Zentralbl Gynakol** 1997;119(7):331–3 (Eng. Abstr.) **(Ger)**

[Results of an individualized surgical therapy of vulvar carcinoma from 1973–1993] Köhler U, et al. **Zentralbl Gynakol** 1997;119 Suppl 1:8–16 (Eng. Abstr.) **(Ger)**

[Endoscopic resection of the mucous membrane in esophageal tumors] Szánto I, et al. **Orv Hetil** 1996 Aug 18;137(33):1811–3 (Eng. Abstr.) **(Hun)**

[Synchronous surgical removal of esophageal and pulmonary cancer by endoscopic mucosectomy and video-assisted lobectomy through minimal thoracotomy] Szántó I, et al. **Orv Hetil** 1997 Jun 15;138(24):1567–9 (Eng. Abstr.) **(Hun)**

[Laryngeal vertical partial surgery. Surgical techniques. Oncological and functional results] Vega SF, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3):272–80 (Eng. Abstr.) **(Ita)**

[100 orthotopic neobladders in men after cystectomy: a 5-year experience] Mandressi A, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):323–31 (Eng. Abstr.) **(Ita)**

[Reconstruction of the defect in the parotid region] Pasta V, et al. **G Chir** 1997 Jan–Feb;18(1–2):44–6 (Eng. Abstr.) **(Ita)**

[Reconstruction using pedicle and free flaps in partial or total resections of the hypopharyngeal-esophageal tract] Pompei S, et al. **Minerva Chir** 1997 Mar;52(3):185–93 (Eng. Abstr.) **(Ita)**

[Prosthetic materials in surgery of esophageal cancer. Personal experience] Tosato F, et al. **Minerva Chir** 1997 Mar;52(3):195–200 (Eng. Abstr.) **(Ita)**

[Squamous cell carcinoma and basal cell carcinoma] Suzuki T, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):16–22 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Squamous cell carcinoma of ureter in a patient with functional solitary kidney treated by partial ureterectomy: a case report] Arisawa C, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):899–901 (Eng. Abstr.) **(Jpn)**

[Mitrofanoff procedure with bladder-sparing urethrectomy in female urethral carcinoma: report of a case] Ryoji O, et al. **Hinyokika Kiyo** 1997 Jun;43(6):425–7 (Eng. Abstr.) **(Jpn)**

[The combined resection of left atrium for advanced lung cancer on cardiopulmonary bypass: a case report] Kugai T, et al. **Kyobu Geka** 1996 Aug;49(9):738–41 (41 ref.) (Eng. Abstr.) **(Jpn)**

[A case of advanced lung cancer with long time survival, involving direct invasion to the liver] Matsumoto H, et al. **Kyobu Geka** 1997 Jul;50(7):595–7 (Eng. Abstr.) **(Jpn)**

[An experience of right pneumonectomy in the elderly (aged 82) lung cancer] Morita H, et al. **Kyobu Geka** 1996 Nov; 49(12):986–9 (Eng. Abstr.) **(Jpn)**

[Limited operation and simple lobectomy for primary lung cancer in poor risk patients] Ohta S, et al. **Kyobu Geka** 1996 Jul;49(7):519–23; discussion 523–5 (Eng. Abstr.) **(Jpn)**

[Clinicopathologic assessment of primary thymic carcinoma based on eighteen cases] Saito R, et al. **Kyobu Geka** 1996 Sep;49(10):797–801 (Eng. Abstr.) **(Jpn)**

[En bloc resection of the temporal bone for middle ear carcinoma extending to the cranial base] Somekawa Y, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jul;100(7):782–9 (Eng. Abstr.) **(Jpn)**

[Analysis of risk factors for development of bronchopleural fistula after pneumonectomy for lung cancer] Haraguchi S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1835–9 (Eng. Abstr.) **(Jpn)**

[Repair of the gastric tube–right main bronchus fistula after operation for esophageal cancer—treatment by transposition of pedicled pectoralis major muscle flap] Iwata T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1753–8 (Eng. Abstr.) **(Jpn)**

[A case of synchronous triple cancers with curative resection] Matsuoka M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):732–7 (11 ref.) **(Jpn)**

[The operation for malignant tumors in the frontal skull base: combined transbasal & transfacial approach] Kawakami K, et al. **No Shinkei Geka** 1996 Jul;24(7):613–20 (Eng. Abstr.) **(Jpn)**

[The use of the latissimus dorsi myocutaneous island flap for the reconstruction of the oral cavity floor and of the pharynx] Fruba J, et al. **Otolaryngol Pol** 1996;50(3):272–6 (Eng. Abstr.) **(Pol)**

[The evaluation of radiotherapy in the treatment of epidermoid carcinoma of the oral cavity] Kowalik S, et al. **Otolaryngol Pol** 1996;50(1):46–51 (27 ref.) (Eng. Abstr.) **(Pol)**

[Reconstructive surgery of the upper lip with esthetic-functional recovery] Nassif Filho AC, et al. **Rev Assoc Med Bras** 1996 Jul–Sep;42(3):151–4 (Eng. Abstr.) **(Por)**

[Results of pneumonectomy with resection of the tracheal bifurcation] Giller DB, et al. **Khirurgiia (Mosk)** 1997; (3):15–20 (Eng. Abstr.) **(Rus)**

[Role of endoscopic laser surgery in the surgical treatment of bronchial tumors] Grubnik VV, et al. **Klin Khir** 1996; (10):3–5 **(Rus)**

[Endoscopic laser surgery of tracheal tumors] Shipulin PP, et al. **Klin Khir** 1996;(4):27–9 **(Rus)**

[Variants in the transpubic approach in bladder cancer] Kudriavtsev LA, et al. **Urol Nefrol (Mosk)** 1996 Jul–Aug; (4):32–4 (Eng. Abstr.) **(Rus)**

[The surgical treatment of patients with bladder cancer in middle and old age] Tkachuk VN, et al. **Urol Nefrol (Mosk)** 1997 Jan–Feb;(1):23–5 (Eng. Abstr.) **(Rus)**

[One-step transpleural or transmediastinal esophagogastroplasty in resection of the esophagus for cancer] Simonov NN, et al. **Vestn Khir Im I I Grek** 1996; 155(6):14–6 (Eng. Abstr.) **(Rus)**

[Role pf genetic and other biomarkers in the prognostication of postoperative course in patients with lung cancer] Tsybikova EB, et al. **Vestn Ross Akad Med Nauk** 1996; (12):3–7 (Eng. Abstr.) **(Rus)**

[Electrosurgery as treatment of high grade squamous intraepithelial lesions of the cervix] Trejo Solorzano O, et al. **Ginecol Obstet Mex** 1997 Aug;65:332–8 (Eng. Abstr.) **(Spa)**

[Curettage and cryosurgery of epithelial skin cancer. Good 5-year results in the treatment of nose and ear cancer] Nordin P. **Lakartidningen** 1996 Sep 18;93(38):3241–3 (Eng. Abstr.) **(Swe)**

[Choices in the management of epithelial cancer of the skin] Skoog V. **Lakartidningen** 1996 Sep 18;93(38):3225 **(Swe)**

THERAPY

Squamous cell carcinoma of the oral cavity: the results of the surgical and non-surgical therapeutic modalities in a consecutive series of 156 patients treated in Copenhagen county. Charabi S, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:226–8

Radiotherapy with concomitant continuous cisplatin infusion for unresectable tumors of the upper aerodigestive tract: results of a phase I study. Bachaud JM, et al. **Am J Clin Oncol** 1997 Feb;20(1):1–5

Integration of surgery in multimodality therapy for esophageal cancer. Ebie N, et al. **Am J Clin Oncol** 1997 Feb;20(1):11–5

Management of cervical metastases in supraglottic cancer.

Gregor RT, et al. **Ann Otol Rhinol Laryngol** 1996 Nov; 105(11):845–50

Induction chemoradiotherapy followed by esophagectomy in patients with carcinoma of the esophagus. Jones DR, et al. **Ann Thorac Surg** 1997 Jul;64(1):185–91; discussion 191–2

Photodynamic therapy as an adjuvant intraoperative treatment of recurrent head and neck carcinomas [see comments] Biel MA. **Arch Otolaryngol Head Neck Surg** 1996 Nov;122(11):1261–5. Comment in: Arch Otolaryngol Head Neck Surg 1997 Aug;123(8):888.

Generation of therapeutic T cells from draining lymph nodes in a murine model of head and neck squamous cell carcinoma. Sadeghi N, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):25–30

Intensified regimen for advanced head and neck squamous cell carcinomas. Schuller DE, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):139–44

Patterns of care for cancer of the larynx in the United States. Shah JP, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):475–83

Invasive cervical cancer in pregnancy [see comments] Allen DG, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov; 35(4):408–12. Comment in: Aust N Z J Obstet Gynaecol 1996 May;36(2):228. Comment in: Aust N Z J Obstet Gynaecol 1996 Nov;36(4):496–7.

Neo-adjuvant chemotherapy +/– immunotherapy with s.c. IL 2 in advanced squamous cell carcinoma of the head and neck: a pilot study. Mantovani G, et al. **Biotherapy** 1994;8(2):91–8

Selection of monoclonal antibody E48 IgG or U36 IgG for adjuvant radioimmunotherapy in head and neck cancer patients. de Bree R, et al. **Br J Cancer** 1997;75(7):1049–60

Macrophage-directed immunotherapy as adjuvant to photodynamic therapy of cancer. Korbelik M, et al. **Br J Cancer** 1997;75(2):202–7

Treatment of node-positive endometrial cancer with complete node dissection, chemotherapy and radiation therapy. Onda T, et al. **Br J Cancer** 1997;75(12):1836–41

Management of invasive squamous cell carcinoma of the bulbomembranous male urethra with co-ordinated chemo-radiotherapy and genital preservation. Oberfield RA, et al. **Br J Urol** 1996 Oct;78(4):573–8

Induction chemotherapy followed by radiotherapy versus radiotherapy alone in patients with advanced nasopharyngeal carcinoma: results of a matched cohort study. Geara FB, et al. **Cancer** 1997 Apr 1;79(7):1279–86

Phase II trial of weekly locoregional hyperthermia and cisplatin in patients with a previously irradiated recurrent carcinoma of the uterine cervix. Rietbroek RC, et al. **Cancer** 1997 Mar 1;79(5):935–43

Cytotoxicity of bleomycin and external radiation in squamous cell cancer cell lines of head and neck. Jääskelä-Saari HA, et al. **Cancer Detect Prev** 1996;20(4):279–84

Characterization of a high-affinity monoclonal antibody specific for CD44v6 as candidate for immunotherapy of squamous cell carcinomas. Heider KH, et al. **Cancer Immunol Immunother** 1996 Dec;43(4):245–53

The clinical application of DNA content and kinetic parameters in the treatment of patients with squamous cell carcinomas of the head and neck. Ensley JF. **Cancer Metastasis Rev** 1996 Mar;15(1):133–41 (40 ref.)

Tumor necrosis factor alpha (TNF-alpha) gene therapy targeted by ionizing radiation selectively damages tumor vasculature. Mauceri HJ, et al. **Cancer Res** 1996 Oct 1; 56(19):4311–4

Treatment of a malignant esophageal fistula with a Gore-Tex-covered flexible nitinol stent. Kishi K, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):63–6

Transforming growth factor beta modulation of the epidermal growth factor Ca2+ signal and c-Fos oncoprotein levels in A431 human epidermoid carcinoma cells. Elliget KA, et al. **Cell Growth Differ** 1996 Apr; 7(4):461–8

Cryotherapy of nonmelanoma skin cancer. August PJ. **Clin Dermatol** 1995 Nov–Dec;13(6):589–92 (14 ref.)

Comparison of treatment modalities for squamous cell carcinoma. Geisse JK. **Clin Dermatol** 1995 Nov–Dec; 13(6):621–6 (31 ref.)

Epidermoid anal cancer in HIV infected patients. Bottomley DM, et al. **Clin Oncol (R Coll Radiol)** 1996;8(5):319–22

The effects of thymostimulin on immunological function in patients with head and neck cancer. Kerrebijn JD, et al. **Clin Otolaryngol** 1996 Oct;21(5):455–62

Early detection and management of esophageal cancer. Margulies C, et al. **Compr Ther** 1996 Sep;22(9):565–78 (98 ref.)

Gene therapy for head and neck cancer. Breau RL, et al. **Curr Opin Oncol** 1996 May;8(3):227–31 (33 ref.)

Squamous cell carcinoma of the nail bed. Lai CS, et al. **Cutis** 1996 May;57(5):341–5 (25 ref.)

Endoscopic ultrasonography for assessment of the response to combined radiation therapy and chemotherapy in patients with esophageal cancer. Giovannini M, et al. **Endoscopy** 1997 Jan;29(1):4–9

Self-expanding metallic coil stents for palliation of esophageal carcinoma: two cases of decisive stent dysfunction. Löser C, et al. **Endoscopy** 1996 Aug; 28(6):514–7

Two cases of fractured esophageal nitinol stents. Schoefl R, et al. **Endoscopy** 1996 Aug;28(6):518–20

Induction therapy for clinical T4 oesophageal carcinoma; a plea for continued surgical exploration. Van Raemdonck D, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):828–37

Prior radiation and chemotherapy increase the risk of life-threatening complications after insertion of metallic stents for esophagogastric malignancy [see comments] Kinsman KJ, et al. **Gastrointest Endosc** 1996 Mar; 43(3):196–203. Comment in: Gastrointest Endosc 1996 Mar;43(3):258–60.

Combination of laser treatment and intraluminal radiotherapy for malignant dysphagia. Shmueli E, et al. **Gut** 1996 Jun; 38(6):803–5

Squamous cell carcinoma arising in mature cystic teratoma of the ovary. Tseng CJ, et al. **Gynecol Oncol** 1996 Dec; 63(3):364–70

Effects of electrochemotherapy on CaSki cells derived from a cervical squamous cell carcinoma. Yabushita H, et al. **Gynecol Oncol** 1997 May;65(2):297–303

Supraglottic hemilaryngopharyngectomy plus radiation for the treatment of early lateral margin and pyriform sinus carcinoma. Chevalier D, et al. **Head Neck** 1997 Jan; 19(1):1–5

Quality of life of disease-free survivors of advanced (stage III or IV) oropharyngeal cancer. Deleyiannis FW, et al. **Head Neck** 1997 Sep;19(6):466–73

Changes in quality-of-life scores in a population of patients treated for squamous cell carcinoma of the head and neck. McDonough EM, et al. **Head Neck** 1996 Nov–Dec; 18(6):487–93

The clinical and histopathological contributing factors influencing the effectiveness of preoperative hyperthermo-chemo-radiotherapy for the patients with esophageal cancer. Kitamura M, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):175–80

Management of tumor overgrowth in esophageal cancer by placement of a second stent: two case reports. Ribeiro JC, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1537–9

Synchronous oesophageal carcinoma with non Hodgkin's lymphoma, problems with management. Ramesh V, et al. **Indian J Cancer** 1996 Sep;33(3):153–6

Monoclonal antibody U36, a suitable candidate for clinical immunotherapy of squamous-cell carcinoma, recognizes a CD44 isoform. Van Hal NL, et al. **Int J Cancer** 1996 Nov 15;68(4):520–7

The use of a hypoxic cell radiosensitizer AK-2123 gave no improvement in thermoradiotherapy combined with hydralazine. Kozin SV, et al. **Int J Hyperthermia** 1996 Nov–Dec;12(6):771–7

Bioluminescence imaging of metabolites in a human tumour xenograft after treatment with hyperthermia and/or the radiosensitizer pimonidazole. Tamulevicius P, et al. **Int J Hyperthermia** 1997 Mar–Apr;13(2):235–45

Requiring institutions to inform participants who have completed therapy on SWOG-8892 (RT +/– cisplatin for nasopharyngeal cancer) about early study closure: right idea, wrong patients [letter] Amdur RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1;38(3):673

Combined postoperative radiotherapy and weekly cisplatin infusion for locally advanced head and neck carcinoma: final report of a randomized trial. Bachaud JM, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):999–1004

Comparative evaluation of therapeutic approaches in stage III and IV squamous cell carcinoma of the thoracic esophagus with conventional radiotherapy and endoscopic treatment in combination and endoscopic treatment alone: a randomized prospective trial. Kharadi MY, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):309–20

Early glottic cancer: the influence of primary treatment on voice preservation. Lesnicar H, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1025–32

Advanced carcinoma of the larynx: results of surgery and radiotherapy without induction chemotherapy (1980–1985): a multivariate analysis. Nguyen TD, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1013–8

Effectiveness of hyperthermia and radiation treatments for patients with esophageal cancer predicted by the succinate dehydrogenase inhibition test. Matsuda H, et al. **Int Surg** 1997 Jan–Mar;82(1):91–3

Hyperthermia combined with chemotherapy and irradiation for the prolongation of the postoperative prognosis in the patients with esophageal carcinoma invading neighbouring structures. Nozoe T, et al. **Int Surg** 1996 Jan–Mar; 81(1):21–6

Role of mitomycin in combination with fluorouracil and radiotherapy, and of salvage chemoradiation in the definitive nonsurgical treatment of epidermoid carcinoma of the anal canal: results of a phase III randomized intergroup study. Flam M, et al. **J Clin Oncol** 1996 Sep; 14(9):2527–39

Treatment of oral cavity and oropharynx squamous cell carcinoma with perilymphatic interleukin-2: clinical and pathologic correlations. De Stefani A, et al. **J Immunother Emphasis Tumor Immunol** 1996 Mar; 19(2):125–33

Phase II trial of interferon-alpha in locally recurrent or metastatic squamous cell carcinoma of the head and neck: immunological and clinical correlates. Vlock DR, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):433–42

Treatment of unresectable recurrent head and neck carcinoma with 13-cis-retinoic acid and interferon-alpha. A phase II study. Nikolaou AC, et al. **J Laryngol Otol** 1996 Sep;110(9):857–61

p53 mutation and locoregional treatment failure in head and neck squamous cell carcinoma. Koch WM, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1580–6

Management of stage IA cervical carcinoma. Morris M. **J Natl Cancer Inst Monogr** 1996;(21):47–52 (25 ref.)

The relapse patterns and outcome of postoperative recurrent tongue cancer. Sun LM, et al. **J Oral Maxillofac Surg** 1997 Aug;55(8):827–31

Final results of a randomized trial comparing chemotherapy plus radiotherapy with chemotherapy plus surgery plus radiotherapy in locally advanced resectable hypopharyngeal carcinomas. Beauvillain C, et al. **Laryngoscope** 1997 May;107(5):648–53

Nasal septal squamous cell carcinoma: a chart review and meta-analysis. DiLeo MD, et al. **Laryngoscope** 1996 Oct; 106(10):1218–22

Effect of radiotherapy and chemoradiotherapy on circulating antioxidant system of human uterine cervical carcinoma. Bhuvarahamurthy V, et al. **Mol Cell Biochem** 1996 May 10;158(1):17–23

Multimodal therapy for esophageal adenocarcinoma [letter; comment] Badwe RA, et al. **N Engl J Med** 1997 Jan 30; 336(5):374–5; discussion 375–6. Comment on: N Engl J Med 1996 Aug 15;335(7):462–7.

Squamous cell carcinoma of the anal margin [see comments] Mendenhall WM, et al. **Oncology (Huntingt)** 1996 Dec; 10(12):1843–8; discussion 1848, 1853–4 (7 ref.). Comment in: Oncology (Huntingt) 1997 May;11(5):629–30.

Hyperbaric oxygen therapy [letter; comment] Feldmeier JJ, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):703–4. Comment on: Otolaryngol Head Neck Surg 1996 Jun;114(6):793–7.

Role of interstitial brachytherapy in oral and oropharyngeal carcinoma: reflection of a series of 1344 patients treated at the time of initial presentation. Pernot M, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):519–26

What can we learn from the hyperbaric oxygen trials in head and neck cancer? Hartmann KA, et al. **Strahlenther Onkol** 1996 Nov;172 Suppl 2:26–7

Treatment of cervical lymph node metastasis from an unknown primary tumor, with a review of the literature. van der Planken HJ, et al. **Strahlenther Onkol** 1997 Mar; 173(3):163–9

Carcinoma of the oesophagus: the time for a multidiciplinary approach? Clark GW, et al. **Surg Oncol** 1996 Aug; 5(4):149–64 (118 ref.)

Cervical lymphatics and squamous cell carcinoma of the head and neck: biologic significance and therapeutic considerations. Carlson GW. **Surg Oncol Clin N Am** 1996 Jan;5(1):65–77 (67 ref.)

Anal squamous cell cancer nodal metastases: prognostic significance and therapeutic considerations. Cohen AM, et al. **Surg Oncol Clin N Am** 1996 Jan;5(1):203–10

[Combination treatment of late nasopharyngeal carcinoma: an analysis of short-term therapeutic results in 200 cases] Zhang S, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan; 18(1):70–2 (Eng. Abstr.) **(Chi)**

[The experimental treatment of laryngeal cancer using local draining lymph node lymphocytes] Wu Y, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1996;31(1):26–8 (Eng. Abstr.) **(Chi)**

[A patient with a psychiatric disorder who refuses treatment of a somatic disease (see comments)] Monden MA, et al. **Ned Tijdschr Geneeskd** 1997 Feb 1;141(5):247–9 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Mar 29;141(13):649–50. Comment in: Ned Tijdschr Geneeskd 1997 Mar 29;141(13):650. **(Dut)**

[Induction treatment of locally advanced operable cancers of the esophagus. Prognostic significance of the histologic response] Thomas P, et al. **Ann Chir** 1997;51(3):222–31 (Eng. Abstr.) **(Fre)**

[Treatment of epidermoid carcinoma of the mobile tongue] Brasnu D. **Ann Otolaryngol Chir Cervicofac** 1997; 114(3):92–6 **(Fre)**

[Split-course concomitant radiochemotherapy plus surgery vs. surgery alone in squamous cell carcinoma of the esophagus. A non-randomized retrospective study of 184 patients] Malhaire JP, et al. **Bull Cancer** 1997 Apr; 84(4):357–67 (Eng. Abstr.) **(Fre)**

[13-cis retinoic acid and interferon-alfa-2a as palliative therapy in pretreated, recurrent squamous epithelial carcinoma of the cervix uteri and vulva] Römisch M, et al. **Geburtshilfe Frauenheilkd** 1996 Oct;56(10):520–4 (Eng. Abstr.) **(Ger)**

[Are MAGE-1 and MAGE-3 suitable as vaccination antigens in esophageal carcinomas?] Stremmel C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:789–92 (Eng. Abstr.) **(Ger)**

[Use of MR-controlled laser-induced thermotherapy in recurrent squamous epithelial carcinoma of the head-neck area] Bockmühl U, et al. **Laryngorhinootologie** 1996 Oct; 75(10):597–601 (Eng. Abstr.) **(Ger)**

[Somatic gene therapy in squamous epithelial carcinomas of the head-neck area] Wollenberg B, et al. **Laryngorhinootologie** 1996 Jun;75(6):356–62 (42 ref.) (Eng. Abstr.) **(Ger)**

[Endoscopic palliation of malignant esophageal stenoses] Baral J, et al. **Leber Magen Darm** 1996 Sep;26(5):243–6 (Eng. Abstr.) **(Ger)**

[Lymph node recurrence in patients with stage N0 and N+ oral squamous cell carcinoma without capsular rupture] Becker A. **Strahlenther Onkol** 1996 Sep;172(9):518–9 **(Ger)**

[Predictive and prognostic significance of PCNA, p53, bcl-2 and intratumor vessel density in radiochemotherapy of advanced head and neck tumors] Grabenbauer GG. **Strahlenther Onkol** 1997 Mar;173(3):174-5 **(Ger)**

[Therapeutic alternatives in the treatment of class T1N0 squamous cell carcinoma of the penis: indications and limitations] Piva L, et al. **Arch Ital Urol Androl** 1996 Jun; 68(3):157-61 (Eng. Abstr.) **(Ita)**

[Treatment of lymphatic metastasis of squamous cell carcinoma of the penis: experience at the National Tumor Institute of Milan] Pizzocaro G, et al. **Arch Ital Urol Androl** 1996 Jun;68(3):169-72 (Eng. Abstr.) **(Ita)**

[Therapy of patients with head and neck neoplasms using cytotoxic T lymphocytes] IshikawaT, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):621-4 (10 ref.) **(Jpn)**

[Squamous cell carcinoma of the parotid gland in children] Higuchi S, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul; 99(7):999-1003 (25 ref.) (Eng. Abstr.) **(Jpn)**

[A clinical study of squamous cell carcinoma of the tongue base] Inakami K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul;99(7):1010-5 (Eng. Abstr.) **(Jpn)**

[8-year natural history of squamous cell lung cancer] Szczęsna A, et al. **Pneumonol Alergol Pol** 1996; 64(11-12):805-8 (Eng. Abstr.) **(Pol)**

[Historical evolution of the treatment of esophageal cancer at the Hospital A. C. Camargo, São Paulo, Brazil] Mirra AP, et al. **Rev Assoc Med Bras** 1995 Jul-Aug;41(4):277-83 (Eng. Abstr.) **(Por)**

[Vulvar cancer. The therapeutic aspects] Angelescu N, et al. **Chirurgia (Bucur)** 1996 Mar-Apr;45(2):47-9 (Eng. Abstr.) **(Rum)**

[A case of a cure of synchronous multiple primary neoplasm of the laryngopharynx and stomach] Klochikhin AL, et al. **Vestn Otorinolaringol** 1997;(1):56 **(Rus)**

[Treatment of the regional lymph nodes in squamous carcinoma of the penis] Bernardo N, et al. **Arch Esp Urol** 1996 Oct;49(8):813-8 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Transvaginal color Doppler ultrasound for monitoring the response to neoadjuvant chemotherapy in advanced cervical cancer. Greco P, et al. **Acta Obstet Gynecol Scand** 1997 Feb;76(2):169-72

Using endosonography to assess the effects of neoadjuvant therapy in patients with advanced esophageal cancer. Hirata N, et al. **AJR Am J Roentgenol** 1997 Aug; 169(2):485-91

Color duplex echography in head and neck cancer. Leuwer RM, et al. **Am J Otolaryngol** 1997 Jul-Aug;18(4):254-7

Endoscopic ultrasonography for assessment of the response to combined radiation therapy and chemotherapy in patients with esophageal cancer. Giovannini M, et al. **Endoscopy** 1997 Jan;29(1):4-9

Ultrasonographic detection of lymph-node metastases in superficial carcinoma of the esophagus. Natsugoe S, et al. **Endoscopy** 1996 Oct;28(8):674-9

Endoscopic ultrasound staging criteria for esophageal cancer. Brugge WR, et al. **Gastrointest Endosc** 1997 Feb; 45(2):147-52

Evaluation of metastases and reactive lymph nodes in Doppler sonography using an ultrasound contrast enhancer. Mäurer J, et al. **Invest Radiol** 1997 Aug; 32(8):441-6

Keratinization and necrosis. Morphologic aspects of lymphatic metastases in ultrasound. Mäurer J, et al. **Invest Radiol** 1996 Sep;31(9):545-9

Squamous cell carcinoma of the urethra: ultrasonographic findings. De Maeseneer M, et al. **J Belge Radiol** 1996 Dec; 79(6):253-4

Endoscopic ultrasonography for preoperative staging of esophageal carcinoma. Massari M, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):162-5

[Color Doppler ultrasound studies of benign and malignant lymph nodes] Benzel W, et al. **HNO** 1996 Dec; 44(12):666-71 (Eng. Abstr.) **(Ger)**

[What is the value of color-coded duplex ultrasound in diagnosis of head-neck tumors] Leuwer R, et al. **Laryngorhinootologie** 1996 Feb;75(2):95-9 (Eng. Abstr.) **(Ger)**

ULTRASTRUCTURE

Prognostic significance of epidermal growth factor receptor in laryngeal squamous cell carcinoma. Maurizi M, et al. **Br J Cancer** 1996 Oct;74(8):1253-7

Ultrastructure of oral squamous cell carcinoma: a comparative analysis of different histological types. Kannan S, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):32-42

Changes in the ultrastructure of human cells related to certain biological responses under hyperthermic culture conditions. Iwagami Y. **Hum Cell** 1996 Dec;9(4):353-66

Mean nuclear area and chromosomal DNA content of squamous cell carcinomas of the oral cavity using computerized image analysis. Sarker SK, et al. **J Laryngol Otol** 1997 Feb;111(2):141-4

[Glycohistochemical analysis of apoptotic bodies in eyelid tumor] Uehara F, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jul;101(7):611-6 (Eng. Abstr.) **(Jpn)**

[The use of x-ray microanalysis and transmission microscopy in studies of the chemical composition and ultrastructure of the microregions of precancerous tissues of the larynx] Pilch J, et al. **Otolaryngol Pol** 1996;50(5):471-8 (Eng. Abstr.) **(Pol)**

[Significance of formation of micronuclei in SCC VII murine cells treated with various chemotherapeutic agents] Jeremić B, et al. **Srp Arh Celok Lek** 1996 Jul-Aug;124(7-8):169-74 (Eng. Abstr.) **(Scc)**

[Expression of proto-oncogene bcl-2 in squamous cell carcinoma of the larynx] Mochón A, et al. **Acta Otorrinolaringol Esp** 1997 Jan-Feb;48(1):15-20 (Eng. Abstr.) **(Spa)**

[Subacute combined degeneration of the spinal cord: manifestations of esophageal epidermoid carcinoma] Madrid A, et al. **Rev Neurol** 1997 Jul;25(143):1098-101 (Eng. Abstr.) **(Spa)**

VETERINARY

Comparison of intratumoral administration of cisplatin versus bleomycin for treatment of periocular squamous cell carcinomas in horses. Théon AP, et al. **Am J Vet Res** 1997 Apr;58(4):431-6

Squamous cell carcinoma-like and pox lesions occurring simultaneously in chorioallantoic membranes of chicken embryos inoculated with materials from squamous cell carcinoma and pox lesions in broiler chickens. Fallavena LC, et al. **Avian Dis** 1997 Apr-Jun;41(2):469-71

Analysis of the equine tumor suppressor gene p53 in the normal horse and in eight cutaneous squamous cell carcinomas. Pazzi KA, et al. **Cancer Lett** 1996 Oct 1; 107(1):125-30

Bilateral Horner's syndrome secondary to metastatic squamous cell carcinoma in a horse. Bacon CL, et al. **Equine Vet J** 1996 Nov;28(6):500-3

Serum-free conditions for the long term growth and differentiation of neoplastic canine keratinocytes. Crameri FM, et al. **Exp Dermatol** 1997 Jun;6(3):147-55

Feline cutaneous squamous cell carcinoma of the nasal planum and the pinnae: 61 cases. Lana SE, et al. **J Am Anim Hosp Assoc** 1997 Jul-Aug;33(4):329-32

Squamous cell carcinoma of the midventral abdominal pad in three gerbils. Jackson TA, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):789-91

What is your diagnosis? Squamous cell carcinoma of the paranasal sinuses in a horse. Kemper DL, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1555-6

Analysis of prognostic factors and patterns of failure in dogs with malignant oral tumors treated with megavoltage irradiation. Théon AP, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):778-84

Squamous cell carcinoma of the renal pelvis with metastasis in a dog. Dagli ML, et al. **J Comp Pathol** 1997 May; 116(4):397-402

Immunohistochemical detection of P53 overexpression in paraffin wax-embedded squamous cell carcinomas of cattle, horses, cats and dogs. Teifke JP, et al. **J Comp Pathol** 1996 Feb;114(2):205-10

Intracranial squamous cell carcinoma causing Horner's syndrome in a cow. Pace LW, et al. **J Vet Diagn Invest** 1997 Jan;9(1):106-8

Gastric squamous cell carcinoma in three llamas. Sartin EA, et al. **J Vet Diagn Invest** 1997 Jan;9(1):103-6

Oral squamous cell carcinoma in ad libitum-fed and food-restricted Brown-Norway rats. Thurman JD, et al. **Toxicol Pathol** 1997 Mar-Apr;25(2):217-24

Total and partial orbitectomy for the treatment of periorbital tumors in 24 dogs and 6 cats: a retrospective study. O'Brien MG, et al. **Vet Surg** 1996 Nov-Dec;25(6):471-9

Epithelial neoplasms of the skin, the cutaneous mucosa and the transitional epithelium in dogs: an immunolocalization study for papillomavirus antigen. Schwegler K, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):115-23

VIROLOGY

Presence of human papillomavirus in squamous cell laryngeal carcinomas. A study of thirty-nine cases using polymerase chain reaction and in situ hybridization. Lie ES, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):900-5

Human papillomaviruses: a study of their prevalence in the epithelial hyperplastic lesions of the larynx. Poljak M, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:66-9

Human papillomavirus and Epstein-Barr virus in sinonasal Schneiderian papillomas. An in situ hybridization and polymerase chain reaction study. Gaffey MJ, et al. **Am J Clin Pathol** 1996 Oct;106(4):475-82

Absence of Epstein-Barr virus in lymphoepitheliomalike carcinoma of the skin. Polymerase chain reaction evidence and review of five cases. Gillum PS, et al. **Am J Dermatopathol** 1996 Oct;18(5):478-82

Identification of human papillomavirus types 16 and 18 deoxyribonucleic acid sequences in bulky cervical cancer after chemotherapy. Tseng CJ, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):865-9

Prevalence of human papillomavirus in middle ear carcinoma associated with chronic otitis media. Jin YT, et al. **Am J Pathol** 1997 Apr;150(4):1327-33

Differential expression of the monocyte chemoattractant protein-1 gene in human papillomavirus-16-infected squamous intraepithelial lesions and squamous cell carcinomas of the cervix uteri. Riethdorf L, et al. **Am J Pathol** 1996 Nov;149(5):1469-76

Nasopharyngeal carcinoma, with emphasis on its relationship to Epstein-Barr virus. Vasef MA, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):348-56 (109 ref.)

p53 overexpression and human papillomavirus (HPV) infection in oesophageal squamous cell carcinomas derived from a high-incidence area in China. Chang F, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):709-15

Detection and analysis of human papillomavirus 16 and 18 homologous DNA sequences in oral lesions. Wen S, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):307-11

HPV 16 infection in a patient with two primary squamous cell carcinomas: of the uterine cervix and the anal mucosa. Berner A, et al. **APMIS** 1997 Mar;105(3):207-12

Human herpesvirus 8 sequences are not detected in epithelial tumors from patients receiving transplants [letter] Lebbé C, et al. **Arch Dermatol** 1997 Jan;133(1):111

Demonstration of human papillomavirus type 16-related DNA and absence of detectable p53 gene mutations in widespread cutaneous squamous cell carcinomas after oral psoralen with UV-A treatment [letter] Rübben A, et al. **Arch Dermatol** 1996 Oct;132(10):1257-9

Association of human papillomavirus type 11 DNA with squamous cell carcinoma of the tongue. Fife KH, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec;122(12):1404-8

Human papillomavirus in head and neck squamous cell carcinomas in nonsmokers. Fouret P, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):513-6

Human papillomavirus type in anal epithelial lesions is influenced by human immunodeficiency virus. Unger ER, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):820-4

Human papillomavirus in corneal and conjunctival carcinoma. Tabrizi SN, et al. **Aust N Z J Ophthalmol** 1997 Aug;25(3):211-5

Human papilloma virus in neoplastic and non-neoplastic conditions of the external eye. Karcioglu ZA, et al. **Br J Ophthalmol** 1997 Jul;81(7):595-8

Detection of human papillomavirus infection in squamous tumours of the conjunctiva and lacrimal sac by immunohistochemistry, in situ hybridisation, and polymerase chain reaction. Nakamura Y, et al. **Br J Ophthalmol** 1997 Apr;81(4):308-13

The aetiological significance of human papillomavirus in bladder cancer. Boucher NR, et al. **Br J Urol** 1996 Dec; 78(6):866-9

Human papillomavirus (HPV) in head and neck cancer. An association of HPV 16 with squamous cell carcinoma of Waldeyer's tonsillar ring. Paz IB, et al. **Cancer** 1997 Feb 1;79(3):595-604

Lymphoepithelioma-like carcinoma of the uterine cervix: association with Epstein-Barr virus and human papillomavirus. Tseng CJ, et al. **Cancer** 1997 Jul 1; 80(1):91-7

A possible role for human papillomaviruses and c-myc, c-Ha-ras, and p53 gene alterations in malignant cutaneous lesions from renal transplant recipients. Pelisson I, et al. **Cancer Detect Prev** 1996;20(1):20-30

A prospective, seroepidemiological study of the role of human papillomavirus in esophageal cancer in Norway. Bjørge T, et al. **Cancer Res** 1997 Sep 15;57(18):3989-92

The role of papillomaviruses in human non-melanoma skin cancer. McGregor JM, et al. **Cancer Surv** 1996;26:219-36 (94 ref.)

Chromosomal abnormalities in HPV-16-immortalized oral epithelial cells. Oda D, et al. **Carcinogenesis** 1996 Sep; 17(9):2003-8

HHV-6 antigen and viral DNA detected in cervical cells from archived tissue using histochemical staining and hybridization. Yadav M, et al. **Clin Diagn Virol** 1996 Oct; 7(1):23-33

Detection of human papillomavirus DNA in laryngeal squamous cell carcinoma by polymerase chain reaction. Almadori G, et al. **Eur J Cancer** 1996 May;32A(5):783-8

Human papillomavirus 16 and 18 infection is absent in urinary bladder carcinomas. Lu QL, et al. **Eur Urol** 1997; 31(4):428-32

Squamous cell carcinoma of the endometrium with human papillomavirus type 31 and without tumor suppressor gene p53 mutation. Kataoka A, et al. **Gynecol Oncol** 1997 Apr; 65(1):180-4

Papillary squamous cell carcinoma of the uterine cervix: report of a case with HPV 16 DNA and brief review. Ollayos CW, et al. **Gynecol Oncol** 1996 Dec;63(3):388-91 (20 ref.)

Squamous metaplasia of the endometrium associated with HPV 6 and 11. Sherwood JB, et al. **Gynecol Oncol** 1997 Jul;66(1):141-5

Human papillomavirus-specific serologic response in vulvar neoplasia. Sun Y, et al. **Gynecol Oncol** 1996 Nov; 63(2):200-3

Occurrence of multiple lymphoepithelioma-like carcinomas and MALT-type lymphoma in the stomach: detection of EBV in carcinomas but not in lymphoma. Greiner A, et al. **Histopathology** 1996 Jul;29(1):51-6

Lymphoepithelioma-like salivary gland carcinoma in Taiwan: a clinicopathological study of nine cases demonstrating a strong association with Epstein-Barr virus. Kuo T, et al. **Histopathology** 1997 Jul;31(1):75-82 (22 ref.)

Presence of human papillomavirus in esophageal squamous cell carcinomas of Hong Kong Chinese and its relationship with p53 gene mutation. Lam KY, et al. **Hum Pathol** 1997 Jun;28(6):657-63

Lymphoepithelioma-like carcinoma of the thyroid gland: lack of evidence of association with Epstein-Barr virus.

Shek TW, et al. **Hum Pathol** 1996 Aug;27(8):851–3
Human papillomavirus types 52 and 58 are prevalent in cervical cancers from Chinese women. Huang S, et al. **Int J Cancer** 1997 Feb 7;70(4):408–11
Human papillomavirus type 16 DNA in esophageal carcinomas from Alaska Natives. Miller BA, et al. **Int J Cancer** 1997 Apr 10;71(2):218–22
p53 mutations in relation to human papillomavirus type 16 infection in squamous cell carcinomas of the head and neck. Scholes AG, et al. **Int J Cancer** 1997 May 29;71(5):796–9
High prevalence of human papillomavirus types 16 and 18 in middle-ear carcinomas. Tsai ST, et al. **Int J Cancer** 1997 Apr 10;71(2):208–12
Human papillomavirus DNA and antibodies to human papillomaviruses 16 E2, L2, and E7 peptides as predictors of survival in patients with squamous cell cervical cancer. Viladiu P, et al. **J Clin Oncol** 1997 Feb;15(2):610–9
Human papillomavirus DNA in squamous cell carcinoma of the lung. Hirayasu T, et al. **J Clin Pathol** 1996 Oct; 49(10):810–7
Detection of human papillomavirus DNA in squamous cell carcinomas of a patient with mycosis fungoides: report of a case. Liranzo MO, et al. **J Cutan Pathol** 1997 Jan; 24(1):47–50
Sequence variations and viral genomic state of human papillomavirus type 16 in penile carcinomas from Ugandan patients. Tornesello ML, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2199–208
The incidence and detection of HPV in the upper aerodigestive tract using brush and biopsy techniques. Vowles RH, et al. **J Laryngol Otol** 1997 Mar;111(3):215–7
Detection and typing of human papillomavirus in cervical cancer in the Thai. Bhattarakosol P, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S56–64
Genital papillomavirus in Greek women with high-grade cervical intraepithelial neoplasia and cervical carcinoma. Labropoulou V, et al. **J Med Virol** 1996 Jan;48(1):80–7
Absence of human papillomavirus-16 and -18 DNA and Epstein-Barr virus DNA in esophageal squamous cell carcinoma. Mizobuchi S, et al. **Jpn J Clin Oncol** 1997 Feb; 27(1):1–5
Squamous cell carcinoma of the endometrium with human papillomavirus type 31. Kataoka A, et al. **Kurume Med J** 1997;44(1):67–9
Lung squamous cell carcinoma presenting with brain metastases in an HIV-positive patient. Kosmopoulou O, et al. **Lung Cancer** 1996 Sep;15(2):245–9
Frequent association of human papillomavirus 16 and 18 DNA with anal squamous cell and basaloid carcinoma. Vincent-Salomon A, et al. **Mod Pathol** 1996 Jun; 9(6):614–20
Human papillomavirus and schistosomiasis associated bladder cancer. Cooper K, et al. **Mol Pathol** 1997 Jun;50(3):145–8
Absence of human papillomavirus genomic sequences detected by the polymerase chain reaction in oesophageal and gastric carcinomas in Japan. Saegusa M, et al. **Mol Pathol** 1997 Apr;50(2):101–4
Detection of human papillomavirus (HPV) type 6, 16 and 18 in head and neck squamous cell carcinomas by in situ hybridization. Cerovac Z, et al. **Neoplasma** 1996; 43(3):185–94
Human papillomavirus in squamous cell carcinoma of the vulva by polymerase chain reaction. Iwasawa A, et al. **Obstet Gynecol** 1997 Jan;89(1):81–4
The association of Epstein-Barr virus DNA with esophageal squamous cell carcinoma. Jenkins TD, et al. **Oncogene** 1996 Oct 17;13(8):1809–13
Prevalence of Epstein-Barr virus in oral squamous cell carcinomas, premalignant lesions and normal mucosa--a study using the polymerase chain reaction. Cruz I, et al. **Oral Oncol** 1997 May;33(3):182–8
Mutated and wild-type p53 expression and HPV integration in proliferative verrucous leukoplakia and oral squamous cell carcinoma. Gopalakrishnan R, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):471–7
Human papillomavirus expression in oral mucosa, premalignant conditions, and squamous cell carcinoma: a retrospective review of the literature [see comments] Miller CS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):57–68 (99 ref.). Comment in: Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Feb;83(2):187–8.
Beta 2-microglobulin and HLA-DR expression in relation to the presence of Epstein-Barr virus in nasopharyngeal carcinomas. Kouvidou C, et al. **Pathobiology** 1995; 63(6):320–7
Lymphoepithelioma-like carcinoma of the lung [see comments] Wöckel W, et al. **Pathol Res Pract** 1995 Nov; 191(11):1170–4 (20 ref.). Comment in: Pathol Res Pract 1995 Nov;191(11):1175–7.
Carcinoma of the lung: warts and all [editorial; comment] Markham AF. **Thorax** 1996 Sep;51(9):878–9. Comment on: Thorax 1996 Sep;51(9):887–93.
Presence of human papillomavirus DNA and abnormal p53 protein accumulation in lung carcinoma [see comments] Soini Y, et al. **Thorax** 1996 Sep;51(9):887–93. Comment in: Thorax 1996 Sep;51(9):878–9.
Detection of human papillomavirus DNA in primary squamous cell carcinoma of the male urethra. Cupp MR, et al. **Urology** 1996 Oct;48(4):551–5
[Human papillomavirus, human cytomegalovirus and p53 gene in cervical carcinoma] Zhao W, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):654–7 (Eng. Abstr.) **(Chi)**
[Study on the interrelationship between human papilloma virus infection and Langerhans cell in carcinogenesis of esophagus] Li J, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):83–5 (Eng. Abstr.) **(Chi)**
[Possible role of viral agents in the pathogenesis of squamous cell carcinomas of the head and neck] Dolcetti R, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):11–6 (80 ref.) **(Ita)**
[The presence of Human Papillomavirus (HPV) in microinvasive in situ spinocellular carcinoma of the oral cavity. Preliminary report] Mignogna MD, et al. **Minerva Stomatol** 1997 Jun;46(6):287–91 (Eng. Abstr.) **(Ita)**
[Detection of HPV-DNA in the various uterocervical lesion by the in situ polymerase chain reaction] Ishi K, et al. **Rinsho Byori** 1997 Jan;45(1):82–6 (Eng. Abstr.) **(Jpn)**
[Undifferentiated gastric carcinoma of lymphoepithelioma type with Epstein-Barr virus] Blasco J, et al. **Medicina (B Aires)** 1996;56(3):287–90 (Eng. Abstr.) **(Spa)**

CARCINOMA, THYMIC see **THYMOMA**

CARCINOMA, TRANSITIONAL CELL

Lymph-node revealing solution: a new method for detecting minute lymph nodes in cystectomy specimens. Koren R, et al. **Br J Urol** 1997 Jul;80(1):40–3
The accuracy of recording of occupational history in patients with bladder cancer. McCahy PJ, et al. **Br J Urol** 1997 Jan;79(1):91–3
Diagnosis and treatment of superficial transitional cell carcinoma of the bladder: facts and perspectives. Kurth KH. **Eur Urol** 1997;31 Suppl 1:10–9 (72 ref.)
Paraneoplastic polymyositis associated with transitional cell carcinoma of the bladder. Bouropoulos C, et al. **J Urol** 1997 Mar;157(3):950–1
Bladder cancer [editorial; comment] Droller MJ. **J Urol** 1997 Apr;157(4):1266–7. Comment on: J Urol 1997 Apr;157(4):1254–8; discussion 1258–9. Comment on: J Urol 1997 Apr;157(4):1260–4; discussion 1264–5.
Transitional cell carcinoma arising from a fibroepithelial ureteral polyp in a patient with duplicated upper urinary tract. Zervas A, et al. **J Urol** 1997 Jun;157(6):2252–3
Superficial bladder cancer: decreasing the risk of recurrence. Grossman HB. **Oncology (Huntingt)** 1996 Nov; 10(11):1617–24; discussion 1624, 1627–8 (59 ref.)
Large transitional cell carcinoma of the proximal third of the ureter in a young man. Ward DM, et al. **South Med J** 1997 Aug;90(8):855–7
Bladder cancer. Soloway MS. **Urology** 1996 Oct;48(4):631
[Interesting development of 4 cases of urothelial carcinoma of the upper urinary tract] Chwajol B, et al. **Rozhl Chir** 1996 Dec;75(12):594–8 (Eng. Abstr.) **(Cze)**
[Urinary bladder transitional cell carcinoma with trophoblastic differentiation] Moldavsky M, et al. **Harefuah** 1997 Apr 1;132(7):452–4, 528 (Eng. Abstr.) **(Heb)**
[Primary carcinoma of the female urethra: report of five cases] Touyama H, et al. **Hinyokika Kiyo** 1997 Apr; 43(4):303–5 (Eng. Abstr.) **(Jpn)**
[Clinical evaluation of grade 3 superficial bladder cancer] Shinohara M, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Jun;87(6):892–9 (Eng. Abstr.) **(Jpn)**
[Renal pelvic tumor (transitional cell carcinoma, squamous cell carcinoma, adenocarcinoma, etc.)] Matsuki K, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):466–70 (15 ref.) **(Jpn)**
[Bladder urothelial carcinoma in patients under 10 years of age: report of 2 new cases] Muñoz-Delgado Salmerón J, et al. **Actas Urol Esp** 1997 Jan;21(1):57–9 (14 ref.) (Eng. Abstr.) **(Spa)**
[Transitional tumor of the bladder in an teenager. Preliminary note] Pellicé i Vilalta C Jr, et al. **Actas Urol Esp** 1997 Jan; 21(1):49–51 (13 ref.) (Eng. Abstr.) **(Spa)**
[Prognosis prediction in patients with transitional cell carcinoma of the urinary bladder] Angulo Cuesta J, et al. **Arch Esp Urol** 1996 May;49(4):374–84 (Eng. Abstr.) **(Spa)**
[Inverted carcinoma of kidney pelvis coexisting with transitional cell carcinoma of the bladder. A therapeutic alternative] Díaz Calleja E, et al. **Arch Esp Urol** 1997 Mar; 50(2):189–92 (9 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Plasma mitomycin C concentrations determined by HPLC coupled to solid-phase extraction. Paroni R, et al. **Clin Chem** 1997 Apr;43(4):615–8

BLOOD SUPPLY

Prognostic significance of angiogenesis in transitional cell carcinoma of the human urinary bladder [letter; comment] Dickinson AJ. **Br J Urol** 1996 Nov;78(5):808. Comment on: Br J Urol 1996 Mar;77(3):352–7.
Thrombospondin-1 expression in bladder cancer: association with p53 alterations, tumor angiogenesis, and tumor progression. Grossfeld GD, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):219–27
Expression of platelet-derived growth-factor B-chain mRNA and tumor angiogenesis in invasive transitional cell carcinoma of the upper urinary tract. Nakanishi K, et al. **Mod Pathol** 1997 Apr;10(4):341–7

CEREBROSPINAL FLUID

Transitional-cell carcinoma metastatic to cerebrospinal fluid: presentation of two cases. Stastny JF, et al. **Diagn Cytopathol** 1996 Nov;15(4):338–40

CHEMICALLY INDUCED

Lack of involvement of p53 gene mutations in N-methyl-N-nitrosourea-induced bladder tumor progression in N-butyl-N-(4-hydroxybutyl)nitrosamine-treated rats and no suppression by indomethacin. Ozaki M, et al. **Cancer Lett** 1997 May 19;115(2):249–55
Cyclophosphamide associated bladder cancer--a highly aggressive disease: analysis of 12 cases. Fernandes ET, et al. **J Urol** 1996 Dec;156(6):1931–3

CHEMISTRY

Perianal basal cell carcinoma: a comparative histologic, immunohistochemical, and flow cystometric study with basaloid carcinoma of the anus. Alvarez-Cañas MC, et al. **Am J Dermatopathol** 1996 Aug;18(4):371–9
Molecular profile of advanced-stage transitional cell carcinoma of the ovary. Gershenson DM, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):120–5
DNA content and proliferation activity in superficial transitional cell carcinoma of the bladder. Pantazopoulos D, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):781–6
Significance of cyclin D1 overexpression in transitional cell carcinomas of the urinary bladder and its correlation with histopathologic features. Lee CC, et al. **Cancer** 1997 Feb 15;79(4):780–9
Immunohistochemical analysis of proliferating cell nuclear antigen, p53 protein and nm23 protein, and nuclear DNA content in transitional cell carcinoma of the bladder. Shiina H, et al. **Cancer** 1996 Oct 15;78(8):1762–74
Cripto expression in human urological tumors. Okajima E, et al. **Cancer Lett** 1997 Jan 1;111(1-2):67–70
Expression of the apoptosis suppressing bcl-2 protein in transitional cell bladder tumours. Lipponen PK, et al. **Histopathology** 1996 Feb;28(2):135–40
Immunohistochemical evaluation of p53 oncoprotein in transitional cell carcinoma of the upper urinary tract. Nakanishi K, et al. **Hum Pathol** 1996 Dec;27(12):1336–40
Thrombospondin-1 expression in bladder cancer: association with p53 alterations, tumor angiogenesis, and tumor progression. Grossfeld GD, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):219–27
Prognostic value of Ki-67 for recurrence and progression of superficial bladder cancer. Asakura T, et al. **J Urol** 1997 Aug;158(2):385–8
Determination of interferon-alpha receptors in urothelial cancer and in normal urothelium [see comments] Giannopoulos A, et al. **J Urol** 1997 Jan;157(1):79–82. Comment in: J Urol 1997 Jan;157(1):83–4.
Urinary and tissue levels of scatter factor in transitional cell carcinoma of bladder [see comments] Rosen EM, et al. **J Urol** 1997 Jan;157(1):72–8. Comment in: J Urol 1997 Jan;157(1):83–4.
Expression patterns of erbB receptor family in normal urothelium and transitional cell carcinoma. An immunohistochemical study. Chow NH, et al. **Virchows Arch** 1997 Jun;430(6):461–6
[New quantitative method for determining p53 protein in bladder carcinomas] Moreno Sierra J, et al. **Arch Esp Urol** 1997 May;50(4):347–53 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

Reporting urinary bladder specimens containing bladder neoplasms [letter; comment] Koss LG. **Hum Pathol** 1997 Mar;28(3):389. Comment on: Hum Pathol 1996 Aug;27(8):751–3.

COMPLICATIONS

Bladder cancer within an inguinoscrotal bladder hernia [letter] Dario Casas J, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1194–5
Inclusion body myositis and transitional cell carcinoma of the bladder: significant resolution of symptoms after tumor excision. Jensen ML, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):327–9 (17 ref.)
Linear IgA disease in a patient with bladder carcinoma. Ródenas JM, et al. **Br J Dermatol** 1997 Feb;136(2):257–9 (26 ref.)
Asymptomatic multiple myeloma with concomitant neoplasms of two different origins. Take H, et al. **J Med** 1996;27(3-4):228–32
Symptomatic hypocalcemia after intravenous pamidronate. McIntyre E, et al. **J Palliat Care** 1996 Spring;12(1):46–7
Transitional cell carcinoma of the bladder in an HIV-infected patient. Al Soub H. **Postgrad Med J** 1996 May; 72(847):302–4
Bladder cancer complicated with priapism. A case report. Kvarstein B. **Scand J Urol Nephrol Suppl** 1996;179:155–6

Bladder tumor presenting as an interlabial mass. Biyani CS, et al. **Urol Int** 1997;58(1):64–5

Synchronous bilateral carcinoma of the ureter in association with unilateral incomplete duplication of the ureter. Tan LB, et al. **Urol Int** 1996;56(3):196–9 (22 ref.)

Xanthogranulomatous pyelonephritis associated with transitional cell carcinoma of the renal pelvis. Val-Bernal JF, et al. **Urol Int** 1996;57(4):240–5 (34 ref.)

[Transitional carcinoma of the ureter and urinary tuberculosis] Cardini S, et al. **Minerva Urol Nefrol** 1997 Mar;49(1):33–7 (24 ref.) (Eng. Abstr.) **(Ita)**

[Spontaneous rupture of renal parenchyma caused by renal pelvic and ureteral cancer: a case report] Igarashi H, et al. **Hinyokika Kiyo** 1996 Aug;42(8):591–4 (Eng. Abstr.) **(Jpn)**

[Bladder carcinoma presenting with hypercalcemia: a case report] Maeda Y, et al. **Hinyokika Kiyo** 1997 Feb; 43(2):137–40 (Eng. Abstr.) **(Jpn)**

[A case of renal pelvic cancer associated with giant hydronephrosis of a horseshoe kidney] Tsuru N, et al. **Hinyokika Kiyo** 1997 Mar;43(3):223–6 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Unusual association of transitional cell carcinoma in the upper urinary tract, with contralateral renal metastasis and renal lithiasis of long clinical course] Cuesta Presedo JM, et al. **Actas Urol Esp** 1997 Jan;21(1):60–3 (15 ref.) (Eng. Abstr.) **(Spa)**

[Hematuria and pleural effusion: are they manifestations of the same entity? (letter)] Ortiz de Saracho y Bobo J, et al. **An Med Interna** 1997 Mar;14(3):154–5 **(Spa)**

DIAGNOSIS

Immunocytochemical diagnosis of Bellini duct carcinoma [letter] Arai T, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1241–2

Endoscopic brush cytology of the upper urinary tract. Evaluation of its efficacy and potential limitations in diagnosis. Dodd LG, et al. **Acta Cytol** 1997 Mar–Apr; 41(2):377–84 (45 ref.)

Papillary transitional cell carcinoma arising in a calyceal cyst and masquerading as a renal cyst. Mai KT, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):879–82

Cytokeratin 20 as an objective marker of urothelial dysplasia. Harnden P, et al. **Br J Urol** 1996 Dec;78(6):870–5

Transitional cell carcinoma of the bladder producing granulocyte colony-stimulating factor: a case report of molecular diagnosis. Nemoto R, et al. **Br J Urol** 1996 Oct; 78(4):653–4

Can hematuria be a predictor as well as a symptom or sign of bladder cancer? Friedman GD, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):993–6

MR imaging of carcinoma within urinary bladder diverticulum. Durfee SM, et al. **Clin Imaging** 1997 Jul–Aug; 21(4):290–2

Needle aspiration cytology of low-grade transitional cell carcinoma of the renal pelvis. Nguyen GK, et al. **Diagn Cytopathol** 1997 May;16(5):437–41

Cytopathology of retrograde renal pelvis brush specimens: an analysis of 40 cases with emphasis on collecting duct carcinoma and low-intermediate grade transitional cell carcinoma. Zaman SS, et al. **Diagn Cytopathol** 1996 Nov; 15(4):312–21

Recurrent transitional cell carcinoma arising within an ileal conduit following cystectomy. A case report and review of the literature. Carter A, et al. **Eur Urol** 1996;30(4):519–20 (11 ref.)

A case of renal cell carcinoma associated with synchronous contralateral renal pelvic cancer and bladder tumor. Ando M, et al. **Int J Urol** 1996 Jul;3(4):310–2 (8 ref.)

The efficacy of urinary cytology in the detection of recurrent bladder tumours. Baltaci S, et al. **Int Urol Nephrol** 1996; 28(5):649–53

Tumour in a giant bladder diverticulum: a case report and review of literature. Shah B, et al. **Int Urol Nephrol** 1997; 29(2):173–9 (49 ref.)

Polyomavirus mimicking high grade transitional cell carcinoma. Seftel AD, et al. **J Urol** 1996 Nov;156(5):1764

Clinical evaluation of a method for detecting superficial surgical transitional cell carcinoma of the bladder by light-induced fluorescence of protoporphyrin IX following the topical application of 5-aminolevulinic acid: preliminary results. Jichlinski P, et al. **Lasers Surg Med** 1997;20(4):402–8

Two potential clinical applications of the alkaline single-cell gel electrophoresis assay: (1). Human bladder washings and transitional cell carcinoma of the bladder; and (2). Human sperm and male infertility. McKelvey-Martin VJ, et al. **Mutat Res** 1997 Apr 29;375(2):93–104

Renal pelvic and ureteral carcinoma with huge hydronephrosis: US, CT, and MR findings. Kanematsu M, et al. **Radiat Med** 1996 Nov–Dec;14(6):321–3

Anal carcinoma: a 14 year experience. Gallén M, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):23–8 **(Eng, Spa)**

Nephrotic syndrome associated with transitional cell carcinoma of urinary bladder. Reshi AR, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):295–6

Carcinoma of the bladder in patients under 25 years of age. Yusim I, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):461–3

Diagnosis and treatment of superficial bladder cancer: an update. Crawford ED. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):1–9 (70 ref.)

Simultaneous occurrence of urothelial bladder carcinoma and primary retroperitoneal leiomyosarcoma. Herrmann U, et al. **Urol Int** 1997;58(4):252–3

Limitations of ureteroscopy in diagnosis of invasive upper tract urothelial cancer. Igawa M, et al. **Urol Int** 1996; 56(1):13–5

Clinical assessment of fluorescence cytoscopy during transurethral bladder resection in superficial bladder cancer. Jichlinski P, et al. **Urol Res** 1997;25 Suppl 1:S3–6

Expression of CD44V2 in transitional cell carcinoma of the urinary bladder and in urine. Müller M, et al. **Urol Res** 1997;25(3):187–92

Results of Bard BTA test in monitoring patients with a history of transitional cell cancer of the bladder. Ianari A, et al. **Urology** 1997 May;49(5):786–9

The use of the BTA Test in the detection of persistent or recurrent transitional-cell cancer of the bladder. Sarosdy MF. **World J Urol** 1997;15(2):103–6 (12 ref.)

The role of nuclear matrix protein 22 in the detection of persistent or recurrent transitional-cell cancer of the bladder. Shelfo SW, et al. **World J Urol** 1997;15(2):107–11 (25 ref.)

[The clinical value of fluorescence cystoscopy in the detection of superficial transitional epithelial cell carcinoma of the bladder] Jichlinski P, et al. **Ann Urol (Paris)** 1997; 31(1):43–8 (Eng. Abstr.) **(Fre)**

[Bladder tumors] Egli U. **Ther Umsch** 1996 Sep;53(9):697–701 (Eng. Abstr.) **(Ger)**

[Determining the depth of infiltration in urinary bladder carcinoma with contrast medium enhanced dynamic magnetic resonance tomography. With reference to postoperative findings and inflammation] Venz S, et al. **Urologe A** 1996 Jul;35(4):297–304 (Eng. Abstr.) **(Ger)**

[Evaluation of urinary NMP22 (nuclear matrix protein 22) as a diagnostic marker for urothelial cancer--NMP22 as a urinary marker for surveillance of bladder cancer. NMP22 Study Group] Akaza H, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):829–36 (Eng. Abstr.) **(Jpn)**

[Evaluation of urinary NMP22 (nuclear matrix protein 22) as a diagnostic marker for urothelial cancer--screening for urothelial cancer in patients with microscopic hematuria. NMP Study Group] Akaza H, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):837–42 (Eng. Abstr.) **(Jpn)**

[Determination of urinary CA19-9 levels in urothelial cancer--assessment of its role in diagnosis (published erratum appears in Nippon Hinyokika Gakkai Zasshi 1997 Apr;88(4):511)] Noto K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):406–13 (Eng. Abstr.) **(Jpn)**

[Image cytometric DNA analysis in bladder tumors] Yamamoto S, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1026–31 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Transarterial infusion of cisplatin and doxorubicin in bladder cancer. Mokarim A, et al. **Acta Oncol** 1997;36(2):175–81

Continuous-infusion 5-fluorouracil and cisplatin for advanced/recurrent transitional cell cancer of the bladder: a Southwest Oncology Group trial. Kish JA, et al. **Am J Clin Oncol** 1997 Aug;20(4):327–30

A phase II trial of cisplatin and interferon alpha 2b in patients with advanced bladder cancer. Parnis FX, et al. **Am J Clin Oncol** 1997 Jun;20(3):319–21

Efficacy of the platinum analog [Pt(cis-dach)(DPPE)-2NO3] on histocultured human patient bladder tumors and cancer cell lines. Chang SG, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3423–8

Effects of ibuprofen on the in vitro invasiveness of a human transitional cell carcinoma. Cook GP, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):365–8

Effect of photodynamic therapy in combination with mitomycin C on a mitomycin-resistant bladder cancer cell line. Datta SN, et al. **Br J Cancer** 1997;76(3):312–7

Survival of patients with advanced urothelial cancer treated with cisplatin-based chemotherapy. Fosså SD, et al. **Br J Cancer** 1996 Nov;74(10):1655–9

Role of reactive oxygen species in cis-dichlorodiammineplatinum-induced cytotoxicity on bladder cancer cells. Miyajima A, et al. **Br J Cancer** 1997; 76(2):206–10

Phase II study of paclitaxel in pretreated patients with locally advanced/metastatic cancer of the bladder and ureter. Papamichael D, et al. **Br J Cancer** 1997;75(4):606–7

Photodynamic therapy of bladder cancer cell lines. Datta SN, et al. **Br J Urol** 1997 Sep;80(3):421–6

Combined chemotherapy and radiation with selective organ preservation for muscle-invasive bladder carcinoma. A single-institution phase II study. Fellin G, et al. **Br J Urol** 1997 Jul;80(1):44–9

Vinblastine, ifosfamide, and gallium nitrate--an active new regimen in patients with advanced carcinoma of the urothelium. A phase II trial of the Eastern Cooperative Oncology Group (E5892). Dreicer R, et al. **Cancer** 1997 Jan 1;79(1):110–4

A carboplatin-based regimen for the treatment of patients with advanced transitional cell carcinoma of the urothelium. Small EJ, et al. **Cancer** 1996 Oct 15; 78(8):1775–80

Electropermeabilization in bladder cancer chemotherapy. Kubota Y, et al. **Cancer Chemother Pharmacol** 1996; 39(1-2):67–70

Impact of recombinant human granulocyte colony stimulating factor on dose intensity and toxicity of three cycles of methotrexate, vinblastine, doxorubicin and cisplatin in patients with previously untreated urothelial bladder carcinoma. Viens P, et al. **Eur Cytokine Netw** 1996 Sep;7(3):395–9

Neoadjuvant chemotherapy (MVAC) in locally invasive bladder cancer. Sagaster P, et al. **Eur J Cancer** 1996 Jul; 32A(8):1320–4

Chemoresection in Ta-T1 bladder cancer. Members of the EORTC Genito-Urinary Group. Bono AV, et al. **Eur Urol** 1996;29(4):385–90

Long-term follow-up of cytostatic intravesical instillation in patients with superficial bladder carcinoma. Is short-term, intensive instillation better than maintenance therapy? Schwaibold H, et al. **Eur Urol** 1997;31(2):153–9

Cytophotometry in the monitoring of bladder cancer under intravesical chemotherapy. Simak R, et al. **Eur Urol** 1996; 29(4):391–8

Chemotherapy with methotrexate, vinblastine, epirubicin and carboplatin (Carbo-MVE) in transitional cell urothelial cancer. A Hellenic Co-Operative Oncology Group study. Skarlos DV, et al. **Eur Urol** 1997;31(4):420–7

Toxicity and results of MVAC (methotrexate, vinblastine, adriamycin and cisplatin) chemotherapy in advanced urothelial carcinoma. Witjes JA, et al. **Eur Urol** 1997; 31(4):414–9

M-VAC (methotrexate, vinblastine, doxorubicin and cisplatin) for poor prognosis patients with urothelial tumors and effect of dose intensity. Hibi H, et al. **Hinyokika Kiyo** 1997 Feb;43(2):89–96

Significance of the preoperative intravesical instillation of doxorubicin and the oral administration of 5-fluorouracil in preventing recurrence after a transurethral resection of superficial bladder cancer. Kyushu University Urological Oncology Group. Naito S, et al. **Int J Urol** 1997 Jul; 4(4):352–7

Phase II trial of oral piritrexim in advanced, previously treated transitional cell cancer of bladder. Khorsand M, et al. **Invest New Drugs** 1997;15(2):157–63

Phase II trial of docetaxel in patients with advanced or metastatic transitional-cell carcinoma. McCaffrey JA, et al. **J Clin Oncol** 1997 May;15(5):1853–7

Phase II randomized trial of gallium nitrate plus fluorouracil versus methotrexate, vinblastine, doxorubicin, and cisplatin in patients with advanced transitional-cell carcinoma. McCaffrey JA, et al. **J Clin Oncol** 1997 Jun;15(6):2449–55

Long-term follow-up of a phase III intergroup study of cisplatin alone or in combination with methotrexate, vinblastine, and doxorubicin in patients with metastatic urothelial carcinoma: a cooperative group study. Saxman SB, et al. **J Clin Oncol** 1997 Jul;15(7):2564–9

Eastern Cooperative Oncology Group phase II trial of ifosfamide in the treatment of previously treated advanced urothelial carcinoma. Witte RS, et al. **J Clin Oncol** 1997 Feb;15(2):589–93

Combined chemotherapy and irradiation for transitional cell cancer of the bladder: a review. Beuzeboc P, et al. **J Infus Chemother** 1995 Fall;5(4):218–20 (22 ref.)

Intravesical therapy with vinorelbine tartrate: antitumor activity in orthotopic murine cell carcinoma of the bladder. Bonfil RD, et al. **J Urol** 1997 Sep;158(3 Pt 1):912–5

Concurrent cisplatin and radiotherapy for patients with muscle invasive bladder cancer who are not candidates for radical cystectomy. Chauvet B, et al. **J Urol** 1996 Oct; 156(4):1258–62

Paclitaxel in advanced urothelial carcinoma: its role in patients with renal insufficiency and as salvage therapy. Dreicer R, et al. **J Urol** 1996 Nov;156(5):1606–8. 1996 Nov;156(6):1609–10.

Adjuvant chemotherapy for superficial transitional cell bladder carcinoma: long-term results of a European Organization for Research and Treatment of Cancer randomized trial comparing doxorubicin, ethoglucid and transurethral resection alone. Kurth K, et al. **J Urol** 1997 Aug;158(2):378–84

Cisplatin, ifosfamide, methotrexate and vinblastine combination chemotherapy for metastatic urothelial cancer. Kyriakakis Z, et al. **J Urol** 1997 Aug;158(2):408–11

Platinum-based chemotherapy for advanced transitional cell carcinoma of the upper urinary tract. Lerner SE, et al. **Mayo Clin Proc** 1996 Oct;71(10):945–50

p53 and treatment of bladder cancer [letter; comment] Cote RJ, et al. **Nature** 1997 Jan 9;385(6612):123–5. Comment on: Nature 1996 Jun 20;381(6584):713–6.

Different pH dependency of mitomycin C activity in monolayer and three-dimensional cultures. Yen WC, et al. **Pharm Res** 1996 Dec;13(12):1887–91

Systemic chemotherapy of transitional cell carcinoma of the urothelium. Brinkley WM, et al. **Semin Surg Oncol** 1997 Sep-Oct;13(5):365–75 (112 ref.)

Nursing implications in the management of superficial bladder cancer. Games J. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):36–40 (27 ref.)

Intravesical chemotherapy for superficial bladder tumors category Ta/T1: who should be treated and how? Kurth KH. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):30–5 (7 ref.)

Update on the Dutch Cooperative Trial: mitomycin versus bacillus Calmette-Guérin-Tice versus bacillus Calmette-Guérin RIVM in the treatment of patients with pTA-pT1 papillary carcinoma and carcinoma in situ of the urinary bladder. Dutch South East Cooperative Urological Group. Witjes WP, et al. **Semin Urol Oncol** 1996

Feb;14(1 Suppl 1):10–6

A new regimen of cisplatin, epirubicin and methotrexate (PEM–3) as primary chemotherapy for locally advanced bladder cancer. Cacciari N, et al. **Tumori** 1996 Jul–Aug; 82(4):364–8

First–line chemotherapy with cisplatin, methotrexate and vinblastine in metastatic bladder cancer. Pajk B, et al. **Tumori** 1996 Sep–Oct;82(5):453–5

Neoadjuvant CMV chemotherapy plus radical cystectomy in locally advanced bladder cancer: the impact of pathologic response on long–term results. Scattoni V, et al. **Tumori** 1996 Sep–Oct;82(5):463–9

Initial report on intravesical administration of N–trifluoroacetyladriamycin–14–valerate (AD 32) to patients with refractory superficial transitional cell carcinoma of the urinary bladder. Greenberg RE, et al. **Urology** 1997 Mar;49(3):471–5

Radical cystectomy with or without adjuvant polychemotherapy for non–organ–confined transitional cell carcinoma of the urinary bladder: prognostic impact of lymph node involvement. Stöckle M, et al. **Urology** 1996 Dec;48(6):868–75

Phase I trial of photodynamic therapy in the treatment of recurrent superficial transitional cell carcinoma of the bladder. Walther MM, et al. **Urology** 1997 Aug; 50(2):199–206

Current concepts in the role of intravesical instillations in the therapy and prophylaxis of superficial transitional–cell cancer of the bladder. The Finnbladder Research Group. Alfthan O, et al. **World J Urol** 1997;15(2):89–95 (64 ref.)

Intravesical suramin: a novel agent for the treatment of superficial transitional–cell carcinoma of the bladder. Walther MM, et al. **World J Urol** 1996;14 Suppl 1:S8–11 (31 ref.)

[Therapy with mitomycin C, folic acid and 5–fluorouracil in treatment of metastatic, refractory urinary bladder carcinoma––phase II study] Otto T, et al. **Urologe A** 1997 May;36(3):243–7 (Eng. Abstr.) **(Ger)**

[Outcome of simultaneous radiochemotherapy of anal carcinoma] Fraunholz IB, et al. **Zentralbl Chir** 1997; 122(1):39–43 (Eng. Abstr.) **(Ger)**

[The effectiveness of neoadjuvant chemotherapy for invasive bladder cancer] Nishisaka N, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Nov;87(11):1250–7 (Eng. Abstr.) **(Jpn)**

[Systemic chemotherapy with cisplatin, methotrexate, and vinblastine, and bladder preservation in T2/T3a bladder cancer] Angulo Cuesta J, et al. **Actas Urol Esp** 1997 Jan; 21(1):28–33 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Telomerase activity in human urothelial tumors [see comments] Kyo S, et al. **Am J Clin Pathol** 1997 May; 107(5):555–60. Comment in: Am J Clin Pathol 1997 May;107(5):505.

Detection of telomerase activity in exfoliated cells in urine from patients with bladder cancer. Kinoshita H, et al. **J Natl Cancer Inst** 1997 May 21;89(10):724–30

Glutathione S–transferase activity and subunit composition in transitional cell cancer and mucosa of the human bladder. Berendsen CL, et al. **Urology** 1997 Apr;49(4):644–51

EPIDEMIOLOGY

The accuracy of recording of occupational history in patients with bladder cancer [letter] Probert JL, et al. **Br J Urol** 1997 Sep;80(3):512

The National Cancer Data Base report on bladder carcinoma. The American College of Surgeons Commission on Cancer and the American Cancer Society. Fleshner NE, et al. **Cancer** 1996 Oct 1;78(7):1505–13

Glutathione S–transferase M1 genotypes and the risk of anal cancer: a population–based case–control study. Chen C, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec; 5(12):985–91

[Clinical study of occupational uroepithelial cancer] Hamasaki T, et al. **Sangyo Ika Daigaku Zasshi** 1996 Dec 1;18(4):247–59 (Eng. Abstr.) **(Jpn)**

[Upper urinary tract and urethral tumors in patients with bladder carcinoma] Angulo J, et al. **Arch Esp Urol** 1997 Mar;50(2):115–20 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Metachronous transitional cell carcinoma and tubulointerstitial nephritis after chronic ingestion of antacids: a novel disease association [letter] Vella JP, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2367–8

Transitional cell carcinoma of the ureteral stump 13 years after nephrectomy for benign disease. Manganelli A, et al. **Urol Int** 1996;56(1):52–4 (17 ref.)

Recurrences and progression of superficial bladder cancer following long–term intravesical prophylactic therapy with mitomycin C: 48–month follow–up. Minervini R, et al. **Urol Int** 1996;56(4):234–7

Radiation–induced urothelial carcinoma. Saito M, et al. **Urol Int** 1996;56(4):254–5

[Bladder cancer in patients with spinal cord injury: report of two cases] Sugimoto K, et al. **Hinyokika Kiyo** 1997 May; 43(5):359–62 (22 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

DNA content and proliferation activity in superficial transitional cell carcinoma of the bladder. Pantazopoulos D, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):781–6

Differential expression of ferritin heavy chain in a rat transitional cell carcinoma progression model. Vet JA, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):39–44

Expression of transforming growth factors beta–1, beta 2 and beta 3 in human bladder carcinomas. Eder IE, et al. **Br J Cancer** 1997;75(12):1753–60

Overexpression of cyclin D1 correlates with early recurrence in superficial bladder cancers. Shin KY, et al. **Br J Cancer** 1997;75(12):1788–92

Genomic heterogeneity in bladder cancer as detected by fluorescence in situ hybridization. Yokogi H, et al. **Br J Urol** 1996 Nov;78(5):699–703

A hot spot for p53 mutation in transitional cell carcinoma of the bladder: clues to the etiology of bladder cancer. Xu X, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug; 6(8):611–6

Mutation analysis of 8p genes POLB and PPP2CB in bladder cancer. Eydmann ME, et al. **Cancer Genet Cytogenet** 1997 Feb;93(2):167–71

p53 gene mutation in N–butyl–N–(4–hydroxybutyl)nitrosamine–induced urinary bladder tumors and N–methyl–N–nitrosourea–induced colon tumors of rats. Min H, et al. **Cancer Lett** 1997 Jul 15;117(1):81–6

Lack of involvement of p53 gene mutations in N–methyl–N–nitrosourea–induced bladder tumor progression in N–butyl–N–(4–hydroxybutyl)nitrosamine–treated rats and no suppression by indomethacin. Ozaki M, et al. **Cancer Lett** 1997 May 19;115(2):249–55

Evidence for two tumor suppressor loci associated with proximal chromosome 9p to q and distal chromosome 9q in bladder cancer and the initial screening for GAS1 and PTC mutations. Simoneau AR, et al. **Cancer Res** 1996 Nov 1;56(21):5039–43

Reversion of uroepithelial cell tumorigenesis by the ectopic expression of human wnt–5a. Olson DJ, et al. **Cell Growth Differ** 1997 Apr;8(4):417–23

Bladder cancer. Ozen H. **Curr Opin Oncol** 1996 May; 8(3):259–63 (20 ref.)

Glutathione S–transferase and multidrug–resistant phenotype in transitional cell carcinoma of the bladder. Akdaş A, et al. **Eur Urol** 1996;29(4):483–6

Evaluation of c–ras oncogene product (p21) in superficial bladder cancer. Fontana D, et al. **Eur Urol** 1996;29(4):470–6

Abnormal c–myc oncogene DNA methylation in human bladder cancer: possible role in tumor progression. Sardi I, et al. **Eur Urol** 1997;31(2):224–30

Relationship of genetic instability with immunoreactivities for p53 protein and proliferating cell nuclear antigen in transitional cell carcinoma of the bladder. Shiina H, et al. **Eur Urol** 1996;30(1):80–8

p53 and c–jun expression in urinary bladder transitional cell carcinoma: correlation with proliferating cell nuclear antigen (PCNA) histological grade and clinical stage. Skopelitou A, et al. **Eur Urol** 1997;31(4):464–71

DNA–aneuploidy as marker for neoplasia in G1–urothelial carcinomas. Planz B, et al. **Gen Diagn Pathol** 1996 Oct; 142(2):69–73

A novel candidate tumour suppressor locus at 9q32–33 in bladder cancer: localization of the candidate region within a single 840 kb YAC. Habuchi T, et al. **Hum Mol Genet** 1997 Jun;6(6):913–9

Deletion analysis at the DEL–27, APC and MTS1 loci in bladder cancer: LOH at the DEL–27 locus on 5p13–12 is a prognostic marker of tumor progression. Böhm M, et al. **Int J Cancer** 1997 Jun 20;74(3):291–5

Expression of the multidrug resistance–associated protein (MRP) gene in urothelial carcinomas. Kubo H, et al. **Int J Cancer** 1996 Dec 20;69(6):488–94

Screening of H–ras gene point mutations in 50 cases of bladder carcinoma. Saito S, et al. **Int J Urol** 1997 Mar; 4(2):178–85

Predictive value of argyrophilic nucleolar–organizer–region–associated proteins in bladder cancer, using cell–imprint preparations. Masuda M, et al. **J Cancer Res Clin Oncol** 1997;123(1):1–5

Deletions of 9p21 and TP53 in bladder cancer. Park WS, et al. **J Korean Med Sci** 1996 Jun;11(3):233–8

Clonal analysis of human recurrent superficial bladder cancer by immunohistochemistry of P53 and retinoblastoma proteins. Chern HD, et al. **J Urol** 1996 Nov;156(5):1846–9

Apoptosis in transitional cell carcinoma of the renal pelvis and ureter: association with proliferative activity, bcl–2 expression and prognosis. Masuda M, et al. **J Urol** 1997 Sep;158(3 Pt 1):750–3

Deoxyribonucleic acid ploidy and the clinical pattern of grade 2 superficial bladder cancer [see comments] Neulander E, et al. **J Urol** 1997 Apr;157(4):1254–8; discussion 1258–9. Comment in: J Urol 1997 Apr;157(4):1266–7.

Detection of c–erbB–2 amplification in transitional cell bladder carcinoma using competitive PCR technique. Orlando C, et al. **J Urol** 1996 Dec;156(6):2089–93

Fluorescence in situ hybridization identifies more aggressive types of primarily noninvasive (stage pTa) bladder cancer. Pycha A, et al. **J Urol** 1997 Jun;157(6):2116–9

Deoxyribonucleic acid ploidy enhances the cytological prediction of recurrent transitional cell carcinoma of the bladder. Slaton JW, et al. **J Urol** 1997 Sep;158(3 Pt 1):806–11

p53 mutations in multiple urothelial carcinomas: a molecular analysis of the development of multiple carcinomas. Goto K, et al. **Mod Pathol** 1997 May;10(5):428–37

p53 and treatment of bladder cancer [letter; comment] Cote RJ, et al. **Nature** 1997 Jan 9;385(6612):123–5. Comment on: Nature 1996 Jun 20;381(6584):713–6.

Frequent loss of heterozygosity on chromosome 10q in muscle–invasive transitional cell carcinomas of the bladder. Cappellen D, et al. **Oncogene** 1997 Jun 26;14(25):3059–66

Superimposed histologic and genetic mapping of chromosome 17 alterations in human urinary bladder neoplasia. Chaturvedi V, et al. **Oncogene** 1997 May 1; 14(17):2059–70

Novel p21WAF1/CIP1 mutations in superficial and invasive transitional cell carcinomas. Malkowicz SB, et al. **Oncogene** 1996 Nov 7;13(9):1831–7

Predictive value of DNA ploidy in bladder cancer treated with preoperative radiation therapy and cystectomy. Granfors T, et al. **Scand J Urol Nephrol** 1996 Aug; 30(4):281–5

Enhanced gene expression of transforming growth factor–alpha and c–met in rat urinary bladder cancer. Inui M, et al. **Urol Res** 1996;24(1):55–60

DNA aberrations in urinary bladder cancer detected by flow cytometry and FISH. Sauter G, et al. **Urol Res** 1997;25 Suppl 1:S37–43

Significance of p53 overexpression in urinary bladder transitional cell carcinoma in situ before and after bacillus Calmette–Guérin treatment. Ick K, et al. **Urology** 1997 Apr; 49(4):541–6; discussion 546–7

[Overexpression of C–erbB3 in transitional cell carcinoma of the ovary] Shen K, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):658–61 (Eng. Abstr.) **(Chi)**

[Detection and clinical pathological significance of the expression of P21, P185, p53 proteins and mutation of ras, p53 genes in transitional cell carcinoma of the bladder] Yu D, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):202–5 (Eng. Abstr.) **(Chi)**

[The study of p53 gene mutation in human bladder cancer] Ding Q, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov; 33(11):684–6 (Eng. Abstr.) **(Chi)**

[Clinical relevance of acetylator phenotyping in 196 urothelial tumor patients] Schöps W, et al. **Urologe A** 1997 Jan;36(1):64–7 (Eng. Abstr.) **(Ger)**

[Gene p53 mutation and prognosis in bladder tumors] Polito M, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:65–8 (Eng. Abstr.) **(Ita)**

[Chromosomal numerical aberrations in bladder cancer detected by fluorescence in situ hybridization (FISH)] Inoue T. **Nippon Hinyokika Gakkai Zasshi** 1996 Sep; 87(9):1092–8 (Eng. Abstr.) **(Jpn)**

HISTORY

Summary of transitional cell carcinoma of the urethra in men having cystectomy for bladder cancer (by Paul F. Schellhammer, MD, and Willet F. Whitmore, Jr, MD). 1976. Schellhammer PF, et al. **Semin Urol Oncol** 1997 May; 15(2):99–104

IMMUNOLOGY

Luminal epithelial antigen (LEA.135) expression correlates with tumor progression for transitional carcinoma of the bladder. Jones HL, et al. **Anticancer Res** 1997 Jan–Feb; 17(1B):685–7

Comparison of natural killer (NK) sensitivities of two tumor cell lines established from a cancer patient before and after radiation therapy. Komatsu F, et al. **Clin Immunol Immunopathol** 1997 Feb;82(2):190–6

T lymphocytes infiltrating the bladder wall of patients with carcinoma of urinary bladder are in vivo activated. Reyes E, et al. **Eur Urol** 1997;31(4):472–7

Transitional cell neoplasms of the ovary and urinary bladder: a comparative immunohistochemical analysis. Soslow RA, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):257–65

Polyclonal Ki–67 expression in transitional cell carcinoma of the bladder. Jones HL, et al. **Pathology** 1997 Feb; 29(1):84–7

Expression of SSEA–1 (Lewis(x)) on transitional cell carcinoma of the bladder. Konety BR, et al. **Urol Int** 1997; 58(2):69–74

[Level and significance of the soluble interleukin–2 receptor expression in serum of patients with bladder cancer] Wen R, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):16–8 (Eng. Abstr.) **(Chi)**

[Clinical value of the study of proliferation and cell activation antigens with flow cytometry in bladder cancer] Lacombe L, et al. **Prog Urol** 1996 Dec;6(6):907–12 (Eng. Abstr.) **(Fre)**

METABOLISM

Carbohydrate antigen 19–9 expression by folliculo–tubular structures of normal and neoplastic pituitary. Okubo T, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):471–6

Prognostic significance of proliferating cell nuclear antigen expression in transitional cell carcinoma of the upper urinary tract. Cheng HL, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2789–93

An assessment of interleukin-1 alpha and interleukin-1 beta production in patients with bladder cancer. Kuo JY, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3067-70

Constitutive production of multiple cytokines and a human chorionic gonadotrophin beta-subunit by a human bladder cancer cell line (KU-19-19): possible demonstration of totipotential differentiation. Tachibana M, et al. **Br J Cancer** 1997;76(2):163-74

Plasminogen activators in oesophageal carcinoma. Hewin DF, et al. **Br J Surg** 1996 Aug;83(8):1152-5

Expression of bcl-2 and p53 oncoproteins in schistosomiasis-associated transitional and squamous cell carcinoma of urinary bladder. Chaudhary KS, et al. **Br J Urol** 1997 Jan;79(1):78-84

Expression of platelet-derived endothelial cell growth factor in bladder carcinoma. Mizutani Y, et al. **Cancer** 1997 Mar 15;79(6):1190-4

Loss of adipocyte-type fatty acid binding protein and other protein biomarkers is associated with progression of human bladder transitional cell carcinomas. Celis JE, et al. **Cancer Res** 1996 Oct 15;56(20):4782-90

Two cytodifferentiation agent-induced pathways, differentiation and apoptosis, are distinguished by the expression of human papillomavirus 16 E7 in human bladder carcinoma cells. Richon VM, et al. **Cancer Res** 1997 Jul 1;57(13):2789-98

Role of P-glycoprotein in chemoresistant superficial bladder tumours. Nargund VH, et al. **Eur Urol** 1997;31(2):160-2

Cytokeratin 20 expression by non-invasive transitional cell carcinomas: potential for distinguishing recurrent from non-recurrent disease. Harnden P, et al. **Histopathology** 1995 Aug;27(2):169-74

Immunohistochemical evaluation of nm23-H1 gene product in transitional cell carcinoma of the bladder. Nakopoulou LL, et al. **Histopathology** 1996 May;28(5):429-35

Immunodetection of androgen receptor in human urinary bladder cancer. Zhuang YH, et al. **Histopathology** 1997 Jun;30(6):556-62

Expression and functions of EGF, FGF and TGFbeta-growth-factor family members and their receptors in invasive human transitional-cell-carcinoma cells. De Boer WI, et al. **Int J Cancer** 1997 Apr 10; 71(2):284-91

PCNA and p53 in urinary bladder cancer: correlation with histological findings and prognosis. Inagaki T, et al. **Int J Urol** 1997 Mar;4(2):172-7

Correlation of nuclear p53 over-expression with clinical and histopathological features of transitional cell bladder cancer. Sinik Z, et al. **Int Urol Nephrol** 1997;29(1):25-31

Expression of the type 1 tyrosine kinase growth factor receptors EGF receptor, c-erbB2 and c-erbB3 in bladder cancer. Rajkumar T, et al. **J Pathol** 1996 Aug;179(4):381-5

Tumor-associated antigens in normal mucosa of patients with superficial transitional cell carcinoma of the bladder. Lee E, et al. **J Urol** 1997 Mar;157(3):1070-3

Strong correlation of basement membrane degradation with p53 inactivation and/or MDM2 overexpression in superficial urothelial carcinomas. Ozdemir E, et al. **J Urol** 1997 Jul;158(1):206-11

Transurethral bladder tumor resection alters fibronectin expression in transitional carcinoma cell lines. See WA, et al. **J Urol** 1997 Mar;157(3):1136-43

The correlation of membranous glycoprotein-gp-170, cytoplasmic glutathione and glucose-6-phosphate dehydrogenase levels with multidrug resistance in transitional cell carcinoma cell lines of the urinary tract. Yu DS, et al. **J Urol** 1997 Feb;157(2):727-31

Expression of platelet-derived growth-factor B-chain mRNA and tumor angiogenesis in invasive transitional cell carcinoma of the upper urinary tract. Nakanishi K, et al. **Mod Pathol** 1997 Apr;10(4):341-7

Expression of the CD44 cell adhesion molecule in urinary bladder transitional cell carcinoma. Ross JS, et al. **Mod Pathol** 1996 Aug;9(8):854-60

Decreased expression of keratinocyte growth factor receptor in a subset of human transitional cell bladder carcinomas. Diez de Medina SG, et al. **Oncogene** 1997 Jan 23; 14(3):323-30

Analysis of p21WAF1/CIP1 in primary bladder tumors. Lacombe L, et al. **Oncol Res** 1996;8(10-11):409-14

Immunohistochemical expression of bcl-2 protein in squamous cell carcinoma and basaloid carcinoma of the esophagus. Koide N, et al. **Surg Today** 1997;27(8):685-91

Defective expression of adhesion molecules on human bladder tumour and human tumour cell lines. Nouri AM, et al. **Urol Int** 1996;56(1):6-12

Immunohistochemical determination of p53 overexpression. An easy and readily available method to identify progression in superficial bladder cancer? Burkhard FC, et al. **Urol Res** 1997;25 Suppl 1:S31-5

Expression and prognostic value of proliferating cell nuclear antigen in transitional cell carcinoma of the urinary bladder. Chen G, et al. **Urol Res** 1997;25(1):25-30

Immunoreactivity of bcl-2, p53 and EGFr is associated with tumor stage, grade and cell proliferation in superficial bladder cancer. Finnbladder III Group. Liukkonen TJ, et al. **Urol Res** 1997;25(1):1-7

Evaluation of epidermal growth factor receptor, transforming growth factor alpha, epidermal growth factor and c-erbB2 in the progression of invasive bladder cancer. Ravery V, et al. **Urol Res** 1997;25(1):9-17

c-myc in bladder cancer. Clinical findings and analysis of mechanism. Schmitz-Dräger BJ, et al. **Urol Res** 1997;25 Suppl 1:S45-9

Telomerase activity: a potential marker of bladder transitional cell carcinoma in bladder washes. Yang SC, et al. **Yonsei Med J** 1997 Jun;38(3):155-9

MORTALITY

Trends in clinical outcome of transitional cell carcinoma of the ureter: have the results improved? Kunimi K, et al. **Urol Int** 1997;58(1):13-9

[Clinical course of superficial transitional carcinoma of the bladder without poor prognostic factors] Arrizabalaga Moreno M, et al. **Actas Urol Esp** 1997 Mar;21(3):187-94 (Eng. Abstr.) **(Spa)**

[Prognostic value of lymphatic metastasis in bladder cancer] Martínez-Piñeiro L, et al. **Arch Esp Urol** 1997 May; 50(4):365-71 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Urethral carcinoma in a female [letter] Kawachi Y, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1230-1

Intracytoplasmic eosinophilic inclusions (Melamed-Wolinska bodies). Association with metastatic transitional cell carcinoma in pleural fluid. Renshaw AA, et al. **Acta Cytol** 1997 Jul-Aug;41(4):995-8

Cercariform cells for helping distinguish transitional cell carcinoma from non-small cell lung carcinoma in fine needle aspirates. Renshaw AA, et al. **Acta Cytol** 1997 Jul-Aug;41(4):999-1007

Fine needle aspiration cytology of a recurrent malignant tumor of the kidney with rhabdoid features in an adult. A case report. Yusuf Y, et al. **Acta Cytol** 1996 Nov-Dec; 40(6):1313-6

Nucleolar organizer region in transitional cell carcinoma of the bladder. Pisac VP, et al. **Acta Med Croatica** 1997; 51(2):83-6

Perianal basal cell carcinoma: a comparative histologic, immunohistochemical, and flow cystometric study with basaloid carcinoma of the anus. Alvarez-Cañas MC, et al. **Am J Dermatopathol** 1996 Aug;18(4):371-9

Urothelial transitional cell carcinoma with endophytic growth patterns: a discussion of patterns of invasion and problems associated with assessment of invasion in 18 cases. Amin MB, et al. **Am J Surg Pathol** 1997 Sep;21(9):1057-68

Papillary squamotransitional cell carcinoma of the cervix: a report of 32 cases. Koenig C, et al. **Am J Surg Pathol** 1997 Aug;21(8):915-21

Transitional cell carcinomas of the urinary bladder that may be underdiagnosed. A report of four invasive cases exemplifying the homology between neoplastic and non-neoplastic transitional cell lesions. Young RH, et al. **Am J Surg Pathol** 1996 Dec;20(12):1448-54

The computer-assisted microscope analysis of Feulgen-stained nuclei linked to a supervised learning algorithm as an aid to prognosis assessment in invasive transitional bladder cell carcinomas. Decaestecker C, et al. **Anal Cell Pathol** 1996 May;10(3):263-80

Clinicopathologic study of leptomeningeal carcinomatosis involving the temporal bone. Imamura S, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):674-9

Osteoclastoma-like giant cell tumor of the renal pelvis associated with papillary transitional cell carcinoma. Molinié V, et al. **Arch Pathol Lab Med** 1997 Feb; 121(2):162-6 (28 ref.)

Antiproliferative effect of IL-6 on transitional cell carcinoma of the bladder. Insight into mechanisms of bacillus Calmette-Guerin immunotherapy. Alexandroff AB, et al. **Biochem Soc Trans** 1997 May;25(2):270S

Significant telomere reduction in human superficial transitional cell carcinoma. Kamata S, et al. **Br J Urol** 1996 Nov;78(5):704-8

The clinical and histological features of transitional cell carcinoma of the bladder with microcysts: analysis of 12 cases. Paz A, et al. **Br J Urol** 1997 May;79(5):722-5

Transitional cell carcinoma of the endometrium and endometrial carcinoma with transitional cell differentiation. Lininger RA, et al. **Cancer** 1997 May 15;79(10):1933-43

Overexpression of p53 in transitional cell carcinoma of the renal pelvis and ureter. Relation to tumor proliferation and survival. Rey A, et al. **Cancer** 1997 Jun 1;79(11):2178-85

Renal cell carcinoma with renal pelvic extension simulating transitional cell carcinoma: a case report. Chen WC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Aug; 58(2):147-50

Urachal carcinoma: a report of two cases. Lin CN, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Dec;56(6):436-9

Renal pelvic tumor in a horseshoe kidney. Benge BN. **Del Med J** 1997 May;69(5):251-3

E-cadherin cell-adhesion molecule expression as a diagnostic adjunct in urothelial cytology. Ross JS, et al. **Diagn Cytopathol** 1996 Jun;14(4):310-5

Transitional-cell carcinoma metastatic to cerebrospinal fluid: presentation of two cases. Stastny JF, et al. **Diagn Cytopathol** 1996 Nov;15(4):338-40

Basaloid squamous cell carcinoma of the larynx. Akyol MU, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):485-7

p53 expression compared with other prognostic factors in OMS grade-I stage-Ta transitional cell carcinoma of the bladder. Casetta G, et al. **Eur Urol** 1997;32(2):229-36

Evaluation of the argyrophilic nucleolar organizer region, nuclear DNA content and mean nuclear area in transitional cell carcinoma of bladder using a quantitative image analyzer. Shiina H, et al. **Eur Urol** 1996;29(1):99-105

DNA-aneuploidy as marker for neoplasia in G1-urothelial carcinomas. Planz B, et al. **Gen Diagn Pathol** 1996 Oct; 142(2):69-73

A mapping of histology and cell proliferation in human bladder cancer: an immunohistochemical study. Igawa M, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):93-7

Choriocarcinoma associated with transitional cell carcinoma in-situ of the ureter. Deodhare S, et al. **Histopathology** 1996 Apr;28(4):363-5

Expression of the apoptosis suppressing bcl-2 protein in transitional cell bladder tumours. Lipponen PK, et al. **Histopathology** 1996 Feb;28(2):135-40

Establishment and characterization of two human bladder cancer cell lines. Naito S, et al. **Hum Cell** 1996 Mar; 9(1):49-56

Advanced stage transitional cell carcinoma of the ovary. Hollingsworth HC, et al. **Hum Pathol** 1996 Dec; 27(12):1267-72

E-cadherin expression in upper-urinary-tract carcinoma. Nakanishi K, et al. **Int J Cancer** 1997 Aug 22;74(4):446-9

Metanestin, a glycoprotein with metastasis-associated expression in transitional cell carcinoma of the urinary bladder. Takemoto M, et al. **Int J Cancer** 1997 Feb 20; 74(1):7-14

Transitional cell neoplasms of the ovary and urinary bladder: a comparative immunohistochemical analysis. Soslow RA, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):257-65

Significance of downstaging in muscle-invasive bladder cancer treated with preoperative radiotherapy. Pollack A, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):41-9

PCNA and p53 in urinary bladder cancer: correlation with histological findings and prognosis. Inagaki T, et al. **Int J Urol** 1997 Mar;4(2):172-7

Inverted transitional cell carcinoma of the ureter. Kawachi Y, et al. **Int J Urol** 1996 Jul;3(4):313-5

Alteration of intercellular communication in a human urothelial carcinoma cell-line by tumor-promoting agents. Morimoto S. **Int J Urol** 1996 May;3(3):212-7

Bulky transitional cell carcinoma of bladder with inverted proliferation. Terai A, et al. **Int J Urol** 1996 Jul;3(4):316-9

Urethral malignant melanoma closely mimicking urothelial carcinoma. Radhi JM. **J Clin Pathol** 1997 Mar;50(3):250-2

Quintuple cancers: report of a case with triple cancers in the head and neck. Martin-Granizo R, et al. **J Craniomaxillofac Surg** 1997 Jun;25(3):153-7 (34 ref.)

Primary adenocarcinoma, signet-ring, and transitional cell carcinoma of the bladder with penile metastasis. Allen RA, et al. **J Natl Med Assoc** 1997 Apr;89(4):253-6

Diagnostic accuracy of ureteroscopic biopsy in upper tract transitional cell carcinoma [see comments] Keeley FX, et al. **J Urol** 1997 Jan;157(1):33-7. Comment in: J Urol 1997 Jan;157(1):42-3.

Apoptosis in transitional cell carcinoma of the renal pelvis and ureter: association with proliferative activity, bcl-2 expression and prognosis. Masuda M, et al. **J Urol** 1997 Sep;158(3 Pt 1):750-3

Interferons modify in vitro proliferation of human bladder transitional cell carcinoma in the presence of doxorubicin and mitomycin C. Okamoto E, et al. **J Urol** 1996 Oct; 156(4):1492-5

The significance of central pathology review in clinical studies of transitional cell carcinoma in situ [see comments] Sharkey FE, et al. **J Urol** 1997 Jan;157(1):68-70; discussion 70-1. Comment in: J Urol 1997 Jan;157(1):83-4.

Deoxyribonucleic acid ploidy enhances the cytological prediction of recurrent transitional cell carcinoma of the bladder. Slaton JW, et al. **J Urol** 1997 Sep;158(3 Pt 1):806-11

Stromal and vascular invasion in an human in vitro bladder cancer model. Booth C, et al. **Lab Invest** 1997 Jun; 76(6):843-57

DNA image analysis of urinary cytology: prediction of recurrent transitional cell carcinoma. de la Roza GL, et al. **Mod Pathol** 1996 May;9(5):571-8

The nested variant of transitional cell carcinoma: an aggressive neoplasm with innocuous histology. Drew PA, et al. **Mod Pathol** 1996 Oct;9(10):989-94

Diagnostic accuracy and key cytologic features of high-grade transitional cell carcinoma in the upper urinary tract. Potts SA, et al. **Mod Pathol** 1997 Jul;10(7):657-62

Morphogenesis of inclusion bodies of urothelial carcinoma: a case study. Yang GC, et al. **Mod Pathol** 1996 May; 9(5):566-70

Malignant fibrous histiocytoma of the renal capsule and synchronous transitional cell carcinoma of the bladder. Lopez JI, et al. **Pathol Res Pract** 1996 May;192(5):468-71; discussion 472-3

Sarcomatoid transitional cell carcinoma of the renal pelvis. A report of five cases with clinical, pathological, immunohistochemical and DNA ploidy analysis. Lopez-Beltran A, et al. **Pathol Res Pract** 1996 Dec; 192(12):1218-24 (27 ref.)

Staging urinary bladder cancer after transurethral biopsy: value of fast dynamic contrast-enhanced MR imaging. Barentsz JO, et al. **Radiology** 1996 Oct;201(1):185-93

Transitional cell carcinoma of the renal pelvis: a retrospective look at CT staging with pathologic correlation. Buckley JA, et al. **Radiology** 1996 Oct;201(1):194-8

Transitional cell carcinoma express vitamin D receptors. Hermann GG, et al. **Scand J Urol Nephrol** 1997 Apr;

31(2):161–6
Papillary transitional cell tumour in the vagina. Jendresen MB, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):107–8
Multiple but different urothelial tumours in one side of a urinary tract. Shokeir AA, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):199–201
Intraepithelial lesions of the urinary bladder with a discussion of the histogenesis of urothelial neoplasia. Amin MB, et al. **Semin Diagn Pathol** 1997 May;14(2):84–97 (57 ref.)
Pathologic prognostic parameters in bladder urothelial biopsy, transurethral resection, and cystectomy specimens. Lapham RL, et al. **Semin Diagn Pathol** 1997 May; 14(2):109–22 (110 ref.)
Pathology of transitional cell carcinoma of the bladder and its clinical implications. Lapham RL, et al.
Semin Surg Oncol 1997 Sep–Oct;13(5):307–18 (95 ref.)
Pathology and its importance in evaluating outcome in patients with superficial bladder cancer. Huben RP, et al. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):23–9 (23 ref.)
Cell-type-specific response to shock waves of suspended or pelleted cells as analysed by flow cytometry or electrical cell volume determination. Endl E, et al.
Ultrasound Med Biol 1996;22(4):515–25
Comparison of ureteropelvic transitional cell carcinoma with bladder transitional cell carcinoma using an image analyzer. Shiina H, et al. **Urol Int** 1996;56(3):163–8
Fibroepithelial polyp of the renal pelvis: nephron-sparing surgery after false-positive biopsy for transitional cell carcinoma. Brady JD, et al. **Urology** 1997 Mar;49(3):460–4 (32 ref.)
Use of p53 in the diagnosis of upper-tract transitional cell carcinoma. Keeley FX Jr, et al. **Urology** 1997 Feb; 49(2):181–6
The significance of E-cadherin in transitional-cell carcinoma of the human urinary bladder. Fujisawa M, et al.
World J Urol 1996;14 Suppl 1:S12–5
Human urinary bladder-carcinoma cells are non-osteoinductive. Włodarski KH, et al. **World J Urol** 1996;14 Suppl 1:S16–20
[Evaluations of protein p53 overexpression in cancer of the bladder: prognostic value] Popov Z, et al. **Chirurgie** 1996; 121(6):461–9 (Eng. Abstr.) **(Fre)**
[Prostatic urothelial location of a tumor of the bladder] Coulange C, et al. **Prog Urol** 1997 Feb;7(1):128–31 (14 ref.) (Eng. Abstr.) **(Fre)**
[Clinical value of the study of proliferation and cell activation antigens with flow cytometry in bladder cancer] Lacombe L, et al. **Prog Urol** 1996 Dec;6(6):907–12 (Eng. Abstr.) **(Fre)**
[Chronic interstitial cystitis (Hunner) associated verrucous carcinoma of the urinary bladder] Hamm M, et al.
Urologe A 1997 Jan;36(1):50–3 (Eng. Abstr.) **(Ger)**
[Clinical studies on renal pelvic and ureteral carcinoma] Akino H, et al. **Hinyokika Kiyo** 1997 Apr;43(4):257–62 (Eng. Abstr.) **(Jpn)**
[Prognostic criteria in patients with renal pelvic and ureteral cancers—clinical value of volume weighted mean nuclear volume] Aoyama T, et al. **Hinyokika Kiyo** 1996 Nov; 42(11):841–5 (Eng. Abstr.) **(Jpn)**
[Transitional cell carcinoma of the renal pelvis with cystic formation: a case report] Fukuoka A, et al.
Hinyokika Kiyo 1996 Oct;42(10):739–42 (13 ref.) (Eng. Abstr.) **(Jpn)**
[Unilateral and synchronous occurrence of renal cell carcinoma and ureteral tumor: a case report] Hashiba T, et al. **Hinyokika Kiyo** 1996 Oct;42(10):735–7 (Eng. Abstr.) **(Jpn)**
[Clinical investigation for recurrence and progression in Ta grades 1 and 2 bladder cancer] Takei K, et al.
Hinyokika Kiyo 1997 Mar;43(3):185–9 (Eng. Abstr.) **(Jpn)**
[Prostatic involvement of bladder carcinoma] Ito T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jul;88(7):677–83 (Eng. Abstr.) **(Jpn)**
[A case of invasive bladder cancer with Pagetoid skin lesion of the vulva and anogenital Paget's disease] Koga F, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Apr;88(4):503–6 (Eng. Abstr.) **(Jpn)**
[Transformation of glandular cystitis into bladder transitional carcinoma with adenocarcinoma areas] García Rojo D, et al. **Arch Esp Urol** 1997 Mar;50(2):187–9 (Eng. Abstr.) **(Spa)**
[Transitional cell carcinoma of the bladder: behavior in young adults] Huguet Pérez J, et al. **Arch Esp Urol** 1996 Jul–Aug;49(6):607–12 (17 ref.) (Eng. Abstr.) **(Spa)**
[Identification of factors conditioning urinary cytology in bladder cancer] Páez Borda A, et al. **Arch Esp Urol** 1996 Sep;49(7):693–9 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Bladder cancer: natural history, tumor markers, and early detection strategies. Foresman WH, et al.
Semin Surg Oncol 1997 Sep–Oct;13(5):299–306 (45 ref.)

PREVENTION & CONTROL

Single-dose versus multiple instillations of epirubicin as prophylaxis for recurrence after transurethral resection of pTa and pT1 transitional-cell bladder tumours: a prospective, randomized controlled study. Ali-el-Dein B, et al. **Br J Urol** 1997 May;79(5):731–5
Toxicity evaluation of difluoromethylornithine: doses for chemoprevention trials. Loprinzi CL, et al.
Cancer Epidemiol Biomarkers Prev 1996 May;5(5):371–4
New strategy of bio-chemoprevention on recurrence of superficial bladder cancer based on a hypothesis of the mechanism of recurrence. Akaza H.
Gan To Kagaku Ryoho 1997 May;24 Suppl 1:253–6 (13 ref.)
A 12 versus 6-week course of bacillus Calmette-Guerin prophylaxis for the treatment of high risk superficial bladder cancer. Gruenwald IE, et al. **J Urol** 1997 Feb; 157(2):487–91
End stage renal disease and prophylactic intracavitary interferon. Pascual J, et al. **J Urol** 1997 Sep;158(3 Pt 1):881
Results at 43 months' follow-up of a double-blind, randomized, prospective clinical trial using intravesical interferon alpha-2b in the prophylaxis of stage pT1 transitional cell carcinoma of the bladder. Portillo J, et al. **Urology** 1997 Feb;49(2):187–90
Current concepts in the role of intravesical instillations in the therapy and prophylaxis of superficial transitional-cell cancer of the bladder. The Finnbladder Research Group. Alfthan O, et al. **World J Urol** 1997;15(2):89–95 (64 ref.)
[Mitomycin-C 30 mg for 12 months versus Mitomycin-C 40 mg for 6 months in the prevention of superficial bladder carcinoma G1-G2] Vecchioli Scaldazza C.
Minerva Urol Nefrol 1996 Dec;48(4):203–6 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Renal leiomyosarcoma mimicking transitional cell carcinoma [letter] Chen JH, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):312–3
CT appearance of transitional cell carcinoma of the renal pelvis: Part 1. Early-stage disease. Urban BA, et al.
AJR Am J Roentgenol 1997 Jul;169(1):157–61
CT appearance of transitional cell carcinoma of the renal pelvis: Part 2. Advanced-stage disease. Urban BA, et al.
AJR Am J Roentgenol 1997 Jul;169(1):163–8
Inverted transitional cell carcinoma of the ureter. Kawachi Y, et al. **Int J Urol** 1996 Jul;3(4):313–5
Radiology quiz #7. Transitional cell carcinoma of bladder. Francis RA. **Mo Med** 1996 Sep;93(9):567–8
[Contribution of computed tomography in the staging of upper urinary tract urothelial tumors. Importance of the tumor diameter measurement] Valignat C, et al.
Prog Urol 1997 Apr;7(2):217–24 (Eng. Abstr.) **(Fre)**
[Virtual cystoscopy based on spiral CT data] Merkle EM, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1996 Dec;165(6):582–5 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Preliminary assessment of fluorine-18 fluorodeoxyglucose positron emission tomography in patients with bladder cancer. Kosuda S, et al. **Eur J Nucl Med** 1997 Jun; 24(6):615–20
Incrustation and uptake of skeletal imaging agent in transitional cell carcinoma. Taniguchi M, et al.
J Nucl Med 1997 Aug;38(8):1206–7

RADIOTHERAPY

Combined chemotherapy and radiation with selective organ preservation for muscle-invasive bladder carcinoma. A single-institution phase II study. Fellin G, et al.
Br J Urol 1997 Jul;80(1):44–9
Preclinical evaluation of copper-67 labelled anti-MUC1 mucin antibody C595 for therapeutic use in bladder cancer. Hughes OD, et al. **Eur J Nucl Med** 1997 Apr;24(4):439–43
A feasibility study of accelerated fractionation in radiotherapy of carcinoma of the urinary bladder. Moonen L, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1; 37(3):537–42
Significance of downstaging in muscle-invasive bladder cancer treated with preoperative radiotherapy. Pollack A, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):41–9
Combined chemotherapy and irradiation for transitional cell cancer of the bladder: a review. Beuzeboc P, et al.
J Infus Chemother 1995 Fall;5(4):218–20 (22 ref.)
Concurrent cisplatin and radiotherapy for patients with muscle invasive bladder cancer who are not candidates for radical cystectomy. Chauvet B, et al. **J Urol** 1996 Oct; 156(4):1258–62
Treatment of advanced bladder cancer with combined preoperative irradiation and radical cystectomy versus radical cystectomy alone: a phase III intergroup study. Smith JA Jr, et al. **J Urol** 1997 Mar;157(3):805–7; discussion 807–8
Combined surgery and brachytherapy in the treatment of some cancers of the bladder (partial cystectomy and interstitial iridium-192). Pernot M, et al.
Radiother Oncol 1996 Feb;38(2):115–20
Hypofractionated radiotherapy for invasive bladder cancer. Scholten AN, et al. **Radiother Oncol** 1997 May;43(2):163–9
Morbidity after preoperative radiotherapy and cystectomy in patients with bladder cancer. Tomic R, et al.
Scand J Urol Nephrol 1997 Apr;31(2):149–53
New approaches in the use of radiation therapy in the treatment of infiltrative transitional-cell cancer of the bladder. Warde P, et al. **World J Urol** 1997;15(2):125–33 (61 ref.)
[Value of postoperative radiotherapy in malignant tumors of the upper urinary tract. Apropos of a series of 26 patients] Maulard-Durdux C, et al. **Bull Cancer** 1996 Nov; 83(11):940–4 (23 ref.) (Eng. Abstr.) **(Fre)**
[Peroperative radiotherapy in the conservative treatment of infiltrating bladder cancers] Hulewicz G, et al.
Prog Urol 1997 Apr;7(2):229–34 (Eng. Abstr.) **(Fre)**
[Outcome of simultaneous radiochemotherapy of anal carcinoma] Fraunholz IB, et al. **Zentralbl Chir** 1997; 122(1):39–43 (Eng. Abstr.) **(Ger)**
[Leiomyosarcoma of the bladder 8 years after radiation therapy for bladder cancer] Arutiunian NO, et al.
Urol Nefrol (Mosk) 1996 May–Jun;(3):45–6 **(Rus)**

SECONDARY

Acute liver failure due to diffuse intrasinusoidal metastases of urothelial carcinoma. Alcalde M, et al.
Acta Gastroenterol Belg 1996 Apr–Jun;59(2):163–5
Mammographic and sonographic findings in metastatic transitional cell carcinoma of the breast. Belton AL, et al.
AJR Am J Roentgenol 1997 Feb;168(2):511–2
Mitoxantrone in the treatment of metastatic transitional cell carcinoma of the prostate. A case report. Stewart DJ, et al. **Am J Clin Oncol** 1997 Aug;20(4):381–2
Clinicopathologic study of leptomeningeal carcinomatosis involving the temporal bone. Imamura S, et al.
Ann Otol Rhinol Laryngol 1997 Aug;106(8):674–9
Cutaneous metastases from transitional cell carcinomas of the bladder and renal pelvis. Chitale SV, et al.
Br J Urol 1997 Feb;79(2):292–3
Late, isolated, secondary ovarian transitional cell carcinoma: an unusual course of bladder malignancy. Groutz A, et al. **Br J Urol** 1996 Nov;78(5):795–6
Carcinoma erysipelatoides resulting from genitourinary cancer. Elston DM, et al. **J Am Acad Dermatol** 1996 Dec; 35(6):993–5
Transitional cell carcinoma and right ventricular obstruction. Kemp W, et al. **J Urol** 1997 Oct;158(4):1522–3
Bladder cancer complicated with priapism. A case report. Kvarstein B. **Scand J Urol Nephrol Suppl** 1996;179:155–6
Perineural invasion in transitional cell carcinoma and the effect on prognosis following radical cystectomy. Nangia AK, et al. **Urology** 1997 Jun;49(6):968–72
Transitional cell carcinoma of the kidney with tumor thrombus into the vena cava. Williams JH, et al.
Urology 1996 Dec;48(6):932–5 (14 ref.)
New approaches in the treatment of metastatic transitional-cell cancer of the bladder. Corral DA, et al.
World J Urol 1997;15(2):139–43 (28 ref.)
[Carcinomatous meningitis: rare complication of bladder cancer] Hasbini A, et al. **Rev Med Interne** 1997;18(5):402–6 (36 ref.) (Eng. Abstr.) **(Fre)**
[Rare tumor spread variant in carcinoma of the kidney pelvis. Urographic and computerized tomography diagnosis] Pecher S, et al. **Rontgenpraxis** 1997 Jul;50(7):199–201 **(Ger)**
[Solitary splenic metastasis of bladder carcinoma. Report of a clinical case] Vittoria A, et al. **Minerva Chir** 1996 Oct; 51(10):855–9 (Eng. Abstr.) **(Ita)**

SECRETION

Human monocytes induce a carcinoma cell line to secrete high amounts of nitric oxide. Konur A, et al.
J Immunol 1996 Sep 1;157(5):2109–15

SURGERY

Multiple frequent recurrences in superficial transitional cell carcinoma of the bladder: is survival compromised by a conservative management strategy? Hrouda D, et al.
Br J Urol 1997 May;79(5):726–30
Female urethra-sparing cystectomy and orthotopic bladder replacement. Jarolím L, et al. **Eur Urol** 1997;31(2):173–7
Mainz pouch with appendix-umbilical stoma using catheterizable conduit elongated with continuous cecal segment: a case report. Okada Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):973–5
Effect of surgical stress on immune function in patients with urologic cancer. Mizutani Y, et al. **Int J Urol** 1996 Nov; 3(6):426–34
Ex vivo partial nephrectomy and partial kidney autotransplantation for renal pelvic carcinoma in a functionally solitary kidney: case report. Nishiyama T, et al. **Int J Urol** 1997 Jul;4(4):425–7
Percutaneous treatment of transitional cell carcinoma of the upper urinary tract. Okada H, et al. **Int J Urol** 1997 Mar; 4(2):130–3 (15 ref.)
Modified "pluck" nephroureterectomy for upper urinary tract disorders: combined endourologic and open approach. Kural AR, et al. **J Endourol** 1997 Apr;11(2):131–4
Urethral recurrence in patients with orthotopic ileal neobladders. Freeman JA, et al. **J Urol** 1996 Nov; 156(5):1615–9
Adjuvant chemotherapy for superficial transitional cell bladder carcinoma: long-term results of a European Organization for Research and Treatment of Cancer randomized trial comparing doxorubicin, ethoglucid and transurethral resection alone. Kurth K, et al. **J Urol** 1997 Aug;158(2):378–84
Transurethral bladder tumor resection alters fibronectin expression in transitional carcinoma cell lines. See WA, et al. **J Urol** 1997 Mar;157(3):1136–43
Treatment of advanced bladder cancer with combined preoperative irradiation and radical cystectomy versus

radical cystectomy alone: a phase III intergroup study. Smith JA Jr, et al. **J Urol** 1997 Mar;157(3):805–7; discussion 807–8

Combined surgery and brachytherapy in the treatment of some cancers of the bladder (partial cystectomy and interstitial iridium-192). Pernot M, et al. **Radiother Oncol** 1996 Feb;38(2):115–20

Infiltrating transitional cell carcinoma of the bladder—treatment results. Heyns CF, et al. **S Afr J Surg** 1996 May;34(2):82–6, 91–3; discussion 93–4

Invasive, high grade transitional cell carcinoma of the bladder treated with transurethral resection. A survival analysis focusing on TUR as monotherapy. Roosen JU, et al. **Scand J Urol Nephrol** 1997 Feb;31(1):39–42

Single incision, endoscopically assisted nephroureterectomy for tumours of the upper urinary tract. Sawa TE, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):273–5

Long-term ureteroscopic management of low-grade transitional cell carcinoma of the upper urinary tract. Engelmyer EI, et al. **Tech Urol** 1996 Summer;2(2):113–6

Neoadjuvant CMV chemotherapy plus radical cystectomy in locally advanced bladder cancer: the impact of pathologic response on long-term results. Scattoni V, et al. **Tumori** 1996 Sep–Oct;82(5):463–9

Results of radical cystectomy and pelvic lymphadenectomy for bladder cancer with pelvic node metastases. Bretheau D, et al. **Urol Int** 1996;57(1):27–31

Separated pyelocolocutaneous diversion after bilateral ureterectomy and radical cystectomy for transitional cell carcinoma. Carney KJ, et al. **Urology** 1997 Sep;50(3):449–52

Perineural invasion in transitional cell carcinoma and the effect on prognosis following radical cystectomy. Nangia AK, et al. **Urology** 1997 Jun;49(6):968–72

Radical cystectomy with or without adjuvant polychemotherapy for non-organ-confined transitional cell carcinoma of the urinary bladder: prognostic impact of lymph node involvement. Stöckle M, et al. **Urology** 1996 Dec;48(6):868–75

[A rare variety of urothelial carcinoma. Apropos of 2 cases] Chefchaouni MC, et al. **J Urol (Paris)** 1996;102(4):185–7 (6 ref.) (Eng. Abstr.) **(Fre)**

[Peroperative radiotherapy in the conservative treatment of infiltrating bladder cancers] Hulewicz G, et al. **Prog Urol** 1997 Apr;7(2):229–34 (Eng. Abstr.) **(Fre)**

[Infiltrating bladder tumor in a renal transplant patient: cystectomy with prostatic conservation and enterocystoplasty] Koutani A, et al. **Prog Urol** 1997 Apr; 7(2):277–80 (Eng. Abstr.) **(Fre)**

[Delayed appendico-cutaneous fistula--a rare complication of simple abdominal drainage] Brünagel G, et al. **Zentralbl Chir** 1996;121(1):67–9 (Eng. Abstr.) **(Ger)**

[Orthotopic urinary diversions: the Paduan ileal neobladder. Experience at the Urologic Division of Magenta] De Giovanni M, et al. **Arch Ital Urol Androl** 1996 Dec; 68(5):299–301 (Eng. Abstr.) **(Ita)**

[100 orthotopic neobladders in men after cystectomy: a 5-year experience] Mandressi A, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):323–31 (Eng. Abstr.) **(Ita)**

[Ileal neobladder in women: Milano's technique] Pisani E, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):341–2 (Eng. Abstr.) **(Ita)**

[Stents in the treatment of stenosis of the entero-urethral junction in continent diversion: case reports] Pizzocaro M, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):319–22 (Eng. Abstr.) **(Ita)**

[Orthotopic ileal neobladders in men and women: techniques and comparison] Rocco F, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):293–8 (Eng. Abstr.) **(Ita)**

[Clinical outcome of bladder preserving therapy for superficial high-grade bladder cancer] Chiba K, et al. **Hinyokika Kiyo** 1997 May;43(5):329–32 (Eng. Abstr.) **(Jpn)**

[Primary transitional cell carcinoma of the prostatic urethra: a case report] Hashimoto K, et al. **Hinyokika Kiyo** 1996 May;42(5):385–7 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical analysis of bladder cancer patients treated by radical cystectomy] Kageyama S, et al. **Hinyokika Kiyo** 1997 Jan; 43(1):1–6 (Eng. Abstr.) **(Jpn)**

[A case of CEA and CA19-9 producing recurrent transitional cell carcinoma in an Indiana pouch after total cystectomy] Miyoshi Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):961–4 (Eng. Abstr.) **(Jpn)**

[The operation for malignant tumors in the frontal skull base: combined transbasal & transfacial approach] Kawakami K, et al. **No Shinkei Geka** 1996 Jul;24(7):613–20 (Eng. Abstr.) **(Jpn)**

[Leiomyosarcoma of the bladder 8 years after radiation therapy for bladder cancer] Arutiunian NO, et al. **Urol Nefrol (Mosk)** 1996 May–Jun;(3):45–6 **(Rus)**

[The surgical results in malignant bladder tumors using the Scalpel-1 carbon-dioxide laser] Dmitriev BV, et al. **Urol Nefrol (Mosk)** 1997 Jan–Feb;(1):25–8 (Eng. Abstr.) **(Rus)**

[Variants in the transpubic approach in bladder cancer] Kudriavtsev LA, et al. **Urol Nefrol (Mosk)** 1996 Jul–Aug; (4):32–4 (Eng. Abstr.) **(Rus)**

[The holmium laser in the treatment of bladder cancer patients] Mazo EB, et al. **Urol Nefrol (Mosk)** 1996 Jul–Aug; (4):34–5 (Eng. Abstr.) **(Rus)**

[The surgical treatment of patients with bladder cancer in middle and old age] Tkachuk VN, et al. **Urol Nefrol (Mosk)** 1997 Jan–Feb;(1):23–5 (Eng. Abstr.) **(Rus)**

[Analysis of 34 cases of infiltrating carcinoma of the bladder treated exclusively with partial cystectomy (part 1)] Escudero Barrilero A, et al. **Arch Esp Urol** 1996 May; 49(4):349–64 (28 ref.) (Eng. Abstr.) **(Spa)**

[Transitional cell tumor of the ovary. Revision of a 20-year surgical material of the department of pathology at the Mexico General Hospital] Alcántara Vázquez A, et al. **Ginecol Obstet Mex** 1997 Aug;65:339–43 (32 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Is the success of BCG tumour immunotherapy due to the induction of co-stimulatory molecules? Alexandroff AB, et al. **Biochem Soc Trans** 1997 May;25(2):201S

Prophylactic intracavitary treatment with interferon alpha increases interferon gamma production by peripheral blood mononuclear cells in patients with superficial transitional cell carcinoma of the bladder. Moltó L, et al. **Br J Cancer** 1997;75(12):1849–53

The National Cancer Data Base report on bladder carcinoma. The American College of Surgeons Commission on Cancer and the American Cancer Society. Fleshner NE, et al. **Cancer** 1996 Oct 1;78(7):1505–13

Allium sativum (garlic) treatment for murine transitional cell carcinoma. Riggs DR, et al. **Cancer** 1997 May 15; 79(10):1987–94

Application of clinical trials to the care of patients with bladder cancer. Hall RR. **Eur Urol** 1997;31 Suppl 1:42–6 (29 ref.)

Ultrastructural study of the noninvolved urothelium of tumor-bearing patients after two years of intravesical interferon therapy. Stravoravdi P, et al. **Eur Urol** 1996; 29(4):477–82

Intravesical therapy of bladder cancer: an immunotherapy success story. Morales A. **Int J Urol** 1996 Sep;3(5):329–33 (30 ref.)

Preliminary results of concurrent methotrexate, cisplatin and radiation treatment for locally advanced urothelial cancers. Igawa M, et al. **Int Urol Nephrol** 1996;28(2):189–94

Transurethral resection and intra-arterial chemotherapy for muscle-invasive bladder cancer. Kondás J, et al. **Int Urol Nephrol** 1996;28(2):181–7

Improved local control of invasive bladder cancer by concurrent cisplatin and preoperative or definitive radiation. The National Cancer Institute of Canada Clinical Trials Group. Coppin CM, et al. **J Clin Oncol** 1996 Nov; 14(11):2901–7

Retrograde ureteral intussusception: a rare complication. Bernhard PH, et al. **J Endourol** 1996 Aug;10(4):349–51

Low dose Pasteur bacillus Calmette-Guerin regimen in stage T1, grade 3 bladder cancer therapy [see comments] Hurle R, et al. **J Urol** 1996 Nov;156(5):1602–5. Comment in: J Urol 1996 Nov;156(5):1609–10.

Re: Assessment of conservative management for stage T10N0M0 transitional cell carcinoma of the bladder [letter; comment] Lamm DL. **J Urol** 1997 Mar;157(3):963–4. Comment on: J Urol 1996 Jun;155(6):1907–9.

Granulomatous mass in a nonrefluxing renal unit after bacillus Calmette-Guerin therapy for bladder cancer. Siskron FT 4th, et al. **J Urol** 1997 Sep;158(3 Pt 1):882–3

Transrectal ultrasound appearance of prostatic granulomas secondary to bacillus Calmette-Guerin instillation. Terris MK, et al. **J Urol** 1997 Jul;158(1):126–7

Interleukin-8 expression in the urine after bacillus Calmette-Guerin therapy: a potential prognostic factor of tumor recurrence and progression. Thalmann GN, et al. **J Urol** 1997 Oct;158(4):1340–4

Successful treatment of a bleeding renal tumor with ethanol [letter] Machan LS, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):152–3

Chronic ambulatory peritoneal dialysis in a patient with end-stage renal disease following radiotherapy and surgery for transitional cell carcinoma [letter; comment] Mcligeyo SO, et al. **Nephron** 1996;74(2):495–6. Comment on: Nephron 1995;69(1):112–3.

Changes in lymphocyte subsets following administration of interleukin 2 and cyclophosphamide in mice with transitional cell carcinoma. Ikemoto S, et al. **Oncol Res** 1997;9(2):71–5

Epididymo-orchitis and Reiter's disease. Two infrequent complications after intravesical bacillus Calmette-Guérin therapy. Hansen CP, et al. **Scand J Urol Nephrol** 1997 Jun; 31(3):317–8

Reiter syndrome following intracavitary BCG administration. Saporta L, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):211–2

Therapy of superficial bladder cancer. Nseyo UO, et al. **Semin Oncol** 1996 Oct;23(5):598–604 (49 ref.)

Immunotherapy of bladder cancer. Nseyo UO, et al. **Semin Surg Oncol** 1997 Sep–Oct;13(5):342–9 (76 ref.)

Future therapies for the treatment of bladder neoplasms. See WA, et al. **Semin Surg Oncol** 1997 Sep–Oct;13(5):376–88 (101 ref.)

Diagnosis and treatment of superficial bladder cancer: an update. Crawford ED. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):1–9 (70 ref.)

Intravesical chemotherapy versus immunotherapy for superficial bladder cancer. Huben RP. **Semin Urol Oncol** 1996 Feb;14(1 Suppl 1):17–22 (26 ref.)

Immunostimulation in the urinary bladder by local application of Nocardia rubra cell wall skeleton preparation (Rubratin) for superficial bladder cancer immunotherapy--a phase I/II study. de Reijke TM, et al. **Urol Res** 1997;25(2):117–20

Additional bacillus Calmette-Guérin therapy for recurrent transitional cell carcinoma after an initial complete response. Bui TT, et al. **Urology** 1997 May;49(5):687–90; discussion 690–1

Significance of p53 overexpression in urinary bladder transitional cell carcinoma in situ before and after bacillus Calmette-Guérin treatment. Ick K, et al. **Urology** 1997 Apr; 49(4):541–6; discussion 546–7

Incidence of granulomatous prostatitis and acid-fast bacilli after intravesical BCG therapy. LaFontaine PD, et al. **Urology** 1997 Mar;49(3):363–6

Adenovirus-mediated suicide gene therapy for experimental bladder cancer. Sutton MA, et al. **Urology** 1997 Feb; 49(2):173–80

Upper-tract transitional cell carcinoma. Tawfiek ER, et al. **Urology** 1997 Sep;50(3):321–9 (87 ref.)

New approaches in the treatment of metastatic transitional-cell cancer of the bladder. Corral DA, et al. **World J Urol** 1997;15(2):139–43 (28 ref.)

[Pitfalls in intravesical immunotherapy of superficial carcinoma of the gallbladder with BCG vaccine] Pacík D, et al. **Rozhl Chir** 1997 Jan;76(1):3–5 (Eng. Abstr.) **(Cze)**

[Extirpation of total urinary tract as a final treatment for asynchronous multicentric urothelial cancer: a case report] Mikata K, et al. **Hinyokika Kiyo** 1996 May;42(5):377–80 (Eng. Abstr.) **(Jpn)**

[Consideration of therapeutic choice for grade 3 superficial bladder cancer] Noguchi S, et al. **Hinyokika Kiyo** 1996 Sep;42(9):635–8 (Eng. Abstr.) **(Jpn)**

[Intrarenal bacillus Calmette-Guerin therapy for carcinoma in situ of the upper urinary tract] Okubo K, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):386–90 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Advances in the treatment of infiltrating transitional cancer of the bladder] Escudero Barrilero A. **Arch Esp Urol** 1996 May;49(4):317–23; discussion 323–35 (0 ref.) **(Spa)**

ULTRASTRUCTURE

Granulocyte colony-stimulating factor receptor expression on human transitional cell carcinoma of the bladder. Tachibana M, et al. **Br J Cancer** 1997;75(10):1489–96

Morphological changes in the basement membrane during progression from non-invasive to invasive rat bladder cancer induced by N-butyl-N-(4-hydoxybutyl) nitrosamine. Zhang XH, et al. **Br J Urol** 1997 Mar; 79(3):378–82

Ultrastructural study of the noninvolved urothelium of tumor-bearing patients after two years of intravesical interferon therapy. Stravoravdi P, et al. **Eur Urol** 1996; 29(4):477–82

URINE

Tumor-associated hyaluronic acid: a new sensitive and specific urine marker for bladder cancer. Lokeshwar VB, et al. **Cancer Res** 1997 Feb 15;57(4):773–7

Tumor-derived hyaluronidase: a diagnostic urine marker for high-grade bladder cancer. Pham HT, et al. **Cancer Res** 1997 Feb 15;57(4):778–83

Detection of bladder tumor by urine cytology in cases of prostatic hypertrophy. Rammou-Kinia R, et al. **Diagn Cytopathol** 1996 Dec;15(5):409–11

Clinical evaluation of nuclear matrix protein 22 (NMP22) in urine as a novel marker for urothelial cancer. Miyanaga N, et al. **Eur Urol** 1997;31(2):163–8

The efficacy of urinary cytology in the detection of recurrent bladder tumours. Baltaci S, et al. **Int Urol Nephrol** 1996; 28(5):649–53

Urinary nuclear matrix protein as a marker for transitional cell carcinoma of the urinary tract. Carpinito GA, et al. **J Urol** 1996 Oct;156(4):1280–5

Initial evaluation of CYFRA 21-1 diagnostic performances as a urinary marker in bladder transitional cell carcinoma. Pariente JL, et al. **J Urol** 1997 Aug;158(2):338–41

Urinary and tissue levels of scatter factor in transitional cell carcinoma of bladder [see comments] Rosen EM, et al. **J Urol** 1997 Jan;157(1):72–8. Comment in: J Urol 1997 Jan;157(1):83–4.

Interleukin-8 expression in the urine after bacillus Calmette-Guerin therapy: a potential prognostic factor of tumor recurrence and progression. Thalmann GN, et al. **J Urol** 1997 Oct;158(4):1340–4

DNA image analysis of urinary cytology: prediction of recurrent transitional cell carcinoma. de la Roza GL, et al. **Mod Pathol** 1996 May;9(5):571–8

Detection of bladder cancer recurrence by microsatellite analysis of urine. Steiner G, et al. **Nat Med** 1997 Jun; 3(6):621–4

Role of interleukin-8 in onset of the immune response in intravesical BCG therapy for superficial bladder cancer. de Boer EC, et al. **Urol Res** 1997;25(1):31–4

The use of the BTA Test in the detection of persistent or recurrent transitional-cell cancer of the bladder. Sarosdy MF. **World J Urol** 1997;15(2):103–6 (12 ref.)

VETERINARY

Cisplatin treatment of transitional cell carcinoma of the urinary bladder in dogs: 18 cases (1983–1993). Chun R,

et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1588–91
Partial cystectomy for urinary bladder neoplasia: surgical technique and outcome in 11 dogs. Stone EA, et al. **J Small Anim Pract** 1996 Oct;37(10):480–5
High urine concentrations of basic fibroblast growth factor in dogs with bladder cancer. Allen DK, et al. **J Vet Intern Med** 1996 Jul–Aug;10(4):231–4
Metastatic carcinoma of probable transitional cell origin in 66 free-living California sea lions (Zalophus californianus), 1979 to 1994 [published erratum appears in J Wildl Dis 1996 Jul;32(3):564] Gulland FM, et al. **J Wildl Dis** 1996 Apr;32(2):250–8

VIROLOGY

The aetiological significance of human papillomavirus in bladder cancer. Boucher NR, et al. **Br J Urol** 1996 Dec; 78(6):866–9
Presence of human papilloma virus in transitional cell carcinoma in Jewish population in Israel. Smetana Z, et al. **Cell Mol Biol (Noisy-le-grand)** 1995 Dec;41(8):1017–23
Transitional cell and uncommon urothelial carcinoma of renal pelvis/ureter and bladder: low incidence of human papilloma virus. Wang JS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar;59(3):151–7
Human papillomavirus 16 and 18 infection is absent in urinary bladder carcinomas. Lu QL, et al. **Eur Urol** 1997; 31(4):428–32
Human papillomavirus in tissue of bladder and bladder carcinoma specimens. A preliminary study. Ludwig M, et al. **Eur Urol** 1996;30(1):96–102
Human papillomavirus-specific serologic response in vulvar neoplasia. Sun Y, et al. **Gynecol Oncol** 1996 Nov; 63(2):200–3
Frequent association of human papillomavirus 16 and 18 DNA with anal squamous cell and basaloid carcinoma. Vincent-Salomon A, et al. **Mod Pathol** 1996 Jun; 9(6):614–20

CARCINOMA, TUBULAR see **ADENOCARCINOMA**

CARCINOMA, UNDIFFERENTIATED see **CARCINOMA**

CARCINOMA, VERRUCOUS

Verrucous carcinoma or epithelioma cuniculatum plantare. Zielonka E, et al. **Eur J Surg Oncol** 1997 Feb;23(1):86–7

DIAGNOSIS

Uncommon cutaneous neoplasms. Harrington AC, et al. **Md Med J** 1997 May–Jun;46(5):255–62 (48 ref.)
Light-induced fluorescence spectroscopy: a potential diagnostic tool for oral neoplasia. Chen CT, et al. **Proc Natl Sci Counc Repub China B** 1996 Oct;20(4):123–30
Verrucous carcinoma of maxillary antrum. Indudharan R, et al. **Singapore Med J** 1996 Oct;37(5):559–61 (17 ref.)
[Verrucous carcinoma of the penis. A report of 6 new cases and a review of the diagnostic and therapeutic aspects] Clemente Ramos LM, et al. **Actas Urol Esp** 1997 Apr; 21(4):372–6 (31 ref.) (Eng. Abstr.) **(Spa)**

ETIOLOGY

Proliferative verrucous leukoplakia: a follow-up study of 54 cases. Silverman S Jr, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):154–7

HISTORY

President Grover Cleveland's secret operation. Hoang HM, et al. **Am Surg** 1997 Aug;63(8):758–9

PATHOLOGY

Subcutaneous ("inverted") verrucous carcinoma with bone invasion. Yip KM, et al. **Am J Dermatopathol** 1997 Feb; 19(1):83–6
p53 Protein overexpression in verrucous carcinoma of the skin. Noel JC, et al. **Dermatology** 1996;192(1):12–5
Penile verrucous carcinoma in a 37-year-old circumcised man. Kanik AB, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):329–31 (13 ref.)
Verrucous carcinoma of the vulva. Relan S, et al. **J Indian Med Assoc** 1996 Dec;94(12):456, 459
Squamous cell carcinoma associated with a mandibular staple implant. Moxley JE, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):1020–2 (6 ref.)
[Verrucous carcinoma of the larynx. Diagnostic and therapeutic problems (letter)] Daoud J, et al. **Bull Cancer** 1997 Mar;84(3):329–30 **(Fre)**
[Verrucous carcinoma of the penis] López Alcina E, et al. **Actas Urol Esp** 1996 Jun;20(6):560–3 (Eng. Abstr.) **(Spa)**
[Verrucous carcinoma of the larynx. An analysis of 20 years of experience] López Amado M, et al. **An Otorrinolaringol Ibero Am** 1997;24(1):39–48 (Eng. Abstr.) **(Spa)**
[Verrucous carcinoma of the penis: report of two cases] Castillo Jimeno JM, et al. **Arch Esp Urol** 1996 Sep; 49(7):757–60 (Eng. Abstr.) **(Spa)**
[Verrucous carcinoma of the anal margin. The Buschke-Loewenstein tumor] Arcos Navarro A, et al. **Rev Esp Enferm Dig** 1997 Feb;89(2):125–7 (10 ref.) (Eng. Abstr.) **(Spa)**

RADIOTHERAPY

Radiotherapy in the treatment of verrucous carcinoma of the oral cavity. Jyothirmayi R, et al. **Oral Oncol** 1997 Mar; 33(2):124–8

SURGERY

Verrucous carcinoma of the nasal septum and columella. Vico P, et al. **Acta Chir Belg** 1997 Jan–Feb;97(1):50–1
Squamous cell carcinoma of the penis [letter; comment] Hughes PS. **J Am Acad Dermatol** 1997 Apr;36(4):655–6. Comment on: J Am Acad Dermatol 1996 Sep;35(3 Pt 1):432–51.
CO2 laser surgery for verrucous carcinoma of the larynx. Damm M, et al. **Lasers Surg Med** 1997;21(2):117–23
[Verrucous carcinoma of the penis: local excision with the Mohs micrographic technique] Muro Vidaurre I, et al. **Arch Esp Urol** 1996 Nov;49(9):959–64 (39 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Verrucous carcinoma of the penis: three cases treated with interferon-alpha. Maiche AG, et al. **Br J Urol** 1997 Mar; 79(3):481–3
[Verrucous carcinoma of the larynx. Diagnostic and therapeutic problems (letter)] Daoud J, et al. **Bull Cancer** 1997 Mar;84(3):329–30 **(Fre)**

VIROLOGY

Absence of human papillomavirus DNA in verrucous carcinoma [letter] La Placa M Jr, et al. **Dermatology** 1996; 193(3):271–2
HPV-11- and HPV-16-associated oral verrucous carcinoma. Lübbe J, et al. **Dermatology** 1996;192(3):217–21 (35 ref.)
Human papillomavirus and p53 oncoprotein in verrucous carcinoma of the larynx. López-Amado M, et al. **J Laryngol Otol** 1996 Aug;110(8):742–7
An atypical verrucous carcinoma of the tongue arising in a patient with oral lichen planus associated with hepatitis C virus infection. Carrozzo M, et al. **Oral Oncol** 1997 May; 33(3):220–5

CARCINOMATOSIS see **CARCINOMA**

CARCINOSARCOMA

Uterine carcinosarcomas: incidence and trends in management and survival. Arrastia CD, et al. **Gynecol Oncol** 1997 Apr;65(1):158–63

BLOOD SUPPLY

Reduced capacity of tumour blood vessels to produce endothelium-derived relaxing factor: significance for blood flow modification. Tozer GM, et al. **Br J Cancer** 1996 Dec; 74(12):1955–60

CHEMICALLY INDUCED

Uterine carcinosarcoma in association with tamoxifen therapy. McCluggage WG, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):748–50

CHEMISTRY

Distinct patterns of expression of keratinocyte growth factor and its receptor in endometrial carcinoma. Siegfried S, et al. **Cancer** 1997 Mar 15;79(6):1166–71
The hormonal receptor status of uterine carcinosarcomas (mixed müllerian tumours): an immunohistochemical study. Ansink AC, et al. **J Clin Pathol** 1997 Apr;50(4):328–31

DIAGNOSIS

Sarcomatoid carcinomas of the lung: a clinicopathologic review. Wick MR, et al. **Am J Clin Pathol** 1997 Jul; 108(1):40–53 (116 ref.)
Carcinosarcoma of the uterus: magnetic resonance imaging. Takemori M, et al. **Gynecol Obstet Invest** 1997;43(2):139–41
Genetics as a diagnostic tool in sarcomatoid renal-cell cancer. Dijkhuizen T, et al. **Int J Cancer** 1997 Jul 17; 72(2):265–9
Adrenal carcinosarcoma--a case report. Lee MS, et al. **J Korean Med Sci** 1997 Aug;12(4):374–7
[Uncommon tumor and pseudotumor lesions of the submandibular fossa] Vilde F, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(5):285–8 (Eng. Abstr.) **(Fre)**

GENETICS

p53 and K-ras mutational genotyping in pulmonary carcinosarcoma, spindle cell carcinoma, and pulmonary blastoma: implications for histogenesis. Holst VA, et al. **Am J Surg Pathol** 1997 Jul;21(7):801–11
Esophageal carcinosarcoma: a genetic analysis. Iwaya T, et al. **Gastroenterology** 1997 Sep;113(3):973–7
Identical clonality of both components of mammary carcinosarcoma with differential loss of heterozygosity. Zhuang Z, et al. **Mod Pathol** 1997 Apr;10(4):354–62

IMMUNOLOGY

Sarcomatoid carcinoma of the colon. Report of the second case with immunohistochemical study. Isimbaldi G, et al. **Pathol Res Pract** 1996 May;192(5):483–7

METABOLISM

Simultaneous expression of the ras p21 and p53 proteins in human endometrial carcinomas. Miturski R, et al. **Acta Histochem** 1996 Nov;98(4):411–8
Retinoblastoma protein expression in endometrial hyperplasia and carcinoma. Niemann TH, et al. **Gynecol Oncol** 1997 May;65(2):232–6
Carcinosarcoma of the urinary bladder: expression of epithelial markers and different expression of heat shock proteins between epithelial and sarcomatous elements. Kamishima T, et al. **Pathol Int** 1997 Feb–Mar; 47(2–3):166–73

PATHOLOGY

Carcinosarcoma of the skin. Case report and literature review. Biernat W, et al. **Am J Dermatopathol** 1996 Dec; 18(6):614–9 (15 ref.)
Primary metaplastic carcinoma (carcinosarcoma) of the skin. A clinicopathologic study of four cases and review of the literature. Patel NK, et al. **Am J Dermatopathol** 1997 Aug; 19(4):363–72 (24 ref.)
Monoclonal origins of malignant mixed tumors (carcinosarcomas). Evidence for a divergent histogenesis. Thompson L, et al. **Am J Surg Pathol** 1996 Mar; 20(3):277–85
Sarcomatoid carcinoma of the small intestine. Lam KY, et al. **Aust N Z J Surg** 1996 Sep;66(9):636–9 (15 ref.)
Carcinosarcoma of the renal pelvis: a case report with immunohistochemical study. Tseng YJ, et al. **Chang Keng I Hsueh** 1996 Jun;19(2):176–80
Carcinosarcoma of the uterus with extensive neuroectodermal differentiation. Fukunaga M, et al. **Histopathology** 1996 Dec;29(6):565–70
Sarcomatoid Leydig cell tumour of testis. Richmond I, et al. **Histopathology** 1995 Dec;27(6):578–80
Carcinosarcoma in the region of the female urethra. Konno N, et al. **Int J Urol** 1997 Mar;4(2):229–31
Carcinosarcoma of the urinary bladder. Gedikoğlu G, et al. **Int Urol Nephrol** 1996;28(3):333–6
Apoptosis of W256 carcinosarcoma cells of the monocytoid origin induced by NDGA involves lipid peroxidation and depletion of GSH: role of 12-lipoxygenase in regulating tumor cell survival. Tang DG, et al. **J Cell Physiol** 1997 Aug;172(2):155–70
Food and water intakes and Walker tumor growth in rats with hypothalamic lesions. 1965 [classical article] Baillie P, et al. **Nutrition** 1996 Nov–Dec;12(11–12):840; discussion 839, 841
Gastric stump carcinosarcoma with rhabdomyosarcomatous differentiation. Matsukuma S, et al. **Pathol Int** 1997 Jan; 47(1):73–7
Sarcomatoid carcinoma of the colon. Report of the second case with immunohistochemical study. Isimbaldi G, et al. **Pathol Res Pract** 1996 May;192(5):483–7
Double sarcomatoid carcinomas of the oesophagus. Lam KY, et al. **Pathol Res Pract** 1996 Jun;192(6):604–9
Sarcomatoid carcinomas: pathological and histopathogenetic considerations. Guarino M, et al. **Pathology** 1996 Nov; 28(4):298–305 (85 ref.)
Sarcomatoid carcinoma of the ampulla of Vater. Kench JG, et al. **Pathology** 1997 Feb;29(1):89–91
[Carcinosarcoma of the submaxillary gland] Julié C, et al. **Ann Pathol** 1997 Mar;17(1):35–7 (Eng. Abstr.) **(Fre)**
[Carcinosarcoma of the colon, one or two tumors?] Gentile R, et al. **Pathologica** 1997 Feb;89(1):62–8 (Eng. Abstr.) **(Ita)**
[Primary carcinosarcoma of TE lung--a report of two cases] Matsukawa M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):970–7 (24 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Food and water intakes and Walker tumor growth in rats with hypothalamic lesions. 1965 [classical article] Baillie P, et al. **Nutrition** 1996 Nov–Dec;12(11–12):840; discussion 839, 841
Characterization of platelet aggregation induced by the human carcinosarcoma Colo 526: role of platelet activation, tumor cell cytoskeleton and tumor cell plasma membrane. Bradley CJ, et al. **Pathology** 1997 May;29(2):189–95

RADIOGRAPHY

Carcinosarcoma of the extrahepatic bile ducts: cholangiographic and CT appearance. Loud PA, et al. **Abdom Imaging** 1997 Jan–Feb;22(1):85–6
Pulmonary carcinosarcoma: radiologic and pathologic findings in three patients. Kim KI, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):691–4
Carcinosarcoma in the region of the female urethra. Konno N, et al. **Int J Urol** 1997 Mar;4(2):229–31

RADIOTHERAPY

The role of whole-pelvic irradiation in the treatment of early-stage uterine carcinosarcoma. Chi DS, et al. **Gynecol Oncol** 1997 Jun;65(3):493–8 (21 ref.)

CARCINOSARCOMA

SECONDARY

True carcinosarcoma of the colon. Case report. Bertram P, et al. **Langenbecks Arch Chir** 1997;382(3):173–4

SURGERY

Pulmonary carcinosarcoma: diagnostic problems and determinants of the prognosis. Huwer H, et al. **Eur J Cardiothorac Surg** 1996;10(6):403–7

Management of thyroid carcinosarcoma. al-Sobhi SS, et al. **Surgery** 1997 Sep;122(3):548–52 (22 ref.)

[Lung carcinosarcoma--a report of 15 cases] Xu Z, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):119–22 (Eng. Abstr.) **(Chi)**

[A case of so-called carcinosarcoma of the lung] Sano T, et al. **Kyobu Geka** 1996 May;49(5):412–5 (Eng. Abstr.) **(Jpn)**

THERAPY

Preservation of the bystander cytocidal effect of irradiated herpes simplex virus thymidine kinase (HSV-tk) modified tumor cells. Vrionis FD, et al. **J Neurooncol** 1996 Dec; 30(3):225–36

CARCINOSARCOMA 256, WALKER see **CARCINOMA 256, WALKER**

CARDENOLIDES

The role of cardenolides in a crucifer-insect relationship. Renwick JA. **Adv Exp Med Biol** 1996;405:111–21 (52 ref.)

BLOOD

Inhibition of Na,K-ATPase by oleandrin and oleandrigenin, and their detection by digoxin immunoassays. Jortani SA, et al. **Clin Chem** 1996 Oct;42(10):1654–8

Fluorescence detection of cardenolides in reversed-phase high-performance liquid chromatography after post-column derivatization. Belsner K, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):95–107

Interference of oleandrin and oleandrigenin in digitoxin immunoassays: minimal cross reactivity with a new monoclonal chemiluminescent assay and high cross reactivity with the fluorescence polarization assay. Datta P, et al. **Ther Drug Monit** 1997 Aug;19(4):465–9

ISOLATION & PURIFICATION

Cytotoxic cardenolides from woods of Euonymus alata. Kitanaka S, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar; 44(3):615–7

Isolation of cardenolides from a Brazilian cultivar of Digitalis lanata by rotation locular counter-current chromatography. Braga FC, et al. **J Chromatogr A** 1996 Dec 20;756(1–2):287–91

PHARMACOLOGY

Cardenolides from the methanolic extract of Nerium oleander leaves possessing central nervous system depressant activity in mice. Siddiqui BS, et al. **J Nat Prod** 1997 Jun;60(6):540–4

POISONING

Oleander poisoning treated by resin haemoperfusion. Durakovic Z, et al. **J Indian Med Assoc** 1996 Apr; 94(4):149–50

CARDIA

ABNORMALITIES

Closed perforation of the esophagocardiac junction with Bochdalek hernia. Karaca I, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):168–9

METABOLISM

Cardiac effects of AII. AT1A receptor signaling, desensitization, and internalization. Thomas WG, et al. **Adv Exp Med Biol** 1996;396:59–69 (60 ref.)

PATHOLOGY

Precursor lesions for cancer of the cardia. Weinstein WM. **Gastrointest Endosc Clin N Am** 1997 Jan;7(1):19–28 (24 ref.)

PHYSIOLOGY

[Monitoring of the permeability of the inferior esophageal sphincter using sound signals] Lemaire MC, et al. **Arch Physiol Biochem** 1996;104(1):62–70 (Eng. Abstr.) **(Fre)**

SURGERY

Mechanical effect of the Angelchik prosthesis on the competency of the gastric cardia: pathophysiologic implications and surgical perspectives. Bonavina L, et al. **Dis Esophagus** 1997 Apr;10(2):115–8

Incorporation of a flap-valve at cardia, with esophagocardiomyotomy, for achalasia of the esophagus. Sinha KN. **Dis Esophagus** 1997 Jan;10(1):43–6

Resectional surgery in carcinoma of the oesophagus and cardia: what influences long-term survival? Sharpe DA, et al. **Eur J Cardiothorac Surg** 1996;10(5):359–63; discussion 363–4

Management of failed Heller's operations. Kiss J, et al. **Surg Today** 1996;26(7):541–5

Short segment oesophago-cardiomyotomy for achalasia cardia. Sinha S, et al. **Trop Gastroenterol** 1997 Jan–Mar; 18(1):34–6

[Extent of radical surgery in cardia carcinoma--esophagectomy or gastrectomy?] Hölscher AH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:169–72 (Eng. Abstr.) **(Ger)**

[A modified Thal cardioplasty in the management of advanced esophageal achalasia] Caporale A, et al. **G Chir** 1996 Aug-Sep;17(8–9):445–8 (Eng. Abstr.) **(Ita)**

CARDIAC ARREST see **HEART ARREST**

CARDIAC ARREST, INDUCED see **HEART ARREST, INDUCED**

CARDIAC CARE FACILITIES

MANPOWER

[Cardiac surgery in Quebec: Do we have too many centers? Too many surgeons? Too many patients?] Carrier M, et al. **Can J Cardiol** 1997 Feb;13(2):136–40 (Eng. Abstr.) **(Fre)**

ORGANIZATION & ADMINISTRATION

Cardiac care. A line drawn in the sand. Nordhaus-Bike AM. **Hosp Health Netw** 1997 Jun 20;71(12):76, 78

STANDARDS

Using qualitative and quantitative patient satisfaction data to improve the quality of cardiac care. Niles N, et al. **Jt Comm J Qual Improv** 1996 May;22(5):323–35

SUPPLY & DISTRIBUTION

[Cardiac surgery in Quebec: Do we have too many centers? Too many surgeons? Too many patients?] Carrier M, et al. **Can J Cardiol** 1997 Feb;13(2):136–40 (Eng. Abstr.) **(Fre)**

CARDIAC COMPLEXES, PREMATURE

[Significance of ST segment and R wave changes in exercise-induced supraventricular extrasystole] Hönig T, et al. **Orv Hetil** 1996 Jun 30;137(26):1409–13 (Eng. Abstr.) **(Hun)**

[Extrasystole (atrial, atrioventricular junctional, ventricular)] Tanabe T, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (12):259–63 (3 ref.) **(Jpn)**

CHEMICALLY INDUCED

Diuretics, potassium, and ventricular ectopy. Materson BJ. **Am J Hypertens** 1997 May;10(5 Pt 2):68S–72S (37 ref.)

Is the premature beat a capture or an echo? Hancock EW. **Hosp Pract (Off Ed)** 1996 Dec 15;31(12):33–4

DIAGNOSIS

Is the premature beat a capture or an echo? Hancock EW. **Hosp Pract (Off Ed)** 1996 Dec 15;31(12):33–4

Dicrotism: examples and review of the dicrotic pulse. Talley JD. **J Ark Med Soc** 1996 Mar;92(10):507–8

DRUG THERAPY

Is ramipril anti-arrhythmic? [letter] O'Brien MM. **Aust Fam Physician** 1997 Aug;26(8):987

[Clinical trial of propafenone (rytmonorm) in arrhythmia of patients with ischemic heart disease)] Dobrotvorskaia TE, et al. **Klin Med (Mosk)** 1996;74(3):51–3 **(Rus)**

ETIOLOGY

[Genesis, pathophysiology and clinical aspects of cardiac arrhythmias. Characterization of the risk patient] Steinbeck G. **Med Klin** 1997 Apr 15;92(4):192–6 (11 ref.) (Eng. Abstr.) **(Ger)**

PATHOLOGY

[Chronostructure of ectopic heart activity in the acute phase of myocardial infarction] Iakovlev VA, et al. **Klin Med (Mosk)** 1996;74(5):17–20 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Assessing the excitable gap in reentry by resetting. Implications for tachycardia termination by premature stimuli and antiarrhythmic drugs. Fei H, et al. **Circulation** 1996 Nov 1;94(9):2268–77

Postextrasystolic potentiation and dobutamine echocardiography in predicting recovery of myocardial function after coronary bypass revascularization. Scognamiglio R, et al. **Circulation** 1997 Aug 5;96(3):816–20

Dysrhythymia from an intrapericardial air gun pellet: a case report. Willemsen P, et al. **Eur J Cardiothorac Surg** 1996; 10(6):461–2

Thresholds for premature contractions in murine hearts exposed to pulsed ultrasound. MacRobbie AG, et al. **Ultrasound Med Biol** 1997;23(5):761–5

[Late potentials in high resolution ECG in thyroid gland dysfunction] Schippinger W, et al. **Acta Med Austriaca** 1995;22(4):73–74 (Eng. Abstr.) **(Ger)**

SURGERY

[High frequency catheter ablation as therapy of symptomatic ventricular extrasystole] Seidl K, et al. **Z Kardiol** 1997 Mar; 86(3):211–20 (Eng. Abstr.) **(Ger)**

THERAPY

Arrhythmia/ischemia management during minimally invasive cardiac operation. Borges MF, et al. **Ann Thorac Surg** 1997 Sep;64(3):843–4

[The use of extracorporeal blood purification for the treatment of cardiac rhythm disorders] Nedostup AV, et al. **Ter Arkh** 1996;68(4):9–11 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Postextrasystolic potentiation and dobutamine echocardiography in predicting recovery of myocardial function after coronary bypass revascularization. Scognamiglio R, et al. **Circulation** 1997 Aug 5;96(3):816–20

Diagnostic and perinatal management of fetal extrasystole. Respondek M, et al. **Pediatr Cardiol** 1997 Sep-Oct; 18(5):361–6

CARDIAC DEPRESSANTS see **ANTI-ARRHYTHMIA AGENTS**

CARDIAC ELECTROVERSION see **ELECTRIC COUNTERSHOCK**

CARDIAC GLYCOSIDES

[18th European Cardiology Congress. Cardiology 200 years after discovery of digitalis glycosides. Birmingham/UK, 25–29 August 1996] Lindner UK, et al. **Internist (Berl)** 1996 Nov;37(11):1179–85 **(Ger)**

ANALYSIS

Quantitative determination of cardiac glycosides in Digitalis lanata leaves by reversed-phase thin-layer chromatography. Ikeda Y, et al. **J Chromatogr A** 1996 Oct 11;746(2):255–60

BLOOD

High-performance liquid chromatography-ionspray mass spectrometry for the specific determination of digoxin and some related cardiac glycosides in human plasma. Tracqui A, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25; 692(1):101–9

CHEMISTRY

Siberian ginseng toxicity may be case of mistaken identity [comment] Awang DV. **Can Med Assoc J** 1996 Nov 1; 155(9):1237. Comment on: Can Med Assoc J 1996 Aug 1;155(3):293–5.

Cardiac glycosides. Deepak D, et al. **Fortschr Chem Org Naturst** 1996;69:71–155 (160 ref.)

METABOLISM

Isolation of a multispecific organic anion and cardiac glycoside transporter from rat brain. Noé B, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10346–50

PHARMACOLOGY

New cardioactive steroid saponins and other glycosides from Mexican Tribulus cistoides. Achenbach H, et al. **Adv Exp Med Biol** 1996;404:357–70 (17 ref.)

Inhibition of peripheral blood mononuclear cell proliferation by cardiac glycosides. Gentile DA, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):466–72

Antitumor activity of thevetoside in vitro. Zhang X, et al. **Chin Med J (Engl)** 1996 Jun;109(6):478–81

Modulation of cytokine production and protection against lethal endotoxemia by the cardiac glycoside ouabain. Matsumori A, et al. **Circulation** 1997 Sep 2;96(5):1501–6

[The comparative efficacy and differences in the molecular mechanism of the inotropic action of cardiac glycosides and nonglycoside cardiotropic agents on the contractile protein system of the myocardium] Karsanov NV, et al. **Eksp Klin Farmakol** 1996 May-Jun;59(3):28–33 (Eng. Abstr.) **(Rus)**

POISONING

Oleander poisoning treated by resin haemoperfusion. Durakovic Z, et al. **J Indian Med Assoc** 1996 Apr; 94(4):149–50

Kalanchoe lanceolata poisoning in Brahman cattle in Zimbabwe: the first field outbreak. Masvingwe C, et al. **J S Afr Vet Assoc** 1997 Mar;68(1):18–20

TOXICITY

Involvement of a peripheral mechanism in the emesis induced by cardiac glycosides in Suncus murinus. Kakimoto S, et al. **Biol Pharm Bull** 1997 May;20(5):486–9

[Correction with cordaron of changes in beta-glucosidase activity induced by toxic effect of strophanthin K and

simulated heart decompensation] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):645-7 **(Rus)**

[Therapeutic modulation of the cardiotoxic action of cardiac glycosides with electromagnetic emitters alternating with magnetic and electric fields] Grechko AT. **Patol Fiziol Eksp Ter** 1996 Oct-Dec;(4):19-21 (Eng. Abstr.) **(Rus)**

CARDIAC HYPERTROPHY see **HEART HYPERTROPHY**

CARDIAC NEUROSIS see **NEUROCIRCULATORY ASTHENIA**

CARDIAC OUTPUT

Noninvasive cardiac index monitoring in gunshot wound victims. Bishop MH, et al. **Acad Emerg Med** 1996 Jul; 3(7):682-8

Noninvasive hemodynamic monitoring of critical patients in the emergency department. Shoemaker WC, et al. **Acad Emerg Med** 1996 Jul;3(7):675-81

Bioimpedance cardiac output measurements in patients with presumed congestive heart failure. Weiss SJ, et al. **Acad Emerg Med** 1997 Jun;4(6):568-73

Impedance cardiography in cardiac surgery patients: abnormal body weight gives unreliable cardiac output measurements. van der Meer BJ, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):708-12

Thermodilution in medicine. Hahn R. **Acta Anaesthesiol Scand Suppl** 1997;110:137

"Thermodilution"--a flawed method for the measurement of cardiac output. Leksell L, et al. **Acta Anaesthesiol Scand Suppl** 1997;110:139-40

Arguments for the use of thermal indicators to measure whole body blood flow. Takala J. **Acta Anaesthesiol Scand Suppl** 1997;110:138

The accuracy of bioimpedance cardiography in the measurement of cardiac output in comparison with thermodilution method. Wong KL, et al. **Acta Anaesthesiol Sin** 1996 Jun;34(2):55-9

Effect of continuous positive airway pressure on cardiac output in neonates. Hsu HS, et al. **Acta Paediatr Sin** 1996 Sep-Oct;37(5):353-6

Comparison of impedance cardiography to invasive techniques for measurement of cardiac output [letter; comment] Bloch KE, et al. **Am J Cardiol** 1997 Mar 15; 79(6):846. Comment on: Am J Cardiol 1996 Jun 15;77(15):1293-301.

Comparison of Doppler echocardiography with thermodilution for assessing cardiac output in advanced congestive heart failure. Gola A, et al. **Am J Cardiol** 1996 Sep 15;78(6):708-12

Effect of inadequate cardiac output reserve on exercise tolerance in patients with moderate mitral stenosis. Rigolin VH, et al. **Am J Cardiol** 1997 Jul 15;80(2):236-40

Positional effects on maternal cardiac output during labor with epidural analgesia. Danilenko-Dixon DR, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):867-72

Cardiovascular response to stress: baroreflex resetting and hemodynamics. Hatton DC, et al. **Am J Physiol** 1997 May; 272(5 Pt 2):R1588-94

Indicator-dilution dispersion models and cardiac output computing methods. Millard RK. **Am J Physiol** 1997 Apr; 272(4 Pt 2):H2004-12

Noninvasive monitoring of cardiac output in critically ill patients with thoracocardiography. Bloch KE, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):26-31

Comparison of indirect calorimetry and thermodilution cardiac output measurement in children. Capderou A, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1930-4

Wet lungs and impedance cardiography [letter] Critchley LA, et al. **Anaesth Intensive Care** 1997 Jun;25(3):314-5

Estimation of cardiac output by noninvasive echocardiographic techniques in the critically ill subject. McLean AS, et al. **Anaesth Intensive Care** 1997 Jun; 25(3):250-4

A simple method for the continuous noninvasive estimate of cardiac output using the Maxima breathing system. A pilot study. Miller DM, et al. **Anaesth Intensive Care** 1997 Feb;25(1):23-8

Continuous versus intermittent thermodilution cardiac output measurement during orthotopic liver transplantation. Böttiger BW, et al. **Anaesthesia** 1997 Mar;52(3):207-14

The peri-operative use of the oesophageal Doppler monitor in patients undergoing coronary artery revascularisation. A comparison with the continuous cardiac output monitor. Krishnamurthy B, et al. **Anaesthesia** 1997 Jul;52(7):624-9

Continuous cardiac output monitoring during adult liver transplantation: thermal filament technique versus bolus thermodilution. Greim CA, et al. **Anesth Analg** 1997 Sep; 85(3):483-8

Delayed time response of the continuous cardiac output pulmonary artery catheter. Siegel LC, et al. **Anesth Analg** 1996 Dec;83(6):1173-7

Single injection thermodilution. A flow-corrected method. Jansen JR, et al. **Anesthesiology** 1996 Sep;85(3):481-90

Hemodynamic changes after cardioversion of chronic atrial fibrillation. Upshaw CB Jr. **Arch Intern Med** 1997 May 26;157(10):1070-6 (62 ref.)

Validation study of a new transit time ultrasonic flow probe for continuous great vessel measurements. Dean DA, et al. **ASAIO J** 1996 Sep-Oct;42(5):M671-6

Validation of a novel ultrasound dilution method to measure cardiac output during hemodialysis. Kisloukhine VV, et al. **ASAIO J** 1996 Sep-Oct;42(5):M906-7

Validation of a new method to measure cardiac output during extracorporeal detoxification. Nikiforov YV, et al. **ASAIO J** 1996 Sep-Oct;42(5):M903-5

Bileaflet mechanical heart valves at low cardiac output. Wu ZJ, et al. **ASAIO J** 1996 Sep-Oct;42(5):M747-9

Validation of thoracic electrical bioimpedance as a porcine research tool. Broomhead CJ, et al. **Br J Anaesth** 1997 Mar;78(3):323-5

Measurement of cardiac output by transoesophageal Doppler echocardiography in anaesthetized horses: comparison with thermodilution. Young LE, et al. **Br J Anaesth** 1996 Dec; 77(6):773-80

Determination of pulmonary mean transit time and cardiac output using a one-dimensional model. Le Sech C, et al. **Bull Math Biol** 1996 Nov;58(6):1155-70

Cardiac output estimation by visual inspection vs thermodilution during cardiac surgery [see comments] Aye T, et al. **Can J Anaesth** 1997 Feb;44(2):126-30. Comment in: Can J Anaesth 1997 Jul;44(7):786-7.

Continuous oesophageal aortic blood flow echo-Doppler measurement during general anaesthesia in infants. Gueugniaud PY, et al. **Can J Anaesth** 1997 Jul;44(7):745-50

Incorrect analysis of data leads to incorrect conclusions [letter; comment] Hardy JF, et al. **Can J Anaesth** 1997 Jul; 44(7):786-7. Comment on: Can J Anaesth 1997 Feb;44(2):126-30.

The role of the vasculature in regulating venous return and cardiac output: historical and graphical approach. Jacobsohn E, et al. **Can J Anaesth** 1997 Aug;44(8):849-67 (74 ref.)

Where to place the Doppler sample volume in the human main pulmonary artery: evaluated from magnetic resonance phase velocity maps. Sloth E, et al. **Cardiovasc Res** 1997 Jan;33(1):156-63

Estimation of mixed venous PCO2 for determination of cardiac output in children. Jacob SV, et al. **Chest** 1997 Feb;111(2):474-80

Is measurement of cardiac output using impedance cardiography accurate? [letter; comment] Pennock BE. **Chest** 1997 Jun;111(6):1786. Comment on: Chest 1997 Feb;111(2):333-7.

Impedance cardiography accurately measures cardiac output during exercise in children with cystic fibrosis [see comments] Pianosi PT. **Chest** 1997 Feb;111(2):333-7. Comment in: Chest 1997 Jun;111(6):1786.

Noninvasive measurement of cardiac output by an acetylene uptake technique and simultaneous comparison with thermodilution in ICU patients. Sadeh JS, et al. **Chest** 1997 May;111(5):1295-300

Stroke volume and cardiac output in normotensive children and adults. Assessment of relations with body size and impact of overweight. de Simone G, et al. **Circulation** 1997 Apr 1;95(7):1837-43

Negative-pressure ventilation improves cardiac output after right heart surgery. Shekerdemian LS, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II49-55

Automated cardiac output measurement by spatiotemporal integration of color Doppler data. In vitro and clinical validation. Sun JP, et al. **Circulation** 1997 Feb 18; 95(4):932-9

Cardiac output and blood pressure during active and passive standing. Tanaka H, et al. **Clin Physiol** 1996 Mar; 16(2):157-70 (31 ref.)

Evaluation of the tracking potential of a noninvasive estimator of cardiac output. Redling J, et al. **Comput Biol Med** 1996 Jul;26(4):281-95

Determination of oxygen delivery and consumption versus cardiac index and oxygen extraction ratio. Vincent JL. **Crit Care Clin** 1996 Oct;12(4):995-1006 (29 ref.)

Noninvasive determination of cardiac output in a model of acute lung injury. Arnold JH, et al. **Crit Care Med** 1997 May;25(5):864-8

Noninvasive determination of cardiac output using single breath CO2 analysis. Arnold JH, et al. **Crit Care Med** 1996 Oct;24(10):1701-5

Evaluation of a continuous cardiac output and mixed venous oxygen saturation catheter in critically ill surgical patients [see comments] Burchell SA, et al. **Crit Care Med** 1997 Mar;25(3):388-91. Comment in: Crit Care Med 1997 Mar;25(3):381-2.

Partial carbon dioxide rebreathing: a reliable technique for noninvasive measurement of nonshunted pulmonary capillary blood flow. de Abreu MG, et al. **Crit Care Med** 1997 Apr;25(4):675-83

Continuous thermodilution cardiac output: a significant step forward in hemodynamic monitoring [editorial; comment] Edwards JD. **Crit Care Med** 1997 Mar;25(3):381-2. Comment on: Crit Care Med 1997 Mar;25(3):388-91.

Whole-body impedance cardiography in the measurement of cardiac output. Kööbi T, et al. **Crit Care Med** 1997 May; 25(5):779-85

A comparison of hemodynamic parameters derived from transthoracic electrical bioimpedance with those parameters obtained by thermodilution and ventricular angiography [see comments] Marik PE, et al. **Crit Care Med** 1997 Sep;25(9):1545-50. Comment in: Crit Care Med 1997 Sep;25(9):1455.

Electrical bioimpedance for noninvasive measurement of cardiac output [editorial; comment] Weil MH. **Crit Care Med** 1997 Sep;25(9):1455. Comment on: Crit Care Med 1997 Sep;25(9):1545-50.

Redistribution of cardiac output in response to heat exposure in the pony. McConaghy FF, et al. **Equine Vet J Suppl** 1996 Jul;(22):42-6

Long-term recording of cardiac output via an implantable haemodynamic monitoring device. Ohlsson A, et al. **Eur Heart J** 1996 Dec;17(12):1902-10

An evaluation of exercise cardiac output using the CO2 rebreathing extrapolation technique. Rogers GG, et al. **Eur J Appl Physiol** 1997;75(5):431-4

Serial changes in cardiac output during normal pregnancy: a Doppler ultrasound study. Hennessy TG, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27; 70(2):117-22

Cardiac output measurement by thoracic electrical bioimpedance in a patient with ovarian hyperstimulation syndrome. Ryuko K, et al. **Gynecol Obstet Invest** 1996; 41(2):140-2

Smoking and video controller board failure in Baxter-Edwards explorer monitors. **Health Devices** 1997 Jul;26(7):289

Changes in diastolic regional stiffness of the left ventricle before and after coronary artery bypass grafting. Higashita R, et al. **Heart Vessels** 1996;11(3):145-51

Cardiac output technologies. Mantin R, et al. **Int Anesthesiol Clin** 1996 Summer;34(3):79-107 (48 ref.)

Cardiac output in asymptomatic primary hyperparathyroidism: a stigma of early cardiovascular dysfunction? Georgiannos SN, et al. **Int Surg** 1996 Apr-Jun;81(2):171-3

Relief of hypoxemia contributes to a reduction in cardiac index related to the use of positive end-expiratory pressure. Borelli M, et al. **Intensive Care Med** 1996 May;22(5):382-6

Transgastric, pulsed Doppler echocardiographic determination of cardiac output. Descorps-Declere A, et al. **Intensive Care Med** 1996 Jan;22(1):34-8

Measurement of cardiac output by transesophageal echocardiography in mechanically ventilated patients. Comparison with thermodilution. Estagnasié P, et al. **Intensive Care Med** 1997 Jul;23(7):753-9

Analysis of the accuracy of continuous thermodilution cardiac output measurement. Comparison with intermittent thermodilution and Fick cardiac output measurement. Jacquet L, et al. **Intensive Care Med** 1996 Oct;22(10):1125-9

Changes in cardiac output during air ambulance repatriation. Malagon I, et al. **Intensive Care Med** 1996 Dec; 22(12):1396-9

Do cardiac output and serum lactate levels indicate blood transfusion requirements in anemia of prematurity? Möller JC, et al. **Intensive Care Med** 1996 May;22(5):472-6

Relationship of changes in cardiac output to changes in heart rate in medical ICU patients [see comments] Sasse SA, et al. **Intensive Care Med** 1996 May;22(5):409-14. Comment in: Intensive Care Med 1997 Jan;23(1):133-4.

Relationship of changes in cardiac output to changes in heart rate in medical ICU patients [letter; comment] Stratton JD, et al. **Intensive Care Med** 1997 Jan;23(1):133-4. Comment on: Intensive Care Med 1996 May;22(5):409-14.

Heart rate variability correlates negatively with cardiac index in patients with sepsis [letter] Tang GJ, et al. **Intensive Care Med** 1996 May;22(5):514

Impedance cardiography. Importance of the equation and the electrode configuration. van der Meer BJ, et al. **Intensive Care Med** 1996 Oct;22(10):1120-4

Continuous measurement of cardiac output by the Fick principle in infants and children: comparison with the thermodilution method. Wippermann CF, et al. **Intensive Care Med** 1996 May;22(5):467-71 (20 ref.)

Evaluation of K-space segmented cine sequences for fast functional cardiac imaging. Schülen V, et al. **Invest Radiol** 1996 Aug;31(8):512-22

First-pass evaluation of myocardial output during dipyridamole stress using turbo-FLASH magnetic resonance imaging. Tello R, et al. **Invest Radiol** 1996 Nov; 31(11):690-5

Doppler measurement of cardiac output during cardiopulmonary resuscitation. Fodden DI, et al. **J Accid Emerg Med** 1996 Nov;13(6):379-82

Optimal number of beats for the Doppler measurement of cardiac output in atrial fibrillation. Dubrey SW, et al. **J Am Soc Echocardiogr** 1997 Jan-Feb;10(1):67-71

Blood volume and cardiac index in rats after exchange transfusion with hemoglobin-based oxygen carriers. Migita R, et al. **J Appl Physiol** 1997 Jun;82(6):1995-2002

Thermodilution cardiac output measurement during simultaneous volume infusion through the venous infusion port of the pulmonary artery catheter. Griffin K, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):437-9

Evaluation of the accuracy and response time of STAT-mode continuous cardiac output. Lazor MA, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):432-6

Continuous intraoperative noninvasive cardiac output monitoring using a new thoracic bioimpedance device. Thangathurai D, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):440-4

Cardiac output is not affected during intraoperative testing of the automatic implantable cardioverter defibrillator. Meyer J, et al. **J Cardiovasc Electrophysiol** 1996 Mar; 7(3):211-6

CARDIAC OUTPUT

Cardiac output and circulating blood volume analysis by pulse dye-densitometry. Iijima T, et al. **J Clin Monit** 1997 Mar;13(2):81-9

Reproducibility of thermodilution cardiac output determination in critically ill patients: comparison between bolus and continuous method. Le Tulzo Y, et al. **J Clin Monit** 1996 Sep;12(5):379-85

Testing the safety of Baxter continuous cardiac output monitoring system. Lichtenthal PR, et al. **J Clin Monit** 1996 May;12(3):243-9

Comparison of transesophageal echocardiographic, fick, and thermodilution cardiac output in critically ill patients. Axler O, et al. **J Crit Care** 1996 Sep;11(3):109-16

Positive pressure inspiration differentially affects right and left ventricular outputs in postoperative cardiac surgery patients. van den Berg PC, et al. **J Crit Care** 1997 Jun; 12(2):56-65

Heart rate and stroke volume contribution to cardiac output in swimming yellowfin tuna: response to exercise and temperature. Korsmeyer KE, et al. **J Exp Biol** 1997 Jul; 200 (Pt 14):1975-86

Cardiac output in patients with acute stroke. Treib J, et al. **J Neurol** 1996 Aug;243(8):575-8

Relationship between blood pressure and cardiac output in preterm infants requiring mechanical ventilation. Kluckow M, et al. **J Pediatr** 1996 Oct;129(4):506-12

Effect of independent changes in mixed-venous PCO2 or PO2 on cardiac output in anesthetized sheep. Shanley CJ, et al. **J Surg Res** 1997 Aug;71(2):107-16

Age and cardiac output during cycle exercise in thermoneutral and warm environments. Minson CT, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):75-81

Scatter correction for first-pass radiocardiography. Kauppinen T, et al. **Nucl Med Commun** 1996 Nov; 17(11):975-8

Toward physiological pacing: optimization of cardiac hemodynamics by AV delay adjustment [editorial] Ovsyshcher IE. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):861-5

Pressure support ventilation increases cardiac output in neonates and infants. Gullberg N, et al. **Paediatr Anaesth** 1996;6(4):311-5

End-tidal estimates of arterial PCO2 for cardiac output measurement by CO2 rebreathing: a study in patients with cystic fibrosis and healthy controls. Pianosi P, et al. **Pediatr Pulmonol** 1996 Sep;22(3):154-60

The relationship between airway carbon dioxide excretion and cardiac output during cardiopulmonary resuscitation. Blumenthal SR, et al. **Resuscitation** 1997 Jun;34(3):263-70

High-dose adrenaline with low systemic vascular resistance and symmetrical peripheral gangrene. Joynt G, et al. **S Afr J Surg** 1996 May;34(2):99-101

Mathematical coupling and Starling's law of the heart [letter; comment] Chang MC, et al. **Shock** 1997 Mar;7(3):230-1. Comment on: Shock 1996 Nov;6(5):326-9. Comment on: Shock 1996 Nov;6(5):330.

Volumetric assessment of preload in trauma patients: addressing the problem of mathematical coupling [see comments] Chang MC, et al. **Shock** 1996 Nov;6(5):326-9 . Comment in: Shock 1997 Mar;7(3):230-1.

Mathematical coupling and Starling's law of the heart [editorial; comment] [see comments] McNamee JE, et al. **Shock** 1996 Nov;6(5):330. Comment on: Shock 1996 Nov;6(5):326-9. Comment in: Shock 1997 Mar;7(3):230-1.

Increased mediastinal pressure and decreased cardiac output during laparoscopic Nissen fundoplication. Talamini MA, et al. **Surgery** 1997 Aug;122(2):345-52; discussion 352-3

The heart as a self-regulating system: integration of homeodynamic mechanisms. Kresh JY, et al. **Technol Health Care** 1997 Apr;5(1-2):159-69 (30 ref.)

A new technique for monitoring central venous pressures and determining cardiac index in adults. Warring-Davies KJ, et al. **Technol Health Care** 1996 Aug;4(2):233-8

Effects of velocity distribution, diameter measurement and velocity tracing on the accuracy of cardiac output measurement by pulsed Doppler echocardiography in the aortic annulus of pigs. Zhou YQ, et al. **Ultrasound Med Biol** 1997;23(2):177-85

[Continuous measurements of cardiac output in the perioperative period] Andresen EB, et al. **Ugeskr Laeger** 1997 Feb 17;159(8):1094-7 (Eng. Abstr.) **(Dan)**

[Effects of temporary dual-chamber cardiac pacing in refractory cardiac failure] Scanu P, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1643-9 (Eng. Abstr.) **(Fre)**

[Thermal dilution injectors] Hubert P, et al. **Harefuah** 1997 Mar 2;132(5):369-70 **(Heb)**

[Measurement of cardiac output] Yonekura K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:504-6 (4 ref.) **(Jpn)**

DRUG EFFECTS

Large increase in cardiac output in a patient with ARDS and acute right heart failure during inhalation of nitric oxide. Benzing A, et al. **Acta Anaesthesiol Scand** 1997 May; 41(5):643-6

Beneficial effects of a Ca2+ sensitizer, MCI-154, on the myocardial oxygen consumption-cardiac output relation in patients with left ventricular dysfunction after myocardial infarction: comparison with dobutamine and phosphodiesterase inhibitor. Takaoka H, et al. **Am Heart J** 1997 Mar;133(3):283-9

Cardiac output in Xenopus laevis tadpoles during development and in response to an adenosine agonist. Tang YY, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R997-1004

The vasoconstrictor effects of L-NAME, a nitric oxide synthase inhibitor, in pregnant rabbits. Losonczy G, et al. **Br J Pharmacol** 1996 Jun;118(4):1012-8

Influence of levosimendan, pimobendan, and milrinone on the regional distribution of cardiac output in anaesthetized dogs. Pagel PS, et al. **Br J Pharmacol** 1996 Oct; 119(3):609-15

Heart rate and cardiac output after atropine in anaesthetised infants and children. McAuliffe G, et al. **Can J Anaesth** 1997 Feb;44(2):154-9

Reduced capacity of cardiac efferent sympathetic neurons to release noradrenaline and modify cardiac function in tachycardia-induced canine heart failure. Cardinal R, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1070-8

Acute effects of intravenous cocaine on pulmonary artery pressure and cardiac index in habitual crack smokers. Kleerup EC, et al. **Chest** 1997 Jan;111(1):30-5

L-canavanine, an inhibitor of inducible nitric oxide synthase, improves venous return in endotoxemic rats. Fishman D, et al. **Crit Care Med** 1997 Mar;25(3):469-75

Haemodynamic changes during dobutamine stress echocardiography in patients with and without ischaemia. Mishra MB, et al. **Int J Cardiol** 1997 Jan 3;58(1):71-6

Insights into the mechanism of the nitroprusside-induced increase in cardiac output in failing hearts: an attempt at its prediction with Doppler echocardiography. Nagano R, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):343-9

Hemodynamic effects of scatter factor in conscious rats. Yang R, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):294-301

Cardiovascular actions of thrombin receptor activation in vivo. Damiano BP, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1365-78

Effects of adenosine and adenosine analogues on mean circulatory filling pressure and cardiac output in anesthetized rats. Tabrizchi R. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):69-75

A randomized controlled trial of the effect of third-trimester calcium supplementation on maternal hemodynamic function. Boggess KA, et al. **Obstet Gynecol** 1997 Aug; 90(2):157-61

Supranormal cardiac output in the dopamine- and dobutamine-dependent preterm infant. Lopez SL, et al. **Pediatr Cardiol** 1997 Jul-Aug;18(4):292-6

Nociceptin, an endogenous ligand for the ORL1 receptor, decreases cardiac output and total peripheral resistance in the rat. Champion HC, et al. **Peptides** 1997;18(5):729-32

Intravenous NPY (27-36)-D decreases cardiac output in conscious Sprague-Dawley rats. Roscoe AK, et al. **Peptides** 1996;17(3):539-43

Modelling of non-linear pharmacokinetics in sheep after short-term infusion of cardiotoxic doses of imipramine. Meineke I, et al. **Pharmacol Toxicol** 1997 Jun;80(6):266-71

Renal anaemia treatment with recombinant human erythropoietin increases cardiac output in patients with ischaemic heart disease. Linde T, et al. **Scand J Urol Nephrol** 1996 Apr;30(2):115-20

[Relationship among the heart, vasculature and blood volume at perioperative period: the influence of volatile anesthetics] Hoka S. **Masui** 1996 Jun;45(6):707-16 (33 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Maintained cardiac output during positive end-expiratory pressure ventilation in open-chest pigs. Berglund JE, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):618-23

Insertion of a pacing lead via the tricuspid valve does not affect cardiac function and tricuspid valve regurgitation in young dogs. Kikuchi Y, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):32-5

Central command increases cardiac output during static exercise in humans. Williamson JW, et al. **Acta Physiol Scand** 1996 Apr;156(4):429-34

Effect of an irregular ventricular rhythm on cardiac output. Daoud EG, et al. **Am J Cardiol** 1996 Dec 15;78(12):1433-6

Comparison of right ventricular outflow tract and apical lead permanent pacing on cardiac output. Giudici MC, et al. **Am J Cardiol** 1997 Jan 15;79(2):209-12

Cardiac output mediates the antihypertensive effect of vasopressin in spontaneous hypertension. Balakrishnan S, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1728-33

Limitation of cardiac output by a coronary alpha 1-constrictor tone during exercise in dogs. Kim SJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1125-31

Role of cardiac output in mediating arterial blood pressure oscillations. O'Leary DS, et al. **Am J Physiol** 1996 Sep; 271(3 Pt 2):R641-6

Circadian and ultradian control of cardiac output in spontaneous hypertension in rats. Oosting J, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H66-75

Hemodynamic effects of cardiomyoplasty in an experimental model of acute heart failure and atrial fibrillation. Cabrera Fischer EI, et al. **Artif Organs** 1996 Nov;20(11):1215-9

The optimal tidal volume delivered by ventilator after pulmonary resection: its effect on cardiopulmonary hemodynamics. Lee JM, et al. **Artif Organs** 1996 Dec; 20(12):1282-6

Numerical simulation of nonpulsatile left ventricular bypass. Mitsui N, et al. **Artif Organs** 1996 Jun;20(6):632-6

Submaximal exercise VO2 and Qc during 30-day 6 degrees head-down bed rest with isotonic and isokinetic exercise training. Greenleaf JE, et al. **Aviat Space Environ Med** 1996 Apr;67(4):314-9

Comparative effects of acute volume expansion and short-term training on thermal and cardiovascular responses to prolonged exercise. Helyar R, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1087-94

Vascular capacitance and cardiac output in pacing-induced canine models of acute and chronic heart failure. Ogilvie RI, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1641-50

Measuring cardiac output in critically Ill patients: disagreement between thermodilution-, calculated-, expired gas-, and oxygen consumption-based methods. Sherman MS, et al. **Cardiology** 1997 Jan-Feb;88(1):19-25

Prediction of the changes in cardiac output in association with preload reduction therapy in patients with hypertensive heart failure. Nagano R, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):49-56

Cardiac output distribution in the chick embryo from stage 36 to 45. Mulder TL, et al. **Cardiovasc Res** 1997 Jun; 34(3):525-8

The effects of changes in ventilation and cardiac output on expired nitric oxide. Mehta S, et al. **Chest** 1997 Apr; 111(4):1045-9

Basal release of nitric oxide augments the Frank-Starling response in the isolated heart. Prendergast BD, et al. **Circulation** 1997 Aug 19;96(4):1320-9

The non-invasive acetylene rebreathing method for estimation of cardiac output: influence of breath-by-breath variation. Hansen S, et al. **Clin Physiol** 1997 Mar; 17(2):193-202

Validation of the acetylene rebreathing method for measurement of cardiac output at rest and during high-intensity exercise. Liu Y, et al. **Clin Physiol** 1997 Mar; 17(2):171-82

The new pulmonary arterial catheters. Right ventricular ejection fraction and continuous cardiac output. Nelson LD. **Crit Care Clin** 1996 Oct;12(4):795-818 (82 ref.)

Measurement of cardiac output in standing horses by Doppler echocardiography and thermodilution. Blissitt KJ, et al. **Equine Vet J** 1997 Jan;29(1):18-25

Cardiac output and ethanol monitoring of fluid absorption. Hahn RG, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):406-11

Lung diffusion capacity, oxygen uptake, cardiac output and oxygen transport during exercise before and after an himalayan expedition. Steinacker JM, et al. **Eur J Appl Physiol** 1996;74(1-2):187-93

Role of cardiac output in ethanol-evoked attenuation of centrally mediated hypotension in conscious rats. El-Mas MM, et al. **Hypertension** 1997 Aug;30(2 Pt 1):288-94

Spectral analysis of hemodynamics during left ventricular assistance. Yambe T, et al. **Int J Artif Organs** 1996 Jun; 19(6):367-71

Effects of cardiac output on Doppler transmitral and transtricuspid flow velocity patterns in very low birth weight infants. Harada K, et al. **Int J Cardiol** 1996 Oct 25;56(3):227-33

Evaluation of the noninvasive estimates of cardiac output by Doppler aortoechography according to test-theoretical principles. Erb K, et al. **Int J Clin Pharmacol Ther** 1997 Apr;35(4):170-4

Relationships between children's cardiovascular stress responses and resting cardiovascular functioning 1 year later. Malpass D, et al. **Int J Psychophysiol** 1997 Feb; 25(2):139-44

Effects of high-frequency oscillatory ventilation on circulation in neonates with pulmonary interstitial emphysema or RDS. Nelle M, et al. **Intensive Care Med** 1997 Jun;23(6):671-6

Haemodynamic and respiratory conditions during alternating and synchronous ventilation of both lungs. Versprille A, et al. **Intensive Care Med** 1996 Aug;22(8):813-7

Cardiac output and mixed venous oxygen content measurements by a tracer bolus method: theory. Clark JS, et al. **J Appl Physiol** 1997 Sep;83(3):884-96

Changes in stroke volume and maximal aerobic capacity with increased blood volume in men women. Mier CM, et al. **J Appl Physiol** 1996 Apr;80(4):1180-6

Cardiac output estimated noninvasively from oxygen uptake during exercise. Stringer WW, et al. **J Appl Physiol** 1997 Mar;82(3):908-12

Pulmonary tissue volume, cardiac output, and diffusing capacity in sustained microgravity. Verbanck S, et al. **J Appl Physiol** 1997 Sep;83(3):810-6

Estimating exercise stroke volume from asymptotic oxygen pulse in humans. Whipp BJ, et al. **J Appl Physiol** 1996 Dec;81(6):2674-9

Is the heart "empty" at syncope? Novak V, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1-2):83-92

Near continuous cardiac output by thermodilution. Jansen JR, et al. **J Clin Monit** 1997 Jul;13(4):233-9

Effects of continuous positive airway pressure on cardiac output and plasma norepinephrine in sedated pigs. Scharf SM, et al. **J Crit Care** 1996 Jun;11(2):57-64

Orthotopic heart transplantation hemodynamics: does atrial preservation improve cardiac output after transplantation? el-Gamel A, et al. **J Heart Lung Transplant** 1996 Jun; 15(6):564-71

Evaluation of transit-time and electromagnetic flow measurement in a chronically instrumented nonhuman

primate model. Koenig SC, et al. **J Invest Surg** 1996 Nov–Dec;9(6):455–61

The shape of indicator dilution curves used for cardiac output measurement in man. Band DM, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):225–9

Clinical application of cardiac output during ramp exercise calculated using the Fick equation—comparison with the 2–stage bicycle ergometer exercise protocol in the supine position. Yamabe H, et al. **Jpn Circ J** 1997 Jun;61(6):488–94

Cardiac output and urea kinetics in dialysis patients: evidence supporting the regional blood flow model. George TO, et al. **Kidney Int** 1996 Oct;50(4):1273–7

Perinatal left ventricular performance in fetal sheep: interaction between oxygen ventilation and contractility. Berning RA, et al. **Pediatr Res** 1997 Jan;41(1):57–64

Methods of estimating cardiac output in the field. World MJ. **QJM** 1996 Jun;89(6):457–62

Kinetics of oxygen uptake and cardiac output at onset of arm exercise. Koga S, et al. **Respir Physiol** 1996 Feb; 103(2):195–202

A theoretical analysis of factors determining VO2 MAX at sea level and altitude. Wagner PD. **Respir Physiol** 1996 Dec;106(3):329–43

Cardiac outflow tract septation process in the mouse model of transposition of the great arteries. Yasui H, et al. **Teratology** 1997 Jun;55(6):353–63

Improvement of cardiac output and liver blood flow and reduction of pulmonary vascular resistance by intravenous infusion of L–arginine during the early reperfusion period in pig liver transplantation. Längle F, et al. **Transplantation** 1997 May 15;63(9):1225–33

[Cardiac output determination with transpulmonary thermodilution. An alternative to pulmonary catheterization?] von Spiegel T, et al. **Anaesthesist** 1996 Nov;45(11):1045–50 (Eng. Abstr.) **(Ger)**

[Comparison between continuous and intermittent thermodilution measurement of cardiac output during coronary artery bypass operation] Schulz K, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Apr; 32(4):226–33 (Eng. Abstr.) **(Ger)**

[A comparison of various ways of cardiac output measurement by thermodilution methods] Sagara M, et al. **Masui** 1996 Oct;45(10):1212–5 (Eng. Abstr.) **(Jpn)**

[Influence of afterload on the rate of variation of developed pressure (dT/dt). Study in isolated cardiac muscle] Okoshi MP, et al. **Arq Bras Cardiol** 1995 Nov;65(5):417–21 (Eng. Abstr.) **(Por)**

[The distribution of cardiac output in waking rats with a decrease in body temperature to 2.3 degrees C through cooling or hypoxia] Turganbaeva AS, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):65–71 (Eng. Abstr.) **(Rus)**

CARDIAC OUTPUT, HIGH

EPIDEMIOLOGY

[High cardiac output in myeloma patients. Its prevalence and clinical characteristics. The Castile–León Cooperative Group for the Study of Monoclonal Gammapathies] López L, et al. **Med Clin (Barc)** 1997 Feb 15;108(6):214–6 (Eng. Abstr.) **(Spa)**

ETIOLOGY

An unusual cause of the high–output state. Gorden J, et al. **Tenn Med** 1997 May;90(5):197–8

PHYSIOPATHOLOGY

Circuit factors in the high cardiac output of sepsis [see comments] Magder S, et al. **J Crit Care** 1996 Dec; 11(4):155–66. Comment in: J Crit Care 1996 Dec;11(4):151–4.

CARDIAC OUTPUT, LOW

Cardiac failure. **Curr Opin Cardiol** 1996 May;11(3):B53–81

Increase in hospital admission rates for heart failure in The Netherlands, 1980–1993. Reitsma JB, et al. **Heart** 1996 Nov; 76(5):388–92

New Zealand guidelines for the management of chronic heart failure. The National Heart Foundation of New Zealand Cardiac Society of Australia and New Zealand and the Royal New Zealand College of General Practitioners Working Party. **N Z Med J** 1997 Mar 28;110(1040):99–107

[Acute and chronic heart failure] Stejfa M, et al. **Vnitr Lek** 1997 Feb;43(2):105–10 (11 ref.) (Eng. Abstr.) **(Cze)**

BLOOD

Elevated soluble CD14 receptors and altered cytokines in chronic heart failure. Anker SD, et al. **Am J Cardiol** 1997 May 15;79(10):1426–30

Further evidence that chronic perindopril treatment maintains neurohormonal suppression but does not lower blood pressure in chronic cardiac failure. MacFadyen RJ, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):69–76

Serum–soluble interleukin–2 receptor in acute myocardial infarction and in acute heart failure [letter; comment] Blum A, et al. **Circulation** 1997 Mar 18;95(6):1670–1. Comment on: Circulation 1995 Feb 1;91(3):631–4.

Plasma adenosine levels increase in patients with chronic heart failure. Funaya H, et al. **Circulation** 1997 Mar 18; 95(6):1363–5

CHEMICALLY INDUCED

[Pit fall of aprotinin administration during open heart surgery] Irie H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1119–23 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Effects of warfarin on markers of hypercoagulability in patients with heart failure. Jafri SM, et al. **Am Heart J** 1997 Jul;134(1):27–36

Obstruction of ECT seizure by submaximal hyperventilation: a case report. Swartz CM. **Ann Clin Psychiatry** 1996 Mar; 8(1):31–4

Cold stress provokes sympathoinhibitory presyncope in healthy subjects and hemodialysis patients with low cardiac output. Ligtenberg G, et al. **Circulation** 1997 May 6; 95(9):2271–6

ECT in patients with major depressive disorder and low cardiac output. Stern L, et al. **Convuls Ther** 1997 Jun; 13(2):68–73

Improving survival for patients with atrial fibrillation and advanced heart failure. Stevenson WG, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1458–63

Echo–Doppler sonographic diagnosis of hypoxic hepatitis in patients with cardiac failure. Gorka W, et al. **J Ultrasound Med** 1997 Apr;16(4):293–5

[Use of esophageal atrial electrogram and an external Thera VDD pacemaker in atrial–triggered ventricular pacing in acute myocardial infarction complicated by total AV block and low cardiac output] Manfredini R, et al. **G Ital Cardiol** 1996 Nov;26(11):1291–4 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

The pacemaker syndrome — a matter of definition [editorial] Ellenbogen KA, et al. **Am J Cardiol** 1997 May 1; 79(9):1226–9

Dicrotism: examples and review of the dicrotic pulse. Talley JD. **J Ark Med Soc** 1996 Mar;92(10):507–8

Arterial ketone body ratio as a prognostic indicator in acute heart failure. Takahashi M, et al. **J Lab Clin Med** 1997 Jan;129(1):72–80

Rapid assay of plasma brain natriuretic peptide in the assessment of acute dyspnoea. Fleischer D, et al. **N Z Med J** 1997 Mar 14;110(1039):71–4

Postoperative changes in myosin light chain and comparison with postoperative clinical variables in patients who have undergone valve surgery. Hisatomi K, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):296–9

[Heart failure in acute myocardial infarct and the importance of hemodynamic monitoring] Kohn R. **Bratisl Lek Listy** 1996 Aug;97(8):479–81 (Eng. Abstr.) **(Slo)**

DRUG THERAPY

Pharmacologic intervention for acute low cardiac output. Marchetti A, et al. **Adv Card Surg** 1996;7:31–64 (91 ref.)

Heart failure treatment with angiotensin–converting enzyme inhibitors in hospitalized Medicare patients in 10 large states. The Large State Peer Review Organization Consortium. **Arch Intern Med** 1997 May 26;157(10):1103–8

Further evidence that chronic perindopril treatment maintains neurohormonal suppression but does not lower blood pressure in chronic cardiac failure. MacFadyen RJ, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):69–76

Second– and third–generation beta–blocking drugs in chronic heart failure. Bristow MR, et al. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:291–6

Digoxin therapy in chronic heart failure. Gheorghiade M. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:279–83 (31 ref.)

ACE inhibitors in heart failure: prospects and limitations. Pitt B. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:285–90 (42 ref.)

Heart rate and heart rate variability, a pharmacological target. Swynghedauw B, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):677–85 (47 ref.)

Medical treatment of heart failure: the Canadian Cardiovascular Society's Consensus Conference revisited. Vantrimpont P, et al. **Cardiovasc Drugs Ther** 1997 Jan; 10(6):711–6 (27 ref.)

Carvedilol produces dose–related improvements in left ventricular function and survival in subjects with chronic heart failure. MOCHA Investigators [comment] Bristow MR, et al. **Circulation** 1996 Dec 1;94(11):2807–16. Comment on: Circulation 1996 Dec 1;94(11):2793–9. Comment on: Circulation 1996 Dec 1;94(11):2800–6. Comment on: Circulation 1996 Dec 1;94(11):2807–16.

Carvedilol inhibits clinical progression in patients with mild symptoms of heart failure. US Carvedilol Heart Failure Study Group. Colucci WS, et al. **Circulation** 1996 Dec 1; 94(11):2800–6

Comparative hemodynamic, left ventricular functional, and antiadrenergic effects of chronic treatment with metoprolol versus carvedilol in the failing heart. Gilbert EM, et al. **Circulation** 1996 Dec 1;94(11):2817–25

Double–blind, placebo–controlled study of the effects of carvedilol in patients with moderate to severe heart failure. The PRECISE Trial. Prospective Randomized Evaluation of Carvedilol on Symptoms and Exercise. Packer M, et al. **Circulation** 1996 Dec 1;94(11):2793–9

Randomized, double–blind, placebo–controlled study of supplemental oral L–arginine in patients with heart failure [see comments] Rector TS, et al. **Circulation** 1996 Jun 15; 93(12):2135–41. Comment in: Circulation 1997 Mar 18;95(6):1674–5.

Oral L–arginine supplementation in chronic heart failure [letter; comment] Wascher TC, et al. **Circulation** 1997 Mar 18;95(6):1674–5. Comment on: Circulation 1996 Jun 15;93(12):2135–41.

Nitric oxide does not influence tissue oxygen extraction capabilities in low cardiac output [letter; comment] Zhang H, et al. **Crit Care Med** 1997 Jan;25(1):205. Comment on: Crit Care Med 1996 Mar;24(3):482–7.

Optimal treatment of heart failure in the elderly. Doughty R, et al. **Drugs Aging** 1997 Jun;10(6):435–43 (28 ref.)

Beta–blocking agents in heart failure. Should they be used and how? Cleland JG, et al. **Eur Heart J** 1996 Nov; 17(11):1629–39 (90 ref.)

Effects of beta receptor antagonists on left ventricular function in patients with clinical evidence of heart failure after myocardial infarction. A double–blind comparison of metoprolol and xamoterol. Echocardiographic results from the Metoprolol and Xamoterol Infarction Study (MEXIS). Persson H, et al. **Eur Heart J** 1996 May;17(5):741–9

Combined heart failure treatment with ACE inhibition and AT1–receptor blockade [letter] Willenheimer R, et al. **Eur Heart J** 1996 Nov;17(11):1768–9

Design of the cardiac insufficiency bisoprolol study II (CIBIS II). The CIBIS II Scientific Committee. **Fundam Clin Pharmacol** 1997;11(2):138–42

Propranolol therapy in experimental heart failure in rabbits improves cardiac response to catecholamines without beta–adrenoceptor up–regulation. Xiong L, et al. **Fundam Clin Pharmacol** 1995;9(6):522–30

Changing patterns of investigation and treatment of cardiac failure in hospital. Hillis GS, et al. **Heart** 1996 Nov; 76(5):427–9

Acute hemodynamic and long–term clinical effects of isradipine in patients with coronary artery disease and chronic heart failure. A double–blind, placebo–controlled study. van den Toren EW, et al. **Int J Cardiol** 1996 Jan; 53(1):37–43

Increased survival after long–term treatment with mibefradil, a selective T–channel calcium antagonist, in heart failure. Mulder P, et al. **J Am Coll Cardiol** 1997 Feb;29(2):416–21

Do angiotensin–converting enzyme inhibitors prolong life in patients with heart failure treated in clinical practice? [editorial] Packer M. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1323–7 (25 ref.)

Value of digoxin in heart failure and sinus rhythm: new features of an old drug? van Veldhuisen DJ, et al. **J Am Coll Cardiol** 1996 Oct;28(4):813–9 (99 ref.)

Nitric oxide in the treatment of acute right ventricular failure after surgical correction of tetralogy of Fallot [letter] Booker PD, et al. **J Cardiothorac Vasc Anesth** 1996 Dec; 10(7):973–4

Pharmacologic management of heart failure among older adults by office–based physicians in the United States. Croft JB, et al. **J Fam Pract** 1997 Apr;44(4):382–90

Determining the optimum dose for the intravenous administration of nicardipine in the treatment of acute heart failure—a multicenter study. The Nicardipine Heart Failure Study Group. Hirota Y, et al. **Jpn Circ J** 1997 May; 61(5):367–74

Follow–up study of patients randomly allocated ramipril or placebo for heart failure after acute myocardial infarction: AIRE Extension (AIREX) Study. Acute Infarction Ramipril Efficacy. Hall AS, et al. **Lancet** 1997 May 24; 349(9064):1493–7

Inhibition of myocardial endothelin pathway improves long–term survival in heart failure. Sakai S, et al. **Nature** 1996 Nov 28;384(6607):353–5

[Cardiomyocytes in cardiovascular decompensation and drugs with nuclear action (editorial)] Moruzzi P. **Cardiologia** 1995 Oct;40(10):711–2 **(Ita)**

[Pharmacological correction of low cardiac output syndrome in hemofiltration] Nikiforov IuV, et al. **Anesteziol Reanimatol** 1997 May–Jun;(3):87–9 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Increased inducible nitric oxide synthase in skeletal muscle biopsies from patients with chronic heart failure. Adams V, et al. **Biochem Mol Med** 1997 Aug;61(2):152–60

Protein kinase C isoform expression in normal and failing rabbit hearts. Rouet–Benzineb P, et al. **Circ Res** 1996 Aug; 79(2):153–61

Expression of inducible nitric oxide synthase in human heart failure [letter; comment] de Belder A, et al. **Circulation** 1997 Mar 18;95(6):1672–3. Comment on: Circulation 1996 Mar 15;93(6):1087–94.

Creatine kinase system in failing and nonfailing human myocardium. Nascimben L, et al. **Circulation** 1996 Oct 15; 94(8):1894–901

Depletion of energy reserve via the creatine kinase reaction during the evolution of heart failure in cardiomyopathic hamsters. Tian R, et al. **J Mol Cell Cardiol** 1996 Apr; 28(4):755–65

CARDIAC OUTPUT, LOW

EPIDEMIOLOGY

Supranormal cardiac output in the dopamine- and dobutamine-dependent preterm infant. Lopez SL, et al. **Pediatr Cardiol** 1997 Jul-Aug;18(4):292-6

[The low cardiac output syndrome after valve-conserving operations under hypothermia without perfusion] Naumenko SE, et al. **Vestn Khir Im I I Grek** 1997; 156(1):58-61 (Eng. Abstr.) **(Rus)**

ETIOLOGY

The pacemaker syndrome -- a matter of definition [editorial] Ellenbogen KA, et al. **Am J Cardiol** 1997 May 1; 79(9):1226-9

The transition to failure in the spontaneously hypertensive rat. Mitchell GF, et al. **Am J Hypertens** 1997 May;10(5 Pt 2):120S-126S (13 ref.)

Left atrial systolic and diastolic function after cessation of pacing in tachycardia-induced heart failure. Hoit BD, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H921-7

Chronic heart failure induced by coronary artery ligation in Lewis inbred rats. Liu YH, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H722-7

Venoarterial shunting for the treatment of right sided circulatory failure after left ventricular assist device placement. Goldstein DJ, et al. **ASAIO J** 1997 May-Jun; 43(3):171-6

Role of cAMP in modulating relaxation kinetics and the force-frequency relation in mitral regurgitation heart failure. Mulieri LA, et al. **Basic Res Cardiol** 1997;92 Suppl 1:95-103

Aorto-left atrial fistula. A reversible cause of acute refractory heart failure. Archer TP, et al. **Chest** 1997 Mar; 111(3):828-31 (17 ref.)

Fulminant myocardial failure in a previously healthy young man [clinical conference] Chevalier P, et al. **Circulation** 1997 Mar 18;95(6):1654-7

Prolonged enteroviral infection in a patient who developed pericarditis and heart failure after bone marrow transplantation. Galama JM, et al. **Clin Infect Dis** 1996 Jun; 22(6):1004-8

Heart failure patients: why do they fatigue, how do they get better? [editorial; comment] Coats AJ. **Eur Heart J** 1996 Nov;17(11):1615-7. Comment on: Eur Heart J 1996 Nov;17(11):1678-85.

Effects of beta receptor antagonists on left ventricular function in patients with clinical evidence of heart failure after myocardial infarction. A double-blind comparison of metoprolol and xamoterol. Echocardiographic results from the Metoprolol and Xamoterol Infarction Study (MEXIS). Persson H, et al. **Eur Heart J** 1996 May;17(5):741-9

The influence of risk on the results of warm heart surgery: a substudy of a randomized trial. Christakis GT, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):515-20

Role of polymorphonuclear leukocytes in cardiovascular depression and cellular injury in hemorrhagic shock and reinfusion. Kapoor R, et al. **Free Radic Biol Med** 1996; 21(5):609-18

Alcohol consumption and heart failure in hypertensives. Olubodun JO, et al. **Int J Cardiol** 1996 Jan;53(1):81-5

Severe cerebral and cardiac dysfunction associated with thyroid decompensation after cardiac operations. Appoo JJ, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):496

Low cardiac output syndrome complicating subxiphoid pericardiostomy for pericardial effusion [letter; comment] Dosios T, et al. **J Thorac Cardiovasc Surg** 1997 Jan; 113(1):220. Comment on: J Thorac Cardiovasc Surg 1995 Mar;109(3):546-51; discussion 551-2. Comment on: J Thorac Cardiovasc Surg 1996 Feb;111(2):489.

Arrhythmias and sudden death in heart failure. Stevenson WG, et al. **Jpn Circ J** 1997 Sep;61(9):727-40 (115 ref.)

A boy with heart failure, a thick tongue, and double vision. Karsten J, et al. **Lancet** 1997 May 24;349(9064):1516

The heart and thyroid disease [clinical conference] Ladenson PW. **Mt Sinai J Med** 1996 Mar;63(2):118-25

Absent pulmonary valve with intact ventricular septum presenting as cardiorespiratory failure at birth. Horigome H, et al. **Pediatr Cardiol** 1997 Mar-Apr;18(2):136-8

Cardiovascular collapse due to intravenous verapamil in two patients with persistent atrial tachycardia. Lawrenson JB, et al. **S Afr Med J** 1995 Nov;85(11 Suppl):1236-8

[An unusual case of cardiac insufficiency] Ezingeard E, et al. **Rev Mal Respir** 1996 Dec;13(6):591-3 (Eng. Abstr.) **(Fre)**

[Clinical evaluation of low cardiac output syndrome following adult open heart surgery] Kazui T, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):252-7 (Eng. Abstr.) **(Jpn)**

[Pacemaker syndrome] Mitsui T. **Ryoikibetsu Shokogun Shirizu** 1996;(12):490-3 (6 ref.) **(Jpn)**

-Rate-responsive pacemaker with an unexpected chronotropic response- Petrucci O Jr, et al. **Arq Bras Cardiol** 1996 Mar;66(3):153-5 (Eng. Abstr.) **(Por)**

[Anesthesia for laparoscopic cholecystectomy with CO2: comparison of hemodynamic and ventilatory behavior using 2 different anesthetic techniques (letter; comment)] Sabaté A, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul; 43(6):227-8. Comment on: Rev Esp Anestesiol Reanim 1996 Jan;43(1):12-6. **(Spa)**

GENETICS

Decreased gene expression of neuronal nitric oxide synthase in hypothalamus and brainstem of rats in heart failure. Patel KP, et al. **Brain Res** 1996 Sep 23;734(1-2):109-15

Fatty acid oxidation enzyme gene expression is downregulated in the failing heart. Sack MN, et al. **Circulation** 1996 Dec 1;94(11):2837-42

METABOLISM

Nitric oxide production during exercise in chronic heart failure. Adachi H, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):196-202

Role of maximal oxygen consumption in establishment of heart transplant candidacy for heart failure patients with intermediate exercise tolerance. Kao W, et al. **Am J Cardiol** 1997 Apr 15;79(8):1124-7

Skeletal muscle beta-adrenoreceptors and phosphate metabolism abnormalities in heart failure in rats. Chati Z, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1739-45

Atrial and pulmonary endothelin mRNA is increased in a canine model of chronic low cardiac output. Wei CM, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R838-44

Calcium handling proteins in the failing human heart. Hasenfuss G, et al. **Basic Res Cardiol** 1997;92 Suppl 1:87-93 (50 ref.)

Expression and function of the cardiac Na+/Ca2+ exchanger in postnatal development of the rat, in experimental-induced cardiac hypertrophy and in the failing human heart. Studer R, et al. **Basic Res Cardiol** 1997; 92 Suppl 1:53-8 (34 ref.)

Maximal actomyosin ATPase activity and in vitro myosin motility are unaltered in human mitral regurgitation heart failure. Nguyen TT, et al. **Circ Res** 1996 Aug;79(2):222-6

Heart failure in rats causes changes in skeletal muscle morphology and gene expression that are not explained by reduced activity. Simonini A, et al. **Circ Res** 1996 Jul; 79(1):128-36

Troponin I phosphorylation in the normal and failing adult human heart. Bodor GS, et al. **Circulation** 1997 Sep 2; 96(5):1495-500

Physiological and biochemical evidence for coordinate increases in muscarinic receptors and Gi during pacing-induced heart failure. Vatner DE, et al. **Circulation** 1996 Jul 1;94(1):102-7

Mitochondrial encephalopathy, lactic acidosis, and stroke-like episodes (MELAS). Di Trapani G, et al. **Clin Neuropathol** 1997 Jul-Aug;16(4):195-200

Biochemical analysis of muscle biopsy in overnight fasting patients with severe chronic heart failure. Opasich C, et al. **Eur Heart J** 1996 Nov;17(11):1686-93

Cardiac energy metabolism at several stages of adriamycin-induced heart failure in rats. Kawasaki N, et al. **Int J Cardiol** 1996 Aug;55(3):217-25

Gastric intramucosal pH: a predictor of survival in cardiac surgery patients with low cardiac output? Böhrer H, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):184-6

Myosin light chain phosphorylation in cardiac hypertrophy and failure due to myocardial infarction. Liu X, et al. **J Mol Cell Cardiol** 1995 Dec;27(12):2613-21

MORTALITY

Relation of daily activity levels in patients with chronic heart failure to long-term prognosis. Walsh JT, et al. **Am J Cardiol** 1997 May 15;79(10):1364-9

Carvedilol produces dose-related improvements in left ventricular function and survival in subjects with chronic heart failure. MOCHA Investigators [comment] Bristow MR, et al. **Circulation** 1996 Dec 1;94(11):2807-16. Comment on: Circulation 1996 Dec 1;94(11):2793-9. Comment on: Circulation 1996 Dec 1;94(11):2800-6. Comment on: Circulation 1996 Dec 1;94(11):2807-16.

The importance of abnormalities of liver function tests in predicting mortality in chronic heart failure. Batin P, et al. **Eur Heart J** 1995 Nov;16(11):1613-8

Coronary artery bypass surgery in women and in men; early and long-term results. A study of the Norwegian population adjusted by age and sex. Risum O, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):539-46

Improving survival for patients with atrial fibrillation and advanced heart failure. Stevenson WG, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1458-63

Using electronic medical records to predict mortality in primary care patients with heart disease: prognostic power and pathophysiologic implications [see comments] Tierney WM, et al. **J Gen Intern Med** 1996 Feb;11(2):83-91. Comment in: J Gen Intern Med 1996 Feb;11(2):130-1.

PATHOLOGY

Effects of ACE inhibition and beta-blockade on skeletal muscle fiber types in dogs with moderate heart failure. Sabbah HN, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H115-20

Heart failure in rats causes changes in skeletal muscle morphology and gene expression that are not explained by reduced activity. Simonini A, et al. **Circ Res** 1996 Jul; 79(1):128-36

Electrophysiologic and morphologic abnormalities in the failing heart: effect of enalapril on the electrical properties. De Mello WC, et al. **J Card Fail** 1997 Mar;3(1):53-61

A reliable, efficient, and comprehensive approach to assess myocyte remodeling in cardiac hypertrophy and failure. Gerdes AM. **J Card Fail** 1997 Mar;3(1):63-8

[Cardiomyocytes in cardiovascular decompensation and drugs with nuclear action (editorial)] Moruzzi P. **Cardiologia** 1995 Oct;40(10):711-2 **(Ita)**

[Heart insufficiency, ventricular fibrillation and hepatic insufficiency in an old woman] **Medicina (B Aires)** 1996; 56(3):291-8 **(Spa)**

PHYSIOPATHOLOGY

Low cardiac output abolishes cardiovascular responses to infra-renal aortic cross-clamping in the pig. Seeman-Lodding H, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):232-8

Evaluation of contractile reserve by dobutamine echocardiography: noninvasive estimation of the severity of heart failure. Marmor A, et al. **Am Heart J** 1996 Dec; 132(6):1195-201

Enhanced SR function in saponin-treated ventricular trabeculae from rabbits with heart failure. Denvir MA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H850-9

Left atrial systolic and diastolic function after cessation of pacing in tachycardia-induced heart failure. Hoit BD, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H921-7

Atrial natriuretic peptide and sodium homeostasis in compensated heart failure. Lohmeier TE, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1353-63

Peripheral artery structure and endothelial function in heart failure: effect of ACE inhibition. Mulder P, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H469-77

Impairment of cGMP- and cAMP-mediated vasorelaxations in rats with chronic heart failure. Nasa Y, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2228-37

Dynamics of muscle sympathetic nerve activity in advanced heart failure patients. Nguyen AH, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1962-9

Neural influences on renal responses to acute volume expansion in rats with heart failure. Patel KP, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1441-8

Chemoreceptor dependence of very low frequency rhythms in advanced chronic heart failure. Ponikowski P, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H438-47

Enhanced responsiveness of cardiac vagal chemosensitive endings to bradykinin in heart failure. Schultz HD, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R637-45

Hemodynamic effects of anesthesia in patients with ischemic heart failure chronically treated with angiotensin-converting enzyme inhibitors. Ryckwaert F, et al. **Anesth Analg** 1997 May;84(5):945-9

Role of cAMP in modulating relaxation kinetics and the force-frequency relation in mitral regurgitation heart failure. Mulieri LA, et al. **Basic Res Cardiol** 1997;92 Suppl 1:95-103

Vascular capacitance and cardiac output in pacing-induced canine models of acute and chronic heart failure. Ogilvie RI, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1641-50

Origins of symptoms in heart failure. Coats AJ. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:265-72 (65 ref.)

Exercise and heart failure. A review. Piña IL, et al. **Chest** 1996 Nov;110(5):1317-27 (67 ref.)

Characterization of the hyperpolarization-activated current, I(f), in ventricular myocytes from human failing heart. Cerbai E, et al. **Circulation** 1997 Feb 4;95(3):568-71

Carvedilol inhibits clinical progression in patients with mild symptoms of heart failure. US Carvedilol Heart Failure Study Group. Colucci WS, et al. **Circulation** 1996 Dec 1; 94(11):2800-6

Predicting outcomes in severe heart failure [editorial; comment] De Marco T, et al. **Circulation** 1997 Jun 17; 95(12):2597-9. Comment on: Circulation 1997 Jun 17;95(12):2660-7.

Coupling of hemodynamic measurements with oxygen consumption during exercise does not improve risk stratification in patients with heart failure. Mancini D, et al. **Circulation** 1996 Nov 15;94(10):2492-6

Physical training and endothelial function in patients with chronic heart failure [letter; comment] Nugent AG, et al. **Circulation** 1996 Dec 1;94(11):2988-9. Comment on: Circulation 1996 Jan 15;93(2):210-4.

Effects of MCI-154, a calcium sensitizer, on left ventricular systolic and diastolic function in pacing-induced heart failure in the dog. Teramura S, et al. **Circulation** 1997 Feb 4;95(3):732-9

Tonic chemoreflex activation does not contribute to elevated muscle sympathetic nerve activity in heart failure. van de Borne P, et al. **Circulation** 1996 Sep 15;94(6):1325-8

Absence of low-frequency variability of sympathetic nerve activity in severe heart failure. van de Borne P, et al. **Circulation** 1997 Mar 18;95(6):1449-54

Circulatory status and response to cardiac rehabilitation in patients with heart failure. Wilson JR, et al. **Circulation** 1996 Oct 1;94(7):1567-72

Markedly improved skeletal muscle function with local muscle training in patients with chronic heart failure. Gordon A, et al. **Clin Cardiol** 1996 Jul;19(7):568-74

Cardiopulmonary determinants of functional capacity in patients with chronic heart failure compared with normals. Meyer K, et al. **Clin Cardiol** 1996 Dec;19(12):944-8

The importance of abnormalities of liver function tests in predicting mortality in chronic heart failure. Batin P, et

al. **Eur Heart J** 1995 Nov;16(11):1613–8
Exercise intolerance in patients with chronic heart failure. Piepoli M, et al. **Eur Heart J** 1995 Nov;16(11):1744–5
Diastolic dysfunction and natriuretic peptides in systolic heart failure. Higher ANP and BNP levels are associated with the restrictive filling pattern [see comments] Yu CM, et al. **Eur Heart J** 1996 Nov;17(11):1694–702. Comment in: Eur Heart J 1996 Nov;17(11):1617–8.
Walking performance and economy in chronic heart failure patients pre and post exercise training. Beneke R, et al. **Eur J Appl Physiol** 1997;75(3):246–51
Angiotensin II blockade [corrected] enhances baroreflex control of sympathetic outflow in heart failure [published erratum appears in Hypertension 1997 May;29(5):1211] Murakami H, et al. **Hypertension** 1997 Feb;29(2):564–9
Leg blood flow, metabolism and exercise capacity in chronic stable heart failure. Clark A, et al. **Int J Cardiol** 1996 Jul 26;55(2):127–35
Myocardial sympathetic denervation prevents chamber-specific alteration of beta-adrenergic transmembrane signaling in rabbits with heart failure. Anzai T, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1314–22
Prognostic value of heart rate variability during long-term follow-up in patients with mild to moderate heart failure. The Dutch Ibopamine Multicenter Trial Study Group. Brouwer J, et al. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1183–9
Acute unloading of the work of breathing extends exercise duration in patients with heart failure. Mancini D, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):590–6
Prognostic value of noninvasively obtained left ventricular contractile reserve in patients with severe heart failure. Marmor A, et al. **J Am Coll Cardiol** 1997 Feb;29(2):422–8
Do angiotensin-converting enzyme inhibitors prolong life in patients with heart failure treated in clinical practice? [editorial] Packer M. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1323–7 (25 ref.)
Jugular venous pressure monitoring: a lost art? [editorial] Cohn JN. **J Card Fail** 1997 Jun;3(2):71–3
Electrophysiologic and morphologic abnormalities in the failing heart: effect of enalapril on the electrical properties. De Mello WC, et al. **J Card Fail** 1997 Mar;3(1):53–61
Force-frequency relations in the failing rabbit heart and responses to adrenergic stimulation. Ryu KH, et al. **J Card Fail** 1997 Mar;3(1):27–39
Effects of ranolazine on the exercise capacity of rats with chronic heart failure induced by myocardial infarction. Aaker A, et al. **J Cardiovasc Pharmacol** 1996 Sep; 28(3):353–62
Determinants of depressed left ventricular ejection fraction in pure mitral stenosis with preserved sinus rhythm. Surdacki A, et al. **J Heart Valve Dis** 1996 Jan;5(1):1–9
Alteration in diaphragmatic function during cardiac insufficiency: potential pharmacology modulation. Aubier M. **J Mol Cell Cardiol** 1996 Nov;28(11):2293–302 (64 ref.)
The "muscle hypothesis" of chronic heart failure. Coats AJ. **J Mol Cell Cardiol** 1996 Nov;28(11):2255–62 (49 ref.)
Coronary endothelial dysfunction precedes heart failure and reduction of coronary reserve in awake dogs. Knecht M, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):217–27
Role of skeletal muscle in the syndrome of chronic heart failure. Poole-Wilson PA, et al. **J Mol Cell Cardiol** 1996 Nov;28(11):2275–85 (120 ref.)
Evaluation of skeletal muscle fatigue in patients with heart failure. Wilson JR. **J Mol Cell Cardiol** 1996 Nov; 28(11):2287–92 (22 ref.)
Impact of age and gender on peak oxygen uptake in chronic heart failure. Pardaens K, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):733–7
Hepatic and gastrointestinal oxygen and lactate metabolism during low cardiac output in lambs. Fahey JT, et al. **Pediatr Res** 1997 Jun;41(6):842–51

PREVENTION & CONTROL

[The treatment of accompanied organ failure after thoracic and cardiovascular surgery with mechanical organ-supports] Tsukamoto M, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):472–7 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Neuronal dysfunction in heart failure assessed by cardiac 123-iodine metaiodobenzylguanidine scintigraphy. Somsen GA, et al. **Int J Card Imaging** 1996 Dec;12(4):305–10

REHABILITATION

Circulatory status and response to cardiac rehabilitation in patients with heart failure. Wilson JR, et al. **Circulation** 1996 Oct 1;94(7):1567–72
Markedly improved skeletal muscle function with local muscle training in patients with chronic heart failure. Gordon A, et al. **Clin Cardiol** 1996 Jul;19(7):568–74

SURGERY

Role of maximal oxygen consumption in establishment of heart transplant candidacy for heart failure patients with intermediate exercise tolerance. Kao W, et al. **Am J Cardiol** 1997 Apr 15;79(8):1124–7
Cardiac binding in experimental heart failure. Vaynblat M, et al. **Ann Thorac Surg** 1997 Jul;64(1):81–5
Venoarterial shunting for the treatment of right sided circulatory failure after left ventricular assist device placement. Goldstein DJ, et al. **ASAIO J** 1997 May-Jun; 43(3):171–6
Surgical management of heart failure [editorial] Taggart DP, et al. **BMJ** 1997 Feb 15;314(7079):453–4
Predicting outcomes in severe heart failure [editorial; comment] De Marco T, et al. **Circulation** 1997 Jun 17; 95(12):2597–9. Comment on: Circulation 1997 Jun 17;95(12):2660–7.
Multicenter trial of dynamic cardiomyoplasty for chronic heart failure. The American Cardiomyoplasty Group [see comments] Furnary AP, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1175–80. Comment in: J Am Coll Cardiol 1996 Nov 1;28(5):1181–2.
Cardiomyoplasty: is it time to wrap it up? [editorial; comment] Leier CV. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1181–2. Comment on: J Am Coll Cardiol 1996 Nov 1;28(5):1175–80.
Pericardial "suspenders" to enhance right latissimus dorsi cardiomyoplasty. Lorusso R, et al. **J Card Surg** 1996 Jan-Feb;11(1):46–8
Pericardiectomy and coronary artery bypass grafting for constrictive pericarditis after heart surgery. Sugimoto T, et al. **Jpn Circ J** 1996 Mar;60(3):177–80
[Veno-arterial bypass and intraaortic balloon pumping for profound right heart failure--a case report of perioperative right heart infarction] Utoh J, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):1027–32 (Eng. Abstr.) **(Jpn)**

THERAPY

Clinical status of patients removed from a transplant waiting list rivals that of transplant recipients at significant cost savings. Levine TB, et al. **Am Heart J** 1996 Dec; 132(6):1189–94
A comprehensive management system for heart failure improves clinical outcomes and reduces medical resource utilization. West JA, et al. **Am J Cardiol** 1997 Jan 1; 79(1):58–63
MEDOS HIA-VAD biventricular assist device for bridge to recovery in fulminant myocarditis. Martin J, et al. **Ann Thorac Surg** 1997 Apr;63(4):1145–6
Continuous venovenous haemofiltration in neonates with renal insufficiency resulting from low cardiac output syndrome after cardiac surgery. Leyh RG, et al. **Cardiovasc Surg** 1996 Aug;4(4):520–5
Heart failure therapy in evolution [editorial] Chatterjee K. **Circulation** 1996 Dec 1;94(11):2689–93
The continuing evolution of mechanical ventricular assistance. Argenziano M, et al. **Curr Probl Surg** 1997 Apr; 34(4):317–86 (220 ref.)
Safer approach to transthoracic intra-aortic balloon cannulation [letter; comment] Santini F, et al. **Eur J Cardiothorac Surg** 1996;10(10):928. Comment on: Eur J Cardiothorac Surg 1995;9(10):602–3.
Intraaortic balloon pumping for cardiac support: trends in practice and outcome, 1968 to 1995. Torchiana DF, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):758–64; discussion 764–9
[Coronary heart disease and impaired left ventricular function in patients over 80 years of age--is bypass operation justified?] Brandt M, et al. **Z Kardiol** 1996 Jan;85(1):6–11 (Eng. Abstr.) **(Ger)**
[Clinical evaluation of low cardiac output syndrome following adult open heart surgery] Kazui T, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):252–7 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Evaluation of contractile reserve by dobutamine echocardiography: noninvasive estimation of the severity of heart failure. Marmor A, et al. **Am Heart J** 1996 Dec; 132(6):1195–201
Changing patterns of investigation and treatment of cardiac failure in hospital. Hillis GS, et al. **Heart** 1996 Nov; 76(5):427–9
Simplified echocardiography in the diagnosis of heart failure. Willenheimer RB, et al. **Scand Cardiovasc J** 1997;31(1):9–16

CARDIAC PACEMAKER, ARTIFICIAL see **PACEMAKER, ARTIFICIAL**

CARDIAC PACING, ARTIFICIAL

see related
PACEMAKER, ARTIFICIAL

Usefulness of isoproterenol in the induction of clinical sustained ventricular tachycardia during electrophysiological study. de Meester A, et al. **Acta Cardiol** 1997;52(1):67–74
The complications of thoracic surgery: prophylaxis and treatment of arrhythmias. Van Mieghem W. **Acta Cardiol** 1995;50(5):381–6 (11 ref.)
Percutaneous removal of a fractured and extruded telectronics accufix atrial retention wire: new approach preserving pacing function. Saito H, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1334–6
Relation of pacing-induced coronary resistance vessel dilation to total serum cholesterol and heart rate-blood pressure product. Anderson TJ, et al. **Am J Cardiol** 1997 Jul 1;80(1):16–20
P-wave morphology during right atrial pacing before and after atrial flutter ablation--a new marker for success. Hamdan MH, et al. **Am J Cardiol** 1997 May 15; 79(10):1417–20
Effects of nadolol and its combination with atrial pacing on rate-enhanced ventricular premature complexes. Pitzalis MV, et al. **Am J Cardiol** 1996 Nov 15;78(10):1177–9
Effect of varying pacing waveform shapes on propagation and hemodynamics in the rabbit heart. Thakor NV, et al. **Am J Cardiol** 1997 Mar 20;79(6A):36–43
Left atrial function and atrial natriuretic factor/cyclic guanosine monophosphate changes in DDD and VVI pacing modes. Theodorakis GN, et al. **Am J Cardiol** 1997 Feb 1;79(3):366–70
Left atrial systolic and diastolic function after cessation of pacing in tachycardia-induced heart failure. Hoit BD, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H921–7
Natriuretic peptide responses to acute and chronic ventricular pacing in sheep. Rademaker MT, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H594–602
Rapid atrial pacing for detecting provokable demand ischemia in anesthetized patients [see comments] Seeberger MD, et al. **Anesth Analg** 1997 Jun;84(6):1180–5. Comment in: Anesth Analg 1997 Jun;84(6):1177–9.
Isoflurane, but not halothane, improves indices of diastolic performance in dogs with rapid ventricular, pacing-induced cardiomyopathy. Pagel PS, et al. **Anesthesiology** 1996 Sep;85(3):644–54
Transesophageal atrial pacing as a trigger for intraaortic balloon pumping [letter; comment] Roth JV. **Anesthesiology** 1997 Jan;86(1):264–5. Comment on: Anesthesiology 1996 Feb;84(2):473.
Termination of implantable pacemaker therapy: experience in five patients. Iskos D, et al. **Ann Intern Med** 1997 May 15;126(10):787–90
Permanent cardiac pacing for reflex anoxic seizure [letter] Sreeram N, et al. **Arch Dis Child** 1996 Nov;75(5):462
Arterial and venous paragangliomas: the value of a preoperative pacemaker and a multidisciplinary approach. al-Ebrahim K, et al. **Br J Neurosurg** 1997 Jun;11(3):233–7
Pacing strategies to prevent atrial fibrillation. Fahy GJ, et al. **Cardiol Clin** 1996 Nov;14(4):591–6 (44 ref.)
Sympathetic influences on electrical and mechanical alternans in the canine heart. Euler DE, et al. **Cardiovasc Res** 1996 Nov;32(5):854–60
Coronary artery surgery with induced temporary asystole and intermittent ventricular pacing: an experimental study. Khanna R, et al. **Cardiovasc Surg** 1996 Apr;4(2):231–6
Use of temporary atrial pacing in management of patients after cardiac surgery. Takeda M, et al. **Cardiovasc Surg** 1996 Oct;4(5):623–7
Successful coronary pace-termination of ventricular tachycardia during coronary angioplasty [see comments] Goode G, et al. **Cathet Cardiovasc Diagn** 1997 Sep; 42(1):31–2. Comment in: Cathet Cardiovasc Diagn 1997 Sep;42(1):33.
Hemodynamic changes pre- and post-pacing with complete heart block and aortic valve stenosis and regurgitation. Karim MA, et al. **Cathet Cardiovasc Diagn** 1996 Feb; 37(2):178–83
Pacing in the left heart--often forgotten because rarely needed [editorial; comment] Meier B. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):33. Comment on: Cathet Cardiovasc Diagn 1997 Sep;42(1):31–2.
Pacing-induced chronic atrial fibrillation impairs sinus node function in dogs. Electrophysiological remodeling. Elvan A, et al. **Circulation** 1996 Dec 1;94(11):2953–60
Hemodynamic effects of chronic prenatal ventricular pacing for the treatment of complete atrioventricular block. Liddicoat JR, et al. **Circulation** 1997 Aug 5;96(3):1025–30
Spatial resolution of atrial pace mapping as determined by unipolar atrial pacing at adjacent sites. Man KC, et al. **Circulation** 1996 Sep 15;94(6):1357–63
Local capture by atrial pacing in spontaneous chronic atrial fibrillation. Pandozi C, et al. **Circulation** 1997 May 20; 95(10):2416–22
Modulation of atrial repolarization by site of pacing in the isolated rabbit heart. Wood MA, et al. **Circulation** 1996 Sep 15;94(6):1465–70
Electrocardiographic evidence of ischemia during ventricular paced rhythms. Diaz CF, et al. **Clin Cardiol** 1996 Jun; 19(6):520–2
High-rate cardiac pacing increases blood pressure and decreases right atrial pressure in patients with hemodynamic significant acute right ventricular myocardial infarction and bradyarrhythmia. Vrouchos GT, et al. **Clin Cardiol** 1997 Jan;20(1):41–6
Oversensing of atrial flutter in the recipient atrium of a heart transplant patient with a permanent atrial pacemaker. Woodard DA, et al. **Clin Cardiol** 1996 Jul;19(7):597–8
Pacing therapy for atrial tachyarrhythmias. Zhu DW, et al. **Clin Cardiol** 1996 Sep;19(9):737–42 (45 ref.)
The use of pacemakers in the treatment of cardiomyopathies. Symanski JD, et al. **Curr Probl Cardiol** 1996 Jun; 21(6):385–443 (77 ref.)
Pacemakers. Ferguson TB Jr. **Curr Probl Surg** 1997 Jan; 34(1):1–108 (130 ref.)
Unravelling the electrical mysteries of atrial fibrillation. Allessie MA, et al. **Eur Heart J** 1996 Jul;17 Suppl C:2–9 (5 ref.)
What is the role of pacing in dilated cardiomyopathy?

Brecker SJ, et al. **Eur Heart J** 1996 Jun;17(6):819–24 (18 ref.)

Evaluation of atrial vulnerability with transoesophageal stimulation in patients with atrioventricular junctional reentrant tachycardia. Comparison with patients with ventricular pre-excitation and with normal subjects. D'Este D, et al. **Eur Heart J** 1995 Nov;16(11):1632–6

Facilitating influence of procainamide on conversion of atrial flutter by rapid atrial pacing. Heisel A, et al. **Eur Heart J** 1997 May;18(5):866–9

Non-pharmacological treatment of supraventricular arrhythmias. Josephson ME, et al. **Eur Heart J** 1996 Jul; 17 Suppl C:26–34 (52 ref.)

Clinical challenge. I: Control of recurrent symptomatic atrial fibrillation. Reimold SC. **Eur Heart J** 1996 Jul;17 Suppl C:35–40 (23 ref.)

Effect of milrinone and atrial pacing on stunned myocardium. Schad H, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1125–32

Problems and pitfalls in evaluating studies for pacing in heart failure. Auricchio A, et al. **G Ital Cardiol** 1997 Jun; 27(6):593–9 (42 ref.)

Exercise capacity after His bundle ablation and rate response ventricular pacing for drug refractory chronic atrial fibrillation. Buys EM, et al. **Heart** 1997 Mar;77(3):238–41

Oxygen uptake kinetics during low intensity exercise: relevance for rate adaptive pacemaker programming. Lewalter T, et al. **Heart** 1997 Feb;77(2):168–72

Effects of permanent dual chamber pacing on myocardial perfusion in symptomatic hypertrophic cardiomyopathy. Posma JL, et al. **Heart** 1996 Oct;76(4):358–62

Myocardial oxygen supply:demand ratio as reference for coronary vasodilatory drug effects in humans. Vergroesen I, et al. **Heart** 1997 Aug;78(2):117–26

Heart rate and heart rate variability changes induced by right atrial pacing. Fuenmayor AJ, et al. **Int J Cardiol** 1996 Apr 19;54(1):21–5

Response to pacing at sites of isolated diastolic potentials during ventricular tachycardia in patients with previous myocardial infarction. Bogun F, et al. **J Am Coll Cardiol** 1997 Aug;30(2):505–13

Behavior of late potentials on the body surface during programmed ventricular stimulation. Ho DS, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1283–91

Importance of nitric oxide in the coronary artery at rest and during pacing in humans. Nishikawa Y, et al. **J Am Coll Cardiol** 1997 Jan;29(1):85–92

Long-term effect of right ventricular pacing on myocardial perfusion and function. Tse HF, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):744–9

Measurement of atrial refractoriness dispersion: is there a better way? [letter; comment] Wang L. **J Am Coll Cardiol** 1997 Jan;29(1):228. Comment on: J Am Coll Cardiol 1996 Jun;27(7):1713–21.

Myocardial contractility of the canine left ventricle during unsynchronized dual chamber pacing. Hosoya K, et al. **J Cardiol** 1997 Jun;29(6):337–43

High-rate atrial pacing as an innovative bridging therapy in a neonate with congenital long QT syndrome. Tanel RE, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):812–7

Case study: analysis of dual chamber rate responsive pacing in atrial fibrillation. McCauley KM, et al. **J Cardiovasc Nurs** 1997 Jan;11(2):82–5

Dysrhythmia update. Case study: analysis of dual chamber rate responsive pacing in atrial fibrillation. McCauley KM, et al. **J Cardiovasc Nurs** 1997 Apr;11(3):93–6

Differential class III antiarrhythmic effects of ambasilide and dofetilide at different extracellular potassium and pacing frequencies. Gjini V, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):314–20

Evidence that atrial natriuretic peptide tissue extraction is not changed by large increases in its plasma levels induced by pacing in humans. Iervasi G, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):884–8

Development of an MRI-compatible catheter for pacing the heart: initial in vitro and in vivo results [see comments] Jerzewski A, et al. **J Magn Reson Imaging** 1996 Nov–Dec; 6(6):948–9. Comment in: J Magn Reson Imaging 1997 May–Jun;7(3):612.

Time course of the protection against ischaemia and reperfusion-induced ventricular arrhythmias resulting from brief periods of cardiac pacing. Kaszala K, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2085–95

Electrophysiology of rabbit ventricular myocytes following sustained rapid ventricular pacing. Rozanski GJ, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):721–32

The modulation of pacing-induced changes in intracellular sodium levels by extracellular Ca2+ in isolated perfused rat hearts. Simor T, et al. **J Mol Cell Cardiol** 1997 Apr; 29(4):1225–35

The loss of pacing-induced preconditioning in atherosclerotic rabbits: role of hypercholesterolaemia. Szilvassy Z, et al. **J Mol Cell Cardiol** 1995 Dec; 27(12):2559–69

Assessment of the optimal atrioventricular delay in dual chamber-paced patients by a portable scintillation probe (VEST). Mortelmans L, et al. **J Nucl Cardiol** 1996 Jul–Aug; 3(4):321–6

Splitting of high right atrial potentials in atrial flutter with rapid pacing. Tanoiri T, et al. **Jpn Circ J** 1995 Dec; 59(12):775–85

Early pacemaker implantation in patients with familial amyloidotic polyneuropathy [letter] Ando Y, et al. **Muscle Nerve** 1996 Dec;19(12):1640–1

Survey of Waikato medical practitioners concerning cardiac pacing. Devlin GP, et al. **N Z Med J** 1996 Nov 22; 109(1034):444–7

Cumulative index volumes 1–19, 1978–1996. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 2):2179–296

Europace '97. VIIIth Congress of the Working Groups on Cardiac Pacing and Cardiac Arrhythmias of the European Society of Cardiology. Athens, Greece, June 8–11, 1997. Abstracts. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 2):1383–601

North American Society of Pacing and Electrophysiology 18th annual scientific sessions. New Orleans, Louisiana, May 7–10, 1997. Abstracts. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 2):1050–235

North American Society of Pacing and Electrophysiology 17th annual scientific sessions. Seattle, Washington, May 15–18, 1996. Abstracts. **Pacing Clin Electrophysiol** 1996 Apr;19(4 Pt 2):527–745

Electrophysiological findings in idiopathic recurrent ventricular fibrillation: special reference to mode of induction, drug testing, and long-term outcomes. Aizawa Y, et al. **Pacing Clin Electrophysiol** 1996 Jun;19(6):929–39

Permanent pacing in Ebstein's anomaly. Allen MR, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1243–6

Acute hemodynamic improvement by pacing in patients with severe congestive heart failure. Auricchio A, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):313–24

A conceptual basis for pacing waveforms. Cleland BG. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1177–85

Transient entrainment: the evolution of a medical concept from description to prescription. Cooper MW. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1162–76

Pacing and hypertrophic obstructive cardiomyopathy [editorial] Daubert JC. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1141–2

The impact of a dedicated "syncope and falls" clinic on pacing practice in northeastern England. Dey AB, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):815–7

Transvalvular impedance (TVI) recording under electrical and pharmocological cardiac stimulation. Di Gregorio F, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1689–93

Antitachycardia pacing in patients with implantable cardioverter defibrillators: how many attempts are useful? Fries R, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 2):198–202

Maintenance of atrial fibrillation in anesthetized and unanesthetized sheep using cholinergic drive. Geddes LA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):165–75

Refractory period extension during ventricular pacing at fibrillatory pacing rates. Gill RM, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):647–53

Antitachycardia pacing. Gillette PC. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2121–4 (15 ref.)

The use of left ventricular epicardial surface velocity patterns as a marker of pacing site. McInerney JJ, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1619–27

Spatial resolution and role of pacemapping during ablation of accessory pathways. Molin F, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):683–94

Band-limited morphometric analysis of the intracardiac signal: implications for antitachycardia devices. Morris MM, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):34–42

Cardiac pacing for vasovagal syncope: a reasonable therapeutic option? Petersen ME, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):824–6 (12 ref.)

VDD pacing in children with congenital complete heart block: advantages of a single pass lead. Rosenthal E, et al. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2102–6

Recent advances in the electrocardiographic diagnosis of myocardial infarction: left bundle branch block and pacing. Sgarbossa EB. **Pacing Clin Electrophysiol** 1996 Sep; 19(9):1370–9 (37 ref.)

First steps toward a pacing algorithm for vasovagal syncope. Sutton R, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):827–8

Effect of dual chamber atrioventricular sequential pacing on coronary flow velocity in a patient with hypertrophic obstructive cardiomyopathy. Takeuchi M, et al. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 1):2153–5

Ventricular standstill and cardiac percussion [see comments] Dowdle JR. **Resuscitation** 1996 Jul;32(1):31–2. Comment in: Resuscitation 1996 Jul;32(1):3–4.

Permanent pacing for asystole of the donor heart after heterotopic heart transplantation. Kalife G, et al. **Tex Heart Inst J** 1997;24(1):64–7

[Recent advances in cardiac pacing] Godin JF, et al. **Ann Cardiol Angeiol (Paris)** 1996 Oct;45(8):430–8 (33 ref.) (Eng. Abstr.) **(Fre)**

[Predictive factors of induction of ventricular arrhythmia under amiodarone] Bourret N, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1277–81 (Eng. Abstr.) **(Fre)**

[Kearns-Sayre syndrome. A rare indication for prophylactic cardiac pacing] Lewy P, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):93–7 (Eng. Abstr.) **(Fre)**

[First experience in treatment of terminal cardiac insufficiency using multisite stimulation] Cazeau S, et al. **Bull Acad Natl Med** 1996 Dec;180(9):2065–75; discussion 2075–8 (Eng. Abstr.) **(Fre)**

[Model based study of myocardial stimulation mechanisms] Weiss I, et al. **Biomed Tech (Berl)** 1997 Jan–Feb; 42(1–2):16–23 (Eng. Abstr.) **(Ger)**

[Different kinds of atrial flutter after transesophageal stimulation: two case reports] Ducceschi V, et al. **Cardiologia** 1995 Oct;40(10):779–81 **(Ita)**

[Diagnosis of coronary disease using multiplane transesophageal echocardiography and atrial pacing] Memmola CD, et al. **Cardiologia** 1997 Mar;42(3):293–8 (Eng. Abstr.) **(Ita)**

[Use of esophageal atrial electrogram and an external Thera VDD pacemaker in atrial-triggered ventricular pacing in acute myocardial infarction complicated by total AV block and low cardiac output] Manfredini R, et al. **G Ital Cardiol** 1996 Nov;26(11):1291–4 (Eng. Abstr.) **(Ita)**

[Isolated infarction of the right ventricle caused by occlusion of the non-dominant right coronary artery. Role of sequential atrioventricular stimulation] De Benedictis M, et al. **Minerva Cardioangiol** 1996 Oct;44(10):495–8 (Eng. Abstr.) **(Ita)**

[Influence of atrioventricular delay on pulmonary capillary wedge pressure in two patients with hypertrophic obstructive cardiomyopathy during dual chamber pacing] Ochiai K, et al. **J Cardiol** 1997 Feb;29(2):103–9 (Eng. Abstr.) **(Jpn)**

[Long-term beneficial effect of dual chamber pacing in a patient with hypertrophic obstructive cardiomyopathy] Takahashi M, et al. **J Cardiol** 1997 Jun;29(6):345–52 (Eng. Abstr.) **(Jpn)**

[DDD pacemaker implantation in the patient underwent Maze procedure] Watanabe H, et al. **Kyobu Geka** 1997 Mar; 50(3):235–8 (Eng. Abstr.) **(Jpn)**

[Efficacy of permanent pacing in the management of patients with paroxysmal atrial fibrillation] Mizutani N. **Nippon Rinsho** 1996 Aug;54(8):2144–9 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Management of permanent pacemaker implantation in elderly patients] Satani O, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb;34(2):110–3 (Eng. Abstr.) **(Jpn)**

[Impact of electric cardiac stimulation on ventricular function and the natural history of patients with myocardiopathy] Tascón JC, et al. **Rev Esp Cardiol** 1996 Aug;49(8):598–608 (72 ref.) (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Congenital long-QT syndrome: deleterious effect of long-term high-rate ventricular pacing and definitive treatment by cardiac transplantation. Klein HO, et al. **Am Heart J** 1996 Nov;132(5):1079–81

Effects of right ventricular pacing on ventriculoatrial conduction and systemic venous responses in sick sinus patients. Kong CW, et al. **Angiology** 1996 Oct;47(10):973–80

Atrioventricular pacing does not increase infarct size in the in situ rabbit heart. Kyriakides ZS, et al. **Can J Cardiol** 1997 Jun;13(6):603–6

Does a hypertonic saline load predict fluid retention in pacing induced heart failure? Fu Y, et al. **Cardiovasc Res** 1997 Jan;33(1):172–80

Myocardial infarct size is smaller in dogs with pacing-induced heart failure. Hoskins DE, et al. **Cardiovasc Res** 1996 Aug;32(2):238–47

Mitral valve replacement for pacing-induced severe mitral regurgitation after radiofrequency ablation of the atrioventricular junction [letter] Le Tourneau T, et al. **Heart** 1996 Nov;76(5):457

Biatrial appendage hypertrophy but not ventricular hypertrophy: a unique feature of canine pacing-induced heart failure. Moe GW, et al. **J Card Fail** 1996 Jun; 2(2):127–32

Inadvertent but asymptomatic right atrial perforation with epicardial pacing in a neonate: a rare complication of temporary transvenous cardiac pacing. Reddy SC, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):368–9

Pacing induced ventricular fibrillation in internal cardioverter defibrillator patients: a new form of proarrhythmia. Vlay LC, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):132–3

Surgical treatment for right ventricular perforation caused by transvenous pacing electrodes: a report of three cases. Asano M, et al. **Surg Today** 1996;26(11):933–5

[Endless loop tachycardia] Ohnishi S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):529–31 (12 ref.) **(Jpn)**

ECONOMICS

Cardiac electrophysiology: a cost-effective approach. DiMarco JP. **Clin Cardiol** 1996 Jul;19(7):575–8

Assessing practice expense for cardiac pacing and electrophysiology: reaching a point of no return? Saksena S, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):980–1

The economics of treating vasovagal syncope. Sutton R, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):849–50

Cost effectiveness in health care [letter] Tyers GF. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1890–2

HISTORY

From the first endocardial electrogram to the ablative techniques. Half a century of cardiac electrophysiology. Grosgogeat Y, et al. **Acta Cardiol** 1996;51(3):203–34

INSTRUMENTATION see PACEMAKER, ARTIFICIAL

METHODS

ANP concentrations during interchanging DDD–VVI pacing modes in patients with retrograde ventriculoatrial conduction. Papadopoulos CL, et al. **Acta Cardiol** 1997; 52(1):37–47

Ventricular pacing with a novel gastroesophageal electrode: a comparison with external pacing. McEneaney DJ, et al. **Am Heart J** 1997 Jun;133(6):674–80

Comparison of right ventricular outflow tract and apical lead permanent pacing on cardiac output. Giudici MC, et al. **Am J Cardiol** 1997 Jan 15;79(2):209–12

The acute hemodynamic effects of right ventricular septal pacing in patients with congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Gold MR, et al. **Am J Cardiol** 1997 Mar 1;79(5):679–81

A new approach for DDD(R) pacing using a single-pass DDD lead. Naegeli B, et al. **Am J Cardiol** 1997 Sep 1; 80(5):643–5

Failure of single- and multisite high-frequency atrial pacing to terminate atrial fibrillation. Paladino W, et al. **Am J Cardiol** 1997 Jul 15;80(2):226–7

Feasibility and sensing thresholds of temporary single-lead VDD pacing in intensive care. Voightländer T, et al. **Am J Cardiol** 1997 May 15;79(10):1360–3

Hemodynamic effects of different pacing ratios in chronic dynamic double cardiomyoplasty. Soltero ER, et al. **Ann Thorac Surg** 1996 Nov;62(5):1380–7

Preperitoneal suprahepatic pacemaker generator placement in the pediatric population. Young JN, et al. **Ann Thorac Surg** 1997 May;63(5):1486–8

Stroke in paced patients with sick sinus syndrome: relevance of atrial mechanical function, pacing mode and clinical characteristics. Mattioli AV, et al. **Cardiology** 1997 May–Jun;88(3):264–70

DDD(R) pacing with automatic mode switch in patients with paroxysmal atrial fibrillation following AV nodal ablation. Schuchert A, et al. **Cardiology** 1997 Jul–Aug;88(4):323–7

Dual-chamber versus ventricular pacing. Critical appraisal of current data. Connolly SJ, et al. **Circulation** 1996 Aug 1;94(3):578–83 (53 ref.)

Effect of coupling interval and pacing cycle length on morphology of paced ventricular complexes. Implications for pace mapping. Goyal R, et al. **Circulation** 1996 Dec 1;94(11):2843–9

Images in cardiovascular medicine. Dual-chamber pacing in a patient with hypertrophic cardiomyopathy. Nishimura RA, et al. **Circulation** 1997 Sep 2;96(5):1701

DDD pacing and obstructive hypertrophic cardiomyopathy [letter] Schavone WA, et al. **Circulation** 1996 Oct 1; 94(7):1789–90

Direct conversion of atrial flutter to sinus rhythm with low-output, short-duration transesophageal atrial pacing. Ajisaka H, et al. **Clin Cardiol** 1997 Sep;20(9):762–6

Contemporary issues in rate-adaptive pacing. Barold SS, et al. **Clin Cardiol** 1997 Aug;20(8):726–9 (35 ref.)

Atrioventricular sequential pacing in cardiac amyloidosis: an acute Doppler echocardiographic and catheterization hemodynamic study. Mathew V, et al. **Clin Cardiol** 1997 Aug;20(8):723–5

Evaluation and treatment strategies in patients at high risk of sudden death post myocardial infarction. Underwood RD, et al. **Clin Cardiol** 1997 Sep;20(9):753–8 (60 ref.)

Initial experience with dual-sensor rate-responsive pacemakers in children [see comments] Celiker A, et al. **Eur Heart J** 1996 Aug;17(8):1251–5. Comment in: Eur Heart J 1996 Aug;17(8):1136–7.

Management with a staged approach of the premature hydropic fetus due to complete congenital heart block. Deloof E, et al. **Eur J Pediatr** 1997 Jul;156(7):521–3

Percutaneous transhepatic dual chamber pacing in children with Fontan circulation. Adwani SS, et al. **Heart** 1997 Jun; 77(6):574–5

A study comparing VVI and DDI pacing in elderly patients with carotid sinus syndrome. McIntosh SJ, et al. **Heart** 1997 Jun;77(6):553–7

Impact of continuous quality improvement on selection of pacing mode and rate of complications in permanent pacing. Møller JE, et al. **Heart** 1997 Apr;77(4):357–62

Left atrial appendage function during DDD and VVI pacing. Simantirakis EN, et al. **Heart** 1997 May;77(5):428–31

Selection of optimal pacing mode. Bathina MN, et al. **Indian Heart J** 1997 Mar–Apr;49(2):135–45 (55 ref.)

Transvenous right ventricular pacing through coronary sinus in the absence of right superior vena cava. Gambhir DS, et al. **Indian Heart J** 1996 Jul–Aug;48(4):401–2

Time-limited efficacy of pacing electrodes following open heart surgery. Kosmas CE, et al. **Indian Heart J** 1996 Nov–Dec;48(6):681–4

Blind atrial pacing for patients with sinus node disease who develop atrial fibrillation during permanent pacemaker implantation. Fyfe T, et al. **Int J Cardiol** 1997 Jan 31; 58(2):188–91

A peculiar form of pacemaker syndrome in DDD pacing. Simoncelli U, et al. **Int J Cardiol** 1996 Jan;53(1):90–3

Unobstructed thinking (and terminology) is called for in the understanding and management of hypertrophic cardiomyopathy [editorial;comment] Criley JM. **J Am Coll Cardiol** 1997 Mar 15;29(4):741–3. Comment on: J Am Coll Cardiol 1997 Mar 15;29(4):734–40.

Is mode switching beneficial? A randomized study in patients with paroxysmal atrial tachyarrhythmias. Kamalvand K, et al. **J Am Coll Cardiol** 1997 Aug;30(2):496–504

Dual-chamber pacing for hypertrophic cardiomyopathy: a randomized, double-blind, crossover trial. Nishimura RA, et al. **J Am Coll Cardiol** 1997 Feb;29(2):435–41

Acute effects of dual-site right atrial pacing in patients with spontaneous and inducible atrial flutter and fibrillation. Prakash A, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1007–14

Effects of dual-chamber pacing for pediatric patients with hypertrophic obstructive cardiomyopathy [see comments] Rishi F, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):734–40 . Comment in: J Am Coll Cardiol 1997 Mar 15;29(4):741–3.

Exploring postinfarction reentrant ventricular tachycardia with entrainment mapping. Stevenson WG, et al. **J Am Coll Cardiol** 1997 May;29(6):1180–9

Higher sympathetic nerve activity during ventricular (VVI) than during dual-chamber (DDD) pacing. Taylor JA, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1753–8

Effect of high intensity drive train stimulation on dispersion of atrial refractoriness: role of autonomic nervous system. Yu WC, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1000–6

Prospective evaluation of the effect of biphasic waveform defibrillation on ventricular pacing thresholds. Kudenchuk PJ, et al. **J Cardiovasc Electrophysiol** 1997 May;8(5):485–95

Randomised trial of temporary cardiac pacing with semirigid and balloon-flotation electrode catheters [letter] Ferguson JD, et al. **Lancet** 1997 Jun 28;349(9069):1883

Dual-chamber pacing for cardiomyopathies: a 1996 clinical perspective. Nishimura RA, et al. **Mayo Clin Proc** 1996 Nov;71(11):1077–87 (47 ref.)

Energy parameters in cardiac pacing should be abandoned. Barold SS, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):112–21 (88 ref.)

Clinical experience with Thera DR rate-drop response pacing algorithm in carotid sinus syndrome and vasovagal syncope. The International Rate-Drop Investigators Group. Benditt DG, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):832–9

The rate-drop response in carotid sinus syndrome: the Newcastle experience. Bexton RS, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):840

Mode switch despite undersensing of atrial fibrillation in DDD pacing. Bonnet JL, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1724–8

Analysis of atrial sensed far-field ventricular signals: a reassessment. Brouwer J, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):916–22

Acute hemodynamic effects of atrioventricular pacing at differing sites in the right ventricle individually and simultaneously. Buckingham TA, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):909–15

Right ventricular outflow tract pacing [editorial] Buckingham TA. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1237–42 (35 ref.)

Vibration, acceleration, gravitation, and movement: activity controlled rate adaptive pacing during treadmill exercise testing and daily life activities. Candinas R, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1777–86

Multisite pacing for end-stage heart failure: early experience. Cazeau S, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1748–57

Noninvasive beat-to-beat arterial blood pressure measurement during VVI and DDD pacing: relationship to symptomatic benefit from DDD pacing. Channon KM, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):25–33

Type II atrial flutter interruption with transesophageal pacing: use of propafenone and possible change of the substrate. Doni F, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1958–61

Reproducibility of transesophageal pacing in patients with Wolff-Parkinson-White syndrome. Fenici R, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1951–7

A comparison of quality-of-life in patients with dual chamber pacemakers and individually programmed atrioventricular delays [see comments] Frielingsdorf J, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1147–54. Comment in: Pacing Clin Electrophysiol 1997 Apr;20(4 Pt 1):999–1001.

Rate-drop response programming. Gammage MD. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):841–3

Tilt testing: a useful screen for rate-drop response. Gammage MD. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):829–31

The value of DDD pacing in patients with an implantable cardioverter defibrillator. Geelen P, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 2):177–81

Ventricular protection against atrial arrhythmias in DDD pacing based on a statistical approach: clinical results. Gencel L, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1729–33

Automatic sensor adjustment in a rate modulated pacemaker. North American Trilogy DR+ Phase I Clinical Investigators. Gentzler RD, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1809–12

U.S. experience with the AddVent VDD(R) pacing system. AddVent Phase I Investigators. Gessman L, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1764–7

Unipolar recording and pacing using a conductive introducer sheath as the indifferent electrode. Goldman DS, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):2014–7

Optimized standby rate reduces the ventricular rate variability in pacemaker patients with atrial fibrillation. Greenhut SE, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1780–5

A comparative analysis of signal processing methods for motion-based rate responsive pacing. Greenhut SE, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1230–47

Adequacy of pacing rate during exercise in rate responsive ventricular pacing. Hasegawa A, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):307–12

Chronic steroid-eluting lead performance: a comparison of atrial and ventricular pacing. Hua W, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):17–24

Long-term survival of chosen atrial-based pacing modalities. Irwin M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1796–8

Exercise induced sympathetic influences do not change interatrial conduction times in VDD and DDD pacing. Ismer B, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1786–90

Evaluation of a new pacing algorithm to prevent rapid tracking of atrial tachyarrhythmias. Kamalvand K, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1714–8

Comparison of continuously recorded sensor and sinus rates during daily life activities and standardized exercise testing: efficacy of automatically optimized rate adaptive dual sensor pacing to simulate sinus rhythm. Lau CP, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1672–7

Delayed exercise rate response kinetics due to sensor cross-checking in a dual sensor rate adaptive pacing system: the importance of individual sensor programming. Lau CP, et al. **Pacing Clin Electrophysiol** 1996 Jul; 19(7):1021–5

New integrated sensor pacemaker: comparison of rate responses between an integrated minute ventilation and activity sensor and single sensor modes during exercise and daily activities and nonphysiological interference. Leung SK, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1664–71

A gastroesophageal electrode for atrial and ventricular pacing. McEneaney DJ, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1815–25

Congestive heart failure and VVI pacing mode: dynamic behavior of the dispersion of ventricular repolarization. Manolis AG, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1890–3

Combined transesophageal left atrial pacing and antiarrhythmic therapy in the treatment of atrial flutter. Matiouchine GV, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1947–50

Activity controlled cardiac pacemakers during stairwalking: a comparison of accelerometer with vibration guided devices and with sinus rate. Matula M, et al. **Pacing Clin Electrophysiol** 1996 Jul;19(7):1036–41

Use of automatic mode change between DDD and AAI to facilitate native atrioventricular conduction in patients with sick sinus syndrome or transient atrioventricular block. Mayumi H, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1740–7

The importance of different atrioventricular delay for left ventricular filling in sequential pacing: clinical implications. Modena MG, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 1):1595–604

Intrapatient comparison of atrial and ventricular sensing, pacing threshold, and impedance: benefits with steroid-eluting leads. Moracchini PV, et al. **Pacing Clin Electrophysiol** 1996 Oct;19(10):1482–7

Holter recordings with continuous marker annotations: a new tool in pacemaker diagnostics. Nowak B, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1791–5

Benefits and limitations of rate adaptive pacing under laboratory and daily life conditions in patients with minute ventilation single chamber pacemakers [see comments] Osswald S, et al. **Pacing Clin Electrophysiol** 1996 Jun; 19(6):890–8. Comment in: Pacing Clin Electrophysiol 1996 Nov;19(11 Pt 1):1659–60.

Single lead VDD pacing: multicenter study. Ovsyscher IE, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1768–71

Toward physiological pacing: optimization of cardiac hemodynamics by AV delay adjustment [editorial] Ovsyshcher IE. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):861–5

Effect of varying atrial sensitivity, AV interval, and detection algorithm on automatic mode switching. Palma EC, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1735–9

Straightforward method of achieving dual chamber pacing [editorial; comment] Palmer AS. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):374–5. Comment on: Pacing Clin Electrophysiol 1996 Jul;19(7):1134–5.

Evolution of atrial signals from a single lead VDD pacemaker. AddVent European Multicentre Study Group. Papouchado M, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1772–6

The optimal pacing rate: an unpredictable parameter. Payne G, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt

1):866–73
Dual chamber pacing with a single lead system: initial clinical results. Rey JL, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1777–9
Reliability of a new algorithm for automatic mode switching from DDDR to DDIR pacing mode in sinus node disease patients with chronotropic incompetence and recurrent paroxysmal atrial fibrillation. Ricci R, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1719–23
The effect of ventricular activation sequence on cardiac performance during pacing. Rosenqvist M, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1279–86
Improving accelerometer-based rate adaptive pacing by means of second-generation signal processing. Schmidt M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1698–703
Italian experience with AutoCapture in conjunction with a membrane lead. Pacesetter Automatic Control of Energy and Membrane Automatic Threshold Evaluation (Pacemate) Study Group. Sermasi S, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1799–804
The retropectoral transaxillary permanent pacemaker: description of a technique for percutaneous implantation of an "invisible" device. Shefer A, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1646–51
Influence of duration of rapid ventricular pacing on ventricular refractoriness in the presence of propafenone and lidocaine. Stark U, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):43–50
Evaluation of asynchronous left ventricular relaxation by Doppler echocardiography during ventricular pacing with AV synchrony (VDD): comparison with atrial pacing (AAI). Stojnić BB, et al. **Pacing Clin Electrophysiol** 1996 Jun;19(6):940–4
Dual sensor VVIR mode pacing: is it worth it? Sulke N, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1560–7
The "smart" escape interval: an innovative approach to cardiac pacing. Tellini L. **Pacing Clin Electrophysiol** 1996 Oct;19(10):1474–81
Single lead DDD system: a comparative evaluation of unipolar, bipolar, and overlapping biphasic stimulation and the effects of right atrial floating electrode location on atrial pacing and sensing thresholds. Tse HF, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1758–63
AAIR versus DDDR pacing in patients with impaired sinus node chronotropy: an echocardiographic and cardiopulmonary study. Vardas PE, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1762–8
Electrophysiological characteristics of bipolar membrane carbon leads with and without steroid elution compared with a conventional carbon and a steroid-eluting platinum lead. Wiegand UK, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1155–61
Simplified physiological pacing after cardiac surgery. Machii M, et al. **Surg Today** 1996;26(8):649–51
[Esophageal approach in rythmology. Diagnostic and therapeutic applications] Moustaghfir A, et al. **Ann Cardiol Angeiol (Paris)** 1996 Nov;45(9):539–44 (21 ref.) (Eng. Abstr.) **(Fre)**
[Should protocol of programmed ventricular stimulation be adapted to each patient?] Brembilla-Perrot B, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1413–6 (Eng. Abstr.) **(Fre)**
[Use of esophageal investigation in the mid-term outcome after radiofrequency ablation of intranodal reentrant tachycardia] Deharo JC, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1375–9 (Eng. Abstr.) **(Fre)**
[Incidence of atrial arrhythmia in patients with long term dual-chamber pacemakers. Contribution of the Holter function of pacemakers] Garrigue S, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):873–81 (Eng. Abstr.) **(Fre)**
[Effects of temporary dual-chamber cardiac pacing in refractory cardiac failure] Scanu P, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1643–9 (Eng. Abstr.) **(Fre)**
[Value of the study of latent atrial vulnerability in unexplained ischemic cerebrovascular accident of young subjects] Somody E, et al. **Arch Mal Coeur Vaiss** 1996 Nov; 89(11):1365–73 (Eng. Abstr.) **(Fre)**
[Pacemaker cardiac stimulation (editorial)] Evéquoz D. **Schweiz Rundsch Med Prax** 1996 Oct 29;85(44):1392–3 **(Fre)**
[An intrapatient comparison of adaptation to aerobic and anaerobic exertion during 3 types of physiological cardiac stimulation in chronotropic failure of the sinus node: DDD, VVIR and DDDR] Occhetta E, et al. **Cardiologia** 1997 Jan;42(1):51–7 (Eng. Abstr.) **(Ita)**
[Transesophageal pacing and recording] Takenaka S, et al. **Nippon Rinsho** 1996 Aug;54(8):2074–9 (19 ref.) (Eng. Abstr.) **(Jpn)**
[Noninvasive transcutaneous cardiac pacing] Zapolski T, et al. **Wiad Lek** 1996;49(1–6):43–50 (17 ref.) (Eng. Abstr.) **(Pol)**
[Guided anti-arrhythmia therapy by programmed ventricular stimulation. A case of arrhythmogenic dysplasia of the right ventricle] Oliveira M, et al. **Rev Port Cardiol** 1997 Jan; 16(1):33–8, 8 (27 ref.) (Eng. Abstr.) **(Por)**
[A comparison of unipolar versus bipolar mapping in the ablation of left-sided accessory atrioventricular conduction pathways] Sousa J, et al. **Rev Port Cardiol** 1997 May; 16(5):449–55, 439 (Eng. Abstr.) **(Por)**
[The importance of transesophageal cardiac pacing in general hospital] Rychkov AI. **Klin Med (Mosk)** 1997;75(2):36–7 (Eng. Abstr.) **(Rus)**
[The use of accelerating electric stimulation of the left atrium in patients with a suspected small-focus myocardial infarct] Odud AM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):71–3 (Eng. Abstr.) **(Rus)**
[Programmed ventricular stimulation in patients with acute forms of ischemic heart disease] Parkhomenko AN, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):55–7 (Eng. Abstr.) **(Rus)**
[The possibilities of using ambulatory stress echocardiography with transesophageal atrial stimulation] Ziablov IuI, et al. **Ter Arkh** 1997;69(4):21–2 (Eng. Abstr.) **(Rus)**
[Transesophageal electrostimulation of the heart in the diagnosis of sinus node dysfunction] Prikhod'ko NA, et al. **Voen Med Zh** 1996 Jun;317(6):72–3 **(Rus)**
[Esophageal stimulation in the diagnosis of supraventricular tachycardia in children] Kozárová E. **Bratisl Lek Listy** 1997 May;98(5):294–9 **(Slo)**
[A simple and safe method with few complications. Transesophageal stimulation interrupted atrial flutter] Fredriksson B, et al. **Lakartidningen** 1996 Oct 23; 93(43):3800, 3803–4 **(Swe)**

MORTALITY

[Permanent pacemaker implantation in patients aged 80 years or older] Aida H, et al. **Kyobu Geka** 1997 May;50(5):381–3 (Eng. Abstr.) **(Jpn)**

NURSING

Care and safety of pacemaker electrodes in intensive care and telemetry nursing units. Baas LS, et al. **Am J Crit Care** 1997 Jul;6(4):302–11

PSYCHOLOGY

Pacemaker therapy: how do patients cope with the icon of modern antibradycard treatment? [editorial] Schüppel R, et al. **Int J Artif Organs** 1997 Jan;20(1):7–11 (46 ref.)
Objective benefit of restoring normal chronotropy [letter; comment] Gammage M. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1659–60. Comment on: Pacing Clin Electrophysiol 1996 Jun;19(6):890–8.
[Permanent pacemaker implantation in patients aged 80 years or older] Aida H, et al. **Kyobu Geka** 1997 May;50(5):381–3 (Eng. Abstr.) **(Jpn)**

STANDARDS

Transcutaneous pacing in a hypothermic-dog model. Dixon RG, et al. **Ann Emerg Med** 1997 May;29(5):602–6
Rate adaptive pacemakers [letter] Neelakandan B, et al. **Artif Organs** 1996 Apr;20(4):360
Experience and training in temporary transvenous pacing [see comments] Davis GK, et al. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):432–4. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):111.

STATISTICS & NUMERICAL DATA

Cardiac pacing following surgery for acquired heart disease. Del Rizzo DF, et al. **J Card Surg** 1996 Sep–Oct; 11(5):332–40

TRENDS

A managed care update: implications for cardiac pacing and electrophysiology. Michnich ME, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1640–2

CARDIAC RUPTURE see **HEART RUPTURE**

CARDIAC RUPTURE, TRAUMATIC see **HEART INJURIES**

CARDIAC STIMULANTS see **CARDIOTONIC AGENTS**

CARDIAC SUDDEN DEATH see **DEATH, SUDDEN, CARDIAC**

CARDIAC TAMPONADE

[Cardiac tamponade] Shimizu H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):542–5 (17 ref.) **(Jpn)**

CHEMICALLY INDUCED

Cardiac tamponade in a 21-year-old body builder with anabolica abuse [letter] Roeggia M, et al. **Br J Clin Pract** 1996 Oct–Nov;50(7):411–2
More on pericardial tamponade during methotrexate therapy [letter; comment] Marchesoni A, et al. **J Rheumatol** 1996 Dec;23(12):2182–4. Comment on: J Rheumatol 1994 May;21(5):934–7. Comment on: J Rheumatol 1995 Jul;22(7):1439.
[Sudden cardiac tamponade due to hemorrhagic myocarditis after preconditioning marrow transplantation with cyclophosphamide in a patient with aplastic anemia] Miura Y, et al. **Rinsho Ketsueki** 1997 Jun;38(6):526–31 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Acute cardiac tamponade associated with pericardial extramedullary hematopoiesis in agnogenic myeloid metaplasia. Imam TH, et al. **Acta Haematol** 1997;98(1):42–3
Bacterial pericarditis and cardiac tamponade in patients infected with human immunodeficiency virus type 1: case report and review. Scerpella EG, et al. **Clin Infect Dis** 1995 Dec;21(6):1518–9 (4 ref.)
Refractory postoperative hypoxemia associated with regional cardiac tamponade and patent foramen ovale. Sandifer DP, et al. **Crit Care Med** 1997 Sep;25(9):1608–11
Spontaneous coronary artery rupture and cardiac tamponade in Ehlers-Danlos syndrome type IV. Evans RH, et al. **Int J Cardiol** 1996 Jun;54(3):283–6
Cardiac tamponade in association with an atrial septal defect: echocardiographic Doppler and hemodynamic observations. Joffe II, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):909–14
Subtle electrical alternans in a large pericardial effusion with tamponade. Slattery DE, et al. **J Emerg Med** 1997 May–Jun;15(3):371–2
[Cardiogenic shock due to cardiac tamponade] Kinoshita M, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10;85(1):73–7 (5 ref.) **(Jpn)**
[Arterial hypertension in a patient with cardiac tamponade] Pereira S, et al. **Rev Port Cardiol** 1996 Oct;15(10):739–43, 696 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Unwillingness to lie supine? a sign of pericardial tamponade. Porter JM, et al. **Am Surg** 1997 Apr;63(4):365–6
Pseudomonas pericarditis and tamponade in an infant with human immunodeficency virus infection. Tumaliuan JA, et al. **Arch Pediatr Adolesc Med** 1997 Feb;151(2):207–8 (9 ref.)
Images in cardiovascular medicine. Pericardial tamponade. Joffe II, et al. **Circulation** 1996 Nov 15;94(10):2667
Pneumococcal pericarditis—out of sight, out of mind? McMechan SR, et al. **Clin Cardiol** 1996 Oct;19(10):829–30 (5 ref.)
Cardiac tamponade as the first manifestation of AIDS [letter] Bennis A, et al. **Eur Heart J** 1996 Nov;17(11):1771–2
Sudden hemorrhagic tamponade simulating subacute ventricular rupture after acute myocardial infarction [letter] Fuchs S, et al. **Int J Cardiol** 1997 Jul 25;60(2):219–20
Traumatic pericardial tamponade: relearning old lessons. Crawford R, et al. **J Accid Emerg Med** 1997 Jul;14(4):252–4
Iatrogenic pneumohemomediastinum mimicking cardiac tamponade: a complication of catheter ablation procedure. Voci P, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):138–9
Intrapericardial lymphangioma presenting as neonatal cardiac tamponade. Daubeney PE, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):129–31 (12 ref.)
Delayed posttraumatic tamponade [see comments] Bellanger D, et al. **South Med J** 1996 Dec;89(12):1197–9. Comment in: South Med J 1997 May;90(5):568.
Bedside diagnosis of cardiac tamponade. Spodick DH. **Tex Heart Inst J** 1996;23(3):239
[A 42-year-old woman with cardiac tumor and tamponade] Nakayama M, et al. **J Cardiol** 1996 Dec;28(6):355–6 **(Jpn)**

DRUG THERAPY

Prospective comparison of the sclerosing agents doxycycline and bleomycin for the primary management of malignant pericardial effusion and cardiac tamponade. Liu G, et al. **J Clin Oncol** 1996 Dec;14(12):3141–7
[Evaluation of intrapericardial cisplatin administration in cases of recurrent malignant pericardial effusion and cardiac tamponade] Tomkowski W, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 2:180–6 (Eng. Abstr.) **(Pol)**

EPIDEMIOLOGY

Effect of anticoagulants on the incidence of late pericardial tamponade following open heart surgery. The Hawaii experience. Premaratne S, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):107–11

ETIOLOGY

Pericardial tamponade as the first manifestation of adenocarcinoma. de la Gándara I, et al. **Acta Oncol** 1997; 36(4):429–31
Pericardial tamponade from Kaposi's sarcoma: role of early pericardial window. Vijay V, et al. **Am Heart J** 1996 Oct; 132(4):897–9 (6 ref.)
Unusual presentation of late regional cardiac tamponade after aortic surgery. Jadhav P, et al. **Am J Card Imaging** 1996 Jul;10(3):204–6
Left ventricular free wall rupture as the presenting manifestation of acute myocardial infarction in diabetic patients. Zahger D, et al. **Am J Cardiol** 1996 Sep 15; 78(6):681–2
Pericardial tamponade and death from Hickman catheter perforation. Murray BH, et al. **Am Surg** 1996 Dec; 62(12):994–7
Mechanical hyperinflation PEA [letter] Pohl MN. **Ann Emerg Med** 1997 Mar;29(3):427
Delayed tamponade after MIDCABG [letter] Baribeau YR,

et al. **Ann Thorac Surg** 1997 Jun;63(6):1834

Congenital coronary arteriovenous fistula: spontaneous rupture and cardiac tamponade. Bauer HH, et al. **Ann Thorac Surg** 1996 Nov;62(5):1521–3

Acute right-sided heart failure due to hemorrhage into a pericardial cyst. Borges AC, et al. **Ann Thorac Surg** 1997 Mar;63(3):845–7

Cardiac tamponade after a systemic–pulmonary shunt complicated by serous leakage. García–Guereta L, et al. **Ann Thorac Surg** 1997 Jan;63(1):248–9; discussion 250

Iatrogenic cardiac tamponade during pregnancy. Yim SF, et al. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):205–6

Acute cardiac tamponade secondary to congenital factor V deficiency. Schultz SC, et al. **Cardiology** 1997 Jan–Feb; 88(1):48–9

Cardiac tamponade following stent implantation with adjuvant platelet IIb/IIIa receptor inhibitor administration. Bottner RK, et al. **Cathet Cardiovasc Diagn** 1997 Apr; 40(4):380–2 (4 ref.)

A case of spontaneous innominate artery perforation with pericardial tamponade. Gutierrez HG, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):277–80

Rupture of coronary artery and cardiac tamponade complicating Wallstent implantation. Mendzelevski B, et al. **Cathet Cardiovasc Diagn** 1997 Apr;40(4):368–71

Metastatic colonic carcinoma with intracavitary right ventricular outflow tract obstruction and cardiac tamponade: a case report. Chu PH, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):264–7

Pericardial tamponade and systemic sclerosis [letter] Keskin G, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):701–2

Chylous cardiac tamponade in acute pancreatitis. Arendt T, et al. **Dig Dis Sci** 1996 Oct;41(10):1972–4

Cardiac tamponade during esophagoscopy. Bachmann P, et al. **Endoscopy** 1996 Aug;28(6):523

Primary synovial cardiac sarcoma: a rare cause of tamponade [letter] Constantinou LL, et al. **Eur Heart J** 1996 Nov; 17(11):1766–8

Cardiac tamponade and cardiogenic shock as a manifestation of all-trans retinoic acid syndrome: an association not previously reported. Larrea L, et al. **Haematologica** 1997 Jul–Aug;82(4):463–4

Acute tamponade in a newborn infant caused by a massive cystic teratoma. Uzun O, et al. **Heart** 1996 Aug;76(2):188

Exercise intolerance and ankle edema in a young woman. Koch CA, et al. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):190, 196

Localized right atrial tamponade after cardiac surgery [letter] Garcia–Rubira JC, et al. **Int J Cardiol** 1997 Jan 3;58(1):87–8

Thrombolytic therapy complicated hyperacute cardiac tamponade in a patient with purulent pericarditis [letter] Huang CH, et al. **Int J Cardiol** 1996 Jul 26;55(2):209–10

An unusual case of cardiac tamponade following electrical cardioversion. Jessurun GA, et al. **Int J Cardiol** 1996 Mar; 53(3):317–20

Traumatic pericardial tamponade: relearning old lessons. Crawford R, et al. **J Accid Emerg Med** 1997 Jul;14(4):252–4

A case of acute idiopathic pericarditis with rapid relapse and cardiac tamponade in an older woman [letter] Kodama K, et al. **J Am Geriatr Soc** 1997 May;45(5):659–60

Left ventricular pseudoaneurysm with left atrium tamponade: a rare postinfarction complication. Delgado C, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):582–7

Delayed cardiac tamponade following a stab wound: a case report. Raney JL, et al. **J Ark Med Soc** 1997 May; 93(12):589–91

Cardiac tamponade resulting from attempted internal jugular vein catheterization. Castelli P. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):195–6

Late posterior cardiac tamponade after open heart surgery. Yilmaz AT, et al. **J Cardiovasc Surg (Torino)** 1996 Dec; 37(6):615–20

Stab wound to the chest with acute pericardial tamponade. Barton ED, et al. **J Emerg Med** 1996 Nov–Dec;14(6):743–5

Delayed cardiac tamponade in a patient with penetrating chest trauma. Mechem CC, et al. **J Emerg Med** 1997 Jan–Feb;15(1):31–3

Coronary artery perforation and delayed cardiac tamponade following balloon coronary angioplasty. Tseng CD, et al. **J Formos Med Assoc** 1996 Oct;95(10):789–92

Cardiac tamponade as an initial manifestation of systemic lupus erythematosus--single case report. Lee IH, et al. **J Korean Med Sci** 1997 Feb;12(1):75–7

Cardiac herniation producing tamponade: the critical role of early diagnosis. Carrillo EH, et al. **J Trauma** 1997 Jul; 43(1):19–23

Pericardial tamponade from iatrogenic coronary artery perforation treated with transcatheter embolization [letter] Finch IJ, et al. **J Vasc Interv Radiol** 1996 Jan–Feb; 7(1):147–8

Multiple myeloma with pericardial involvement and cardiac tamponade: a report of three patients. Rosenbaum H, et al. **Leuk Lymphoma** 1996 Dec;24(1–2):183–6

Acinetobacter pericarditis with tamponade in a patient with systemic lupus erythematosus. Lam SM, et al. **Lupus** 1997; 6(5):480–3 (13 ref.)

CREST presenting with cardiac tamponade. Wehbe TW, et al. **Med Health R I** 1996 Feb;79(2):58–9

Mycoplasma pneumoniae pericarditis and cardiac tamponade in a ten-year-old girl. Meseguer MA, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):829–31

Cardiac tamponade--an unlikely cause of unexplained hypotension in an isolated "minor" blunt chest injury. Sia AT. **Singapore Med J** 1997 Jan;38(1):35–6

Delayed posttraumatic tamponade [see comments] Bellanger D, et al. **South Med J** 1996 Dec;89(12):1197–9. Comment in: South Med J 1997 May;90(5):568.

Delayed posttraumatic tamponade [letter; comment] Spodick DH. **South Med J** 1997 May;90(5):568. Comment on: South Med J 1996 Dec; 89(12):1197–9.

Ventricular laceration and cardiac tamponade during laparoscopic Nissen fundoplication. Firoozmand E, et al. **Surg Laparosc Endosc** 1996 Oct;6(5):394–7 (10 ref.)

Leaking giant aneurysm of the aortic root due to cystic medial necrosis with pericardial tamponade mimicking type-A aortic dissection. Attenhofer CH, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):103–4

Cardiac tamponade--a rare complication in acute pancreatitis. Bastian A, et al. **Z Gastroenterol** 1997 Jun; 35(6):477–80

[Acute uremic pericarditis presented as cardiac tamponade with acute ischemic hepatitis: a case report] Chen MW, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):392–6 (Eng. Abstr.) **(Chi)**

[Pleuropericarditis complicated of tamponade disclosing mixed connective tissue disease. Remission with non-steroidal anti-inflammatory agents. Apropos of a case] Richard P, et al. **Ann Cardiol Angeiol (Paris)** 1996 Nov; 45(9):513–5 (Eng. Abstr.) **(Fre)**

[Cardiac metastasis of melanoma disclosed by tamponade] Legoux B, et al. **Ann Dermatol Venereol** 1996; 123(6–7):393–4 (Eng. Abstr.) **(Fre)**

[Cardiac tamponade revealing hypothyroidism] Bennis A, et al. **Ann Endocrinol (Paris)** 1996;57(5):445–7 **(Fre)**

[Primary right atrial hemangiosarcoma manifesting as cardiac tamponade: a case report with transesophageal echocardiography] Kihara H, et al. **J Cardiol** 1996 Jun; 27(6):329–33 (Eng. Abstr.) **(Jpn)**

[A case report of closing aortic dissection with cardiac tamponade] Yoshimura N, et al. **Kyobu Geka** 1996 Oct; 49(11):943–6 (Eng. Abstr.) **(Jpn)**

[A case report of Stanford type A acute thrombosed aortic dissection complicating cardiac tamponade] Morimoto K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep; 44(9):1805–8 (Eng. Abstr.) **(Jpn)**

[A case of ruptured aortic arch aneurysm with hemorrhagic cardiac tamponade] Ohtani N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):865–8 (Eng. Abstr.) **(Jpn)**

[Coronary artery perforation with rotational coronary atherectomy] Moreira AE, et al. **Arq Bras Cardiol** 1996 Jun;66(6):357–60 (Eng. Abstr.) **(Por)**

[Metastatic cardiac tamponade in a patient with papillary carcinoma of the thyroid (letter)] Puigfel M, et al. **Med Clin (Barc)** 1996 Jun 29;107(5):197–8 **(Spa)**

[Cardiac tamponade caused by a rhabdomyosarcoma in the right atrium (letter)] Valdovinos Mahave MC, et al. **Med Clin (Barc)** 1997 Jun 7;109(2):79 **(Spa)**

[Pericardial hematoma 2 years after coronary surgery] García Fuster R, et al. **Rev Esp Cardiol** 1997 Jan;50(1):58–61 (Eng. Abstr.) **(Spa)**

[Cardiac tamponade as a clinical symptom of systemic lupus erythematosus] Manresa JM, et al. **Rev Esp Cardiol** 1997 Aug;50(8):600–2 (Eng. Abstr.) **(Spa)**

METABOLISM

Latent development of cardiac tamponade heralded by a progressive fall in hepatic venous hemoglobin oxygen saturation [letter] Kainuma M, et al. **Intensive Care Med** 1996 Nov;22(11):1277

PATHOLOGY

Experimental animal model of hematogenous cardiac metastasis and neoplastic cardiac tamponade. Shioda T, et al. **J Surg Oncol** 1997 Feb;64(2):122–6

[Hypertension, kidney failure and angina in renovascular and coronary disease (CLINICAL CONFERENCE)] **Medicina (B Aires)** 1996;56(2):173–82 **(Spa)**

PHYSIOPATHOLOGY

Respiratory variation of carotid artery flow in cardiac tamponade. Bhagwat AR, et al. **Am Heart J** 1996 Nov; 132(5):1068–70

Exercise intolerance and ankle edema in a young woman. Koch CA, et al. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):190, 196

RADIONUCLIDE IMAGING

Severe right ventricular contraction asynchronism revealing a large pericardial effusion. Roy S, et al. **J Nucl Med** 1997 May;38(5):777–9

SURGERY

Pericardial tamponade from Kaposi's sarcoma: role of early pericardial window. Vijay V, et al. **Am Heart J** 1996 Oct; 132(4):897–9 (6 ref.)

Experience with cardiac tamponade following open heart surgery. Ball JB, et al. **Heart Vessels** 1996;11(1):39–43 (41 ref.)

Cardiac tamponade due to a rupture of the coronary arteriovenous aneurysm--a case report. Ryu JC, et al. **J Korean Med Sci** 1997 Apr;12(2):143–5

Cardiac tamponade in Taiwan. Wang ML, et al. **Jpn Circ J** 1997 Sep;61(9):767–71

Laparoscopic pericardial window. Picardi EJ, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):320–3

[The incompetence of heart wound sutures] Leshchenko AP, et al. **Klin Khir** 1994;(12):60 **(Rus)**

THERAPY

Balloon pericardiostomy: a new therapeutic option for malignant pericardial effusion. Devlin GP, et al. **Aust N Z J Med** 1996 Aug;26(4):556–8

Percutaneous balloon pericardiotomy: a case report and analysis of mechanism of action [see comments] Bertrand O, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):180–2. Comment in: Cathet Cardiovasc Diagn 1996 Jun;38(2):183.

Whither pericardial fluid? [editorial; comment] Block PC. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):183. Comment on: Cathet Cardiovasc Diagn 1996 Jun;38(2):180–2.

Successful treatment of coronary artery perforation during angioplasty using autologous vein graft-coated stent. Chae JK, et al. **Eur Heart J** 1997 Jun;18(6):1030–2

Severe right ventricular dysfunction following pericardiocentesis for cardiac tamponade [letter] Anguera I, et al. **Int J Cardiol** 1997 Apr 18;59(2):212–4

Pericardial tamponade from iatrogenic coronary artery perforation treated with transcatheter embolization [letter] Finch IJ, et al. **J Vasc Interv Radiol** 1996 Jan–Feb; 7(1):147–8

Cardiac tamponade. Ball JB, et al. **Postgrad Med J** 1997 Mar; 73(857):141–5 (30 ref.)

[Ultrasound-guided pericardiocentesis] Pepi M. **Cardiologia** 1995 Oct;40(10):783–5 **(Ita)**

[The efficacy of transesophageal echocardiography during the pericardial drainage of the cardiac tamponade after cardiac surgery] Kikumoto K, et al. **Masui** 1996 Aug; 45(8):998–1001 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Respiratory variation of carotid artery flow in cardiac tamponade. Bhagwat AR, et al. **Am Heart J** 1996 Nov; 132(5):1068–70

Left ventricular diastolic compression in acquired immunodeficiency syndrome with large, nonloculated pericardial effusion. D'Cruz IA, et al. **Am Heart J** 1997 Mar;133(3):383–4

Unusual presentation of late regional cardiac tamponade after aortic surgery. Jadhav P, et al. **Am J Card Imaging** 1996 Jul;10(3):204–6

Images in cardiovascular medicine. Pericardial tamponade. Joffe II, et al. **Circulation** 1996 Nov 15;94(10):2667

Pericardial abscess due to transdiaphragmatic perforation of the pyogenic liver abscess [letter] Cho MC, et al. **Eur Heart J** 1996 Oct;17(10):1602–3

Diagnostic accuracy of transesophageal echocardiography during cardiopulmonary resuscitation. van der Wouw PA, et al. **J Am Coll Cardiol** 1997 Sep;30(3):780–3

Cardiac tamponade in association with an atrial septal defect: echocardiographic Doppler and hemodynamic observations. Joffe II, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):909–14

Cardiac tamponade during transesophageal echocardiography in the patient of circumferential aortic dissection. Kim CM, et al. **J Korean Med Sci** 1997 Jun; 12(3):266–8

Pericardial tamponade. Perlroth MG, et al. **Tex Heart Inst J** 1996;23(3):240–1

[The efficacy of transesophageal echocardiography during the pericardial drainage of the cardiac tamponade after cardiac surgery] Kikumoto K, et al. **Masui** 1996 Aug; 45(8):998–1001 (Eng. Abstr.) **(Jpn)**

[Cardiac tamponade with the absence of a paradoxical pulse. The practical utility of echocardiography] Zamorano J, et al. **Rev Esp Cardiol** 1995 Jun;48(6):443–5 (6 ref.) (Eng. Abstr.) **(Spa)**

VETERINARY

[Idiopathic pericardial effusion with tamponade in a Friesian gelding] Wijnberg ID, et al. **Tijdschr Diergeneeskd** 1997 Apr 15;122(8):216–9 (Eng. Abstr.) **(Dut)**

CARDIAC TRANSPLANTATION see **HEART TRANSPLANTATION**

CARDIAC VOLUME

Cardiac morphology and left ventricular function in normotensive morbidly obese patients with and without congestive heart failure, and effect of weight loss. Alpert MA, et al. **Am J Cardiol** 1997 Sep 15;80(6):736–40

Comparison of continuous left ventricular volumes by transthoracic two-dimensional digital echo quantification with simultaneous conductance catheter measurements in patients with cardiac diseases. Chen CH, et al. **Am J Cardiol** 1997 Sep 15;80(6):756–61

Preliminary report: evaluation of three-dimensional echocardiographic volumetry by simultaneous thermal dilution in coronary heart disease. Müller S, et al. **Cardiology** 1996 Nov–Dec;87(6):552–9

Pressure and volume loading of the right ventricle have opposite effects on left ventricle? [letter; comment] Tei C, et al. **Circulation** 1996 Nov 1;94(9):2307–8. Comment on:

CARDIAC VOLUME

Circulation 1995 Aug 15;92(4):819–24.
Accuracy of the conductance catheter for measurement of ventricular volumes seen clinically: effects of electric field homogeneity and parallel conductance. Wu CC, et al. **IEEE Trans Biomed Eng** 1997 Apr;44(4):266–77
Role of infarction artery status in left ventricular remodeling after acute myocardial infarction. Sanchis J, et al. **Int J Cardiol** 1997 Apr 18;59(2):189–95
The echocardiographic determination of volume and muscle mass of the heart. Dickhuth HH, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S132–9 (61 ref.)
Right ventricular volume estimation using an ellipsoidal shell model and single–plane magnetic resonance imaging. Denslow S, et al. **Invest Radiol** 1996 Jan;31(1):17–25
Feasibility of a two–dimensional echocardiographic method for the clinical assessment of right ventricular volume and function in children. Apfel HD, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):637–45
Comparison between manual and semiautomated analysis of left ventricular volume parameters from short–axis MR images. van der Geest RJ, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):756–65
Adaptive blood pool segmentation in three–dimensions: application to MR cardiac evaluation. Kaushikkar SV, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):690–7
Effect of right ventricular volume overload on left ventricular diastolic function in patients with atrial septal defect. Satoh A, et al. **Jpn Circ J** 1996 Oct;60(10):758–66
Concealed left ventricular hypertrophy and diastolic dysfunction in hypertrophic cardiomyopathy in the presence of acute left ventricular volume overload. A case report. Oki T, et al. **Jpn Heart J** 1997 Jan;38(1):139–44
Left ventricular function in response to the transition from aerobic to anaerobic metabolism. Pokan R, et al. **Med Sci Sports Exerc** 1997 Aug;29(8):1040–7
Fetal heart volume assessment by three–dimensional ultrasound. Chang FM, et al. **Ultrasound Obstet Gynecol** 1997 Jan;9(1):42–8
[Automatic assessment of left ventricular cavity area by the automated contour tracking method] Yagi T, et al. **J Cardiol** 1996 Dec;28(6):345–8 (Eng. Abstr.) **(Jpn)**
[Comparison of left ventricular pressure–volume loops measured by two–dimensional echocardiography and a conductance catheter] Nomura K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):37–41 (Eng. Abstr.) **(Jpn)**
[Assessment of ventricular wall motion and volume by fast cine MRI using Fastcard sequence] Nakanishi T, et al. **Nippon Rinsho** 1997 Jul;55(7):1800–4 (13 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Atrial receptors and heart volumes. Linden RJ. **Adv Exp Med Biol** 1995;381:125–34 (52 ref.)
Gestational age– and growth–related alterations in fetal right and left ventricular diastolic filling patterns. Harada K, et al. **Am J Cardiol** 1997 Jan 15;79(2):173–7
A finite volume model of cardiac propagation. Harrild DM, et al. **Ann Biomed Eng** 1997 Mar–Apr;25(2):315–34
An assessment of dobutamine echocardiography and end–diastolic wall thickness for predicting post–revascularization functional recovery in patients with chronic coronary artery disease. Furukawa T, et al. **Eur Heart J** 1997 May;18(5):798–806
Preoptic recess lesions reduce right atrial pressure responses to volume expansion. Bealer SL. **J Auton Nerv Syst** 1996 Sep 12;60(3):175–81
Acute changes in left atrial and left ventricular diameters after physiological pacing. Ishikawa T, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):143–9
[Embolism in left–atrial thrombi (ELAT Study): are spontaneous echo contrast, thrombi in the left atrium/appendage and size of the left atrial appendage predictors of possible embolisms?] Stöllberger C, et al. **Wien Med Wochenschr** 1997;147(2):46–51 (Eng. Abstr.) **(Ger)**

CARDIOGRAPHY, IMPEDANCE

Impedance cardiography in cardiac surgery patients: abnormal body weight gives unreliable cardiac output measurements. van der Meer BJ, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):708–12
Comparison of impedance cardiography to invasive techniques for measurement of cardiac output [letter; comment] Bloch KE, et al. **Am J Cardiol** 1997 Mar 15; 79(6):846. Comment on: Am J Cardiol 1996 Jun 15;77(15):1293–301.
Validation of thoracic electrical bioimpedance as a porcine research tool. Broomhead CJ, et al. **Br J Anaesth** 1997 Mar;78(3):323–5
Thoracic impedance used for measuring chest wall movement in postoperative patients. Drummond GB, et al. **Br J Anaesth** 1996 Sep;77(3):327–32
Impedance cardiography accurately measures cardiac output during exercise in children with cystic fibrosis [see comments] Pianosi PT. **Chest** 1997 Feb;111(2):333–7. Comment in: Chest 1997 Jun;111(6):1786.
MSE behavior of biomedical event–related filters. Barros AK, et al. **IEEE Trans Biomed Eng** 1997 Sep;44(9):848–55
The influence of weight on stroke volume determination by means of impedance cardiography in cardiac surgery patients. Woltjer HH, et al. **Intensive Care Med** 1996 Aug; 22(8):766–71
Does impedance cardiography reliably estimate left ventricular ejection fraction? van der Meer NJ, et al. **J Clin Monit** 1996 Jan;12(1):5–9
Optimalisation of the spot electrode array in impedance cardiography. Woltjer HH, et al. **Med Biol Eng Comput** 1996 Jan;34(1):84–7
The intra– and interobserver variability of impedance cardiography in patients at rest and during exercise. Woltjer HH, et al. **Physiol Meas** 1996 Aug;17(3):171–8

INSTRUMENTATION

Wet lungs and impedance cardiography [letter] Critchley LA, et al. **Anaesth Intensive Care** 1997 Jun;25(3):314–5
Impedance cardiography. Importance of the equation and the electrode configuration. van der Meer BJ, et al. **Intensive Care Med** 1996 Oct;22(10):1120–4
Electric field plethysmography signals of the human thorax as determined by a 2–D FE–model. Nopp P, et al. **Med Prog Technol** 1995–96;21(3):135–45
Improvement of cardiac imaging in electrical impedance tomography by means of a new electrode configuration. Vonk Noordegraaf A, et al. **Physiol Meas** 1996 Aug; 17(3):179–88

METHODS

Whole–body impedance cardiography in the measurement of cardiac output. Kööbi T, et al. **Crit Care Med** 1997 May; 25(5):779–85
Comparison of impedance and inductance ventilation sensors on adults during breathing, motion, and simulated airway obstruction. Cohen KP, et al. **IEEE Trans Biomed Eng** 1997 Jul;44(7):555–66
Impedance cardiography. Importance of the equation and the electrode configuration. van der Meer BJ, et al. **Intensive Care Med** 1996 Oct;22(10):1120–4
Continuous measurement of hemodynamic alterations during pharmacologic cardiovascular stress using automated impedance cardiography. Scherhag AW, et al. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):21S–28S
Assessment of the haemodynamic response to exercise by means of electrical impedance cardiography: method, validation and clinical applications. Bogaard HJ, et al. **Physiol Meas** 1997 May;18(2):95–105 (53 ref.)
The concurrent recording of electroencephalography and impedance cardiography: effects on EEG. Dalton KM, et al. **Psychophysiology** 1997 Jul;34(4):488–93
Ambulatory monitoring of the impedance cardiogram. Willemsen GH, et al. **Psychophysiology** 1996 Mar; 33(2):184–93

STANDARDS

Standardization of non–invasive impedance cardiography for assessment of stroke volume: comparison with thermodilution. Woltjer HH, et al. **Br J Anaesth** 1996 Dec; 77(6):748–52
Non–invasive estimations of ventricular ejection time and stroke volume: comparison of impedance cardiography and the Portapres 2. Fahrenberg J, et al. **J Med Eng Technol** 1997 Jan–Feb;21(1):15–22

STATISTICS & NUMERICAL DATA

Is measurement of cardiac output using impedance cardiography accurate? [letter; comment] Pennock BE. **Chest** 1997 Jun;111(6):1786. Comment on: Chest 1997 Feb;111(2):333–7.
The inaccuracy of Kubicek's one–cylinder model in thoracic impedance cardiography. Raaijmakers E, et al. **IEEE Trans Biomed Eng** 1997 Jan;44(1):70–6

CARDIOLIPINS

see related
ANTIBODIES, ANTICARDIOLIPIN
ANTIPHOSPHOLIPID SYNDROME

Outer leaflet–packing defects promote poly(ethylene glycol)–mediated fusion of large unilamellar vesicles. Lee J, et al. **Biochemistry** 1997 Jan 14;36(2):421–31
Surface plasmon resonance studies of complex formation between cytochrome c and bovine cytochrome c oxidase incorporated into a supported planar lipid bilayer. I. Binding of cytochrome c to cardiolipin/phosphatidylcholine membranes in the absence of oxidase. Salamon Z, et al. **Biophys J** 1996 Aug; 71(2):848–57
Surface plasmon resonance studies of complex formation between cytochrome c and bovine cytochrome c oxidase incorporated into a supported planar lipid bilayer. II. Binding of cytochrome c to oxidase–containing cardiolipin/phosphatidylcholine membranes. Salamon Z, et al. **Biophys J** 1996 Aug;71(2):858–67

ANALYSIS

Phospholipid composition of highly purified mitochondrial outer membranes of rat liver and Neurospora crassa. Is cardiolipin present in the mitochondrial outer membrane? de Kroon AI, et al. **Biochim Biophys Acta** 1997 Apr 3; 1325(1):108–16

BIOSYNTHESIS

Regulation of cardiolipin biosynthesis in H9c2 cardiac myoblasts by cytidine 5'–triphosphate. Hatch GM, et al. **J Biol Chem** 1996 Oct 18;271(42):25810–6
Regulation of cardiolipin biosynthesis in the heart. Hatch GM. **Mol Cell Biochem** 1996 Jun 21;159(2):139–48 (84 ref.)

CHEMISTRY

Formation of leukotoxin (9,10–epoxy–12–octadecenoic acid) during the autoxidation of phospholipids promoted by hemoproteins. Iwase H, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):27–34
Phosphorylation events associated with different states of activation of a hepatic cardiolipin/protease–activated protein kinase. Structural identity to the protein kinase N–type protein kinases. Peng B, et al. **J Biol Chem** 1996 Dec 13;271(50):32233–40
[Study of the interaction of ribonuclease with liposomes using competitive analysis] Gorbenko GP. **Ukr Biokhim Zh** 1996 Jan–Feb;68(1):55–60 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Finding neurosyphilis without the Venereal Disease Research Laboratory test. MacLean S, et al. **Sex Transm Dis** 1996 Sep–Oct;23(5):392–4

IMMUNOLOGY

Autoantibodies against cardiolipin and endothelial cells in Takayasu's arteritis: prevalence and isotype distribution [letter] Nityanand S, et al. **Br J Rheumatol** 1997 Aug; 36(8):923–4
Natural hidden antibodies reacting with DNA or cardiolipin bind to thymocytes and evoke their death. Zamulaeva IA, et al. **FEBS Lett** 1997 Aug 18;413(2):231–5
Antibodies to cardiolipin and beta 2 glycoprotein I in patients with polymyalgia rheumatica and giant cell arteritis. Meyer O, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):241–7
Species specificity of anti–beta 2 glycoprotein I autoantibodies and its relevance to anticardiolipin antibody quantitation. Arvieux J, et al. **Thromb Haemost** 1996 May; 75(5):725–30
Relationship of lupus anticoagulant, anticardiolipin, anti–beta2–GPI and anti–prothrombin autoantibodies with history of thrombosis in patients with the clinical suspicion of APA–syndrome [letter] D'Angelo A, et al. **Thromb Haemost** 1997 Aug;78(2):967–8
[Properties of free and hidden natural antibodies, reacting with DNA and cardiolipin] Lekakh IV, et al. **Mol Biol (Mosk)** 1997 Jan–Feb;31(1):176–9 **(Rus)**

METABOLISM

Asymmetrical distribution of cardiolipin in yeast inner mitochondrial membrane triggered by carbon catabolite repression. Gallet PF, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):627–34
Age–dependent decline in the cytochrome c oxidase activity in rat heart mitochondria: role of cardiolipin. Paradies G, et al. **FEBS Lett** 1997 Apr 7;406(1–2):136–8
Dietary fatty acid composition induces comparable changes in cardiolipin fatty acid profile of heart and brain mitochondria. McGee CD, et al. **Lipids** 1996 Jun; 31(6):611–6

PHARMACOLOGY

Specific cardiolipin binding interferes with labeling of sulfhydryl residues in the adenosine diphosphate/adenosine triphosphate carrier protein from beef heart mitochondria. Beyer K, et al. **Biochemistry** 1996 Dec 10;35(49):15784–90

PHYSIOLOGY

Effect of cardiolipin on functional properties of isolated rat liver mitochondria. Bobyleva V, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):469–80
Cardiolipin–dependent decrease of cytochrome c oxidase activity in heart mitochondria from hypothyroid rats. Paradies G, et al. **Biochim Biophys Acta** 1997 Mar 28; 1319(1):5–8

CARDIOLOGY

see related
CARDIOVASCULAR DISEASES
HEART DISEASES
VASCULAR DISEASES

Joint meeting of the Belgian and Dutch Working Groups in Cardiology. Brussels, Belgium, 6–7 December 1996. Abstracts. **Acta Cardiol** 1997;52(1):75–89
Award of the Professor Pierre Rijlant Foundation for Cardiac Electrophysiology. Lequime J. **Acta Cardiol** 1995; 50(6):411–2
Putting preventive cardiology into practice [editorial] Siwek J. **Am Fam Physician** 1997 Feb 1;55(2):436–7
Our vision for the American Heart Journal [editorial] Califf RM, et al. **Am Heart J** 1997 Jan;133(1):137–8
Stepping off the treadmill [letter] Flatt LJ. **Am Heart J** 1996 Dec;132(6):1323–4
Public release of cardiac surgery outcomes data in New York: what do New York state cardiologists think of it? Hannan EL, et al. **Am Heart J** 1997 Jul;134(1):55–61

Joseph Stephen Alpert, MD: a conversation with the editor [interview by William Clifford Roberts] Alpert JS. **Am J Cardiol** 1997 May 1;79(9):1208–21

Invasive, not interventional, cardiology [letter; comment] Cheng TO. **Am J Cardiol** 1997 Mar 15;79(6):845–6. Comment on: Am J Cardiol 1996 Sep 1;78(5):607–8.

Denton Arthur Cooley, MD: a conversation with the editor [interview by William Clifford Roberts] [see comments] Cooley DA. **Am J Cardiol** 1997 Apr 15;79(8):1078–91. Comment in: Am J Cardiol 1997 Aug 1;80(3):395.

Michael Ellis DeBakey: a conversation with the editor [interview by William C. Roberts] [see comments] DeBakey ME. **Am J Cardiol** 1997 Apr 1;79(7):929–50. Comment in: Am J Cardiol 1997 Aug 1;80(3):394–5.

Intake of antioxidants among American cardiologists. Mehta J. **Am J Cardiol** 1997 Jun 1;79(11):1558–60

Prevalence of spinal disc disease among interventional cardiologists. Ross AM, et al. **Am J Cardiol** 1997 Jan 1; 79(1):68–70

Cardiologists' perception of risk of coronary revascularization procedures. Vaitkus PT, et al. **Am J Cardiol** 1997 Aug 1;80(3):338–41

Are these interviewees actually good role models? [letter] Weiss R. **Am J Cardiol** 1997 Aug 1;80(3):394

Management of the cardiac transplant recipient: roles of the transplant cardiologist and primary care physician. Wagoner LE. **Am J Med Sci** 1997 Sep;314(3):173–84 (110 ref.)

Differences in clinical decision making between internists and cardiologists. Glassman PA, et al. **Arch Intern Med** 1997 Mar 10;157(5):506–12

Please write out the acronyms every time [letter; comment] Cheng TO. **Br J Clin Pract** 1997 Jan–Feb;51(1):64. Comment on: Br J Clin Pract 1996 Oct–Nov;50(7):354–6.

Report from the XVIIth Congress of the European Society of Cardiology, Birmingham, UK, 25–29 August 1996 [see comments] Purcell H. **Br J Clin Pract** 1996 Oct–Nov; 50(7):354–6. Comment in: Br J Clin Pract 1997 Jan–Feb;51(1):64.

Report from the 46th annual scientific session of the American College of Cardiology, Anaheim, California, 16–19 March 1997 [see comments] Wroe CD. **Br J Clin Pract** 1997 Apr–May;51(3):157–9. Comment in: Br J Clin Pract 1997 Apr–May;51(3):131–2.

4th International Conference on Preventive Cardiology jointly with the 37th annual meeting of the Council on Epidemiology and Prevention, American Heart Association. Montreal, June 29–July 3, 1997. Abstracts. **Can J Cardiol** 1997 Jun;13 Suppl B:11B–398B

RE: GR Cumming. The independent medical examination: cardiology assessment. 1996; 12:1245–52 [letter; comment] Dafoe W. **Can J Cardiol** 1997 May;13(5):443; discussion 443, 445. Comment on: Can J Cardiol 1996 Dec;12(12):1245–52.

RE: GR Cumming. The independent medical examination: cardiology assessment. 1996; 12:1245–52 [letter; comment] Guilmet–De Simone H, et al. **Can J Cardiol** 1997 May; 13(5):443. Comment on: Can J Cardiol 1996 Dec;12(12):1245–52.

Chest 1996. World Congress. San Francisco, California, October 27–31, 1996. Abstracts. **Chest** 1996 Oct;110(4 Suppl):1S–234S

Things are developing in cardiology [editorial; comment] Olson EN. **Circ Res** 1997 Apr;80(4):604–6. Comment on: Circ Res 1997 Apr;80(4):437–43. Comment on: Circ Res 1997 Apr;80(4):444–51. Comment on: Circ Res 1997 Apr;80(4):452–62. Comment on: Circ Res 1997 Apr;80(4):463–72. Comment on: Circ Res 1997 Apr;80(4):473–81.

A second term for the editors. Status and goals for the review process [editorial] Vatner SF, et al. **Circ Res** 1996 Jul; 79(1):1–3

69th Scientific Sessions of the American Heart Association. New Orleans, Louisiana, November 10–13, 1996. Abstracts. **Circulation** 1996 Oct 15;94(8 Suppl):I1–904

Why you should support the American Heart Association! Presented at the 69th scientific sessions of the American Heart Association. November 10, 1996. New Orleans, Louisiana. Breslow JL. **Circulation** 1996 Dec 1; 94(11):3016–22

Academic cardiology division in the era of managed care. A paradigm for survival [see comments] Feldman AM, et al. **Circulation** 1997 Feb 4;95(3):740–4 (25 ref.). Comment in: Circulation 1997 Feb 4;95(3):545. Comment in: Circulation 1997 Feb 4;95(3):546–7.

American College of Cardiology 45th Annual Scientific Session, Orlando, Florida, March 24 to 27, 1996. Ferguson JJ. **Circulation** 1996 Jul 1;94(1):1–5

Nutrition and children. A statement for healthcare professionals from the Nutrition Committee, American Heart Association. Fisher EA, et al. **Circulation** 1997 May 6;95(9):2332–3

The interventional cardiologist and the diabetic patient. Have we pushed the envelope too far or not far enough? [editorial; comment] Goldberg S, et al. **Circulation** 1996 Oct 15;94(8):1804–6. Comment on: Circulation 1996 Oct 15;94(8):1818–25.

Guide to primary prevention of cardiovascular diseases. A statement for healthcare professionals from the Task Force on Risk Reduction. American Heart Association Science Advisory and Coordinating Committee. Grundy SM, et al. **Circulation** 1997 May 6;95(9):2329–31

When to start cholesterol-lowering therapy in patients with coronary heart disease. A statement for healthcare professionals from the American Heart Association Task Force on Risk Reduction. Grundy SM, et al. **Circulation** 1997 Mar 18;95(6):1683–5

Management of deep vein thrombosis and pulmonary embolism. A statement for healthcare professionals. Council on Thrombosis (in consultation with the Council on Cardiovascular Radiology), American Heart Association. Hirsh J, et al. **Circulation** 1996 Jun 15; 93(12):2212–45 (451 ref.)

Automatic external defibrillators for public access defibrillation: recommendations for specifying and reporting arrhythmia analysis algorithm performance, incorporating new waveforms, and enhancing safety. A statement for health professionals from the American Heart Association Task Force on Automatic External Defibrillation, Subcommittee on AED Safety and Efficacy. Kerber RE, et al. **Circulation** 1997 Mar 18;95(6):1677–82

Terminology in cardiology [letter] Romanelli MF. **Circulation** 1997 Mar 18;95(6):1673

Risk-reduction therapy: the challenge to change. Presented at the 68th scientific sessions of the American Heart Association November 13, 1995 Anaheim, California. Smith SC Jr. **Circulation** 1996 Jun 15;93(12):2205–11

Surrogates, semantics, and sensible public policy. Sobel BE, et al. **Circulation** 1997 Mar 18;95(6):1661–3

Fiber, lipids, and coronary heart disease. A statement for healthcare professionals from the Nutrition Committee, American Heart Association. Van Horn L. **Circulation** 1997 Jun 17;95(12):2701–4 (53 ref.)

Preventive cardiology: whose job is it? Who will pay for it? What is the best strategy? Levy D, et al. **Cleve Clin J Med** 1996 Sep;63(5):275–9

Primary care or specialty care? [editorial] Conti CR. **Clin Cardiol** 1996 Feb;19(2):81–2

The future of pediatric cardiology: is there one? Moodie DS. **Clin Pediatr (Phila)** 1997 May;36(5):249–52

Bibliography current world literature. **Coron Artery Dis** 1996 Jul;7(7):553–9

Bibliography current world literature. **Coron Artery Dis** 1996 Apr;7(4):335–8

Bibliography current world literature. **Coron Artery Dis** 1996 Dec;7(12):935–8

Bibliography current world literature. **Coron Artery Dis** 1997 May;8(5):317–26

Health care reform: effects on electrophysiology and pacing. Naccarelli GV. **Curr Opin Cardiol** 1997 Jan;12(1):1–2

Cardiology. Jones J, et al. **Emerg Med Clin North Am** 1997 May;15(2):341–63 (65 ref.)

XVIIIth Congress of the European Society of Cardiology. Birmingham, United Kingdom, August 25–29, 1996. Abstracts. **Eur Heart J** 1996 Aug;17 Abstr Suppl:1–646

Future of paediatric cardiology and its patients [editorial; comment] Qureshi SA, et al. **Eur Heart J** 1997 Feb; 18(2):184–6. Comment on: Eur Heart J 1997 Feb;18(2):198–207.

Future of paediatric cardiology and its patients [see comments] Somerville J. **Eur Heart J** 1997 Feb; 18(2):198–207 (6 ref.). Comment in: Eur Heart J 1997 Feb;18(2):184–6.

Attitudes and opinions of French cardiologists towards smoking. Tessier JF, et al. **Eur J Epidemiol** 1995 Dec; 11(6):615–20

British Cardiac Society Annual Conference. Manchester, 20–22 May 1997. Abstract. **Heart** 1997 May;77 Suppl 1:P1–77

Putting the heart back into audit [editorial] Fox K. **Heart** 1997 Jan;77(1):9–10

Working as a cardiologist in the USA. Uren NG, et al. **Heart** 1997 Mar;77(3):194–7

48th annual conference of the Cardiological Society of India. October 6–9, 1996. Abstracts. **Indian Heart J** 1996 Sep–Oct; 48(5):475–557

Mediterranean Association of Cardiology and Cardiac Surgery 9th annual meeting. Tel-Aviv, Israel, 20–23 October 1996. Proceedings and abstracts. **Isr J Med Sci** 1996 Oct;32(10):795–1050

American College of Cardiology 46th annual scientific session. Anaheim, California, March 16–19, 1997 Abstracts. **J Am Coll Cardiol** 1997 Feb;29(2 Suppl A):1A–678A

Proceedings of the 28th Bethesda Conference. Practice Guidelines and the Quality of Care. Bethesda, Maryland, October 21–22, 1996. **J Am Coll Cardiol** 1997 May; 29(6):1125–79

28th Bethesda Conference. Task Force 3: Guidelines for credentialling practicing physicians. Beller GA, et al. **J Am Coll Cardiol** 1997 May;29(6):1148–62 (57 ref.)

Effect of managed care on cardiovascular specialists: involvement, attitudes and practice adaptations [see comments] DeMaria AN, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1884–95. Comment in: J Am Coll Cardiol 1996 Dec;28(7):1897–8.

28th Bethesda Conference. Task Force 2: Guideline implementation. Eagle KA, et al. **J Am Coll Cardiol** 1997 May;29(6):1141–8 (39 ref.)

Differences between primary care physicians and cardiologists in management of congestive heart failure: relation to practice guidelines. Edep ME, et al. **J Am Coll Cardiol** 1997 Aug;30(2):518–26

28th Bethesda Conference. Task Force 5: Assessment, approval, and regulation of new technology. Forrester JS, et al. **J Am Coll Cardiol** 1997 May;29(6):1171–9

ACC/AHA Guidelines for Exercise Testing. A report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Exercise Testing). Gibbons RJ, et al. **J Am Coll Cardiol** 1997 Jul;30(1):260–311 (343 ref.)

28th Bethesda Conference. Task Force 1: Clinical practice guideline development, dissemination and computerization. Jones RH, et al. **J Am Coll Cardiol** 1997 May;29(6):1133–41 (25 ref.)

President's page: managing with managed care [news; comment] Lewis RP. **J Am Coll Cardiol** 1996 Dec; 28(7):1897–8. Comment on: J Am Coll Cardiol 1996 Dec;28(7):1884–95.

President's page: cardiovascular research--is something missing? [news] Lewis RP. **J Am Coll Cardiol** 1997 Feb; 29(2):457–8

Why would anyone want to become a cardiologist these days? [editorial] Parmley WW. **J Am Coll Cardiol** 1997 Sep;30(3):843–4

Treatment of patients admitted to the hospital with congestive heart failure: specialty-related disparities in practice patterns and outcomes. Reis SE, et al. **J Am Coll Cardiol** 1997 Sep;30(3):733–8

28th Bethesda Conference. Introduction. Ritchie JL, et al. **J Am Coll Cardiol** 1997 May;29(6):1130–2

Mechanics and cardiology [letter] Sing RB. **J Assoc Physicians India** 1996 May;44(5):360

Bibliography of current world literature. **J Cardiovasc Risk** 1996 Aug;3(4):405–16

Diagnostic interpretation of electrocardiograms in population-based research: computer program research physicians, or cardiologists? de Bruyne MC, et al. **J Clin Epidemiol** 1997 Aug;50(8):947–52

More like war than peace [letter] Gbur CJ Jr, et al. **J Endovasc Surg** 1996 Feb;3(1):123

Differences in generalist and specialist physicians' knowledge and use of angiotensin-converting enzyme inhibitors for congestive heart failure [see comments] Chin MH, et al. **J Gen Intern Med** 1997 Sep;12(9):523–30. Comment in: J Gen Intern Med 1997 Sep;12(9):581–2.

Utilization and dosing of angiotensin-converting enzyme inhibitors for heart failure. Effect of physician specialty and patient characteristics [see comments] Chin MH, et al. **J Gen Intern Med** 1997 Sep;12(9):563–6. Comment in: J Gen Intern Med 1997 Sep;12(9):581–2.

The user-friendly nuclear cardiology report: what needs to be considered and what is included [editorial] Cerqueira MD. **J Nucl Cardiol** 1996 Jul–Aug;3(4):350–5

"We now join the freeway (information superhighway), which is already in progress" [editorial] Hendel RC. **J Nucl Cardiol** 1997 May–Jun;4(3):244–5

Blueprint of the certification examination in nuclear cardiology. Certification Council of Nuclear Cardiology. Wackers FJ, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):164–8

Certification exam to be offered in nuclear cardiology [news] **J Nucl Med** 1996 Jul;37(7):13N, 18N

The cardiology beat. An Internet education for patients and health professionals. Peters R, et al. **JAMA** 1997 Aug 13; 278(6):451–2

Physicians' judgments of the risks of cardiac procedures. Differences between cardiologists and other internists. Poses RM, et al. **Med Care** 1997 Jun;35(6):603–17

What's in a name? [letter; comment] Newton-John H. **Med J Aust** 1997 Aug 4;167(3):175–6. Comment on: Med J Aust 1997 Apr 7;166(7):372–3.

Evolution of cardiologic consultation. Kuhn LA. **Mt Sinai J Med** 1996 Jan;63(1):39–43

North Carolina medicine. A conversation with Dr. Gene Stead. [interview by Charles F. Wooley.] Stead EA Jr. **N C Med J** 1997 Sep–Oct;58(5):379–81

Outcome of acute myocardial infarction according to the specialty of the admitting physician [letter; comment] Belin DC. **N Engl J Med** 1997 May 29;336(22):1608; discussion 1608–9. Comment on: N Engl J Med 1996 Dec 19;335(25):1880–7.

The value of cardiology [editorial; comment] Goldman L. **N Engl J Med** 1996 Dec 19;335(25):1918–9. Comment on: N Engl J Med 1996 Dec 19;336(25):1880–7. Comment on: N Engl J Med 1996 Dec 19;335(25):1888–96.

Outcome of acute myocardial infarction according to the specialty of the admitting physician [see comments] Jollis JG, et al. **N Engl J Med** 1996 Dec 19;335(25):1880–7. Comment in: N Engl J Med 1996 Dec 19;335(25):1918–9. Comment in: N Engl J Med 1997 May 29;336(22):1607; discussion 1608–9. Comment in: N Engl J Med 1997 May 29;336(22):1607–8; discussion 1608–9. Comment in: N Engl J Med 1997 May 29;336(22):1608; discussion 1608–9.

Cardiac-surgery performance reports [letter; comment] Krieger LM. **N Engl J Med** 1997 Feb 6;336(6):442; discussion 443. Comment on: N Engl J Med 1996 Jul 25;335(4):251–6.

Cardiac-surgery performance reports [letter] Sessa EJ. **N Engl J Med** 1997 Feb 6;336(6):442–3; discussion 443

Web sites in cardiology. Mercando AD. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 1):2138–41

Pacing and electrophysiology in Australia. Vohra J. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1254–6

PediHeart: pediatric cardiology and cardiac surgery on the Internet [editorial] Birek A, et al. **Pediatr Cardiol** 1997 Sep–Oct;18(5):323–5

Elaine J. Stone, Ph.D., M.P.H. recipient of the Stokes Award

in Preventive Cardiology. **Prev Med** 1996 Sep–Oct; 25(5):642–3

Recommended guidelines for reviewing, reporting, and conducting research on in-hospital resuscitation: the in-hospital 'Utstein style'. A statement for healthcare professionals from the American Heart Association, the European Resuscitation Council, the Heart and Stroke Foundation of Canada, the Australian Resuscitation Council, and the Resuscitation Councils of Southern Africa. Cummins RO, et al. **Resuscitation** 1997 Apr; 34(2):151–83

Southern Africa Cardiac Society 20th Biennial Congress. 6–9 October 1996. Abstracts. **S Afr Med J** 1996 Oct;86(6 Suppl):4–32

XVIth Nordic congress of cardiology. Tampere, Finland, June 11–13, 1997. Abstracts. **Scand Cardiovasc J Suppl** 1997; 45:9–40

Annual joint meeting of the Swiss Society of Cardiology and the Swiss Society of Thoracic and Cardiovascular Surgery. Lausanne, 17–19 April 1997. Abstracts. **Schweiz Med Wochenschr Suppl** 1997;85:3S–60S **(Eng, Fre, Ger)**

Who should be doing endovascular surgery? [editorial] Diethrich EB. **Tex Heart Inst J** 1997;24(1):9–10

[A younger cardiologist on the Internet] Beck J. **Ugeskr Laeger** 1997 Jul 28;159(31):4743–5 **(Dan)**

[Annual meeting of Cardiology. Paris, May 30–31, 1996. Abstracts] **Ann Cardiol Angeiol (Paris)** 1996 Apr; 45(4):163–243 **(Fre)**

[Annual International Meeting of Cardiology. Paris, France, 29–30 May 1997. Abstracts] **Ann Cardiol Angeiol (Paris)** 1997 Apr;46(4):195–281 **(Fre)**

[Annual meeting of the Swiss Society of Cardiology and annual meeting of The Swiss Society of Infection. Zurich, 21–23 March 1996. Abstracts] **Schweiz Med Wochenschr Suppl** 1996;74 (Pt 2):3S–54S **(Fre)**

[18th European Cardiology Congress. Cardiology 200 years after discovery of digitalis glycosides. Birmingham/UK, 25–29 August 1996] Lindner UK, et al. **Internist (Berl)** 1996 Nov;37(11):1179–85 **(Ger)**

[Cardiology 96: "State of the art". 62nd Annual Congress of the German Society of Cardiology, 11–13 April 1996 in Mannheim] Stiefelhagen P. **Internist (Berl)** 1996 Sep; 37(9):955–8 **(Ger)**

[28th Annual meeting of the German Society of Pediatric Cardiology. Leipzig, 5–8 October 1996. Abstracts] **Z Kardiol** 1996 Sep;85(9):693–734 **(Ger)**

[63rd Annual meeting of the German Society of Cardiology and Cardiovascular Research. Mannheim, 3–5 April 1997. Abstracts] **Z Kardiol** 1997;86 Suppl 2:A6–385 **(Ger)**

[62nd Annual meeting of the German Association for Cardiology and Cardiovascular Research. Mannheim, 11–13 April 1996. Abstracts] **Z Kardiol** 1996;85 Suppl 2:1–331 **(Ger)**

[Opening address at the 62nd Annual Meeting of the German Society of Cardiology–Cardiovascular Research, Mannheim, 11–13 April 1996] Lüderitz B. **Z Kardiol** 1996; 85 Suppl 6:1–4 **(Ger)**

[Address of the president on the occasion of the 62nd Annual Meeting of the German Society of Cardiology–Cardiovascular Research, Mannheim, 11–13 April 1996] Meyer J. **Z Kardiol** 1996;85 Suppl 6:5–10 **(Ger)**

["The Stent Summit", 30–31 May 1996 in London] Grundmann RT. **Zentralbl Chir** 1996;121(9):794–5 **(Ger)**

[57th National Congress of the Italian Society of Cardiology. Rome, 10–13 December 1996. Abstracts] **Cardiologia** 1996 Dec;41 Suppl 5:7–155 **(Ita)**

[56th National Congress of the Italian Society of Cardiology. Rome, 12–15 December 1995. Abstracts] **Cardiologia** 1995 Dec;40(12 Suppl 2):1–138 **(Ita)**

[Point of view of the cardiologist working outside the hospital] Bianchi A. **Cardiologia** 1995 Dec;40(12 Suppl 1):603–4 **(Ita)**

[A new frontier: cardio–oncology] Cardinale D. **Cardiologia** 1996 Sep;41(9):887–91 **(Ita)**

[Point of view of the hospital cardiologist on the role of the physician working outside the hospital in cardiology care] Giovannini E. **Cardiologia** 1995 Dec;40(12 Suppl 1):605–8 **(Ita)**

[XXVIII National Congress of Cardiology, National Medical Hospital Cardiology Association. Firenze, 1–4 June 1997. Abstracts] **G Ital Cardiol** 1997;27 Suppl 1:3–140 **(Ita)**

[Cardiological protocols on determining eligibility for competitive sports 1995. Organizational Cardiological Committee on Eligibility for Sports (COCIS)] **G Ital Cardiol** 1996 Aug;26(8):949–83 **(Ita)**

[Dispersed cardiology and department therapy (editorial)] Baroldi G. **G Ital Cardiol** 1996 Nov;26(11):1323–8 **(Ita)**

[Impact factor: analysis of four years of scientific activity in a national cardiology department] Curti M, et al. **G Ital Cardiol** 1997 May;27(5):480–3 **(Ita)**

[Internet in cardiology: practical applications] Santoro E, et al. **G Ital Cardiol** 1996 Jul;26(7):775–92 (50 ref.) (Eng. Abstr.) **(Ita)**

[Proceedings of the 28th–34th meetings Tohoku Cardiography Study Group. 1992–1995. Japan. Abstracts] **J Cardiol** 1996;27 Suppl 1:1–56 **(Jpn)**

[44th Scientific Session of the Japanese College of Cardiology. Tokyo, September 25–27, 1996. Abstracts] **J Cardiol** 1996;28 Suppl 1:1–260 **(Jpn)**

[What happens with the clinician?] Bastos A. **Arq Bras Cardiol** 1996 Apr;66(4):187–8 **(Por)**

[XVII Portuguese Congress of Cardiology. Vila Moura Algarve, 21–24 April 1996. Abstracts] **Rev Port Cardiol** 1996 Apr;15 Suppl 3:III1–136 **(Por)**

[XVIII Portuguese Congress of Cardiology. Porto, 20–23 April 1997. Abstracts] **Rev Port Cardiol** 1997 Apr;16 Suppl 1:I11–99 **(Por)**

[Cardiological research in Portugal (editorial)] Ferreira R. **Rev Port Cardiol** 1997 Jan;16(1):107–8 **(Por)**

[The digital image archive—its clinical applications and importance in cardiology consulting by telemedicine] Fiuza M, et al. **Rev Port Cardiol** 1997 Feb;16(2):127–39, 123 (44 ref.) (Eng. Abstr.) **(Por)**

[Medical ethics at this end of the century] Lopes MR. **Rev Port Cardiol** 1997 Jan;16(1):11–8 **(Por)**

[Automatization of statistical processing of the cardiac information] Balybin DN, et al. **Med Tekh** 1996 Nov–Dec; (6):23–5 **(Rus)**

[XXXII National Congress of the Spanish Society of Cardiology. Tenerife, 28–31 October 1996. Abstracts] **Rev Esp Cardiol** 1996;49 Suppl 3:1–122 **(Spa)**

[Investigation methods in clinical cardiology. VI. Evaluation of results (outcomes) and its clinical relevance in cardiology: with a special reference to the quality of life] Brotons Cuixart C, et al. **Rev Esp Cardiol** 1997 Mar; 50(3):192–200 (44 ref.) (Eng. Abstr.) **(Spa)**

[Investigation methods in clinical cardiology. IV. Clinical measurements in cardiology: validity and errors of measurements] Latour J, et al. **Rev Esp Cardiol** 1997 Feb; 50(2):117–28 (Eng. Abstr.) **(Spa)**

[Research methods in clinical cardiology (VII). Experimental studies in cardiology] Muñiz J, et al. **Rev Esp Cardiol** 1997 Apr;50(4):268–77 (23 ref.) (Eng. Abstr.) **(Spa)**

[Current status of arterial hypertension as a cardiology topic: point of view of the cardiologist. Task force on Arterial Hypertension of the Spanish Cardiology Society] Palma Gámiz JL, et al. **Rev Esp Cardiol** 1997 Apr;50(4):217–24 (Eng. Abstr.) **(Spa)**

ECONOMICS

Do cardiologists do it better? **Nash IS**, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):475–8

Nuclear Cardiology and Managed Care: From Challenge to Opportunity. Proceedings of a symposium. Orlando, Florida, March 23, 1996. **J Nucl Cardiol** 1997 Mar–Apr; 4(2 Pt 2):S139–92

Nuclear cardiology in private practice. Bateman TM. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S184–8

Nuclear cardiology in hospital-based practice. Gibbons R. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S179–83

Cost–effectiveness of nuclear cardiology. Maddahi J, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S139–40

[In the future will economists determine our therapy? Comments during the European Cardiology Congress (see comments)] Jahrmärker H. **Med Klin** 1996 Jul 15; 91(7):472–6. Comment in: Med Klin 1996 Dec 15;91(12):809–11. **(Ger)**

[Methods of investigation in clinical cardiology. VIII. Socioeconomic evaluation of clinical cardiology practice] Lázaro de Mercado P. **Rev Esp Cardiol** 1997 Jun; 50(6):428–43 (Eng. Abstr.) **(Spa)**

EDUCATION

An innovative CME program in cardiology for primary care practitioners. O'Brien MK, et al. **Acad Med** 1996 Aug; 71(8):894–7; discussion 893

Developing a paradigm for training cardiovascular clinical investigators [editorial] Domanski M, et al. **Am J Cardiol** 1996 Oct 15;78(8):943–4

A conversation between two cardiologists [letter] Nash DT. **Am J Cardiol** 1996 Oct 1;78(7):859

The generalist/cardiovascular specialist: a proposal for a new training track. Fuster V, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):630–4

A new cardiology patient simulator. Takashina T, et al. **Cardiology** 1997 Sep–Oct;88(5):408–13

Evolution of academic divisions of cardiology [editorial; comment] Braunwald E. **Circulation** 1997 Feb 4;95(3):545 . Comment on: Circulation 1997 Feb 4;95(3):740–4.

Recommendations of the European Board for the Specialty Cardiology (EBSC) for education and training in basic cardiology in Europe. The Executive Committee of the European Board for the Specialty Cardiology. **Eur Heart J** 1996 Jul;17(7):996–1000

Recommendations for training and quality control in coronary angioplasty. The study group Clinical Issues, working group Coronary Circulation, of the European Society of Cardiology. **Eur Heart J** 1996 Oct; 17(10):1477–81

Management of adults with congenital heart disease [editorial] Hunter S. **Heart** 1997 Jul;78(1):15

American College of Cardiology report on ECGEXAM. Mason JW, et al. **J Am Coll Cardiol** 1997 Feb;29(2):466–8

Education—the foundation and future of the ACC. Popp RL. **J Am Coll Cardiol** 1997 Sep;30(3):845–6

Integrating geriatrics into cardiology training programs [editorial] Applegate WB, et al. **J Am Geriatr Soc** 1997 May;45(5):641–2

Effectiveness of nuclear cardiology training guidelines: a comparison of trainees with experienced readers [see comments] Golub RJ, et al. **J Nucl Cardiol** 1996 Mar–Apr; 3(2):114–8. Comment in: J Nucl Cardiol 1996 Mar–Apr;3(2):95.

Who is interpreting nuclear cardiology studies in the United States, and what are the requirements for privileges? A national survey of institutional policies from 80 major medical centers. Sorrell VL, et al. **J Nucl Cardiol** 1997 Jul–Aug;4(4):309–15

The primacy of our trainees [editorial; comment] Zaret BL. **J Nucl Cardiol** 1996 Mar–Apr;3(2):95. Comment on: J Nucl Cardiol 1996 Mar–Apr;3(2):114–8. Comment on: J Nucl Cardiol 1996 Mar–Apr;3(2):183–4.

Experience and training in temporary transvenous pacing [see comments] Davis GK, et al. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):432–4. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):111.

Training of a cardiologist in the United States. Shubrooks SJ Jr. **Keio J Med** 1996 Mar;45(1):9–13

Recommendations of the European Board for the Specialty Cardiology (EBSC) for education and training in basic cardiology in Europe. The Executive Committee of the European Board for the Specialty Cardiology. **Rev Port Cardiol** 1996 Dec;15(12):947–51

[Continuing medical education via questionnaire studies. Three pilot projects for anesthesiology, cardiology and neurology] Mortensen P, et al. **Ugeskr Laeger** 1997 May 19;159(21):3140–5 (Eng. Abstr.) **(Dan)**

[Continuing education of the cardiologist (editorial)] Guérot C. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):207–8 **(Fre)**

[A case-based and multi-media computer learning program on the topic of myocardial infarct, angina pectoris and mitral valve stenosis] Friedl R, et al. **Med Klin** 1996 Sep 15;91(9):564–9 (Eng. Abstr.) **(Ger)**

[Systematic reviews in cardiology: approaches to evidence-based medicine and the Cochrane Collaboration] Hense HW, et al. **Z Kardiol** 1997 May;86(5):313–9 (30 ref.) (Eng. Abstr.) **(Ger)**

[Methodological bases for the training of a therapist in cardiology in light of physician certification] Selivonenko VG, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):195–8 (Eng. Abstr.) **(Rus)**

[Guidelines and recommendations of the Mexican Society of Cardiology for training in cardiology] Galván Montiel O. **Arch Inst Cardiol Mex** 1996 May–Jun;66(3):288–90 **(Spa)**

[Guidelines and recommendations for teaching and practice of cardiac catheterization. The working group for the establishment of guidelines in cardiac catheterization, Mexican Society of Cardiology] Gaspar J, et al. **Arch Inst Cardiol Mex** 1997 Jan–Feb;67(1):73–8 **(Spa)**

[Requirements, guidelines and recommendations of the Mexican Society of Cardiology concerning teaching of cardiology] Guadalajara Boo JF, et al. **Arch Inst Cardiol Mex** 1996 Nov–Dec;66(6):539–43 **(Spa)**

[The teaching of cardiology in the system for training the general practice physician] Kupnovyts'ka IH. **Lik Sprava** 1995 Mar–Apr;(3–4):201–3 **(Ukr)**

HISTORY

Developmental history of Acta Cardiologica. International Journal of Cardiology 1945–1995. Lequime J. **Acta Cardiol** 1995;50(5):331–42

Forty-two years in cardiology [editorial] Mason DT. **Am Heart J** 1996 Dec;132(6):1335–40 .

The Sir James Mackenzie Cardiological Society and the American College of Cardiology. Kligfield P, et al. **Am J Cardiol** 1996 Oct 1;78(7):808–13

James Thornton Willerson, MD: a conversation with the editor [interview by William Clifford Roberts] Willerson JT. **Am J Cardiol** 1997 Feb 15;79(4):457–67

Karl Rokitanski. Fejfar Z, et al. **Clin Cardiol** 1997 Sep; 20(9):816–8

Joseph Skoda. Fejfar Z, et al. **Clin Cardiol** 1997 Aug; 20(8):740–1

John Eric Erichsen. Fye WB. **Clin Cardiol** 1997 Jul; 20(7):665–6

Andrea Cesalpino. Fye WB. **Clin Cardiol** 1996 Dec; 19(12):969–70

Giovanni Alfonso Borelli. Fye WB. **Clin Cardiol** 1996 Jul; 19(7):599–600

Lorenzo Bellini. Fye WB. **Clin Cardiol** 1997 Feb;20(2):181–2

Jean Baptiste Bouillaud. Silverman BD. **Clin Cardiol** 1996 Oct;19(10):836–7

J. Willis Hurst—a man of achievement. Silverman ME. **Clin Cardiol** 1997 Jun;20(6):584–6

Wilhelm Raab. Surawicz B. **Clin Cardiol** 1997 Mar; 20(3):310–1

Robert Adams—"a Dublin master of clinical expression". Wooley CF. **Clin Cardiol** 1996 Jun;19(6):523–4

A short history of cardiology. Fleming RR. **Clio Med** 1997; 40:ix–xviii, 1–229

Paul Dudley White (1886–1973). Davies MK, et al. **Heart** 1996 Aug;76(2):182

Leonardo da Vinci (1452–1519). Davies MK, et al. **Heart** 1996 Dec;76(6):464

John Honour, Sir Thomas Lewis's personal laboratory assistant. Hollman A. **Heart** 1997 Jun;77(6):568–71

Thomas Lewis, a father of modern cardiology. Krikler DM. **Heart** 1997 Feb;77(2):102–3

George Ralph Mines, ventricular fibrillation and the discovery of the vulnerable period. DeSilva RA.

J Am Coll Cardiol 1997 May;29(6):1397–402
1996 Inge Edler Lecture. The miracle of echocardiography: a clinician's retroprospective. Parisi AF.
J Am Soc Echocardiogr 1997 Mar;10(2):97–106
Zuhdi relates history of heart–lung machine [letter; comment] Zuhdi N. **J Okla State Med Assoc** 1996 Aug;89(8):300–1 . Comment on: J Okla State Med Assoc 1996 Mar;89(3):97–106.
Helen Brooke Taussig, M.D.: the original pediatric cardiologist. Friedman M. **Md Med J** 1997 Sep;46(8):445–7
Historical glimpses of pediatric cardiology [editorial] Abdulla R. **Pediatr Cardiol** 1997 Mar–Apr;18(2):77
Cardiac disease construction on the borderland. Daly J, et al. **Soc Sci Med** 1997 Apr;44(7):1043–9
The Texas Heart Institute Award for undergraduate writing in the history of cardiovascular medicine and surgery. Mohammed Nasier Khan 1996 winner.
Tex Heart Inst J 1996;23(4):257
Egyptian contributions to cardiovascular medicine [see comments] Willerson JT, et al. **Tex Heart Inst J** 1996; 23(3):191–200. Comment in: Tex Heart Inst J 1996;23(4):315.
[The birth of hemodynamics] Cosmacini G. **Cardiologia** 1996 Dec;41(12):1221–3 **(Ita)**
[A symbol without "head" (testa=head). Antonio Giuseppe Testa] Cosmacini G. **Cardiologia** 1995 Dec;40(12):963–4 **(Ita)**
[Cardiologic culture on both sides of the Atlantic, or gratitude to the masters of Italian cardiology] Cerisano S, et al. **G Ital Cardiol** 1996 Jul;26(7):839–41 (6 ref.) **(Ita)**
[Dr. Joseph Pawinski physician and humanist] Zobolewicz B. **Arch Hist Med (Warsz)** 1972;35(4):437–42 **(Pol)**
[The development of cardiology in the evolution of scientific thinking] de Micheli A. **Arch Inst Cardiol Mex** 1996 Jul–Aug;66(4):370–6 **(Spa)**

INSTRUMENTATION

The device with a name on it [editorial] Holmes DR Jr, et al. **Am J Cardiol** 1997 Mar 15;79(6):793
What is a stent and where can you get one? O'Brien JC Jr, et al. **Am J Cardiol** 1997 May 1;79(9):1306
Mechanical measurements from isolated cardiac myocytes using a pipette attachment system. Palmer RE, et al.
Am J Physiol 1996 Feb;270(2 Pt 1):C697–704
A new cardiology patient simulator. Takashina T, et al.
Cardiology 1997 Sep–Oct;88(5):408–13
Acute myocardial infarction detected in the 12-lead ECG by artificial neural networks. Hedén B, et al.
Circulation 1997 Sep 16;96(6):1798–802
The role of stents in cardiology: advantages and complications [editorial; comment] Eldar M.
Isr J Med Sci 1996 Sep;32(9):777–8 (19 ref.). Comment on: Isr J Med Sci 1996 Sep;32(9):722–5.
Atomic (scanning) force microscopy in cardiovascular research. Arnsdorf MF, et al.
J Cardiovasc Electrophysiol 1996 Jul;7(7):639–52 (82 ref.)
[Automatic report documentation in cardiology using a speech recognition system] Dietz U, et al. **Z Kardiol** 1996 Sep;85(9):684–8 (Eng. Abstr.) **(Ger)**
[Dynamic and cinematic evaluation of the function of bioprosthesis in the aortic position: tester of cardiac valves] Bustamante J, et al. **Arch Inst Cardiol Mex** 1996 May–Jun; 66(3):229–43 (Eng. Abstr.) **(Spa)**

LEGISLATiON & JURISPRUDENCE

Cardiologist admits research misconduct [news] Dyer C.
BMJ 1997 May 24;314(7093):1501
RBRVS: the second coming. Saksena S.
Pacing Clin Electrophysiol 1996 Feb;19(2):252–3
[Measurements of productivity and efficiency of a first level director in a cardiology referral clinic. Their use in the final determination of work load in accordance with DL 29/1993] Bernardi G, et al. **G Ital Cardiol** 1997 Apr; 27(4):387–95 (Eng. Abstr.) **(Ita)**
[Measurements of productivity and efficiency of a first level director in a cardiology referral clinic. Their use in the final determination of work load in accordance with DL 29/1993 (editorial)] Ramponi C. **G Ital Cardiol** 1997 Apr; 27(4):396–8 **(Ita)**

MANPOWER

What influences the frequency of angiography ... cardiologists? [letter; comment] Page J, et al.
Ann Intern Med 1997 Aug 1;127(3):244–5. Comment on: Ann Intern Med 1997 Jan 1;126(1):13–9.
Are we training too many cardiologists? [editorial] Beller GA, et al. **Circulation** 1997 Jul 15;96(2):372–8
President's page: too many cardiologists? Lewis RP.
J Am Coll Cardiol 1997 Mar 1;29(3):703–4
Follow-up evaluation of computerized electrocardiographic interpretations: a comparison of cardiologists' vs. internists' performance. Pryor WW, et al. **J S C Med Assoc** 1996 Aug;92(8):339–43

METHODS

Cardiovascular indexes in the mouse at rest and with exercise: new tools to study models of cardiac disease. Desai KH, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H1053–61
Estimation of nonmechanical VO2 in isolated rabbit heart: comparison of mechanical unloading and BDM method. Higashiyama A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H1032–7
Comparison of two techniques for measuring two–dimensional strain in rat left ventricles. Omens JH, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1256–61
Mechanical measurements from isolated cardiac myocytes using a pipette attachment system. Palmer RE, et al.
Am J Physiol 1996 Feb;270(2 Pt 1):C697–704
A technique to assess aortic distensibility and compliance in anesthetized and awake rats. Van Gorp A, et al.
Am J Physiol 1996 Feb;270(2 Pt 2):H780–6
Inhibitor index: a novel method for measuring pharmacological inhibition of angiotensin–converting enzyme. Reneland R, et al. **Blood Press** 1997 Mar; 6(2):103–8
Stenting coarctation of the aorta: promising concept but primitive technology [editorial; comment] Ruiz CE, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):43. Comment on: Cathet Cardiovasc Diagn 1996 Sep;39(1):36–42.
Coronary and myocardial blood volumes: noninvasive tools to assess the coronary microcirculation? [editorial; comment] Kaul S, et al. **Circulation** 1997 Aug 5; 96(3):719–24 (45 ref.). Comment on: Circulation 1997 Aug 5;96(3):1004–11.
Single–beat estimation of end–systolic pressure–volume relation in humans. A new method with the potential for noninvasive application. Senzaki H, et al. **Circulation** 1996 Nov 15;94(10):2497–506
Prevention. **Curr Opin Cardiol** 1997 Mar;12(2):B65–6
The role of antioxidants in preventive cardiology. Rimm EB, et al. **Curr Opin Cardiol** 1997 Mar;12(2):188–94 (31 ref.)
Preventive cardiology in the elderly. Wenger NK.
Curr Opin Cardiol 1997 Mar;12(2):195–201 (39 ref.)
Challenges and evolving contributions of epidemiology in nephrology and hypertension [editorial] Whelton PK.
Curr Opin Nephrol Hypertens 1996 May;5(3):203–4
Advances in preventive cardiology. Schieken RM.
Curr Opin Pediatr 1996 Oct;8(5):527–30 (17 ref.)
The 1996 Grüntzig Lecture. Stents: a mechanical solution for a biological problem? Sigwart U. **Eur Heart J** 1997 Jul;18(7):1068–72
Usefulness, usability, and quality criteria for noninvasive methods in cardiovascular clinical pharmacology. de Mey C, et al. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):11S–20S (109 ref.)
Towards a comprehensive telecardiology monitoring centre for community–based services. Shanit D, et al.
J Telemed Telecare 1997;3 Suppl 1:60–2
The contribution of telemedicine to cardiology. Tsagaris MJ, et al. **J Telemed Telecare** 1997;3 Suppl 1:63–4
[Importance of meta–analysis in cardiology] Castaigne A.
Therapie 1997 Jan–Feb;52(1):9–11 **(Fre)**
[Expert systems in cardiology: possibilities, limitations, and perspectives] Muscari A. **Cardiologia** 1995 Dec;40(12 Suppl 1):501–5 **(Ita)**
[Methods of investigation in clinical cardiology. X. Studies on the evaluation of diagnostic tests in cardiology] Cabello López JB, et al. **Rev Esp Cardiol** 1997 Jul;50(7):507–19 (49 ref.) (Eng. Abstr.) **(Spa)**
[Research methods in clinical cardiology (II). Observational studies (II): natural history and prognosis in cardiology. Methodology] Varas Lorenzo C, et al. **Rev Esp Cardiol** 1996 Dec;49(12):906–18 (35 ref.) (Eng. Abstr.) **(Spa)**

ORGANIZATION & ADMINISTRATION

Applying the object paradigm to a centralized database for a cardiology division. Fabbretti R, et al.
Int J Biomed Comput 1996 Jul;42(1–2):129–34
Design and implementation of a nuclear cardiology testing facility in a private–practice cardiology office setting. Bateman TM, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):156–63
[Cardiology and heart surgery in the dawn of the 21st century. The viewpoint of policy makers] Delamuraz JP.
Rev Med Suisse Romande 1997 Aug;117(8):623–5 **(Fre)**

STANDARDS

What is ESMIR? [letter; comment] Cheng TO.
Am J Cardiol 1997 Jul 1;80(1):110. Comment on: Am J Cardiol 1997 Feb 1;79(3):334–8.
Who is an interventional cardiologist? Bottner RK, et al.
Cathet Cardiovasc Diagn 1997 Jun;41(2):120–3 (6 ref.)
ACC/AHA guidelines for exercise testing: executive summary. A report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Exercise Testing). Gibbons RJ, et al. **Circulation** 1997 Jul 1;96(1):345–54
Producing consistent estimates of the power spectral density of NN sequences [letter] Malik M. **Circulation** 1997 Sep 16;96(6):2082–3
Pathways of coronary care--a computer–simulation model of the potential for health gain. Bensley DC, et al.
IMA J Math Appl Med Biol 1995 Sep–Dec;12(3–4):315–28
Do cardiologists do it better? Nash IS, et al.
J Am Coll Cardiol 1997 Mar 1;29(3):475–8
A cardiac surgeon's perspective. Taylor KM.
J Heart Valve Dis 1996 Jun;5 Suppl 1:S7–8 (0 ref.)
Statement on mobile and remote–site provision of nuclear cardiology imaging services. American Society of Nuclear Cardiology. Bateman TM, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):174–7
Certification in nuclear cardiology [editorial] [see comments] Wackers FJ. **J Nucl Cardiol** 1996 Mar–Apr;3(2):183–4. Comment in: J Nucl Cardiol 1996 Mar–Apr;3(2):95.
[Development of standards for quality management in interventional cardiology] Brennecke R. **Herz** 1996 Oct; 21(5):304–13 (45 ref.) (Eng. Abstr.) **(Ger)**
[Guidelines in cardiology: how much and how are they transferable to the reality in health care?] Specchia G, et al. **Cardiologia** 1996 Oct;41(10):929–36 (26 ref.) **(Ita)**
[The first congresses on different topics in cardiology: develop quality of myocardial infarction care] Wettervik C, et al. **Lakartidningen** 1996 Oct 9;93(41):3582–4 **(Swe)**
[What can be expected from a cardiologist in Europe?] Rehnqvist N. **Nord Med** 1996 Feb;111(2):56 **(Swe)**

STATISTICS & NUMERICAL DATA

Utilization of echocardiography by internists and cardiologists: a comparative study. Calenda P, et al.
Am J Med 1996 Dec;101(6):584–91
[Registries of morbimortality in cardiology: methods] Marrugat J, et al. **Rev Esp Cardiol** 1997 Jan;50(1):48–57 (Eng. Abstr.) **(Spa)**
[Survey of the opinion of the readers of Revista Espanôla de Cardiología] Marrugat de la Iglesia J.
Rev Esp Cardiol 1997 Jan;50(1):1–4 (Eng. Abstr.) **(Spa)**
[Registry of activities at the Section of Hemodynamics and Interventional Cardiology in 1995] Zueco J, et al.
Rev Esp Cardiol 1996 Oct;49(10):714–22 (Eng. Abstr.) **(Spa)**

TRENDS

Changing impact of fetal diagnosis of congenital heart disease. Sharland G. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F1–3
Sodium–calcium exchange: recent advances. Hryshko LV, et al. **Basic Res Cardiol** 1997;92 Suppl 1:45–51 (90 ref.)
Evolution of academic divisions of cardiology [editorial; comment] Braunwald E. **Circulation** 1997 Feb 4;95(3):545 . Comment on: Circulation 1997 Feb 4;95(3):740–4.
Heart failure therapy in evolution [editorial] Chatterjee K.
Circulation 1996 Dec 1;94(11):2689–93
Dual–chamber versus ventricular pacing. Critical appraisal of current data. Connolly SJ, et al. **Circulation** 1996 Aug 1;94(3):578–83 (53 ref.)
James B. Herrick Lecture. Cardiologist adapts to healthcare change for the year 2000. Gorlin R. **Circulation** 1996 Oct 1;94(7):1781–5
New developments in the calcium channel antagonist controversy [letter; comment] Opie LH. **Circulation** 1997 Mar 18;95(6):1668–70. Comment on: Circulation 1995 Sep 1;92(5):1068–73. Comment on: Circulation 1995 Sep 1;92(5):1326–31. Comment on: Circulation 1996 Apr 1;93(7):1475–6.
Multiple mechanisms in the long–QT syndrome. Current knowledge, gaps, and future directions. The SADS Foundation Task Force on LQTS. Roden DM, et al.
Circulation 1996 Oct 15;94(8):1996–2012 (167 ref.)
Update on local cardiac renin–angiotensin system. Ruzicka M, et al. **Curr Opin Cardiol** 1997 Jul;12(4):347–53 (30 ref.)
Equine cardiovascular medicine: past, present and future [editorial; comment] Pipers FS. **Equine Vet J Suppl** 1995 Sep;(19):3–4. Comment on: Equine Vet J Suppl 1995 Sep;(19):71–80.
New developments in antiplatelet and antithrombotic therapy. Verstraete M. **Eur Heart J** 1995 Nov;16 Suppl L:16–23 (76 ref.)
The future of cardiovascular medicine. An opportunity for prevention and rehabilitation. Greenland P.
J Cardiopulm Rehabil 1996 Jul–Aug;16(4):219–25 (34 ref.)
Research and technology transfer in computerized electrocardiology. Proceedings of the 21st annual ISCE conference. Chandler, Arizona, April 20–25, 1996.
J Electrocardiol 1996;29 Suppl:1–281
Nuclear cardiology: new developments and future directions. Iskandrian AE, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S189–92
To be mainstreamed or marginalized [editorial] Zaret BL.
J Nucl Cardiol 1996 Jul–Aug;3(4):289–90
Cardiovascular and interventional technologists: their growing role in the interventional suite [letter] Burke TH, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):720
Cardiovascular disease. Gore JM, et al. **JAMA** 1997 Jun 18; 277(23):1845–6
Lipoprotein patterns, plaque, homocysteine, and hormones among ongoing cardiology studies [news] Gunby P.
JAMA 1996 Oct 9;276(14):1122–7
Cardiology. Acute coronary syndromes: Virchow's triad revisited. Janssens S, et al. **Lancet** 1996 Dec 21–28;348 Suppl 2:sII2 (5 ref.)
Cardiology in South Africa--where to? Address given at the 20th Biennial Congress of the Southern Africa Cardiac Society, October 1996 [editorial] Commerford PJ.
S Afr Med J 1997 Feb;87 Suppl 1:C5–7
[Cardiology 96: "State of the art". 62nd anniversary of the German Society for Cardiology. April, 11–13, 1996, Manheim] Stiefelhagen P. **Anaesthesist** 1996 Aug; 45(8):760–3 **(Ger)**
[Cardiology 97: American College of Cardiology. Anaheim, California. March 9–16, 1997] Stiefelhagen P, et al.
Anaesthesist 1997 Jul;46(7):647–51 **(Ger)**
[Current differential therapy for coronary intervention.

Proceedings of a symposium. January 1995] **Z Kardiol** 1996; 85 Suppl 1:1–106 **(Ger)**

[Italian clinical cardiology research at the international level. Statistical data from the period 1983–1993] Massarelli G, et al. **Cardiologia** 1997 May;42(5):513–7 (Eng. Abstr.) **(Ita)**

[Italian cardiology and the Italian Journal of Cardiology: the desire not to cut a poor figure] Prati PL. **G Ital Cardiol** 1997 Jan;27(1):1–2 **(Ita)**

[Cardiology—ways of progress] Tendera M. **Pol Arch Med Wewn** 1997;97 Spec No:60–1, 64–8 (43 ref.) **(Pol)**

[The European Cardiologist of the year 2000. II (editorial)] Ferreira R. **Rev Port Cardiol** 1996 Dec;15(12):945–6 **(Por)**

[New challenges for the Sociedade Portuguesa de Cardiologia] van Zeller P. **Rev Port Cardiol** 1997 May; 16(5):481–5 **(Por)**

[The outlook for gene therapy in cardiology] Metelitsa VI. **Ter Arkh** 1997;69(2):71–6 (39 ref.) **(Rus)**

[The future of cardiology in Spain from the perspective of the last 30 years (editorial)] Balaguer Vintró I. **Rev Esp Cardiol** 1997 Feb;50(2):71–4 (Eng. Abstr.) **(Spa)**

[Methods of investigation in clinical cardiology. VIII. Meta-analysis and systematic reviews in cardiology] Guallar E, et al. **Rev Esp Cardiol** 1997 May;50(5):345–54 (43 ref.) (Eng. Abstr.) **(Spa)**

[Cardiology of yesterday, today and tomorrow] Beregovich J. **Rev Med Chil** 1996 Mar;124(3):367–70 (Eng. Abstr.) **(Spa)**

[Laser fluorescence spectroscopy in cardiology: the problems and outlook] Zalesskyĭ VM, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):7–10 (32 ref.) **(Ukr)**

CARDIOLOGY SERVICE, HOSPITAL

see related

CORONARY CARE UNITS

Coronary patients need cardiologists. Bethell HJ. **Heart** 1997 Apr;77(4):389

Cardiac catheterisation performed by a clinical nurse specialist [see comments] Boulton BD, et al. **Heart** 1997 Aug;78(2):194–7. Comment in: Heart 1997 Aug;78(2):109.

Clinical nurse specialists in the catheter laboratory: a time for change or a bridge too far? [comment] Roberts DH. **Heart** 1997 Aug;78(2):109. Comment on: Heart 1997 Aug;78(2):194–7.

[Point of view of the hospital cardiologist on the role of the physician working outside the hospital in cardiology care] Giovannini E. **Cardiologia** 1995 Dec;40(12 Suppl 1):605–8 **(Ita)**

[Apropos of 2 anniversaries] Lima M. **Acta Med Port** 1996 Feb–Mar;9(2–3):121–4 (Eng. Abstr.) **(Por)**

[Coronary angioplasty at a center without heart surgery. The experience of the 1st year] Carvalho H, et al. **Rev Port Cardiol** 1997 Feb;16(2):197–200 **(Por)**

ECONOMICS

Cost-effectiveness of mandatory stress testing in chest pain center patients [see comments] Mikhail MG, et al. **Ann Emerg Med** 1997 Jan;29(1):88–98. Comment in: Ann Emerg Med 1997 Jan;29(1):168–71.

Risk factors for higher cost in congenital heart operations. Ungerleider RM, et al. **Ann Thorac Surg** 1997 Jul; 64(1):44–8; discussion 49

Critical pathways and cost-effective practice. Patterson RB, et al. **Semin Vasc Surg** 1997 Jun;10(2):113–8

ORGANIZATION & ADMINISTRATION

Structuring cardiology services for the 21st century. Mangan B. **Am J Crit Care** 1996 Nov;5(6):406–11

Toward the paperless hospital? Harper RH, et al. **Br J Anaesth** 1997 Jun;78(6):762–7

Open-access echocardiography to general practitioners for suspected heart failure. Murphy JJ, et al. **Br J Gen Pract** 1996 Aug;46(409):475–6

Long-term outcome in acute myocardial infarction patients admitted to hospitals with and without on-site cardiac catheterization facilities. MITI Investigators. Myocardial Infarction Triage and Intervention [see comments] Every NR, et al. **Circulation** 1997 Sep 16;96(6):1770–5. Comment in: Circulation 1997 Sep 16;96(6):1711–2.

Does the presence of an on-site cardiac catheterization facility in a hospital alter the long-term outcome of patients admitted with acute myocardial infarction? [editorial; comment] Schlant RC. **Circulation** 1997 Sep 16; 96(6):1711–2. Comment on: Circulation 1997 Sep 16;96(6):1770–5.

Cardiothoracic surgery at Tripler Army Medical Center. Nellstein ME, et al. **Hawaii Med J** 1997 Mar;56(3):58

How to run a heart surgical unit: experiences during the first year of the Department of Cardiothoracic and Vascular Surgery, University Clinic of Regensburg. Zurbrügg HR, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):53–61

Utility of a standardized sign-out card for new medical interns. Lee LH, et al. **J Gen Intern Med** 1996 Dec; 11(12):753–5

Collaboration between a referring hospital and a tertiary care center in improving the transfer process for cardiac patients. Sivaram CA, et al. **Jt Comm J Qual Improv** 1996 Dec;22(12):795–800

Reengineering a cardiovascular surgery service. Tunick PA, et al. **Jt Comm J Qual Improv** 1997 Apr;23(4):203–16

A heartening exchange. Whitten JC. **Minn Med** 1997 Jul; 80(7):20–4

A computer database for a cardiology clinic. Lees PJ, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1248–53

[A databank at a cardiology department: various tips] Bonamini R. **Cardiologia** 1995 Dec;40(12 Suppl 1):485–9 **(Ita)**

[Computerization of cardiologic departments] Drago AL, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):479–83 **(Ita)**

STANDARDS

Effect of continuous quality improvement analysis on the delivery of primary percutaneous transluminal coronary angioplasty for acute myocardial infarction. Caputo RP, et al. **Am J Cardiol** 1997 May 1;79(9):1159–64

Using Medicare claims data to assess provider quality for CABG surgery: does it work well enough? Hannan EL, et al. **Health Serv Res** 1997 Feb;31(6):659–78

Dynamic duo. The growth of managed care is dramatically changing the way doctors and nurses work together. Lumsdon K. **Hosp Health Netw** 1996 Nov 5;70(21):26–30, 32

A collaborative project in Connecticut to improve the care of patients with acute myocardial infarction. Meehan TP, et al. **Jt Comm J Qual Improv** 1996 Nov;22(11):751–61

Using qualitative and quantitative patient satisfaction data to improve the quality of cardiac care. Niles N, et al. **Jt Comm J Qual Improv** 1996 May;22(5):323–35

Does QI work? The Management to Improve Survival in Congestive Heart Failure (MISCHF) study [see comments] Philbin EF, et al. **Jt Comm J Qual Improv** 1996 Nov; 22(11):721–33. Comment in: Jt Comm J Qual Improv 1996 Nov;22(11):719–20.

Outcomes of acute myocardial infarction in the Department of Veterans Affairs: does regionalization of health care work? Wright SM, et al. **Med Care** 1997 Feb;35(2):128–41

[A model for study of quality of myocardial infarction care. Distinct targets improve the care (see comments)] Forslund L, et al. **Lakartidningen** 1996 Oct 16;93(42):3697–700. Comment in: Lakartidningen 1997 Aug 6;94(32–33):2715. **(Swe)**

STATISTICS & NUMERICAL DATA

Fast-track cardiac surgery in a Department of Veterans Affairs patient population. London MJ, et al. **Ann Thorac Surg** 1997 Jul;64(1):134–41

TRENDS

Coronary care. Bypassing a high-cost surgery. Blecher MB. **Hosp Health Netw** 1997 Apr 5;71(7):104

The other shoe with E-care: cardiac experiences fifteen years apart. Loughlin WC. **Pharos** 1997 Spring;60(2):21–3

UTILIZATION

Variations in use of cardiology services in a health authority: comparison of coronary artery revascularisation rates with prevalence of angina and coronary mortality. Payne N, et al. **BMJ** 1997 Jan 25;314(7076):257–61

Coronary angioplasty volume-outcome relationships for hospitals and cardiologists. Hannan EL, et al. **JAMA** 1997 Mar 19;277(11):892–8

[Report on structure and performance statistics of heart catheterization laboratories in Germany. Results of a survey of the Clinical Cardiology Committee of the German Society of Cardiology-Cardiovascular Research 1995] Gleichmann U, et al. **Z Kardiol** 1996 Dec;85(12):973–5 **(Ger)**

CARDIOMYOPATHIES see **MYOCARDIAL DISEASES**

CARDIOMYOPATHY, ALCOHOLIC

[Alcoholic cardiomyopathy] Izumi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):15–21 (18 ref.) **(Jpn)**

[Alcoholism] Nakano T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):395–7 (25 ref.) **(Jpn)**

BLOOD

[The fibrinolytic system in patients with dilated myocardiopathy] Fernández P, et al. **Sangre (Barc)** 1996 Oct;41(5):351–5 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

The relationship between drinking and heart disease morbidity in the United States: results from the National Health Interview Survey. Hanna EZ, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):111–8

ETIOLOGY

The effects of alcohol on the heart. Patel VB, et al. **Adverse Drug React Toxicol Rev** 1997 Mar;16(1):15–43 (155 ref.)

Alcohol and the heart [editorial] Maisch B. **Herz** 1996 Aug; 21(4):207–12 (25 ref.) **(Eng, Ger)**

[Alcohol—protection or risk for the heart?] Wasielewski S. **Med Monatsschr Pharm** 1997 Mar;20(3):74–6 (6 ref.) **(Ger)**

PATHOLOGY

Alcoholic cardiomyopathy: clinical and experimental pathological changes. Preedy VR, et al. **Herz** 1996 Aug; 21(4):241–7 (46 ref.)

Assessment of myocardial vasculature in chronic alcoholics without established cardiomyopathy. Ahmed AN, et al. **Int J Legal Med** 1996;109(4):167–72

[Electron microscopic study of the nervous apparatus of the sinoatrial region of the human heart in alcoholic cardiomyopathy] Pavlovich ER. **Arkh Patol** 1996 Sep–Oct; 58(5):23–8 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Chronic alcohol consumption causes accelerated myocardial preconditioning to ischemia-reperfusion injury. McDonough KH. **Alcohol Clin Exp Res** 1997 Aug; 21(5):869–73

Effect of chronic ethanol exposure on myocardial phosphoinositide turnover. Piano MR, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):721–7

Influence of nicotine on myocardial stiffness and fibrosis during chronic ethanol use. Rajiyah G, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):985–9

Comparison of alcoholic cardiomyopathy in women versus men. Fernández-Solà J, et al. **Am J Cardiol** 1997 Aug 15; 80(4):481–5

Long-term prognosis in patients with alcoholic cardiomyopathy and severe heart failure after total abstinence. Guillo P, et al. **Am J Cardiol** 1997 May 1; 79(9):1276–8

Prediction of recovery after abstinence in alcoholic cardiomyopathy: role of hemodynamic and morphometric parameters. La Vecchia LL, et al. **Clin Cardiol** 1996 Jan; 19(1):45–50

Changes in cardiac signal transduction systems in chronic ethanol treatment preceding the development of alcoholic cardiomyopathy. Strasser RH, et al. **Herz** 1996 Aug; 21(4):232–40

[Alcohol and myocarditis] Wilke A, et al. **Herz** 1996 Aug; 21(4):248–57 (70 ref.) (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Spectrum of alcohol-induced myocardial damage detected by indium-111-labeled monoclonal antimyosin antibodies. Ballester M, et al. **J Am Coll Cardiol** 1997 Jan;29(1):160–7

CARDIOMYOPATHY, CHAGAS see **CHAGAS CARDIOMYOPATHY**

CARDIOMYOPATHY, CONGESTIVE

A current appreciation of cardiomyopathies. Goodwin JF. **Acta Cardiol** 1996;51(3):189–202 (61 ref.)

Autoimmunity in dilated cardiomyopathy and the major histocompatibility complex. Limas CJ. **Int J Cardiol** 1996 May;54(2):113–6 (29 ref.)

Beta 1-adrenoceptor autoimmunity in cardiomyopathy. Magnusson Y, et al. **Int J Cardiol** 1996 May;54(2):137–41 (23 ref.)

Characteristic distribution of circulating autoantibodies against G-protein coupled cardiovascular receptors in patients with idiopathic dilated and hypertrophic cardiomyopathy. Matsui S, et al. **Int J Cardiol** 1996 May; 54(2):143–7 (28 ref.)

The role of sensitized T-cells in myocarditis and dilated cardiomyopathy. Schwimmbeck PL, et al. **Int J Cardiol** 1996 May;54(2):117–25 (27 ref.)

Dilated cardiomyopathy in turkeys: an animal model for the study of human heart failure. Genao A, et al. **Lab Anim Sci** 1996 Aug;46(4):399–404

Mitochondrial cardiomyopathy: molecular and biochemical analysis. Marin-Garcia J, et al. **Pediatr Cardiol** 1997 Jul–Aug;18(4):251–60 (84 ref.)

[Dilated cardiomyopathy in children] Kurabayashi M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):111–4 (20 ref.) **(Jpn)**

[Dilated cardiomyopathy (idiopathic dilated cardiomyopathy)] Takahashi N, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):41–4 (6 ref.) **(Jpn)**

[Myasthenic cardiomyopathy] Namakanov BA, et al. **Klin Med (Mosk)** 1997;75(8):16–8 (43 ref.) **(Rus)**

[Peridural anesthesia for subcostal cholecystectomy in patients with dilated cardiomyopathy. Apropos of 2 cases] Ornaque I, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul; 43(6):216–8 (Eng. Abstr.) **(Spa)**

BLOOD

Chronic chagasic cardiopathy with parasitemic state (preliminary report). Monteón Padilla VM, et al. **Arch Med Res** 1996 Autumn;27(3):335–7

Effect of protection and repair of injury of mitochondrial membrane-phospholipid on prognosis in patients with dilated cardiomyopathy. Ma A, et al. **Blood Press Suppl** 1996;3:53–5

Creatine kinase isoforms as circulating markers of

deterioration in idiopathic dilated cardiomyopathy. Hossein-Nia M, et al. **Clin Cardiol** 1997 Jan;20(1):55-60

Analytical performance and clinical usefulness of a commercially available IRMA kit for measuring atrial natriuretic peptide in patients with heart failure. Clerico A, et al. **Clin Chem** 1996 Oct;42(10):1627-33

Effects of adrenaline infusion on plasma lipids and noradrenaline levels in rabbits with adriamycin-induced cardiomyopathy. Minatoguchi S, et al. **Clin Exp Pharmacol Physiol** 1997 Jul;24(7):477-80

[The fibrinolytic system in patients with dilated myocardiopathy] Fernández P, et al. **Sangre (Barc)** 1996 Oct;41(5):351-5 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Comparison of alcoholic cardiomyopathy in women versus men. Fernández-Solà J, et al. **Am J Cardiol** 1997 Aug 15; 80(4):481-5

Early identification of anthracycline cardiomyopathy: possibilities and implications. Bu'Lock FA, et al. **Arch Dis Child** 1996 Nov;75(5):416-22

Reversible dilated cardiomyopathy following treatment of atopic eczema with Chinese herbal medicine. Ferguson JE, et al. **Br J Dermatol** 1997 Apr;136(4):592-3

Anabolic steroid use as the possible precipitant of dilated cardiomyopathy. Ferrera PC, et al. **Cardiology** 1997 Mar-Apr;88(2):218-20

[Cardiomyopathy induced by catecholamines in neuroblastoma] Joseph T, et al. **Arch Pediatr** 1997 Jan; 4(1):32-5 (Eng. Abstr.) **(Fre)**

[The role of xenobiotics in the development of dilated cardiomyopathy] Zerbino DD, et al. **Lik Sprava** 1996 Jul-Sep;(7-9):3-7 **(Ukr)**

CLASSIFICATION

Amlodipine in chronic heart failure [letter; comment] Poole-Wilson PA. **N Engl J Med** 1997 Apr 3;336(14):1023; discussion 1024. Comment on: N Engl J Med 1996 Oct 10;335(15):1107-14.

[Etiopathogenesis and classification of dilated cardiomyopathy] Muñoz Aguilera R, et al. **Rev Esp Cardiol** 1996 Oct;49(10):759-66 (110 ref.) (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Case presentations and discussion. Heart disease. **Am J Cardiol** 1997 Mar 20;79(6A):20-6

Improvement following correction of secondary mitral regurgitation in end-stage cardiomyopathy with mitral annuloplasty. Bach DS, et al. **Am J Cardiol** 1996 Oct 15; 78(8):966-9

Comparison of peak exercise oxygen uptake in men versus women in chronic heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Daida H, et al. **Am J Cardiol** 1997 Jul 1;80(1):85-8

The acute hemodynamic effects of right ventricular septal pacing in patients with congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Gold MR, et al. **Am J Cardiol** 1997 Mar 1;79(5):679-81

Effect of reduced muscle bulk on the ventilatory response to exercise in chronic congestive heart failure secondary to idiopathic dilated and ischemic cardiomyopathy. Harrington D, et al. **Am J Cardiol** 1997 Jul 1;80(1):90-3

Familial dilated cardiomyopathy and spontaneous ventricular arrhythmias. Jordaens L, et al. **Am J Cardiol** 1996 Sep 12; 78(5A):102-4

Depressed heart rate variability as an independent predictor of death in chronic congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Ponikowski P, et al. **Am J Cardiol** 1997 Jun 15;79(12):1645-50

Myocardial involvement is very frequent among patients affected with subclinical Becker's muscular dystrophy. Melacini P, et al. **Circulation** 1996 Dec 15;94(12):3168-75

Dilated cardiomyopathy and thrombo-embolism. Günthard J, et al. **Eur J Pediatr** 1997 Jan;156(1):3-6

Rupture of posteromedial papillary muscle as a mechanism of death in dilated cardiomyopathy. Aiello VD, et al. **Int J Cardiol** 1996 Apr 19;54(1):73-5

Non-invasive prognostic factors in chronic heart failure. One-year survival of 300 patients with a diagnosis of chronic heart failure due to ischemic heart disease or dilated cardiomyopathy. Spinar J, et al. **Int J Cardiol** 1996 Oct 25;56(3):283-8

Mild mitral regurgitation reduces exercise capacity in patients with idiopathic dilated cardiomyopathy. Tada H, et al. **Int J Cardiol** 1997 Jan 3;58(1):41-5

Dilated cardiomyopathy in Noonan's syndrome. Yu CM, et al. **Int J Cardiol** 1996 Sep;56(1):83-5

Sarcoplasmic reticulum Ca2+ATPase and phospholamban mRNA and protein levels in end-stage heart failure due to ischemic or dilated cardiomyopathy. Flesch M, et al. **J Mol Med** 1996 Jun;74(6):321-32

Multiple episodes of thrombosis with biventricular support devices with inadequate anticoagulation and evidence of accelerated intravascular coagulation. Despotis GJ, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):419-22

Atrial fibrillation and dilated cardiomyopathy [letter] Cheng TO. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1892-3

Clinical significance of increased OT dispersion in the 12-lead standard ECG for arrhythmia risk prediction in dilated cardiomyopathy. Grimm W, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1886-9

Value of time- and frequency-domain analysis of signal-averaged electrocardiography for arrhythmia risk prediction in idiopathic dilated cardiomyopathy. Grimm W, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1923-7

Heart rate variability and major arrhythmic events in patients with idiopathic dilated cardiomyopathy. Hoffmann J, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1841-4

Circadian modulation of ventricular tachycardia cycle length variability in ICD patients with dilated cardiomyopathy. Manolis AG, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 2):203-7

Atrial fibrillation and dilated cardiomyopathy: therapeutic strategies when sinus rhythm cannot be maintained. Saxon LA. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):720-5 (58 ref.)

[Clinical effects of bisoprolol in congestive heart failure due to dilated cardiomyopathy] Li Z, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):683-6 (Eng. Abstr.) **(Chi)**

[Cardio-thyrotoxicosis with arrhythmia disclosed by an embolic cerebrovascular accident] Caroff P, et al. **Ann Fr Anesth Reanim** 1996;15(2):196-8 (Eng. Abstr.) **(Fre)**

[Left ventricular diastolic dysfunction in cardiomyopathies] Bareiss P, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:25-31 (Eng. Abstr.) **(Fre)**

[Combined heart-kidney transplantation in pediatric age] Caione P, et al. **Minerva Pediatr** 1996 Oct;48(10):451-5 (21 ref.) (Eng. Abstr.) **(Ita)**

[Anesthetic management of 6 cases with dilated cardiomyopathy for non-cardiac surgery] Hase K, et al. **Masui** 1996 Jun;45(6):741-5 (Eng. Abstr.) **(Jpn)**

[Anesthetic management of a patient with dilated cardiomyopathy] Kadoi Y, et al. **Masui** 1996 Aug; 45(8):1002-4 (Eng. Abstr.) **(Jpn)**

[Acute brain expansion during emergency neck clipping surgery for cerebral aneurysms in a patient with dilated cardiomyopathy] Nakao M, et al. **Masui** 1996 Jun; 45(6):725-30 (Eng. Abstr.) **(Jpn)**

[Underlaying disease and etiology of heart failure] Nakano T, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10; 83(1):27-30 (3 ref.) **(Jpn)**

[Transient achromatopsia caused by cardioembolic brain ischemia] Hayakawa M, et al. **Rinsho Shinkeigaku** 1995 Oct; 35(10):1142-6 (Eng. Abstr.) **(Jpn)**

[Pathogenesis and diagnosis of macrofocal myocardial lesions in dilated cardiomyopathy] Gurevich MA, et al. **Klin Med (Mosk)** 1996;74(7):9-11 (26 ref.) **(Rus)**

[Progressive dyspnea in a patient with a preceding carcinoma of the breast] Guedea Martín A, et al. **Rev Clin Esp** 1997 May;197(5):371-2 **(Spa)**

[Reversible dilated cardiomyopathy and hyperthyroidism] Rodríguez Blanco VM, et al. **Rev Esp Cardiol** 1996 Oct; 49(10):770-2 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Usefulness of signal-averaged electrocardiography in evaluation of idiopathic-dilated cardiomyopathy in families. Yi G, et al. **Am J Cardiol** 1997 May 1;79(9):1203-7

Peripartum cardiomyopathy. Ladwig P, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):156-60

Comparison of time domain and spectral turbulence analysis of the signal-averaged electrocardiogram for the prediction of prognosis in idiopathic dilated cardiomyopathy. Yi G, et al. **Clin Cardiol** 1996 Oct;19(10):800-8

Stress echocardiography beyond coronary artery disease. Schwammenthal E, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D130-7 (62 ref.)

Immunocytochemical localization of muscarinic receptors as an autoantigen in heart tissue [published erratum appears in Int J Cardiol 1996 Sep;56(1):103] Schulze W, et al. **Int J Cardiol** 1996 May;54(2):177-82 (39 ref.)

Dicrotism: examples and review of the dicrotic pulse. Talley JD. **J Ark Med Soc** 1996 Mar;92(10):507-8

Determinants of prognosis in nonischemic dilated cardiomyopathy. Grzybowski J, et al. **J Card Fail** 1996 Jun;2(2):77-85

Left ventricular hypertrophy: relationship of echocardiographic and electrocardiographic findings in idiopathic dilated cardiomyopathy. Kiatchoosakun S, et al. **J Med Assoc Thai** 1996 Feb;79(2):103-7

Use of serum creatine kinase MM isoforms for predicting the progression of left ventricular dilation in patients with hypertrophic cardiomyopathy. Hina K, et al. **Jpn Circ J** 1997 Apr;61(4):315-22

A 6-month-old girl with cardiomyopathy who nearly died. Di Rocco M, et al. **Lancet** 1997 Mar 1;349(9052):616

Wegener's granulomatosis presenting as dilated cardiomyopathy. Day JD, et al. **West J Med** 1996 Jul-Aug; 165(1-2):64-6

Real-time determination of left ventricular ejection fraction by automatic boundary detection in patients with dilated cardiomyopathy: a comparison with radionuclide ventriculography. Ha JW, et al. **Yonsei Med J** 1996 Dec; 37(6):385-91

[Endomyocardial biopsy--helpful in differential diagnosis between myocarditis and dilated cardiomyopathy. A case report] Lins M, et al. **Z Kardiol** 1997 Apr;86(4):292-7 (Eng. Abstr.) **(Ger)**

[Rapid progression of hypertrophic cardiomyopathy into a dilated form--unusual course in a young patient. A case report] Riedel J, et al. **Z Kardiol** 1997 Jun;86(6):427-32 (Eng. Abstr.) **(Ger)**

[Uremic cardiomyopathy] Shigematsu Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):189-92 (12 ref.) **(Jpn)**

[Pathogenesis and diagnosis of macrofocal myocardial lesions in dilated cardiomyopathy] Gurevich MA, et al. **Klin Med (Mosk)** 1996;74(7):9-11 (26 ref.) **(Rus)**

[Myocardiopathies (XIII). Markers of clinical course in patients with dilated myocardiopathy] Anguita M, et al. **Rev Esp Cardiol** 1996 Sep;49(9):682-92 (62 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Iodine-123 metaiodobenzylguanidine myocardial scintigraphy for prediction of response to beta-blocker therapy in patients with dilated cardiomyopathy. Suwa M, et al. **Am Heart J** 1997 Mar;133(3):353-8

Effects of carvedilol on systolic and diastolic left ventricular performance in idiopathic dilated cardiomyopathy or ischemic cardiomyopathy [letter; comment] Lee YC. **Am J Cardiol** 1997 Apr 1;79(7):1001. Comment on: Am J Cardiol 1996 Oct 1;78(7):779-84.

Effects of carvedilol on systolic and diastolic left ventricular performance in idiopathic dilated cardiomyopathy or ischemic cardiomyopathy [see comments] Quaife RA, et al. **Am J Cardiol** 1996 Oct 1;78(7):779-84. Comment in: Am J Cardiol 1997 Apr 1;79(7):1001.

Medium-term effectiveness of L-thyroxine treatment in idiopathic dilated cardiomyopathy [see comments] Moruzzi P, et al. **Am J Med** 1996 Nov;101(5):461-7. Comment in: Am J Med 1996 Nov;101(5):459-60.

Increased ventricular contractility is not sufficient for effective positive inotropic intervention. Binkley PF, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1635-42

Reversing idiopathic dilated cardiomyopathy with growth hormone: is this possible? [letter] de Luis Román D, et al. **Ann Intern Med** 1997 May 15;126(10):834

Second- and third-generation beta-blocking drugs in chronic heart failure. Bristow MR, et al. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:291-6

Reversal of Borrelia burgdorferi associated dilated cardiomyopathy by antibiotic treatment? Gasser R, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):351-60

Quality of life on treatment with metoprolol in dilated cardiomyopathy: results from the MDC trial. Metoprolol in Dilated Cardiomyopathy trial. Wiklund I, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):361-8

Comparative effects of dobutamine and amrinone on coronary blood flow in patients with idiopathic dilated cardiomyopathy [see comments] Takeuchi M, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):157-63. Comment in: Cathet Cardiovasc Diagn 1997 Jun;41(2):164-5.

Diltiazem improves cardiac function and exercise capacity in patients with idiopathic dilated cardiomyopathy. Results of the Diltiazem in Dilated Cardiomyopathy Trial. Figulla HR, et al. **Circulation** 1996 Aug 1;94(3):346-52

More favourable haemodynamic effects from metoprolol than from captopril in patients with dilated cardiomyopathy. Jansson K, et al. **Eur Heart J** 1997 Jul;18(7):1115-21

Use of iodine-123 metaiodobenzylguanidine myocardial imaging to predict the effectiveness of beta-blocker therapy in patients with dilated cardiomyopathy. Fukuoka S, et al. **Eur J Nucl Med** 1997 May;24(5):523-9

Therapeutic effect of co-enzyme Q10 on idiopathic dilated cardiomyopathy: assessment by iodine-123 labelled 15-(p-iodophenyl)-3(R,S)-methylpentadecanoic acid myocardial single-photon emission tomography. Kim Y, et al. **Eur J Nucl Med** 1997 Jun;24(6):629-34

Positive action of propionyl-L-carnitine on mechanical performance of papillary muscle from Syrian hamsters with hereditary dilated cardiomyopathy. Maresca P, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):303-7

Intractable recurrent ventricular tachycardia in dilated cardiomyopathy controlled by a vasodilating beta blocker. Wright DJ, et al. **Heart** 1997 Jun;77(6):581-2

Metoprolol in dilated cardiomyopathy: is it possible to identify factors predictive of improvement? The Heart Muscle Disease Study Group. DiLenarda A, et al. **J Card Fail** 1996 Jun;2(2):87-102

Hemodynamic predictors of early intolerance and long-term effects of propranolol in dilated cardiomyopathy. Talwar KK, et al. **J Card Fail** 1996 Dec;2(4):273-7

Beta-blocker use in systolic heart failure and dilated cardiomyopathy. Hash TW 2nd, et al. **J Clin Pharmacol** 1997 Jan;37(1):7-19 (73 ref.)

Comparison of the therapeutic effects of the beta-blocking agent bisoprolol and the calcium-blocking agent diltiazem in patients with heart failure due to dilated cardiomyopathy. Suwa M, et al. **Jpn Circ J** 1996 Oct; 60(10):767-73

Effect of a new beta-blocker, nipradilol, on cardiac function and neurohumoral factors in idiopathic dilated cardiomyopathy. Yoshikawa T, et al. **Jpn Circ J** 1996 May; 60(5):285-92

Recovery of iodine-123 metaiodobenzylguanidine uptake associated with left ventricular functional recovery in a patient with dilated cardiomyopathy. Endomyocardial histological findings before and after the improvement of uptake. Ueda T, et al. **Jpn Heart J** 1997 Jan;38(1):145-50

A 6-month-old girl with cardiomyopathy who nearly died.

Di Rocco M, et al. **Lancet** 1997 Mar 1;349(9052):616

[Angiotensin-converting enzyme inhibitor in the treatment of epirubicin-induced dilated cardiomyopathy] Jensen BV, et al. **Ugeskr Laeger** 1997 Mar 24;159(13):1945-9 (Eng. Abstr.) **(Dan)**

[Sarcoidosis symptomatic cardiomyopathy: report of 10 cases] Godeau P, et al. **Bull Acad Natl Med** 1996 Nov; 180(8):2005-15; discussion 2015-8 (Eng. Abstr.) **(Fre)**

[Clinical course, prognosis in patients treated for dilated cardiomyopathy] Cserhalmi L, et al. **Orv Hetil** 1996 Aug 18;137(33):1799-803 (23 ref.) (Eng. Abstr.) **(Hun)**

[The effects of mid- and long-term administration (3-4 years) of carvedilol in patients with idiopathic dilated cardiomyopathy] Metra M, et al. **Cardiologia** 1997 May; 42(5):503-12 (Eng. Abstr.) **(Ita)**

[Therapeutic effects of coenzyme Q10 on dilated cardiomyopathy: assessment by 123I-BMIPP myocardial single photon emission computed tomography (SPECT): a multicenter trial in Osaka University Medical School Group] Nishimura T, et al. **Kaku Igaku** 1996 Jan; 33(1):27-32 (Eng. Abstr.) **(Jpn)**

[Epidural anesthesia for herniorrhaphy in a patient with severe dilated cardiomyopathy (DCM) under pimobendan control] Shiraishi M, et al. **Masui** 1997 Jan;46(1):114-8 (Eng. Abstr.) **(Jpn)**

[Case of dilated cardiomyopathy with marked improvement of the cardiac function with beta block treatment and exacerbation with the interruption of the treatment] Shimizu K, et al. **Nippon Naika Gakkai Zasshi** 1997 May 10;86(5):840-2 **(Jpn)**

[Peculiarities of cardiac failure treatment in diffuse myocarditis and dilated cardiomyopathy] Gurevich MA, et al. **Klin Med (Mosk)** 1997;75(1):48-50 (0 ref.) **(Rus)**

ENZYMOLOGY

Carnitine palmitoyltransferase in patients with cardiac ischemia due to atherosclerotic coronary artery disease and in patients with idiopathic dilated cardiomyopathy. Maurer I, et al. **Cardiology** 1997 May-Jun;88(3):258-63

Expression of adenylyl cyclase and G-protein beta subunit in end-stage human heart failure. Holmer SR, et al. **J Card Fail** 1996 Dec;2(4):279-83

Matrix metalloproteinase activity expression in infarcted, noninfarcted and dilated cardiomyopathic human hearts. Tyagi SC, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):13-21

EPIDEMIOLOGY

Epidemiology of dilated cardiomyopathy: a still undetermined entity [editorial; comment] Tavazzi L. **Eur Heart J** 1997 Jan;18(1):4-6. Comment on: Eur Heart J 1997 Jan;18( ):117-23.

ETHNOLOGY

What explains black-white differences in survival in idiopathic dilated cardiomyopathy? The Washington, DC, Dilated Cardiomyopathy Study. Coughlin SS, et al. **J Natl Med Assoc** 1997 Apr;89(4):277-82

ETIOLOGY

Myocarditis--cardiomyopathy. Consensus Report of the German Association for Internal Medicine, presented at the 100th annual meeting, Wiesbaden, 13 April 1994. Strauer BE, et al. **Acta Cardiol** 1996;51(4):347-71

Recurrent dilated cardiomyopathy reversed with conversion of atrial fibrillation. Kessler G, et al. **Am Heart J** 1997 Mar;133(3):384-6

Transition from compensatory hypertrophy to dilated failing left ventricle in Dahl-Iwai salt-sensitive rats. Kihara Y, et al. **Am J Hypertens** 1997 May;10(5 Pt 2):78S-82S

Fatal cardiomyopathy in dystrophic epidermolysis bullosa. Melville C, et al. **Br J Dermatol** 1996 Oct;135(4):603-6

Subclinical thyroid disorders in patients with dilated cardiomyopathy. Fruhwald FM, et al. **Cardiology** 1997 Mar-Apr;88(2):156-9

Early presentation of dilated cardiomyopathy as a part of seroconversion illness in human immunodeficiency virus infection. Fath-Ordoubadi F, et al. **Clin Cardiol** 1997 Aug; 20(8):738-9

Pathogenesis of dilated cardiomyopathy and heart failure: insights from cell morphology and biology. Hein S, et al. **Curr Opin Cardiol** 1996 May;11(3):293-301 (58 ref.)

Cytokines in myocarditis and cardiomyopathies. Matsumori A. **Curr Opin Cardiol** 1996 May;11(3):302-9 (72 ref.)

Obesity and idiopathic dilated cardiomyopathy. Coughlin SS, et al. **Epidemiology** 1996 Nov;7(6):629-32

A new variant of type IV glycogenosis with primary cardiac manifestation and complete branching enzyme deficiency. In vivo detection by heart muscle biopsy. Nase S, et al. **Eur Heart J** 1995 Nov;16(11):1698-704

Treatment of ventricular tachycardia-induced cardiomyopathy by transcatheter radiofrequency ablation. Kim YH, et al. **Heart** 1996 Dec;76(6):550-2

The arrhythmogenic right ventricle. Dysplasia versus cardiomyopathy. Fontaine G, et al. **Heart Vessels** 1995; 10(5):227-35 (37 ref.)

Evolution to dilated cardiomyopathy from acute eosinophilic pancarditis in Churg-Strauss syndrome. Terasaki F, et al. **Heart Vessels** 1997;12(1):43-8

Simple obesity with cardiomyopathy of obesity. Itoh H, et al. **Intern Med** 1996 Nov;35(11):876-9

Lack of T cell response to cardiac myosin and a reduced response to PPD in patients with idiopathic dilated cardiomyopathy. Bromelow KV, et al. **J Autoimmun** 1997 Apr;10(2):219-27

Newer aspects of pathogenesis of heart failure: hepatitis C virus infection in myocarditis and cardiomyopathy. Matsumori A, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S187-94 (37 ref.)

Significant reversal of thyrotoxicosis-associated dilated cardiomyopathy with induction of the euthyroid state. Wilson BE, et al. **J Endocrinol Invest** 1996 Jan;19(1):54-8

Lethal dilated cardiomyopathy due to long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency. Martins E, et al. **J Inherit Metab Dis** 1996;19(3):373-4

Is CD36 deficiency an etiology of hereditary hypertrophic cardiomyopathy? Tanaka T, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):121-7

A case of dilated cardiomyopathy with abnormal atrioventricular conduction 5 years before the appearance of left ventricular systolic dysfunction. Fukui R, et al. **Jpn Circ J** 1997 Apr;61(4):353-7

Post-partum dilated cardiomyopathy in anti-phospholipid positive woman. Airoldi ML, et al. **Lupus** 1996 Jun; 5(3):247-50 (14 ref.)

Relapsing congestive cardiomyopathy in Wegener's granulomatosis. Delevaux I, et al. **Mayo Clin Proc** 1997 Sep;72(9):848-50

Delayed dilated cardiomyopathy as a manifestation of neonatal lupus: case reports, autoantibody analysis, and management. Taylor-Albert E, et al. **Pediatrics** 1997 May; 99(5):733-5

Venous blood flow pattern suggesting tachycardia-induced 'cardiomyopathy' in the fetus. Krapp M, et al. **Ultrasound Obstet Gynecol** 1997 Jul;10(1):32-40

[Etiopathogenic, ultrasonographic and prognostic features of postpartum cardiomyopathy] Cloatre G, et al. **Med Trop (Mars)** 1996;56(4):376-80 (Eng. Abstr.) **(Fre)**

[Clinical polymorphic presentation and natural history of active myocarditis: experience in 60 cases] Sinagra G, et al. **G Ital Cardiol** 1997 Aug;27(8):758-74 (Eng. Abstr.) **(Ita)**

[Selenium deficiency associated with cardiac dysfunction in three patients with chronic respiratory failure] To Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1406-10 (Eng. Abstr.) **(Jpn)**

[Apoptosis in the process from viral myocarditis to dilated cardiomyopathy] Satoh M, et al. **Nippon Rinsho** 1996 Jul; 54(7):1982-5 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Acute cardiac failure due to dilated cardiomyopathy in systemic lupus erythematosus with antiphospholipid antibody] Takeda T, et al. **Ryumachi** 1996 Dec;36(6):856-61 (Eng. Abstr.) **(Jpn)**

[Dilated cardiomyopathy. Is its etiology still unknown?] e Mattos BP, et al. **Arq Bras Cardiol** 1995 Dec;65(6):511-6 (88 ref.) **(Por)**

[Dilated myocardiopathy in a patient with Becker muscular dystrophy (letter)] Barriales V, et al. **An Med Interna** 1995 Sep;12(9):463-4 **(Spa)**

[Etiopathogenesis and classification of dilated cardiomyopathy] Muñoz Aguilera R, et al. **Rev Esp Cardiol** 1996 Oct;49(10):759-66 (110 ref.) (Eng. Abstr.) **(Spa)**

GENETICS

Familial dilated cardiomyopathy and spontaneous ventricular arrhythmias. Jordaens L, et al. **Am J Cardiol** 1996 Sep 12; 78(5A):102-4

Genetic factors in dilated cardiomyopathy. Mestroni L, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:15-20 (343 ref.)

Genetic heterogeneity in familial dilated cardiomyopathy. Schultz KR, et al. **Biochem Mol Med** 1995 Dec;56(2):87-93

Specific mitochondrial DNA deletions in idiopathic dilated cardiomyopathy. Marin-Garcia J, et al. **Cardiovasc Res** 1996 Feb;31(2):306-13

MLP-deficient mice exhibit a disruption of cardiac cytoarchitectural organization, dilated cardiomyopathy, and heart failure. Arber S, et al. **Cell** 1997 Feb 7; 88(3):393-403

Dystrophinopathy, the expanding phenotype. Dystrophin abnormalities in X-linked dilated cardiomyopathy [editorial; comment] Beggs AH. **Circulation** 1997 May 20; 95(10):2344-7 (24 ref.). Comment on: Circulation 1997 May 20;95(10):2434-40.

Evidence for a dystrophin missense mutation as a cause of X-linked dilated cardiomyopathy [see comments] Ortiz-Lopez R, et al. **Circulation** 1997 May 20; 95(10):2434-40. Comment in: Circulation 1997 May 20;95(10):2344-7.

Increased frequency of organ-specific cardiac antibodies in healthy relatives of patients with dilated cardiomyopathy: evidence for autoimmunity in Polish families. Bilinska ZT, et al. **Clin Cardiol** 1996 Oct;19(10):794-8

Molecular genetics of dilated cardiomyopathy. Mestroni L, et al. **Curr Opin Cardiol** 1997 May;12(3):303-9 (47 ref.)

Mitochondrial cardiomyopathy [letter] Morgan KG, et al. **Eur Heart J** 1996 Oct;17(10):1600

Dilated cardiomyopathy: a genetic approach [editorial] Mestroni L. **Heart** 1997 Mar;77(3):185-8

Sex influenced familial dilated cardiomyopathy. Parale GP, et al. **J Assoc Physicians India** 1996 Mar;44(3):216-7

Differential gene expression of extracellular matrix components in dilated cardiomyopathy. Tyagi SC, et al. **J Cell Biochem** 1996 Nov 1;63(2):185-98

Gene mapping of familial autosomal dominant dilated cardiomyopathy to chromosome 10q21-23. Bowles KR, et al. **J Clin Invest** 1996 Sep 15;98(6):1355-60

Cardiac nuclear hormone receptor mRNA in heart failure in man. Sylvén C, et al. **Life Sci** 1996;59(22):1917-22

Polymorphic trinucleotide repeat in the MEF2A gene at 15q26 is not expanded in familial cardiomyopathies. Bachinski LL, et al. **Mol Cell Probes** 1997 Feb;11(1):55-8

The genetics of dilated cardiomyopathy--emerging clues to the puzzle. Leiden JM. **N Engl J Med** 1997 Oct 9; 337(15):1080-1 (3 ref.)

Familial atrial fibrillation [letter; comment] MacRae CA. **N Engl J Med** 1997 Jul 31;337(5):350. Comment on: N Engl J Med 1997 Mar 27;336(13):905-11.

Genetic predisposition to cardiomyopathies. Abdulla R. **Pediatr Cardiol** 1997 Jul-Aug;18(4):260

Transgenic Galphaq overexpression induces cardiac contractile failure in mice. D'Angelo DD, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8121-6

[Cardiomyopathies. Fundamental aspects] Schwartz K. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:21-3 **(Fre)**

[Familial dilated cardiomyopathy] Kurabayashi M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):49-52 (22 ref.) **(Jpn)**

IMMUNOLOGY

How far have we come on the way toward understanding the role of autoimmunity in the development of idiopathic dilated cardiomyopathy? [editorial] Fu ML, et al. **Blood Press Suppl** 1996;3:5-7 (26 ref.)

Activation of cyclic AMP-dependent protein kinase in cardiomyocytes by anti-beta 1-adrenoceptor autoantibodies from patients with idiopathic dilated cardiomyopathy. Krause EG, et al. **Blood Press Suppl** 1996; 3:37-40

Autoantibodies against ADP/ATP carrier from patients with dilated cardiomyopathy increase activity of voltage-dependent Ca channels in isolated cardiac myocytes. Liao YH, et al. **Blood Press Suppl** 1996;3:41-4

Immunogenetic risk factors of dilated cardiomyopathy. Popovici M, et al. **Blood Press Suppl** 1996;3:49-52

Study of autoantibodies against the adenine nucleotide translocator in idiopathic dilated cardiomyopathy. Zhang WG, et al. **Blood Press Suppl** 1996;3:45-8

Cardiac autoantibodies in dilated cardiomyopathy: a pathogenetic role? [editorial; comment] Limas CJ. **Circulation** 1997 Apr 15;95(8):1979-80. Comment on: Circulation 1997 Apr 15;95(8):1994-7.

Increased frequency of organ-specific cardiac antibodies in healthy relatives of patients with dilated cardiomyopathy: evidence for autoimmunity in Polish families. Bilinska ZT, et al. **Clin Cardiol** 1996 Oct;19(10):794-8

Autoimmunity in myocarditis and dilated cardiomyopathy: cardiac autoantibody frequency and clinical correlates in a patient series from Italy. Caforio AL, et al. **G Ital Cardiol** 1997 Feb;27(2):106-12

Cardiac autoantibodies in dilated cardiomyopathy become undetectable with disease progression. Caforio AL, et al. **Heart** 1997 Jan;77(1):62-7

Idiopathic dilated cardiomyopathy: familial prevalence and HLA distribution. McKenna CJ, et al. **Heart** 1997 Jun; 77(6):549-52

HLA antigens in an Omani population with dilated cardiomyopathy. Agarwal AK, et al. **Int J Cardiol** 1996 Jul 5;55(1):29-32

Evidence for autoimmunity to myosin and other heart-specific autoantigens in patients with dilated cardiomyopathy and their relatives. Caforio AL, et al. **Int J Cardiol** 1996 May;54(2):157-63 (51 ref.)

Anti-M2 muscarinic receptor autoantibodies and idiopathic dilated cardiomyopathy. Fu ML. **Int J Cardiol** 1996 May; 54(2):127-35 (57 ref.)

Functional analysis of autoantibodies against ADP/ATP carrier from dilated cardiomyopathy. Liao YH. **Int J Cardiol** 1996 May;54(2):165-9 (43 ref.)

Cell-mediated cytotoxicity in hearts with dilated cardiomyopathy: correlation with interstitial fibrosis and foci of activated T lymphocytes. Badorff C, et al. **J Am Coll Cardiol** 1997 Feb;29(2):429-34

Lack of T cell response to cardiac myosin and a reduced response to PPD in patients with idiopathic dilated cardiomyopathy. Bromelow KV, et al. **J Autoimmun** 1997 Apr;10(2):219-27

Human leukocyte antigen class II associations in patients with idiopathic dilated cardiomyopathy. Myocarditis Treatment Trial Investigators. Lozano MD, et al. **J Card Fail** 1997 Jun;3(2):97-103

Characterization of anti-heart M2 muscarinic receptor antibodies--a combined clinical and experimental study. Fu ML. **Mol Cell Biochem** 1996 Oct-Nov;163-164:343-7 (33 ref.)

METABOLISM

Oxygen transport to muscle during exercise in chronic congestive heart failure secondary to idiopathic dilated cardiomyopathy. Agostoni P, et al. **Am J Cardiol** 1997 Apr 15;79(8):1120-4

Angiotensin receptor type 1 mRNA in human right

ventricular endomyocardial biopsies: downregulation in heart failure. Regitz-Zagrosek V, et al. **Cardiovasc Res** 1997 Jul;35(1):99-105

Reactivity to endothelium-dependent and -independent vasoactive substances is maintained in coronary resistance vessels of the failing hamster heart. Véronneau M, et al. **Cardiovasc Res** 1997 Mar;33(3):623-30

Selective downregulation of the angiotensin II AT1-receptor subtype in failing human ventricular myocardium [see comments] Asano K, et al. **Circulation** 1997 Mar 4; 95(5):1193-200. Comment in: Circulation 1997 Mar 4;95(5):1104-7.

Different electrophoretic techniques produce conflicting data in the analysis of myocardial samples from dilated cardiomyopathy patients: protein levels do not necessarily reflect mRNA levels. dos Remedios CG, et al. **Electrophoresis** 1996 Jan;17(1):235-8

Construction of an internal standard for semiquantitative polymerase chain reaction analysis of heat shock proteins. Khan MA, et al. **Electrophoresis** 1996 Jan;17(1):40-3

Dilated cardiomyopathy-associated proteins and their presentation in a WWW-accessible two-dimensional gel protein database. Pleissner KP, et al. **Electrophoresis** 1997 May;18(5):802-8

Inducible nitric oxide synthase and tumor necrosis factor-alpha in myocardium in human dilated cardiomyopathy. Satoh M, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):716-24

Altered myocardial phenotype after mechanical support in human beings with advanced cardiomyopathy. Altemose GT, et al. **J Heart Lung Transplant** 1997 Jul;16(7):765-73

Increased expression of cardiac phosphatases in patients with end-stage heart failure. Neumann J, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):265-72

Reduction of myocardial myoglobin in bovine dilated cardiomyopathy. Weil J, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):743-51

Extracellular matrix components in dilated cardiomyopathy. Immunohistochemical study of endomyocardial biopsy specimens. Nogami K, et al. **Jpn Heart J** 1996 Jul; 37(4):483-94

MORTALITY

Prognostic value of heart rate variability in chronic congestive heart failure secondary to idiopathic or ischemic dilated cardiomyopathy. Szabó BM, et al. **Am J Cardiol** 1997 Apr 1;79(7):978-80

Left atrial size is the major predictor of cardiac death and overall clinical outcome in patients with dilated cardiomyopathy: a long-term follow-up study. Modena MG, et al. **Clin Cardiol** 1997 Jun;20(6):553-60

Additional predictive value of both left and right ventricular ejection fractions on long-term survival in idiopathic dilated cardiomyopathy. Juillière Y, et al. **Eur Heart J** 1997 Feb;18(2):276-80

Variation in mode of sudden cardiac death in patients with dilated cardiomyopathy [letter] Kelly P, et al. **Eur Heart J** 1997 May;18(5):879-80

Epidemiology of dilated cardiomyopathy. A prospective post-mortem study of 5252 necropsies. The Heart Muscle Disease Study Group [see comments] Rakar S, et al. **Eur Heart J** 1997 Jan;18(1):117-23. Comment in: Eur Heart J 1997 Jan;18(1):4-6.

Marital status as a predictor of survival in idiopathic dilated cardiomyopathy: the Washington, DC dilated cardiomyopathy study. Metayer C, et al. **Eur J Epidemiol** 1996 Dec;12(6):573-82

Chronic respiratory illness as a predictor of survival in idiopathic dilated cardiomyopathy: the Washington, DC, Dilated Cardiomyopathy Study. Martin SA Jr, et al. **J Natl Med Assoc** 1996 Nov;88(11):734-43

Do long-term results justify bridging to heart transplantation in patients with multi-organ dysfunction? Brandt M, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):277-81

[Long-term observation of patients with biopsy proven myocarditis or dilated cardiomyopathy] Olszowska M, et al. **Przegl Lek** 1996;53(10):726-30 (Eng. Abstr.) **(Pol)**

PATHOLOGY

Functional significance of myocellular hypertrophy in dilated cardiomyopathy: histomorphometric analysis on 40 endomyocardial biopsies. Gallo P, et al. **Am J Cardiovasc Pathol** 1995;5(1):11-8

A case of right ventricular dilated cardiomyopathy. Okada E, et al. **Am J Cardiovasc Pathol** 1995;5(1):1-10

Ultrastructural changes of blood capillaries in patients with microvascular angina, hypertrophic cardiomyopathy, and dilated cardiomyopathy. Suzuki H, et al. **Am J Cardiovasc Pathol** 1995;5(1):19-26

Comparative study of 201Tl-scintigraphic image and myocardial pathologic findings in patients with dilated cardiomyopathy. Li LX, et al. **Ann Nucl Med** 1996 Aug; 10(3):307-14

An analytical comparison of cobalt cardiomyopathy and idiopathic dilated cardiomyopathy. Centeno JA, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):21-30

Right and left ventricular geometry and myocyte contractile processes with dilated cardiomyopathy: myocyte growth and beta-adrenergic responsiveness. McMahon WS, et al. **Cardiovasc Res** 1996 Feb;31(2):314-23

MLP-deficient mice exhibit a disruption of cardiac cytoarchitectural organization, dilated cardiomyopathy, and heart failure. Arber S, et al. **Cell** 1997 Feb 7; 88(3):393-403

Prorenin, renin, angiotensinogen, and angiotensin-converting enzyme in normal and failing human hearts. Evidence for renin binding. Danser AH, et al. **Circulation** 1997 Jul 1; 96(1):220-6

Noninvasive measurement of shortening in the fiber and cross-fiber directions in the normal human left ventricle and in idiopathic dilated cardiomyopathy. MacGowan GA, et al. **Circulation** 1997 Jul 15;96(2):535-41

Dilated cardiomyopathy associated with deficiency of the cytoskeletal protein metavinculin. Maeda M, et al. **Circulation** 1997 Jan 7;95(1):17-20

Relation of iodine-123 metaiodobenzylguanidine myocardial scintigraphy to endomyocardial biopsy findings in patients with dilated cardiomyopathy. Murata K, et al. **Clin Cardiol** 1997 Jan;20(1):61-6

A new variant of type IV glycogenosis with primary cardiac manifestation and complete branching enzyme deficiency. In vivo detection by heart muscle biopsy. Nase S, et al. **Eur Heart J** 1995 Nov;16(11):1698-704

The myocardial fibrosis in patients with dilated cardiomyopathy. The application of image analysis in the myocardial biopsies. Agapitos E, et al. **Gen Diagn Pathol** 1996 May;141(5-6):305-11

The arrhythmogenic right ventricle. Dysplasia versus cardiomyopathy. Fontaine G, et al. **Heart Vessels** 1995; 10(5):227-35 (37 ref.)

Increased cardiac mast cell density and mediator release in patients with dilated cardiomyopathy. Patella V, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S31-2

Autosomal dominant limb girdle myopathy with ragged-red fibers and cardiomyopathy. A pedigree study by in vivo 31P-MR spectroscopy indicating a multisystem mitochondrial defect. Fabrizi GM, et al. **J Neurol Sci** 1996 Apr;137(1):20-7

Apoptosis in the heart [editorial; comment] Colucci WS. **N Engl J Med** 1996 Oct 17;335(16):1224-6. Comment on: N Engl J Med 1996 Oct 17;335(16):1182-9. Comment on: N Engl J Med 1996 Oct 17;335(16):1190-6.

[Fatal outcome of dilated cardiomyopathy with unusual histologic findings] Schmidt W, et al. **Internist (Berl)** 1996 Sep;37(9):926-30 **(Ger)**

[Myocardial pump failure in dilated cardiomyopathy and pheochromocytoma] Weickert U, et al. **Pathologe** 1997 Mar;18(2):167-71 (Eng. Abstr.) **(Ger)**

[Cardiac sarcoidosis: diagnostic validation by endomyocardial biopsy and therapy with corticosteroids] Badorff C, et al. **Z Kardiol** 1997 Jan;86(1):9-14 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Coronary vasodilatory capacity is impaired in patients with dilated cardiomyopathy. Weismüller S, et al. **Am J Card Imaging** 1996 Jul;10(3):154-62

The signal-averaged electrocardiogram is of limited value in patients with bundle branch block and dilated cardiomyopathy in predicting inducible ventricular tachycardia or death. Brembilla-Perrot B, et al. **Am J Cardiol** 1997 Jan 15;79(2):154-9

Comparison of left ventricular responses to the six-minute walk test, stair climbing, and maximal upright bicycle exercise in patients with congestive heart failure due to idiopathic dilated cardiomyopathy. Delahaye N, et al. **Am J Cardiol** 1997 Jul 1;80(1):65-70

Dispersion of ventricular activation and refractoriness in patients with idiopathic dilated cardiomyopathy. Dinerman JL, et al. **Am J Cardiol** 1997 Apr 1;79(7):970-4

Comparison of alcoholic cardiomyopathy in women versus men. Fernández-Solà J, et al. **Am J Cardiol** 1997 Aug 15; 80(4):481-5

Hemodynamic effects of a single intravenous injection of synthetic human brain natriuretic peptide in patients with heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Hobbs RE, et al. **Am J Cardiol** 1996 Oct 15;78(8):896-901

Functional significance of myocellular hypertrophy in dilated cardiomyopathy: histomorphometric analysis on 40 endomyocardial biopsies. Gallo P, et al. **Am J Cardiovasc Pathol** 1995;5(1):11-8

Predictive value of left ventricular response to exercise in patients with dilated cardiomyopathy--assessment by radionuclide ventriculography. Suzuki T, et al. **Angiology** 1997 Jun;48(6):497-502

Evaluation of the regional responsivity to ryanodine of human myocardium from patients with idiopathic dilated cardiomyopathy and secondary cardiomyopathies. Padrini R, et al. **Basic Res Cardiol** 1996 Sep-Oct;91(5):361-6

Doppler-derived diastolic indices in dilated cardiomyopathy: a hemodynamic evaluation relating pre- and afterload parameters to flow velocity. Bartel T, et al. **Can J Cardiol** 1996 Oct;12(10):953-8

Peak skeletal muscle perfusion is maintained in patients with chronic heart failure when only a small muscle mass is exercised. Magnusson G, et al. **Cardiovasc Res** 1997 Feb; 33(2):297-306

Coronary blood flow in patients with idiopathic dilated cardiomyopathy [editorial; comment] Iskandrian AE. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):164-5. Comment on: Cathet Cardiovasc Diagn 1997 Jun;41(2):157-63.

Myocardial contractile reserve as prognostic determinant in patients with idiopathic dilated cardiomyopathy without overt heart failure. Nagaoka H, et al. **Chest** 1997 Feb; 111(2):344-50

Abnormal left ventricular systolic and diastolic functional response to isometric exercise in idiopathic dilated cardiomyopathy: beneficial effect of captopril. Shen W, et al. **Chin Med Sci J** 1995 Dec;10(4):232-6

Dobutamine enhances cardiodepressant effects of receptor-mediated coronary endothelial stimulation. Bartunek J, et al. **Circulation** 1997 Jan 7;95(1):90-6

Beat-to-beat QT interval variability: novel evidence for repolarization lability in ischemic and nonischemic dilated cardiomyopathy. Berger RD, et al. **Circulation** 1997 Sep 2;96(5):1557-65

Sera from chronic chagasic patients with complex cardiac arrhythmias depress electrogenesis and conduction in isolated rabbit hearts. de Oliveira SF, et al. **Circulation** 1997 Sep 16;96(6):2031-7

Diltiazem improves cardiac function and exercise capacity in patients with idiopathic dilated cardiomyopathy. Results of the Diltiazem in Dilated Cardiomyopathy Trial. Figulla HR, et al. **Circulation** 1996 Aug 1;94(3):346-52

Effect of sympathoinhibition on exercise performance in patients with heart failure. Lang CC, et al. **Circulation** 1997 Jul 1;96(1):238-45

Abnormal awake respiratory patterns are common in chronic heart failure and may prevent evaluation of autonomic tone by measures of heart rate variability. Mortara A, et al. **Circulation** 1997 Jul 1;96(1):246-52

Attenuated cardiac sympathetic responsiveness during dynamic exercise in patients with heart failure. Rundqvist B, et al. **Circulation** 1997 Feb 18;95(4):940-5

Pathophysiologic significance of left ventricular hypertrophy in dilated cardiomyopathy. Iida K, et al. **Clin Cardiol** 1996 Sep;19(9):704-8

Electrical restitution in diseased human ventricular myocardium. Nánási PP, et al. **Clin Physiol** 1996 Jul; 16(4):339-51

Electrical restitution in ventricular myocardium. Nańaśi PP, et al. **Clin Physiol** 1996 Sep;16(5):561

Molecular Pathology of Dilated Cardiomyopathies. Pathak SK, et al. **Curr Probl Cardiol** 1996 Feb;21(2):99-144 (238 ref.)

Morphological bases for thallium-201 uptake in cardiac imaging and correlates with myocardial blood flow distribution. De Maria R, et al. **Eur Heart J** 1996 Jun; 17(6):951-61

Diastolic filling in idiopathic dilated cardiomyopathy shows a good correlation to heart rate and ejection fraction but not to blood pressure as in healthy subjects [letter; comment] Fruhwald FM, et al. **Eur Heart J** 1997 Feb; 18(2):348-9. Comment on: Eur Heart J 1996 Apr;17(4):612-8.

Additional predictive value of both left and right ventricular ejection fractions on long-term survival in idiopathic dilated cardiomyopathy. Juillière Y, et al. **Eur Heart J** 1997 Feb;18(2):276-80

Dispersion of ventricular repolarization in dilated cardiomyopathy. Zaidi M, et al. **Eur Heart J** 1997 Jul; 18(7):1129-34

Heart rate variability in idiopathic dilated cardiomyopathy: relation to disease severity and prognosis. Yi G, et al. **Heart** 1997 Feb;77(2):108-14

Clinical course of Chagas' heart disease: a comparison with dilated cardiomyopathy. Bestetti RB, et al. **Int J Cardiol** 1997 Jul 25;60(2):187-93

Persistence of restrictive left ventricular filling pattern in dilated cardiomyopathy: an ominous prognostic sign. Pinamonti B, et al. **J Am Coll Cardiol** 1997 Mar 1; 29(3):604-12

Training improves endothelium-dependent vasodilation in resistance vessels of patients with heart failure. Katz SD, et al. **J Appl Physiol** 1997 May;82(5):1488-92

Effect of dobutamine and OPC-18790 on diastolic chamber stiffness in patients with idiopathic dilated cardiomyopathy. Machii T, et al. **J Cardiovasc Pharmacol** 1997 Feb; 29(2):265-72

Does prostaglandin E1 infusion affect the left ventricular filling pattern of end-stage dilated cardiomyopathy? A combined hemodynamic-echo Doppler study. Marino P, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):188-95

Levosimendan enhances left ventricular systolic and diastolic function in conscious dogs with pacing-induced cardiomyopathy. Pagel PS, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):563-73

Mitochondrial function in children with idiopathic dilated cardiomyopathy. Marin-Garcia J, et al. **J Inherit Metab Dis** 1996;19(3):309-12

Dynamic cardiomyoplasty: its chronic and acute effects on the failing heart. Patel HJ, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):169-78

Systolic ventricular interaction in normal and diseased explanted human hearts. Slater JP, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1091-9

Right ventricular ejection fraction predicts urgent need for heart transplantation. Frey B, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):592

Real-time determination of left ventricular ejection fraction by automatic boundary detection in patients with dilated cardiomyopathy: a comparison with radionuclide ventriculography. Ha JW, et al. **Yonsei Med J** 1996 Dec; 37(6):385-91

[Comparison of myocardial velocities by tissue color Doppler imaging in normal subjects and in dilated cardiomyopathy] Derumeaux G, et al. **Arch Mal Coeur Vaiss** 1997 Jun; 90(6):773–8 (Eng. Abstr.) **(Fre)**

[The extent of diastolic dysfunction and its correlation with subjective impairment of physical capacity in dilated cardiomyopathy] Fruhwald FM, et al. **Dtsch Med Wochenschr** 1997 Jul 4;122(27):845–8 (Eng. Abstr.) **(Ger)**

[Assessment of contractile reserve in dilated cardiomyopathy] Ansalone G, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):453–6 **(Ita)**

[The problem of diastolic dysfunction in dilated cardiomyopathy and hypertrophic cardiomyopathy] Pinamonti B, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):365–70 **(Ita)**

[Estimation of right ventricular contractility by continuous-wave Doppler echocardiography] Yamada S, et al. **J Cardiol** 1996 Nov;28(5):287–93 (Eng. Abstr.) **(Jpn)**

[Anesthetic management of 6 cases with dilated cardiomyopathy for non-cardiac surgery] Hase K, et al. **Masui** 1996 Jun;45(6):741–5 (Eng. Abstr.) **(Jpn)**

[Cell-adhesion molecules involved in cardiac disease] Seko Y, et al. **Rinsho Byori** 1996 Sep;Suppl 102:198–206 (16 ref.) **(Jpn)**

[Hypertrophic cardiomyopathy with dilated cardiomyopathy-like features] Kamogawa Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):45–8 (19 ref.) **(Jpn)**

[Prognostic significance of doppler-derived and left ventricular diastolic filling variables in patients with dilated cardiomyopathy] Piszczek I, et al. **Pol Arch Med Wewn** 1996 Dec;96(6):552–60 (Eng. Abstr.) **(Pol)**

[Acute effects of ibopamine on left ventricular mechanics and contractility in patients with idiopathic dilated cardiomyopathy] Bellotti G, et al. **Arq Bras Cardiol** 1996 Aug;67(2):87–91 (Eng. Abstr.) **(Por)**

[Systolic and diastolic left ventricular function in patients with dilated cardiomyopathy] Sisakian AS. **Klin Med (Mosk)** 1997;75(1):22–3 (Eng. Abstr.) **(Rus)**

[Impact of electric cardiac stimulation on ventricular function and the natural history of patients with myocardiopathy] Tascón JC, et al. **Rev Esp Cardiol** 1996 Aug;49(8):598–608 (72 ref.) (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Reversible high rate atrial fibrillation dilated cardiomyopathy. Lazzari JO, et al. **Heart** 1997 May; 77(5):486

RADIONUCLIDE IMAGING

Comparative study of 201Tl-scintigraphic image and myocardial pathologic findings in patients with dilated cardiomyopathy. Li LX, et al. **Ann Nucl Med** 1996 Aug; 10(3):307–14

Use of iodine-123 metaiodobenzylguanidine myocardial imaging to predict the effectiveness of beta-blocker therapy in patients with dilated cardiomyopathy. Fukuoka S, et al. **Eur J Nucl Med** 1997 May;24(5):523–9

Therapeutic effect of co-enzyme Q10 on idiopathic dilated cardiomyopathy: assessment by iodine-123 labelled 15-(p-iodophenyl)-3(R,S)-methylpentadecanoic acid myocardial single-photon emission tomography. Kim Y, et al. **Eur J Nucl Med** 1997 Jun;24(6):629–34

Antimyosin antibody imaging in clinical myocarditis and cardiomyopathy: principle and application. Matsumori A, et al. **Int J Cardiol** 1996 May;54(2):183–90 (33 ref.)

Recovery of iodine-123 metaiodobenzylguanidine uptake associated with left ventricular functional recovery in a patient with dilated cardiomyopathy. Endomyocardial histological findings before and after the improvement of uptake. Ueda T, et al. **Jpn Heart J** 1997 Jan;38(1):145–50

Quantitative scintigraphic analysis of 123I-MIBG by polar map in patients with dilated cardiomyopathy. Yamazaki J, et al. **Nucl Med Commun** 1997 Mar;18(3):219–29

Role of 111 In-monoclonal antimyosin antibodies in risk stratification of patients with dilated cardiomyopathy referred for heart transplantation. Ballester M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):589–91

[Usefulness of 123I-BMIPP scanning for distinction of ischemic from nonischemic dilated cardiomyopathy] Hirose Y, et al. **Kaku Igaku** 1996 Jan;33(1):19–25 (Eng. Abstr.) **(Jpn)**

[Effect of wall thickness of left ventricle on 201Tl myocardial SPECT images: myocardial phantom study] Koto M, et al. **Kaku Igaku** 1996 Jul;33(7):771–7 (Eng. Abstr.) **(Jpn)**

[Therapeutic effects of coenzyme Q10 on dilated cardiomyopathy: assessment by 123I-BMIPP myocardial single photon emission computed tomography (SPECT): a multicenter trial in Osaka University Medical School Group] Nishimura T, et al. **Kaku Igaku** 1996 Jan; 33(1):27–32 (Eng. Abstr.) **(Jpn)**

REHABILITATION

[Physical training of patients with high grade compromise of heart pumping function] Schuler G, et al. **Z Kardiol** 1996;85 Suppl 6:253–61 (36 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Assessment of the appropriateness of the decision of heart transplantation in idiopathic-dilated cardiomyopathy. Martí V, et al. **Am J Cardiol** 1997 Sep 15;80(6):746–50

The safety of dantrolene in a patient with a severe cardiomyopathy requiring a heart transplant [letter] Koehntop DE, et al. **Anesth Analg** 1997 Jul;85(1):229–30

Left ventricular reduction surgery. **Ann Thorac Surg** 1997 Mar;63(3):909–10

Partial left ventriculectomy to treat end-stage heart disease. Batista RJ, et al. **Ann Thorac Surg** 1997 Sep;64(3):634–8

Ventriculectomy. A direct application of Laplace's law [editorial] Kass DA. **Arq Bras Cardiol** 1996 Dec;67(6):401–2

FDA approval of clinical studies on left ventricular assist system for its therapeutic application [editorial] Nosé Y. **Artif Organs** 1996 Apr;20(4):283

Reduction ventriculoplasty for the cardiomyopathic heart: a case report. Salami S, et al. **Conn Med** 1997 Mar; 61(3):131–4

Different results of cardiac transplantation in patients with ischemic and dilated cardiomyopathy. Martinelli L, et al. **Eur J Cardiothorac Surg** 1995;9(11):644–50

First successful implantation of an artificial heart in Israel: circulatory support for 90 days. Aravot DJ, et al. **Isr J Med Sci** 1996 Dec;32(12):1331–4

Partial left ventriculectomy to improve left ventricular function in end-stage heart disease [published erratum appears in J Card Surg 1997 Jan-Feb;12(1):ix] Batista RJ, et al. **J Card Surg** 1996 Mar-Apr;11(2):96–7; discussion 98

Dynamic cardiomyoplasty in the treatment of dilated cardiomyopathy: current results and perspectives. Moreira LF, et al. **J Card Surg** 1996 May-Jun;11(3):207–16 (42 ref.)

Orthotopic heart transplantation for dilated cardiomyopathy in a patient with persistent left superior vena cava and atresia of the right superior vena cava. Argüero R, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):403–5

Long-term left ventricular assist device support: a novel pump rate challenge exercise protocol to monitor native left ventricular function. Deng MC, et al. **J Heart Lung Transplant** 1997 Jun;16(6):629–35

Successful bridge to retransplantation with the wearable Novacor left ventricular assist system. Jacquet L, et al. **J Heart Lung Transplant** 1996 Jun;15(6):620–2

Heterotopic cardiac transplantation in infants and children [see comments] Khaghani A, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1042–8; discussion 1048–9. Comment in: J Thorac Cardiovasc Surg 1997 Jun;113(6):1041.

Dynamic cardiomyoplasty: its chronic and acute effects on the failing heart. Patel HJ, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):169–78

Iatrogenically induced intractable atrioventricular reentrant tachycardia after verapamil and catheter ablation in a patient with Wolff-Parkinson-White syndrome and idiopathic dilated cardiomyopathy. Nakayama Y, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1881–2

Do long-term results justify bridging to heart transplantation in patients with multi-organ dysfunction? Brandt M, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):277–81

Role of 111 In-monoclonal antimyosin antibodies in risk stratification of patients with dilated cardiomyopathy referred for heart transplantation. Ballester M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):589–91

Right ventricular ejection fraction predicts urgent need for heart transplantation. Frey B, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):592

["Bridge to transplantation" using the Pierce-Donachy pulsatile ventricular assist device (Thoratec)] Defraigne JO, et al. **Rev Med Liege** 1997 Feb;52(2):110–5 **(Fre)**

[Anesthesiology problems for implant and explant of left ventricular Novacor systems] Domenegati E, et al. **Minerva Anestesiol** 1996 Jun;62(6):219–27 (Eng. Abstr.) **(Ita)**

[New surgical procedure for patients with dilated heart and end-stage cardiac failure (Batista procedure)] Suma H, et al. **J Cardiol** 1997 Feb;29(2):117–20; discussion 120–2 (Eng. Abstr.) **(Jpn)**

[Effects of partial ventriculectomy on left ventricular mechanical properties, shape, and geometry in patients with dilated cardiomyopathy] Bellotti G, et al. **Arq Bras Cardiol** 1996 Dec;67(6):395–400 (Eng. Abstr.) **(Por)**

[Radiofrequency ablation of the sustained ventricular tachycardia in patients with structural heart disease] de Paola AA, et al. **Arq Bras Cardiol** 1996 Mar;66 Suppl 1:51–8 (52 ref.) **(Por)**

[Dilated cardiomyopathy and heart transplantation] Fabián J, et al. **Bratisl Lek Listy** 1997 May;98(5):243–7 (Eng. Abstr.) **(Slo)**

[Heart transplantation in a patient with rheumatoid arthritis] Camacho Vázquez C, et al. **Rev Esp Cardiol** 1997 May; 50(5):357–9 (Eng. Abstr.) **(Spa)**

THERAPY

Circannual variation of malignant ventricular tachyarrhythmias in patients with implantable cardioverter-defibrillators and either coronary artery disease or idiopathic dilated cardiomyopathy. Fries RP, et al. **Am J Cardiol** 1997 May 1;79(9):1194–7

Heart transplantation for end-stage heart failure caused by iron overload. Koerner MM, et al. **Br J Haematol** 1997 May;97(2):293–6

Short-term hemodynamic effects of immunoadsorption in dilated cardiomyopathy [see comments] Dörffel WV, et al. **Circulation** 1997 Apr 15;95(8):1994–7. Comment in: Circulation 1997 Apr 15;95(8):1979–80.

Intravenous immune globulin in the therapy of myocarditis and acute cardiomyopathy. McNamara DM, et al. **Circulation** 1997 Jun 3;95(11):2476–8

Weaning from mechanical cardiac support in patients with idiopathic dilated cardiomyopathy [see comments] Müller J, et al. **Circulation** 1997 Jul 15;96(2):542–9. Comment in: Circulation 1997 Jul 15;96(2):393–5.

The use of pacemakers in the treatment of cardiomyopathies. Symanski JD, et al. **Curr Probl Cardiol** 1996 Jun; 21(6):385–443 (77 ref.)

What is the role of pacing in dilated cardiomyopathy? Brecker SJ, et al. **Eur Heart J** 1996 Jun;17(6):819–24 (18 ref.)

Treatment of ventricular tachycardia-induced cardiomyopathy by transcatheter radiofrequency ablation. Kim YH, et al. **Heart** 1996 Dec;76(6):550–2

Mid-term results of heart transplantation, cardiomyoplasty, and medical treatment of refractory heart failure caused by idiopathic dilated cardiomyopathy. Bocchi EA, et al. **J Heart Lung Transplant** 1996 Jul;15(7):736–45

Transient normalization of systolic and diastolic function after support with a left ventricular assist device in a patient with dilated cardiomyopathy. Levin HR, et al. **J Heart Lung Transplant** 1996 Aug;15(8):840–2

Multiple episodes of thrombosis with biventricular support devices with inadequate anticoagulation and evidence of accelerated intravascular coagulation. Despotis GJ, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):419–22

Successful bridging to cardiac transplantation in a dystrophic infant with the use of a new paracorporeal pneumatic pump. Weyand M, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):505–7

The use of radiofrequency catheter ablation to cure dilated cardiomyopathy. Schmidt SB, et al. **W V Med J** 1997 May-Jun;93(3):130–2

[Effect of long-term oxygen therapy on sleep architecture in patients with severe dilated cardiomyopathy and Cheyne-Stokes respiration] Thalhofer S, et al. **Pneumologie** 1997 Aug;51 Suppl 3:740–3 (Eng. Abstr.) **(Ger)**

[Impact of electric cardiac stimulation on ventricular function and the natural history of patients with myocardiopathy] Tascón JC, et al. **Rev Esp Cardiol** 1996 Aug;49(8):598–608 (72 ref.) (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Changes in left ventricular inflow and pulmonary venous flow velocities during preload alteration in dilated heart. Kiyoshige K, et al. **Clin Cardiol** 1996 Jan;19(1):38–44

Regional variations of ultrasonic integrated backscatter in normal and myopathic left ventricles. A new multi-view approach. Bouki KP, et al. **Eur Heart J** 1996 Nov; 17(11):1747–55

Prognostic value of posterior wall thickness in childhood dilated cardiomyopathy and myocarditis. Carvalho JS, et al. **Eur Heart J** 1996 Aug;17(8):1233–8

Left ventricular Doppler filling pattern in dilated cardiomyopathy: relation to hemodynamics and left atrial function. Ito T, et al. **J Am Soc Echocardiogr** 1997 Jun; 10(5):518–25

Dobutamine stress ultrasonic myocardial tissue characterization in patients with dilated cardiomyopathy. Naito J, et al. **J Am Soc Echocardiogr** 1996 Jul-Aug; 9(4):470–9

[Doppler echocardiographic investigation of cardiomyopathies] Dubourg O, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:39–45 (36 ref.) (Eng. Abstr.) **(Fre)**

[Etiopathogenic, ultrasonographic and prognostic features of postpartum cardiomyopathy] Cloatre G, et al. **Med Trop (Mars)** 1996;56(4):376–80 (Eng. Abstr.) **(Fre)**

[Assessment of contractile reserve in dilated cardiomyopathy] Ansalone G, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):453–6 **(Ita)**

[Diagnostic, therapeutic and prognostic evaluation of dilated cardiomyopathy with ultrasonography] Modena MG. **Cardiologia** 1995 Oct;40(10):721–37 (63 ref.) **(Ita)**

[Estimation of right ventricular contractility by continuous-wave Doppler echocardiography] Yamada S, et al. **J Cardiol** 1996 Nov;28(5):287–93 (Eng. Abstr.) **(Jpn)**

[Prognostic significance of doppler-derived and left ventricular diastolic filling variables in patients with dilated cardiomyopathy] Piszczek I, et al. **Pol Arch Med Wewn** 1996 Dec;96(6):552–60 (Eng. Abstr.) **(Pol)**

URINE

Combined 3-methylglutaconic and 3-hydroxy-3-methylglutaric aciduria with endocardial fibroelastosis and dilatative cardiomyopathy in male and female siblings with partial deficiency of complex II/III in fibroblasts. Ruesch S, et al. **Enzyme Protein** 1996; 49(5-6):321–9

VETERINARY

Deficiencies of myocardial troponin-T and creatine kinase

MB isoenzyme in dogs with idiopathic dilated cardiomyopathy. O'Brien PJ. **Am J Vet Res** 1997 Jan; 58(1):11–6

Increased expression of promatrix metalloproteinase-9 and neutrophil elastase in canine dilated cardiomyopathy. Gilbert SJ, et al. **Cardiovasc Res** 1997 May;34(2):377–83

Dilated cardiomyopathy in the Newfoundland: a study of 37 cases (1983–1994). Tidholm A, et al. **J Am Anim Hosp Assoc** 1996 Nov–Dec;32(6):465–70

Survival and prognostic factors in 189 dogs with dilated cardiomyopathy. Tidholm A, et al. **J Am Anim Hosp Assoc** 1997 Jul–Aug;33(4):364–8

Idiopathic dilated cardiomyopathy in Dalmatians: nine cases (1990–1995). Freeman LM, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1592–6

Investigation of the selenium status of aborted calves with cardiac failure and myocardial necrosis. Orr JP, et al. **J Vet Diagn Invest** 1997 Apr;9(2):172–9

M-mode echocardiographic diagnosis of dilated cardiomyopathy in giant breed dogs. Koch J, et al. **Zentralbl Veterinarmed A** 1996 Jul;43(5):297–304

VIROLOGY

Congenital cardiomyopathy associated with human parvovirus B19 infection. Barton LL, et al. **Am Heart J** 1997 Jan;133(1):131–3

Postviral autoimmune heart disease—fact or fiction? Caforio AL, et al. **Eur Heart J** 1997 Jul;18(7):1051–5 (20 ref.)

Serological and molecular evidence of enterovirus infection in patients with end-stage dilated cardiomyopathy. Muir P, et al. **Heart** 1996 Sep;76(3):243–9

Detection of enteroviral RNA by polymerase chain reaction in endomyocardial tissue of patients with chronic cardiac diseases. Andreoletti L, et al. **J Med Virol** 1996 Jan; 48(1):53–9

CARDIOMYOPATHY, DILATED see **CARDIOMYOPATHY, CONGESTIVE**

CARDIOMYOPATHY, HYPERTROPHIC

A current appreciation of cardiomyopathies. Goodwin JF. **Acta Cardiol** 1996;51(3):189–202 (61 ref.)

Combined spinal and epidural anesthesia in a parturient with idiopathic hypertrophic subaortic stenosis. Ho KM, et al. **Anesthesiology** 1997 Jul;87(1):168–9

Characteristic distribution of circulating autoantibodies against G-protein coupled cardiovascular receptors in patients with idiopathic dilated and hypertrophic cardiomyopathy. Matsui S, et al. **Int J Cardiol** 1996 May; 54(2):143–7 (28 ref.)

Hypertrophic cardiomyopathy. Maron BJ. **Lancet** 1997 Jul 12;350(9071):127–33 (67 ref.)

Mitochondrial cardiomyopathy: molecular and biochemical analysis. Marin-Garcia J, et al. **Pediatr Cardiol** 1997 Jul–Aug;18(4):251–60 (84 ref.)

Use of epidural anesthesia in non-cardiac surgery in two cases complicated by hypertrophic cardiomyopathy. Takaya T, et al. **Tokai J Exp Clin Med** 1996 Oct;21(3):113–5

[Hypertrophic cardiomyopathy in special conditions-child, adolescent and aged] e Mattos BP, et al. **Arq Bras Cardiol** 1996 Feb;66(2):107–14 (78 ref.) **(Por)**

[Cardiomyopathy (X). Clinical approach to the patient with hypertrophic cardiomyopathy] Martín Luengo C, et al. **Rev Esp Cardiol** 1996 Jun;49(6):457–69 (80 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Plasma atrial natriuretic peptide is elevated in patients with hypertrophic cardiomyopathy. Fahy GJ, et al. **Int J Cardiol** 1996 Jul 26;55(2):149–55

Marked expression of plasma brain natriuretic peptide is a special feature of hypertrophic obstructive cardiomyopathy. Nishigaki K, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1234–42

CHEMICALLY INDUCED

Hypertrophic cardiomyopathy in preterm infants treated with dexamethasone. Miranda-Mallea J, et al. **Eur J Pediatr** 1997 May;156(5):394–6

[Transient hypertrophic cardiomyopathy due to dexamethasone therapy in a premature infant] Pokela ML. **Duodecim** 1995;111(14):1310–3 **(Fin)**

[Glucocorticoid-induced hypertrophic cardiomyopathy in premature infants: apropos of 4 cases] Boeuf B, et al. **Arch Pediatr** 1997 Feb;4(2):152–7 (18 ref.) (Eng. Abstr.) **(Fre)**

[Hypertrophic cardiomyopathy complicating a prolonged corticotherapy for hemorrhagic rectocolitis] Lhasbellaoui F, et al. **Arch Pediatr** 1997 Jan;4(1):48–51 (Eng. Abstr.) **(Fre)**

[Hypertrophic myocardiopathy during the corticotropin treatment of infantile spasms] Hortelano López M, et al. **An Esp Pediatr** 1996 May;44(5):515–6 (11 ref.) **(Spa)**

COMPLICATIONS

Obstructive hypertrophic cardiomyopathy in type III glycogen-storage disease. Cuspidi C, et al. **Acta Cardiol** 1997;52(2):117–23

A lethal pedigree of hypertrophic cardiomyopathy associated with mild left ventricular hypertrophy [letter] Watson P, et al. **Aust N Z J Med** 1996 Dec;26(6):845–6

Orthotopic liver transplantation in two patients with hypertrophic obstructive cardiomyopathy. Harley ID, et al. **Br J Anaesth** 1996 Nov;77(5):675–7

Ventricular arrhythmias in myocardial hypertrophy of various origins. Spaček R, et al. **Can J Cardiol** 1997 May; 13(5):455–8

Ischemia and atherosclerotic coronary artery disease in patients with hypertrophic cardiomyopathy: a review of incidence, pathophysiological mechanisms, clinical implications and management strategies. Harjai KJ, et al. **Coron Artery Dis** 1996 Mar;7(3):183–7 (68 ref.)

Risk for atrial fibrillation in patients with hypertrophic cardiomyopathy assessed by signal averaged P wave duration. Cecchi F, et al. **Heart** 1997 Jul;78(1):44–9

Provocation of left ventricular outflow tract obstruction in patients with hypertrophic cardiomyopathy. Comparison of orthostasis testing and nitrate application. Dittrich H, et al. **Int J Card Imaging** 1996 Dec;12(4):249–55

Myocardial stunning in hypertrophic cardiomyopathy with normal coronary arteries. Bougard M, et al. **Int J Cardiol** 1996 Sep;56(1):71–3

Normal pregnancy in a case of Noonan syndrome with hypertrophic cardiomyopathy. Yadav BS, et al. **J Assoc Physicians India** 1996 Jul;44(7):494–5

Preoperative cardiogenic shock related to dynamic obstruction of left ventricular outflow in a patient with acute aortic dissection: diagnosis by transesophageal echocardiography. Canivet JL, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):781–4

Radiofrequency catheter ablation of sustained monomorphic ventricular tachycardia in hypertrophic cardiomyopathy. Rodriguez LM, et al. **J Cardiovasc Electrophysiol** 1997 Jul; 8(7):803–6

Hypertrophic obstructive cardiomyopathy with abnormalities of the mitral valve complex. Ohkado A, et al. **J Heart Valve Dis** 1997 Jan;6(1):60–2

Incidence of ischemic strokes in hypertrophic cardiomyopathy is markedly increased if complicated by atrial fibrillation. Higashikawa M, et al. **Jpn Circ J** 1997 Aug;61(8):673–81

Quantitative evaluation of the rate of myocardial interstitial fibrosis using a personal computer. Kitamura M, et al. **Jpn Circ J** 1997 Sep;61(9):781–6

Ethanol and hypertrophic cardiomyopathy [letter; comment] Allan JJ. **N Engl J Med** 1997 Mar 20;336(12):878. Comment on: N Engl J Med 1996 Sep 26;335(13):938–41.

Sustained wide complex tachycardia resulting in myocardial injury in a patient with apical hypertrophic cardiomyopathy. Mitchell MA, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1866–9

Apical hypertrophic cardiomyopathy. Ansari A, et al. **Tex Heart Inst J** 1997;24(2):139

Right ventricular outflow obstruction with intact ventricular septum in adults. Werner AM, et al. **Tex Heart Inst J** 1997; 24(2):105–8

[Left ventricular diastolic dysfunction in cardiomyopathies] Bareiss P, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:25–31 (Eng. Abstr.) **(Fre)**

[Sudden death in hypertrophic obstructive and non-obstructive cardiomyopathy: can it be prevented?] Grobéty M, et al. **Schweiz Med Wochenschr** 1997 Apr 12; 127(15):623–30 (45 ref.) (Eng. Abstr.) **(Fre)**

[Hypertrophic obstructive cardiomyopathy with ruptured chordae tendineae: a case report] Shibata M, et al. **J Cardiol** 1996;27 Suppl 2:57–61; discussion 62–3 (Eng. Abstr.) **(Jpn)**

[Arrhythmia in patients with hypertrophic cardiomyopathy during an exercise test with 24-hour Holter monitoring] Nowalany-Kozielska E, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):82–4 (Eng. Abstr.) **(Pol)**

[Anomalous insertion of mitral papillary muscles in obstructive hypertrophic myocardiopathy. Report of 2 cases] Queiróz e Melo J, et al. **Rev Port Cardiol** 1996 Jun; 15(6):499–503, 461 (Eng. Abstr.) **(Por)**

CONGENITAL

Life-threatening cardiac involvement throughout life in a case of Costello syndrome. Fukao T, et al. **Clin Genet** 1996 Oct;50(4):244–7 (17 ref.)

[Anomalies of umbilical vein in the fetus. A case report and review of the literature] Tordjeman N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(5):495–9 (18 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Assessment of quantitative hypertrophy scores in hypertrophic cardiomyopathy: magnetic resonance imaging versus echocardiography. Posma JL, et al. **Am Heart J** 1996 Nov;132(5):1020–7

New diagnostic options in hypertrophic cardiomyopathy. Posma JL, et al. **Am Heart J** 1996 Nov;132(5):1031–41 (148 ref.)

Comparison of the functional significance of left ventricular hypertrophy in hypertrophic cardiomyopathy and glycogenosis type III. Lee PJ, et al. **Am J Cardiol** 1997 Mar 15;79(6):834–8

Apical cardiomyopathy: an important differential diagnosis in ischaemic chest pain. Seneviratne SL, et al. **Ceylon Med J** 1996 Sep;41(3):109–10

Images in cardiovascular medicine. Hypertrophic cardiomyopathy. Stress induction of subaortic stenosis and mitral regurgitation. Kilner PJ, et al. **Circulation** 1997 Feb 18;95(4):1083–4

Clinical significance of the apical late systolic ejection murmur: a new phonocardiographic sign indicating dynamic mid-left ventricular obstruction. Fukuda N, et al. **Clin Cardiol** 1996 Feb;19(2):121–7

DNA testing in familial hypertrophic cardiomyopathy: clinical and laboratory implications. Smart RV, et al. **Clin Genet** 1996 Oct;50(4):169–75

Specific heart muscle disease associated with glycogen storage disease type III: clinical similarity to the dilated phase of hypertrophic cardiomyopathy [letter] Akazawa H, et al. **Eur Heart J** 1997 Mar;18(3):532–3

Ischaemia in patients with hypertrophic cardiomyopathy—various causes and symptoms and the difficulties of ischaemia screening tests [editorial; comment] Dissmann R, et al. **Eur Heart J** 1996 Jul;17(7):982–4. Comment on: Eur Heart J 1996 Jul;17(7):1056–64.

Chest pain during daily life in patients with hypertrophic cardiomyopathy: an ambulatory electrocardiographic study [see comments] Eliott PM, et al. **Eur Heart J** 1996 Jul; 17(7):1056–64. Comment in: Eur Heart J 1996 Jul;17(7):982–4.

Stress echocardiography beyond coronary artery disease. Schwammenthal E, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D130–7 (62 ref.)

Experience from clinical genetics in hypertrophic cardiomyopathy: proposal for new diagnostic criteria in adult members of affected families. McKenna WJ, et al. **Heart** 1997 Feb;77(2):130–2

Regional left ventricular contractile dynamics in hypertrophic cardiomyopathy evaluated by magnetic resonance imaging. Sato T, et al. **Heart Vessels** 1996; 11(5):248–54

Prognostic significance of beta-myosin heavy chain mutations is reflective of their hypertrophic expressivity in patients with hypertrophic cardiomyopathy. Abchee A, et al. **J Investig Med** 1997 Apr;45(4):191–6

Magnetic resonance imaging of apical hypertrophic cardiomyopathy. Soler R, et al. **J Thorac Imaging** 1997 Jul;12(3):221–5

Use of serum creatine kinase MM isoforms for predicting the progression of left ventricular dilation in patients with hypertrophic cardiomyopathy. Hina K, et al. **Jpn Circ J** 1997 Apr;61(4):315–22

Assessment of regional early diastolic function using cine magnetic resonance imaging in patients with hypertrophic cardiomyopathy. Yamanari H, et al. **Jpn Circ J** 1996 Dec; 60(12):917–24

Stroke normalized pressure: a useful parameter for the analysis of left ventricular outflow obstruction. Hay AS, et al. **Med Eng Phys** 1996 Dec;18(8):609–14

A Fourier based algorithm for tracking SPAMM tags in gated magnetic resonance cardiac images. Zhang S, et al. **Med Phys** 1996 Aug;23(8):1359–69

Assessing a murmur, saving a life: current trends in the management of hypertrophic cardiomyopathy. Katz JR, et al. **Nurse Pract** 1996 Nov;21(11):62, 65–6, 69 passim (29 ref.)

Hypertrophic cardiomyopathy: evaluation and treatment of patients at high risk for sudden death. Fananapazir L, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):478–501 (132 ref.)

Sudden death as a presenting symptom of hypertrophic cardiomyopathy: treatment with an implantable cardioverter defibrillator. Talard P, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1264–7

[Apical hypertrophic cardiomyopathy] Trémeau G, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1283–9 (26 ref.) (Eng. Abstr.) **(Fre)**

[Rapid progression of hypertrophic cardiomyopathy into a dilated form—unusual course in a young patient. A case report] Riedel J, et al. **Z Kardiol** 1997 Jun;86(6):427–32 (Eng. Abstr.) **(Ger)**

[Reduction of the left ventricular outflow tract gradient in hypertrophic, obstructive cardiomyopathy after myocardial infarct] Weber-Albers J, et al. **Z Kardiol** 1997 Jun; 86(6):433–7 (Eng. Abstr.) **(Ger)**

[Clinical evaluation of 123I-BMIPP myocardial SPECT in patients with hypertensive heart disease and hypertrophic cardiomyopathy: comparison with the findings of 201Tl SPECT and Gd enhanced magnetic resonance imaging] Miyanaga H, et al. **Kaku Igaku** 1997 Feb;34(2):85–93 (Eng. Abstr.) **(Jpn)**

[Hypertrophic cardiomyopathy. Clinical characteristics, diagnostic methods and natural history] Arteaga E, et al. **Arq Bras Cardiol** 1996 Feb;66(2):115–7 (23 ref.) **(Por)**

[Hypertrophic cardiomyopathy: concepts and classification] Manes Albanesi F. **Arq Bras Cardiol** 1996 Feb;66(2):103–5 (21 ref.) **(Por)**

–Apical hyperthophic cardiomyopathy— Manes Albanesi F. **Arq Bras Cardiol** 1996 Feb;66(2):91–5 (66 ref.) **(Por)**

[A rare case of right-sided hypertrophic cardiomyopathy] Korovina EP, et al. **Ter Arkh** 1996;68(4):82–3 (8 ref.) **(Rus)**

[Obstructive and non-obstructive hypertrophic cardiomyopathy: clinical, electrocardiographic, and echocardiographic differences] Almenar L, et al. **Rev Esp Cardiol** 1996 Jun;49(6):423–31 (Eng. Abstr.) **(Spa)**

CARDIOMYOPATHY, HYPERTROPHIC

DRUG THERAPY

Short- and long-term effects of nisoldipine on cardiac function and exercise tolerance in patients with hypertrophic cardiomyopathy. Tokushima T, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):329-36

Class Ia antiarrhythmic drug cibenzoline: a new approach to the medical treatment of hypertrophic obstructive cardiomyopathy. Hamada M, et al. **Circulation** 1997 Sep 2;96(5):1520-4

Hypertrophic cardiomyopathy [letter] Kaltenbach M, et al. **Circulation** 1997 Sep 16;96(6):2080

Short term reduction of left ventricular mass in primary hypertrophic cardiomyopathy by octreotide injections. Günal AI, et al. **Heart** 1996 Nov;76(5):418-21

[Bradycardia after beginning therapy with metoprolol and paroxetine] König F, et al. **Psychiatr Prax** 1996 Sep; 23(5):244-5 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Intravascular haemolysis in hypertrophic cardiomyopathy [letter] Lambert M, et al. **Eur Heart J** 1996 Oct; 17(10):1601-2

Cyclic AMP-dependent phosphodiesterase isozyme-specific potentiation by protein kinase C in hypertrophic cardiomyopathic hamster hearts. Yu H, et al. **Mol Pharmacol** 1996 Sep;50(3):549-55

EPIDEMIOLOGY

HCM in the general population [letter; comment] Maron BJ, et al. **Circulation** 1996 Aug 1;94(3):588-9. Comment on: Circulation 1995 Aug 15;92(4):700-4. Comment on: Circulation 1995 Aug 15;92(4):785-9.

A regional study of presentation and outcome of hypertrophic cardiomyopathy in infants. Skinner JR, et al. **Heart** 1997 Mar;77(3):229-33

Sex differences in age at onset of symptoms in patients with hypertrophic cardiomyopathy. Dimitrow PP, et al. **J Cardiovasc Risk** 1997 Feb;4(1):33-5

ETIOLOGY

Effects of two familial hypertrophic cardiomyopathy-causing mutations on alpha-tropomyosin structure and function. Golitsina N, et al. **Biochemistry** 1997 Apr 15;36(15):4637-42

Hypertrophic subaortic stenosis and hyperparathyroidism [letter] Macieira-Coelho E, et al. **Eur Heart J** 1996 Nov; 17(11):1763-4

Is CD36 deficiency an etiology of hereditary hypertrophic cardiomyopathy? Tanaka T, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):121-7

Transient hypertrophic cardiomyopathy in neonates after acute fetal distress. Vaillant MC, et al. **Pediatr Cardiol** 1997 Jan-Feb;18(1):52-6

Arteritis and increased intracellular calcium as a possible mechanism for tacrolimus-related cardiac toxicity in a pediatric transplant recipient. Atkison PR, et al. **Transplantation** 1997 Sep 15;64(5):773-5

[Prenatal study of hypertrophic cardiomyopathy and its association with insulin levels in fetuses of diabetic mothers] Hagemann LL, et al. **Arq Bras Cardiol** 1996 Apr; 66(4):193-8 (Eng. Abstr.) **(Por)**

[Pathogenesis of hypertrophic cardiomyopathy in a fetus during insulin-dependent diabetes in a mother] Litvinova MF. **Biull Eksp Biol Med** 1996 Jun;121(6):698-701 **(Rus)**

GENETICS

Hypertrophic cardiomyopathy in Noonan syndrome. Nishikawa T, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):91-8

Noonan syndrome: a clinical description emphasizing the cardiac findings. Noonan J, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):76-83 (31 ref.)

Angiotensinogen gene polymorphism in Japanese patients with hypertrophic cardiomyopathy. Ishanov A, et al. **Am Heart J** 1997 Feb;133(2):184-9

Short-limb dwarfism and hypertrophic cardiomyopathy in a patient with paternal isodisomy 14: 45,XY,idic(14)(p11). Walter CA, et al. **Am J Med Genet** 1996 Nov 11; 65(4):259-65

A lethal pedigree of hypertrophic cardiomyopathy associated with mild left ventricular hypertrophy [letter] Watson P, et al. **Aust N Z J Med** 1996 Dec;26(6):845-6

Molecular mechanisms regulating the myofilament response to Ca2+: implications of mutations causal for familial hypertrophic cardiomyopathy. Palmiter KA, et al. **Basic Res Cardiol** 1997;92 Suppl 1:63-74 (96 ref.)

Effects of two hypertrophic cardiomyopathy mutations in alpha-tropomyosin, Asp175Asn and Glu180Gly, on Ca2+ regulation of thin filament motility. Bing W, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):760-4

Effects of two familial hypertrophic cardiomyopathy-causing mutations on alpha-tropomyosin structure and function. Golitsina N, et al. **Biochemistry** 1997 Apr 15;36(15):4637-42

HLA-DR2 antigen linkage in patients with apical hypertrophic cardiomyopathy in Japan. Kishimoto C, et al. **Cardiology** 1996 Nov-Dec;87(6):488-91

Organization and sequence of human cardiac myosin binding protein C gene (MYBPC3) and identification of mutations predicted to produce truncated proteins in familial hypertrophic cardiomyopathy [see comments] Carrier L, et al. **Circ Res** 1997 Mar;80(3):427-34. Comment in: Circ Res 1997 Mar;80(3):435-6.

Missing pieces: myosin binding protein C truncations in familial hypertrophic cardiomyopathy [editorial; comment] Frenkel PA, et al. **Circ Res** 1997 Mar;80(3):435-6. Comment on: Circ Res 1997 Mar;80(3):427-34.

Expression of a mutant (Arg92Gln) human cardiac troponin T, known to cause hypertrophic cardiomyopathy, impairs adult cardiac myocyte contractility. Marian AJ, et al. **Circ Res** 1997 Jul;81(1):76-85

Codon 102 of the cardiac troponin T gene is a putative hot spot for mutations in familial hypertrophic cardiomyopathy. Forissier JF, et al. **Circulation** 1996 Dec 15;94(12):3069-73

CFC syndrome: report of familial cases [letter] Lecora M, et al. **Clin Genet** 1996 Dec;50(6):558-9

DNA testing in familial hypertrophic cardiomyopathy: clinical and laboratory implications. Smart RV, et al. **Clin Genet** 1996 Oct;50(4):169-75

The molecular genetics of hypertrophic cardiomyopathy. Malik MS, et al. **Curr Opin Cardiol** 1997 May;12(3):295-302 (39 ref.)

An ARG403GLN beta-myosin heavy chain gene mutation identified in an Italian family with hypertrophic cardiomyopathy; description of clinical features of the family members [letter] Conte MR, et al. **Eur Heart J** 1997 Jun;18(6):1033-4

Penetrance of familial hypertrophic cardiomyopathy. Charron P, et al. **Genet Couns** 1997;8(2):107-14

The phenotype/genotype relation and the current status of genetic screening in hypertrophic cardiomyopathy, Marfan syndrome, and the long QT syndrome. Burn J, et al. **Heart** 1997 Aug;78(2):110-6 (40 ref.)

A previously undescribed de novo insertion-deletion mutation in the beta myosin heavy chain gene in a kindred with familial hypertrophic cardiomyopathy. Cuda G, et al. **Heart** 1996 Nov;76(5):451-2

Genetic factors in familial hypertrophic cardiomyopathy: does molecular cardiology offer new perspectives? [editorial] Komajda M. **Heart** 1996 Dec;76(6):465-6

Mapping the locus for familial hypertrophic cardiomyopathy to chromosome 11 in a family with a case of apical hypertrophic cardiomyopathy of the Japanese type. Ko YL, et al. **Hum Genet** 1996 Apr;97(4):457-61

An additional mitochondrial tRNA(Ile) point mutation (A-to-G at nucleotide 4295) causing hypertrophic cardiomyopathy. Merante F, et al. **Hum Mutat** 1996; 8(3):216-22

Apical hypertrophic cardiomyopathy: a study of 14 patients and their first degree relatives. Barbosa MM, et al. **Int J Cardiol** 1996 Sep;56(1):41-51

Symposium on gene abnormalities in medical diseases. 3. Molecular genetics of hypertrophic cardiomyopathy in Japan. Kimura A. **Intern Med** 1997 Feb;36(2):152-4

Clinical features of hypertrophic cardiomyopathy caused by mutation of a "hot spot" in the alpha-tropomyosin gene. Coviello DA, et al. **J Am Coll Cardiol** 1997 Mar 1; 29(3):635-40

Sudden death due to troponin T mutations. Moolman JC, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):549-55

Hypertrophic obstructive cardiomyopathy (HOCM). Caldwell CR Jr, et al. **J Ark Med Soc** 1996 May; 92(12):629-32 (10 ref.)

Opioid peptide gene expression in the primary hereditary cardiomyopathy of the Syrian hamster. I. Regulation of prodynorphin gene expression by nuclear protein kinase C. Ventura C, et al. **J Biol Chem** 1997 Mar 7; 272(10):6685-92

Opioid peptide gene expression in the primary hereditary cardiomyopathy of the Syrian hamster. II. Role of intracellular calcium loading. Ventura C, et al. **J Biol Chem** 1997 Mar 7;272(10):6693-8

Opioid peptide gene expression in the primary hereditary cardiomyopathy of the Syrian hamster. III. Autocrine stimulation of prodynorphin gene expression by dynorphin B. Ventura C, et al. **J Biol Chem** 1997 Mar 7; 272(10):6699-705

Clinical manifestations of hypertrophic cardiomyopathy with mutations in the cardiac beta-myosin heavy chain gene or cardiac troponin T gene. Koga Y, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S97-103

Molecular genetics of hypertrophic cardiomyopathy. Roberts R, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S87-95 (48 ref.)

Point mutations in human beta cardiac myosin heavy chain have differential effects on sarcomeric structure and assembly: an ATP binding site change disrupts both thick and thin filaments, whereas hypertrophic cardiomyopathy mutations display normal assembly. Becker KD, et al. **J Cell Biol** 1997 Apr 7;137(1):131-40

Electrophysiological abnormalities and arrhythmias in alpha MHC mutant familial hypertrophic cardiomyopathy mice. Berul CI, et al. **J Clin Invest** 1997 Feb 15;99(4):570-6

Characterization of mutant myosins of Dictyostelium discoideum equivalent to human familial hypertrophic cardiomyopathy mutants. Molecular force level of mutant myosins may have a prognostic implication. Fujita H, et al. **J Clin Invest** 1997 Mar 1;99(5):1010-5

Hypertrophic cardiomyopathy: a case study in converging pathways [editorial; comment] Robbins J. **J Clin Invest** 1996 Dec 1;98(11):2433-4 (9 ref.). Comment on: J Clin Invest 1996 Dec 1;98(11):2456-61.

Novel splice donor site mutation in the cardiac myosin-binding protein-C gene in familial hypertrophic cardiomyopathy. Characterization Of cardiac transcript and protein. Rottbauer W, et al. **J Clin Invest** 1997 Jul 15;100(2):475-82

Expression and functional assessment of a truncated cardiac troponin T that causes hypertrophic cardiomyopathy. Evidence for a dominant negative action [see comments] Watkins H, et al. **J Clin Invest** 1996 Dec 1;98(11):2456-61 . Comment in: J Clin Invest 1996 Dec 1;98(11):2433-4.

Identification of a novel missense mutation in the cardiac beta-myosin heavy chain gene in a Chinese patient with sporadic hypertrophic cardiomyopathy. Kuang SQ, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1879-83

Isometric tension and mutant myosin heavy chain content in single skeletal myofibers from hypertrophic cardiomyopathy patients. Malinchik S, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):667-76

Novel missense mutation in cardiac troponin T gene found in Japanese patient with hypertrophic cardiomyopathy. Nakajima-Taniguchi C, et al. **J Mol Cell Cardiol** 1997 Feb; 29(2):839-43

A novel deletion mutation in the beta-myosin heavy chain gene found in Japanese patients with hypertrophic cardiomyopathy. Nakajima-Taniguchi C, et al. **J Mol Cell Cardiol** 1995 Dec;27(12):2607-12

The influence of the angiotensin I converting enzyme genotype in familial hypertrophic cardiomyopathy varies with the disease gene mutation. Tesson F, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):831-8

The in vitro motility activity of beta-cardiac myosin depends on the nature of the beta-myosin heavy chain gene mutation in hypertrophic cardiomyopathy. Cuda G, et al. **J Muscle Res Cell Motil** 1997 Jun;18(3):275-83

A missense mutation in the beta-myosin heavy chain gene in a Japanese patient with hypertrophic cardiomyopathy. Nakajima-Taniguchi C, et al. **Jpn Circ J** 1995 Dec; 59(12):833-7

Polymorphic trinucleotide repeat in the MEF2A gene at 15q26 is not expanded in familial cardiomyopathies. Bachinski LL, et al. **Mol Cell Probes** 1997 Feb;11(1):55-8

Familial hypertrophic cardiomyopathy: diagnostic and therapeutic implications of recent genetic studies. Bachinski LL, et al. **Mol Med Today** 1996 Sep;2(9):387-93 (43 ref.)

Mutations in the cardiac troponin I gene associated with hypertrophic cardiomyopathy. Kimura A, et al. **Nat Genet** 1997 Aug;16(4):379-82

Sudden cardiac death in familial hypertrophic cardiomyopathy: are "benign" mutations really benign? Semsarian C, et al. **Pathology** 1997 Aug;29(3):305-8

Genetic predisposition to cardiomyopathies. Abdulla R. **Pediatr Cardiol** 1997 Jul-Aug;18(4):260

Two hearts beat as one. Eating disorder in a twin pair with hypertrophic cardiomyopathy. Hartman DC, et al. **Psychother Psychosom** 1997;66(4):222-6

[Genetics of hypertrophic cardiomyopathies: what are the clinical perspectives?] Komajda M. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:11-4 (Eng. Abstr.) **(Fre)**

[Cardiomyopathies. Fundamental aspects] Schwartz K. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:21-3 **(Fre)**

[Cardiomyopathies] Schwartz K. **Pathol Biol (Paris)** 1997 Mar;45(3):213-7 (34 ref.) (Eng. Abstr.) **(Fre)**

[Hypertrophic obstructive cardiomyopathy in a patient with Turner syndrome] Conte MR, et al. **Cardiologia** 1995 Dec; 40(12):947-9 (Eng. Abstr.) **(Ita)**

[Diseases in the field of internal medicine and gene abnormalities. 4. Molecular genetic analysis of hypertrophic cardiomyopathy among Japanese] Kimura A. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1508-13 (17 ref.) **(Jpn)**

[Familial hypertrophic cardiomyopathy] Anan R, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):53-6 (18 ref.) **(Jpn)**

[Molecular basis of hypertrophic cardiomyopathy] Rokicka A, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):78-81 (45 ref.) **(Pol)**

METABOLISM

Proton-decoupled myocardial 31P NMR spectroscopy reveals decreased PCr/Pi in patients with severe hypertrophic cardiomyopathy. Sieverding L, et al. **Am J Cardiol** 1997 Aug 4;80(3A):34A-40A

Overexpression of transforming growth factor-beta1 and insulin-like growth factor-I in patients with idiopathic hypertrophic cardiomyopathy. Li RK, et al. **Circulation** 1997 Aug 5;96(3):874-81

Myocardial beta adrenoceptor density in primary and secondary left ventricular hypertrophy. Choudhury L, et al. **Eur Heart J** 1996 Nov;17(11):1703-9

Abnormal skeletal muscle bioenergetics in familial hypertrophic cardiomyopathy. Thompson CH, et al. **Heart** 1997 Aug;78(2):177-81

Myocardial scintigraphic study with 123I 15-(p-iodophenyl)-3(R,S)-methylpentadecanoic acid in patients with hypertrophic cardiomyopathy. Shimizu M, et al. **Int J Cardiol** 1996 Apr 19;54(1):51-9

Point mutations in human beta cardiac myosin heavy chain have differential effects on sarcomeric structure and assembly: an ATP binding site change disrupts both thick and thin filaments, whereas hypertrophic cardiomyopathy mutations display normal assembly. Becker KD, et al. **J Cell Biol** 1997 Apr 7;137(1):131-40

Expression of calcium channel subunits in the normal and

diseased human myocardium. Haase H, et al. **J Mol Med** 1996 Feb;74(2):99–104

Myocardial blood flow and metabolism in patients with hypertrophic cardiomyopathy--a study with carbon-11 acetate and positron emission tomography. Ishiwata S, et al. **Jpn Circ J** 1997 Mar;61(3):201–10

Heterogeneity of myocardial fluoro-18 2-deoxyglucose uptake in patients with apical hypertrophic cardiomyopathy. Shiba N, et al. **Jpn Circ J** 1997 Mar; 61(3):223–30

Lack of myocardial iodine-123 15-(p-iodiphenyl)-3-R,S-methylpentadecanoic acid (BMIPP) uptake and CD36 abnormality--CD36 deficiency and hypertrophic cardiomyopathy [letter] Tanaka T, et al. **Jpn Circ J** 1997 Aug;61(8):724–5

Myocardial glucose metabolism is different between hypertrophic cardiomyopathy and hypertensive heart disease associated with asymmetrical septal hypertrophy. Shiba N, et al. **Tohoku J Exp Med** 1997 Jun;182(2):125–38

MORTALITY

Causes of sudden death in young and middle-aged competitive athletes. Virmani R, et al. **Cardiol Clin** 1997 Aug;15(3):439–66 (79 ref.)

PATHOLOGY

Apoptosis as a possible cause of wall thinning in end-stage hypertrophic cardiomyopathy. Ino T, et al. **Am J Cardiol** 1997 Apr 15;79(8):1137–41

Comparison of morphologic assessment of hypertrophic cardiomyopathy by magnetic resonance versus echocardiographic imaging. Pons-Lladó G, et al. **Am J Cardiol** 1997 Jun 15;79(12):1651–6

Ultrastructural changes of blood capillaries in patients with microvascular angina, hypertrophic cardiomyopathy, and dilated cardiomyopathy. Suzuki H, et al. **Am J Cardiovasc Pathol** 1995;5(1):19–26

Case report: lysosomal glycogen storage disease with normal acid maltase: an unusual form of hypertrophic cardiomyopathy with rapidly progressive heart failure. Tse HF, et al. **Am J Med Sci** 1996 Oct;312(4):182–6

Significance of the DNA synthesis in hypertrophic cardiomyopathies. Matturri L, et al. **Basic Res Cardiol** 1997 Apr;92(2):85–9

Altered patterns of cardiac intercellular junction distribution in hypertrophic cardiomyopathy. Sepp R, et al. **Heart** 1996 Nov;76(5):412–7

Intima-media thickness of the carotid artery in hypertensive subjects and hypertrophic cardiomyopathy patients. Ohya Y, et al. **Hypertension** 1997 Jan;29(1 Pt 2):361–5

Pathologic findings following sudden death in an infant with hypertrophic cardiomyopathy and supraventricular tachycardia. Kanter RJ, et al. **J Cardiovasc Electrophysiol** 1997 Feb;8(2):222–5

Intranuclear mitochondria in human myocardial cells. Takemura G, et al. **Pathol Res Pract** 1997;193(4):305–11

[Apical hypertrophic cardiomyopathy: morphologic characterization, functional and clinical aspects] Moro E. **G Ital Cardiol** 1997 Feb;27(2):181–9 (65 ref.) **(Ita)**

[Morphologic aspects of the left ventricular remodeling in hypertensive cardiomyopathy] Mandarim-de-Lacerda CA. **Arq Bras Cardiol** 1995 Dec;65(6):523–7 **(Por)**

PHYSIOPATHOLOGY

Heart rate variability in patients with hypertrophic cardiomyopathy: association with clinical and echocardiographic features. Bonaduce D, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):165–72

Apoptosis as a possible cause of wall thinning in end-stage hypertrophic cardiomyopathy. Ino T, et al. **Am J Cardiol** 1997 Apr 15;79(8):1137–41

Cardiac memory: a mechanical and electrical phenomenon. Alessandrini RS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1952–9

The natural history of left ventricular wall thickening in hypertrophic cardiomyopathy. Semsarian C, et al. **Aust N Z J Med** 1997 Feb;27(1):51–8

Myocardial effects of eltanolone in hamsters with hypertrophic cardiomyopathy. Ruel P, et al. **Br J Anaesth** 1996 Nov;77(5):653–7

The left ventriculographic pattern and serial electrocardiographic changes in hypertrophic cardiomyopathy patients with giant negative T waves. Hata S, et al. **Cardiology** 1996 Sep-Oct;87(5):365–73

Modification of human left ventricular relaxation by small-amplitude, phase-controlled mechanical vibration on the chest wall. Koiwa Y, et al. **Circulation** 1997 Jan 7; 95(1):156–62

Changes in phasic coronary blood flow velocity profile and relative coronary flow reserve in patients with hypertrophic obstructive cardiomyopathy. Kyriakidis MK, et al. **Circulation** 1997 Aug 5;96(3):834–41

Marked discordance between dynamic and passive diastolic pressure-volume relations in idiopathic hypertrophic cardiomyopathy [published erratum appears in Circulation 1996 Nov 15;94(10):2668] Pak PH, et al. **Circulation** 1996 Jul 1;94(1):52–60

Cardiovascular and hormonal responses to a meal in hypertrophic cardiomyopathy: a comparison of patients with and without postprandial exacerbation of symptoms. Gilligan DM, et al. **Clin Cardiol** 1996 Feb;19(2):129–35

Transesophageal pulsed Doppler echocardiographic evaluation of left atrial systolic performance in hypertrophic cardiomyopathy: combined analysis of transmitral and pulmonary venous flow velocities. Oki T, et al. **Clin Cardiol** 1997 Jan;20(1):47–54

Uniquely abnormal intracavitary flow during late systole and relaxation in hypertrophic obstructive cardiomyopathy with midventricular obstruction. Yamanari H, et al. **Clin Cardiol** 1996 Nov;19(11):913–5

Effects of permanent dual chamber pacing on myocardial perfusion in symptomatic hypertrophic cardiomyopathy. Posma JL, et al. **Heart** 1996 Oct;76(4):358–62

Regional left ventricular contractile dynamics in hypertrophic cardiomyopathy evaluated by magnetic resonance imaging. Sato T, et al. **Heart Vessels** 1996; 11(5):248–54

Hypertrophic cardiomyopathy: value of atrial programmed electrical stimulation in patients with or without syncope with special reference to the role of atrial arrhythmias. Brembilla-Perrot B, et al. **Int J Cardiol** 1997 Mar; 59(1):47–56

Left ventricular hypertrophic patterns and wall motion dynamics in hypertrophic cardiomyopathy: an electron beam computed tomographic study. Yoshida M, et al. **Intern Med** 1997 Apr;36(4):263–9

Impaired response of left ventricular relaxation to exercise-induced adrenergic stimulation in patients with hypertrophic cardiomyopathy. Izawa H, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1738–45

Noninvasive doppler echocardiographic evaluation of left ventricular filling pressures in patients with cardiomyopathies: a simultaneous Doppler echocardiographic and cardiac catheterization study. Nishimura RA, et al. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1226–33

Differences in myocardial velocity gradient measured throughout the cardiac cycle in patients with hypertrophic cardiomyopathy, athletes and patients with left ventricular hypertrophy due to hypertension. Palka P, et al. **J Am Coll Cardiol** 1997 Sep;30(3):760–8

Clinical manifestations of hypertrophic cardiomyopathy with mutations in the cardiac beta-myosin heavy chain gene or cardiac troponin T gene. Koga Y, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S97–103

Clinical significance of abnormal postexercise systolic blood pressure response in patients with hypertrophic cardiomyopathy. Nezuo S, et al. **J Cardiol** 1996 Feb; 27(2):65–71

Electrophysiological abnormalities and arrhythmias in alpha MHC mutant familial hypertrophic cardiomyopathy mice. Berul CI, et al. **J Clin Invest** 1997 Feb 15;99(4):570–6

Dispersion of ventricular repolarization in hypertrophic cardiomyopathy. Zaidi M, et al. **J Electrocardiol** 1996;29 Suppl:89–94

Aging, cardiac hypertrophy and ischemic cardiomyopathy do not affect the proportion of mononucleated and multinucleated myocytes in the human heart. Olivetti G, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1463–77

The in vitro motility activity of beta-cardiac myosin depends on the nature of the beta-myosin heavy chain gene mutation in hypertrophic cardiomyopathy. Cuda G, et al. **J Muscle Res Cell Motil** 1997 Jun;18(3):275–83

Myocardial blood flow and metabolism in patients with hypertrophic cardiomyopathy--a study with carbon-11 acetate and positron emission tomography. Ishiwata S, et al. **Jpn Circ J** 1997 Mar;61(3):201–10

Exercise-induced T-wave alternans as a marker of high risk in patients with hypertrophic cardiomyopathy. Momiyama Y, et al. **Jpn Circ J** 1997 Aug;61(8):650–6

A case of hypertrophic obstructive cardiomyopathy associated with autonomic nervous dysfunction. Shimizu M, et al. **Jpn Circ J** 1996 Jun;60(6):371–6

Concealed left ventricular hypertrophy and diastolic dysfunction in hypertrophic cardiomyopathy in the presence of acute left ventricular volume overload. A case report. Oki T, et al. **Jpn Heart J** 1997 Jan;38(1):139–44

[The problem of diastolic dysfunction in dilated cardiomyopathy and hypertrophic cardiomyopathy] Pinamonti B, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):365–70 **(Ita)**

[Apical hypertrophic cardiomyopathy: morphologic characterization, functional and clinical aspects] Moro E. **G Ital Cardiol** 1997 Feb;27(2):181–9 (65 ref.) **(Ita)**

[Secretion of atrial natriuretic peptide from the left ventricle and heart in patients with hypertrophic cardiomyopathy: relationship with hemodynamic and echocardiographic profiles] Ishii Y, et al. **J Cardiol** 1997 Jul;30(1):19–28 (Eng. Abstr.) **(Jpn)**

[Influence of atrioventricular delay on pulmonary capillary wedge pressure in two patients with hypertrophic obstructive cardiomyopathy during dual chamber pacing] Ochiai K, et al. **J Cardiol** 1997 Feb;29(2):103–9 (Eng. Abstr.) **(Jpn)**

[Regional left ventricular contraction kinetics in patients with hypertrophic cardiomyopathy: investigation by ECG-gated myocardial SPECT with 99mTc-MIBI] Narita M, et al. **Kaku Igaku** 1996 Jun;33(6):617–28 (Eng. Abstr.) **(Jpn)**

[The mechanism of giant negative T wave in electrocardiogram in patients with apical hypertrophic cardiomyopathy: evaluation with thallium-201 and iodine-123 metaiodobenzylguanidine myocardial scintigraphy] Wang Y, et al. **Kaku Igaku** 1996 Sep; 33(9):999–1004 (Eng. Abstr.) **(Jpn)**

[Evaluation of left ventricular systolic function using cine MRI--application to hypertrophic cardiomyopathy] Ishino Y, et al. **Nippon Rinsho** 1997 Jul;55(7):1805–10 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Hypertrophic cardiomyopathy with dilated cardiomyopathy-like features] Kamogawa Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):45–8 (19 ref.) **(Jpn)**

[Comparative analysis of the parameters of left ventricular systolic and diastolic functions in patients with hypertension and patients with hypertrophic cardiomyopathy] Kolodin MI, et al. **Ter Arkh** 1995; 67(12):19–21 (Eng. Abstr.) **(Rus)**

[Hypertrophic myocardiopathy with isoelectric T waves] Gómez-Marino MA, et al. **Rev Esp Cardiol** 1996 Aug; 49(8):567–79 (56 ref.) (Eng. Abstr.) **(Spa)**

[Atrioventricular stimulation in symptomatic obstructive hypertrophic myocardiopathy: still too many questions (comment)] Penas Lado M, et al. **Rev Esp Cardiol** 1996 Nov;49(11):823–5. Comment on: Rev Esp Cardiol 1996 Nov;49(11):815–22. **(Spa)**

[Impact of electric cardiac stimulation on ventricular function and the natural history of patients with myocardiopathy] Tascón JC, et al. **Rev Esp Cardiol** 1996 Aug;49(8):598–608 (72 ref.) (Eng. Abstr.) **(Spa)**

[Immediate hemodynamic response to atrioventricular+ stimulation in severe hypertrophic obstructive myocardiopathy (see comments)] Tascón Pérez JC, et al. **Rev Esp Cardiol** 1996 Nov;49(11):815–22 (Eng. Abstr.). Comment in: Rev Esp Cardiol 1996 Nov;49(11):823–5. **(Spa)**

PREVENTION & CONTROL

Myocardial protection in chronic volume-overload hypertrophy of immature rat hearts. Karck M, et al. **Eur J Cardiothorac Surg** 1996;10(8):690–8

PSYCHOLOGY

Health related quality of life and psychological wellbeing in patients with hypertrophic cardiomyopathy. Cox S, et al. **Heart** 1997 Aug;78(2):182–7

RADIONUCLIDE IMAGING

Mechanical efficiency in hypertrophic cardiomyopathy assessed by positron emission tomography with carbon 11 acetate. Ishiwata S, et al. **Am Heart J** 1997 May; 133(5):497–503

Coronary vasodilator reserve in primary and secondary left ventricular hypertrophy. A study with positron emission tomography. Choudhury L, et al. **Eur Heart J** 1997 Jan; 18(1):108–16

Myocardial scintigraphic study with 123I 15-(p-iodophenyl)-3(R,S)-methylpentadecanoic acid in patients with hypertrophic cardiomyopathy. Shimizu M, et al. **Int J Cardiol** 1996 Apr 19;54(1):51–9

Sonicated albumin for evaluating midventricular obstruction in hypertrophic cardiomyopathy. Shimizu M, et al. **J Cardiol** 1996 Feb;27(2):57–63

Do repolarization abnormalities in hypertrophic cardiomyopathy represent impaired fatty acid utilization? An observation with QRST isointegral maps. Kawakami Y, et al. **J Electrocardiol** 1997 Jan;30(1):21–9

Detection of impaired fatty acid metabolism and dyskinesis in hypertrophic cardiomyopathy with iodine-123-BMIPP. Nakata T, et al. **J Nucl Med** 1996 Oct;37(10):1679–81

[Myocardial sympathetic activity and characteristics in hypertrophic cardiomyopathy: comparison with hypertensive hypertrophy] Narita M, et al. **J Cardiol** 1996 Mar;27(3):133–41 (Eng. Abstr.) **(Jpn)**

[Regional left ventricular contraction kinetics in patients with hypertrophic cardiomyopathy: investigation by ECG-gated myocardial SPECT with 99mTc-MIBI] Narita M, et al. **Kaku Igaku** 1996 Jun;33(6):617–28 (Eng. Abstr.) **(Jpn)**

[The serial change of the 123I-BMIPP SPECT in patients with hypertrophic cardiomyopathy] Okuyama C, et al. **Kaku Igaku** 1996 Dec;33(12):1329–36 (Eng. Abstr.) **(Jpn)**

[The mechanism of giant negative T wave in electrocardiogram in patients with apical hypertrophic cardiomyopathy: evaluation with thallium-201 and iodine-123 metaiodobenzylguanidine myocardial scintigraphy] Wang Y, et al. **Kaku Igaku** 1996 Sep; 33(9):999–1004 (Eng. Abstr.) **(Jpn)**

SURGERY

Video-assisted resection of hypertrophied and fibrous intraventricular tissue. Bauer EP, et al. **Ann Thorac Surg** 1997 Apr;63(4):1180–2

Septal myectomy in hypertrophic obstructive cardiomyopathy: late results with stress echocardiography. Göl MK, et al. **Ann Thorac Surg** 1997 Sep;64(3):739–45

Transcatheter alcohol ablation of the septum in a patient of hypertrophic obstructive cardiomyopathy. Bhargava B, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):56–8

Extent of clinical improvement after surgical treatment of hypertrophic obstructive cardiomyopathy. McCully RB, et al. **Circulation** 1996 Aug 1;94(3):467–71

Hypertrophic cardiomyopathy with apical aneurysm: a case of catheter and surgical therapy of sustained monomorphic ventricular tachycardia. Mantica M, et al. **Heart** 1997 May; 77(5):481–3

Hypertrophic obstructive cardiomyopathy in pediatric patients: results of surgical treatment. Theodoro DA, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1589–97; discussion 1597–9

[Radiofrequency catheter ablation of an accessory atrioventricular conduction pathway with persistent left superior vena cava and hypertrophic cardiomyopathy] Neuser H, et al. **Z Kardiol** 1996 Aug;85(8):596–602 (Eng. Abstr.) **(Ger)**

[Early postoperative changes in systolic and diastolic function at rest and during stress in patients with hypertrophic obstructive cardiomyopathy (HOCM) after myectomy] Schwartzkopff B, et al. **Z Kardiol** 1997 Jun;86(6):438–49 (Eng. Abstr.) **(Ger)**

[A case report: surgical treatment of hypertrophic obstructive cardiomyopathy with acute hemodynamic deterioration due to chordae rupture of the mitral valve] Kioka Y, et al. **Kyobu Geka** 1997 May;50(5):389–93 (Eng. Abstr.) **(Jpn)**

[Emergency myectomy in a patient with hypertrophic obstructive cardiomyopathy complicated with left heart failure and cardiac arrest] Abe H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1896–901 (Eng. Abstr.) **(Jpn)**

[Mitral valve replacement following myomectomy for idiopathic hypertrophic subaortic stenosis] Shigenobu M, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):365–8 (Eng. Abstr.) **(Jpn)**

[Creation of additional left ventricular tract in female patient with hypertrophic cardiomyopathy] Poliakov VP, et al. **Khirurgiia (Mosk)** 1997;(1):63–4 **(Rus)**

[Initial experience with the surgical treatment of hypertrophic cardiopathy using an apico–aortic valved conduit] Poliakov VP, et al. **Vestn Khir Im I I Grek** 1996; (1):17–20 (Eng. Abstr.) **(Rus)**

THERAPY

Hypertrophic obstructive cardiomyopathy: problems of management. Tavel ME, et al. **Chest** 1997 Jul;112(1):262–4

Nonsurgical septal reduction for hypertrophic obstructive cardiomyopathy: outcome in the first series of patients [see comments] Knight C, et al. **Circulation** 1997 Apr 15; 95(8):2075–81. Comment in: Circulation 1997 Apr 15;95(8):1981–2.

Images in cardiovascular medicine. Dual–chamber pacing in a patient with hypertrophic cardiomyopathy. Nishimura RA, et al. **Circulation** 1997 Sep 2;96(5):1701

DDD pacing and obstructive hypertrophic cardiomyopathy [letter] Schavone WA, et al. **Circulation** 1996 Oct 1; 94(7):1789–90

Hypertrophic obstructive cardiomyopathy: alternative therapeutic options [letter] Cheng TO. **Clin Cardiol** 1997 Jul;20(7):667

Hypertrophic obstructive cardiomyopathy: alternative therapeutic options [editorial] Lakkis N, et al. **Clin Cardiol** 1997 May;20(5):417–8

The use of pacemakers in the treatment of cardiomyopathies. Symanski JD, et al. **Curr Probl Cardiol** 1996 Jun; 21(6):385–443 (77 ref.)

A new treatment for hypertrophic cardiomyopathy? [editorial; comment] Braunwald E. **Eur Heart J** 1997 May; 18(5):709–10. Comment on: Eur Heart J 1997 May;18(5):846–51.

Long–term effects of dual chamber pacing in patients with hypertrophic cardiomyopathy without outflow tract obstruction at rest. Gadler F, et al. **Eur Heart J** 1997 Apr; 18(4):636–42

Induction of subaortic septal ischaemia to reduce obstruction in hypertrophic obstructive cardiomyopathy. Studies to develop a new catheter–based concept of treatment [see comments] Kuhn H, et al. **Eur Heart J** 1997 May; 18(5):846–51. Comment in: Eur Heart J 1997 May;18(5):709–10.

Septal coronary artery ablation for hypertrophic obstructive cardiomyopathy. Bahl VK, et al. **Indian Heart J** 1996 Nov–Dec;48(6):701–3

Unobstructed thinking (and terminology) is called for in the understanding and management of hypertrophic cardiomyopathy [editorial;comment] Criley JM. **J Am Coll Cardiol** 1997 Mar 15;29(4):741–3. Comment on: J Am Coll Cardiol 1997 Mar 15;29(4):734–40.

Dual–chamber pacing for hypertrophic cardiomyopathy: a randomized, double–blind, crossover trial. Nishimura RA, et al. **J Am Coll Cardiol** 1997 Feb;29(2):435–41

Effects of dual–chamber pacing for pediatric patients with hypertrophic obstructive cardiomyopathy [see comments] Rishi F, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):734–40 . Comment in: J Am Coll Cardiol 1997 Mar 15;29(4):741–3.

The management of hypertrophic cardiomyopathy [letter; comment] Seggewiss H, et al. **N Engl J Med** 1997 Jul 31; 337(5):349–50. Comment on: N Engl J Med 1997 Mar 13;336(11):775–85.

The management of hypertrophic cardiomyopathy [see comments] Spirito P, et al. **N Engl J Med** 1997 Mar 13; 336(11):775–85 (151 ref.). Comment in: N Engl J Med 1997 Jul 31;337(5):349–50.

Pacing and hypertrophic obstructive cardiomyopathy [editorial] Daubert JC. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1141–2

Hypertrophic cardiomyopathy: evaluation and treatment of patients at high risk for sudden death. Fananapazir L, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):478–501 (132 ref.)

Dual chamber pacing in hypertrophic obstructive cardiomyopathy: beneficial effect of atrioventricular junction ablation for optimal left ventricular capture and filling. Jeanrenaud X, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):293–300

Regional wall motion during pacing for hypertrophic obstructive cardiomyopathy. Jeanrenaud X, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1673–81

Effect of dual chamber atrioventricular sequential pacing on coronary flow velocity in a patient with hypertrophic obstructive cardiomyopathy. Takeuchi M, et al. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 1):2153–5

Sudden death as a presenting symptom of hypertrophic cardiomyopathy: treatment with an implantable cardioverter defibrillator. Talard P, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1264–7

[Implantable automatic defibrillator. Clinical results apropos of 41 patients] Brunner P, et al. **Rev Med Liege** 1996 Sep; 51(9):576–81 **(Fre)**

[Therapy of hypertropic obstructive cardiomyopathy (see comments)] Gleichmann U, et al. **Dtsch Med Wochenschr** 1996 Nov 29;121(48):1485–6 (9 ref.) . Comment in: Dtsch Med Wochenschr 1997 Apr 11;122(15):494–5. **(Ger)**

[Therapy in hypertrophic obstructive cardiomyopathy (letter; comment)] Kuhn H, et al. **Dtsch Med Wochenschr** 1997 Apr 11;122(15):494–5. Comment on: Dtsch Med Wochenschr 1996 Nov 29;121(48):1485–6. **(Ger)**

[Long–term beneficial effect of dual chamber pacing in a patient with hypertrophic obstructive cardiomyopathy] Takahashi M, et al. **J Cardiol** 1997 Jun;29(6):345–52 (Eng. Abstr.) **(Jpn)**

[Clinical, electrical and surgical treatment of hypertrophic cardiomyopathy] da Silva MA. **Arq Bras Cardiol** 1996 Feb; 66(2):97–102 (35 ref.) **(Por)**

[Impact of electric cardiac stimulation on ventricular function and the natural history of patients with myocardiopathy] Tascón JC, et al. **Rev Esp Cardiol** 1996 Aug;49(8):598–608 (72 ref.) (Eng. Abstr.) **(Spa)**

[Pacemaker in hypertrophic obstructive cardiomyopathy. A new efficient treatment of heart disease] Gadler F, et al. **Lakartidningen** 1996 Oct 9;93(41):3566–8; 3571–2 **(Swe)**

ULTRASONOGRAPHY

Resting echocardiographic features of latent left ventricular outflow obstruction in hypertrophic cardiomyopathy. Nakatani S, et al. **Am J Cardiol** 1996 Sep 15;78(6):662–7

Echocardiographic predictors of poor outcome in infants with hypertrophic cardiomyopathy. Suda K, et al. **Am J Cardiol** 1997 Sep 1;80(5):595–600

Assessment of apical hypertrophic cardiomyopathy using transoesophageal echocardiography. Crowley JJ, et al. **Cardiology** 1997 Mar–Apr;88(2):189–96

Myocardial ultrasonic tissue characterization in pediatric and adult patients with hypertrophic cardiomyopathy. Vitale DF, et al. **Circulation** 1996 Dec 1;94(11):2826–30

Severe hypertrophic cardiomyopathy in an infant of a diabetic mother [letter] Franzese A, et al. **Diabetes Care** 1997 Apr;20(4):676–7

Transthoracic Doppler echocardiographic analysis of phasic coronary blood flow velocity in hypertrophic cardiomyopathy. Crowley JJ, et al. **Heart** 1997 Jun; 77(6):558–63

Coronary flow reserve and exercise capacity in hypertrophic cardiomyopathy. Dimitrow PP, et al. **Heart Vessels** 1996; 11(3):160–4

Hypertrophic cardiomyopathy in infancy. Khalil A. **Indian Pediatr** 1997 Feb;34(2):147–8

Apical hypertrophic cardiomyopathy: a study of 14 patients and their first degree relatives. Barbosa MM, et al. **Int J Cardiol** 1996 Sep;56(1):41–51

Noninvasive doppler echocardiographic evaluation of left ventricular filling pressures in patients with cardiomyopathies: a simultaneous Doppler echocardiographic and cardiac catheterization study. Nishimura RA, et al. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1226–33

Subaortic septal bulge simulates hypertrophic cardiomyopathy by angulation of the septum with age, independent of focal hypertrophy. An echocardiographic study. Krasnow N. **J Am Soc Echocardiogr** 1997 Jun; 10(5):545–55

Apical hypertrophic cardiomyopathy. Ansari A, et al. **Tex Heart Inst J** 1997;24(2):139

[Doppler echocardiographic investigation of cardiomyopathies] Dubourg O, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:39–45 (36 ref.) (Eng. Abstr.) **(Fre)**

[Asymmetric hypertrophic cardiomyopathy in a septic patient—intraoperative preliminary diagnosis with transesophageal echocardiography] Greim CA, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jul; 32(7):463–5 (Eng. Abstr.) **(Ger)**

[Clinical value of multiplane transesophageal echocardiography in the diagnosis of lipomatous hypertrophy of the interatrial septum. Report of two clinical cases] Galzerano D, et al. **Minerva Cardioangiol** 1996 Jun;44(6):313–7 (Eng. Abstr.) **(Ita)**

[Differentiation of hypertrophic cardiomyopathy and hypertensive cardiac hypertrophy using the patterns of interventricular septum hypertrophy] Ieki K, et al. **J Cardiol** 1996 Jun;27(6):309–14 (Eng. Abstr.) **(Jpn)**

[Estimation of right ventricular contractility by continuous–wave Doppler echocardiography] Yamada S, et al. **J Cardiol** 1996 Nov;28(5):287–93 (Eng. Abstr.) **(Jpn)**

[Hypertrophic cardiomyopathy] Sasaki T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):193–8 (18 ref.) **(Jpn)**

[Doppler echocardiography in hypertrophic myocardiopathy] Asín Cardiel E, et al. **Rev Esp Cardiol** 1996 Feb;49(2):136–45 (41 ref.) (Eng. Abstr.) **(Spa)**

VETERINARY

Ultrastructural alterations in pigs with naturally occurring hypertrophic cardiomyopathy. Dai KS, et al. **Br Vet J** 1995 May;152(3):333–8

Magnesium status and the effect of magnesium supplementation in feline hypertrophic cardiomyopathy. Freeman LM, et al. **Can J Vet Res** 1997 Jul;61(3):227–31

Hypertrophic cardiomyopathy in a common wombat (Vombatus ursinus). Machida N, et al. **J Comp Pathol** 1997 Jul;117(1):91–4

Collagen in naturally occurring hypertrophied porcine myocardium. Dai KS, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):81–5

Two necropsy cases of hypertrophic cardiomyopathy in Holstein cattle. Machida N, et al. **J Vet Med Sci** 1996 Sep; 58(9):929–32

Heritability estimate of hypertrophic cardiomyopathy in pigs (Sus scrofa domestica). Huang SY, et al. **Lab Anim Sci** 1996 Jun;46(3):310–4

CARDIOMYOPATHY, HYPERTROPHIC OBSTRUCTIVE see **CARDIOMYOPATHY, HYPERTROPHIC**

CARDIOMYOPATHY, RESTRICTIVE

A current appreciation of cardiomyopathies. Goodwin JF. **Acta Cardiol** 1996;51(3):189–202 (61 ref.)

Restrictive cardiomyopathy [see comments] Kushwaha SS, et al. **N Engl J Med** 1997 Jan 23;336(4):267–76 (136 ref.) . Comment in: N Engl J Med 1997 Jun 26;336(26):1917; discussion 1917–8.

[Restrictive cardiomyopathy (RCM)] Okada R. **Ryoikibetsu Shokogun Shirizu** 1996;(14):98–101 (20 ref.) **(Jpn)**

[Stiff heart syndrome] Oshima S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):554–6 (11 ref.) **(Jpn)**

[Myocardiopathies (XI). Restrictive myocardiopathy: concept, classification, and clinical approach] Huelmos A, et al. **Rev Esp Cardiol** 1996 Jul;49(7):523–31 (43 ref.) (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Restrictive cardiomyopathy [letter; comment] Reisinger J, et al. **N Engl J Med** 1997 Jun 26;336(26):1917; discussion 1917–8. Comment on: N Engl J Med 1997 Jan 23;336(4):267–76.

[Left ventricular diastolic dysfunction in cardiomyopathies] Bareiss P, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:25–31 (Eng. Abstr.) **(Fre)**

[Anesthetic management of a patient complicated with restrictive cardiomyopathy for gastrectomy] Nishida T, et al. **Masui** 1996 Oct;45(10):1265–8 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Idiopathic myocardial vasculitis presenting as restrictive cardiomyopathy. Frustaci A, et al. **Chest** 1997 May; 111(5):1462–4

Constrictive pericarditis versus restrictive cardiomyopathy [letter] Guntheroth WG. **Circulation** 1997 Jan 21; 95(2):542–3

Idiopathic restrictive cardiomyopathy in childhood. A diastolic disorder characterized by delayed relaxation. Gewillig M, et al. **Eur Heart J** 1996 Sep;17(9):1413–20

Restrictive cardiomyopathy [letter; comment] Spodick DH. **N Engl J Med** 1997 Jun 26;336(26):1917; discussion 1917–8 . Comment on: N Engl J Med 1997 Jan 23;336(4):267–76.

[What is your diagnosis? Right ventricular dysplasia] Erne P. **Schweiz Rundsch Med Prax** 1996 Nov 26;85(48):1531–3 **(Ger)**

[The restrictive syndrome in endomyocardial fibrosis and the effect of enalapril based on acute drug test data] Bapumiia M, et al. **Ter Arkh** 1996;68(8):19–21 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Restrictive cardiomyopathies in childhood. Etiologies and natural history. Denfield SW, et al. **Tex Heart Inst J** 1997; 24(1):38–44

[Restriction–dilatation syndrome] Hamada M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):11–4 (7 ref.) **(Jpn)**

[Restrictive cardiomyopathy with eosinophilic leukemia]

Ohta M, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (14):88–93 (13 ref.) **(Jpn)**

[A clinical case of restrictive myocarditis due to senile-type amyloidosis] Martins M, et al. **Rev Port Cardiol** 1997 Apr; 16(4):383–9, 352 (12 ref.) (Eng. Abstr.) **(Por)**

[Restrictive cardiac involvement in a patient with dyserythropoietic anemia and secondary hemochromatosis] Barriales Alvarez V, et al. **Rev Esp Cardiol** 1996 Aug; 49(8):618–20 (Eng. Abstr.) **(Spa)**

GENETICS

Restrictive cardiomyopathy due to desmin accumulation in a family with evidence of autosomal dominant inheritance. Zachara E, et al. **G Ital Cardiol** 1997 May;27(5):436–42

PATHOLOGY

Restrictive cardiomyopathy due to desmin accumulation in a family with evidence of autosomal dominant inheritance. Zachara E, et al. **G Ital Cardiol** 1997 May;27(5):436–42

Idiopathic restrictive cardiomyopathy with diffuse perimyocytic fibrosis--a rare observation. Suzuki T, et al. **Jpn Circ J** 1997 Mar;61(3):272–4

[Case 6/95 (Instituto do Corac-ao do Hospital das Cl-inicas-FMUSP) (clinical conference)] **Arq Bras Cardiol** 1995 Dec;65(6):501–7 **(Por)**

PHYSIOPATHOLOGY

Phasic coronary flow characteristics in patients with constrictive pericarditis: comparison with restrictive cardiomyopathy. Akasaka T, et al. **Circulation** 1997 Sep 16;96(6):1874–81

Idiopathic restrictive cardiomyopathy in childhood. A diastolic disorder characterized by delayed relaxation. Gewillig M, et al. **Eur Heart J** 1996 Sep;17(9):1413–20

SURGERY

Left ventricular volume reduction for end-stage heart failure: new horizon or false dawn? Bryan AJ, et al. **Br J Hosp Med** 1997 Apr 2–15;57(7):323–5

Heterotopic cardiac transplantation in infants and children [see comments] Khaghani A, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1042–8; discussion 1048–9. Comment in: J Thorac Cardiovasc Surg 1997 Jun;113(6):1041.

ULTRASONOGRAPHY

Doppler transmitral flow pattern is an independent prognostic factor in acute myocardial infarction. García-Rubira JC, et al. **Cardiology** 1997 Mar–Apr; 88(2):203–6

[Doppler echocardiographic investigation of cardiomyopathies] Dubourg O, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:39–45 (36 ref.) (Eng. Abstr.) **(Fre)**

CARDIOMYOPLASTY

Dynamic cardiomyoplasty. Moreira LF, et al. **Adv Card Surg** 1996;8:147–73 (64 ref.)

Re: The latissimus dorsi perforator-based fasciocutaneous flap [letter; comment] Hariawala MD, et al. **Ann Plast Surg** 1997 May;38(5):550. Comment on: Ann Plast Surg 1996 Nov;37(5):500–6.

Hemodynamic effects of different pacing ratios in chronic dynamic double cardiomyoplasty. Soltero ER, et al. **Ann Thorac Surg** 1996 Nov;62(5):1380–7

Comparative study on cardiomyoplasty patients with the cardiomyostimulator on versus off. Taşdemir O, et al. **Ann Thorac Surg** 1996 Dec;62(6):1708–13

Pericardium-lined skeletal muscle ventricles: up to two years' in-circulation experience. Thomas GA, et al. **Ann Thorac Surg** 1996 Dec;62(6):1698–706; discussion 1706–7

Intramural blood flow of skeletal muscle ventricles functioning as aortic counterpulsators. van Doorn CA, et al. **Ann Thorac Surg** 1997 Jul;64(1):86–93

Delayed stimulation of the latissimus dorsi may result in disuse atrophy. You JM, et al. **Ann Thorac Surg** 1997 Aug; 64(2):404–8; discussion 408–9

Factors influencing vortex development in a model of a skeletal muscle ventricle. Shortland AP, et al. **Artif Organs** 1996 Sep;20(9):1026–33

Decreased myocardial oxygen consumption indices in dynamic cardiomyoplasty. Chen FY, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II239–44

Images in cardiovascular Medicine. Dynamic cardiomyoplasty after Heart transplantation. An unusual electrocardiogram. Fernández González AL, et al. **Circulation** 1996 Jun 15;93(12):2204

Cardiomyoplasty in a patient with dextrocardia [letter] Van Doorn CA, et al. **Eur Heart J** 1996 Jun;17(6):967–8

Dynamic stiffness and implications for assisting the operation of the left ventricle. Thornton BS, et al. **IMA J Math Appl Med Biol** 1996 Dec;13(4):275–95

Multicenter trial of dynamic cardiomyoplasty for chronic heart failure. The American Cardiomyoplasty Group [see comments] Furnary AP, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1175–80. Comment in: J Am Coll Cardiol 1996 Nov 1;28(5):1181–2.

Cardiomyoplasty: is it time to wrap it up? [editorial; comment] Leier CV. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1181–2. Comment on: J Am Coll Cardiol 1996 Nov 1;28(5):1175–80.

Cardiomyoplasty: degeneration of the assisting skeletal muscle. Ianuzzo CD, et al. **J Appl Physiol** 1996 Apr; 80(4):1205–13

Flow in a simple model skeletal muscle ventricle: comparison between numerical and physical simulations. Henry FS, et al. **J Biomech Eng** 1997 Feb;119(1):13–9

Lessons learned before and after cardiomyoplasty: risk sensitive patient selection and post procedure quality of life. Furnary AP, et al. **J Card Surg** 1996 May–Jun; 11(3):200–6

Cardiomyoplasty: comparison of latissimus dorsi muscles of three large mammals with that of human. Ianuzzo CD, et al. **J Card Surg** 1996 Jan–Feb;11(1):30–6

Hemodynamic effects in acute cardiomyoplasty of different wrapped muscle activation times as measured by pressure-volume relations. Lorusso R, et al. **J Card Surg** 1996 May–Jun;11(3):217–25

On "preconditioning of skeletal muscle: application to dynamic cardiomyoplasty" by C. David Ianuzzo, et al [comment] Meldrum DR, et al. **J Card Surg** 1996 Mar–Apr; 11(2):109–10. Comment on: J Card Surg 1996 Mar–Apr;11(2):99–108.

Dynamic cardiomyoplasty in the treatment of dilated cardiomyopathy: current results and perspectives. Moreira LF, et al. **J Card Surg** 1996 May–Jun;11(3):207–16 (42 ref.)

Mechanisms of dynamic cardiomyoplasty: current concepts. Oh JH, et al. **J Card Surg** 1996 May–Jun;11(3):194–9 (45 ref.)

Binocular blindness following dynamic cardiomyoplasty. Robinson RJ, et al. **J Card Surg** 1996 Jan–Feb;11(1):75–8

Effects of cardiomyoplasty on cardiac growth in rats. van Doorn CA, et al. **J Card Surg** 1996 May–Jun;11(3):226–33

Mid-term results of heart transplantation, cardiomyoplasty, and medical treatment of refractory heart failure caused by idiopathic dilated cardiomyopathy. Bocchi EA, et al. **J Heart Lung Transplant** 1996 Jul;15(7):736–45

Pathologic findings of latissimus dorsi muscle graft in dynamic cardiomyoplasty: clinical implications. Misawa Y, et al. **J Heart Lung Transplant** 1997 Jun;16(6):585–95

Dynamic myoplasty: surgical transfer and stimulation of skeletal muscle for functional substitution or enhancement. Grandjean P, et al. **J Rehabil Res Dev** 1996 Apr; 33(2):133–44 (30 ref.)

Cardiomyoplasty combined with implantation of a cardioverter defibrillator. Chekanov VS, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):489–91

Long-term outcome, survival analysis, and risk stratification of dynamic cardiomyoplasty. Furnary AP, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1640–9; discusion 1649–50

Dynamic cardiomyoplasty: its chronic and acute effects on the failing heart. Patel HJ, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):169–78

A comparison of the early and midterm results after dynamic cardiomyoplasty in patients with ischemic or idiopathic cardiomyopathy. Tasdemir O, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):173–80; discussion 180–1

Electrostimulated cardiomyoplasty: from experimental to clinical studies [letter; comment] Chekanov V, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1380–1. Comment on: Pacing Clin Electrophysiol 1996 Aug;19(8):1205–10.

Electrostimulated cardiomyoplasty: from experimental to clinical studies [see comments] Dumcius A, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1205–10. Comment in: Pacing Clin Electrophysiol 1997 May;20(5 Pt 1):1380–1.

Influence of different conditioning methods on force and fatigue resistance in chronically stimulated skeletal muscles. Koller R, et al. **Pacing Clin Electrophysiol** 1996 Feb; 19(2):222–30

The importance and limitations of prospective randomized studies for new, evolving surgical procedures: lessons from the dynamic cardiomyoplasty trial [editorial] Li CM, et al. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 1):2035–9

[Dynamic cardiomyoplasty: models of action and indications] Hagège A, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:47–50 (29 ref.) (Eng. Abstr.) **(Fre)**

[Dynamic cardiomyoplasty: current status and concepts of the mechanism of action] Lange R, et al. **Z Kardiol** 1996; 85 Suppl 6:309–15 (25 ref.) (Eng. Abstr.) **(Ger)**

[Value of dynamic cardiomyoplasty] Lange R, et al. **Z Kardiol** 1996;85 Suppl 4:49–58; discussion 59 (Eng. Abstr.) **(Ger)**

[Cardiomyoplasty. Critical review of experimental and clinical results] Calsamiglia G, et al. **G Ital Cardiol** 1996 Dec;26(12):1467–79 (57 ref.) (Eng. Abstr.) **(Ita)**

[Cardiomyoplasty effectiveness: review of the mechanism] Kaneko Y, et al. **J Cardiol** 1996 Mar;27(3):153–7 (27 ref.) (Eng. Abstr.) **(Jpn)**

INSTRUMENTATION

Examination of epimysial leads used to stimulate the latissimus dorsi muscle. Hansen SB, et al. **IEEE Trans Biomed Eng** 1996 Jun;43(6):653–7

[Mechanical system of left ventricle cannulation: control of tightness by experimental left ventricular assistance] Bezon E, et al. **Chirurgie** 1996;121(6):447–52 (Eng. Abstr.) **(Fre)**

METHODS

Aortomyoplasty and muscle relaxants [letter] Pandit JJ. **Anesth Analg** 1997 Sep;85(3):708–9

Right latissimus dorsi cardiomyoplasty improves left ventricular energetics. Aklog L, et al. **Ann Thorac Surg** 1997 Sep;64(3):670–7

Vascular delay of the latissimus dorsi muscle: an essential component of cardiomyoplasty. Carroll SM, et al. **Ann Thorac Surg** 1997 Apr;63(4):1034–40

Suggestions for overcoming the weak points of cardiomyoplasty [letter; comment] Chekanov VS, et al. **Ann Thorac Surg** 1996 Oct;62(4):1245–7. Comment on: Ann Thorac Surg 1996 Jan;61(1):413–9.

Thoracoscopic cardiomyoplasty: a canine feasibility study. Kaneko Y, et al. **Ann Thorac Surg** 1997 Feb;63(2):477–81

Configuration of linear dynamic cardiomyoplasty for hypoplastic right ventricle. Morita K, et al. **Ann Thorac Surg** 1997 Mar;63(3):676–82

Effects of wrapping tightness on acute cardiac function in dynamic cardiomyoplasty. Takagi H, et al. **Ann Thorac Surg** 1997 Jun;63(6):1706–11; discussion 1711–2

Cardiac binding in experimental heart failure. Vaynblat M, et al. **Ann Thorac Surg** 1997 Jul;64(1):81–5

Effects of stimulated free latissimus dorsi muscle graft on LVEDV and LVSW: a new dynamic cardiomyoplasty technique. Dudra J, et al. **Artif Organs** 1997 Apr; 21(4):306–11

Hot-knife dissection of the latissimus dorsi muscle for dynamic cardiomyoplasty. Takahashi M, et al. **Artif Organs** 1997 Feb;21(2):167–71

Biologic glue increases capillary ingrowth after cardiomyoplasty in an ischemic cardiomyopathy model. Chekanov VS, et al. **ASAIO J** 1996 Sep–Oct;42(5):M480–7

Progressive pressure expansion in skeletal muscle ventricle conditioning. Gustafson KJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M360–4

Dynamic cardiomyoplasty. Tang G, et al. **Br J Hosp Med** 1997 Apr 2–15;57(7):329–32

Fast-to-slow muscle conversion by chronic electrostimulation: effects on mitochondrial respiratory chain function with possible implications for the gracilis neosphincter procedure [letter; comment] Hariawala MD. **Br J Surg** 1997 Apr;84(4):580–1. Comment on: Br J Surg 1996 Nov;83(11):1569–73.

Skeletal muscle ventricles, left ventricular apex-to-aorta configuration. 1 to 11 weeks in circulation. Greer KA, et al. **Circulation** 1997 Jan 21;95(2):497–502

Radical alternatives to transplantation. Starling RC. **Curr Opin Cardiol** 1997 Mar;12(2):166–71 (22 ref.)

Dynamic cardiomyoplasty: how well does it work? Lange R, et al. **Eur Heart J** 1997 Feb;18(2):191–7

Cardiomyoplasty as an isolated procedure to treat refractory heart failure. Lorusso R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):363–72

Cardiomyoplasty: studies on goat latissimus dorsi blood flow and muscle damage following surgical dissection and chronic electrical stimulation. Anderson WA, et al. **J Card Surg** 1996 Jul–Aug;11(4):237–46

Heparin and basic fibroblast growth factor are associated with preservation of latissimus cardiomyoplasties in goats: a retrospective study. Bailey WF, et al. **J Card Surg** 1996 Jul–Aug;11(4):247–55

Cardiomyoplasty: transformation of the assisting muscle using intermittent versus continuous stimulation. Ianuzzo CD, et al. **J Card Surg** 1996 Jul–Aug;11(4):293–303

Preservation of the latissimus dorsi muscle during cardiomyoplasty surgery [see comments] Ianuzzo CD, et al. **J Card Surg** 1996 Mar–Apr;11(2):99–108. Comment in: J Card Surg 1996 Mar–Apr;11(2):109–10.

Pericardial "suspenders" to enhance right latissimus dorsi cardiomyoplasty. Lorusso R, et al. **J Card Surg** 1996 Jan–Feb;11(1):46–8

Long-term results of right latissimus dorsi cardiomyoplasty. Magovern JA, et al. **J Card Surg** 1996 Jul–Aug; 11(4):264–70

Skeletal muscle ventricles: another alternative for heart failure. Niinami H, et al. **J Card Surg** 1996 Jul–Aug; 11(4):280–7 (40 ref.)

Progressive latissimus dorsi muscle denervation for free-flap dynamic cardiomyoplasty. Tapia M, et al. **J Card Surg** 1996 Jul–Aug;11(4):256–63

Skeletal muscle ventricles in continuity with the bloodstream. Ukoha OO, et al. **J Card Surg** 1996 Jul–Aug;11(4):271–9

Vascular delay improves latissimus dorsi muscle perfusion and muscle function for use in cardiomyoplasty. Carroll SM, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1329–37

[Cardiomyopexy--current status of an indirect revascularization method] Beyer M. **Z Kardiol** 1997;86 Suppl 1:125–32 (20 ref.) (Eng. Abstr.) **(Ger)**

[Initial clinical experiences with indirect myocardial revascularization--free skeletal muscle transplantation for induction of epimyocardial neovascularization] Beyer M, et al. **Z Kardiol** 1996;85 Suppl 4:29–33 (Eng. Abstr.) **(Ger)**

[Cardiomyoplasty] Alfieri O. **Cardiologia** 1996 Oct; 41(10):1005–6 **(Ita)**

[The use of skeletal muscle in the surgical treatment of heart failure] Saenko VF, et al. **Klin Khir** 1996;(7):33–7 (38 ref.) **(Rus)**

[Cardiomyoplasty--a surgical method of treatment in heart failure] Nemkov AS, et al. **Vestn Khir Im I I Grek** 1996; 155(6):9–13 (Eng. Abstr.) **(Rus)**

CARDIOMYOPLASTY, DYNAMIC see **CARDIOMYOPLASTY**

CARDIOPLEGIA see **HEART ARREST, INDUCED**

CARDIOPLEGIC SOLUTIONS

Safety, tolerance, and efficacy of adenosine as an additive to blood cardioplegia in humans during coronary artery bypass surgery. Mentzer RM Jr, et al. **Am J Cardiol** 1997 Jun 19;79(12A):38–43

Changes in myocardial concentration of glutamate and aspartate during coronary artery surgery. Suleiman MS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1063–9

Cardioplegia preserves hypoxic response in isolated coronary arteries but not in isolated hearts. Barbé CC, et al. **Ann Thorac Surg** 1997 May;63(5):1303–8

Beneficial effects of fluosol–polyethylene glycol cardioplegia on cold, preserved rabbit heart. Bhayana JN, et al. **Ann Thorac Surg** 1997 Feb;63(2):459–64

Adenosine and K(+)-induced Ca2+ loading [letter; comment] Cheng TO. **Ann Thorac Surg** 1997 Aug; 64(2):588–9. Comment on: Ann Thorac Surg 1997 Jan;63(1):153–61.

Effects of specific sodium/hydrogen exchange inhibitor during cardioplegic arrest. Choy IO, et al. **Ann Thorac Surg** 1997 Jul;64(1):94–9

Beyond hyperkalemia: beta–blocker–induced cardiac arrest for normothermic cardiac operations. Ede M, et al. **Ann Thorac Surg** 1997 Mar;63(3):721–7

The effect of fluorocarbon emulsion on 24–hour canine heart preservation 1989: Updated in 1997 by Hidenori Gohra,MD, Yoshihiko Fujimura, MD, Kimikazu Hamano, MD, Hiroshi Noda, MD, Tomoe Katoh, MD, Nobuya Zempo, MD, and Kensuke Esato, MD. Gohra H, et al. **Ann Thorac Surg** 1997 Feb;63(2):594–5

1989: postoperative conduction disturbances: a comparison of blood and crystalloid cardioplegia. Updated in 1997. Gundry SR, et al. **Ann Thorac Surg** 1997 Mar;63(3):901–2

Functional and metabolic effects of adenosine in cardioplegia: role of temperature and concentration. Katayama O, et al. **Ann Thorac Surg** 1997 Feb;63(2):449–54; discussion 454–5

Effect of heparin loading during congenital heart operation on thrombin generation and blood loss. Turner–Gomes SO, et al. **Ann Thorac Surg** 1997 Feb;63(2):482–8

Effects of blood and crystalloid cardioplegia on adrenergic and myogenic vascular mechanisms. Wang SY, et al. **Ann Thorac Surg** 1997 Jan;63(1):41–9

Magnesium in cardioplegia: is it necessary? Shakerinia T, et al. **Can J Surg** 1996 Oct;39(5):397–400

Strategies of myocardial protection during cardiac surgery. Hsi CC, et al. **Chin Med J (Engl)** 1996 Dec;109(12):903–8 (28 ref.)

Interrupted warm blood cardioplegia [letter; comment] Ali IM. **Eur J Cardiothorac Surg** 1996;10(6):480. Comment on: Eur J Cardiothorac Surg 1995;9(3):133–8.

Effects of two different crystalloid cardioplegic solutions assessed by myocardial pH, tissue lactate content and energy metabolism. Bical OM, et al. **Eur J Cardiothorac Surg** 1996;10(6):417–21

Myocardial protection of the hypoxic heart [letter; comment] Baker JE, et al. **J Thorac Cardiovasc Surg** 1997 Jun; 113(6):1123–4. Comment on: J Thorac Cardiovasc Surg 1996 Nov;112(5):1193–200; discussion 1200–1.

Deoxygenated blood minimizes adherence of sonicated albumin microbubbles during cardioplegic arrest and after blood reperfusion: experimental and clinical observations with myocardial contrast echocardiography. Bayfield MS, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1100–8

Myocardial protection in normal and hypoxically stressed neonatal hearts: the superiority of blood versus crystalloid cardioplegia. Bolling K, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):994–1003; discussion 1003–5

What is the best perfusion temperature for coronary revascularization? Engelman RM, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1622–32; discussion 1632–3

Endothelial stunning and myocyte recovery after reperfusion of jeopardized muscle: a role of L–arginine blood cardioplegia. Mizuno A, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):379–89

Effect of glutamate–aspartate reperfusion on postischemic neonatal myocardium. Sett SS, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):462–6

Biochemical and morphological changes in isolated rabbit hearts after prolonged hypothermic ischaemia: comparison of two cardioplegic solutions. Poltronieri R, et al. **Physiol Res** 1995;44(3):157–64

Cardioplegic protection of hearts with pre–arrest ischaemic injury: effect of glucose, aspartate, and lactobionate. Choong YS, et al. **Thorac Cardiovasc Surg** 1995 Dec; 43(6):331–7

Renal preservation with phosphate buffered sucrose: comparison with hyperosmolar citrate in a prospective trial. Ahmad N, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):355–6

12–hour preservation of rat hearts with "fabrique d'implants et d'instruments" or University of Wisconsin oxygenated microperfused cardioplegic solution. Bauza G, et al. **Transplant Proc** 1996 Oct;28(5):2899

Organ preservation solutions in heart transplantation--patterns of usage and related survival. Demmy TL, et al. **Transplantation** 1997 Jan 27;63(2):262–9

[Comparison of the protective prorerties of St. Thomas', Tyers', and Bretschneider's cardioplegic solutions in the neonatal rabbit heart] Murashita T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):2019–26 (Eng. Abstr.) **(Jpn)**

[The effect of continuous perfusion with St. Thomas' Hospital cardioplegic solution containing glucose, insulin and L–aspartate on functional recovery after myocardial preservation in the rat] Shimada Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1742–8 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Evaluation of 7,000+ patients with two different routes of cardioplegia. Arom KV, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1619–24

Induction of early immediate genes and programmed cell death following cardioplegic arrest in human hearts. Aebert H, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):261–7

Coronary autoregulation protects against harmful effects of commonly used cardioplegia delivery pressure. Irtun O, et al. **Eur J Cardiothorac Surg** 1996;10(6):456–60

Maldistribution of multidose blood cardioplegia: pharmacologic intervention to prevent subendocardial hypoperfusion by alpha–adrenergic blockade. Sakakibara Y. **Eur Surg Res** 1997;29(1):20–6

A comparison of distribution between simultaneously or sequentially delivered antegrade/retrograde blood cardioplegia. Lee J, et al. **J Card Surg** 1996 Mar–Apr; 11(2):111–5

Angiographic and electron–beam computed tomography studies of retrograde cardioplegia via the coronary sinus. Farge A, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):1046–53

Assessment of retrograde cardioplegia with magnetic resonance imaging and localized 31P spectroscopy in isolated pig hearts. Tian G, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):109–16

Massive arterial air embolism during cardiopulmonary bypass: antegrade blood cardioplegia delivered by the pump—an accident waiting to happen. Jones NC, et al. **Perfusion** 1996 Mar;11(2):157–61

Blood cardioplegia does not increase haemolysis. A comparison between crystalloid and blood cardioplegia in coronary artery bypass grafting. Rinne TT. **Scand J Thorac Cardiovasc Surg** 1996;30(2):65–9

Effect of phosphodiesterase III–inhibitor (E–1020) adjunct to Bretschneider's HTK cardioplegic solution on myocardial preservation in rabbit heart. Wang Y, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):167–72

[The effects of cardioplegia and reperfusional blood containing captopril on myocardial ultrastructure alterations after cardiac arrest] Guo X, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):733–7 (Eng. Abstr.) **(Chi)**

[Exogenous adenosine in cardioplegia] Haverich A, et al. **Z Kardiol** 1996;85 Suppl 6:201–4 (35 ref.) (Eng. Abstr.) **(Ger)**

[The efficacy of myocardial protection with prolonged aortic cross–clamping] Fujioka Y, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):170–3 (Eng. Abstr.) **(Jpn)**

[Effect of magnesium containing cardioplegic solution on the cases of extended aortic cross clamping] Inui K, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):468–71 (Eng. Abstr.) **(Jpn)**

[A clinical study of diltiazem administration using cold glucose–insulin–potassium cardioplegic solution--comparison between diltiazem cardioplegia and diltiazem pretreatment] Koike R, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):162–8 (Eng. Abstr.) **(Jpn)**

[Clinical assessment of myocardial protection with blood–GIK solution] Koyama N, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):169–72 (Eng. Abstr.) **(Jpn)**

[Comparison of cold blood cardioplegia and cold crystalloid cardioplegia with or without magnesium] Kuraoka S, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):173–5 (Eng. Abstr.) **(Jpn)**

[Adenosine triphosphate: an additive myocardial agent in cardioplegia] Mochizuki Y, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):176–9 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Cardiopulmonary bypass tubes and prime solutions stimulate neutrophil adhesion molecules. el Habbal MH, et al. **Cardiovasc Res** 1997 Jan;33(1):209–15

CHEMISTRY

Crystalloid versus cold blood cardioplegia and cardiac troponin I release. Pichon H, et al. **Circulation** 1997 Jul 1;96(1):316–20

Effects of magnesium cardioplegia on regulation of the porcine coronary circulation. Tofukuji M, et al. **J Surg Res** 1997 May;69(2):233–9

Aspartate/glutamate–enriched blood does not improve myocardial energy metabolism during ischemia–reperfusion: a 31P magnetic resonance spectroscopic study in isolated pig hearts. Ghomeshi HR, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1068–77; discussion 1077–80

PHARMACOKINETICS

Evidence of improved microvascular perfusion when using antegrade and retrograde cardioplegia. Gates RN, et al. **Ann Thorac Surg** 1996 Nov;62(5):1388–91

Myocardial distribution of cardioplegia administered by antegrade and retrograde routes to ischemic myocardium. Carrier M, et al. **Can J Surg** 1997 Apr;40(2):108–13

Assessment of myocardial distribution of retrograde and antegrade cardioplegic solution in the same patients. Hirata N, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):242–7

[Left ventricular distribution of retrograde cardioplegia. Should the interventricular posterior vein be occluded in the coronary sinus?] Bezon E, et al. **Ann Cardiol Angeiol (Paris)** 1996 Nov;45(9):495–502 (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Clinical assessment of prolonged myocardial preservation for patients with a severely dilated heart. Hachida M, et al. **Ann Thorac Surg** 1997 Jul;64(1):59–63

Adenosine prevents hyperkalemia–induced calcium loading in cardiac cells: relevance for cardioplegia [see comments] Jovanović A, et al. **Ann Thorac Surg** 1997 Jan;63(1):153–61 . Comment in: Ann Thorac Surg 1997 Aug;64(2):588–9.

Zinc–bis–histidinate preserves cardiac function in a porcine model of cardioplegic arrest. Powell SR, et al. **Ann Thorac Surg** 1997 Jul;64(1):73–80

Effects of lung preservation with Euro–Collins and University of Wisconsin solutions on endothelium–dependent relaxations. Strüber M, et al. **Ann Thorac Surg** 1997 May;63(5):1428–35

Alteration in the control of mitochondrial respiration by outer mitochondrial membrane and creatine during heart preservation. Kay L, et al. **Cardiovasc Res** 1997 Jun; 34(3):547–56

Benefits of supplementing St Thomas' Hospital cardioplegic solution with tetraethylammonium on functional and metabolic recovery of isolated rat hearts. Bozkurt AK, et al. **Cardiovasc Surg** 1997 Feb;5(1):117–24

Initial reperfusion with 2,3 butanedione monoxime is better than hyperkalemic reperfusion after cardioplegic arrest in isolated guinea pig hearts. Habazettl H, et al. **Eur J Cardiothorac Surg** 1996;10(10):897–904

High cardioplegic perfusion pressure entails reduced myocardial recovery. Irtun O, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):358–62

Effect of cardioplegia infusion pressure on coronary artery endothelium and cardiac mechanical function. Katayama O, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):751–62

Prostaglandin E1 (PGE1) reduces cardiac–derived TXA2 release in ischaemic arrest in isolated working rat heart. Feng J, et al. **Int J Cardiol** 1996 Aug;55(3):265–70

Impaired endothelium–dependent relaxation after cardiac global ischemia and reperfusion: role of warm blood cardioplegia. Chang CH, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):681–7

Donor blood perfusion improves myocardial recovery after heart transplantation. Rao V, et al. **J Heart Lung Transplant** 1997 Jun;16(6):667–73

Direct effects of oxygenated crystalloid or blood cardioplegia on isolated myocyte contractile function. Handy JR Jr, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1064–72

Insulin and amino acid infusion after cardiac operations: effects on systemic and renal perfusion. Jeppsson A, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):594–602

Myocardial protection in the acutely injured heart: hyperpolarizing versus depolarizing hypothermic cardioplegia. Lawton JS, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):567–75

Altered endothelial and smooth muscle cell reactivity caused by University of Wisconsin preservation solution in human saphenous vein. Anastasiou N, et al. **J Vasc Surg** 1997 Apr; 25(4):713–21

Haemodynamic and metabolic effects of gallopamil as additive to calcium–containing and calcium–free cardioplegic solutions in mature pig hearts. Randsbaek F, et al. **Scand Cardiovasc J** 1997;31(2):83–9

Effect of the addition of albumin to crystalloid cardioplegic solutions on myocardial metabolism in infants undergoing open heart surgery. Hisatomi K, et al. **Surg Today** 1996; 26(6):395–9

Effect of the potassium–channel opener nicorandil as an adjunct to cardioplegia on myocardial preservation in isolated rabbit hearts. Wang Y, et al. **Surg Today** 1996; 26(10):782–92

Improved recovery after cold crystalloid cardioplegia using low–dose glutamate enrichment during reperfusion after aortic unclamping: a study in isolated blood–perfused pig hearts. Kimose HH, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):118–25

Comparison of University of Wisconsin and University of Pittsburgh solutions for heart transplantation. Hossain MA, et al. **Transpl Int** 1996;9(4):380–5

The effect and pharmacokinetics of nafamostat mesilate adjunct to cold nondepolarizing cardioplegia in a canine model of cardiac preservation. Sunamori M, et al. **Transpl Int** 1996;9(4):364–9

[The effect of coenzyme Q10 and cold cristalloid cardioplegia on hypothermic global ischemia] Yamamoto H, et al.

Nippon Kyobu Geka Gakkai Zasshi 1996 May;44(5):600–5 (Eng. Abstr.) **(Jpn)**

[Experimental and clinical assessment of myocardial protective effect of a prostacyclin analogue (OP 41483)] Kuki S, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):180–3 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Enhanced preservation of acutely ischemic myocardium and improved clinical outcomes using glucose–insulin–potassium (GIK) solutions. Lazar HL. **Am J Cardiol** 1997 Aug 4;80(3A):90A–93A (26 ref.)

Addition of alpha–ketoglutarate to blood cardioplegia improves cardioprotection. Kjellman UW, et al. **Ann Thorac Surg** 1997 Jun;63(6):1625–33; discussion 1634

Glucose–insulin–potassium solutions enhance recovery after urgent coronary artery bypass grafting. Lazar HL, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):354–60; discussion 360–2

Retrograde cardioplegia preserves myocardial function after induced coronary air embolism. Sandhu AA, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):917–22

CARDIOPULMONARY ARREST see **HEART ARREST**

CARDIOPULMONARY BYPASS

see related
HEART BYPASS, LEFT
HEART, MECHANICAL

Effects of three techniques of lung management on pulmonary function during cardiopulmonary bypass. Cogliati AA, et al. **Acta Anaesthesiol Belg** 1996;47(2):73–80

Serum soluble selectins in patients undergoing cardiopulmonary bypass. Relationship with circulating blood cells and inflammation–related cytokines. Diago MC, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):725–30

Pathophysiology of aortic cross–clamping. Gelman S. **Acta Anaesthesiol Scand Suppl** 1997;110:41–2

Detection of cerebral desaturation during cardiopulmonary bypass by cerebral oximetry [published erratum appears in Acta Anaesthesiol Sin 1997 Mar;35(1):59] Chen CS, et al. **Acta Anaesthesiol Sin** 1996 Dec;34(4):173–8

Changes of propofol levels in isolated cardiopulmonary bypass circuit. Su HB, et al. **Acta Anaesthesiol Sin** 1996 Mar;34(1):17–20

Special considerations in cardiopulmonary bypass. Utley JR, et al. **Adv Card Surg** 1996;7:87–100 (57 ref.)

Brain oxygenation monitoring during cardiopulmonary bypass by near infrared spectroscopy. De Blasi RA, et al. **Adv Exp Med Biol** 1997;413:97–104

The efficacy of pulse oxymetry in the postoperative respiratory management of cardiac patients. Tekinalp H, et al. **Adv Exp Med Biol** 1996;388:509–11

Hepatic release of interleukin–10 during cardiopulmonary bypass in steroid–pretreated patients. Wan S, et al. **Am Heart J** 1997 Mar;133(3):335–9

Effects of inhaled nitric oxide in patients with hypoxemia and pulmonary hypertension after cardiac surgery. Bender KA, et al. **Am J Crit Care** 1997 Mar;6(2):127–31

A possible role for L–selectin in the release of polymorphonuclear leukocytes from bone marrow. van Eeden SF, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1717–24

Amrinone versus dobutamine in cardiac surgical patients with severe pulmonary hypertension after cardiopulmonary bypass: a prospective, randomized double–blinded trial. Jenkins IR, et al. **Anaesth Intensive Care** 1997 Jun; 25(3):245–9

Thoracic epidural analgesia started after cardiopulmonary bypass. Adrenergic, cardiovascular and respiratory sequelae. Fawcett WJ, et al. **Anaesthesia** 1997 Apr; 52(4):294–9

Radial artery diameter decreases with increased femoral to radial arterial pressure gradient during cardiopulmonary bypass. Baba T, et al. **Anesth Analg** 1997 Aug;85(2):252–8

epsilon–Aminocaproic acid plasma levels during cardiopulmonary bypass. Bennett–Guerrero E, et al. **Anesth Analg** 1997 Aug;85(2):248–51

Maintenance of therapeutic plasma aprotinin levels during prolonged cardiopulmonary bypass using a large–dose regimen. Bennett–Guerrero E, et al. **Anesth Analg** 1996 Dec;83(6):1189–92

Hemofiltration during cardiopulmonary bypass: the effect on anti–Xa and anti–IIa heparin activity. Despotis GJ, et al. **Anesth Analg** 1997 Mar;84(3):479–83

Transcranial Doppler monitoring during cardiopulmonary bypass [letter; comment] Edmonds HL Jr. **Anesth Analg** 1996 Dec;83(6):1352–3. Comment on: Anesth Analg 1996 Jun;82(6):1146–51.

Increased pressures in the retrograde blood cardioplegia line: an unusual presentation of cold agglutinins during cardiopulmonary bypass. Fischer GD, et al. **Anesth Analg** 1997 Feb;84(2):454–6

The influence of cardiopulmonary bypass on ionized magnesium in neonates, infants, and children undergoing repair of congenital heart lesions. Fox ML, et al. **Anesth Analg** 1997 Mar;84(3):497–500

Cerebral ischemic disorders and cerebral oxygen balance during cardiopulmonary bypass surgery: preoperative evaluation using magnetic resonance imaging and angiography. Goto T, et al. **Anesth Analg** 1997 Jan; 84(1):5–11

Aprotinin reduces interleukin–8 production and lung neutrophil accumulation after cardiopulmonary bypass. Hill GE, et al. **Anesth Analg** 1996 Oct;83(4):696–700

The effect of milrinone on hemodynamics and left ventricular function after emergence from cardiopulmonary bypass. Kikura M, et al. **Anesth Analg** 1997 Jul;85(1):16–22

The effect of hypothermic cardiopulmonary bypass on plasma adrenomedullin in adult cardiac surgical patients. Nagata N, et al. **Anesth Analg** 1997 Jun;84(6):1193–7

Arterial pressure–flow relationship in patients undergoing cardiopulmonary bypass. Urzua J, et al. **Anesth Analg** 1997 May;84(5):958–63

Cardiopulmonary bypass in a patient with moyamoya disease. Wang N, et al. **Anesth Analg** 1997 May;84(5):1160–3

Recovery of systolic and diastolic left ventricular function early after cardiopulmonary bypass. De Hert SG, et al. **Anesthesiology** 1996 Nov;85(5):1063–75

Inflammatory cascade. A final common pathway for perioperative injury? [editorial; comment] Herskowitz A, et al. **Anesthesiology** 1996 Nov;85(5):957–60. Comment on: Anesthesiology 1996 Nov;85(5):965–76.

Intermittent reduction in myocardial perfusion causing ST segment oscillation after cardiopulmonary bypass [letter] Jain U. **Anesthesiology** 1997 Sep;87(3):710–1

Nitric–oxide–induced reoxygenation injury in the cyanotic immature heart is prevented by controlling oxygen content during initial reoxygenation. Ihnken K, et al. **Angiology** 1997 Mar;48(3):189–202

"Low–dose" aprotinin modifies hemostasis but not proinflammatory cytokine release. Ashraf S, et al. **Ann Thorac Surg** 1997 Jan;63(1):68–73

Endothelial cell injury in cardiovascular surgery: the systemic inflammatory response. Boyle EM Jr, et al. **Ann Thorac Surg** 1997 Jan;63(1):277–84 (62 ref.)

Myocardial protection and cardiopulmonary bypass in neonates and infants. del Nido PJ. **Ann Thorac Surg** 1997 Sep;64(3):878–9

The brain uses mostly dissolved oxygen during profoundly hypothermic cardiopulmonary bypass. Dexter F, et al. **Ann Thorac Surg** 1997 Jun;63(6):1725–9

Modified ultrafiltration after cardiopulmonary bypass in pediatric cardiac surgery. Draaisma AM, et al. **Ann Thorac Surg** 1997 Aug;64(2):521–5

Venous drainage to the heart–lung machine via the internal jugular vein. Flege JB Jr, et al. **Ann Thorac Surg** 1997 Mar; 63(3):861

Cooling gradients and formation of gaseous microemboli with cardiopulmonary bypass: an echocardiographic study. Geissler HJ, et al. **Ann Thorac Surg** 1997 Jul;64(1):100–4

Granulocyte phagocytic function is impaired during cardiopulmonary bypass. Hamano K, et al. **Ann Thorac Surg** 1996 Dec;62(6):1820–4

Both plasma– and leukocyte–associated C5a are essential for assessment of C5a generation in vivo. Hetland G, et al. **Ann Thorac Surg** 1997 Apr;63(4):1076–80

Time course of endothelin–1 and nitrate anion levels after cardiopulmonary bypass in congenital heart defects. Hiramatsu T, et al. **Ann Thorac Surg** 1997 Mar;63(3):648–52

Evaluation of brain oxygenation during selective cerebral perfusion by near–infrared spectroscopy. Katoh T, et al. **Ann Thorac Surg** 1997 Aug;64(2):432–6

Effect of aprotinin on plasma fibronectin levels during cardiopulmonary bypass. al Khudhairi DM, et al. **Ann Thorac Surg** 1997 Jan;63(1):64–7

Cardiopulmonary bypass in pregnancy [letter; comment] Kole SD, et al. **Ann Thorac Surg** 1997 Mar;63(3):915–6. Comment on: Ann Thorac Surg 1996 Jan;61(1):259–68.

Endothelin–1 and neutrophil activation during heparin–coated cardiopulmonary bypass. Lundblad R, et al. **Ann Thorac Surg** 1997 May;63(5):1361–7

Nitrous oxide method of measuring cerebral blood flow during hypothermic cardiopulmonary bypass. MacVeigh I, et al. **Ann Thorac Surg** 1997 Mar;63(3):736–40

Synergistic immunosuppression caused by high–dose methylprednisolone and cardiopulmonary bypass. Mayumi H, et al. **Ann Thorac Surg** 1997 Jan;63(1):129–37

Centrifugal pump and heparin coating improves cardiopulmonary bypass biocompatibility. Moen O, et al. **Ann Thorac Surg** 1996 Oct;62(4):1134–40

Reoperative coronary artery bypass without cardiopulmonary bypass. Mohr R, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S40–3

Primary coronary artery bypass grafting without cardiopulmonary bypass in impaired left ventricular function. Moshkovitz Y, et al. **Ann Thorac Surg** 1997 Jun; 63(6 Suppl):S44–7

Cerebral hypoxia during cardiopulmonary bypass: a magnetic resonance imaging study. Mutch WA, et al. **Ann Thorac Surg** 1997 Sep;64(3):695–701

Thoracic aortic operations: management of maldistribution of arterial flow during cardiopulmonary bypass. Najafi H, et al. **Ann Thorac Surg** 1997 Aug;64(2):565–7

Transcranial Doppler sonography and cerebral blood flow during cardiopulmonary bypass [letter] Nuttall GA, et al. **Ann Thorac Surg** 1997 Sep;64(3):891–2

Regional perfusion abnormalities with phenylephrine during normothermic bypass. O'Dwyer C, et al. **Ann Thorac Surg** 1997 Mar;63(3):728–35

Effect of cardiopulmonary bypass under tepid temperature on inflammatory reactions. Ohata T, et al. **Ann Thorac Surg** 1997 Jul;64(1):124–8

Coronary artery bypass grafting "on pump": role of three–day discharge. Ott RA, et al. **Ann Thorac Surg** 1997 Aug; 64(2):478–81

Heparinized cardiopulmonary bypass and full heparin dose marginally improve clinical performance. Ovrum E, et al. **Ann Thorac Surg** 1996 Oct;62(4):1128–33

The safety of CABG without cardiopulmonary bypass [letter; comment] Pfister AJ. **Ann Thorac Surg** 1997 Aug; 64(2):590–1. Comment on: Ann Thorac Surg 1996 Sep;62(3):945–6.

Antithrombin III, leukocyte activation, and low systemic heparinization [letter; comment] Ranucci M. **Ann Thorac Surg** 1997 Apr;63(4):1211–2. Comment on: Ann Thorac Surg 1995 Dec;60(6):1755–61.

Preoperative platelet dysfunction increases the benefit of aprotinin in cardiopulmonary bypass. Ray MJ, et al. **Ann Thorac Surg** 1997 Jan;63(1):57–63

Cardiopulmonary bypass alters vasomotor regulation of the skeletal muscle microcirculation. Stamler A, et al. **Ann Thorac Surg** 1997 Aug;64(2):460–5

Impact of systemic depulsation on tissue perfusion and sympathetic nerve activity. Toda K, et al. **Ann Thorac Surg** 1996 Dec;62(6):1737–42

Relative changes in cerebral blood flow during cardiac operations using xenon–133 clearance versus transcranial Doppler sonography. Trivedi UH, et al. **Ann Thorac Surg** 1997 Jan;63(1):167–74

Effect of heparin loading during congenital heart operation on thrombin generation and blood loss. Turner–Gomes SO, et al. **Ann Thorac Surg** 1997 Feb;63(2):482–8

Prevention of lower extremity ischemia during cardiopulmonary bypass via femoral cannulation. Vander Salm TJ. **Ann Thorac Surg** 1997 Jan;63(1):251–2

Cytokine responses to cardiopulmonary bypass: lessons learned from cardiac transplantation. Wan S, et al. **Ann Thorac Surg** 1997 Jan;63(1):269–76 (71 ref.)

Role of intraoperative autotransfusion after cardiopulmonary bypass [letter; comment] Whitten CW. **Ann Thorac Surg** 1997 May;63(5):1513–4. Comment on: Ann Thorac Surg 1996 Mar;61(3):900–3.

Heparin–coated cardiopulmonary bypass circuits in coronary bypass surgery. Horimoto H, et al. **Artif Organs** 1996 Aug; 20(8):936–40

Management of acute fulminant myocarditis using circulatory support systems. Reiss N, et al. **Artif Organs** 1996 Aug; 20(8):964–70

A clinical study for the durability of oxygenators on cardiopulmonary support. Usui A, et al. **Artif Organs** 1997 Jul;21(7):772–8

Experimental aortocoronary saphenous vein graft function after mechanical cardiac massage with the Anstadt Cup. Anstadt MP, et al. **ASAIO J** 1996 Jul–Aug;42(4):295–300

Changes in brain pH, PO2, PCO2, cerebral blood flow, and blood gases induced by a hyperosmolar oxyreplete hemosubstitute during cardiopulmonary bypass. Briceño JC, et al. **ASAIO J** 1997 Jan–Feb;43(1):13–8

Derivation of sieving coefficients to determine the efficacy of the hemoconcentrator in removal of four inflammatory mediators produced during cardiopulmonary bypass. Clar A, et al. **ASAIO J** 1997 May–Jun;43(3):163–70

Measurement of cytokine levels by coronary sinus blood sampling during cardiac surgery with cardiopulmonary bypass. Karube N, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M787–91

Partial cardiopulmonary bypass in rats for evaluating ischemia–reperfusion injury. Sasaki S, et al. **ASAIO J** 1996 Nov–Dec;42(6):1027–30

Analysis of clinical trends in a program of emergent ECLS for cardiovascular collapse. Willms DC, et al. **ASAIO J** 1997 Jan–Feb;43(1):65–8

Cardiopulmonary bypass using lomoparan: monitoring of anticoagulation using anti–Xa levels and thromboelastography. Sharma S, et al. **Aust N Z J Surg** 1997 Jun;67(6):392–4

Changes in cerebral hemodynamics and oxygenation during hypothermic cardiopulmonary bypass in neonates and infants. Van Bel F, et al. **Biol Neonate** 1996;70(3):141–54

Gut mucosal perfusion in infants undergoing cardiopulmonary bypass: effect of preoperative captopril. Booker PD, et al. **Br J Anaesth** 1997 Jul;79(1):14–8

Effect of hypothermia on rectal mucosal perfusion in infants undergoing cardiopulmonary bypass. Booker PD, et al. **Br J Anaesth** 1996 Nov;77(5):591–6

Gut mucosal perfusion in neonates undergoing cardiopulmonary bypass. Booker PD, et al. **Br J Anaesth** 1996 Nov;77(5):597–602

Cardiopulmonary bypass–induced changes in plasma concentrations of propofol and in auditory evoked potentials. Hammarén E, et al. **Br J Anaesth** 1996 Sep; 77(3):360–4

Occupational exposure to desflurane and isoflurane during cardiopulmonary bypass: is the gas outlet of the membrane oxygenator an operating theatre pollution hazard? Hoerauf K, et al. **Br J Anaesth** 1997 Apr;78(4):378–80

Evaluation of two warming systems after cardiopulmonary bypass. Janke EL, et al. **Br J Anaesth** 1996 Aug; 77(2):268–70

Effects of dopamine on oxygen consumption and gastric mucosal blood flow during cardiopulmonary bypass in humans. Karzai W, et al. **Br J Anaesth** 1996 Nov; 77(5):603–6

The effect of cardiopulmonary bypass on circulating

megakaryocytes. Wilde NT, et al. **Br J Haematol** 1997 Aug; 98(2):322–7
Depletion of activated neutrophils by a filter during cardiac valve surgery. Hurst T, et al. **Can J Anaesth** 1997 Feb; 44(2):131–9
Pharmacodynamics of doxacurium during cardiac surgery with hypothermic cardiopulmonary bypass. McDonagh P, et al. **Can J Anaesth** 1996 Feb;43(2):134–40
Ketamine concentrations during cardiopulmonary bypass. McLean RF, et al. **Can J Anaesth** 1996 Jun;43(6):580–4
Histamine release during cardiopulmonary bypass in neonates and infants. Withington DE, et al. **Can J Anaesth** 1997 Jun; 44(6):610–6
Enhancement of calcium cycling by atrial sarcoplasmic reticulum after cardiopulmonary bypass and cardioplegia during open heart surgery. O'Brien PJ, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):143–52
Direct transaortic balloon valvuloplasty under cardiopulmonary bypass for neonatal critical aortic stenosis. Nogi S, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):374–6
Thyroid hormone alterations during and after cardiopulmonary bypass. Keçeligil HT, et al. **Cardiovasc Surg** 1996 Oct;4(5):617–22
Continuous transoesophageal echocardiography monitoring during weaning from cardiopulmonary bypass in children. Ninomiya J, et al. **Cardiovasc Surg** 1997 Feb;5(1):129–33
Total arterial myocardial revascularization without cardiopulmonary bypass. Sani G, et al. **Cardiovasc Surg** 1996 Dec;4(6):825–9
Gastric intramucosal pH and hepatic venous oximetry after cardiopulmonary bypass in valve replacement patients. Takahashi T, et al. **Cardiovasc Surg** 1996 Jun;4(3):308–10
Release of lipopolysaccharide toxicity-modulating proteins in patients undergoing cardiopulmonary bypass using noncoated and heparin-coated extracorporeal circuits. A clinical pilot study. Bouma M, et al. **Chest** 1997 Mar; 111(3):577–83
Early vs conventional extubation after cardiac surgery with cardiopulmonary bypass. Reyes A, et al. **Chest** 1997 Jul; 112(1):193–201
Does the type of surgical operation influence the changes observed in fibrinolytic activity after cardiopulmonary bypass? [letter] Sánchez JM, et al. **Chest** 1997 Sep; 112(3):856–7
Strategies of myocardial protection during cardiac surgery. Hsi CC, et al. **Chin Med J (Engl)** 1996 Dec;109(12):903–8 (28 ref.)
Prevalence of heparin-associated antibodies without thrombosis in patients undergoing cardiopulmonary bypass surgery. Bauer TL, et al. **Circulation** 1997 Mar 4; 95(5):1242–6
Differential patterns of neutrophil adhesion molecules during cardiopulmonary bypass in humans. Galiñanes M, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II364–9
Intermittent whole-body perfusion with "somatoplegia' versus blood perfusate to extend duration of circulatory arrest. Miura T, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II56–62
Effect of perfusion pressure on cerebral blood flow during normothermic cardiopulmonary bypass. Newman MF, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II353–7
Monitoring considerations for port-access cardiac surgery. Siegel LC, et al. **Circulation** 1997 Jul 15;96(2):562–8
QEEG and neuropsychological profiles of patients after undergoing cardiopulmonary bypass surgical procedures. Chabot RJ, et al. **Clin Electroencephalogr** 1997 Apr; 28(2):98–105
QEEG and neuropsychological profiles of patients prior to undergoing cardiopulmonary bypass surgical procedures. Gugino LD, et al. **Clin Electroencephalogr** 1997 Apr; 28(2):87–97
Type B lactic acidosis following cardiopulmonary bypass. Raper RF, et al. **Crit Care Med** 1997 Jan;25(1):46–51
Endogenous nitric oxide production and atrial natriuretic peptide biological activity in infants undergoing cardiac operations. Seghaye MC, et al. **Crit Care Med** 1997 Jun; 25(6):1063–70
Release of interleukin 6 and activation of complement during and after paediatric cardiopulmonary bypass. Effect of autotransfusion of shed mediastinal blood and ultrafiltration. Saatvedt K, et al. **Cytokine** 1996 May; 8(5):417–20
Release of soluble tumour necrosis factor alpha receptors during and after paediatric cardiopulmonary bypass. Correlation with haemodynamic and clinical variables. Saatvedt K, et al. **Cytokine** 1996 Dec;8(12):944–8
Coronary artery bypass grafting without cardiopulmonary bypass--an attractive alternative in high risk patients. Bergsland J, et al. **Eur J Cardiothorac Surg** 1997 May; 11(5):876–80
Complement and neutrophil activation during cardiopulmonary bypass: a randomized comparison of hypothermic and normothermic circulation. Chello M, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):162–8
The relation between arterial oxygen tension and cerebral blood flow during cardiopulmonary bypass. Chow G, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):633–9
Protamine-induced fulminating non-cardiogenic pulmonary edema following cardiopulmonary bypass. Kindler C, et al. **Eur J Cardiothorac Surg** 1996;10(6):463–6
Patterns of changes in neutrophil adhesion molecules during normothermic cardiopulmonary bypass. A clinical study. Le Deist F, et al. **Eur J Cardiothorac Surg** 1996; 10(4):279–83
Minimally invasive coronary artery bypass grafting without cardiopulmonary bypass. Mariani MA, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):881–7
An imbalance in T-helper cell subsets alters immune response after cardiac surgery. Markewitz A, et al. **Eur J Cardiothorac Surg** 1996;10(1):61–7
Predictors of early and overall outcome in coronary artery bypass without cardiopulmonary bypass. Moshkovitz Y, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):31–9
Influence of hepatic mitochondrial redox state on complement biosynthesis and activation during and after cardiopulmonary bypass operations. Nomoto S, et al. **Eur J Cardiothorac Surg** 1996;10(4):273–8
Extensive resection with selective cerebral perfusion for a lung cancer invading the aortic arch. Okubo K, et al. **Eur J Cardiothorac Surg** 1996;10(5):389–91
A case report on the use of recombinant hirudin as an anticoagulant for cardiopulmonary bypass in open heart surgery. Riess FC, et al. **Eur J Cardiothorac Surg** 1996; 10(5):386–8
Aprotinin in aortic surgery requiring profound hypothermia and circulatory arrest. Rooney SJ, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):373–8
Comparison of myocardial revascularization without cardiopulmonary bypass to standard open heart technique in patients with left ventricular dysfunction. Sternik L, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):123–8
Hemostatic effects of three colloid plasma substitutes for priming solution in cardiopulmonary bypass. Tigchelaar I, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):626–32
Postoperative hemodynamics depend on cardiopulmonary bypass temperature: the potential role of endothelin-1. Tönz M, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):157–61
The effect of pentoxifylline on the lung during cardiopulmonary bypass. Türköz R, et al. **Eur J Cardiothorac Surg** 1996;10(5):339–46
Cardio-pulmonary-bypass time has important independent influence on mortality and morbidity. Wesselink RM, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1141–5
Surgical management of retroperitoneal tumors with vena caval thrombus in the inferior cava using cardiopulmonary bypass, arrested circulation and profound hypothermia. Rodríguez-Rubio FI, et al. **Eur Urol** 1997;32(2):194–7
Pediatric cardiopulmonary bypass: a review of current practice. Groom RC, et al. **Int Anesthesiol Clin** 1996 Spring;34(2):141–63 (90 ref.)
The inflammatory response to cardiopulmonary bypass. Hill GE. **Int Anesthesiol Clin** 1996 Spring;34(2):95–108 (106 ref.)
Renal considerations, dialysis, and ultrafiltration during cardiopulmonary bypass. Sutton RG. **Int Anesthesiol Clin** 1996 Spring;34(2):165–76 (42 ref.)
Cardiopulmonary by-pass in a patient with acquired C1 inhibitor deficiency. Castelli R, et al. **Int J Artif Organs** 1997 Mar;20(3):175–7
Evidence for morphine downregulating immunocytes during cardiopulmonary bypass in a porcine model. Bilfinger TV, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S39–46
Hyperstimulation of leukocytes by plasma from cardiopulmonary bypass patients is diminished by alpha-MSH pretreatment. Bilfinger TV, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S47–53
Aprotinin diminishes inflammatory processes. Soeparwata R, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S55–63
Delirium and cognitive disorders after cardiac operations: relationship to pre- and intraoperative quantitative electroencephalogram. Hofsté WJ, et al. **Int J Clin Monit Comput** 1997 Feb;14(1):29–36
Reduction in pulmonary microvascular pressure following cardiopulmonary bypass: beneficial effects of dobutamine. O-Yurvati AH, et al. **Int Surg** 1995 Jul–Sep;80(3):231–4
Influence of enoximone on systemic and splanchnic oxygen utilization and endotoxin release following cardiopulmonary bypass. Loick HM, et al. **Intensive Care Med** 1997 Mar;23(3):267–75
Use of the modified technique of ultrafiltration in pediatric open-heart surgery: a prospective study. Ad N, et al. **Isr J Med Sci** 1996 Dec;32(12):1326–31
Teicoplanin concentrations in serum, pericardium, pericardial fluid and thoracic wall fat in patients undergoing cardio-pulmonary bypass surgery. Miglioli PA, et al. **J Antimicrob Chemother** 1997 Feb;39(2):229–33
Cardiac surgery and plasma digoxin levels. Anaokar SM, et al. **J Assoc Physicians India** 1996 Oct;44(10):694–7
Blood ionized magnesium concentrations during cardiopulmonary bypass and their correlation with other circulating cations. Aziz S, et al. **J Card Surg** 1996 Sep–Oct; 11(5):341–7
The influence of a heparin-coated oxygenator during cardiopulmonary bypass on postoperative lung oxygenation capacity in pediatric patients with congenital heart anomalies. Watanabe H, et al. **J Card Surg** 1996 Nov–Dec; 11(6):396–401
Comparison of pulsatile versus nonpulsatile perfusion on the postcardiopulmonary bypass aortic-radial artery pressure gradient. Badner NH, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):428–31
Normothermic cardiopulmonary bypass. Bert AA, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):91–9 (65 ref.)
Effects on renal function of a continuous infusion of nifedipine during cardiopulmonary bypass. Bertolissi M, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):238–42
Hemodynamic instability and excessive vasoconstrictor use during cardiopulmonary bypass [letter] Charbonnet CJ, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):683
Failure of allopurinol to improve left ventricular stroke work after cardiopulmonary bypass surgery. Coetzee A, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):627–33
Significance of D-dimer concentrations during and after cardiopulmonary bypass [see comments] Comunale ME, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):477–81. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):537–8.
The effects of cardiopulmonary bypass on total and unbound plasma concentrations of propofol and midazolam. Dawson PJ, et al. **J Cardiothorac Vasc Anesth** 1997 Aug; 11(5):556–61
Age-related differences in heparin sensitivity and heparin-protamine interactions in cardiac surgery patients. D'Errico C, et al. **J Cardiothorac Vasc Anesth** 1996 Jun; 10(4):451–7
Methylprednisolone and full-dose aprotinin reduce reperfusion injury after cardiopulmonary bypass. Diego RP, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):29–31
A placebo-controlled trial verifying the efficacy of milrinone in weaning high-risk patients from cardiopulmonary bypass. Doolan LA, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):37–41
Con: heparin is not the best anticoagulant for cardiopulmonary bypass. Fitch JC. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):819–21
Impact of pleurotomy, continuous positive airway pressure, and fluid balance during cardiopulmonary bypass on lung mechanics and oxygenation. Gilbert TB, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):844–9
The influence of cardiopulmonary bypass on cytokines and cell-cell communication. Hill GE, et al. **J Cardiothorac Vasc Anesth** 1997 May;11(3):367–75 (162 ref.)
A human urinary protease inhibitor (ulinastatin) inhibits neutrophil extracellular release of elastase during cardiopulmonary bypass. Hiyama A, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):580–4
Biocompatibility in cardiopulmonary bypass. Hsu LC. **J Cardiothorac Vasc Anesth** 1997 May;11(3):376–82 (79 ref.)
Model-driven closed-loop feedback infusion of atracurium and vecuronium during hypothermic cardiopulmonary bypass. Kansanaho M, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):58–61
The activated coagulation time: suitability for monitoring heparin effect and neutralization during pediatric cardiac surgery. Martindale SJ, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):458–63
Pro: a hematocrit of 20% is adequate to wean a patient from cardiopulmonary bypass. Martineau RJ. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):291–3
The role of the protein C-thrombomodulin system and fibrinolysis during cardiovascular surgery: influence of acute preoperative plasmapheresis. Menges T, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):482–9
Methylene blue does not neutralize heparin after cardiopulmonary bypass. Metz S, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):474–6
Con: a hematocrit of 20% is not adequate for separation from cardiopulmonary bypass. Mossad E, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):294–5
The association among gastric mucosal pH, endotoxemia, and low systemic vascular resistance after cardiopulmonary bypass. Myles P, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):195–200
Endogenous nitric oxide and low systemic vascular resistance after cardiopulmonary bypass. Myles PS, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):571–4
Anticoagulation for cardiopulmonary bypass of a patient with "heparin allergy". Ochroch E, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):622–4
Perfusion safety: past, present, and future. Palanzo DA. **J Cardiothorac Vasc Anesth** 1997 May;11(3):383–90 (96 ref.)
Neutrophil expression of CD11b/CD18 and IL-8 secretion during normothermic cardiopulmonary bypass. Paugam C, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):575–9
Pro: heparin is the best anticoagulant for cardiopulmonary bypass. Rinder CS. **J Cardiothorac Vasc Anesth** 1996 Oct; 10(6):816–8
Effects of desflurane and isoflurane on systemic vascular resistance during hypothermic cardiopulmonary bypass. Rödig G, et al. **J Cardiothorac Vasc Anesth** 1997 Feb; 11(1):54–7
Elimination of drugs and toxins during cardiopulmonary bypass. Rosen DA, et al. **J Cardiothorac Vasc Anesth** 1997 May;11(3):337–40 (38 ref.)
Orgaran (Org 10172) for cardiopulmonary bypass in heparin-induced thrombocytopenia: role of adjunctive plasmapheresis [letter; comment] Schmahl KS, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):262–3. Comment on: J Cardiothorac Vasc Anesth 1996 Jun;10(4):521–30.
Hematologic changes in a patient with heparin-induced thrombocytopenia who underwent cardiopulmonary bypass after ancrod defibrinogenation. Spiess BD, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):918–21

Acid-base regulation, alpha-stat, and the emperor's new clothes. Tallman RD Jr. **J Cardiothorac Vasc Anesth** 1997 May;11(3):282–8 (52 ref.)

Bolus administration of eltanolone, thiopental, or etomidate does not affect systemic vascular resistance during cardiopulmonary bypass. Tassani P, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):562–4

Perioperative course and recovery after heparin-coated cardiopulmonary bypass: low-dose versus high-dose heparin management. Weiss BM, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):464–70

Does D-dimer formation in patients undergoing cardiopulmonary bypass (CPB) reflect primary fibrinolysis? [letter; comment] Whitten CW. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):537–8. Comment on: J Cardiothorac Vasc Anesth 1996 Jun;10(4):477–81.

Proceedings of the 1st annual meeting of the Cardiopulmonary Bypass Consensus Panel. Napa Valley, California, October 19–21, 1994. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:v–vii, S1–70 (0 ref.)

The effects of cardiopulmonary bypass on fibrin formation and lysis: is a normal fibrinolytic response essential? Chandler W. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:S63–8 (37 ref.)

Cardiopulmonary bypass procedures in patients with cold-reactive hemagglutination. A case report and a literature review. Ko W, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):623–6 (15 ref.)

Continuous jugular venous versus nasopharyngeal temperature monitoring during hypothermic cardiopulmonary bypass for cardiac surgery. Grocott HP, et al. **J Clin Anesth** 1997 Jun;9(4):312–6

The effects of forced-air warming on postbypass central and skin temperatures and shivering activity. Mort TC, et al. **J Clin Anesth** 1996 Aug;8(5):361–70

The use of the iSTAT portable analyzer in patients undergoing cardiopulmonary bypass. Connelly NR, et al. **J Clin Monit** 1996 Jul;12(4):311–5

Anti-CD18 antibodies improve cardiac function following cardiopulmonary bypass in dogs. Mayers I, et al. **J Crit Care** 1996 Dec;11(4):189–96

Cardiopulmonary bypass during single lung transplantation [letter; comment] Loubser PG. **J Heart Lung Transplant** 1997 Jun;16(6):686–7. Comment on: J Heart Lung Transplant 1995 Jul–Aug;14(4):692–8.

Post-transfusion hepatitis type B following multiple transfusions of HBsAg-negative blood. Saraswat S, et al. **J Hepatol** 1996 Nov;25(5):639–43

Investigation into the repeated recovery of coagulase-negative staphylococci from blood taken at the end of cardiopulmonary by-pass. van Belkum A, et al. **J Hosp Infect** 1995 Dec;31(4):285–93

Platelet activating factor and thromboxane B2 production after cardiopulmonary bypass. Ansley DM, et al. **J Invest Surg** 1997 May–Jun;10(3):87–95

Aging, immunity, and cardiopulmonary bypass surgery: adding insult to injury [editorial; comment] Peterson PK. **J Lab Clin Med** 1997 Jun;129(6):578–9 (9 ref.). Comment on: J Lab Clin Med 1997 Jun;129(6):592–602.

Lymphocyte and monocyte subset changes during cardiopulmonary bypass: effects of aging and gender [see comments] Rinder CS, et al. **J Lab Clin Med** 1997 Jun;129(6):592–602. Comment in: J Lab Clin Med 1997 Jun;129(6):578–9.

Feasibility of SPECT for studies of brain perfusion during cardiopulmonary bypass. Marochnik S, et al. **J Neuroimaging** 1996 Oct;6(4):243–5

Jugular bulb oxygen saturation and middle cerebral blood flow velocity during cardiopulmonary bypass. von Knobelsdorff G, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):128–33

Monocyte tissue factor expression, cell activation, and thrombin formation during cardiopulmonary bypass: a clinical study. Ernofsson M, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):576–84

Contribution of hyperoxia to lipid peroxidation in coronary artery operations: should we keep a low oxygen tension? Hadjinikolaou L, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):212–3

Cerebral dysfunction after coronary artery bypass grafting done with mild or moderate hypothermia. Heyer EJ, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):270–7

Tirofiban provides "platelet anesthesia" during cardiopulmonary bypass in baboons. Hiramatsu Y, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):182–93

Combined suppressive effect of cardiopulmonary bypass and aging on cell-mediated immunity. Hisatomi K, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):140–1

Hyperoxic cardiopulmonary bypass causes reoxygenation injury and lipid peroxidation [letter] Ihnken K. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):304–6

Cerebral oxygenation during cardiopulmonary bypass in children. Kurth CD, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):71–8; discussion 78–9

Hepatic blood flow during cardiopulmonary bypass operations: the effect of temperature and pulsatility. Mathie RT, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):292–3

Alpha-stat acid-base regulation during cardiopulmonary bypass [letter; comment] Murkin JM. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):619–20. Comment on: J Thorac Cardiovasc Surg 1996 Jun;111(6):1267–79.

Complement activation by heparin-protamine complexes during cardiopulmonary bypass: effect of C4A null allele. Shastri KA, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):482–8

Interleukin-10 concentration in children undergoing cardiopulmonary bypass [letter] Sugita T, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1127–8

Leukocyte and platelet depletion with a blood cell separator [letter; comment] Taggart DP. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1406. Comment on: J Thorac Cardiovasc Surg 1996 Jan;111(1):45–54.

Peritoneal dialysis in children after cardiopulmonary bypass. Werner HA, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):64–8; discussion 68–70

The observation of complement activation and polymorphonuclear neutrocytopenia during cardiopulmonary bypass. Wang D, et al. **J Tongji Med Univ** 1996;16(2):99–102

Preoperative autologous blood donation and plateletpheresis in patients undergoing elective cardiac operations—factors that influence the need for homologous blood transfusion. Iguchi A, et al. **Jpn Circ J** 1997 Mar;61(3):236–40

Evaluation of fetal and uterine hemodynamics during maternal cardiopulmonary bypass. Khandelwal M, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):667–71

Successful weaning from cardiopulmonary bypass after cardiac surgery using inhaled nitric oxide. Bichel T, et al. **Paediatr Anaesth** 1997;7(4):335–9

Cerebral oxygenation measured by near infrared spectroscopy during cardiopulmonary bypass and deep hypothermic circulatory arrest in piglets. Nomura F, et al. **Pediatr Res** 1996 Dec;40(6):790–6

The systemic inflammatory response to cardiopulmonary bypass. Proceedings of the Hammersmith Perfusion Workshop 1995. **Perfusion** 1996 May;11(3):175–290

Cerebral monitoring during cardiopulmonary bypass. Ali MI, et al. **Perfusion** 1996 Jul;11(4):299–312 (43 ref.)

Clinical outcome after coronary surgery with heparin-coated extracorporeal circuits for cardiopulmonary bypass. Baufreton C, et al. **Perfusion** 1996 Nov;11(6):437–43

Cardiopulmonary bypass support for treatment of left ventricular failure following coronary artery bypass grafting: the effects on epicardial microflow and graft flow. Chen Y, et al. **Perfusion** 1996 Sep;11(5):407–14

Neurone-specific enolase and Sangtec 100 assays during cardiac surgery: Part I—The effects of heparin, protamine and propofol. Gao F, et al. **Perfusion** 1997 May;12(3):163–5

Neurone-specific enolase and Sangtec 100 assays during cardiac surgery: Part III—Dose haemolysis affect their accuracy? Gao F, et al. **Perfusion** 1997 May;12(3):171–7

Complement consumption during cardiopulmonary bypass: comparison of Duraflo II heparin-coated and uncoated circuits in fully heparinized patients. Hamulu A, et al. **Perfusion** 1996 Jul;11(4):333–7

Platelet membrane receptors during short cardiopulmonary bypass—a flow cytometric study. Holada K, et al. **Perfusion** 1996 Sep;11(5):401–6

Cardiopulmonary bypass and the adaptive immune system: perspectives on T cell function. Hornick P. **Perfusion** 1996 May;11(3):281–90 (58 ref.)

The School of Clinical Perfusion Sciences. Imms FJ. **Perfusion** 1997 Jul;12(4):247–9

Fingertip temperature during cardiopulmonary bypass. Johnson J, et al. **Perfusion** 1997 Mar;12(2):120–6

Effects of cardiopulmonary bypass on systemic vascular resistance. Kam PC, et al. **Perfusion** 1996 Jul;11(4):346–50

Clinical evidence of improved biocompatibility using heparin-coated surfaces. Matheve C. **Perfusion** 1996 May;11(3):264–9 (14 ref.)

The acute phase response to cardiopulmonary bypass in children. Mitchell IM, et al. **Perfusion** 1996 Mar;11(2):103–12

The use of a load cell for continuous cardiotomy reservoir level measurement during cardiopulmonary bypass. Montano SR, et al. **Perfusion** 1996 Jul;11(4):319–25

Perfusion education in the USA. Plunkett PF. **Perfusion** 1997 Jul;12(4):233–41

The activated clotting time loading dose response ratio (ACTLORR) as an indicator of heparin demand during cardiopulmonary bypass. Reece IJ, et al. **Perfusion** 1996 Mar;11(2):125–30

Efficacy and safety of aprotinin in aortocoronary bypass and valve replacement operations: a placebo-controlled randomized double-blind study. Rodrigus IE, et al. **Perfusion** 1996 Jul;11(4):313–8

Neurone-specific enolase and Sangtec 100 assays during cardiac surgery: Part II—Must samples be spun within 30 min? Sapsed-Byrne S, et al. **Perfusion** 1997 May;12(3):167–9

Complement activation during and after open-heart surgery is only marginally affected by the choice of fluid for volume replacement. Svennevig JL, et al. **Perfusion** 1996 Jul;11(4):326–32

Laboratory studies of the effect of Pall extracorporeal leucocyte filters LG6 and AV6 on patients undergoing coronary bypass grafts. Thurlow PJ, et al. **Perfusion** 1996 Jan;11(1):29–37

Profound accidental hypothermia in the deep South: clinical experience. Tyndal CM Jr, et al. **Perfusion** 1996 Jan;11(1):57–60

Perfusion education and certification in Europe. von Segesser LK. **Perfusion** 1997 Jul;12(4):243–6

Surface coating of cardiopulmonary bypass circuits. von Segesser LK. **Perfusion** 1996 May;11(3):241–5

Single pump mechanically aspirated venous drainage (SPMAVD) for cardiac reoperation [letter; comment] Wallock M, et al. **Perfusion** 1996 Jul;11(4):351–3. Comment on: Perfusion 1995 Sep;10(5):327–32.

Evaluation of Carmeda bioactive surface (CBAS), Duraflo II and a novel nonspecific protease-modified surface using a new in vitro model simulating cardiopulmonary bypass. Yii M, et al. **Perfusion** 1996 May;11(3):229–40

Release of interleukin-8 and calprotectin during and after paediatric cardiopulmonary bypass with and without ultrafiltration. Saatvedt K, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(2):53–9

Depressed thyroid function following paediatric cardiopulmonary bypass: association with interleukin-6 release? Saatvedt K, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(2):61–4

Indications and problems of coronary artery bypass grafting without cardiopulmonary bypass. Kondo K, et al. **Surg Today** 1997;27(3):202–6

Aprotinin is associated with a decrease in nitric oxide production during cardiopulmonary bypass. Hill GE, et al. **Surgery** 1997 Apr;121(4):449–55

Unaccounted blood loss in operations using cardiopulmonary bypass. Romagnoli A, et al. **Tex Heart Inst J** 1997;24(1):35–7

Treating Yeltsin. BeSaw L. **Tex Med** 1997 Apr;93(4):51–4

Assessment of metabolic liver function and hepatic blood flow during cardiopulmonary bypass. Autschbach R, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):76–80

Heparin ablates force development during platelet mediated clot retraction. Carr ME Jr, et al. **Thromb Haemost** 1996 Apr;75(4):674–8

Coagulation and fibrinolytic profile of paediatric patients undergoing cardiopulmonary bypass [published erratum appears in Thromb Haemost 1997 May;77(5):1047] Chan AK, et al. **Thromb Haemost** 1997 Feb;77(2):270–7

Monitoring of r-hirudin anticoagulation during cardiopulmonary bypass—assessment of the whole blood ecarin clotting time. Pötzsch B, et al. **Thromb Haemost** 1997 May;77(5):920–5

A comparison of thromboelastography with heparinase or protamine sulfate added in vitro during heparinized cardiopulmonary bypass. Spiess BD, et al. **Thromb Haemost** 1997 Aug;78(2):820–6

Aprotinin has no effect on platelet activation and adhesion during cardiopulmonary bypass. Wahba A, et al. **Thromb Haemost** 1996 May;75(5):844–8

Monitoring thrombin generation with prothrombin fragment 1.2 assay during cardiopulmonary bypass surgery. Knudsen L, et al. **Thromb Res** 1996 Oct 1;84(1):45–54

[Potassium metabolism in warm heart surgery] Zhen W, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):614–7 (Eng. Abstr.) **(Chi)**

[Minimally invasive myocardial revascularization. Initial experience with myocardial revascularization without extracorporeal circulation] Hájek T, et al. **Rozhl Chir** 1996 Jun;75(6):281–5 (Eng. Abstr.) **(Cze)**

[NO inhalation in heart surgery procedures: relevance for right heart function?] Knothe C, et al. **Anaesthesist** 1996 Mar;45(3):240–8 (Eng. Abstr.) **(Ger)**

[Heart surgery with cardiopulmonary bypass in patients on chronic dialysis treatment: our experience] Galli R, et al. **G Ital Cardiol** 1996 Sep;26(9):1025–30 (Eng. Abstr.) **(Ita)**

[Weaning in cardiopulmonary bypass patients with compromised cardiac function. Comparison of enoximone and dopamine] Menichetti A, et al. **Minerva Anestesiol** 1997 Jan–Feb;63(1–2):1–8 (Eng. Abstr.) **(Ita)**

[The combined resection of left atrium for advanced lung cancer on cardiopulmonary bypass: a case report] Kugai T, et al. **Kyobu Geka** 1996 Aug;49(9):738–41 (41 ref.) (Eng. Abstr.) **(Jpn)**

[A case of ASD with SLE treated with Carmeda BioActive surface circuit in cardiopulmonary bypass system] Toda R, et al. **Kyobu Geka** 1996 May;49(5):389–91 (Eng. Abstr.) **(Jpn)**

[A successful removal of T4 lung cancer with its left atrial extension using cardiopulmonary bypass] Yamamoto M, et al. **Kyobu Geka** 1997 Feb;50(2):110–3 (Eng. Abstr.) **(Jpn)**

[A clinical evaluation of the Hepcon/HMS: a new device of monitoring hemostasis management during cardiopulmonary bypass] Yamanishi H, et al. **Kyobu Geka** 1997 Jun;50(6):459–62 (Eng. Abstr.) **(Jpn)**

[Continuous monitoring of blood volume change by measuring hematocrit during cardiopulmonary bypass] Horibe M, et al. **Masui** 1996 Feb;45(2):189–93 (Eng. Abstr.) **(Jpn)**

[Assessment of cardiac functions in patients for coronary artery bypass graft using transesophageal echocardiography before and after cardiopulmonary bypass] Kadoi Y, et al. **Masui** 1996 Jun;45(6):676–80 (Eng. Abstr.) **(Jpn)**

[Usefulness of brachial artery pressure with forearm compression as arterial pressure monitoring after cardiopulmonary bypass] Katsuno M. **Masui** 1996 Jan;45(1):77–81 (Eng. Abstr.) **(Jpn)**

[Anesthesia combined with profound hypothermia using

cardiopulmonary bypass for clipping of giant basilar artery aneurysm] Kawamata T, et al. **Masui** 1996 Nov; 45(11):1388–92 (Eng. Abstr.) **(Jpn)**

[Anesthetic managements for pericardiectomy of three patients with constrictive pericarditis] Kurokawa S, et al. **Masui** 1997 Apr;46(4):515–20 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Cardiac surgery using cardiopulmonary bypass in a patient with sickle-cell trait] Ohashi Y, et al. **Masui** 1996 Oct; 45(10):1269–71 (Eng. Abstr.) **(Jpn)**

[Aortic dissection after weaning from extracorporeal circulation] Ohashi Y, et al. **Masui** 1996 Oct;45(10):1281–4 (Eng. Abstr.) **(Jpn)**

[Comparison of cerebral oxygen metabolism during normothermic versus moderate hypothermic cardiopulmonary bypass] Ohnishi Y, et al. **Masui** 1996 Feb; 45(2):153–9 (Eng. Abstr.) **(Jpn)**

[Effect of aprotinin on endothelial cell functions during cardiopulmonary bypass] Takaori M, et al. **Masui** 1996 Aug;45(8):928–32 (Eng. Abstr.) **(Jpn)**

[Activation of endothelium in cardiac surgery: the circulating levels of soluble E-selectin as a marker of the activation of endothelium] Yamada H, et al. **Masui** 1997 Apr; 46(4):478–83 (Eng. Abstr.) **(Jpn)**

[An experimental study of a newly developed silicone coated membrane oxygenator] Iida M.
Nippon Kyobu Geka Gakkai Zasshi 1997 May;45(5):700–10 (Eng. Abstr.) **(Jpn)**

[Aprotinin reduces homologous blood transfusions when pediatric cardiac surgery must be redone] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):1980–5 (Eng. Abstr.) **(Jpn)**

[Coronary artery bypass grafting under the beating heart in a patient with insufficient cardiopulmonary bypass] Okamura Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2104–8 (Eng. Abstr.) **(Jpn)**

[Open heart surgery without homologous blood transfusion for tetralogy of Fallot—use of hydroxyethyl starch diminishes the necessity of protein transfusion] Takahashi Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May; 45(5):694–9 (Eng. Abstr.) **(Jpn)**

[Successful surgical repair of composite graft detachment occurred 5 months after combined Bentall's operation and graft replacement with active aortitis syndrome] Tanaka S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan; 45(1):67–72 (Eng. Abstr.) **(Jpn)**

[Arterial-venous carbon dioxide tension difference after hypothermic cardiopulmonary bypass] Utoh J, et al.
Nippon Kyobu Geka Gakkai Zasshi 1997 May;45(5):679–81 (Eng. Abstr.) **(Jpn)**

[Clinical application and management of assisted circulation in the treatment of cardiogenic shock] Kodama K, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10;85(1):82–7 (10 ref.) **(Jpn)**

[Assessing the probability of hypoxic complications in cardiosurgery patients using statistical simulation of hypoxia] Mikhailov IuM, et al. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):15–7 (Eng. Abstr.) **(Rus)**

[Hyperamylasemia after cardiac surgery in children] Torre Rodríguez I, et al. **An Esp Pediatr** 1997 Feb;46(2):156–60 (Eng. Abstr.) **(Spa)**

[Activity of ondansetron on the systemic vascular resistance and venous capacitance during cardiopulmonary bypass] Sánchez-Peña J, et al. **Rev Esp Anestesiol Reanim** 1996 Oct;43(8):269–71 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Cerebral oxygenation during cardiopulmonary bypass. Harris DN. **Adv Exp Med Biol** 1996;388:41–4

Oxygen supply during cardiopulmonary bypass (CPB) in cyanotic patients. Tekinalp H, et al. **Adv Exp Med Biol** 1996;388:505–8

Does the platelet-activated clotting test (HemoSTATUS) predict blood loss and platelet dysfunction associated with cardiopulmonary bypass? Ereth MH, et al.
Anesth Analg 1997 Aug;85(2):259–64

The systemic inflammatory response to cardiopulmonary bypass: pathophysiological, therapeutic, and pharmacological considerations. Hall RI, et al.
Anesth Analg 1997 Oct;85(4):766–82 (161 ref.)

Immediate-early gene expression in ovine brain after cardiopulmonary bypass and hypothermic circulatory arrest. Bokesch PM, et al. **Anesthesiology** 1996 Dec; 85(6):1439–46

The influence of myocardial temperature on stunning following coronary revascularization. Engelman RM, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:319–27

Prevention of post-pump myocardial dysfunction by glutathione. Prasad K, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:400–13

Lower limb ischemia with compartment syndrome related to femoral artery cannulas [letter] Alameddine AK.
Ann Thorac Surg 1997 Sep;64(3):884–5

Coronary sinus thrombosis after cannulation during cardiopulmonary bypass. Bapat VN, et al.
Ann Thorac Surg 1996 Nov;62(5):1506–7

Endothelial cell injury in cardiovascular surgery: the procoagulant response. Boyle EM Jr, et al.
Ann Thorac Surg 1996 Nov;62(5):1549–57 (54 ref.)

Extracardiac Fontan operation without cardiopulmonary bypass. Burke RP, et al. **Ann Thorac Surg** 1997 Apr; 63(4):1175–7

Perfluorocarbon emulsion in the cardiopulmonary bypass prime reduces neurologic injury. Cochran RP, et al.
Ann Thorac Surg 1997 May;63(5):1326–32

Late true aneurysm after bypass grafting for long aortic coarctation. Fujita T, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1511–3 (10 ref.)

Mediastinal bleeding after cardiopulmonary bypass in pediatric patients. Guay J, et al. **Ann Thorac Surg** 1996 Dec;62(6):1955–60 (30 ref.)

Treatment of excessive mediastinal bleeding after cardiopulmonary bypass. Hartstein G, et al.
Ann Thorac Surg 1996 Dec;62(6):1951–4

Spinal cord infarct after arterial switch associated with an umbilical artery catheter. Lemke RP, et al.
Ann Thorac Surg 1996 Nov;62(5):1532–4

Simple system for deairing the heart after cardiopulmonary bypass. Salzano RP Jr, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1537–8

Low-flow cardiopulmonary bypass produces greater pulmonary dysfunction than circulatory arrest. Skaryak LA, et al. **Ann Thorac Surg** 1996 Nov;62(5):1284–8

Magnesium deficiency and cardiogenic shock after cardiopulmonary bypass. Storm W, et al.
Ann Thorac Surg 1997 Aug;64(2):572–7 (60 ref.)

Ventricular tachycardia after ultrafiltration during cardiopulmonary bypass [letter] Terada Y, et al.
Ann Thorac Surg 1997 Apr;63(4):1215–6

Nafamostat mesilate reduces blood-foreign surface reactions similar to biocompatible materials. Usui A, et al.
Ann Thorac Surg 1996 Nov;62(5):1404–11

Prevention of remote organ injury in cardiopulmonary bypass: the impact of flow generation technique. Hyde JA, et al. **Artif Organs** 1997 Jul;21(7):825–9

Hemolytic characteristics of a pivot bearing supported Gyro centrifugal pump (C1E3) simulating various clinical applications. Takami Y, et al. **Artif Organs** 1996 Sep; 20(9):1042–9

Effect of surface roughness on hemolysis in a pivot bearing supported Gyro centrifugal pump (C1E3). Takami Y, et al. **Artif Organs** 1996 Nov;20(11):1155–61

Reduction of blood activation in patients receiving aprotinin during cardiopulmonary bypass for coronary artery surgery. Baufreton C, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M417–23

Derivation of sieving coefficients to determine the efficacy of the hemoconcentrator in removal of four inflammatory mediators produced during cardiopulmonary bypass. Clar A, et al. **ASAIO J** 1997 May–Jun;43(3):163–70

Molecular biology of nitric oxide synthases. Reduction of complications of cardiopulmonary bypass from platelets and neutrophils by nitric oxide generation from L-arginine and nitric oxide donors. Dewanjee MK. **ASAIO J** 1997 May–Jun;43(3):151–9 (64 ref.)

Emboli from an extraluminal blood flow hollow fiber oxygenator with and without an arterial filter during cardiopulmonary bypass in a pig model. Dewanjee MK, et al. **ASAIO J** 1996 Nov–Dec;42(6):1010–8

Pentoxifylline preloading reduces endothelial injury and permeability in cardiopulmonary bypass. Tsang GM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M429–34

Haemostatic changes in the pulmonary blood during cardiopulmonary bypass. Cardigan RA, et al.
Blood Coagul Fibrinolysis 1996 Jul;7(5):567–77

Effect of temperature during cardiopulmonary bypass on gastric mucosal perfusion. Croughwell ND, et al.
Br J Anaesth 1997 Jan;78(1):34–8

Severe bronchospasm during cardiopulmonary bypass. Ecoff SA, et al. **Can J Anaesth** 1996 Dec;43(12):1244–8 (26 ref.)

Superoxide dismutase and catalase in protection of cardiopulmonary bypass-induced cardiac dysfunction and cellular injury. Prasad K, et al. **Can J Cardiol** 1996 Oct; 12(10):1083–91

Impact of triiodothyronine on the survival of high-risk patients undergoing open heart surgery. Novitzky D, et al. **Cardiology** 1996 Nov–Dec;87(6):509–15

Plasma endothelin-1 levels in adult patients undergoing coronary revascularization. St. Rammos K, et al.
Cardiovasc Surg 1996 Dec;4(6):808–12

Inflammatory response to cardiopulmonary bypass: mechanisms involved and possible therapeutic strategies. Wan S, et al. **Chest** 1997 Sep;112(3):676–92 (235 ref.)

Post-cardiopulmonary bypass pulmonary hypertension in lambs with increased pulmonary blood flow. A role for endothelin 1. Reddy VM, et al. **Circulation** 1997 Feb 18; 95(4):1054–61

Aprotinin inhibits plasmin-induced platelet activation during cardiopulmonary bypass. Shigeta O, et al. **Circulation** 1997 Jul 15;96(2):569–74

Effects of pentastarch-deferoxamine conjugate on lung injury after cardiopulmonary bypass. Stamler A, et al.
Circulation 1996 Nov 1;94(9 Suppl):II358–63

Renal insufficiency in neonates after cardiac surgery. Asfour B, et al. **Clin Nephrol** 1996 Jul;46(1):59–63

Increased plasma concentrations of serum amyloid A: an indicator of the acute-phase response after cardiopulmonary bypass. Berendes E, et al.
Crit Care Med 1997 Sep;25(9):1527–33

Thyroid function in infants following cardiac surgery: comparative effects of iodinated and noniodinated topical antiseptics. Brogan TV, et al. **Crit Care Med** 1997 Sep; 25(9):1583–7

Extracorporeal circulation increases nitric oxide-induced methemoglobinemia in vivo and in vitro. Dötsch J, et al.
Crit Care Med 1997 Jul;25(7):1153–8

Pulmonary vascular permeability after cardiopulmonary bypass and its relationship to oxidative stress. Messent M, et al. **Crit Care Med** 1997 Mar;25(3):425–9

Respiratory dysfunction and white cell activation following cardiopulmonary bypass: comparison of membrane and bubble oxygenators. Martin W, et al.
Eur J Cardiothorac Surg 1996;10(9):774–83

Cardiopulmonary bypass leads to a preferential loss of activated platelets. A flow cytometric assay of platelet surface antigens. Wahba A, et al.
Eur J Cardiothorac Surg 1996;10(9):768–73

Gastrointestinal complications after cardiac surgery [see comments] Yilmaz AT, et al. **Eur J Cardiothorac Surg** 1996; 10(9):763–7. Comment in: Eur J Cardiothorac Surg 1997 May;11(5):1001.

Evaluation of acute ischemic mitral regurgitation following cardiopulmonary bypass assessed by biplane transesophageal echocardiography. Nakao T, et al.
Hiroshima J Med Sci 1997 Mar;46(1):1–10

Prolonged granulocyte activation, as well as hypoxanthine and free radical production after open heart surgery in children. Pesonen EJ, et al. **Intensive Care Med** 1996 May; 22(5):500–6

Gastrointestinal permeability following cardiopulmonary bypass: a randomised study comparing the effects of dopamine and dopexamine [see comments] Sinclair DG, et al. **Intensive Care Med** 1997 May;23(5):510–6. Comment in: Intensive Care Med 1997 May;23(5):489–92.

Intravascular thrombosis after exsanguination in a patient treated with epsilon-aminocaproic acid. Haddy SM, et al.
J Cardiothorac Vasc Anesth 1996 Jun;10(4):510–2

Sudden hyperkalemia during cardiopulmonary bypass with hypothermic cardiac arrest in an infant. Ivens D, et al.
J Cardiothorac Vasc Anesth 1996 Feb;10(2):258–60

Continuous urine oxygen tension monitoring in patients undergoing cardiac surgery. Kainuma M, et al.
J Cardiothorac Vasc Anesth 1996 Aug;10(5):603–8

The inflammatory response to cardiopulmonary bypass. Miller BE, et al. **J Cardiothorac Vasc Anesth** 1997 May; 11(3):355–66 (149 ref.)

Cardiopulmonary bypass and the inflammatory response: a role for serine protease inhibitors? Murkin JM.
J Cardiothorac Vasc Anesth 1997 Apr;11(2 Suppl 1):19–23; discussion 24–5 (35 ref.)

Hyperglycemia during hypothermic cardiopulmonary bypass does not alter postbypass vascular endothelial responses in dogs. O'Dwyer C, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):614–8

Case 5—1996. Thrombosis after the use of a heparin-coated cardiopulmonary bypass circuit in a patient with heparin-induced thrombocytopenia [clinical conference] Van Dyck MJ, et al. **J Cardiothorac Vasc Anesth** 1996 Oct; 10(6):809–15

Case 3—1996. Unusual cause of hypotension after cardiopulmonary bypass [clinical conference] Zavela NG, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):553–6

Initiation of white cell activation during cardiopulmonary bypass: cytokines and receptors. Cameron D.
J Cardiovasc Pharmacol 1996;27 Suppl 1:S1–5 (12 ref.)

Restoration of the normal coagulation process: advances in therapies to antagonize heparin. D'Ambra M.
J Cardiovasc Pharmacol 1996;27 Suppl 1:S58–62 (40 ref.)

Reducing thrombin formation during cardiopulmonary bypass: is there a benefit of the additional anticoagulant action of aprotinin? Dietrich W.
J Cardiovasc Pharmacol 1996;27 Suppl 1:S50–7 (53 ref.)

Amplification of the inflammatory response: adhesion molecules associated with platelet/white cell responses. Rinder C, et al. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:S6–12 (41 ref.)

Serine protease inhibition prevents both cellular and humoral responses to cardiopulmonary bypass. Royston D.
J Cardiovasc Pharmacol 1996;27 Suppl 1:S42–9 (60 ref.)

Acquired supranuclear ocular motor paresis following cardiovascular surgery. Devere TR, et al.
J Neuroophthalmol 1997 Sep;17(3):189–93

Neuropsychologic outcome after normothermic cardiopulmonary bypass [letter; comment] Black AM, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):146–7. Comment on: J Thorac Cardiovasc Surg 1996 Oct;112(4):1036–45.

Additional postbypass administration of tranexamic acid reduces blood loss after cardiac operations. Katoh J, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):802–4

Cardiopulmonary bypass and circulatory arrest increase endothelin-1 production and receptor expression in the lung. Kirshbom PM, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):777–83

The effects of cardiopulmonary bypass temperature on neuropsychologic outcome after coronary artery operations: a prospective randomized trial [see comments] Regragui I, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):1036–45. Comment in: J Thorac Cardiovasc Surg 1997 Jul;114(1):146–7.

Effects of age and ischemic times on biochemical evidence of myocardial injury after pediatric cardiac operations. Taggart DP, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):728–35

Oxidative insult associated with hyperoxic cardiopulmonary bypass in the infantile heart and lung. Morita K, et al.

Jpn Circ J 1996 Jun;60(6):355–63

A Tourette–like syndrome following cardiopulmonary bypass and hypothermia: MRI volumetric measurements. Singer HS, et al. **Mov Disord** 1997 Jul;12(4):588–92

The use of 99Tcm–DTPA aerosol and caesium iodide mini–scintillation detectors in the assessment of lung injury during cardiopulmonary bypass surgery. Keavey PM, et al. **Nucl Med Commun** 1997 Jan;18(1):38–43

The effect of high dose aprotinin therapy on the systemic inflammatory response in a porcine model of cardiopulmonary bypass. Ali M, et al. **Perfusion** 1996 May; 11(3):278–80

Leucocyte depletion in cardiothoracic surgery. Allen SM. **Perfusion** 1996 May;11(3):270–7 (59 ref.)

Stöckert roller pump generated pulsatile flow: cerebral metabolic changes in adult cardiopulmonary bypass. Chow G, et al. **Perfusion** 1997 Mar;12(2):113–9

The influence of biomaterials on inflammatory responses to cardiopulmonary bypass. Courtney JM, et al. **Perfusion** 1996 May;11(3):220–8 (93 ref.)

Review on the multifactorial aspects of bioincompatibility in CPB. Daniel S. **Perfusion** 1996 May;11(3):246–55 (32 ref.)

Blood contact activation: pathophysiological effects and therapeutic approaches. Hornick P, et al. **Perfusion** 1996 Jan;11(1):3–19 (143 ref.)

Biocompatibility in heparin–coated extracorporeal circuits. Hsu LC. **Perfusion** 1996 May;11(3):256–63 (32 ref.)

Massive arterial air embolism during cardiopulmonary bypass: antegrade blood cardioplegia delivered by the pump––an accident waiting to happen. Jones NC, et al. **Perfusion** 1996 Mar;11(2):157–61

Neutrophil activation during cardiopulmonary bypass in paediatric and adult patients. Larson DF, et al. **Perfusion** 1996 Jan;11(1):21–7

Systemic inflammatory response and the splanchnic bed in cardiopulmonary bypass. Ohri SK. **Perfusion** 1996 May; 11(3):200–12 (68 ref.)

Systemic inflammatory responses to surgery with cardiopulmonary bypass. Royston D. **Perfusion** 1996 May; 11(3):177–89 (81 ref.)

Surgery with cardiopulmonary bypass and pulmonary inflammatory responses. Royston D. **Perfusion** 1996 May; 11(3):213–9 (53 ref.)

The systemic inflammatory response to cardiopulmonary bypass and the brain. Smith PL. **Perfusion** 1996 May; 11(3):196–9 (15 ref.)

The history of the concept of inflammatory responses to cardiopulmonary bypass. Utley JR. **Perfusion** 1996 May; 11(3):190–5 (46 ref.)

Expression of adhesion and activation molecules on lymphocytes during open–heart surgery with cardiopulmonary bypass. Toft P, et al. **Scand Cardiovasc J** 1997;31(2):91–5

Outcome of cardiopulmonary resuscitation following open heart surgery. Wahba A, et al. **Scand Cardiovasc J** 1997; 31(3):147–9

Cardiopulmonary bypass causes release of leukocyte proteinase–3. Jönsson P. **Scand J Clin Lab Invest** 1996 Dec; 56(8):721–3

Antithrombin deficiency in special clinical syndromes––Part II: cardiovascular surgery. Levy JH. **Semin Hematol** 1995 Oct;32(4 Suppl 2):49–55 (14 ref.)

Thrombin receptor–related hemostatic defect after cardiopulmonary bypass. Ferraris VA, et al. **Semin Thromb Hemost** 1996;22(4):351–6

Thromboelastography and cardiopulmonary bypass. Spiess BD. **Semin Thromb Hemost** 1995;21 Suppl 4:27–33 (31 ref.)

Relationship between respiratory distress and cytokine response after cardiopulmonary bypass. Ito H, et al. **Surg Today** 1997;27(3):220–5

Systemic release of thrombomodulin, but not from the cardioplegic, reperfused heart during open heart surgery. Valen G, et al. **Thromb Res** 1996 Aug 15;83(4):321–8

[Heart surgery, cardiopulmonary bypass, and organic inflammatory response. Part II: changes in leukocytes, arachidonic acid derivatives, and hormones] Parolari A, et al. **G Ital Cardiol** 1996 May;26(5):545–61 (153 ref.) (Eng. Abstr.) **(Ita)**

[Significance of postoperative elevation of urinary ulinastatin after open heart surgery under cardiopulmonary bypass] Ueki M, et al. **Masui** 1997 Feb;46(2):173–6 (Eng. Abstr.) **(Jpn)**

[Urinary excretion of ulinastatin and NAG after cardiopulmonary bypass] Yokono S, et al. **Masui** 1997 Mar; 46(3):388–92 (Eng. Abstr.) **(Jpn)**

[Retrograde aortic dissection during cardiopulmonary bypass a case report successfully treated by contralateral femoral cannulation] Saito T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct;44(10):1953–7 (Eng. Abstr.) **(Jpn)**

[A case report of open heart surgery in an infant with MNMS caused by femoral arterial cannulation during cardiopulmonary bypass] Shirasawa B, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct;44(10):1902–6 (Eng. Abstr.) **(Jpn)**

[The etiology of neurological complications after cardiopulmonary bypass surgery] Carrascal Y, et al. **Rev Neurol** 1997 Aug;25(144):1278–84 (49 ref.) (Eng. Abstr.) **(Spa)**

ECONOMICS

Cardiac operations in patients 90 years of age and older. Blanche C, et al. **Ann Thorac Surg** 1997 Jun;63(6):1685–90

HISTORY

Historical aspects of cardiopulmonary bypass: from antiquity to acceptance. Stammers AH. **J Cardiothorac Vasc Anesth** 1997 May;11(3):266–74

History of cardiac surgery [letter; comment] Habein HC Jr. **Tex Heart Inst J** 1997;24(2):146. Comment on: Tex Heart Inst J 1997;24(1):1–8.

INSTRUMENTATION

Effects of oxygenator and pumping devices on blood parameters in open heart surgery: a clinical study. Barlas S, et al. **Adv Exp Med Biol** 1996;388:617–23

Low heparinization with heparin–bonded bypass circuits: is it a safe strategy? Bannan S, et al. **Ann Thorac Surg** 1997 Mar;63(3):663–8

Forty–five–degree two–stage venous cannula: advantages over standard two–stage venous cannulation. Lawrence DR, et al. **Ann Thorac Surg** 1997 Jan;63(1):253–4

Attenuation of changes in leukocyte surface markers and complement activation with heparin–coated cardiopulmonary bypass. Moen O, et al. **Ann Thorac Surg** 1997 Jan;63(1):105–11

Nafamostat mesilate reduces blood–foreign surface reactions similar to biocompatible materials. Usui A, et al. **Ann Thorac Surg** 1996 Nov;62(5):1404–11

A new blood pump for cardiopulmonary bypass: the HiFlow centrifugal pump. Göbel C, et al. **Artif Organs** 1997 Jul; 21(7):841–5

Comparison of the Gyro C1E3 and BioMedicus centrifugal pump performances during cardiopulmonary bypass. Nakazawa T, et al. **Artif Organs** 1997 Jul;21(7):782–5

A novel valveless rotary pump for cardiac assist. Rosenfeldt FL, et al. **Artif Organs** 1997 May;21(5):420–5

Design and performance of a physiologic pulsatile flow neonate–infant cardiopulmonary bypass system. Undar A, et al. **ASAIO J** 1996 Sep–Oct;42(5):M580–3

Cardiopulmonary bypass tubes and prime solutions stimulate neutrophil adhesion molecules. el Habbal MH, et al. **Cardiovasc Res** 1997 Jan;33(1):209–15

Cell activation and thrombin generation in heparin bonded cardiopulmonary bypass circuits using a novel in vitro model. Bannan S, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):268–75

Duraflo II coating of cardiopulmonary bypass circuits reduces complement activation, but does not affect the release of granulocyte enzymes : a European multicentre study. Fosse E, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):320–7

Axillary artery cannulation for cardiopulmonary bypass in the presence of diseased ascending aorta [letter] Isomura T, et al. **Eur J Cardiothorac Surg** 1996;10(6):481

Obstruction to blood flow due to plastic diaphragm in the aortic cannula [letter] Khaki A, et al. **Eur J Cardiothorac Surg** 1996;10(10):927

Respiratory dysfunction and white cell activation following cardiopulmonary bypass: comparison of membrane and bubble oxygenators. Martin W, et al. **Eur J Cardiothorac Surg** 1996;10(9):774–83

Complete heparin–coated (CBAS) cardiopulmonary bypass and reduced systemic heparin dose; effects on coagulation and fibrinolysis. Ovrum E, et al. **Eur J Cardiothorac Surg** 1996;10(6):449–55

Simplified technique for antegrade cerebral perfusion. Scorsin M, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):776–8

Clinical effects of the heparin coated surface in cardiopulmonary bypass. Svenmarker S, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):957–64

Serum S–100 protein concentration after cardiac surgery: a randomized trial of arterial line filtration. Taggart DP, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):645–9

EEG changes during cardiopulmonary bypass surgery and postoperative neuropsychological deficit: the effect of bubble and membrane oxygenators. Toner I, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):312–9

Leaching of the plasticizer from PVC tubing in heart–lung bypass unit tubing circuits. **Health Devices** 1996 Oct; 25(10):393–5

Heparin–coated bypass circuits in cardiopulmonary bypass: improved biocompatibility or not. Levy M, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S81–7 (30 ref.)

Enhanced blood conservation in primary coronary artery bypass surgery using heparin–bonded circuits with lower anticoagulation. Aldea GS, et al. **J Card Surg** 1996 Mar–Apr;11(2):85–95

Enhanced blood conservation and improved clinical outcome after valve surgery using heparin–bonded cardiopulmonary bypass circuits. Shapira OM, et al. **J Card Surg** 1996 Sep–Oct;11(5):307–17

Effect of pump flow rate on cerebral blood flow during hypothermic cardiopulmonary bypass in adults. Cook DJ, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):415–9

Pulsatile and nonpulsatile extracorporeal circulation using Capiox E terumo oxygenator: a comparison study with Ultrox and Maxima membrane oxygenators. Minami K, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):227–32

Tubing loops as a model for cardiopulmonary bypass circuits: both the biomaterial and the blood–gas phase interfaces induce complement activation in an in vitro model. Gong J, et al. **J Clin Immunol** 1996 Jul;16(4):222–9

Resection of a large, high–flow arteriovenous malformation during hypotension and hypothermia induced by a percutaneous cardiopulmonary support system. Case report. Iwama T, et al. **J Neurosurg** 1997 Sep;87(3):440–4

An adjustable, percutaneously placed helical coil: control of left ventricular filling pressure during cardiopulmonary bypass in severe left ventricular failure. Kolobow T, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1113–5

Heparin coating of extracorporeal circuits inhibits contact activation during cardiac operations. te Velthuis H, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):117–22

Severe accidental hypothermia: pathophysiology and therapeutic options for hospitals without cardiopulmonary bypass equipment. Schrijver G, et al. **Neth J Med** 1996 Oct;49(4):167–76 (36 ref.)

Quantification of extracorporeal white cell and platelet deposition in cardiopulmonary bypass: comparison of membrane and bubble oxygenators. Martin W, et al. **Nucl Med Commun** 1996 May;17(5):378–84

Stöckert roller pump generated pulsatile flow: cerebral metabolic changes in adult cardiopulmonary bypass. Chow G, et al. **Perfusion** 1997 Mar;12(2):113–9

Emboli generation by the Medtronic Maxima hard–shell adult venous reservoir in cardiopulmonary bypass circuits: a preliminary report. Mitchell SJ, et al. **Perfusion** 1996 Mar; 11(2):145–55

Differences in blood activation related to roller/centrifugal pumps and heparin–coated/uncoated surfaces in a cardiopulmonary bypass model circuit. Moen O, et al. **Perfusion** 1996 Mar;11(2):113–23

Potential problem when using the new lower–prime hollow–fibre membrane oxygenators with uncoated stainless steel heat exchangers. Palanzo DA, et al. **Perfusion** 1996 Nov;11(6):481–5

Clinical evaluation of the oxygenation capacity and controllability of 15 commercially available membrane oxygenators during alpha–stat regulated hypothermic cardiopulmonary bypass. Stinkens D, et al. **Perfusion** 1996 Nov;11(6):471–80

Circulating cytokines and granulocyte–derived enzymes during complex heart surgery. A clinical study with special reference to heparin–coating of cardiopulmonary bypass circuits. Borowiec JW, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):167–74

Thrombin generation during cardiopulmonary bypass using heparin–coated or standard circuits. Ernofsson M, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):157–65

Utilization of a mass–infusion system in the management of ruptured abdominal aortic aneurysms: an alternative application for devices employed in cardiopulmonary bypass. Katsumata T, et al. **Surg Today** 1996;26(10):852–3

Pericardiectomy for constrictive pericarditis using a percutaneous heparin–coated cardiopulmonary support system. Saito A, et al. **Thorac Cardiovasc Surg** 1996 Dec; 44(6):311–2

[Systemic inflammatory reactions to extracorporeal therapy measures (II): Cardiopulmonary bypass] Prondzinsky R, et al. **Wien Klin Wochenschr** 1997 May 23;109(10):346–53 (56 ref.) (Eng. Abstr.) **(Ger)**

[Two successful cases of surgical treatment for left ventricular rupture following myocardial infarction: the usefulness of percutaneous cardiopulmonary support system (PCPS)] Doi K, et al. **Kyobu Geka** 1996 Sep; 49(10):842–5 (Eng. Abstr.) **(Jpn)**

[Application of heparin–coated percutaneous cardiopulmonary support system to elective cardiac and aortic operations] Watanabe SI, et al. **Kyobu Geka** 1997 May;50(5):362–7 (Eng. Abstr.) **(Jpn)**

[Acute–phase therapy of cardiogenic shock and severe myocarditis using percutaneous cardiopulmonary support] Izumi T, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10; 85(1):66–72 (4 ref.) **(Jpn)**

METHODS

Deep hypothermia cardiopulmonary bypass and direct surgery of two large aneurysms at the vertebro–basilar junction. Kato Y, et al. **Acta Neurochir (Wien)** 1996; 138(9):1057–66

Monitoring of ventilation on and off cardiopulmonary bypass: two standards or one? [letter; comment] Lobato EB, et al. **Anesth Analg** 1997 Mar;84(3):703–4. Comment on: Anesth Analg 1996 Apr;82(4):883–4.

Cerebral oxygenation during deep hypothermic cardiopulmonary bypass: is hemoglobin relevant? [letter; comment] Gunter JB. **Anesthesiology** 1996 Oct;85(4):940–2 . Comment on: Anesthesiology 1995 Aug;83(2):405–12.

High–volume, zero–balanced hemofiltration to reduce delayed inflammatory response to cardiopulmonary bypass in children [see comments] Journois D, et al. **Anesthesiology** 1996 Nov;85(5):965–76. Comment in: Anesthesiology 1996 Nov;85(5):952–60.

Flecainide overdose: is cardiopulmonary support the treatment? Yasui RK, et al. **Ann Emerg Med** 1997 May; 29(5):680–2

Axilloaxillary cardiopulmonary bypass: a practical alternative to femorofemoral bypass. Bichell DP, et al. **Ann Thorac Surg** 1997 Sep;64(3):702–5

Port–access cardiac operations with cardioplegic arrest. Fann JI, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S35–9

CARDIOPULMONARY BYPASS

Cardiopulmonary bypass with heparin-coated circuits and reduced systemic anticoagulation. Kuitunen AH, et al. **Ann Thorac Surg** 1997 Feb;63(2):438-44

Heparin-bonded circuits decrease myocardial ischemic damage: an experimental study. Lazar HL, et al. **Ann Thorac Surg** 1997 Jun;63(6):1701-5

Regional blood flow during pulsatile cardiopulmonary bypass and after circulatory arrest in an infant model. Lodge AJ, et al. **Ann Thorac Surg** 1997 May;63(5):1243-50

Effect of cardiopulmonary bypass perfusion protocols on gut tissue oxygenation and blood flow. Ohri SK, et al. **Ann Thorac Surg** 1997 Jul;64(1):163-70

Emergency pulmonary embolectomy with percutaneous cardiopulmonary bypass. Ohteki H, et al. **Ann Thorac Surg** 1997 Jun;63(6):1584-6

Closed-chest cardiopulmonary bypass and cardioplegia: basis for less invasive cardiac surgery. Peters WS, et al. **Ann Thorac Surg** 1997 Jun;63(6):1748-54

Simple system for deairing the heart after cardiopulmonary bypass. Salzano RP Jr, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1537-8

Technique of right heart protection and deairing during heartmate vented electric LVAD implantation. Van Meter CH Jr, et al. **Ann Thorac Surg** 1997 Apr;63(4):1191-2

Enhancement of brain p0(2) during cardiopulmonary bypass using a hyperosmolar oxygen carrying solution. Runge TM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May;25(3):297-308

Various problems during long-term percutaneous cardiopulmonary support. Ihno T, et al. **Artif Organs** 1997 Jul;21(7):766-71

Less blood damage in the impeller centrifugal pump: a comparative study with the roller pump in open heart surgery. Nishinaka T, et al. **Artif Organs** 1996 Jun; 20(6):707-10

Significant left ventricular unloading with transaortic catheter venting during venoarterial bypass. Shibuya M, et al. **Artif Organs** 1997 Jul;21(7):789-92

Clinical experience with the Nikkiso centrifugal pump. Shomura Y, et al. **Artif Organs** 1996 Jun;20(6):711-4

Reduction of neutrophil margination by L-arginine during hypothermic cardiopulmonary bypass in a pig model. Dewanjee MK, et al. **ASAIO J** 1996 Sep-Oct;42(5):M661-6

Nitric oxide prevents human platelet adhesion to fiber membranes in whole blood. Konishi R, et al. **ASAIO J** 1996 Sep-Oct;42(5):M850-3

Clinical heparin coated cardiopulmonary bypass: reduction of systemic heparin requirements for redo cardiac surgery. Ladowski JS, et al. **ASAIO J** 1996 Jan-Feb;42(1):34-6

In-line leukocyte filtration during bypass. Clinical results from a randomized prospective trial. Lust RM, et al. **ASAIO J** 1996 Sep-Oct;42(5):M819-22

The vasoregulatory role of endothelium derived nitric oxide during pulsatile cardiopulmonary bypass. Macha M, et al. **ASAIO J** 1996 Sep-Oct;42(5):M800-4

Complete heparin-coated cardiopulmonary bypass and low heparin dose reduce complement and granulocyte activation. Ovrum E, et al. **Eur J Cardiothorac Surg** 1996; 10(1):54-60

Nitric oxide release during hypothermic versus normothermic cardiopulmonary bypass. Ruvolo G, et al. **Eur J Cardiothorac Surg** 1995;9(11):651-4

Heparin-coated circuit in coronary surgery. A clinical study. Sáenz A, et al. **Eur J Cardiothorac Surg** 1996;10(1):48-53

Influence of heparin, heparin plus aprotinin and hirudin on contact activation in a cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May; 32(1-3):57-61

Heparin-coated devices and high-dose aprotinin optimally inhibit contact system activation in an in vitro cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May;32(1-3):128-30

Effective use of heparin-bonded circuits and lower anticoagulation for coronary artery bypass grafting in Jehovah's Witnesses. Aldea GS, et al. **J Card Surg** 1996 Jan-Feb;11(1):12-7

The effects of pulsatile cardiopulmonary bypass on cerebral and renal blood flow in dogs. Cook DJ, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):420-7

Pulsatile and nonpulsatile perfusion: the continuing controversy. Hornick P, et al. **J Cardiothorac Vasc Anesth** 1997 May;11(3):310-5 (63 ref.)

High-dose esmolol and cardiopulmonary bypass for mitral valve replacement in the beating heart. Pivalizza EG, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):485-6

Effect of methylprednisolone on complement activation during heparin neutralization. Loubser PG. **J Cardiovasc Pharmacol** 1997 Jan;29(1):23-7

Comparison of tympanic, esophageal and blood temperatures during mild hypothermic cardiopulmonary bypass: a study using an infrared emission detection tympanic thermometer. Harasawa K, et al. **J Clin Monit** 1997 Jan;13(1):19-24

Single lung transplantation for canine pulmonary hypertension. Okada M, et al. **J Heart Lung Transplant** 1997 May;16(5):532-7

Profound hypothermia and cardiopulmonary bypass in the treatment of recurrent giant angioblastic meningioma case report. Chung YG, et al. **J Korean Med Sci** 1996 Oct; 11(5):449-53

Influence of normothermic systemic perfusion during coronary artery bypass operations: a randomized prospective study. Birdi I, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):475-81

Cardiopulmonary bypass for heparin-induced thrombocytopenia: management with a heparin-bonded circuit and enoxaparin. Ganjoo AK, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1390-2

Temperature during cardiopulmonary bypass for coronary artery operations does not influence postoperative cognitive function: a prospective, randomized trial. Plourde G, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):123-8

Transapical aortic cannulation for hypothermic aortic operation through a left thoracotomy: an alternative to avoid retrograde arterial perfusion. Shiiya N, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1113-4

Cardiopulmonary bypass (CPB) for lung transplantation. Hlozek CC, et al. **Perfusion** 1997 Mar;12(2):107-12

Cardiopulmonary bypass venous cannulation challenges in a paediatric patient with complex congenital heart disease: a case report. Manzer R, et al. **Perfusion** 1997 May; 12(3):203-6

The effect of fast-tracking on neurological complications post-cardiopulmonary bypass. Palanzo DA, et al. **Perfusion** 1996 Nov;11(6):451-3

Extracorporeal circulation for port-access cardiac surgery. Toomasian JM, et al. **Perfusion** 1997 Mar;12(2):83-91 (20 ref.)

Use of the retrograde "pull-through" technique. Vitali E, et al. **Tex Heart Inst J** 1997;24(2):114-7

Myocardial protection by pressure- and volume-controlled continuous hypothermic coronary perfusion (PVC-CONTHY-CAP) in combination with ultra-short beta-blockade and nitroglycerine. Borowski A, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):51-4

An updated report of a case of lung cancer resected using cardiopulmonary bypass. Horita K, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):100-1

Bilateral inferior vena cava with azygos continuation but without congenital heart disease complicates routine venous cannulation for cardiopulmonary bypass in an adult. Wolfhard U, et al. **Thorac Cardiovasc Surg** 1997 Feb; 45(1):40-2

[A case report of a successful surgery for thoracoabdominal aortic aneurysm under partial cardiopulmonary bypass with selective perfusion of major abdominal branches] Abe M, et al. **Kyobu Geka** 1996 Nov;49(12):1010-3 (Eng. Abstr.) **(Jpn)**

[Effectiveness of continuous pulmonary perfusion during total cardiopulmonary bypass to prevent lung reperfusion injury] Suzuki T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):31-6 (Eng. Abstr.) **(Jpn)**

MORTALITY

Cardiac operations in patients 90 years of age and older. Blanche C, et al. **Ann Thorac Surg** 1997 Jun;63(6):1685-90

[Emergency percutaneous cardiopulmonary support for patients with cardiac arrest or severe cardiogenic shock] Matsuwaka R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2006-10 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Prospective evaluation of verbal memory performance after cardiopulmonary bypass surgery. Vingerhoets G, et al. **J Clin Exp Neuropsychol** 1996 Apr;18(2):187-96

STANDARDS

Cardiopulmonary bypass and cell-saver technique in combined oncologic and cardiovascular surgery. Akchurin RS, et al. **Artif Organs** 1997 Jul;21(7):763-5

Experimental studies on three types of heparin-coated cardiopulmonary bypass circuits. Baba T, et al. **Artif Organs** 1997 Jul;21(7):779-81

An automatic flow controller for a centrifugal blood pump. Beppu T, et al. **Artif Organs** 1997 Jul;21(7):630-4

Effects of heparin coating of cardiopulmonary bypass circuits on in vitro oxygen free radical production during coronary bypass surgery. Bozdayi M, et al. **Artif Organs** 1996 Sep; 20(9):1008-16

Pulsatile augmentation device for extracorporeal circulation. Doty DB, et al. **Artif Organs** 1996 Dec;20(12):1304-9

Feasibility of an air motor-driven centrifugal blood-pumping system. Forbes SJ, et al. **Artif Organs** 1996 Jul;20(7):783-8

A newly developed silicone-coated membrane oxygenator for long-term cardiopulmonary bypass and cardiac support. Iida M, et al. **Artif Organs** 1997 Jul;21(7):755-9

Biocompatibility of heparin-coated circuits in pediatric cardiopulmonary bypass. Kagisaki K, et al. **Artif Organs** 1997 Jul;21(7):836-40

Effective cross-circulation technique of venoarterial bypass for differential hypoxia condition. Kitamura M, et al. **Artif Organs** 1997 Jul;21(7):786-8

Our distal aortic perfusion system in descending thoracic and thoracoabdominal aortic aneurysm repairs. Morishita K, et al. **Artif Organs** 1997 Jul;21(7):822-4

Clinical study of totally roller pumpless cardiopulmonary bypass system. Murakami F, et al. **Artif Organs** 1997 Jul; 21(7):803-7

Study of regional cerebral oxygen saturation during percutaneous cardiopulmonary support. Ninomiya J, et al. **Artif Organs** 1997 Jul;21(7):852-5

Recent experience of integrated myocardial management: the newest strategy for myocardial protection. Okamoto F, et al. **Artif Organs** 1997 Jul;21(7):798-802

Experiences of postcardiotomy assist: pneumatic ventricular assist device or venoarterial bypass with percutaneous cardiopulmonary support. Orime Y, et al. **Artif Organs** 1996 Jun;20(6):721-3

Clinical evaluation of the centrifugal pump in open heart surgery: a comparative study of different pumps. Takarabe K, et al. **Artif Organs** 1997 Jul;21(7):760-2

The hemolysis test of the Gyro C1E3 pump in pulsatile mode. Tayama E, et al. **Artif Organs** 1997 Jul;21(7):675-9

Use of percutaneous cardiopulmonary support system with rotary blood pump in graft replacement of the descending thoracic and thoracoabdominal aorta. Watanabe S, et al. **Artif Organs** 1997 Jul;21(7):846-51

Clinical use of centrifugal pumps and the roller pump in open heart surgery: a comparative evaluation. Yoshikai M, et al. **Artif Organs** 1996 Jun;20(6):704-6

Clinical study of platelet function and coagulation/fibrinolysis with Duraflo II heparin coated cardiopulmonary bypass equipment. Nakajima T, et al. **ASAIO J** 1996 Jul-Aug;42(4):301-5

A new pulsatile blood pump for adult cardiopulmonary bypass: design criteria and preliminary fluid dynamic evaluation. Inzoli F, et al. **Int J Artif Organs** 1996 Jun; 19(6):359-66

Perfusion standards and guidelines. Hill AG, et al. **Perfusion** 1997 Jul;12(4):251-5

An approach towards total quality assurance in cardiopulmonary bypass: which data to register and how to assess perfusion quality. Pedersen C, et al. **Perfusion** 1996 Jan;11(1):39-44

STATISTICS & NUMERICAL DATA

Lessons from perfusion surveys. Kurusz M. **Perfusion** 1997 Jul;12(4):221-7

TRENDS

Evolution toward the development of totally implantable rotary blood pumps [editorial] Ohtsubo S, et al. **Artif Organs** 1996 Jun;20(6):461-2

Clinical experience of percutaneous cardiopulmonary support. Sasako Y, et al. **Artif Organs** 1996 Jun;20(6):733-6

UTILIZATION

Other potential uses for cardiopulmonary bypass [letter; comment] Dieter RA Jr, et al. **Chest** 1997 Aug;112(2):566-7 . Comment on: Chest 1996 Aug;110(2):571-4.

VETERINARY

Do sheep really have problems with cardiopulmonary bypass for total artificial heart implantation? Kim WG, et al. **Artif Organs** 1997 Feb;21(2):154-9

Open resection for subvalvular aortic stenosis in dogs [published erratum appears in J Am Vet Med Assoc 1997 Jan 1;210(1):92] Monnet E, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1255-61

Deep hypothermic low flow cardiopulmonary bypass in small dogs. Lew LJ, et al. **Vet Surg** 1997 Jul-Aug;26(4):281-9

CARDIOPULMONARY RESUSCITATION

Utstein: proactively improving the quality of cardiac arrest research [editorial; comment] Christenson JM. **Acad Emerg Med** 1997 Jun;4(6):536-7. Comment on: Acad Emerg Med 1997 Jun;4(6):603-27.

The effects of endothelin-1 on coronary perfusion pressure during cardiopulmonary resuscitation in a canine model. DeBehnke DJ, et al. **Acad Emerg Med** 1996 Feb;3(2):137-41

Adenosine antagonists and cardiopulmonary resuscitation [letter] de Garavilla L. **Acad Emerg Med** 1996 Nov; 3(11):1075-6

Who gets bystander cardiopulmonary resuscitation in a witnessed arrest? Jackson RE, et al. **Acad Emerg Med** 1997 Jun;4(6):540-4

If one receptor doesn't do it, try another [editorial] Paradis NA. **Acad Emerg Med** 1996 Feb;3(2):97-9

Platelet factor 4 release in patients undergoing cardiopulmonary resuscitation--can reperfusion be impaired by platelet activation? Böttiger BW, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):631-5

Cerebral autoregulation is impaired in patients resuscitated after cardiac arrest. Nishizawa H, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1149-53

Paediatric cardiac arrest and resuscitation provided by physician-staffed emergency care units. Suominen P, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):260-5

CPR during pregnancy [letter; comment] Perkins V. **Am Heart J** 1996 Dec;132(6):1319. Comment on: Am Heart J 1995 Oct;130(4):871-6.

Lidocaine pharmacokinetics after cardiac arrest and external cardiopulmonary resuscitation. Hendrie J, et al. **Am J Cardiol** 1996 Dec 1;78(11):1322-3

Effect of dose on the nasal absorption of epinephrine during cardiopulmonary resuscitation. Bleske BE, et al. **Am J Emerg Med** 1996 Mar;14(2):133-8

Type of arrhythmia at EMS arrival on scene in out-of-hospital cardiac arrest in relation to interval from collapse and whether a bystander initiated CPR. Herlitz J, et al. **Am J Emerg Med** 1996 Mar;14(2):119-23

Fat embolism with the use of intraosseous infusion during cardiopulmonary resuscitation. Fiallos M, et al. **Am J Med Sci** 1997 Aug;314(2):73–9

Cardiopulmonary resuscitation: a retrospective review. Denton R, et al. **Anaesthesia** 1997 Apr;52(4):324–7

Utstein-style guidelines for uniform reporting of laboratory CPR research: a statement for health care professionals from a Task Force of the American Heart Association, the American College of Emergency Physicians, the American College of Cardiology, the European Resuscitation Council, the Heart and Stroke Foundation of Canada, the Institute of Critical Care Medicine, the Safar Center for Resuscitation Research, and the Society for Academic Emergency Medicine. Idris AH, et al. **Ann Emerg Med** 1996 Nov;28(5):527–41 (74 ref.)

Unwitnessed out-of-hospital cardiac arrest: is resuscitation worthwhile? Kuisma M, et al. **Ann Emerg Med** 1997 Jul; 30(1):69–75

The challenges of teaching and learning about cardiopulmonary resuscitation in the nursing home [editorial; comment] Zweig S. **Arch Fam Med** 1996 Apr; 5(4):213–4. Comment on: Arch Fam Med 1996 Apr;5(4):207–12.

Cardiopulmonary resuscitation and do-not-resuscitate orders in the nursing home. Zweig SC. **Arch Fam Med** 1997 Sep–Oct;6(5):424–9 (83 ref.)

Functional status among survivors of in-hospital cardiopulmonary resuscitation. SUPPORT Investigators Study to Understand Progress and Preferences for Outcomes and Risks of Treatment. FitzGerald JD, et al. **Arch Intern Med** 1997 Jan 13;157(1):72–6

Cardiopulmonary arrest in pregnancy: successful resuscitation of mother and infant following immediate caesarean section in labour ward. Parker J, et al. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):207–10

Cardiopulmonary resuscitation. Ballew KA. **BMJ** 1997 May 17;314(7092):1462–5 (42 ref.)

Standardising crash call numbers. A minor issue compared with need to change concept of cardiac arrest team [letter; comment] Findlay GP, et al. **BMJ** 1996 Nov 30; 313(7069):1404. Comment on: BMJ 1996 Aug 17;313(7054):429.

Survival of patients initially resuscitated from out of hospital cardiac arrest. Study did not include patients admitted for intensive care [letter; comment] Hatcher I. **BMJ** 1996 Oct 12;313(7062):941. Comment on: BMJ 1996 Jun 29;312(7047):1633–7.

Standardising crash call numbers. A recommendation already exists [letter; comment] Ward M. **BMJ** 1996 Nov 30; 313(7069):1404. Comment on: BMJ 1996 Aug 17;313(7054):429.

Having some lifesaving skills must be better than having none [letter; comment] Wills A. **BMJ** 1997 Jan 18;314(7075):222 . Comment on: BMJ 1996 Oct 12;313(7062):912–6.

The laryngeal mask airway and the tracheal route for drug administration. Alexander R, et al. **Br J Anaesth** 1997 Feb; 78(2):220–1

Cardiopulmonary resuscitation of elderly people in long-term care [editorial] [see comments] Nazerali N. **Can Fam Physician** 1996 Dec;42:2320–2, 2330–2 (22 ref.) . Comment in: Can Fam Physician 1997 Apr;43:609, 611, 613. Comment in: Can Fam Physician 1997 Apr;43:613. **(Eng, Fre)**

Mild hypothermia therapy after cardiopulmonary resuscitation may improve cerebral resuscitation [letter] Iwama H, et al. **Can J Anaesth** 1997 Jun;44(6):677

From CPR to DNR. The return of death with dignity [letter] Ciaglia P. **Chest** 1996 Dec;110(6):1627

Cardiac resuscitation. The search for hemodynamically more effective methods. Gazmuri RJ, et al. **Chest** 1997 Mar; 111(3):712–23 (143 ref.)

A reappraisal of mouth-to-mouth ventilation during bystander-initiated cardiopulmonary resuscitation. A statement for healthcare professionals from the Ventilation Working Group of the Basic Life Support and Pediatric Life Support Subcommittees, American Heart Association. Becker LB, et al. **Circulation** 1997 Sep 16;96(6):2102–12 (121 ref.)

Utstein-style guidelines for uniform reporting of laboratory CPR research. A statement for healthcare professionals from a task force of the American Heart Association, the American College of Emergency Physicians, the American College of Cardiology, the European Resuscitation Council, the Heart and Stroke Foundation of Canada, the Institute of Critical Care Medicine, the Safar Center for Resuscitation Research, and the Society for Academic Emergency Medicine. Writing Group. Idris AH, et al. **Circulation** 1996 Nov 1;94(9):2324–36 (74 ref.)

High-energy defibrillation increases the severity of postresuscitation myocardial dysfunction. Xie J, et al. **Circulation** 1997 Jul 15;96(2):683–8

A randomized, blinded trial of high-dose epinephrine versus standard-dose epinephrine in a swine model of pediatric asphyxial cardiac arrest. Berg RA, et al. **Crit Care Med** 1996 Oct;24(10):1695–700

Delayed hyperemia causing intracranial hypertension after cardiopulmonary resuscitation. Iida K, et al. **Crit Care Med** 1997 Jun;25(6):971–6

Extramyocardial acidosis impairs cardiac resuscitability in isolated, perfused, rat hearts. Morimoto Y, et al. **Crit Care Med** 1996 Oct;24(10):1719–23

Regulation of beta 2-adrenergic receptors on mononuclear leukocytes in patients with acute ischemic heart disease. Prengel AW, et al. **Crit Care Med** 1997 Apr;25(4):646–51

Cardiovascular function during the postresuscitation phase after cardiac arrest in pigs: a comparison of epinephrine versus vasopressin. Prengel AW, et al. **Crit Care Med** 1996 Dec;24(12):2014–9

Effects of buffer agents on postresuscitation myocardial dysfunction. Sun S, et al. **Crit Care Med** 1996 Dec; 24(12):2035–41

Cardiopulmonary resuscitation: a promise as yet largely unfulfilled. Weil MH, et al. **Dis Mon** 1997 Jul;43(7):429–501 (162 ref.)

Transoesophageal echocardiographic assessment of mitral and aortic valve function during cardiopulmonary resuscitation. Huemer G, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):622–6

Response of myocardial cellular energy metabolism to variation of buffer composition during open-chest experimental cardiopulmonary resuscitation in the pig. Wiklund L, et al. **Eur J Clin Invest** 1997 May;27(5):417–26

What did we learn from the time registration in the Belgian Cardio-Pulmonary-Cerebral Resuscitation registry? Vanhaute O, et al. **Eur J Emerg Med** 1996 Mar;3(1):25–30

Platelet activation with massive formation of thromboxane A2 during and after cardiopulmonary resuscitation. Gando S, et al. **Intensive Care Med** 1997 Jan;23(1):71–6

Doppler measurement of cardiac output during cardiopulmonary resuscitation. Fodden DI, et al. **J Accid Emerg Med** 1996 Nov;13(6):379–82

Back from the dead: extracorporeal rewarming of severe accidental hypothermia victims in accident and emergency. Ireland AJ, et al. **J Accid Emerg Med** 1997 Jul;14(4):255–7

Cardiopulmonary resuscitation following profound immersion hypothermia. Steedman DJ, et al. **J Accid Emerg Med** 1997 May;14(3):170–2

Creatine kinase-mb fraction and cardiac troponin T to diagnose acute myocardial infarction after cardiopulmonary resuscitation. Müllner M, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1220–5

Diagnostic accuracy of transesophageal echocardiography during cardiopulmonary resuscitation. van der Wouw PA, et al. **J Am Coll Cardiol** 1997 Sep;30(3):780–3

Characteristics of patients receiving or foregoing resuscitation at the time of cardiopulmonary arrest. Ghusn HF, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1118–22

Active compression-decompression cardiopulmonary resuscitation does not improve survival in patients with prehospital cardiac arrest in a physician-manned emergency medical system [see comments] Luiz T, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):178–86. Comment in: J Cardiothorac Vasc Anesth 1996 Feb;10(2):175–7.

Active compression-decompression cardiopulmonary resuscitation (CPR): the latest "new" CPR? [comment] Otto CW. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):175–7. Comment on: J Cardiothorac Vasc Anesth 1996 Feb;10(2):178–86.

Current concepts in cardiopulmonary resuscitation. Torres NE, et al. **J Cardiothorac Vasc Anesth** 1997 May; 11(3):391–407 (177 ref.)

Opening the doors: family presence during resuscitation. Eichhorn DJ, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):59–70 (26 ref.)

Public policy solutions sought for emergency care. Hamburg RS. **J Cardiovasc Nurs** 1996 Jul;10(4):85–92 (9 ref.)

Neurologic outcomes after cardiac resuscitation. Shively M, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):93–6 (5 ref.)

Blood glucose concentration after cardiopulmonary resuscitation influences functional neurological recovery in human cardiac arrest survivors. Müllner M, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):430–6

Reluctance of paramedics and emergency medical technicians to perform mouth-to-mouth resuscitation. Hew P, et al. **J Emerg Med** 1997 May-Jun;15(3):279–84

Postmortem diffusion of tracheal lidocaine into heart blood following intubation for cardiopulmonary resuscitation. Moriya F, et al. **J Forensic Sci** 1997 Mar;42(2):296–9

An analysis of CPR decision-making by elderly patients. Sayers GM, et al. **J Med Ethics** 1997 Aug;23(4):207–12

Assessment of cardiopulmonary resuscitation in the membership examination of the Royal College of Physicians. Chin D, et al. **J R Coll Physicians Lond** 1997 Mar-Apr;31(2):198–201

Cardiopulmonary resuscitation on television [letter; comment] Mulcahy HE, et al. **N Engl J Med** 1996 Nov 21;335(21):1605–6; discussion 1607. Comment on: N Engl J Med 1996 Jun 13;334(24):1578–82.

Outcome of out-of-hospital cardiac or respiratory arrest in children [see comments] Schindler MB, et al. **N Engl J Med** 1996 Nov 14;335(20):1473–9. Comment in: N Engl J Med 1997 May 1;336(18):1325; discussion 1325–6.

Cardiopulmonary resuscitation on television [letter; comment] Troy A. **N Engl J Med** 1996 Nov 21; 335(21):1606; discussion 1607. Comment on: N Engl J Med 1996 Jun 13;334(24):1578–82. Comment on: N Engl J Med 1996 Jun 13;334(24):1604–5.

Cardiopulmonary resuscitation on television [letter; comment] Wootton DG. **N Engl J Med** 1996 Nov 21; 335(21):1607; discussion 1607. Comment on: N Engl J Med 1996 Jun 13;334(24):1578–82.

Proceedings of the Wolf Creek IV Conference on Cardiopulmonary Resuscitation. Palm Springs, California, April 14–16, 1996. **New Horiz** 1997 May;5(2):95–172

Minimizing hypoxic injury during cardiac arrest. Becker LB. **New Horiz** 1997 May;5(2):145–52

Objective measurements for guiding initiation, sequencing, and discontinuation of life-support intervention. Paradis NA. **New Horiz** 1997 May;5(2):158–63

Optimal access to- and response by-public and voluntary services, including the role of bystanders and family members, in cardiopulmonary resuscitation. White RD. **New Horiz** 1997 May;5(2):153–7 (29 ref.)

Resuscitation following arrhythmia in patients undergoing pharmacological/exercise stress for myocardial perfusion imaging [editorial] Prvulovich E. **Nucl Med Commun** 1996 Dec;17(12):1003–5 (11 ref.)

Electronic voice boosts CPR responses. Starr LM. **Occup Health Saf** 1997 Apr;66(4):30–7

Initial end-tidal CO2 is markedly elevated during cardiopulmonary resuscitation after asphyxial cardiac arrest. Berg RA, et al. **Pediatr Emerg Care** 1996 Aug; 12(4):245–8

Interventions during transport [letter; comment] [published erratum appears in Pediatr Emerg Care 1997 Jun;13(3):245] Harris EM. **Pediatr Emerg Care** 1996 Oct;12(5):390. Comment on: Pediatr Emerg Care 1996 Feb;12(1):23–6.

Intraosseous and central venous blood acid-base relationship during cardiopulmonary resuscitation. Kissoon N, et al. **Pediatr Emerg Care** 1997 Aug;13(4):250–3

Initiation/termination of cardiopulmonary resuscitation. Rosenberg NM, et al. **Pediatr Emerg Care** 1997 Aug; 13(4):282–4

Effect of vehicle on the nasal absorption of epinephrine during cardiopulmonary resuscitation. Bleske BE, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1039–45

Discussing CPR with patients and relatives [letter; comment] King D, et al. **Postgrad Med J** 1996 May;72(847):317. Comment on: Postgrad Med J 1995 Oct;71(840):585–9.

Cardiopulmonary resuscitation [letter; comment] Turnbull CJ, et al. **Postgrad Med J** 1997 Jan;73(855):62. Comment on: Postgrad Med J 1995 Oct;71(840):585–9.

Bystander-initiated cardiopulmonary resuscitation out-of-hospital. A first description of the bystanders and their experiences. Axelsson A, et al. **Resuscitation** 1996 Nov;33(1):3–11

The relationship between airway carbon dioxide excretion and cardiac output during cardiopulmonary resuscitation. Blumenthal SR, et al. **Resuscitation** 1997 Jun;34(3):263–70

Predicting survival, in-hospital cardiac arrests: resuscitation survival variables and training effectiveness. Cooper S, et al. **Resuscitation** 1997 Aug;35(1):17–22

Haemodynamic effects of descending aortic occlusion during cardiopulmonary resuscitation. Deakin CD, et al. **Resuscitation** 1996 Nov;33(1):49–52

Intensive care unit admission following successful cardiopulmonary resuscitation: resource utilization, functional status and long-term survival. Dhar A, et al. **Resuscitation** 1996 Jun;31(3):235–42

Volume expansion during cardiopulmonary resuscitation reduces cerebral no-reflow. Fischer M, et al. **Resuscitation** 1996 Oct;32(3):227–40 (66 ref.)

High dose naloxone does not improve cerebral or myocardial blood flow during cardiopulmonary resuscitation in pigs. Gervais HW, et al. **Resuscitation** 1997 Jun;34(3):255–61

Experiments in CPR and clinical reality [letter] Gilston A. **Resuscitation** 1996 Sep;32(2):159

Out-of-hospital cardiac arrest. Evaluation of one year of activity in Saint-Etienne's emergency medical system using the Utstein style. Giraud F, et al. **Resuscitation** 1996 Nov; 33(1):19–27

Resuscitation from out-of-hospital cardiac arrest: implications for cardiac enzyme estimation. Grubb NR, et al. **Resuscitation** 1996 Nov;33(1):35–41

Rhythm changes during resuscitation from ventricular fibrillation in relation to delay until defibrillation, number of shocks delivered and survival. Herlitz J, et al. **Resuscitation** 1997 Feb;34(1):17–22

Utstein-style guidelines for uniform reporting of laboratory CPR research. A statement for healthcare professionals from a Task Force of the American Heart Association, the American College of Emergency Physicians, the American College of Cardiology, the European Resuscitation Council, the Heart and Stroke Foundation of Canada, the Institute of Critical Care Medicine, the Safar Center for Resuscitation Research, and the Society for Academic Emergency Medicine. Idris AH, et al. **Resuscitation** 1996 Nov;33(1):69–84 (74 ref.)

Renal function following cardiac arrest and resuscitation in the canine. Izzat NN, et al. **Resuscitation** 1996 Oct; 32(3):251–61

Anesthetic regimen effects on a pediatric porcine model of asphyxial arrest. Jasani MS, et al. **Resuscitation** 1997 Aug; 35(1):69–75

Course of neurological recovery and cerebral prognostic signs during cardio-pulmonary resuscitation. Jørgensen EO. **Resuscitation** 1997 Aug;35(1):9–16

CT scanning as a helpful tool for decision-making during CPR [letter] Ladner E, et al. **Resuscitation** 1996 Apr; 31(2):171–3

Analysing calls by lay persons reporting cardiac arrest. Meron G, et al. **Resuscitation** 1996 Jul;32(1):23–6

Ethics in treatment decisions during out-of-hospital resuscitation. Naess AC, et al. **Resuscitation** 1997 Jan; 33(3):245–56

Epinephrine pharmacokinetics and pharmacodynamics following endotracheal administration in dogs: the role of volume of diluent. Paret G, et al. **Resuscitation** 1997 Aug; 35(1):77–82

Blood alcohol and cardiac arrest. Parke T, et al. **Resuscitation** 1996 Oct;32(3):199–202

Regulation of right atrial beta-adrenoceptors after cardiopulmonary resuscitation in pigs. Prengel AW, et al. **Resuscitation** 1996 Jun;31(3):271–8

Influence of different types of recovery positions on perfusion indices of the forearm. Rathgeber J, et al. **Resuscitation** 1996 Jul;32(1):13–7

Paediatric chain of survival [letter] Rochester S, et al. **Resuscitation** 1997 Aug;35(1):88–9

Future directions for resuscitation research: introduction. Safar P, et al. **Resuscitation** 1996 Jul;32(1):45–50 (20 ref.)

The effect of experience of on-site physicians on survival from prehospital cardiac arrest [see comments] Silfvast T, et al. **Resuscitation** 1996 Apr;31(2):101–5. Comment in: Resuscitation 1996 Dec;33(2):179.

Paramedics organizational culture and their care for relatives of cardiac arrest victims. Steen E, et al. **Resuscitation** 1997 Feb;34(1):57–63

Effects of the AT1-selective angiotensin II antagonist, telmisartan, on hemodynamics and ventricular function after cardiopulmonary resuscitation in pigs. Strohmenger HU, et al. **Resuscitation** 1997 Aug;35(1):61–8

Firm myocardium in cardiopulmonary resuscitation. Takino M, et al. **Resuscitation** 1996 Dec;33(2):101–6

Unexpected return of cardiac action after termination of cardiopulmonary resuscitation. Voelckel W, et al. **Resuscitation** 1996 Jul;32(1):27–9

Improving cardiopulmonary resuscitation skills retention: effect of two checklists designed to prompt correct performance. Ward P, et al. **Resuscitation** 1997 Jun; 34(3):221–5

Statement on public access defibrillation. American Heart Association Taskforce on Automatic External Defibrillation. Weisfeldt ML, et al. **Resuscitation** 1996 Sep; 32(2):125–6

American Heart Association Report on the Public Access Defibrillation Conference, December 8–10, 1994. American Heart Association Taskforce on Automatic External Defibrillation. Weisfeldt ML, et al. **Resuscitation** 1996 Sep; 32(2):127–38 (30 ref.)

Outcome of out-of-hospital cardiorespiratory arrest in south Glamorgan. Weston CF, et al. **Resuscitation** 1997 Jun; 34(3):227–33

The ventilation/compression ratio influences the effectiveness of two rescuer advanced cardiac life support on a manikin. Wik L, et al. **Resuscitation** 1996 Apr; 31(2):113–9

Outcome of cardiopulmonary resuscitation following open heart surgery. Wahba A, et al. **Scand Cardiovasc J** 1997; 31(3):147–9

Thus "conscious" does make cowards of us all: reassessing resuscitation. Goldblatt D. **Semin Neurol** 1997 Jun; 17(2):187–90

Management of subarachnoid hemorrhage patients who presented with respiratory arrest resuscitated with bystander CPR. Shapiro S. **Stroke** 1996 Oct;27(10):1780–2

Massive fibrin formation with consecutive impairment of fibrinolysis in patients with out-of-hospital cardiac arrest. Gando S, et al. **Thromb Haemost** 1997 Feb;77(2):278–82

[The effect of preischemic blood sugar concentration on hemodynamics and regional organ blood flow during and following cardiopulmonary resuscitation (CPR) in swine] Gervais HW, et al. **Anaesthesist** 1996 Oct;45(10):941–9 (Eng. Abstr.) **(Ger)**

[Ventilation during cardiopulmonary resuscitation (CPR). A literature study and analysis of ventilation strategies] Wenzel V, et al. **Anaesthesist** 1997 Feb;46(2):133–41 (32 ref.) (Eng. Abstr.) **(Ger)**

[Drowning is one of the most frequent causes of death in children(interview by Stefanie Kraus)] Laub MC. **Fortschr Med** 1996 Sep 10;114(25):12, 14–5 **(Ger)**

[IRC (Italian Resuscitation Council). Recommendations for training in basic life support (BLS)] **Minerva Anestesiol** 1997 Mar;63(3):93–8 (Eng. Abstr.) **(Ita)**

[Potency of CPR without artificial breathing] Fukui M, et al. **Masui** 1997 Mar;46(3):314–20 (40 ref.) (Eng. Abstr.) **(Jpn)**

[Monoamines, monoamine metabolites, neuron specific enolase and myelin basic protein concentrations in cerebrospinal fluid of resuscitated patients] Takahashi T. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Feb; 17(1):7–16 (Eng. Abstr.) **(Jpn)**

[Emergency treatment of cardiogenic shock] Hasebe N, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10;85(1):48–53 (5 ref.) **(Jpn)**

[Use of cortical SEP for the prediction of neurological prognosis after cardiopulmonary resuscitation] Tobita M, et al. **No To Shinkei** 1996 Feb;49(2):131–6 (Eng. Abstr.) **(Jpn)**

[Death diagnosis and hypothermia (letter)] Fystro R. **Tidsskr Nor Laegeforen** 1997 Apr 30;117(11):1646 **(Nor)**

[Cardiopulmonary resuscitation in a general hospital] Ochoa Gómez FJ, et al. **An Med Interna** 1996 Jun;13(6):265–8 (Eng. Abstr.) **(Spa)**

[Cardiopulmonary resuscitation in hospitalized patients in conventional units. Prospective study of 356 consecutive cases. Commission for Care of Cardiorespiratory Arrest (see comments)] Fontanals J, et al. **Med Clin (Barc)** 1997 Mar 29;108(12):441–5 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Mar 29;108(12):455–7. **(Spa)**

[Cardiopulmonary resuscitation admitted to units of conventional hospitalization (editorial; comment)] García-Guasch R, et al. **Med Clin (Barc)** 1997 Mar 29; 108(12):455–7. Comment on: Med Clin (Barc) 1997 Mar 29;108(12):441–5. **(Spa)**

[More effective resuscitation in a special ambulance. Increased survival after cardiac arrest in Gothenburg] Herlitz J, et al. **Lakartidningen** 1996 Nov 27;93(48):4453–6, 4459 **(Swe)**

ADVERSE EFFECTS

Serious complications from active compression-decompression cardiopulmonary resuscitation. Rabl W, et al. **Int J Legal Med** 1996; 109(2):84–9

Tension pneumoperitoneum. Burdett-Smith P, et al. **J Accid Emerg Med** 1996 May;13(3):220–1

Liver rupture after cardiopulmonary resuscitation in a patient receiving thrombolytic therapy. Druwé PM, et al. **Resuscitation** 1996 Oct;32(3):213–6

Spectral analysis of ventricular fibrillation and closed-chest cardiopulmonary resuscitation. Strohmenger HU, et al. **Resuscitation** 1996 Dec;33(2):155–61

Tracheal rupture after emergency intubation during cardiopulmonary resuscitation. Wagner A, et al. **Resuscitation** 1995 Dec;30(3):263–66

[Comment on the contribution by Adams H.A., Hempelmann G., Beigl B., Schmitz C.S.: Specific risks in active compression-decompression in cardiopulmonary resuscitation (letter; comment)] Deller A, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Mar; 32(3):201–2. Comment on: Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Jun;31(5):325–7. **(Ger)**

[Oxytocin improves recovery of the neurological status after a 10-min heart arrest in rats] Misharina GV, et al. **Biull Eksp Biol Med** 1994 May;117(5):459–61 **(Rus)**

[Contralateral pneumothorax occurring during cardiopulmonary resuscitation] Duzhii ID. **Lik Sprava** 1997 Jan-Feb;(1):106–8 (6 ref.) (Eng. Abstr.) **(Rus)**

ECONOMICS

Cardiopulmonary resuscitation: what cost to cheat death? Lee KH, et al. **Crit Care Med** 1996 Dec;24(12):2046–52 (51 ref.)

EDUCATION

Problem-based advance cardiac life support [letter] Polglase R, et al. **Acad Emerg Med** 1996 Feb;3(2):184–7

The psychological consequences of cardiopulmonary resuscitation training for family members of patients at risk for sudden death. Dracup K, et al. **Am J Public Health** 1997 Sep;87(9):1434–9

Effectiveness of the BBC's 999 training roadshows on cardiopulmonary resuscitation: video performance of cohort of unforewarned participants at home six months afterwards [see comments] Morgan CL, et al. **BMJ** 1996 Oct 12;313(7062):912–6. Comment in: BMJ 1997 Jan 18;314(7075):222.

Evaluation of a dental practice cardiopulmonary resuscitation training scheme. Chate RA. **Br Dent J** 1996 Dec 7-21; 181(11-12):416–20

Second chance [editorial] Vaillancourt C. **Can Fam Physician** 1997 Jun;43:1033–4, 1036–7 **(Eng, Fre)**

Mandatory CPR training for students may improve cardiac-arrest survival rate, MDs say. Lyttle J. **Can Med Assoc J** 1996 Oct 15;155(8):1172–4

Teaching advanced life support skills [letter] Hulbert D, et al. **J Accid Emerg Med** 1996 May;13(3):229–30

Resuscitation training: a time for reassessment. Mancini ME, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):71–84 (90 ref.)

The American Heart Association and emergency cardiac care training in Louisiana--past, present, and future. Sea C. **J La State Med Soc** 1997 May;149(5):168–71

Cardiopulmonary resuscitation on television [letter; comment] Chheda M, et al. **N Engl J Med** 1996 Nov 21; 335(21):1606; discussion 1607. Comment on: N Engl J Med 1996 Jun 13;334(24):1578–82. Comment on: N Engl J Med 1996 Jun 13;334(24):1604–5.

Revising educational requirements: challenging four hours for both basic life support and automated external defibrillators. Amith G. **New Horiz** 1997 May;5(2):167–72

Is CPR training based on practice that ensures reliable performance? Wilson J. **Occup Health Saf** 1994 Oct; 63(10):152–6, 158

Community life support training: does it attract the right people? Lester C, et al. **Public Health** 1997 Sep;111(5):293–6

CPR training without an instructor: development and evaluation of a video self-instructional system for effective performance of cardiopulmonary resuscitation. Braslow A, et al. **Resuscitation** 1997 Jun;34(3):207–20

A reliable and valid method for evaluating cardiopulmonary resuscitation training outcomes. Brennan RT, et al. **Resuscitation** 1996 Sep;32(2):85–93

Community cardiac awareness teaching in a rural area: the potential for a health promotion message. Bury G, et al. **Resuscitation** 1996 Dec;33(2):141–5

Checking the carotid pulse check: diagnostic accuracy of first responders in patients with and without a pulse. Eberle B, et al. **Resuscitation** 1996 Dec;33(2):107–16

Ethnicity and proficiency in English as factors affecting community cardiopulmonary resuscitation (CPR) class attendance. Flabouris A. **Resuscitation** 1996 Sep; 32(2):95–103

Cardiopulmonary resuscitation training for UK undergraduate dental students. Graham CA, et al. **Resuscitation** 1996 Sep;32(2):105–8

Teaching school children cardiopulmonary resuscitation [letter; comment] Heath J, et al. **Resuscitation** 1996 Sep; 32(2):159–60. Comment on: Resuscitation 1996 Feb;31(1):33–8.

Evaluation of cardiopulmonary resuscitation skills of general practitioners using different scoring methods. Jansen JJ, et al. **Resuscitation** 1997 Feb;34(1):35–41

Assessing with CARE: an innovative method of testing the approach and casualty assessment components of basic life support, using video recording. Lester CA, et al. **Resuscitation** 1997 Feb;34(1):43–9

The teaching of cardiopulmonary resuscitation in schools in Hampshire. Lewis RM, et al. **Resuscitation** 1997 Aug; 35(1):27–31

Pediatric basic and advanced life support courses: first experience in Spain. López-Herce J, et al. **Resuscitation** 1996 Nov;33(1):43–8

Airway management training using the laryngeal mask airway: a comparison of two different training programmes. Roberts I, et al. **Resuscitation** 1997 Jan;33(3):211–4

Active compression-decompression cardiopulmonary resuscitation--instructor and student manual for teaching and training. Part I: The workshop. Schneider T, et al. **Resuscitation** 1996 Oct;32(3):203–6

Training of medical students in resuscitation at the University of Ljubljana. Starc B, et al. **Resuscitation** 1996 Jul; 32(1):19–22

Active compression-decompression cardiopulmonary resuscitation--instructor and student manual for teaching and training. Part II: A student and instructor manual. Wik L, et al. **Resuscitation** 1996 Oct;32(3):206–12

[A report on the present status of education in cardiopulmonary resuscitation] **Masui** 1996 Jun; 45(6):774–81 **(Jpn)**

HISTORY

Introduction to Wolf Creek IV Conference. Safar P. **New Horiz** 1997 May;5(2):97–105

INSTRUMENTATION

Phased chest and abdominal compression-decompression. A new option for cardiopulmonary resuscitation. Tang W, et al. **Circulation** 1997 Mar 4;95(5):1335–40

Basic-CPR and AIDS: are volunteer life-savers prepared for a storm? Bierens JJ, et al. **Resuscitation** 1996 Oct; 32(3):185–91

Active compression-decompression resuscitation: the influence of different chest geometries on the force transmission. Haid C, et al. **Resuscitation** 1997 Aug; 35(1):83–5

[New mechanical methods for cardiopulmonary resuscitation (CPR). Literature study and analysis of effectiveness] Lindner KH, et al. **Anaesthesist** 1997 Mar;46(3):220–30 (51 ref.) (Eng. Abstr.) **(Ger)**

[Experiences with the pulse oximeter during preclinical cardiopulmonary resuscitation] Stratmann B, et al. **Unfallchirurg** 1997 Jun;100(6):465–8 (Eng. Abstr.) **(Ger)**

METHODS

Critical aspects of active compression-decompression CPR. Baubin M, et al. **Acta Anaesthesiol Scand Suppl** 1996; 109:109–11

Active compression-decompression versus standard cardiopulmonary resuscitation in a porcine model: no improvement in outcome. Kern KB, et al. **Am Heart J** 1996 Dec;132(6):1156–62

Efficacy of cardiopulmonary resuscitation using intratracheal insufflation. Brochard L, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1323–9

Endobronchial vasopressin improves survival during cardiopulmonary resuscitation in pigs. Wenzel V, et al. **Anesthesiology** 1997 Jun;86(6):1375–81

Effects of simulated mouth-to-mouth ventilation during external cardiac compression or active compression-decompression in a swine model of witnessed cardiac arrest. Engoren M, et al. **Ann Emerg Med** 1997 May;29(5):607–15

Percutaneous cardiopulmonary support for the management of catastrophic mechanical complications of acute myocardial infarction. Aliabadi D, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):223–6

Assisted ventilation does not improve outcome in a porcine model of single-rescuer bystander cardiopulmonary resuscitation. Berg RA, et al. **Circulation** 1997 Mar 18; 95(6):1635–41

Benefit of active compression-decompression cardiopulmonary resuscitation as a prehospital advanced cardiac life support. A randomized multicenter study. Plaisance P, et al. **Circulation** 1997 Feb 18;95(4):955–61

Phased chest and abdominal compression-decompression. A new option for cardiopulmonary resuscitation. Tang W, et al. **Circulation** 1997 Mar 4;95(5):1335–40

Mechanisms of cardiopulmonary resuscitation in a patient with right ventricular dilatation--an echocardiographic contribution. Gilon D, et al. **Clin Cardiol** 1996 Jan; 19(1):69–70

Effects of intra-aortic balloon occlusion on hemodynamics during, and survival after cardiopulmonary resuscitation in dogs. Rubertsson S, et al. **Crit Care Med** 1997 Jun; 25(6):1003–9

Adverse effects of interrupting precordial compression during cardiopulmonary resuscitation. Sato Y, et al. **Crit Care Med** 1997 May;25(5):733–6

Cardiopulmonary resuscitation in the prone position: Kouwenhoven revisited [letter] Dequin PF, et al. **Intensive Care Med** 1996 Nov;22(11):1272

Comparison of cardiopulmonary resuscitation techniques using video camera recordings. Mann CJ, et al. **J Accid Emerg Med** 1996 May;13(3):198–9

Basic life support: controversial and unresolved issues. Hazinski MF. **J Cardiovasc Nurs** 1996 Jul;10(4):1–14 (63 ref.)

Developing and revising the American Heart Association guidelines for advanced cardiac life support. Kirby AK, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):15–23

Early defibrillation: lessons learned. O'Hearn P. **J Cardiovasc Nurs** 1996 Jul;10(4):24–36 (64 ref.)

Cardiopulmonary resuscitation in children [letter; comment] Fruchter O. **N Engl J Med** 1997 May 1;336(18):1325; discussion 1325–6. Comment on: N Engl J Med 1996 Nov 14;335(20):1473–9.

Human research on cardiopulmonary resuscitation: current constraints on implementation. Cummins RO. **New Horiz** 1997 May;5(2):120–7 (82 ref.)

Alternatives to conventional chest compression. Halle AA 3rd. **New Horiz** 1997 May;5(2):112–9

Research on CPR: reordering priorities. Weil MH. **New Horiz** 1997 May;5(2):106–11

Tidal volumes which are perceived to be adequate for resuscitation [letter; comment] Bar-Joseph G, et al. **Resuscitation** 1997 Jan;33(3):281–2. Comment on: Resuscitation 1996 Jun;31(3):231–4.

Rescuer's work capacity and duration of cardiopulmonary resuscitation. Baubin M, et al. **Resuscitation** 1996 Dec; 33(2):135–9

Active compression–decompression cardiopulmonary resuscitation in standing position over the patient: pros and cons of a new method. Baubin M, et al. **Resuscitation** 1997 Feb;34(1):7–10

Effects of manual high-impulse CPR on myocardial perfusion during cardiac arrest in pigs. Behringer W, et al. **Resuscitation** 1997 Jun;34(3):271–9

Future directions for resuscitation research. I. Advanced airway control measures. Benson D, et al. **Resuscitation** 1996 Jul;32(1):51–62 (51 ref.)

Future directions for resuscitation research. II. External cardiopulmonary resuscitation basic life support. Bircher N, et al. **Resuscitation** 1996 Jul;32(1):63–75 (68 ref.)

Automated external versus blind manual defibrillation by untrained lay rescuers. Fromm RE Jr, et al. **Resuscitation** 1997 Jan;33(3):219–21

The relationship between rate of chest compression and compression:relaxation ratio. Handley AJ, et al. **Resuscitation** 1995 Dec;30(3):237–41

Continuation of CPR on admission to emergency department after out-of-hospital cardiac arrest. Occurrence, characteristics and outcome [see comments] Herlitz J, et al. **Resuscitation** 1997 Jan;33(3):223–31. Comment in: Resuscitation 1997 Jan;33(3):197–8.

Lidocaine in out-of-hospital ventricular fibrillation. Does it improve survival? Herlitz J, et al. **Resuscitation** 1997 Jan; 33(3):199–205

Lidocaine: work still in progress [editorial; comment] Koster RW. **Resuscitation** 1997 Jan;33(3):197–8. Comment on: Resuscitation 1997 Jan;33(3):223–31.

Hemodynamic effects of active compression–decompression after prolonged CPR. Malzer R, et al. **Resuscitation** 1996 Jun;31(3):243–53

Active compression–decompression resuscitation: a prospective, randomized study in a two–tiered EMS system with physicians in the field. Mauer D, et al. **Resuscitation** 1996 Dec;33(2):125–34

Efficacy vs. effectiveness: the case of active compression–decompression (ACD) CPR [editorial] Ornato JP. **Resuscitation** 1997 Feb;34(1):3–5 (27 ref.)

Future directions for resuscitation research. III. External cardiopulmonary resuscitation advanced life support. Ornato JP, et al. **Resuscitation** 1996 Sep;32(2):139–58 (128 ref.)

ACD versus standard CPR in a prehospital setting. Panzer W, et al. **Resuscitation** 1996 Dec;33(2):117–24

Active compression–decompression cardiopulmonary resuscitation (ACD–CPR) compared with standard CPR in a manikin model--decompression force, compression rate, depth and duration. Skogvoll E, et al. **Resuscitation** 1997 Feb;34(1):11–6

Quality of mechanical, manual standard and active compression–decompression CPR on the arrest site and during transport in a manikin model. Sunde K, et al. **Resuscitation** 1997 Jun;34(3):235–42

Asphyxiation versus ventricular fibrillation cardiac arrest in dogs. Differences in cerebral resuscitation effects--a preliminary study. Vaagenes P, et al. **Resuscitation** 1997 Aug;35(1):41–52

A comparison of prolonged manual and mechanical external chest compression after cardiac arrest in dogs. Wik L, et al. **Resuscitation** 1996 Oct;32(3):241–50

The first European pre–hospital active compression–decompression (ACD) cardiopulmonary resuscitation workshop: a report and a review of ACD–CPR. Wik L, et al. **Resuscitation** 1995 Dec; 30(3):191–202 (40 ref.)

Acute thyroid hormone administration increases systemic oxygen delivery and consumption immediately following resuscitation from cardiac arrest without changes in thyroid–stimulating hormone. Zwemer CF, et al. **Resuscitation** 1997 Jan;33(3):271–80

Cytosolic Ca2+ concentration and contraction–relaxation properties of ventricular myocytes from Escherichia coli endotoxemic guinea pigs: effect of fluid resuscitation. Zhong J, et al. **Shock** 1997 May;7(5):383–8

[Active compression–decompression resuscitation. Improved survival rate in an emergency medicine system with emergency physician assistance?] Mauer D, et al. **Med Klin** 1997 Jul 15;92(7):381–8 (Eng. Abstr.) **(Ger)**

[National Consensus on Cardiorespiratory Resuscitation] **Arq Bras Cardiol** 1996 Jun;66(6):375–402 **(Por)**

[Intensive therapy and cardiopulmonary resuscitation in the sudden cessation of efficient cardiac activity] Ivanov GG, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):70–80 **(Rus)**

[The current approaches to performing cardiopulmonary resuscitation] Polushin IuS, et al. **Voen Med Zh** 1996 Nov; 317(11):18–22 **(Rus)**

[Basic cardiopulmonary resuscitation in the mountains and other isolated situations] Botella de Maglia J. **Rev Clin Esp** 1997 Feb;197(2):112–8 (74 ref.) **(Spa)**

MORTALITY

In–hospital resuscitation among the elderly: substantial survival to hospital discharge. Varon J, et al. **Am J Emerg Med** 1996 Mar;14(2):130–2

Cardiopulmonary resuscitation on television [letter; comment] Markert RJ, et al. **N Engl J Med** 1996 Nov 21; 335(21):1605; discussion 1607. Comment on: N Engl J Med 1996 Jun 13;334(24):1578–82.

Predicting in–hospital mortality during cardiopulmonary resuscitation. Schultz SC, et al. **Resuscitation** 1996 Nov; 33(1):13–7

NURSING

Nurses' accounts of cardiopulmonary resuscitation. Page S, et al. **J Adv Nurs** 1996 Aug;24(2):317–25

Ethical considerations in resuscitation decisions: a nursing ethics perspective. Ivy SS. **J Cardiovasc Nurs** 1996 Jul; 10(4):47–58 (41 ref.)

"Coding" the patient with cancer: nurses facilitate family acceptance and grief. Boyle DM. **Oncol Nurs Forum** 1997 Apr;24(3):458

PSYCHOLOGY

The psychological consequences of cardiopulmonary resuscitation training for family members of patients at risk for sudden death. Dracup K, et al. **Am J Public Health** 1997 Sep;87(9):1434–9

Cardiopulmonary resuscitation in the elderly [letter; comment] Stewart K, et al. **J Med Ethics** 1996 Jun; 22(3):181–2. Comment on: J Med Ethics 1995 Feb;21(1):39–44.

STANDARDS

Recommended guidelines for reviewing, reporting, and conducting research on in–hospital resuscitation: the in–hospital "Utstein style". A statement for health care professionals from the American Heart Association, the European Resuscitation Council, the Heart and Stroke Foundation of Canada, the Australian Resuscitation Council, and the Resuscitation Councils of Southern Africa [see comments] **Acad Emerg Med** 1997 Jun;4(6):603–27. Comment in: Acad Emerg Med 1997 Jun;4(6):536–7.

Recommended guidelines for reviewing, reporting, and conducting research on in–hospital resuscitation: the in–hospital "Utstein style". American Heart Association. Cummins RO, et al. **Ann Emerg Med** 1997 May; 29(5):650–79

Hyperthermia–induced cardiac arrest in monkeys: limited efficacy of standard CPR. Eshel G, et al. **Aviat Space Environ Med** 1997 May;68(5):415–20

In–hospital resuscitation: a statement for healthcare professionals from the American Heart Association Emergency Cardiac Care Committee and the Advanced Cardiac Life Support, Basic Life Support, Pediatric Resuscitation, and Program Administration Subcommittees. Cummins RO, et al. **Circulation** 1997 Apr 15;95(8):2211–2

Recommended guidelines for reviewing, reporting, and conducting research on in–hospital resuscitation: the in–hospital 'Utstein style'. American Heart Association. Cummins RO, et al. **Circulation** 1997 Apr 15;95(8):2213–39

Outcome of cardiopulmonary resuscitation in a Portuguese university hospital. Araújo R, et al. **Eur J Emerg Med** 1997 Jun;4(2):81–6

From Jezebel to a dead man walking: attempting resuscitation in long–term care [editorial; comment] Finucane TE, et al. **J Am Geriatr Soc** 1997 Feb;45(2):245–6. Comment on: J Am Geriatr Soc 1997 Feb;45(2):154–7.

The association between age of hospitalized patients and the delivery of advanced cardiac life support. Fried TR, et al. **J Gen Intern Med** 1996 May;11(5):257–61

Quality of mechanical, manual standard and active compression–decompression CPR on the arrest site and during transport in a manikin model. Sunde K, et al. **Resuscitation** 1997 Jun;34(3):235–42

[When should we stop cardiopulmonary resuscitation in patients brought to the emergency room in cardiac arrest without pre–hospital care?] César LA, et al. **Arq Bras Cardiol** 1996 Nov;67(5):339–42 (Eng. Abstr.) **(Por)**

STATISTICS & NUMERICAL DATA

Failure of three decision rules to predict the outcome of in–hospital cardiopulmonary resuscitation. Ebell MH, et al. **Med Decis Making** 1997 Apr–Jun;17(2):171–7

Data collection and retrieval to document the outcomes of cardiopulmonary resuscitation. Cobb LA. **New Horiz** 1997 May;5(2):164–6

Overestimation of the effectiveness of cardiopulmonary resuscitation. Kostoulakos NM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1409–10

One–year survival after out–of–hospital cardiac arrest in Bonn city: outcome report according to the 'Utstein style'. Fischer M, et al. **Resuscitation** 1997 Jan;33(3):233–43

The decision to terminate resuscitative efforts: results of a questionnaire. Mohr M, et al. **Resuscitation** 1997 Feb; 34(1):51–5

TRENDS

Recent advances in cardiopulmonary resuscitation. Lurie KG, et al. **J Cardiovasc Electrophysiol** 1997 May; 8(5):584–600 (86 ref.)

Comparison of the reluctance of house staff of metropolitan and suburban hospitals to perform mouth–to–mouth resuscitation. Brenner B, et al. **Resuscitation** 1996 Jul; 32(1):5–12

Future directions for resuscitation research. IV. Innovative advanced life support pharmacology. Brown C, et al. **Resuscitation** 1996 Dec;33(2):163–77 (159 ref.)

UTILIZATION

Outcome in low risk pregnancies. Arya R, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F97–102

Cardiopulmonary resuscitation policies in long–term care facilities [see comments] Kane RS, et al. **J Am Geriatr Soc** 1997 Feb;45(2):154–7. Comment in: J Am Geriatr Soc 1997 Feb;45(2):245–6.

Resuscitation decisions in the elderly: a discussion of current thinking. Bruce–Jones PN. **J Med Ethics** 1996 Oct; 22(5):286–91 (62 ref.)

Predicting survival from out–of–hospital cardiac arrest: a multivariate analysis. Weston CF, et al. **Resuscitation** 1997 Feb;34(1):27–34

CARDIOSPASM see **ESOPHAGEAL ACHALASIA**

CARDIOTOCOGRAPHY

Abnormal fetal behavior and cardiotocography associated with a congenital meningo–encephalitis. Fox R, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):774–6

Doppler velocimetry and nonstress test for predicting outcome of pregnancies with decreased fetal movements. Dubiel M, et al. **Am J Perinatol** 1997 Mar;14(3):139–44

Latex allergy to the tape of the cardio–tocograph [letter] Konrad C, et al. **Anesth Analg** 1997 Jan;84(1):230

Absence of fetal corpus callosum associated with intrapartum cardiotocographic nonreactivity. Cincotta R, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):450–2

The intrapartum CTG prior to neonatal encephalopathy at term: a case–control study. Spencer JA, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):25–8

Clinical features of and cardiotocographic findings for premature infants with antenatal periventricular leukomalacia. Ito T, et al. **Early Hum Dev** 1997 Jan 20; 47(2):195–201

The efficacy of intrapartum fetal surveillance when fetal pulse oximetry is added to cardiotocography. van den Berg PP, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72 Suppl:S67–71

Cerebral palsy and electronic fetal monitoring. Karthikeyna G. **Indian Pediatr** 1996 Oct;33(10):887–9

Search for the most predictive tests of fetai well–being in early labor. Chua S, et al. **J Perinat Med** 1996;24(3):199–206

Reactive nonstress test despite severe congenital brain damage. What does the test measure? Cardosi RJ, et al. **J Reprod Med** 1997 Apr;42(4):251–2

Cardiotocography versus Doppler. Black RS, et al. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):148–51

Cardiotocogram compared to Doppler investigation of the fetal circulation in the premature growth–retarded fetus: longitudinal observations. Hecher K, et al. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):152–61

Fluctuation of cardiotocographic tracings during labor in fetal growth retardation. Nieto A, et al. **Zentralbl Gynakol** 1996;118(12):655–8

[Intensive fetal monitoring sub partu or the quality of clinical

research (see comments)] Schneider H.
Geburtshilfe Frauenheilkd 1996 Aug;56(8):397–400 (7 ref.) (Eng. Abstr.). Comment in: Geburtshilfe Frauenheilkd 1996 Aug;56(8):M126–9. **(Ger)**

[Fetal heart rate and acidosis] Butterwegge M, et al.
Z Geburtshilfe Neonatol 1997 Jan–Feb;201(1):30–3 **(Ger)**

[Heart rate accelerations in the fetus during fetal blood sampling sub partu] Tzanov G, et al.
Z Geburtshilfe Neonatol 1997 Jan–Feb;201(1):6–10 (Eng. Abstr.) **(Ger)**

[Cardiotocographic changes after umbilical cord puncture and umbilical cord transfusion] Gremm B, et al.
Zentralbl Gynakol 1997;119(4):173–6 (Eng. Abstr.) **(Ger)**

[Pre–pathologic–pathologic cardiotocographic pattern in second stage of labor. Analysis of the incidence of acidosis and recommendations for fetal blood gas analysis] Schlotter CM. **Zentralbl Gynakol** 1997;119(3):117–22 (Eng. Abstr.) **(Ger)**

[The duration of the outpatient nonstress test (NST) and the diagnosis of fetal reactivity with noncomputerized cardiotocography, A critical review of 1160 tracings] Cito G. **Minerva Ginecol** 1997 Jan–Feb;49(1–2):35–8 (Eng. Abstr.) **(Ita)**

[Screening for bacterial vaginosis in a population of pregnant women reporting to cardiotocographic tests] Cito G.
Minerva Ginecol 1996 Nov;48(11):481–4 (Eng. Abstr.) **(Ita)**

DRUG EFFECTS

[Kinetocardiotocography—follow–up of diazepam poisoning] Heinrich J. **Zentralbl Gynakol** 1996; 118(12):689–92 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

[Critique of the quality of clinical studies of intensive fetal monitoring sub partu and subsequent conclusions. Final comment on the article by H. Schneider: "Intensive fetal monitoring sub partu or the quality of clinical research" (letter; comment)] Saling E. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):M126–9. Comment on: Geburtshilfe Frauenheilkd 1996 Aug;56(8):397–400. **(Ger)**

METHODS

Developments in CTG analysis. Van Geijn HP.
Baillieres Clin Obstet Gynaecol 1996 Jun;10(2):185–209 (135 ref.)

Intrapartum assessment of uterine activity. Vanner T, et al.
Baillieres Clin Obstet Gynaecol 1996 Jun;10(2):243–57 (52 ref.)

Randomised controlled trial of cardiotocography versus umbilical artery Doppler in the management of small for gestational age fetuses. Haley J, et al.
Br J Obstet Gynaecol 1997 Apr;104(4):431–5

Chaos theory and power spectrum analysis in computerized cardiotocography. Bozóki Z.
Eur J Obstet Gynecol Reprod Biol 1997 Feb;71(2):163–8

Fetal heart rate tracings: observers versus computer assessment. Todros T, et al.
Eur J Obstet Gynecol Reprod Biol 1996 Sep;68(1–2):83–6

STATISTICS & NUMERICAL DATA

Evaluation of interobserver agreement of cardiotocograms. Bernardes J, et al. **Int J Gynaecol Obstet** 1997 Apr; 57(1):33–7

CARDIOTONIC AGENTS

Cardioprotective effect of taurine on calcium paradox in streptozotocin–induced diabetic rat hearts. Tatsumi T, et al. **Adv Exp Med Biol** 1996;403:539–49

Premedication with the opioid analgesic butorphanol raises the threshold for ischemic preconditioning in dogs. Schwartz LM, et al. **Basic Res Cardiol** 1997 Apr; 92(2):106–14

Phloridzin derivatives; food additives/chemopreventative drugs of the future. Ridgway T, et al.
Biochem Soc Trans 1997 Feb;25(1):109S

Prospects for the production and use of new improved dietary oestrogens for cardioprotection. Ridgway TJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):59–63 (28 ref.)

Oestrogens as antioxidant cardioprotectants. Wiseman H, et al. **Biochem Soc Trans** 1997 Feb;25(1):54–9 (48 ref.)

Influence of the dietary flavonoid quercetin on the cardioprotective antioxidant action of oestrogen and phytoestrogens. Wiseman H, et al. **Biochem Soc Trans** 1997 Feb;25(1):108S

The cardioprotective antioxidant activity of dietary phytoestrogens compared to oestrogen. Wiseman H, et al. **Biochem Soc Trans** 1997 Feb;25(1):107S

ADMINISTRATION & DOSAGE

Intermittent inotropic therapy in an outpatient setting: a cost–effective therapeutic modality in patients with refractory heart failure. Marius–Nunez AL, et al.
Am Heart J 1996 Oct;132(4):805–8

Effects of zatebradine (ULFS 49 CL), a sinus node inhibitor, on heart rate and exercise duration in chronic stable angina pectoris. Zatebradine Investigators. Glasser SP, et al.
Am J Cardiol 1997 May 15;79(10):1401–5

Dose dependence of chronic positive inotropic effect of vesnarinone in patients with congestive heart failure due to idiopathic or ischemic cardiomyopathy. Kass DA, et al. **Am J Cardiol** 1996 Sep 15;78(6):652–6

Phenylephrine and inhaled nitric oxide in adult respiratory distress syndrome. When are two better than one? [editorial; comment] Pearl RG. **Anesthesiology** 1997 Jul;87(1):1–3 (16 ref.). Comment on: Anesthesiology 1997 Jul;87(1):18–25.

Update on digoxin and other oral positive inotropic agents for chronic heart failure. Reddy S, et al.
Curr Opin Cardiol 1997 May;12(3):233–41 (74 ref.)

Induction of cardiac angiotensinogen mRNA and angiotensin converting enzyme (ACE) activity in isoproterenol–induced heart injury. Ogiku N, et al.
Hypertens Res 1996 Sep;19(3):179–87

Does digoxin provide additional hemodynamic and autonomic benefit at higher doses in patients with mild to moderate heart failure and normal sinus rhythm? Slatton ML, et al. **J Am Coll Cardiol** 1997 May;29(6):1206–13

Effects of prolonging peak dobutamine dose during stress echocardiography. Weissman NJ, et al.
J Am Coll Cardiol 1997 Mar 1;29(3):526–30

A placebo–controlled trial verifying the efficacy of milrinone in weaning high–risk patients from cardiopulmonary bypass. Doolan LA, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):37–41

Optimum dose of digoxin [letter; comment] Behr ER, et al. **Lancet** 1997 Jun 21;349(9068):1845. Comment on: Lancet 1997 May 3;349(9061):1326–7.

Dose of digoxin prescribed in the UK compared with France and the USA [see comments] Saunders KB, et al.
Lancet 1997 Mar 22;349(9055):833–6. Comment in: Lancet 1997 May 3;349(9061):1326–7. Comment in: Lancet 1997 Jun 21;349(9068):1845.

Optimum dose of digoxin [letter; comment] Zuccalá G, et al. **Lancet** 1997 Jun 21;349(9068):1845. Comment on: Lancet 1997 Mar 22;349(9055):833–6.

Ouabain improves cardiac function in vivo in rats with heart failure after chronic but not acute treatment. Nelissen–Vrancken HJ, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 Aug; 356(2):203–9

Hemodynamic response to intentionally altered flow continuity of dobutamine and dopamine by an infusion pump in infants. Stowe CD, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1018–23

[Differential therapy of cardiogenic shock with dopamine/milrinone in comparison with dopamine/dobutamine] Meissner A, et al. **Z Kardiol** 1996 Nov;85(11):839–46 (Eng. Abstr.) **(Ger)**

[The new potassium channel blocker tedisamil and its hemodynamic, anti–ischemic and neurohumoral effect in patients with coronary heart disease] Mitrovic V, et al. **Z Kardiol** 1996 Dec;85(12):961–72 (Eng. Abstr.) **(Ger)**

[Epidural anesthesia for herniorrhaphy in a patient with severe dilated cardiomyopathy (DCM) under pimobendan control] Shiraishi M, et al. **Masui** 1997 Jan;46(1):114–8 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Dobutamine–induced ST segment elevation and ventricular fibrillation with nonsignificant coronary artery disease. Shaheen J, et al. **Am Heart J** 1996 Nov;132(5):1058–60

Hemodynamic analysis during isoproterenol–induced vasovagal syncope. Shen WK, et al. **Am J Cardiol** 1997 Sep 15;80(6):817–22

Nausea and malaise during treatment of coccidioidomycosis. Lopez F, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):21–2

Safety of levosimendan and other calcium sensitizers. Lehtonen L, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S70–6

Itraconazole–related amaurosis and vomiting due to digoxin toxicity [letter] Cone LA, et al. **West J Med** 1996 Nov; 165(5):322

[Intraventricular obstructions in dobutamine stress echocardiography: determinants of their development and clinical sequelae] Wagner S, et al. **Z Kardiol** 1997 May; 86(5):327–35 (Eng. Abstr.) **(Ger)**

[Effect of verapamil on left ventricular hypertrophy induced by isoproterenol] Bombig MT, et al. **Arq Bras Cardiol** 1996 Aug;67(2):81–5 (Eng. Abstr.) **(Por)**

ANALYSIS

Enantiomeric bioanalysis of simendan and levosimendan by chiral high–performance liquid chromatography. Wikberg T, et al. **Chirality** 1996;8(7):511–517

Immunoassay of digoxin in hair. Deveaux M, et al.
Forensic Sci Int 1997 Jan 17;84(1–3):219–23

Gas chromatographic/mass spectrometric analysis of methyl methanesulphonate and ethyl methanesulphonate in the bismesylate salt of DPI 201–106, a positive inotropic agent for the treatment of heart failure. Ramjit HG, et al.
J Mass Spectrom 1996 Aug;31(8):867–72

ANTAGONISTS & INHIBITORS

The positive inotropic effect of alpha 1A–adrenoceptor stimulation is inhibited by 4–aminopyridine. Williamson AP, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):73–80

BLOOD

The serum digoxin concentration: ten questions to ask. Cauffield JS, et al. **Am Fam Physician** 1997 Aug; 56(2):495–503, 509–10 (22 ref.)

Automated analysis of levosimendan in human plasma by on–line dialysis and liquid chromatography. Karlsson M, et al. **Biomed Chromatogr** 1997 Jan–Feb;11(1):54–8

A possible interaction of potential clinical interest between digoxin and acarbose. Serrano JS, et al.
Clin Pharmacol Ther 1996 Nov;60(5):589–92

Quantitation of interference in digoxin immunoassay in renal, hepatic, and diabetic disease. Tzou MC, et al.
Clin Pharmacol Ther 1997 Apr;61(4):429–41

Investigation into the possible mechanisms involved in altered digoxin levels in diabetic patients. Joshi SD, et al.
Indian J Physiol Pharmacol 1996 Jan;40(1):65–9

Cardiac surgery and plasma digoxin levels. Anaokar SM, et al. **J Assoc Physicians India** 1996 Oct;44(10):694–7

Fluorescence detection of cardenolides in reversed–phase high–performance liquid chromatography after post–column derivatization. Belsner K, et al.
J Chromatogr B Biomed Appl 1996 Jun 28;682(1):95–107

High–performance liquid chromatography–ionspray mass spectrometry for the specific determination of digoxin and some related cardiac glycosides in human plasma. Tracqui A, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25; 692(1):101–9

Different methods for measuring endogenous digitalis–like factor(s). Paci A, et al. **J Pharm Biomed Anal** 1996 Jun; 14(8–10):983–8

Specific and sensitive determination of digoxin and metabolites in human serum by high performance liquid chromatography with cyclodextrin solid–phase extraction and precolumn fluorescence derivatization. Tzou MC, et al. **J Pharm Biomed Anal** 1995 Nov;13(12):1531–40

Digoxin concentrations in Indian patients [letter; comment] [see comments] Joglekar SJ, et al. **Lancet** 1997 May 3; 349(9061):1326–7. Comment on: Lancet 1997 Mar 22;349(9055):833–6. Comment in: Lancet 1997 Jun 21;349(9068):1845.

Digoxin for patients with heart failure in sinus rhythm [letter; comment] Saunders KB. **Lancet** 1997 Aug 16;350(9076):519 . Comment on: Lancet 1997 Jun 28;349(9069):1854–5.

Digoxin in patients with heart failure [letter; comment] Soto J, et al. **N Engl J Med** 1997 Jul 10;337(2):129; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

A simple, automated, nonextraction assay for serum digoxin using particle–enhanced immunoassay. Davey CL, et al.
Ther Drug Monit 1997 Feb;19(1):108–11

Enzyme–multiplied immunoassay (EMIT 2000) digoxin assay compared with fluorescence polarization immunoassay and amerlex 125I–radioimmunoassay at two Australian centers. Saccoia NC, et al. **Ther Drug Monit** 1996 Dec;18(6):672–7

CHEMICAL SYNTHESIS

Synthesis and cardiotonic activity of certain imidazo[2,1–b]–1,3,4–thiadiazole derivatives. el–Sherbeny MA, et al. **Boll Chim Farm** 1997 Mar;136(3):253–6

Synthesis and biological activities of optically active 6–[3–(3,4–dimethoxybenzylamino)–2–hydroxypropoxy]–2 (1H)–quinolinone (OPC–18790). Fujioka T, et al.
Chem Pharm Bull (Tokyo) 1996 Aug;44(8):1596–8

The biological activity of two symmetric amine derivatives of the cis–syn–cis triquinane system. Liebenberg W, et al.
Pharmazie 1996 Jan;51(1):20–4

CHEMISTRY

Studies on cardiac ingredients of plants. XIII: Chemical modification of gitoxin to cardiotonic compounds without vascular effect. Nagatsu A, et al.
Chem Pharm Bull (Tokyo) 1997 Apr;45(4):599–607

Enantiomeric bioanalysis of simendan and levosimendan by chiral high–performance liquid chromatography. Wikberg T, et al. **Chirality** 1996;8(7):511–517

The role of exposed tryptophan residues in the activity of the cardiotonic polypeptide anthopleurin B. Dias–Kadambi BL, et al. **J Biol Chem** 1996 Sep 27;271(39):23828–35

Synthesis and cardiotonic activity of novel pyrimidine derivatives: crystallographic and quantum chemical studies. Dorigo P, et al. **J Med Chem** 1996 Sep 13;39(19):3671–83

DIAGNOSTIC USE

Left ventricular cavitary geometry and dynamic intracavitary left ventricular obstruction during dobutamine stress echocardiography. Hashimoto Y, et al.
Am J Card Imaging 1996 Jul;10(3):163–9

Noninvasive evaluation of patients with peripheral vascular disease scheduled to undergo surgery: dobutamine stress echocardiography versus myocardial perfusion imaging [see comments] Kovács A, et al. **Am J Card Imaging** 1996 Apr;10(2):133–42 (58 ref.). Comment in: Am J Card Imaging 1996 Apr;10(2):117–9.

Use of dobutamine stress echocardiography for risk assessment before noncardiac surgery [see comments] Tawam MN, et al. **Am J Card Imaging** 1996 Apr; 10(2):128–32 (49 ref.). Comment in: Am J Card Imaging 1996 Apr;10(2):117–9.

Cardiac outcomes in coronary patients with submaximum dobutamine stress echocardiography. Ballal RS, et al.
Am J Cardiol 1997 Sep 15;80(6):725–9

Comparison of exercise electrocardiography and dobutamine echocardiography with invasively assessed myocardial

fractional flow reserve in evaluation of severity of coronary arterial narrowing. Bartunek J, et al. **Am J Cardiol** 1997 Feb 15;79(4):478–81

Comparison of arbutamine and exercise echocardiography in diagnosing myocardial ischemia. Cohen A, et al. **Am J Cardiol** 1997 Mar 15;79(6):713–6

Comparison of dobutamine stress echocardiography and 99m-technetium sestamibi SPECT myocardial perfusion scintigraphy for predicting extent of coronary artery disease in patients with healed myocardial infarction. Elhendy A, et al. **Am J Cardiol** 1997 Jan 1;79(1):7–12

T-wave alterations at the onset of wall motion abnormalities during dobutamine echocardiographic stress test. Fantini F, et al. **Am J Cardiol** 1997 Jan 1;79(1):78–81

Lack of arrhythmogenicity with ST-segment elevation during high-dose of dobutamine atropine stress in patients with documented or suspected coronary artery disease. Kamalesh M, et al. **Am J Cardiol** 1997 Aug 1;80(3):341–3

Relation of contractile reserve during low-dose dobutamine echocardiography and angiographic extent and severity of coronary artery disease in the presence of left ventricular dysfunction. Main ML, et al. **Am J Cardiol** 1997 May 15; 79(10):1309–13

Impact of metoprolol on heart rate, blood pressure, and contractility in normal subjects during dobutamine stress echocardiography. Marcovitz PA, et al. **Am J Cardiol** 1997 Aug 1;80(3):386–8

Dobutamine-induced ST-segment elevation in patients with acute myocardial infarction and the role of myocardial ischemia, viability, and ventricular dyssynergy. Ricci R, et al. **Am J Cardiol** 1997 Mar 15;79(6):733–7

Influence of gender on physiologic response and accuracy of dobutamine echocardiography. Secknus MA, et al. **Am J Cardiol** 1997 Sep 15;80(6):721–4

Prognostic value of dobutamine stress echocardiography in patients undergoing diagnostic coronary arteriography. Senior R, et al. **Am J Cardiol** 1997 Jun 15;79(12):1610–4

Impact of acute propranolol administration on dobutamine-induced myocardial ischemia as evaluated by myocardial perfusion imaging and echocardiography. Shehata AR, et al. **Am J Cardiol** 1997 Aug 1;80(3):268–72

Detection of myocardial viability in the prediction of improvement in left ventricular function after successful coronary revascularization by using the dobutamine stress echocardiography and quantitative SPECT rest-redistribution-reinjection 201TI imaging after dipyridamole infusion. Kostopoulos KG, et al. **Angiology** 1996 Nov;47(11):1039–46

Stress echocardiography using adenosine combined with nitroglycerin-dobutamine in the detection of viable myocardium in patients with previous myocardial infarction. Kranidis A, et al. **Angiology** 1997 Feb; 48(2):127–33

Dobutamine stress echocardiography in the elderly Asian patients. Yeo TC, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):165–7

Localizing individual coronary artery obstructions with the dobutamine stress echocardiography. Ho YL, et al. **Cardiology** 1997 Mar-Apr;88(2):197–202

Dobutamine stress echocardiography compared with exercise thallium-201 single-photon emission computed tomography in detecting coronary artery disease-effect of exercise level on accuracy. Ho YL, et al. **Cardiology** 1997 Jul-Aug;88(4):379–85

Assessment of the functional significance of coronary artery stenosis by dobutamine-atropine stress echocardiography. Ho YL, et al. **Cardiology** 1997 Jul-Aug;88(4):386–92

Comparison of adenosine, dobutamine, and exercise radionuclide ventriculography in the detection of coronary artery disease. Nagaoka H, et al. **Cardiology** 1997 Mar-Apr; 88(2):180–8

Dipyridamole and dobutamine-atropine stress echocardiography in the diagnosis of coronary artery disease. Comparison with exercise stress test, analysis of agreement, and impact of antianginal treatment. San Román JA, et al. **Chest** 1996 Nov;110(5):1248–54

Postextrasystolic potentiation and dobutamine echocardiography in predicting recovery of myocardial function after coronary bypass revascularization. Scognamiglio R, et al. **Circulation** 1997 Aug 5;96(3):816–20

Provocation of coronary spasm by dobutamine stress echocardiography in a patient with angiographically minimal coronary artery disease. Deligonul U, et al. **Clin Cardiol** 1996 Sep;19(9):755–8

Evaluation of patients with diabetes mellitus for coronary artery disease using dobutamine stress echocardiography. Hennessy TG, et al. **Coron Artery Dis** 1997 Mar-Apr; 8(3-4):171–4

Safety of dobutamine stress echocardiography in 474 consecutive studies. Hennessy TG, et al. **Coron Artery Dis** 1997 Mar-Apr;8(3-4):175–8

Comparative diagnostic value of dobutamine stress echocardiography and stress thallium-201 single-photon-emission computed tomography for detecting coronary artery disease in women. Takeuchi M, et al. **Coron Artery Dis** 1996 Nov;7(11):831–5

Combined use of dobutamine echocardiography and myocardial contrast echocardiography in predicting regional dysfunction recovery after coronary revascularization in patients with recent myocardial infarction [see comments] Agati L, et al. **Eur Heart J** 1997 May;18(5):771–9. Comment in: Eur Heart J 1997 May;18(5):714–5.

FDG SPECT in the assessment of myocardial viability. Comparison with dobutamine echo. Bax JJ, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D124–9 (39 ref.)

Safety of dobutamine stress echocardiography. A 24 h Holter monitoring study. Chauvel C, et al. **Eur Heart J** 1996 Dec; 17(12):1898–901

Prediction of improvement of ventricular function after revascularization. 18F-fluorodeoxyglucose single-photon emission computed tomography vs low-dose dobutamine echocardiography. Cornel JH, et al. **Eur Heart J** 1997 Jun; 18(6):941–8

Stress echocardiography and myocardial contrast echocardiography in viability assessment [editorial; comment] Distante A, et al. **Eur Heart J** 1997 May; 18(5):714–5. Comment on: Eur Heart J 1997 May;18(5):771–9.

Effects of antianginal therapy with a calcium antagonist and nitrates on dobutamine-atropine stress echocardiography. Comparison with exercise electrocardiography [see comments] Dodi C, et al. **Eur Heart J** 1997 Feb;18(2):242–7 . Comment in: Eur Heart J 1997 Feb;18(2):180–1.

An assessment of dobutamine echocardiography and end-diastolic wall thickness for predicting post-revascularization functional recovery in patients with chronic coronary artery disease. Furukawa T, et al. **Eur Heart J** 1997 May;18(5):798–806

Should the diagnosis of coronary artery disease be based on the evaluation of myocardial function or perfusion? Geleijnse ML, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D68–77 (44 ref.)

Detection of myocardial viability using stress echocardiography. Krahwinkel W, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D111–6 (34 ref.)

Use of stress echocardiography for the prognostic assessment of patients with stable chronic coronary artery disease. Marwick TH. **Eur Heart J** 1997 Jun;18 Suppl D:D97–101 (13 ref.)

Dipyridamole and dobutamine: competitors or allies in pharmacological stress echocardiography? Ostojic M, et al. **Eur Heart J** 1995 Oct;16 Suppl J:26–30 (31 ref.)

Prognostic value of dobutamine-atropine stress echocardiography for peri-operative and late cardiac events in patients scheduled for vascular surgery. Poldermans D, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D86–96 (56 ref.)

Identification of viable myocardium early after acute myocardial infarction under beta-blockade by enoximone echocardiography. Natale E, et al. **G Ital Cardiol** 1997 Apr; 27(4):342–8

Relation between ST segment elevation during dobutamine stress test and myocardial viability after a recent myocardial infarction. Elhendy A, et al. **Heart** 1997 Feb; 77(2):115–21

Accuracy of dobutamine stress echocardiography for the diagnosis of coronary artery stenosis in patients with myocardial infarction: the impact of extent and severity of left ventricular dysfunction. Elhendy A, et al. **Heart** 1996 Aug;76(2):123–8

Myocardial bridging in a survivor of sudden cardiac near-death: role of intracoronary doppler flow measurements and angiography during dobutamine stress in the clinical evaluation. Tio RA, et al. **Heart** 1997 Mar; 77(3):280–2

Closed-loop drug infusion for control of heart-rate trajectory in pharmacological stress tests. Valcke CP, et al. **IEEE Trans Biomed Eng** 1997 Mar;44(3):185–95

Improvement in contractility of infarct zone after dobutamine infusion predicts good (TIMI II or III) flow in infarct related artery. Dwivedi SK, et al. **Indian Heart J** 1997 Mar-Apr;49(2):147–51

Simultaneous dobutamine stress echocardiography and dobutamine scintigraphy (99mTc-MIBI-SPET) for assessment of coronary artery disease. De Bello V, et al. **Int J Card Imaging** 1996 Sep;12(3):185–90

Dobutamine stress echocardiography early after myocardial infarction treated with thrombolysis. Identification of myocardial viability and ischemia and relation to spontaneous functional recovery. Previtali M, et al. **Int J Card Imaging** 1996 Jun;12(2):97–104

Feasibility of simultaneous Tc99m sestamibi and 2D-echo cardiac imaging during dobutamine pharmacologic stress. Preliminary results in a female population. Slavich GA, et al. **Int J Card Imaging** 1996 Jun;12(2):113–8

Arbutamine vs. exercise stress testing in patients with coronary artery disease: evaluation by echocardiography and electrocardiography. Ginzton LE, et al. **Int J Cardiol** 1996 Nov 15;57(1):81–9

Haemodynamic changes during dobutamine stress echocardiography in patients with and without ischaemia. Mishra MB, et al. **Int J Cardiol** 1997 Jan 3;58(1):71–6

Dobutamine stress Doppler echocardiography: reproducibility and physiologic left ventricular filling patterns. Nixdorff U, et al. **Int J Cardiol** 1997 Feb; 58(3):293–303

Transesophageal dobutamine-atropine stress echocardiography: diagnostic accuracy for coronary stenosis detection and localization. Shahi M, et al. **Int J Cardiol** 1996 Oct 11;56(2):185–92

Myocardial contrast echocardiography versus dobutamine echocardiography for predicting functional recovery after acute myocardial infarction treated with primary coronary angioplasty. Bolognese L, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1677–83

Effects of beta-blockade and atropine on ischemic responses in left ventricular regions subtending coronary stenosis during dobutamine stress echocardiography. Chen L, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1866–76

Prognostic value of dobutamine echocardiography early after uncomplicated acute myocardial infarction: a comparison with exercise electrocardiography. Greco CA, et al. **J Am Coll Cardiol** 1997 Feb;29(2):261–7

Combination of dobutamine and myocardial contrast echocardiography to differentiate postischemic from infarcted myocardium. Meza MF, et al. **J Am Coll Cardiol** 1997 Apr;29(5):974–84

Identification of hibernating myocardium: comparative accuracy of myocardial contrast echocardiography, rest-redistribution thallium-201 tomography and dobutamine echocardiography. Nagueh SF, et al. **J Am Coll Cardiol** 1997 Apr;29(5):985–93

Amrinone stimulation test: ability to predict improvement in left ventricular ejection fraction after coronary bypass surgery in patients with poor baseline left ventricular function. Perez-Baliño NA, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1488–92

Right ventricular asynergy during dobutamine-atropine echocardiography. San Román JA, et al. **J Am Coll Cardiol** 1997 Aug;30(2):430–5

Prognostic value of dobutamine-atropine stress echocardiography early after acute myocardial infarction. Echo Dobutamine International Cooperative (EDIC) Study. Sicari R, et al. **J Am Coll Cardiol** 1997 Feb; 29(2):254–60

Long-term prognostic significance of dobutamine echocardiography in patients with suspected coronary artery disease: results of a 5-year follow-up study. Steinberg EH, et al. **J Am Coll Cardiol** 1997 Apr; 29(5):969–73

Effects of prolonging peak dobutamine dose during stress echocardiography. Weissman NJ, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):526–30

Interobserver and intraobserver variation for analysis of left ventricular wall motion at baseline and during low- and high-dose dobutamine stress echocardiography in patients with high prevalence of wall motion abnormalities at rest. Bjørnstad K, et al. **J Am Soc Echocardiogr** 1996 May-Jun; 9(3):320–8

Dobutamine stress ultrasonic myocardial tissue characterization in patients with dilated cardiomyopathy. Naito J, et al. **J Am Soc Echocardiogr** 1996 Jul-Aug; 9(4):470–9

Detection of myocardial perfusion abnormalities during dobutamine and adenosine stress echocardiography with transient myocardial contrast imaging after minute quantities of intravenous perfluorocarbon-exposed sonicated dextrose albumin. Porter TR, et al. **J Am Soc Echocardiogr** 1996 Nov-Dec;9(6):779–86

The feasibility of dobutamine stress echocardiography in the emergency department with telemedicine interpretation. Trippi JA, et al. **J Am Soc Echocardiogr** 1996 Mar-Apr; 9(2):113–8

Implication of the negative U wave during dobutamine stress echocardiography. Miura Y, et al. **J Electrocardiol** 1997 Jan;30(1):57–64

Hemodynamics of St. Jude Medical prostheses in the small aortic root: in vivo studies using dobutamine Doppler echocardiography. Kadir I, et al. **J Heart Valve Dis** 1997 Mar;6(2):123–9

Use of dobutamine stress echocardiography in assessing mechanical aortic prostheses: comparison with exercise echocardiography. Zabalgoitia M, et al. **J Heart Valve Dis** 1997 May;6(3):253–7

Tolerance, hemodynamic changes, and safety of dobutamine stress perfusion imaging. Dakik HA, et al. **J Nucl Cardiol** 1996 Sep-Oct;3(5):410–4

Incremental diagnostic value of dobutamine stress echocardiography and dobutamine scintigraphy (technetium 99m-labeled sestamibi single-photon emission computed tomography) for assessment of presence and extent of coronary artery disease. Di Bello V, et al. **J Nucl Cardiol** 1996 May-Jun;3(3):212–20

Comparison of arbutamine stress 99mTc-labeled sestamibi single-photon emission computed tomographic imaging and echocardiography for detection of the extent and severity of coronary artery disease and inducible ischemia. Khattar RS, et al. **J Nucl Cardiol** 1997 May-Jun;4(3):211–6

Dobutamine stress echocardiography for the detection of coronary artery disease and viable myocardium. Kishida H, et al. **Jpn Heart J** 1997 Mar;38(2):151–61

Bland-White-Garland syndrome in an adult. Case report and review of diagnostic and predictive strategies. Gunaydin S, et al. **Scand Cardiovasc J** 1997;31(2):105–9 (15 ref.)

[Diagnostic value of echocardiography under dobutamine in everyday practice] Dayoub G, et al. **Ann Cardiol Angeiol (Paris)** 1996 Nov;45(9):489–94 (24 ref.) (Eng. Abstr.) **(Fre)**

[Value of echocardiography-dobutamine in the study of reserve myocardial contractility in aortic stenosis with alteration of left ventricular function. Apropos of a case] Deluche L, et al. **Ann Cardiol Angeiol (Paris)** 1996 Nov; 45(9):523–6 (10 ref.) (Eng. Abstr.) **(Fre)**

[Prospective study of subjective stress caused by dobutamine stress echocardiography--effect on diagnostic accuracy]

Wagner S, et al. **Z Kardiol** 1996 Aug;85(8):588–95 (Eng. Abstr.) **(Ger)**

[Dobutamine stress causes left ventricular outflow tract obstruction] Sonoda M, et al. **J Cardiol** 1996;27 Suppl 2:45–8; discussion 49 (Eng. Abstr.) **(Jpn)**

[Prediction of the myocardial contractility improvement on early stage after the revascularization using low-dose dobutamine stress 99mTc-MIBI gated SPECT] Toba M, et al. **Kaku Igaku** 1997 May;34(5):315–22 (Eng. Abstr.) **(Jpn)**

[The evaluation of lung vascular compliance by the dobutamine stress test in patients who are candidates for extensive lung resections] Rubia MV, et al. **Arch Bronconeumol** 1997 May;33(5):235–9 (Eng. Abstr.) **(Spa)**

[II. Role of Doppler echocardiography in the management of chronic ischemic cardiopathy] Alonso Gómez AM, et al. **Rev Esp Cardiol** 1997 Jan;50(1):15–25 (77 ref.) (Eng. Abstr.) **(Spa)**

[Echocardiography with dobutamine in hypertensive patients with chest pain] Castillo JA, et al. **Rev Esp Cardiol** 1996 Oct;49(10):747–52 (Eng. Abstr.) **(Spa)**

METABOLISM

Metabolism and disposition of kyushin, a drug containing senso (ch'an su). Shimizu Y, et al. **Am J Chin Med** 1996; 24(3–4):289–303

Comment: possible mechanism of digoxin–itraconazole interaction [letter] Ito S, et al. **Ann Pharmacother** 1997 Sep; 31(9):1091–2

Transport and epithelial secretion of the cardiac glycoside, digoxin, by human intestinal epithelial (Caco–2) cells. Cavet ME, et al. **Br J Pharmacol** 1996 Jul;118(6):1389–96

Biotransformation of the novel inotropic agent toborinone (OPC–18790) in rats and dogs. Evidence for the formation of novel glutathione and two cysteine conjugates. Kitani M, et al. **Drug Metab Dispos** 1997 Jun;25(6):663–74

PHARMACOKINETICS

Pharmacokinetics of higenamine in rabbits. Lo CF, et al. **Biopharm Drug Dispos** 1996 Dec;17(9):791–803

Steady state serum concentrations of pravastatin and digoxin when given in combination. Triscari J, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):263–5

Lack of interaction between pantoprazole and digoxin at therapeutic doses in man. Hartmann M, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S67–71

Pharmacokinetics of levosimendan in healthy volunteers and patients with congestive heart failure. Sandell EP, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S57–62

Assessment of pharmacokinetic and pharmacodynamic drug interactions between nefazodone and digoxin in healthy male volunteers. Dockens RC, et al. **J Clin Pharmacol** 1996 Feb;36(2):160–7

Population–based investigation of relative clearance of digoxin in Japanese patients by multiple trough screen analysis: an update. Yukawa E, et al. **J Clin Pharmacol** 1997 Feb;37(2):92–100

Itraconazole increases serum digoxin concentration. Partanen J, et al. **Pharmacol Toxicol** 1996 Nov;79(5):274–6

Is the volume of distribution of digoxin reduced in patients with renal dysfunction? Determining digoxin pharmacokinetics by fluorescence polarization immunoassay. Cheng JW, et al. **Pharmacotherapy** 1997 May–Jun;17(3):584–90

PHARMACOLOGY

Role of zatebradine and propranolol in attenuation of tachycardia produced by dobutamine in pigs. Neustein SM, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):849–52

Effects of dopamine, dopexamine and dobutamine on renal excretory function during experimental sepsis in conscious rats. Pålsson J, et al. **Acta Anaesthesiol Scand** 1997 Mar; 41(3):392–8

Inotropic effect of adrenomedullin in the isolated perfused rat heart. Szokodi I, et al. **Acta Physiol Scand** 1996 Feb; 156(2):151–2

Search for an endogenous mammalian cardiotonic factor. Nakanishi K, et al. **Adv Exp Med Biol** 1996;404:219–24 (11 ref.)

Beneficial effects of a Ca2+ sensitizer, MCI–154, on the myocardial oxygen consumption–cardiac output relation in patients with left ventricular dysfunction after myocardial infarction: comparison with dobutamine and phosphodiesterase inhibitor. Takaoka H, et al. **Am Heart J** 1997 Mar;133(3):283–9

The effect of aminophylline on pharmacological stress with intravenous adenosine. Nahser PJ Jr, et al. **Am J Card Imaging** 1996 Jul;10(3):149–53

The magnitude of inotropic reserve is unrelated to basal systolic function or wall thickness in patients with chronic ischemic left ventricular dysfunction. Curiel RV, et al. **Am J Cardiol** 1997 Sep 15;80(6):783–6

Angiotensin I–converting enzyme inhibitors potentiate bradykinin's inotropic effects independently of blocking its inactivation. Minshall RD, et al. **Am J Cardiol** 1997 Aug 4;80(3A):132A–136A

Direct comparison of arbutamine and dobutamine stress testing with myocardial perfusion imaging and echocardiography in patients with coronary artery disease. Shehata AR, et al. **Am J Cardiol** 1997 Sep 15;80(6):716–20

Control of oxidative metabolism in volume–overloaded rat hearts: effect of propionyl–L–carnitine. El Alaoui–Talibi Z, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1615–24

Infarct size reduction with the nucleoside transport inhibitor R–75231 in swine. Martin BJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1857–65

Variation in effects of Cs+, UL–FS–49, and ZD–7288 within sinoatrial node. Nikmaram MR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2782–92

Effects of a novel inotropic agent, BAY y 5959, in conscious dogs: comparison with dobutamine and milrinone. Sato N, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H753–9

A novel cardioprotective function of adenosine A1 and A3 receptors during prolonged simulated ischemia. Stambaugh K, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H501–5

Tension response of the cardiotonic agent (+)–EMD–57033 at the single cell level. Vannier C, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1586–93

Ca2+ sensitizer Org–30029 reverses acidosis– and BDM–induced contractile depression in canine myocardium. Watanabe A, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):H1829–39

CGP–48506 increases contractility of ventricular myocytes and myofilaments by effects on actin–myosin reaction. Wolska BM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H24–32

Inotropic agent EMD–53998 weakens nucleotide and phosphate binding to cross bridges in porcine myocardium. Zhao Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1394–406

Systemic, pulmonary and mesenteric perfusion and oxygenation effects of dopamine and epinephrine. Cheung PY, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):32–7

Intracoronary levosimendan enhances contractile function of stunned myocardium. Jamali IN, et al. **Anesth Analg** 1997 Jul;85(1):23–9

The effect of milrinone on hemodynamics and left ventricular function after emergence from cardiopulmonary bypass. Kikura M, et al. **Anesth Analg** 1997 Jul;85(1):16–22

Maternal and fetal effects of isoproterenol in the gravid ewe. Norris MC, et al. **Anesth Analg** 1997 Aug;85(2):389–94

Effects of intracoronary fentanyl on left ventricular mechanoenergetics in the excised cross–circulated canine heart. Kohno K, et al. **Anesthesiology** 1997 Jun; 86(6):1350–8; discussion 7A–8A

Investigation of the positive inotropic action of 6,7–dimethoxy–3–cyano–3,4–dihydrocarbostyril. Ferrini R, et al. **Arzneimittelforschung** 1996 Feb;46(2):139–45

Effects of toborinone on myocardial oxygen consumption in pacing–induced heart failure dogs. Itoh S, et al. **Arzneimittelforschung** 1996 Dec;46(12):1105–9

Effects of 6–(3–dimethylaminopropionyl)forskolin hydrochloride on energy metabolism in dog hearts in situ. Yokoyama H, et al. **Arzneimittelforschung** 1996 May; 46(5):467–71

Comparison of the effects of levosimendan, pimobendan, and milrinone on canine left ventricular–arterial coupling and mechanical efficiency. Pagel PS, et al. **Basic Res Cardiol** 1996 Jul–Aug;91(4):296–307

Two–dimensional millisecond analysis of intracellular Ca2+ sparks in cardiac myocytes by rapid scanning confocal microscopy: increase in amplitude by isoproterenol. Tanaka H, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):413–8

Increase in force of contraction by activation of the Na+/Ca(2+)–exchanger in human myocardium. Müller–Ehmsen J, et al. **Br J Clin Pharmacol** 1997 Apr; 43(4):399–405

Mode of action of bradycardic agent, S 16257, on ionic currents of rabbit sinoatrial node cells. Bois P, et al. **Br J Pharmacol** 1996 Jun;118(4):1051–7

Electrophysiological mechanisms for antiarrhythmic efficacy and positive inotropy of liriodenine, a natural aporphine alkaloid from Fissistigma glaucescens. Chang GJ, et al. **Br J Pharmacol** 1996 Aug;118(7):1571–83

Mechanical and electrophysiological effects of 8–oxoberberine (JKL1073A) on atrial tissue. Chi JF, et al. **Br J Pharmacol** 1996 Jun;118(3):503–12

Mechanisms of block of a human cloned potassium channel by the enantiomers of a new bradycardic agent: S–16257–2 and S–16260–2. Delpón E, et al. **Br J Pharmacol** 1996 Mar; 117(6):1293–301

Ouabain–induced increases in resting tone of human hyperplastic prostate following repeated noradrenaline and electrical field stimulation. Guh JH, et al. **Br J Pharmacol** 1996 Apr;117(8):1716–20

Actions of the digitalis analogue strophanthidin on action potentials and L–type calcium current in single cells isolated from the rabbit atrioventricular node. Hancox JC, et al. **Br J Pharmacol** 1996 Jul;118(6):1447–54

Effects of cantharidin on force of contraction and phosphatase activity in nonfailing and failing human hearts. Linck B, et al. **Br J Pharmacol** 1996 Oct;119(3):545–50

Mechanical and electrophysiological effects of a hydroxyphenyl–substituted tetrahydroisoquinoline, SL–1, on isolated rat cardiac tissues. Chang GJ, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1651–60

Neurohumoral effects of digoxin: a target for further investigation. Gheorghiade M. **Cardiologia** 1996 Oct; 41(10):967–72 (49 ref.)

The effect of positive inotropes on the failing human myocardium. Erdmann E. **Cardiology** 1997;88 Suppl 2:7–11

New inotropic concepts: rationale for and differences between calcium sensitizers and phosphodiesterase inhibitors. Holubarsch C. **Cardiology** 1997;88 Suppl 2:12–20

Increased cardiac fatty acid uptake with dobutamine infusion in swine is accompanied by a decrease in malonyl CoA levels. Hall JL, et al. **Cardiovasc Res** 1996 Nov;32(5):879–85

The novel inotropic agent CGP 48506 alters force primarily by Ca(2+)–independent mechanisms in porcine skinned trabeculae. Palmer S, et al. **Cardiovasc Res** 1996 Aug; 32(2):411–21

Synthesis and biological activities of optically active 6–[3–(3,4–dimethoxybenzylamino)–2–hydroxypropoxy]–2 (1H)–quinolinone (OPC–18790). Fujioka T, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1596–8

Differential effects of the Ca2+ sensitizers caffeine and CGP 48506 on the relaxation rate of rat skinned cardiac trabeculae. Palmer S, et al. **Circ Res** 1997 May;80(5):682–7

Modulation of cytokine production and protection against lethal endotoxemia by the cardiac glycoside ouabain. Matsumori A, et al. **Circulation** 1997 Sep 2;96(5):1501–6

Human platelet Ca2+ mobilization, glycoprotein IIb/IIIa activation, and experimental coronary thrombosis in vivo in dogs are all inhibited by the inotropic agent amrinone. Sill JC, et al. **Circulation** 1997 Sep 2;96(5):1647–53

Effects of dobutamine stimulation on myocardial blood flow, glucose metabolism, and wall motion in normal and dysfunctional myocardium [see comments] Sun KT, et al. **Circulation** 1996 Dec 15;94(12):3146–54. Comment in: Circulation 1996 Dec 15;94(12):3055–61.

Effects of MCI–154, a calcium sensitizer, on left ventricular systolic and diastolic function in pacing–induced heart failure in the dog. Teramura S, et al. **Circulation** 1997 Feb 4;95(3):732–9

Increases in the myocardial concentration of vasoactive intestinal peptide may explain the positive inotropic effect of angiotensin converting enzyme inhibitors. Ye VZ, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):617–8

Myocardial efficiency during calcium sensitization with levosimendan: a noninvasive study with positron emission tomography and echocardiography in healthy volunteers. Ukkonen H, et al. **Clin Pharmacol Ther** 1997 May; 61(5):596–607

Inotropes inhibit endothelial cell surface adhesion molecules induced by interleukin–1beta. Fortenberry JD, et al. **Crit Care Med** 1997 Feb;25(2):303–8

Inotropes and gut mucosal perfusion: a brake on the motor of multiple organ failure? [editorial; comment] Kumar A. **Crit Care Med** 1997 Aug;25(8):1266–7. Comment on: Crit Care Med 1997 Aug;25(8):1371–7.

Digoxin and its related endogenous factors. Jortani SA, et al. **Crit Rev Clin Lab Sci** 1997 Jun;34(3):225–74 (195 ref.)

Functional responses of the left and right heart of diabetic rats to alpha– and beta–adrenergic receptor stimulation. Irlbeck M, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S79–86

The haemodynamic effects of milrinone HCl in halothane anaesthetised horses. Muir WW. **Equine Vet J Suppl** 1995 Sep;(19):108–13

Effect of milrinone and atrial pacing on stunned myocardium. Schad H, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1125–32

A comparison between the effects of BMS–180448, a novel K+ channel opener, and cromakalim in rat and dog. D'Alonzo AJ, et al. **Eur J Pharmacol** 1995 Dec 27; 294(1):271–80

OPC–18790, a novel positive inotropic agent, has both arterial and venous vascular dilating actions in the dog. Fujiki H, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):191–200

Effects of zatebradine on ouabain–, two–stage coronary ligation– and epinephrine–induced ventricular tachyarrhythmias. Furukawa Y, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):203–10

Ca2+ channel activation by CGP 48506, a new positive inotropic benzodiazocine derivative. Herzig S. **Eur J Pharmacol** 1996 Jan 4;295(1):113–7

Increases in inotropic state without change in heart rate: combined use of dobutamine and zatebradine in conscious dogs. Hettrick DA, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2–3):237–44

Modulation of the contractility of guinea pig papillary muscle by the activation of ATP–sensitive K+ channels. Kocić I. **Eur J Pharmacol** 1996 Apr 22;301(1–3):115–9

Cardioprotection with a novel adenosine regulating agent mediated by intravascular adenosine. Kurz MA, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):211–20

The effect of selective phosphodiesterase inhibitors on plasma insulin concentrations and insulin secretion in vitro in the rat. El–Metwally M, et al. **Eur J Pharmacol** 1997 Apr 18; 324(2–3):227–32

Mechanisms of positive inotropic action of flosequinan, hydralazine, and milrinone on mammalian myocardium. Miao L, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):201–8

The effects of EMD 57033 on rigor tension in porcine skinned cardiac trabecula. Palmer S, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):83–90

The effect of verbascoside on cyclic 3',5'–adenosine monophosphate levels in isolated rat heart. Pennacchio M, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):169–71

Depression of the inotropic action of isoprenaline by nitric oxide synthase induction in rat isolated hearts. Sun X, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):29–35

Effects of the dopamine D3 receptor agonist,

R(+)-7-hydroxy-N,N-di-n-propyl-2-aminotetralin, on memory processes in mice. Ukai M, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):147-51

Alpha 1D-adrenoceptors play little role in the positive inotropic action of phenylephrine. Wang SN, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):39-43

Zatebradine inhibits tachycardia induced by bronchodilators without affecting respiratory resistance in dogs. Yamazaki K, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):21-7

Effects of vesnarinone on the bone marrow stromal cell-dependent proliferation and differentiation of HL60 cells in vitro. Nabeshima R, et al. **Exp Hematol** 1997 Jun; 25(6):509-15

Insulin reversibility of the isoproterenol resistance of diabetic rat myocardium. Bányász T, et al. **Gen Pharmacol** 1996 Oct;27(7):1219-22

New inotropic agents: milrinone analogs. Dorigo P, et al. **Gen Pharmacol** 1997 May;28(5):781-8

Alpha 1-adrenoceptor subtype involved in the positive and negative inotropic responses to phenylephrine in rat papillary muscle. Nagashima M, et al. **Gen Pharmacol** 1997 May;28(5):721-5

Cardiac electrophysiological effects of levosimendan, a new calcium sensitizer. Virág L, et al. **Gen Pharmacol** 1996 Apr; 27(3):551-6

Diverse inotropic effects of 5-hydroxytryptamine in heart muscles of various mammalian species. Zaizen H, et al. **Heart Vessels** 1996;11(1):10-7

Direct cardiotoxic effects of cocaine and cocaethylene on isolated cardiomyocytes. Bai H, et al. **Int J Cardiol** 1996 Jan;53(1):15-23

Acute effects of digitalis and enalapril on the neurohormonal profile of chagasic patients with severe congestive heart failure. Khoury AM, et al. **Int J Cardiol** 1996 Nov 15; 57(1):21-9

Differentiation of inodilatory responses by non-invasive measures of cardiovascular performance in healthy man. De Mey C, et al. **Int J Clin Pharmacol Ther** 1996 Dec; 34(12):525-32

Reduction in pulmonary microvascular pressure following cardiopulmonary bypass: beneficial effects of dobutamine. O-Yurvati AH, et al. **Int Surg** 1995 Jul-Sep;80(3):231-4

Influence of enoximone on systemic and splanchnic oxygen utilization and endotoxin release following cardiopulmonary bypass. Loick HM, et al. **Intensive Care Med** 1997 Mar;23(3):267-75

Splanchnic oxygen transport after cardiac surgery: evidence for inadequate tissue perfusion after stabilization of hemodynamics [see comments] Uusaro A, et al. **Intensive Care Med** 1996 Jan;22(1):26-33. Comment in: Intensive Care Med 1996 Jan;22(1):1-2.

Paradoxical sinus deceleration during dobutamine stress echocardiography: description and angiographic correlation. Attenhofer CH, et al. **J Am Coll Cardiol** 1997 Apr;29(5):994-9

Digoxin reduces cardiac sympathetic activity in severe congestive heart failure [letter; comment] Goldsmith SR. **J Am Coll Cardiol** 1997 Feb;29(2):472-3. Comment on: J Am Coll Cardiol 1996 Jul;28(1):155-61.

Oxygen-saving effect of a new cardiotonic agent, MCI-154, in diseased human hearts. Mori M, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):613-22

Effect of inotropic interventions on contraction and Ca2+ transients in the human heart. Brixius K, et al. **J Appl Physiol** 1997 Aug;83(2):652-60

Calcitonin gene-related peptide (CGRP)-evoked inotropism during hyper- and hypo-sensory-motor innervation in rat atria. Rubino A, et al. **J Auton Pharmacol** 1997 Apr; 17(2):121-7

Early pharmacologic intervention may prevent the deterioration in endothelial function after experimental myocardial infarction in rats: effects of ibopamine and captopril. Buikema H, et al. **J Card Fail** 1997 Jun; 3(2):125-32

Decreased inotropic but relatively preserved relaxation response to cyclic adenosine monophosphate-dependent agents in myopathic human myocardium. Gutstein DE, et al. **J Card Fail** 1996 Dec;2(4):285-92

Effects of milrinone and sulmazole on left ventricular mechanoenergetics in canine hearts. Hata K, et al. **J Card Fail** 1996 Sep;2(3):203-13

Direct effects of triiodothyronine on human internal mammary artery and saphenous veins. Krasner LJ, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):463-6

Effects of dobutamine and enoximone on transmitral and pulmonary venous flow characteristics in patients with left ventricular dysfunction after coronary artery bypass grafting. Vroom MB, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):756-63

Calcium sensitization via troponin-C: a new approach for the treatment of heart failure. Proceedings of an international symposium in association with the joint XIIth World Congress of Cardiology and XVIth Congress of the European Society of Cardiology. Berlin, Germany, September 10, 1994. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S1-84

Effects of a new cardiotonic phosphodiesterase III inhibitor, olprinone, on cardiohemodynamics and plasma hormones in conscious pigs with heart failure. Adachi H, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):763-71

Glyburide-reversible cardioprotective effects of BMS-180448: functional and energetic considerations. Grover GJ, et al. **J Cardiovasc Pharmacol** 1997 Jan; 29(1):28-38

In vivo evidence of positive inotropism of EMD 57033 through calcium sensitization. Haeusler G, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):647-55

Mechanisms of action of calcium-sensitizing drugs. Haikala H, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S10-9 (33 ref.)

Effects of calcium sensitizers on intracellular calcium handling and myocardial energetics. Hasenfuss G, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S45-51

Mechanisms of the inotropic effects of UD-CG 212 Cl, an active metabolite of pimobendan, on ferret papillary muscles. Komukai K, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):673-9

Zatebradine slows ectopic ventricular rhythms in canine heart 24 hours after coronary artery ligation. Lasker SM, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):662-9

Dose-range study of a new calcium sensitizer, levosimendan, in patients with left ventricular dysfunction. Lilleberg J, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S63-9

Effect of dobutamine and OPC-18790 on diastolic chamber stiffness in patients with idiopathic dilated cardiomyopathy. Machii T, et al. **J Cardiovasc Pharmacol** 1997 Feb; 29(2):265-72

A novel approach to the development of positive inotropic agents for chronic heart failure. Packer M. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S52-6 (44 ref.)

Levosimendan enhances left ventricular systolic and diastolic function in conscious dogs with pacing-induced cardiomyopathy. Pagel PS, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):563-73

Investigations of the mechanism of the positive inotropic action of BDF 9148: comparison with DPI 201-106 and the enantiomers. Raap A, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):164-73

Increase in the basal tone of guinea pig thoracic aorta induced by ouabain is inhibited by spironolactone canrenone and potassium canrenoate. Sorrentino R, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):519-25

Classification of positive inotropic actions based on electrophysiologic characteristics: where should calcium sensitizers be placed? Varro A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S32-44 (97 ref.)

Hemodynamic effects of calcium-sensitizing agents. Vegh A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S20-31 (98 ref.)

Assessment of pharmacokinetic and pharmacodynamic drug interactions between nefazodone and digoxin in healthy male volunteers. Dockens RC, et al. **J Clin Pharmacol** 1996 Feb;36(2):160-7

Differentiation between various types of inotropes through discovery of differences in their ability to detect isoforms of Na+/K(+)-ATPase. Repke KR, et al. **J Enzyme Inhib** 1997 Apr;12(1):53-8

The effect of reduced myocardial cyclic AMP content on the response to milrinone in the isolated guinea pig heart. Kehler CH, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):636-42

Improvement of hibernation in the clinical setting. Brunelli C, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2415-8

Effects of calcium channel antagonists on Ca2+ transients in rat and canine cardiomyocytes. Hensley J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1037-43

Vascular-derived myocardial contractile factor: positive myocardial inotropic substance released from medial layer of the canine aorta. Li K, et al. **J Mol Cell Cardiol** 1996 May;28(5):881-92

Receptor-independent activation of cardiac adenylyl cyclase by GDP and membrane-associated nucleoside diphosphate kinase. A new cardiotonic mechanism? Niroomand F, et al. **J Mol Cell Cardiol** 1997 May;29(5):1479-86

Endocardial endothelium and myocardial performance in rats: effects of changing extracellular calcium and phenylephrine. Qi X, et al. **J Mol Cell Cardiol** 1996 May; 28(5):859-69

Pharmacology of coronary vasodilation: a brief review. Orlandi C. **J Nucl Cardiol** 1996 Nov-Dec;3(6 Pt 2):S27-30 (26 ref.)

Effects of ouabain on technetium-99m-Q12 and thallium-201 extraction and retention by isolated rat heart. McGoron AJ, et al. **J Nucl Med** 1996 May;37(5):752-6

Veratridine augments and BDF 9148 attenuates the spontaneous contractile force of the rat portal vein. Doggrell SA, et al. **J Pharm Pharmacol** 1996 Aug; 48(8):820-4

Restoration of ischemic contractile failure of indo-1-loaded guinea pig heart by a calcium sensitizer, MCI-154. Abe Y, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):47-55

Mechanisms of the contractile effects of levosimendan in the mammalian heart. Bokník P, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):277-83

Adenosine A1 receptor blockade does not abolish the cardioprotective effects of the adenosine triphosphate-sensitive potassium channel opener bimakalim. Gross GJ, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):533-40

Ca++ sensitizers impair cardiac relaxation in failing human myocardium. Hajjar RJ, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):247-54

Effects of levosimendan on myocardial contractility and oxygen consumption. Todaka K, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):120-7

Inhibition of cardiac potassium currents by the vesnarinone analog OPC-18790: comparison with quinidine and dofetilide. Yang T, et al. **J Pharmacol Exp Ther** 1997 Mar; 280(3):1170-5

Effects of cardiac glycosides on excitation-contraction coupling in frog skeletal muscle fibres. Sárközi S, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):611-26

Effect of chronic digoxin on beta-adrenergic receptors in rabbits with heart failure. Albajinai W, et al. **Jpn Heart J** 1997 Mar;38(2):263-72

Ouabain-induced cell proliferation in cultured rat astrocytes. Murata Y, et al. **Jpn J Pharmacol** 1996 Dec;72(4):347-53

Effects of toborinone (OPC-18790), a new positive inotropic agent, on action potential in guinea pig sinoatrial node: compared with milrinone and E-4031. Orito K, et al. **Jpn J Pharmacol** 1996 Sep;72(1):79-82

A possible role of the redox interactions in the dual, activatory and inhibitory, action of DPI 201-106 on the potential-dependent Na+ channels. Marinov BS. **Membr Cell Biol** 1997;10(6):707-15

E-1020, a water soluble imidazopyridine, has direct effects on Ca(2+)-dependent force and ATP hydrolysis of canine and bovine cardiac myofilaments. Powers FM, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:33-9

Inhibition of pacemaker current by the bradycardic agent ZD 7288 is lost use-dependently in sheep cardiac Purkinje fibres. Berger F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):64-72

The novel cardioprotective agent BMS-180448 activates a potassium conductance in cardiac and vascular smooth muscle. Lodge NJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):444-51

Effect of a sodium-channel activator (BDF 9148) on insulin secretion in mouse pancreatic islets. Wahl MA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):417-21

Limitation of stunning in dog myocardium by nucleoside and nucleotide mixture, OG-VI. Ichihara K, et al. **Nutrition** 1997 May;13(5):462-4

Transvalvular impedance (TVI) recording under electrical and pharmocological cardiac stimulation. Di Gregorio F, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1689-93

Effects of low-dose dobutamine on left ventricular diastolic filling in children. Harada K, et al. **Pediatr Cardiol** 1996 Jul-Aug;17(4):220-5

Metabolic and renal effects of Laevo-carnitine and propionyl-carnitine in rats with subtotal nephrectomy. Palomba D, et al. **Pharmacol Res** 1996 Sep-Oct; 34(3-4):161-5

Inotropic response of rat heart papillary muscle to alpha 1- and beta-adrenoceptor stimulation in relation to dietary n-6 and n-3 polyunsaturated fatty acids (PUFA) and age. Skúladóttir GV, et al. **Pharmacol Toxicol** 1997 Feb; 80(2):85-90

Evidence that prazosin disturbs isoprenaline positive inotropic action in the guinea pig heart papillary muscle. Kocić I. **Pol J Pharmacol** 1996 Jul-Aug;48(4):447-52

Effects of enoximone on right-ventricular function in patients with impaired myocardial performance. Petry A, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):173-7

Effects of vesnarinone, a novel orally active inotropic agent with an immunosuppressive action, on experimental cardiac transplantation in rats. Yokoyama H, et al. **Transplantation** 1996 Dec 15;62(11):1540-3

[Comparison between kinetics of positive inotropism of ibopamine and ouabain] Huang J, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):66-8 (Eng. Abstr.) **(Chi)**

[Inotropic effect of isoprenaline and noradrenaline on chick embryo heart] Ouedraogo L, et al. **C R Acad Sci III** 1997 Apr;320(4):307-13 (Eng. Abstr.) **(Fre)**

[Effect of a new bradycardic substance on the isolated rabbit heart] Granetzny A, et al. **Z Kardiol** 1996 Dec; 85(12):953-60 (Eng. Abstr.) **(Ger)**

[Myocardial protection during extracorporeal circulation. Preliminary results with different techniques] Spaggiari I, et al. **Acta Biomed Ateneo Parmense** 1995;66(5):203-7 (Eng. Abstr.) **(Ita)**

[Cardiomyocytes in cardiovascular decompensation and drugs with nuclear action (editorial)] Moruzzi P. **Cardiologia** 1995 Oct;40(10):711-2 **(Ita)**

[Amrinone (50 micrograms.kg-1.min-1) does not impair regional myocardial tissue metabolism during the 40%-decrease of left anterior descending coronary flow] Tateyama T, et al. **Masui** 1996 Feb;45(2):148-52 (Eng. Abstr.) **(Jpn)**

[Effectiveness of NKH477, a novel forskolin derivative, in rat cardiac preparations with desensitized beta-adrenoceptors] Ishizuka O, et al. **Nippon Yakurigaku Zasshi** 1996 Jul;108(1):23-30 (Eng. Abstr.) **(Jpn)**

[Acute effects of ibopamine on left ventricular mechanics and contractility in patients with idiopathic dilated cardiomyopathy] Bellotti G, et al. **Arq Bras Cardiol** 1996 Aug;67(2):87-91 (Eng. Abstr.) **(Por)**

[Effects of amitriptyline on the contractile function of the myocardium. Dobutrex in the role of a positive inotropic agent] Meledin VIu, et al. **Anesteziol Reanimatol** 1997

Jan–Feb;(1):76–9 (Eng. Abstr.) **(Rus)**

[A study of the mechanism of the effect of new cardiotonic agent sufan on calcium exchange in cardiomyocytes] Galenko–Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):57–9 **(Rus)**

[Comparative study of the effect of isoproterenol and sufan on the concentration of free calcium ions in isolated cardiomyocytes] Galenko–Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):170–2 **(Rus)**

[Effect of sufan, lidocaine and their combination on the course of early occlusive and reperfusion arrhythmias in cats] Galenko–Iaroshevskiĭ Pa, et al. **Biull Eksp Biol Med** 1997 May;123(5):545–7 **(Rus)**

[The study of the cardiomodulating effect of different low molecular weight peptides] Grechko AT, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):43–4 **(Rus)**

[The comparative efficacy and differences in the molecular mechanism of the inotropic action of cardiac glycosides and nonglycoside cardiotropic agents on the contractile protein system of the myocardium] Karsanov NV, et al. **Eksp Klin Farmakol** 1996 May–Jun;59(3):28–33 (Eng. Abstr.) **(Rus)**

[The electrocardiogram of the guinea pig. Changes induced by beta-methyl digoxin acute administration] Padrón–Nieves M, et al. **Acta Cient Venez** 1994; 45(3):207–13 (Eng. Abstr.) **(Spa)**

POISONING

Digoxin, hyperkalemia, and kidney failure [letter; comment] Jain A, et al. **Ann Emerg Med** 1997 May;29(5):696; discussion 696–7. Comment on: Ann Emerg Med 1996 Oct;28(4):440–1.

Digoxin, hyperkalemia, and kidney failure [letter; comment] Kuhn M. **Ann Emerg Med** 1997 May;29(5):695–6; discussion 696–7. Comment on: Ann Emerg Med 1996 Oct;28(4):440–1.

Digoxin, hyperkalemia, and kidney failure [letter; comment] Rees SM, et al. **Ann Emerg Med** 1997 May;29(5):694–5; discussion 696–7. Comment on: Ann Emerg Med 1996 Oct;28(4):440–1.

THERAPEUTIC USE

Pharmacologic intervention for acute low cardiac output. Marchetti A, et al. **Adv Card Surg** 1996;7:31–64 (91 ref.)

Inotropic agents in older patients with chronic heart failure--current perspectives. Carbonin PU, et al. **Aging (Milano)** 1996 Apr;8(2):90–8 (74 ref.)

Digitalis Investigation Group (DIG) trial: a stimulus for further research. Gheorghiade M, et al. **Am Heart J** 1997 Jul;134(1):3–12 (136 ref.)

Effect of propionyl-L-carnitine on quality of life in intermittent claudication. Brevetti G, et al. **Am J Cardiol** 1997 Mar 15;79(6):777–80

Management of congestive heart failure: is the role of positive inotropic therapy fading? Futterman LG, et al. **Am J Crit Care** 1996 Nov;5(6):455–60

In utero management of hydrops fetalis caused by critical aortic stenosis. Bitar FF, et al. **Am J Perinatol** 1997 Aug; 14(7):389–91 (7 ref.)

Increased ventricular contractility is not sufficient for effective positive inotropic intervention. Binkley PF, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1635–42

Amrinone versus dobutamine in cardiac surgical patients with severe pulmonary hypertension after cardiopulmonary bypass: a prospective, randomized double-blinded trial. Jenkins IR, et al. **Anaesth Intensive Care** 1997 Jun; 25(3):245–9

A comparison of the hemodynamic effects of amrinone and sodium nitroprusside in infants after cardiac surgery. Bailey JM, et al. **Anesth Analg** 1997 Feb;84(2):294–8

Aminophylline as an adjunct to standard advanced cardiac life support in prolonged cardiac arrest. Burton JH, et al. **Ann Emerg Med** 1997 Aug;30(2):154–8

Milrinone improves pulmonary hemodynamics and right ventricular function in chronic pulmonary hypertension. Chen EP, et al. **Ann Thorac Surg** 1997 Mar;63(3):814–21

Heart failure treatment with angiotensin-converting enzyme inhibitors in hospitalized Medicare patients in 10 large states. The Large State Peer Review Organization Consortium. **Arch Intern Med** 1997 May 26;157(10):1103–8

Inotropic agents in the critically ill. Cuthbertson BH, et al. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):386–91 (13 ref.)

Use of digoxin in heart failure. Should we bother? Frank J, et al. **Can Fam Physician** 1997 Jul;43:1227–8 (3 ref.)

Clinical efficacy and safety of pimobendan in treatment of heart failure--experience in Japan. Kato K. **Cardiology** 1997;88 Suppl 2:28–36

Effects of pimobendan on exercise tolerance and quality of life in patients with heart failure. Kubo SH. **Cardiology** 1997;88 Suppl 2:21–7 (24 ref.)

Digoxin therapy in chronic heart failure. Gheorghiade M. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:279–83 (31 ref.)

Inotropic agents in the treatment of heart failure: despair or hope? Sasayama S. **Cardiovasc Drugs Ther** 1997 Jan; 10(6):703–9 (70 ref.)

Low-dose inotropic stimulation during left ventricular ischaemia does not worsen post-ischaemic dysfunction. Schwartz GG, et al. **Cardiovasc Res** 1996 Dec; 32(6):1024–37

Comparative effects of dobutamine and amrinone on coronary blood flow in patients with idiopathic dilated cardiomyopathy [see comments] Takeuchi M, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):157–63. Comment in: Cathet Cardiovasc Diagn 1997 Jun;41(2):164–5.

Postresuscitation left ventricular systolic and diastolic dysfunction. Treatment with dobutamine. Kern KB, et al. **Circulation** 1997 Jun 17;95(12):2610–3

Vesnarinone limits infarct size via adenosine-dependent mechanisms in the canine heart [see comments] Kitakaze M, et al. **Circulation** 1997 Apr 15;95(8):2108–14. Comment in: Circulation 1997 Apr 15;95(8):1989–91.

Through the looking glass: a positive inotropic drug and ischemic preconditioning [editorial; comment] Vander Heide RS, et al. **Circulation** 1997 Apr 15;95(8):1989–91. Comment on: Circulation 1997 Apr 15;95(8):2108–14.

Digoxin's effect on mortality and hospitalization in heart failure: implications of the DIG study. Digitalis Investigation Group. Hobbs RE. **Cleve Clin J Med** 1997 May;64(5):234–7

Comparative efficacy of short-term intravenous infusions of milrinone and dobutamine in acute congestive heart failure following acute myocardial infarction. Milrinone-Dobutamine Study Group. Karlsberg RP, et al. **Clin Cardiol** 1996 Jan;19(1):21–30

Reduction of left ventricular spontaneous echo contrast in cardiomyopathy by acute inotropic intervention or aggressive therapy. Patel VG, et al. **Clin Cardiol** 1996 Feb; 19(2):105–9

Effects of OG-VI, a nucleoside-nucleotide mixture, on ischemic myocardial metabolism in dogs. Okazaki Y, et al. **Coron Artery Dis** 1997 Jan;8(1):39–43

Dobutamine increases cerebral blood flow velocity and jugular bulb hemoglobin saturation in septic patients. Berré J, et al. **Crit Care Med** 1997 Mar;25(3):392–8

Dobutamine improves gastrointestinal mucosal blood flow in a porcine model of endotoxic shock [see comments] Nevière R, et al. **Crit Care Med** 1997 Aug;25(8):1371–7. Comment in: Crit Care Med 1997 Aug;25(8):1266–7.

Positive inotropic therapy: an update and new agents. Leier CV. **Curr Probl Cardiol** 1996 Aug;21(8):521–81 (255 ref.)

The use of digitalis in heart failure. Rahimtoola SH, et al. **Curr Probl Cardiol** 1996 Dec;21(12):781–853 (146 ref.)

Novel drugs and current therapeutic approaches in the treatment of heart failure. Bonarjee VV, et al. **Drugs** 1996 Mar;51(3):347–58 (122 ref.)

Lisinopril. A review of its pharmacology and clinical efficacy in the early management of acute myocardial infarction. Goa KL, et al. **Drugs** 1996 Oct;52(4):564–88 (154 ref.)

Optimal treatment of angina in older patients. Doughty RN, et al. **Drugs Aging** 1996 May;8(5):349–57 (39 ref.)

When, and when not, to use digoxin in the elderly. Gosselink AT, et al. **Drugs Aging** 1997 Jun;10(6):411–20 (54 ref.)

Positive action of propionyl-L-carnitine on mechanical performance of papillary muscle from Syrian hamsters with hereditary dilated cardiomyopathy. Maresca P, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):303–7

Failure of dobutamine to improve liver oxygenation during resuscitation with a crystalloid solution after experimental haemorrhagic shock. Nordin AJ, et al. **Eur J Surg** 1996 Dec;162(12):973–9

Slowing of ventricular rate quickly improved ventricular dysfunction and exercise intolerance in patients with chronic atrial tachycardia. Fukumoto Y, et al. **Fukuoka Igaku Zasshi** 1996 Dec;87(12):274–7

Effect of pimobendan on exercise capacity in patients with heart failure: main results from the Pimobendan in Congestive Heart Failure (PICO) trial. Lubsen J, et al. **Heart** 1996 Sep;76(3):223–31

Management of end-stage heart failure [editorial] Moulopoulos SD. **Int J Artif Organs** 1996 Jun;19(6):327–8 (6 ref.)

Novel monohydroxamate drugs attenuate myocardial reperfusion-induced arrhythmias. Collis CS, et al. **Int J Biochem Cell Biol** 1996 Apr;28(4):405–13

Digoxin therapy and survival in heart failure in sinus rhythm. Banerjee AK, et al. **Int J Cardiol** 1996 Jul 5;55(1):9–13

The effect of dobutamine infusion on splanchnic blood flow and oxygen transport in patients with acute pancreatitis [see comments] Ruokonen E, et al. **Intensive Care Med** 1997 Jul;23(7):732–7. Comment in: Intensive Care Med 1997 Jul;23(7):715–7.

Dobutamine and the oxygen uptake/supply relationship in sepsis: from global to regional--nothing is simple and easy [comment] Vogt J, et al. **Intensive Care Med** 1997 Jul; 23(7):715–7 (33 ref.). Comment on: Intensive Care Med 1997 Jul;23(7):732–7.

Value of digoxin in heart failure and sinus rhythm: new features of an old drug? van Veldhuisen DJ, et al. **J Am Coll Cardiol** 1996 Oct;28(4):813–9 (99 ref.)

Positive inotropic therapy: dead end or new horizon? Remme WJ. **J Card Fail** 1996 Dec;2(4 Suppl):S267–76 (51 ref.)

Clinical and autonomic effects of ibopamine as adjunct to angiotensin-converting enzyme inhibitors in chronic heart failure [see comments] Szabó BM, et al. **J Card Fail** 1996 Sep;2(3):185–92. Comment in: J Card Fail 1996 Sep;2(3):193–6. Comment in: J Card Fail 1996 Sep;2(3):197–202.

Cardiopulmonary effects of enoximone or dobutamine and nitroglycerin on mitral valve regurgitation and pulmonary venous hypertension. Hachenberg T, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):453–7

Will calcium sensitizers play a role in the treatment of heart failure? Nielsen-Kudsk JE, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S77–84 (57 ref.)

Digoxin in heart failure. Chadwell M, et al. **J Fam Pract** 1997 May;44(5):442

Pharmacologic management of heart failure among older adults by office-based physicians in the United States. Croft JB, et al. **J Fam Pract** 1997 Apr;44(4):382–90

Corpus cavernosum-spongiosum fistula after blunt pelvic trauma: successful resolution with digoxin. Seftel AD, et al. **J Urol** 1996 Nov;156(5):1769

Whither digitalis? [see comments] Campbell RW. **Lancet** 1997 Jun 28;349(9069):1854–5. Comment in: Lancet 1997 Aug 16;350(9076):519.

Ibopamine and survival in severe congestive heart failure: PRIME II [letter; comment] Girbes AR, et al. **Lancet** 1997 Jul 12;350(9071):147–8. Comment on: Lancet 1997 Apr 5;349(9057):971–7.

Digoxin for patients with heart failure in sinus rhythm [letter; comment] McMurray J, et al. **Lancet** 1997 Aug 16; 350(9076):519. Comment on: Lancet 1997 Jun 28;349(9069):1854–5.

Ibopamine and survival in severe congestive heart failure: PRIME II [letter; comment] Massel D. **Lancet** 1997 Jul 12;350(9071):147. Comment on: Lancet 1997 Apr 5;349(9057):971–7.

The effect of digoxin on mortality and morbidity in patients with heart failure. The Digitalis Investigation Group [see comments] **N Engl J Med** 1997 Feb 20;336(8):525–33. Comment in: N Engl J Med 1997 Feb 20;336(8):575–6. Comment in: N Engl J Med 1997 Jul 10;337(2):129; discussion 130–1. Comment in: N Engl J Med 1997 Jul 10;337(2):129–30; discussion 130–1. Comment in: N Engl J Med 1997 Jul 10;337(2):130; discussion 130–1. Comment in: ACP J Club 1997 Sep–Oct;127(2):34.

Digoxin in patients with heart failure [letter; comment] Böhm M. **N Engl J Med** 1997 Jul 10;337(2):129–30; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Overdose of metoprolol treated with enoximone [letter] Hoeper MM, et al. **N Engl J Med** 1996 Nov 14;335(20):1538

End of the oldest controversy in medicine. Are we ready to conclude the debate on digitalis? [editorial; comment] Packer M. **N Engl J Med** 1997 Feb 20;336(8):575–6. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Digoxin in patients with heart failure [letter; comment] Umans VA, et al. **N Engl J Med** 1997 Jul 10;337(2):129; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Digoxin in patients with heart failure [letter; comment] Zoneraich S. **N Engl J Med** 1997 Jul 10;337(2):130; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Influence of cardiac dysfunction on fast sodium current regulation by Forskolin. Kirstein M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):2018–22

Postoperative use of milrinone for Norwood procedure [letter] Reinoso-Barbero F, et al. **Paediatr Anaesth** 1996; 6(4):342–3

Supranormal cardiac output in the dopamine- and dobutamine-dependent preterm infant. Lopez SL, et al. **Pediatr Cardiol** 1997 Jul–Aug;18(4):292–6

Short-term intravenous milrinone for severe congestive heart failure: the good, bad, and not so good. Varriale P, et al. **Pharmacotherapy** 1997 Mar–Apr;17(2):371–4

Heart failure--perspective on some controversial issues for the clinician. 20th Biennial Congress of the Cardiac Society, October 1996. **S Afr Med J** 1997 Feb;87 Suppl 1:C58

Development of a thyroid hormone analogue for the treatment of congestive heart failure. Morkin E, et al. **Thyroid** 1996 Oct;6(5):521–6 (18 ref.)

[Oxygen transport pattern in burned patient with sepsis under inotropic support] Wu Z, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):266–9 (Eng. Abstr.) **(Chi)**

[Nuclear cardiology study on effective ingredients of Astragalus membranaceus in treating heart failure] Luo HM, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Dec;15(12):707–9 (Eng. Abstr.) **(Chi)**

[Current views on Milrinon--a PDE-III-inhibitor] **Anaesthesist** 1994 Mar;43(3 Suppl):1–16 **(Ger)**

[Therapy of heart failure. II. Therapy of chronic heart failure] Schwinger RH, et al. **Fortschr Med** 1997 Jun 10; 115(16):36–8, 41–5 (0 ref.) (Eng. Abstr.) **(Ger)**

[New positive inotropic drugs] Pfaffendorf M. **Med Monatsschr Pharm** 1997 Aug;20(8):205–17 (94 ref.) **(Ger)**

[Pharmacotherapy of severe heart failure with inodilators--new approaches] Baumann G, et al. **Z Kardiol** 1996;85 Suppl 4:9–19 (49 ref.) (Eng. Abstr.) **(Ger)**

[Inotropic agents: why yes and why not] Ferrari M, et al. **Cardiologia** 1996 Sep;41(9):831–41 (73 ref.) **(Ita)**

[Enoximone in weaning from mechanical circulation support in pediatric patients] Bevilacqua S, et al. **Minerva Anestesiol** 1997 Jan–Feb;63(1–2):9–16 (Eng. Abstr.) **(Ita)**

[Weaning in cardiopulmonary bypass patients with compromised cardiac function. Comparison of enoximone and dopamine] Menichetti A, et al. **Minerva Anestesiol** 1997 Jan–Feb;63(1–2):1–8 (Eng. Abstr.) **(Ita)**

[The effectiveness of enoximone in patients with serious left

ventricular dysfunction submitted for aorto-coronary bypass] Oppizzi M, et al. **Minerva Anestesiol** 1997 Jan-Feb; 63(1-2):17-27 (Eng. Abstr.) **(Ita)**

[Controlled clinical study of doxophylline versus aminophylline in the treatment of acute cardiorespiratory insufficiency syndromes] Checchini M, et al. **Minerva Cardioangiol** 1997 Apr;45(4):185-90 (Eng. Abstr.) **(Ita)**

[Acute myocardial infarct and left ventricular dysfunction. Morphologic bases, clinical aspects and pharmacologic prevention] Perdigão C. **Acta Med Port** 1996 Feb-Mar; 9(2-3):113-9 (46 ref.) (Eng. Abstr.) **(Por)**

[Digitalis and its current importance in the treatment of heart failure (editorial)] Lopes AC. **Rev Assoc Med Bras** 1997 Jan-Mar;43(1):1-2 **(Por)**

TOXICITY

Effect of alpha-tocopherol on isoproterenol induced myocardial infarction in rats--electrocardiographic biochemical and histological evidences. Ithayarasi AP, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):297-302

Behavioral characteristics of two rat strains differing in sensitivity to the cardiotoxic effect of isoprenaline. Starec M, et al. **Int J Neurosci** 1996 Nov;87(3-4):241-8

Acute toxicity of higenamine in mice. Lo CF, et al. **Planta Med** 1997 Feb;63(1):95-6

[Pharmacological correction of impaired tolerance to strophanthin in a model of cardiac decompensation] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1994 May;117(5):487-90 **(Rus)**

CARDIOTONIC STEROIDS see **CARDIAC GLYCOSIDES**

CARDIOVASCULAR AGENTS

7th International Symposium on Cardiovascular Pharmacotherapy. Jerusalem, Israel, June 1-5, 1997. Abstracts. **Cardiovasc Drugs Ther** 1997 Jun;11 Suppl 2:315-421

Complications of pharmacologic stress echocardiography in coronary artery disease. Bigi R. **Clin Cardiol** 1996 Oct; 19(10):776-80 (34 ref.)

Angiopeptin--an immunological review. Motomura N, et al. **Transpl Immunol** 1996 Jun;4(2):99-104 (72 ref.)

ADMINISTRATION & DOSAGE

Safety, tolerance, and efficacy of adenosine as an additive to blood cardioplegia in humans during coronary artery bypass surgery. Mentzer RM Jr, et al. **Am J Cardiol** 1997 Jun 19;79(12A):38-43

Functional and metabolic effects of adenosine in cardioplegia: role of temperature and concentration. Katayama O, et al. **Ann Thorac Surg** 1997 Feb;63(2):449-54; discussion 454-5

Single-dose intramuscular administration of sustained-release Angiopeptin reduces neointimal hyperplasia in a porcine coronary in-stent restenosis model. Hong MK, et al. **Coron Artery Dis** 1997 Feb;8(2):101-4

Auditing GPs' prescribing habits: cardiovascular prescribing frequently continues medication initiated by specialists. de Vries CS, et al. **Eur J Clin Pharmacol** 1996;50(5):349-52

A model for the design and evaluation of algorithms for closed-loop cardiovascular therapy. Woodruff EA, et al. **IEEE Trans Biomed Eng** 1997 Aug;44(8):694-705

Low-dose intravenous diltiazem--efficacy and safety in supraventricular tachyarrhythmias. Seth S, et al. **Indian Heart J** 1996 Jul-Aug;48(4):365-7

Delayed administration of dexrazoxane provides cardioprotection for patients with advanced breast cancer treated with doxorubicin-containing therapy. Swain SM, et al. **J Clin Oncol** 1997 Apr;15(4):1333-40

Intravenous co-infusion of adenosine and norepinephrine preconditions the heart without adverse hemodynamic effects [see comments] Cohen MV, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):236-42. Comment in: J Thorac Cardiovasc Surg 1997 Aug;114(2):234-5.

Intravenous co-infusion of adenosine and norepinephrine [editorial; comment] Kloner RA, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):234-5. Comment on: J Thorac Cardiovasc Surg 1997 Aug;114(2):236-42.

Use of ICRF-187 for prevention of anthracycline cardiotoxicity in children: preliminary results [see comments] Schiavetti A, et al. **Pediatr Hematol Oncol** 1997 May-Jun;14(3):213-22. Comment in: Pediatr Hematol Oncol 1997 May-Jun;14(3):iii-vi.

Effect of locally and systemically administered angiopeptin on growth factor expression in syngeneic deendothelialized heterotopic aorta grafts in the rat. Motomura N, et al. **Transplant Proc** 1997 Sep;29(6):2563-4

[Angiopeptin versus placebo for reductin of restenosis after PTCA treatment. A randomized, double-blind study] Eriksen UH, et al. **Ugeskr Laeger** 1996 Nov 11; 158(46):6605-8 (Eng. Abstr.) **(Dan)**

[The effect of Taprostene on platelet activation and clinical course after percutaneous transluminal angioplasty] Heinz M, et al. **Vasa** 1996;25(1):65-72 (Eng. Abstr.) **(Ger)**

[Intravenous diltiazem in the reversion to sinus rhythm in supraventricular tachyarrhythmias] Luciardi H, et al. **Arch Inst Cardiol Mex** 1996 Nov-Dec;66(6):505-9 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Impact of medical interventions on quality of life in cardiovascular disease: a consensus viewpoint. Arnold JM, et al. **Can J Cardiol** 1997 Mar;13(3):235-6 (08 ref.)

Case-control studies of cardiovascular medications as risk factors for clinically diagnosed depressive disorders in a hospitalized population. Patten SB, et al. **Can J Psychiatry** 1996 Sep;41(7):469-76

Evidence of depression provoked by cardiovascular medication: a prescription sequence symmetry analysis. Hallas J. **Epidemiology** 1996 Sep;7(5):478-84

Hepatotoxicity of anticholesterol, cardiovascular, and endocrine drugs and hormonal agents. Lahoti S, et al. **Gastroenterol Clin North Am** 1995 Dec;24(4):907-22 (111 ref.)

An unusual case of steatorrhoea [letter; comment] Benbow A, et al. **Lancet** 1997 Jun 21;349(9068):1839. Comment on: Lancet 1997 Apr 12;349(9058):1106.

Fatality due to intravenous diltiazem for acute ventricular rate control. Moser LR, et al. **Pharmacotherapy** 1996 Mar-Apr;16(2):306-10

Relationship between plasma perhexiline concentration and symptomatic status during short-term perhexiline therapy. Stewart S, et al. **Ther Drug Monit** 1996 Dec;18(6):635-9

BLOOD

Spectrophotometric determination of the cardioprotective drug GP531 in human plasma. Grettenberger HM, et al. **J Biochem Biophys Methods** 1996 Oct 15;33(1):25-30

On-line column-switching high-performance liquid chromatography analysis of cardiovascular drugs in serum with automated sample clean-up and zone-cutting technique to perform chiral separation. Mangani F, et al. **J Chromatogr A** 1997 Feb 21;762(1-2):235-41

Quantitative determination of BMS186716, a thiol compound, in dog plasma by high-performance liquid chromatography-positive ion electrospray mass spectrometry after formation of the methyl acrylate adduct. Jemal M, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):109-16

Therapeutic, toxic, and lethal concentrations in human fluids of 90 drugs affecting the cardiovascular and hematopoietic systems. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997; 35(4):345-51

Effects of cigarette smoke inhalation on plasma diltiazem levels in rats. Matsuka N, et al. **Methods Find Exp Clin Pharmacol** 1997 Apr;19(3):173-9

Relationship between plasma perhexiline concentration and symptomatic status during short-term perhexiline therapy. Stewart S, et al. **Ther Drug Monit** 1996 Dec;18(6):635-9

CHEMICAL SYNTHESIS

Synthesis and pharmacological profile of some chloroxanthone-1, 4-dihydropyridine derivatives. Bisi A, et al. **Arzneimittelforschung** 1996 Sep;46(9):848-51

Cardiovascular effects of some 2-substituted triazolo[1,5-a]pyrimidin-7(4H)one-6-carboxylic acid ethyl esters. El-Tahir KE, et al. **Boll Chim Farm** 1995 Dec; 134(11):604-8

Dual metalloprotease inhibitors: mercaptoacetyl-based fused heterocyclic dipeptide mimetics as inhibitors of angiotensin-converting enzyme and neutral endopeptidase. Robl JA, et al. **J Med Chem** 1997 May 23;40(11):1570-7

Synthesis, structural analysis and pharmacological effects of N2-substituted 3,4-dihydrobenzo[h]quinolin-2-amines. Wendelin W, et al. **Pharmazie** 1996 Nov;51(11):816-22

CHEMISTRY

On-line column-switching high-performance liquid chromatography analysis of cardiovascular drugs in serum with automated sample clean-up and zone-cutting technique to perform chiral separation. Mangani F, et al. **J Chromatogr A** 1997 Feb 21;762(1-2):235-41

In-vitro dissolution profile comparison: statistics and analysis, model dependent approach. Sathe PM, et al. **Pharm Res** 1996 Dec;13(12):1799-803

DIAGNOSTIC USE

Adenosine stress echocardiography. Chaudhry FA. **Am J Cardiol** 1997 Jun 19;79(12A):25-9 (43 ref.)

Myocardial perfusion imaging during adenosine-induced coronary hyperemia. Iskandrian AE, et al. **Am J Cardiol** 1997 Jun 19;79(12A):20-4 (37 ref.)

Stress echocardiography. Mishra MB, et al. **Br J Clin Pract** 1997 Jan-Feb;51(1):41-6 (45 ref.)

Preoperative cardiac risk assessment with adenosine stress dual-isotope myocardial single-photon emission computed tomography. Maunoury C, et al. **Clin Cardiol** 1996 Jun; 19(6):488-90

New diagnostic tests for Cushing's syndrome: uses of naloxone, vasopressin and alprazolam. Jackson RV, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):579-81

Slow bolus injection of ribose in the identification of thallium-201 redistribution following combined adenosine/dynamic exercise stress. Gunning MG, et al. **Eur Heart J** 1996 Sep;17(9):1438-43

ECONOMICS

A position paper on drug-pricing strategies for prescription pharmaceuticals in Canada. Canadian Cardiovascular Society [see comments] **Can J Cardiol** 1997 Jan;13(1):33-45 . Comment in: Can J Cardiol 1997 Jan;13(1):31-2. Comment in: Can J Cardiol 1997 Jul;13(7):689-90. **(Eng, Fre)**

Reference-based pricing in British Columbia: implications for cardiologists--an analysis [see comments] Boulet AP, et al. **Can J Cardiol** 1997 Jan;13(1):46-51 (23 ref.). Comment in: Can J Cardiol 1997 Jan;13(1):31-2. Comment in: Can J Cardiol 1997 Jul;13(7):640, 689.

Reference-based pricing of prescription drugs [editorial; comment] [see comments] McLaughlin PR. **Can J Cardiol** 1997 Jan;13(1):31-2. Comment on: Can J Cardiol 1997 Jan;13(1):33-45. Comment on: Can J Cardiol 1997 Jan;13(1):46-51. Comment in: Can J Cardiol 1997 Jul;13(7):689-90.

[The elderly cardiovascular patient in general practice. Health care costs--drugs--economic feasibility] Schmidt K. **Fortschr Med** 1996 Mar 10;114(7):43-4 **(Ger)**

ISOLATION & PURIFICATION

Characterization of flavonoids in extracts from four species of Epimedium by micellar electrokinetic capillary chromatography with diode-array detection. Liang HR, et al. **J Chromatogr Sci** 1997 Mar;35(3):117-25

METABOLISM

ATP catabolism and adenosine generation during ischemia in the aging heart. Ramani K, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):113-24

PHARMACOKINETICS

Perhexiline--stable plasma concentrations with formulation change. Siebert WJ, et al. **Aust N Z J Med** 1996 Oct; 26(5):707-8

Dose-independent pharmacokinetics of the cardioprotective agent dexrazoxane in dogs. Baldwin JR, et al. **Biopharm Drug Dispos** 1996 Aug;17(6):541-50

Cardiac and hemodynamic effects of TZC-5665, a novel pyridazinone derivative, and its metabolite in humans and dogs. Araki S, et al. **Gen Pharmacol** 1997 Apr;28(4):545-53

Pharmacokinetic and pharmacodynamic properties of conventional and CD-formulated diltiazem in cats. Johnson LM, et al. **J Vet Intern Med** 1996 Sep-Oct;10(5):316-20

PHARMACOLOGY

Effects of adenosine on ex vivo filtragometry platelet aggregation in relation to plasma levels. Jonzon B, et al. **Acta Physiol Scand** 1997 Mar;159(3):245-8

Antecedent ischemia reverses effects of adenosine on glycolysis and mechanical function of working hearts. Finegan BA, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2116-25

Protective effects of adenosine on myocyte contractility during cardioplegic arrest. Cox MH, et al. **Ann Thorac Surg** 1997 Apr;63(4):981-7

Beneficial effect of MET-88, a gamma-butyrobetaine hydroxylase inhibitor, on energy metabolism in ischemic dog hearts. Kirimoto T, et al. **Arch Int Pharmacodyn Ther** 1996 Mar-Apr;331(2):163-78

A model of anoxic preconditioning in the isolated rat cardiac myocyte. Importance of adenosine and insulin. Cave AC, et al. **Basic Res Cardiol** 1996 May-Jun;91(3):210-8

Modulation of transferrin receptor expression by dexrazoxane (ICRF-187) via activation of iron regulatory protein. Weiss G, et al. **Biochem Pharmacol** 1997 May 15;53(10):1419-24

Adenosine A2 receptor-induced inhibition of leukotriene B4 synthesis in whole blood ex vivo. Krump E, et al. **Br J Pharmacol** 1996 Apr;117(8):1639-44

Mediation by nitric oxide of the indirect effects of adenosine on calcium current in rabbit heart pacemaker cells. Shimoni Y, et al. **Br J Pharmacol** 1996 Dec;119(7):1463-9

Comparison of hemodynamic and sympathoneural responses to adenosine and lower body negative pressure in man. Rongen GA, et al. **Can J Physiol Pharmacol** 1997 Feb; 75(2):128-34

Comparison of the protective effects against chronic doxorubicin cardiotoxicity and the rates of iron (III) displacement reactions of ICRF-187 and other bisdiketopiperazines. Herman EH, et al. **Cancer Chemother Pharmacol** 1997;40(5):400-8

Twenty-four-hour variations in the sensitivity of rat aorta to vasoactive agents. Keskil Z, et al. **Chronobiol Int** 1996 Dec;13(6):465-75

Reflexes mediated by cardiac sympathetic afferents during myocardial ischaemia: role of adenosine. Thames MD, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):709-14 (33 ref.)

Cardiac electrophysiological effects of falipamil in the conscious dog: comparison with alinidine. Boucher M, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):93-8

Inhibition of anthracycline semiquinone formation by ICRF-187 (dexrazoxane) in cells. Malisza KL, et al. **Free Radic Biol Med** 1996;20(7):905-14

Compared effects of ruthenium red and cis [Ru(NH3)4Cl2]Cl on the isolated ischaemic-reperfused rat heart. Leperre A, et al. **Fundam Clin Pharmacol** 1995;9(6):545-53

Effect of African-American race and hypertensive left ventricular hypertrophy on coronary vascular reactivity and endothelial function. Houghton JL, et al. **Hypertension** 1997 Mar;29(3):706-14

Radioprotective effects of diltiazem on cytogenetic damage and survival in gamma ray exposed mice. Goel HC, et al. **Indian J Exp Biol** 1996 Dec;34(12):1194–200

Angiopeptin inhibits thymidine incorporation by explants of porcine coronary arteries. Vargas R, et al. **J Cardiovasc Pharmacol** 1997 Feb;29(2):278–83

Cardiovascular effects of (–)-11-OH-delta 8-tetrahydrocannabinol-dimethylheptyl in rats. Vidrio H, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):332–6

Usefulness, usability, and quality criteria for noninvasive methods in cardiovascular clinical pharmacology. de Mey C, et al. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):11S–20S (109 ref.)

A novel mechanism for cyclosporine: inhibition of myocardial ischemia and reperfusion injury in a heterotopic rabbit heart transplant model. Gatewood LB, et al. **J Heart Lung Transplant** 1996 Sep;15(9):936–47

Adenosine preconditioning of human myocardium is dependent upon the ATP-sensitive K+ channel. Cleveland JC Jr, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):175–82

Doxorubicin-induced apoptosis in spontaneously hypertensive rats: differential effects in heart, kidney and intestine, and inhibition by ICRF-187. Zhang J, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1931–43

Pharmacokinetic and pharmacodynamic properties of conventional and CD-formulated diltiazem in cats. Johnson LM, et al. **J Vet Intern Med** 1996 Sep–Oct;10(5):316–20

Cardiovascular effects of the fungal extract of basidiomycetes sp. YL8006. Andreacchi AS, et al. **Life Sci** 1997; 60(22):1987–94

Cardiovascular receptors as drug targets. Eur omega Conferences' Cardiovascular receptors as drug targets. Institut Pasteur, Paris, France, 3–4 October 1996. Maack T. **Mol Med Today** 1997 Mar;3(3):101–2

Preclinical comparison of bis-diketopiperazine-propane (dexrazoxane) and bis-diketopiperazine-ethane (antimet) on the adriamycin-cardiotoxic effect. Květina J, et al. **Neoplasma** 1997;44(2):97–9

Protective effects of cardioxane against anthracycline-induced cardiotoxicity in relapsed acute myeloid leukemias. Lemež P, et al. **Neoplasma** 1996; 43(6):417–9

Isolation and cardiovascular activity of a second bradykinin-related peptide ([Arg0, Trp5, Leu8]bradykinin) from trout. Conlon JM, et al. **Peptides** 1996;17(3):531–7

The somatostatin analog angiopeptin does not reduce chronic hypoxic pulmonary hypertension in rats. Sidney EJ, et al. **Proc Soc Exp Biol Med** 1996 Oct;213(1):43–9

Left ventricular myocardial perfusion and function in systemic sclerosis before and after diltiazem treatment. Geirsson AJ, et al. **Scand J Rheumatol** 1996;25(5):317–20

Effect of diltiazem on plasma concentrations of oxypurines and uric acid. Yeung PK, et al. **Ther Drug Monit** 1997 Jun;19(3):286–91

Long-lasting effect of dexrazoxane against anthracycline cardiotoxicity in rats. Della Torre P, et al. **Toxicol Pathol** 1996 Jul–Aug;24(4):398–402

Adenosine in the mammalian heart: nothing to get excited about. Pelleg A, et al. **Trends Pharmacol Sci** 1997 Jul; 18(7):236–8 (23 ref.)

[Comparative study of the antioxidant activity of gamma-butyrobetaine and its natural and synthetic derivatives in vitro] Shutenko ZhI, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):54–7 (Eng. Abstr.) **(Rus)**

[The protective action of adenosine in the development of the "calcium paradox" in the isolated heart] Alabovskiĭ VV, et al. **Fiziol Zh** 1997;43(3–4):48–53 (Eng. Abstr.) **(Rus)**

[The mechanisms of the cardioprotective action of the n-3 class of polyunsaturated fatty acids] Sazontova TG, et al. **Patol Fiziol Eksp Ter** 1997 Apr–Jun;(2):41–6 (86 ref.) **(Rus)**

[A clinico-pharmacological study of the antianginal and anti-ischemic efficacy of a new drug form of diltiazem with delayed release] Belousov IuB, et al. **Ter Arkh** 1997; 69(3):61–3 **(Rus)**

[Preparation and pharmacologic characteristics of aryloxyaminopropanol derivatives with an assumed cardiovascular effect] Mlynárová R, et al. **Ceska Slov Farm** 1996 Sep;45(5):260–4 (Eng. Abstr.) **(Slo)**

[Effect of adenosine on glycolysis of cultured cardiac myocytes of newborn rats] Díaz A, et al. **Arch Inst Cardiol Mex** 1996 May–Jun;66(3):202–9 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Adenosine for myocardial protection in acute myocardial infarction. Granger CB. **Am J Cardiol** 1997 Jun 19; 79(12A):44–8 (55 ref.)

Use of glucagon for acute intravenous diltiazem toxicity. Mahr NC, et al. **Am J Cardiol** 1997 Jun 1;79(11):1570–1

Suppression of experimental aneurysmal degeneration with chemically modified tetracycline derivatives. Petrinec D, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:263–5

Intravascular adenosine at reperfusion reduces infarct size and neutrophil adherence. Todd J, et al. **Ann Thorac Surg** 1996 Nov;62(5):1364–72

Combined treatment of probucol with diltiazem regresses atherosclerosis induced by 196 cholesterol diet in rabbit aorta. Kouzuma R, et al. **Artery** 1995;21(6):337–51

On the value of large multicenter drug intervention trials. Dernol P, et al. **Arzneimittelforschung** 1997 Aug; 47(8):985–9 (34 ref.)

Perhexiline improves symptomatic status in elderly patients with severe aortic stenosis. Unger SA, et al. **Aust N Z J Med** 1997 Feb;27(1):24–8

Preferences of veterinarians for drugs to treat heart disease in dogs and cats. Watson AD, et al. **Aust Vet J** 1995 Nov; 72(11):401–3

Continuous subcutaneous angiopeptin treatment significantly reduces neointimal hyperplasia in a porcine coronary in-stent restenosis model. Hong MK, et al. **Circulation** 1997 Jan 21;95(2):449–54

Reduction of transient myocardial ischemia with pravastatin in addition to the conventional treatment in patients with angina pectoris. REGRESS Study Group [see comments] van Boven AJ, et al. **Circulation** 1996 Oct 1;94(7):1503–5 . Comment in: Circulation 1997 Aug 5;96(3):1059–60.

Heart failure 1997: a time to take stock. Massie BM. **Curr Opin Cardiol** 1997 May;12(3):209–17 (56 ref.)

Treatment of ischaemic heart disease. Role of drugs, surgery and angioplasty in unstable angina patients. Conti CR. **Eur Heart J** 1997 May;18 Suppl B:B11–5 (25 ref.)

Treating the diabetic patient with coronary disease [editorial; comment] Kjekshus J. **Eur Heart J** 1996 Sep;17(9):1298–301 (22 ref.). Comment on: Eur Heart J 1996 Sep;17(9):1337–44.

Secondary prevention of myocardial infarction: new horizons for pharmacotherapy. Introduction. Taylor SH. **Eur Heart J** 1996 Dec;17 Suppl F:1–2

Cardiac and hemodynamic effects of TZC-5665, a novel pyridazinone derivative, and its metabolite in humans and dogs. Araki S, et al. **Gen Pharmacol** 1997 Apr;28(4):545–53

Silent ischaemia: to treat or not to treat? Deedwania PC. **Indian Heart J** 1996 Jul–Aug;48(4):415–9 (27 ref.)

State of the art--treatment of peripheral occlusive arterial disease (POAD) with drugs vs. vascular reconstruction or amputation. Haustein KO. **Int J Clin Pharmacol Ther** 1997 Jul;35(7):266–74 (101 ref.)

How best to determine magnesium requirement: need to consider cardiotherapeutic drugs that affect its retention [editorial; comment] Seelig M, et al. **J Am Coll Nutr** 1997 Feb;16(1):4–6. Comment on: J Am Coll Nutr 1997 Feb;16(1):22–31.

Use of digoxin, diuretics, beta blockers, angiotensin-converting enzyme inhibitors, and calcium channel blockers in older patients in an academic hospital-based geriatrics practice. Fishkind D, et al. **J Am Geriatr Soc** 1997 Jul;45(7):809–12

Antiischemic and antiarrhythmic activities of some novel alinidine analogs in the rat heart. Challinor-Rogers JL, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):499–507

Dexrazoxane for protection against cardiotoxic effects of anthracyclines [letter; comment] Sehested M, et al. **J Clin Oncol** 1996 Oct;14(10):2884. Comment on: J Clin Oncol 1996 Feb;14(2);328–31.

Cardioprotection with dexrazoxane for doxorubicin-containing therapy in advanced breast cancer. Swain SM, et al. **J Clin Oncol** 1997 Apr;15(4):1318–32

Multicenter randomized controlled clinical trial to evaluate cardioprotection of dexrazoxane versus no cardioprotection in women receiving epirubicin chemotherapy for advanced breast cancer. Venturini M, et al. **J Clin Oncol** 1996 Dec; 14(12):3112–20

Arginine vasopressin receptor antagonists for treatment of vasogenic brain edema: an experimental study. Kagawa M, et al. **J Neurotrauma** 1996 May;13(5):273–9

Dexrazoxane (ICRF-187): a cardioprotective agent during anthracycline chemotherapy. O'Marcaigh AS, et al. **J Pediatr Oncol Nurs** 1997 Apr;14(2):96–8 (11 ref.)

Adenosine for reversal of hemorrhagic shock in rabbits. Abdel-Zaher AO, et al. **Jpn J Pharmacol** 1996 Nov; 72(3):247–54

Coronary angioplasty versus medical therapy for angina: the second Randomised Intervention Treatment of Angina (RITA-2) trial. RITA-2 trial participants. **Lancet** 1997 Aug 16;350(9076):461–8

Development of new drugs for chronic congestive heart failure and stable angina--a clinicians's view. Permanyer-Miralda G. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl C:39–40

New therapeutic agents marketed in 1995. Hussar DA. **Pa Med** 1996 Apr;99(4):43–6

The pharmacological armament of pediatric cardiology [editorial] Abdulla R. **Pediatr Cardiol** 1997 May–Jun; 18(3):161

The pediatric cardiology pharmacopoeia. Abdulla R, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):162–83

ICRF-187 as a cardioprotectant in children treated with anthracyclines [editorial; comment] Blatt J. **Pediatr Hematol Oncol** 1997 May–Jun;14(3):iii–vi (13 ref.) . Comment on: Pediatr Hematol Oncol 1997 May–Jun;14(3):213–22.

Acute congestive heart failure. The need for aggressive therapy. Levin TN. **Postgrad Med** 1997 Jan;101(1):97–100, 103–4, 108–11 (16 ref.)

Drug therapy for congestive heart failure. Appropriate choices can prolong life. Sorrentino MJ. **Postgrad Med** 1997 Jan;101(1):83–6, 89–90, 93–4 (15 ref.)

ELITE study raises losartan's profile in heart failure therapy debate. **S Afr Med J** 1997 Jun;87 Suppl 3:C182

Combined neuroprotection and reperfusion therapy for stroke. Effect of lubeluzole and diaspirin cross-linked hemoglobin in experimental focal ischemia. Aronowski J, et al. **Stroke** 1996 Sep;27(9):1571–6; discussion 1576–7

Cardioprotection by dexrazoxane (Cardioxane; ICRF 187): progress in supportive care. Hellmann K. **Support Care Cancer** 1996 Jul;4(4):305–7 (5 ref.)

[Pharmacotherapy in patients after myocardial revascularization surgery 1991–1995] Bartuněk L, et al. **Vnitr Lek** 1997 Feb;43(2):66–9 (Eng. Abstr.) **(Cze)**

[Chronic venous insufficiency--from pathophysiology to therapy. 1: Pathophysiology--compression treatment--systemic pharmacotherapy] Peschen M, et al. **Fortschr Med** 1996 Sep 20;114(26):315–8 (0 ref.) (Eng. Abstr.) **(Ger)**

[Secondary prevention in patients before and after percutaneous transluminal coronary angioplasty: 5-year follow-up] Muntwyler J, et al. **Schweiz Med Wochenschr** 1997 Apr 5;127(14):573–8 (Eng. Abstr.) **(Ger)**

[The prevention of anthracycline-induced cardiomyopathy with a chelating agent (dexrazoxane = ICRF-187)] Sauer H. **Strahlenther Onkol** 1997 Jan;173(1):51–2 **(Ger)**

[Current status of drug therapy in rehabilitation after myocardial infarct] Benzer W. **Wien Klin Wochenschr Suppl** 1997;2:3–5 (17 ref.) **(Ger)**

[Multi-drug management after myocardial infarct] Kritz H, et al. **Wien Klin Wochenschr Suppl** 1997;2:17–24 (73 ref.) (Eng. Abstr.) **(Ger)**

[Prognosis of heart failure--value of drug therapy] Felix SB. **Z Kardiol** 1996;85 Suppl 4:1–7 (34 ref.) (Eng. Abstr.) **(Ger)**

[Differences in pharmacologic treatment after acute myocardial infarction. The role of treatment effectiveness] Bobbio M, et al. **G Ital Cardiol** 1997 Jun;27(6):549–56 (Eng. Abstr.) **(Ita)**

[The effect of fructose-1,6-diphosphate, cytochrome c and their combination on the size of the necrotic area in transient myocardial ischemia] Imatdieva RM, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):32–4 (Eng. Abstr.) **(Rus)**

[The effect of antianginal preparations on the hemodynamics and metabolism of the ischemic myocardium] Makolkin VI, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):18–20 (Eng. Abstr.) **(Rus)**

[The protective effect of 17 beta-estradiol in experimental myocardial infarct] Mambetova AZh, et al. **Eksp Klin Farmakol** 1996 Mar–Apr;59(2):15–6 (Eng. Abstr.) **(Rus)**

[The spectrum of the anti-ischemic activity of immobilized cytochrome c] Sernov LN, et al. **Eksp Klin Farmakol** 1996 Mar–Apr;59(2):12–4 (Eng. Abstr.) **(Rus)**

[Cardioxan as a cardioprotector in antineoplastic chemotherapy] Lichinitser MP, et al. **Klin Med (Mosk)** 1996;74(5):65–7 **(Rus)**

[The cardioprotective action of the anticonvulsant preparation sodium valproate in disorders of cardiac contractile function caused by acute myocardial infarct in rats] Belkina LM, et al. **Patol Fiziol Eksp Ter** 1997 Apr–Jun; (2):18–21 (Eng. Abstr.) **(Rus)**

[Calcium antagonists--the first-line preparations in modern cardiology (II)] Karpov IuA, et al. **Ter Arkh** 1997; 69(1):74–8 (58 ref.) **(Rus)**

[The effect of diltiazem on systemic and cerebral hemodynamics and on the blood rheological properties in patients with ischemic stroke and atherosclerotic involvement of the major cerebral arteries] Ishchenko MM, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):127–31 (Eng. Abstr.) **(Ukr)**

[The use of mildronate and trental in treating disorders of hemorheology and the intracardiac hemodynamics in patients with chronic obstructive bronchitis] Sakharchuk II, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):122–5 (Eng. Abstr.) **(Ukr)**

TOXICITY

Effects of lidocaine, ajmaline, and diltiazem on ventricular defibrillation energy requirements in isolated rabbit heart. Anvari A, et al. **J Cardiovasc Pharmacol** 1997 Apr; 29(4):429–35

URINE

Therapeutic, toxic, and lethal concentrations in human fluids of 90 drugs affecting the cardiovascular and hematopoietic systems. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997; 35(4):345–51

CARDIOVASCULAR DECONDITIONING

Effects of head down tilt on hemodynamics, fluid volumes, and plasma Na-K pump inhibitor in rats. Pamnani MB, et al. **Aviat Space Environ Med** 1996 Oct;67(10):928–34

Abnormal exercise electrocardiograms in master athletes after three months of deconditioning. Katzel LI, et al. **J Am Geriatr Soc** 1997 Jun;45(6):744–6

PHYSIOLOGY

Effects of thoracic volume expansion on cardiorenal function in the conscious rat. McCombs GB, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1086–91

Cardiovascular deconditioning and venous air embolism in simulated microgravity in the rat. Robinson RR, et al.

Aviat Space Environ Med 1996 Sep;67(9):835–40
Cardiovascular deconditioning through head-down tilt bed rest increases blood pressure variability and plasma renin activity. Schmedtje JF Jr, et al.
Aviat Space Environ Med 1996 Jun;67(6):539–46
Effect of standing or walking on physiological changes induced by head down bed rest: implications for spaceflight. Vernikos J, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1069–79
Cardiac atrophy after bed-rest deconditioning: a nonneural mechanism for orthostatic intolerance. Levine BD, et al. **Circulation** 1997 Jul 15;96(2):517–25
Intensive exercise training during bed rest attenuates deconditioning. Greenleaf JE. **Med Sci Sports Exerc** 1997 Feb;29(2):207–15

CARDIOVASCULAR DISEASE (SPECIALTY) see **CARDIOLOGY**

CARDIOVASCULAR DISEASES

Meeting of the Working Group on Epidemiology and Prevention of the European Society of Cardiology. Pilsen, Czech Republic, May 22–25, 1996. Abstracts.
Acta Cardiol 1997;52(2):125–222
Joint meeting of the Belgian and Dutch Working Groups in Cardiology. Brussels, Belgium, 6–7 December 1996. Abstracts. **Acta Cardiol** 1997;52(1):75–89
Flavonoids and heart disease [editorial; comment] Katan MB. **Am J Clin Nutr** 1997 May;65(5):1542–3. Comment on: Am J Clin Nutr 1997 May;65(5):1489–94.
Precursors of cardiovascular risk in young adults from a biracial (black–white) population: the Bogalusa Heart Study. Berenson GS, et al. **Ann N Y Acad Sci** 1997 May 28;817:189–98 (35 ref.)
Vascular gene transfer using smooth muscle cells. Clowes AW. **Ann N Y Acad Sci** 1997 Apr 15;811:293–7; discussion 297–8 (18 ref.)
Multidisciplinary intervention in adolescents with cardiovascular risk factors. Copperman N, et al.
Ann N Y Acad Sci 1997 May 28;817:199–207 (20 ref.)
Circadian blood pressure variation related to morbidity and mortality from cerebrovascular and cardiovascular diseases. Imai Y, et al. **Ann N Y Acad Sci** 1996 Aug 15; 783:172–85 (50 ref.)
Weight-independent cardiovascular fitness and coronary risk factors. Gutin B, et al. **Arch Pediatr Adolesc Med** 1997 May;151(5):462–5
Interactions between dietary fat, fish, and fish oils and their effects on platelet function in men at risk of cardiovascular disease. Mori TA, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):279–86
The prevalence of insulin resistance and other cardiovascular disease risk factors in healthy elderly southwestern Nigerians. Ezenwaka CE, et al. **Atherosclerosis** 1997 Feb 10;128(2):201–11
Relationship of serum ferritin concentrations with metabolic cardiovascular risk factors in men without evidence for coronary artery disease. Halle M, et al. **Atherosclerosis** 1997 Feb 10;128(2):235–40
Prevalence of hyperapobetalipoproteinemia and factors affecting the phenotype expression in children and young adults. The Cardiovascular Risk in Young Finns Study. Nuotio IO, et al. **Atherosclerosis** 1996 Apr 26;122(1):79–88
Whole blood viscosity, blood pressure and cardiovascular risk factors in healthy blood donors. Fossum E, et al.
Blood Press 1997 May;6(3):161–5
Short term and long term effects of alcohol on blood pressure, cardiovascular risk and all cause mortality. Sleight P. **Blood Press** 1996 Jul;5(4):201–5 (24 ref.)
The endothelin system in cardiovascular disease [editorial] Newby DE, et al. **BMJ** 1997 Feb 22;314(7080):531–2
4th International Conference on Preventive Cardiology jointly with the 37th annual meeting of the Council on Epidemiology and Prevention, American Heart Association. Montreal, June 29–July 3, 1997. Abstracts.
Can J Cardiol 1997 Jun;13 Suppl B:11B–398B
Chest 1996. World Congress. San Francisco, California, October 27–31, 1996. Abstracts. **Chest** 1996 Oct;110(4 Suppl):1S–234S
Death by design. Programmed cell death in cardiovascular biology and disease. MacLellan WR, et al. **Circ Res** 1997 Aug;81(2):137–44 (102 ref.)
69th Scientific Sessions of the American Heart Association. New Orleans, Louisiana, November 10–13, 1996. Abstracts. **Circulation** 1996 Oct 15;94(8 Suppl):I1–904
Development of cardiovascular risk factors from ages 8 to 18 in Project HeartBeat! Study design and patterns of change in plasma total cholesterol concentration. Labarthe DR, et al. **Circulation** 1997 Jun 17;95(12):2636–42
Body height, cardiovascular risk factors, and risk of stroke in middle-aged men and women. A 14-year follow-up of the Finnmark Study. Njølstad I, et al. **Circulation** 1996 Dec 1;94(11):2877–82
Perspective: a mechanism underlying homocysteinemia and increased risk of coronary artery and cerebrovascular disease [letter] Pilgeram L. **Circulation** 1996 Dec 1; 94(11):2990
Impact of reduced heart rate variability on risk for cardiac events. The Framingham Heart Study. Tsuji H, et al.
Circulation 1996 Dec 1;94(11):2850–5
Hyperlipidaemia and cardiovascular disease.
Curr Opin Lipidol 1996 Aug;7(4):B37–56
Hyperlipidaemia and cardiovascular disease.
Curr Opin Lipidol 1997 Aug;8(4):B47–62
Hyperlipidaemia and cardiovascular disease. Hanna FW.
Curr Opin Lipidol 1996 Aug;7(4):U125–30
Hyperlipidaemia and cardiovascular disease. Penny WJ.
Curr Opin Lipidol 1996 Oct;7(5):U157–61
Defining outcomes in older patients with cardiovascular disease. Pashos CL. **Drugs Aging** 1997 Apr;10(4):243–8 (36 ref.)
XVIIIth Congress of the European Society of Cardiology. Birmingham, United Kingdom, August 25–29, 1996. Abstracts. **Eur Heart J** 1996 Aug;17 Abstr Suppl:1–646
The association between dietary patterns and cardio vascular disease risk indicators in healthy youngsters: results covering fifteen years of longitudinal development. Post GB, et al. **Eur J Clin Nutr** 1997 Jun;51(6):387–93
Endothelin levels decrease after oral and nonoral estrogen in postmenopausal women with increased cardiovascular risk factors. Wilcox JG, et al. **Fertil Steril** 1997 Feb; 67(2):273–7
British Cardiac Society Annual Conference. Manchester, 20–22 May 1997. Abstract. **Heart** 1997 May;77 Suppl 1:P1–77
48th annual conference of the Cardiological Society of India. October 6–9, 1996. Abstracts. **Indian Heart J** 1996 Sep–Oct; 48(5):475–557
Mediterranean Association of Cardiology and Cardiac Surgery 9th annual meeting. Tel-Aviv, Israel, 20–23 October 1996. Proceedings and abstracts. **Isr J Med Sci** 1996 Oct;32(10):795–1050
The relation between "long-term exposure" to lifestyle during youth and young adulthood and risk factors for cardiovascular disease at adult age. Twisk JW, et al.
J Adolesc Health 1997 Apr;20(4):309–19
American College of Cardiology 46th annual scientific session. Anaheim, California, March 16–19, 1997 Abstracts.
J Am Coll Cardiol 1997 Feb;29(2 Suppl A):1A–678A
DOs should be source of patients' education [editorial] Rosner HM. **J Am Osteopath Assoc** 1996 Feb;96(2):85
The meaning of the acronym MULTIFIT [letter; comment] Cheng TO. **J Cardiovasc Nurs** 1997 Jan;11(2):ix. Comment on: J Cardiovasc Nurs 1996 Oct;11(1):76–87.
Bibliography current world literature. **J Cardiovasc Risk** 1996 Jun;3(3):318–41
Bibliography current world literature. **J Cardiovasc Risk** 1997 Feb;4(1):47–66
Bibliography current world literature. **J Cardiovasc Risk** 1996 Oct;3(5):473–82
Bibliography current world literature. **J Cardiovasc Risk** 1996 Apr;3(2):233–61
Bibliography of the current world literature.
J Cardiovasc Risk 1996 Dec;3(6):535–49
Randomized trials of dietary antioxidants in cardiovascular disease prevention and treatment. Gaziano JM.
J Cardiovasc Risk 1996 Aug;3(4):368–71 (19 ref.)
A decrease in cardiovascular risk factors in healthy 40-year-old Swedish men between 1980–1983 and 1991–1992. Tornvall P, et al. **J Cardiovasc Risk** 1996 Aug; 3(4):379–83
Association between plasma total testosterone and cardiovascular risk factors in healthy adult men: The Telecom Study. Simon D, et al.
J Clin Endocrinol Metab 1997 Feb;82(2):682–5
Circulatory Biomechanics and Cardiovascular Pathologies. Marseille, France, July 7–8, 1995. Abstracts.
J Endovasc Surg 1995 Aug;2(3):302–16
Alcohol and hypertension—kill or cure? Beilin LJ, et al.
J Hum Hypertens 1996 Feb;10 Suppl 2:S1–5 (56 ref.)
Differences in response to nutrition and fitness education programmes in relation to baseline levels of cardiovascular risk in 10 to 12-year-old children. Burke V, et al.
J Hum Hypertens 1996 Sep;10 Suppl 3:S99–106
Survey of cardiovascular risk factors in newly arrived Yemenites to Israel. Sharabi Y, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S29–30
A randomized study of quality of life during multiple risk factor intervention in treated hypertensive men at high cardiovascular risk. Agewall S, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1471–7
Lack of influence of menopause on blood pressure and cardiovascular risk profile: a 16-year longitudinal study concerning a cohort of 568 women. Casiglia E, et al.
J Hypertens 1996 Jun;14(6):729–36
Guidelines for antihypertensive therapy: problems with a strategy based on absolute cardiovascular risk. Simpson FO. **J Hypertens** 1996 Jun;14(6):683–9 (44 ref.)
Persistence of left ventricular hypertrophy is a stronger indicator of cardiovascular events than baseline left ventricular mass or systolic performance: 10 years of follow-up. Muiesan ML, et al. **J Hypertens Suppl** 1996 Dec; 14(5):S43–9
Abstracts of the Carl-Ludwig-Symposium. Leipzig, Germany, 26–28 September 1996. **J Mol Cell Cardiol** 1996 Oct;28(10):A279–94
Periodontal management of patients with cardiovascular diseases. American Academy of Periodontology.
J Periodontol 1996 Jun;67(6):627–35 (94 ref.)
Lipoprotein patterns, plaque, homocysteine, and hormones among ongoing cardiology studies [news] Gunby P.
JAMA 1996 Oct 9;276(14):1122–7
The 60th annual scientific meeting of the Japanese Circulation Society. March 19–21, 1996, Osaka, Japan. Abstracts. **Jpn Circ J** 1996 Jul;60(7):389–551
61st Annual scientific meeting of the Japanese Circulation Society. Tokyo, March 31–April 2, 1997. Abstracts.
Jpn Circ J 1997 Jul;61(7):543–644
Cellular sodium membrane transport and cardiovascular risk factors in non-insulin-dependent diabetes mellitus. Foyle WJ, et al. **Metabolism** 1996 Aug;45(8):961–5
The effects of hormone replacement therapy on carbohydrate metabolism and cardiovascular risk factors in surgically postmenopausal cynomolgus monkeys. Wagner JD, et al. **Metabolism** 1996 Oct;45(10):1254–62
Obstructive sleep apnoea and cardiovascular morbidity. Fletcher EC. **Monaldi Arch Chest Dis** 1996 Feb;51(1):77–80 (30 ref.)
Evolution of cardiologic consultation. Kuhn LA.
Mt Sinai J Med 1996 Jan;63(1):39–43
The safety of transdermal nicotine as an aid to smoking cessation in patients with cardiac disease. Joseph AM, et al. **N Engl J Med** 1996 Dec 12;335(24):1792–8
Cardiovascular disease among firefighters. Melius JM.
Occup Med 1995 Oct–Dec;10(4):821–7 (45 ref.)
A comparison of cardiac rate-pressure product and pressure-rate quotient with Holter monitoring in patients with hypertension and cardiovascular disease: a follow-up report. Campbell RL, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Aug;84(2):125–8
A guide to successfully recruiting patients for cardiovascular clinical trials. DeSantis P, et al. **Prog Cardiovasc Nurs** 1997 Summer;12(3):24–31 (8 ref.)
Southern Africa Cardiac Society 20th Biennial Congress. 6–9 October 1996. Abstracts. **S Afr Med J** 1996 Oct;86(6 Suppl):4–32
The XVIIth European Heart Congress. Amsterdam, The Netherlands, 20–24 August 1995. Disler LJ.
S Afr Med J 1996 Jun;86 Suppl 3:C165–70
XVIth Nordic congress of cardiology. Tampere, Finland, June 11–13, 1997. Abstracts. **Scand Cardiovasc J Suppl** 1997; 45:9–40
Annual joint meeting of the Swiss Society of Cardiology and the Swiss Society of Thoracic and Cardiovascular Surgery. Lausanne, 17–19 April 1997. Abstracts.
Schweiz Med Wochenschr Suppl 1997;85:3S–60S **(Eng, Fre, Ger)**
[How unscientific can one be? (letter; comment)] Astrup AV, et al. **Ugeskr Laeger** 1997 Aug 18;159(34):5112–3. Comment on: Ugeskr Laeger 1997 Apr 28;159(18):2719–21. **(Dan)**
[Annual meeting of Cardiology. Paris, May 30–31, 1996. Abstracts] **Ann Cardiol Angeiol (Paris)** 1996 Apr; 45(4):163–243 **(Fre)**
[Annual International Meeting of Cardiology. Paris, France, 29–30 May 1997. Abstracts] **Ann Cardiol Angeiol (Paris)** 1997 Apr;46(4):195–281 **(Fre)**
[Tropical cardiovascular diseases. Proceedings of the 3rd Pharo and Laveran Hospital meeting. 6–7 September 1996] **Med Trop (Mars)** 1996;56(3 Suppl):1–72 **(Fre)**
[Annual meeting of the Swiss Society of Cardiology and annual meeting of The Swiss Society of Infection. Zurich, 21–23 March 1996. Abstracts]
Schweiz Med Wochenschr Suppl 1996;74 (Pt 2):3S–54S **(Fre)**
[WIT 97. The heart in the intensive care patient. Vienna, February 27–March 1, 1997. Proceedings and abstract]
Wien Klin Wochenschr Suppl 1997;1:1–66 **(Ger)**
[62nd Annual meeting of the German Association for Cardiology and Cardiovascular Research. Mannheim, 11–13 April 1996. Abstracts] **Z Kardiol** 1996;85 Suppl 2:1–331 **(Ger)**
[63rd Annual meeting of the German Society of Cardiology and Cardiovascular Research. Mannheim, 3–5 April 1997. Abstracts] **Z Kardiol** 1997;86 Suppl 2:A6–385 **(Ger)**
[28th Annual meeting of the German Society of Pediatric Cardiology. Leipzig, 5–8 October 1996. Abstracts]
Z Kardiol 1996 Sep;85(9):693–734 **(Ger)**
[Opening address at the 62nd Annual Meeting of the German Society of Cardiology–Cardiovascular Research, Mannheim, 11–13 April 1996] Lüderitz B. **Z Kardiol** 1996; 85 Suppl 6:1–4 **(Ger)**
[Address of the president on the occasion of the 62nd Annual Meeting of the German Society of Cardiology–Cardiovascular Research, Mannheim, 11–13 April 1996] Meyer J. **Z Kardiol** 1996;85 Suppl 6:5–10 **(Ger)**
[56th National Congress of the Italian Society of Cardiology. Rome, 12–15 December 1995. Abstracts] **Cardiologia** 1995 Dec;40(12 Suppl 2):1–138 **(Ita)**
[57th National Congress of the Italian Society of Cardiology. Rome, 10–13 December 1996. Abstracts] **Cardiologia** 1996 Dec;41 Suppl 5:7–155 **(Ita)**
[XXVIII National Congress of Cardiology, National Medical Hospital Cardiology Association. Firenze, 1–4 June 1997. Abstracts] **G Ital Cardiol** 1997;27 Suppl 1:3–140 **(Ita)**
[44th Scientific Session of the Japanese College of Cardiology. Tokyo, September 25–27, 1996. Abstracts]
J Cardiol 1996;28 Suppl 1:1–260 **(Jpn)**
[Proceedings of the 28th–34th meetings Tohoku Cardiography Study Group. 1992–1995. Japan. Abstracts]
J Cardiol 1996;27 Suppl 1:1–56 **(Jpn)**
[XVII Portuguese Congress of Cardiology. Vila Moura Algarve, 21–24 April 1996. Abstracts] **Rev Port Cardiol** 1996 Apr;15 Suppl 3:III1–136 **(Por)**

[XVIII Portuguese Congress of Cardiology. Porto, 20–23 April 1997. Abstracts] **Rev Port Cardiol** 1997 Apr;16 Suppl 1:I11–99 **(Por)**

[Surgical risk factors: cardiovascular diseases] Kuznetsov NA. **Khirurgiia (Mosk)** 1996;(6):93–8 (49 ref.) **(Rus)**

[Atherogenic factors in the diet of the Costa Rican population, 1991] Rodríguez Herrera N, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):27–32 (Eng. Abstr.) **(Spa)**

[XXXII National Congress of the Spanish Society of Cardiology. Tenerife, 28–31 October 1996. Abstracts] **Rev Esp Cardiol** 1996;49 Suppl 3:1–122 **(Spa)**

BLOOD

Cardiovascular risk factors in relation to the serum concentrations of copper and zinc: epidemiological study on children and adolescents in the Spanish province of Navarra. Elcarte López T, et al. **Acta Paediatr** 1997 Mar; 86(3):248–53

Trp oxidation by copper–ascorbate under physiological conditions. Moreaux V, et al. **Adv Exp Med Biol** 1996; 398:719–26

Is an elevated level of serum lipoprotein (a) a risk factor for cardiovascular disease in CAPD patients? Avram MM, et al. **Adv Perit Dial** 1996;12:266–71

Cardiovascular risk factors in diabetic patients undergoing continuous ambulatory peritoneal dialysis. Babazono T, et al. **Adv Perit Dial** 1996;12:120–5

Effects of dietary fatty acids on lipoproteins and cardiovascular disease risk: summary. Schaefer EJ. **Am J Clin Nutr** 1997 May;65(5 Suppl):1655S–1656S (3 ref.)

Metabolic control and prevalent cardiovascular disease in non–insulin–dependent diabetes mellitus (NIDDM): The NIDDM Patient Outcome Research Team. Meigs JB, et al. **Am J Med** 1997 Jan;102(1):38–47

Cigarette smoking and leukocyte subpopulations in men. Freedman DS, et al. **Ann Epidemiol** 1996 Jul;6(4):299–306

The role of socioeconomic status and serum fatty acids in the relationship between intake of animal foods and cardiovascular risk factors. Yeh LL, et al. **Ann Epidemiol** 1996 Jul;6(4):290–8

Relationship of C-reactive protein to risk of cardiovascular disease in the elderly. Results from the Cardiovascular Health Study and the Rural Health Promotion Project. Tracy RP, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1121–7

Aging of the vascular wall: serum concentration of elastin peptides and elastase inhibitors in relation to cardiovascular risk factors. The EVA study. Bizbiz L, et al. **Atherosclerosis** 1997 May;131(1):73–8

von Willebrand factor and soluble E-selectin in the prediction of cardiovascular disease progression in hyperlipidaemia. Blann AD, et al. **Atherosclerosis** 1997 Jul 25;132(2):151–6

Haemostatic parameters and vascular risk. Juhan-Vague I. **Atherosclerosis** 1996 Jul;124 Suppl:S49–55 (63 ref.)

Plasma fibrinogen concentration in a Chinese population. Ko GT, et al. **Atherosclerosis** 1997 Jun;131(2):211–7

Serum bilirubin distribution and its relation to cardiovascular risk in children and young adults. Madhavan M, et al. **Atherosclerosis** 1997 May;131(1):107–13

The role of insulin in age-related sex differences of cardiovascular risk profile and morbidity. Willeit J, et al. **Atherosclerosis** 1997 Apr;130(1–2):183–9

Association between plasma total homocysteine and parental history of cardiovascular disease in children with familial hypercholesterolemia. Tonstad S, et al. **Circulation** 1997 Sep 16;96(6):1803–8

Clinical implications of a sandwich enzyme immunoassay for big endothelin-1 [editorial; comment] Mathew V, et al. **Clin Chem** 1997 Jan;43(1):9–10. Comment on: Clin Chem 1997 Jan;43(1):64–70.

Effects of troglitazone on insulin action and cardiovascular risk factors in patients with non–insulin–dependent diabetes. Sironi AM, et al. **Clin Pharmacol Ther** 1997 Aug; 62(2):194–202

Serum insulin and lipoprotein(a) concentrations. The Jichi Medical School Cohort Study [see comments] Inoue K, et al. **Diabetes Care** 1997 Aug;20(8):1242–7. Comment in: Diabetes Care 1997 Aug;20(8):1225–7.

Determinants of lipoprotein(a) levels in a middle-aged working population. Braeckman L, et al. **Eur Heart J** 1996 Dec;17(12):1808–13

Relationship between fasting insulin and cardiovascular risk factors is already present in young men: the Verona Young Men Atherosclerosis Risk Factors Study. Bonora E, et al. **Eur J Clin Invest** 1997 Mar;27(3):248–54

Serum calcium, magnesium, copper and zinc and risk of cardiovascular death. Reunanen A, et al. **Eur J Clin Nutr** 1996 Jul;50(7):431–7

Plasma factor VIIa: measurement and potential clinical significance. Morrissey JH. **Haemostasis** 1996;26 Suppl 1:66–71 (50 ref.)

Relationship of uric acid concentration to cardiovascular risk factors in young men. Role of obesity and central fat distribution. The Verona Young Men Atherosclerosis Risk Factors Study. Bonora E, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):975–80

Elevated fasting plasma insulin in a general aged population: an innocent companion of cardiovascular diseases [see comments] Lindberg O, et al. **J Am Geriatr Soc** 1997 Apr; 45(4):407–12. Comment in: J Am Geriatr Soc 1997 Apr;45(4):524–5.

Plasma triglyceride level is a risk factor for cardiovascular disease independent of high-density lipoprotein cholesterol level: a meta-analysis of population-based prospective studies. Hokanson JE, et al. **J Cardiovasc Risk** 1996 Apr; 3(2):213–9

Serum bilirubin and cardiovascular risk factors in a Chinese population. Ko GT, et al. **J Cardiovasc Risk** 1996 Oct; 3(5):459–63

Dehydroepiandrosterone, dehydroepiandrosterone sulphate and cardiovascular disease. Khaw KT. **J Endocrinol** 1996 Sep;150 Suppl:S149–53 (23 ref.)

The cholesterol century [editorial; comment] Erkelens DW. **Neth J Med** 1997 Jul;51(1):v–vii (15 ref.). Comment on: Neth J Med 1997 Jul;51(1):1–9. Comment on: Neth J Med 1997 Jul;51(1):10–5. Comment on: Neth J Med 1997 Jul;51(1):16–27.

Plasma homocysteine, a risk factor for cardiovascular disease, is lowered by physiological doses of folic acid. Ward M, et al. **QJM** 1997 Aug;90(8):519–24

Cardiovascular disease and Lp(a) in the adult population and in the elderly: the Brisighella study. Nascetti S, et al. **Riv Eur Sci Med Farmacol** 1996 Sep–Dec;18(5–6):205–12

PAI-1, obesity, insulin resistance and risk of cardiovascular events. Juhan-Vague I, et al. **Thromb Haemost** 1997 Jul; 78(1):656–60 (56 ref.)

[Cardiovascular disease-related serum lipid parameters in a Hungarian subpopulation] Szépvölgyi J, et al. **Orv Hetil** 1997 Aug 10;138(32):2005–8 (33 ref.) (Eng. Abstr.) **(Hun)**

[Plasma apolipoproteins: their role in cardiovascular diseases and usefulness of their blood concentration determination. Committee of the Study of Apolipoproteins, Italian Heart Foundation] **Cardiologia** 1997 Feb;42 Suppl 1:1–39 (279 ref.) **(Ita)**

[The usefulness of determining basal insulinemia as a cardiovascular risk factor (letter; comment)] Arrieta FJ, et al. **Aten Primaria** 1997 Jul-Aug;20(3):157–8. Comment on: Aten Primaria 1996 Dec;18(10):558–62. **(Spa)**

CHEMICALLY INDUCED

Exposures and health effects: an evaluation of workers at a sodium azide production plant. Trout D, et al. **Am J Ind Med** 1996 Sep;30(3):343–50

Lifetime cocaine use and cardiovascular characteristics among young adults: the CARDIA study. Braun BL, et al. **Am J Public Health** 1997 Apr;87(4):629–34

Do different brands of oral contraceptives differ in their effects on cardiovascular disease? Crook D. **Br J Obstet Gynaecol** 1997 May;104(5):516–20

Are psychotropic drugs at therapeutic levels a concern for cardiologists? Burggraf GW. **Can J Cardiol** 1997 Jan; 13(1):75–80 (55 ref.)

Blockade of ATP-dependent K+ channels in myocardium and coronary artery smooth muscle: a possible cause of increased cardiovascular mortality in sulfonylurea-treated patients [letter] Gasser R, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):87–9

Autonomic cardiac abnormalities in alcohol-dependent patients admitted to a psychiatric department. Rechlin T, et al. **Clin Auton Res** 1996 Apr;6(2):119–22

Systemic side effects of topical beta-adrenergic blockers. Stewart WC, et al. **Clin Cardiol** 1996 Sep;19(9):691–7 (82 ref.)

Estrogen and progestin components of oral contraceptives: relationship to vascular disease. Carr BR, et al. **Contraception** 1997 May;55(5):267–72 (36 ref.)

Effects of chronic cocaine use on physical health: a prospective study in a general population sample. Chen K, et al. **Drug Alcohol Depend** 1996 Dec 2;43(1–2):23–37

Serious cardiovascular side effects of large doses of anabolic steroids in weight lifters. Nieminen MS, et al. **Eur Heart J** 1996 Oct;17(10):1576–83

Cardiorespiratory problems with clozapine [letter; comment] Frankenburg FR, et al. **J Clin Psychiatry** 1996 Nov; 57(11):548–9. Comment on: J Clin Psychiatry 1995 May;56(5):180–5.

Vascular events during antihypertensive treatment. Madren EM. **J Fam Pract** 1996 Dec;43(6):534

Autonomic effects of selegiline: possible cardiovascular toxicity in Parkinson's disease. Churchyard A, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):228–34

Antidepressant drugs and the cardiovascular system: a comparison of tricylics and selective serotonin reuptake inhibitors and their relevance for the treatment of psychiatric patients with cardiovascular problems. Coupland N, et al. **J Psychopharmacol (Oxf)** 1997; 11(1):83–92 (117 ref.)

From the Centers for Disease Control and Prevention. Adverse events associated with ephedrine-containing products—Texas, December 1993–September 1995. **JAMA** 1996 Dec 4;276(21):1711–2

Comparison of the hemodynamic and hematologic toxicity of a protamine variant after reversal of low-molecular-weight heparin anticoagulation in a canine model. Hulin MS, et al. **Lab Anim Sci** 1997 Apr; 47(2):153–60

Effect of long-acting and short-acting calcium antagonists on cardiovascular outcomes in hypertensive patients [see comments] Alderman MH, et al. **Lancet** 1997 Mar 1; 349(9052):594–8. Comment in: Lancet 1997 Mar 1;349(9052):585–6.

Oral contraceptive use and coronary and cardiovascular risk. Burkman RT. **Med Sci Sports Exerc** 1996 Jan;28(1):11–2

Increased risk of cardiovascular disease with erythropoietin in chronic dialysis patients [letter; comment] Evans SJ. **Nephron** 1997;76(1):116; discussion 117. Comment on: Nephron 1996;72(1):30–6.

Combination oral contraceptives and cardiovascular disease. Darney PD. **Semin Reprod Endocrinol** 1996 Feb;14(1):51–61 (98 ref.)

[Complications of treatment by dialysis (editorial)] Leteif M, et al. **Presse Med** 1997 Mar 22;26(9):407–9 (Eng. Abstr.) **(Fre)**

[Cardiovascular toxic effects of drugs not used in cardiology] Iarussi D, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):105–11 **(Ita)**

CLASSIFICATION

Associations of hypertension and complications in non–insulin–dependent diabetes mellitus. Mehler PS, et al. **Am J Hypertens** 1997 Feb;10(2):152–61

Cardiovascular event classification in the very old: how accurate and how complete? [editorial; comment] Heckbert SR, et al. **Epidemiology** 1997 Sep;8(5):473–4. Comment on: Epidemiology 1997 Sep;8(5):495–500. Comment on: Epidemiology 1997 Sep;8(5):501–4.

COMPLICATIONS

An observational study of cardiovascular characteristics of long-term end-stage renal disease survivors. Owen WF, et al. **Am J Kidney Dis** 1996 Dec;28(6):931–6

Metabolic control and prevalent cardiovascular disease in non–insulin–dependent diabetes mellitus (NIDDM): The NIDDM Patient Outcome Research Team. Meigs JB, et al. **Am J Med** 1997 Jan;102(1):38–47

Serial measurements of serum creatine kinase are of most use in the exclusion of acute myocardial infarction in patients with a history of heart disease. Johnston JD, et al. **Ann Clin Biochem** 1996 Nov;33 (Pt 6):520–4

International variations in cardiovascular mortality associated with diabetes mellitus: the WHO Multinational Study of Vascular Disease in Diabetes. Fuller JH, et al. **Ann Med** 1996 Aug;28(4):319–22

The association of microalbuminuria and mortality in non–insulin–dependent diabetes mellitus. A systematic overview of the literature. Dinneen SF, et al. **Arch Intern Med** 1997 Jul 14;157(13):1413–8 (33 ref.)

Risk factors for cardiovascular disease in obese and normal school children: association of insulin with other cardiovascular risk factors. Mo-Suwan L, et al. **Biomed Environ Sci** 1996 Sep;9(2–3):269–75

Long-term instability of fasting plasma glucose, a novel predictor of cardiovascular mortality in elderly patients with non–insulin–dependent diabetes mellitus: the Verona Diabetes Study. Muggeo M, et al. **Circulation** 1997 Sep 16;96(6):1750–4

Clinical implications of the interaction between hypothyroidism and the cardiovascular system. Saadi H. **Cleve Clin J Med** 1997 Feb;64(2):93–8 (17 ref.)

Cardiovascular autonomic dysfunction in sickle cell anemia: a possible risk factor for sudden death? Romero Mestre JC, et al. **Clin Auton Res** 1997 Jun;7(3):121–5

Cardiovascular effects of commonly used ophthalmic medications. Shiuey Y, et al. **Clin Cardiol** 1996 Jan;19(1):5–8 (23 ref.)

Relationship between microalbuminuria, blood pressure and cardiovascular changes in essential hypertension. Cerasola G, et al. **Contrib Nephrol** 1996;119:130–34

Microalbuminuria is associated with a worse cardiovascular risk profile and target organ damage in essential hypertension. Pontremoli R, et al. **Contrib Nephrol** 1996; 119:115–20

Hyperlipidaemia and cardiovascular disease [editorial] Somers VK, et al. **Curr Opin Lipidol** 1996 Dec; 7(6):U193–201 (13 ref.)

Hyperlipidemia and cardiovascular disease [editorial] Stone NJ. **Curr Opin Lipidol** 1997 Feb;8(1):U8–10

Long-term influence of glycaemic control on cardiovascular risk in NIDDM. Laakso M. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S61–5 (19 ref.)

Cardiovascular sequelae of toxaemia of pregnancy. Hannaford P, et al. **Heart** 1997 Feb;77(2):154–8

A fatal case of Behçet's disease associated with multiple cardiovascular lesions. Roguin A, et al. **Int J Cardiol** 1997 May 23;59(3):267–73

Transient global amnesia: disease or syndrome? Moccia F, et al. **Ital J Neurol Sci** 1996 Jun;17(3):211–4

Sleep disturbance, psychosocial correlates, and cardiovascular disease in 5201 older adults: the Cardiovascular Health Study. Newman AB, et al. **J Am Geriatr Soc** 1997 Jan;45(1):1–7

Cardiovascular abnormalities in patients with X-linked hypophosphatemia. Nehgme R, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2450–4

Paraoxonase polymorphism Met-Leu54 is associated with modified serum concentrations of the enzyme. A possible link between the paraoxonase gene and increased risk of cardiovascular disease in diabetes. Garin MC, et al. **J Clin Invest** 1997 Jan 1;99(1):62–6

No one ever died from a weak ankle [editorial] Falkel JE. **J Orthop Sports Phys Ther** 1996 Aug;24(2):55–6

Effect of anaemia and cardiovascular disease on surgical

mortality and morbidity. Carson JL, et al. **Lancet** 1996 Oct 19;348(9034):1055–60

Lipids, estrogen status, and coronary heart disease risk in women. Denke MA. **Med Sci Sports Exerc** 1996 Jan; 28(1):13–4

Infarctlike lesions in the brain: prevalence and anatomic characteristics at MR imaging of the elderly—data from the Cardiovascular Health Study [see comments] Bryan RN, et al. **Radiology** 1997 Jan;202(1):47–54. Comment in: Radiology 1997 Jan;202(1):17–9.

MR imaging of the brain in epidemiologic research: the Cardiovascular Health Study [editorial; comment] Jack CR Jr. **Radiology** 1997 Jan;202(1):17–9. Comment on: Radiology 1997 Jan;202(1):33–9. Comment on: Radiology 1997 Jan;202(1):41–6. Comment on: Radiology 1997 Jan;202(1):47–54.

Clinically serious abnormalities found incidentally at MR imaging of the brain: data from the Cardiovascular Health Study [see comments] Yue NC, et al. **Radiology** 1997 Jan; 202(1):41–6. Comment in: Radiology 1997 Jan;202(1):17–9.

Cardiovascular involvement in relapsing polychondritis. Del Rosso A, et al. **Semin Arthritis Rheum** 1997 Jun;26(6):840–4 (26 ref.)

Renal failure in the vascular patient. Naude G, et al. **Semin Vasc Surg** 1996 Sep;9(3):266–74 (76 ref.)

[Serotonin syndrome: critical review of the literature] Baubet T, et al. **Rev Med Interne** 1997;18(5):380–7 (60 ref.) (Eng. Abstr.) **(Fre)**

[Glaucoma and risk factors. Comparative study of cardiovascular risk factors in primary open-angle glaucoma, normal-pressure glaucoma and simple ocular hypertension] Mermoud A. **Rev Med Suisse Romande** 1996 Jan;116(1):51–8 (Eng. Abstr.) **(Fre)**

[Complications of nasal CPAP therapy. Consequences for general practice] Fietze I, et al. **Med Klin** 1996 Dec 15; 91(12):758–65 (67 ref.) (Eng. Abstr.) **(Ger)**

[Hemodynamically-induced syncope] Brunner-La Rocca HP, et al. **Ther Umsch** 1997 Mar;54(3):127–34 (20 ref.) (Eng. Abstr.) **(Ger)**

[Preoperative preparation for oral surgery of patients with underlying systemic diseases] Tartaro GP, et al. **Minerva Stomatol** 1997 Jun;46(6):293–5 (Eng. Abstr.) **(Ita)**

[Osteogenesis imperfecta] Oku S. **Ryoikibetsu Shokogun Shirizu** 1996;(15):108–11 (18 ref.) **(Jpn)**

[The effect of co-existing diseases with cholelithiasis on the course and results of laparoscopic cholecystectomy] Modrzejewski A, et al. **Pol Tyg Lek** 1996 Apr; 51(14–18):200–2 (Eng. Abstr.) **(Pol)**

[Cardiac and vascular risk factors in surgery of cholecystitis] Panfilov BK. **Khirurgiia (Mosk)** 1996;(3):41–5 (Eng. Abstr.) **(Rus)**

[Environmental anomalies and their effect on the nature of the exacerbations of cardiovascular pathology] Iakovenko ES, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar-Apr;(2):8–10 (Eng. Abstr.) **(Rus)**

[Cardiovascular diseases and depressions] Lapin IP, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(3):71–5 (50 ref.) **(Rus)**

CONGENITAL see HEART DEFECTS, CONGENITAL

DIAGNOSIS

Major electrocardiographic abnormalities among American Indians aged 45 to 74 years (the Strong Heart Study). Oopik AJ, et al. **Am J Cardiol** 1996 Dec 15;78(12):1400–5

Syringaldazine. New attractive electron donor of prostaglandin H synthase. Kuznetsova YA, et al. **Appl Biochem Biotechnol** 1996 Oct-Nov;61(1–2):205–9

Use of ankle brachial pressure index to predict cardiovascular events and death: a cohort study [see comments] Leng GC, et al. **BMJ** 1996 Dec 7;313(7070):1440–4. Comment in: ACP J Club 1997 May-jun;126(3):79.

Outer limits of the athlete's heart, the effect of gender, and relevance to the differential diagnosis with primary cardiac diseases. Pelliccia A, et al. **Cardiol Clin** 1997 Aug; 15(3):381–96 (88 ref.)

The Society of Cardiac Angiography and Interventions 20th annual meeting. Scottsdale, Arizona, May 13–17, 1997. Abstracts. **Cathet Cardiovasc Diagn** 1997 May;41(1):98–115

Images in cardiovascular medicine. Correlative imaging of aortopulmonary window: demonstration with echocardiography, angiography, and MRI. Garver KA, et al. **Circulation** 1997 Aug 5;96(3):1036–7

Images in cardiovascular medicine. Constrictive pericarditis. Thel MC, et al. **Circulation** 1997 Aug 5;96(3):1034–5

What can we learn from exercise testing beyond the detection of myocardial ischemia? Weber KT. **Clin Cardiol** 1997 Aug; 20(8):684–96 (37 ref.)

Approach to the patient with unexplained chest pain. Katz PO, et al. **Compr Ther** 1997 Apr;23(4):249–53 (21 ref.)

Screening for cardiovascular disease in dialysis patients. Murphy SW, et al. **Curr Opin Nephrol Hypertens** 1996 Nov; 5(6):532–40 (76 ref.)

A strategy for arterial risk assessment and management in type 2 (non-insulin-dependent) diabetes mellitus. European Arterial Risk Policy Group on behalf of the International Diabetes Federation European Region. **Diabet Med** 1997 Jul;14(7):611–21 (73 ref.)

Diagnosis of cardiovascular autonomic neuropathy in diabetes. Spallone V, et al. **Diabetes** 1997 Sep;46 Suppl 2:S67–76

Stress echocardiography: a well-established diagnostic tool. Proceedings of a symposium. Wuppertal, Germany, 5–6 June 1996. **Eur Heart J** 1997 Jun;18 Suppl D:D1–137

Transoesophageal stress echocardiography. Flachskampf FA, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D37–42 (19 ref.)

Stress echocardiography: new techniques. Leischik R, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D49–56 (53 ref.)

QT interval as a cardiac risk factor in a middle aged population. Karjalainen J, et al. **Heart** 1997 Jun;77(6):543–8

Quantitative analysis of cardiovascular MR images. van der Geest RJ, et al. **Int J Card Imaging** 1997 Jun;13(3):247–58 (39 ref.)

Refractory depression, cardiovascular risk factors, and leukoariosis [letter; comment] D'Mello DA, et al. **J Clin Psychiatry** 1997 Jun;58(6):274. Comment on: J Clin Psychiatry 1995 Apr;56(4):128–36.

Cardiovascular applications of magnetic resonance flow and velocity measurements. Szolar DH, et al. **J Magn Reson Imaging** 1996 Jan-Feb;6(1):78–89 (95 ref.)

Where are the exercise testing guidelines for people with disabilities? [letter] Greenhaus A. **J Orthop Sports Phys Ther** 1997 May;25(5):349–50

Society of Cardiovascular and Interventional Radiology (SCVIR) 22nd annual scientific meeting Washington, D.C., March 8–13, 1997. Abstracts. **J Vasc Interv Radiol** 1997 Jan-Feb;8(1 Pt 2):11–305

Bronchospasm/desaturation under anaesthesia: are they signs of pneumothorax? Zubair NA, et al. **JPMA J Pak Med Assoc** 1997 Jun;47(6):174–6

Cardiovascular MR imaging of children. Hernandez RJ. **Magn Reson Imaging Clin N Am** 1996 Nov;4(4):615–36 (49 ref.)

Pediatric cardiovascular assessment and referral in the primary care setting. Moody LY. **Nurse Pract** 1997 Jan; 22(1):120, 123–6, 128–9, passim

Magnetic resonance imaging of the cardiovascular system and airway. Berlin SC. **Pediatr Clin North Am** 1997 Jun; 44(3):659–79 (71 ref.)

Pulmonary vascular disorders masquerading as interstitial lung disease. Sondheimer HM, et al. **Pediatr Pulmonol** 1995 Nov;20(5):284–8

Cardiovascular evaluation of the athlete. Issues regarding performance, screening and sudden cardiac death. Franklin BA, et al. **Sports Med** 1997 Aug;24(2):97–119 (139 ref.)

[Cardiovascular diseases: toward an optimal use of clinical biological laboratories] Boeynaems JM, et al. **Rev Med Brux** 1996 Sep;17(4):308–12 (Eng. Abstr.) **(Fre)**

[Spiroergometry. Indications, methods, relevance] Breuer HW. **Dtsch Med Wochenschr** 1997 Apr 4;122(14):447–9 (20 ref.) **(Ger)**

[Contrast medium magnetic resonance angiography: a revolution in vascular diagnosis? (editorial)] Bongartz G. **Radiologe** 1997 Jul;37(7):491–2 **(Ger)**

[Contrast medium enhanced magnetic resonance angiography. Theory, technique and practical implementation] Stehling MK, et al. **Radiologe** 1997 Jul; 37(7):501–7 (Eng. Abstr.) **(Ger)**

[The utilization of dry chemistry methods in a campaign to identify risk factor of cardiovascular diseases] Marotta G, et al. **Epidemiol Prev** 1994 Dec;18(61):230–6 (Eng. Abstr.) **(Ita)**

[Cardiological protocols on determining eligibility for competitive sports 1995. Organizational Cardiological Committee on Eligibility for Sports (COCIS)] **G Ital Cardiol** 1996 Aug;26(8):949–83 **(Ita)**

[Preoperative evaluation of aged patients] Meguro K, et al. **Masui** 1996 Dec;45 Suppl:S143–6 (5 ref.) **(Jpn)**

[Corrected QT interval and diabetic neuropathy of the cardiovascular system] Klupa T, et al. **Przegl Lek** 1995; 52(12):583–7 (Eng. Abstr.) **(Pol)**

[Use of the ergometric test at supporting clinical decision] Mastrocolla LE, et al. **Arq Bras Cardiol** 1996 Jul; 67(1):69–75 **(Por)**

[Making of the clinicophysiological diagnosis within the system of medical flight certification] Karlov VN. **Aviakosm Ekolog Med** 1996;30(6):52–7 (Eng. Abstr.) **(Rus)**

[Possibilities of the use of static ergometric functional test in clinical practice] Vartbaronov RA, et al. **Aviakosm Ekolog Med** 1996;30(2):44–8 (Eng. Abstr.) **(Rus)**

[Ca-19-9, carcinoembryonic antigen, and alpha-fetoprotein in the serum of nononcological patients and their clinical significance] Skvortsov SV, et al. **Biull Eksp Biol Med** 1997 May;123(5):566–9 **(Rus)**

[Current opportunities for the improvement of diagnostic processes in cardiovascular diseases during preadmission period] Bart BYa, et al. **Probl Sotsialnoi Gig Istor Med** 1995 May-Jun;(3):18–9 **(Rus)**

[The differential diagnostic characteristics of sarcoidosis of the intrathoracic lymph nodes and of cardiovascular diseases] Kostina ZI, et al. **Probl Tuberk** 1996;(4):18–20 (Eng. Abstr.) **(Rus)**

[The role of cardiovascular diseases among the reasons for the transfer ahead of schedule of specialists working in the tropics] Fandeev AV, et al. **Ter Arkh** 1996;68(11):59–62 (Eng. Abstr.) **(Rus)**

[Macro creatine kinase type 1 as a cause of increase of CF-MB isoenzyme. Apropos of 7 cases] Rosa-Jiménez F, et al. **Rev Esp Cardiol** 1997 Mar;50(3):166–72 (Eng. Abstr.) **(Spa)**

[Cardiology of yesterday, today and tomorrow] Beregovich J. **Rev Med Chil** 1996 Mar;124(3):367–70 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Long-term effect of nutritional counseling: a study in family medicine. Bakx JC, et al. **Am J Clin Nutr** 1997 Jun;65(6 Suppl):1946S–1950S

Improved quality of life in patients with generalized cardiovascular metabolic disease on a prepared diet. Hatton DC, et al. **Am J Clin Nutr** 1996 Dec;64(6):935–43

Beyond calories: other benefits of macronutrient substitutes. Effects on chronic disease. Hannah JS. **Ann N Y Acad Sci** 1997 May 23;819:221–8 (46 ref.)

Nutritional management of cardiovascular risk factors. A randomized clinical trial. McCarron DA, et al. **Arch Intern Med** 1997 Jan 27;157(2):169–77

Nutrition and therapeutics. Samman S, et al. **Curr Opin Lipidol** 1996 Oct;7(5):U141–4

Recent nutritional approaches to the prevention and therapy of cardiovascular disease. Kendler BS. **Prog Cardiovasc Nurs** 1997 Summer;12(3):3–23 (200 ref.)

[Feasibility of correcting lipid metabolism in patients with cardiovascular diseases using a balanced vegetarian diet] Medkova IL, et al. **Vopr Pitan** 1996;(2):29–32 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Opioid and nonopioid cardiovascular effects of dynorphins. Dumont M, et al. **Adv Pharmacol** 1997;37:1–33 (218 ref.)

The placebo effect in cardiovascular disease. Bienenfeld L, et al. **Am Heart J** 1996 Dec;132(6):1207–21 (79 ref.)

Selective and nonselective dopamine receptor agonists: an innovative approach to cardiovascular disease treatment. Frishman WH, et al. **Am Heart J** 1996 Oct;132(4):861–70 (53 ref.)

Recombinant growth hormone: a new cardiovascular drug therapy. Gomberg-Maitland M, et al. **Am Heart J** 1996 Dec;132(6):1244–62 (145 ref.)

Re-examining the clinical safety and roles of calcium antagonists in cardiovascular medicine. Conti CR. **Am J Cardiol** 1996 Nov 7;78(9A):13–8 (78 ref.)

Calcium antagonists and cardiovascular prognosis: a homogeneous group? Laragh JH, et al. **Am J Hypertens** 1996 Feb;9(2):99–109 (51 ref.)

Calcium antagonists in cardiovascular disease: a necessary controversy but an unnecessary panic [editorial; comment] Grossman E, et al. **Am J Med** 1997 Feb;102(2):147–9. Comment on: Am J Med 1997 Feb;102(2):150–7.

Aspirin in the treatment and prevention of cardiovascular disease. Hennekens CH. **Annu Rev Public Health** 1997; 18:37–49 (30 ref.)

The atherogenic role of triglycerides and small, dense low density lipoproteins: impact of ciprofibrate therapy. Chapman MJ, et al. **Atherosclerosis** 1996 Jul;124 Suppl:S21–8 (33 ref.)

Third generation calcium entry blockers [see comments] Toyo-Oka T, et al. **Blood Press** 1996 Jul;5(4):206–8 (8 ref.) . Comment in: Blood Press 1996 Sep;5(5):319. Comment in: Blood Press 1996 Nov;5(6):376–7.

Calcium-channel antagonists in cardiovascular disease. Holdright DR. **Br J Hosp Med** 1997 Jun 4–17;57(11):552–6 (23 ref.)

A position paper on drug-pricing strategies for prescription pharmaceuticals in Canada. Canadian Cardiovascular Society [see comments] **Can J Cardiol** 1997 Jan;13(1):33–45 . Comment in: Can J Cardiol 1997 Jan;13(1):31–2. Comment in: Can J Cardiol 1997 Jul;13(7):689–90. **(Eng, Fre)**

Impact of medical interventions on quality of life in cardiovascular disease: a consensus viewpoint. Arnold JM, et al. **Can J Cardiol** 1997 Mar;13(3):235–6 (08 ref.)

Reference-based pricing of prescription drugs [editorial; comment] [see comments] McLaughlin PR. **Can J Cardiol** 1997 Jan;13(1):31–2. Comment on: Can J Cardiol 1997 Jan;13(1):33–45. Comment on: Can J Cardiol 1997 Jan;13(1):46–51. Comment in: Can J Cardiol 1997 Jul;13(7):689–90.

Omega-3 fatty acids in the prevention-management of cardiovascular disease. Simopoulos AP. **Can J Physiol Pharmacol** 1997 Mar;75(3):234–9 (50 ref.)

Case-control studies of cardiovascular medications as risk factors for clinically diagnosed depressive disorders in a hospitalized population. Patten SB, et al. **Can J Psychiatry** 1996 Sep;41(7):469–76

7th International Symposium on Cardiovascular Pharmacotherapy. Jerusalem, Israel, June 1–5, 1997. Abstracts. **Cardiovasc Drugs Ther** 1997 Jun;11 Suppl 2:315–421

Cardiovascular pharmacotherapy--from prevention to treatment. Proceedings of a symposium. Santiago, Chile. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:197–303

Should calcium antagonists be first-line agents in the treatment of cardiovascular disease? The public health perspective. Furberg CD, et al. **Cardiovasc Drugs Ther** 1996 Sep;10(4):463–6

Alternatives to mega-trials in cardiovascular disease. Hampton JR. **Cardiovasc Drugs Ther** 1997 Jan;10(6):759–65 (34 ref.)

Changes in treatment during and after hospitalization in patients taking drugs for cardiovascular diseases [letter]

Katz E, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):189–92

Calcium channel antagonists should be among the first-line drugs in the management of cardiovascular disease. Opie LH. **Cardiovasc Drugs Ther** 1996 Sep;10(4):455–61 (37 ref.)

Pharmacology of carvedilol: rationale for use in hypertension, coronary artery disease, and congestive heart failure. Ruffolo RR Jr, et al. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:247–56 (77 ref.)

Renin inhibitors: cardiovascular drugs of the future? Wood JM, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):309–12 (31 ref.)

Effects of platelet glycoprotein IIb/IIIa blockade with tirofiban on adverse cardiac events in patients with unstable angina or acute myocardial infarction undergoing coronary angioplasty. The RESTORE Investigators. Randomized Efficacy Study of Tirofiban for Outcomes and REstenosis. **Circulation** 1997 Sep 2;96(5):1445–53

Sulfonylurea KATP blockade in type II diabetes and preconditioning in cardiovascular disease. Time for reconsideration. Engler RL, et al. **Circulation** 1996 Nov 1;94(9):2297–301 (66 ref.)

Guidelines for use of anticoagulants [letter] Horton J, et al. **Circulation** 1997 Sep 16;96(6):2099

Phytochemicals and cardiovascular disease. A statement for healthcare professionals from the American Heart Association. Howard BV, et al. **Circulation** 1997 Jun 3; 95(11):2591–3 (25 ref.)

Reversing endothelial dysfunction with ACE inhibitors. A new trend [editorial; comment] Rajagopalan S, et al. **Circulation** 1996 Aug 1;94(3):240–3. Comment on: Circulation 1996 Aug 1;94(3):258–65.

Second International Symposium on Cardiovascular Drug Delivery [news] Welt FG, et al. **Circulation** 1997 Feb 18; 95(4):773–6

Is there a therapeutic future for "potassium channel openers"? [editorial] Lawson K. **Clin Sci (Colch)** 1996 Dec; 91(6):651–63 (111 ref.)

Direct thrombin inhibitors in cardiovascular disease. Catella-Lawson F. **Coron Artery Dis** 1997 Feb;8(2):105–11 (34 ref.)

Therapy and clinical trials. Seed M. **Curr Opin Lipidol** 1996 Oct;7(5):U168–72

What kind of cardiovascular alterations could be influenced positively by oral antidiabetic agents? Pogátsa G. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S27–31 (18 ref.)

Carvedilol. A reappraisal of its pharmacological properties and therapeutic use in cardiovascular disorders. Dunn CJ, et al. **Drugs** 1997 Jul;54(1):161–85 (179 ref.)

The clinical potential of endothelin receptor antagonists in cardiovascular medicine. Ferro CJ, et al. **Drugs** 1996 Jan; 51(1):12–27 (188 ref.)

Angiotensin II receptor antagonists. Potential in elderly patients with cardiovascular disease. Burrell LM, et al. **Drugs Aging** 1997 Jun;10(6):421–34 (65 ref.)

The unnecessary controversy [see comments] Furberg CD, et al. **Eur Heart J** 1996 Aug;17(8):1142–7 (45 ref.). Comment in: Eur Heart J 1997 Jan;18(1):166–7. Comment in: Eur Heart J 1997 Jan;18(1):167–8.

The renin-angiotensin system and the heart. Introduction [editorial] Ikram H. **Heart** 1996 Nov;76(3 Suppl 3):3–6

K+ channel opening: a new drug principle in cardiovascular medicine [see comments] Nielsen-Kudsk JE, et al. **Heart** 1996 Aug;76(2):109–16 (51 ref.). Comment in: Heart 1997 May;77(5):487.

Cost-benefit analysis--a prerequisite of a rational pharmacotherapy in cardiovascular diseases. Timely thrombolysis in the acute myocardial infarction. Barthel W, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):277–81 (19 ref.)

The effects of amrinone and glucagon on verapamil-induced cardiovascular toxicity in anaesthetized rats. Tuncok Y, et al. **Int J Exp Pathol** 1996 Oct;77(5):207–12

Angiotensin-converting enzyme inhibitors, angiotensin II receptor antagonists and calcium channel blocking agents: a review of potential benefits and possible adverse reactions. Moser M. **J Am Coll Cardiol** 1997 Jun; 29(7):1414–21 (46 ref.)

Bleeding risk of combined oral anticoagulant and antiplatelet therapy in cardiovascular disease. Verheugt FW. **J Cardiovasc Risk** 1996 Apr;3(2):229–32

The emerging role of ACE inhibitors in diabetes: from theory to therapeutic management. Yudkin JS. **J Diabetes Complications** 1996 May-Jun;10(3):129–32 (40 ref.)

Treatment and prevention of target organ damage. Padmavati S. **J Hum Hypertens** 1996 Feb;10 Suppl 1:S85–7 (10 ref.)

Impact of lipid and ACE inhibitor therapy on cardiovascular disease and metabolic abnormalities in the diabetic and hypertensive patient. Sowers JR. **J Hum Hypertens** 1997 Jan;11(1):9–16 (93 ref.)

Endothelial function as an end-point in interventional trials: concepts, methods and current data. Lüscher TF, et al. **J Hypertens Suppl** 1996 Sep;14(2):S111–9; discussion S119–21 (82 ref.)

Calcium channel antagonists revisited [editorial] Birbari AE. **J Med Liban** 1996;44(2):59

How safe are calcium channel antagonists [editorial] Birbari AE. **J Med Liban** 1995;43(3):120–1

Pharmacologic management of cardiovascular problems in women. Davis L, et al. **J Nurse Midwifery** 1997 May-Jun; 42(3):176–85 (22 ref.)

Pulse oximetry in newborn infants with birth weights of 620 to 4285 grams receiving dopamine and dobutamine. Sardesai S, et al. **J Perinatol** 1996 Jan-Feb;16(1):31–4

Potentially beneficial cardiovascular effects of melatonin administration in women. Cagnacci A, et al. **J Pineal Res** 1997 Jan;22(1):16–9

Cardiovascular receptors as drug targets. Eur omega Conferences' Cardiovascular receptors as drug targets. Institut Pasteur, Paris, France, 3–4 October 1996. Maack T. **Mol Med Today** 1997 Mar;3(3):101–2

A long-term follow-up study of cinnarizine- and flunarizine-induced parkinsonism. Negrotti A, et al. **Mov Disord** 1997 Jan;12(1):107–10

Oligonucleotide therapeutics--novel cardiovascular targets [news; comment] Isner JM. **Nat Med** 1997 Aug;3(8):834–5 . Comment on: Nat Med 1997 Aug;3(8):894–9. Comment on: Nat Med 1997 Aug;3(8):900–3.

New therapeutic agents marketed in 1995. Hussar DA. **Pa Med** 1996 Apr;99(4):43–6

Effects of treatment with pentoxifylline on the cardiovascular manifestations of group B streptococcal sepsis in the piglet. Del Moral T, et al. **Pediatr Res** 1996 Sep;40(3):469–74

Calcitonin gene-related peptide in the cardiovascular system: characterization of receptor populations and their (patho)physiological significance. Bell D, et al. **Pharmacol Rev** 1996 Jun;48(2):253–88 (302 ref.)

Absence of association between angiotensin I-converting enzyme (ACE) DD genotype and the frequency of ACE inhibitor therapy. Sigusch HH, et al. **Pharmazie** 1997 Jul; 52(7):565–6

Revisiting calcium channel blockers--from basic facts to clinical practice. **S Afr Med J** 1996 Jun;86 Suppl 3:C171–3

Potential uses of a new class of low-molecular-weight heparins in cardiovascular indications. Cohen M, et al. **Semin Thromb Hemost** 1996;22 Suppl 2:25–7 (22 ref.)

Pharmacology of the low-molecular-weight heparins. Fareed J, et al. **Semin Thromb Hemost** 1996;22 Suppl 2:13–8 (34 ref.)

Cardiopulmonary dysfunction during porcine endotoxin shock is effectively counteracted by the endothelin receptor antagonist bosentan. Wanecek M, et al. **Shock** 1997 May; 7(5):364–70

Chelation therapy for cardiovascular disease. Review and commentary [editorial] Lewin MR. **Tex Heart Inst J** 1997; 24(2):81–9 (66 ref.)

Scorpion envenoming and the cardiovascular system. Bawaskar HS, et al. **Trop Doct** 1997 Jan;27(1):6–9

Prazosin: scorpion envenoming and the cardiovascular system [editorial] Warrell DA. **Trop Doct** 1997 Jan;27(1):1

Oral anticoagulation alone or in combination with aspirin: risks and benefits. Hafner J, et al. **Vasa** 1996;25(1):1–12 (75 ref.)

[Antithrombotic treatment in cardiovascular diseases. A report by a working group of the Danish Cardiologic Society and the Danish Society of Clinical Chemistry] Godtfredsen J, et al. **Ugeskr Laeger** 1997;159 Suppl 5:1–28 **(Dan)**

[Progress in new cardiovascular treatment. Background discussion and interview in the Basel Roche Research Center (interview)] Keil U. **Fortschr Med** 1996 Feb 10; 114(4):39–40 **(Ger)**

[Fosinopril in the cardiovascular management of elderly patients] **Fortschr Med Suppl** 1996;175:1–8 **(Ger)**

[ACE-inhibitors: the indication spectrum grows wider] **Fortschr Med Suppl** 1996;178:1–10 **(Ger)**

[Beta blockers--1997 update] Stoschitzky K, et al. **Wien Klin Wochenschr** 1997 Apr 11;109(7):222–31 (71 ref.) (Eng. Abstr.) **(Ger)**

[Pathophysiological mechanisms of the renin-angiotensin system and its pharmacologic modification by ACE inhibitors or angiotensin II (type 1) receptor blockers in cardiovascular diseases] Huber K, et al. **Z Kardiol** 1997 Apr;86(4):239–50 (124 ref.) (Eng. Abstr.) **(Ger)**

[Calcium channel blockers scare] Zimlichman R. **Harefuah** 1997 Feb 2;132(3):223–5 (11 ref.) **(Heb)**

[New agents and challenges in the antithrombotic management of arterial diseases] Udvardy M, et al. **Orv Hetil** 1997 Jan 12;138(2):59–65 (44 ref.) (Eng. Abstr.) **(Hun)**

[Propafenone and flecainide in the therapy of ventricular arrhythmias] Paperini L, et al. **Minerva Cardioangiol** 1995 Oct;43(10):449–57 (32 ref.) (Eng. Abstr.) **(Ita)**

[Use of converting enzyme inhibitors in children. I. General remarks] Rokicki W, et al. **Wiad Lek** 1997;50(1-3):28–31 (20 ref.) (Eng. Abstr.) **(Pol)**

[Losartan, an angiotensin II receptor blocker: a new trend in cardiovascular chemotherapy] Krasnikova TL. **Klin Med (Mosk)** 1996;74(3):17–21 (38 ref.) **(Rus)**

[Selenium deficiency in patients with cardiovascular diseases and its correction with the drug "selena"] Lebedev PA. **Patol Fiziol Eksp Ter** 1996 Jul-Sep;(3):5–7 (Eng. Abstr.) **(Rus)**

[Blockade of endothelin receptors in cardiovascular diseases. A possible therapeutic alternative in the future] Pernow J, et al. **Lakartidningen** 1997 Mar 19;94(12):1069–73 (70 ref.) **(Swe)**

ECONOMICS

Racial and ethnic disparities in the use of cardiovascular procedures: associations with type of health insurance. Carlisle DM, et al. **Am J Public Health** 1997 Feb; 87(2):263–7

Economic impact of cardiovascular disease in Canada. Chan B, et al. **Can J Cardiol** 1996 Oct;12(10):1000–6

Conference on Socioeconomic Status and Cardiovascular Health and disease [news] Lenfant C. **Circulation** 1996 Nov 1;94(9):2041–4

Cost-benefit analysis--a prerequisite of a rational pharmacotherapy in cardiovascular diseases. Timely thrombolysis in the acute myocardial infarction. Barthel W, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):277–81 (19 ref.)

President's page: evaluation and management--the 51% solution [news] Lewis RP. **J Am Coll Cardiol** 1997 Jan; 29(1):219–20

The economic costs of cardiovascular disease mortality in California, 1991: implications for public health policy. Fox P, et al. **J Public Health Policy** 1996;17(4):442–59

Cardiovascular disease burden increases, NIH funding decreases. Breslow JL. **Nat Med** 1997 Jun;3(6):600–1

[The elderly cardiovascular patient in general practice. Health care costs--drugs--economic feasibility] Schmidt K. **Fortschr Med** 1996 Mar 10;114(7):43–4 **(Ger)**

[Prescribing practice for beta blockers at patient discharge to ambulatory care. A health care economic evaluation in a cardiology patient sample with special reference to drug budgeting] Weltermann B, et al. **Gesundheitswesen** 1997 Apr;59(4):258–61 (Eng. Abstr.) **(Ger)**

EMBRYOLOGY

Enigma of fetal/infant-origins hypothesis [comment] [see comments] Kramer MS, et al. **Lancet** 1996 Nov 9; 348(9037):1254–5. Comment on: Lancet 1996 Nov 9;348(9037):1259–63. Comment on: Lancet 1996 Nov 9;348(9037):1264–8. Comment on: Lancet 1996 Nov 9;348(9037):1269–73. Comment in: Lancet 1997 Jan 25;349(9047):286–7. Comment in: Lancet 1997 Jan 25;349(9047):287.

[Do cardiovascular diseases develop during the fetal period?] Olsen J, et al. **Ugeskr Laeger** 1997 Feb 24;159(9):1287 (Eng. Abstr.) **(Dan)**

ENZYMOLOGY

Loss of activity of plasma platelet-activating factor acetylhydrolase due to a novel Gln281-->Arg mutation. Yamada Y, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):772–5

Molecular biology and genetics of the angiotensin-I-converting enzyme: potential implications in cardiovascular diseases [see comments] Villard E, et al. **Cardiovasc Res** 1996 Dec;32(6):999–1007 (83 ref.). Comment in: Cardiovasc Res 1996 Dec;32(6):998.

Vascular damage without hypertension in transgenic rats expressing prorenin exclusively in the liver. Véniant M, et al. **J Clin Invest** 1996 Nov 1;98(9):1966–70

EPIDEMIOLOGY

Impaired glucose tolerance and its co-variates among 2079 non-diabetic elderly subjects. Ten-year mortality and morbidity in the CASTEL study. CArdiovascular STudy in the ELderly. Casiglia E, et al. **Acta Diabetol** 1996 Dec; 33(4):284–90

Risk factors for cardiovascular disease in individuals with diabetes. The Strong Heart Study. Howard BV. **Acta Diabetol** 1996 Sep;33(3):180–4

Cardiovascular risk indicators cluster in girls from families of low socio-economic status. Bergström E, et al. **Acta Paediatr** 1996 Sep;85(9):1083–90

Cardiovascular risk factors in relation to the serum concentrations of copper and zinc: epidemiological study on children and adolescents in the Spanish province of Navarra. Elcarte López T, et al. **Acta Paediatr** 1997 Mar; 86(3):248–53

Contributions of epidemiology to cardiovascular health [editorial] Blackburn H. **Am J Cardiol** 1996 Dec 1; 78(11):1267–72

Proceedings of the workshop on individual fatty acids and cardiovascular disease. Washington, DC, USA, March 30–31, 1995. **Am J Clin Nutr** 1997 May;65(5 Suppl):1577S–1701S

Visceral fat mass in childhood: a potential early marker for increased risk of cardiovascular disease [editorial; comment] Ellis KJ. **Am J Clin Nutr** 1997 Jun;65(6):1887–8 . Comment on: Am J Clin Nutr 1997 Jun;65(6):1703–8.

Design criteria for studies examining individual fatty acid effects on cardiovascular disease risk factors: human and animal studies. Kris-Etherton PM, et al. **Am J Clin Nutr** 1997 May;65(5 Suppl):1590S–1596S (25 ref.)

Coffee consumption and plasma total homocysteine: The Hordaland Homocysteine Study. Nygård O, et al. **Am J Clin Nutr** 1997 Jan;65(1):136–43

Epidemiology of thrombotic-hemostatic factors and their associations with cardiovascular disease. Pearson TA, et al. **Am J Clin Nutr** 1997 May;65(5 Suppl):1674S–1682S (104 ref.)

Effects of dietary fatty acids on lipoproteins and cardiovascular disease risk: summary. Schaefer EJ. **Am J Clin Nutr** 1997 May;65(5 Suppl):1655S–1656S (3 ref.)

Cardiovascular risk factors in children from the Belgian province of Luxembourg. The Belgian Luxembourg Child Study. Guillaume M, et al. **Am J Epidemiol** 1996 Nov 1; 144(9):867–80

The challenge of managing multiple cardiovascular risk

factors. Kaplan NM. **Am J Hypertens** 1997 Jul;10(7 Pt 2):167S–169S (7 ref.)

Relative risk and excess rate models in exposure–response analysis. Järvholm B. **Am J Ind Med** 1997 Apr; 31(4):399–402

Cardiovascular disease, selected cardiovascular disease risk factors, and age–related cataracts: the Beaver Dam Eye Study. Klein BE, et al. **Am J Ophthalmol** 1997 Mar; 123(3):338–46

Social status, social context, and arterial blood pressure. Dressler WW, et al. **Am J Phys Anthropol** 1997 Jan; 102(1):55–66

Cardiovascular risk factors in commercial flight aircrew officers compared with those in the general population. Ekstrand K, et al. **Angiology** 1996 Nov;47(11):1089–94

A survey of biases in the measurement of plasma lipid and lipoprotein concentrations in 32 lipid clinics in the UK. Crook D. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):82–3

Cardiovascular risk factors and hyperinsulinemia in elderly men: the Honolulu Heart Program. Burchfiel CM, et al. **Ann Epidemiol** 1996 Nov;6(6):490–7

Iron status and risk of cardiovascular disease. Corti MC, et al. **Ann Epidemiol** 1997 Jan;7(1):62–8 (48 ref.)

Trends in cardiovascular disease incidence and survival in the elderly. Haan MN, et al. **Ann Epidemiol** 1996 Jul; 6(4):348–56

Development of the multiple metabolic syndrome in the ARIC cohort: joint contribution of insulin, BMI, and WHR. Liese AD, et al. **Ann Epidemiol** 1997 Aug; 7(6):407–16

Patterns of comorbidity and mortality risk in blacks and whites. McGee D, et al. **Ann Epidemiol** 1996 Sep;6(5):381–5

The effect of nonresponse on prevalence estimates for a referent population: insights from a population–based cohort study. Atherosclerosis Risk in Communities (ARIC) Study Investigators. Shahar E, et al. **Ann Epidemiol** 1996 Nov;6(6):498–506

Television viewing and cardiovascular risk factors in young adults: the CARDIA study. Sidney S, et al. **Ann Epidemiol** 1996 Mar;6(2):154–9

Folate status is the major determinant of fasting total plasma homocysteine levels in maintenance dialysis patients. Bostom AG, et al. **Atherosclerosis** 1996 Jun; 123(1–2):193–202

The relation of apolipoprotein E polymorphism to multiple cardiovascular risk in children: the Bogalusa Heart Study. Srinivasan SR, et al. **Atherosclerosis** 1996 Jun; 123(1–2):33–42

Cardiovascular findings in self–reported healthy elderly. The Elite Seniors Study. Nair B, et al. **Aust N Z J Med** 1996 Jun;26(3):363–7

The menopause and the cardiovascular system. Beale CM, et al. **Baillieres Clin Obstet Gynaecol** 1996 Sep; 10(3):483–513 (149 ref.)

Blood pressure trend and cardiovascular events in nuns in a secluded order: a 30–year follow–up study. Timio M, et al. **Blood Press** 1997 Mar;6(2):81–7

Erythropoietin and cardiovascular risk. Allegra V, et al. **Blood Purif** 1995 Nov–Dec;13(6):301–13

Association of cardiovascular disease risk factors with socioeconomic position during childhood and during adulthood. Blane D, et al. **BMJ** 1996 Dec 7; 313(7070):1434–8

Epidemiology of coagulation factors, inhibitors and activation markers: The Third Glasgow MONICA Survey. II. Relationships to cardiovascular risk factors and prevalent cardiovascular disease. Woodward M, et al. **Br J Haematol** 1997 Jun;97(4):785–97

Cardiovascular and respiratory risk factors and symptoms among general practice patients with long–term mental illness. Kendrick T. **Br J Psychiatry** 1996 Dec;169(6):733–9

Hazards, risks, and threats of heart disease from the early stages to symptomatic coronary heart disease and cardiac failure. Kannel WB. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:199–212 (46 ref.)

Values of blood coagulating factors vary with ambient temperature: the Cardiovascular Disease Risk Factor Two–Township Study in Taiwan. Yeh CJ, et al. **Chin J Physiol** 1996;39(2):111–6

Understanding obesity in youth. A statement for healthcare professionals from the Committee on Atherosclerosis and Hypertension in the Young of the Council on Cardiovascular Disease in the Young and the Nutrition Committee, American Heart Association. Writing Group. Gidding SS, et al. **Circulation** 1996 Dec 15;94(12):3383–7

Genetic and environmental contributions to cardiovascular risk factors in Mexican Americans. The San Antonio Family Heart Study. Mitchell BD, et al. **Circulation** 1996 Nov 1;94(9):2159–70

Hypertension and borderline isolated systolic hypertension increase risks of cardiovascular disease and mortality in male physicians. O'Donnell CJ, et al. **Circulation** 1997 Mar 4;95(5):1132–7

Hypobetalipoproteinemia is associated with low levels of hemostatic risk factors in the Framingham offspring population. Welty FK, et al. **Circulation** 1997 Feb 18; 95(4):825–30

Risk factors for nephropathy and cardiovascular disease in diabetic Northern Minnesota American Indians. Hirata–Dulas CA, et al. **Clin Nephrol** 1996 Aug;46(2):92–8

Cardiovascular risk factors in Norwegian women using oral contraceptives: results from a cardiovascular health screening 1985–88. Graff–Iversen S, et al. **Contraception** 1996 Jun;53(6):337–44

Insulin and hypertensive cardiovascular disease. Kotchen TA, et al. **Curr Opin Cardiol** 1996 Sep;11(5):483–9 (80 ref.)

Obesity and cardiovascular disease. Rexrode KM, et al. **Curr Opin Cardiol** 1996 Sep;11(5):490–5 (51 ref.)

Risk factors for cardiovascular disease among women. Kuller LH, et al. **Curr Opin Lipidol** 1996 Aug;7(4):203–8 (81 ref.)

Are body mass or insulin resistance independently associated with cardiovascular risk factors in non–diabetic elderly Nigerians? Ezenwaka CE, et al. **Diabet Med** 1996 Oct; 13(10):874–81

Influence of smoking on the survival rate of diabetic patients requiring hemodialysis. Biesenbach G, et al. **Diabetes Care** 1996 Jun;19(6):625–8

The impact of socioeconomic status on cardiovascular risk factors in African–Americans at high risk for type II diabetes. Implications for syndrome X. Gaillard TR, et al. **Diabetes Care** 1997 May;20(5):745–52

Cardiovascular disease and its risk factors in IDDM in Europe. EURODIAB IDDM Complications Study Group [see comments] Koivisto VA, et al. **Diabetes Care** 1996 Jul;19(7):689–97. Comment in: Diabetes Care 1997 Apr;20(4):675–6.

Retinopathy predicts coronary heart disease events in NIDDM patients. Miettinen H, et al. **Diabetes Care** 1996 Dec;19(12):1445–8

Impaired glucose tolerance, diabetes, and cardiovascular disease risk factor profiles in the elderly. The Honolulu Heart Program. Rodriguez BL, et al. **Diabetes Care** 1996 Jun;19(6):587–90

Urinary albumin excretion as a predictor of diabetic retinopathy, neuropathy, and cardiovascular disease in NIDDM. Savage S, et al. **Diabetes Care** 1996 Nov; 19(11):1243–8

Increased plasma apolipoprotein (a) levels in IDDM patients with diabetic nephropathy. Tarnow L, et al. **Diabetes Care** 1996 Dec;19(12):1382–7

The association between retinopathy, nephropathy, cardiovascular disease and long–term metabolic control in type 1 diabetes mellitus: a 5 year follow–up study of 442 adult patients in routine care. Agardh CD, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):113–21

The prognostic value of albuminuria for the development of cardiovascular disease and retinopathy: a 5–year follow–up of 451 patients with type 2 diabetes mellitus. Agardh CD, et al. **Diabetes Res Clin Pract** 1996 Apr; 32(1–2):35–44

Increased cardiovascular morbidity and mortality in diabetes mellitus: identification of the high risk patient. Janka HU. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:85–8 (24 ref.)

High mortality from unidentified CVD in IDDM: time to start screening? Portuese EI, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):223–31

Pharmacologic modulation of autonomic tone: implications for the diabetic patient [see comments] Aronson D. **Diabetologia** 1997 Apr;40(4):476–81 (62 ref.). Comment in: Diabetologia 1997 Apr;40(4):482–4.

Macro–microangiopathy and endothelial dysfunction in NIDDM patients with and without diabetic nephropathy. Parving HH, et al. **Diabetologia** 1996 Dec;39(12):1590–7

Birth weight and cardiovascular risk factors in an epidemiological study. Vestbo E, et al. **Diabetologia** 1996 Dec;39(12):1598–602

Air pollution and hospital admissions for cardiovascular disease in Tucson [see comments] Schwartz J. **Epidemiology** 1997 Jul;8(4):371–7. Comment in: Epidemiology 1997 Jul;8(4):341–3.

Epidemiological evidence for beta–carotene in prevention of cancer and cardiovascular disease. van Poppel G. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S57–61 (33 ref.)

New and classical risk factors--the Münster heart study (PROCAM). Assmann G, et al. **Eur J Med Res** 1997 Jun 16;2(6):237–42

Heritability of plasma leptin in a population sample of African–American families. Rotimi C, et al. **Genet Epidemiol** 1997;14(3):255–63

Hemorheological profile in patients with cardiovascular risk factors. Vayá A, et al. **Haemostasis** 1996 Oct;26 Suppl 4:166–70

Insulin resistance syndrome and Lewis phenotype in healthy men and women. Petit JM, et al. **Horm Metab Res** 1997 Apr;29(4):193–5

Do potassium deficient diets and K+ removal by dialysis contribute to the cardiovascular morbidity and mortality of patients with end stage renal disease? [editorial] Dolson GM. **Int J Artif Organs** 1997 Mar;20(3):134–5 (15 ref.)

How to do a simple epidemiological study. II. Practice. Bowker TJ. **Int J Cardiol** 1996 Dec 13;57(3):197–205 (22 ref.)

Effects of recruitment strategy on response rates and risk factor profile in two cardiovascular surveys. Eastwood BJ, et al. **Int J Epidemiol** 1996 Aug;25(4):763–9

The association of job strain and health behaviours in men and women. Hellerstedt WL, et al. **Int J Epidemiol** 1997 Jun;26(3):575–83

Serum uric acid and its correlates in Chinese adult populations, urban and rural, of Beijing. The PRC–USA Collaborative Study in Cardiovascular and Cardiopulmonary Epidemiology. Li Y, et al. **Int J Epidemiol** 1997 Apr;26(2):288–96

Haemostatic and other cardiovascular risk factors, and socioeconomic status among middle–aged Finnish men and women. Myllykangas M, et al. **Int J Epidemiol** 1995 Dec; 24(6):1110–6

Hormone replacement therapy and cardiovascular disease. Gupta S, et al. **Int J Gynaecol Obstet** 1996 Feb;52(2):119–25 (50 ref.)

Regression to the mean [letter; comment] Conroy RM. **Int J Obes Relat Metab Disord** 1996 Dec;20(12):1133. Comment on: Int J Obes Relat Metab Disord 1996 Jan;20(1):7–14.

The beneficial effects of modest weight loss on cardiovascular risk factors. Van Gaal LF, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21 Suppl 1:S5–9 (28 ref.)

System for analysing sickness absenteeism in Poland. Indulski JA, et al. **Int J Occup Med Environ Health** 1997; 10(2):159–65

Influence of the number of meals taken per day on cardiovascular risk factors and the energy and nutrient intakes of a group of elderly people. Redondo MR, et al. **Int J Vitam Nutr Res** 1997;67(3):176–82

Diet and disease—the Israeli paradox: possible dangers of a high omega–6 polyunsaturated fatty acid diet. Yam D, et al. **Isr J Med Sci** 1996 Nov;32(11):1134–43 (135 ref.)

Associations between lifestyle and cardiovascular risk factors in 18–year–old Australians. Milligan RA, et al. **J Adolesc Health** 1997 Sep;21(3):186–95

Earthquake–induced potentiation of acute risk factors in hypertensive elderly patients: possible triggering of cardiovascular events after a major earthquake. Kario K, et al. **J Am Coll Cardiol** 1997 Apr;29(5):926–33

Cardiovascular health risks related to overweight. Ernst ND, et al. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S47–51 (18 ref.)

Dietary fat and chronic diseases: epidemiologic overview. Kuller LH. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S9–15 (84 ref.)

Hypoalbuminemia, cardiac morbidity, and mortality in end–stage renal disease. Foley RN, et al. **J Am Soc Nephrol** 1996 May;7(5):728–36

Relationship between smoking status and cardiovascular disease risk factors in young adult males in Taiwan. Chu NF, et al. **J Cardiovasc Risk** 1996 Apr;3(2):205–8

Inter–relationships of plasma fibrinogen, low–density lipoprotein cholesterol, cigarette smoking and the prevalence of cardiovascular disease. Fowkes FG, et al. **J Cardiovasc Risk** 1996 Jun;3(3):307–11

Environmental magnesium deficiency as a cardiovascular risk factor. Rylander R. **J Cardiovasc Risk** 1996 Feb;3(1):4–10 (48 ref.)

Cardiovascular morbidity and mortality among hypertensive patients in general practice: the evaluation of long–term systematic management. Harms LM, et al. **J Clin Epidemiol** 1997 Jul;50(7):779–86

The prediabetic problem: development of non–insulin–dependent diabetes mellitus and related abnormalities. Haffner SM. **J Diabetes Complications** 1997 Mar–Apr;11(2):69–76 (106 ref.)

Changes in cardiovascular disease risk factors in three Japanese national surveys 1971–1990. Sakata K, et al. **J Epidemiol** 1996 Jun;6(2):93–107

Therapeutic implications of the epidemiology and timing of myocardial infarction and other cardiovascular diseases. Flack JM, et al. **J Hum Hypertens** 1997 Jan;11(1):23–8 (34 ref.)

Hyperinsulinemia and clustering of cardiovascular risk factors in middle–aged hypertensive Finnish men and women. Vanhala MJ, et al. **J Hypertens** 1997 May; 15(5):475–81

Socio–economic factors in cardiovascular disease. Marmot MG. **J Hypertens Suppl** 1996 Dec;14(5):S201–5 (12 ref.)

Negative association between reported life events and cardiovascular disease risk factors in employed men: the CORDIS Study. Cardiovascular Occupational Risk Factors Determination in Israel. Melamed S, et al. **J Psychosom Res** 1997 Sep;43(3):247–58

Parity, postmenopausal estrogen use, and cardiovascular disease risk factors in American Indian women: the Strong Heart Study. Cowan LD, et al. **J Womens Health** 1997 Aug;6(4):441–9

The epidemiology of cardiovascular disease in type 2 diabetes mellitus: how sweet it is ... or is it? Nathan DM, et al. **Lancet** 1997 Jul;350 Suppl 1:SI4–9 (58 ref.)

Influence of fathers' social class on cardiovascular disease in middle–aged men [see comments] Wannamethee SG, et al. **Lancet** 1996 Nov 9;348(9037):1259–63. Comment in: Lancet 1996 Nov 9;348(9037):1254–5. Comment in: Lancet 1997 Jan 25;349(9047):284–5.

Preventive coronary interventions for women. Wenger NK. **Med Sci Sports Exerc** 1996 Jan;28(1):3–6

Cardiological database management system as a mediator to clinical decision support. Pappas C, et al. **Methods Inf Med** 1996 Mar;35(1):52–8

Prevalence of cardiovascular disease risk–factor clustering among persons aged > or = 45 years--Louisiana, 1991–1995. **MMWR Morb Mortal Wkly Rep** 1997 Jun 27; 46(25):585–8

Amlodipine in chronic heart failure [letter; comment] Bobbio M. **N Engl J Med** 1997 Apr 3;336(14):1023; discussion 1024 . Comment on: N Engl J Med 1996 Oct 10;335(15):1107–14.

The epidemiology of cardiovascular disease in black Americans [editorial; comment] [see comments] Gillum RF.

N Engl J Med 1996 Nov 21;335(21):1597–9. Comment on: N Engl J Med 1996 Nov 21;335(21):1545–51. Comment on: N Engl J Med 1996 Nov 21;335(21):1552–8. Comment in: N Engl J Med 1997 May 1;336(18):1321; discussion 1321–2.

The epidemic of cardiovascular disease in Eastern Europe [letter] Ginter E. **N Engl J Med** 1997 Jun 26;336(26):1915–6

Will an increased dietary folate intake reduce the incidence of cardiovascular disease? Ubbink JB, et al. **Nutr Rev** 1996 Jul;54(7):213–6 (20 ref.)

Daily time series for cardiovascular hospital admissions and previous day's air pollution in London, UK. Poloniecki JD, et al. **Occup Environ Med** 1997 Aug;54(8):535–40

Comparison of eight and 12 hour shifts: impacts on health, wellbeing, and alertness during the shift. Tucker P, et al. **Occup Environ Med** 1996 Nov;53(11):767–72

Prenatal and postnatal factors in predicting later blood pressure among children: cardiovascular risk in young Finns. Taittonen L, et al. **Pediatr Res** 1996 Oct;40(4):627–32

Epidemiology of low total plasma cholesterol concentration among young adults: the CARDIA study. Coronary Artery Risk Development in Young Adults. Iribarren C, et al. **Prev Med** 1997 Jul–Aug;26(4):495–507

Trends in cardiovascular risk factors (1984–1993) in a Swiss region: results of three population surveys. Wietlisbach V, et al. **Prev Med** 1997 Jul–Aug;26(4):523–33

Cardiovascular diseases as a growing health problem in developing countries: the role of nutrition in the epidemiologic transition. Pearson TA. **Public Health Rev** 1996;24(2):131–46 (29 ref.)

A Romanian contribution to the epidemiology and prevention of cardiovascular diseases. Steinbach M. **Rom J Intern Med** 1996 Jan–Jun;34(1–2):137–48 (108 ref.)

Metabolic aspects of polycystic ovary syndrome. Wild RA. **Semin Reprod Endocrinol** 1997 May;15(2):105–10 (26 ref.)

Hypertension-related mortality and morbidity in the southeast. Lackland DT, et al. **South Med J** 1997 Feb; 90(2):191–8

Water hardness and cardiovascular death rates in Tennessee. Erb BD Sr. **Tenn Med** 1997 Aug;90(8):314–6

Menopause and risk of cardiovascular disease. Gensini GF, et al. **Thromb Res** 1996 Oct 1;84(1):1–19 (121 ref.)

Does the choice of primary immunosuppression influence the prevalence of cardiovascular risk factors after liver transplantation? Guckelberger O, et al. **Transplant Proc** 1996 Dec;28(6):3173–4

Integrated community-based screening for cardiovascular diseases of childhood. Thakur JS, et al. **World Health Forum** 1997;18(1):24–7

[Cardiovascular diseases and their evolution in developing countries] Bertrand E. **Med Trop (Mars)** 1996;56(3 Suppl):6–7 (20 ref.) **(Fre)**

[20 years of cardiovascular epidemiology. The epidemiologist's viewpoint] Kornitzer M. **Rev Epidemiol Sante Publique** 1996 Nov;44(6):563–76 (95 ref.) (Eng. Abstr.) **(Fre)**

[Epidemiology of cardiovascular diseases: role of ovarian hormones] Lepori M, et al. **Schweiz Rundsch Med Prax** 1997 Jan 28;86(5):150–3 (21 ref.) (Eng. Abstr.) **(Fre)**

[National health survey—sobering facts] Küpper C. **Fortschr Med** 1996 Jul 20;114(20–21):257–8 **(Ger)**

[Nonparticipation as a factor influencing the value of follow-up studies. Results of a telephone 5-year follow-up interview of 55–74-year-old participants of the Augsburg 1989/90 MONICA Survey] Baumann A, et al. **Gesundheitswesen** 1997 Apr;59 Suppl 1:19–25 (Eng. Abstr.) **(Ger)**

[Professional work of woman as a risk factor for circulation disorders] Makowiec-Dąbrowska T. **Med Pr** 1996; 47(5):485–500 (45 ref.) (Eng. Abstr.) **(Pol)**

[The influence of biometeorologic conditions on morbidity] Kochmański M, et al. **Pol Merkuriusz Lek** 1996 Aug; 1(2):147–9 (40 ref.) (Eng. Abstr.) **(Pol)**

[Changes in hospitalization frequency for circulatory system diseases, injuries, poisonings and neoplasms in Poland in the years 1979–1993] Chańska M, et al. **Przegl Epidemiol** 1995;49(4):425–34 (Eng. Abstr.) **(Pol)**

[Pathology of the circulatory system in officers of the Naval Fleet: an analysis of the trends and means for decreasing morbidity] Emel'ianenko VM. **Voen Med Zh** 1997 May; 318(5):54–6 **(Rus)**

[Epidemiologic study of cardiovascular risk factors in Alcala de Henares, Madrid] Altallaa Rached A, et al. **An Med Interna** 1997 May;14(5):226–30 (Eng. Abstr.) **(Spa)**

[Waist/hip ratio. Obesity and cardiovascular risk (editorial; comment)] Jover Sanz E. **An Med Interna** 1997 Jan; 14(1):1–2. Comment on: An Med Interna 1997 Jan;14(1):3–8. **(Spa)**

[The prevalence of cardiovascular risk factors in a rural population from the north of Catalonia (Spain): La Cerdana] Subirats i Bayego E, et al. **An Med Interna** 1997 May;14(5):220–5 (Eng. Abstr.) **(Spa)**

[Description of a population with four associated cardiovascular risk factors and the relationship of these with basal insulinemia (see comments)] García AM, et al. **Aten Primaria** 1996 Dec;18(10):558–62 (Eng. Abstr.). Comment in: Aten Primaria 1997 Jul–Aug;20(3):157–8. **(Spa)**

[The Mediterranean diet in Spain. Legend or reality? (II). Other elements in the Mediterranean diet: vegetables and fruits, fish. Evolution of the diet and cardiovascular diseases in Spain in the last decades] Alvarez-Sala Walther LA, et al. **Rev Clin Esp** 1996 Sep;196(9):636–46 (161 ref.) **(Spa)**

[Cardiovascular risk factors in healthy adult men: influence of physical activity and dietary habits] Dadán S, et al. **Rev Med Chil** 1996 Aug;124(8):911–7 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Major electrocardiographic abnormalities among American Indians aged 45 to 74 years (the Strong Heart Study). Oopik AJ, et al. **Am J Cardiol** 1996 Dec 15;78(12):1400–5

Racial and ethnic disparities in the use of cardiovascular procedures: associations with type of health insurance. Carlisle DM, et al. **Am J Public Health** 1997 Feb; 87(2):263–7

Relationship of cardiovascular risk factors to racial differences in femoral bypass surgery and abdominal aortic aneurysmectomy in Massachusetts. LaMorte WW, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:25–35 (27 ref.)

Considerations for racial differences in the athlete's heart and related cardiovascular disease. Lewis JF. **Cardiol Clin** 1997 Aug;15(3):485–91 (64 ref.)

Factors associated with variations in pulmonary function among elderly Japanese-American men. Burchfiel CM, et al. **Chest** 1997 Jul;112(1):87–97

Cardiovascular risk factors in Mexican-American and non-Hispanic white children: The Corpus Christi Child Heart Study. Tortolero SR, et al. **Circulation** 1997 Jul 15; 96(2):418–23

Markers for cardiovascular and renal morbidity: expectations for an intervention programme in an Australian aboriginal community. Hoy WE, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S33–7

Risk factors for cardiovascular disease in Canadians of South Asian and European origin: a pilot study of the Study of Heart Assessment and Risk in Ethnic Groups (SHARE). Anand SS, et al. **Clin Invest Med** 1997 Aug;20(4):204–10

The health consequences of racial discrimination: a study of African Americans. Broman CL. **Ethn Dis** 1996 Winter–Spring;6(1–2):148–53

Plasma fibrinogen in Israeli Moslem and Jewish school-children: distribution and relation to other cardiovascular risk factors. The Petah Tikva project. Zahavi I, et al. **Isr J Med Sci** 1996 Dec;32(12):1207–12

Cultural consideration in promoting wellness. Keller CS, et al. **J Cardiovasc Nurs** 1997 Apr;11(3):15–25 (54 ref.)

A multicultural perspective of cardiovascular disease. Kernicki JG. **J Cardiovasc Nurs** 1997 Jul;11(4):31–40 (35 ref.)

Cohort study of ethnic group and cardiovascular and total mortality over 15 years. Tverdal A. **J Clin Epidemiol** 1997 Jun;50(6):719–23

Cardiovascular disease in African American and white physicians: the Meharry Cohort and Meharry-Hopkins Cohort Studies. Thomas J, et al. **J Health Care Poor Underserved** 1997 Aug;8(3):270–83; discussion 284

Cardiovascular risk factors among Asian Americans. Klatsky AL, et al. **Public Health Rep** 1996;111 Suppl 2:62–4

Factors determining the maintenance dose of warfarin in Chinese patients [see comments] Yu HC, et al. **QJM** 1996 Feb;89(2):127–35. Comment in: QJM 1996 Jul;89(7):557.

[Risk factors for cardiovascular diseases in Turks in Amsterdam and in Ankara] Köycü B, et al. **Ned Tijdschr Geneeskd** 1997 May 3;141(18):882–8 (Eng. Abstr.) **(Dut)**

ETIOLOGY

Nutrition and cardiovascular disease [editorial] Kesteloot H. **Acta Cardiol** 1996;51(4):327–30

Cardiovascular complications in end-stage renal disease and hemodialysis patients. Kes P, et al. **Acta Med Croatica** 1996; 50(4–5):199–208 (95 ref.)

Evaluation of myocardial muscle functional parameters in patients with multiple sclerosis. Ziaber J, et al. **Acta Neurol Scand** 1997 Jun;95(6):335–7

Waist percentiles: a simple test for atherogenic disease? Zannolli R, et al. **Acta Paediatr** 1996 Nov;85(11):1368–9

Comparison of risk profiles for cardiovascular events: implications for prevention. Kannel WB, et al. **Adv Intern Med** 1997;42:39–66 (66 ref.)

Can cardiovascular complications be prevented in dialysis patients? Raine AE. **Adv Nephrol Necker Hosp** 1996; 25:317–39 (103 ref.)

Spirometric findings and cardiovascular risk [letter] Singh R. **Am Fam Physician** 1997 Sep 15;56(4):1071

Cardiovascular disease and occupational exposure to environmental tobacco smoke. Aviado DM. **Am Ind Hyg Assoc J** 1996 Mar;57(3):285–94 (75 ref.)

Visceral fat mass in childhood: a potential early marker for increased risk of cardiovascular disease [editorial; comment] Ellis KJ. **Am J Clin Nutr** 1997 Jun;65(6):1887–8. Comment on: Am J Clin Nutr 1997 Jun;65(6):1703–8.

Regional fat distribution in women and risk of cardiovascular disease [see comments] Williams MJ, et al. **Am J Clin Nutr** 1997 Mar;65(3):855–60. Comment in: Am J Clin Nutr 1997 Sep;66(3):712–3.

Hyperhomocysteinemia. An emerging and important risk factor for thromboembolic and cardiovascular disease [see comments] [published erratum appears in Am J Clin Pathol 1997 May;107(5):621] Guba SC, et al. **Am J Clin Pathol** 1996 Dec;106(6):709–22 (94 ref.). Comment in: Am J Clin Pathol 1997 Jul;108(1):115.

Low insulin sensitivity is associated with clustering of cardiovascular disease risk factors. Mykkänen L, et al. **Am J Epidemiol** 1997 Aug 15;146(4):315–21

Physical activity and cardiovascular disease risk profile in women. Pols MA, et al. **Am J Epidemiol** 1997 Aug 15; 146(4):322–8

Trends in serum lipid levels during 1980–1992 in children and young adults. The Cardiovascular Risk in Young Finns Study. Porkka KV, et al. **Am J Epidemiol** 1997 Jul 1; 146(1):64–77

Exercise intensity and subclinical cardiovascular disease in the elderly. The Cardiovascular Health Study. Siscovick DS, et al. **Am J Epidemiol** 1997 Jun 1;145(11):977–86

Re: "Height and the risk of cardiovascular disease in women" [letter; comment] Walker M, et al. **Am J Epidemiol** 1996 Oct 1;144(7):708–9. Comment on: Am J Epidemiol 1995 Nov 1;142(9):909–17.

The great salt war [editorial] Alderman MH. **Am J Hypertens** 1997 May;10(5 Pt 1):584–5

Health effects of working in pulp and paper mills: exposure, obstructive airways diseases, hypersensitivity reactions, and cardiovascular diseases. Torén K, et al. **Am J Ind Med** 1996 Feb;29(2):111–22 (75 ref.)

Elevated systolic blood pressure: increased cardiovascular risk and rationale for treatment. Applegate WB, et al. **Am J Med** 1996 Sep 30;101(3A):3S–9S (47 ref.)

Interactive action of the white-coat effect and the blood pressure levels on cardiovascular complications in hypertension. Palatini P, et al. **Am J Med** 1997 Sep; 103(3):208–16

Composite cardiovascular risk outcomes of a work-site intervention trial [see comments] Gomel MK, et al. **Am J Public Health** 1997 Apr;87(4):673–6. Comment in: Am J Public Health 1997 Apr;87(4):548–50.

Human granulocytic ehrlichiosis: a cardiac risk factor? [letter; comment] Jorde UP. **Ann Intern Med** 1997 Jul 1; 127(1):89–90. Comment on: Ann Intern Med 1996 Dec 1;125(11):904–8.

The role of angiotensin receptors in cardiovascular diseases. Helin K, et al. **Ann Med** 1997 Feb;29(1):23–9 (67 ref.)

Poor fitness is independently associated with elevated lipids in male adolescents. Arden MR, et al. **Ann N Y Acad Sci** 1997 May 28;817:348–50

Family-oriented detection of cardiovascular risk factors in early adolescence. Vobecky JS, et al. **Ann N Y Acad Sci** 1997 May 28;817:393–5

Tumor necrosis factor (TNF) and nitric oxide (NO) mediate the acute cardiovascular effects of endotoxemia [letter; comment] Odeh M. **Ann Surg** 1997 Mar;225(3):342. Comment on: Ann Surg 1996 Jan;223(1):63–9.

Cardiovascular events and correlates in the Veterans Affairs Diabetes Feasibility Trial. Veterans Affairs Cooperative Study on Glycemic Control and Complications in Type II Diabetes. Abraira C, et al. **Arch Intern Med** 1997 Jan 27;157(2):181–8

Reduced cardiovascular mortality risk in male smokers who are physically active. Results from a 25-year follow-up of the prospective population study men born in 1914. Hedblad B, et al. **Arch Intern Med** 1997 Apr 28; 157(8):893–9

Twelve-year trends in cardiovascular disease risk factors in the Minnesota Heart Survey. Are socioeconomic differences widening? Irbarren C, et al. **Arch Intern Med** 1997 Apr 28;157(8):873–81

Nutritional management of cardiovascular risk factors. A randomized clinical trial. McCarron DA, et al. **Arch Intern Med** 1997 Jan 27;157(2):169–77

The cardiovascular complications of vigorous physical activity [see comments] Thompson PD. **Arch Intern Med** 1996 Nov 11;156(20):2297–302 (56 ref.) . Comment in: Arch Intern Med 1997 Jun 9;157(11):1269–70.

The pathogenesis of cardiovascular disease: role of the endothelium as a target and mediator. Lüscher TF, et al. **Atherosclerosis** 1995 Dec;118 Suppl:S81–90 (83 ref.)

Susceptibility of VLDL to oxidation in patients on regular haemodialysis. McEneny J, et al. **Atherosclerosis** 1997 Mar 21;129(2):215–20

Serum leptin levels are independently correlated with two measures of HDL. Rainwater DL, et al. **Atherosclerosis** 1997 Jul 25;132(2):237–43

Chronic renal disease and cardiovascular complications: inevitable or preventable? Now is the time for some intervention studies [editorial] Irish AB, et al. **Aust N Z J Med** 1997 Jun;27(3):273–4

Cardiovascular disease and diabetes in women with polycystic ovary syndrome. McKeigue P. **Baillieres Clin Endocrinol Metab** 1996 Apr;10(2):311–8 (35 ref.)

Concomitant risk factors in hypertensives: a survey of risk factors for cardiovascular disease amongst hypertensives in English general practices. Poulter NR, et al. **Blood Press** 1996 Jul;5(4):209–15

Hypertension and lipids. Sznajderman M. **Blood Press Suppl** 1996;1:14–7 (23 ref.)

Contour control, survival, and quality of life [editorial; comment] Tunstall-Pedoe H. **BMJ** 1997 May 3; 314(7090):1291–2. Comment on: BMJ 1997 May 3;314(7090):1311–7.

Cardiovascular function in children following bone marrow transplant: a cross-sectional study. Eames GM, et al. **Bone Marrow Transplant** 1997 Jan;19(1):61–6

The risk of cardiovascular disease in hypertensive patients [letter; comment] Treasure W. **Br J Gen Pract** 1997 Jun; 47(419):405–6. Comment on: Br J Gen Pract 1997 Mar;47(416):182.

Fetal nutrition and cardiovascular disease in later life. Barker DJ. **Br Med Bull** 1997 Jan;53(1):96–108 (54 ref.)

Diet and heart disease. The role of fat, alcohol, and antioxidants. Gaziano JM, et al. **Cardiol Clin** 1996 Feb; 14(1):69–83 (130 ref.)

Magnesium and cardiovascular biology: an important link between cardiovascular risk factors and atherogenesis. Altura BM, et al. **Cell Mol Biol Res** 1995;41(5):347–59 (95 ref.)

Macrovascular disease in Sri Lankan kidney transplant recipients. Lanerolle RL, et al. **Ceylon Med J** 1997 Jun; 42(2):78–80

NIDA conference report on cardiopulmonary complications of "crack" cocaine use. Clinical manifestations and pathophysiology. Thadani PV. **Chest** 1996 Oct; 110(4):1072–6

Obesity and cardiovascular disease. Shaper AG. **Ciba Found Symp** 1996;201:90–103; discussion 103–7, 188–93 (41 ref.)

Lipid hypothesis of cardiovascular calcification [editorial; comment] Demer LL. **Circulation** 1997 Jan 21;95(2):297–8 (18 ref.). Comment on: Circulation 1997 Jan 21;95(2):479–88.

Trans fatty acids, plasma lipid levels, and risk of developing cardiovascular disease. A statement for healthcare professionals from the American Heart Association. Lichtenstein AH. **Circulation** 1997 Jun 3;95(11):2588–90 (23 ref.)

Genetics of interventional cardiology. Old principles, new frontiers [editorial; comment] Lindpaintner K. **Circulation** 1997 Jul 1;96(1):12–4. Comment on: Circulation 1997 Jul 1;96(1):56–60.

Cardiovascular risk factors in Mexican-American and non-Hispanic white children: The Corpus Christi Child Heart Study. Tortolero SR, et al. **Circulation** 1997 Jul 15; 96(2):418–23

New views on the relationship of plasma lipids to cardiovascular disease [editorial; comment] Tracy RP, et al. **Circulation** 1997 Mar 18;95(6):1347–8. Comment on: Circulation 1997 Mar 18;95(6):1370–7.

Role of the endothelium in the genesis of cardiovascular disease. Angus JA. **Clin Exp Pharmacol Physiol** 1996 Aug; 23(8):S16–22 (29 ref.)

Risk factors for cardiovascular disease in Canadians of South Asian and European origin: a pilot study of the Study of Heart Assessment and Risk in Ethnic Groups (SHARE). Anand SS, et al. **Clin Invest Med** 1997 Aug;20(4):204–10

AAP: health supervision for children with Marfan syndrome. Moodie DS. **Clin Pediatr (Phila)** 1997 Aug;36(8):489

Cardiovascular risk factors in long-term follow-up after orthotopic liver transplantation. Guckelberger O, et al. **Clin Transplant** 1997 Feb;11(1):60–5

Correlation between cardiovascular disease risk factors and simple anthropometric measures. Canadian Heart Health Surveys Research Group. Ledoux M, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S46–53

A comparative analysis of weight to height and waist to hip circumference indices as indicators of the presence of cardiovascular disease risk factors. Canadian Heart Health Surveys Research Group. Ledoux M, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S32–8

The association of cardiovascular disease risk factors with abdominal obesity in Canada. Canadian Heart Health Surveys Research Group. Reeder BA, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S39–45

Genetics and molecular biology [editorial] Cumming AM. **Curr Opin Lipidol** 1996 Feb;7(1):U5–8

Hyperlipidemia and cardiovascular disease [editorial] Le NA. **Curr Opin Lipidol** 1997 Apr;8(2):U22–4 (12 ref.)

Lipids, lipoproteins, obesity and the cardiovascular risk, what is new and what has been left aside [editorial] Sirtori CR, et al. **Curr Opin Lipidol** 1997 Aug;8(4):197–9

The circadian pattern of blood pressure: cardiovascular risk and therapeutic opportunities. Neutel JM, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):250–6 (52 ref.)

Cardiovascular involvement in AIDS. Michaels AD, et al. **Curr Probl Cardiol** 1997 Mar;22(3):109–48 (213 ref.)

Fasting plasma glucose as a screening test for diabetes and its relationship with cardiovascular risk factors in Hong Kong Chinese. Ko GT, et al. **Diabetes Care** 1997 Feb; 20(2):170–2

Insulin and insulin-like growth factor-I: their role as risk factors in the development of diabetic cardiovascular disease. Göke B, et al. **Diabetes Res Clin Pract** 1996 Feb; 30 Suppl:93–106 (102 ref.)

Influence of hypoglycaemic sulphonylureas on the electrophysiological parameters of the heart. Koltai MZ. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S15–20 (31 ref.)

Autonomic neuropathy and cardiovascular risk factors in insulin-dependent and non insulin-dependent diabetes. Spallone V, et al. **Diabetes Res Clin Pract** 1997 Jan; 34(3):169–79

Abnormal glucocorticoid activity in subjects with risk factors for cardiovascular disease. Walker BR. **Endocr Res** 1996 Nov;22(4):701–8 (26 ref.)

Recruitment and enrollment for Project HeartBeat! Achieving the goals of minority inclusion. Grunbaum JA, et al. **Ethn Dis** 1996 Autumn;6(3–4):203–12

Relationship between fasting insulin and cardiovascular risk factors is already present in young men: the Verona Young Men Atherosclerosis Risk Factors Study. Bonora E, et al. **Eur J Clin Invest** 1997 Mar;27(3):248–54

Cardiological effects of catecholamine-secreting tumours. Schürmeyer TH, et al. **Eur J Clin Invest** 1997 Mar; 27(3):189–95

Selections from current literature: homocysteine: a modifiable risk factor for cardiovascular disease. Singh H. **Fam Pract** 1997 Aug;14(4):335–9 (34 ref.)

Relationship of job strain to standard coronary risk factors and psychological characteristics in women and men of the Family Heart Study. Weidner G, et al. **Health Psychol** 1997 May;16(3):239–47

The St Vincent Task Force for diabetes: report of the cardiovascular disease subgroup. Pentecost B, et al. **Heart** 1996 Aug;76(2):107–8

Cardiovascular risk factors in the older adult. Kannel WB. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):135–8, 143–4, 147–8, passim

The public warnings on cardiovascular disease and third-generation oral contraceptives were not justified. Leader A. **Hum Reprod** 1996 Apr;11(4):692–3 (6 ref.)

Insulin and cardiovascular diseases in Japanese work-site population with borderline to mild hypertension. Takishita S, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S13–8

Left ventricular mass in the elderly. The Cardiovascular Health Study. Gardin JM, et al. **Hypertension** 1997 May; 29(5):1095–103

Neural circulatory responses to carbon monoxide in healthy humans. Hausberg M, et al. **Hypertension** 1997 May; 29(5):1114–8

Cardiovascular involvement in leptospirosis. Rajiv C, et al. **Indian Heart J** 1996 Nov-Dec;48(6):691–4

Nutrition and cardiovascular disease [editorial] **Indian J Physiol Pharmacol** 1997 Apr;41(2):95–100 (36 ref.)

Cardiorespiratory disturbances following antibiotic prophylaxis in general surgery: reasons for a complex reappraisal of a common problem. Stinner B, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S71–2

Relationship between job stress and plasma fibrinolytic activity in male Japanese workers. Ishizaki M, et al. **Int Arch Occup Environ Health** 1996;68(5):315–20

Insulin resistance syndrome and fibrinolytic activity: the northern Sweden MONICA study. Lindahl B, et al. **Int J Epidemiol** 1996 Apr;25(2):291–9

Intra-abdominal adipose tissue, physical activity and cardiovascular risk in pre- and post-menopausal women. Hunter GR, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):860–5

Hyperviscosity and microproteinuria in central obesity: relevance to cardiovascular risk. Solerte SB, et al. **Int J Obes Relat Metab Disord** 1997 Jun;21(6):417–23

Dexfenfluramine as an adjunct to a reduced-fat, ad libitum diet: effects on body composition, nutrient intake and cardiovascular risk factors. Swinburn BA, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1033–40

Intra-abdominal adipose tissue cut-points related to elevated cardiovascular risk in women. Williams MJ, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):613–7

What is the role of lipoprotein abnormalities and platelet aggregation defects in cardiovascular disease in chronic dialysis patients? Winkler J, et al. **Int Urol Nephrol** 1997; 29(1):91–4

Gum disease may increase risk of heart disease [news] **J Am Dent Assoc** 1997 May;128(5):554

Cardiovascular disease after renal transplantation. Kasiske BL, et al. **J Am Soc Nephrol** 1996 Jan;7(1):158–65

Promoting wellness by delaying age of cardiovascular disease onset: development of a model. Weaver MT, et al. **J Cardiovasc Nurs** 1997 Apr;11(3):80–92

The effects of dexfenfluramine on weight loss and cardiovascular risk factors in female patients with upper and lower body obesity. Ditschuneit HH, et al. **J Cardiovasc Risk** 1996 Aug;3(4):397–403

Trace elements and cardiovascular diseases. Houtman JP. **J Cardiovasc Risk** 1996 Feb;3(1):18–25 (96 ref.)

Environmental cadmium exposure, hypertension and cardiovascular risk. Nakagawa H, et al. **J Cardiovasc Risk** 1996 Feb;3(1):11–7 (58 ref.)

Selenium as a risk factor for cardiovascular diseases. Nève J. **J Cardiovasc Risk** 1996 Feb;3(1):42–7 (63 ref.)

Environmental magnesium deficiency as a cardiovascular risk factor. Rylander R. **J Cardiovasc Risk** 1996 Feb;3(1):4–10 (48 ref.)

Public health implications of environmental exposure to cadmium and lead: an overview of epidemiological studies in Belgium. Working Groups. Staessen JA, et al. **J Cardiovasc Risk** 1996 Feb;3(1):26–41 (155 ref.)

Cardiovascular risk and responsivity to mental stress: the influence of age, gender and risk factors. Steptoe A, et al. **J Cardiovasc Risk** 1996 Feb;3(1):83–93

The pediatric pulmonary and cardiovascular complications of vertically transmitted human immunodeficiency virus (P2C2 HIV) infection study: design and methods. The P2C2 HIV Study Group. **J Clin Epidemiol** 1996 Nov; 49(11):1285–94

Fetal and infant origins of adult disease [editorial] Hales CN. **J Clin Pathol** 1997 May;50(5):359

Cardiac complications in non-insulin-dependent diabetes mellitus. Julien J. **J Diabetes Complications** 1997 Mar-Apr; 11(2):123–30 (37 ref.)

Cardiovascular effects of GH. Bengtsson BA, et al. **J Endocrinol** 1997 Jan;152(1):1–3

Relationships between smoking habits and other behavior factors among males: from the results of the 1990 National Cardiovascular Survey in Japan. Nakamura Y, et al. **J Epidemiol** 1996 Jun;6(2):87–91

Changes in cardiovascular disease risk factors in three Japanese national surveys 1971–1990. Sakata K, et al. **J Epidemiol** 1996 Jun;6(2):93–107

Political changes and trends in cardiovascular risk factors in the Czech Republic, 1985–92. Bobak M, et al. **J Epidemiol Community Health** 1997 Jun;51(3):272–7

Reliability of data from proxy respondents in an international case-control study of cardiovascular disease and oral contraceptives. World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception. Poulter NR, et al. **J Epidemiol Community Health** 1996 Dec;50(6):674–80

Review: the central role of calcium in the pathogenesis of cardiovascular disease. Haller H, et al. **J Hum Hypertens** 1996 Mar;10(3):143–55 (79 ref.)

Gender and cardiovascular risk. Khaw KT. **J Hum Hypertens** 1996 Jun;10(6):403–7 (30 ref.)

The effect of hormone replacement therapy on blood pressure and cardiovascular risk factors in menopausal women with moderate hypertension [see comments] Kornhauser C, et al. **J Hum Hypertens** 1997 Jul; 11(7):405–11. Comment in: J Hum Hypertens 1997 Jul;11(7):397–9.

Angina pectoris by Rose questionnaire does not predict cardiovascular disease in treated hypertensive patients. Madhavan S, et al. **J Hypertens** 1995 Nov;13(11):1307–12

Heart rate and the cardiovascular risk. Palatini P, et al. **J Hypertens** 1997 Jan;15(1):3–17 (139 ref.)

Hyperinsulinemia and clustering of cardiovascular risk factors in middle-aged hypertensive Finnish men and women. Vanhala MJ, et al. **J Hypertens** 1997 May; 15(5):475–81

The case for mild hyperhomocysteinaemia as a risk factor. Boers GH. **J Inherit Metab Dis** 1997 Jun;20(2):301–6 (23 ref.)

Cardiovascular risk factors and electrographical characteristics and abnormalities in middle-aged males. Lind L, et al. **J Intern Med** 1997 Feb;241(2):109–13

Clinical features in persons with a family history of diabetes compared to controls (The Second Generation Fredericia Study). Vestbo E, et al. **J Intern Med** 1996 Dec; 240(6):381–7

Autonomic neuropathy in diabetic children. Verrotti A, et al. **J Paediatr Child Health** 1995 Dec;31(6):545–8

Periodontal disease and cardiovascular disease. Beck J, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1123–37 (68 ref.)

Health profiles of current and former smokers and lifelong abstainers. OXCHECK Study Group. OXford and Collaborators HEalth CheckK. Tang J, et al. **J R Coll Physicians Lond** 1997 May-Jun;31(3):304–9

Does iron cause atherosclerosis? Meyers DG. **Kans Med** 1995 Winter;96(4):178–9

Cardiovascular diseases in peritoneal dialysis patients: the size of the problem. Lameire N, et al. **Kidney Int Suppl** 1996 Nov;56:S28–36 (71 ref.)

Is habitual caffeine use a preventable cardiovascular risk factor? James JE. **Lancet** 1997 Jan 25;349(9047):279–81 (30 ref.)

Enigma of fetal/infant-origins hypothesis [comment] [see comments] Kramer MS, et al. **Lancet** 1996 Nov 9; 348(9037):1254–5. Comment on: Lancet 1996 Nov 9;348(9037):1259–63. Comment on: Lancet 1996 Nov 9;348(9037):1264–8. Comment on: Lancet 1996 Nov 9;348(9037):1269–73. Comment in: Lancet 1997 Jan 25;349(9047):286–7. Comment in: Lancet 1997 Jan 25;349(9047):287.

White-coat hypertension [letter; comment] Lim PO, et al. **Lancet** 1996 Nov 23;348(9039):1445. Comment on: Lancet 1996 Sep 7;348(9028):654–7.

The epidemiology of cardiovascular disease in type 2 diabetes mellitus: how sweet it is ... or is it? Nathan DM, et al. **Lancet** 1997 Jul;350 Suppl 1:SI4–9 (58 ref.)

Serum total homocysteine concentration and risk of stroke [letter] Perry IJ. **Lancet** 1996 Nov 30;348(9040):1526

White-coat hypertension [letter; comment] Verdecchia P, et al. **Lancet** 1996 Nov 23;348(9039):1444–5; discussion 1445–6 . Comment on: Lancet 1996 Sep 7;348(9028):654–7.

What cardiologists need to know about diabetes. Webster MW, et al. **Lancet** 1997 Jul;350 Suppl 1:SI23–8 (53 ref.)

Cardiovascular disease in patients with chronic renal failure. Wheeler DC. **Lancet** 1996 Dec 21-28;348(9043):1673–4

The changing face of macrovascular disease in non-insulin-dependent diabetes mellitus: an epidemic in progress. Zimmet PZ, et al. **Lancet** 1997 Jul;350 Suppl 1:SI1–4 (37 ref.)

Interferon-alpha does not cause significant cardiac dysfunction in patients with chronic active hepatitis. Kadayifci A, et al. **Liver** 1997 Apr;17(2):99–102

Patient-physician agreement about medical diagnoses and cardiovascular risk factors in the ambulatory general medical examination [see comments] Scheitel SM, et al. **Mayo Clin Proc** 1996 Dec;71(12):1131–7. Comment in: Mayo Clin Proc 1996 Dec;71(12):1209–10.

CARDIOVASCULAR DISEASES

Hypertension, aging, and atherosclerosis. The endothelial interface. Susic D. **Med Clin North Am** 1997 Sep; 81(5):1231–40 (55 ref.)

Fish oil may be an antidote for the cardiovascular risk of smoking. McCarty MF. **Med Hypotheses** 1996 Apr; 46(4):337–47 (166 ref.)

Salt intake, cardiovascular disease and public health [editorial; comment] Beilin LJ. **Med J Aust** 1997 Apr 21; 166(8):396–7 (12 ref.). Comment on: Med J Aust 1997 Apr 21;166(8):404–7.

Physical inactivity and cardiovascular disease risk in women. Blair SN. **Med Sci Sports Exerc** 1996 Jan;28(1):9–10

Hypertension and cardiovascular disease risk in women. Thadani U. **Med Sci Sports Exerc** 1996 Jan;28(1):7–8

Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Rus H, et al. **N Engl J Med** 1997 Aug 7;337(6):423; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.

Environmental and genetic determinants of the hypercoagulable state and cardiovascular disease in renal transplant recipients. Irish AB, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):167–73

The kidney and cardiovascular risk [editorial] Ruilope LM. **Nephrol Dial Transplant** 1997 Feb;12(2):243–5

Insulin resistance: a multifaceted syndrome responsible for NIDDM, obesity, hypertension, dyslipidaemia and atherosclerosis. DeFronzo RA. **Neth J Med** 1997 May; 50(5):191–7 (14 ref.)

Effect of weight on cardiovascular disease [editorial] Kannel WB. **Nutrition** 1997 Feb;13(2):157–8

A comparison of cardiovascular risk as measured by compound blood lipid indices and two indices including lifestyle factors in occupational health service. Berg JE. **Occup Med (Oxf)** 1996 Aug;46(4):299–303

Homocystinuria: what about mild hyperhomocysteinaemia? van den Berg M, et al. **Postgrad Med J** 1996 Sep; 72(851):513–8 (46 ref.)

The role of nicotine in smoking-related cardiovascular disease. Benowitz NL. **Prev Med** 1997 Jul–Aug;26(4):412–7 (45 ref.)

Cardiovascular risk factors among children after a 2 1/2-year intervention–The CATCH Study. Webber LS, et al. **Prev Med** 1996 Jul–Aug;25(4):432–41

Intake of nutrients related to cardiovascular disease risk among three groups of American Indians: the Strong Heart Dietary Study. Zephier EM, et al. **Prev Med** 1997 Jul–Aug; 26(4):508–15

Cardiovascular risk factors in women. Williams CM. **Proc Nutr Soc** 1997 Mar;56(1B):383–91 (59 ref.)

Lipids, thrombosis and cardiovascular disease in diabetes. Yudkin JS. **Proc Nutr Soc** 1997 Mar;56(1B):273–80 (45 ref.)

Aging or disease? Cardiovascular reactivity in Finnish men over the middle years. Jennings JR, et al. **Psychol Aging** 1997 Jun;12(2):225–38

Differences between studies in reported relative risks associated with smoking: an overview. van de Mheen PJ, et al. **Public Health Rep** 1996 Sep–Oct;111(5):420–6; discussion 427 (40 ref.)

Homocysteine and cardiovascular disease [editorial; comment] Scott J, et al. **QJM** 1996 Aug;89(8):561–3. Comment on: QJM 1996 Aug;89(8):571–7.

The impact of occupation on self-reported cardiovascular morbidity in western Germany: gender differences. Helmert U, et al. **Rev Environ Health** 1997 Jan–Mar; 12(1):25–42 (41 ref.)

Fibrinogen as a cardiovascular risk factor. Breimer LH, et al. **Rev Port Cardiol** 1997 Mar;16(3):245–50 (56 ref.)

Sex differences in cardiovascular risk factors independent of abdominal fat distribution. Nilsson P, et al. **Scand J Prim Health Care** 1996 Sep;14(3):177–83

Mortality and cancer incidence among women with a high consumption of fatty fish contaminated with persistent organochlorine compounds. Rylander L, et al. **Scand J Work Environ Health** 1995 Dec;21(6):419–26

Cardiovascular risk in women with polycystic ovarian syndrome. Guzick DS. **Semin Reprod Endocrinol** 1996 Feb; 14(1):45–9 (38 ref.)

Is snoring dangerous to your health? Hoffstein V. **Sleep** 1996 Jul;19(6):506–16 (34 ref.)

Prevalance of obesity and overweight in northeastern peninsular Malaysia and their relationship with cardiovascular risk factors. Mohamad WB, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):339–42

Neurologic and vascular complications of scoliosis surgery in patients with Ehlers–Danlos syndrome. A case report. Vogel LC, et al. **Spine** 1996 Nov 1;21(21):2508–14

Physical activity and risk of cardiovascular disease in middle-aged individuals. Recommendations. Rauramaa R, et al. **Sports Med** 1996 Aug;22(2):65–9 (35 ref.)

We need stronger predictors of major vascular events in patients with a recent transient ischemic attack or nondisabling stroke. Dutch TIA Trial Study Group. Dippel DW, et al. **Stroke** 1997 Apr;28(4):774–6

The effect of cigarette-smoking on cardiovascular risk factors: a study of monozygotic twins discordant for smoking. Calori G, et al. **Thromb Haemost** 1996 Jan; 75(1):14–8

[Obesity and cardiopulmonary disease (letter; comment)] Marckmann P. **Ugeskr Laeger** 1996 Sep 30;158(40):5637–8 . Comment on: Ugeskr Laeger 1996 Aug 5;158(32):4496. **(Dan)**

[Genetics of cardio-vascular complications of diabetes] Soubrier F. **Ann Endocrinol (Paris)** 1996;57(3):155–9 (34 ref.) (Eng. Abstr.) **(Fre)**

[Alcohol, wine and cardiovascular risk (editorial)] Richard JL. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1115–6 **(Fre)**

[Passive smoking and cardiovascular diseases] Thomas D. **Bull Acad Natl Med** 1997 Apr;181(4):743–53 (62 ref.) **(Fre)**

[Tobacco and arterial diseases: the reasons for the present failure (editorial)] Lagrue G, et al. **J Mal Vasc** 1997; 22(1):3–4 **(Fre)**

[The heart and travel] Touze JE, et al. **Med Trop (Mars)** 1996;56(3 Suppl):47–9 (12 ref.) **(Fre)**

[Cardiovascular manifestations in systemic scleroderma] Kane A, et al. **Presse Med** 1997 May 24;26(17):796–800 (Eng. Abstr.) **(Fre)**

[Cardiovascular risk factors trends in men from Haute-Garonne, 1985–87 and 1989–91. Results from the MONICA project] Marques-Vidal P, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):5–13 (Eng. Abstr.) **(Fre)**

[The distribution of selected cardiac risk factors in employed and studying youths in the rural region of Steiermark (Austria)] Rásky E, et al. **Soz Praventivmed** 1996; 41(6):348–58 (Eng. Abstr.) **(Ger)**

[Lipoprotein (a) as a cardiovascular risk factor in man] Schneider R, et al. **Harefuah** 1997 Jan 1;132(1):46–50 (57 ref.) **(Heb)**

[Cardiovascular complications of pancreatis diseases] Gyöngyösi M, et al. **Orv Hetil** 1997 Jul 27;138(30):1897–901 (57 ref.) (Eng. Abstr.) **(Hun)**

[Indoor chemical pollutants and their effects on health] De Luca D'Alessandro E, et al. **Ann Ig** 1996 Sep–Oct; 8(5):593–5 (Eng. Abstr.) **(Ita)**

[Arterial hypertension, sympathetic nervous system, and organ lesion] Grassi G, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):245–8 **(Ita)**

[Lipoprotein(a) and the cardiovascular risk during estrogen–progestin replacement therapy in postmenopause] Porcelli A, et al. **Minerva Ginecol** 1997 Jan–Feb; 49(1–2):39–42 (Eng. Abstr.) **(Ita)**

[Role of the renin-angiotensin system in cardiovascular and renal diseases] Kim S. **Nippon Yakurigaku Zasshi** 1997 May; 109(5):223–33 (41 ref.) (Eng. Abstr.) **(Jpn)**

[Abnormal status of vitamins and cardiovascular diseases] Ayaori M, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (15):60–2 (17 ref.) **(Jpn)**

[Cardiovascular manifestations of anemia] Fujii H. **Ryoikibetsu Shokogun Shirizu** 1996;(15):151–4 (2 ref.) **(Jpn)**

[Systemic lupus erythematosus] Kitamoto K. **Ryoikibetsu Shokogun Shirizu** 1996;(15):185–8 (11 ref.) **(Jpn)**

[Cardiovascular disease in leukemia] Nagoshi H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):147–50 (25 ref.) **(Jpn)**

[Cardiovascular complications of overlap syndrome] Suzuki T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):161–4 (18 ref.) **(Jpn)**

[Cardio-circulatory abnormalities in patients with liver cirrhosis] Tabuchi H. **Ryoikibetsu Shokogun Shirizu** 1996; (15):411–4 (17 ref.) **(Jpn)**

[Cardiovascular risk factors in persons aged 40–42 years in the county of Hedmark 1988–94] Sandvig A, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2325–8 (Eng. Abstr.) **(Nor)**

[Free oxygen radicals and their role in the etiopathogenesis of cardiovascular diseases] Komosińska K, et al. **Postepy Hig Med Dosw** 1996;50(6):597–612 (82 ref.) (Eng. Abstr.) **(Pol)**

[Changes in central hemodynamics and their correction during reconstructive surgery in Leriche's syndrome] Neĭmark MI, et al. **Anesteziol Reanimatol** 1997 Mar–Apr; (2):18–22 (Eng. Abstr.) **(Rus)**

[Substantiation of the regulation of environmental heat load for workers exposed to heating microclimate (for example, steel smelting)] Afanas'eva RF, et al. **Med Tr Prom Ekol** 1997;(2):30–4 (Eng. Abstr.) **(Rus)**

[State of cardiovascular and blood coagulation systems during prolonged exposure to extreme stimuli] Morozov VN, et al. **Med Tr Prom Ekol** 1997;(1):5–8 (Eng. Abstr.) **(Rus)**

[Distribution of the major cardiovascular disease risk factors in the adult population of Novi Sad] Dodić B, et al. **Med Pregl** 1997 Jan–Feb;50(1–2):53–5 (Eng. Abstr.) **(Ser)**

[Arterial mechanics in cardiovascular pathology (editorial)] Sánchez Torres G, et al. **Arch Inst Cardiol Mex** 1996 Jul–Aug;66(4):301–5 **(Spa)**

[Heart disease in acromegaly. Study of 27 patients] Marín F, et al. **Med Clin (Barc)** 1996 Sep 21;107(9):326–30 (Eng. Abstr.) **(Spa)**

[Hypertension and high blood levels of fats not hazardous? (letter)] Levin R. **Lakartidningen** 1997 Mar 5;94(10):812 **(Swe)**

GENETICS

The HERITAGE Family Study: quality assurance and quality control. Gagnon J, et al. **Ann Epidemiol** 1996 Nov; 6(6):520–9

In vivo gene transfer: a biological tool. Nabel EG, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:289–92 (17 ref.)

Lp(a) concentrations are related to plasma lipid concentrations. Rainwater DL. **Atherosclerosis** 1996 Nov 15;127(1):13–8

Genetics and behavioral medicine: the error of the error term [see comments] McClearn GE, et al. **Behav Med** 1997 Winter;22(4):150–1. Comment in: Behav Med 1997 Winter;22(4):141–9.

Genetics and behavioral medicine: risk factors for cardiovascular disease [see comments] Vogler GP, et al. **Behav Med** 1997 Winter;22(4):141–9 (56 ref.). Comment in: Behav Med 1997 Winter;22(4):150–1.

Genetics and the therapy of cardiovascular disease. **Br J Clin Pharmacol** 1997 May;43(5):521–3

Oh my aching heart: a case for I.D.P. gene [comment] Weber KT. **Cardiovasc Res** 1996 Dec;32(6):998. Comment on: Cardiovasc Res 1996 Dec;32(6):999–1007.

ACE gene and cardiovascular disease [letter; comment] Dutka DP, et al. **Circulation** 1996 Oct 1;94(7):1787. Comment on: Circulation 1995 Jan 15;91(2):270–4.

Genetic and environmental contributions to cardiovascular risk factors in Mexican Americans. The San Antonio Family Heart Study. Mitchell BD, et al. **Circulation** 1996 Nov 1;94(9):2159–70

ACE*D and cardiovascular disease [letter; comment] Winkelmann BR, et al. **Circulation** 1997 Aug 5;96(3):1050–2 . Comment on: Circulation 1996 Aug 1;94(3):236–9.

Hypothesis: an angiotensin converting enzyme genotype, present in one in three caucasians, is associated with increased mortality rate [published erratum appears in Clin Exp Pharmacol Physiol 1996 May;23(5):447] Morris BJ. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):1–10 (81 ref.)

Short report on DNA marker at candidate locus. Two new alleles in the tetranucleotide repeat polymorphism in the LDL-receptor-related protein (LRP) gene. Harris M, et al. **Clin Genet** 1996 Jul;50(1):54–5

Insulin receptor substrate-1 gene polymorphism and cardiovascular risk in non-insulin dependent diabetes mellitus and patients undergoing coronary angiography. Ossei-Gerning N, et al. **Clin Lab Haematol** 1997 Jun; 19(2):123–8

Basic elements of gene mapping and identification. Consevage M, et al. **Curr Opin Cardiol** 1997 May; 12(3):288–94 (51 ref.)

Genotype and cardiovascular phenotype: lessons from genetically manipulated animals and diseased humans. Sharp MG, et al. **Curr Opin Nephrol Hypertens** 1997 Jan; 6(1):51–7 (59 ref.)

Recombinant inbred and congenic strains for mapping of genes that are responsible for spontaneous hypertension and other risk factors of cardiovascular disease. Křen V, et al. **Folia Biol (Praha)** 1996;42(4):155–8

Serum distribution of lipoprotein(a) in African Americans and Nigerians: potential evidence for a genotype–environmental effect. Rotimi CN, et al. **Genet Epidemiol** 1997;14(2):157–68

Cardiovascular disease and genetics of the renin–angiotensin system. Harrap SB. **Heart** 1996 Nov;76(3 Suppl 3):13–7 (52 ref.)

Quantitative genetics of dehydroepiandrosterone sulfate and its relation to possible cardiovascular disease risk factors in Mexican Americans. Jaquish CE, et al. **Hum Hered** 1996 Nov–Dec;46(6):301–9

A common base change in the promoter region of the human endothelial NO-synthase (NOS3) gene. Meier J, et al. **Hum Mutat** 1996;8(4):394

Molecular genetic approach to the pathophysiology of cardiovascular disease. Kurabayashi M, et al. **Int Angiol** 1996 Sep;15(3):187–94 (54 ref.)

Genes and physiology: molecular physiology in genetically engineered animals. Chien KR. **J Clin Invest** 1996;98(11 Suppl):S19–26 (66 ref.)

Paraoxonase polymorphism Met–Leu54 is associated with modified serum concentrations of the enzyme. A possible link between the paraoxonase gene and increased risk of cardiovascular disease in diabetes. Garin MC, et al. **J Clin Invest** 1997 Jan 1;99(1):62–6

Family history of cardiovascular diseases and risk factors in children. Pasquarella A, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S107–9

A major involvement of the cardiovascular system in patients affected by Marfan syndrome: novel mutations in fibrillin 1 gene. Pepe G, et al. **J Mol Cell Cardiol** 1997 Jul; 29(7):1877–84

Transgenic animal models: new avenues in cardiovascular physiology. Franz WM, et al. **J Mol Med** 1997 Feb; 75(2):115–29

Bad genes, good people, association, linkage, and the environment. Luft FC. **J Mol Med** 1997 May;75(5):309–11

Angiotensin I-converting enzyme insertion/deletion polymorphism: potential significance in nephrology. Kitamura H, et al. **Kidney Int Suppl** 1996 Jun;55:S101–3 (21 ref.)

V677 mutation of methylenetetrahydrofolate reductases and cardiovascular disease in Canadian Inuit [letter] Hegele RA, et al. **Lancet** 1997 Apr 26;349(9060):1221–2

Platelet alloantigens: cardiovascular as well as immunological risk factors? [comment] Newman PJ. **Lancet** 1997 Feb 8; 349(9049):370–1. Comment on: Lancet 1997 Feb 8;349(9049):385–8.

Antioxidant dietary status and genetic cardiovascular risk, or how an adequate intake of a-tocopherol, selenium, taurine, magnesium and various other natural antioxidants

may overcome the deleterious metabolic consequences related to the E4-4 type of apolipoprotein E [editorial] Durlach J, et al. **Magnes Res** 1996 Jun;9(2):139-41 (24 ref.)
Relation of total homocysteine and lipid levels in children to premature cardiovascular death in male relatives. Tonstad S, et al. **Pediatr Res** 1996 Jul;40(1):47-52
Absence of association between angiotensin I-converting enzyme (ACE) DD genotype and the frequency of ACE inhibitor therapy. Sigusch HH, et al. **Pharmazie** 1997 Jul; 52(7):565-6
Can cardiologists disregard cardiac genetics and molecular biology? [editorial] Bouvagnet P. **S Afr Med J** 1997 Jun; 87 Suppl 3:C133-4
A prospective cardiovascular population study used in genetic epidemiology. The Copenhagen City Heart Study. Nordestgaard BG, et al. **Scand J Clin Lab Invest Suppl** 1996;226:65-71
The genetic basis of pediatric cardiovascular disease. Strauss AW, et al. **Semin Perinatol** 1996 Dec;20(6):564-76 (78 ref.)
Genetic predisposition to hyperhomocysteinemia: deficiency of methylenetetrahydrofolate reductase (MTHFR). Rozen R. **Thromb Haemost** 1997 Jul;78(1):523-6 (32 ref.)
HLA*A2 confers mortality risk for cardiovascular disease in Pimans. Williams RC, et al. **Tissue Antigens** 1996 Mar; 47(3):188-93
[Genetics of cardio-vascular complications of diabetes] Soubrier F. **Ann Endocrinol (Paris)** 1996;57(3):155-9 (34 ref.) (Eng. Abstr.) **(Fre)**
[Notions of molecular genetics] Jeunemaître X. **Arch Mal Coeur Vaiss** 1997 Jun;90 Spec No 3:11-5 (Eng. Abstr.) **(Fre)**
[Genetics of cardiovascular diseases (editorial)] Komajda M. **Arch Mal Coeur Vaiss** 1997 Jun;90 Spec No 3:9-10 **(Fre)**
[Gene therapy in cardiovascular medicine: reality or fantasy?] Dal Palù C, et al. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:55S-59S (18 ref.) (Eng. Abstr.) **(Ita)**
[Genetic polymorphism of the renin-angiotensin system and cardiovascular diseases] Castellano M, et al. **Cardiologia** 1997 Aug;42(8):803-13 (127 ref.) **(Ita)**
[Pathogenetic importance of gene polymorphisms in the renin-angiotensin system] Chudek J, et al. **Pol Arch Med Wewn** 1996 Oct;96(4):369-77 (79 ref.) **(Pol)**
[Use of recombinant DNA technique in circulatory system diseases. A short outline of recombinant DNA methods] Buraczyńska M, et al. **Pol Merkuriusz Lek** 1996 Aug; 1(2):139-42 (18 ref.) (Eng. Abstr.) **(Pol)**
[Use of recombinant DNA techniques in circulatory system diseases. Use of DNA analysis for evaluating diseases of circulation] Buraczyńska M, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):143-6 (31 ref.) **(Pol)**
[The role of DNA polymorphism in the renin-angiotensin system and the pathogenesis of cardiovascular diseases] Stajszczyk M, et al. **Postepy Hig Med Dosw** 1997; 51(2):171-83 (56 ref.) (Eng. Abstr.) **(Pol)**

HISTORY

Frederick Henry Horatio Akbar Mahomed: 'a brave and ambitious explorer'. Lewis O. **J Hum Hypertens** 1997 May; 11(5):255-61
Cardiovascular surgery. The Maryland State Medical Journal 1956 [classical article] Cowley RA. **Md Med J** 1997 Jan; 46(1):29-30
[Hadiths on the treatment of diseases of the heart and blood vessels] Sokolović S. **Med Arh** 1997;51(1-2):29-30 (Eng. Abstr.) **(Scr)**

IMMUNOLOGY

Neutrophil activation in smokers. Pitzer JE, et al. **Biorheology** 1996 Jan-Feb;33(1):45-58
Proceedings of the 1st International Meeting on Immunology of Cardiovascular Receptors. Taiyuan, China, May 24-26, 1995. **Blood Press Suppl** 1996;3:4-64
Mechanisms and consequences of cell activation in the microcirculation. Mazzoni MC, et al. **Cardiovasc Res** 1996 Oct;32(4):709-19 (95 ref.)
Perioperative variation in phagocytic activity against Candida albicans measured by a flow-cytometric assay in cardiovascular-surgery patients. Tran TL, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):447-51
Cardiorespiratory disturbances following antibiotic prophylaxis in general surgery: reasons for a complex reappraisal of a common problem. Stinner B, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S71-2

METABOLISM

Novel indices of oxidant stress in cardiovascular disease: specific analysis of F2-isoprostanes. Praticò D, et al. **Agents Actions Suppl** 1997;48:25-41 (61 ref.)
The role of angiotensin receptors in cardiovascular diseases. Helin K, et al. **Ann Med** 1997 Feb;29(1):23-9 (67 ref.)
Angiotensin-converting enzyme-independent pathways of angiotensin II formation in human tissues and cardiovascular diseases. Urata H, et al. **Blood Press Suppl** 1996;2:22-8 (49 ref.)
Fibronectin and basement membrane in cardiovascular organogenesis and disease pathogenesis. Farhadian F, et al. **Cardiovasc Res** 1996 Sep;32(3):433-42 (113 ref.)
Collagen: scaffold for repair or execution. Jensen LT, et al. **Cardiovasc Res** 1997 Mar;33(3):535-9 (35 ref.)
Derangements of the nitric oxide synthase pathway, L-arginine, and cardiovascular diseases [editorial; comment] Cooke JP, et al. **Circulation** 1997 Jul 15; 96(2):379-82 (37 ref.). Comment on: Circulation 1997 Jul 15;96(2):667-75. Comment on: Circulation 1997 Jul 15;96(2):689-97.
Clinical significance of endothelin in cardiovascular disease. Schiffrin EL, et al. **Curr Opin Cardiol** 1997 Jul;12(4):354-67 (148 ref.)
Consequences of transcellular biosynthesis of leukotriene C4 on organ function. Maclouf J, et al. **Haemostasis** 1996 Oct; 26 Suppl 4:28-36 (41 ref.)
Physiological and clinical importance of nitric oxide. Madan G, et al. **Indian J Med Sci** 1996 Sep;50(9):318-24 (34 ref.)
Lipoprotein(a) is not elevated in non-diabetic microalbuminuric subjects. A longitudinal study of lipoprotein(a) concentrations and apolipoprotein(a) size isoforms. Yudkin JS, et al. **Int J Clin Lab Res** 1996; 26(1):43-50
Tibolone: influence on markers of cardiovascular disease. Bjarnason NH, et al. **J Clin Endocrinol Metab** 1997 Jun; 82(6):1752-6
Fibrinogen and cardiovascular disease. Meade TW. **J Clin Pathol** 1997 Jan;50(1):13-5
Obesity and metabolic complications: contribution of dehydroepiandrosterone and other steroid hormones. Tchernof A, et al. **J Endocrinol** 1996 Sep;150 Suppl:S155-64 (97 ref.)
Increased risk of cardiovascular disease with erythropoietin in chronic dialysis patients [see comments] Iseki K, et al. **Nephron** 1996;72(1):30-6. Comment in: Nephron 1997;76(1):116; discussion 117.
[Free radicals and related substances in cardiovascular diseases] Feigl D, et al. **Harefuah** 1996 May 15; 130(10):702-5 (42 ref.) **(Heb)**

MICROBIOLOGY

Prospective study of Helicobacter pylori seropositivity and cardiovascular diseases in a general elderly population. Strandberg TE, et al. **BMJ** 1997 May 3;314(7090):1317-8

MORTALITY

Mortality trends: a comparison between Denmark, Hungary and Japan. Kesteloot H, et al. **Acta Cardiol** 1995; 50(5):343-67
Impaired glucose tolerance and its co-variates among 2079 non-diabetic elderly subjects. Ten-year mortality and morbidity in the CASTEL study. CArdiovascular STudy in the ELderly. Casiglia E, et al. **Acta Diabetol** 1996 Dec; 33(4):284-90
Cardiovascular factors influencing survival in dialysis patients. Alpert MA. **Adv Perit Dial** 1996;12:110-9 (57 ref.)
Usefulness of microalbuminuria in predicting cardiovascular mortality in treated hypertensive men with and without diabetes mellitus. Risk Factor Intervention Study Group. Agewall S, et al. **Am J Cardiol** 1997 Jul 15;80(2):164-9
Influence of regional cardiovascular mortality on the use of angiography after acute myocardial infarction. McCullough PA, et al. **Am J Cardiol** 1997 Mar 1; 79(5):575-80
Inverse relation between height and cardiovascular mortality in men during 30-year follow-up. Strandberg TE. **Am J Cardiol** 1997 Aug 1;80(3):349-50
Do cardiovascular risk factors explain the relation between socioeconomic status, risk of all-cause mortality, cardiovascular mortality, and acute myocardial infarction? Lynch JW, et al. **Am J Epidemiol** 1996 Nov 15; 144(10):934-42
Effects of cigarette smoking, diabetes, high cholesterol, and hypertension on all-cause mortality and cardiovascular disease mortality in Mexican Americans. The San Antonio Heart Study. Wei M, et al. **Am J Epidemiol** 1996 Dec 1; 144(11):1058-65
Hypertension, admission blood pressure and perioperative cardiovascular risk. Howell SJ, et al. **Anaesthesia** 1996 Nov; 51(11):1000-4
Patterns of comorbidity and mortality risk in blacks and whites. McGee D, et al. **Ann Epidemiol** 1996 Sep;6(5):381-5
International variations in cardiovascular mortality associated with diabetes mellitus: the WHO Multinational Study of Vascular Disease in Diabetes. Fuller JH, et al. **Ann Med** 1996 Aug;28(4):319-22
The association of microalbuminuria and mortality in non-insulin-dependent diabetes mellitus. A systematic overview of the literature. Dinneen SF, et al. **Arch Intern Med** 1997 Jul 14;157(13):1413-8 (33 ref.)
Reduced cardiovascular mortality risk in male smokers who are physically active. Results from a 25-year follow-up of the prospective population study men born in 1914. Hedblad B, et al. **Arch Intern Med** 1997 Apr 28; 157(8):893-9
Cardiovascular mortality in winter. Keatinge WR, et al. **Arctic Med Res** 1995;54 Suppl 2:16-8 (10 ref.)
Regression analysis of recent changes in cardiovascular morbidity and mortality in The Netherlands [see comments] Bonneux L, et al. **BMJ** 1997 Mar 15;314(7083):789-92. Comment in: BMJ 1997 Jun 21;314(7097):1828.
Ratio of waist circumference to height is better predictor of death than body mass index [letter] Cox BD, et al. **BMJ** 1996 Dec 7;313(7070):1487
Predictors of mortality in insulin dependent diabetes: 10 year observational follow up study. Rossing P, et al. **BMJ** 1996 Sep 28;313(7060):779-84
Impact of postmenopausal hormone therapy on cardiovascular events and cancer. More women are excluded from treatment arm of such trials because of cardiovascular events [letter] Singleton S, et al. **BMJ** 1997 Sep 13;315(7109):676
Lifetime socioeconomic position and mortality: prospective observational study [published erratum appears in BMJ 1997 Apr 5;314(7086):1012] [see comments] Smith GD, et al. **BMJ** 1997 Feb 22;314(7080):547-52. Comment in: ACP J Club 1997 Jul-Aug;127(1):20.
Mortality in Danish fishermen. Jensen OC. **Bull Inst Marit Trop Med Gdynia** 1996;47(1-4):5-10
Blockade of ATP-dependent K+ channels in myocardium and coronary artery smooth muscle: a possible cause of increased cardiovascular mortality in sulfonylurea-treated patients [letter] Gasser R, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):87-9
Paul Dudley White International Lecture. Our future society. A global challenge. Kelly DT. **Circulation** 1997 Jun 3; 95(11):2459-64
Long-term instability of fasting plasma glucose, a novel predictor of cardiovascular mortality in elderly patients with non-insulin-dependent diabetes mellitus: the Verona Diabetes Study. Muggeo M, et al. **Circulation** 1997 Sep 16;96(6):1750-4
Macrovascular disease and hyperglycaemia: 10-year survival analysis in Type 2 diabetes mellitus: the Belfast Diet Study. Hadden DR, et al. **Diabet Med** 1997 Aug;14(8):663-72
Deranged platelet calcium homeostasis in diabetic patients with end-stage renal failure. A possible link to increased cardiovascular mortality? Vicari AM, et al. **Diabetes Care** 1996 Oct;19(10):1062-6
Increased cardiovascular morbidity and mortality in diabetes mellitus: identification of the high risk patient. Janka HU. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:85-8 (24 ref.)
Cardiovascular mortality and morbidity in type-2 diabetes mellitus. Schernthaner G. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S3-13
Predictors of 10-year macrovascular and overall mortality in patients with NIDDM: the Munich General Practitioner Project. Standl E, et al. **Diabetologia** 1996 Dec; 39(12):1540-5
Cardiovascular event classification in the very old: how accurate and how complete? [editorial; comment] Heckbert SR, et al. **Epidemiology** 1997 Sep;8(5):473-4. Comment on: Epidemiology 1997 Sep;8(5):495-500. Comment on: Epidemiology 1997 Sep;8(5):501-4.
Frequent hangovers and cardiovascular mortality in middle-aged men. Kauhanen J, et al. **Epidemiology** 1997 May;8(3):310-4
Physical activity and its association with cardiovascular risk factors and mortality. Mensink GB, et al. **Epidemiology** 1996 Jul;7(4):391-7
Circulatory disease mortality in the very elderly [see comments] Smith DW. **Epidemiology** 1997 Sep;8(5):501-4 . Comment in: Epidemiology 1997 Sep;8(5):473-4.
Increased levels of plasma thrombomodulin are associated with vascular and all-cause mortality in patients on long-term anticoagulant treatment. Jansson JH, et al. **Eur Heart J** 1996 Oct;17(10):1503-5
Serum calcium, magnesium, copper and zinc and risk of cardiovascular death. Reunanen A, et al. **Eur J Clin Nutr** 1996 Jul;50(7):431-7
Space proton flux and the temporal distribution of cardiovascular deaths. Stoupel E, et al. **Int J Biometeorol** 1997 Apr;40(2):113-6
Trends in occupational mortality among middle-aged men in Sweden 1961-1990. Diderichsen F, et al. **Int J Epidemiol** 1997 Aug;26(4):782-7
The constitutional hypothesis negated by twins discordant for smoking and mortality [letter; comment] Jongbloet PH. **Int J Epidemiol** 1997 Feb;26(1):241-3. Comment on: Int J Epidemiol 1996 Jun;25(3):554-9.
Selected aspects of the population health status in ecological hazard areas in comparison with ecologically "clean area". III. localisation of urban regions with high mortality from all and from the circulatory system diseases. Dutkiewicz T, et al. **Int J Occup Med Environ Health** 1995;8(4):321-29
High cardiovascular mortality in postcommunist countries: participation of oxidative stress? Ginter E. **Int J Vitam Nutr Res** 1996;66(3):183-9 (33 ref.)
Efficacy of the implantable cardioverter-defibrillator in the elderly. Panotopoulos PT, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):556-60
A prospective study of sex hormone-binding globulin and fatal cardiovascular disease in Rancho Bernardo men and women. Goodman-Gruen D, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2999-3003
Trends in cardiovascular mortality and the quality of vital statistics [letter; comment] Porta M, et al. **J Clin Epidemiol** 1997 Feb;50(2):221-2. Comment on: J Clin Epidemiol 1995 Apr;48(4):467-72.
Cohort study of ethnic group and cardiovascular and total mortality over 15 years. Tverdal A. **J Clin Epidemiol** 1997 Jun;50(6):719-23
Joint analysis of three U.S. community intervention trials for reduction of cardiovascular disease risk. Winkleby MA, et al. **J Clin Epidemiol** 1997 Jun;50(6):645-58
A prospective study of social networks in relation to total mortality and cardiovascular disease in men in the USA.

Kawachi I, et al. **J Epidemiol Community Health** 1996 Jun; 50(3):245–51

The economic costs of cardiovascular disease mortality in California, 1991: implications for public health policy. Fox P, et al. **J Public Health Policy** 1996;17(4):442–59

Down at heart—the meaning and implications of social inequalities in cardiovascular disease. Smith GD. **J R Coll Physicians Lond** 1997 Jul–Aug;31(4):414–24 (71 ref.)

Cardiovascular mortality in rheumatoid arthritis: how harmful are corticosteroids? [editorial; comment] Raynauld JP. **J Rheumatol** 1997 Mar;24(3):415–6. Comment on: J Rheumatol 1997 Mar;24(3):445–51.

Cardiovascular morbidity and mortality in patients with seropositive rheumatoid arthritis in Northern Sweden. Wallberg-Jonsson S, et al. **J Rheumatol** 1997 Mar; 24(3):445–51

Plasma homocysteine and cardiovascular disease mortality [letter] Alfthan G, et al. **Lancet** 1997 Feb 8;349(9049):397

The impact of cardiovascular disease on people with diabetes: the potential for prevention. Eastman RC, et al. **Lancet** 1997 Jul;350 Suppl 1:SI29–32 (29 ref.)

Glucose intolerance is associated with altered calcium homeostasis: a possible link between increased serum calcium concentration and cardiovascular disease mortality. Wareham NJ, et al. **Metabolism** 1997 Oct;46(10):1171–7

The association between birthplace and mortality from cardiovascular causes among black and white residents of New York City [see comments] Fang J, et al. **N Engl J Med** 1996 Nov 21;335(21):1545–51. Comment in: N Engl J Med 1996 Nov 21;335(21):1597–9. Comment in: N Engl J Med 1997 May 1;336(18):1321; discussion 1321–2.

Increased risk of cardiovascular disease with erythropoietin in chronic dialysis patients [letter; comment] Evans SJ. **Nephron** 1997;76(1):116; discussion 117. Comment on: Nephron 1996;72(1):30–6.

Proceedings of the Workshop on the Changing Mortality Rates of Tobacco-Related Diseases: ACS CPS-1 and CPS-2 Studies. New York, New York, April 15, 1996. **Prev Med** 1997 Jul–Aug;26(4):411–59

Breast arterial calcifications: association with diabetes mellitus and cardiovascular mortality. Work in progress. Kemmeren JM, et al. **Radiology** 1996 Oct;201(1):75–8

Hypertension-related mortality and morbidity in the southeast. Lackland DT, et al. **South Med J** 1997 Feb; 90(2):191–8

Parental history of cardiovascular disease and risk of stroke. A prospective follow-up of 14371 middle-aged men and women in Finland. Jousilahti P, et al. **Stroke** 1997 Jul; 28(7):1361–6

HLA*A2 confers mortality risk for cardiovascular disease in Pimans. Williams RC, et al. **Tissue Antigens** 1996 Mar; 47(3):188–93

[Decrease in cardiovascular disease mortality in the Czech Republic from 1984 to 1993 and its possible causes] Skodová Z, et al. **Cas Lek Cesk** 1997 Jun 12;136(12):373–9 (Eng. Abstr.) **(Cze)**

[Age at menopause as risk factor in cardiovascular mortality (letter)] Jongbloet PH, et al. **Ned Tijdschr Geneeskd** 1997 Jan 4;141(1):62 **(Dut)**

[Cardiovascular mortality and body weight] Parise P, et al. **Recenti Prog Med** 1996 Jul–Aug;87(7–8):325–30 **(Ita)**

[Relationship between heart rate and general mortality and that caused by cardiovascular diseases] Pytlak A, et al. **Przegl Lek** 1997;54(1):25–30 (Eng. Abstr.) **(Pol)**

[Nutrition and mortality from some diet-related diseases] Swistak E, et al. **Rocz Panstw Zakl Hig** 1996;47(3):303–12 (Eng. Abstr.) **(Pol)**

[The main approaches to reducing cardiovascular morbidity and mortality in Russia] Kharchenko VI, et al. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):3–7 (Eng. Abstr.) **(Rus)**

[Trends in mortality from cardiovascular diseases in Andalucia: 1975–1992] Ruiz Ramos M, et al. **Med Clin (Barc)** 1996 Nov 23;107(18):685–8 (Eng. Abstr.) **(Spa)**

[Tendencies in mortality from cardiovascular diseases in the Valencian community (1976–1992)] Bautista Rentero D, et al. **Rev Esp Cardiol** 1997 May;50(5):308–13 (Eng. Abstr.) **(Spa)**

NURSING

Adherence to medication, diet, and activity recommendations: from assessment to maintenance. Burke LE, et al. **J Cardiovasc Nurs** 1995 Jan;9(2):62–79 (97 ref.)

Health promotion across the continuum: challenges for the future of cardiovascular nursing [see comments] Fleury J, et al. **J Cardiovasc Nurs** 1996 Oct;11(1):14–26. Comment in: J Cardiovasc Nurs 1996 Oct;11(1):v–vii.

Assessing cardiovascular status in the older adult with cognitive impairments. Garrett AP. **J Cardiovasc Nurs** 1997 Jul;11(4):1–11

Tissue oxygenation and routine nursing procedures in critically ill patients. Jesurum J. **J Cardiovasc Nurs** 1997 Jul;11(4):12–30 (72 ref.)

Quantification of phase I postanesthesia nursing activities in the phase II postanesthesia care unit. Dexter F, et al. **Nurs Outlook** 1997 Mar–Apr;45(2):86–8

Cardiovascular clinical nurse specialists: demographic, practice and educational characteristics. Caldwell MA, et al. **Prog Cardiovasc Nurs** 1996 Summer;11(3):23–32

PATHOLOGY

Cardiovascular risk factors and hyalinization of renal arterioles at autopsy. The Honolulu Heart Program. Burchfiel CM, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):760–8

Ultrasonographically assessed maximum carotid artery wall thickness in Mexico City residents and Mexican Americans living in San Antonio, Texas. Association with diabetes and cardiovascular risk factors. Wei M, et al. **Arterioscler Thromb Vasc Biol** 1996 Nov;16(11):1388–92

Malignant atrophic papulosis (Degos' disease) with extensive cardiopulmonary involvement. Mauad T, et al. **Histopathology** 1996 Jan;28(1):84–6

Left, right, near or far wall common carotid intima-media thickness measurements: associations with cardiovascular disease and lower extremity arterial atherosclerosis. Bots ML, et al. **J Clin Epidemiol** 1997 Jul;50(7):801–7

The prevalence and severity of white matter lesions, their relationship with age, ethnicity, gender, and cardiovascular disease risk factors: the ARIC Study. Liao D, et al. **Neuroepidemiology** 1997;16(3):149–62

Sulcal, ventricular, and white matter changes at MR imaging in the aging brain: data from the cardiovascular health study [see comments] Yue NC, et al. **Radiology** 1997 Jan; 202(1):33–9. Comment in: Radiology 1997 Jan;202(1):17–9.

[Do we die from myocardial apoptosis? Fashion and reality of different types of cell death in cardiovascular diseases (editorial)] Baroldi G. **G Ital Cardiol** 1997 Apr; 27(4):399–402 **(Ita)**

PHYSIOPATHOLOGY

Spirometric findings and cardiovascular risk [letter] Singh R. **Am Fam Physician** 1997 Sep 15;56(4):1071

Endothelial function as a determinant of vascular function and structure: a new therapeutic target. Gibbons GH. **Am J Cardiol** 1997 Mar 6;79(5A):3–8 (25 ref.)

Improved quality of life in patients with generalized cardiovascular metabolic disease on a prepared diet. Hatton DC, et al. **Am J Clin Nutr** 1996 Dec;64(6):935–43

Epidemiology of thrombotic-hemostatic factors and their associations with cardiovascular disease. Pearson TA, et al. **Am J Clin Nutr** 1997 May;65(5 Suppl):1674S–1682S (104 ref.)

Vitamin E and exercise in the Northern Ireland population. Duly EB, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):234–40

The role of hyperglycaemia and hyperinsulinaemia in causing vascular dysfunction in diabetes. King GL. **Ann Med** 1996 Oct;28(5):427–32 (36 ref.)

Insights in vessel development and vascular disorders using targeted inactivation and transfer of vascular endothelial growth factor, the tissue factor receptor, and the plasminogen system. Carmeliet P, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:191–206 (58 ref.)

Endothelin: from molecule to man. Webb DJ. **Br J Clin Pharmacol** 1997 Jul;44(1):9–20 (84 ref.)

Extracellular matrix and cardiovascular diseases. Ju H, et al. **Can J Cardiol** 1996 Dec;12(12):1259–67 (78 ref.)

Endothelial dysfunction and cardiovascular disease. Sherman DL, et al. **Cardiologia** 1997 Feb;42(2):177–87 (102 ref.)

Effects of physical training on heart rate variability in diabetic patients with various degrees of cardiovascular autonomic neuropathy. Howorka K, et al. **Cardiovasc Res** 1997 Apr;34(1):206–14

Coronary microcirculation in health and disease. Summary of an NHLBI workshop. Chilian WM. **Circulation** 1997 Jan 21;95(2):522–8 (82 ref.)

Oxidative stress produced by angiotensin too. Implications for hypertension and vascular injury [editorial; comment] Oskarsson HJ, et al. **Circulation** 1997 Feb 4;95(3):557–9. Comment on: Circulation 1997 Feb 4;95(3):588–93.

Reversing endothelial dysfunction with ACE inhibitors. A new trend [editorial; comment] Rajagopalan S, et al. **Circulation** 1996 Aug 1;94(3):240–3. Comment on: Circulation 1996 Aug 1;94(3):258–65.

Oestrogen receptors and cardiovascular disease. Baysal K, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):537–48 (82 ref.)

Endothelium-dependent responses and inhibition of angiotensin-converting enzyme. Vanhoutte PM. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S23–9 (56 ref.)

Sex differences in correlates of steady state and pulsatile component of blood pressure. Scuteri A, et al. **Clin Sci (Colch)** 1996 Oct;91(4):385–9

Clinical significance of endothelin in cardiovascular disease. Schiffrin EL, et al. **Curr Opin Cardiol** 1997 Jul;12(4):354–67 (148 ref.)

Hyperlipidaemia and cardiovascular disease [editorial] Buchalter M. **Curr Opin Lipidol** 1997 Jun;8(3):U40–1

Genotype and cardiovascular phenotype: lessons from genetically manipulated animals and diseased humans. Sharp MG, et al. **Curr Opin Nephrol Hypertens** 1997 Jan; 6(1):51–7 (59 ref.)

Nitric oxide mediates the cardiovascular instability of haemodialysis patients. Yokokawa K, et al. **Curr Opin Nephrol Hypertens** 1996 Jul;5(4):359–63 (67 ref.)

Insulin-resistance syndrome and cardiovascular complications of non-insulin-dependent diabetes mellitus. Fontbonne A. **Diabetes Metab** 1996 Oct;22(5):305–13 (102 ref.)

Calcium antagonist treatment, sympathetic activity and platelet function. Hjemdahl P, et al. **Eur Heart J** 1997 Jan; 18 Suppl A:A36–50 (105 ref.)

The paracrine endothelin system: pathophysiology and implications in clinical medicine. Hocher B, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar;35(3):175–89 (157 ref.)

Cardiac autonomic dysfunction in relapsing-remitting multiple sclerosis during a stable phase. Giubilei F, et al. **Eur Neurol** 1996;36(4):211–4

Disruption of vascular signalling by the reaction of nitric oxide with superoxide: implications for cardiovascular disease. Darley-Usmar V, et al. **Exp Physiol** 1997 Mar; 82(2):305–16 (85 ref.)

Altered cardiovascular responsiveness to active tilting in nonalcoholic cirrhosis. Laffi G, et al. **Gastroenterology** 1997 Sep;113(3):891–8

Apoptosis in cardiovascular disease. Davies MJ. **Heart** 1997 Jun;77(6):498–501 (32 ref.)

Cardiovascular and psychosomatic symptoms among relatives of patients waiting for possible coronary revascularization. Bengtson A, et al. **Heart Lung** 1996 Nov-Dec;25(6):438–43

Clinical impact of insulin resistance syndrome in cardiovascular diseases and its therapeutic approach. Harano Y, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S81–5

The beneficial effects of modest weight loss on cardiovascular risk factors. Van Gaal LF, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21 Suppl 1:S5–9 (28 ref.)

Insulin after 75 years: still a heroic hormone [editorial; comment] Halter JB. **J Am Geriatr Soc** 1997 Apr; 45(4):524–5. Comment on: J Am Geriatr Soc 1997 Apr;45(4):407–12.

Heart rate variability: two eras of investigation [editorial; comment] Binkley PF. **J Card Fail** 1996 Sep;2(3):193–6 (18 ref.). Comment on: J Card Fail 1996 Sep;2(3):177–84. Comment on: J Card Fail 1996 Sep;2(3):185–92.

Heart rate variability as an assessment of cardiovascular status. Fleisher LA. **J Cardiothorac Vasc Anesth** 1996 Aug; 10(5):659–71 (96 ref.)

Association of body mass index, blood pressure and serum levels of triglycerides and high-density lipoprotein cholesterol in childhood with the insulin sensitivity index in young adulthood: a 13-year follow-up. Clausen JO, et al. **J Cardiovasc Risk** 1996 Oct;3(5):427–33

Cardiovascular risk factors and electrographical characteristics and abnormalities in middle-aged males. Lind L, et al. **J Intern Med** 1997 Feb;241(2):109–13

Clinical features in persons with a family history of diabetes compared to controls (The Second Generation Fredericia Study). Vestbo E, et al. **J Intern Med** 1996 Dec; 240(6):381–7

Transgenic animal models: new avenues in cardiovascular physiology. Franz WM, et al. **J Mol Med** 1997 Feb; 75(2):115–29

Assessment of cerebrovascular reactivity by dynamic susceptibility contrast-enhanced MR imaging. Nighoghossian N, et al. **J Neurol Sci** 1997 Aug;149(2):171–6

Cardiovascular disease and sleep-related erections [see comments] Rosen RC, et al. **J Psychosom Res** 1997 Jun; 42(6):517–30 (25 ref.). Comment in: J Psychosom Res 1997 Jun;42(6):515–6.

Endothelium, for example. Henderson A. **J R Coll Physicians Lond** 1996 Jan–Feb;30(1):42–51 (100 ref.)

Molecular pharmacology and pathophysiological significance of endothelin. Goto K, et al. **Jpn J Pharmacol** 1996 Dec; 72(4):261–90 (285 ref.)

Pulse wave velocity as a marker of vascular disease [letter] Cameron J, et al. **Lancet** 1996 Dec 7;348(9041):1586–7

Pulse wave velocity as a marker of vascular disease [letter] Martyn CN, et al. **Lancet** 1996 Dec 7;348(9041):1586; discussion 1587

Estimation of VO2 in older individuals with osteoarthritis of the knee and cardiovascular disease. Berry MJ, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):808–14

The internist and the vessel wall. Lüscher TF. **Neth J Med** 1997 May;50(5):204–10 (3 ref.)

Hemodynamic instability after carotid endarterectomy: risk factors and associations with operative complications. Wong JH, et al. **Neurosurgery** 1997 Jul;41(1):35–41; discussion 41–3

Biological chemistry of thiols in the vasculature and in vascular-related disease. Stamler JS, et al. **Nutr Rev** 1996 Jan;54(1 Pt 1):1–30 (268 ref.)

Aging of the cardiovascular system. Hauss W, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):312–20 **(Eng, Fre)**

The endothelin system and its potential as a therapeutic target in cardiovascular disease. Gray GA, et al. **Pharmacol Ther** 1996;72(2):109–48 (430 ref.)

Progress in cardiovascular diseases: introduction. Brutsaert DL, et al. **Prog Cardiovasc Dis** 1997 Jan–Feb;39(4):285

Vascular endothelial dysfunction. De Meyer GR, et al. **Prog Cardiovasc Dis** 1997 Jan–Feb;39(4):325–42 (187 ref.)

Endothelial dysfunction: clinical implications. Drexler H. **Prog Cardiovasc Dis** 1997 Jan–Feb;39(4):287–324 (288 ref.)

Adrenal androgens, insulin resistance, and cardiovascular disease. Casson PR, et al. **Semin Reprod Endocrinol** 1996 Feb;14(1):29–34 (54 ref.)

Role of nitric oxide in a nonseptic shock model induced by zymosan in the rat. Cuzzocrea S, et al. **Shock** 1997 May; 7(5):351–7

GPIIb/IIIa antagonists: pathophysiologic and therapeutic insights from studies of c7E3 Fab. Coller BS. **Thromb Haemost** 1997 Jul;78(1):730–5 (42 ref.)

[Endothelial dysfunction and nitrogen monoxide (NO; nitric oxide)] Lüscher TF, et al. **Internist (Berl)** 1997 May; 38(5):411–9 (57 ref.) **(Ger)**

[Endothelial receptor antagonists] Bornkessel B. **Med Monatsschr Pharm** 1997 Jul;20(7):174–6 (3 ref.) **(Ger)**

[Endothelins] Bornkessel B. **Med Monatsschr Pharm** 1996 Mar;19(3):66–8 (2 ref.) **(Ger)**

[Endothelins in cardiovascular diseases] Kähler J, et al. **Z Kardiol** 1997 Jun;86(6):406–16 (72 ref.) (Eng. Abstr.) **(Ger)**

[A query system for the "SINTESI" database in scientific research and medical practice] Palmieri V, et al. **Cardiologia** 1997 May;42(5):519–24 (Eng. Abstr.) **(Ita)**

[New aspects in the evaluation of cardiologic fitness in sport activities. From the Bethesda Conference in 1994 to the Italian COCIS in 1996. Cardiologic Organizational Committee for Cardiovascular Fitness in Sport] Naccarella F, et al. **G Ital Cardiol** 1996 Dec;26(12):1507–39 (296 ref.) **(Ita)**

[The effect of the noise factor on patients with cardiovascular diseases at a sanatorium] Svidovyĭ VI, et al. **Gig Sanit** 1997 Mar–Apr;(2):43–5 **(Rus)**

[The role of nitric oxide in cardiology and gastroenterology] Zhuravleva IA, et al. **Klin Med (Mosk)** 1997;75(4):18–21 (33 ref.) **(Rus)**

[Heart and eye (editorial; comment)] Andreu Andreu D. **Med Clin (Barc)** 1997 Mar 1;108(8):299–300. Comment on: Med Clin (Barc) 1997 Mar 1;108(8):281–5. **(Spa)**

PREVENTION & CONTROL

Cardiovascular disease risk factors and dental caries in adolescents: effect of a preventive program in Northern Sweden (the Norsjö project). Larsson B, et al. **Acta Paediatr** 1997 Jan;86(1):63–71

177 cardiovascular risk factors, classified in 10 categories, to be considered in the prevention of cardiovascular diseases: an update of the original 1982 article containing 96 risk factors. Omura Y, et al. **Acupunct Electrother Res** 1996 Jan–Mar;21(1):21–76 (405 ref.)

Is taurine a preventive nutritional factor of cardiovascular diseases or just a biological marker of nutrition? Yamori Y, et al. **Adv Exp Med Biol** 1996;403:623–9 (26 ref.)

Comparison of risk profiles for cardiovascular events: implications for prevention. Kannel WB, et al. **Adv Intern Med** 1997;42:39–66 (66 ref.)

Can cardiovascular complications be prevented in dialysis patients? Raine AE. **Adv Nephrol Necker Hosp** 1996; 25:317–39 (103 ref.)

Putting preventive cardiology into practice [editorial] Siwek J. **Am Fam Physician** 1997 Feb 1;55(2):436–7

Cardiovascular screening and emergency procedures at health clubs and fitness centers. McInnis KJ, et al. **Am J Cardiol** 1997 Aug 1;80(3):380–3

Do the n-3 fatty acids from fish prevent deaths from cardiovascular disease? [editorial; comment] Connor WE. **Am J Clin Nutr** 1997 Jul;66(1):188–9. Comment on: Am J Clin Nutr 1997 Jul;66(1):89–96.

Why are large legs protective? [letter; comment] Kahn HS. **Am J Clin Nutr** 1997 Sep;66(3):712–3. Comment on: Am J Clin Nutr 1997 Mar;65(3):855–60.

Efficacy of multiple dietary therapies in reducing cardiovascular disease risk factors [editorial; comment] Kris-Etherton PM, et al. **Am J Clin Nutr** 1997 Feb; 65(2):560–1. Comment on: Am J Clin Nutr 1997 Feb;65(2):445–50.

Dietary compliance and cardiovascular risk reduction with a prepared meal plan compared with a self-selected diet [see comments] Metz JA, et al. **Am J Clin Nutr** 1997 Aug; 66(2):373–85. Comment in: Am J Clin Nutr 1997 Aug;66(2):421–2.

Exercise intensity and subclinical cardiovascular disease in the elderly. The Cardiovascular Health Study. Siscovick DS, et al. **Am J Epidemiol** 1997 Jun 1;145(11):977–86

The challenge of managing multiple cardiovascular risk factors. Kaplan NM. **Am J Hypertens** 1997 Jul;10(7 Pt 2):167S–169S (7 ref.)

Identification and management of risk in patients with coronary and other vascular disease. Proceedings of a symposium. Chicago, Illinois, April 17, 1996. **Am J Med** 1996 Oct 8;101(4A):4A1S–83S

Identification and management of risk in patients with coronary and other vascular disease. Closing statement. Bonow RO, et al. **Am J Med** 1996 Oct 8; 101(4A):4A82S–83S

Managing multiple risk factors: a call to action. Noble J, et al. **Am J Med** 1996 Oct 8;101(4A):4A79S–80S; discussion 4A80S–81S

Identification and management of risk in patients with coronary and other vascular disease. Guest commentary. Smith SC Jr. **Am J Med** 1996 Oct 8;101(4A):4A3S–5S

Reduction of urinary tract and cardiovascular defects by periconceptional multivitamin supplementation. Czeizel AE. **Am J Med Genet** 1996 Mar 15;62(2):179–83

Can dietary interventions change diet and cardiovascular risk factors? A meta-analysis of randomized controlled trials. Brunner E, et al. **Am J Public Health** 1997 Sep; 87(9):1415–22

Could salicylates in food have contributed to the decline in cardiovascular disease mortality? A new hypothesis. Ingster LM, et al. **Am J Public Health** 1997 Sep;87(9):1554–7 (27 ref.)

The long-term effects of a cardiovascular disease prevention trial: the Stanford Five-City Project [see comments] Winkleby MA, et al. **Am J Public Health** 1996 Dec; 86(12):1773–9. Comment in: Am J Public Health 1996 Dec;86(12):1696–8.

Effect of antihypertensive drug treatment on cardiovascular outcomes in women and men. A meta-analysis of individual patient data from randomized, controlled trials. The INDANA Investigators. Gueyffier F, et al. **Ann Intern Med** 1997 May 15;126(10):761–7

Twenty-year dynamics of serum cholesterol levels in the middle-aged population of eastern Finland. Jousilahti P, et al. **Ann Intern Med** 1996 Nov 1;125(9):713–22

The UK Prospective Diabetes Study. UK Prospective Diabetes Study Group. Turner RC, et al. **Ann Med** 1996 Oct;28(5):439–44

Physical activity and teenage health. A program to improve cardiovascular fitness, health behavior, and coronary disease risk factors in multiethnic teenagers. Fardy PS, et al. **Ann N Y Acad Sci** 1997 May 28;817:356–8

School-based programs for health-risk reduction. Nicklas TA, et al. **Ann N Y Acad Sci** 1997 May 28;817:208–24 (37 ref.)

Modifiable high-risk behaviors for cardiovascular disease among family physicians in the United States. A national Survey. LeBlanc KE, et al. **Arch Fam Med** 1997 May-Jun; 6(3):246–50

An examination of the effect of combined cyclical hormone replacement therapy on lipoprotein(a) and other lipoproteins. Haines CJ, et al. **Atherosclerosis** 1996 Jan 26; 119(2):215–22

Alcohol and survival in the elderly: the Dubbo Study [letter; comment] Emder P. **Aust N Z J Med** 1997 Apr;27(2):185 . Comment on: Aust N Z J Med 1996 Oct;26(5):662–70.

Chronic renal disease and cardiovascular complications: inevitable or preventable? Now is the time for some intervention studies [editorial] Irish AB, et al. **Aust N Z J Med** 1997 Jun;27(3):273–4

Educational and environmental interventions for cardiovascular health promotion in socially disadvantaged primary schools. Gore CJ, et al. **Aust N Z J Public Health** 1996 Apr;20(2):188–94

Changes in the public perceptions of the health benefits of alcohol use, 1989 to 1994. Hall W. **Aust N Z J Public Health** 1996 Feb;20(1):93–5

Effects of hormones on the plasma levels of the atherogenic amino acid homocysteine. Lien EA, et al. **Biochem Soc Trans** 1997 Feb;25(1):33–5 (19 ref.)

Prospects for the production and use of new improved dietary oestrogens for cardioprotection. Ridgway TJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):59–63 (28 ref.)

Oestrogens: molecular mechanisms of cardioprotection. Wiseman H. **Biochem Soc Trans** 1997 Feb;25(1):31–2 (13 ref.)

Effect of chromium nicotinic acid supplementation on selected cardiovascular disease risk factors. Thomas VL, et al. **Biol Trace Elem Res** 1996 Dec;55(3):297–305

Impact of postmenopausal hormone therapy on cardiovascular events and cancer. Inclusion of one particular study was inappropriate [letter] al-Azzawi F, et al. **BMJ** 1997 Sep 13;315(7109):677–8

Impact of postmenopausal hormone therapy on cardiovascular events and cancer. Study's conclusions were incorrect [letter] Col NF, et al. **BMJ** 1997 Sep 13; 315(7109):678; discussion 678–9

Vitamin E and cardiovascular protection in diabetes [editorial] Gazis A, et al. **BMJ** 1997 Jun 28; 314(7098):1845–6

Impact of postmenopausal hormone therapy on cardiovascular events and cancer: pooled data from clinical trials. Hemminki E, et al. **BMJ** 1997 Jul 19; 315(7101):149–53

Impact of postmenopausal hormone therapy on cardiovascular events and cancer. Paper's main conclusion is no longer justified when data from all trials are considered [letter] Seagroatt V. **BMJ** 1997 Sep 13; 315(7109):677; discussion 678–9

Impact of postmenopausal hormone therapy on cardiovascular events and cancer. Search for studies was limited [letter] Shah S, et al. **BMJ** 1997 Sep 13; 315(7109):676–7; discussion 678–9

Impact of postmenopausal hormone therapy on cardiovascular events and cancer. Combining thromboembolic events with cardiovascular events does not support odds ratio of 0.7 [letter] Sundkvist T. **BMJ** 1997 Sep 13;315(7109):677

Prevention of cardiovascular response to tracheal intubation [letter; comment] Mallick A, et al. **Br J Anaesth** 1996 Aug; 77(2):296–7. Comment on: Br J Anaesth 1996 Feb;76(2):221–6.

Is hormone replacement therapy prescribed for postmenopausal diabetic women? Feher MD, et al. **Br J Clin Pract** 1996 Dec;50(8):431–2

The risk of cardiovascular disease in hypertensive patients [letter; comment] [see comments] Barton S, et al. **Br J Gen Pract** 1997 Mar;47(416):182. Comment on: Br J Gen Pract 1996 Nov;46(412):655–9. Comment in: Br J Gen Pract 1997 Jun;47(419):405–6. Comment in: Br J Gen Pract 1997 Jul;47(420):465.

A general practice-based study examining the absolute risk of cardiovascular disease in treated hypertensive patients [see comments] Fahey TP, et al. **Br J Gen Pract** 1996 Nov; 46(412):655–9. Comment in: Br J Gen Pract 1997 Mar;47(416):182.

Missed opportunities for the prevention of cardiovascular disease among British hypertensives in primary care [see comments] Foss FA, et al. **Br J Gen Pract** 1996 Oct; 46(411):571–5. Comment in: Br J Gen Pract 1997 Feb;47(415):123–4.

Aspirin use in middle-aged men with cardiovascular disease: are opportunities being missed? McCallum AK, et al. **Br J Gen Pract** 1997 Jul;47(420):417–21

The psychological impact of cardiovascular screening and intervention in primary care: a problem of false reassurance? British Family Heart Study Group [see comments] Marteau TM, et al. **Br J Gen Pract** 1996 Oct; 46(411):577–82. Comment in: Br J Gen Pract 1996 Oct;46(411):567–8.

Who needs antiplatelet therapy? [see comments] Moher M, et al. **Br J Gen Pract** 1996 Jun;46(407):367–70 (24 ref.). Comment in: Br J Gen Pract 1996 Aug;46(409):494–5.

Antiplatelet therapy [comment] Wood SF. **Br J Gen Pract** 1996 Aug;46(409):494–5. Comment on: Br J Gen Pract 1996 Jun;46(407):367–70.

Cardiovascular forum. A Ciba symposium. Heidelberg, Germany, 3–5 October 1996. Proceedings. **Br J Hosp Med** 1996 Nov 20–Dec 10;56(10):542–7

Has the tea been ruined? [editorial; comment] Kohlmeier L. **Br J Nutr** 1997 Jul;78(1):1–3. Comment on: Br J Nutr 1997 Jul;78(1):41–55.

Diet and haemostasis: time for nutrition science to get more involved. Vorster HH, et al. **Br J Nutr** 1997 May; 77(5):671–84 (103 ref.)

Cardiovascular risk management among 1806 low risk patients in a primary care setting. Clinical Quality Improvement Network (CQIN) Investigators. **Can J Cardiol** 1996 Sep;12(9):797–801

New dietary strategies for the prevention and management of cardiovascular disease. Proceedings. London, Ontario, Canada, June 20, 1996. **Can J Physiol Pharmacol** 1997 Mar; 75(3):165–239

Omega-3 fatty acids in the prevention-management of cardiovascular disease. Simopoulos AP. **Can J Physiol Pharmacol** 1997 Mar;75(3):234–9 (50 ref.)

The Canadian Heart Health Initiative: dissemination perspectives. Stachenko S. **Can J Public Health** 1996 Nov-Dec;87 Suppl 2:S57–9

Risk profiles and cardiovascular preparticipation screening of competitive athletes. Maron BJ. **Cardiol Clin** 1997 Aug; 15(3):473–83 (75 ref.)

Cardiovascular research: an NIH perspective [editorial] Lenfant C. **Cardiovasc Surg** 1997 Feb;5(1):4–5

"Know and improve your health": symbiosis of preventive project and preventive medicine education at the medical faculty in Brno. Fiala J, et al. **Cent Eur J Public Health** 1996 Dec;4(4):257–62

"Healthy Dubec" –design of a joint Czech-American community project for the reduction of cardiovascular and cerebrovascular disease (adapted from American experience). Komarek L, et al. **Cent Eur J Public Health** 1995 Nov;3(4):230–3

Estrogen therapy, atherosclerosis, and clinical cardiovascular events [editorial; comment] Anderson HV. **Circulation** 1996 Oct 15;94(8):1809–11. Comment on: Circulation 1996 Oct 15;94(8):1857–63.

How to implement physical activity in primary and secondary prevention. A statement for healthcare-professionals from the Task Force on Risk-reduction, American Heart Association. Fletcher GF. **Circulation** 1997 Jul 1;96(1):355–7

Guide to primary prevention of cardiovascular diseases. A statement for healthcare professionals from the Task Force on Risk Reduction. American Heart Association Science Advisory and Coordinating Committee. Grundy SM, et al. **Circulation** 1997 May 6;95(9):2329–31

Major benefit from antiplatelet therapy for patients at high risk for adverse cardiac events after coronary Palmaz-Schatz stent placement: analysis of a prospective risk stratification protocol in the Intracoronary Stenting and Antithrombotic Regimen (ISAR) trial. Schühlen H, et al. **Circulation** 1997 Apr 15;95(8):2015–21

Risk-reduction therapy: the challenge to change. Presented at the 68th scientific sessions of the American Heart Association November 13, 1995 Anaheim, California. Smith SC Jr. **Circulation** 1996 Jun 15;93(12):2205–11

Preventive cardiology: whose job is it? Who will pay for it? What is the best strategy? Levy D, et al. **Cleve Clin J Med** 1996 Sep;63(5):275–9

Hormone replacement therapy is associated with improved arterial physiology in healthy post-menopausal women. McCrohon JA, et al. **Clin Endocrinol (Oxf)** 1996 Oct; 45(4):435–41

Australian comparative outcome trial of angiotensin-converting enzyme inhibitor- and diuretic-based treatment of hypertension in the elderly (ANBP2): objectives and protocol. Management Committee on behalf of the High Blood Pressure Research Council of Australia. **Clin Exp Pharmacol Physiol** 1997 Feb; 24(2):188–92

Lipid modifying agents: mechanisms of action and reduction

of cardiovascular disease. Scott R.
Clin Exp Pharmacol Physiol 1997 May;24(5):A26–8 (27 ref.)
Prevention. **Curr Opin Cardiol** 1997 Mar;12(2):B65–6
Preventive cardiology in the elderly. Wenger NK.
Curr Opin Cardiol 1997 Mar;12(2):195–201 (39 ref.)
Hyperlipidaemia and cardiovascular disease [editorial] Blum C. **Curr Opin Lipidol** 1996 Apr;7(2):U57–64
The beneficial effects of omega-3 fatty acids: cardiovascular disease and neurodevelopment [editorial] Connor WE.
Curr Opin Lipidol 1997 Feb;8(1):1–3 (29 ref.)
Lipids, lipoproteins, obesity and the cardiovascular risk, what is new and what has been left aside [editorial] Sirtori CR, et al. **Curr Opin Lipidol** 1997 Aug;8(4):197–9
The menopause and lipid metabolism: strategies for cardiovascular disease prevention. Soma MR, et al.
Curr Opin Lipidol 1997 Aug;8(4):229–35 (52 ref.)
Prevention and management of cardiovascular disease in patients with diabetes mellitus: an evidence base. Yudkin JS, et al. **Diabet Med** 1996 Sep;13(9 Suppl 4):S101–21 (116 ref.)
Rationale and design of a large study to evaluate the renal and cardiovascular effects of an ACE inhibitor and vitamin E in high-risk patients with diabetes. The MICRO-HOPE Study. Microalbuminuria, cardiovascular, and renal outcomes. Heart Outcomes Prevention Evaluation. Gerstein HC, et al. **Diabetes Care** 1996 Nov;19(11):1225–8
Community-based epidemiologic study on atherosclerotic cardiovascular risk factors. Park Y, et al.
Diabetes Res Clin Pract 1996 Oct;34 Suppl:S65–72
Prevention of vascular events in diabetes mellitus: which "antithrombotic" therapy? [comment] [see comments] Ceriello A, et al. **Diabetologia** 1996 Nov;39(11):1405–6. Comment on: Diabetologia 1996 Nov;39(11):1402–4. Comment in: Diabetologia 1996 Nov;39(11):1407–8.
Diabetes mellitus and peripheral vascular disease: is aspirin effective in preventing vascular events? [see comments] Cimminiello C, et al. **Diabetologia** 1996 Nov;39(11):1402–4 (26 ref.). Comment in: Diabetologia 1996 Nov;39(11):1405–6. Comment in: Diabetologia 1996 Nov;39(11):1407–8.
The DIAB-HYCAR Study. Passa P, et al. **Diabetologia** 1996 Dec;39(12):1662–7
Assessing the evidence on aspirin in diabetes mellitus. Gemini or Libra; lumping or splitting; surrogate or hard; low or high; interventionist or nihilist [comment] Yudkin JS. **Diabetologia** 1996 Nov;39(11):1407–8. Comment on: Diabetologia 1996 Nov;39(11):1402–4. Comment on: Diabetologia 1996 Nov;39(11):1405–6.
How do calcium channel blockers prevent cardiovascular events. Are they all alike? Bogaert MG. **Drugs** 1996;52 Suppl 4:3–7; discussion 7–8 (17 ref.)
Management of lipid disorders in the elderly. Playford DA, et al. **Drugs Aging** 1997 Jun;10(6):444–62 (146 ref.)
The association between fruit and vegetable intake and chronic disease risk factors. Serdula MK, et al.
Epidemiology 1996 Mar;7(2):161–5
Changes in cardiovascular disease knowledge and behavior in a low-education population of African-American and white adults. Smith NL, et al. **Ethn Dis** 1996 Autumn; 6(3–4):244–54
Antioxidant vitamins and cardiovascular disease: current perspectives and future directions [editorial] Hennekens CH. **Eur Heart J** 1997 Feb;18(2):177–9
Antioxidant vitamins in the prevention of cardiovascular disease. The epidemiological evidence. Price JE, et al.
Eur Heart J 1997 May;18(5):719–27 (59 ref.)
Nutrition promotion and dietary change at off-shore oil installations in the Norwegian sector of the North Sea. Oshaug A, et al. **Eur J Clin Nutr** 1995 Dec;49(12):883–96
Epidemiological evidence for beta-carotene in prevention of cancer and cardiovascular disease. van Poppel G.
Eur J Clin Nutr 1996 Jul;50 Suppl 3:S57–61 (33 ref.)
Hormone replacement therapy and cardioprotection: basic concepts and clinical considerations. Pines A, et al.
Eur J Obstet Gynecol Reprod Biol 1997 Feb;71(2):193–7 (42 ref.)
Medical cardiovascular treatment trials: relevant to medical ophthalmology in 1997? Dodson PM, et al. **Eye** 1997;11 (Pt 1):3–11 (70 ref.)
Prevention in practice: results of a 2-year follow-up of routine health promotion interventions in general practice. Dowell AC, et al. **Fam Pract** 1996 Aug;13(4):357–62
The effect of sequential three-monthly hormone replacement therapy on several cardiovascular risk estimators in postmenopausal women. van der Mooren MJ, et al.
Fertil Steril 1997 Jan;67(1):67–73
The Leon Golberg Memorial Lecture. Antioxidants and disease prevention. Diplock AT. **Food Chem Toxicol** 1996 Oct;34(10):1013–20 (33 ref.)
Fractionated infusions of cryopreserved stem cells may prevent DMSO-induced major cardiac complications in graft recipients. Martino M, et al. **Haematologica** 1996 Jan–Feb;81(1):59–61
Effects of the Stanford Five-City Project Media Advocacy Program. Schooler C, et al. **Health Educ Q** 1996 Aug; 23(3):346–64
Is blood donation good for the donor? Ford I. **Heart** 1997 Aug;78(2):107
Possible association of a reduction in cardiovascular events with blood donation. Meyers DG, et al. **Heart** 1997 Aug; 78(2):188–93
Is it time to say yes to antioxidants? Kuritzky L.
Hosp Pract (Off Ed) 1996 Sep 15;31(9):96, 99–100 (12 ref.)
Cancer risk following a community-based programme to prevent cardiovascular diseases. Luostarinen T, et al.
Int J Epidemiol 1995 Dec;24(6):1094–9
Fruit and vegetables, and cardiovascular disease: a review. Ness AR, et al. **Int J Epidemiol** 1997 Feb;26(1):1–13 (63 ref.)
Waist circumference reduction and cardiovascular benefits during weight loss in women. Han TS, et al.
Int J Obes Relat Metab Disord 1997 Feb;21(2):127–34
Effect of a mediterranean type of diet on the rate of cardiovascular complications in patients with coronary artery disease. Insights into the cardioprotective effect of certain nutriments [see comments] De Lorgeril M, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1103–8. Comment in: J Am Coll Cardiol 1996 Nov 1;28(5):1109–10.
Cardiovascular disease risk factors in black college students. Kelley GA, et al. **J Am Coll Health** 1997 Jan;45(4):165–9
The future of cardiovascular medicine. An opportunity for prevention and rehabilitation. Greenland P.
J Cardiopulm Rehabil 1996 Jul–Aug;16(4):219–25 (34 ref.)
Adherence to medication, diet, and activity recommendations: from assessment to maintenance. Burke LE, et al. **J Cardiovasc Nurs** 1995 Jan;9(2):62–79 (97 ref.)
Cultural consideration in promoting wellness. Keller CS, et al. **J Cardiovasc Nurs** 1997 Apr;11(3):15–25 (54 ref.)
Mind-body fitness: encouraging prospects for primary and secondary prevention. La Forge R. **J Cardiovasc Nurs** 1997 Apr;11(3):53–65 (55 ref.)
Individual and community models for promoting wellness. Murdaugh CL, et al. **J Cardiovasc Nurs** 1997 Apr; 11(3):1–14
Cardiovascular risk factors in homeless adults. Ober K, et al. **J Cardiovasc Nurs** 1997 Jul;11(4):50–9 (14 ref.)
Detection and prevention of cardiac risk factors: health risk assessment and targeted follow-up in a managed care population [see comments] Zimmerman EM, et al.
J Cardiovasc Nurs 1996 Oct;11(1):27–38. Comment in: J Cardiovasc Nurs 1996 Oct;11(1):v–vii.
Cardioprotective and hypolipidemic effects of nisoldipine in the JCR:LA-cp rat. Russell JC, et al.
J Cardiovasc Pharmacol 1997 May;29(5):586–92
A randomized trial of cardiovascular risk factor reduction: patterns of attrition after randomization and during follow-up. McCann TJ, et al. **J Cardiovasc Risk** 1997 Feb; 4(1):41–6
Cardiovascular disease prevention and the NHS reforms. Mant J, et al. **J Cardiovasc Risk** 1996 Oct;3(5):435–9
The effect of antioxidant vitamin supplementation on traditional cardiovascular risk factors. Miller ER 3rd, et al. **J Cardiovasc Risk** 1997 Feb;4(1):19–24
Vitamin C and cardiovascular disease: a systematic review. Ness AR, et al. **J Cardiovasc Risk** 1996 Dec;3(6):513–21 (63 ref.)
Screening for smokers in four Sydney teaching hospitals. Richmond RL, et al. **J Cardiovasc Risk** 1996 Apr; 3(2):199–203
Anti-platelet effects of 100 mg alternate day oral aspirin: a randomized, double-blind, placebo-controlled trial of regular and enteric coated formulations in men and women. Ridker PM, et al. **J Cardiovasc Risk** 1996 Apr;3(2):209–12
Young children's cardiovascular stress responses predict resting cardiovascular functioning 2 1/2 years later. Treiber FA, et al. **J Cardiovasc Risk** 1996 Feb;3(1):95–100
Hormone replacement therapy and major risk factors for reproductive cancers, osteoporosis, and cardiovascular diseases: evidence of confounding by exposure characteristics. Persson I, et al. **J Clin Epidemiol** 1997 May; 50(5):611–8
Joint analysis of three U.S. community intervention trials for reduction of cardiovascular disease risk. Winkleby MA, et al. **J Clin Epidemiol** 1997 Jun;50(6):645–58
Regular exercise in 30- to 60-year-old men: combining the stages-of-change model and the theory of planned behavior to identify determinants for targeting heart health interventions. Nguyen MN, et al. **J Community Health** 1997 Aug;22(4):233–46
Relationships between smoking habits and other behavior factors among males: from the results of the 1990 National Cardiovascular Survey in Japan. Nakamura Y, et al.
J Epidemiol 1996 Jun;6(2):87–91
Postmenopausal hormone therapy and cardiovascular risk. VandeKieft G. **J Fam Pract** 1996 Nov;43(5):437–8
Issues of the Heart: Prevention, Management and Control of Cardiovascular Risk Factors in African Americans. Proceedings of a conference. Nashville, Tennessee, October 1996. **J Health Care Poor Underserved** 1997 Aug; 8(3):247–387
Cardiovascular risk factor screening and intervention in African American adults. Anderson JT, et al.
J Health Care Poor Underserved 1997 Aug;8(3):322–44
Lessons learned from the Healthy Heart Community Prevention Project in reaching the African American population. Ferdinand KC.
J Health Care Poor Underserved 1997 Aug;8(3):366–71; discussion 371–2
Cardiovascular implications of smoking: the surgeon general's point of view. Manley AF.
J Health Care Poor Underserved 1997 Aug;8(3):303–10 (15 ref.)
Strategies for prevention of adult hypertension and cardiovascular risk behaviour in childhood. An Australian perspective. Beilin L, et al. **J Hum Hypertens** 1996 Feb; 10 Suppl 1:S51–4
Treatment and prevention of target organ damage. Padmavati S. **J Hum Hypertens** 1996 Feb;10 Suppl 1:S85–7 (10 ref.)
The Canadian Heart Health Initiative: a countrywide cardiovascular disease prevention strategy. Stachenko S.
J Hum Hypertens 1996 Feb;10 Suppl 1:S5–8
From vascular protection to secondary prevention in cardiovascular diseases. Proceedings of satellite symposium to the 16th Scientific Meeting of the International Society of Hypertension. Glasgow, United Kingdom, 23 June 1996.
J Hypertens Suppl 1996 Dec;14(6):S1–53
Primary prevention of cardiovascular disease: implications of lipid-lowering trials. Pedersen TR.
J Hypertens Suppl 1996 Dec;14(5):S195–200 (47 ref.)
Effects of smoking cessation on insulin and cardiovascular risk factors--a controlled study of 4 months' duration. Nilsson P, et al. **J Intern Med** 1996 Oct;240(4):189–94
Update on American Heart Association education and information initiatives. O'Neal TB, et al.
J La State Med Soc 1997 May;149(5):172–4
Is there any evidence for a protective effect of antithrombotic medication on cognitive function in men at risk of cardiovascular disease? Some preliminary findings. Richards M, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):269–72
Menopause and cardiovascular disease. van der Graaf Y, et al. **J Psychosom Obstet Gynaecol** 1997 Jun;18(2):113–20 (49 ref.)
The development and prevention of cardiovascular disease risk factors: socioenvironmental influences. Terris M.
J Public Health Policy 1996;17(4):426–41
The Youth Health Survey: reliability and validity of an instrument for assessing cardiovascular health habits in adolescents. Gilmer MJ, et al. **J Sch Health** 1996 Mar; 66(3):106–11
Effect of diuretic-based antihypertensive treatment on cardiovascular disease risk in older diabetic patients with isolated systolic hypertension. Systolic Hypertension in the Elderly Program Cooperative Research Group [published erratum appears in JAMA 1997 May 7;277(17):1356] [see comments] Curb JD, et al. **JAMA** 1996 Dec 18; 276(23):1886–92. Comment in: ACP J Club 1997 May–Jun;126(3):57.
Primary prevention of cardiovascular disease endpoints using beta-blockers [letter; comment] Michalewiz L, et al.
JAMA 1997 Jun 11;277(22):1759–60. Comment on: JAMA 1997 Mar 5;277(9):739–45.
Evidence for more benefits of cholesterol-lowering drugs [news] Skolnick AA. **JAMA** 1997 Oct 1;278(13):1053
High dose-B-vitamin treatment of hyperhomocysteinemia in dialysis patients. Bostom AG, et al. **Kidney Int** 1996 Jan; 49(1):147–52
Garlic for flavour, not cardioprotection [see comments] Beaglehole R. **Lancet** 1996 Nov 2;348(9036):1186–7. Comment in: Lancet 1997 Jan 11;349(9045):131. Comment in: Lancet 1997 Jan 11;349(9045):131–2.
The impact of cardiovascular disease on people with diabetes: the potential for prevention. Eastman RC, et al. **Lancet** 1997 Jul;350 Suppl 1:SI29–32 (29 ref.)
Cardioprotection and garlic [letter; comment] Myers SP, et al. **Lancet** 1997 Jan 11;349(9045):131–2. Comment on: Lancet 1996 Nov 2;348(9036):1186–7.
Cardiovascular disease prevention in postmenopausal women: a clinician's perspective [editorial] Davis S. **Maturitas** 1997 May;27(1):1–3
Guidelines for perioperative cardiovascular evaluation for noncardiac surgery: an abridged version of the report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines [see comments] Eagle KA, et al. **Mayo Clin Proc** 1997 Jun; 72(6):524–31. Comment in: Mayo Clin Proc 1997 Jun;72(6):583–4.
Patient-physician agreement about medical diagnoses and cardiovascular risk factors in the ambulatory general medical examination [see comments] Scheitel SM, et al. **Mayo Clin Proc** 1996 Dec;71(12):1131–7. Comment in: Mayo Clin Proc 1996 Dec;71(12):1209–10.
Perioperative assessment of patients undergoing noncardiac surgery [editorial; comment] Wood DL.
Mayo Clin Proc 1997 Jun;72(6):583–4. Comment on: Mayo Clin Proc 1997 Jun;72(6):524–31.
Fish oil may be an antidote for the cardiovascular risk of smoking. McCarty MF. **Med Hypotheses** 1996 Apr; 46(4):337–47 (166 ref.)
Postmenopausal hormone replacement therapy and cardiovascular disease risk. Freedman M.
Med Sci Sports Exerc 1996 Jan;28(1):17–8
Age-related decreases in chromium levels in 51,665 hair, sweat, and serum samples from 40,872 patients--implications for the prevention of cardiovascular disease and type II diabetes mellitus. Davies S, et al.
Metabolism 1997 May;46(5):469–73
Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Cahill MR, et al. **N Engl J Med** 1997 Aug 7;337(6):422–3; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9.
Inflammation, aspirin, and the risk of cardiovascular disease [letter; comment] Murray WM. **N Engl J Med** 1997 Aug 7;337(6):422; discussion 423–4. Comment on: N Engl J Med 1997 Apr 3;336(14):973–9. Comment on: N Engl J Med 1997 Apr 3;336(14):1014–6.

Estrogens, progestins and coronary artery reactivity [news; comment] Williams JK, et al. **Nat Med** 1997 Mar;3(3):273–4 . Comment on: Nat Med 1997 Mar;3(3):324–7.

Acute on chronic renal failure induced by simvastatin. Gorrie MJ, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2328–9

Combined cardiovascular risk factor intervention: a bridge between primary and secondary prevention? [editorial; comment] Smit AJ. **Neth J Med** 1996 Apr;48(4):125–7. Comment on: Neth J Med 1996 Apr;48(4):150–62.

Selegiline diminishes cardiovascular autonomic responses in Parkinson's disease. Turkka J, et al. **Neurology** 1997 Mar; 48(3):662–7

Physical activity and cardiovascular health. **NIH Consens Statement** 1995 Dec 18–20;13(3):1–33 (71 ref.)

Whole-grain consumption and chronic disease: protective mechanisms. Slavin J, et al. **Nutr Cancer** 1997;27(1):14–21 (73 ref.)

Prevalence of risk factors for cardiovascular diseases among men and women in an Arab Gulf community. Musaiger AO, et al. **Nutr Health** 1997;11(3):149–57

A dietary intervention trial for nutritional management of cardiovascular risk factors. **Nutr Rev** 1997 Feb;55(2):54–6

Antioxidant vitamins and cardiovascular disease. Buring JE, et al. **Nutr Rev** 1997 Jan;55(1 Pt 2):S53–8; discussion S58–60 (42 ref.)

Antioxidants in cardiovascular disease: randomized trials. Gaziano JM. **Nutr Rev** 1996 Jun;54(6):175–7 (6 ref.)

Nutritional epidemiology: methods and innovations used in a central European community-based program. Albright CL. **Nutrition** 1996 May;12(5):386–7

Antioxidants in cardiovascular disease: randomized trials. Gaziano JM. **Nutrition** 1996 Sep;12(9):583–8 (59 ref.)

Phytoestrogens: possible role in preventing human disease [editorial] Goldin BR, et al. **Nutrition** 1996 Mar;12(3):216–7

Waist circumference as a screening tool for cardiovascular risk factors: evaluation of receiver operating characteristics (ROC). Han TS, et al. **Obes Res** 1996 Nov;4(6):533–47

Sex steroids and the cardiovascular system. Christiansen C. **Osteoporos Int** 1997;7 Suppl 1:S8–11 (30 ref.)

Update on dietary antioxidants and cancer. Gaziano JM, et al. **Pathol Biol (Paris)** 1996 Jan;44(1):42–5 (15 ref.)

Erythropoietin treatment decreases cardiovascular morbidity and mortality in CAPD patients [see comments] Bajo MA, et al. **Perit Dial Int** 1997 Mar–Apr;17(2):129–35. Comment in: Perit Dial Int 1997 Mar–Apr;17(2):117–8.

A closer look at vitamin E. Can this antioxidant prevent chronic diseases? Meydani M, et al. **Postgrad Med** 1997 Aug;102(2):199–201, 206–7 (22 ref.)

HRT and heart disease [editorial] Brady AJ, et al. **Postgrad Med J** 1997 Aug;73(862):465

Special issue: The Multicenter Child and Adolescent Trial for Cardiovascular Health (CATCH): Promoting Cardiovascular Health through Schools. **Prev Med** 1996 Jul–Aug;25(4):377–494

Improving school breakfasts: effects of the CATCH Eat Smart Program on the nutrient content of school breakfasts. Dwyer JT, et al. **Prev Med** 1996 Jul–Aug;25(4):413–22

The effects of the Child and Adolescent Trial for Cardiovascular Health upon psychosocial determinants of diet and physical activity behavior. Edmundson E, et al. **Prev Med** 1996 Jul–Aug;25(4):442–54

Tobacco use measurement, prediction, and intervention in elementary schools in four states: the CATCH Study. Elder JP, et al. **Prev Med** 1996 Jul–Aug;25(4):486–94

Changes in nutrient intakes of elementary school children following a school-based intervention: results from the CATCH Study. Lytle LA, et al. **Prev Med** 1996 Jul–Aug; 25(4):465–77

School physical education: effect of the Child and Adolescent Trial for Cardiovascular Health. McKenzie TL, et al. **Prev Med** 1996 Jul–Aug;25(4):423–31

Vitamin C intake and cardiovascular disease risk factors in persons with non-insulin-dependent diabetes mellitus. From the Insulin Resistance Atherosclerosis Study and the San Luis Valley Diabetes Study. Mayer-Davis EJ, et al. **Prev Med** 1997 May–Jun;26(3):277–83

Community-based surveillance of cardiovascular risk factors in Geneva: methods, resulting distributions, and comparisons with other populations. Morabia A, et al. **Prev Med** 1997 May–Jun;26(3):311–9

The effect of adult participation in a school-based family intervention to improve Children's diet and physical activity: the Child and Adolescent Trial for Cardiovascular Health. Nader PR, et al. **Prev Med** 1996 Jul–Aug; 25(4):455–64

Unapproved use of high-dose combined pills in Japan: a community study on prevalence and health characteristics of the users. Nagata C, et al. **Prev Med** 1997 Jul–Aug; 26(4):565–9

Impact of fat reduction on micronutrient density of children's diets: the CATCH Study. Nicklas TA, et al. **Prev Med** 1996 Jul–Aug;25(4):478–85

Screening school personnel for cardiovascular disease risk factors: short-term impact on behavior and perceived role as promoters of heart health. O'Loughlin J, et al. **Prev Med** 1996 Nov–Dec;25(6):660–7

Changes in the nutrient content of school lunches: results from the CATCH Eat Smart Food service Intervention. Osganian SK, et al. **Prev Med** 1996 Jul–Aug;25(4):400–12

Advances and future directions for school-based health promotion research: commentary on the CATCH intervention Trial. Resnicow K, et al. **Prev Med** 1996 Jul–Aug;25(4):378–83

Operational design and quality control in the CATCH multicenter Trial. Stone EJ, et al. **Prev Med** 1996 Jul–Aug; 25(4):384–99

Cardiovascular risk factors among children after a 2 1/2-year intervention–The CATCH Study. Webber LS, et al. **Prev Med** 1996 Jul–Aug;25(4):432–41

The effects of oral vitamin supplementation on cardiovascular risk factors. Woodside JV, et al. **Proc Nutr Soc** 1997 Mar; 56(1B):479–88 (77 ref.)

Recent nutritional approaches to the prevention and therapy of cardiovascular disease. Kendler BS. **Prog Cardiovasc Nurs** 1997 Summer;12(3):3–23 (200 ref.)

Community panel discussions: from research to community action. Alvarado M, et al. **Public Health Rep** 1996;111 Suppl 2:74–6

Social gradient of CVD risk in Germany before/after unification. Heinemann L, et al. **Rev Environ Health** 1996 Jan–Jun;11(1–2):7–14

Dietary habits in Eastern Germany: changes after reunification and their relation to CHD risk profiles (DRECAN). Jaross W, et al. **Rev Environ Health** 1996 Jan–Jun;11(1–2):27–33

Nutritional behaviour differences in Germany. Thiel C, et al. **Rev Environ Health** 1996 Jan–Jun;11(1–2):35–40

A Romanian contribution to the epidemiology and prevention of cardiovascular diseases. Steinbach M. **Rom J Intern Med** 1996 Jan–Jun;34(1–2):137–48 (108 ref.)

Potential influence of tea consumption on the development of cardiovascular disease [news] **S Afr Med J** 1997 Jun;87 Suppl 3:C185–6

New treatment approach for high blood pressure patients defined as cardioprotective by physicians. **S Afr Med J** 1997 Feb;87 Suppl 1:C60

Results from an intervention programme dealing with cardiovascular risk factors. Experiences from a study of men aged 33–42 in Habo, Sweden. Persson LG, et al. **Scand J Prim Health Care** 1996 Sep;14(3):184–92

Determinants of willingness to pay taxes for a community-based prevention programme. Lindholm LA, et al. **Scand J Soc Med** 1997 Jun;25(2):126–35

Estrogen and cardiovascular dynamics. Beale C, et al. **Semin Reprod Endocrinol** 1996 Feb;14(1):71–7 (53 ref.)

Understanding the variability in the effectiveness of community heart health programs: a meta-analysis. Sellers DE, et al. **Soc Sci Med** 1997 May;44(9):1325–39

Cardiovascular evaluation of the athlete. Issues regarding performance, screening and sudden cardiac death. Franklin BA, et al. **Sports Med** 1997 Aug;24(2):97–119 (139 ref.)

Postmenopausal hormone replacement therapy and cardiovascular disease. Chae CU, et al. **Thromb Haemost** 1997 Jul;78(1):770–80 (181 ref.)

Coagulation factor VII, dietary fat and blood lipids: a review. Mennen LI, et al. **Thromb Haemost** 1996 Oct;76(4):492–9 (92 ref.)

Physical activity in the prevention and management of cardiovascular disease. Birrer RB. **World Rev Nutr Diet** 1997;82:191–209 (45 ref.)

Frontiers in blood pressure measurement, a century after Riva-Rocci. Proceedings of a meeting. Bad Oeynhausen, Germany, January 1996. **Z Kardiol** 1996;85 Suppl 3:III–IV, 1–147

[WHO and its strategy for the prevention of non-transmissible diseases] Nakajima H. **Ann Endocrinol (Paris)** 1996;57(6):459–62 **(Fre)**

[Evaluation of the cardiovascular impact of hormonal replacement therapy in menopausal women] Gaspard UJ. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(7):671–6 (15 ref.) (Eng. Abstr.) **(Fre)**

[How I treat diabetic dyslipemia in the framework of preventing cardiovascular pathology] Berthezène F, et al. **Journ Annu Diabetol Hotel Dieu** 1997;:237–44 (22 ref.) **(Fre)**

[Cardiovascular diseases and their evolution in developing countries] Bertrand E. **Med Trop (Mars)** 1996;56(3 Suppl):6–7 (20 ref.) **(Fre)**

[The heart and travel] Touze JE, et al. **Med Trop (Mars)** 1996;56(3 Suppl):47–9 (12 ref.) **(Fre)**

[Insulin resistance, arterial hypertension and cardiovascular prevention. Therapeutic implications] Chamontin B, et al. **Presse Med** 1997 Apr 26;26(14):671–7 (51 ref.) **(Fre)**

[20 years of cardiovascular epidemiology. The clinician's viewpoint] Bertrand ME. **Rev Epidemiol Sante Publique** 1996 Nov;44(6):556–62 (Eng. Abstr.) **(Fre)**

[Cardiovascular impact of postmenopausal hormone therapy: new data] Gaspard U. **Rev Med Liege** 1997 Apr;52(4):224–9 (21 ref.) **(Fre)**

[Cardiovascular physiopathology of ovarian hormones] de Ziegler D. **Schweiz Rundsch Med Prax** 1997 Jan 28; 86(5):138–44 (25 ref.) (Eng. Abstr.) **(Fre)**

[Antiplatelet agents and cardiovascular prevention] Barry S, et al. **Therapie** 1997 Jan–Feb;52(1):53–8 (Eng. Abstr.) **(Fre)**

[Trends in alcohol consumption and predictors for increased alcohol consumption in former East Germany--analysis of the 1st and 2nd stages of the German Cardiovascular Prevention Study] Bloomfield K, et al. **Gesundheitswesen** 1997 Apr;59(4):283–8 (Eng. Abstr.) **(Ger)**

[Social medicine and epidemiology: significance for conquering illness] Löwel H. **Gesundheitswesen** 1996 Oct; 58 Suppl 3:174–9 **(Ger)**

[Primary prevention of cardiovascular diseases by lowering lipids] Klose G. **Internist (Berl)** 1997 Jun;38(6):615–6 **(Ger)**

[Physical activity prevents cardiovascular diseases. Consensus conference of the National Institute of Health] Bornkessel BB. **Med Monatsschr Pharm** 1997 Mar; 20(3):71–3 (0 ref.) **(Ger)**

[Unattended continuous positive airway pressure titration--clinical relevance and cardiorespiratory risks] Raschke F. **Pneumologie** 1997 Jun;51(6):593–4 **(Ger)**

[Secondary prevention in coronary diseases. Viewpoint of the gynecological endocrinologist] Hänggi W. **Schweiz Rundsch Med Prax** 1997 Jan 28;86(5):145–9 (28 ref.) (Eng. Abstr.) **(Ger)**

[Prevention of cardiovascular diseases in the elderly--what is still useful?] Donat K. **Z Gerontol Geriatr** 1996 Jul–Aug; 29(4):280–94 (96 ref.) (Eng. Abstr.) **(Ger)**

[Chromium--essential trace element for prevention and treatment of diabetes mellitus and cardiovascular diseases] Mirsky N. **Harefuah** 1997 Jan 15;132(2):133–6 (40 ref.) **(Heb)**

[Hormone replacement therapy and cardiovascular risk] Maffei S, et al. **G Ital Cardiol** 1996 Aug;26(8):899–940 (375 ref.) (Eng. Abstr.) **(Ita)**

[Risk factors analysis of cardiovascular diseases. Is the Life Style Assessment useful?] Bye A. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2634–6 (Eng. Abstr.) **(Nor)**

[Computer analysis of life style. A tool for reduction of cardiovascular diseases] Bye A. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2630–3 (Eng. Abstr.) **(Nor)**

[When should we start to drink? (letter)] Foss OP. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1184 **(Nor)**

[Evaluation of dietary changes during a 10 year observation period of the local Pol-MONICA population in Warsaw with regard to risk of cardiovascular diseases] Waśkiewicz A, et al. **Przegl Lek** 1995;52(11):558–61 (Eng. Abstr.) **(Pol)**

[Evaluation of a search for subjects in high risk for cardiovascular disease. An experience of the Heart Week--1993] Martins Benseñor IJ, et al. **Arq Bras Cardiol** 1996 Mar;66(3):139–41 (Eng. Abstr.) **(Por)**

[The main approaches to reducing cardiovascular morbidity and mortality in Russia] Kharchenko VI, et al. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):3–7 (Eng. Abstr.) **(Rus)**

[Marine fish oil in the prevention and treatment of cardiovascular diseases] Samsonov MA, et al. **Vestn Ross Akad Med Nauk** 1996;(12):43–9 (Eng. Abstr.) **(Rus)**

[Pathology of the circulatory system in officers of the Naval Fleet: an analysis of the trends and means for decreasing morbidity] Emel'ianenko VM. **Voen Med Zh** 1997 May; 318(5):54–6 **(Rus)**

[Structure of nutrition of one of Moscow's districts and its relationship to risk factors of chronic noninfectious diseases from the standpoint of medical prevention] Eganian RA, et al. **Vopr Pitan** 1997;(3):3–7 (Eng. Abstr.) **(Rus)**

[Prevention of cardiovascular diseases: the Finnish experience and current situation] Ginter E. **Bratisl Lek Listy** 1997 Feb;98(2):67–72 (Eng. Abstr.) **(Slo)**

[Secondary prevention of cardiovascular diseases in the elderly] Květenský J, et al. **Bratisl Lek Listy** 1996 Aug; 97(8):487–9 (Eng. Abstr.) **(Slo)**

[Calcium channel blockers and cardiovascular morbidity mortality (editorial)] Robles NR. **An Med Interna** 1997 May;14(5):217–9 **(Spa)**

[Should moderate hypercholesterolemia be treated? New reasons for old opinions] Alvarez-Sala Walther LA, et al. **Med Clin (Barc)** 1997 Jul 5;109(6):225–8 **(Spa)**

[Transesophageal echocardiography during total arthroplasty of the hip (letter)] Hurtado-Martín J, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):223–4 **(Spa)**

[Prevention of cardiovascular diseases: The Catalonia Declaration] **Rev Panam Salud Publica** 1997 Aug; 2(2):77–101 **(Spa)**

[The "green keyhole" project for public health. The effect of society's impact on health is difficult to measure] Lindholm L, et al. **Lakartidningen** 1997 May 14; 94(20):1905–7 **(Swe)**

PSYCHOLOGY

Negative feelings (discontent) predict progress of intima-media thickness of the common carotid artery in treated hypertensive men at high cardiovascular risk. Agewall S, et al. **Am J Hypertens** 1996 Jun;9(6):545–50

Definition of life quality from a patient versus health care professional perspective. Woodend AK, et al. **Int J Rehabil Res** 1997 Mar;20(1):71–80 (35 ref.)

Electrocortical responses to ecologically relevant visual stimuli among professional drivers with and without cardiovascular disease. Emdad R, et al. **Integr Physiol Behav Sci** 1996 Apr–Jun;31(2):96–111

Development of the multidimensional index of life quality. A quality of life measure for cardiovascular disease. Avis NE, et al. **Med Care** 1996 Nov;34(11):1102–20

Formation of formaldehyde from adrenaline in vivo; a potential risk factor for stress-related angiopathy. Yu PH, et al. **Neurochem Res** 1997 May;22(5):615–20

Smoking, smoking cessation, and understanding of the role of multiple cardiac risk factors among the urban poor. Hyman DJ, et al. **Prev Med** 1996 Nov–Dec;25(6):653–9

Screening school personnel for cardiovascular disease risk factors: short-term impact on behavior and perceived role as promoters of heart health. O'Loughlin J, et al. **Prev Med** 1996 Nov–Dec;25(6):660–7

Psychiatric aspects of cardiovascular disease. Shapiro PA. **Psychiatr Clin North Am** 1996 Sep;19(3):613–29 (70 ref.)

Spousal similarity in subjective well-being: the Cardiovascular Health Study. Bookwala J, et al. **Psychol Aging** 1996 Dec;11(4):582–90

Emotional reactivity, defensiveness, and ambulatory cardiovascular response at work. Melamed S. **Psychosom Med** 1996 Sep–Oct;58(5):500–7

[The psychological aspect in cardiologic intervention research is often disregarded (letter)] Due EP. **Ugeskr Laeger** 1996 Oct 21;158(43):6118–20 **(Dan)**

[Cardiovascular diseases caused by unemployment? An analysis from the viewpoint of social medicine (see comments)] Weber A, et al. **Wien Klin Wochenschr** 1997 Mar 28;109(6):202–10 (50 ref.) (Eng. Abstr.). Comment in: Wien Klin Wochenschr 1997 Mar 28;109(6):177–9. **(Ger)**

RADIOGRAPHY

Advances in Ultrafast Computed Tomography: 1996. An International Symposium on Electron Beam Tomography. Lake Buena Vista, Florida, October 4–6, 1996. Abstracts. **Am J Card Imaging** 1996 Apr;10(2 Suppl 1):1–13

Images in cardiovascular medicine. Cardiovascular disease in ankylosing (Marie–Strümpell) spondylitis. Ansari A, et al. **Circulation** 1997 Jun 3;95(11):2585–6

[Systematic use of 4 French catheters for left heart catheterization and coronary angiographies] Meyer P, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):35–40 (Eng. Abstr.) **(Fre)**

[Invasive or noninvasive angiography? The role of "classical" catheter angiography] Hagen B. **Radiologe** 1997 Jul; 37(7):493–500 (50 ref.) (Eng. Abstr.) **(Ger)**

[Ultrafast computerized tomography: cardiovascular applications] Fedriga E, et al. **Cardiologia** 1997 Mar; 42(3):311–4 **(Ita)**

[Spiral computed tomography in the diagnosis of pathology of the vascular bed] Makarenko VN, et al. **Vestn Rentgenol Radiol** 1996 Sep–Oct;(5):21–5 (Eng. Abstr.) **(Rus)**

[International Symposium on Cardiovascular and Interventional Radiology. Moscow, 1995] Sviridov NK. **Vestn Rentgenol Radiol** 1996 Sep–Oct;(5):56–8 **(Rus)**

RADIONUCLIDE IMAGING

3rd International Conference of Nuclear Cardiology. Florence, Italy, April 6–9, 1997. Abstracts. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 2):S1–138

RADIOTHERAPY

3rd International Conference of Nuclear Cardiology. Florence, Italy, April 6–9, 1997. Abstracts. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 2):S1–138

REHABILITATION

Traumatology--the Achilles heel in the rehabilitation of cardiovascular outpatients? Unverdorben M, et al. **Int J Sports Med** 1997 Jan;18(1):62–5

A regional comparison of cardiac rehabilitation personnel. Adherence to the 1995 American Association of Cardiovascular and Pulmonary Rehabilitation Guidelines by Staff Position. Bennett SB, et al. **J Cardiopulm Rehabil** 1997 Mar–Apr;17(2):92–102

1996 American Association of Cardiovascular and Pulmonary Rehabilitation 11th annual meeting. Baltimore, Maryland, September 19–22, 1996. Abstracts. **J Cardpulm Rehabil** 1996 Sep–Oct;16(5):296–335

Combining case management, pathways, and report cards for secondary cardiac prevention. Levknecht L, et al. **Jt Comm J Qual Improv** 1997 Mar;23(3):162–74

Should all cardiac patients be offered the choice of cardiac rehabilitation? Digenio AG, et al. **S Afr Med J** 1997 Jun; 87 Suppl 3:C136–44 (83 ref.)

[Guidelines of the French Society of Cardiology for practice of cardiac rehabilitation in adults] **Arch Mal Coeur Vaiss** 1997 Feb;90(2):271–83 **(Fre)**

[Professional and organizational guidelines of cardiac rehabilitation (conditions and requirements). Hungarian College of Cardiology and Rehabilitation] Berényi I, et al. **Orv Hetil** 1997 Aug 17;138(33):2065–72 **(Hun)**

SURGERY

Preconditioning to improve myocardial protection. Rao V, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:338–54 (72 ref.)

Reactive oxygen species. Enzymatic and nonenzymatic antioxidants in patients undergoing open heart surgery. Suri RK, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:366–70

Perioperative variation in phagocytic activity against Candida albicans measured by a flow-cytometric assay in cardiovascular-surgery patients. Tran TL, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):447–51

Evaluation of radial artery as used for coronary vessel grafting in human heart. Jędrzejczyk T, et al. **Folia Morphol (Warsz)** 1996;55(4):298–300

Acquired supranuclear ocular motor paresis following cardiovascular surgery. Devere TR, et al. **J Neuroophthalmol** 1997 Sep;17(3):189–93

Clinical characteristics of preoperative hypoalbuminemia predict outcome of cardiovascular surgery. Rady MY, et al. **JPEN J Parenter Enteral Nutr** 1997 Mar–Apr; 21(2):81–90

German Society for Thoracic and Cardiovascular Surgery, Swiss Society for Thoracic and Cardiovascular Surgery, Austrian Society for Thoracic and Cardiovascular Surgery. Membership list 1995. **Thorac Cardiovasc Surg** 1996 Feb; 44 Suppl 1:4–38

25th annual meeting of the German Society for Thoracic and Cardiovascular Surgery, 2nd joint annual meeting of the German Society for Thoracic and Cardiovascular Surgery, Austrian Society for Thoracic and Cardiac Surgery, and the Swiss Society for Thoracic and Cardiovascular Surgery. Vienna, Austria, February 28–March 2, 1996. Abstracts. **Thorac Cardiovasc Surg** 1996 Feb;44 Suppl 1:54–219 **(Eng, Ger)**

[Renal problems in elderly patients after interventions on heart, thorax and/or large vessels] Eichler I, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1013–4 (Eng. Abstr.) **(Ger)**

[Homograft in the therapy of cardiovascular diseases] Striffeler H, et al. **Schweiz Rundsch Med Prax** 1997 Mar 18;86(12):476–81 (Eng. Abstr.) **(Ger)**

[26th Annual meeting of the German Society for Thoracic and Cardiovascular Surgery. Dresden. February 5–8, 1997. Abstracts] **Thorac Cardiovasc Surg** 1997 Feb;45(1 Suppl):55–197 **(Ger)**

[Value of cardiac scintigraphy using thallium dipyridamole in the preoperative diagnosis of vascular diseases] Natale A, et al. **Minerva Cardioangiol** 1996 Jul–Aug; 44(7–8):337–42 (38 ref.) (Eng. Abstr.) **(Ita)**

[Assessment of quality of life in long-term results of patients over 75 years old after emergent cardiovascular surgery] Tobe M, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):618–21 (Eng. Abstr.) **(Jpn)**

[Cardiovascular surgery in the Russian Federation: state of the art (1993–1994)] Bokkeriya LA. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):3–5 (Eng. Abstr.) **(Rus)**

THERAPY

No identifiable effect of ginseng (Gericomplex) as an adjuvant in the treatment of geriatric patients. Thommessen B, et al. **Aging (Milano)** 1996 Dec;8(6):417–20

Gene therapy for cardiovascular diseases. Ylä-Herttuala S. **Ann Med** 1996 Apr;28(2):89–93 (28 ref.)

Information needed to decide about cardiovascular treatment in primary care. Robson J. **BMJ** 1997 Jan 25; 314(7076):277–80

Genetics and the therapy of cardiovascular disease. **Br J Clin Pharmacol** 1997 May;43(5):521–3

Advances in cardiovascular gene transfer. Li K, et al. **Cardiologia** 1997 Jan;42(1):39–46 (85 ref.)

The Society of Cardiac Angiography and Interventions 20th annual meeting. Scottsdale, Arizona, May 13–17, 1997. Abstracts. **Cathet Cardiovasc Diagn** 1997 May;41(1):98–115

Five year trends in cardiac catheterization: a report from the Registry of the Society for Cardiac Angiography and Interventions. Krone RJ, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):31–5

Chest 1997. Moving toward the future with patient-centered care. New Orleans, Louisiana. October 26–30, 1997. Abstracts. **Chest** 1997 Sep;112(3 Suppl):1S–180S

Effects of platelet glycoprotein IIb/IIIa blockade with tirofiban on adverse cardiac events in patients with unstable angina or acute myocardial infarction undergoing coronary angioplasty. The RESTORE Investigators. Randomized Efficacy Study of Tirofiban for Outcomes and REstenosis. **Circulation** 1997 Sep 2;96(5):1445–53

Meeting highlights. The 69th Scientific Sessions of the American Heart Association in New Orleans, La, November 10–13, 1996 [news] Ferguson JJ, et al. **Circulation** 1997 Feb 18;95(4):761–4

Perspectives on large-scale cardiovascular clinical trials for the new millennium. The Virtual Coordinating Center for Global Collaborative Cardiovascular Research (VIGOUR) Group. Topol EJ, et al. **Circulation** 1997 Feb 18; 95(4):1072–82 (64 ref.)

Clinical trials: are they really useful for clinical decision making? [editorial] Conti CR. **Clin Cardiol** 1996 Oct; 19(10):763–4

Advertising of therapies for cardiovascular patients [letter; comment] Foster MC. **Clin Cardiol** 1997 May;20(5):506–7 . Comment on: Clin Cardiol 1997 Jan;20(1):1.

Increased use of cardiovascular medications in seniors prescribed non-ASA non-steroidal anti-inflammatory drugs. Hogan DB, et al. **Clin Invest Med** 1996 Feb; 19(1):46–54

Therapeutic targets in cardiovascular disorders. Schaper W, et al. **Curr Opin Biotechnol** 1996 Dec;7(6):635–40 (51 ref.)

A strategy for arterial risk assessment and management in type 2 (non-insulin-dependent) diabetes mellitus. European Arterial Risk Policy Group on behalf of the International Diabetes Federation European Region. **Diabet Med** 1997 Jul;14(7):611–21 (73 ref.)

Prevention and management of cardiovascular disease in patients with diabetes mellitus: an evidence base. Yudkin JS, et al. **Diabet Med** 1996 Sep;13(9 Suppl 4):S101–21 (116 ref.)

American Diabetes Association annual meeting 1996: cardiovascular disease. Bloomgarden ZT. **Diabetes Care** 1996 Dec;19(12):1459–61

Pragmatic and mechanistic trials. Califf RM, et al. **Eur Heart J** 1997 Mar;18(3):367–70

Transoesophageal stress echocardiography. Flachskampf FA, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D37–42 (19 ref.)

Prospects for gene therapy in cardiovascular disease. Lafont A, et al. **Eur Heart J** 1996 Sep;17(9):1312–7 (69 ref.)

28th Bethesda Conference. Task Force 4: Referral guidelines and the collaborative care of patients with cardiovascular disease. Fye WB, et al. **J Am Coll Cardiol** 1997 May; 29(6):1162–70 (73 ref.)

President's page: evaluation and management--the 51% solution [news] Lewis RP. **J Am Coll Cardiol** 1997 Jan; 29(1):219–20

ACC/AHA task force report. Special report: guidelines for perioperative cardiovascular evaluation for noncardiac surgery. Report of the American College of Cardiology/American Heart Association Task Force on practice guidelines (Committee on Perioperative Cardiovascular Evaluation for Noncardiac Surgery). **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):540–52

Evidence-based medicine, practice variations and clinical freedom. Hampton JR. **J Eval Clin Pract** 1997 Apr; 3(2):123–31 (38 ref.)

Therapeutic implications of the epidemiology and timing of myocardial infarction and other cardiovascular diseases. Flack JM, et al. **J Hum Hypertens** 1997 Jan;11(1):23–8 (34 ref.)

Society of Cardiovascular and Interventional Radiology (SCVIR) 22nd annual scientific meeting Washington, D.C., March 8–13, 1997. Abstracts. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 2):11–305

Cardiovascular disease. Gore JM, et al. **JAMA** 1997 Jun 18; 277(23):1845–6

The Health Care Quality Improvement Program and the Cooperative Cardiovascular Project in Maryland. Oetgen WJ, et al. **Md Med J** 1996 Oct;45(10):853–4

Making use of portable defibrillators. Ezelle PA. **Occup Health Saf** 1997 Feb;66(2):53–5, 61

Fusigenic viral liposome for gene therapy in cardiovascular diseases [comment] Dzau VJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11421–5 (27 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Oct 15;983(21):11615–7.

Strategies to evaluate quality clinical outcomes. Shinn JA. **Prog Cardiovasc Nurs** 1997 Winter;12(1):44–6 (2 ref.)

Cardiovascular gene therapy: current concepts. Fox JC. **Ther Drug Monit** 1996 Aug;18(4):410–22 (110 ref.)

Physical activity in the prevention and management of cardiovascular disease. Birrer RB. **World Rev Nutr Diet** 1997;82:191–209 (45 ref.)

[Diagnosis and therapy of cardiovascular diseases in elderly patients. Do different criteria apply?] Bachmann K, et al. **Fortschr Med** 1996 Mar 10;114(7):23–8 (Eng. Abstr.) **(Ger)**

[The elderly patient with cardiovascular diseases--medical criteria alone are not decisive] Pullwitt DH, et al. **Fortschr Med** 1996 Mar 10;114(7):31–2 **(Ger)**

[Cardiovascular molecular genetics and gene therapy. Introduction to the terminology and technique] Eppenberger HM. **Schweiz Med Wochenschr** 1996 Oct 12; 126(41):1716–20 (Eng. Abstr.) **(Ger)**

[Gene therapy in cardiovascular medicine: reality or fantasy?] Dal Palù C, et al. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:55S–59S (18 ref.) (Eng. Abstr.) **(Ita)**

[A query system for the "SINTESI" database in scientific research and medical practice] Palmieri V, et al. **Cardiologia** 1997 May;42(5):519–24 (Eng. Abstr.) **(Ita)**

[Cardiology--ways of progress] Tendera M. **Pol Arch Med Wewn** 1997;97 Spec No:60–1, 64–8 (43 ref.) **(Pol)**

[Use of recombinant DNA techniques in circulatory system diseases. Use of DNA analysis for evaluating diseases of circulation] Buraczyńska M, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):143–6 (31 ref.) **(Pol)**

[The initial experience of using fraxiparin in extracorporeal detoxication in clinical cardiology] Sirenko IuN, et al. **Klin Khir** 1994;(12):23–5 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Negative feelings (discontent) predict progress of intima-media thickness of the common carotid artery in treated hypertensive men at high cardiovascular risk. Agewall S, et al. **Am J Hypertens** 1996 Jun;9(6):545–50

Transthoracic echocardiographic findings in patients with acute retinal arterial obstruction. A retrospective review. Retinal Emboli of Cardiac Origin Group [see comments] Sharma S, et al. **Arch Ophthalmol** 1996 Oct;114(10):1189–92 . Comment in: Arch Ophthalmol 1997 Jul;115(7):942.

Carotid artery and left ventricular structural relationship in asymptomatic men at risk for cardiovascular disease. Linhart A, et al. **Atherosclerosis** 1996 Nov 15;127(1):103–12

Transoesophageal echocardiography. Simpson IA. **Br J Hosp Med** 1994 Jan 19–Feb 1;51(1–2):24–6, 28–30 (15 ref.)

Omniplane transesophageal echocardiography imaging planes exploration. Wang G, et al. **Chin Med Sci J** 1996 Mar;11(1):41–4

Diastolic impairment in asymptomatic systemic lupus erythematosus patients [letter] Astorri E, et al. **Clin Rheumatol** 1997 May;16(3):320–1

Transesophageal echocardiography. Porembka DT. **Crit Care Clin** 1996 Oct;12(4):875–918 (346 ref.)

A three-dimensional perspective [editorial; comment] Popp RL. **Eur Heart J** 1996 Oct;17(10):1456–8. Comment on: Eur Heart J 1996 Oct;17(10):1584–92.

Prediction of lethal or life-threatening cardio-circulatory events in patients who apparently are not at risk : a preliminary retrospective echocardiographic study. Demczuk M, et al. **J Cardiol** 1996 Sep;28(3):143–54

Non-invasive assessment of cardiovascular disease in diabetes mellitus. Lehmann ED, et al. **Lancet** 1997 Jul;350 Suppl 1:SI14–9 (59 ref.)

Clinical utility, safety, acceptability and complications of transoesophageal echocardiography (TEE) in 901 patients. Chee TS, et al. **Singapore Med J** 1995 Oct;36(5):479–83

URINE

Urinary albumin excretion--a predictor of risk of cardiovascular disease. A prospective 10-year follow-up of middle-aged nondiabetic normal and hypertensive men. Ljungman S, et al. **Am J Hypertens** 1996 Aug;9(8):770–8

The effect of boron supplementation on its urinary excretion and selected cardiovascular risk factors in healthy male subjects. Naghii MR, et al. **Biol Trace Elem Res** 1997 Mar; 56(3):273–86

VETERINARY

The pharmacological basis of cardiac drug selection for use in horses [editorial; comment] Baggot JD. **Equine Vet J Suppl** 1995 Sep;(19):97–100. Comment on: Equine Vet J Suppl 1995 Sep;(19):114–9.

Equine cardiovascular medicine: past, present and future [editorial; comment] Pipers FS. **Equine Vet J Suppl** 1995 Sep;(19):3–4. Comment on: Equine Vet J Suppl 1995 Sep;(19):71–80.

Cardiovascular causes of exercise intolerance. Mitten LA. **Vet Clin North Am Equine Pract** 1996 Dec;12(3):473–94 (89 ref.)

[Sedation and anesthesia in dogs and cats with cardiovascular diseases. III. Ventilation, respiratory monitoring, treatment for postoperative pain] Skarda RT, et al. **Schweiz Arch Tierheilkd** 1996;138(6):312–8 (Eng. Abstr.) **(Ger)**

CARDIOVASCULAR SYSTEM

Joint meeting of the Belgian and Dutch Working Groups in Cardiology. Brussels, Belgium, 6–7 December 1996. Abstracts. **Acta Cardiol** 1997;52(1):75–89

Low power, type II errors, and other statistical problems in recent cardiovascular research. Williams JL, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H487–93

Death by design. Programmed cell death in cardiovascular biology and disease. MacLellan WR, et al. **Circ Res** 1997 Aug;81(2):137–44 (102 ref.)

Old and new approaches for evaluating autonomic control of circulation in man. Grassi G, et al. **Contrib Nephrol** 1996; 119:165–72 (26 ref.)

Role of endothelin in the regulation of vascular tone and blood pressure. Webb DJ, et al. **Contrib Nephrol** 1996; 119:1–7 (10 ref.)

Hemodynamic responses to cold stress in blacks: effect of application site. Duey WJ, et al. **Ethn Dis** 1996 Autumn; 6(3–4):272–8

Blood pressures and cardiovascular homeostasis in mice having reduced or absent angiotensin-converting enzyme gene function. Tian B, et al. **Hypertension** 1997 Jul;30(1 Pt 1):128–33

American College of Cardiology 46th annual scientific session. Anaheim, California, March 16–19, 1997 Abstracts. **J Am Coll Cardiol** 1997 Feb;29(2 Suppl A):1A–678A

Bibliography current world literature. **J Cardiovasc Risk** 1996 Apr;3(2):233–61

Abstracts of the Carl-Ludwig-Symposium. Leipzig, Germany, 26–28 September 1996. **J Mol Cell Cardiol** 1996 Oct;28(10):A279–94

61st Annual scientific meeting of the Japanese Circulation Society. Tokyo, March 31–April 2, 1997. Abstracts. **Jpn Circ J** 1997 Jul;61(7):543–644

The 60th annual scientific meeting of the Japanese Circulation Society. March 19–21, 1996, Osaka, Japan. Abstracts. **Jpn Circ J** 1996 Jul;60(7):389–551

Modifications of arterial baroreflexes: obligatory roles in cardiovascular regulation in stress and poststress recovery. Nosaka S. **Jpn J Physiol** 1996 Aug;46(4):271–88 (198 ref.)

[62nd Annual meeting of the German Association for Cardiology and Cardiovascular Research. Mannheim, 11–13 April 1996. Abstracts] **Z Kardiol** 1996;85 Suppl 2:1–331 **(Ger)**

[63rd Annual meeting of the German Society of Cardiology and Cardiovascular Research. Mannheim, 3–5 April 1997. Abstracts] **Z Kardiol** 1997;86 Suppl 2:A6–385 **(Ger)**

[56th National Congress of the Italian Society of Cardiology. Rome, 12–15 December 1995. Abstracts] **Cardiologia** 1995 Dec;40(12 Suppl 2):1–138 **(Ita)**

[57th National Congress of the Italian Society of Cardiology. Rome, 10–13 December 1996. Abstracts] **Cardiologia** 1996 Dec;41 Suppl 5:7–155 **(Ita)**

[44th Scientific Session of the Japanese College of Cardiology. Tokyo, September 25–27, 1996. Abstracts] **J Cardiol** 1996;28 Suppl 1:1–260 **(Jpn)**

[XVIII Portuguese Congress of Cardiology. Porto, 20–23 April 1997. Abstracts] **Rev Port Cardiol** 1997 Apr;16 Suppl 1:I11–99 **(Por)**

ANATOMY & HISTOLOGY

Multimodality cardiovascular image segmentation using a deformable contour model. Sebbahi A, et al. **Comput Med Imaging Graph** 1997 Mar-Apr;21(2):79–89

A general model for the origin of allometric scaling laws in biology [see comments] West GB, et al. **Science** 1997 Apr 4;276(5309):122–6. Comment in: Science 1997 Apr 4;276(5309):34.

CHEMISTRY

Distribution of Lys-gamma 2-melanocyte-stimulating hormone- (Lys-gamma 2-MSH)-like immunoreactivity in neuronal elements in the brain and peripheral tissues of the rat. Fodor M, et al. **Brain Res** 1996 Aug 26; 731(1–2):182–9

Enhanced tissue polyamine content in the spontaneously hypertensive rat. Ibrahim J, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):410–4

Construction of a human heart cDNA library and identification of cardiovascular based genes (CVBest). Liew CC, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):81–7

Direct measurement of nitric oxide in the cardiovascular system. Malinski T, et al. **Physiol Res** 1996;45(4):279–84

Estrogen receptors in the cardiovascular system. Perrot-Applanat M. **Steroids** 1996 Apr;61(4):212–5

DRUG EFFECTS

Effect of DV-7028, a novel serotonin 5-HT2 receptor antagonist on the cardiovascular system in rats. Pawlak D, et al. **Acta Physiol Hung** 1996;84(3):325–6

Intrarenal administration of angiotensin II does not moderate afferent renal nerve mediated cardiovascular reflexes in the anaesthetized rabbit. Ashton N, et al. **Acta Physiol Scand** 1996 Nov;158(3):233–40

Synthesis and properties of some aryloxyaminoalkanes. Marona H, et al. **Acta Pol Pharm** 1996 Jan-Feb;53(1):47–52

Cardiovascular safety of MnDPDP and MnCl2. Jynge P, et al. **Acta Radiol** 1997 Jul;38(4 Pt 2):740–9 (49 ref.)

Cardiovascular effects of MnDPDP and MnCl2 in dogs with acute ischaemic heart failure. Karlsson JO, et al. **Acta Radiol** 1997 Jul;38(4 Pt 2):750–8

Opioid and nonopioid cardiovascular effects of dynorphins. Dumont M, et al. **Adv Pharmacol** 1997;37:1–33 (218 ref.)

Cardiovascular responses to dynamic submaximal exercise in children previously treated with anthracycline. Johnson D, et al. **Am Heart J** 1997 Feb;133(2):169–73

Cardiovascular effects of a trandolapril/verapamil combination in patients with mild to moderate essential hypertension. Aepfelbacher FC, et al. **Am J Cardiol** 1997 Mar 15;79(6):826–8

Effects of atenolol versus enalapril on cardiovascular fitness and serum lipids in physically active hypertensive men. Gordon NF, et al. **Am J Cardiol** 1997 Apr 15;79(8):1065–9

Pharmacologic and therapeutic differences among calcium channel antagonists: profile of mibefradil, a new calcium antagonist. Triggle DJ. **Am J Cardiol** 1996 Nov 7; 78(9A):7–12 (41 ref.)

The issue of the cardiovascular safety of dihydropyridines. Kloner RA. **Am J Hypertens** 1996 Dec;9(12 Pt 2):182S–186S (29 ref.)

Thyroid hormone and the heart [editorial; comment] Klein I, et al. **Am J Med** 1996 Nov;101(5):459–60. Comment on: Am J Med 1996 Nov;101(5):461–7.

Cardiovascular effects of serotonin and DP-5-CT in conscious Long-Evans and Brattleboro rats. Anderson IK, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R455–63

Preterm newborn lamb renal and cardiovascular responses after fetal or maternal antenatal betamethasone. Berry LM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1972–9

CNS actions of serotonin on cardiovascular function: nonadrenergic, noncholinergic mechanisms. Dedeoğlu A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R569–78

Cardiovascular responses to glutamate stimulation of diagonal band of Broca. Kirouac GJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H540–5

Cardiovascular actions of trout urotensin II in the conscious trout, Oncorhynchus mykiss. Le Mevel JC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1335–43

System identification of closed-loop cardiovascular control: effects of posture and autonomic blockade. Mullen TJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H448–61

Effects of nonanticoagulant heparin on cardiovascular and hepatocellular function after hemorrhagic shock. Wang P, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1294–302

Sex differences in the cardiovascular and renal actions of vasopressin in conscious rats. Wang YX, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R370–6

Actions of xylazine in young swine. Gómez de Segura IA, et al. **Am J Vet Res** 1997 Jan;58(1):99–102

May cardiovascular stability be achieved with both sevoflurane and desflurane? [letter; comment] Martinez-Laborde FE. **Anesth Analg** 1996 Dec; 83(6):1351–2. Comment on: Anesth Analg 1995 Dec;81(6):1186–90.

Demonstration of potent lipid-lowering activity by a thyromimetic agent devoid of cardiovascular and thermogenic effects. Stephan ZF, et al. **Atherosclerosis** 1996 Sep 27;126(1):53–63

Effect of the oxytocin antagonist atosiban (1-deamino-2-D-tyr(OET)-4-thr-8-orn-vasotocin/oxytocin) on nocturanl myometrial contractions, maternal cardiovascular function, transplacental passage, and fetal oxygenation in the pregnant baboon during the last third of gestation. Nathanielsz PW, et al. **Biol Reprod** 1997 Aug;57(2):320–4

Cardiovascular effects of an organophosphate toxin isolated from Ptychodiscus brevis. Mazumder PK, et al. **Biomed Environ Sci** 1997 Mar;10(1):85–92

Cardiovascular responses and interactions by neuropeptide Y in rats with congestive heart failure. Feng QP, et al. **Blood Press** 1996 Sep;5(5):312–8

Androgen supplementation in eugonadal men with osteoporosis-effects of 6 months of treatment on bone mineral density and cardiovascular risk factors. Anderson FH, et al. **Bone** 1996 Feb;18(2):171–7

Neurological, cardiovascular and metabolic effects of mefloquine in healthy volunteers: a double-blind, placebo-controlled trial [see comments] Davis TM, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):415–21. Comment in: Br J Clin Pharmacol 1997 Jun;43(6):665.

Inhibition of nitric oxide synthase by 1-(2-trifluoromethylphenyl) imidazole (TRIM) in vitro: antinociceptive and cardiovascular effects. Handy RL, et al. **Br J Pharmacol** 1996 Sep;119(2):423–31

Cardiovascular effects of central administration of clonidine in conscious cats. Ally A. **Brain Res** 1997 Jul 4;761(2):283–9

Cardiovascular effects of Leu-enkephalin in the nucleus tractus solitarius of the rat. Feldman PD, et al. **Brain Res** 1996 Feb 19;709(2):331–36

The role of amygdala and hypothalamus in GABAA antagonist bicuculline-induced cardiovascular responses in conscious rats. Gören Z, et al. **Brain Res** 1996 May 25; 722(1–2):118–24

Cardiovascular effects of adrenomedullin in teleost fishes. Aota S. **Braz J Med Biol Res** 1995 Nov-Dec; 28(11–12):1223–6

Are psychotropic drugs at therapeutic levels a concern for cardiologists? Burggraf GW. **Can J Cardiol** 1997 Jan; 13(1):75–80 (55 ref.)

Thromboxane A2 acts at a site perfused by the carotid vasculature to mediate cardiovascular and adrenocortical responses. Cudd TA, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):271–8

Effects of the angiotensin converting enzyme (ACE) inhibitor, captopril, on the cardiovascular, endocrine, and renal responses to furosemide in conscious lambs. de Wildt SN, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):263–70

Modification of cardiopulmonary and intestinal motility effects of xylazine with glycopyrrolate in horses. Singh S, et al. **Can J Vet Res** 1997 Apr;61(2):99–107

7th International Symposium on Cardiovascular Pharmacotherapy. Jerusalem, Israel, June 1–5, 1997. Abstracts. **Cardiovasc Drugs Ther** 1997 Jun;11 Suppl 2:315–421

Forskolin derivatives. I. Synthesis, and cardiovascular and adenylate cyclase-stimulating activities of water-soluble forskolins. Tatee T, et al. **Chem Pharm Bull (Tokyo)** 1996 Dec;44(12):2274–9

Effects of inhaled albuterol and ipratropium bromide on autonomic control of the cardiovascular system. Dagnone AJ, et al. **Chest** 1997 Jun;111(6):1514–8

Cardiovascular effects of insulin-like growth factor-1 and growth hormone in chronic left ventricular failure in the rat. Duerr RL, et al. **Circulation** 1996 Jun 15;93(12):2188–96

Cardiovascular effects of an ultra-short-acting nitric oxide-releasing compound, zwitterionic diamine/NO adduct, in dogs. Zhang P, et al. **Circulation** 1996 Nov 1; 94(9):2235–40

Long-term cardiovascular effects of growth hormone treatment in GH-deficient adults. Preliminary data in a small group of patients. Johannsson G, et al. **Clin Endocrinol (Oxf)** 1996 Sep;45(3):305–14

Cardiovascular effects of oxymetazoline and UK14,304 in conscious and pithed rats. Bayorh MA, et al. **Clin Exp Hypertens** 1997 May;19(4):445–60

Cardiorespiratory and renal responses to arterial chemoreceptor stimulation by hypoxia or almitrine in men. Brauer H, et al. **Clin Exp Pharmacol Physiol** 1996 Dec; 23(12):1021–7

Lack of effect of age on the cardiovascular response to neuropeptide Y injection in the rat nucleus tractus solitarius. Morris MJ, et al. **Clin Exp Pharmacol Physiol** 1997 Feb;24(2):162–5

Regulation and interactions of transforming growth factor-beta with cardiovascular cells: implications for development and disease. Saltis J, et al. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):193–200 (94 ref.)

Cardiovascular pharmacology of purines [editorial] Rongen GA, et al. **Clin Sci (Colch)** 1997 Jan;92(1):13–24 (165 ref.)

Effects of dantrolene on cooling times and cardiovascular parameters in an immature porcine model of heatstroke. Zuckerman GB, et al. **Crit Care Med** 1997 Jan;25(1):135–9

Cardiovascular effects of sulphonylurea derivatives. Smits P, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S55–9 (24 ref.)

Effect of eel ventricular natriuretic peptide on the kidney and cardiovascular system in the dog. Arai M, et al. **Endocr J** 1996 Apr;43(2):205–10

Increased cardiovascular response to caffeine in perimenopausal women before and during estrogen therapy. Del Rio G, et al. **Eur J Endocrinol** 1996 Nov; 135(5):598–603

Oral low–dose midazolam as premedication for intraocular surgery in retrobulbar anesthesia: cardiovascular effects and relief of perioperative anxiety. Kiefer RT, et al. **Eur J Ophthalmol** 1997 Apr–Jun;7(2):185–92

New non–ionic contrast: effects on the cardiovascular system. Pagny JY, et al. **Eur J Radiol** 1996 Nov;23 Suppl 1:S2–5 (23 ref.)

Cardiovascular adverse effects of antimicrobials in complex surgical cases. Kuenneke M, et al. **Eur J Surg Suppl** 1996; (576):24–8

The effects of medetomidine on maternal and fetal cardiovascular and pulmonary function, intrauterine pressure and uterine blood flow in pregnant goats. Sakamoto H, et al. **Exp Anim** 1997 Jan;46(1):67–73

Cardioprotective actions of adenosine and adenosine analogs. Cook MA, et al. **EXS** 1996;76:325–44 (110 ref.)

Cardiovascular responses to short–term fumonisin exposure in swine. Smith GW, et al. **Fundam Appl Toxicol** 1996 Sep; 33(1):140–8

Vanadate and cardiovascular system. Carmignani M, et al. **G Ital Med Lav** 1995 Jan–Nov;17(1–6):51–9

Cardiovascular effects of conventional sulfonylureas and glimepiride. Geisen K, et al. **Horm Metab Res** 1996 Sep; 28(9):496–507

Cardiovascular effects of beta–carbolines in conscious rats. Wible JH, et al. **Hypertens Res** 1996 Sep;19(3):161–70

Contrasting autonomic and hemodynamic effects of insulin in healthy elderly versus young subjects. Hausberg M, et al. **Hypertension** 1997 Mar;29(3):700–5

Insulin and insulin–like growth factor in normal and pathological cardiovascular physiology [clinical conference] Sowers JR. **Hypertension** 1997 Mar;29(3):691–9 (157 ref.)

Histamine up–regulates the generation of nitric oxide, and nitric oxide down–regulates the release of histamine in cardiovascular preparations. Mannaioni PF, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S97–8

Pharmacology of the selective serotonin reuptake inhibitors in children and adolescents. Leonard HL, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jun;36(6):725–36 (109 ref.)

Cardiovascular toxicity of nicotine: implications for nicotine replacement therapy. Benowitz NL, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1422–31 (123 ref.)

Effect of ergotamine and ergonovine on thermal regulation and cardiovascular function in cattle. Browning R Jr, et al. **J Anim Sci** 1997 Jan;75(1):176–81

Effects of renal denervation on cardiovascular and renal responses to ACE inhibition in conscious lambs. Smith FG, et al. **J Appl Physiol** 1997 Aug;83(2):414–9

Hormonal secretion patterns but not autonomic effector responses elicited by hypothalamic heating and cooling are altered in febrile rabbits. Keil R, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):193–201

The cardiac and vascular effects of lacidipine. Agabiti–Rosei E. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S1–5 (17 ref.)

Effects of isoflurane on cardiovascular system and sympathovagal balance in New Zealand white rabbits. Marano G, et al. **J Cardiovasc Pharmacol** 1996 Oct; 28(4):513–8

Comparison of the cardiovascular effects of the novel 5–HT(1B/1D) receptor agonist, SB 209509 (VML251), and sumatriptan in dogs. Parsons AA, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):136–41

Therapeutic, but not low–dose, angiotensin–converting enzyme inhibition causes regression of cardiovascular changes in spontaneously hypertensive rats. Wahlander H, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):327–34

Cardiovascular effects of tricyclic antidepressants in childhood asthma: a case series and review. Wamboldt MZ, et al. **J Child Adolesc Psychopharmacol** 1997 Spring; 7(1):45–64 (63 ref.)

Cardiovascular and metabolic effects of insulin–like growth factor I at rest and during exercise in humans. Donath MY, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4089–94

Altered cardiovascular responses to purinergic A2 stimulation in the nucleus tractus solitarius of spontaneously hypertensive rats. Tanaka M, et al. **J Hypertens** 1995 Nov; 13(11):1285–90

Cardiovascular responses to neuromuscular blockade in the anemic ovine fetus. Shields LE, et al. **J Matern Fetal Med** 1997 Jul–Aug;6(4):195–9

Melanocortin antagonists define two distinct pathways of cardiovascular control by alpha– and gamma–melanocyte–stimulating hormones. Li SJ, et al. **J Neurosci** 1996 Aug 15;16(16):5182–8

Effects of 10–ppm hydrogen sulfide inhalation in exercising men and women. Cardiovascular, metabolic, and biochemical responses. Bhambhani Y, et al. **J Occup Environ Med** 1997 Feb;39(2):122–9

Cardiovascular effects of NT–1, a new patch form of nitroglycerin, alone and in combination with nifedipine in conscious dogs. Kanda A, et al. **J Pharm Pharmacol** 1995 Dec;47(12A):1021–4

Promethazine affects autonomic cardiovascular mechanisms minimally. Brown TE, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):839–44

Cardiovascular and respiratory effects of detomidine in isoflurane–anaesthetised horses. Still J, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):199–203

Respiratory and circulatory parameters of African elephants (Loxodonta africana) anaesthetised with etorphine and azaperone. Still J, et al. **J S Afr Vet Assoc** 1996 Sep; 67(3):123–7

Therapeutic, toxic, and lethal concentrations in human fluids of 90 drugs affecting the cardiovascular and hematopoietic systems. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997; 35(4):345–51

The Gaboon viper, Bitis gabonica: hemorrhagic, metabolic, cardiovascular and clinical effects of the venom. Marsh N, et al. **Life Sci** 1997;61(8):763–9 (35 ref.)

Interferon–alpha does not cause significant cardiac dysfunction in patients with chronic active hepatitis. Kadayifci A, et al. **Liver** 1997 Apr;17(2):99–102

Cardiovascular receptors as drug targets. Eur omega Conferences' Cardiovascular receptors as drug targets. Institut Pasteur, Paris, France, 3–4 October 1996. Maack T. **Mol Med Today** 1997 Mar;3(3):101–2

Cardiovascular effects of the novel histamine H2 receptor agonist amthamine: interaction with the adrenergic system. Coruzzi G, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):417–22

A calcium–channel blocker, amlodipine, attenuates insulin antinatriuresis but does not modulate insulin–mediated attenuation of cardiovascular reactivity in healthy man. Stenvinkel P, et al. **Nephrol Dial Transplant** 1997 Aug; 12(8):1600–7

Central cardiovascular actions of agmatine, a putative clonidine–displacing substance, in conscious rabbits. Head GA, et al. **Neurochem Int** 1997 Jan;30(1):37–45

Cardiorespiratory response to bicuculline during resistive loaded breathing in anesthetized rabbits. Delpierre S, et al. **Neurosci Lett** 1996 Jul 26;213(1):13–6

Cardiovascular effects of cocaine: underlying mechanisms. **NIDA Res Monogr** 1994;140:79–83

Use of ICRF–187 for prevention of anthracycline cardiotoxicity in children: preliminary results [see comments] Schiavetti A, et al. **Pediatr Hematol Oncol** 1997 May–Jun;14(3):213–22. Comment in: Pediatr Hematol Oncol 1997 May–Jun;14(3):iii–vi.

Age–related effects of cardiac sympathetic denervation on the responses to cardiopulmonary receptor stimulation in piglets. Tong S, et al. **Pediatr Res** 1997 Jan;41(1):72–7

Angiotensin III and IV activation of the brain AT1 receptor subtype in cardiovascular function. Wright JW, et al. **Peptides** 1996;17(8):1365–71

Pharmacology of reticulospinal vasomotor neurons in cardiovascular regulation. Sun MK. **Pharmacol Rev** 1996 Dec;48(4):465–94 (408 ref.)

The additive effects of smoking and hypertension. More reasons to help your patients kick the habit. Kochar MS, et al. **Postgrad Med** 1996 Nov;100(5):147–8, 151–4, 159–60 (13 ref.)

Daily administration of m–chlorophenylpiperazine to healthy human volunteers rapidly attenuates many of its behavioral, hormonal, cardiovascular and temperature effects. Benjamin J, et al. **Psychopharmacology (Berl)** 1996 Sep; 127(2):140–9

Cardiovascular response to sympathetic block by regional anesthesia. Hogan Q. **Reg Anesth** 1996 Nov–Dec;21(6 Suppl):26–34 (83 ref.)

Effects of chronic central administration of losartan on the cardiovascular and hormonal responses to hemorrhage in conscious rats. Yang EK, et al. **Regul Pept** 1996 Dec 3; 67(2):107–13

Cardiorespiratory effects of L–glutamate microinjected into the rat ventral medulla. Tolentino–Silva FP, et al. **Respir Physiol** 1997 Apr;108(1):23–33

Cardiovascular autonomic regulation in asthmatic children evidenced by spectral analysis of heart rate and blood pressure variability. Jartti TT, et al. **Scand J Clin Lab Invest** 1996 Oct;56(6):545–54

Anesthesia with sodium pentobarbital enhances lipopolysaccharide–induced cardiovascular dysfunction in rats. Hoque AM, et al. **Shock** 1996 Nov;6(5):365–70

An inhibitor of poly(adenosine 5'–diphosphoribose) synthetase, 3–aminobenzamide, does not improve cardiovascular depression, bronchospasm, or survival associated with systemic anaphylaxis in rabbits in vivo [see comments] Takeuchi H, et al. **Shock** 1997 Aug;8(2):147–52 . Comment in: Shock 1997 Aug;8(2):153–4.

Administration of a matrix metalloproteinase inhibitor after hemorrhage improves cardiovascular and hepatocellular function. Wang P, et al. **Shock** 1996 Nov;6(5):377–82

The use of ratings of perceived exertion for exercise prescription in patients receiving beta–blocker therapy. Eston R, et al. **Sports Med** 1996 Mar;21(3):176–90 (122 ref.)

Cardiovascular effects of a herbicide containing glufosinate and a surfactant: in vitro and in vivo analyses in rats. Koyama K, et al. **Toxicol Appl Pharmacol** 1997 Aug; 145(2):409–14

Cardiovascular responses to glibenclamide during endotoxaemia in the pig. Vanelli G, et al. **Vet Res Commun** 1997 Apr;21(3):187–200

Postoperative analgesic and cardiopulmonary effects in dogs of oxymorphone administered epidurally and intramuscularly, and medetomidine administered epidurally: a comparative clinical study. Vesal N, et al. **Vet Surg** 1996 Jul–Aug;25(4):361–9

[Cardiovascular physiopathology of ovarian hormones] de Ziegler D. **Schweiz Rundsch Med Prax** 1997 Jan 28; 86(5):138–44 (25 ref.) (Eng. Abstr.) **(Fre)**

[Vascular protection with estrogen. In–vitro and in–vivo effects—mechanisms and clinical implication] Barton M, et al. **Schweiz Rundsch Med Prax** 1997 Jan 28;86(5):129–37 (48 ref.) (Eng. Abstr.) **(Ger)**

[Cardiovascular effects of arginine and nitric oxide] Faintuch J, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1995 Nov–Dec; 50(6):334–8 (28 ref.) (Eng. Abstr.) **(Por)**

[The pharmacodynamics of general anesthetics. The neurological and cardiovascular aspects] Vale FM. **Rev Port Cardiol** 1997 Jan;16(1):41–50, 8 (34 ref.) (Eng. Abstr.) **(Por)**

[Cardiovascular pharmacology (XIII). The efficacy of different thrombolytic drugs in the treatment of acute myocardial infarct] López–Sendón J, et al. **Rev Esp Cardiol** 1995 Jun;48(6):407–39 (184 ref.) (Eng. Abstr.) **(Spa)**

EMBRYOLOGY

Developmental analysis of cardiovascular system of 45,X fetuses with cystic hygroma. Miyabara S, et al. **Am J Med Genet** 1997 Jan 20;68(2):135–41

Renal, hormonal, and cardiovascular responses to chronic angiotensin I infusion in the ovine fetus. Moritz KM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1912–7

The role of endothelin–1 in cardiovascular development. Kurihara H, et al. **Ann N Y Acad Sci** 1997 Apr 15; 811:168–76; discussion 176–7

Fibronectin and basement membrane in cardiovascular organogenesis and disease pathogenesis. Farhadian F, et al. **Cardiovasc Res** 1996 Sep;32(3):433–42 (113 ref.)

Expression pattern of connexin gene products at the early developmental stages of the mouse cardiovascular system. Delorme B, et al. **Circ Res** 1997 Sep;81(3):423–37

In vivo assessment of embryonic cardiovascular dimensions and function in day–10.5 to –14.5 mouse embryos. Keller BB, et al. **Circ Res** 1996 Aug;79(2):247–55

Compartment–selective sensitivity of cardiovascular morphogenesis to combinations of retinoic acid receptor gene mutations. Lee RY, et al. **Circ Res** 1997 Jun; 80(6):757–64

Intra–uterine programming of the adult cardiovascular system. Barker DJ. **Curr Opin Nephrol Hypertens** 1997 Jan; 6(1):106–10 (39 ref.)

Distinct alpha 7A beta 1 and alpha 7B beta 1 integrin expression patterns during mouse development: alpha 7A is restricted to skeletal muscle but alpha 7B is expressed in striated muscle, vasculature, and nervous system. Velling T, et al. **Dev Dyn** 1996 Dec;207(4):355–71

Mutations affecting the cardiovascular system and other internal organs in zebrafish. Chen JN, et al. **Development** 1996 Dec;123:293–302

Mutations affecting the formation and function of the cardiovascular system in the zebrafish embryo. Stainier DY, et al. **Development** 1996 Dec;123:285–92

Can twin fetuses be numerically clustered characterizing fetal cardiovascular system function? Yanai S, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):117–29

Endothelin–1 regulates normal cardiovascular development and cardiac cellular hypertrophy. Yamazaki T, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S7–12

Parametric imaging of the chick embryonic cardiovascular system: a novel functional measure. Kosaki K, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):451–6

A novel bHLH–PAS factor with close sequence similarity to hypoxia–inducible factor 1alpha regulates the VEGF expression and is potentially involved in lung and vascular development. Ema M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4273–8

Pathogenetic mechanisms of congenital cardiovascular malformations revisited. Clark EB. **Semin Perinatol** 1996 Dec;20(6):465–72 (36 ref.)

Developmental biology of the heart: is there a role for the physiologist? Rudolph AM. **Semin Perinatol** 1996 Dec; 20(6):589–95 (22 ref.)

Maternal and fetal cardiovascular response to exercise during pregnancy. Veille JC. **Semin Perinatol** 1996 Aug; 20(4):250–62 (33 ref.)

ENZYMOLOGY

Angiotensin I converting enzyme and chymase in cardiovascular tissues. Nishimura H, et al. **Kidney Int Suppl** 1996 Jun;55:S18–23 (63 ref.)

Vascular responses after long–term inhibition of nitric oxide synthesis in newborn dogs. Török J, et al. **Physiol Res** 1996; 45(4):323–8

GROWTH & DEVELOPMENT

The molecular genetics of retinoic acid receptors: cardiovascular and limb development. Sucov HM, et al. **Biochem Soc Symp** 1996;62:143–56 (47 ref.)

Type III collagen is crucial for collagen I fibrillogenesis and for normal cardiovascular development. Liu X, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1852–6

IMMUNOLOGY

Proceedings of the 1st International Meeting on Immunology of Cardiovascular Receptors. Taiyuan, China, May 24–26, 1995. **Blood Press Suppl** 1996;3:4–64

INNERVATION

Cardiovascular afferent inputs to ventral tegmental area. Kirouac GJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1998–2003

Lack of peripheral modulation of cardiovascular central oscillatory autonomic activity during apnea in humans. Passino C, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H123–9

Neural cardiovascular regulation and 24–hour blood pressure and heart rate variability. Parati G, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:47–63 (54 ref.)

Respiratory inputs to central cardiovascular neurons. Pilowsky P, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:64–70 (36 ref.)

Cardiovascular effects of central administration of clonidine in conscious cats. Ally A. **Brain Res** 1997 Jul 4;761(2):283–9

Modulation of sympathetic outflow by centrally acting antihypertensive drugs. van Zwieten PA. **Cardiovasc Drugs Ther** 1996 Jun;10 Suppl 1:283–9 (37 ref.)

Cardiovascular adjustments and pain during repeated cold pressor test. Stancák A Jr, et al. **Clin Auton Res** 1996 Apr; 6(2):83–9

Validation of a computerised measurement system for guided routine evaluation of cardiovascular autonomic neuropathy. Vespasiani G, et al. **Comput Methods Programs Biomed** 1996 Nov;51(3):211–6

Regulation of the cardiovascular system by non–adrenergic non–cholinergic nerves. Ahluwalia A, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):74–9 (81 ref.)

Activation of purinergic receptor subtypes in the nucleus tractus solitarius elicits specific regional vascular response patterns. Barraco RA, et al. **J Auton Nerv Syst** 1996 Jul 5;59(3):113–24

Retest variation of cardiovascular parameters in autonomic testing. Braune S, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):103–7

Increased activity of bulbospinal cardiovascular neurons in the rat rostral ventrolateral medulla upon emergence from anaesthesia. Frugière A, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):87–95

Cardiovascular responses to tests for autonomic dysfunction in patients with chronic obstructive pulmonary disease with and without continuous long–term oxygen therapy. Hjalmarsen A, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):169–74

Cardiac spectral power reflects parasympathetic but not sympathetic nervous system activity in a clinical population. Muth ER, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):201–3

Changes in cardiocirculatory autonomic function after thoracoscopic upper dorsal sympathicolysis for essential hyperhidrosis. Noppen M, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):115–20

Trigeminally–mediated alteration of cardiorespiratory rhythms during nasal application of carbon dioxide in the rat. Yavari P, et al. **J Auton Nerv Syst** 1996 Nov 6; 61(2):195–200

Sympathetic, parasympathetic and non–autonomic contributions to cardiovascular spectral powers in unanesthetized spontaneously hypertensive rats. Daffonchio A, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1636–42

Circulatory control and the supercontrollers. Korner PI. **J Hypertens** 1995 Dec;13(12 Pt 2):1508–21 (133 ref.)

Neural control of the cardiovascular system: insights from muscle sympathetic nerve recordings in humans. Mitchell JH, et al. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S60–9 (48 ref.)

Distribution and projection of the medullary cardiovascular control neurons containing glutamate, glutamic acid decarboxylase, tyrosine hydroxylase and phenylethanolamine N–methyltransferase in rats. Suzuki T, et al. **Neurosci Res** 1997 Jan;27(1):9–19

Cardiovascular response to sympathetic block by regional anesthesia. Hogan Q. **Reg Anesth** 1996 Nov–Dec;21(6 Suppl):26–34 (83 ref.)

[Cardiovascular alpha–, beta 1– and beta 2–adrenoceptor functions in neurogenic orthostatic hypotension] Tamura N, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1120–4 (Eng. Abstr.) **(Jpn)**

METABOLISM

Magnesium and cardiovascular biology: an important link between cardiovascular risk factors and atherogenesis. Altura BM, et al. **Cell Mol Biol Res** 1995;41(5):347–59 (95 ref.)

Expression pattern of connexin gene products at the early developmental stages of the mouse cardiovascular system. Delorme B, et al. **Circ Res** 1997 Sep;81(3):423–37

Developmental regulation of elastin gene expression. Perrin S, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1–2):1–10 (78 ref.)

Endothelin peptides. Hirata Y. **Curr Opin Nephrol Hypertens** 1996 Jan;5(1):12–5 (16 ref.)

The natriuretic peptide family. Nakao K, et al. **Curr Opin Nephrol Hypertens** 1996 Jan;5(1):4–11 (73 ref.)

Distinct alpha 7A beta 1 and alpha 7B beta 1 integrin expression patterns during mouse development: alpha 7A is restricted to skeletal muscle but alpha 7B is expressed in striated muscle, vasculature, and nervous system. Velling T, et al. **Dev Dyn** 1996 Dec;207(4):355–71

Does corticosteroid metabolism in target organs affect the cardiovascular system? Hierholzer K, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):188–92

Heparan sulfate proteoglycans of the cardiovascular system. Specific structures emerge but how is synthesis regulated? Rosenberg RD, et al. **J Clin Invest** 1997 May 1; 99(9):2062–70 (88 ref.)

The role of nitric oxide synthesis in cardiovascular responses to acute hypoxia in the late gestation sheep fetus. Green LR, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):271–7

Molecular aspects of ATP–sensitive K+ channels in the cardiovascular system. Isomoto S, et al. **Jpn J Physiol** 1997; 47 Suppl 1:S5–6 (7 ref.)

Calcitonin gene–related peptide in the cardiovascular system: characterization of receptor populations and their (patho)physiological significance. Bell D, et al. **Pharmacol Rev** 1996 Jun;48(2):253–88 (302 ref.)

[Molecular aspects of the diversity of cardiovascular calcium channels] Nargeot J. **C R Seances Soc Biol Fil** 1996; 190(2–3):219–35 (33 ref.) (Eng. Abstr.) **(Fre)**

[Some characteristics of metabolism in osteoarticular, cardiovascular, and liver tissues in "experimental osteochondrosis"] Kniazieva MV, et al. **Ukr Biokhim Zh** 1995 Nov–Dec;67(6):66–75 (Eng. Abstr.) **(Ukr)**

PATHOLOGY

Sirenomelia, limb reduction defects, cardiovascular malformation, renal agenesis in an infant born to a diabetic mother. Lynch SA, et al. **Clin Dysmorphol** 1997 Jan; 6(1):75–80

Effect of felodipine treatment and withdrawal on blood pressure and cardiovascular structure in New Zealand genetically hypertensive rats. Ledingham JM, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S326–8

PHYSIOLOGY

Cardiovascular and catecholamine responses to static exercise in partially curarized humans. Pawelczyk JA, et al. **Acta Physiol Scand** 1997 May;160(1):23–8

Central nervous mechanisms responsible for cardio–respiratory homeostasis. Spyer KM. **Adv Exp Med Biol** 1995;381:73–9 (20 ref.)

Relationship of body composition and cardiovascular fitness to lipoprotein lipid profiles in master athletes and sedentary men. Yataco AR, et al. **Aging (Milano)** 1997 Feb–Apr; 9(1–2):88–94

Exercise physiology. Irvin CG. **Allergy Asthma Proc** 1996 Nov–Dec;17(6):327–30 (15 ref.)

Protein families that mediate Ca2+ signaling in the cardiovascular system. Katz AM. **Am J Cardiol** 1996 Nov 7;78(9A):2–6 (49 ref.)

Overview of dietary sodium effects on and interactions with cardiovascular and neuroendocrine functions. Ely DL. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):594S–605S (163 ref.)

Cardiovascular regulation by L–arginine in the brain of rats: role of the brain renin–angiotensin system and nitric oxide. Nishimura M, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):389–96

Cardiovascular indexes in the mouse at rest and with exercise: new tools to study models of cardiac disease. Desai KH, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H1053–61

Alterations in the cardiovascular control by the chemoreflex and the baroreflex in old rats. Franchini KG, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R310–3

Adrenergic, respiratory, and cardiovascular effects of core cooling in humans. Frank SM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R557–62

Vasoactivity and immunoreactivity of fish tachykinins in the vascular system of the spiny dogfish. Kågström J, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R585–93

Cardiovascular responses to glutamate stimulation of diagonal band of Broca. Kirouac GJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H540–5

Characterization of an esophagocardiovascular reflex in the rat. Loomis CW, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1783–91

System identification of closed–loop cardiovascular control: effects of posture and autonomic blockade. Mullen TJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H448–61

Role of summation of afferent input in cardiovascular reflexes from splanchnic nerve stimulation. Pan HL, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H849–56

A source of adenosine involved in cardiovascular responses to defense area stimulation. St Lambert JH, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R195–200

Ultradian rhythms of autonomic, cardiovascular, and neuroendocrine systems are related in humans. Shannahoff–Khalsa DS, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R873–87

Cardiovascular, renal, and endocrine responses to graded volume expansion in lambs during maturation. Smith FG, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1718–25

Short–term control of cardiovascular function: estimation of control parameters in healthy humans. Toska K, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H651–60

Subthreshold stimulation of a serotonin 5–HT3 reflex attenuates cardiovascular reflexes. Veelken R, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1500–6

Auto– and cross–spectral analysis of cardiovascular fluctuations during pentobarbital anesthesia in the rat. Yang CC, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H575–82

Estrogen and cardiovascular dynamics. Collins P. **Am J Sports Med** 1996;24(6 Suppl):S30–2

The immune response to prolonged cardiorespiratory exercise. Nieman DC. **Am J Sports Med** 1996;24(6 Suppl):S98–103 (79 ref.)

Insights in vessel development and vascular disorders using targeted inactivation and transfer of vascular endothelial growth factor, the tissue factor receptor, and the plasminogen system. Carmeliet P, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:191–206 (58 ref.)

Nitric oxide in the vasculature: physiology and pathophysiology. Moncada S. **Ann N Y Acad Sci** 1997 Apr 15;811:60–7; discussion 67–9 (52 ref.)

Cardiorespiratory function, flexibility, and body composition among geriatric Tai Chi Chuan practitioners. Lan C, et al. **Arch Phys Med Rehabil** 1996 Jun;77(6):612–6

Haemodynamic consequences of immediate intra–anaesthesia application of intermittent positive pressure breathing in horses. Ratajczak K, et al. **Arch Vet Pol** 1995;35(1–2):5–17

Acute effects of 50 Hz magnetic field exposure on human visual task and cardiovascular performance [published erratum appears in Bioelectromagnetics 1997;18(1):88] Whittington CJ, et al. **Bioelectromagnetics** 1996;17(2):131–7

Effects of dietary lipid modification on adrenoceptor–mediated cardiovascular responsiveness and baroreflex sensitivity in normotensive subjects. Straznicky NE, et al. **Blood Press** 1997 Mar;6(2):96–102

The cardiovascular response to medullary cholinergic and corticoid stimulation is calcium channel dependent in rats. Zhu DN, et al. **Blood Press** 1997 May;6(3):171–9

Neurotransmission of the Bezold–Jarisch reflex in the nucleus tractus solitarii of sino–aortic deafferentated rats. Chianca DA Jr, et al. **Brain Res** 1997 May 9;756(1–2):46–51

The rostral ventrolateral medulla mediates suppression of the circulatory system by the ventromedial nucleus of the hypothalamus. Hirasawa M, et al. **Brain Res** 1996 Jun 17; 724(2):186–90

Identification of diencephalic and brainstem cardiorespiratory areas activated during exercise. Iwamoto GA, et al. **Brain Res** 1996 Jul 8;726(1–2):109–22

Neuropeptide control of the cardiovascular system in fish and reptiles. Holmgren S. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1207–16 (43 ref.)

Cardiovascular, respiratory and metabolic responses to temperature and hypoxia of the winter frog Rana catesbeiana. Rocha PL, et al. **Braz J Med Biol Res** 1997 Jan;30(1):125–31

Glutamatergic transmission in the nucleus tractus solitarii: from server to peripherals in the cardiovascular information superhighway. Talman WT. **Braz J Med Biol Res** 1997 Jan;30(1):1–7 (66 ref.)

Loss of cardiovascular adaptations after physical inactivity. Ehsani AA, et al. **Cardiol Clin** 1997 Aug;15(3):431–8 (54 ref.)

The power athlete. Longhurst JC, et al. **Cardiol Clin** 1997 Aug;15(3):413–29 (115 ref.)

Effects of long–term dietary restriction on cardiovascular function and plasma catecholamines in the rat. Hilderman T, et al. **Cardiovasc Drugs Ther** 1996 Jun;10 Suppl 1:247–50

Cardiopulmonary effects of laparoscopic surgery, revisited [letter; comment] Fahy BG. **Chest** 1997 Jun;111(6):1787–8 . Comment on: Chest 1996 Sep;110(3):810–5.

Circadian rhythms of cardiovascular functions are modulated by the baroreflex and the autonomic nervous system in the rat. Makino M, et al. **Circulation** 1997 Sep 2; 96(5):1667–74

Relationship between spectral components of cardiovascular variabilities and direct measures of muscle sympathetic nerve activity in humans. Pagani M, et al. **Circulation** 1997 Mar 18;95(6):1441–8

Serial assessment of the cardiovascular system in normal pregnancy. Role of arterial compliance and pulsatile arterial load. Poppas A, et al. **Circulation** 1997 May 20; 95(10):2407–15

Continuum of cardiovascular performance across a broad range of fitness levels in healthy older men. Schulman SP, et al. **Circulation** 1996 Aug 1;94(3):359–67

Life and death in the cardiovascular system [editorial; comment] Yeh ET. **Circulation** 1997 Feb 18;95(4):782–6 (42 ref.). Comment on: Circulation 1997 Feb 18;95(4):981–7.

The Valsalva manoeuvre as a cardiovascular reflex test in healthy children and teenagers. de Jong–de Vos van Steenwijk CC, et al. **Clin Auton Res** 1997 Aug;7(4):167–71

Modulation of vascular function by diet and exercise. Jennings GL, et al. **Clin Exp Hypertens** 1997 Jul–Aug; 19(5–6):727–37 (24 ref.)

Transgenic mice to study the role of dopamine receptors in cardiovascular function. Jose PA, et al. **Clin Exp Hypertens** 1997 Jan–Feb;19(1–2):15–25 (61 ref.)

Anger expression and cardiovascular reactivity to mental stress: a spectral analysis approach. Laude D, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):901–11

Selective neural regulation of epinephrine and norepinephrine cells in the adrenal medulla -- cardiovascular implications. Vollmer RR. **Clin Exp Hypertens** 1996 Aug;18(6):731–51 (75 ref.)

Role of the hypothalamic paraventricular nucleus in

cardiovascular regulation. Blair ML, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):161–5

Social isolation affects the pattern of cardiovascular responses to repetitive acoustic startle stimuli. Blanc J, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):40–5

Forebrain pathways and their behavioural interactions with neuroendocrine and cardiovascular function in the rat. Bohus B, et al. **Clin Exp Pharmacol Physiol** 1996 Feb; 23(2):177–82

Role of the dorsomedial hypothalamus in the cardiovascular response to stress. DiMicco JA, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):171–6

Integrative role of the lamina terminalis in the regulation of cardiovascular and body fluid homeostasis. Johnson AK, et al. **Clin Exp Pharmacol Physiol** 1996 Feb;23(2):183–91

Hypothalamic and medullary GABAA and GABAB-ergic systems differently regulate sympathetic and cardiovascular systems. Takenaka K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S48–50

Effect of a physiological insulin infusion on the cardiovascular responses to a high fat meal: evidence supporting a role for insulin in modulating postprandial cardiovascular homoeostasis in man. Kearney MT, et al. **Clin Sci (Colch)** 1996 Oct;91(4):415–23

The exponential distribution applied to nonequidistantly sampled cardiovascular time series. Van Steenis HG, et al. **Comput Biomed Res** 1996 Jun;29(3):174–93

Bioelectrical impedance techniques in medicine. Part II: Monitoring of physiological events by impedance. Valentinuzzi ME, et al. **Crit Rev Biomed Eng** 1996; 24(4–6):353–466 (408 ref.)

Circulation and hemodynamics. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):B27–40

Regulation of the cardiovascular system by non-adrenergic non-cholinergic nerves. Ahluwalia A, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):74–9 (81 ref.)

Intra-uterine programming of the adult cardiovascular system. Barker DJ. **Curr Opin Nephrol Hypertens** 1997 Jan; 6(1):106–10 (39 ref.)

Physiological role of endothelin in cardiovascular and renal hemodynamics: studies in animals. Gellai M. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):64–8 (50 ref.)

Adrenomedullin—physiological regulator of the cardiovascular system or biochemical curiosity? Kitamura K, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):80–7 (89 ref.)

Genotype and cardiovascular phenotype: lessons from genetically manipulated animals and diseased humans. Sharp MG, et al. **Curr Opin Nephrol Hypertens** 1997 Jan; 6(1):51–7 (59 ref.)

Physiological role of the endothelin system in human cardiovascular and renal haemodynamics. Webb D. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):69–73 (46 ref.)

Can twin fetuses be numerically clustered characterizing fetal cardiovascular system function? Yanai S, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):117–29

Effect of eel ventricular natriuretic peptide on the kidney and cardiovascular system in the dog. Arai M, et al. **Endocr J** 1996 Apr;43(2):205–10

Parathyroid hormone-related protein as a cardiovascular regulatory peptide [editorial; comment] Massfelder T, et al. **Endocrinology** 1996 Aug;137(8):3151–3 (31 ref.). Comment on: Endocrinology 1996 Aug;137(8):3154–62.

Cardiorespiratory responses to exercise in horses with different grades of idiopathic laryngeal hemiplegia. Christley RM, et al. **Equine Vet J** 1997 Jan;29(1):6–10

Exercise and the cardiovascular system [editorial; comment] Manohar M. **Equine Vet J Suppl** 1990 Jun;(9):5–6. Comment on: Equine Vet J Suppl 1990 Jun;(9):39–42. Comment on: Equine Vet J Suppl 1990 Jun;(9):47–52. Comment on: Equine Vet J Suppl 1990 Jun;(9):57–60. Comment on: Equine Vet J Suppl 1990 Jun;(9):61–5.

Cardiorespiratory adaptations in neonatal foals. Rose RJ. **Equine Vet J Suppl** 1988 Sep;(5):11–3 (24 ref.)

Cardiorespiratory drift during exercise in the horse [see comments] Thomas DP, et al. **Equine Vet J Suppl** 1990 Jun;(9):61–5. Comment in: Equine Vet J Suppl 1990 Jun;(9):5–6.

Race and physical activity: cardiovascular and renal response to sodium loading. Thompson GD, et al. **Ethn Dis** 1996 Autumn;6(3–4):255–65

Influence of age on the immediate cardiovascular response to orthostatic manoeuvre. Cybulski G. **Eur J Appl Physiol** 1996;73(6):563–72

Comparison of a 4-day confinement and head-down tilt on endocrine response and cardiovascular variability in humans. Sigaudo D, et al. **Eur J Appl Physiol** 1996; 73(1–2):28–37

Long-term use of smokeless tobacco and physical performance in middle-aged men. Bolinder G, et al. **Eur J Clin Invest** 1997 May;27(5):427–33

Spinal muscarinic cholinergic and nitric oxide systems in cardiovascular regulation. Feldman DS, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):211–20

Thermoregulation at rest and during exercise in healthy older adults. Kenney WL. **Exerc Sport Sci Rev** 1997;25:41–76 (132 ref.)

The role of obesity and cardiovascular fitness in the impaired glucose tolerance of aging. Colman E, et al. **Exp Gerontol** 1995 Nov-Dec;30(6):571–80

Cardiopulmonary interactions following REM sleep deprivation in Sprague-Dawley rats. Radulovacki M, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):371–5

Effects of ingested fluids on exercise capacity and on cardiovascular and metabolic responses to prolonged exercise in man. Maughan RJ, et al. **Exp Physiol** 1996 Sep; 81(5):847–59

The role of adenosine receptors in the rostral ventrolateral medulla in the cardiovascular response to defence area stimulation in the rat. Thomas T, et al. **Exp Physiol** 1996 Jan;81(1):67–77

Segregation analysis of cardiovascular reactivity to laboratory stressors. Cheng LS, et al. **Genet Epidemiol** 1997; 14(1):35–49

Effect of land-based and water-based fitness programs on the cardiovascular fitness, strength and flexibility of women aged 65–75 years. Taunton JE, et al. **Gerontology** 1996; 42(4):204–10

Insulin and insulin-like growth factor in normal and pathological cardiovascular physiology [clinical conference] Sowers JR. **Hypertension** 1997 Mar;29(3):691–9 (157 ref.)

An optimized index of human cardiovascular adaptation to simulated weightlessness. Wang M, et al. **IEEE Trans Biomed Eng** 1996 May;43(5):502–11

Kinins in the cardiovascular system. Schölkens BA. **Immunopharmacology** 1996 Jun;33(1–3):209–16 (49 ref.)

Prescribing exercise in multiple short bouts versus one continuous bout: effects on adherence, cardiorespiratory fitness, and weight loss in overweight women. Jakicic JM, et al. **Int J Obes Relat Metab Disord** 1995 Dec; 19(12):893–901

The psychophysiology of cardiovascular reactivity. Andreassi JL. **Int J Psychophysiol** 1997 Jan;25(1):7–11

Evaluation of maximal left ventricular performance in elite bicyclists. Di Bello V, et al. **Int J Sports Med** 1995 Nov; 16(8):498–506

Oxygen uptake efficiency slope: a new index of cardiorespiratory functional reserve derived from the relation between oxygen uptake and minute ventilation during incremental exercise. Baba R, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1567–72

Cardiovascular effects of exercise: role of endothelial shear stress. Niebauer J, et al. **J Am Coll Cardiol** 1996 Dec; 28(7):1652–60

Reactive oxygen species modify reflex cardiovascular responses to static contraction. Bonigut S, et al. **J Appl Physiol** 1996 Sep;81(3):1207–12

Gas exchange and cardiovascular kinetics with different exercise protocols in heart transplant recipients. Grassi B, et al. **J Appl Physiol** 1997 Jun;82(6):1952–62

Interaction between carotid and cardiopulmonary baroreflexes [letter; comment] Halliwill JR, et al. **J Appl Physiol** 1997 Feb;82(2):716–8. Comment on: J Appl Physiol 1996 Jun;80(6):1903–10.

Dynamic resistance exercise and resting blood pressure in adults: a meta-analysis. Kelley G. **J Appl Physiol** 1997 May; 82(5):1559–65

Central hypervolemia in the conscious rat: a model of cardiovascular deconditioning. Martel E, et al. **J Appl Physiol** 1996 Apr;80(4):1390–6

Retest variation of cardiovascular parameters in autonomic testing. Braune S, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):103–7

Cardiovascular autonomic nervous system tests: determination of normative values and effect of confounding variables. Gelber DA, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):40–4

The outward expression of anger, the inward experience of anger and CVR: the role of vocal expression. Siegman AW, et al. **J Behav Med** 1997 Feb;20(1):29–45

The availability of social support reduces cardiovascular reactivity to acute psychological stress. Uchino BN, et al. **J Behav Med** 1997 Feb;20(1):15–27

Young children's cardiovascular stress responses predict resting cardiovascular functioning 2 1/2 years later. Treiber FA, et al. **J Cardiovasc Risk** 1996 Feb;3(1):95–100

Cell adhesion in vascular biology: series introductin [editorial] Ginsberg MH, et al. **J Clin Invest** 1996 Oct 1; 98(7):1505

Selectin ligands: will the real ones please stand up? Varki A. **J Clin Invest** 1997 Jan 15;99(2):158–62 (74 ref.)

Estimation of the cut-off value in cardiovascular autonomic nervous function tests: not-age-related criteria or the age-related 5th percentile. Straub RH, et al. **J Diabetes Complications** 1997 May-Jun;11(3):145–50

Cardiovascular effects of GH. Bengtsson BA, et al. **J Endocrinol** 1997 Jan;152(1):1–3

Oxygen transport and cardiovascular responses to exercise in the yellowfin tuna Thunnus albacares. Korsmeyer KE, et al. **J Exp Biol** 1997 Jul;200 (Pt 14):1987–97

The interaction of pulmonary ventilation and the right-left shunt on arterial oxygen levels. Wang T, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2121–9 (28 ref.)

A study of caloric restriction and cardiovascular aging in cynomolgus monkeys (Macaca fascicularis): a potential model for aging research. Cefalu WT, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan;52(1):B10–9

Correlates of performance-based measures of muscle function in the elderly: the Cardiovascular Health Study. Hirsch CH, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul; 52(4):M192–200

Corticospinal collaterals to medullary cardiovascular nuclei in the rat: an anterograde and a retrograde double-labeling study. Ba-M'Hamed S, et al. **J Hirnforsch** 1996; 37(3):367–75

c-fos expression in the parabrachial nucleus following cardiovascular and blood volume changes. Rocha MJ, et al. **J Hirnforsch** 1996;37(3):389–97

Identification of genes encoding zinc finger motifs in the cardiovascular system. Wang R, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):281–7

Transgenic animal models: new avenues in cardiovascular physiology. Franz WM, et al. **J Mol Med** 1997 Feb; 75(2):115–29

Cardiorespiratory and metabolic responses during forward and backward walking. Chaloupka EC, et al. **J Orthop Sports Phys Ther** 1997 May;25(5):302–6

Alexithymia, defensiveness and cardiovascular reactivity to stress. Linden W, et al. **J Psychosom Res** 1996 Dec; 41(6):575–83

A comparison of exercise performance on bicycle and rowing ergometers in female master recreational rowers. Wiener SP, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):176–80

Retroperitoneal and intraperitoneal CO2 insufflation have markedly different cardiovascular effects. Giebler RM, et al. **J Surg Res** 1997 Mar;68(2):153–60

Cardiovascular effects of French horn playing [letter; comment] Larger E, et al. **Lancet** 1996 Nov 30; 348(9040):1528. Comment on: Lancet 1996 Oct 12;348(9033):1042.

Acceleration plethysmography to evaluate aging effect in cardiovascular system. Using new criteria of four wave patterns. Takada H, et al. **Med Prog Technol** 1996-97; 21(4):205–10

Regulation of the systemic circulation at microgravity and during readaptation to 1G. Blomqvist GC. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S9–13 (24 ref.)

Lessons from operational cardiovascular studies in space. Charles JB, et al. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S18–22 (28 ref.)

Cardiovascular and thermal responses to SCUBA diving. Doubt TJ. **Med Sci Sports Exerc** 1996 May;28(5):581–6

Influence of gravity on cardiovascular reflexes from skeletal muscle receptors. Essfeld D, et al. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S23–8 (26 ref.)

Space research activities during missions of the past. Frey MA. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S3–8 (28 ref.)

Cardiovascular adaptation to spaceflight. Hargens AR, et al. **Med Sci Sports Exerc** 1996 Aug;28(8):977–82 (57 ref.)

Critical discussion of research issues in mechanisms of cardiovascular adaptation to actual and simulated microG. Levine BD. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S90–2; discussion S92–3

Cardiovascular and hormonal changes induced by isolation and confinement. Maillet A, et al. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S53–5

The association between cardiorespiratory fitness and prostate cancer. Oliveria SA, et al. **Med Sci Sports Exerc** 1996 Jan;28(1):97–104

Cross validation of the 1-mile walking test for men with mental retardation. Rintala P, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):133–7

Cardiovascular responses to submaximal exercise in 7- to 9-yr-old boys and girls. Turley KR, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):824–32

Influence of water run training on the maintenance of aerobic performance. Wilber RL, et al. **Med Sci Sports Exerc** 1996 Aug;28(8):1056–62

Role of reactive oxygen species in cardiovascular aging. Muscari C, et al. **Mol Cell Biochem** 1996 Jul-Aug; 160-161:159–66 (72 ref.)

Biological chemistry of thiols in the vasculature and in vascular-related disease. Stamler JS, et al. **Nutr Rev** 1996 Jan;54(1 Pt 1):1–30 (268 ref.)

Aging of the cardiovascular system. Hauss W, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):312–20 **(Eng, Fre)**

Cardiovascular and respiratory consequences of body warming during hypoxia in conscious newborn cats. Rohlicek CV, et al. **Pediatr Res** 1996 Jul;40(1):1–5

Pharmacology of reticulospinal vasomotor neurons in cardiovascular regulation. Sun MK. **Pharmacol Rev** 1996 Dec;48(4):465–94 (408 ref.)

Neural activity in the VMH associated with suppression of the circulatory system in rats. Hirasawa M, et al. **Physiol Behav** 1996 Jun;59(6):1017–23

The Role of Nitric Oxide in the Control of Cardiovascular System. Proceedings of a symposium at the 72nd annual meeting of Czech and Slovak Physiological Societies. Bratislava, February 6, 1996. **Physiol Res** 1996; 45(4):253–350

Noninvasive assessment of the developing Xenopus cardiovascular system using optical coherence tomography. Boppart SA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4256–61

Midbrain and medullary regulation of defensive cardiovascular functions. Lovick TA. **Prog Brain Res** 1996; 107:301–13 (42 ref.)

The endothelium and cardiocirculatory function, Part I. Introduction. Brutsaert DL, et al. **Prog Cardiovasc Dis** 1996 Nov-Dec;39(3):207–8

Impact of social environment characteristics on neuroendocrine regulation. Seeman TE, et al. **Psychosom Med** 1996 Sep-Oct;58(5):459–71 (159 ref.)

Adrenomedullin: a novel cardiovascular regulatory peptide.

Hanna FW, et al. **QJM** 1996 Dec;89(12):881–4 (26 ref.)

gamma–Aminobutyric acid contributes to modulation of cardiorespiratory control after chronic ventilatory loading. Rao RS, et al. **Respir Physiol** 1997 Apr;108(1):35–44

Cardiovascular autonomic regulation in asthmatic children evidenced by spectral analysis of heart rate and blood pressure variability. Jartti TT, et al.
Scand J Clin Lab Invest 1996 Oct;56(6):545–54

The cerebral regulation of cardiovascular and respiratory functions. Harper RM. **Semin Pediatr Neurol** 1996 Mar; 3(1):13–22 (81 ref.)

Cardio–respiratory physiological adaptation of pregnancy. O'Day MP. **Semin Perinatol** 1997 Aug;21(4):268–75 (68 ref.)

Cardiovascular responses to aerobic exercise during pregnancy and postpartum. Pivarnik JM.
Semin Perinatol 1996 Aug;20(4):242–9 (51 ref.)

Maternal and fetal cardiovascular response to exercise during pregnancy. Veille JC. **Semin Perinatol** 1996 Aug; 20(4):250–62 (33 ref.)

Cardiovascular reactivity in Malay Moslems during Ramadan. Husain R, et al. **Singapore Med J** 1996 Aug; 37(4):398–401

The optimum pneumoperitoneum pressure for laparoscopic surgery in the rat model. A detailed cardiorespiratory study. Berguer R, et al. **Surg Endosc** 1997 Sep;11(9):915–8

Involvement of biogenic amines and amino acids in the central regulation of cardiovascular homeostasis. Singewald N, et al. **Trends Pharmacol Sci** 1996 Oct; 17(10):356–63 (50 ref.)

Cardio–respiratory and plasma lactate responses to exercise with low draught resistances in standardbred trotters. Gottlieb–Vedi M, et al. **Zentralbl Veterinarmed A** 1996 Dec; 43(10):635–41

[The participation of nitric oxide in the functions of the central nervous system and the cardiovascular system] Krushkov I, et al. **Mol Med (Sofia)** 1996;1(2):21–7 (15 ref.) (Eng. Abstr.) **(Bul)**

[Sympathetic–vagal euqilibrium and physical exercise] Pagani M. **Cardiologia** 1997 Jul;42(7):669–80 (46 ref.) **(Ita)**

[New aspects in the evaluation of cardiologic fitness in sport activities. From the Bethesda Conference in 1994 to the Italian COCIS in 1996. Cardiologic Organizational Committee for Cardiovascular Fitness in Sport] Naccarella F, et al. **G Ital Cardiol** 1996 Dec;26(12):1507–39 (296 ref.) **(Ita)**

[Relationship between adaptation mechanisms and the level of functioning of the cardiovascular system in children with abnormalities of the large intestine and anorectal region] Agzamkhodzhaev TS, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):27–31 (Eng. Abstr.) **(Rus)**

[Indicator of adrenoreceptors in cell membranes: reference values and informative validity in the assessment of the functional state of the cardiovascular system] Dlusskaia IG, et al. **Aviakosm Ekolog Med** 1996;30(4):46–51 (Eng. Abstr.) **(Rus)**

[The role of prostaglandin E2 in the neurohumoral regulation of cardiovascular system] Savchuk VI, et al.
Biull Eksp Biol Med 1997 May;123(5):538–41 **(Rus)**

[Adaptation of the cardiovascular system in adolescents] Agadzhanian NA, et al. **Fiziol Cheloveka** 1997 Jan–Feb; 23(1):93–7 **(Rus)**

[The circadian dynamics of body temperature and of the cardiorespiratory system of the human body during non–competitive yachting] Agadzhanian NA, et al.
Fiziol Cheloveka 1997 May–Jun;23(3):63–7 **(Rus)**

[Adaptation reactions of the heart to local muscular work in preschool children] Alferova–Popova TV, et al.
Fiziol Cheloveka 1996 Sep–Oct;22(5):118–22 **(Rus)**

[New facts in the history of the doctrine of reflex control of the cardiovascular system (letter)] Bokser OIa, et al.
Fiziol Cheloveka 1997 Jan–Feb;23(1):143–4 **(Rus)**

[Status of the cardiorespiratory system in representatives of various climato–geographic regions during adaptation to to the hot climate of Central Asia] Fedorova OI, et al.
Fiziol Cheloveka 1997 Jan–Feb;23(1):25–8 **(Rus)**

[Individual reactions of the cardiovascular system in response to physical actions] Gerasimov IG, et al.
Fiziol Cheloveka 1997 May–Jun;23(3):53–7 **(Rus)**

[Physiologic features of the cardiovascular and respiratory systems in patients undergoing heart surgery under artificial circulation] Shevchenko IuL. **Fiziol Cheloveka** 1997 Mar–Apr;23(2):100–6 **(Rus)**

[Correlational adaptometry as a method for evaluating cardiovascular and respiratory interaction] Svetlichnaia GN, et al. **Fiziol Cheloveka** 1997 May–Jun;23(3):58–62 **(Rus)**

[Adaptation of the circulatory system to medium– and high–altitude hypoxia in heterozygous and homozygous adolescent twins] Zaslavskaia RM, et al.
Fiziol Cheloveka 1997 Jan–Feb;23(1):29–32 **(Rus)**

[Adrenoreceptors of cell membranes as indicators of strain of the cardiovascular system] Dlusskaia IG, et al.
Med Tr Prom Ekol 1996;(6):28–30 (Eng. Abstr.) **(Rus)**

[State of cardiovascular and blood coagulation systems during prolonged exposure to extreme stimuli] Morozov VN, et al. **Med Tr Prom Ekol** 1997;(1):5–8 (Eng. Abstr.) **(Rus)**

[Mechanism of hemodynamic effects of right cardiac shunting] Sokolov MV, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):13–5 (Eng. Abstr.) **(Rus)**

[Systems evaluation of physiological functions of humans at a workplace] Sudakov KV.
Vestn Ross Akad Med Nauk 1997;(4):18–24 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Peripheral serotonergic mechanisms in the cardiovascular system of epidermoid lung cancer patients. Filipowski T, et al. **Acta Physiol Hung** 1996;84(3):285–6

Cardiovascular regulation by endogenous nitric oxide is essential for survival after acute haemorrhage. Mellander S, et al. **Acta Physiol Scand** 1997 May;160(1):57–65

Effect of individual and work characteristics of EMTs on vital sign changes during shiftwork. Weiss SJ, et al.
Am J Emerg Med 1996 Nov;14(7):640–4

Central V1 AVP receptors are involved in cardiovascular adaptation to hypovolemia in WKY but not in SHR. Budzikowski AS, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1057–64

Development of cardiovascular responses to hypoxia in larvae of the frog Xenopus laevis. Fritsche R, et al.
Am J Physiol 1996 Oct;271(4 Pt 2):R912–7

Hypoxia and the cardiovascular response to dynamic knee–extensor exercise. Koskolou MD, et al.
Am J Physiol 1997 Jun;272(6 Pt 2):H2655–63

Cardiovascular and sympathoadrenal responses to heat stress following water deprivation in rats. Massett MP, et al.
Am J Physiol 1996 Mar;270(3 Pt 2):R652–9

Cardiovascular reflex responses to ischemia during occlusion of celiac and/or superior mesenteric arteries. Rendig SV, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H791–6

Influence of apnea on cardiovascular responses to neck suction during exercise. Sundblad P, et al.
Am J Physiol 1996 Oct;271(4 Pt 2):H1370–4

Effects of continuous venovenous hemofiltration on cardiopulmonary function in a porcine model of endotoxin–induced shock. Murphey ED, et al.
Am J Vet Res 1997 Apr;58(4):408–13

An overview of the physiological effects of sustained high +Gz forces on human being. Fong KL, et al.
Ann Acad Med Singapore 1997 Jan;26(1):94–103 (61 ref.)

Acute hypoxemia depresses the cardiorespiratory response during phase I constant load exercise and unloaded cycling. Zattara–Hartmann MC, et al. **Arch Physiol Biochem** 1996; 104(2):212–9

Advances in critical care monitoring. Barie PS.
Arch Surg 1997 Jul;132(7):734–9 (43 ref.)

Cardiovascular and hormonal changes induced by a simulation of a lunar mission. Pavy–Le Traon A, et al.
Aviat Space Environ Med 1997 Sep;68(9 Pt 1):829–37

Cardiovascular responses and interactions by neuropeptide Y in rats with congestive heart failure. Feng QP, et al.
Blood Press 1996 Sep;5(5):312–8

Cardiovascular dysfunction in insulin–dependent and non–insulin–dependent animal models of diabetes mellitus. Pierce GN, et al. **Can J Physiol Pharmacol** 1997 Apr; 75(4):343–50 (68 ref.)

Diabetes mellitus and the cardiovascular system [editorial] Feuvray D, et al. **Cardiovasc Res** 1997 Apr;34(1):1–2

Skeletal muscle and cardiovascular adaptations to exercise conditioning in older coronary patients. Ades PA, et al.
Circulation 1996 Aug 1;94(3):323–30

Fibrinolytic variables and cardiovascular prognosis in patients with stable angina pectoris treated with verapamil or metoprolol. Results from the Angina Prognosis study in Stockholm. Held C, et al. **Circulation** 1997 May 20; 95(10):2380–6

Blood pressure and heart rate variability in autonomic disorders: a critical review. Omboni S, et al.
Clin Auton Res 1996 Jun;6(3):171–82 (122 ref.)

Reproducibility of exercise–induced modulation of cardiovascular responses to cold stress. Rashed HM, et al.
Clin Auton Res 1997 Apr;7(2):93–6

Cardiovascular characteristics in normotensive subjects with or without family history of hypertension. Muiesan ML, et al. **Clin Exp Hypertens** 1996 Oct;18(7):901–20

Static–charge–sensitive bed ballistocardiography in cardiovascular monitoring. Lindqvist A, et al.
Clin Physiol 1996 Jan;16(1):23–30

Impact of disease duration on cardiovascular and pupillary autonomic nervous function in IDDM and NIDDM patients. Straub RH, et al. **Diabetes Care** 1996 Sep; 19(9):960–7

Cardiovascular Alterations in Diabetes Mellitus: Workshop of the International Society for Heart Research XVth World Congress. Budapest, Hungary. Proceedings.
Diabetes Res Clin Pract 1996 Jul;31 Suppl:S1–171

Insulin and insulin–like growth factor in normal and pathological cardiovascular physiology [clinical conference] Sowers JR. **Hypertension** 1997 Mar;29(3):691–9 (157 ref.)

Thermal, cardiovascular & thermogenic responses to mild cold exposure in chronically energy deficient human subjects. Vaz M, et al. **Indian J Med Res** 1997 Apr; 105:180–6

Cardiorespiratory and renal responses to arterial chemoreceptor stimulation in early hypertension. Ledderhos C, et al. **Int J Clin Pharmacol Ther** 1996 Nov; 34(11):470–6

Attenuation of cardiovascular reactions of vocalized and non–vocalized defence areas of periaqueductal grey following lesions in dorsomedial or ventrolateral medulla of cats. Chai CY, et al. **J Auton Nerv Syst** 1997 Jun 6; 64(2–3):115–27

Metabolic and cardiovascular assessment in moderate obesity: effect of weight loss. Muscelli E, et al.
J Clin Endocrinol Metab 1997 Sep;82(9):2937–43

Cardiovascular response to physical stress in offspring of hypertensive parents: Dutch Hypertension and Offspring Study. de Visser DC, et al. **J Hum Hypertens** 1996 Dec; 10(12):781–8

Arterial tonometry and assessment of cardiovascular alterations with chiropractic spinal manipulative therapy. Driscoll MD. **J Manipulative Physiol Ther** 1997 Jan; 20(1):47–55 (95 ref.)

Participation of the pituitary–thyroid axis in the cardiovascular system in elderly patients with congestive heart failure. Kimura T, et al. **J Med** 1997;28(1–2):75–80

Postnatal development of the pattern of respiratory and cardiovascular response to systemic hypoxia in the piglet: the roles of adenosine. Elnazir B, et al.
J Physiol (Lond) 1996 Apr 15;492 (Pt 2):573–85

Clinical models of cardiovascular regulation after weightlessness. Robertson D, et al.
Med Sci Sports Exerc 1996 Oct;28(10 Suppl):S80–4 (28 ref.)

Cardiovascular aspects in acromegaly: effects of treatment. Lombardi G, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):57–60

Cardiovascular function during cognitive stress in men before and after coronary artery bypass grafts. McFetridge JA, et al. **Nurs Res** 1997 Jul–Aug;46(4):188–94

The circadian variation of cardiovascular stress levels and reactivity: relationship to individual differences in morningness/eveningness. Nebel LE, et al.
Psychophysiology 1996 May;33(3):273–81

Effects of chronic central administration of losartan on the cardiovascular and hormonal responses to hemorrhage in conscious rats. Yang EK, et al. **Regul Pept** 1996 Dec 3; 67(2):107–13

Cerebrovascular and cardiovascular responses to graded tilt in patients with autonomic failure. Bondar RL, et al.
Stroke 1997 Sep;28(9):1677–85

Cerebrovascular and cardiovascular measurements during neurally mediated syncope induced by head–up tilt. Schondorf R, et al. **Stroke** 1997 Aug;28(8):1564–8

Cardiopulmonary changes with moderate decompression in rats. Butler BD, et al. **Undersea Hyperb Med** 1996 Jun; 23(2):83–9

[Cardiovascular system physiopathology in thyroid dysfunction] Cherchi A, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):155–8 **(Ita)**

[Cardiovascular effects of autonomic neuropathy in insulin–dependent diabetes mellitus] Galetta F, et al.
Cardiologia 1995 Oct;40(10):769–73 (Eng. Abstr.) **(Ita)**

[Thyrotoxicosis and the cardiovascular system] Mercuro G, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):159–65 **(Ita)**

[Chronic noise exposure and the cardiovascular system in aircraft pilots] Tomei F, et al. **Med Lav** 1996 Sep–Oct; 87(5):394–410 (Eng. Abstr.) **(Ita)**

[Thyroid hormone and cardiovascular system] Akatsu T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):18–21 (18 ref.) **(Jpn)**

[Cardiovascular changes in Cushing's syndrome and primary aldosteronism] Terano T. **Ryoikibetsu Shokogun Shirizu** 1996;(15):30–2 (26 ref.) **(Jpn)**

[Adaptational disorders of the cardiovascular regulation during brief exposure to hypobaric hypoxia] Karlov VN, et al. **Aviakosm Ekolog Med** 1996;30(5):19–22 (Eng. Abstr.) **(Rus)**

[Stress: cardiologic aspects] Fedorov BM.
Fiziol Cheloveka 1997 Mar–Apr;23(2):89–99 **(Rus)**

[Changes in cardiovascular function of ischemic heart disease patients on the course of rehabilitation at low–mountain health resort after surgical revascularization of myocardium] Amiiants VI, et al. **Klin Med (Mosk)** 1997; 75(2):26–8 (Eng. Abstr.) **(Rus)**

[Pre– and postsurgical treatment condition of cardiovascular and endocrine systems in patients with endogenic hypercorticism] Shustov SV, et al. **Klin Med (Mosk)** 1996; 74(7):33–6 **(Rus)**

[Stress–induced hemodynamic changes in shepherds during migration and winter stay in the mountains] Bekbolotova AK, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):15–8 **(Rus)**

[The functional status of the cardiovascular system in the late period after the combined therapy of patients with lymphogranulomatosis] Balashov AT, et al. **Ter Arkh** 1996; 68(12):12–4 (Eng. Abstr.) **(Rus)**

[Cardiovascular system function in patients with chronic kidney failure on hemodialysis] Rzhevskaia ON, et al.
Urol Nefrol (Mosk) 1997 Mar–Apr;(2):45–51 (159 ref.) **(Rus)**

[The reaction of the cardiovascular system to terrain cure in patients with ischemic heart disease who have undergone surgical myocardial revascularization] Amiiants VIu, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1997 Jan–Feb;(1):3–4 (Eng. Abstr.) **(Rus)**

[The psychoemotional status and cardiovascular system function of patients with ischemic heart disease and hypertension receiving physio– and balneotherapy] Lebedeva OD, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1997 Mar–Apr; (2):10–2 (Eng. Abstr.) **(Rus)**

CARDIOVASCULAR SYSTEM

RADIATION EFFECTS

Body heating induced by sub-resonant (350 MHz) microwave irradiation: cardiovascular and respiratory responses in anesthetized rats. Jauchem JR, et al. **Bioelectromagnetics** 1997;18(4):335-8

[Quantitative patterns in the clinical manifestations of radiation sickness in large laboratory animals exposed to radiation at superlethal doses. Changes in the regulation of cardiovascular system function] Darenskaia NG, et al. **Radiats Biol Radioecol** 1997 May-Jun;37(3):431-7 (Eng. Abstr.) **(Rus)**

[Functional changes in the cardiovascular system in exposure to ionizing radiation against a background of stress and concomitant diseases] Momot MD, et al. **Voen Med Zh** 1996 Sep;317(9):38-42 **(Rus)**

RADIOGRAPHY

Advances in Ultrafast Computed Tomography: 1996. An International Symposium on Electron Beam Tomography. Lake Buena Vista, Florida, October 4-6, 1996. Abstracts. **Am J Card Imaging** 1996 Apr;10(2 Suppl 1):1-13

SURGERY

A new biologic membrane in cardiovascular surgery. Shawarby AO, et al. **ASAIO J** 1997 May-Jun;43(3):160-2

Direct measurement of clamping forces in cardiovascular surgery. Trobec R, et al. **Med Biol Eng Comput** 1997 Jan; 35(1):17-20

ULTRASONOGRAPHY

Two patients with asymmetric crying facies, normal cardiovascular systems and deletion of chromosome 22q11. Stewart HS, et al. **Clin Dysmorphol** 1997 Apr;6(2):165-9

CARDIOVERSION see **ELECTRIC COUNTERSHOCK**

CARDIOVERTER-DEFIBRILLATORS, IMPLANTABLE see **DEFIBRILLATORS, IMPLANTABLE**

CARDIOVIRUS

ISOLATION & PURIFICATION

Absence of entero- and cardioviral RNA in multiple sclerosis brain tissue. Dessau RB, et al. **Acta Neurol Scand** 1997 May; 95(5):284-6

METABOLISM

Mengovirus leader is involved in the inhibition of host cell protein synthesis. Zoll J, et al. **J Virol** 1996 Aug; 70(8):4948-52

CARDIOVIRUS INFECTIONS

COMPLICATIONS

Possible role of macrophage-derived soluble mediators in the pathogenesis of encephalomyocarditis virus-induced diabetes in mice. Hirasawa K, et al. **J Virol** 1997 May; 71(5):4024-31

IMMUNOLOGY

The immunogenic and pathogenic potential of short poly(C) tract Mengo viruses. Osorio JE, et al. **Virology** 1996 Sep 15;223(2):344-50

METABOLISM

Persistent expression of cytokine in the chronic stage of viral myocarditis in mice. Shioi T, et al. **Circulation** 1996 Dec 1;94(11):2930-7

PATHOLOGY

Variation in serum creatine phosphokinase activity as indicated in two-phase EMC-D virus-induced myocarditis. Mizutani M, et al. **Exp Anim** 1996 Oct; 45(4):333-8

The poly(C) region affects progression of encephalomyocarditis virus infection in Langerhans' islets but not in the myocardium. Zimmermann A, et al. **J Virol** 1997 May;71(5):4145-9

PHYSIOPATHOLOGY

Expression of intracellular interferon constitutively activates ISGF3 and confers resistance to EMC viral infection. Rutherford MN, et al. **J Interferon Cytokine Res** 1996 Jul; 16(7):507-10

PREVENTION & CONTROL

Protection of non-murine mammals against encephalomyocarditis virus using a genetically engineered Mengo virus. Osorio JE, et al. **Vaccine** 1996 Feb; 14(2):155-61

THERAPY

Enhancement by muramyl peptides of the protective response of interferon-alpha/beta against encephalomyocarditis virus infection. Pouillart PR, et al. **Int J Immunopharmacol** 1996 Mar;18(3):183-92

VETERINARY

Rapid diagnosis of encephalomyocarditis virus infections in pigs using a reverse transcription-polymerase chain reaction. Vanderhallen H, et al. **J Virol Methods** 1997 Jun; 66(1):83-9

Encephalomyocarditis virus infections in an Australian zoo. Reddacliff LA, et al. **J Zoo Wildl Med** 1997 Jun;28(2):153-7

Serum creatine kinase-MB and lactate dehydrogenase-1 isoenzyme activities in piglets with encephalomyocarditis virus. Billinis C, et al. **Vet Rec** 1997 Jun 14;140(24):628-9

Comparative study of the pathogenic properties of a Belgian and a Greek encephalomyocarditis virus (EMCV) isolate for sows in gestation. Koenen F, et al. **Zentralbl Veterinarmed [B]** 1997 Jul;44(5):281-6

VIROLOGY

Detection of viral RNA by electron microscopic in situ hybridization (ISH-EM) in the germinal epithelium of mice infected with encephalomyocarditis (EMC) virus. Ueno A, et al. **Exp Anim** 1997 Jan;46(1):79-81

An age-related change in susceptibility of rat brain to encephalomyocarditis virus infection. Ikegami H, et al. **Int J Exp Pathol** 1997 Apr;78(2):101-7

The shiverer mutation affects the persistence of Theiler's virus in the central nervous system. Bihl F, et al. **J Virol** 1997 Jul;71(7):5025-30

Analysis of sequence and pathogenic properties of two variants of encephalomyocarditis virus differing in a single amino acid in VP1. Nelsen-Salz B, et al. **Virus Res** 1996 Apr;41(2):109-22

CAREER CHOICE

The effect of an ambulatory internal medicine rotation on students' career choices. Bauer RL, et al. **Acad Med** 1997 Feb;72(2):147-9

A study of medical students' specialty-choice pathways: trying on possible selves. Burack JH, et al. **Acad Med** 1997 Jun;72(6):534-41

Modifying the culture of medical education: the first three years of the RWJ Generalist Physician Initiative. Colwill JM, et al. **Acad Med** 1997 Sep;72(9):745-53 (34 ref.)

The shift to primary care: emerging influences on specialty choice. Ellsbury KE, et al. **Acad Med** 1996 Oct;71(10 Suppl):S16-8

Career choices among Saudi medical students. al-Faris E, et al. **Acad Med** 1997 Jan;72(1):65-7

PBL and primary care career choice: a complex relationship. Fields SK, et al. **Acad Med** 1996 Sep;71(9):939-40

Influence of gender on specialty choices in a Brazilian medical school. Figueiredo JF, et al. **Acad Med** 1997 Jan; 72(1):68-70

Frequency and effect of negative comments ("badmouthing") on medical students' career choices. Hunt DD, et al. **Acad Med** 1996 Jun;71(6):665-9

Encouraging women to pursue surgery residencies [letter] Jeffe DB, et al. **Acad Med** 1997 Sep;72(9):735

Gender and interest in academic careers among first- and third-year residents. Leonard JC, et al. **Acad Med** 1996 May;71(5):502-4

Impact of increasing women medical school matriculates on primary care residency training choices: a five-year perspective. Litzelman DK, et al. **Acad Med** 1996 Oct;71(10 Suppl):S13-5

Generalist intentions of medical school graduates [letter; comment] Markert RJ. **Acad Med** 1996 May;71(5):413-4. Comment on: Acad Med 1995 Dec;70(12):1152-7.

Job security concerns and specialty choice [letter] Markham FW Jr. **Acad Med** 1996 Jun;71(6):576

Insights into medical students' career choices based on third- and fourth-year students' focus-group discussions. Mutha S, et al. **Acad Med** 1997 Jul;72(7):635-40

School policies and primary care careers [letter; comment] Nkanginieme KE. **Acad Med** 1996 Sep;71(9):934-5. Comment on: Acad Med 1996 Mar;71(3):293-5.

Does exposure to gender discrimination and sexual harassment impact medical students' specialty choices and residency program selections? Nora LM, et al. **Acad Med** 1996 Oct;71(10 Suppl):S22-4

Patient variety in residency, and generalist career choice [letter] O'Connell D. **Acad Med** 1997 Feb;72(2):91

Medical education and physicians' career choices: are we taking credit beyond our due? [see comments] Pathman DE. **Acad Med** 1996 Sep;71(9):963-8. Comment in: Acad Med 1997 Feb;72(2):87-8. Comment in: Acad Med 1997 Jun;72(6):469-70.

Debt and career choices of underrepresented minorities [letter; comment] Rico M, et al. **Acad Med** 1997 Aug; 72(8):657-9. Comment on: Acad Med 1997 Feb;72(2):94-5.

Trends along the debt-income axis: implications for medical students' selections of family practice careers. Rosenthal MP, et al. **Acad Med** 1996 Jun;71(6):675-7

Rural family practice program for first-year students [letter] Seim HC. **Acad Med** 1997 Sep;72(9):735-6

A systematic analysis of how medical school characteristics relate to graduates' choices of primary care specialties. Senf JH, et al. **Acad Med** 1997 Jun;72(6):524-33

Predicting who will enter family medicine [letter; comment] Senf JH, et al. **Acad Med** 1996 Aug;71(8):813-4. Comment on: Acad Med 1996 Feb;71(2):198-209.

Determinants of specialty choice of physician assistants. Singer AM, et al. **Acad Med** 1996 Aug;71(8):917-9

Internal medicine residents' assessment of the subspecialty fellowship application process. Smith LG, et al. **Acad Med** 1997 Feb;72(2):152-4

Why do medical students from underrepresented minorities choose--or not choose--primary care careers? [see comments] Tekian A, et al. **Acad Med** 1997 Feb;72(2):94-5 . Comment in: Acad Med 1997 Aug;72(8):657-9.

Overlooked variables in students' career choices [letter; comment] Weissman S. **Acad Med** 1997 Feb;72(2):87-8. Comment on: Acad Med 1996 Sep;71(9):963-8.

The competitive funding process as a stimulus to change [letter] Wilson ME, et al. **Acad Med** 1996 Sep;71(9):935-6

Possible influences of clerkship timing and site on residency choice [letter] Wilson WG. **Acad Med** 1997 Jul;72(7):567

Factors influencing learners' specialty decisions [letter; comment] Xu G, et al. **Acad Med** 1997 Jun;72(6):469-70 . Comment on: Acad Med 1996 Sep;71(9):963-8.

A national study of factors influencing primary care career choices among underrepresented-minority, white, and Asian American physicians. Xu G, et al. **Acad Med** 1996 Oct;71(10 Suppl):S10-2

Nuclear radiology: the forgotten fellowship. A very personal perspective. Davis LP. **Acad Radiol** 1996 Jan;3(1):80-3

Medical students who choose a radiology elective: career decisions, motivations, and intentions [letter] Hall FM, et al. **Acad Radiol** 1996 Jan;3(1):91-2

Choosing an academic career. Halpern EJ. **Acad Radiol** 1997 Aug;4(8):612-5

Medical students' attitudes toward radiology: comparison of matriculating and graduating students. Kazerooni EA, et al. **Acad Radiol** 1997 Aug;4(8):601-7

Leadership qualities in prominent neurosurgeons. Brock M. **Acta Neurochir Suppl (Wien)** 1997;69:8-11

The interest of trainees in working with seriously mentally ill persons. O'Hare T. **Adm Policy Ment Health** 1997 Jan; 24(3):235-42

Curricular track, career choice, and androgyny among adolescent females. Wulff MB, et al. **Adolescence** 1997 Spring;32(125):43-9

Deaf adults' attitudes toward career choices for deaf and hearing people in India. Parasnis I, et al. **Am Ann Deaf** 1996 Dec;141(5):333-9

Attitudes of teachers and parents in India toward career choices for deaf and hearing people. Parasnis I, et al. **Am Ann Deaf** 1996 Oct;141(4):303-8

The private insurance industry's tactics against suspected homosexuals: redlining based on occupation, residence and marital status. Li KC. **Am J Law Med** 1996;22(4):477-502 (202 ref.)

General internists influence students to choose primary care careers: the power of role modeling. Henderson MC, et al. **Am J Med** 1996 Dec;101(6):648-53

Making the transition to home care nursing. Benefield LE. **Am J Nurs** 1996 Oct;96(10):47-9

The unseen force. Voelpel PE. **Am J Nurs** 1997 Mar;97(3):50

Academic integration of occupational therapy faculty: a survey. Vassantachart DS, et al. **Am J Occup Ther** 1997 Jul-Aug;51(7):584-8

Choosing a career in psychiatry [letter; comment] Cutler J. **Am J Psychiatry** 1996 Oct;153(10):1372-3. Comment on: Am J Psychiatry 1995 Oct;152(10):1413-4. Comment on: Am J Psychiatry 1995 Oct;152(10):1416-26.

Choosing a career in psychiatry [letter; comment] Kirchner JE, et al. **Am J Psychiatry** 1996 Oct;153(10):1372; discussion 1373. Comment on: Am J Psychiatry 1995 Oct;152(10):1416-26.

The impact of gender on the choice of surgery as a career. Baxter N, et al. **Am J Surg** 1996 Oct;172(4):373-6

Recruitment of minority students to U.S. epidemiology degree programs. The American College of Epidemiology Committee on Minority Affairs. St. George DM, et al. **Ann Epidemiol** 1997 May;7(4):304-10

Balancing family and career: men are in the trenches, too [letter; comment] Holmes W. **Ann Intern Med** 1997 Apr 15;126(8):670. Comment on: Ann Intern Med 1996 Oct 1;125(7):618-20.

Women and career development: a decade of research. Phillips SD, et al. **Annu Rev Psychol** 1997;48:31-59 (255 ref.)

The Student Pediatric Society: an intervention to promote a career in pediatrics. Kaplan KM. **Arch Pediatr Adolesc Med** 1997 May;151(5):528-30

Options in education for advanced trainees in isolated general practice. Hays RB, et al. **Aust Fam Physician** 1996 Mar; 25(3):362-6

Changes in job aspirations during physician training in Australia. Kanagarajah S, et al. **Aust N Z J Med** 1996 Oct; 26(5):652-7

Career paths of obstetricians and gynaecologists trained at the Royal Women's Hospital, Melbourne. Ratten G. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):74-5

George Adlington Syme Oration. Surgery: a suitable career for women? Mansfield A. **Aust N Z J Surg** 1996 Dec; 66(12):787-90

What factors influence the career decisions of young veterinarians? [editorial] **Aust Vet J** 1996 Oct;74(4):289-90

"What advice would you give to a high school student considering a career in veterinary science?" **Aust Vet J** 1996 Aug;74(2):110-1

A longitudinal study of veterinary students and recent graduates. 1. Backgrounds, plans and subsequent

employment. Heath TJ, et al. **Aust Vet J** 1996 Oct; 74(4):291–6
A longitudinal study of veterinary students and recent graduates. 4. Gender issues. Heath TJ, et al. **Aust Vet J** 1996 Oct;74(4):305–8
Careers in academic medicine. It's surprising that any juniors consider careers in academic medicine [letter] Baker R, et al. **BMJ** 1997 Sep 6;315(7108):608
Why do medical students choose St Mary's Hospital Medical School? Baron JH. **BMJ** 1996 Dec 21–28;313(7072):1646–7
Intentions of newly qualified doctors to practise in the United Kingdom [see comments] Lambert TW, et al. **BMJ** 1997 May 31;314(7094):1591–2. Comment in: BMJ 1997 May 31;314(7094):1567–8.
British doctors are not disappearing [editorial; comment] Richards P, et al. **BMJ** 1997 May 31;314(7094):1567–8. Comment on: BMJ 1997 May 31;314(7094):1591–2.
Career preferences of medical students: influence of a new four–week attachment in general practice [see comments] Morrison JM, et al. **Br J Gen Pract** 1996 Dec;46(413):721–5 . Comment in: Br J Gen Pract 1997 Mar;47(416):184–5.
Career preferences of medical students: some unanswered questions [editorial] Morrissy JR. **Br J Gen Pract** 1996 Dec; 46(413):703–4
Career preferences of medical students: some further answers [letter; comment] Pitts J. **Br J Gen Pract** 1997 Mar; 47(416):184–5. Comment on: Br J Gen Pract 1996 Dec;46(413):721–5.
So you want to train in radiology. Armstrong P. **Br J Hosp Med** 1996 Jun 5–18;55(11):701–2
Survey of dental graduates entering medical schools and a comparison with previous surveys. Magennis P, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):438–45
"Why I would like to become a family physician" [letter] Nguyen TN. **Can Fam Physician** 1996 Jan;42:28
Negative health care environment weighing on residents, survey reveals. Rafuse J. **Can Med Assoc J** 1997 Apr 15; 156(8):1186
Little room for error in Canada's postgraduate training system [see comments] Robertson S. **Can Med Assoc J** 1997 Mar 1;156(5):682–4. Comment in: CMAJ 1997 Jun 15;156(12):1701. Comment in: CMAJ 1997 Jul 15;157(2):134, 136; discussion 139. Comment in: CMAJ 1997 Jul 15;157(2):136, 138; discussion 139. Comment in: CMAJ 1997 Jul 15;157(2):138.
The development of occupational aspirations and expectations among inner–city boys. Cook TD, et al. **Child Dev** 1996 Dec;67(6):3368–85
Can we finally change the system? [letter; comment] Becker AB. **CMAJ** 1997 Jul 15;157(2):136; discussion 139. Comment on: Can Med Assoc J 1997 Mar 1;156(5):665–7.
Can we finally change the system? [letter; comment] Marshall DG. **CMAJ** 1997 Jul 15;157(2):138. Comment on: Can Med Assoc J 1997 Mar 1;156(5):682–4.
Our future physicians deserve better [letter; comment] Marshall DG. **CMAJ** 1997 Jun 15;156(12):1701. Comment on: Can Med Assoc J 1997 Mar 1;156(5):682–4.
Can we finally change the system? [letter; comment] Narini P. **CMAJ** 1997 Jul 15;157(2):134, 136; discussion 139. Comment on: Can Med Assoc J 1997 Mar 1;156(5):665–7. Comment on: Can Med Assoc J 1997 Mar 1;156(5):682–4.
Can we finally change the system? [letter; comment] Smith DH. **CMAJ** 1997 Jul 15;157(2):136, 138; discussion 139. Comment on: Can Med Assoc J 1997 Mar 1;156(5):665–7. Comment on: Can Med Assoc J 1997 Mar 1;156(5):682–4.
Mercer University School of Medicine: a successful approach to primary care medical education [see comments] Ackermann RJ, et al. **Fam Med** 1996 Jun;28(6):395–402. Comment in: Fam Med 1996 Jun;28(6):439–40.
Characteristics of medical students by level of interest in family practice. Bowman MA, et al. **Fam Med** 1996 Nov–Dec;28(10):713–9
Health career orientation of Oregon high school students. Elder N, et al. **Fam Med** 1997 Feb;29(2):108–11
Confessions of a recovering internist. Fournier AM. **Fam Med** 1996 Jul–Aug;28(7):511–2
First–year medical students' knowledge of and attitudes toward primary care careers. Grayson MS, et al. **Fam Med** 1996 May;28(5):337–42
Standardized examination performance and specialty choice. Lynch DC, et al. **Fam Med** 1997 Jun;29(6):421–3
Family practice residency behavioral science training: influence on graduate practice activity. Prislin MD, et al. **Fam Med** 1997 Jul–Aug;29(7):483–7
Personal values related to primary care specialty aspirations. Schubot DB, et al. **Fam Med** 1996 Nov–Dec;28(10):726–31
Reasons for choice of family practice are debated [letter] Senf JH. **Fam Med** 1997 Jul–Aug;29(7):458–9
'Ending up a GP': a qualitative study of junior doctors' perceptions of general practice as a career. Petchey R, et al. **Fam Pract** 1997 Jun;14(3):194–8
Physicians ... government has been encouraging doctors to opt for careers in primary care [news] **Hosp Health Netw** 1997 Feb 20;71(4):11–2
Compensation. Show them the money. Hudson T. **Hosp Health Netw** 1997 May 5;71(9):40, 42
Impact of managed care on medical students. Hawley C. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):187–8
Options: academic and/or otherwise. Bhargava SK. **Indian Pediatr** 1997 Mar;34(3):227–31
Nursing care as a calling. Raatikainen R. **J Adv Nurs** 1997 Jun;25(6):1111–5
Constructing career pathways in nursing: some issues for research and policy. Robinson S, et al. **J Adv Nurs** 1997 Mar;25(3):602–14
Postgraduate education expectations: a survey of Hong Kong graduate nurses. Simsen BJ, et al. **J Adv Nurs** 1996 Oct; 24(4):827–35
Why would anyone want to become a cardiologist these days? [editorial] Parmley WW. **J Am Coll Cardiol** 1997 Sep;30(3):843–4
Would you do it again? [editorial] Meskin LH. **J Am Dent Assoc** 1996 Dec;127(12):1696, 1698
Influences on the selection of dietetics as a career. Kobel KA. **J Am Diet Assoc** 1997 Mar;97(3):254–7
Taking steps toward a more diverse association [letter; comment] Matthews L, et al. **J Am Diet Assoc** 1997 May; 97(5):472. Comment on: J Am Diet Assoc 1996 Dec;96(12):1242–4.
Men and women in optometry. II. Attitudes toward career and family. Voorhees LI, et al. **J Am Optom Assoc** 1997 Jul;68(7):435–47
Informing public, students will make profession 'visible' [letter; comment] Bahrami P. **J Am Osteopath Assoc** 1997 Jun;97(6):330. Comment on: J Am Osteopath Assoc 1997 Mar;97(3):168–70.
In pursuit of generalism: basic factors influencing the specialty decisions of osteopathic medical school seniors in 1995. Singer AM. **J Am Osteopath Assoc** 1996 Nov; 96(11):699–703
A national study of factors influencing the career choice of osteopathic and allopathic family physicians. Xu G, et al. **J Am Osteopath Assoc** 1996 Dec;96(12):737–42
Tufts leads international veterinary medicine [letter] Robinson RA. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):1993
College majors and career choices of minority high school student research apprentices. Thurmond VB, et al. **J Assoc Acad Minor Phys** 1996;7(1):22–4
Motivational factors in the choice of postdoctoral general dentistry programs. Lockhart PB, et al. **J Dent Educ** 1997 Mar;61(3):297–304
Pediatric dentistry faculty profile and plans to remain active. Roberts MW, et al. **J Dent Educ** 1997 Jun;61(6):489–92
The roles of personal investment and reasoning competence in career–relevant everyday problem solving. Klaczynski PA. **J Exp Child Psychol** 1997 Aug;66(2):193–210
Career paths for clinical scientists. Farrell GC. **J Gastroenterol Hepatol** 1996 Sep;11(9):891–4
Honor our role models [editorial; comment] Linzer M, et al. **J Gen Intern Med** 1997 Jan;12(1):76–7. Comment on: J Gen Intern Med 1997 Jan;12(1):53–6.
Physician role conflict and resulting career changes. Gender and generational differences. Warde C, et al. **J Gen Intern Med** 1996 Dec;11(12):729–35
The impact of role models on medical students [see comments] Wright S, et al. **J Gen Intern Med** 1997 Jan; 12(1):53–6. Comment in: J Gen Intern Med 1997 Jan;12(1):76–7.
Developing generalists for Kentucky. Blue AV, et al. **J Ky Med Assoc** 1996 Oct;94(10):439–45
Factors influencing medical students' choice of academic medicine as a career. Donnelly MB, et al. **J Ky Med Assoc** 1996 May;94(5):186–90
Why graduates of the LSU School of Medicine, New Orleans choose primary care careers. Gatipon BB, et al. **J La State Med Soc** 1996 Jul;148(7):291–5
Issues in recruitment and retention of minority nursing students. Dowell MA. **J Nurs Educ** 1996 Oct;35(7):293–7 (43 ref.)
Baccalaureate student gerontological nursing experiences: raising consciousness levels and affecting attitudes. Fox SD, et al. **J Nurs Educ** 1996 Nov;35(8):348–55
Why students choose nursing. Williams B, et al. **J Nurs Educ** 1997 Sep;36(7):346–8
The gender gap in occupational role attainment: a social dominance approach. Pratto F, et al. **J Pers Soc Psychol** 1997 Jan;72(1):37–53
Comparison of recent graduates of clinical versus counseling psychology programs. Brems C, et al. **J Psychol** 1997 Jan; 131(1):91–9
Masculinity, femininity, and Hispanic professional men's self–esteem and self–acceptance. Long VO, et al. **J Psychol** 1997 Sep;131(5):481–8
Targeting medical students to promote women in surgery. Wilson JA, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):217–8
A piece of my mind. Ambivalence. Greengold NL. **JAMA** 1997 Jul 23–30;278(4):268
Medical career choices in an era of change [editorial] Huang LY. **JAMA** 1997 Jan 1;277(1):68
The journey back. A physician retrains. Mullan F. **JAMA** 1997 Jul 23–30;278(4):281–3
The impending physician surplus: is it time to quit? Reinhardt U. **JAMA** 1997 Jan 1;277(1):69
The effects of the change in the NRMP matching algorithm. National Resident Matching Program. Roth AE, et al. **JAMA** 1997 Sep 3;278(9):729–32
Physician supply and the shifting paradigm of medical student choice. Ruhnke GW. **JAMA** 1997 Jan 1;277(1):70–1
The new match [editorial] Scotti MJ Jr. **JAMA** 1997 Sep 3;278(9):764
13 nurses tell us, why i'm proud to be an MCH nurse. Biancuzzo M, et al. **MCN Am J Matern Child Nurs** 1996 Jan–Feb;21(1):34–42
Choices of careers in medicine: some theoretical and methodological issues [editorial] Dohn H. **Med Educ** 1996 May;30(3):157–60
Specialty choice and understanding of primary care among Japanese medical students. Ohtaki J, et al. **Med Educ** 1996 Sep;30(5):378–84
Medical school entrance and career plans of Malaysian medical students. Razali SM. **Med Educ** 1996 Nov; 30(6):418–23
Changing jobs: an essential part of career development. Pumpian I, et al. **Ment Retard** 1997 Feb;35(1):39–48 (50 ref.)
Getting medical students into the trenches. The North Carolina AHEC's Offices of Regional Primary Care Education (ORPCEs). Shaffer VD, et al. **N C Med J** 1996 Sep–Oct;57(5):312–5
Challenges for women in forensic psychiatry. Ednie KJ. **New Dir Ment Health Serv** 1996 Spring;(69):43–8
I think you should get a job as a nurse. Hanson KS. **Nurs Hist Rev** 1997;5:71–82
Choosing a practice: key issues to consider. Mackey TA, et al. **Nurse Pract** 1996 Dec;21(12 Pt 1):87–8, 91
Career preferences of pediatric dentistry advanced education students. Roberts MW, et al. **Pediatr Dent** 1997 Mar–Apr; 19(2):104–8
Factors that affect career choices of pediatric dentistry advanced education students. Roberts MW, et al. **Pediatr Dent** 1997 Jul–Aug;19(5):317–20
Re "Martha Tomek" [letter; comment] Atkins TN. **Pharos** 1996 Fall;59(4):36. Comment on: Pharos 1996 Spring;59(2):20–3.
Re "Martha Tomek" [letter; comment] DeWys W. **Pharos** 1996 Fall;59(4):36–7. Comment on: Pharos 1996 Spring;59(2):20–3.
Fostering science and science careers. Frazier DT. **Physiologist** 1997 Aug;40(4):133, 139–40
Medical students' specialty choice and the need for primary care. Our future. Rosenthal MP, et al. **Prim Care** 1996 Mar; 23(1):155–67 (79 ref.)
Job preferences of clients with severe psychiatric disorders participating in supported employment programs. Becker DR, et al. **Psychiatr Serv** 1996 Nov;47(11):1223–6
Gender differences in attitudes and recruitment into psychiatry [comment] Eagles JM. **Psychol Rep** 1996 Apr; 78(2):653–4. Comment on: Psychol Rep 1995 Dec;77(3 Pt 1):843–7.
Personality and educational choice of general versus vocational studies among 16– to 19–year–olds. Halvari H. **Psychol Rep** 1996 Jun;78(3 Pt 2):1379–88
Profiles of Hispanic adolescents and adults on the Holland Themes and Basic Interest Scales of the Strong Interest Inventory. Kaufman AS, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1279–88
Psychosocial beliefs of medical students planning to specialize in family medicine. Markham FW, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):987–92
Occupational aspirations of black South African adolescents. Watson MB, et al. **Psychol Rep** 1997 Apr;80(2):627–35
Work in clinical research—without a medical degree. Ruediger N. **Science** 1997 Oct 3;278(5335):153
For self–starting scientists a "model" career awaits. Ruediger N. **Science** 1997 Aug 1;277(5326):705
Women physicians in Quebec. De Koninck M, et al. **Soc Sci Med** 1997 Jun;44(12):1825–32
Physician location survey: self–reported and census–defined rural/urban locations. Lin GE, et al. **Soc Sci Med** 1997 Jun;44(11):1761–6
A profession in retreat [letter] Kushner J. **Surg Neurol** 1997 Sep;48(3):312–3
Contract research pharmacology. Chapman ID. **Trends Pharmacol Sci** 1996 Feb;17(2):60–1
Working from home: freelance medical writing. Elmhirst DN. **Trends Pharmacol Sci** 1996 Feb;17(2):64
Careers in pharmaceutical clinical development. Freeman J. **Trends Pharmacol Sci** 1996 Feb;17(2):63
Careers in pharmacology: the German perspective. Frolich JC. **Trends Pharmacol Sci** 1996 Feb;17(2):47–9
Careers in the media: life one step away from research. Halliday AJ. **Trends Pharmacol Sci** 1996 Feb;17(2):65
The agonists and the ecstasy: life as an academic pharmacologist. Martin W. **Trends Pharmacol Sci** 1996 Feb; 17(2):51–3
Pharmacology and biotechnology: a career in clinical development. Ney UM. **Trends Pharmacol Sci** 1996 Feb; 17(2):62–3
Careers in clinical pharmacology: present status and future academic perspectives in Japan. Ohnishi A, et al. **Trends Pharmacol Sci** 1996 Feb;17(2):45–7
Academic research: K+ channels and an affair of the heart. Rees SA. **Trends Pharmacol Sci** 1996 Feb;17(2):53–5
Preclinical industrial research. Salvemini D. **Trends Pharmacol Sci** 1996 Feb;17(2):58–60
Careers in pharmacology: an Australian academic perspective. Seale JP. **Trends Pharmacol Sci** 1996 Feb; 17(2):34–6
Life as an academic clinical pharmacologist. Webb DJ. **Trends Pharmacol Sci** 1996 Feb;17(2):55–7
Integration of women into the profession [letter] Nuttall T. **Vet Rec** 1997 Jun 14;140(24):635
Do premedical students know what they are getting into? [see comments] Chuck JM. **West J Med** 1996 Mar; 164(3):228–30. Comment in: West J Med 1996

CAREER CHOICE

Dec;165(6):398.
Effect of changes in the health care system on the career outlook of University of Washington, Seattle, medical students. Piehl JH, et al. **West J Med** 1996 Mar; 164(3):217–21
[Am I to be a researcher?] Palo J. **Duodecim** 1995; 111(19):1827–30 **(Fin)**
[100 years after Billroth: "Who has surgical abilities"?] Horn J. **Chirurg** 1996 Sep;67(9):suppl 211–4 **(Ger)**
[Survey about the motivation for the study of veterinary medicine in Croatia] Korenčić–Kampl K, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Apr;103(4):123–5 (Eng. Abstr.) **(Ger)**
[Hope for delaying demise] Wagner B. **Fortschr Med** 1997 Jun 10;115(16):66–9 **(Ger)**
[Educational and occupational expectations of tomorrow's generation of physicians] Weber A, et al. **Gesundheitswesen** 1996 Dec;58(12):629–34 (Eng. Abstr.) **(Ger)**
[Ophthalmologist as a career] Grewe R. **Klin Monatsbl Augenheilkd** 1997 May;210(5):aA1–2 **(Ger)**
[Longitudinal study on the determinants of career choice among young women: to continue or change jobs] Suzuki A. **Shinrigaku Kenkyu** 1996 Jun;67(2):118–26 (Eng. Abstr.) **(Jpn)**
[Specific features of conducting medical and psychophysiological selection of occupation] Novichkova NI, et al. **Gig Sanit** 1996 Sep–Oct;(5):15–7 **(Rus)**
[The professional career (editorial)] Iglesias Clemente JM. **Aten Primaria** 1996 Dec;18(10):535–8 **(Spa)**

CAREER COUNSELING see **VOCATIONAL GUIDANCE**

CAREER LADDERS see **CAREER MOBILITY**

CAREER MOBILITY

Promotion, tenure, and teaching [letter] Yonke A, et al. **Acad Med** 1996 Dec;71(12):1277–8
Selection of Air Force officers—profiles, criteria, testing. Jarosch HW. **Acta Neurochir Suppl (Wien)** 1997;69:22–6
Criteria and procedures in the automotive industry. Kohlhofer I. **Acta Neurochir Suppl (Wien)** 1997;69:19–21
Stress and psychiatric disorders in local government officials in Japan, in relation to their employment level. Nadaoka T, et al. **Acta Psychiatr Scand** 1997 Sep;96(3):176–83
Confessions of a pharmacy thief [letter] Murphy JE. **Am J Health Syst Pharm** 1996 Oct 15;53(20):2522–3
Making the transition to home care nursing. Benefield LE. **Am J Nurs** 1996 Oct;96(10):47–9
Career opportunities for medical specialisation in the 21st century. Tan C. **Ann Acad Med Singapore** 1997 Mar; 26(2):249–50
Women and career development: a decade of research. Phillips SD, et al. **Annu Rev Psychol** 1997;48:31–59 (255 ref.)
Ensure your role in the future of perioperative nursing. Rothrock JC. **AORN J** 1997 Jul;66(1):144–5
Academia: the view from below [editorial] Chaudhry B, et al. **BMJ** 1997 Sep 6;315(7108):560–1
More freedom for doctors to move within EU [news] Watson R. **BMJ** 1997 Jul 26;315(7102):206
Doctors leaving the training grades in obstetrics and gynaecology: a study of the years 1985 to 1988 [see comments] Atkins J, et al. **Br J Obstet Gynaecol** 1996 Dec; 103(12):1243–6. Comment in: Br J Obstet Gynaecol 1997 Jun;104(6):759.
Exile and professional identity: on going back to Cuba. Shapiro ER. **Cult Divers Ment Health** 1996;2(1):21–33
Economic mobility of young workers in the 1970s and 1980s. Duncan GJ, et al. **Demography** 1996 Nov;33(4):497–509
Geographic mobility of scientists: sex differences and family constraints. Shauman KA, et al. **Demography** 1996 Nov; 33(4):455–68
Alternative pathways to promotion needed [letter] Baldor RA. **Fam Med** 1997 Mar;29(3):158–9
Support and rewards for scholarly activity in family medicine: a national survey. Oeffinger KC, et al. **Fam Med** 1997 Jul–Aug;29(7):508–12
Academic achievement of successful candidates for tenure and promotion to associate professor. Zyzanski SJ, et al. **Fam Med** 1996 May;28(5):358–63
Promotional timetables: an exploratory investigation of age norms for promotional expectations and their association with job well–being. Lashbrook J. **Gerontologist** 1996 Apr; 36(2):189–98
Overseas mobility of U.K. based nurses. Buchan J, et al. **Int J Nurs Stud** 1997 Feb;34(1):54–62
Clinical ladders: the ups and downs. Buchan J. **Int Nurs Rev** 1997 Mar–Apr;44(2):41–6 (34 ref.)
The pursuit of excellence in nursing care: what does it mean? Coulon L, et al. **J Adv Nurs** 1996 Oct;24(4):817–26
From nurse to teacher: recognizing a status passage. MacNeil M. **J Adv Nurs** 1997 Mar;25(3):634–42
Constructing career pathways in nursing: some issues for research and policy. Robinson S, et al. **J Adv Nurs** 1997 Mar;25(3):602–14
Postgraduate education expectations: a survey of Hong Kong graduate nurses. Simsen BJ, et al. **J Adv Nurs** 1996 Oct; 24(4):827–35
Career changers: dentists who choose to leave private practice. Rice CD, et al. **J Am Coll Dent** 1997 Spring; 64(1):20–6
What do dentists do when they don't do dentistry? [editorial] Meskin LH. **J Am Dent Assoc** 1997 Jun;128(6):682, 684, 686
Role expansion for dietetics professionals [see comments] Dowling R. **J Am Diet Assoc** 1996 Oct;96(10):1001–2. Comment in: J Am Diet Assoc 1997 Feb;97(2):126.
Taking steps toward a more diverse association [letter; comment] Matthews L, et al. **J Am Diet Assoc** 1997 May; 97(5):472. Comment on: J Am Diet Assoc 1996 Dec;96(12):1242–4.
Breaking through the glass ceiling: an industrial perspective. Harlander SK. **J Anim Sci** 1996 Nov;74(11):2849–54 (10 ref.)
Above the glass ceiling? A comparison of matched samples of female and male executives. Lyness KS, et al. **J Appl Psychol** 1997 Jun;82(3):359–75
Support for affirmative action, justice perceptions, and work attitudes: a study of gender and racial–ethnic group differences. Parker CP, et al. **J Appl Psychol** 1997 Jun; 82(3):376–89
Physician training for specialist to generalist career change. Finley GM, et al. **J Ark Med Soc** 1997 Feb;93(9):449–51
Career planning and development for emergency medicine faculty [see comments] Kuhn GJ, et al. **J Emerg Med** 1997 May–Jun;15(3):381–5 (10 ref.). Comment in: J Emerg Med 1997 May–Jun;15(3):375–6.
Career paths for clinical scientists. Farrell GC. **J Gastroenterol Hepatol** 1996 Sep;11(9):891–4
Preparing to change from acute to community–based care. Learning needs of hospital–based nurses. Bryan YE, et al. **J Nurs Adm** 1997 May;27(5):35–44
Creating a registered nurse advancement program that works. Kravutske ME, et al. **J Nurs Adm** 1996 Nov;26(11):17–22
Making planned and unplanned role transitions. Mateo MA, et al. **J Nurs Adm** 1997 Sep;27(9):17–23
Role transition: from clinical nurse specialist to clinical nurse specialist/case manager. Wells N, et al. **J Nurs Adm** 1996 Nov;26(11):23–8
Promotion criteria for clinician–educators in the United States and Canada. A survey of promotion committee chairpersons. Beasley BW, et al. **JAMA** 1997 Sep 3; 278(9):723–8
Retraining physicians for primary care. A study of physician perspectives and program development. Jacoby I, et al. **JAMA** 1997 May 21;277(19):1569–73
A research culture that asks too much [letter; comment] Cook GC. **Lancet** 1997 Apr 12;349(9058):1105. Comment on: Lancet 1997 Feb 22;349(9051):515.
Sex differences in academic advancement. Results of a national study of pediatricians. Kaplan SH, et al. **N Engl J Med** 1996 Oct 24;335(17):1282–9
Diverse opportunities for immunologists. Horton B, et al. **Nature** 1997 Feb 13;385(6617):657–60
Transitions in the caregiving career: effects on sense of mastery. Skaff MM, et al. **Psychol Aging** 1996 Jun; 11(2):247–57
Power and opportunity in public health nursing work environments. Haugh EB, et al. **Public Health Nurs** 1996 Feb;13(1):42–9
Changes in stress symptoms and their relationship to changes at work in 1981–1992 among elderly workers in municipal occupations. Huuhtanen P, et al. **Scand J Work Environ Health** 1997;23 Suppl 1:36–48
Epilepsy in a Dutch working population: are employees diagnosed with epilepsy disadvantaged? Lassouw G, et al. **Seizure** 1997 Apr;6(2):95–8
Social mobility and mental health in a Swedish cohort. Timms DW. **Soc Psychiatry Psychiatr Epidemiol** 1996 Jan; 31(1):38–48
[Career planning and future expectations of veterinarians. Women are too modest about their abilities] van Kalles C. **Tijdschr Diergeneeskd** 1996 Dec 15;121(24):731–3 **(Dut)**
[The difficulties of women in psychiatry (editorial; comment)] Rave–Schwank M. **Psychiatr Prax** 1996 Nov;23(6):261. Comment on: Psychiatr Prax 1996 Nov;23(6):262–5. **(Ger)**
[The career course of women and men psychiatrists (see comments)] Schürmann A, et al. **Psychiatr Prax** 1996 Nov; 23(6):262–5 (Eng. Abstr.). Comment in: Psychiatr Prax 1996 Nov;23(6):261. **(Ger)**
[Career plans of future physicians. Level of ambition and plans for specialization among medical students] Wiers–Jenssen J, et al. **Tidsskr Nor Laegeforen** 1997 Aug 20;117(19):2807–11 (Eng. Abstr.) **(Nor)**

CAREGIVERS

Suicides among physicians, engineers and teachers: the prevalence of reported depression, admissions to hospital and contributory causes of death. Lindeman S, et al. **Acta Psychiatr Scand** 1997 Jul;96(1):68–71
Injuries sustained by caregivers of disabled elderly people. Brown AR, et al. **Age Ageing** 1997 Jan;26(1):21–3
Carer–assisted intermittent urethral catheterisation in the management of persistent retention of urine in elderly women. Lieu PK, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):562–5
We must include the informal caregiver in managed care [editorial] Jones SL. **Arch Psychiatr Nurs** 1996 Aug; 10(4):195–6
Patients, carers and the medical profession: a co–operative approach. Hall MJ. **Aust Fam Physician** 1996 Mar; 25(3):367–8
Difficulties experienced by carers from non–English–speaking backgrounds in using health and other support services. Plunkett A, et al. **Aust N Z J Public Health** 1996 Feb;20(1):27–32
Caring for older people. Article omitted to mention Princess Royal Trust for Carers... [letter] Butler D. **BMJ** 1996 Nov 30;313(7069):1403
Evaluation of a stroke family care worker: results of a randomised controlled trial [see comments] Dennis M, et al. **BMJ** 1997 Apr 12;314(7087):1071–6; discussion 1076–7 . Comment in: BMJ 1997 Apr 12;314(7087):1059–60. Comment in: BMJ 1997 May 17;314(7092):1477. Comment in: BMJ 1997 May 17;314(7092):1477–8. Comment in: BMJ 1997 May 17;314(7092):1478. Comment in: BMJ 1997 Jul 26;315(7102):250. Comment in: BMJ 1997 Jul 26;315(7102):250–1. Comment in: BMJ 1997 Jul 26;315(7102):251. Comment in: BMJ 1997 Jul 26;315(7102):252. Comment in: BMJ 1997 Jul 26;315(7102):252–3. Comment in: BMJ 1997 Jul 26;315(7102):253. Comment in: BMJ 1997 Jul 26;315(7102):254.
Caring for older people. Carers need financial assistance to buy help [letter; comment] Eskin F. **BMJ** 1996 Nov 30; 313(7069):1402–3. Comment on: BMJ 1996 Aug 24;313(7055):482–6.
Caring for older people. Caring for carers should be included in undergraduate curriculum [letter; comment] Robinson L. **BMJ** 1996 Nov 30;313(7069):1402. Comment on: BMJ 1996 Aug 24;313(7055):482–6.
Caring for older people....and Crossroads Association [letter] Wallace P, et al. **BMJ** 1996 Nov 30;313(7069):1403
The identification of children with developmental coordination disorder by class and physical education teachers. Piek JP, et al. **Br J Educ Psychol** 1997 Mar;67 (Pt 1):55–67
The impact of the symptoms of dementia on caregivers. Donaldson C, et al. **Br J Psychiatry** 1997 Jan;170:62–8 (34 ref.)
Impact of caregivers on the symptoms of dementia [letter] Thacker S, et al. **Br J Psychiatry** 1997 May;170:483
Taking care: caregiving to persons with cancer and AIDS. Stetz KM, et al. **Cancer Nurs** 1997 Feb;20(1):12–22
Placement with substance–abusing mothers vs. placement with other relatives: infant outcomes. Tyler R, et al. **Child Abuse Negl** 1997 Apr;21(4):337–49
The foster carer experience in Ireland: findings from a postal survey [published erratum appears in Child Care Health Dev 1996 May;22(3):217] Gilligan R. **Child Care Health Dev** 1996 Mar;22(2):85–98
Family and caregiver involvement in pain management. Juarez G, et al. **Clin Geriatr Med** 1996 Aug;12(3):531–47 (48 ref.)
Predictors of depressive symptomatology among lower social class caregivers of persons with chronic mental illness. Song LY, et al. **Community Ment Health J** 1997 Aug; 33(4):269–86
Assistance arrangements and use of services among persons with multiple sclerosis and their caregivers. Aronson KJ, et al. **Disabil Rehabil** 1996 Jul;18(7):354–61
Intended response of caretakers of pre–school children to acute respiratory infection in a rural district in Ghana. Amofah GK, et al. **East Afr Med J** 1995 Oct;72(10):619–22
Measuring quality of life for young children with asthma and their families. Osman L, et al. **Eur Respir J Suppl** 1996 Apr;21:35s–41s (39 ref.)
Patients, caregivers, and managing care. Baxter E. **Geriatrics** 1997 Sep;52 Suppl 2:S48–9
Modifying repetitive verbalizations of community–dwelling patients with AD. Bourgeois MS, et al. **Gerontologist** 1997 Feb;37(1):30–9
Findings from a statewide program of respite care: a comparison of service users, stoppers, and nonusers. Cox C. **Gerontologist** 1997 Aug;37(4):511–7
A profile of grandparents raising grandchildren in the United States. Fuller–Thomson E, et al. **Gerontologist** 1997 Jun; 37(3):406–11
New burdens or more of the same? Comparing grandparent, spouse, and adult–child caregivers. Strawbridge WJ, et al. **Gerontologist** 1997 Aug;37(4):505–10
Burden and well–being: the same coin or related currency. Stuckey JC, et al. **Gerontologist** 1996 Oct;36(5):686–93
Content domain for caregiver planning identified by adult offspring caregivers. England M. **Image J Nurs Sch** 1996 Spring;28(1):17–22
Home care for the urban chronically ill elderly in the People's Republic of China. Davis AJ, et al. **Int J Aging Hum Dev** 1995;41(4):345–58
Elder abuse in people with dementia in Northern Ireland: Prevalence and predictors in cases referred to a psychiatry of old age service. Compton SA, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):632–5
Working people who also care for the elderly. Rands G. **Int J Geriatr Psychiatry** 1997 Jan;12(1):39–44
Research project to aid caregivers of people with Alzheimer's disease [news] **J Adv Nurs** 1996 Jul;24(1):3
Informal family caregiving to older people with dementia: research priorities for community psychiatric nursing. Adams T. **J Adv Nurs** 1996 Oct;24(4):703–10 (97 ref.)

Influential factors of caregiver behavior at mealtime: a study of 24 child-care programs. Nahikian-Nelms M. **J Am Diet Assoc** 1997 May;97(5):505-9

Being there: chronic disease management in and by families [editorial; comment] Kane RA. **J Am Geriatr Soc** 1996 Nov; 44(11):1405-6. Comment on: J Am Geriatr Soc 1996 Nov;44(11):1314-21.

Walking the tightrope: the challenge of elder care. Meuleman JR. **J Am Geriatr Soc** 1996 Dec;44(12):1466-8

Circadian rest-activity rhythms in demented and nondemented older community residents and their caregivers. Pollak CP, et al. **J Am Geriatr Soc** 1997 Apr; 45(4):446-52

The care of older persons with diabetes mellitus: families and primary care physicians [see comments] Silliman RA, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1314-21. Comment in: J Am Geriatr Soc 1996 Nov;44(11):1405-6.

The impact of managed care on female caregivers in the hospital and home. Gordon S. **J Am Med Womens Assoc** 1997 Spring;52(2):75-7, 80

Managing dementia-related behavior in the community. Mort JR, et al. **J Am Pharm Assoc (Wash)** 1996 Apr; NS36(4):249-56

Value of caregiver ratings in evaluating the quality of life of patients with cancer. Sneeuw KC, et al. **J Clin Oncol** 1997 Mar;15(3):1206-17

Needs of caregivers of clients with multiple sclerosis. Sato A, et al. **J Community Health Nurs** 1996;13(1):31-42

The influence of caregiving and employment on the voluntary activities of midlife and older women. Farkas JI, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jul; 52(4):S180-9

Selection of children to provide care: the effect of earlier parental transfers. Henretta JC, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:110-9

Concordance between direct observation and staff rating of behavior in nursing home residents with Alzheimer's disease. McCann JJ, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar;52(2):P63-72

The interplay of work and caregiving: relationships between role satisfaction, role involvement, and caregivers' well-being. Martire LM, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Sep;52(5):S279-89

Patterns of in-home care among elderly black and white Americans. Norgard TM, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:93-101

Women's caregiving and paid work: causal relationships in late midlife. Pavalko EK, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jul;52(4):S170-9

The division of family labor: care for elderly parents. Wolf DA, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May; 52 Spec No:102-9

Perceptions of symptom distress in lung cancer patients: I. Congruence between patients and primary family caregivers. Lobchuk MM, et al. **J Pain Symptom Manage** 1997 Sep;14(3):136-46

Perceptions of symptom distress in lung cancer patients: II. Behavioral assessment by primary family caregivers. Lobchuk MM, et al. **J Pain Symptom Manage** 1997 Sep; 14(3):147-56

Bereavement follow-up: what do palliative support teams actually do? Bromberg MH, et al. **J Palliat Care** 1996 Spring;12(1):12-7

Family transition through the termination of private duty home care nursing. Agazio JG. **J Pediatr Nurs** 1997 Apr; 12(2):74-84

Stability and change in psychosocial resources during caregiving and bereavement in partners of men with AIDS. Park CL, et al. **J Pers** 1997 Jun;65(2):421-47

Communication and choice in dying from heart disease. McCarthy M, et al. **J R Soc Med** 1997 Mar;90(3):128-31

What health educators should know about pediatric heart transplant recipients. Duitsman D. **J Sch Health** 1996 Oct; 66(8):305-7

Validation study of a verbal autopsy method for causes of childhood mortality in Namibia. Mobley CC, et al. **J Trop Pediatr** 1996 Dec;42(6):365-9

Preventing disability. Beyond the black box [editorial; comment] [see comments] Beck JC, et al. **JAMA** 1996 Dec 4;276(21):1756-7. Comment on: JAMA 1996 Dec 4;276(21):1725-31. Comment in: JAMA 1997 Apr 2;277(13):1035.

Underrecognition of dementia by caregivers cuts across cultures [letter; comment] Greiner LH, et al. **JAMA** 1997 Jun 11;277(22):1757; discussion 1758-9. Comment on: JAMA 1997 Mar 12;277(10):800-5.

A family intervention to delay nursing home placement of patients with Alzheimer disease. A randomized controlled trial [see comments] Mittelman MS, et al. **JAMA** 1996 Dec 4;276(21):1725-31. Comment in: JAMA 1996 Dec 4;276(21):1756-7. Comment in: JAMA 1997 Apr 2;277(13):1035. Comment in: ACP J Club 1997 May-Jun;126(3):67.

Caregiving experiences of family caregivers of elderly persons with dementia in northern Taiwan. Shyu YI, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jan; 12(1):50-61

Caring for persons with AIDS in greater Minnesota. Chial H, et al. **Minn Med** 1997 Feb;80(2):43-5

Level of mental impairment in the Jamaican elderly and the issues of screening levels, caregiving, support systems, carepersons, and female burden. Eldemire D. **Mol Chem Neuropathol** 1996 May-Aug;28(1-3):115-20

Quality of life among persons with multiple sclerosis and their caregivers. Aronson KJ. **Neurology** 1997 Jan; 48(1):74-80

The family caregiver's role in Alzheimer's disease. Haley WE. **Neurology** 1997 May;48(5 Suppl 6):S25-9 (63 ref.)

Measurement of the early rearing environment: caregiver-child interaction. Beckwith L. **NIDA Res Monogr** 1996;166:205-24

The needs of patients with cancer and their caregivers in rural areas. Silveira JM, et al. **Oncol Nurs Forum** 1997 Jan-Feb;24(1):71-6

Needs of family caregivers of patients receiving home hospice care for cancer. Steele RG, et al. **Oncol Nurs Forum** 1996 Jun;23(5):823-8

Parents' management of children's pain following 'minor' surgery. Finley GA, et al. **Pain** 1996 Jan;64(1):83-7

Differences in patients' and family caregivers' perceptions of the pain experience influence patient and caregiver outcomes. Miaskowski C, et al. **Pain** 1997 Aug; 72(1-2):217-26

Support needs in the last year of life: patient and carer dilemmas. Grande GE, et al. **Palliat Med** 1997 May; 11(3):202-8

Caregivers and HIV infection. Services and issues. Matheny SC, et al. **Prim Care** 1997 Sep;24(3):677-90 (32 ref.)

Caregiving outcomes for older mothers of adults with mental retardation: a test of the two-factor model of psychological well-being. Smith GC. **Psychol Aging** 1996 Jun; 11(2):353-61

Psychosocial modulation of cytokine-induced natural killer cell activity in older adults. Esterling BA, et al. **Psychosom Med** 1996 May-Jun;58(3):264-72

Insulin and glucose: relationships with hassles, anger, and hostility in nondiabetic older adults. Vitaliano PP, et al. **Psychosom Med** 1996 Sep-Oct;58(5):489-99

Living with the mentally ill: effects on the health and functioning of other household members. Gallagher SK, et al. **Soc Sci Med** 1996 Jun;42(12):1691-701

Caregiving: a common or uncommon experience? Howe AL, et al. **Soc Sci Med** 1997 Oct;45(7):1017-29

Surrogate assessment of coronary artery disease patients' functional capacity. Von Dras DD, et al. **Soc Sci Med** 1997 May;44(10):1491-502

Puerto Rican sons as primary caregivers of elderly parents. Delgado M, et al. **Soc Work** 1997 Mar;42(2):125-34

Caregiving and social support in two illness groups. Monahan DJ, et al. **Soc Work** 1997 May;42(3):278-87

Outcomes of hospitalization: factors influencing the discharges of African American and white dementia patients. Cox C. **Soc Work Health Care** 1996;23(1):23-38

Assessing quality of life after stroke. The value and limitations of proxy ratings. Sneeuw KC, et al. **Stroke** 1997 Aug; 28(8):1541-9

Exhaustion syndrome in palliative care [see comments] Astudillo W, et al. **Support Care Cancer** 1996 Nov; 4(6):408-15. Comment in: Support Care Cancer 1996 Nov;4(6):399-400.

Predictors of postbereavement depressive symptomatology among family caregivers of cancer patients. Kurtz ME, et al. **Support Care Cancer** 1997 Jan;5(1):53-60

A word from WIPRO. Alzheimer's disease caregiver cooperative project. Miesbauer K, et al. **Wis Med J** 1996 Oct;95(10):721-3

[The effect of disability of the aged patient on the level of caregiving burden by the family] Topinková E, et al. **Cas Lek Cesk** 1997 Feb 12;136(4):111-4 (Eng. Abstr.) **(Cze)**

[Women of the middle generation and informal care for the elderly] Dautzenberg MG, et al. **Tijdschr Gerontol Geriatr** 1996 Aug;27(4):141-9 (Eng. Abstr.) **(Dut)**

[Palliative care--objectives and accomplishments of the Association for the Development of Palliative Care] Kermarec J. **Bull Acad Natl Med** 1996 Nov;180(8):1951-64; discussion 1964-5 (13 ref.) (Eng. Abstr.) **(Fre)**

[Family and social aspects in dementia] Bermejo F, et al. **Med Clin (Barc)** 1997 Jun 21;109(4):140-6 (173 ref.) **(Spa)**

CLASSIFICATION

Typologies of caregiving families: family congruence and individual well-being. Pruchno RA, et al. **Gerontologist** 1997 Apr;37(2):157-67

ECONOMICS

Caregiving and women's Social Security benefits: a response to Sandell and Iams. O'Grady-LeShane R, et al. **Gerontologist** 1996 Dec;36(6):812-3; discussion 814-5

Economic value of caregiver effort in maintaining long-term ventilator-assisted individuals at home. Sevick MA, et al. **Heart Lung** 1997 Mar-Apr;26(2):148-57

EDUCATION

Child and adolescent suicide attempts: an opportunity for emergency departments to provide injury prevention education. McManus BL, et al. **Am J Emerg Med** 1997 Jul;15(4):357-60

Effectiveness of two models of brief family education: retention of gains by family members of adults with serious mental illness. Solomon P, et al. **Am J Orthopsychiatry** 1997 Apr;67(2):177-86

The role of general practitioners and pharmacists in information exchange with family carers. Murphy B, et al. **Aust N Z J Public Health** 1997 Jun;21(3):317-22

Ability of caregivers to recognise signs of pneumonia in coughing children aged below five years. Kambarami RA, et al. **Cent Afr J Med** 1996 Oct;42(10):291-4

A psychoeducational group intervention for family members of persons with HIV/AIDS. Pomeroy EC, et al. **Fam Process** 1996 Sep;35(3):299-312

Non pharmacological treatment in Alzheimer's disease. Bianchetti A, et al. **Funct Neurol** 1997 May-Aug; 12(3-4):215-7

"What will happen to my child when I'm gone?" A support and education group for aging parents as caregivers. Mengel MH, et al. **Gerontologist** 1996 Dec;36(6):816-20

Caregiver training for people with Alzheimer's based on a stress threshold model. Gerdner LA, et al. **Image J Nurs Sch** 1996 Fall;28(3):241-6

Respirators and fit testing [editorial; comment] Fraser V. **Infect Control Hosp Epidemiol** 1996 Oct;17(10):633-5. Comment on: Infect Control Hosp Epidemiol 1996 Oct;17(10):636-40.

Psycho-education and family treatment related to the phase of a psychotic disorder. Goldstein MJ. **Int Clin Psychopharmacol** 1996 May;11 Suppl 2:77-83 (21 ref.)

The Prince Henry Hospital dementia caregivers' training programme. Brodaty H, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):183-92

A study of library based information needs of the parents of persons with mental retardation. Reddy SH, et al. **Int J Rehabil Res** 1997 Jun;20(2):209-15

Children's return to school after treatment for cancer: study days for teachers. Larcombe I, et al. **J Cancer Educ** 1996 Summer;11(2):102-5

Evaluation of an HIV/AIDS education program for family-based foster care providers. Scotti JR, et al. **Ment Retard** 1996 Apr;34(2):75-82

Educational interventions for family caregivers during marrow transplantation. McDonald JC, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1432-9 (37 ref.)

Patients and caregivers benefit from transplantation classes. Stoll T. **Oncol Nurs Forum** 1997 Jun;24(5):803

Educational needs of families of mentally ill adults. Ascher-Svanum H, et al. **Psychiatr Serv** 1997 Aug; 48(8):1072-4

Psychoeducational workshops for elderly patients with recurrent major depression and their families. Sherrill JT, et al. **Psychiatr Serv** 1997 Jan;48(1):76-81

Moving from psychoeducation to family education for families of adults with serious mental illness. Solomon P. **Psychiatr Serv** 1996 Dec;47(12):1364-70 (47 ref.)

How to involve hard to reach groups: a consumer-led project with lay carers of people with advanced HIV infection. Yates BD, et al. **Public Health** 1997 Sep;111(5):297-303

Checking the carotid pulse check: diagnostic accuracy of first responders in patients with and without a pulse. Eberle B, et al. **Resuscitation** 1996 Dec;33(2):107-16

[Work with relatives from the viewpoint of the relatives] Walter K. **Gesundheitswesen** 1996 Jul;58(1 Suppl):98-9 (Eng. Abstr.) **(Ger)**

[Psychoeducational family treatment in schizophrenia--a popular concept? A critical evaluation of different treatment models] Klimitz H. **Psychiatr Prax** 1997 May; 24(3):110-6 (71 ref.) (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

A new questionnaire assessing coping strategies in relatives of patients with schizophrenia: development and factor analysis. Magliano L, et al. **Acta Psychiatr Scand** 1996 Oct; 94(4):224-8

Mental illness, physical abuse and burden of care on relatives: a study of acute psychiatric admission patients. Vaddadi KS, et al. **Acta Psychiatr Scand** 1997 Apr;95(4):313-7

The development of a care-giving burden scale. Gerritsen JC, et al. **Age Ageing** 1994 Nov;23(6):483-91

Carer informants for dementia sufferers: carer awareness of cognitive impairment in an elderly community-resident sample. McLoughlin DM, et al. **Age Ageing** 1996 Sep; 25(5):367-71

Reported activities of daily living: agreement between elderly subjects with and without dementia and their caregivers. Ostbye T, et al. **Age Ageing** 1997 Mar;26(2):99-106

Stress and burnout in HIV/AIDS carers. Miller D. **AIDS** 1996;10 Suppl A:S213-9 (59 ref.)

Who will care for the caregivers? [letter; comment] Rivera DA. **Altern Ther Health Med** 1997 Jul;3(4):22. Comment on: Altern Ther Health Med 1997 Mar;3(2):8-15.

Performance of the dementia severity rating scale: a caregiver questionnaire for rating severity in Alzheimer disease. Clark CM, et al. **Alzheimer Dis Assoc Disord** 1996 Spring; 10(1):31-9

The experience of caregiving among mothers of adults suffering from psychotic disorders: factors associated with their psychological distress. St-Onge M, et al. **Am J Community Psychol** 1997 Feb;25(1):73-94

Informal caregiving to persons with AIDS in the United States: caregiver burden among central cities residents eighteen to forty-nine years old. Turner HA, et al.

Am J Community Psychol 1997 Feb;25(1):35-59
Stress appraisal and social support of Chinese mothers of adult children with mental retardation. Chen TY, et al. **Am J Ment Retard** 1997 Mar;101(5):473-82
Integrating caregiver report with systematic choice assessment to enhance reinforcer identification. Fisher WW, et al. **Am J Ment Retard** 1996 Jul;101(1):15-25
The litany of the last meal. Plaisance L. **Am J Nurs** 1997 Mar;97(3):60-1
Six tips for caring for aging parents. Stocker S. **Am J Nurs** 1996 Sep;96(9):32-3
Families of adults with severe mental illness--the next generation of research: introduction. Cook JA, et al. **Am J Orthopsychiatry** 1997 Apr;67(2):172-6
The next generation of research: views of a sibling-psychiatrist-researcher. Dixon L. **Am J Orthopsychiatry** 1997 Apr;67(2):242-8
A consumer perspective on the family agenda. Fox L. **Am J Orthopsychiatry** 1997 Apr;67(2):249-53
Factors associated with subjective burden in siblings of adults with severe mental illness. Greenberg JS, et al. **Am J Orthopsychiatry** 1997 Apr;67(2):231-41
Families of adults with severe mental illness: new directions in research. Hatfield AB. **Am J Orthopsychiatry** 1997 Apr; 67(2):254-60
Benefits of support groups for families of adults with severe mental illness. Heller T, et al. **Am J Orthopsychiatry** 1997 Apr;67(2):187-98
The consumer recovery vision: will it alleviate family burden? Lefley HP. **Am J Orthopsychiatry** 1997 Apr; 67(2):210-9
Parents of adults with mental retardation living in-home and out-of-home: caregiving burdens and gratifications. McDermott S, et al. **Am J Orthopsychiatry** 1997 Apr; 67(2):323-9
Positive parent/adult child relationships: impact of severe mental illness and caregiving burden. Pickett SA, et al. **Am J Orthopsychiatry** 1997 Apr;67(2):220-30
Perceived burden among caregivers of adults with serious mental illness: comparison of black, Hispanic, and white families. Stueve A, et al. **Am J Orthopsychiatry** 1997 Apr; 67(2):199-209
Childhood adversity, attachment and personality styles as predictors of anxiety among elderly caregivers. Prigerson HG, et al. **Anxiety** 1996;2(5):234-41
Sense of relatedness and interpersonal network of adult offspring caregivers: linkages with crisis, emotional arousal, and perceived health. England M. **Arch Psychiatr Nurs** 1996 Apr;10(2):85-95
The association between objective and subjective caregiver burden. Jones SL. **Arch Psychiatr Nurs** 1996 Apr; 10(2):77-84
Families of psychiatric patients: a critical review and future research directions. Rose LE. **Arch Psychiatr Nurs** 1996 Apr;10(2):67-76 (57 ref.)
The experience of caring for an adult child with schizophrenia. Tuck I, et al. **Arch Psychiatr Nurs** 1997 Jun; 11(3):118-25
A profile of Australian family caregivers: diversity of roles and circumstances. Schofield HL, et al. **Aust N Z J Public Health** 1997 Feb;21(1):59-66
The effects of child behavior problems on the maintenance of intervention fidelity. McConnachie G, et al. **Behav Modif** 1997 Apr;21(2):123-58
The efficacy of a response cost-based treatment package for managing aggressive behavior in preschoolers. Reynolds LK, et al. **Behav Modif** 1997 Apr;21(2):216-30
The experience of caring for former long-stay psychiatric patients. McGilloway S, et al. **Br J Clin Psychol** 1997 Feb; 36 (Pt 1):149-51
Teachers' views on bullying: definitions, attitudes and ability to cope. Boulton MJ. **Br J Educ Psychol** 1997 Jun;67 (Pt 2):223-33
Student teacher anxieties related to class management, pedagogy, evaluation, and staff relations. Morton LL, et al. **Br J Educ Psychol** 1997 Mar;67 (Pt 1):69-89
Relations between perceptions of the teaching environment and approaches to teaching. Prosser M, et al. **Br J Educ Psychol** 1997 Mar;67 (Pt 1):25-35
The effects of caring for a spouse with Parkinson's disease on social, psychological and physical well-being. O'Reilly F, et al. **Br J Gen Pract** 1996 Sep;46(410):507-12
Dementia: an intimate death. Garner J. **Br J Med Psychol** 1997 Jun;70 (Pt 2):177-84 (37 ref.)
Predictors of psychological health in caregivers of patients with closed head injury. Sander AM, et al. **Brain Inj** 1997 Apr;11(4):235-49
Treating the patient to benefit others. Klepper H, et al. **Camb Q Healthc Ethics** 1997 Summer;6(3):306-13
Physicians' role in care of loved ones [letter; comment] Simone C, et al. **Can Med Assoc J** 1997 May 15; 156(10):1377. Comment on: Can Med Assoc J 1997 Jan 1;156(1):53-5.
Neighbourhood support to families with a disabled child: observations on a coping strategy of caregivers in a Jamaican community-based rehabilitation programme. Bischoff R, et al. **Child Care Health Dev** 1996 Nov; 22(6):397-410
The experience of family foster care in Malawi: a preliminary investigation. Bandawe CR, et al. **Child Welfare** 1997 Jul-Aug;76(4):535-47
Ethnicity, social status, and families' experiences of caring for a mentally ill family member. Guarnaccia PJ, et al. **Community Ment Health J** 1996 Jun;32(3):243-60
Suicide: how to survive as a survivor? Grad OT. **Crisis** 1996; 17(3):136-42 (38 ref.)
The patient and family adjustment to chronic disease in the home. Medalie JH. **Disabil Rehabil** 1997 Apr;19(4):163-70 (9 ref.)
Traditional healers and global surveillance strategies for emerging diseases [editorial] Groce NE, et al. **Emerg Infect Dis** 1996 Oct-Dec;2(4):351-3
Intrusiveness and closeness-caregiving: rethinking the concept of family "Enmeshment". Green RJ, et al. **Fam Process** 1996 Jun;35(2):115-36
A psychoeducational group intervention for family members of persons with HIV/AIDS. Pomeroy EC, et al. **Fam Process** 1996 Sep;35(3):299-312
The influence of ethnicity and culture on the caregiver stress and coping process: a sociocultural review and analysis. Aranda MP, et al. **Gerontologist** 1997 Jun;37(3):342-54 (92 ref.)
Family caregiving: the positive impact on adolescent relationships. Beach DL. **Gerontologist** 1997 Apr; 37(2):233-8
Between stressors and outcomes: can we simplify caregiving process variables? Braithwaite V. **Gerontologist** 1996 Feb; 36(1):42-53
Age norms, the timing of family role transitions, and intergenerational caregiving among aging African American women. Burton LM. **Gerontologist** 1996 Apr; 36(2):199-208
The InterpreCare System: overcoming language barriers in long-term care. Camp CJ, et al. **Gerontologist** 1996 Dec; 36(6):821-3
Racial, ethnic, and cultural differences in dementia caregiving: review and analysis. Connell CM, et al. **Gerontologist** 1997 Jun;37(3):355-64
The contribution of attachment to burden in adult children of institutionalized parents with dementia. Crispi EL, et al. **Gerontologist** 1997 Feb;37(1):52-60
Anticipatory dementia: a link between memory appraisals and concerns about developing Alzheimer's disease. Cutler SJ, et al. **Gerontologist** 1996 Oct;36(5):657-64
Theoretical perspectives concerning positive aspects of caring for elderly persons with dementia: stress/adaptation and existentialism. Farran CJ. **Gerontologist** 1997 Apr; 37(2):250-6 (51 ref.)
The association of elder abuse and substance abuse in the Illinois Elder Abuse System. Hwalek MA, et al. **Gerontologist** 1996 Oct;36(5):694-700
Caregiving for parents and parents-in-law: is gender important? Ingersoll-Dayton B, et al. **Gerontologist** 1996 Aug;36(4):483-91
Differential predictors of strain and gain among husbands caring for wives with dementia. Kramer BJ. **Gerontologist** 1997 Apr;37(2):239-49
Gain in the caregiving experience: where are we? What next? Kramer BJ. **Gerontologist** 1997 Apr;37(2):218-32 (86 ref.)
Validity studies of the filial anxiety scale. Murray PD, et al. **Gerontologist** 1996 Feb;36(1):110-2
Religiosity and perceived rewards of black and white caregivers. Picot SJ, et al. **Gerontologist** 1997 Feb; 37(1):89-101
Typologies of caregiving families: family congruence and individual well-being. Pruchno RA, et al. **Gerontologist** 1997 Apr;37(2):157-67
Awareness of deficit in Alzheimer's disease: relation to caregiver burden. Seltzer B, et al. **Gerontologist** 1997 Feb; 37(1):20-4
The transitions of caregiving: subjective and objective definitions. Seltzer MM, et al. **Gerontologist** 1996 Oct; 36(5):614-26
A cross-cultural validation of coping strategies and their associations with caregiving distress. Shaw WS, et al. **Gerontologist** 1997 Aug;37(4):490-504
Measuring child work and residence adjustments to parents' long-term care needs. Stern S. **Gerontologist** 1996 Feb; 36(1):76-87
SES and ethnic differences in perceived caregiver availability among young-old Mexican Americans and non-Hispanic whites. Talamantes MA, et al. **Gerontologist** 1996 Feb; 36(1):88-99
The burden of aging: a theoretical framework for understanding the shifting balance of caregiving and care receiving as cohorts age. Uhlenberg P. **Gerontologist** 1996 Dec;36(6):761-7
Women living with HIV/AIDS: the dual challenge of being a patient and caregiver. Hackl KL, et al. **Health Soc Work** 1997 Feb;22(1):53-62
Depression or grief? The experience of caregivers of people with dementia. Walker RJ, et al. **Health Soc Work** 1996 Nov;21(4):247-54
Family care giving at home as a solitary journey. Boland DL, et al. **Image J Nurs Sch** 1996 Spring;28(1):55-8
Balancing engagement and detachment in caregiving. Carmack BJ. **Image J Nurs Sch** 1997;29(2):139-44
Mothers' help seeking as care initiated in a social context. Pridham KF. **Image J Nurs Sch** 1997 Spring;29(1):65-70 (39 ref.)
Preferences for schizophrenia-related health states: a comparison of patients, caregivers and psychiatrists. Revicki DA, et al. **Int Clin Psychopharmacol** 1996 Jun; 11(2):101-8
Attitude to aging among different groups in Nigeria. Baiyewu O, et al. **Int J Aging Hum Dev** 1997;44(4):283-92
Interventions for caregivers of patients with Alzheimer's disease: a review and analysis of content, process, and outcomes. Bourgeois MS, et al. **Int J Aging Hum Dev** 1996; 43(1):35-92 (117 ref.)
Exploring the Caregiver Burden Inventory (CBI): further evidence for a multidimensional view of burden. Caserta MS, et al. **Int J Aging Hum Dev** 1996;43(1):21-34
Strain among caregivers: comparing the experiences of African American and Hispanic caregivers of Alzheimer's relatives. Cox C, et al. **Int J Aging Hum Dev** 1996; 43(2):93-105
Internal resourcefulness, task demands, coping, and dysphoric affect among caregivers of the frail elderly. Fingerman KL, et al. **Int J Aging Hum Dev** 1996;42(3):229-48
Understanding the influence of gender role identity on the assumption of family caregiving roles by men. Hirsch C. **Int J Aging Hum Dev** 1996;42(2):103-21
Risk factors associated with negative interactions between family caregivers and elderly care-receivers. Johnson JR. **Int J Aging Hum Dev** 1996;43(1):7-20
Equity/inequity and patterns of guardianship of older persons. Keith PM. **Int J Aging Hum Dev** 1996;43(2):155-68
Cultural differences in caregiving motivations for demented parents: Korean caregivers versus American caregivers. Lee YR, et al. **Int J Aging Hum Dev** 1997;44(2):115-27
Preparation for caregiving: a study of multigeneration families. Sörensen S, et al. **Int J Aging Hum Dev** 1996; 42(1):43-63
Determinants of perceived family support and conflict: life-course variations among the physically disabled. Turner HA. **Int J Aging Hum Dev** 1996;42(1):21-41
Evaluation of infantilizing speech in a rehabilitation setting: relation to age. Whitmer RA, et al. **Int J Aging Hum Dev** 1997;44(2):129-36
Sexual relationships in married dementia sufferers. Ballard CG, et al. **Int J Geriatr Psychiatry** 1997 Apr;12(4):447-51
Psychological distress among informal supporters of frail older people at home and in institutions. The Resource Implications Study Group of the MRC Cognitive Function and Ageing Study. Buck D, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):737-44
Behaviour disturbance and other predictors of carer burden in Alzheimer's disease. Coen RF, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):331-6
Carers' knowledge of dementia and their expressed concerns. Graham C, et al. **Int J Geriatr Psychiatry** 1997 Apr; 12(4):470-3
Stress of caregivers of dementia patients in the Singapore Chinese family. Heok KE, et al. **Int J Geriatr Psychiatry** 1997 Apr;12(4):466-9
Home-based assessment for family carers: a preventative strategy to identify and meet service needs. Nankervis J, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):193-201
Predictors of change and continuity in home care for dementia patients. Vernooij-Dassen M, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):671-7
What depressive symptoms are reported in Alzheimer's patients? Weiner MF, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):648-52
Patients' and carers' satisfaction with hospital-in-the-home care. Montalto M. **Int J Qual Health Care** 1996 Jun; 8(3):243-51
Quality of life of the spouses of stroke patients: a preliminary study. Béthoux F, et al. **Int J Rehabil Res** 1996 Dec; 19(4):291-9
A study of how families care for mentally ill relatives in Japan. Yamashita M. **Int Nurs Rev** 1996 Jul-Aug; 43(4):121-5
Caregivers and behavioral disturbances: effects and interventions. Brodaty H. **Int Psychogeriatr** 1996;8 Suppl 3:455-8
Interventions for family caregivers of patients with Alzheimer's disease in community-based settings: items for consideration. Buckwalter K. **Int Psychogeriatr** 1996;8 Suppl 1:121-2
New ways to approach manifestations of Alzheimer's disease and to reduce caregiver burden. Cohen-Mansfield J. **Int Psychogeriatr** 1996;8 Suppl 1:91-4
Agitation among elderly persons at adult day-care centers: the experiences of relatives and staff members. Cohen-Mansfield J, et al. **Int Psychogeriatr** 1995 Fall; 7(3):447-58
Change mechanisms of support groups for caregivers of dementia patients. Cuijpers P, et al. **Int Psychogeriatr** 1996 Winter;8(4):575-87 (45 ref.)
Monolingual and bilingual communication between patients with dementia diseases and their caregivers. Ekman SL. **Int Psychogeriatr** 1996;8 Suppl 1:127-32
Effects of respite care on patients with dementia and their caregivers. Flint AJ. **Int Psychogeriatr** 1995 Winter; 7(4):505-17 (31 ref.)
How do we prevent families from "closing the door" when caring for patients with Alzheimer's disease? Grafström M. **Int Psychogeriatr** 1996;8 Suppl 1:137-9
Perspectives of a family caregiver. Kenowsky S. **Int Psychogeriatr** 1996;8 Suppl 3:449-53
Caretaker Obstreperous Behavior Rating Scale. Swearer JM, et al. **Int Psychogeriatr** 1996;8 Suppl 3:321-4
Validation of the NOSGER (Nurses' Observation Scale for Geriatric Patients): reliability and validity of a caregiver

rating instrument. Wahle M, et al. **Int Psychogeriatr** 1996 Winter;8(4):525–47
Review: pathways to morbidity in carers of dementia sufferers. Wijeratne C. **Int Psychogeriatr** 1997 Mar; 9(1):69–79 (74 ref.)
Interventions for family management of patients with Alzheimer's disease. Wykle ML. **Int Psychogeriatr** 1996;8 Suppl 1:109–11
Behavioral disturbances of dementia and caregiver issues. Zarit SH. **Int Psychogeriatr** 1996;8 Suppl 3:263–8; discussion 269–72
A revised teacher rating scale for reactive and proactive aggression. Brown K, et al. **J Abnorm Child Psychol** 1996 Aug;24(4):473–80
Expressed emotion and the course of late-life depression. Hinrichsen GA, et al. **J Abnorm Psychol** 1997 May; 106(2):336–40
Caring for a demented elderly person--burden and burnout among caregiving relatives. Almberg B, et al. **J Adv Nurs** 1997 Jan;25(1):109–16
Strategies used by chronically ill older women and their caregiving daughters in managing posthospital care. Bull MJ, et al. **J Adv Nurs** 1997 Mar;25(3):541–7
Burden and health outcomes of family caregivers of hospitalized bone marrow transplant patients. Foxall MJ, et al. **J Adv Nurs** 1996 Nov;24(5):915–23
Entry to care: positive choice or fait accompli? developing a more proactive nursing response to the needs of older people and their carers. Nolan M, et al. **J Adv Nurs** 1996 Aug;24(2):265–74
Child survivors of suicide: psychosocial characteristics. Pfeffer CR, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jan;36(1):65–74
Support groups for professional caregivers: a role for the contemporary psychoanalyst. Merlino JP. **J Am Acad Psychoanal** 1997 Spring;25(1):111–22
Quality of life in patients with Alzheimer's disease as reported by patient proxies [see comments] Albert SM, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1342–7. Comment in: J Am Geriatr Soc 1996 Nov;44(11):1400–2.
Advance planning for dementia caregivers. McCurry SM, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1102–3
HIV disease symptom management in the context of committed relationships. Powell-Cope GM. **J Assoc Nurses AIDS Care** 1996 May-Jun;7(3):19–28
Needs assessment of caregivers of people with HIV/AIDS. Theis SL, et al. **J Assoc Nurses AIDS Care** 1997 May-Jun; 8(3):76–84
Postburn psychologic adaptation of family members of patients with burns. Watkins PN, et al. **J Burn Care Rehabil** 1996 Jan-Feb;17(1):78–92
Psychosocial consequences of caring for a spouse with multiple sclerosis. Knight RG, et al. **J Clin Exp Neuropsychol** 1997 Feb;19(1):7–19
Effect of patient and family insight on compliance of schizophrenic patients. Smith CM, et al. **J Clin Pharmacol** 1997 Feb;37(2):147–54
Does home health care affect strain and depressive symptomatology for caregivers of impaired older adults? Schwarz KA, et al. **J Community Health Nurs** 1997; 14(1):39–48
Caregiver burden in partners of Vietnam War veterans with posttraumatic stress disorder. Beckham JC, et al. **J Consult Clin Psychol** 1996 Oct;64(5):1068–72
Appraisal, coping, and social support as mediators of well-being in black and white family caregivers of patients with Alzheimer's disease. Haley WE, et al. **J Consult Clin Psychol** 1996 Feb;64(1):121–9
Subject-caregiver response comparability on global health and functional status measures for African American, Puerto Rican, and Caucasian elders and their primary caregivers. Lawrence RH, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar;52(2):S103–11
Social support and depressive symptoms: differential patterns in wife and daughter caregivers. Li LW, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jul;52(4):S200–11
The interplay of work and caregiving: relationships between role satisfaction, role involvement, and caregivers' well-being. Martire LM, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Sep;52(5):S279–89
Sources of support and interpersonal stress in the networks of married caregiving daughters: findings from a 2-year longitudinal study. Suitor JJ, et al. **J Gerontol B Psychol Sci Soc Sci** 1996 Nov;51(6):S297–306
Ethnic differences in caregiving duties and burdens among parents and siblings of persons with severe mental illnesses. Horwitz AV, et al. **J Health Soc Behav** 1995 Jun; 36(2):138–50
The continuation of family caregiving in Japan. Yamamoto N, et al. **J Health Soc Behav** 1997 Jun;38(2):164–76
Improving care givers' satisfaction with information received during hospitalization. Bailey DA, et al. **J Nurs Adm** 1997 Jan;27(1):21–7
Differences in mood states, health status, and caregiver strain between family caregivers of oncology outpatients with and without cancer-related pain. Miaskowski C, et al. **J Pain Symptom Manage** 1997 Mar;13(3):138–47
Effects of social support, stress, and level of illness on caregiving of children with AIDS. Hughes CB, et al. **J Pediatr Nurs** 1996 Dec;11(6):347–58
Home community cancer care: parents' perspectives. Mercer M, et al. **J Pediatr Nurs** 1997 Jun;12(3):133–41
The Inventory of Functional Status-Caregiver of a Child in a Body Cast. Newman DM. **J Pediatr Nurs** 1997 Jun; 12(3):142–7
Factors predicting distress among caregivers to children with chronic medical conditions. Canning RD, et al. **J Pediatr Psychol** 1996 Oct;21(5):735–49
Development and evaluation of a measure of concerns related to raising a child with a physical disability. Noojin AB, et al. **J Pediatr Psychol** 1996 Aug;21(4):483–98
Ethnographic detection and description of family strategies for child care: applications to the study of cerebral palsy. Weiss KL, et al. **J Pediatr Psychol** 1997 Apr;22(2):263–78
Appraisal and goal processes as predictors of psychological well-being in bereaved caregivers. Stein N, et al. **J Pers Soc Psychol** 1997 Apr;72(4):872–84
Not gone and not forgotten: a spouse's experience of late-stage Alzheimer's disease. Bonnel WB. **J Psychosoc Nurs Ment Health Serv** 1996 Aug;34(8):23–7
Helping spouses with chronic sorrow related to multiple sclerosis. Hainsworth MA. **J Psychosoc Nurs Ment Health Serv** 1996 Jun;34(6):36–40
Caring for caregivers: perceptions of social support. Rose LE. **J Psychosoc Nurs Ment Health Serv** 1997 Feb; 35(2):17–24
Blood pressure, self-reported symptoms and job-related problems in schoolteachers. Nykliček I, et al. **J Psychosom Res** 1997 Mar;42(3):287–96
Parents' resources and home management of the care of chronically ill infants. Sterling YM, et al. **J Soc Pediatr Nurs** 1996 Oct-Dec;1(3):103–9; quiz 111–2
A piece of my mind. Through the looking glass. Schnipper HH. **JAMA** 1996 Nov 20;276(19):1535–6
Health of grandmothers raising children of the crack cocaine epidemic. Roe KM, et al. **Med Care** 1996 Nov; 34(11):1072–84
Binding ties: the roles of adult siblings of persons with mental retardation. Krauss MW, et al. **Ment Retard** 1996 Apr; 34(2):83–93
Dilemmas faced by families during their young adults' transitions to adulthood: a brief report. Thorin E, et al. **Ment Retard** 1996 Apr;34(2):117–28
Reciprocity, emotional well-being, and family functioning as determinants of family satisfaction in caregivers of elderly parents. Carruth AK, et al. **Nurs Res** 1997 Mar-Apr;46(2):93–100
Understanding the caring relationship during marrow transplantation: family caregivers and healthcare professionals. Compton K, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1428–32 (16 ref.)
Coping strategies of family caregivers of home hospice patients with cancer. Steele RG, et al. **Oncol Nurs Forum** 1996 Jul;23(6):955–60
Loss, grief, and the search for meaning. Steeves RH. **Oncol Nurs Forum** 1996 Jul;23(6):897–903
Needs and experiences of family caregivers during marrow transplantation. Stetz KM, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1422–7
The crisis of cancer: psychological impact on family caregivers. Blanchard CG, et al. **Oncology (Huntingt)** 1997 Feb;11(2):189–94; discussion 196, 201–2
The effects of the clinical characteristics of dying cancer patients on informal caregivers' satisfaction with palliative care. Fakhoury WK, et al. **Palliat Med** 1997 Mar; 11(2):107–15
Physical therapists' perceptions of family involvement in the rehabilitation process. Ryan NP, et al. **Physiother Res Int** 1996;1(3):159–79
The effect of psychosocial nursing intervention on the mood state of patients with implantable cardioverter defibrillators and their caregivers. Sneed NV, et al. **Prog Cardiovasc Nurs** 1997 Spring;12(2):4–14
Family members' ratings of the use and value of mental health services: results of a national NAMI survey. Hatfield AB, et al. **Psychiatr Serv** 1996 Aug;47(8):825–31
Engaging significant others: the Tom Sawyer approach to case management. Kanter J. **Psychiatr Serv** 1996 Aug; 47(8):799–801 (20 ref.)
Grief therapy for relatives of persons with serious mental illness. Miller FE. **Psychiatr Serv** 1996 Jun;47(6):633–7
Family burden of schizophrenia and bipolar disorder: perceptions of relatives and professionals. Mueser KT, et al. **Psychiatr Serv** 1996 May;47(5):507–11
The effect of coping on the caregiver of elderly patients with dementia [published erratum appears in Psychiatry Clin Neurosci 1995 Dec;49(5-6):308] Matsuda O. **Psychiatry Clin Neurosci** 1995 Aug;49(4):209–11
When primary and secondary caregivers disagree: predictors and psychosocial consequences. Bourgeois MS, et al. **Psychol Aging** 1996 Sep;11(3):527–37
Patterns of coping preferences for male and female caregivers of frail older adults. DeVries HM, et al. **Psychol Aging** 1997 Jun;12(2):263–7
Caregivers' appraisals of efficacy in coping with dementia. Gignac MA, et al. **Psychol Aging** 1996 Jun;11(2):214–25
Distinctive late-life challenges: implications for coping and well-being. Kling KC, et al. **Psychol Aging** 1997 Jun; 12(2):288–95
Response biases as a confound to expressed burden among spousal caregivers of suspected dementia patients. O'Rourke N, et al. **Psychol Aging** 1996 Jun;11(2):377–80
Coping strategies of people living in multigenerational households: effects on well-being. Pruchno RA, et al. **Psychol Aging** 1997 Mar;12(1):115–24
Transitions in the caregiving career: effects on sense of mastery. Skaff MM, et al. **Psychol Aging** 1996 Jun; 11(2):247–57
The ethic of care: stability over time, gender differences, and correlates in mid- to late adulthood. Skoe EE, et al. **Psychol Aging** 1996 Jun;11(2):280–92
Where two roles intersect: spillover between parent care and employment. Stephens MA, et al. **Psychol Aging** 1997 Mar; 12(1):30–7
Stress of parent care: positive and negative effects of women's other roles. Stephens MA, et al. **Psychol Aging** 1997 Jun; 12(2):376–86
Family caregiving: measurement of emotional well-being and various aspects of the caregiving role. Schofield HL, et al. **Psychol Med** 1997 May;27(3):647–57
Correlation among three psychological scales used in research of caregivers for patients with Alzheimer's disease. Fritz CL, et al. **Psychol Rep** 1997 Feb;80(1):67–80
Companion animals and the psychological health of Alzheimer patients' caregivers. Fritz CL, et al. **Psychol Rep** 1996 Apr;78(2):467–81
Assisting older family members: association with marital and relationship satisfaction. Griffore RJ. **Psychol Rep** 1997 Aug;81(1):335–6
Perceptions by adult children of elderly parents' needs. Halpern J, et al. **Psychol Rep** 1996 Apr;78(2):571–7
Emotional states and perceived family functioning of caregivers of chronically ill children. Labbé EE. **Psychol Rep** 1996 Dec;79(3 Pt 2):1233–4
Self-esteem and caregivers' attitudes toward elderly persons. Merrill JM, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1349–50
Plasma catecholamine and lymphocyte beta 2-adrenergic receptor alterations in elderly Alzheimer caregivers under stress. Mills PJ, et al. **Psychosom Med** 1997 May-Jun; 59(3):251–6
Chronic caregiving stress alters peripheral blood immune parameters: the role of age and severity of stress. Pariante CM, et al. **Psychother Psychosom** 1997;66(4):199–207
Family caregiver's satisfaction with home care in the Taipei metropolitan area. Chiu L. **Public Health Nurs** 1997 Feb; 14(1):42–50
Social networks of women caregivers. Fudge H, et al. **Public Health Nurs** 1997 Feb;14(1):20–7
Caregivers' knowledge and perceptions of preventing childhood lead poisoning. Mahon I. **Public Health Nurs** 1997 Jun;14(3):169–82
Measuring quality of life in the parents of children with asthma. Juniper EF, et al. **Qual Life Res** 1996 Feb; 5(1):27–34
Theoretical and psychometric analysis of caregiver strain. England M, et al. **Res Nurs Health** 1996 Dec;19(6):499–510
Effects of formal supports on stress outcomes in family caregivers of Alzheimer's patients. Winslow BW. **Res Nurs Health** 1997 Feb;20(1):27–37
Correlates of the caregiving process in multiple sclerosis. O'Brien RA, et al. **Sch Inq Nurs Pract** 1995 Winter; 9(4):323–38; discussion 339–42
Caregiving: concept analysis and outcomes. Swanson EA, et al. **Sch Inq Nurs Pract** 1997 Spring;11(1):65–76; discussion 77–9
Negative labelling of individuals with first episode schizophrenia: the effect of premorbid functioning. Bean G, et al. **Schizophr Res** 1996 Nov 15;22(2):111–8
The perceived family burden scale: measurement and validation. Levene JE, et al. **Schizophr Res** 1996 Nov 15; 22(2):151–7
Psychosocial dimensions of family burden among two groups of carers looking after psychiatric patients. Bibou-Nakou I, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 Feb; 32(2):104–8
How reliable are relatives' retrospective reports of terminal illness? Patients and relatives' accounts compared. Hinton J. **Soc Sci Med** 1996 Oct;43(8):1229–36
The children's sentinels: mothers and their relationships with health professionals in the context of Japanese health care. Saiki-Craighill S. **Soc Sci Med** 1997 Feb;44(3):291–300
Predictors of sense of competence in caregivers of demented persons. Vernooij-Dassen MJ, et al. **Soc Sci Med** 1996 Jul; 43(1):41–9
Families of adults with mental retardation: stress levels and need for services. Hayden MF, et al. **Soc Work** 1996 Nov; 41(6):657–67
Social support networks of confidants to people with AIDS. Jankowski S, et al. **Soc Work** 1996 Mar;41(2):206–13
Who cares for the care-givers? [editorial; comment] Glaus A, et al. **Support Care Cancer** 1996 Nov;4(6):399–400. Comment on: Support Care Cancer 1996 Nov;4(6):408–15.
Engagement and suffering in responsible caregiving: on overcoming maleficience in health care. Schultz DS, et al. **Theor Med** 1996 Sep;17(3):189–207 (17 ref.)
Perceived control and well-being in Parkinson's disease. Wallhagen MI, et al. **West J Nurs Res** 1997 Feb; 19(1):11–25; discussion 25–31
[Measuring the burden for carers of dependent elderly with the Zarit inventory] Bocquet H, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):57–65 (Eng. Abstr.) **(Fre)**
["I never feel free"--women care for the demented husband, father or mother] Adler C, et al. **Gesundheitswesen** 1996 Sep;58 Suppl 2:125–31 (Eng. Abstr.) **(Ger)**

CAREGIVERS

[The German Alzheimer Family Groups. An assessment of current status] Wormstall H, et al. **Nervenarzt** 1996 Sep; 67(9):751–6 (Eng. Abstr.) **(Ger)**

[Changes in the structure of an Alzheimer family group] Wormstall H, et al. **Psychiatr Prax** 1997 May;24(3):117–9 (Eng. Abstr.) **(Ger)**

[Degree of disability of demented patients as judged by relatives and experts (disability insurance)] Zerfass R, et al. **Psychiatr Prax** 1997 Mar;24(2):84–7 (Eng. Abstr.) **(Ger)**

[Nursing care aspects for relatives from the viewpoint of a self-help group] Pammer E. **Wien Med Wochenschr** 1996; 146(21–22):569–73 (Eng. Abstr.) **(Ger)**

[Questionnaire survey of families who lost a member regarding the home care received--mostly of families whose member had terminal cancer] Yoshizawa A, et al. **Gan To Kagaku Ryoho** 1996 Dec;23 Suppl 3:256–60 (Eng. Abstr.) **(Jpn)**

[Caregiver burden and subjective health level in primary caregivers of stroke patients] Usuda S, et al. **Nippon Koshu Eisei Zasshi** 1996 Sep;43(9):854–63 (Eng. Abstr.) **(Jpn)**

[Co-dependence--diagnosis and therapy] Sękowska M. **Przegl Lek** 1997;54(6):441–5 (3 ref.) (Eng. Abstr.) **(Pol)**

[Factors associated with anxiety and taking psychotropic drugs in caregivers of incapacitated patients] García Lozano L, et al. **Aten Primaria** 1996 Oct 31;18(7):395–8 (Eng. Abstr.) **(Spa)**

[Caregiver syndrome in processes with cognitive deterioration (dementia)] Pérez Trullen JM, et al. **Aten Primaria** 1996 Sep 15;18(4):194–202 (62 ref.) **(Spa)**

STATISTICS & NUMERICAL DATA

Informal caregiving to persons with AIDS in the United States: caregiver burden among central cities residents eighteen to forty-nine years old. Turner HA, et al. **Am J Community Psychol** 1997 Feb;25(1):35–59

Comparison of psychotropic agent use among rural elderly caregivers and noncaregivers. Mort JR, et al. **Ann Pharmacother** 1996 Jun;30(6):583–5

A profile of Australian family caregivers: diversity of roles and circumstances. Schofield HL, et al. **Aust N Z J Public Health** 1997 Feb;21(1):59–66

Addressing the barriers to mental health services for inner city children and their caretakers. McKay MM, et al. **Community Ment Health J** 1996 Aug;32(4):353–61

A population needs assessment profile for dementia. Gordon DS, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):642–7

Fifteen years on: evolving ideas in researching sex differences in depression. Wilhelm K, et al. **Psychol Med** 1997 Jul; 27(4):875–83

The influence of male care givers on child health in rural Haiti. Devin RB, et al. **Soc Sci Med** 1996 Aug;43(4):479–88

CARIBOU see **REINDEER**

CARICATURES

Facial distinctiveness and the power of caricatures. Rhodes G, et al. **Perception** 1997;26(2):207–23

HISTORY

Acromegaly, Mr Punch and caricature. Bryson D. **J Audiov Media Med** 1996 Sep;19(3):119–22

CARIES, CERVICAL see **ROOT CARIES**

CARIES, DENTAL see **DENTAL CARIES**

CARIES, ROOT see **ROOT CARIES**

CARING see **EMPATHY**

CARIOGENIC AGENTS

see related
DIET, CARIOGENIC

In vitro and intra-oral investigations into the cariogenic potential of human milk. Thomson ME, et al. **Caries Res** 1996;30(6):434–8

ADMINISTRATION & DOSAGE

Changes in the prescribing of liquid oral medicines (LOMs) in the northern region of England between 1987 and 1992 with special regard to sugar content and long-term use in children. Maguire A, et al. **Community Dent Health** 1997 Mar;14(1):31–5

ADVERSE EFFECTS

Acidogenecy of herbal baby drinks [letter; comment] Watkins J. **Br Dent J** 1996 Apr 6;180(7):247. Comment on: Br Dent J 1996 Feb 10;180(3):98–103.

Cariogenicity tests. Imfeld T. **Fogorv Sz** 1997 Apr;90 Spec No:26

PHARMACOLOGY

Effects of copper, iron and fluoride co-crystallized with sugar on caries development and acid formation in deslivated rats. Rosalen PL, et al. **Arch Oral Biol** 1996 Nov; 41(11):1003–10

The effects of isomaltulose, isomalt, and isomaltulose-based oligomers on mineral absorption and retention. Kashimura J, et al. **Biol Trace Elem Res** 1996 Sep;54(3):239–50

Integration of methods for determining the acido/cariogenic potential of foods: a comparison of several different methods. Curzon ME, et al. **Caries Res** 1996;30(2):126–31

CARIOSTATIC AGENTS

see related
FLUORIDATION

Chewing of xylitol gum--a well adopted practice among finnish adolescents. Honkala E, et al. **Caries Res** 1996; 30(1):34–9

ADA statement on FDA toothpaste warning labels [news] **N Y State Dent J** 1997 Aug-Sep;63(7):50

ADMINISTRATION & DOSAGE

Determination of fluoride from fluoride-releasing elastomeric ligature ties [see comments] Wiltshire WA. **Am J Orthod Dentofacial Orthop** 1996 Oct;110(4):383–7. Comment in: Am J Orthod Dentofacial Orthop 1997 Apr;111(4):33A.

Influence of fluoride co-crystallized with sugar on caries development in desalivated rats. Rosalen PL, et al. **Arch Oral Biol** 1997 Apr;42(4):317–22

Fluoride supplement dosage. British Dental Association, the British Society of Paediatric Dentistry and the British Association for the Study of Community Dentistry [see comments] **Br Dent J** 1997 Jan 11;182(1):6–7. Comment in: Br Dent J 1997 Mar 22;182(6):206.

Pandora's box [letter; comment] Gebbie CJ. **Br Dent J** 1997 Feb 8;182(3):88. Comment on: Br Dent J 1996 Dec 7–21;181(11–12):391.

Dietary fluoride supplement dosage [letter; comment] Holloway PJ. **Br Dent J** 1997 Apr 26;182(8):290. Comment on: Br Dent J 1997 Jan 25;182(2):48.

Non-evidence-based fluoride prescribing recommendations [letter] [see comments] Stephen KW. **Br Dent J** 1997 Jan 25;182(2):48. Comment in: Br Dent J 1997 Apr 26;182(8):290.

An in situ interproximal model for studying the effect of fluoride on enamel. Dunipace AJ, et al. **Caries Res** 1997; 31(1):60–70

The cessation of fluoridated water administration and the fluoride distribution profiles in rat molar cementum. Ito T, et al. **Caries Res** 1997;31(5):390–6

In vivo cariostatic effect of resin modified glass ionomer cement and amalgam on dentine. Kreulen CM, et al. **Caries Res** 1997;31(5):384–9

Salivary fluoride concentration and plaque pH after using a fluoride-containing chewing gum. Sjögren K, et al. **Caries Res** 1997;31(5):366–72

Fluorides and oral health. Barmes DE. **Community Dent Health** 1996 Sep;13 Suppl 2:3–4

Caries prevalence and salt fluoridation among 9-year-old schoolchildren in Strasbourg, France. Fabien V, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):408–11

A clinical evaluation of the effectiveness of including fluoride into an orthodontic bonding adhesive. Banks PA, et al. **Eur J Orthod** 1997 Aug;19(4):391–5

Effects of compliance with fluoride gel application on caries and caries risk in patients after radiation therapy for head and neck cancer. Epstein JB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):268–75

Fluoride levels in whole saliva of preschool children after brushing with 0.25 g (pea-sized) as compared to 1.0 g (full-brush) of a fluoride dentifrice. DenBesten P, et al. **Pediatr Dent** 1996 Jul-Aug;18(4):277–80

ADVERSE EFFECTS

Safety issues related to the use of silver fluoride in paediatric dentistry. Gotjamanos T. **Aust Dent J** 1997 Jun;42(3):166–8

Fluoride mouthrinse [letter] Fayle S, et al. **Br Dent J** 1996 Feb 24;180(4):129

ANALYSIS

Salivary fluoride concentration in adults after different fluoride procedures. Seppä L, et al. **Acta Odontol Scand** 1997 Apr;55(2):84–7

Fluoride level in saliva after bonding orthodontic brackets with a fluoride containing adhesive. Ogaard B, et al. **Am J Orthod Dentofacial Orthop** 1997 Feb;111(2):199–202

Salivary and urinary fluoride levels after 1-month use of fluoride-releasing removable appliances. Alaçam A, et al. **Caries Res** 1996;30(3):200–3

Fluoride content of the enamel and dentine of human premolars prior to and following the introduction of fluoridation in New Zealand. Cutress TW, et al. **Caries Res** 1996;30(3):204–12

Rise and fall of caries prevalence in German towns with different F concentrations in drinking water. Künzel W, et al. **Caries Res** 1997;31(3):166–73

Fluoride and mutans streptococci levels in plaque on aged restorations of resin-modified glass ionomer cement, compomer and resin composite. van Dijken JW, et al. **Caries Res** 1997;31(5):379–83

Analysis of fluoride ion concentrations and in vitro fluoride uptake from different commercial dentifrices. Itthagarun A, et al. **Int Dent J** 1996 Aug;46(4):357–61

CHEMISTRY

Resin-modified glass ionomer cements: fluoride release and influence on Streptococcus mutans growth. Friedl KH, et al. **Eur J Oral Sci** 1997 Feb;105(1):81–5

Effect of topical fluoride agents on the morphologic characteristics and composition of resin composite restorative materials. Papagiannoulis L, et al. **J Prosthet Dent** 1997 Apr;77(4):405–13

Fluoridated and nonfluoridated unfilled sealants show similar shear strength. Marcushamer M, et al. **Pediatr Dent** 1997 May-Jun;19(4):289–90

PHARMACOKINETICS

Fluoride uptake by proximal surfaces from professionally applied fluorides: an in vitro study. Kohli K, et al. **ASDC J Dent Child** 1997 Jan-Feb;64(1):28–31

The cessation of fluoridated water administration and the fluoride distribution profiles in rat molar cementum. Ito T, et al. **Caries Res** 1997;31(5):390–6

The role of cation bridging in microbial fluoride binding. Rose RK, et al. **Caries Res** 1996;30(6):458–64

In vitro dentine fluoride uptake from three fluoride-containing composites and their acid resistance. Kawai K, et al. **J Dent** 1997 May-Jul;25(3–4):291–6

Release of cariostatic agents from a new buffering fluoride- and xylitol-containing lozenge to human whole saliva in vivo. Tenovuo J, et al. **J Oral Rehabil** 1997 May; 24(5):325–31

Fluoride uptake into the developing enamel and dentine of sheep incisors following daily ingestion of fluoridated milk or water. Cutress TW, et al. **N Z Dent J** 1996 Sep; 92(409):68–72

PHARMACOLOGY

Galactose oxidase-glucan binding domain fusion proteins as targeting inhibitors of dental plaque bacteria. Lis M, et al. **Antimicrob Agents Chemother** 1997 May;41(5):999–1003

Effects of copper, iron and fluoride co-crystallized with sugar on caries development and acid formation in deslivated rats. Rosalen PL, et al. **Arch Oral Biol** 1996 Nov; 41(11):1003–10

Inhibitory effects of funoran on the adherence and colonization of mutans streptococci. Saeki Y, et al. **Caries Res** 1996;30(2):119–25

Efficacy of a chlorhexidine and a chlorhexidine-fluoride varnish mixture to decrease interdental levels of mutans streptococci. Twetman S, et al. **Caries Res** 1997;31(5):361–5

Influence of polymers for use in saliva substitutes on de- and remineralization of enamel in vitro. van der Reijden WA, et al. **Caries Res** 1997;31(3):216–23

Are sodium lauryl sulfate-containing toothpastes suitable vehicles for xylitol? Assev S, et al. **Eur J Oral Sci** 1997 Apr;105(2):178–82

The effect of topical fluoride agents on saliva secretion. Engel-Brill N, et al. **J Oral Rehabil** 1996 Jul;23(7):501–4

THERAPEUTIC USE

Retention of titanium tetrafluoride (TiF4), used as fissure sealant on human deciduous molars. Büyükyilmaz T, et al. **Acta Odontol Scand** 1997 Apr;55(2):73–8

Direct evidence concerning the 'major role' of fluoride dentifrices in the caries decline. A 6-year analytical cohort study. Haugejorden O, et al. **Acta Odontol Scand** 1997 Jun; 55(3):173–80

Effect of supervised use of an alum mouthrinse on dental caries incidence in caries-susceptible children: a pilot study. Kleber CJ, et al. **ASDC J Dent Child** 1996 Nov-Dec; 63(6):393–402

Silver fluoride use [letter; comment] Gotjamanos T. **Aust Dent J** 1997 Apr;42(2):138. Comment on: Aust Dent J 1997 Feb;42(1):66–7.

The place of fluoride supplements in caries prevention today. Riordan PJ. **Aust Dent J** 1996 Oct;41(5):335–42 (78 ref.)

Prior fluoridation in childhood affects dental caries and tooth wear in a south east Queensland population. Teo C, et al. **Aust Dent J** 1997 Apr;42(2):92–102

Cariostatic effect of aspartame in rats. Das S, et al. **Caries Res** 1997;31(1):78–83

Atraumatic restorative treatment and glass-ionomer sealants in a school oral health programme in Zimbabwe: evaluation after 1 year. Frencken JE, et al. **Caries Res** 1996; 30(6):428–33

Comparative three-year caries protection from an aluminum-containing and a fluoride-containing toothpaste. Heidmann J, et al. **Caries Res** 1997;31(2):85–90

Effect of a fluoridated toothpaste on lesion development in plaque-filled dentine grooves: an intra-oral study. Lagerweij MD, et al. **Caries Res** 1997;31(2):141–7

Randomized clinical trial of the effect of prenatal fluoride supplements in preventing dental caries. Leverett DH, et al. **Caries Res** 1997;31(3):174–9

Polyol chewing gums and caries rates in primary dentition: a 24-month cohort study. Mäkinen KK, et al. **Caries Res** 1996;30(6):408–17

Fluoride and pilocarpine reduce the risk of caries produced by chronic clomipramine treatment in rats. Martínez-Gomis J, et al. **Caries Res** 1997;31(2):155–60

Oral hygiene as a variable in dental caries experience in 14-year-olds exposed to fluoride. Mathiesen AT, et al. **Caries Res** 1996;30(1):29–33

Influence of iron alone or with fluoride on caries development in desalivated and intact rats. Miguel JC, et al. **Caries Res** 1997;31(3):244–8
Effect of copper co-crystallized with sugar on caries development in desalivated rats. Rosalen PL, et al. **Caries Res** 1996;30(5):367–72
The effect of sodium trimetaphosphate on caries: a 3-year clinical toothpaste trial. Städtler P, et al. **Caries Res** 1996; 30(6):418–22
Effect of a two-solution fluoride mouth rinse on deposition of loosely bound fluoride on sound root tissue and remineralization of root lesions in vitro. Takagi S, et al. **Caries Res** 1997;31(3):206–11
The effect of fluoridated milk on human dental enamel in an in vitro demineralization model. Tóth Z, et al. **Caries Res** 1997;31(3):212–5
A clinical trial of two fluoride dentifrices in an area of low caries prevalence. Glass RL, et al. **Community Dent Health** 1997 Jun;14(2):74–8
Effectiveness of visible light fissure sealant (Delton) versus fluoride varnish (Duraphat): 24-month clinical trial. Bravo M, et al. **Community Dent Oral Epidemiol** 1996 Feb; 24(1):42–6
Using the DMF gender difference to assess the "major" role of fluoride toothpastes in the caries decline in industrialized countries: a meta-analysis [published erratum appears in Community Dent Oral Epidemiol 1997 Apr;25(2):192] Haugejorden O. **Community Dent Oral Epidemiol** 1996 Dec;24(6):369–75
The start of caries decline and related fluoride use in Norway. von der Fehr FR, et al. **Eur J Oral Sci** 1997 Feb;105(1):21–6
Longevity and cariostatic effects of everyday conventional glass-ionomer and amalgam restorations in primary teeth: three-year results. Qvist V, et al. **J Dent Res** 1997 Jul; 76(7):1387–96
Clinical observations of noncoping overdenture abutments protected by tannin-fluoride preparation. Yamaga T, et al. **J Prosthet Dent** 1997 Sep;78(3):315–9
Remineralization of caries-like lesions of enamel with acidulated calcifying fluids: a polarized light microscopic study. Flaitz CM, et al. **Pediatr Dent** 1996 May-Jun; 18(3):205–9
Patterns of fluoride dentifrice use among infants. Levy SM, et al. **Pediatr Dent** 1997 Jan-Feb;19(1):50–5
Remineralization of natural carious lesions with a glass ionomer cement. Hatibovic-Kofman S, et al. **Swed Dent J** 1997;21(1-2):11–7
[Preventive effect of 10% (NH4)2MoO2F4 solution on artificial root-surface caries in vitro] Yang D, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Sep; 30(5):274–6, 319–20 (Eng. Abstr.) **(Chi)**
[The nature of the action of chemical substances on the activity of the microflora in soft dental deposits] Leont'ev VK, et al. **Stomatologiia (Mosk)** 1997;76(3):5–11 (Eng. Abstr.) **(Rus)**

CARISOPRODATE see **CARISOPRODOL**

CARISOPRODOL

ADMINISTRATION & DOSAGE

[Use of carisoprodol (Somadril) (letter)] Rygnestad T, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):1004–5 **(Nor)**

PHARMACOKINETICS

Formation of meprobamate from carisoprodol is catalysed by CYP2C19. Dalén P, et al. **Pharmacogenetics** 1996 Oct; 6(5):387–94

TOXICITY

Reproductive toxicology. Carisoprodol. **Environ Health Perspect** 1997 Feb;105 Suppl 1:283–4

CARLAVIRUS

GENETICS

Deletion analysis of a translational enhancer upstream from the coat protein open reading frame of potato virus S. Turner R, et al. **Arch Virol** 1997;142(1):167–75

IMMUNOLOGY

Partial antigenic characterization of potato virus S (Andean strain) by monoclonal antibodies. Ceřovská N, et al. **Acta Virol** 1996 Feb;40(1):23–6

CARMINE

ANALOGS & DERIVATIVES

[A 13-week toxicity study of simultaneous administration of cochineal and aluminum potassium sulfate in rats] Kawasaki Y, et al. **Eisei Shikenjo Hokoku** 1994;(112):48–56 (Eng. Abstr.) **(Jpn)**

CARMINOMYCIN see **CARUBICIN**

CARMOVIRUS

GENETICS

Genome organization and gene expression of saguaro cactus carmovirus. Weng Z, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):525–34
In vivo repair of 3'-end deletions in a TCV satellite RNA may involve two abortive synthesis and priming events. Carpenter CD, et al. **Virology** 1996 Dec 15;226(2):153–60
Analysis of the two subgenomic RNA promoters for turnip crinkle virus in vivo and in vitro. Wang J, et al. **Virology** 1997 May 26;232(1):174–86

GROWTH & DEVELOPMENT

Identification of an Arabidopsis locus required for resistance to turnip crinkle virus. Dempsey DA, et al. **Plant J** 1997 Feb;11(2):301–11

METABOLISM

A novel 3'-end repair mechanism in an RNA virus [published erratum appears in Proc Natl Acad Sci U S A 1997 May 27;94(11):5980-2] Nagy PD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1113–8

PHYSIOLOGY

Encapsidation of turnip crinkle virus is defined by a specific packaging signal and RNA size. Qu F, et al. **J Virol** 1997 Feb;71(2):1428–35

CARMUSTINE

ADMINISTRATION & DOSAGE

Phase II trial with BCNU plus alpha-interferon in patients with recurrent high-grade gliomas. Brandes AA, et al. **Am J Clin Oncol** 1997 Aug;20(4):364–7
High-dose BCNU with ABMT followed by radiation therapy in the treatment of supratentorial glioblastoma multiforme. Linassier C, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S69–72
High-dose carmustine for high-grade gliomas in childhood. Bouffet E, et al. **Cancer Chemother Pharmacol** 1997; 39(4):376–9
Optimizing interstitial delivery of BCNU from controlled release polymers for the treatment of brain tumors. Sipos EP, et al. **Cancer Chemother Pharmacol** 1997;39(5):383–9
Local delivery of chemotherapy and concurrent external beam radiotherapy prolongs survival in metastatic brain tumor models. Ewend MG, et al. **Cancer Res** 1996 Nov 15;56(22):5217–23
2-Chloroethyl-3-sarcosinamide-1-nitrosourea, a novel chloroethylnitrosourea analogue with enhanced antitumor activity against human glioma xenografts. Marcantonio D, et al. **Cancer Res** 1997 Sep 15;57(18):3895–8
Interstitial chemotherapy with carmustine-loaded polymers for high-grade gliomas: a randomized double-blind study. Valtonen S, et al. **Neurosurgery** 1997 Jul;41(1):44–8; discussion 48–9

ADVERSE EFFECTS

Headache, circumoral paresthesia, and facial flushing associated with high-dose carmustine infusion. Woo MH, et al. **Bone Marrow Transplant** 1997 Apr;19(8):845–7
Carmustine and the lungs . Schmitz N, et al. **Lancet** 1997 Jun 14;349(9067):1712–3

ANALOGS & DERIVATIVES

2-Chloroethyl-3-sarcosinamide-1-nitrosourea, a novel chloroethylnitrosourea analogue with enhanced antitumor activity against human glioma xenografts. Marcantonio D, et al. **Cancer Res** 1997 Sep 15;57(18):3895–8

CHEMISTRY

In vitro reactivity of the antineoplastic drug carmustin and acrolein with model peptides. Carbone V, et al. **J Pept Res** 1997 Jun;49(6):586–95

METABOLISM

Formulation of BCNU-loaded microspheres: influence of drug stability and solubility on the design of the microencapsulation procedure. Torres AI, et al. **J Microencapsul** 1996 Jan-Feb;13(1):41–51

PHARMACOKINETICS

Controlled modulation of BBB permeability using the bradykinin agonist, RMP-7. Bartus RT, et al. **Exp Neurol** 1996 Nov;142(1):14–28
Predicted and actual BCNU concentrations in normal rabbit brain during intraarterial and intravenous infusions. Hassenbusch SJ, et al. **J Neurooncol** 1996 Oct;30(1):7–18
Morphological characterization of polyanhydride biodegradable implant gliadel during in vitro and in vivo erosion using scanning electron microscopy. Dang W, et al. **Pharm Res** 1996 May;13(5):683–91
Chemotherapeutic drugs released from polymers: distribution of 1,3-bis(2-chloroethyl)-1-nitrosourea in the rat brain. Fung LK, et al. **Pharm Res** 1996 May;13(5):671–82

PHARMACOLOGY

Immunomodulation and enhancement of antitumor activity by co-administration of 1,3-bis(2-chloroethyl)-1-nitrosourea and thymidine. Poo WJ, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):705–13
Carbamoylation of glutathione reductase by N,N-bis(2-chloroethyl)-N- nitrosourea associated with inhibition of multidrug resistance protein (MRP) function. Vanhoefer U, et al. **Biochem Pharmacol** 1997 Mar 21; 53(6):801–9
DNA interstrand cross-linking and cytotoxicity induced by chloroethylnitrosoureas and cisplatin in human glioma cell lines which vary in cellular concentration of O6-alkylguanine-DNA alkyltransferase. Beith J, et al. **Br J Cancer** 1997;75(4):500–5
The relationship of a novel drug-resistant phenotype in C3H10T1/2 cells selected with alkylating agents to neoplastic transformation and ATP metabolism. Wroblewski-Giorgio D, et al. **Cancer Lett** 1997 Feb 26; 113(1-2):195–203
Mismatch repair mutations override alkyltransferase in conferring resistance to temozolomide but not to 1,3-bis(2-chloroethyl)nitrosourea. Liu L, et al. **Cancer Res** 1996 Dec 1;56(23):5375–9
Effect of cisplatin and BCNU on MMP-2 levels in human glioblastoma cell lines in vitro. Chintala SK, et al. **Clin Exp Metastasis** 1997 Jul;15(4):361–7
Cisplatin but not BCNU inhibits urokinase-type plasminogen activator levels in human glioblastoma cell lines in vitro. Go Y, et al. **Clin Exp Metastasis** 1997 Jul;15(4):447–52
Role of O6-methylguanine-DNA methyltransferase, glutathione transferase M3-3 and glutathione in resistance to carmustine in a human non-small cell lung cancer cell line. Egyházi S, et al. **Eur J Cancer** 1997 Mar;33(3):447–52
Human alkyltransferase-transduced murine myeloid progenitors are enriched in vivo by BCNU treatment of transplanted mice. Allay JA, et al. **Exp Hematol** 1997 Sep; 25(10):1069–76
The 58 kDa mouse selenoprotein is a BCNU-sensitive thioredoxin reductase. Gromer S, et al. **FEBS Lett** 1997 Jul 28;412(2):318–20
No-induced oxidative stress and glutathione metabolism in rodent and human cells. Luperchio S, et al. **Free Radic Biol Med** 1996;21(4):513–9
Lonidamine induces apoptosis in drug-resistant cells independently of the p53 gene. Del Bufalo D, et al. **J Clin Invest** 1996 Sep 1;98(5):1165–73
Computer-assisted microscope characterization of BCNU-induced modifications in the collective behavior of 12 human brain cancer cell lines. Camby I, et al. **J Neurooncol** 1996 Apr;28(1):1–11

THERAPEUTIC USE

Intraarterial O6-benzylguanine enabies the specific therapy of nitrosourea-resistant intracranial human glioma xenografts in athymic rats with 1,3-bis(2-chloroethyl)-1-nitrosourea. Kurpad SN, et al. **Cancer Chemother Pharmacol** 1997;39(4):307–16
Quantitative DNA analysis of an intracerebrally transplanted brain tumour model after experimental chemotherapy with BCNU and CCNU. Schlegel J, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):313–8
Human brain tumor O(6)-methylguanine-DNA methyltransferase mRNA and its significance as an indicator of selective chloroethylnitrosourea chemotherapy. Mineura K, et al. **Int J Cancer** 1996 Oct 21;69(5):420–5
Treatment of recurrent malignant glioma with BCNU-fluosol and oxygen inhalation. A phase I-II study. Hochberg F, et al. **J Neurooncol** 1997 Mar;32(1):45–55
Contemporary chemotherapy issues for children with brainstem gliomas. Allen JC, et al. **Pediatr Neurosurg** 1996; 24(2):98–102

TOXICITY

O6-benzylguanine potentiates the in vivo toxicity and clastogenicity of temozolomide and BCNU in mouse bone marrow. Chinnasamy N, et al. **Blood** 1997 Mar 1; 89(5):1566–73
Reversal of 1,3-bis(2-chloroethyl)-1-nitrosourea-induced severe immunodeficiency by transduction of murine long-lived hemopoietic progenitor cells using O6-methylguanine DNA methyltransferase complementary DNA. Maze R, et al. **J Immunol** 1997 Jan 15;158(2):1006–13
Effects of hypoxia on drug resistance phenotype and genotype in human glioma cell lines. Liang BC. **J Neurooncol** 1996 Aug;29(2):149–55
Retroviral transduction of a mutant methylguanine DNA methyltransferase gene into human CD34 cells confers resistance to O6-benzylguanine plus 1,3-bis(2-chloroethyl)-1-nitrosourea. Reese JS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14088–93

CARNATION LATENT VIRUSES see **CARLAVIRUS**

CARNITINE

Carnitine depletion during total parenteral nutrition despite oral L-carnitine supplementation. Hirose S, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):194–200

CARNITINE

ADMINISTRATION & DOSAGE

Supplementation of aspartate, asparagine and carnitine in the diet causes marked changes in the ultrastructure of soleus muscle. Lancha Júnior AH, et al. **J Submicrosc Cytol Pathol** 1997 Jul;29(3):405–8

Amantadine and L–carnitine treatment of Chronic Fatigue Syndrome. Plioplys AV, et al. **Neuropsychobiology** 1997; 35(1):16–23

Effect of oral L–carnitine on serum myoglobin in hemodialysis patients. Feinfeld DA, et al. **Ren Fail** 1996 Jan;18(1):91–6

Effect of carnitine administration on glycine metabolism in patients with isovaleric acidemia: significance of acetylcarnitine determination to estimate the proper carnitine dose. Itoh T, et al. **Tohoku J Exp Med** 1996 Jun; 179(2):101–9

[Influence of multiple–dose administration of cefetamet pivoxil on blood and urinary concentrations of carnitine and effects of simultaneous administration of carnitine with cefetamet pivoxil] Nakashima M, et al. **Jpn J Antibiot** 1996 Oct;49(10):966–79 (Eng. Abstr.) **(Jpn)**

ANALOGS & DERIVATIVES

Control of oxidative metabolism in volume–overloaded rat hearts: effect of pretreatment with propionyl–L–carnitine. Moravec J, et al. **Adv Exp Med Biol** 1996;388:205–12

Effect of propionyl–L–carnitine on quality of life in intermittent claudication. Brevetti G, et al. **Am J Cardiol** 1997 Mar 15;79(6):777–80

Control of oxidative metabolism in volume–overloaded rat hearts: effect of propionyl–L–carnitine. El Alaoui–Talibi Z, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1615–24

Acylcarnitine chain length influences carnitine–enhanced drug flux through the spinal meninges in vitro. Ummenhofer WC, et al. **Anesthesiology** 1997 Mar; 86(3):642–8

Inhibitory effect of acyl–CoA and acyl–carnitine compounds on the ischemia–inducing activity of Bordetella heat–labile toxin in guinea pig skin. Nagai M, et al. **Biol Pharm Bull** 1997 Feb;20(2):193–5

Additional antiischemic effects of long–term L–propionylcarnitine in anginal patients treated with conventional antianginal therapy. Bartels GL, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):749–53

HPLC determination of carnitine and acylcarnitines in human plasma by means of fluorescence labeling using 2–(4–hydrazinocarbonylphenyl)–4,5–diphenylimidazole. Kuroda N, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug; 44(8):1525–9

Metabolic studies in twin brothers with 2–methylacetoacetyl–CoA thiolase deficiency. Fontaine M, et al. **Clin Chim Acta** 1996 Nov 15;255(1):67–83

The effect of propionyl L–carnitine on skeletal muscle metabolism in renal failure. Thompson CH, et al. **Clin Nephrol** 1997 Jun;47(6):372–8

Protective effect of L–propionylcarnitine on cyclosporine–induced nephrotoxicity. Bertelli A, et al. **Drugs Exp Clin Res** 1995;21(6):221–8

Technetium–99m sestamibi leg scintigraphy for non–invasive assessment of propionyl–L–carnitine induced changes in skeletal muscle metabolism. Cittanti C, et al. **Eur J Nucl Med** 1997 Jul;24(7):762–6

Effect of propionyl–L–carnitine on oscillatory potentials in electroretinogram in streptozotocin–diabetic rats. Hotta N, et al. **Eur J Pharmacol** 1996 Sep 12;311(2–3):199–206

Positive action of propionyl–L–carnitine on mechanical performance of papillary muscle from Syrian hamsters with hereditary dilated cardiomyopathy. Maresca P, et al. **Eur J Pharmacol** 1995 Dec 20;287(3):303–7

Investigation of the influence of theophylline feeding on total, free, short–chain acyl and long–chain acyl carnitine levels in skeletal muscle and liver of rats. al–Jafari AA, et al. **In Vivo** 1996 Nov–Dec;10(6):569–74

Propionyl–L–carnitine in chronic leg ulcers of homozygous sickle cell disease: a pilot study. Serjeant BE, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):491–3

Determination of L–carnitine, acetyl–L–carnitine and propionyl–L–carnitine in human plasma by high–performance liquid chromatography after pre–column derivatization with 1–aminoanthracene. Longo A, et al. **J Chromatogr B Biomed Appl** 1996 Nov 15;686(2):129–39

Propionyl–L–carnitine for intermittent claudication. Deckert J. **J Fam Pract** 1997 Jun;44(6):533–4

High performance liquid chromatography of long–chain acylcarnitine and phospholipids in fatty acid turnover studies. Arduini A, et al. **J Lipid Res** 1996 Mar;37(3):684–9

Quantitative analysis of plasma acylcarnitines using gas chromatography chemical ionization mass fragmentography. Costa CG, et al. **J Lipid Res** 1997 Jan; 38(1):173–82

Changes in skeletal muscle histology and metabolism in patients undergoing exercise deconditioning: effect of propionyl–L–carnitine. Brevetti G, et al. **Muscle Nerve** 1997 Sep;20(9):1115–20

Enhancement of nasal salmon calcitonin absorption by lauroylcarnitine chloride in rats. Kagatani S, et al. **Pharm Res** 1996 May;13(5):739–43

Metabolic and renal effects of Laevo–carnitine and propionyl–carnitine in rats with subtotal nephrectomy. Palomba D, et al. **Pharmacol Res** 1996 Sep–Oct; 34(3–4):161–5

Effects of carnitine and its derivatives on gastric acid secretion in rats. Valoti M, et al. **Pharmacol Res** 1996 Nov–Dec;34(5–6):219–24

Cyclosporine nephrotoxicity evaluated by tissue calcium deposition and tubular enzymes is prevented by L–propionylcarnitine in isolated perfused rat kidney. Giovannini L, et al. **Transplant Proc** 1996 Dec;28(6):3122–5

ANALYSIS

Plasma and tissue levels of lipids, fatty acids and plasma carnitine in neonates receiving a new fat emulsion. Magnusson G, et al. **Acta Paediatr** 1997 Jun;86(6):638–44

Total, free, short–chain and long–chain acyl carnitine levels in Arabian camel milk (Camelus dromedarius). Alhomida AS. **Ann Nutr Metab** 1996;40(4):221–6

Alteration of tissue carnitine content following anaesthesia with barbiturate and surgery in rat. Pessotto P, et al. **Int J Clin Pharmacol Res** 1995;15(5–6):191–9

The distribution of total, free, short–chain acyl and long–chain acyl carnitine in ocular tissues of the camel (Camelus dromedarius). Alhomida AS, et al. **J Ocul Pharmacol Ther** 1997 Aug;13(4):381–7

Separation of carnitine enantiomers as the 9–anthroylnitrile derivatives and high–performance liquid chromatographic analysis on an ovomucoid–conjugated column. Takahashi M, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1579–84

BIOSYNTHESIS

Inhibition of carnitine biosynthesis by valproic acid in rats—the biochemical mechanism of inhibition. Farkas V, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1429–33

BLOOD

Plasma and tissue levels of lipids, fatty acids and plasma carnitine in neonates receiving a new fat emulsion. Magnusson G, et al. **Acta Paediatr** 1997 Jun;86(6):638–44

Relation between choline and carnitine homeostasis [letter; comment] Buchman AL. **Am J Clin Nutr** 1997 Feb; 65(2):574–5. Comment on: Am J Clin Nutr 1996 Jun;63(6):904–10.

L–carnitine and acetyl–L–carnitine status during hemodialysis with acetate in humans: a kinetic analysis [see comments] Jackson JM, et al. **Am J Clin Nutr** 1996 Dec; 64(6):922–7. Comment in: Am J Clin Nutr 1996 Dec;64(6):976–7.

Effect of chronic renal hemodialysis on serum total, free and acyl carnitine concentrations in adult chronic pyelonephritis patients. Alhomida AS. **Arch Med Res** 1997 Spring;28(1):101–7

Decreased plasma carnitine and trimethyl–L–lysine levels associated with lysosomal accumulation of a trimethyl–L–lysine containing protein in Batten disease. Katz ML. **Biochim Biophys Acta** 1996 Dec 16;1317(3):192–8

Reduction in blood free carnitine levels in association with changes in sodium valproate (VPA) disposition in epileptic patients treated with VPA and other anti–epileptic drugs. Hiraoka A, et al. **Biol Pharm Bull** 1997 Jan;20(1):91–3

HPLC determination of carnitine and acylcarnitines in human plasma by means of fluorescence labeling using 2–(4–hydrazinocarbonylphenyl)–4,5–diphenylimidazole. Kuroda N, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug; 44(8):1525–9

The human plasmalemmal carnitine transporter defect is expressed in cultured lymphoblasts: a new non–invasive method for diagnosis [letter] Tein I, et al. **Clin Chim Acta** 1996 Aug 30;252(2):201–4

Acute myocardial ischaemia induces cardiac carnitine release in man. Bartels GL, et al. **Eur Heart J** 1997 Jan;18(1):84–90

Determination of L–carnitine, acetyl–L–carnitine and propionyl–L–carnitine in human plasma by high–performance liquid chromatography after pre–column derivatization with 1–aminoanthracene. Longo A, et al. **J Chromatogr B Biomed Appl** 1996 Nov 15;686(2):129–39

The effect of acute administration of ACTH and levothyroxine on serum carnitine [letter] Gilchrist JM, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3176–7

Pregnancy–related changes of carnitine and acylcarnitine concentrations of plasma and erythrocytes. Schoderbeck M, et al. **J Perinat Med** 1995;23(6):477–85

Cardioprotective effect of carnitine in fulminant diphtheria [letter] Havaldar PV. **J Trop Pediatr** 1997 Jun;43(3):187–8

The effects of 3–hydroxy–3–methylglutaryl–CoA reductase inhibition on tissue levels of carnitine and carnitine acyltransferase activity in the rabbit. Bhuiyan J, et al. **Lipids** 1996 Aug;31(8):867–70

Serum levels of carnitine, apolipoprotein A I, and apolipoprotein B in children with nephrotic proteinuria [letter] Bircan Z, et al. **Pediatr Nephrol** 1996 Oct;10(5):680

Serum carnitine and disabling fatigue in multiple sclerosis. Fukazawa T, et al. **Psychiatry Clin Neurosci** 1996 Dec; 50(6):323–5

Plasma carnitine kinetics during orthotopic liver transplantation. Miki C, et al. **Scand J Gastroenterol** 1997 Apr;32(4):357–62

[Determination of total free erythrocyte carnitine in an ultrafiltrate of hemolysate] Iordache A, et al. **Pathol Biol (Paris)** 1996 Oct;44(8):720–3 (Eng. Abstr.) **(Fre)**

[Level of total plasma carnitine in patients with chronic renal failure in the course of diabetes and other etiologies treated with hemodialysis] Gumprecht J, et al. **Pol Arch Med Wewn** 1995 Nov;94(5):403–9 (Eng. Abstr.) **(Pol)**

[Evaluation of the effect of long term valproic acid treatment on plasma levels of carnitine, ammonia and amino acids related to the urea cycle in pediatric epileptic patients] Navarro–Quesada FJ, et al. **Rev Neurol** 1997 Jul; 25(143):1037–44 (Eng. Abstr.) **(Spa)**

CEREBROSPINAL FLUID

Cerebrospinal fluid carnitine levels in patients with Parkinson's disease. Jiménez–Jiménez FJ, et al. **J Neurol Sci** 1997 Feb 12;145(2):183–5

DEFICIENCY

MR in children with L–carnitine deficiency. Thompson JE, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1585–8

The effect of propionyl L–carnitine on skeletal muscle metabolism in renal failure. Thompson CH, et al. **Clin Nephrol** 1997 Jun;47(6):372–8

Disordered expression of glycolytic and gluconeogenic liver enzymes of juvenile visceral steatosis mice with systemic carnitine deficiency. Hotta K, et al. **Diabetes Res Clin Pract** 1996 May;32(3):117–23

A novel gene suppressed in the ventricle of carnitine–deficient juvenile visceral steatosis mice. Masuda M, et al. **FEBS Lett** 1997 May 19;408(2):221–4

Definition of the locus responsible for systemic carnitine deficiency within a 1.6–cM region of mouse chromosome 11 by detailed linkage analysis. Okita K, et al. **Genomics** 1996 Apr 15;33(2):289–91

Suppressed expression of the urea cycle enzyme genes in the liver of carnitine–deficient juvenile visceral steatosis (JVS) mice in infancy and during starvation in adulthood. Tomomura M, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):172–7

Altered expression of atrial natriuretic peptide and contractile protein genes in hypertrophied ventricle of JVS mice with systemic carnitine deficiency. Yoshimine K, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):571–8

Pivalic acid–induced carnitine deficiency and physical exercise in humans. Abrahamsson K, et al. **Metabolism** 1996 Dec;45(12):1501–7

The effect of carnitine on ketogenesis in perfused livers from juvenile visceral steatosis mice with systemic carnitine deficiency. Nakajima T, et al. **Pediatr Res** 1997 Jul; 42(1):108–13

Neonatal nutritional carnitine deficiency: a piglet model. Penn D, et al. **Pediatr Res** 1997 Jul;42(1):114–21

Serum carnitine levels in ambulatory epilepsy outpatients. Drake ME Jr, et al. **Seizure** 1996 Dec;5(4):251–3

[L–carnitine deficiency] Pistorio E, et al. **Clin Ter** 1996 Jul–Aug;147(7–8):403–5 (Eng. Abstr.) **(Ita)**

[Abnormal gene expression related with symptoms in inherited metabolic disease] Horiuchi M, et al. **Seikagaku** 1996 Oct;68(10):1654–7 (16 ref.) **(Jpn)**

IMMUNOLOGY

Production and characterization of monoclonal antibodies against L–carnitine: radioimmunologic assays for L–carnitine determination. Marini S, et al. **Clin Chim Acta** 1996 May 30;249(1–2):93–108

ISOLATION & PURIFICATION

High performance liquid chromatography of long–chain acylcarnitine and phospholipids in fatty acid turnover studies. Arduini A, et al. **J Lipid Res** 1996 Mar;37(3):684–9

METABOLISM

Relationship of carnitine transport across the epididymis to blood carnitine and androgens in rats. Radigue C, et al. **Arch Androl** 1996 Jul–Aug;37(1):27–31

Abnormal carnitine distribution in the muscles of patients with idiopathic inflammatory myopathy. Arenas J, et al. **Arthritis Rheum** 1996 Nov;39(11):1869–74

Regulation of carnitine binding to plasma membranes by an ATP–dependent mechanism. Gustafson B, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):249–53

Palmitoyl–CoA stimulates cellular uptake and plasma membrane binding of carnitine. Gustafson B, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):752–5

The mitochondrial carnitine carrier protein: cDNA cloning, primary structure and comparison with other mitochondrial transport proteins. Indiveri C, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):713–9

Chronic sodium benzoate therapy in children with inborn errors of urea synthesis: effect on carnitine metabolism and ammonia nitrogen removal. Feoli–Fonseca JC, et al. **Biochem Mol Med** 1996 Feb;57(1):31–6

Choline and L–carnitine as precursors of trimethylamine. Holmes HC, et al. **Biochem Soc Trans** 1997 Feb;25(1):96S

Effect of dehydroepiandrosterone sulfate on carnitine acetyl transferase activity and L–carnitine levels in oophorectomized rats. Chiu KM, et al. **Biochim Biophys Acta** 1997 Feb 18;1344(3):201–9

Sodium–dependent carnitine transport in human placental choriocarcinoma cells. Prasad PD, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):109–17

Could L–carnitine be an acute energy inducer in catabolic conditions? Keskin S, et al. **Dev Med Child Neurol** 1997 Mar;39(3):174–7

Comparison of in vitro carnitine and glycine conjugation with branched-side chain and cyclic side chain carboxylic acids in rats. Kanazu T, et al. **Drug Metab Dispos** 1997 Feb;25(2):149-53

cDNA cloning, recombinant expression, and site-directed mutagenesis of bovine liver carnitine octanoyltransferase--Arg505 binds the carboxylate group of carnitine. Cronin CN. **Eur J Biochem** 1997 Aug 1; 247(3):1029-37

In experimental diabetes the decrease in the eye of lens carnitine levels is an early important and selective event. Pessotto P, et al. **Exp Eye Res** 1997 Feb;64(2):195-201

Bacterial carnitine metabolism. Kleber HP. **FEMS Microbiol Lett** 1997 Feb 1;147(1):1-9 (47 ref.)

Uptake of L-carnitine by a human intestinal epithelial cell line, Caco-2. McCloud E, et al. **Gastroenterology** 1996 Dec; 111(6):1534-40

Carnitine metabolism in patients with chronic liver disease. Krähenbühl S, et al. **Hepatology** 1997 Jan;25(1):148-53

Role of free L-carnitine and acetyl-L-carnitine in post-gonadal maturation of mammalian spermatozoa. Jeulin C, et al. **Hum Reprod Update** 1996 Mar-Apr;2(2):87-102 (119 ref.)

Investigation of the influence of theophylline feeding on total, free, short-chain acyl and long-chain acyl carnitine levels in skeletal muscle and liver of rats. al-Jafari AA, et al. **In Vivo** 1996 Nov-Dec;10(6):569-74

Carnitine metabolism in human muscle fiber types during submaximal dynamic exercise. Constantin-Teodosiu D, et al. **J Appl Physiol** 1996 Mar;80(3):1061-4

beta-Hydroxybutyrate oxidation is reduced and hepatic balance of ketone bodies and free fatty acids is unaltered in carnitine-depleted, pivalate-treated rats. Bianchi PB, et al. **J Nutr** 1996 Nov;126(11):2867-72

Excretion and metabolism of propionyl-L-carnitine in the isolated perfused rat kidney. Evans AM, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1071-6

Free and esterified carnitine in continuous ambulatory peritoneal dialysis patients. Constantin-Teodosiu D, et al. **Kidney Int** 1996 Jan;49(1):158-62

The use of isoflurane anaesthesia in studies of carnitine metabolism in the laboratory rat. Davis AT. **Lab Anim** 1996 Oct;30(4):377-82

Carnitine metabolism in chronic liver disease. Krähenbühl S. **Life Sci** 1996;59(19):1579-99 (137 ref.)

On the interrelationship between hepatic carnitine, fatty acid oxidation, and triglyceride biosynthesis in nephrosis. al-Shurbaji A, et al. **Lipids** 1997 Aug;32(8):847-52

Structural, metabolic and ionic requirements for the uptake of L-carnitine by primary rat cortical cells. Virmani MA, et al. **Pharmacol Res** 1996 Jan;33(1):19-27

Carnitine and physical exercise. Heinonen OJ. **Sports Med** 1996 Aug;22(2):109-32

Study of the effects of theophylline-related changes in total, free, short- chain acyl and long-chain acyl carnitine concentrations in rat heart. Alhomida AS. **Toxicology** 1997 Sep 5;121(3):205-13

Carnitine metabolism changes during the first year after a successful kidney transplantation. Zdrojewski Z, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):224-6

[Evaluation of the effect of long term valproic acid treatment on plasma levels of carnitine, ammonia and amino acids related to the urea cycle in pediatric epileptic patients] Navarro-Quesada FJ, et al. **Rev Neurol** 1997 Jul; 25(143):1037-44 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

L-carnitine and acetyl-L-carnitine status during hemodialysis with acetate in humans: a kinetic analysis [see comments] Jackson JM, et al. **Am J Clin Nutr** 1996 Dec; 64(6):922-7. Comment in: Am J Clin Nutr 1996 Dec;64(6):976-7.

Excretion and metabolism of propionyl-L-carnitine in the isolated perfused rat kidney. Evans AM, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1071-6

[Influence of multiple-dose administration of cefetamet pivoxil on blood and urinary concentrations of carnitine and effects of simultaneous administration of carnitine with cefetamet pivoxil] Nakashima M, et al. **Jpn J Antibiot** 1996 Oct;49(10):966-79 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Enhancing effect of L-carnitine on some abnormal signs induced by pentylenetetrazol. Herink J. **Acta Medica (Hradec Kralove)** 1996;39(2):63-6

Changing perspective of carnitine function and the need for exogenous carnitine of patients treated with hemodialysis [editorial; comment] Borum PR. **Am J Clin Nutr** 1996 Dec; 64(6):976-7. Comment on: Am J Clin Nutr 1996 Dec;64(6):922-7.

Carnitine effects on coenzyme A profiles in rat liver with hypoglycin inhibition of multiple dehydrogenases. Lieu YK, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E359-66

Acylcarnitine chain length influences carnitine-enhanced drug flux through the spinal meninges in vitro. Ummenhofer WC, et al. **Anesthesiology** 1997 Mar; 86(3):642-8

Effect of carnitine on decrease of branched chain amino acids and glutamine in serum of septic rats. Hayashi N, et al. **Biol Pharm Bull** 1996 Jan;19(1):157-9

L-carnitine stimulation of mitochondrial oxidative phosphorylation rate in isolated rat skeletal muscle mitochondria. Berthon P, et al. **Comp Biochem Physiol A Physiol** 1997 May;117(1):141-5

Reaction of capillary blood cell velocity in nailfold capillaries to L-carnitine in patients with vasospastic disease. Gasser P, et al. **Drugs Exp Clin Res** 1997;23(1):39-43

Effects of L-carnitine supplementation on physical performance and energy metabolism of endurance-trained athletes: a double-blind crossover field study. Colombani P, et al. **Eur J Appl Physiol** 1996;73(5):434-9

Effects of prenatal treatment with betamethasone, L-carnitine, or betamethasone-L-carnitine combinations on the phosphatidylcholine content and composition of the foetal and maternal rat lung. Lohninger A, et al. **Eur J Clin Chem Clin Biochem** 1996 May;34(5):387-91

Protective effect of L-carnitine in ammonia-precipitated encephalopathy in the portacaval shunted rat. Therrien G, et al. **Hepatology** 1997 Mar;25(3):551-6

Potentiation of human polymorphonuclear leukocyte activation by atrial natriuretic peptide. Inhibitory effect of carnitine congeners. Biselli R, et al. **Inflammation** 1996 Feb; 20(1):33-42

Effect of L-carnitine and soybean oil on growth performance and body composition of early-weaned pigs. Owen KQ, et al. **J Anim Sci** 1996 Jul;74(7):1612-9

Effects of carnitine on preconditioned latissimus dorsi muscle at different burst frequencies. Katircioglu SF, et al. **J Card Surg** 1997 Mar-Apr;12(2):120-5

Hydrocarbon chain length-dependent antagonism of acylcarnitines to the depressant effect of lysophosphatidylcholine on cardiac sodium current. Sato T, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2183-94

Carnitine supplementation ameliorates the steatosis and ketosis induced by pivalate in rats. Bianchi PB, et al. **J Nutr** 1996 Nov;126(11):2873-9

Prenatal effects of betamethasone-L-carnitine combinations on fetal rat lung. Lohninger A, et al. **J Perinat Med** 1996; 24(6):591-9

Carnitine and choline derivatives containing a trimethylamine group prevent ammonia toxicity in mice and glutamate toxicity in primary cultures of neurons. Miñana MD, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):194-9

Effect of long-chain acyl-CoAs and acylcarnitines on gel-fluid and lamellar-hexagonal phospholipid phase transitions. Veiga MP, et al. **Mol Membr Biol** 1996 Jul-Sep; 13(3):165-72

Comparison of the effects of aminoguanidine and L-carnitine treatments on somatosensorial evoked potentials in alloxan-diabetic rats. Yildiz O, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):526-31

Suppression of pentylenetetrazol-induced seizures by carnitine in mice. Yu Z, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):545-9

L-carnitine normalizes the reduced carnitine palmitoyl transferase activity in red cells from haemodialysis patients [letter] de los Reyes B, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1300-1

L-carnitine treatment improves brain stem auditory evoked potentials in diabetic rats. Yildiz O, et al. **Neuroreport** 1996 Nov 25;7(18):2957-9

The effect of carnitine on ketogenesis in perfused livers from juvenile visceral steatosis mice with systemic carnitine deficiency. Nakajima T, et al. **Pediatr Res** 1997 Jul; 42(1):108-13

Effects of carnitine and its derivatives on gastric acid secretion in rats. Valoti M, et al. **Pharmacol Res** 1996 Nov-Dec;34(5-6):219-24

Protective actions of L-carnitine and acetyl-L-carnitine on the neurotoxicity evoked by mitochondrial uncoupling or inhibitors. Virmani MA, et al. **Pharmacol Res** 1995 Dec; 32(6):383-9

Carnitine supplementation accelerates normalization of food intake depressed during TPN. Laviano A, et al. **Physiol Behav** 1996 Jul;60(1):317-20

Influence of L-carnitine on CD95 cross-lining-induced apoptosis and ceramide generation in human cell lines: correlation with its effects on purified acidic and neutral sphingomyelinases in vitro. Di Marzio L, et al. **Proc Assoc Am Physicians** 1997 Mar;109(2):154-63

Effects of L-carnitine on the hypoxic atria from fed and fasted rats. Varela A, et al. **Rev Esp Fisiol** 1995 Dec; 51(4):201-6

Addition of L-carnitine to additive solution-suspended red cells stored at 4 degrees C reduces in vitro hemolysis and improves in vivo viability. Arduini A, et al. **Transfusion** 1997 Feb;37(2):166-74

PHYSIOLOGY

Changing perspective of carnitine function and the need for exogenous carnitine of patients treated with hemodialysis [editorial; comment] Borum PR. **Am J Clin Nutr** 1996 Dec; 64(6):976-7. Comment on: Am J Clin Nutr 1996 Dec;64(6):922-7.

[Animal experiment and clinical studies of the significance of carnitine for energy metabolism in pregnant patients and the fetus during the pre- and perinatal period] Lohninger A, et al. **Wien Klin Wochenschr** 1996;108(2):33-9 (64 ref.) (Eng. Abstr.) **(Ger)**

[Carnitine and the central nervous system--new aspects] Lerner A, et al. **Harefuah** 1997 Jan 15;132(2):130-2 (28 ref.) **(Heb)**

THERAPEUTIC USE

Carnitine for valproic acid-induced hyperammonemia [letter] Raby WN. **Am J Psychiatry** 1997 Aug;154(8):1168-9

Anthracycline-induced cardiotoxicity [letter; comment] Klein HO. **Ann Intern Med** 1997 May 15;126(10):827; discussion 827-8. Comment on: Ann Intern Med 1996 Jul 1;125(1):47-58.

Acylcarnitine removal in a patient with acyl-CoA beta-oxidation deficiency disorder: effect of L-carnitine therapy and starvation. Fontaine M, et al. **Clin Chim Acta** 1996 Aug 30;252(2):109-22

Neurovascular effects of L-carnitine treatment in diabetic rats. Cameron NE, et al. **Eur J Pharmacol** 1997 Jan 29; 319(2-3):239-44

Effects of prolonged L-carnitine administration on delayed muscle pain and CK release after eccentric effort. Giamberardino MA, et al. **Int J Sports Med** 1996 Jul; 17(5):320-4

Valproic acid overdose and L-carnitine therapy. Ishikura H, et al. **J Anal Toxicol** 1996 Jan-Feb;20(1):55-8

Long-term l-carnitine treatment prolongs the survival in rats with adriamycin-induced heart failure. Kawasaki N, et al. **J Card Fail** 1996 Dec;2(4):293-9

Response to recombinant human erythropoietin (r-Hu EPO) and L-carnitine combination in patients with anemia of end-stage renal disease [letter] Boran M, et al. **Nephron** 1996;73(2):314-5

L-carnitine does not alleviate uremic pruritus in hemodialysis patients [letter] Mettang T, et al. **Nephron** 1997;75(3):372

Diet- and valproate-induced transient hyperammonemia: effect of L-carnitine. Gidal BE, et al. **Pediatr Neurol** 1997 May;16(4):301-5

Effect of L-carnitine treatment in vivo on apoptosis and ceramide generation in peripheral blood lymphocytes from AIDS patients. Cifone MG, et al. **Proc Assoc Am Physicians** 1997 Mar;109(2):146-53

[L-carnitine in the treatment of left ventricular dysfunction in post-infarction] Rizzon P, et al. **Cardiologia** 1995 Dec; 40(12 Suppl 1):41-3 **(Ita)**

[Effect of L-carnitine on lipid peroxidation and lipid composition in blood serum in hemic hypoxia] Sidoriak NG, et al. **Ukr Biokhim Zh** 1996 Sep-Oct;68(5):54-8 (Eng. Abstr.) **(Rus)**

URINE

Reliability of carnitine concentrations measured in single postprandial urine samples from dogs. Sanderson S, et al. **Am J Vet Res** 1996 Aug;57(8):1185-8

Metabolic studies in twin brothers with 2-methylacetoacetyl-CoA thiolase deficiency. Fontaine M, et al. **Clin Chim Acta** 1996 Nov 15;255(1):67-83

CARNITINE ACETYLTRANSFERASE

BIOSYNTHESIS

Individual expression of Candida tropicalis peroxisomal and mitochondrial carnitine acetyltransferase-encoding genes and subcellular localization of the products in Saccharomyces cerevisiae. Kawachi H, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):731-5

GENETICS

Cloning and characterization of murine carnitine acetyltransferase: evidence for a requirement during cell cycle progression. Brunner S, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):403-10

ISOLATION & PURIFICATION

Purification and properties of carnitine acetyltransferase from citric acid producing Aspergillus niger. Jernejc K, et al. **Appl Biochem Biotechnol** 1996 Aug;60(2):151-8

Purification of carnitine acetyltransferase from skeletal muscle of the camel (Camelus dromedarius). Alhomida AS, et al. **Mol Cell Biochem** 1996 Dec 20;165(2):95-101

METABOLISM

Inhibition studies of the carnitine acetyltransferase from skeletal muscle of the camel (Camelus dromedarius) by sulfhydryl reagents and metal ions. Alhomida AS. **Biochem Mol Biol Int** 1996 Aug;39(5):923-31

Effect of dehydroepiandrosterone sulfate on carnitine acetyl transferase activity and L-carnitine levels in oophorectomized rats. Chiu KM, et al. **Biochim Biophys Acta** 1997 Feb 18;1344(3):201-9

Kinetic properties of purified carnitine acetyltransferase from the skeletal muscle of Arabian camel (Camelus dromedarius). Alhomida AS, et al. **Biochimie** 1996; 78(3):204-8

Changes in cell morphology and carnitine acetyltransferase activity in Candida albicans following growth on lipids and serum and after in vivo incubation in mice. Sheridan R, et al. **Microbiology** 1996 Nov;142 (Pt 11):3171-80

Time course of the effects of a high-fat diet and voluntary exercise on muscle enzyme activity in Long-Evans rats. Cheng B, et al. **Physiol Behav** 1997 May;61(5):701-5

CARNITINE ACYLTRANSFERASES

DEFICIENCY

First prenatal diagnosis of the carnitine transporter defect. Christodoulou J, et al. **Am J Med Genet** 1996 Dec 2; 66(1):21–4

Mitochondrial carnitine–acylcarnitine translocase deficiency presenting as sudden neonatal death [see comments] Chalmers RA, et al. **J Pediatr** 1997 Aug;131(2):220–5. Comment in: J Pediatr 1997 Aug;131(2):181–2.

Sudden neonatal death in carnitine transporter deficiency [see comments] Rinaldo P, et al. **J Pediatr** 1997 Aug; 131(2):304–5. Comment in: J Pediatr 1997 Aug;131(2):181–2.

DRUG EFFECTS

Effect of membrane environment on the activity and inhibitability by malonyl-CoA of the carnitine acyltransferase of hepatic microsomal membranes. Broadway NM, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):435–40

GENETICS

cDNA cloning, recombinant expression, and site-directed mutagenesis of bovine liver carnitine octanoyltransferase—Arg505 binds the carboxylate group of carnitine. Cronin CN. **Eur J Biochem** 1997 Aug 1; 247(3):1029–37

METABOLISM

Involvement of carnitine acyltransferases in peroxisomal fatty acid metabolism by the yeast Pichia guilliermondii. Pagot Y, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3864–7

Stimulation of carnitine acylcarnitine translocase activity in heart mitochondria from hyperthyroid rats. Paradies G, et al. **FEBS Lett** 1996 Nov 18;397(2–3):260–2

Role of free L-carnitine and acetyl-L-carnitine in post-gonadal maturation of mammalian spermatozoa. Jeulin C, et al. **Hum Reprod Update** 1996 Mar–Apr;2(2):87–102 (119 ref.)

Evidence of two catalytically active carnitine medium/long chain acyltransferases in rat liver peroxisomes. Singh H, et al. **J Lipid Res** 1996 Dec;37(12):2616–26

The effects of 3-hydroxy-3-methylglutaryl-CoA reductase inhibition on tissue levels of carnitine and carnitine acyltransferase activity in the rabbit. Bhuiyan J, et al. **Lipids** 1996 Aug;31(8):867–70

CARNITINE PALMITOYLTRANSFERASE

The mitochondrial carnitine palmitoyltransferase system. From concept to molecular analysis. McGarry JD, et al. **Eur J Biochem** 1997 Feb 15;244(1):1–14 (113 ref.)

ANTAGONISTS & INHIBITORS

Improvement of myocardial function and metabolism in diabetic rats by the carnitine palmitoyl transferase inhibitor Etomoxir. Schmitz FJ, et al. **Horm Metab Res** 1995 Dec; 27(12):515–22

Inhibition of carnitine palmitoyltransferase I augments sphingolipid synthesis and palmitate-induced apoptosis. Paumen MB, et al. **J Biol Chem** 1997 Feb 7;272(6):3324–9

BLOOD

L-carnitine normalizes the reduced carnitine palmitoyl transferase activity in red cells from haemodialysis patients [letter] de los Reyes B, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1300–1

CHEMISTRY

Topology of carnitine palmitoyltransferase I in the mitochondrial outer membrane. Fraser F, et al. **Biochem J** 1997 May 1;323 (Pt 3):711–8

Evidence that both the acyl-CoA- and malonyl-CoA binding sites of mitochondrial overt carnitine palmitoyltransferase (CPT I) are exposed on the cytosolic face of the outer membrane. Fraser F, et al. **Biochem Soc Trans** 1996 May;24(2):184S

DEFICIENCY

Carnitine palmitoyltransferase deficiency: an underdiagnosed condition? Katzir Z, et al. **Am J Nephrol** 1996;16(2):162–6

Trifunctional enzyme deficiency: adult presentation of a usually fatal beta-oxidation defect. Schaefer J, et al. **Ann Neurol** 1996 Oct;40(4):597–602

In vivo stable isotope studies in three patients affected with mitochondrial fatty acid oxidation disorders: limited diagnostic use of 1-13C fatty acid breath test using bolus technique. Jakobs C, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S78–82

Characterisation of carnitine palmitoyltransferases in patients with a carnitine palmitoyltransferase deficiency: implications for diagnosis and therapy. Schaefer J, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):169–76

Complementation analysis of carnitine palmitoyltransferase I and II defects. Slama A, et al. **Pediatr Res** 1996 Oct; 40(4):542–6

GENETICS

Functional characterization of mitochondrial carnitine palmitoyltransferases I and II expressed in the yeast Pichia pastoris. de Vries Y, et al. **Biochemistry** 1997 Apr 29; 36(17):5285–92

Localization and intron usage analysis of the human CPT1B gene for muscle type carnitine palmitoyltransferase I. van der Leij FR, et al. **Biochim Biophys Acta** 1997 May 30; 1352(2):123–8

A novel gene suppressed in the ventricle of carnitine-deficient juvenile visceral steatosis mice. Masuda M, et al. **FEBS Lett** 1997 May 19;408(2):221–4

Structural features of the gene encoding human muscle type carnitine palmitoyltransferase I. Yamazaki N, et al. **FEBS Lett** 1997 Jun 16;409(3):401–6

Fine chromosome mapping of the genes for human liver and muscle carnitine palmitoyltransferase I (CPT1A and CPT1B). Britton CH, et al. **Genomics** 1997 Feb 15; 40(1):209–11

Fatty acids rapidly induce the carnitine palmitoyltransferase I gene in the pancreatic beta-cell line INS-1. Assimacopoulos-Jeannet F, et al. **J Biol Chem** 1997 Jan 17;272(3):1659–64

METABOLISM

Increased carnitine palmitoyltransferase in cardiac myocytes is mediated by insulin growth factor I. Hudson EK, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H422–7

The effect of fasting/refeeding and insulin treatment on the expression of the regulatory genes of ketogenesis in intestine and liver of suckling rats. Arias G, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):287–98

Control of hepatic fatty acid oxidation by 5'-AMP-activated protein kinase involves a malonyl-CoA-dependent and a malonyl-CoA-independent mechanism. Velasco G, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):169–75

Direct interaction of the mitochondrial membrane protein carnitine palmitoyltransferase I with Bcl-2. Paumen MB, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):523–5

Carnitine palmitoyltransferase and acyl-coA binding protein: two more players in the membrane phospholipid fatty acid turnover of human red cells? [letter] Arduini A, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):811–4

The role of changes in the sensitivity of hepatic mitochondrial overt carnitine palmitoyltransferase in determining the onset of the ketosis of starvation in the rat. Drynan L, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):767–70

Flux control exerted by overt carnitine palmitoyltransferase over palmitoyl-CoA oxidation and ketogenesis is lower in suckling than in adult rats. Krauss S, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):427–33

The flux control coefficient of carnitine palmitoyltransferase I on palmitate beta-oxidation in rat hepatocyte cultures. Spurway TD, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):119–22

Involvement of Ca2+/calmodulin-dependent protein kinase II in the activation of carnitine palmitoyltransferase I by okadaic acid in rat hepatocytes. Velasco G, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):211–6

Immunodetection of rat Walker 256 tumour mitochondrial carnitine palmitoyltransferase I and II: evidence for the control of CPT II expression by insulin. Colquhoun A, et al. **Biochem Mol Biol Int** 1996 Feb;38(1):171–4

Evidence that both the acyl-CoA- and malonyl-CoA binding sites of mitochondrial overt carnitine palmitoyltransferase (CPT I) are exposed on the cytosolic face of the outer membrane. Fraser F, et al. **Biochem Soc Trans** 1996 May;24(2):184S

Carnitine palmitoyltransferase in patients with cardiac ischemia due to atherosclerotic coronary artery disease and in patients with idiopathic dilated cardiomyopathy. Maurer I, et al. **Cardiology** 1997 May-Jun;88(3):258–63

Evidence of two catalytically active carnitine medium/long chain acyltransferases in rat liver peroxisomes. Singh H, et al. **J Lipid Res** 1996 Dec;37(12):2616–26

Influence of diet on the kinetic behavior of hepatic carnitine palmitoyltransferase I toward different acyl CoA esters. Power GW, et al. **Lipids** 1997 Jan;32(1):31–7

CARNIVORA

Multiple striate keratotomy: a treatment for corneal erosions caused by epithelial basement membrane disease. Turner AG, et al. **Aust Vet J** 1997 Jan;75(1):27–30

Persistent corneal erosion in an Australian dingo. Turner AG, et al. **Aust Vet J** 1996 Dec;74(6):435–6

Rabies in the far north [letter] Banks RD, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1106

Sensitivity to exogenous gonadotropins for ovulation induction and laparoscopic artificial insemination in the cheetah and clouded leopard. Howard JG, et al. **Biol Reprod** 1997 Apr;56(4):1059–68

Badgers, bovine tuberculosis and the age of reason [editorial] Clifton-Hadley RS. **Br Vet J** 1995 May;152(3):243–6

Distemper: not a new disease in lions and tigers. Myers DL, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):180–4

The kinetics of serum antibody responses to natural infections with Mycobacterium bovis in one badger social group. Newell DG, et al. **Epidemiol Infect** 1997 Apr;118(2):173–80

Predation on Milne-Edward's sifaka (Propithecus diadema edwardsi) by the fossa (Cryptoprocta ferox) in the rain forest of southeastern Madagascar. Wright PC, et al. **Folia Primatol (Basel)** 1997;68(1):34–43

A fatal infection in a Bengal tiger resembling cytauxzoonosis in domestic cats. Jakob W, et al. **J Comp Pathol** 1996 May; 114(4):439–44

Intestinal adenocarcinoma with neuroendocrine cells in a clouded leopard (Neofelis nebulosa). Wada Y, et al. **J Comp Pathol** 1996 Oct;115(3):305–10

Disease and mortality in captive wild dogs (Lycaon pictus). van Heerden J, et al. **J S Afr Vet Assoc** 1996 Sep; 67(3):141–5

Big cats attack at the nape of the neck [letter] Loefler IJ. **J Trauma** 1997 Sep;43(3):560

Rabies among African wild dogs (Lycaon pictus) in the Masai Mara, Kenya. Kat PW, et al. **J Vet Diagn Invest** 1996 Oct; 8(4):420–6

Naturally occurring Tyzzer's disease in a serval (Felis capensis). Poonacha KB. **J Vet Diagn Invest** 1997 Jan; 9(1):82–4

Winter poisoning of coyotes and raptors with Furadan-laced carcass baits. Allen GT, et al. **J Wildl Dis** 1996 Apr; 32(2):385–9

Immunohistochemical study of pancreatic neuroendocrine tumor in Panthera tigris tigris. Nyska A, et al. **J Wildl Dis** 1996 Jul;32(3):541–4

Chlamydiosis in a fishing cat (Felis viverrina). Kik MJ, et al. **J Zoo Wildl Med** 1997 Jun;28(2):212–4

Aspects of rabies epidemiology in Tsumkwe District, Namibia. Laurenson K, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):39–45

The association between the bovine tuberculosis status of herds in the East Offaly Project Area, and the distance to badger setts, 1988–1993. Martin SW, et al. **Prev Vet Med** 1997 Jul;31(1–2):113–25

Population regulation in snowshoe hare and Canadian lynx: asymmetric food web configurations between hare and lynx. Stenseth NC, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5147–52

Infectious and parasitic diseases of captive carnivores, with special emphasis on the black-footed ferret (Mustela nigripes). Williams ES, et al. **Rev Sci Tech** 1996 Mar; 15(1):91–114 (154 ref.)

Feline lentivirus infection in nondomestic felids. Plotnick AN, et al. **Semin Vet Med Surg (Small Anim)** 1995 Nov; 10(4):251–5

Canine distemper virus infection in Serengeti spotted hyenas. Haas L, et al. **Vet Microbiol** 1996 Mar;49(1–2):147–52

TB in cattle and badgers [letter] Brain L. **Vet Rec** 1997 Apr 5;140(14):380

TB in cattle and badgers [letter] Scullion F. **Vet Rec** 1997 Apr 5;140(14):380

Hard decisions on TB [letter] Watson CL, et al. **Vet Rec** 1997 May 3;140(18):487

[Infectious pathology of Canidae and Felidae in zoological parks] Artois M, et al. **Rev Sci Tech** 1996 Mar;15(1):115–40 (50 ref.) (Eng. Abstr.) **(Fre)**

[Differential diagnosis of resorptive tooth diseases and caries] Berger M, et al. **Schweiz Arch Tierheilkd** 1996; 138(11):546–51 (Eng. Abstr.) **(Ger)**

[Liberation into the wild of wild felines—danger of the release of virus infections] Lutz H, et al. **Schweiz Arch Tierheilkd** 1996;138(12):579–85 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

Functional anatomy of the radial sesamoid bone in the giant panda (Ailuropoda melanoleuca). Endo H, et al. **J Anat** 1996 Dec;189 (Pt 3):587–92

Sexual dimorphism of perineal muscles and motoneurons in spotted hyenas. Forger NG, et al. **J Comp Neurol** 1996 Nov 11;375(2):333–43

Surface modifications of the Sima de los Huesos fossil humans. Andrews P, et al. **J Hum Evol** 1997 Aug-Sep; 33(2–3):191–217

Sima de los Huesos (Sierra de Atapuerca, Spain). The site. Arsuaga JL, et al. **J Hum Evol** 1997 Aug-Sep; 33(2–3):109–27

The carnivore remains from the Sima de los Huesos Middle Pleistocene site (Sierra de Atapuerca, Spain). García N, et al. **J Hum Evol** 1997 Aug-Sep;33(2–3):155–74

Osteometrical and CT examination of the Japanese wolf skull. Endo H, et al. **J Vet Med Sci** 1997 Jul;59(7):531–8

The monoclonal antibody H386F labels microglia in the retinal nerve fiber layer of several mammals. Tumosa N, et al. **Vis Neurosci** 1997 Jul-Aug;14(4):663–9

[Comparison of two methods of age determination in teeth of known age from wild carnivores] Thomé H, et al. **Anat Histol Embryol** 1997 Jun;26(2):81–4 (Eng. Abstr.) **(Ger)**

[Discovery of plantar glandular organs in the marbled polecat Vormela peregusna (Mustelidae, Mammalia)] Sokolov VE, et al. **Dokl Akad Nauk** 1997 Jun;354(6):846–9 **(Rus)**

[The structure of the skin of the external auditory canal and the antiviral activity of the cerumen in carnivorous mammals] Sokolov VE, et al. **Izv Akad Nauk Ser Biol** 1996 Jul–Aug;(4):430–6 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Carnivoran paleoguilds of Africa: implications for hominid food procurement strategies. Lewis ME. **J Hum Evol** 1997

Feb-Mar;32(2-3):257-88

A noninvasive method for distinguishing among canid species: amplification and enzyme restriction of DNA from dung. Paxinos E, et al. **Mol Ecol** 1997 May;6(5):483-6

Molecular phylogeny of mitochondrial cytochrome b and 12S rRNA sequences in the Felidae: ocelot and domestic cat lineages. Masuda R, et al. **Mol Phylogenet Evol** 1996 Dec;6(3):351-65

Phylogeography of brown bears (Ursus arctos) of Alaska and paraphyly within the Ursidae. Talbot SL, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):477-94

GENETICS

Chromosomal homeologies between human, harbor seal (Phoca vitulina) and the putative ancestral carnivore karyotype revealed by Zoo-FISH. Frönicke L, et al. **Chromosoma** 1997 Jul;106(2):108-13

Phylogenetic reconstruction of the Felidae using 16S rRNA and NADH-5 mitochondrial genes. Johnson WE, et al. **J Mol Evol** 1997;44 Suppl 1:S98-116

Phylogenetic analyses of complete cytochrome b genes of the order carnivora with particular emphasis on the caniformia. Ledje C, et al. **J Mol Evol** 1996 Feb; 42(2):135-44

Phylogenetic relationships within caniform carnivores based on analyses of the mitochondrial 12S rRNA gene. Ledje C, et al. **J Mol Evol** 1996 Dec;43(6):641-9

Rates of nuclear and cytoplasmic mitochondrial DNA sequence divergence in mammals. Lopez JV, et al. **Mol Biol Evol** 1997 Mar;14(3):277-86

The complete mitochondrial DNA sequence of the greater Indian rhinoceros, Rhinoceros unicornis, and the Phylogenetic relationship among Carnivora, Perissodactyla, and Artiodactyla (+ Cetacea). Xu X, et al. **Mol Biol Evol** 1996 Nov;13(9):1167-73

A noninvasive method for distinguishing among canid species: amplification and enzyme restriction of DNA from dung. Paxinos E, et al. **Mol Ecol** 1997 May;6(5):483-6

Phylogeography of brown bears (Ursus arctos) of Alaska and paraphyly within the Ursidae. Talbot SL, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):477-94

The genetical history of an isolated population of the endangered grey wolf Canis lupus: a study of nuclear and mitochondrial polymorphisms. Ellegren H, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Dec 29; 351(1348):1661-9

Man and his dog [letter] Federoff NE, et al. **Science** 1997 Oct 10;278(5336):205; discussion 206-7

The origin of dogs: running with the wolves [news; comment] Morell V. **Science** 1997 Jun 13;276(5319):1647-8. Comment on: Science 1997 Jun 13;276(5319):1687-9.

Multiple and ancient origins of the domestic dog [see comments] Vilà C, et al. **Science** 1997 Jun 13; 276(5319):1687-9. Comment in: Science 1997 Jun 13;276(5319):1647-8.

METABOLISM

Levels of aliphatic hydrocarbons in viscera of wolves (Canis lupus, L) in Galicia (N. W. Spain). Carril González-Barros ST, et al. **Bull Environ Contam Toxicol** 1997 Oct; 59(4):543-7

Occurrence of non-ortho, mono-ortho and di-ortho substituted PCB congeners in polecats, stone martens and badgers from the state of Baden-Württemberg, Germany. Behnisch P, et al. **Chemosphere** 1997 Jun;34(11):2293-300

PCBs and PCTs in wolves (Canis lupus, L) in Galicia (N.W. Spain). Carril González-Barros ST, et al. **Chemosphere** 1997 Sep;35(6):1243-7

Laboratory metabolism and evaporative water loss of the aardwolf, Proteles cristatus. Anderson MD, et al. **Physiol Zool** 1997 Jul-Aug;70(4):464-9

MICROBIOLOGY

Demonstration of Helicobacter pylori-like organisms in the gastric mucosa of captive exotic carnivores. Jakob W, et al. **J Comp Pathol** 1997 Jan;116(1):21-33

Fecal shedding of Salmonella in exotic felids. Clyde VL, et al. **J Zoo Wildl Med** 1997 Jun;28(2):148-52

PARASITOLOGY

Presence of Echinococcus oligarthrus (Diesing, 1863) Lühe, 1910 in Lynx rufus texensis Allen, 1895 from San Fernando, Tamaulipas state, in north-east Mexico. Salinas-López N, et al. **Int J Parasitol** 1996 Jul;26(7):793-6

A complementary DNA encoding an antigen from Trichinella spiralis muscle larvae and its analog from Trichinella T5 of bobcat origin: sequence, cloning and expressions. Yao C, et al. **Int J Parasitol** 1997 Apr; 27(4):425-30

Trichinella britovi from Japan. Pozio E, et al. **J Parasitol** 1996 Oct;82(5):847-9

The European badger (Carnivora:Mustelidae) as intermediate host of further three Sarcocystis species (Sporozoa). Odening K, et al. **Parasite** 1994 Mar;1(1):23-30

Fatal cytauxzoonosis in a captive-reared white tiger (Panthera tigris). Garner MM, et al. **Vet Pathol** 1996 Jan; 33(1):82-6

On Physaloptera sibirica Petrow et Gorbunow, 1931 (Nematoda: Physalopteridae) parasitizing Iberian mammals. Miquel J, et al. **Wiad Parazytol** 1996;42(4):435-42

[Detection of intestinal parasites from main-land raccoon dogs, Nyctereutes procyonoides viverrinus, in southeastern Kanagawa Prefecture] Asano R, et al. **Kansenshogaku Zasshi** 1997 Jul;71(7):664-7 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Pattern and source of secretion of relaxin in the reproductive cycle of the spotted hyena (Crocuta crocuta). Steinetz BG, et al. **Biol Reprod** 1997 May;56(5):1301-6

The fixative lipid of tiger pheromone. Poddar-Sarkar M. **J Lipid Mediat Cell Signal** 1996 Dec;15(1):89-101

Effects of melatonin implants on winter fur growth and testicular recrudescence in adult male raccoon dogs (Nyctereutes procyonoides). Xiao Y, et al. **J Pineal Res** 1996 Apr;20(3):148-56

Rank and reproduction in the female spotted hyaena. Holekamp KE, et al. **J Reprod Fertil** 1996 Nov; 108(2):229-37

Two new oral chemical biomarkers for coyotes. Kimball BA, et al. **J Wildl Dis** 1996 Jul;32(3):505-11

Seasonal effects on ovarian responsiveness to exogenous gonadotrophins and successful artificial insemination in the snow leopard (Uncia uncia). Roth TL, et al. **Reprod Fertil Dev** 1997;9(3):285-95

[Sex steroid profiles and ovarian activities of the female panda Yan Yan in the Berlin Zoo] Meyer HH, et al. **Berl Munch Tierarztl Wochenschr** 1997 Apr;110(4):143-7 (Eng. Abstr.) **(Ger)**

[The recognition by European lynxes (Lynx lynx, Felidae, Carnivora) through urinary odor signals of the species, sex and age of conspecific, familiar and unfamiliar individuals] Sokolov VE, et al. **Izv Akad Nauk Ser Biol** 1996 Sep-Oct; (5):571-7 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

The emergence of affiliative behavior in infant spotted hyenas (Crocuta crocuta). Drea CM, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:498-500

Social facilitation, affiliation, and dominance in the social life of spotted hyenas. Glickman SE, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:175-84

CARNOSINE

ANALOGS & DERIVATIVES

Zinc enhancement of 17beta-estradiol's anabolic effect in osteoblastic MC3T3-E1 cells. Yamaguchi M, et al. **Calcif Tissue Int** 1997 Jun;60(6):527-32

N alpha-acetylcarnosine is a prodrug of L-carnosine in ophthalmic application as antioxidant [published erratum appears in Clin Chim Acta 1997 Mar 18;259(1-2):199-201] Babizhayev MA, et al. **Clin Chim Acta** 1996 Oct 15; 254(1):1-21

Hemodynamic effects of carcinine in the anesthetized, instrumented, open-chest rat. Steinberg C, et al. **Crit Care Med** 1996 Dec;24(12):2042-5

Changes in tissue contents of zinc, copper and iron in rats and beagle dogs treated with polaprezinc. Yamaguchi I, et al. **J Toxicol Sci** 1996 Aug;21(3):177-87

Zinc compounds inhibit osteoclast-like cell formation at the earlier stage of rat marrow culture but not osteoclast function. Yamaguchi M, et al. **Mol Cell Biochem** 1996 May 24;158(2):171-7

[Relation between the conformation and antioxidant properties in a series of topochemical analogs of carnosine and carcinine with different N-acyl substitutes] Rozhkova EA, et al. **Bioorg Khim** 1996 Oct-Nov;22(10-11):838-45 (Eng. Abstr.) **(Rus)**

[Relationship between the nature of N-acyl substituent, molecular conformation and antioxidative properties of carnosine, carcinine, and their structural analogs] Evstigneeva RP, et al. **Dokl Akad Nauk** 1996 Aug; 349(5):694-7 **(Rus)**

BIOSYNTHESIS

Biosynthesis of carnosine in primary cultures of rat olfactory bulb. Bakardjiev A. **Neurosci Lett** 1997 May 16; 227(2):115-8

BLOOD

High-performance liquid chromatographic determination of N-alpha-acetyl-L-carnosine in equine plasma. Dunnett M. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):150-4

CHEMISTRY

Quenching of singlet molecular oxygen by carnosine and related antioxidants. Monitoring 1270-nm phosphorescence in aqueous media. Egorov SYu, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):687-94

Interaction of the vanadyl (IV) cation with carnosine and related ligands. Ferrer EG, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):79-87

[Relation between the conformation and antioxidant properties in a series of topochemical analogs of carnosine and carcinine with different N-acyl substitutes] Rozhkova EA, et al. **Bioorg Khim** 1996 Oct-Nov;22(10-11):838-45 (Eng. Abstr.) **(Rus)**

METABOLISM

Co-localization of carnosine and glutamate in photoreceptors and bipolar cells of the frog retina. Panzanelli P, et al. **Brain Res** 1997 May 30;758(1-2):143-52

Carnosine-synthesis in cultures of rat glial cells is restricted to oligodendrocytes and carnosine uptake to astrocytes. Hoffmann AM, et al. **Neurosci Lett** 1996 Aug 30; 215(1):29-32

PHARMACOKINETICS

N alpha-acetylcarnosine is a prodrug of L-carnosine in ophthalmic application as antioxidant [published erratum appears in Clin Chim Acta 1997 Mar 18;259(1-2):199-201] Babizhayev MA, et al. **Clin Chim Acta** 1996 Oct 15; 254(1):1-21

PHARMACOLOGY

Carnosine is a novel peptide modulator of intracellular calcium and contractility in cardiac cells. Zaloga GP, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H462-8

Histidine-containing dipeptides as endogenous regulators of the activity of sarcoplasmic reticulum Ca-release channels. Batrukova MA, et al. **Biochim Biophys Acta** 1997 Feb 21; 1324(1):142-50

Influence of advanced glycation end-products and AGE-inhibitors on nucleation-dependent polymerization of beta-amyloid peptide. Münch G, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):17-29

The dipeptide carnosine constricts rabbit saphenous vein as a zinc complex apparently via a serotonergic receptor. O'Dowd A, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):535-43

[Effect of carnosine on cerebral blood flow and amplitude of EEG theta-rhythm in cerebral ischemia in rats with varied motor activities] Kukleĭ ML, et al. **Dokl Akad Nauk** 1997 Jan;352(3):416-9 **(Rus)**

PHYSIOLOGY

Head-portion exposure to low-level X-rays reduces isolation-induced aggression of mouse, and involvement of the olfactory carnosine in modulation of the radiation effects. Miyachi Y, et al. **Behav Brain Res** 1996 Nov; 81(1-2):135-40

Biochemical and physiological evidence that carnosine is an endogenous neuroprotector against free radicals. Boldyrev AA, et al. **Cell Mol Neurobiol** 1997 Apr;17(2):259-71

THERAPEUTIC USE

[Protective effect of carnosine in hyperthermia] Deev LI, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):50-2 **(Rus)**

CAROLI'S DISEASE

[Intrahepatic dilation of the bile ducts. Particularity of a clinical case] Carrabetta S, et al. **Ann Ital Chir** 1996 Jul-Aug;67(4):557-61; discussion 561-3 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Choledochal cyst: an atypical presentation of Caroli's disease. Kiguli-Malwadde E, et al. **Cent Afr J Med** 1996 Nov; 42(11):329-30

Caroli's disease and autosomal dominant polycystic kidney disease: a rare association? Mousson C, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1481-3

Caroli's disease and cystic kidney disease in a woman [letter] Bonet J, et al. **Nephron** 1996;73(2):310-1

[A case of degenerated diffuse biliary papillomatosis associated with cystic dilatation of the intrahepatic biliary ducts. Value of radiotherapy and review of the literature] Pillet G, et al. **Bull Cancer** 1996 Nov;83(11):957-63 (83 ref.) (Eng. Abstr.) **(Fre)**

[Caroli's disease, congenital hepatic fibrosis and renal polycystosis: a little frequent association] Rodríguez Rodríguez E, et al. **Rev Esp Enferm Dig** 1996 Dec; 88(12):873-6 (Eng. Abstr.) **(Spa)**

[Clinical images in gastroenterology. Caroli's disease and congenital liver fibrosis] Rodríguez Hernández H, et al. **Rev Gastroenterol Mex** 1997 Jan-Mar;62(1):57 **(Spa)**

DIAGNOSIS

A 32-year-old man with recurrent cholangitis. Sandle GI, et al. **Lancet** 1997 Aug 9;350(9075):408

[Caroli syndrome: diagnostic possibilities of magnetic resonance tomography and MR cholangiopancreaticography] Fölsing C, et al. **Rontgenpraxis** 1996 Sep;49(9):226-8 **(Ger)**

[Radiologic general practice case. Cystic enlarged intrahepatic bile ducts, congenital liver fibrosis and sponge kidney: Caroli syndrome] Wiesner W, et al. **Schweiz Rundsch Med Prax** 1997 Jun 11;86(24):1035-7 **(Ger)**

[Acute pancreatitis in Caroli's syndrome] García Valriberas R, et al. **Rev Esp Enferm Dig** 1997 Feb;89(2):133-6 (16 ref.) (Eng. Abstr.) **(Spa)**

GENETICS

Autosomal dominant polycystic kidney disease with anticipation and Caroli's disease associated with a PKD1

CAROLI'S DISEASE

mutation. Rapid communication. Torra R, et al. **Kidney Int** 1997 Jul;52(1):33–8

PATHOLOGY

Spontaneous rupture of a bile duct and its endoscopic management in a patient with Caroli's syndrome. Chalasani N, et al. **Am J Gastroenterol** 1997 Jun;92(6):1062–3

RADIOGRAPHY

Computed tomography infusion choledochography in the management of Caroli's syndrome. Treacy PJ, et al. **Aust N Z J Surg** 1997 Apr;67(4):221–2

RADIONUCLIDE IMAGING

Caroli's disease: functional diagnosis using 99mTc diethyl–iminodiacetic acid (IDA) hepatobiliary scintigraphy. Lai FM, et al. **Singapore Med J** 1997 Apr; 38(4):164–5

SURGERY

Liver transplantation in patients with Caroli's disease and recurrent cholangitis. Sans M, et al. **Transpl Int** 1997; 10(3):241–4

ULTRASONOGRAPHY

A case of congenital intrahepatic biliary dilation (Caroli's disease) [letter] Lucas GN, et al. **Ceylon Med J** 1997 Mar; 42(1):45

[Echographic aspects of Caroli disease] Ruffa G, et al. **Minerva Pediatr** 1996 Jul–Aug;48(7–8):337–40 (Eng. Abstr.) **(Ita)**

CAROTENE

International symposium on the role of lycopene and tomato products in disease prevention. Hoffmann I, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):643–5

ADMINISTRATION & DOSAGE

Modulated mitogenic proliferative responsiveness of lymphocytes in whole–blood cultures after a low–carotene diet and mixed–carotenoid supplementation in women. Kramer TR, et al. **Am J Clin Nutr** 1997 Mar;65(3):871–5

beta–Carotene and the carotenoids: beyond the intervention trials. Erdman JW Jr, et al. **Nutr Rev** 1996 Jun;54(6):185–8 (31 ref.)

ANALOGS & DERIVATIVES

Proton–donative antioxidant activity of fucoxanthin with 1,1–diphenyl–2–picrylhydrazyl (DPPH). Nomura T, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):361–70

Isocratic non–aqueous reversed–phase high–performance liquid chromatographic separation of capsanthin and capsorubin in red peppers (Capsicum annuum L.), paprika and oleoresin. Weissenberg M, et al. **J Chromatogr A** 1997 Jan 3;757(1–2):89–95

Accumulation and clearance of capsanthin in blood plasma after the ingestion of paprika juice in men. Oshima S, et al. **J Nutr** 1997 Aug;127(8):1475–9

ANALYSIS

Anomalous behaviour of lycopene by HPLC on cyano–amino polar phase. Piretti MV, et al. **Biomed Chromatogr** 1996 Jan–Feb;10(1):43–5

BLOOD

Aging, gastric acid secretion, and carotene status [editorial] Solomons NW. **Am J Clin Nutr** 1996 Oct;64(4):648–9

Plasma carotenoids in German children and adolescents. Lenhartz H, et al. **Eur J Pediatr** 1997 Jan;156(1):71–3

[Study of bioavailability of different forms of synthetic beta–carotene in volunteers] Spirichev VB, et al. **Vopr Pitan** 1996;(6):22–6 (Eng. Abstr.) **(Rus)**

[Carotinosis—a rare cause of skin yellowing (letter)] Caržavec D, et al. **Lijec Vjesn** 1996 Jul–Aug;118(7–8):184 **(Scr)**

CHEMISTRY

Free radical transients in photobleaching of xanthophylls and carotenes. Mortensen A, et al. **Free Radic Res** 1997 Jun; 26(6):549–63

METABOLISM

The potential role of lycopene for human health. Gerster H. **J Am Coll Nutr** 1997 Apr;16(2):109–26 (117 ref.)

The conversion of carotene to vitamin A (Thomas Moore, 1930). Olson JA. **J Nutr** 1997 May;127(5 Suppl):1036S–1038S

PHARMACOKINETICS

Lycopene is more bioavailable from tomato paste than from fresh tomatoes. Gärtner C, et al. **Am J Clin Nutr** 1997 Jul; 66(1):116–22

Ingestion by men of a combined dose of beta–carotene and lycopene does not affect the absorption of beta–carotene but improves that of lycopene. Johnson EJ, et al. **J Nutr** 1997 Sep;127(9):1833–7

Brush border membrane vesicles from rats and gerbils can be utilized to evaluate the intestinal uptake of all–trans and 9–cis beta–carotene. Moore AC, et al. **J Nutr** 1996 Nov; 126(11):2904–12

[Study of bioavailability of different forms of synthetic beta–carotene in volunteers] Spirichev VB, et al. **Vopr Pitan** 1996;(6):22–6 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effects of lycopene, a carotenoid, on intrathymic T cell differentiation and peripheral CD4/CD8 ratio in a high mammary tumor strain of SHN retired mice. Kobayashi T, et al. **Anticancer Drugs** 1996 Feb;7(2):195–8

Hypocholesterolemic effect of lycopene and beta–carotene is related to suppression of cholesterol synthesis and augmentation of LDL receptor activity in macrophages. Fuhrman B, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):658–62

Comparison of effects of beta–carotene and lycopene supplementation on the expression of functionally associated molecules on human monocytes. Hughes DA, et al. **Biochem Soc Trans** 1997 May;25(2):206S

Chemopreventive efficacy of piroxicam administered alone or in combination with lycopene and beta–carotene on the development of rat urinary bladder carcinoma after N–butyl–N–(4–hydroxybutyl)nitrosamine treatment. Okajima E, et al. **Jpn J Cancer Res** 1997 Jun;88(6):543–52

[Anticlastogenic activity of apo–carotene in vivo] Durnev AD, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):68–70 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Lycopene: a biologically important carotenoid for humans? Stahl W, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):1–9 (80 ref.)

Lack of protection by carotenes against gamma–radiation damage in Phycomyces. Martín–Rojas V, et al. **Radiat Environ Biophys** 1996 Aug;35(3):193–7

THERAPEUTIC USE

Effects of lycopene–enriched tomato oleoresin on 7,12–dimethyl–benz[a]anthracene–induced rat mammary tumors. Sharoni Y, et al. **Cancer Detect Prev** 1997; 21(2):118–23

Update on dietary antioxidants and cancer. Gaziano JM, et al. **Pathol Biol (Paris)** 1996 Jan;44(1):42–5 (15 ref.)

TOXICITY

Mutagenicity studies with palm fruit carotene. Masuda M, et al. **J Toxicol Sci** 1995 Nov;20(5):619–27

CAROTENOIDS

New carotenoid values for foods improve relationship of food frequency questionnaire intake estimates to plasma values. Ritenbaugh C, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):907–12

Why do we expect carotenoids to be antioxidants in vivo? Rice–Evans CA, et al. **Free Radic Res** 1997 Apr; 26(4):381–98 (92 ref.)

ADMINISTRATION & DOSAGE

The macular pigment: a possible role in protection from age–related macular degeneration. Landrum JT, et al. **Adv Pharmacol** 1997;38:537–56

Modulated mitogenic proliferative responsiveness of lymphocytes in whole–blood cultures after a low–carotene diet and mixed–carotenoid supplementation in women. Kramer TR, et al. **Am J Clin Nutr** 1997 Mar;65(3):871–5

The impact of lifestyle characteristics on carotenoid intake in the United States: the 1987 National Health Interview Survey. Nebeling LC, et al. **Am J Public Health** 1997 Feb; 87(2):268–71

Dietary intake of specific carotenoids and vitamins A, C, and E, and prevalence of colorectal adenomas. Enger SM, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar; 5(3):147–53

Dietary carotenoids and their role in combating vitamin A deficiency: a review of the literature. de Pee S, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S38–53 (99 ref.)

Specific and total carotenoid intakes among oral contraceptive and estrogen hormone users in the United States. Nebeling LC, et al. **J Am Coll Nutr** 1996 Dec; 15(6):608–13

Changes in carotenoid intake in the United States: the 1987 and 1992 National Health Interview Surveys. Nebeling LC, et al. **J Am Diet Assoc** 1997 Sep;97(9):991–6

Influence of using different sources of carotenoid data in epidemiologic studies. VandenLangenberg GM, et al. **J Am Diet Assoc** 1996 Dec;96(12):1271–5

Effects of carotenoid–rich food extracts on the development of preneoplastic lesions in rat liver and on in vivo and in vitro antioxidant status. He Y, et al. **Nutr Cancer** 1997; 27(3):238–44

ANALYSIS

Vitamin E and carotenoids in gastric biopsies: the relation to plasma concentrations in patients with and without Helicobacter pylori gastritis. Sanderson MJ, et al. **Am J Clin Nutr** 1997 Jan;65(1):101–6

Identification, quantification, and relative concentrations of carotenoids and their metabolites in human milk and serum. Khachik F, et al. **Anal Chem** 1997 May 15;69(10):1873–81

Carotenoid composition and vitamin A value of Brazilian loquat (Eriobotrya japonica Lindl.). Godoy HT, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):336–9

Tissue–specific development of antioxidant systems during avian embryogenesis. Speake BK, et al. **Biochem Soc Trans** 1996 May;24(2):182S

Carotenoid analysis of several dark–green leafy vegetables associated with a lower risk of cancers. Yang Y, et al. **Biomed Environ Sci** 1996 Dec;9(4):386–92

The carotenoid pigments of a marine Bacillus firmus strain. Pane L, et al. **Boll Soc Ital Biol Sper** 1996 Nov–Dec; 72(11–12):303–8

Intracellular carotenoid levels measured by Raman microspectroscopy: comparison of lymphocytes from lung cancer patients and healthy individuals. Bakker Schut TC, et al. **Int J Cancer** 1997 Feb 20;74(1):20–5

Quantitation of vitamin E and a carotenoid pigment in cataractous human lenses, and the effect of a dietary supplement. Bates CJ, et al. **Int J Vitam Nutr Res** 1996; 66(4):316–21

Determination of carotenoids in vegetable foods and plasma. Riso P, et al. **Int J Vitam Nutr Res** 1997;67(1):47–54

Lack of correlation between the alpha–tocopherol content of plasma and LDL, but high correlations for gamma–tocopherol and carotenoids. Ziouzenkova O, et al. **J Lipid Res** 1996 Sep;37(9):1936–46

Carotenoids and their fatty–acid esters in banana peel. Subagio A, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Dec; 42(6):553–66

Enzymatic treatment to enhance carotenoid content in dehydrated marigold flower meal. Delgado–Vargas F, et al. **Plant Foods Hum Nutr** 1997;50(2):163–9

Time course evaluation of carotenoid and retinol concentrations in posthatch chick tissue. Haq AU, et al. **Poult Sci** 1996 Oct;75(10):1258–60

BIOSYNTHESIS

Photosensitization of the yeast Phaffia rhodozyma at a low temperature for screening carotenoid hyperproducing mutants. An GH. **Appl Biochem Biotechnol** 1997 Jun; 66(3):263–8

Expression of an exogenous isopentenyl diphosphate isomerase gene enhances isoprenoid biosynthesis in Escherichia coli. Kajiwara S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):421–6

Chloroplast import of four carotenoid biosynthetic enzymes in vitro reveals differential fates prior to membrane binding and oligomeric assembly. Bonk M, et al. **Eur J Biochem** 1997 Aug 1;247(3):942–50

The carotenoid 7,8–dihydro–psi end group can be cyclized by the lycopene cyclases from the bacterium Erwinia uredovora and the higher plant Capsicum annuum. Takaichi S, et al. **Eur J Biochem** 1996 Oct 1;241(1):291–6

Biosynthesis of ketocarotenoids in transgenic cyanobacteria expressing the algal gene for beta–C–4–oxygenase, crtO. Harker M, et al. **FEBS Lett** 1997 Mar 10;404(2–3):129–34

Anaerobic carotenoid biosynthesis in Rhodobacter sphaeroides 2.4.1: H2O is a source of oxygen for the 1–methoxy group of spheroidene but not for the 2–oxo group of spheroidenone. Yeliseev AA, et al. **FEBS Lett** 1997 Feb 10;403(1):10–4

Developmental and photoregulation of three Neurospora crassa carotenogenic genes during conidiation induced by desiccation. Li C, et al. **Fungal Genet Biol** 1996 Feb; 21(1):101–8

Cloning, sequencing and expressing the carotenoid biosynthesis genes, lycopene cyclase and phytoene desaturase, from the aerobic photosynthetic bacterium Erythrobacter longus sp. strain Och101 in Escherichia coli. Matsumura H, et al. **Gene** 1997 Apr 21;189(2):169–74

Evidence for the role of redox carriers in photosynthesis gene expression and carotenoid biosynthesis in Rhodobacter sphaeroides 2.4.1. O'Gara JP, et al. **J Bacteriol** 1997 Mar; 179(6):1951–61

A crtB homolog essential for photochromogenicity in Mycobacterium marinum: isolation, characterization, and gene disruption via homologous recombination. Ramakrishnan L, et al. **J Bacteriol** 1997 Sep;179(18):5862–8

A new type of asymmetrically acting beta–carotene ketolase is required for the synthesis of echinenone in the cyanobacterium Synechocystis sp. PCC 6803. Fernández–González B, et al. **J Biol Chem** 1997 Apr 11; 272(15):9728–33

DNA binding characteristics of CrtJ. A redox–responding repressor of bacteriochlorophyll, carotenoid, and light harvesting–II gene expression in Rhodobacter capsulatus. Ponnampalam SN, et al. **J Biol Chem** 1997 Jul 18; 272(29):18391–6

Activation and analysis of cryptic crt genes for carotenoid biosynthesis from Streptomyces griseus. Schumann G, et al. **Mol Gen Genet** 1996 Oct 28;252(6):658–66

Light–induced carotenogenesis in Myxococcus xanthus: light–dependent membrane sequestration of ECF sigma factor CarQ by anti–sigma factor CarR. Gorham HC, et al. **Mol Microbiol** 1996 Jan;19(1):171–86

Functional analysis of the beta and epsilon lycopene cyclase enzymes of Arabidopsis reveals a mechanism for control of cyclic carotenoid formation. Cunningham FX Jr, et al. **Plant Cell** 1996 Sep;8(9):1613–26

Genetic dissection of carotenoid synthesis in arabidopsis defines plastoquinone as an essential component of phytoene desaturation. Norris SR, et al. **Plant Cell** 1995 Dec;7(12):2139–49

Transgenic rice (Oryza sativa) endosperm expressing daffodil (Narcissus pseudonarcissus) phytoene synthase accumulates phytoene, a key intermediate of provitamin A biosynthesis. Burkhardt PK, et al. **Plant J** 1997 May;11(5):1071–8

[Bio–chemoprevention of cancer] Nishino H. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1047–52 (2 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Effects of supplemental beta–carotene, cigarette smoking, and alcohol consumption on serum carotenoids in the Alpha–Tocopherol, Beta–Carotene Cancer Prevention Study. Albanes D, et al. **Am J Clin Nutr** 1997 Aug; 66(2):366–72

Serum carotenoid concentrations and their reproducibility in children in Belize. Apgar J, et al. **Am J Clin Nutr** 1996 Nov;64(5):726–30

The fluctuation of plasma carotenoid concentrations by phase of the menstrual cycle: a controlled diet study [see comments] Forman MR, et al. **Am J Clin Nutr** 1996 Oct; 64(4):559–65. Comment in: Am J Clin Nutr 1996 Oct;64(4):640.

Plasma carotenoids and the menstrual cycle [editorial; comment] Heber D. **Am J Clin Nutr** 1996 Oct;64(4):640. Comment on: Am J Clin Nutr 1996 Oct;64(4):559–65.

Effects of 4 y of oral supplementation with beta–carotene on serum concentrations of retinol, tocopherol, and five carotenoids. Nierenberg DW, et al. **Am J Clin Nutr** 1997 Aug;66(2):315–9

Racial group differences in plasma concentrations of antioxidant vitamins and carotenoids in hemodialysis patients. Rock CL, et al. **Am J Clin Nutr** 1997 Mar; 65(3):844–50

Human plasma carotenoid response to the ingestion of controlled diets high in fruits and vegetables. Yeum KJ, et al. **Am J Clin Nutr** 1996 Oct;64(4):594–602

Plasma carotenoids and the prevalence of adenomatous polyps of the distal colon and rectum. Shikany JM, et al. **Am J Epidemiol** 1997 Mar 15;145(6):552–7

Identification, quantification, and relative concentrations of carotenoids and their metabolites in human milk and serum. Khachik F, et al. **Anal Chem** 1997 May 15;69(10):1873–81

Plasma LDL and HDL subspecies are heterogenous in particle content of tocopherols and oxygenated and hydrocarbon carotenoids. Relevance to oxidative resistance and atherogenesis. Goulinet S, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):786–96

Carotenoid profiles of human plasma lipoproteins. Lowe GM, et al. **Biochem Soc Trans** 1996 May;24(2):171S

Responsiveness of carotenoids to a high vegetable diet intervention designed to prevent breast cancer recurrence. Rock CL, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):617–23

Reference values for retinol, tocopherol, and main carotenoids in serum of control and insulin–dependent diabetic Spanish subjects. Olmedilla B, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):1066–71

Reference values for plasma concentrations of vitamin E and A and carotenoids in a Swiss population from infancy to adulthood, adjusted for seasonal influences. Winklhofer–Roob BM, et al. **Clin Chem** 1997 Jan; 43(1):146–53

Cancer prevention: role of vitamins and carotenoids. Moser U, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:95–100

Validation of dietary assessment methods in the UK arm of EPIC using weighed records, and 24–hour urinary nitrogen and potassium and serum vitamin C and carotenoids as biomarkers. Bingham SA, et al. **Int J Epidemiol** 1997;26 Suppl 1:S137–51

Relationship of alcohol use, physical activity and dietary habits with serum carotenoids, retinol and alpha–tocopherol among male Japanese smokers. Kitamura Y, et al. **Int J Epidemiol** 1997 Apr;26(2):307–14

Nutrient density estimates from an average of food frequency and food records correlate well with serum concentration of vitamins E and the carotenoids in free–living adults. Dixon ZR, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):477–84

Plasma concentrations of carotenoids and tocopherols in male long–term tobacco chewers, smokers and nonusers. Driskell JA, et al. **Int J Vitam Nutr Res** 1996;66(3):203–9

Do hydroxy–carotenoids prevent coronary heart disease? A comparison between Belfast and Toulouse. Howard AN, et al. **Int J Vitam Nutr Res** 1996;66(2):113–8

Determination of carotenoids in vegetable foods and plasma. Riso P, et al. **Int J Vitam Nutr Res** 1997;67(1):47–54

Liquid chromatographic determination of carotenoids in human serum using an engineered C30 and a C18 stationary phase. Sharpless KE, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):187–95

Simultaneous measurement of seven carotenoids, retinol and alpha–tocopherol in serum by high–performance liquid chromatography. Steghens JP, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):71–81

Simultaneous detection of carotenoids and vitamin E in human plasma. Sommerburg O, et al. **J Chromatogr B Biomed Sci Appl** 1997 Aug 1;695(2):209–15

Serum carotenoids and uric acid levels in relation to cancer. Burgaz S, et al. **J Clin Pharm Ther** 1996 Oct;21(5):331–6

Relationship between serum carotenoid levels and cancer death rates in the residents, living in a rural area of Hokkaido, Japan. Ito Y, et al. **J Epidemiol** 1997 Mar; 7(1):1–8

Olestra affects serum concentrations of alpha–tocopherol and carotenoids but not vitamin D or vitamin K status in free–living subjects. Koonsvitsky BP, et al. **J Nutr** 1997 Aug;127(8 Suppl):1636S–1645S

Evidence of a role for fat–free body mass in modulation of plasma carotenoid concentrations in older men: studies with hydrodensitometry. Zhu YI, et al. **J Nutr** 1997 Feb; 127(2):321–6

A rapid method for separation of plasma low and high density lipoproteins for tocopherol and carotenoid analyses. Vogel S, et al. **Lipids** 1996 Apr;31(4):421–6

Carotenoids, vitamin A, and estrogen receptor status in breast cancer. Rock CL, et al. **Nutr Cancer** 1996;25(3):281–96

Acute phase response and plasma carotenoid concentrations in older women: findings from the nun study. Boosalis MG, et al. **Nutrition** 1996 Jul–Aug;12(7–8):475–8

Association of lowered plasma carotenoids with protection against cecal coccidiosis by diets high in n–3 fatty acids. Allen PC, et al. **Poult Sci** 1996 Aug;75(8):966–72

Abnormal antioxidant vitamin and carotenoid status in chronic renal failure. Ha TK, et al. **QJM** 1996 Oct; 89(10):765–9

[The effect of vitamin– and beta–carotene–enriched products on the vitamin A allowance and the concentration of different carotenoids of the blood serum in victims of the accident at the Chernobyl Atomic Electric Power Station] Iakushina LM, et al. **Vopr Pitan** 1996;(1):12–5 (Eng. Abstr.) **(Rus)**

[Carotenoids in the blood serum of the population of Noril'sk] Taranova AG, et al. **Vopr Pitan** 1996;(3):25–30 (Eng. Abstr.) **(Rus)**

CHEMISTRY

In vivo characteristics and localisation of carotenoid pigments in psychrotrophic and mesophilic Micrococcus roseus using photoacoustic spectroscopy. Jagannadham MV, et al. **Biochem Biophys Res Commun** 1996 Oct 3; 227(1):221–6

Femtosecond transient absorption study of carotenoid to chlorophyll energy transfer in the light–harvesting complex II of photosystem II. Connelly JP, et al. **Biochemistry** 1997 Jan 14;36(2):281–7

The lifetimes and energies of the first excited singlet states of diadinoxanthin and diatoxanthin: the role of these molecules in excess energy dissipation in algae. Frank HA, et al. **Biochim Biophys Acta** 1996 Dec 18;1277(3):243–52

Voltage–dependent absorbance change of carotenoids in halophilic archaebacteria. Seki SI, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):79–85

Two distinct forms of the peridinin–chlorophyll a–protein from Amphidinium carterae. Sharples FP, et al. **Biochim Biophys Acta** 1996 Sep 12;1276(2):117–23

Oxidation of carotenoids by free radicals: relationship between structure and reactivity. Woodall AA, et al. **Biochim Biophys Acta** 1997 Jul 19;1336(1):33–42

Antioxidant reactions of beta–carotene: identification of carotenoid–radical adducts. Liebler DC, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):8–11

Structural determinations and spectroscopic studies of carotenoids reveal the factors important in controlling their function in biological systems. Frank HA. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S13–6 (12 ref.)

Kinetics of reduction of hypervalent iron in myoglobin by crocin in aqueous solution. Jørgensen LV, et al. **Free Radic Res** 1997 Jul;27(1):73–87

Kinetics of photobleaching of beta–carotene in chloroform and formation of transient carotenoid species absorbing in the near infrared. Mortensen A, et al. **Free Radic Res** 1996 Oct;25(4):355–68

Carotenoids in biological emulsions: solubility, surface–to–core distribution, and release from lipid droplets. Borel P, et al. **J Lipid Res** 1996 Feb;37(2):250–61

Triplet energy transfer between the primary donor and carotenoids in Rhodobacter sphaeroides R–26.1 reaction centers incorporated with spheroidene analogs having different extents of pi–electron conjugation. Farhoosh R, et al. **Photochem Photobiol** 1997 Jul;66(1):97–104

Large molecular third–order optical nonlinearities in polarized carotenoids [see comments] Marder SR, et al. **Science** 1997 May 23;276(5316):1233–6. Comment in: Science 1997 May 23;276(5316):1195–6.

Nonlinear molecules trip the light [news; comment] Service RF. **Science** 1997 May 23;276(5316):1195–6. Comment on: Science 1997 May 23;276(5316):1233–6.

Resonance Raman spectroscopy of 2H–labelled spheroidenes in petroleum ether and in the Rhodobacter sphaeroides reaction centre. Kok P, et al. **Spectrochim Acta A Mol Biomol Spectrosc** 1997 Mar; 53A(3):381–92

DEFICIENCY

Light induces accumulation of isocitrate lyase mRNA in a carotenoid–deficient mutant of Chlamydomonas reinhardtii. Petridou S, et al. **Plant Mol Biol** 1997 Feb; 33(3):381–92

GENETICS

Photooxidative stress stimulates illegitimate recombination and mutability in carotenoid–less mutants of Rubrivivax gelatinosus. Ouchane S, et al. **EMBO J** 1997 Aug 1; 16(15):4777–87

Isolation and characterization of the carotenoid biosynthesis genes of Flavobacterium sp. strain R1534. Pasamontes L, et al. **Gene** 1997 Jan 31;185(1):35–41

Arabidopsis carotenoid mutants demonstrate that lutein is not essential for photosynthesis in higher plants. Pogson B, et al. **Plant Cell** 1996 Sep;8(9):1627–39

[Effects of food carotenoid dyes E160a and E160e on clastogenic activity of cyclophosphamide and dioxidine in mice] Durnev AD, et al. **Vestn Ross Akad Med Nauk** 1997; (7):36–9 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Novel marine di–Z–carotenoids: cucumariaxanthins A, B, and C from the sea cucumber Cucumaria japonica. Tsushima M, et al. **J Nat Prod** 1996 Jan;59(1):30–4

METABOLISM

Measurement of retinoids and carotenoids in breast adipose tissue and a comparison of concentrations in breast cancer cases and control subjects. Zhang S, et al. **Am J Clin Nutr** 1997 Sep;66(3):626–32

Predictors of adipose tissue carotenoid and retinol levels in nine countries. The EURAMIC Study. Virtanen SM, et al. **Am J Epidemiol** 1996 Nov 15;144(10):968–79

Adaptive response of Haloferax mediterranei to low concentrations of NaCl (< 20%) in the growth medium. D'Souza SE, et al. **Arch Microbiol** 1997 Jul;168(1):68–71

Laser–induced fluorescence studies of the biodistribution of carotenoporphyrins in mice. Nilsson H, et al. **Br J Cancer** 1997;76(3):355–64

The carotenoid 7,8–dihydro–psi end group can be cyclized by the lycopene cyclases from the bacterium Erwinia uredovora and the higher plant Capsicum annuum. Takaichi S, et al. **Eur J Biochem** 1996 Oct 1;241(1):291–6

Absorption of beta–carotene and other carotenoids in humans and animal models. van Vliet T. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S32–7 (59 ref.)

Anaerobic carotenoid biosynthesis in Rhodobacter sphaeroides 2.4.1: H2O is a source of oxygen for the 1–methoxy group of spheroidene but not for the 2–oxo group of spheroidenone. Yeliseev AA, et al. **FEBS Lett** 1997 Feb 10;403(1):10–4

Kinetics of reduction of hypervalent iron in myoglobin by crocin in aqueous solution. Jørgensen LV, et al. **Free Radic Res** 1997 Jul;27(1):73–87

Effect of photoinhibition and temperature on carotenoids in sorghum leaves. Sharma PK, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):471–7

Differential carotenoid composition of the B875 and B800–850 photosynthetic antenna complexes in Rhodobacter sphaeroides 2.4.1: involvement of spheroidene and spheroidenone in adaptation to changes in light intensity and oxygen availability. Yeliseev AA, et al. **J Bacteriol** 1996 Oct;178(20):5877–83

Beta–oxidation in rabbit liver in vitro and in the perfused ferret liver contributes to retinoic acid biosynthesis from beta–apocarotenoic acids. Wang XD, et al. **J Biol Chem** 1996 Oct 25;271(43):26490–8

Photoacoustically monitored thermal energy dissipation and xanthophyll cycle carotenoids in higher plant leaves. Havaux M, et al. **J Photochem Photobiol B** 1997 Aug; 40(1):68–75

Energy transfer reactions involving carotenoids: quenching of chlorophyll fluorescence. Young AJ, et al. **J Photochem Photobiol B** 1996 Oct;36(1):3–15 (90 ref.)

Is beta–carotene an antioxidant? Crabtree DV, et al. **Med Hypotheses** 1997 Feb;48(2):183–7 (37 ref.)

Triplet energy transfer between the primary donor and carotenoids in Rhodobacter sphaeroides R–26.1 reaction centers incorporated with spheroidene analogs having different extents of pi–electron conjugation. Farhoosh R, et al. **Photochem Photobiol** 1997 Jul;66(1):97–104

Carotenoids in photosynthesis. Frank HA, et al. **Photochem Photobiol** 1996 Mar;63(3):257–264 (76 ref.)

Triplet state energy transfer between the primary donor and the carotenoid in Rhodobacter sphaeroides R–26.1 reaction centers exchanged with modified bacteriochlorophyll pigments and reconstituted with spheroidene. Frank HA, et al. **Photochem Photobiol** 1996 Nov;64(5):823–31

Genetic dissection of carotenoid synthesis in arabidopsis defines plastoquinone as an essential component of phytoene desaturation. Norris SR, et al. **Plant Cell** 1995 Dec;7(12):2139–49

Arabidopsis carotenoid mutants demonstrate that lutein is not essential for photosynthesis in higher plants. Pogson B, et al. **Plant Cell** 1996 Sep;8(9):1627–39

Molecular cloning of a carotenoid–associated protein from Cucumis sativus corollas: homologous genes involved in carotenoid sequestration in chromoplasts. Vishnevetsky M, et al. **Plant J** 1996 Dec;10(6):1111–8

Specific oxidative cleavage of carotenoids by VP14 of maize. Schwartz SH, et al. **Science** 1997 Jun 20;276(5320):1872–4

Cigarette smoking and retinal carotenoids: implications for age–related macular degeneration. Hammond BR Jr, et al. **Vision Res** 1996 Sep;36(18):3003–9

CAROTENOIDS

PHARMACOKINETICS

Uptake and distribution of carotenoids, retinol, and tocopherols in human colonic epithelial cells in vivo. Nair PP, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov; 5(11):913–6

Assessment of the bioavailability of micronutrients. Proceedings of an ILSI Europe Workshop. Norwich, United Kingdom, 25–26 March 1996. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S1–90

Bioavailability of carotenoids. Parker RS. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S86–90 (29 ref.)

PHARMACOLOGY

Inhibitory effect of crocetin on benzo(a)pyrene genotoxicity and neoplastic transformation in C3H10T1/2 cells. Chang WC, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3603–8

Ah receptor–dependent CYP1A induction by two carotenoids, canthaxanthin and beta–apo–8'–carotenal, with no affinity for the TCDD binding site. Gradelet S, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):307–15

Can carotenoids reduce oxidation–induced cataract? Sanderson J, et al. **Biochem Soc Trans** 1996 Aug;24(3):385S

Modulation of aflatoxin B1 carcinogenicity, genotoxicity and metabolism in rat liver by dietary carotenoids: evidence for a protective effect of CYP1A inducers. Gradelet S, et al. **Cancer Lett** 1997 Mar 19;114(1–2):221–3

Inhibitory effects of natural carotenoids, alpha–carotene, beta–carotene, lycopene and lutein, on colonic aberrant crypt foci formation in rats. Narisawa T, et al. **Cancer Lett** 1996 Oct 1;107(1):137–42

Biological activities of natural and synthetic carotenoids: induction of gap junctional communication and singlet oxygen quenching. Stahl W, et al. **Carcinogenesis** 1997 Jan; 18(1):89–92

Control of Drosophila opsin gene expression by carotenoids and retinoic acid: northern and western analyses. Picking WL, et al. **Exp Eye Res** 1996 Nov;63(5):493–500

Protective effect of curcumin, ellagic acid and bixin on radiation induced toxicity. Thresiamma KC, et al. **Indian J Exp Biol** 1996 Sep;34(9):845–7

Possible immunomodulating activities of carotenoids in in vitro cell culture experiments. Okai Y, et al. **Int J Immunopharmacol** 1996 Dec;18(12):753–8

Carotenoid replacement in Drosophila: freeze–fracture electron microscopy. Stark WS, et al. **J Neurocytol** 1996 Apr;25(4):233–41

Vitamin A and carotenoids stimulate differentiation of mouse osteoblastic cells. Park CK, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Jun;43(3):281–96

Biological activity of (all–E)–beta–apo–12'–carotenoic acid and the geometrical isomers on human acute promyelocytic leukemia cell line HL–60. Suzuki T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):575–85

Inhibition of protein kinase C and proto–oncogene expression by crocetin in NIH/3T3 cells. Wang CJ, et al. **Mol Carcinog** 1996 Dec;17(4):235–40

Antimutagenicity of xanthophylls present in Aztec Marigold (Tagetes erecta) against 1–nitropyrene. González de Mejía E, et al. **Mutat Res** 1997 Mar 17;389(2–3):219–26

Effects of provitamin A or non–provitamin A carotenoids on liver xenobiotic–metabolizing enzymes in mice. Astorg P, et al. **Nutr Cancer** 1997;27(3):245–9

Induction of HL–60 cell differentiation by carotenoids. Gross MD, et al. **Nutr Cancer** 1997;27(2):169–73

Effects of various carotenoids on cloned, effector–stage T–helper cell activity. Jyonouchi H, et al. **Nutr Cancer** 1996;26(3):313–24

In vitro formation of crocetin glucosyl esters by Crocus sativus callus extract. Dufresne C, et al. **Planta Med** 1997 Apr;63(2):150–3

Effects of canthaxanthin, astaxanthin, lycopene and lutein on liver xenobiotic–metabolizing enzymes in the rat. Gradelet S, et al. **Xenobiotica** 1996 Jan;26(1):49–63

beta–Apo–8'–carotenal, but not beta–carotene, is a strong inducer of liver cytochromes P4501A1 and 1A2 in rat. Gradelet S, et al. **Xenobiotica** 1996 Sep;26(9):909–19

[Mechanisms of antitumor activity of carotenoids] Vershinin AO, et al. **Vopr Med Khim** 1996 Oct–Dec;42(4):275–7 (37 ref.) (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Structural determinations and spectroscopic studies of carotenoids reveal the factors important in controlling their function in biological systems. Frank HA. **Eur J Clin Nutr** 1996 Jul;50 Suppl 3:S13–6 (12 ref.)

THERAPEUTIC USE

Carotenoids and retinoids: a review of research, clinical, and public health applications. Hinds TS, et al. **J Clin Pharmacol** 1997 Jul;37(7):551–8 (54 ref.)

Carotenoids in cancer, mastalgia, and AIDS: prevention and treatment—an overview. Santamaria L, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):89–95 (46 ref.)

[The radioprotective properties of a lipocarotenoid extract of Rhodotorula glutinis yeasts] Zalashko MV, et al. **Radiats Biol Radioecol** 1997 Jan–Feb;37(1):41–5 (Eng. Abstr.) **(Rus)**

CAROTID ARTERIES

Clinical experimental observations of carotid artery injections of sodium amytal. Wada JA. **Brain Cogn** 1997 Feb; 33(1):11–3

Thromboxane A2 acts at a site perfused by the carotid vasculature to mediate cardiovascular and adrenocortical responses. Cudd TA, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):271–8

Elective stenting of the extracranial carotid arteries [see comments] Yadav JS, et al. **Circulation** 1997 Jan 21; 95(2):376–81. Comment in: Circulation 1997 Jan 21;95(2):303–5.

Large artery giant cell arteritis: a diagnosis to remember [letter] Caramaschi P, et al. **Clin Rheumatol** 1997 Mar; 16(2):219–20

Effects of insulin–like growth factor I (IGF–I) on the porto–arterial concentration differences of amino acids and glucose: a comparison between oral and intraperitoneal administration in the newborn piglet. Fhölenhog K, et al. **Horm Metab Res** 1996 Nov;28(11):582–7

Intracarotid histamine administration results in dose–dependent vasogenic brain oedema formation in new–born pigs. Németh L, et al. **Inflamm Res** 1997 Mar; 46 Suppl 1:S45–6

Results of surgery for head and neck tumors that involve the carotid artery at the skull base. Brisman MH, et al. **J Neurosurg** 1997 May;86(5):787–92

The effects of venous occlusion on cerebral blood flow characteristics during ECMO. Weber TR, et al. **J Pediatr Surg** 1996 Aug;31(8):1124–7

Statement regarding carotid angioplasty and stenting. Society for Vascular Surgery. International Society for Cardiovascular Surgery, North American Chapter. **J Vasc Surg** 1996 Nov;24(5):900

Carotid pseudoaneurysm from inadvertent carotid artery catheterization for haemodialysis. Parry W, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1853–5

Contralateral and ipsilateral microsurgical approaches to carotid–ophthalmic aneurysms. Fries G, et al. **Neurosurgery** 1997 Aug;41(2):333–42; discussion 342–3

Delayed vasodilation and altered oxygenation after cerebral ischemia in fetal sheep. Marks KA, et al. **Pediatr Res** 1996 Jan;39(1):48–54

Aneurysms of the great vessels and their branches. Bower TC. **Semin Vasc Surg** 1996 Jun;9(2):134–46

Recurrence of cervical artery dissection. A prospective study of 81 patients. Bassetti C, et al. **Stroke** 1996 Oct; 27(10):1804–7

Assessment of cerebral autoregulation using carotid artery compression [letter; comment] Mahajan RP. **Stroke** 1997 May;28(5):1087–8. Comment on: Stroke 1996 Dec;27(12):2197–203.

Assessment of cerebral autoregulation using carotid artery compression [see comments] Smielewski P, et al. **Stroke** 1996 Dec;27(12):2197–203. Comment in: Stroke 1997 May;28(5):1087–8.

Local delivery of platelets with encapsulated iloprost to balloon injured pig carotid arteries: effect on platelet deposition and neointima formation. Banning A, et al. **Thromb Haemost** 1997 Jan;77(1):190–6

[Dural carotid–cavernous fistula with uveal effusion syndrome] Moldovan SM, et al. **J Fr Ophtalmol** 1997; 20(3):217–20 (Eng. Abstr.) **(Fre)**

[Expert assessment general practice: did carotid pressure trial cause a stroke?] Cyran W. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):879–82 **(Ger)**

[Management and long–term follow–up results in patients with carotid artery dissection] Uno M, et al. **No Shinkei Geka** 1997 May;25(5):417–23 (Eng. Abstr.) **(Jpn)**

[Comparison between HDL and LDL cholesterol as risk factors for carotid atherosclerosis] Gagliardi RJ, et al. **Arq Neuropsiquiatr** 1995 Dec;53(4):730–6 (Eng. Abstr.) **(Por)**

ABNORMALITIES

Unilateral anomalous left common carotid artery; a case report. Kaneko K, et al. **Anat Anz** 1996 Oct;178(5):477–80

A case with coincidence of aberrant right subclavian artery and common origin of the carotid arteries. Kurt MA, et al. **Anat Anz** 1997 Apr;179(2):175–6

Association of ectopic posterior pituitary and anterior pituitary hypoplasia with absence of the left internal carotid. Shulman DI, et al. **J Pediatr Endocrinol Metab** 1996 Sep–Oct;9(5):539–42

Multiple segmental agenesis of the cerebral arteries: case report. Hyogo T, et al. **Neuroradiology** 1996 Jul;38(5):433–6

Is pharyngoplasty a risk in velocardiofacial syndrome? An assessment of medially displaced carotid arteries. Ross DA, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1182–90

[Central retinal vein occlusion after embolization for spontaneous carotid cavernous sinus fistula] Fukami T, et al. **No Shinkei Geka** 1996 Aug;24(8):749–53 (Eng. Abstr.) **(Jpn)**

[Hypoplasia of the left internal carotid artery associated with anterior communicating aneurysm, intercarotid anastomosis and left rete carotidis] Tanaka Y, et al. **No To Shinkei** 1996 Feb;48(2):170–4 (Eng. Abstr.) **(Jpn)**

ANATOMY & HISTOLOGY

The clinoidal space: anatomical review and surgical implications. De Jesús O. **Acta Neurochir (Wien)** 1997; 139(4):361–5

Variable tip angle slab selection pulses for carotid and cerebral time–of–flight MR angiography. Theory and experimental analysis. Ikushima I, et al. **Acta Radiol** 1997 Mar;38(2):275–80

Segmented three–dimensional echo–planar flow imaging of the cervical carotid arteries. Tkach JA, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1339–47

Flow–induced vascular remodeling in the rat carotid artery diminishes with age. Miyashiro JK, et al. **Circ Res** 1997 Sep;81(3):311–9

A contribution by the ascending pharyngeal artery to the arterial supply of the odontoid process of the axis vertebra. Haffajee MR. **Clin Anat** 1997;10(1):14–8

Phase–derivative analysis in MR angiography: reduced Venc dependency and improved vessel wall detection in laminar and disturbed flow. Hoogeveen RM, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):321–30 (32 ref.)

Magnetic resonance angiography of the origins of the supraaortic arteries: comparison of single and double volume acquisition 3D time of flight. Carriero A, et al. **J Neuroradiol** 1996 Sep;23(2):62–8

Three–dimensional magnetization–prepared time–of–flight MR angiography of the carotid and vertebral arteries. Wilman AH, et al. **Magn Reson Med** 1997 Feb;37(2):252–9

Carotid artery wall thickness in women treated with hormone replacement therapy. Muscat Baron Y, et al. **Maturitas** 1997 May;27(1):47–53

The carotid artery: embryology, normal anatomy, and physiology. Dungan DH, et al. **Neuroimaging Clin N Am** 1996 Nov;6(4):789–99 (42 ref.)

Macroscopic blood supply to the hypophysis and hypothalamus of the ostrich (Struthio camelus). Elias MZ, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):245–52

CHEMISTRY

VCAM–1 expression and network of VCAM–1 positive vascular dendritic cells in advanced atherosclerotic lesions of carotid arteries and aortas. Bobryshev YV, et al. **Acta Histochem** 1996 Apr;98(2):185–94

Coexistence of neuropeptides in the amphibian carotid labyrinth. An application of double immunolabelling in combination with a multiple dye filter. Kusakabe T, et al. **Adv Exp Med Biol** 1996;410:325–8

Estimation of the percentage of carotid atheromatous plaque components and investigation of a probable correlation with the neurologic status of the patients. Agapitos E, et al. **Gen Diagn Pathol** 1996 Oct;142(2):105–8

CYTOLOGY

The neointima formed in endothelial cell sodded ePTFE vascular grafts results from both cellular–hyperplasia and extracellular–hypertrophy. Kleinert LB, et al. **Cell Transplant** 1996 Jul–Aug;5(4):475–82

Effects of changes in blood flow rate on cell death and cell proliferation in carotid arteries of immature rabbits. Cho A, et al. **Circ Res** 1997 Sep;81(3):328–37

DRUG EFFECTS

Controlled delivery of a tyrphostin inhibits intimal hyperplasia in a rat carotid artery injury model. Golomb G, et al. **Atherosclerosis** 1996 Sep 6;125(2):171–82

BAYw6228 suppresses accumulation of macrophages in balloon–induced intimal thickening of rabbit carotid artery. Igarashi M, et al. **Atherosclerosis** 1997 Feb 10;128(2):251–4

Depolymerized holothurian glycosaminoglycan (DHG) prevents neointimal formation in balloon–injured rat carotid artery. Igarashi M, et al. **Atherosclerosis** 1997 Feb 28;129(1):27–31

Myosin light chain kinase phosphorylation in nitrovasodilator induced swine carotid artery relaxation. van Riper DA, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):323–30

The effect of chronic treatment with NO donors during intimal thickening and fatty streak formation. De Meyer GR, et al. **Biofactors** 1997;6(2):209–15

Endothelium–derived factors and hyperpolarization of the carotid artery of the guinea–pig. Corriu C, et al. **Br J Pharmacol** 1996 Nov;119(5):959–64

Pharmacology of two novel mixed ETA/ETB receptor antagonists, BQ–928 and 238, in the carotid and pulmonary arteries and the perfused kidney of the rabbit. Maurice MC, et al. **Br J Pharmacol** 1997 Jan;120(2):319–25

Effects of cyclopiazonic acid and thapsigargin on electromechanical activities and intracellular Ca2+ in smooth muscle of carotid artery of hypertensive rats. Sekiguchi F, et al. **Br J Pharmacol** 1996 Jun;118(4):857–64

Mediation of 5–HT–induced external carotid vasodilatation in GR 127935–pretreated vagosympathectomized dogs by the putative 5–HT7 receptor. Villalón CM, et al. **Br J Pharmacol** 1997 Apr;120(7):1319–27

Clinical and research contributions of the intracarotid amobarbital procedure to neuropsychology. Jones–Gotman M, et al. **Brain Cogn** 1997 Feb;33(1):1–6 (20 ref.)

Effect of supplementary antioxidant vitamin intake on carotid arterial wall intima–media thickness in a controlled clinical trial of cholesterol lowering. Azen SP, et al. **Circulation** 1996 Nov 15;94(10):2369–72

Effects of oestrogen and progesterone on age-related changes in arteries of postmenopausal women. Liang YL, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):457-9

The mechanisms of the ocular autonomic dysfunction during the intracarotid amytal suppression test. DeToledo JC, et al. **Epilepsy Res** 1997 Jan;26(2):309-13

Thrombosis triggered by severe arterial lesions is inhibited by oral administration of a glycoprotein IIb/IIIa antagonist. Badimon JJ, et al. **Eur J Clin Invest** 1997 Jul;27(7):568-74

Failure of heparin to inhibit the expression of the thrombin receptor following endothelial injury of the rabbit carotid artery. Guitteny AF, et al. **Eur J Pharmacol** 1997 May 30;327(2-3):157-62

Effect of antimigraine drugs on dural blood flows and resistances and the responses to trigeminal stimulation. Lambert G, et al. **Eur J Pharmacol** 1996 Sep 12; 311(2-3):141-51

Pharmacological evidence of a role for platelet activating factor as a modulator of vasomotor tone and blood pressure. Lopes-Martins R, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):287-94

Selective vasoconstriction by alniditan in the carotid vascular bed of anaesthetized dogs. Van de Water A, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):127-37

Effect of nicotine on the intimal hyperplasia after endothelial removal of the rabbit carotid artery. Hamasaki H, et al. **Gen Pharmacol** 1997 May;28(5):653-9

Effects of sympathectomy on endothelin-1 and histamine responses of rabbit carotid artery. Utkan T, et al. **Gen Pharmacol** 1997 Aug;29(2):197-9

Perindopril treatment prevents the loss of endothelial nitric oxide function and development of neo-intima in rabbits. Hickey H, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1985-94

Fibrin glue containing fibroblast growth factor type 1 and heparin with autologous endothelial cells reduces intimal hyperplasia in a canine carotid artery balloon injury model. Zarge JI, et al. **J Vasc Surg** 1997 May;25(5):840-8; discussion 848-9

Amitraz depresses cardiovascular responses to bilateral carotid occlusion. Reynoldson JA, et al. **J Vet Pharmacol Ther** 1996 Feb;19(1):22-6

Effects of S20749, a close analogue of sumatriptan, on porcine carotid haemodynamics and human isolated coronary artery. Saxena PR, et al. **Pharmacol Toxicol** 1996 Oct; 79(4):199-204

Effect of deferoxamine and sympathectomy on vasospasm following subarachnoid hemorrhage. Utkan T, et al. **Pharmacology** 1996 Jun;52(6):353-61

Central inhibitory effect of adenosine deaminase on carotid blood flow increase at high pressure. Guerrero F, et al. **Physiol Behav** 1996 Feb;59(2):283-6

Long-term NO synthase inhibition affects heart weight and geometry of coronary and carotid arteries. Kristek F, et al. **Physiol Res** 1996;45(5):361-7

Neointima formation in injured hamster carotid artery is effectively prevented by the combination G4120 and quinapril. Matsuno H, et al. **Thromb Haemost** 1996 Aug; 76(2):263-9

[Influence of sarcoplasmic reticulum Ca-ATPase inhibition on carotid artery smooth muscle in stroke-prone spontaneously hypertensive rats and Wistar Kyoto rats] Sekiguchi F, et al. **J Smooth Muscle Res** 1995 Dec; 31(6):388-9 **(Jpn)**

ENZYMOLOGY

Endothelin-converting enzyme expression in the rat vascular injury model and human coronary atherosclerosis [published erratum appears in Circulation 1997 Apr 1;95(7):1975] Minamino T, et al. **Circulation** 1997 Jan 7; 95(1):221-30

Balloon angioplasty and induction of non-endothelial nitric oxide synthase in rabbit carotid arteries. Bosmans JM, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):163-74

Early induction of angiotensin I-converting enzyme in rat carotid artery after balloon injury. Fernandez-Alfonso MS, et al. **Hypertension** 1997 Aug;30(2 Pt 1):272-7

In vivo gene transfer into rat arterial walls with novel adeno-associated virus vectors. Arnold TE, et al. **J Vasc Surg** 1997 Feb;25(2):347-55

INJURIES

Importance of platelets in neutrophil adhesion and vasoconstriction after deep carotid arterial injury by angioplasty in pigs. Merhi Y, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1185-91

The effect of arterial clamp duration on endothelial injury: an experimental study. Margovsky AI, et al. **Aust N Z J Surg** 1997 Jul;67(7):448-51

Temporary arterial stenting: comparison to permanent stenting and conventional balloon injury in a rabbit carotid artery model. Rechavia E, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):85-92

Collagen VIII is expressed by vascular smooth muscle cells in response to vascular injury. Sibinga NE, et al. **Circ Res** 1997 Apr;80(4):532-41

Expression of inducible nitric oxide synthase inhibits platelet adhesion and restores blood flow in the injured artery. Yan ZQ, et al. **Circ Res** 1996 Jul;79(1):38-44

Medroxyprogesterone attenuates estrogen-mediated inhibition of neointima formation after balloon injury of the rat carotid artery. Levine RL, et al. **Circulation** 1996 Nov 1;94(9):2221-7

Evidence for the rapid onset of apoptosis in medial smooth muscle cells after balloon injury [see comments] Perlman H, et al. **Circulation** 1997 Feb 18;95(4):981-7. Comment in: Circulation 1997 Feb 18;95(4):782-6.

Subacute thrombosis and vascular injury resulting from slotted-tube nitinol and stainless steel stents in a rabbit carotid artery model [published erratum appears in Circulation 1996 Nov 15;94(10):2668] Sheth S, et al. **Circulation** 1996 Oct 1;94(7):1733-40

Angiotensin-converting enzyme inhibition abolishes medial smooth muscle PDGF-AB biosynthesis and attenuates cell proliferation in injured carotid arteries: relationships to neointima formation. Wong J, et al. **Circulation** 1997 Sep 2;96(5):1631-40

Differentiating agent, hexamethylene bisacetamide, inhibits neointimal formation after vascular injury. Ishikawa S, et al. **Coron Artery Dis** 1997 Jan;8(1):28-32

Thrombosis triggered by severe arterial lesions is inhibited by oral administration of a glycoprotein IIb/IIIa antagonist. Badimon JJ, et al. **Eur J Clin Invest** 1997 Jul;27(7):568-74

Improved efficiency of arterial gene transfer by use of poloxamer 407 as a vehicle for adenoviral vectors. Feldman LJ, et al. **Gene Ther** 1997 Mar;4(3):189-98

Expression of p53 protein and p53 gene transcripts in rabbit carotid arteries after balloon denudation. Aoyagi M, et al. **Histochem Cell Biol** 1997 May;107(5):365-70

Early induction of angiotensin I-converting enzyme in rat carotid artery after balloon injury. Fernandez-Alfonso MS, et al. **Hypertension** 1997 Aug;30(2 Pt 1):272-7

Blunt carotid artery injuries. Parikh AA, et al. **J Am Coll Surg** 1997 Jul;185(1):80-6

Inadvertent carotid artery cannulation during pulmonary artery catheter insertion [clinical conference] Eckhardt WF, et al. **J Cardiothorac Vasc Anesth** 1996 Feb; 10(2):283-90

The regulation of p42/p44 mitogen-activated protein kinases in the injured rat carotid artery. Lille S, et al. **J Surg Res** 1997 Jul 1;70(2):178-86

Traumatic carotid artery dissection of restrained driver and thoracic aorta transection of unrestrained passenger in a motor vehicle accident: case report. Mason DP, et al. **J Trauma** 1997 Sep;43(3):537-40

From deadly weapon to toy and back again: the danger of air rifles. Naude GP, et al. **J Trauma** 1996 Dec; 41(6):1039-43

Blunt carotid injury [letter] Punjabi AP, et al. **J Trauma** 1996 Dec;41(6):1077-8

Fibrin glue containing fibroblast growth factor type 1 and heparin with autologous endothelial cells reduces intimal hyperplasia in a canine carotid artery balloon injury model. Zarge JI, et al. **J Vasc Surg** 1997 May;25(5):840-8; discussion 848-9

The significance of carotid canal involvement in basilar cranial fracture. Resnick DK, et al. **Neurosurgery** 1997 Jun; 40(6):1177-81

Increased endothelin ET(A) receptor expression in rat carotid arteries after balloon injury. Viswanathan M, et al. **Peptides** 1997;18(2):247-55

Increased non-angiotensin II [125I]CGP 42112 binding in rat carotid artery after balloon injury. Viswanathan M, et al. **Peptides** 1996;17(4):695-9

Separation of the arterial wall from blood contact using hydrogel barriers reduces intimal thickening after balloon injury in the rat: the roles of medial and luminal factors in arterial healing. West JL, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13188-93

Guidewire knotting after carotid perforation. Nguyen D, et al. **Tex Heart Inst J** 1996;23(4):313

INNERVATION

Effects of vestibular and oculomotor stimulation on responsiveness of the carotid-cardiac baroreflex. Convertino VA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R615-22

Influence of carotid denervation on the body-core temperature and metabolic responses to changes in ambient temperature during normoxemia and acute hypoxemia in guinea pigs during postnatal maturation. Fewell JE, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):104-11

Neurocompensatory responses to balloon-catheter-induced injury of the rat carotid artery. Milner P, et al. **J Vasc Res** 1997 Jan-Feb;34(1):31-40

METABOLISM

Natriuresis caused by increased carotid Na+ concentration after renal denervation. Emmeluth C, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F510-7

Calcium-and phorbol ester-dependent calponin phosphorylation in homogenates of swine carotid artery. Rokolya A, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H776-83

Syndecan-4 is a primary-response gene induced by basic fibroblast growth factor and arterial injury in vascular smooth muscle cells. Cizmeci-Smith G, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):172-80

In vivo transfer of lipoprotein(a) into human atherosclerotic carotid arterial intima. Nielsen LB, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):905-11

PDGF receptor protein tyrosine kinase expression in the balloon-injured rat carotid artery. Panek RL, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1283-8

Osteopontin expression in platelet-derived growth factor-stimulated vascular smooth muscle cells and carotid artery after balloon angioplasty. Wang X, et al. **Arterioscler Thromb Vasc Biol** 1996 Nov;16(11):1365-72

Expression of 14-3-3 gamma in injured arteries and growth factor- and cytokine-stimulated human vascular smooth muscle cells. Autieri MV, et al. **Cell Growth Differ** 1996 Nov;7(11):1453-60

Plasminogen activator inhibitor type 1 and tissue inhibitor of metalloproteinases-2 increase after arterial injury in rats. Hasenstab D, et al. **Circ Res** 1997 Apr;80(4):490-6

Effect of environmental tobacco smoke on LDL accumulation in the artery wall. Roberts KA, et al. **Circulation** 1996 Nov 1;94(9):2248-53

Angiotensin-converting enzyme inhibition abolishes medial smooth muscle PDGF-AB biosynthesis and attenuates cell proliferation in injured carotid arteries: relationships to neointima formation. Wong J, et al. **Circulation** 1997 Sep 2;96(5):1631-40

Smooth muscle cell proliferation, elastin formation, and tropoelastin transcripts during the development of intimal thickening in rabbit carotid arteries after endothelial denudation. Aoyagi M, et al. **Histochem Cell Biol** 1997 Jan; 107(1):11-7

Expression of p53 protein and p53 gene transcripts in rabbit carotid arteries after balloon denudation. Aoyagi M, et al. **Histochem Cell Biol** 1997 May;107(5):365-70

Kinetic evaluation of positron-emitting muscarinic receptor ligands employing direct intracarotid injection. Buck A, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1280-7

Downregulation of cyclin-dependent kinase 2 activity and cyclin A promoter activity in vascular smooth muscle cells by p27(KIP1), an inhibitor of neointima formation in the rat carotid artery. Chen D, et al. **J Clin Invest** 1997 May 15;99(10):2334-41

Optimization of immunofluorescence methods by quantitative image analysis. Mosedale DE, et al. **J Histochem Cytochem** 1996 Sep;44(9):1043-50

Effects of maturation on cyclic GMP metabolism in ovine carotid arteries. White CR, et al. **Pediatr Res** 1996 Jan; 39(1):25-31

Increased endothelin ET(A) receptor expression in rat carotid arteries after balloon injury. Viswanathan M, et al. **Peptides** 1997;18(2):247-55

Increased non-angiotensin II [125I]CGP 42112 binding in rat carotid artery after balloon injury. Viswanathan M, et al. **Peptides** 1996;17(4):695-9

Focal expression of intercellular adhesion molecule-1 in the human carotid bifurcation. Endres M, et al. **Stroke** 1997 Jan;28(1):77-82

MICROBIOLOGY

Endovascular presence of Chlamydia pneumoniae in patients with hemodynamically effective carotid artery stenosis. Maass M, et al. **Angiology** 1997 Aug;48(8):699-706

PATHOLOGY

Geometric characterization of stenosed human carotid arteries [published erratum appears in Acad Radiol 1997 Apr;4(4):263] Smith RF, et al. **Acad Radiol** 1996 Nov; 3(11):898-911

Combined effects of lipid peroxidation and antioxidant status on carotid atherosclerosis in a population aged 59-71 y: The EVA Study. Etude sur le Vieillisement Artériel. Bonithon-Kopp C, et al. **Am J Clin Nutr** 1997 Jan; 65(1):121-7

Association of coronary heart disease incidence with carotid arterial wall thickness and major risk factors: the Atherosclerosis Risk in Communities (ARIC) Study, 1987-1993. Chambless LE, et al. **Am J Epidemiol** 1997 Sep 15;146(6):483-94

Quantitative image analysis of cell proliferation after balloon catheter injury in the rabbit carotid artery. Robert C, et al. **Anal Quant Cytol Histol** 1995 Dec;17(6):366-73

Common carotid intima-media thickness as an indicator of atherosclerosis at other sites of the carotid artery. The Rotterdam Study. Bots ML, et al. **Ann Epidemiol** 1996 Mar; 6(2):147-53

Identification of dysfunctional endothelial cells over vascular lesions in the non-human primate. Noguchi S, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:506-14

Adenovirus-mediated transfer of cyclin-dependent kinase inhibitor-p21 suppresses neointimal formation in the balloon-injured rat carotid arteries in vivo. Ueno H, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:401-11

Migration of medial smooth muscle cells to the intima after balloon injury. Yoshida Y, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:459-70

Polymorphism of the apolipoprotein E gene and early carotid atherosclerosis defined by ultrasonography in asymptomatic adults. Cattin L, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):91-4

Comparison of the effects of the thrombin inhibitor r-hirudin in four animal models of neointima formation after arterial injury. Gerdes C, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct;16(10):1306-11

Expression of heparin-binding epidermal growth factor-like growth factor in neointimal cells induced by balloon injury in rat carotid arteries. Igura T, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1524-31

Neutralizing antibodies directed against osteopontin inhibit rat carotid neointimal thickening after endothelial denudation. Liaw L, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):188–93

Ultrasonographically assessed maximum carotid artery wall thickness in Mexico City residents and Mexican Americans living in San Antonio, Texas. Association with diabetes and cardiovascular risk factors. Wei M, et al. **Arterioscler Thromb Vasc Biol** 1996 Nov;16(11):1388–92

BAYw6228 suppresses accumulation of macrophages in balloon-induced intimal thickening of rabbit carotid artery. Igarashi M, et al. **Atherosclerosis** 1997 Feb 10;128(2):251–4

Substantial inhibition of neo-intimal response to balloon injury in the rat carotid artery using a combination of antibodies to platelet-derived growth factor-BB and basic fibroblast growth factor. Rutherford C, et al. **Atherosclerosis** 1997 Apr;130(1–2):45–51

Copper-induced inflammatory reactions of rat carotid arteries mimic restenosis/arteriosclerosis-like neointima formation. Völker W, et al. **Atherosclerosis** 1997 Apr; 130(1–2):29–36

Simvastatin inhibits myointimal hyperplasia following carotid artery injury in cholesterol-fed rabbits. Dol F, et al. **Blood Coagul Fibrinolysis** 1996 Nov;7(8):772–8

Effect of verapamil on intimal thickening and vascular reactivity in the collared carotid artery of the rabbit. Ustüines L, et al. **Br J Pharmacol** 1996 Aug;118(7):1681–8

Occlusion of unilateral carotid artery in Down syndrome. Gaggero R, et al. **Brain Dev** 1996 Jan–Feb;18(1):81–3

Measurement of carotid bifurcation pressure gradients using the Bernoulli principle. Illig KA, et al. **Cardiovasc Surg** 1996 Apr;4(2):130–4

Lesion width as a discriminator of plaque characteristics. Ricotta JJ, et al. **Cardiovasc Surg** 1996 Apr;4(2):124–9

Plasminogen activator inhibitor type 1 and tissue inhibitor of metalloproteinases-2 increase after arterial injury in rats. Hasenstab D, et al. **Circ Res** 1997 Apr;80(4):490–6

Upregulation of basement membrane-degrading metalloproteinase secretion after balloon injury of pig carotid arteries. Southgate KM, et al. **Circ Res** 1996 Dec; 79(6):1177–87

Carotid intima-media thickness as a surrogate end point for coronary artery disease [letter; comment] Hodis HN, et al. **Circulation** 1996 Nov 1;94(9):2311–2. Comment on: Circulation 1995 Oct 15;92(8):2127–34.

Inhibition of tissue factor-mediated coagulation markedly attenuates stenosis after balloon-induced arterial injury in minipigs. Oltrona L, et al. **Circulation** 1997 Jul 15; 96(2):646–52

Sexually dimorphic response of the balloon-injured rat carotid artery to hormone treatment. Oparil S, et al. **Circulation** 1997 Mar 4;95(5):1301–7

Downregulation of cyclin G1 expression by retrovirus-mediated antisense gene transfer inhibits vascular smooth muscle cell proliferation and neointima formation. Zhu NL, et al. **Circulation** 1997 Jul 15; 96(2):628–35

A nitric oxide donor (spermine-NONOate) prevents the formation of neointima in rabbit carotid artery. Yin ZL, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):436–8

Effect of an angiotensin II receptor antagonist, TCV-116, on neointimal formation following balloon injury in the SHR carotid artery. Kino H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S360–2

Effect of polymorphism of apolipoprotein E and angiotensin-converting enzyme genes on arterial wall thickness. Kogawa K, et al. **Diabetes** 1997 Apr;46(4):682–7

Intimal-medial thickness of the carotid artery in nondiabetic and NIDDM patients. Relationship with insulin resistance. Bonora E, et al. **Diabetes Care** 1997 Apr;20(4):627–31

Estimation of the percentage of carotid atheromatous plaque components and investigation of a probable correlation with the neurologic status of the patients. Agapitos E, et al. **Gen Diagn Pathol** 1996 Oct;142(2):105–8

Carotid intima-media thickness in young patients with familial hypercholesterolaemia. Lavrenčič A, et al. **Heart** 1996 Oct;76(4):321–5

Intima-media thickness of the carotid artery in hypertensive subjects and hypertrophic cardiomyopathy patients. Ohya Y, et al. **Hypertension** 1997 Jan;29(1 Pt 2):361–5

Plasma adrenomedullin concentrations and cardiac and arterial hypertrophy in hypertension. Sumimoto T, et al. **Hypertension** 1997 Sep;30(3 Pt 2):741–5

Insulin resistance as an independent risk factor for carotid wall thickening. Suzuki M, et al. **Hypertension** 1996 Oct; 28(4):593–8

Complete spontaneous thrombosis of a giant aneurysm of the intracavernous carotid artery [letter] Tamburrini G, et al. **Ital J Neurol Sci** 1997 Apr;18(2):125–6

Intimal thickening under shear in a carotid bifurcation—a numerical study. Lee D, et al. **J Biomech** 1996 Jan; 29(1):1–11

Stroke in children after blunt intraoral trauma: use of magnetic resonance angiography as a noninvasive diagnostic tool. Gottlieb SM, et al. **J Child Neurol** 1996 Sep;11(5):419–22

Increased arterial intima-media thickness in childhood-onset growth hormone deficiency. Capaldo B, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1378–81

Carotid intima-media thickening and in vivo LDL oxidation in patients with essential hypertension. Marchesi E, et al. **J Hum Hypertens** 1996 Sep;10(9):577–82

Left ventricular concentric remodelling and carotid structural changes in essential hypertension. Cuspidi C, et al. **J Hypertens** 1996 Dec;14(12):1441–6

Longitudinal association of ambulatory pulse pressure with left ventricular mass and vascular hypertrophy in essential hypertension. Khattar RS, et al. **J Hypertens** 1997 Jul; 15(7):737–43

Surface coil phased arrays for high-resolution imaging of the carotid arteries. Hayes CE, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):109–12

Occipital lobe infarction from a carotid artery embolic source. Balcer LJ, et al. **J Neuroophthalmol** 1996 Mar; 16(1):33–5

Sinus skeletonization [letter; comment] D'Aliberti G, et al. **J Neurosurg** 1996 Oct;85(4):738–40. Comment on: J Neurosurg 1996 Mar;84(3):514–7.

Anti-VLA-4 antibody reduces intimal hyperplasia in the endarterectomized carotid artery in nonhuman primates. Lumsden AB, et al. **J Vasc Surg** 1997 Jul;26(1):87–93

3D gadolinium-enhanced MR angiography of the carotid arteries. Cloft HJ, et al. **Magn Reson Imaging** 1996; 14(6):593–600

Magnetic resonance carotid angiography of the neck. Clinical implications. Rosovsky MA, et al. **Neuroimaging Clin N Am** 1996 Nov;6(4):863–74 (36 ref.)

Carotid MRA—what advantages do the turbo field-echo and 3D phase-contrast sequences offer? Benjamin MS, et al. **Neuroradiology** 1997 Jul;39(7):469–73

Carotid magnetic resonance angiography: improved image quality with dual 3-inch surface coils. Faro SH, et al. **Neuroradiology** 1996 Jul;38(5):403–8

Cerebral cortical nerve cells in extracranial arterial diversion. Fateev IN. **Neurosci Behav Physiol** 1996 Jul–Aug; 26(4):383–6

Remodelling of septal branch of coronary artery and carotid artery in L-NAME treated rats. Kristek F, et al. **Physiol Res** 1996;45(4):329–33

Arterial imaging: comparison of high-resolution US and MR imaging with histologic correlation. Martin AJ, et al. **Radiographics** 1997 Jan–Feb;17(1):189–202

Relationship between carotid intima-media thickness and symptomatic and asymptomatic peripheral arterial disease. The Edinburgh Artery Study. Allan PL, et al. **Stroke** 1997 Feb;28(2):348–53

Delayed improvement in carotid artery diameter after carotid angioplasty. Crawley F, et al. **Stroke** 1997 Mar;28(3):574–9

Microemboli during carotid angiography. Association with stroke risk factors or subsequent magnetic resonance imaging changes? Gerraty RP, et al. **Stroke** 1996 Sep; 27(9):1543–7

Carotid plaque morphology and clinical events. Hatsukami TS, et al. **Stroke** 1997 Jan;28(1):95–100

Prevalence and determinants of carotid atherosclerosis in healthy postmenopausal women. Lassila HC, et al. **Stroke** 1997 Mar;28(3):513–7

Prevalence of asymptomatic carotid atherosclerotic lesions detected by high-resolution ultrasonography and its relation to cardiovascular risk factors in the general population of a Japanese city: the Suita study. Mannami T, et al. **Stroke** 1997 Mar;28(3):518–25

Carotid artery intima-media thickness in elderly patients with NIDDM and in nondiabetic subjects. Niskanen L, et al. **Stroke** 1996 Nov;27(11):1986–92

Preclinical models of chronic rejection: promises and pitfalls. Schuurman HJ, et al. **Transplant Proc** 1997 Sep; 29(6):2624–5

[The prevalence and risk factors of carotid atherosclerosis in elderly patients] Shi Z, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):25–7 (Eng. Abstr.) **(Chi)**

[Direct carotid-cavernous fistula. Clinical, radiologic and therapeutic studies. Apropos of 49 cases] Desal H, et al. **J Neuroradiol** 1997 Aug;24(2):141–54 (Eng. Abstr.) **(Fre)**

[Microcirculatory system of paired hamster cheek pouches during occlusion of the common carotid arteries] Mikhaĭlichenko LA. **Biull Eksp Biol Med** 1996 Feb; 121(2):144–7 **(Rus)**

[The clinical aspect of the joint use of magnetic resonance tomography of the brain and magnetic resonance angiography of the extra- and intracranial arteries in patients with arterial hypertension] Abramova NN, et al. **Ter Arkh** 1996;68(9):26–31 (Eng. Abstr.) **(Rus)**

[Dolichoectasia of multiple cranial arteries. Findings on neuroimaging and transcranial Doppler] Egido JA, et al. **Rev Neurol** 1997 Jun;25(142):872–4 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Developmental change in carotid artery blood flow waveform by component analysis in children. Kojo M, et al. **Acta Paediatr Jpn** 1995 Dec;37(6):677–86

Characteristics of stretch-release induced tension development in arterial smooth muscle. Csabina S, et al. **Acta Physiol Hung** 1995;83(4):289–98

Alpha-adrenoceptor activation induces rhythmic contractile activity in carotid arteries from young, not adult, rats. Eddinger TJ, et al. **Acta Physiol Scand** 1997 Feb; 159(2):123–9

Relation between baroreflex sensitivity and carotid artery elasticity in healthy humans. Bonyhay I, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1139–44

Smoking impairs baroreflex sensitivity in humans. Mancia G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1555–60

Effect of arterial compliance on carotid sinus baroreceptor reflex control of the circulation. Potts JT, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H988–1000

Interaction of central venous pressure, intramuscular pressure, and carotid baroreflex function. Shi X, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1359–63

Slowing of carotid-cardiac baroreflex with standing and with isometric and dynamic muscle activity. Sundblad P, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1363–9

Long-term captopril treatment restores natriuresis after carotid baroreceptor activation in the SHR. Valentin JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R70–9

Heterologous desensitization of smooth muscle to K+ depolarization: retarded stimulus-[Ca2+]i coupling. Wardle RL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1810–20

Intracarotid glucose selectively increases Fos-like immunoreactivity in paraventricular, ventromedial and dorsomedial nuclei neurons. Dunn-Meynell AA, et al. **Brain Res** 1997 Feb 14;748(1–2):100–6

Stimulation of an intracranial trigeminally-innervated structure selectively increases cerebral blood flow. Goadsby PJ, et al. **Brain Res** 1997 Mar 21;751(2):247–52

Hemodynamic strategies in blood pressure regulation during orthostatic challenge in women. Culham TL, et al. **Can J Appl Physiol** 1997 Aug;22(4):351–67

Effects of changes in blood flow rate on cell death and cell proliferation in carotid arteries of immature rabbits. Cho A, et al. **Circ Res** 1997 Sep;81(3):328–37

Flow-induced vascular remodeling in the rat carotid artery diminishes with age. Miyashiro JK, et al. **Circ Res** 1997 Sep;81(3):311–9

Nitric oxide attenuates the release of endothelium-derived hyperpolarizing factor. Bauersachs J, et al. **Circulation** 1996 Dec 15;94(12):3341–7

The role of pressure pulsatility in the carotid baroreflex control: a computer simulation study. Ursino M, et al. **Comput Biol Med** 1996 Jul;26(4):297–314

Blood flow in the carotid artery during breath-holding in relation to diving bradycardia. Pan AW, et al. **Eur J Appl Physiol** 1997;75(5):388–95

Effects of hypertension on hypercholesterolemia-induced changes in contraction of rabbit aorta and carotid artery. Moreland RS, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):55–64

Carotid artery blood flow and middle cerebral artery blood flow velocity during physical exercise. Hellström G, et al. **J Appl Physiol** 1996 Jul;81(1):413–8

Blood flow increases in common carotid artery, lower lip and palate elicited by lingual nerve stimulation in anesthetized cats. Izumi H, et al. **J Auton Nerv Syst** 1997 Feb 17;62(3):167–73

Residual strain effects on the stress field in a thick wall finite element model of the human carotid bifurcation. Delfino A, et al. **J Biomech** 1997 Aug;30(8):777–86

Convective mass transfer at the carotid bifurcation. Ma P, et al. **J Biomech** 1997 Jun;30(6):565–71

Peculiar patterns of aortic regurgitation and carotid pulse due to dysfunction of a Medtronic Hall prosthetic valve: a case report. Fukuda N, et al. **J Heart Valve Dis** 1996 May;5(3):283–5

Tyrosine phosphorylation and regulation of swine carotid artery contraction. Rembold CM, et al. **J Vasc Res** 1997 Jan–Feb;34(1):1–10

Function of cryopreserved arterial allografts under immunosuppressive protection with cyclosporine A. Vischjager M, et al. **J Vasc Surg** 1996 Nov;24(5):876–82

Measurement of flow in small vessels by magnetic resonance phase mapping techniques: an in vitro and in vivo study. Summers PE, et al. **MAGMA** 1997 Jun;5(2):173–8

Rete mirabile in humans—case report. Karasawa J, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):188–92

NK1 and CGRP receptor-mediated dilatation of the carotid arterial bed of the anaesthetized rabbit. Perren MJ, et al. **Neuropeptides** 1996 Apr;30(2):141–8

Induction of ischemic tolerance and antioxidant activity by brief focal ischemia. Toyoda T, et al. **Neuroreport** 1997 Mar 3;8(4):847–51

Ligation of lateral carotid artery attenuates disturbance of brain function caused by subsequent cerebral ischemia in rabbits. Wang Y, et al. **Neurosci Lett** 1996 Nov 1; 218(2):119–22

Nitric oxide is the mediator of both endothelium-dependent relaxation and hyperpolarization of the rabbit carotid artery. Cohen RA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4193–8

Hemodynamic imaging with pulsatility-index and resistive-index color Doppler US. Lin GS, et al. **Radiology** 1997 Sep;204(3):870–3

Skills of lay people in checking the carotid pulse. Bahr J, et al. **Resuscitation** 1997 Aug;35(1):23–6

Checking the carotid pulse check: diagnostic accuracy of first responders in patients with and without a pulse. Eberle B, et al. **Resuscitation** 1996 Dec;33(2):107–16

PHYSIOPATHOLOGY

An autocrine system for C-type natriuretic peptide within rat carotid neointima during arterial repair. Brown J, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2919–31

Derivation of the ascending aortic-carotid pressure transfer function with an arterial model. Karamanoglu M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2399–404

The role of carotid bruit in screening for carotid stenosis [letter] Rea T. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):657–8

Effect of verapamil on intimal thickening and vascular reactivity in the collared carotid artery of the rabbit. Ustünes L, et al. **Br J Pharmacol** 1996 Aug;118(7):1681–8

Oxygen-derived free radicals contribute to baroreceptor dysfunction in atherosclerotic rabbits. Li Z, et al. **Circ Res** 1996 Oct;79(4):802–11

Expression of inducible nitric oxide synthase inhibits platelet adhesion and restores blood flow in the injured artery. Yan ZQ, et al. **Circ Res** 1996 Jul;79(1):38–44

Arterial wall remodelling and stiffness in hypertension: heterogeneous aspects. London GM, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S1–5 (38 ref.)

Abnormal carotid arterial wall dynamics in symptom-free hypopituitary adults [see comments] Markussis V, et al. **Eur J Endocrinol** 1997 Feb;136(2):157–64. Comment in: Eur J Endocrinol 1997 Feb;136(2):148–9.

Time course changes of the mechanical properties of the carotid artery in renal hypertensive rats. Zanchi A, et al. **Hypertension** 1997 May;29(5):1199–203

Relationship between mechanical properties of the carotid artery wall and baroreflex function in acutely treated hypertensive patients. Carretta R, et al. **J Hypertens** 1996 Sep;14(9):1105–10

Similarities and differences in structural and functional changes of left ventricle and carotid arteries in young borderline hypertensives and in athletes. Cuspidi C, et al. **J Hypertens** 1996 Jun;14(6):759–64

Endothelial function of the mesenteric arteriole and mechanical behaviour of the carotid artery in rats with insulin resistance and hypercholesterolaemia. Zanchi A, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1463–70

Topography of cerebral infarction associated with carotid artery dissection. Steinke W, et al. **J Neurol** 1996 Apr; 243(4):323–8

Transvenous embolization of traumatic carotid cavernous fistula with mechanical detachable coils. Irie K, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):28–30

Bilateral giant intracavernous carotid artery aneurysms mimicking a cavernous sinus neoplasm--case report. Matsumoto K, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):583–5

Computer modeling of cerebral blood flow following internal carotid artery occlusion. Dickey PS, et al. **Neurol Res** 1996 Jun;18(3):259–66

Inverse relationship between sensation of effort and muscular force during recovery from pure motor hemiplegia: a single-case study. Rode G, et al. **Neuropsychologia** 1996 Feb;34(2):87–95

Predictive value of carotid artery stump pressures during carotid endarterectomy. Whitley D, et al. **Neurosurg Clin N Am** 1996 Oct;7(4):723–32 (29 ref.)

The acute effect of hyperglycaemia on vessel wall properties. Lambert J, et al. **Scand J Clin Lab Invest** 1997 Aug; 57(5):409–14

[Ultrasonic diagnosis in the area of the carotid and vertebrobasilar circulation] Pancák J, et al. **Vnitr Lek** 1996 Jul;42(7):500–2 (Eng. Abstr.) **(Slo)**

[Isolated hypoglossal nerve palsy as a manifestation of carotid artery dissection. Letter] Carod-Artal J, et al. **Rev Neurol** 1997 Feb;25(138):313–4 **(Spa)**

[Carotid cavernous fistula: endovascular therapy] Macho JM, et al. **Rev Neurol** 1996 Jan;24(125):59–64 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Interstitial iodine 125 in advanced recurrent squamous cell carcinoma of the head and neck with follow-up evaluation of carotid artery by ultrasound. Chen KY, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):955–61

RADIOGRAPHY

Completion angiography, is it really necessary? Ricotta JJ, et al. **Am J Surg** 1997 Aug;174(2):181–4

Preoperative testing before carotid endarterectomy: a survey of vascular surgeons' attitudes. Dawson DL, et al. **Ann Vasc Surg** 1997 May;11(3):264–72

Accuracy of duplex sonography before carotid endarterectomy--a comparison with angiography. Hansen F, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):331–6

Evaluation of colour images printed by a thermal dye diffusion process. Deldinne M, et al. **Eur Radiol** 1996; 6(5):762–4

Selective carotid angiography during cross-clamping of the descending thoracic aorta in pigs. Strømholm T, et al. **Int Angiol** 1996 Sep;15(3):263–7

Carotid endarterectomy without arteriography. Ebell MH. **J Fam Pract** 1997 Jun;44(6):534

Contrast-enhanced magnetic resonance angiography of carotid arterial wall in pigs. Lin W, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):183–90

The size of territorial brain infarction on CT relates to the degree of internal carotid artery obstruction. Lodder J, et al. **J Neurol** 1996 Apr;243(4):345–9

Blunt carotid injury [letter] Punjabi AP, et al. **J Trauma** 1996 Dec;41(6):1077–8

Computed tomography angiography. Marks MP. **Neuroimaging Clin N Am** 1996 Nov;6(4):899–909 (22 ref.)

Dural caroticocavernous fistula with both ophthalmic arteries arising from middle meningeal arteries. Watanabe A, et al. **Neuroradiology** 1996 Nov;38(8):806–8

Transvenous embolization of high flow carotid cavernous fistula: a case report. Ohkawa M, et al. **Radiat Med** 1996 May-Jun;14(3):163–6

Microemboli during carotid angiography. Association with stroke risk factors or subsequent magnetic resonance imaging changes? Gerraty RP, et al. **Stroke** 1996 Sep; 27(9):1543–7

[Study of the carotid artery bifurcation using a helical scanner] Leclerc X, et al. **J Neuroradiol** 1997 Jun;24(1):11–6 (Eng. Abstr.) **(Fre)**

SURGERY

The value of carotid stump pressure and EEG monitoring in predicting carotid cross-clamping intolerance. Lacroix H, et al. **Acta Chir Belg** 1996 Nov-Dec;96(6):269–72

The modification of the new type of end-to-side anastomosis between carotid arteries in rats: a technical and scanning electron microscopic study. Imer M, et al. **Acta Neurochir (Wien)** 1996;138(10):1246–9

Cerebral revasculization in aortitis with occluded bilateral common carotid and left vertebral arteries. Takagi Y, et al. **Acta Neurochir (Wien)** 1997;139(4):375–6

Arch growth after staged repair of interrupted aortic arch using carotid artery interposition. Hakimi M, et al. **Ann Thorac Surg** 1997 Aug;64(2):503–7

Phosphorylcholine coating of ePTFE grafts reduces neointimal hyperplasia in canine model. Chen C, et al. **Ann Vasc Surg** 1997 Jan;11(1):74–9

Subclavian-carotid bypass to an "isolated" carotid bifurcation: a retrospective analysis. Sullivan TM. **Ann Vasc Surg** 1996 May;10(3):283–9

Modulation of tissue factor protein expression in experimental venous bypass grafts. Channon KM, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1313–9

Transcranial Doppler detected cerebral microembolism following carotid endarterectomy. High microembolic signal loads predict postoperative cerebral ischaemia. Levi CR, et al. **Brain** 1997 Apr;120 (Pt 4):621–9

Anaesthesia for carotid artery surgery. Mutch WA. **Can J Anaesth** 1997 May;44(5 Pt 2):R90–100 (37 ref.) **(Eng, Fre)**

Bilateral carotid endarterectomy during the same hospital admission. Darling RC 3rd, et al. **Cardiovasc Surg** 1996 Dec;4(6):759–62

Experimental evaluation of bleeding complications, thrombogenicity and neointimal characteristics of prosthetic patch materials used for carotid angioplasty. Rhee RY, et al. **Cardiovasc Surg** 1996 Dec;4(6):746–52

Influence of external stent size on early medial and neointimal thickening in a pig model of saphenous vein bypass grafting. Izzat MB, et al. **Circulation** 1996 Oct 1;94(7):1741–5

Subclavian carotid transposition: an analysis of a clinical series and a review of the literature. Schardey HM, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):431–6 (27 ref.)

Results of carotid surgery in elderly patients. Kerdiles Y, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):327–34

Modified carotid artery transposition for repetitive arterial blood gas sampling in large animals. Orsini JA, et al. **J Invest Surg** 1997 May-Jun;10(3):125–8

Anesthesia for carotid endarterectomy: a survey. Cheng MA, et al. **J Neurosurg Anesthesiol** 1997 Jul;9(3):211–6

Carotid artery reconstruction in neonates receiving extracorporeal membrane oxygenation: a 4-year follow-up study. Western Canadian ECMO Follow-Up Group. Cheung PY, et al. **J Pediatr Surg** 1997 Apr;32(4):560–4

Chronic loading of polypropylene sutures: implications for breakage after carotid endarterectomy. Dobrin PB. **J Surg Res** 1996 Feb 15;61(1):4–10

Traumatic carotid artery dissection of restrained driver and thoracic aorta transection of unrestrained passenger in a motor vehicle accident: case report. Mason DP, et al. **J Trauma** 1997 Sep;43(3):537–40

Carotid surgery: the past is prologue. The John Homans lecture. Thompson JE. **J Vasc Surg** 1997 Jan;25(1):131–40 (68 ref.)

Carotid endarterectomy versus carotid angioplasty [see comments] Naylor AR, et al. **Lancet** 1997 Jan 18; 349(9046):203–4. Comment in: Lancet 1997 Mar 22;349(9055):880. Comment in: Lancet 1997 Mar 22;349(9055):880–1.

Transvenous embolization of traumatic carotid cavernous fistula with mechanical detachable coils. Irie K, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):28–30

Cerebral vasoconstriction after carotid surgery. Lopez-Valdes E, et al. **Neurology** 1997 Jul;49(1):303–4

The risks and benefits of carotid endarterectomy in patients with near occlusion of the carotid artery. North American Symptomatic Carotid Endarterectomy Trial (NASCET) Group. Morgenstern LB, et al. **Neurology** 1997 Apr; 48(4):911–5

Acute surgical therapeutic interventions in stroke patients. Loftus CM. **Neurosurg Clin N Am** 1997 Apr;8(2):227–36 (65 ref.)

Cost-effectiveness of carotid endarterectomy. Nussbaum ES, et al. **Neurosurgery** 1996 Feb;38(2):237–44

The effect of carotid endarterectomy on ocular blood velocity. Riiheläinen K, et al. **Ophthalmology** 1997 Apr; 104(4):672–5

Complication rates for carotid endarterectomy. A call to action [editorial] Goldstein LB, et al. **Stroke** 1997 May; 28(5):889–90

Clinical role of transcranial Doppler embolus detection monitoring after carotid endarterectomy [letter] Levi CR, et al. **Stroke** 1997 Sep;28(9):1845–6

An analysis of perioperative surgical mortality and morbidity in the asymptomatic carotid atherosclerosis study [letter; comment] Lownie SP. **Stroke** 1997 Aug;28(8):1648. Comment on: Stroke 1996 Dec;27(12):2216–24.

Cerebral oximetry during carotid endarterectomy [letter; comment] Parenti G, et al. **Stroke** 1997 Apr;28(4):878. Comment on: Stroke 1996 Jan;27(1):49–55. Comment on: Stroke 1996 Aug;27(8):1436–7.

Transcranial Doppler monitoring and causes of stroke from carotid endarterectomy. Spencer MP. **Stroke** 1997 Apr; 28(4):685–91

Bilateral increase in CO2 reactivity after unilateral carotid endarterectomy. Visser GH, et al. **Stroke** 1997 May; 28(5):899–905

Regional performance of carotid endarterectomy. Appropriateness, outcomes, and risk factors for complications. Wong JH, et al. **Stroke** 1997 May; 28(5):891–8

[Experimental study of implantation of autologous vascular endothelial cells on dacron grafts] Luo G, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):623–5 (Eng. Abstr.) **(Chi)**

[Laser-assisted microvascular anastomosis] Kurokawa Y, et al. **Rinsho Kyobu Geka** 1988 Feb;8(1):32–5 (Eng. Abstr.) **(Jpn)**

[Indications for carotid surgery] Aune S. **Tidsskr Nor Laegeforen** 1997 Feb 28;117(6):834–7 (56 ref.) (Eng. Abstr.) **(Nor)**

[The use of propofol in carotid surgery] Asuero de Lis MS, et al. **Rev Esp Anestesiol Reanim** 1997 Apr;44(4):144–9 (Eng. Abstr.) **(Spa)**

[Carotid cavernous fistula: endovascular therapy] Macho JM, et al. **Rev Neurol** 1996 Jan;24(125):59–64 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Influence of arterial allograft preparation techniques on chronic vascular rejection: a histological study. Nataf P, et al. **Transplant Proc** 1996 Oct;28(5):2890–2

Allo- and autotransplantation of carotid artery--a new model of chronic graft vessel disease: evaluation by magnetic resonance imaging and histology. Wehr S, et al. **Transplantation** 1997 Jul 15;64(1):20–7

ULTRASONOGRAPHY

Depiction of carotid plaque ulceration and other plaque-related disorders by intravascular sonography: a flow chamber study. Miskolczi L, et al. **AJNR Am J Neuroradiol** 1996 Nov-Dec;17(10):1881–90

Relation of plasma phospholipid and cholesterol ester fatty acid composition to carotid artery intima-media thickness: the Atherosclerosis Risk in Communities (ARIC) Study. Ma J, et al. **Am J Clin Nutr** 1997 Feb;65(2):551–9

Influence of lifestyle modification on atherosclerotic progression determined by ultrasonographic change in the common carotid intima-media thickness. Markus RA, et al. **Am J Clin Nutr** 1997 Apr;65(4):1000–4

Echographic assessment of carotid and femoral arterial structure in men with essential hypertension. Group PCVMETRA. Gariepy J, et al. **Am J Hypertens** 1996 Feb; 9(2):126–36

Ultrasonography as an aid to internal jugular vein cannulation [letter; comment] Ball DR. **Anesthesiology** 1996 Dec; 85(6):1501. Comment on: Anesthesiology 1996 Jul;85(1):43–8.

Interstitial iodine 125 in advanced recurrent squamous cell carcinoma of the head and neck with follow-up evaluation of carotid artery by ultrasound. Chen KY, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):955–61

Screening carotid ultrasonography and risk factors for stroke in coronary artery surgery patients. D'Agostino RS, et al. **Ann Thorac Surg** 1996 Dec;62(6):1714–23

Corotid endarterectomy for symptomatic carotid artery disease demonstrated by duplex ultrasound with minimal arteriographic findings. AbuRahma AF, et al. **Ann Vasc Surg** 1996 Jul;10(4):385–9

Smokeless tobacco use and atherosclerosis: an ultrasonographic investigation of carotid intima media thickness in healthy middle-aged men. Bolinder G, et al. **Atherosclerosis** 1997 Jul 11;132(1):95–103

Carotid artery and left ventricular structural relationship in asymptomatic men at risk for cardiovascular disease. Linhart A, et al. **Atherosclerosis** 1996 Nov 15;127(1):103–12

'Medical cost savings through stroke prevention from 100 consecutive new carotid duplex scans', by G.S. Lavenson and D. Sharma, Cardiovascular Surgery, 1996, 4: 753–58 [editorial] Kent KC. **Cardiovasc Surg** 1996 Dec;4(6):689–90

Medical cost savings through stroke prevention from 100 consecutive new carotid duplex scans. Lavenson GS Jr, et al. **Cardiovasc Surg** 1996 Dec;4(6):753–8

No association of menopause and hormone replacement therapy with carotid artery intima-media thickness. Atherosclerosis Risk in Communities (ARIC) Study Investigators [see comments] Nabulsi AA, et al. **Circulation** 1996 Oct 15;94(8):1857–63. Comment in: Circulation 1996 Oct 15;94(8):1809–11.

What are the indications for a carotid duplex scan? [see

comments] Holdsworth RJ, et al. **Clin Radiol** 1996 Nov; 51(11):801–3. Comment in: Clin Radiol 1997 Jun;52(6):481–2.

The extended role of carotid artery ultrasound. Sidhu PS, et al. **Clin Radiol** 1997 Sep;52(9):643–53 (150 ref.)

Potential cardioembolic sources in an elderly population without stroke. A transthoracic and transoesophageal echocardiographic study in randomly selected volunteers. Roijer A, et al. **Eur Heart J** 1996 Jul;17(7):1103–11

Accuracy of duplex sonography before carotid endarterectomy—a comparison with angiography. Hansen F, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):331–6

Association between serum sialic acid concentration and carotid atherosclerosis measured by B-mode ultrasound. The ARIC Investigators. Atherosclerosis Risk in Communities Study. Råstam L, et al. **Int J Epidemiol** 1996 Oct;25(5):953–8

Prognostic use of ultrasonography in acute non-hemorrhagic carotid stroke. Camerlingo M, et al. **Ital J Neurol Sci** 1996 Jun;17(3):215–8

Ultrasonic endarterectomy: experimental and initial clinical results in carotid stenosis. La Rosa A, et al. **J Endovasc Surg** 1994 Sep;1:25–30

Different effects of hypertension, atherosclerosis and hyperlipidaemia on arterial distensibility. Barenbrock M, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1712–7

Cardiac and carotid structure in patients with established hypertension and white-coat hypertension. Cuspidi C, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1707–11

Similarities and differences in structural and functional changes of left ventricle and carotid arteries in young borderline hypertensives and in athletes. Cuspidi C, et al. **J Hypertens** 1996 Jun;14(6):759–64

Angiotensin converting enzyme gene polymorphism and carotid atherosclerosis in a low-risk population. Dessi-Fulgheri P, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1593–6

Reproducibility of ultrasound assessment of common carotid and femoral artery compliance and distensibility in the anesthetized rat. Mircoli L, et al. **J Hypertens** 1995 Dec; 13(12 Pt 2):1689–94

Vascular changes in hypertensive patients with different left ventricular geometry. Pierdomenico SD, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1701–6

Measurement of volume flow with time domain and M-mode imaging: in vitro and in vivo validation studies. Harrington K, et al. **J Ultrasound Med** 1996 Oct;15(10):715–20

Duplex imaging findings predict stenosis after carotid endarterectomy. Golledge J, et al. **J Vasc Surg** 1997 Jul; 26(1):43–8

Relationship between intraoperative color-flow duplex findings and early restenosis after carotid endarterectomy: a preliminary report. Papanicolaou G, et al. **J Vasc Surg** 1996 Oct;24(4):588–95; discussion 595–6

The Multicenter Isradipine Diuretic Atherosclerosis Study (MIDAS) [letter; comment] Kaufman JL. **JAMA** 1997 Jan 22–29;277(4):297; discussion 297–8. Comment on: JAMA 1996 Sep 11;276(10):785–91.

Non-invasive assessment of cardiovascular disease in diabetes mellitus. Lehmann ED, et al. **Lancet** 1997 Jul;350 Suppl 1:SI14–9 (59 ref.)

Carotid ultrasound. Carroll BA. **Neuroimaging Clin N Am** 1996 Nov;6(4):875–97 (89 ref.)

Preoperative detection of the composition of atherosclerotic plaque in the carotid artery using ultrasonography and magnetic resonance imaging. Tenjin H, et al. **Neurol Med Chir (Tokyo)** 1997 Jul;37(7):505–10; discussion 510–1

Use of carotid ultrasound as a preoperative assessment of extracranial carotid artery blood flow and vascular anatomy. Prestigiacomo CJ, et al. **Neurosurg Clin N Am** 1996 Oct;7(4):577–87 (52 ref.)

Color Doppler imaging of normal orbital vasculature [see comments] Greenfield DS, et al. **Ophthalmology** 1995 Nov; 102(11):1598–605. Comment in: Ophthalmology 1996 Sep;103(9):1333–4.

Normal developmental changes in carotid arterial blood flow measured by Doppler flowmetry in children. Kojo M, et al. **Pediatr Neurol** 1996 May;14(4):313–6

Arterial imaging: comparison of high-resolution US and MR imaging with histologic correlation. Martin AJ, et al. **Radiographics** 1997 Jan–Feb;17(1):189–202

Evaluation and characterization of carotid plaque. Bluth EI. **Semin Ultrasound CT MR** 1997 Feb;18(1):57–65 (52 ref.)

Ethnic differences in carotid wall thickness. The Insulin Resistance Atherosclerosis Study. D'Agostino RB Jr, et al. **Stroke** 1996 Oct;27(10):1744–9

Echolucent carotid artery plaques are associated with elevated levels of fasting and postprandial triglyceride-rich lipoproteins. Grønholdt ML, et al. **Stroke** 1996 Dec; 27(12):2166–72

Reproducibility of in vivo carotid intima-media thickness measurements: a review. Kanters SD, et al. **Stroke** 1997 Mar;28(3):665–71 (48 ref.)

Clinical role of transcranial Doppler embolus detection monitoring after carotid endarterectomy [letter] Levi CR, et al. **Stroke** 1997 Sep;28(9):1845–6

Limited sensitivity of transcranial color-coded duplex sonography in the assessment of the posterior communicating artery [letter; comment] Postert T, et al. **Stroke** 1997 Jan;28(1):219–20. Comment on: Stroke 1996 Mar;27(3):486–9.

Apolipoprotein E polymorphism is associated with segment-specific extracranial carotid artery intima-media thickening. Terry JG, et al. **Stroke** 1996 Oct;27(10):1755–9

Duration of diabetes and carotid wall thickness. The Insulin Resistance Atherosclerosis Study (IRAS). Wagenknecht LE, et al. **Stroke** 1997 May;28(5):999–1005

Carotid Doppler ultrasound criteria for internal carotid artery stenosis based on residual lumen diameter calculated from en bloc carotid endarterectomy specimens [letter; comment] [published erratum appears in Stroke 1997 May;28(5):1091] Zbornikova V. **Stroke** 1997 Mar; 28(3):673–4. Comment on: Stroke 1996 Nov;27(11):1965–9.

Analysis of ultrasonic Doppler velocity data obtained in models of stenosed carotid bifurcations with irregular lesion surface. Kaluzynski K, et al. **Technol Health Care** 1997 Jul;5(3):199–206

Variability in B-mode ultrasound measurements in the atherosclerosis risk in communities (ARIC) study. Chambless LE, et al. **Ultrasound Med Biol** 1996; 22(5):545–54

Colour velocity flow measurement: in vitro validation and application to human carotid arteries. Deane CR, et al. **Ultrasound Med Biol** 1997;23(3):447–52

Feasibility of angle independent Doppler color imaging for in vivo application: preliminary study on carotid arteries. Fei DY, et al. **Ultrasound Med Biol** 1997;23(1):59–67

Reproducibility of extracranial carotid atherosclerotic lesions assessed by B-mode ultrasound: the Atherosclerosis Risk in Communities Study. Li R, et al. **Ultrasound Med Biol** 1996;22(7):791–9

An in vitro evaluation of the line pattern of the near and far walls of carotid arteries using B-mode ultrasound. Montauban van Swijndregt AD, et al. **Ultrasound Med Biol** 1996;22(8):1007–15

Assessment of temporal bias in longitudinal measurements of carotid intimal-medial thickness in the Asymptomatic Carotid Artery Progression Study (ACAPS). ACAPS Research Group. Riley WA, et al. **Ultrasound Med Biol** 1996;22(4):405–11

[White coat arterial hypertension and isolated systolic arterial hypertension: ultrasonography of the carotid arteries] Pellegrino L, et al. **G Ital Cardiol** 1997 May;27(5):443–9 (Eng. Abstr.) **(Ita)**

[A case of aortitis syndrome, in which carotid ultrasonography was a useful approach for the diagnosis] Watanabe Y, et al. **Ryumachi** 1996 Oct;36(5):753–6 (Eng. Abstr.) **(Jpn)**

CAROTID ARTERY, COMMON

Mycotic aneurysm of the carotid artery. A case report and review of the literature. Michielsen D, et al. **Acta Chir Belg** 1997 Jan–Feb;97(1):44–6 (14 ref.)

An unusual complication of emergency tracheal intubation. Ooi GC, et al. **Anaesthesia** 1997 Feb;52(2):154–8

Effects of cryopreservation on the viscoelastic properties of human arteries. Rosset E, et al. **Ann Vasc Surg** 1996 May; 10(3):262–72

C57BL/6 strain is most susceptible to cerebral ischemia following bilateral common carotid occlusion among seven mouse strains: selective neuronal death in the murine transient forebrain ischemia. Yang G, et al. **Brain Res** 1997 Mar 28;752(1–2):209–18

Carotid aneurysm: a rare cause of cervical swelling. Lyons AJ, et al. **J Oral Maxillofac Surg** 1997 Jan;55(1):77–9

[Traumatic common carotid-internal jugular fistula: positive aspect] Avrahami R, et al. **Harefuah** 1997 Jun 15; 132(12):841–3, 911 (Eng. Abstr.) **(Heb)**

[Posttraumatic carotid-cavernous fistula: diagnosis and treatment—exemplified by a patient with a fistula following a blunt head injury] Dowżenko A, et al. **Neurol Neurochir Pol** 1997 Jan–Feb;31(1):181–6 (Eng. Abstr.) **(Pol)**

ABNORMALITIES

Carotid transposition: another cause of wide retropharyngeal soft tissues. Fix TJ, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1305–7

Combined surgical and endovascular treatment of a traumatic pseudo-aneurysm of the brachiocephalic trunk with anatomical anomaly. Ruebben A, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):173–6

Aberrant common carotid artery encountered during free jejunal graft repair of oesophageal stricture. Prior MJ, et al. **J Laryngol Otol** 1997 Aug;111(8):772–4

Aneurysm of the innominate artery with aberrant origin of the left carotid artery. Case report. Villegas-Cabello O, et al. **Tex Heart Inst J** 1996;23(4):298–300

ANATOMY & HISTOLOGY

Association between intima-media thickness and wall shear stress in common carotid arteries in healthy male subjects. Gnasso A, et al. **Circulation** 1996 Dec 15;94(12):3257–62

Superior thyroid artery arising from the common carotid artery. Akyol MU, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):701

DRUG EFFECTS

Effects of locally administration of argatroban using a hydrogel-coated balloon catheter on intimal thickening induced by balloon injury. Imanishi T, et al. **Jpn Circ J** 1997 Mar;61(3):256–62

Operational characteristics of the 5-HT1-like receptors mediating external carotid vasoconstriction in vagosympathectomized dogs. Close resemblance to the 5-HT1D receptor subtype. Villalón CM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):550–6

Proinflammatory activity on rat carotid endothelium of albumins obtained by different procedures. Zúñiga A, et al. **Thromb Res** 1997 May 1;86(3):243–54

[Changes in the blood circulation in the middle cerebral and common carotid arteries of rats under the influence of flunarizine] Semkina GA, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):28–31 (Eng. Abstr.) **(Rus)**

INJURIES

Cytotoxic effect of photodynamic therapy with Photofrin II on intimal hyperplasia. Eton D, et al. **Ann Vasc Surg** 1996 May;10(3):273–82

Vitamin D3 exacerbates intimal hyperplasia in balloon-injured arteries. Lamawansa MD, et al. **Br J Surg** 1996 Aug;83(8):1101–3

Temporal expression of c-fos mRNA following balloon injury in the rat common carotid artery. Mills CJ, et al. **Cardiovasc Res** 1996 Nov;32(5):954–61

Carotid arterial trauma: assessment with the Glasgow Coma Scale (GCS) as a guide to surgical management. Teehan EP, et al. **Cardiovasc Surg** 1997 Apr;5(2):196–200 (27 ref.)

Hemidystonia secondary to carotid artery gunshot injury. Krauss JK, et al. **Childs Nerv Syst** 1997 May;13(5):285–8

Stimulated activation of platelet-derived growth factor receptor in vivo in balloon-injured arteries: a link between angiotensin II and intimal thickening. Abe J, et al. **Circulation** 1997 Sep 16;96(6):1906–13

Estrogen restores endothelial cell function in an experimental model of vascular injury. White CR, et al. **Circulation** 1997 Sep 2;96(5):1624–30

Ultrastructural localisation of nitric oxide synthase, endothelin and binding sites of lectin (from Bandeirea simplicifolia) in the rat carotid artery after balloon catheter injury. Loesch A, et al. **J Anat** 1997 Jan;190 (Pt 1):93–104

Common carotid artery and tracheal injury from shoulder strap seat belt. McConnell EJ, et al. **J Trauma** 1997 Jul; 43(1):150–2

Occult carotid injury due to a gunshot wound of the neck [letter; comment] Mason RT. **J Trauma** 1997 Feb; 42(2):345–6. Comment on: J Trauma 1996 Sep;41(3):536–8.

Carotid injury: postrevascularization hemorrhagic infarction. Murray JA, et al. **J Trauma** 1996 Oct;41(4):760–2

Fogarty and percutaneous transluminal coronary angioplasty balloon injury induce comparable damage to the arterial wall but lead to different healing responses. Doornekamp FN, et al. **J Vasc Surg** 1996 Nov;24(5):843–50

Management of injuries to branches of the aortic arch. Rhee RY, et al. **Semin Vasc Surg** 1996 Jun;9(2):147–55

[Insertion of autografts after acute damage of the common carotid artery. Experimental microvascular anastomoses after balloon dilatation] Friedrich RE, et al. **Unfallchirurgie** 1997 Feb;23(1):1–9 (Eng. Abstr.) **(Ger)**

INNERVATION

Effects of deferoxamine and sympathectomy on endothelin-1-induced contraction and acetylcholine-induced relaxation following subarachnoid hemorrhage in carotid artery. Sarioğlu Y, et al. **Gen Pharmacol** 1997 Jan;28(1):145–51

METABOLISM

cDNA cloning of human allograft inflammatory factor-1: tissue distribution, cytokine induction, and mRNA expression in injured rat carotid arteries. Autieri MV. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):29–37

Arterial fatty lesions have increased uptake of chylomicron remnants but not low-density lipoproteins. Proctor SD, et al. **Coron Artery Dis** 1996 Mar;7(3):239–45

PATHOLOGY

Influence of local delivery of the protein tyrosine kinase receptor inhibitor tyrphostin-47 on smooth-muscle cell proliferation in a rat carotid balloon-injury model. Gottsauner-Wolf M, et al. **Am Heart J** 1997 Mar; 133(3):329–34

Common carotid intima-media thickness as an indicator of atherosclerosis at other sites of the carotid artery. The Rotterdam Study. Bots ML, et al. **Ann Epidemiol** 1996 Mar; 6(2):147–53

Role of NO in flow-induced remodeling of the rabbit common carotid artery. Tronc F, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct;16(10):1256–62

Intermediate-density lipoproteins and progression of carotid arterial wall intima-media thickness. Hodis HN, et al. **Circulation** 1997 Apr 15;95(8):2022–6

Optimal dose and duration of heparin for inhibition of intimal hyperplasia. Ao PY, et al. **Int Angiol** 1997 Jun;16(2):94–100

Left, right, near or far wall common carotid intima-media thickness measurements: associations with cardiovascular disease and lower extremity arterial atherosclerosis. Bots ML, et al. **J Clin Epidemiol** 1997 Jul;50(7):801–7

Geometric dimension changes with carotid endarterectomy reconstruction. Archie JP Jr. **J Vasc Surg** 1997 Mar;

25(3):488–98
Effect of intraluminal pressure on the intimal thickening in injured rabbit carotid arteries in an organ-culture system. Horiuchi H, et al. **Jpn Circ J** 1997 Aug;61(8):704–8
Compensatory increase in common carotid artery diameter. Relation to blood pressure and artery intima-media thickness in older adults. Cardiovascular Health Study. Polak JF, et al. **Stroke** 1996 Nov;27(11):2012–5
[Carotid intima-media thickness and the occurrence of plaque in centenarians—data from the Tokyo Centenarian Study] Homma S, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb; 34(2):139–46 (Eng. Abstr.) **(Jpn)**
[Risk factors related to the wall thickness of the common carotid artery in elderly patients] Kawamoto R, et al. **Nippon Ronen Igakkai Zasshi** 1996 Nov;33(11):835–9 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Altered vascular function after adenovirus-mediated overexpression of endothelial nitric oxide synthase. Ooboshi H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H265–70
Diabetic human platelets release a substance that inhibits platelet-mediated vasodilation. Oskarsson HJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H371–9
Total and regional cerebral blood flow during recovery from G-LOC. Werchan PM, et al. **Aviat Space Environ Med** 1996 Aug;67(8):751–8
Ischemic tolerance in moderately symptomatic gerbils after unilateral carotid occlusion. Kitagawa K, et al. **Brain Res** 1996 Apr 15;716(1–2):39–46
Association between intima-media thickness and wall shear stress in common carotid arteries in healthy male subjects. Gnasso A, et al. **Circulation** 1996 Dec 15;94(12):3257–62
Female sex hormones do not influence arterial wall properties during the normal menstrual cycle. Willekes C, et al. **Clin Sci (Colch)** 1997 May;92(5):487–91
Haemodynamic changes with the laryngeal mask airway—off the cuff. Colbert S, et al. **Eur J Anaesthesiol** 1997 Sep; 14(5):514–7
Blood flow acceleration in the carotid and brachial arteries of healthy volunteers: respective contributions of cardiac performance and local resistance. Chemla D, et al. **Fundam Clin Pharmacol** 1996;10(4):393–9
Biomechanics of human common carotid artery and design of novel hybrid textile compliant vascular grafts. Gupta BS, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):341–9
Heart rate-dependence of arterial distensibility in vivo. Mangoni AA, et al. **J Hypertens** 1996 Jul;14(7):897–901
The dorsal facial area of the medulla in cats: inhibitory action of serotonin on glutamate release in regulating common carotid blood flow. Li HT, et al. **Neurosci Lett** 1996 Jun 7;210(3):193–6
Laser-Doppler flux in the normal and atherosclerotic carotid artery wall in normotensive and hypertensive subjects. Incandela L, et al. **Panminerva Med** 1996 Dec;38(4):203–6
Variation of common carotid artery elasticity with intimal-medial thickness: the ARIC Study. Atherosclerosis Risk in Communities. Riley WA, et al. **Ultrasound Med Biol** 1997;23(2):157–64
Neural network analysis of Doppler ultrasound blood flow signals: a pilot study. Wright IA, et al. **Ultrasound Med Biol** 1997;23(5):683–90
[The role of endothelial nitric oxide in neurogenic contractions of the carotid artery in rabbits during cooling] Kyselá S, et al. **Bratisl Lek Listy** 1997 Feb;98(2):80–5 (Eng. Abstr.) **(Slo)**

PHYSIOPATHOLOGY

Sequential changes in cerebrovascular reserve capacity in three-vessel occlusion rats. Kawata Y, et al. **Brain Res** 1996 Nov 11;739(1–2):330–4
Mechanical stress of the carotid artery at the early phase of spontaneous hypertension in rats. Cunha RS, et al. **Hypertension** 1997 Apr;29(4):992–8
Unsteady flow in a rigid 3-D model of the carotid artery bifurcation. Rindt CC, et al. **J Biomech Eng** 1996 Feb; 118(1):90–6
Endothelium-dependent vasodilatation and distensibility of large arteries in chronic haemodialysis patients. van Guldener C, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:14–8
[Studies on residual cardiovascular dysfunction in patients receiving long-term antihypertensive treatment of calcium channel blockers: with special reference to left ventricular hypertrophy, and impairments of left ventricular diastolic function and carotid arterial distensibility] Shiojima K, et al. **J Cardiol** 1997 Aug;30(2):73–8 (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

Effect of gamma knife irradiation on relaxation and contraction responses of the common carotid artery in the rat. Takahashi S, et al. **Acta Neurochir (Wien)** 1996; 138(8):992–1001

RADIOGRAPHY

CT angiography of carotid bifurcation: artifacts and pitfalls in shaded-surface display. Takahashi M, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):813–7
Use of panoramic radiography among an ambulatory dental population to detect patients at risk of stroke. Carter LC, et al. **J Am Dent Assoc** 1997 Jul;128(7):977–84
Foreign body in the throat migrating through the common carotid artery. Osinubi OA, et al. **J Laryngol Otol** 1996 Aug;110(8):793–5
Striking back at stroke [editorial] Laskin DM. **J Oral Maxillofac Surg** 1997 Jan;55(1):1
False aneurysm of the common carotid artery and injury of the brachial plexus due to trauma inflicted by an air gun pellet. van Alphen JC, et al. **J Trauma** 1996 Dec; 41(6):1044–6
Clinics in diagnostic imaging (15). Carotid body tumour. Lam PW, et al. **Singapore Med J** 1996 Aug;37(4):430–2 (10 ref.)
[Angiographical evaluation of extracranial carotid artery: comparison between Japanese and Hungarian] Toyota A, et al. **No To Shinkei** 1997 Jul;49(7):633–7 (Eng. Abstr.) **(Jpn)**

SURGERY

The proximal carotid-vertebral bypass. Scholz H, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):214–6
Isolated coronary artery transplantation in pigs: a new model to study transplantation arteriosclerosis and humoral rejection. Tixier DB, et al. **J Heart Lung Transplant** 1996 Sep;15(9):919–27
Carotid artery and jugular vein ligation with and without hypoxia in the rat. Klein MD, et al. **J Pediatr Surg** 1997 Apr;32(4):565–70
Functional and histological differences in autogenous and allogenic vein grafts: two different vasculopathies? Davies MG, et al. **J Surg Res** 1997 Apr;69(1):14–22
Oral monoterpene therapy (perillyl alcohol) reduces vein graft intimal hyperplasia. Fulton GJ, et al. **J Surg Res** 1997 Apr;69(1):128–34
Carotid injury: postrevascularization hemorrhagic infarction. Murray JA, et al. **J Trauma** 1996 Oct;41(4):760–2
Regarding "The endarterectomy-produced common carotid artery step: a harbinger of early emboli and late restenosis" [letter; comment] Stoney RJ. **J Vasc Surg** 1997 May; 25(5):958–9. Comment on: J Vasc Surg 1996 May;23(5):932–9.
Carotid resection and reconstruction for advanced cervical cancer. Katsuno S, et al. **Laryngoscope** 1997 May; 107(5):661–4
Contralateral external carotid-middle cerebral artery bypass for carotid artery resection. Numata T, et al. **Laryngoscope** 1997 May;107(5):665–70
Surgical management of occlusive disease of the common carotid artery. Chaikof EL, et al. **Semin Vasc Surg** 1996 Jun;9(2):111–7
Exposure of the brachiocephalic vessels. Rutherford RB. **Semin Vasc Surg** 1996 Jun;9(2):77–83

ULTRASONOGRAPHY

Negative feelings (discontent) predict progress of intima-media thickness of the common carotid artery in treated hypertensive men at high cardiovascular risk. Agewall S, et al. **Am J Hypertens** 1996 Jun;9(6):545–50
Blood flow in common carotid and vertebral arteries in patients with sudden deafness. Ohinata Y, et al. **Ann Otol Rhinol Laryngol** 1997 Jan;106(1):27–32
A simple and reproducible method for assessing intimal-medial thickness of the common carotid artery. Sidhu PS, et al. **Br J Radiol** 1997 Jan;70:85–9
Common carotid intima-media thickness and risk of stroke and myocardial infarction: the Rotterdam Study. Bots ML, et al. **Circulation** 1997 Sep 2;96(5):1432–7
Carotid intima-media thickness in hyperlipidemic type I and type II diabetic patients. Kanters SD, et al. **Diabetes Care** 1997 Mar;20(3):276–80
The ultrasonic evaluation of the carotid intima-media thickness and its relation to risk factors of atherosclerosis in normal and diabetic population. el-Barghouti N, et al. **Int Angiol** 1997 Mar;16(1):50–4
Relation of hemodynamic volume load to arterial and cardiac size. Jones EC, et al. **J Am Coll Cardiol** 1997 May; 29(6):1303–10
Identification of the left common carotid and left subclavian arteries by TEE [letter; comment] Skulski R, et al. **J Am Soc Echocardiogr** 1996 Nov-Dec;9(6):922. Comment on: J Am Soc Echocardiogr 1996 Jan-Feb;9(1):58–61.
Validity and reproducibility of color enhancement of B-mode ultrasound images of far wall thickness of the common carotid artery. Whalley G, et al. **J Am Soc Echocardiogr** 1996 Jul-Aug;9(4):549–55
Left, right, near or far wall common carotid intima-media thickness measurements: associations with cardiovascular disease and lower extremity arterial atherosclerosis. Bots ML, et al. **J Clin Epidemiol** 1997 Jul;50(7):801–7
Wall thickness after carotid endarterectomy in patients with paired vein and Dacron patch reconstruction. Archie JP. **J Vasc Surg** 1997 Mar;25(3):554–60
Duplex morphologic features of the reconstructed carotid artery: changes occurring more than five years after endarterectomy. Coe DA, et al. **J Vasc Surg** 1997 May; 25(5):850–6; discussion 856–7
Common carotid artery: variability of Doppler US velocity measurements. Meyer JI, et al. **Radiology** 1997 Aug; 204(2):339–41
Carotid artery volume flow: in vivo measurement with time-domain-processing US. Westra SJ, et al. **Radiology** 1997 Mar;202(3):725–9
Prediction of cerebral blood flow in fetal lambs by carotid artery ultrasonic flow transducer. Covert RF, et al. **Reprod Fertil Dev** 1996;8(1):157–62
Microalbuminuria and carotid artery intima-media thickness in nondiabetic and NIDDM subjects. The Insulin Resistance Atherosclerosis Study (IRAS). Mykkänen L, et al. **Stroke** 1997 Sep;28(9):1710–6
Carotid plaque typing by multiple-parameter ultrasonic tissue characterization. Noritomi T, et al. **Ultrasound Med Biol** 1997;23(5):643–50
A Doppler ultrasound clutter phantom. Rickey DW, et al. **Ultrasound Med Biol** 1996;22(6):747–66
Variation of common carotid artery elasticity with intimal-medial thickness: the ARIC Study. Atherosclerosis Risk in Communities. Riley WA, et al. **Ultrasound Med Biol** 1997;23(2):157–64
Reproducibility of shear rate and shear stress assessment by means of ultrasound in the common carotid artery of young human males and females. Samijo SK, et al. **Ultrasound Med Biol** 1997;23(4):583–90
Simple clinical method of average intima-media thickness measurement in the common carotid artery. Csányi A, et al. **Vasa** 1996;25(3):242–8
Pulsed wave-Doppler ultrasonographic evaluation of the common carotid artery in the resting horse: physiologic data. Cipone M, et al. **Vet Radiol Ultrasound** 1997 May-Jun; 38(3):200–6
[Carotid intima-media thickness and the occurrence of plaque in centenarians—data from the Tokyo Centenarian Study] Homma S, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb; 34(2):139–46 (Eng. Abstr.) **(Jpn)**
[Risk factors related to the wall thickness of the common carotid artery in elderly patients] Kawamoto R, et al. **Nippon Ronen Igakkai Zasshi** 1996 Nov;33(11):835–9 (Eng. Abstr.) **(Jpn)**
[A case report of thoracic aortic and common carotid artery dissecting aneurysm diagnosed by duplex ultrasound examination] Kimura K, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):348–51 (Eng. Abstr.) **(Jpn)**

VIROLOGY

Established immunity precludes adenovirus-mediated gene transfer in rat carotid arteries. Potential for immunosuppression and vector engineering to overcome barriers of immunity. Schulick AH, et al. **J Clin Invest** 1997 Jan 15;99(2):209–19

CAROTID ARTERY DISEASES

Atherosclerosis vascular damage in elderly athletes and sedentary people. Galetta F, et al. **Angiology** 1997 Jul; 48(7):623–8
Management of combined carotid and coronary artery disease. Schepens MA, et al. **Curr Opin Cardiol** 1996 Sep; 11(5):525–32 (53 ref.)
Carotid and vertebral artery dissections. Stahmer SA, et al. **Emerg Med Clin North Am** 1997 Aug;15(3):677–98 (99 ref.)
Iatrogenic rupture of internal carotid artery aneurysm. A complication of CT-guided needle biopsy of the neck. Porcellini M, et al. **G Chir** 1996 Oct;17(10):531–3
Spontaneous internal carotid artery dissection. Review. Karacagil S, et al. **Int Angiol** 1996 Dec;15(4):291–4 (55 ref.)
Extracranial carotid artery aneurysms. Neelakandhan KS, et al. **Int Angiol** 1996 Dec;15(4):316–20
Extracranial carotid artery aneurysms. Pulli R, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):339–46
Carotid artery disease practice guidelines for the general practitioner. Khalil I. **J Med Liban** 1996;44(1):16–20
Spontaneous dissection of the internal carotid artery: a nineteen-year clinical experience. Treiman GS, et al. **J Vasc Surg** 1996 Oct;24(4):597–605; discussion 605–7
Carotid artery disease in women. Hurlbert SN, et al. **Semin Vasc Surg** 1995 Dec;8(4):268–76 (78 ref.)
[Spontaneous cervical artery dissection] Kiyama M. **Ryoikibetsu Shokogun Shirizu** 1996;(14):485–7 (17 ref.) **(Jpn)**
[Aneurysms of the carotid arteries] Lotina S, et al. **Srp Arh Celok Lek** 1997 May-Jun;125(5–6):141–53 (121 ref.) (Eng. Abstr.) **(Scc)**

BLOOD

Association between plasma homocysteine and extracranial carotid arterial disease in older persons. Aronow WS, et al. **Am J Cardiol** 1997 May 15;79(10):1432–3
Serum ferritin is not a risk factor for extracranial carotid arterial disease in men and women aged > or = 60 years. Aronow WS, et al. **Am J Cardiol** 1997 Feb 15;79(4):525–6
Carotid atherosclerosis and serum lipoprotein(a) concentrations in patients with NIDDM. Yamamoto M, et al. **Diabetes Care** 1997 May;20(5):829–31
The generation of byproducts of lipid peroxidation following carotid endarterectomy. Soong CV, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):455–8
Association between serum sialic acid concentration and carotid atherosclerosis measured by B-mode ultrasound. The ARIC Investigators. Atherosclerosis Risk in Communities Study. Råstam L, et al. **Int J Epidemiol** 1996 Oct;25(5):953–8

CAROTID ARTERY DISEASES

COMPLICATIONS

Concomitant coronary and asymptomatic carotid artery disease in patients prior to myocardial revascularization. Mandák J, et al. **Acta Medica (Hradec Kralove)** 1996; 39(1):31–4

Optic nerve contact and compression by the carotid artery in asymptomatic patients. Jacobson DM, et al. **Am J Ophthalmol** 1997 May;123(5):677–83

A case of Behçet's disease with an abdominal aortic aneurysm and two aneurysms in the common carotid artery. A case report. Tuzuner A, et al. **Angiology** 1996 Dec; 47(12):1173–80

Ischaemic stroke from cerebral embolism in cephalic fibromuscular dysplasia. Tan AK, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):891–4

Spontaneous rupture of the common carotid artery with pseudoaneurysm formation. Prendergast H, et al. **Ann Emerg Med** 1997 Aug;30(2):230–3

Stroke due to arterial disease in cogenital heart disease [letter] Ganesan V, et al. **Arch Dis Child** 1997 Feb;76(2):175

Cervical carotid or vertebral artery dissection [editorial; comment] Blunt SB, et al. **BMJ** 1997 Jan 25;314(7076):243 . Comment on: BMJ 1997 Jan 25;314(7076):291–2.

Spontaneous dissection of internal carotid artery presenting as isolated posterior ischaemic optic neuropathy [letter] Tsai RK, et al. **Br J Ophthalmol** 1997 Jun;81(6):513

Case report: sequential bilateral carotid dissection leading to Raeder's syndrome. Stefani P, et al. **Br J Radiol** 1996 Dec;69(828):1184–6

Occlusion of unilateral carotid artery in Down syndrome. Gaggero R, et al. **Brain Dev** 1996 Jan–Feb;18(1):81–3

Marked hyperprolactinemia caused by carotid aneurysm. Kahn SR, et al. **Can J Neurol Sci** 1997 Feb;24(1):64–6

Carotid artery dissection in a young adult: cystic medial necrosis associated with an increased elastase content. Thal DR, et al. **Clin Neuropathol** 1997 Jul–Aug;16(4):180–4

ECT after cerebral aneurysm repair. Farah A, et al. **Convuls Ther** 1996 Sep;12(3):165–70

Coronary artery bypass grafting in a patient with total occlusion of both internal carotid arteries [letter] Ilia R, et al. **Int J Cardiol** 1997 Apr 18;59(2):215–6

Carotid artery disease in patients with retinal artery occlusion. Kimura K, et al. **Intern Med** 1996 Dec; 35(12):937–40

Ocular ischemic syndrome as initial manifestation of bilateral carotid occlusive disease. Bennett LW. **J Am Optom Assoc** 1997 Apr;68(4):250–60

Comment on "Isolated trochlear nerve palsy secondary to dural carotid–cavernous sinus fistula" by Aki K. Selky and Valerie A. Purvin (JNO 14(1): 52–54, 1994) [letter; comment] Sogg RL. **J Neuroophthalmol** 1996 Mar;16(1):69 . Comment on: J Neuroophthalmol 1994 Mar;14(1):52–4.

Cerebral microembolism and extracranial internal carotid artery dissection. Babikian VL, et al. **J Ultrasound Med** 1996 Dec;15(12):863–6

Thorotrast–associated oropharyngeal hemorrhage: treatment by means of carotid occlusion with use of flow arrest and fibered coils. Kesava PP, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):709–12

A surgeon with a nasty taste in his mouth. Schievink WI. **Lancet** 1997 Jul 26;350(9073):260

Carotid occlusive disease and stroke risk in coronary artery bypass graft surgery. Dashe JF, et al. **Neurology** 1997 Sep; 49(3):678–86

Acute subdural hematoma caused by a ruptured giant intracavernous aneurysm: case report. McLaughlin MR, et al. **Neurosurgery** 1996 Feb;38(2):388–92

Remodelling of choroidal circulation in carotid cavernous sinus fistula. Sutoh N, et al. **Retina** 1996;16(6):497–504

Carotid artery aneurysm as a rare cause for aspiration pneumonia. A case report. Decrinis M, et al. **Vasa** 1996; 25(4):362–7

[Associated carotid and coronary lesions: carotid endoluminal angioplasty before coronary surgery] Babatasi G, et al. **Presse Med** 1996 Nov 9;25(34):1623–6 (Eng. Abstr.) **(Fre)**

[Retrospective analysis of cerebrovascular disorders in patients with lesions of the major arteries of the head] Dzhibladze DN, et al. **Klin Med (Mosk)** 1996;74(3):33–5 (Eng. Abstr.) **(Rus)**

[Disordered visual functions in patients with a traumatic carotid–cavernous fistula] Ryzhova IP. **Lik Sprava** 1997 Mar–Apr;(2):25–31 (44 ref.) **(Rus)**

CONGENITAL

Congenital absence and aberrant course of the internal carotid artery. Takahashi S, et al. **Eur Radiol** 1996; 6(5):650–4

[Morphologic anomalies of the extracranial internal carotid artery. Our experience] Carcoforo P, et al. **Minerva Cardioangiol** 1997 Jan–Feb;45(1–2):37–41 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Carotid plaque features on angiography and asymptomatic cerebral microembolism. Orlandi G, et al. **Acta Neurol Scand** 1997 Sep;96(3):183–6

Radiologic–clinical correlation. Junctional visual field loss. Lee AG, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul; 18(6):1171–4

A case report of carotid artery dissection presenting as cluster headache. Rosebraugh CJ, et al. **Am J Med** 1997 Apr; 102(4):418–9

Horner syndrome as an isolated manifestation of an intrapetrous internal carotid artery dissection. Bilbao R, et al. **Am J Ophthalmol** 1997 Apr;123(4):562–4

Case report: sequential bilateral carotid dissection leading to Raeder's syndrome. Stefani P, et al. **Br J Radiol** 1996 Dec;69(828):1184–6

Pontine venous congestion caused by dural carotid–cavernous fistula: report of two cases. Uchino A, et al. **Eur Radiol** 1997;7(3):405–8

Internal carotid occlusion associated with migraine syndrome: a case study of a 22–year–old female. Micieli G, et al. **Funct Neurol** 1996 Jan–Feb;11(1):45–51

Spontaneous bilateral internal carotid artery dissection and migraine: a potential diagnostic delay. Duyff RF, et al. **Headache** 1997 Feb;37(2):109–12

"Pseudoocclusion" of the internal carotid artery: a pitfall on intracranial MRA. Okamoto K, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):831–3

Nontraumatic intracranial internal carotid artery dissection: a case report. Newton KI, et al. **J Emerg Med** 1997 Jan–Feb;15(1):19–22

Atherosclerosis of the carotid artery: evaluation by magnetic resonance angiography. Wildy KS, et al. **J Magn Reson Imaging** 1996 Sep–Oct;6(5):726–32

Carotid artery dissections presenting as isolated posterior cerebral artery infarctions. Küker W, et al. **J Neurol** 1997 May;244(5):324–7

MRI– and MRA–guided therapy of carotid and vertebral artery dissections. Jacobs A, et al. **J Neurol Sci** 1997 Mar 20;147(1):27–34

Unruptured posterior communicating artery aneurysm masquerading as migraine: report of two cases. Rahman NU, et al. **JPMA J Pak Med Assoc** 1997 Jun;47(6):172–4

Nonatheromatous carotid artery disease. Russo CP, et al. **Neuroimaging Clin N Am** 1996 Nov;6(4):811–30 (67 ref.)

Topographic anatomy of paraclinoid carotid artery aneurysms: usefulness of MR angiographic source images. Nagasawa S, et al. **Neuroradiology** 1997 May;39(5):341–3

Non–invasive diagnosis of traumatic occlusion of extracranial internal carotid artery by magnetic resonance angiography. Göçer AI, et al. **Neurosurg Rev** 1996;19(4):281–3

Diagnosis of carotid–cavernous fistulas with magnetic resonance angiography—demonstrating the draining veins utilizing 3–D time–of–flight and 3–D phase–contrast techniques. Ikawa F, et al. **Neurosurg Rev** 1996;19(1):7–12

Arterial imaging: comparison of high–resolution US and MR imaging with histologic correlation. Martin AJ, et al. **Radiographics** 1997 Jan–Feb;17(1):189–202

Laser Doppler flux in normal and arteriosclerotic carotid artery wall. Belcaro G, et al. **Vasa** 1996;25(3):221–5

[Spontaneous dissection of the internal carotid artery: apropos of a case] Lefebvre P, et al. **Rev Med Brux** 1996 Oct;17(5):342–5 (18 ref.) (Eng. Abstr.) **(Fre)**

[Dural carotid–cavernous sinus fistulas: clinical aspects, diagnosis and therapeutic intervention] Hoops JP, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):392–7 (Eng. Abstr.) **(Ger)**

[CT and PRI angiographic findings in dissection of the neck arteries] Link J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):244–8 (Eng. Abstr.) **(Ger)**

[Pseudo–occlusions of the internal carotid artery] Azzarone M, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):621–5; discussion 626 (Eng. Abstr.) **(Ita)**

[Spontaneous carotid–cavernous fistula: correlations between clinical findings and venous drainage] Calzolari F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):358–66 (14 ref.) (Eng. Abstr.) **(Ita)**

[The late results of the surgical treatment of gigantic carotid–ophthalmic aneurysms of the internal carotid artery (2 cases)] Tropinskaia OF, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Oct–Dec; (4):35–7 (10 ref.) **(Rus)**

DRUG THERAPY

Study design and baseline characteristics of the study to evaluate carotid ultrasound changes in patients treated with ramipril and vitamin E: SECURE. Lonn EM, et al. **Am J Cardiol** 1996 Oct 15;78(8):914–9

Limb–shaking carotid transient ischemic attacks successfully treated with modification of the antihypertensive regimen. Leira EC, et al. **Arch Neurol** 1997 Jul;54(7):904–5

[An unusual combination of carotid artery–cavernous sinus fistula and sinus thrombosis. Successful therapy with anticoagulation] Yousry TA, et al. **Nervenarzt** 1997 Feb; 68(2):135–8 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Association of extracranial carotid arterial disease, prior atherothrombotic brain infarction, systemic hypertension, and left ventricular hypertrophy with the incidence of new atherothrombotic brain infarction at 45–month follow–up in 1,482 older patients. Aronow WS, et al. **Am J Cardiol** 1997 Apr 1;79(7):991–3

Hopelessness and 4–year progression of carotid atherosclerosis. The Kuopio Ischemic Heart Disease Risk Factor Study. Everson SA, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1490–5

Workplace demands, economic reward, and progression of carotid atherosclerosis. Lynch J, et al. **Circulation** 1997 Jul 1;96(1):302–7

Prevalence of carotid atherosclerosis in middle–aged hypertensive and control subjects. A cross–sectional systematic study with duplex ultrasound. Päivänsalo M, et al. **J Hypertens** 1996 Dec;14(12):1433–9

Associations between carotid atherosclerosis and high factor VIII activity, dyslipidemia, and hypertension. Pan WH, et al. **Stroke** 1997 Jan;28(1):88–94

[Is there a relationship between sex, age, Lp(a) blood levels, lipid values, and atherosclerotic carotid lesions?] Postorino G, et al. **Minerva Med** 1996 Sep;87(9):379–83 (Eng. Abstr.) **(Ita)**

ETHNOLOGY

Hypertension and subclinical carotid artery atherosclerosis in blacks and whites. The Atherosclerosis Risk in Communities Study. ARIC Investigators [see comments] Arnett DK, et al. **Arch Intern Med** 1996 Sep 23; 156(17):1983–9. Comment in: Arch Intern Med 1996 Sep 23;156(17):1922–3.

Ethnic differences in carotid wall thickness. The Insulin Resistance Atherosclerosis Study. D'Agostino RB Jr, et al. **Stroke** 1996 Oct;27(10):1744–9

Race–ethnicity and determinants of carotid atherosclerosis in a multiethnic population. The Northern Manhattan Stroke Study. Sacco RL, et al. **Stroke** 1997 May; 28(5):929–35

ETIOLOGY

Traumatic carotid artery dissection. Opeskin K. **Am J Forensic Med Pathol** 1997 Sep;18(3):251–7 (44 ref.)

Spontaneous rupture of the common carotid artery with pseudoaneurysm formation. Prendergast H, et al. **Ann Emerg Med** 1997 Aug;30(2):230–3

Dual–inflow great vessel aneurysm: delayed presentation after penetrating trauma. Rossbach MM, et al. **Ann Thorac Surg** 1997 Jan;63(1):238–40

Pseudoaneursym of the external carotid artery after tonsillectomy. A rare complication. Karas DE, et al. **Arch Otolaryngol Head Neck Surg** 1997 Mar;123(3):345–7

Smokeless tobacco use and atherosclerosis: an ultrasonographic investigation of carotid intima media thickness in healthy middle–aged men. Bolinder G, et al. **Atherosclerosis** 1997 Jul 11;132(1):95–103

Prevalence of carotid atherosclerosis in hypertension: preliminary baseline data from the European Lacidipine Study on Atherosclerosis (ELSA). Zanchetti A. **Blood Press Suppl** 1996;4:30–5

Carotid dissection causing stroke in a child with migraine [see comments] Ganesan V, et al. **BMJ** 1997 Jan 25; 314(7076):291–2. Comment in: BMJ 1997 Jan 25;314(7076):243.

Cervical artery dissections. Leys D, et al. **Eur Neurol** 1997; 37(1):3–12 (134 ref.)

Fatal occlusion of the left coronary main stem by a fragment from the femoral artery: a previously unreported complication of cardiac catheterization. Veijola M, et al. **Forensic Sci Int** 1997 Aug 4;88(2):111–6

Traumatic carotid cavernous sinus fistula following a gunshot wound to the face. Wallick K 4th, et al. **J Emerg Med** 1997 Jan–Feb;15(1):23–9 (17 ref.)

Psychological stress and the progression of carotid artery disease. Barnett PA, et al. **J Hypertens** 1997 Jan;15(1):49–55

Progressive cerebral occlusive disease after hypothalamic astrocytoma radiation therapy. Sinsawaiwong S, et al. **J Med Assoc Thai** 1997 May;80(5):338–42

Internal carotid artery dissection following bronchoscopy [letter] Mercier B, et al. **J Neurol** 1996 Apr;243(4):368–9

Different criteria for pharmacological and surgical treatment of hypertension [letter] Ligtenberg JJ, et al. **Lancet** 1997 Jul 26;350(9073):294–5

Stroke following central venous cannulation [letter] [see comments] Mainland PA, et al. **Lancet** 1997 Mar 29; 349(9056):921. Comment in: Lancet 1997 Jun 7;349(9066):1699.

An unfortunate consequence of being tickled. Nance J, et al. **Lancet** 1997 Apr 19;349(9059):1142

Stroke after a visit to the hairdresser [letter] Nwokolo N, et al. **Lancet** 1997 Sep 20;350(9081):866

Carotid–artery dissection after a prolonged telephone call [letter] Mourad JJ, et al. **N Engl J Med** 1997 Feb 13; 336(7):516

Carotid pseudoaneurysm from inadvertent carotid artery catheterization for haemodialysis. Parry W, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1853–5

Spontaneous dissections [letter; comment] Gilbert GJ. **Neurology** 1997 May;48(5):1475. Comment on: Neurology 1996 Aug;47(2):552–6.

Traumatic indirect carotid–cavernous fistula: report of two cases. Jacobson BE, et al. **Neurosurgery** 1996 Dec; 39(6):1235–7; discussion 1237–8

Recovery from rhinocerebral mucormycosis with carotid artery occlusion: a pediatric case and review of the literature. Shah PD, et al. **Pediatr Infect Dis J** 1997 Jan; 16(1):68–71 (27 ref.)

In vivo inhibition of platelet adhesion by a cGMP–mediated mechanism in balloon catheter injured rat carotid artery. Vemulapalli S, et al. **Pharmacology** 1996 Apr;52(4):235–42

Image interpretation session: 1996. Traumatic dissection of the internal carotid artery (mural arterial dissection).

Radiographics 1997 Jan-Feb;17(1):253-6
Relationship between insulin and carotid atherosclerosis in the general population. The Bruneck Study. Bonora E, et al. **Stroke** 1997 Jun;28(6):1147-52
Infection-associated cervical artery dissection. Three cases. Grau AJ, et al. **Stroke** 1997 Feb;28(2):453-5
Myxoma in the carotid artery. Myxomatous occlusion of internal carotid artery. Robbin NA, et al. **Stroke** 1997 Feb; 28(2):456-8
[Carotid dissection during childbirth] Bruninx G, et al. **J Mal Vasc** 1996;21(2):92-4 (Eng. Abstr.) **(Fre)**
[Traumatic common carotid-internal jugular fistula: positive aspect] Avrahami R, et al. **Harefuah** 1997 Jun 15; 132(12):841-3, 911 (Eng. Abstr.) **(Heb)**
[Risk factors, ageing, and asymptomatic carotid plaque] Novo S, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):263-72 **(Ita)**
[Unilateral dissection of the cervical portion of the internal carotid artery and ipsilateral multiple cerebral infarctions caused by suicidal hanging: a case report] Ikenaga T, et al. **No Shinkei Geka** 1996 Sep;24(9):853-8 (Eng. Abstr.) **(Jpn)**
[Significance of the coagulation and fibrinolytic parameters as predictors for carotid atherosclerosis] Nomura E, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):741-5 (Eng. Abstr.) **(Jpn)**
[Internal carotid artery occlusion related to seat belt shoulder strap: report of two cases] Watanabe Y, et al. **Rinsho Shinkeigaku** 1996 May;36(5):670-4 (12 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

Angiotensin-converting enzyme gene I/D polymorphism and carotid plaques in Japanese. Watanabe Y, et al. **Hypertension** 1997 Sep;30(3 Pt 2):569-73
Association between angiotensin converting enzyme gene polymorphism and carotid atherosclerosis. Kauma H, et al. **J Hypertens** 1996 Oct;14(10):1183-7
Spontaneous multivessel cervical artery dissection in a patient with a substitution of alanine for glycine (G13A) in the alpha 1 (I) chain of type I collagen [see comments] Mayer SA, et al. **Neurology** 1996 Aug;47(2):552-6. Comment in: Neurology 1997 May;48(5):1475.

HISTORY

[Hans von Haberer--the beginnings of reconstructive carotid surgery] Mönig SP, et al. **Chirurg** 1997 Feb;68(2):196-8 (Eng. Abstr.) **(Ger)**

METABOLISM

Microdialytic monitoring of the cortex during neurovascular surgery. Mendelowitsch A, et al. **Acta Neurochir Suppl (Wien)** 1996;67:48-52
Focal expression of intercellular adhesion molecule-1 in the human carotid bifurcation. Endres M, et al. **Stroke** 1997 Jan;28(1):77-82
Bone changes and carotid atherosclerosis in postmenopausal women. Uyama O, et al. **Stroke** 1997 Sep;28(9):1730-2

MICROBIOLOGY

Mycotic aneurysm of the carotid artery. A case report and review of the literature. Michielsen D, et al. **Acta Chir Belg** 1997 Jan-Feb;97(1):44-6 (14 ref.)
Incidence and pathophysiologic significance of infected carotid artery plaque. Paget CJ, et al. **Ann Vasc Surg** 1997 Mar;11(2):129-32
Mycotic common carotid artery aneurysm in an immunosuppressed pediatric patient: case report. Willemsen P, et al. **J Vasc Surg** 1997 Apr;25(4):784-5

MORTALITY

An analysis of perioperative surgical mortality and morbidity in the asymptomatic carotid atherosclerosis study [letter; comment] Lownie SP. **Stroke** 1997 Aug;28(8):1648. Comment on: Stroke 1996 Dec;27(12):2216-24.

PATHOLOGY

Common carotid intima-media thickness as an indicator of atherosclerosis at other sites of the carotid artery. The Rotterdam Study. Bots ML, et al. **Ann Epidemiol** 1996 Mar; 6(2):147-53
Atrophy of the corpus callosum associated with cognitive impairment and widespread cortical hypometabolism in carotid artery occlusive disease. Yamauchi H, et al. **Arch Neurol** 1996 Nov;53(11):1103-9
Ultrasonographic carotid plaque morphology in predicting stroke risk [letter; comment] Holdsworth RJ, et al. **Br J Surg** 1996 Oct;83(10):1479-80. Comment on: Br J Surg 1996 May;83(5):582-7.
Fibromuscular dysplasia of the internal carotid artery: a clinicopathological study. Schievink WI, et al. **Clin Neuropathol** 1996 Jan-Feb;15(1):2-6
Bilateral extracranial aneurysms of the internal carotid artery. A case report. Rossi P, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):27-31
Spontaneous carotid dissection. Israsena N, et al. **J Med Assoc Thai** 1997 Jun;80(6):406-10
Proximal long fenestration associated with an internal carotid artery aneurysm. Case illustration. Schmieder K, et al. **J Neurosurg** 1997 Apr;86(4):733
Images in clinical medicine. Traumatic carotid-artery dissection. Matsumura JS, et al. **N Engl J Med** 1996 Oct 31;335(18):1368
Carotid atherosclerosis. Definition, pathogenesis, and clinical significance. Garcia JH, et al. **Neuroimaging Clin N Am** 1996 Nov;6(4):801-10 (36 ref.)
Rete mirabile in humans--case report. Karasawa J, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):188-92
Paraclinoid carotid artery aneurysms with the dome eroding the anterior clinoid process: preoperative depiction of topography and surgical tactics--two case reports. Nagasawa S, et al. **Neurol Med Chir (Tokyo)** 1996 Sep; 36(9):639-43
Internal carotid-posterior communicating artery aneurysm manifesting as an unusual ocular motor paresis after minor head trauma--case report. Park-Matsumoto YC, et al. **Neurol Med Chir (Tokyo)** 1997 Feb;37(2):181-3
Surgical results and the related topographic anatomy in paraclinoid internal carotid artery aneurysms. Nagasawa S, et al. **Neurol Res** 1996 Oct;18(5):401-8
Pathological consideration of a "blister-like" aneurysm at the superior wall of the internal carotid artery: case report. Ishikawa T, et al. **Neurosurgery** 1997 Feb;40(2):403-5; discussion 405-6
Intracavernous carotid artery aneurysms: the possible importance of angiographic dural waisting. A case report. Horowitz M, et al. **Surg Neurol** 1996 Dec;46(6):549-52
[A case of simultaneous bilateral carotid occlusion] Yamaguchi S, et al. **No Shinkei Geka** 1997 Mar; 25(3):247-51 (12 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Arterial disease in dipper and nondipper hypertensive patients. Pierdomenico SD, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):511-8
Manipulation of cerebrovascular resistance during internal carotid artery occlusion by intraarterial verapamil. Joshi S, et al. **Anesth Analg** 1997 Oct;85(4):753-9
Early effect of carotid endarterectomy on arterial blood pressure measured with an ambulatory monitor. Dodds SR, et al. **Br J Surg** 1997 Aug;84(8):1104-6
Sequential changes in cerebrovascular reserve capacity in three-vessel occlusion rats. Kawata Y, et al. **Brain Res** 1996 Nov 11;739(1-2):330-4
Outcome of patients with symptomless carotid bruits: a prospective study. Tong Y, et al. **Cardiovasc Surg** 1996 Apr;4(2):174-80
Lipoprotein oxidation and progression of carotid atherosclerosis. Salonen JT, et al. **Circulation** 1997 Feb 18; 95(4):840-5
A case of paradoxical worsening of dural-sinus arteriovenous malformation syndrome after neurosurgery. Nagy ZZ, et al. **Eur J Ophthalmol** 1995 Oct-Dec;5(4):265-70
Effects of deferoxamine and sympathectomy on endothelin-1-induced contraction and acetylcholine-induced relaxation following subarachnoid hemorrhage in carotid artery. Sarioğlu Y, et al. **Gen Pharmacol** 1997 Jan;28(1):145-51
Age-related ischemia in the brain following bilateral carotid artery occlusion--collateral blood flow and brain metabolism. He Z, et al. **Neurochem Res** 1997 Jan; 22(1):37-42
Bilateral common carotid artery occlusion with minimal neurological deficit: long term follow up in 3 patients. Zbornikova V, et al. **Neurol Res** 1996 Apr;18(2):109-16
Outcome of asymptomatic patients with carotid disease. Asymptomatic Cervical Bruit Study Group. Mackey AE, et al. **Neurology** 1997 Apr;48(4):896-903
Diurnal systolic blood pressure variability is the strongest predictor of early carotid atherosclerosis. Sander D, et al. **Neurology** 1996 Aug;47(2):500-7
Relation between cerebral oxygen delivery and neuronal cell damage in fetal sheep near term. Berger R, et al. **Reprod Fertil Dev** 1996;8(3):317-21
In vivo association between low wall shear stress and plaque in subjects with asymmetrical carotid atherosclerosis. Gnasso A, et al. **Stroke** 1997 May;28(5):993-8
[Progressive stroke during the acute state of cerebral infarction in the territory of the internal carotid artery] Itoh H, et al. **No To Shinkei** 1996 Feb;49(2):138-44 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

In vivo angioplasty prevents the development of vasospasm in canine carotid arteries. Pharmacological and morphological analyses. Megyesi JF, et al. **Stroke** 1997 Jun; 28(6):1216-24

PSYCHOLOGY

Socioeconomic status and progression of carotid atherosclerosis. Prospective evidence from the Kuopio Ischemic Heart Disease Risk Factor Study. Lynch J, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):513-9
Interaction of workplace demands and cardiovascular reactivity in progression of carotid atherosclerosis: population based study. Everson SA, et al. **BMJ** 1997 Feb 22;314(7080):553-8

RADIOGRAPHY

Arterial saccular aneurysm model in the rabbit. Cawley CM, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1761-6
Long-term angiographic and histopathologic findings in experimental aneurysms of the carotid bifurcation embolized with platinum and tungsten coils [see comments] Reul J, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):35-42 . Comment in: AJNR Am J Neuroradiol 1997 Jan;18(1):43-4.
Bilateral spontaneous dissecting aneurysm of the internal carotid arteries: report of two cases. Grosman H, et al. **Can Assoc Radiol J** 1996 Oct;47(5):365-9
Use of panoramic radiography among an ambulatory dental population to detect patients at risk of stroke. Carter LC, et al. **J Am Dent Assoc** 1997 Jul;128(7):977-84
Lateral cephalometric radiographs: an aid in detecting patients at risk of stroke. Friedlander AH, et al. **J Am Dent Assoc** 1996 Dec;127(12):1745-50
Gas inclusion as an unusual complication in a case of giant aneurysm. Schneider JF, et al. **J Comput Assist Tomogr** 1997 Sep-Oct;21(5):842-4
Proximal long fenestration associated with an internal carotid artery aneurysm. Case illustration. Schmieder K, et al. **J Neurosurg** 1997 Apr;86(4):733
Imaging of carotid artery disease. Conventional angiography. Dean BL, et al. **Neuroimaging Clin N Am** 1996 Nov; 6(4):843-51 (34 ref.)
The role of angiography in the assessment of atherosclerotic disease. Assessment of the carotid bifurcation. Fox AJ. **Neuroimaging Clin N Am** 1996 Aug;6(3):645-9 (16 ref.)
The role of angiography in the evaluation of vascular and neoplastic disease in the external carotid artery circulation. Hu WY, et al. **Neuroimaging Clin N Am** 1996 Aug; 6(3):625-44 (37 ref.)
A false traumatic giant aneurysm of the supraclinoid carotid artery. A case report and review of the literature. Baskaya MK, et al. **Neurol Res** 1996 Apr;18(2):135-9 (29 ref.)
Carotid dissection [letter] Janati A. **Neurology** 1996 Aug; 47(2):610-1
[Possibilities and limitations of CT angiography in comparison to DSA in intracranial aneurysm] Dillo W, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):227-31 (Eng. Abstr.) **(Ger)**
[Saccular aneurysm-like bleb formation after rupture of the internal carotid-posterior communicating artery aneurysm: a case with interesting angiographic findings] Hayashi T, et al. **No Shinkei Geka** 1997 Jan;25(1):85-8 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Comparative quantitation of cerebral blood volume: SPECT versus PET. Vlasenko A, et al. **J Nucl Med** 1997 Jun; 38(6):919-24

RADIOTHERAPY

[Branchial paraganglioma. A case of carotid paraganglioma and review of the literature] Haddad Z, et al. **J Mal Vasc** 1996;21(5):315-9 (23 ref.) (Eng. Abstr.) **(Fre)**

SURGERY

Microdialytic monitoring of the cortex during neurovascular surgery. Mendelowitsch A, et al. **Acta Neurochir Suppl (Wien)** 1996;67:48-52
Stump pressure as a guide to the safety of permanent occlusion of the internal carotid artery. Kurata A, et al. **Acta Neurochir (Wien)** 1996;138(5):549-54
Long-term evaluation of EC-IC bypass patency. Schick U, et al. **Acta Neurochir (Wien)** 1996;138(8):938-42; discussion 942-3
The elongation of the internal carotid artery: early and long-term results of patients having surgery compared with unoperated controls. Ballotta E, et al. **Ann Vasc Surg** 1997 Mar;11(2):120-8
Occlusive fibromuscular disease of arteries supplying the brain: results of surgical treatment. Chiche L, et al. **Ann Vasc Surg** 1997 Sep;11(5):496-504
Results of surgical management of internal carotid artery aneurysm by the cervical approach. Coffin O, et al. **Ann Vasc Surg** 1997 Sep;11(5):482-90
Ruptured Salmonella mycotic aneurysm of the extracranial carotid artery. Rice HE, et al. **Ann Vasc Surg** 1997 Jul; 11(4):416-9
Traumatic aneurysms of the carotid arteries. Doudle MW, et al. **Aust N Z J Surg** 1996 Dec;66(12):847-9
Percutaneous transluminal angioplasty of the internal carotid artery [letter; comment] Gaines PA, et al. **Br J Surg** 1997 May;84(5):726. Comment on: Br J Surg 1996 Sep;83(9):1171-3.
Carotid endarterectomy: an underutilized means of stroke prevention [see comments] Irvine CD, et al. **Br J Surg** 1996 Oct;83(10):1373-4. Comment in: Br J Surg 1997 Feb;84(2):279.
T-balloon carotid shunt: its use during surgical treatment of non-stenotic carotid artery lesions. Ballotta E. **Cardiovasc Surg** 1996 Apr;4(2):255-7
Surgical aspects of fusiform and saccular extracranial carotid artery aneurysms. Miksić K, et al. **Cardiovasc Surg** 1997 Apr;5(2):190-5
The generation of byproducts of lipid peroxidation following

carotid endarterectomy. Soong CV, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):455–8

Pseudo–occlusion of the internal carotid artery: report of 15 cases and review of the literature. Regina G, et al. **Int Angiol** 1997 Jun;16(2):147–50 (31 ref.)

Exclusion of an internal carotid aneurysm by a covered stent. Ruebben A, et al. **J Cardiovasc Surg (Torino)** 1997 Jun; 38(3):301–3

Multiple idiopathic arterial aneurysms in children: a case report and review of the literature. Halpern V, et al. **J Vasc Surg** 1997 May;25(5):949–56 (22 ref.)

Carotid surgery: the past is prologue. The John Homans lecture. Thompson JE. **J Vasc Surg** 1997 Jan;25(1):131–40 (68 ref.)

Microdialytic monitoring during cerebrovascular surgery. Bächli H, et al. **Neurol Res** 1996 Aug;18(4):370–6

Surgical treatment of internal carotid siphon aneurysms. Kato Y, et al. **Neurol Res** 1996 Oct;18(5):409–15

The risks and benefits of carotid endarterectomy in patients with near occlusion of the carotid artery. North American Symptomatic Carotid Endarterectomy Trial (NASCET) Group. Morgenstern LB, et al. **Neurology** 1997 Apr; 48(4):911–5

Interlocking–clipping technique for giant aneurysms of the internal carotid artery: technical case report. Hashimoto H, et al. **Neurosurgery** 1997 Jun;40(6):1302–4; discussion 1304–6

Fenestrated oculomotor nerve caused by internal carotid–posterior communicating artery aneurysm: case report. Horiuchi T, et al. **Neurosurgery** 1997 Feb; 40(2):397–8; discussion 398–9

Repair of an arterial perforation of the internal carotid artery using Hemashield wrapping with aneurysm clip reinforcement: technical note. Ogilvy CS. **Neurosurgery** 1997 Jun;40(6):1312–4

Ring clip with laterally curved blades for carotid cave aneurysm. Okudera H, et al. **Neurosurgery** 1996 Sep; 39(3):614–6

An analysis of perioperative surgical mortality and morbidity in the asymptomatic carotid atherosclerosis study [letter; comment] Lownie SP. **Stroke** 1997 Aug;28(8):1648. Comment on: Stroke 1996 Dec;27(12):2216–24.

Late outcome of patients with premature carotid atherosclerosis after carotid endarterectomy. Valentine RJ, et al. **Stroke** 1996 Sep;27(9):1502–6

Combined intravascular parent artery and ophthalmic artery occlusion for giant aneurysms of the supraclinoid internal carotid artery. Ezura M, et al. **Surg Neurol** 1997 Apr; 47(4):360–3

[Value of transcranial pulsed Doppler in artery carotid surgery. A comparison of clinical, paraclinical and peroperative data] Decamps Le Chevoir J, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):51–7 (Eng. Abstr.) **(Fre)**

[Carotid–jugular fistula after an attempt at placement of a vena cava filter] Huart JY, et al. **J Mal Vasc** 1996; 21(5):308–11 (Eng. Abstr.) **(Fre)**

[Emergency carotid endarterectomy in acute infarction—case report and literature review] Eisner L, et al. **Swiss Surg** 1996;2(5):212–4 (17 ref.) (Eng. Abstr.) **(Ger)**

[Carotid endarterectomy—5–year results in St. Gallen canton hospital] Sege D, et al. **Swiss Surg** 1997;3(1):30–4 (Eng. Abstr.) **(Ger)**

[Extracranial carotid aneurysms] Hepp W. **Zentralbl Chir** 1996;121(12):1058–62 (Eng. Abstr.) **(Ger)**

[Recurrence of a giant fusiform aneurysm after neck clipping: case report] Iwamuro Y, et al. **No Shinkei Geka** 1996 Apr; 24(4):357–61 (Eng. Abstr.) **(Jpn)**

[A case of mycotic ICA petrous portion aneurysm treated with endovascular surgery] Kawakami K, et al. **No Shinkei Geka** 1996 Mar;24(3):253–7 (Eng. Abstr.) **(Jpn)**

[Surgical management of extracranial internal carotid artery aneurysms] Nagasawa S, et al. **No Shinkei Geka** 1997 Feb; 25(2):143–9 (Eng. Abstr.) **(Jpn)**

[A case of traumatic extracranial internal carotid artery dissecting aneurysm treated by proximal ligation and STA–MCA bypass] Ueyama T, et al. **No Shinkei Geka** 1997 Mar;25(3):253–8 (Eng. Abstr.) **(Jpn)**

[A case of a surgically treated extracranial internal carotid artery saccular aneurysm] Yamaguchi S, et al. **No Shinkei Geka** 1997 Feb;25(2):181–5 (Eng. Abstr.) **(Jpn)**

[Indications for carotid surgery] Aune S. **Tidsskr Nor Laegeforen** 1997 Feb 28;117(6):834–7 (56 ref.) (Eng. Abstr.) **(Nor)**

[The microsurgical treatment of large and giant aneurysms of the internal carotid artery located parasphenoidally] Eliava ShSh, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Oct–Dec;(4):3–6 (Eng. Abstr.) **(Rus)**

[Aneurysms of the extracranial part of the carotid artery] Lovričević I, et al. **Lijec Vjesn** 1996 Nov–Dec; 118(11–12):272–7 (Eng. Abstr.) **(Scr)**

THERAPY

Posttraumatic extracranial aneurysm of the internal carotid artery: combined endovascular treatment with coils and stents. Klein GE, et al. **AJNR Am J Neuroradiol** 1997 Aug; 18(7):1261–4

Dangers of endovascular treatment of an unusual carotid cavernous fistula [letter; comment] Komiyama M, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1198–9. Comment on: AJNR Am J Neuroradiol 1995 Sep;16(8):1626–8. Comment on: AJNR Am J Neuroradiol 1995 Oct;16(9):1808–10.

Covered stent placement for neurovascular disease. Singer RJ, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):507–9

Initial experience with collagen–filled Guglielmi detachable coils for endovascular treatment of experimental aneurysms. Szikora I, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):667–72

Intravascular stenting as a definitive treatment of spontaneous carotid artery dissection. Hong MK, et al. **Am J Cardiol** 1997 Feb 15;79(4):538

Angioplasty for carotid disease. No. Ferguson GG. **Arch Neurol** 1996 Jul;53(7):698–700 (25 ref.)

Carotid angioplasty. In search of a worthy alternative to endarterectomy. Ferguson RD, et al. **Arch Neurol** 1996 Jul;53(7):696–8 (39 ref.)

Carotid angioplasty. Hachinski V. **Arch Neurol** 1996 Jul; 53(7):700–1

Embolization of carotid cavernous fistulas via the superior ophthalmic vein. Gioulekas J, et al. **Aust N Z J Ophthalmol** 1997 Feb;25(1):47–53

Percutaneous transluminal angioplasty of the internal carotid artery [see comments] McGuinness CL, et al. **Br J Surg** 1996 Sep;83(9):1171–3 (10 ref.). Comment in: Br J Surg 1997 May;84(5):726. Comment in: Br J Surg 1997 May;84(5):729–30.

Combined coronary and bilateral carotid stenting: a case report. Mathur A, et al. **Cathet Cardiovasc Diagn** 1997 Feb; 40(2):202–6

Elective stenting of extracranial carotid arteries [editorial; comment] Grotta J. **Circulation** 1997 Jan 21;95(2):303–5. Comment on: Circulation 1997 Jan 21;95(2):376–81.

New interventions in cerebrovascular disease: the role of thrombolytic therapy and balloon angioplasty. Balousek PA, et al. **Curr Opin Cardiol** 1996 Sep;11(5):550–7 (67 ref.)

Endovascular stenting of internal carotid artery false aneurysm. Huang A, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):375–7

Local anesthesia in carotid angioplasty. Alessandri C, et al. **J Endovasc Surg** 1996 Feb;3(1):31–4

Carotid angioplasty: is it safe? [see comments] Becquemin JP, et al. **J Endovasc Surg** 1996 Feb;3(1):35–41 (31 ref.). Comment in: J Endovasc Surg 1996 Aug;3(3):359–60.

Techniques for endovascular recanalization of supra–aortic trunks. Criado FJ, et al. **J Endovasc Surg** 1996 Nov; 3(4):405–13 (48 ref.)

Carotid angioplasty on trial [comment] Diethrich EB. **J Endovasc Surg** 1996 Feb;3(1):21. Comment on: J Endovasc Surg 1996 Feb;3(1):16–20.

Stenting in the carotid artery: initial experience in 110 patients. Diethrich EB, et al. **J Endovasc Surg** 1996 Feb; 3(1):42–62

European carotid angioplasty trial [see comments] Sivaguru A, et al. **J Endovasc Surg** 1996 Feb;3(1):16–20. Comment in: J Endovasc Surg 1996 Feb;3(1):21.

Stenting: a new approach to carotid dissection. DeOcampo J, et al. **J Neuroimaging** 1997 Jul;7(3):187–90

Regarding "Statement regarding carotid angioplasty and stenting" [letter] Hobson RW 2nd, et al. **J Vasc Surg** 1997 Jun;25(6):1117

Endovascular therapy for the carotid artery. Urwin RW, et al. **Neuroimaging Clin N Am** 1996 Nov;6(4):957–73 (67 ref.)

Bilateral cavernous carotid artery aneurysms in a 4–year–old child: endovascular treatment with mechanically detachable coils. Cekirge S, et al. **Neuroradiology** 1997 May; 39(5):367–70

Endovascular treatment of experimental aneurysms with liquid polymers: the protective potential of stents. Szikora I, et al. **Neurosurgery** 1996 Feb;38(2):339–47

The importance of risk factors as related to the surgical vs. medical treatment of carotid artery disease. Miller JH. **Tenn Med** 1997 Mar;90(3):101–2

[Spontaneous carotid–cavernous fistula: correlations between clinical findings and venous drainage] Calzolari F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):358–66 (14 ref.) (Eng. Abstr.) **(Ita)**

[Management of asymptomatic cerebrovascular lesions. 2. Treatment of carotid artery diseases] Takagi M. **Nippon Naika Gakkai Zasshi** 1997 May 10;86(5):781–6 **(Jpn)**

[A case report of the carotid cavernous fistula treated by endovascular embolization using interlocking detachable coil (IDC)] Kawarabuki K, et al. **No Shinkei Geka** 1996 Mar;24(3):273–6 (Eng. Abstr.) **(Jpn)**

[Transarterial platinum coil embolization for direct carotid–cavernous fistula] Momoji J, et al. **No To Shinkei** 1997 Jan;49(1):85–91 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Role of Doppler ultrasound in screening for carotid atherosclerotic disease. Halpern EJ. **Acad Radiol** 1996 Aug; 3(8):688–91; discussion 691–3

Duplex and color Doppler flow sonography of occlusion and near occlusion of the carotid artery. Lee DH, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1267–74

Depiction of carotid plaque ulceration and other plaque–related disorders by intravascular sonography: a flow chamber study. Miskolczi L, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1881–90

Echo color Doppler imaging of carotid vessels in hemodialysis patients: evidence of high levels of atherosclerotic lesions. Pascazio L, et al. **Am J Kidney Dis** 1996 Nov;28(5):713–20

The appropriate use of the duplex scan in carotid arterial disease. Hill SL, et al. **Am Surg** 1997 Aug;63(8):720–5

Orbital color Doppler imaging in carotid occlusive disease. Mawn LA, et al. **Arch Ophthalmol** 1997 Apr;115(4):492–6

Orbital colour Doppler imaging in carotid–cavernous sinus fistula. Aung T, et al. **Aust N Z J Ophthalmol** 1996 May; 24(2):121–6

Spontaneous dissections of the internal carotid artery: appearances on colour Doppler ultrasound. Sidhu PS, et al. **Br J Radiol** 1997 Jan;70:50–7

The extended role of carotid artery ultrasound. Sidhu PS, et al. **Clin Radiol** 1997 Sep;52(9):643–53 (150 ref.)

Cerebral microembolism in atherosclerotic carotid artery disease: facts and perspectives. Sitzer M, et al. **Funct Neurol** 1995 Nov–Dec;10(6):251–8 (45 ref.)

The ultrasonic evaluation of the carotid intima–media thickness and its relation to risk factors of atherosclerosis in normal and diabetic population. el–Barghouti N, et al. **Int Angiol** 1997 Mar;16(1):50–4

Diagnostic criteria for transcranial colour–coded duplex sonography evaluation of cross–flow through the circle of Willis in unilateral obstructive carotid artery disease. Baumgartner RW, et al. **J Neurol** 1996 Jul;243(7):516–21

Evaluation and characterization of carotid plaque. Bluth EI. **Semin Ultrasound CT MR** 1997 Feb;18(1):57–65 (52 ref.)

Ethnic differences in carotid wall thickness. The Insulin Resistance Atherosclerosis Study. D'Agostino RB Jr, et al. **Stroke** 1996 Oct;27(10):1744–9

Intracranial microembolic signals in 500 patients with potential cardiac or carotid embolic source and in normal controls. Georgiadis D, et al. **Stroke** 1997 Jun;28(6):1203–7

In vivo association between low wall shear stress and plaque in subjects with asymmetrical carotid atherosclerosis. Gnasso A, et al. **Stroke** 1997 May;28(5):993–8

Atherosclerotic changes in the carotid artery bulb as measured by B–mode ultrasound are associated with the extent of coronary atherosclerosis. Hulthe J, et al. **Stroke** 1997 Jun;28(6):1189–94

Bone changes and carotid atherosclerosis in postmenopausal women. Uyama O, et al. **Stroke** 1997 Sep;28(9):1730–2

Diagnosis and follow–up of carotid–cavernous fistulas by carotid duplex sonography and transcranial color Doppler imaging. Chen YW, et al. **Ultrasound Med Biol** 1996; 22(9):1155–62

Reproducibility of extracranial carotid atherosclerotic lesions assessed by B–mode ultrasound: the Atherosclerosis Risk in Communities Study. Li R, et al. **Ultrasound Med Biol** 1996;22(7):791–9

Vasa vasorum visualised by power–Doppler in normal and arteriosclerotic carotid arteries. Belcaro G, et al. **Vasa** 1996; 25(3):226–32

[Lateral cranial dural fistula. Detection with Doppler and duplex ultrasound] Arning C, et al. **Nervenarzt** 1997 Feb; 68(2):139–46 (Eng. Abstr.) **(Ger)**

[Factors influencing measuring parameters of beginning arteriosclerotic wall changes in carotid arteries in ultrasound] Delcker A, et al. **Rontgenpraxis** 1996 Sep; 49(9):229–34 **(Ger)**

[White coat arterial hypertension: ultrasonographic study of the carotid arteries] Pellegrino L, et al. **Cardiologia** 1996 Aug;41(8):767–75 (49 ref.) (Eng. Abstr.) **(Ita)**

[Carotid vessels studied by Doppler color echography and digital angiography. Results of meta analysis] Cappetti P, et al. **Minerva Cardioangiol** 1996 Jul–Aug;44(7–8):373–6 (Eng. Abstr.) **(Ita)**

[The role of Doppler US in the study of carotid system] Salcuni M, et al. **Rays** 1995 Oct–Dec;20(4):406–25 (46 ref.) (Eng. Abstr.) **(Ita)**

CAROTID ARTERY, EXTERNAL

Hemifacial spasm associated with external carotid artery compression of the facial nerve [see comments] Rakover Y, et al. **J Laryngol Otol** 1996 Nov;110(11):1081–3. Comment in: J Laryngol Otol 1997 Jul;111(7):688–9.

Arteriovenous fistula after temporomandibular joint arthroscopy treated with external carotid embolization. Scholl PD, et al. **Otolaryngol Head Neck Surg** 1997 Jul; 117(1):124–6

ABNORMALITIES

A rare case of McCune–Albright syndrome associated with glaucoma retinal degeneration and arteriovenous malformations [letter] Scuderi G, et al. **Eye** 1996;10 (Pt 6):752–5

[Morphologic anomalies of the extracranial internal carotid artery. Our experience] Carcoforo P, et al. **Minerva Cardioangiol** 1997 Jan–Feb;45(1–2):37–41 (Eng. Abstr.) **(Ita)**

INNERVATION

Modification of superior cervical ganglion transmission, by changes of carotid bifurcation pressure. Buller KM, et al. **J Auton Nerv Syst** 1996 Jul 5;59(3):159–64

PHYSIOLOGY

Modification of superior cervical ganglion transmission, by changes of carotid bifurcation pressure. Buller KM, et al.

J Auton Nerv Syst 1996 Jul 5;59(3):159–64

PHYSIOPATHOLOGY

Internal and external carotid contributions to near-infrared spectroscopy during carotid endarterectomy. Lam JM, et al. **Stroke** 1997 May;28(5):906–11

[Low flow cavernous sinus fistula. Treatment by highly selective embolization] Lanzas MG, et al. **Rev Neurol** 1996 Apr;24(128):452–5 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

The role of angiography in the evaluation of vascular and neoplastic disease in the external carotid artery circulation. Hu WY, et al. **Neuroimaging Clin N Am** 1996 Aug; 6(3):625–44 (37 ref.)

[Risks and therapy options in dural arteriovenous fistulas between branches of the external carotid artery and the cavernous sinus. A case report and review of the literature] Thumann G, et al. **Klin Monatsbl Augenheilkd** 1996 Dec; 209(6):aA10–3 (31 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Posterior deviation of the classical approach to the carotid artery to control hemorrhage from a carotido-cutaneous fistula. Prêtre R, et al. **Am Surg** 1996 Dec;62(12):981–3

Hemifacial spasm associated with external carotid artery compression of the facial nerve [letter; comment] Ryu H. **J Laryngol Otol** 1997 Jul;111(7):688–9. Comment on: J Laryngol Otol 1996 Nov;110(11):1081–3.

External carotid artery ligation for life-threatening hemorrhage in exsanguinating orbital facial congenital hemangiopericytoma. Fanning NF, et al. **J Pediatr Surg** 1997 Aug;32(8):1252–4

Internal and external carotid contributions to near-infrared spectroscopy during carotid endarterectomy. Lam JM, et al. **Stroke** 1997 May;28(5):906–11

ULTRASONOGRAPHY

Temporal artery tap: usefulness and limitations in carotid sonography. Kliewer MA, et al. **Radiology** 1996 Nov; 201(2):481–4

CAROTID ARTERY, INTERNAL

Endovascular occlusion of the carotid or vertebral artery with temporary proximal flow arrest and microcoils: clinical results. Graves VB, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1201–6

Recurrent abducens nerve palsy caused by dolichoectasia of the cavernous internal carotid artery. Blumenthal EZ, et al. **Am J Ophthalmol** 1997 Aug;124(2):255–7

Two unusual variants of internal carotid artery aneurysms due to fibromuscular dysplasia. Rhee RY, et al. **Ann Vasc Surg** 1996 Sep;10(5):481–5

Baroreflex dysfunction after nasopharyngectomy and bilateral carotid isolation. Lee HT, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr;123(4):434–7

Case report: sequential bilateral carotid dissection leading to Raeder's syndrome. Stefani P, et al. **Br J Radiol** 1996 Dec;69(828):1184–6

Semantic, phonological, and perceptual changes following left and right intracarotid injection (Wada) with a low amytal dosage. Fedio P, et al. **Brain Cogn** 1997 Feb; 33(1):98–117

Assessment of the functional effect of the intracarotid sodium amobarbital procedure using co-registered MRI/HMPAO-SPECT and SEEG. McMackin D, et al. **Brain Cogn** 1997 Feb;33(1):50–70

A reconsideration of bilateral language representation based on the intracarotid amobarbital procedure. Risse GL, et al. **Brain Cogn** 1997 Feb;33(1):118–32

Carotid angiography in conjunction with amytal testing of epilepsy patients. Silfvenius H, et al. **Brain Cogn** 1997 Feb; 33(1):33–49 (56 ref.)

Combined coronary and bilateral carotid stenting: a case report. Mathur A, et al. **Cathet Cardiovasc Diagn** 1997 Feb; 40(2):202–6

Analysis of tracer transit in rat brain after carotid artery and femoral vein administrations using linear system theory. Rudin M, et al. **Magn Reson Imaging** 1997;15(5):551–8

Cerebral hemodynamic changes during carotid artery balloon occlusion monitored by near-infrared spectroscopy. Kuroda S, et al. **Neurol Med Chir (Tokyo)** 1996 Feb; 36(2):78–86

Ehlers-Danlos syndrome with a spontaneous caroticocavernous fistula occluded by detachable balloon: case report and review of literature. Forlodou P, et al. **Neuroradiology** 1996 Aug;38(6):595–7 (16 ref.)

Myxoma in the carotid artery. Myxomatous occlusion of internal carotid artery. Robbin NA, et al. **Stroke** 1997 Feb; 28(2):456–8

Transcranial Doppler ultrasound battery reliably identifies severe internal carotid artery stenosis. Wilterdink JL, et al. **Stroke** 1997 Jan;28(1):133–6

[Carotid endarterectomy by eversion and reimplantation. Techniques and results] Chakfe N, et al. **J Mal Vasc** 1997 Jul;22(3):168–72 (31 ref.) (Eng. Abstr.) **(Fre)**

[Spontaneous dissection of the internal carotid artery: apropos of a case] Lefebvre P, et al. **Rev Med Brux** 1996 Oct;17(5):342–5 (18 ref.) (Eng. Abstr.) **(Fre)**

[An unusual combination of carotid artery-cavernous sinus fistula and sinus thrombosis. Successful therapy with anticoagulation] Yousry TA, et al. **Nervenarzt** 1997 Feb; 68(2):135–8 (Eng. Abstr.) **(Ger)**

[Effect of thrombus endarterectomy (TEA) on the regional cerebral bloodflow (rCBF) in patients with unilateral internal carotid artery stenosis] Otte A, et al. **Nuklearmedizin** 1997 Jan;36(1):23–8 (Eng. Abstr.) **(Ger)**

[Pseudo-occlusions of the internal carotid artery] Azzarone M, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):621–5; discussion 626 (Eng. Abstr.) **(Ita)**

[A case of left subclavian artery occlusion with transient ischemic attacks probably in the internal carotid artery system] Mochizuki A, et al. **Rinsho Shinkeigaku** 1997 Mar; 37(3):257–60 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Reduced caliber of the internal carotid artery: a normal finding with ipsilateral absence or hypoplasia of the A1 segment. Kane AG, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1295–301

Aberrant internal carotid artery presenting in the midline retropharyngeal space: case report. Miller S, et al. **Can Assoc Radiol J** 1997 Feb;48(1):33–7

Combined endarterectomy of the internal carotid artery and persistent hypoglossal artery: an unusual case of carotid revascularization. Cartier R, et al. **Can J Surg** 1996 Apr; 39(2):159–62

Aberrant retropharyngeal internal carotid artery in a child with spondyloepimetaphyseal dysplasia and cleft palate. Fluke MM, et al. **Cleft Palate Craniofac J** 1996 Jul; 33(4):337–9

MR imaging and MR angiography of persistent trigeminal artery and its variant. Uchino A, et al. **Clin Imaging** 1996 Oct-Dec;20(4):247–52

Persistent trigeminal artery as a cause of dizziness. Battista RA, et al. **Ear Nose Throat J** 1997 Jan;76(1):43–5 (18 ref.)

Congenital absence and aberrant course of the internal carotid artery. Takahashi S, et al. **Eur Radiol** 1996; 6(5):650–4

Quiz case of the month. Partial agenesis of the internal carotid artery with collateral circulation through an enlarged inferior tympanic artery. Verbist B, et al. **Eur Radiol** 1996; 6(6):939–40

Internal carotid artery in rostral epidural rete mirabile in animals of the suborder of Ruminantia. Godynicki S, et al. **Folia Morphol (Warsz)** 1996;55(4):267–9

Surgical treatment of carotid kinking. Zanetti PP, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):21–6

Hemifacial atrophy: a neurocutaneous disorder with coup de sabre deformity, telangiectatic naevus, aneurysmatic malformation of the internal carotid artery and crossed hemiatrophy [letter] Strenge H, et al. **J Neurol** 1996 Sep; 243(9):658–60

Hypoplastic internal carotid artery mimicking a classic angiographic "string sign". Case report. Heth JA, et al. **J Neurosurg** 1997 Mar;86(3):567–70

Anomalous branch of the internal carotid artery maintains patency distal to a complete occlusion diagnosed by duplex scan. Bowen JC, et al. **J Vasc Surg** 1997 Jul;26(1):164–7

Subclavian artery aneurysm associated with absence of the ipsilateral internal carotid artery. Mikami C, et al. **Neurol Res** 1996 Apr;18(2):140–4

MRI and MR angiography of persistent trigeminal artery. Piotin M, et al. **Neuroradiology** 1996 Nov;38(8):730–3

Optic nerve compression by a dolichoectatic internal carotid artery: case report. Colapinto EV, et al. **Neurosurgery** 1996 Sep;39(3):604–6

Intracavernous anterior cerebral artery origin with associated arteriovenous malformations: a developmental analysis: case report. Singer RJ, et al. **Neurosurgery** 1997 Apr; 40(4):829–31; discussion 831

Choroidal detachment associated with direct spontaneous carotid-cavernous sinus fistula. Berk AT, et al. **Ophthalmologica** 1997;211(1):53–5

Bilateral internal carotid artery agenesis in a child with psychomotor developmental delay. Yokochi K, et al. **Pediatr Neurol** 1996 Jul;15(1):76–8

Anastomosis between the internal carotid and vertebral artery in the neck. Papon X, et al. **Surg Radiol Anat** 1995; 17(4):335–7

[Agenesis of the internal carotid artery associated with an aneurysm of the anterior communicating artery] Armand JP, et al. **J Neuroradiol** 1996 Dec;23(3):164–7 (Eng. Abstr.) **(Fre)**

[Aberrant intra-petrous internal carotid artery: apropos of a case] Rubinstein P, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(3):229–32 (Eng. Abstr.) **(Fre)**

[Basilar artery aneurysm associated with agenesis of unilateral internal carotid artery: two case reports] Sugiura Y, et al. **No Shinkei Geka** 1997 Apr;25(4):385–90 (Eng. Abstr.) **(Jpn)**

[A case of repetitive cerebellar ataxia with persistent primitive trigeminal artery] Yaginuma M, et al. **No To Shinkei** 1997 Apr;49(4):343–7 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Unilateral agenesis of the internal carotid artery in childhood: description of a case] Martinez-Granero MA, et al. **Rev Neurol** 1997 Aug;25(144):1207–9 (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Anatomy of the posterior communicating artery--preliminary report. Klapecki J, et al. **Folia Morphol (Warsz)** 1996;55(4):335–7

Anatomy of the anterior choroidal artery--clinically orientated study. Pacholec E, et al. **Folia Morphol (Warsz)** 1996;55(4):411–3

The meningohypophyseal trunk and its blood supply to different intracranial structures. An anatomical study. Reisch R, et al. **Minim Invasive Neurosurg** 1996 Sep; 39(3):78–81

The "rete mirabile" of the clivus and the dorsum sellae. A microanatomical study. Vutskits L, et al. **Minim Invasive Neurosurg** 1996 Dec;39(4):138–40

Segments of the internal carotid artery: a new classification. Bouthillier A, et al. **Neurosurgery** 1996 Mar;38(3):425–32; discussion 432–3

Microsurgical anatomy of the infratemporal fossa as viewed laterally and superiorly. Vrionis FD, et al. **Neurosurgery** 1996 Oct;39(4):777–85; discussion 785–6

INJURIES

False aneurysms of the intracavernous carotid artery--report of 7 cases. Bavinzski G, et al. **Acta Neurochir (Wien)** 1997; 139(1):37–43

Posttraumatic extracranial aneurysm of the internal carotid artery: combined endovascular treatment with coils and stents. Klein GE, et al. **AJNR Am J Neuroradiol** 1997 Aug; 18(7):1261–4

Trigeminal-cavernous fistula: Saltzman anatomy revisited. McKenzie JD, et al. **AJNR Am J Neuroradiol** 1996 Feb; 17(2):280–2

Traumatic aneurysm of the internal carotid artery: a late finding presenting as a mass in the sphenoid sinus. Ramos A, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):222–5

Arterial injuries in transsphenoidal surgery for pituitary adenoma; the role of angiography and endovascular treatment. Raymond J, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):655–65

Transarterial embolization of a direct carotid cavernous fistula with Guglielmi detachable coils. Siniluoto T, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):519–23

Carotid artery injury and delayed cerebral infarction after minor pharyngeal trauma. Sidhu MK, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1056

Traumatic carotid artery dissection. Opeskin K. **Am J Forensic Med Pathol** 1997 Sep;18(3):251–7 (44 ref.)

Carotid arterial trauma: assessment with the Glasgow Coma Scale (GCS) as a guide to surgical management. Teehan EP, et al. **Cardiovasc Surg** 1997 Apr;5(2):196–200 (27 ref.)

Atypical course of carotid cavernous sinus fistula in a six-year-old child. Kanaan I, et al. **Childs Nerv Syst** 1996 Dec;12(12):789–93

Traumatic blunt carotid injury: clinical experience and review of the literature. Berlot G, et al. **Eur J Emerg Med** 1996 Mar;3(1):36–42 (24 ref.)

Injury of the cervical spine associated with carotid and vertebral artery occlusion: case report and literature review. Schippinger G, et al. **Injury** 1997 May;28(4):315–8 (24 ref.)

Brachial plexus palsy and carotid artery dissection. Edmunds I, et al. **J Hand Surg [Br]** 1996 Oct;21(5):695

Optic chiasmal compression by venous aneurysm: magnetic resonance imaging diagnosis. Wolansky LJ, et al. **J Neuroimaging** 1997 Jan;7(1):46–7

Dissecting aneurysm of the internal carotid artery after a mandibular osteotomy. Suzuki H, et al. **J Oral Maxillofac Surg** 1997 Jul;55(7):747–50

Gunshot wounds of the internal carotid artery at the skull base: management with vein bypass grafts and a review of the literature. Rostomily RC, et al. **J Trauma** 1997 Jan; 42(1):123–32 (60 ref.)

Permanent carotid artery occlusion should not be performed using fibered coils without proximal flow arrest [letter; comment] Connors JJ 3rd, et al. **J Vasc Interv Radiol** 1996 Nov-Dec;7(6):947–8. Comment on: J Vasc Interv Radiol 1995 Nov-Dec;6(6):857–61.

Interventional radiology in the treatment of internal carotid artery gunshot wounds [see comments] Sclafani SJ, et al. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):857–61. Comment in: J Vasc Interv Radiol 1996 Nov-Dec;7(6):947–8.

An unfortunate consequence of being tickled. Nance J, et al. **Lancet** 1997 Apr 19;349(9059):1142

Stroke after a visit to the hairdresser [letter] Nwokolo N, et al. **Lancet** 1997 Sep 20;350(9081):866

Emergent treatment of iatrogenic dissection of the internal carotid artery with the Palmaz-Schatz stent--case report. Yamashita K, et al. **Neurol Med Chir (Tokyo)** 1997 Apr; 37(4):336–9

Treatment of post-traumatic carotico-cavernous fistulae using electrolytically detachable coils: technical aspects and preliminary experience. Bavinzski G, et al. **Neuroradiology** 1997 Feb;39(2):81–5

Non-invasive diagnosis of traumatic occlusion of extracranial internal carotid artery by magnetic resonance angiography. Göçer AI, et al. **Neurosurg Rev** 1996;19(4):281–3

Direct carotid cavernous fistula after trigeminal balloon microcompression gangliolysis: case report [letter; comment] Brown JA. **Neurosurgery** 1997 Apr;40(4):886. Comment on: Neurosurgery 1996 Oct;39(4):853–5; discussion 855–6.

Diagnosis of traumatic carotid–cavernous sinus fistula by monitoring venous oxygen saturation in the jugular bulb: report of two cases. Delle Corte F, et al. **Neurosurgery** 1996 Aug;39(2):390–2; discussion 392–3

Direct carotid cavernous fistula after trigeminal balloon microcompression gangliolysis: case report [see comments] Kuether TA, et al. **Neurosurgery** 1996 Oct;39(4):853–5; discussion 855–6. Comment in: Neurosurgery 1997 Apr;40(4):886.

Treatment of dissecting pseudoaneurysm of the cervical internal carotid artery using a wall stent and detachable coils: case report. Perez–Cruet MJ, et al. **Neurosurgery** 1997 Mar;40(3):622–5; discussion 625–6

Diagnosis of blunt carotid injury in patients with facial trauma. Marciani RD, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Jan;83(1):5–9

Image interpretation session: 1996. Traumatic dissection of the internal carotid artery (mural arterial dissection).
Radiographics 1997 Jan–Feb;17(1):253–6

[Traumatically–induced closure with spontaneous recanalization of the internal carotid artery] Bauer KF, et al. **Chirurg** 1997 Feb;68(2):187–9 (Eng. Abstr.) **(Ger)**

[Unilateral dissection of the cervical portion of the internal carotid artery and ipsilateral multiple cerebral infarctions caused by suicidal hanging: a case report] Ikenaga T, et al. **No Shinkei Geka** 1996 Sep;24(9):853–8 (Eng. Abstr.) **(Jpn)**

[Arresting massive retrograde hemorrhage in injury of major vessels in external base of the skull] Kiselev AS.
Vestn Otorinolaringol 1996 Jul–Aug;(4):50–1 **(Rus)**

PATHOLOGY

Reduced caliber of the internal carotid artery: a normal finding with ipsilateral absence or hypoplasia of the A1 segment. Kane AG, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1295–301

The elongation of the internal carotid artery: early and long–term results of patients having surgery compared with unoperated controls. Ballotta E, et al. **Ann Vasc Surg** 1997 Mar;11(2):120–8

Ocular complications in Ehlers–Danlos syndrome type IV. Pollack JS, et al. **Arch Ophthalmol** 1997 Mar;115(3):416–9

Moyamoya disease with a marked collateral supply through the artery of Bernasconi–Cassinari. Pascual–Castroviejo I, et al. **Brain Dev** 1996 Jan–Feb;18(1):71–4

Fibromuscular dysplasia of the internal carotid artery: a clinicopathological study. Schievink WI, et al.
Clin Neuropathol 1996 Jan–Feb;15(1):2–6

Carotid artery dissection in a young adult: cystic medial necrosis associated with an increased elastase content. Thal DR, et al. **Clin Neuropathol** 1997 Jul–Aug;16(4):180–4

Spontaneous rupture of an internal carotid artery aneurysm diagnosed as a peritonsillar abscess, a tonsillar and epipharyngeal carcinoma with metastasis. Karov I.
Folia Med (Plovdiv) 1996;38(2):65–7

MRI– and MRA–guided therapy of carotid and vertebral artery dissections. Jacobs A, et al. **J Neurol Sci** 1997 Mar 20;147(1):27–34

Proximal long fenestration associated with an internal carotid artery aneurysm. Case illustration. Schmieder K, et al.
J Neurosurg 1997 Apr;86(4):733

Paraclinoid carotid artery aneurysms with the dome eroding the anterior clinoid process: preoperative depiction of topography and surgical tactics—two case reports. Nagasawa S, et al. **Neurol Med Chir (Tokyo)** 1996 Sep; 36(9):639–43

Surgical results and the related topographic anatomy in paraclinoid internal carotid artery aneurysms. Nagasawa S, et al. **Neurol Res** 1996 Oct;18(5):401–8

Diagnosis of carotid–cavernous fistulas with magnetic resonance angiography—demonstrating the draining veins utilizing 3–D time–of–flight and 3–D phase–contrast techniques. Ikawa F, et al. **Neurosurg Rev** 1996;19(1):7–12

Fatal subarachnoid hemorrhage from the rupture of a totally intracavernous carotid artery aneurysm: case report. Lee AG, et al. **Neurosurgery** 1996 Mar;38(3):596–8; discussion 598–9

[Efficacy of MR angiographic original images on surgery for posterior communicating artery aneurysms] Takeichi Y, et al. **No Shinkei Geka** 1997 May;25(5):411–6 (Eng. Abstr.) **(Jpn)**

[Dissection of the internal carotid artery with subarachnoid hemorrhage] Martín–Bermúdez R, et al. **Rev Neurol** 1997 Jun;25(142):882–3 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Respiratory variation of carotid artery flow in cardiac tamponade. Bhagwat AR, et al. **Am Heart J** 1996 Nov; 132(5):1068–70

Alteration in the pulsatility index values of the internal carotid and middle cerebral arteries after suspension of postmenopausal hormone replacement therapy: a randomized crossover study. Penotti M, et al.
Am J Obstet Gynecol 1996 Sep;175(3 Pt 1):606–11

Total and regional cerebral blood flow during recovery from G–LOC. Werchan PM, et al. **Aviat Space Environ Med** 1996 Aug;67(8):751–8

Are the effects of local joint movement on blood flow limited to the vertebral and internal carotid arteries? Doppler studies of the ulnar artery. Haynes MJ.
J Manipulative Physiol Ther 1995 Nov–Dec;18(9):569–71

PHYSIOPATHOLOGY

Management of the carotid artery following penetrating injuries of the soft palate. Suskind DL, et al.
Int J Pediatr Otorhinolaryngol 1997 Feb 14;39(1):41–9

Preoperative risk assessment for carotid occlusion by transcranial Doppler ultrasound. Schneweis S, et al.
J Neurol Neurosurg Psychiatry 1997 May;62(5):485–9

Auditory hallucinations and agenesis of the left internal carotid artery [letter] Cassar J, et al.
J Neuropsychiatry Clin Neurosci 1996 Spring;8(2):231

Brain perfusion imaging during preoperative temporary balloon occlusion of the internal carotid artery [see comments] Lorberboym M, et al. **J Nucl Med** 1996 Mar; 37(3):415–9. Comment in: J Nucl Med 1996 Mar;37(3):419–20.

Temporary balloon occlusion, SPECT and carotid artery sacrifice [editorial; comment] Palestro CJ. **J Nucl Med** 1996 Mar;37(3):419–20. Comment on: J Nucl Med 1996 Mar;37(3):415–9.

Relationship between the flow pattern and vasomotor reactivity in the ophthalmic artery, siphon and vessels within the circle of Willis in the unilateral internal carotid artery occlusion. Zbornikova V, et al. **Neurol Res** 1996 Dec;18(6):521–7

Chronic cerebral hypoperfusion by permanent internal carotid ligation produces learning impairment without brain damage in rats. Ohta H, et al. **Neuroscience** 1997 Aug; 79(4):1039–50

Internal and external carotid contributions to near–infrared spectroscopy during carotid endarterectomy. Lam JM, et al. **Stroke** 1997 May;28(5):906–11

[Evaluation of blood flow rate in the internal carotid system in various types of retinal vein occlusion] Góralczyk M, et al. **Klin Oczna** 1996 Feb;98(2):105–8 (Eng. Abstr.) **(Pol)**

[Angiographic findings among Ecuadorian metis population with occlusive cerebrovascular disease of the anterior circulation] del Brutto OH, et al. **Rev Neurol** 1997 Jan; 25(137):40–3 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Proximal long fenestration associated with an internal carotid artery aneurysm. Case illustration. Schmieder K, et al.
J Neurosurg 1997 Apr;86(4):733

Carotid duplex criteria for a 60% or greater angiographic stenosis: variation according to equipment. Fillinger MF, et al. **J Vasc Surg** 1996 Nov;24(5):856–64

Dual microcatheter and guidewire snare technique for retrieval of intravascular foreign body: technical note. Terada T, et al. **Neuroradiology** 1996 Oct;38(7):615–7

[A case of spontaneous cervical internal carotid artery dissection] Shimada J, et al. **No Shinkei Geka** 1997 Jan; 25(1):67–71 (Eng. Abstr.) **(Jpn)**

[Angiographical evaluation of extracranial carotid artery: comparison between Japanese and Hungarian] Toyota A, et al. **No To Shinkei** 1997 Jul;49(7):633–7 (Eng. Abstr.) **(Jpn)**

[Abducent nerve palsy as the only symptom of intracavernous carotid aneurysm in a child]
Oleszczyńska–Prost E, et al. **Klin Oczna** 1996;98(6):451–4 (Eng. Abstr.) **(Pol)**

SURGERY

Stump pressure as a guide to the safety of permanent occlusion of the internal carotid artery. Kurata A, et al.
Acta Neurochir (Wien) 1996;138(5):549–54

The elongation of the internal carotid artery: early and long–term results of patients having surgery compared with unoperated controls. Ballotta E, et al. **Ann Vasc Surg** 1997 Mar;11(2):120–8

Video–assisted distal carotid artery surgery. Cheshire NJ, et al. **Br J Surg** 1997 Jul;84(7):1010

Polytetrafluoroethylene grafts for carotid repair. Becquemin JP, et al. **Cardiovasc Surg** 1996 Dec;4(6):740–5

Eversion endarterectomy in surgery of the internal carotid artery. Entz L, et al. **Cardiovasc Surg** 1996 Apr;4(2):190–4

Persistent trigeminal artery as a cause of dizziness. Battista RA, et al. **Ear Nose Throat J** 1997 Jan;76(1):43–5 (18 ref.)

General anaesthesia versus cervical block and perioperative complications in carotid artery surgery. Fiorani P, et al.
Eur J Vasc Endovasc Surg 1997 Jan;13(1):37–42

Surgical treatment of carotid kinking. Zanetti PP, et al.
J Cardiovasc Surg (Torino) 1997 Feb;38(1):21–6

Preoperative risk assessment for carotid occlusion by transcranial Doppler ultrasound. Schneweis S, et al.
J Neurol Neurosurg Psychiatry 1997 May;62(5):485–9

Mobilization of the internal carotid artery for basilar artery aneurysm surgery. Technical note. Matsuyama T, et al.
J Neurosurg 1997 Feb;86(2):294–6

Use of muscle flap to cover infections of the carotid artery after carotid endarterectomy. Zacharoulis DC, et al.
J Vasc Surg 1997 Apr;25(4):769–73

Surgical exposure of the petrous internal carotid artery: practical application for skull base surgery. Dew LA, et al. **Laryngoscope** 1997 Jul;107(7):967–76

Endovascular stenting of a traumatic dissecting aneurysm of the extracranial internal carotid artery—case report. Miyachi S, et al. **Neurol Med Chir (Tokyo)** 1997 Mar; 37(3):270–4

Surgical treatment of internal carotid siphon aneurysms. Kato Y, et al. **Neurol Res** 1996 Oct;18(5):409–15

Cervical–to–petrous internal carotid artery saphenous vein in situ bypass for the treatment of a high cervical dissecting aneurysm: technical case report. Candon E, et al.
Neurosurgery 1996 Oct;39(4):863–6

Repair of an arterial perforation of the internal carotid artery using Hemashield wrapping with aneurysm clip reinforcement: technical note. Ogilvy CS. **Neurosurgery** 1997 Jun;40(6):1312–4

Ring clip with laterally curved blades for carotid cave aneurysm. Okudera H, et al. **Neurosurgery** 1996 Sep; 39(3):614–6

Internal and external carotid contributions to near–infrared spectroscopy during carotid endarterectomy. Lam JM, et al. **Stroke** 1997 May;28(5):906–11

Eversion endarterectomy of the internal carotid artery: technique and results in 449 procedures. Darling RC 3rd, et al. **Surgery** 1996 Oct;120(4):635–9; discussion 639–40

[Surgical results of two cases of simultaneous carotid endarterectomy and coronary artery bypass grafting] Harada H, et al. **Kyobu Geka** 1996 Jul;49(7):557–61 (Eng. Abstr.) **(Jpn)**

[Emergency internal carotid artery ligation using near infrared spectroscopy] Saitoh K, et al. **Masui** 1996 Aug; 45(8):1015–7 (Eng. Abstr.) **(Jpn)**

[Carotid angioplasty with cerebral protection and endovascular prosthesis] Soler–Singla L, et al.
Rev Neurol 1997 Feb;25(138):287–90 (12 ref.) **(Spa)**

ULTRASONOGRAPHY

The blood–flow velocity analysis as a possible method for arterial calibre discovery. A statistical investigation in 108 human subjects by color–Doppler method. Macchi C, et al. **Ital J Anat Embryol** 1996 Jan–Mar;101(1):45–55

Anomalous branch of the internal carotid artery maintains patency distal to a complete occlusion diagnosed by duplex scan. Bowen JC, et al. **J Vasc Surg** 1997 Jul;26(1):164–7

Duplex morphologic features of the reconstructed carotid artery: changes occurring more than five years after endarterectomy. Coe DA, et al. **J Vasc Surg** 1997 May; 25(5):850–6; discussion 856–7

Carotid duplex criteria for a 60% or greater angiographic stenosis: variation according to equipment. Fillinger MF, et al. **J Vasc Surg** 1996 Nov;24(5):856–64

[Detection of microemboli in patients with extracranial carotid artery stenosis by transcranial Doppler sonography] Akiyama Y, et al. **No Shinkei Geka** 1997 Jan;25(1):41–5 (Eng. Abstr.) **(Jpn)**

[Carotid–cavernous fistula—diagnostic possibilities of color doppler ultrasonography] Stefańczyk L, et al.
Klin Oczna 1996 Jan;98(1):51–3 (Eng. Abstr.) **(Pol)**

[Diagnosis of carotid–cavernous fistula using color Doppler ultrasonography] Chynoranský M, et al.
Cesk Slov Oftalmol 1997 May;53(2):112–6 (Eng. Abstr.) **(Slo)**

VIROLOGY

Human cytomegalovirus and restenosis of the internal carotid artery [see comments] Pauletto P, et al. **Stroke** 1996 Sep; 27(9):1669–71. Comment in: Stroke 1997 May;28(5):1088–90.

CAROTID ARTERY STENOSIS see **CAROTID STENOSIS**

CAROTID ARTERY THROMBOSIS

Reversibility of platelet thrombosis in vivo. Quantitative analysis in porcine carotid arteries. Wysokinski W, et al.
Thromb Haemost 1996 Dec;76(6):1108–13

DIAGNOSIS

The accessory middle cerebral artery as a collateral blood supply. Komiyama M, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):587–90

DRUG THERAPY

Antithrombotic activity of a 2–kDa heparin fragment in an experimental model of carotid artery thrombosis in rats. Guarini S, et al. **J Pharm Pharmacol** 1996 Apr;48(4):407–10

Platelet adhesion following the administration of tissue–type plasminogen activator and its reversal by vitamin E in rats. Jen CJ, et al. **Thromb Haemost** 1996 Jan;75(1):101–6

Prevention of early reocclusion after thrombolysis of copper coil–induced thrombi in the canine carotid artery: comparison of PEG–hirudin and unfractionated heparin. Rübsamen K, et al. **Thromb Haemost** 1996 Jul;76(1):105–10

ETIOLOGY

Carotid floating plaques associated with multiple cerebral embolic strokes. Case reports. Ko PT, et al. **Angiology** 1997 Mar;48(3):255–61

Penetrating intraoral trauma may occur in adults as well as children [letter; comment] Rayatt SS, et al. **BMJ** 1997 Apr 5;314(7086):1043. Comment on: BMJ 1997 Jan 4;314(7073):50–1.

Subacute thrombosis and vascular injury resulting from slotted–tube nitinol and stainless steel stents in a rabbit carotid artery model [published erratum appears in Circulation 1996 Nov 15;94(10):2668] Sheth S, et al.

Circulation 1996 Oct 1;94(7):1733–40
Neonatal cerebral arterial thrombosis: protein C deficiency. Gould RJ, et al. **J Child Neurol** 1996 May;11(3):250–2
Internal carotid artery thrombosis in a child secondary to intraoral trauma. Melio FR, et al. **J Emerg Med** 1996 Jul–Aug;14(4):429–33
Carotid artery thrombosis and stroke after blunt pharyngeal injury. Moriarty KP, et al. **J Trauma** 1997 Mar;42(3):541–3
Regarding "The endarterectomy-produced common carotid artery step: a harbinger of early emboli and late restenosis" [letter; comment] Stoney RJ. **J Vasc Surg** 1997 May; 25(5):958–9. Comment on: J Vasc Surg 1996 May;23(5):932–9.
[Intima flap of the external carotid and postoperative stroke in a patient surgically treated with thromboendarterectomy of the internal carotid] Pacini D, et al.
Minerva Cardioangiol 1996 Oct;44(10):511–4 (Eng. Abstr.) **(Ita)**

PATHOLOGY

A technique to investigate mural thrombus formation in small arteries and veins: I. Comparative morphometric and histological analysis. Stockmans F, et al.
Ann Plast Surg 1997 Jan;38(1):56–62

PHYSIOPATHOLOGY

The Fab-fragment of a PAI-1 inhibiting antibody reduces thrombus size and restores blood flow in a rat model of arterial thrombosis. van Giezen JJ, et al.
Thromb Haemost 1997 May;77(5):964–9

PREVENTION & CONTROL

A technique to investigate microvascular mural thrombus formation in arteries and veins: II. Effects of aspirin, heparin, r-hirudin, and G-4120. Stockmans F, et al.
Ann Plast Surg 1997 Jan;38(1):63–8
Prevention of arterial thrombosis using a novel heparin with enhanced antiplatelet activity and reduced anticoagulant activity. Poletti LF, et al. **J Vasc Surg** 1997 Sep; 26(3):366–72
Prevention of carotid artery thrombosis by oral platelet GPIIb/IIIa antagonist in dogs. Mousa SA, et al. **Stroke** 1997 Apr;28(4):830–5; discussion 835–6

THERAPY

Local intra-arterial fibrinolysis in thromboembolic "T" occlusions of the internal carotid artery. Urbach H, et al.
Neuroradiology 1997 Feb;39(2):105–10
Thrombolysis of the cervical internal carotid artery before balloon angioplasty and stent placement: report of two cases. Guterman LR, et al. **Neurosurgery** 1996 Mar; 38(3):620–3; discussion 624
The Fab-fragment of a PAI-1 inhibiting antibody reduces thrombus size and restores blood flow in a rat model of arterial thrombosis. van Giezen JJ, et al.
Thromb Haemost 1997 May;77(5):964–9
[A case of acute occlusion of the cervical portion of the right internal carotid artery with successful stepwise vascular dilatation by rescue PTA and deferred PTA] Suga T, et al. **No Shinkei Geka** 1996 Dec;24(12):1101–6 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

The intravascular mobile structure detected with duplex carotid ultrasound in patients with cardioembolic carotid artery occlusion [letter] [see comments] Kimura K, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1390–1. Comment in: AJNR Am J Neuroradiol 1997 Aug;18(7):1391–2.
The intravascular mobile structure detected with duplex carotid ultrasound in patients with cardioembolic carotid artery occlusion [letter; comment] Ullrich CG.
AJNR Am J Neuroradiol 1997 Aug;18(7):1391–2. Comment on: AJNR Am J Neuroradiol 1997 Aug;18(7):1390–1.
A mobile lesion in the carotid artery. Stewart J, et al.
Aust N Z J Surg 1996 Sep;66(9):639–41
Preventing strokes associated with carotid endarterectomy: detection of embolisation by transcranial Doppler monitoring [editorial] Gaunt ME, et al.
Eur J Vasc Endovasc Surg 1997 Jul;14(1):1–3
Microembolization from a carotid mural thrombus detected by transcranial Doppler. Solaro M, et al.
Ital J Neurol Sci 1996 Feb;17(1):75–8
In vivo detection of carotid plaque thrombus by ultrasonic tissue characterization. Noritomi T, et al.
J Ultrasound Med 1997 Feb;16(2):107–11
Carotid plaque typing by multiple-parameter ultrasonic tissue characterization. Noritomi T, et al.
Ultrasound Med Biol 1997;23(5):643–50
[Ultrasonic quantification, value of color and contribution of transcranial Doppler sonography in carotid artery surgery] Berni A, et al. **Minerva Cardioangiol** 1996 May; 44(5):247–55 (Eng. Abstr.) **(Ita)**
[Detection of microemboli in patients with extracranial carotid artery stenosis by transcranial Doppler sonography] Akiyama Y, et al. **No Shinkei Geka** 1997 Jan;25(1):41–5 (Eng. Abstr.) **(Jpn)**
[The intravascular mobile structure detected by duplex carotid ultrasonography in cardioembolic internal carotid artery occlusion (published erratum appears in Rinsho Shinkeigaku 1996 Nov;36(11):inside front cover)] Yonemura K, et al. **Rinsho Shinkeigaku** 1996 Oct; 36(10):1125–8 (Eng. Abstr.) **(Jpn)**

CAROTID BODY

see related
CAROTID BODY TUMOR

ANATOMY & HISTOLOGY

Two morphological types of chemoreceptor afferents innervate the rabbit carotid body. Torrealba F.
Adv Exp Med Biol 1996;410:51–4
Unilateral anomalous left common carotid artery; a case report. Kaneko K, et al. **Anat Anz** 1996 Oct;178(5):477–80

BLOOD SUPPLY

Weibel-Palade bodies as a storage site of calcitonin gene-related peptide and endothelin-1 in blood vessels of the rat carotid body. Ozaka T, et al. **Anat Rec** 1997 Mar; 247(3):388–94

CHEMISTRY

Localization of nicotinic acetylcholine receptors in cat carotid body and petrosal ganglion. Ishizawa Y, et al.
Adv Exp Med Biol 1996;410:253–6
Photochemical action spectra, not absorption spectra, allow identification of the oxygen sensor in the carotid body. Lahiri S, et al. **Adv Exp Med Biol** 1996;410:65–71
Secretoneurin. A novel carotid body peptide. McQueen DS, et al. **Adv Exp Med Biol** 1996;410:329–33
Weibel-Palade bodies as a storage site of calcitonin gene-related peptide and endothelin-1 in blood vessels of the rat carotid body. Ozaka T, et al. **Anat Rec** 1997 Mar; 247(3):388–94
Glutamate in the glomus cells of the cat carotid body: immunocytochemistry and in vitro release. Torrealba F, et al. **Neurochem Int** 1996 May–Jun;28(5–6):625–31

CYTOLOGY

Immunohistochemical detection of atrial natriuretic peptide (ANP) in the chief cells of human carotid bodies. Benvenuti LA, et al. **Acta Histochem** 1996 Jan;98(1):89–92
Responses of cat petrosal ganglion neurons are modified by the presence of carotid body cells in tissue cultures. Alcayaga J, et al. **Adv Exp Med Biol** 1996;410:195–201
Co-cultures of rat petrosal neurons and carotid body type 1 cells. A model for studying chemosensory mechanisms. Zhong H, et al. **Adv Exp Med Biol** 1996;410:189–93
Role of basic FGF and oxygen in control of proliferation, survival, and neuronal differentiation in carotid body chromaffin cells. Nurse CA, et al. **Dev Biol** 1997 Apr 15; 184(2):197–206

DRUG EFFECTS

Carotid chemosensory response to caffeine in developing cats. Bairam A, et al. **Adv Exp Med Biol** 1996;410:79–82
Calcium-dependent O2 sensitivity of cat carotid body. Buerk DG, et al. **Adv Exp Med Biol** 1997;411:1–5
Acetylcholine elevates intracellular Ca2+ via muscarinic and nicotinic receptors in rat carotid body type I cells. Dasso LL, et al. **Adv Exp Med Biol** 1996;410:239–44
Cyclic nucleotide analogs do not interfere with hypoxic inhibition of K+ currents in isolated rat type I carotid body cells. Hatton CJ, et al. **Adv Exp Med Biol** 1996; 410:93–6
Effects of continuous intracarotid infusion of dopamine during long-term hypoxia in awake goats. Janssen PL, et al. **Adv Exp Med Biol** 1996;410:383–6
Modifications of carotid body CO2 chemosensitivity in vitro. Kumar P, et al. **Adv Exp Med Biol** 1996;410:203–10
Adenosine increases the cAMP content of the rat carotid body in vitro. Monteiro EC, et al. **Adv Exp Med Biol** 1996; 410:299–303
Effect of acetylcholine on intracellular calcium of carotid body cells of adult cats. Shirahata M, et al.
Adv Exp Med Biol 1996;410:257–60
Pituitary and adrenals are required for hyperglycemic reflex initiated by stimulation of CBR with cyanide. Alvarez-Buylla R, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R392–9
Effects of calcium on the electric coupling of carotid body glomus cells. Abudara V, et al. **Brain Res** 1996 Jun 24; 725(1):125–31
Thapsigargin enhances carotid body chemosensory discharge in response to hypoxia in zero [Ca2+]e: evidence for intracellular Ca2+ release. Lahiri S, et al. **Brain Res** 1996 Feb 12;709(1):141–4
Cat carotid body chemosensory discharge (in vitro) is insensitive to charybdotoxin. Osanai S, et al. **Brain Res** 1997 Feb 7;747(2):324–7
Further cholinergic aspects of carotid body chemotransduction of hypoxia in cats. Fitzgerald RS, et al. **J Appl Physiol** 1997 Mar;82(3):819–27
Prenatal cocaine exposure and postnatal hypoxia independently decrease carotid body dopamine in neonatal rats. Lipton JW, et al. **Neurotoxicol Teratol** 1996 May–Jun; 18(3):283–7

ENZYMOLOGY

Chronic hypoxia enhances expression of catecholamine biosynthesizing enzymes in rat carotid body. Hannhart B, et al. **Adv Exp Med Biol** 1996;410:275–7
Neuropeptide processing enzymes of the carotid body. Biochemical and immunological characterization of carboxypeptidase activity. Kumar GK.
Adv Exp Med Biol 1996;410:319–23
A phospholipase C inhibitor impedes the hypoxic ventilatory response in the cat. Pokorski M, et al.
Adv Exp Med Biol 1996;410:397–403
Peptidases of the peripheral chemoreceptors: biochemical, immunological, in vitro hydrolytic studies and electron microscopic analysis of neutral endopeptidase-like activity of the carotid body. Kumar GK. **Brain Res** 1997 Feb 14; 748(1–2):39–50

GROWTH & DEVELOPMENT

Mechanisms of carotid chemoreceptor resetting after birth. In vitro studies. Carroll JL, et al. **Adv Exp Med Biol** 1996; 410:73–7 (19 ref.)
Developmental expression of tyrosine hydroxylase, D2-dopamine receptor and substance P genes in the carotid body of the rat. Gauda EB, et al. **Neuroscience** 1996 Dec; 75(3):969–77

METABOLISM

Immunohistochemical detection of atrial natriuretic peptide (ANP) in the chief cells of human carotid bodies. Benvenuti LA, et al. **Acta Histochem** 1996 Jan;98(1):89–92
Dopamine D2 receptor mRNA isoforms expression in the carotid body and petrosal ganglion of developing rabbits. Bairam A, et al. **Adv Exp Med Biol** 1996;410:285–9
Calcium-dependent O2 sensitivity of cat carotid body. Buerk DG, et al. **Adv Exp Med Biol** 1997;411:1–5
Ca2+ channel currents in type I carotid body cells from normoxic and chronically hypoxic rats. Carpenter E, et al. **Adv Exp Med Biol** 1996;410:105–8
Evaluation of gene expression in the rat carotid body using the differential display technique. Chen J, et al.
Adv Exp Med Biol 1996;410:119–25
Expression and localization of enkephalin, substance P, and substance P receptor genes in the rat carotid body. Gauda EB, et al. **Adv Exp Med Biol** 1996;410:313–8
Is cytochrome P-450 involved in hypoxic inhibition of K+ currents in rat type I carotid body cells? Hatton CJ, et al. **Adv Exp Med Biol** 1996;410:89–92
Intracellular acidosis potentiates carotid chemoreceptor responses to hypoxia in the absence of CO2-HCO3-. Iturriaga R. **Adv Exp Med Biol** 1996;410:211–6 (20 ref.)
Cytochrome oxidase is the primary oxygen sensor in the cat carotid body. Lahiri S, et al. **Adv Exp Med Biol** 1996; 388:213–7
Intracellular Ca2+ deposits and catecholamine secretion by chemoreceptor cells of the rabbit carotid body. Obeso A, et al. **Adv Exp Med Biol** 1996;410:279–84
Carbon monoxide and carotid body chemoreception. Overholt JL, et al. **Adv Exp Med Biol** 1996;410:341–4
Carotid body dopamine content and release by short-term hypoxia: effect of haloperidol and alpha methyl paratyrosine. Basson H, et al. **Arch Physiol Biochem** 1997 Feb;105(1):3–9
Heterogeneity in cytosolic calcium responses to hypoxia in carotid body cells. Bright GR, et al. **Brain Res** 1996 Jan 15;706(2):297–302
Precise coexistence of regulatory peptides in the nerve fibers of the amphibian carotid labyrinth demonstrated by a combination of double immunofluorescence labelling and a multiple dye filter. Kusakabe T, et al. **Brain Res** 1996 Oct 7;735(2):307–10
CO interact with intracellular [H+] with and without CO2-HCO3- in the cat carotid chemosensory discharge. Osanai S, et al. **Brain Res** 1997 Aug 1;764(1–2):221–4
Peripheral chemosensitivity and central integration: neuroplasticity of catecholaminergic cells under hypoxia. Soulier V, et al. **Comp Biochem Physiol A Physiol** 1997 Sep;118(1):1–7
Cholera and pertussis toxins reveal multiple regulation of cAMP levels in the rabbit carotid body. Cachero TG, et al. **Eur J Neurosci** 1996 Nov;8(11):2320–7
cAMP production in rabbit carotid body: role of adenosine. Chen J, et al. **J Appl Physiol** 1997 Jun;82(6):1771–5
Increased calcium current in carotid body glomus cells following in vivo acclimatization to chronic hypoxia. Hempleman SC. **J Neurophysiol** 1996 Sep;76(3):1880–6
A novel oxygen-sensitive potassium current in rat carotid body type I cells. Buckler KJ. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):649–62
Muscarinic and nicotinic receptors raise intracellular Ca2+ levels in rat carotid body type I cells. Dasso LL, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):327–38
Developmental changes in isolated rat type I carotid body cell K+ currents and their modulation by hypoxia. Hatton CJ, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):49–58
Properties of ionic currents from isolated adult rat carotid body chemoreceptor cells: effect of hypoxia. López-López JR, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):429–41
Assessment of evidence for K+-H+ exchange in isolated type-1 cells of neonatal rat carotid body. Richmond PH, et al. **Pflugers Arch** 1997 Aug;434(4):429–37
Cellular mechanisms of oxygen chemoreception in the carotid

body. Gonzalez C, et al. **Respir Physiol** 1995 Dec; 102(2-3):137-47 (38 ref.)
Hypoxia depletes ascorbate in the cat carotid body. Pokorski M, et al. **Respir Physiol** 1997 Mar;107(3):213-8
Modulation by "central" PCO2 of the response to carotid body stimulation in man. Roberts CA, et al. **Respir Physiol** 1995 Dec;102(2-3):149-61

PATHOLOGY

Peripheral chemoreceptors in congenital central hypoventilation syndrome. Cutz E, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):358-63
Fine-needle aspiration diagnosis of carotid body tumor: report of a case and review of experience with cytologic features in four cases. Das DK, et al. **Diagn Cytopathol** 1997 Aug;17(2):143-7
Sudden cardiac death in the indeterminate phase of Chagas' disease associated with acute infarction of the right carotid body. Ramos SG, et al. **Int J Cardiol** 1995 Dec;52(3):265-8
[A case of glomus caroticum malignum] Namysłowski G, et al. **Otolaryngol Pol** 1995;49(6):593-7 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Effects of hypoxia on the intercellular channel activity of cultured glomus cells. Abudara V, et al. **Adv Exp Med Biol** 1996;410:151-8 (18 ref.)
Coherence of chemosensory discharges in cats' carotid nerves. Cooperative inputs or redundant afferences? Alcayaga J, et al. **Adv Exp Med Biol** 1996;410:349-56
Functional activation of cerebral glucose uptake after carotid body stimulation. Alvarez-Buylla R, et al. **Adv Exp Med Biol** 1996;410:411-20
Dynamic sensitivity of carotid chemoreceptors to CO2 in the newborn lamb. Calder N, et al. **Adv Exp Med Biol** 1996;410:391-6
Role of carotid bodies in the guinea-pig. Cragg PA, et al. **Adv Exp Med Biol** 1996;410:377-81
Generation of interspike intervals of rat carotid body chemoreceptors. Donnelly DF. **Adv Exp Med Biol** 1996; 410:169-74
The role of carotid body CO2 during ventilatory acclimatization to hypoxia in the goat. Dwinell MR, et al. **Adv Exp Med Biol** 1996;410:387-90
Modelling the peripheral chemosensory drive of ventilation on basis of homogenous sensory units. Eugenín J. **Adv Exp Med Biol** 1996;410:405-10
Reflections on the carotid nerve sensory discharge and coupling between glomus cells. Eyzaguirre C, et al. **Adv Exp Med Biol** 1996;410:159-67 (26 ref.)
The presynaptic component of a cholinergic mechanism in the carotid body chemotransduction of hypoxia in the cat. Fitzgerald RS, et al. **Adv Exp Med Biol** 1996;410:245-52
Modulation of voltage-gated Ca2+ channels by O2 tension. Significance for arterial oxygen chemoreception. Franco-Obregón A, et al. **Adv Exp Med Biol** 1996; 410:97-103 (283 ref.)
Endothelin ·modulates chemoreceptor cell function in mammalian carotid body. He L, et al. **Adv Exp Med Biol** 1996;410:305-11
The coupling between intracellular pH, ion transport, and chemosensory discharge. Iturriaga R, et al. **Adv Exp Med Biol** 1996;410:175-80
Carotid chemoreflex. Neural pathways and transmitters. Sapru HN. **Adv Exp Med Biol** 1996;410:357-64 (22 ref.)
Prolegomena. Chemoreception upstream of transmitters. Torrance RW. **Adv Exp Med Biol** 1996;410:13-38 (49 ref.)
A tribute to Fernando de Castro on the centennial of his birth. Vial JD. **Adv Exp Med Biol** 1996;410:1-11
Domperidone as a tool to assess the role of dopamine within carotid body chemoreception. Zapata P, et al. **Adv Exp Med Biol** 1996;410:291-7 (36 ref.)
Peripheral chemoreflex in chronic heart failure: friend and foe [editorial] Chugh SS, et al. **Am Heart J** 1996 Oct; 132(4):900-4 (42 ref.)
Mechanisms of alpha2-adrenoceptor-mediated inhibition in rabbit carotid body. Almaraz L, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C628-37
NMDA as well as non-NMDA receptors in phrenic nucleus mediate respiratory effects of carotid chemoreflex. Chitravanshi VC, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R302-10
Effects of cytochrome P-450 inhibitors on ionic currents in isolated rat type I carotid body cells. Hatton CJ, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C85-92
Role of serotonin3 receptors in the nucleus tractus solitarii on the carotid chemoreflex. Sévoz C, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1250-9
O2-sensing mechanisms in excitable cells: role of plasma membrane K+ channels. Haddad GG, et al. **Annu Rev Physiol** 1997;59:23-42 (73 ref.)
Two types of voltage-gated K channels in carotid body cells of adult cats. Chou CL, et al. **Brain Res** 1996 Dec 2; 742(1-2):34-42
Evidence for two types of nicotinic receptors in the cat carotid body chemoreceptor cells. Obeso A, et al. **Brain Res** 1997 Apr 18;754(1-2):298-302
Ca2+ channel currents in type I carotid body cells of normoxic and chronically hypoxic neonatal rats. Peers C, et al. **Brain Res** 1996 Nov 11;739(1-2):251-7
Electrochemical detection of K(+)-evoked quantal secretory events from isolated rat type I carotid body cells. Hatton CJ, et al. **Exp Physiol** 1997 Mar;82(2):415-8
Adaptation to hypercapnia vs. intracellular pH in cat carotid body: responses in vitro. Lahiri S, et al. **J Appl Physiol** 1996 Apr;80(4):1090-9
"Adaptation to hypercapnia vs. intracellular pH in cat carotid body: responses in vitro" [editorial] Nattie E. **J Appl Physiol** 1996 Apr;80(4):1088-9
Potential role of H2O2 in chemoreception in the cat carotid body. Osanai S, et al. **J Auton Nerv Syst** 1997 Mar 19; 63(1-2):39-45
Dopaminergic properties of cultured rat carotid body chemoreceptors grown in normoxic and hypoxic environments. Jackson A, et al. **J Neurochem** 1997 Aug; 69(2):645-54
Development of carotid chemoreceptor dynamic and steady-state sensitivity to CO2 in the newborn lamb. Calder NA, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):187-94
Dissociation of hypoxia-induced chemosensory responses and catecholamine efflux in cat carotid body superfused in vitro. Iturriaga R, et al. **J Physiol (Lond)** 1996 Dec 1; 497 (Pt 2):551-64
Reflex cardiac dromotropic responses to stimulation of the carotid and aortic chemoreceptors in the anaesthetized cat. Jones JF, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):461-7
Integrated phrenic responses to carotid afferent stimulation in adult rats following perinatal hyperoxia. Ling L, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):787-96
Inspiratory drive and phase duration during carotid chemoreceptor stimulation in the cat: medullary neurone correlations. Morris KF, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):241-59
Extracellular potassium and chemosensitivity in the rat carotid body, in vitro. Pepper DR, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):833-43
Hypoxic inhibition of K+ currents in isolated rat type I carotid body cells: evidence against the involvement of cyclic nucleotides. Hatton CJ, et al. **Pflugers Arch** 1996 Nov-Dec;433(1-2):129-35
[Effect of carotid glomectomy on red blood cells parameters of rats depending on individual resistance to acute hypoxia] Shevchenko LV, et al. **Biull Eksp Biol Med** 1996 Jul; 122(7):12-3 **(Rus)**

PHYSIOPATHOLOGY

Role of potassium channels in hypoxic chemoreception in rat carotid body type-I cells. Buckler KJ. **Adv Exp Med Biol** 1996;410:83-7
Neurogenic inflammation. A model for studying efferent actions of sensory nerves. McDonald DM, et al. **Adv Exp Med Biol** 1996;410:453-62 (68 ref.)
Interaction between the bradycardic responses to upper airway negative pressure and carotid chemoreceptor stimulation in the anaesthetised rabbit. Nolan P, et al. **Adv Exp Med Biol** 1996;410:431-7
Thapsigargin enhances carotid body chemosensory discharge in response to hypoxia in zero [Ca2+]e: evidence for intracellular Ca2+ release. Lahiri S, et al. **Brain Res** 1996 Feb 12;709(1):141-4
Heart rate during obstructive sleep apnea depends on individual hypoxic chemosensitivity of the carotid body. Sato F, et al. **Circulation** 1997 Jul 1;96(1):274-81
Influence of reduced carotid body drive during sustained hypoxia on hypoxic depression of ventilation in humans. Dahan A, et al. **J Appl Physiol** 1996 Aug;81(2):565-72
Effects of carotid body hypocapnia during ventilatory acclimatization to hypoxia. Dwinell MR, et al. **J Appl Physiol** 1997 Jan;82(1):118-24
Role of carotid body activity responsible for hypoxic ventilatory decline in awake humans [letter; comment] Honda Y, et al. **J Appl Physiol** 1997 Jan;82(1):371. Comment on: J Appl Physiol 1995 Aug;79(2):373-4.
Ventilatory effects of specific carotid body hypocapnia and hypoxia in awake dogs. Smith CA, et al. **J Appl Physiol** 1997 Mar;82(3):791-8
Long-term influence of neonatal hypoxia on catecholamine activity in carotid bodies and brainstem cell groups of the rat. Soulier V, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):523-30

RADIONUCLIDE IMAGING

Indium In-111 pentetreotide scintigraphy: application to carotid body tumors. Hammond SL, et al. **J Vasc Surg** 1997 May;25(5):905-8

SECRETION

Release of acetylcholine from the in vitro cat carotid body. Fitzgerald RS, et al. **Adv Exp Med Biol** 1996;410:227-32
Catecholamine secretion from glomus cells is dependent on extracellular bicarbonate. Panisello JM, et al. **Adv Exp Med Biol** 1996;410:267-73
Release of acetylcholine from cultured cat and pig glomus cells. Shirahata M, et al. **Adv Exp Med Biol** 1996;410:233-7
Depolarization is a critical event in hypoxia-induced glomus cell secretion. Weiss N, et al. **Adv Exp Med Biol** 1996; 410:181-7
Dopamine efflux from the carotid body during hypoxic stimulation. Zapata P, et al. **Adv Exp Med Biol** 1996; 410:261-6

SURGERY

Blood pressure after bilateral carotid surgery [letter; comment] Harper R, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):513-4. Comment on: Eur J Vasc Endovasc Surg 1995 Apr;9(3):346-8.

ULTRASTRUCTURE

Re-examination of the carotid body ultrastructure with special attention to intercellular membrane appositions. Kondo H, et al. **Adv Exp Med Biol** 1996;410:45-50
Mitochondrial division, blood vessel dilation, and large intercellular space expansion of goat carotid body during hypoxia. Xue D, et al. **Adv Exp Med Biol** 1996;410:55-8
Immunoelectron microscopic localization of vimentin in sustentacular cells of the carotid body and the adrenal medulla of guinea pigs. Kameda Y. **J Histochem Cytochem** 1996 Dec;44(12):1439-49

CAROTID BODY TUMOR

[Carotid body tumor] Lotina S, et al. **Srp Arh Celok Lek** 1997 Sep-Oct;125(9-10):278-84 (Eng. Abstr.) **(Scc)**

COMPLICATIONS

Syncope caused by carotid body tumor. Vincelj J, et al. **Acta Med Croatica** 1996;50(4-5):213-5
Carotid body paraganglioma in von Hippel-Lindau disease: a rare association. Zanelli M, et al. **Histopathology** 1996 Aug;29(2):178-81
Benign carotid body tumor presenting with Horner's syndrome. A case report. Sankar NM, et al. **Tex Heart Inst J** 1996;23(2):180-2
[Bilateral glomus tumors with a blood pressure regulation disorder due to baroreceptor dysfunction] Hausmann ON, et al. **Dtsch Med Wochenschr** 1997 Feb 28;122(9):253-8 (21 ref.) (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Head and neck case of the day. Carotid body tumor. Lanzieri CF. **AJR Am J Roentgenol** 1997 Jul;169(1):277, 280-2
Diagnostic and therapeutic approaches to carotid body tumors. Review of 24 patients. Muhm M, et al. **Arch Surg** 1997 Mar;132(3):279-84 (47 ref.)
A case report of carotid body tumor. Kojya S, et al. **Auris Nasus Larynx** 1997 Apr;24(2):211-6
Carotid body tumor with concurrent masticatory pain dysfunction. Roistacher SL. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):10-3
Perioperative strategies in the management of carotid body tumors. Leonetti JP, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):111-5
A left sided neck mass. Paterson A, et al. **Ulster Med J** 1996 Nov;65(2):162-4
[Chemodectoma secreting carotid glomus: characteristics and contribution of magnetic resonance imaging. Apropos of 2 cases] Pichard C, et al. **Ann Endocrinol (Paris)** 1996; 57(5):439-42 (Eng. Abstr.) **(Fre)**
[An often misdiagnosed cervical mass: carotid chemodectoma] Defraigne JO, et al. **Rev Med Liege** 1997; 52(7):485-97 (34 ref.) **(Fre)**
[Interesting case no. 2. Right glomus caroticum tumor] Stöver T, et al. **Laryngorhinootologie** 1997 May;76(5):332-4 **(Ger)**

GENETICS

Malignant familial glomus jugulare and contralateral carotid body tumor. Gardner PA, et al. **Am J Otolaryngol** 1997 Jul-Aug;18(4):269-73

PATHOLOGY

Fine-needle aspiration diagnosis of carotid body tumor: report of a case and review of experience with cytologic features in four cases. Das DK, et al. **Diagn Cytopathol** 1997 Aug;17(2):143-7
[A case of glomus caroticum malignum] Namysłowski G, et al. **Otolaryngol Pol** 1995;49(6):593-7 (Eng. Abstr.) **(Pol)**
[Carotid chemodectoma] Pons Rocher F, et al. **An Otorrinolaringol Ibero Am** 1997;24(1):15-25 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Case quiz. Carotid body tumor. Peh WC, et al. **Australas Radiol** 1997 May;41(2):221-2
Chemodectoma in a patient with a single ventricle. Wilmshurst P, et al. **Heart** 1997 Apr;77(4):385
Clinics in diagnostic imaging (15). Carotid body tumour. Lam PW, et al. **Singapore Med J** 1996 Aug;37(4):430-2 (10 ref.)

RADIONUCLIDE IMAGING

Indium In-111 pentetreotide scintigraphy: application to carotid body tumors. Hammond SL, et al. **J Vasc Surg** 1997 May;25(5):905-8

SECRETION

[Chemodectoma secreting carotid glomus: characteristics and contribution of magnetic resonance imaging. Apropos of

2 cases] Pichard C, et al. **Ann Endocrinol (Paris)** 1996; 57(5):439–42 (Eng. Abstr.) **(Fre)**

SURGERY

Characteristics, surgical management, and outcome in 17 carotid body tumors. Mitchell RO, et al. **Am Surg** 1996 Dec;62(12):1034–7

Diagnostic and therapeutic approaches to carotid body tumors. Review of 24 patients. Muhm M, et al. **Arch Surg** 1997 Mar;132(3):279–84 (47 ref.)

Arterial and venous paragangliomas: the value of a preoperative pacemaker and a multidisciplinary approach. al-Ebrahim K, et al. **Br J Neurosurg** 1997 Jun;11(3):233–7

Perioperative strategies in the management of carotid body tumors. Leonetti JP, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):111–5

[Preoperative angiographic embolization of carotid glomus tumors. A method for improving operability] Fruhwirth J, et al. **HNO** 1996 Sep;44(9):510–3 (Eng. Abstr.) **(Ger)**

[An interdisciplinary therapy concept in treatment of paragangliomas of the skull base--demonstrated with a case] Fruhwirth J, et al. **Zentralbl Neurochir** 1996; 57(4):196–200 (Eng. Abstr.) **(Ger)**

THERAPY

Preoperative embolization of carotid body tumors: when is it appropriate? Litle VR, et al. **Ann Vasc Surg** 1996 Sep; 10(5):464–8

[An often misdiagnosed cervical mass: carotid chemodectoma] Defraigne JO, et al. **Rev Med Liege** 1997; 52(7):485–97 (34 ref.) **(Fre)**

[Combined embolization and surgery of paragangliomas of the glomus caroticum. Report of a case and review of literature] Lavold E, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2449–51 (Eng. Abstr.) **(Nor)**

ULTRASONOGRAPHY

[The role of color duplex ultrasound in diagnosis and differential diagnosis of carotid body tumors] Schreiber J, et al. **Laryngorhinootologie** 1996 Feb;75(2):100–4 (Eng. Abstr.) **(Ger)**

[Echo-color Doppler and echo-Doppler in the diagnosis of carotid body tumors] Presutti L, et al. **Acta Otorhinolaryngol Ital** 1995 Apr;15(2):107–11 (Eng. Abstr.) **(Ita)**

CAROTID ENDARTERECTOMY see **ENDARTERECTOMY, CAROTID**

CAROTID SINUS

see related

PRESSORECEPTORS

Traumatic carotid-cavernous sinus fistula with spontaneous resolution. Ferrera PC. **Am J Emerg Med** 1997 Jul; 15(4):386–8

A study comparing VVI and DDI pacing in elderly patients with carotid sinus syndrome. McIntosh SJ, et al. **Heart** 1997 Jun;77(6):553–7

The effects of carotid sinus nerve blockade on hemodynamic stability after carotid endarterectomy. Gottlieb A, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):67–71

Modification of ventricular tachycardia by carotid sinus massage. Kappos KG, et al. **J Electrocardiol** 1996 Oct; 29(4):327–32 (32 ref.)

An 85-year-old women with a history of falls [letter; comment] Landau WM. **JAMA** 1996 Nov 6;276(17):1383; discussion 1383–4. Comment on: JAMA 1996 Jul 3;276(1):59–66.

[Carotid sinus syndrome associated with a left parapharyngeal non-Hodgkin's lymphoma] Rusconi L, et al. **G Ital Cardiol** 1996 Jun;26(6):681–7 (Eng. Abstr.) **(Ita)**

ANATOMY & HISTOLOGY

Mapping of carotid baroreceptor subtype projections to the nucleus tractus solitarius using c-fos immunohistochemistry. Dean C, et al. **Brain Res** 1997 May 30;758(1–2):201–8

INNERVATION

Baroreflex frequency-response characteristics to aortic depressor and carotid sinus nerve stimulation in rats. Fan W, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2218–27

Roles of carotid baroreceptor and cardiac afferents in hemodynamic responses to acute central hypovolemia. Ludbrook J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1538–48

Convergent carotid sinus nerve and superior laryngeal nerve afferent inputs to neurons in the NTS. Mifflin SW. **Am J Physiol** 1996 Oct;271(4 Pt 2):R870–80

Effects of combined carotid sinus and aortic depressor nerve denervations in neonatal rat pups. Shair HN, et al. **Biol Neonate** 1997;71(4):251–64

The effect of carotid sinus denervation on fetal heart rate variation in normoxia, hypoxia and post-hypoxia in fetal sheep. Kozuma S, et al. **Br J Obstet Gynaecol** 1997 Apr; 104(4):460–5

Reflex vascular responses from aortic arch, carotid sinus and coronary baroreceptors in the anaesthetized dog. McMahon NC, et al. **Exp Physiol** 1996 May;81(3):397–408

Effects of caffeine on carotid sinus nerve chemosensory discharge in kittens and cats. Bairam A, et al. **J Appl Physiol** 1997 Feb;82(2):413–8

Modeling neural mechanisms for genesis of respiratory rhythm and pattern. III. Comparison of model performances during afferent nerve stimulation. Rybak IA, et al. **J Neurophysiol** 1997 Apr;77(4):2027–39

[Carotid baroreflex in sleep apnea patients] Klawe JJ, et al. **Pneumologie** 1997 Aug;51 Suppl 3:744–6 (Eng. Abstr.) **(Ger)**

METABOLISM

Precise coexistence of regulatory peptides in the nerve fibers of the amphibian carotid labyrinth demonstrated by a combination of double immunofluorescence labelling and a multiple dye filter. Kusakabe T, et al. **Brain Res** 1996 Oct 7;735(2):307–10

Gene transfer to carotid sinus in vivo: a novel approach to investigation of baroreceptors. Meyrelles SS, et al. **Hypertension** 1997 Sep;30(3 Pt 2):708–13

PHYSIOLOGY

Invariance of the resistance to venous return to carotid sinus baroreflex control. Hatanaka T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1022–30

Closed-loop identification of carotid sinus baroreflex open-loop transfer characteristics in rabbits. Kawada T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H1024–31

Inhibition of NO synthesis does not potentiate dynamic cardiovascular response to sympathetic nerve activity. Miyano H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H38–43

Effect of arterial compliance on carotid sinus baroreceptor reflex control of the circulation. Potts JT, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H988–1000

Baroreceptors in the carotid sinus contribute to arterial baroreceptor reflexes in normotensive rats. Ohta H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S62–3

The role of carotid chemoreceptors in the effects of hypoxia on renal blood flow in the late gestation sheep fetus. Green LR, et al. **Exp Physiol** 1997 Jan;82(1):183–92

Interaction between carotid and cardiopulmonary baroreflexes [letter; comment] Halliwill JR, et al. **J Appl Physiol** 1997 Feb;82(2):716–8. Comment on: J Appl Physiol 1996 Jun;80(6):1903–10.

Muscle chemoreflex alters carotid sinus baroreflex response in humans. Papelier Y, et al. **J Appl Physiol** 1997 Feb; 82(2):577–83

Simultaneous encoding of carotid sinus pressure and dP/dt by NTS target neurons of myelinated baroreceptors. Rogers RF, et al. **J Neurophysiol** 1996 Oct;76(4):2644–60

Effects of vagal and carotid chemoreceptor afferents on the frequency and pattern of spontaneous augmented breaths in rabbits. Matsumoto S, et al. **Lung** 1997;175(3):175–86

Unilateral carotid sinus stimulation and muscle sympathetic nerve activity in man. Williamson JW, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):815–21

Systemic hypoxia facilitates somato-cardiac sympathetic A- and C-reflexes in anesthetized rats. Li WM, et al. **Neurosci Lett** 1996 Oct 4;216(3):175–8

Lack of nitric oxide sensitivity of carotid sinus baroreceptors activated by normal blood pressure stimuli in cats. Zanzinger J, et al. **Neurosci Lett** 1996 Apr 19;208(2):121–4

The heart rate response to carotid artery massage in a sample of healthy elderly people. Jeffreys M, et al. **Pacing Clin Electrophysiol** 1996 Oct;19(10):1488–92

PHYSIOPATHOLOGY

Assessment of a newly recognized association. Carotid sinus hypersensitivity and denervation of sternocleidomastoid muscles. Blanc JJ, et al. **Circulation** 1997 Jun 3; 95(11):2548–51

Carotid sinus pressure: a new application of an old maneuver. A preliminary report. Raev D. **Int J Cardiol** 1996 Dec 13;57(3):241–4

Depressed baroreflex in heart failure is not due to structural change in carotid sinus nerve fibers. Wang W, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):101–8

Clinical experience with Thera DR rate-drop response pacing algorithm in carotid sinus syndrome and vasovagal syncope. The International Rate-Drop Investigators Group. Benditt DG, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):832–9

The rate-drop response in carotid sinus syndrome: the Newcastle experience. Bexton RS, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):840

Use of serotonin re-uptake inhibitors as primary therapy for carotid sinus hypersensitivity. Dan D, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1633–5

Cardiovascular syncope is the most common cause of drop attacks in the elderly. Dey AB, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):818–9

Prevalence of cardioinhibitory carotid sinus hypersensitivity in patients 50 years or over presenting to the accident and emergency department with "unexplained" or "recurrent" falls. Richardson DA, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):820–3

Central ANG II receptor involved in carotid sinus reflex resetting in chronically stressed rats. Qian ZM, et al. **Physiol Behav** 1997 Aug;62(2):241–7

[Hypersensitive carotid sinus syndrome] Sagara K. **Ryoikibetsu Shokogun Shirizu** 1996;(12):271–3 (6 ref.) **(Jpn)**

RADIATION EFFECTS

[The treatment of inflammatory suppurative-destructive processes of the maxillofacial area and neck by laser exposure of the carotid sinus] Zhizhina NA, et al. **Stomatologiia (Mosk)** 1996;Spec No:55–6 **(Rus)**

ULTRASONOGRAPHY

Orbital colour Doppler imaging in carotid-cavernous sinus fistula. Aung T, et al. **Aust N Z J Ophthalmol** 1996 May; 24(2):121–6

CAROTID STENOSIS

see related

ENDARTERECTOMY, CAROTID

Prevention of restenosis by gene therapy. Kaneda Y, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:299–308; discussion 308–10

BLOOD

Tryptophan and atherosclerosis. Baldo-Enzi G, et al. **Adv Exp Med Biol** 1996;398:429–32

Cerebral ischemic disorders and cerebral oxygen balance during cardiopulmonary bypass surgery: preoperative evaluation using magnetic resonance imaging and angiography. Goto T, et al. **Anesth Analg** 1997 Jan; 84(1):5–11

Relationship between lipoprotein (a) and both stroke and carotid atheroma. Markus HS, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):360–5

Correlates of uric acid and its association with asymptomatic carotid atherosclerosis: the ARIC Study. Atherosclerosis Risk in Communities. Iribarren C, et al. **Ann Epidemiol** 1996 Jul;6(4):331–40

Reduced CD8+ T-cell concentration in peripheral blood of patients with carotid artery stenosis: relation to arteritis temporalis. Elling P, et al. **Br J Rheumatol** 1996 Jul; 35(7):649–51

Intermediate-density lipoproteins and progression of carotid arterial wall intima-media thickness. Hodis HN, et al. **Circulation** 1997 Apr 15;95(8):2022–6

Deactivation of NO by polymorphonuclear leukocytes in patients with ischemic cerebral infarction [letter] Akopov SE, et al. **Stroke** 1996 Dec;27(12):2337–8

Flow-related anaerobic metabolic changes in patients with severe stenosis of the internal carotid artery. van der Grond J, et al. **Stroke** 1996 Nov;27(11):2026–32

CLASSIFICATION

Haemodynamic classification of symptomatic obstructive carotid artery disease. Sorteberg A, et al. **Acta Neurochir (Wien)** 1996;138(9):1079–86; discussion 1086–7

Pseudo- and segmental occlusion of the internal carotid artery: a new classification, surgical treatment and results. Kniemeyer HW, et al. **Eur J Vasc Endovasc Surg** 1996 Oct; 12(3):310–20

Carotid artery stenosis: external validity of the North American Symptomatic Carotid Endarterectomy Trial measurement method. Eliasziw M, et al. **Radiology** 1997 Jul;204(1):229–33

COMPLICATIONS

Infrarenal abdominal aortic aneurysm repair: detection and treatment of associated carotid and coronary lesions. Deville C, et al. **Ann Vasc Surg** 1997 Sep;11(5):467–72

Cardiac events after combined surgery for coronary and carotid artery disease. Perić M, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1074–9; discussion 1079–80

Carotid plaque [letter] [corrected and republished article originally printed in Eur J Vasc Endovasc Surg 1996 Feb;11(2):251–2] Volteas SK, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):258

Silent cerebral microembolism in asymptomatic and symptomatic carotid artery stenoses of low and high degree. Orlandi G, et al. **Eur Neurol** 1997;38(1):39–43

Fatal stroke in a patient with carotid and middle cerebral artery dissection associated with cystic medial necrosis [letter] Bähr M, et al. **J Neurol** 1996 Oct;243(10):722–3

Source of cerebral microembolic signals in occlusion of the internal carotid artery. Delcker A, et al. **J Neurol** 1997 May;244(5):312–7

Severe stenosis of the internal carotid artery is not associated with borderzone infarcts in patients randomised in the European Carotid Surgery Trial. Hupperts RM, et al. **J Neurol** 1997 Jan;244(1):45–50

Cost reduction by combined carotid endarterectomy and coronary bypass [letter; comment] Aru G. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):423–5. Comment on: J Thorac Cardiovasc Surg 1996 Jun;111(6):1185–92; discussion 1192–3.

Objective tinnitus resulting from internal carotid artery stenosis. Carlin RE, et al. **J Vasc Surg** 1997 Mar;25(3):581–3

Natural history and management of the asymptomatic, moderately stenotic internal carotid artery. Rockman CB, et al. **J Vasc Surg** 1997 Mar;25(3):423–31

Postprandial transient visual loss. A symptom of critical carotid stenosis. Levin LA, et al. **Ophthalmology** 1997 Mar; 104(3):397–401

Cerebrovascular accident in a 77–year–old man. Garcia–Monco JC, et al. **Postgrad Med J** 1997 Apr; 73(858):251–3

Carotid stenosis associated with atrial fibrillation. Ruivo A, et al. **Rev Neurol** 1996 Jan;24(125):55–8

Is impaired cerebral vasomotor reactivity a predictive factor of stroke in asymptomatic patients? Gur AY, et al. **Stroke** 1996 Dec;27(12):2188–90

Carotid artery intima–media thickness in elderly patients with NIDDM and in nondiabetic subjects. Niskanen L, et al. **Stroke** 1996 Nov;27(11):1986–92

Cytomegalovirus infection and restenosis [letter; comment] Numazaki K, et al. **Stroke** 1997 May;28(5):1088–90. Comment on: Stroke 1996 Sep;27(9):1669–71.

Concurrent aneurysm rupture and thrombosis of high grade internal carotid artery stenosis: report of two cases. Porter RW, et al. **Surg Neurol** 1997 Jun;47(6):532–9; discussion 539–40 (44 ref.)

Amaurosis fugax in the young. [Clinical Conference] Slavin ML. **Surv Ophthalmol** 1997 May–Jun;41(6):481–7

[Prevention and therapy of stroke] **Nervenarzt** 1994 May;65(5 Suppl):1–8 **(Ger)**

[Patients with carotid stenosis and clinical history negative for coronary disease. Usefulness of the ergometric test for the identification of ischemic myocardial disease] Sconocchini C, et al. **Minerva Med** 1997 May;88(5):173–81 (Eng. Abstr.) **(Ita)**

[The relation of retinal vascular occlusion and carotid artery stenosis] Tamiya R, et al. **Nippon Ganka Gakkai Zasshi** 1996 Nov;100(11):863–7 (Eng. Abstr.) **(Jpn)**

[Monoballism associated with internal carotid artery occlusion : a case report] Uno M, et al. **No Shinkei Geka** 1996 Feb;24(2):169–73 (Eng. Abstr.) **(Jpn)**

[A case of internal carotid artery occlusion with recurrent amaurosis fugax] Hashimoto Y, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1147–50 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Changes in the anterior segment of the eyeball as the first symptom of carotid artery occlusion] Chorabik E. **Klin Oczna** 1996 Feb;98(2):137–9 (Eng. Abstr.) **(Pol)**

[Hemi–neglect syndrome––case report] Seniów J, et al. **Neurol Neurochir Pol** 1997 Jan–Feb;31(1):145–53 (Eng. Abstr.) **(Pol)**

DIAGNOSIS

Perioperative imaging strategies for carotid endarterectomy: an analysis of morbidity and cost–effectiveness in symptomatic patients. Kallmes DF, et al. **Acad Radiol** 1996 Jun;3(6):520–2

Specificity of MR angiography as a confirmatory test of carotid artery stenosis. Kallmes DF, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1501–6

Re: Workup of carotid calcifications [letter; comment] Doris I, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):565. Comment on: AJR Am J Roentgenol 1996 Jun;166(6):1495–6.

The role of carotid bruit in screening for carotid stenosis [letter] Rea T. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):657–8

Non–invasive testing for cerebrovascular disease. Lord RS. **Cardiovasc Surg** 1996 Aug;4(4):424–37 (96 ref.)

Comparative study of magnetic resonance angiography, digital subtraction angiography, duplex ultrasound examination with surgical and histological findings of atherosclerotic carotid bifurcation disease. Liberopoulos K, et al. **Int Angiol** 1996 Jun;15(2):131–7

MR flow quantification using RACE: clinical application to the carotid arteries. Möller HE, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):503–12

Vasodilatory responses and magnetic resonance angiography. Extracranial and intracranial intravascular flow data. Levine RL, et al. **J Neuroimaging** 1997 Jul;7(3):152–8

What workup should we require for a patient who has had one TIA and demonstrates 80% carotid stenosis? Lee KS. **J Neurosurg Anesthesiol** 1996 Oct;8(4):305–7

Symptomatic carotid stenosis: precarotid endarterectomy evaluation [published erratum appears in J Neurosurg Anesthesiol 1997 Jan;9(1):109] Meissner I. **J Neurosurg Anesthesiol** 1996 Oct;8(4):308–9

Regarding "Evaluation of carotid artery stenosis: is duplex ultrasonography sufficient?" [letter; comment] Hartnell GG. **J Vasc Surg** 1997 May;25(5):959–60. Comment on: J Vasc Surg 1996 Jul;24(1):17–22; discussion 22–4.

Natural history and management of the asymptomatic, moderately stenotic internal carotid artery. Rockman CB, et al. **J Vasc Surg** 1997 Mar;25(3):423–31

3D gadolinium–enhanced MR angiography of the carotid arteries. Cloft HJ, et al. **Magn Reson Imaging** 1996; 14(6):593–600

Clinical problem–solving. A common clinical conundrum [see comments] Gray WA, et al. **N Engl J Med** 1997 Apr 3;336(14):1008–11. Comment in: N Engl J Med 1997 Aug 7;337(6);427; discussion 428. Comment in: N Engl J Med 1997 Aug 7;337(6):427–8.

Can noninvasive studies replace conventional angiography in the preoperative evaluation of carotid stenosis? De Marco JK, et al. **Neuroimaging Clin N Am** 1996 Nov; 6(4):911–29 (57 ref.)

Carotid stenosis. A neurologist's perspective. Wilterdink JL, et al. **Neuroimaging Clin N Am** 1996 Nov;6(4):831–41 (74 ref.)

Carotid MRA––what advantages do the turbo field–echo and 3D phase–contrast sequences offer? Benjamin MS, et al. **Neuroradiology** 1997 Jul;39(7):469–73

How should we estimate carotid stenosis using magnetic resonance angiography? [letter] Fox AJ. **Neuroradiology** 1997 Jul;39(7):532–3

Dynamic contrast–enhanced T2*–weighted MRI in patients with cerebrovascular disease. Reith W, et al. **Neuroradiology** 1997 Apr;39(4):250–7

How should we estimate carotid stenosis using magnetic resonance angiography? Vanninen RL, et al. **Neuroradiology** 1996 May;38(4):299–305

The role of duplex sonography and angiography in the investigation of carotid artery disease. Worthy SA, et al. **Neuroradiology** 1997 Feb;39(2):122–6

Oculopneumoplethysmography. Meissner I. **Neurosurg Clin N Am** 1996 Oct;7(4):571–6 (12 ref.)

Homocystinuria presenting as fatal common carotid artery occlusion. Lu CY, et al. **Pediatr Neurol** 1996 Sep; 15(2):159–62

High signal intensity on T2–weighted magnetic resonance imaging and cerebral hemodynamic reserve in carotid occlusive disease. Isaka Y, et al. **Stroke** 1997 Feb; 28(2):354–7

A comparison of intra–arterial digital subtraction angiography with Doppler sonography in the assessment of carotid arterial stenosis. Ellis PK, et al. **Ulster Med J** 1996 Nov;65(2):137–41

Laser Doppler flux in normal and arteriosclerotic carotid artery wall. Belcaro G, et al. **Vasa** 1996;25(3):221–5

[Conventional magnetic resonance angiography and contrast enhanced magnetic resonance angiography of extracranial blood vessel segments] Boos M, et al. **Radiologe** 1997 Jul; 37(7):515–28 (Eng. Abstr.) **(Ger)**

[MR angiography of the carotid arteries using 3D TOF technique with sagittal double–volume acquisition using a new head–neck coil] Link J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):544–50 (Eng. Abstr.) **(Ger)**

[Perioperative evaluation of internal carotid artery stenoses: value of multislab MR angiography] Vogl TJ, et al. **Zentralbl Chir** 1996;121(12):1023–32 (Eng. Abstr.) **(Ger)**

[Diagnosing stenosis of the of the internal carotid artery, noninvasive studies, invasive studies and intraoperative results] Myrcha P, et al. **Pol Tyg Lek** 1996 Mar; 51(10–13):153–5 **(Pol)**

[The diagnosis and treatment of chronic cerebrovascular insufficiency in atherosclerotic stenosis or occlusion of the carotid artery] Zubkov IuN, et al. **Vestn Khir Im I I Grek** 1997;156(3):15–8 (Eng. Abstr.) **(Rus)**

[Traumatic pathology of the intracranial carotid vascular system during childhood: presentation of two cases and outline of an anatomical–clinical classification scheme] Serrano–Castro PJ, et al. **An Esp Pediatr** 1996 Aug; 45(2):181–84 **(Spa)**

DRUG THERAPY

Cytotoxic effect of photodynamic therapy with Photofrin II on intimal hyperplasia. Eton D, et al. **Ann Vasc Surg** 1996 May;10(3):273–82

US National Survey of Physician Practices for the Secondary and Tertiary Prevention of Ischemic Stroke. Medical therapy in patients with carotid artery stenosis. Goldstein LB, et al. **Stroke** 1996 Sep;27(9):1473–8

ECONOMICS

Cost–effectiveness of carotid endarterectomy in asymptomatic patients. Cronenwett JL, et al. **J Vasc Surg** 1997 Feb;25(2):298–309; discussion 310–1

Cost–effectiveness of screening for asymptomatic carotid atherosclerotic disease. Derdeyn CP, et al. **Stroke** 1996 Nov;27(11):1944–50

ENZYMOLOGY

[Metalloproteinase in carotid endarterectomy plaques: increased activity in critical stenosis zones] Mertens R, et al. **Rev Med Chil** 1996 Jun;124(6):669–74 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Asymptomatic cervical artery stenoses in Moscow. Harer C, et al. **Acta Neurol Scand** 1996 Apr;93(4):286–90

Current estrogen–progestin and estrogen replacement therapy in elderly women: association with carotid atherosclerosis. CHS Collaborative Research Group. Cardiovascular Health Study. Jonas HA, et al. **Ann Epidemiol** 1996 Jul;6(4):314–23

Asymptomatic carotid artery stenosis screening in patients with lower extremity atherosclerosis: a prospective study. de Virgilio C, et al. **Ann Vasc Surg** 1997 Jul;11(4):374–7

Intimal–medial thickness of the carotid artery in nondiabetic and NIDDM patients. Relationship with insulin resistance. Bonora E, et al. **Diabetes Care** 1997 Apr;20(4):627–31

Carotid artery stenosis is related to blood glucose level in an elderly Caucasian population: the Hoorn Study. Beks PH, et al. **Diabetologia** 1997 Mar;40(3):290–8

ETIOLOGY

Regarding "The endarterectomy–produced common carotid artery step: a harbinger of early emboli and late restenosis" [letter; comment] Stoney RJ. **J Vasc Surg** 1997 May; 25(5):958–9. Comment on: J Vasc Surg 1996 May;23(5):932–9.

Carotid artery occlusion following a karate punch to the neck. Blumenthal DT, et al. **Mil Med** 1996 Sep;161(9):562–3

Cumulative effects of high cholesterol levels, high blood pressure, and cigarette smoking on carotid stenosis. Wilson PW, et al. **N Engl J Med** 1997 Aug 21;337(8):516–22

Anterior ischemic optic neuropathy associated with pulseless disease. Kimura H, et al. **Ophthalmologica** 1995; 209(6):346–8

Anastomosis between the internal carotid and vertebral artery in the neck. Papon X, et al. **Surg Radiol Anat** 1995; 17(4):335–7

GENETICS

Deletion polymorphism in angiotensin converting enzyme gene associated with carotid wall thickening in a healthy male population. Pujia A, et al. **Coron Artery Dis** 1996 Jan;7(1):51–5

METABOLISM

Expression of collagen, interstitial collagenase, and tissue inhibitor of metalloproteinases–1 in restenosis after carotid endarterectomy. Nikkari ST, et al. **Am J Pathol** 1996 Mar; 148(3):777–83

Cerebral oligemic hypoxia and iron toxicity in the mesolimbic system of rats. Heim C, et al. **J Neural Transm Suppl** 1995; 46:165–73

MICROBIOLOGY

Endovascular presence of Chlamydia pneumoniae in patients with hemodynamically effective carotid artery stenosis. Maass M, et al. **Angiology** 1997 Aug;48(8):699–706

PATHOLOGY

Geometric characterization of stenosed human carotid arteries [published erratum appears in Acad Radiol 1997 Apr;4(4):263] Smith RF, et al. **Acad Radiol** 1996 Nov; 3(11):898–911

Pravastatin reduces carotid intima–media thickness progression in an asymptomatic hypercholesterolemic mediterranean population: the Carotid Atherosclerosis Italian Ultrasound Study. Mercuri M, et al. **Am J Med** 1996 Dec;101(6):627–34

Measurement of carotid bifurcation pressure gradients using the Bernoulli principle. Illig KA, et al. **Cardiovasc Surg** 1996 Apr;4(2):130–4

Lesion width as a discriminator of plaque characteristics. Ricotta JJ, et al. **Cardiovasc Surg** 1996 Apr;4(2):124–9

Downregulation of cyclin G1 expression by retrovirus–mediated antisense gene transfer inhibits vascular smooth muscle cell proliferation and neointima formation. Zhu NL, et al. **Circulation** 1997 Jul 15; 96(2):628–35

Mast cell distribution, activation, and phenotype in atherosclerotic lesions of human carotid arteries. Jeziorska M, et al. **J Pathol** 1997 May;182(1):115–22

Comparison of ultrasonic and histopathological features of carotid artery stenosis. Droste DW, et al. **Neurol Res** 1997 Aug;19(4):380–4

Relationship between carotid intima–media thickness and symptomatic and asymptomatic peripheral arterial disease. The Edinburgh Artery Study. Allan PL, et al. **Stroke** 1997 Feb;28(2):348–53

Carotid plaque morphology and clinical events. Hatsukami TS, et al. **Stroke** 1997 Jan;28(1):95–100

Carotid artery intima–media thickness in elderly patients with NIDDM and in nondiabetic subjects. Niskanen L, et al. **Stroke** 1996 Nov;27(11):1986–92

Indications for carotid endarterectomy. Quest DO, et al. **Surg Neurol** 1996 Dec;46(6):540–4

Inhibition of leucocyte and platelet adhesion reduces neointimal hyperplasia after arterial injury. Golino P, et al. **Thromb Haemost** 1997 Apr;77(4):783–8

[Magnetic resonance angiography in stenosing–occlusive diseases of the carotid arteries: 3D with time of flight versus 3D with phase contrast] Scarabino T, et al. **Radiol Med (Torino)** 1997 Mar;93(3):214–7 (23 ref.) (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

Cerebral vascular reactivity assessed with acetazolamide single photon emission computer tomography scans before and after carotid endarterectomy. Cikrit DF, et al. **Am J Surg** 1997 Aug;174(2):193–7

A role for intercellular adhesion molecule–1 in restenosis [editorial; comment] Plow EF, et al. **Circulation** 1997 Mar 18;95(6):1355–6. Comment on: Circulation 1997 Mar 18;95(6):1515–22.

Inhibition of thrombin attenuates stenosis after arterial injury in minipigs [see comments] Abendschein DR, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1849–55. Comment in: J Am Coll Cardiol 1996 Dec;28(7):1856–7.

Thrombin and restenosis: has the question been answered? [editorial; comment] Stouffer GA, et al.

J Am Coll Cardiol 1996 Dec;28(7):1856-7. Comment on: J Am Coll Cardiol 1996 Dec;28(7):1849-55.

Analysis of the axial flow field in stenosed carotid artery bifurcation models--LDA experiments. Gijsen FJ, et al. **J Biomech** 1996 Nov;29(11):1483-9

Effects of ramipril and enalapril on cerebral blood flow in elderly patients with asymptomatic carotid artery occlusive disease. Patel RV, et al. **J Cardiovasc Pharmacol** 1996 Jul; 28(1):48-52

Aqueous humor flow in unilateral carotid stenosis. Kaplan BH, et al. **J Glaucoma** 1996 Aug;5(4):237-40

Heterogeneity of cerebral hemodynamics and metabolism in carotid artery disease. Duncan DB, et al. **J Nucl Med** 1996 Mar;37(3):429-32

Differential involvement of serotonin 2A/C and thromboxane A2/prostanoid receptors in high- vs. low-shear rate arterial thrombosis in rabbits. Valentin JP, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):761-9

Carotid stenosis associated with atrial fibrillation. Ruivo A, et al. **Rev Neurol** 1996 Jan;24(125):55-8

Correlation of peak systolic velocity and angiographic measurement of carotid stenosis revisited. Alexandrov AV, et al. **Stroke** 1997 Feb;28(2):339-42

Morphological and hemodynamic assessments of carotid stenosis using quantitative digital subtraction angiography. Bladin CF, et al. **Stroke** 1996 Sep;27(9):1672-8

Transcranial Doppler assessment of cerebrovascular reactivity in symptomatic and asymptomatic severe carotid stenosis. Silvestrini M, et al. **Stroke** 1996 Nov;27(11):1970-3

Clinical evaluation of near-infrared spectroscopy for testing cerebrovascular reactivity in patients with carotid artery disease. Smielewski P, et al. **Stroke** 1997 Feb;28(2):331-8

Impaired dynamic cerebral autoregulation in carotid artery stenosis. White RP, et al. **Stroke** 1997 Jul;28(7):1340-4

[Effect of thrombus endarterectomy (TEA) on the regional cerebral bloodflow (rCBF) in patients with unilateral internal carotid artery stenosis] Otte A, et al. **Nuklearmedizin** 1997 Jan;36(1):23-8 (Eng. Abstr.) **(Ger)**

[Tension measurement of pulse pressure of herniation in children] Stachowska-Tomczak B, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):443-55 (Eng. Abstr.) **(Pol)**

[Atrial fibrillation, carotid stenosis and stroke (editorial)] Martín R. **Rev Neurol** 1996 Jan;24(125):26-7 **(Spa)**

PREVENTION & CONTROL

Pravastatin reduces carotid intima-media thickness progression in an asymptomatic hypercholesterolemic mediterranean population: the Carotid Atherosclerosis Italian Ultrasound Study. Mercuri M, et al. **Am J Med** 1996 Dec;101(6):627-34

Cytotoxic effect of photodynamic therapy with Photofrin II on intimal hyperplasia. Eton D, et al. **Ann Vasc Surg** 1996 May;10(3):273-82

What can angiotensin antagonists do that converting-enzyme inhibition can't: the case of post-angioplastic restenosis. Pham D, et al. **Can J Physiol Pharmacol** 1996 Jul; 74(7):867-77

Inhibition of von Willebrand factor binding to platelet GP Ib by a fractionated aurintricarboxylic acid prevents restenosis after vascular injury in hamster carotid artery. Matsuno H, et al. **Circulation** 1997 Aug 19;96(4):1299-304

Rat arterial wall retains myointimal hyperplastic potential long after arterial injury. Sirois MG, et al. **Circulation** 1997 Aug 19;96(4):1291-8

RADIOGRAPHY

Imaging of carotid artery stenosis: the role of CT angiography [letter; comment] Calzolari F, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):591-3. Comment on: AJNR Am J Neuroradiol 1995 Oct;16(9):1875-83.

Transient obstruction of the internal carotid artery during angiography. Cross DT 3rd, et al. **AJNR Am J Neuroradiol** 1997 Jun-Jul;18(6):1186-8

Accuracy and precision of CT angiography in a model of carotid artery bifurcation stenosis. Dix JE, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):409-15

Carotid artery stenosis: optimization of CT angiography with a combination of shaded surface display and source images. Papp Z, et al. **AJNR Am J Neuroradiol** 1997 Apr; 18(4):759-63

Technical factors of CT angiography studied with a carotid artery phantom. Wise SW, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):401-8

Evaluation of contrast densities in the diagnosis of carotid stenosis by CT angiography. Claves JL, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):569-73

Common carotid artery bifurcation: preliminary results of CT angiography and color-coded duplex sonography compared with digital subtraction angiography. Link J, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):361-5

Comparative ultrasonographic and angiographic study of carotid arterial lesions in Takayasu's arteritis. Taniguchi N, et al. **Angiology** 1997 Jan;48(1):9-20

The influence of routine completion arteriography on outcome following carotid endarterectomy. Westerband A, et al. **Ann Vasc Surg** 1997 Jan;11(1):14-9

Does carotid duplex imaging render angiography redundant before carotid endarterectomy? Khaw KT. **Br J Radiol** 1997 Mar;70:235-8 (42 ref.)

Prospective assessment of carotid bifurcation disease with spiral CT angiography in surface shaded display (SSD)-technique. Link J, et al. **Comput Med Imaging Graph** 1995 Nov-Dec;19(6):451-6

Degree of carotid artery stenosis. Comparison of selective and non-selective angiographic findings with surgical specimens. Post K, et al. **Eur J Radiol** 1997 Jul;25(1):9-13

Aortic arch angiography prior to carotid endarterectomy. Is its continued use justified? Kadwa AM, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):527-30

The measurement of internal carotid artery stenosis: comparison of duplex with digital subtraction angiography. Padayachee TS, et al. **Eur J Vasc Endovasc Surg** 1997 Feb; 13(2):180-5

The clinical value of methods to measure carotid stenosis. Bladin CF, et al. **Int Angiol** 1996 Dec;15(4):295-9

Comparison of centralized versus "site-based" measurement of angiographic stenosis for eligibility in the asymptomatic carotid atherosclerosis study. Dean BL, et al. **Invest Radiol** 1996 Jul;31(7):446-50

Comparison of MR angiography with contrast angiography for the diagnosis of carotid artery stenosis. Dadachanji MC, et al. **J Assoc Physicians India** 1995 Feb;43(2):92-5

Spiral CT angiography in the study of the carotid stenoses. Simeone A, et al. **J Neuroradiol** 1997 Jun;24(1):18-22

Hypoplastic internal carotid artery mimicking a classic angiographic "string sign". Case report. Heth JA, et al. **J Neurosurg** 1997 Mar;86(3):567-70

The role of angiography in the evaluation of vascular and neoplastic disease in the external carotid artery circulation. Hu WY, et al. **Neuroimaging Clin N Am** 1996 Aug; 6(3):625-44 (37 ref.)

Carotid artery stenosis: external validity of the North American Symptomatic Carotid Endarterectomy Trial measurement method. Eliasziw M, et al. **Radiology** 1997 Jul;204(1):229-33

Morphological and hemodynamic assessments of carotid stenosis using quantitative digital subtraction angiography. Bladin CF, et al. **Stroke** 1996 Sep;27(9):1672-8

An approach for the use of Doppler ultrasound as a screening tool for hemodynamically significant stenosis (despite heterogeneity of Doppler performance). A multicenter experience. Asymptomatic Carotid Atherosclerosis Study Investigators. Howard G, et al. **Stroke** 1996 Nov; 27(11):1951-7

[Carotid stenosis--is arteriography necessary in investigation and treatment] Sillesen HH, et al. **Ugeskr Laeger** 1996 Nov 11;158(46):6617-9 (Eng. Abstr.) **(Dan)**

[Traumatically-induced closure with spontaneous recanalization of the internal carotid artery] Bauer KF, et al. **Chirurg** 1997 Feb;68(2):187-9 (Eng. Abstr.) **(Ger)**

[Determination of blood circulation time for optimizing contrast medium administration in CT angiography] Puskás Z, et al. **Radiologe** 1996 Sep;36(9):750-7 (Eng. Abstr.) **(Ger)**

[3D-CT angiography and duplex sonography compared to arteriography in carotid stenoses] Link J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):30-5 (Eng. Abstr.) **(Ger)**

[Spiral CT angiography versus DSA in detection of carotid stenoses] Link J, et al. **Zentralbl Chir** 1996;121(12):1018-22 (Eng. Abstr.) **(Ger)**

[Evaluation of carotid artery stenosis with three-dimensional CT angiography and surgical revascularization] Ohtaki M, et al. **No Shinkei Geka** 1996 Nov;24(11):995-1002 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Preparation and biodistribution of 99m technetium labelled oxidized LDL in man. Iuliano L, et al. **Atherosclerosis** 1996 Sep 27;126(1):131-41

Heterogeneity of cerebral hemodynamics and metabolism in carotid artery disease. Duncan DB, et al. **J Nucl Med** 1996 Mar;37(3):429-32

Brain SPECT with dipyridamole stress to evaluate cerebral blood flow reserve in carotid artery disease. Hwang TL, et al. **J Nucl Med** 1996 Oct;37(10):1595-9

SURGERY

Management of symptomatic carotid stenoses with coincidental intracranial aneurysms. Pappadà G, et al. **Acta Neurochir (Wien)** 1996;138(12):1386-90

Expression of collagen, interstitial collagenase, and tissue inhibitor of metalloproteinases-1 in restenosis after carotid endarterectomy. Nikkari ST, et al. **Am J Pathol** 1996 Mar; 148(3):777-83

Saphenous vein versus polytetrafluoroethylene carotid patch angioplasty. Allen PJ, et al. **Am J Surg** 1997 Aug; 174(2):115-7

Evolving indications for and early results of carotid artery stenting. Criado FJ, et al. **Am J Surg** 1997 Aug;174(2):111-4

Factors contributing to recurrent carotid disease following carotid endarterectomy. Ladowski JS, et al. **Am J Surg** 1997 Aug;174(2):118-20

Intraoperative duplex scanning reduces both residual stenosis and postoperative morbidity of carotid endarterectomy. Dykes JR 2nd, et al. **Am Surg** 1997 Jan;63(1):50-4

Cerebral haemorrhage after carotid endarterectomy. Lepojärvi M, et al. **Ann Chir Gynaecol** 1996;85(1):23-6

Pupil-involving third-nerve palsy and carotid stenosis: rapid recovery following endarterectomy. Balcer LJ, et al. **Ann Neurol** 1997 Feb;41(2):273-6

Sites of recurrence and long-term results of redo surgery. Ballinger BA, et al. **Ann Surg** 1997 May;225(5):512-5; discussion 516-7

Is an integrated approach warranted for concomitant carotid and coronary artery disease? Takach TJ, et al. **Ann Thorac Surg** 1997 Jul;64(1):16-22

Corotid endarterectomy for symptomatic carotid artery disease demonstrated by duplex ultrasound with minimal arteriographic findings. AbuRahma AF, et al. **Ann Vasc Surg** 1996 Jul;10(4):385-9

Arterial pressure and neurologic morbidity during carotid surgery under peridural anesthesia. Chaillou P, et al. **Ann Vasc Surg** 1996 May;10(3):228-32

Risk of early controlateral carotid endarterectomy. Habozit B, et al. **Ann Vasc Surg** 1997 Sep;11(5):491-5

Causes of the increased stroke rate after carotid endarterectomy in patients with previous strokes. Rockman CB, et al. **Ann Vasc Surg** 1997 Jan;11(1):28-34

Subclavian-carotid bypass to an "isolated" carotid bifurcation: a retrospective analysis. Sullivan TM. **Ann Vasc Surg** 1996 May;10(3):283-9

The influence of routine completion arteriography on outcome following carotid endarterectomy. Westerband A, et al. **Ann Vasc Surg** 1997 Jan;11(1):14-9

Current status of the surgical treatment of patients with carotid artery disease: the surgical management of carotid atherosclerosis. Wittgen CM, et al. **Annu Rev Med** 1997; 48:69-77 (25 ref.)

Consensus against both endarterectomy and routine screening for asymptomatic carotid artery stenosis. Canadian Stroke Consortium [see comments] Perry JR, et al. **Arch Neurol** 1997 Jan;54(1):25-8. Comment in: Arch Neurol 1996 Jan;54(1):23-4.

Asymptomatic carotid artery stenosis [letter; comment] Perry JR, et al. **Arch Neurol** 1997 Jul;54(7):799-800. Comment on: Arch Neurol 1996 Jan;54(1):23-4.

Cost-effective evaluation and treatment for carotid disease. Ballard JL, et al. **Arch Surg** 1997 Mar;132(3):268-71

Surgery for asymptomatic carotid artery stenosis. Panayiotopoulos YP, et al. **Br J Clin Pract** 1996 Sep; 50(6):335-8 (48 ref.)

The management of carotid artery stenosis [editorial] Nelson R. **Br J Neurosurg** 1996 Jun;10(3):241-3

Prospective study of carotid endarterectomy and contralateral carotid occlusion [see comments] da Silva AF, et al. **Br J Surg** 1996 Oct;83(10):1370-2. Comment in: Br J Surg 1997 Apr;84(4):585-6.

Recurrent carotid stenosis after carotid endarterectomy. Lattimer CR, et al. **Br J Surg** 1997 Sep;84(9):1206-19 (228 ref.)

Prospective study of carotid endarterectomy and contralateral carotid occlusion [letter; comment] McCleary AJ. **Br J Surg** 1997 Apr;84(4):585-6. Comment on: Br J Surg 1996 Oct;83(10):1370-2.

Carotid endarterectomy without angiography [see comments] Shifrin EG, et al. **Br J Surg** 1996 Aug;83(8):1107-9. Comment in: Br J Surg 1997 Jan;84(1):137.

Combined endarterectomy of the internal carotid artery and persistent hypoglossal artery: an unusual case of carotid revascularization. Cartier R, et al. **Can J Surg** 1996 Apr; 39(2):159-62

Processed bovine pericardium as patch angioplasty for carotid endarterectomy: a preliminary report. Biasi GM, et al. **Cardiovasc Surg** 1996 Oct;4(5):591-5

Is transcranial Doppler effective in avoiding the hazards of carotid surgery? Bornstein NM, et al. **Cardiovasc Surg** 1996 Jun;4(3):335-7

Risk prediction of outcome following carotid endarterectomy. Davies AH, et al. **Cardiovasc Surg** 1996 Jun;4(3):338-9

Comparison of perioperative results obtained with carotid eversion endarterectomy and with conventional patch plasty. Entz L, et al. **Cardiovasc Surg** 1997 Feb;5(1):16-20

Five hundred consecutive carotid endarterectomies: emphasis on vein patch closure. Lawhorne TW Jr, et al. **Cardiovasc Surg** 1997 Apr;5(2):141-4

Myocardial ischaemia, infarction and cardiac-related death following carotid endarterectomy: risk assessment by thallium myocardial perfusion scan compared with clinical examination. Nawaz I, et al. **Cardiovasc Surg** 1996 Oct; 4(5):596-601

Recent advances in neurovascular surgery. MacDonald JD. **Curr Opin Neurol** 1997 Feb;10(1):73-5 (11 ref.)

Carotid endarterectomy in patients with recently symptomatic moderate (30-69%) carotid stenosis: no overall benefit [editorial] Rothwell PM, et al. **Eur Heart J** 1997 Mar;18(3):355-6

Cardiac events after combined surgery for coronary and carotid artery disease. Perić M, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1074-9; discussion 1079-80

Vessel wall and flow characteristics after carotid endarterectomy: eversion endarterectomy compared with Dacron patch plasty. Baan J Jr, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):583-91

Carotid surgery and ocular ischaemia [letter] Coleman K, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):256-7

A systematic review of the randomised trials of carotid patch angioplasty in carotid endarterectomy. Counsell CE, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):345-54

Intraoperative transcranial Doppler sonography monitoring during carotid surgery under locoregional anaesthesia.

Giannoni MF, et al. **Eur J Vasc Endovasc Surg** 1996 Nov; 12(4):407–11

Asymptomatic carotid stenosis--looking for a sensible strategy. Halliday AW. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):389–90

Results of electroencephalographic monitoring during 369 consecutive carotid artery revascularizations. Ballotta E, et al. **Eur Neurol** 1997;37(1):43–7

Silent cerebral microembolism in asymptomatic and symptomatic carotid artery stenoses of low and high degree. Orlandi G, et al. **Eur Neurol** 1997;38(1):39–43

Influence of projected complication rates on estimated appropriate use rates for carotid endarterectomy. Appropriateness Project Investigators. Academic Medical Center Consortium. Matchar DB, et al.
Health Serv Res 1997 Aug;32(3):325–42

A surgical approach to coexistent coronary and carotid artery disease. Jahangiri M, et al. **Heart** 1997 Feb;77(2):164–7

Our experience with carotid endarterectomy without patch and shunt. Andrikopoulos V, et al. **Int Angiol** 1996 Dec; 15(4):307–11

Recurrent carotid artery stenosis. Toursarkissian B, et al. **J Am Coll Surg** 1997 Jan;184(1):93–8 (48 ref.)

Internal carotid pseudo-occlusion: early and late results. Pulli R, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):15–20

Evaluation of cerebral function after carotid endarterectomy. Uclés P, et al. **J Clin Neurophysiol** 1997 May;14(3):242–9

Late thoughts and reflections on carotid reconstruction for the prevention of ischemic stroke. Eastcott HH.
J Endovasc Surg 1996 Feb;3(1):5–6

Recurrent carotid disease: optimum technique for redo surgery. Raithel D. **J Endovasc Surg** 1996 Feb;3(1):69–75

Carotid endarterectomy in a community hospital. Saha SP, et al. **J Ky Med Assoc** 1996 Aug;94(8):314–6

Carotid endarterectomy for the asymptomatic patient. Hughes RL. **J La State Med Soc** 1996 Nov;148(11):474–8 (12 ref.)

The effect of carotid endarterectomy on cerebral blood flow and cerebral blood volume studied by SPECT. Lishmanov Y, et al. **J Neuroradiol** 1997 Aug;24(2):155–62

Current and future treatment of carotid bifurcation atherosclerotic disease: a perspective. Becker GJ.
J Vasc Interv Radiol 1997 Jan–Feb;8(1 Pt 1):3–8 (34 ref.)

Prospective randomized trials of carotid endarterectomy with primary closure and patch reconstruction: the problem is power [letter; comment] Archie JP Jr. **J Vasc Surg** 1997 Jun;25(6):1118–20. Comment on: J Vasc Surg 1996 Dec;24(6):998–1006; discussion 1006–7.

Duplex imaging findings predict stenosis after carotid endarterectomy. Golledge J, et al. **J Vasc Surg** 1997 Jul; 26(1):43–8

Clinical follow-up rather than duplex surveillance after carotid endarterectomy. Goiledge J, et al. **J Vasc Surg** 1997 Jan;25(1):55–63

Carotid endarterectomy for recurrent stenosis. Mansour MA, et al. **J Vasc Surg** 1997 May;25(5):877–83

Clinical problem-solving. A common clinical conundrum [see comments] Gray WA, et al. **N Engl J Med** 1997 Apr 3;336(14):1008–11. Comment in: N Engl J Med 1997 Aug 7;337(6);427; discussion 428. Comment in: N Engl J Med 1997 Aug 7;337(6):427–8.

Carotid endarterectomy—indications, techniques, and Mayo Clinic experience. Little NS, et al.
Neurol Med Chir (Tokyo) 1997 Mar;37(3):227–35 (35 ref.)

Effectiveness of revascularization surgery evaluated by proton magnetic resonance spectroscopy and single photon emission computed tomography. Uno M, et al.
Neurol Med Chir (Tokyo) 1996 Aug;36(8):560–6; discussion 566–7

Endarterectomy for asymptomatic internal carotid artery stenosis [editorial] Lanska DJ, et al. **Neurology** 1997 Jun; 48(6):1481–90

Intraoperative and early postoperative colour Doppler sonography after carotid artery reconstruction: follow-up of technical defects. Dorffner R, et al. **Neuroradiology** 1997 Feb;39(2):117–21

Physiological diagnosis and surgical treatment of recurrent limb shaking: case report. Firlik AD, et al.
Neurosurgery 1996 Sep;39(3):607–11

Predictability of extracranial/intracranial bypass function: a retrospective study of patients with occlusive cerebrovascular disease. Iwama T, et al. **Neurosurgery** 1997 Jan;40(1):53–9; discussion 59–60

Subdural hemorrhage caused by de novo aneurysm complicating extracranial–intracranial bypass surgery: case report. Kohno K, et al. **Neurosurgery** 1996 May; 38(5):1051–5 (17 ref.)

Multiple cerebral arterial occlusions in a young patient with Sjögren's syndrome: case report. Nagahiro S, et al.
Neurosurgery 1996 Mar;38(3):592–5; discussion 595

Hemodynamic instability after carotid endarterectomy: risk factors and associations with operative complications. Wong JH, et al. **Neurosurgery** 1997 Jul;41(1):35–41; discussion 41–3

Complications resulting from saphenous vein patch graft after carotid endarterectomy. Yamamoto Y, et al.
Neurosurgery 1996 Oct;39(4):670–5; discussion 675–6

Asymptomatic carotid stenosis and stroke during neck surgery. Sprung J, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):568–72

Delayed improvement in carotid artery diameter after carotid angioplasty. Crawley F, et al. **Stroke** 1997 Mar;28(3):574–9

Angioplasty and stenting for restenosis after carotid endarterectomy. Initial experience. Yadav JS, et al.
Stroke 1996 Nov;27(11):2075–9

An analysis of perioperative surgical mortality and morbidity in the asymptomatic carotid atherosclerosis study. ACAS Investigators. Asymptomatic Carotid Artheriosclerosis Study [see comments] Young B, et al. **Stroke** 1996 Dec; 27(12):2216–24. Comment in: Stroke 1997 Aug;28(8):1648.

Indications for carotid endarterectomy. Quest DO, et al.
Surg Neurol 1996 Dec;46(6):540–4

Cerebral revascularization by omental free flap using contralateral superficial temporal vessels as recipient vessels: case report. Yoshioka N, et al. **Surg Neurol** 1997 May;47(5):460–5; discussion 465–6

Eversion endarterectomy of the internal carotid artery: technique and results in 449 procedures. Darling RC 3rd, et al. **Surgery** 1996 Oct;120(4):635–9; discussion 639–40

Medical revolution: the prevention and treatment of stroke, 1996. Part 1. Stroke prevention and carotid endarterectomy. Kirshner HS. **Tenn Med** 1996 Oct; 89(10):374–5 (10 ref.)

Further discussion: surgical vs. medical treatment of carotid artery disease in asymptomatic patients. Miller JH.
Tenn Med 1997 Sep;90(9):364–6 (0 ref.)

Management of internal carotid artery occlusion. Mayberg MR, et al. **West J Med** 1997 Jun;166(6):414–5

[Should asymptomatic carotid artery stenoses be operated?] Mas JL. **Ann Cardiol Angeiol (Paris)** 1997 May–Jun; 46(5–6):336–40 (37 ref.) (Eng. Abstr.) **(Fre)**

[Surgery of carotid lesions after irradiation. Apropos of 15 cases] Testart J, et al. **Chirurgie** 1997;122(3):181–5; discussion 186 (Eng. Abstr.) **(Fre)**

[Carotid endarterectomy by eversion and reimplantation. Techniques and results] Chakfe N, et al. **J Mal Vasc** 1997 Jul;22(3):168–72 (31 ref.) (Eng. Abstr.) **(Fre)**

[Carotid surgery beyond 75 years old] Van Damme H, et al. **Rev Med Liege** 1997 Apr;52(4):237–44 (47 ref.) **(Fre)**

[Combined intraoperative retrograde stent implantation and thrombendarterectomy of the carotid artery] Bandorski T, et al. **Dtsch Med Wochenschr** 1997 Aug 15;122(33):999–1002 (Eng. Abstr.) **(Ger)**

[Simultaneous operations of the carotid bifurcation and coronary vessels in moderate systemic hypothermia] Cremer J, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:1021–3 (Eng. Abstr.) **(Ger)**

[Carotid TEA and perioperative thrombolysis: a new concept in therapy of acute ischemic stroke] Eckstein HH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:889–93 (Eng. Abstr.) **(Ger)**

[Biomechanical characteristics of the carotid artery in relation to surgical technique] Kasprzak P, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:29–36 **(Ger)**

[Endarterectomy in asymptomatic carotid artery stenosis? A discussion of results of the Asymptomatic Carotid Atherosclerosis study] Haberl RL, et al. **Nervenarzt** 1996 Feb;67(2):177–8 **(Ger)**

[Effect of thrombus endarterectomy (TEA) on the regional cerebral bloodflow (rCBF) in patients with unilateral internal carotid artery stenosis] Otte A, et al.
Nuklearmedizin 1997 Jan;36(1):23–8 (Eng. Abstr.) **(Ger)**

[Indications and outcome of simultaneous operation of carotid stenoses and stenosing coronary arteriosclerosis] Gutschi S, et al. **Zentralbl Chir** 1996;121(12):1054–7 (Eng. Abstr.) **(Ger)**

[Carotid TEA in asymptomatic stenoses—is intraoperative monitoring a conditio sine qua non?] Hamann HG.
Zentralbl Chir 1996;121(12):1045–8 (Eng. Abstr.) **(Ger)**

[Diagnosis and therapy of carotid stenoses (editorial)] Hepp W, et al. **Zentralbl Chir** 1996;121(12):1017 **(Ger)**

[Does multi-vessel disease of brain supplying arteries modify the procedure in carotid operations?] Kogel H.
Zentralbl Chir 1996;121(12):1049–53 (34 ref.) (Eng. Abstr.) **(Ger)**

[Indications for endarterectomy in asymptomatic stenoses of the internal or common carotid artery--results of the North American ACAS Study] Mast H, et al. **Zentralbl Chir** 1996; 121(12):1033–5 (Eng. Abstr.) **(Ger)**

[Evoked potentials for quality assurance in carotid surgery—a cost effectiveness analysis] Quendt J, et al.
Zentralbl Chir 1996;121(12):1041–4 (Eng. Abstr.) **(Ger)**

[Transcranial Doppler ultrasound as monitoring during carotid operation] Tamaschke C, et al. **Zentralbl Chir** 1996; 121(12):1036–40 (Eng. Abstr.) **(Ger)**

[Treatment of concomitant coronary and carotid disease] Medalion B, et al. **Harefuah** 1996 Aug;131(3–4):79–82, 144 (Eng. Abstr.) **(Heb)**

[Carotid endarterectomy based on preoperative duplex ultrasound] Ohana N, et al. **Harefuah** 1996 Sep; 131(5–6):147–50 (Eng. Abstr.) **(Heb)**

[A case report of concomitant carotid and coronary artery reconstruction] Hayashi I, et al. **Kyobu Geka** 1996 May; 49(5):380–3 (Eng. Abstr.) **(Jpn)**

[Bilateral carotid endarterectomy for patients with bilateral carotid artery stenosis] Sato M, et al. **No Shinkei Geka** 1996 Oct;24(10):885–90 (Eng. Abstr.) **(Jpn)**

[The diagnosis and treatment of chronic cerebrovascular insufficiency in atherosclerotic stenosis or occlusion of the carotid artery] Zubkov IuN, et al.
Vestn Khir Im I I Grek 1997;156(3):15–8 (Eng. Abstr.) **(Rus)**

[Early therapeutic intervention: thromboendarterectomy and percutaneous transluminal angioplasty] Gil-Peralta A.
Neurologia 1995 Dec;10 Suppl 2:55–61 (30 ref.) (Eng. Abstr.) **(Spa)**

[Carotid endarterectomy] Lozano-Vilardell P, et al.
Rev Neurol 1997 Feb;25(138):283–6 (29 ref.) (Eng. Abstr.) **(Spa)**

[Cerebral hemorrhage after carotid endarterectomy in a young adult] Parra J, et al. **Rev Neurol** 1997 Feb; 25(138):237–9 (Eng. Abstr.) **(Spa)**

[Carotid angioplasty with cerebral protection and endovascular prosthesis] Soler-Singla L, et al.
Rev Neurol 1997 Feb;25(138):287–90 (12 ref.) **(Spa)**

[Surgical treatment of stenosing lesions of the carotid arteries] Rusin VI, et al. **Klin Khir** 1996;(10):14–5 **(Ukr)**

THERAPY

Reversal of abnormal ischemic vascular enhancement after intracerebral angioplasty. Kessler LS, et al.
AJNR Am J Neuroradiol 1996 Feb;17(2):269–70

Percutaneous transluminal angioplasty of the internal carotid artery with a continuous-perfusion dilatation catheter. Tsurutani T, et al. **AJNR Am J Neuroradiol** 1997 Apr; 18(4):696–8

A comparison of angioplasty with stenting versus endarterectomy for the treatment of carotid artery stenosis. Jordan WD Jr, et al. **Ann Vasc Surg** 1997 Jan;11(1):2–8

Percutaneous transluminal angioplasty of the internal carotid artery [letter; comment] Brown MM, et al. **Br J Surg** 1997 May;84(5):729–30. Comment on: Br J Surg 1996 Sep;83(9):1171–3.

Percutaneous transluminal angioplasty for carotid artery stenosis in Takayasu arteritis: persistent benefit over 10 years. Murakami R, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):219–21

Use of coronary Palmaz-Schatz stent in the percutaneous treatment of an intracranial carotid artery stenosis. Feldman RL, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):316–9

Palmaz stent compression in patients following carotid artery stenting. Mathur A, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):137–40

Brachial artery approach for transluminal angioplasty of the internal carotid artery. Sievert H, et al.
Cathet Cardiovasc Diagn 1996 Dec;39(4):421–3

Elective stenting of the extracranial carotid arteries [see comments] Yadav JS, et al. **Circulation** 1997 Jan 21; 95(2):376–81. Comment in: Circulation 1997 Jan 21;95(2):303–5.

The many windows of therapeutic opportunities in stroke [editorial] Coull BM. **Curr Opin Neurol** 1996 Feb;9(1):43–5 (16 ref.)

Asymptomatic carotid stenosis in patients undergoing major cardiac surgery: can percutaneous carotid angioplasty be an alternative? [see comments] Babatasi G, et al.
Eur J Cardiothorac Surg 1997 Mar;11(3):547–53. Comment in: Eur J Cardiothorac Surg 1997 Mar;11(3):554–6.

Carotid angioplasty before aorta coronary bypass. Prospect for a new randomised study? [editorial; comment] Vermeulen FE. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):554–6. Comment on: Eur J Cardiothorac Surg 1997 Mar;11(3):547–53.

Management issues in asymptomatic carotid stenosis. Caplan LR. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):93–6, 101–3, 107; discussion 107–8

Treatment of ulcerated atherosclerotic carotid artery bifurcation stenosis using a self-expanding mesh stent. Joseph G, et al. **Indian Heart J** 1996 Jul–Aug;48(4):412–4

The role of hyaluronan and its receptors in restenosis after balloon angioplasty: development of a potential therapy. Savani RC, et al. **Int J Tissue React** 1995;17(4):141–51 (53 ref.)

Recurrent carotid disease: will stents be an alternative to surgery? Bergeron P, et al. **J Endovasc Surg** 1996 Feb; 3(1):76–9

Results of balloon angioplasty in the carotid arteries [see comments] Kachel R. **J Endovasc Surg** 1996 Feb;3(1):22–30 (47 ref.). Comment in: J Endovasc Surg 1996 Nov;3(4):484–6.

The role of endovascular surgery in carotid restenosis. Pratesi C, et al. **J Endovasc Surg** 1995 Feb;2(1):36–41

Cerebral protection during carotid angioplasty [letter; comment] Théron J. **J Endovasc Surg** 1996 Nov;3(4):484–6 . Comment on: J Endovasc Surg 1996 Feb;3(1):22–30.

Utility of intravascular ultrasound in carotid stenting. Wilson EP, et al. **J Endovasc Surg** 1996 Feb;3(1):63–8

Supra-aortic arterial stenoses: management with Palmaz balloon-expandable intraluminal stents. Lyon RD, et al.
J Vasc Interv Radiol 1996 Nov–Dec;7(6):825–35

Carotid endarterectomy vs carotid angioplasty [letter; comment] [see comments] Brown MM, et al. **Lancet** 1997 Mar 22;349(9055):880–1. Comment on: Lancet 1997 Jan 18;349(9046):203–4. Comment in: Lancet 1997 May 3;349(9061):1324–5.

Carotid and Vertebral Artery Transluminal Angioplasty Study [letter; comment] Naylor AR, et al. **Lancet** 1997 May 3;349(9061):1324–5. Comment on: Lancet 1997 Mar 22;349(9055):880. Comment on: Lancet 1997 Mar 22;349(9055):880–1.

Carotid endarterectomy vs carotid angioplasty [letter; comment] [see comments] Warlow C, et al. **Lancet** 1997 Mar 22;349(9055):880. Comment on: Lancet 1997 Jan 18;349(9046):203–4. Comment in: Lancet 1997 May

3;349(9061):1324–5.
Stenting for carotid stenosis? [letter; comment] Estes JM, et al. **N Engl J Med** 1997 Aug 7;337(6):427–8. Comment on: N Engl J Med 1997 Apr 3;336(14):1008–11.
Stenting for carotid stenosis [letter; comment] Mittl RL Jr. **N Engl J Med** 1997 Aug 7;337(6):427; discussion 428. Comment on: N Engl J Med 1997 Apr 3;336(14):1008–11.
Transcranial Doppler Sonographic monitoring during percutaneous transluminal angioplasty of the internal carotid artery. Eckert B, et al. **Neuroradiology** 1997 Mar; 39(3):229–34
Percutaneous transluminal cerebral angioplasty: serial angiographic follow-up after successful dilatation. Mori T, et al. **Neuroradiology** 1997 Feb;39(2):111–6
Carotid angioplasty and stent: an alternative to carotid endarterectomy. **Neurosurgery** 1997 Feb;40(2):344–5
Carotid angioplasty [editorial; comment] Hurst RW. **Radiology** 1996 Dec;201(3):613–6. Comment on: Radiology 1996 Dec;201(3):627–36.
Carotid artery stenosis: treatment with protected balloon angioplasty and stent placement [see comments] Theron JG, et al. **Radiology** 1996 Dec;201(3):627–36. Comment in: Radiology 1996 Dec;201(3):613–6.
Carotid stent-assisted angioplasty. Smedema JP, et al. **S Afr Med J** 1997 Feb;87 Suppl 1:C9–14
Considerations in the prophylactic treatment of transient ischemic attack or ischemic stroke in the carotid artery territory. Donati F, et al. **Schweiz Arch Neurol Psychiatr** 1995;146(6):264–9
Concerns regarding carotid artery angioplasty and stenting [letter; comment] Ammar AD. **Stroke** 1996 Nov; 27(11):2143–4. Comment on: Stroke 1996 Feb;27(2):197–8.
Concern about safety of carotid angioplasty [letter] Callahan TJ, et al. **Stroke** 1996 Nov;27(11):2144–5
Percutaneous transluminal angioplasty of the symptomatic atherosclerotic carotid arteries. Results, complications, and follow-up. Gil-Peralta A, et al. **Stroke** 1996 Dec; 27(12):2271–3
[How I treat and manage a carotid stenosis] Amarenco P. **Journ Annu Diabetol Hotel Dieu** 1996;:185–91 (16 ref.) **(Fre)**
[Quality criteria in using percutaneous transluminal angioplasty of supra-aortic arteries] Kachel R, et al. **Zentralbl Chir** 1996;121(12):1076–84 (Eng. Abstr.) **(Ger)**
[Angioplasty and stenting of the carotid artery] Atar E, et al. **Harefuah** 1997 Mar 16;132(6):388–91, 448 (Eng. Abstr.) **(Heb)**

ULTRASONOGRAPHY

Transcranial color-coded duplex sonography in the evaluation of collateral flow through the circle of Willis. Baumgartner RW, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):127–33
Common carotid artery bifurcation: preliminary results of CT angiography and color-coded duplex sonography compared with digital subtraction angiography. Link J, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):361–5
The reliability of color duplex ultrasound in diagnosing total carotid artery occlusion. AbuRahma AF, et al. **Am J Surg** 1997 Aug;174(2):185–7
Intraoperative duplex scanning reduces both residual stenosis and postoperative morbidity of carotid endarterectomy. Dykes JR 2nd, et al. **Am Surg** 1997 Jan;63(1):50–4
Comparative ultrasonographic and angiographic study of carotid arterial lesions in Takayasu's arteritis. Taniguchi N, et al. **Angiology** 1997 Jan;48(1):9–20
Cost-effectiveness of screening for carotid stenosis in asymptomatic persons. Lee TT, et al. **Ann Intern Med** 1997 Mar 1;126(5):337–46
Predictive power of duplex ultrasonography in asymptomatic carotid disease. Lewis RF, et al. **Ann Intern Med** 1997 Jul 1;127(1):13–20
A mobile lesion in the carotid artery. Stewart J, et al. **Aust N Z J Surg** 1996 Sep;66(9):639–41
Does carotid duplex imaging render angiography redundant before carotid endarterectomy? Khaw KT. **Br J Radiol** 1997 Mar;70:235–8 (42 ref.)
Colour-coded duplex assessment alone before carotid endarterectomy. Golledge J, et al. **Br J Surg** 1996 Sep; 83(9):1234–7
Comparison of colour Doppler imaging with conventional duplex scanning in the evaluation of extracranial carotid stenosis. Trigaux JP, et al. **Can Assoc Radiol J** 1996 Oct; 47(5):355–9
Ultrasonographic and histologic characteristics of symptom-free and symptomatic carotid plaque. Kardoulas DG, et al. **Cardiovasc Surg** 1996 Oct;4(5):580–90
'Medical cost savings through stroke prevention from 100 consecutive new carotid duplex scans', by G.S. Lavenson and D. Sharma, Cardiovascular Surgery, 1996, 4: 753–58 [editorial] Kent KC. **Cardiovasc Surg** 1996 Dec;4(6):689–90
Medical cost savings through stroke prevention from 100 consecutive new carotid duplex scans. Lavenson GS Jr, et al. **Cardiovasc Surg** 1996 Dec;4(6):753–8
What are the indications for a carotid duplex scan? [see comments] Holdsworth RJ, et al. **Clin Radiol** 1996 Nov; 51(11):801–3. Comment in: Clin Radiol 1997 Jun;52(6):481–2.
What are the indications for a carotid duplex scan? [letter; comment] Moseley I, et al. **Clin Radiol** 1997 Jun;52(6):481–2 . Comment on: Clin Radiol 1996 Nov;51(11):801–3.
Ultrasound assessment of internal carotid artery stenosis. Sidhu PS, et al. **Clin Radiol** 1997 Sep;52(9):654–8 (54 ref.)
The measurement of internal carotid artery stenosis: comparison of duplex with digital subtraction angiography. Padayachee TS, et al. **Eur J Vasc Endovasc Surg** 1997 Feb; 13(2):180–5
The relative effect of carotid plaque heterogeneity and echogenicity on ipsilateral cerebral infarction and symptoms of cerebrovascular disease. el-Barghouti N, et al. **Int Angiol** 1996 Dec;15(4):300–6
The blood-flow velocity analysis as a possible method for arterial calibre discovery. A statistical investigation in 108 human subjects by color-Doppler method. Macchi C, et al. **Ital J Anat Embryol** 1996 Jan-Mar;101(1):45–55
The accuracy of carotid duplex scanning in the diagnosis of 70% internal carotid artery stenosis: evaluation of new duplex criteria. Karam BG, et al. **J Med Liban** 1996; 44(4):223–6
Diagnostic value of three-dimensional transcranial contrast duplex sonography. Delcker A, et al. **J Neuroimaging** 1997 Jul;7(3):139–44
Risk factors differ for carotid artery plaque with and without acoustic shadowing. Atherosclerosis Risk in Communities Study Investigators. Duncan BB, et al. **J Neuroimaging** 1997 Jan;7(1):28–34
Three-dimensional ultrasound angiography (power mode) for the quantification of carotid artery atherosclerosis. Griewing B, et al. **J Neuroimaging** 1997 Jan;7(1):40–5
Characteristics and clinical value of an intravenous echo-enhancement agent in evaluation of high-grade internal carotid stenosis. Sitzer M, et al. **J Neuroimaging** 1997 Apr;7 Suppl 1:S22–5
Diagnostic criteria for transcranial colour-coded duplex sonography evaluation of cross-flow through the circle of Willis in unilateral obstructive carotid artery disease. Baumgartner RW, et al. **J Neurol** 1996 Jul;243(7):516–21
Anomalous branch of the internal carotid artery maintains patency distal to a complete occlusion diagnosed by duplex scan. Bowen JC, et al. **J Vasc Surg** 1997 Jul;26(1):164–7
Carotid duplex criteria for a 60% or greater angiographic stenosis: variation according to equipment. Fillinger MF, et al. **J Vasc Surg** 1996 Nov;24(5):856–64
Duplex imaging findings predict stenosis after carotid endarterectomy. Golledge J, et al. **J Vasc Surg** 1997 Jul; 26(1):43–8
Utility of routine carotid duplex screening in patients who have claudication. Marek J, et al. **J Vasc Surg** 1996 Oct; 24(4):572–7; discussion 577–9
Improving selection of patients with less than 60% asymptomatic internal carotid artery stenosis for follow-up carotid artery duplex scanning. Nehler MR, et al. **J Vasc Surg** 1996 Oct;24(4):580–5; discussion 585–7
Comparison of ultrasonic and histopathological features of carotid artery stenosis. Droste DW, et al. **Neurol Res** 1997 Aug;19(4):380–4
Vascular lesions in Chinese patients with transient ischemic attacks. Huang YN, et al. **Neurology** 1997 Feb;48(2):524–5
Use of carotid ultrasound as a preoperative assessment of extracranial carotid artery blood flow and vascular anatomy. Prestigiacomo CJ, et al. **Neurosurg Clin N Am** 1996 Oct;7(4):577–87 (52 ref.)
Temporal artery tap: usefulness and limitations in carotid sonography. Kliewer MA, et al. **Radiology** 1996 Nov; 201(2):481–4
New Doppler parameters for carotid stenosis. Zwiebel WJ. **Semin Ultrasound CT MR** 1997 Feb;18(1):66–71
Grading carotid stenosis with ultrasound. An interlaboratory comparison. Alexandrov AV, et al. **Stroke** 1997 Jun; 28(6):1208–10
Ultrasound densitometric analysis of carotid plaque composition. Pathoanatomic correlation. Beletsky VY, et al. **Stroke** 1996 Dec;27(12):2173–7
Echolucent carotid artery plaques are associated with elevated levels of fasting and postprandial triglyceride-rich lipoproteins. Grønholdt ML, et al. **Stroke** 1996 Dec; 27(12):2166–72
Re 'The accuracy of carotid duplex testing: there is no problem' [letter; comment] Harbison JW, et al. **Stroke** 1996 Nov;27(11):2143. Comment on: Stroke 1996 Mar;27(3):570.
An approach for the use of Doppler ultrasound as a screening tool for hemodynamically significant stenosis (despite heterogeneity of Doppler performance). A multicenter experience. Asymptomatic Carotid Atherosclerosis Study Investigators. Howard G, et al. **Stroke** 1996 Nov; 27(11):1951–7
Duplex ultrasound criteria for the identification of carotid stenosis should be laboratory specific. Kuntz KM, et al. **Stroke** 1997 Mar;28(3):597–602
Intercenter agreement in reading Doppler embolic signals. A multicenter international study. Markus HS, et al. **Stroke** 1997 Jul;28(7):1307–10
Assessment of the efficacy of noninvasive screening for patients with asymptomatic neck bruits. Obuchowski NA, et al. **Stroke** 1997 Jul;28(7):1330–9
Limited sensitivity of transcranial color-coded duplex sonography in the assessment of the posterior communicating artery [letter; comment] Postert T, et al. **Stroke** 1997 Jan;28(1):219–20. Comment on: Stroke 1996 Mar;27(3):486–9.
Consistency of Doppler parameters in predicting arteriographically confirmed carotid stenosis. Asymptomatic Carotid Atherosclerosis Study Investigators. Schwartz SW, et al. **Stroke** 1997 Feb; 28(2):343–7
Transcranial Doppler assessment of cerebrovascular reactivity in symptomatic and asymptomatic severe carotid stenosis. Silvestrini M, et al. **Stroke** 1996 Nov;27(11):1970–3
Carotid Doppler ultrasound criteria for internal carotid artery stenosis based on residual lumen diameter calculated from en bloc carotid endarterectomy specimens [see comments] Suwanwela N, et al. **Stroke** 1996 Nov; 27(11):1965–9. Comment in: Stroke 1997 Mar;28(3):673–4.
Transcranial Doppler ultrasound battery reliably identifies severe internal carotid artery stenosis. Wilterdink JL, et al. **Stroke** 1997 Jan;28(1):133–6
Carotid Doppler ultrasound criteria for internal carotid artery stenosis based on residual lumen diameter calculated from en bloc carotid endarterectomy specimens [letter; comment] [published erratum appears in Stroke 1997 May;28(5):1091] Zbornikova V. **Stroke** 1997 Mar; 28(3):673–4. Comment on: Stroke 1996 Nov;27(11):1965–9.
Analysis of ultrasonic Doppler velocity data obtained in models of stenosed carotid bifurcations with irregular lesion surface. Kaluzynski K, et al. **Technol Health Care** 1997 Jul;5(3):199–206
Simple clinical method of average intima-media thickness measurement in the common carotid artery. Csányi A, et al. **Vasa** 1996;25(3):242–8
[A comparative study of the Doppler methods for evaluation of the degree of carotid artery stenosis. Continuous, pulsed, color Doppler] Arbeille P, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):41–50 (Eng. Abstr.) **(Fre)**
[Color-coded duplex ultrasonography of extracranial vascular lesions] Schuknecht BF, et al. **Radiologe** 1996 Jan; 36(1):1–11 (78 ref.) (Eng. Abstr.) **(Ger)**
[3D-CT angiography and duplex sonography compared to arteriography in carotid stenoses] Link J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):30–5 (Eng. Abstr.) **(Ger)**
[Factors influencing measuring parameters of beginning arteriosclerotic wall changes in carotid arteries in ultrasound] Delcker A, et al. **Rontgenpraxis** 1996 Sep; 49(9):229–34 **(Ger)**
[Ultrasound contrast media for neurovascular applications] Gahn G, et al. **Ultraschall Med** 1997 Jun;18(3):101–4 (13 ref.) (Eng. Abstr.) **(Ger)**
[Volume flow in carotid occlusion. Measurement using ultrasound time domains and color M mode analysis] Knappertz VA, et al. **Ultraschall Med** 1996 Oct; 17(5):229–34; discussion 235 (Eng. Abstr.) **(Ger)**
[Carotid endarterectomy based on preoperative duplex ultrasound] Ohana N, et al. **Harefuah** 1996 Sep; 131(5–6):147–50 (Eng. Abstr.) **(Heb)**
[Carotid endarterectomy without angiography] Shifrin EG, et al. **Harefuah** 1996 Jul;131(1–2):4–7, 72 (Eng. Abstr.) **(Heb)**
[Detection of microemboli in patients with extracranial carotid artery stenosis by transcranial Doppler sonography] Akiyama Y, et al. **No Shinkei Geka** 1997 Jan;25(1):41–5 (Eng. Abstr.) **(Jpn)**

VIROLOGY

Human cytomegalovirus and restenosis of the internal carotid artery [see comments] Pauletto P, et al. **Stroke** 1996 Sep; 27(9):1669–71. Comment in: Stroke 1997 May;28(5):1088–90.

CARP

Differential scanning calorimetry and CD spectrometry of acclimation temperature-associated types of carp light meromyosin. Nakaya M, et al. **Biochemistry** 1997 Jul 29; 36(30):9179–84
Spontaneous formation of intercellular bile canaliculi and hybrid biliary-pancreatic canaliculi in co-culture of hepatocytes and exocrine pancreas cells from carp. Vogt G, et al. **Cell Tissue Res** 1997 Jul;289(1):191–4
Fin cell line from isogeneic ginbuna crucian carp [letter] Hasegawa S, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr; 33(4):232–3
In vivo and in vitro effects of deltamethrin on cytochrome P450 monooxygenase activity in carp (Cyprinus carpio L.) liver. Banka L, et al. **J Environ Sci Health B** 1997 Sep; 32(5):789–802
Feminization of male carp [letter] Gimeno S, et al. **Nature** 1996 Nov 21;384(6606):221–2
Stimulation of proliferation of an essential fatty acid-deficient fish cell line by C20 and C22 polyunsaturated fatty acids and effects on fatty acid composition. Tocher DR, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Nov; 55(5):345–56

ANATOMY & HISTOLOGY

VIP-like immunoreactivity in the intestinal tract of fish with different feeding habits. Andreozzi G, et al. **Eur J Histochem** 1997;41(1):57–64
Terminal morphology of two branches arising from a single stem-axon of pretectal (PSm) neurons in the common carp. Ito H, et al. **J Comp Neurol** 1997 Feb 17;378(3):379–88
[Changes in the corneal epithelium of fishes when damaged] Vasil'eva VA. **Arkh Anat Gistol Embriol** 1968 Nov; 55(11):68–71 (Eng. Abstr.) **(Rus)**

CARP

BLOOD

Lactate dehydrogenase isoenzyme patterns in bird, carp and mammalian sera. Heinova D, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):91–5

[Changes in the blood morphofunctional characteristics of cyprinid fishes in ammonia poisoning] Hrubinko VV, et al. **Fiziol Zh** 1996;42(1–2):40–6 (Eng. Abstr.) **(Ukr)**

EMBRYOLOGY

Expression of Hoxb–3 in carp (Cyprinus carpio) embryos. In der Rieden P, et al. **Int J Dev Biol** 1996;Suppl 1:97S–98S

Expression of Hoxb–1 during gastrulation and segmentation stages of carp (Cyprinus carpio). Stevens CJ, et al. **Int J Dev Biol** 1996 Apr;40(2):463–70

Embryonic expression of carp–Ovx1. Stroband HW, et al. **Int J Dev Biol** 1996;Suppl 1:95S–96S

Effects of N,N–dimethylnitrosamine (DMNA) on in vitro oocyte maturation and embryonic development of fertilized eggs of carp (Cyprinus carpio L.) kept in eutrophied ponds. Bieniarz K, et al. **J Appl Toxicol** 1996 Mar–Apr;16(2):153–6

An important developmental role for oligosaccharides during early embryogenesis of cyprinid fish. Bakkers J, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7982–6

GENETICS

Characterization of isogenic carp (Cyprinus carpio L.) lines with a genetically determined high or low antibody production. Wiegertjes GF, et al. **Anim Genet** 1996 Oct; 27(5):313–9

The cDNA sequences of cytochrome c oxidase subunit VIa from carp and rainbow trout suggest the absence of isoforms in fishes. Hüttemann M, et al. **Biochim Biophys Acta** 1997 Mar 28;1319(1):14–8

A second type of rod opsin cDNA from the common carp (Cyprinus carpio). Lim J, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):8–12

Amplification, cloning, and sequence comparison of the growth hormone gene for carp (Cyprinus carpio) by the polymerase chain reaction. Zhao X, et al. **Chin J Biotechnol** 1996;12(3):161–7

Expression, characterization, and genomic structure of carp JAK1 kinase gene. Chang MS, et al. **DNA Cell Biol** 1996 Oct;15(10):827–44

Evidence for multiple distinct major histocompatibility complex class I lineages in teleostean fish. van Erp SH, et al. **Eur J Immunogenet** 1996 Oct;23(5):371–81

Isolation of transforming growth factor–beta2 cDNA from a fish, Cyprinus carpio by RT–PCR. Sumathy K, et al. **Gene** 1997 May 20;191(1):103–7

Polyploid–specific repetitive DNA sequences from triploid ginbuna (Japanese silver crucian carp, Carassius auratus langsdorfi). Murakami M, et al. **Genes Genet Syst** 1997 Apr; 72(2):107–13

Expression of Hoxb–3 in carp (Cyprinus carpio) embryos. In der Rieden P, et al. **Int J Dev Biol** 1996;Suppl 1:97S–98S

Embryonic expression of carp–Ovx1. Stroband HW, et al. **Int J Dev Biol** 1996;Suppl 1:95S–96S

The two essential light chains of carp fast skeletal myosin, LC1 and LC3, are encoded by distinct genes and change their molar ratio following temperature acclimation. Hirayama Y, et al. **J Exp Biol** 1997 Feb;200 (Pt 4):693–701

Molecular cloning, structural analysis, and expression of carp ZP3 gene. Chang YS, et al. **Mol Reprod Dev** 1996 Jul; 44(3):295–304

GROWTH & DEVELOPMENT

Characterization of antigens specific for spermatozoa and germ cells during early gonadal development of carp (Cyprinus carpio, Cyprinidae, Teleostei) with monoclonal antibodies. Timmermans LP, et al. **Int J Dev Biol** 1996; Suppl 1:221S–222S

[Growth and carcass quality of carp (Cyprinus carpio L.) fed different cereals, lupin seed or zooplankton] Oberle M, et al. **Arch Tierernahr** 1997;50(1):75–86 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Conservation of apoptosis as an immune regulatory mechanism: effects of cortisol and cortisone on carp lymphocytes. Weyts FAA, et al. **Brain Behav Immun** 1997 Jun;11(2):95–105

Enhancement of the resistance of tilapia and grass carp to experimental Aeromonas hydrophila and Edwardsiella tarda infections by several polysaccharides. Wang WS, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun; 20(3):261–70

Effects and mechanisms of environmental temperature on carp (Cyprinus carpio) anti–DNP antibody response and non–specific cytotoxic cell activity: a kinetic study. Le Morvan C, et al. **Dev Comp Immunol** 1996 Sep–Oct; 20(5):331–40

Characterization of a T cell lineage marker in carp (Cyprinus carpio L.). Rombout JH, et al. **Dev Comp Immunol** 1997 Jan–Feb;21(1):35–46

Characterization of antigens specific for spermatozoa and germ cells during early gonadal development of carp (Cyprinus carpio, Cyprinidae, Teleostei) with monoclonal antibodies. Timmermans LP, et al. **Int J Dev Biol** 1996; Suppl 1:221S–222S

The in vitro effect of Khawia sinensis on leucocyte activity in carp (Cyprinus carpio). Morley NJ, et al. **J Helminthol** 1997 Mar;71(1):47–52

Terminal components of carp complement constituting a membrane attack complex. Nakao M, et al. **Mol Immunol** 1996 Aug;33(11–12):933–7

Purification and characterization of the eighth and ninth components of carp complement. Uemura T, et al. **Mol Immunol** 1996 Aug;33(11–12):925–32

Separation of carp (Cyprinus carpio L.) thrombocytes by using a monoclonal antibody, and their aggregation by collagen. Nakayasu C, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):337–46

Multiple regulation of carp (Cyprinus carpio L.) macrophages and neutrophilic granulocytes by serum factors: influence of infection with atypical Aeromonas salmonicida. Verburg–van Kemenade BM, et al. **Vet Immunol Immunopathol** 1996 May;51(1–2):189–200

Inhibition of cytotoxic activity of carp lymphocytes (Cyprinus carpio) by anti–thymocyte monoclonal antibodies. Yamaguchi K, et al. **Vet Immunol Immunopathol** 1996 May;51(1–2):211–21

Determination of phagocyte activity in whole blood of carp (Cyprinus carpio) by luminol–enhanced chemiluminescence. Kubala L, et al. **Vet Med (Praha)** 1996 Oct;41(10):323–7

[The effect of carbophos on the immunocompetent cells and structure of the spleen in the carp Cyprinus carpio] Zabotkina EA, et al. **Tsitologiia** 1996;38(4–5):551–4 (Eng. Abstr.) **(Rus)**

INJURIES

[Changes in the corneal epithelium of fishes when damaged] Vasil'eva VA. **Arkh Anat Gistol Embriol** 1968 Nov; 55(11):68–71 (Eng. Abstr.) **(Rus)**

METABOLISM

Effects of diethyl–dithiocarbamate on antioxidant system in carp tissue. Hai DQ, et al. **Acta Biol Hung** 1997;48(1):1–8

Tissue–specific changes in protein synthesis rates in vivo during anoxia in crucian carp. Smith RW, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R897–904

Activation of grass carp liver alcohol dehydrogenase by limited proteolysis. Lau KK, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1095–103

Characterization of insulin and insulin–like growth factor–I ovarian receptors during the reproductive cycle of carp (Cyprinus carpio). Maestro MA, et al. **Biol Reprod** 1997 May;56(5):1126–32

Effect of carbaryl on tissue composition, maturation, and breeding potential of Cirrhina mrigala (Ham.). Kaur K, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):480–6

Effects of sublethal doses of fenvalerate (a synthetic pyrethroid) administered continuously for four weeks on the blood, liver, and muscles of a freshwater fish, Ctenopharyngodon idella. Shakoori AR, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):487–94

Effects of chelation on the bioconcentraton of cadmium and copper by carp (Cyprinus carpio L.). Xiaorong W, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):120–4

Comparisons of heavy metal concentration of grass carp (Ctenopharyngodon idella Cuv. et Val.) in a shallow eutrophic lake and a fish pond (possible effects of food contamination). Vigh P, et al. **Chemosphere** 1996 Feb; 32(4):691–701

Substrate specificity of carp Cyprinus carpio cathepsin H with methylcoumarylamide substrates. Aranishi F, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Feb; 116(2):203–8

Purification and characterization of myofibril–bound serine proteinase from carp Cyprinus carpio ordinary muscle. Osatomi K, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Feb; 116(2):183–90

Ketone body metabolism in the Carp Cyprinus carpio: biochemical and 1H NMR spectroscopical analysis. Segner H, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Feb;116(2):257–62

Organophosphate effects on antioxidant system of carp (Cyprinus carpio) and catfish (Ictalurus nebulosus). Hai DQ, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):83–8

Deltamethrin lethal multifactorial activity toward carp larva related to pH, calcium, and humic acid concentrations. Ghillebaert F, et al. **Ecotoxicol Environ Saf** 1996 Oct; 35(1):24–37

Action of cypermethrin on tissue transamination during nitrogen metabolism in Cyprinus carpio. Philip GH, et al. **Ecotoxicol Environ Saf** 1996 Jul;34(2):174–9

Neuroendocrine effects on adrenal hormone secretion in carp (Cyprinus carpio). Gfell B, et al. **Gen Comp Endocrinol** 1997 Jun;106(3):310–9

Quantitative distributions of different cholinesterases and inhibition of acetylcholinesterase by metidathion and paraquat in alimentary canal of common carp. Láng G, et al. **Gen Pharmacol** 1997 Jul;29(1):55–9

Purification and cloning of carp nephrosin, a secreted zinc endopeptidase of the astacin family. Hung CH, et al. **J Biol Chem** 1997 May 23;272(21):13772–8

Ca2+ sensitivity and caffeine–induced changes in skinned cardiac muscle fibers of the carp, Cyprinus carpio. Chugun A, et al. **J Comp Physiol [B]** 1996;166(7):412–7

Water household of the common carp, Cyprinus carpio, when submitted to an osmotic challenge, as determined by diffusion–weighted magnetic resonance imaging at 7 T. De Boeck G, et al. **MAGMA** 1997 Mar;5(1):13–9

Histochemistry of NADPH–diaphorase—a marker for neuronal nitric oxide synthase—in the carp retina. Djamgoz MB, et al. **Neurochem Int** 1996 Mar;28(3):283–91

Insulin and insulin–like growth factor–I receptors in fish brain. Leibush B, et al. **Regul Pept** 1996 Feb 22;61(2):155–61

Ca(2+)–dependency of spinule plasticity at dendrites of retinal horizontal cells and its possible implication for the functional role of spinules. Weiler R, et al. **Vision Res** 1996 Dec;36(24):3891–900

PARASITOLOGY

Proliferation of pronephric lymphocytes of carp, Cyprinus carpio induced by extracts of Bothriocephalus acheilognathi. Nie P, et al. **J Helminthol** 1996 Jun; 70(2):127–31

Adherence of carp leucocytes to adults and cercariae of the blood fluke Sanguinicola inermis. Richards DT, et al. **J Helminthol** 1996 Mar;70(1):63–7

Temperature modulation of the response of Ig–positive cells to Goussia carpelli (Protozoa: Apicomplexa) infections in carp, Cyprinus Carpio L. Steinhagen D. **J Parasitol** 1997 Jun;83(3):434–9

Electron–microscopy observations on an intracellular mastigophoran in the gills of crucian carp, Carassius carassius. Ball SJ, et al. **Parasitol Res** 1997;83(7):740–2

PHYSIOLOGY

Histopathological changes induced by environmental stress in common carp, Japanese coloured carp, European eel, and African catfish. Szakolczai J. **Acta Vet Hung** 1997; 45(1):1–10

Sarcolemmal Ca influx through L–type Ca channels in ventricular myocytes of a teleost fish. Vornanen M. **Am J Physiol** 1997 May;272(5 Pt 2):R1432–40

Evidence of sensory conflict and recovery in carp exposed to prolonged weightlessness. Mori S, et al. **Aviat Space Environ Med** 1996 Mar;67(3):256–61

OFF pathway is preferentially suppressed by the activation of GABA(A) receptors in carp retina. Zhang DQ, et al. **Brain Res** 1997 Jun 6;759(1):160–2

Carp reproduction in highly eutrophic pond conditions. Bieniarz K, et al. **Bull Environ Contam Toxicol** 1996 Nov; 57(5):842–8

Relative susceptibility of different life stages of Channa punctatus and Cyprinus carpio to nickel–chrome electroplating effluent. Kaur A, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):836–41

Toxic effects of sewage sludges on freshwater edible fish Cirrhina mrigala. Pereira L, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):467–74

Anoxia tolerant animals from a neurobiological perspective. Lutz PL, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):3–13 (100 ref.)

Spectral plasticity of H1 horizontal cells in carp retina: independent modulation by dopamine and light–adaptation. Djamgoz MB, et al. **Eur J Neurosci** 1996 Aug;8(8):1571–9

Lower activation energy for sliding of F–actin on a less thermostable isoform of carp myosin. Chaen S, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):788–91

Contrasting strategies for anoxic brain survival—glycolysis up or down. Lutz PL, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):411–9 (59 ref.)

Effects of extracellular environment on the osmotic signal transduction involved in activation of motility of carp spermatozoa. Perchec Poupard G, et al. **J Reprod Fertil** 1997 Jul;110(2):315–27

Desensitizing GABAC receptors on carp retinal bipolar cells. Han MH, et al. **Neuroreport** 1997 Apr 14;8(6):1331–5

Voltage dependency of light–evoked on–off transient amacrine cell responses in carp retina. Djamgoz MB, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):127–30

Electrophysiological responses of three chemosensory systems in the carp to pesticides. Ishida Y, et al. **Physiol Behav** 1996 Aug;60(2):633–8

Cobalt ions enhance light responsiveness of carp cone horizontal cells in low calcium. Wang H, et al. **Sci China C Life Sci** 1996 Jun;39(3):258–66

Comparison of dark– and light–adapted carp retinas with NADPH diaphorase staining. Ye B, et al. **Sci China C Life Sci** 1996 Jun;39(3):251–7

Two opposite effects of ATP on the apparent sensitivity of the cGMP–gated channel of the carp retinal cone. Watanabe S, et al. **Vis Neurosci** 1997 Jul–Aug;14(4):609–15

Effects of nitric oxide on the horizontal cell network and dopamine release in the carp retina. Pottek M, et al. **Vision Res** 1997 May;37(9):1091–102

[A comparative study of the morphofunctional changes in the thyroid of carp and rats as a result of being in an environment with an elevated lead level] Kornienko GG, et al. **Tsitologiia** 1997;39(1):5–9 (Eng. Abstr.) **(Rus)**

VIROLOGY

The glycoprotein genes and gene junctions of the fish rhabdoviruses spring viremia of carp virus and hirame rhabdovirus: analysis of relationships with other

rhabdoviruses. Björklund HV, et al. **Virus Res** 1996 Jun; 42(1-2):65-80

[Detection of the spring viremia of carp virus by hybridization with nonradioactive DNA probes] Oreshkova SF, et al. **Mol Gen Mikrobiol Virusol** 1996 Apr-Jun;(2):22-5 (Eng. Abstr.) **(Rus)**

CARPAL BONES

Osteoid osteoma of the carpus. Case reports and a review of the literature. Lisanti M, et al. **Acta Orthop Belg** 1996 Dec;62(4):195-9 (27 ref.)

Some observations on lameness associated with pain in the proximal metacarpal region. Dyson S. **Equine Vet J Suppl** 1988 Sep;(6):43-52

Osteosarcoma of the scaphoid. A case report and review of the literature. Marcuzzi A, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):699-701 (8 ref.)

Flexor tendon ruptures caused by an intraosseous ganglion of the hook of the hamate. Masada K, et al. **J Hand Surg [Br]** 1997 Jun;22(3):383-5

Enchondroma of the scaphoid. Redfern DR, et al. **J Hand Surg [Br]** 1997 Apr;22(2):235-6

Superficial radial nerve compression due to a scaphoid exostosis. Spinner RJ, et al. **J Hand Surg [Br]** 1996 Dec; 21(6):781-2

Spontaneous rupture of the flexor pollicis longus tendon on a sesamoid bone. Webb JB, et al. **J Hand Surg [Br]** 1997 Jun;22(3):381-2

Management of carpal instabilities. Wright TW, et al. **J Hand Ther** 1996 Apr-Jun;9(2):148-56 (37 ref.)

To report or not? [letter] Frier M, et al. **Nucl Med Commun** 1997 Jun;18(6):589

Radiologic case study. Silicone synovitis. Tadikonda L, et al. **Orthopedics** 1997 Mar;20(3):277-80, 288

ABNORMALITIES

Abnormalities of the hook of the hamate in patients with carpal tunnel syndrome. Richards RS, et al. **Ann Plast Surg** 1997 Jul;39(1):44-6

Congenital absence of the scaphoid without other congenital abnormality: a case report. Kuz JE, et al. **J Hand Surg [Am]** 1997 May;22(3):489-91 (7 ref.)

Bicompartmentalization of the radiocarpal joint. Ono H, et al. **J Hand Surg [Am]** 1996 Sep;21(5):788-93

Congenital synchondrosis of the scaphotrapezio-trapezoidal joint. Weinzweig J, et al. **J Hand Surg [Am]** 1997 Jan; 22(1):74-7

Congenital fusion of the scaphoid, trapezium, trapezoid and capitate. Ingram C, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):167-8

Carpal and tarsal bone development is highly sensitive to three antiproliferative teratogens in mice. Rahman ME, et al. **Reprod Toxicol** 1996 Nov-Dec;10(6):485-9

[Complications related to the existence of a lunotriquetral synostosis] Kuhlmann JN, et al. **Acta Orthop Belg** 1996 Sep;62(3):161-4 (Eng. Abstr.) **(Fre)**

[Carpal bone protuberance] Urban J. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):339-41 (Eng. Abstr.) **(Pol)**

ANATOMY & HISTOLOGY

A short history of the wrist joint. Dobyns JH, et al. **Hand Clin** 1997 Feb;13(1):1-12

Guyon's canal revisited: an anatomic study of the carpal ulnar neurovascular space. Cobb TK, et al. **J Hand Surg [Am]** 1996 Sep;21(5):861-9

Does the normal contralateral wrist provide the best reference for X-ray film measurements of the pathologic wrist? Schuind F, et al. **J Hand Surg [Am]** 1996 Jan; 21(1):24-30

Quantitative MRI analysis of anatomic dimensions of the carpal tunnel in women. Pierre-Jerome C, et al. **Surg Radiol Anat** 1997;19(1):31-4

[The pisiform bone: sesamoid or carpal bone?] May O. **Ann Chir Main Memb Super** 1996;15(4):265-71 (Eng. Abstr.) **(Fre)**

BLOOD SUPPLY

Circular arterial supply of the pisiform bone. Canovas F, et al. **Acta Anat (Basel)** 1996;157(2):159-63

GROWTH & DEVELOPMENT

Skeletal maturation of wrist and hand ossification centers in normal Spanish boys and girls: a study using the Greulich-Pyle method. Jiménez-Castellanos J, et al. **Acta Anat (Basel)** 1996;155(3):206-11

INJURIES

Ununited proximal pole scaphoid fractures. Treatment with a Herbert screw in 16 cases followed for 0.5-8 years. Inoue G, et al. **Acta Orthop Scand** 1997 Apr;68(2):124-7

MR imaging of clinically suspected scaphoid fractures. Hunter JC, et al. **AJR Am J Roentgenol** 1997 May; 168(5):1287-93

Scaphoid bone waist fractures, acute and chronic: imaging with different techniques. Munk PL, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):779-86 (75 ref.)

Coronal fracture of the hamate body. Chase JM, et al. **Am J Orthop** 1997 Aug;26(8):568-71 (14 ref.)

Dorsal capsulodesis using suture anchors. Uhl RL, et al. **Am J Orthop** 1997 Aug;26(8):547-8

Internal fixation of acute stable scaphoid fractures in the athlete. Rettig AC, et al. **Am J Sports Med** 1996 Mar-Apr; 24(2):182-6

The natural history of scaphoid non-union. Radiographical and clinical analysis in 102 cases. Inoue G, et al. **Arch Orthop Trauma Surg** 1996;115(1):1-4

Stress fracture of the scaphoid combined with the distal radial epiphysiolysis. Inagaki H, et al. **Br J Sports Med** 1997 Sep; 31(3):256-7

Role of magnetic resonance imaging in assessing factors affecting healing in scaphoid nonunions. Morgan WJ, et al. **Clin Orthop** 1997 Mar;(336):240-6

Incidence, location and classification of 371 third carpal bone fractures in 313 horses. Schneider RK, et al. **Equine Vet J Suppl** 1988 Sep;(6):33-42

The diagnostic management of suspected scaphoid fracture. Tiel-van Buul MM, et al. **Injury** 1997 Jan;28(1):1-8 (63 ref.)

Imaging scaphoid fractures and nonunions: familiar methods and newer trends. Peterson DA, et al. **Iowa Orthop J** 1996; 16:97-103 (22 ref.)

Scapholunate instability—a spectrum of pathology. Gleeson AP, et al. **J Accid Emerg Med** 1996 May;13(3):216-9

What is your diagnosis? Carpal bone fractures in a racing horse. Sedrish SA, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1237-8

Trans-scaphoid, transtriquetral, volar lunate fracture-dislocation of the wrist. Stevanovic M, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1907-10

A comparison of fixation screws for the scaphoid during application of cyclical bending loads. Toby EB, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1190-7

Non-union of the scaphoid. Treatment with cannulated screws compared with treatment with Herbert screws. Trumble TE, et al. **J Bone Joint Surg Am** 1996 Dec; 78(12):1829-37

Herbert screw fixation by limited access for acute fractures of the scaphoid. Inoue G, et al. **J Bone Joint Surg Br** 1997 May;79(3):418-21

Suspected scaphoid fractures in skeletally immature patients: application of MRI. Cook PA, et al. **J Comput Assist Tomogr** 1997 Jul-Aug;21(4):511-5

Open dislocation of the carpal scaphoid: a case report. Antuna SA, et al. **J Hand Surg [Am]** 1997 Jan;22(1):86-8

Scapholunate ligament disruption in a skeletally immature patient: a case report. Cook PA, et al. **J Hand Surg [Am]** 1997 Jan;22(1):83-5

A modification for the insertion of the Herbert screw in the fractured or nonunited scaphoid. Heaps RJ, et al. **J Hand Surg [Am]** 1996 Sep;21(5):922-4

Rotary dislocation of the capitate: a case report. Hirata H, et al. **J Hand Surg [Am]** 1997 Jan;22(1):89-90

Isolated palmar radiocarpal dislocation and ulnar translocation: a case report and review of the literature. Howard RF, et al. **J Hand Surg [Am]** 1997 Jan;22(1):78-82 (10 ref.)

Repeat screw stabilization with bone grafting after a failed Herbert screw fixation for acute scaphoid fractures and nonunions. Inoue G, et al. **J Hand Surg [Am]** 1997 May; 22(3):413-8

Nonunion rates of limited carpal arthrodesis: a meta-analysis of the literature. Larsen CF, et al. **J Hand Surg [Am]** 1997 Jan;22(1):66-73

Corrective osteotomy for scaphoid malunion: technique and long-term follow-up evaluation. Lynch NM, et al. **J Hand Surg [Am]** 1997 Jan;22(1):35-43

Triquetrohamate impaction syndrome: a case report. Nakao E, et al. **J Hand Surg [Am]** 1996 Sep;21(5):778-80

Arthroscopic management of partial scapholunate and lunotriquetral injuries of the wrist. Ruch DS, et al. **J Hand Surg [Am]** 1996 May;21(3):412-7

Can cast immobilization successfully treat scapholunate dissociation associated with distal radius fractures? Tang JB, et al. **J Hand Surg [Am]** 1996 Jul;21(4):583-90

Isolated tears of the triangular fibrocartilage: management by early arthroscopic repair. Trumble TE, et al. **J Hand Surg [Am]** 1997 Jan;22(1):57-65

Unrecognized chondral penetration by a Herbert screw in the scaphoid. Tumilty JA, et al. **J Hand Surg [Am]** 1996 Jan;21(1):66-8

Fracture of the hook of hamate with rupture of the flexor tendons of the small finger in a rheumatoid patient: a case report. Yang SS, et al. **J Hand Surg [Am]** 1996 Sep; 21(5):916-7

Bilateral transscapholunate dislocations. Barros JW, et al. **J Hand Surg [Br]** 1997 Apr;22(2):169-72

Experience with scaphoid grafting. Barton NJ. **J Hand Surg [Br]** 1997 Apr;22(2):153-60

Apparent and partial non-union of the scaphoid. Barton NJ. **J Hand Surg [Br]** 1996 Aug;21(4):496-500

Herbert screw insertion in the scaphotrapezial joint. A cause of degenerative change? Callanan I, et al. **J Hand Surg [Br]** 1996 Dec;21(6):775-7

Radial artery injury in association with fractures of the trapezium. Checroun AJ, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):419-22

Combined fracture of the hook of the hamate and palmar dislocation of the fifth carpometacarpal joint. Garcia-Elias M, et al. **J Hand Surg [Br]** 1996 Aug;21(4):446-50

The role of arthroscopy in the investigation of wrist disorders. Jones WA, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):442-5

Registration bone scan in the evaluation of wrist pain. Mohamed A, et al. **J Hand Surg [Br]** 1997 Apr;22(2):161-6

Fractures of the distal radius and scaphoid. Oskam J, et al. **J Hand Surg [Br]** 1996 Dec;21(6):772-4

Treatment of scaphoid nonunions with a vascularized bone graft based on the first dorsal metacarpal artery. Yuceturk A, et al. **J Hand Surg [Br]** 1997 Jun;22(3):425-7

The management of carpal fractures and dislocations. Prosser R, et al. **J Hand Ther** 1996 Apr-Jun;9(2):139-47 (30 ref.)

Clinical pathological correlation: wrist pain [clinical conference] Kwan W, et al. **J Nucl Med** 1996 Mar; 37(3):534-6

Scaphoid fractures in soccer goalkeepers. Green JR Jr, et al. **J Okla State Med Assoc** 1997 Feb;90(2):45-7

Fractures and nonunions of the scaphoid. Rayan GM. **J Okla State Med Assoc** 1996 Sep;89(9):315-23 (74 ref.)

Biomechanical changes of the wrist flexor and extensor tendons following loss of scaphoid integrity. Tang JB, et al. **J Orthop Res** 1997 Jan;15(1):69-75

Scaphocapitate syndrome in a child associated with a distal radius and ulna fracture. Mazur K, et al. **J Orthop Trauma** 1997 Apr;11(3):230-2

Experimental evaluation of scaphoid X-series, carpal box radiographs, planar tomography, computed tomography, and magnetic resonance imaging in the diagnosis of scaphoid fracture. Roolker W, et al. **J Trauma** 1997 Feb; 42(2):247-53

Evaluation of Herbert screw fixation for the treatment of displaced scaphoid nonunions. Feldman MD, et al. **Orthopedics** 1997 Apr;20(4):325-8

Nonunited carpal scaphoid fracture in a child: treatment with pulsed electromagnetic field stimulation. Godley DR. **Orthopedics** 1997 Aug;20(8):718-9

Bilateral hook of the hamate fractures. McCue FC 3rd, et al. **Orthopedics** 1997 May;20(5):470-2 (30 ref.)

Radiographically occult scaphoid fractures: value of MR imaging in detection. Breitenseher MJ, et al. **Radiology** 1997 Apr;203(1):245-50

Wrist arthroscopy: a prospective analysis of 53 post-traumatic carpal injuries. Sennwald GR, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):261-6

Diagnosis and treatment of perilunate dislocations. Eifler E, et al. **Tex Med** 1997 May;93(5):44-7

Surgical treatment of a comminuted articular fracture of the accessory carpal bone in a thoroughbred horse. Munroe GA, et al. **Vet Rec** 1997 Jul 12;141(2):47-9

[Experimental study of Colles' fracture combined with dorsal radio-carpal subluxation] Gong X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):695-7 (Eng. Abstr.) **(Chi)**

[A defective callus of the trapezoid bone diagnosed by 3-dimensional scanner] Filloux JF, et al. **Acta Orthop Belg** 1996 Sep;62(3):180-2 (Eng. Abstr.) **(Fre)**

[Complications related to the existence of a lunotriquetral synostosis] Kuhlmann JN, et al. **Acta Orthop Belg** 1996 Sep;62(3):161-4 (Eng. Abstr.) **(Fre)**

[Scapho-capitate fracture. Apropos of a case, review of the literature] Boisgard S, et al. **Ann Chir Main Memb Super** 1996;15(3):181-8 (21 ref.) (Eng. Abstr.) **(Fre)**

[Recent, closed trapezio-metacarpal luxation, treated by pinning.Apropos of 7 cases with a median follow-up of 8 years] Obert L, et al. **Ann Chir Main Memb Super** 1997; 16(2):102-10 (Eng. Abstr.) **(Fre)**

[Scaphoid and lunate palmar divergent dislocation. Apropos of a case] Baulot E, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):265-9 (Eng. Abstr.) **(Fre)**

[Pseudarthrosis of the capitate bone. Report of 2 cases] D'Hondt B, et al. **Handchir Mikrochir Plast Chir** 1997 Jan; 29(1):27-31 (Eng. Abstr.) **(Ger)**

[Simultaneous corpus fractures of the os triquetrum and os hamatum diagnosed by magnetic resonance tomography. A case report] Kessler T, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):50-2 (Eng. Abstr.) **(Ger)**

[Fate of the calcium-dense proximal fragment in scaphoid fracture] Zimmermann G, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):20-6 (Eng. Abstr.) **(Ger)**

[Comparison between various treatment methods in scaphoid pseudarthrosis] Renner A, et al. **Orthopade** 1996 Sep; 25(5):449-53 (Eng. Abstr.) **(Ger)**

[Scaphoid pseudarthrosis: classification and staging with CT and MRI] Schmitt R, et al. **Rontgenpraxis** 1997 Jan; 50(1):18-24 **(Ger)**

[What is your diagnosis? Scapholunar dissociation (rotation subluxation of the scaphoid)] Kleemann D, et al. **Schweiz Rundsch Med Prax** 1996 Nov 12;85(46):1461-4 **(Ger)**

[Experimental studies of the biomechanics of scaphoid screws] Kaudela KH, et al. **Unfallchirurg** 1996 Feb; 99(2):130-5 (Eng. Abstr.) **(Ger)**

[Scapholunar ligament injuries in acute wrist trauma. Arthroscopic diagnosis and minimally invasive surgery] Peicha G, et al. **Unfallchirurg** 1997 Jun;100(6):430-7 (Eng. Abstr.) **(Ger)**

[Traumatic axial dislocation injury of the carpus and

metacarpus with triquetrum fracture. Rare entity or typical injury] Richter D, et al. **Unfallchirurg** 1997 Jun; 100(6):502–5 (Eng. Abstr.) **(Ger)**

[Injuries of the wrist joint including carpal bones] Voigt C, et al. **Unfallchirurg** 1997 Jan;100(1):56–68; quiz 68 **(Ger)**

[Rare case of isolated trapezius fracture] Seifert J, et al. **Unfallchirurgie** 1996 Aug;22(4):176–8 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Incidence and distribution of scaphotrapezotrapezoidal arthritis in 73 fresh cadaveric wrists. Bhatia A, et al. **Ann Chir Main Memb Super** 1996;15(4):220–5

Chondral lesions of the midcarpal joint. Dautel G, et al. **Arthroscopy** 1997 Feb;13(1):97–102

Extrinsic radiocarpal ligaments: magnetic resonance imaging of normal wrists and scapholunate dissociation. Adler BD, et al. **Can Assoc Radiol J** 1996 Dec;47(6):417–22

A new radiographic method of measuring carpal collapse. Zdravkovic V, et al. **J Bone Joint Surg Br** 1997 Jan; 79(1):167–9

Suspected scaphoid fractures in skeletally immature patients: application of MRI. Cook PA, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):511–5

Assessment of the ratio of carpal contents to carpal tunnel volume in patients with carpal tunnel syndrome: a preliminary report. Cobb TK, et al. **J Hand Surg [Am]** 1997 Jul;22(4):635–9

Tumoral calcinosis of the triangular fibrocartilage complex: a case report. Tadjalli HE, et al. **J Hand Surg [Am]** 1997 Mar;22(2):350–3

Altered patterns of subchondral bone mineralization in Kienböck's disease. Giunta R, et al. **J Hand Surg [Br]** 1997 Feb;22(1):16–20

[Compression of the ulnar nerve at the wrist due to an arthro–synovial cyst. Apropos of 2 cases] Maynou C, et al. **Ann Chir Main Memb Super** 1997;16(2):146–51 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Kinetic analysis of carpal stability during grip. Garcia–Elias M. **Hand Clin** 1997 Feb;13(1):151–8 (36 ref.)

Intercarpal kinematics during wrist motion. Kobayashi M, et al. **Hand Clin** 1997 Feb;13(1):143–9

Analysis of the kinematics of the scaphoid and lunate in the intact wrist joint. Short WH, et al. **Hand Clin** 1997 Feb; 13(1):93–108

Load mechanics of the wrist. Viegas SF, et al. **Hand Clin** 1997 Feb;13(1):109–28 (16 ref.)

Normal kinematics of carpal bones: a three–dimensional analysis of carpal bone motion relative to the radius. Kobayashi M, et al. **J Biomech** 1997 Aug;30(8):787–93

The relative contribution of selected carpal bones to global wrist motion during simulated planar and out–of–plane wrist motion. Werner FW, et al. **J Hand Surg [Am]** 1997 Jul;22(4):708–13

Changes in the carpal tunnel due to action of the flexor tendons: visualization with magnetic resonance imaging. Ham SJ, et al. **J Hand Surg [Br]** 1996 Nov;21(6):997–1003

A non–invasive method for studying in vivo carpal kinematics. Wolfe SW, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):147–52

PHYSIOPATHOLOGY

Scapholunate dissociation: an experimental kinematic study of two types of indirect soft tissue repairs. Dagum AB, et al. **J Hand Surg [Am]** 1997 Jul;22(4):714–9

The capitohamate ligaments. A comparison of biomechanical properties. Ritt MJ, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):451–4

[Significance of intraosseous pressure for pathogenesis of Kienböck disease] Schiltenwolf M, et al. **Handchir Mikrochir Plast Chir** 1996 Jul;28(4):215–9 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

An unusual localisation and presentation of an osteoid osteoma. de Smet L, et al. **Acta Orthop Belg** 1997 Jun; 63(2):128–31

Scapholunate distance in children. Leicht P, et al. **Acta Radiol** 1996 Sep;37(5):625–6

Residents' corner. Answer to case of the month #45. Stress changes of the distal radial physis. Frizzell JB, et al. **Can Assoc Radiol J** 1997 Feb;48(1):54–5

The value of additional carpal box radiographs in suspected scaphoid fracture. Roolker L, et al. **Invest Radiol** 1997 Mar; 32(3):149–53

Does the normal contralateral wrist provide the best reference for X–ray film measurements of the pathologic wrist? Schuind F, et al. **J Hand Surg [Am]** 1996 Jan; 21(1):24–30

The radiological anatomy of the scaphoid. Part 2: Radiology. Compson JP, et al. **J Hand Surg [Br]** 1997 Feb;22(1):8–15

Scapholunate dissociation in the skeletally immature carpus. Dautel G, et al. **J Hand Surg [Br]** 1997 Apr;22(2):173–4

Scaphoid osteochondroma mimicking carpal coalition. Rice J, et al. **J Hand Surg [Br]** 1996 Dec;21(6):779–80

Scaphotrapeziotrapezoid osteoarthritis after scaphotrapezial ligament injury. Sicre G, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):189–90

Intraarticular loose body in pisotriquetral osteoarthritis simulating a fracture [letter] Dumontier C, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):302–3

[A defective callus of the trapezoid bone diagnosed by 3–dimensional scanner] Filloux JF, et al. **Acta Orthop Belg** 1996 Sep;62(3):180–2 (Eng. Abstr.) **(Fre)**

[Stress on the radiocarpal joint. CT studies of subchondral bone density in vivo] Giunta R, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):32–7 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Registration bone scan in the evaluation of wrist pain. Mohamed A, et al. **J Hand Surg [Br]** 1997 Apr;22(2):161–6

SURGERY

Proximal row carpectomy: an alternative to wrist fusion? Steenwerckx A, et al. **Acta Orthop Belg** 1997 Mar;63(1):1–7 (23 ref.)

Internal fixation of acute stable scaphoid fractures in the athlete. Rettig AC, et al. **Am J Sports Med** 1996 Mar–Apr; 24(2):182–6

Are the palmar cutaneous nerves safe during standard carpal tunnel release? Wheatley MJ, et al. **Ann Plast Surg** 1996 Sep;37(3):251–3

Is training in endoscopic carpal tunnel release appropriate for residents? Wheatley MJ, et al. **Ann Plast Surg** 1996 Sep;37(3):254–7

A 32–year follow–up of lunate excision for Kienbock's disease: a case report and a review of results from excision and other treatment methods. Wheatley MJ, et al. **Ann Plast Surg** 1996 Sep;37(3):322–5 (83 ref.)

Long–term review of fascial replacement after excision of the carpal lunate bone. Carroll RE. **Clin Orthop** 1997 Sep; (342):59–63

Radiolunate fusion. The forgotten partial arthrodesis. Halikis MN, et al. **Clin Orthop** 1997 Aug;(341):30–5

Wrist arthrodesis. Technique and functional evaluation. Moneim MS, et al. **Clin Orthop** 1997 Aug;(341):23–9

Carpal bone titanium implant arthroplasty. 10 years' experience. Swanson AB, et al. **Clin Orthop** 1997 Sep; (342):46–58

Resection of the proximal row of the carpus. A review of 45 cases. Alnot JY, et al. **Int Orthop** 1997;21(3):145–50

The treatment of wrist instability. Garcia–Elias M. **J Bone Joint Surg Br** 1997 Jul;79(4):684–90 (51 ref.)

Herbert screw fixation by limited access for acute fractures of the scaphoid. Inoue G, et al. **J Bone Joint Surg Br** 1997 May;79(3):418–21

Extensor carpi radialis longus tendon arthroplasty in the treatment of primary trapeziometacarpal arthrosis. Atroshi I, et al. **J Hand Surg [Am]** 1997 May;22(3):419–27

Osteoblastoma of the scaphoid—long–term results following curettage: a case report. Castelló JR, et al. **J Hand Surg [Am]** 1996 May;21(3):426–7

A surgical technique to align the wrist central column. Higgs PE, et al. **J Hand Surg [Am]** 1996 Jul;21(4):724–6

A cadaveric anatomic study of radial artery pedicle grafts to the scaphoid and lunate. Hurlbut PT, et al. **J Hand Surg [Am]** 1997 May;22(3):408–12

Proximal row carpectomy with partial capitate resection. Salomon GD, et al. **J Hand Surg [Am]** 1996 Jan;21(1):2–8

A critical look at intercarpal arthrodesis: review of the literature. Siegel JM, et al. **J Hand Surg [Am]** 1996 Jul; 21(4):717–23 (36 ref.)

Solitary osteochondroma of the scaphoid: a case report. van Alphen JC, et al. **J Hand Surg [Am]** 1996 May;21(3):423–5

The unstable capitolunate and radiolunate joints as a source of wrist pain in young women. Apergis EP. **J Hand Surg [Br]** 1996 Aug;21(4):501–6

Bilateral osteoarthritis of the trapeziometacarpal joint treated by bilateral tendon interposition arthroplasty. Damen A, et al. **J Hand Surg [Br]** 1997 Feb;22(1):96–9

Excision of the trapezium for osteoarthritis of the trapeziometacarpal joint of the thumb. Hollevoet N, et al. **J Hand Surg [Br]** 1996 Aug;21(4):458–62

Carpectomy and fusion in adult–acquired hand spasticity. Pinzur MS. **Orthopedics** 1996 Aug;19(8):675–7

[A rare case of metastasis of urinary bladder carcinoma in the pisiform bone. A case report] Bauer P, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):154–7 (Eng. Abstr.) **(Ger)**

[Results of basal joint arthrosis treatment with trapezectomy and Epping suspension–plasty. Clinical follow–up] Hilty M, et al. **Handchir Mikrochir Plast Chir** 1996 Jan; 28(1):15–21 (Eng. Abstr.) **(Ger)**

[Callus distraction for progressive lengthening of the capitate bone after resection of the lunate bone in stage III lunate malacia. Surgical technique and 1 year results] Wilhelm K, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):10–9 (Eng. Abstr.) **(Ger)**

[Preliminary experiences on triscaphoid arthrodesis] Marcuzzi A, et al. **Minerva Chir** 1996 Jul–Aug; 51(7–8):537–45 (Eng. Abstr.) **(Ita)**

TRANSPLANTATION

Experimental use of small osteochondral grafts for resurfacing the equine third carpal bone. Hurtig MB. **Equine Vet J Suppl** 1988 Sep;(6):23–7

[Vascular pedicled transposition of the pisiform bone for treatment of lunate malacia] Wüstner–Hofmann MC, et al. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):171–7 (Eng. Abstr.) **(Ger)**

CARPAL TUNNEL SYNDROME

Case of the month: an 8–year–old girl with clumsiness, grip weakness, and hypoplasia of the right hand. Sieratzki JS, et al. **Eur J Pediatr** 1997 Jul;156(7):579–80

CHEMICALLY INDUCED

Peripheral nerve entrapment: an unusual adverse event with high–dose interleukin–2 therapy [letter] Sikora SS, et al. **Ann Oncol** 1996 Jul;7(5):535–6

Acute carpal tunnel syndrome as a complication of oral anticoagulant therapy. Black PR, et al. **J Hand Surg [Br]** 1997 Feb;22(1):50–1

CLASSIFICATION

Neurophysiological classification of carpal tunnel syndrome: assessment of 600 symptomatic hands. Padua L, et al. **Ital J Neurol Sci** 1997 Jun;18(3):145–50

COMPLICATIONS

Sleep–related disorders in carpal tunnel syndrome. Lehtinen I, et al. **Acta Neurol Scand** 1996 May;93(5):360–5

The association between fibromyalgia and carpal tunnel syndrome in the general population [letter] Cimmino MA, et al. **Ann Rheum Dis** 1996 Oct;55(10):780

Acute carpal tunnel syndrome complicating chronic palmar subluxation of the distal ulna. Seiler JG 3rd, et al. **J South Orthop Assoc** 1996 Summer;5(2):108–10

Evaluation of carpal tunnel syndrome in patients with polyneuropathy. Vogt T, et al. **Muscle Nerve** 1997 Feb; 20(2):153–7

[Simultaneous occurrence of trigger fingers and carpal tunnel syndrome] Pedersen MS, et al. **Ugeskr Laeger** 1997 Sep 15;159(38):5674–5 (Eng. Abstr.) **(Dan)**

DIAGNOSIS

Surgical prognosis in carpal tunnel syndrome: usefulness of a preoperative neurophysiological assessment. Padua L, et al. **Acta Neurol Scand** 1996 Nov;94(5):343–6

Anomalous nerve anatomy at the wrist? Tyrdal S, et al. **Ann Chir Gynaecol** 1997;86(1):79–83

Computer–assisted quantitative sensorimotor testing in patients with carpal and cubital tunnel syndromes. Dellon AL, et al. **Ann Plast Surg** 1997 May;38(5):493–502

Electrodiagnostic study of carpal tunnel syndrome in wheelchair basketball players. Jackson DL, et al. **Clin J Sport Med** 1996 Jan;6(1):27–31 (21 ref.)

Carpal tunnel syndrome: the significance of electrodiagnostic testing. Arons MS, et al. **Conn Med** 1997 Jun;61(6):349–51

In response to Drs. Arons' and Hasbani's commentary "Carpal tunnel syndrome: the significance of electrodiagnostic testing" [letter] Hendrikson RP. **Conn Med** 1997 Aug;61(8):504

In response to Drs. Arons' and Hasbani's commentary "Carpal tunnel syndrome: the significance of electrodiagnostic testing" [letter] Redler MR. **Conn Med** 1997 Aug;61(8):504

Carpal tunnel syndrome: which electrodiagnostic path should we follow? A prospective study of 100 consecutive patients. Foresti C, et al. **Electromyogr Clin Neurophysiol** 1996 Sep; 36(6):377–84

Sensory nerve recovery following median nerve provocation in carpal tunnel syndrome. Rosecrance JC, et al. **Electromyogr Clin Neurophysiol** 1997 Jun–Jul;37(4):219–29

Electrical studies as a prognostic factor in carpal tunnel syndrome [letter; comment] Andary MT, et al. **J Hand Surg [Am]** 1996 Sep;21(5):930–1. Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.

Electrical studies as a prognostic factor in the surgical treatment of carpal tunnel syndrome [letter; comment] Arons MS, et al. **J Hand Surg [Am]** 1996 May;21(3):518–21 . Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.

Evaluation of portable nerve conduction testing in the diagnosis of carpal tunnel syndrome. Atroshi I, et al. **J Hand Surg [Am]** 1996 Jul;21(4):651–4

Assessment of the carpal tunnel outcome instrument in patients with nerve–compression symptoms. Atroshi I, et al. **J Hand Surg [Am]** 1997 Mar;22(2):222–7

Electrical studies as a prognostic factor in the surgical treatment of carpal tunnel syndrome [letter; comment] Campbell WW. **J Hand Surg [Am]** 1996 May;21(3):527–8 . Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.

A comparison of traditional electrodiagnostic studies, electroneurometry, and vibrometry in the diagnosis of carpal tunnel syndrome. Cherniack MG, et al. **J Hand Surg [Am]** 1996 Jan;21(1):122–31

Electrodiagnostic testing and carpal tunnel release outcome [see comments] Glowacki KA, et al. **J Hand Surg [Am]** 1996 Jan;21(1):117–21. Comment in: J Hand Surg [Am] 1997 Jan;22(1):169–72.

Temperature effects on vibrotactile sensitivity threshold measurements: implications for carpal tunnel screening tests. Klinenberg E, et al. **J Hand Surg [Am]** 1996 Jan; 21(1):132–7

Electric studies as a prognostic factor in the surgical treatment of carpal tunnel syndrome surgery [letter; comment] MacLean IC. **J Hand Surg [Am]** 1996 May;

21(3):521–2. Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.
Electrical studies as a prognostic factor in the surgical treatment of carpal tunnel syndrome [letter; comment] Nathan PA, et al. **J Hand Surg [Am]** 1996 May;21(3):526–7 . Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.
Electric studies as a prognostic factor in the surgical treatment of carpal tunnel surgery [letter; comment] Olney RK. **J Hand Surg [Am]** 1996 May;21(3):522–3. Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.
Electrical studies as a prognostic factor in the surgical treatment of carpal tunnel syndrome [letter; comment] Rosenbaum RB. **J Hand Surg [Am]** 1996 May;21(3):523–4 . Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.
Electrical studies as a prognostic factor in the surgical treatment of carpal tunnel syndrome [letter; comment] Wilson JR. **J Hand Surg [Am]** 1996 May;21(3):524–6. Comment on: J Hand Surg [Am] 1994 Nov;19(6):893–900.
Value of the carpal compression test in the diagnosis of carpal tunnel syndrome. González del Pino J, et al. **J Hand Surg [Br]** 1997 Feb;22(1):38–41
The diagnosis of carpal tunnel syndrome. Sensitivity and specificity of some clinical and electrophysiological tests. Gunnarsson LG, et al. **J Hand Surg [Br]** 1997 Feb; 22(1):34–7
Assessment of vibrotactile sensitivity in patients with carpal tunnel syndrome. Checkosky CM, et al. **J Occup Environ Med** 1996 Jun;38(6):593–601
Tobacco, caffeine, alcohol, and carpal tunnel syndrome in American industry. A cross-sectional study of 1464 workers. Nathan PA, et al. **J Occup Environ Med** 1996 Mar;38(3):290–8
Prognostic value of a hand symptom diagram in surgery for carpal tunnel syndrome. Bessette L, et al. **J Rheumatol** 1997 Apr;24(4):726–34
Carpal tunnel syndrome, diagnostic conundrum [editorial] Hadler NM. **J Rheumatol** 1997 Mar;24(3):417–9
Increase of the early clinical diagnosis of carpal tunnel syndrome over the last twenty years [letter] Padua L, et al. **Muscle Nerve** 1997 Aug;20(8):1045–6
Evaluation of carpal tunnel syndrome in patients with polyneuropathy. Vogt T, et al. **Muscle Nerve** 1997 Feb; 20(2):153–7
Median nerve compression can be detected by magnetic resonance imaging of the carpal tunnel. Horch RE, et al. **Neurosurgery** 1997 Jul;41(1):76–82; discussion 82–3
Use of screening nerve conduction studies for predicting future carpal tunnel syndrome [letter] Bleecker ML. **Occup Environ Med** 1997 Aug;54(8):622
Use of screening nerve conduction studies for predicting future carpal tunnel syndrome. Werner RA, et al. **Occup Environ Med** 1997 Feb;54(2):96–100
Carpal tunnel syndrome heralding polymyalgia rheumatica. Herrera B, et al. **Scand J Rheumatol** 1997;26(3):222–4
Dynamic MR imaging of carpal tunnel syndrome. Brahme SK, et al. **Skeletal Radiol** 1997 Aug;26(8):482–7
[Carpal tunnel syndrome in pregnancy] Seror P. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(2):148–53 (Eng. Abstr.) **(Fre)**
[Critical study of electrophysiologic techniques for exploration of carpal tunnel syndrome] Bady B, et al. **Neurophysiol Clin** 1996;26(4):183–201 (55 ref.) (Eng. Abstr.) **(Fre)**
[The electrophysiological diagnosis of carpal tunnel syndrome] Jovičič A, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):67–70 (Eng. Abstr.) **(Rus)**
[Carpal tunnel syndrome as initial manifestation of polymyalgia rheumatica] Bernasconi D, et al. **Medicina (B Aires)** 1996;56(1):55–6 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Prevalence of abnormal median nerve conduction in applicants for industrial jobs. Bingham RC, et al. **Am J Ind Med** 1996 Sep;30(3):355–61
Self-reported carpal tunnel syndrome: predictors of work disability from the National Health Interview Survey Occupational Health Supplement. Blanc PD, et al. **Am J Ind Med** 1996 Sep;30(3):362–8
Re: Prevalence and work relatedness of self-reported carpal tunnel syndrome among U.S. workers [letter; comment] Nathan PA, et al. **Am J Ind Med** 1996 Oct;30(4):500–3. Comment on: Am J Ind Med 1995 Aug;27(4):451–70.
Tobacco, caffeine, alcohol, and carpal tunnel syndrome in American industry. A cross-sectional study of 1464 workers. Nathan PA, et al. **J Occup Environ Med** 1996 Mar;38(3):290–8
Carpal tunnel syndrome: what is attributable to work? The Montreal study. Rossignol M, et al. **Occup Environ Med** 1997 Jul;54(7):519–23
[Outbreak of carpal tunnel syndrome of the upper limbs in automobile seat assemblers: results of exposure evaluation and clinical investigation] Barbieri PG, et al. **Med Lav** 1996 Nov–Dec;87(6):646–55 (Eng. Abstr.) **(Ita)**
[Carpal tunnel syndrome in workers engaged in the assembly of manufactured products in various industries in the province of Brescia] Barbieri PG. **Med Lav** 1996 Nov–Dec; 87(6):686–92 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Focal tenosynovial amyloid deposition as a rare cause of median nerve compression at the wrist. Subramaniam P, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):138–9
Aetiology of work-related carpal tunnel syndrome: the role of lumbrical muscles and tool size on carpal tunnel pressures. Cobb TK, et al. **Ergonomics** 1996 Jan;39(1):103–7
Carpal tunnel syndrome and motor vehicle accidents. Ames EL. **J Am Osteopath Assoc** 1996 Apr;96(4):223–6
Carpal tunnel syndrome in the mucopolysaccharidoses and mucolipidoses. Haddad FS, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):576–82
Compression of the median nerve by an anomalous palmaris longus tendon: a case report. Sánchez Lorenzo J, et al. **J Hand Surg [Am]** 1996 Sep;21(5):858–60
Lunatomalacia associated with congenital shortening of the ulna in Langer–Giedion syndrome: a case report. Schuind FA, et al. **J Hand Surg [Am]** 1997 May;22(3):404–7
A case–control study of obesity as a risk factor for carpal tunnel syndrome in a population of 600 patients presenting for independent medical examination. Stallings SP, et al. **J Hand Surg [Am]** 1997 Mar;22(2):211–5
Review of carpal tunnel syndrome in children [letter; comment] Haddad FS, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):565–6. Comment on: J Hand Surg [Br] 1996 Feb;21(1):108–11.
Occupation as a risk factor for impaired sensory conduction of the median nerve at the carpal tunnel [letter] Nathan PA, et al. **J Hand Surg [Br]** 1996 Oct;21(5):701–2
Carpal tunnel syndrome in childhood [letter; comment] Al-Qattan MM. **J Hand Surg [Br]** 1996 Aug;21(4):566. Comment on: J Hand Surg [Br] 1996 Feb;21(1):108–11.
Mucolipidosis III (pseudo–Hurler polydystrophy); clinical studies in aged patients in one family. Umehara F, et al. **J Neurol Sci** 1997 Mar 10;146(2):167–72
Carpal tunnel syndrome as a herald of autoimmune rheumatic disorders [letter; comment] Dodds WN. **J R Soc Med** 1997 Jun;90(6):359–60. Comment on: J R Soc Med 1997 Apr;90(4):216–7.
Carpal tunnel syndrome as a herald of autoimmune rheumatic disorders [see comments] Pal B. **J R Soc Med** 1997 Apr; 90(4):216–7. Comment in: J R Soc Med 1997 Jun;90(6):359–60.
Nerve territory-oriented macrodactyly: unusual cause of carpal tunnel syndrome. Chen P, et al. **J Ultrasound Med** 1996 Sep;15(9):661–4
A case of carpal tunnel syndrome due to dialysis-related amyloidosis in a patient undergoing long-term hemodialysis. Chung YJ, et al. **Korean J Intern Med** 1997 Jan;12(1):75–9
Thromboangiitis obliterans with inaugural rheumatic manifestations. A report of three cases [see comments] Lambotte O, et al. **Rev Rhum Engl Ed** 1997 May; 64(5):334–8. Comment in: Rev Rhum Engl Ed 1997 May;64(5):281.
[Carpal tunnel syndrome following Pouteau's fracture] Vanderhoeven P, et al. **J Belge Med Phys Rehabil** 1980; 3(1):46–52 **(Fre)**
[Significance of double crush in carpal tunnel syndrome] Herczeg E, et al. **Handchir Mikrochir Plast Chir** 1997 May; 29(3):144–6 (Eng. Abstr.) **(Ger)**
[Etiological factors in carpal tunnel syndrome (letter; comment)] Roquer J, et al. **Aten Primaria** 1997 Feb 28; 19(3):149–50, 152. Comment on: Aten Primaria 1996 Feb 29;17(3):187–92. Comment on: Aten Primaria 1996 Jul–Aug;18(3):147. **(Spa)**

GENETICS

Familial autosomal-dominant carpal tunnel syndrome presenting in a 5-year-old-case report and review of the literature. Vadasz AG, et al. **Muscle Nerve** 1997 Mar; 20(3):376–8 (10 ref.)

METABOLISM

Amyloid deposition in the synovium and ligament in idiopathic carpal tunnel syndrome. Nakamichi KI, et al. **Muscle Nerve** 1996 Oct;19(10):1349–51

PATHOLOGY

Histopathology and clinical results of carpal tunnel syndrome in idiopathic cases and hemodialysis patients. Kinugasa K, et al. **Acta Med Okayama** 1997 Apr;51(2):63–70
Quantitative MRI and electrophysiology of preoperative carpal tunnel syndrome in a female population. Pierre-Jerome C, et al. **Ergonomics** 1997 Jun;40(6):642–9
Assessment of the ratio of carpal contents to carpal tunnel volume in patients with carpal tunnel syndrome: a preliminary report. Cobb TK, et al. **J Hand Surg [Am]** 1997 Jul;22(4):635–9
Anatomical classification of sites of compression of the palmar cutaneous branch of the median nerve. al-Qattan MM. **J Hand Surg [Br]** 1997 Feb;22(1):48–9
Transillumination in minimally invasive surgery for carpal tunnel release. Technical note. Franzini A, et al. **J Neurosurg** 1996 Dec;85(6):1184–6
Explant culture, immunofluorescence and electron-microscopic study of flexor retinaculum in carpal tunnel syndrome [see comments] Allampallam K, et al. **J Occup Environ Med** 1996 Mar;38(3):264–71. Comment in: J Occup Environ Med 1996 Sep;38(9):863.
Cells of flexor retinaculum in carpal tunnel syndrome [letter; comment] Nathan PA, et al. **J Occup Environ Med** 1996 Sep;38(9):863. Comment on: J Occup Environ Med 1996 Mar;38(3):264–71.
Bilateral fast magnetic resonance imaging of the operated carpal tunnel. Pierre-Jerome C, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):171–7
Microfilament system in the microvascular endothelium of the palmar fascia affected by mechanical stress applied from outside. Brandes G, et al. **Virchows Arch** 1996 Oct; 429(2–3):165–72

PHYSIOPATHOLOGY

Changes in excitability and impulse transmission following prolonged repetitive activity in normal subjects and patients with a focal nerve lesion. Kiernan MC, et al. **Brain** 1996 Dec;119 (Pt 6):2029–37
Conduction block and segmental velocities in carpal tunnel syndrome. Di Guglielmo G, et al. **Electroencephalogr Clin Neurophysiol** 1997 Aug; 105(4):321–7
Comparison of sensory mid-palm studies to other techniques in carpal tunnel syndrome. Andary MT, et al. **Electromyogr Clin Neurophysiol** 1996 Jul–Aug;36(5):279–85
F-wave analysis in patients with carpal tunnel syndrome. Fisher MA, et al. **Electromyogr Clin Neurophysiol** 1997 Jan–Feb;37(1):27–31
Median-radial sensory latencies comparison as a new test in carpal tunnel syndrome. Ghavanini MR, et al. **Electromyogr Clin Neurophysiol** 1996 Apr–May;36(3):171–3
Quantitative MRI and electrophysiology of preoperative carpal tunnel syndrome in a female population. Pierre-Jerome C, et al. **Ergonomics** 1997 Jun;40(6):642–9
Neurophysiological classification of carpal tunnel syndrome: assessment of 600 symptomatic hands. Padua L, et al. **Ital J Neurol Sci** 1997 Jun;18(3):145–50
Effect of carpal tunnel syndrome on median nerve proximal conduction estimated by F-waves. Anastasopoulos D, et al. **J Clin Neurophysiol** 1997 Jan;14(1):63–7
Displacement and strain of the median nerve at the wrist. Bay BK, et al. **J Hand Surg [Am]** 1997 Jul;22(4):621–7
Temperature effects on vibrotactile sensitivity threshold measurements: implications for carpal tunnel screening tests. Klinenberg E, et al. **J Hand Surg [Am]** 1996 Jan; 21(1):132–7
Lumbrical muscle hypertrophy in manual workers [letter; comment] Ranney D. **J Hand Surg [Am]** 1996 Jan;21(1):152 . Comment on: J Hand Surg [Am] 1995 Mar;20(2):186–92.
Sensory function assessment. A pilot comparison study of touch pressure threshold with texture and tactile discrimination. King PM. **J Hand Ther** 1997 Jan–Mar; 10(1):24–8
Effects of static fingertip loading on carpal tunnel pressure. Rempel D, et al. **J Orthop Res** 1997 May;15(3):422–6
Ulnar innervation of the thenar eminence with preservation of median innervation of first lumbrical muscle [letter] LoMonaco M, et al. **Muscle Nerve** 1997 May;20(5):629–30
Strength-duration properties of sensory and motor axons in carpal tunnel syndrome. Mogyoros I, et al. **Muscle Nerve** 1997 Apr;20(4):508–10
Terminal latency index in the carpal tunnel syndrome. Simovic D, et al. **Muscle Nerve** 1997 Sep;20(9):1178–80
Double-crush syndrome: a critical analysis. Wilbourn AJ, et al. **Neurology** 1997 Jul;49(1):21–9 (84 ref.)
Comments on Lang et al., PAIN, 60 (1995) 295—302 [letter; comment] Hancock J. **Pain** 1996 May–Jun;65(2–3):279–82 . Comment on: Pain 1995 Mar;60(3):295–302.
Neuropathic symptoms and musculoskeletal pain in carpal tunnel syndrome: prognostic and therapeutic implications. Lazaro RP. **Surg Neurol** 1997 Feb;47(2):115–7; discussion 117–9
[The diagnosis and treatment of carpal tunnel syndrome] Solé JV. **Neurologia** 1996 Oct;11(8):294–301 (38 ref.) (Eng. Abstr.) **(Spa)**
[Late ischemia and carpal tunnel syndrome secondary to catheterization of the radial artery] Sánchez-García ML, et al. **Rev Esp Anestesiol Reanim** 1997 May;44(5):201–3 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Closing the surveillance gap [see comments] Halperin WE, et al. **Am J Ind Med** 1996 Feb;29(2):223–4. Comment in: Am J Ind Med 1997 Apr;31(4):479–80.
Screening for carpal tunnel syndrome in the workplace. An analysis of portable nerve conduction devices. Pransky G, et al. **J Occup Environ Med** 1997 Aug;39(8):727–33

RADIOGRAPHY

Abnormalities of the hook of the hamate in patients with carpal tunnel syndrome. Richards RS, et al. **Ann Plast Surg** 1997 Jul;39(1):44–6
The use of routine wrist radiography in the evaluation of patients with carpal tunnel syndrome. Bindra RR, et al. **J Hand Surg [Am]** 1997 Jan;22(1):115–9
Intergroup comparisons of carpal tunnel dimensions. Widgerow AD, et al. **J Hand Surg [Am]** 1996 May; 21(3):357–9

REHABILITATION

Predictors of return to work following carpal tunnel release [see comments] Katz JN, et al. **Am J Ind Med** 1997 Jan; 31(1):85–91. Comment in: Am J Ind Med 1997

Sep;32(3):321–3.
Re: Predictors of return to work after carpal tunnel release [letter; comment] Nathan PA, et al. **Am J Ind Med** 1997 Sep;32(3):321–3. Comment on: Am J Ind Med 1997 Jan;31(1):85–91.
Unilateral vs. bilateral carpal tunnel: challenges and approaches. Stanek EJ 3rd, et al. **Am J Ind Med** 1996 Jun; 29(6):669–78 (14 ref.)
The effect of a computer assisted instructional program on physical therapy students. Kinney P, et al. **J Allied Health** 1997 Spring;26(2):57–61
[Re: W.U. Weitbrecht, W. Schäfer, A. Walter: Is physiotherapy useful following carpal tunnel syndrome? Z. Orthop 133 (1995)429–431 (letter; comment)] von Reumont A. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec; 134(6):576. Comment on: Z Orthop Ihre Grenzgeb 1995 Sep–Oct;133(5):429–31. **(Ger)**

SURGERY

"Sympathy pains" in carpal tunnel syndrome. McLaughlin MR, et al. **Acta Neurochir (Wien)** 1996;138(9):1094–8
Recovery of sensory function after surgical decompression in carpal tunnel syndrome. Nygaard OP, et al. **Acta Neurol Scand** 1996 Oct;94(4):253–7
Surgical prognosis in carpal tunnel syndrome: usefulness of a preoperative neurophysiological assessment. Padua L, et al. **Acta Neurol Scand** 1996 Nov;94(5):343–6
Outcomes research in Washington state workers' compensation. Franklin GM, et al. **Am J Ind Med** 1996 Jun;29(6):642–8
"Two stitch" carpal tunnel surgery. A mini-incision technique. Frank CE. **Am J Orthop** 1996 Sep;25(9):650
Complete endoscopic carpal canal decompression. Okutsu I, et al. **Am J Orthop** 1996 May;25(5):365–8
Bier's block—under pressure? [letter] [see comments] Hunt SJ, et al. **Anaesthesia** 1997 Feb;52(2):188–9. Comment in: Anaesthesia 1997 Jul;52(7):713.
Re: Midpalmar approach to the carpal tunnel: an alternative to endoscopic release [letter; comment] Murphy RX Jr. **Ann Plast Surg** 1997 Jan;38(1):84. Comment on: Ann Plast Surg 1996 May;36(5):462–5.
Total ulnar nerve transection during endoscopic carpal tunnel release. del Piñal F, et al. **Arthroscopy** 1997 Apr;13(2):235–7
Carpal tunnel syndrome: unusual contraindications to endoscopic release. Jebson PJ, et al. **Arthroscopy** 1996 Dec; 12(6):749–51
Results of open carpal tunnel release: a comprehensive, retrospective study of 188 hands. Thurston A, et al. **Aust N Z J Surg** 1997 May;67(5):283–8 (56 ref.)
Short palmar incision: a new surgical approach for carpal tunnel syndrome. Luchetti R, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):197–206 (70 ref.) **(Eng, Ita)**
Endoscopic carpal tunnel release. The voice of polite dissent. Deune EG, et al. **Clin Plast Surg** 1996 Jul;23(3):487–505 (90 ref.)
Endoscopic carpal tunnel release. In favor. Nagle DJ. **Clin Plast Surg** 1996 Jul;23(3):477–86 (56 ref.)
Endoscopic carpal tunnel release. Chow JC. **Clin Sports Med** 1996 Oct;15(4):769–84 (38 ref.)
Recurrent carpal tunnel syndrome. Botte MJ, et al. **Hand Clin** 1996 Nov;12(4):731–43 (106 ref.)
The role of epineurotomy in the operative treatment of carpal tunnel syndrome. Leinberry CF, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):555–7
The effect of local infiltration with morphine before carpal tunnel release. Stahl S, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):551–4
Outcome assessment for carpal tunnel surgery: the relative responsiveness of generic, arthritis-specific, disease-specific, and physical examination measures. Amadio PC, et al. **J Hand Surg [Am]** 1996 May; 21(3):338–46
Patients' preferences and their relationship with satisfaction following carpal tunnel release. Bessette L, et al. **J Hand Surg [Am]** 1997 Jul;22(4):613–20
Distribution of nerve fibers in the standard incision for carpal tunnel decompression. Biyani A, et al. **J Hand Surg [Am]** 1996 Sep;21(5):855–7
Carpal tunnel release with and without epineurotomy: a comparative prospective trial. Blair WF, et al. **J Hand Surg [Am]** 1996 Jul;21(4):655–61
Outcome of reoperation for carpal tunnel syndrome. Cobb TK, et al. **J Hand Surg [Am]** 1996 May;21(3):347–56
Electrodiagnostic testing and carpal tunnel release outcome [letter; comment] Corwin HM. **J Hand Surg [Am]** 1997 Jan;22(1):169–72. Comment on: J Hand Surg [Am] 1996 Jan;21(1):117–21.
Long-term symptom outcomes of carpal tunnel syndrome and its treatment. DeStefano F, et al. **J Hand Surg [Am]** 1997 Mar;22(2):200–10
Electrodiagnostic testing and carpal tunnel release outcome [see comments] Glowacki KA, et al. **J Hand Surg [Am]** 1996 Jan;21(1):117–21. Comment in: J Hand Surg [Am] 1997 Jan;22(1):169–72.
Relation of preoperative nerve-conduction values to outcome in workers with surgically treated carpal tunnel syndrome. Higgs PE, et al. **J Hand Surg [Am]** 1997 Mar; 22(2):216–21
The hypothenar fat pad flap for management of recalcitrant carpal tunnel syndrome. Strickland JW, et al. **J Hand Surg [Am]** 1996 Sep;21(5):840–8
Reverse radial artery fascial flap: a treatment for the chronically scarred median nerve in recurrent carpal tunnel syndrome. Tham SK, et al. **J Hand Surg [Am]** 1996 Sep; 21(5):849–54
Acute carpal tunnel syndrome caused by hydroxyapatite crystals: a case report. Verfaillie S, et al. **J Hand Surg [Am]** 1996 May;21(3):360–2
Avoidance of transection of the palmar cutaneous branch of the median nerve in carpal tunnel release. Watchmaker GP, et al. **J Hand Surg [Am]** 1996 Jul;21(4):644–50
Flexor carpi radialis approach for carpal tunnel release. Weber RA, et al. **J Hand Surg [Am]** 1997 Jan;22(1):120–6
Pressure changes in Guyon's canal after carpal tunnel release. Ablove RH, et al. **J Hand Surg [Br]** 1996 Oct;21(5):664–5
Endoscopic carpal tunnel release: prospective assessment of 255 consecutive cases. Atroshi I, et al. **J Hand Surg [Br]** 1997 Feb;22(1):42–7
Carpal tunnel decompression under local anaesthetic and tourniquet control. Baguneid MS, et al. **J Hand Surg [Br]** 1997 Jun;22(3):322–4
Return to work after endoscopic and open carpal tunnel decompression [letter; comment] Burge P. **J Hand Surg [Br]** 1996 Oct;21(5):701. Comment on: J Hand Surg [Br] 1996 Apr;21(2):202–4.
Local symptoms after open carpal tunnel release. A randomized prospective trial of two incisions. Citron ND, et al. **J Hand Surg [Br]** 1997 Jun;22(3):317–21
Carpal tunnel syndrome in amyotrophic lateral sclerosis and late onset cerebellar ataxia. Mondelli M, et al. **J Hand Surg [Br]** 1996 Aug;21(4):553–8
Complete endoscopic carpal tunnel release in long-term haemodialysis patients. Okutsu I, et al. **J Hand Surg [Br]** 1996 Oct;21(5):668–71
Touch allodynia following endoscopic (single portal) or open decompression for carpal tunnel syndrome. Povlsen B, et al. **J Hand Surg [Br]** 1997 Jun;22(3):325–7
A severe infection following endoscopic carpal tunnel release. Rieger H, et al. **J Hand Surg [Br]** 1996 Oct; 21(5):672–4
A simple technique for identification of the distal extent of the transverse carpal ligament during single-portal endoscopic carpal tunnel release. Wheatley MJ. **J Hand Surg [Br]** 1996 Nov;21(6):1109–10
Transillumination in minimally invasive surgery for carpal tunnel release. Technical note. Franzini A, et al. **J Neurosurg** 1996 Dec;85(6):1184–6
Endoscopic carpal tunnel release. Innis PC. **J South Orthop Assoc** 1996 Winter;5(4):281–91 (62 ref.)
Improving health care, Part 2: A clinical improvement worksheet and users' manual. Nelson EC, et al. **Jt Comm J Qual Improv** 1996 Aug;22(8):531–48
A new device for safe and easy dilatation of the carpal canal in endoscopic surgical treatment of the carpal tunnel syndrome. Horch R. **Minim Invasive Neurosurg** 1996 Jun; 39(2):60–2
3M Agee Carpal Tunnel Release System. Rabb CH, et al. **Neurosurgery** 1997 Mar;40(3):639–41
Sequelae of carpal tunnel surgery: rationale for the design of a surgical approach [letter; comment] Segal HD. **Neurosurgery** 1996 Aug;39(2):422–3. Comment on: Neurosurgery 1995 Nov;37(5):931–5; discussion 935–6.
Office carpal tunnel release with wrist block and wrist tourniquet [see comments] Derkash RS, et al. **Orthopedics** 1996 Jul;19(7):589–90. Comment in: Orthopedics 1996 Oct;19(10):845.
Office carpal tunnel release [letter; comment] Freeman GC. **Orthopedics** 1996 Oct;19(10):845. Comment on: Orthopedics 1996 Jul;19(7):589–90.
Open vs endoscopic carpal tunnel release. Gibbs KE, et al. **Orthopedics** 1996 Dec;19(12):1025–8
Carpal tunnel release using minimally invasive technique [letter; comment] Nathan PA. **Plast Reconstr Surg** 1997 Apr;99(4):1195–6. Comment on: Plast Reconstr Surg 1996 May;97(6):1310–1.
Transverse carpal ligament: its effect on flexor tendon excursion, morphologic changes of the carpal canal, and on pinch and grip strengths after open carpal tunnel release. Netscher D, et al. **Plast Reconstr Surg** 1997 Sep; 100(3):636–42
Carpal tunnel release with short incision. Serra JM, et al. **Plast Reconstr Surg** 1997 Jan;99(1):129–35
Light at the beginning of the carpal tunnel? [letter; comment] Zimmermann JA, et al. **Plast Reconstr Surg** 1997 Jun; 99(7):2101–2. Comment on: Plast Reconstr Surg 1996 Aug;98(2):313–9; discussion 320.
Ligament lengthening compared with simple division of the transverse carpal ligament in the open treatment of carpal tunnel syndrome. Karlsson MK, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Mar; 31(1):65–9
Bilateral fast magnetic resonance imaging of the operated carpal tunnel. Pierre-Jerome C, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):171–7
Incidence and natural history of touch allodynia after open carpal tunnel release. Povlsen B, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):221–5
Carpal tunnel syndrome. Hudson AR, et al. **Surg Neurol** 1997 Feb;47(2):105–14
Neuropathic symptoms and musculoskeletal pain in carpal tunnel syndrome: prognostic and therapeutic implications. Lazaro RP. **Surg Neurol** 1997 Feb;47(2):115–7; discussion 117–9
[Endoscopic decompression of carpal tunnel syndrome with the "Agee one-portal system"] Hansen TB. **Ugeskr Laeger** 1997 Sep 15;159(38):5672–4 (Eng. Abstr.) **(Dan)**
[Surgical treatment of carpal tunnel syndrome: endoscopic or classical (open)? A prospective randomized trial] Hoefnagels WA, et al. **Ned Tijdschr Geneeskd** 1997 May 3;141(18):878–82 (Eng. Abstr.) **(Dut)**
[Endoscopic carpal tunnel ligament release--a risky current technique or a modern patient-oriented therapy] Lauterbach HH, et al. **Chirurg** 1997 May;68(5):525–9; discussion 530 (Eng. Abstr.) **(Ger)**
[Implantation of oxidized, regenerated cellulose for prevention of recurrence in surgical therapy of carpal tunnel syndrome] Loick J, et al. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):209–13 (Eng. Abstr.) **(Ger)**
[Experiences with endoscopic surgery in treatment of carpal tunnel syndrome. Preliminary results of a prospective study] Antoniadis G, et al. **Nervenarzt** 1997 Jun;68(6):503–8 (Eng. Abstr.) **(Ger)**
[Correction and reintervention in carpal tunnel syndrome. Report of 185 reoperations] Assmus H. **Nervenarzt** 1996 Dec;67(12):998–1002 (Eng. Abstr.) **(Ger)**
[The microsurgical treatment of the carpal tunnel syndrome] Bucciero A, et al. **Minerva Chir** 1997 May;52(5):687–9 (Eng. Abstr.) **(Ita)**
[The diagnosis and treatment of carpal tunnel syndrome] Solé JV. **Neurologia** 1996 Oct;11(8):294–301 (38 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Endoscopic carpal tunnel pressure measurement: a reliable technique for complete release. Hashizume H, et al. **Acta Med Okayama** 1997 Apr;51(2):105–10
The role of exercise for carpal tunnel syndrome [letter] Mollenkopf JR. **Clin J Pain** 1997 Jun;13(2):179
Carpal tunnel syndrome. von Schroeder HP, et al. **Hand Clin** 1996 Nov;12(4):643–55 (78 ref.)
Long-cane modification for carpal tunnel syndrome: a case report. Aquilante K, et al. **J Am Optom Assoc** 1996 Jun; 67(6):316–8
Vitamin B6 in carpal tunnel syndrome [letter; comment] Keniston RC, et al. **J Occup Environ Med** 1996 Oct; 38(10):959–60; discussion 960–1. Comment on: J Occup Environ Med 1996 May;38(5):485–91.
Vitamin B6 in carpal tunnel syndrome [letter; comment] Zoffuto AC. **J Occup Environ Med** 1996 Oct;38(10):959; discussion 960–1. Comment on: J Occup Environ Med 1996 May;38(5):485–91.
Variation in the treatment of carpal tunnel syndrome [letter] Scholten RJ, et al. **Muscle Nerve** 1997 Oct;20(10):1334–5
Noninvasive laser neurolysis in carpal tunnel syndrome. Weintraub MI. **Muscle Nerve** 1997 Aug;20(8):1029–31
[Carpal tunnel syndrome in pregnancy] Seror P. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(2):148–53 (Eng. Abstr.) **(Fre)**

ULTRASONOGRAPHY

Dynamic high-resolution sonography of the carpal tunnel. Chen P, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):533–7 (33 ref.)
[High-resolution ultrasonography in the study of carpal tunnel syndrome] Ferrari FS, et al. **Radiol Med (Torino)** 1997 Apr;93(4):336–41 (Eng. Abstr.) **(Ita)**

VIROLOGY

Acute bilateral carpal tunnel syndrome associated with human parvovirus B19 infection. Samii K, et al. **Clin Infect Dis** 1996 Jan;22(1):162–4

CARPETS see **FLOORS AND FLOORCOVERINGS**

CARPUS, ANIMAL

Vascular hamartomas of the dorsal carpal region in three young thoroughbred horses. Colbourne CM, et al. **Aust Vet J** 1997 Jan;75(1):20–3
A clinical perspective on lameness originating in the carpus. Bramlage LR, et al. **Equine Vet J Suppl** 1988 Sep;(6):12–8 (13 ref.)
Some observations on lameness associated with pain in the proximal metacarpal region. Dyson S. **Equine Vet J Suppl** 1988 Sep;(6):43–52
The effect of arthritis in the carpal joint on performance in Norwegian cold-blooded trotters. Dolvik NI, et al. **Vet Res Commun** 1996;20(6):505–12

ANATOMY & HISTOLOGY

Characterization of anatomic communications among the antebrachiocarpal, middle carpal, and carpometacarpal joints in cattle, using intra-articular latex, positive-contrast arthrography, and fluoroscopy. Desrochers A, et al. **Am J Vet Res** 1997 Jan;58(1):7–10
Anatomy of the distal interphalangeal joint of the mature horse: relationships with navicular suspensory ligaments, sensory nerves and neurovascular bundle. Bowker RM, et al. **Equine Vet J** 1997 Mar;29(2):126–35

Flexion test of the metacarpophalangeal and interphalangeal joints and flexion angle of the metacarpophalangeal joint in sound horses. Verschooten F, et al. **Equine Vet J** 1997 Jan;29(1):50–4

Articular size and curvature as determinants of carpal joint mobility and stability in strepsirhine primates. Hamrick MW. **J Morphol** 1996 Nov;230(2):113–27

GROWTH & DEVELOPMENT

Comparative analysis of weight gain, hand/wrist maturation, and dental emergence rates in chimpanzees aged 0–24 months from varying captive environments. Marzke MW, et al. **Am J Phys Anthropol** 1996 Jan;99(1):175–90

Appearance of ossification centers of the lower arm, wrist, lower leg, and ankle in immature orangutans and chimpanzees with an assessment of the relationship of ossification to dental development. Winkler LA. **Am J Phys Anthropol** 1996 Jan;99(1):191–203

INJURIES

A retrospective evaluation of the surgical management of equine carpal injury. Raidal SL, et al. **Aust Vet J** 1996 Sep;74(3):198–202

Luxation of the radial carpal bone in a cat. Pitcher GD. **J Small Anim Pract** 1996 Jun;37(6):292–5

Surgical treatment of a comminuted articular fracture of the accessory carpal bone in a thoroughbred horse. Munroe GA, et al. **Vet Rec** 1997 Jul 12;141(2):47–9

METABOLISM

Effect of tumor necrosis factor antibody on synovial fluid cytokine activities in equine antebrachiocarpal joints injected with endotoxin. Hawkins DL, et al. **Am J Vet Res** 1995 Oct;56(10):1292–9

The effect of strenuous versus moderate exercise on the metabolism of proteoglycans in articular cartilage from different weight-bearing regions of the equine third carpal bone. Little CB, et al. **Osteoarthritis Cartilage** 1997 May; 5(3):161–72

PATHOLOGY

Chronic tenosynovitis of the carpal extensor tendon sheaths in 15 horses. Platt D, et al. **Equine Vet J** 1997 Jan;29(1):11–6

Management of malunion of metacarpus III/IV in two calves. Steiner A, et al. **Zentralbl Veterinarmed A** 1996 Nov; 43(9):561–71

PHYSIOLOGY

Characterization of anatomic communications among the antebrachiocarpal, middle carpal, and carpometacarpal joints in cattle, using intra-articular latex, positive-contrast arthrography, and fluoroscopy. Desrochers A, et al. **Am J Vet Res** 1997 Jan;58(1):7–10

Intra-articular pressure, elastance, and range of motion in flexion of the equine metacarpophalangeal joint. Strand E, et al. **Am J Vet Res** 1995 Oct;56(10):1362–71

Flexion test of the metacarpophalangeal and interphalangeal joints and flexion angle of the metacarpophalangeal joint in sound horses. Verschooten F, et al. **Equine Vet J** 1997 Jan;29(1):50–4

Articular size and curvature as determinants of carpal joint mobility and stability in strepsirhine primates. Hamrick MW. **J Morphol** 1996 Nov;230(2):113–27

RADIOGRAPHY

Bony fragments in the tarsocrural and metacarpo- or metatarsophalangeal joints in the standardbred horse—a radiographic survey. Sandgren B. **Equine Vet J Suppl** 1988 Sep;(6):66–70

SURGERY

A retrospective evaluation of the surgical management of equine carpal injury. Raidal SL, et al. **Aust Vet J** 1996 Sep;74(3):198–202

Repair and function of synovium after arthroscopic synovectomy of the dorsal compartment of the equine antebrachiocarpal joint. Theoret CL, et al. **Vet Surg** 1996 Mar-Apr;25(2):142–53

Management of malunion of metacarpus III/IV in two calves. Steiner A, et al. **Zentralbl Veterinarmed A** 1996 Nov; 43(9):561–71

CARRAGEENAN

Lambda-carrageenan: a novel chiral selector for capillary electrophoresis. Beck GM, et al. **Chirality** 1996; 8(7):503–510

Antiinflammatory activity of tissue plasminogen activator in the carrageenan rat footpad model. Stringer KA, et al. **Free Radic Biol Med** 1997;22(6):985–8

A model for experimentally induced temperomandibular joint arthritis in rats: effects of carrageenan on neuropeptide-like immunoreactivity. Lundeberg T, et al. **Neuropeptides** 1996 Feb;30(1):37–41

Ketoprofen produces profound inhibition of spinal c-Fos protein expression resulting from an inflammatory stimulus but not from noxious heat. Buritova J, et al. **Pain** 1996 Oct;67(2–3):379–89

Expression of tissue factor and interleukin-1 beta in a novel rabbit model of disseminated intravascular coagulation induced by carrageenan and lipopolysaccharide. Elsayed YA, et al. **Pathobiology** 1995;63(6):328–40

[Changes in opioid receptor binding nature in rat brain and spinal cord following formalin or carrageenan-induced nociception] Ohta S, et al. **Masui** 1997 May;46(5):644–9 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

The protective role of selenium on the toxicity of cisplatin-contained chemotherapy regimen in cancer patients. Hu YJ, et al. **Biol Trace Elem Res** 1997 Mar; 56(3):331–41

CHEMISTRY

The effect of hydration upon the conformation and dynamics of neocarrabiose, a repeat unit of beta-carrageenan. Ueda K, et al. **Biopolymers** 1996 Apr;38(4):461–9

Antiherpetic and anticoagulant properties of carrageenans from the red seaweed Gigartina skottsbergii and their cyclized derivatives: correlation between structure and biological activity. Carlucci MJ, et al. **Int J Biol Macromol** 1997 Apr;20(2):97–105

On the specific role of coions and counterions on kappa-carrageenan conformation. Ciancia M, et al. **Int J Biol Macromol** 1997 Feb;20(1):35–41

Influence of ionic effects on the ordering and association phenomena in dilute and semidilute carrageenan solutions. Mischenko N, et al. **Int J Biol Macromol** 1996 Oct; 19(3):185–94

Polyelectrolyte/amphiphile interaction studied by surface tension measurements. Persson B, et al. **Int J Biol Macromol** 1996 Dec;19(4):263–9

Mixed iota-kappa carrageenan gels. Ridout MJ, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):5–8

The effect of hydrophobic character of drugs and helix-coil transition of kappa-carrageenan on the polyelectrolyte-drug interaction. Caram-Lelham N, et al. **Pharm Res** 1996 Jun;13(6):920–5

PHARMACOLOGY

Intraplantar morphine depresses spinal c-Fos expression induced by carrageenin inflammation but not by noxious heat. Honoré P, et al. **Br J Pharmacol** 1996 Jun; 118(3):671–80

The effects of morphine on carrageenin-induced spinal c-Fos expression are completely blocked by beta-funaltrexamine, a selective mu-opioid receptor antagonist. Honoré P, et al. **Brain Res** 1996 Sep 2;732(1–2):242–6

Carrageenan given as a jelly, does not initiate, but promotes the growth of aberrant crypt foci in the rat colon. Corpet DE, et al. **Cancer Lett** 1997 Mar 19;114(1–2):53–5

Vaginal formulations of carrageenan protect mice from herpes simplex virus infection. Zacharopoulos VR, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):465–8

Antiherpetic and anticoagulant properties of carrageenans from the red seaweed Gigartina skottsbergii and their cyclized derivatives: correlation between structure and biological activity. Carlucci MJ, et al. **Int J Biol Macromol** 1997 Apr;20(2):97–105

Inhibition of carrageenan-induced spinal c-Fos activation by systemically administered c-fos antisense oligodeoxynucleotides may be facilitated by local opening of the blood-spinal cord barrier. Gillardon F, et al. **J Neurosci Res** 1997 Mar 15;47(6):582–9

[Studies on the anticarcinogenic and immunomodulatory actions of 4-seleno-carrageenan] Suo JL. **Sheng Li Ko Hsueh Chin Chan** 1996 Jan;27(1):43–6 (Eng. Abstr.) **(Chi)**

TOXICITY

Cortical facilitatory action on centralis lateralis thalamic activity during the development of carrageenin-produced inflammation. Condés-Lara M, et al. **Arch Med Res** 1996 Autumn;27(3):265–73

Filament disassembly and loss of mammary myoepithelial cells after exposure to lambda-carrageenan. Tobacman JK. **Cancer Res** 1997 Jul 15;57(14):2823–6

Colonic mucosal lymphoid hyperplasia and apthoid ulcers in Crohn's disease [letter; comment] Marcus AJ. **Clin Radiol** 1997 Jun;52(6):480–1. Comment on: Clin Radiol 1996 Oct;51(10):706–8.

Aggravation of adjuvant arthritis by carrageenan. Silván AM, et al. **Gen Pharmacol** 1996 Jun;27(4):639–42

In vivo effect of diosmin on carrageenan and CCl4-induced lipid peroxidation in rat liver microsomes. Melin AM, et al. **J Biochem Toxicol** 1996;11(1):27–32

Effect of licorice roots on carrageenan-induced decrease in immune complexes clearance in mice. Matsumoto T, et al. **J Ethnopharmacol** 1996 Jul 26;53(1):1–4

Inflammatory responses to carrageenan injection in LEW/N and F344/N rats: LEW/N rats show sex- and age-dependent changes in inflammatory reactions. Misiewicz B, et al. **Neuroimmunomodulation** 1996 Mar-Jun; 3(2–3):93–101

Effects of nimesulide, a preferential cyclooxygenase-2 inhibitor, on carrageenan-induced pleurisy and stress-induced gastric lesions in rats. Nakatsugi S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):395–402

CARRIER AMPHOLYTES see **AMPHOLYTE MIXTURES**

CARRIER PROTEINS

Different effect of cold storage and rewarming on three pH regulating transporters in isolated rat hepatocytes. Forestal DA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G638–45

Purification and characterization of decorin core protein expressed in Escherichia coli as a maltose-binding protein fusion. Hering TM, et al. **Anal Biochem** 1996 Aug 15; 240(1):98–108

Specific immobilization of firefly luciferase through a biotin carboxyl carrier protein domain. Wang CY, et al. **Anal Biochem** 1997 Mar 1;246(1):133–9

Folate receptors. Antony AC. **Annu Rev Nutr** 1996;16:501–21 (86 ref.)

Peptide transporters in the intestine and the kidney. Leibach FH, et al. **Annu Rev Nutr** 1996;16:99–119 (119 ref.)

Alternative respiratory pathways of Escherichia coli: energetics and transcriptional regulation in response to electron acceptors. Unden G, et al. **Biochim Biophys Acta** 1997 Jul 4;1320(3):217–34 (129 ref.)

Collectins: collectors of microorganisms for the innate immune system. Lu J. **Bioessays** 1997 Jun;19(6):509–18 (79 ref.)

Membrane iodothyronine transporters, Part II: Review of protein biochemistry. Kragie L. **Endocr Res** 1996 May; 22(2):95–119 (119 ref.)

Molecular disorders of cholesteryl ester transfer protein. Yamashita S, et al. **J Atheroscler Thromb** 1996;3(1):1–11 (73 ref.)

SPECT imaging of dopamine transporter sites in normal and MPTP-Treated rhesus monkeys. Fischman AJ, et al. **J Nucl Med** 1997 Jan;38(1):144–50

TGF-beta mediated G1 arrest in a human melanoma cell line lacking p15INK4B: evidence for cooperation between p21Cip1/WAF1 and p27Kip1. Fløtenes VA, et al. **Oncogene** 1996 Dec 5;13(11):2447–57

Na,K-adenosinetriphosphatase: the paradigm of a membrane transport protein. Kotyk A, et al. **Physiol Res** 1995; 44(5):261–74 (93 ref.)

[Urea transporters] Ripoche P, et al. **Nephrologie** 1996; 17(7):383–8 (41 ref.) (Eng. Abstr.) **(Fre)**

[Pumps, channels and transporters of the renal tubule: a growing field of investigation (editorial)] Ronco P, et al. **Nephrologie** 1996;17(7):345 **(Fre)**

[Interferon] Tanaka H. **Gan To Kagaku Ryoho** 1997 Sep; 24(11):1471–6 (51 ref.) (Eng. Abstr.) **(Jpn)**

[Intrahepatic cholestasis] Adachi Y, et al. **Nippon Rinsho** 1996 Mar;54(3):788–93 (44 ref.) (Eng. Abstr.) **(Jpn)**

[NMR and other physical methods] Akutsu H. **Nippon Rinsho** 1996 Mar;54(3):725–30 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Malabsorption syndrome due to membrane transporter abnormality in absorptive epithelial cells] Bamba T, et al. **Nippon Rinsho** 1996 Mar;54(3):782–7 (16 ref.) (Eng. Abstr.) **(Jpn)**

[ATP-dependent glutathione conjugate export pump] Furukawa T, et al. **Nippon Rinsho** 1997 May;55(5):1083–90 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Na+/K+/2Cl- cotransport protein, Na+/Cl- cotransport protein] Inoue T, et al. **Nippon Rinsho** 1996 Mar; 54(3):625–31 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Aquaporin water channels] Ishibashi K. **Nippon Rinsho** 1996 Mar;54(3):685–91 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Na+ -dependent amino acid transporters: their structure and function] Kanai Y. **Nippon Rinsho** 1996 Mar; 54(3):368–45 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Artificial models of transport proteins in membrane] Kobuke Y. **Nippon Rinsho** 1996 Mar;54(3):737–43 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Organic anion carriers] Takikawa H. **Nippon Rinsho** 1996 Mar;54(3):646–51 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Complement-activating lectin, RaRF—from molecular structure to clinical issues] Kawakami M. **Nippon Saikingaku Zasshi** 1996 Aug;51(3):717–36 (107 ref.) **(Jpn)**

[Neurotransmitter transporters—a role of the molecular mechanism in nervous system diseases and drug poisoning] Nakamura S, et al. **Nippon Yakurigaku Zasshi** 1996 Sep; 108(3):99–100 (0 ref.) **(Jpn)**

[Cell membrane transport proteins: cross point of pharmacology and molecular biology] Shigekawa S, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):160–2 (6 ref.) **(Jpn)**

[The GS X pump family: ATP dependent multispecific organic anion transporters] Ishikawa T. **Tanpakushitsu Kakusan Koso** 1997 Jun;42(8):1285–94 (60 ref.) **(Jpn)**

[Amino acid neurotransmitter transporters] Saito N, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):253–60 (46 ref.) **(Jpn)**

[Aminetransporters] Shimada S. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):244–52 (41 ref.) **(Jpn)**

[Role of transporters in the detoxification of xenobiotics: recent advances in the study of cMOAT/MRP] Suzuki H, et al. **Tanpakushitsu Kakusan Koso** 1997 Jun; 42(8):1273–84 (83 ref.) **(Jpn)**

[Gicerin] Taira E, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):561–6 (22 ref.) **(Jpn)**

CARRIER PROTEINS

AGONISTS

3-Nitropropionic acid increases the intracellular Ca2+ in cultured astrocytes by reverse operation of the Na+-Ca2+ exchanger. Deshpande SB, et al. **Exp Neurol** 1997 May; 145(1):38–45

ANALYSIS

Skin-derived antileukoproteinase (SKALP) and epidermal fatty acid-binding protein (E-FABP): two novel markers of the psoriatic phenotype that respond differentially to topical steroid. Kuijpers AL, et al. **Acta Derm Venereol** 1997 Jan;77(1):14–9

Internexin, MAP1B, and nestin in cortical dysplasia as markers of developmental maturity. Crino PB, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):619–27

Differential sensitivity of estrogen/progesterone receptors and BRST-2 markers in metastatic ductal and lobular breast carcinoma to the skin. Wallace ML, et al. **Am J Dermatopathol** 1996 Jun;18(3):241–7

Asthma and endotoxin: lipopolysaccharide-binding protein and soluble CD14 in bronchoalveolar compartment. Dubin W, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L736–44

Characterization of the rabbit renal Na(+)-dicarboxylate cotransporter using antifusion protein antibodies. Pajor AM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1808–16

Relationship between soluble CD14, lipopolysaccharide binding protein, and the alveolar inflammatory response in patients with acute respiratory distress syndrome. Martin TR, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):937–44

Synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins. Stearns NA, et al. **Anal Biochem** 1997 May 1;247(2):348–56

Immunochemical analysis of dopamine transporter protein in Parkinson's disease. Miller GW, et al. **Ann Neurol** 1997 Apr;41(4):530–9

Increased NM23: MTS1 ratio inversely correlated with metastasis behaviour in human lung squamous cell carcinoma. Hsu JW, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):407–11

Expression of the retinoid-inducible polypeptide, midkine, in human epidermal keratinocytes. Inazumi T, et al. **Arch Dermatol Res** 1997 Jul;289(8):471–5

Lipophorin density variation during oogenesis on Rhodnius prolixus. Coelho HS, et al. **Arch Insect Biochem Physiol** 1997;35(3):301–13

Distribution of transforming growth factor beta1-binding proteins and low-affinity receptors during odontoblast differentiation in the mouse. Cam Y, et al. **Arch Oral Biol** 1997 May;42(5):385–91

Identification of zinc proteins in rat parotid saliva. Etzel KR, et al. **Arch Oral Biol** 1997 Feb;42(2):173–9

Determinants of plasma HDL-cholesterol in hypertriglyceridemic patients. Role of cholesterol-ester transfer protein and lecithin cholesteryl acyl transferase. Tato F, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan; 17(1):56–63

Detection and quantification of the leptin receptor splice variants Ob-Ra, b, and, e in different mouse tissues. Löllmann B, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):648–52

Two Rab proteins, vesicle-associated membrane protein 2 (VAMP-2) and secretory carrier membrane proteins (SCAMPs), are present on immunoisolated parietal cell tubulovesicles. Calhoun BC, et al. **Biochem J** 1997 Jul 15; 325 (Pt 2):559–64

Photoaffinity labeling of peroxisome proliferator binding proteins in rat hepatocytes; dehydroepiandrosterone sulfate- and bezafibrate-binding proteins. Sugiyama H, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):321–30

Single-chain Fv/folate conjugates mediate efficient lysis of folate-receptor-positive tumor cells. Cho BK, et al. **Bioconjug Chem** 1997 May-Jun;8(3):338–46

Photoaffinity labeling of tumor promoter-binding protein (CN-TPBP) and preparation of affinity sorbent gels. Azuma A, et al. **Biol Pharm Bull** 1997 Jan;20(1):6–9

Transforming growth factor beta 1 and its latent form binding protein-1 associate with elastic fibres in human dermis: accumulation in actinic damage and absence in anetoderma. Karonen T, et al. **Br J Dermatol** 1997 Jul;137(1):51–8

Non-erythroid spectrin (fodrin) in cutaneous tumours: diminished in cell membranes, increased in the cytoplasm. Tuominen H, et al. **Br J Dermatol** 1996 Oct;135(4):576–80

Localization of the glutamate transporter protein GLAST in rat retina. Lehre KP, et al. **Brain Res** 1997 Jan 2; 744(1):129–37

Immunoreactivity for GABA plasma membrane transporter, GAT-1, in the developing rat cerebral cortex: transient presence in the somata of neocortical and hippocampal neurons. Yan XX, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):1–19

Structural and functional roles of cytoskeletal proteins during repair of native guinea pig intestinal epithelium. Albers TM, et al. **Cell Biol Int** 1996 Dec;20(12):821–30

Immunohistochemical analysis of the proapoptotic protein Par-4 in normal rat tissues. Boghaert ER, et al. **Cell Growth Differ** 1997 Aug;8(8):881–90

Two populations of beta-spectrin in rat skeletal muscle. Porter GA, et al. **Cell Motil Cytoskeleton** 1997;37(1):7–19

Mycobacterium tuberculosis efpA encodes an efflux protein of the QacA transporter family. Doran JL, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):23–32

90K (Mac-2 BP) in human milk. D'Ostilio N, et al. **Clin Exp Immunol** 1996 Jun;104(3):543–6

Comparison of flow cytometry and western blotting to measure Hsp70. He L, et al. **Cytometry** 1996 Nov 1; 25(3):280–6

Isolation of proteins and nucleic acids by electrophoresis on disposable gel columns. Costa MA, et al. **Electrophoresis** 1996 Apr;17(4):781–3

Analysis of the biotin-binding protein actinavidin using affinity capillary electrophoresis. Okun VM, et al. **Electrophoresis** 1996 Oct;17(10):1627–32

Comparative concentrations of growth hormone-binding protein in maternal circulation, fetal circulation, and amniotic fluid. Harada I, et al. **Endocr J** 1997 Feb; 44(1):111–6

Immunohistochemical localization of leptin and uncoupling protein in white and brown adipose tissue. Cinti S, et al. **Endocrinology** 1997 Feb;138(2):797–804

Distribution and sites of synthesis of NTT4, an orphan member of the Na+/Cl(-)-dependent neurotransmitter transporter family, in the rat CNS. Luque JM, et al. **Eur J Neurosci** 1996 Jan;8(1):127–37

In vitro and in vivo characterisation of nor-beta-CIT: a potential radioligand for visualisation of the serotonin transporter in the brain. Bergström KA, et al. **Eur J Nucl Med** 1997 Jun;24(6):596–601

Peculiar distribution of fodrin in fat-storing cells. Aoki T, et al. **Exp Cell Res** 1997 Aug 1;234(2):313–20

Development of organic anion transport in the liver. Barth A, et al. **Exp Toxicol Pathol** 1996 Jul;48(5):421–32 (188 ref.)

NSF and SNAP are present on adrenal chromaffin granules. Burgoyne RD, et al. **FEBS Lett** 1997 Sep 8;414(2):349–52

SNAP-23 is located in the basolateral plasma membrane of rat pancreatic acinar cells. Gaisano HY, et al. **FEBS Lett** 1997 Sep 8;414(2):298–302

Evidence for a local action of growth hormone in embryonic tooth development in the rat. Zhang CZ, et al. **Growth Factors** 1997;14(2-3):131–43

Ultrastructural localization of the Na-K-Cl cotransporter in the lateral wall of the rabbit cochlear duct. Mizuta K, et al. **Hear Res** 1997 Apr;106(1-2):154–62

Immunocytochemical localization of the Menkes copper transport protein (ATP7A) to the trans-Golgi network. Dierick HA, et al. **Hum Mol Genet** 1997 Mar;6(3):409–16

Immunohistochemical localization of riboflavin carrier protein in testicular cells of mammals. Bhat KG, et al. **Indian J Exp Biol** 1995 Jan;33(1):12–6

Expression and serologic activity of a soluble recombinant Plasmodium vivax Duffy binding protein. Fraser T, et al. **Infect Immun** 1997 Jul;65(7):2772–7

Glycosphingolipid-binding protein of Borrelia burgdorferi sensu lato. Kaneda K, et al. **Infect Immun** 1997 Aug; 65(8):3180–5

Identification of the N-acetylneuraminyllactose-specific laminin-binding protein of Helicobacter pylori. Valkonen KH, et al. **Infect Immun** 1997 Mar;65(3):916–23

Increased expression of cyclin-dependent kinase inhibitor 2 (CDKN2A) gene product P16INK4A in ovarian cancer is associated with progression and unfavourable prognosis. Dong Y, et al. **Int J Cancer** 1997 Feb 20;74(1):57–63

Effect of milk processing on the concentration of folate-binding protein (FBP), folate-binding capacity and retention of 5-methyltetrahydrofolate. Wigertz K, et al. **Int J Food Sci Nutr** 1996 Jul;47(4):315–22

A putative monofunctional glycosyltransferase is expressed in Ralstonia eutropha. Paik J, et al. **J Bacteriol** 1997 Jun; 179(12):4061–5

Leaderless polypeptides efficiently extracted from whole cells by osmotic shock. Thorstenson YR, et al. **J Bacteriol** 1997 Sep;179(17):5333–9

Characterization of ficolins as novel elastin-binding proteins and molecular cloning of human ficolin-1. Harumiya S, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):745–51

Enzyme-linked immunoassay for midkine, and its application to evaluation of midkine levels in developing mouse brain and sera from patients with hepatocellular carcinomas. Muramatsu H, et al. **J Biochem (Tokyo)** 1996 Jun; 119(6):1171–5

Characterization of a 50-kDa component of epithelial basement membranes using GDA-J/F3 monoclonal antibody. Gayraud B, et al. **J Biol Chem** 1997 Apr 4; 272(14):9531–8

Isolation of osteogenic growth peptide from osteoblastic MC3T3 E1 cell cultures and demonstration of osteogenic growth peptide binding proteins. Greenberg Z, et al. **J Cell Biochem** 1997 Jun 1;65(3):359–67

Amphiphysin II (SH3P9; BIN1), a member of the amphiphysin/Rvs family, is concentrated in the cortical cytomatrix of axon initial segments and nodes of ranvier in brain and around T tubules in skeletal muscle. Butler MH, et al. **J Cell Biol** 1997 Jun 16;137(6):1355–67

Extracellular fibrillar structure of latent TGF beta binding protein-1: role in TGF beta-dependent endothelial-mesenchymal transformation during endocardial cushion tissue formation in mouse embryonic heart. Nakajima Y, et al. **J Cell Biol** 1997 Jan 13; 136(1):193–204

Localization of two cholinergic markers, choline acetyltransferase and vesicular acetylcholine transporter in the central nervous system of the rat: in situ hybridization histochemistry and immunohistochemistry. Ichikawa T, et al. **J Chem Neuroanat** 1997 Jun;13(1):23–39

Evidence of free and bound leptin in human circulation. Studies in lean and obese subjects and during short-term fasting. Sinha MK, et al. **J Clin Invest** 1996 Sep 15; 98(6):1277–82

Distribution of transferrin binding protein immunoreactivity in the chicken central and peripheral nervous systems. Cho SS, et al. **J Comp Neurol** 1997 Jun 2;382(2):260–71

Folate and folate-binding protein content in dairy products. Wigertz K, et al. **J Dairy Res** 1997 May;64(2):239–52

Presence of cyclophilin A in synovial fluids of patients with rheumatoid arthritis. Billich A, et al. **J Exp Med** 1997 Mar 3;185(5):975–80

Immunohistochemical localization of the Na-K-Cl co-transporter (NKCC1) in the gerbil inner ear. Crouch JJ, et al. **J Histochem Cytochem** 1997 Jun;45(6):773–8

A monoclonal antibody reacts with maltose-binding protein of Escherichia coli and related enteric bacteria. Hsu SC, et al. **J Immunol Methods** 1997 May 26;204(2):169–74

DNA polymorphisms and variant penicillin-binding proteins as evidence that relatively penicillin-resistant pneumococci in western Canada are clonally related. Swiatlo E, et al. **J Infect Dis** 1996 Oct;174(4):884–8

Microsomal triglyceride transfer protein in CaCo-2 cells: characterization and regulation. Mathur SN, et al. **J Lipid Res** 1997 Jan;38(1):61–7

Human and monkey cholinergic neurons visualized in paraffin-embedded tissues by immunoreactivity for VAChT, the vesicular acetylcholine transporter. Schafer MK, et al. **J Mol Neurosci** 1995;6(4):225–35

Localization of pleiotrophin and its mRNA in subpopulations of neurons and their corresponding axonal tracts suggests important roles in neural-glial interactions during development and in maturity. Silos-Santiago I, et al. **J Neurobiol** 1996 Nov;31(3):283–96

Immunogold localization of the dopamine transporter: an ultrastructural study of the rat ventral tegmental area. Nirenberg MJ, et al. **J Neurosci** 1997 Jun 1;17(11):4037–44

Iodine-123-IPT SPECT imaging of CNS dopamine transporters: nonlinear effects of normal aging on striatal uptake values. Mozley PD, et al. **J Nucl Med** 1996 Dec; 37(12):1965–70

Test/retest reproducibility of iodine-123-betaCIT SPECT brain measurement of dopamine transporters in Parkinson's patients. Seibyl JP, et al. **J Nucl Med** 1997 Sep;38(9):1453–9

Nigrostriatal dopaminergic imaging with iodine-123-beta CIT-FP/SPECT and fluorine-18-FDOPA/PET [letter] [see comments] Tissingh G, et al. **J Nucl Med** 1997 Aug; 38(8):1271–2. Comment in: J Nucl Med 1997 Aug;38(8):1266–7.

Brain dopamine transporter in spontaneously hypertensive rats. Watanabe Y, et al. **J Nucl Med** 1997 Mar;38(3):470–4

In situ hybridization study on tissue inhibitors of metalloproteinases (TIMPs) mRNA-expressing cells in human inflamed gingival tissue. Kubota T, et al. **J Periodontal Res** 1997 Jul;32(5):467–72

p16 overexpression: a potential early indicator of transformation in ovarian carcinoma. Shigemasa K, et al. **J Soc Gynecol Investig** 1997 Mar-Apr;4(2):95–102

Monoclonal and polyclonal development of digestive tract tumors in chimeric mice. Farber E. **Jpn J Cancer Res** 1997 Feb;88(2):inside front cover

Localization of the thiazide sensitive Na-Cl cotransporter, rTSC1 in the rat kidney. Plotkin MD, et al. **Kidney Int** 1996 Jul;50(1):174–83

Localization and regulation of renal Na+/myo-inositol cotransporter in diabetic rats. Wiese TJ, et al. **Kidney Int** 1996 Oct;50(4):1202–11

Endothelial cells of the kidney vasa recta express the urea transporter HUT11. Xu Y, et al. **Kidney Int** 1997 Jan; 51(1):138–46

Thiamin transporters in yeast. Iwashima A, et al. **Methods Enzymol** 1997;279:109–17 (15 ref.)

Estrogen and progesterone receptors and anti-gross cystic disease fluid protein 15 (BRST-2) fail to distinguish metastatic breast carcinoma from eccrine neoplasms. Wallace ML, et al. **Mod Pathol** 1995 Dec;8(9):897–901

Identification of a family of Rab G-proteins in Plasmodium falciparum and a detailed characterisation of pfrab6. de Castro FA, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):77–88

A new protein containing an SH2 domain that inhibits JAK kinases. Endo TA, et al. **Nature** 1997 Jun 26; 387(6636):921–4

Characterization and tissue distribution of opioid-binding cell adhesion molecule (OBCAM) using monoclonal antibodies. Hachisuka A, et al. **Neurochem Int** 1996 Apr;28(4):373–9

The 66-kDa neurofilament protein (NF-66): sequence analysis and evolution. Chan SO, et al. **Neurochem Res** 1996 Apr;21(4):449–55

[11C]RTI-32 PET studies of the dopamine transporter in early dopa-naive Parkinson's disease: implications for the symptomatic threshold. Guttman M, et al. **Neurology** 1997 Jun;48(6):1578–83

NGF and BDNF increase the immunoreactivity of vesicular acetylcholine transporter in cultured neurons from the embryonic rat septum. Takei N, et al. **Neurosci Lett** 1997 May 2;226(3):207–9

GP-2 is the major ATP-binding protein of pig pancreatic zymogen granule membranes [letter] Soriani M, et al. **Pancreas** 1997 Jan;14(1):102–3

Immunolocalization of the fatty acid-binding protein Sj-FABPc within adult Schistosoma japonicum. Gobert GN, et al. **Parasitology** 1997 Jul;115 (Pt 1):33-9
Cellular localization of gp46 at the human fetal-maternal interface. **Pak BJ, et al. Placenta** 1997 Sep;18(7):477-80
Target-independent cholinergic differentiation in the rat sympathetic nervous system. Schäfer MK, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4149-54
Biochemical characterization and intracellular localization of the Menkes disease protein. Yamaguchi Y, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14030-5
Infrequent alterations of the p16 (MTS-1) gene in human gastric cancer. Takaoka AS, et al. **Tumour Biol** 1997; 18(2):95-103
In situ localization of the putative movement protein (pr17) from potato leafroll luteovirus (PLRV) in infected and transgenic potato plants. Schmitz J, et al. **Virology** 1997 Sep 1;235(2):311-22
Phagocytosis of Helicobacter pylori bacteria differing in the heparan sulfate binding by human polymorphonuclear leukocytes. Chmiela M, et al. **Zentralbl Bakteriol** 1996 Mar; 283(3):346-50
Characterization of a large transferrin-binding protein from Actinobacillus pleuropneumoniae serotype 7. Wilke M, et al. **Zentralbl Veterinarmed [B]** 1997 Apr;44(2):73-86
[Immunocytochemistry with epitope tagging] Iida H. **Nippon Rinsho** 1996 Mar;54(3):731-6 (7 ref.) (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Endogenous inhibitor of Na-K-Cl cotransport system in inbred Dahl rats. Alvarez-Guerra M, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F356-63
Effects of Na-K-2Cl cotransport inhibition on myocardial Na and Ca during ischemia and reperfusion. Anderson SE, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C608-18
Prostaglandin E2 inhibits Na-K-2Cl cotransport in medullary thick ascending limb cells. Kaji DM, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C354-61
Urea inhibits Na-K-2Cl cotransport in medullary thick ascending limb cells. Kaji DM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C615-21
Inhibition of binding to fatty acid binding protein reduces the intracellular transport of fatty acids. Luxon BA. **Am J Physiol** 1996 Jul;271(1 Pt 1):G113-20
Inhibition of the transport function of membrane proteins by some substituted phenothiazines in E. coli and multidrug resistant tumor cells. Molnár J, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):481-6
Identification of critical positive charges in XIP, the Na/Ca exchange inhibitory peptide. Xu W, et al. **Arch Biochem Biophys** 1997 May 15;341(2):273-9
Inhibition of cholesterol ester transfer protein CGS 25159 and changes in lipoproteins in hamsters. Kothari HV, et al. **Atherosclerosis** 1997 Jan 3;128(1):59-66
Genistein inhibits Na+/Ca2+ exchange activity in primary rat cortical neuron culture. Wang C, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):86-90
Inhibition of melibiose transporter by amiloride in Escherichia coli. Young-Mog K, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):147-9
Ferriheme and ferroheme are isosteric inhibitors of fatty acid binding to rat liver fatty acid binding protein. Stewart JM, et al. **Biochem Cell Biol** 1996;74(2):249-55
Inhibition of hsc70-catalysed clathrin uncoating by HSJ1 proteins. Cheetham ME, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):103-8
Specific binding of 1-[2-(diphenylmethoxy)ethyl]-4-(3-phenyl propyl) piperazine (GBR-12935), an inhibitor of the dopamine transporter, to human CYP2D6. Hiroi T, et al. **Biochem Pharmacol** 1997 Jun 15;53(12):1937-9
Inhibition of endothelial cell amino acid transport System y+ by arginine analogs that inhibit nitric oxide synthase. McDonald KK, et al. **Biochim Biophys Acta** 1997 Feb 21; 1324(1):133-41
The implications of non-linear red blood cell partitioning for the pharmacokinetics and pharmacodynamics of the nucleoside transport inhibitor draflazine. Snoeck E, et al. **Br J Clin Pharmacol** 1996 Nov;42(5):605-13
1-(3-(9H-carbazol-9-yl)-1-propyl)-4-(2-methoxyphenyl) -4-piperidinol, a novel subtype selective inhibitor of the mouse type II GABA-transporter. Thomsen C, et al. **Br J Pharmacol** 1997 Mar;120(6):983-5
Isolation of cholesteryl ester transfer protein inhibitors from Panax ginseng roots. Kwon BM, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):444-5
Antidepressant drugs inhibit a glial 5-hydroxytryptamine transporter in rat brain. Bal N, et al. **Eur J Neurosci** 1997 Aug;9(8):1728-38
12-O-tetradecanoylphorbol-13-acetate inhibits aminophospholipid translocase activity and modifies the lateral motions of fluorescent phospholipid analogs in the plasma membrane of bovine aortic endothelial cells. Julien M, et al. **Exp Cell Res** 1997 Jul 10;234(1):125-31
A human leptin mutant induces weight gain in normal mice. Verploegen SA, et al. **FEBS Lett** 1997 Mar 24; 405(2):237-40
Use of phosphonocarboxylic acids as inhibitors of sodium-phosphate cotransport. Loghman-Adham M. **Gen Pharmacol** 1996 Mar;27(2):305-12 (92 ref.)
Anterior segment physiology after bumetanide inhibition of Na-K-Cl cotransport. Gabelt BT, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1700-7
Endogenous sodium-potassium-chloride cotransport inhibitor in congestive heart failure. Dubois-Randé JL, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1464-70
Inhibition of cholesteryl ester transfer protein by rosenonolactone derivatives. Kim YK, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):815-6
A novel isothiourea derivative selectively inhibits the reverse mode of Na+/Ca2+ exchange in cells expressing NCX1. Iwamoto T, et al. **J Biol Chem** 1996 Sep 13;271(37):22391-7
Inhibition of apolipoprotein B and triglyceride secretion in human hepatoma cells (HepG2). Haghpassand M, et al. **J Lipid Res** 1996 Jul;37(7):1468-80
2-Carbomethoxy-3-aryl-8-oxabicyclo[3.2.1]octanes: potent non-nitrogen inhibitors of monoamine transporters. Meltzer PC, et al. **J Med Chem** 1997 Aug 15;40(17):2661-73
Identification of important amino acid residues of the Na+-Ca2+ exchanger inhibitory peptide, XIP. He Z, et al. **J Membr Biol** 1997 Mar 15;156(2):149-56
Inhibition of the high-affinity brain glutamate transporter GLAST-1 via direct phosphorylation. Conradt M, et al. **J Neurochem** 1997 Mar;68(3):1244-51
Inhibition by drebrin of the actin-bundling activity of brain fascin, a protein localized in filopodia of growth cones. Sasaki Y, et al. **J Neurochem** 1996 Mar;66(3):980-8
Down-regulation of norepinephrine transporters on PC12 cells by transporter inhibitors. Zhu MY, et al. **J Neurochem** 1997 Jan;68(1):134-41
Recovery of dopamine transporter binding and function after intrastriatal administration of the irreversible inhibitor RTI-76 [3 beta-(3p-chlorophenyl) tropan-2 beta-carboxylic acid p-isothiocyanatophenylethyl ester hydrochloride]. Fleckenstein AE, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):200-6
S-8921, an ileal Na+/bile acid cotransporter inhibitor decreases serum cholesterol in hamsters. Hara S, et al. **Life Sci** 1997;60(24):PL 365-70
A Cyclosporin A-sensitive small molecular weight cyclophilin of filarial parasites. Ma D, et al. **Mol Biochem Parasitol** 1996 Aug;79(2):235-41
Identification of a novel transferable cis element in the promoter of an estrogen-responsive gene that modulates sensitivity to hormone and antihormone. Montano MM, et al. **Mol Endocrinol** 1997 Mar;11(3):330-41
Identification of a single amino acid, phenylalanine 586, that is responsible for high affinity interactions of tricyclic antidepressants with the human serotonin transporter. Barker EL, et al. **Mol Pharmacol** 1996 Oct;50(4):957-65
Inhibition of the cardiac sarcolemma Na+/Ca2+ exchanger by conformationally constrained small cyclic peptides. Khananshvili D, et al. **Mol Pharmacol** 1997 Jan; 51(1):126-31
Lanthanides inhibit the human noradrenaline, 5-hydroxytryptamine and dopamine transporters. Bryan-Lluka LJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):699-706
Inactivation of the cyclin-dependent kinase inhibitor p15INK4b by deletion and de novo methylation with independence of p16INK4a alterations in murine primary T-cell lymphomas. Malumbres M, et al. **Oncogene** 1997 Mar 20;14(11):1361-70
Enhancement of performance in multiple learning tasks by corticotropin-releasing factor-binding protein ligand inhibitors. Heinrichs SC, et al. **Peptides** 1997;18(5):711-6
Renal type II Na/Pi-cotransporter is strongly impaired whereas the Na/sulphate-cotransporter and aquaporin 1 are unchanged in cadmium-treated rats. Herak-Kramberger CM, et al. **Pflugers Arch** 1996 Jun; 432(2):336-44
Transport of dopamine at the blood-brain barrier of the guinea pig: inhibition by psychotropic drugs and nicotine. Martel CL, et al. **Pharm Res** 1996 Feb;13(2):290-5
Inhibition by 5-N-(4-chlorobenzyl)-2',4'-dimethylbenzamil of Na+/Ca2+ exchange and L-type Ca2+ channels in isolated cardiomyocytes. Sharikabad MN, et al. **Pharmacol Toxicol** 1997 Feb;80(2):57-61
Corticotropin-releasing factor-binding protein ligand inhibitor blunts excessive weight gain in genetically obese Zucker rats and rats during nicotine withdrawal. Heinrichs SC, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15475-80
An inhibitor of the microsomal triglyceride transfer protein inhibits apoB secretion from HepG2 cells. Jamil H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11991-5
Unraveling principles of lead discovery: from unfrustrated energy landscapes to novel molecular anchors. Rejto PA, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8945-50
Na-K/2Cl transporter inhibition for reduction of postischemic kidney failure tested in autologous reperfusion. Prestel R, et al. **Transpl Int** 1996;9 Suppl 1:S437-41
Inhibition of HIV-1 replication by cyclosporine A or related compounds correlates with the ability to disrupt the Gag-cyclophilin A interaction. Franke EK, et al. **Virology** 1996 Aug 1;222(1):279-82

BIOSYNTHESIS

Transient expression of the serotonin transporter in the developing mouse thalamocortical system. Brüning G, et al. **Acta Histochem** 1997 Mar;99(1):117-21
Localization of Menkes gene expression in the mouse brain; its association with neurological manifestations in Menkes model mice. Iwase T, et al. **Acta Neuropathol (Berl)** 1996; 91(5):482-8
Regulation of expression of taurine transport in two continuous renal epithelial cell lines and inhibition of taurine transporter by a site-directed antibody. Han X, et al. **Adv Exp Med Biol** 1996;403:173-91
Dexamethasone recovers phorbol-ester induced reduction of taurine transportation in mouse macrophage cell line, RAW 264.7. Kim HW, et al. **Adv Exp Med Biol** 1996;403:59-66
Cellular studies of the taurine transporter. Lake N, et al. **Adv Exp Med Biol** 1996;403:371-6
Polarity of stimulation and secretion of transforming growth factor-beta 1 by cultured proximal tubular cells. Phillips AO, et al. **Am J Pathol** 1997 Mar;150(3):1101-11
Expression of monocarboxylate transporter MCT1 by brain endothelium and glia in adult and suckling rats. Gerhart DZ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E207-13
Regulation of hepatocyte bile salt transporters during hepatic regeneration. Green RM, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 1):G621-7
Identification of brown fat and mechanisms for energy balance in the marsupial, Sminthopsis crassicaudata. Hope PJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R161-7
Raising at thermoneutrality prevents obesity and hyperphagia in BAT-ablated transgenic mice. Melnyk A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1088-93
Glucocorticoids upregulate taurocholate transport by ileal brush-border membrane. Nowicki MJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G197-203
Leptin increases uncoupling protein expression and energy expenditure. Scarpace PJ, et al. **Am J Physiol** 1997 Jul; 273(1 Pt 1):E226-30
A putative growth-related renal Na(+)-Pi cotransporter. Silverstein DM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R928-33
Molecular characterization of the Na-K-Cl cotransporter of bovine aortic endothelial cells. Yerby TR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C188-97
The utility of FK506-binding protein as a fusion partner in scintillation proximity assays: application to SH2 domains. Sonatore LM, et al. **Anal Biochem** 1996 Sep 5;240(2):289-97
Transformation of human glioma cell lines with the p16 gene inhibits cell proliferation. Hama S, et al. **Anticancer Res** 1997 May-Jun;17(3C):1933-8
Increased expression of fibronectin-binding proteins by fluoroquinolone-resistant Staphylococcus aureus exposed to subinhibitory levels of ciprofloxacin. Bisognano C, et al. **Antimicrob Agents Chemother** 1997 May;41(5):906-13
Penicillin-binding protein 4 overproduction increases beta-lactam resistance in Staphylococcus aureus. Henze UU, et al. **Antimicrob Agents Chemother** 1996 Sep; 40(9):2121-5
Suppression of methicillin resistance in a mecA-containing pre-methicillin-resistant Staphylococcus aureus strain is caused by the mecI-mediated repression of PBP 2' production. Kuwahara-Arai K, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2680-5
Expression of cutaneous fatty acid-binding protein and its mRNA in rat skin [published erratum appears in Arch Dermatol Res 1997 Feb;289(3):184] Watanabe R, et al. **Arch Dermatol Res** 1996 Jul;288(8):481-3
Regional distribution of HSP70 proteins after myocardial infraction. Kilgore JL, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):283-8
Cyclophilins are induced by hypoxia and heat stress in myogenic cells. Andreeva L, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):6-9
Loss of expression of the p16 gene is frequent in malignant skin tumors. Chang TG, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):85-8
Identification of a human cDNA homologue to the Drosophila translocation protein 1 (Dtrp1). Daimon M, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):100-4
Regulation of midkine messenger ribonucleic acid levels in cultured rat granulosa cells. Minegishi T, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):799-805
Activation but not inactivation of the MTS1 gene is associated with primary colorectal carcinomas. Ohhara M, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):791-5
The thiazolidinedione insulin sensitiser, BRL 49653, increases the expression of PPAR-gamma and aP2 in adipose tissue of high-fat-fed rats. Pearson SL, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):752-7
Developmental expression of the collagen-binding heat-shock protein GP46 and collagen types I and IV in rat tissues. Pak BJ, et al. **Biochem Cell Biol** 1996; 74(2):179-85
Folate binding protein: molecular characterization and transcript distribution in pig liver, kidney and jejunum. Van Hoozen CM, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):725-9
CbiX: a novel metal-binding protein involved in sirohaem biosynthesis in Bacillus megaterium. Beck R, et al. **Biochem Soc Trans** 1997 Feb;25(1):77S
Purification of L-selectin ligands synthesised by rat peripheral lymph nodes and cultured high endothelial cells. Derry CJ, et al. **Biochem Soc Trans** 1997 May;25(2):260S
Effect of the thiazolidinedione antihyperglycaemic agent BRL 49653 on liver fatty acid binding protein gene expression. Sidaway JE, et al. **Biochem Soc Trans** 1996

May;24(2):231S
Uncoupling protein in brown adipose tissue: molecular differentiation of the adipose tissues. Trayhurn P. **Biochem Soc Trans** 1996 May;24(2):402–6 (36 ref.)
Long–term food restriction down–regulates the density of serotonin transporters in the rat frontal cortex. Huether G, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1174–80
Serotonin transporter binding sites and mRNA levels in depressed persons committing suicide. Little KY, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1156–64
Interleukin–2 (IL–2) upregulates BAG–1 gene expression through serine–rich region within IL–2 receptor beta c chain. Adachi M, et al. **Blood** 1996 Dec 1;88(11):4118–23
Features of macrophage differentiation induced by p19INK4d, a specific inhibitor of cyclin D–dependent kinases. Adachi M, et al. **Blood** 1997 Jul 1;90(1):126–37
Defective transport is a common mechanism of acquired methotrexate resistance in acute lymphocytic leukemia and is associated with decreased reduced folate carrier expression. Gorlick R, et al. **Blood** 1997 Feb 1;89(3):1013–8
Midkine induces the transformation of NIH3T3 cells. Kadomatsu K, et al. **Br J Cancer** 1997;75(3):354–9
Absence of deletions but frequent loss of expression of p16INK4 in human ovarian tumours. Marchini S, et al. **Br J Cancer** 1997;76(2):146–9
Induction of p16 during immortalization by HPV 16 and 18 and not during malignant transformation. Nakao Y, et al. **Br J Cancer** 1997;75(10):1410–6
Pharmacological characterization of desensitization in a human mGlu1 alpha–expressing non–neuronal cell line co–transfected with a glutamate transporter. Desai MA, et al. **Br J Pharmacol** 1996 Jul;118(6):1558–64
Diabetes causes differential changes in CNS noradrenergic and dopaminergic neurons in the rat: a molecular study. Figlewicz DP, et al. **Brain Res** 1996 Oct 14;736(1–2):54–60
Effects of chronic cocaine administration on dopamine transporter mRNA and protein in the rat. Letchworth SR, et al. **Brain Res** 1997 Mar 7;750(1–2):214–22
Amygdala–kindled seizures increase the expression of corticotropin–releasing factor (CRF) and CRF–binding protein in GABAergic interneurons of the dentate hilus. Smith MA, et al. **Brain Res** 1997 Jan 16;745(1–2):248–56
Differential expression of heat shock 70 proteins in primary cultures from rat cerebellum. Voisin PJ, et al. **Brain Res** 1996 Nov 11;739(1–2):215–34
Quantitative gene expression of two types of glycine transporter in the rat central nervous system. Goebel DJ. **Brain Res Mol Brain Res** 1996 Aug;40(1):139–42
Estradiol–17 beta increases serotonin transporter (SERT) mRNA levels and the density of SERT–binding sites in female rat brain. McQueen JK, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):13–23
Rapid and transient up–regulation of Na+/myo–inositol cotransporter transcription in the brain of acute hypernatremic rats. Minami Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):64–70
Differential expression patterns of GABA transporters (GAT1–3) in the rat olfactory bulb. Nishimura M, et al. **Brain Res Mol Brain Res** 1997 May;45(2):268–74
Placental biogenic amine transporters: cloning and expression. Padbury JF, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):163–8
Effects of dexfenfluramine or 5,7–dihydroxytryptamine on tryptophan hydroxylase and serotonin transporter mRNAS in rat dorsal raphe. Semple–Rowland SL, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):121–7
Localization of gene expression for phosphatidylinositol transfer protein in the brain of developing and mature rats. Utsunomiya A, et al. **Brain Res Mol Brain Res** 1997 May; 45(2):349–52
Parathyroid hormone, prostaglandin E2, and 1,25–dihydroxyvitamin D3 decrease the level of Na+–Ca2+ exchange protein in osteoblastic cells. Krieger NS. **Calcif Tissue Int** 1997 May;60(5):473–8
Comparison of biological phenotypes according to midkine expression in gastric cancer cells and their autocrine activities could be modulated by pentosan polysulfate. Rha SY, et al. **Cancer Lett** 1997 Sep 16;118(1):37–46
Enhanced coexpression of thioredoxin and high mobility group protein 1 genes in human hepatocellular carcinoma and the possible association with decreased sensitivity to cisplatin. Kawahara N, et al. **Cancer Res** 1996 Dec 1; 56(23):5330–3
FOG, a multitype zinc finger protein, acts as a cofactor for transcription factor GATA–1 in erythroid and megakaryocytic differentiation. Tsang AP, et al. **Cell** 1997 Jul 11;90(1):109–19
A coplanar PCB induces a selenium binding protein as a major cytosolic protein in rat liver. Ishii Y, et al. **Chemosphere** 1996 Feb;32(3):509–15
Jagged2: a serrate–like gene expressed during rat embryogenesis. Shawber C, et al. **Dev Biol** 1996 Nov 25; 180(1):370–6
Differential expression of C–protein isoforms in the developing heart of normal and cardiac lethal mutant axolotls (Ambystoma mexicanum). Ward SM, et al. **Dev Dyn** 1996 Feb;205(2):93–103
Expression of neurotrophin trk and p75 receptors in quail embryos undergoing gastrulation and neurulation. Zhang D, et al. **Dev Dyn** 1996 Feb;205(2):150–61
Temporal and spatial expression of an intestinal Na+/PO4 3– cotransporter correlates with epithelial transformation during thyroid hormone–dependent frog metamorphosis. Ishizuya–Oka A, et al. **Dev Genet** 1997;20(1):53–66
Protease nexin–1 is expressed at the mouse met–/mesencephalic junction and FGF signaling regulates its promoter activity in primary met–/mesencephalic cells. Küry P, et al. **Development** 1997 Mar;124(6):1251–62
Interactions between leptin and hypothalamic neuropeptide Y neurons in the control of food intake and energy homeostasis in the rat. Wang Q, et al. **Diabetes** 1997 Mar; 46(3):335–41
Ras proteins mediate induction of uncoupling protein, IGF–I, and IGF–I receptor in rat fetal brown adipocyte cell lines. Porras A, et al. **DNA Cell Biol** 1996 Nov;15(11):921–8
Fission yeast Sop2p: a novel and evolutionarily conserved protein that interacts with Arp3p and modulates profilin function. Balasubramanian MK, et al. **EMBO J** 1996 Dec 2;15(23):6426–37
Regulation of cellular rabbit growth hormone (GH) receptor and GH–binding protein generation in vitro. Bick T, et al. **Endocrinology** 1996 Sep;137(9):3977–85
Regulation by thyroid–stimulating hormone of sodium/iodide symporter gene expression and protein levels in FRTL–5 cells. Kogai T, et al. **Endocrinology** 1997 Jun;138(6):2227–32
Expression and characterization of a putative high affinity human soluble leptin receptor. Liu C, et al. **Endocrinology** 1997 Aug;138(8):3548–54
Regulation of uncoupling protein messenger ribonucleic acid and 5'–deiodinase activity by thyroid hormones in fetal brown adipose tissue. Obregón MJ, et al. **Endocrinology** 1996 Nov;137(11):4721–9
Functional STAT 1 and 3 signaling by the leptin receptor (OB–R); reduced expression of the rat fatty leptin receptor in transfected cells. Rosenblum CI, et al. **Endocrinology** 1996 Nov;137(11):5178–81
Renal expression of serum–type mannan–binding protein in rat. Morio H, et al. **Eur J Biochem** 1997 Feb 1;243(3):770–4
Distribution and sites of synthesis of NTT4, an orphan member of the Na+/Cl(–)–dependent neurotransmitter transporter family, in the rat CNS. Luque JM, et al. **Eur J Neurosci** 1996 Jan;8(1):127–37
Functional link between tyrosine phosphorylation and human serotonin transporter gene expression. Prasad PD, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):85–92
Analysis of metal–regulated metallothionein and heat shock gene expression in HeLa–derived cadmium–resistant cells. Cigliano S, et al. **Exp Cell Res** 1996 Nov 1;228(2):173–80
The neuronal stress response: nuclear translocation of heat shock proteins as an indicator of hyperthermic stress. Manzerra P, et al. **Exp Cell Res** 1996 Nov 25;229(1):35–47
Axotomy increases the expression of glucose–regulated protein 78 kDa in rat facial nucleus. Moreno–Flores MT, et al. **Exp Neurol** 1997 Jul;146(1):10–6
Hepatic microsomal triglyceride transfer protein messenger RNA concentrations are increased by dietary cholesterol in hamsters. Bennett AJ, et al. **FEBS Lett** 1996 Oct 7; 394(3):247–50
Expression of the putative membrane fatty acid transporter (FAT) in taste buds of the circumvallate papillae in rats. Fukuwatari T, et al. **FEBS Lett** 1997 Sep 8;414(2):461–4
Expression of the gene for tear lipocalin/von Ebner's gland protein in human prostate. Holzfeind P, et al. **FEBS Lett** 1996 Oct 21;395(2–3):95–8
Structural, functional analysis and localization of the human CAP18 gene. Larrick JW, et al. **FEBS Lett** 1996 Nov 25; 398(1):74–80
Regulation of leptin receptor and NPY gene expression in hypothalamus of leptin–treated obese (ob/ob) and cold–exposed lean mice. Mercer JG, et al. **FEBS Lett** 1997 Feb 3;402(2–3):185–8
The regulation of Streptococcus mutans glucan–binding protein A expression. Banas JA, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):289–92
Nitrogen dioxide–induced expression of a 78 kDa protein in pulmonary artery endothelial cells. Li YD, et al. **Free Radic Biol Med** 1996;21(2):163–71
Ubiquitous expression and testis–specific alternative polyadenylation of mRNA for the human Ran GTPase activator RanGAP1. Krebber H, et al. **Gene** 1996 Nov 21; 180(1–2):7–11
How is osmotic regulation of transcription of the Escherichia coli proU operon achieved? A review and a model. Gowrishankar J, et al. **Genetica** 1996 May;97(3):363–78 (140 ref.)
Gene assignment, expression, and homology of human tropomodulin. Sung LA, et al. **Genomics** 1996 May 15; 34(1):92–6
Neuronal dependency of the glycine transporter GLYT1 expression in glial cells. Zafra F, et al. **Glia** 1997 Jun; 20(2):155–62
Growth hormone (GH)–binding proteins in GH–resistant guinea pigs. Hull KL, et al. **Growth Regul** 1996 Sep; 6(3):165–75
Hepatic basolateral sodium–dependent–bile acid transporter expression in two unusual cases of hypercholanemia and in extrahepatic biliary atresia. Shneider BL, et al. **Hepatology** 1997 May;25(5):1176–83
Biosynthesis of human ficolin, an Escherichia coli–binding protein, by monocytes: comparison with the synthesis of two macrophage–specific proteins, C1q and the mannose receptor. Lu J, et al. **Immunology** 1996 Oct;89(2):289–94
Induction of metallothionein–like cadmium–binding protein in the testis by oral cadmium administration in rats. Ohta H, et al. **Ind Health** 1997;35(1):96–103
Frequent detection of aberrant RNA transcripts of the CDKN2 gene in human gastric adenocarcinoma. Chen YJ, et al. **Int J Cancer** 1997 May 2;71(3):350–4
A comparison of p53 and p16 expression in human tumor cells treated with hyperthermia or ionizing radiation. Valenzuela MT, et al. **Int J Cancer** 1997 Jul 17;72(2):307–12
Correlation of repressed transcription of alpha–tocopherol transfer protein with serum alpha–tocopherol during hepatocarcinogenesis. Wu CG, et al. **Int J Cancer** 1997 May 16;71(4):686–90
Expression of high–mobility group–1 mRNA in human gastrointestinal adenocarcinoma and corresponding non–cancerous mucosa. Xiang YY, et al. **Int J Cancer** 1997 Feb 20;74(1):1–6
Crescent, a novel chick gene encoding a Frizzled–like cysteine–rich domain, is expressed in anterior regions during early embryogenesis. Pfeffer PL, et al. **Int J Dev Biol** 1997 Jun;41(3):449–58
Effects of calcium–modulating hormones on thiazide receptor density. Blakely P, et al. **J Am Soc Nephrol** 1996 Jul; 7(7):1052–7
PfeR, an enterobactin–responsive activator of ferric enterobactin receptor gene expression in Pseudomonas aeruginosa. Dean CR, et al. **J Bacteriol** 1996 Sep; 178(18):5361–9
Autodisplay: one–component system for efficient surface display and release of soluble recombinant proteins from Escherichia coli. Maurer J, et al. **J Bacteriol** 1997 Feb; 179(3):794–804
Tissue kallikrein–binding protein reduces blood pressure in transgenic mice. Chen LM, et al. **J Biol Chem** 1996 Nov 1;271(44):27590–4
RFC–1 gene expression regulates folate absorption in mouse small intestine. Chiao JH, et al. **J Biol Chem** 1997 Apr 25;272(17):11165–70
Analysis of the transmembrane topology and membrane assembly of the GAT–1 gamma–aminobutyric acid transporter. Clark JA. **J Biol Chem** 1997 Jun 6; 272(23):14695–704
Characterization of PKIgamma, a novel isoform of the protein kinase inhibitor of cAMP–dependent protein kinase. Collins SP, et al. **J Biol Chem** 1997 Jul 18;272(29):18169–78
DNA binding is not sufficient for H–NS–mediated repression of proU expression. Jordi BJ, et al. **J Biol Chem** 1997 May 2;272(18):12083–90
Cloning of a putative vesicle transport–related protein, RA410, from cultured rat astrocytes and its expression in ischemic rat brain. Matsuo N, et al. **J Biol Chem** 1997 Jun 27;272(26):16438–44
Two amino acid residues in the IIIS5 segment of L–type calcium channels differentially contribute to 1,4–dihydropyridine sensitivity. Mitterdorfer J, et al. **J Biol Chem** 1996 Nov 29;271(48):30330–5
Suppressor and activator functions mediated by a repeated heptad sequence in the liver fatty acid–binding protein gene (Fabpl). Effects on renal, small intestinal, and colonic epithelial cell gene expression in transgenic mice. Simon TC, et al. **J Biol Chem** 1997 Apr 18;272(16):10652–63
Evidence that a specific interaction between an 18–base cis–element in the 5'–untranslated region of human folate receptor–alpha mRNA and a 46–kDa cytosolic trans–factor is critical for translation. Sun XL, et al. **J Biol Chem** 1996 Oct 11;271(41):25539–47
Constitutive expression of the interferon–inducible protein p202 in NIH 3T3 cells affects cell cycle progression. Lembo D, et al. **J Biol Regul Homeost Agents** 1995 Apr–Jun; 9(2):42–6
Tissue–specific differences in heat shock protein hsc70 and hsp70 in the control and hyperthermic rabbit. Manzerra P, et al. **J Cell Physiol** 1997 Feb;170(2):130–7
Induction of Na+/myo–inositol cotransporter mRNA after focal cerebral ischemia: evidence for extensive osmotic stress in remote areas. Yamashita T, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1203–10
Spatio–temporally differential expression of genes for three members of fatty acid binding proteins in developing and mature rat brains. Owada Y, et al. **J Chem Neuroanat** 1996 Dec;12(2):113–22
Molecular cloning and characterization of the vasopressin–regulated urea transporter of rat kidney collecting ducts. Shayakul C, et al. **J Clin Invest** 1996 Dec 1;98(11):2580–7
Ontogenic expression of the Na(+)–independent organic anion transporting polypeptide (oatp) in rat liver and kidney. Dubuisson C, et al. **J Hepatol** 1996 Dec; 25(6):932–40
Taurine is an osmolyte in rat liver macrophages (Kupffer cells). Warskulat U, et al. **J Hepatol** 1997 Jun;26(6):1340–7
Evidence from in vitro differentiating cells that adrenoceptor agonists can increase uncoupling protein mRNA level in adipocytes of adult humans: an RT–PCR study. Champigny O, et al. **J Lipid Res** 1996 Sep;37(9):1907–14
Increased prebeta–HDL levels, cholesterol efflux, and LCAT–mediated esterification in mice expressing the human cholesteryl ester transfer protein (CETP) and human apolipoprotein A–I (apoA–I) transgenes. Francone OL, et al. **J Lipid Res** 1996 Jun;37(6):1268–77
Protease nexin I (PNI) in mouse brain is expressed from the same gene as in seminal vesicle. Citron BA, et al. **J Mol Neurosci** 1996 Fall;7(3):183–91
Cumulative prognostic value of p16/CDKN2 and p53

oncoprotein expression in premalignant laryngeal lesions. Gallo O, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1161–3

Neural thrombin and protease nexin I kinetics after murine peripheral nerve injury. Smirnova IV, et al. **J Neurochem** 1996 Nov;67(5):2188–99

Coexpression of leptin receptor and preproneuropeptide Y mRNA in arcuate nucleus of mouse hypothalamus. Mercer JG, et al. **J Neuroendocrinol** 1996 Oct;8(10):733–5

Coexpression of two odorant-binding protein homologs in Drosophila: implications for olfactory coding. Hekmat-Scafe DS, et al. **J Neurosci** 1997 Mar 1; 17(5):1616–24

Neuronal regulation of glutamate transporter subtype expression in astrocytes. Swanson RA, et al. **J Neurosci** 1997 Feb 1;17(3):932–40

U-373 MG glioblastoma and IMR-32 neuroblastoma cell lines express the dopamine and vesicular monoamine transporters. Koutsilieri E, et al. **J Neurosci Res** 1996 Aug 1;45(3):269–75

Expression of DA11, a neuronal-injury-induced fatty acid binding protein, coincides with axon growth and neuronal differentiation during central nervous system development. Liu Y, et al. **J Neurosci Res** 1997 Jun 15;48(6):551–62

Concomitant presence of p16/cyclin-dependent kinase 4 and cyclin D/cyclin-dependent kinase 4 complexes in LNCaP prostatic cancer cell line. Itoh N, et al. **Jpn J Cancer Res** 1997 Mar;88(3):229–33

Cloning and high expression of rabbit FKBP25 in cornea. Kitagawa H, et al. **Jpn J Ophthalmol** 1996;40(2):133–41

Transcription regulation and alternative splicing of an early zygotic gene encoding two structurally distinct zinc finger proteins in Xenopus laevis. Bellefroid E, et al. **Mech Dev** 1997 Apr;63(1):99–108

Human immunodeficiency virus type-1 envelope glycoprotein gp120 induces expression of fusion regulatory protein (FRP)-1/CD98 on CD4+ T cells: a possible regulatory mechanism of HIV-induced syncytium formation. Suga S, et al. **Med Microbiol Immunol (Berl)** 1997 Mar;185(4):237–43

Expression of the tumour suppressor genes p15 and p16 in malignant melanoma. Robinson WA, et al. **Melanoma Res** 1996 Aug;6(4):285–9

Overproduction of penicillin-binding protein 7 suppresses thermosensitive growth defect at low osmolarity due to an spr mutation of Escherichia coli. Hara H, et al. **Microb Drug Resist** 1996 Spring;2(1):63–72

Effects of penicillin-binding protein 4 overproduction in Staphylococcus aureus. Henze UU, et al. **Microb Drug Resist** 1996 Summer;2(2):193–9

The gene encoding for penicillin-binding protein 5 of Enterococcus faecalis is useful for development of a species-specific DNA probe. Robbi C, et al. **Microb Drug Resist** 1996 Summer;2(2):215–8

Characterization of a Schistosoma mansoni cDNA encoding a B-like cyclophilin and its expression in Escherichia coli. Klinkert MQ, et al. **Mol Biochem Parasitol** 1995 Dec; 75(1):99–111

Midkine in the progression of rat N-nitroso-N-methylurea-induced mammary tumors. Chen Y, et al. **Mol Carcinog** 1996 Nov;17(3):112–6

Liver and intestinal fatty acid binding proteins in control and TGF beta 1 gene targeted deficient mice. Fontaine RN, et al. **Mol Cell Biochem** 1996 Jun 21;159(2):149–53

Differential regulation of GRP78 and GLUT1 expression in 3T3-L1 adipocytes. Kitzman HH Jr, et al. **Mol Cell Biochem** 1996 Sep 6;162(1):51–8

The viral oncoprotein E1A blocks transforming growth factor beta-mediated induction of p21/WAF1/Cip1 and p15/INK4B. Datto MB, et al. **Mol Cell Biol** 1997 Apr; 17(4):2030–7

Androgen regulation of the messenger RNA encoding diazepam-binding inhibitor/acyl-CoA-binding protein in the rat. Swinnen JV, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1-2):65–70

Cloning and functional expression of a human liver organic cation transporter. Zhang L, et al. **Mol Pharmacol** 1997 Jun;51(6):913–21

Use of translational fusions to the maltose-binding protein to produce and purify proteins in Pseudomonas syringae and assess their activity in vivo. Peñaloza-Vázquez A, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):637–41

Antisense oligonucleotide to the 70-kDa heat shock cognate protein inhibits synthesis of myelin basic protein. Aquino DA, et al. **Neurochem Res** 1996 Apr;21(4):417–22

Expression of mRNAs for neurotrophic factors (NGF, BDNF, NT-3, and GDNF) and their receptors (p75NGFR, trkA, trkB, and trkC) in the adult human peripheral nervous system and nonneural tissues. Yamamoto M, et al. **Neurochem Res** 1996 Aug;21(8):929–38

Expression of the cyclin-dependent kinase inhibitor p16 in Alzheimer's disease. Arendt T, et al. **Neuroreport** 1996 Nov 25;7(18):3047–9

Glutamate receptor agonists up-regulate glutamate transporter GLAST in astrocytes. Gegelashvili G, et al. **Neuroreport** 1996 Dec 20;8(1):261–5

Expression of leptin receptor mRNA in the hypothalamic arcuate nucleus--relationship with NPY neurones. Håkansson ML, et al. **Neuroreport** 1996 Nov 25; 7(18):3087–92

Upregulation of leptin receptor mRNA expression in obese mouse brain. Huang XF, et al. **Neuroreport** 1997 Mar 3; 8(4):1035–8

Dopamine antagonist and 'binge' cocaine effects on rat opioid and dopamine transporter mRNAs. Spangler R, et al. **Neuroreport** 1996 Sep 2;7(13):2196–200

Reduction of vesicular acetylcholine transporter mRNA in the rat septum following lead exposure. Sun X, et al. **Neuroreport** 1997 Mar 3;8(4):891–4

Expression of glial glutamate transporters GLT-1 and GLAST is unchanged in the hippocampus in fully kindled rats. Akbar MT, et al. **Neuroscience** 1997 May;78(2):351–9

Induction of glucose-regulated protein (glucose-regulated protein 78/BiP and glucose-regulated protein 94) and heat shock protein 70 transcripts in the immature rat brain following status epilepticus. Little E, et al. **Neuroscience** 1996 Nov;75(1):209–19

Expression of midkine and pleiotropin in ovarian tumors. Nakanishi T, et al. **Obstet Gynecol** 1997 Aug;90(2):285–90

Induction of Cip/Kip and Ink4 cyclin dependent kinase inhibitors by interferon-alpha in hematopoietic cell lines. Sangfelt O, et al. **Oncogene** 1997 Jan 30;14(4):415–23

Expression of biglycan, decorin and fibromodulin in the hypertrophic phase of experimental osteoarthritis. Dourado GS, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):187–96

Fetal and neonatal expression of the apical sodium-dependent bile acid transporter in the rat ileum and kidney. Shneider BL, et al. **Pediatr Res** 1997 Aug;42(2):189–94

Placental norepinephrine transporter development in the ovine fetus. Bzoskie I, et al. **Placenta** 1997 Jan;18(1):65–70

Functional expression of the plasma membrane serotonin transporter but not the vesicular monoamine transporter in human placental trophoblasts and choriocarcinoma cells. Prasad PD, et al. **Placenta** 1996 May;17(4):201–7

CHL1 encodes a component of the low-affinity nitrate uptake system in Arabidopsis and shows cell type-specific expression in roots. Huang NC, et al. **Plant Cell** 1996 Dec; 8(12):2183–91

Two cDNAs from potato are able to complement a phosphate uptake-deficient yeast mutant: identification of phosphate transporters from higher plants. Leggewie G, et al. **Plant Cell** 1997 Mar;9(3):381–92

A rapid increase in the level of binding protein (BiP) is accompanied by synthesis and degradation of storage proteins in pumpkin cotyledons. Hatano K, et al. **Plant Cell Physiol** 1997 Mar;38(3):344–51

Isolation, characterization and molecular cloning of the mannose-binding lectins from leaves and roots of garlic (Allium sativum L.). Smeets K, et al. **Plant Mol Biol** 1997 Jan;33(2):223–34

Antisense expression of the peptide transport gene AtPTR2-B delays flowering and arrests seed development in transgenic Arabidopsis plants. Song W, et al. **Plant Physiol** 1997 Jul;114(3):927–35

Genetic and developmental control of nuclear accumulation of COP1, a repressor of photomorphogenesis in Arabidopsis. von Arnim AG, et al. **Plant Physiol** 1997 Jul; 114(3):779–88

Selective induction of a cationic amino acid transporter by tumor necrosis factor-alpha in vascular endothelium. Durante W, et al. **Proc Assoc Am Physicians** 1996 Sep; 108(5):356–61

Casein kinase II is a selective target of HIV-1 transcriptional inhibitors. Critchfield JW, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6110–5

Expression cloning of the Golgi CMP-sialic acid transporter. Eckhardt M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7572–6

Inhibition of tumor progression by suppression of stress protein GRP78/BiP induction in fibrosarcoma B/C10ME. Jamora C, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):7690–4

Ancient origin of the complement lectin pathway revealed by molecular cloning of mannan binding protein-associated serine protease from a urochordate, the Japanese ascidian, Halocynthia roretzi. Ji X, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6340–5

Trigger factor is induced upon cold shock and enhances viability of Escherichia coli at low temperatures. Kandror O, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):4978–81

Preferential expression of an ammonium transporter and of two putative nitrate transporters in root hairs of tomato. Lauter FR, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):8139–44

Biochemical characterization and intracellular localization of the Menkes disease protein. Yamaguchi Y, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14030–5

The VAChT/ChAT "cholinergic gene locus": new aspects of genetic and vesicular regulation of cholinergic function. Erickson JD, et al. **Prog Brain Res** 1996;109:69–82 (50 ref.)

Expression of the vesicular acetylcholine transporter in mammalian cells. Varoqui H, et al. **Prog Brain Res** 1996; 109:83–95 (51 ref.)

Cellular localization and hormonal regulation of biosynthesis of insulin-like growth factor binding proteins and of the acid-labile subunit within rat liver. Scharf JG, et al. **Prog Growth Factor Res** 1995;6(2-4):175–80 (23 ref.)

High-level expression of soluble protein in Escherichia coli using a His6-tag and maltose-binding-protein double-affinity fusion system. Pryor KD, et al. **Protein Expr Purif** 1997 Aug;10(3):309–19

Use of CD14 and lipopolysaccharide binding protein mRNA expression as markers for acute rejection in rat small bowel transplantation. Cicalese L, et al. **Transplant Proc** 1996 Oct; 28(5):2470

Fine mapping of protein interaction surfaces with a PCR-based mutagenesis screen in yeast. Gstaiger M, et al. **Trends Genet** 1996 Oct;12(10):393–4

[Expression of the specific estrogen-binding protein in the liver of the androgenized mature female rats during liver regeneration after CCl4 intoxication] Shchelkunova TA, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):28–31 **(Rus)**

BLOOD

Age-dependent variation in the serum concentration of mannan-binding protein. Aittoniemi J, et al. **Acta Paediatr** 1996 Aug;85(8):906–9

Growth hormone-binding protein in short children. Carlsson L. **Acta Paediatr Suppl** 1996 Oct;417:105–7 (27 ref.)

Regulation of growth hormone-binding protein. Massa GG. **Acta Paediatr Suppl** 1996 Oct;417:102–4 (40 ref.)

Stearic acid, trans fatty acids, and dairy fat: effects on serum and lipoprotein lipids, apolipoproteins, lipoprotein(a), and lipid transfer proteins in healthy subjects. Aro A, et al. **Am J Clin Nutr** 1997 May;65(5):1419–26

Calpromotin, a cytoplasmic protein, is associated with the formation of dense cells in sickle cell anemia. Moore RB, et al. **Am J Hematol** 1997 Oct;56(2):100–6

Neutral-lipid transfers and cholesteryl ester transfer protein in hemodialyzed patients. Reade V, et al. **Am J Nephrol** 1996;16(5):394–401

Corticotropin-releasing factor and its binding protein: maternal serum levels in term and preterm deliveries. Berkowitz GS, et al. **Am J Obstet Gynecol** 1996 May; 174(5):1477–83

Role of protein kinases in regulating sheep erythrocyte K-Cl cotransport. Flatman PW, et al. **Am J Physiol** 1996 Jul; 271(1 Pt 1):C255–63

K(+)-Cl- cotransport and volume regulation in the light and the dense fraction of high-K+ dog red blood cells. Fujise H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R991–8

Na(+)-K(+)-2Cl- cotransport, Na+/H+ exchange, and cell volume in ferret erythrocytes. Mairbäurl H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1603–11

Role of high-affinity folate-binding protein in the plasma distribution of tetrahydrofolate in pigs. Sasaki K, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R105–10

One-step enzyme-linked immunosorbent assay (ELISA) for plasma fatty acid-binding protein. Wodzig KW, et al. **Ann Clin Biochem** 1997 May;34 (Pt 3):263–8

Serum mannan-binding lectin (MBL) in patients with infection: clinical and laboratory correlates. Aittoniemi J, et al. **APMIS** 1997 Aug;105(8):617–22

Evidences for a stage-specific juvenile hormone binding protein in the hemolymph of the silkworm, Bombyx mori L.: identification and characterization by photoaffinity labeling and immunological analyses. Park CH, et al. **Arch Insect Biochem Physiol** 1996;33(2):83–98

Growth hormone bioactivity and levels of growth hormone, growth hormone-binding protein, insulinlike growth factor I, and insulinlike growth factor-binding proteins in premature and full-term newborns during the first month of life. Radetti G, et al. **Arch Pediatr Adolesc Med** 1997 Feb;151(2):170–5

Relationship of plasma cholesteryl ester transfer protein to HDL cholesterol. Studies in normotriglyceridemia and moderate hypertriglyceridemia. Föger B, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1430–6

Plasma kinetics of cholesteryl ester transfer protein in the rabbit. Effects of dietary cholesterol. McPherson R, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):203–10

Induction of the acute-phase reaction increases heparin-binding proteins in plasma. Young E, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1568–74

Alterations in composition and concentration of lipoproteins and elevated cholesteryl ester transfer in non-insulin-dependent diabetes mellitus (NIDDM). Elchebly M, et al. **Atherosclerosis** 1996 Jun;123(1-2):93–101

Increased plasma cholesteryl ester transfer activity in obese children. Hayashibe H, et al. **Atherosclerosis** 1997 Feb 28; 129(1):53–8

Plasma cholesteryl ester synthesis, cholesteryl ester transfer protein concentration and activity in hypercholesterolemic women: effects of the degree of saturation of dietary fatty acids in the fasting and postprandial states. Lottenberg AM, et al. **Atherosclerosis** 1996 Oct 25;126(2):265–75

Plasma cholesteryl ester transfer protein concentration, high-density lipoprotein cholesterol esterification and transfer rates to lighter density lipoproteins in the fasting state and after a test meal are similar in Type II diabetics and normal controls. Lottenberg SA, et al. **Atherosclerosis** 1996 Nov 15;127(1):81–90

The cholesterol-raising diterpenes from coffee beans increase serum lipid transfer protein activity levels in humans. van Tol A, et al. **Atherosclerosis** 1997 Jul 25;132(2):251–4

Demonstration of a leptin binding factor in human serum. Diamond FB Jr, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):818–22

Plasma phospholipid mass transfer rate: relationship to plasma phospholipid and cholesteryl ester transfer activities and lipid parameters. Cheung MC, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):103–10

Acyl chain and headgroup specificity of human plasma phospholipid transfer protein. Huuskonen J, et al. **Biochim Biophys Acta** 1996 Oct 18;1303(3):207–14

Purification and properties of a lipid transfer particle from

Bombyx mori: comparison to the lipid transfer particle from Manduca sexta. Tsuchida K, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):57–65

Modulation of erythrocyte potassium chloride cotransport, potassium content, and density by dietary magnesium intake in transgenic SAD mouse. De Franceschi L, et al. **Blood** 1996 Oct 1;88(7):2738–44

Mannan binding protein in sera positive for rheumatoid factor. Kilpatrick DC. **Br J Rheumatol** 1997 Feb; 36(2):207–9

Release of lipopolysaccharide toxicity–modulating proteins in patients undergoing cardiopulmonary bypass using noncoated and heparin–coated extracorporeal circuits. A clinical pilot study. Bouma M, et al. **Chest** 1997 Mar; 111(3):577–83

Higher level of plasma cholesteryl ester transfer activity from high–density lipoprotein to apo B–containing lipoproteins in subjects with angiographically detectable coronary artery disease. Hibino T, et al. **Clin Cardiol** 1996 Jun; 19(6):483–6

Increased fatty acid–binding protein concentration in plasma of patients with chronic renal failure [letter] [published erratum appears in Clin Chem 1997 Apr;43(4):692] Górski J, et al. **Clin Chem** 1997 Jan;43(1):193–5

Serum concentrations of myoglobin vs human heart–type cytoplasmic fatty acid–binding protein in early detection of acute myocardial infarction. Ishii J, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1372–8

Growth hormone (GH) assays: influence of standard preparations, GH isoforms, assay characteristics, and GH–binding protein. Jansson C, et al. **Clin Chem** 1997 Jun; 43(6 Pt 1):950–6

Cholesteryl ester transfer activity in liver disease and cholestasis, and its relation with fatty acid composition of lipoprotein lipids. Iglesias A, et al. **Clin Chim Acta** 1996 Apr 30;248(2):157–74

Early detection of successful coronary reperfusion based on serum concentration of human heart–type cytoplasmic fatty acid–binding protein. Ishii J, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):13–27

Higher high density lipoprotein cholesterol associated with moderate alcohol consumption is not related to altered plasma lecithin:cholesterol acyltransferase and lipid transfer protein activity levels. Riemens SC, et al. **Clin Chim Acta** 1997 Feb 3;258(1):105–15

The level of lipopolysaccharide–binding protein is significantly increased in plasma in patients with the systemic inflammatory response syndrome. Myc A, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):113–6

Lack of effect of methylphenidate on serum growth hormone (GH), GH–binding protein, and insulin–like growth factor I. Toren P, et al. **Clin Neuropharmacol** 1997 Jun;20(3):264–9

Plasma cholesteryl ester transfer protein is lowered by treatment of hypercholesterolemia with cholestyramine. Carrilho AJ, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):82–8

Human syngeneic intestinal transplantation: evaluation of enterocyte viability with serum levels of intestinal fatty acid binding protein. Kuo PC, et al. **Clin Transplant** 1996 Jun;10(3):282–6

The lipid transfer activity of phosphatidylinositol transfer protein is sufficient to account for enhanced phospholipase C activity in turkey erythrocyte ghosts. Currie RA, et al. **Curr Biol** 1997 Mar 1;7(3):184–90

Effects of multiple daily insulin injections and intraperitoneal insulin therapy on cholesteryl ester transfer and lipoprotein lipase activities in NIDDM. Bagdade JD, et al. **Diabetes** 1997 Mar;46(3):414–20

Differing effects of pancreas–kidney transplantation with systemic versus portal venous drainage on cholesteryl ester transfer in IDDM subjects. Bagdade JD, et al. **Diabetes Care** 1996 Oct;19(10):1108–12

Effect of intraperitoneal insulin delivery on growth hormone binding protein, insulin–like growth factor (IGF)–I, and IGF–binding protein–3 in IDDM. Hanaire–Broutin H, et al. **Diabetologia** 1996 Dec;39(12):1498–504

Growth hormone–binding protein in the goat: characterization, evolution under exogenous growth hormone treatment, and correlation with liver growth hormone receptor levels. Jammes H, et al. **Domest Anim Endocrinol** 1996 Nov;13(6):477–89

Measurement of dimeric inhibin in porcine serum: evidence for low concentrations and existence of binding proteins. Meyer RL, et al. **Domest Anim Endocrinol** 1996 Nov; 13(6):503–10

Chemiluminescent enhanced CD47 detection on Western blotting. Yuan FF, et al. **Electrophoresis** 1996 Jan; 17(1):219–20

Comparative concentrations of growth hormone–binding protein in maternal circulation, fetal circulation, and amniotic fluid. Harada I, et al. **Endocr J** 1997 Feb; 44(1):111–6

Guinea pig serum contains a specific high affinity growth hormone–binding protein with novel ligand specificity [see comments] Ymer SI, et al. **Endocrinology** 1997 Sep; 138(9):3577–86. Comment in: Endocrinology 1997 Sep;138(9):3575–6.

Modulation of the activity of the human cholesteryl ester transfer protein by carboxylated derivatives. Evidence for 13–cis–retinoic acid as a potent activator of the protein's activity in plasma. Florentin E, et al. **Eur J Biochem** 1996 Sep 15;240(3):699–706

Renal expression of serum–type mannan–binding protein in rat. Morio H, et al. **Eur J Biochem** 1997 Feb 1;243(3):770–4

Serum M3/M21 in cervical cancer patients. Sliutz G, et al. **Eur J Cancer** 1997 May;33(6):973–5

Estimation of myocardial infarct size from plasma myoglobin or fatty acid–binding protein. Influence of renal function. Wodzig KW, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar;35(3):191–8

A simple, rapid immunometric assay for determination of functional and growth hormone–occupied growth hormone–binding protein in human serum. Fisker S, et al. **Eur J Clin Invest** 1996 Sep;26(9):779–85

Leptin levels are strongly correlated with those of GH–binding protein in prepubertal children. Bjarnason R, et al. **Eur J Endocrinol** 1997 Jul;137(1):68–73

Growth hormone binding protein and growth hormone availability in acromegalic patients treated with long–acting octreotide (Sandostatin–LAR). Fisker S, et al. **Eur J Endocrinol** 1997 Jan;136(1):61–6

High–affinity growth hormone binding protein, insulin–like growth factor I and insulin–like growth factor binding protein 3 in adults with growth hormone deficiency. Roelen CA, et al. **Eur J Endocrinol** 1996 Jul;135(1):82–6

Interferon alpha induces disorder of lipid metabolism by lowering postheparin lipases and cholesteryl ester transfer protein activities in patients with chronic hepatitis C. Shinohara E, et al. **Hepatology** 1997 Jun;25(6):1502–6

Insulin–like growth factor I, insulin–like growth factor binding proteins, and growth hormone binding protein in Spanish premature and full–term newborns. Barrios V, et al. **Horm Res** 1996;46(3):130–7

Effect of different serum concentrations of growth hormone–binding protein (GHBP) on the regulation of GH receptor/GHBP gene transcription in a human hepatoma cell line. Mullis PE, et al. **Horm Res** 1997;47(2):73–80

Growth hormone–binding proteins, IGF–I and IGF–binding proteins in children and adolescents with type 1 diabetes mellitus. Radetti G, et al. **Horm Res** 1997;47(3):110–5

Lipopolysaccharide binding proteins on polymorphonuclear leukocytes: comparison of adult and neonatal cells. Qing G, et al. **Infect Immun** 1996 Nov;64(11):4638–42

Lipoproteins and cholesterol ester transfer protein in obese women on a very low calorie diet [letter] Zahouani A, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):887

Plasma insulin–like growth factor–I and high affinity growth hormone–binding protein levels increase after two weeks of strenuous physical training. Roelen CA, et al. **Int J Sports Med** 1997 May;18(4):238–41

Platelet serotonin transporter in children and adolescents with obsessive–compulsive disorder or Tourette's syndrome. Sallee FR, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1647–56

Lipopolysaccharide–binding protein and bactericidal/permeability–increasing factor during hemodialysis: clinical determinants and role of different membranes. Sundaram S, et al. **J Am Soc Nephrol** 1997 Mar;8(3):463–70

Effect of marathon run on serum IGF–I and IGF–binding protein 1 and 3 levels. Koistinen H, et al. **J Appl Physiol** 1996 Mar;80(3):760–4

Changes in membrane and surface potential explain the opposite effects of low ionic strength on the two lysine transporters of human erythrocytes. Devés R, et al. **J Biol Chem** 1996 Dec 13;271(50):32034–9

Differential interaction of the human cholesteryl ester transfer protein with plasma high density lipoproteins (HDLs) from humans, control mice, and transgenic mice to human HDL apolipoproteins. Lack of lipid transfer inhibitory activity in transgenic mice expressing human apoA–I. Masson D, et al. **J Biol Chem** 1997 Sep 26; 272(39):24287–93

Human arterial proteoglycans increase the rate of proteolytic fusion of low density lipoprotein particles. Pentikäinen MO, et al. **J Biol Chem** 1997 Oct 3;272(40):25283–8

Interaction of the erythrocyte lactate transporter (monocarboxylate transporter 1) with an integral 70–kDa membrane glycoprotein of the immunoglobulin superfamily. Poole RC, et al. **J Biol Chem** 1997 Jun 6; 272(23):14624–8

Growth hormone–binding protein in normal and pathologic gestation: correlations with maternal diabetes and fetal growth. Barnard R, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1879–84

Growth hormone (GH)–binding protein in prepubertal short children born small for gestational age: effects of growth hormone treatment. Swedish Study Group for Growth Hormone Treatment. Boguszewski M, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1014–9

Abdominal fat determines growth hormone–binding protein levels in healthy nonobese adults. Fisker S, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):123–8

Decline of plasma growth hormone binding protein in old age. Maheshwari H, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):995–7

Transfer of dehydroepiandrosterone– and pregnenolone–fatty acid esters between human lipoproteins. Provost PR, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):182–7

Serum insulin–like growth factor I (IGF–I), IGF–binding protein–1 and –3, and the acid–labile subunit as serum markers of body composition during growth hormone (GH) therapy in adults with GH deficiency. Thorén M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):223–8

Reduced concentration of serum growth hormone (GH)–binding protein in children with chronic renal failure: correlation with GH insensitivity. The European Study Group for Nutritional Treatment of Chronic Renal Failure in Childhood. The German Study Group for Growth Hormone Treatment in Chronic Renal Failure. Tönshoff B, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1007–13

Heterogeneity of the human corticotropin–releasing factor–binding protein. Woods RJ, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1566–71

Plasma (1–>3)–beta–D–glucan assay and immunohistochemical staining of (1–>3)–beta–D–glucan in the fungal cell walls using a novel horseshoe crab protein (T–GBP) that specifically binds to (1–>3)–beta–D–glucan. Tamura H, et al. **J Clin Lab Anal** 1997;11(2):104–9

The serum growth hormone binding protein: pregnant with possibilities. Barnard R, et al. **J Endocrinol** 1997 Apr; 153(1):1–14 (151 ref.)

Concentration of free growth hormone–binding protein in the serum of mice is not regulated by growth hormone. Sotelo AI, et al. **J Endocrinol** 1997 May;153(2):319–25

Serum growth hormone–binding protein is decreased in prepubertal children with idiopathic short stature. Dávila N, et al. **J Endocrinol Invest** 1996 Jun;19(6):348–52

Elevated serum levels of 90K/MAC–2 BP predict unresponsiveness to alpha–interferon therapy in chronic HCV hepatitis patients. Artini M, et al. **J Hepatol** 1996 Aug;25(2):212–7

An ELISA for hCAP–18, the cathelicidin present in human neutrophils and plasma. Sørensen O, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):53–9

Impaired suppression of plasma free fatty acids and triglycerides by acute hyperglycaemia–induced hyperinsulinaemia and alterations in high density lipoproteins in essential hypertension. Ligtenberg JJ, et al. **J Intern Med** 1996 Oct;240(4):233–42

Allelic variation in the gene encoding the cholesteryl ester transfer protein is associated with variation in the plasma concentrations of cholesteryl ester transfer protein. McPherson R, et al. **J Lipid Res** 1996 Aug;37(8):1743–8

Replacing dietary palmitic acid with elaidic acid (t–C18:1 delta9) depresses HDL and increases CETP activity in cebus monkeys. Khosla P, et al. **J Nutr** 1997 Mar; 127(3):531S–536S

National Cooperative Growth Study substudy VI: the clinical utility of growth–hormone–binding protein, insulin–like growth factor I, and insulin–like growth factor–binding protein 3 measurements. Attie KM, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S56–60

Growth promoting peptides in diabetic and non–diabetic pregnancy: interactions with trophoblastic receptors and serum carrier proteins. Culler FL, et al. **J Pediatr Endocrinol Metab** 1996 Jan–Feb;9(1):21–9

Administration of long–term tamoxifen therapy modifies the plasma lipoprotein–lipid concentration and lipid transfer protein I activity in postmenopausal women with breast cancer. Wasan KM, et al. **J Pharm Sci** 1997 Jul;86(7):876–9

Insulin–like growth factors (IGFs) and IGF binding proteins, serum acid–labile subunit and growth hormone binding protein in nephrotic children. Haffner D, et al. **Kidney Int** 1997 Sep;52(3):802–10

Suppression of plasma cholesteryl ester transfer protein activity in acute hyperinsulinemia and effect of plasma nonesterified fatty acid. Arii K, et al. **Metabolism** 1997 Oct; 46(10):1166–70

Androgen regulation of growth hormone binding protein. Keenan BS, et al. **Metabolism** 1996 Dec;45(12):1521–6

Serum levels of the iron binding protein p97 are elevated in Alzheimer's disease. Kennard ML, et al. **Nat Med** 1996 Nov;2(11):1230–5

Insulin–like growth factor I, its binding proteins 1 and 3, and growth hormone–binding protein in children and adolescents with insulin–dependent diabetes mellitus: clinical implications. Muñoz MT, et al. **Pediatr Res** 1996 Jun;39(6):992–8

Growth hormone–binding proteins and insulin–like growth factor–binding proteins in protein–energy malnutrition, before and after nutritional rehabilitation. Zamboni G, et al. **Pediatr Res** 1996 Mar;39(3):410–4

Cord plasma corticotropin–releasing factor–binding protein (CRF–BP) in term and preterm labour. Petraglia F, et al. **Placenta** 1997 Mar–Apr;18(2–3):115–9

Human cysteine–rich intestinal protein: cDNA cloning and expression of recombinant protein and identification in human peripheral blood mononuclear cells. Khoo C, et al. **Protein Expr Purif** 1997 Apr;9(3):379–87

Lipopolysaccharide binding protein from normal human plasma purified with high efficiency. Nanbo A, et al. **Protein Expr Purif** 1997 Jun;10(1):55–60

Purification of lipopolysaccharide–binding protein from bovine serum. Bochsler PN, et al. **Vet Immunol Immunopathol** 1996 Jun 1;51(3–4):303–14

[Radioimmunologic methods for determining cortisol binding globulin–CBG in human serum] Głyda A, et al. **Ginekol Pol** 1996 Nov;67(11):545–7 (Eng. Abstr.) **(Pol)**

[Effect of enduracin on the activity of a cholesterol ester transfer protein in blood plasma of people with hypercholesteremia] Gorshkova IN, et al. **Biull Eksp Biol Med** 1996 Feb;121(2):185–7 **(Rus)**

CEREBROSPINAL FLUID

Cerebrospinal fluid concentrations of corticotropin-releasing hormone (CRH) and diazepam-binding inhibitor (DBI) during alcohol withdrawal and abstinence. Adinoff B, et al. **Neuropsychopharmacology** 1996 Sep;15(3):288–95

CHEMICAL SYNTHESIS

Synthesis and characterization of technetium-99m-labeled tropanes as dopamine transporter-imaging agents. Meegalla SK, et al. **J Med Chem** 1997 Jan 3;40(1):9–17

Solution synthesis of human midkine, a novel heparin-binding neurotrophic factor consisting of 121 amino acid residues with five disulphide bonds. Inui T, et al. **J Pept Sci** 1996 Jan-Feb;2(1):28–39

CHEMISTRY

Urea transporters in kidney and erythrocytes. Sands JM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F321–39 (163 ref.)

Molecular characterization of the Na-K-Cl cotransporter of bovine aortic endothelial cells. Yerby TR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C188–97

The utility of FK506-binding protein as a fusion partner in scintillation proximity assays: application to SH2 domains. Sonatore LM, et al. **Anal Biochem** 1996 Sep 5;240(2):289–97

Anti-idiotypic antibody identifies a consensus recognition site for phosphatidylserine common to protein kinase C and other cellular phosphatidylserine-binding proteins. Igarashi K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:536–9

Yeast homologue of nonspecific lipid-transfer protein (sterol carrier protein 2) may be a stress protein in peroxisomes. Kamiryo T, et al. **Ann N Y Acad Sci** 1996 Dec 27; 804:687–90

Identification of heparin-binding sites in midkine and their role in neurite-promotion. Asai T, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):66–70

Identification of a human cDNA homologue to the Drosophila translocation protein 1 (Dtrp1). Daimon M, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):100–4

Isolation, primary sequence determination, and disulfide bond structure of cyanovirin-N, an anti-HIV (human immunodeficiency virus) protein from the cyanobacterium Nostoc ellipsosporum. Gustafson KR, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):223–8

Myosin binding subunit of smooth muscle myosin phosphatase at the cell–cell adhesion sites in MDCK cells. Inagaki N, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):552–6

Molecular cloning of a rat 49-kDa TBP-interacting protein (TIP49) that is highly homologous to the bacterial RuvB. Kanemaki M, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):64–8

Analysis of sequence requirements for biological activity of cyanovirin-N, a potent HIV (human immunodeficiency virus)-inactivating protein. Mori T, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):218–22

Rat liver 4S-benzo[a]pyrene-binding protein is distinct from glycine N-methyltransferase. Ogawa H, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):300–4

Cloning and characterization of a pH-sensing regulatory factor that modulates transport activity of the human H+/peptide cotransporter, PEPT1. Saito H, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):577–82

Identification of a unique monocarboxylate transporter (MCT3) in retinal pigment epithelium. Yoon H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):90–4

Physical and kinetic characterization of recombinant human cholesteryl ester transfer protein. Connolly DT, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):39–47

Structure of a truncated human surfactant protein D is less effective in agglutinating bacteria than the native structure and fails to inhibit haemagglutination by influenza A virus. Eda S, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):393–9

The mitochondrial carnitine carrier protein: cDNA cloning, primary structure and comparison with other mitochondrial transport proteins. Indiveri C, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):713–9

Identification of a lysosomal protein causing lipid transfer, using a fluorescence assay designed to monitor membrane fusion between rat liver endosomes and lysosomes. Kuwana T, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):937–46

The MAL proteolipid is a component of the detergent-insoluble membrane subdomains of human T-lymphocytes. Millán J, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):247–52

Studies of the membrane topology of the rat erythrocyte H+/lactate cotransporter (MCT1). Poole RC, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):817–24

Folate binding protein: molecular characterization and transcript distribution in pig liver, kidney and jejunum. Van Hoozen CM, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):725–9

Asymmetry adjacent to the collagen-like domain in rat liver mannose-binding protein. Wallis R, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):391–400

Involvement of disulphide bonds in the renal sodium/phosphate co-transporter NaPi-2. Xiao Y, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):401–8

Purification and partial characterization of a fatty acid-binding protein from the yeast, Yarrowia lipolytica. Dell'Angelica EC, et al. **Biochem Mol Biol Int** 1996 Jun; 39(3):439–45

Properties of the regulatory subunit of cAMP-dependent protein kinase type II from human brain. Grozdova ID, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1159–66

Isolation and characterization of AFP-binding proteins from tumor and fetal human tissues. Kanevsky VYu, et al. **Biochem Mol Biol Int** 1997 May;41(6):1143–51

Structural and functional roles of the amino-terminal region and collagen-like domain of human serum mannan-binding protein. Ma Y, et al. **Biochem Mol Biol Int** 1996 Nov; 40(5):965–74

The refolding of hen egg white riboflavin binding protein. McClelland DA, et al. **Biochem Soc Trans** 1997 Feb; 25(1):94S

Comparison of the complement system protein complexes formed by C1q and MBL. Wong N, et al. **Biochem Soc Trans** 1997 Feb;25(1):41S

Coiled-coil structure of group A streptococcal M proteins. Different temperature stability of class A and C proteins by hydrophobic-nonhydrophobic amino acid substitutions at heptad positions a and d. Cedervall T, et al. **Biochemistry** 1997 Apr 22;36(16):4987–94

Conformations of primary amphipathic carrier peptides in membrane mimicking environments. Chaloin L, et al. **Biochemistry** 1997 Sep 16;36(37):11179–87

External cysteine residues in the serotonin transporter. Chen JG, et al. **Biochemistry** 1997 Feb 11;36(6):1479–86

Human cationic amino acid transporters hCAT-1, hCAT-2A, and hCAT-2B: three related carriers with distinct transport properties. Closs EI, et al. **Biochemistry** 1997 May 27;36(21):6462–8

Cysteine scanning mutagenesis at 40 of 76 positions in villin headpiece maps the F-actin binding site and structural features of the domain. Doering DS, et al. **Biochemistry** 1996 Oct 1;35(39):12677–85

Mutagenesis of the uncoupling protein of brown adipose tissue. Neutralization Of E190 largely abolishes pH control of nucleotide binding. Echtay KS, et al. **Biochemistry** 1997 Jul 8;36(27):8253–60

Thermodynamics of ligand binding to acyl-coenzyme A binding protein studied by titration calorimetry. Faergeman NJ, et al. **Biochemistry** 1996 Nov 12;35(45):14118–26

Identification of the histidyl residue obligatory for the catalytic activity of the human H+/peptide cotransporters PEPT1 and PEPT2. Fei YJ, et al. **Biochemistry** 1997 Jan 14;36(2):452–60

Time-resolved fluorescence of intestinal and liver fatty acid binding proteins: role of fatty acyl CoA and fatty acid. Frolov A, et al. **Biochemistry** 1997 Jan 21;36(3):505–17

Isoforms of rat liver fatty acid binding protein differ in structure and affinity for fatty acids and fatty acyl CoAs. Frolov A, et al. **Biochemistry** 1997 May 27;36(21):6545–55

Thermodynamic characterization of the reversible, two-state unfolding of maltose binding protein, a large two-domain protein. Ganesh C, et al. **Biochemistry** 1997 Apr 22; 36(16):5020–8

C repeats of teh streptococcal M1 protein achieve the human serum albumin binding ability by flanking regions which stabilize the coiled-coil conformation. Gubbe K, et al. **Biochemistry** 1997 Jul 1;36(26):8107–13

Membrane topology of the di- and tripeptide transport protein of Lactococcus lactis. Hagting A, et al. **Biochemistry** 1997 Jun 3;36(22):6777–85

Discrete backbone disorder in the nuclear magnetic resonance structure of apo intestinal fatty acid-binding protein: implications for the mechanism of ligand entry. Hodsdon ME, et al. **Biochemistry** 1997 Feb 11; 36(6):1450–60

The mannose-binding protein A region of glutamic acid185-alanine221 can functionally replace the surfactant protein A region of glutamic acid195-phenylalanine228 without loss of interaction with lipids and alveolar type II cells. Honma T, et al. **Biochemistry** 1997 Jun 10; 36(23):7176–84

Closed form of liganded glutamine-binding protein by rotational-echo double-resonance NMR. Klug CA, et al. **Biochemistry** 1997 Aug 5;36(31):9405–8

Role of phospholipids in the protein stability of an insect lipoprotein, lipophorin from Rhodnius prolixus. Maya-Monteiro C, et al. **Biochemistry** 1997 Sep 16; 36(37):11216–22

Structure of a selectin-like mutant of mannose-binding protein complexed with sialylated and sulfated Lewis(x) oligosaccharides. Ng KK, et al. **Biochemistry** 1997 Feb 4; 36(5):979–88

Difference in the binding mode of two mannose-binding proteins: demonstration of a selective minicluster effect. Quesenberry MS, et al. **Biochemistry** 1997 Mar 4; 36(9):2724–32

Molecular and macromolecular specificity of human plasma phospholipid transfer protein. Rao R, et al. **Biochemistry** 1997 Mar 25;36(12):3645–53

Fluorescence spectral changes during the folding of intestinal fatty acid binding protein. Ropson IJ, et al. **Biochemistry** 1997 Jul 15;36(28):8594–601

Immunosuppressor binding to the immunophilin FKBP59 affects the local structural dynamics of a surface beta-strand: time-resolved fluorescence study. Rouviere N, et al. **Biochemistry** 1997 Jun 17;36(24):7339–52

Peptide binding in OppA, the crystal structures of the periplasmic oligopeptide binding protein in the unliganded form and in complex with lysyllysine. Sleigh SH, et al. **Biochemistry** 1997 Aug 12;36(32):9747–58

Structures of the reduced and mercury-bound forms of MerP, the periplasmic protein from the bacterial mercury detoxification system. Steele RA, et al. **Biochemistry** 1997 Jun 10;36(23):6885–95

The sterol carrier protein-2 fatty acid binding site: an NMR, circular dichroic, and fluorescence spectroscopic determination. Stolowich NJ, et al. **Biochemistry** 1997 Feb 18;36(7):1719–29

Truncations of the C-terminus have different effects on the conformation and activity of phosphatidylinositol transfer protein. Voziyan PA, et al. **Biochemistry** 1996 Sep 24; 35(38):12526–31

Variant GPI structure in relation to membrane-associated functions of a murine folate receptor. Wang X, et al. **Biochemistry** 1996 Dec 17;35(50):16305–12

Crystal structure of a prolonged-acting insulin with albumin-binding properties. Whittingham JL, et al. **Biochemistry** 1997 Mar 11;36(10):2826–31

Carp cDNA sequence encoding a putative diazepam-binding inhibitor/endozepine/acyl-CoA-binding protein. Chang JL, et al. **Biochim Biophys Acta** 1996 Nov 14;1298(1):9–11

Cloning and functional characterization of a rat urea transporter: expression in the brain. Couriaud C, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):197–9

Modification of the N-terminal cysteine of plasma cholesteryl ester transfer protein selectively inhibits triglyceride transfer activity. Kotake H, et al. **Biochim Biophys Acta** 1997 Jul 12;1347(1):69–74

Mechanism of ligand-protein interaction in plant seed thiamine-binding proteins. Preliminary chemical identification of amino acid residues essential for thiamine binding to the buckwheat-seed protein. Rapala-Kozik M, et al. **Biochimie** 1996;78(2):77–84

Tc-99m-labeled tropanes as dopamine transporter imaging agents. Meegalla S, et al. **Bioconjug Chem** 1996 Jul-Aug; 7(4):421–9

Identification by affinity chromatography of boar sperm membrane-associated proteins bound to immobilized porcine zona pellucida. Mapping of the phosphorylethanolamine-binding region of spermadhesin AWN. Ensslin M, et al. **Biol Chem Hoppe Seyler** 1995 Dec; 376(12):733–8

Modeling the interaction between FK506 and FKBP12: a mechanism for formation of the calcineurin inhibitory complex. Ivery MT, et al. **Bioorg Med Chem** 1997 Feb; 5(2):217–32

Modulation of cyclosporin A/cyclophilin interactions by drug vehicles. Janowski B, et al. **Bioorg Med Chem** 1997 Jan;5(1):179–86

"Teflon-coated peptides": hexafluoroacetone trihydrate as a structure stabilizer for peptides. Rajan R, et al. **Biopolymers** 1997 Aug;42(2):125–8

Characterization of the folate receptor in human molar placenta. Holm J, et al. **Biosci Rep** 1996 Oct;16(5):379–89

Characterization of a sheep brain corticotropin releasing factor binding protein (Brain Research 709 (1996) 265–274) (BRES 11959). Behan DP, et al. **Brain Res** 1996 Sep 2; 732(1-2):267

Primary structure of a myohemerythrin-like cadmium-binding protein, isolated from a terrestrial annelid oligochaete. Nejmeddine A, et al. **C R Acad Sci III** 1997 Jun;320(6):459–68

Purification and characterization of a (1-->3)-beta-D-glucan-binding protein from horseshoe crab (Tachypleus tridentatus) amoebocytes. Tamura H, et al. **Carbohydr Res** 1996 Dec 13;295:103–16

Mycobacterium tuberculosis efpA encodes an efflux protein of the QacA transporter family. Doran JL, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):23–32

The diverse world of coenzyme A binding proteins. Engel C, et al. **Curr Opin Struct Biol** 1996 Dec;6(6):790–7 (31 ref.)

Calcineurin-immunosuppressor complexes. Stoddard BL, et al. **Curr Opin Struct Biol** 1996 Dec;6(6):770–5 (39 ref.)

Cloning and characterization of an uncoupling protein homolog: a potential molecular mediator of human thermogenesis. Gimeno RE, et al. **Diabetes** 1997 May; 46(5):900–6

Structure of the chromatin binding (chromo) domain from mouse modifier protein 1. Ball LJ, et al. **EMBO J** 1997 May 1;16(9):2473–81

Crystal structure of chicken riboflavin-binding protein. Monaco HL. **EMBO J** 1997 Apr 1;16(7):1475–83

Surface plasmon resonance analysis of gp17, a natural CD4 ligand from human seminal plasma inhibiting human immunodeficiency virus type-1 gp120-mediated syncytium formation. Autiero M, et al. **Eur J Biochem** 1997 Apr 1; 245(1):208–13

A second isoform of 3-ketoacyl-CoA thiolase found in Caenorhabditis elegans, which is similar to sterol carrier protein x but lacks the sequence of sterol carrier protein 2. Bun-Ya M, et al. **Eur J Biochem** 1997 Apr 15; 245(2):252–9

Evidence for glycosylation of the juvenile-hormone-binding protein from Galleria mellonella hemolymph. Duk M, et al. **Eur J Biochem** 1996 Dec 15;242(3):741–6

Dissection of the domain architecture of the alpha2macroglobulin-receptor-associated protein. Ellgaard L, et al. **Eur J Biochem** 1997 Mar 1;244(2):544–51

Animal lectins. Gabius HJ. **Eur J Biochem** 1997 Feb 1; 243(3):543–76 (500 ref.)

An internal FK506-binding domain is the catalytic core of the prolyl isomerase activity associated with the Bacillus

subtilis trigger factor. Göthel SF, et al. **Eur J Biochem** 1997 Feb 15;244(1):59–65

The structure of the keratan sulphate chains attached to fibromodulin isolated from articular cartilage. Lauder RM, et al. **Eur J Biochem** 1996 Dec 1;242(2):402–9

Primary structure of stallion seminal plasma protein HSP–7, a zona–pellucida–binding protein of the spermadhesin family. Reinert M, et al. **Eur J Biochem** 1996 Dec 15; 242(3):636–40

A novel regulatory function of proteolytically cleaved VEGF–2 for vascular endothelial and smooth muscle cells. Hu JS, et al. **FASEB J** 1997 May;11(6):498–504

Yeast mitochondrial F1F0–ATPase: the novel subunit e is identical to Tim11. Arnold I, et al. **FEBS Lett** 1997 Jul 14;411(2–3):195–200

Remarkably slow folding of a small protein. Aronsson G, et al. **FEBS Lett** 1997 Jul 14;411(2–3):359–64

Characterisation of the meningococcal transferrin binding protein complex by photon correlation spectroscopy. Boulton IC, et al. **FEBS Lett** 1997 Sep 8;414(2):409–13

Isolation and characterization of heparin– and phosphorylcholine–binding proteins of boar and stallion seminal plasma. Primary structure of porcine pB1. Calvete JJ, et al. **FEBS Lett** 1997 Apr 28;407(2):201–6

Sequence and expression of a novel member (LTBP–4) of the family of latent transforming growth factor–beta binding proteins. Giltay R, et al. **FEBS Lett** 1997 Jul 14; 411(2–3):164–8

Identification of potential ferric binding residues in the iron–binding protein of pathogenic Neisseria meningitidis through structure–based multiple sequence alignments. Gorinsky B, et al. **FEBS Lett** 1997 Aug 18;413(2):364–70

Two–dimensional crystals of the Kdp–ATPase of Escherichia coli. Iwane AH, et al. **FEBS Lett** 1996 Nov 4;396(2–3):172–6

The membrane–bound rat serotonin transporter, SERT1, is an oligomeric protein. Jess U, et al. **FEBS Lett** 1996 Sep 23;394(1):44–6

NMR structural characterization of the CDK inhibitor p19INK4d. Kalus W, et al. **FEBS Lett** 1997 Jan 20; 401(2–3):127–32

A nuclear RNA–binding cyclophilin in human T cells. Mi H, et al. **FEBS Lett** 1996 Dec 2;398(2–3):201–5

SH3 domain–dependent interactions of endophilin with amphiphysin. Micheva KD, et al. **FEBS Lett** 1997 Sep 8; 414(2):308–12

Leptin receptor (OB–R) oligomerizes with itself but not with its closely related cytokine signal transducer gp130. Nakashima K, et al. **FEBS Lett** 1997 Feb 10;403(1):79–82

Identification of the histidine residues involved in substrate recognition by a rat H+/peptide cotransporter, PEPT1. Terada T, et al. **FEBS Lett** 1996 Sep 30;394(2):196–200

Primary structure of a putative serine protease specific for IGF–binding proteins. Zumbrunn J, et al. **FEBS Lett** 1996 Dec 2;398(2–3):187–92

Homology modelling of an antimicrobial protein, Ace–AMP1, from lipid transfer protein structures. Gomar J, et al. **Fold Des** 1997;2(3):183–92

The oligopeptide transporter (Pept–1) in human intestine: biology and function. Adibi SA. **Gastroenterology** 1997 Jul; 113(1):332–40 (55 ref.)

Organization, structure and alternate splicing of the murine RFC–1 gene encoding a folate transporter. Tolner B, et al. **Gene** 1997 Apr 11;189(1):1–7

Structural comparison of a portion of the rat and mouse growth hormone receptor/binding protein genes. Zhou Y, et al. **Gene** 1996 Oct 24;177(1–2):257–9

Difference in binding–site architecture of the serum–type and liver–type mannose–binding proteins. Lee RT, et al. **Glycoconj J** 1997 Apr;14(3):357–63

Characterization of the diversity and the transferrin–binding domain of gonococcal transferrin–binding protein 2. Cornelissen CN, et al. **Infect Immun** 1997 Feb;65(2):822–8

Identification, characterization, and immunogenicity of the lactoferrin–binding protein from Helicobacter pylori. Dhaenens L, et al. **Infect Immun** 1997 Feb;65(2):514–8

Binding proteins from the antennae of Bombyx mori. Krieger J, et al. **Insect Biochem Mol Biol** 1996 Mar;26(3):297–307

Cloning and IgE binding of a recombinant allergen from the mite Blomia tropicalis, homologous with fatty acid–binding proteins. Caraballo L, et al. **Int Arch Allergy Immunol** 1997 Apr;112(4):341–7

Quaternary structure of a carrier protein influences antigenicity and immunogenicity of an inserted T cell determinant. Janssen R, et al. **Int Immunol** 1996 Jun; 8(6):829–36

Gastrin and gastrin receptor antagonists bind to both N– and C–terminal halves of the 78 kDa gastrin–binding protein. Murphy VJ, et al. **Int J Biochem Cell Biol** 1996 Nov; 28(11):1233–40

A lymphocyte cell surface heat shock protein homologous to the endoplasmic reticulum chaperone, immunoglobulin heavy chain binding protein BIP. Berger CL, et al. **Int J Cancer** 1997 Jun 11;71(6):1077–85

A topological model for the general aromatic amino acid permease, AroP, of Escherichia coli. Cosgriff AJ, et al. **J Bacteriol** 1997 May;179(10):3317–23

Substrate recognition domains as revealed by active hybrids between the D–arabinitol and ribitol transporters from Klebsiella pneumoniae. Heuel H, et al. **J Bacteriol** 1997 Oct;179(19):6014–9

Mutations affecting substrate specificity of the Bacillus subtilis multidrug transporter Bmr. Klyachko KA, et al. **J Bacteriol** 1997 Apr;179(7):2189–93

Regions of Escherichia coli TonB and FepA proteins essential for in vivo physical interactions. Larsen RA, et al. **J Bacteriol** 1997 May;179(10):3213–21

Tachycitin, a small granular component in horseshoe crab hemocytes, is an antimicrobial protein with chitin–binding activity. Kawabata S, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1253–60

Isolation and characterization of GBP28, a novel gelatin–binding protein purified from human plasma. Nakano Y, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):803–12

Rat liver fatty acid–binding protein: identification of a molecular species having a mixed disulfide with cysteine at cysteine–69 and enhanced protease susceptibility. Sato T, et al. **J Biochem (Tokyo)** 1996 Nov;120(5):908–14

Biochemical characterization of recombinant fusions of lipopolysaccharide binding protein and bactericidal/permeability–increasing protein. Implications in biological activity. Abrahamson SL, et al. **J Biol Chem** 1997 Jan 24;272(4):2149–55

Membrane potential–generating malate (MleP) and citrate (CitP) transporters of lactic acid bacteria are homologous proteins. Substrate specificity of the 2–hydroxycarboxylate transporter family. Bandell M, et al. **J Biol Chem** 1997 Jul 18;272(29):18140–6

The COOH–terminal peptide binding domain is essential for self–association of the molecular chaperone HSC70. Benaroudj N, et al. **J Biol Chem** 1997 Mar 28; 272(13):8744–51

Tyrosine 140 of the gamma–aminobutyric acid transporter GAT–1 plays a critical role in neurotransmitter recognition. Bismuth Y, et al. **J Biol Chem** 1997 Jun 27; 272(26):16096–102

A mutational study of the peptide–binding domain of Hsc70 guided by secondary structure prediction. Boice JA, et al. **J Biol Chem** 1997 Oct 3;272(40):24825–31

Expression of the 90K immunostimulator gene is controlled by a promoter with unique features. Brakebusch C, et al. **J Biol Chem** 1997 Feb 7;272(6):3674–82

Sequence of the hexameric juvenile hormone–binding protein from the hemolymph of Locusta migratoria. Braun RP, et al. **J Biol Chem** 1996 Dec 6;271(49):31756–62

Analysis of the transmembrane topology and membrane assembly of the GAT–1 gamma–aminobutyric acid transporter. Clark JA. **J Biol Chem** 1997 Jun 6; 272(23):14695–704

Characterization of PKIgamma, a novel isoform of the protein kinase inhibitor of cAMP–dependent protein kinase. Collins SP, et al. **J Biol Chem** 1997 Jul 18;272(29):18169–78

Ligand–independent dimerization of the extracellular domain of the leptin receptor and determination of the stoichiometry of leptin binding. Devos R, et al. **J Biol Chem** 1997 Jul 18;272(29):18304–10

Characterization of the FET4 protein of yeast. Evidence for a direct role in the transport of iron. Dix D, et al. **J Biol Chem** 1997 May 2;272(18):11770–7

Intrinsic specificity of the reactive site loop of alpha1–antitrypsin, alpha1–antichymotrypsin, antithrombin III, and protease nexin I. Djie MZ, et al. **J Biol Chem** 1997 Jun 27;272(26):16268–73

Functional analysis of mutated purine–cytosine permease from Saccharomyces cerevisiae. A possible role of the hydrophilic segment 371–377 in the active carrier conformation. Ferreira T, et al. **J Biol Chem** 1997 Apr 11;272(15):9697–702

AM67, a secretory component of the guinea pig sperm acrosomal matrix, is related to mouse sperm protein sp56 and the complement component 4–binding proteins. Foster JA, et al. **J Biol Chem** 1997 May 9;272(19):12714–22

Sterol carrier protein–2, a new fatty acyl coenzyme A–binding protein. Frolov A, et al. **J Biol Chem** 1996 Dec 13;271(50):31878–84

Identification and characterization of an eight–cysteine repeat of the latent transforming growth factor–beta binding protein–1 that mediates bonding to the latent transforming growth factor–beta1. Gleizes PE, et al. **J Biol Chem** 1996 Nov 22;271(47):29891–6

Primary structure and functional expression of the apical organic cation transporter from kidney epithelial LLC–PK1 cells. Gründemann D, et al. **J Biol Chem** 1997 Apr 18;272(16):10408–13

Human IgGFc binding protein (FcgammaBP) in colonic epithelial cells exhibits mucin–like structure. Harada N, et al. **J Biol Chem** 1997 Jun 13;272(24):15232–41

Biochemical characterization of the Wilson disease protein and functional expression in the yeast Saccharomyces cerevisiae. Hung IH, et al. **J Biol Chem** 1997 Aug 22; 272(34):21461–6

Identification by site–directed mutagenesis of three arginines in uncoupling protein that are essential for nucleotide binding and inhibition. Modrianský M, et al. **J Biol Chem** 1997 Oct 3;272(40):24759–62

Two oligomeric forms of plasma ficolin have differential lectin activity. Ohashi T, et al. **J Biol Chem** 1997 May 30;272(22):14220–6

Analysis of the transmembrane topology of the glycine transporter GLYT1. Olivares L, et al. **J Biol Chem** 1997 Jan 10;272(2):1211–7

Biochemical and crystallographic analyses of a portal mutant of the adipocyte lipid–binding protein. Ory J, et al. **J Biol Chem** 1997 Apr 11;272(15):9793–801

A plasma membrane sucrose–binding protein that mediates sucrose uptake shares structural and sequence similarity with seed storage proteins but remains functionally distinct. Overvoorde PJ, et al. **J Biol Chem** 1997 Jun 20; 272(25):15898–904

Hydrogen/deuterium exchange kinetics of apolipophorin–III in lipid–free and phospholipid–bound states. An analysis by Fourier transform infrared spectroscopy. Raussens V, et al. **J Biol Chem** 1996 Sep 20;271(38):23089–95

Rapamycin inhibits protein kinase C activity and stimulates Na+ transport in A6 cells. Rokaw MD, et al. **J Biol Chem** 1996 Dec 13;271(50):32468–73

Evidence that cholesteryl ester transfer protein–mediated reductions in reconstituted high density lipoprotein size involve particle fusion. Rye KA, et al. **J Biol Chem** 1997 Feb 14;272(7):3953–60

MADD, a novel death domain protein that interacts with the type 1 tumor necrosis factor receptor and activates mitogen–activated protein kinase. Schievella AR, et al. **J Biol Chem** 1997 May 2;272(18):12069–75

The reversible antiport–uniport conversion of the phosphate carrier from yeast mitochondria depends on the presence of a single cysteine. Schroers A, et al. **J Biol Chem** 1997 Apr 18;272(16):10558–64

Transforming growth factor–beta1 inhibits type I inositol 1,4,5–trisphosphate receptor expression and enhances its phosphorylation in mesangial cells. Sharma K, et al. **J Biol Chem** 1997 Jun 6;272(23):14617–23

Protein phosphatase 5 is a major component of glucocorticoid receptor.hsp90 complexes with properties of an FK506–binding immunophilin. Silverstein AM, et al. **J Biol Chem** 1997 Jun 27;272(26):16224–30

Characterization of a novel iodocyanopindolol and SM–11044 binding protein, which may mediate relaxation of depolarized rat colon tonus. Sugasawa T, et al. **J Biol Chem** 1997 Aug 22;272(34):21244–52

The crystal structure of the liver fatty acid–binding protein. A complex with two bound oleates. Thompson J, et al. **J Biol Chem** 1997 Mar 14;272(11):7140–50

Chaperone SecB from Escherichia coli mediates kinetic partitioning via a dynamic equilibrium with its ligands. Topping TB, et al. **J Biol Chem** 1997 Aug 1;272(31):19314–8

Membrane topology of the sodium ion–dependent citrate carrier of Klebsiella pneumoniae. Evidence for a new structural class of secondary transporters. van Geest M, et al. **J Biol Chem** 1996 Oct 11;271(41):25582–9

GS15, a 15–kilodalton Golgi soluble N–ethylmaleimide–sensitive factor attachment protein receptor (SNARE) homologous to rbet1. Xu Y, et al. **J Biol Chem** 1997 Aug 8;272(32):20162–6

Molecular characterization of p62, a mitotic apparatus protein required for mitotic progression. Ye X, et al. **J Biol Chem** 1997 Feb 7;272(6):3606–14

Negative dominance studies demonstrate the oligomeric structure of EmrE, a multidrug antiporter from Escherichia coli. Yerushalmi H, et al. **J Biol Chem** 1996 Dec 6; 271(49):31044–8

Automated probabilistic method for assigning backbone resonances of (13C,15N)–labeled proteins. Lukin JA, et al. **J Biomol NMR** 1997 Feb;9(2):151–66

1H, 13C, and 15N NMR backbone assignments and chemical–shift–derived secondary structure of glutamine–binding protein of Escherichia coli. Yu J, et al. **J Biomol NMR** 1997 Feb;9(2):167–80

Solution structure of human intestinal fatty acid binding protein: implications for ligand entry and exit. Zhang F, et al. **J Biomol NMR** 1997 Apr;9(3):213–28

Drosophila kelch is an oligomeric ring canal actin organizer. Robinson DN, et al. **J Cell Biol** 1997 Aug 25;138(4):799–810

Membrane topology of the high–affinity L–glutamate transporter (GLAST–1) of the central nervous system. Wahle S, et al. **J Cell Biol** 1996 Dec;135(6 Pt 2):1867–77

A family of glycoproteins (GP55), which inhibit neurite outgrowth, are members of the Ig superfamily and are related to OBCAM, neurotrimin, LAMP and CEPU–1. Wilson DJ, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):3129–38

Molecular cloning and characterization of the vasopressin–regulated urea transporter of rat kidney collecting ducts. Shayakul C, et al. **J Clin Invest** 1996 Dec 1;98(11):2580–7

Molecular modeling study of structural requirements for the oligopeptide transporter. Li J, et al. **J Drug Target** 1996; 4(1):9–17

Characterization of two ELISAs for NGAL, a newly described lipocalin in human neutrophils. Kjeldsen L, et al. **J Immunol Methods** 1996 Nov 13;198(2):155–64

A novel peptide–IgG conjugate, CAP18(106–138)–IgG, that binds and neutralizes endotoxin and kills gram–negative bacteria. Fletcher MA, et al. **J Infect Dis** 1997 Mar; 175(3):621–32

Identification of the mouse calcium–binding proteins, MRP 8 and MRP 14, in Schistosoma mansoni–induced granulomas: biochemical and functional characterization. Yang TH, et al. **J Leukoc Biol** 1997 Mar;61(3):258–66

Effect of phospholipids on the structure of Triatoma infestans lipophorin studied by fluorescence methods. Rimoldi OJ, et al. **J Lipid Res** 1996 Oct;37(10):2125–35

Structure–function relationships of human cholesteryl ester transfer protein: analysis using monoclonal antibodies. Roy P, et al. **J Lipid Res** 1996 Jan;37(1):22–34

Probing the structural role of an alpha beta loop of maltose–binding protein by mutagenesis: heat–shock

induction by loop variants of the maltose-binding protein that form periplasmic inclusion bodies. Betton JM, et al. **J Mol Biol** 1996 Sep 20;262(2):140–50

Crystal structure of cytoplasmic Escherichia coli peptidyl-prolyl isomerase: evidence for decreased mobility of loops upon complexation. Edwards KJ, et al. **J Mol Biol** 1997 Aug 15;271(2):258–65

The NMR solution structure of intestinal fatty acid-binding protein complexed with palmitate: application of a novel distance geometry algorithm. Hodsdon ME, et al. **J Mol Biol** 1996 Dec 6;264(3):585–602

The crystal structure of glutamine-binding protein from Escherichia coli. Hsiao CD, et al. **J Mol Biol** 1996 Sep 20;262(2):225–42 (49 ref.)

Structure of TcpG, the DsbA protein folding catalyst from Vibrio cholerae. Hu SH, et al. **J Mol Biol** 1997 Apr 25; 268(1):137–46

Solution structure of the albumin-binding GA module: a versatile bacterial protein domain. Johansson MU, et al. **J Mol Biol** 1997 Mar 14;266(5):859–65

Multiple cycles of global unfolding of GroEL-bound cyclophilin A evidenced by NMR. Nieba-Axmann SE, et al. **J Mol Biol** 1997 Sep 5;271(5):803–18

The NMR solution conformation of unligated human cyclophilin A. Ottiger M, et al. **J Mol Biol** 1997 Sep 12; 272(1):64–81

Variable structures of Fis-DNA complexes determined by flanking DNA-protein contacts. Pan CQ, et al. **J Mol Biol** 1996 Dec 13;264(4):675–95

Crystal structures and solution conformations of a dominant-negative mutant of Escherichia coli maltose-binding protein. Shilton BH, et al. **J Mol Biol** 1996 Nov 29;264(2):364–76

Conformational changes of three periplasmic receptors for bacterial chemotaxis and transport: the maltose-, glucose/galactose- and ribose-binding proteins. Shilton BH, et al. **J Mol Biol** 1996 Nov 29;264(2):350–63

A mutation in the human cyclin-dependent kinase interacting protein, CksHs2, interferes with cyclin-dependent kinase binding and biological function, but preserves protein structure and assembly. Watson MH, et al. **J Mol Biol** 1996 Sep 6;261(5):646–57

Modular structure of the trigger factor required for high activity in protein folding. Zarnt T, et al. **J Mol Biol** 1997 Sep 5;271(5):827–37

Limits of titin extension in single cardiac myofibrils. Linke WA, et al. **J Muscle Res Cell Motil** 1996 Aug;17(4):425–38

Molecular heterogeneity of neurotransporters: implications for neurodegeneration. Lesch KP, et al. **J Neural Transm Suppl** 1997;49:155–67 (33 ref.)

Characterization of a novel platelet-derived growth factor-associated protein. Fischer WH, et al. **J Neurochem** 1996 May;66(5):2213–6

Definition of a sequence unique in beta II spectrin required for its axon-specific interaction with fodaxin (A60). Hayes NV, et al. **J Neurochem** 1997 Apr;68(4):1686–95

Molecular cloning and characterization of an L-epinephrine transporter from sympathetic ganglia of the bullfrog, Rana catesbiana. Apparsundaram S, et al. **J Neurosci** 1997 Apr 15;17(8):2691–702

Solution structure of synthetic peptide inhibitor and substrate of cAMP-dependent protein kinase. A study by 2D H NMR and molecular dynamics. Padilla A, et al. **J Pept Res** 1997 Mar;49(3):210–20

Molecular determinants of recognition for the intestinal peptide carrier. Swaan PW, et al. **J Pharm Sci** 1997 May; 86(5):596–602

Modeling of the pH dependence of the binding of WIN 35,428 to the dopamine transporter in rat striatal membranes: is the bioactive form positively charged or neutral? Xu C, et al. **J Pharmacol Exp Ther** 1996 Sep; 278(3):1340–8

Stability and folding of a mutant ribose-binding protein of Escherichia coli. Kim JS, et al. **J Protein Chem** 1996 Nov; 15(8):731–6

Crystallization and preliminary X-ray diffraction analysis of nuclear transport factor 2. Kent HM, et al. **J Struct Biol** 1996 Mar-Apr;116(2):326–9

The electroneutral Na(+)-(K+)-Cl- cotransport family. Hebert SC, et al. **Kidney Int** 1996 Jun;49(6):1638–41 (6 ref.)

Structure, regulation and physiological roles of urea transporters. Hediger MA, et al. **Kidney Int** 1996 Jun; 49(6):1615–23 (48 ref.)

Chemiluminescent analysis of Borrelia burgdorferi penicillin-binding proteins using ampicillin conjugated to digoxigenin. Norgard MV, et al. **Microb Pathog** 1995 Oct; 19(4):257–72

Conservation and antigenic cross-reactivity of the transferrin-binding proteins of Haemophilus influenzae, Actinobacillus pleuropneumoniae and Neisseria meningitidis. Holland J, et al. **Microbiology** 1996 Dec;142 (Pt 12):3505–13

Domains of alpha-SNAP required for the stimulation of exocytosis and for N-ethylmalemide-sensitive fusion protein (NSF) binding and activation. Barnard RJ, et al. **Mol Biol Cell** 1996 May;7(5):693–701

Amino- and carboxy-terminal domains of the yeast Rab escort protein are both required for binding of Ypt small G proteins. Bauer BE, et al. **Mol Biol Cell** 1996 Oct; 7(10):1521–33

Binding site polarity and ligand affinity of homologous fatty acid-binding proteins from animals with different body temperatures. Londraville RL, et al. **Mol Cell Biochem** 1996 Jun 7;159(1):39–45

Mutational analysis of the hsp70-interacting protein Hip. Prapapanich V, et al. **Mol Cell Biol** 1996 Nov;16(11):6200–7

The p55 subunit of Drosophila chromatin assembly factor 1 is homologous to a histone deacetylase-associated protein. Tyler JK, et al. **Mol Cell Biol** 1996 Nov; 16(11):6149–59

Deletions in the extracellular domain of rat trkA lead to an altered differentiative phenotype in neurotrophin responsive cells. MacDonald JI, et al. **Mol Cell Neurosci** 1996 May;7(5):371–90

Location of NRAMP1 molecule on the plasma membrane and its association with microtubules. Kishi F, et al. **Mol Immunol** 1996 Nov;33(16):1241–6

Conserved amino acids in the N- and C-terminal domains of integral membrane transporter FhuB define sites important for intra- and intermolecular interactions. Böhm B, et al. **Mol Microbiol** 1996 Apr;20(1):223–32

Regulation of anaerobic citrate metabolism in Klebsiella pneumoniae. Bott M, et al. **Mol Microbiol** 1995 Nov; 18(3):533–46

The penicillin sensory transducer, BlaR, involved in the inducibility of beta-lactamase synthesis in Bacillus licheniformis is embedded in the plasma membrane via a four-alpha-helix bundle. Hardt K, et al. **Mol Microbiol** 1997 Mar;23(5):935–44

Molecular characterization of hybrid Tbp2 proteins from Neisseria meningitidis. Legrain M, et al. **Mol Microbiol** 1996 Jan;19(1):159–69

Plant sucrose:H+ symporters are homologous to the melibiose permease of Escherichia coli [letter] Naderi S, et al. **Mol Microbiol** 1996 Oct;22(2):390–1

Atomic structure and specificity of bacterial periplasmic receptors for active transport and chemotaxis: variation of common themes. Quiocho FA, et al. **Mol Microbiol** 1996 Apr;20(1):17–25 (40 ref.)

Sequence and characterization of the sperm protein Sp17 from the baboon. Adoyo PA, et al. **Mol Reprod Dev** 1997 May;47(1):66–71

Fault lines in the HIV core? [editorial] **Nat Struct Biol** 1997 Feb;4(2):85–6

Picture story. Stuck on p53. Felsenfeld AL. **Nat Struct Biol** 1996 Dec;3(12):990

The repeating segments of the F-actin cross-linking gelation factor (ABP-120) have an immunoglobulin-like fold. Fucini P, et al. **Nat Struct Biol** 1997 Mar;4(3):223–30

Crystal structure of the molybdate binding protein ModA [letter] Hu Y, et al. **Nat Struct Biol** 1997 Sep;4(9):703–7

NMR structure of the 35-residue villin headpiece subdomain [letter] McKnight CJ, et al. **Nat Struct Biol** 1997 Mar; 4(3):180–4

Structure of translation factor eIF4E bound to m7GDP and interaction with 4E-binding protein. Matsuo H, et al. **Nat Struct Biol** 1997 Sep;4(9):717–24

Structure of coagulation factors IX/X-binding protein, a heterodimer of C-type lectin domains [letter] Mizuno H, et al. **Nat Struct Biol** 1997 Jun;4(6):438–41

The role of water in sequence-independent ligand binding by an oligopeptide transporter protein [letter] Tame JR, et al. **Nat Struct Biol** 1996 Dec;3(12):998–1001

A low energy short hydrogen bond in very high resolution structures of protein receptor---phosphate complexes [letter] Wang Z, et al. **Nat Struct Biol** 1997 Jul;4(7):519–22

Discrete structural domains and cell-specific expression determine functional selectivity of the dopamine and norepinephrine transporters. Buck KJ, et al. **NIDA Res Monogr** 1996;161:154–75 (30 ref.)

Changes with age in the structure of fibromodulin in human articular cartilage. Roughley PJ, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):153–61

Isolation and partial characterization of a fatty-acid-binding protein from Ascaris suum reproductive tissue. Timanova AM, et al. **Parasitol Res** 1997;83(5):518–21

Sequence alignments of the H(+)-dependent oligopeptide transporter family PTR: inferences on structure and function of the intestinal PET1 transporter. Graul RC, et al. **Pharm Res** 1997 Apr;14(4):388–400

Cloning of a cDNA encoding a plasma membrane-associated, uronide binding phosphoprotein with physical properties similar to viral movement proteins. Reymond P, et al. **Plant Cell** 1996 Dec;8(12):2265–76

Isolation, characterization and molecular cloning of the mannose-binding lectins from leaves and roots of garlic (Allium sativum L.). Smeets K, et al. **Plant Mol Biol** 1997 Jan;33(2):223–34

Structure-function relationship of monocot mannose-binding lectins. Barre A, et al. **Plant Physiol** 1996 Dec; 112(4):1531–40

RGS-r, a retinal specific RGS protein, binds an intermediate conformation of transducin and enhances recycling. Chen CK, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12885–9

Diffusion control in an elementary protein folding reaction. Jacob M, et al. **Proc Natl Acad Sci U S A** 1997 May 27; 94(11):5622–7

A heparin-binding synthetic peptide of heparin/heparan sulfate-interacting protein modulates blood coagulation activities. Liu S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1739–44

The solution structure of the N-terminal domain of alpha2-macroglobulin receptor-associated protein. Nielsen PR, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8; 94(14):7521–5

Monitoring protein-protein interactions in intact eukaryotic cells by beta-galactosidase complementation. Rossi F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8405–10

Chaperone activity and structure of monomeric polypeptide binding domains of GroEL [see comments] Zahn R, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15024–9. Comment in: Proc Natl Acad Sci U S A 1997 Jan 7;94(1):7–8.

Characterisation of the rat acid-labile subunit gene. Delhanty PJ, et al. **Prog Growth Factor Res** 1995;6(2–4):141–9

Biochemical and mitogenic properties of the heparin-binding growth factor HARP. Laaroubi K, et al. **Prog Growth Factor Res** 1995;6(1):25–34 (49 ref.)

FK506-binding protein mutational analysis: defining the active-site residue contributions to catalysis and the stability of ligand complexes. DeCenzo MT, et al. **Protein Eng** 1996 Feb;9(2):173–80

Spectroscopic properties of an engineered maltose binding protein. Gilardi G, et al. **Protein Eng** 1997 May; 10(5):479–86

Engineering trypsin-sensitive sites in a membrane transport protein. Lee MH, et al. **Protein Eng** 1997 Jun;10(6):715–23

Probing the structure of the ligand binding cavity of lipocalins by fluorescence spectroscopy. Patel RC, et al. **Protein Eng** 1997 Jun;10(6):621–5

Maltodextrin-binding protein hybrids carrying epitopes from the preS2 region of hepatitis B virus: expression, antibody-binding and preliminary crystallographic studies. Vulliez-le Normand B, et al. **Protein Eng** 1997 Feb; 10(2):175–80

Structural characterization of the tumor suppressor p16, an ankyrin-like repeat protein. Boice JA, et al. **Protein Sci** 1996 Sep;5(9):1776–84

Conformation and molecular topography of the N-terminal segment of surfactant protein B in structure-promoting environments. Gordon LM, et al. **Protein Sci** 1996 Aug; 5(8):1662–75

Intestinal fatty acid binding protein: a specific residue in one turn appears to stabilize the native structure and be responsible for slow refolding. Kim K, et al. **Protein Sci** 1997 Feb;6(2):364–72

Refined structure of villin 14T and a detailed comparison with other actin-severing domains. Markus MA, et al. **Protein Sci** 1997 Jun;6(6):1197–209

Thermodynamics of maltose binding protein unfolding. Novokhatny V, et al. **Protein Sci** 1997 Jan;6(1):141–6

Template-based docking of a prolactin receptor proline-rich motif octapeptide to FKBP12: implications for cytokine receptor signaling. Soman KV, et al. **Protein Sci** 1997 May; 6(5):999–1008

The 1.8-A X-ray structure of the Escherichia coli PotD protein complexed with spermidine and the mechanism of polyamine binding. Sugiyama S, et al. **Protein Sci** 1996 Oct; 5(10):1984–90

Residues in the alpha helix 7 of the bacterial maltose binding protein which are important in interactions with the Mal FGK2 complex. Szmelcman S, et al. **Protein Sci** 1997 Mar; 6(3):628–36

Probing the tertiary structure of proteins by limited proteolysis and mass spectrometry: the case of Minibody. Zappacosta F, et al. **Protein Sci** 1996 May;5(5):802–13

Crystallization and preliminary crystallographic analysis of the N-terminal actin binding domain of human fimbrin. Goldsmith SC, et al. **Proteins** 1997 Jul;28(3):452–3

A new method for modeling large-scale rearrangements of protein domains. Maiorov V, et al. **Proteins** 1997 Mar; 27(3):410–24

Mean field analysis of FKBP12 complexes with FK506 and rapamycin: implications for a role of crystallographic water molecules in molecular recognition and specificity. Rejto PA, et al. **Proteins** 1997 Jul;28(3):313–24

Crystal structure of a recombinant form of the maltodextrin-binding protein carrying an inserted sequence of a B-cell epitope from the preS2 region of hepatitis B virus. Saul FA, et al. **Proteins** 1997 Jan;27(1):1–8

Exploring the energy landscapes of molecular recognition by a genetic algorithm: analysis of the requirements for robust docking of HIV-1 protease and FKBP-12 complexes. Verkhivker GM, et al. **Proteins** 1996 Jul; 25(3):342–53

Full-length and N-terminally truncated chicken intestinal diazepam-binding inhibitor. Purification, structural characterization and influence on insulin release. Chen ZW, et al. **Regul Pept** 1997 Mar 26;69(2):63–8

Structure of the p53 tumor suppressor bound to the ankyrin and SH3 domains of 53BP2 [see comments] Gorina S, et al. **Science** 1996 Nov 8;274(5289):1001–5. Comment in: Science 1996 Nov 8;274(5289):921–2.

A mammalian telomerase-associated protein [see comments] Harrington L, et al. **Science** 1997 Feb 14;275(5302):973–7 . Comment in: Science 1997 Feb 14;275(5302):928.

Delta-interacting protein A and the origin of hepatitis delta antigen [letter; comment] Long M, et al. **Science** 1997 May 2;276(5313):824–5. Comment on: Science 1996 Oct 4;274(5284):90–4.

Filling in the blanks in the p53 protein structure [news; comment] Pennisi E. **Science** 1996 Nov 8;274(5289):921–2 . Comment on: Science 1996 Nov 8;274(5289):948–50. Comment on: Science 1996 Nov 8;274(5289):1001–5.

Barley lipid-transfer protein complexed with palmitoyl CoA:

the structure reveals a hydrophobic binding site that can expand to fit both large and small lipid-like ligands. Lerche MH, et al. **Structure** 1997 Feb 15;5(2):291–306

Extensive features of tight oligosaccharide binding revealed in high-resolution structures of the maltodextrin transport/chemosensory receptor. Quiocho FA, et al. **Structure** 1997 Aug 15;5(8):997–1015

A cohesin domain from Clostridium thermocellum: the crystal structure provides new insights into cellulosome assembly. Shimon LJ, et al. **Structure** 1997 Mar 15; 5(3):381–90

Cyclophilin A complexed with a fragment of HIV-1 gag protein: insights into HIV-1 infectious activity. Zhao Y, et al. **Structure** 1997 Jan 15;5(1):139–46

Three-part inventions: intracellular signaling and induced proximity. Crabtree GR, et al. **Trends Biochem Sci** 1996 Nov;21(11):418–22 (46 ref.)

The targeting and assembly of peroxisomal proteins: some old rules do not apply. McNew JA, et al. **Trends Biochem Sci** 1996 Feb;21(2):54–8

TRAF proteins and meprins share a conserved domain. Uren AG, et al. **Trends Biochem Sci** 1996 Jul;21(7):244–5

[PotD protein: three-dimensional structure and function] Sugiyama S, et al. **Seikagaku** 1997 Feb;69(2):113–9 (16 ref.) **(Jpn)**

CLASSIFICATION

A novel family of ubiquitous heavy metal ion transport proteins. Paulsen IT, et al. **J Membr Biol** 1997 Mar 15; 156(2):99–103 (26 ref.)

ScCypB is a novel second cytosolic cyclophilin from Streptomyces chrysomallus which is phylogenetically distant from ScCypA. Pahl A, et al. **Microbiology** 1997 Jan;143 (Pt 1):117–26

Uniform nomenclature for the protein transport machinery of the mitochondrial membranes. Pfanner N, et al. **Trends Biochem Sci** 1996 Feb;21(2):51–2

Phylogenetic classification of the mitochondrial carrier family of Saccharomyces cerevisiae. el Moualij B, et al. **Yeast** 1997 May;13(6):573–81

DRUG EFFECTS

Taurine reabsorption by a carrier interacting with furosemide in short and long Henle's loops of rat nephrons. Silbernagl S, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):F205–13

Drug targets in the embryo. Studies on the cocaine- and antidepressant-sensitive serotonin transporter. Schroeter S, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:239–55 (83 ref.)

Using the 5-HT transporter dependency of p-chloroamphetamine-stimulated 5-HT release to determine the nature of fenfluramine-induced 5-HT transporter loss. Westphalen RI, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:168–73

Effect of the haloperidol tetrahydropyridine metabolite 4-(4-chlorophenyl)-1-[4-(4-fluorophenyl)-4-oxobutyl]-1,2,3,6- tetrahydropyridine on dopamine receptor and transporter binding. A nonhuman primate 123I-iodobenzamide and 2 beta-carbomethoxy-3 beta-(4-iodophenyl)tropane single photon emission computed tomographic study. Oliver DW, et al. **Arzneimittelforschung** 1997 Jun;47(6):692–9

Effect of dietary vitamin E supplements on cholesteryl ester transfer activity in hamster adipose tissue. Shen GX, et al. **Atherosclerosis** 1996 Aug 2;124(2):211–9

Tamoxifen inhibits nitrobenzylthioinosine-sensitive equilibrative uridine transport in human MCF-7 breast cancer cells. Cai J, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):991–5

Rapid interaction of FRCRCFa with the cytosolic side of the cardiac sarcolemma Na(+)-Ca2+ exchanger blocks the ion transport without preventing the binding of either sodium or calcium. Khananshvili D, et al. **Biochemistry** 1996 Dec 10;35(49):15933–40

Lack of dopamine receptor agonists effect on striatal dopamine transporter binding sites. Little KY, et al. **Brain Res** 1996 Dec 2;742(1-2):313–6

Programming of brainstem serotonin transporter development by prenatal glucocorticoids. Slotkin TA, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1-2):155–61

Ovariectomy and estradiol treatment affect the dopamine transporter and its gene expression in the rat brain. Bossé R, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):343–6

Knockout mice and dirty drugs. Drug addiction. Uhl GR, et al. **Curr Biol** 1996 Aug 1;6(8):935–6 (15 ref.)

The effect of increased egg consumption on plasma cholesteryl ester transfer activity in healthy subjects. Sutherland WH, et al. **Eur J Clin Nutr** 1997 Mar; 51(3):172–6

Methamphetamine-induced decrease in tryptophan hydroxylase activity: role of 5-hydroxytryptaminergic transporters. Fleckenstein AE, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):179–86

Modulatory effect of agents active in the presynaptic dopaminergic system on the striatal dopamine transporter. Gordon I, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):27–30

Na+/Ca2+ exchange current: lack of effect of taurine. Katsube Y, et al. **Eur J Pharmacol** 1996 Nov 28; 316(1):97–103

Cocaine inhibits the release of MPP+ but not dopamine through the rat dopamine transporter. Kitayama S, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):107–9

Three cases of Gitelman's syndrome possibly caused by different mutations in the thiazide-sensitive Na-Cl cotransporter. Takeuchi K, et al. **Intern Med** 1997 Aug; 36(8):582–5

A cholesteryl ester transfer protein inhibitor from an insect-associated fungus. Lee JC, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):693–6

Halogenated mazindol analogs as potential inhibitors of the cocaine binding site at the dopamine transporter. Houlihan WJ, et al. **J Med Chem** 1996 Dec 6;39(25):4935–41

Rapid and reversible effects of methamphetamine on dopamine transporters. Fleckenstein AE, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):834–8

Potential antidepressant effects of novel tropane compounds, selective for serotonin or dopamine transporters. Hemby SE, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):727–33

Interaction of fluorescein with the dicarboxylate carrier in rat kidney cortex mitochondria. Masereeuw R, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1559–65

Differential regulation of dopamine transporter after chronic self-administration of bupropion and nomifensine. Tella SR, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):508–13

Effect of glutathione depletion on cisplatin resistance in cancer cells transfected with the gamma-glutamylcysteine synthetase gene. Kurokawa H, et al. **Jpn J Cancer Res** 1997 Feb;88(2):108–10

Stimulation of Rb+ influx by bradykinin through Na+/K+/Cl- cotransport and Na+/K(+)-ATPase in NIH-3T3 fibroblasts. Hichami A, et al. **Life Sci** 1996; 59(22):1829–37

Correlations between Mycoplasma pneumoniae sensitivity to cyclosporin A and cyclophilin-mediated regulation of mycoplasma cytadherence. Reddy SP, et al. **Microb Pathog** 1996 Mar;20(3):155–69

Contrasting modes of action of methylglutamate derivatives on the excitatory amino acid transporters, EAAT1 and EAAT2. Vandenberg RJ, et al. **Mol Pharmacol** 1997 May; 51(5):809–15

The effect of chronic haloperidol treatment on glutamate receptor subunit (GluR1, GluR2, KA1, KA2, NR1) mRNAs and glutamate binding protein mRNA in rat forebrain. Eastwood SL, et al. **Neurosci Lett** 1996 Jul 19; 212(3):163–6

A possible role for tyrosine kinases in the regulation of the neuronal dopamine transporter in mouse striatum. Simon JR, et al. **Neurosci Lett** 1997 Mar 21;224(3):201–5

Dopamine-induced apoptosis in human neuronal cells: inhibition by nucleic acids antisense to the dopamine transporter. Simantov R, et al. **Neuroscience** 1996 Sep; 74(1):39–50

Enhancement of performance in multiple learning tasks by corticotropin-releasing factor-binding protein ligand inhibitors. Heinrichs SC, et al. **Peptides** 1997;18(5):711–6

Activation of the orphan receptor RIP14 by retinoids. Zavacki AM, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7909–14

Platelet serotonergic indices in major depression: up-regulation of 5-HT2A receptors unchanged by antidepressant treatment. Hrdina PD, et al. **Psychiatry Res** 1997 Feb 7;66(2-3):73–85

Regulation of central serotonin transporters by chronic lithium: an autoradiographic study. Carli M, et al. **Synapse** 1997 Sep;27(1):83–9

Binding of the [125I]3 beta-(iodophenyl)tropan-2 beta-carboxylic acid isopropyl ester to the dopamine transporter at a physiologically relevant temperature: mutually exclusive binding and different ionic requirements for various uptake blockers and substrates. Chen NH, et al. **Synapse** 1997 Feb;25(2):155–62

A new iodinated tropane derivative (beta-CDIT) for in vivo dopamine transporter exploration: comparison with beta-CIT. Emond P, et al. **Synapse** 1997 May;26(1):72–80

Effect of dopaminergic drugs on the in vivo binding of [3H]WIN 35,428 to central dopamine transporters. Scheffel U, et al. **Synapse** 1996 Jun;23(2):61–9

Effect of cadmium on Na-Pi cotransport kinetics in rabbit renal brush-border membrane vesicles. Park K, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):255–9

Regulation of beta-lactamase synthesis as a novel site of action for suppression of methicillin resistance in Staphylococcus aureus. Bruns O, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):413–30

GENETICS

Localization of Menkes gene expression in the mouse brain; its association with neurological manifestations in Menkes model mice. Iwase T, et al. **Acta Neuropathol (Berl)** 1996; 91(5):482–8

Two families of Lowe oculocerebrorenal syndrome with elevated serum HDL cholesterol levels and CETP gene mutation. Asami T, et al. **Acta Paediatr** 1997 Jan;86(1):41–5

Cloning, sequencing, and expression of a Campylobacter jejuni periplasmic binding protein (P29) involved in histidine transport. Garvis SG, et al. **Adv Exp Med Biol** 1997;412:263–4

Analysis of the RPGR gene in 11 pedigrees with the retinitis pigmentosa type 3 genotype: paucity of mutations in the coding region but splice defects in two families. Fujita R, et al. **Am J Hum Genet** 1997 Sep;61(3):571–80

Novel molecular variants of the Na-Cl cotransporter gene are responsible for Gitelman syndrome. Mastroianni N, et al. **Am J Hum Genet** 1996 Nov;59(5):1019–26

Haplotype and mutation analysis in Japanese patients with Wilson disease. Nanji MS, et al. **Am J Hum Genet** 1997 Jun;60(6):1423–9

A C2055T transition in exon 8 of the ATP7A gene is associated with exon skipping in an occipital horn syndrome family [letter] Ronce N, et al. **Am J Hum Genet** 1997 Jul;61(1):233–8

Identification and analysis of mutations in the Wilson disease gene (ATP7B): population frequencies, genotype-phenotype correlation, and functional analyses. Shah AB, et al. **Am J Hum Genet** 1997 Aug;61(2):317–28

Identification of point mutations in 41 unrelated patients affected with Menkes disease. Tümer Z, et al. **Am J Hum Genet** 1997 Jan;60(1):63–71

Molecular analysis of cystinuria in Libyan Jews: exclusion of the SLC3A1 gene and mapping of a new locus on 19q. Wartenfeld R, et al. **Am J Hum Genet** 1997 Mar; 60(3):617–24

Intact coding region of the serotonin transporter gene in obsessive-compulsive disorder. Altemus M, et al. **Am J Med Genet** 1996 Jul 26;67(4):409–11

Exclusion of linkage between schizophrenia and the gene encoding a neutral amino acid glutamate/aspartate transporter, SLC1A5. Chen AC, et al. **Am J Med Genet** 1997 Feb 21;74(1):50–2

Polygenic inheritance of Tourette syndrome, stuttering, attention deficit hyperactivity, conduct, and oppositional defiant disorder: the additive and subtractive effect of the three dopaminergic genes--DRD2, D beta H, and DAT1. Comings DE, et al. **Am J Med Genet** 1996 May 31; 67(3):264–88

Systematic screening for mutations in the coding region of the human serotonin transporter (5-HTT) gene using PCR and DGGE. Di Bella D, et al. **Am J Med Genet** 1996 Nov 22;67(6):541–5

Dopamine transporter gene polymorphism and psychiatric symptoms seen in schizophrenic patients at their first episode. Inada T, et al. **Am J Med Genet** 1996 Jul 26; 67(4):406–8

Possible locus for bipolar disorder near the dopamine transporter on chromosome 5. Kelsoe JR, et al. **Am J Med Genet** 1996 Nov 22;67(6):533–40

Genotypic association between dopamine transporter gene polymorphisms and schizophrenia. Persico AM, et al. **Am J Med Genet** 1997 Feb 21;74(1):53–7

Association study of bipolar disorder with candidate genes involved in catecholamine neurotransmission: DRD2, DRD3, DAT1, and TH genes. Souery D, et al. **Am J Med Genet** 1996 Nov 22;67(6):551–5

Systematic search for variation in the human norepinephrine transporter gene: identification of five naturally occurring missense mutations and study of association with major psychiatric disorders. Stöber G, et al. **Am J Med Genet** 1996 Nov 22;67(6):523–32

Phenotypes in three Swedish families with X-linked retinitis pigmentosa caused by different mutations in the RPGR gene. Andréasson S, et al. **Am J Ophthalmol** 1997 Jul; 124(1):95–102

Frequent p16INK4 (MTS1) gene inactivation in testicular germ cell tumors. Chaubert P, et al. **Am J Pathol** 1997 Sep;151(3):859–65

Transforming growth factors-beta 1, -beta 2, and -beta 3 stimulate fibroblast procollagen production in vitro but are differentially expressed during bleomycin-induced lung fibrosis. Coker RK, et al. **Am J Pathol** 1997 Mar; 150(3):981–91

Expression cloning of NaDC-2, an intestinal Na(+)- or Li(+)-dependent dicarboxylate transporter. Bai L, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G267–74

Dissociation of hypothalamic NPY from BAT uncoupling protein mRNA in rats exposed to 24 h thermoneutrality. Bing C, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R111–7

Betaine transporter cDNA cloning and effect of osmolytes on its mRNA induction. Ferraris JD, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C650–4

Molecular cloning of canalicular multispecific organic anion transporter defective in EHBR. Ito K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G16–22

Osmolarity in renal medulla of transgenic mice regulates transcription via 5'-flanking region of canine BGT1 gene. Kaneko T, et al. **Am J Physiol** 1997 May;272(5 Pt 2):F610–6

Reduction of dietary obesity in aP2-Ucp transgenic mice: physiology and adipose tissue distribution. Kopecký J, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E768–75

Reduction of dietary obesity in aP2-Ucp transgenic mice: mechanism and adipose tissue morphology. Kopecký J, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E776–86

Regulation of rat Na+/Pi cotransporter-1 gene expression: the roles of glucose and insulin. Li H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1021–8

Regulation of renal oatp mRNA expression by testosterone. Lu R, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F332–7

Molecular cloning and functional expression of a sodium-dicarboxylate cotransporter from human kidney. Pajor AM. **Am J Physiol** 1996 Apr;270(4 Pt 2):F642–8

Tissue specificity and alternative splicing of the Na+/Ca2+ exchanger isoforms NCX1, NCX2, and NCX3 in rat. Quednau BD, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1250–61

Molecular cloning and functional expression of cDNAs encoding a human Na+-nucleoside cotransporter (hCNT1). Ritzel MW, et al. **Am J Physiol** 1997 Feb;272(2

Pt 1):C707–14
Tandem sequence repeats in urea transporters: identification of an urea transporter signature sequence [letter] Rousselet G, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F554–5
Na+/Ca2+ exchanger in Drosophila: cloning, expression, and transport differences. Ruknudin A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C257–65
Segmental localization of urea transporter mRNAs in rat kidney. Shayakul C, et al. **Am J Physiol** 1997 May;272(5 Pt 2):F654–60
Structural and functional analysis of Na+/Ca2+ exchange in distal convoluted tubule cells. White KE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F560–70
Osmotic regulation of Na–myo–inositol cotransporter mRNA level and activity in endothelial and neural cells [published errata appear in Am J Physiol 1996 Sep;271(3 Pt 1):section C following table of contents and 1996 Dec;271(6 Pt 3):section C following table of contents] Wiese TJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C990–7
Molecular characterization of the human airway smooth muscle Na+/Ca2+ exchanger. Pitt A, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):726–30
Transformations of membrane–bound organelles in sec 14 mutants of the yeasts Saccharomyces cerevisiae and Yarrowia lipolytica. Rambourg A, et al. **Anat Rec** 1996 Jul;245(3):447–58
The Bcg gene (Nramp1) does not determine resistance of mice to virulent Mycobacterium tuberculosis. Medina E, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:257–9
Friedreich–like ataxia with retinitis pigmentosa caused by the His101Gln mutation of the alpha–tocopherol transfer protein gene. Yokota T, et al. **Ann Neurol** 1997 Jun; 41(6):826–32
Absence of p16 gene (CDKN2) deletions in microdissected primary breast carcinoma specimens. Calvano JE, et al. **Ann Surg Oncol** 1997 Jul–Aug;4(5):416–20
Molecular biology of mammalian amino acid transporters. Malandro MS, et al. **Annu Rev Biochem** 1996;65:305–36 (145 ref.)
Intracellular lipid–binding proteins and their genes. Bernlohr DA, et al. **Annu Rev Nutr** 1997;17:277–303 (133 ref.)
A mutation in the D,D–carboxypeptidase penicillin–binding protein 3 of Streptococcus pneumoniae contributes to cefotaxime resistance of the laboratory mutant C604. Krauss J, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):936–42
Modification of penicillin–binding protein 5 associated with high–level ampicillin resistance in Enterococcus faecium. Ligozzi M, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):354–7
Directly repeated insertion of 9–nucleotide sequence detected in penicillin–binding protein 2B gene of penicillin–resistant Streptococcus pneumoniae. Yamane A, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1257–9
Cloning and functional expression in Escherichia coli of the gene encoding the di– and tripeptide transport protein of Lactobacillus helveticus. Nakajima H, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2213–7
The methanogenic archaeon Methanosarcina thermophila TM–1 possesses a high–affinity glycine betaine transporter involved in osmotic adaptation. Proctor LM, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2252–7
Metallothionein–IIA promoter induction alters rat intestinal fatty acid binding protein expression, fatty acid uptake, and lipid metabolism in transfected L–cells. Prows DR, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):135–43
The canine sodium/myo–inositol cotransporter gene: structural organization and characterization of the promoter. Rim JS, et al. **Arch Biochem Biophys** 1997 May 1;341(1):193–9
Cloning, sequencing, and characterization of a gene (narT) encoding a transport protein involved in dissimilatory nitrate reduction in Staphylococcus carnosus. Fast B, et al. **Arch Microbiol** 1996 Dec;166(6):361–7
A Corynebacterium glutamicum gene encoding a two–domain protein similar to biotin carboxylases and biotin–carboxyl–carrier proteins. Jäger W, et al. **Arch Microbiol** 1996 Aug;166(2):76–82
Deletion analysis of the p16/CDKN2 gene in head and neck squamous cell carcinoma using quantitative polymerase chain reaction method. Rawnsley JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):863–7
Skipping of exon 14 and possible instability of both the mRNA and the resultant truncated protein underlie a common cholesteryl ester transfer protein deficiency in Japan. Gotoda T, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1376–81
Common genomic variants associated with variation in plasma lipoproteins in young aboriginal Canadians. Hegele RA, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1060–6
Genetic cholesteryl ester transfer protein deficiency is extremely frequent in the Omagari area of Japan. Marked hyperalphalipoproteinemia caused by CETP gene mutation is not associated with longevity. Hirano K, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1053–9
Heterogeneity at the CETP gene locus. Influence on plasma CETP concentrations and HDL cholesterol levels. Kuivenhoven JA, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):560–8
Codon 54 polymorphism of the human intestinal fatty acid binding protein 2 gene is associated with dyslipidemias but not with insulin resistance in patients with familial combined hyperlipidemia. Pihlajamäki J, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1039–44
Mannose–binding protein genetic polymorphisms in black patients with systemic lupus erythematosus. Sullivan KE, et al. **Arthritis Rheum** 1996 Dec;39(12):2046–51
Clinical characteristics of double heterozygotes with familial hypercholesterolemia and cholesteryl ester transfer protein deficiency. Haraki T, et al. **Atherosclerosis** 1997 Jul 25; 132(2):229–36
A polymorphic site in the 3' untranslated region of the cholesteryl ester transfer protein (CETP) gene is associated with low CETP activity. Tamminen M, et al. **Atherosclerosis** 1996 Aug 2;124(2):237–47
Tissue distribution and abundance of human FKBP51, and FK506–binding protein that can mediate calcineurin inhibition. Baughman G, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):437–43
The EGF receptor binding of recombinant heregulinbeta1/EGF hybrids is blocked by heregulin residue glutamate 195. Chau BN, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):882–6
Increase in serum leptin and uterine leptin receptor messenger RNA levels during pregnancy in rats. Chien EK, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):476–80
Expression of a non–MDR2–coded liver phosphatidylcholine membrane transport protein in Xenopus laevis oocytes. Cornacchia L, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):277–82
The cloning and expression of the baboon acid–labile subunit of the insulin–like growth factor binding protein complex. Delhanty P, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):897–902
Expression and functional characterization of the mammalian intestinal peptide transporter PepT1 in the methylotropic yeast Pichia pastoris. Döring F, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):656–62
Amino acid variants in the human leptin receptor: lack of association to juvenile onset obesity. Echwald SM, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):248–52
Expression of sodium–dependent purine nucleoside carrier (SPNT) mRNA correlates with nucleoside transport activity in rat liver. Felipe A, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):572–5
Localization of leptin receptor mRNA splice variants in murine peripheral tissues by RT–PCR and in situ hybridization. Hoggard N, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):383–7
The genomic organization of the genes for human lipopolysaccharide binding protein (LBP) and bactericidal permeability increasing protein (BPI) is highly conserved. Hubacek JA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):427–30
Gene regulation of HBP 23 by metalloporphyrins and protoporphyrin IX in liver and hepatocyte cultures. Immenschuh S, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):667–70
Expression in Escherichia coli, phosphorylation with cAMP–dependent protein kinase and proteolysis by calpain of a 71–kDa domain of human endothelial actin binding protein. Jay D, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):555–8
Deletion of the nuclear gene encoding the mitochondrial citrate transport protein from Saccharomyces cerevisiae. Kaplan RS, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):657–62
Molecular cloning of a partial cDNA of a novel gene in iron metabolism. Kedar V, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):683–9
Establishment and characterization of a Chinese hamster ovary cell line, CHO–4J, stably expressing a number of Na+/I– symporters. Kosugi S, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):94–101
Mutations of the INK4a locus in squamous cell carcinomas of human skin. Kubo Y, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):38–41
Genetic alterations of p16INK4a and p53 genes in sporadic dysplastic nevus. Lee JY, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):667–72
Bone mass loss due to estrogen deficiency is compensated in transgenic mice overexpressing human osteoblast stimulating factor–1. Masuda H, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):528–33
Alternatively spliced isoforms of the Na+/Ca2+ exchanger in the guinea pig cochlea. Oshima T, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):737–41
Molecular cloning and organization of the coding region of the human norepinephrine transporter gene. Pörzgen P, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):642–3
Cloning of a cDNA encoding a novel importin–alpha homologue, Qip1: discrimination of Qip1 and Rch1 from hSrp1 by their ability to interact with DNA helicase Q1/RecQL. Seki T, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):48–53
Analysis of the promoter region of the human VEGF–related factor gene. Silins G, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):413–8
Effects of exogenous p16INK4a on growth of cells with various status of cell–cycle regulators. Suzuki–Takahashi I, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):386–92
DNA sequences essential for transcription of human phospholipid transfer protein gene in HepG2 cells. Tu AY, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):574–7
Cloning and characterization of Gu/RH–II binding protein. Valdez BC, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):335–40
UCP3: an uncoupling protein homologue expressed preferentially and abundantly in skeletal muscle and brown adipose tissue. Vidal–Puig A, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):79–82
Expression and localization of human kallistatin in rat submandibular gland after intracapsular gene injection. Xiong W, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):494–8
Identification of a unique monocarboxylate transporter (MCT3) in retinal pigment epithelium. Yoon H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):90–4
Purification, characterization, and partial amino acid sequencing of an amphibian liver fatty acid binding protein. Schleicher CH, et al. **Biochem Cell Biol** 1996;74(1):109–15
Nramp1 locus encodes a 65 kDa interferon–gamma–inducible protein in murine macrophages. Atkinson PG, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):779–86
A 19 kDa protein secreted by the endometrium of the mare is a novel member of the lipocalin family. Crossett B, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):137–43
Two genes encoding an endoglucanase and a cellulose–binding protein are clustered and co–regulated by a TTA codon in Streptomyces halstedii JM8. Garda AL, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):403–11
Cloning of the monocarboxylate transporter isoform MCT2 from rat testis provides evidence that expression in tissues is species–specific and may involve post–transcriptional regulation. Jackson VN, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):447–53
LP2, a differentiation–associated lipid–binding protein expressed in bovine lens. Jaworski C, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):49–54
The YNT1 gene encoding the nitrate transporter in the yeast Hansenula polymorpha is clustered with genes YNI1 and YNR1 encoding nitrite reductase and nitrate reductase, and its disruption causes inability to grow in nitrate. Pérez MD, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):397–403
Multiple components of arginine and phenylalanine transport induced in neutral and basic amino acid transporter–cRNA–injected Xenopus oocytes. Peter GJ, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):915–22
Tissue–specific promoters of the alpha human folate receptor gene yield transcripts with divergent 5' leader sequences and different translational efficiencies. Roberts SJ, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):439–47
Gene structure and functional analysis of the human Na+/phosphate co–transporter. Taketani Y, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):927–34
Two forms of Wilson disease protein produced by alternative splicing are localized in distinct cellular compartments. Yang XL, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):897–902
Successful early copper therapy in menkes disease associated with a mutant transcript containing a small In–frame deletion. Kaler SG, et al. **Biochem Mol Med** 1996 Feb; 57(1):37–46
Transcriptional regulation of the betaine/gamma–aminobutyric acid transporter by hypertonicity. Kwon HM. **Biochem Soc Trans** 1996 Aug; 24(3):853–6 (27 ref.)
Regulation of cationic amino acid transporter (CAT) gene expression. MacLeod CL. **Biochem Soc Trans** 1996 Aug; 24(3):846–52 (46 ref.)
8–cyclopentyl–1,3–dipropylxanthine and other xanthines differentially bind to the wild–type and delta F508 first nucleotide binding fold (NBF–1) domains of the cystic fibrosis transmembrane conductance regulator. Cohen BE, et al. **Biochemistry** 1997 May 27;36(21):6455–61
Mutagenesis of the uncoupling protein of brown adipose tissue. Neutralization Of E190 largely abolishes pH control of nucleotide binding. Echtay KS, et al. **Biochemistry** 1997 Jul 8;36(27):8253–60
The divergent 5' termini of the alpha human folate receptor (hFR) mRNAs originate from two tissue–specific promoters and alternative splicing: characterization of the alpha hFR gene structure. Elwood PC, et al. **Biochemistry** 1997 Feb 11;36(6):1467–78
Energetic and kinetic contributions of contact residues of antibody D1.3 in the interaction with lysozyme. England P, et al. **Biochemistry** 1997 Jan 7;36(1):164–72
Organization of the murine reduced folate carrier gene and identification of variant splice forms. Brigle KE, et al. **Biochim Biophys Acta** 1997 Aug 7;1353(2):191–8
A liver–specific isoform of the betaine/GABA transporter in the rat: cDNA sequence and organ distribution. Burnham CE, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):4–8
Both the H13 gene product and 4F2 antigen are involved in the induction of system y+ cationic amino–acid transport following activation of human peripheral blood mononuclear cells (PBM). Chen S, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):1–3
Adaptive regulation of MDCK cell taurine transporter (pNCT) mRNA: transcription of pNCT gene is regulated by external taurine concentration. Han X, et al. **Biochim Biophys Acta** 1997 Apr 10;1351(3):296–304
Molecular cloning of a mammalian homologue of the yeast

vesicular transport protein vps45. El-Husseini AE, et al. **Biochim Biophys Acta** 1997 Apr 3;1325(1):8–12

Cloning and sequencing of the bovine cDNA encoding the mitochondrial tricarboxylate carrier protein. Iacobazzi V, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):9–12

Cloning of the cDNA for a rat intestinal Na+/dicarboxylate cotransporter reveals partial sequence homology with a rat intestinal mucin. Khatri IA, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1–2):58–62

Cloning and characterization of a cotton lipid transfer protein gene specifically expressed in fiber cells. Ma DP, et al. **Biochim Biophys Acta** 1997 Jan 21;1344(2):111–4

Purification and characterisation of a plasminogen-binding protein from Haemophilus influenzae. Sequence determination reveals identity with aspartase. Sjöström I, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):182–90

cDNA cloning of rat mitochondrial cyclophilin. Woodfield KY, et al. **Biochim Biophys Acta** 1997 Mar 20; 1351(1–2):27–30

Production and characterization of a mutant cell line defective in aminophospholipid translocase. Zhao J, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):57–64

Expression of a recombinant human growth hormone binding protein in baculovirus/insect cell system. Cholin S, et al. **Biochimie** 1996;78(10):882–6

Allelotype analysis in mouse hepatocellular carcinomas; frequent homozygous deletion of mouse homolog of p16/CDKN2 gene on chromosome 4 in culture. Miyasaka K, et al. **Biol Pharm Bull** 1996 May;19(5):683–91

Phenylmercury transport mediated by merT-merP genes of Pseudomonas K-62 plasmid pMR26. Uno Y, et al. **Biol Pharm Bull** 1997 Jan;20(1):107–9

Serotonin transporter gene and manic depressive illness: an association study. Bellivier F, et al. **Biol Psychiatry** 1997 Mar 15;41(6):750–2

Allelic association of a dopamine transporter gene polymorphism in alcohol dependence with withdrawal seizures or delirium. Sander T, et al. **Biol Psychiatry** 1997 Feb 1;41(3):299–304

Do glucocorticoids contribute to the abnormalities in serotonin transporter expression and function seen in depression? An animal model. Slotkin TA, et al. **Biol Psychiatry** 1996 Oct 1;40(7):576–84

Altered ovarian sterol carrier protein expression in the pregnant streptozotocin-treated diabetic rat. McLean MP, et al. **Biol Reprod** 1996 Jul;55(1):38–46

Molecular cloning and structural analysis of the gene encoding PERF 15 protein present in the perinuclear theca of the rat spermatozoa. Pouresmaeili F, et al. **Biol Reprod** 1997 Sep;57(3):655–9

The GS-X pump in plant, yeast, and animal cells: structure, function, and gene expression. Ishikawa T, et al. **Biosci Rep** 1997 Apr;17(2):189–207 (100 ref.)

Absence of linkage between type III protein S deficiency and the PROS1 and C4BP genes in families carrying the protein S Heerlen allele. Espinosa-Parrilla Y, et al. **Blood** 1997 Apr 15;89(8):2799–806

Molecular mechanism of antifolate transport-deficiency in a methotrexate-resistant MOLT-3 human leukemia cell line. Gong M, et al. **Blood** 1997 Apr 1;89(7):2494–9

Homozygous deletion of the p16/MTS1 gene in pediatric acute lymphoblastic leukemia is associated with unfavorable clinical outcome. Kees UR, et al. **Blood** 1997 Jun 1;89(11):4161–6

Frequent hypermethylation of p16 and p15 genes in multiple myeloma. Ng MH, et al. **Blood** 1997 Apr 1;89(7):2500–6

Deletions and loss of expression of p16INK4a and p21Waf1 genes are associated with aggressive variants of mantle cell lymphomas. Pinyol M, et al. **Blood** 1997 Jan 1;89(1):272–80

The t(11;16)(q23;p13) translocation in myelodysplastic syndrome fuses the MLL gene to the CBP gene. Taki T, et al. **Blood** 1997 Jun 1;89(11):3945–50

Hypermethylation of the p15INK4B gene in myelodysplastic syndromes. Uchida T, et al. **Blood** 1997 Aug 15; 90(4):1403–9

Screening for mannose binding protein gene in routine practice is unnecessary [letter; comment] Hawke C. **BMJ** 1997 Aug 16;315(7105):428–9. Comment on: BMJ 1997 Apr 26;314(7089):1229–32.

Association of mutations in mannose binding protein gene with childhood infection in consecutive hospital series [see comments] Summerfield JA, et al. **BMJ** 1997 Apr 26; 314(7089):1229–32. Comment in: BMJ 1997 Aug 16;315(7105):428–9.

Absence of deletions but frequent loss of expression of p16INK4 in human ovarian tumours. Marchini S, et al. **Br J Cancer** 1997;76(2):146–9

Genes involved in cell cycle G1 checkpoint control are frequently mutated in human melanoma metastases. Platz A, et al. **Br J Cancer** 1996 Sep;74(6):936–41

Sporadic CDKN2 (MTS1/p16ink4) gene alterations in human ovarian tumours. Schuyer M, et al. **Br J Cancer** 1996 Oct;74(7):1069–73

Multigenetic lesions in infant acute leukaemias: correlations with ALL-1 gene status. Cimino G, et al. **Br J Haematol** 1997 Feb;96(2):308–13

The CDKN2 gene alterations in various types of adult T-cell leukaemia. Uchida T, et al. **Br J Haematol** 1996 Sep; 94(4):665–70

Association of EGFR gene amplification and CDKN2 (p16/MTS1) gene deletion in glioblastoma multiforme. Hayashi Y, et al. **Brain Pathol** 1997 Jul;7(3):871–5

Expression of mRNA coding for the serotonin transporter in aged vs. young rat brain: differential effects of glucocorticoids. Fumagalli F, et al. **Brain Res** 1996 May 6;719(1–2):225–8

Contrasting effects of electroconvulsive shock on mRNAs encoding the high affinity kainate receptor subunits (KA1 and KA2) and cyclophilin in the rat. Porter RH, et al. **Brain Res** 1996 Feb 26;710(1–2):97–102

Effects of in utero cocaine exposure on the expression of mRNAS encoding the dopamine transporter and the D1, D2 and D5 dopamine receptor subtypes in fetal rhesus monkey. Choi WS, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):249–60

Expression and mRNA splicing of glycine receptor subunits and gephyrin during neuronal differentiation of P19 cells in vitro, studied by RT-PCR and immunocytochemistry. Heck S, et al. **Brain Res Dev Brain Res** 1997 Feb 20; 98(2):211–20

Gene structure and 5'-flanking regulatory region of the murine serotonin transporter. Bengel D, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):286–92

Dopamine transporter (Dat) and synaptic vesicle amine transporter (VMAT2) gene expression in the substantia nigra of control and Parkinson's disease. Harrington KA, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):157–62

The differential osmoregulation and localization of taurine transporter mRNA and Na+/myo-inositol cotransporter mRNA in rat eyes. Morimura H, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):245–52

Increased expression of the mRNA for brain- and skin-type but not heart-type fatty acid binding proteins following kainic acid systemic administration in the hippocampal glia of adult rats. Owada Y, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):156–60

Expression of OBCAM-related cDNA clones in Cos 1 cells: evidence for a phosphatidylinositol linkage to the cell membrane. Wick MJ, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):322–8

Changes in glutamate/aspartate transporter (GLAST/GluT-1) mRNA expression following facial nerve transection. Yamashita T, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):294–9

Regional distribution of GABA transporter 1 (GAT1) mRNA in the rat brain: comparison with glutamic acid decarboxylase67 (GAD67) mRNA localization. Yasumi M, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):205–18

Inhibition of esophageal cancer proliferation by adenovirally mediated delivery of p16INK4. Schrump DS, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):357–64

Frequent allelic losses of 9p21 markers and low incidence of mutations at p16(CDKN2) gene in non-Hodgkin lymphomas of B-cell lineage. Fernández-Piqueras J, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):63–8

Analysis of the p16INK4 and TP53 tumor suppressor genes in bone sarcoma pediatric patients. Patiño-García A, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):50–5

p16 tumor suppressor gene mutations in Chinese esophageal carcinomas in Hong Kong. Chan WC, et al. **Cancer Lett** 1997 May 19;115(2):201–6

Expression of truncated midkine in human colorectal cancers. Miyashiro I, et al. **Cancer Lett** 1996 Sep 10;106(2):287–91

CRADD, a novel human apoptotic adaptor molecule for caspase-2, and FasL/tumor necrosis factor receptor-interacting protein RIP. Ahmad M, et al. **Cancer Res** 1997 Feb 15;57(4):615–9

Isolation of a candidate gene, CAB1, for cholesterol transport to mitochondria from the c-ERBB-2 amplicon by a modified cDNA selection method. Akiyama N, et al. **Cancer Res** 1997 Aug 15;57(16):3548–53

Frequent and selective methylation of p15 and deletion of both p15 and p16 in T-cell acute lymphoblastic leukemia. Batova A, et al. **Cancer Res** 1997 Mar 1;57(5):832–6

Amplification of the genes BCHE and SLC2A2 in 40% of squamous cell carcinoma of the lung. Brass N, et al. **Cancer Res** 1997 Jun 1;57(11):2290–4

Lack of imprinting of three human cyclin-dependent kinase inhibitor genes. Cost GJ, et al. **Cancer Res** 1997 Mar 1; 57(5):926–9

Chromosome 9p deletions in invasive and noninvasive nonfunctional pituitary adenomas: the deleted region involves markers outside of the MTS1 and MTS2 genes. Farrell WE, et al. **Cancer Res** 1997 Jul 1;57(13):2703–9

Loss of the p16INK4a and p15INK4b genes, as well as neighboring 9p21 markers, in sporadic melanoma. Flores JF, et al. **Cancer Res** 1996 Nov 1;56(21):5023–32

Distinct patterns of inactivation of p15INK4B and p16INK4A characterize the major types of hematological malignancies. Herman JG, et al. **Cancer Res** 1997 Mar 1; 57(5):837–41

Silencing of the mammary-derived growth inhibitor (MDGI) gene in breast neoplasms is associated with epigenetic changes. Huynh H, et al. **Cancer Res** 1996 Nov 1; 56(21):4865–70

Analysis of expression of cMOAT (MRP2), MRP3, MRP4, and MRP5, homologues of the multidrug resistance-associated protein gene (MRP1), in human cancer cell lines. Kool M, et al. **Cancer Res** 1997 Aug 15; 57(16):3537–47

A p18 mutant defective in CDK6 binding in human breast cancer cells. Lapointe J, et al. **Cancer Res** 1996 Oct 15; 56(20):4586–9

p16 and K-ras gene mutations in the intraductal precursors of human pancreatic adenocarcinoma. Moskaluk CA, et al. **Cancer Res** 1997 Jun 1;57(11):2140–3

Abrogation of the Rb/p16 tumor-suppressive pathway in virtually all pancreatic carcinomas. Schutte M, et al. **Cancer Res** 1997 Aug 1;57(15):3126–30

Antitumor activity of the novel human breast cancer growth inhibitor, mammary-derived growth inhibitor-related gene, MRG. Shi YE, et al. **Cancer Res** 1997 Aug 1; 57(15):3084–91

Retinoblastoma binding factor 1 site in the core promoter region of the human RB gene is activated by hGABP/E4TF1. Sowa Y, et al. **Cancer Res** 1997 Aug 1; 57(15):3145–8

Deletion map of chromosome 9 and p16 (CDKN2A) gene alterations in neuroblastoma. Takita J, et al. **Cancer Res** 1997 Mar 1;57(5):907–12

Cloning and characterization of p10, an alternatively spliced form of p15 cyclin-dependent kinase inhibitor. Tsubari M, et al. **Cancer Res** 1997 Jul 15;57(14):2966–73

p16INK4a promoter is hypermethylated at a high frequency in esophageal adenocarcinomas. Wong DJ, et al. **Cancer Res** 1997 Jul 1;57(13):2619–22

CDKN2 mutations in melanoma. Dracopoli NC, et al. **Cancer Surv** 1996;26:115–32 (72 ref.)

Absence of p16/MTS1 gene mutations in human prostate cancer. Chen W, et al. **Carcinogenesis** 1996 Dec; 17(12):2603–7

The MAD-related protein Smad7 associates with the TGFbeta receptor and functions as an antagonist of TGFbeta signaling. Hayashi H, et al. **Cell** 1997 Jun 27; 89(7):1165–73

Daxx, a novel Fas-binding protein that activates JNK and apoptosis. Yang X, et al. **Cell** 1997 Jun 27;89(7):1067–76

Characterization and regulation of the expression of the Solanum tuberosum Lhcb1 genes. Fernández SV, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):577–87

Molecular cloning of two rat Na+/Pi cotransporters: evidence for differential tissue expression of transcripts. Li H, et al. **Cell Mol Biol Res** 1995;41(5):451–60

Characterization of 5'-proximal sequence of mouse GABA transporter gene (GAT-1). Fei J, et al. **Cell Res** 1997 Jun; 7(1):61–7

Amplification and altered expression of the hsc70/U14 snoRNA gene in a heat resistant Chinese hamster cell line. Chen MS, et al. **Cell Stress Chaperones** 1996 Apr;1(1):47–61

The molecular response to reductive stress in LLC-PK1 renal epithelial cells: coordinate transcriptional regulation of gadd153 and grp78 genes by thiols. Halleck MM, et al. **Cell Stress Chaperones** 1997 Mar;2(1):31–40

Intestinal fatty acid-binding protein expression stimulates fibroblast fatty acid esterification. Prows DR, et al. **Chem Phys Lipids** 1996 Nov 1;84(1):47–56

Comparative FISH-mapping of villin (VIL) gene in river buffalo, sheep and goat chromosomes. Iannuzzi L, et al. **Chromosome Res** 1997 May;5(3):199–202

Cyclophilin 40 (PPID) gene map position 4q31.3. Ratajczak T, et al. **Chromosome Res** 1997 Apr;5(2):151

Skeletal muscle-specific myosin binding protein-H is expressed in Purkinje fibers of the cardiac conduction system. Alyonycheva T, et al. **Circ Res** 1997 May; 80(5):665–72

Organization and sequence of human cardiac myosin binding protein C gene (MYBPC3) and identification of mutations predicted to produce truncated proteins in familial hypertrophic cardiomyopathy [see comments] Carrier L, et al. **Circ Res** 1997 Mar;80(3):427–34. Comment in: Circ Res 1997 Mar;80(3):435–6.

Missing pieces: myosin binding protein C truncations in familial hypertrophic cardiomyopathy [editorial; comment] Frenkel PA, et al. **Circ Res** 1997 Mar;80(3):435–6. Comment on: Circ Res 1997 Mar;80(3):427–34.

Protean patterns of gene expression in the heart conduction system [editorial] Schiaffino S. **Circ Res** 1997 May; 80(5):749–50

Mutations in cholesteryl ester transfer protein and hepatic lipase in a North American population. Hill SA, et al. **Clin Biochem** 1997 Jul;30(5):413–8

The human plasmalemmal carnitine transporter defect is expressed in cultured lymphoblasts: a new non-invasive method for diagnosis [letter] Tein I, et al. **Clin Chim Acta** 1996 Aug 30;252(2):201–4

Mycobacterium tuberculosis efpA encodes an efflux protein of the QacA transporter family. Doran JL, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):23–32

Interaction of the cholesteryl ester transfer protein I405V polymorphism with alcohol consumption in smoking and non-smoking healthy men, and the effect on plasma HDL cholesterol and apoAI concentration. Gudnason V, et al. **Clin Genet** 1997 Jan;51(1):15–21

The cholesteryl ester transfer protein (CETP) locus as a candidate gene in abdominal aortic aneurysm. Ramsbottom D, et al. **Clin Genet** 1997 Apr;51(4):241–5

The serotonin transporter gene and affective disorder. Harmar AJ, et al. **Cold Spring Harb Symp Quant Biol** 1996; 61:791–5

Isolation and characterization of a cDNA encoding a Xenopus 70-kDa heat shock cognate protein, Hsc70.I. Ali A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr;113(4):681–7

Isolation and characterization of a cDNA encoding a Xenopus immunoglobulin binding protein, BiP (grp78). Miskovic D, et al.

Comp Biochem Physiol B Biochem Mol Biol 1997 Feb; 116(2):227–34

Differences in the kinetics of T cell accumulations in C3H/HeN (Bcg–resistant) and C57BL/6 (Bcg–susceptible) mice infected with Mycobacterium paratuberculosis. Veazey RS, et al. **Comp Immunol Microbiol Infect Dis** 1996 Sep;19(4):289–304

Two tracks but one race? Cancer genetics. Sidransky D. **Curr Biol** 1996 May 1;6(5):523–5 (22 ref.)

Bone dysplasias in man: molecular insights. Francomano CA, et al. **Curr Opin Genet Dev** 1996 Jun;6(3):301–8 (57 ref.)

Molecular biology of phospholipid transfer protein. Albers JJ, et al. **Curr Opin Lipidol** 1996 Apr;7(2):88–93 (26 ref.)

Lipid metabolism [editorial] de Bruin TW. **Curr Opin Lipidol** 1995 Dec;6(6):U153–60

Atherosclerosis: cell biology and lipoproteins [editorial] Stocks J. **Curr Opin Lipidol** 1997 Aug;8(4):U56–7

Molecular genetics of plasma cholesteryl ester transfer protein. Yamashita S, et al. **Curr Opin Lipidol** 1997 Apr; 8(2):101–10 (76 ref.)

Gene therapy for head and neck cancer. Breau RL, et al. **Curr Opin Oncol** 1996 May;8(3):227–31 (33 ref.)

Assignment of cyclophilin A (PPIA) to human chromosome band 7p13by in situ hybridization. Braaten D, et al. **Cytogenet Cell Genet** 1996;74(4):262

Assignment of C1QBP encoding the C1q globular domain binding protein (gC1q–R) to human chromosome 17 band p13.3 by in situ hybridization. Guo N, et al. **Cytogenet Cell Genet** 1997;77(3–4):283–4

Comparative mapping of Na+–phosphate cotransporter genes, NPT1 and NPT2, in human and rabbit. Kos CH, et al. **Cytogenet Cell Genet** 1996;75(1):22–4

Cloning, expression and chromosomal mapping of a novel cyclophilin–related gene (PPIL1) from human fetal brain. Ozaki K, et al. **Cytogenet Cell Genet** 1996;72(2–3):242–5

Assignment of the gene for a ubiquitin–conjugating enzyme (UBE2I) to human chromosome band 16p13.3 by in situ hybridization. Tachibana M, et al. **Cytogenet Cell Genet** 1996;75(4):222–3

Isolation and mapping of karyopherin alpha 3 (KPNA3), a human gene that is highly homologous to genes encoding Xenopus importin, yeast SRP1 and human RCH1. Takeda S, et al. **Cytogenet Cell Genet** 1997;76(1–2):87–93

Assignment of the canalicular multispecific organic anion transporter gene (CMOAT) to human chromosome 10q24 and mouse chromosome 19D2 by fluorescent in situ hybridization. van Kuijck MA, et al. **Cytogenet Cell Genet** 1997;77(3–4):285–7

Assignment of the human creatine transporter type 2 (SLC6A10) to chromosome band 16p11.2 by in situ hybridization. Xu W, et al. **Cytogenet Cell Genet** 1997; 76(1–2):19

Assignment of renal–specific Na(+)–phosphate cotransporter gene Slc17a2 to mouse chromosome band 13B by in situ hybridization. Zhang XX, et al. **Cytogenet Cell Genet** 1997; 77(3–4):304–5

Assignment of renal specific Na(+)–phosphate cotransporter gene Slc17a1 to mouse chromosome bands 13A3—>A4 by in situ hybridization. Zhang XX, et al. **Cytogenet Cell Genet** 1997;76(3–4):180

Control of transcriptional activation of the lipopolysaccharide binding protein (LBP) gene by proinflammatory cytokines. Kirchning C, et al. **Cytokines Cell Mol Ther** 1997 Mar;3(1):59–62 (33 ref.)

Protease nexin–1 is expressed at the mouse met–/mesencephalic junction and FGF signaling regulates its promoter activity in primary met–/mesencephalic cells. Küry P, et al. **Development** 1997 Mar;124(6):1251–62

Examination of the function of two kelch proteins generated by stop codon suppression. Robinson DN, et al. **Development** 1997 Apr;124(7):1405–17

A population association study of four candidate genes (hexokinase II, glucagon–like peptide–1 receptor, fatty acid binding protein–2, and apolipoprotein C–II) with type 2 diabetes and impaired glucose tolerance in Japanese subjects. Yagi T, et al. **Diabet Med** 1996 Oct;13(10):902–7

Exonic and intronic sequence variation in the human leptin receptor gene (LEPR). Chung WK, et al. **Diabetes** 1997 Sep;46(9):1509–11

Expression of the functional leptin receptor mRNA in pancreatic islets and direct inhibitory action of leptin on insulin secretion. Emilsson V, et al. **Diabetes** 1997 Feb; 46(2):313–6

Cloning and characterization of an uncoupling protein homolog: a potential molecular mediator of human thermogenesis. Gimeno RE, et al. **Diabetes** 1997 May; 46(5):900–6

Leptin suppression of insulin secretion by the activation of ATP–sensitive K+ channels in pancreatic beta–cells. Kieffer TJ, et al. **Diabetes** 1997 Jun;46(6):1087–93

The Ala54Thr polymorphism of the fatty acid binding protein 2 gene does not influence insulin sensitivity in Finnish nondiabetic and NIDDM subjects. Rissanen J, et al. **Diabetes** 1997 Apr;46(4):711–2

Phenotype of the obese Koletsky (f) rat due to Tyr763Stop mutation in the extracellular domain of the leptin receptor (Lepr): evidence for deficient plasma–to–CSF transport of leptin in both the Zucker and Koletsky obese rat. Wu–Peng XS, et al. **Diabetes** 1997 Mar;46(3):513–8

Association between Ala54Thr substitution of the fatty acid–binding protein 2 gene with insulin resistance and intra–abdominal fat thickness in Japanese men. Yamada K, et al. **Diabetologia** 1997 Jun;40(6):706–10

Correlative immunohistochemistry and molecular genetic study of the inactivation of the p16INK4A genes in astrocytomas. Rao LS, et al. **Diagn Mol Pathol** 1997 Apr; 6(2):115–22

Dinucleotide repeat in the third intron of the FABP3/MDGI putative tumor suppressor gene. Arlt MF, et al. **Dis Markers** 1996 Aug;13(1):57–9

Cloning and characterization of two human polyspecific organic cation transporters. Gorboulev V, et al. **DNA Cell Biol** 1997 Jul;16(7):871–81

The transcriptional and translational control of diazepam binding inhibitor expression in rat male germ–line cells. Kolmer M, et al. **DNA Cell Biol** 1997 Jan;16(1):59–72

The human p167 gene encodes a unique structural protein that contains centrosomin A homology and associates with a multicomponent complex. Scholler JK, et al. **DNA Cell Biol** 1997 Apr;16(4):515–31

Enhanced expression in spleen macrophages of the mouse homolog to the human putative tumor suppressor gene ZFM1. Wrehlke C, et al. **DNA Cell Biol** 1997 Jun; 16(6):761–7

Identification and sequences of the Treponema pallidum flhA, flhF, and orf304 genes. Hardham JM, et al. **DNA Seq** 1997; 7(2):107–16

Organization and sequence of the human gene for the mitochondrial citrate transport protein. Iacobazzi V, et al. **DNA Seq** 1997;7(3–4):127–39

Identification and sequences of the Treponema pallidum mglA and mglC genes. Stamm LV, et al. **DNA Seq** 1996; 6(5):293–8

Leptin receptor mRNA is expressed in ewe anterior pituitary and adipose tissues and is differentially expressed in hypothalamic regions of well–fed and feed–restricted ewes. Dyer CJ, et al. **Domest Anim Endocrinol** 1997 Mar; 14(2):119–28

Characterization of two human flavin–containing monooxygenase (form 3) enzymes expressed in Escherichia coli as maltose binding protein fusions. Brunelle A, et al. **Drug Metab Dispos** 1997 Aug;25(8):1001–7

Expression of cDNA clones by coupled in vitro transcription/translation and transfection into COS–1 cells: protein mapping in two–dimensional gels. Madsen P, et al. **Electrophoresis** 1995 Dec;16(12):2258–61

The human homologue of yeast CRM1 is in a dynamic subcomplex with CAN/Nup214 and a novel nuclear pore component Nup88. Fornerod M, et al. **EMBO J** 1997 Feb 17;16(4):807–16

KARP–1: a novel leucine zipper protein expressed from the Ku86 autoantigen locus is implicated in the control of DNA–dependent protein kinase activity. Myung K, et al. **EMBO J** 1997 Jun 2;16(11):3172–84

Isolation and characterization of the rat corticotropin–releasing hormone (CRH)–binding protein gene: transcriptional regulation by cyclic adenosine monophosphate and CRH. Cortright DN, et al. **Endocrinology** 1997 May;138(5):2098–108

Expression of rat liver cell membrane transporters for thyroid hormone in Xenopus laevis oocytes. Docter R, et al. **Endocrinology** 1997 May;138(5):1841–6

Norepinephrine potentiates the mitogenic effect of growth factors in quiescent brown preadipocytes: relationship with uncoupling protein messenger ribonucleic acid expression. Garcia B, et al. **Endocrinology** 1997 Oct;138(10):4227–33

Expression and characterization of a putative high affinity human soluble leptin receptor. Liu C, et al. **Endocrinology** 1997 Aug;138(8):3548–54

Interactions among receptors, thyroid hormone response elements, and ligands in the regulation of the rat uncoupling protein gene expression by thyroid hormone. Rabelo R, et al. **Endocrinology** 1996 Aug;137(8):3478–87

A complex retinoic acid response element in the uncoupling protein gene defines a novel role for retinoids in thermogenesis. Rabelo R, et al. **Endocrinology** 1996 Aug; 137(8):3488–96

Iodide uptake and experimental 131I therapy in transplanted undifferentiated thyroid cancer cells expressing the Na+/I– symporter gene. Shimura H, et al. **Endocrinology** 1997 Oct;138(10):4493–6

Expression, exon–intron organization, and chromosome mapping of the human sodium iodide symporter. Smanik PA, et al. **Endocrinology** 1997 Aug;138(8):3555–8

The human gene for the regulatory subunit RI alpha of cyclic adenosine 3', 5'–monophosphate–dependent protein kinase: two distinct promoters provide differential regulation of alternately spliced messenger ribonucleic acids. Solberg R, et al. **Endocrinology** 1997 Jan;138(1):169–81

Human monocytes express amphiregulin and heregulin growth factors upon activation. Mograbi B, et al. **Eur Cytokine Netw** 1997 Mar;8(1):73–81

Rapid induction of the Grp78 gene by cooperative actions of okadaic acid and heat–shock in 9L rat brain tumor cells––involvement of a cAMP responsive element–like promoter sequence and a protein kinase A signaling pathway. Chen KD, et al. **Eur J Biochem** 1997 Aug 15; 248(1):120–9

Molecular cloning of the hamster CMP–sialic acid transporter. Eckhardt M, et al. **Eur J Biochem** 1997 Aug 15;248(1):187–92

Cloning and characterization of a testis–specific, developmentally regulated A–kinase–anchoring protein (TAKAP–80) present on the fibrous sheath of rat sperm. Mei X, et al. **Eur J Biochem** 1997 Jun 1;246(2):425–32

Widespread tissue expression of gastrin–binding–protein mRNA. Monstein HJ, et al. **Eur J Biochem** 1997 Jun 1; 246(2):502–7

Isolation, expression and characterization of the gene for an ADP–ribosylation factor from the human malaria parasite, Plasmodium falciparum. Stafford WH, et al. **Eur J Biochem** 1996 Nov 15;242(1):104–13

Myrosinase–binding proteins are derived from a large wound–inducible and repetitive transcript. Taipalensuu J, et al. **Eur J Biochem** 1997 Feb 1;243(3):605–11

Abnormalities of the P16INK4A gene in thyroid cancer cell lines [letter] Ivan M, et al. **Eur J Cancer** 1996 Dec; 32A(13):2369–70

Differentiation–dependent expression of heart type fatty acid–binding protein in C2C12 muscle cells. Rump R, et al. **Eur J Cell Biol** 1996 Feb;69(2):135–42

Threonine allele in codon 54 of the fatty acid binding protein 2 gene does not modify the fatty acid composition of serum lipids in obese subjects. Vidgren HM, et al. **Eur J Clin Invest** 1997 May;27(5):405–8

Regulation of the uncoupling protein gene expression. Silva JE, et al. **Eur J Endocrinol** 1997 Mar;136(3):251–64 (102 ref.)

Infrequent mutations of p16INK4A and p15INK4B genes in human pituitary adenomas. Yoshimoto K, et al. **Eur J Endocrinol** 1997 Jan;136(1):74–80

Expression of hsc 70, but not hsp 70, in human third molar dental pulp. Sens DA, et al. **Eur J Oral Sci** 1997 Jun; 105(3):271–7

Polymorphism of dopamine receptors and transporter genes in neuropsychiatric diseases. Fujiwara Y, et al. **Eur Neurol** 1997;38 Suppl 1:6–10

Analysis of the Rb gene and cyclin–dependent kinase 4 inhibitor genes (p16INK4 and p15INK4B) in human ovarian carcinoma cell lines. Yaginuma Y, et al. **Exp Cell Res** 1997 Jun 15;233(2):233–9

Hepatic canalicular membrane 5: Expression and localization of the conjugate export pump encoded by the MRP2 (cMRP/cMOAT) gene in liver. Keppler D, et al. **FASEB J** 1997 Jun;11(7):509–16 (39 ref.)

Isolation and characterization of a cDNA encoding a Translin–like protein, TRAX. Aoki K, et al. **FEBS Lett** 1997 Jan 20;401(2–3):109–12

Evidence for a novel regulatory pathway activated by (carba)prostacyclin in preadipose and adipose cells. Aubert J, et al. **FEBS Lett** 1996 Nov 11;397(1):117–21

Modulation of cholinergic locus expression by glucocorticoids and retinoic acid is cell–type specific. Berse B, et al. **FEBS Lett** 1997 Jun 30;410(2–3):175–9

Uncoupling protein–3: a new member of the mitochondrial carrier family with tissue–specific expression. Boss O, et al. **FEBS Lett** 1997 May 12;408(1):39–42

Identification of a second Mycobacterium tuberculosis gene cluster encoding proteins of an ABC phosphate transporter. Braibant M, et al. **FEBS Lett** 1996 Sep 30;394(2):206–12

Dramatic enhancement of the specific expression of the heart–type fatty acid binding protein in rat brown adipose tissue by cold exposure. Daikoku T, et al. **FEBS Lett** 1997 Jun 30;410(2–3):383–6

Molecular cloning and expression pattern of rpr–1, a resiniferatoxin–binding, phosphotriesterase–related protein, expressed in rat kidney tubules. Davies JA, et al. **FEBS Lett** 1997 Jun 30;410(2–3):378–82

Tissue–specific expression of the two isoforms of the mitochondrial phosphate carrier in bovine tissues. Dolce V, et al. **FEBS Lett** 1996 Dec 9;399(1–2):95–8

vesl, a gene encoding VASP/Ena family related protein, is upregulated during seizure, long–term potentiation and synaptogenesis. Kato A, et al. **FEBS Lett** 1997 Jul 21; 412(1):183–9

Structural, functional analysis and localization of the human CAP18 gene. Larrick JW, et al. **FEBS Lett** 1996 Nov 25; 398(1):74–80

The MBP fusion protein restores the activity of the first phosphatase domain of CD45. Lorenzo HK, et al. **FEBS Lett** 1997 Jul 14;411(2–3):231–5

Identification by bacterial expression and functional reconstitution of the yeast genomic sequence encoding the mitochondrial dicarboxylate carrier protein. Palmieri L, et al. **FEBS Lett** 1996 Dec 16;399(3):299–302

9–cis–retinoic acid enhances fatty acid–induced expression of the liver fatty acid–binding protein gene. Poirier H, et al. **FEBS Lett** 1997 Aug 4;412(3):480–4

Identification of the 4–hydroxyphenylacetate transport gene of Escherichia coli W: construction of a highly sensitive cellular biosensor. Prieto MA, et al. **FEBS Lett** 1997 Sep 8;414(2):293–7

Analysis of the promoter region of the murine gephyrin gene. Ramming M, et al. **FEBS Lett** 1997 Mar 24;405(2):137–40

Cloning and characterization of corA, a gene encoding a copper–repressible polypeptide in the type I methanotroph, Methylomicrobium albus BG8. Berson O, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):169–74

Helicobacter pylori genes hpcopA and hpcopP constitute a cop operon involved in copper export. Ge Z, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):181–8

Functional characterization of Schizosaccharomyces pombe genes cloned in potassium transport defective yeast strains. Lichtenberg–Fraté H, et al. **Folia Microbiol (Praha)** 1996; 41(1):105–6

Regulation of AAC isogenes encoding mitochondrial

ADP/ATP translocator in the yeast Saccharomyces cerevisiae. Sabová L, et al. **Folia Microbiol (Praha)** 1996; 41(1):124–6

A new congenital diarrhea gene [news] **Gastroenterology** 1997 Jul;113(1):3–4

Muddying the water: Wilson's disease challenges will not soon disappear [editorial; comment] Dufour JF, et al. **Gastroenterology** 1997 Jul;113(1):348–50. Comment on: Gastroenterology 1997 Jul;113(1):212–8.

Deletion analysis of the p16 tumor suppressor gene in gastrointestinal mucosa-associated lymphoid tissue lymphomas. Neumeister P, et al. **Gastroenterology** 1997 Jun; 112(6):1871–5

Human intestinal folate transport: cloning, expression, and distribution of complementary RNA. Nguyen TT, et al. **Gastroenterology** 1997 Mar;112(3):783–91

Isolation of a cDNA encoding the chicken homologue of the human calcium–modulating cyclophilin ligand. Bram RJ. **Gene** 1996 Oct 3;174(2):307–9

The role of the nodI and nodJ genes in the transport of Nod metabolites in Rhizobium etli. Cárdenas L, et al. **Gene** 1996 Sep 16;173(2):183–7

Sequence variation in the hpd gene of nonencapsulated Haemophilus influenzae isolated from patients with chronic bronchitis. Duim B, et al. **Gene** 1997 May 20;191(1):57–60

Nucleotide sequence of the gene coding for SEC14p in Candida (torulopsis) glabrata. Dundon W, et al. **Gene** 1997 Jul 1;193(1):115–8

Regulatory elements in the promoter region of the rat gene encoding the acyl–CoA–binding protein. Elholm M, et al. **Gene** 1996 Sep 16;173(2):233–8

Onchocerca volvulus: identification of cDNAs encoding a putative phosphatidyl–ethanolamine–binding protein and a putative partially processed mRNA precursor. Erttmann KD, et al. **Gene** 1996 Oct 3;174(2):203–7

Identification of Cdc45p, an essential factor required for DNA replication. Hardy CF. **Gene** 1997 Mar 18; 187(2):239–46

Structure of the gene encoding human colligin–2 (CBP2). Ikegawa S, et al. **Gene** 1997 Jul 31;194(2):301–3

Cloning and characterization of a cDNA encoding bovine mannan–binding protein. Kawai T, et al. **Gene** 1997 Feb 28;186(2):161–5

Structure and organization of the gene encoding human dopamine transporter. Kawarai T, et al. **Gene** 1997 Aug 11;195(1):11–8

Structure of the rat gene encoding the multifunctional acyl–CoA–binding protein: conservation of intron 1 sequences in rodents and man. Addendum. Krøll JB, et al. **Gene** 1996 Sep 16;173(2):239–40

Cloning, and molecular characterization of the GCV1 gene encoding the glycine cleavage T–protein from Saccharomyces cerevisiae. McNeil JB, et al. **Gene** 1997 Feb 20;186(1):13–20

Identification of two Xenopus laevis genes, xMCM2 and xCDC46, with sequence homology to MCM genes involved in DNA replication. Miyake S, et al. **Gene** 1996 Oct 10;175(1–2):71–5

Identification and cDNA cloning of a novel human mosaic protein, LGN, based on interaction with G alpha i2. Mochizuki N, et al. **Gene** 1996 Nov 28;181(1–2):39–43

Identification of a human heart FABP pseudogene located on chromosome 13. Prinsen CF, et al. **Gene** 1997 Jul 9; 193(2):245–51

Molecular characterization of a family of choline–binding proteins of Clostridium beijerinckii NCIB 8052. Evolution and gene redundancy in prokaryotic cell. Sánchez–Beato AR, et al. **Gene** 1996 Nov 21;180(1–2):13–21

The 5'–flanking region of the E1 alpha form of the murine p16INK4a (MTS1) gene. Soloff EV, et al. **Gene** 1996 Nov 21;180(1–2):213–5

Cloning and characterization of a Dictyostelium discoideum cDNA encoding a protein related to the medium chain subunit of clathrin–associated adaptor complexes. Temesvari LA, et al. **Gene** 1996 Dec 12;183(1–2):47–51

Organization, structure and alternate splicing of the murine RFC–1 gene encoding a folate transporter. Tolner B, et al. **Gene** 1997 Apr 11;189(1):1–7

Molecular cloning of higher plant homologues of the high–affinity nitrate transporters of Chlamydomonas reinhardtii and Aspergillus nidulans. Trueman LJ, et al. **Gene** 1996 Oct 10;175(1–2):223–31

Characterization of the mouse gene encoding phospholipid transfer protein. Tu AY, et al. **Gene** 1997 Mar 25; 188(1):115–8

A Shigella flexneri invasion plasmid gene, ipgH, with homology to IS629 and sequences encoding bacterial sugar phosphate transport proteins. Venkatesan MM, et al. **Gene** 1996 Oct 10;175(1–2):23–7

Cloning and characterization of the mouse tob gene. Yoshida Y, et al. **Gene** 1997 May 20;191(1):109–13

Frequent allele loss on 9p21–22 defines a smallest common region in the vicinity of the CDKN2 gene in sporadic breast cancer. An HX, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):14–20

Frequent homozygous deletion of cyclin–dependent kinase inhibitor 2 (MTS1, p16) in superficial bladder cancer detected by fluorescence in situ hybridization. Balázs M, et al. **Genes Chromosomes Cancer** 1997 Jun;19(2):84–9

Deletional, mutational, and methylation analyses of CDKN2 (p16/MTS1) in primary and metastatic prostate cancer. Jarrard DF, et al. **Genes Chromosomes Cancer** 1997 Jun; 19(2):90–6

FISH analysis of translocations involving the short arm of chromosome 9 in lymphoid malignancies. Leblanc T, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):273–7

Affected members of melanoma–prone families with linkage to 9p21 but lacking mutations in CDKN2A do not harbor mutations in the coding regions of either CDKN2B or p19ARF. Liu L, et al. **Genes Chromosomes Cancer** 1997 May;19(1):52–4

Compilation of somatic mutations of the CDKN2 gene in human cancers: non–random distribution of base substitutions. Pollock PM, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):77–88 (69 ref.)

Codeletion of the JUN proto–oncogene and the CDKN2A tumor–suppressor gene in HRAS–transformed rat embryo fibroblast cell lines. Zhou JN, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):82–9

Anemia and perinatal death result from loss of the murine ecotropic retrovirus receptor mCAT–1. Perkins CP, et al. **Genes Dev** 1997 Apr 1;11(7):914–25

BID: a novel BH3 domain–only death agonist. Wang K, et al. **Genes Dev** 1996 Nov 15;10(22):2859–69

Cloning and characterization of a 70 kd heat shock cognate (hsc70) gene from the zebrafish (Danio rerio). Graser RT, et al. **Genetica** 1996–97;98(3):273–6

Molecular characterization of two high affinity sulfate transporters in Saccharomyces cerevisiae. Cherest H, et al. **Genetics** 1997 Mar;145(3):627–35

The yeast BSD2–1 mutation influences both the requirement for phosphatidylinositol transfer protein function and derepression of phospholipid biosynthetic gene expression in yeast. Kagiwada S, et al. **Genetics** 1996 Jun;143(2):685–97

Isolation and analysis of the arg–13 gene of Neurospora crassa. Liu Q, et al. **Genetics** 1996 Jul;143(3):1163–74

Transposon–disruption of a maize nuclear gene, tha1, encoding a chloroplast SecA homologue: in vivo role of cp–SecA in thylakoid protein targeting. Voelker R, et al. **Genetics** 1997 Feb;145(2):467–78

Genomic structure of the human OB receptor and identification of two novel intronic microsatellites [letter] Chung WK, et al. **Genome Res** 1996 Dec;6(12):1192–9

Mapping of the OB receptor to 1p in a region of nonconserved gene order from mouse and rat to human. Chung WK, et al. **Genome Res** 1996 May;6(5):431–8

Bovine natural resistance associated macrophage protein 1 (Nramp1) gene. Feng J, et al. **Genome Res** 1996 Oct; 6(10):956–64

Resistance to salmonellosis in the chicken is linked to NRAMP1 and TNC. Hu J, et al. **Genome Res** 1997 Jul; 7(7):693–704

Localization of the Rab escort protein–2 (REP2) and inositol 1,4,5–trisphosphate 3–kinase (ITPKB) genes to mouse chromosome 1 by in situ hybridization and precision of the syntenic regions between mouse and human 1q42–q44. Barrat FJ, et al. **Genomics** 1997 Jul 1;43(1):111–3

The gene for calcium–modulating cyclophilin ligand (CAMLG) is located on human chromosome 5q23 and a syntenic region of mouse chromosome 13. Bram RJ, et al. **Genomics** 1996 Jan 15;31(2):257–60

Genomic organization of the mottled gene, the mouse homologue of the human Menkes disease gene. Cecchi C, et al. **Genomics** 1996 Oct 1;37(1):96–104

Cloning and characterization of the human lectin P35 gene and its related gene. Endo Y, et al. **Genomics** 1996 Sep 15;36(3):515–21

Chromosomal localization of genes encoding CAN/Nup214–interacting proteins—human CRM1 localizes to 2p16, whereas Nup88 localizes to 17p13 and is physically linked to SF2p32. Fornerod M, et al. **Genomics** 1997 Jun 15;42(3):538–40

The dopamine transporter protein gene (SLC6A3): primary linkage mapping and linkage studies in Tourette syndrome. Gelernter J, et al. **Genomics** 1995 Dec 10;30(3):459–63

Cloning, genomic organization, and chromosomal localization of human citrate transport protein to the DiGeorge/velocardiofacial syndrome minimal critical region. Goldmuntz E, et al. **Genomics** 1996 Apr 15; 33(2):271–6

Molecular cloning, tissue distribution, and chromosomal localization of human cationic amino acid transporter 2 (HCAT2). Hoshide R, et al. **Genomics** 1996 Dec 1; 38(2):174–8

Identification of a testis–expressed creatine transporter gene at 16p11.2 and confirmation of the X–linked locus to Xq28. Iyer GS, et al. **Genomics** 1996 May 15;34(1):143–6

Localization of the rhotekin gene RTKN on the physical maps of mouse chromosome 6 and human chromosome 2p13 and exclusion as a candidate for mnd2 and LGMD2B. Jang W, et al. **Genomics** 1997 Mar 15;40(3):506–7

The human HIV–1 Rev binding–protein hRIP/Rab (HRB) maps to chromosome 2q36. Jones T, et al. **Genomics** 1997 Feb 15;40(1):198–9

Midkine gene and the m4 muscarinic acid receptor gene are linked on mouse chromosome 2. Kha H, et al. **Genomics** 1996 Oct 15;37(2):242–4

The organization of the human gene NCX1 encoding the sodium–calcium exchanger. Kraev A, et al. **Genomics** 1996 Oct 1;37(1):105–12

Phospholipid transfer protein maps to distal mouse chromosome 2. LeBoeuf RC, et al. **Genomics** 1996 Jun 1; 34(2):259–60

Molecular cloning, expression pattern, and chromosomal localization of the human Na–Cl thiazide–sensitive cotransporter (SLC12A3). Mastroianni N, et al. **Genomics** 1996 Aug 1;35(3):486–93

Mouse microsomal triglyceride transfer protein large subunit: cDNA cloning, tissue–specific expression and chromosomal localization. Nakamuta M, et al. **Genomics** 1996 Apr 15;33(2):313–6

Human TNF receptor–associated factor 5 (TRAF5): cDNA cloning, expression and assignment of the TRAF5 gene to chromosome 1q32. Nakano H, et al. **Genomics** 1997 May 15;42(1):26–32

The Bin1 gene localizes to human chromosome 2q14 by PCR analysis of somatic cell hybrids and fluorescence in situ hybridization. Negorev D, et al. **Genomics** 1996 Apr 15; 33(2):329–31

Mouse and human neuronal pentraxin 1 (NPTX1): conservation, genomic structure, and chromosomal localization. Omeis IA, et al. **Genomics** 1996 Sep 15; 36(3):543–5

The human mammary–derived growth inhibitor (MDGI) gene: genomic structure and mutation analysis in human breast tumors [published erratum appears in Genomics 1996 Sep 1;36(2):377] Phelan CM, et al. **Genomics** 1996 May 15;34(1):63–8

Genomic organization of SLC3A1, a transporter gene mutated in cystinuria. Pras E, et al. **Genomics** 1996 Aug 15;36(1):163–7

Assignment of the human adipocyte fatty acid–binding protein gene (FABP4) to chromosome 8q21 using somatic cell hybrid and fluorescence in situ hybridization techniques. Prinsen CF, et al. **Genomics** 1997 Feb 15; 40(1):207–9

Genomic structure and organization of the human rBAT gene (SLC3A1). Purroy J, et al. **Genomics** 1996 Oct 15; 37(2):249–52

UBL1, a human ubiquitin–like protein associating with human RAD51/RAD52 proteins. Shen Z, et al. **Genomics** 1996 Sep 1;36(2):271–9

Gene assignment, expression, and homology of human tropomodulin. Sung LA, et al. **Genomics** 1996 May 15; 34(1):92–6

A physical map at 1p31 encompassing the acute insulin response locus and the leptin receptor. Thompson DB, et al. **Genomics** 1997 Jan 15;39(2):227–30

Tissue distribution, genomic structure, and chromosome mapping of mouse and human eukaryotic initiation factor 4E–binding proteins 1 and 2. Tsukiyama–Kohara K, et al. **Genomics** 1996 Dec 15;38(3):353–63

Efficient detection of mutations in Wilson disease by manifold sequencing. Waldenström E, et al. **Genomics** 1996 Nov 1; 37(3):303–9

Identification of microsatellite markers linked to the human leptin receptor gene on chromosome 1. Winick JD, et al. **Genomics** 1996 Aug 15;36(1):221–2

The structure and complete nucleotide sequence of the human cyclophilin 40 (PPID) gene. Yokoi H, et al. **Genomics** 1996 Aug 1;35(3):448–55

Characterization of two mannose–binding protein cDNAs from rhesus monkey (Macaca mulatta): structure and evolutionary implications. Mogues T, et al. **Glycobiology** 1996 Jul;6(5):543–50

p16INK4 and p15INK4B alterations in primary gynecologic malignancy. Wong YF, et al. **Gynecol Oncol** 1997 May; 65(2):319–24

Frequency of mutation and deletion of the tumor suppressor gene CDKN2A (MTS1/p16) in hepatocellular carcinoma from an Australian population. Biden K, et al. **Hepatology** 1997 Mar;25(3):593–7

Germ–line mutations of the p16INK4(MTS1) gene occur in a subset of patients with hepatocellular carcinoma. Chaubert P, et al. **Hepatology** 1997 Jun;25(6):1376–81

Inactivation of p16INK4 in hepatocellular carcinoma. Hui AM, et al. **Hepatology** 1996 Sep;24(3):575–9

Induction of cMrp/cMoat gene expression by cisplatin, 2–acetylaminofluorene, or cycloheximide in rat hepatocytes. Kauffmann HM, et al. **Hepatology** 1997 Oct; 26(4):980–5

Identification and functional characterization of the promoter region of the human organic anion transporting polypeptide gene. Kullak–Ublick GA, et al. **Hepatology** 1997 Oct; 26(4):991–7

A mutation in the human canalicular multispecific organic anion transporter gene causes the Dubin–Johnson syndrome. Paulusma CC, et al. **Hepatology** 1997 Jun; 25(6):1539–42

Evidence that reduced leptin levels, but not an aberrant sequence of leptin or its receptor, contribute to the obesity syndrome in NON mice. Igel M, et al. **Horm Metab Res** 1996 Dec;28(12):669–73

Distinct sexual dimorphism in the effect of hypothyroidism on the expression of the growth hormone receptor and growth hormone–binding protein gene in rat liver. Romero GS, et al. **Horm Res** 1996;45(6):273–8

Adenovirus–mediated delivery of human kallistatin gene reduces blood pressure of spontaneously hypertensive rats. Chen LM, et al. **Hum Gene Ther** 1997 Feb 10;8(3):341–7

Human cationic amino acid transporter gene hCAT–2 is assigned to 8p22 but is not the causative gene in lysinuric protein intolerance. Lauteala T, et al. **Hum Genet** 1997 Jul; 100(1):80–3

Exclusion of ZFM1 as a candidate gene for multiple endocrine neoplasia type 1 (MEN1). Lloyd SE, et al.

Hum Genet 1997 May;99(5):585–9
Phenotypic and genotypic overlap between atelosteogenesis type 2 and diastrophic dysplasia. Rossi A, et al. **Hum Genet** 1996 Dec;98(6):657–61
The mottled mouse as a model for human Menkes disease: identification of mutations in the Atp7a gene. Cecchi C, et al. **Hum Mol Genet** 1997 Mar;6(3):425–33
Duplication of a gene-rich cluster between 16p11.1 and Xq28: a novel pericentromeric-directed mechanism for paralogous genome evolution. Eichler EE, et al. **Hum Mol Genet** 1996 Jul;5(7):899–912
Leptin receptor gene variation and obesity: lack of association in a white British male population. Gotoda T, et al. **Hum Mol Genet** 1997 Jun;6(6):869–76
Molecular basis of the brindled mouse mutant (Mo(br)): a murine model of Menkes disease. Grimes A, et al. **Hum Mol Genet** 1997 Jul;6(7):1037–42
Developmental expression of the mouse mottled and toxic milk genes suggests distinct functions for the Menkes and Wilson disease copper transporters. Kuo YM, et al. **Hum Mol Genet** 1997 Jul;6(7):1043–9
A repeated element in the regulatory region of the MNK gene and its deletion in a patient with occipital horn syndrome. Levinson B, et al. **Hum Mol Genet** 1996 Nov; 5(11):1737–42
Mutation analysis provides additional proof that mottled is the mouse homologue of Menkes' disease. Reed V, et al. **Hum Mol Genet** 1997 Mar;6(3):417–23
The toxic milk mouse is a murine model of Wilson disease. Theophilos MB, et al. **Hum Mol Genet** 1996 Oct; 5(10):1619–24
Structure and sequence variation at the human leptin receptor gene in lean and obese Pima Indians. Thompson DB, et al. **Hum Mol Genet** 1997 May;6(5):675–9
Mouse choroideremia gene mutation causes photoreceptor cell degeneration and is not transmitted through the female germline. van den Hurk JA, et al. **Hum Mol Genet** 1997 Jun;6(6):851–8
Simultaneous genotyping for all three known structural mutations in the human mannose-binding lectin gene. Jack D, et al. **Hum Mutat** 1997;9(1):41–6
24 bp deletion and Ala1278 to Val mutation of the ATP7B gene in a Sardinian family with Wilson disease. Orrù S, et al. **Hum Mutat** 1997;10(1):84–5
Novel mutations of the P gene in type II oculocutaneous albinism (OCA2). Spritz RA, et al. **Hum Mutat** 1997; 10(2):175–7
Molecular basis of choroideremia (CHM): mutations involving the Rab escort protein-1 (REP-1) gene. van den Hurk JA, et al. **Hum Mutat** 1997;9(2):110–7 (54 ref.)
Isolation from a human seminal vesicle library of the cDNA for gp17, a CD4 binding factor. Autiero M, et al. **Immunogenetics** 1997;46(4):345–8
The Nramp1 antimicrobial resistance gene segregates independently of resistance to virulent Mycobacterium tuberculosis. Medina E, et al. **Immunology** 1996 Aug; 88(4):479–81
The in vivo antibody response against exogenous antigens is not influenced by the mouse Bcg (Nramp1) gene. Sirová M, et al. **Immunology** 1997 Apr;90(4):626–31
Nramp1 transfection transfers Ity/Lsh/Bcg-related pleiotropic effects on macrophage activation: influence on antigen processing and presentation. Lang T, et al. **Infect Immun** 1997 Feb;65(2):380–6
Molecular characterization of a heme-binding protein of Bacteroides fragilis BE1. Otto BR, et al. **Infect Immun** 1996 Oct;64(10):4345–50
Cloning and sequence analysis of the gbpC gene encoding a novel glucan-binding protein of Streptococcus mutans. Sato Y, et al. **Infect Immun** 1997 Feb;65(2):668–75
Identification, characterization, and expression of the BiP endoplasmic reticulum resident chaperonins in Pneumocystis carinii. Stedman TT, et al. **Infect Immun** 1996 Nov;64(11):4463–71
Role of alphabeta and gammadelta T cells in the host response to Salmonella infection as demonstrated in T-cell-receptor-deficient mice of defined Ity genotypes. Weintraub BC, et al. **Infect Immun** 1997 Jun;65(6):2306–12
Binding proteins from the antennae of Bombyx mori. Krieger J, et al. **Insect Biochem Mol Biol** 1996 Mar;26(3):297–307
The precursor protein of the structural apolipoproteins of lipophorin: cDNA and deduced amino acid sequence. Sundermeyer K, et al. **Insect Biochem Mol Biol** 1996 Sep-Oct;26(8–9):735–8
Frequent detection of aberrant RNA transcripts of the CDKN2 gene in human gastric adenocarcinoma. Chen YJ, et al. **Int J Cancer** 1997 May 2;71(3):350–4
Alteration of p16 and p15 genes in common epithelial ovarian tumors. Fujita M, et al. **Int J Cancer** 1997 Apr 22; 74(2):148–55
Molecular analysis of the cyclin-dependent kinase inhibitor genes p15INK4b/MTS2, p16INK4/MTS1, p18 and p19 in human cancer cell lines. Gemma A, et al. **Int J Cancer** 1996 Nov 27;68(5):605–11
Mutations and polymorphisms in the p53, p21 and p16 genes in oral carcinomas of Indian betel quid chewers. Heinzel PA, et al. **Int J Cancer** 1996 Nov 15;68(4):420–3
Frequent loss of heterozygosity in early non-small cell lung cancers at chromosome 9p21 proximal to the CDKN2a gene. Mead LJ, et al. **Int J Cancer** 1997 Apr 10;71(2):213–7
Reduced folate carrier gene (RFC1) expression and anti-folate resistance in transfected and non-selected cell lines. Moscow JA, et al. **Int J Cancer** 1997 Jul 3; 72(1):184–90
Loss of heterozygosity on chromosome 9 and p16 (MTS1, CDKN2) gene mutations in esophageal cancers. Muzeau F, et al. **Int J Cancer** 1997 Jul 3;72(1):27–30
p16/CDKN2 and CDK4 gene mutations in sporadic melanoma development and progression. Piccinin S, et al. **Int J Cancer** 1997 Feb 20;74(1):26–30
Rare mutations and no hypermethylation at the CDKN2A locus in epithelial ovarian tumours. Shih YC, et al. **Int J Cancer** 1997 Mar 4;70(5):508–11
Homozygous deletions of p16(INK4) occur frequently in bilharziasis-associated bladder cancer. Tamimi Y, et al. **Int J Cancer** 1996 Oct 9;68(2):183–7
Transgenic mice expressing human phospholipid transfer protein have increased HDL/non-HDL cholesterol ratio. Albers JJ, et al. **Int J Clin Lab Res** 1996;26(4):262–7
No evidence for linkage between leprosy susceptibility and the human natural resistance-associated macrophage protein 1 (NRAMP1) gene in French Polynesia. Roger M, et al. **Int J Lepr Other Mycobact Dis** 1997 Jun; 65(2):197–202
Additive effect of A-->G (-3826) variant of the uncoupling protein gene and the Trp64Arg mutation of the beta 3-adrenergic receptor gene on weight gain in morbid obesity. Clément K, et al. **Int J Obes Relat Metab Disord** 1996 Dec;20(12):1062–6
Polymorphisms of uncoupling protein (UCP) and beta 3 adrenoreceptor genes in obese people submitted to a low calorie diet. Fumeron F, et al. **Int J Obes Relat Metab Disord** 1996 Dec;20(12):1051–4
Three cases of Gitelman's syndrome possibly caused by different mutations in the thiazide-sensitive Na-Cl cotransporter. Takeuchi K, et al. **Intern Med** 1997 Aug; 36(8):582–5
Disease expression in X-linked retinitis pigmentosa caused by a putative null mutation in the RPGR gene. Jacobson SG, et al. **Invest Ophthalmol Vis Sci** 1997 Sep; 38(10):1983–97
Dopamine D2, D3 and D4 receptor and transporter gene polymorphisms and mood disorders. Manki H, et al. **J Affect Disord** 1996 Sep 9;40(1–2):7–13
Role of conserved peptide in taurine transporter inactivation modulated by protein kinase C. Han X, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2088–96
Gitelman's syndrome (Bartter's variant) maps to the thiazide-sensitive cotransporter gene locus on chromosome 16q13 in a large kindred. Pollak MR, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2244–8
Expression of the conjugate export pump encoded by the mrp2 gene in the apical membrane of kidney proximal tubules. Schaub TP, et al. **J Am Soc Nephrol** 1997 Aug; 8(8):1213–21
Rapid communication: cloning of a pig full-length natural resistance associated macrophage protein (NRAMP1) cDNA. Tuggle CK, et al. **J Anim Sci** 1997 Jan;75(1):277
Utilization of orotate as a pyrimidine source by Salmonella typhimurium and Escherichia coli requires the dicarboxylate transport protein encoded by dctA. Baker KE, et al. **J Bacteriol** 1996 Dec;178(24):7099–105
dacD, an Escherichia coli gene encoding a novel penicillin-binding protein (PBP6b) with DD-carboxypeptidase activity. Baquero MR, et al. **J Bacteriol** 1996 Dec;178(24):7106–11
An lrp-like gene of Bacillus subtilis involved in branched-chain amino acid transport. Belitsky BR, et al. **J Bacteriol** 1997 Sep;179(17):5448–57
An Escherichia coli host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer. Bhandari P, et al. **J Bacteriol** 1997 Jul; 179(13):4403–6
Secondary transporters for citrate and the Mg(2+)-citrate complex in Bacillus subtilis are homologous proteins. Boorsma A, et al. **J Bacteriol** 1996 Nov;178(21):6216–22
Characterization of cspB, a cold-shock-inducible gene from Lactococcus lactis, and evidence for a family of genes homologous to the Escherichia coli cspA major cold shock gene. Chapot-Chartier MP, et al. **J Bacteriol** 1997 Sep; 179(17):5589–93
Transcription analysis of the Staphylococcus aureus gene encoding penicillin-binding protein 4. Domanski TL, et al. **J Bacteriol** 1997 Apr;179(8):2651–7
TRAP transporters: a new family of periplasmic solute transport systems encoded by the dctPQM genes of Rhodobacter capsulatus and by homologs in diverse gram-negative bacteria. Forward JA, et al. **J Bacteriol** 1997 Sep;179(17):5482–93
A positive control mutant of the transcription activator protein FIS. Gosink KK, et al. **J Bacteriol** 1996 Sep; 178(17):5182–7
AmpC and AmpH, proteins related to the class C beta-lactamases, bind penicillin and contribute to the normal morphology of Escherichia coli. Henderson TA, et al. **J Bacteriol** 1997 Oct;179(19):6112–21
Critical base pairs and amino acid residues for protein-DNA interaction between the TyrR protein and tyrP operator of Escherichia coli. Hwang JS, et al. **J Bacteriol** 1997 Feb; 179(4):1051–8
A Corynebacterium glutamicum gene conferring multidrug resistance in the heterologous host Escherichia coli. Jäger W, et al. **J Bacteriol** 1997 Apr;179(7):2449–51
Three transport systems for the osmoprotectant glycine betaine operate in Bacillus subtilis: characterization of OpuD. Kappes RM, et al. **J Bacteriol** 1996 Sep; 178(17):5071–9
The rkpGHI and -J genes are involved in capsular polysaccharide production by Rhizobium meliloti. Kiss E, et al. **J Bacteriol** 1997 Apr;179(7):2132–40
Three different putative phosphate transport receptors are encoded by the Mycobacterium tuberculosis genome and are present at the surface of Mycobacterium bovis BCG. Lefèvre P, et al. **J Bacteriol** 1997 May;179(9):2900–6
MalFGK complex assembly and transport and regulatory characteristics of MalK insertion mutants. Lippincott J, et al. **J Bacteriol** 1997 Feb;179(4):1337–43
The MtrR repressor binds the DNA sequence between the mtrR and mtrC genes of Neisseria gonorrhoeae. Lucas CE, et al. **J Bacteriol** 1997 Jul;179(13):4123–8
Sequencing and expression of a gene encoding a bile acid transporter from Eubacterium sp. strain VPI 12708. Mallonee DH, et al. **J Bacteriol** 1996 Dec;178(24):7053–8
Identification and characterization of pbpA encoding Bacillus subtilis penicillin-binding protein 2A. Murray T, et al. **J Bacteriol** 1997 May;179(9):3021–9
bmr3, a third multidrug transporter gene of Bacillus subtilis. Ohki R, et al. **J Bacteriol** 1997 Feb;179(4):1423–7
Molecular analysis of a beta-lactam resistance gene encoded within the cephamycin gene cluster of Streptomyces clavuligerus. Paradkar AS, et al. **J Bacteriol** 1996 Nov; 178(21):6266–74
Isolation, characterization, and expression of the Corynebacterium glutamicum betP gene, encoding the transport system for the compatible solute glycine betaine. Peter H, et al. **J Bacteriol** 1996 Sep;178(17):5229–34
The pst operon of Bacillus subtilis has a phosphate-regulated promoter and is involved in phosphate transport but not in regulation of the pho regulon. Qi Y, et al. **J Bacteriol** 1997 Apr;179(8):2534–9
Transcription of Staphylococcus aureus fibronectin binding protein genes is negatively regulated by agr and an agr-independent mechanism. Saravia-Otten P, et al. **J Bacteriol** 1997 Sep;179(17):5259–63
Expression, inducer spectrum, domain structure, and function of MopR, the regulator of phenol degradation in Acinetobacter calcoaceticus NCIB8250. Schirmer F, et al. **J Bacteriol** 1997 Feb;179(4):1329–36
Fis is required for illegitimate recombination during formation of lambda bio transducing phage. Shanado Y, et al. **J Bacteriol** 1997 Jul;179(13):4239–45
Characterization of a mitomycin-binding drug resistance mechanism from the producing organism, Streptomyces lavendulae [published erratum appears in J Bacteriol 1997 Jun;179(12):4080] Sheldon PJ, et al. **J Bacteriol** 1997 Mar; 179(5):1796–804
The kdp system of Clostridium acetobutylicum: cloning, sequencing, and transcriptional regulation in response to potassium concentration. Treuner-Lange A, et al. **J Bacteriol** 1997 Jul;179(14):4501–12
Conjugal transfer of the 5-nitroimidazole resistance plasmid pIP417 from Bacteroides vulgatus BV-17: characterization and nucleotide sequence analysis of the mobilization region. Trinh S, et al. **J Bacteriol** 1996 Dec;178(23):6671–6
Promoters and transcripts associated with the aroP gene of Escherichia coli. Wang P, et al. **J Bacteriol** 1997 Jul; 179(13):4206–12
Repression of the aroP gene of Escherichia coli involves activation of a divergent promoter. Wang P, et al. **J Bacteriol** 1997 Jul;179(13):4213–8
Characterization of a periplasmic protein involved in iron utilization of Actinobacillus actinomycetemcomitans. Willemsen PT, et al. **J Bacteriol** 1997 Aug;179(15):4949–52
Cyclic AMP receptor protein functions as a repressor of the osmotically inducible promoter proP P1 in Escherichia coli. Xu J, et al. **J Bacteriol** 1997 Apr;179(7):2410–7
In vitro transcriptional analysis of TyrR-mediated activation of the mtr and tyrP+3 promoters of Escherichia coli. Yang J, et al. **J Bacteriol** 1996 Nov;178(21):6389–93
Bacillus subtilis SpoIIID protein binds to two sites in the spoVD promoter and represses transcription by sigmaE RNA polymerase. Zhang B, et al. **J Bacteriol** 1997 Feb; 179(3):972–5
Induction of Bip mRNA upon programmed cell death of differentiated PC12 cells as well as rat sympathetic neurons. Aoki T, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):122–7
Molecular cloning and characterization of a novel isoform of the human UDP-galactose transporter, and of related complementary DNAs belonging to the nucleotide-sugar transporter gene family. Ishida N, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1074–8
HSDJ, a human homolog of DnaJ, is farnesylated and is involved in protein import into mitochondria. Kanazawa M, et al. **J Biochem (Tokyo)** 1997 May;121(5):890–5
Human UDP-galactose translocator: molecular cloning of a complementary DNA that complements the genetic defect of a mutant cell line deficient in UDP-galactose translocator. Miura N, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):236–41
Identification and functional characterization of yeast zeta-COP. Yamazaki S, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):8–14
Molecular sites of regulation of expression of the rat cationic amino acid transporter gene. Aulak KS, et al. **J Biol Chem** 1996 Nov 22;271(47):29799–806
Cloning of cardiac, kidney, and brain promoters of the feline

ncx1 gene. Barnes KV, et al. **J Biol Chem** 1997 Apr 25; 272(17):11510–7

Characterization of the WW domain of human yes-associated protein and its polyproline-containing ligands. Chen HI, et al. **J Biol Chem** 1997 Jul 4;272(27):17070–7

Tissue kallikrein-binding protein reduces blood pressure in transgenic mice. Chen LM, et al. **J Biol Chem** 1996 Nov 1;271(44):27590–4

Transformation by ras suppresses expression of the neurotrophic growth factor pleiotrophin. Corbley MJ. **J Biol Chem** 1997 Sep 26;272(39):24696–702

Protein phosphorylation affects binding of the Escherichia coli transcription activator UhpA to the uhpT promoter. Dahl JL, et al. **J Biol Chem** 1997 Jan 17;272(3):1910–9

Isolation and characterization of a thiamin transport gene, THI10, from Saccharomyces cerevisiae. Enjo F, et al. **J Biol Chem** 1997 Aug 1;272(31):19165–70

Evidence for a role of the gut hormone PYY in the regulation of intestinal fatty acid-binding protein transcripts in differentiated subpopulations of intestinal epithelial cell hybrids. Halldén G, et al. **J Biol Chem** 1997 May 9; 272(19):12591–600

Reduction of trans-4,5-dihydroxy-1,2-dithiane by cellular oxidoreductases activates gadd153/chop and grp78 transcription and induces cellular tolerance in kidney epithelial cells. Halleck MM, et al. **J Biol Chem** 1997 Aug 29;272(35):21760–6

Cloning and characterization of a brain-specific cationic amino acid transporter. Hosokawa H, et al. **J Biol Chem** 1997 Mar 28;272(13):8717–22

Adaptive regulation of the cationic amino acid transporter-1 (Cat-1) in Fao cells. Hyatt SL, et al. **J Biol Chem** 1997 Aug 8;272(32):19951–7

A protein kinase Cdelta-binding protein SRBC whose expression is induced by serum starvation. Izumi Y, et al. **J Biol Chem** 1997 Mar 14;272(11):7381–9

Identification of a novel gene encoding the yeast mitochondrial dicarboxylate transport protein via overexpression, purification, and characterization of its protein product. Kakhniashvili D, et al. **J Biol Chem** 1997 Feb 14;272(7):4516–21

Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis. GRP78/BiP and novel genes. Kokame K, et al. **J Biol Chem** 1996 Nov 22; 271(47):29659–65

Essential cis-acting elements in rat uncoupling protein gene are in an enhancer containing a complex retinoic acid response domain. Larose M, et al. **J Biol Chem** 1996 Dec 6;271(49):31533–42

Molecular cloning and functional reconstitution of a urate transporter/channel. Leal-Pinto E, et al. **J Biol Chem** 1997 Jan 3;272(1):617–25

Molecular cloning and characterization of NKT, a gene product related to the organic cation transporter family that is almost exclusively expressed in the kidney. Lopez-Nieto CE, et al. **J Biol Chem** 1997 Mar 7; 272(10):6471–8

Monkey growth hormone (GH) receptor gene expression. Evidence for two mechanisms for the generation of the GH binding protein. Martini JF, et al. **J Biol Chem** 1997 Jul 25;272(30):18951–8

Molecular characterization of GCV3, the Saccharomyces cerevisiae gene coding for the glycine cleavage system hydrogen carrier protein. Nagarajan L, et al. **J Biol Chem** 1997 Feb 14;272(7):4444–50

Human cholesteryl ester transfer protein gene proximal promoter contains dietary cholesterol positive responsive elements and mediates expression in small intestine and periphery while predominant liver and spleen expression is controlled by 5'-distal sequences. Cis-acting sequences mapped in transgenic mice. Oliveira HCF, et al. **J Biol Chem** 1996 Dec 13;271(50):31831–8

Characterization of a leucine zipper-containing protein identified by retroviral insertion in avian neuroretina cells. Proux V, et al. **J Biol Chem** 1996 Nov 29;271(48):30790–7

A novel abetalipoproteinemia genotype. Identification of a missense mutation in the 97-kDa subunit of the microsomal triglyceride transfer protein that prevents complex formation with protein disulfide isomerase. Rehberg EF, et al. **J Biol Chem** 1996 Nov 22;271(47):29945–52

Mutants of rat intestinal fatty acid-binding protein illustrate the critical role played by enthalpy-entropy compensation in ligand binding. Richieri GV, et al. **J Biol Chem** 1997 Jul 4;272(27):16737–40

Calcium-sensitive transcriptional activation of the proximal CCAAT regulatory element of the grp78/BiP promoter by the human nuclear factor CBF/NF-Y. Roy B, et al. **J Biol Chem** 1996 Nov 15;271(46):28995–9002

Disruption of the gene encoding the acyl-CoA-binding protein (ACB1) perturbs acyl-CoA metabolism in Saccharomyces cerevisiae. Schjerling CK, et al. **J Biol Chem** 1996 Sep 13;271(37):22514–21

Cooperative binding of DctD to the dctA upstream activation sequence of Rhizobium meliloti is enhanced in a constitutively active truncated mutant. Scholl D, et al. **J Biol Chem** 1996 Oct 18;271(42):26435–42

Expression cloning and characterization of a novel multispecific organic anion transporter. Sekine T, et al. **J Biol Chem** 1997 Jul 25;272(30):18526–9

Suppressor and activator functions mediated by a repeated heptad sequence in the liver fatty acid-binding protein gene (Fabpl). Effects on renal, small intestinal, and colonic epithelial cell gene expression in transgenic mice. Simon TC, et al. **J Biol Chem** 1997 Apr 18;272(16):10652–63

CopY is a copper-inducible repressor of the Enterococcus hirae copper ATPases. Strausak D, et al. **J Biol Chem** 1997 Apr 4;272(14):8932–6

CHRC, encoding a chromoplast-specific carotenoid-associated protein, is an early gibberellic acid-responsive gene. Vishnevetsky M, et al. **J Biol Chem** 1997 Oct 3;272(40):24747–50

Cloning and functional expression of a brain peptide/histidine transporter. Yamashita T, et al. **J Biol Chem** 1997 Apr 11; 272(15):10205–11

Human breast cancer growth inhibited in vivo by a dominant negative pleiotrophin mutant. Zhang N, et al. **J Biol Chem** 1997 Jul 4;272(27):16733–6

The ZRT2 gene encodes the low affinity zinc transporter in Saccharomyces cerevisiae. Zhao H, et al. **J Biol Chem** 1996 Sep 20;271(38):23203–

Gene expression of the Na-Ca exchanger in cardiac hypertrophy. Menick DR, et al. **J Card Fa** 1996 Dec;2(4 Suppl):S69–76 (40 ref.)

Isolation, characterization, and chromosomal mapping of a novel cDNA clone encoding human selenium binding protein. Chang PW, et al. **J Cell Biochem** 1997 Feb; 64(2):217–24

GKAP, a novel synaptic protein that interacts with the guanylate kinase-like domain of the PSD-95/SAP90 family of channel clustering molecules. Kim E, et al. **J Cell Biol** 1997 Feb 10;136(3):669–78

ERS-24, a mammalian v-SNARE implicated in vesicle traffic between the ER and the Golgi. Paek I, et al. **J Cell Biol** 1997 Jun 2;137(5):1017–28

The yeast v-SNARE Vti1p mediates two vesicle transport pathways through interactions with the t-SNAREs Sed5p and Pep12p. von Mollard GF, et al. **J Cell Biol** 1997 Jun 30;137(7):1511–24

The yeast VPS5/GRD2 gene encodes a sorting nexin-1-like protein required for localizing membrane proteins to the late Golgi. Nothwehr SF, et al. **J Cell Sci** 1997 May;110 (Pt 9):1063–72

Structure/function studies on the pH-dependent actin-binding protein hisactophilin in Dictyostelium mutants. Stoeckelhuber M, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1825–35

Molecular cloning, over-expression, developmental regulation and immunolocalization of fragminP, a gelsolin-related actin-binding protein from Physarum polycephalum plasmodia. T'Jampens D, et al. **J Cell Sci** 1997 May;110 (Pt 10):1215–26

Message of nexin 1, a serine protease inhibitor, is accumulated in the follicular papilla during anagen of the hair cycle. Yu DW, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3867–74

Mapping of serotonin transporter messenger RNA-containing nerve cell populations in the cat brainstem. Charnay Y, et al. **J Chem Neuroanat** 1996 Apr; 10(2):93–100

Localization of two cholinergic markers, choline acetyltransferase and vesicular acetylcholine transporter in the central nervous system of the rat: in situ hybridization histochemistry and immunohistochemistry. Ichikawa T, et al. **J Chem Neuroanat** 1997 Jun;13(1):23–39

Expression of serotonin transporter mRNA in rat brain: presence in neuronal and non-neuronal cells and effect of paroxetine. Swan MC, et al. **J Chem Neuroanat** 1997 Jul; 13(2):71–6

Expression of genes encoding corticotropin-releasing factor (CRF), type 1 CRF receptor, and CRF-binding protein and localization of the gene products in the human ovary. Asakura H, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2720–5

Genetic variation of intestinal fatty acid-binding protein associated with variation in body mass in aboriginal Canadians. Hegele RA, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4334–7

Variants in the human intestinal fatty acid binding protein 2 gene in obese subjects. Sipiläinen R, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2629–32

Loss of chromosome arm 9p DNA and analysis of the p16 and p15 cyclin-dependent kinase inhibitor genes in human parathyroid adenomas. Tahara H, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3663–7

Association of a mutation in thiazide-sensitive Na-Cl cotransporter with familial Gitelman's syndrome. Takeuchi K, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4496–9

Regulation of the rat liver sodium-dependent bile acid cotransporter gene by prolactin. Mediation of transcriptional activation by Stat5. Ganguly TC, et al. **J Clin Invest** 1997 Jun 15;99(12):2906–14

Increased prebeta-high density lipoprotein, apolipoprotein AI, and phospholipid in mice expressing the human phospholipid transfer protein and human apolipoprotein AI transgenes. Jiang X, et al. **J Clin Invest** 1996 Nov 15; 98(10):2373–80

Primary bile acid malabsorption caused by mutations in the ileal sodium-dependent bile acid transporter gene (SLC10A2). Oelkers P, et al. **J Clin Invest** 1997 Apr 15; 99(8):1880–7

Novel splice donor site mutation in the cardiac myosin-binding protein-C gene in familial hypertrophic cardiomyopathy. Characterization Of cardiac transcript and protein. Rottbauer W, et al. **J Clin Invest** 1997 Jul 15;100(2):475–82

Point mutations in the ileal bile salt transporter cause leaks in the enterohepatic circulation leading to severe chronic diarrhea and malabsorption [editorial] Small DM. **J Clin Invest** 1997 Apr 15;99(8):1807–8 (14 ref.)

Expression of the bumetanide-sensitive Na-K-Cl cotransporter BSC2 is differentially regulated by fluid mechanical and inflammatory cytokine stimuli in vascular endothelium. Topper JN, et al. **J Clin Invest** 1997 Jun 15; 99(12):2941–9

Cloning and characterization of the urea transporter UT3: localization in rat kidney and testis. Tsukaguchi H, et al. **J Clin Invest** 1997 Apr 1;99(7):1506–15

Combinational detection of autolysin and penicillin-binding protein 2B genes of Streptococcus pneumoniae by PCR. Ubukata K, et al. **J Clin Microbiol** 1996 Mar;34(3):592–6

Deletions of p15 and/or p16 genes as a poor-prognosis factor in adult T-cell leukemia. Yamada Y, et al. **J Clin Oncol** 1997 May;15(5):1778–85

Embryonic and postnatal expression of four gamma-aminobutyric acid transporter mRNAs in the mouse brain and leptomeninges. Evans JE, et al. **J Comp Neurol** 1996 Dec 16;376(3):431–46

Barium influx mediated by the cardiac sodium-calcium exchanger in transfected Chinese hamster ovary cells. Condrescu M, et al. **J Gen Physiol** 1997 Jan;109(1):41–51

Paramyxovirus-induced syncytium cell formation is suppressed by a dominant negative fusion regulatory protein-1 (FRP-1)/CD98 mutated construct: an important role of FRP-1 in virus-induced cell fusion. Okamoto K, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):775–83

Assignment of the human organic anion transporting polypeptide (OATP) gene to chromosome 12p12 by fluorescence in situ hybridization. Kullak-Ublick GA, et al. **J Hepatol** 1996 Dec;25(6):985–7

Two-hybrid cloning of a gene encoding TNF receptor-associated protein 2, a protein that interacts with the intracellular domain of the type 1 TNF receptor: identity with subunit 2 of the 26S protease. Dunbar JD, et al. **J Immunol** 1997 May 1;158(9):4252–9

Genomic structure and mapping of human FADD, an intracellular mediator of lymphocyte apoptosis. Kim PK, et al. **J Immunol** 1996 Dec 15;157(12):5461–6

Effects of site-directed mutagenesis of basic residues (Arg 94, Lys 95, Lys 99) of lipopolysaccharide (LPS)-binding protein on binding and transfer of LPS and subsequent immune cell activation. Lamping N, et al. **J Immunol** 1996 Nov 15;157(10):4648–56

The outcome of the parasitic process initiated by Leishmania infantum in laboratory mice: a tissue-dependent pattern controlled by the Lsh and MHC loci. Leclercq V, et al. **J Immunol** 1996 Nov 15;157(10):4537–45

Restoration of CDKN2A into melanoma cells induces morphologic changes and reduction in growth rate but not anchorage-independent growth reversal. Castellano M, et al. **J Invest Dermatol** 1997 Jul;109(1):61–8

Further evidence for ultraviolet light induction of CDKN2 (p16INK4) mutations in sporadic melanoma in vivo [letter; comment] Herbst RA, et al. **J Invest Dermatol** 1997 Jun; 108(6):950. Comment on: J Invest Dermatol 1996 Sep;107(3):318–21.

Leptin, its receptor and obesity. Misra A, et al. **J Investig Med** 1996 Dec;44(9):540–8 (83 ref.)

Cell-specific and inducible Nramp1 gene expression in mouse macrophages in vitro and in vivo. Govoni G, et al. **J Leukoc Biol** 1997 Aug;62(2):277–86

A novel nonsense mutation (G181X) in the human cholesteryl ester transfer protein gene in Japanese hyperalphalipoproteinemic subjects. Arai T, et al. **J Lipid Res** 1996 Oct;37(10):2145–54

Expression and secretion of rabbit plasma cholesteryl ester transfer protein by Pichia pastoris. Kotake H, et al. **J Lipid Res** 1996 Mar;37(3):599–605

Allelic variation in the gene encoding the cholesteryl ester transfer protein is associated with variation in the plasma concentrations of cholesteryl ester transfer protein. McPherson R, et al. **J Lipid Res** 1996 Aug;37(8):1743–8

Molecular cloning and functional expression of cDNA encoding the pig plasma phospholipid transfer protein. Pussinen PJ, et al. **J Lipid Res** 1997 Jul;38(7):1473–81

Exon 10 skipping caused by intron 10 splice donor site mutation in cholesteryl ester transfer protein gene results in abnormal downstream splice site selection. Sakai N, et al. **J Lipid Res** 1996 Oct;37(10):2065–73

Linkage of rheumatoid arthritis to the candidate gene NRAMP1 on 2q35. Shaw MA, et al. **J Med Genet** 1996 Aug;33(8):672–7

Specific information concerning taxonomy, pathogenicity and methicillin resistance of staphylococci obtained by a multiplex PCR. Schmitz FJ, et al. **J Med Microbiol** 1997 Sep;46(9):773–8

The preprotein translocase of the inner mitochondrial membrane: evolutionary conservation of targeting and assembly of Tim17. Bömer U, et al. **J Mol Biol** 1996 Oct 4;262(4):389–95

Regulation of HU alpha and HU beta by CRP and FIS in Escherichia coli. Claret L, et al. **J Mol Biol** 1996 Oct 25; 263(2):126–39

On the role of the multiple regulatory elements involved in the activation of the Escherichia coli malEp promoter. Richet E. **J Mol Biol** 1996 Dec 20;264(5):852–62

Activation of RpoS-dependent proP P2 transcription by the Fis protein in vitro. Xu J, et al. **J Mol Biol** 1997 Jul 18;

270(3):346–59
The influence of the angiotensin I converting enzyme genotype in familial hypertrophic cardiomyopathy varies with the disease gene mutation. Tesson F, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):831–8
Differences in expression of sarcoplasmic reticulum Ca2+–ATPase and Na+–Ca2+ exchanger genes between adjacent and remote noninfarcted myocardium after myocardial infarction. Yoshiyama M, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):255–64
Cloning and characterization of a human leptin receptor using a biologically active leptin immunoadhesin. Luoh SM, et al. **J Mol Endocrinol** 1997 Feb;18(1):77–85
Deletion of the mouse GH-binding protein (mGHBP) mRNA polyadenylation and splicing sites does not abolish production of mGHBP. Zhou Y, et al. **J Mol Endocrinol** 1997 Aug;19(1):1–13
Relationships between bacterial drug resistance pumps and other transport proteins. Parish JH, et al. **J Mol Evol** 1996 Feb;42(2):281–93
Protease nexin I (PNI) in mouse brain is expressed from the same gene as in seminal vesicle. Citron BA, et al. **J Mol Neurosci** 1996 Fall;7(3):183–91
Screening for CDKN2A mutations in hereditary melanoma [editorial; comment] Goldstein AM, et al. **J Natl Cancer Inst** 1997 May 21;89(10):676–8 (33 ref.). Comment on: J Natl Cancer Inst 1997 May 21;89(10):697–702.
Screening of germline mutations in the CDKN2A and CDKN2B genes in Swedish families with hereditary cutaneous melanoma [see comments] Platz A, et al. **J Natl Cancer Inst** 1997 May 21;89(10):697–702. Comment in: J Natl Cancer Inst 1997 May 21;89(10):676–8.
Familial tumor syndrome associated with a germline nonfunctional p16INK4a allele. Yarbrough WG, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1489–91
Identification of serotonin transporter mRNA in rat platelets. Hranilović D, et al. **J Neural Transm** 1996;103(8–9):957–65
Functional promoter and polyadenylation site mapping of the human serotonin (5-HT) transporter gene. Heils A, et al. **J Neural Transm Gen Sect** 1995;102(3):247–54
alpha-Internexin is the only neuronal intermediate filament expressed in developing cerebellar granule neurons. Chien CL, et al. **J Neurobiol** 1996 Mar;29(3):304–18
Neuronal development in the Drosophila compound eye: photoreceptor cells R1, R6, and R7 fail to differentiate in the retina aberrant in pattern (rap) mutant. Karpilow JM, et al. **J Neurobiol** 1996 Oct;31(2):149–65
Dopamine transporter is required for in vivo MPTP neurotoxicity: evidence from mice lacking the transporter. Gainetdinov RR, et al. **J Neurochem** 1997 Sep;69(3):1322–5
Definition of a sequence unique in beta II spectrin required for its axon-specific interaction with fodaxin (A60). Hayes NV, et al. **J Neurochem** 1997 Apr;68(4):1686–95
Human serotonin transporter: regulation by the neuroprotective agent aurintricarboxylic acid and by epidermal growth factor. Kekuda R, et al. **J Neurochem** 1997 Apr;68(4):1443–50
Monoamine transporter gene expression in the central nervous system in diabetes mellitus. Petrisić MS, et al. **J Neurochem** 1997 Jun;68(6):2435–41
P16 deletion and mutation analysis in human brain tumors. Barker FG, et al. **J Neurooncol** 1997 Jan;31(1–2):17–23
Malignant astrocytomas with homozygous CDKN2/p16 gene deletions have higher Ki-67 proliferation indices. Ono Y, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1026–31
Detection of p16 gene deletions in gliomas: a comparison of fluorescence in situ hybridization (FISH) versus quantitative PCR. Perry A, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):999–1008
Determination of p53 mutations, EGFR overexpression, and loss of p16 expression in pediatric glioblastomas. Sure U, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):782–9
The effects of ovariectomy and estrogen replacement on trkA and choline acetyltransferase mRNA expression in the basal forebrain of the adult female Sprague-Dawley rat. McMillan PJ, et al. **J Neurosci** 1996 Mar 1;16(5):1860–5
Intracellular localization of heat shock mRNAs (hsc70 and hsp70) to neural cell bodies and processes in the control and hyperthermic rabbit brain. Foster JA, et al. **J Neurosci Res** 1996 Dec 15;46(6):652–65
Alterations of p16/CDKN2, p53 and ras genes in oral squamous cell carcinomas and premalignant lesions. Matsuda H, et al. **J Oral Pathol Med** 1996 May;25(5):232–8
Alterations of P16 (MTS1) in node-positive non-small cell lung carcinomas. Marchetti A, et al. **J Pathol** 1997 Feb; 181(2):178–82
Expression of human polyspecific renal organic cation transport activity in Xenopus laevis oocytes. Chun JK, et al. **J Pharm Sci** 1997 Jun;86(6):753–5
A dysfunctional allele of the mannose binding protein gene associates with systemic lupus erythematosus in a Spanish population. Davies EJ, et al. **J Rheumatol** 1997 Mar; 24(3):485–8
Linkage and association studies of the natural resistance associated macrophage protein 1 (NRAMP1) locus in rheumatoid arthritis. John S, et al. **J Rheumatol** 1997 Mar; 24(3):452–7
Analysis of the candidate gene NRAMP1 in the first 61 ARC National Repository families for rheumatoid arthritis. Shaw MA, et al. **J Rheumatol** 1997 Jan;24(1):212–4
Recent advances in the biochemical and molecular biological basis of cystinuria. Gitomer WL, et al. **J Urol** 1996 Dec; 156(6):1907–12 (33 ref.)
p16 (CDKN2/MTS1) gene deletions are rare in prostatic carcinomas in the United States and Japan. Mangold KA, et al. **J Urol** 1997 Mar;157(3):1117–20
Recombinant adeno-associated virus-mediated high-efficiency, transient expression of the murine cationic amino acid transporter (ecotropic retroviral receptor) permits stable transduction of human HeLa cells by ecotropic retroviral vectors. Bertran J, et al. **J Virol** 1996 Oct;70(10):6759–66
Cold-adapted poliovirus mutants bypass a postentry replication block. Dove AW, et al. **J Virol** 1997 Jun; 71(6):4728–35
Increased radiosensitivity of p16 gene-deleted human glioma cells after transfection with wild-type p16 gene. Miyakoshi J, et al. **Jpn J Cancer Res** 1997 Jan;88(1):34–8
Overexpression of integrin-associated protein (CD47) in rat kidney treated with a renal carcinogen, ferric nitrilotriacetate. Nishiyama Y, et al. **Jpn J Cancer Res** 1997 Feb;88(2):120–8
Decreased expression of the p16/MTS1 gene without mutation is frequent in human urinary bladder carcinomas. Asamoto M, et al. **Jpn J Clin Oncol** 1997 Feb;27(1):22–5
Characterization of organic ion transporters involved in renal excretion of xenobiotics. Okuda M, et al. **Jpn J Physiol** 1997;47 Suppl 1:S58–9
Genomic organization of a human cystine transporter gene (SLC3A1) and identification of novel mutations causing cystinuria. Endsley JK, et al. **Kidney Int** 1997 Jun; 51(6):1893–9
Regulation of the taurine transporter gene in the S3 segment of the proximal tubule. Matsell DG, et al. **Kidney Int** 1997 Sep;52(3):748–54
Expression of betaine transporter mRNA: its unique localization and rapid regulation in rat kidney. Miyai A, et al. **Kidney Int** 1996 Sep;50(3):819–27
Protease nexin 1 in the murine kidney: glomerular localization and up-regulation in glomerulopathies. Moll S, et al. **Kidney Int** 1996 Dec;50(6):1936–45
Active urea transport in the rat inner medullary collecting duct: functional characterization and initial expression cloning. Sands JM, et al. **Kidney Int** 1996 Jun;49(6):1611–4 (41 ref.)
Endothelial cells of the kidney vasa recta express the urea transporter HUT11. Xu Y, et al. **Kidney Int** 1997 Jan; 51(1):138–46
Mannose-binding protein and susceptibility to chronic hepatitis B infection. Ezekowitz A. **Lancet** 1996 Nov 23; 348(9039):1396–7
Susceptibility to HIV infection and progression of AIDS in relation to variant alleles of mannose-binding lectin. Garred P, et al. **Lancet** 1997 Jan 25;349(9047):236–40
Mannose-binding lectin alleles in a prospectively recruited UK population. The ALSPAC Study Team. Avon Longitudinal Study of Pregnancy and Childhood [letter] Mead R, et al. **Lancet** 1997 Jun 7;349(9066):1669–70
Mutation of gene of mannose-binding protein associated with chronic hepatitis B viral infection [see comments] Thomas HC, et al. **Lancet** 1996 Nov 23;348(9039):1417–9. Comment in: Lancet 1996 Nov 23;348(9039):1396–7.
Inactivation of the p15INK4B and p16INK4 genes in hematologic malignancies. Heyman M, et al. **Leuk Lymphoma** 1996 Oct;23(3–4):235–45 (161 ref.)
p16ink4a gene and hematological malignancies. Quesnel B, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):11–24 (126 ref.)
Role of the cyclin-dependent kinase 4 and 6 inhibitor gene family p15, p16, p18 and p19 in leukemia and lymphoma. Siebert R, et al. **Leuk Lymphoma** 1996 Nov;23(5–6):505–20 (107 ref.)
CDKN2 (MTS1/p16INK4A) gene alterations in hematological malignancies. Uchida T, et al. **Leuk Lymphoma** 1997 Feb;24(5–6):449–61 (71 ref.)
Shortened survival after relapse in T-cell acute lymphoblastic leukemia patients with p16/p15 deletions. Diccianni MB, et al. **Leuk Res** 1997 Jun;21(6):549–58
The commonly deleted region at 9p21–22 in lymphoblastic leukemias spans at least 400 kb and includes p16 but not p15 or the IFN gene cluster. Aguiar RC, et al. **Leukemia** 1997 Feb;11(2):233–8
Molecular analysis of cyclin-dependent kinase inhibitors in human leukemias. Hayette S, et al. **Leukemia** 1997 Oct; 11(10):1696–9
Recent progress in molecular mechanisms of leukemogenesis: the cyclin-dependent kinase 4-inhibitor gene in human leukemias. Hirai H, et al. **Leukemia** 1997 Apr;11 Suppl 3:358–60
Mutation of CDKN2 is infrequently detected in myelodysplastic syndrome [letter] Kaneko H, et al. **Leukemia** 1997 Aug;11(8):1391–2
Lack of ETV6 (TEL) gene rearrangements or p16INK4A/p15INK4B homozygous gene deletions in infant acute lymphoblastic leukemia. Maloney KW, et al. **Leukemia** 1997 Jul;11(7):979–83
Hypermethylation of a 5' CpG island of p16 is a frequent event in non-Hodgkin's lymphoma. Martinez-Delgado B, et al. **Leukemia** 1997 Mar;11(3):425–8
Cyclin-dependent kinase inhibitors in human neoplasms. Miller CW, et al. **Leukemia** 1997 Apr;11 Suppl 3:370–1
Genetic studies of childhood acute lymphoblastic leukemia with emphasis on p16, MLL, and ETV6 gene abnormalities: results of St Jude Total Therapy Study XII. Rubnitz JE, et al. **Leukemia** 1997 Aug;11(8):1201–6
Alterations of the cyclin-dependent kinase inhibitor p19 (INK4D) is rare in hematopoietic malignancies. Shiohara M, et al. **Leukemia** 1996 Dec;10(12):1897–900
Kallikrein binding protein (KBP) maps to rat chromosome 6 but does not cosegregate with blood pressure in a GH x BN cross. Chen A, et al. **Mamm Genome** 1997 Sep; 8(9):701–3
The leptin receptor gene (LEPR) maps to porcine chromosome 6. Ernst CW, et al. **Mamm Genome** 1997 Mar; 8(3):226
Genomic cloning and genetic mapping of the rat Nramp1 (Bcg) gene on chromosome 9. Ge L, et al. **Mamm Genome** 1996 Nov;7(11):856–7
Characterization, chromosomal localization, and genetic variation of the porcine heart fatty acid-binding protein gene. Gerbens F, et al. **Mamm Genome** 1997 May; 8(5):328–32
Partial conservation of the mammalian NRAMP1 syntenic group on chicken chromosome 7. Girard-Santosuosso O, et al. **Mamm Genome** 1997 Aug;8(8):614–6
Sequence variation and chromosomal mapping of the murine Cdkn2a tumor suppressor gene. Herzog CR, et al. **Mamm Genome** 1997 Jan;8(1):65–6
Mapping of the rat Ptn gene to chromosome 4. Hornum L, et al. **Mamm Genome** 1996 Dec;7(12):923–4
Localization of human and mouse N-ethylmaleimide-sensitive factor (NSF) gene: a two-domain member of the AAA family that is involved in membrane fusion. Hoyle J, et al. **Mamm Genome** 1996 Nov;7(11):850–2
Mapping of the Fas-associated factor 1 gene, Faf1, to mouse chromosome 4C6 by FISH. Kikyo N, et al. **Mamm Genome** 1997 Mar;8(3):224–5
Roct1, a rat polyspecific transporter gene for the excretion of cationic drugs, maps to chromosome 1q11–12 [published erratum appears in Mamm Genpome 1996 Aug;7(8):638] Koehler MR, et al. **Mamm Genome** 1996 Mar;7(3):247–8
Leptin receptor mutations in 129 db3J/db3J mice and NIH facp/facp rats. Lee G, et al. **Mamm Genome** 1997 Jun; 8(6):445–7
Multiple comparison of primary structure of the osmoregulatory Na+/myo-inositol cotransporter from bovine, human, and canine species. Mallee JJ, et al. **Mamm Genome** 1996 Mar;7(3):252
A serine-to-proline mutation in the copper-transporting P-type ATPase gene of the macular mouse. Mori M, et al. **Mamm Genome** 1997 Jun;8(6):407–10
Genes encoding the acetaminophen and selenium binding proteins map to mouse chromosome 3. Navarro CL, et al. **Mamm Genome** 1996 Dec;7(12):919–20
The leptin receptor (LEPR) gene maps to bovine chromosome 3q33. Pfister-Genskow M, et al. **Mamm Genome** 1997 Mar;8(3):227
The Lx1 gene maps to mouse chromosome 17 and codes for a protein that is homologous to glucose and polyspecific transmembrane transporters. Schweifer N, et al. **Mamm Genome** 1996 Oct;7(10):735–40
Localization of protease nexin-1 gene Spi4 between villin and acetylcholine receptor gamma genes on mouse Chromosome 1. Voss GC, et al. **Mamm Genome** 1996 Feb; 7(2):167–8
Linkage mapping of the Na-K-2Cl cotransporter gene (Slc12a1) to rat chromosome 3. Wang J, et al. **Mamm Genome** 1997 May;8(5):379
A Krox binding site regulates protease nexin-1 promoter activity in embryonic heart, cartilage and parts of the nervous system. Ernø H, et al. **Mech Dev** 1996 Dec; 60(2):139–50
Different alleles of the fcrA/mrp gene of Streptococcus pyogenes encode M-related proteins exhibiting an identical immunoglobulin-binding pattern. Krebs B, et al. **Med Microbiol Immunol (Berl)** 1996 May;185(1):39–47
Involvement of the p16INK4 (CDKN2) gene in familial melanoma. Naylor MF, et al. **Melanoma Res** 1996 Apr; 6(2):139–45 (93 ref.)
Constitutional alterations in p16 in patients with uveal melanoma. Wang X, et al. **Melanoma Res** 1996 Dec; 6(6):405–10
Genetics and molecular biology of beta-lactam-resistant pneumococci. Coffey TJ, et al. **Microb Drug Resist** 1995 Spring;1(1):29–34 (39 ref.)
Penicillin-binding proteins 2x and 2b as primary PBP targets in Streptococcus pneumoniae. Krauss J, et al. **Microb Drug Resist** 1996 Summer;2(2):183–6
Relatedness among penicillin-binding protein 2b genes of Streptococcus mitis, Streptococcus oralis, and Streptococcus pneumoniae. Potgieter E, et al. **Microb Drug Resist** 1995 Spring;1(1):35–42
The gene encoding for penicillin-binding protein 5 of Enterococcus faecalis is useful for development of a species-specific DNA probe. Robbi C, et al. **Microb Drug Resist** 1996 Summer;2(2):215–8
Mutants in the CtpA copper transporting P-type ATPase reduce virulence of Listeria monocytogenes. Francis MS, et al. **Microb Pathog** 1997 Feb;22(2):67–78
Amplification of a Streptomyces lividans 4.3 kb DNA element causes overproduction of a novel hypha- and vesicle-associated protein. Betzler M, et al. **Microbiology** 1997 Apr;143 (Pt 4):1243–52
Overlapping promoters modulate Fnr- and ArcA-dependent anaerobic transcriptional activation of the focApfl operon

in Escherichia coli. Kaiser M, et al. **Microbiology** 1997 Mar; 143 (Pt 3):775–83

An oligopeptide transport gene from Candida albicans. Lubkowitz MA, et al. **Microbiology** 1997 Feb;143 (Pt 2):387–96

IdiA, a 34 kDa protein in the cyanobacteria Synechococcus sp. strains PCC 6301 and PCC 7942, is required for growth under iron and manganese limitations. Michel KP, et al. **Microbiology** 1996 Sep;142 (Pt 9):2635–45

ScCypB is a novel second cytosolic cyclophilin from Streptomyces chrysomallus which is phylogenetically distant from ScCypA. Pahl A, et al. **Microbiology** 1997 Jan;143 (Pt 1):117–26

Computer–based analyses of the protein constituents of transport systems catalysing export of complex carbohydrates in bacteria. Paulsen IT, et al. **Microbiology** 1997 Aug;143 (Pt 8):2685–99

Analysis of a Rhizobium leguminosarum gene encoding a protein homologous to glutathione S–transferases. Tawfiq Alkafaf NK, et al. **Microbiology** 1997 Mar;143 (Pt 3):813–22

Purification of two Bacillus subtilis proteins which cross–react with antibodies directed against eukaryotic protein kinase C, the His HPr kinase and trigger factor. Zouari N, et al. **Microbiology** 1997 Apr;143 (Pt 4):1151–61

The origin of the antiseptic–resistance gene ebr in Staphylococcus aureus. Sasatsu M, et al. **Microbios** 1995; 84(340):161–9

p16 (CDKN2/cyclin–dependent kinase–4 inhibitor/multiple tumor suppressor–1) gene is not altered in uterine cervical carcinomas or cell lines. Hirama T, et al. **Mod Pathol** 1996 Jan;9(1):26–31

Genetic polymorphism of the Duffy receptor binding domain of Plasmodium vivax in Colombian wild isolates. Ampudia E, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):269–72

Molecular characterization of a Plasmodium falciparum gene encoding the mitochondrial phosphate carrier. Bhaduri–McIntosh S, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):297–301

Genetic restriction in two conserved regions of Plasmodium falciparum EBA–1751t. Carrillo EF, et al. **Mol Biochem Parasitol** 1997 Apr;85(2):255–8

Identification of a family of Rab G–proteins in Plasmodium falciparum and a detailed characterisation of pfrab6. de Castro FA, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):77–88

Analysis of a cation–transporting ATPase of Plasmodium falciparum. Dyer M, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):1–12

Erythrocyte binding protein homologues of rodent malaria parasites. Kappe SH, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):137–48

Sequence conservation of schistosome cyclophilins. Klinkert MQ, et al. **Mol Biochem Parasitol** 1996 Oct 30;81(2):239–42

Conservation of structure and function of the erythrocyte–binding domain of Plasmodium falciparum EBA–175. Liang H, et al. **Mol Biochem Parasitol** 1997 Feb; 84(2):241–5

A stage regulated cyclophilin gene from Theileria annulata. Swan DG, et al. **Mol Biochem Parasitol** 1996 Oct 18; 81(1):111–4

Isolation and molecular characterization of mRNA transport mutants in Schizosaccharomyces pombe. Azad AK, et al. **Mol Biol Cell** 1997 May;8(5):825–41

A sorting nexin–1 homologue, Vps5p, forms a complex with Vps17p and is required for recycling the vacuolar protein–sorting receptor. Horazdovsky BF, et al. **Mol Biol Cell** 1997 Aug;8(8):1529–41

Multilamellar endosome–like compartment accumulates in the yeast vps28 vacuolar protein sorting mutant. Rieder SE, et al. **Mol Biol Cell** 1996 Jun;7(6):985–99

Sec31 encodes an essential component of the COPII coat required for transport vesicle budding from the endoplasmic reticulum. Salama NR, et al. **Mol Biol Cell** 1997 Feb;8(2):205–17

Mutational analysis of the p16 gene in human neuroblastomas. Castresana JS, et al. **Mol Carcinog** 1997 Mar;18(3):129–33

Alterations of the p16INK4A gene in human ovarian cancers. Kanuma T, et al. **Mol Carcinog** 1997 Mar;18(3):134–41

Frequent inactivation of the p16 gene in human pituitary tumors by gene methylation. Woloschak M, et al. **Mol Carcinog** 1997 Aug;19(4):221–4

Molecular cloning, sequencing and expression analysis of a fatty acid transport gene in rat heart induced by ischemic preconditioning and oxidative stress. Maulik N, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:241–7

Involvement of AP–2 in regulation of the R–FABP gene in the developing chick retina. Bisgrove DA, et al. **Mol Cell Biol** 1997 Oct;17(10):5935–45

A novel repressor, par–4, modulates transcription and growth suppression functions of the Wilms' tumor suppressor WT1. Johnstone RW, et al. **Mol Cell Biol** 1996 Dec; 16(12):6945–56

Induction of the mammalian GRP78/BiP gene by Ca2+ depletion and formation of aberrant proteins: activation of the conserved stress–inducible grp core promoter element by the human nuclear factor YY1. Li WW, et al. **Mol Cell Biol** 1997 Jan;17(1):54–60

Suppression of grp78 core promoter element–mediated stress induction by the dbpA and dbpB (YB–1) cold shock domain proteins. Li WW, et al. Mol Cell Biol 1997 Jan; 17(1):61–8

Isolation and functional analysis of a cDNA for human Jagged2, a gene encoding a ligand for the Notch1 receptor. Luo B, et al. **Mol Cell Biol** 1997 Oct;17(10):6057–67

A fission yeast homolog of CDC20/p55CDC/Fizzy is required for recovery from DNA damage and genetically interacts with p34cdc2. Matsumoto T. **Mol Cell Biol** 1997 Feb;17(2):742–50

The peroxin Pex17p of the yeast Yarrowia lipolytica is associated peripherally with the peroxisomal membrane and is required for the import of a subset of matrix proteins. Smith JJ, et al. **Mol Cell Biol** 1997 May;17(5):2511–20

Frequent aberrant methylation of p16INK4a in primary rat lung tumors. Swafford DS, et al. **Mol Cell Biol** 1997 Mar; 17(3):1366–74

Zap1p, a metalloregulatory protein involved in zinc–responsive transcriptional regulation in Saccharomyces cerevisiae. Zhao H, et al. **Mol Cell Biol** 1997 Sep;17(9):5044–52

CDC45, a novel yeast gene that functions with the origin recognition complex and Mcm proteins in initiation of DNA replication. Zou L, et al. **Mol Cell Biol** 1997 Feb; 17(2):553–63

High frequency deletion of the tumour suppressor gene P16INK4a (MTS1) in human thyroid cancer cell lines. Jones CJ, et al. **Mol Cell Endocrinol** 1996 Jan 15; 116(1):115–9

Characterization of the 5'–flanking region of the gene for the cAMP–inducible protein kinase A subunit, RIIbeta, in Sertoli cells. Knutsen HK, et al. **Mol Cell Endocrinol** 1997 Apr 25;129(1):101–14

A novel endozepine–like peptide (ELP) is exclusively expressed in male germ cells. Pusch W, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):69–80

Moderate doses of iodide in vivo inhibit cell proliferation and the expression of thyroperoxidase and Na+/I– symporter mRNAs in dog thyroid. Uyttersprot N, et al. **Mol Cell Endocrinol** 1997 Aug 8;131(2):195–203

Excitotoxic brain lesion modifies binding to a USF binding site acting as a negative regulatory element in the Protease nexin–1 promoter. Ernø H, et al. **Mol Cell Neurosci** 1996; 8(1):28–37

Deletions in the extracellular domain of rat trkA lead to an altered differentiative phenotype in neurotrophin responsive cells. MacDonald JI, et al. **Mol Cell Neurosci** 1996 May;7(5):371–90

Informative MspI polymorphism adjacent to exon 3 of the p16INK4 (MTS1) gene. Chaubert P, et al. **Mol Cell Probes** 1996 Dec;10(6):467–8

Absence of the L37P polymorphism in exon 1 of the CDKN2A gene. Fung JJ, et al. **Mol Cell Probes** 1997 Jun; 11(3):231–2

Regulation of the murine adipocyte fatty acid transporter gene by insulin. Man MZ, et al. **Mol Endocrinol** 1996 Aug; 10(8):1021–8

Growth hormone stimulates transcription of the gene encoding the acid–labile subunit (ALS) of the circulating insulin–like growth factor–binding protein complex and ALS promoter activity in rat liver. Ooi GT, et al. **Mol Endocrinol** 1997 Jun;11(7):997–1007

Rig2, a RING finger protein that interacts with the Kin28/Ccl1 CTD kinase in yeast. Faye G, et al. **Mol Gen Genet** 1997 Aug;255(5):460–6

An Hsp70 antisense gene affects the expression of HSP70/HSC70, the regulation of HSF, and the acquisition of thermotolerance in transgenic Arabidopsis thaliana. Lee JH, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):11–9

Two cold–inducible genes encoding lipid transfer protein LTP4 from barley show differential responses to bacterial pathogens. Molina A, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):162–8

The malEFG gene cluster of Streptomyces coelicolor A3(2): characterization, disruption and transcriptional analysis. van Wezel GP, et al. **Mol Gen Genet** 1997 May 20; 254(5):604–8

The expression of leptin and its receptors in pre–ovulatory human follicles. Cioffi JA, et al. **Mol Hum Reprod** 1997 Jun;3(6):467–72

Modulating the immunological properties of a linear B–cell epitope by insertion into permissive sites of the MalE protein. Martineau P, et al. **Mol Immunol** 1996 Dec; 33(17–18):1345–58

The CDKN2A (p16) gene and human cancer. Foulkes WD, et al. **Mol Med** 1997 Jan;3(1):5–20 (93 ref.)

Association between the serotonin transporter gene and affective disorder: the evidence so far. Ogilvie AD, et al. **Mol Med** 1997 Feb;3(2):90–3 (25 ref.)

Competence pheromone, oligopeptide permease, and induction of competence in Streptococcus pneumoniae. Alloing G, et al. **Mol Microbiol** 1996 Aug;21(3):471–8

Increased distal gene transcription by the elongation factor RfaH, a specialized homologue of NusG. Bailey MJ, et al. **Mol Microbiol** 1996 Nov;22(4):729–37

Regulation of anaerobic citrate metabolism in Klebsiella pneumoniae. Bott M, et al. **Mol Microbiol** 1995 Nov; 18(3):533–46

The penicillin sensory transducer, BlaR, involved in the inducibility of beta–lactamase synthesis in Bacillus licheniformis is embedded in the plasma membrane via a four–alpha–helix bundle. Hardt K, et al. **Mol Microbiol** 1997 Mar;23(5):935–44

Expression of the gltP gene of Escherichia coli in a glutamate transport–deficient mutant of Rhodobacter sphaeroides restores chemotaxis to glutamate. Jacobs MH, et al. **Mol Microbiol** 1995 Nov;18(4):641–7

Protein F2, a novel fibronectin–binding protein from Streptococcus pyogenes, possesses two binding domains. Jaffe J, et al. **Mol Microbiol** 1996 Jul;21(2):373–84

Identification and molecular cloning of a gene encoding a fibronectin–binding protein (CadF) from Campylobacter jejuni. Konkel ME, et al. **Mol Microbiol** 1997 Jun; 24(5):953–63

yst gene expression in Yersinia enterocolitica is positively regulated by a chromosomal region that is highly homologous to Escherichia coli host factor 1 gene (hfq). Nakao H, et al. **Mol Microbiol** 1995 Dec;18(5):859–65

The HypB protein from Bradyrhizobium japonicum can store nickel and is required for the nickel–dependent transcriptional regulation of hydrogenase. Olson JW, et al. **Mol Microbiol** 1997 Apr;24(1):119–28

In the search of Mycoplasma genitalium lost substrate–binding proteins: sequence divergence could be the result of a broader substrate specificity [letter] Saurin W, et al. **Mol Microbiol** 1996 Oct;22(2):389–90

A cyclophilin–like peptidyl–prolyl cis/trans isomerase from Legionella pneumophila—characterization, molecular cloning and overexpression. Schmidt B, et al. **Mol Microbiol** 1996 Sep;21(6):1147–60

Disruption of the gene encoding penicillin–binding protein 2b (pbp2b) causes altered cell morphology and cease in exopolysaccharide production in Streptococcus thermophilus Sfi6. Stingele F, et al. **Mol Microbiol** 1996 Oct;22(2):357–66

Involvement of the amino–terminal phosphorylation module of UhpA in activation of uhpT transcription in Escherichia coli. Webber CA, et al. **Mol Microbiol** 1997 Jun; 24(5):1039–48

Identification of a plasminogen–binding motif in PAM, a bacterial surface protein. Wistedt AC, et al. **Mol Microbiol** 1995 Nov;18(3):569–78

A glutamate/glutamine/aspartate/asparagine transport operon in Rhodobacter capsulatus. Zheng S, et al. **Mol Microbiol** 1996 Jun;20(5):1001–11

Cloning and functional expression of a human liver organic cation transporter. Zhang L, et al. **Mol Pharmacol** 1997 Jun;51(6):913–21

A putative amino acid transporter is specifically expressed in haustoria of the rust fungus Uromyces fabae. Hahn M, et al. **Mol Plant Microbe Interact** 1997 May;10(4):438–45

Association of polymorphisms of dopamine D2 receptor (DRD2), and dopamine transporter (DAT1) genes with schizoid/avoidant behaviors (SAB). Blum K, et al. **Mol Psychiatry** 1997 May;2(3):239–46

A novel functional polymorphism within the promoter of the serotonin transporter gene: possible role in susceptibility to affective disorders [see comments] Collier DA, et al. **Mol Psychiatry** 1996 Dec;1(6):453–60. Comment in: Mol Psychiatry 1996 Dec;1(6):434–6.

Evidence of linkage between the serotonin transporter and autistic disorder. Cook EH Jr, et al. **Mol Psychiatry** 1997 May;2(3):247–50

Candidate gene association studies in psychiatric genetics: a SERTain future? [news; comment] Craddock N, et al. **Mol Psychiatry** 1996 Dec;1(6):434–6. Comment on: Mol Psychiatry 1996 Dec;1(6):453–60.

No association between the serotonin transporter gene regulatory region polymorphism and the Tridimensional Personality Questionnaire (TPQ) temperament of harm avoidance. Ebstein RP, et al. **Mol Psychiatry** 1997 May; 2(3):224–6

Confirmation of association between attention deficit hyperactivity disorder and a dopamine transporter polymorphism. Gill M, et al. **Mol Psychiatry** 1997 Jul; 2(4):311–3

Retinitis pigmentosa and ataxia caused by a mutation in the gene for the alpha–tocopherol–transfer protein [letter] Yokota T, et al. **N Engl J Med** 1996 Dec 5;335(23):1770–1

Microcytic anaemia mice have a mutation in Nramp2, a candidate iron transporter gene. Fleming MD, et al. **Nat Genet** 1997 Aug;16(4):383–6

Uncoupling protein–2: a novel gene linked to obesity and hyperinsulinemia [see comments] Fleury C, et al. **Nat Genet** 1997 Mar;15(3):269–72. Comment in: Nat Genet 1997 Mar;15(3):223–4.

Congenital hypothyroidism caused by a mutation in the Na+/I–symporter. Fujiwara H. **Nat Genet** 1997 Sep; 17(1):122

Congenital hypothyroidism caused by a mutation in the Na+/I– symporter [letter] Fujiwara H, et al. **Nat Genet** 1997 Jun;16(2):124–5

Mutations of the Down–regulated in adenoma (DRA) gene cause congenital chloride diarrhoea. Höglund P, et al. **Nat Genet** 1996 Nov;14(3):316–9

HIP1, a human homologue of S. cerevisiae Sla2p, interacts with membrane–associated huntingtin in the brain. Kalchman MA, et al. **Nat Genet** 1997 May;16(1):44–53

Deletion of the promoter region in the Atp7a gene of the mottled dappled mouse [letter] Levinson B, et al. **Nat Genet** 1997 Jul;16(3):224–5

Nonsense mutation of leptin receptor in the obese spontaneously hypertensive Koletsky rat [letter] Takaya K, et al. **Nat Genet** 1996 Oct;14(2):130–1

A non–epistatic interaction of agouti and extension in the fox, Vulpes vulpes. Våge DI, et al. **Nat Genet** 1997 Mar; 15(3):311–5

Cloning of a human nucleoside transporter implicated in the cellular uptake of adenosine and chemotherapeutic drugs [see comments] Griffiths M, et al. **Nat Med** 1997 Jan; 3(1):89–93. Comment in: Nat Med 1997 Jan;3(1):25–6.

Adenovirally transferred p16INK4/CDKN2 and p53 genes cooperate to induce apoptotic tumor cell death. Sandig V, et al. **Nat Med** 1997 Mar;3(3):313–9

Seeking the nucleoside transporter [news; comment] Wiley JS. **Nat Med** 1997 Jan;3(1):25–6. Comment on: Nat Med 1997 Jan;3(1):89–93.

Amino acid sequence of peptidyl–prolyl isomerase a of Fusarium sporotrichioides. Chow LP, et al. **Nat Toxins** 1996;4(4):149–55

A gene family of silicon transporters [letter] Hildebrand M, et al. **Nature** 1997 Feb 20;385(6618):688–9

A plant cold–induced uncoupling protein [letter] Laloi M, et al. **Nature** 1997 Sep 11;389(6647):135–6

Expression cloning and characterization of a renal electrogenic Na+/HCO3– cotransporter. Romero MF, et al. **Nature** 1997 May 22;387(6631):409–13

Neuron–specific expression of a chicken gicerin cDNA in transient transgenic zebrafish. Kim CH, et al. **Neurochem Res** 1996 Feb;21(2):231–7

Age–related and regional differences in dopamine transporter mRNA expression in human midbrain. Bannon MJ, et al. **Neurology** 1997 Apr;48(4):969–77

Evaluation of four candidate genes encoding proteins of the dopamine pathway in familial and sporadic Parkinson's disease: evidence for association of a DRD2 allele. Planté–Bordeneuve V, et al. **Neurology** 1997 Jun; 48(6):1589–93

alpha–Tocopherol transfer protein gene: exon skipping of all transcripts causes ataxia. Tamaru Y, et al. **Neurology** 1997 Aug;49(2):584–8

The vibrator mutation causes neurodegeneration via reduced expression of PITP alpha: positional complementation cloning and extragenic suppression. Hamilton BA, et al. **Neuron** 1997 May;18(5):711–22

Expression of a putative vesicular acetylcholine transporter facilitates quantal transmitter packaging [see comments] Song H, et al. **Neuron** 1997 May;18(5):815–26. Comment in: Neuron 1997 May;18(5):683–6.

Carrier–mediated serotonin release induced by d–fenfluramine: studies with human neuroblastoma cells transfected with a rat serotonin transporter. Cinquanta M, et al. **Neuropharmacology** 1997 Jun;36(6):803–9

Association of short alleles of a VNTR of the serotonin transporter gene with anxiety symptoms in patients presenting after deliberate self harm. Evans J, et al. **Neuropharmacology** 1997 Apr–May;36(4–5):439–43

The serotonin transporter gene and peer–rated neuroticism. Ball D, et al. **Neuroreport** 1997 Mar 24;8(5):1301–4

The serotonin transporter is a potential susceptibility factor for bipolar affective disorder. Collier DA, et al. **Neuroreport** 1996 Jul 8;7(10):1675–9

Cellular localization of Na+/MYO–inositol co–transporter mRNA in the rat brain. Inoue K, et al. **Neuroreport** 1996 Apr 26;7(6):1195–8

Allelic functional variation of serotonin transporter expression is a susceptibility factor for late onset Alzheimer's disease. Li T, et al. **Neuroreport** 1997 Feb 10; 8(3):683–6

Decreased trkA gene expression within basal forebrain neurons in Alzheimer's disease. Mufson EJ, et al. **Neuroreport** 1996 Dec 20;8(1):25–9

Changes in gene expression for skin–type fatty acid binding protein in hypoglossal motor neurons following nerve crush. Owada Y, et al. **Neurosci Lett** 1997 Feb 14; 223(1):25–8

Alterations in the chemical composition of peptidoglycan of Escherichia coli DH5 alpha induced by the expression of Enterococcus faecalis penicillin binding protein 5. Signoretto C, et al. **New Microbiol** 1997 Jan;20(1):21–8

The leptin receptor promoter controls expression of a second distinct protein. Bailleul B, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2752–8

Location of the internal ribosome entry site in the 5' non–coding region of the immunoglobulin heavy–chain binding protein (BiP) mRNA: evidence for specific RNA–protein interactions. Yang Q, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2800–7

Allelic loss of 9p21 and mutation of the CDKN2/p16 gene develop as early lesions during neoplastic progression in Barrett's esophagus. Barrett MT, et al. **Oncogene** 1996 Nov 7;13(9):1867–73

Ras–responsiveness of the HIV–1 LTR requires RBF–1 and RBF–2 binding sites. Bell B, et al. **Oncogene** 1996 Dec 19;13(12):2687–97

Isolation and characterization of e3B1, an eps8 binding protein that regulates cell growth. Biesova Z, et al. **Oncogene** 1997 Jan 16;14(2):233–41

Homozygous codeletion and differential decreased expression of p15INK4b, p16INK4a–alpha and p16INK4a–beta in mouse lung tumor cells. Herzog CR, et al. **Oncogene** 1996 Nov 7;13(9):1885–91

Human glioblastomas with no alterations of the CDKN2A (p16INK4A, MTS1) and CDK4 genes have frequent mutations of the retinoblastoma gene. Ichimura K, et al. **Oncogene** 1996 Sep 5;13(5):1065–72

Expression of a binding protein for FGF is associated with epithelial development and skin carcinogenesis. Kurtz A, et al. **Oncogene** 1997 Jun 5;14(22):2671–81

Cloning and characterization of NE–dlg: a novel human homolog of the Drosophila discs large (dlg) tumor suppressor protein interacts with the APC protein. Makino K, et al. **Oncogene** 1997 May 22;14(20):2425–33

Inactivation of the cyclin–dependent kinase inhibitor p15INK4b by deletion and de novo methylation with independence of p16INK4a alterations in murine primary T–cell lymphomas. Malumbres M, et al. **Oncogene** 1997 Mar 20;14(11):1361–70

The p19INK4D cyclin dependent kinase inhibitor gene is altered in osteosarcoma. Miller CW, et al. **Oncogene** 1997 Jul 10;15(2):231–5

Alterations of the p16 gene in head and neck cancer: frequency and association with p53, PRAD–1 and HPV. Olshan AF, et al. **Oncogene** 1997 Feb 20;14(7):811–8

Accumulation of p16INK4a in mouse fibroblasts as a function of replicative senescence and not of retinoblastoma gene status. Palmero I, et al. **Oncogene** 1997 Jul 31;15(5):495–503

Frequent inactivation of p16INK4a in oral premalignant lesions. Papadimitrakopoulou V, et al. **Oncogene** 1997 Apr 17;14(15):1799–803

Differential expression of p16INK4a and p16beta transcripts in B–lymphoblastoid cells from members of hereditary melanoma families without CDKN2A exon mutations. Rizos H, et al. **Oncogene** 1997 Jul 31;15(5):515–23

PACT: cloning and characterization of a cellular p53 binding protein that interacts with Rb. Simons A, et al. **Oncogene** 1997 Jan 16;14(2):145–55

Induction of senescence in human malignant glioma cells by p16INK4A. Uhrbom L, et al. **Oncogene** 1997 Jul 31; 15(5):505–14

Lack of mutation in the cyclin–dependent kinase inhibitor, p19INK4d, in tumor–derived cell lines and primary tumors. Zariwala M, et al. **Oncogene** 1996 Nov 7;13(9):2033–8

Expression of the p16INK4a tumor suppressor versus other INK4 family members during mouse development and aging. Zindy F, et al. **Oncogene** 1997 Jul 10;15(2):203–11

Infrequent somatic mutations of the p16 and p15 genes in human bladder cancer: p16 mutations occur only in low–grade and superficial bladder cancers. Miyamoto H, et al. **Oncol Res** 1995;7(7–8):327–30

Mutation analysis in Canadian families with choroideremia [see comments] Nesslinger N, et al. **Ophthalmic Genet** 1996 Jun;17(2):47–52. Comment in: Ophthalmic Genet 1996 jUN;17(2):43–6.

New insights into the pathogenesis of choroideremia: a tale of two REPs [editorial; comment] Seabra MC. **Ophthalmic Genet** 1996 Jun;17(2):43–6 (24 ref.). Comment on: Ophthalmic Genet 1996 Jun;17(2):47–52.

A highly polymorphic microsatellite marker located within the choroideremia gene [letter] Van Bokhoven H, et al. **Ophthalmic Genet** 1996 Sep;17(3):119–21

Primary structure of a BiP homologue in Eimeria spp. Dunn PP, et al. **Parasitol Res** 1996;82(6):566–8

Incidence and clinical significance of CDKN2/MTS1/P16ink4A and MTS2/P15ink4B gene deletions in childhood acute lymphoblastic leukemia. Zhou M, et al. **Pediatr Hematol Oncol** 1997 Mar–Apr; 14(2):141–50

Linkage of Gitelman syndrome to the thiazide–sensitive sodium–chloride cotransporter gene with identification of mutations in Dutch families. Lemmink HH, et al. **Pediatr Nephrol** 1996 Aug;10(4):403–7

High resolution mapping of the renal sodium–phosphate cotransporter gene (NPT2) confirms its localization to human chromosome 5q35. McPherson JD, et al. **Pediatr Res** 1997 May;41(5):632–4

Renal expression of Na+–phosphate cotransporter mRNA and protein: effect of the Gy mutation and low phosphate diet. Beck L, et al. **Pflugers Arch** 1996 Apr;431(6):936–41

Human dipeptide transporter, hPEPT1, stably transfected into Chinese hamster ovary cells. Covitz KM, et al. **Pharm Res** 1996 Nov;13(11):1631–4

Two cDNAs from potato are able to complement a phosphate uptake–deficient yeast mutant: identification of phosphate transporters from higher plants. Leggewie G, et al. **Plant Cell** 1997 Mar;9(3):381–92

Expression of an N–terminal fragment of COP1 confers a dominant–negative effect on light–regulated seedling development in Arabidopsis. McNellis TW, et al. **Plant Cell** 1996 Sep;8(9):1491–503

det1, cop1, and cop9 mutations cause inappropriate expression of several gene sets. Mayer R, et al. **Plant Cell** 1996 Nov;8(11):1951–9

A Myb–related transcription factor is involved in the phytochrome regulation of an Arabidopsis Lhcb gene. Wang ZY, et al. **Plant Cell** 1997 Apr;9(4):491–507

A role for sugar transporters during seed development: molecular characterization of a hexose and a sucrose carrier in fava bean seeds. Weber H, et al. **Plant Cell** 1997 Jun; 9(6):895–908

H–protein of the glycine cleavage system in Flaveria: alternative splicing of the pre–mRNA occurs exclusively in advanced C4 species of the genus. Kopriva S, et al. **Plant J** 1996 Aug;10(2):369–73

The cloning of two Arabidopsis genes belonging to a phosphate transporter family. Smith FW, et al. **Plant J** 1997 Jan;11(1):83–92

Molecular cloning of a carotenoid–associated protein from Cucumis sativus corollas: homologous genes involved in carotenoid sequestration in chromoplasts. Vishnevetsky M, et al. **Plant J** 1996 Dec;10(6):1111–8

Cloning and characterization of the OsNramp family from Oryza sativa, a new family of membrane proteins possibly implicated in the transport of metal ions. Belouchi A, et al. **Plant Mol Biol** 1997 Apr;33(6):1085–92

A novel plant peptidyl–prolyl–cis–trans–isomerase (PPIase): cDNA cloning, structural analysis, enzymatic activity and expression. Blecher O, et al. **Plant Mol Biol** 1996 Nov; 32(3):493–504

Transcription of genes for conglutin gamma and a leginsulin–like protein in narrow–leafed lupin. Ilgoutz SC, et al. **Plant Mol Biol** 1997 Jul;34(4):613–27

PCR–identification of a Nicotiana plumbaginifolia cDNA homologous to the high–affinity nitrate transporters of the crnA family. Quesada A, et al. **Plant Mol Biol** 1997 May; 34(2):265–74

Tissue–specific expression and promoter analysis of the tobacco Itp1 gene. Canevascini S, et al. **Plant Physiol** 1996 Oct;112(2):513–24

Cloning and overexpression of two cDNAs encoding the low–CO2–inducible chloroplast envelope protein LIP–36 from Chlamydomonas reinhardtii. Chen ZY, et al. **Plant Physiol** 1997 May;114(1):265–73

Structure of the CAC1 gene and in situ characterization of its expression. The Arabidopsis thaliana gene coding for the biotin–containing subunit of the plastidic acetyl–coenzyme A carboxylase. Ke J, et al. **Plant Physiol** 1997 Feb;113(2):357–65

Spinophilin, a novel protein phosphatase 1 binding protein localized to dendritic spines. Allen PB, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9956–61

Excitatory amino acid transporter 5, a retinal glutamate transporter coupled to a chloride conductance. Arriza JL, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4155–60

Organization and chromosomal localization of the gene encoding the mouse acid labile subunit of the insulin–like growth factor binding complex. Boisclair YR, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10028–33

Melanoma angiogenesis and metastasis modulated by ribozyme targeting of the secreted growth factor pleiotrophin. Czubayko F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14753–8

Cloning of a novel T–cell protein FYB that binds FYN and SH2–domain–containing leukocyte protein 76 and modulates interleukin 2 production. da Silva AJ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7493–8

Alternatively spliced forms in the cytoplasmic domain of the human growth hormone (GH) receptor regulate its ability to generate a soluble GH–binding protein. Dastot F, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10723–8

The highly conserved skb1 gene encodes a protein that interacts with Shk1, a fission yeast Ste20/PAK homolog. Gilbreth M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13802–7

Cell stress–regulated human major histocompatibility complex class I gene expressed in gastrointestinal epithelium. Groh V, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12445–50

F–actin and G–actin binding are uncoupled by mutation of conserved tyrosine residues in maize actin depolymerizing factor (ZmADF). Jiang CJ, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9973–8

Expression cloning and characterization of a cDNA encoding a novel membrane protein required for the formation of O–acetylated ganglioside: a putative acetyl–CoA transporter. Kanamori A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2897–902

A novel transporter involved in cobalt uptake. Komeda H, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):36–41

Cloning and functional characterization of a subunit of the transporter associated with antigen processing. Li S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8708–13

AtMRP1 gene of Arabidopsis encodes a glutathione S–conjugate pump: isolation and functional definition of a plant ATP–binding cassette transporter gene. Lu YP, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8243–8

Identification of nitric oxide synthase as a protective locus against tuberculosis. MacMicking JD, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5243–8

Overexpression of an Arabidopsis thaliana high–affinity phosphate transporter gene in tobacco cultured cells enhances cell growth under phosphate–limited conditions. Mitsukawa N, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7098–102

RAB22 and RAB163/mouse BRCA2: proteins that specifically interact with the RAD51 protein. Mizuta R, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6927–32

A CDKN2–like polymorphism in Xiphophorus LG V is associated with UV–B–induced melanoma formation in platyfish–swordtail hybrids. Nairn RS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13042–7

ZnT–3, a putative transporter of zinc into synaptic vesicles. Palmiter RD, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14934–9

Cancer–associated mutations at the INK4a locus cancel cell cycle arrest by p16INK4a but not by the alternative reading frame protein p19ARF. Quelle DE, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):669–73

RanBP2 associates with Ubc9p and a modified form of RanGAP1. Saitoh H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3736–41

Human trophoblast and choriocarcinoma expression of the growth factor pleiotrophin attributable to germ–line

insertion of an endogenous retrovirus. Schulte AM, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14759–64

Calx, a Na–Ca exchanger gene of Drosophila melanogaster. Schwarz EM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10249–54

A single serine residue controls the cation dependence of substrate transport by the rat serotonin transporter. Sur C, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7639–44

Abnormal skeletal patterning in embryos lacking a single Cbp allele: a partial similarity with Rubinstein–Taybi syndrome. Tanaka Y, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10215–20

The structure and function of a soybean beta-glucan-elicitor-binding protein. Umemoto N, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1029–34

Molecular cloning of a peroxisomal Ca2+-dependent member of the mitochondrial carrier superfamily. Weber FE, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8509–14

Neuregulin-3 (NRG3): a novel neural tissue-enriched protein that binds and activates ErbB4. Zhang D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9562–7

Phylogenetic survey of soluble saxitoxin-binding activity in pursuit of the function and molecular evolution of saxiphilin, a relative of transferrin. Llewellyn LE, et al. **Proc R Soc Lond B Biol Sci** 1997 Jun 22;264(1383):891–902

Dietary regulation of the renal sodium-phosphate (Na+/Pi) transporter during early ontogeny in the rat. Taufiq S, et al. **Proc Soc Exp Biol Med** 1997 Jul;215(3):281–9

The VAChT/ChAT "cholinergic gene locus": new aspects of genetic and vesicular regulation of cholinergic function. Erickson JD, et al. **Prog Brain Res** 1996;109:69–82 (50 ref.)

Structure and regulation of the ALS gene. Ooi GT, et al. **Prog Growth Factor Res** 1995;6(2–4):151–7 (30 ref.)

Molecular and structural features of the proton-coupled oligopeptide transporter superfamily. Fei YJ, et al. **Prog Nucleic Acid Res Mol Biol** 1998;58:239–61 (57 ref.)

The mitochondrial uncoupling protein: structural and genetic studies. Ricquier D, et al. **Prog Nucleic Acid Res Mol Biol** 1997;56:83–108 (81 ref.)

Mutations of the p16 gene product are rare in prostate cancer. Gaddipati JP, et al. **Prostate** 1997 Feb 15;30(3):188–94

Destabilizing interactions between the partners of a bifunctional fusion protein. Blondel A, et al. **Protein Eng** 1996 Feb;9(2):231–8

FK506-binding protein mutational analysis: defining the active-site residue contributions to catalysis and the stability of ligand complexes. DeCenzo MT, et al. **Protein Eng** 1996 Feb;9(2):173–80

Engineering trypsin-sensitive sites in a membrane transport protein. Lee MH, et al. **Protein Eng** 1997 Jun;10(6):715–23

Glutathione-independent prostaglandin D synthase as a lead molecule for designing new functional proteins. Toh H, et al. **Protein Eng** 1996 Dec;9(12):1067–82 (51 ref.)

Expression and biological activity of genetic fusions between MalE, the maltose binding protein from Escherichia coli and portions of CD4, the T-cell receptor of the AIDS virus. Clément JM, et al. **Protein Expr Purif** 1996 Nov; 8(3):319–31

Human cysteine-rich intestinal protein: cDNA cloning and expression of recombinant protein and identification in human peripheral blood mononuclear cells. Khoo C, et al. **Protein Expr Purif** 1997 Apr;9(3):379–87

High-level expression of soluble protein in Escherichia coli using a His6-tag and maltose-binding-protein double-affinity fusion system. Pryor KD, et al. **Protein Expr Purif** 1997 Aug;10(3):309–19

Characterization of purified recombinant Bet v 1 with authentic N-terminus, cloned in fusion with maltose-binding protein. Spangfort MD, et al. **Protein Expr Purif** 1996 Nov;8(3):365–73

Purification and characterization of recombinant mouse growth hormone binding protein produced in the baculovirus expression system. Thordarson G, et al. **Protein Expr Purif** 1996 Feb;7(1):74–80

Subcloning of a DNA fragment encoding a single cohesin domain of the Clostridium thermocellum cellulosome-integrating protein CipA: purification, crystallization, and preliminary diffraction analysis of the encoded polypeptide. Béguin P, et al. **Protein Sci** 1996 Jun; 5(6):1192–4

Overexpression of bacterio-opsin in Escherichia coli as a water-soluble fusion to maltose binding protein: efficient regeneration of the fusion protein and selective cleavage with trypsin. Chen GQ, et al. **Protein Sci** 1996 Mar; 5(3):456–67

The lipocalin Xlcpl1 expressed in the neural plate of Xenopus laevis embryos is a secreted retinaldehyde binding protein. Lepperdinger G, et al. **Protein Sci** 1996 Jul;5(7):1250–60

Structure of a variable number tandem repeat of the serotonin transporter gene and association with affective disorder. Battersby S, et al. **Psychiatr Genet** 1996 Winter;6(4):177–81

Alcoholism and gene polymorphisms related to central dopaminergic transmission in the Japanese population. Dobashi I, et al. **Psychiatr Genet** 1997 Summer;7(2):87–91

No association between particular DRD3 and DAT gene polymorphisms and manic-depressive illness in a Spanish sample. Gómez-Casero E, et al. **Psychiatr Genet** 1996 Winter;6(4):209–12

Lack of ovarian steroid hormone regulation of norepinephrine transporter mRNA expression in the non-human primate locus coeruleus. Schutzer WE, et al. **Psychoneuroendocrinology** 1997 Jul;22(5):325–36

Mannose-binding protein, genetic variants and the risk of infection [editorial] Sumiya M, et al. **QJM** 1996 Oct; 89(10):723–6

Effects of swimming training on brown-adipose-tissue activity in obese ob/ob mice: GDP binding and UCP m-RNA expression. Ueno N, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan;95(1):92–104

Significance of the antimicrobial resistance gene, Nramp1, in resistance to virulent Mycobacterium tuberculosis infection. North RJ, et al. **Res Immunol** 1996 Oct-Dec; 147(8–9):493–9 (13 ref.)

Genetic relationship between dopamine transporter gene and schizophrenia: linkage and association. Maier W, et al. **Schizophr Res** 1996 May;20(1–2):175–80

High anxiety [comment] Goldman D. **Science** 1996 Nov 29; 274(5292):1483. Comment on: Science 1996 Nov 29;274(5292):1527–31.

Association of anxiety-related traits with a polymorphism in the serotonin transporter gene regulatory region [see comments] Lesch KP, et al. **Science** 1996 Nov 29; 274(5292):1527–31. Comment in: Science 1996 Nov 29;274(5292):1483.

Identification of a human mitotic checkpoint gene: hsMAD2. Li Y, et al. **Science** 1996 Oct 11;274(5285):246–8

Effect of hemorrhagic shock on endotoxin-inducing TNF production and intra-tissue lipopolysaccharide-binding protein mRNA expression and their relationship. Jiang JX, et al. **Shock** 1997 Mar;7(3):206–10

The natural resistance-associated macrophage protein gene is associated with Crohn's disease. Hofmeister A, et al. **Surgery** 1997 Aug;122(2):173–8; discussion 178–9

Resistance to intracellular infections: comparative genomic analysis of Nramp. Cellier M, et al. **Trends Genet** 1996 Jun; 12(6):201–4 (20 ref.)

Identification of two CyP-40-like cyclophilins in Saccharomyces cerevisiae, one of which is required for normal growth. Duina AA, et al. **Yeast** 1996 Aug; 12(10):943–52

Multidrug-resistant transport proteins in yeast: complete inventory and phylogenetic characterization of yeast open reading frames with the major facilitator superfamily. Goffeau A, et al. **Yeast** 1997 Jan;13(1):43–54

Ribosomal protein L9 is the product of GRC5, a homolog of the putative tumor suppressor QM in S. cerevisiae. Nika J, et al. **Yeast** 1997 Sep 30;13(12):1155–66

Sequence analysis of a 37.6 kbp cosmid clone from the right arm of Saccharomyces cerevisiae chromosome XII, carrying YAP3, HOG1, SNR6, tRNA-Arg3 and 23 new open reading frames, among which several homologies to proteins involved in cell division control and to mammalian growth factors and other animal proteins are found. Verhasselt P, et al. **Yeast** 1997 Mar 15;13(3):241–50

[Tribulations of the p16/MTS1/CDKN2 tumor gene suppressor: a continuing saga] Larsen CJ. **Bull Cancer** 1997 Apr;84(4):427–30 (27 ref.) (Eng. Abstr.) **(Fre)**

[The "diabetes" (db) gene of the mouse codes for a mutated leptin receptor--a cue to understanding obesity?] Gallwitz B, et al. **Z Gastroenterol** 1997 Apr;35(4):307–10 **(Ger)**

[Alteration of p15 and p16 gene in gastric cancer] Fushida S, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:279–84 (Eng. Abstr.) **(Jpn)**

[Frequency and effect on plasma lipoprotein metabolism of a mutation in the cholesteryl ester transfer protein gene in the Chinese] Hui SP. **Hokkaido Igaku Zasshi** 1997 May; 72(3):319–27 (Eng. Abstr.) **(Jpn)**

[Regulation of osmolyte transporter gene expression by tonicity] Takenaka M, et al. **Nippon Rinsho** 1996 Oct; 54(10):2821–8 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of cyclin dependent kinase inhibitors, p16INK4a and p15INK4b gene, in acute lymphoblastic leukemias] Kaname M, et al. **Rinsho Byori** 1996 Aug;44(8):771–7 (Eng. Abstr.) **(Jpn)**

[Carrier proteins encoded by tobamoviruses suppress translation of genomic viral RNA in vitro] Dorokhov IuL, et al. **Dokl Akad Nauk** 1996 Jul;349(2):259–61 **(Rus)**

[Isolation and properties of mutants devoid of pseudo-HPr activity of the fructose transfer system in Escherichia coli K12] Sergeev KV, et al. **Genetika** 1997 Mar;33(3):321–7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Local and systemic antibody levels against protein D of Haemophilus influenzae following immunization and infection in rats. Akkoyunlu M, et al. **APMIS** 1996 Oct; 104(10):709–17

Human placental Fc gamma-binding proteins in the maternofetal transfer of IgG. Kristoffersen EK. **APMIS Suppl** 1996;64:5–36 (375 ref.)

A 20-kDa protein in human seminal plasma that is identical to gross cystic disease fluid protein 15 and prolactin-inducible protein. Osawa M, et al. **Arch Androl** 1996 Jan-Feb;36(1):29–39

Autoantibodies to a nucleolar RNA helicase protein in patients with connective tissue diseases. Arnett FC, et al. **Arthritis Rheum** 1997 Aug;40(8):1487–92

Autoantibody against thyroid iodide transporter in the sera from patients with Hashimoto's thyroiditis possesses iodide transport inhibitory activity. Endo T, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):199–202

Antigenic similarities among biotin-binding proteins. Subramanian N, et al. **Biochem Mol Biol Int** 1996 Nov; 40(4):663–70

Serotonin transporter antibodies: production, characterization, and localization in the brain. Zhou FC, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):267–78

CD3-CD28 costimulation as a means to avoiding T cell preactivation in bispecific monoclonal antibody-based treatment of ovarian carcinoma. Mazzoni A, et al. **Cancer Res** 1996 Dec 1;56(23):5443–9

Identification of fusion regulatory protein (FRP)-1/4F2 related molecules: cytoskeletal proteins are associated with FRP-1 molecules that regulate multinucleated giant cell formation of monocytes and HIV-induced cell fusion. Suga S, et al. **Cell Struct Funct** 1995 Dec;20(6):473–83

Antibody cross-reactivity induced by the homologous regions in glutamic acid decarboxylase (GAD65) and 2C protein of coxsackievirus B4. Childhood Diabetes in Finland Study Group. Lönnrot M, et al. **Clin Exp Immunol** 1996 Jun;104(3):398–405

Purification and comparison of beta-1,3-glucan binding protein from white shrimp (Penaeus vannamei). Vargas-Albores F, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):453–8

The collectins in innate immunity. Epstein J, et al. **Curr Opin Immunol** 1996 Feb;8(1):29–35 (58 ref.)

Update on the thyroid sodium iodide symporter: a novel thyroid antigen emerging on the horizon. Spitzweg C, et al. **Eur J Endocrinol** 1997 Jul;137(1):22–3 (7 ref.)

Surfactant protein A, but not surfactant protein D, is an opsonin for influenza A virus phagocytosis by rat alveolar macrophages. Benne CA, et al. **Eur J Immunol** 1997 Apr; 27(4):886–90

Epitope selection in major histocompatibility complex class I-mediated pathway is affected by the intracellular localization of an antigen. Yamazaki H, et al. **Eur J Immunol** 1997 Feb;27(2):347–53

Autoimmunogenicity of the human sperm protein Sp17 in vasectomized men and identification of linear B cell epitopes. Lea IA, et al. **Fertil Steril** 1997 Feb;67(2):355–61

Mouse monoclonal antipeptide antibodies specific for cholesteryl ester transfer protein (CETP). Thomas AP, et al. **Hybridoma** 1996 Oct;15(5):359–64

The multidrug transporters--proteins of an ancient immune system. Sarkadi B, et al. **Immunol Lett** 1996 Dec; 54(2–3):215–9 (29 ref.)

Expression of NRAMP1 molecule in human peripheral blood leukocytes. Yoshida T, et al. **Immunol Lett** 1997 Feb; 55(2):105–8

Mannose-binding lectin: the pluripotent molecule of the innate immune system. Turner MW. **Immunol Today** 1996 Nov;17(11):532–40 (76 ref.)

Establishment of the functional importance of thiamin carrier protein in pregnant rats by using monoclonal antibodies. Subramanian S, et al. **Indian J Biochem Biophys** 1996 Apr; 33(2):111–5

Biological activity of serum antibodies to a nonacylated form of lipoprotein D of Haemophilus influenzae. Akkoyunlu M, et al. **Infect Immun** 1996 Nov;64(11):4586–92

Expression and immunogenicity of an Echinococcus granulosus fatty acid-binding protein in live attenuated Salmonella vaccine strains. Chabalgoity JA, et al. **Infect Immun** 1997 Jun;65(6):2402–12

Baculovirus-mediated expression of Plasmodium falciparum erythrocyte binding antigen 175 polypeptides and their recognition by human antibodies. Daugherty JR, et al. **Infect Immun** 1997 Sep;65(9):3631–7

Identification, characterization, and immunogenicity of the lactoferrin-binding protein from Helicobacter pylori. Dhaenens L, et al. **Infect Immun** 1997 Feb;65(2):514–8

Control by H-2 genes of the Th1 response induced against a foreign antigen expressed by attenuated Salmonella typhimurium. Lo-Man R, et al. **Infect Immun** 1996 Nov; 64(11):4424–32

Evaluation of recombinant transferrin-binding protein B variants from Neisseria meningitidis for their ability to induce cross-reactive and bactericidal antibodies against a genetically diverse collection of serogroup B strains. Rokbi B, et al. **Infect Immun** 1997 Jan;65(1):55–63

Quaternary structure of a carrier protein influences antigenicity and immunogenicity of an inserted T cell determinant. Janssen R, et al. **Int Immunol** 1996 Jun; 8(6):829–36

Generation and characterization of an IGFBP-7 antibody: identification of 31kD IGFBP-7 in human biological fluids and Hs578T human breast cancer conditioned media. Wilson EM, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1301–3

The domain on the Duffy blood group antigen for binding Plasmodium vivax and P. knowlesi malarial parasites to erythrocytes. Chitnis CE, et al. **J Exp Med** 1996 Oct 1; 184(4):1531–6

Costimulation of T cell activation by integrin-associated protein (CD47) is an adhesion-dependent, CD28-independent signaling pathway. Reinhold MI, et al. **J Exp Med** 1997 Jan 6;185(1):1–11

Molecular mimicry between an immunodominant amino acid motif on the 47-kDa lipoprotein of Treponema pallidum (Tpp47) and multiple repeats of analogous sequences in fibronectin. Baughn RE, et al. **J Immunol** 1996 Jul 15; 157(2):720–31

Carrier-independent hapten recognition and promiscuous MHC restriction by CD4 T cells induced by

trinitrophenylated peptides. Kohler J, et al. **J Immunol** 1997 Jan 15;158(2):591–7

Involvement of peptide antigens in the cytotoxicity between 70-kDa heat shock cognate protein-like molecule and CD3+, CD4–, CD8–, TCR-alpha beta- killer T cells. Takashima S, et al. **J Immunol** 1996 Oct 15;157(8):3391–5

Integrin-associated protein (CD47) is a comitogenic molecule on CD3-activated human T cells. Ticchioni M, et al. **J Immunol** 1997 Jan 15;158(2):677–84

Natural resistance to intracellular infections: Nramp1 encodes a membrane phosphoglycoprotein absent in macrophages from susceptible (Nramp1 D169) mouse strains. Vidal SM, et al. **J Immunol** 1996 Oct 15;157(8):3559–68

Conjugation to preadsorbed preactivated proteins and efficient generation of anti peptide antibodies. Houen G, et al. **J Immunol Methods** 1997 Aug 7;206(1-2):125–34

CTL responses induced by a single immunization with peptide encapsulated in biodegradable microparticles. Partidos CD, et al. **J Immunol Methods** 1997 Aug 7; 206(1-2):143–51

Blocking of iron uptake by monoclonal antibodies specific for the Neisseria meningitidis transferrin-binding protein 2. Pintor M, et al. **J Med Microbiol** 1996 Oct;45(4):252–7

Species- and brain region-specific dopamine transporters: immunological and glycosylation characteristics. Vaughan RA, et al. **J Neurochem** 1996 May;66(5):2146–52

Anti-brain spectrin immunoreactivity in Alzheimer's disease: degradation of spectrin in an animal model of cholinergic degeneration. Fernández-Shaw C, et al. **J Neuroimmunol** 1997 Jul;77(1):91–8

Dengue virus envelope glycoprotein can be secreted from insect cells as a fusion with the maltose-binding protein. Staropoli I, et al. **J Virol Methods** 1996 Feb;56(2):179–89

Conservation and antigenic cross-reactivity of the transferrin-binding proteins of Haemophilus influenzae, Actinobacillus pleuropneumoniae and Neisseria meningitidis. Holland J, et al. **Microbiology** 1996 Dec;142 (Pt 12):3505–13

Conservation of structure and function of the erythrocyte-binding domain of Plasmodium falciparum EBA-175. Liang H, et al. **Mol Biochem Parasitol** 1997 Feb; 84(2):241–5

Generation of antiserum to specific epitopes. Marchion DC, et al. **Mol Biotechnol** 1996 Dec;6(3):231–40

Modulating the immunological properties of a linear B-cell epitope by insertion into permissive sites of the MalE protein. Martineau P, et al. **Mol Immunol** 1996 Dec; 33(17-18):1345–58

Identification of the Fy6 epitope recognized by two monoclonal antibodies in the N-terminal extracellular portion of the Duffy antigen receptor for chemokines. Wańniowska K, et al. **Mol Immunol** 1996 Aug; 33(11-12):917–23

Vaccine for atherosclerosis [news] O'Brien C. **Mol Med Today** 1997 Jun;3(6):231

Roles of TGF-beta and latent TGF-beta-binding protein in glomerulosclerosis induced by two consecutive injections of monoclonal antibody 1-22-3 in rats. Nakayama M, et al. **Nephron** 1997;76(1):82–9

Midkine-like immunoreactivity in extracellular neurofibrillary tangles in brains of patients with parkinsonism-dementia complex of Guam. Yasuhara O, et al. **Neurosci Lett** 1996 Feb 23;205(2):107–10

Radioiodinated estramustine phosphate and estramustine binding protein antibody accumulate in the prostate of a mouse. Ståhlberg K, et al. **Prostate** 1997 Jun 15;32(1):1–8

Hyperexpression of chicken riboflavin carrier protein: antibodies to the recombinant protein curtail pregnancy in rodents. Sooryanarayana, et al. **Protein Expr Purif** 1996 Mar;7(2):147–54

Identification of alpha-fodrin as a candidate autoantigen in primary Sjögren's syndrome. Haneji N, et al. **Science** 1997 Apr 25;276(5312):604–7

Decreased resistance to bacterial infection and granulocyte defects in IAP-deficient mice. Lindberg FP, et al. **Science** 1996 Nov 1;274(5288):795–8

Binding of immunoglobulin G from patients with autoimmune thyroid disease to rat sodium-iodide symporter peptides: evidence for the iodide transporter as an autoantigen. Morris JC, et al. **Thyroid** 1997 Aug; 7(4):527–34

The meningococcal transferrin-binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of killing homologous and heterologous strains. Ala'Aldeen DA, et al. **Vaccine** 1996 Jan;14(1):49–53

ISOLATION & PURIFICATION

Immunoaffinity purification of juvenile hormone-binding protein from Galleria mellonella hemolymph. Wieczorek E, et al. **Acta Biochim Pol** 1996;43(4):603–10

Discovery of cyanovirin-N, a novel human immunodeficiency virus-inactivating protein that binds viral surface envelope glycoprotein gp120: potential applications to microbicide development. Boyd MR, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1521–30

Effect of detergents on ligand binding and translocation activities of solubilized/reconstituted nucleoside transporters. Hammond JR, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):313–22

Isolation, primary sequence determination, and disulfide bond structure of cyanovirin-N, an anti-HIV (human immunodeficiency virus) protein from the cyanobacterium Nostoc ellipsosporum. Gustafson KR, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):223–8

Purification of a regulatory subunit of type II cAMP-dependent protein kinase from Drosophila heads. Inoue H, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):223–6

Presence of two new fatty acid binding proteins in catfish liver. De Pietro SM, et al. **Biochem Cell Biol** 1996; 74(5):675–80

Purification, characterization, and partial amino acid sequencing of an amphibian liver fatty acid binding protein. Schleicher CH, et al. **Biochem Cell Biol** 1996;74(1):109–15

Novel 30 kDa protein possessing ATP-binding and chaperone activities. Itoh H, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):567–72

Improvements on the purification of mannan-binding lectin and demonstration of its Ca(2+)-independent association with a C1s-like serine protease. Tan SM, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):329–32

Isolation and characterization of AFP-binding proteins from tumor and fetal human tissues. Kanevsky VYu, et al. **Biochem Mol Biol Int** 1997 May;41(6):1143–51

Partial purification and reconstitution of the tricarboxylate carrier from eel liver mitochondria. Zara V, et al. **Biochem Mol Biol Int** 1996 May;39(2):369–75

Purification and characterisation of a plasminogen-binding protein from Haemophilus influenzae. Sequence determination reveals identity with aspartase. Sjöström I, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):182–90

Characterization, purification and properties of the yeast mitochondrial dicarboxylate carrier (Saccharomyces cerevisiae). Lançar-Benba J, et al. **Biochimie** 1996; 78(3):195–200

Iron acquisition by oral hemolytic spirochetes: isolation of a hemin-binding protein and identification of iron reductase activity. Scott D, et al. **Can J Microbiol** 1996 Oct; 42(10):1072–9

Condensins, chromosome condensation protein complexes containing XCAP-C, XCAP-E and a Xenopus homolog of the Drosophila Barren protein. Hirano T, et al. **Cell** 1997 May 16;89(4):511–21

Identification of a 37 kDa tacrolimus, sirolimus and cyclosporine binding immunophilin possessing glyceraldehyde 3-phosphate dehydrogenase activity isolated from the Jurkat T cell line. Murthy JN, et al. **Clin Biochem** 1997 Mar;30(2):129–33

Purification and comparison of beta-1,3-glucan binding protein from white shrimp (Penaeus vannamei). Vargas-Albores F, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):453–8

Isolation and characterization of niphatevirin, a human-immunodeficiency-virus-inhibitory glycoprotein from the marine sponge Niphates erecta. O'Keefe BR, et al. **Eur J Biochem** 1997 Apr 1;245(1):47–53

Isolation, cloning, and expression of fatty-acid binding proteins from Fasciola gigantica. Smooker PM, et al. **Exp Parasitol** 1997 Jan;85(1):86–91

mRNA distribution and membrane localization of the OAT-K1 organic anion transporter in rat renal tubules. Masuda S, et al. **FEBS Lett** 1997 Apr 28;407(2):127–31

Identification of a lactoferrin-binding protein in Prevotella nigrescens. de Lillo A, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):61–4

Isolation of heme-binding proteins from Vibrio anguillarum using affinity chromatography. Mazoy R, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):19–23

RS cyclophilins: identification of an NK-TR1-related cyclophilin. Nestel FP, et al. **Gene** 1996 Nov 21; 180(1-2):151–5

Isolation of 75Se binding protein from hepatic tissues of chick embryos. Padmaja K, et al. **Indian J Exp Biol** 1996 Jul; 34(7):678–82

Purification, characterization, and cDNA cloning of ABP-2 (arylphorin gene-specific binding protein-2) that specifically binds to the ABP-1-binding sequence in the arylphorin gene of Sarcophaga peregrina. Adachi N, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1239–46

Isolation and characterization of GBP28, a novel gelatin-binding protein purified from human plasma. Nakano Y, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):803–12

Identification of protein phosphatase-1-binding proteins by microcystin-biotin affinity chromatography. Campos M, et al. **J Biol Chem** 1996 Nov 8;271(45):28478–84

Mft52, an acid-bristle protein in the cytosol that delivers precursor proteins to yeast mitochondria. Cartwright P, et al. **J Biol Chem** 1997 Feb 21;272(8):5320–5

Identification of the major synaptojanin-binding proteins in brain. de Heuvel E, et al. **J Biol Chem** 1997 Mar 28; 272(13):8710–6

Purification and biochemical properties of Saccharomyces cerevisiae's Mge1p, the mitochondrial cochaperone of Ssc1p. Deloche O, et al. **J Biol Chem** 1996 Sep 27; 271(39):23960–6

Purification, structural analysis, and function of natural ATAC, a cytokine secreted by CD8(+) T cells. Dorner B, et al. **J Biol Chem** 1997 Mar 28;272(13):8817–23

Isolation and characterization of a new member of the scavenger receptor superfamily, glycoprotein-340 (gp-340), as a lung surfactant protein-D binding molecule. Holmskov U, et al. **J Biol Chem** 1997 May 23; 272(21):13743–9

Identification and functional expression of HAH1, a novel human gene involved in copper homeostasis. Klomp LW, et al. **J Biol Chem** 1997 Apr 4;272(14):9221–6

Identification of pirin, a novel highly conserved nuclear protein. Wendler WMF, et al. **J Biol Chem** 1997 Mar 28; 272(13):8482–9

One-step purification of rat heart-type fatty acid-binding protein expressed in Escherichia coli. Schaap FG, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):61–7

Regional expression of sodium pump subunits isoforms and Na+-Ca++ exchanger in the human heart. Wang J, et al. **J Clin Invest** 1996 Oct 1;98(7):1650–8

Purification and binding properties of a human ficolin-like protein. Le Y, et al. **J Immunol Methods** 1997 May 12; 204(1):43–9

Biotin derivatives of folate compounds: synthesis and utilization for visualization and affinity purification of folate transport proteins. Fan J, et al. **Methods Enzymol** 1997; 281:97–105

Detection and isolation of recombinant protein based on binding affinity reporter. Maltose binding protein. Riggs P. **Methods Mol Biol** 1997;63:85–101

Purification and light-scattering analysis of penicillin-binding protein 4 from Escherichia coli. Fusetti F, et al. **Microb Drug Resist** 1996 Spring;2(1):73–6

Identification and characterization of Schistosoma mansoni p17.7, a cyclophilin. Kiang D, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1-2):73–82

Identification and localization of rab6, separation of rab6 from ERD2 and implications for an 'unstacked' Golgi, in Plasmodium falciparum. Van Wye J, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):107–20

Purification and localization of a 25-kD porcine renal puromycin aminonucleoside-binding protein. Kodama T, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1453–60

Purification of the Chlorella HUP1 hexose-proton symporter to homogeneity and its reconstitution in vitro. Caspari T, et al. **Plant J** 1996 Dec;10(6):1045–53

Purification and characterization of the reconstitutively active adenine nucleotide carrier from maize mitochondria. Genchi G, et al. **Plant Physiol** 1996 Oct;112(2):845–51

The choroid plexus epithelium is the site of the organic anion transport protein in the brain. Angeletti RH, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):283–6

Isolation of a multispecific organic anion and cardiac glycoside transporter from rat brain. Noé B, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10346–50

Purification of UhpT, the sugar phosphate transporter of Escherichia coli. Tamai E, et al. **Protein Expr Purif** 1997 Jul;10(2):275–82

The proteins encoded by the rbs operon of Escherichia coli: I. Overproduction, purification, characterization, and functional analysis of RbsA. Barroga CF, et al. **Protein Sci** 1996 Jun;5(6):1093–9

Full-length and N-terminally truncated chicken intestinal diazepam-binding inhibitor. Purification, structural characterization and influence on insulin release. Chen ZW, et al. **Regul Pept** 1997 Mar 26;69(2):63–8

Low molecular weight copper-binding protein in the liver of rats given a single and repeated injections of copper. Suzuki-Kurasaki M, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun;92(3):299–314

Purification of lipopolysaccharide-binding protein from bovine serum. Bochsler PN, et al. **Vet Immunol Immunopathol** 1996 Jun 1;51(3-4):303–14

METABOLISM

Transient expression of the serotonin transporter in the developing mouse thalamocortical system. Brüning G, et al. **Acta Histochem** 1997 Mar;99(1):117–21

Cellular distribution of the iron-binding protein lactotransferrin in the mesencephalon of Parkinson's disease cases. Leveugle B, et al. **Acta Neuropathol (Berl)** 1996; 91(6):566–72

Platelet serotonin transporter in coeliac disease. Chiaravalloti G, et al. **Acta Paediatr** 1997 Jul;86(7):696–9

Changes of the 78 kDa glucose-regulated protein (grp78) in livers of diabetic rats. Szántó I, et al. **Acta Physiol Hung** 1995;83(4):333–42

The role of dietary folate in modulation of folate receptor expression, folylpolyglutamate synthetase activity and the efficacy and toxicity of lometrexol. Mendelsohn LG, et al. **Adv Enzyme Regul** 1996;36:365–81

Taurine is a substrate of the anion exchanger transport systems. del Río RM, et al. **Adv Exp Med Biol** 1996; 403:401–7

Nitric oxide-evoked [3H]taurine release is mediated by reversal of the Na(+)-dependent carrier-mediated taurine transport system. Ohkuma S, et al. **Adv Exp Med Biol** 1996; 403:417–25

Regulation of Ca2+ transport by insulin and taurine. Interaction at the level of the Na(+)-Ca2+ exchanger. Schaffer SW, et al. **Adv Exp Med Biol** 1996;403:551–60

Heterogeneity and functional properties of subtypes of sodium-dependent glutamate transporters in the mammalian central nervous system. Robinson MB, et al. **Adv Pharmacol** 1997;37:69–115 (210 ref.)

Decreases in dopamine receptors but not in dopamine transporters in alcoholics. Volkow ND, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1594–8

Abnormal reabsorption of Na+/Cl- by the thiazide-inhibitable transporter of the distal convoluted

tubule in Gitelman's syndrome. Colussi G, et al. **Am J Nephrol** 1997;17(2):103–11

Abnormal expression of the cell cycle regulators P16 and CDK4 in Alzheimer's disease. McShea A, et al. **Am J Pathol** 1997 Jun;150(6):1933–9

Fascin, a sensitive new marker for Reed–Sternberg cells of hodgkin's disease. Evidence for a dendritic or B cell derivation? Pinkus GS, et al. **Am J Pathol** 1997 Feb; 150(2):543–62

Na(+)–K+(NH4+)–2Cl– cotransport in medullary thick ascending limb: control by PKA, PKC, and 20–HETE. Amlal H, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C455–63

Stimulation of Na(+)–K(+)–2Cl– cotransport in rat medullary thick ascending limb by dopamine. Aoki Y, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1561–7

Expression cloning of NaDC–2, an intestinal Na(+)– or Li(+)–dependent dicarboxylate transporter. Bai L, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G267–74

Different interactions of cardiac and skeletal muscle ryanodine receptors with FK–506 binding protein isoforms. Barg S, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1721–33

Expression of the sodium–chloride cotransporter in osteoblast–like cells: effect of thiazide diuretics. Barry EL, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C109–16

Carrier–mediated transport of conjugated bile acids across the basolateral membrane of biliary epithelial cells. Benedetti A, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1416–24

A quantitative description of the Na–K–2Cl cotransporter and its conformity to experimental data. Benjamin BA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F473–82

Immunologic distribution of an organic anion transport protein in rat liver and kidney. Bergwerk AJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G231–8

ATP–dependent copper transporter, in the Golgi apparatus of rat hepatocytes, transports Cu(II) not Cu(I). Bingham MJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G741–6

Amylin, calcitonin gene–related peptide, and adrenomedullin: effects on thiazide receptor and calcium. Blakely P, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F410–5

Characterization of the rat Na+/H+ exchanger isoform NHE4 and localization in rat hippocampus. Bookstein C, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1629–38

Water deprivation and rat adrenal mRNAs for tyrosine hydroxylase and the norepinephrine transporter. Brooks VL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1897–903

Leptin receptors in the adrenal medulla of the rat. Cao GY, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E448–52

Comparative analysis of the ontogeny of a sodium–dependent bile acid transporter in rat kidney and ileum. Christie DM, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G377–85

Cellular and molecular mechanisms of renal peptide transport. Daniel H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F1–8 (72 ref.)

Pleiotropic upregulation of Na(+)–dependent cotransporters by retinoic acid in opossum kidney cells. de Toledo FG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F438–44

Studies of renal injury. I. Gentamicin toxicity and expression of basolateral transporters. Dominguez JH, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F245–53

Evidence for the existence of a carrier–mediated folate uptake mechanism in human colonic luminal membranes. Dudeja PK, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1408–15

Functional differences in lipid metabolism in resting skeletal muscle of various fiber types. Dyck DJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E340–51

Localization and regulation of the rat renal Na(+)–K(+)–2Cl– cotransporter, BSC–1. Ecelbarger CA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F619–28

Metabolic acid–base influences on renal thiazide receptor density. Fanestil DD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R2004–8

Immunohistochemical localization of cysteine–rich intestinal protein in rat small intestine. Fernandes PR, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G751–9

Free radicals enhance Na+/Ca2+ exchange in ventricular myocytes. Goldhaber JI. **Am J Physiol** 1996 Sep;271(3 Pt 2):H823–33

In situ localization and osmotic regulation of the Na(+)–myo–inositol cotransporter in rat brain. Ibsen L, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F877–85

Small GTP–binding protein, Rab6, is associated with secretory granules in atrial myocytes. Iida H, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1594–601

Acid–induced stimulation of Na–Pi cotransport in OK cells: molecular characterization and effect of dexamethasone. Jehle AW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F396–403

Transient expression of oatp organic anion transporter in mammalian cells: identification of candidate substrates. Kanai N, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F319–25

Estradiol 17 beta–D–glucuronide is a high–affinity substrate for oatp organic anion transporter. Kanai N, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F326–31

Mechanism of swelling activation of K–Cl cotransport in inside–out vesicles of LK sheep erythrocyte membranes. Kelley SJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1122–30

Differential expression of cysteine–rich intestinal protein in liver and intestine in CCl4–induced inflammation. Khoo C, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G613–8

Ultramicrodetermination of vasopressin–regulated urea transporter protein in microdissected renal tubules. Kishore BK, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F531–7

Furosemide–induced airway relaxation in guinea pigs: relation to Na–K–2Cl cotransporter function. Lavallee SL, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L211–6

Phorbol ester and okadaic acid regulation of Na–2Cl–K cotransport in rabbit tracheal epithelial cells. Liedtke CM, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C338–46

Age–related enhancement of 5–lipoxygenase metabolic capacity in cattle alveolar macrophages. Lu MC, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L547–54

Cytoplasmic codiffusion of fatty acids is not specific for fatty acid binding protein. Luxon BA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C859–67

Regulatory phosphorylation of the secretory Na–K–Cl cotransporter: modulation by cytoplasmic Cl. Lytle C, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C437–48

Role of the lactate transporter (MCT1) in skeletal muscles. McCullagh KJ, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E143–50

Chronic electrical stimulation increases MCT1 and lactate uptake in red and white skeletal muscle. McCullagh KJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E239–46

Functional differentiation of the human red blood cell and kidney urea transporters. Martial S, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1264–8

Acute modulation of active carrier–mediated brain–to–blood transport of corticotropin–releasing hormone. Martins JM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E312–9

Effects of F–actin stabilization or disassembly on epithelial Cl– secretion and Na–K–2Cl cotransport. Matthews JB, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C254–62

Fluorescence imaging study of organic anion transport from renal proximal tubule cell to lumen. Miller DS, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F508–20

Kinetics and osmoregulation of Na(+)–and Cl(–)–dependent betaine transporter in rat renal medulla. Moeckel GW, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):F100–6

Na+–independent transport of bipolar and cationic amino acids across the luminal membrane of the small intestine. Munck BG, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1060–8

Mercuric chloride uncouples glutamate uptake from the countertransport of hydroxyl equivalents. Nagaraja TN, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1487–93

Phosphate transport in renal cell cultures of gy mice: evidence of a single defect in X–linked hypophosphatemia. Nesbitt T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F113–9

Molecular cloning and functional expression of a sodium–dicarboxylate cotransporter from human kidney. Pajor AM. **Am J Physiol** 1996 Apr;270(4 Pt 2):F642–8

Functional differences between rabbit and human Na(+)–dicarboxylate cotransporters, NaDC–1 and hNaDC–1. Pajor AM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F1093–9

Ion transport systems in human labial acinar cells. Paulais M, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G213–9

Expression of the Na(+)–K(+)–2Cl– cotransporter BSC2 in the nervous system. Plotkin MD, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C173–83

Fatty acid regulation of fatty acid–binding protein expression in the small intestine. Poirier H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G289–95

Expression of proximal tubular Na–Pi and Na–SO4 cotransporters in MDCK and LLC–PK1 cells by transfection. Quabius ES, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F220–8

Tissue specificity and alternative splicing of the Na+/Ca2+ exchanger isoforms NCX1, NCX2, and NCX3 in rat. Quednau BD, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1250–61

Human monocytes lose 5–lipoxygenase and FLAP as they mature into monocyte–derived macrophages in vitro. Ring WL, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C372–7

Na+/Ca2+ exchanger in Drosophila: cloning, expression, and transport differences. Ruknudin A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C257–65

Bovine adrenal endothelial cells express nucleoside transporters nonregulated by protein kinases A and C. Sen RP, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C504–10

Taurine reabsorption by a carrier interacting with furosemide in short and long Henle's loops of rat nephrons. Silbernagl S, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):F205–13

Ethinyl estradiol cholestasis involves alterations in expression of liver sinusoidal transporters. Simon FR, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1043–52

Astroglial–mediated phosphorylation of the Na–K–Cl cotransporter in brain microvessel endothelial cells. Sun D, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C620–7

IL–6 secreted by astroglial cells regulates Na–K–Cl cotransport in brain microvessel endothelial cells. Sun D, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1829–35

Attenuation of heat shock protein expression by coronary occlusion in hypertrophied hearts. Tajima M, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H526–33

Posttranscriptional mechanisms regulate ontogenic changes in rat renal sodium–phosphate transporter. Taufiq S, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R134–41

Na–K–2Cl cotransporters are present and regulated in simian eccrine clear cells. Toyomoto T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R270–7

Growth hormone–binding protein enhances growth hormone activity in vivo. Turyn D, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 1):E549–56

Characterization and distribution of the neuronal glutamate transporter EAAC1 in rat brain. Velaz–Faircloth M, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C67–75

Adrenal steroids stimulate thiazide–sensitive NaCl transport by rat renal distal tubules. Velázquez H, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F211–9

Potassium depletion and acid–base transporters in rat kidney: differential effect of hypophysectomy. Wang Z, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F736–43

Structural and functional analysis of Na+/Ca2+ exchange in distal convoluted tubule cells. White KE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F560–70

A model for the kinetic mechanism of sodium–coupled L–alanine transport in LLC–PK1 cells. Wilson JJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C49–56

Localization of bumetanide– and thiazide–sensitive Na–K–Cl cotransporters along the rat nephron. Yang T, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F931–9

Preparation of functionally active [35S]leptin for mapping its receptors in the brain. Guan XM, et al. **Anal Biochem** 1997 Apr 5;247(1):175–7

Construction of biotinylated firefly luciferases using biotin acceptor peptides. Tatsumi H, et al. **Anal Biochem** 1996 Dec 1;243(1):176–80

Human norepinephrine transporter kinetics using rotating disk electrode voltammetry. Burnette WB, et al. **Anal Chem** 1996 Sep 1;68(17):2932–8

Differential distribution of the glutamate transporters GLT1 and rEAAC1 in rat cerebral cortex and thalamus: an in situ hybridization analysis. Torp R, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):317–26

Ontogenic and glucocorticoid–accelerated expression of rat 14 kDa bile acid–binding protein. Gong YZ, et al. **Anat Rec** 1996 Jul;245(3):532–8

Antibody immunoglobulin G (IgG) against human prostatic specific antigen (PSA) as a carrier protein for chemotherapeutic drugs to human prostate tumors: Part 1. A double immunofluorescence analysis. Sinha AA, et al. **Anat Rec** 1996 Aug;245(4):652–61

Spatial diversity of chloride transporters in hippocampal neurons. Hara M, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:421–3

Anti–idiotypic antibody identifies a consensus recognition site for phosphatidylserine common to protein kinase C and other cellular phosphatidylserine–binding proteins. Igarashi K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:536–9

Dissection of dopamine and cocaine binding sites on the rat dopamine transporter expressed in COS cells. Kitayama S, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:388–93 (13 ref.)

Peroxisomes contain an enzyme with 17 beta–estradiol dehydrogenase, fatty acid hydratase/dehydrogenase, and sterol carrier activity. Markus M, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:691–3

Cholesteryl ester transfer protein and atherogenesis. Tall A, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:178–82; discussion 182–4 (23 ref.)

Striatal dopamine, dopamine transporter, and vesicular monoamine transporter in chronic cocaine users. Wilson JM, et al. **Ann Neurol** 1996 Sep;40(3):428–39

The role of vesicular transport proteins in synaptic transmission and neural degeneration. Liu Y, et al. **Annu Rev Neurosci** 1997;20:125–56 (178 ref.)

RNA transport. Nakielny S, et al. **Annu Rev Neurosci** 1997; 20:269–301 (211 ref.)

Intestinal elimination of ofloxacin enantiomers in the rat: evidence of a carrier–mediated process. Rabbaa L, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2126–30

Specific interaction between beta–lactams and soluble penicillin–binding protein 2a from methicillin–resistant Staphylococcus aureus: development of a chromogenic assay. Roychoudhury S, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2075–9

Structure–activity relationship of carbacephalosporins and cephalosporins: antibacterial activity and interaction with the intestinal proton–dependent dipeptide transport carrier of Caco–2 cells. Snyder NJ, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1649–57

The influence of polarized epithelial (Caco–2) cell differentiation on the cellular binding of phosphodiester and phosphorothioate oligonucleotides. Akhtar S, et al. **Antisense Nucleic Acid Drug Dev** 1996 Fall;6(3):197–206

Human placental Fc gamma–binding proteins in the maternofetal transfer of IgG. Kristoffersen EK. **APMIS Suppl** 1996;64:5–36 (375 ref.)

Altered binding of the Cry1Ac toxin to larval membranes but not to the toxin–binding protein in Plodia interpunctella selected for resistance to different Bacillus thuringiensis isolates. Mohammed SI, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4168–73

Effect of detergents on ligand binding and translocation activities of solubilized/reconstituted nucleoside transporters. Hammond JR, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):313–22

Crovidisin, a collagen–binding protein isolated from snake venom of Crotalus viridis, prevents platelet–collagen interaction. Liu CZ, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):291–9

Tissue–specific distribution of a peroxisomal 46–kDa protein related to the 58–kDa protein (sterol carrier protein x;

sterol carrier protein 2/3-oxoacyl-CoA thiolase). Ossendorp BC, et al. **Arch Biochem Biophys** 1996 Oct 15; 334(2):251-60

Multiple routes and regulation by tyrosine phosphorylation characterize the ATP-dependent transport of 2,4-dinitrophenyl S-glutathione in inside-out vesicles from human erythrocytes. Saxena M, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):173-82

Association of HSP60-like proteins with the L-system amino acid transporter. Woodlock TJ, et al. **Arch Biochem Biophys** 1997 Feb 1;338(1):50-6

An immunohistochemical localization of transferrin binding protein in the chicken respiratory tract. Cho SS, et al. **Arch Histol Cytol** 1996 Oct;59(4):369-73

Purification of adult Drosophila melanogaster lipophorin and its role in hydrocarbon transport. Pho DB, et al. **Arch Insect Biochem Physiol** 1996;31(3):289-303

Lipophorin levels in the yellow fever mosquito, Aedes aegypti, and the effect of feeding. Van Heusden MC, et al. **Arch Insect Biochem Physiol** 1997;34(3):301-12

Entamoeba histolytica: partial cloning and expression of cDNAs encoding a 30 kDa collagen-binding protein. Jiménez-Delgadillo B, et al. **Arch Med Res** 1997;28 Spec No:173-4

Beta-adrenergic-induced calcium efflux in rat parotid gland. Is mitochondrial Na+/Ca2+ exchange involved? Dreux C, et al. **Arch Physiol Biochem** 1997 Apr;105(2):197-202

Lipid modifications of microsomes isolated from villus and crypt zones of bovine intestinal mucosa: relationship with fatty acid binding protein. Furlan L, et al. **Arch Physiol Biochem** 1997 Feb;105(1):86-91

Identification and initial characterization of serum growth hormone binding protein in the turtle Chrysemys dorbigni. Sotelo AI, et al. **Arch Physiol Biochem** 1997 Apr; 105(2):167-74

Methylmercury transport across the placenta via neutral amino acid carrier. Kajiwara Y, et al. **Arch Toxicol** 1996; 70(5):310-4

Role of Lp A-I and Lp A-I/A-II in cholesteryl ester transfer protein-mediated neutral lipid transfer. Studies in normal subjects and in hypertriglyceridemic patients before and after fenofibrate therapy. McPherson R, et al. **Arterioscler Thromb Vasc Biol** 1996 Nov;16(11):1340-6

Cholesteryl ester transfer protein activity enhances plasma cholesteryl ester formation. Studies in CETP transgenic mice and human genetic CETP deficiency. Oliveira HC, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1045-52

Non-insulin dependent diabetes and reverse cholesterol transport. Berthezene F. **Atherosclerosis** 1996 Jul;124 Suppl:S39-42 (9 ref.)

Clinical characteristics of double heterozygotes with familial hypercholesterolemia and cholesteryl ester transfer protein deficiency. Haraki T, et al. **Atherosclerosis** 1997 Jul 25; 132(2):229-36

Transformation of high density lipoprotein 2 particles by hepatic lipase and phospholipid transfer protein. Marques-Vidal P, et al. **Atherosclerosis** 1997 Aug; 133(1):87-95

Molecular basis of inherited growth hormone resistance in childhood. Amselem S, et al. **Baillieres Clin Endocrinol Metab** 1996 Jul;10(3):353-69 (63 ref.)

Laron syndrome: typical and atypical forms. Woods KA, et al. **Baillieres Clin Endocrinol Metab** 1996 Jul; 10(3):371-87 (71 ref.)

Sodium-calcium exchange: recent advances. Hryshko LV, et al. **Basic Res Cardiol** 1997;92 Suppl 1:45-51 (90 ref.)

Expression and function of the cardiac Na+/Ca2+ exchanger in postnatal development of the rat, in experimental-induced cardiac hypertrophy and in the failing human heart. Studer R, et al. **Basic Res Cardiol** 1997; 92 Suppl 1:53-8 (34 ref.)

Serotonin2 receptors and the serotonin transporter in the schizophrenic brain. Dean B, et al. **Behav Brain Res** 1996; 73(1-2):169-75

Inhibition of the binding of SNAP-23 to syntaxin 4 by Munc18c. Araki S, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):257-62

Tissue distribution and abundance of human FKBP51, and FK506-binding protein that can mediate calcineurin inhibition. Baughman G, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):437-43

Role of Na+/Ca2+ exchanger in preventing Na+ overload and hepatocyte injury: opposite effects of extracellular and intracellular Ca2+ chelation. Carini R, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):107-10

Expression and functional characterization of the mammalian intestinal peptide transporter PepT1 in the methylotropic yeast Pichia pastoris. Döring F, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):656-62

Identification and characterization of a novel human cortistatin-like peptide. Fukusumi S, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):157-63

Distribution of protein inhibitor of neuronal nitric oxide synthase in rat brain. Greenwood MT, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):617-21

Localization of an exchange inhibitory peptide (XIP) binding site on the cardiac sodium-calcium exchanger. Hale CC, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):113-7

Expression of p16INK4a suppresses the unbounded and anchorage-independent growth of a glioblastoma cell line that lacks p16INK4a. Higashi H, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):743-50

Expression in Escherichia coli, phosphorylation with cAMP-dependent protein kinase and proteolysis by calpain of a 71-kDa domain of human endothelial actin binding protein. Jay D, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):555-8

Biochemical characterization of calsequestrin-binding 30-kDa protein in sarcoplasmic reticulum of skeletal muscle. Kagari T, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):700-6

Membrane associated fatty acid binding protein (FABPpm) in human skeletal muscle is increased by endurance training. Kiens B, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):463-5

Do leptin receptors play a functional role in the endocrine pancreas? Leclercq-Meyer V, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):794-8

Botulinum E toxin light chain does not cleave SNAP-23 and only partially impairs insulin stimulation of GLUT4 translocation in 3T3-L1 cells. Macaulay SL, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):388-93

Limited proteolysis by chymotrypsin of midkine and inhibition by heparin binding. Matsuda Y, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):176-81

Identification of two isoforms of the vesicle-membrane fusion protein SNAP-23 in human neutrophils and HL-60 cells. Mollinedo F, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):808-12

A short form of leptin receptor performs signal transduction. Murakami T, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):26-9

Alternatively spliced isoforms of the Na+/Ca2+ exchanger in the guinea pig cochlea. Oshima T, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):737-41

Interaction of DA41, a DAN-binding protein, with the epidermal growth factor-like protein, S(1-5). Ozaki T, et al. **Biochem Biophys Res Commun** 1997 Aug 18; 237(2):245-50

Phosphoinositide signalling in nuclei of Friend cells: DMSO-induced differentiation reduces the association of phosphatidylinositol-transfer protein with the nucleus. Rubbini S, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):302-5

Cloning and characterization of a pH-sensing regulatory factor that modulates transport activity of the human H+/peptide cotransporter, PEPT1. Saito H, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):577-82

Cloning of a cDNA encoding a novel importin-alpha homologue, Qip1: discrimination of Qip1 and Rch1 from hSrp1 by their ability to interact with DNA helicase Q1/RecQL. Seki T, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):48-53

Effects of exogenous p16INK4a on growth of cells with various status of cell-cycle regulators. Suzuki-Takahashi I, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):386-92

DNA binding properties of the hfq gene product of Escherichia coli. Takada A, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):576-9

Bradykinin-stimulated protein tyrosine phosphorylation promotes endothelial nitric oxide synthase translocation to the cytoskeleton. Venema VJ, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):703-10

Sterol carrier protein X (SCPx) is a peroxisomal branched-chain beta-ketothiolase specifically reacting with 3-oxo-pristanoyl-CoA: a new, unique role for SCPx in branched-chain fatty acid metabolism in peroxisomes. Wanders RJ, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):565-9

Tissue distribution of SNAP-23 and its subcellular localization in 3T3-L1 cells. Wong PP, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):64-8

Functional expression of Na-Ca exchanger clones measured with the fluorescent Ca(2+)-indicating dye fluo-3. Schnetkamp PP. **Biochem Cell Biol** 1996;74(4):535-9

Carnitine palmitoyltransferase and acyl-coA binding protein: two more players in the membrane phospholipid fatty acid turnover of human red cells? [letter] Arduini A, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):811-4

Expression of the surface antigen 4F2hc affects system-L-like neutral-amino-acid-transport activity in mammalian cells. Bröer S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):535-41

Binding of ATP and ATP analogues to the uncoating ATPase Hsc70 (70 kDa heat-shock cognate protein). Buxbaum E, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):923-9

Regulation of Na+,K(+)-ATPase and the Na+/K+/Cl- co-transporter in the renal epithelial cell line NBL-1 under osmotic stress. Ferrer-Martinez A, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):337-42

Fatty acyl-CoA-acyl-CoA-binding protein complexes activate the Ca2+ release channel of skeletal muscle sarcoplasmic reticulum. Fulceri R, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):423-8

Locally formed 5-hydroxytryptamine stimulates phosphate transport in cultured opossum kidney cells and in rat kidney. Hafdi Z, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):615-21

Interaction of Nck-associated protein 1 with activated GTP-binding protein Rac. Kitamura Y, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):873-8

Co-operation of phosphatidylinositol transfer protein with phosphoinositide 3-kinase gamma in the formylmethionyl-leucylphenylalanine-dependent production of phosphatidylinositol 3,4,5-trisphosphate in human neutrophils. Kular G, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):299-301

Identification of a lysosomal protein causing lipid transfer, using a fluorescence assay designed to monitor membrane fusion between rat liver endosomes and lysosomes. Kuwana T, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):937-46

Changes induced by fasting and dietetic obesity in thermogenic parameters of rat brown adipose tissue mitochondrial subpopulations. Matamala JC, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):529-34

Up-regulation of the expression of the gene for liver fatty acid-binding protein by long-chain fatty acids. Meunier-Durmort C, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):483-7

Biochemical characterization of the 49 kDa penicillin-binding protein of Mycobacterium smegmatis. Mukherjee T, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):197-200

Multiple components of arginine and phenylalanine transport induced in neutral and basic amino acid transporter-cRNA-injected Xenopus oocytes. Peter GJ, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):915-22

Deletion of 24 amino acids from the C-terminus of phosphatidylinositol transfer protein causes loss of phospholipase C-mediated inositol lipid signalling. Prosser S, et al. **Biochem J** 1997 May 15;324 (Pt 1):19-23

Evidence for two types of phosphate translocators in sweet-pepper (Capsicum annum L.) fruit chromoplasts. Quick WP, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):7-10

Effects of charged lipids on the interaction of cholesteryl ester transfer protein with lipid microemulsions. Rajaram OV, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):159-65

MOAT4, a novel multispecific organic-anion transporter for glucuronides and mercapturates in mouse L1210 cells and human erythrocytes. Saxena M, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):273-81

Evidence for interaction of the fusion protein alpha-SNAP with membrane lipid. Steel GJ, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):511-8

The binding of cholesterol and bile salts to recombinant rat liver fatty acid-binding protein. Thumser AE, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):729-33

Osmoregulated taurine transport in H4IIE hepatoma cells and perfused rat liver. Warskulat U, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):683-90

Characterisation of lipid-protein interactions using a surface plasmon resonance biosensor. Rajaram OV, et al. **Biochem Mol Biol Int** 1996 May;39(1):31-9

ATP/ADP antiporter- and aspartate/glutamate antiporter-mediated fatty acid-induced uncoupling of liver mitochondria in incubation media differing in ion composition. Samartsev VN, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):29-34

Characterization of human proximal tubular cells after hypoxic preconditioning: constitutive and hypoxia-induced expression of heat shock proteins HSP70 (A, B, and C), HSC70, and HSP90. Turman MA, et al. **Biochem Mol Med** 1997 Feb;60(1):49-58

Effects of a chronic lithium treatment on central dopamine neurotransporters. Carli M, et al. **Biochem Pharmacol** 1997 Aug 1;54(3):391-7

Functional expression of human intestinal Na+-dependent and Na+-independent nucleoside transporters in Xenopus laevis oocytes. Chandrasena G, et al. **Biochem Pharmacol** 1997 Jun 15;53(12):1909-18

Model for estimating dopamine transporter occupancy and subsequent increases in synaptic dopamine using positron emission tomography and carbon-11-labeled cocaine. Gatley SJ, et al. **Biochem Pharmacol** 1997 Jan 10; 53(1):43-52

Characterization of a novel adenosine binding protein sensitive to cyclic AMP in rat brain cytosolic and particulate fractions. Lorenzen A, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1375-85

Binding domains for blockers and substrates on the cloned human dopamine transporter studied by protection against N-ethylmaleimide-induced reduction of 2 beta-carbomethoxy-3 beta-(4-fluorophenyl)[3H]tropane ([3H]WIN 35,428) binding. Reith ME, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1435-46

Asymmetric distribution of the plasma membrane fatty acid-binding protein (FABPpm) in the human placenta. Campbell FM, et al. **Biochem Soc Trans** 1996 May; 24(2):249S

alpha-Tocopherol-binding protein in the cytosol of the human placenta. Gordon MJ, et al. **Biochem Soc Trans** 1996 May;24(2):202S

Transcriptional regulation of the betaine/gamma-aminobutyric acid transporter by hypertonicity. Kwon HM. **Biochem Soc Trans** 1996 Aug; 24(3):853-6 (27 ref.)

The refolding of hen egg white riboflavin binding protein. McClelland DA, et al. **Biochem Soc Trans** 1997 Feb; 25(1):94S

Mammalian amino acid transporters and their regulation: introduction. McGivan JD. **Biochem Soc Trans** 1996 Aug; 24(3):837-8 (3 ref.)

Interaction between anionic amino acids and the mammary tissue (Na(+)-glutamate) cotransporter. Millar ID, et al.

Biochem Soc Trans 1996 May;24(2):333S

Induction of high affinity glutamate transport activity by amino acid deprivation is dependent on cellular glutamate concentrations in renal epithelial cells does not involve an increase in the amount of transporter protein. Nicholson B, et al. **Biochem Soc Trans** 1996 Aug;24(3):481S

Role of the b(o,+)-like amino acid-transport system in the renal reabsorption of cystine and dibasic amino acids. Palacín M, et al. **Biochem Soc Trans** 1996 Aug;24(3):856–63 (53 ref.)

Nitric oxide binding and crystallization of recombinant nitrophorin I, a nitric oxide transport protein from the blood-sucking bug Rhodnius prolixus. Andersen JF, et al. **Biochemistry** 1997 Apr 15;36(15):4423–8

Specific cardiolipin binding interferes with labeling of sulfhydryl residues in the adenosine diphosphate/adenosine triphosphate carrier protein from beef heart mitochondria. Beyer K, et al. **Biochemistry** 1996 Dec 10;35(49):15784–90

Binding characterization of a putative cGMP transporter in the cell membrane of human erythrocytes. Boadu E, et al. **Biochemistry** 1997 Sep 9;36(36):10954–8

Botulinum neurotoxin B inhibits insulin-stimulated glucose uptake into 3T3-L1 adipocytes and cleaves cellubrevin unlike type A toxin which failed to proteolyze the SNAP-23 present. Chen F, et al. **Biochemistry** 1997 May 13;36(19):5719–28

8-cyclopentyl-1,3-dipropylxanthine and other xanthines differentially bind to the wild-type and delta F508 first nucleotide binding fold (NBF-1) domains of the cystic fibrosis transmembrane conductance regulator. Cohen BE, et al. **Biochemistry** 1997 May 27;36(21):6455–61

Identification of the histidyl residue obligatory for the catalytic activity of the human H+/peptide cotransporters PEPT1 and PEPT2. Fei YJ, et al. **Biochemistry** 1997 Jan 14;36(2):452–60

Adipocyte fatty acid-binding protein: interaction with phospholipid membranes and thermal stability studied by FTIR spectroscopy. Gericke A, et al. **Biochemistry** 1997 Jul 8;36(27):8311–7

Deletion of amino acids 261–269 in the brown fat uncoupling protein converts the carrier into a pore. González-Barroso MM, et al. **Biochemistry** 1997 Sep 9;36(36):10930–5

C repeats of teh streptococcal M1 protein achieve the human serum albumin binding ability by flanking regions which stabilize the coiled-coil conformation. Gubbe K, et al. **Biochemistry** 1997 Jul 1;36(26):8107–13

Ligand binding alters the backbone mobility of intestinal fatty acid-binding protein as monitored by 15N NMR relaxation and 1H exchange. Hodsdon ME, et al. **Biochemistry** 1997 Feb 25;36(8):2278–90

Chloride channel properties of the uncoupling protein from brown adipose tissue mitochondria: a patch-clamp study. Huang SG, et al. **Biochemistry** 1996 Dec 24; 35(51):16806–14

The renal sodium/phosphate symporters: evidence for different functional oligomeric states. Jetté M, et al. **Biochemistry** 1996 Dec 3;35(48):15209–14

Isolation of two novel cDNAs whose products associate with the amino terminus of the E2F1 transcription factor. Jordan KL, et al. **Biochemistry** 1996 Sep 24;35(38):12320–8

The QM protein associates with ribosomes in the rough endoplasmic reticulum. Loftus TM, et al. **Biochemistry** 1997 Jul 8;36(27):8224–30

Differential phosphorylation of pp120 by insulin and insulin-like growth factor-1 receptors: role for the C-terminal domain of the beta-subunit. Najjar SM, et al. **Biochemistry** 1997 Jun 3;36(22):6827–34

Structure of a selectin-like mutant of mannose-binding protein complexed with sialylated and sulfated Lewis(x) oligosaccharides. Ng KK, et al. **Biochemistry** 1997 Feb 4; 36(5):979–88

Binding of immunophilins to the 90 kDa heat shock protein (hsp90) via a tetratricopeptide repeat domain is a conserved protein interaction in plants. Owens-Grillo JK, et al. **Biochemistry** 1996 Dec 3;35(48):15249–55

Conformational and functional properties of an undecapeptide epitope fused with the C-terminal end of the maltose binding protein. Rondard P, et al. **Biochemistry** 1997 Jul 22;36(29):8954–61

Mutational analysis of an antigenic peptide shows recognition in a loop conformation. Rondard P, et al. **Biochemistry** 1997 Jul 22;36(29):8962–8

Immunosuppressor binding to the immunophilin FKBP59 affects the local structural dynamics of a surface beta-strand: time-resolved fluorescence study. Rouviere N, et al. **Biochemistry** 1997 Jun 17;36(24):7339–52

Identification of amino acid residues that determine the differential ligand specificities of folate receptors alpha and beta. Shen F, et al. **Biochemistry** 1997 May 20; 36(20):6157–63

An extracellular loop region of the serotonin transporter may be involved in the translocation mechanism. Stephan MM, et al. **Biochemistry** 1997 Feb 11;36(6):1322–8

The sterol carrier protein-2 fatty acid binding site: an NMR, circular dichroic, and fluorescence spectroscopic determination. Stolowich NJ, et al. **Biochemistry** 1997 Feb 18;36(7):1719–29

Truncations of the C-terminus have different effects on the conformation and activity of phosphatidylinositol transfer protein. Voziyan PA, et al. **Biochemistry** 1996 Sep 24; 35(38):12526–31

Importance of phospholipid in the folding and conformation of phosphatidylinositol transfer protein: comparison of apo and holo species. Voziyan PA, et al. **Biochemistry** 1997 Aug 19;36(33):10082–8

Variant GPI structure in relation to membrane-associated functions of a murine folate receptor. Wang X, et al. **Biochemistry** 1996 Dec 17;35(50):16305–12

Identification of the pH sensor for nucleotide binding in the uncoupling protein from brown adipose tissue. Winkler E, et al. **Biochemistry** 1997 Jan 7;36(1):148–55

Influence of proton and essential histidyl residues on the transport kinetics of the H+/peptide cotransport systems in intestine (PEPT 1) and kidney (PEPT 2). Brandsch M, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):251–62

Characterization of a non-specific lipid transfer protein associated with the peroxisomal membrane of the yeast, Saccharomyces cerevisiae. Ceolotto C, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):71–8

Inhibition of cholesteryl ester transfer protein by apolipoproteins, lipopolysaccharides, and cholesteryl sulfate. Connolly DT, et al. **Biochim Biophys Acta** 1996 Nov 22;1304(2):145–60

Interaction of anionic cephalosporins with the intestinal and renal peptide transporters PEPT 1 and PEPT 2. Ganapathy ME, et al. **Biochim Biophys Acta** 1997 Mar 13; 1324(2):296–308

Adaptive regulation of MDCK cell taurine transporter (pNCT) mRNA: transcription of pNCT gene is regulated by external taurine concentration. Han X, et al. **Biochim Biophys Acta** 1997 Apr 10;1351(3):296–304

The anion transporter and a 28 kDa protein are selectively photolabeled by p-azidobenzylphlorizin under conditions that alter RBC morphology, flexibility, and volume. Hoefner DM, et al. **Biochim Biophys Acta** 1997 Jul 25; 1327(2):231–41

Nickel is a specific antagonist for the catabolism of activated alpha 2-macroglobulin. Kancha RK, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):231–40

Occlusion of K+ in the Na+/K+/2Cl- cotransporter of Ehrlich ascites tumor cells. Krarup T, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):97–108

Determination of Na+/Cl-, Na+/HCO3- and Na+/K+/2Cl- co-transporter activity in corneal endothelial cell plasma membrane vesicles. Lane JR, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):237–42

Substrate specificity of the mammary tissue anionic amino acid carrier operating in the cotransport and exchange modes. Millar ID, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):92–102

Swelling-induced activation of Na+,K+,2Cl- cotransport in C6 glioma cells: kinetic properties and intracellular signalling mechanisms. Mongin AA, et al. **Biochim Biophys Acta** 1996 Dec 4;1285(2):229–36

Binding of two fluorescent cAMP analogues to type I and II regulatory subunits of cAMP-dependent protein kinases. Mucignat-Caretta C, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):81–90

Sterol carrier protein-2 mediated cholesterol esterification in transfected L-cell fibroblasts. Murphy EJ, et al. **Biochim Biophys Acta** 1997 Apr 21;1345(3):283–92

Interaction of substrates with the intestinal brush border membrane Na/phosphate cotransporter. Peerce BE. **Biochim Biophys Acta** 1997 Jan 14;1323(1):45–56

Involvement of aspartate/glutamate antiporter in fatty acid-induced uncoupling of liver mitochondria. Samartsev VN, et al. **Biochim Biophys Acta** 1997 Apr 11; 1319(2-3):251–7

Effect of dietary omega-3 eicosapentaenoic acid supplements on cholesteryl ester transfer from HDL in cholesterol-fed rabbits. Sugano M, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):17–24

Tyrosine phosphorylation-and epidermal growth factor-dependent regulation of the sodium-coupled amino acid transporter B0 in the human placental choriocarcinoma cell line JAR. Torres-Zamorano v, et al. **Biochim Biophys Acta** 1997 May 27;1356(3):258–70

Catalysis of the refolding of urea denatured creatine kinase by peptidyl-prolyl cis-trans isomerase. Yang HP, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):147–50

An investigation into the ability of C-terminal homologues of Escherichia coli low molecular mass penicillin-binding proteins 4, 5 and 6 to undergo membrane interaction. Harris F, et al. **Biochimie** 1997 Apr;79(4):171–4

Regulation of gene expression by fatty acids: special reference to fatty acid-binding protein (FABP). Niot I, et al. **Biochimie** 1997 Feb-Mar;79(2-3):129–33

Boar spermadhesins AQN-1 and AQN-3: oligosaccharide and zona pellucida binding characteristics. Calvete JJ, et al. **Biol Chem** 1996 Jul-Aug;377(7-8):521–7

Smooth muscle fatty acid binding protein: a regulator of smooth muscle contraction? Götz FM, et al. **Biol Chem** 1996 Oct;377(10):633–8

Progelatinase B forms from human neutrophils. complex formation of monomer/lipocalin with TIMP-1. Kolkenbrock H, et al. **Biol Chem** 1996 Jul-Aug; 377(7-8):529–33

Using molecular repertoires to identify high-affinity peptide ligands of the WW domain of human and mouse YAP. Linn H, et al. **Biol Chem** 1997 Jun;378(6):531–7

Biochemistry, regulation and potential function of kallistatin. Chao J, et al. **Biol Chem Hoppe Seyler** 1995 Dec; 376(12):705–13 (69 ref.)

GSH transporters: molecular characterization and role in GSH homeostasis. Kaplowitz N, et al. **Biol Chem Hoppe Seyler** 1996 May;377(5):267–73 (58 ref.)

The contribution of transporter-dependent uptake to fetal catecholamine clearance. Bzoskie L, et al. **Biol Neonate** 1997;71(2):102–10

Characterization of lactoferrin-binding proteins of human macrophage membrane: multiple species of lactoferrin-binding proteins with polylactosamine-binding ability. Eda S, et al. **Biol Pharm Bull** 1997 Feb;20(2):127–33

Characterization of cyclophilin 40: highly conserved protein that directly associates with Hsp90. Yokoi H, et al. **Biol Pharm Bull** 1996 Apr;19(4):506–11

Serotonin transporter binding sites and mRNA levels in depressed persons committing suicide. Little KY, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1156–64

Carrier-mediated gamma-aminobutyric acid uptake in human spermatozoa indicating the presence of a high-affinity gamma-aminobutyric acid transport protein. Aanesen A, et al. **Biol Reprod** 1996 Apr;54(4):841–6

Cyclophilin A is present in rat germ cells and is associated with spermatocyte apoptosis. Reproductive Toxicology Group. Wine RN, et al. **Biol Reprod** 1997 Feb;56(2):439–46

Glycopeptide mimics of mammalian Man9GlcNAc2. Ligand binding to mannan-binding proteins (MBPs). Franzyk H, et al. **Bioorg Med Chem** 1996 Nov;4(11):1881–99

Unitary cardiac Na+, Ca2+ exchange current magnitudes determined from channel-like noise and charge movements of ion transport. Hilgemann DW. **Biophys J** 1996 Aug; 71(2):759–68

Rapid charge translocation by the cardiac Na(+)-Ca2+ exchanger after a Ca2+ concentration jump. Kappl M, et al. **Biophys J** 1996 Nov;71(5):2473–85

Hisactophilin-mediated binding of actin to lipid lamellae: a neutron reflectivity study of protein membrane coupling. Naumann C, et al. **Biophys J** 1996 Aug;71(2):811–23

Current-voltage relations and steady-state characteristics of Na+-Ca2+ exchange: characterization of the eight-state consecutive transport model. Omelchenko A, et al. **Biophys J** 1996 Oct;71(4):1751–63

Inner sarcolemmal leaflet Ca(2+) binding: its role in cardiac Na/Ca exchange. Wang SY, et al. **Biophys J** 1996 May; 70(5):2266–74

Conformational polymorphism in peptidic and nonpeptidic drug molecules. Taylor P, et al. **Biopolymers** 1996; 40(5):585–92

Sensitivity of acute leukemia cells to cytarabine is a correlate of cellular es nucleoside transporter site content measured by flow cytometry with SAENTA-fluorescein. Gati WP, et al. **Blood** 1997 Jul 1;90(1):346–53

Sorting of the specific granule protein, NGAL, during granulocytic maturation of HL-60 cells. Le Cabec V, et al. **Blood** 1997 Mar 15;89(6):2113–21

The effect of cisplatin pretreatment on the accumulation of MIBG by neuroblastoma cells in vitro. Armour A, et al. **Br J Cancer** 1997;75(4):470–6

Confocal microscopy visualization of antifolate uptake by the reduced folate carrier in human leukaemic cells. Jolivet J, et al. **Br J Cancer** 1997;76(6):734–8

Relationship between folate-binding protein expression and cisplatin sensitivity in ovarian carcinoma cell lines. Ottone F, et al. **Br J Cancer** 1997;76(1):77–82

Infrequent methylation of CDKN2A(MTS1/p16) and rare mutation of both CDKN2A and CDKN2B(MTS2/p15) in primary astrocytic tumours. Schmidt EE, et al. **Br J Cancer** 1997;75(1):2–8

Induction by low Na+ or Cl- of cocaine sensitive carrier-mediated efflux of amines from cells transfected with the cloned human catecholamine transporters. Pifl C, et al. **Br J Pharmacol** 1997 May;121(2):205–12

The influence of bumetanide on the membrane potential of mouse skeletal muscle cells in isotonic and hypertonic media. van Mil HG, et al. **Br J Pharmacol** 1997 Jan; 120(1):39–44

Opposite modulatory effects of ovarian hormones on rat brain dopamine and serotonin transporters. Attali G, et al. **Brain Res** 1997 May 9;756(1-2):153–9

Urocortin interaction with corticotropin-releasing factor (CRF) binding protein (CRF-BP): a novel mechanism for elevating "free' CRF levels in human brain. Behan DP, et al. **Brain Res** 1996 Jul 1;725(2):263–7

Characterization of a sheep brain corticotropin releasing factor binding protein [published erratum appears in Brain Res 1996 Sep 2;732(1-2):267] Behan DP, et al. **Brain Res** 1996 Feb 19;709(2):265–74

Changes in serotonin and norepinephrine uptake sites after chronic cocaine: pre- vs. post-withdrawal effects. Belej T, et al. **Brain Res** 1996 Oct 14;736(1-2):287–96

Increased expression of the peripheral-type benzodiazepine receptor-isoquinoline carboxamide binding protein mRNA in brain following portacaval anastomosis. Desjardins P, et al. **Brain Res** 1997 May 30;758(1-2):255–8

The basic amino acid transporter (rBAT)-like immunoreactivity in paraventricular and supraoptic magnocellular neurons of the rat hypothalamus. Hisano S, et al. **Brain Res** 1996 Feb 26;710(1-2):299–302

Up-regulation of adenosine transporter-binding sites in striatum and hypothalamus of opiate tolerant mice. Kaplan GB, et al. **Brain Res** 1997 Jul 25;763(2):215–20

Cell surface APP751 forms complexes with protease nexin 2 ligands and is internalized via the low density lipoprotein receptor-related protein (LRP). Knauer MF, et al. **Brain Res** 1996 Nov 18;740(1-2):6–14

Quantitative subregional distribution of serotonin1A receptors and serotonin transporters in the human dorsal raphe. Stockmeier CA, et al. **Brain Res** 1996 Jul 15; 727(1–2):1–12

Postnatal development of the dopamine transporter: a quantitative autoradiographic study [published erratum appears in Brain Res Dev Brain Res 1996 Jan 2;98(1):150] Coulter CL, et al. **Brain Res Dev Brain Res** 1996 Apr 30; 92(2):172–81

Effect of the weaver mutation on the expression of dopamine membrane transporter, tyrosine hydroxylase and vesicular monoamine transporter in dopaminergic neurons of the substantia nigra and the ventral tegmental area. Adelbrecht C, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):291–300

Cloning and expression of the mouse serotonin transporter. Chang AS, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):185–92

Expression of dopamine transporter mRNA and its binding site in fetal nigral cells transplanted into the striatum of 6–OHDA lesioned rat. Fujita M, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):127–36

The 71 kDa glutamate–binding protein is increased in cerebellar granule cells after chronic ethanol treatment. Hoffman PL, et al. **Brain Res Mol Brain Res** 1996 Jul; 39(1–2):167–76

Neuronal and glial localization of two GABA transporters (GAT1 and GAT3) in the rat cerebellum. Itouji A, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):309–16

Sequence analysis and immunolocalisation of phosphatidylethanolamine binding protein (PBP) in human brain tissue. Moore C, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):74–8

Dopamine transporter gene expression in rat mesencephalic dopaminergic neurons is increased by direct interaction with target striatal cells in vitro. Perrone–Capano C, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):160–6

Differential distribution of the putative vesicular transporter for acetylcholine in the rat central nervous system. Roghani A, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):65–76

Effect of pentylenetetrazol on the expression of tyrosine hydroxylase mRNA and norepinephrine and dopamine transporter mRNA. Szot P, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):46–54

Localization of mRNA for fatty acid transport protein in developing and mature brain of rats. Utsunomiya A, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):217–22

The role of the cyclic AMP–responsive element binding protein (CREB) in hypoxic–ischemic brain damage and repair. Walton M, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):21–9

Functional trkB neurotrophin receptors are intrinsic components of the adult brain postsynaptic density. Wu K, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):286–90

Intracellular fatty acid–binding proteins: putting lower vertebrates in perspective. Londraville RL. **Braz J Med Biol Res** 1996 Jun;29(6):707–20 (109 ref.)

Midkine expression in human breast cancers: expression of truncated form. Miyashiro I, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):1–6

Prognostic value of the immunohistochemical detection of p16INK4 expression in nonsmall cell lung carcinoma. Taga S, et al. **Cancer** 1997 Aug 1;80(3):389–95

Alteration of midkine expression associated with chemically–induced differentiation in human neuroblastoma cells. Koshizawa SH, et al. **Cancer Lett** 1997 Jan 1;111(1–2):117–25

Active transport of glutathione S–conjugate in human colon adenocarcinoma cells. Zhang K, et al. **Cancer Lett** 1996 Nov 12;108(1):143–51

Loss of adipocyte–type fatty acid binding protein and other protein biomarkers is associated with progression of human bladder transitional cell carcinomas. Celis JE, et al. **Cancer Res** 1996 Oct 15;56(20):4782–90

Lovastatin induction of cyclin–dependent kinase inhibitors in human breast cells occurs in a cell cycle–independent fashion. Gray–Bablin J, et al. **Cancer Res** 1997 Feb 15; 57(4):604–9

Interactions between galectin–3 and Mac–2–binding protein mediate cell–cell adhesion. Inohara H, et al. **Cancer Res** 1996 Oct 1;56(19):4530–4

Altered p16INK4 and retinoblastoma protein status in non–small cell lung cancer: potential synergistic effect with altered p53 protein on proliferative activity. Kinoshita I, et al. **Cancer Res** 1996 Dec 15;56(24):5557–62

Methotrexate is excreted into the bile by canalicular multispecific organic anion transporter in rats. Masuda M, et al. **Cancer Res** 1997 Aug 15;57(16):3506–10

Loss of a novel mucin–like epithelial glycoprotein in oral and cervical squamous cell carcinomas. Nielsen PA, et al. **Cancer Res** 1997 Feb 15;57(4):634–40

The putative tumor suppressor BIN1 is a short–lived nuclear phosphoprotein, the localization of which is altered in malignant cells. Wechsler–Reya R, et al. **Cancer Res** 1997 Aug 1;57(15):3258–63

Synthesis and application of alpha–D–mannosyl clusters as photoaffinity ligands for mannose–binding proteins: concanavalin A as a model receptor. Lehmann J, et al. **Carbohydr Res** 1996 Nov 20;294:65–94

Deletion and differential expression of p16INK4a in mouse lung tumors. Belinsky SA, et al. **Carcinogenesis** 1997 Jan; 18(1):115–20

Mechanisms underlying depressed Na+/Ca2+ exchanger activity in the diabetic heart. Schaffer SW, et al. **Cardiovasc Res** 1997 Apr;34(1):129–36

Role of Tim23 as voltage sensor and presequence receptor in protein import into mitochondria. Bauer MF, et al. **Cell** 1996 Oct 4;87(1):33–41

The secretory granule protein syncollin binds to syntaxin in a Ca2(+)–sensitive manner. Edwardson JM, et al. **Cell** 1997 Jul 25;90(2):325–33

CRM1 is an export receptor for leucine–rich nuclear export signals [see comments] Fornerod M, et al. **Cell** 1997 Sep 19;90(6):1051–60. Comment in: Cell 1997 Sep 19;90(6):967–70.

Phosphorylation of residue 131 of HIV–1 matrix is not required for macrophage infection. Freed EO, et al. **Cell** 1997 Jan 24;88(2):171–3; discussion 173–4

Apoptosis meets signal transduction: elimination of a BAD influence [comment] Gajewski TF, et al. **Cell** 1996 Nov 15;87(4):589–92. Comment on: Cell 1996 Nov 15;87(4):619–28. Comment on: Cell 1996 Nov 15;87(4):629–38.

ATP–dependent positive supercoiling of DNA by 13S condensin: a biochemical implication for chromosome condensation. Kimura K, et al. **Cell** 1997 Aug 22; 90(4):625–34

A small ubiquitin–related polypeptide involved in targeting RanGAP1 to nuclear pore complex protein RanBP2. Mahajan R, et al. **Cell** 1997 Jan 10;88(1):97–107

The vesicle docking protein p115 binds GM130, a cis–Golgi matrix protein, in a mitotically regulated manner. Nakamura N, et al. **Cell** 1997 May 2;89(3):445–55

Visualization of ER–to–Golgi transport in living cells reveals a sequential mode of action for COPII and COPI. Scales SJ, et al. **Cell** 1997 Sep 19;90(6):1137–48

Oncogenic ras provokes premature cell senescence associated with accumulation of p53 and p16INK4a. Serrano M, et al. **Cell** 1997 Mar 7;88(5):593–602

Exportin 1 (Crm1p) is an essential nuclear export factor. Stade K, et al. **Cell** 1997 Sep 19;90(6):1041–50

Nuclear export receptors: from importin to exportin [comment] Ullman KS, et al. **Cell** 1997 Sep 19;90(6):967–70 (21 ref.). Comment on: Cell 1997 Sep 19;90(6):1051–60. Comment on: Cell 1997 Sep 19;90(6):1061–71.

Serine phosphorylation of death agonist BAD in response to survival factor results in binding to 14–3–3 not BCL–X(L) [see comments] Zha J, et al. **Cell** 1996 Nov 15;87(4):619–28. Comment in: Cell 1996 Nov 15;87(4):589–92.

Ricin–binding proteins along the endocytic pathway: the major endosomal ricin–binding protein is endosome–specific. Alami M, et al. **Cell Biol Int** 1997 Mar; 21(3):145–50

Opossum kidney cells take up L–DOPA through an organic cation potential–dependent and proton–independent transporter. Gomes P, et al. **Cell Biol Int** 1997 Apr; 21(4):249–55

Identification, expression pattern and potential activity of Na/Ca exchanger isoforms in rat pancreatic B–cells. Van Eylen F, et al. **Cell Calcium** 1997 Mar;21(3):185–93

p53–binding proteins in squamous cell carcinoma and normal human keratinocytes. Kumar MG, et al. **Cell Growth Differ** 1995 Dec;6(12):1601–8

Interaction of BiP with substance P and nucleotides. Weissbach H, et al. **Cell Mol Biol Res** 1995;41(5):397–403

A role of cofilin/destrin in reorganization of actin cytoskeleton in response to stresses and cell stimuli. Yahara I, et al. **Cell Struct Funct** 1996 Oct;21(5):421–4 (34 ref.)

Differential expression of three glutamate transporter subtypes in the rat retina. Rauen T, et al. **Cell Tissue Res** 1996 Dec;286(3):325–36

Cellular distribution, levels, and function of the diazepam–binding inhibitor/acyl–CoA–binding protein in last instar Manduca sexta midgut. Snyder MJ, et al. **Cell Tissue Res** 1997 Apr;288(1):177–84

Controlling programmed cell death with a cyclophilin–cyclosporin–based chemical inducer of dimerization. Belshaw PJ, et al. **Chem Biol** 1996 Sep; 3(9):731–8

Constitutive and strong association of PAF53 with RNA polymerase I. Seither P, et al. **Chromosoma** 1997 Sep; 106(4):216–25

The multiple role of the pheromone–binding protein in olfactory transduction. Ziegelberger G. **Ciba Found Symp** 1996;200:267–75; discussion 275–80 (41 ref.)

Cellular and subcellular expression of the monocarboxylate transporter MCT1 in rat heart. A high–resolution immunogold analysis. Jóhannsson E, et al. **Circ Res** 1997 Mar;80(3):400–7

Epoxyeicosatrienoic acids activate K+ channels in coronary smooth muscle through a guanine nucleotide binding protein. Li PL, et al. **Circ Res** 1997 Jun;80(6):877–84

Endothelial cells of the human microvasculature express epidermal fatty acid–binding protein. Masouyé I, et al. **Circ Res** 1997 Sep;81(3):297–303

Comparison of binding characteristics of four rapamycin metabolites to the 14 and 52 kDa immunophilins with their pharmacologic activity measured by the mixed–lymphocyte culture assay. Goodyear N, et al. **Clin Biochem** 1996 Aug;29(4):309–13

Enzymatic diagnosis of holocarboxylase synthetase deficiency using apo–carboxyl carrier protein as a substrate. Suzuki Y, et al. **Clin Chim Acta** 1996 Jul 15;251(1):41–52

Hyperexpression of transporter in antigen processing–1 (TAP–1) in thyroid glands affected by autoimmunity: a contributing factor to the breach of tolerance to thyroid antigens? Sospedra M, et al. **Clin Exp Immunol** 1997 Jul; 109(1):98–106

Water channels and urea transporters. Wintour EM. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):1–9 (78 ref.)

Obesity research continues to spring leaks. Harper ME. **Clin Invest Med** 1997 Aug;20(4):239–44 (32 ref.)

Molecular analysis of neurotransmitter transport into secretory vesicles. Liu Y, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:747–58 (113 ref.)

CETP activity in liver perfusates and plasma from rabbits hypo– or hyperresponsive to dietary cholesterol. Meijer GW, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Aug;114(4):403–7

A large–scale processing of kinetic data files with derivation of the inhibitory constant Ki: an application to proline isomerases. Galat A. **Comput Chem** 1996 Jun;20(2):279–81

Differential distribution of lumican and fibromodulin in tooth cementum. Cheng H, et al. **Connect Tissue Res** 1996; 34(2):87–96

Biotechnological aspects of membrane function. Sigler K, et al. **Crit Rev Biotechnol** 1997;17(2):69–86 (77 ref.)

ARF and PITP restore GTP gamma S–stimulated protein secretion from cytosol–depleted HL60 cells by promoting PIP2 synthesis. Fensome A, et al. **Curr Biol** 1996 Jun 1; 6(6):730–8

Activation of apoptosis by Apo–2 ligand is independent of FADD but blocked by CrmA. Marsters SA, et al. **Curr Biol** 1996 Jun 1;6(6):750–2

Kallistatin in human ocular tissues: reduced levels in vitreous fluids from patients with diabetic retinopathy. Ma JX, et al. **Curr Eye Res** 1996 Nov;15(11):1117–23

Membrane permeability. **Curr Opin Cell Biol** 1997 Aug; 9(4):590–601

Molecular biology of iron and zinc uptake in eukaryotes. Eide D. **Curr Opin Cell Biol** 1997 Aug;9(4):573–7 (28 ref.)

Family of neutral and acidic amino acid transporters: molecular biology, physiology and medical implications. Kanai Y. **Curr Opin Cell Biol** 1997 Aug;9(4):565–72 (62 ref.)

Recent advances in elucidating the role of the microsomal triglyceride transfer protein in apolipoprotein B lipoprotein assembly. Gordon DA. **Curr Opin Lipidol** 1997 Jun; 8(3):131–7 (41 ref.)

Collagenous macrophage scavenger receptors. Kodama T, et al. **Curr Opin Lipidol** 1996 Oct;7(5):287–91 (37 ref.)

Genetics and molecular biology [editorial] Patel S. **Curr Opin Lipidol** 1995 Dec;6(6):U149–53

Peptide transporters. Ganapathy V, et al. **Curr Opin Nephrol Hypertens** 1996 Sep;5(5):395–400 (33 ref.)

Mammalian urea transporters. Shayakul C, et al. **Curr Opin Nephrol Hypertens** 1996 Sep;5(5):401–5 (21 ref.)

Neurotransmitter release – four years of SNARE complexes. Hanson PI, et al. **Curr Opin Neurobiol** 1997 Jun;7(3):310–5 (56 ref.)

Modular multidomain phosphoryl transfer proteins of bacteria. Reizer J, et al. **Curr Opin Struct Biol** 1997 Jun; 7(3):407–15 (51 ref.)

Molecular identification of astroglial neutral amino acid transport systems. Bröer S. **Dev Neurosci** 1996; 18(5–6):484–91 (60 ref.)

Expression of the rat brain creatine transporter in situ and in transfected HeLa cells. Saltarelli MD, et al. **Dev Neurosci** 1996;18(5–6):524–34

Leptin receptor of Zucker fatty rat performs reduced signal transduction. Yamashita T, et al. **Diabetes** 1997 Jun; 46(6):1077–80

Evaluation of heparin–binding growth factors in rescuing morphogenesis of heparitinase–treated mouse embryonic lung explants. Toriyama K, et al. **Differentiation** 1997 Feb; 61(3):161–7

Cloning and characterization of two human polyspecific organic cation transporters. Gorboulev V, et al. **DNA Cell Biol** 1997 Jul;16(7):871–81

Identification of a new cellular protein that can interact specifically with DAN. Ozaki T, et al. **DNA Cell Biol** 1997 Aug;16(8):985–91

Interaction of rat Cdc37–related protein with retinoblastoma gene product. Ozaki T, et al. **DNA Cell Biol** 1996 Nov; 15(11):975–9

HGF receptor associates with the anti–apoptotic protein BAG–1 and prevents cell death. Bardelli A, et al. **EMBO J** 1996 Nov 15;15(22):6205–12

FBP WW domains and the Abl SH3 domain bind to a specific class of proline–rich ligands. Bedford MT, et al. **EMBO J** 1997 May 1;16(9):2376–83

Molecular anatomy of a transcription activation patch: FIS–RNA polymerase interactions at the Escherichia coli rrnB P1 promoter. Bokal AJ, et al. **EMBO J** 1997 Jan 2;16(1):154–62

Multiple interactions of components mediating preprotein translocation across the inner mitochondrial membrane. Bömer U, et al. **EMBO J** 1997 May 1;16(9):2205–16

Novel Golgi to vacuole delivery pathway in yeast: identification of a sorting determinant and required

transport component. Cowles CR, et al. **EMBO J** 1997 May 15;16(10):2769–82

A microsomal ATP-binding protein involved in efficient protein transport into the mammalian endoplasmic reticulum. Dierks T, et al. **EMBO J** 1996 Dec 16; 15(24):6931–42

Cdc48p interacts with Ufd3p, a WD repeat protein required for ubiquitin-mediated proteolysis in Saccharomyces cerevisiae. Ghislain M, et al. **EMBO J** 1996 Sep 16; 15(18):4884–99

harakiri, a novel regulator of cell death, encodes a protein that activates apoptosis and interacts selectively with survival-promoting proteins Bcl-2 and Bcl-X(L). Inohara N, et al. **EMBO J** 1997 Apr 1;16(7):1686–94

A mouse cytomegalovirus glycoprotein, gp34, forms a complex with folded class I MHC molecules in the ER which is not retained but is transported to the cell surface. Kleijnen MF, et al. **EMBO J** 1997 Feb 17;16(4):685–94

Gi-mediated activation of the Ras/MAP kinase pathway involves a 100 kDa tyrosine-phosphorylated Grb2 SH3 binding protein, but not Src nor Shc. Kranenburg O, et al. **EMBO J** 1997 Jun 2;16(11):3097–105

A novel SNARE complex implicated in vesicle fusion with the endoplasmic reticulum. Lewis MJ, et al. **EMBO J** 1997 Jun 2;16(11):3017–24

FLICE is activated by association with the CD95 death-inducing signaling complex (DISC). Medema JP, et al. **EMBO J** 1997 May 15;16(10):2794–804

Subunit interactions in ABC transporters: a conserved sequence in hydrophobic membrane proteins of periplasmic permeases defines an important site of interaction with the ATPase subunits. Mourez M, et al. **EMBO J** 1997 Jun 2; 16(11):3066–77

FIS activates sequential steps during transcription initiation at a stable RNA promoter. Muskhelishvili G, et al. **EMBO J** 1997 Jun;16(12):3655–65

The receptor-associated protein (RAP) binds calmodulin and is phosphorylated by calmodulin-dependent kinase II. Petersen CM, et al. **EMBO J** 1996 Aug 15;15(16):4165–73

Ligand-regulated transport of the Menkes copper P-type ATPase efflux pump from the Golgi apparatus to the plasma membrane: a novel mechanism of regulated trafficking. Petris MJ, et al. **EMBO J** 1996 Nov 15; 15(22):6084–95

The nucleotide exchange factor MGE exerts a key function in the ATP-dependent cycle of mt-Hsp70-Tim44 interaction driving mitochondrial protein import. Schneider HC, et al. **EMBO J** 1996 Nov 1;15(21):5796–803

BAG-1 modulates the chaperone activity of Hsp70/Hsc70. Takayama S, et al. **EMBO J** 1997 Aug 15;16(16):4887–96

The chaperonin cycle cannot substitute for prolyl isomerase activity, but GroEL alone promotes productive folding of a cyclophilin-sensitive substrate to a cyclophilin-resistant form. von Ahsen O, et al. **EMBO J** 1997 Aug 1; 16(15):4568–78

p140mDia, a mammalian homolog of Drosophila diaphanous, is a target protein for Rho small GTPase and is a ligand for profilin. Watanabe N, et al. **EMBO J** 1997 Jun 2; 16(11):3044–56

Steroid receptor interactions with heat shock protein and immunophilin chaperones. Pratt WB, et al. **Endocr Rev** 1997 Jun;18(3):306–60 (698 ref.)

In search of the cellular site of growth hormone (GH)-binding protein cleavage from the rabbit GH receptor. Amit T, et al. **Endocrinology** 1996 Sep; 137(9):3986–91

Hyperleptinemia, leptin resistance, and polymorphic leptin receptor in the New Zealand obese mouse. Igel M, et al. **Endocrinology** 1997 Oct;138(10):4234–9

Perinuclear localization of an intracellular binding protein related to the fibroblast growth factor (FGF) receptor 1 is temporally associated with the nuclear trafficking of FGF-2 in proliferating epiphyseal growth plate chondrocytes. Kilkenny DM, et al. **Endocrinology** 1996 Nov;137(11):5078–89

Association of N-ethylmaleimide sensitive fusion (NSF) protein and soluble NSF attachment proteins-alpha and -gamma with glucose transporter-4-containing vesicles in primary rat adipocytes. Mastick CC, et al. **Endocrinology** 1997 Jun;138(6):2391–7

Expression and development of a functional plasmalemmal 5-hydroxytryptamine transporter by thyroid follicular cells. Tamir H, et al. **Endocrinology** 1996 Oct; 137(10):4475–86

High affinity thyroid hormone-binding protein in human kidney: kinetic characterization and identification by photoaffinity labeling. Vié MP, et al. **Endocrinology** 1996 Nov;137(11):4563–70

Regulation of protein kinase C: a tale of lipids and proteins. Quest AF. **Enzyme Protein** 1996;49(5-6):231–61 (242 ref.)

Microsomal triacylglycerol transfer protein prevents presecretory degradation of apolipoprotein B-100. A dithiothreitol-sensitive protease is involved. Benoist F, et al. **Eur J Biochem** 1996 Sep 15;240(3):713–20

Characterization of the molecular-chaperone function of the heat-shock-cognate-70-interacting protein. Bruce BD, et al. **Eur J Biochem** 1997 May 1;245(3):738–44

Developmentally controlled cleavage of the Calliphora arylphorin receptor and posttranslational action of the steroid hormone 20-hydroxyecdysone. Burmester T, et al. **Eur J Biochem** 1997 Jul 15;247(2):695–702

Hypoxanthine uptake through a purine-selective nucleobase transporter in Trypanosoma brucei brucei procyclic cells is driven by protonmotive force. de Koning HP, et al. **Eur J Biochem** 1997 Aug 1;247(3):1102–10

Amplified expression, purification and functional reconstitution of the dipeptide and tripeptide transport protein of Lactococcus lactis. Hagting A, et al. **Eur J Biochem** 1997 Jul 15;247(2):581–7

Lipopolysaccharide-binding proteins and their involvement in the bacterial clearance from the hemolymph of the silkworm Bombyx mori. Koizumi N, et al. **Eur J Biochem** 1997 Aug 15;248(1):217–24

Characterization of the interaction between the Staphylococcus aureus clumping factor (ClfA) and fibrinogen. McDevitt D, et al. **Eur J Biochem** 1997 Jul 1;247(1):416–24

Dexamethasone increases expression of 5-lipoxygenase and its activating protein in human monocytes and THP-1 cells. Riddick CA, et al. **Eur J Biochem** 1997 May 15; 246(1):112–8

Differential interaction of bile acids from patients with inborn errors of bile acid synthesis with hepatocellular bile acid transporters. Stieger B, et al. **Eur J Biochem** 1997 Feb 15; 244(1):39–44

A target of phosphatidylinositol 3,4,5-trisphosphate with a zinc finger motif similar to that of the ADP-ribosylation-factor GTPase-activating protein and two pleckstrin homology domains. Tanaka K, et al. **Eur J Biochem** 1997 Apr 15;245(2):512–9

Specific interaction of the Streptomyces chitin-binding protein CHB1 with alpha-chitin--the role of individual tryptophan residues. Zeltins A, et al. **Eur J Biochem** 1997 Jun 1;246(2):557–64

Blockade of the alpha 2-macroglobulin receptor/low-density-lipoprotein-receptor-related protein on rat liver parenchymal cells by the 39-kDa receptor-associated protein leaves the interaction of beta-migrating very-low-density lipoprotein with the lipoprotein remnant receptor unaffected. Ziere GJ, et al. **Eur J Biochem** 1996 Dec 15;242(3):703–11

The effect of increased egg consumption on plasma cholesteryl ester transfer activity in healthy subjects. Sutherland WH, et al. **Eur J Clin Nutr** 1997 Mar; 51(3):172–6

Anti-obesity and anti-diabetic effects of CL316,243, a highly specific beta 3-adrenoceptor agonist, in Otsuka Long-Evans Tokushima Fatty rats: induction of uncoupling protein and activation of glucose transporter 4 in white fat [see comments] Umekawa T, et al. **Eur J Endocrinol** 1997 Apr;136(4):429–37. Comment in: Eur J Endocrinol 1997 Apr;136(4):362–5.

Major histocompatibility complex class I-dependent cell binding to isolated Ly-49A: evidence for high-avidity interaction. Chang CS, et al. **Eur J Immunol** 1996 Dec; 26(12):3219–23

Stress protein (hsp73)-mediated, TAP-independent processing of endogenous, truncated SV40 large T antigen for Db-restricted peptide presentation. Schirmbeck R, et al. **Eur J Immunol** 1997 Aug;27(8):2016–23

Localization of the serotonin transporter in rat spinal cord. Sur C, et al. **Eur J Neurosci** 1996 Dec;8(12):2753–7

Leukaemia inhibitory factor is retrogradely transported by a distinct population of adult rat sensory neurons: co-localization with trkA and other neurochemical markers. Thompson SW, et al. **Eur J Neurosci** 1997 Jun; 9(6):1244–51

Neuronal and glial glutamate transporters possess an SH-based redox regulatory mechanism. Trotti D, et al. **Eur J Neurosci** 1997 Jun;9(6):1236–43

Na(+)-Ca2+ exchange currents in cortical neurons: concomitant forward and reverse operation and effect of glutamate. Yu SP, et al. **Eur J Neurosci** 1997 Jun; 9(6):1273–81

Imaging of dopamine transporters in humans with technetium-99m TRODAT-1 [see comments] Kung HF, et al. **Eur J Nucl Med** 1996 Nov;23(11):1527–30. Comment in: Eur J Nucl Med 1996 Nov;23(11):1441. Comment in: Eur J Nucl Med 1997 Apr;24(4):462–3.

[99mTc]TRODAT-1: a novel technetium-99m complex as a dopamine transporter imaging agent. Kung MP, et al. **Eur J Nucl Med** 1997 Apr;24(4):372–80

Imaging of dopamine transporters in humans with technetium-99m TRODAT-1 [letter; comment] Meltzer PC, et al. **Eur J Nucl Med** 1997 Apr;24(4):462–3. Comment on: Eur J Nucl Med 1996 Nov;23(11):1527–30.

Relationship between clinical features of Parkinson's disease and presynaptic dopamine transporter binding assessed with [123I]IPT and single-photon emission tomography. Tatsch K, et al. **Eur J Nucl Med** 1997 Apr;24(4):415–21

Highly potent cocaine analogs cause long-lasting increases in locomotor activity. Fleckenstein AE, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):109–14

A rapid and reversible change in dopamine transporters induced by methamphetamine. Fleckenstein AE, et al. **Eur J Pharmacol** 1997 Apr 4;323(2-3):R9–10

Displacement of RTI-55 from the dopamine transporter by cocaine. Gatley SJ, et al. **Eur J Pharmacol** 1996 Jan 25; 296(2):145–51

Complex ionic control of [3H]GBR 12783 binding to the dopamine neuronal carrier. Héron C, et al. **Eur J Pharmacol** 1996 Apr 22;301(1-3):195–202

The cocaine-like behavioral effects of meperidine are mediated by activity at the dopamine transporter. Izenwasser S, et al. **Eur J Pharmacol** 1996 Feb 15; 297(1-2):9–17

Na+/Ca2+ exchange current: lack of effect of taurine. Katsube Y, et al. **Eur J Pharmacol** 1996 Nov 28; 316(1):97–103

Pharmacology and regulation of the neuronal dopamine transporter. Reith ME, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):1–10 (92 ref.)

gamma-Aminobutyric acid increases intracellular Ca2+ concentration in cultured cortical neurons: role of Cl- transport. Takebayashi M, et al. **Eur J Pharmacol** 1996 Feb 15;297(1-2):137–43

Estramustine-binding protein in carcinoma and benign hyperplasia of the human prostate. Shiina H, et al. **Eur Urol** 1996;29(1):106–10

Heregulin degradation in the absence of rapid receptor-mediated internalization. Baulida J, et al. **Exp Cell Res** 1997 Apr 10;232(1):167–72

Evidence for the existence of a novel mechanism for the nuclear import of Hsc70. Lamian V, et al. **Exp Cell Res** 1996 Oct 10;228(1):84–91

Regulation of energy balance by leptin. Hamann A, et al. **Exp Clin Endocrinol Diabetes** 1996;104(4):293–300 (46 ref.)

Inducible expression of Na+/myo-inositol cotransporter mRNA in anterior epithelium of bovine lens: affiliation with hypertonicity and cell proliferation. Cammarata PR, et al. **Exp Eye Res** 1997 May;64(5):745–57

Cellular retinaldehyde binding protein in developing retinal astrocytes. Johnson PT, et al. **Exp Eye Res** 1997 May; 64(5):759–66

Cellular retinaldehyde-binding protein localization in cornea [letter] Sarthy V. **Exp Eye Res** 1996 Dec;63(6):759–62

Lens tropomodulin: developmental expression during differentiation. Sussman MA, et al. **Exp Eye Res** 1996 Aug; 63(2):223–32

Control of proximal tubular apical Na/Pi cotransport. Murer H, et al. **Exp Nephrol** 1996 Jul-Aug;4(4):201–4 (23 ref.)

A dopamine transporter in human erythrocytes: modulation by insulin. Azoui R, et al. **Exp Physiol** 1996 May; 81(3):421–34

Cellular catabolism in apoptosis: DNA degradation and endonuclease activation. Montague JW, et al. **Experientia** 1996 Oct 31;52(10-11):957–62 (59 ref.)

A unique transporter of S-adenosylmethionine in African trypanosomes. Goldberg B, et al. **FASEB J** 1997 Mar; 11(4):256–60

Na+/Ca2+ exchanger modulates kainate-triggered Ca2+ signaling in Bergmann glial cells in situ. Kirischuk S, et al. **FASEB J** 1997 Jun;11(7):566–72

Bile acid transport across the hepatocyte canalicular membrane. Suchy FJ, et al. **FASEB J** 1997 Mar; 11(4):199–205 (41 ref.)

Interaction of Fas(Apo-1/CD95) with proteins implicated in the ubiquitination pathway. Becker K, et al. **FEBS Lett** 1997 Jul 21;412(1):102–6

The activity of the gluconate-H+ symporter of Schizosaccharomyces pombe cells is down-regulated by D-glucose and exogenous cAMP. Caspari T, et al. **FEBS Lett** 1996 Oct 21;395(2-3):272–6

Production of a soluble and active MBP-scFv fusion: favorable effect of the leaky tolR strain. Chames P, et al. **FEBS Lett** 1997 Mar 24;405(2):224–8

Abolition of substrate-dependent currents by tyrosine mutation in the transmembrane domain of glutamate transporter. Choi I, et al. **FEBS Lett** 1997 Mar 24; 405(2):133–6

Phosphatidylinositol transfer proteins: requirements in phospholipase C signaling and in regulated exocytosis. Cockcroft S. **FEBS Lett** 1997 Jun 23;410(1):44–8 (31 ref.)

Binding of histamine H3-receptor antagonists to hematopoietic progenitor cells. Evidence for a histamine transporter unrelated to histamine H3 receptors. Corbel S, et al. **FEBS Lett** 1997 Mar 10;404(2-3):289–93

A novel 13 kDa cytoplasmic soluble protein is required for the nucleotide (MgATP) modulation of the Na/Ca exchange in squid nerve fibers. DiPolo R, et al. **FEBS Lett** 1997 Jan 13;401(1):6–10

Plasmalogen and anionic phospholipid dependence of the cardiac sarcolemmal sodium-calcium exchanger. Ford DA, et al. **FEBS Lett** 1996 Sep 23;394(1):99–102

High-affinity binding of the yeast cis-Golgi t-SNARE, Sed5p, to wild-type and mutant Sly1p, a modulator of transport vesicle docking. Grabowski R, et al. **FEBS Lett** 1997 Jul 14;411(2-3):169–72

Affinity for alpha-tocopherol transfer protein as a determinant of the biological activities of vitamin E analogs. Hosomi A, et al. **FEBS Lett** 1997 Jun 2; 409(1):105–8

Evidence for a Na+-Ca2+ exchanger in rat pancreatic ducts. Hug M, et al. **FEBS Lett** 1996 Nov 18; 397(2-3):298–302

A structure-activity study of fatty acid interaction with mitochondrial uncoupling protein. Jezek P, et al. **FEBS Lett** 1997 May 19;408(2):166–70

A novel type of binding specificity to phospholipids for rat mannose-binding proteins isolated from serum and liver. Kuroki Y, et al. **FEBS Lett** 1997 Sep 8;414(2):387–92

HIV protease substrate conformation: modulation by cyclophilin A. McCornack MA, et al. **FEBS Lett** 1997 Sep 1;414(1):84–8

The post-translational modifications of Ral and Rac1 are important for the action of Ral-binding protein 1, a putative

effector protein of Ral. Matsubara K, et al. **FEBS Lett** 1997 Jun 30;410(2–3):169–74

SH3 domain–dependent interactions of endophilin with amphiphysin. Micheva KD, et al. **FEBS Lett** 1997 Sep 8; 414(2):308–12

Leptin receptor (OB–R) oligomerizes with itself but not with its closely related cytokine signal transducer gp130. Nakashima K, et al. **FEBS Lett** 1997 Feb 10;403(1):79–82

Overlapping and distinct signals through leptin receptor (OB–R) and a closely related cytokine signal transducer, gp130. Nakashima K, et al. **FEBS Lett** 1997 Jan 13; 401(1):49–52

Identification of the yeast ARG–11 gene as a mitochondrial ornithine carrier involved in arginine biosynthesis. Palmieri L, et al. **FEBS Lett** 1997 Jun 30;410(2–3):447–51

Identification of the 4–hydroxyphenylacetate transport gene of Escherichia coli W: construction of a highly sensitive cellular biosensor. Prieto MA, et al. **FEBS Lett** 1997 Sep 8;414(2):293–7

Cyclophilin active site mutants have native prolyl isomerase activity with a protein substrate. Scholz C, et al. **FEBS Lett** 1997 Sep 1;414(1):69–73

Identification of a C–terminal binding site for G–protein betagamma–subunits in phosducin–like protein. Schröder S, et al. **FEBS Lett** 1997 Jan 20;401(2–3):243–6

Lipopolysaccharide–binding protein mediates CD14–independent intercalation of lipopolysaccharide into phospholipid membranes. Schromm AB, et al. **FEBS Lett** 1996 Dec 16;399(3):267–71

Extended binding sites of cyclophilin as revealed by the interaction with HIV–1 Gag polyprotein derived oligopeptides. Schutkowski M, et al. **FEBS Lett** 1996 Oct 7;394(3):289–94

Characterization and localization of leptin receptors in the rat kidney. Serradeil–Le Gal C, et al. **FEBS Lett** 1997 Mar 10;404(2–3):185–91

Mutational analysis eliminates Glu64 and Glu94 as candidates for 'catalytic carboxylate' in the bacterial ATP–binding–cassette protein MalK. Stein A, et al. **FEBS Lett** 1997 Aug 18;413(2):211–4

Identification of the histidine residues involved in substrate recognition by a rat H+/peptide cotransporter, PEPT1. Terada T, et al. **FEBS Lett** 1996 Sep 30;394(2):196–200

Comparative mutational analysis of peptidyl prolyl cis/trans isomerases: active sites of Escherichia coli trigger factor and human FKBP12. Tradler T, et al. **FEBS Lett** 1997 Apr 28;407(2):184–90

A model for Fis N–terminus and Fis–invertase recognition. Tzou WS, et al. **FEBS Lett** 1997 Jan 13;401(1):1–5

Catabolite inactivation of the yeast maltose transporter requires ubiquitin–ligase npi1/rsp5 and ubiquitin–hydrolase npi2/doa4. Lucero P, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):273–7

Evidence for a role of NisT in transport of the lantibiotic nisin produced by Lactococcus lactis N8. Qiao M, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):89–93

Haemin binding as a factor in the virulence of Porphyromonas gingivalis. Smalley JW, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):65–70

Involvement of calpain in postmortem proteolysis in the rat brain. Sorimachi Y, et al. **Forensic Sci Int** 1996 Aug 15; 81(2–3):165–74

Evidence suggesting the 58–kDa acetaminophen binding protein is a preferential target for acetaminophen electrophile. Hoivik DJ, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):79–86

Chlorambucil–taurocholate is transported by bile acid carriers expressed in human hepatocellular carcinomas. Kullak–Ublick GA, et al. **Gastroenterology** 1997 Oct; 113(4):1295–305

Identification and characterization of methyl farnesoate binding proteins from the crab, Cancer magister. Tamone SL, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):168–75

Adenosine transporters. Thorn JA, et al. **Gen Pharmacol** 1996 Jun;27(4):613–20 (75 ref.)

The conserved tetracysteine motif in the general secretory pathway component PulE is required for efficient pullulanase secretion. Possot OM, et al. **Gene** 1997 Jun 11; 192(1):45–50

RNA binding analysis of yeast REF2 and its two–hybrid interaction with a new gene product, FIR1. Russnak R, et al. **Gene Expr** 1996;6(4):241–58

Identification of Bmi1–interacting proteins as constituents of a multimeric mammalian polycomb complex. Alkema MJ, et al. **Genes Dev** 1997 Jan 15;11(2):226–40

The UNC–14 protein required for axonal elongation and guidance in Caenorhabditis elegans interacts with the serine/threonine kinase UNC–51. Ogura K, et al. **Genes Dev** 1997 Jul 15;11(14):1801–11

The subcellular locations of p15(Ink4b) and p27(Kip1) coordinate their inhibitory interactions with cdk4 and cdk2. Reynisdóttir I, et al. **Genes Dev** 1997 Feb 15;11(4):492–503

SurA, a periplasmic protein with peptidyl–prolyl isomerase activity, participates in the assembly of outer membrane porins. Rouvière PE, et al. **Genes Dev** 1996 Dec 15; 10(24):3170–82

BID: a novel BH3 domain–only death agonist. Wang K, et al. **Genes Dev** 1996 Nov 15;10(22):2859–69

A novel Rap1p–interacting factor, Rif2p, cooperates with Rif1p to regulate telomere length in Saccharomyces cerevisiae. Wotton D, et al. **Genes Dev** 1997 Mar 15; 11(6):748–60

Identification of a novel protein, DMAP, which interacts with the myotonic dystrophy protein kinase and shows strong homology to D1 snRNP. Fu YH. **Genetica** 1996 Jan;97(1):117–25

Assignment of the human FKBP12–rapamycin–associated protein (FRAP) gene to chromosome 1p36 by fluorescence in situ hybridization. Moore PA, et al. **Genomics** 1996 Apr 15;33(2):331–2

Associations of UBE2I with RAD52, UBL1, p53, and RAD51 proteins in a yeast two–hybrid system. Shen Z, et al. **Genomics** 1996 Oct 15;37(2):183–6

Voltage–dependent Na(+)–HCO3– cotransporter and Na+/H+ exchanger are involved in intracellular pH regulation of cultured mature rat cerebellar oligodendrocytes. Boussouf A, et al. **Glia** 1997 Jan; 19(1):74–84

Immunoreactivity for brain–fatty acid binding protein in gomori–positive astrocytes. Young JK, et al. **Glia** 1996 Mar; 16(3):218–26

Transporters of nucleotide sugars, nucleotide sulfate and ATP in the Golgi apparatus membrane: where next? Hirschberg CB. **Glycobiology** 1997 Mar;7(2):169–71 (40 ref.)

Targeting of active rat alpha 2,3–sialyltransferase to the yeast cell wall by the aid of the hsp 150 delta–carrier: toward synthesis of sLe(x)–decorated L–selectin ligands. Mattila P, et al. **Glycobiology** 1996 Dec;6(8):851–9

Unique tissue distribution of a mouse macrophage C–type lectin. Mizuochi S, et al. **Glycobiology** 1997 Feb;7(1):137–46

Difference in binding–site architecture of the serum–type and liver–type mannose–binding proteins. Lee RT, et al. **Glycoconj J** 1997 Apr;14(3):357–63

Isolation and characterization of lectins and lectin–alliinase complexes from bulbs of garlic (Allium sativum) and ramsons (Allium ursinum). Smeets K, et al. **Glycoconj J** 1997 Apr;14(3):331–43

Immunophilins, ligands, and the control of signal transduction. Schreiber SL, et al. **Harvey Lect** 1995–96; 91:99–114 (89 ref.)

Regional distribution of a creatine transporter in rat auditory brainstem: an in–situ hybridization study. Hiel H, et al. **Hear Res** 1996 Sep 1;98(1–2):29–37

Expression of the rat liver Na+/taurocholate cotransporter is regulated in vivo by retention of biliary constituents but not their depletion. Gartung C, et al. **Hepatology** 1997 Feb; 25(2):284–90

Redistribution of canalicular cell membrane enzyme in hepatocytes following their isolation and during early cell culture [letter; comment] Gratzl R, et al. **Hepatology** 1997 Feb;25(2):502–4. Comment on: Hepatology 1995 Jun;21(6):1649–57.

More Na+/bile acid cotransporters in hepatocytes? Lessons from obstructive cholestasis. Meier–Abt PJ. **Hepatology** 1996 Oct;24(4):970–2

Expression and release of the latent transforming growth factor beta binding protein by hepatocytes from rat liver. Roth S, et al. **Hepatology** 1997 Jun;25(6):1398–405

When is a carrier not a membrane carrier? The cytoplasmic transport of amphipathic molecules. Weisiger RA. **Hepatology** 1996 Nov;24(5):1288–95 (103 ref.)

Human neutrophil lipocalin (HNL) is a specific granule constituent of the neutrophil granulocyte. Studies in bronchial and lung parenchymal tissue and peripheral blood cells. Sevéus L, et al. **Histochem Cell Biol** 1997 May; 107(5):423–32

Tissue distribution and immunohistochemical localization of the collagen–binding heat–shock protein gp46 in neonatal rats. Pak BJ, et al. **Histochem J** 1996 Dec;28(12):895–902

Evidence that reduced leptin levels, but not an aberrant sequence of leptin or its receptor, contribute to the obesity syndrome in NON mice. Igel M, et al. **Horm Metab Res** 1996 Dec;28(12):669–73

Binding of leptin to the soluble ectodomain of recombinant leptin receptor: a kinetic analysis by surface plasmon resonance. Rock FL, et al. **Horm Metab Res** 1996 Dec; 28(12):748–50

Leptin: genes, concepts and clinical perspective. Considine RV, et al. **Horm Res** 1996;46(6):249–56 (70 ref.)

Alpha 2–macroglobulin: a binding protein for transforming growth factor–beta and various cytokines. Feige JJ, et al. **Horm Res** 1996;45(3–5):227–32 (36 ref.)

Follistatins and alpha 2–macroglobulin are soluble binding proteins for inhibin and activin. Mather JP. **Horm Res** 1996; 45(3–5):207–10 (29 ref.)

Growth hormone– and prolactin–binding proteins: soluble forms of receptors. Postel–Vinay MC. **Horm Res** 1996; 45(3–5):178–81 (33 ref.)

Molecular basis of the brindled mouse mutant (Mo(br)): a murine model of Menkes disease. Grimes A, et al. **Hum Mol Genet** 1997 Jul;6(7):1037–42

Loss of RB and MTS1/CDKN2 (p16) expression in human sarcomas. Cohen JA, et al. **Hum Pathol** 1997 Aug; 28(8):893–8

cDNA cloning and primary structure analysis of C1qR(P), the human C1q/MBL/SPA receptor that mediates enhanced phagocytosis in vitro. Nepomuceno RR, et al. **Immunity** 1997 Feb;6(2):119–29

Casper is a FADD– and caspase–related inducer of apoptosis. Shu HB, et al. **Immunity** 1997 Jun;6(6):751–63

Molecular analysis of the fyn–complex: cloning of SKAP55 and SLAP–130, two novel adaptor proteins which associate with fyn and may participate in the regulation of T cell receptor–mediated signaling. Schraven B, et al. **Immunol Lett** 1997 Jun 1;57(1–3):165–9 (26 ref.)

Expression of fibroblast growth factor binding protein HBp17 in normal and tumor cells [letter] Okamoto T, et al. **In Vitro Cell Dev Biol Anim** 1996 Feb;32(2):69–71

Acquisition of iron from host proteins by the group A streptococcus. Eichenbaum Z, et al. **Infect Immun** 1996 Dec;64(12):5428–9

Diphosphoryl lipid A from Rhodobacter sphaeroides inhibits complexes that form in vitro between lipopolysaccharide (LPS)–binding protein, soluble CD14, and spectrally pure LPS. Jarvis BW, et al. **Infect Immun** 1997 Aug;65(8):3011–6

Modification of the Staphylococcus aureus fibronectin binding phenotype by V8 protease. McGavin MJ, et al. **Infect Immun** 1997 Jul;65(7):2621–8

Differential effects of cell density on 5–lipoxygenase (5–LO), five–lipoxygenase–activating protein (FLAP) and interleukin–1 beta (IL–1 beta) expression in human neutrophils. Jobin C, et al. **Inflammation** 1997 Apr; 21(2):235–50

The renal brush border membrane sodium/sulfate cotransporter functions in situ as a homotetramer. Jetté M, et al. **Int J Biochem Cell Biol** 1996 Oct;28(10):1151–4

Gastrin and gastrin receptor antagonists bind to both N– and C–terminal halves of the 78 kDa gastrin–binding protein. Murphy VJ, et al. **Int J Biochem Cell Biol** 1996 Nov; 28(11):1233–40

No correlation between changes in fatty acid–binding protein content and fatty acid oxidation capacity of rat tissues in experimental diabetes. Veerkamp JH, et al. **Int J Biochem Cell Biol** 1996 Apr;28(4):473–8

Inactivation of p16/CDKN2 and p15/MTS2 genes in different histological types and clinical stages of primary ovarian tumors. Ichikawa Y, et al. **Int J Cancer** 1996 Dec 20;69(6):466–70

Loss of expression of the p16INK4/CDKN2 gene in cutaneous malignant melanoma correlates with tumor cell proliferation and invasive stage. Talve L, et al. **Int J Cancer** 1997 Jun 20;74(3):255–9

Multiple types of aberrations in the p16 (INK4a) and the p15(INK4b) genes in 30 esophageal squamous–cell–carcinoma cell lines. Tanaka H, et al. **Int J Cancer** 1997 Feb 7;70(4):437–42

Overexpression of folate binding protein in ovarian cancers. Toffoli G, et al. **Int J Cancer** 1997 Apr 22;74(2):193–8

Kallikrein–binding protein levels are reduced in the retinas of streptozotocin–induced diabetic rats. Hatcher HC, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):658–64

Identification of a novel, sodium–dependent, reduced glutathione transporter in the rat lens epithelium. Kannan R, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2269–75

Effects of dexamethasone on sodium–potassium–chloride cotransport in trabecular meshwork cells. Putney LK, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1229–40

Properties of electrogenic Pi transport by a human renal brush border Na+/Pi transporter. Busch AE, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1547–51

Immunolocalization of the secretory isoform of Na–K–Cl cotransporter in rat renal intercalated cells. Ginns SM, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2533–42

Evidence for distinct vascular and tubular urea transporters in the rat kidney. Promeneur D, et al. **J Am Soc Nephrol** 1996 Jun;7(6):852–60

Affinities of BO–2727 for bacterial penicillin–binding proteins and morphological change of gram–negative rods. Hashizume T, et al. **J Antibiot (Tokyo)** 1997 Feb; 50(2):139–42

Structure–activity relationships of carbapenem compounds to anti–Haemophilus influenzae activity and affinity for penicillin–binding proteins. Effect of 1 beta–methyl group and C–2 side chain. Kanazawa K, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):162–8

Anti–candidal activity of mupirocin–evidence for uptake via an amino acid transport system [letter] De Wet PM, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1107–8

Penicillin–binding protein 5 as an inhibitory target of cefozopran in Enterococcus faecalis. Tsuchimori N, et al. **J Antimicrob Chemother** 1996 Mar;37(3):605–9

Lipase secretion by bacterial hybrid ATP–binding cassette exporters: molecular recognition of the LipBCD, PrtDEF, and HasDEF exporters. Akatsuka H, et al. **J Bacteriol** 1997 Aug;179(15):4754–60

Purification, characterization, and functional analysis of a truncated Klebsiella aerogenes UreE urease accessory protein lacking the histidine–rich carboxyl terminus. Brayman TG, et al. **J Bacteriol** 1996 Sep;178(18):5410–6

Mutations that increase expression of the rpoS gene and decrease its dependence on hfq function in Salmonella typhimurium. Brown L, et al. **J Bacteriol** 1997 Feb; 179(3):656–62

Mutation of a single MalK subunit severely impairs maltose transport activity in Escherichia coli. Davidson AL, et al. **J Bacteriol** 1997 Sep;179(17):5458–64

Structure–function analyses of the Ssc1p, Mdj1p, and Mge1p Saccharomyces cerevisiae mitochondrial proteins in Escherichia coli. Deloche O, et al. **J Bacteriol** 1997 Oct; 179(19):6066–75

Direct quantitation of the number of individual penicillin–binding proteins per cell in Escherichia coli. Dougherty TJ, et al. **J Bacteriol** 1996 Nov;178(21):6110–5

Evidence that TolC is required for functioning of the Mar/AcrAB efflux pump of Escherichia coli. Fralick JA.

J Bacteriol 1996 Oct;178(19):5803–5
Escherichia coli SecB stimulates export without maintaining export competence of ribose–binding protein signal sequence mutants. Francetic O, et al. **J Bacteriol** 1996 Oct; 178(20):5954–9
Fis binding in the dnaA operon promoter region. Froelich JM, et al. **J Bacteriol** 1996 Oct;178(20):6006–12
A positive control mutant of the transcription activator protein FIS. Gosink KK, et al. **J Bacteriol** 1996 Sep; 178(17):5182–7
AmpC and AmpH, proteins related to the class C beta–lactamases, bind penicillin and contribute to the normal morphology of Escherichia coli. Henderson TA, et al. **J Bacteriol** 1997 Oct;179(19):6112–21
MalFGK complex assembly and transport and regulatory characteristics of MalK insertion mutants. Lippincott J, et al. **J Bacteriol** 1997 Feb;179(4):1337–43
Characterization of UreG, identification of a UreD–UreF–UreG complex, and evidence suggesting that a nucleotide–binding site in UreG is required for in vivo metallocenter assembly of Klebsiella aerogenes urease. Moncrief MB, et al. **J Bacteriol** 1997 Jul;179(13):4081–6
PcaK, a high–affinity permease for the aromatic compounds 4–hydroxybenzoate and protocatechuate from Pseudomonas putida. Nichols NN, et al. **J Bacteriol** 1997 Aug;179(16):5056–61
Role of mecA transcriptional regulation in the phenotypic expression of methicillin resistance in Staphylococcus aureus. Niemeyer DM, et al. **J Bacteriol** 1996 Sep; 178(18):5464–71
Multidrug efflux pumps of gram–negative bacteria. Nikaido H. **J Bacteriol** 1996 Oct;178(20):5853–9 (57 ref.)
Role of scaffolding protein CipC of Clostridium cellulolyticum in cellulose degradation. Pagès S, et al. **J Bacteriol** 1997 May;179(9):2810–6
Location, degree, and direction of DNA bending associated with the Hin recombinational enhancer sequence and Fis–enhancer complex. Perkins–Balding D, et al. **J Bacteriol** 1997 Aug;179(15):4747–53
Amino acid substitutions in membrane–spanning domains of Hol1, a member of the major facilitator superfamily of transporters, confer nonselective cation uptake in Saccharomyces cerevisiae. Wright MB, et al. **J Bacteriol** 1996 Dec;178(24):7197–205
Biochemical characterization of penicillin–resistant and –sensitive penicillin–binding protein 2x transpeptidase activities of Streptococcus pneumoniae and mechanistic implications in bacterial resistance to beta–lactam antibiotics. Zhao G, et al. **J Bacteriol** 1997 Aug; 179(15):4901–8
Identification of a third secondary carrier (DcuC) for anaerobic C4–dicarboxylate transport in Escherichia coli: roles of the three Dcu carriers in uptake and exchange. Zientz E, et al. **J Bacteriol** 1996 Dec;178(24):7241–7
Acute regulation by dietary phosphate of the sodium–dependent phosphate transporter (NaP(i)–2) in rat kidney. Katai K, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):50–5
Expression of syndecan–1 and –3 during embryogenesis of the central nervous system in relation to binding with midkine. Nakanishi T, et al. **J Biochem (Tokyo)** 1997 Feb; 121(2):197–205
Linear polymerization caused by the defective folding of a non–inhibitory serpin ovalbumin. Shirai N, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):787–97
Identification and functional characterization of yeast zeta–COP. Yamazaki S, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):8–14
Coupling chemical energy by the hsp70/tim44 complex to drive protein translocation into mitochondria. Cyr DM. **J Bioenerg Biomembr** 1997 Feb;29(1):29–34 (32 ref.)
Spodoptera frugiperda caspase–1, a novel insect death protease that cleaves the nuclear immunophilin FKBP46, is the target of the baculovirus antiapoptotic protein p35. Ahmad M, et al. **J Biol Chem** 1997 Jan 17;272(3):1421–4
Tumor necrosis factor receptor–associated factor (TRAF) 5 and TRAF2 are involved in CD30–mediated NFkappaB activation. Aizawa S, et al. **J Biol Chem** 1997 Jan 24; 272(4):2042–5
Novel proteins that interact with the COOH–terminal cytosolic routing determinants of an integral membrane peptide–processing enzyme. Alam MR, et al. **J Biol Chem** 1996 Nov 8;271(45):28636–40
Membrane permeabilization by poliovirus proteins 2B and 2BC. Aldabe R, et al. **J Biol Chem** 1996 Sep 20; 271(38):23134–7
Isoform–specific interaction of the myosin–binding proteins (MyBPs) with skeletal and cardiac myosin is a property of the C–terminal immunoglobulin domain. Alyonycheva TN, et al. **J Biol Chem** 1997 Aug 15;272(33):20866–72
Compensatory regulation of RIalpha protein levels in protein kinase A mutant mice. Amieux PS, et al. **J Biol Chem** 1997 Feb 14;272(7):3993–8
An oxidase–permease–based iron transport system in Schizosaccharomyces pombe and its expression in Saccharomyces cerevisiae. Askwith C, et al. **J Biol Chem** 1997 Jan 3;272(1):401–5
Loss of folic acid exporter function with markedly augmented folate accumulation in lipophilic antifolate–resistant mammalian cells. Assaraf YG, et al. **J Biol Chem** 1997 Jul 11;272(28):17460–6
Membrane potential–generating malate (MleP) and citrate (CitP) transporters of lactic acid bacteria are homologous proteins. Substrate specificity of the 2–hydroxycarboxylate transporter family. Bandell M, et al. **J Biol Chem** 1997 Jul 18;272(29):18140–6
Erv25p, a component of COPII–coated vesicles, forms a complex with Emp24p that is required for efficient endoplasmic reticulum to Golgi transport. Belden WJ, et al. **J Biol Chem** 1996 Oct 25;271(43):26939–46
The membrane topology of GAT–1, a (Na+ + Cl–)–coupled gamma–aminobutyric acid transporter from rat brain. Bennett ER, et al. **J Biol Chem** 1997 Jan 10;272(2):1203–10
Cholesteryl ester transfer protein mediates selective uptake of high density lipoprotein cholesteryl esters by human adipose tissue. Benoist F, et al. **J Biol Chem** 1997 Sep 19; 272(38):23572–7
Ubiquitin–dependent degradation of certain protein substrates in vitro requires the molecular chaperone Hsc70. Bercovich B, et al. **J Biol Chem** 1997 Apr 4;272(14):9002–10
Functional expression of the murine Golgi CMP–sialic acid transporter in saccharomyces cerevisiae. Berninsone P, et al. **J Biol Chem** 1997 May 9;272(19):12616–9
ATP depletion affects the phosphorylation state, ligand binding, and nuclear transport of the 4 S polycyclic aromatic hydrocarbon–binding protein in rat hepatoma cells. Bhat R, et al. **J Biol Chem** 1996 Dec 20; 271(51):32551–6
Energetics and mechanism of drug transport mediated by the lactococcal multidrug transporter LmrP. Bolhuis H, et al. **J Biol Chem** 1996 Sep 27;271(39):24123–8
Transport mechanism of the cloned potato H+/sucrose cotransporter StSUT1. Boorer KJ, et al. **J Biol Chem** 1996 Oct 11;271(41):25139–44
In vitro kinetic studies of formation of antigenic advanced glycation end products (AGEs). Novel inhibition of post–Amadori glycation pathways. Booth AA, et al. **J Biol Chem** 1997 Feb 28;272(9):5430–7
Role of protein targeting to glycogen (PTG) in the regulation of protein phosphatase–1 activity. Brady MJ, et al. **J Biol Chem** 1997 Aug 8;272(32):20198–204
The cysteine string secretory vesicle protein activates Hsc70 ATPase. Braun JEA, et al. **J Biol Chem** 1996 Oct 18; 271(42):25989–93
Inhibition of translational initiation by activators of the glucose–regulated stress protein and heat shock protein stress response systems. Role of the interferon–inducible double–stranded RNA–activated eukaryotic initiation factor 2alpha kinase. Brostrom CO, et al. **J Biol Chem** 1996 Oct 4;271(40):24995–5002
Luciferase assembly after transport into mammalian microsomes involves molecular chaperones and peptidyl–prolyl cis/trans–isomerases. Brunke M, et al. **J Biol Chem** 1996 Sep 20;271(38):23487–94
Ligand–dependent interaction of the aryl hydrocarbon receptor with a novel immunophilin homolog in vivo. Carver LA, et al. **J Biol Chem** 1997 Apr 25;272(17):11452–6
FAP48, a new protein that forms specific complexes with both immunophilins FKBP59 and FKBP12. Prevention by the immunosuppressant drugs FK506 and rapamycin. Chambraud B, et al. **J Biol Chem** 1996 Dec 20; 271(51):32923–9
FKBP–12 recognition is dispensable for signal generation by type I transforming growth factor–beta receptors. Charng MJ, et al. **J Biol Chem** 1996 Sep 20;271(38):22941–4
Adenovirus E1B 19–kDa death suppressor protein interacts with Bax but not with Bad. Chen G, et al. **J Biol Chem** 1996 Sep 27;271(39):24221–5
Characterization of the WW domain of human yes–associated protein and its polyproline–containing ligands. Chen HI, et al. **J Biol Chem** 1997 Jul 4;272(27):17070–7
Organelle–specific targeting of protein kinase AII (PKAII). Molecular and in situ characterization of murine A kinase anchor proteins that recruit regulatory subunits of PKAII to the cytoplasmic surface of mitochondria. Chen Q, et al. **J Biol Chem** 1997 Jun 13;272(24):15247–57
An intracellular trafficking defect in type I cystinuria rBAT mutants M467T and M467K. Chillarón J, et al. **J Biol Chem** 1997 Apr 4;272(14):9543–9
Identification of CDK4 sequences involved in cyclin D1 and p16 binding. Coleman KG, et al. **J Biol Chem** 1997 Jul 25;272(30):18869–74
The hepatitis B virus X–associated protein, XAP3, is a protein kinase C–binding protein. Cong YS, et al. **J Biol Chem** 1997 Jun 27;272(26):16482–9
Specific cleavage of alpha–fodrin during Fas– and tumor necrosis factor–induced apoptosis is mediated by an interleukin–1beta–converting enzyme/Ced–3 protease distinct from the poly(ADP–ribose) polymerase protease. Cryns VL, et al. **J Biol Chem** 1996 Dec 6;271(49):31277–82
Na:K:2Cl cotransporter (NKCC) of intestinal epithelial cells. Surface expression in response to cAMP. D'Andrea L, et al. **J Biol Chem** 1996 Nov 15;271(46):28969–76
p202, an interferon–inducible modulator of transcription, inhibits transcriptional activation by the p53 tumor suppressor protein, and a segment from the p53–binding protein 1 that binds to p202 overcomes this inhibition. Datta B, et al. **J Biol Chem** 1996 Nov 1;271(44):27544–55
Ligand–independent dimerization of the extracellular domain of the leptin receptor and determination of the stoichiometry of leptin binding. Devos R, et al. **J Biol Chem** 1997 Jul 18;272(29):18304–10
Characterization of the FET4 protein of yeast. Evidence for a direct role in the transport of iron. Dix D, et al. **J Biol Chem** 1997 May 2;272(18):11770–7
Stimulation of platelet activation and aggregation by a carboxyl–terminal peptide from thrombospondin binding to the integrin–associated protein receptor. Dorahy DJ, et al. **J Biol Chem** 1997 Jan 10;272(2):1323–30
A Ni2+ binding motif is the basis of high affinity transport of the Alcaligenes eutrophus nickel permease. Eitinger T, et al. **J Biol Chem** 1997 Jul 4;272(27):17139–44
Identification of an actin cytoskeletal complex that includes IQGAP and the Cdc42 GTPase. Erickson JW, et al. **J Biol Chem** 1997 Sep 26;272(39):24443–7
Disruption of the Saccharomyces cerevisiae homologue to the murine fatty acid transport protein impairs uptake and growth on long–chain fatty acids. Faergeman NJ, et al. **J Biol Chem** 1997 Mar 28;272(13):8531–8
Epstein–Barr virus nuclear antigen 1 forms a complex with the nuclear transporter karyopherin alpha2. Fischer N, et al. **J Biol Chem** 1997 Feb 14;272(7):3999–4005
Characterization of a novel Na+–dependent, guanosine–specific, nitrobenzylthioinosine–sensitive transporter in acute promyelocytic leukemia cells. Flanagan SA, et al. **J Biol Chem** 1997 Jul 18;272(29):18026–32
Involvement of protein kinase Cepsilon in the stimulation of anionic amino acid transport in cultured human fibroblasts. Franchi–Gazzola R, et al. **J Biol Chem** 1996 Oct 18;271(42):26124–30
Synthesis and characterization of selenolipoylated H–protein of the glycine cleavage system. Fujiwara K, et al. **J Biol Chem** 1997 Aug 8;272(32):19880–3
Regulated exocytosis in chromaffin cells. A potential role for a secretory granule–associated ARF6 protein. Galas MC, et al. **J Biol Chem** 1997 Jan 31;272(5):2788–93
Inhibition of the microsomal triglyceride transfer protein blocks the first step of apolipoprotein B lipoprotein assembly but not the addition of bulk core lipids in the second step. Gordon DA, et al. **J Biol Chem** 1996 Dec 20;271(51):33047–53
Identification of a 15–kDa cAMP–dependent protein kinase–anchoring protein associated with skeletal muscle L–type calcium channels. Gray PC, et al. **J Biol Chem** 1997 Mar 7;272(10):6297–302
Characterization of two SHP–2–associated binding proteins and potential substrates in hematopoietic cells. Gu H, et al. **J Biol Chem** 1997 Jun 27;272(26):16421–30
The acidic C–terminal domain of rna1p is required for the binding of Ran.GTP and for RanGAP activity. Haberland J, et al. **J Biol Chem** 1997 Sep 26;272(39):24717–26
Two modes of ligand binding in maltose–binding protein of Escherichia coli. Correlation with the structure of ligands and the structure of binding protein. Hall JA, et al. **J Biol Chem** 1997 Jul 11;272(28):17605–9
Two modes of ligand binding in maltose–binding protein of Escherichia coli. Electron paramagnetic resonance study of ligand–induced global conformational changes by site–directed spin labeling. Hall JA, et al. **J Biol Chem** 1997 Jul 11;272(28):17610–4
Two modes of ligand binding in maltose–binding protein of Escherichia coli. Functional significance in active transport. Hall JA, et al. **J Biol Chem** 1997 Jul 11; 272(28):17615–22
The first 5 amino acids of the carboxyl terminus of phosphatidylinositol transfer protein (PITP) alpha play a critical role in inositol lipid signaling. Transfer activity of PITP is essential but not sufficient for restoration of phospholipase C signaling. Hara S, et al. **J Biol Chem** 1997 Jun 6;272(23):14908–13
Mutational analysis of the A–kinase anchoring protein (AKAP)–binding site on RII. Classification Of side chain determinants for anchoring and isoform selective association with AKAPs. Hausken ZE, et al. **J Biol Chem** 1996 Nov 15;271(46):29016–22
The amino–terminal 118 amino acids of Escherichia coli trigger factor constitute a domain that is necessary and sufficient for binding to ribosomes. Hesterkamp T, et al. **J Biol Chem** 1997 Aug 29;272(35):21865–71
Isolation and characterization of a new member of the scavenger receptor superfamily, glycoprotein–340 (gp–340), as a lung surfactant protein–D binding molecule. Holmskov U, et al. **J Biol Chem** 1997 May 23; 272(21):13743–9
A novel RING finger protein, Vps8p, functionally interacts with the small GTPase, Vps21p, to facilitate soluble vacuolar protein localization. Horazdovsky BF, et al. **J Biol Chem** 1996 Dec 27;271(52):33607–15
Molecular analysis of ligand binding to the second cluster of complement–type repeats of the low density lipoprotein receptor–related protein. Evidence for an allosteric component in receptor–associated protein–mediated inhibition of ligand binding. Horn IR, et al. **J Biol Chem** 1997 May 23;272(21):13608–13
The Escherichia coli SlyD is a metal ion–regulated peptidyl–prolyl cis/trans–isomerase. Hottenrott S, et al. **J Biol Chem** 1997 Jun 20;272(25):15697–701
ATAR, a novel tumor necrosis factor receptor family member, signals through TRAF2 and TRAF5. Hsu H, et al. **J Biol Chem** 1997 May 23;272(21):13471–4
A novel family of viral death effector domain–containing molecules that inhibit both CD–95– and tumor necrosis factor receptor–1–induced apoptosis. Hu S, et al. **J Biol Chem** 1997 Apr 11;272(15):9621–4
I–FLICE, a novel inhibitor of tumor necrosis factor receptor–1– and CD–95–induced apoptosis. Hu S, et al.

J Biol Chem 1997 Jul 11;272(28):17255-7

Identification of a novel protein kinase A anchoring protein that binds both type I and type II regulatory subunits. Huang LJ, et al. **J Biol Chem** 1997 Mar 21;272(12):8057-64

Molecular mechanism of polyamine stimulation of the synthesis of oligopeptide-binding protein. Igarashi K, et al. **J Biol Chem** 1997 Feb 14;272(7):4058-64

Folding of the amino-terminal domain of apolipoprotein B initiates microsomal triglyceride transfer protein-dependent lipid transfer to nascent very low density lipoprotein. Ingram MF, et al. **J Biol Chem** 1997 Apr 11;272(15):10279-86

Ion and bumetanide binding by the Na-K-Cl cotransporter. Importance of transmembrane domains. Isenring P, et al. **J Biol Chem** 1997 Sep 26;272(39):24556-62

Identification of TRAF6, a novel tumor necrosis factor receptor-associated factor protein that mediates signaling from an amino-terminal domain of the CD40 cytoplasmic region. Ishida T, et al. **J Biol Chem** 1996 Nov 15; 271(46):28745-8

Molecular characterization of a novel human hybrid-type receptor that binds the alpha2-macroglobulin receptor-associated protein. Jacobsen L, et al. **J Biol Chem** 1996 Dec 6;271(49):31379-83

Reconstituted plant uncoupling mitochondrial protein allows for proton translocation via fatty acid cycling mechanism. Jeek P, et al. **J Biol Chem** 1997 Sep 26;272(39):24272-8

Evidence for anion-translocating plant uncoupling mitochondrial protein in potato mitochondria. Jeek P, et al. **J Biol Chem** 1996 Dec 20;271(51):32743-8

Interaction of auxilin with the molecular chaperone, Hsc70. Jiang RF, et al. **J Biol Chem** 1997 Mar 7;272(10):6141-5

Calmodulin modulates the interaction between IQGAP1 and Cdc42. Identification of IQGAP1 by nanoelectrospray tandem mass spectrometry. Joyal JL, et al. **J Biol Chem** 1997 Jun 13;272(24):15419-25

Trigger factor associates with GroEL in vivo and promotes its binding to certain polypeptides. Kandror O, et al. **J Biol Chem** 1997 Jan 17;272(3):1730-4

Arfaptin 1, a putative cytosolic target protein of ADP-ribosylation factor, is recruited to Golgi membranes. Kanoh H, et al. **J Biol Chem** 1997 Feb 28;272(9):5421-9

The alpha2beta1 integrin is a necessary co-receptor for collagen-induced activation of Syk and the subsequent phosphorylation of phospholipase Cgamma2 in platelets. Keely PJ, et al. **J Biol Chem** 1996 Oct 25;271(43):26668-76

Identification of a binding site in protease nexin I (PN1) required for the receptor mediated internalization of PN1-thrombin complexes. Knauer MF, et al. **J Biol Chem** 1997 May 9;272(19):12261-4

Dimerization of midkine by tissue transglutaminase and its functional implication. Kojima S, et al. **J Biol Chem** 1997 Apr 4;272(14):9410-6

Multiplicity of the beta form of the cAMP-dependent protein kinase inhibitor protein generated by post-translational modification and alternate translational initiation. Kumar P, et al. **J Biol Chem** 1997 Aug 8;272(32):20011-20

Protein-protein interaction of zinc finger LIM domains with protein kinase C. Kuroda S, et al. **J Biol Chem** 1996 Dec 6;271(49):31029-32

Secretion of protease nexin-1 by C6 glioma cells is under the control of a heterotrimeric G protein, Go1. Lagriffoul A, et al. **J Biol Chem** 1996 Dec 6;271(49):31508-16

A DNA-binding element for a steroid receptor-binding factor is flanked by dual nuclear matrix DNA attachment sites in the c-myc gene promoter. Lauber AH, et al. **J Biol Chem** 1997 Sep 26;272(39):24657-65

Alterations in the Chlamydomonas plastocyanin transit peptide have distinct effects on in vitro import and in vivo protein accumulation. Lawrence SD, et al. **J Biol Chem** 1997 Aug 15;272(33):20357-63

A 16-kDa protein functions as a new regulatory protein for Hsc70 molecular chaperone and is identified as a member of the Nm23/nucleoside diphosphate kinase family [published erratum appears in J Biol Chem 1997 May 2;272(18):12248] Leung SM, et al. **J Biol Chem** 1997 Jan 31;272(5):2607-14

Endoplasmic reticulum chaperones GRP78 and calreticulin prevent oxidative stress, Ca2+ disturbances, and cell death in renal epithelial cells. Liu H, et al. **J Biol Chem** 1997 Aug 29;272(35):21751-9

Mutations within the Ran/TC4 GTPase. Effects on regulatory factor interactions and subcellular localization. Lounsbury KM, et al. **J Biol Chem** 1996 Dec 20; 271(51):32834-41

Ran-binding protein 1 (RanBP1) forms a ternary complex with Ran and karyopherin beta and reduces Ran GTPase-activating protein (RanGAP) inhibition by karyopherin beta. Lounsbury KM, et al. **J Biol Chem** 1997 Jan 3;272(1):551-5

Inhibition of phospholipase D activity by fodrin. An active role for the cytoskeleton [published erratum appears in J Biol Chem 1996 Dec 13;271(50):32482] Lukowski S, et al. **J Biol Chem** 1996 Sep 27;271(39):24164-71

N-terminal domains of human copper-transporting adenosine triphosphatases (the Wilson's and Menkes disease proteins) bind copper selectively in vivo and in vitro with stoichiometry of one copper per metal-binding repeat. Lutsenko S, et al. **J Biol Chem** 1997 Jul 25;272(30):18939-44

Activation of the avian erythrocyte Na-K-Cl cotransport protein by cell shrinkage, cAMP, fluoride, and calyculin-A involves phosphorylation at common sites. Lytle C. **J Biol Chem** 1997 Jun 13;272(24):15069-77

A novel cytoplasmic protein that interacts with the Ah receptor, contains tetratricopeptide repeat motifs, and augments the transcriptional response to 2,3,7,8-tetrachlorodibenzo-p-dioxin. Ma Q, et al. **J Biol Chem** 1997 Apr 4;272(14):8878-84

Mouse lymphoma cells destined to undergo apoptosis in response to thapsigargin treatment fail to generate a calcium-mediated grp78/grp94 stress response. McCormick TS, et al. **J Biol Chem** 1997 Feb 28; 272(9):6087-92

Asparagine 394 in putative helix 11 of the galactose-H+ symport protein (GalP) from Escherichia coli is associated with the internal binding site for cytochalasin B and sugar. McDonald TP, et al. **J Biol Chem** 1997 Jun 13; 272(24):15189-99

Brain-derived neurotrophic factor binding to the p75 neurotrophin receptor reduces TrkA signaling while increasing serine phosphorylation in the TrkA intracellular domain. MacPhee IJ, et al. **J Biol Chem** 1997 Sep 19; 272(38):23547-51

Substrate-binding lipoprotein of the cyanobacterium Synechococcus sp. strain PCC 7942 involved in the transport of nitrate and nitrite. Maeda S, et al. **J Biol Chem** 1997 Jan 31;272(5):3036-41

Heparanase and a synthetic peptide of heparan sulfate-interacting protein recognize common sites on cell surface and extracellular matrix heparan sulfate. Marchetti D, et al. **J Biol Chem** 1997 Jun 20;272(25):15891-7

A p56(lck) ligand serves as a coactivator of an orphan nuclear hormone receptor. Marcus SL, et al. **J Biol Chem** 1996 Nov 1;271(44):27197-200

Apobec-1 interacts with a 65-kDa complementing protein to edit apolipoprotein-B mRNA in vitro. Mehta A, et al. **J Biol Chem** 1996 Nov 8;271(45):28294-9

Identification by site-directed mutagenesis of three arginines in uncoupling protein that are essential for nucleotide binding and inhibition. Modrianský M, et al. **J Biol Chem** 1997 Oct 3;272(40):24759-62

Native recombinant cyclophilins A, B, and C degrade DNA independently of peptidylprolyl cis-trans-isomerase activity. Potential roles of cyclophilins in apoptosis. Montague JW, et al. **J Biol Chem** 1997 Mar 7; 272(10):6677-84

Immunoglobulin binding protein (BiP) function is required to protect cells from endoplasmic reticulum stress but is not required for the secretion of selective proteins. Morris JA, et al. **J Biol Chem** 1997 Feb 14;272(7):4327-34

Molecular cloning of SLAP-130, an SLP-76-associated substrate of the T cell antigen receptor-stimulated protein tyrosine kinases. Musci MA, et al. **J Biol Chem** 1997 May 2;272(18):11674-7

Phospholipid transfer protein mediates transfer of not only phosphatidylcholine but also cholesterol from phosphatidylcholine-cholesterol vesicles to high density lipoproteins. Nishida HI, et al. **J Biol Chem** 1997 Mar 14; 272(11):6959-64

Cyclic ADP-ribose binds to FK506-binding protein 12.6 to release Ca2+ from islet microsomes. Noguchi N, et al. **J Biol Chem** 1997 Feb 7;272(6):3133-6

Symmetry of H+ binding to the intra- and extracellular side of the H+-coupled oligopeptide cotransporter PepT1. Nussberger S, et al. **J Biol Chem** 1997 Mar 21; 272(12):7777-85

Differential functions of triplicated repeats suggest two independent roles for the receptor-associated protein as a molecular chaperone. Obermoeller LM, et al. **J Biol Chem** 1997 Apr 18;272(16):10761-8

Identification of an actin binding region and a protein kinase C phosphorylation site on human fascin. Ono S, et al. **J Biol Chem** 1997 Jan 24;272(4):2527-33

Characterization of the rat thyroid iodide transporter using anti-peptide antibodies. Relationship between its expression and activity. Paire A, et al. **J Biol Chem** 1997 Jul 18; 272(29):18245-9

Characterization of p150, an adaptor protein for the human phosphatidylinositol (PtdIns) 3-kinase. Substrate presentation by phosphatidylinositol transfer protein to the p150.PtdIns 3-kinase complex. Panaretou C, et al. **J Biol Chem** 1997 Jan 24;272(4):2477-85

High levels of the GTPase Ran/TC4 relieve the requirement for nuclear protein transport factor 2. Paschal BM, et al. **J Biol Chem** 1997 Aug 22;272(34):21534-9

Biphasic binding kinetics between FepA and its ligands. Payne MA, et al. **J Biol Chem** 1997 Aug 29;272(35):21950-5

Sorting of two polytopic proteins, the gamma-aminobutyric acid and betaine transporters, in polarized epithelial cells. Perego C, et al. **J Biol Chem** 1997 Mar 7;272(10):6584-92

Parathyroid hormone-dependent degradation of type II Na+/Pi cotransporters. Pfister MF, et al. **J Biol Chem** 1997 Aug 8;272(32):20125-30

In vitro interaction between a chloroplast transit peptide and chloroplast outer envelope lipids is sequence-specific and lipid class-dependent. Pinnaduwage P, et al. **J Biol Chem** 1996 Dec 20;271(51):32907-15

The human testis determining factor SRY binds a nuclear factor containing PDZ protein interaction domains. Poulat F, et al. **J Biol Chem** 1997 Mar 14;272(11):7167-72

Chaperone properties of the bacterial periplasmic substrate-binding proteins. Richarme G, et al. **J Biol Chem** 1997 Jun 20;272(25):15607-12

Thermodynamic and kinetic properties of fatty acid interactions with rat liver fatty acid-binding protein. Richieri GV, et al. **J Biol Chem** 1996 Dec 6; 271(49):31068-74

Differential signaling after beta1 integrin ligation is mediated through binding of CRKL to p120(CBL) and p110(HEF1). Sattler M, et al. **J Biol Chem** 1997 May 30;272(22):14320-6

MADD, a novel death domain protein that interacts with the type 1 tumor necrosis factor receptor and activates mitogen-activated protein kinase. Schievella AR, et al. **J Biol Chem** 1997 May 2;272(18):12069-75

The reversible antiport-uniport conversion of the phosphate carrier from yeast mitochondria depends on the presence of a single cysteine. Schroers A, et al. **J Biol Chem** 1997 Apr 18;272(16):10558-64

Aspartate 19 and glutamate 121 are critical for transport function of the myo-inositol/H+ symporter from Leishmania donovani. Seyfang A, et al. **J Biol Chem** 1997 Sep 26;272(39):24210-5

Phosphorylation events modulate the ability of interferon consensus sequence binding protein to interact with interferon regulatory factors and to bind DNA. Sharf R, et al. **J Biol Chem** 1997 Apr 11;272(15):9785-92

Emopamil-binding protein, a mammalian protein that binds a series of structurally diverse neuroprotective agents, exhibits delta8-delta7 sterol isomerase activity in yeast. Silve S, et al. **J Biol Chem** 1996 Sep 13;271(37):22434-40

Reconstitution of bile acid transport in a heterologous cell by cotransfection of transporters for bile acid uptake and efflux. Sippel CJ, et al. **J Biol Chem** 1997 Jul 18; 272(29):18290-7

FLAME-1, a novel FADD-like anti-apoptotic molecule that regulates Fas/TNFR1-induced apoptosis. Srinivasula SM, et al. **J Biol Chem** 1997 Jul 25;272(30):18542-5

Induced nitric oxide synthesis is dependent on induced alternatively spliced CAT-2 encoding L-arginine transport in brain astrocytes. Stevens BR, et al. **J Biol Chem** 1996 Sep 27;271(39):24017-22

Fumonisin B1-induced sphingolipid depletion inhibits vitamin uptake via the glycosylphosphatidylinositol-anchored folate receptor. Stevens VL, et al. **J Biol Chem** 1997 Jul 18;272(29):18020-5

Association between receptor protein-tyrosine phosphatase RPTPalpha and the Grb2 adaptor. Dual Src homology (SH) 2/SH3 domain requirement and functional consequences. Su J, et al. **J Biol Chem** 1996 Nov 8; 271(45):28086-96

Mutagenesis of a potential immunoglobulin-binding protein-binding site enhances secretion of coagulation factor VIII. Swaroop M, et al. **J Biol Chem** 1997 Sep 26; 272(39):24121-4

Cellular binding of soluble CD14 requires lipopolysaccharide (LPS) and LPS-binding protein. Tapping RI, et al. **J Biol Chem** 1997 Sep 12;272(37):23157-64

An active mechanism for completion of the final stage of protein degradation in the liver, lysosomal transport of dipeptides. Thamotharan M, et al. **J Biol Chem** 1997 May 2;272(18):11786-90

Interaction of phosducin-like protein with G protein betagamma subunits. Thibault C, et al. **J Biol Chem** 1997 May 9;272(19):12253-6

Synthesis of GDP-L-fucose by the human FX protein. Tonetti M, et al. **J Biol Chem** 1996 Nov 1;271(44):27274-9

Close association of the first and fourth extracellular domains of the Duffy antigen/receptor for chemokines by a disulfide bond is required for ligand binding. Tournamille C, et al. **J Biol Chem** 1997 Jun 27;272(26):16274-80

The role of a lymphoid-restricted, Grb2-like SH3-SH2-SH3 protein in T cell receptor signaling. Trüb T, et al. **J Biol Chem** 1997 Jan 10;272(2):894-902

Protease involvement in fodrin cleavage and phosphatidylserine exposure in apoptosis. Vanags DM, et al. **J Biol Chem** 1996 Dec 6;271(49):31075-85

Specific testicular cellular localization and hormonal regulation of the PKIalpha and PKIbeta isoforms of the inhibitor protein of the cAMP-dependent protein kinase. Van Patten SM, et al. **J Biol Chem** 1997 Aug 8; 272(32):20021-9

The salivary lipocalin von Ebner's gland protein is a cysteine proteinase inhibitor. van't Hof W, et al. **J Biol Chem** 1997 Jan 17;272(3):1837-41

Active transport of acetylcholine by the human vesicular acetylcholine transporter. Varoqui H, et al. **J Biol Chem** 1996 Nov 1;271(44):27229-32

Protein kinase C-mediated phosphorylation and functional regulation of dopamine transporters in striatal synaptosomes. Vaughan RA, et al. **J Biol Chem** 1997 Jun 13;272(24):15541-6

Transit peptides play a major role in the preferential import of proteins into leucoplasts and chloroplasts. Wan J, et al. **J Biol Chem** 1996 Dec 6;271(49):31227-33

Binding of H-2Kb-specific peptides to TAP and major histocompatibility complex class I in microsomes from wild-type, TAP1, and beta2-microglobulin mutant mice. Wang P, et al. **J Biol Chem** 1996 Oct 4;271(40):24830-5

Normal activity of microsomal triglyceride transfer protein is required for the oleate-induced secretion of very low density lipoproteins containing apolipoprotein B from McA-RH7777 cells. Wang Y, et al. **J Biol Chem** 1997 May 9;272(19):12272-8

Leptin receptor (OB-R) signaling. Cytoplasmic domain mutational analysis and evidence for receptor homo-oligomerization [published erratum appears in J Biol

Chem 1997 May 2;272(18):12248] White DW, et al. **J Biol Chem** 1997 Feb 14;272(7):4065–71

The retinal specific protein RGS–r competes with the gamma subunit of cGMP phosphodiesterase for the alpha subunit of transducin and facilitates signal termination. Wieland T, et al. **J Biol Chem** 1997 Apr 4;272(14):8853–6

Casein kinase II catalyzes tyrosine phosphorylation of the yeast nucleolar immunophilin Fpr3. Wilson LK, et al. **J Biol Chem** 1997 May 16;272(20):12961–7

Efflux of the natural polyamine spermidine facilitated by the Bacillus subtilis multidrug transporter Blt. Woolridge DP, et al. **J Biol Chem** 1997 Apr 4;272(14):8864–6

Ligand specificity of brain lipid–binding protein. Xu LZ, et al. **J Biol Chem** 1996 Oct 4;271(40):24711–9

The molecular interaction of Fas and FAP–1. A tripeptide blocker of human Fas interaction with FAP–1 promotes Fas–induced apoptosis. Yanagisawa J, et al. **J Biol Chem** 1997 Mar 28;272(13):8539–45

ASCT–1 is a neutral amino acid exchanger with chloride channel activity. Zerangue N, et al. **J Biol Chem** 1996 Nov 8;271(45):27991–4

BH3 domain of BAD is required for heterodimerization with BCL–XL and pro–apoptotic activity. Zha J, et al. **J Biol Chem** 1997 Sep 26;272(39):24101–4

Defective folding of mutant p16(INK4) proteins encoded by tumor–derived alleles. Zhang B, et al. **J Biol Chem** 1996 Nov 15;271(46):28734–7

Impact of overexpression of the reduced folate carrier (RFC1), an anion exchanger, on concentrative transport in murine L1210 leukemia cells. Zhao R, et al. **J Biol Chem** 1997 Aug 22;272(34):21207–12

Molecular cloning of human plasma membrane phospholipid scramblase. A protein mediating transbilayer movement of plasma membrane phospholipids. Zhou Q, et al. **J Biol Chem** 1997 Jul 18;272(29):18240–4

Cellular and molecular mechanisms of renal phosphate transport. Tenenhouse HS. **J Bone Miner Res** 1997 Feb; 12(2):159–64 (64 ref.)

Na+/Ca2+ exchange in rat osteoblast–like UMR 106 cells. White KE, et al. **J Bone Miner Res** 1996 Nov; 11(11):1666–75

IQGAP1, a Rac– and Cdc42–binding protein, directly binds and cross–links microfilaments. Bashour AM, et al. **J Cell Biol** 1997 Jun 30;137(7):1555–66

ICAP–1, a novel beta1 integrin cytoplasmic domain–associated protein, binds to a conserved and functionally important NPXY sequence motif of beta1 integrin. Chang DD, et al. **J Cell Biol** 1997 Sep 8; 138(5):1149–57

Microtubule–associated protein 2c reorganizes both microtubules and microfilaments into distinct cytological structures in an actin–binding protein–280–deficient melanoma cell line. Cunningham CC, et al. **J Cell Biol** 1997 Feb 24;136(4):845–57

A novel Rab9 effector required for endosome–to–TGN transport. Díaz E, et al. **J Cell Biol** 1997 Jul 28; 138(2):283–90

LI–cadherin–mediated cell–cell adhesion does not require cytoplasmic interactions. Kreft B, et al. **J Cell Biol** 1997 Mar 10;136(5):1109–21

Tim23, a protein import component of the mitochondrial inner membrane, is required for normal activity of the multiple conductance channel, MCC. Lohret TA, et al. **J Cell Biol** 1997 Apr 21;137(2):377–86

A novel ubiquitin–like modification modulates the partitioning of the Ran–GTPase–activating protein RanGAP1 between the cytosol and the nuclear pore complex. Matunis MJ, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1457–70

Latent transforming growth factor–beta binding protein domains involved in activation and transglutaminase–dependent cross–linking of latent transforming growth factor–beta. Nunes I, et al. **J Cell Biol** 1997 Mar 10;136(5):1151–63

Endoplasmic reticulum stress–inducible protein GRP94 is associated with an Mg2+–dependent serine kinase activity modulated by Ca2+ and GRP78/BiP. Ramakrishnan M, et al. **J Cell Physiol** 1997 Feb;170(2):115–29

Identification and characterization of espin, an actin–binding protein localized to the F–actin–rich junctional plaques of Sertoli cell ectoplasmic specializations. Bartles JR, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1229–39

ERD2 proteins mediate ER retention of the HNEL signal of LRP's receptor–associated protein (RAP). Bu G, et al. **J Cell Sci** 1997 Jan;110 (Pt 1):65–73

The speed of partial reactions of the uncoating ATPase Hsc70 depends on the source of coated vesicles. Buxbaum E, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):705–11

Characterization of VIP36, an animal lectin homologous to leguminous lectins. Fiedler K, et al. **J Cell Sci** 1996 Jan; 109 (Pt 1):271–6

Nuclear import of hnRNP A1 is mediated by a novel cellular cofactor related to karyopherin–beta. Fridell RA, et al. **J Cell Sci** 1997 Jun;110 (Pt 11):1325–31

The carboxyl terminus of myosin binding protein C (MyBP–C, C–protein) specifies incorporation into the A–band of striated muscle. Gilbert R, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):101–11

The role of the cortical cytoskeleton: F–actin crosslinking proteins protect against osmotic stress, ensure cell size, cell shape and motility, and contribute to phagocytosis and development. Rivero F, et al. **J Cell Sci** 1996 Nov;109 (Pt 11):2679–91

Molecular cloning, over–expression, developmental regulation and immunolocalization of fragminP, a gelsolin–related actin–binding protein from Physarum polycephalum plasmodia. T'Jampens D, et al. **J Cell Sci** 1997 May;110 (Pt 10):1215–26

N–tropomodulin: a novel isoform of tropomodulin identified as the major binding protein to brain tropomyosin. Watakabe A, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2299–310

Evidence for colocalization and interaction between 37 and 39 kDa isoforms of secretory carrier membrane proteins (SCAMPs). Wu TT, et al. **J Cell Sci** 1997 Jul;110 (Pt 13):1533–41

Stress proteins and tolerance to focal cerebral ischemia. Chen J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):566–77

Changes in amniotic fluid immunoreactive corticotropin–releasing factor (CRF) and CRF–binding protein levels in pregnant women at term and during labor. Florio P, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):835–8

Visceral adipose tissue is associated with circulating high affinity growth hormone–binding protein. Roelen CA, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):760–4

Generation and characterization of an IGFBP–7 antibody: identification of 31kD IGFBP–7 in human biological fluids and Hs578T human breast cancer conditioned media. Wilson EM, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1301–3

Mobilferrin is an intermediate in iron transport between transferrin and hemoglobin in K562 cells. Conrad ME, et al. **J Clin Invest** 1996 Sep 15;98(6):1449–54

Regulation of sodium–dependent phosphate transport in osteoclasts. Gupta A, et al. **J Clin Invest** 1997 Aug 1; 100(3):538–49

Increased prebeta–high density lipoprotein, apolipoprotein AI, and phospholipid in mice expressing the human phospholipid transfer protein and human apolipoprotein AI transgenes. Jiang X, et al. **J Clin Invest** 1996 Nov 15; 98(10):2373–80

Evidence of free and bound leptin in human circulation. Studies in lean and obese subjects and during short–term fasting. Sinha MK, et al. **J Clin Invest** 1996 Sep 15; 98(6):1277–82

Scott syndrome erythrocytes contain a membrane protein capable of mediating Ca2+–dependent transbilayer migration of membrane phospholipids. Stout JG, et al. **J Clin Invest** 1997 May 1;99(9):2232–8

Lipopolysaccharide binding protein and soluble CD14 catalyze exchange of phospholipids. Yu B, et al. **J Clin Invest** 1997 Jan 15;99(2):315–24

Vesicular acetylcholine transporter (VAChT) protein: a novel and unique marker for cholinergic neurons in the central and peripheral nervous systems. Arvidsson U, et al. **J Comp Neurol** 1997 Feb 24;378(4):454–67

Gephyrin accumulates at specific plasmalemma loci during neuronal maturation in vitro. Colin I, et al. **J Comp Neurol** 1996 Oct 21;374(3):467–79

Neuronal localization of the cyclophilin A protein in the adult rat brain. Göldner FM, et al. **J Comp Neurol** 1996 Aug 19;372(2):283–93

Xefiltin, a new low molecular weight neuronal intermediate filament protein of Xenopus laevis, shares sequence features with goldfish gefiltin and mammalian alpha–internexin and differs in expression from XNIF and NF–L. Zhao Y, et al. **J Comp Neurol** 1997 Jan 20;377(3):351–64

Na(+)–dependent Ca2+ uptake in isolated opercular epithelium of Fundulus heteroclitus. Verbost PM, et al. **J Comp Physiol [B]** 1997 Apr;167(3):205–12

Human neutrophil gelatinase and associated lipocalin in adult and localized juvenile periodontitis. Westerlund U, et al. **J Dent Res** 1996 Aug;75(8):1553–63

Molecular characteristics of mammalian and insect amino acid transporters: implications for amino acid homeostasis. Castagna M, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):269–86 (200 ref.)

Crucial role of interferon consensus sequence binding protein, but neither of interferon regulatory factor 1 nor of nitric oxide synthesis for protection against murine listeriosis. Fehr T, et al. **J Exp Med** 1997 Mar 3;185(5):921–31

Collagen–induced arthritis is reduced in 5–lipoxygenase–activating protein–deficient mice. Griffiths RJ, et al. **J Exp Med** 1997 Mar 17;185(6):1123–9

Natural resistance to infection with intracellular pathogens: the Nramp1 protein is recruited to the membrane of the phagosome. Gruenheid S, et al. **J Exp Med** 1997 Feb 17; 185(4):717–30

Elevated [Cl–]i, and [Na+]i inhibit Na+, K+, Cl– cotransport by different mechanisms in squid giant axons. Breitwieser GE, et al. **J Gen Physiol** 1996 Feb; 107(2):261–70

NO3––induced pH changes in mammalian cells. Evidence for an NO3––H+ cotransporter. Chow CW, et al. **J Gen Physiol** 1997 Aug;110(2):185–200

Barium influx mediated by the cardiac sodium–calcium exchanger in transfected Chinese hamster ovary cells. Condrescu M, et al. **J Gen Physiol** 1997 Jan;109(1):41–51

A thermodynamic study of electroneutral K–Cl cotransport in pH– and volume–clamped low K sheep erythrocytes with normal and low internal magnesium. Lauf PK, et al. **J Gen Physiol** 1996 Oct;108(4):341–50

Regulation of cardiac Na(+)–Ca2+ exchanger by the endogenous XIP region. Matsuoka S, et al. **J Gen Physiol** 1997 Feb;109(2):273–86

Transport and regulation of the cardiac Na(+)–Ca2+ exchanger, NCX1. Comparison between Ca2+ and Ba2+. Trac M, et al. **J Gen Physiol** 1997 Mar;109(3):361–9

Acceleration of sodium–calcium exchange activity during ATP–induced calcium release in transfected Chinese hamster ovary cells. Vázquez M, et al. **J Gen Physiol** 1997 Jan;109(1):53–60

Multispecific amphipathic substrate transport by an organic anion transporter of human liver. Bossuyt X, et al. **J Hepatol** 1996 Nov;25(5):733–8

Ion transport in hepatocytes: mechanisms and correlations to cell volume, hormone actions and metabolism. Graf J, et al. **J Hepatol** 1996;24 Suppl 1:53–77 (315 ref.)

What we have learned about bumetanide and the concept of multispecific bile acid/drug transporters from the liver. Petzinger E, et al. **J Hepatol** 1996;24 Suppl 1:42–6 (33 ref.)

Phosphatidylinositol transfer protein in lung: cellular and subcellular localization. Ibrahim AM, et al. **J Histochem Cytochem** 1997 Apr;45(4):551–8

Expression of dopamine transporter at the tips of growing neurites of PC12 cells. Kadota T, et al. **J Histochem Cytochem** 1996 Sep;44(9):989–96

Cellular distribution of the angiogenic factor heparin affin regulatory peptide (HARP) mRNA and protein in the human mammary gland. Ledoux D, et al. **J Histochem Cytochem** 1997 Sep;45(9):1239–45

Induction of TNF–alpha in human peripheral blood mononuclear cells by the mannoprotein of Cryptococcus neoformans involves human mannose binding protein. Chaka W, et al. **J Immunol** 1997 Sep 15;159(6):2979–85

A highly variable region in members of the streptococcal M protein family binds the human complement regulator C4BP. Johnsson E, et al. **J Immunol** 1996 Oct 1; 157(7):3021–9

Natural resistance to intracellular infections: Nramp1 encodes a membrane phosphoglycoprotein absent in macrophages from susceptible (Nramp1 D169) mouse strains. Vidal SM, et al. **J Immunol** 1996 Oct 15;157(8):3559–68

Lipopolysaccharide–binding protein and soluble CD14 transfer lipopolysaccharide to phospholipid bilayers: preferential interaction with particular classes of lipid. Wurfel MM, et al. **J Immunol** 1997 Apr 15;158(8):3925–34

Conjugation to preadsorbed preactivated proteins and efficient generation of anti peptide antibodies. Houen G, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):125–34

Identification of key gene products required for acquisition of plasmin–like enzymatic activity by group A streptococci. Christner R, et al. **J Infect Dis** 1997 May;175(5):1115–20

Interaction of human mannose–binding protein with Mycobacterium avium. Polotsky VY, et al. **J Infect Dis** 1997 May;175(5):1159–68

Reactivity of murine and human recombinant LPS–binding protein (LBP) within LPS and gram negative bacteria. Lengacher S, et al. **J Inflamm** 1995–96;47(4):165–72

Expression of the human NRAMP1 gene in professional primary phagocytes: studies in blood cells and in HL–60 promyelocytic leukemia. Cellier M, et al. **J Leukoc Biol** 1997 Jan;61(1):96–105

Quantitative and compositional changes in high density lipoprotein subclasses in patients with various genotypes of cholesteryl ester transfer protein deficiency. Chiba H, et al. **J Lipid Res** 1997 Jun;38(6):1204–16

Developmental down–regulation of receptor–mediated endocytosis of an insect lipoprotein. Dantuma NP, et al. **J Lipid Res** 1997 Feb;38(2):254–65

Interaction of an insect lipoprotein with its binding site at the fat body. Dantuma NP, et al. **J Lipid Res** 1996 Jun; 37(6):1345–55

Fibroblast membrane sterol kinetic domains: modulation by sterol carrier protein–2 and liver fatty acid binding protein. Frolov A, et al. **J Lipid Res** 1996 Sep;37(9):1862–74

Structural determinants for the interaction of lipopolysaccharide binding protein with purified high density lipoproteins: role of apolipoprotein A–I. Massamiri T, et al. **J Lipid Res** 1997 Mar;38(3):516–25

Evidence for electronegativity of plasma high density lipoprotein–3 as one major determinant of human cholesteryl ester transfer protein activity. Masson D, et al. **J Lipid Res** 1996 Jul;37(7):1579–90

Plasma cholesteryl ester transfer activity is modulated by the phase transition of the lipoprotein core. Morton RE, et al. **J Lipid Res** 1996 Sep;37(9):1915–23

Lipoprotein lipase degradation by adipocytes: receptor–associated protein (RAP)–sensitive and proteoglycan–mediated pathways. Obunike JC, et al. **J Lipid Res** 1996 Nov;37(11):2439–49

Lipid transfer from insect fat body to lipophorin: comparison between a mosquito triacylglycerol–rich lipophorin and a sphinx moth diacylglycerol–rich lipophorin. Pennington JE, et al. **J Lipid Res** 1996 May;37(5):1144–52

Synthesis and transporter binding properties of 3 beta–(4'–alkyl–, 4'–alkenyl–, and 4'–alkynylphenyl)nortropane–2 beta–carboxylic acid methyl esters: serotonin transporter selective analogs. Blough BE, et al. **J Med Chem** 1996 Sep 27;39(20):4027–35

Synthesis and dopamine transporter affinity of 2–(methoxycarbonyl)–9–methyl–3–phenyl–9–azabicyclo[3.3.1]nonane derivatives. Chen Z, et al. **J Med Chem** 1996 Nov 22;39(24):4744–9

Highly selective, novel analogs of 4–[2–(diphenylmethoxy)ethyl]– 1–benzylpiperidine for the

dopamine transporter: effect of different aromatic substitutions on their affinity and selectivity. Dutta AK, et al. **J Med Chem** 1997 Jan 3;40(1):35–43

Synthesis and ligand binding of nortropane derivatives: N–substituted 2beta–carbomethoxy–3beta–(4'–iodophenyl)nortropane and N–(3–iodoprop–(2E)–enyl)–2beta–carbomethoxy–3beta–(3',4'–disubstituted phenyl)nortropane. New high–affinity and selective compounds for the dopamine transporter. Emond P, et al. **J Med Chem** 1997 Apr 25;40(9):1366–72

3 alpha–(4'–substituted phenyl)tropane–2 beta–carboxylic acid methyl esters: novel ligands with high affinity and selectivity at the dopamine transporter. Holmquist CR, et al. **J Med Chem** 1996 Oct 11;39(21):4139–41

3'–Chloro–3 alpha–(diphenylmethoxy)tropane but not 4'–chloro–3 alpha–(diphenylmethoxy)tropane produces a cocaine–like behavioral profile. Kline RH, et al. **J Med Chem** 1997 Mar 14;40(6):851–7

Heteroaromatic analogs of 1–[2–(diphenylmethoxy)ethyl]– and 1–[2–[bis(4–fluorophenyl)methoxy]ethyl]–4–(3–phenylpropyl)piperazines (GBR 12935 and GBR 12909) as high–affinity dopamine reuptake inhibitors. Matecka D, et al. **J Med Chem** 1997 Feb 28;40(5):705–16

A technetium–99m SPECT imaging agent which targets the dopamine transporter in primate brain. Meltzer PC, et al. **J Med Chem** 1997 Jun 6;40(12):1835–44

Synthesis and ligand binding studies of 4'–iodobenzoyl esters of tropanes and piperidines at the dopamine transporter. Singh S, et al. **J Med Chem** 1997 Aug 1;40(16):2474–81

Synthesis, dopamine transporter affinity, dopamine uptake inhibition, and locomotor stimulant activity of 2–substituted 3 beta–phenyltropane derivatives. Xu L, et al. **J Med Chem** 1997 Mar 14;40(6):858–63

Oxidative activation of K–Cl cotransport by diamide in erythrocytes from humans with red cell disorders, and from several other mammalian species. Adragna NC, et al. **J Membr Biol** 1997 Feb 1;155(3):207–17

Transport of charged dipeptides by the intestinal H+/peptide symporter PepT1 expressed in Xenopus laevis oocytes. Amasheh S, et al. **J Membr Biol** 1997 Feb 1; 155(3):247–56

The binding specificity of amino acid transport system y+L in human erythrocytes is altered by monovalent cations. Angelo S, et al. **J Membr Biol** 1996 Sep;153(1):37–44

Renal cortical basolateral Na+/HCO3– cotransporter: IV. Characterization and localization with polyclonal antibodies. Bernardo AA, et al. **J Membr Biol** 1996 Nov; 154(2):155–62

rBAT is an amino acid exchanger with variable stoichiometry. Coady MJ, et al. **J Membr Biol** 1996 Jan; 149(1):1–8

Clustering of GPI–anchored folate receptor independent of both cross–linking and association with caveolin. Wu M, et al. **J Membr Biol** 1997 Sep 15;159(2):137–47

A kinetic model with ordered cytoplasmic dissociation for SUC1, an Arabidopsis H+/sucrose cotransporter expressed in Xenopus oocytes. Zhou J, et al. **J Membr Biol** 1997 Sep 15;159(2):113–25

Separate binding sites on nuclear transport factor 2 (NTF2) for GDP–Ran and the phenylalanine–rich repeat regions of nucleoporins p62 and Nsp1p. Clarkson WD, et al. **J Mol Biol** 1996 Nov 8;263(4):517–24

Module swaps between related translocator proteins pIV(f1), pIV(IKe) and PulD: identification of a specificity domain. Daefler S, et al. **J Mol Biol** 1997 Mar 14;266(5):978–92

Role of mitochondrial GrpE and phosphate in the ATPase cycle of matrix Hsp70. Dekker PJ, et al. **J Mol Biol** 1997 Jul 18;270(3):321–7

Induction and repair of cyclobutane pyrimidine dimers in the Escherichia coli tRNA gene tyrT: Fis protein affects dimer induction in the control region and suppresses preferential repair in the coding region of the transcribed strand, except in a short region near the transcription start site. Li S, et al. **J Mol Biol** 1997 Aug 8;271(1):31–46

Mge1 functions as a nucleotide release factor for Ssc1, a mitochondrial Hsp70 of Saccharomyces cerevisiae. Miao B, et al. **J Mol Biol** 1997 Feb 7;265(5):541–52

Recognition of bacteriophage Qbeta plus strand RNA as a template by Qbeta replicase: role of RNA interactions mediated by ribosomal proteins S1 and host factor. Miranda G, et al. **J Mol Biol** 1997 Apr 18;267(5):1089–103

The rate of isomerisation of peptidyl–proline bonds as a probe for interactions in the physiological denatured state of chymotrypsin inhibitor 2. Tan YJ, et al. **J Mol Biol** 1997 Jun 20;269(4):611–22

A mutation in the human cyclin–dependent kinase interacting protein, CksHs2, interferes with cyclin–dependent kinase binding and biological function, but preserves protein structure and assembly. Watson MH, et al. **J Mol Biol** 1996 Sep 6;261(5):646–57

Activation of RpoS–dependent proP P2 transcription by the Fis protein in vitro. Xu J, et al. **J Mol Biol** 1997 Jul 18; 270(3):346–59

Molecular recognition in the HIV–1 capsid/cyclophilin A complex. Yoo S, et al. **J Mol Biol** 1997 Jun 27;269(5):780–95

The origin of increased cytoplasmic calcium upon reversal of the Na+/Ca(2+)–exchanger in isolated rat ventricular myocytes. Baartscheer A, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1963–73

The role of neurotransporters in excitotoxicity, neuronal cell death, and other neurodegenerative processes. Lesch KP, et al. **J Mol Med** 1996 Jul;74(7):365–78 (107 ref.)

The canalicular multispecific organic anion transporter and conjugated hyperbilirubinemia in rat and man. Paulusma CC, et al. **J Mol Med** 1997 Jun;75(6):420–8 (106 ref.)

Assembly of the cardiac I–band region of titin/connectin: expression of the cardiac–specific regions and their structural relation to the elastic segments. Gautel M, et al. **J Muscle Res Cell Motil** 1996 Aug;17(4):449–61

Changes in the serotonin transporter in the hippocampus of subjects with schizophrenia identified using [3H]paroxetine. Naylor L, et al. **J Neural Transm Gen Sect** 1996; 103(6):749–57

Molecular heterogeneity of neurotransporters: implications for neurodegeneration. Lesch KP, et al. **J Neural Transm Suppl** 1997;49:155–67 (33 ref.)

The alpha1 subunit of laminin–1 promotes the development of neurons by interacting with LBP110 expressed by neural crest–derived cells immunoselected from the fetal mouse gut. Chalazonitis A, et al. **J Neurobiol** 1997 Aug; 33(2):118–38

Corticotropin–releasing factor (CRF), CRF–binding protein (CRF–BP), and CRF/CRF–BP complex in Alzheimer's disease and control postmortem human brain. Behan DP, et al. **J Neurochem** 1997 May;68(5):2053–60

Modeling of the interaction of Na+ and K+ with the binding of the cocaine analogue 3beta–(4–[125I]iodophenyl)tropane–2beta–carboxylic acid isopropyl ester to the dopamine transporter. Chen NH, et al. **J Neurochem** 1997 May;68(5):1968–81

Dopamine transporter is required for in vivo MPTP neurotoxicity: evidence from mice lacking the transporter. Gainetdinov RR, et al. **J Neurochem** 1997 Sep;69(3):1322–5

Phorbol esters increase dopamine transporter phosphorylation and decrease transport Vmax. Huff RA, et al. **J Neurochem** 1997 Jan;68(1):225–32

The neuronal nitric oxide synthase inhibitor, 7–nitroindazole, protects against methamphetamine–induced neurotoxicity in vivo. Itzhak Y, et al. **J Neurochem** 1996 Oct;67(4):1770–3

K–252b potentiation of neurotrophin–3 is trkA specific in cells lacking p75NTR. Maroney AC, et al. **J Neurochem** 1997 Jan;68(1):88–94

Characterization of a sulfoglucuronyl carbohydrate binding protein in the developing nervous system. Nair SM, et al. **J Neurochem** 1997 Mar;68(3):1286–97

Catecholamine secretion from bovine adrenal chromaffin cells: the role of the Na+/Ca2+ exchanger and the intracellular Ca2+ pool. Pan CY, et al. **J Neurochem** 1997 Sep;69(3):1085–92

Preferential vulnerability of nucleus accumbens dopamine binding sites to low–level lead exposure: time course of effects and interactions with chronic dopamine agonist treatments. Pokora MJ, et al. **J Neurochem** 1996 Oct; 67(4):1540–50

A multisubstrate kinetic mechanism of dopamine transport in the nucleus accumbens and its inhibition by cocaine. Povlock SL, et al. **J Neurochem** 1997 Sep;69(3):1093–105

Modulation of serotonin transporter activity by a protein kinase C activator and an inhibitor of type 1 and 2A serine/threonine phosphatases. Sakai N, et al. **J Neurochem** 1997 Jun;68(6):2618–24

Inhibition of ischemia–induced fodrin breakdown by a novel phenylpyrimidine derivative NS–7: an implication for its neuroprotective action in rats with middle cerebral artery occlusion. Takagaki Y, et al. **J Neurochem** 1997 Jun; 68(6):2507–13

Role of Na(+)–Ca2+ exchanger in agonist–induced Ca2+ signaling in cultured rat astrocytes. Takuma K, et al. **J Neurochem** 1996 Nov;67(5):1840–5

Identification of a system N–like Na(+)–dependent glutamine transport activity in rat brain neurons. Tamarappoo BK, et al. **J Neurochem** 1997 Mar;68(3):954–60

Species– and brain region–specific dopamine transporters: immunological and glycosylation characteristics. Vaughan RA, et al. **J Neurochem** 1996 May;66(5):2146–52

Cations affect [3H]mazindol and [3H]WIN 35,428 binding to the human dopamine transporter in a similar fashion. Wu Q, et al. **J Neurochem** 1997 Sep;69(3):1106–18

L–aspartate but not the D form is secreted through microvesicle–mediated exocytosis and is sequestered through Na+–dependent transporter in rat pinealocytes. Yatsushiro S, et al. **J Neurochem** 1997 Jul;69(1):340–7

Down–regulation of norepinephrine transporters on PC12 cells by transporter inhibitors. Zhu MY, et al. **J Neurochem** 1997 Jan;68(1):134–41

Localization of Trk neurotrophin receptor–like proteins in avian primary lymphoid organs (thymus and bursa of Fabricius). Ciriaco E, et al. **J Neuroimmunol** 1996 Sep; 69(1–2):73–83

Anti–brain spectrin immunoreactivity in Alzheimer's disease: degradation of spectrin in an animal model of cholinergic degeneration. Fernández–Shaw C, et al. **J Neuroimmunol** 1997 Jul;77(1):91–8

[123I]FP–CIT SPECT shows a pronounced decline of striatal dopamine transporter labelling in early and advanced Parkinson's disease. Booij J, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):133–40

Folate receptors as potential therapeutic targets in choroid plexus tumors of SV40 transgenic mice. Patrick TA, et al. **J Neurooncol** 1997 Apr;32(2):111–23

Na(+)–Ca2+ exchange in rat dorsal root ganglion neurons. Verdru P, et al. **J Neurophysiol** 1997 Jan;77(1):484–90

Molecular cloning and characterization of an L–epinephrine transporter from sympathetic ganglia of the bullfrog, Rana catesbiana. Apparsundaram S, et al. **J Neurosci** 1997 Apr 15;17(8):2691–702

Lipocalin–type prostaglandin D synthase (beta–trace) is located in pigment epithelial cells of rat retina and accumulates within interphotoreceptor matrix. Beuckmann CT, et al. **J Neurosci** 1996 Oct 1;16(19):6119–24

Anion conductance behavior of the glutamate uptake carrier in salamander retinal glial cells. Billups B, et al. **J Neurosci** 1996 Nov 1;16(21):6722–31

Endocytosis of activated TrkA: evidence that nerve growth factor induces formation of signaling endosomes. Grimes ML, et al. **J Neurosci** 1996 Dec 15;16(24):7950–64

Ion binding and permeation at the GABA transporter GAT1. Mager S, et al. **J Neurosci** 1996 Sep 1;16(17):5405–14

GAT–3, a high–affinity GABA plasma membrane transporter, is localized to astrocytic processes, and it is not confined to the vicinity of GABAergic synapses in the cerebral cortex. Minelli A, et al. **J Neurosci** 1996 Oct 1;16(19):6255–64

Characterization of guanylate kinase–associated protein, a postsynaptic density protein at excitatory synapses that interacts directly with postsynaptic density–95/synapse–associated protein 90. Naisbitt S, et al. **J Neurosci** 1997 Aug 1;17(15):5687–96

Immunogold localization of the dopamine transporter: an ultrastructural study of the rat ventral tegmental area. Nirenberg MJ, et al. **J Neurosci** 1997 Jul 15;17(14):5255–62

A hierarchy of Hu RNA binding proteins in developing and adult neurons. Okano HJ, et al. **J Neurosci** 1997 May 1; 17(9):3024–37

Pharmacology and distribution of norepinephrine transporters in the human locus coeruleus and raphe nuclei. Ordway GA, et al. **J Neurosci** 1997 Mar 1;17(5):1710–9

Protein kinase C activation regulates human serotonin transporters in HEK–293 cells via altered cell surface expression. Qian Y, et al. **J Neurosci** 1997 Jan 1;17(1):45–57

Second messengers, trafficking–related proteins, and amino acid residues that contribute to the functional regulation of the rat brain GABA transporter GAT1. Quick MW, et al. **J Neurosci** 1997 May 1;17(9):2967–79

Cellular and regional distribution of the glutamate transporter GLAST in the CNS of rats: nonradioactive in situ hybridization and comparative immunocytochemistry. Schmitt A, et al. **J Neurosci** 1997 Jan 1;17(1):1–10

Control of NMDA receptor activation by a glycine transporter co–expressed in Xenopus oocytes. Supplisson S, et al. **J Neurosci** 1997 Jun 15;17(12):4580–90

Potential misconceptions in dopamine transporter assays arising from the binding of [125I]RTI–121 to filters: effect of ions and cocaine. Chen NH, et al. **J Neurosci Methods** 1997 Aug 22;75(2):179–86

Variants of the receptor/channel clustering molecule gephyrin in brain: distinct distribution patterns, developmental profiles, and proteolytic cleavage by calpain. Kawasaki BT, et al. **J Neurosci Res** 1997 Aug 1; 49(3):381–8

SPECT imaging of dopamine transporters in human brain with iodine–123–fluoroalkyl analogs of beta–CIT. Abi–Dargham A, et al. **J Nucl Med** 1996 Jul;37(7):1129–33

Imaging of dopamine transporters with iodine–123–beta–CIT and SPECT in Parkinson's disease. Asenbaum S, et al. **J Nucl Med** 1997 Jan;38(1):1–6

Preparation and biological evaluation of iodine–125–IACFT: a selective SPECT agent for imaging dopamine transporter sites. Elmaleh DR, et al. **J Nucl Med** 1996 Jul; 37(7):1197–202

Visualization of ischemic insult in caudate putamen with beta–CIT. Fujita M, et al. **J Nucl Med** 1996 Jul; 37(7):1214–8

Fluorine–18–FPCT: a PET radiotracer for imaging dopamine transporters. Goodman MM, et al. **J Nucl Med** 1997 Jan; 38(1):119–26

Comparative nigrostriatal dopaminergic imaging with iodine–123–beta CIT–FP/SPECT and fluorine–18–FDOPA/PET. Ishikawa T, et al. **J Nucl Med** 1996 Nov;37(11):1760–5

Iodine–123–5–iodo–6–nitroquipazine: SPECT radiotracer to image the serotonin transporter. Jagust WJ, et al. **J Nucl Med** 1996 Jul;37(7):1207–14

Alterations of myocardial sympathetic innervation in response to hypoxia. Scherrer–Crosbie M, et al. **J Nucl Med** 1997 Jun;38(6):954–7

Beef tallow diet decreases uncoupling protein content in the brown adipose tissue of rats. Matsuo T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Dec;42(6):595–601

Comparison of nucleoside transport binding sites in rabbit iris–ciliary body and cultured rabbit nonpigmented ciliary epithelial cells. Williams EF, et al. **J Ocul Pharmacol Ther** 1996 Winter;12(4):461–9

Investigation of carcinoma in situ cells of testis by quantification of argyrophilic nucleolar organizer region associated proteins (AgNORs). Meng FJ, et al. **J Pathol** 1996 Oct;180(2):206–13

Growth hormone receptor/binding protein––clinical implications. Postel–Vinay MC. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:279–83 (38 ref.)

Phosphate excretion and phosphate transporter messenger RNA in uremic rats treated with phosphonoformic acid. Brooks DP, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1440–5

Quantitative evaluation of brain distribution and blood–brain

barrier efflux transport of probenecid in rats by microdialysis: possible involvement of the monocarboxylic acid transport system. Deguchi Y, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):551–60

N–(3–Iodoprop–2E–enyl)–2beta–carbomethoxy–3beta–(3',4'–dichloro phenyl)nortropane (beta–CDIT), a tropane derivative: pharmacological characterization as a specific ligand for the dopamine transporter in the rodent brain. Garreau L, et al. **J Pharmacol Exp Ther** 1997 Jul; 282(1):467–74

Evidence that the organic cation/H+ exchanger in the brush border membrane of dog kidney is a 41–kDa protein. Gilsdorf JS, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):1043–50

Temocaprilat, a novel angiotensin–converting enzyme inhibitor, is excreted in bile via an ATP–dependent active transporter (cMOAT) that is deficient in Eisai hyperbilirubinemic mutant rats (EHBR). Ishizuka H, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1304–11

Uptake of the mycotoxin ochratoxin A in liver cells occurs via the cloned organic anion transporting polypeptide. Kontaxi M, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1507–13

Soluble cytokine receptors as carrier proteins: effects of soluble interleukin–4 receptors on the pharmacokinetics of murine interleukin–4. Ma Y, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):340–50

Platelet 5–hydroxytryptamine (5–HT) transporter and 5–HT2A receptor binding after chronic hypercorticosteronemia, (+/–)–1–(2,5–dimethoxy–4–iodophenyl)–2–aminopropane administration or neurotoxin–induced depletion of central nervous system 5–HT in the rat. Owens MJ, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1040–9

Nitrous oxide enhances Na+/Ca++ exchange in the neuroblastoma cell line SK–N–SH. Resendes MC, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):795–801

WIN 35,428 and mazindol are mutually exclusive in binding to the cloned human dopamine transporter. Xu C, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):920–7

Activation of protein kinase C inhibits uptake, currents and binding associated with the human dopamine transporter expressed in Xenopus oocytes. Zhu SJ, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1358–65

Evidence against a contribution by Na(+)–Cl– cotransport to chloride accumulation in rat arterial smooth muscle. Davis JP. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):61–8

Upregulation of Na(+)–K(+)–2Cl– cotransporter activity in rat parotid acinar cells by muscarinic stimulation. Evans RL, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):351–9

The role of inward Na(+)–Ca2+ exchange current in the ferret ventricular action potential. Janvier NC, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):611–25

Component characteristics of the vectorial transport system for taurine in isolated bovine retinal pigment epithelium. Kundaiker S, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):505–16

The immunophilin FK506–binding protein modulates Ca2+ release channel closure in rat heart. Xiao RP, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):343–54

Interaction of L–cysteine with a human excitatory amino acid transporter. Zerangue N, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):419–23

Demonstration of clomipramine and venlafaxine occupation at serotonin reuptake sites in man in vivo. Malizia AL, et al. **J Psychopharmacol (Oxf)** 1997;11(3):279–81

Sperm–associated protein candidates for primary zona pellucida–binding molecules: structure–function correlations of boar spermadhesins. Töpfer–Petersen E, et al. **J Reprod Fertil Suppl** 1996;50:55–61 (44 ref.)

Functional dissection of the Moloney murine leukemia virus envelope protein gp70. Bae Y, et al. **J Virol** 1997 Mar; 71(3):2092–9

The hydrophobic pocket of cyclophilin is the binding site for the human immunodeficiency virus type 1 Gag polyprotein. Braaten D, et al. **J Virol** 1997 Mar; 71(3):2107–13

Active–site residues of cyclophilin A are crucial for its incorporation into human immunodeficiency virus type 1 virions. Dorfman T, et al. **J Virol** 1997 Sep;71(9):7110–3

Cytomegalovirus "missing" capsid protein identified as heat–aggregable product of human cytomegalovirus UL46. Gibson W, et al. **J Virol** 1996 Nov;70(11):7454–61

Human T–cell leukemia virus type 1 Tax releases cell cycle arrest induced by p16INK4a. Low KG, et al. **J Virol** 1997 Mar;71(3):1956–62

Adeno–associated virus type 2–mediated transfer of ecotropic retrovirus receptor cDNA allows ecotropic retroviral transduction of established and primary human cells. Qing K, et al. **J Virol** 1997 Jul;71(7):5663–7

Modulation of ecotropic murine retroviruses by N–linked glycosylation of the cell surface receptor/amino acid transporter. Wang H, et al. **J Virol** 1996 Oct;70(10):6884–91

The NPI–1/NPI–3 (karyopherin alpha) binding site on the influenza a virus nucleoprotein NP is a nonconventional nuclear localization signal. Wang P, et al. **J Virol** 1997 Mar;71(3):1850–6

Cellular and molecular aspects of monoamine neurotransmitter transporters. Kitayama S, et al. **Jpn J Pharmacol** 1996 Nov;72(3):195–208 (126 ref.)

Na(+)–Ca2+ exchanger: physiology and pharmacology. Matsuda T, et al. **Jpn J Pharmacol** 1997 May;74(1):1–20 (277 ref.)

Inhibitory effect of EGTA on serotonin transport into rabbit blood platelets: possible involvement of the glycoprotein IIb/IIIa complex. Nishio H, et al. **Jpn J Pharmacol** 1996 Nov;72(3):255–9

Substrate binding sites of glutamate transporters and structurally related neutral amino acid transporters. Kanai Y. **Jpn J Physiol** 1997;47 Suppl 1:S55–6

Characterization of organic ion transporters involved in renal excretion of xenobiotics. Okuda M, et al. **Jpn J Physiol** 1997;47 Suppl 1:S58–9

Contribution of Na+/Ca2+ exchanger in maintaining [Ca2+]c at a stable state in rat pancreatic islets. Yoshihashi K, et al. **Jpn J Physiol** 1996 Dec;46(6):473–80

Molecular mechanisms in the regulation of renal proximal tubular Na/phosphate cotransport. Murer H, et al. **Kidney Blood Press Res** 1996;19(3–4):151–4 (27 ref.)

Structure, regulation and physiological roles of urea transporters. Hediger MA, et al. **Kidney Int** 1996 Jun; 49(6):1615–23 (48 ref.)

Apical localization of the Na–K–Cl cotransporter, rBSC1, on rat thick ascending limbs. Kaplan MR, et al. **Kidney Int** 1996 Jan;49(1):40–7

Regulation of the renal Na–HCO3 cotransporter: VII. Mechanism of the cholinergic stimulation. Ruiz OS, et al. **Kidney Int** 1997 Apr;51(4):1069–77

Effects of partial nephrectomy on the expression of osmolyte transporters. Yamauchi A, et al. **Kidney Int** 1997 Jun; 51(6):1847–54

Potential role for concurrent abnormalities of the cyclin D1, p16CDKN2 and p15CDKN2B genes in certain B cell non–Hodgkin's lymphomas. Functional studies in a cell line (Granta 519). Jadayel DM, et al. **Leukemia** 1997 Jan; 11(1):64–72

Regulation and function of the cyclin–dependent kinase inhibitor p16CDKN2. Peters G, et al. **Leukemia** 1997 Apr; 11 Suppl 3:352–5

Expression and regulation of G1 cell–cycle inhibitors (p16INK4A, p15INK4B, p18INK4C, p19INK4D) in human acute myeloid leukemia and normal myeloid cells. Schwaller J, et al. **Leukemia** 1997 Jan;11(1):54–63

HTLV–1 Tax protein interacts with cyclin–dependent kinase inhibitor p16Ink4a and counteracts its inhibitory activity to CDK4. Suzuki T, et al. **Leukemia** 1997 Apr;11 Suppl 3:14–6

Beneficial effects of kallikrein–binding protein in transgenic mice during endotoxic shock. Chen LM, et al. **Life Sci** 1997;60(17):1431–5

Cocaine abusers do not show loss of dopamine transporters with age. Wang GJ, et al. **Life Sci** 1997;61(11):1059–65

Acyl–CoA binding proteins: multiplicity and function [published erratum appears in Lipids 1996 Nov;31(11):1209] Gossett RE, et al. **Lipids** 1996 Sep;31(9):895–918 (229 ref.)

Expression of fatty acyl–CoA binding proteins in colon cells: response to butyrate and transformation. Gossett RE, et al. **Lipids** 1997 Jun;32(6):577–85

Characterization of the interactions of type XII collagen with two small proteoglycans from fetal bovine tendon, decorin and fibromodulin. Font B, et al. **Matrix Biol** 1996 Nov; 15(5):341–8

The novel compound NO–1886 elevates plasma high–density lipoprotein cholesterol levels in hamsters and rabbits by increasing lipoprotein lipase without any effect on cholesteryl ester transfer protein activity. Tsutsumi K, et al. **Metabolism** 1997 Mar;46(3):257–60

Lipoate addition to acyltransferases of alpha–keto acid dehydrogenase complexes and H–protein of glycine cleavage system. Fujiwara K, et al. **Methods Enzymol** 1997; 279:184–93 (23 ref.)

Quantification of cholesteryl ester transfer protein: activity and immunochemical assay. Glenn KC, et al. **Methods Enzymol** 1996;263:339–51

Penicillin–binding proteins as resistance determinants in clinical isolates of Streptococcus pneumoniae. Reichmann P, et al. **Microb Drug Resist** 1996 Summer;2(2):177–81

The lectin pathway of the complement system. Matsushita M. **Microbiol Immunol** 1996;40(12):887–93 (67 ref.)

IdiA, a 34 kDa protein in the cyanobacteria Synechococcus sp. strains PCC 6301 and PCC 7942, is required for growth under iron and manganese limitations. Michel KP, et al. **Microbiology** 1996 Sep;142 (Pt 9):2635–45

Aspartate transport by the Dct system in Rhizobium leguminosarum negatively affects nitrogen–regulated operons. Reid CJ, et al. **Microbiology** 1996 Sep;142 (Pt 9):2603–12

The role of follicular and interdigitating dendritic cells in HIV–related lymphoid hyperplasia: localization of fascin. Said JW, et al. **Mod Pathol** 1997 May;10(5):421–7

Erythrocyte binding protein homologues of rodent malaria parasites. Kappe SH, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):137–48

Domains of alpha–SNAP required for the stimulation of exocytosis and for N–ethylmalemide–sensitive fusion protein (NSF) binding and activation. Barnard RJ, et al. **Mol Biol Cell** 1996 May;7(5):693–701

Re–expression of ABP–120 rescues cytoskeletal, motility, and phagocytosis defects of ABP–120– Dictyostelium mutants. Cox D, et al. **Mol Biol Cell** 1996 May;7(5):803–23

Endocytic trafficking of megalin/RAP complexes: dissociation of the complexes in late endosomes. Czekay RP, et al. **Mol Biol Cell** 1997 Mar;8(3):517–32

Induction of p18INK4c and its predominant association with CDK4 and CDK6 during myogenic differentiation. Franklin DS, et al. **Mol Biol Cell** 1996 Oct;7(10):1587–99

NG2 proteoglycan and the actin–binding protein fascin define separate populations of actin–containing filopodia and lamellipodia during cell spreading and migration. Lin XH, et al. **Mol Biol Cell** 1996 Dec;7(12):1977–93

Bet1p activates the v–SNARE Bos1p. Stone S, et al. **Mol Biol Cell** 1997 Jul;8(7):1175–81

Pep7p provides a novel protein that functions in vesicle–mediated transport between the yeast Golgi and endosome. Webb GC, et al. **Mol Biol Cell** 1997 May; 8(5):871–95

ATPase and ubiquitin–binding proteins of the yeast proteasome. Rubin DM, et al. **Mol Biol Rep** 1997 Mar; 24(1–2):17–26

Evidence that up–regulation of the parotid Na(+)–K(+)–2Cl– cotransporter by hypertonic shrinkage is not duplicated by isotonic shrinkage. Ferri C, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):21–5

Cooperative interaction between Ca2+ binding sites in the hydrophilic loop of the Na(+)–Ca2+ exchanger. Levitsky DO, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:27–32

Molecular structure influence in the recognition of phthaleins by the electrogenic organic anion carrier at the sinusoidal plasma membrane level in the liver. Torres AM. **Mol Cell Biochem** 1997 Apr;169(1–2):185–9

Fasting increases plasma membrane fatty acid–binding protein (FABP(PM)) in red skeletal muscle. Turcotte LP, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):153–8

FKBP12 physically and functionally interacts with aspartokinase in Saccharomyces cerevisiae. Alarcón CM, et al. **Mol Cell Biol** 1997 Oct;17(10):5968–75

Saccharomyces cerevisiae Mpt5p interacts with Sst2p and plays roles in pheromone sensitivity and recovery from pheromone arrest. Chen T, et al. **Mol Cell Biol** 1997 Jun; 17(6):3429–39

Characterization of Cdc47p–minichromosome maintenance complexes in Saccharomyces cerevisiae: identification of Cdc45p as a subunit. Dalton S, et al. **Mol Cell Biol** 1997 Oct;17(10):5867–75

Suppression of oxidative damage by Saccharomyces cerevisiae ATX2, which encodes a manganese–trafficking protein that localizes to Golgi–like vesicles. Lin SJ, et al. **Mol Cell Biol** 1996 Nov;16(11):6303–12

A family of ammonium transporters in Saccharomyces cerevisiae. Marini AM, et al. **Mol Cell Biol** 1997 Aug; 17(8):4282–93

Evidence that GCN1 and GCN20, translational regulators of GCN4, function on elongating ribosomes in activation of eIF2alpha kinase GCN2. Marton MJ, et al. **Mol Cell Biol** 1997 Aug;17(8):4474–89

Molecular cloning of human FKBP51 and comparisons of immunophilin interactions with Hsp90 and progesterone receptor. Nair SC, et al. **Mol Cell Biol** 1997 Feb; 17(2):594–603

Mutational analysis of the hsp70–interacting protein Hip. Prapapanich V, et al. **Mol Cell Biol** 1996 Nov;16(11):6200–7

Transforming growth factor beta stabilizes p15INK4B protein, increases p15INK4B–cdk4 complexes, and inhibits cyclin D1–cdk4 association in human mammary epithelial cells. Sandhu C, et al. **Mol Cell Biol** 1997 May; 17(5):2458–67

The multiubiquitin–chain–binding protein Mcb1 is a component of the 26S proteasome in Saccharomyces cerevisiae and plays a nonessential, substrate–specific role in protein turnover. van Nocker S, et al. **Mol Cell Biol** 1996 Nov;16(11):6020–8

The insulin–induced signalling pathway leading to S6 and initiation factor 4E binding protein 1 phosphorylation bifurcates at a rapamycin–sensitive point immediately upstream of p70s6k. von Manteuffel SR, et al. **Mol Cell Biol** 1997 Sep;17(9):5426–36

The Saccharomyces cerevisiae DNA polymerase alpha catalytic subunit interacts with Cdc68/Spt16 and with Pob3, a protein similar to an HMG1–like protein. Wittmeyer J, et al. **Mol Cell Biol** 1997 Jul;17(7):4178–90

Interaction between the small GTPase Ran/Gsp1p and Ntf2p is required for nuclear transport. Wong DH, et al. **Mol Cell Biol** 1997 Jul;17(7):3755–67

Yeast mitochondria lacking the phosphate carrier/p32 are blocked in phosphate transport but can import preproteins after regeneration of a membrane potential. Zara V, et al. **Mol Cell Biol** 1996 Nov;16(11):6524–31

Characterization of prolactin– and growth hormone–binding proteins in milk and their diversity among species. Amit T, et al. **Mol Cell Endocrinol** 1997 Jun 20;130(1–2):167–80

Interleukin–4 and interleukin–13 inhibit estrogen–induced breast cancer cell proliferation and stimulate GCDFP–15 expression in human breast cancer cells. Blais Y, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):11–8

Oct–1, silencer sequence, and GC box regulate thyroid hormone receptor beta1 promoter. Nagasawa T, et al. **Mol Cell Endocrinol** 1997 Jun 20;130(1–2):153–65

Hormonal modulation of riboflavin carrier protein secretion by immature rat Sertoli cells in culture. Subramanian S, et al. **Mol Cell Endocrinol** 1996 Jun 18;120(1):41–50

Excitotoxic brain lesion modifies binding to a USF binding site acting as a negative regulatory element in the Protease nexin–1 promoter. Ernø H, et al. **Mol Cell Neurosci** 1996; 8(1):28–37

Agrin is synthesized by retinal cells and colocalizes with gephyrin [corrected] [published erratum appears in Mol

Cell Neurosci 1996;8(4):301] Mann S, et al. **Mol Cell Neurosci** 1996;8(1):1–13

In vivo regulation of central nervous system progesterone receptors: cocaine induces steroid-dependent behavior through dopamine transporter modulation of D5 receptors in rats. Apostolakis EM, et al. **Mol Endocrinol** 1996 Dec; 10(12):1595–604

Role of Bag-1 in the survival and proliferation of the cytokine-dependent lymphocyte lines, Ba/F3 and Nb2. Clevenger CV, et al. **Mol Endocrinol** 1997 May; 11(5):608–18

The leptin receptor activates janus kinase 2 and signals for proliferation in a factor-dependent cell line. Ghilardi N, et al. **Mol Endocrinol** 1997 Apr;11(4):393–9

High-mobility group (HMG) protein HMG-1 and TATA-binding protein-associated factor TAF(II)30 affect estrogen receptor-mediated transcriptional activation. Verrier CS, et al. **Mol Endocrinol** 1997 Jul;11(8):1009–19

Rig2, a RING finger protein that interacts with the Kin28/Ccl1 CTD kinase in yeast. Faye G, et al. **Mol Gen Genet** 1997 Aug;255(5):460–6

Identification of the Fy6 epitope recognized by two monoclonal antibodies in the N-terminal extracellular portion of the Duffy antigen receptor for chemokines. Waśniowska K, et al. **Mol Immunol** 1996 Aug; 33(11–12):917–23

The effect of N-terminal fragments of immunophilin on phospholipid composition of rat brain. Karaguezyan KG, et al. **Mol Membr Biol** 1996 Jan-Mar;13(1):49–51

Heparin binding protein-44 (HBP-44)/receptor-associated protein (RAP)mediates cell-substratum adhesion of mouse NIH/3T3 cells through its binding to low density lipoprotein (LDL) receptor-related protein (LRP). Terada H, et al. **Mol Membr Biol** 1997 Apr-Jun;14(2):81–6

Genetically probing the regions of ribose-binding protein involved in permease interaction. Eym Y, et al. **Mol Microbiol** 1996 Aug;21(4):695–702

Role of nodl and nodJ in lipo-chitooligosaccharide secretion in Azorhizobium caulinodans and Escherichia coli. Fernández-López M, et al. **Mol Microbiol** 1996 Jun; 20(5):993–1000

FIS is a regulator of metabolism in Escherichia coli. González-Gil G, et al. **Mol Microbiol** 1996 Oct;22(1):21–9

The ndh-binding protein (Nbp) regulates the ndh gene of Escherichia coli in response to growth phase and is identical to Fis. Green J, et al. **Mol Microbiol** 1996 Jun; 20(5):1043–55

A TonB-like protein and a novel membrane protein containing an ATP-binding cassette function together in exotoxin secretion. Howard SP, et al. **Mol Microbiol** 1996 Nov;22(4):595–604

Protein F2, a novel fibronectin-binding protein from Streptococcus pyogenes, possesses two binding domains. Jaffe J, et al. **Mol Microbiol** 1996 Jul;21(2):373–84

Transcription induction of the ferric citrate transport genes via the N-terminus of the FecA outer membrane protein, the Ton system and the electrochemical potential of the cytoplasmic membrane. Kim I, et al. **Mol Microbiol** 1997 Jan;23(2):333–44

Identification and cellular localization of the actin-binding protein ABP-120 from Entamoeba histolytica. Vargas M, et al. **Mol Microbiol** 1996 Dec;22(5):849–57

A new type of transporter with a new type of cellular function: L-lysine export from Corynebacterium glutamicum. Vrljic M, et al. **Mol Microbiol** 1996 Dec; 22(5):815–26

A putative helical domain in the MalK subunit of the ATP-binding-cassette transport system for maltose of Salmonella typhimurium (MalFGK2) is crucial for interaction with MalF and MalG. A study using the LacK protein of Agrobacterium radiobacter as a tool. Wilken S, et al. **Mol Microbiol** 1996 Nov;22(4):655–66

Identification of a single amino acid, phenylalanine 586, that is responsible for high affinity interactions of tricyclic antidepressants with the human serotonin transporter. Barker EL, et al. **Mol Pharmacol** 1996 Oct;50(4):957–65

Noncoplanar PCB 95 alters microsomal calcium transport by an immunophilin FKBP12-dependent mechanism. Wong PW, et al. **Mol Pharmacol** 1997 May;51(5):693–702

Transport of adenosine by recombinant purine- and pyrimidine-selective sodium/nucleoside cotransporters from rat jejunum expressed in Xenopus laevis oocytes. Yao SY, et al. **Mol Pharmacol** 1996 Dec;50(6):1529–35

Abnormal expression of serotonin transporter mRNA in the frontal and temporal cortex of schizophrenics. Hernandez I, et al. **Mol Psychiatry** 1997 Jan;2(1):57–64

Sperm protein (sp50) binds to acrosome and plasma membranes in a Ca(2+)-dependent manner: possible role in acrosome reaction. Othón Hernández E, et al. **Mol Reprod Dev** 1996 Mar;43(3):366–75

Characterization of pNiXa, a serpin of Xenopus laevis oocytes and embryos, and its histidine-rich, Ni(II)-binding domain. Sunderman FW Jr, et al. **Mol Reprod Dev** 1996 Aug;44(4):507–24

Obesity research springs a proton leak [news; comment] Flier JS, et al. **Nat Genet** 1997 Mar;15(3):223–4 (17 ref.). Comment on: Nat Genet 1997 Mar;15(3):269–72.

Identification of a RING protein that can interact in vivo with the BRCA1 gene product. Wu LC, et al. **Nat Genet** 1996 Dec;14(4):430–40

Cloning of a human nucleoside transporter implicated in the cellular uptake of adenosine and chemotherapeutic drugs [see comments] Griffiths M, et al. **Nat Med** 1997 Jan; 3(1):89–93. Comment in: Nat Med 1997 Jan;3(1):25–6.

Gotta find GATA a friend [news] Krause DS, et al. **Nat Med** 1997 Sep;3(9):960–1

Seeking the nucleoside transporter [news; comment] Wiley JS. **Nat Med** 1997 Jan;3(1):25–6. Comment on: Nat Med 1997 Jan;3(1):89–93.

Structure of coagulation factors IX/X-binding protein, a heterodimer of C-type lectin domains [letter] Mizuno H, et al. **Nat Struct Biol** 1997 Jun;4(6):438–41

A low energy short hydrogen bond in very high resolution structures of protein receptor--phosphate complexes [letter] Wang Z, et al. **Nat Struct Biol** 1997 Jul;4(7):519–22

Homer: a protein that selectively binds metabotropic glutamate receptors [see comments] Brakeman PR, et al. **Nature** 1997 Mar 20;386(6622):284–8. Comment in: Nature 1997 Mar 20;386(6622):221, 223.

TRAF6 is a signal transducer for interleukin-1. Cao Z, et al. **Nature** 1996 Oct 3;383(6599):443–6

A transcriptional partner for MAD proteins in TGF-beta signalling [published erratum appears in Nature 1996 Dec 19-26;384(6610):648] Chen X, et al. **Nature** 1996 Oct 24; 383(6602):691–6

Tom5 functionally links mitochondrial preprotein receptors to the general import pore [see comments] Dietmeier K, et al. **Nature** 1997 Jul 10;388(6638):195–200. Comment in: Nature 1997 Jul 10;388(6638):121–2.

Transportin nuclear proteins [news] Dingwall C. **Nature** 1996 Nov 21;384(6606):210–1

GRIP: a synaptic PDZ domain-containing protein that interacts with AMPA receptors [see comments] Dong H, et al. **Nature** 1997 Mar 20;386(6622):279–84. Comment in: Nature 1997 Mar 20;386(6622):221, 223.

Cyclophilin-related protein RanBP2 acts as chaperone for red/green opsin. Ferreira PA, et al. **Nature** 1996 Oct 17; 383(6601):637–40

Cloning and characterization of a mammalian proton-coupled metal-ion transporter. Gunshin H, et al. **Nature** 1997 Jul 31;388(6641):482–8

Repression of the CDK activator Cdc25A and cell-cycle arrest by cytokine TGF-beta in cells lacking the CDK inhibitor p15. Iavarone A, et al. **Nature** 1997 May 22; 387(6631):417–22

Essential role for diacylglycerol in protein transport from the yeast Golgi complex [see comments] Kearns BG, et al. **Nature** 1997 May 1;387(6628):101–5. Comment in: Nature 1997 May 1;387(6628):21–2.

Protein transport. Greasing the Golgi budding machine [news; comment] Martin TF. **Nature** 1997 May 1; 387(6628):21–2. Comment on: Nature 1997 May 1;387(6628):101–5.

Just follow the acid chain [news; comment] Schatz G. **Nature** 1997 Jul 10;388(6638):121–2. Comment on: Nature 1997 Jul 10;388(6638):195–200.

Excitatory synapses. Glutamate receptors put in their place [news; comment] Sheng M. **Nature** 1997 Mar 20; 386(6622):221, 223. Comment on: Nature 1997 Mar 20;386(6622):279–74. Comment on: Nature 1997 Mar 20;386(6622):284–8.

Import of carrier proteins into the mitochondrial inner membrane mediated by Tim22. Sirrenberg C, et al. **Nature** 1996 Dec 12;384(6609):582–5

A second serine protease associated with mannan-binding lectin that activates complement. Thiel S, et al. **Nature** 1997 Apr 3;386(6624):506–10

Translocation arrest of an intramitochondrial sorting signal next to Tim11 at the inner-membrane import site. Tokatlidis K, et al. **Nature** 1996 Dec 12;384(6609):585–8

Relationship between subjective effects of cocaine and dopamine transporter occupancy. Volkow ND, et al. **Nature** 1997 Apr 24;386(6627):827–30

Transport of small organic cations in the rat liver. The role of the organic cation transporter OCT1. Martel F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug-Sep; 354(3):320–6

Conclusive evidence for distinct transporters for 5-hydroxytryptamine and noradrenaline in pulmonary endothelial cells of the rat. Paczkowski NJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):423–30

Translocation of dopamine and binding of WIN 35,428 measured under identical conditions in cells expressing the cloned human dopamine transporter. Reith ME, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug-Sep; 354(3):295–304

Binding domains for blockers and substrates on the dopamine transporter in rat striatal membranes studied by protection against N-ethylmaleimide-induced reduction of [3H]WIN 35,428 binding. Xu C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):64–73

A view of type I and II Na+/P(i) transporters through microelectrodes [editorial] Busch AE. **Nephrol Dial Transplant** 1997 Apr;12(4):638–40 (11 ref.)

The Na-(K)-Cl cotransporter family in the mammalian kidney: molecular identification and function(s). Delpire E, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):1967–73 (34 ref.)

The molecules of proximal tubular transport: insights from electrophysiology [editorial] Busch AE, et al. **Nephron** 1996;72(1):1–8

Characteristics of nitric oxide-evoked [3H]taurine release from cerebral cortical neurons. Chen DZ, et al. **Neurochem Int** 1996 May-Jun;28(5–6):601–7

Sodium/calcium exchanger in rat olfactory neurons. Noé J, et al. **Neurochem Int** 1997 Jun;30(6):523–31

The serotonin transporter from human brain: purification and partial characterization. Rotondo A, et al. **Neurochem Int** 1996 Mar;28(3):299–307

Na(+)-K(+)-Cl- cotransport system in brain capillary endothelial cells: response to endothelin and hypoxia. Kawai N, et al. **Neurochem Res** 1996 Oct;21(10):1259–66

Expression and localization of the leptin receptor in endocrine and neuroendocrine tissues of the rat. Zamorano PL, et al. **Neuroendocrinology** 1997 Mar;65(3):223–8

Modification of the characteristics of dopamine transporter in brain regions and spinal cord of morphine tolerant and abstinent rats. Gudehithlu KP, et al. **Neuropharmacology** 1996 Feb;35(2):169–74

Electroconvulsive shock increases the phosphorylation of cyclic AMP response element binding protein at Ser-133 in rat hippocampus but not in cerebellum. Jeon SH, et al. **Neuropharmacology** 1997 Mar;36(3):411–4

Benzodiazepine binding inhibitory activity: new supportive findings on its presence in psychiatric patients and further biochemical analyses. Marazziti D, et al. **Neuropsychobiology** 1996;34(1):9–13

Expression of serotonin transporter mRNA in human brainstem raphe nuclei. McLaughlin DP, et al. **Neuropsychopharmacology** 1996 Nov;15(5):523–9

Chronic fluoxetine reduces serotonin transporter mRNA and 5-HT1B mRNA in a sequential manner in the rat dorsal raphe nucleus. Neumaier JF, et al. **Neuropsychopharmacology** 1996 Nov;15(5):515–22

Localization of leptin receptor mRNA expression in mouse brain. Huang XF, et al. **Neuroreport** 1996 Nov 4; 7(15–17):2635–8

Activity-induced enhancement of HB-GAM expression in rat hippocampal slices. Lauri SE, et al. **Neuroreport** 1996 Jul 8;7(10):1670–4

GLAST mRNA expression in the periventricular area of experimental hydrocephalus. Masago A, et al. **Neuroreport** 1996 Nov 4;7(15–17):2565–70

Altered dopamine transporter densities in alcohol-preferring vervet monkeys. Mash DC, et al. **Neuroreport** 1996 Jan 31;7(2):457–62

Neuronal and glial localization of the GABA transporter GAT-1 in the cerebellar cortex. Morara S, et al. **Neuroreport** 1996 Nov 25;7(18):2993–6

[3H]L-arginine transport and nitric oxide synthase activity in foetal hypothalamic cultures. Wayte J, et al. **Neuroreport** 1996 Dec 20;8(1):267–71

HB-GAM is a cytokine present in Alzheimer's and Down's syndrome lesions. Wisniewski T, et al. **Neuroreport** 1996 Jan 31;7(2):667–71

Developmentally regulated stabilization of neuronal intermediate filaments in rat cerebral cortex. Giasson BI, et al. **Neurosci Lett** 1997 Jun 27;229(2):77–80

Uptake and release of dopamine through the rat dopamine transporter expressed in Xenopus laevis oocyte: evaluation by voltammetric measurement of intracellular dopamine concentration. Kitayama S, et al. **Neurosci Lett** 1996 Jun 21;211(2):132–4

Species differences in functions of dopamine transporter: paucity of MPP+ uptake and cocaine binding in bovine dopamine transporter. Lee SH, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):199–201

Dopamine transporter binding in rat striatum and nucleus accumbens is unaltered following chronic changes in dopamine levels. Moody CA, et al. **Neurosci Lett** 1996 Oct 11;217(1):55–7

Dissociation of HSP72 and HSC73 heat shock mRNA inductions after spinal cord ischemia in rabbit. Sakurai M, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):113–6

trkA and trkC expression is increased in human diabetic skin. Terenghi G, et al. **Neurosci Lett** 1997 May 30;228(1):33–6

Developmental age-dependent upregulation of choline acetyltransferase and vesicular acetylcholine transporter mRNA expression in neonatal rat septum by nerve growth factor. Tian X, et al. **Neurosci Lett** 1996 May 10; 209(2):134–6

The effects of phosphorylation on the functional regulation of an expressed recombinant human dopamine transporter. Vrindavanam NS, et al. **Neurosci Lett** 1996 Sep 27; 216(2):133–6

Differential expression of odorant-binding protein genes in rat nasal glands: implications for odorant-binding proteinII as a possible pheromone transporter. Ohno K, et al. **Neuroscience** 1996 Mar;71(2):355–66

Immunocytochemical detection of the serotonin transporter in rat brain. Sur C, et al. **Neuroscience** 1996 Jul;73(1):217–31

Regulation of acute and chronic opioid receptor functions by OBCAM, a cell adhesion-like molecule. Loh HH, et al. **NIDA Res Monogr** 1996;161:141–53 (24 ref.)

System A amino acid transport in cultured human tumor cells: implications for tumor imaging with PET. Bading JR, et al. **Nucl Med Biol** 1996 Aug;23(6):779–86

Evaluation of [11C]RTI-121 as a selective radioligand for PET studies of the dopamine transporter. Hume SP, et al. **Nucl Med Biol** 1996 Apr;23(3):377–84

Synthesis and in vivo studies of a selective ligand for the dopamine transporter: 3 beta-(4-[125I]iodophenyl) tropan-2 beta-carboxylic acid isopropyl ester ([125I]RTI-121). Lever JR, et al. **Nucl Med Biol** 1996 Apr;

23(3):277–84
76Br-MBBG, a PET radiotracer to investigate the norepinephrine neurological and vesicular transproters in the heart. Maziere B, et al. **Nucl Med Biol** 1995 Nov; 22(8):1049–52
In vivo evaluation of [11C]- and [18F]-labelled cocaine analogues as potential dopamine transporter ligands for positron emission tomography. Wilson AA, et al. **Nucl Med Biol** 1996 Feb;23(2):141–6
Radiosynthesis and PET imaging of [N-methyl-11C]LY257327 as a tracer for 5-HT transporters. Zea-Ponce Y, et al. **Nucl Med Biol** 1997 Apr; 24(3):251–4
The XPB subunit of repair/transcription factor TFIIH directly interacts with SUG1, a subunit of the 26S proteasome and putative transcription factor. Weeda G, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2274–83
The Escherichia coli Fis protein prevents initiation of DNA replication from oriC in vitro. Wold S, et al. **Nucleic Acids Res** 1996 Sep 15;24(18):3527–32
Midkine as a novel target gene for the Wilms' tumor suppressor gene (WT1). Adachi Y, et al. **Oncogene** 1996 Nov 21;13(10):2197–203
Point mutations can inactivate in vitro and in vivo activities of p16(INK4a)/CDKN2A in human glioma. Arap W, et al. **Oncogene** 1997 Feb 6;14(5):603–9
Identification of novel mdm2 binding peptides by phage display. Böttger V, et al. **Oncogene** 1996 Nov 21; 13(10):2141–7
Inhibition of E2F-4/DP-1-stimulated transcription by p202. Choubey D, et al. **Oncogene** 1997 Jul 17;15(3):291–301
Hypermethylation of the CpG island of p16/CDKN2 correlates with gene inactivation in glicmas. Fueyo J, et al. **Oncogene** 1996 Oct 17;13(8):1615–9
T-cell oncogene rhombotin-2 interacts with retinoblastoma-binding protein 2. Mao S, et al. **Oncogene** 1997 Apr 3;14(13):1531–9
Accumulation of p16INK4a in mouse fibroblasts as a function of replicative senescence and not of retinoblastoma gene status. Palmero I, et al. **Oncogene** 1997 Jul 31;15(5):495–503
PACT: cloning and characterization of a cellular p53 binding protein that interacts with Rb. Simons A, et al. **Oncogene** 1997 Jan 16;14(2):145–55
Novel substrate analogs delineate an endocytotic mechanism for uptake of folate via the high-affinity, glycosylphosphatidylinositol-linked transport protein in L1210 mouse leukemia cells. Fan J, et al. **Oncol Res** 1995; 7(10–11):511–6
Linkage of Gitelman syndrome to the thiazide-sensitive sodium-chloride cotransporter gene with identification of mutations in Dutch families. Lemmink HH, et al. **Pediatr Nephrol** 1996 Aug;10(4):403–7
Effect of fetal growth restriction on system A amino acid transporter activity in the maternal facing plasma membrane of rat syncytiotrophoblast. Glazier JD, et al. **Pediatr Res** 1996 Aug;40(2):325–9
Functional expression of rat renal cortex taurine transporter in Xenopus laevis oocytes: adaptive regulation by dietary manipulation. Han X, et al. **Pediatr Res** 1997 May; 41(5):624–31
Effect of glucocorticoids on neonatal rabbit renal cortical sodium–inorganic phosphate messenger RNA and protein abundance. Prabhu S, et al. **Pediatr Res** 1997 Jan;41(1):20–4
Renal expression of Na+-phosphate cotransporter mRNA and protein: effect of the Gy mutation and low phosphate diet. Beck L, et al. **Pflugers Arch** 1996 Apr;431(6):936–41
Polarized distribution of key membrane transport proteins in the rat submandibular gland. He X, et al. **Pflugers Arch** 1997 Jan;433(3):260–8
Renal type II Na/Pi-cotransporter is strongly impaired whereas the Na/sulphate-cotransporter and aquaporin 1 are unchanged in cadmium-treated rats. Herak-Kramberger CM, et al. **Pflugers Arch** 1996 Jun; 432(2):336–44
Partial recovery of in vivo function by improved incubation conditions of isolated renal proximal tubule. II. Change of Na-HCO3 cotransport stoichiometry and of response to acetazolamide. Müller-Berger S, et al. **Pflugers Arch** 1997 Aug;434(4):383–91
Thyroid hormone stimulation of Na/Pi-cotransport in opossum kidney cells. Sorribas V, et al. **Pflugers Arch** 1995 Dec;431(2):266–71
Whole-cell currents from the cloned canine cardiac Na+/Ca2+ exchanger NCX1 overexpressed in a fibroblast cell CCL39. Uehara A, et al. **Pflugers Arch** 1997 Jul; 434(3):335–8
Human dipeptide transporter, hPEPT1, stably transfected into Chinese hamster ovary cells. Covitz KM, et al. **Pharm Res** 1996 Nov;13(11):1631–4
Sequence alignments of the H(+)-dependent oligopeptide transporter family PTR: inferences on structure and function of the intestinal PET1 transporter. Graul RC, et al. **Pharm Res** 1997 Apr;14(4):388–400
Use of the intestinal bile acid transporter for the uptake of cholic acid conjugates with HIV-1 protease inhibitory activity. Kågedahl M, et al. **Pharm Res** 1997 Feb; 14(2):176–80
Transport of dopamine at the blood-brain barrier of the guinea pig: inhibition by psychotropic drugs and nicotine. Martel CL, et al. **Pharm Res** 1996 Feb;13(2):290–5
Evidence for diminished functional expression of intestinal transporters in Caco-2 cell monolayers at high passages. Yu H, et al. **Pharm Res** 1997 Jun;14(6):757–62
Binding of disopyramide, methadone, dipyridamole, chlorpromazine, lignocaine and progesterone to the two main genetic variants of human alpha 1-acid glycoprotein: evidence for drug-binding differences between the variants and for the presence of two separate drug-binding sites on alpha 1-acid glycoprotein. Hervé F, et al. **Pharmacogenetics** 1996 Oct;6(5):403–15
Monoamine transporters and the neurobehavioral teratology of cocaine. Meyer JS, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):585–93 (108 ref.)
Binding of pinoline on the 5-hydroxytryptamine transporter: competitive interaction with [3H] citalopram. Pähkla R, et al. **Pharmacol Toxicol** 1997 Mar;80(3):122–6
Chronic blockade of opioid receptors alters the binding of [3H]GBR 12935 to dopamine transporter in rat brain regions and spinal cord. Bhargava HN, et al. **Pharmacology** 1996 Apr;52(4):243–51
Lactate-proton cotransport in skeletal muscle. Juel C. **Physiol Rev** 1997 Apr;77(2):321–58 (344 ref.)
Human placental norepinephrine transporter mRNA: expression and correlation with fetal condition at birth. Bzoskie L, et al. **Placenta** 1997 Mar-Apr;18(2-3):205–10
Sulphydryl modification inhibits taurine transport in human placental brush border membranes. Dumaswala R, et al. **Placenta** 1996 Jul-Aug;17(5–6):329–36
Ontogeny of amino acid transport system A in rat placenta. Novak DA, et al. **Placenta** 1996 Nov;17(8):643–51
Aminophospholipid translocase activity in JEG-3; a choriocarcinoma model of cytotrophoblast differentiation. Obringer AR, et al. **Placenta** 1997 Jul-Aug;18(5–6):421–6
Characterization of a sodium-dependent vitamin transporter mediating the uptake of pantothenate, biotin and lipoate in human placental choriocarcinoma cells. Prasad PD, et al. **Placenta** 1997 Sep;18(7):527–33
Cloning of a cDNA encoding a plasma membrane-associated, uronide binding phosphoprotein with physical properties similar to viral movement proteins. Reymond P, et al. **Plant Cell** 1996 Dec;8(12):2265–76
Alkali cation selectivity of the wheat root high-affinity potassium transporter HKT1. Gassman W, et al. **Plant J** 1996 Nov;10(5):869–52
Identification of a high-affinity binding protein for N-acetylchitooligosaccharide elicitor in the plasma membrane of suspension-cultured rice cells by affinity labeling. Ito Y, et al. **Plant J** 1997 Aug;12(2):347–56
A novel plant peptidyl-prolyl-cis-trans-isomerase (PPIase): cDNA cloning, structural analysis, enzymatic activity and expression. Blecher O, et al. **Plant Mol Biol** 1996 Nov; 32(3):493–504
PCR-identification of a Nicotiana plumbaginifolia cDNA homologous to the high-affinity nitrate transporters of the crnA family. Quesada A, et al. **Plant Mol Biol** 1997 May; 34(2):265–74
Structure-function relationship of monocot mannose-binding lectins. Barre A, et al. **Plant Physiol** 1996 Dec; 112(4):1531–40
Identification of a chloroplast coenzyme A-binding protein related to the peroxisomal thiolases. Yang LM, et al. **Plant Physiol** 1996 Dec;112(4):1641–7
Involvement of the cyclin-dependent kinase inhibitor p16 (INK4a) in replicative senescence of normal human fibroblasts. Alcorta DA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13742–7
An essential role for p300/CBP in the cellular response to hypoxia. Arany Z, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12969–73
Selective packaging of cargo molecules into endoplasmic reticulum-derived COPII vesicles. Campbell JL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):837–42
RGS-r, a retinal specific RGS protein, binds an intermediate conformation of transducin and enhances recycling. Chen CK, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12885–9
The core domain of a new retina specific RGS protein stimulates the GTPase activity of transducin in vitro. Faurobert E, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2945–50
Anatomic localization of alternatively spliced leptin receptors (Ob-R) in mouse brain and other tissues. Fei H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7001–5
Interconversion of red opsin isoforms by the cyclophilin-related chaperone protein Ran-binding protein 2. Ferreira PA, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1556–61
Leptin expression and action: new experimental paradigms [comment] Flier JS. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4242–5. Comment on: Proc Natl Acad Sci U S A 1997 Apr 29;94(9):4300–5. Comment on: Proc Natl Acad Sci U S A 1997 Apr 29;94(9):4637–41.
Leptin can induce proliferation, differentiation, and functional activation of hemopoietic cells. Gainsford T, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14564–8
The highly conserved skb1 gene encodes a protein that interacts with Shk1, a fission yeast Ste20/PAK homolog. Gilbreth M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13802–7
Protein binding and signaling properties of RIN1 suggest a unique effector function. Han L, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4954–9
Peptidyl prolyl cis-trans isomerase activity of cyclophilin A in functional homo-oligomeric receptor expression. Helekar SA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5432–7
Phosphorylation of synaptic vesicle proteins: modulation of the alpha SNAP interaction with the core complex. Hirling H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11945–9
Cdc45p assembles into a complex with Cdc46p/Mcm5p, is required for minichromosome maintenance, and is essential for chromosomal DNA replication. Hopwood B, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12309–14
Diffusion control in an elementary protein folding reaction. Jacob M, et al. **Proc Natl Acad Sci U S A** 1997 May 27; 94(11):5622–7
Transport bicycles [comment] Karlin A. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5508–9 (23 ref.). Comment on: Proc Natl Acad Sci U S A 1997 May 27;94(11):5539–43.
Characterization of the thyroid Na+/I- symporter with an anti-COOH terminus antibody. Levy O, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5568–73
A three-hybrid system for detecting small ligand-protein receptor interactions. Licitra EJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12817–21
GTP-bound forms of rab6 induce the redistribution of Golgi proteins into the endoplasmic reticulum. Martinez O, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1828–33
The rational design of allosteric interactions in a monomeric protein and its applications to the construction of biosensors. Marvin JS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4366–71
Phosphate transporters from the higher plant Arabidopsis thaliana. Muchhal US, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10519–23
Identification and characterization of an alternative cytotoxic T lymphocyte-associated protein 4 binding molecule on B cells. Murakami M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7838–42
Double mutagenesis of a positive charge cluster in the ligand-binding site of the ferric enterobactin receptor, FepA. Newton SM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4560–5
Nucleotide-specific interaction of Ran/TC4 with nuclear transport factors NTF2 and p97. Paschal BM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7679–83
The von Hippel-Lindau tumor-suppressor gene product forms a stable complex with human CUL-2, a member of the Cdc53 family of proteins. Pause A, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2156–61
CD27, a member of the tumor necrosis factor receptor family, induces apoptosis and binds to Siva, a proapoptotic protein. Prasad KV, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6346–51
Interaction of protein kinase C zeta with ZIP, a novel protein kinase C-binding protein. Puls A, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6191–6
Characterization of VPS41, a gene required for vacuolar trafficking and high-affinity iron transport in yeast. Radisky DC, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5662–6
Binding of SecB to ribosome-bound polypeptides has the same characteristics as binding to full-length, denatured proteins. Randall LL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):802–7
The SH3p4/Sh3p8/SH3p13 protein family: binding partners for synaptojanin and dynamin via a Grb2-like Src homology 3 domain. Ringstad N, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8569–74
Catalysis of protein folding by symmetric chaperone complexes. Sparrer H, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1096–100
Neurotrophic immunophilin ligands stimulate structural and functional recovery in neurodegenerative animal models. Steiner JP, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2019–24
Dominant-negative cyclin-selective ubiquitin carrier protein E2-C/UbcH10 blocks cells in metaphase. Townsley FM, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2362–7
The structure and function of a soybean beta-glucan-elicitor-binding protein. Umemoto N, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1029–34
Relationship between psychostimulant-induced "high" and dopamine transporter occupancy. Volkow ND, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10388–92
Alteration of myosin cross bridges by phosphorylation of myosin-binding protein C in cardiac muscle. Weisberg A, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):8999–9003
The myosin-I-binding protein Acan125 binds the SH3 domain and belongs to the superfamily of leucine-rich repeat proteins. Xu P, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3685–90
Phylogenetic survey of soluble saxitoxin-binding activity in pursuit of the function and molecular evolution of saxiphilin, a relative of transferrin. Llewellyn LE, et al. **Proc R Soc Lond B Biol Sci** 1997 Jun 22;264(1383):891–902
Corticotropin-releasing factor (CRF) and endocrine responses to stress: CRF receptors, binding protein, and related peptides. Turnbull AV, et al. **Proc Soc Exp Biol Med** 1997 May;215(1):1–10 (114 ref.)
The distribution of corticotropin-releasing factor (CRF), CRF binding sites and CRF1 receptor mRNA in the mouse cerebellum. King JS, et al. **Prog Brain Res** 1997;114:55–66

Interactions of protons with the acetylcholine transporter of synaptic vesicles. Nguyen ML, et al. **Prog Brain Res** 1996; 109:97–103

Formation of 150-kDa binary complexes of insulin-like growth factor binding protein-3 and the acid-labile subunit in vitro and in vivo. Lee CY, et al.
Prog Growth Factor Res 1995;6(2–4):241–51 (12 ref.)

Cellular fatty acid-binding proteins: their function and physiological significance. Glatz JF, et al.
Prog Lipid Res 1996 Sep;35(3):243–82 (450 ref.)

The mitochondrial uncoupling protein: structural and genetic studies. Ricquier D, et al.
Prog Nucleic Acid Res Mol Biol 1997;56:83–108 (81 ref.)

Modelling intracellular fatty acid transport: possible mechanistic role of cytoplasmic fatty acid-binding protein. Vork MM, et al.
Prostaglandins Leukot Essent Fatty Acids 1997 Jul; 57(1):11–6

Clinical study on estramustine binding protein (EMBP) in human prostate. Shiina H, et al. **Prostate** 1996 Sep; 29(3):169–76

Immunohistochemical analysis of estramustine binding protein with particular reference to proliferative activity in human prostatic carcinoma. Shiina H, et al. **Prostate** 1997 Jun 15;32(1):49–58

FK506-binding protein mutational analysis: defining the active-site residue contributions to catalysis and the stability of ligand complexes. DeCenzo MT, et al.
Protein Eng 1996 Feb;9(2):173–80

Amino-terminal charge affects the periplasmic accumulation of recombinant heregulin/EGF hybrids exported using the Escherichia coli alkaline phosphatase signal sequence. Campion SR, et al. **Protein Expr Purif** 1997 Aug; 10(3):331–9

Purification and characterization of recombinant mouse growth hormone binding protein produced in the baculovirus expression system. Thordarson G, et al.
Protein Expr Purif 1996 Feb;7(1):74–80

Dynamic NMR studies of ligand-receptor interactions: design and analysis of a rapidly exchanging complex of FKBP-12/FK506 with a 24 kDa calcineurin fragment. Fejzo J, et al. **Protein Sci** 1996 Sep;5(9):1917–21

Novel domains in NADPH oxidase subunits, sorting nexins, and PtdIns 3-kinases: binding partners of SH3 domains? Ponting CP. **Protein Sci** 1996 Nov;5(11):2353–7

Determination of the binding frame of the chaperone SecB within the physiological ligand oligopeptide-binding protein. Smith VF, et al. **Protein Sci** 1997 Aug;6(8):1746–55

Template-based docking of a prolactin receptor proline-rich motif octapeptide to FKBP12: implications for cytokine receptor signaling. Soman KV, et al. **Protein Sci** 1997 May; 6(5):999–1008

Design of a leucine zipper coiled coil stabilized 1.4 kcal mol–1 by phosphorylation of a serine in the e position. Szilák L, et al. **Protein Sci** 1997 Jun;6(6):1273–83

Construction and analysis of a detailed three-dimensional model of the ligand binding domain of the human B cell receptor CD40. Bajorath J, et al. **Proteins** 1997 Jan; 27(1):59–70

Chronic GnRH agonist administration down-regulates platelet serotonin transporter in women undergoing assisted reproductive treatment. Eyal S, et al.
Psychopharmacology (Berl) 1996 May;125(2):141–5

The two orphan Na+/Cl(–)-dependent transporters Rxt1 and V-7-3-2 have an overlapping expression pattern in the rat central nervous system. Masson J, et al.
Receptors Channels 1996;4(4):227–42

Developmental changes in Ca(2+)-uptake, Na+,Ca(2+)-exchange and Ca(2+)-ATPase in freshly isolated embryonic, newborn and adult chicken heart. Prakash P, et al. **Reprod Fertil Dev** 1996;8(1):71–8

Alpha 1-adrenoceptor mediated activation of Na/K/2Cl cotransport and K+ channels in the rat heart involves different receptor subtypes. Andersen GO, et al.
Res Commun Mol Pathol Pharmacol 1997 Jun;96(3):329–40

Kdp-like system in Salmonella typhimurium LT-2. Garcia-Cuellar C, et al. **Rev Latinoam Microbiol** 1995 Jul-Sep;37(3):227–36

Lowering of plasma phospholipid transfer protein activity by acute hyperglycaemia-induced hyperinsulinaemia in healthy men. Van Tol A, et al.
Scand J Clin Lab Invest 1997 Apr;57(2):147–57

Acid-base transport in isolated rabbit duodenal villus and crypt cells. Ainsworth MA, et al.
Scand J Gastroenterol 1996 Nov;31(11):1069–77

Binding of complement proteins C1q and C4bp to serum amyloid P component (SAP) in solid contra liquid phase. Sørensen IJ, et al. **Scand J Immunol** 1996 Oct;44(4):401–7

Kap104p: a karyopherin involved in the nuclear transport of messenger RNA binding proteins. Aitchison JD, et al. **Science** 1996 Oct 25;274(5287):624–7

Sex-specific assembly of a dosage compensation complex on the nematode X chromosome [see comments] Chuang PT, et al. **Science** 1996 Dec 6;274(5293):1736–9. Comment in: Science 1996 Dec 6;274(5293):1633–4.

A cytoplasmic inhibitor of the JNK signal transduction pathway. Dickens M, et al. **Science** 1997 Aug 1; 277(5326):693–6

A mammalian telomerase-associated protein [see comments] Harrington L, et al. **Science** 1997 Feb 14;275(5302):973–7 . Comment in: Science 1997 Feb 14;275(5302):928.

NF-AT-Driven interleukin-4 transcription potentiated by NIP45. Hodge MR, et al. **Science** 1996 Dec 13; 274(5294):1903–5

PIN: an associated protein inhibitor of neuronal nitric oxide synthase. Jaffrey SR, et al. **Science** 1996 Nov 1; 274(5288):774–7

Ligand-specific opening of a gated-porin channel in the outer membrane of living bacteria. Jiang X, et al. **Science** 1997 May 23;276(5316):1261–4

Macromolecular trafficking indicated by localization and turnover of sucrose transporters in enucleate sieve elements. Kühn C, et al. **Science** 1997 Feb 28; 275(5304):1298–300

Identification of a human mitotic checkpoint gene: hsMAD2. Li Y, et al. **Science** 1996 Oct 11;274(5285):246–8

Postsynaptic glutamate transport at the climbing fiber-Purkinje cell synapse. Otis TS, et al. **Science** 1997 Sep 5;277(5331):1515–8

PTG, a protein phosphatase 1-binding protein with a role in glycogen metabolism. Printen JA, et al. **Science** 1997 Mar 7;275(5305):1475–8

Discovering high-affinity ligands for proteins: SAR by NMR. Shuker SB, et al. **Science** 1996 Nov 29; 274(5292):1531–4

NF-AT activation induced by a CAML-interacting member of the tumor necrosis factor receptor superfamily. von Bülow GU, et al. **Science** 1997 Oct 3;278(5335):138–41

Characterization of membrane transport processes: lessons from the study of BSP, bilirubin, and fatty acid uptake. Berk PD, et al. **Semin Liver Dis** 1996 May;16(2):107–20 (69 ref.)

Plasma membrane and mitochondrial transport of hepatic reduced glutathione. Fernández-Checa JC, et al.
Semin Liver Dis 1996 May;16(2):147–58 (44 ref.)

Hepatic amino acid transport. Moseley RH.
Semin Liver Dis 1996 May;16(2):137–45 (121 ref.)

Hepatocellular sinusoidal membrane organic anion transport and transporters. Wolkoff AW. **Semin Liver Dis** 1996 May; 16(2):121–7 (43 ref.)

Capping actin filament growth: tropomodulin in muscle and nonmuscle cells. Fowler VM. **Soc Gen Physiol Ser** 1997; 52:79–89 (46 ref.)

Flexibility is a likely determinant of binding specificity in the case of ileal lipid binding protein. Lücke C, et al.
Structure 1996 Jul 15;4(7):785–800

Human intestinal fatty acid binding protein: report of an assay with studies in normal volunteers and intestinal ischemia. Lieberman JM, et al. **Surgery** 1997 Mar;121(3):335–42

Prenatal cocaine alters dopamine transporter binding in postnatal day 10 rat striatum. Collins LM, et al.
Synapse 1996 Aug;23(4):335–43

[18F]CFT ([18F]WIN 35,428), a radioligand to study the dopamine transporter with PET: biodistribution in rats. Haaparanta M, et al. **Synapse** 1996 Aug;23(4):321–7

[11C]beta-CIT-FE, a radioligand for quantitation of the dopamine transporter in the living brain using positron emission tomography. Halldin C, et al. **Synapse** 1996 Apr; 22(4):386–90

Imaging of cholinergic terminals using the radiotracer [18F](+)-4-fluorobenzyltrozamicol: in vitro binding studies and positron emission tomography studies in nonhuman primates. Mach RH, et al. **Synapse** 1997 Apr; 25(4):368–80

Technepine: a high-affinity 99m-technetium probe to label the dopamine transporter in brain by SPECT imaging. Madras BK, et al. **Synapse** 1996 Mar;22(3):239–46

Quantitation of dopamine transporter mRNA in the rat brain: mapping, effects of "binge" cocaine administration and withdrawal. Maggos CE, et al. **Synapse** 1997 May; 26(1):55–61

Direct approach for attenuating cocaine's effects on extracellular dopamine: targeting the dopamine transporter. Morgan AE, et al. **Synapse** 1997 Aug;26(4):423–7

Quantification of dopamine transporter density in monkeys by dynamic PET imaging of multiple injections of 11C-CFT. Morris ED, et al. **Synapse** 1996 Nov; 24(3):262–72

Cocaine withdrawal reduces dopamine transporter binding in the shell of the nucleus accumbens. Pilotte NS, et al. **Synapse** 1996 Jan;22(1):87–92

In vitro and in vivo characterization of newly developed iodinated 1-[2-[bis(4-fluorophenyl)methoxy]ethyl]piperazine derivatives in rats: limited value as dopamine transporter SPECT ligands. Rijks LJ, et al. **Synapse** 1996 Jul; 23(3):201–7

N-substituted phenyltropanes as in vivo binding ligands for rapid imaging studies of the dopamine transporter. Scheffel U, et al. **Synapse** 1997 Apr;25(4):345–9

Mapping dopamine transporters in the human brain with novel selective cocaine analog [125I]RTI-121. Staley JK, et al. **Synapse** 1995 Dec;21(4):364–72

RTI-352: a 3 alpha analogue of RTI-55 as an in vivo dopamine transporter binding ligand. Zhan Y, et al.
Synapse 1997 Apr;25(4):389–92

Comparison of cyclophilin binding assay and radioimmunoassay in monitoring of blood cyclosporine. Huupponen R, et al. **Ther Drug Monit** 1997 Aug; 19(4):446–9

Identification of a 54-kDa mitochondrial acetaminophen-binding protein as aldehyde dehydrogenase. Landin JS, et al.
Toxicol Appl Pharmacol 1996 Nov;141(1):299–307

Effect of cadmium on Na-Pi cotransport kinetics in rabbit renal brush-border membrane vesicles. Park K, et al.
Toxicol Appl Pharmacol 1997 Aug;145(2):255–9

Discovery of FK 506 analogues that are nontoxic to mouse pancreatic beta cells in vitro but show diabetogenic potential when administered to the rat. Mollison KW, et al. **Transplant Proc** 1996 Dec;28(6):3185–8

Three-part inventions: intracellular signaling and induced proximity. Crabtree GR, et al. **Trends Biochem Sci** 1996 Nov;21(11):418–22 (46 ref.)

RB kinases and RB-binding proteins: new points of view. Taya Y. **Trends Biochem Sci** 1997 Jan;22(1):14–7 (50 ref.)

The T1/35kDa family of poxvirus-secreted proteins bind chemokines and modulate leukocyte influx into virus-infected tissues. Graham KA, et al. **Virology** 1997 Mar 3;229(1):12–24

Sequence-specific repression of cotranslational translocation of the hepatitis B virus envelope proteins coincides with binding of heat shock protein Hsc70. Löffler-Mary H, et al. **Virology** 1997 Aug 18;235(1):144–52

Masking of retroviral envelope functions by oligomerizing polypeptide adaptors. Morling FJ, et al. **Virology** 1997 Jul 21;234(1):51–61

Na(+)- and Cl(–)-dependent neurotransmitter transporters in bovine retina: identification and localization by in situ hybridization histochemistry. Jones EM. **Vis Neurosci** 1995 Nov-Dec;12(6):1135–42

Reconstitution of lactate proton symport activity in plasma membrane vesicles from the yeast Candida utilis. Gerós H, et al. **Yeast** 1996 Sep 30;12(12):1263–72

Role of the cytoskeleton in endocytosis of the yeast maltose transporter. Peñalver E, et al. **Yeast** 1997 May;13(6):541–9

Regulation of beta-lactamase synthesis as a novel site of action for suppression of methicillin resistance in Staphylococcus aureus. Bruns O, et al.
Zentralbl Bakteriol 1997 Feb;285(3):413–30

[Complementarity of microscopies in the structural analysis of DNA minicircles associated to protein MC1] Larquet E, et al. **C R Acad Sci III** 1996 Jun;319(6):461–71 (Eng. Abstr.) **(Fre)**

[OB protein and its receptor: signal transduction between adipose tissue and central nervous system] Campfield LA, et al. **Journ Annu Diabetol Hotel Dieu** 1997;:131–48 (63 ref.) **(Fre)**

[When certain blood group antigens are identified as specific membrane transporters (news)] Rondeau E. **Nephrologie** 1996;17(2):138 **(Fre)**

[Penicillin—binding protein: the target for beta-lactam antibiotics, beta-lactamases and their inhibitors] Lessel J. **Pharm Unserer Zeit** 1996 Jan;25(1):17–27 (24 ref.) **(Ger)**

[Identification and analysis of IRF-1 binding protein] Kondo T. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):509–16 (Eng. Abstr.) **(Jpn)**

[Lectin pathway and pathophysiology] Mastsushita m.
Nihon Rinsho Meneki Gakkai Kaishi 1995 Dec;18(6):627–30 (20 ref.) **(Jpn)**

[Molecular biology of transporters in GI tracts] Ishibashi K, et al. **Nippon Rinsho** 1996 Apr;54(4):1122–9 (56 ref.) (Eng. Abstr.) **(Jpn)**

[Confocal laser scanning microscopy for the study of membrane transporter proteins] Tanaka H, et al.
Nippon Rinsho 1996 Mar;54(3):711–7 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Complete cholesteryl ester transfer protein deficiency increases oxidized-LDL in plasma] Chiba H, et al.
Rinsho Byori 1997 Jan;45(1):55–7 (Eng. Abstr.) **(Jpn)**

[Abnormality of HDL subfractions in cholesteryl ester transfer protein deficiency] Miida T, et al. **Rinsho Byori** 1996 Sep;44(9):865–70 (Eng. Abstr.) **(Jpn)**

[Inhibitors of the ADP/ATP antiporter induce two Ca2+-dependent uncoupling systems in rat liver mitochondria] Mikhailova LM, et al. **Biokhimiia** 1996 Jul; 61(7):1270–8 (Eng. Abstr.) **(Rus)**

[Localization of substrate binding sites in the mitochondrial dicarboxylate transporter] Bondarenko DI, et al.
Dokl Akad Nauk 1996 Jul;349(3):408–10 **(Rus)**

[Effect of alpha-tocopherol and nuclear tocopherol-binding proteins on DNA-polymerase activity of isolated nuclei and nuclear matrix] Donchenko GV, et al.
Ukr Biokhim Zh 1996 Nov-Dec;68(6):18–23 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Permeabilization of mammalian cells to proteins: poliovirus 2A(pro) as a probe to analyze entry of proteins into cells [published erratum appears in Exp Cell Res 1997 Jul 10;234(1):191–2] Novoa I, et al. **Exp Cell Res** 1997 Apr 10;232(1):186–90

PHARMACOLOGY

Analysis of heregulin-induced ErbB2 phosphorylation with a high-throughput Kinase receptor activation enzyme-linked immunosorbant assay. Sadick MD, et al.
Anal Biochem 1996 Mar 15;235(2):207–14

Phosphatidylinositol 3-kinase mediates heregulin-induced growth inhibition in human epithelial cells. Hamburger AW, et al. **Anticancer Res** 1997 May-Jun;17(3C):2197–200

Galactose oxidase-glucan binding domain fusion proteins as targeting inhibitors of dental plaque bacteria. Lis M, et al. **Antimicrob Agents Chemother** 1997 May;41(5):999–1003

Antimicrobial action of rabbit leukocyte CAP18(106–137).

Mason DJ, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):624–9

Lactoferrin inhibits herpes simplex virus type 1 adsorption to Vero cells. Marchetti M, et al. **Antiviral Res** 1996 Mar; 29(2–3):221–31

Fatty acid binding protein: stimulation of microsomal phosphatidic acid formation. Jolly CA, et al. **Arch Biochem Biophys** 1997 May 1;341(1):112–21

Crovidisin, a collagen–binding protein isolated from snake venom of Crotalus viridis, prevents platelet–collagen interaction. Liu CZ, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):291–9

Stimulation of collagen expression and glycosaminoglycan synthesis by midkine in human skin fibroblasts. Yamada H, et al. **Arch Dermatol Res** 1997 Jun;289(7):429–33

Acyl–CoA binding proteins inhibit the nonenzymic S–acylation of cysteinyl–containing peptide sequences by long–chain acyl–CoAs. Leventis R, et al. **Biochemistry** 1997 May 6;36(18):5546–53

Difference in the binding mode of two mannose–binding proteins: demonstration of a selective minicluster effect. Quesenberry MS, et al. **Biochemistry** 1997 Mar 4; 36(9):2724–32

Fatty acid binding proteins reduce 15–iipoxygenase–induced oxygenation of linoleic acid and arachidonic acid. Ek BA, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):75–85

Acyl–CoA binding protein (ACBP) regulates acyl–CoA:cholesterol acyltransferase (ACAT) in human mononuclear phagocytes. Kerkhoff C, et al. **Biochim Biophys Acta** 1997 Jun 2;1346(2):163–72

Effect of lipid transfer proteins on lipoprotein lipase induced transformation of VLDL and HDL. Murdoch SJ, et al. **Biochim Biophys Acta** 1996 Oct 18;1303(3):222–32

Heregulin (HRG)–induced mitogenic signaling and cytotoxic activity of a HRG/PE40 ligand toxin in human breast cancer cells. Fiddes RJ, et al. **Cell Growth Differ** 1995 Dec; 6(12):1567–77

Midkine stimulates Wilms' tumor cell proliferation via its signaling receptor. Ratovitski EA, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 May;43(3):425–31

Antagonists of the mannose receptor and the LDL receptor–related protein dramatically delay the clearance of tissue plasminogen activator. Biessen EA, et al. **Circulation** 1997 Jan 7;95(1):46–52

Interactions of Na+, H2O2 and the Na+–Ca2+ exchanger stimulate Ca2+ release in CK1.4 cells. Fang Y, et al. **Clin Exp Pharmacol Physiol** 1997 Feb;24(2):170–4

Lipopolysaccharide binding protein participation in cellular activation by LPS. Su GL, et al. **Crit Rev Immunol** 1995; 15(3–4):201–14 (97 ref.)

Inhibition of pRb phosphorylation and cell–cycle progression by a 20–residue peptide derived from p16CDKN2/INK4A. Fåhraeus R, et al. **Curr Biol** 1996 Jan 1;6(1):84–91

E2F–1 but not E2F–4 can overcome p16–induced G1 cell–cycle arrest. Mann DJ, et al. **Curr Biol** 1996 Apr 1; 6(4):474–83

Role of HB–GAM (heparin–binding growth–associated molecule) in proliferation arrest in cells of the developing rat limb and its expression in the differentiating neuromuscular system. Szabat E, et al. **Dev Biol** 1996 Aug 25;178(1):77–89

Effects of adjuvant, dose and carrier pre–sensitisation on the immunisation efficacy of a GnRH analogue. Ferro VA, et al. **Drug Des Discov** 1996 Dec;14(3):179–95

Mechanism of TGFbeta receptor inhibition by FKBP12. Chen YG, et al. **EMBO J** 1997 Jul 1;16(13):3866–76

Inhibition of E2F–mediated transcription by p202. Choubey D, et al. **EMBO J** 1996 Oct 15;15(20):5668–78

Recombinant human growth hormone (GH)–binding protein enhances the growth–promoting activity of human GH in the rat. Clark RG, et al. **Endocrinology** 1996 Oct; 137(10):4308–15

Absence of cholesteryl ester transfer protein–mediated cholesteryl ester mass transfer from high–density lipoprotein to low–density lipoprotein particles is a major feature of combined hyperlipidaemia. Guérin M, et al. **Eur J Clin Invest** 1996 Jun;26(6):485–94

Developmentally regulated neurite outgrowth response from dorsal root ganglion neurons to heparin–binding growth–associated molecule (HB–GAM) and the expression of HB–GAM in the targets of the developing dorsal root ganglion neurites. Nolo R, et al. **Eur J Neurosci** 1996 Aug;8(8):1658–65

Similar effects of alpha– and beta–SNAP on Ca(2+)–regulated exocytosis. Sudlow AW, et al. **FEBS Lett** 1996 Sep 16;393(2–3):185–8

Exogenously injected nuclear import factor p10/NTF2 inhibits signal–mediated nuclear import and export of proteins in living cells. Tachibana T, et al. **FEBS Lett** 1996 Nov 18;397(2–3):177–82

Hapten–carrier interactions and their role in the production of monoclonal antibodies against hydrophobic haptens. Fasciglione GF, et al. **Hybridoma** 1996 Feb;15(1):1–9

Cleavage of the third component of complement (C3) by mannose–binding protein–associated serine protease (MASP) with subsequent complement activation. Matsushita M, et al. **Immunobiology** 1995 Nov; 194(4–5):443–48

Evaluation of interleukin–1 receptor antagonist (IL–1RA) and tumor necrosis factor binding protein (TNF–BP) in a rodent abscess model of host resistance. Colagiovanni DB, et al. **Immunopharmacol Immunotoxicol** 1996 Aug; 18(3):397–419

Inhibition of lipopolysaccharide–induced transcription factor Sp1 binding by spectrally pure diphosphoryl lipid A from Rhodobacter sphaeroides, protein kinase inhibitor H–8, and dexamethasone. Jarvis BW, et al. **Infect Immun** 1997 May; 65(5):1640–3

Effect of anticoagulants on binding and neutralization of lipopolysaccharide by the peptide immunoglobulin conjugate CAP18(106–138)–immunoglobulin G in whole blood. Ogata M, et al. **Infect Immun** 1997 Jun;65(6):2160–7

Intra–tumoral application of a heregulin–exotoxin–a fusion protein causes rapid tumor regression without adverse systemic or local effects. Groner B, et al. **Int J Cancer** 1997 Mar 17;70(6):682–7

Coactivation in vitro of the sigma54–dependent promoter Pu of the TOL plasmid of Pseudomonas putida by HU and the mammalian HMG–1 protein. Pérez–Martín J, et al. **J Bacteriol** 1997 Apr;179(8):2757–60

Signal transduction pathways involved in the mitogenic activity of pleiotrophin. Implication of mitogen–activated protein kinase and phosphoinositide 3–kinase pathways. Souttou B, et al. **J Biol Chem** 1997 Aug 1;272(31):19588–93

Selective activation of cAMP–dependent protein kinase type I inhibits rat natural killer cell cytotoxicity. Torgersen KM, et al. **J Biol Chem** 1997 Feb 28;272(9):5495–500

Patch–clamp capacitance analysis of the effects of alpha–SNAP on exocytosis in adrenal chromaffin cells. Kibble AV, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2417–22

Kallistatin is a potent new vasodilator. Chao J, et al. **J Clin Invest** 1997 Jul 1;100(1):11–7

Integrin–associated protein (CD47) is a comitogenic molecule on CD3–activated human T cells. Ticchioni M, et al. **J Immunol** 1997 Jan 15;158(2):677–84

Cyclosporine A–resistant human immunodeficiency virus type 1 mutants demonstrate that Gag encodes the functional target of cyclophilin A. Braaten D, et al. **J Virol** 1996 Aug;70(8):5170–6

Regulation of human growth hormone receptor gene transcription by human growth hormone binding protein. Mullis PE, et al. **Mol Cell Endocrinol** 1997 Jul 4; 131(1):89–96

RenaGel, a novel calcium– and aluminium–free phosphate binder, inhibits phosphate absorption in normal volunteers. Burke SK, et al. **Nephrol Dial Transplant** 1997 Aug; 12(8):1640–4

Diazepam binding inhibitor is a potent cholecystokinin–releasing peptide in the intestine [published erratum appears in Proc Natl Acad Sci U S A 1996 Nov 26;93(24):14214] Herzig KH, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7927–32

PHYSIOLOGY

Mitochondrial metabolite carrier family, topology, structure and functional properties: an overview. Sluse FE. **Acta Biochim Pol** 1996;43(2):349–60 (63 ref.)

Growth hormone–binding proteins—an overview. Baumann G. **Acta Paediatr Suppl** 1996 Oct;417:95–7 (25 ref.)

Transformed alpha 2–macroglobulin as a low–affinity growth hormone–binding protein. Kratzsch J, et al. **Acta Paediatr Suppl** 1996 Oct;417:108–10

Growth hormone–binding protein: biological significance. Postel–Vinay MC. **Acta Paediatr Suppl** 1996 Oct; 417:98–101 (28 ref.)

Contribution of Na+/Ca2+ exchange to action potential of human atrial myocytes. Bénardeau A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1151–61

Interactions of external and internal K+ with K(+)–HCO3–cotransporter of rat medullary thick ascending limb. Blanchard A, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C218–25

LPS–induced anorexia in leptin–deficient (ob/ob) and leptin receptor–deficient (db/db) mice. Faggioni R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R181–6

Na+/Ca2+ exchange current and contractions measured under Cl(–)–free conditions in developing rabbit hearts. Haddock PS, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H837–46

Regulation of [Ca2+]i in canine airway smooth muscle by Ca(2+)–ATPase and Na+/Ca2+ exchange mechanisms. Janssen LJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L322–30

Molecular and functional characterization of intestinal Na(+)–dependent neutral amino acid transporter B0. Kekuda R, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1463–72

Molecular aspects of hepatobiliary transport. Müller M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1285–303 (241 ref.)

Urea transporters in kidney and erythrocytes. Sands JM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F321–39 (163 ref.)

Heavy metals inhibit Pi–induced currents through human brush–border NaPi–3 cotransporter in Xenopus oocytes. Wagner CA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F926–30

Images in neuroscience. A mouse knockout. Caron MG. **Am J Psychiatry** 1996 Nov;153(11):1387

Images in neuroscience. Molecular biology, II. A dopamine transporter mouse knockout. Caron MG. **Am J Psychiatry** 1996 Dec;153(12):1515

Cholesterol efflux from Fu5AH hepatoma cells induced by plasma of subjects with or without coronary artery disease and non–insulin–dependent diabetes: importance of LpA–I:A–II particles and phospholipid transfer protein. Syvänne M, et al. **Atherosclerosis** 1996 Dec 20; 127(2):245–53

Role for NSF on vesicular transport: insights from in vitro endosome fusion. Colombo MI. **Biocell** 1996 Dec; 20(3):317–23 (58 ref.)

Involvement of the dicarboxylate carrier in the protonophoric action of long–chain fatty acids in mitochondria. Więckowski MR, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):414–7

Different electrophysiological character of I–, ClO4–, and SCN– in the transport by Na+/I– symporter. Yoshida A, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):731–4

Phospholipid transfer proteins revisited. Wirtz KW. **Biochem J** 1997 Jun 1;324 (Pt 2):353–60 (95 ref.)

Enhancement of the functional stability of solubilized nucleoside transporters by substrates and inhibitors. Hammond JR. **Biochem Pharmacol** 1997 Mar 7;53(5):623–9

pH dependence of methotrexate transport by the reduced folate carrier and the folate receptor in L1210 leukemia cells. Further evidence for a third route mediated at low pH. Sierra EE, et al. **Biochem Pharmacol** 1997 Jan 24; 53(2):223–31

Human K562 transfectants expressing high levels of reduced folate carrier but exhibiting low transport activity. Wong SC, et al. **Biochem Pharmacol** 1997 Jan 24;53(2):199–206

Regulation of the functional activity of the human dopamine transporter by protein kinase C. Zhang L, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):677–88

SNAPs and SNAREs in exocytosis in chromaffin cells. Burgoyne RD, et al. **Biochem Soc Trans** 1996 Aug; 24(3):653–7 (47 ref.)

TcR zeta/CD3 signal transduction in T–cells: downstream signalling via ZAP–70, SLP–76 and FYB. da Silva AJ, et al. **Biochem Soc Trans** 1997 May;25(2):361–6

The human intestinal H+/oligopeptide cotransporter hPEPT1 transports differently–charged dipeptides with identical electrogenic properties. Mackenzie B, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):125–8

Microsomal triglyceride transfer protein. Wetterau JR, et al. **Biochim Biophys Acta** 1997 Apr 1;1345(2):136–50 (74 ref.)

The roles of NSF, SNAPs and SNAREs during membrane fusion. Woodman PG. **Biochim Biophys Acta** 1997 Jun 27; 1357(2):155–72 (173 ref.)

Obesity genes and the regulation of body fat content. Weigle DS, et al. **Bioessays** 1996 Nov;18(11):867–74 (79 ref.)

Functional analysis of the yeast 40 kDa cyclophilin Cyp40 and its role for viability and steroid receptor regulation. Warth R, et al. **Biol Chem** 1997 May;378(5):381–91

Serotonin transporter expression in rat brain regions and blood platelets: aging and glucocorticoid effects. Slotkin TA, et al. **Biol Psychiatry** 1997 Jan 15;41(2):172–83

Subconductance states in single–channel activity of skeletal muscle ryanodine receptors after removal of FKBP12. Ahern GP, et al. **Biophys J** 1997 Jan;72(1):146–62

Single–channel currents produced by the serotonin transporter and analysis of a mutation affecting ion permeation. Lin F, et al. **Biophys J** 1996 Dec;71(6):3126–35

Electrophysiological characterization of ionic transport by the retinal exchanger expressed in human embryonic kidney cells. Navanglone A, et al. **Biophys J** 1997 Jul;73(1):45–51

The GS–X pump in plant, yeast, and animal cells: structure, function, and gene expression. Ishikawa T, et al. **Biosci Rep** 1997 Apr;17(2):189–207 (100 ref.)

Dehydration of transferrin receptor–positive sickle reticulocytes during continuous or cyclic deoxygenation: role of KCl cotransport and extracellular calcium. Franco RS, et al. **Blood** 1996 Dec 1;88(11):4359–65

From malaria to chemokine receptor: the emerging physiologic role of the Duffy blood group antigen. Hadley TJ, et al. **Blood** 1997 May 1;89(9):3077–91 (129 ref.)

Affinity modulation of the platelet integrin alpha IIb beta 3 by alpha–chymotrypsin: a possible role for Na+/Ca2+ exchanger. Shiraga M, et al. **Blood** 1996 Oct 1; 88(7):2594–602

Carcinoembryonic antigen induces signal transduction in Kupffer cells. Gangopadhyay A, et al. **Cancer Lett** 1997 Sep 16;118(1):1–6

The p16–cyclin D/Cdk4–pRb pathway as a functional unit frequently altered in melanoma pathogenesis. Bartkova J, et al. **Cancer Res** 1996 Dec 1;56(23):5475–83

An angiogenic role for the neurokines midkine and pleiotrophin in tumorigenesis. Choudhuri R, et al. **Cancer Res** 1997 May 1;57(9):1814–9

MDR1 substrates/modulators protect against beta–estradiol–17beta–D–glucuronide cholestasis in rat liver. Liu Y, et al. **Cancer Res** 1996 Nov 1;56(21):4992–7

Expression of the angiogenic factors vascular endothelial cell growth factor, acidic and basic fibroblast growth factor, tumor growth factor beta–1, platelet–derived endothelial cell growth factor, placenta growth factor, and pleiotrophin in human primary breast cancer and its relation to angiogenesis. Relf M, et al. **Cancer Res** 1997 Mar 1; 57(5):963–9

Mena, a relative of VASP and Drosophila Enabled, is implicated in the control of microfilament dynamics. Gertler FB, et al. **Cell** 1996 Oct 18;87(2):227–39

Immunodeficiency and chronic myelogenous leukemia–like syndrome in mice with a targeted mutation of the ICSBP gene. Holtschke T, et al. **Cell** 1996 Oct 18;87(2):307–17

Absconding with the chaperone: essential cyclophilin–Gag interaction in HIV–1 virions. Luban J. **Cell** 1996 Dec 27;

87(7):1157-9
Adipogenesis and obesity: rounding out the big picture. Spiegelman BM, et al. **Cell** 1996 Nov 1;87(3):377-89 (110 ref.)
Involvement of gicerin, a cell adhesion molecule, in tracheal development and regeneration. Tsukamoto Y, et al. **Cell Growth Differ** 1996 Dec;7(12):1761-7
Thermal activation of the bovine Hsc70 molecular chaperone at physiological temperatures: physical evidence of a molecular thermometer. Leung SM, et al. **Cell Stress Chaperones** 1996 Apr;1(1):78-89
Role of an electrogenic Na(+)-HCO3- cotransport in determining myocardial pHi after an increase in heart rate. Camilión de Hurtado MC, et al. **Circ Res** 1996 Oct; 79(4):698-704
Pleiotrophin and midkine in normal development and tumor biology. Kurtz A, et al. **Crit Rev Oncog** 1995;6(2):151-77 (25 ref.)
A role for leptin and its cognate receptor in hematopoiesis. Bennett BD, et al. **Curr Biol** 1996 Sep 1;6(9):1170-80
SNAREs and NSF in targeted membrane fusion. Hay JC, et al. **Curr Opin Cell Biol** 1997 Aug;9(4):505-12 (70 ref.)
Mammalian urea transporters. Shayakul C, et al. **Curr Opin Nephrol Hypertens** 1996 Sep;5(5):401-5 (21 ref.)
Channels in transporters. Sonders MS, et al. **Curr Opin Neurobiol** 1996 Jun;6(3):294-302 (59 ref.)
Leptin and OB-R: body weight regulation by a cytokine receptor. White DW, et al. **Cytokine Growth Factor Rev** 1996 Dec;7(4):303-9 (61 ref.)
Glutamate transporter EAAC-1-deficient mice develop dicarboxylic aminoaciduria and behavioral abnormalities but no neurodegeneration. Peghini P, et al. **EMBO J** 1997 Jul 1;16(13):3822-32
Cooperation of enzymatic and chaperone functions of trigger factor in the catalysis of protein folding. Scholz C, et al. **EMBO J** 1997 Jan 2;16(1):54-8
Functional STAT 1 and 3 signaling by the leptin receptor (OB-R); reduced expression of the rat fatty leptin receptor in transfected cells. Rosenblum CI, et al. **Endocrinology** 1996 Nov;137(11):5178-81
Distinct repression of translation by wortmannin and rapamycin. Pedersen S, et al. **Eur J Biochem** 1997 Jul 1; 247(1):449-56
The VPS8 gene is required for localization and trafficking of the CPY sorting receptor in Saccharomyces cerevisiae. Chen YJ, et al. **Eur J Cell Biol** 1996 Aug;70(4):289-97
The adipocyte fatty acid-binding protein links obesity and insulin resistance. Berg JP. **Eur J Endocrinol** 1997 May; 136(5):467-8
Dual role of mannan-binding protein in infections: another case of heterosis? Garred P, et al. **Eur J Immunogenet** 1994 Apr;21(2):125-31
Leptin, leptin receptors and the control of body weight. Friedman JM. **Eur J Med Res** 1997 Jan;2(1):7-13 (46 ref.)
Involvement of Na+-Ca2+ exchanger in reperfusion-induced delayed cell death of cultured rat astrocytes. Matsuda T, et al. **Eur J Neurosci** 1996 May; 8(5):951-8
The extraneuronal transporter for monoamine transmitters exists in cells derived from human central nervous system glia. Russ H, et al. **Eur J Neurosci** 1996 Jun;8(6):1256-64
Nucleoside transporter-mediated uptake and release of [3H]L-adenosine in DDT1 MF-2 smooth muscle cells. Foga IO, et al. **Eur J Pharmacol** 1996 Dec 30; 318(2-3):455-60
Regulation of the functional activity of the human dopamine transporter by the arachidonic acid pathway. Zhang L, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):345-54
Ectonucleotidases, purine nucleoside transporter, and function of the bile canalicular plasma membrane of the hepatocyte. Che M, et al. **FASEB J** 1997 Feb;11(2):101-8 (86 ref.)
A novel regulatory function of proteolytically cleaved VEGF-2 for vascular endothelial and smooth muscle cells. Hu JS, et al. **FASEB J** 1997 May;11(6):498-504
Monoamine neurotransmitter transport mediated by the polyspecific cation transporter rOCT1. Busch AE, et al. **FEBS Lett** 1996 Oct 21;395(2-3):153-6
Rho effectors and reorganization of actin cytoskeleton. Narumiya S, et al. **FEBS Lett** 1997 Jun 23;410(1):68-72 (41 ref.)
Immotile phenotype of an Escherichia coli mutant lacking the histone-like protein HU. Nishida S, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):297-301
Insertional inactivation of a Tet(K)/Tet(L) like transporter does not eliminate tetracycline resistance in Bacillus cereus. Okstad OA, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):181-6
Mechanisms of multidrug transporters. Bolhuis H, et al. **FEMS Microbiol Rev** 1997 Aug;21(1):55-84 (205 ref.)
The oligopeptide transporter (Pept-1) in human intestine: biology and function. Adibi SA. **Gastroenterology** 1997 Jul; 113(1):332-40 (55 ref.)
Cholesteryl ester transfer protein: an enigmatic protein. Moulin P. **Horm Res** 1996;45(3-5):238-44 (32 ref.)
Corticotropin-releasing factor-binding protein: origins and possible functions. Petraglia F, et al. **Horm Res** 1996; 45(3-5):187-91 (37 ref.)
Regulation of the oncogenic activity of BCR-ABL by a tightly bound substrate protein RIN1. Afar DE, et al. **Immunity** 1997 Jun;6(6):773-82
Induction of cell cycle arrest and B cell terminal differentiation by CDK inhibitor p18(INK4c) and IL-6. Morse L, et al. **Immunity** 1997 Jan;6(1):47-56
Casper is a FADD- and caspase-related inducer of apoptosis. Shu HB, et al. **Immunity** 1997 Jun;6(6):751-63
Macrophage scavenger receptor MARCO: in vitro and in vivo regulation and involvement in the anti-bacterial host defense. van der Laan LJ, et al. **Immunol Lett** 1997 Jun 1;57(1-3):203-8
Inhibition of cyclophilin function in HIV-1 infection by cyclosporin A. Huss R. **Immunol Today** 1996 Jun; 17(6):259-60
Stabilized expression of mRNA is associated with mycobacterial resistance controlled by Nramp1. Brown DH, et al. **Infect Immun** 1997 Feb;65(2):597-603
Serum factors, cell membrane CD14, and beta2 integrins are not required for activation of bovine macrophages by lipopolysaccharide. Jungi TW, et al. **Infect Immun** 1997 Sep;65(9):3577-84
A monoclonal antibody directed against the 97-kilodalton gonococcal hemin-binding protein inhibits hemin utilization by Neisseria gonorrhoeae. Lee BC, et al. **Infect Immun** 1997 Jul;65(7):2970-4
The fibronectin-binding protein of Streptococcus pyogenes, SfbI, is involved in the internalization of group A streptococci by epithelial cells. Molinari G, et al. **Infect Immun** 1997 Apr;65(4):1357-63
Effect of mts1 (S100A4) expression on the progression of human breast cancer cells. Grigorian M, et al. **Int J Cancer** 1996 Sep 17;67(6):831-41
Role of conserved peptide in taurine transporter inactivation modulated by protein kinase C. Han X, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2088-96
Overexpression of cell cycle inhibitors (p16INK4 and p21Cip1) and cyclin D1 using adenovirus vectors regulates proliferation of rat mesangial cells. Terada Y, et al. **J Am Soc Nephrol** 1997 Jan;8(1):51-60
In vivo nickel insertion into the carbon monoxide dehydrogenase of Rhodospirillum rubrum: molecular and physiological characterization of cooCTJ. Kerby RL, et al. **J Bacteriol** 1997 Apr;179(7):2259-66
Regions of Escherichia coli TonB and FepA proteins essential for in vivo physical interactions. Larsen RA, et al. **J Bacteriol** 1997 May;179(10):3213-21
Midkine, a heparin-binding growth/differentiation factor, exhibits nerve cell adhesion and guidance activity for neurite outgrowth in vitro. Kaneda N, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1150-6
Electrogenic L-histidine transport in neutral and basic amino acid transporter (NBAT)-expressing Xenopus laevis oocytes. Evidence for two functionally distinct transport mechanisms induced by NBAT expression. Ahmed A, et al. **J Biol Chem** 1997 Jan 3;272(1):125-30
Sterol carrier protein-2 overexpression enhances sterol cycling and inhibits cholesterol ester synthesis and high density lipoprotein cholesterol secretion. Baum CL, et al. **J Biol Chem** 1997 Mar 7;272(10):6490-8
Co-translational degradation of apolipoprotein B100 by the proteasome is prevented by microsomal triglyceride transfer protein. Synchronized translation studies on HepG2 cells treated with an inhibitor of microsomal triglyceride transfer protein. Benoist F, et al. **J Biol Chem** 1997 Aug 15;272(33):20435-42
Cloning and functional expression of a human kidney Na+:HCO3- cotransporter. Burnham CE, et al. **J Biol Chem** 1997 Aug 1;272(31):19111-4
Electrogenic properties and substrate specificity of the polyspecific rat cation transporter rOCT1. Busch AE, et al. **J Biol Chem** 1996 Dec 20;271(51):32599-604
Thrombspondin acts via integrin-associated protein to activate the platelet integrin alphaIIbbeta3. Chung J, et al. **J Biol Chem** 1997 Jun 6;272(23):14740-6
Protein PAB, an albumin-binding bacterial surface protein promoting growth and virulence. de Château M, et al. **J Biol Chem** 1996 Oct 25;271(43):26609-15
Uncoupling protein-3 is a mediator of thermogenesis regulated by thyroid hormone, beta3-adrenergic agonists, and leptin. Gong DW, et al. **J Biol Chem** 1997 Sep 26; 272(39):24129-32
Primary structure and functional expression of the apical organic cation transporter from kidney epithelial LLC-PK1 cells. Gründemann D, et al. **J Biol Chem** 1997 Apr 18;272(16):10408-13
Regulation of guanylyl cyclase by a cGMP-binding protein during chemotaxis in Dictyostelium discoideum. Kuwayama H, et al. **J Biol Chem** 1996 Sep 27; 271(39):23718-24
Role of the yeast phosphatidylinositol/phosphatidylcholine transfer protein (Sec14p) in phosphatidylcholine turnover and INO1 regulation. Patton-Vogt JL, et al. **J Biol Chem** 1997 Aug 15;272(33):20873-83
The leptin receptor. Tartaglia LA. **J Biol Chem** 1997 Mar 7;272(10):6093-6 (59 ref.)
Protein kinase A-anchoring inhibitor peptides arrest mammalian sperm motility. Vijayaraghavan S, et al. **J Biol Chem** 1997 Feb 21;272(8):4747-52
Fas-associated death domain protein interleukin-1beta-converting enzyme 2 (FLICE2), an ICE/Ced-3 homologue, is proximally involved in CD95- and p55-mediated death signaling. Vincenz C, et al. **J Biol Chem** 1997 Mar 7;272(10):6578-83
Leptin receptor action in hepatic cells. Wang Y, et al. **J Biol Chem** 1997 Jun 27;272(26):16216-23
Cloning and functional characterization of a rat renal organic cation transporter isoform (rOCT1A). Zhang L, et al. **J Biol Chem** 1997 Jun 27;272(26):16548-54
Cellular and molecular mechanisms of renal phosphate transport. Tenenhouse HS. **J Bone Miner Res** 1997 Feb; 12(2):159-64 (64 ref.)
Dictyostelium IQGAP-related protein specifically involved in the completion of cytokinesis. Adachi H, et al. **J Cell Biol** 1997 May 19;137(4):891-8
Thrombospondin modulates alpha v beta 3 function through integrin-associated protein. Gao AG, et al. **J Cell Biol** 1996 Oct;135(2):533-44
Tim23, a protein import component of the mitochondrial inner membrane, is required for normal activity of the multiple conductance channel, MCC. Lohret TA, et al. **J Cell Biol** 1997 Apr 21;137(2):377-86
Sequential actions of Rab5 and Rab7 regulate endocytosis in the Xenopus oocyte. Mukhopadhyay A, et al. **J Cell Biol** 1997 Mar 24;136(6):1227-37
Extracellular fibrillar structure of latent TGF beta binding protein-1: role in TGF beta-dependent endothelial-mesenchymal transformation during endocardial cushion tissue formation in mouse embryonic heart. Nakajima Y, et al. **J Cell Biol** 1997 Jan 13; 136(1):193-204
Drosophila kelch is an oligomeric ring canal actin organizer. Robinson DN, et al. **J Cell Biol** 1997 Aug 25;138(4):799-810
Targeting of chitin synthase 3 to polarized growth sites in yeast requires Chs5p and Myo2p. Santos B, et al. **J Cell Biol** 1997 Jan 13;136(1):95-110
Characterization of the adaptor-related protein complex, AP-3. Simpson F, et al. **J Cell Biol** 1997 May 19; 137(4):835-45
Human blood-brain barrier leptin receptor. Binding and endocytosis in isolated human brain microvessels. Golden PL, et al. **J Clin Invest** 1997 Jan 1;99(1):14-8
The renal electrogenic Na+:HCO-3 cotransporter. Boron VF, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):263-8 (24 ref.)
Volume-sensitive transport systems and volume homeostasis in vertebrate red blood cells. Cossins AR, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):343-52 (97 ref.)
EmrE, the smallest ion-coupled transporter, provides a unique paradigm for structure-function studies. Schuldiner S, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):335-41 (36 ref.)
Function of metal-ion homeostasis in the cell division cycle, mitochondrial protein processing, sensitivity to mycobacterial infection and brain function. Supek F, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):321-30 (73 ref.)
Role of the 5-lipoxygenase-activating protein (FLAP) in murine acute inflammatory responses. Byrum RS, et al. **J Exp Med** 1997 Mar 17;185(6):1065-75
Collagen-induced arthritis is reduced in 5-lipoxygenase-activating protein-deficient mice. Griffiths RJ, et al. **J Exp Med** 1997 Mar 17;185(6):1123-9
Cross-signaling between L-type Ca2+ channels and ryanodine receptors in rat ventricular myocytes. Adachi-Akahane S, et al. **J Gen Physiol** 1996 Nov; 108(5):435-54
Regulation of human immunodeficiency virus gp160-mediated cell fusion by antibodies against fusion regulatory protein 1. Ohgimoto S, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2747-56
An anti-fusion regulatory protein-1 monoclonal antibody suppresses human parainfluenza virus type 2-induced cell fusion. Okamoto K, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):83-9
Role of multidrug resistance protein (MRP) in glutathione S-conjugate transport in mammalian cells. Müller M, et al. **J Hepatol** 1996;24 Suppl 1:100-8 (123 ref.)
ApoA-II/apoA-I molar ratio in the HDL particle influences phospholipid transfer protein-mediated HDL interconversion. Pussinen PJ, et al. **J Lipid Res** 1997 Jan; 38(1):12-21
The renal cortical Na+/HCO3- cotransporter VI: the effect of chemical modification in cotransporter activity. Bernardo AA, et al. **J Membr Biol** 1997 Jul 1;158(1):49-57
The spTRK gene encodes a potassium-specific transport protein TKHp in Schizosaccharomyces pombe [letter] Bertl A. **J Membr Biol** 1997 Sep 1;159(1):95-7
Magnesium transport across the basolateral plasma membrane of the fish enterocyte. Bijvelds MJC, et al. **J Membr Biol** 1996 Dec;154(3):217-25
Function and molecular structure of brush border membrane peptide/H+ symporters. Daniel H. **J Membr Biol** 1996 Dec;154(3):197-203 (68 ref.)
Influence of hypo-osmolality on the activity of short-chain neutral amino acid carriers in trout (Salmo trutta) red blood cells. Gallardo MA, et al. **J Membr Biol** 1997 Jan 15; 155(2):113-9
The molecular physiology of electroneutral cation-chloride cotransport. Mount DB, et al. **J Membr Biol** 1997 Aug 1;158(3):177-86 (95 ref.)
Rapid swelling of a CHO-K1 aspartate/glutamate transport mutant in hypo-osmotic medium. Tong X, et al. **J Membr Biol** 1997 Mar 15;156(2):131-9
Exposure of astrocytes to hypoxia/reoxygenation enhances expression of glucose-regulated protein 78 facilitating astrocyte release of the neuroprotective cytokine interleukin 6. Hori O, et al. **J Neurochem** 1996 Mar; 66(3):973-9
Inhibition by drebrin of the actin-bundling activity of brain fascin, a protein localized in filopodia of growth cones.

Sasaki Y, et al. **J Neurochem** 1996 Mar;66(3):980–8
Ultrastructural view of central catecholaminergic transmission: immunocytochemical localization of synthesizing enzymes, transporters and receptors. Pickel VM, et al. **J Neurocytol** 1996 Dec;25(12):843–56 (141 ref.)
A role for TrkA during maturation of striatal and basal forebrain cholinergic neurons in vivo. Fagan AM, et al. **J Neurosci** 1997 Oct 15;17(20):7644–54
Drosophila serotonin transporters have voltage–dependent uptake coupled to a serotonin–gated ion channel. Galli A, et al. **J Neurosci** 1997 May 15;17(10):3401–11
Endogenous serine protease inhibitor modulates epileptic activity and hippocampal long–term potentiation. Lüthi A, et al. **J Neurosci** 1997 Jun 15;17(12):4688–99
The dopamine transporter: comparative ultrastructure of dopaminergic axons in limbic and motor compartments of the nucleus accumbens. Nirenberg MJ, et al. **J Neurosci** 1997 Sep 15;17(18):6899–907
Delayed clearance of transmitter and the role of glutamate transporters at synapses with multiple release sites. Otis TS, et al. **J Neurosci** 1996 Mar 1;16(5):1634–44
Multiple ionic conductances of the human dopamine transporter: the actions of dopamine and psychostimulants. Sonders MS, et al. **J Neurosci** 1997 Feb 1;17(3):960–74
The role of growth hormone (GH), GH–receptor and GH–binding protein in reproduction and ovulation induction. Blumenfeld Z, et al.
J Pediatr Endocrinol Metab 1996 Mar–Apr;9(2):145–62 (82 ref.)
Nicotinic acid transport mediated by pH–dependent anion antiporter and proton cotransporter in rabbit intestinal brush–border membrane. Takanaga H, et al.
J Pharm Pharmacol 1996 Oct;48(10):1073–7
Uptake and release of [3H]formycin B via sodium–dependent nucleoside transporters in mouse leukemic L1210/MA27.1 cells. Borgland SL, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):347–53
Multispecific organic anion transporter is responsible for the biliary excretion of the camptothecin derivative irinotecan and its metabolites in rats. Chu XY, et al.
J Pharmacol Exp Ther 1997 Apr;281(1):304–14
Functional analysis of a chimeric mammalian peptide transporter derived from the intestinal and renal isoforms. Döring F, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):773–9
Stoichiometry and pH dependence of the rabbit proton–dependent oligopeptide transporter PepT1. Steel A, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):563–9
Molecular and cellular characterization of CRP1, a Drosophila chromatin decondensation protein. Crevel G, et al. **J Struct Biol** 1997 Feb;118(1):9–22
Tumor necrosis factor mediates impaired wound healing in chronic abdominal sepsis. Cooney R, et al. **J Trauma** 1997 Mar;42(3):415–20
Cyclophilin A–induced alterations of human immunodeficiency virus type 1 CA protein in vitro. Agresta BE, et al. **J Virol** 1997 Sep;71(9):6921–7
Poliovirus protein 2BC increases cytosolic free calcium concentrations. Aldabe R, et al. **J Virol** 1997 Aug; 71(8):6214–7
VBP and RelA regulate avian leukosis virus long terminal repeat–enhanced transcription in B cells. Curristin SM, et al. **J Virol** 1997 Aug;71(8):5972–81
Function and dysfunction of renal transport molecules: lessons from electrophysiology. Waldegger S, et al.
Kidney Blood Press Res 1996;19(3–4):155–9 (40 ref.)
Opposite paracrine effects of 5–HT and dopamine on Na(+)–Pi cotransport in opossum kidney cells. de Toledo FG, et al. **Kidney Int** 1997 Jul;52(1):152–6
Regulation of the myo–inositol and betaine cotransporters by tonicity. Handler JS, et al. **Kidney Int** 1996 Jun; 49(6):1682–3 (21 ref.)
The electroneutral Na(+)–(K+)–Cl– cotransport family. Hebert SC, et al. **Kidney Int** 1996 Jun;49(6):1638–41 (6 ref.)
Renal brush border membrane Na/Pi–cotransport: molecular aspects in PTH–dependent and dietary regulation. Murer H, et al. **Kidney Int** 1996 Jun;49(6):1769–73 (44 ref.)
Altered sodium–calcium exchange in afferent arterioles of the spontaneously hypertensive rat. Nelson LD, et al.
Kidney Int 1996 Dec;50(6):1889–96
Inactivation of cyclin–dependent kinase inhibitor genes and development of human acute leukemias. Ragione FD, et al. **Leuk Lymphoma** 1997 Mar;25(1–2):23–35 (90 ref.)
Inhibition of growth of human leukemia cell lines by retrovirally expressed wild–type p16INK4A. Gombart AF, et al. **Leukemia** 1997 Oct;11(10):1673–80
Antibodies against phospholipids other than cardiolipin: potential roles for both phospholipid and protein. Rauch J, et al. **Lupus** 1996 Oct;5(5):498–502 (62 ref.)
Dysregulation between TH1 and TH2 T cell subpopulations in the elderly. Cakman I, et al. **Mech Ageing Dev** 1996 Jun 25;87(3):197–209
Defect in export and synthesis of the periplasmic galactose receptor MglB in dnaK mutants of Escherichia coli, and decreased stability of the mglB mRNA. el Yaagoubi A, et al. **Microbiology** 1996 Sep;142 (Pt 9):2595–602
Restoration of responsiveness to phorbol ester by reconstitution of a functional Na/K/Cl cotransporter in cotransporter–deficient BALB/c 3T3 cells. Guo Y, et al. **Mol Carcinog** 1996 Sep;17(1):35–40
Binding site polarity and ligand affinity of homologous fatty acid–binding proteins from animals with different body temperatures. Londraville RL, et al. **Mol Cell Biochem** 1996 Jun 7;159(1):39–45
Characterization of reaper– and FADD–induced apoptosis in a lepidopteran cell line. Vucic D, et al.
Mol Cell Biol 1997 Feb;17(2):667–76
Heterodimeric interaction between retinoid X receptor alpha and orphan nuclear receptor OR1 reveals dimerization–induced activation as a novel mechanism of nuclear receptor activation. Wiebel FF, et al.
Mol Cell Biol 1997 Jul;17(7):3977–86
Maltose–binding protein interacts simultaneously and asymmetrically with both subunits of the Tar chemoreceptor. Gardina PJ, et al. **Mol Microbiol** 1997 Mar; 23(6):1181–91
Host–cell cyclophilin is important for the intracellular replication of Leishmania major. Hoerauf A, et al.
Mol Microbiol 1997 Apr;24(2):421–9
Molecular biology of glycinergic neurotransmission. Zafra F, et al. **Mol Neurobiol** 1997 Jun;14(3):117–42 (187 ref.)
Neurobiology of corticotropin releasing factor (CRF) receptors and CRF–binding protein: implications for the treatment of CNS disorders [see comments] Behan DP, et al. **Mol Psychiatry** 1996 Sep;1(4):265–77 (113 ref.). Comment in: Mol Psychiatry 1996 Sep;1(4):300–1.
RAIDD is a new 'death' adaptor molecule. Duan H, et al. **Nature** 1997 Jan 2;385(6611):86–9
Mice lacking mitochondrial uncoupling protein are cold–sensitive but not obese [see comments] Enerbäck S, et al. **Nature** 1997 May 1;387(6628):90–4. Comment in: Nature 1997 May 1;387(6628):27–8.
Inhibition of death receptor signals by cellular FLIP [see comments] Irmler M, et al. **Nature** 1997 Jul 10; 388(6638):190–5. Comment in: Nature 1997 Jul 10;388(6638):123, 125–6.
p47 is a cofactor for p97–mediated membrane fusion [see comments] Kondo H, et al. **Nature** 1997 Jul 3; 388(6637):75–8. Comment in: Nature 1997 Jul 3;388(6637):20–1.
Membrane fusion. Bridging the gap by AAA ATPases [news; comment] Rowe T, et al. **Nature** 1997 Jul 3;388(6637):20–1 . Comment on: Nature 1997 Jul 3;388(6637):75–8.
Efflux studies allow further characterisation of the noradrenaline and 5–hydroxytryptamine transporters in rat lungs. James KM, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 Jul; 356(1):126–33
Inward transport of 3H–MPP+ in freshly isolated rat hepatocytes: evidence for interaction with catecholamines. Martel F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep;354(3):305–11
GABA transporter heterogeneity: pharmacology and cellular localization. Borden LA. **Neurochem Int** 1996 Oct; 29(4):335–56 (110 ref.)
Sorting of GABA transporter proteins in polarized cells. Caplan MJ. **Neurochem Int** 1996 Oct;29(4):357–60 (19 ref.)
Anterior pituitary hypoplasia and dwarfism in mice lacking the dopamine transporter. Bossé R, et al. **Neuron** 1997 Jul; 19(1):127–38
Listening to neurotransmitter transporters. Lester HA, et al. **Neuron** 1996 Nov;17(5):807–10 (22 ref.)
Decreased platelet 3H–paroxetine binding in obsessive–compulsive patients. Marazziti D, et al.
Neuropsychobiology 1996;34(4):184–7
Cocaine and amphetamine elicit differential effects in rats with a unilateral injection of dopamine transporter antisense oligodeoxynucleotides. Silvia CP, et al. **Neuroscience** 1997 Feb;76(3):737–47
Mutual requirement of CDK4 and Myc in malignant transformation: evidence for cyclin D1/CDK4 and p16INK4A as upstream regulators of Myc. Haas K, et al. **Oncogene** 1997 Jul 10;15(2):179–92
Association of extended in vitro proliferative potential with loss of p16INK4 expression. Noble JR, et al. **Oncogene** 1996 Sep 19;13(6):1259–68
Anti–cell death activity promotes pulmonary metastasis of melanoma cells. Takaoka A, et al. **Oncogene** 1997 Jun 19; 14(24):2971–7
Contribution of the sodium–calcium exchanger to contractions in immature rabbit ventricular myocytes. Chin TK, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):480–5
Relations between heterogeneity of dopamine transporter binding and function and the behavioral pharmacology of cocaine. Katz JL, et al. **Pharmacol Biochem Behav** 1997 Jul;57(3):505–12 (45 ref.)
Diazepam binding inhibitor is a potent cholecystokinin–releasing peptide in the intestine [published erratum appears in Proc Natl Acad Sci U S A 1996 Nov 26;93(24):14214] Herzig KH, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7927–32
Neurotrophin regulation of ionic currents and cell size depends on cell context. Sherwood NT, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5917–22
A neurotransmitter transporter encoded by the Drosophila inebriated gene. Soehnge H, et al.
Proc Natl Acad Sci U S A 1996 Nov 12;93(23):13262–7
Role of the p21 cyclin–dependent kinase inhibitor in limiting intimal cell proliferation in response to arterial injury. Yang ZY, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):7905–10
Functions and regulation of the acid–labile subunit of the 150 K complex. Barreca A, et al.
Prog Growth Factor Res 1995;6(2–4):231–9
The canalicular conjugate export pump encoded by the cmrp/cmoat gene. Keppler D, et al. **Prog Liver Dis** 1996; 14:55–67 (66 ref.)
HB–GAM (heparin–binding growth–associated molecule) and heparin–type glycans in the development and plasticity of neuron–target contacts. Rauvala H, et al.
Prog Neurobiol 1997 Jun;52(2):127–44 (112 ref.)
Heart–type fatty acid binding protein – involvement in growth inhibition and differentiation. Börchers T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):77–84 (40 ref.)
Chaperone function of Hsp90–associated proteins [see comments] Bose S, et al. **Science** 1996 Dec 6; 274(5293):1715–7. Comment in: Science 1996 Dec 6;274(5293):1613–4.
A cyclophilin function in Hsp90–dependent signal transduction [see comments] Duina AA, et al. **Science** 1996 Dec 6;274(5293):1713–5. Comment in: Science 1996 Dec 6;274(5293):1613–4.
Molecular chaperone machines: chaperone activities of the cyclophilin Cyp–40 and the steroid aporeceptor–associated protein p23 [see comments] Freeman BC, et al. **Science** 1996 Dec 6;274(5293):1718–20. Comment in: Science 1996 Dec 6;274(5293):1613–4.
Uncoupling of obesity from insulin resistance through a targeted mutation in aP2, the adipocyte fatty acid binding protein. Hotamisligil GS, et al. **Science** 1996 Nov 22; 274(5291):1377–9
Evidence for a role of CRM1 in signal–mediated nuclear protein export. Ossareh–Nazari B, et al. **Science** 1997 Oct 3;278(5335):141–4
Expanding the eukaryote's cast of chaperones [news; comment] Pennisi E. **Science** 1996 Dec 6;274(5293):1613–4 . Comment on: Science 1996 Dec 6;274(5293):1713–5. Comment on: Science 1996 Dec 6;274(5293):1715–7. Comment on: Science 1996 Dec 6;274(5293):1718–20.
Secretion of organic anions by hepatocytes: involvement of homologues of the multidrug resistance protein. Müller M, et al. **Semin Liver Dis** 1996 May;16(2):211–20 (137 ref.)
Thrombin, its receptor and protease nexin I, its potent serpin, in the nervous system. Festoff BW, et al.
Semin Thromb Hemost 1996;22(3):267–71 (47 ref.)
Midkine and secondary neurulation. Griffith M.
Teratology 1997 Apr;55(4):213–23
Regulation of the initiation of coronavirus JHM infection in primary oligodendrocytes and L–2 fibroblasts. Kalicharran K, et al. **Virology** 1996 Nov 1;225(1):33–43
Strongly reduced phage Qbeta replication, but normal phage MS2 replication in an Escherichia coli K12 mutant with inactivated Qbeta host factor (hfq) gene. Su Q, et al.
Virology 1997 Jan 6;227(1):211–4
Analysis of the distribution of glycine and GABA in amacrine cells of the developing rabbit retina: a comparison with the ontogeny of a functional GABA transport system in retinal neurons. Crook DK, et al. **Vis Neurosci** 1997 Jul–Aug;14(4):751–63
The electrogenic Na/HCO3 cotransporter. Boron WF, et al. **Wien Klin Wochenschr** 1997 Jun 27;109(12–13):445–56 (70 ref.)
Membrane traffic and control of proximal tubular sodium phosphate (Na/Pi)–cotransport. Murer H, et al.
Wien Klin Wochenschr 1997 Jun 27;109(12–13):441–4
Functional conservation of cytosolic proteins required for endosomal vesicle fusion. Woodman PG, et al. **Yeast** 1996 Sep 30;12(12):1251–62
[Decreased transport of bile acids and organic anions as the etiology of cholestasis in endotoxinemia] Bolder U, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:571–7 (Eng. Abstr.) **(Ger)**
[F–actin cappers] Maruta H. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1442–7 (29 ref.) (Eng. Abstr.) **(Jpn)**
[Cdk inhibiting proteins] Tomoda K, et al.
Gan To Kagaku Ryoho 1997 Sep;24(11):1407–13 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Diseases caused by disorders of membrane transport: an overview] Kuwahara M, et al. **Nippon Rinsho** 1996 Mar; 54(3):581–5 (20 ref.) (Eng. Abstr.) **(Jpn)**
[PotD protein: three–dimensional structure and function] Sugiyama S, et al. **Seikagaku** 1997 Feb;69(2):113–9 (16 ref.) **(Jpn)**
[Advances in the pathogeny of obesity: the physiology of leptin] Palacios Garcia N, et al. **Rev Clin Esp** 1997 May; 197(5):351–7 **(Spa)**

SECRETION

Hormonal modulation of secretion of immunoreactive riboflavin carrier protein by adult rat Leydig cells in vitro. Subramanian S, et al. **Indian J Biochem Biophys** 1996 Aug; 33(4):274–80
Secretion of a novel, developmentally regulated fatty acid–binding protein into the perivitelline fluid of the parasitic nematode, Ascaris suum. Mei B, et al.
J Biol Chem 1997 Apr 11;272(15):9933–41
Human liposarcoma cell line, SW872, secretes cholesteryl ester transfer protein in response to cholesterol. Richardson MA, et al. **J Lipid Res** 1996 May;37(5):1162–6
Prevention of activity–dependent neuronal death: vasoactive intestinal polypeptide stimulates astrocytes to secrete the thrombin–inhibiting neurotrophic serpin, protease nexin I. Festoff BW, et al. **J Neurobiol** 1996 Jun;30(2):255–66
Comparison of in vitro effects of the pure antiandrogens OH–flutamide, Casodex, and nilutamide on

androgen-sensitive parameters. Simard J, et al. **Urology** 1997 Apr;49(4):580-6; discussion 586-9

THERAPEUTIC USE

A derivative of cationic antimicrobial protein attenuates lung injury by suppressing cell adhesion. Tasaka S, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):738-44

Antiendotoxin activity of cationic peptide antimicrobial agents. Gough M, et al. **Infect Immun** 1996 Dec; 64(12):4922-7

Down-regulation of poison ivy/oak-induced contact sensitivity by treatment with a class II MHC binding peptide:hapten conjugate. Gelber C, et al. **J Immunol** 1997 Mar 1;158(5):2425-34

TOXICITY

Modulation of soluble and membrane-bound TNF-induced phenotypic and functional changes of human brain microvascular endothelial cells by recombinant TNF binding protein I. Lou J, et al. **J Neuroimmunol** 1997 Jul; 77(1):107-15

ULTRASTRUCTURE

Crystal structure of human cyclophilin A bound to the amino-terminal domain of HIV-1 capsid. Gamble TR, et al. **Cell** 1996 Dec 27;87(7):1285-94

Structure and conformational changes in NSF and its membrane receptor complexes visualized by quick-freeze/deep-etch electron microscopy. Hanson PI, et al. **Cell** 1997 Aug 8;90(3):523-35

Synaptogenesis in the rat retina: subcellular localization of glycine receptors, GABA(A) receptors, and the anchoring protein gephyrin. Sassoè-Pognetto M, et al. **J Comp Neurol** 1997 May 5;381(2):158-74

[Electron microscopy for the studies of membrane transport proteins] Katayama E. **Nippon Rinsho** 1996 Mar; 54(3):718-24 (22 ref.) (Eng. Abstr.) **(Jpn)**

URINE

HPLC screening method for cystinuria. Livesey JF, et al. **Clin Chem** 1996 Oct;42(10):1714-6

MP84 expression in the urine specimens of acute rejection renal transplant recipients. Mukhtar A. **Ren Fail** 1996 Nov; 18(6):931-5

CARRIER STATE

Prospective study of hepatocellular carcinoma and liver cirrhosis in asymptomatic chronic hepatitis B virus carriers. Yu MW, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1039-47

Exacerbation of hepatitis in hepatitis B carriers following chemotherapy for haematological malignancies. Wong GC, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):500-3

Subtyping of human T-lymphotropic virus type I by amplification of long terminal repeat sequences and restriction fragment length polymorphism analysis in carriers with multiple transfusions. Lin MT, et al. **Ann Hematol** 1996 Sep;73(3):127-34

Detection of alpha-fetoprotein and hepatitis-B surface antigen in blood spotted on filter paper: use as a screen for hepatocellular carcinoma in Alaska Natives. Parkinson AJ, et al. **Arctic Med Res** 1996 Jul;55(3):123-8

The cellular immune status of HBsAg-positive carriers in Malaysia. Choong ML, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):19-24

Hepatitis B virus markers among the prostitutes of Dhaka. Sattar H, et al. **Bangladesh Med Res Counc Bull** 1996 Apr; 22(1):8-11

Assessment of the zinc turbidity test and the use of risk factors in detecting asymptomatic hepatitis C virus carriers: population based study. Nakajima K, et al. **BMJ** 1997 Apr 19;314(7088):1169

Severe hepatitis related to chemotherapy in hepatitis B virus carriers with hematologic malignancies. Survey in Japan, 1987-1991. Nakamura Y, et al. **Cancer** 1996 Nov 15; 78(10):2210-5

Influence of carriage of pneumococci in the nasopharynx of children on pneumococcal antigen detection [letter] Boersma WG, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):426-8

Staphylococcus aureus nasal carriage as a marker for subsequent staphylococcal infections in intensive care unit patients. Corbella X, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):351-7

Transmission of methicillin-resistant staphylococcus aureus within a household [letter] Wagenvoort JH, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):399-400

Surface gene mutants of hepatitis B virus in infants who develop acute or chronic infections despite immunoprophylaxis. Hsu HY, et al. **Hepatology** 1997 Sep; 26(3):786-91

Hepatitis B virus carriers without precore mutations in hepatitis B e antigen-negative stage show more severe liver damage. Lindh M, et al. **Hepatology** 1996 Sep;24(3):494-501

Difference of virus populations in HIV carriers in relation to AZT treatment. Sakamoto T, et al. **Int J STD AIDS** 1997 Jun;8(6):378-81

Hepatitis B virus carrier status linked to autoimmune hepatitis. Murakami C, et al. **Intern Med** 1996 Jun; 35(6):468-71

A human T-cell lymphotropic virus type-I carrier with chronic renal failure, aplastic anemia, myelopathy, uveitis, Sjögren's syndrome and panniculitis [see comments] Osato M, et al. **Intern Med** 1996 Sep;35(9):742-5. Comment in: Intern Med 1996 Sep;35(9):677-8.

Widespread presence of cytomegalovirus DNA in tissues of healthy trauma victims. Hendrix RM, et al. **J Clin Pathol** 1997 Jan;50(1):59-63

Bullous pemphigoid in an HB virus carrier: interaction between corticosteroids and HB virus. Inadomi T, et al. **J Dermatol** 1997 Mar;24(3):179-83

Effect of aflatoxin metabolism and DNA adduct formation on hepatocellular carcinoma among chronic hepatitis B carriers in Taiwan. Yu MW, et al. **J Hepatol** 1997 Aug; 27(2):320-30

Long-term methicillin-resistant Staphylococcus aureus (MRSA) carriage and tagging of patient records [letter] Morgan MG, et al. **J Hosp Infect** 1997 May;36(1):78-80

Risk factors for faecal carriage of Klebsiella pneumoniae producing extended spectrum beta-lactamase (ESBL-KP) in the intensive care unit. Peña C, et al. **J Hosp Infect** 1997 Jan;35(1):9-16

Detection of hepatitis B surface gene mutation in carrier children with or without immunoprophylaxis at birth. Lee PI, et al. **J Infect Dis** 1997 Aug;176(2):427-30

Demographic, ethnic, and geographic differences between human T cell lymphotropic virus (HTLV) type I-seropositive carriers and persons with HTLV-I Gag-indeterminate Western blots in Central Africa. Mauclère P, et al. **J Infect Dis** 1997 Aug;176(2):505-9

Recombinant Interferons beta and gamma have a higher antiviral activity than interferon-alpha in coxsackievirus B3-infected carrier state cultures of human myocardial fibroblasts. Heim A, et al. **J Interferon Cytokine Res** 1996 Apr;16(4):283-7

Oral carriage of Helicobacter pylori: a review. Madinier IM, et al. **J Periodontol** 1997 Jan;68(1):2-6 (55 ref.)

Hepatitis C virus infection in family members of chronic carriers. De Mercato R, et al. **Minerva Med** 1996 Jul-Aug; 87(7-8):335-7

Transmission of L. infantum by blood donors [letter] Kubar J, et al. **Nat Med** 1997 Apr;3(4):368

Persistence of penicillin G benzathine in pregnant group B streptococcus carriers. Weeks JW, et al. **Obstet Gynecol** 1997 Aug;90(2):240-3

In vitro cultivation of Babesia equi: detection of carrier animals and isolation of parasites. Zweygarth E, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):51-6

Oral endotoxin in healthy adults [letter] Samaranayake LP. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):113-4

International summit on cutaneous antifungal therapy, focus on tinea capitis, Boston, Massachusetts, November 11-13, 1994. Elewski BE, et al. **Pediatr Dermatol** 1996 Jan-Feb; 13(1):69-77 (35 ref.)

Vancomycin-resistant Enterococcus faecium on a pediatric oncology ward: duration of stool shedding and incidence of clinical infection [see comments] Henning KJ, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):848-54. Comment in: Pediatr Infect Dis J 1996 Oct;15(10):845-7.

Susceptibility of pneumococcal carriage isolates to penicillin provides a conservative estimate of susceptibility of invasive pneumococci. Lehmann D, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):297-305

Nasopharyngeal carriage of pneumococci in Gambian children and in their families. Lloyd-Evans N, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):866-71

Nasal carriage of Staph. aureus in peritonitis and exit-site infections [letter; comment] De Vecchi AF, et al. **Perit Dial Int** 1997 Mar-Apr;17(2):205-7. Comment on: Perit Dial Int 1996 Jul-Aug;16(4):352-6.

The current state of the prevention of HBV infection, the carrier state and hepatocellular carcinoma. Blumberg BS. **Res Virol** 1997 Mar-Apr;148(2):91-4

Prospects for active immunotherapies for hepatitis B virus chronic carriers. Michel ML. **Res Virol** 1997 Mar-Apr; 148(2):95-9

Norfloxacin and Salmonella excretion in acute gastroenteritis--a 6-month follow-up study. Pitkäjärvi T, et al. **Scand J Infect Dis** 1996;28(2):177-80

Amicrofilaraemic carriers of adult Wuchereria bancrofti. Dreyer G, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun; 90(3):288-9

Infective, chronic carriers of hepatitis C virus among blood donors with no history of clinical hepatitis. Larsen J, et al. **Transfus Med** 1991 Mar;1(1):13-6

Clear evidence of the existence of healthy carriers of hepatitis C virus among renal transplant recipients [letter] Haem J, et al. **Transplantation** 1996 Sep 15;62(5):699-700

An effective peptide vaccine to eliminate bovine leukaemia virus (BLV) infected cells in carrier sheep. Kabeya H, et al. **Vaccine** 1996 Aug;14(12):1118-22

A clearer distinction between HIV-1 paired isolates from peripheral blood mononuclear cells of asymptomatic carriers with and without CD8+ T-cells at nef rather than env V3 loci. Zhong Q, et al. **Vaccine** 1997 Apr; 15(5):497-510

[Higher expression levels of alternatively spliced pX mRNA in human T lymphotropic virus type I (HTLV-I) asymptomatic carriers positive for antibodies to p40tax protein] Hirata M. **Fukuoka Igaku Zasshi** 1996 Jan; 87(1):23-34 (Eng. Abstr.) **(Jpn)**

[Basic and clinical aspects of hepatitis virus carriers] Shimoyama R, et al. **Hokkaido Igaku Zasshi** 1996 Jul; 71(4):427-48 (67 ref.) (Eng. Abstr.) **(Jpn)**

[Interstitial pneumonia in an HTLV-I carrier] Shimizu K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb; 35(2):184-8 (Eng. Abstr.) **(Jpn)**

[A case of post-kidney transplantation liver failure with hepatitis B carrier state] Aizawa K, et al. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1045-7 **(Jpn)**

[A case of tabes dorsalis observed in an HTLV-1 carrier] Nagata A, et al. **Rinsho Shinkeigaku** 1997 Apr;37(4):341-3 (Eng. Abstr.) **(Jpn)**

[Neonatal screening of hemoglobinopathies in a population residing in Portugal] Peres MJ, et al. **Acta Med Port** 1996 Apr-Jun;9(4-6):135-9 (Eng. Abstr.) **(Por)**

[Health personnel as a source of infection in a hospital outbreak of methicillin-resistant Staphylococcus aureus (letter)] Rodríguez G, et al. **Enferm Infecc Microbiol Clin** 1997 Mar;15(3):173-4 **(Spa)**

BLOOD

Serum ferritin levels in carriers of beta-thalassaemia trait [letter; comment] Madan N, et al. **Acta Haematol** 1996; 96(4):267. Comment on: Acta Haematol 1995;94(1):7-9.

Interferon-alpha 2b treatment in hepatitis B carriers. Effect on hepatitis B virus DNA levels in children infected with different genotypes. Sangfelt P, et al. **Acta Paediatr** 1997 Feb;86(2):135-7

Serum dehydroepiandrosterone and DHEA-sulfate in patients with adult T-cell leukemia and human T-lymphotropic virus type I carriers. Uozumi K, et al. **Am J Hematol** 1996 Nov;53(3):165-8

Impairment of the metabolism of dipyrone in asymptomatic carriers of the hepatitis B virus. Levy M, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):6-14

[Cryoglobulinemia associated with hepatitis C-related chronic liver disease in Japan] Tomoe M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):241-8 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Canine leishmaniasis: identification of asymptomatic carriers by polymerase chain reaction and immunoblotting. Berrahal F, et al. **Am J Trop Med Hyg** 1996 Sep;55(3):273-7

Effective detection of active HCV infection: HCV RNA carrier state in a context free of hepatitis symptoms. Arapinis C, et al. **Clin Chim Acta** 1997 Feb 3;258(1):91-104

Carriage of penicillin-resistant pneumococci in a military population in Washington, DC: risk factors and correlation with clinical isolates. Fairchok MP, et al. **Clin Infect Dis** 1996 Jun;22(6):966-72

Prenatal screening for hepatitis B virus. Khan NR, et al. **Int J Gynaecol Obstet** 1996 Oct;55(1):79-80

Human T-cell lymphotropic virus type I (HTLV-I) carrier with clinical manifestations characteristic of diffuse panbronchiolitis. Kikuchi T, et al. **Intern Med** 1996 Apr; 35(4):305-9

Relative functional affinity of specific anti-core IgG in different categories of hepatitis B virus infection. Thomas HI. **J Med Virol** 1997 Mar;51(3):189-97

Incidence of asymptomatic carriage of potentially pathogenic respiratory organisms among preschool Pretoria children [letter] [published erratum appears in S Afr Med J 1996 Oct;86(10):1302] Marcus L, et al. **S Afr Med J** 1996 Sep; 86(9):1132, 1134

Malaria: even more chronic in nature than previously thought; evidence for subpatent parasitaemia detectable by the polymerase chain reaction. Bottius E, et al. **Trans R Soc Trop Med Hyg** 1996 Jan-Feb;90(1):15-9

Asymptomatic carriers of Babesia canis in an enzootic area. Wlosniewski A, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jan;20(1):75-86 (Eng. Abstr.) **(Fre)**

[Changes in the immunocompetent cell system of the peripheral blood in HIV carriage] Karabanov VR, et al. **Lik Sprava** 1995 Mar-Apr;(3-4):112-5 (Eng. Abstr.) **(Rus)**

[The construction of a diagnostic model for the differentiation of resident and transient staphylococcal microflora in bacterial carriage] Bukharin OV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May-Jun; (3):68-70 (Eng. Abstr.) **(Rus)**

[A case of chronic active viral hepatitis B combined with HIV carriage, malaria and syphilis] Shkurba AV, et al. **Lik Sprava** 1996 Oct-Dec;(10-12):158-9 **(Ukr)**

DRUG THERAPY

Cost-effectiveness analysis of treatment of E. histolytica/E. dispar cyst carriers. Garduño-Espinosa J, et al. **Arch Med Res** 1997;28 Spec No:293-4

Lamivudine is effective in suppressing hepatitis B virus DNA in Chinese hepatitis B surface antigen carriers: a placebo-controlled trial. Lai CL, et al. **Hepatology** 1997 Jan;25(1):241-4

Nasal and cutaneous carriage of Staphylococcus aureus in hemodialysis patients: the effect of nasal mupirocin. Boelaert JR, et al. **Infect Control Hosp Epidemiol** 1996 Dec; 17(12):809-11

Elimination of nasal carriage of Staphylococcus aureus in

hemodialysis patients. Kluytmans JA, et al. **Infect Control Hosp Epidemiol** 1996 Dec;17(12):793–7

Reduction of surgical-site infections in cardiothoracic surgery by elimination of nasal carriage of Staphylococcus aureus [see comments] Kluytmans JA, et al. **Infect Control Hosp Epidemiol** 1996 Dec;17(12):780–5. Comment in: Infect Control Hosp Epidemiol 1996 Dec;17(12):775–9.

Cost-effectiveness of perioperative mupirocin nasal ointment in cardiothoracic surgery [see comments] VandenBergh MF, et al. **Infect Control Hosp Epidemiol** 1996 Dec; 17(12):786–92. Comment in: Infect Control Hosp Epidemiol 1996 Dec;17(12):775–9.

Strategies for the management of healthcare staff colonized with epidemic methicillin-resistant Staphylococcus aureus. Cox RA, et al. **J Hosp Infect** 1997 Feb;35(2):117–27

Mupirocin resistance and methicillin-resistant Staphylococcus aureus (MRSA). Eltringham I. **J Hosp Infect** 1997 Jan;35(1):1–8 (44 ref.)

Management of pharyngeal carriers of group A streptococcal organisms [letter; comment] Perry RF, et al. **JAMA** 1997 Apr 16;277(15):1203–4. Comment on: JAMA 1997 Jan 1;277(1):38–43.

EPIDEMIOLOGY

Epidemiologic survey of Blastocystis hominis infection in Japan. Horiki N, et al. **Am J Trop Med Hyg** 1997 Apr; 56(4):370–4

Hepatitis B virus carriers in the treatment of malignant lymphoma: an epidemiological study in Japan. Kumagai K, et al. **Ann Oncol** 1997;8 Suppl 1:107–9

Carriage of antibiotic-resistant Streptococcus pneumoniae by children in eastern and central Europe--a multicenter study with use of standardized methods. Appelbaum PC, et al. **Clin Infect Dis** 1996 Oct;23(4):712–7

Asymptomatic oral carriage of Candida albicans in patients with HIV infection. Fong IW, et al. **Clin Invest Med** 1997 Apr;20(2):85–93

Asymptomatic rotavirus infection within Benin City urban community, Nigeria. Omoigberale AI, et al. **East Afr Med J** 1996 Oct;73(10):688–90

Epidemiological patterns of hepatitis B virus (HBV) in highly endemic areas. Edmunds WJ, et al. **Epidemiol Infect** 1996 Oct;117(2):313–25

Evaluation of HBsAg carrier rate in acute viral hepatitis and high risk individuals using RPHA and ELISA. Korgaonkar A, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):277–80

Prevalence of hepatitis B surface antigen in pregnant Lebanese women. Nabulsi MM, et al. **Int J Gynaecol Obstet** 1997 Aug;58(2):243–4

Prevalence of antibodies to hepatitis C among recently treated leprosy patients in Senegal parallels those in normal populations [letter] Renaudineau Y, et al. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4):453–5

Epidemiology of meningococcal carrier state amongst recruits of a military training centre. Jha D, et al. **J Commun Dis** 1995 Dec;27(4):250–5

Intestinal parasites among food-handlers in Qualyobia Governorate, with reference to the pathogenic parasite blastocystis hominis. Sadek Y, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):471–8

Meningococcal carriage: prevalence and sex-related risk factors. Tayal SC, et al. **J Infect** 1997 Mar;34(2):101–5

Nasopharyngeal colonization in southern Israel with antibiotic-resistant pneumococci during the first 2 years of life: relation to serotypes likely to be included in pneumococcal conjugate vaccines. Dagan R, et al. **J Infect Dis** 1996 Dec;174(6):1352–5

From the Centers for Disease Control and Prevention. Antibiotic resistance among nasopharyngeal isolates of Streptococcus pneumoniae and Haemophilus influenzae--Bangui, 1995. **JAMA** 1997 Feb 26;277(8):621

An outbreak of invasive group A streptococcal disease associated with high carriage rates of the invasive clone among school-aged children [see comments] Cockerill FR 3rd, et al. **JAMA** 1997 Jan 1;277(1):38–43. Comment in: JAMA 1997 Apr 16;277(15):1203–4.

Prevalence of hepatitis B surface antigenaemia in healthy children. Abbas KA, et al. **JPMA J Pak Med Assoc** 1997 Mar;47(3):93–4

Hepatitis B and health care workers [letter; comment] Noone PA, et al. **Lancet** 1997 Jul 19;350(9072):219. Comment on: Lancet 1997 May 10;349(9062):1339–40.

Prevalence of hepatitis G virus in Queensland blood donors. Moaven LD, et al. **Med J Aust** 1996 Oct 7;165(7):369–71

Antibiotic resistance among nasopharyngeal isolates of Streptococcus pneumoniae and Haemophilus influenzae--Bangui, Central African Republic, 1995 [published erratum appears in MMWR Morb Mortal Wkly Rep 1997 Apr 18;46(15):335] **MMWR Morb Mortal Wkly Rep** 1997 Jan 24;46(3):62–4

Hepatitis B infection in households of HBsAg positive New Zealand children. Martin AR, et al. **N Z Med J** 1996 Dec 13;109(1035):463–5

Risk factors for nasopharyngeal carriage of resistant Streptococcus pneumoniae and detection of a multiply resistant clone among children living in the Yukon-Kuskokwim Delta region of Alaska. Ussery XT, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):986–92

Epidemic patterns and carriage of Chlamydia pneumoniae in Norway. Berdal BP, et al. **Scand J Infect Dis Suppl** 1997; 104:22–5 (16 ref.)

A non-invasive assessment of hepatitis B virus carrier status using saliva samples. Richards AL, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):80–4

Seroepidemiology of hepatitis B, C and delta viruses in Tunisia. Triki H, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):11–4

[A genetic epidemiologic study on HBsAg chronic carriers] Wang WJ, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):148–51 (Eng. Abstr.) **(Chi)**

[Asymptomatic carriers of vancomycin-resistant enterococci in France. Study in an ambulatory population of young subjects (letter)] Cavallo JD, et al. **Presse Med** 1997 May 24;26(17):807 **(Fre)**

[Hepatitis B prevention at a school for mentally handicapped patients] Rohling I. **Gesundheitswesen** 1996 Aug–Sep; 58(8–9):454–8 (Eng. Abstr.) **(Ger)**

[Study on the positive rate of infectious diseases in in-patients at the department of oral surgery] Komori T, et al. **Kokubyo Gakkai Zasshi** 1996 Sep;63(3):478–81 (Eng. Abstr.) **(Jpn)**

[Frequency of hepatitis GB virus C in patients on maintenance hemodialysis] Shimizu M, et al. **Nippon Rinsho** 1997 Mar;55(3):545–8 (13 ref.) (Eng. Abstr.) **(Jpn)**

[HCV and HBV seropositivity in university students of the State of Nuevo Leon, Mexico] Flores-Castañeda MS, et al. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4):327–31 (Eng. Abstr.) **(Spa)**

[Prevalence of Staphylococcus aureus among food handlers from a metropolitan university in Chile] Soto A, et al. **Rev Med Chil** 1996 Sep;124(9):1142–6 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Hepatitis B immunisation rates among infants in ethnic groups with high prevalences of hepatitis B surface antigen carriers. Oman KM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):293–6

IMMUNOLOGY

Western blot analysis of the reactivity between envelope proteins of hepatitis B viruses from Brazilian carriers and antibodies raised against recombinant hepatitis B vaccines. De Castro L, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):251–8

Neutralization of human immunodeficiency virus type 1 (HIV-1) with antibody from carriers' plasma against HIV-1 protein p17. Kageyama S, et al. **Acta Virol** 1996 Sep;40(4):195–200

Long-term survivors with continuously high levels of HIV type 1 [letter] Rump JA, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):757–8

Serologic characterization of Entamoeba histolytica asymptomatic carriers from a community of Puebla state, Mexico. Sánchez-Guillén MC, et al. **Arch Med Res** 1997; 28 Spec No:322–4

Frequency of HLA in adult E.histolytica/E.dispar cyst passer population [published erratum appears in Arch Med Res 1997 Summer;28(2):313] Valdez-Martínez E, et al. **Arch Med Res** 1997;28 Spec No:248–9

Association of HTLV-I with autoimmune thyroiditis in patients with adult T-cell leukaemia (ATL) and in HTLV-I carriers. Akamine H, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):461–6

Invasion, control and persistence of Leishmania parasites. Bogdan C, et al. **Curr Opin Immunol** 1996 Aug;8(4):517–25 (64 ref.)

Immunity to Lyme disease: protection, pathology and persistence. Seiler KP, et al. **Curr Opin Immunol** 1996 Aug; 8(4):503–9 (93 ref.)

Pathogenesis of chronic liver disease in patients with chronic hepatitis B virus infection without serum HBeAg. Mangia A, et al. **Dig Dis Sci** 1996 Dec;41(12):2447–52

Conjugate vaccines and the carriage of Haemophilus influenzae type b. Barbour ML. **Emerg Infect Dis** 1996 Jul–Sep;2(3):176–82 (55 ref.)

Isotype-specific antibody responses to foot-and-mouth disease virus in sera and secretions of 'carrier' and 'non-carrier' cattle. Salt JS, et al. **Epidemiol Infect** 1996 Oct;117(2):349–60

Serum bactericidal activity in a secondary school population following an outbreak of meningococcal disease: effects of carriage and secretor status. Zorgani AA, et al. **FEMS Immunol Med Microbiol** 1996 Jun;14(2–3):73–81

Humoral and cellular immune responses to hepatitis B vaccination in hepatitis B surface antigen-carrier children who cleared serum-hepatitis B surface antigen. Hsu HY, et al. **Hepatology** 1996 Dec;24(6):1355–60

Increased production of interferon gamma but not interleukin 4 in human T-lymphotropic virus type I carriers. Shimamoto Y, et al. **Int J Hematol** 1996 Aug;64(2):111–8

Increased expression of interleukin-2 receptor alpha on peripheral blood mononuclear cells in HTLV-I tax/rex mRNA-positive asymptomatic carriers. Okayama A, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):70–5

Increased frequency of HLA DR13 in hepatitis C virus carriers with persistently normal ALT levels. Kuzushita N, et al. **J Med Virol** 1996 Jan;48(1):1–7

Functional implications of hepatitis B surface antigen (HBsAg) in the T cells of chronic HBV carriers. Nagaraju K, et al. **J Viral Hepat** 1997 Jul;4(4):221–30

Hierarchy of Epstein-Barr virus-specific cytotoxic T-cell responses in individuals carrying different subtypes of an HLA allele: implications for epitope-based antiviral vaccines. Khanna R, et al. **J Virol** 1997 Oct;71(10):7429–35

Human CD4+ T-cell response to hepatitis delta virus: identification of multiple epitopes and characterization of T-helper cytokine profiles. Nisini R, et al. **J Virol** 1997 Mar;71(3):2241–51

Natural history of hepatitis B surface antigen mutants in children [letter] [published erratum appears in Lancet 1997 Apr 12;349(9058):1106] Oon CJ, et al. **Lancet** 1996 Nov 30;348(9040):1524

False positive detection of group A Streptococcus antigen resulting from cross-reacting Streptococcus intermedius (Streptococcus milleri group). Rubin LG, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):715–7

Serological profiles of hepatitis B carrier patients in Singapore with special reference to the frequency and significance of concurrent presence of HBsAg and anti-HBs. Wang YM, et al. **Singapore Med J** 1996 Apr; 37(2):150–2

Toxoplasma infection in healthy persons and in patients with HIV or ocular disease. Wongkamchai S, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):655–8

T cell hyperreactivity to IL-6 in chronic nonviremic HBV carriers despite normal IL-6 receptor or gp130 expression. Baroja ML, et al. **Viral Immunol** 1996;9(3):187–94

Peptide-specific CTL induction in HBV-seropositive PBMC by stimulation with peptides in vitro: novel epitopes identified from chronic carriers. Lee HG, et al. **Virus Res** 1997 Aug;50(2):185–94

[Does a healthy carrier of hepatitis C exist?] Payen JL, et al. **Gastroenterol Clin Biol** 1996;20(6–7):531–4 (37 ref.) **(Fre)**

[Anti-idiotypic antibodies against antibodies to HBsAg and against antibodies to pre-S1 and pre-S2 fragments of HBV in patients with chronic HBs antigenemia] Jagielski P, et al. **Med Dosw Mikrobiol** 1996;48(1–2):79–85 (Eng. Abstr.) **(Pol)**

[Immunological markers in patients with a history of viral hepatitis B and D and HBsAg carriers] Leibenzon AS. **Lik Sprava** 1995 Mar–Apr;(3–4):107–9 **(Rus)**

[The lymphocyte phenotype of patients with different forms of diphtheritic infection and of bacterial carriers] Iushchuk ND, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul–Aug;(4):65–70 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

A prospective study of the impact of community-based azithromycin treatment of trachoma on carriage and resistance of Streptococcus pneumoniae. Leach AJ, et al. **Clin Infect Dis** 1997 Mar;24(3):356–62

Epidemiology of an unusually prolonged outbreak of typhoid fever in Terrassa, Spain. Xercavins M, et al. **Clin Infect Dis** 1997 Mar;24(3):506–10

Nasal carriage of Staphylococcus aureus: epidemiology, underlying mechanisms, and associated risks. Kluytmans J, et al. **Clin Microbiol Rev** 1997 Jul;10(3):505–20 (218 ref.)

Human carriage of Yersinia species and incidence in foods. Greenwood MH. **Contrib Microbiol Immunol** 1995;13:74–6

Colonization with antibiotic-resistant gram-negative organisms in a pediatric intensive care unit. Toltzis P, et al. **Crit Care Med** 1997 Mar;25(3):538–44

Risk factors for Neisseria meningitidis carriage in a school during a community outbreak of meningococcal infection. Davies AL, et al. **Epidemiol Infect** 1996 Oct;117(2):259–66

Antimicrobial susceptibility of Streptococcus pneumoniae isolated from pediatric carriers in Spain. García-de-Lomas J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):11–3

Prevalence and antifungal susceptibility of vaginal yeasts in outpatients attending a gynecological center in Ancona, Italy. Arzeni D, et al. **Eur J Epidemiol** 1997 Jun; 13(4):447–50

Sequential antibiotic therapy for acne promotes the carriage of resistant staphylococci on the skin of contacts. Miller YW, et al. **J Antimicrob Chemother** 1996 Nov;38(5):829–37

Frequency of isolation of Staphylococcus intermedius from humans. Mahoudeau I, et al. **J Clin Microbiol** 1997 Aug; 35(8):2153–4

Molecular epidemiology of Streptococcus pyogenes in an area where acute pharyngotonsillitis is endemic. Nguyen L, et al. **J Clin Microbiol** 1997 Aug;35(8):2111–4

Staff carriage of methicillin-resistant Staphylococcus aureus (EMRSA 15) and the home environment: a case report. Allen KD, et al. **J Hosp Infect** 1997 Apr;35(4):307–11

Preoperative bacterial colonization and its influence on postoperative wound infections in plastic surgery. Andenaes K, et al. **J Hosp Infect** 1996 Dec;34(4):291–9

Eradication of throat carriage of methicillin-resistant Staphylococcus aureus [letter; comment] Balfour A, et al. **J Hosp Infect** 1997 Apr;35(4):320–1. Comment on: J Hosp Infect 1996 Nov;34(3):205–10.

Strategies for the management of healthcare staff colonized with epidemic methicillin-resistant Staphylococcus aureus. Cox RA, et al. **J Hosp Infect** 1997 Feb;35(2):117–27

Secondary carriage with multi-resistant Acinetobacter baumannii and Klebsiella pneumoniae in an adult ICU population: relationship with nosocomial infections and mortality. Garrouste-Orgeas M, et al. **J Hosp Infect** 1996

Dec;34(4):279–89

Carriage of Staphylococcus aureus in the elderly. Parnaby RM, et al. **J Hosp Infect** 1996 Jul;33(3):201–6

Vancomycin–resistant gram–positive cocci: risk factors for faecal carriage. Rao GG, et al. **J Hosp Infect** 1997 Jan; 35(1):63–9

Eradication of the long–term carriage of methicillin–resistant Staphylococcus aureus in patients wearing dentures: a follow–up of 10 patients. Rossi T, et al. **J Hosp Infect** 1996 Dec;34(4):311–20

How to classify infections in intensive care units—the carrier state, a criterion whose time has come? van Saene HK, et al. **J Hosp Infect** 1996 May;33(1):1–12 (32 ref.)

Staphylococcus aureus carriage and infections among patients in four haemo– and peritoneal–dialysis centres in Denmark. The Danish Study Group of Peritonitis in Dialysis (DASPID). Zimakoff J, et al. **J Hosp Infect** 1996 Aug; 33(4):289–300

Marked inhibition of the intracellular multiplication of Legionella pneumophila in monocytes isolated from carriers of human T lymphotrophic virus type I. Funai N, et al. **J Leukoc Biol** 1997 Feb;61(2):133–40

Moraxella (Branhamella) catarrhalis—clinical and molecular aspects of a rediscovered pathogen. Enright MC, et al. **J Med Microbiol** 1997 May;46(5):360–71 (129 ref.)

Enterotoxin production by Staphylococcus aureus clones and detection of Brazilian epidemic MRSA clone (III::B:A) among isolates from food handlers. Soares MJ, et al. **J Med Microbiol** 1997 Mar;46(3):214–21

Coagulase and protein A polymorphisms do not contribute to persistence of nasal colonisation by Staphylococcus aureus. Van Belkum A, et al. **J Med Microbiol** 1997 Mar; 46(3):222–32

Establishment of a Streptococcus pneumoniae nasopharyngeal colonization model in adult mice. Wu HY, et al. **Microb Pathog** 1997 Sep;23(3):127–37

Group B streptococcus colonization in pregnant diabetic women. Ramos E, et al. **Obstet Gynecol** 1997 Feb; 89(2):257–60

Colonization with penicillin–nonsusceptible Streptococcus pneumoniae in urban and rural child–care centers. Boken DJ, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):667–72

No evidence of nosocomial Pneumocystis carinii infection via health care personnel. Lidman C, et al. **Scand J Infect Dis** 1997;29(1):63–4

Genital Group B Streptococcus carriage in the antenatal period: its role in prom and preterm labour. Chua S, et al. **Singapore Med J** 1995 Aug;36(4):383–5

Transfusion transmission of human T–lymphotropic virus type I (HTLV–I) from an asymptomatic blood donor: conservation of LTR U3, env, and tax nucleotide sequences in a recipient with HTLV–I–associated myelopathy. Gasmi M, et al. **Transfusion** 1997 Jan;37(1):60–4

Meningococcal disease: epidemiology and pathogenesis. Virji M. **Trends Microbiol** 1996 Dec;4(12):466–9; discussion 469–70

[Staphylococcal contamination of the upper respiratory tract mucosa in children exposed to air pollution] Bukharin OV, et al. **Gig Sanit** 1996 Nov–Dec;(6):6–8 (Eng. Abstr.) **(Rus)**

[The resident staphylococcal bacterial carriage in a human population as an index for the microecological monitoring of its habitat environment] Bukharin OV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun; (3):71–4 (Eng. Abstr.) **(Rus)**

[The dynamics of the persistence characteristics of staphylococci under the action of the microclimate of a speleotherapy mine] Chernova OP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun; (3):78–80 (Eng. Abstr.) **(Rus)**

[Microbiological factors determining the carrier state in droplet infections] Kostiukova NN. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):10–5 (51 ref.) **(Rus)**

[Activity of erythromycin and clarithromicin against isolates of Streptococcus pneumoniae with decreased sensitivity to penicillin obtained from healty carriers. Spanish Collaborative Group] García de Lomas J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):422–5 (Eng. Abstr.) **(Spa)**

[The contamination of the upper respiratory tract of children with representative opportunistic microflora] Nemchenko OO, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):86–9 (Eng. Abstr.) **(Ukr)**

PARASITOLOGY

Patterns of the morbidity and mortality of amebiasis and amebic liver abscess in Mexico: an ecological analysis. Treviño García–Manzo N, et al. **Arch Med Res** 1997;28 Spec No:290–2

PATHOLOGY

Peritoneoscopic liver biopsy findings in asymptomatic chronic HBsAg carriers with normal liver function tests and no hepatomegaly. Chon CY, et al. **Yonsei Med J** 1996 Oct;37(5):295–301

PHYSIOPATHOLOGY

[Should healthy carriers of HBs antigen be followed–up?] Zylberberg H, et al. **Gastroenterol Clin Biol** 1996; 20(10):727–9 **(Fre)**

PREVENTION & CONTROL

Surveillance of colonization and infection with Staphylococcus aureus susceptible or resistant to methicillin in a community skilled–nursing facility [see comments] Lee YL, et al. **Am J Infect Control** 1997 Aug; 25(4):312–21. Comment in: Am J Infect Control 1997 Aug;25(4):294–6.

A college outbreak of group C meningococcal infection: how widely should investigation and prophylaxis extend? Riordan T. **Commun Dis Rep CDR Rev** 1997 Jan 10; 7(1):R5–9

Preventing staphylococcal infections by eradicating nasal carriage of Staphylococcus aureus: proceeding with caution [editorial; comment] Boyce JM. **Infect Control Hosp Epidemiol** 1996 Dec;17(12):775–9 (50 ref.). Comment on: Infect Control Hosp Epidemiol 1996 Dec;17(12):780–5. Comment on: Infect Control Hosp Epidemiol 1996 Dec;17(12):786–92. Comment on: Infect Control Hosp Epidemiol 1996 Dec;17(12):813–6.

Selective decontamination of the digestive tract: 13 years on, what it is and what it is not. Baxby D, et al. **Intensive Care Med** 1996 Jul;22(7):699–706 (44 ref.)

Control of methicillin–resistant Staphylococcus aureus [letter; comment] Sheppard MJ. **J Hosp Infect** 1996 Jan; 32(1):73–8. Comment on: J Hosp Infect 1995 Feb;29(2):87–106.

Intranasal immunization of mice with PspA (pneumococcal surface protein A) can prevent intranasal carriage, pulmonary infection, and sepsis with Streptococcus pneumoniae. Wu HY, et al. **J Infect Dis** 1997 Apr; 175(4):839–46

Evaluation of the use of mass chemoprophylaxis during a school outbreak of enzyme type 5 serogroup B meningococcal disease. Jackson LA, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):992–8

Antibiotic treatment of initial colonization with Pseudomonas aeruginosa postpones chronic infection and prevents deterioration of pulmonary function in cystic fibrosis [see comments] Frederiksen B, et al. **Pediatr Pulmonol** 1997 May;23(5):330–5. Comment in: Pediatr Pulmonol 1997 May;23(5):323–4. Comment in: Pediatr Pulmonol 1997 May;23(5):325–1.

The preservation of function: treatment of new acquisition of a pathogen [editorial; comment] Rabin HR, et al. **Pediatr Pulmonol** 1997 May;23(5):323–4 (3 ref.). Comment on: Pediatr Pulmonol 1997 May;23(5):330–5.

Something is (not) rotten in Denmark [Hamlet (not) W. Shakespeare] [editorial; comment] Schidlow DV. **Pediatr Pulmonol** 1997 May;23(5):325–6 (4 ref.). Comment on: Pediatr Pulmonol 1997 May;23(5):330–5.

Frequency of alpha–thalassemia–1 of the Southeast Asian–type among pregnant women in northern Thailand determined by PCR technique. Kitsirisakul B, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):362–3

[Serologic screening of certain zoonoses in the abattoir personnel in Djibouti] Chantal J, et al. **Bull Soc Pathol Exot** 1996;89(5):353–7 (Eng. Abstr.) **(Fre)**

[Screening of Streptococcus agalactiae (group B) in the perinatal period] Chaaya A, et al. **J Med Liban** 1996; 44(4):203–8 (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Stress in parents whose children are hepatitis B virus (HBV) carriers: a comparison of three groups in Guangzhou, China. Lai AC, et al. **Child Care Health Dev** 1996 Nov; 22(6):381–96

THERAPY

Interferon–alpha 2b treatment in hepatitis B carriers. Effect on hepatitis B virus DNA levels in children infected with different genotypes. Sangfelt P, et al. **Acta Paediatr** 1997 Feb;86(2):135–7

Virological response to interferon treatment in hepatitis C virus carriers with normal aminotransferase levels and chronic hepatitis. Rossini A, et al. **Hepatology** 1997 Oct; 26(4):1012–7

Activation of liver disease in healthy hepatitis B surface antigen carriers during interferon–alpha treatment. Rodríguez–Iñigo E, et al. **J Med Virol** 1997 Sep;53(1):76–80

TRANSMISSION

[Does breast feeding compromise the efficacy of sero–vaccination of infants borne to mothers who are chronic carriers of hepatitis B antigens Soulié JC, et al. **Contracept Fertil Sex** 1997 May;25(5):I–V (39 ref.) **(Fre)**

[Does breast feeding increase the risk of transmission of hepatitis B virus chronic carrier state?] Soulié JC, et al. **Gastroenterol Clin Biol** 1997;21(3):197–9 (37 ref.) **(Fre)**

[Transmission routes of hepatitis C virus in carrier patients and study of family contacts] Sánchez Beiza ML, et al. **Rev Clin Esp** 1997 Apr;197(4):220–4 (Eng. Abstr.) **(Spa)**

VETERINARY

Anaplasma marginale: detection of carrier cattle by PCR–ELISA. Gale KR, et al. **Int J Parasitol** 1996 Oct; 26(10):1103–9

Detection of equine arteritis virus in the semen of carrier stallions by using a sensitive nested PCR assay. Gilbert SA, et al. **J Clin Microbiol** 1997 Aug;35(8):2181–3

Case report: field–acquired subclinical Babesia equi infection confirmed by in vitro culture. Holman PJ, et al. **J Clin Microbiol** 1997 Feb;35(2):474–6

Detection of equine infectious anemia viral RNA in plasma samples from recently infected and long–term inapparent carrier animals by PCR. Langemeier JL, et al. **J Clin Microbiol** 1996 Jun;34(6):1481–7

Asymptomatic carriage of Cryptococcus neoformans in the nasal cavity of dogs and cats. Malik R, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):27–31

Prevalence and characterization of Microsporum canis carriage in cats. Mignon BR, et al. **J Med Vet Mycol** 1997 Jul–Aug;35(4):249–56

Evaluation of antibiotics for the elimination of the tonsillar carrier state of Streptococcus suis in pigs. Amass SF, et al. **J Vet Diagn Invest** 1996 Jan;8(1):64–7

Fecal shedding of Salmonella in exotic felids. Clyde VL, et al. **J Zoo Wildl Med** 1997 Jun;28(2):148–52

Campylobacter jejuni seasonal recovery observations of retail market broilers. Willis WL, et al. **Poult Sci** 1997 Feb; 76(2):314–7

Comparison between persisting anti–lipopolysaccharide antibodies and culture at postmortem in salmonella–infected cattle herds. Hoorfar J, et al. **Vet Microbiol** 1996 May;50(1–2):81–94

Naturally occurring persistent and asymptomatic infection of the guttural pouches of horses with Streptococcus equi. Newton JR, et al. **Vet Rec** 1997 Jan 25;140(4):84–90

Genetic screening of dogs [letter] [see comments] Skipper A. **Vet Rec** 1996 Aug 17;139(7):171. Comment in: Vet Rec 1996 Sep 7;139(10):243. Comment in: Vet Rec 1996 Oct 12;139(15):375–6.

Atypical strains of verocytotoxin–producing Escherichia coli O157 in beef cattle at slaughter in Veneto region, Italy. Conedera G, et al. **Zentralbl Veterinarmed [B]** 1997 Jul; 44(5):301–6

VIROLOGY

Low level hepatitis B viremia detected by polymerase chain reaction accompanies the absence of HBe antigenemia and hepatitis in hepatitis B virus carriers. Niitsuma H, et al. **Am J Gastroenterol** 1997 Jan;92(1):119–23

Clonal integration and expression of human T–cell lymphotropic virus type I in carriers detected by polymerase chain reaction and inverse PCR. Ohshima K, et al. **Am J Hematol** 1997 Apr;54(4):306–12

Lytic replication of Epstein–Barr virus in the peripheral blood: analysis of viral gene expression in B lymphocytes during infectious mononucleosis and in the normal carrier state. Prang NS, et al. **Blood** 1997 Mar 1;89(5):1665–77

Hepatitis B virus markers, hepatitis D virus antigen and hepatitis C virus antibodies in Nigerian patients with chronic liver disease. Ojo OS, et al. **East Afr Med J** 1995 Nov;72(11):719–21

Nucleic acid sequence analysis of the precore region of hepatitis B virus from sera of southern African black adult carriers of the virus. Kramvis A, et al. **Hepatology** 1997 Jan;25(1):235–40

Recurrent histiocytic necrotizing lymphadenitis (Kikuchi's disease) in an human T lymphotropic virus type I carrier [see comments] Atarashi K, et al. **Intern Med** 1996 Oct; 35(10):821–5. Comment in: Intern Med 1996 Oct;35(10):753.

Recurrence of Kikuchi's disease with aseptic meningitis in HTLV–1 carrier [editorial; comment] Kikuchi M. **Intern Med** 1996 Oct;35(10):753. Comment on: Intern Med 1996 Oct;35(10):821–5.

HCV genotypes in patients with liver disease of different stages and severity. Mangia A, et al. **J Hepatol** 1997 Jun; 26(6):1173–8

Marked inhibition of the intracellular multiplication of Legionella pneumophila in monocytes isolated from carriers of human T lymphotrophic virus type I. Funai N, et al. **J Leukoc Biol** 1997 Feb;61(2):133–40

Superinfection by homotypic virus in hepatitis C virus carriers: studies on patients with post–transfusion hepatitis. Kao JH, et al. **J Med Virol** 1996 Dec;50(4):303–8

Mutation rates in LTR of HTLV–1 in HAM/TSP patients and the carriers are similarly high to Tax/Rex–coding sequence [see comments] Saito M, et al. **J Neurovirol** 1996 Oct;2(5):330–5. Comment in: J Neurovirol 1996 Oct;2(5):297–8.

Hepatitis B virus precore mutants in HBeAg carriers with chronic hepatitis treated with interferon. Lampertico P, et al. **J Viral Hepat** 1995;2(5):251–6

Establishment of HTLV–1 carrier mice by injection with HTLV–1–producing T cells. Kushida S, et al. **Leukemia** 1997 Apr;11 Suppl 3:260–2

Sequence variation of the hypervariable region in HCV carriers with normal ALT levels: a comparison with symptomatic carriers. Murashima S, et al. **Microbiol Immunol** 1996;40(12):941–7

Nucleotide sequence of precore region of hepatitis B virus DNA in HBsAg–positive carriers in Malaysia. Ton SH, et al. **Scand J Infect Dis** 1996;28(6):543–8

Naturally occurring hepatitis B virus genomes bearing the hallmarks of retroviral G—>A hypermutation. Günther S, et al. **Virology** 1997 Aug 18;235(1):104–8

[Virological studies on HTLV–1 carrier pregnant women] Satow Y, et al. **Kansenshogaku Zasshi** 1997 Feb; 71(2):136–42 (Eng. Abstr.) **(Jpn)**

CARRIER STATE

[Virus carriers in rotavirus infection] Vasil'ev BIa, et al. **Vopr Virusol** 1996 Nov-Dec;41(6):265-7 (Eng. Abstr.) **(Rus)**

[The taxonomic importance of the capacity of bacteria in the genus Staphylococcus for the inactivation of a number of natural anti-infectious resistance factors] Bukharin OV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul-Aug; (4):30-3 (Eng. Abstr.) **(Rus)**

CARRIERS, GENETIC see **HETEROZYGOTE**

CARRIERS, GENETIC, DETECTION see **HETEROZYGOTE DETECTION**

CARRION'S DISEASE see **BARTONELLA INFECTIONS**

CARROTS

Hypersensitivity to carrot associated with specific IgE to grass and tree pollens. Gómez M, et al. **Allergy** 1996 Jun; 51(6):425-9

Carrot addiction. Kaplan R. **Aust N Z J Psychiatry** 1996 Oct;30(5):698-700 (8 ref.)

Dietary carrot results in diminished ovarian progesterone secretion, whereas a metabolite, retinoic acid, stimulates progesterone secretion in the in vitro perfused rabbit ovary. Keenan DL, et al. **Fertil Steril** 1997 Aug;68(2):358-63

Screwing a carrot out of the rectum [letter] Vashist MG, et al. **Indian J Gastroenterol** 1997 Jul;16(3):120

Re-examination of the surface EMG activity of the masseter muscle in young adults during chewing of two test foods. Karkazis HC, et al. **J Oral Rehabil** 1997 Mar;24(3):216-23

CHEMISTRY

Rhamnogalacturonan II, a dominant polysaccharide in juices produced by enzymic liquefaction of fruits and vegetables. Doco T, et al. **Carbohydr Res** 1997 Jan 2;297(2):181-6

Content of the essential oil of the carrot and its antibacterial activity. Kilibarda V, et al. **Pharmazie** 1996 Oct; 51(10):777-8

EMBRYOLOGY

A leucine-rich repeat containing receptor-like kinase marks somatic plant cells competent to form embryos. Schmidt ED, et al. **Development** 1997 May;124(10):2049-62

Regulation of an embryogenic carrot gene (DC 2.15) and identification of its active promoter sites. Holk A, et al. **Plant Mol Biol** 1996 Sep;31(6):1153-61

ENZYMOLOGY

Subcellular localization and purification of a p-hydroxyphenylpyruvate dioxygenase from cultured carrot cells and characterization of the corresponding cDNA. Garcia I, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):761-9

Carboxylestrase activity in the carrot seed and seedling. Melati MR, et al. **Eur J Histochem** 1996;40(2):159-66

Molecular and biochemical characterization of a proteasome subunit from rice and carrot cells. Umeda M, et al. **Mol Gen Genet** 1997 Jun;255(1):19-27

An extracellular insoluble inhibitor of cysteine proteinases in cell cultures and seeds of carrot. Ojima A, et al. **Plant Mol Biol** 1997 May;34(1):99-109

Purification and characterization of neutral and alkaline invertase from carrot. Lee HS, et al. **Plant Physiol** 1996 Dec;112(4):1513-22

GENETICS

Characterization of the carrot beta-tubulin gene coding a divergent isotype, beta-2. Okamura S, et al. **Cell Struct Funct** 1997 Apr;22(2):291-8

Peripheral framework of carrot cell nucleus contains a novel protein predicted to exhibit a long alpha-helical domain. Masuda K, et al. **Exp Cell Res** 1997 Apr 10;232(1):173-81

The effect of the length of the 3'-untranslated region on expression in plants. Tanguay RL, et al. **FEBS Lett** 1996 Oct 7;394(3):285-8

Cloning of a cDNA encoding DNA topoisomerase I in Daucus carota and expression analysis in relation to cell proliferation [published erratum appears in Gene 1997 May 20;191(1):127] Balestrazzi A, et al. **Gene** 1996 Dec 12; 183(1-2):183-90

Somatic variation during long-term subculturing of plant cells caused by insertion of a transposable element in a phenylalanine ammonia-lyase (PAL) gene. Ozeki Y, et al. **Mol Gen Genet** 1997 Apr 28;254(4):407-16

Isolation of a novel class of bZIP transcription factors that interact with ABA-responsive and embryo-specification elements in the Dc3 promoter using a modified yeast one-hybrid system. Kim SY, et al. **Plant J** 1997 Jun; 11(6):1237-51

Regulation of an embryogenic carrot gene (DC 2.15) and identification of its active promoter sites. Holk A, et al. **Plant Mol Biol** 1996 Sep;31(6):1153-61

Cloning and characterisation of a carrot cDNA coding for a WD repeat protein homologous to Drosophila fizzy, human p55CDC and yeast CDC20 proteins [published erratum appears in Plant Mol Biol 1997 Aug;34(6):973] Luo M, et al. **Plant Mol Biol** 1997 May;34(2):325-30

Multiple transcription start sites of the carrot dihydrofolate reductase-thymidylate synthase gene, and sub-cellular localization of the bifunctional protein. Luo M, et al. **Plant Mol Biol** 1997 Mar;33(4):709-22

Isolation and characterization of a diverse set of genes from carrot somatic embryos. Lin X, et al. **Plant Physiol** 1996 Nov;112(3):1365-74

IMMUNOLOGY

Carrot-induced asthma: immunodetection of allergens. Quirce S, et al. **J Allergy Clin Immunol** 1997 May; 99(5):718-9

METABOLISM

14C-Residues of trifluralin in a soil and their uptake by carrots. Tiryaki O, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):58-64

Role of inward K+ channel located at carrot plasma membrane in signal cross-talking of cAMP with Ca2+ cascade. Kurosaki F. **FEBS Lett** 1997 May 12;408(1):115-9

Processing and storage of lye-treated carrots fermented by a mixed starter culture. Montaño A, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):83-90

Isolation of microtubule-associated proteins from carrot cytoskeletons: a 120 kDa map decorates all four microtubule arrays and the nucleus. Chan J, et al. **Plant J** 1996 Aug;10(2):251-9

MICROBIOLOGY

Attachment of Agrobacterium tumefaciens to carrot cells and Arabidopsis wound sites is correlated with the presence of a cell-associated, acidic polysaccharide. Reuhs BL, et al. **J Bacteriol** 1997 Sep;179(17):5372-9

Studies on the response of carrot cells to a Sclerotinia sclerotiorum elicitor: induction of the expression of an extracellular glycoprotein mRNA. Bertinetti C, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):658-63

PHYSIOLOGY

Studies on the response of carrot cells to a Sclerotinia sclerotiorum elicitor: induction of the expression of an extracellular glycoprotein mRNA. Bertinetti C, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):658-63

Isolation and characterization of a diverse set of genes from carrot somatic embryos. Lin X, et al. **Plant Physiol** 1996 Nov;112(3):1365-74

CARSICKNESS see **MOTION SICKNESS**

CARTEOLOL

ADMINISTRATION & DOSAGE

Topical beta-blockade with intrinsic sympathomimetic activity offers no advantage for the respiratory and cardiovascular function of elderly people. Diggory P, et al. **Age Ageing** 1996 Nov;25(6):424-8

[Effect of non-surgical ocular hypotensive therapy in normal-tension glaucoma] Koseki N, et al. **Nippon Ganka Gakkai Zasshi** 1997 Feb;101(2):158-62 (Eng. Abstr.) **(Jpn)**

[Effect of topical carteolol on visual function in normal-tension glaucoma] Maeda H, et al. **Nippon Ganka Gakkai Zasshi** 1997 Mar;101(3):227-31 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

First report of sweating associated with topical beta-blocker therapy [letter] Schmutz JL, et al. **Dermatology** 1997; 194(2):197-8

ANALOGS & DERIVATIVES

Intracerebral penetration of carteolol hydrochloride in rats. Kudo S, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):388-93

PHARMACOKINETICS

Intracerebral penetration of carteolol hydrochloride in rats. Kudo S, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):388-93

PHARMACOLOGY

Differentiation of binding sites of CGP12177, a beta 3-adrenoceptor partial agonist, and carteolol, a beta 1/beta 2-adrenoceptor partial agonist, to the beta-adrenoceptors in guinea-pig taenia caecum. Koike K, et al. **Can J Physiol Pharmacol** 1996 Aug;74(8):928-33

The attenuating effect of carteolol hydrochloride, a beta-adrenoceptor antagonist, on neuroleptic-induced catalepsy in rats. Kikuchi T, et al. **Psychopharmacology (Berl)** 1997 May;131(2):108-14

THERAPEUTIC USE

Cardiovascular effects of topical carteolol hydrochloride and timolol maleate in patients with ocular hypertension and primary open-angle glaucoma. Night Study Group. Netland PA, et al. **Am J Ophthalmol** 1997 Apr; 123(4):465-77

Fixed combination of carteolol and pilocarpine eye-drops: a double-blind randomized cross-over trial versus carteolol alone on intra-ocular pressure. The Study Group. Hostyn P, et al. **Eur J Ophthalmol** 1996 Jan-Mar;6(1):17-20

The effects of the beta-adrenergic-blocking agents, timolol and carteolol, on plasma lipids and lipoproteins in Japanese glaucoma patients. Yamamoto T, et al. **J Glaucoma** 1996 Aug;5(4):252-7

CARTICAINE

Intravenous regional anesthesia with 0.5% articaine, 0.5% lidocaine, or 0.5% prilocaine. A double-blind randomized clinical study. Simon MA, et al. **Reg Anesth** 1997 Jan-Feb; 22(1):29-34

[Ultracaine anesthesia in surgical otorhinolaryngology] Aniutin RG, et al. **Vestn Otorinolaringol** 1996 Nov-Dec; (6):38-40 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Delayed-type hypersensitivity to subcutaneous lidocaine with tolerance to articaine: confirmation by in vivo and in vitro tests. Bircher AJ, et al. **Contact Dermatitis** 1996 Jun;34(6):387-9

PHARMACOKINETICS

Regional metabolism of articaine in 10 patients undergoing intravenous regional anaesthesia during day case surgery. Vree TB, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):29-34

Epidural metabolism of articaine to its metabolite articainic acid in five patients after epidural administration of 600 mg articaine. Vree TB, et al. **J Pharm Pharmacol** 1997 Feb; 49(2):158-63

Saturable in vitro metabolism of articaine by serum esterases. Does it contribute to the persistence of the local anesthetic effect? Oertel R, et al. **Reg Anesth** 1996 Nov-Dec; 21(6):576-81

CARTILAGE

consider also terms at CHONDRO-

see related
CHONDROITIN
LARYNGEAL CARTILAGES

Shark cartilage-induced hepatitis [letter] Ashar B, et al. **Ann Intern Med** 1996 Nov 1;125(9):780-1

Effect of intraoperative ischemia on chondrogenesis by vascularized auricular perichondrium grafted in the airway. Naficy S, et al. **Ann Otol Rhinol Laryngol** 1997 Mar; 106(3):237-9

Anti-inflammatory and analgesic activity of a water-soluble fraction from shark cartilage. Fontenele JB, et al. **Braz J Med Biol Res** 1996 May;29(5):643-6

A new biological glue for cartilage-cartilage interfaces: tissue transglutaminase. Jürgensen K, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):185-93

Reducing the risk of cartilaginous supratip deformities. Gilbert SE. **J Okla State Med Assoc** 1996 Feb;89(2):51-7

Ocular manifestations of the organoid nevus syndrome. Shields JA, et al. **Ophthalmology** 1997 Mar;104(3):549-57

Benign and malignant cartilage tumors of bone and joint: their anatomic and theoretical basis with an emphasis on radiology, pathology and clinical biology. I. The intramedullary cartilage tumors. Brien EW, et al. **Skeletal Radiol** 1997 Jun;26(6):325-53 (41 ref.)

Nucleus pulposus pulmonary embolism: a case report [letter; comment] Veinot JP, et al. **Spine** 1997 Apr 15;22(8):927-8 . Comment on: Spine 1995 Nov 15;20(22):2463-6.

Ophthalmic features of the organoid nevus syndrome. Shields JA, et al. **Trans Am Ophthalmol Soc** 1996;94:65-86; discussion 86-7 (46 ref.)

ABNORMALITIES

Complete cartilaginous duplication of the rib cage found in a cadaver: a first reported case. Abolhoda A, et al. **Am Surg** 1996 Nov;62(11):976-8

A duplicated Meckel's cartilage in a human fetus. Rodríguez-Vázquez JF, et al. **Anat Embryol (Berl)** 1997 Jun;195(6):497-502

Pathologic quiz case 2. Congenital cartilaginous rests of the neck (CCRNs) (wattles). Dunlevy TM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):655, 657

Abnormalities in secondary cartilages in four lines of transgenic mice harboring two different types of mutations in the cartilage-specific type II collagen gene. Rintala M, et al. **J Craniofac Genet Dev Biol** 1996 Jul-Sep;16(3):148-55

Cervical chrondrocutaneous branchial remnants. Atlan G, et al. **Plast Reconstr Surg** 1997 Jul;100(1):32-9

ANATOMY & HISTOLOGY

MR imaging truncation artifacts can create a false laminar appearance in cartilage. Frank LR, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):547-54

Some remarks on, and a new case of the rare os intercuneiforme (Dwight). Prescher A. **Anat Anz** 1997 Aug; 179(4):317-20 (24 ref.)

Anatomy of alar cartilages in blacks. Ofodile FA, et al. **Plast Reconstr Surg** 1997 Sep;100(3):699-703

[Interpretation of bone and cartilage magnetic resonance images and their future prospect] Kusaka Y. **Nippon Seikeigeka Gakkai Zasshi** 1996 Dec;70(12):807-16

(26 ref.) (Jpn)

BLOOD SUPPLY

The dimensions and vascular anatomy of the cricothyroid membrane: relevance to emergent surgical airway access. Dover K, et al. **Clin Anat** 1996;9(5):291–5

Intrinsic control of vascularization in developing cartilage rudiments. Fenwick SA, et al. **Int J Exp Pathol** 1997 Jun; 78(3):187–96

Transferrin promotes endothelial cell migration and invasion: implication in cartilage neovascularization. Carlevaro MF, et al. **J Cell Biol** 1997 Mar 24;136(6):1375–84

CHEMISTRY

epsilon(gamma–Glutamyl)lysine crosslinks are concentrated in a non–collagenous microfibrillar fraction of cartilage. Bowness JM, et al. **Biochem Cell Biol** 1997;75(1):89–91

Pulsed electromagnetic fields preserve proteoglycan composition of extracellular matrix in embryonic chick sternal cartilage. Liu H, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):303–14

Magnetic resonance microscopy studies of cation diffusion in cartilage. Potter K, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):129–39

Preferential expression of alternatively spliced transcript of type II procollagen in the rabbit notochordal remnant and developing fibrocartilages. Takaishi H, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):253–8

A molecular theory of cartilage viscoelasticity. Kovach IS. **Biophys Chem** 1996 Mar 7;59(1–2):61–73 (46 ref.)

Detection of lamprin mRNA in the anadromous sea lamprey using in situ hybridization. McBurney KM, et al. **Biotech Histochem** 1996 Jan;71(1):44–53

An automated double staining procedure for bone and cartilage. Miller DM, et al. **Biotech Histochem** 1996 Mar; 71(2):79–83

Needle bore size used for arthrocentesis and synovial fluid volume have no effect on cartilage proteoglycan measurements [letter] Adlam N, et al. **Br J Rheumatol** 1997 Feb;36(2):299–300

Detection of protein and mRNA of various components of the NADPH oxidase complex in an immortalized human chondrocyte line. Moulton PJ, et al. **Br J Rheumatol** 1997 May;36(5):522–9

The role of type X collagen in endochondral ossification as deduced by Fourier transform infrared microscopy analysis. Paschalis EP, et al. **Connect Tissue Res** 1996; 35(1–4):371–7

Immunolocalization of osteonectin in avian tibial dyschondroplastic cartilage. Wu J, et al. **Dev Dyn** 1996 Sep;207(1):69–74

Complement proteins are present in developing endochondral bone and may mediate cartilage cell death and vascularization. Andrades JA, et al. **Exp Cell Res** 1996 Sep 15;227(2):208–13

Molecular characterization of the gene for human cartilage gp–39 (CHI3L1), a member of the chitinase protein family and marker for late stages of macrophage differentiation. Rehli M, et al. **Genomics** 1997 Jul 15;43(2):221–5

The unusual tetrasaccharide sequence GlcA beta 1–3GalNAc(4–sulfate)beta 1–4GlcA(2–sulfate)beta 1–3GalNAc(6–sulfate) found in the hexasaccharides prepared by testicular hyaluronidase digestion of shark cartilage chondroitin sulfate D. Nadanaka S, et al. **Glycobiology** 1997 Mar;7(2):253–63

Preparation of a series of sulfated tetrasaccharides from shark cartilage chondroitin sulfate D using testicular hyaluronidase and structure determination by 500 MHz 1H NMR spectroscopy. Sugahara K, et al. **Glycoconj J** 1996 Aug;13(4):609–19

Influence of specimen preparation on the identification of phospholipids by the phospholipase A2–gold method in mineralizing cartilage and bone. Zini N, et al. **Histochem Cell Biol** 1996 Apr;105(4):283–96

A novel growth–promoting factor derived from fetal bovine cartilage, chondromodulin II. Purification and amino acid sequence. Hiraki Y, et al. **J Biol Chem** 1996 Sep 13; 271(37):22657–62

Novel tetrasaccharides isolated from squid cartilage chondroitin sulfate E contain unusual sulfated disaccharide units GlcA(3–O–sulfate)beta1–3GalNAc(6–O–sulfate) or GlcA(3–O–sulfate)beta1–3GalNAc. Kinoshita A, et al. **J Biol Chem** 1997 Aug 8;272(32):19656–65

Novel sulfated oligosaccharides containing 3–O–sulfated glucuronic acid from king crab cartilage chondroitin sulfate K. Unexpected degradation by chondroitinase ABC. Sugahara K, et al. **J Biol Chem** 1996 Oct 25; 271(43):26745–54

Gd–DTPA2– as a measure of cartilage degradation [published erratum appears in Magn Reson Med 1996 Dec;36(6):964] Bashir A, et al. **Magn Reson Med** 1996 Nov; 36(5):665–73

Characterization of human type II procollagen and collagen–specific antibodies and their application to the study of human type II collagen processing and ultrastructure. Jimenez SA, et al. **Matrix Biol** 1997 Apr; 16(1):29–39

Antiproliferative activity of shark cartilage with and without tumor necrosis factor–alpha in human umbilical vein endothelium. McGuire TR, et al. **Pharmacotherapy** 1996 Mar–Apr;16(2):237–44

CYTOLOGY

Articular cartilage injuries treated with autologous chondrocyte transplantation in the human knee. Peterson L. **Acta Orthop Belg** 1996;62 Suppl 1:196–200

Chondrocyte transplantation and experimental treatment options for articular cartilage defects. Chen FS, et al. **Am J Orthop** 1997 Jun;26(6):396–406 (98 ref.)

Four–dimensional imaging of living chondrocytes in cartilage using confocal microscopy: a pragmatic approach. Errington RJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C1040–51

Insulin–like growth factor 1 and corticosteroid modulation of chondrocyte metabolic and mitogenic activities in interleukin 1–conditioned equine cartilage. Frisbie DD, et al. **Am J Vet Res** 1997 May;58(5):524–30

Quantification of sulfated glycosaminoglycans in chondrocyte/alginate cultures, by use of 1,9–dimethylmethylene blue. Enobakhare BO, et al. **Anal Biochem** 1996 Dec 1;243(1):189–91

Characterization of chondrogenesis in cells isolated from limb buds in mouse. Edwall–Arvidsson C, et al. **Anat Embryol (Berl)** 1996 May;193(5):453–61

Meckel's cartilage chondrocytes in organ culture synthesize bone–type proteins accompanying osteocytic phenotype expression. Ishizeki K, et al. **Anat Embryol (Berl)** 1996 Jan; 193(1):61–71

Chondrocyte transplantation. Jackson DW, et al. **Arthroscopy** 1996 Dec;12(6):732–8 (17 ref.)

Chondrocyte transplantation [letter] McPherson JM, et al. **Arthroscopy** 1997 Aug;13(4):541–7

Cloning of a mouse smoothened cDNA and expression patterns of hedgehog signalling molecules during chondrogenesis and cartilage differentiation in clonal mouse EC cells, ATDC5. Akiyama H, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):142–7

Molecular characterization of the novel basic helix–loop–helix protein DEC1 expressed in differentiated human embryo chondrocytes. Shen M, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):294–8

Three–dimensional composite of demineralized bone powder and collagen for in vitro analysis of chondroinduction of human dermal fibroblasts. Mizuno S, et al. **Biomaterials** 1996 Sep;17(18):1819–25

Detection of protein and mRNA of various components of the NADPH oxidase complex in an immortalized human chondrocyte line. Moulton PJ, et al. **Br J Rheumatol** 1997 May;36(5):522–9

Integrin expression and collagen type II implicated in maintenance of chondrocyte shape in monolayer culture: an immunomorphological study. Shakibaei M, et al. **Cell Biol Int** 1997 Feb;21(2):115–25

Differentiation of mesenchymal limb bud cells to chondrocytes in alginate beads. Shakibaei M, et al. **Cell Biol Int** 1997 Feb;21(2):75–86

C–Jun and JunD suppress maturation of chondrocytes. Kameda T, et al. **Cell Growth Differ** 1997 May;8(5):495–503

Chondrocyte migration to fibronectin, type I collagen, and type II collagen. Shimizu M, et al. **Cell Struct Funct** 1997 Jun;22(3):309–15

Osteochondral repair using perichondrial cells. A 1–year study in rabbits. Chu CR, et al. **Clin Orthop** 1997 Jul; (340):220–9

Cell biology of calcified tissues: experimental models of differentiation and mechanisms by which local and systemic factors exert their effects. Boyan BD, et al. **Connect Tissue Res** 1996;35(1–4):63–70 (54 ref.)

The synergistic effect of TGF beta and 24,25–(OH)2D3 on resting zone chondrocytes is metabolite–specific and mediated by PKC. Schwartz Z, et al. **Connect Tissue Res** 1996;35(1–4):101–6

Induction of myogenesis in mesenchymal cells by MyoD depends on their degree of differentiation. Filvaroff EH, et al. **Dev Biol** 1996 Sep 15;178(2):459–71

Inhibition of in vitro limb cartilage differentiation by syndecan–3 antibodies. Seghatoleslami MR, et al. **Dev Dyn** 1996 Sep;207(1):114–9

Analysis of chondroprogenitor frequency and cartilage differentiation in a novel family of clonal chondrogenic rat cell lines. Grigoriadis AE, et al. **Differentiation** 1996 Sep;60(5):299–307

Effect of growth factors on matrix synthesis by human nasal chondrocytes cultured in monolayer and in agar. Bujia J, et al. **Eur Arch Otorhinolaryngol** 1996;253(6):336–40

Complement proteins are present in developing endochondral bone and may mediate cartilage cell death and vascularization. Andrades JA, et al. **Exp Cell Res** 1996 Sep 15;227(2):208–13

Apoptosis of terminally differentiated chondrocytes in culture. Gibson G, et al. **Exp Cell Res** 1997 Jun 15; 233(2):372–82

Chondrocytic cell differentiation in clear cell chondrosarcoma. Aigner T, et al. **Hum Pathol** 1996 Dec; 27(12):1301–5

Distribution and viability of cultured human chondrocytes in a three–dimensional matrix as assessed by confocal laser scan microscopy [letter] Aigner J, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun;33(6):407–9

Microgravity tissue engineering. Freed LE, et al. **In Vitro Cell Dev Biol Anim** 1997 May;33(5):381–5

The development and characterization of an in vitro system to study strain–induced cell deformation in isolated chondrocytes. Lee DA, et al. **In Vitro Cell Dev Biol Anim** 1995 Dec;31(11):828–35

Artificial tissues in perfusion culture. Sittinger M, et al. **Int J Artif Organs** 1997 Jan;20(1):57–62

Collagen degradation induced by the combination of IL–1alpha and plasminogen in rabbit articular cartilage explant culture. Saito S, et al. **J Biochem (Tokyo)** 1997 Jul; 122(1):49–54

Effect of titanium surface roughness on chondrocyte proliferation, matrix production, and differentiation depends on the state of cell maturation. Schwartz Z, et al. **J Biomed Mater Res** 1996 Feb;30(2):145–55

Establishment of bone morphogenetic protein 2 responsive chondrogenic cell line. Aikawa T, et al. **J Bone Miner Res** 1996 Apr;11(4):544–53

Involvement of alpha5beta1 integrin in matrix interactions and proliferation of chondrocytes. Enomoto–Iwamoto M, et al. **J Bone Miner Res** 1997 Jul;12(7):1124–32

A new role for the chondrocyte in fracture repair: endochondral ossification includes direct bone formation by former chondrocytes. Scammell BE, et al. **J Bone Miner Res** 1996 Jun;11(6):737–45

Combination of osteoinductive bone proteins differentiates mesenchymal C3H/10T1/2 cells specifically to the cartilage lineage. Atkinson BL, et al. **J Cell Biochem** 1997 Jun 1;65(3):325–39

Rapid chondrocyte maturation by serum–free culture with BMP–2 and ascorbic acid. Leboy PS, et al. **J Cell Biochem** 1997 Sep 1;66(3):394–403

Constitutive expression of parathyroid hormone–related peptide (PTHrP) stimulates growth and inhibits differentiation of CFK2 chondrocytes. Henderson JE, et al. **J Cell Physiol** 1996 Oct;169(1):33–41

Transforming growth factor–beta predominantly stimulates phenotypically changed chondrocytes in osteoarthritic human cartilage. Lafeber FP, et al. **J Rheumatol** 1997 Mar; 24(3):536–42

Effect of CO2 laser on healing of cultured meniscus. Tsai CL, et al. **Lasers Surg Med** 1997;20(2):172–8

Temporal changes in charge content of cultured chondrocytes from bovine cartilaginous tissues. Van Damme MP, et al. **Matrix Biol** 1997 Mar;15(7):495–502

Tissue–engineered cartilage attracts research interest [news] Harby K. **Mol Med Today** 1996 Dec;2(12):492–3

Expression of heat–shock–proteins in the differentiation process of chondrocytes. Otsuka G, et al. **Nippon Geka Hokan** 1996 May 1;65(2):39–48

Chondrocyte volume fraction distribution in porcine septal cartilage: an initial stereoscopic evaluation. Carnevale GG, et al. **Otolaryngol Head Neck Surg** 1996 Oct;115(4):365–9

Injectable cartilage using polyethylene oxide polymer substrates. Sims CD, et al. **Plast Reconstr Surg** 1996 Oct; 98(5):843–50

Transfer of genes to chondrocytic cells of the lumbar spine. Proposal for a treatment strategy of spinal disorders by local gene therapy. Wehling P, et al. **Spine** 1997 May 15; 22(10):1092–7

[Tissue engineering of human cartilage tissue for reconstructive surgery using biocompatible resorbable fibrin gel and polymer carriers] Haisch A, et al. **HNO** 1996 Nov;44(11):624–9 (Eng. Abstr.) **(Ger)**

[Realistic imaging of cell systems using confocal laser scanning microscopy exemplified by 3–dimensional chondrocyte culture] Aigner J, et al. **Laryngorhinootologie** 1997 Apr;76(4):248–51 (Eng. Abstr.) **(Ger)**

[Experimental studies of mechanically–induced articular cartilage defects following implantation of allogeneic embryonal chondrocytes in a collagen–fibrin gel in chickens] Perka C, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec;134(6):562–72 (72 ref.) (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

Extracellular ATP modulates [Ca2+]i in retinoic acid–treated embryonic chondrocytes. Hung CT, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1611–7

Differential effects of aging on human chondrocyte responses to transforming growth factor beta: increased pyrophosphate production and decreased cell proliferation. Rosen F, et al. **Arthritis Rheum** 1997 Jul;40(7):1275–81

Effect of boric acid solution on cartilage metabolism. Benderdour M, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):263–8

2,5–Diarylisothiazolone: novel inhibitors of cytokine–induced cartilage destruction. Wright SW, et al. **Bioorg Med Chem** 1996 Jun;4(6):851–8

Ro 32–3555, an orally active collagenase inhibitor, prevents cartilage breakdown in vitro and in vivo. Lewis EJ, et al. **Br J Pharmacol** 1997 Jun;121(3):540–6

Ultrasonographic assessment of local steroid injection in Tietze's syndrome. Kamel M, et al. **Br J Rheumatol** 1997 May;36(5):547–50

S–substituted isothioureas are potent inhibitors of nitric oxide biosynthesis in cartilage. Jang D, et al. **Eur J Pharmacol** 1996 Oct 3;312(3):341–7

Undersulfated beta–D–xyloside glycosaminoglycans are secreted in the presence of the ionophore monensin. Kajiwara T, et al. **FEBS Lett** 1981 Nov 2;134(1):43–6

The effects of ciprofloxacin on human chondrocytes in cell culture. Mont MA, et al. **Infection** 1996 Mar–Apr; 24(2):151–5

Lack of chondrotoxicity of ofloxacin otic solution on the auditory ossicle cartilages of juvenile guinea pigs. Kato

M, et al. **J Antimicrob Chemother** 1997 Feb;39(2):269–71

Effects of concanavalin A on chondrocyte hypertrophy and matrix calcification. Yan W, et al. **J Biol Chem** 1997 Mar 21;272(12):7833–40

1 alpha,25-dihydroxyvitamin D3 inhibits cell growth and chondrogenesis of a clonal mouse EC cell line, ATDC5. Akiyama H, et al. **J Bone Miner Res** 1996 Jan;11(1):22–8

In serum-free culture thyroid hormones can induce full expression of chondrocyte hypertrophy leading to matrix calcification. Alini M, et al. **J Bone Miner Res** 1996 Jan; 11(1):105–13

Limited chondro-osteogenesis by recombinant human transforming growth factor-beta 1 in calvarial defects of adult baboons (Papio ursinus). Ripamonti U, et al. **J Bone Miner Res** 1996 Jul;11(7):938–45

Sulfation factor revisited: the one-two punch of insulin-like growth factor-I action on cartilage [editorial; comment] Daughaday WH. **J Lab Clin Med** 1997 Apr;129(4):398–9 . Comment on: J Lab Clin Med 1997 Apr;129(4):430–8.

End-organ resistance to growth hormone and IGF-I in epiphyseal chondrocytes of rats with chronic renal failure. Mak RH, et al. **Kidney Int** 1996 Aug;50(2):400–6

EMBRYOLOGY

Light and electron microscopy of stage-specific features of the transdifferentiation of mouse Meckel's cartilage chondrocytes in vitro. Ishizeki K, et al. **Acta Anat (Basel)** 1996;157(1):1–10

An ultrastructural study of the perichondrium in cartilages of the chick embryo. Bairati A, et al. **Anat Embryol (Berl)** 1996 Aug;194(2):155–67

Characterization of chondrogenesis in cells isolated from limb buds in mouse. Edwall-Arvidsson C, et al. **Anat Embryol (Berl)** 1996 May;193(5):453–61

Chondroid tissue in the early facial morphogenesis of the chick embryo. Lengelé B, et al. **Anat Embryol (Berl)** 1996 May;193(5):505–13

Spatial and temporal distribution of lamprin mRNA during chondrogenesis of trabecular cartilage in the sea lamprey. McBurney KM, et al. **Anat Embryol (Berl)** 1996 May; 193(5):419–26

A duplicated Meckel's cartilage in a human fetus. Rodríguez-Vázquez JF, et al. **Anat Embryol (Berl)** 1997 Jun;195(6):497–502

Chondrogenic cell subpopulation of chick embryonic calvarium: isolation by peanut agglutinin affinity chromatography and in vitro characterization. Stringa E, et al. **Anat Embryol (Berl)** 1996 Nov;194(5):427–37

Embryonic origin and fate of chondroid tissue and secondary cartilages in the avian skull. Lengelé B, et al. **Anat Rec** 1996 Nov;246(3):377–93

A histological study of the developing condylar cartilage of the fetal mouse mandible using coronal sections. Shibata S, et al. **Arch Oral Biol** 1996 Jan;41(1):47–54

Patterns of expression of Hoxa-11 in micromass cultures of chick limb mesenchyme from various stages suggest a role for Hoxa-11 in the specification of the zeugopod. Rogina B. **Biochem Mol Biol Int** 1997 Jul;42(3):583–9

An automated double staining procedure for bone and cartilage. Miller DM, et al. **Biotech Histochem** 1996 Mar; 71(2):79–83

Downregulation of Msx-2 expression results in chondrogenesis in the medial region of the avian mandible. Mina M, et al. **Connect Tissue Res** 1996;35(1–4):79–84

Xbap, a vertebrate gene related to bagpipe, is expressed in developing craniofacial structures and in anterior gut muscle. Newman CS, et al. **Dev Biol** 1997 Jan 15; 181(2):223–33

SOX9 binds DNA, activates transcription, and coexpresses with type II collagen during chondrogenesis in the mouse. Ng LJ, et al. **Dev Biol** 1997 Mar 1;183(1):108–21

Inhibition of chondrogenesis by Wnt gene expression in vivo and in vitro. Rudnicki JA, et al. **Dev Biol** 1997 May 1; 185(1):104–18

Fibronectin mRNA alternative splicing is temporally and spatially regulated during chondrogenesis in vivo and in vitro. Gehris AL, et al. **Dev Dyn** 1996 Jun;206(2):219–30

Collagenase-3 (MMP-13) is expressed by hypertrophic chondrocytes, periosteal cells, and osteoblasts during human fetal bone development. Johansson N, et al. **Dev Dyn** 1997 Mar;208(3):387–97

Alternative transcript of the chick alpha 2(I) collagen gene is transiently expressed during endochondral bone formation and during development of the central nervous system. Nah HD, et al. **Dev Dyn** 1996 Jun;206(2):146–58

Matrix metalloproteinases regulate morphogenesis, migration and remodeling of epithelium, tongue skeletal muscle and cartilage in the mandibular arch. Chin JR, et al. **Development** 1997 Apr;124(8):1519–30

Jaw and branchial arch mutants in zebrafish II: anterior arches and cartilage differentiation. Piotrowski T, et al. **Development** 1996 Dec;123:345–56

Musculoskeletal patterning in the pharyngeal segments of the zebrafish embryo. Schilling TF, et al. **Development** 1997 Aug;124(15):2945–60

In vitro characterization of chondrogenic cells isolated from chick embryonic muscle using peanut agglutinin affinity chromatography. Stringa E, et al. **Exp Cell Res** 1997 May 1;232(2):287–94

Intrachondral microvasculature in the human fetal talus. Cheng X, et al. **Foot Ankle Int** 1997 Jun;18(6):335–8

Distinct roles of type I bone morphogenetic protein receptors in the formation and differentiation of cartilage. Zou H, et al. **Genes Dev** 1997 Sep 1;11(17):2191–203

Differential effects of transforming growth factors beta 1, beta 2, beta 3 and beta 5 on chondrogenesis in mouse limb bud mesenchymal cells. Chimal-Monroy J, et al. **Int J Dev Biol** 1997 Feb;41(1):91–102

Sequential synthesis of cartilage and bone marker proteins during transdifferentiation of mouse Meckel's cartilage chondrocytes in vitro. Ishizeki K, et al. **Int J Dev Biol** 1997 Feb;41(1):83–9

Intrinsic control of vascularization in developing cartilage rudiments. Fenwick SA, et al. **Int J Exp Pathol** 1997 Jun; 78(3):187–96

The role of transforming growth factor alpha in rat craniofacial development and chondrogenesis. Huang L, et al. **J Anat** 1996 Aug;189 (Pt 1):73–86

An ultrastructural study of cartilage resorption at the site of initial endochondral bone formation in the fetal mouse mandibular condyle. Shibata S, et al. **J Anat** 1997 Jul;191 (Pt 1):65–76

Structural and functional analysis of the chick chondroitin sulfate proteoglycan (aggrecan) promoter and enhancer region. Pirok EW 3rd, et al. **J Biol Chem** 1997 Apr 25; 272(17):11566–74

Retinoic acid receptor alpha function in vertebrate limb skeletogenesis: a modulator of chondrogenesis. Cash DE, et al. **J Cell Biol** 1997 Jan 27;136(2):445–57

Separable cis-regulatory elements that contribute to tissue- and site-specific alpha 2(XI) collagen gene expression in the embryonic mouse cartilage. Tsumaki N, et al. **J Cell Biol** 1996 Sep;134(6):1573–82

Activation of protein kinase A is a pivotal step involved in both BMP-2- and cyclic AMP-induced chondrogenesis. Lee YS, et al. **J Cell Physiol** 1997 Feb;170(2):153–65

Cartilage associated protein (CASP) is a novel developmentally regulated chick embryo protein. Castagnola P, et al. **J Cell Sci** 1997 Jun;110 (Pt 12):1351–9

Mandibular movements during elevation and fusion of palatal shelves evaluated from the course of Meckel's cartilage. Kjaer I. **J Craniofac Genet Dev Biol** 1997 Apr-Jun; 17(2):80–5

Cartilage morphogenesis: role of bone and cartilage morphogenetic proteins, homeobox genes and extracellular matrix. Reddi AH. **Matrix Biol** 1995 Oct;14(8):599–606 (64 ref.)

Specific craniofacial cartilage dysmorphogenesis coincides with a loss of dlx gene expression in retinoic acid-treated zebrafish embryos. Ellies DL, et al. **Mech Dev** 1997 Jan; 61(1–2):23–36

[Histological study of synchondroses and of the nasal capsule in the human fetal cranium] Caltabiano C, et al. **Minerva Stomatol** 1996 Oct;45(10):441–9 (Eng. Abstr.) **(Ita)**

[Histomorphology of secondary cartilage in human fetal mandibles] Martinez G, et al. **Minerva Stomatol** 1997 Jan-Feb;46(1–2):39–43 (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

The influence of ethyl alcohol on the development of the chondrocranium of Gallus gallus. Heyns M. **Adv Anat Embryol Cell Biol** 1997;134:1–127 (90 ref.)

Purification, characterization, and biosynthesis of bovine cartilage lysozyme isoforms. Moss JM, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):172–82

Degradation of type II collagen, but not proteoglycan, correlates with matrix metalloproteinase activity in cartilage explant cultures. Kozaci LD, et al. **Arthritis Rheum** 1997 Jan;40(1):164–74

Fibronectin fragments induce the expression of stromelysin-1 mRNA and protein in bovine chondrocytes in monolayer culture. Bewsey KE, et al. **Biochim Biophys Acta** 1996 Oct 7;1317(1):55–64

Immunolocalization of inducible nitric oxide synthase in synovium and cartilage in rheumatoid arthritis and osteoarthritis. Grabowski PS, et al. **Br J Rheumatol** 1997 Jun;36(6):651–5

Elastase activity in cartilage extracts and synovial fluids from subjects with osteoarthritis or rheumatoid arthritis: the prominent role of metalloproteinases. Chevalier X, et al. **Clin Exp Rheumatol** 1996 May-Jun;14(3):235–41

Vitamin D regulation of metalloproteinase activity in matrix vesicles. Dean DD, et al. **Connect Tissue Res** 1996; 35(1–4):331–6

Regulation of rat interstitial collagenase gene expression in growth cartilage and chondrocytes by vitamin D3, interleukin-1 beta, and okadaic acid. Grumbles RM, et al. **J Cell Biochem** 1996 Dec 15;63(4):395–409

Chondrocyte cultures express matrix metalloproteinase mRNA and immunoreactive protein; stromelysin-1 and 72 kDa gelatinase are localized in extracellular matrix vesicles. Schmitz JP, et al. **J Cell Biochem** 1996 Jun 1;61(3):375–91

"Aggrecanase" activity is implicated in tumour necrosis factor alpha mediated cartilage aggrecan breakdown but is not detected by an in vitro assay. Battle DJ, et al. **Mol Pathol** 1997 Jun;50(3):153–9

A novel mechanism of action of tetracyclines: effects on nitric oxide synthases. Amin AR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14014–9

GROWTH & DEVELOPMENT

The effect of removal of the medical collateral ligament on subchondral bone and cartilage in the growing rat knee joint. Messner K, et al. **Acta Anat (Basel)** 1996;156(1):34–40

Factors affecting the rate and pattern of the first costal cartilage ossification. Barchilon V, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):239–47

Age-related changes in the localization of glycosaminoglycans in condylar cartilage of the mandible in rats. Takahashi I, et al. **Anat Embryol (Berl)** 1996 Nov; 194(5):489–500

Quantitative analysis of trabecular morphogenesis in the human costochondral junction during the postnatal period in normal subjects. Fazzalari NL, et al. **Anat Rec** 1997 May; 248(1):1–12

BMPs induce endochondral ossification in rats when implanted ectopically within a carrier made of fibrous glass membrane. Sasano Y, et al. **Anat Rec** 1997 Apr;247(4):472–8

Heritable diseases of the skeleton. Part II: Molecular insights into skeletal development-matrix components and their homeostasis. Mundlos S, et al. **FASEB J** 1997 Mar; 11(4):227–33 (73 ref.)

Ectopic induction of cartilage and bone by bovine bone morphogenetic protein using a biodegradable polymeric reservoir. Yamazaki Y, et al. **J Biomed Mater Res** 1996 Jan;30(1):1–4

Bcl-2 lies downstream of parathyroid hormone-related peptide in a signaling pathway that regulates chondrocyte maturation during skeletal development. Amling M, et al. **J Cell Biol** 1997 Jan 13;136(1):205–13

Increased cartilage and bone formation in spontaneously hypercholesterolemic rats. Funaba M, et al. **Life Sci** 1997; 61(6):645–52

IMMUNOLOGY

B cell presentation of cartilage type II collagen to T cells. Holmdahl R, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:350–2

INJURIES

A critical analysis of cartilage repair [letter; comment] Brittberg M, et al. **Acta Orthop Scand** 1997 Apr; 68(2):186–91. Comment on: Acta Orthop Scand 1996 Oct;67(5):523–9.

Chronic, painful ankle instability in skeletally immature athletes. Ununited osteochondral fractures of the distal fibula. Busconi BD, et al. **Am J Sports Med** 1996 Sep-Oct; 24(5):647–51

Winner of the 1996 Cabaud Award. The effect of lifelong exercise on canine articular cartilage. Newton PM, et al. **Am J Sports Med** 1997 May-Jun;25(3):282–7

Traumatic lesions of the acetabular triradiate cartilage (presentation of four cases and considerations on treatment). Valdiserri L, et al. **Chir Organi Mov** 1996 Sep-Dec;81(4):361–7 **(Eng, Ita)**

Premature partial closure of the triradiate cartilage treated with excision of a physical osseous bar. Case report with a fourteen-year follow-up. Peterson HA, et al. **J Bone Joint Surg Am** 1997 May;79(5):767–70

INNERVATION

Sensory and sympathetic innervation of the vertebral endplate in patients with degenerative disc disease. Brown MF, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):147–53

METABOLISM

Distribution patterns of neoglycoprotein-binding sites (endogenous lectins) and lectin-reactive glycoconjugates during cartilage and bone formation in human finger. Zschäbitz A, et al. **Acta Anat (Basel)** 1995;154(4):272–82

The expression of types X and VI collagen and fibrillin in rat mandibular condylar cartilage. Response to mastication forces. Salo LA, et al. **Acta Odontol Scand** 1996 Oct; 54(5):295–302

Extracellular ATP modulates [Ca2+]i in retinoic acid-treated embryonic chondrocytes. Hung CT, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1611–7

Insulin-like growth factor 1 and corticosteroid modulation of chondrocyte metabolic and mitogenic activities in interleukin 1-conditioned equine cartilage. Frisbie DD, et al. **Am J Vet Res** 1997 May;58(5):524–30

Meckel's cartilage chondrocytes in organ culture synthesize bone-type proteins accompanying osteocytic phenotype expression. Ishizeki K, et al. **Anat Embryol (Berl)** 1996 Jan; 193(1):61–71

Expression of p53 and hsp70 in relation to apoptosis during Meckel's cartilage development in the mouse. Trichilis A, et al. **Anat Embryol (Berl)** 1997 Aug;196(2):107–13

Inhibition of cartilage degradation and changes in physical properties induced by IL-1beta and retinoic acid using matrix metalloproteinase inhibitors. Bonassar LJ, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):404–12

Effect of reduced articular function on deposition of type I and type II collagens in the mandibular condylar cartilage of the rat. Pirttiniemi P, et al. **Arch Oral Biol** 1996 Jan; 41(1):127–31

In vitro evidence for a Donnan distribution of Mg2+ and Ca2+ by chondroitin sulphate in cartilage. Günther T, et al. **Arch Toxicol** 1997;71(7):471–5

Alteration of cartilage metabolism by cells from osteoarthritic bone. Westacott CI, et al. **Arthritis Rheum** 1997 Jul; 40(7):1282–91

Cloning of a mouse smoothened cDNA and expression

patterns of hedgehog signalling molecules during chondrogenesis and cartilage differentiation in clonal mouse EC cells, ATDC5. Akiyama H, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):142–7

Cloning of a mRNA preferentially expressed in chondrocytes by differential display–PCR from a human chondrocytic cell line that is identical with connective tissue growth factor (CTGF) mRNA. Nakanishi T, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):206–10

Isothiazolones interfere with normal matrix metalloproteinase activation and inhibit cartilage proteoglycan degradation. Arner EC, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):417–24

Quantification of aggrecan and link–protein mRNA in human articular cartilage of different ages by competitive reverse transcriptase–PCR. Bolton MC, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):489–98

Fibronectin–fragment–induced cartilage chondrolysis is associated with release of catabolic cytokines. Homandberg GA, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):751–7

Developmental regulation of mRNA species for types II, IX and XI collagens during mouse embryogenesis. Perälä M, et al. **Biochem J** 1997 May 15;324 (Pt 1):209–16

Characterization of a cartilage–derived 66–kDa protein (RGD–CAP/beta ig–h3) that binds to collagen. Hashimoto K, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):303–14

Supplementation of calves with stabilized orthosilicic acid. Effect on the Si, Ca, Mg, and P concentrations in serum and the collagen concentration in skin and cartilage. Calomme MR, et al. **Biol Trace Elem Res** 1997 Feb; 56(2):153–65

Wanted––the collagenase responsible for the destruction of the collagen network in human cartilage! [editorial] Martel–Pelletier J, et al. **Br J Rheumatol** 1996 Sep; 35(9):818–20 (19 ref.)

S103L reactive chondroitin sulfate proteoglycan (aggrecan) mRNA expressed in developing chick brain and cartilage is encoded by a single gene. Li H, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):309–21

Estrogen, progesterone and testosterone receptors in human fetal cartilaginous tissue: immunohistochemical studies. Ben–Hur H, et al. **Calcif Tissue Int** 1997 Jun;60(6):520–6

Viable cells are a requirement for in vitro cartilage calcification. Boskey AL, et al. **Calcif Tissue Int** 1996 Mar; 58(3):177–85

Expression of p21CIP1/WAF1 in chondrocytes. Stewart MC, et al. **Calcif Tissue Int** 1997 Sep;61(3):199–204

Serum content of the C–propeptide of the cartilage molecule type II collagen in children. Carey DE, et al. **Clin Exp Rheumatol** 1997 May–Jun;15(3):325–8

Hormonal control of the in vitro uptake of [35S]sulfate by cartilage of Xenopus laevis tadpoles. Schneider A, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jul;117(3):317–22

Inhibition of proteoglycan biosynthesis decreases the calcification of chondrocyte cultures. Hunter GK, et al. **Connect Tissue Res** 1996;35(1–4):379–84

Mouse CD–RAP/MIA gene: structure, chromosomal localization, and expression in cartilage and chondrosarcoma. Bosserhoff AK, et al. **Dev Dyn** 1997 Apr; 208(4):516–25

Collagenase–3 (MMP–13) is expressed by hypertrophic chondrocytes, periosteal cells, and osteoblasts during human fetal bone development. Johansson N, et al. **Dev Dyn** 1997 Mar;208(3):387–97

Early chick limb cartilaginous elements possess polarizing activity and express hedgehog–related morphogenetic factors. Koyama E, et al. **Dev Dyn** 1996 Nov;207(3):344–54

Disproportionate micromelia (Dmm) in mice caused by a mutation in the C–propeptide coding region of Col2a1. Pace JM, et al. **Dev Dyn** 1997 Jan;208(1):25–33

Effects of growth factors and interleukin–1 alpha on proteoglycan and type II collagen turnover in bovine nasal and articular chondrocyte pellet cultures. Xu C, et al. **Endocrinology** 1996 Aug;137(8):3557–65

Effect of growth factors on matrix synthesis by human nasal chondrocytes cultured in monolayer and in agar. Bujía J, et al. **Eur Arch Otorhinolaryngol** 1996;253(6):336–40

Stereoselective distribution of tiaprofenic acid in synovium and cartilage in osteoarthritic patients [see comments] Lapicque F, et al. **Eur J Clin Pharmacol** 1996;50(4):283–7 . Comment in: Eur J Clin Pharmacol 1997;52(3):243–6.

Mouse cathepsin K: cDNA cloning and predominant expression of the gene in osteoclasts, and in some hypertrophying chondrocytes during mouse development. Rantakokko J, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):307–13

Influence of insulin–like growth factors and insulin on the [35S]sulfate uptake by cartilage of the axolotl (Ambystoma mexicanum). Schneider A, et al. **Gen Comp Endocrinol** 1996 Oct;104(1):92–102

The nanomelic mutation in the aggrecan gene is expressed in chick chondrocytes and neurons. Domowicz M, et al. **Int J Dev Neurosci** 1996 Jun;14(3):191–201

Change in the expression of C–type natriuretic peptide and its receptor, B–type natriuretic peptide receptor, during dedifferentiation of chondrocytes into fibroblast–like cells. Hagiwara H, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):264–7

Collagen degradation induced by the combination of IL–1alpha and plasminogen in rabbit articular cartilage explant culture. Saito S, et al. **J Biochem (Tokyo)** 1997 Jul; 122(1):49–54

Inhibition of calcium pyrophosphate dihydrate crystal formation in articular cartilage vesicles and cartilage by phosphocitrate. Cheung HS, et al. **J Biol Chem** 1996 Nov 8;271(45):28082–5

Doxycycline inhibits type X collagen synthesis in avian hypertrophic chondrocyte cultures. Davies SR, et al. **J Biol Chem** 1996 Oct 18;271(42):25966–70

Evidence of the presence of a specific ATPase responsible for ATP–initiated calcification by matrix vesicles isolated from cartilage and bone. Hsu HHT, et al. **J Biol Chem** 1996 Oct 18;271(42):26383–8

Fibronectin lacking the ED–B domain is a major structural component of tracheal cartilage. Stechschulte DJ Jr, et al. **J Biol Chem** 1997 Feb 21;272(8):4783–6

Surface adhesion–mediated regulation of chondrocyte–specific gene expression in the nontransformed RCJ 3.1C5.18 rat chondrocyte cell line. McDougall S, et al. **J Bone Miner Res** 1996 Aug; 11(8):1130–8

Prostaglandin E2 up–regulates insulin–like growth factor binding protein–3 expression and synthesis in human articular chondrocytes by a c–AMP–independent pathway: role of calcium and protein kinase A and C. DiBattista JA, et al. **J Cell Biochem** 1996 Dec 1;63(3):320–33

A–ring analogues of 1, 25–(OH)2D3 with low affinity for the vitamin D receptor modulate chondrocytes via membrane effects that are dependent on cell maturation. Greising DM, et al. **J Cell Physiol** 1997 Jun;171(3):357–67

Constitutive expression of parathyroid hormone–related peptide (PTHrP) stimulates growth and inhibits differentiation of CFK2 chondrocytes. Henderson JE, et al. **J Cell Physiol** 1996 Oct;169(1):33–41

Altered aggrecan synthesis correlates with cell and nucleus structure in statically compressed cartilage. Buschmann MD, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):499–508

Cartilage associated protein (CASP) is a novel developmentally regulated chick embryo protein. Castagnola P, et al. **J Cell Sci** 1997 Jun;110 (Pt 12):1351–9

A 182 bp fragment of the mouse pro alpha 1(II) collagen gene is sufficient to direct chondrocyte expression in transgenic mice. Zhou G, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3677–84

Selective activation of the mitogen–activated protein kinase subgroups c–Jun NH2 terminal kinase and p38 by IL–1 and TNF in human articular chondrocytes. Geng Y, et al. **J Clin Invest** 1996 Nov 15;98(10):2425–30

Fibrillin–1 in human cartilage: developmental expression and formation of special banded fibers. Keene DR, et al. **J Histochem Cytochem** 1997 Aug;45(8):1069–82

ICAM–1/LFA–1 expression in acute osteodestructive joint lesions in collagen–induced arthritis in rats. Seidel MF, et al. **J Histochem Cytochem** 1997 Sep;45(9):1247–53

Stimulation of sulfate and thymidine incorporation into hypophysectomized rat cartilage by growth hormone and insulin–like growth factor–I in vitro: the somatomedin hypothesis revisited [see comments] [published erratum appears in J Lab Clin Med 1997 Jul;130(1):4] Salmon WD Jr, et al. **J Lab Clin Med** 1997 Apr;129(4):430–8. Comment in: J Lab Clin Med 1997 Apr;129(4):398–9.

Discovery of CGS 27023A, a non–peptidic, potent, and orally active stromelysin inhibitor that blocks cartilage degradation in rabbits. MacPherson LJ, et al. **J Med Chem** 1997 Aug 1;40(16):2525–32

Differential regulation of type–II and type–X collagen synthesis by parathyroid hormone–related protein in chick growth–plate chondrocytes. O'Keefe RJ, et al. **J Orthop Res** 1997 Mar;15(2):162–74

Adenovirus vector–mediated gene transduction to chondrocytes: in vitro evaluation of therapeutic efficacy of transforming growth factor–beta 1 and heat shock protein 70 gene transduction. Arai Y, et al. **J Rheumatol** 1997 Sep;24(9):1787–95

The serine proteinase inhibitor antileukoproteinase specifically accumulates in normal but not in arthritic cartilage. Burkhardt H, et al. **J Rheumatol** 1997 Jun; 24(6):1145–54

Parathyroid hormone prevents 1,25 (OH)2D3 induced down–regulation of the vitamin D receptor in growth plate chondrocytes in vitro. Klaus G, et al. **Kidney Int** 1997 Jul; 52(1):45–51

Primary cultured chondrocytes of different origins respond differently to bFGF and TGF–beta. Lee JD, et al. **Life Sci** 1997;61(3):293–9

Expression of collagen types IX and XI and other major cartilage matrix components by human fetal chondrocytes in vivo. Vornehm SI, et al. **Matrix Biol** 1996 Jul;15(2):91–8

Antibody specific for extra domain B of fibronectin demonstrates elevated levels of both extra domain B(+) and B(–) fibronectin in osteoarthritic canine cartilage. Zang DW, et al. **Matrix Biol** 1995 Oct;14(8):623–33

Nitric oxide and cartilage metabolism. Evans CH, et al. **Methods Enzymol** 1996;269:75–88 (61 ref.)

Cartilage and subchondral bone interaction in osteoarthrosis of human knee joint: a histological and histomorphometric study. Matsui H, et al. **Microsc Res Tech** 1997 May 15; 37(4):333–42 (22 ref.)

Growth hormone stimulates the secretion of insulin–like growth factor binding protein–2 (IGFBP–2) by monolayer cultures of sheep costal growth plate chondrocytes. Borromeo V, et al. **Mol Cell Biochem** 1996 Sep 20; 162(2):145–51

SOX9 is a potent activator of the chondrocyte–specific enhancer of the pro alpha1(II) collagen gene. Lefebvre V, et al. **Mol Cell Biol** 1997 Apr;17(4):2336–46

Rat maf related genes: specific expression in chondrocytes, lens and spinal cord. Sakai M, et al. **Oncogene** 1997 Feb 13;14(6):745–50

Activation of fibrillar collagen synthesis and phenotypic modulation of chondrocytes in early human osteoarthritic cartilage lesions. Aigner T, et al. **Osteoarthritis Cartilage** 1997 May;5(3):183–9

Elevated levels of insulin–like growth factor (IGF) binding protein–3 in rheumatoid arthritis synovial fluid inhibit stimulation by IGF–I of articular chondrocyte proteoglycan synthesis. Neidel J, et al. **Rheumatol Int** 1997; 17(1):29–37

The evidence for the incorporation of fulvic acid into the bone and cartilage of rats. Wang C, et al. **Sci Total Environ** 1996 Nov 22;191(3):197–202

Relation of TGF–beta 2 to inhibition of limb bud chondrogenesis by retinoid in rats. Tsuiki H, et al. **Teratology** 1996 Oct;54(4):191–7

PATHOLOGY

Giant–cell chondrodysplasia in a male infant with clinical and radiological findings resembling the Piepkorn type of lethal osteochondrodysplasia. Urioste M, et al. **Am J Med Genet** 1997 Jan 31;68(3):342–6

Quinolone–induced cartilage lesions are not reversible in rats. Förster C, et al. **Arch Toxicol** 1996;70(8):474–81

Capsular chondroid metaplasia following total hip arthroplasty. Wilson T, et al. **Aust N Z J Surg** 1997 May; 67(5):298–300

Possible monocytic origin of chondrosarcoma: in vitro transdifferentiation of HLA–DR blood monocyte–like cells from a patient with chondrosarcoma, into neo–fibroblasts and chondrocyte–like cells. Labat ML, et al. **Biomed Pharmacother** 1997;51(2):79–93

Fibroblasts of spinal ligaments pathologically differentiate into chondrocytes induced by recombinant human bone morphogenetic protein–2: morphological examinations for ossification of spinal ligaments. Hoshi K, et al. **Bone** 1997 Aug;21(2):155–62

Calcium crystals and cartilage damage [see comments] McCarthy GM. **Curr Opin Rheumatol** 1996 May;8(3):255–8 (30 ref.). Comment in: Curr Opin Rheumatol 1996 May;8(3):235–7.

Primitive neuroectodermal tumour of the uterus with focal cartilaginous differentiation. Fraggetta F, et al. **Histopathology** 1997 May;30(5):483–5

Pure cartilaginous teratoma differentiated of the testis. Singh N, et al. **Histopathology** 1997 Apr;30(4):373–4

Peripheral odontogenic fibroma with chondroid differentiation. Sen R, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):313–5

Pharyngeal lipoma with cartilaginous metaplasia (chondrolipoma): a case report and literature review. Nwaorgu OG, et al. **J Laryngol Otol** 1997 Jul;111(7):656–8 (11 ref.)

Intramedullary astrocytoma with cartilage formation. Case report. Maleci A, et al. **J Neurosurg Sci** 1996 Jun; 40(2):157–60

Pustulotic arthro–osteitis associated with acetabular cartilage lesion in pustulotic arthropathy––implication of bone marrow. Seki K, et al. **J Rheumatol** 1997 May;24(5):971–3

Epigenetic selection as a possible component of transdifferentiation. Further study of the commitment of hypertrophic chondrocytes to become osteocytes. Erenpreisa J, et al. **Mech Ageing Dev** 1996 Jun 25; 87(3):165–82

In vitro and in vivo antineoplastic effects of orthovanadate. Cruz TF, et al. **Mol Cell Biochem** 1995 Dec 6–20; 153(1–2):161–6

Atypical cartilage in reactive osteocartilagenous metaplasia of the traumatized edentulous mandibular ridge. Daley TD, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):26–9

Localized amyloid in the menisci of the knee joint. Rumpelt HJ, et al. **Pathol Res Pract** 1996 Jun;192(6):547–51

Hyaline cartilage at porta hepatis in extrahepatic biliary atresia. Mirkin LD, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):587–91

The costal cartilages in health and disease. Ontell FK, et al. **Radiographics** 1997 May–Jun;17(3):571–7

Globular smooth–tubule aggregates in thanatophoric dwarfs. Hwang WS, et al. **Ultrastruct Pathol** 1996 May–Jun; 20(3):219–22

[Effect of collagen on magnetization transfer contrast assessed in cultured cartilage] Aoki J, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):877–9 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Evaluation of the catabolic activity of cartilage by measurement of serum keratan sulfate concentration in foals. Okumura M, et al. **Am J Vet Res** 1997 Aug; 58(8):925–9

Tibial segmental defect repair: chondrogenesis and biomechanical strength modulated by basic fibroblast growth factor. Andreshak JL, et al. **Anat Rec** 1997 Jun; 248(2):198–204

Bone morphogenetic proteins and C–FOS: early signals in

endochondral bone formation. Kaplan FS, et al. **Bone** 1996 Jul;19(1 Suppl):13S–21S (69 ref.)
Fourier transform infrared microspectroscopic analysis identifies alterations in mineral properties in bones from mice transgenic for type X collagen. Paschalis EP, et al. **Bone** 1996 Aug;19(2):151–6
Relationship between ossification of the cartilages of the foot and conformation and radiographic measurements of the front feet in Finnhorses. Ruohoniemi M, et al. **Equine Vet J** 1997 Jan;29(1):44–8
Androgen–dependent and independent process of bone formation in the distal segment of Os penis in the rat. Murakami R, et al. **Eur J Morphol** 1995 Nov;33(4):393–400
Cytokine control of interstitial collagenase and collagenase–3 gene expression in human chondrocytes. Borden P, et al. **J Biol Chem** 1996 Sep 20;271(38):23577–81
Thermal and diffusion processes in laser–induced stress relaxation and reshaping of cartilage. Bagratashvili VN, et al. **J Biomech** 1997 Aug;30(8):813–7
Resorbable polyesters in cartilage engineering: affinity and biocompatibility of polymer fiber structures to chondrocytes. Sittinger M, et al. **J Biomed Mater Res** 1996 Summer;33(2):57–63
Involvement of alpha5beta1 integrin in matrix interactions and proliferation of chondrocytes. Enomoto–Iwamoto M, et al. **J Bone Miner Res** 1997 Jul;12(7):1124–32
Expression of bone–specific genes by hypertrophic chondrocytes: implication of the complex functions of the hypertrophic chondrocyte during endochondral bone development. Gerstenfeld LC, et al. **J Cell Biochem** 1996 Jul;62(1):1–9 (59 ref.)
Rostrocaudal gradient of mechanical advantage in the parasternal intercostal muscles of the dog. De Troyer A, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):239–46
Estimation of sex and age by calcification pattern of costal cartilage in Japanese. Inoi T. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):89–94
Tissue transglutaminase and factor XIII in cartilage and bone remodeling. Aeschlimann D, et al. **Semin Thromb Hemost** 1996;22(5):437–43 (45 ref.)
[The replacement processes of growth plate cartilage to bone in endochondral ossification of mandibular condyle] Sasaki T, et al. **Kaibogaku Zasshi** 1996 Apr;71(2):106–14 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Potential of tetracyclines to modify cartilage breakdown in osteoarthritis [see comments] Ryan ME, et al. **Curr Opin Rheumatol** 1996 May;8(3):238–47 (76 ref.). Comment in: Curr Opin Rheumatol 1996 May;8(3):235–7.
Cartilage damage as a result of hemarthrosis in a human in vitro model. Roosendaal G, et al. **J Rheumatol** 1997 Jul; 24(7):1350–4
Effects of sex and age on the ossification of the collateral cartilages of the distal phalanx of the Finnhorse and the relationships between ossification and body size and type of horse. Ruohoniemi M, et al. **Res Vet Sci** 1997 Jan–Feb; 62(1):34–8

RADIATION EFFECTS

Thermal and diffusion processes in laser–induced stress relaxation and reshaping of cartilage. Bagratashvili VN, et al. **J Biomech** 1997 Aug;30(8):813–7
[Possibilities of the use of surgical laser irradiation in spontaneous formation of cartilage tissue in ENT plastic surgery] Ovchinnikov IuM, et al. **Vestn Otorinolaringol** 1996 May–Jun;(3):21–2 (Eng. Abstr.) **(Rus)**
[Experimental study of biological tissue permeability to Nd–YAG laser irradiation with wave length 1.06 and 1.32 mm] Semenov FV. **Vestn Otorinolaringol** 1997;(3):38–41 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Multiple myeloma involving the thyroid cartilage. Van Dyke CW, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):570–2
The costal cartilages in health and disease. Ontell FK, et al. **Radiographics** 1997 May–Jun;17(3):571–7
[A comparative evaluation of the optical density of the bone and cartilage tissue of human symphyses] Neznakomtseva EP. **Sud Med Ekspert** 1997 Jul–Sep;40(3):10–4 (Eng. Abstr.) **(Rus)**

SECRETION

Undersulfated beta–D–xyloside glycosaminoglycans are secreted in the presence of the ionophore monensin. Kajiwara T, et al. **FEBS Lett** 1981 Nov 2;134(1):43–6

SURGERY

Non–serratus–sparing antero–axillary thoracotomy with disconnection of anterior rib cartilage. Improvement in postoperative pulmonary function and pain in comparison to posterolateral thoracotomy. Nomori H, et al. **Chest** 1997 Mar;111(3):572–6
The dimensions and vascular anatomy of the cricothyroid membrane: relevance to emergent surgical airway access. Dover K, et al. **Clin Anat** 1996;9(5):291–5
Cartilage grafts for the nasal tip. Zijlker TD, et al. **Clin Otolaryngol** 1993 Dec;18(6):446–58
Do laws of biomechanics work in reconstruction of the cartilaginous nasal septum? Lopatin AS. **Eur Arch Otorhinolaryngol** 1996;253(4–5):309–12
Suture correction of nasal tip cartilage concavities. Neu BR. **Plast Reconstr Surg** 1996 Nov;98(6):971–9
[Costal chondritis treated by resection of the entire costal arch] Shibata K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Aug; 34(8):890–3 (Eng. Abstr.) **(Jpn)**
[Tragus perichondrium and cartilage, temporal fascia in tympanoplasty] Shadyev KhD, et al. **Vestn Otorinolaringol** 1997;(4):46–7 (Eng. Abstr.) **(Rus)**

TRANSPLANTATION

A critical analysis of cartilage repair [letter; comment] Brittberg M, et al. **Acta Orthop Scand** 1997 Apr; 68(2):186–91. Comment on: Acta Orthop Scand 1996 Oct;67(5):523–9.
Use of costal cartilage in middle ear surgery. Decat M, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):17–21
Combined aesthetic and functional treatment of microtia. Meyer R, et al. **Aesthetic Plast Surg** 1997 May–Jun; 21(3):159–67
Iliac apophyseal cartilage augmentation of the deficient piriform rim and maxilla in alveolar cleft grafting. Kokkinos PP, et al. **Am J Orthod Dentofacial Orthop** 1997 Aug; 112(2):145–53
How to harvest a septal chondromucosal graft [see comments] Harashina T, et al. **Ann Plast Surg** 1996 Dec; 37(6):676–7. Comment in: Ann Plast Surg 1997 Jul;39(1):106.
Re: How to harvest a septal chondromucosal graft [letter; comment] Tellioğlu AT. **Ann Plast Surg** 1997 Jul;39(1):106 . Comment on: Ann Plast Surg 1996 Dec;37(6):676–7.
Augmentation with cartilage grafts around the pyriform aperture to improve the midface and profile in binder's syndrome. Watanabe T, et al. **Ann Plast Surg** 1996 Feb; 36(2):206–11
Use of alar batten grafts for correction of nasal valve collapse. Toriumi DM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):802–8
Fetal chondral homografts in the repair of articular cartilage defects. Specchia N, et al. **Bull Hosp Jt Dis** 1996; 54(4):230–5
Changing the nasal tip: part V (of VI parts). Berman WE. **Ear Nose Throat J** 1996 Apr;75(4):198
Surgical pearl: the use of free cartilage grafts in nasal alar reconstruction. Ratner D, et al. **J Am Acad Dermatol** 1997 Apr;36(4):622–4
Experience in tracheobronchial reconstruction with a costal cartilage graft for congenital tracheal stenosis. Kamata S, et al. **J Pediatr Surg** 1997 Jan;32(1):54–7
Hearing results with cartilage tympanoplasty. Dornhoffer JL. **Laryngoscope** 1997 Aug;107(8):1094–9
Cartilage viability with interpolated skin flaps: an experimental study. Park SS, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):483–8
Distraction osteogenesis of costochondral neomandibles: a clinical experience. Corcoran J, et al. **Plast Reconstr Surg** 1997 Aug;100(2):311–5; discussion 316–7
Internal stabilization of autogenous rib cartilage grafts in rhinoplasty: a barrier to cartilage warping. Gunter JP, et al. **Plast Reconstr Surg** 1997 Jul;100(1):161–9
Lateral crural strut graft: technique and clinical applications in rhinoplasty. Gunter JP, et al. **Plast Reconstr Surg** 1997 Apr;99(4):943–52; discussion 953–5
A full–thickness chondrocutaneous flap from the auricular concha for repair of tracheal defects. Koshima I, et al. **Plast Reconstr Surg** 1997 Jun;99(7):1887–93
Chest wall deformities and thoracic scoliosis after costal cartilage graft harvesting. Ohara K, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1030–6
Wrap–around cartilage flap for correction of unilateral cleft lip nose deformity. Peled IJ, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2085–8
The rectus abdominis myocutaneous flap combined with vascularized costal cartilages in reconstructive craniofacial surgery. Yamamoto Y, et al. **Plast Reconstr Surg** 1997 Aug; 100(2):439–44; discussion 445–6
Porcine and bovine cartilage transplants in cynomolgus monkey: II. Changes in anti–Gal response during chronic rejection. Galili U, et al. **Transplantation** 1997 Mar 15; 63(5):646–51
Porcine and bovine cartilage transplants in cynomolgus monkey: I. A model for chronic xenograft rejection. Stone KR, et al. **Transplantation** 1997 Mar 15;63(5):640–5
[An experimental study on changes in collagen content after homologous cartilage implantation] Hou C, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):274–6 (Eng. Abstr.) **(Chi)**
[Enlargement plasty of the acetabulum by vascularized iliac crest cartilage transfer in children] Clément JL, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):636–42 (Eng. Abstr.) **(Fre)**
[Using cartilage in middle ear surgery] Hildmann H, et al. **HNO** 1996 Oct;44(10):597–602 (10 ref.) **(Ger)**
[In vitro cultivation of human chondrocytes using autologous human serum supplemented culture medium: minimizing possible risk of infection with pathogens of prion diseases] Gruber R, et al. **Laryngorhinootologie** 1996 Feb;75(2):105–8 (Eng. Abstr.) **(Ger)**
[Postoperative pain therapy using on–demand analgesia after external ear reconstruction with rib cartilage harvesting] Lindig M, et al. **Laryngorhinootologie** 1997 Jun; 76(6):379–83 (Eng. Abstr.) **(Ger)**
[Transplantation of in vitro cultured cartilage materials: characterization of matrix synthesis] Rotter N, et al. **Laryngorhinootologie** 1997 Apr;76(4):241–7 (Eng. Abstr.) **(Ger)**
[Proliferative potential of nasal septum chondrocytes for in vitro culture of cartilage transplants] Sittinger M, et al. **Laryngorhinootologie** 1997 Feb;76(2):96–100 (Eng. Abstr.) **(Ger)**
[The principle of autogeneic rib perichondrial transplantation in the treatment of deep articular cartilage defects] Bruns J, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar–Apr; 135(2):138–44 (Eng. Abstr.) **(Ger)**
[A method for autologous osteochondroplasty in extensive defects of the femur head] Marakusha IG, et al. **Vestn Khir Im I I Grek** 1996;155(2):95–8 **(Rus)**

ULTRASONOGRAPHY

Ultrasonographic assessment of local steroid injection in Tietze's syndrome. Kamel M, et al. **Br J Rheumatol** 1997 May;36(5):547–50
[Ultrasound measurement of skin and cartilage thickness in healthy and reconstructed ears with a 20–MHz ultrasound device] Danter J, et al. **Laryngorhinootologie** 1996 Feb; 75(2):91–4 (Eng. Abstr.) **(Ger)**

ULTRASTRUCTURE

An ultrastructural study of the perichondrium in cartilages of the chick embryo. Bairati A, et al. **Anat Embryol (Berl)** 1996 Aug;194(2):155–67
Ultrastructure of fibrocartilages at the insertion of the rat Achilles tendon. Rufai A, et al. **J Anat** 1996 Aug;189 (Pt 1):185–91
Cartilage and bone morphology in osteochondritis dissecans. Koch S, et al. **Knee Surg Sports Traumatol Arthrosc** 1997; 5(1):42–5
Regional differences of dura osteoinduction: squamous dura induces osteogenesis, sutural dura induces chondrogenesis and osteogenesis. Yu JC, et al. **Plast Reconstr Surg** 1997 Jul;100(1):23–31
Globular smooth–tubule aggregates in thanatophoric dwarfs. Hwang WS, et al. **Ultrastruct Pathol** 1996 May–Jun; 20(3):219–22
[Cellular viability of cryopreserved cartilage grafts] Viviente E, et al. **Acta Otorrinolaringol Esp** 1996 Jul–Aug; 47(4):263–7 (Eng. Abstr.) **(Spa)**

CARTILAGE, ARTICULAR

Chondrolysis of the shoulder following a "color test"–assisted rotator cuff repair—a report of 2 cases. Tamai K, et al. **Acta Orthop Scand** 1997 Aug;68(4):401–2
Tribological evaluation of oxidized zirconium using an articular cartilage counterface: a novel material for potential use in hemiarthroplasty. Patel AM, et al. **Biomaterials** 1997 Mar;18(5):441–7
Cartilage as a target organ in arthritis: new approaches. Rothschild BM. **Compr Ther** 1996 Nov;22(11):727–30 (18 ref.)
Were the Hunter brothers wrong? Can surgical treatment repair articular cartilage? Buckwalter JA. **Iowa Orthop J** 1997;17:1–13 (75 ref.)
Evaluation of matrix scaffolds for tissue engineering of articular cartilage grafts. Grande DA, et al. **J Biomed Mater Res** 1997 Feb;34(2):211–20
Chondromalacia of the trochlear notch in athletes who throw. Robla J, et al. **J Shoulder Elbow Surg** 1996 Jan–Feb; 5(1):69–72
A new method of xenotransplantation using autologous cartilage as an immunoisolation barrier for the transplantation of xenogeneic islets of Langerhans. Pollok JM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):909–11
[Ulnodorsal impingement syndrome: meniscus lesions of the wrist] Schütz K, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):227–32 (Eng. Abstr.) **(Ger)**

ABNORMALITIES

Central perforation of the articular disc of the triangular fibrocartilage complex in a 17–year–old girl: could it be congenital? Kaempffe FA. **Am J Orthop** 1997 Aug; 26(8):565–7
Maturation–dependent repair of untreated osteochondral defects in the rabbit knee joint. Wei X, et al. **J Biomed Mater Res** 1997 Jan;34(1):63–72
Dysplasia epiphysealis hemimelica. Phillips DR, et al. **J South Orthop Assoc** 1997 Summer;6(2):106–9
[Fusion of vertebrae and the sacroiliac joint by cartilaginous tissue in HLA–B27 transgenic rats] Kriegsmann J, et al. **Verh Dtsch Ges Pathol** 1996;80:334 **(Ger)**

ANATOMY & HISTOLOGY

Articular cartilage surface changes following immobilization of the rat knee joint. A semiquantitative scanning electron–microscopic study. Hong SP, et al. **Acta Anat (Basel)** 1996;157(1):27–40
MR imaging of the acetabular labrum: variations in 200 asymptomatic hips. Lecouvet FE, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1025–8
Neandertal capitate–metacarpal articular morphology.

Niewoehner WA, et al. **Am J Phys Anthropol** 1997 Jun; 103(2):219–33

Frequency and distribution of articular tissue features in adult human mandibular condyles: a semiquantitative light microscopic study. Luder HU. **Anat Rec** 1997 May; 248(1):18–28

Thickness distribution of the subchondral mineralization zone of the trochlear notch and its correlation with the cartilage thickness: an expression of functional adaptation to mechanical stress acting on the humeroulnar joint? Milz S, et al. **Anat Rec** 1997 Jun;248(2):189–97

Rotational acetabular osteotomies: a rabbit model. Yasunaga Y, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):74–6

MRI appearance of the articular cartilage in the knee according to age. Dalla Palma L, et al. **J Belge Radiol** 1997 Feb;80(1):17–20

Non-invasive determination of cartilage thickness throughout joint surfaces using magnetic resonance imaging. Eckstein F, et al. **J Biomech** 1997 Mar;30(3):285–9

Regional variations of indentation stiffness and thickness of normal rabbit knee articular cartilage. Räsänen T, et al. **J Biomed Mater Res** 1996 Aug;31(4):519–24

The structure of avian cartilage: a combined X-ray and biochemical analysis. Wess TJ, et al. **J Comp Pathol** 1997 Feb;116(2):145–55

Functional anatomy of the triangular fibrocartilage complex. Nakamura T, et al. **J Hand Surg [Br]** 1996 Oct;21(5):581–6

Optimization of a dual echo in the steady state (DESS) free-precession sequence for imaging cartilage. Hardy PA, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):329–35

Incidental magnetization transfer contrast in fast spin-echo imaging of cartilage. Yao L, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):180–4

Morphometric investigation of condylar cartilage and disc thickness in the human temporomandibular joint: significance for the definition of ostearthrotic changes. Stratmann U, et al. **J Oral Pathol Med** 1996 May; 25(5):200–5

Anatomy of the human patellofemoral joint articular cartilage: surface curvature analysis. Kwak SD, et al. **J Orthop Res** 1997 May;15(3):468–72

Investigation of laminar appearance of articular cartilage by means of magnetic resonance microscopy. Mlynárik V, et al. **Magn Reson Imaging** 1996;14(4):435–42

Determination of knee joint cartilage thickness using three-dimensional magnetic resonance chondro-crassometry (3D MR-CCM). Eckstein F, et al. **Magn Reson Med** 1996 Aug;36(2):256–65

Short TE MR microscopy: accurate measurement and zonal differentiation of normal hyaline cartilage. Freeman DM, et al. **Magn Reson Med** 1997 Jul;38(1):72–81

The use of active shape models for making thickness measurements of articular cartilage from MR images. Solloway S, et al. **Magn Reson Med** 1997 Jun;37(6):943–52

Hyaline cartilage: truncation artifact as a cause of trilaminar appearance with fat-suppressed three-dimensional spoiled gradient-recalled sequences [see comments] Erickson SJ, et al. **Radiology** 1996 Oct;201(1):260–4. Comment in: Radiology 1997 Jul;204(1):15–6; discussion 17–8.

Laminar structures on MR images of articular cartilage [letter; comment] Rubenstein J, et al. **Radiology** 1997 Jul; 204(1):15–6; discussion 17–8. Comment on: Radiology 1996 Oct;201(1):260–4.

Effects of compression and recovery on bovine articular cartilage: appearance on MR images. Rubenstein JD, et al. **Radiology** 1996 Dec;201(3):843–50

Hyaline cartilage: in vivo and in vitro assessment with magnetization transfer imaging. Seo GS, et al. **Radiology** 1996 Nov;201(2):525–30

Sublabral recess of the superior glenoid labrum: study of cadavers with conventional nonenhanced MR imaging, MR arthrography, anatomic dissection, and limited histologic examination. Smith DK, et al. **Radiology** 1996 Oct; 201(1):251–6

Assessment of normal patellar cartilage volume and thickness using MRI: an analysis of currently available pulse sequences. Sittek H, et al. **Skeletal Radiol** 1996 Jan; 25(1):55–62

MR imaging of articular cartilage in the ankle: comparison of available imaging sequences and methods of measurement in cadavers. Tan TC, et al. **Skeletal Radiol** 1996 Nov;25(8):749–55

[Determination of cartilage thickness in the ankle joint. an MRT (1.5)-anatomical comparative study] Trattnig S, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):303–6 (Eng. Abstr.) **(Ger)**

[Imaging of hip joint cartilage and its significance for the intertrochanteric transposition osteotomies in coxarthrosis] Bernd L, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul–Aug; 134(4):366–70 (41 ref.) (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

The influence of subchondral vascularisation on chondromalacia patellae. Neusel E, et al. **Arch Orthop Trauma Surg** 1996;115(6):313–5

Degenerative joint disease: cartilage or vascular disease? Imhof H, et al. **Skeletal Radiol** 1997 Jul;26(7):398–403

CHEMISTRY

A multiwell plate procedure for immunohistochemical and histochemical staining of constituents of articular cartilage. Müller G, et al. **Acta Histochem** 1996 Jul;98(3):333–44

Biochemical, histochemical, and immunohistochemical characterization of distal tibial osteochondrosis in horses. Lillich JD, et al. **Am J Vet Res** 1997 Jan;58(1):89–98

Chondrocytes synthesize type I collagen and accumulate the protein in the matrix during development of rat tibial articular cartilage. Sasano Y, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):247–52

An immunohistochemical study of regional differences in the distribution of type I and type II collagens in rat mandibular condylar cartilage. Mizoguchi I, et al. **Arch Oral Biol** 1996 Aug–Sep;41(8–9):863–9

Changes in messenger RNA and protein levels of proteoglycans and link protein in human osteoarthritic cartilage samples. Cs-Szabó G, et al. **Arthritis Rheum** 1997 Jun;40(6):1037–45

Bone morphogenetic protein 2 stimulates articular cartilage proteoglycan synthesis in vivo but does not counteract interleukin-1alpha effects on proteoglycan synthesis and content. Glansbeek HL, et al. **Arthritis Rheum** 1997 Jun; 40(6):1020–8

Growth factor regulation of chondrocyte integrins. Differential effects of insulin-like growth factor 1 and transforming growth factor beta on alpha 1 beta 1 integrin expression and chondrocyte adhesion to type VI collagen. Loeser RF. **Arthritis Rheum** 1997 Feb;40(2):270–6

Human chondrocyte expression of growth-arrest-specific gene 6 and the tyrosine kinase receptor axl: potential role in autocrine signaling in cartilage. Loeser RF, et al. **Arthritis Rheum** 1997 Aug;40(8):1455–65

Major role of collagen IIB in the elevation of total type II procollagen messenger RNA in the hypertrophic phase of experimental osteoarthritis. Matyas JR, et al. **Arthritis Rheum** 1997 Jun;40(6):1046–9

Isolation and partial characterization of a high molecular weight anionic glycoconjugate from transforming growth factor-beta treated bovine articular chondrocyte cultures. Chan CK, et al. **Biochem Cell Biol** 1996;74(2):233–40

Characterization of a non-reducing terminal fragment from bovine articular cartilage keratan sulphates containing alpha(2–3)-linked sialic acid and alpha(1–3)-linked fucose. A sulphated variant of the VIM-2 epitope. Brown GM, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):137–41

A novel keratan sulphate domain preferentially expressed on the large aggregating proteoglycan from human articular cartilage is recognized by the monoclonal antibody 3D12/H7. Fischer DC, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1051–6

Purification and characterisation of 6 and 58 kDa forms of the endogenous serine proteinase inhibitory proteins of ovine articular cartilage. Rodgers KJ, et al. **Biol Chem** 1996 Dec;377(12):837–45

Purification of a noncollagenous high molecular weight protein from bovine articular cartilage. Onodera S, et al. **Biol Pharm Bull** 1996 Jan;19(1):11–7

Localization of insulin-like growth factor-1 receptor in human normal and osteoarthritic cartilage in relation to proteoglycan synthesis and content. Verschure PJ, et al. **Br J Rheumatol** 1996 Nov;35(11):1044–55

Type II collagen and TGF-betas in developing and aging porcine mandibular condylar cartilage: immunohistochemical studies. Moroco JR, et al. **Cell Tissue Res** 1997 Jul;289(1):119–24

Quantitative and qualitative analyses of proteoglycans in cartilage extracts by precipitation with 1,9-dimethylmethylene blue. Müller G, et al. **Connect Tissue Res** 1996;33(4):243–8

The structure of the keratan sulphate chains attached to fibromodulin isolated from articular cartilage. Lauder RM, et al. **Eur J Biochem** 1996 Dec 1;242(2):402–9

Expression of cartilage oligomeric matrix protein by human synovium. Di Cesare PE, et al. **FEBS Lett** 1997 Jul 21; 412(1):249–52

Specimen preparation and quantification of collagen birefringence in unstained sections of articular cartilage using image analysis and polarizing light microscopy. Király K, et al. **Histochem J** 1997 Apr;29(4):317–27

Structural colocalisation of type VI collagen and fibronectin in agarose cultured chondrocytes and isolated chondrons extracted from adult canine tibial cartilage. Chang J, et al. **J Anat** 1997 May;190 (Pt 4):523–32

Variations in the chondroitin sulfate-protein linkage region of aggrecans from bovine nasal and human articular cartilages. Cheng F, et al. **J Biol Chem** 1996 Nov 8; 271(45):28572–80

Contents and distributions of the proteoglycans decorin and biglycan in normal and osteoarthritic human articular cartilage. Poole AR, et al. **J Orthop Res** 1996 Sep; 14(5):681–9

Analysis of human articular chondrocyte CD44 isoform expression and function in health and disease. Salter DM, et al. **J Pathol** 1996 Aug;179(4):396–402

Collagen type in dysfunctional temporomandibular joint disks. Gage JP, et al. **J Prosthet Dent** 1995 Nov; 74(5):517–20

Evidence for a distinct water-rich layer surrounding collagen fibrils in articular cartilage extracellular matrix. Studer D, et al. **J Struct Biol** 1996 Sep–Oct;117(2):81–5

In vivo sodium multiple quantum spectroscopy of human articular cartilage. Reddy R, et al. **Magn Reson Med** 1997 Aug;38(2):207–14

Triple quantum sodium imaging of articular cartilage. Reddy R, et al. **Magn Reson Med** 1997 Aug;38(2):279–84

Cartilage fibronectin isoforms: in search of functions for a special population of matrix glycoproteins. Burton-Wurster N, et al. **Matrix Biol** 1997 Mar;15(7):441–54 (118 ref.)

Analysis of proteoglycan messages in human articular cartilage by a competitive PCR technique. Melching LI, et al. **Matrix Biol** 1997 Apr;16(1):1–11

Immunolocalization of type IX collagen in normal and spontaneously osteoarthritic canine tibial cartilage and isolated chondrons. Poole CA, et al. **Osteoarthritis Cartilage** 1997 May;5(3):191–204

Association of magnesium whitlockite crystals with lipid components of the extracellular matrix in human articular cartilage. Scotchford CA, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):107–19

Equine dyschondroplasia (osteochondrosis)--histological findings and type VI collagen localization. Henson FM, et al. **Vet J** 1997 Jul;154(1):53–62

[Current concepts on cartilage collagens and their association with disease] Weckmann AL, et al. **Rev Invest Clin** 1996 Jul–Aug;48(4):311–9 (319 ref.) (Eng. Abstr.) **(Spa)**

CYTOLOGY

Adult human chondrocytes cultured in alginate form a matrix similar to native human articular cartilage. Häuselmann HJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C742–52

Modulation of matrix metalloprotease 13 (collagenase 3) gene expression in equine chondrocytes by interleukin 1 and corticosteroids. Caron JP, et al. **Am J Vet Res** 1996 Nov; 57(11):1631–4

Three-dimensional culture of canine articular chondrocytes on multiple transplantable substrates. Cook JL, et al. **Am J Vet Res** 1997 Apr;58(4):419–24

Altered biological activity of equine chondrocytes cultured in a three-dimensional fibrin matrix and supplemented with transforming growth factor beta-1. Fortier LA, et al. **Am J Vet Res** 1997 Jan;58(1):66–70

Maintenance of equine articular cartilage explants in serum-free and serum-supplemented media, compared with that in a commercial supplemented medium. Kawcak CE, et al. **Am J Vet Res** 1996 Sep;57(9):1261–5

Development and ageing of the articular cartilage of the rabbit knee joint: distribution of the fibrillar collagens. Bland YS, et al. **Anat Embryol (Berl)** 1996 Dec; 194(6):607–19

Video microscopy to quantitate the inhomogeneous equilibrium strain within articular cartilage during confined compression. Schinagl RM, et al. **Ann Biomed Eng** 1996 Jul–Aug;24(4):500–12

Suppression of cartilage matrix gene expression in upper zone chondrocytes of osteoarthritic cartilage. Aigner T, et al. **Arthritis Rheum** 1997 Mar;40(3):562–9

Recombinant human osteogenic protein 1 is a potent stimulator of the synthesis of cartilage proteoglycans and collagens by human articular chondrocytes. Flechtenmacher J, et al. **Arthritis Rheum** 1996 Nov; 39(11):1896–904

Effects of nitric oxide on chondrocyte migration, adhesion, and cytoskeletal assembly. Frenkel SR, et al. **Arthritis Rheum** 1996 Nov;39(11):1905–12

Nitric oxide production by superficial and deep articular chondrocytes. Hayashi T, et al. **Arthritis Rheum** 1997 Feb; 40(2):261–9

Growth factor regulation of chondrocyte integrins. Differential effects of insulin-like growth factor 1 and transforming growth factor beta on alpha 1 beta 1 integrin expression and chondrocyte adhesion to type VI collagen. Loeser RF. **Arthritis Rheum** 1997 Feb;40(2):270–6

Enhancement of cartilage matrix protein synthesis in arthritic cartilage. Okimura A, et al. **Arthritis Rheum** 1997 Jun; 40(6):1029–36

Transglutaminase activity in aging articular chondrocytes and articular cartilage vesicles. Rosenthal AK, et al. **Arthritis Rheum** 1997 May;40(5):966–70

Influence of fibrin sealant (Tisseel) on osteochondral defect repair in the rabbit knee. Brittberg M, et al. **Biomaterials** 1997 Feb;18(3):235–42

Human chondrocytes proliferate and produce matrix components in microcarrier suspension culture. Frondoza C, et al. **Biomaterials** 1996 May;17(9):879–88

Matrix collagen type and pore size influence behaviour of seeded canine chondrocytes. Nehrer S, et al. **Biomaterials** 1997 Jun;18(11):769–76

Characterization of the PGE2 receptor subtype in bovine chondrocytes in culture. de Brum-Fernandes AJ, et al. **Br J Pharmacol** 1996 Aug;118(7):1597–604

Immunological response against allogeneic chondrocytes transplanted into joint surface defects in rats. Hyc A, et al. **Cell Transplant** 1997 Mar–Apr;6(2):119–24

Extracellular nucleotides act through P2U purinoceptors to elevate [Ca2+]i and enhance basic fibroblast growth factor-induced proliferation in sheep chondrocytes. Kaplan AD, et al. **Endocrinology** 1996 Nov;137(11):4757–66

Nitric oxide production by equine articular cells in vitro [see comments] Frean SP, et al. **Equine Vet J** 1997 Mar; 29(2):98–102. Comment in: Equine Vet J 1997 Mar;29(2):86–7.

Syndecan-3 and the control of chondrocyte proliferation during endochondral ossification. Shimazu A, et al. **Exp Cell Res** 1996 Nov 25;229(1):126–36

Apoptosis of chondrocytes in transgenic mice lacking collagen II. Yang C, et al. **Exp Cell Res** 1997 Sep 15;

235(2):370–3
The cellular physiology of articular cartilage. Hall AC, et al. **Exp Physiol** 1996 May;81(3):535–45 (29 ref.)
Confocal analysis of the molecular heterogeneity in the pericellular microenvironment produced by adult canine chondrocytes cultured in agarose gel. Chang J, et al. **Histochem J** 1997 Jul;29(7):515–28
Three-dimensional culture of bovine chondrocytes in rotating-wall vessels. Baker TL, et al. **In Vitro Cell Dev Biol Anim** 1997 May;33(5):358–65
The transfection of rabbit articular chondrocytes is independent of their differentiation state [letter] Viengchareun S, et al. **In Vitro Cell Dev Biol Anim** 1997 Jan;33(1):15–7
Articular cartilage chondrons: form, function and failure. Poole CA. **J Anat** 1997 Jul;191 (Pt 1):1–13 (48 ref.)
Canine chondrocytes seeded in type I and type II collagen implants investigated in vitro. Nehrer S, et al. **J Biomed Mater Res** 1997 Summer;38(2):95–104
Effects of growth-factor-enhanced culture on a chondrocyte-collagen implant for cartilage repair. Toolan BC, et al. **J Biomed Mater Res** 1996 Jun;31(2):273–80
Integrin alpha2beta1 is a receptor for the cartilage matrix protein chondroadherin. Camper L, et al. **J Cell Biol** 1997 Sep 8;138(5):1159–67
Nitric oxide and G proteins mediate the response of bovine articular chondrocytes to fluid-induced shear. Das P, et al. **J Orthop Res** 1997 Jan;15(1):87–93
Hydrostatic pressure influences mRNA expression of transforming growth factor-beta 1 and heat shock protein 70 in chondrocyte-like cell line. Takahashi K, et al. **J Orthop Res** 1997 Jan;15(1):150–8
Salazosulfapyridine suppresses chondrocyte mediated degradation induced by interleukin 1beta. Nose M, et al. **J Rheumatol** 1997 Mar;24(3):550–4
Effect of methylprednisolone acetate on proteoglycan and collagen metabolism of articular cartilage explants. Todhunter RJ, et al. **J Rheumatol** 1996 Jul;23(7):1207–13
Immunolocalization of type X collagen in normal fetal and adult osteoarthritic cartilage with monoclonal antibodies. Girkontaite I, et al. **Matrix Biol** 1996 Sep;15(4):231–8
Evidence for insufficient chondrocytic differentiation during repair of full-thickness defects of articular cartilage. Metsäranta M, et al. **Matrix Biol** 1996 Apr;15(1):39–47
Cloning of equine type II procollagen and the modulation of its expression in cultured equine articular chondrocytes. Richardson DW, et al. **Matrix Biol** 1997 May;16(2):59–64
Temporal changes in charge content of cultured chondrocytes from bovine cartilaginous tissues. Van Damme MP, et al. **Matrix Biol** 1997 Mar;15(7):495–502
The control of cell division in articular chondrocytes. Lee DA, et al. **Osteoarthritis Cartilage** 1993 Apr;1(2):137–46
Proteoglycan metabolism of equine articular chondrocytes cultured in alginate beads. Platt D, et al. **Res Vet Sci** 1997 Jan-Feb;62(1):39–47
Antioxidant effects of hyaluronan and its alpha-methyl-prednisolone derivative in chondrocyte and cartilage cultures. Cortivo R, et al. **Semin Arthritis Rheum** 1996 Aug;26(1):492–501
Immunoisolation of xenogeneic islets using a living tissue engineered cartilage barrier. Pollok JM, et al. **Transplant Proc** 1997 Jun;29(4):2131–3
[Bio-absorbable synthetic polyesters and tissue regeneration. A study of three-dimensional proliferation of ovine chondrocytes and osteoblasts] Rivard CH, et al. **Ann Chir** 1996;50(8):651–8 (Eng. Abstr.) **(Fre)**
[Growth behavior of chondrocytes on polytetrafluoroethylene membranes in fibrin coating--a new method for creating hyaline cartilage] Angele P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:499–503 (Eng. Abstr.) **(Ger)**
[The cellular mechanisms of articular cartilage differentiation] Mazhuga PM. **Tsitol Genet** 1996 May-Jun; 30(3):3–10 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Ultrastructural studies on the effect of transforming growth factor-beta 1 on rat articular cartilage. Itayem R, et al. **APMIS** 1997 Mar;105(3):221–8
Mitogenic and metabolic actions of epidermal growth factor on rat articular chondrocytes: modulation by fetal calf serum, transforming growth factor-beta, and tyrphostin. Ribault D, et al. **Arch Biochem Biophys** 1997 Jan 15; 337(2):149–58
IL-1 beta induces the degradation of equine articular cartilage by a mechanism that is not mediated by nitric oxide. Bird JL, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):81–5
Interleukin 1-induced calcium signalling in chondrocytes requires focal adhesions. Luo L, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):653–8
Pharmacological influence of antirheumatic drugs on proteoglycans from interleukin-1 treated articular cartilage. Steinmeyer J, et al. **Biochem Pharmacol** 1997 Jun 1; 53(11):1627–35
Comparison of in vitro response to growth hormone by chondrocytes from mandibular condyle cartilage of young and old mice. Livne E, et al. **Calcif Tissue Int** 1997 Jul; 61(1):62–7
Oncostatin M (OSM) stimulates resorption and inhibits synthesis of proteoglycan in porcine articular cartilage explants. Hui W, et al. **Cytokine** 1996 Jun;8(6):495–500
Intra-articular corticosteroids. Guide to selection and indications for use. Caldwell JR. **Drugs** 1996 Oct; 52(4):507–14 (29 ref.)
Glucocorticosteroids inhibit degradation in bovine cartilage explants stimulated with concomitant plasminogen and interleukin-1 alpha. Augustine AJ, et al. **Inflamm Res** 1997 Feb;46(2):60–4
Hyaluronic acid inhibits interleukin-1-induced superoxide anion in bovine chondrocytes. Fukuda K, et al. **Inflamm Res** 1997 Mar;46(3):114–7
Dithiocarbamates inhibit IL-1-induced cartilage degradation in bovine articular cartilage explants. Oleksyszyn J, et al. **Inflamm Res** 1996 May;45(5):215–7
Endogenous nitric oxide and prostaglandin E2 do not regulate the synthesis of each other in interleukin-1 beta-stimulated rat articular cartilage. Järvinen TA, et al. **Inflammation** 1996 Dec;20(6):683–92
Tolerability of nabumetone: a pilot in vitro study showing absence of injury to articular cartilage. Giordano N, et al. **Int J Tissue React** 1996;18(4–6):105–8
The mechanism of beta-glycerophosphate action in mineralizing chick limb-bud mesenchymal cell cultures. Boskey AL, et al. **J Bone Miner Res** 1996 Nov; 11(11):1694–702
Ca2+ oscillations and intercellular Ca2+ waves in ATP-stimulated articular chondrocytes. D'Andrea P, et al. **J Bone Miner Res** 1996 Jul;11(7):946–54
Nitric oxide attenuates cellular hexose monophosphate shunt response to oxidants in articular chondrocytes and acts to promote oxidant injury. Clancy RM, et al. **J Cell Physiol** 1997 Aug;172(2):183–91
Posttranscriptional effect of insulin-like growth factor-I on interleukin-1beta-induced type II-secreted phospholipase A2 gene expression in rabbit articular chondrocytes. Jacques C, et al. **J Clin Invest** 1997 Apr 15;99(8):1864–72
Recombinant human bone morphogenetic protein-2 maintains the articular chondrocyte phenotype in long-term culture. Sailor LZ, et al. **J Orthop Res** 1996 Nov;14(6):937–45
Suppression of matrix metalloproteinase-3 synthesis by interleukin-4 in human articular chondrocytes. Nemoto O, et al. **J Rheumatol** 1997 Sep;24(9):1774–9
IL-4 inhibition of cartilage breakdown in bovine articular explants [letter; comment] Salter DM, et al. **J Rheumatol** 1996 Jul;23(7):1314–5. Comment on: J Rheumatol 1995 Sep;22(9):1740–6.
Effects of transforming growth factor-beta 1 and interleukin-1 alpha on matrix synthesis in osteoarthritic cartilage of the temporo-mandibular joint in aged mice. Blumenfeld I, et al. **Mech Ageing Dev** 1997 Apr; 95(1–2):101–11
Osteoarthritis in the temporo-mandibular joint (TMJ) of aged mice and the in vitro effect of TGF-beta 1 on cell proliferation, matrix synthesis, and alkaline phosphatase activity. Livne E, et al. **Microsc Res Tech** 1997 May 15; 37(4):314–23
Calcitonin inhibits phospholipase A2 and collagenase activity of human osteoarthritic chondrocytes. Hellio MP, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):121–8
Effect of high molecular weight hyaluronan on cartilage degeneration in a rabbit model of osteoarthritis. Kikuchi T, et al. **Osteoarthritis Cartilage** 1996 Jun;4(2):99–110
Effects of meloxicam compared to acetylsalicylic acid in human articular chondrocytes. Bassleer C, et al. **Pharmacology** 1997 Jan;54(1):49–56
Effects of misoprostol and prostaglandin E2 on proteoglycan biosynthesis and loss in unloaded and loaded articular cartilage explants. Torzilli PA, et al. **Prostaglandins** 1996 Sep;52(3):157–73
Piroxicam and poststeroidal damage of articular cartilage. Lewandowski B, et al. **Rocz Akad Med Bialymst** 1995; 40(2):396–407
Comparative evaluation of ultrastructural changes in articular cartilage of ofloxacin-treated and magnesium-deficient immature rats. Shakibaei M, et al. **Toxicol Pathol** 1996 Sep-Oct;24(5):580–7
Response of human chondrocytes cultured in vitro to human somatotropin, triiodothyronine, and thyroxine. Malinin TI, et al. **Transplant Proc** 1997 Jun;29(4):2037–9
Transforming growth factor-beta 1 responsiveness of human articular chondrocytes in vitro: normal versus osteoarthritis. Jahng JS, et al. **Yonsei Med J** 1997 Feb; 38(1):40–51
Chondroneutrality of meloxicam in rats with spontaneous osteoarthrosis of the ankle joint. Mohr W, et al. **Z Rheumatol** 1997 Jan-Feb;56(1):21–30
[Do NSAIDs damage articular cartilage? (letter)] Schiøtiz-Christensen E. **Ugeskr Laeger** 1997 May 19; 159(21):3194–6 **(Dan)**

EMBRYOLOGY

Comparative study of the ontogeny of mandibular cartilage (Meckel) in sheep (Ovis aries) and cat (Felis domestica). Rojas M, et al. **Int J Dev Biol** 1996;Suppl 1:243S–244S

ENZYMOLOGY

Expression of membrane-type 1 matrix metalloproteinase and activation of progelatinase A in human osteoarthritic cartilage. Imai K, et al. **Am J Pathol** 1997 Jul;151(1):245–56
Temporal pattern of cysteine endopeptidase (cathepsin B) expression in cartilage and synovium from rabbit knees with experimental osteoarthritis: gene expression in chondrocytes in response to interleukin-1 and matrix depletion. Mehraban F, et al. **Ann Rheum Dis** 1997 Feb; 56(2):108–15
Activation and inhibition of endogenous matrix metalloproteinases in articular cartilage: effects on composition and biophysical properties. Bonassar LJ, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):359–67
Purification, characterization, and biosynthesis of bovine cartilage lysozyme isoforms. Moss JM, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):172–82
Expression of membrane type 1 matrix metalloproteinase in human articular cartilage. Büttner FH, et al. **Arthritis Rheum** 1997 Apr;40(4):704–9
Collagenase-3 (matrix metalloprotease 13) is preferentially localized in the deep layer of human arthritic cartilage in situ: in vitro mimicking effect by transforming growth factor beta. Moldovan F, et al. **Arthritis Rheum** 1997 Sep; 40(9):1653–61
Transglutaminase activity in aging articular chondrocytes and articular cartilage vesicles. Rosenthal AK, et al. **Arthritis Rheum** 1997 May;40(5):966–70
Comparison of several enzymes between normal physeal and tibial dyschondroplastic cartilage of broiler chickens. Zhang X, et al. **Avian Dis** 1997 Apr-Jun;41(2):330–4
Expression of members of a novel membrane linked metalloproteinase family (ADAM) in human articular chondrocytes. McKie N, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):335–9
The effects of IL-1 on mitogen-activated protein kinases in rabbit articular chondrocytes. Scherle PA, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):573–7
RT-PCR analysis of MMP-9 expression in human articular cartilage chondrocytes and synovial fluid cells. Tsuchiya K, et al. **Biotech Histochem** 1996 Jul;71(4):208–13
Characterization of the Na+, K(+)-ATPase in isolated bovine articular chondrocytes; molecular evidence for multiple alpha and beta isoforms. Mobasheri A, et al. **Cell Biol Int** 1997 Apr;21(4):201–12
Significance of serine proteinase and matrix metalloproteinase systems in the destruction of human articular cartilage. Kikuchi H, et al. **Clin Exp Pharmacol Physiol** 1996 Oct-Nov;23(10–11):885–9
Elastase from polymorphonuclear leukocyte in articular cartilage and synovial fluids of patients with rheumatoid arthritis. Momohara S, et al. **Clin Rheumatol** 1997 Mar; 16(2):133–40
Biotinylated trypsin and its application as a sensitive, versatile probe for the detection and characterisation of an ovine chondrocyte serine proteinase inhibitor using Western blotting. Rodgers KJ, et al. **Electrophoresis** 1996 Jan; 17(1):213–8
Differential expression of mRNAs for endopeptidases in phenotypically modulated ('dedifferentiated') human articular chondrocytes. Kostoulas G, et al. **FEBS Lett** 1997 Aug 4;412(3):453–5
Detection of superoxide and NADPH oxidase in porcine articular chondrocytes. Hiran TS, et al. **Free Radic Biol Med** 1997;23(5):736–43
Characterization of an insulin-like growth factor binding protein-5 protease produced by rat articular chondrocytes and a neuroblastoma cell line. Matsumoto T, et al. **Growth Regul** 1996 Sep;6(3):185–90
Nitric oxide enhances cyclooxygenase activity in articular cartilage. Manfield L, et al. **Inflamm Res** 1996 May; 45(5):254–8
Superinduction of cyclooxygenase-2 activity in human osteoarthritis-affected cartilage. Influence of nitric oxide. Amin AR, et al. **J Clin Invest** 1997 Mar 15;99(6):1231–7
Nitric oxide and proteoglycan turnover in rabbit articular cartilage. Stefanovic-Racic M, et al. **J Orthop Res** 1997 May;15(3):442–9
Suppression of matrix metalloproteinase-3 synthesis by interleukin-4 in human articular chondrocytes. Nemoto O, et al. **J Rheumatol** 1997 Sep;24(9):1774–9

GROWTH & DEVELOPMENT

In vitro studies on clonal growth of chondrocytes in thanatophoric dysplasia. Brenner RE, et al. **Am J Med Genet** 1996 May 17;63(2):401–5
Age-related changes in the localization of glycosaminoglycans in condylar cartilage of the mandible in rats. Takahashi I, et al. **Anat Embryol (Berl)** 1996 Nov; 194(5):489–500
In vitro formation of mineralized cartilagenous tissue by articular chondrocytes. Kandel RA, et al. **In Vitro Cell Dev Biol Anim** 1997 Mar;33(3):174–81
The development of articular cartilage: II. The spatial and temporal patterns of glycosaminoglycans and small leucine-rich proteoglycans [see comments] Archer CW, et al. **J Anat** 1996 Aug;189 (Pt 1):23–35. Comment in: J Anat 1997 May;190 (Pt 4):623–7.
Postnatal development of the collagen matrix in rabbit tibial plateau articular cartilage. Clark JM, et al. **J Anat** 1997 Aug;191 (Pt 2):215–21
The development of articular cartilage: I. The spatial and temporal patterns of collagen types [see comments] Morrison EH, et al. **J Anat** 1996 Aug;189 (Pt 1):9–22. Comment in: J Anat 1997 May;190 (Pt 4):623–7.
Maturation-dependent repair of untreated osteochondral defects in the rabbit knee joint. Wei X, et al. **J Biomed Mater Res** 1997 Jan;34(1):63–72

Growth profiles and articular cartilage characterization in a goat model of Legg–Calve–Perthes disease. Crawford CJ, et al. **J Invest Surg** 1995 Nov–Dec;8(6):391–408
Changes with age in the structure of fibromodulin in human articular cartilage. Roughley PJ, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):153–61

IMMUNOLOGY

Synthesis of classical pathway complement components by chondrocytes. Bradley K, et al. **Immunology** 1996 Aug; 88(4):648–56
Monoclonal antibodies against human chondrocytes. Bujia J, et al. **In Vitro Cell Dev Biol Anim** 1996 Jun;32(6):366–71
Human osteoarthritic cartilage exhibits the 2B6 epitope without pretreatment with chondroitinase ABC. Asari A, et al. **Osteoarthritis Cartilage** 1996 Jun;4(2):149–52
[Quantification of macrophages and granulocytes at the joint cartilage–pannus junction in rheumatoid arthritis] Hansch A, et al. **Z Rheumatol** 1996 Nov–Dec;55(6):401–9 (Eng. Abstr.) **(Ger)**

INJURIES

Articular cartilage injuries treated with autologous chondrocyte transplantation in the human knee. Peterson L. **Acta Orthop Belg** 1996;62 Suppl 1:196–200
MR imaging diagnosis of triangular fibrocartilage pathology with arthroscopic correlation. Oneson SR, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1513–8
Chondral delamination of the knee in soccer players. Levy AS, et al. **Am J Sports Med** 1996 Sep–Oct;24(5):634–9
A prospective evaluation of a new physical examination in predicting glenoid labral tears. Liu SH, et al. **Am J Sports Med** 1996 Nov–Dec;24(6):721–5
Arthroscopic repairs of triangular fibrocartilage complex tears. Baehser–Griffith P, et al. **AORN J** 1997 Jul; 66(1):101–2, 105–11, quiz 112, 115, 117–8 (23 ref.)
Labral lesions: an elusive source of hip pain case reports and literature review. Byrd JW. **Arthroscopy** 1996 Oct; 12(5):603–12 (19 ref.)
The dimpling phenomenon: articular cartilage injury overlying an occult osteochondral lesion at the time of anterior cruciate ligament reconstruction. Coen MJ, et al. **Arthroscopy** 1996 Aug;12(4):502–5
Arthroscopic repair of peripheral avulsions of the triangular fibrocartilage complex of the wrist: a multicenter study. Corso SJ, et al. **Arthroscopy** 1997 Feb;13(1):78–84
Cartilage injuries: a review of 31,516 knee arthroscopies. Curl WW, et al. **Arthroscopy** 1997 Aug;13(4):456–60
Radial avulsion of the triangular fibrocartilage complex in acute wrist trauma: a new technique for arthroscopic repair. Fellinger M, et al. **Arthroscopy** 1997 Jun;13(3):370–4
Arthroscopic repair of radial–sided triangular fibrocartilage complex tears. Sagerman SD, et al. **Arthroscopy** 1996 Jun; 12(3):339–42
Delayed articular cartilage slough: two cases resulting from holmium:YAG laser damage to normal articular cartilage and a review of the literature. Thal R, et al. **Arthroscopy** 1996 Feb;12(1):92–4 (8 ref.)
Influence of fibrin sealant (Tisseel) on osteochondral defect repair in the rabbit knee. Brittberg M, et al. **Biomaterials** 1997 Feb;18(3):235–42
Meniscal repair by fibrocartilage in the dog: characterization of the repair tissue and the role of vascularity. Klompmaker J, et al. **Biomaterials** 1996 Sep;17(17):1685–91
Injuries at the articulating surfaces of bone (chondral, osteochondral, subchondral fractures and osteochondrosis dissecans). Bohndorf K. **Eur J Radiol** 1996 Mar;22(1):22–9
Effects of growth factors on cartilage repair. Coutts RD, et al. **Instr Course Lect** 1997;46:487–94 (95 ref.)
Does participation in sports cause osteoarthritis? Buckwalter JA, et al. **Iowa Orthop J** 1997;17:80–9 (73 ref.)
Fracture of articular cartilage. Chin–Purcell MV, et al. **J Biomech Eng** 1996 Nov;118(4):545–56
Effects of growth–factor–enhanced culture on a chondrocyte–collagen implant for cartilage repair. Toolan BC, et al. **J Biomed Mater Res** 1996 Jun;31(2):273–80
An unclassified fracture of the talus. Niehaus LP, et al. **J Foot Ankle Surg** 1997 May–Jun;36(3):180–4
Isolated injuries to the dorsoradial capsule of the thumb metacarpophalangeal joint. Krause JO, et al. **J Hand Surg [Am]** 1996 May;21(3):428–33
Clinical results of treatment of triangular fibrocartilage complex tears by arthroscopic debridement. Minami A, et al. **J Hand Surg [Am]** 1996 May;21(3):406–11
Isolated tears of the triangular fibrocartilage: management by early arthroscopic repair. Trumble TE, et al. **J Hand Surg [Am]** 1997 Jan;22(1):57–65
Nitric oxide and G proteins mediate the response of bovine articular chondrocytes to fluid–induced shear. Das P, et al. **J Orthop Res** 1997 Jan;15(1):87–93
Subfracture insult to a knee joint causes alterations in the bone and in the functional stiffness of overlying cartilage. Newberry WN, et al. **J Orthop Res** 1997 May;15(3):450–5
Method to impact in vivo rabbit femoral cartilage with blows of quantifiable stress. Vrahas MS, et al. **J Orthop Res** 1997 Mar;15(2):314–7
Effect of impact load on articular cartilage: development of an intra–articular fracture model. Borrelli J Jr, et al. **J Orthop Trauma** 1997 Jul;11(5):319–26
Articular fracture reconstruction [editorial] Kellam JF. **J Orthop Trauma** 1997 Jul;11(5):318
Triradiate cartilage fracture associated with a transepiphyseal separation of the femoral head: a case report. Pina–Medina A, et al. **J Orthop Trauma** 1996;10(8):575–7
Magnetic resonance imaging versus arthroscopy for the investigation of the osteochondral humeral defect in anterior shoulder instability. A double–blind prospective study. Denti M, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):184–6
Ex vivo gene transfer to chondrocytes in full–thickness articular cartilage defects: a feasibility study. Kang R, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):139–43
[Fractures of the wrist with cartilage rupture in young adults. Apropos of 18 cases] Cottias P, et al. **Ann Chir Main Memb Super** 1997;16(1):39–48 (Eng. Abstr.) **(Fre)**
[A small distal osseous avulsion of the fibrocartilago palmaris of the middle finger interphalangeal joints. Results of conservative therapy] Haferkamp H. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):187–91 (Eng. Abstr.) **(Ger)**
[Possibilities of gene therapy in traumatic and degenerative articular lesions. Current status of experimental and initial clinical applications] Gerich TG, et al. **Orthopade** 1997 May;26(5):450–8 (92 ref.) (Eng. Abstr.) **(Ger)**
[Experimental studies of mechanically–induced articular cartilage defects following implantation of allogeneic embryonal chondrocytes in a collagen–fibrin gel in chickens] Perka C, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec;134(6):562–72 (72 ref.) (Eng. Abstr.) **(Ger)**
[Assessment with magnetic resonance of cartilage injuries of the knee with tridimensional techniques with fat suppression] Ginolfi F, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):206–9 (Eng. Abstr.) **(Ita)**

METABOLISM

Differences in submicroscopic structure of the extracellular matrix of canine femoral and tibial condylar articular cartilages as revealed by polarization microscopical analysis. Módis L, et al. **Acta Biol Hung** 1996; 47(1–4):341–53
Pathways for K+ transport across the bovine articular chondrocyte membrane and their sensitivity to cell volume. Hall AC, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1300–10
Effect of carprofen on sulfated glycosaminoglycan metabolism, protein synthesis, and prostaglandin release by cultured osteoarthritic canine chondrocytes. Benton HP, et al. **Am J Vet Res** 1997 Mar;58(3):286–92
Altered biological activity of equine chondrocytes cultured in a three–dimensional fibrin matrix and supplemented with transforming growth factor beta–1. Fortier LA, et al. **Am J Vet Res** 1997 Jan;58(1):66–70
Effect of activated equine neutrophils on sulfated proteoglycan metabolism in equine cartilage explant cultures. MacDonald MH, et al. **Am J Vet Res** 1996 Dec; 57(12):1738–47
Phenotypic modulation of chondrocytes as a potential therapeutic target in osteoarthritis: a hypothesis. Aigner T, et al. **Ann Rheum Dis** 1997 May;56(5):287–91
Influence of interleukin 1 beta on tenascin distribution in human normal and osteoarthritic cartilage: a quantitative immunohistochemical study. Chevalier X, et al. **Ann Rheum Dis** 1996 Oct;55(10):772–5
Association of proteoglycan degradation with catabolic cytokine and stromelysin release from cartilage cultured with fibronectin fragments. Homandberg GA, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):325–31
The role and content of endogenous insulin–like growth factor–binding proteins in bovine articular cartilage. Morales TI. **Arch Biochem Biophys** 1997 Jul 15; 343(2):164–72
Integrins on joint cartilage chondrocytes and alterations by ofloxacin or magnesium deficiency in immature rats. Förster C, et al. **Arch Toxicol** 1996;70(5):261–70
Interleukin–17 up–regulation of nitric oxide production in human osteoarthritis cartilage. Attur MG, et al. **Arthritis Rheum** 1997 Jun;40(6):1050–3
Role of oncostatin M in the regulation of cartilage macromolecule metabolism: comment on the article by Nemoto et al [letter; comment] Carroll G, et al. **Arthritis Rheum** 1997 Mar;40(3):589–90. Comment on: Arthritis Rheum 1996 Apr;39(4):560–6.
Recombinant human osteogenic protein 1 is a potent stimulator of the synthesis of cartilage proteoglycans and collagens by human articular chondrocytes. Flechtenmacher J, et al. **Arthritis Rheum** 1996 Nov; 39(11):1896–904
Nitric oxide production by superficial and deep articular chondrocytes. Hayashi T, et al. **Arthritis Rheum** 1997 Feb; 40(2):261–9
Human chondrocyte expression of growth–arrest–specific gene 6 and the tyrosine kinase receptor axl: potential role in autocrine signaling in cartilage. Loeser RF, et al. **Arthritis Rheum** 1997 Aug;40(8):1455–65
Major role of collagen IIB in the elevation of total type II procollagen messenger RNA in the hypertrophic phase of experimental osteoarthritis. Matyas JR, et al. **Arthritis Rheum** 1997 Jun;40(6):1046–9
Enhancement of cartilage matrix protein synthesis in arthritic cartilage. Okimura A, et al. **Arthritis Rheum** 1997 Jun; 40(6):1029–36
Rheumatoid arthritis synovial fibroblast and U937 macrophage/monocyte cell line interaction in cartilage degradation. Scott BB, et al. **Arthritis Rheum** 1997 Mar; 40(3):490–8
Doxyclycline inhibits collagen synthesis by bovine chondrocytes cultured in alginate. Beekman B, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):107–10
IL–1 beta induces the degradation of equine articular cartilage by a mechanism that is not mediated by nitric oxide. Bird JL, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):81–5
A hyperosmotic stimulus regulates intracellular pH, calcium, and S–100 protein levels in avian chondrocytes. Dascalu A, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):368–73
Nitric oxide inhibits the synthesis of type–II collagen without altering Col2A1 mRNA abundance: prolyl hydroxylase as a possible target. Cao M, et al. **Biochem J** 1997 May 15; 324 (Pt 1):305–10
Dual mechanism for cAMP–dependent modulation of Ca2+ signalling in articular chondrocytes. D'Andrea P, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):569–73
Species–specific alternative splicing of the epidermal growth factor–like domain 1 of cartilage aggrecan. Fülöp C, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):935–40
Occurrence of PG–Lb, a leucine–rich small chondroitin/dermatan sulphate proteoglycan in mammalian epiphyseal cartilage: molecular cloning and sequence analysis of the mouse cDNA. Kurita K, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):909–14
Evidence for a negative Pasteur effect in articular cartilage. Lee RB, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):95–102
Presence of pro–forms of decorin and biglycan in human articular cartilage. Roughley PJ, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):779–84
Fibronectin fragment mediated cartilage chondrolysis. I. Suppression by anti–oxidants. Homandberg GA, et al. **Biochim Biophys Acta** 1996 Nov 15;1317(2):134–42
Fibronectin fragment mediated cartilage chondrolysis. II. Reparative effects of anti–oxidants. Homandberg GA, et al. **Biochim Biophys Acta** 1996 Nov 15;1317(2):143–8
Matrix loss and synthesis following a single impact load on articular cartilage in vitro. Jeffrey JE, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):223–32
Differential expression of membrane–anchored proteoglycans in rabbit articular chondrocytes cultured in monolayers and in alginate beads. Effect of transforming growth factor–beta 1. Rédini F, et al. **Biochim Biophys Acta** 1997 Jan 10; 1355(1):20–32
Human chondrocytes proliferate and produce matrix components in microcarrier suspension culture. Frondoza C, et al. **Biomaterials** 1996 May;17(9):879–88
Matrix collagen type and pore size influence behaviour of seeded canine chondrocytes. Nehrer S, et al. **Biomaterials** 1997 Jun;18(11):769–76
Analysis of 3H–proline–labeled protein by rapid filtration in multiwell plates for the study of collagen metabolism. Koyano Y, et al. **Biotechniques** 1997 Apr;22(4):706–8, 710–2, 714 passim
Differential expression of IL–1 and TNF receptors in inflammatory arthritis and osteoarthritis. Ruggeri R, et al. **Boll Soc Ital Biol Sper** 1996 Jan–Feb;72(1–2):15–20
Effects of transforming growth factor beta on the production of prostaglandin E and caseinase activity of unstimulated and interleukin 1–stimulated human articular chondrocytes in culture. Fawthrop FW, et al. **Br J Rheumatol** 1997 Jul; 36(7):729–34
Alpha and epsilon isozymes of protein kinase C in the chondrocytes in normal and early osteoarthritic articular cartilage. Satsuma H, et al. **Calcif Tissue Int** 1996 Mar; 58(3):192–4
Effects of magnesium deficiency on magnesium and calcium content in bone and cartilage in developing rats in correlation to chondrotoxicity. Vormann J, et al. **Calcif Tissue Int** 1997 Sep;61(3):230–8
Integrin expression on chondrocytes: correlations with the degree of cartilage damage in human osteoarthritis. Lapadula G, et al. **Clin Exp Rheumatol** 1997 May–Jun; 15(3):247–54
Effect of normal synovial fluid on the metabolism of articular chondrocytes in vitro. Lee DA, et al. **Clin Orthop** 1997 Sep;(342):228–38
Comparison of matrix vesicles derived from normal and osteoarthritic human articular cartilage. Derfus BA, et al. **Connect Tissue Res** 1996;35(1–4):337–42
Alteration and recovery of the spatial orientation of the collagen network of articular cartilage in adolescent rabbits following intra–articular chymopapain injection. Williams JM, et al. **Connect Tissue Res** 1996;34(2):105–17
Species–specific expression of type II TGF–beta receptor isoforms by articular chondrocytes: effect of proteoglycan depletion and aging. Glansbeek HL, et al. **Cytokine** 1997 May;9(5):347–51
Constitutive and inducible expression of endothelin–1 in primary rat articular chondrocyte culture. Khatib AM, et al. **Cytokine** 1997 Aug;9(8):556–62
Effect of interleukin 1 and leukaemia inhibitory factor on chondrocyte metabolism in articular cartilage from normal and interleukin–6–deficient mice: role of nitric oxide and IL–6 in the suppression of proteoglycan synthesis. Van de Loo FA, et al. **Cytokine** 1997 Jul;9(7):453–62
Regulation of tissue inhibitor of metalloproteinases–3 gene expression by transforming growth factor–beta and

dexamethasone in bovine and human articular chondrocytes. Su S, et al. **DNA Cell Biol** 1996 Dec; 15(12):1039–48

The mechanism of induction of insulin-like growth factor binding protein (IGFBP)-5 by IGFs in rat articular chondrocytes. Matsumoto T, et al. **Endocr J** 1996 Oct;43 Suppl:S93–5

Perinuclear localization of an intracellular binding protein related to the fibroblast growth factor (FGF) receptor 1 is temporally associated with the nuclear trafficking of FGF-2 in proliferating epiphyseal growth plate chondrocytes. Kilkenny DM, et al. **Endocrinology** 1996 Nov;137(11):5078–89

Nitric oxide mediates interleukin-1-induced matrix degradation and basic fibroblast growth factor release in cultured rabbit articular chondrocytes: a possible mechanism of pathological neovascularization in arthritis. Tamura T, et al. **Endocrinology** 1996 Sep;137(9):3729–37

Effects of growth factors and interleukin-1 alpha on proteoglycan and type II collagen turnover in bovine nasal and articular chondrocyte pellet cultures. Xu C, et al. **Endocrinology** 1996 Aug;137(8):3557–65

Nitric oxide production by equine articular cells in vitro [see comments] Frean SP, et al. **Equine Vet J** 1997 Mar; 29(2):98–102. Comment in: Equine Vet J 1997 Mar;29(2):86–7.

CD44-anchored hyaluronan-rich pericellular matrices: an ultrastructural and biochemical analysis. Knudson W, et al. **Exp Cell Res** 1996 Nov 1;228(2):216–28

Propagation of intercellular Ca2+ waves in mechanically stimulated articular chondrocytes. D'Andrea P, et al. **FEBS Lett** 1997 Jan 2;400(1):58–64

Testing the eukaryotic promoters for efficient expression of exogenous genes in chondrocytes and synoviocytes. Su S, et al. **FEBS Lett** 1996 Oct 21;395(2–3):179–82

Detection of superoxide and NADPH oxidase in porcine articular chondrocytes. Hiran TS, et al. **Free Radic Biol Med** 1997;23(5):736–43

A comparative study of lectin binding to cultured chick sternal chondrocytes and intact chick sternum. McClure SF, et al. **Glycoconj J** 1997 Apr;14(3):365–77

Application of selected cationic dyes for the semiquantitative estimation of glycosaminoglycans in histological sections of articular cartilage by microspectrophotometry. Király K, et al. **Histochem J** 1996 Aug;28(8):577–90

Histochemical analysis of insulin-like growth factor-1 binding sites in mouse normal and experimentally induced arthritic articular cartilage. Verschure PJ, et al. **Histochem J** 1996 Jan;28(1):13–23

Immunohistochemical localization of fibroblast growth factor-2 in normal and brachymorphic mouse tibial growth plate and articular cartilage. Wezeman FH, et al. **Histochem J** 1997 Jun;29(6):505–14

Plasminogen modulation of IL-1-stimulated degradation in bovine and human articular cartilage explants. The role of the endogenous inhibitors: PAI-1, alpha 2-antiplasmin, alpha 1-PI, alpha 2-macroglobulin and TIMP. Oleksyszyn J, et al. **Inflamm Res** 1996 Sep;45(9):464–72

Possums, articular cartilage and oxygen. A comment on the papers by Archer et al. (1996) and Morrison et al. (1996) [letter; comment] Stockwell RA, et al. **J Anat** 1997 May; 190 (Pt 4):623–7. Comment on: J Anat 1996 Aug;189 (Pt 1):9–22. Comment on: J Anat 1996 Aug;189 (Pt 1):23–35.

Inhibition of calcium pyrophosphate dihydrate crystal formation in articular cartilage vesicles and cartilage by phosphocitrate. Cheung HS, et al. **J Biol Chem** 1996 Nov 8;271(45):28082–5

The chick alpha2(I) collagen gene contains two functional promoters, and its expression in chondrocytes is regulated at both transcriptional and post-transcriptional levels. Pallante KM, et al. **J Biol Chem** 1996 Oct 11; 271(41):25233–9

A triphasic analysis of negative osmotic flows through charged hydrated soft tissues. Gu WY, et al. **J Biomech** 1997 Jan;30(1):71–8

Characterization of cartilage metabolic response to static and dynamic stress using a mechanical explant test system. Torzilli PA, et al. **J Biomech** 1997 Jan;30(1):1–9

Effect of proteoglycan removal on solute mobility in articular cartilage. Torzilli PA, et al. **J Biomech** 1997 Sep; 30(9):895–902

Stimulation of proteoglycan synthesis in explants of porcine articular cartilage by recombinant osteogenic protein-1 (bone morphogenetic protein-7). Lietman SA, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1132–7

Prostaglandin E2 stimulates insulin-like growth factor binding protein-4 expression and synthesis in cultured human articular chondrocytes: possible mediation by Ca(++)-calmodulin regulated processes. Di Battista JA, et al. **J Cell Biochem** 1997 Jun 1;65(3):408–19

Nitric oxide attenuates cellular hexose monophosphate shunt response to oxidants in articular chondrocytes and acts to promote oxidant injury. Clancy RM, et al. **J Cell Physiol** 1997 Aug;172(2):183–91

Chondrocytes from osteoarthritic cartilage have increased expression of insulin-like growth factor I (IGF-I) and IGF-binding protein-3 (IGFBP-3) and -5, but not IGF-II or IGFBP-4. Olney RC, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1096–103

Enhanced cleavage of type II collagen by collagenases in osteoarthritic articular cartilage. Billinghurst RC, et al. **J Clin Invest** 1997 Apr 1;99(7):1534–45

Posttranscriptional effect of insulin-like growth factor-I on interleukin-1beta-induced type II-secreted phospholipase A2 gene expression in rabbit articular chondrocytes. Jacques C, et al. **J Clin Invest** 1997 Apr 15;99(8):1864–72

Aggrecan degradation in human cartilage. Evidence for both matrix metalloproteinase and aggrecanase activity in normal, osteoarthritic, and rheumatoid joints. Lark MW, et al. **J Clin Invest** 1997 Jul 1;100(1):93–106

Increased metabolism of collagen VI in canine osteoarthritis. Arican M, et al. **J Comp Pathol** 1996 Apr;114(3):249–56

Parathyroid hormone-related protein (PTHrP) action in rat articular chondrocytes: comparison of PTH(1–34), PTHrP(1–34), PTHrP(1–141), PTHrP(100–114) and antisense oligonucleotides against PTHrP. Tsukazaki T, et al. **J Endocrinol** 1996 Sep;150(3):359–68

Constitutive intra-articular expression of human IL-1 beta following gene transfer to rabbit synovium produces all major pathologies of human rheumatoid arthritis. Ghivizzani SC, et al. **J Immunol** 1997 Oct 1;159(7):3604–12

Monocytes/macrophages rather than PMN are involved in early cartilage degradation in cationic immune complex arthritis in mice. Van Lent PL, et al. **J Leukoc Biol** 1997 Mar;61(3):267–78

Increased degradation and altered tissue distribution of cartilage oligomeric matrix protein in human rheumatoid and osteoarthritic cartilage. Di Cesare PE, et al. **J Orthop Res** 1996 Nov;14(6):946–55

Calcium-mobilizing purine receptors on the surface of mammalian articular chondrocytes. Koolpe M, et al. **J Orthop Res** 1997 Mar;15(2):204–12

Compressive strains at physiological frequencies influence the metabolism of chondrocytes seeded in agarose. Lee DA, et al. **J Orthop Res** 1997 Mar;15(2):181–8

Osteoarthritis: differential expression of matrix metalloproteinase-9 mRNA in nonfibrillated and fibrillated cartilage. Tsuchiya K, et al. **J Orthop Res** 1997 Jan; 15(1):94–100

Presence of ED-A containing fibronectin in human articular cartilage from patients with osteoarthritis and rheumatoid arthritis. Chevalier X, et al. **J Rheumatol** 1996 Jun; 23(6):1022–30

Coordinated regulation of hyaluronan and aggrecan content in the articular cartilage of immobilized and exercised dogs. Haapala J, et al. **J Rheumatol** 1996 Sep;23(9):1586–93

Defining the role of molecular markers to monitor disease, intervention, and cartilage breakdown in osteoarthritis. Lohmander LS, et al. **J Rheumatol** 1997 Apr;24(4):782–5

Salazosulfapyridine suppresses chondrocyte mediated degradation induced by interleukin 1beta. Nose M, et al. **J Rheumatol** 1997 Mar;24(3):550–4

IL-4 inhibition of cartilage breakdown in bovine articular explants [letter; comment] Salter DM, et al. **J Rheumatol** 1996 Jul;23(7):1314–5. Comment on: J Rheumatol 1995 Sep;22(9):1740–6.

Effects of indomethacin on the production of matrix metalloproteinase-3 and tissue inhibitor of metalloproteinases-1 by human articular chondrocytes. Yamada H, et al. **J Rheumatol** 1996 Oct;23(10):1739–43

Can magnetization transfer magnetic resonance imaging follow proteoglycan depletion in articular cartilage? Wachsmuth L, et al. **MAGMA** 1997 Mar;5(1):71–8

MRI contrast enhanced study of cartilage proteoglycan degradation in the rabbit knee. Bacic G, et al. **Magn Reson Med** 1997 May;37(5):764–8

Hyaluronan synthesis by epiphysial chondrocytes is regulated by growth hormone, insulin-like growth factor-1, parathyroid hormone and transforming growth factor-beta 1. Pavasant P, et al. **Matrix Biol** 1996 Dec;15(6):423–32

Effects of transforming growth factor-beta 1 and interleukin-1 alpha on matrix synthesis in osteoarthritic cartilage of the temporo-mandibular joint in aged mice. Blumenfeld I, et al. **Mech Ageing Dev** 1997 Apr; 95(1–2):101–11

Ageing increases growth factor-induced inorganic pyrophosphate elaboration by articular cartilage. Rosenthal AK, et al. **Mech Ageing Dev** 1994 Jul;75(1):35–44

The involvement of subchondral mineralized tissues in osteoarthrosis: quantitative microscopic evidence. Burr DB, et al. **Microsc Res Tech** 1997 May 15;37(4):343–57 (100 ref.)

The interaction of the zone of calcified cartilage and subchondral bone in osteoarthritis. Oegema TR Jr, et al. **Microsc Res Tech** 1997 May 15;37(4):324–32 (75 ref.)

The contribution of quantitative confocal laser scanning microscopy in cartilage research: chondrocyte insulin-like growth factor-1 receptors in health and pathology. Verschure PJ, et al. **Microsc Res Tech** 1997 May 15; 37(4):285–98 (65 ref.)

Prostaglandin E2 stimulates incorporation of proline into collagenase digestible proteins in human articular chondrocytes: identification of an effector autocrine loop involving insulin-like growth factor I. Di Battista JA, et al. **Mol Cell Endocrinol** 1996 Oct 14;123(1):27–35

Alteration of cartilage specific proteoglycan with non-weight bearing articular cartilage. Yutani Y, et al. **Osaka City Med J** 1994 Jul;40(1):19–26

Expression of biglycan, decorin and fibromodulin in the hypertrophic phase of experimental osteoarthritis. Dourado GS, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):187–96

Effects of exogenous IL-1 beta, TNF alpha, IL-6, IL-8 and LIF on cytokine production by human articular chondrocytes. Henrotin YE, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):163–73

Interleukin-1 beta-mediated glucose uptake by chondrocytes. Inhibition by cortisol. Hernvann A, et al. **Osteoarthritis Cartilage** 1996 Jun;4(2):139–42

The effect of strenuous versus moderate exercise on the metabolism of proteoglycans in articular cartilage from different weight-bearing regions of the equine third carpal bone. Little CB, et al. **Osteoarthritis Cartilage** 1997 May; 5(3):161–72

Complexity of IL-1 beta induced gene expression pattern in human articular chondrocytes. Margerie D, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):129–38

Biochemical and biomechanical alterations in equine articular cartilage following an experimentally-induced synovitis. Palmer JL, et al. **Osteoarthritis Cartilage** 1996 Jun; 4(2):127–37

Analysis of types I, II, III, IX and XI collagens synthesized by fetal bovine chondrocytes in high-density culture. Ronzière MC, et al. **Osteoarthritis Cartilage** 1997 May; 5(3):205–14

Joint fluid carboxy-terminal type II procollagen peptide as a marker of cartilage collagen biosynthesis. Shinmei M, et al. **Osteoarthritis Cartilage** 1993 Apr;1(2):121–8

Effects of misoprostol and prostaglandin E2 on proteoglycan biosynthesis and loss in unloaded and loaded articular cartilage explants. Torzilli PA, et al. **Prostaglandins** 1996 Sep;52(3):157–73

Proteoglycan metabolism of equine articular chondrocytes cultured in alginate beads. Platt D, et al. **Res Vet Sci** 1997 Jan-Feb;62(1):39–47

An immunohistochemical and immunoelectron microscopic study of adhesion molecules in synovial pannus formation in rheumatoid arthritis. Ishikawa H, et al. **Rheumatol Int** 1996;16(2):53–60

Cytokine mRNA repertoire of articular chondrocytes from arthritic patients, infants, and neonatal mice. Tanabe BK, et al. **Rheumatol Int** 1996;16(2):67–76

Quantification of mRNA levels in joint capsule and articular cartilage of the murine knee joint by RT-PCR: kinetics of stromelysin and IL-1 mRNA levels during arthritis. Van Meurs JB, et al. **Rheumatol Int** 1997;16(5):197–205

Arthritis susceptibility in mice expressing human type II collagen in cartilage. Malmström V, et al. **Scand J Immunol** 1997 Jun;45(6):670–7

[Some characteristics of metabolism in osteoarticular, cardiovascular, and liver tissues in "experimental osteochondrosis"] Kniazieva MV, et al. **Ukr Biokhim Zh** 1995 Nov-Dec;67(6):66–75 (Eng. Abstr.) **(Ukr)**

MICROBIOLOGY

Blocking of TNF-alpha and IL-1 inhibits leukocyte infiltration at early, but not at late stage of S. aureus-induced arthritis and the concomitant cartilage destruction in rabbits. Kimura M, et al. **Clin Immunol Immunopathol** 1997 Jan;82(1):18–25

PATHOLOGY

Quantification of articular cartilage in the knee with three-dimensional MR imaging. Dupuy DE, et al. **Acad Radiol** 1996 Nov;3(11):919–24

Saline versus gadolinium-enhanced magnetic resonance arthrography of porcine cartilage. Yao L, et al. **Acad Radiol** 1997 Feb;4(2):127–31

Evaluation of knee-joint cartilage and menisci ten years after isolated and combined ruptures of the medial collateral ligament. Investigation by weight-bearing radiography, MR imaging and analysis of proteoglycan fragments in the joint fluid. Lundberg M, et al. **Acta Radiol** 1997 Jan; 38(1):151–7

Detection of cartilage lesions with fat-suppressed three-dimensional spoiled gradient-echo MR imaging [letter; comment] Brossmann J, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):910–1. Comment on: AJR Am J Roentgenol 1996 Jul;167(1):127–32.

Fat-suppressed three-dimensional spoiled gradient-recalled MR imaging: assessment of articular and physeal hyaline cartilage. Disler DG. **AJR Am J Roentgenol** 1997 Oct; 169(4):1117–23

Image resolution and signal-to-noise ratio requirements for MR imaging of degenerative cartilage. Rubenstein JD, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1089–96

Classification of articular cartilage lesions of the knee at arthroscopy. Lewandrowski KU, et al. **Am J Knee Surg** 1996 Summer;9(3):121–8 (33 ref.)

Synovial fibroblasts of patients with rheumatoid arthritis attach to and invade normal human cartilage when engrafted into SCID mice. Müller-Ladner U, et al. **Am J Pathol** 1996 Nov;149(5):1607–15

Interleukin-6 reduces cartilage destruction during experimental arthritis. A study in interleukin-6-deficient mice. van de Loo FA, et al. **Am J Pathol** 1997 Jul; 151(1):177–91

Pannocytes: distinctive cells found in rheumatoid arthritis articular cartilage erosions. Zvaifler NJ, et al. **Am J Pathol** 1997 Mar;150(3):1125–38

Matrix assessment of the articular cartilage surface after chondroplasty with the holmium:YAG laser. Lane JG, et al. **Am J Sports Med** 1997 Jul-Aug;25(4):560–9

Concomitant meniscal and articular cartilage lesions in the femorotibial joint. Lewandrowski KU, et al.

Am J Sports Med 1997 Jul-Aug;25(4):486-94

Immunolocalization of stromelysin, tumor necrosis factor (TNF) alpha, and TNF receptors in atrophied canine articular cartilage treated with hyaluronic acid and transforming growth factor beta. Comer JS, et al. **Am J Vet Res** 1996 Oct;57(10):1488-96

Immunohistochemical analysis of an equine model of synovitis-induced arthritis [published erratum appears in Am J Vet Res 1996 Aug;57(8):1249] Todhunter PG, et al. **Am J Vet Res** 1996 Jul;57(7):1080-93

Immobilisation causes longlasting matrix changes both in the immobilised and contralateral joint cartilage. Jortikka MO, et al. **Ann Rheum Dis** 1997 Apr;56(4):255-61

Observations on the microenvironmental nature of cartilage degradation in rheumatoid arthritis. Woolley DE, et al. **Ann Rheum Dis** 1997 Mar;56(3):151-61 (57 ref.)

Cartilage-flow phenomenon and evidence for it in perichondrial grafting. Bruns J, et al. **Arch Orthop Trauma Surg** 1997;116(1-2):66-73

Interleukin-1beta-stimulated invasion of articular cartilage by rheumatoid synovial fibroblasts is inhibited by antibodies to specific integrin receptors and by collagenase inhibitors. Wang AZ, et al. **Arthritis Rheum** 1997 Jul;40(7):1298-307

Meniscal transplantation and degenerative articular change: an experimental study in the rabbit. Cummins JF, et al. **Arthroscopy** 1997 Aug;13(4):485-91

Chondral lesions of the midcarpal joint. Dautel G, et al. **Arthroscopy** 1997 Feb;13(1):97-102

Meniscal impingement syndrome. McGuire DA, et al. **Arthroscopy** 1996 Dec;12(6):675-9

Arthroscopic-assisted allograft anterior cruciate ligament reconstruction in patients with symptomatic arthrosis. Noyes FR, et al. **Arthroscopy** 1997 Feb;13(1):24-32

Variability in the cell phenotype of aggregates or "clones" of human osteoarthritic cartilage. A case report. Kouri JB, et al. **Biocell** 1996 Dec;20(3):191-200

MRI in the assessment of synovium and cartilage. Peterfy CG. **Br J Rheumatol** 1996 Dec;35 Suppl 3:3-5 (10 ref.)

Integrin expression on chondrocytes: correlations with the degree of cartilage damage in human osteoarthritis. Lapadula G, et al. **Clin Exp Rheumatol** 1997 May-Jun; 15(3):247-54

Use of autogenous cartilage particles to create a model of naturally occurring degenerative joint disease in the horse. Hurtig MB. **Equine Vet J Suppl** 1988 Sep;(6):19-22

Degradation of articular cartilage during the progression of antigen-induced arthritis in mice. A scanning and transmission electron microscopic study. Henzgen S, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):255-63

Articular cartilage destruction in experimental inflammatory arthritis: insulin-like growth factor-1 regulation of proteoglycan metabolism in chondrocytes. Verschure PJ, et al. **Histochem J** 1996 Dec;28(12):835-57 (263 ref.)

Progressive degeneration of articular cartilage and intervertebral discs. An experimental study in transgenic mice bearing a type IX collagen mutation. Kimura T, et al. **Int Orthop** 1996;20(3):177-81

Analysis of three-dimensional computerized representations of articular cartilage lesions. Lavid NE, et al. **Invest Radiol** 1996 Sep;31(9):577-85

Three-dimensional computerized reconstruction. Illustration of incremental articular cartilage thinning. Tebben PJ, et al. **Invest Radiol** 1997 Aug;32(8):475-84

Variations in composition of cartilage from the shoulder joints of young adult dogs at risk for developing canine hip dysplasia [see comments] Farquhar T, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1483-5. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417-8.

Evaluation of cartilage lesions on the medial femoral condyle as a cause of lameness in horses: 11 cases (1988-1994). Schneider RK, et al. **J Am Vet Med Assoc** 1997 Jun 1; 210(11):1649-52

Osteoarthritis in cynomolgus macaques. III: Effects of age, gender, and subchondral bone thickness on the severity of disease. Carlson CS, et al. **J Bone Miner Res** 1996 Sep; 11(9):1209-17

Tumoral calcinosis of the triangular fibrocartilage complex: a case report. Tadjalli HE, et al. **J Hand Surg [Am]** 1997 Mar;22(2):350-3

Human IL-1Ra gene transfer into human synovial fibroblasts is chondroprotective. Müller-Ladner U, et al. **J Immunol** 1997 Apr 1;158(7):3492-8

Chondromalacia of the knee: evaluation with a fat-suppression three-dimensional SPGR imaging after intravenous contrast injection. Suh JS, et al. **J Magn Reson Imaging** 1996 Nov-Dec;6(6):884-8

Effect of impact load on articular cartilage: development of an intra-articular fracture model. Borrelli J Jr, et al. **J Orthop Trauma** 1997 Jul;11(5):319-26

Articular fracture reconstruction [editorial] Kellam JF. **J Orthop Trauma** 1997 Jul;11(5):318

Chondrolysis and avascular necrosis: complications of slipped capital femoral epiphysis. Lubicky JP. **J Pediatr Orthop B** 1996 Summer;5(3):162-7 (39 ref.)

Chondrolysis after slipped capital femoral epiphysis. Warner WC Jr, et al. **J Pediatr Orthop B** 1996 Summer;5(3):168-72

Degenerated human articular cartilage at autopsy represents preclinical osteoarthritic cartilage: comparison with clinically defined osteoarthritic cartilage. van Valburg AA, et al. **J Rheumatol** 1997 Feb;24(2):358-64

Superficial and deep defects in dyschondroplastic and degenerated pig articular cartilage. Della Salda L, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):51-8

Diagnosis of quinolone-induced arthropathy in juvenile dogs by use of magnetic resonance (MR) imaging. Yabe K, et al. **J Vet Med Sci** 1997 Jul;59(7):597-9

Cross-relaxation times of normal and biochemically induced osteoarthritic rabbit knee cartilages. Kuwata K, et al. **Jpn J Physiol** 1997 Jun;47(3):291-7

Histological comparison of patellar cartilage degeneration between chondromalacia in youth and osteoarthritis in aging. Mori Y, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):167-72

Comparison between magnetic resonance imaging and arthroscopy in the diagnosis of patellar cartilage lesions: a prospective study. Vallotton JA, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):157-62

Real time monitoring of laser-induced thermal changes in cartilage in vitro by using snapshot FLASH. Jakob PM, et al. **Magn Reson Med** 1997 May;37(5):805-8

Immunolocalization of type X collagen in normal fetal and adult osteoarthritic cartilage with monoclonal antibodies. Girkontaite I, et al. **Matrix Biol** 1996 Sep;15(4):231-8

Magnetic resonance imaging of the temporomandibular joint: value of pseudodynamic images. Ren YF, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):110-23

Cartilage resurfacing: facts, fictions, and facets. Thornhill TS. **Orthopedics** 1997 Sep;20(9):819-20

The distribution of differentiated phenotypes of chondrocytes in osteoarthritic knee. Yutani Y, et al. **Osaka City Med J** 1996 Jul;42(1):37-44

Moderate exercise exacerbates the osteoarthritic lesions produced in cartilage by meniscectomy: a morphological study. Armstrong SJ, et al. **Osteoarthritis Cartilage** 1993 Apr;1(2):89-96

Blotchy mice: a model of osteoarthritis associated with a metabolic defect. Glasson SS, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):209-12

Effect of high molecular weight hyaluronan on cartilage degeneration in a rabbit model of osteoarthritis. Kikuchi T, et al. **Osteoarthritis Cartilage** 1996 Jun;4(2):99-110

Cartilage thickness measurement in magnetic resonance imaging. Kladny B, et al. **Osteoarthritis Cartilage** 1996 Sep; 4(3):181-6

Ultrastructural study of chondrocytes from fibrillated and non-fibrillated human osteoarthritic cartilage. Kouri JB, et al. **Osteoarthritis Cartilage** 1996 Jun;4(2):111-25

Cartilage swelling and loss in a spontaneous model of osteoarthritis visualized by magnetic resonance imaging. Watson PJ, et al. **Osteoarthritis Cartilage** 1996 Sep; 4(3):197-207

Short echo time projection reconstruction MR imaging of cartilage: comparison with fat-suppressed spoiled GRASS and magnetization transfer contrast MR imaging. Brossmann J, et al. **Radiology** 1997 May;203(2):501-7

The relation between cartilage damage and osteophyte size in a murine model for osteoarthritis in the knee. van Osch GJ, et al. **Rheumatol Int** 1996;16(3):115-9

Current status of imaging of articular cartilage. Hodler J, et al. **Skeletal Radiol** 1996 Nov;25(8):703-9 (41 ref.)

Degenerative joint disease: cartilage or vascular disease? Imhof H, et al. **Skeletal Radiol** 1997 Jul;26(7):398-403

Magnetic resonance imaging of labral cysts of the hip. Schnarkowski P, et al. **Skeletal Radiol** 1996 Nov; 25(8):733-7

Chondromalacia patellae: an in vitro study. Comparison of MR criteria with histologic and macroscopic findings. van Leersum M, et al. **Skeletal Radiol** 1996 Nov;25(8):727-32

A topographical study of cartilaginous lesions to the elbow. Debouck C, et al. **Surg Radiol Anat** 1995;17(4):301-5

MR imaging of cartilage: evaluation and comparison of MR imaging techniques. Balkissoon A. **Top Magn Reson Imaging** 1996 Feb;8(1):57-67 (34 ref.)

Equine dyschondroplasia (osteochondrosis)--histological findings and type VI collagen localization. Henson FM, et al. **Vet J** 1997 Jul;154(1):53-62

[Evaluating cartilage markers after meniscectomy in longitudinal follow-up] Lindhorst E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:471-4 (Eng. Abstr.) **(Ger)**

[Indirect MR arthrography in the diagnosis of lesions of the labrum glenoidale] Sommer T, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):46-51 (Eng. Abstr.) **(Ger)**

[Inflammatory cytokine mediated anti-anabolic effects: a potential mechanism in rheumatoid cartilage degeneration] Aigner T, et al. **Verh Dtsch Ges Pathol** 1996;80:282-7 (Eng. Abstr.) **(Ger)**

[Pathology and progression of intra-articular inflammation in rheumatoid arthritis] Geiler G. **Verh Dtsch Ges Pathol** 1996;80:46-57 (50 ref.) (Eng. Abstr.) **(Ger)**

[Intra-articular B-cells in the pathogenesis of rheumatoid arthritis] Krenn V, et al. **Verh Dtsch Ges Pathol** 1996; 80:58-66 (35 ref.) (Eng. Abstr.) **(Ger)**

[Imaging of hip joint cartilage and its significance for the intertrochanteric transposition osteotomies in coxarthrosis] Bernd L, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul-Aug; 134(4):366-70 (41 ref.) (Eng. Abstr.) **(Ger)**

[Magnetic resonance assessment of knee joint hyaline cartilage according to age, sex, and body weight] Cova M, et al. **Radiol Med (Torino)** 1996 Sep;92(3):171-9 (Eng. Abstr.) **(Ita)**

[Assessment with magnetic resonance of cartilage injuries of the knee with tridimensional techniques with fat suppression] Ginolfi F, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):206-9 (Eng. Abstr.) **(Ita)**

PHYSIOLOGY

Regeneration of articular cartilage defects in rabbits by osteogenic protein-1 (bone morphogenetic protein-7). Grgić M, et al. **Acta Med Croatica** 1997;51(1):23-7

Effects of fluid flow on intracellular calcium in bovine articular chondrocytes. Yellowley CE, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C30-6

Maintenance of equine articular cartilage explants in serum-free and serum-supplemented media, compared with that in a commercial supplemented medium. Kawcak CE, et al. **Am J Vet Res** 1996 Sep;57(9):1261-5

Variations in the mechanical properties of cartilage from the canine scapulohumeral joint. Korvick D, et al. **Am J Vet Res** 1997 Sep;58(9):949-53

Intra-articular pressure, elastance, and range of motion in flexion of the equine metacarpophalangeal joint. Strand E, et al. **Am J Vet Res** 1995 Oct;56(10):1362-71

Streaming potentials during the confined compression creep test of normal and proteoglycan-depleted cartilage. Chen AC, et al. **Ann Biomed Eng** 1997 Mar-Apr;25(2):269-77

Contributions of fluid convection and electrical migration to transport in cartilage: relevance to loading. Garcia AM, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):317-25

The behaviour of collagen fibres in stress relaxation and stress distribution in the jaw-joint disc of rabbits. Scapino RP, et al. **Arch Oral Biol** 1996 Nov;41(11):1039-52

Does arthroscopic abrasion arthroplasty promote cartilage regeneration in osteoarthritic knees with eburnation? A prospective study of high tibial osteotomy with abrasion arthroplasty versus high tibial osteotomy alone. Akizuki S, et al. **Arthroscopy** 1997 Feb;13(1):9-17

Techniques of cartilage growth enhancement: a review of the literature. Wirth CJ, et al. **Arthroscopy** 1996 Jun; 12(3):300-8 (96 ref.)

Annexin V-mediated calcium flux across membranes is dependent on the lipid composition: implications for cartilage mineralization. Kirsch T, et al. **Biochemistry** 1997 Mar 18;36(11):3359-67

Dynamic unconfined compression of articular cartilage under a cyclic compressive load. Suh JK. **Biorheology** 1996 Jul-Oct;33(4-5):289-304

Load tolerance of tibial plateau depressions reinforced with a cluster of K-wires. Beris AE, et al. **Bull Hosp Jt Dis** 1996;55(1):12-5

Gap junctions mediate intercellular calcium signalling in cultured articular chondrocytes. D'Andrea P, et al. **Cell Calcium** 1996 Nov;20(5):389-97

Principles of cartilage repair and regeneration. Caplan AI, et al. **Clin Orthop** 1997 Sep;(342):254-69

The biomechanics of cartilage load-carriage. Oloyede A, et al. **Connect Tissue Res** 1996;34(2):119-43 (96 ref.)

Requirement of fibroblast growth factor signaling for regeneration of epiphyseal morphology in rabbit full-thickness defects of articular cartilage. Otsuka Y, et al. **Dev Growth Differ** 1997 Apr;39(2):143-56

Extracellular nucleotides act through P2U purinoceptors to elevate [Ca2+]i and enhance basic fibroblast growth factor-induced proliferation in sheep chondrocytes. Kaplan AD, et al. **Endocrinology** 1996 Nov;137(11):4757-66

Parathyroid hormone-related peptide delays terminal differentiation of chondrocytes during endochondral bone development. Lee K, et al. **Endocrinology** 1996 Nov; 137(11):5109-18

Syndecan-3 and the control of chondrocyte proliferation during endochondral ossification. Shimazu A, et al. **Exp Cell Res** 1996 Nov 25;229(1):126-36

The cellular physiology of articular cartilage. Hall AC, et al. **Exp Physiol** 1996 May;81(3):535-45 (29 ref.)

Effects of growth factors on cartilage repair. Coutts RD, et al. **Instr Course Lect** 1997;46:487-94 (95 ref.)

Articular cartilage deformation under physiological cyclic loading--apparatus and measurement technique. Barker MK, et al. **J Biomech** 1997 Apr;30(4):377-81

Optical and mechanical determination of Poisson's ratio of adult bovine humeral articular cartilage. Jurvelin JS, et al. **J Biomech** 1997 Mar;30(3):235-41

Compressive behavior of articular cartilage is not completely explained by proteoglycan osmotic pressure. Khalsa PS, et al. **J Biomech** 1997 Jun;30(6):589-94

Comment on 'A theoretical solution for the frictionless rolling contact of cylindrical biphasic articular cartilage layers' [letter; comment] Mann RW, et al. **J Biomech** 1997 Jan;30(1):99. Comment on: J Biomech 1995 Nov;28(11):1341-55.

A computer-controlled mechanical culture system for biological testing of articular cartilage explants. Steinmeyer J. **J Biomech** 1997 Aug;30(8):841-5

The normal stress effect and equilibrium friction coefficient of articular cartilage under steady frictional shear. Wang H, et al. **J Biomech** 1997 Aug;30(8):771-6

An improved solution for the contact of two biphasic cartilage layers. Wu JZ, et al. **J Biomech** 1997 Apr; 30(4):371-5

Modeling axi-symmetrical joint contact with biphasic cartilage layers--an asymptotic solution. Wu JZ, et al. **J Biomech** 1996 Oct;29(10):1263-81

CARTILAGE, ARTICULAR

A theoretical formulation for boundary friction in articular cartilage. Ateshian GA. **J Biomech Eng** 1997 Feb; 119(1):81–6

Establishment of a novel chondrocyte–like cell line derived from transgenic mice harboring the temperature–sensitive simian virus 40 large T–antigen gene. Mataga N, et al. **J Bone Miner Res** 1996 Nov;11(11):1646–54

Unweighting accelerates tidemark advancement in articular cartilage at the knee joint of rats. O'Connor KM. **J Bone Miner Res** 1997 Apr;12(4):580–9

Integrin alpha2beta1 is a receptor for the cartilage matrix protein chondroadherin. Camper L, et al. **J Cell Biol** 1997 Sep 8;138(5):1159–67

Anatomical and biomechanical studies of the pathogenesis of trapeziometacarpal degenerative arthritis. Najima H, et al. **J Hand Surg [Br]** 1997 Apr;22(2):183–8

Cyclic tensile stretch on bovine articular chondrocytes inhibits protein kinase C activity. Fukuda K, et al. **J Lab Clin Med** 1997 Aug;130(2):209–15

Effects of continuous distraction on cartilage in a moving joint: an investigation on adult rabbits. Hung SC, et al. **J Orthop Res** 1997 May;15(3):381–90

Small–angle HeNe laser light scatter and the compressive modulus of articular cartilage. Kovach IS, et al. **J Orthop Res** 1997 May;15(3):437–41

Deformation of loaded articular cartilage prepared for scanning electron microscopy with rapid freezing and freeze–substitution fixation. Nötzli H, et al. **J Orthop Res** 1997 Jan;15(1):76–86

Recombinant human bone morphogenetic protein–2 maintains the articular chondrocyte phenotype in long–term culture. Sailor LZ, et al. **J Orthop Res** 1996 Nov;14(6):937–45

Chondrocyte biosynthesis correlates with local tissue strain in statically compressed adult articular cartilage. Wong M, et al. **J Orthop Res** 1997 Mar;15(2):189–96

Early elevation of transforming growth factor–beta, decorin, and biglycan mRNA levels during cartilage matrix restoration after mild proteoglycan depletion. van der Kraan PM, et al. **J Rheumatol** 1997 Mar;24(3):543–9

Evidence for insufficient chondrocytic differentiation during repair of full–thickness defects of articular cartilage. Metsäranta M, et al. **Matrix Biol** 1996 Apr;15(1):39–47

An investigation of the stress distribution generated in articular cartilage by crystal aggregates of varying material properties. Hayes A, et al. **Med Eng Phys** 1997 Apr; 19(3):242–52

A large–conductance voltage–dependent potassium channel in cultured pig articular chondrocytes. Mozrzymas JW, et al. **Pflugers Arch** 1997 Feb;433(4):413–27

Simultaneous measurement of stiffness and energy absorptive properties of articular cartilage and subchondral trabecular bone. Røhl L, et al. **Proc Inst Mech Eng [H]** 1997; 211(3):257–64

A technique for measuring the compressive modulus of articular cartilage under physiological loading rates with preliminary results. Shepherd DE, et al. **Proc Inst Mech Eng [H]** 1997;211(2):155–65

A comparison of finite element codes for the solution of biphasic poroelastic problems [letter] van der Voet A. **Proc Inst Mech Eng [H]** 1997;211(2):209–11

[Osteocartilaginous reconstruction, research and clinical application] Eberlin JL, et al. **Swiss Surg** 1996;2(6):264–8 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Cartilage repair. A critical review [see comments] Messner K, et al. **Acta Orthop Scand** 1996 Oct;67(5):523–9 (58 ref.) . Comment in: Acta Orthop Scand 1997 Apr;68(2):186–91.

The pathophysiology of cartilage and synovium. Freemont AJ. **Br J Rheumatol** 1996 Dec;35 Suppl 3:10–3

Complement Cls, a classical enzyme with novel functions at the endochondral ossification center: immunohistochemical staining of activated Cls with a neoantigen–specific antibody. Sakiyama H, et al. **Cell Tissue Res** 1997 Jun;288(3):557–65

The stimulation of mononuclear cells from patients with rheumatoid arthritis to degrade articular cartilage is not modulated by cartilage itself. van Roon JA, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):177–82

Mechanisms of cartilage destruction and novel nonsurgical therapeutic strategies to retard cartilage injury in rheumatoid arthritis. Häuselmann HJ. **Curr Opin Rheumatol** 1997 May;9(3):241–50 (88 ref.)

Programmed cell death of chondrocytes and aberrant chondrogenesis in mice homozygous for parathyroid hormone–related peptide gene deletion. Amizuka N, et al. **Endocrinology** 1996 Nov;137(11):5055–67

Physical properties of rabbit articular cartilage after transection of the anterior cruciate ligament. Sah RL, et al. **J Orthop Res** 1997 Mar;15(2):197–203

Distributional changes in substance P nociceptive fiber patterns in naturally osteoarthritic articulations. Fortier LA, et al. **J Rheumatol** 1997 Mar;24(3):524–30

Major role for interleukin 1 but not for tumor necrosis factor in early cartilage damage in immune complex arthritis in mice. Van Lent PL, et al. **J Rheumatol** 1995 Dec; 22(12):2250–8

Relation of ligament damage with site specific cartilage loss and osteophyte formation in collagenase induced osteoarthritis in mice. van Osch GJ, et al. **J Rheumatol** 1996 Jul;23(7):1227–32

Dynamic fracture characteristics of the osteochondral junction undergoing shear deformation. Broom ND, et al. **Med Eng Phys** 1996 Jul;18(5):396–404

Biochemical and biomechanical alterations in equine articular cartilage following an experimentally–induced synovitis. Palmer JL, et al. **Osteoarthritis Cartilage** 1996 Jun; 4(2):127–37

Cytokines and the pathophysiology of bone erosions in rheumatoid arthritis. Miossec P. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):89S–91S (15 ref.)

RADIOGRAPHY

Evaluation of knee–joint cartilage and menisci ten years after isolated and combined ruptures of the medial collateral ligament. Investigation by weight–bearing radiography, MR imaging and analysis of proteoglycan fragments in the joint fluid. Lundberg M, et al. **Acta Radiol** 1997 Jan; 38(1):151–7

Three–dimensional characteristics of cartilaginous and bony components of dysplastic hips in children: three–dimensional computed tomography quantitative analysis. Lin CJ, et al. **J Pediatr Orthop** 1997 Mar–Apr; 17(2):152–7

SURGERY

Bilateral fabellar impingement after knee replacement––a case report. Erichsen H. **Acta Orthop Scand** 1997 Aug;68(4):403

Cartilage repair. A critical review [see comments] Messner K, et al. **Acta Orthop Scand** 1996 Oct;67(5):523–9 (58 ref.) . Comment in: Acta Orthop Scand 1997 Apr;68(2):186–91.

Chondrocyte transplantation and experimental treatment options for articular cartilage defects. Chen FS, et al. **Am J Orthop** 1997 Jun;26(6):396–406 (98 ref.)

Correlation of patellar articular lesions with results from anteromedial tibial tubercle transfer. Pidoriano AJ, et al. **Am J Sports Med** 1997 Jul–Aug;25(4):533–7

The role of mandibular condylar cartilage in articular cartilage repair. Girdler NM. **Ann R Coll Surg Engl** 1997 Jan;79(1):28–37

Arthroscopic repairs of triangular fibrocartilage complex tears. Baehser–Griffith P, et al. **AORN J** 1997 Jul; 66(1):101–2, 105–11, quiz 112, 115, 117–8 (23 ref.)

Arthroscopic repair of peripheral avulsions of the triangular fibrocartilage complex of the wrist: a multicenter study. Corso SJ, et al. **Arthroscopy** 1997 Feb;13(1):78–84

New Tuohy needle technique for triangular fibrocartilage complex repair: preliminary studies. de Araujo W, et al. **Arthroscopy** 1996 Dec;12(6):699–703

Radial avulsion of the triangular fibrocartilage complex in acute wrist trauma: a new technique for arthroscopic repair. Fellinger M, et al. **Arthroscopy** 1997 Jun;13(3):370–4

Chondrocyte transplantation. Jackson DW, et al. **Arthroscopy** 1996 Dec;12(6):732–8 (17 ref.)

Chondrocyte transplantation [letter] McPherson JM, et al. **Arthroscopy** 1997 Aug;13(4):541–7

A comparison of abrasion burr arthroplasty and subchondral drilling in the treatment of full–thickness cartilage lesions in the rabbit. Menche DS, et al. **Arthroscopy** 1996 Jun; 12(3):280–6

Effects of holmium: YAG laser energy on cartilage metabolism, healing, and biochemical properties of lesional and perilesional tissue in a weight–bearing model. Pullin JG, et al. **Arthroscopy** 1996 Feb;12(1):15–25

Arthroscopic repair of the triangular fibrocartilage complex. Trumble TE, et al. **Arthroscopy** 1996 Oct;12(5):588–97

Influence of fibrin sealant (Tisseel) on osteochondral defect repair in the rabbit knee. Brittberg M, et al. **Biomaterials** 1997 Feb;18(3):235–42

Fetal chondral homografts in the repair of articular cartilage defects. Specchia N, et al. **Bull Hosp Jt Dis** 1996; 54(4):230–5

Subchondral bone and cartilage repair with bioactive glasses, hydroxyapatite, and hydroxyapatite–glass composite. Suominen E, et al. **J Biomed Mater Res** 1996 Dec; 32(4):543–51

Ulna–shortening osteotomy after failed arthroscopic debridement of the triangular fibrocartilage complex. Hulsizer D, et al. **J Hand Surg [Am]** 1997 Jul;22(4):694–8

Current concepts in the treatment of articular cartilage defects. Minas T, et al. **Orthopedics** 1997 Jun;20(6):525–38 (41 ref.)

Cartilage resurfacing: facts, fictions, and facets. Thornhill TS. **Orthopedics** 1997 Sep;20(9):819–20

Biologic restoration of articular cartilage. Goldberg VM. **Ryumachi** 1997 Apr;37(2):148

[Reconstruction of TMJ condyle cartilage defects with autogenous free periosteal grafts] Han C, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1996 Jan;31(1):42–4 (Eng. Abstr.) **(Chi)**

[The use of lasers in surgical orthopedics. A current review] Schmolke S, et al. **Orthopade** 1997 Mar;26(3):267–72 (25 ref.) (Eng. Abstr.) **(Ger)**

[Shaving of the cartilage: how much is healthy?] Jung M, et al. **Ther Umsch** 1996 Oct;53(10):787–9 (Eng. Abstr.) **(Ger)**

[Purulent inflammation of the fetlock joint in cattle––treatment by joint resection] Geishauser T. **Tierarztl Prax** 1997 Apr;25(2):123–9 (Eng. Abstr.) **(Ger)**

[The principle of autogeneic rib perichondrial transplantation in the treatment of deep articular cartilage defects] Bruns J, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar–Apr; 135(2):138–44 (Eng. Abstr.) **(Ger)**

[Twenty–eight years' treatments using high tibial osteotomy with development of Y–blade plate and postoperative repair of degenerated cartilage in the osteoarthritic knee] Koshino T. **Nippon Seikeigeka Gakkai Zasshi** 1996 Dec; 70(12):817–25 (29 ref.) **(Jpn)**

TRANSPLANTATION

Synovial fibroblasts of patients with rheumatoid arthritis attach to and invade normal human cartilage when engrafted into SCID mice. Müller–Ladner U, et al. **Am J Pathol** 1996 Nov;149(5):1607–15

Cartilage–flow phenomenon and evidence for it in perichondrial grafting. Bruns J, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):66–73

Osteochondral allografts with an intramedullary muscle flap in rabbits. Brown DM, et al. **Clin Orthop** 1997 Jan; (334):282–90

Experimental use of small osteochondral grafts for resurfacing the equine third carpal bone. Hurtig MB. **Equine Vet J Suppl** 1988 Sep;(6):23–7

Osteochondritis dissecans of the humeral head: treatment with a matched osteochondral allograft. Johnson DL, et al. **J Shoulder Elbow Surg** 1997 Mar–Apr;6(2):160–3

Human articular cartilage storage in cell culture medium: guidelines for storage of fresh osteochondral allografts. Sammarco VJ, et al. **Orthopedics** 1997 Jun;20(6):497–500

Ex vivo gene transfer to chondrocytes in full–thickness articular cartilage defects: a feasibility study. Kang R, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):139–43

ULTRASONOGRAPHY

The cartilaginous femoral sulcus in children with patellar dislocation: an ultrasonographic study. Nietosvaara Y, et al. **J Pediatr Orthop** 1997 Jan–Feb;17(1):50–3

Precision of sonographic measurement of articular cartilage: inter– and intraobserver analysis. Castriota–Scanderbeg A, et al. **Skeletal Radiol** 1996 Aug;25(6):545–9

Ultrasonic characterization of in vitro osteoarthritic articular cartilage with validation by confocal microscopy. Chiang EH, et al. **Ultrasound Med Biol** 1997;23(2):205–13

ULTRASTRUCTURE

Differences in submicroscopic structure of the extracellular matrix of canine femoral and tibial condylar articular cartilages as revealed by polarization microscopical analysis. Módis L, et al. **Acta Biol Hung** 1996; 47(1–4):341–53

Structural peculiarities of the tissue formed in modelling of the articular surface. Shevtsov VI, et al. **Bull Hosp Jt Dis** 1997;56(2):91–4

The biomechanics of cartilage load–carriage. Oloyede A, et al. **Connect Tissue Res** 1996;34(2):119–43 (96 ref.)

CD44–anchored hyaluronan–rich pericellular matrices: an ultrastructural and biochemical analysis. Knudson W, et al. **Exp Cell Res** 1996 Nov 1;228(2):216–28

Degradation of articular cartilage during the progression of antigen–induced arthritis in mice. A scanning and transmission electron microscopic study. Henzgen S, et al. **Exp Toxicol Pathol** 1996 Jun;48(4):255–63

Vitrified articular cartilage reveals novel ultra–structural features respecting extracellular matrix architecture. Hunziker EB, et al. **Histochem Cell Biol** 1996 Oct; 106(4):375–82

Deformation of loaded articular cartilage prepared for scanning electron microscopy with rapid freezing and freeze–substitution fixation. Nötzli H, et al. **J Orthop Res** 1997 Jan;15(1):76–86

Early ultrastructural changes of articular cartilage and synovial membrane in experimental vitamin A–induced osteoarthritis. Lapadula G, et al. **J Rheumatol** 1995 Oct; 22(10):1913–21

Surface and subsurface morphology of bovine humeral articular cartilage as assessed by atomic force and transmission electron microscopy. Jurvelin JS, et al. **J Struct Biol** 1996 Jul–Aug;117(1):45–54

Superficial and deep defects in dyschondroplastic and degenerated pig articular cartilage. Della Salda L, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):51–8

Ultrastructural identification of a membrane–like structure on the surface of normal articular cartilage. Guerra D, et al. **J Submicrosc Cytol Pathol** 1996 Jul;28(3):385–93

Scanning electron microscopy of "fibrillated" and "malacic" human articular cartilage: technical considerations. Clark JM, et al. **Microsc Res Tech** 1997 May 15;37(4):299–313 (55 ref.)

Ultrastructure of adult human articular cartilage matrix after cryotechnical processing. Hunziker EB, et al. **Microsc Res Tech** 1997 May 15;37(4):271–84 (75 ref.)

The contribution of quantitative confocal laser scanning microscopy in cartilage research: chondrocyte insulin–like growth factor–1 receptors in health and pathology. Verschure PJ, et al. **Microsc Res Tech** 1997 May 15; 37(4):285–98 (65 ref.)

Comparative evaluation of ultrastructural changes in articular cartilage of ofloxacin–treated and magnesium–deficient immature rats. Shakibaei M, et al. **Toxicol Pathol** 1996 Sep–Oct;24(5):580–7

[A morphological study of degenerative mechanism of articular cartilage by abnormal high stress] Gu Y, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):597–600

(Eng. Abstr.) **(Chi)**
[Mineral changes in the intervertebral disc and facet joints during aging] Niedźwiedzki T, et al.
Chir Narzadow Ruchu Ortop Pol 1997;62(1):39-45 (Eng. Abstr.) **(Pol)**

VIROLOGY

In vivo direct gene transfer into articular cartilage by intraarticular injection mediated by HVJ (Sendai virus) and liposomes. Tomita T, et al. **Arthritis Rheum** 1997 May; 40(5):901-6
HIV infection of human cartilage. Campbell DG, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):22-5

CARTILAGE DISEASES

see related
ELLIS-VAN CREVELD SYNDROME
EPIPHYSES, SLIPPED
OSTEOCHONDRITIS

Fibrocartilaginous dysplasia. Hermann G, et al. **Skeletal Radiol** 1996 Jul;25(5):509-11 (13 ref.)

CHEMICALLY INDUCED

Chondrolysis of the shoulder following a "color test"-assisted rotator cuff repair--a report of 2 cases. Tamai K, et al. **Acta Orthop Scand** 1997 Aug;68(4):401-2
Quinolone-induced cartilage lesions are not reversible in rats. Förster C, et al. **Arch Toxicol** 1996;70(8):474-81

CLASSIFICATION

Classification of articular cartilage lesions of the knee at arthroscopy. Lewandrowski KU, et al. **Am J Knee Surg** 1996 Summer;9(3):121-8 (33 ref.)

COMPLICATIONS

Concomitant meniscal and articular cartilage lesions in the femorotibial joint. Lewandrowski KU, et al. **Am J Sports Med** 1997 Jul-Aug;25(4):486-94
[Protracted course of polychondritis as the etiology of progressive nose deformity, subglottic tracheal stenosis and inner ear hearing loss] Buttgereit F, et al. **Laryngorhinootologie** 1997 Jan;76(1):46-9 (Eng. Abstr.) **(Ger)**

CONGENITAL

Congenital cartilaginous rests of the neck. Kim SJ, et al. **Cutis** 1996 Oct;58(4):293-4

DIAGNOSIS

Congenital cartilaginous rests of the neck. Kim SJ, et al. **Cutis** 1996 Oct;58(4):293-4
Painful papules on the ear. Levine N. **Geriatrics** 1996 Sep; 51(9):22
Radiological case of the month. Torn discoid lateral meniscus, with a meniscal cyst. Nokes SR, et al. **J Ark Med Soc** 1994 Aug;91(3):143-4
Chondromalacia of the knee: evaluation with a fat-suppression three-dimensional SPGR imaging after intravenous contrast injection. Suh JS, et al. **J Magn Reson Imaging** 1996 Nov-Dec;6(6):884-8
Radiologic case study. Chondromalacia. Olson PN, et al. **Orthopedics** 1996 Jun;19(6):555, 558-60
Current status of imaging of articular cartilage. Hodler J, et al. **Skeletal Radiol** 1996 Nov;25(8):703-9 (41 ref.)
Magnetic resonance imaging of labral cysts of the hip. Schnarkowski P, et al. **Skeletal Radiol** 1996 Nov; 25(8):733-7
[Ulnodorsal impingement syndrome: meniscus lesions of the wrist] Schütz K, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):227-32 (Eng. Abstr.) **(Ger)**
[Comparison of different MRT techniques in the diagnosis of degenerative cartilage diseases. In vitro study of 50 joint specimens of the knee at T1.5] Bachmann G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):429-36 (Eng. Abstr.) **(Ger)**
[Patellar chondromalacia as a pathomorphological finding. There are no positive clinical or radiological signs] Ludwig J. **Z Orthop Ihre Grenzgeb** 1997 Mar-Apr;135(2):Oa12-3 **(Ger)**

ETIOLOGY

Tumefactive cartilage proliferation after rhinoplasty. A newly reported complication. Reiter D, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):72-5
Chondritis of the ear: a late sequela of deep partial thickness burns of the face. Bentrem DJ, et al. **J Emerg Med** 1996 Jul-Aug;14(4):469-71
Chondromalacia of the trochlear notch in athletes who throw. Robla J, et al. **J Shoulder Elbow Surg** 1996 Jan-Feb; 5(1):69-72
Spontaneous calcification of arteries and cartilage in mice lacking matrix GLA protein. Luo G, et al. **Nature** 1997 Mar 6;386(6620):78-81

GENETICS

Dwarfism and age-associated spinal degeneration of heterozygote cmd mice defective in aggrecan. Watanabe H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):6943-7

IMMUNOLOGY

Molecular basis of type II collagen autoimmune disease: observations of arthritis, auricular chondritis and tympanitis in mice. Fujiyoshi T, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jul-Aug; 59(4):215-29

METABOLISM

P-glycoprotein expression in cartilaginous tumors. Rosier RN, et al. **J Surg Oncol** 1997 Jun;65(2):95-105

PATHOLOGY

Ki-67 immunostaining as a tool in the diagnosis of central cartilage lesions. Weinstein LJ, et al. **Iowa Orthop J** 1996; 16:39-45
Histological comparison of patellar cartilage degeneration between chondromalacia in youth and osteoarthritis in aging. Mori Y, et al. **Knee Surg Sports Traumatol Arthrosc** 1995;3(3):167-72
Reactive bone and cartilage forming processes of the hands and feet [letter] Ishida T, et al. **Pathol Int** 1995 Dec; 45(12):975-6
Chondromalacia patellae: an in vitro study. Comparison of MR criteria with histologic and macroscopic findings. van Leersum M, et al. **Skeletal Radiol** 1996 Nov;25(8):727-32
[Chronic chondromalacia of the patella: comparison of morphological (magnetic resonance) and functional findings (isokinetic parameters) after rehabilitation] Felicetti G, et al. **Radiol Med (Torino)** 1996 Jul-Aug; 92(1-2):6-9 (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

The influence of subchondral vascularisation on chondromalacia patellae. Neusel E, et al. **Arch Orthop Trauma Surg** 1996;115(6):313-5
[Chronic chondromalacia of the patella: comparison of morphological (magnetic resonance) and functional findings (isokinetic parameters) after rehabilitation] Felicetti G, et al. **Radiol Med (Torino)** 1996 Jul-Aug; 92(1-2):6-9 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

General case of the day. Tracheobronchopathia osteochondroplastica. Williams SM, et al. **Radiographics** 1997 May-Jun;17(3):797-9
[What is your diagnosis? Costo-chondritis obscured by x-ray double-exposure] Rivera Del Río JR, et al. **Bol Asoc Med P R** 1997 Jan-Mar;89(1-3):33-4 (Eng. Abstr.) **(Spa)**

SURGERY

Chondropathia patellae. Soren A, et al. **Arch Orthop Trauma Surg** 1997;116(6-7):362-6
Hematoma and abscess of the nasal septum in children. Canty PA, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec; 122(12):1373-6
Meniscal repair by fibrocartilage in the dog: characterization of the repair tissue and the role of vascularity. Klompmaker J, et al. **Biomaterials** 1996 Sep;17(17):1685-91
Chondrodermatitis nodularis chronica helicis et antihelicis. Munnoch DA, et al. **Br J Plast Surg** 1996 Oct;49(7):473-6
Were the Hunter brothers wrong? Can surgical treatment repair articular cartilage? Buckwalter JA. **Iowa Orthop J** 1997;17:1-13 (75 ref.)

THERAPY

Intravenous gammaglobulin therapy of Satoyoshi syndrome. Arita J, et al. **Brain Dev** 1996 Sep-Oct;18(5):409-11
Eleven year follow-up of patello-femoral pain syndrome. Karlsson J, et al. **Clin J Sport Med** 1996 Jan;6(1):22-6
[Selective training of the vastus medialis muscle using electrical stimulator for chondromalacia patella] Guo K, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr;18(2):156-60 (Eng. Abstr.) **(Chi)**

CARTILAGE, EPIPHYSEAL see **GROWTH PLATE**

CARTOONS

Comic books and development [letter] Potenza M, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Dec; 35(12):1573-4

PSYCHOLOGY

Nurse coaching and cartoon distraction: an effective and practical intervention to reduce child, parent, and nurse distress during immunizations. Cohen LL, et al. **J Pediatr Psychol** 1997 Jun;22(3):355-70

CARUBICIN

ANALOGS & DERIVATIVES

Pharmacokinetics and pharmacodynamics of MX2 hydrochloride in patients with advanced malignant disease. Morgan DJ, et al. **Cancer Chemother Pharmacol** 1997; 40(3):202-8
Induction of apoptosis in megakaryocytic leukemia cell lines by MX2, a morpholino anthracycline. Katsurada T, et al. **Exp Hematol** 1997 Sep;25(10):1077-83

CASANTHRANOL see **CASCARA**

CASCARA

NG-nitro-L-arginine methyl ester reduces senna- and cascara-induced diarrhoea and fluid secretion in the rat. Izzo AA, et al. **Eur J Pharmacol** 1996 Apr 22; 301(1-3):137-42

ADVERSE EFFECTS

Initial description of gastric melanosis in a laxative-abusing patient. Mitty RD, et al. **Am J Gastroenterol** 1997 Apr; 92(4):707-8 (4 ref.)

TOXICITY

The role of constitutive and inducible nitric oxide synthase in senna- and cascara-induced diarrhoea in the rat. Izzo AA, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):93-7

CASE-BASE STUDIES see **CASE-CONTROL STUDIES**

CASE-COMPARISON STUDIES see **CASE-CONTROL STUDIES**

CASE-CONTROL STUDIES

Pregnancy outcome in natural family planning users: cohort and case-control studies evaluating safety. Simpson JL, et al. **Adv Contracept** 1997 Jun-Sep;13(2-3):201-14 (30 ref.)
Power and sample size calculations for case-control studies of gene-environment interactions with a polytomous exposure variable. Foppa I, et al. **Am J Epidemiol** 1997 Oct 1;146(7):596-604
Correcting for measurement error in the analysis of case-control data with repeated measurements of exposure. Kim MY, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1003-10
Comparability of different methods of retrospective exposure assessment of metals in manufacturing industries. Rybicki BA, et al. **Am J Ind Med** 1997 Jan;31(1):36-43
Natural family planning and Down syndrome--matching and confounding in a case control study [letter; comment] Pelz J. **Am J Med Genet** 1996 Dec 18;66(3):363-4. Comment on: Am J Med Genet 1995 Dec 4;59(4):525.
Selecting a control group in studies of the familial coaggregation of two disorders: a quantitative genetics perspective. Roy MA, et al. **Am J Med Genet** 1997 May 31;74(3):296-303
Use of veterinary clinic records for evaluating possible risk factors for disease. Morton JM. **Aust Vet J** 1996 Nov; 74(5):365-6 (9 ref.)
The analysis of categorical case-control data subject to nonignorable nonresponse. Baker SG. **Biometrics** 1996 Mar; 52(1):362-9
Assessing the fit of the logistic regression model to individual matched sets of case-control data. Bedrick EJ, et al. **Biometrics** 1996 Mar;52(1):1-9
Estimation of excess risk from case-control data using Aalen's linear regression model. Borgan O, et al. **Biometrics** 1997 Jun;53(2):690-7
Estimating the generalized impact fraction from case-control data. Drescher K, et al. **Biometrics** 1997 Sep;53(3):1170-6
Estimation of absolute risk from nested case-control data. Langholz B, et al. **Biometrics** 1997 Jun;53(2):767-74
Cases and controls from different settings: ideals and practicalities [editorial; comment] Fletcher RH. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):555-6. Comment on: Cancer Epidemiol Biomarkers Prev 1997 Aug;6(8):565-71.
Identifying and recruiting healthy control subjects from a managed care organization: a methodology for molecular epidemiological case-control studies of cancer [see comments] Hudmon KS, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):565-71. Comment in: Cancer Epidemiol Biomarkers Prev 1997 Aug;6(8):555-6.
The case-control study and its potential biases [editorial; comment] Yazici H, et al. **Clin Exp Rheumatol** 1996 Jul-Aug;14(4):355-8. Comment on: Clin Exp Rheumatol 1996 Jul-Aug;14(4):407-12.
A least squares algorithm for estimating epidemiological indices in case-control studies with non-differential misclassification. Marinos AT. **Comput Methods Programs Biomed** 1997 May;53(1):47-55
Case-control studies and their application to endocrinology. Gold EB. **Endocrinol Metab Clin North Am** 1997 Mar; 26(1):1-15 (24 ref.)
Confounding and exposure trends in case-crossover and case-time-control designs. Greenland S. **Epidemiology** 1996 May;7(3):231-9
Increased precision using countermatching in nested case-control studies [see comments] Steenland K, et al. **Epidemiology** 1997 May;8(3):238-42. Comment in: Epidemiology 1997 May;8(3):227-9.
Adjusted odds ratios for case-control studies with missing confounder data in controls. Suissa S, et al. **Epidemiology** 1997 May;8(3):275-80
The case-control study as data missing by design: estimating

risk differences [see comments] Wacholder S. **Epidemiology** 1996 Mar;7(2):144–50. Comment in: Epidemiology 1997 Jan;8(1):111–2.

The best measure of uncertainty—hypothesis tests or tests of estimation? [letter; comment] Grimes DA. **Fertil Steril** 1997 Jul;68(1):177–8. Comment on: Fertil Steril 1997 Jan;67(1):30–3.

Energy, nutrient intake and prostate cancer risk: a population-based case-control study in Sweden. Andersson SO, et al. **Int J Cancer** 1996 Dec 11;68(6):716–22

Repeat measurement of case-control data: corrections for measurement error in a study of ischaemic stroke and haemostatic factors. Bashir SA, et al. **Int J Epidemiol** 1997 Feb;26(1):64–70

Matched-pair case-control studies when risk factors are correlated within the pairs. Gladen BC. **Int J Epidemiol** 1996 Apr;25(2):420–5

The lack of selection bias in a snowball sampled case-control study on drug abuse. Lopes CS, et al. **Int J Epidemiol** 1996 Dec;25(6):1267–70

A novel approach to data collection in a case-control study of cancer and occupational exposures. Stewart PA, et al. **Int J Epidemiol** 1996 Aug;25(4):744–52

Assessment of exposure misclassification bias in case-control studies using validation data. Marshall RJ. **J Clin Epidemiol** 1997 Jan;50(1):15–9

Post hoc analysis: use and dangers in perspective. Elliott HL. **J Hypertens Suppl** 1996 Sep;14(2):S21–4; discussion S24–5 (25 ref.)

Case-control studies of the efficacy of screening for cancer: can we earn them some respect [editorial] Weiss NS. **J Med Screen** 1997;4(2):57–9

PACE-setting research. Engels EA, et al. **Lancet** 1997 Sep 6;350(9079):677–8

Case-control association studies in complex traits—the end of an era? Paterson AD. **Mol Psychiatry** 1997 Jul;2(4):277–8

Case control studies. Bellocco R, et al. **Nutrition** 1996 Oct; 12(10):728–9

Misclassification in case-control studies. Bellocco R, et al. **Nutrition** 1997 Feb;13(2):164–5

One is the liveliest number: the case orientation of qualitative research. Sandelowski M. **Res Nurs Health** 1996 Dec; 19(6):525–9

Differential recall bias and spurious associations in case/control studies. Barry D. **Stat Med** 1996 Dec 15; 15(23):2603–16

Assessment of postpartum time-dependent disease risk in case-control studies: an application for examining age-specific effect estimates. Hsieh CC, et al. **Stat Med** 1996 Jul 30;15(14):1545–56

Re-using data from case-control studies. Lee AJ, et al. **Stat Med** 1997 Jun 30;16(12):1377–89

Confidence intervals for the excess risk in case-control studies. Siskind V. **Stat Med** 1996 Jul 30;15(14):1535–44

Designing and analysing case-control studies to exploit independence of genotype and exposure. Umbach DM, et al. **Stat Med** 1997 Aug 15;16(15):1731–43

The lattice diagram and 2 x 2 tables. Ozonoff D, et al. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):339–55

[Relative risk and odds ratio] Steurer J. **Schweiz Rundsch Med Prax** 1997 Jul 2;86(27–28):1122–3 **(Ger)**

[Application of the case-control method to the evaluation of screening tests] Weiss NS. **Bol Oficina Sanit Panam** 1996 Oct;121(4):310–7 **(Spa)**

[Review: hybrid designs of cohort studies and case control studies] Delgado-Rodríguez M, et al. **Gac Sanit** 1995 Jan-Feb;9(46):42–52 (Eng. Abstr.) **(Spa)**

CASE MANAGEMENT

see related
MANAGED CARE PROGRAMS

Frequent users of the emergency department: can we intervene? Spillane LL, et al. **Acad Emerg Med** 1997 Jun; 4(6):574–80

Recurrent near-syncope with flushing. Suchard JR. **Acad Emerg Med** 1997 Jul;4(7):718–24

Introducing case management to a general medicine ward team of a teaching hospital. Sivaram CA, et al. **Acad Med** 1997 Jun;72(6):555–7

Prevalence, recognition and management of mental disorders in primary health care in Northern Jordan. Al-Jaddou H, et al. **Acta Psychiatr Scand** 1997 Jul;96(1):31–5

A simple program to train case managers in community elderly care. Landi F, et al. **Aging (Milano)** 1996 Jun; 8(3):211–8

Patterns and predictors of cocaine and crack use by clients in standard and enhanced methadone maintenance treatment. Grella CE, et al. **Am J Drug Alcohol Abuse** 1997 Feb;23(1):15–42

Effects of case management on retention in prenatal substance abuse treatment. Laken MP, et al. **Am J Drug Alcohol Abuse** 1996 Aug;22(3):439–48

Disease management programs [published erratum appears in Am J Health Syst Pharm 1996 Feb 1;53(3):325] Armstrong EP, et al. **Am J Health Syst Pharm** 1996 Jan 1;53(1):53–8 (15 ref.)

Closing the treatment gap: in the community and at hospital discharge. Greenland P. **Am J Med** 1996 Oct 8; 101(4A):4A76S–78S

The use of administrative data to risk-stratify asthmatic patients. Grana J, et al. **Am J Med Qual** 1997 Summer; 12(2):113–9

Cost-effectiveness of case management: experiences of a university managed health care organization. Warren BH, et al. **Am J Med Qual** 1996 Winter;11(4):173–8

Recipient selection and management before cardiac transplantation. Frantz RP, et al. **Am J Med Sci** 1997 Sep; 314(3):139–52

Epilepsy in children. Arnold ST, et al. **Baillieres Clin Neurol** 1996 Dec;5(4):783–802 (77 ref.)

Modern management of epilepsy: Adolescents. Besag FM. **Baillieres Clin Neurol** 1996 Dec;5(4):803–20 (47 ref.)

Case management, care management and care programming [editorial] Burns T. **Br J Psychiatry** 1997 May;170:393–5

Diversity in case management modalities: the Summit model. Peterson GA, et al. **Community Ment Health J** 1997 Jun; 33(3):245–50; discussion 251–3

RNdex case management offers Internet access [news] **Comput Nurs** 1997 Jan-Feb;15(1):5, 11, 13

Dilemmas in family practice education. How to handle inpatients. Campbell DC. **Fam Med** 1997 May;29(5):310–1

The difficult patient: creation of a curriculum by third-year family practice residents [see comments] Philp EB, et al. **Fam Med** 1996 Sep;28(8):553–8. Comment in: Fam Med 1997 May;29(5):306; discussion 306–7.

Multiple sclerosis: management in Dutch general practice. Donker GA, et al. **Fam Pract** 1996 Oct;13(5):439–44

Case management styles for people with AD: do the differences make a difference? Arnsberger P. **Geriatrics** 1997 Sep;52 Suppl 2:S44–7

Patients, caregivers, and managing care. Baxter E. **Geriatrics** 1997 Sep;52 Suppl 2:S48–9

Empowerment education: a case study of the Resource Sisters/Compañeras Program. Lugo NR. **Health Educ Q** 1996 Aug;23(3):281–9; discussion 290–2

Management of diarrhea in a DTU. Kamala CS, et al. **Indian Pediatr** 1996 Oct;33(10):856–60

Management of subacute stent closure. Hasdai D, et al. **Int J Cardiol** 1996 Jul 26;55(2):115–6 (10 ref.)

Coordination of care: effects on the continuity and quality of care. Van Achterberg T, et al. **Int J Nurs Stud** 1996 Dec;33(6):638–50

Sexually transmitted diseases: a survey of case management in Malawi. Chilongozi DA, et al. **Int J STD AIDS** 1996 Jul;7(4):269–75

Case management and patient reactions: a study of STD care in a province in Zambia. Hanson S, et al. **Int J STD AIDS** 1997 May;8(5):320–8

Homelessness and substance use among alcohol abusers following participation in project H&ART. Lapham SC, et al. **J Addict Dis** 1995;14(4):41–55

Evaluating alternative treatments for homeless substance-abusing men: outcomes and predictors of success. Stahler GJ, et al. **J Addict Dis** 1995;14(4):151–67

Clinical decision-making by midwives: managing case complexity. Cioffi J, et al. **J Adv Nurs** 1997 Feb; 25(2):265–72

Compliance/adherence and care management in HIV disease. Crespo-Fierro M. **J Assoc Nurses AIDS Care** 1997 Jul-Aug;8(4):43–54 (80 ref.)

Task analysis training of case managers to assist seriously mentally ill patients find roommates and housing. Long SL, et al. **J Behav Ther Exp Psychiatry** 1996 Sep; 27(3):269–80

Teaching medical students by role playing: a model for integrating psychosocial issues with disease management. Mann BD, et al. **J Cancer Educ** 1996 Summer;11(2):65–72

Preventing gastro-enteritis deaths: recommendations based on a 3 years study. Gulati N, et al. **J Commun Dis** 1995 Dec;27(4):256–61

Effectiveness of an Indonesian model for rapid training of Guatemalan health workers in diarrhea case management. Bailey JE, et al. **J Community Health** 1996 Aug; 21(4):269–76

Effect of a nurse case manager on postdischarge follow-up. Einstadter D, et al. **J Gen Intern Med** 1996 Nov; 11(11):684–8

The role of case management in substance abuse treatment services for women and their children. Brindis CD, et al. **J Psychoactive Drugs** 1997 Jan-Mar;29(1):79–88 (66 ref.)

Catastrophic consequences secondary to psychotropic drugs, Part 2. Keltner NL. **J Psychosoc Nurs Ment Health Serv** 1997 May;35(5):48–50

A crisis intervention program. Staff go the extra mile for client improvement. Liefland L, et al. **J Psychosoc Nurs Ment Health Serv** 1997 Feb;35(2):32–5

The impact of intensive case-managed intervention on substance-using pregnant and postpartum women. Lanehart RE, et al. **J Subst Abuse** 1996;8(4):487–95 (18 ref.)

Personality assessment of substance-dependent patients in a therapeutic community. Moffett LA, et al. **J Subst Abuse Treat** 1996 Mar-Apr;13(2):127–34

Enhancing substance abuse treatment with case management. Its impact on employment. Siegal HA, et al. **J Subst Abuse Treat** 1996 Mar-Apr;13(2):93–8

Utility of clinical pathway and prospective case management to achieve cost and hospital stay reduction for aortic aneurysm surgery at a tertiary care hospital. Muluk SC, et al. **J Vasc Surg** 1997 Jan;25(1):84–93

Medullary sponge kidney. Alvarado L, et al. **Kans Med** 1996 Summer-Fall;97(2):30–2

The role of "hospitalists" in the health care system [letter; comment] Epstein D. **N Engl J Med** 1997 Feb 6;336(6):444; discussion 445–6. Comment on: N Engl J Med 1996 Aug 15;335(7):514–7.

The role of "hospitalists" in the health care system [letter] Smith MI, et al. **N Engl J Med** 1997 Feb 6;336(6):445; discussion 445–6

Cost-effective treatment of asthma [see comments] Bielory L, et al. **N J Med** 1996 Mar;93(3):168–70. Comment in: N J Med 1996 Sep;93(9):10.

Neurocritical care for acute ischemic stroke. Hund E, et al. **Neurosurg Clin N Am** 1997 Apr;8(2):271–82 (87 ref.)

Case management: a method of addressing subject selection and recruitment issues. LaFazia MA, et al. **NIDA Res Monogr** 1996;166:52–67

Clinical case management assessment enables nurses to personalize a patient's care plan. Bischoff EK, et al. **Oncol Nurs Forum** 1997 Jul;24(6):965

The case management approach to work-related injuries. Brain GF, et al. **Orthop Clin North Am** 1996 Oct; 27(4):831–40 (19 ref.)

Sexual abuse and adolescents. Adams JA. **Pediatr Ann** 1997 May;26(5):299–304

Pediatric urinary tract infections. Batisky D. **Pediatr Ann** 1996 May;25(5):266, 269–76 (33 ref.)

Preparation for child abuse litigation: perspectives of the prosecutor and the pediatrician. Hanes M, et al. **Pediatr Ann** 1997 May;26(5):288–95

Management of nocturnal childhood enuresis in managed care: a new challenge. Ilyas M, et al. **Pediatr Ann** 1996 May;25(5):258, 261–4 (20 ref.)

Emergence and recovery from anesthesia for pediatrics patients in the post-anesthesia care unit. Lee B, et al. **Pediatr Ann** 1997 Aug;26(8):461–9 (19 ref.)

Common viral infections of the eye. Nakanishi AK, et al. **Pediatr Ann** 1996 Oct;25(10):542–4, 546–7, 550 passim (30 ref.)

The preoperative evaluation of the pediatric patient. Rasmussen GE. **Pediatr Ann** 1997 Aug;26(8):455–60 (15 ref.)

Hematuria. Roy S 3rd. **Pediatr Ann** 1996 May;25(5):284–7 (18 ref.)

Engaging significant others: the Tom Sawyer approach to case management. Kanter J. **Psychiatr Serv** 1996 Aug; 47(8):799–801 (20 ref.)

An experimental comparison of three types of case management for homeless mentally ill persons. Morse GA, et al. **Psychiatr Serv** 1997 Apr;48(4):497–503

Clients' functioning and need for case management. Muzekari LH, et al. **Psychol Rep** 1997 Feb;80(1):203–8

Case management quality assessment in rural areas of Papua New Guinea [letter; comment] San Sebastian M, et al. **Trop Doct** 1996 Oct;26(4):200. Comment on: Trop Doct 1995 Apr;25(2):69–74.

[Tasks of case managers in statutory accident insurance] Böhnert W. **Rehabilitation (Stuttg)** 1997 Feb;36(1):39–47 (Eng. Abstr.) **(Ger)**

ECONOMICS

Characteristics of hospitalizations for people with developmental disabilities: utilization, costs, and impact of care coordination. Walsh KK, et al. **Am J Ment Retard** 1997 Mar;101(5):505–20

Cost-effectiveness evaluation of three approaches to case management for homeless mentally ill clients. Wolff N, et al. **Am J Psychiatry** 1997 Mar;154(3):341–8

Problems in conducting economic evaluations alongside clinical trials. Lessons from a study of case management for people with mental disorders. Gray AM, et al. **Br J Psychiatry** 1997 Jan;170:47–52

Case management in psychiatric inpatient recapture. Carter AM. **Mil Med** 1997 Jan;162(1):44–50

Case management and managed care: investing in recovery. Kanter J, et al. **Psychiatr Serv** 1996 Jul;47(7):699–701

[The economic costs in the production of health services: from the cost of inputs to the cost of case management] Arredondo A, et al. **Salud Publica Mex** 1997 Mar-Apr; 39(2):117–24 (Eng. Abstr.) **(Spa)**

HISTORY

Case management: a rich history of coordinating care to control costs. Kersbergen AL. **Nurs Outlook** 1996 Jul-Aug; 44(4):169–72

LEGISLATION & JURISPRUDENCE

Judicial case management and the custody and access assessment: melding the approaches. Leverette J, et al. **Can J Psychiatry** 1997 Aug;42(6):649–55

Employee benefits. Caught in the middle. Ziegler J. **Hosp Health Netw** 1997 Jul 20;71(14):68

Pediatric practice and liability risk in a managed care environment. Hickson GB. **Pediatr Ann** 1997 Mar; 26(3):179–85

Early citizen review: does it make a difference? Jennings MA, et al. **Soc Work** 1996 Mar;41(2):224–31

ORGANIZATION & ADMINISTRATION

Negotiating barriers to intensive case management: the triple win model. Lieberman HJ, et al. **Adm Policy Ment Health** 1997 Jan;24(3):251–6

Barriers to disease management. Holdford DA. **Am J Health Syst Pharm** 1996 Sep 1;53(17):2093–6
Case management delivery model for pharmacy. Slack MK, et al. **Am J Health Syst Pharm** 1996 Dec 1;53(23):2860–7
Roles and functions of a case manager. Fisher T. **Am J Occup Ther** 1996 Jun;50(6):452–4
Primary care case management and birth outcomes in the Iowa Medicaid program. Schulman ED, et al. **Am J Public Health** 1997 Jan;87(1):80–4
Management and care of mentally ill mothers of young children: an innovative program. Mohit DL. **Arch Psychiatr Nurs** 1996 Feb;10(1):49–54
Integrated management of the sick child. **Bull World Health Organ** 1995;73(6):735–40
Severe illness in African children with diarrhoea: implications for case management strategies. Lee LA, et al. **Bull World Health Organ** 1995;73(6):779–85
Risk assessment in child protective services: a canonical analysis of the case management function. Jagannathan R, et al. **Child Abuse Negl** 1996 Jul;20(7):599–612
Beyond child development centres: care coordination for children with disabilities. Appleton PL, et al. **Child Care Health Dev** 1997 Jan;23(1):29–40
Enhancing investigative decisions in child welfare: an exploratory use of intensive family preservation services. Walton E. **Child Welfare** 1997 May–Jun;76(3):447–61
Managed health care's approach to infertility. Cohen A. **Clin Obstet Gynecol** 1997 Jun;40(2):420–6 (5 ref.)
Integrating and presenting clinical and treatment outcome data for cost-effective case management. Westberg EE, et al. **Comput Biol Med** 1997 Jan;27(1):31–47
Disability management in industry: the new paradigm in injured worker rehabilitation. Shrey DE. **Disabil Rehabil** 1996 Aug;18(8):408–14
Long-term follow-up in outpatient clinics. 1: The view from general practice. Reeve H, et al. **Fam Pract** 1997 Feb; 14(1):24–8
Long-term care case management: a look at alternative models. Applebaum R, et al. **Gerontologist** 1996 Oct; 36(5):701–5
Case manager–physician collaboration: implications for professional identity, roles, and relationships. Netting FE, et al. **Health Soc Work** 1996 Aug;21(3):216–24
Chronic care. A cure for emergencies that aren't. Appleby C. **Hosp Health Netw** 1996 Sep 20;70(18):37–8
Towards a model for hospital case-load decision support. Gove D, et al. **IMA J Math Appl Med Biol** 1995 Sep–Dec; 12(3–4):329–38
Controlling use of antimicrobial agents. Duncan RA. **Infect Control Hosp Epidemiol** 1997 Apr;18(4):260–6
Primary care case management for Medicaid recipients: evaluation of the Maryland Access to Care program. Schoenman JA, et al. **Inquiry** 1997 Summer;34(2):155–70
The introduction of case management on a rehabilitation floor. Waterman H, et al. **J Adv Nurs** 1996 Nov;24(5):960–7
Difficulties in evaluating abnormal lead screening results in children [see comments] Block B, et al. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):405–10. Comment in: J Am Board Fam Pract 1996 Nov–Dec;9(6):459–61.
An interdisciplinary, interagency, primary care approach to case management of the dually diagnosed patient with HIV disease. Snyder CM, et al. **J Assoc Nurses AIDS Care** 1996 Sep–Oct;7(5):72–82
Tumor board formats: "fascinating case" versus "working conference". Vetto JT, et al. **J Cancer Educ** 1996 Summer; 11(2):84–8
The advanced practice nurse: meeting the information needs of the rural cancer patient. White NJ, et al. **J Cancer Educ** 1996 Winter;11(4):203–9
The effect of a home-based, case-managed, multifactorial risk-reduction program on reducing psychological distress in patients with cardiovascular disease. Taylor CB, et al. **J Cardiopulm Rehabil** 1997 May–Jun;17(3):157–62
Patterns of services and consumer outcome in an intensive case management program. Ryan CS, et al. **J Consult Clin Psychol** 1997 Jun;65(3):485–93
Determinants of case selection at morning report [see comments] Ramratnam B, et al. **J Gen Intern Med** 1997 May;12(5):263–6. Comment in: J Gen Intern Med 1997 May;12(5):332–3.
Case management and clinical paths: strategies to support the perinatal experience. Bower KA. **J Obstet Gynecol Neonatal Nurs** 1997 May–Jun; 26(3):329–33 (6 ref.)
Partnership in chronic health care: care management as an integral part of the paediatric hospital system. O'Neill C, et al. **J Paediatr Child Health** 1997 Feb;33(1):4–6
Clinical guidelines for cystic fibrosis care. Summary of guidelines prepared by a working group of the Cystic Fibrosis Trust, the British Paediatric Association and the British Thoracic Society. Jackson A. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):305–8
Detection and management of pneumonia by community health workers--a community intervention study in Rehri village, Pakistan. Mehnaz A, et al. **JPMA J Pak Med Assoc** 1997 Feb;47(2):42–5
Combining case management, pathways, and report cards for secondary cardiac prevention. Levknecht L, et al. **Jt Comm J Qual Improv** 1997 Mar;23(3):162–74
Two levelled design of an unified paediatric health care encounter. Kokol P, et al. **Med Inf (Lond)** 1995 Jul–Sep; 20(3):199–208
Case managed mental health care in the San Antonio catchment area: the crisis-intervention unit. Farris PW. **Mil Med** 1997 Sep;162(9):628–35
Oncology nurses fill roles as nurse coordinator/case manager. Starcher S. **Oncol Nurs Forum** 1997 Jun;24(5):801
A pediatrician's view. Dangerous alliances [editorial] Altemeier WA 3rd. **Pediatr Ann** 1997 Mar;26(3):155–6, 159
Innovative approaches to child health information. Brayden RM, et al. **Pediatr Ann** 1997 Mar;26(3):194–9
Characteristics and activities of case managers in the RWJ Foundation Program on chronic mental illness. Ridgely MS, et al. **Psychiatr Serv** 1996 Jul;47(7):737–43
Effect of centralized intake on outcomes of substance abuse treatment [see comments] Rohrer JE, et al. **Psychiatr Serv** 1996 Nov;47(11):1233–8. Comment in: Psychiatr Serv 1997 Mar;48(3):401–2.
Comprehensive case management in the private sector for patients with severe mental illness. Vallon KR, et al. **Psychiatr Serv** 1997 Jul;48(7):910–4
Nursing case management and its role in perinatal risk reduction: development, implementation, and evaluation of a culturally competent model for African American women. Gonzalez-Calvo J, et al. **Public Health Nurs** 1997 Aug;14(4):190–206
Building castles and providing foundations [editorial] Graham KY, et al. **Public Health Nurs** 1996 Feb;13(1):1–2
Use of community resources by prenatal case managers. Issel LM. **Public Health Nurs** 1996 Feb;13(1):3–12
Case management at work for SSA disability beneficiaries: process results of the Project NetWork return-to-work demonstration. Leiter V, et al. **Soc Secur Bull** 1997; 60(1):29–48
[Cystic fibrosis in the adult (editorial)] Morales Marín P. **Arch Bronconeumol** 1997 Jan;33(1):1–3 **(Spa)**

STANDARDS

Psychosocial intervention following suicide attempt: a systematic review of treatment interventions. van der Sande R, et al. **Acta Psychiatr Scand** 1997 Jul;96(1):43–50 (33 ref.)
Panic disorder and addiction: the clinical issues of comorbidity. DuPont RL. **Bull Menninger Clin** 1997 Spring;61(2 Suppl A):A54–65
Psychiatric hospitalization decision making by CMHC staff. Hendryx MS, et al. **Community Ment Health J** 1997 Feb; 33(1):63–73
Evaluation of brain injury related behavioral disturbances in community mental health centers. McAllister TW. **Community Ment Health J** 1997 Aug;33(4):341–58; discussion 359–64 (96 ref.)
Pediatric peritonsillar abscess: management guidelines. Herzon FS, et al. **Curr Probl Pediatr** 1996 Sep;26(8):270–8 (45 ref.)
A critical appraisal of current management practices for infant regurgitation--recommendations of a working party. Vandenplas Y, et al. **Eur J Pediatr** 1997 May;156(5):343–57 (142 ref.)
Long-term follow-up in outpatient clinics. 2: The view from the specialist clinic. Burkey Y, et al. **Fam Pract** 1997 Feb; 14(1):29–33
AACAP Official Action. Summary of the practice parameters for the assessment and treatment of children, adolescents, and adults with ADHD. Dulcan MK, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1311–7
The DSM-IV Outline for Cultural Formulation: a critical demonstration with American Indian children. Novins DK, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep; 36(9):1244–51
A family medicine approach to the premature infant [see comments] Dresden SM. **J Am Board Fam Pract** 1997 Mar–Apr;10(2):117–24 (28 ref.). Comment in: J Am Board Fam Pract 1997 Jul–Aug;10(4):310.
Chronic illness in adolescents: transfer or transition to adult services? Sawyer SM, et al. **J Paediatr Child Health** 1997 Apr;33(2):88–90 (22 ref.)
The genetic aspects of medullary thyroid carcinoma: recognition and management. Williamson P, et al. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):443–7
Compliance, quality management and standards in the treatment of schizophrenia. Kissling W. **Neuropsychobiology** 1997;35(2):70–2
What is proper cancer care in the era of managed care? Monaco GP, et al. **Oncology (Huntingt)** 1997 Jan; 11(1):65–71; discussion 72, 78
Child, family, and system outcomes of intensive case management in New York State. Evans ME, et al. **Psychiatr Q** 1996 Winter;67(4):273–86
Effects of diagnosis, demographic characteristics, and case management on rehospitalization. D'Ercole A, et al. **Psychiatr Serv** 1997 May;48(5):682–8

STATISTICS & NUMERICAL DATA

A comparison of studies from the United States and western Europe on psychiatric hospitalization referrals for youths exhibiting suicidal behavior. Safer DJ. **Ann Clin Psychiatry** 1996 Sep;8(3):161–8 (142 ref.)
Variations in treatment of rectal cancer: the influence of hospital type and caseload. Simons AJ, et al. **Dis Colon Rectum** 1997 Jun;40(6):641–6
Physician attitudes toward managing obesity: differences among six specialty groups. Kristeller JL, et al. **Prev Med** 1997 Jul–Aug;26(4):542–9

TRENDS

Brain attack. The emergent management of hypertensive hemorrhage. Taylor CL, et al. **Neurosurg Clin N Am** 1997 Apr;8(2):237–44 (38 ref.)
Case management: two nations still divided [editorial] Burns T. **Psychiatr Serv** 1996 Aug;47(8):793

CASE MANAGEMENT, INSURANCE see **MANAGED CARE PROGRAMS**

CASE MIX see **DIAGNOSIS-RELATED GROUPS**

CASE-REFERENT STUDIES see **CASE-CONTROL STUDIES**

CASEINS

BODIPY-alpha-casein, a pH-independent protein substrate for protease assays using fluorescence polarization. Schade SZ, et al. **Anal Biochem** 1996 Dec 1;243(1):1–7
Pharmacokinetics of antipyrine in calves at neonatal period fed with casein supplemented food. Janus K. **Arch Vet Pol** 1994;34(3–4):287–96
The comparison of pepsin and trypsin action on goat, cow, mare and human caseins. Jasińska B. **Rocz Akad Med Bialymst** 1995;40(3):486–93

ADMINISTRATION & DOSAGE

Protein utilization during energy undernutrition in sheep sustained by intragastric infusion. Effect of body fatness on the protein metabolism of energy-restricted sheep. Chowdhury SA, et al. **Br J Nutr** 1997 Aug;78(2):273–82
Comparison of growth performance and nutrient retention of weaner pigs given diets based on casein, free amino acids or conventional proteins. Officer DI, et al. **Br J Nutr** 1997 May;77(5):731–44
Evaluation of pancreatic function development after hydrolyzed protein-based and soy-based formulas in unweaned infants. Carroccio A, et al. **Scand J Gastroenterol** 1997 Mar;32(3):273–7
[Sex-dependent differences in the action of chronically administered beta-casomorphin-7 on the behavior of white rat pups] Maklakova AS, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):610–3 **(Rus)**

ADVERSE EFFECTS

Anaphylaxis from cow's milk casein. Tabar AI, et al. **Allergy** 1996 May;51(5):343–5
Cooked casein promotes colon cancer in rats, may be because of mucosal abrasion. Corpet DE, et al. **Cancer Lett** 1997 Mar 19;114(1–2):89–90
Dietary cow's milk protein does not alter the frequency of diabetes in the BB rat. Malkani S, et al. **Diabetes** 1997 Jul; 46(7):1133–40
Milk-responsive atopic dermatitis is associated with a casein-specific lymphocyte response in adolescent and adult patients. Werfel T, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):124–33

ANALYSIS

Determination of denatured serum proteins in the casein fraction of heat-treated milk by capillary zone electrophoresis. Recio I, et al. **Electrophoresis** 1996 Jul; 17(7):1228–33
Capillary electrophoretic analysis of genetic variants of milk proteins from different species. Recio I, et al. **J Chromatogr A** 1997 Apr 18;768(1):47–56
PP3 component of bovine milk: a phosphorylated whey glycoprotein. Girardet JM, et al. **J Dairy Res** 1996 May; 63(2):333–50 (79 ref.)
Structural studies on casein micelles of human milk: dissociation of beta-casein of different phosphorylation levels induced by cooling and ethylenediaminetetraacetate. Sood SM, et al. **J Dairy Sci** 1997 Apr;80(4):628–33
[Characterization of pancreatic casein plasteins] Chr Lorenzen P, et al. **Nahrung** 1996 Feb;40(1):7–11 (Eng. Abstr.) **(Ger)**

BIOSYNTHESIS

Mammary protein synthesis is acutely regulated by the cellular hydration state. Millar ID, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):351–5
Stage specific expression of milk fat globule membrane glycoproteins in mouse mammary gland: comparison of MFG-E8, butyrophilin, and CD36 with a major milk protein, beta-casein. Aoki N, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):182–90
Brefeldin A differently affects basal and prolactin-stimulated milk protein secretion in lactating rabbit mammary epithelial cells. Pauloin A, et al. **Eur J Cell Biol** 1997 Apr; 72(4):324–36
Alterations of the physical characteristics of milk from transgenic mice producing bovine kappa-casein. Gutiérrez-Adán A, et al. **J Dairy Sci** 1996 May;79(5):791–9
Cloning, sequencing and functional analysis of a truncated cDNA encoding red deer prolactin receptor: an alternative tyrosine residue mediates beta-casein promoter activation.

Jabbour HN, et al. **Mol Cell Endocrinol** 1996 Oct 14; 123(1):17–26

Bovine beta–casein expressed in transgenic mouse milk is phosphorylated and incorporated into micelles. Hitchin E, et al. **Protein Expr Purif** 1996 May;7(3):247–52

Expression and characterization of phosphorylated recombinant human beta–casein in Escherichia coli. Thurmond JM, et al. **Protein Expr Purif** 1997 Jul; 10(2):202–8

CHEMICAL SYNTHESIS

Solid phase synthesis of two phosphorylated peptides related to casein using allyl phosphate protection, and their CD spectra. Larsson E, et al. **Acta Chem Scand** 1996 Nov; 50(11):1009–12

CHEMISTRY

Molecular mechanism of competitive adsorption of alpha s1–casein and beta–casein at liquid interfaces. Damodaran S. **Adv Exp Med Biol** 1997;415:117–26

Method for the extraction of riboflavin for high–performance liquid chromatography and application to casein. Hewavitharana AK. **Analyst** 1996 Nov;121(11):1671–6

Identification of a novel opioid peptide (Tyr–Val–Pro–Phe–Pro) derived from human alpha S1 casein (alpha S1–casomorphin, and alpha S1–casomorphin amide). Kampa M, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):903–8

Role of the O–phosphoserine clusters in the interaction of the bovine milk alpha s1–, beta–, kappa–caseins and the PP3 component with immobilized iron (III) ions. Bernos E, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):149–59

Nuclear magnetic resonance study of the conformation and dynamics of beta–casein at the oil/water interface in emulsions. ter Beek LC, et al. **Biophys J** 1996 May; 70(5):2396–402

Oxidation of bovine beta–casein by hypochlorite. Yang CY, et al. **Free Radic Biol Med** 1997;22(7):1235–40

Effect of non–meat proteins, soy protein isolate and sodium caseinate, on the textural properties of chicken bologna. Yusof SC, et al. **Int J Food Sci Nutr** 1996 Jul;47(4):323–9

Reversed–phase high–performance liquid chromatographic separation of bovine kappa–casein macropeptide and characterization of isolated fractions. Minikiewicz P, et al. **J Chromatogr A** 1996 Aug 30;743(1):123–35

Solution conformation of a peptide corresponding to bovine kappa–casein B residues 130–153 by circular dichroism spectroscopy and 1H–nuclear magnetic resonance spectroscopy. Plowman JE, et al. **J Dairy Res** 1997 Aug; 64(3):377–97

Interactions of amphiphilic peptides derived from alpha s2–casein with calmodulin. Kizawa K, et al. **J Dairy Sci** 1996 Oct;79(10):1728–33

Identification of an antihypertensive peptide from casein hydrolysate produced by a proteinase from Lactobacillus helveticus CP790. Maeno M, et al. **J Dairy Sci** 1996 Aug; 79(8):1316–21

Characterization of phosphate sites in native ovine, caprine, and bovine casein micelles and their caseinomacropeptides: a solid–state phosphorus–31 nuclear magnetic resonance and sequence and mass spectrometric study. Rasmussen LK, et al. **J Dairy Sci** 1997 Apr;80(4):607–14

Structural studies on casein micelles of human milk: dissociation of beta–casein of different phosphorylation levels induced by cooling and ethylenediaminetetraacetate. Sood SM, et al. **J Dairy Sci** 1997 Apr;80(4):628–33

Monomer characterization and studies of self–association of the major beta–casein of human milk. Sood SM, et al. **J Dairy Sci** 1997 Aug;80(8):1554–60

Behavior of calcium and phosphate in artificial casein micelles. Zhang ZP, et al. **J Dairy Sci** 1996 Oct; 79(10):1722–27

Binding ability of Cu2+ ions by opiate–like fragments of bovine casein. Chruścińska E, et al. **J Inorg Biochem** 1997 Apr;66(1):19–22

In vitro analysis of the release of incorporated agents from sodium caseinate microspheres. Heelan BA, et al. **J Microencapsul** 1997 Jan–Feb;14(1):63–78

The epsilon–(gamma–glutamyl)lysine moiety in crosslinked casein is an available source of lysine for rats. Seguro K, et al. **J Nutr** 1996 Oct;126(10):2557–62

Particle sizes of purified kappa–casein: metal effect and correspondence with predicted three–dimensional molecular models. Farrell HM Jr, et al. **J Protein Chem** 1996 Jul;15(5):435–45

Semi–preparative isolation of phosphopeptides derived from bovine casein and dephosphorylation of casein phosphopeptides. Goepfert A, et al. **Nahrung** 1996 Oct; 40(5):245–8

Quantitative comparison of casein and rapeseed proteolysis by pancreatin. Vorob'ev MM, et al. **Nahrung** 1996 Oct; 40(5):248–55

Interaction of alpha s2– and beta–casein signal peptides with DMPC and DMPG liposomes. Creuzenet C, et al. **Peptides** 1997;18(4):463–72

Identification of casoxin C, an ileum–contracting peptide derived from bovine kappa–casein, as an agonist for C3a receptors. Takahashi M, et al. **Peptides** 1997;18(3):329–36

Expression and characterization of phosphorylated recombinant human beta–casein in Escherichia coli. Thurmond JM, et al. **Protein Expr Purif** 1997 Jul; 10(2):202–8

GENETICS

Detection of a new kappa–casein variant in milk of Pinzgauer cattle. Erhardt G. **Anim Genet** 1996 Apr;27(2):105–7

A BalI RFLP at the goat beta–casein gene. Pappalardo M, et al. **Anim Genet** 1996 Apr;27(2):123–4

Molecular genetic characterization of new bovine kappa–casein alleles CSN3F and CSN3G and genotyping by PCR–RFLP. Prinzenberg EM, et al. **Anim Genet** 1996 Oct;27(5):347–9

An efficient expression of human growth hormone (hGH) in the milk of transgenic mice using rat beta–casein/hGH fusion genes Lee CS, et al. **Appl Biochem Biotechnol** 1996 Mar;56(3):211–22

Exon skipping in the ovine alpha s1–casein gene. Passey R, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Aug;114(4):389–94

Physical mapping of the murine casein locus reveals the gene order as alpha–beta–gamma–epsilon–kappa. George S, et al. **DNA Cell Biol** 1997 Apr;16(4):477–84

Prolactin–dependent growth and gamma–casein gene expression in Ba/F3 cells transfected with a long form of mouse mammary prolactin receptor. Sasaki M, et al. **Endocr J** 1996 Feb;43(1):45–52

Structure of the rabbit kappa–casein encoding gene: expression of the cloned gene in the mammary gland of transgenic mice. Baranyi M, et al. **Gene** 1996 Sep 26; 174(1):27–34

Structure of the human kappa–casein gene. Edlund A, et al. **Gene** 1996 Sep 26;174(1):65–9

Genomic organization and chromosomal localization of the human casein gene family. Fujiwara Y, et al. **Hum Genet** 1997 Mar;99(3):368–73

Promoter–dependent synergy between glucocorticoid receptor and Stat5 in the activation of beta–casein gene transcription. Lechner J, et al. **J Biol Chem** 1997 Aug 15; 272(33):20954–60

Lactogenic hormone activation of Stat5 and transcription of the beta–casein gene in mammary epithelial cells is independent of p42 ERK2 mitogen–activated protein kinase activity. Wartmann M, et al. **J Biol Chem** 1996 Dec 13; 271(50):31863–8

Physical map and localization of the human casein gene locus. Rijnkels M, et al. **Mamm Genome** 1997 Apr;8(4):285–6

Organization of the bovine casein gene locus. Rijnkels M, et al. **Mamm Genome** 1997 Feb;8(2):148–52

Structure and expression of the mouse casein gene locus. Rijnkels M, et al. **Mamm Genome** 1997 Jan;8(1):9–15

Evidence from milk casein genes that cetaceans are close relatives of hippopotamid artiodactyls. Gatesy J, et al. **Mol Biol Evol** 1996 Sep;13(7):954–63

Cloning, sequencing and functional analysis of a truncated cDNA encoding red deer prolactin receptor: an alternative tyrosine residue mediates beta–casein promoter activation. Jabbour HN, et al. **Mol Cell Endocrinol** 1996 Oct 14; 123(1):17–26

The short form of the prolactin (PRL) receptor silences PRL induction of the beta–casein gene promoter. Berlanga JJ, et al. **Mol Endocrinol** 1997 Sep;11(10):1449–57

K–casein gene phylogeny of higher ruminants (Pecora, Artiodactyla). Cronin MA, et al. **Mol Phylogenet Evol** 1996 Oct;6(2):295–311

Transgene expression in mammary glands of newborn rats. Hirabayashi M, et al. **Mol Reprod Dev** 1996 Feb;43(2):145–9

Expression of the human milk protein beta–casein in transgenic potato plants. Chong DK, et al. **Transgenic Res** 1997 Jul;6(4):289–96

Mammary gland–specific hypomethylation of Hpa II sites flanking the bovine alpha S1–casein gene. Platenburg GJ, et al. **Transgenic Res** 1996 Nov;5(6):421–31

Bovine alpha s1–casein gene sequences direct high level expression of human granulocyte–macrophage colony–stimulating factor in the milk of transgenic mice. Uusi–Oukari M, et al. **Transgenic Res** 1997 Jan;6(1):75–84

[Analysis of nonrandom associations of alleles in four milk protein loci in populations of the Yaroslavl cattle breed] Bannikova LV, et al. **Genetika** 1996 Nov;32(11):1569–75 (Eng. Abstr.) **(Rus)**

[Polymorphism of the kappa–casein gene in populations of the subfamily Bovinae] Sulimova GE, et al. **Genetika** 1996 Nov;32(11):1576–82 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Identification of casein as the major allergenic and antigenic protein of cow's milk. Docena GH, et al. **Allergy** 1996 Jun; 51(6):412–6

Allergenicity of alpha–caseins from cow, sheep, and goat. Spuergin P, et al. **Allergy** 1997 Mar;52(3):293–8

Allergenic epitopes of bovine alpha S1–casein recognized by human IgE and IgG. Spuergin P, et al. **Allergy** 1996 May;51(5):306–12

Anaphylaxis from cow's milk casein. Tabar AI, et al. **Allergy** 1996 May;51(5):343–5

Monoclonal and polyclonal antibodies against casein components of cow milk for evaluation of residual antigenic activity in 'hypoallergenic' infant formulas. Plebani A, et al. **Clin Exp Allergy** 1997 Aug;27(8):949–56

A lamb–meat–based formula for infants allergic to casein hydrolysate formulas. Weisselberg B, et al. **Clin Pediatr (Phila)** 1996 Oct;35(10):491–5

Immunological aspects of nutritional diabetes prevention in NOD mice: a pilot study for the cow's milk–based IDDM prevention trial. Karges W, et al. **Diabetes** 1997 Apr; 46(4):557–64

Modulation of immune responses by bovine beta–casein. Wong CW, et al. **Immunol Cell Biol** 1996 Aug;74(4):323–9

Synthesis and immunostimulant activity of novel analogs of human casein fragment (54–59). Sahai R, et al. **Immunopharmacol Immunotoxicol** 1996 Nov;18(4):511–28

Cell–mediated immune response to beta casein in recent–onset insulin–dependent diabetes: implications for disease pathogenesis [see comments] [published erratum appears in Lancet 1996 Nov 16;348(9038):1392] Cavallo MG, et al. **Lancet** 1996 Oct 5;348(9032):926–8. Comment in: Lancet 1996 Oct 5;348(9032):905. Comment in: Lancet 1996 Dec 14;348(9042):1655. Comment in: Lancet 1996 Dec 14;348(9042):1656. Comment in: Lancet 1996 Dec 14;348(9042):1657.

Diabetes and cows' milk. Sardinian IDDM Study Groups [letter; comment] Elliot RB, et al. **Lancet** 1996 Dec 14; 348(9042):1657. Comment on: Lancet 1996 Oct 5;348(9032):926–8.

Diabetes and cows' milk [letter; comment] Gray DW. **Lancet** 1996 Dec 14;348(9042):1655. Comment on: Lancet 1996 Oct 5;348(9032):926–8.

Cow's milk and IDDM [comment] [see comments] Harrison LC. **Lancet** 1996 Oct 5;348(9032):905–6. Comment on: Lancet 1996 Oct 5;348(9032):926–8. Comment in: Lancet 1996 Dec 14;348(9042):1656–7.

Immune response to beta casein in insulin–dependent diabetes mellitus. Arya V, et al. **Natl Med J India** 1997 May–Jun; 10(3):127–8

Pseudoallergic skin reactions to opiate sequences of bovine casein in healthy children. Kurek M, et al. **Rocz Akad Med Bialymst** 1995;40(3):480–5

ISOLATION & PURIFICATION

Reversed–phase high–performance liquid chromatographic separation of bovine kappa–casein macropeptide and characterization of isolated fractions. Minikiewicz P, et al. **J Chromatogr A** 1996 Aug 30;743(1):123–35

A method for isolating beta–casein. Ward LS, et al. **J Dairy Sci** 1996 Aug;79(8):1332–9

METABOLISM

Synthesis and activity of N epsilon–aminocaproyl–L–norleucine derivatives. Midura–Nowaczek K, et al. **Acta Pol Pharm** 1996 May–Jun; 53(3):221–3

Specificity of an extracellular proteinase from Brevibacterium linens ATCC 9174 on bovine beta–casein. Rattray FP, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2468–71

Identification of a novel opioid peptide (Tyr–Val–Pro–Phe–Pro) derived from human alpha S1 casein (alpha S1–casomorphin, and alpha S1–casomorphin amide). Kampa M, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):903–8

Binding of the bovine caseinoglycopeptide to the platelet membrane glycoprotein GPIb alpha. Chabance B, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):77–84

Action on bovine alpha s1–casein of cardosins A and B, aspartic proteinases from the flowers of the cardoon Cynara cardunculus L. Ramalho–Santos M, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):83–9

Casein and peptide degradation in lactic acid bacteria. Mierau I, et al. **Biotechnol Genet Eng Rev** 1997;14:279–301 (125 ref.)

Protein utilization during energy undernutrition in sheep sustained by intragastric infusion. Effect of body fatness on the protein metabolism of energy–restricted sheep. Chowdhury SA, et al. **Br J Nutr** 1997 Aug;78(2):273–82

Rat liver Golgi apparatus contains a protein kinase similar to the casein kinase of lactating mammary gland. Lasa M, et al. **Eur J Biochem** 1997 Feb 1;243(3):719–25

15N enrichments of casein and plasma protein amino acids in cows ingesting 15N–labelled ammonium sulphate. Casseron F, et al. **J Dairy Res** 1997 Aug;64(3):367–76

Phosphopeptides interacting with colloidal calcium phosphate isolated by tryptic hydrolysis of bovine casein micelles. Gagnaire V, et al. **J Dairy Res** 1996 Aug; 63(3):405–22

Immunomodulatory activity of beta–casein permeate medium fermented by lactic acid bacteria. Laffineur E, et al. **J Dairy Sci** 1996 Dec;79(12):2112–20

Incorporation of caseinoglycomacropeptide and caseinophosphopeptide into the salivary pellicle inhibits adherence of mutans streptococci. Schüpbach P, et al. **J Dent Res** 1996 Oct;75(10):1779–88

Distribution of casein–like proteins in various organs of rat. Onoda M, et al. **J Histochem Cytochem** 1997 May; 45(5):663–74

Binding ability of Cu2+ ions by opiate–like fragments of bovine casein. Chruścińska E, et al. **J Inorg Biochem** 1997 Apr;66(1):19–22

Binding affinity of proteins to hsp90 correlates with both hydrophobicity and positive charges. A surface plasmon resonance study. Csermely P, et al. **Life Sci** 1997; 61(4):411–8

Presence of casein immunoreactive epitopes in molluscs, fish and frog. Franchini A, et al. **Life Sci** 1996;59(22):1891–8

Characterization of a nuclear factor that enhances DNA

binding activity of SSCRE-BP/PUR alpha, a single-stranded DNA binding protein. Ding Y, et al. **Neurochem Int** 1997 Jul;31(1):45–54

Identification of casoxin C, an ileum-contracting peptide derived from bovine kappa-casein, as an agonist for C3a receptors. Takahashi M, et al. **Peptides** 1997;18(3):329–36

Breakdown of peptides from a casein hydrolysate by rumen bacteria. Simultaneous study of enzyme activities and physicochemical parameters. Depardon N, et al. **Reprod Nutr Dev** 1996;36(5):457–66

In vitro hydrolysis of gliadin and casein peptides: secondary defect in coeliac disease shown by organ culture. Walz f, et al. **Scand J Gastroenterol** 1996 Mar;31(3):240–6

Expression of the human milk protein beta-casein in transgenic potato plants. Chong DK, et al. **Transgenic Res** 1997 Jul;6(4):289–96

Mammary gland-specific hypomethylation of Hpa II sites flanking the bovine alpha S1-casein gene. Platenburg GJ, et al. **Transgenic Res** 1996 Nov;5(6):421–31

PHARMACOLOGY

Effects of diet enrichment with glucose and casein on blood cortisol concentration of calves in early postnatal period. Friedrich M. **Arch Vet Pol** 1995;35(1–2):117–25

Identification of a novel opioid peptide (Tyr-Val-Pro-Phe-Pro) derived from human alpha S1 casein (alpha S1-casomorphin, and alpha S1-casomorphin amide). Kampa M, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):903–8

Effect of casein phospho peptides and Ca2+ on penetration of boar spermatozoa into pig oocytes matured in vitro. Mori T, et al. **Biol Reprod** 1996 Aug;55(2):364–9

Elimination of sequence ambiguities by a single-step modification of a solid-phase, single-stranded sequencing protocol. Lawson VA, et al. **Biotechniques** 1996 Sep; 21(3):356–8

Antimutagenic activity of casein against MNNG in the E. coli DNA repair host-mediated assay. van Boekel MA, et al. **Cancer Lett** 1997 Mar 19;114(1–2):85–7

Detection of a kappa-casein-specific lymphocyte response in milk-responsive atopic dermatitis. Werfel T, et al. **Clin Exp Allergy** 1996 Dec;26(12):1380–6

Antiproliferative and receptor binding properties of alpha- and beta-casomorphins in the T47D human breast cancer cell line. Hatzoglou A, et al. **Eur J Pharmacol** 1996 Aug 29;310(2–3):217–23

Synthesis and immunostimulant activity of novel analogs of human casein fragment (54–59). Sahai R, et al. **Immunopharmacol Immunotoxicol** 1996 Nov;18(4):511–28

The effect of abomasal infusion of casein and recombinant somatotropin hormone injection on nitrogen balance and amino acid fluxes in portal-drained viscera and net hepatic and total splanchnic blood in Holstein steers. Bruckental I, et al. **J Anim Sci** 1997 Apr;75(4):1119–29

Homoarginine influences voluntary feed intake, tissue basic amino acid concentrations and arginase activity in chickens. Angkanaporn K, et al. **J Nutr** 1997 Jun;127(6):1128–36

Inhibition of beta-glucuronidase by casein hydrolysate formula. Gourley GR, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):267–72

Casein phosphopeptides improve zinc and calcium absorption from rice-based but not from whole-grain infant cereal. Hansen M, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan; 24(1):56–62

Inhibition of bovine trypsin by the phosphorylated N-terminal part beta(1–105) of beta-casein. Bouhallab S, et al. **J Pept Res** 1997 Jan;49(1):23–7

The effect of casein phosphopeptides on zinc and calcium absorption from high phytate infant diets assessed in rat pups and Caco-2 cells. Hansen M, et al. **Pediatr Res** 1996 Oct;40(4):547–52

Identification of casoxin C, an ileum-contracting peptide derived from bovine kappa-casein, as an agonist for C3a receptors. Takahashi M, et al. **Peptides** 1997;18(3):329–36

Kappa-casein suppresses melanogenesis in cultured pigment cells. Nakajima M, et al. **Pigment Cell Res** 1996 Oct; 9(5):235–9

Effect of kappa-casein split peptides on platelet aggregation and on thrombus formation in the guinea-pig. Bal dit Sollier C, et al. **Thromb Res** 1996 Feb 15;81(4):427–37

Casein effects on the myeloperoxidase-mediated oxygen-dependent bactericidal activity of bovine neutrophils. Cooray R. **Vet Immunol Immunopathol** 1996 May;51(1–2):55–65

[Effect of casein on D-xylose absorption assessed by H2 breath test] Defilippi C, et al. **Rev Med Chil** 1995 Sep; 123(9):1071–6 (Eng. Abstr.) **(Spa)**

[Effects of casein on small intestine motility in patients with liver cirrhosis] Madrid AM, et al. **Rev Med Chil** 1996 Feb; 124(2):171–7 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Remineralization of enamel subsurface lesions by casein phosphopeptide-stabilized calcium phosphate solutions. Reynolds EC. **J Dent Res** 1997 Sep;76(9):1587–95

CASSAVA

Effect of protein supplemented cassava diet in rats. Sreeja VG, et al. **Indian J Biochem Biophys** 1996 Apr;33(2):149–51

ADVERSE EFFECTS

Milling reduces the goitrogenic potential of cassava. Mlingi ML, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):445–54

CHEMISTRY

Agricultural and food policies. Some concerns regarding their nutritional relevance. Arroyave G. **Arch Latinoam Nutr** 1995 Mar;45(1):12–8

Effect of traditional processing of cassava on the cyanide content of gari and cassava flour. Kemdirim OC, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):335–9

Enzyme inhibitors in tuber crops and their thermal stability. Prathibha S, et al. **Plant Foods Hum Nutr** 1995 Oct; 48(3):247–57

ENZYMOLOGY

Enantioselective synthesis of aliphatic (S)-cyanohydrins in organic solvents using hydroxynitrile lyase from Manihot esculenta. Wajant H, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:771–6

Properties of alpha-hydroxynitrile lyase from the petiole of cassava (Manihot esculenta Crantz). Chueskul S, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):401–5

Characterization of linamarase of latex and its localization in petioles in cassava. Elias M, et al. **Arch Biochem Biophys** 1997 May 15;341(2):222–8

Effect of cassavar cultivar, age and pretreatment processes of cellulase and xylanase production from cassava waste by Trichoderma harzianum. Onilude AA. **J Basic Microbiol** 1996;36(6):421–31

MICROBIOLOGY

Lactic acid fermentation of cassava dough into agbelima. Amoa-Awua WK, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):87–98

Effect of cassavar cultivar, age and pretreatment processes of cellulase and xylanase production from cassava waste by Trichoderma harzianum. Onilude AA. **J Basic Microbiol** 1996;36(6):421–31

VIROLOGY

Evidence that DNA-A of a geminivirus associated with severe cassava mosaic disease in Uganda has arisen by interspecific recombination. Zhou X, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2101–11

Isolation and expression in transgenic tobacco and rice plants, of the cassava vein mosaic virus (CVMV) promoter. Verdaguer B, et al. **Plant Mol Biol** 1996 Sep;31(6):1129–39

CASSIA

see related
SENNA

CHEMISTRY

Assessment of cassia gum. Hallagan JB, et al. **Food Chem Toxicol** 1997 Jun;35(6):625–32 (35 ref.)

Some effects of Cassia italica on the central nervous system in mice. Ali BH, et al. **J Pharm Pharmacol** 1997 May; 49(5):500–4

CASTE see **SOCIAL CLASS**

CASTLEMAN'S DISEASE see **GIANT LYMPH NODE HYPERPLASIA**

CASTLEMAN'S TUMOR see **GIANT LYMPH NODE HYPERPLASIA**

CASTOR see **RODENTIA**

CASTOR BEAN

see related
CASTOR OIL

ANATOMY & HISTOLOGY

Correlation-peak imaging. Ziegler A, et al. **J Magn Reson B** 1996 Aug;112(2):141–50

ENZYMOLOGY

Activation of phospholipase D and the possible mechanism of activation in wound-induced lipid hydrolysis in castor bean leaves. Ryu SB, et al. **Biochim Biophys Acta** 1996 Oct 18;1303(3):243–50

Crystal structure of delta9 stearoyl-acyl carrier protein desaturase from castor seed and its relationship to other di-iron proteins. Lindqvist Y, et al. **EMBO J** 1996 Aug 15;15(16):4081–92

An aspartic endopeptidase is involved in the breakdown of propeptides of storage proteins in protein-storage vacuoles of plants. Hiraiwa N, et al. **Eur J Biochem** 1997 May 15; 246(1):133–41

Accumulation of ricinoleic, lesquerolic, and densipolic acids in seeds of transgenic Arabidopsis plants that express a fatty acyl hydroxylase cDNA from castor bean. Broun P, et al. **Plant Physiol** 1997 Mar;113(3):933–42

GENETICS

Cloning and characterization of the calreticulin gene from Ricinus communis L. Coughlan SJ, et al. **Plant Mol Biol** 1997 Aug;34(6):897–911

Structure and analysis of phospholipase D gene from Ricinus communis L. Xu L, et al. **Plant Mol Biol** 1996 Nov; 32(4):767–71

IMMUNOLOGY

Specific IgE to castor bean (Ricinus communis) pollen in the sera of clinically sensitive patients to seeds. Singh A, et al. **J Investig Allergol Clin Immunol** 1997 May-Jun; 7(3):169–74

METABOLISM

Binding of the peroxisomal targeting sequence SKL is specified by a low-affinity site in castor bean glyoxysomal membranes. A domain next to the SKL binds to a high-affinity site. Wolins NE, et al. **Plant Physiol** 1997 Mar; 113(3):943–9

CASTOR BEAN LECTIN see **RICIN**

CASTOR OIL

The non-peptide tachykinin NK1- and NK2-receptor antagonists SR 140333 and SR 48968 prevent castor-oil induced diarrhea in rats. Croci T, et al. **Acta Physiol Hung** 1996;84(3):273–4

Evidence for possible involvement of guanylate cyclase in diarrhoea induced by castor oil in mice [letter] Robert FS, et al. **J Diarrhoeal Dis Res** 1996 Sep;14(3):218–9

ADMINISTRATION & DOSAGE

[Ricinus oil for labor induction] Lippert TH. **Z Geburtshilfe Neonatol** 1997 Mar-Apr;201(2):73 **(Ger)**

ADVERSE EFFECTS

Contact dermatitis from castor oil in zinc and castor oil cream. Wakelin SH, et al. **Contact Dermatitis** 1996 Oct; 35(4):259

Castor-oil induced diarrhoea in ponies: a model for acute colitis. Roberts MC, et al. **Equine Vet J Suppl** 1989 Jun; (7):60–7

Laxative induced hypoalbuminemia [letter] Jayaprakash DG, et al. **Indian Pediatr** 1995 Sep;32(9):1037–8

ANALOGS & DERIVATIVES

Enhanced tumor delivery and antitumor activity of palmitoyl rhizoxin using stable lipid emulsions in mice. Kurihara A, et al. **Pharm Res** 1996 Feb;13(2):305–10

PHARMACOLOGY

Relationship between nitric oxide and platelet-activating factor in castor-oil induced mucosal injury in the rat duodenum. Mascolo N, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):680–4

THERAPEUTIC USE

Efficacy of barrier creams. Grunewald AM, et al. **Curr Probl Dermatol** 1995;23:187–97

TOXICITY

Role of tachykinins in castor oil diarrhoea in rats. Croci T, et al. **Br J Pharmacol** 1997 Jun;121(3):375–80

CASTRATION

Comparison of the effects of 17 alpha-methyltestosterone, methandrostenolone, and nandrolone decanoate on the sexual behavior of castrated male rats. Clark AS, et al. **Behav Neurosci** 1996 Dec;110(6):1478–86

Balance between opposite effects of short day stimulation and testicular steroid feedback inhibition on pituitary pulsatile LH release in male mink, Mustela vison. Jallageas M, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Sep;115(1):27–32

Brain organization in a reptile lacking sex chromosomes: effects of gonadectomy and exogenous testosterone. Crews D, et al. **Horm Behav** 1996 Dec;30(4):474–86

Effects of 8-OH-DPAT on sexual behavior of male rats castrated at different ages. Rasia-Filho AA, et al. **Horm Behav** 1996 Sep;30(3):251–8

Short- and long-term effects of testosterone on diaphragm in castrated and normal male rats. Prezant DJ, et al. **J Appl Physiol** 1997 Jan;82(1):134–43

Activational effects of gonadal steroids on hypothalamo-pituitary-adrenal regulation in the rat disclosed by response to dexamethasone suppression. Almeida OF, et al. **J Neuroendocrinol** 1997 Feb;9(2):129–34

Anti-angiogenic treatment with linomide as adjuvant to surgical castration in experimental prostate cancer. Hartley-Asp B, et al. **J Urol** 1997 Sep;158(3 Pt 1):902–7

Attenuating effect of castration on glomerular injury is age-dependent in unilaterally nephrectomized male Sprague-Dawley rats. Sakemi T, et al. **Nephron** 1997;

ISBN 0-16-049542-3